

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	Network Platform
Brand Name:	N/A
Model No.:	FWA-1010VC, FWA-1010XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Model Difference:	Market different
FCC ID:	M82-FWA-1010
Report No.:	E2/2017/50066
Issue Date:	Jul. 25, 2017
FCC Rule Part:	2 , 22H & 24E & 27B, C & L & 90S
Prepared for:	Advantech Co., Ltd No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant:	Advantech Co., Ltd No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.
Product Name:	Network Platform
Brand Name:	N/A
Model No.:	FWA-1010VC, FWA-1010XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Model Difference:	Market different
FCC ID:	M82-FWA-1010
File Number:	E2/2017/50066
Date of test:	May 17, 2017 ~ Jul. 25, 2017
Date of EUT Received:	May 17, 2017

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 TIA/EIA-603-D-2010 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.

Test By:	Aken Huang	Date	Jul. 21, 2017
Prepared By:	Aken Huang / Engineer Tiffany Kan		Jul. 21, 2017
	Tiffany Kao / Clerk		
Approved By	Jim Chang	Date	Jul. 21, 2017
	Jim Chang / Asst. Manager		



Revision History

Report Number	Revision	Description	Issue Date
E2/2017/50066	Rev.00	Initial creation of document	Jul. 21, 2017



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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Network Platform		
Brand Name:	N/A		
Model No.:	FWA-1010VC, FWA-1010XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Model difference:	Market different		
Hardware Version:	N/A		
Software Version:	N/A		
	12V from AC/DC Adapter		
Power Supply:	Adapter: Model No.: FSP060-DIBAN2 Supplier: FSP GROUP INC.		



WCDMA / LTE:

	Operating Frequency	Rated Power	
	WCDMA / HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA / HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	LTE-Band 2 (1.4MHz)	1850.7MHz- 1909.3MHz	23dBm
	LTE-Band 2 (3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (1.4MHz)	1710.7MHz- 1754.3MHz	23dBm
	LTE-Band 4 (3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (5MHz)	1712.5MHz – 1752.5MHz	23dBm
Collular Dhana	LTE-Band 4 (10MHz)	1715MHz – 1750MHz	23dBm
Cellular Phone Standards Fre-	LTE-Band 4 (15MHz)	1717.5MHz – 1747.5MHz	23dBm
quency Range and	LTE-Band 4 (20MHz)	1720MHz – 1745MHz	23dBm
Power	LTE-Band 5 (1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (3MHz)	825.5MHz – 847.5MHz	23dBm
	LTE-Band 5 (5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 7 (5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (20MHz)	2510.0MHz – 2560MHz	23dBm
	LTE-Band 12 (1.4MHz)	699.7MHz- 715.3MHz	23dBm
	LTE-Band 12 (3MHz)	700.5MHz – 714.5MHz	23dBm
	LTE-Band 12 (5MHz)	701.5MHz – 713.5MHz	23dBm
	LTE-Band 12 (10MHz)	704.0MHz – 711.0MHz	23dBm
	LTE-Band 13 (5MHz)	779.5MHz - 784.5MHz	23dBm
	LTE-Band 13 (10MHz)	782.0MHz	23dBm



	Operating Frequency		Rated Power
	LTE-Band 25 (1.4MHz)	1850.7MHz- 1914.3MHz	23dBm
	LTE-Band 25 (3MHz)	1851.5MHz – 1913.5MHz	23dBm
	LTE-Band 25 (5MHz)	1852.5MHz – 1912.5MHz	23dBm
	LTE-Band 25 (10MHz)	1855.0MHz – 1910.0MHz	23dBm
	LTE-Band 25 (15MHz)	1857.5MHz – 1907.5MHz	23dBm
	LTE-Band 25 (20MHz)	1860.0MHz – 1905.0MHz	23dBm
	LTE-Band 26 (1.4MHz) (for Part 90S)	814.7 MHz– 823.3 MHz	23dBm
	LTE-Band 26 (3MHz) (for Part 90S)	815.5 MHz– 822.5 MHz	23dBm
Cellular Phone Standards Fre-	LTE-Band 26 (5MHz) (for Part 90S)	816.5 MHz– 822.5 MHz	23dBm
quency Range and Power	LTE-Band 26 (10MHz) (for Part 90S)	819.0 MHz– 819.0 MHz	
	LTE-Band 26 (1.4MHz)	824.7 MHz– 848.3 MHz	23dBm
	LTE-Band 26 (3MHz)	825.5 MHz– 847.5 MHz	23dBm
	LTE-Band 26 (5MHz)	826.5 MHz– 846.5 MHz	23dBm
	LTE-Band 26 (10MHz)	829.0 MHz– 844.0 MHz	23dBm
	LTE-Band 26 (15MHz)	831.5 MHz– 841.5 MHz	23dBm
	LTE-Band 30 (5MHz)	2307.5 MHz– 2312.5 MHz	23dBm
	LTE-Band 30 (10MHz)	2310 MHz	23dBm
	LTE-Band 41 (5MHz)	2547.5MHz – 2652.5MHz	23dBm
	LTE-Band 41 (10MHz)	2550.0MHz – 2650.0MHz	23dBm
	LTE-Band 41 (15MHz)	2552.5MHz – 2647.5MHz	23dBm
	LTE-Band 41 (20MHz)	2555.0MHz – 2645.0MHz	23dBm
IMEI:	359072060296809		

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Type of Emission:

Frequency Band	Type of Emission:
WCDMA Band II	4M16F9W
HSDPA Band II	4M16F9W
HSUPA Band II	4M14F9W
WCDMA Band V	4M15F9W
HSDPA Band V	4M14F9W
HSUPA Band V	4M14F9W

LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 2	1.4MHz	QPSK	1M09G7D
LTE Band 2	1.4MHz	16QAM	1M10D7W
LTE Band 2	3MHz	QPSK	2M70G7D
LTE Band 2	3MHz	16QAM	2M70D7W
LTE Band 2	5MHz	QPSK	4M50G7D
LTE Band 2	5MHz	16QAM	4M50D7W
LTE Band 2	10MHz	QPSK	9M01G7D
LTE Band 2	10MHz	16QAM	8M97D7W
LTE Band 2	15MHz	QPSK	13M5G7D
LTE Band 2	15MHz	16QAM	13M5D7W
LTE Band 2	20MHz	QPSK	18M0G7D
LTE Band 2	20MHz	16QAM	18M0D7W
LTE Band 4	1.4MHz	QPSK	1M09G7D
LTE Band 4	1.4MHz	16QAM	1M09D7W
LTE Band 4	3MHz	QPSK	2M70G7D
LTE Band 4	3MHz	16QAM	2M70D7W
LTE Band 4	5MHz	QPSK	4M50G7D
LTE Band 4	5MHz	16QAM	4M50D7W
LTE Band 4	10MHz	QPSK	9M02G7D
LTE Band 4	10MHz	16QAM	8M98D7W
LTE Band 4	15MHz	QPSK	13M5G7D
LTE Band 4	15MHz	16QAM	13M5D7W
LTE Band 4	20MHz	QPSK	18M0G7D
LTE Band 4	20MHz	16QAM	18M0D7W
LTE Band 5	1.4MHz	QPSK	1M09G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M70G7D
LTE Band 5	3MHz	16QAM	2M70D7W
LTE Band 5	5MHz	QPSK	4M50G7D
LTE Band 5	5MHz	16QAM	4M50D7W
LTE Band 5	10MHz	QPSK	9M00G7D
LTE Band 5	10MHz	16QAM	8M99D7W

t (886-2) 2299-3279



LTE Band 7 5MHz 16QAM 4M50D7W LTE Band 7 10MHz QPSK 9M00G7D LTE Band 7 10MHz 16QAM 8M97D7W LTE Band 7 15MHz QPSK 13M5G7D LTE Band 7 15MHz QPSK 13M5D7W LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz QPSK 18M0G7D LTE Band 12 1.4MHz QPSK 2M70G7D LTE Band 12 1.4MHz QPSK 2M70G7D LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 3MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 4M50G7D LTE Band 25			1	,
LTE Band 7 10MHz QPSK 9M00G7D LTE Band 7 10MHz 16QAM 8M97D7W LTE Band 7 15MHz QPSK 13M5G7D LTE Band 7 15MHz QPSK 13M5G7D LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz QPSK 18M007W LTE Band 7 20MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 2M70G7D LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 5MHz 16QAM 8M92D7W LTE Band 13 10MHz QPSK 9M00G7D LTE Band 13 10MHz QPSK 10M10TD7W LTE Band 25	LTE Band 7	5MHz	QPSK	4M50G7D
LTE Band 7 10MHz 16QAM 8M97D7W LTE Band 7 15MHz QPSK 13M5G7D LTE Band 7 15MHz 16QAM 13M5D7W LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz 16QAM 18M0G7D LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz 16QAM 1M09D7W LTE Band 12 3MHz QPSK 2M70G7D LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 3MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25	LTE Band 7	5MHz	16QAM	4M50D7W
LTE Band 7 15MHz QPSK 13M5G7D LTE Band 7 15MHz 16QAM 13M5D7W LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz QPSK 18M0G7D LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 2M70D7W LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 3MHz 16QAM 4M50G7D LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 8M92D7W LTE Band 25 1.4MHz QPSK 8M92D7W LTE Band 25	LTE Band 7	10MHz	QPSK	9M00G7D
LTE Band 7 15MHz 16QAM 13M5D7W LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz 16QAM 18M0D7W LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 2M70G7D LTE Band 12 3MHz QPSK 2M70G7D LTE Band 12 3MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 4M5007W LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 10MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M92D7W LTE Band 25 1.4MHz QPSK 1M1007D LTE Band 25	LTE Band 7	10MHz	16QAM	8M97D7W
LTE Band 7 20MHz QPSK 18M0G7D LTE Band 7 20MHz 16QAM 18M0D7W LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz QPSK 2M70G7D LTE Band 12 3MHz QPSK 2M70G7D LTE Band 12 3MHz QPSK 4M50G7D LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M0067D LTE Band 12 10MHz QPSK 9M0067D LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M92D7W LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25	LTE Band 7	15MHz	QPSK	13M5G7D
LTE Band 7 20MHz 16QAM 18M0D7W LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz 16QAM 1M09D7W LTE Band 12 3MHz QPSK 2M70G7D LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 3MHz QPSK 4M50G7D LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M92D7W LTE Band 25 1.4MHz QPSK 8M92D7W LTE Band 25 1.4MHz QPSK 1M1007D LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25	LTE Band 7	15MHz	16QAM	13M5D7W
LTE Band 12 1.4MHz QPSK 1M09G7D LTE Band 12 1.4MHz 16QAM 1M09D7W LTE Band 12 3MHz QPSK 2M70G7D LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 8M92D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz QPSK 2M70D7W LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 <td>LTE Band 7</td> <td>20MHz</td> <td>QPSK</td> <td>18M0G7D</td>	LTE Band 7	20MHz	QPSK	18M0G7D
LTE Band 12 1.4MHz 16QAM 1M09D7W LTE Band 12 3MHz QPSK 2M70G7D LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 2M70G7D LTE Band 25 1.4MHz QPSK 2M70G7D LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 MHz 16QAM 4M50D7W LTE Band 25	LTE Band 7	20MHz	16QAM	18M0D7W
LTE Band 12 3MHz QPSK 2M70G7D LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 3MHz 16QAM 1M10D7W LTE Band 25 3MHz 16QAM 2M70G7D LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25	LTE Band 12	1.4MHz	QPSK	1M09G7D
LTE Band 12 3MHz 16QAM 2M70D7W LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 8M92D7W LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 3MHz 16QAM 1M10D7W LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 3MHz QPSK 4M50G7D LTE Band 25 5MHz QPSK 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25	LTE Band 12	1.4MHz	16QAM	1M09D7W
LTE Band 12 5MHz QPSK 4M50G7D LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz QPSK 9M00G7D LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz QPSK 2M70D7W LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 3MHz QPSK 4M50G7D LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25	LTE Band 12	3MHz	QPSK	2M70G7D
LTE Band 12 5MHz 16QAM 4M50D7W LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz QPSK 1M1007W LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz QPSK 4M5007W LTE Band 25 5MHz QPSK 4M5007W LTE Band 25 5MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25	LTE Band 12	3MHz	16QAM	2M70D7W
LTE Band 12 10MHz QPSK 9M00G7D LTE Band 12 10MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz 16QAM 8M92D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz 16QAM 1M10D7W LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 13M5D7W LTE Band 25 10MHz QPSK 13M5D7W LTE Band 26 <td>LTE Band 12</td> <td>5MHz</td> <td>QPSK</td> <td>4M50G7D</td>	LTE Band 12	5MHz	QPSK	4M50G7D
LTE Band 12 10MHz 16QAM 8M98D7W LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz 16QAM 8M92D7W LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 3MHz QPSK 4M50G7D LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz 16QAM 13M5G7D LTE Band 25 10MHz QPSK 13M5G7D LTE Band 25	LTE Band 12	5MHz	16QAM	4M50D7W
LTE Band 13 5MHz QPSK 4M50G7D LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz 16QAM 8M92D7W LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz QPSK 2M70G7D LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz QPSK 2M70D7W LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 5MHz QPSK 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M99D7W LTE Band 25 10MHz 16QAM 13M5G7D LTE Band 25 15MHz 16QAM 13M5D7W LTE Band 25 20MHz QPSK 18M0G7D LTE Band 26	LTE Band 12	10MHz	QPSK	9M00G7D
LTE Band 13 5MHz 16QAM 4M51D7W LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz 16QAM 8M92D7W LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz QPSK 1M1007W LTE Band 25 1.4MHz 16QAM 1M10D7W LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz QPSK 2M70D7W LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M99D7W LTE Band 25 15MHz 16QAM 8M99D7W LTE Band 25 10MHz QPSK 13M5G7D LTE Band 25 15MHz 16QAM 13M5D7W LTE Band 25 20MHz QPSK 18M0G7D LTE Band 26 </td <td>LTE Band 12</td> <td>10MHz</td> <td>16QAM</td> <td>8M98D7W</td>	LTE Band 12	10MHz	16QAM	8M98D7W
LTE Band 13 10MHz QPSK 8M97G7D LTE Band 13 10MHz 16QAM 8M92D7W LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz 16QAM 1M10D7W LTE Band 25 1.4MHz 16QAM 1M10D7W LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 3MHz QPSK 4M50G7D LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 20MHz QPSK 18M0G7D LTE Band 25 20MHz QPSK 18M0G7D LTE Band 26 1.4MHz QPSK 1M09D7W LTE Band 26 </td <td>LTE Band 13</td> <td>5MHz</td> <td>QPSK</td> <td>4M50G7D</td>	LTE Band 13	5MHz	QPSK	4M50G7D
LTE Band 13 10MHz 16QAM 8M92D7W LTE Band 25 1.4MHz QPSK 1M10G7D LTE Band 25 1.4MHz 16QAM 1M10D7W LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz QPSK 2M70D7W LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M99D7W LTE Band 25 10MHz 16QAM 8M99D7W LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz 16QAM 13M5D7W LTE Band 25 20MHz QPSK 18M0G7D LTE Band 26 1.4MHz QPSK 18M0D7W LTE Band 26 1.4MHz QPSK 2M70G7D LTE Band 26<	LTE Band 13	5MHz	16QAM	4M51D7W
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LTE Band 25 3MHz QPSK 2M70G7D LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M99D7W LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz 16QAM 13M5D7W LTE Band 25 20MHz QPSK 18M0G7D LTE Band 25 20MHz QPSK 18M0G7D LTE Band 26 1.4MHz QPSK 1M09G7D LTE Band 26 1.4MHz 16QAM 1M09D7W LTE Band 26 3MHz 16QAM 1M09D7W LTE Band 26 3MHz QPSK 2M70D7D LTE Band 26 3MHz QPSK 2M70D7W LTE Band 26	LTE Band 25	1.4MHz	QPSK	1M10G7D
LTE Band 25 3MHz 16QAM 2M70D7W LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz 16QAM 8M99D7W LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz QPSK 13M5D7W LTE Band 25 20MHz QPSK 18M0G7D LTE Band 25 20MHz QPSK 18M0G7D LTE Band 25 20MHz 16QAM 18M0D7W LTE Band 26 1.4MHz QPSK 1M09G7D LTE Band 26 1.4MHz 16QAM 1M09D7W LTE Band 26 3MHz QPSK 2M70G7D LTE Band 26 3MHz QPSK 2M70D7W LTE Band 26 3MHz 16QAM 2M70D7W LTE Band 26 <td>LTE Band 25</td> <td>1.4MHz</td> <td>16QAM</td> <td>1M10D7W</td>	LTE Band 25	1.4MHz	16QAM	1M10D7W
LTE Band 25 5MHz QPSK 4M50G7D LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz 16QAM 8M99D7W LTE Band 25 10MHz 16QAM 8M99D7W LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz 16QAM 13M5D7W LTE Band 25 20MHz QPSK 18M0G7D LTE Band 25 20MHz QPSK 18M0G7D LTE Band 26 1.4MHz QPSK 1M09G7D LTE Band 26 1.4MHz QPSK 1M09D7W LTE Band 26 1.4MHz QPSK 2M70G7D LTE Band 26 3MHz QPSK 2M70D7W LTE Band 26 3MHz 16QAM 2M70D7W LTE Band 26 3MHz QPSK 4M50G7D	LTE Band 25	3MHz	QPSK	2M70G7D
LTE Band 25 5MHz 16QAM 4M50D7W LTE Band 25 10MHz QPSK 8M98G7D LTE Band 25 10MHz 16QAM 8M99D7W LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz QPSK 13M5G7D LTE Band 25 15MHz 16QAM 13M5D7W LTE Band 25 20MHz QPSK 18M0G7D LTE Band 25 20MHz QPSK 18M0G7D LTE Band 25 20MHz 16QAM 18M0D7W LTE Band 26 1.4MHz QPSK 1M09G7D LTE Band 26 1.4MHz QPSK 2M70G7D LTE Band 26 3MHz QPSK 2M70G7D LTE Band 26 3MHz 16QAM 2M70D7W LTE Band 26 3MHz QPSK 4M50G7D	LTE Band 25	3MHz	16QAM	2M70D7W
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LTE Band 26 1.4MHz 16QAM 1M09D7W LTE Band 26 3MHz QPSK 2M70G7D LTE Band 26 3MHz 16QAM 2M70D7W LTE Band 26 3MHz 16QAM 2M70D7W LTE Band 26 5MHz QPSK 4M50G7D	LTE Band 25	20MHz		18M0D7W
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LTE Band 26 3MHz 16QAM 2M70D7W LTE Band 26 5MHz QPSK 4M50G7D	LTE Band 26	1.4MHz	16QAM	1M09D7W
LTE Band 26 5MHz QPSK 4M50G7D	LTE Band 26	3MHz	QPSK	2M70G7D
LTE Band 26 5MHz QPSK 4M50G7D	LTE Band 26	3MHz	16QAM	2M70D7W
	-	5MHz	QPSK	4M50G7D
LTE Band 26 5MHz 16QAM 4M50D7W	LTE Band 26	5MHz	16QAM	4M50D7W



LTE Band 26	10MHz	QPSK	9M01G7D
LTE Band 26	10MHz	16QAM	8M98D7W
LTE Band 26	15MHz	QPSK	13M5G7W
LTE Band 26	15MHz	16QAM	13M5D7W
LTE Band 30	5MHz	QPSK	4M49G7D
LTE Band 30	5MHz	16QAM	4M50D7W
LTE Band 30	10MHz	QPSK	9M00G7D
LTE Band 30	10MHz	16QAM	8M96D7W
LTE Band 41	5MHz	QPSK	4M51G7D
LTE Band 41	5MHz	16QAM	4M51D7W
LTE Band 41	10MHz	QPSK	8M98G7D
LTE Band 41	10MHz	16QAM	8M99D7W
LTE Band 41	15MHz	QPSK	13M5G7D
LTE Band 41	15MHz	16QAM	13M5D7W
LTE Band 41	20MHz	QPSK	18M0G7D
LTE Band 41	20MHz	16QAM	17M9D7W

LTE Band 26 for Part 90S

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LTE Band 26	1.4MHz	QPSK	1M10G7D
LTE Band 26	1.4MHz	16QAM	1M09D7W
LTE Band 26	3MHz	QPSK	2M70G7D
LTE Band 26	3MHz	16QAM	2M70D7W
LTE Band 26	5MHz	QPSK	4M50G7D
LTE Band 26	5MHz	16QAM	4M50D7W
LTE Band 26	10MHz	QPSK	8M99G7D
LTE Band 26	10MHz	16QAM	8M99D7W



Max ERP/EIRP Power Measurement Result:

	dBm		W
WCDMA Band II	31.10	EIRP	1.288
HSDPA Band II	23.86	EIRP	0.243
HSUPA Band II	24.86	EIRP	0.306
WCDMA Band V	23.80	ERP	0.240
HSDPA Band V	23.12	ERP	0.205
HSUPA Band V	22.85	ERP	0.193
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	30.33	EIRP	1.079
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	31.22	EIRP	1.324
LTE-Band 2 (Bandwidth 3MHz) QPSK	32.53	EIRP	1.791
LTE-Band 2 (Bandwidth 3MHz) 16QAM	31.07	EIRP	1.279
LTE-Band 2 (Bandwidth 5MHz) QPSK	31.14	EIRP	1.300
LTE-Band 2 (Bandwidth 5MHz) 16QAM	31.11	EIRP	1.291
LTE-Band 2 (Bandwidth 10MHz) QPSK	30.75	EIRP	1.189
LTE-Band 2 (Bandwidth 10MHz) 16QAM	29.20	EIRP	0.832
LTE-Band 2 (Bandwidth 15MHz) QPSK	29.40	EIRP	0.871
LTE-Band 2 (Bandwidth 15MHz) 16QAM	30.61	EIRP	1.151
LTE-Band 2 (Bandwidth 20MHz) QPSK	29.55	EIRP	0.902
LTE-Band 2 (Bandwidth 20MHz) 16QAM	29.97	EIRP	0.993
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	27.72	EIRP	0.592
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	27.51	EIRP	0.564
LTE-Band 4 (Bandwidth 3MHz) QPSK	29.66	EIRP	0.925
LTE-Band 4 (Bandwidth 3MHz) 16QAM	27.26	EIRP	0.532
LTE-Band 4 (Bandwidth 5MHz) QPSK	28.35	EIRP	0.684
LTE-Band 4 (Bandwidth 5MHz) 16QAM	28.18	EIRP	0.658
LTE-Band 4 (Bandwidth 10MHz) QPSK	28.19	EIRP	0.659
LTE-Band 4 (Bandwidth 10MHz) 16QAM	28.27	EIRP	0.671
LTE-Band 4 (Bandwidth 15MHz) QPSK	27.37	EIRP	0.546
LTE-Band 4 (Bandwidth 15MHz) 16QAM	28.07	EIRP	0.641
LTE-Band 4 (Bandwidth 20MHz) QPSK	26.83	EIRP	0.482
LTE-Band 4 (Bandwidth 20MHz) 16QAM	26.98	EIRP	0.499



	dBm		w
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	25.81	ERP	0.381
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	25.75	ERP	0.376
LTE-Band 5 (Bandwidth 3MHz) QPSK	25.62	ERP	0.365
LTE-Band 5 (Bandwidth 3MHz) 16QAM	24.96	ERP	0.313
LTE-Band 5 (Bandwidth 5MHz) QPSK	25.49	ERP	0.354
LTE-Band 5 (Bandwidth 5MHz) 16QAM	25.50	ERP	0.355
LTE-Band 5 (Bandwidth 10MHz) QPSK	25.27	ERP	0.337
LTE-Band 5 (Bandwidth 10MHz) 16QAM	25.39	ERP	0.346
LTE-Band 7 (Bandwidth 5MHz) QPSK	26.84	EIRP	0.483
LTE-Band 7 (Bandwidth 5MHz) 16QAM	26.53	EIRP	0.450
LTE-Band 7 (Bandwidth 10MHz) QPSK	32.11	EIRP	1.626
LTE-Band 7 (Bandwidth 10MHz) 16QAM	31.50	EIRP	1.413
LTE-Band 7 (Bandwidth 15MHz) QPSK	26.65	EIRP	0.462
LTE-Band 7 (Bandwidth 15MHz) 16QAM	26.36	EIRP	0.433
LTE-Band 7 (Bandwidth 20MHz) QPSK	26.58	EIRP	0.455
LTE-Band 7 (Bandwidth 20MHz) 16QAM	26.56	EIRP	0.453
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	25.76	ERP	0.377
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	22.02	ERP	0.159
LTE-Band 12 (Bandwidth 3MHz) QPSK	21.19	ERP	0.132
LTE-Band 12 (Bandwidth 3MHz) 16QAM	21.33	ERP	0.136
LTE-Band 12 (Bandwidth 5MHz) QPSK	21.16	ERP	0.131
LTE-Band 12 (Bandwidth 5MHz) 16QAM	25.68	ERP	0.370
LTE-Band 12 (Bandwidth 10MHz) QPSK	21.24	ERP	0.133
LTE-Band 12 (Bandwidth 10MHz) 16QAM	21.17	ERP	0.131
LTE-Band 13 (Bandwidth 5MHz) QPSK	22.07	ERP	0.161
LTE-Band 13 (Bandwidth 5MHz) 16QAM	23.87	ERP	0.244
LTE-Band 13 (Bandwidth 10MHz) QPSK	24.51	ERP	0.282
LTE-Band 13 (Bandwidth 10MHz) 16QAM	22.90	ERP	0.195
LTE-Band 25 (Bandwidth 1.4MHz) QPSK	27.37	EIRP	0.546
LTE-Band 25 (Bandwidth 1.4MHz) 16QAM	27.43	EIRP	0.553
LTE-Band 25 (Bandwidth 3MHz) QPSK	31.36	EIRP	1.368
LTE-Band 25 (Bandwidth 3MHz) 16QAM	27.19	EIRP	0.524

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	dBm		W
LTE-Band 25 (Bandwidth 5MHz) QPSK	28.47	EIRP	0.703
LTE-Band 25 (Bandwidth 5MHz) 16QAM	27.75	EIRP	0.596
LTE-Band 25 (Bandwidth 10MHz) QPSK	29.59	EIRP	0.910
LTE-Band 25 (Bandwidth 10MHz) 16QAM	29.54	EIRP	0.899
LTE-Band 25 (Bandwidth 15MHz) QPSK	29.50	EIRP	0.891
LTE-Band 25 (Bandwidth 15MHz) 16QAM	29.40	EIRP	0.871
LTE-Band 25 (Bandwidth 20MHz) QPSK	31.05	EIRP	1.274
LTE-Band 25 (Bandwidth 20MHz) 16QAM	30.51	EIRP	1.125
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	26.05	ERP	0.403
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	25.64	ERP	0.366
LTE-Band 26 (Bandwidth 3MHz) QPSK	24.89	ERP	0.308
LTE-Band 26 (Bandwidth 3MHz) 16QAM	25.66	ERP	0.368
LTE-Band 26 (Bandwidth 5MHz) QPSK	25.59	ERP	0.362
LTE-Band 26 (Bandwidth 5MHz) 16QAM	25.74	ERP	0.375
LTE-Band 26 (Bandwidth 10MHz) QPSK	25.51	ERP	0.356
LTE-Band 26 (Bandwidth 10MHz) 16QAM	25.58	ERP	0.361
LTE-Band 26 (Bandwidth 15MHz) QPSK	25.52	ERP	0.356
LTE-Band 26 (Bandwidth 15MHz) 16QAM	25.45	ERP	0.351
LTE-Band 30 (Bandwidth 5MHz) QPSK	30.63	EIRP	1.156
LTE-Band 30 (Bandwidth 5MHz) 16QAM	30.17	EIRP	1.040
LTE-Band 30 (Bandwidth 10MHz) QPSK	30.49	EIRP	1.119
LTE-Band 30 (Bandwidth 10MHz) 16QAM	30.80	EIRP	1.202
LTE-Band 41 (Bandwidth 5MHz) QPSK	30.57	EIRP	1.140
LTE-Band 41 (Bandwidth 5MHz) 16QAM	28.47	EIRP	0.703
LTE-Band 41 (Bandwidth 10MHz) QPSK	28.98	EIRP	0.791
LTE-Band 41 (Bandwidth 10MHz) 16QAM	27.91	EIRP	0.618
LTE-Band 41 (Bandwidth 15MHz) QPSK	29.46	EIRP	0.883
LTE-Band 41 (Bandwidth 15MHz) 16QAM	29.56	EIRP	0.904
LTE-Band 41 (Bandwidth 20MHz) QPSK	29.54	EIRP	0.899
LTE-Band 41 (Bandwidth 20MHz) 16QAM	30.01	EIRP	1.002

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LTE Band 26 for Part 90S

	dBm		W
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	26.50	ERP	0.447
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	26.10	ERP	0.407
LTE-Band 26 (Bandwidth 3MHz) QPSK	26.45	ERP	0.442
LTE-Band 26 (Bandwidth 3MHz) 16QAM	26.22	ERP	0.419
LTE-Band 26 (Bandwidth 5MHz) QPSK	26.35	ERP	0.432
LTE-Band 26 (Bandwidth 5MHz) 16QAM	26.19	ERP	0.416
LTE-Band 26 (Bandwidth 10MHz) QPSK	25.42	ERP	0.348
LTE-Band 26 (Bandwidth 10MHz) 16QAM	25.38	ERP	0.345



1.2. Test Methodology of Applied Standards

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

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (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.

1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 735305

1.4. Special Accessories

No special accessories were used during testing.

1.5. 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 TIA/EIA 603C, 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 TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. 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.

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.

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Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 0.5 dB for low band and 0.6 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.5+10=10.5(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.6+10=10.6(dB)

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	12 Vdc	1.21
WCDMA B5	12 Vdc	1.22
LTE Band 2	12 Vdc	1.29
LTE Band 4	12 Vdc	1.26
LTE Band 5	12 Vdc	1.22
LTE Band 7	12 Vdc	1.26
LTE Band 12	12 Vdc	1.25
LTE Band 13	12 Vdc	1.21
LTE Band 25	12 Vdc	1.26
LTE Band 26	12 Vdc	1.14
LTE Band 26 (Part 90S)	12 Vdc	1.14
LTE Band 30	12 Vdc	1.23
LTE Band 41	12 Vdc	1.19

2.5. Final Amplifier Voltage and Current Information:

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2.6. Configuration of Tested System

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

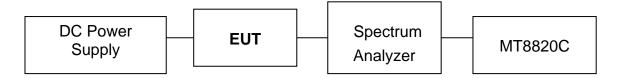
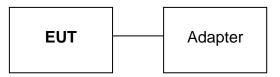


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side



Table 2-1 Equipment Used in

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	ERP/ EIRP measure- ment	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spu- rious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	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	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	E2-plan	E2-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 25	E2-plan	E2-plan
LTE Band 26	E2-plan	E2-plan
LTE Band 26 (Part 90S)	E2-plan	E2-plan
LTE Bnad 30	E2-plan	E2-plan
LTE Band 41	E2-plan	E2-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	9262, 9400, 9583	WCDMA/HSPA Band II
FREQUENCY	4132 to 4233	4183	WCDMA Band II
STABILITY	9262 to 9538	9400	WCDMA Band V
OCCUPIED	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band II
BANDWIDTH	9262 to 9538	9262, 9400, 9583	WCDMA/HSPA Band V
PEAK TO AVERAGE	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band II
RATIO	9262 to 9538	9262, 9400, 9583	WCDMA/HSPA Band V
	4132 to 4233	4132, 4233	WCDMA Band II
BAND EDGE	9262 to 9538	9262, 9583	WCDMA Band V
CONDCUDETED	4132 to 4233	4132, 4183, 4233	WCDMA Band II
EMISSION	9262 to 9538	9262, 9400, 9583	WCDMA Band V
	4132 to 4233	4132, 4183, 4233	WCDMA Band II
RADIATED EMISSION	9262 to 9538	9262, 9400, 9583	WCDMA Band V



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
EIRP	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
LINF	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	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
BANDWIDTH	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 AV-	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
ERAGE 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
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	18625 to 19175	18625, 18900, 19175	3MHz	QPSK	1 RB, 14 RB Offest



LTE Band 4 MODE

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



LTE Band 5 MODE

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
ENF	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, 20525, 20643		QPSK, 16QAM	Full RB
OCCUPIED	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
BANDWIDTH	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 AV-	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
ERAGE 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
	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 EMISSION	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	1.4MHz	QPSK	1 RB, 0 RB Offest



LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	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
LIKF	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, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
OCCUPIED		20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
BANDWIDTH		20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
		20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
		20775, 21100, 21425	5MHz	16QAM	Full RB
PEAK TO AV-	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
ERAGE RATIO	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	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
BAND EDGE	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,	1 RB/ 0,99 RB Offest Full RB
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED		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	20850 to 21350	20850, 21100, 21350	10MHz	QPSK	1 RB, 49 RB Offest
EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
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



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
	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 AV-	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
ERAGE 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 EMISSION	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23035 to 23155	23035, 23095, 23155	1.4MHz	QPSK	1 RB, 0 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
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
BANDWIDTH	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
ERAGE RATIO	23230	23230	10MHz	16QAM	Full RB
	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
	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	10MHz	QPSK	1 RB/ 0 RB Offest



LTE Band 25 MODE

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



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	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
BANDWIDTH	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
PEAK TO AV-	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
-	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
ERAGE RATIO	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
CONDCUDETED EMISSION	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26805 to 27025	26805, 26915, 27025	1.4MHz	QPSK,	1 RB, 0 RB Offest



LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED 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
	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	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
BANDWIDTH	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 AV-	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
ERAGE 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
BAND EDGE	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 EMISSION	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	1.4MHz	QPSK,	1 RB, 0 RB Offest



LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	40165 to 41215	40165, 40690, 41215	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
EIKF	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	40240 to 41140	40340 , 40690, 41140	20MHz	QPSK,	Full RB
	40165 to 41215	40165, 40690, 41215	5MHz	QPSK, 16QAM	Full RB
OCCUPIED	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK, 16QAM	Full RB
BANDWIDTH	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK, 16QAM	Full RB
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK, 16QAM	Full RB
	40165 to 41215	40165, 40690, 41215	5MHz	16QAM	Full RB
PEAK TO AV-	40190 to 41190	40190 , 40690, 41190	10MHz	16QAM	Full RB
ERAGE RATIO	40215 to 41165	40215 , 40690, 41165	15MHz	16QAM	Full RB
	40240 to 41140	40240 , 40690, 41140	20MHz	16QAM	Full RB
	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
BAND EDGE	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
BAND EDGE	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK,	1 RB, 0 RB Offest
EMISSION	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK,	1 RB, 0 RB Offest
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset



LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
LIKF	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB
BANDWIDTH	27710	27710	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
ERAGE RATIO	27710	27710	10MHz	16QAM	Full RB
	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
BAND EDGE	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	23755 to 23825	23755, 23790, 23825	10MHz	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:

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

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

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

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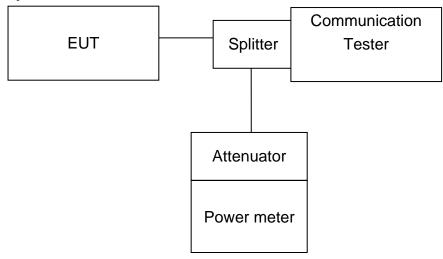


6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

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

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices,

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

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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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna 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	05/25/2017	05/24/2018		
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017		
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018		
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017		
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017		
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017		
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:

EUT Mode		WCDMA Band II	HSDPA Band II	HSUPA Band II
Frequency	СН	Avg. Power	Avg. Power	Avg. Power
(MHz)		(dBm)	(dBm)	(dBm)
1852.4	9262	23.28	22.39	23.16
1880.0	9400	23.17	22.85	22.83
1907.6	9538	23.07	22.37	22.30

EUT Mode		WCDMA Band V	HSDPA Band V	HSUPA Band V
Frequency	СН	Avg. Power	Avg. Power	Avg. Power
(MHz)		(dBm)	(dBm)	(dBm)
826.4	4132	22.63	22.32	22.29
836.6	4183	22.41	22.46	22.32
846.6	4233	22.47	22.15	22.08



LTE Result:

LTE Band 2

	LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
				Conducted power(dBm)								
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
		Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			18607	18900	19193	18607	18900	19193				
	1	0	22.96	23.20	23.13	22.16	22.26	21.96				
1.4	1	5	22.95	23.16	23.19	21.93	22.26	22.03				
1.4	3	2	23.13	23.05	22.97	22.22	22.36	22.04				
	6	0	22.07	22.02	21.90	20.99	20.95	20.81				

	LTE Band 2_Uplink frequency band : 1850 to 1910 MHz												
			Conducted power(dBm)										
BW	RB	RB		QPSK			16QAM						
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel					
(11112)	SIZE	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			18625	18900	19175	18625	18900	19175					
	1	0	23.22	23.16	22.97	22.19	22.36	22.26					
5	1	24	23.15	23.03	23.04	22.29	22.18	22.18					
5	12	6	22.20	22.11	21.98	21.15	21.16	21.03					
	25	0	22.07	21.86	21.95	21.14	21.03	20.91					

	LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
	0126	Ze Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			18675	18900	19125	18675	18900	19125				
	1	0	22.95	22.91	22.87	21.92	22.09	21.94				
15	1	74	22.86	22.74	22.66	22.04	21.91	22.03				
15	36	19	22.08	22.08	21.95	21.09	21.00	20.98				
	75	0	22.02	22.01	21.91	20.89	20.88	20.79				

	LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
				Conducted power(dBm)								
BW	RB	RB	QPSK				16QAM					
ылл (MHz)	Size	Offset	Channe	Channe	Channe	Channe	Channe	Channe				
(11112)	SIZE	Unset	I (Low)	I (Mid)	I (High)	I (Low)	I (Mid)	I (High)				
			18615	18900	19185	18615	18900	19185				
	1	0	23.09	23.17	22.84	22.10	22.10	22.07				
3	1	14	23.35	23.02	22.83	22.22	22.11	22.01				
5	8	4	22.21	22.10	21.93	21.27	21.25	21.09				
	15	0	22.09	22.07	21.94	21.23	21.21	21.07				

	LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
			Conducted power(dBm)									
BW	RB	RB	QPSK 16QA					Λ				
ылл (MHz)	Size	Offset	Channe	Channe	Channe	Channe	Channe	Channe				
	SIZE	Unser	I (Low)	I (Mid)	I (High)	I (Low)	I (Mid)	I (High)				
			18650	18900	19150	18650	18900	19150				
	1	0	23.25	23.32	23.09	22.40	22.62	22.40				
10	1	49	23.09	23.01	22.74	22.41	22.63	22.30				
10	25	12	22.36	22.19	22.09	21.22	21.18	21.08				
	50	0	22.17	22.12	21.95	21.16	21.13	21.07				

	LTE Band 2_Uplink frequency band : 1850 to 1910 MHz											
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM	QAM anne Channe Mid) I (High) 1900 19100 2.62 22.40 2.63 22.30 .18 21.08				
	Size	Offset	Channe	Channe	Channe	Channe	Channe	Channe				
	SIZE	Unser	I (Low)	I (Mid)	l (High)	I (Low)	I (Mid)	I (High)				
			18700	18900	19100	18700	18900	19100				
	1	0	23.25	23.32	23.09	22.40	22.62	22.40				
20	1	99	23.09	23.01	22.74	22.41	22.63	22.30				
20	50	25	22.36	22.19	22.09	21.22	21.18	21.08				
	100	0	22.17	22.12	21.95	21.16	21.13	21.07				



	LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	A Channel (High) 20393 21.42 21.62 20.91				
(11112)	OIZE	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	SQAM nannel Channel Mid) (High) 0175 20393 1.99 21.42 1.77 21.62 1.30 20.91				
			19957	20175	20393	19957	20175	20393				
	1	0	22.51	22.35	22.22	21.93	21.99	21.42				
1.4	1	5	22.33	22.28	21.79	21.81	21.77	21.62				
1.4	3	2	22.46	22.29	21.93	21.57	21.30	20.91				
	6	0	21.51	21.26	20.97	20.66	20.31	19.99				

	LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
				Conducted power(dBm)								
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
	SIZE	Ullset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			19975	20175	20375	19975	20175	20375				
	1	0	22.60	22.46	22.07	22.03	21.58	21.25				
5	1	24	22.49	22.15	21.84	21.98	21.41	21.41				
5	12	6	21.52	21.13	21.01	20.49	20.12	19.84				
	25	0	21.45	21.08	20.95	20.40	20.04	19.88				

	LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM	hel Channel (High) (High) '5 20385 8 21.25 1 21.41 2 19.84				
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(101112)	0120	Uliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			19965	20175	20385	19965	20175	20385				
	1	0	22.60	22.46	22.07	22.03	21.58	21.25				
3	1	14	22.49	22.15	21.84	21.98	21.41	21.41				
5	8	4	21.52	21.13	21.01	20.49	20.12	19.84				
	15	0	21.45	21.08	20.95	20.40	20.04	19.88				

	LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
	0120	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			20000	20175	20350	20000	20175	20350				
	1	0	22.57	22.38	22.26	21.90	21.82	21.58				
10	1	49	22.34	22.31	21.99	21.66	21.48	21.35				
10	25	12	21.57	21.42	21.20	20.56	20.43	20.16				
	50	0	21.46	21.21	21.15	20.51	20.25	20.17				

	LTE Band 4_Uplink frequency band : 1710 to 1755 MHz											
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
	Size	ize Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			20025	20175	20325	20025	20175	20325				
	1	0	22.58	22.34	22.20	21.93	21.55	21.37				
15	1	74	22.39	21.99	21.91	21.58	21.07	21.16				
10	36	19	21.54	21.33	21.24	20.50	20.21	20.20				
	75	0	21.46	21.19	21.04	20.47	20.22	20.16				

	LTE	Band 4	Uplink fr	equency b	oand : 171	0 to 1755	5 MHz			
				С	onducted	power(dB	m)	el Channel (High) 20300		
BW (MHz)	RB	RB		QPSK			16QAM	QAM Innel Channel lid) (High) 175 20300 .66 21.44 .12 21.08 .21 20.19		
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel		
	0120	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			20050	20175	20300	20050	20175	20300		
	1	0	22.52	22.35	22.15	21.64	21.66	21.44		
20	1	99	22.26	21.86	21.74	21.33	21.12	21.08		
20	50	25	21.49	21.27	21.15	20.53	20.21	20.19		
	100	0	21.41	21.27	21.13	20.50	20.29	20.25		



	LTE Band 5_Uplink frequency band : 824 to 849 MHz											
			Conducted power(dBm)									
BW	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(IVITZ)	Size	Ulisei	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			20407	20525	20643	20407	20525	20643				
	1	0	23.14	22.47	22.47	21.53	21.96	21.35				
1.4	1	5	22.59	22.66	22.34	21.84	21.65	21.43				
1.4	3	2	22.73	22.46	22.42	21.66	21.52	21.49				
	6	0	21.64	21.31	21.33	20.64	20.47	20.25				

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)			Conducted power(dBm)							
	RB	RB		QPSK			16QAM			
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel		
(11112)	0126	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
			20415	20525	20635	20415	20525	20635		
	1	0	22.77	22.32	22.22	22.13	21.86	21.88		
3	1	14	22.70	22.30	22.20	22.34	21.96	21.70		
3	8	4	21.62	21.39	21.28	20.73	20.30	20.35		
	15	0	21.60	21.34	21.35	20.64	20.41	20.41		

	LTE Band 5_Uplink frequency band : 824 to 849 MHz											
			Conducted power(dBm)									
BW	RB	RB	QPSK				16QAM					
(MHz)		Offset	Channel	Channel	Channel	Channel	Channel	Channel				
	Size	Unset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			20425	20525	20625	20425	20525	20625				
	1	0	22.69	22.47	22.40	22.09	21.93	21.69				
5	1	24	22.48	22.29	22.47	21.98	21.81	22.00				
5	12	6	21.60	21.42	21.30	20.45	20.40	20.14				
	25	0	21.59	21.39	21.24	20.62	20.44	20.17				

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
			Conducted power(dBm)								
BW	RB	RB		QPSK			16QAM				
		Offset	Channel	Channel	Channel	Channel	Channel	Channel			
(MHz)	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			20450	20525	20600	20450	20525	20600			
	1	0	22.93	22.54	22.42	22.48	21.86	21.75			
10	1	49	22.45	22.63	22.48	22.21	21.88	21.88			
10	25	12	21.62	21.36	21.47	20.60	20.36	20.45			
	50	0	21.60	21.36	21.35	20.38	20.32	20.32			

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz

QPSK

Channel

(Mid)

Conducted power(dBm)

Channel

(High)

16QAM

(Mid)

Channel

(High) 21400 20.71 20.59 19.47 19.44

Channel Channel

(Low)

LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz											
				Conducted power(dBm)							
BW	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel			
(11112)	0120	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			20775	21100	21425	20775	21100	21425			
	1	0	21.53	21.61	21.55	20.88	21.36	20.80			
5	1	24	21.58	22.07	21.43	20.81	21.02	20.81			
5	12	6	20.50	20.74	20.42	19.36	19.74	19.52			
	25	0	20.37	20.64	20.50	19.32	19.62	19.38			

21425				20800	21100	21400	20800	21100
20.80		1	0	21.28	21.68	21.53	20.65	20.97
20.81	10	1	49	21.69	21.64	21.49	20.92	20.93
19.52	10	25	12	20.43	20.74	20.47	19.38	19.63
19.38		50	0	20.47	20.67	20.45	19.44	19.67
		LT	E Band 7	_Uplink fr	equency k	oand : 250	0 to 2570	MHz
		LT	E Band 7	_Uplink fr		oand : 250 Conducted		
	BW/			_Uplink fr				
Channel	BW (MHz)	RB	RB	_ Uplink fr Channel	Ċ			n)
Channel (High)	BW (MHz)				QPSK	onducted	power(dBr	n) 16QAM

Channel

(Low)

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz											
			Conducted power(dBm)								
BW	RB	RB		QPSK			16QAM				
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel			
(11112)	0120	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			20825	21100	21375	20825	21100	21375			
	1	0	21.32	21.38	21.07	20.45	20.61	20.33			
15	1	74	21.55	21.51	21.22	20.67	20.74	20.35			
10	36	19	20.60	20.59	20.26	19.57	19.59	19.27			
	75	0	20.45	20.50	20.28	19.56	19.54	19.32			

LIE Band 7_Ophink nequency band . 2500 to 2570 Minz												
				Conducted power(dBm)								
BW (MHz)	RB	RB		QPSK			16QAM					
		Size Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(11112)	Size		(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			20850	21100	21350	20850	21100	21350				
	1	0	21.32	21.25	21.34	20.74	20.57	20.56				
20	1	99	21.57	21.29	21.22	20.98	20.81	20.53				
20	50	25	20.54	20.63	20.38	19.60	19.67	19.42				
	100	0	20.52	20.52	20.36	19.58	19.64	19.38				

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BW

(MHz)

RB

Size

RB

Offset



LTE Band 12_Uplink frequency band : 699 to 716 MHz											
				Conducted power(dBm)							
BW	RB	RB	QPSK				16QAM				
			Channel	Channel	Channel	Channel	Channel	Channel			
(MHz)	Size	Offset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			23017	23095	23173	23017	23095	23173			
	1	0	23.47	23.22	22.87	22.62	22.30	22.16			
1.4	1	5	23.40	23.07	22.93	22.12	22.19	21.98			
1.4	3	2	23.22	23.02	23.03	22.37	22.10	22.06			
	6	0	22.17	21.80	21.76	21.26	21.03	20.90			

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
			Conducted power(dBm)								
BW (MHz)	RB	RB		QPSK			16QAM				
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel			
(11112)	0126	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			23025	23095	23165	23025	23095	23165			
	1	0	23.24	22.77	23.14	22.36	22.04	22.08			
3	1	14	23.23	23.09	22.75	22.31	22.07	22.15			
5	8	4	22.21	22.03	21.93	21.25	21.08	20.88			
	15	0	22.12	21.99	21.93	21.20	20.98	20.94			

	LTE Band 12_Uplink frequency band : 699 to 716 MHz											
			Conducted power(dBm)									
BW	RB	RB	QPSK				16QAM					
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
	SIZE	Unset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			23035	23095	23155	23035	23095	23155				
	1	0	23.17	23.06	23.06	22.39	22.00	22.07				
5	1	24	23.10	22.93	22.95	22.14	21.85	21.89				
5	12	6	22.13	21.92	22.02	21.12	20.91	20.90				
	25	0	22.17	22.01	21.84	21.17	21.01	20.85				

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
			Conducted power(dBm)								
BW (MHz)	RB	RB		QPSK			16QAM				
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel			
	Size	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
			23060	23095	23130	23060	23095	23130			
	1	0	22.94	22.94	23.39	22.16	21.97	22.21			
10	1	49	23.08	22.97	22.98	22.33	22.23	21.89			
10	25	12	22.15	22.14	21.98	21.24	21.12	21.06			
	50	0	22.04	22.08	21.95	21.04	21.03	20.90			

LTE Band 13

	LTI	E Band	13_Uplin	k frequen	icy band	: 777 to 78	87 MHz			LTE Band 13_Uplink frequency band : 777 to 787 MHz				
				С	onducted	power(dBr	n)					Condu	ucted power(dBm)	
BW	RB	RB	QPSK		16 QAM		BW	RB	RB	QPSK 16 QAM				
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel	(MHz)	Size	Offset	Channel	Channel	
(11112)	0120	Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(111112)	0120	Unser	(Mid)	(Mid)	
			23205	23230	23255	23205	23230	23255				23230	23230	
	1	0	20.78	22.61	22.79	20.18	22.16	21.78		1	0	21.70	20.34	
5	1	24	22.81	22.53	22.67	22.24	21.86	22.22	10	1	49	22.66	22.26	
5	12	6	21.75	21.78	21.33	20.79	20.72	20.39	10	25	12	21.85	20.60	
	25	0	21.75	21.64	21.69	20.87	20.78	20.69		50	0	21.91	20.80	

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	LTE Band 25_Uplink frequency band : 1850 to 1910 MHz												
			Conducted power(dBm)										
BW	RB	RB		QPSK			16QAM						
вvv (MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel					
(IVIFIZ)	SIZE	Unset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			26047	26365	26886	26047	26365	26886					
	1	0	20.79	19.91	20.14	19.83	19.21	18.96					
1.4	1	5	20.73	20.41	19.74	19.88	18.98	18.99					
1.4	3	2	20.83	20.20	19.93	19.83	19.35	19.04					
	6	0	19.60	19.15	18.70	18.71	18.07	17.62					

	LTE Band 25_Uplink frequency band : 1850 to 1910 MHz											
				Conducted power(dBm)								
BW (MHz)	RB Size	RB		QPSK			16QAM					
		Offset	Channel	Channel	Channel	Channel	Channel	Channel				
		Unset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			26065	26365	26665	26065	26365	26665				
	1	0	20.97	20.50	20.27	20.01	19.53	19.33				
5	1	24	20.81	20.28	19.92	19.88	19.55	18.86				
5	12	6	19.70	19.26	19.11	18.81	18.29	18.17				
	25	0	19.77	19.15	19.06	18.82	18.19	18.06				

	LTE Band 25_Uplink frequency band : 1850 to 1910 MHz											
				C	onducted	power(dB	m)					
BW	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(IVITZ)		Unset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			26115	26365	26615	26115	26365	26615				
	1	0	20.88	20.51	19.88	20.34	19.95	19.42				
15	1	74	20.31	20.11	19.73	19.76	19.47	19.21				
10	36	19	19.90	19.38	19.03	18.95	18.35	17.99				
	75	0	19.75	19.32	19.02	18.80	18.28	18.10				

	LTE B	and 25_L	Jplink fre	quency b	oand : 18	50 to 19 ⁻	10 MHz					
				Conducted power(dBm)								
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channe	Channe	Channe	Channe	Channe	Channe				
		Oliset	I (Low)	I (Mid)	I (High)	I (Low)	I (Mid)	I (High)				
			26055	26365	26675	26055	26365	26675				
	1	0	21.13	20.28	19.91	19.83	19.10	18.83				
3	1	14	20.63	20.10	19.84	19.72	19.20	18.81				
5	8	4	19.90	19.24	18.95	19.12	18.40	18.11				
	15	0	19.81	19.24	18.85	18.83	18.25	17.77				

	LTE Band 25_Uplink frequency band : 1850 to 1910 MHz												
			Conducted power(dBm)										
BW (MHz)	RB	RB		QPSK			16QAM						
	Size	Offset	Channe	Channe	Channe	Channe	Channe	Channe					
			I (Low)	I (Mid)	I (High)	I (Low)	I (Mid)	I (High)					
			26090	26365	26640	26090	26365	26640					
	1	0	20.95	20.44	20.12	20.37	19.88	19.67					
10	1	49	20.63	20.21	20.00	20.22	19.68	19.57					
10	25	12	19.66	19.25	18.84	18.71	18.29	17.74					
	50	0	19.74	19.21	18.91	18.71	18.18	17.85					

	LTE B	and 25_L	Jplink fre	quency b	oand : 18	50 to 191	IO MHz	LTE Band 25_Uplink frequency band : 1850 to 1910 MHz											
				Conducted power(dBm)															
BW (MHz)	RB Size	RB		QPSK			16QAM												
		Offset	Channe	Channe	Channe	Channe	Channe	Channe											
		Unser	I (Low)	I (Mid)	I (High)	I (Low)	I (Mid)	I (High)											
			26115	26365	26615	26115	26365	26615											
	1	0	20.96	20.53	19.89	20.34	19.76	19.39											
20	1	99	20.40	19.95	19.64	19.84	19.28	19.27											
20	50	25	19.73	19.30	18.92	18.65	18.35	18.02											
	100	0	19.72	19.30	19.02	18.78	18.36	18.04											



	LTE Band 26_Uplink frequency band : 824 to 849 MHz												
			Conducted power(dBm)										
BW	RB	RB		QPSK			16QAM						
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel					
(11112)	5120	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			26797	26915	27033	26797	26915	27033					
	1	0	22.96	23.20	23.13	22.16	22.26	21.96					
1.4	1	5	22.95	23.16	23.19	21.93	22.26	22.03					
1.4	3	2	23.13	23.05	22.97	22.22	22.36	22.04					
	6	0	22.07	22.02	21.90	20.99	20.95	20.81					

	LTE Band 26_Uplink frequency band : 824 to 849 MHz												
				C	onducted	power(dB	m)						
BW (MHz)	RB Size	RB		QPSK			16QAM						
		Offset	Channel	Channel	Channel	Channel	Channel	Channel					
			(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			26815	26915	27015	26815	26915	27015					
	1	0	22.99	22.59	22.47	22.19	21.50	21.76					
5	1	24	22.80	22.43	22.39	22.37	21.78	21.84					
5	12	6	21.96	21.52	21.52	20.82	20.48	20.49					
	25	0	21.86	21.47	21.52	20.70	20.42	20.38					

	LTE Band 26_Uplink frequency band : 824 to 849 MHz												
			Conducted power(dBm)										
BW (MHz)	RB Size	RB		QPSK			16QAM						
		Offset	Channel	Channel	Channel	Channel	Channel	Channel					
		Oliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			26865	26915	26965	26865	26915	26965					
	1	0	22.78	22.74	22.44	22.15	21.86	21.77					
15	1	74	22.27	22.37	22.59	21.65	21.61	21.60					
15	36	19	21.68	21.55	21.52	20.68	20.54	20.46					
	75	0	21.47	21.47	21.36	20.48	20.47	20.47					

	LTE Band 26_Uplink frequency band : 824 to 849 MHz												
				Conducted power(dBm)									
BW (MHz)	RB	RB Offset		QPSK		16QAM							
	Size		Channe	Channe	Channe	Channe	Channe	Channe					
			I (Low)	I (Mid)	I (High)	I (Low)	I (Mid)	I (High)					
			26805	26915	27025	26805	26915	27025					
	1	0	22.96	22.52	22.46	22.33	21.97	21.92					
3	1	14	23.11	22.42	22.68	22.18	21.38	21.70					
5	8	4	21.91	21.50	21.56	20.94	20.65	20.52					
	15	0	21.96	21.58	21.45	20.79	20.50	20.31					

	LTE Band 26_Uplink frequency band : 824 to 849 MHz											
				Conducted power(dBm)								
BW (MHz)	RB	RB		QPSK		16QAM						
	Size	Offset	Channe	Channe	Channe	Channe	Channe	Channe				
			I (Low)	I (Mid)	I (High)	I (Low)	I (Mid)	I (High)				
			26840	26915	26990	26840	26915	26990				
	1	0	22.96	22.65	22.62	22.30	22.14	21.96				
10	1	49	22.67	22.46	22.46	21.96	21.68	21.96				
10	25	12	21.81	21.38	21.49	20.74	20.44	20.44				
	50	0	21.71	21.44	21.47	20.67	20.39	20.43				



LTE Band 26 for Part90S

	LTE Band 26_Uplink frequency band : 814 to 824 MHz												
				Conducted power(dBm)									
BW	RB	RB		QPSK			16QAM						
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel					
(11112)	SIZE	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			26697	26740	26783	26697	26740	26783					
	1	0	23.04	23.06	23.12	22.17	22.16	22.12					
1.4	1	5	22.92	22.98	23.06	22.04	22.03	22.07					
1.4	3	2	22.79	22.91	22.73	21.95	21.88	21.74					
	6	0	21.94	21.73	21.59	20.78	20.66	20.67					

	LTE Band 26_Uplink frequency band : 814 to 824 MHz											
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(11112)	0126	Unset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			26705	26740	26775	26705	26740	26775				
	1	0	22.95	22.85	22.73	22.27	22.24	22.25				
3	1	14	22.77	22.76	22.54	22.29	22.05	22.12				
5	8	4	21.77	21.69	21.64	20.72	20.64	20.71				
	15	0	21.64	21.68	21.54	20.68	20.57	20.56				

	LTE Band 26_Uplink frequency band : 814 to 824 MHz												
				Conducted power(dBm)									
BW	RB	RB		QPSK			16QAM						
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel					
(IVITZ)	Size	Uliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			26715	26740	26765	26715	26740	26765					
	1	0	22.94	22.95	22.71	22.13	22.13	22.07					
5	1	24	22.78	22.88	22.64	21.87	21.93	21.81					
5	12	6	21.80	21.76	21.62	20.64	20.70	20.64					
	25	0	21.62	21.60	21.64	20.53	20.58	20.59					

	LT	E Band 2	6_Uplink	frequency	/ band : 8'	14 to 824	MHz				
	RB Size			Conducted power(dBm)							
BW (MHz)		RB		QPSK			16QAM				
		Offset		Channel			Channel				
(IVIFIZ)		Unset		(Mid)			(Mid)				
				20525			20525				
	1	0		22.86			22.23				
10	1	49		22.77			22.04				
10	25	12		21.73			20.74				
	50	0		21.72			20.68				

LTE Band 30

	LTE B	and 30_	Uplink fr	equency	band : 23	07.5 to 2	312.5 MH	z		LTE Band 30_Uplink frequency band : 2307.5 to 2312.5 MHz							
				C	onducted	power(dB	m)						C	onducted	power(dBn	n)	
BW	/ RB RB	RR	QPSK			16 QAM			BW	RB	RB		QPSK			16 QAM	
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel	(MHz)		Size Offset		Channel			Channel	
(11112)	0126	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(11112)	0126	Oliset		(Mid)			(Mid)	
			27685	27710	27735	27685	27710	27735					27710			27710	
	1	0	21.65	21.54	21.55	20.78	21.01	21.06		1	0		21.76			21.16	
5	1	24	21.70	21.53	21.35	21.21	20.95	20.46	10	1	49		21.67			21.02	
5	12	6	20.60	20.61	20.51	19.72	19.65	19.53	10	25	12		20.63			19.53	
	25	0	20.59	20.56	20.45	19.65	19.56	19.51		50	0		20.64			19.58	



	LTE Band 41_Uplink frequency band : 2496 to 2690 MHz												
				Conducted power(dBm)									
BW	RB	RB		QPSK			16QAM						
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel					
(11112)	SIZE	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
			40165	40690	41215	40165	40690	41215					
	1	0	21.78	21.38	21.58	21.28	21.07	21.14					
5	1	24	21.59	21.33	21.54	21.09	20.93	21.06					
5	12	6	20.63	20.45	20.74	19.76	19.64	19.83					
	25	0	20.51	20.37	20.69	19.50	19.32	19.61					

	LTE	E Band 41	_Uplink f	requency	band : 249	6 to 2690	MHz					
			Conducted power(dBm)									
BW (MHz)	RB	RB		QPSK			16QAM					
	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(11112)	SIZE	Uliset	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			40190	40690	41190	40190	40690	41190				
	1	0	21.52	21.29	21.57	21.23	20.95	21.07				
10	1	49	21.38	21.24	21.36	20.85	20.82	20.88				
10	25	12	20.53	20.48	20.68	19.56	19.48	19.59				
	50	0	20.44	20.42	20.63	19.51	19.43	19.53				

	LTE Band 41_Uplink frequency band : 2496 to 2690 MHz											
			Conducted power(dBm)									
BW	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(11112)	0120	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			40215	40690	41165	40215	40690	41165				
	1	0	21.43	21.32	21.66	21.03	20.93	21.15				
15	1	74	21.12	21.23	21.28	20.66	20.85	20.83				
15	36	19	20.38	20.59	20.65	19.41	19.67	19.71				
	75	0	20.31	20.54	20.53	19.34	19.55	19.62				

	LTE	E Band 41	_Uplink f	requency	band : 249	96 to 2690	MHz					
			Conducted power(dBm)									
BW	RB	RB		QPSK			16QAM					
(MHz)	Size	Offset	Channel	Channel	Channel	Channel	Channel	Channel				
(1011 12)	SIZE	Unser	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)				
			40240	40690	41140	40240	40690	41140				
	1	0	21.32	21.25	21.34	20.74	20.57	20.56				
20	1	99	21.57	21.29	21.22	20.98	20.81	20.53				
20	50	25	20.54	20.63	20.38	19.60	19.67	19.42				
	100	0	20.52	20.52	20.36	19.58	19.64	19.38				



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	βc	β _d	β₀ (SF)	β₀∕β₀	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

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

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Results:

Mode	Sub-test	-	Power (d Channel	lBm)	Power Class 3 Lim-	Comments
		9262	9400	9538	itation (dBm)	
	1	23.38	22.83	22.33	20.3dBm – 25.7dBm	Pass
HSDPA	2	23.4	22.81	22.35	20.3dBm – 25.7dBm	Pass
(B2)	3	22.87	22.32	21.82	19.8dBm – 25.7dBm	Pass
	4	22.85	22.31	21.79	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim-	Comments
		4132	4183	4233	itation (dBm)	
	1	22.27	22.39	22.19	20.3dBm – 25.7dBm	Pass
HSDPA	2	22.24	22.36	22.14	20.3dBm – 25.7dBm	Pass
(B5)	3	21.76	21.78	22.22	19.8dBm – 25.7dBm	Pass
	4	21.74	21.74	22.15	19.8dBm – 25.7dBm	Pass



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	βc	βd	β _d (SF)	βc/βd	βнs	β _{ec}	β_{ed}	β _{ed} (SF)	β _{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 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		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.

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim-	Comments
		9262	9400	9538	itation (dBm)	
	1	23.36	22.83	22.3	18.8dBm – 25.7dBm	Pass
	2	22.79	22.28	21.75	16.8dBm – 25.7dBm	Pass
HSUPA(B2)	3	23.38	22.82	22.29	17.8dBm – 25.7dBm	Pass
	4	23.34	22.77	22.29	16.8dBm – 25.7dBm	Pass
	5	23.38	22.84	22.31	18.8dBm – 25.7dBm	Pass

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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Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim-	Comments
		4132	4183	4233	itation (dBm)	
	1	22.3	22.32	22.08	18.8dBm – 25.7dBm	Pass
	2	22.73	22.78	22.58	16.8dBm – 25.7dBm	Pass
HSUPA(B5)	3	22.29	22.32	22.09	17.8dBm – 25.7dBm	Pass
	4	22.25	22.33	22.15	16.8dBm – 25.7dBm	Pass
	5	22.31	22.34	22.19	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, V

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

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

According to FCC §2.1046

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

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

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

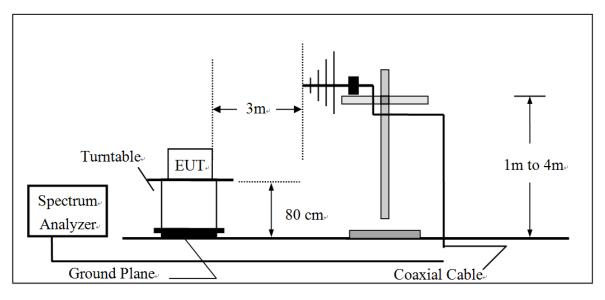
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

7.2. Test SET-UP

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



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

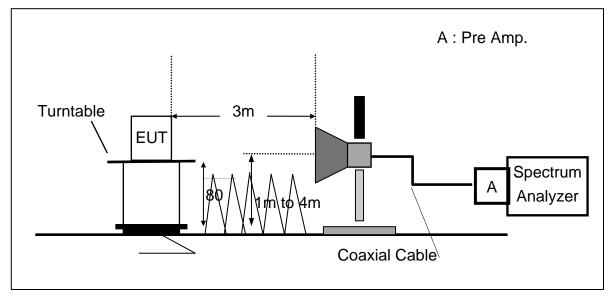
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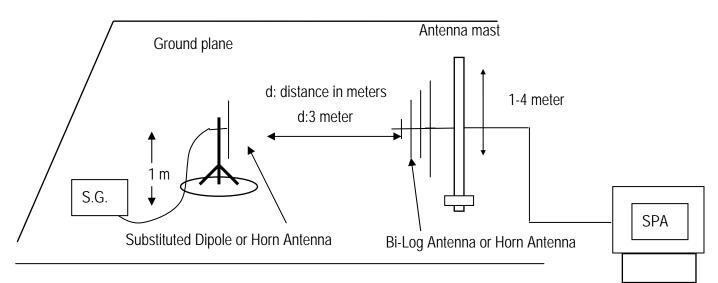
SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



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



(C) Substituted Method Test Set-UP





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 calculated
- 4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
- 5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- 6. ERP = S.G. output (dBm) + Antenna Gain (dBd) Cable Loss (dB)
- 7. ERP = S.G. output (dBm) + Antenna Gain (dBd) 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 = 601 points, 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

ERP,	EIRP MEASUREM	ENT EQUIPME	NT List 966 Ch	amber	
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	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
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.



	EUT			Measurement								
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit				
	MHz		V/H	dBm	dBi	dB	dBm	dBm				
	1852.4	9262	V	26.49	9.6	-5.05	31.04	33.00				
	1002.4	9202	Н	15.44	9.6	-5.05	19.99	33.00				
WCDMA	1880.0 1907.6	9400	V	26.57	9.69	-5.16	31.10	33.00				
Band II			Н	14.03	9.69	-5.16	18.56	33.00				
		9538	V	25.82	9.78	-5.12	30.48	33.00				
			Н	13.12	9.78	-5.12	17.78	33.00				
	1852.4	9262	V	19.23	9.6	-5.05	23.78	33.00				
			Н	10.7	9.6	-5.05	15.25	33.00				
HSDPA	1880.0	9400	V	19.32	9.7	-5.16	23.86	33.00				
Band II	1000.0		Н	9.32	9.7	-5.16	13.86	33.00				
	1907.6	9538	V	19.1	9.78	-5.12	23.76	33.00				
	1907.0	9000	Н	14.2	9.78	-5.12	18.86	33.00				
	1852.4	9262	V	20.31	9.6	-5.05	24.86	33.00				
	1002.4	9202	Н	12.89	9.6	-5.05	17.44	33.00				
HSUPA	1880.0	9400	V	17.18	9.69	-5.16	21.71	33.00				
Band II	1000.0	3400	Н	12.46	9.69	-5.16	16.99	33.00				
	1907.6	9538	V	17.96	9.78	-5.12	22.62	33.00				
			Н	12.1	9.78	-5.12	16.76	33.00				

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

Remark: The RBW, VBW of SPA for frequency RBW=5 MHz, VBW=8 MHz



	EUT				Measur	ement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	826.4	4132	V	21.50	5.48	-3.21	23.77	38.45
	020.4	4132	Н	18.33	5.48	-3.21	20.60	38.45
WCDMA	836.6 846.6	4183 4233	V	21.59	5.47	-3.26	23.80	38.45
Band V			Н	19.51	5.47	-3.26	21.72	38.45
			V	20.93	5.45	-3.19	23.19	38.45
			Н	19.37	5.45	-3.19	21.63	38.45
	826.4	4132	V	18.35	5.48	-3.21	20.62	38.45
			Н	17.92	5.48	-3.21	20.19	38.45
HSDPA	836.6	4183	V	20.90	5.47	-3.25	23.12	38.45
Band V	030.0		Н	19.17	5.47	-3.25	21.39	38.45
	846.6	4233	V	20.03	5.45	-3.10	22.38	38.45
	040.0	4200	Н	16.87	5.45	-3.10	19.22	38.45
	826.4	4132	V	20.39	5.48	-3.21	22.66	38.45
	020.4	4152	Н	16.49	5.48	-3.21	18.76	38.45
HSUPA	836.6	4183	V	20.65	5.47	-3.27	22.85	38.45
Band V	030.0	+105	Н	17.97	5.47	-3.27	20.17	38.45
	846.6	4233	V	19.01	5.45	-3.16	21.30	38.45
	040.0	+200	Н	12.97	5.45	-3.16	15.26	38.45

Remark: The RBW, VBW of SPA for frequency RBW=5 MHz, VBW=8 MHz



	EUT		Measurement						
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit	
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
	1950 7	19607	V	25.27	9.59	-5.04	29.82	33.01	
BAND 2	1850.7	10007	Н	16.78	9.59	-5.04	21.33	33.01	
BW: 1.4M	1880.0	18900	V	25.49	9.69	-5.15	30.03	33.01	
QPSK	1000.0		Н	17.04	9.69	-5.15	21.58	33.01	
RB: 1,0	1909.3	10103	V	22.98	9.79	-5.13	27.64	33.01	
	1909.5	19190	Н	17.40	9.79	-5.13	22.06	33.01	
	1850.7	18607	V	25.16	9.60	-5.05	29.71	33.01	
BAND 2 BW: 1.4M QPSK	1000.7	18607	Н	16.16	9.60	-5.05	20.71	33.01	
	1880.0	18000	V	25.79	9.70	-5.16	30.33	33.01	
	1000.0	10000	Н	16.95	9.70	-5.16	21.49	33.01	
RB: 1,5	1909.3	10103	V	24.68	9.79	-5.13	29.34	33.01	
	1000.0	10100	Н	17.39	9.79	-5.13	22.05	33.01	
	1850.7	18607	V	26.68	9.59	-5.05	31.22	33.01	
BAND 2	1000.7	10007	Н	16.77	9.59	-5.05	21.31	33.01	
BW: 1.4M	1880.0	18900	V	21.50	9.69	-5.15	26.04	33.01	
16QAM	1000.0	10000	Н	17.05	9.69	-5.15	21.59	33.01	
RB: 1,0	1909.3	19193	V	25.12	9.79	-5.13	29.78	33.01	
	1000.0	10100	Н	17.39	9.79	-5.13	22.05	33.01	
	1850.7	18607	V	25.17	9.60	-5.05	29.72	33.01	
BAND 2 BW: 1.4M 16QAM RB: 1,5		18607 18900 19193 18607 18900 19193 18607 18900	Н	16.75	9.60	-5.05	21.30	33.01	
	1880.0	18900	V	25.17	9.69	-5.16	29.70	33.01	
		18900	Н	17.03	9.69	-5.16	21.56	33.01	
	1909.3 191	19193	V	24.20	9.79	-5.13	28.86	33.01	
			H	17.42	9.79	-5.13	22.08	33.01	



	EUT		Measurement							
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit		
	MHz		V/H	dBm	dBi	dB	dBm	dBm		
	1051 5	18615	V	25.21	9.59	-5.05	29.75	33.01		
BAND 2	1851.5	10015	Н	16.33	9.59	-5.05	20.87	33.01		
BW: 3M	1880.0	18900	V	25.57	9.69	-5.15	30.11	33.01		
QPSK	1000.0		Н	17.31	9.69	-5.15	21.85	33.01		
RB: 1,0	1908.5	19185	V	24.69	9.78	-5.12	29.35	33.01		
	1900.5	19105	Н	17.67	9.78	-5.12	22.33	33.01		
	1851.5	18615	V	27.98	9.60	-5.05	32.53	33.01		
BAND 2	BAND 2	10015	Н	15.77	9.60	-5.05	20.32	33.01		
BW: 3M	1880.0	18900	V	27.74	9.70	-5.17	32.27	33.01		
QPSK	1000.0	10300	Н	16.85	9.70	-5.17	21.38	33.01		
RB: 1,14	1908.5	19185	V	26.67	9.79	-5.13	31.33	33.01		
	1300.5		Н	17.45	9.79	-5.13	22.11	33.01		
	1851.5	18615	V	25.14	9.59	-5.05	29.68	33.01		
BAND 2	1001.0	10015	Н	16.05	9.59	-5.05	20.59	33.01		
BW: 3M	1880.0	18900	V	25.75	9.69	-5.15	30.29	33.01		
16QAM	1000.0	10000	Н	17.15	9.69	-5.15	21.69	33.01		
RB: 1,0	1908.5	19185	V	23.25	9.79	-5.12	27.92	33.01		
	1000.0	10100	Н	17.63	9.79	-5.12	22.30	33.01		
	1851.5	18615	V	26.52	9.60	-5.05	31.07	33.01		
BAND 2 BW: 3M			Н	15.61	9.60	-5.05	20.16	33.01		
	1880.0	18900	V	24.64	9.70	-5.16	29.18	33.01		
16QAM		18900	Н	16.98	9.70	-5.16	21.52	33.01		
RB: 1,14	1908.5 191	19185	V	26.40	9.80	-5.13	31.07	33.01		
,			H	17.41	9.80	-5.13	22.08	33.01		



	EUT		Measurement						
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit	
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
	1950 F	10005	V	24.39	9.59	-5.05	28.93	33.01	
BAND 2	1852.5	18625	Н	15.89	9.59	-5.05	20.43	33.01	
BW: 5M	1000.0	18900	V	26.60	9.68	-5.14	31.14	33.01	
QPSK	1880.0	10900	Н	16.05	9.68	-5.14	20.59	33.01	
RB: 1,0	1907.5	19175	V	26.18	9.78	-5.12	30.84	33.01	
	1907.5	19175	Н	15.65	9.78	-5.12	20.31	33.01	
	1852.5	18625	V	21.53	9.61	-5.05	26.09	33.01	
BAND 2	BAND 2	10025	Н	15.69	9.61	-5.05	20.25	33.01	
BW: 5M	1880.0	18900	V	25.15	9.70	-5.17	29.68	33.01	
QPSK	1000.0		Н	15.78	9.70	-5.17	20.31	33.01	
RB: 1,24	1907.5	19175	V	26.20	9.79	-5.13	30.86	33.01	
	1907.5		Н	17.39	9.79	-5.13	22.05	33.01	
	1852.5	18625	V	22.17	9.59	-5.05	26.71	33.01	
BAND 2	1002.0	10023	Н	15.84	9.59	-5.05	20.38	33.01	
BW: 5M	1880.0	18900	V	26.56	9.69	-5.14	31.11	33.01	
16QAM	1000.0	10000	Н	16.10	9.69	-5.14	20.65	33.01	
RB: 1,0	1907.5	19175	V	22.87	9.78	-5.11	27.54	33.01	
	1001.0	10110	Н	18.14	9.78	-5.11	22.81	33.01	
	1852.5	18625	V	24.87	9.61	-5.05	29.43	33.01	
BAND 2	1002.0	10020	Н	15.38	9.61	-5.05	19.94	33.01	
BW: 5M 16QAM	1880.0	18900	V	26.04	9.70	-5.17	30.57	33.01	
			Н	15.01	9.70	-5.17	19.54	33.01	
RB: 1,24	1907.5 191	19175	V	25.68	9.79	-5.13	30.34	33.01	
			Н	17.48	9.79	-5.13	22.14	33.01	



	EUT		Measurement							
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit		
	MHz		V/H	dBm	dBi	dB	dBm	dBm		
	1855.0	18650	V	24.20	9.59	-5.05	28.74	33.01		
BAND 2	1655.0	10000	Н	16.00	9.59	-5.05	20.54	33.01		
BW: 10M	1880.0	18900	V	25.26	9.68	-5.13	29.81	33.01		
QPSK	1000.0		Н	16.76	9.68	-5.13	21.31	33.01		
RB: 1,0	1905.0	19150	V	24.07	9.76	-5.11	28.72	33.01		
	1905.0	19150	Н	18.66	9.76	-5.11	23.31	33.01		
	1855.0	18650	V	22.21	9.62	-5.06	26.77	33.01		
BAND 2		10000	Н	15.62	9.62	-5.06	20.18	33.01		
BW: 10M QPSK	1880.0	18900	V	22.96	9.71	-5.18	27.49	33.01		
	1000.0	10300	Н	16.07	9.71	-5.18	20.60	33.01		
RB: 1,49	1905.0	19150	V	26.09	9.79	-5.13	30.75	33.01		
	1000.0	19150	Н	17.38	9.79	-5.13	22.04	33.01		
	1855.0	18650	V	24.14	9.59	-5.05	28.68	33.01		
BAND 2	1000.0	10000	Н	15.70	9.59	-5.05	20.24	33.01		
BW: 10M	1880.0	18900	V	24.04	9.68	-5.13	28.59	33.01		
16QAM	1000.0	10000	Н	16.20	9.68	-5.13	20.75	33.01		
RB: 1,0	1905.0	19150	V	22.64	9.76	-5.11	27.29	33.01		
	100010	10100	Н	17.03	9.76	-5.11	21.68	33.01		
	1855.0	18650	V	23.00	9.62	-5.06	27.56	33.01		
BAND 2 BW: 10M			Н	15.66	9.62	-5.06	20.22	33.01		
	1880.0	18900	V	24.47	9.71	-5.17	29.01	33.01		
16QAM		18900 -	Н	16.02	9.71	-5.17	20.56	33.01		
RB: 1,49	1905.0 19150	V	24.54	9.79	-5.13	29.20	33.01			
			Н	17.35	9.79	-5.13	22.01	33.01		



	EUT		Measurement						
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit	
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
	1957 5	10675	V	22.20	9.59	-5.05	26.74	33.01	
BAND 2	1857.5	10075	Н	15.94	9.59	-5.05	20.48	33.01	
BW: 15M	1880.0	18900	V	23.67	9.67	-5.12	28.22	33.01	
QPSK	1000.0		Н	16.33	9.67	-5.12	20.88	33.01	
RB: 1,0	1902.5	10125	V	24.31	9.75	-5.12	28.94	33.01	
	1902.0	19120	Н	17.89	9.75	-5.12	22.52	33.01	
	1857.5	18675	V	23.80	9.64	-5.07	28.37	33.01	
BAND 2	ND 2	10073	Н	14.68	9.64	-5.07	19.25	33.01	
BW: 15M QPSK	1880.0	18900	V	24.85	9.71	-5.16	29.40	33.01	
	1000.0	18900	Н	16.06	9.71	-5.16	20.61	33.01	
RB: 1,74	1902.5	19125	V	21.32	9.79	-5.13	25.98	33.01	
	1002.0		Н	16.96	9.79	-5.13	21.62	33.01	
	1857.5	18675	V	21.71	9.59	-5.05	26.25	33.01	
BAND 2	1007.0	10070	Н	15.66	9.59	-5.05	20.20	33.01	
BW: 15M	1880.0	18900	V	23.63	9.67	-5.11	28.19	33.01	
16QAM	1000.0	10000	Н	15.29	9.67	-5.11	19.85	33.01	
RB: 1,0	1902.5	19125	V	25.98	9.75	-5.12	30.61	33.01	
	1002.0	19125 - 18675 - 18900 - 19125 -	Н	18.12	9.75	-5.12	22.75	33.01	
	1857.5	18675	V	21.70	9.64	-5.07	26.27	33.01	
BAND 2 BW: 15M 16QAM RB: 1,74		CH 18675 18900 19125 18675 18900 19125 18675 18900	Н	14.73	9.64	-5.07	19.30	33.01	
	1880.0	18900	V	23.32	9.71	-5.17	27.86	33.01	
		18900 -	Н	15.92	9.71	-5.17	20.46	33.01	
	1902.5 1	19125	V	24.84	9.79	-5.13	29.50	33.01	
			Н	16.54	9.79	-5.13	21.20	33.01	



	EUT				Measur	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1860.0	18700	V	24.27	9.59	-5.04	28.82	33.01
BAND 2	1000.0	10700	Н	13.99	9.59	-5.04	18.54	33.01
BW: 20M	1880.0	18900	V	23.67	9.66	-5.10	28.23	33.01
QPSK	1000.0	10900	Н	15.94	9.66	-5.10	20.50	33.01
RB: 1,0	1900.0	19100	V	24.97	9.73	-5.15	29.55	33.01
	1900.0	19100	Н	15.88	9.73	-5.15	20.46	33.01
	1860.0	18700	V	22.24	9.66	-5.90	26.00	33.01
BAND 2		10700	Н	15.33	9.66	-5.90	19.09	33.01
BW: 20M QPSK	1880.0	18900	V	24.19	9.72	-5.15	28.76	33.01
	1000.0	10000	Н	15.29	9.72	-5.15	19.86	33.01
RB: 1,99	1900.0	19100	V	21.66	9.79	-5.13	26.32	33.01
	1000.0		Н	16.71	9.79	-5.13	21.37	33.01
	1860.0	18700	V	22.16	9.59	-5.05	26.70	33.01
BAND 2	1000.0		Н	15.52	9.59	-5.05	20.06	33.01
BW: 20M	1880.0	18900	V	23.44	9.66	-5.10	28.00	33.01
16QAM	1000.0	10000	Н	15.00	9.66	-5.10	19.56	33.01
RB: 1,0	1900.0	19100	V	25.39	9.73	-5.15	29.97	33.01
		10100	Н	15.88	9.73	-5.15	20.46	33.01
	1860.0	18700	V	23.75	9.66	-5.09	28.32	33.01
BAND 2 BW: 20M			Н	15.57	9.66	-5.09	20.14	33.01
	1880.0	18900	V	25.08	9.72	-5.15	29.65	33.01
16QAM		18900	Н	16.38	9.72	-5.15	20.95	33.01
RB: 1,99	1900.0	19100	V	23.99	9.79	-5.13	28.65	33.01
			Н	16.99	9.79	-5.13	21.65	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1710 7	10057	V	23.42	9.12	-4.82	27.72	30.00
BAND 4	1710.7	19957	Н	9.63	9.12	-4.82	13.93	30.00
BW: 1.4M	1732.5	20175	V	22.29	9.19	-4.85	26.63	30.00
QPSK	1752.5	20175	Н	8.31	9.19	-4.85	12.65	30.00
RB: 1,0	1754.3	20393	V	20.89	9.27	-4.91	25.25	30.00
	1704.0	20000	Н	5.04	9.27	-4.91	9.40	30.00
	1710.7	19957	V	23.24	9.12	-4.82	27.54	30.00
BAND 4	1710.7	10007	Н	9.37	9.12	-4.82	13.67	30.00
BW: 1.4M QPSK	1732.5	20175	V	22.08	9.19	-4.86	26.41	30.00
		20170	Н	8.01	9.19	-4.86	12.34	30.00
RB: 1,5	1754.3	20393	V	20.48	9.27	-4.91	24.84	30.00
		20393	Н	4.65	9.27	-4.91	9.01	30.00
	1710.7	19957	V	23.16	9.12	-4.82	27.46	30.00
BAND 4		10007	Н	9.41	9.12	-4.82	13.71	30.00
BW: 1.4M	1732.5	20175	V	22.12	9.19	-4.86	26.45	30.00
16QAM		20110	Н	8.22	9.19	-4.86	12.55	30.00
RB: 1,0	1754.3	20393	V	20.83	9.26	-4.91	25.18	30.00
			Н	5.05	9.26	-4.91	9.40	30.00
	1710.7	19957	V	23.21	9.12	-4.82	27.51	30.00
	BAND 4		Н	9.33	9.12	-4.82	13.63	30.00
BW: 1.4M 16QAM RB: 1,5	1732.5	20175	V	21.93	9.19	-4.85	26.27	30.00
			Н	7.97	9.19	-4.85	12.31	30.00
	1754.3	20393	V	20.34	9.27	-4.91	24.70	30.00
			H	4.65	9.27	-4.91	9.01	30.00



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1711.5	19965	V	25.36	9.12	-4.82	29.66	30.00
BAND 4	1711.5	19905	Н	17.68	9.12	-4.82	21.98	30.00
BW: 3M	1732.5	20175	V	24.72	9.19	-4.85	29.06	30.00
QPSK	1732.5	20175	Н	15.79	9.19	-4.85	20.13	30.00
RB: 1,0	1753.5	20385	V	24.86	9.26	-4.91	29.21	30.00
	1700.0	20000	Н	15.28	9.26	-4.91	19.63	30.00
	1711.5	19965	V	22.86	9.12	-4.82	27.16	30.00
BAND 4	1711.5	10000	Н	17.86	9.12	-4.82	22.16	30.00
BW: 3M QPSK RB: 1,14	1732.5	20175	V	21.78	9.20	-4.86	26.12	30.00
	1702.0	20175	Н	15.36	9.20	-4.86	19.70	30.00
	1753.5	20385	V	19.72	9.27	-4.91	24.08	30.00
	1100.0	20000	Н	14.30	9.27	-4.91	18.66	30.00
	1711.5	19965	V	22.96	9.12	-4.82	27.26	30.00
BAND 4		10000	Н	17.60	9.12	-4.82	21.90	30.00
BW: 3M	1732.5	20175	V	22.07	9.19	-4.85	26.41	30.00
16QAM	1102.0	20110	Н	15.80	9.19	-4.85	20.14	30.00
RB: 1,0	1753.5	20385	V	20.96	9.26	-4.91	25.31	30.00
		20000	Н	15.45	9.26	-4.91	19.80	30.00
	1711.5	19965	V	22.66	9.13	-4.82	26.97	30.00
BAND 4	BAND 4		Н	17.82	9.13	-4.82	22.13	30.00
BW: 3M 16QAM RB: 1,14	1732.5	20175	V	21.80	9.20	-4.87	26.13	30.00
			Н	15.40	9.20	-4.87	19.73	30.00
	1753.5	20385	V	19.87	9.26	-4.91	24.22	30.00
			Н	15.88	9.26	-4.91	20.23	30.00



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1712.5	19975	V	24.05	9.12	-4.82	28.35	30.00
BAND 4	1712.0	19975	Н	13.75	9.12	-4.82	18.05	30.00
BW: 5M	1732.5	20175	V	23.95	9.18	-4.85	28.28	30.00
QPSK	1752.5	20175	Н	13.79	9.18	-4.85	18.12	30.00
RB: 1,0	1752.5	20375	V	23.00	9.25	-4.91	27.34	30.00
	1702.0	20010	Н	13.40	9.25	-4.91	17.74	30.00
	1712.5	19975	V	23.13	9.13	-4.83	27.43	30.00
BAND 4	1712.5	19910	Н	13.16	9.13	-4.83	17.46	30.00
BW: 5M	/32.5	20175	V	23.35	9.20	-4.86	27.69	30.00
QPSK	1702.0	20175	Н	13.87	9.20	-4.86	18.21	30.00
RB: 1,24	1752.5	20375	V	21.39	9.26	-4.91	25.74	30.00
	1702.0	20010	Н	12.30	9.26	-4.91	16.65	30.00
	1712.5	19975	V	23.67	9.12	-4.82	27.97	30.00
BAND 4	1112.0	10010	Н	13.43	9.12	-4.82	17.73	30.00
BW: 5M	1732.5	20175	V	23.85	9.18	-4.85	28.18	30.00
16QAM	1102.0	20170	Н	13.78	9.18	-4.85	18.11	30.00
RB: 1,0	1752.5	20375	V	22.95	9.25	-4.91	27.29	30.00
	1102.0	20010	Н	13.34	9.25	-4.91	17.68	30.00
	1712 5	19975	V	23.22	9.13	-4.83	27.52	30.00
BAND 4	BAND 4 1712.5	10010	Н	13.36	9.13	-4.83	17.66	30.00
BW: 5M 16QAM RB: 1,24	1732.5	20175	V	23.26	9.20	-4.86	27.60	30.00
			Н	13.88	9.20	-4.86	18.22	30.00
	1752.5	20375	V	21.40	9.27	-4.91	25.76	30.00
			Н	12.41	9.27	-4.91	16.77	30.00



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	4745.0	20000	V	23.89	9.12	-4.82	28.19	30.00
BAND 4	1715.0	20000	Н	15.06	9.12	-4.82	19.36	30.00
BW: 10M	1722.5	20175	V	22.78	9.18	-4.85	27.11	30.00
QPSK	1732.5	20175	Н	13.68	9.18	-4.85	18.01	30.00
RB: 1,0	1750.0	20350	V	23.53	9.23	-4.90	27.86	30.00
	1750.0	20330	Н	12.83	9.23	-4.90	17.16	30.00
	1715.0	20000	V	23.44	9.15	-4.83	27.76	30.00
BAND 4	1713.0	20000	Н	14.02	9.15	-4.83	18.34	30.00
BW: 10M QPSK	1732.5	20175	V	22.83	9.20	-4.87	27.16	30.00
	1702.0	20175	Н	13.86	9.20	-4.87	18.19	30.00
RB: 1,49	1750.0	20350	V	20.55	9.27	-4.91	24.91	30.00
	1700.0	20350	Н	10.81	9.27	-4.91	15.17	30.00
	1715.0	20000	V	23.97	9.12	-4.82	28.27	30.00
BAND 4		20000	Н	15.19	9.12	-4.82	19.49	30.00
BW: 10M	1732.5	20175	V	22.80	9.18	-4.84	27.14	30.00
16QAM		20110	Н	13.66	9.18	-4.84	18.00	30.00
RB: 1,0	1750.0	20350	V	23.65	9.23	-4.90	27.98	30.00
			Н	12.88	9.23	-4.90	17.21	30.00
	1715.0	20000	V	23.45	9.15	-4.83	27.77	30.00
BAND 4	BAND 4 1/15.0		Н	13.97	9.15	-4.83	18.29	30.00
BW: 10M 16QAM RB: 1,49	1732.5	20175	V	22.79	9.21	-4.87	27.13	30.00
			Н	13.88	9.21	-4.87	18.22	30.00
	1750.0	20350	V	20.67	9.27	-4.91	25.03	30.00
			H	11.02	9.27	-4.91	15.38	30.00



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1717.5	20025	V	22.83	9.12	-4.82	27.13	30.00
BAND 4	1717.5	20025	Н	18.70	9.12	-4.82	23.00	30.00
BW: 15M	1732.5	20175	V	21.96	9.17	-4.84	26.29	30.00
QPSK	1732.5	20175	Н	17.24	9.17	-4.84	21.57	30.00
RB: 1,0	1747.5	20325	V	21.38	9.22	-4.88	25.72	30.00
	1747.5	20323	Н	17.24	9.22	-4.88	21.58	30.00
	1717.5	20025	V	22.98	9.16	-4.84	27.30	30.00
BAND 4	1717.5	20025	Н	14.55	9.16	-4.84	18.87	30.00
BW: 15M 1732	1732 5	20175	V	23.04	9.21	-4.88	27.37	30.00
	1702.0	20175	Н	14.35	9.21	-4.88	18.68	30.00
RB: 1,74	1747.5	20325	V	21.29	9.26	-4.91	25.64	30.00
	1747.5	20175 20325 20025	Н	11.39	9.26	-4.91	15.74	30.00
	1717.5	20025	V	23.42	9.12	-4.82	27.72	30.00
BAND 4		20025	Н	15.69	9.12	-4.82	19.99	30.00
BW: 15M	1732.5	20175	V	23.39	9.17	-4.84	27.72	30.00
16QAM	1102.0	20110	Н	14.75	9.17	-4.84	19.08	30.00
RB: 1,0	1747.5	20325	V	23.73	9.22	-4.88	28.07	30.00
		20020	Н	14.35	9.22	-4.88	18.69	30.00
	1717.5	20025	V	23.52	9.16	-4.84	27.84	30.00
BAND 4	BAND 4 1717.5 200	20020	Н	14.21	9.16	-4.84	18.53	30.00
BW: 15M 16QAM RB: 1,74	1732.5	20175	V	23.31	9.22	-4.88	27.65	30.00
		20110	Н	14.08	9.22	-4.88	18.42	30.00
	1747.5	20325	V	21.05	9.26	-4.91	25.40	30.00
		20020	Н	11.20	9.26	-4.91	15.55	30.00



	EUT				Measur	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1720.0	20050	V	21.81	9.12	-4.82	26.11	30.00
BAND 4	1720.0	20030	Н	9.29	9.12	-4.82	13.59	30.00
BW: 20M	1732.5	20175	V	21.46	9.16	-4.84	25.78	30.00
QPSK	1732.5	20175	Н	10.91	9.16	-4.84	15.23	30.00
RB: 1,0	1745.0	20300	V	21.99	9.20	-4.87	26.32	30.00
	1743.0	20300	Н	9.85	9.20	-4.87	14.18	30.00
	1720.0	20050	V	21.68	9.18	-4.85	26.01	30.00
BAND 4	1720.0	20000	Н	10.29	9.18	-4.85	14.62	30.00
BW: 20M QPSK	1732.5	20175	V	22.49	9.22	-4.88	26.83	30.00
	1102.0	20170	Н	10.72	9.22	-4.88	15.06	30.00
RB: 1,99	1745.0	20300	V	18.66	9.26	-4.91	23.01	30.00
	11-10.0	20300	Н	8.62	9.26	-4.91	12.97	30.00
	1720.0	20050	V	22.14	9.11	-4.82	26.43	30.00
BAND 4	1120.0	20000	Н	9.29	9.11	-4.82	13.58	30.00
BW: 20M	1732.5	20175	V	22.07	9.16	-4.84	26.39	30.00
16QAM		20110	Н	10.76	9.16	-4.84	15.08	30.00
RB: 1,0	1745.0	20300	V	21.95	9.20	-4.86	26.29	30.00
		20000	Н	9.81	9.20	-4.86	14.15	30.00
	1720.0	20050	V	21.75	9.18	-4.85	26.08	30.00
BAND 4	BAND 4 1720.0		Н	10.35	9.18	-4.85	14.68	30.00
BW: 20M 16QAM RB: 1,99	1732.5	20175	V	22.64	9.22	-4.88	26.98	30.00
			Н	10.15	9.22	-4.88	14.49	30.00
	1745.0	20300	V	18.88	9.26	-4.91	23.23	30.00
			Н	8.82	9.26	-4.91	13.17	30.00



	EUT				Measur	ement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	824.7	20407	V	24.70	5.49	-3.30	26.89	38.45
BAND 5	024.7	20407	Н	21.16	5.49	-3.30	23.35	38.45
BW: 1.4M	836.5	20525	V	23.68	5.47	-3.35	25.80	38.45
QPSK	030.5	20525	Н	21.82	5.47	-3.35	23.94	38.45
RB: 1,0	848.3	20643	V	21.56	5.45	-3.07	23.94	38.45
	040.5	20043	Н	21.08	5.45	-3.07	23.46	38.45
	824.7	20407	V	23.58	5.48	-3.25	25.81	38.45
BAND 5	024.7	20407	Н	20.86	5.48	-3.25	23.09	38.45
BW: 1.4M QPSK	836.5	20525	V	23.25	5.47	-3.28	25.44	38.45
	050.5	20323	Н	21.58	5.47	-3.28	23.77	38.45
RB: 1,5	848.3	20643	V	21.05	5.45	-3.08	23.42	38.45
	040.0	20643	Н	20.18	5.45	-3.08	22.55	38.45
	824.7	20407	V	23.59	5.49	-3.33	25.75	38.45
BAND 5	024.7	20407	Н	18.70	5.49	-3.33	20.86	38.45
BW: 1.4M	836.5	20525	V	22.78	5.47	-3.35	24.90	38.45
16QAM	000.0	20020	Н	18.71	5.47	-3.35	20.83	38.45
RB: 1,0	848.3	20643	V	21.27	5.45	-3.08	23.64	38.45
	0-0.0	20040	Н	19.73	5.45	-3.08	22.10	38.45
	824.7	20407	V	23.26	5.48	-3.22	25.52	38.45
BAND 5	027.1	20401	Н	18.38	5.48	-3.22	20.64	38.45
BW: 1.4M 16QAM RB: 1,5	836.5	20525	V	22.64	5.47	-3.26	24.85	38.45
		20020	Н	18.71	5.47	-3.26	20.92	38.45
	848.3	20643	V	20.44	5.45	-3.10	22.79	38.45
	0.0.0	20010	Н	18.91	5.45	-3.10	21.26	38.45



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	825.5	20415	V	23.45	5.49	-3.32	25.62	38.45
BAND 5	025.5	20415	Н	18.48	5.49	-3.32	20.65	38.45
BW: 3M	836.5	20525	V	22.70	5.47	-3.56	24.61	38.45
QPSK	030.5	20525	Н	18.34	5.47	-3.56	20.25	38.45
RB: 1,0	847.5	20635	V	20.82	5.48	-3.21	23.09	38.45
	047.5	20033	Н	19.35	5.48	-3.21	21.62	38.45
	825.5	20415	V	22.62	5.48	-3.21	24.89	38.45
BAND 5	020.0	20413	Н	17.75	5.48	-3.21	20.02	38.45
BW: 3M QPSK	836.5	20525	V	21.66	5.47	-3.29	23.84	38.45
	000.0	20020	Н	18.14	5.47	-3.29	20.32	38.45
RB: 1,14	847.5	20635	V	20.23	5.45	-3.08	22.60	38.45
	0.110	20635	Н	18.64	5.45	-3.08	21.01	38.45
	825.5	20415	V	22.65	5.48	-3.21	24.92	38.45
BAND 5	020.0	20410	Н	18.20	5.48	-3.21	20.47	38.45
BW: 3M	836.5	20525	V	21.70	5.47	-3.24	23.93	38.45
16QAM	000.0	20020	Н	18.02	5.47	-3.24	20.25	38.45
RB: 1,0	847.5	20635	V	20.53	5.45	-3.16	22.82	38.45
	047.0	20000	Н	19.01	5.45	-3.16	21.30	38.45
	825.5	20415	V	22.69	5.48	-3.21	24.96	38.45
BAND 5	020.0	20110	Н	17.95	5.48	-3.21	20.22	38.45
BW: 3M 16QAM RB: 1,14	836.5	20525	V	21.77	5.47	-3.23	24.01	38.45
			Н	18.12	5.47	-3.23	20.36	38.45
	847.5	20635	V	20.46	5.45	-3.11	22.80	38.45
	0.1.0	20000	Н	18.95	5.45	-3.11	21.29	38.45



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	826.5	20425	V	23.32	5.49	-3.32	25.49	38.45
BAND 5	020.0	20425	Н	18.36	5.49	-3.32	20.53	38.45
BW: 5M	836.5	20525	V	22.73	5.47	-3.37	24.83	38.45
QPSK	030.5	20525	Н	18.04	5.47	-3.37	20.14	38.45
RB: 1,0	846.5	20625	V	19.83	5.46	-3.46	21.83	38.45
	040.0	20025	Н	17.96	5.46	-3.46	19.96	38.45
	826.5	20425	V	22.43	5.48	-3.17	24.74	38.45
BAND 5	020.0	20423	Н	17.47	5.48	-3.17	19.78	38.45
BW: 5M QPSK	836.5	20525	V	21.10	5.47	-3.12	23.45	38.45
	000.0	20020	Н	17.70	5.47	-3.12	20.05	38.45
RB: 1,24	846.5	20625	V	20.41	5.45	-3.08	22.78	38.45
	040.0	20625 -	Н	18.84	5.45	-3.08	21.21	38.45
	826.5	20425	V	23.33	5.49	-3.32	25.50	38.45
BAND 5	020.0	20420	Н	18.51	5.49	-3.32	20.68	38.45
BW: 5M	836.5	20525	V	22.65	5.47	-3.40	24.72	38.45
16QAM	000.0	20020	Н	18.20	5.47	-3.40	20.27	38.45
RB: 1,0	846.5	20625	V	19.81	5.46	-3.46	21.81	38.45
	0 10.0	20020	Н	17.94	5.46	-3.46	19.94	38.45
	826.5	20425	V	22.32	5.48	-3.16	24.64	38.45
BAND 5	BAND 5 826.5	20120	Н	17.43	5.48	-3.16	19.75	38.45
BW: 5M 16QAM RB: 1,24	836.5	20525	V	21.67	5.47	-3.13	24.01	38.45
			Н	17.73	5.47	-3.13	20.07	38.45
	846.5	20625	V	20.53	5.45	-3.11	22.87	38.45
			Н	18.99	5.45	-3.11	21.33	38.45



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	829.0	20450	V	23.12	5.49	-3.34	25.27	38.45
BAND 5	029.0	20430	Н	18.25	5.49	-3.34	20.40	38.45
BW: 10M	836.5	20525	V	22.50	5.47	-3.51	24.46	38.45
QPSK	030.0	20525	Н	17.75	5.47	-3.51	19.71	38.45
RB: 1,0	844.0	20600	V	20.41	5.46	-3.31	22.56	38.45
	044.0	20000	Н	17.33	5.46	-3.31	19.48	38.45
	829.0	20450	V	22.47	5.47	-3.45	24.49	38.45
BAND 5	020.0	20400	Н	17.80	5.47	-3.45	19.82	38.45
BW: 10M QPSK	836.5	20525	V	20.56	5.46	-3.48	22.54	38.45
	000.0	20020	Н	17.83	5.46	-3.48	19.81	38.45
RB: 1,49	844.0	20600	V	20.51	5.45	-3.08	22.88	38.45
	011.0	20000	Н	18.96	5.45	-3.08	21.33	38.45
	829.0	20450	V	23.24	5.49	-3.34	25.39	38.45
BAND 5		20100	Н	18.37	5.49	-3.34	20.52	38.45
BW: 5M	836.5	20525	V	22.50	5.48	-3.50	24.48	38.45
16QAM			Н	18.27	5.48	-3.50	20.25	38.45
RB: 1,0	844.0	20600	V	20.38	5.46	-3.22	22.62	38.45
			Н	17.51	5.46	-3.22	19.75	38.45
	829.0	20450	V	22.43	5.47	-3.51	24.39	38.45
BAND 5	BAND 5		Н	17.95	5.47	-3.51	19.91	38.45
BW: 10M 16QAM RB: 1,49	836.5	20525	V	20.66	5.46	-3.46	22.66	38.45
			Н	17.87	5.46	-3.46	19.87	38.45
	844.0	20600	V	20.56	5.45	-3.08	22.93	38.45
			H	19.07	5.45	-3.08	21.44	38.45



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2502 5	20775	V	22.03	10.40	-5.88	26.55	33.01
BAND 7	2502.5	20775	Н	18.68	10.40	-5.88	23.20	33.01
BW: 5M	2535.0	21100	V	22.27	10.46	-5.89	26.84	33.01
QPSK	2000.0	21100	Н	17.99	10.46	-5.89	22.56	33.01
RB: 1,0	2567.5	21425	V	22.19	10.52	-5.97	26.74	33.01
	2307.3	21423	Н	15.86	10.52	-5.97	20.41	33.01
	2502.5	20775	V	22.15	10.41	-5.89	26.67	33.01
BAND 7	2302.3	20115	Н	17.81	10.41	-5.89	22.33	33.01
BW: 5M 2535.0	2535.0	21100	V	21.78	10.47	-5.90	26.35	33.01
	2000.0	21100	Н	17.70	10.47	-5.90	22.27	33.01
RB: 1,24	2567.5	21/25	V	22.14	10.52	-5.98	26.68	33.01
	2307.3	21425	Н	15.77	10.52	-5.98	20.31	33.01
	2502.5	20775	V	22.01	10.40	-5.88	26.53	33.01
BAND 7	2002.0	20115	Н	17.81	10.40	-5.88	22.33	33.01
BW: 5M	2535.0	21100	V	21.95	10.46	-5.89	26.52	33.01
16QAM	2000.0	21100	Н	17.80	10.46	-5.89	22.37	33.01
RB: 1,0	2567.5	21425	V	21.80	10.52	-5.97	26.35	33.01
	2007.0	21420	Н	15.53	10.52	-5.97	20.08	33.01
	2502 5	20775	V	21.98	10.41	-5.89	26.50	33.01
BAND 7	BAND 7 2502.5	20110	Н	17.72	10.41	-5.89	22.24	33.01
BW: 5M 16QAM RB: 1,24	2535.0	21100	V	21.67	10.47	-5.90	26.24	33.01
	2000.0	21100	Н	17.64	10.47	-5.90	22.21	33.01
	2567.5	21425	V	22.00	10.52	-5.98	26.54	33.01
	2001.0	21120	Н	15.58	10.52	-5.98	20.12	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2505.0	20800	V	21.61	10.40	-5.88	26.13	33.01
BAND 7	2505.0	20000	Н	18.05	10.40	-5.88	22.57	33.01
BW: 10M	2535.0	21100	V	21.46	10.45	-5.89	26.02	33.01
QPSK	2000.0	21100	Н	18.34	10.45	-5.89	22.90	33.01
RB: 1,0	2565.0	21400	V	20.91	10.51	-5.96	25.46	33.01
	2303.0	21400	Н	16.29	10.51	-5.96	20.84	33.01
	2505.0	20800	V	27.58	10.42	-5.89	32.11	33.01
BAND 7	2000.0	20000	Н	17.07	10.42	-5.89	21.60	33.01
BW: 10M QPSK	2535.0	21100	V	26.23	10.47	-5.90	30.80	33.01
	2000.0	21100	Н	18.21	10.47	-5.90	22.78	33.01
RB: 1,49	2565.0	21400	V	26.90	10.52	-5.98	31.44	33.01
	2000.0	21400	Н	13.74	10.52	-5.98	18.28	33.01
	2505.0	20800	V	21.76	10.40	-5.88	26.28	33.01
BAND 7	2000.0	20000	Н	17.00	10.40	-5.88	21.52	33.01
BW: 10M	2535.0	21100	V	21.28	10.45	-5.89	25.84	33.01
16QAM		21100	Н	16.55	10.45	-5.89	21.11	33.01
RB: 1,0	2565.0	21400	V	21.13	10.51	-5.96	25.68	33.01
			Н	14.51	10.51	-5.96	19.06	33.01
	2505.0	20800	V	26.97	10.42	-5.89	31.50	33.01
BAND 7	BAND 7		Н	18.08	10.42	-5.89	22.61	33.01
BW: 10M 16QAM RB: 1,49	2535.0	21100	V	26.81	10.47	-5.90	31.38	33.01
			Н	17.30	10.47	-5.90	21.87	33.01
	2565.0	21400	V	26.49	10.52	-5.98	31.03	33.01
			H	15.93	10.52	-5.98	20.47	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2507.5	20825	V	21.77	10.40	-5.88	26.29	33.01
BAND 7	2007.0	20025	Н	18.09	10.40	-5.88	22.61	33.01
BW: 15M	2535.0	21100	V	20.55	10.45	-5.89	25.11	33.01
QPSK	2000.0	21100	Н	16.89	10.45	-5.89	21.45	33.01
RB: 1,0	2562.5	21375	V	20.75	10.50	-5.94	25.31	33.01
	2302.3	21373	Н	16.01	10.50	-5.94	20.57	33.01
	2507.5	20825	V	21.66	10.43	-5.84	26.25	33.01
BAND 7	2007.0	20020	Н	18.29	10.43	-5.84	22.88	33.01
BW: 15M QPSK	2535.0	21100	V	20.45	10.47	-5.91	25.01	33.01
	2000.0	21100	Н	16.49	10.47	-5.91	21.05	33.01
RB: 1,74	2562.5	21375	V	22.11	10.52	-5.98	26.65	33.01
	2002.0	21375	Н	15.84	10.52	-5.98	20.38	33.01
	2507.5	20825	V	21.79	10.40	-5.88	26.31	33.01
BAND 7	2007.0	20020	Н	18.05	10.40	-5.88	22.57	33.01
BW: 15M	2535.0	21100	V	20.64	10.45	-5.89	25.20	33.01
16QAM		21100	Н	16.92	10.45	-5.89	21.48	33.01
RB: 1,0	2562.5	21375	V	20.32	10.50	-5.94	24.88	33.01
			Н	16.14	10.50	-5.94	20.70	33.01
	2507.5	20825	V	21.36	10.42	-5.89	25.89	33.01
BAND 7			Н	18.16	10.42	-5.89	22.69	33.01
BW: 15M 16QAM RB: 1,74	2535.0	21100	V	20.42	10.47	-5.91	24.98	33.01
			Н	16.36	10.47	-5.91	20.92	33.01
	2562.5	21375	V	21.82	10.52	-5.98	26.36	33.01
			H	15.69	10.52	-5.98	20.23	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2510.0	20850	V	21.80	10.40	-5.88	26.32	33.01
BAND 7	2010.0	20050	Н	18.53	10.40	-5.88	23.05	33.01
BW: 20M	2535.0	21100	V	21.27	10.45	-5.89	25.83	33.01
QPSK	2000.0	21100	Н	17.22	10.45	-5.89	21.78	33.01
RB: 1,0	2560.0	21350	V	21.08	10.49	-5.93	25.64	33.01
	2300.0	21330	Н	16.54	10.49	-5.93	21.10	33.01
	2510.0	20850	V	21.42	10.43	-5.89	25.96	33.01
BAND 7	2010.0	20000	Н	17.91	10.43	-5.89	22.45	33.01
BW: 20M QPSK	2535.0	21100	V	21.02	10.48	-5.91	25.59	33.01
	2000.0	21100	Н	16.62	10.48	-5.91	21.19	33.01
RB: 1,99	2560.0	21350	V	22.03	10.52	-5.97	26.58	33.01
	2000.0	21350	Н	15.85	10.52	-5.97	20.40	33.01
	2510.0	20850	V	22.04	10.40	-5.88	26.56	33.01
BAND 7	2010.0	20000	Н	18.27	10.40	-5.88	22.79	33.01
BW: 20M	2535.0	21100	V	21.01	10.45	-5.89	25.57	33.01
16QAM	2000.0	21100	Н	17.05	10.45	-5.89	21.61	33.01
RB: 1,0	2560.0	21350	V	20.99	10.49	-5.92	25.56	33.01
	2000.0	21000	Н	16.54	10.49	-5.92	21.11	33.01
	2510.0	20850	V	21.22	10.43	-5.89	25.76	33.01
BAND 7			Н	17.79	10.43	-5.89	22.33	33.01
BW: 20M 16QAM RB: 1,99	2535.0	21100	V	20.81	10.48	-5.91	25.38	33.01
			Н	16.52	10.48	-5.91	21.09	33.01
	2560.0	21350	V	21.84	10.52	-5.98	26.38	33.01
			Н	15.53	10.52	-5.98	20.07	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	000 7	00047	V	23.60	5.44	-3.28	25.76	34.77
BAND 12	699.7	23017	Н	12.89	5.44	-3.28	15.05	34.77
BW: 1.4M	707 5	22005	V	20.72	5.46	-3.23	22.95	34.77
QPSK	707.5	23095	Н	13.70	5.46	-3.23	15.93	34.77
RB: 1,0	715.3	23173	V	20.15	5.46	-3.01	22.60	34.77
	715.5	20170	Н	11.62	5.46	-3.01	14.07	34.77
	699.7	23017	V	19.29	5.46	-3.00	21.75	34.77
BAND 12	099.7	23017	Н	12.71	5.46	-3.00	15.17	34.77
BW: 1.4M QPSK	707.5	23095	V	18.37	5.46	-3.23	20.60	34.77
	101.5	20000	Н	13.59	5.46	-3.23	15.82	34.77
RB: 1,5	715.3	23173	V	19.23	5.46	-3.11	21.58	34.77
	710.0	23173	Н	11.38	5.46	-3.11	13.73	34.77
	699.7	23017	V	19.24	5.45	-3.10	21.59	34.77
BAND 12		20017	Н	12.39	5.45	-3.10	14.74	34.77
BW: 1.4M	707.5	23095	V	19.46	5.46	-3.22	21.70	34.77
16QAM		20000	Н	13.43	5.46	-3.22	15.67	34.77
RB: 1,0	715.3	23173	V	19.68	5.46	-3.12	22.02	34.77
		20110	Н	11.81	5.46	-3.12	14.15	34.77
	699.7	23017	V	19.38	5.46	-3.04	21.80	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5			Н	12.67	5.46	-3.04	15.09	34.77
	707.5	23095	V	18.62	5.46	-3.23	20.85	34.77
			H	13.70	5.46	-3.23	15.93	34.77
	715.3	23173	V	18.25	5.46	-3.21	20.50	34.77
			H	11.53	5.46	-3.21	13.78	34.77



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	700 5	00005	V	18.94	5.45	-3.20	21.19	34.77
BAND 12	700.5	23025	Н	11.95	5.45	-3.20	14.20	34.77
BW: 3M	707.5	23095	V	18.26	5.46	-3.16	20.56	34.77
QPSK	707.5	23095	Н	13.06	5.46	-3.16	15.36	34.77
RB: 1,0	714.5	23165	V	15.98	5.46	-2.90	18.54	34.77
	714.5	23103	Н	11.41	5.46	-2.90	13.97	34.77
	700.5	23025	V	18.54	5.46	-3.01	20.99	34.77
BAND 12	700.5	20020	Н	12.25	5.46	-3.01	14.70	34.77
BW: 3M QPSK	707.5	23095	V	17.72	5.46	-3.15	20.03	34.77
	101.5	20000	Н	12.68	5.46	-3.15	14.99	n dBm 19 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 20 34.77 21 34.77 22 34.77 24 34.77 24 34.77 24 34.77 24 34.77 24 34.77 25 34.77 26 34.77 27 34.77 28 34.77 29 34.77 20 34.77 21 34.77
RB: 1,14	714.5	23165	V	15.97	5.46	-3.06	18.37	34.77
	714.0	23103	Н	11.21	5.46	-3.06	13.61	34.77
	700.5	23025	V	18.99	5.46	-3.12	21.33	34.77
BAND 12	700.0	20020	Н	11.90	5.46	-3.12	14.24	34.77
BW: 3M	707.5	23095	V	18.03	5.46	-3.08	20.41	34.77
16QAM		20000	Н	12.86	5.46	-3.08	15.24	34.77
RB: 1,0	714.5	23165	V	15.90	5.46	-2.90	18.46	34.77
		20100	Н	11.21	5.46	-2.90	13.77	34.77
	700.5	23025	V	18.44	5.46	-3.03	20.87	
BAND 12 BW: 3M 16QAM RB: 1,14			Н	12.07	5.46	-3.03	14.50	
	707.5	23095	V	17.69	5.46	-3.23	19.92	
			Н	12.94	5.46	-3.23	15.17	
	714.5	23165	V	15.72	5.46	-3.08	18.10	
			H	11.05	5.46	-3.08	13.43	34.77



	EUT				Measur	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	701.5	23035	V	18.79	5.46	-3.12	21.13	34.77
BAND 12	701.5	23035	Н	11.87	5.46	-3.12	14.21	34.77
BW: 5M	707.5	23095	V	18.19	5.46	-3.02	20.63	34.77
QPSK	101.5	23095	Н	12.70	5.46	-3.02	15.14	34.77
RB: 1,0	713.5	23155	V	16.51	5.46	-3.07	18.90	34.77
	715.5	20100	Н	11.96	5.46	-3.07	14.35	34.77
	701.5	23035	V	18.31	5.46	-3.03	20.74	34.77
BAND 12	701.0		Н	12.56	5.46	-3.03	14.99	34.77
BW: 5M QPSK	707.5	23095	V	17.03	5.46	-3.08	19.41	34.77
	101.0	20000	Н	12.22	5.46	-3.08	14.60	34.77
RB: 1,24	713.5	23155	V	18.70	5.46	-3.00	21.16	34.77
	110.0	23100	Н	11.82	5.46	-3.00	14.28	34.77
	701.5	23035	V	18.10	5.46	-3.04	20.52	34.77
BAND 12		20000	Н	12.70	5.46	-3.04	15.12	34.77
BW: 5M	707.5	23095	V	16.46	5.46	-3.07	18.85	34.77
16QAM		20000	Н	11.99	5.46	-3.07	14.38	34.77
RB: 1,0	713.5	23155	V	18.33	5.46	-3.00	20.79	34.77
			Н	12.46	5.46	-3.00	14.92	34.77
	701.5	23035	V	18.33	5.46	-3.01	20.78	34.77
BAND 12			Н	12.46	5.46	-3.01	14.91	34.77
BW: 5M 16QAM RB: 1,24	707.5	23095	V	17.12	5.46	3.10	25.68	34.77
			H	12.40	5.46	3.10	20.96	34.77
	713.5	23155	V	15.92	5.46	-3.17	18.21	34.77
			H	11.38	5.46	-3.17	13.67	34.77



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	704.0	23060	V	18.91	5.46	-3.13	21.24	34.77
BAND 12	704.0	23060	Н	12.03	5.46	-3.13	14.36	34.77
BW: 10M	707.5	23095	V	18.24	5.46	-3.03	20.67	34.77
QPSK	707.5	23095	Н	12.09	5.46	-3.03	14.52	34.77
RB: 1,0	711.0	23130	V	18.31	5.46	-3.20	20.57	34.77
	711.0	23130	Н	13.07	5.46	-3.20	15.33	34.77
	704.0	23060	V	17.84	5.46	-3.23	20.07	34.77
BAND 12	2	20000	Н	12.96	5.46	-3.23	15.19	34.77
BW: 10M QPSK	707.5	23095	V	16.39	5.46	-3.07	18.78	34.77
	101.5	20090	Н	11.64	5.46	-3.07	14.03	34.77
RB: 1,49	711.0	23130	V	15.82	5.46	-2.95	18.33	34.77
	711.0	23130	Н	11.11	5.46	-2.95	13.62	34.77
	704.0	23060	V	18.90	5.45	-3.18	21.17	34.77
BAND 12	704.0	20000	Н	11.79	5.45	-3.18	14.06	34.77
BW: 10M	707.5	23095	V	18.20	5.46	-3.03	20.63	34.77
16QAM	101.0	20000	Н	12.14	5.46	-3.03	14.57	34.77
RB: 1,0	711.0	23130	V	18.11	5.46	-3.17	20.40	34.77
	711.0	20100	Н	12.66	5.46	-3.17	14.95	34.77
	704.0	23060	V	17.77	5.46	-3.20	20.03	34.77
BAND 12		20000	Н	12.70	5.46	-3.20	14.96	34.77
BW: 10M 16QAM RB: 1,49	707.5	23095	V	16.30	5.46	-3.07	18.69	34.77
			Н	11.53	5.46	-3.07	13.92	34.77
	711.0	23130	V	15.92	5.46	-3.04	18.34	34.77
		_0.00	Н	10.91	5.46	-3.04	13.33	34.77



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	779.5	23205	V	19.04	5.49	-3.11	21.42	34.77
BAND 13	119.5	23205	Н	12.66	5.49	-3.11	15.04	34.77
BW: 5M	782.0	23230	V	19.58	5.50	-3.26	21.82	34.77
QPSK	702.0	23230	Н	13.77	5.50	-3.26	16.01	34.77
RB: 1,0	784.5	23255	V	19.11	5.50	-3.34	21.27	34.77
	704.5	23233	Н	13.65	5.50	-3.34	15.81	34.77
	779.5	23205	V	19.50	5.50	-3.37	21.63	34.77
BAND 13	119.5	23203	Н	13.97	5.50	-3.37	16.10	34.77
BW: 5M QPSK	782.0	23230	V	19.40	5.50	-3.42	21.48	34.77
	702.0	23230	Н	13.97	5.50	-3.42	16.05	34.77
RB: 1,24	784.5	23255	V	19.62	5.51	-3.06	22.07	34.77
	704.5	23255	Н	15.09	5.51	-3.06	17.54	34.77
	779.5	23205	V	19.03	5.49	-3.11	21.41	34.77
BAND 13	113.5	20200	Н	12.54	5.49	-3.11	14.92	34.77
BW: 5M	782.0	23230	V	20.23	5.50	-3.41	22.32	34.77
16QAM	102.0	20200	Н	14.69	5.50	-3.41	16.78	34.77
RB: 1,0	784.5	23255	V	21.67	5.50	-3.30	23.87	34.77
	704.0	20200	Н	15.70	5.50	-3.30	17.90	34.77
	779.5	23205	V	21.53	5.50	-3.45	23.58	34.77
BAND 13	110.0	20200	Н	15.44	5.50	-3.45	17.49	34.77
BW: 5M 16QAM RB: 1,24	782.0	23230	V	20.60	5.50	-3.18	22.92	34.77
	102.0	20200	Н	15.10	5.50	-3.18	17.42	34.77
	784.5	23255	V	20.54	5.50	-3.08	22.96	34.77
	10110	20200	Н	15.50	5.50	-3.08	17.92	34.77



	EUT				Measur	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 10M	782.0	23230	V	22.13	5.49	-3.11	24.51	34.77
QPSK RB: 1,0	102.0	20200	Н	21.00	5.49	-3.11	23.38	34.77
BAND 13 BW: 10M	782.0	23230	V	19.88	5.50	-3.06	22.32	34.77
QPSK RB: 1,99	782.0	20200	Н	15.07	5.50	-3.06	17.51	34.77
BAND 13 BW: 10M			V	19.50	5.49	-3.11	21.88	34.77
16QAM RB: 1,0	782.0	23230	Н	13.17	5.49	-3.11	15.55	34.77
BAND 13 BW: 10M	782.0	23230	V	20.46	5.50	-3.06	22.90	34.77
16QAM RB: 1,99	102.0	23230	н	15.84	5.50	-3.06	18.28	34.77



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	4050 7	00047	V	18.15	9.59	-5.04	22.70	33.01
BAND 25	1850.7	26047	Н	15.98	9.59	-5.04	20.53	33.01
BW: 1.4M	1000 5	26265	V	21.65	9.70	-5.17	26.18	33.01
QPSK	1882.5	26365	Н	16.82	9.70	-5.17	21.35	33.01
RB: 1,0	1914.3	26683	V	22.70	9.81	-5.14	27.37	33.01
	1914.5	20003	Н	17.59	9.81	-5.14	22.26	33.01
	1850.7	26047	V	22.23	9.59	-5.05	26.77	33.01
BAND 25	1050.7	20047	Н	17.43	9.59	-5.05	21.97	33.01
BW: 1.4M QPSK	1882.5	26365	V	21.59	9.70	-5.18	26.11	33.01
	1002.0	20000	Н	16.79	9.70	-5.18	21.31	33.01
RB: 1,5	1914.3	26683	V	22.31	9.81	-5.14	26.98	33.01
	1014.0	20003	Н	17.32	9.81	-5.14	21.99	33.01
	1850.7	26047	V	20.81	9.59	-5.05	25.35	33.01
BAND 25	1000.7	20047	Н	15.61	9.59	-5.05	20.15	33.01
BW: 1.4M	1882.5	26365	V	20.01	9.70	-5.17	24.54	33.01
16QAM	1002.0	20000	Н	16.79	9.70	-5.17	21.32	33.01
RB: 1,0	1914.3	26683	V	22.76	9.81	-5.14	27.43	33.01
	101110	20000	Н	17.81	9.81	-5.14	22.48	33.01
	1850.7	26047	V	22.34	9.59	-5.04	26.89	33.01
BAND 25 BW: 1.4M 16QAM RB: 1,5		20011	Н	14.65	9.59	-5.04	19.20	33.01
	1882.5	26365	V	21.51	9.70	-5.17	26.04	33.01
			Н	16.79	9.70	-5.17	21.32	33.01
	1914.3	26683	V	16.92	9.81	-5.14	21.59	33.01
			Н	22.48	9.81	-5.14	27.15	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1051 5	26055	V	22.37	9.59	-5.05	26.91	33.01
BAND 25	1851.5	26055	Н	15.21	9.59	-5.05	19.75	33.01
BW: 3M	1992 5	26265	V	23.28	9.70	-5.16	27.82	33.01
QPSK	1882.5	26365	Н	16.93	9.70	-5.16	21.47	33.01
RB: 1,0	1913.5	26675	V	26.70	9.80	-5.14	31.36	33.01
	1913.5	20075	Н	18.61	9.80	-5.14	23.27	33.01
	1851.5	26055	V	21.56	9.60	-5.05	26.11	33.01
BAND 25	1001.0	20000	Н	13.96	9.60	-5.05	18.51	33.01
BW: 3M QPSK	1882.5	26365	V	22.73	9.70	-5.17	27.26	33.01
	1002.0	20000	Н	15.92	9.70	-5.17	20.45	33.01
RB: 1,14	1913.5	26675	V	20.54	9.81	-5.14	25.21	33.01
	1010.0	20075	Н	16.09	9.81	-5.14	20.76	33.01
	1851.5	26055	V	22.16	9.59	-5.05	26.70	33.01
BAND 25	1001.0	20000	Н	15.64	9.59	-5.05	20.18	33.01
BW: 3M	1882.5	26365	V	21.72	9.70	-5.17	26.25	33.01
16QAM	1002.0	20000	Н	17.09	9.70	-5.17	21.62	33.01
RB: 1,0	1913.5	26675	V	22.20	9.80	-5.14	26.86	33.01
	1010.0	20070	Н	18.40	9.80	-5.14	23.06	33.01
	1851.5	26055	V	18.44	9.60	-5.05	22.99	33.01
BAND 25 BW: 3M 16QAM RB: 1,14			Н	16.15	9.60	-5.05	20.70	33.01
	1882.5	26365	V	21.66	9.70	-5.17	26.19	33.01
			Н	16.87	9.70	-5.17	21.40	33.01
	1913.5	26675	V	22.52	9.81	-5.14	27.19	33.01
			Н	17.72	9.81	-5.14	22.39	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1952 5	26065	V	21.64	9.60	-5.05	26.19	33.01
BAND 25	1852.5	26065	Н	17.05	9.60	-5.05	21.60	33.01
BW: 5M	1882.5	26365	V	22.02	9.69	-5.16	26.55	33.01
QPSK	1002.5	20305	Н	16.61	9.69	-5.16	21.14	33.01
RB: 1,0	1912.5	26665	V	22.89	9.80	-5.13	27.56	33.01
	1912.5	20003	Н	17.59	9.80	-5.13	22.26	33.01
	1852.5	26065	V	21.90	9.60	-5.05	26.45	33.01
BAND 25	1002.0	20000	Н	16.93	9.60	-5.05	21.48	33.01
BW: 5M QPSK	1882.5	26365	V	21.79	9.71	-5.17	26.33	33.01
	1002.0	20000	Н	16.68	9.71	-5.17	21.22	33.01
RB: 1,24	1912.5	26665	V	23.80	9.81	-5.14	28.47	33.01
	1012.0	20005	Н	17.34	9.81	-5.14	22.01	33.01
	1852.5	26065	V	21.94	9.59	-5.05	26.48	33.01
BAND 25	1002.0	20000	Н	15.77	9.59	-5.05	20.31	33.01
BW: 5M	1882.5	26365	V	22.17	9.69	-5.16	26.70	33.01
16QAM	1002.0	20000	Н	16.76	9.69	-5.16	21.29	33.01
RB: 1,0	1912.5	26665	V	22.82	9.80	-5.13	27.49	33.01
			Н	17.63	9.80	-5.13	22.30	33.01
	1852.5	26065	V	19.84	9.61	-5.05	24.40	33.01
BAND 25 BW: 5M 16QAM RB: 1,24			Н	16.77	9.61	-5.05	21.33	33.01
	1882.5	26365	V	21.75	9.71	-5.17	26.29	33.01
			Н	16.65	9.71	-5.17	21.19	33.01
	1912.5	26665	V	23.08	9.81	-5.14	27.75	33.01
			Н	17.15	9.81	-5.14	21.82	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1955 0	26000	V	22.42	9.59	-5.05	26.96	33.01
BAND 25	1855.0	20090	Н	9.72	9.59	-5.05	14.26	33.01
BW: 10M	1992 5	26265	V	23.83	9.69	-5.15	28.37	33.01
QPSK	1882.5	20305	Н	8.75	9.69	-5.15	13.29	33.01
RB: 1,0	1910.0	26640	V	24.93	9.78	-5.12	29.59	33.01
	1910.0	20040	Н	11.82	9.78	-5.12	16.48	33.01
	1855.0	26090	V	24.50	9.81	-5.14	29.17	33.01
BAND 25	1000.0	20090	Н	12.04	9.81	-5.14	16.71	33.01
BW: 10M QPSK	1882.5	26365	V	23.44	9.71	-5.17	27.98	33.01
	1002.0	20000	Н	7.87	9.71	-5.17	12.41	33.01
RB: 1,49	1910.0	26640	V	24.55	9.81	-5.14	29.22	33.01
	1010.0	20040	Н	12.10	9.81	-5.14	16.77	33.01
	1855.0	26090	V	22.40	9.59	-5.05	26.94	33.01
BAND 25	1000.0	20000	Н	9.72	9.59	-5.05	14.26	33.01
BW: 10M	1882.5	26365	V	23.79	9.68	-5.14	28.33	33.01
16QAM	1002.0	20000	Н	8.85	9.68	-5.14	13.39	33.01
RB: 1,0	1910.0	26640	V	24.88	9.78	-5.12	29.54	33.01
	1010.0	20010	Н	11.93	9.78	-5.12	16.59	33.01
	1855.0	26090	V	24.70	9.81	-5.14	29.37	33.01
BAND 25 BW: 10M 16QAM RB: 1,49			Н	12.20	9.81	-5.14	16.87	33.01
	1882.5	26365	V	23.50	9.71	-5.16	28.05	33.01
		0 26090 5 26365 0 26640 0 26090 5 26365 0 26090 5 26640 0 26090 5 26365 0 26090 5 26365 0 26090 5 26640 0 26090 5 26365 0 26090 5 26365	Н	7.76	9.71	-5.16	12.31	33.01
	1910.0	26640	V	24.65	9.81	-5.14	29.32	33.01
			H	12.14	9.81	-5.14	16.81	33.01



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1957 5	26115	V	23.78	9.59	-5.04	28.33	33.01
BAND 25	1857.5	26115	Н	10.99	9.59	-5.04	15.54	33.01
BW: 15M	1000 5	26265	V	24.20	9.68	-5.13	28.75	33.01
QPSK	1882.5	26365	Н	9.30	9.68	-5.13	13.85	33.01
RB: 1,0	1907.5	26615	V	24.66	9.76	-5.11	29.31	33.01
	1907.5	20015	Н	10.78	9.76	-5.11	15.43	33.01
	1857.5	26115	V	23.89	9.64	-5.07	28.46	33.01
BAND 25	1007.0	20115	Н	10.22	9.64	-5.07	14.79	33.01
BW: 15M 1882	1882 5	26365	V	23.79	9.72	-5.16	28.35	33.01
	1002.0	20000	Н	8.24	9.72	-5.16	12.80	33.01
RB: 1,74	1907.5	26615	V	24.83	9.81	-5.14	29.50	33.01
	1007.0	20015	Н	12.15	9.81	-5.14	16.82	33.01
	1857.5	26115	V	22.43	9.59	-5.05	26.97	33.01
BAND 25	1007.0	20113	Н	9.61	9.59	-5.05	14.15	33.01
BW: 15M	1882.5	26365	V	24.38	9.68	-5.13	28.93	33.01
16QAM	1002.0	20000	Н	9.21	9.68	-5.13	13.76	33.01
RB: 1,0	1907.5	26615	V	24.75	9.76	-5.11	29.40	33.01
	1007.0	20010	Н	10.78	9.76	-5.11	15.43	33.01
	1857.5	26115	V	24.15	9.64	-5.07	28.72	33.01
BAND 25	BAND 25	20110	Н	10.02	9.64	-5.07	14.59	33.01
BW: 15M 16QAM RB: 1,74	1882.5	26365	V	23.75	9.72	-5.16	28.31	33.01
			Н	8.01	9.72	-5.16	12.57	33.01
	1907.5	26615	V	23.08	9.81	-5.14	27.75	33.01
			Н	12.07	9.81	-5.14	16.74	33.01



	EUT				Measu	rement		Limit dBm 33.01 33.01 33.01 33.01 33.01 33.01 33.01 33.01 33.01 33.01				
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit				
	MHz		V/H	dBm	dBi	dB	dBm	dBm				
	1960.0	26140	V	23.71	9.59	-5.05	28.25	33.01				
BAND 25	1860.0	26140	Н	15.05	9.59	-5.05	19.59	33.01				
BW: 20M	1000 5	26265	V	25.93	9.67	-5.12	30.48	33.01				
QPSK	1882.5	26365	Н	9.75	9.67	-5.12	14.30	33.01				
RB: 1,0	1905.0	26590	V	25.44	9.75	-5.13	30.06	33.01				
	1905.0	20390	Н	14.34	9.75	-5.13	18.96	33.01				
	1860.0	26140	V	24.72	9.65	-5.09	29.28	33.01				
BAND 25	1000.0	20140	Н	5.05	9.65	-5.09	9.61	33.01				
BW: 20M	BW: 20M 1882.5	26365	V	25.21	9.73	-5.15	29.79	33.01				
QPSK	1002.0	20000	Н	13.61	9.73	-5.15	18.19	33.01				
RB: 1,99	1905.0	26590	V	26.38	9.81	-5.14	31.05	33.01				
	1000.0	26590	Н	9.86	9.81	-5.14	14.53	33.01				
	1860.0	26140	V	24.55	9.59	-5.05	29.09	33.01				
BAND 25	1000.0	20140	Н	10.32	9.59	-5.05	14.86	33.01				
BW: 20M	1882.5	26365	V	25.95	9.68	-5.12	30.51	33.01				
16QAM	1002.0	20000	Н	9.61	9.68	-5.12	14.17	33.01				
RB: 1,0	1905.0	26590	V	24.75	9.75	-5.13	29.37	33.01				
	100010	20000	Н	9.71	9.75	-5.13	14.33	33.01				
	1860.0	26140	V	24.27	9.65	-5.08	28.84	33.01				
BAND 25	AND 25		Н	9.77	9.65	-5.08	14.34	33.01				
BW: 20M 16QAM RB: 1,99	1882.5	26365	V	23.07	9.73	-5.14	27.66	33.01				
			Н	7.75	9.73	-5.14	12.34	33.01				
	1905.0	26590	V	23.38	9.80	-5.14	28.04	33.01				
			H	10.93	9.80	-5.14	15.59	33.01				



	EUT				Measu	rement		Limit dBm 38.50 38.50 38.50 38.50 38.50					
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit					
	MHz		V/H	dBm	dBd	dB	dBm	dBm					
	904 7	26707	V	23.85	5.49	-3.29	26.05	38.50					
BAND 26	824.7	26797	Н	16.47	5.49	-3.29	18.67	38.50					
BW: 1.4M	836.5	26915	V	22.57	5.47	-3.32	24.72	38.50					
QPSK	030.5	20915	Н	17.02	5.47	-3.32	19.17	38.50					
RB: 1,0	848.3	27033	V	19.68	5.45	-3.08	22.05	38.50					
	040.0	27000	Н	18.57	5.45	-3.08	20.94	38.50					
	824.7	26797	V	23.51	5.48	-3.23	25.76	38.50					
BAND 26	024.7	20131	Н	16.18	5.48	-3.23	18.43	38.50					
BW: 1.4M QPSK	836.5	26915	V	22.18	5.47	-3.35	24.30	38.50					
	000.0	20010	Н	17.04	5.47	-3.35	3 25.76 3 18.43 5 24.30 5 19.16 7 22.06 7 20.95 3 25.64	38.50					
RB: 1,5	848.3	27033	V	19.68	5.45	-3.07	22.06	38.50					
	0-10.0	27033	Н	18.57	5.45	-3.07	20.95	38.50					
	824.7	26797	V	23.48	5.49	-3.33	25.64	38.50					
BAND 26	024.1	20101	Н	16.54	5.49	-3.33	18.70	38.50					
BW: 1.4M	836.5	26915	V	22.13	5.47	-3.31	24.29	38.50					
16QAM		20010	Н	16.97	5.47	-3.31	19.13	38.50					
RB: 1,0	848.3	27033	V	19.81	5.45	-3.08	22.18	38.50					
			Н	18.70	5.45	-3.08	21.07	38.50					
	824.7	26797	V	23.19	5.48	-3.25	25.42	38.50					
BAND 26 BW: 1.4M 16QAM RB: 1.5			Н	16.25	5.48	-3.25	18.48	38.50					
	836.5	26915	V	21.77	5.47	-3.32	23.92	38.50					
			Н	17.21	5.47	-3.32	19.36	38.50					
	848.3	27033	V	19.02	5.45	-3.09	21.38	38.50					
			Н	17.82	5.45	-3.09	20.18	38.50					



	EUT				Measu	rement		Limit dBm 38.50 38.50 38.50 38.50 38.50					
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit					
	MHz		V/H	dBm	dBd	dB	dBm	dBm					
	905 F	26005	V	21.88	5.49	-3.35	24.02	38.50					
BAND 26	825.5	26805	Н	14.69	5.49	-3.35	16.83	38.50					
BW: 3M	836.5	26915	V	19.20	5.47	-3.36	21.31	38.50					
QPSK	030.5	20915	Н	13.72	5.47	-3.36	15.83	38.50					
RB: 1,0	847.5	27025	V	19.36	5.45	-3.32	21.49	38.50					
	047.5	21025	Н	18.22	5.45	-3.32	20.35	38.50					
	825.5	26805	V	22.62	5.48	-3.21	24.89	38.50					
BAND 26	020.0	20003	Н	15.68	5.48	-3.21	17.95	38.50					
BW: 3M	BW: 3M 836.5	26915	V	20.91	5.47	-3.19	23.19	38.50					
QPSK	000.0	20010	Н	16.67	5.47	-3.19	18.95	38.50					
RB: 1,14	847.5	27025	V	18.80	5.45	-3.09	21.16	38.50					
	011.0	27025	Н	17.59	5.45	-3.09	19.95	38.50					
	825.5	26805	V	23.50	5.49	-3.33	25.66	38.50					
BAND 26	020.0	20000	Н	16.55	5.49	-3.33	18.71	38.50					
BW: 3M	836.5	26915	V	21.74	5.47	-3.36	23.85	38.50					
16QAM		20010	Н	16.28	5.47	-3.36	18.39	38.50					
RB: 1,0	847.5	27025	V	19.19	5.45	-3.25	21.39	38.50					
	0.1.10		Н	18.14	5.45	-3.25	20.34	38.50					
	825.5	26805	V	22.66	5.48	-3.21	24.93	38.50					
BAND 26	BAND 26		Н	15.67	5.48	-3.21	17.94	38.50					
BW: 3M 16QAM RB: 1,14	836.5	26915	V	20.90	5.47	-3.14	23.23	38.50					
			Н	16.56	5.47	-3.14	18.89	38.50					
	847.5	27025	V	19.10	5.45	-3.12	21.43	38.50					
			Н	17.93	5.45	-3.12	20.26	38.50					



	EUT				Measu	rement		Limit dBm 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50				
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit				
	MHz		V/H	dBm	dBd	dB	dBm	dBm				
	926 5	26815	V	23.45	5.49	-3.35	25.59	38.50				
BAND 26	826.5	20015	Н	16.51	5.49	-3.35	18.65	38.50				
BW: 5M	836.5	26915	V	22.14	5.47	-3.36	24.25	38.50				
QPSK	030.5	20915	Н	16.29	5.47	-3.36	18.40	38.50				
RB: 1,0	846.5	27015	V	18.23	5.46	-3.46	20.23	38.50				
	040.3	27013	Н	17.04	5.46	-3.46	19.04	38.50				
	826.5	26815	V	22.23	5.48	-3.17	24.54	38.50				
BAND 26	020.0	20010	Н	15.30	5.48	-3.17	17.61	38.50				
BW: 5M	BW: 5M 836.5	26915	V	20.28	5.47	-3.19	22.56	38.50				
QPSK	000.0	20010	Н	16.57	5.47	-3.19	18.85	38.50				
RB: 1,24	846.5	27015	V	19.01	5.45	-3.08	21.38	38.50				
	0+0.0	27015	Н	17.79	5.45	-3.08	20.16	38.50				
	826.5	26815	V	23.56	5.49	-3.31	25.74	38.50				
BAND 26	020.0	20010	Н	16.52	5.49	-3.31	18.70	38.50				
BW: 5M	836.5	26915	V	22.21	5.47	-3.39	24.29	38.50				
16QAM		20010	Н	16.33	5.47	-3.39	18.41	38.50				
RB: 1,0	846.5	27015	V	18.26	5.46	-3.45	20.27	38.50				
	0.010		Н	16.95	5.46	-3.45	18.96	38.50				
	826.5	26815	V	22.32	5.48	-3.16	24.64	38.50				
BAND 26	BAND 26		Н	15.36	5.48	-3.16	17.68	38.50				
BW: 5M 16QAM RB: 1,24	836.5	26915	V	20.54	5.47	-3.13	22.88	38.50				
			Н	16.70	5.47	-3.13	19.04	38.50				
	846.5	27015	V	19.33	5.45	-3.13	21.65	38.50				
			Н	18.16	5.45	-3.13	20.48	38.50				



	EUT				Measu	rement		dBm 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50 38.50					
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit					
	MHz		V/H	dBm	dBd	dB	dBm	dBm					
	820.0	26940	V	23.29	5.48	-3.26	25.51	38.50					
BAND 26	829.0	26840	Н	16.20	5.48	-3.26	18.42	38.50					
BW: 10M	836.5	26915	V	22.25	5.48	-3.47	24.26	38.50					
QPSK	030.5	20915	Н	15.72	5.48	-3.47	17.73	38.50					
RB: 1,0	844.0	26990	V	19.60	5.46	-3.18	21.88	38.50					
	044.0	20330	Н	16.41	5.46	-3.18	18.69	38.50					
	829.0	26840	V	22.21	5.47	-3.44	24.24	38.50					
BAND 26	020.0	20040	Н	16.02	5.47	-3.44	18.05	38.50					
BW: 10M QPSK 836.5	836 5	26915	V	19.53	5.46	-3.46	21.53	38.50					
	000.0	20010	Н	16.78	5.46	-3.46	18.78	38.50					
RB: 1,49	844.0	26990	V	19.23	5.45	-3.08	21.60	38.50					
	011.0	26990	Н	18.06	5.45	-3.08	20.43	38.50					
	829.0	26840	V	23.38	5.48	-3.28	25.58	38.50					
BAND 26	020.0	20010	Н	16.34	5.48	-3.28	18.54	38.50					
BW: 10M	836.5	26915	V	22.23	5.48	-3.49	24.22	38.50					
16QAM		20010	Н	15.63	5.48	-3.49	17.62	38.50					
RB: 1,0	844.0	26990	V	19.62	5.46	-3.39	21.69	38.50					
			Н	16.65	5.46	-3.39	18.72	38.50					
	829.0	26840	V	22.14	5.47	-3.44	24.17	38.50					
BAND 26	BAND 26		Н	15.94	5.47	-3.44	17.97	38.50					
BW: 10M 16QAM RB: 1,49	836.5	26915	V	19.50	5.46	-3.47	21.49	38.50					
			Н	17.14	5.46	-3.47	19.13	38.50					
	844.0	26990	V	19.45	5.45	-3.09	21.81	38.50					
			H	18.29	5.45	-3.09	20.65	38.50					



	EUT				Measu	rement		Limit dBm 38.50 38.5				
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit				
	MHz		V/H	dBm	dBd	dB	dBm	dBm				
	021 5	26865	V	23.30	5.48	-3.26	25.52	38.50				
BAND 26	831.5	20000	Н	16.23	5.48	-3.26	18.45	38.50				
BW: 15M	836.5	26915	V	22.40	5.48	-3.25	24.63	38.50				
QPSK	030.3	20915	Н	15.30	5.48	-3.25	17.53	38.50				
RB: 1,0	841.5	26965	V	21.75	5.48	-3.36	23.87	38.50				
	011.0	20303	Н	16.30	5.48	-3.36	18.42	38.50				
	831.5	26865	V	20.35	5.47	-3.12	22.70	38.50				
BAND 26	001.0	20000	Н	16.41	5.47	-3.12	18.76	38.50				
BW: 15M QPSK	836.5	26915	V	18.25	5.46	-3.44	20.27	38.50				
		20010	Н	16.91	5.46	-3.44	18.93	38.50				
RB: 1,74	841.5	26965	V	19.18	5.45	-3.08	21.55	38.50				
	011.0	20905	Н	17.90	5.45	-3.08	20.27	38.50				
	831.5	26865	V	23.26	5.49	-3.30	25.45	38.50				
BAND 26		20000	Н	16.27	5.49	-3.30	18.46	38.50				
BW: 15M	836.5	26915	V	22.17	5.48	-3.24	24.41	38.50				
16QAM		20010	Н	15.32	5.48	-3.24	17.56	38.50				
RB: 1,0	841.5	26965	V	21.59	5.47	-3.37	23.69	38.50				
	01110	20000	Н	16.21	5.47	-3.37	18.31	38.50				
	831.5	26865	V	18.92	5.47	-3.14	21.25	38.50				
BAND 26	BAND 26		Н	15.08	5.47	-3.14	17.41	38.50				
BW: 15M 16QAM RB: 1,74	836.5	26915	V	18.36	5.46	-3.44	20.38	38.50				
			Н	16.43	5.46	-3.44	18.45	38.50				
	841.5	26965	V	19.12	5.45	-3.11	21.46	38.50				
			Н	17.96	5.45	-3.11	20.30	38.50				



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	0147	00007	V	22.27	5.50	-3.50	24.27	50.00
BAND 26	814.7	26697	Н	15.12	5.50	-3.50	17.12	50.00
BW: 1.4M	819.0	26740	V	23.75	5.50	-3.24	26.01	50.00
QPSK	019.0	20740	Н	16.43	5.50	-3.24	18.69	50.00
RB: 1,0	823.3	26783	V	24.52	5.49	-3.51	26.50	50.00
(Part 90S)	020.0	20703	Н	17.14	5.49	-3.51	19.12	50.00
	814.7	26697	V	21.81	5.50	-3.51	23.80	50.00
BAND 26	014.7	20007	Н	15.21	5.50	-3.51	17.20	50.00
BW: 1.4M	819.0	26740	V	23.77	5.49	-3.25	26.01	50.00
QPSK	010.0	20140	Н	16.93	5.49	-3.25	19.17	50.00
RB: 1,5	823.3	26783	V	23.53	5.48	-3.44	25.57	50.00
(Part 90S)	020.0	20100	Н	16.72	5.48	-3.44	18.76	50.00
	814.7	26697	V	21.88	5.50	-3.40	23.98	50.00
BAND 26	01111	20007	Н	15.07	5.50	-3.40	17.17	50.00
BW: 1.4M	819.0	26740	V	23.36	5.50	-3.24	25.62	50.00
16QAM	010.0	20110	Н	16.44	5.50	-3.24	18.70	50.00
RB: 1,0	823.3	26783	V	24.14	5.49	-3.53	26.10	50.00
(Part 90S)	020.0	20100	Н	17.36	5.49	-3.53	19.32	50.00
	814.7	26697	V	21.80	5.50	-3.34	23.96	50.00
BAND 26	.	20007	Н	15.02	5.50	-3.34	17.18	50.00
BW: 1.4M	819.0	26740	V	23.71	5.50	-3.25	25.96	50.00
16QAM	0.010	_0, 10	Н	16.80	5.50	-3.25	19.05	50.00
RB: 1,5	823.3	26783	V	23.60	5.49	-3.49	25.60	50.00
(Part 90S)	02010	20100	Н	16.90	5.49	-3.49	18.90	50.00



	EUT				Measur	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	01 <i>5 5</i>	26705	V	21.88	5.50	-3.40	23.98	50.00
BAND 26	815.5	26705	Н	15.15	5.50	-3.40	17.25	50.00
BW: 3M	819.0	26740	V	22.96	5.49	-3.24	25.21	50.00
QPSK	019.0	20740	Н	16.06	5.49	-3.24	18.31	50.00
RB: 1,0	822.5	26775	V	24.35	5.49	-3.39	26.45	50.00
(Part 90S)	022.5	20115	Н	17.51	5.49	-3.39	19.61	50.00
	815.5	26705	V	22.40	5.50	-3.20	24.70	50.00
BAND 26	010.0	20703	Н	15.51	5.50	-3.20	17.81	50.00
BW: 3M	819.0	26740	V	24.13	5.49	-3.30	26.32	50.00
QPSK	010.0	20740	Н	17.30	5.49	-3.30	19.49	50.00
RB: 1,14	822.5	26775	V	23.50	5.49	-3.42	25.57	50.00
(Part 90S)	022.0	20110	Н	16.73	5.49	-3.42	18.80	50.00
	815.5	26705	V	21.94	5.50	-3.46	23.98	50.00
BAND 26	010.0	20100	Н	15.22	5.50	-3.46	17.26	50.00
BW: 3M	819.0	26740	V	22.86	5.50	-3.24	25.12	50.00
16QAM	010.0	20110	Н	16.00	5.50	-3.24	18.26	50.00
RB: 1,0	822.5	26775	V	24.21	5.49	-3.50	26.20	50.00
(Part 90S)	022.0	20110	Н	17.37	5.49	-3.50	19.36	50.00
	815.5	26705	V	22.29	5.49	-3.20	24.58	50.00
BAND 26	0.010		Н	15.44	5.49	-3.20	17.73	50.00
BW: 3M	819.0	26740	V	23.98	5.49	-3.25	26.22	50.00
16QAM			Н	17.23	5.49	-3.25	19.47	50.00
RB: 1,14	822.5	26775	V	23.51	5.49	-3.41	25.59	50.00
(Part 90S)			Н	16.82	5.49	-3.41	18.90	50.00



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
	916 5	26715	V	21.84	5.50	-3.43	23.91	50.00
BAND 26	816.5	20715	Н	15.15	5.50	-3.43	17.22	50.00
BW: 5M	819.0	26740	V	22.46	5.50	-3.19	24.77	50.00
QPSK	019.0	20740	Н	15.53	5.50	-3.19	17.84	50.00
RB: 1,0	821.5	26765	V	23.77	5.49	-3.27	25.99	50.00
(Part 90S)	021.0	20703	Н	16.87	5.49	-3.27	19.09	50.00
	816.5	26715	V	23.44	5.49	-3.25	25.68	50.00
BAND 26	010.0	20/10	Н	16.55	5.49	-3.25	18.79	50.00
BW: 5M	819.0	26740	V	24.30	5.49	-3.44	26.35	50.00
QPSK	010.0	20140	Н	17.50	5.49	-3.44	19.55	50.00
RB: 1,24	821.5	26765	V	23.56	5.49	-3.44	25.61	50.00
(Part 90S)	021.0	20100	Н	16.80	5.49	-3.44	18.85	50.00
	816.5	26715	V	21.87	5.50	-3.41	23.96	50.00
BAND 26	010.0	20110	Н	15.16	5.50	-3.41	17.25	50.00
BW: 5M	819.0	26740	V	22.35	5.50	-3.20	24.65	50.00
16QAM		20110	Н	15.46	5.50	-3.20	17.76	50.00
RB: 1,0	821.5	26765	V	23.55	5.49	-3.25	25.79	50.00
(Part 90S)	021.0	20100	Н	16.70	5.49	-3.25	18.94	50.00
	816.5	26715	V	23.29	5.50	-3.25	25.54	50.00
BAND 26		20/10	Н	16.45	5.50	-3.25	18.70	50.00
BW: 5M	819.0	26740 -	V	24.12	5.49	-3.42	26.19	50.00
16QAM			Н	17.41	5.49	-3.42	19.48	50.00
RB: 1,24	821.5	26765	V	23.45	5.49	-3.42	25.52	50.00
(Part 90S)	02110	20100	Н	16.80	5.49	-3.42	18.87	50.00



	EUT				Measur	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 10M			V	21.68	5.50	-3.41	23.77	50.00
QPSK RB: 1,0 (Part 90S)	819.0	26740	Н	15.06	5.50	-3.41	17.15	50.00
BAND 26 BW: 10M			V	23.42	5.49	-3.49	25.42	50.00
QPSK RB: 1,49 (Part 90S)	819.0	26740	Н	16.71	5.49	-3.49	18.71	50.00
BAND 26 BW: 10M			V	21.71	5.50	-3.34	23.87	50.00
16QAM RB: 1,0 (Part 90S)	819.0	26740	Н	14.99	5.50	-3.34	17.15	50.00
BAND 26 BW: 10M			V	23.41	5.49	-3.52	25.38	50.00
16QAM RB: 1,99 (Part 90S)	819.0	26740	Н	16.83	5.49	-3.52	18.80	50.00



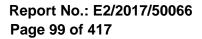
	EUT				Measur	rement		Limit dBm 34.77 34.77 34.77				
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit				
	MHz		V/H	dBm	dBi	dB	dBm	dBm				
	2307.5	27685	V	26.00	10.28	-5.65	30.63	34.77				
BAND 30	2307.3	27000	Н	19.15	10.28	-5.65	23.78	34.77				
BW: 5M	2310.0	27710	V	24.58	10.28	-5.65	29.21	34.77				
QPSK	2310.0	27710	Н	18.95	10.28	-5.65	23.58	34.77				
RB: 1,0	2312.5	27735	V	24.61	10.29	-5.65	29.25	34.77				
	2012.0	21133	Н	19.06	10.29	-5.65	23.70	34.77				
	2307.5	27685	V	24.82	10.29	-5.65	29.46	34.77				
BAND 30	2007.0	21000	Н	19.26	10.29	-5.65	23.90	34.77				
BW: 5M	2310.0	27710	V	24.12	10.29	-5.65	28.76	34.77				
QPSK	2010.0	21110	Н	19.05	10.29	-5.65	23.69	34.77				
RB: 1,24	2312.5	27735	V	24.68	10.29	-5.65	29.32	34.77				
	2012.0	27735	Н	19.08	10.29	-5.65	23.72	34.77				
	2307.5	27685	V	25.33	10.28	-5.65	29.96	34.77				
BAND 30	2007.0	21000	Н	19.34	10.28	-5.65	23.97	34.77				
BW: 5M	2310.0	27710	V	20.69	10.28	-5.65	25.32	34.77				
16QAM	2010.0	21110	Н	19.27	10.28	-5.65	23.90	34.77				
RB: 1,0	2312.5	27735	V	24.58	10.29	-5.65	29.22	34.77				
	201210	21100	Н	19.79	10.29	-5.65	24.43	34.77				
	2307.5	27685	V	25.54	10.28	-5.65	30.17	34.77				
BAND 30	2307.5 2768		Н	19.36	10.28	-5.65	23.99	34.77				
BW: 5M 16QAM RB: 1,24	2310.0	27710	V	24.80	10.29	-5.65	29.44	34.77				
			Н	19.81	10.29	-5.65	24.45	34.77				
	2312.5	27735	V	25.17	10.29	-5.65	29.81	34.77				
			H	20.14	10.29	-5.65	24.78	34.77				



	EUT				Measur	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 30 BW: 10M	2310.0	27710	V	25.86	10.28	-5.65	30.49	34.77
QPSK RB: 1,0	2510.0		Н	19.91	10.28	-5.65	24.54	34.77
BAND 30 BW: 10M	2310.0	27710	V	25.19	10.29	-5.65	29.83	34.77
QPSK RB: 1,99		21110	Н	19.79	10.29	-5.65	24.43	34.77
BAND 30 BW: 10M		27710	V	26.17	10.28	-5.65	30.80	34.77
16QAM RB: 1,0	2310.0		Н	19.67	10.28	-5.65	24.30	34.77
BAND 30 BW: 10M	2310.0	27710	V	25.87	10.29	-5.65	30.51	34.77
16QAM RB: 1,99	2310.0		Н	20.07	10.29	-5.65	24.71	34.77



	EUT				Measu	rement		
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2547.5	40165	V	26.06	10.39	-5.88	30.57	33.01
BAND 41	2047.0	40105	Н	16.15	10.39	-5.88	20.66	33.01
BW: 5M	2600.0	40690	V	24.58	10.57	-6.00	29.15	33.01
QPSK	2000.0	+0000	Н	12.67	10.57	-6.00	17.24	33.01
RB: 1,0	2652.5	41215	V	20.94	10.73	-6.16	25.51	33.01
	2052.5	41215	Н	11.33	10.73	-6.16	15.90	33.01
	2547.5	40165	V	22.84	10.40	-5.88	27.36	33.01
BAND 41	2047.0	-0105	Н	15.98	10.40	-5.88	20.50	33.01
BW: 5M	2600.0	40690	V	23.28	10.57	-6.01	27.84	33.01
QPSK			Н	16.86	10.57	-6.01	21.42	33.01
RB: 1,24	2652.5 4	41215	V	22.89	10.68	-6.09	27.48	33.01
		11210	Н	21.63	10.68	-6.09	26.22	33.01
	2547.5	40165	V	22.04	10.40	-5.88	26.56	33.01
BAND 41	2047.0	+0100	Н	14.67	10.40	-5.88	19.19	33.01
BW: 5M	2600.0	40690	V	22.31	10.56	-6.00	26.87	33.01
16QAM	2000.0	+0000	Н	16.62	10.56	-6.00	21.18	33.01
RB: 1,0	2652.5	41215	V	19.72	10.74	-6.15	24.31	33.01
	2002.0	41210	Н	19.65	10.74	-6.15	24.24	33.01
	2547.5	40165	V	22.20	10.40	-5.88	26.72	33.01
BAND 41	2011.0		Н	13.87	10.40	-5.88	18.39	33.01
BW: 5M	2600.0	40690	V	23.74	10.57	-6.01	28.30	33.01
16QAM	2000.0		Н	14.71	10.57	-6.01	19.27	33.01
RB: 1,24	2652.5	41215	V	23.88	10.68	-6.09	28.47	33.01
	2002.0		Н	20.79	10.68	-6.09	25.38	33.01

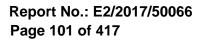




	EUT		Measurement					
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2550.0	40190	V	24.46	10.40	-5.88	28.98	33.01
BAND 41	2000.0	40190	Н	15.60	10.40	-5.88	20.12	33.01
BW: 10M	2600.0	40690	V	24.01	10.56	-6.00	28.57	33.01
QPSK	2000.0	40090	Н	14.48	10.56	-6.00	19.04	33.01
RB: 1,0	2650.0	41190	V	23.46	10.73	-6.15	28.04	33.01
	2030.0	41190	Н	19.67	10.73	-6.15	24.25	33.01
		40190	V	23.12	10.41	-5.89	27.64	33.01
BAND 41		-0130	Н	12.27	10.41	-5.89	16.79	33.01
BW: 10M	QPSK 2600.0	40690	V	23.51	10.58	-6.02	28.07	33.01
QPSK			Н	14.18	10.58	-6.02	18.74	33.01
RB: 1,49	2650.0	41190	V	21.42	10.74	-6.15	26.01	33.01
		41130	Н	18.63	10.74	-6.15	23.22	33.01
	2550.0	40190	V	22.12	10.40	-5.88	26.64	33.01
BAND 41	2000.0	40100	Н	12.31	10.40	-5.88	16.83	33.01
BW: 10M	2600.0	40690	V	23.35	10.56	-6.00	27.91	33.01
16QAM	2000.0	10000	Н	14.09	10.56	-6.00	18.65	33.01
RB: 1,0	2650.0	41190	V	23.09	10.72	-6.15	27.66	33.01
	2000.0	11100	Н	18.88	10.72	-6.15	23.45	33.01
	2550.0	40190	V	22.51	10.41	-5.89	27.03	33.01
BAND 41			Н	11.92	10.41	-5.89	16.44	33.01
BW: 10M	2600.0	40690	V	22.86	10.58	-6.02	27.42	33.01
16QAM		40090	Н	16.42	10.58	-6.02	20.98	33.01
RB: 1,49	2650.0	41190	V	23.10	10.74	-6.15	27.69	33.01
			Н	20.29	10.74	-6.15	24.88	33.01



	EUT		Measurement					
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2552.5	40215	V	24.77	10.40	-5.88	29.29	33.01
BAND 41	2002.0	40215	Н	14.54	10.40	-5.88	19.06	33.01
BW: 15M	2600.0	40690	V	24.90	10.55	-5.99	29.46	33.01
QPSK	2000.0	40090	Н	16.08	10.55	-5.99	20.64	33.01
RB: 1,0	2647.5	41165	V	24.80	10.72	-6.13	29.39	33.01
	2047.3	41105	Н	20.69	10.72	-6.13	25.28	33.01
	2552.5	40215	V	24.91	10.42	-5.89	29.44	33.01
BAND 41	BAND 41	40215	Н	14.48	10.42	-5.89	19.01	33.01
BW: 15M 2600.0	2600.0	40690	V	24.86	10.58	-6.02	29.42	33.01
QPSK	K	+0000	Н	16.35	10.58	-6.02	20.91	33.01
RB: 1,74	2647.5	41165	V	24.04	10.74	-6.15	28.63	33.01
	2047.5	11100	Н	21.34	10.74	-6.15	25.93	33.01
	2552.5	40215	V	24.62	10.40	-5.88	29.14	33.01
BAND 41	2002.0	40210	Н	14.27	10.40	-5.88	18.79	33.01
BW: 15M	2600.0	40690	V	24.99	10.56	-5.99	29.56	33.01
16QAM	2000.0	+0000	Н	16.21	10.56	-5.99	20.78	33.01
RB: 1,0	2647.5	41165	V	24.68	10.72	-6.13	29.27	33.01
	2047.0	41100	Н	20.69	10.72	-6.13	25.28	33.01
	2552.5	40215	V	24.84	10.42	-5.89	29.37	33.01
BAND 41	2002.0	10210	Н	14.11	10.42	-5.89	18.64	33.01
BW: 15M	2600.0	40690	V	24.86	10.58	-6.01	29.43	33.01
16QAM	2000.0	40090	Н	16.15	10.58	-6.01	20.72	33.01
RB: 1,74	2647.5	41165	V	23.89	10.74	-6.15	28.48	33.01
	201110		Н	21.09	10.74	-6.15	25.68	33.01





	EUT		Measurement					
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
	2555.0	40240	V	24.24	10.39	-5.88	28.75	33.01
BAND 41	2000.0	40240	Н	14.63	10.39	-5.88	19.14	33.01
BW: 20M	2600.0	40690	V	24.98	10.55	-5.99	29.54	33.01
QPSK	2000.0	40090	Н	15.82	10.55	-5.99	20.38	33.01
RB: 1,0	2645.0	41140	V	24.76	10.71	-6.11	29.36	33.01
	2043.0	41140	Н	20.91	10.71	-6.11	25.51	33.01
		40240	V	24.62	10.43	-5.89	29.16	33.01
BAND 41		40240	Н	13.87	10.43	-5.89	18.41	33.01
BW: 20M	3W: 20M QPSK 2600.0	40690	V	23.98	10.58	-6.02	28.54	33.01
QPSK			Н	17.40	10.58	-6.02	21.96	33.01
RB: 1,99	2645.0	41140	V	23.51	10.74	-6.15	28.10	33.01
			Н	21.26	10.74	-6.15	25.85	33.01
	2555.0	40240	V	24.83	10.40	-5.88	29.35	33.01
BAND 41	2000.0	40240	Н	14.22	10.40	-5.88	18.74	33.01
BW: 20M	2600.0	40690	V	25.14	10.55	-5.99	29.70	33.01
16QAM	2000.0	10000	Н	15.93	10.55	-5.99	20.49	33.01
RB: 1,0	2645.0	41140	V	24.75	10.71	-6.12	29.34	33.01
	2010.0		Н	21.03	10.71	-6.12	25.62	33.01
	2555.0	40240	V	25.48	10.42	-5.89	30.01	33.01
BAND 41	2000.0	10210	Н	13.60	10.42	-5.89	18.13	33.01
BW: 20M	2600.0	40690	V	25.15	10.58	-6.02	29.71	33.01
16QAM	2000.0	40090	Н	17.33	10.58	-6.02	21.89	33.01
RB: 1,99	2645.0	41140	V	23.22	10.74	-6.15	27.81	33.01
			Н	20.82	10.74	-6.15	25.41	33.01

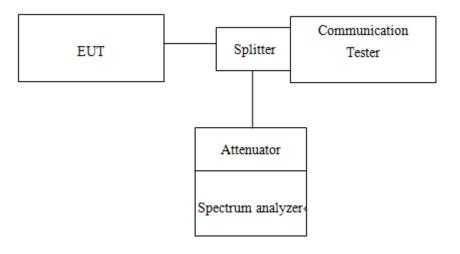


8. OCCUPIED BANDWIDTH MEASUREMENT

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	ted Emission (m	neasured at a	antenna 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	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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8.5. Measurement Result

		99% BW	99% BW	99% BW	26 dB BW	26 dB BW	26 dB BW
Freq.	СН	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
(MHz)		WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
			II	II			II
1850.20	9262	4.1535	4.1416	4.1374	4.697	4.684	4.681
1880.00	9400	4.1367	4.1436	4.1378	4.681	4.679	4.688
1909.80	9538	4.1566	4.1587	4.1417	4.684	4.714	4.684
-							
		99%	99 %	99 %	26 dB	26 dB	26 dB
Frog		BW	BW	BW	BW	BW	BW
Freq.	СН	BW (MHz)	BW (MHz)	BW (MHz)	BW (MHz)	BW (MHz)	BW (MHz)
Freq. (MHz)	СН						
	СН	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
	CH 4132	(MHz) WCDMA	(MHz) HSDPA	(MHz) HSUPA	(MHz) WCDMA	(MHz) HSDPA	(MHz) HSUPA
(MHz)		(MHz) WCDMA V	(MHz) HSDPA V	(MHz) HSUPA V	<mark>(MHz)</mark> WCDMA V	(MHz) HSDPA V	(MHz) HSUPA V



LTE BAND 2 Channel bandwidth: 1.4MHz								
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
1850.7	18607	1.0929	1.0950	1.245	1.239			
1880.0	18900	1.0925	1.0925	1.243	1.241			
1909.3	19193	1.0949	1.0949	1.253	1.239			

	LTE BAND 2 Channel bandwidth: 3MHz								
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)				
		QPSK	16QAM	QPSK	16QAM				
1851.5	18615	2.6935	2.6978	2.991	3.021				
1880.0	18900	2.6981	2.6938	2.974	3.000				
1908.5	19185	2.7013	2.7008	3.004	3.015				

LTE BAND 2 Channel bandwidth: 5MHz							
	СН	99 %	99 %	26 dB	26 dB		
Freq.		BW	BW	BW	BW		
(MHz)		(MHz)	(MHz)	(MHz)	(MHz)		
		QPSK	16QAM	QPSK	16QAM		
1852.5	18625	4.4898	4.4959	4.936	4.995		
1880.0	18900	4.4968	4.4991	4.991	4.956		
1907.5	19175	4.4970	4.5026	5.002	4.943		

LTE BAND 2 Channel bandwidth: 15MHz								
		99 %	99 %	26 dB	26 dB			
Freq.		BW	BW	BW	BW			
(MHz)		(MHz)	(MHz)	(MHz)	(MHz)			
		QPSK	16QAM	QPSK	16QAM			
1857.5	18675	13.499	13.505	14.67	14.76			
1880.0	18900	13.486	13.475	14.67	14.68			
1902.5	19125	13.461	13.469	14.65	14.70			

LTE BAND 2 Channel bandwidth: 10MHz							
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
1855.0	18650	9.0059	8.9697	9.836	9.757		
1880.0	18900	9.0117	8.9483	9.798	9.734		
1905.0	19150	8.9898	8.9454	9.812	9.747		

LTE BAND 2 Channel bandwidth: 20MHz								
Freq. (MHz)		99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
1860.0	18700	17.972	17.976	19.53	19.40			
1880.0	18900	17.936	17.957	19.47	19.50			
1900.0	19100	17.924	17.965	19.49	19.54			



LTE BAND 4 Channel bandwidth: 1.4MHz								
Freq. (MHz) CH	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
1710.7	19957	1.0925	1.0934	1.243	1.236			
1732.5	20175	1.0924	1.0938	1.243	1.236			
1754.3	20393	1.0926	1.0943	1.244	1.232			

LTE BAND 4 Channel bandwidth: 5MHz								
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
1712.5	19957	4.5023	4.4970	4.968	4.960			
1732.5	20175	4.4966	4.4904	4.972	4.983			
1752.5	20375	4.5021	4.4989	4.982	4.977			

LTE BAND 4 Channel bandwidth: 15MHz								
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
1717.5	20025	13.470	13.477	14.76	14.71			
1732.5	20175	13.442	13.455	14.71	14.68			
1747.5	20325	13.503	13.484	14.72	14.82			

LTE BAND 4 Channel bandwidth: 3MHz								
Freq. (MHz) CH	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
1711.5	19965	2.6973	2.6999	3.020	2.986			
1732.5	20175	2.6942	2.6964	2.976	3.002			
1753.5	20385	2.7007	2.6958	3.017	3.005			

LTE BAND 4 Channel bandwidth: 10MHz							
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
1715.0	20000	8.9857	8.9590	9.768	9.775		
1732.5	20175	8.9742	8.9514	9.784	9.802		
1750.0	20350	9.0170	8.9831	9.878	9.754		

LTE BAND 4 Channel bandwidth: 20MHz								
Freq. (MHz) CH	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
1720.0	20050	17.944	17.964	19.53	19.46			
1732.5	20175	17.897	17.947	19.35	19.41			
1745.0	20300	17.979	17.991	19.59	19.50			



LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz) CH	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
824.7	20407	1.0934	1.0952	1.244	1.241		
836.5	20525	1.0935	1.0941	1.242	1.238		
848.3	20643	1.0929	1.0912	1.243	1.235		

LTE BAND 5 Channel bandwidth: 3MHz								
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM			
825.5	20415	2.6956	2.6986	2.988	3.007			
836.5	20525	2.6962	2.6985	2.987	3.008			
847.5	20635	2.7009	2.6961	2.988	3.008			

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz) CH	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
826.5	20425	4.4953	4.5014	4.985	4.969		
836.5	20525	4.4943	4.5030	4.989	4.986		
846.5	20625	4.5017	4.4908	5.008	4.963		

LTE BAND 5 Channel bandwidth: 10MHz								
Freq.	СН	99% BW	99% BW	26 dB BW	26 dB BW			
(MHz)	Сп	(MHz)	(MHz)	(MHz)	(MHz)			
		QPSK	16QAM	QPSK	16QAM			
829.0	20450	8.9862	8.9860	9.783	9.792			
836.5	20525	8.9973	8.9636	9.769	9.802			
844.0	20600	9.0019	8.9623	9.781	9.732			

LTE BAND 7 Channel bandwidth: 5MHz							
Freq. (MHz)	· · · ·	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
2502.5	20775	4.5006	4.4957	4.985	5.000		
2535.0	21100	4.5006	4.4990	5.033	4.953		
2567.5	21425	4.4976	4.4917	5.024	4.946		

LTE BAND 7 Channel bandwidth: 10MHz							
Freq. (MHz) Cł	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
2505.0	20800	9.0039	8.9594	9.848	9.752		
2535.0	21100	8.9926	8.9684	9.832	9.787		
2565.0	21400	8.9658	8.9616	9.803	9.746		

LTE BAND 7 Channel bandwidth: 15MHz							
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
2507.5	20825	13.500	13.469	14.68	14.66		
2535.0	21100	13.450	13.460	14.71	14.70		
2562.5	21375	13.469	13.475	14.73	14.73		

LTE BAND 7 Channel bandwidth: 20MHz						
Freq. (MHz) CH	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
2510.0	20850	17.927	17.937	19.48	19.44	
2535.0	21100	17.952	17.995	19.56	19.42	
2560.0	21350	17.927	17.977	19.53	19.50	

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LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
699.7	23017	1.0922	1.0925	1.241	1.237		
707.5	23095	1.0920	1.0928	1.236	1.233		
715.3	23173	1.0923	1.0918	1.244	1.235		

LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
700.5	23025	2.6973	2.6994	2.981	3.007		
707.5	23095	2.6959	2.6992	2.987	2.995		
714.5	23165	2.6963	2.6965	3.009	3.000		

LTE BAND 12 Channel bandwidth: 5MHz							
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
701.5	23035	4.5023	4.4980	4.929	4.947		
707.5	23095	4.5024	4.4965	4.925	4.949		
713.5	23155	4.5040	4.4981	4.992	4.976		

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz) CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)			
		QPSK	16QAM	QPSK	16QAM		
701.5	23035	4.479	4.488	5.002	4.968		
707.5	23095	4.500	4.506	4.986	5.022		
713.5	23155	4.495	4.490	5.007	4.986		

LTE BAND 12 Channel bandwidth: 10MHz						
Freq. (MHz)		99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
704.0	23060	8.9764	8.9766	9.791	9.827	
707.5	23095	9.0051	8.9683	9.837	9.803	
711.0	23130	9.0080	8.9770	9.812	9.786	

LTE BAND 13 Channel bandwidth: 10MHz						
Freq. (MHz)	СН	99 %	99 %	26 dB	26 dB	
		BW	BW	BW	BW	
		(MHz)	(MHz)	(MHz)	(MHz)	
		QPSK	16QAM	QPSK	16QAM	
782.0	23230	8.9731	8.9170	9.782	9.713	

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LTE BAND 25 Channel bandwidth: 1.4MHz							
Freq.	СН	99% BW (MHz)	99% BW	26 dB BW (MHz)	26 dB BW (MHz)		
(MHz)		(MHz) QPSK	(MHz) 16QAM	QPSK	(MFIZ) 16QAM		
1850.7	26047	1.0953	1.0949	1.254	1.240		
1882.5	26365	1.0931	1.0981	1.253	1.259		
1914.3	26683	1.0945	1.0951	1.249	1.231		

	LTE BAND 25 Channel bandwidth: 5MHz								
Freq. (MHz)	· • •	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)				
		QPSK	16QAM	QPSK	16QAM				
1852.5	26065	4.4937	4.5014	4.976	5.017				
1882.5	26365	4.5022	4.4972	5.019	4.977				
1912.5	26665	4.4988	4.5040	4.997	4.960				

LTE BAND 25 Channel bandwidth: 15MHz							
Freq. (MHz)	· · · ·	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
1857.5	26115	13.502	13.494	14.71	14.88		
1882.5	26365	13.482	13.489	14.80	14.88		
1907.5	16615	13.498	13.498	14.61	14.78		

LTE BAND 25 Channel bandwidth: 3MHz								
Freq. (MHz) CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)				
		QPSK	16QAM	QPSK	16QAM			
26055.0	1851.5	2.7011	2.7005	2.977	3.026			
26365.0	1882.5	2.6978	2.7002	3.018	3.014			
26675.0	1913.5	2.6967	2.6970	2.995	3.001			

LTE BAND 25 Channel bandwidth: 10MHz								
Freq. (MHz) CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)				
		QPSK	16QAM	QPSK	16QAM			
1855.0	26090	8.9661	8.9794	9.732	9.666			
1882.5	26365	8.9718	8.9696	9.774	9.820			
1910.0	26640	8.9821	8.9855	9.750	9.823			

LTE BAND 25 Channel bandwidth: 20MHz							
Freq. (MHz)	I (H	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
1860.0	26140	17.981	17.970	19.66	19.38		
1882.5	26365	17.986	17.995	19.62	19.63		
1905.0	26590	17.984	18.007	19.59	19.47		



LTE BAND 26 Channel bandwidth: 1.4MHz							
Freq. (MHz)	· • • •	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
824.7	26797	1.0941	1.0911	1.240	1.239		
836.5	26915	1.0940	1.0939	1.249	1.240		
848.3	27033	1.0921	1.0930	1.242	1.239		

LTE BAND 26 Channel bandwidth: 5MHz									
Freq. (MHz)	Freq. (MHz) CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)				
		QPSK	16QAM	QPSK	16QAM				
826.5	26815	4.4898	4.4969	4.984	4.938				
836.5	26915	4.4847	4.4610	4.988	4.953				
846.5	27015	4.5022	4.4990	4.979	5.005				

LTE BAND 26 Channel bandwidth: 15MHz							
Freq. (MHz)	· • • •	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
831.5	26865	13.480	13.469	14.67	14.63		
836.5	26915	13.473	13.468	14.68	14.61		
841.5	26965	13.482	13.451	14.60	14.66		

LTE BAND 26 Channel bandwidth: 3MHz								
		99 %	99%	26 dB	26 dB			
Freq.	СН	BW	BW BW BW	BW				
(MHz)	СП	(MHz)	(MHz)	(MHz)	(MHz)			
		QPSK	16QAM	QPSK	16QAM			
825.5	26805	2.6968	2.6959	2.980	3.000			
836.5	26915	2.6982	2.6999	2.986	3.000			
847.5	27025	2.6966	2.6992	2.992	2.998			

LTE BAND 26 Channel bandwidth: 10MHz							
Freq. (MHz)	· • • •	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM		
829.0	26840	9.0077	8.9813	9.818	9.832		
836.5	26915	8.9945	8.9488	9.828	9.796		
844.0	26990	8.9957	8.9545	9.810	9.770		



LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz						
Freq. (MHz)		99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
814.7	26697	1.0915	1.0916	1.239	1.233	
819.0	26740	1.0939	1.0917	1.241	1.236	
823.3	26783	1.0931	1.0934	1.239	1.234	

LTE BAND 26 for part 90S Channel bandwidth: 5MHz						
Freq. (MHz)		99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
816.5	26715	4.4975	4.4975	4.976	4.976	
819.0	26740	4.4875	4.4973	4.976	4.937	
821.5	26765	4.4932	4.4913	4.983	4.933	

LTE BAND 26 for part 90S Channel bandwidth: 3MHz						
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
815.5	26705	2.6903	2.7011	2.988	3.007	
819.0	26740	2.6950	2.7003	2.976	3.005	
822.5	26775	2.6910	2.7001	2.995	3.001	

LTE BAND 26 for part 90S Channel bandwidth: 10MHz						
		99 %	99 %	26 dB	26 dB	
Freq.	CU	BW	BW	BW	BW	
(MHz)	СН	(MHz)	(MHz)	(MHz)	(MHz)	
		QPSK	16QAM	QPSK	16QAM	
819.0	26740	8.9855	8.9589	9.779	9.667	

LTE BAND 30 Channel bandwidth: 5MHz						
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
2307.5	27685	4.493	4.498	4.982	4.949	
2310.0	27710	4.492	4.498	4.976	4.996	
2312.5	27735	4.493	4.502	4.986	4.964	

LTE BAND 30 Channel bandwidth: 10MHz						
		99 %	99 %	26 dB	26 dB	
Freq.	<u></u>	BW	BW	BW	BW	
(MHz)	СН	(MHz)	(MHz)	(MHz)	(MHz)	
		QPSK	16QAM	QPSK	16QAM	
2310.0	27710	8.9979	8.9631	9.826	9.720	



LTE BAND 41 Channel bandwidth: 5MHz						
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
2547.5	40165	4.5094	4.5034	5.231	5.946	
2600.0	40690	4.5110	4.4941	5.275	5.056	
2652.5	41215	4.5079	4.5064	5.193	4.968	

LTE BAND 41 Channel bandwidth: 15MHz						
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM	
2552.5	40215	13.490	13.486	14.57	14.84	
2600.0	40690	13.479	13.440	14.53	14.78	
2647.5	41165	13.503	13.497	14.92	14.58	

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2550.0	40190	8.9780	8.9914	9.726	10.260
2600.0	40690	8.9777	8.9870	9.788	10.300
2650.0	41190	8.9823	8.9709	9.757	10.170

LTE BAND 41 Channel bandwidth: 20MHz						
Freq. (MHz)	СН	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	
(IVIT IZ)		QPSK	16QAM	QPSK	16QAM	
2555.0	40240	17.976	17.923	20.40	19.37	
2600.0	40690	17.918	17.914	20.11	19.45	
2645.0	41140	17.952	17.926	19.80	19.56	



WCDMA_B2_LowCH9262-1852.4



HSDPA_B2_LowCH9262-1852.4



WCDMA_B2_MidCH9400-1880

Ref Offset 14.5 dB	Alden 20 dB	Rada Device ETS	
Ref 20.00 alben			Center Proc
Genter 1.88 GHz Res BW 47 Miz Occupied Bandwidth	#VBW 150 kHz Total Power	Span 6 NHr Sweep 2.6 ms 31.9 dBm	CP Strp col case pro face freq Officer
4.1367 MH Transmit Freq Error 2.965 kF x dB Bandwidth 4.681 MF	Z IZ OBW Power	98.00 %	979

HSDPA B2 MidCH9400-1880



WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



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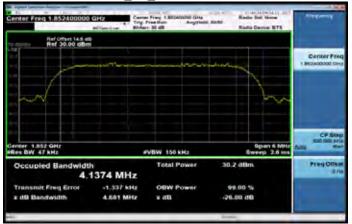
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f (886-2) 2298-0488



HSUPA_B2_LowCH9262-1852.4



WCDMA_B5_LowCH4132-826.4



HSUPA B2 MidCH9400-1880



WCDMA B5 MidCH4183-836.6



HSUPA_B2_HighCH9538-1907.6



WCDMA_B5_HighCH4233-846.6



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HSDPA_B5_LowCH4132-826.4



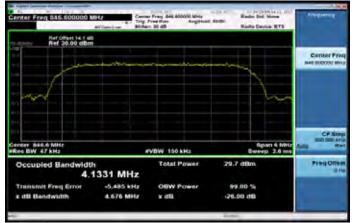
HSUPA_B5_LowCH4132-826.4



HSDPA_B5_MidCH4183-836.6

enter Freq 835.600000 MHz	Carman Frang \$36,600000 Mints Trig Frank Barn Arrgittale #Adam 20 dB	Rada Davise 1875	
Ref 30.00 dBm			
June			Center Pres
~~		tim	
enter 836.6 MHz Res BW 47 kHz	#VBW 150 kHz	Span 6 MHz Sweep 2.6 ms	CP Stop min cam period
Occupied Bandwidth 4.1260	Total Power MHz	30.3 dBm	Preg Officer Drug
	923 Hz OBW Power 12 MHz x dB	99.00 %	

HSUPA B5 MidCH4183-836.6



HSDPA_B5_HighCH4233-846.6



HSUPA_B5_HighCH4233-846.6



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Band2 1.4MHz_QPSK 6 0_LowCH18607-1850.7



Band2 1.4MHz 16-QAM 6 0 LowCH18607-1850.7

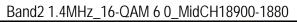


Band2 1.4MHz QPSK 6 0 MidCH18900-1880



Band2 1.4MHz_QPSK 6 0_HighCH19193-1909.3









Band2 1.4MHz_16-QAM 6 0_HighCH19193-1909.3

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Band2 3MHz_QPSK 15 0_LowCH18615-1851.5



Band2 3MHz_16-QAM 15 0_LowCH18615-1851.5



Band2 3MHz_QPSK 15 0_MidCH18900-1880



Band2 3MHz_QPSK 15 0_HighCH19185-1908.5









Band2 3MHz_16-QAM 15 0_HighCH19185-1908.5

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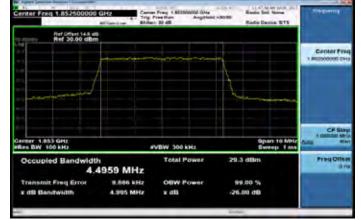
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Band2 5MHz_QPSK 25 0_LowCH18625-1852.5



Band2 5MHz_16-QAM 25 0_LowCH18625-1852.5

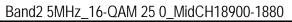


Band2 5MHz_QPSK 25 0_MidCH18900-1880

Parl Offset 14.5 dis-			Center Freq
Genter 1.88 GHz Res BW 100 kHz	WWBW 300 kHz	Span të MHr Sweep i mi	CP Step 1 contract of U
Occupied Bandwidth 4.4968 MHz	Total Power	.30.3 dBm	Preg Officer 1979
Transmit Freq Error 12.091 kHz z dB Bandwidth 4.990 MHz		99.00 % -26.00 dB	

Band2 5MHz_QPSK 25 0_HighCH19175-1907.5









Band2 5MHz_16-QAM 25 0_HighCH19175-1907.5

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Band2 10MHz_QPSK 50 0_LowCH18650-1855



Band2 10MHz 16-QAM 50 0 LowCH18650-1855



Band2 10MHz_QPSK 50 0_MidCH18900-1880



Band2 10MHz_QPSK 50 0_HighCH19150-1905



Band2 10MHz 16-QAM 50 0 MidCH18900-1880





Band2 10MHz_16-QAM 50 0_HighCH19150-1905

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Band2 15MHz_QPSK 75 0_LowCH18675-1857.5



Band2 15MHz 16-QAM 75 0 LowCH18675-1857.5



Band2 15MHz_QPSK 75 0_MidCH18900-1880

Center Freq 1.880000000	Trip.	Pres Burn Avgittale	Radio Davise ETS	Anadoreal
Ref 30.00 dBm				
	/		<u></u>	Genter Prog
Genter 1.88 GHz RRes BW 300 kHz		VEW 910 kHz	tipan 30 Mt Dweep 1 m	
Occupied Bandwidt	486 MHz	Total Power	30.6 dBm	Preg Officer D/u
Transmit Freq Error x dB Bandwidth	49,630 kHz 14.67 MHz	OBW Power x dB	99.00 % -26.00 dB	
			large .	

Band2 15MHz_QPSK 75 0_HighCH19125-1902.5



Band2 15MHz_16-QAM 75 0_MidCH18900-1880





Band2 15MHz_16-QAM 75 0_HighCH19125-1902.5

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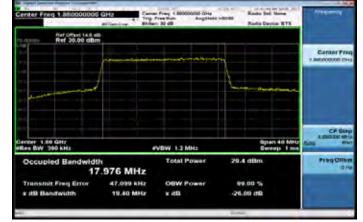
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Band2 20MHz_QPSK 100 0_LowCH18700-1860



Band2 20MHz 16-QAM 100 0 LowCH18700-1860



Band2 20MHz_QPSK 100 0_MidCH18900-1880



Band2 20MHz_QPSK 100 0_HighCH19100-1900



Band2 20MHz_16-QAM 100 0_MidCH18900-1880



ter Freq 1.9 Ref 30.00 dBm Center Pr BW 300 kH n 40 h VEW 1.2 MH d B 29.5 dBn Cobat IR 17.965 MHz 37.415 KHz 19.54 MHz OBW 99.00 % x dB x dB Be 26.00 08

Band2 20MHz_16-QAM 100 0_HighCH19100-1900

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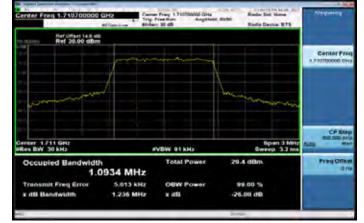
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Band4 1.4MHz_QPSK 6 0_LowCH19957-1710.7



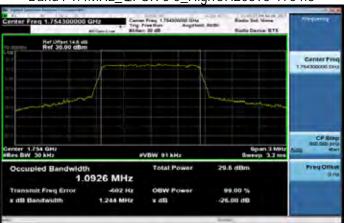
Band4 1.4MHz 16-QAM 6 0 LowCH19957-1710.7

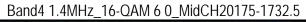


Band4 1.4MHz QPSK 6 0 MidCH20175-1732.5



Band4 1.4MHz_QPSK 6 0_HighCH20393-1754.3









Band4 1.4MHz_16-QAM 6 0_HighCH20393-1754.3

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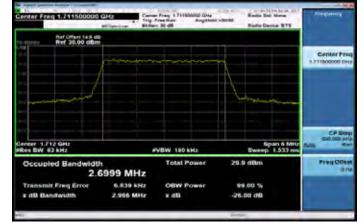
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Band4 3MHz_QPSK 15 0_LowCH19965-1711.5



Band4 3MHz 16-QAM 15 0 LowCH19965-1711.5



Band4 3MHz QPSK 15 0 MidCH20175-1732.5



Band4 3MHz_QPSK 15 0_HighCH20385-1753.5









Band4 3MHz_16-QAM 15 0_HighCH20385-1753.5

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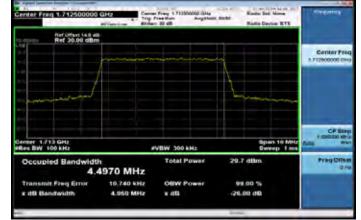
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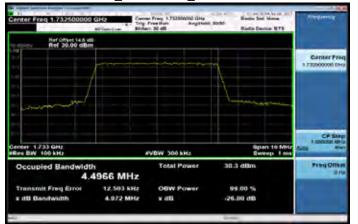
Band4 5MHz_QPSK 25 0_LowCH19975-1712.5



Band4 5MHz_16-QAM 25 0_LowCH19975-1712.5



Band4 5MHz QPSK 25 0 MidCH20175-1732.5



Band4 5MHz_QPSK 25 0_HighCH20375-1752.5









Band4 5MHz_16-QAM 25 0_HighCH20375-1752.5

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Band4 10MHz_QPSK 50 0_LowCH20000-1715



Band4 10MHz 16-QAM 50 0 LowCH20000-1715



Band4 10MHz QPSK 50 0 MidCH20175-1732.5

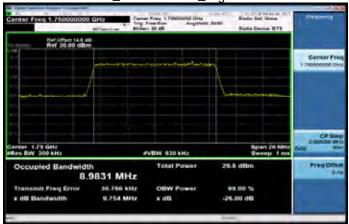


Band4 10MHz_QPSK 50 0_HighCH20350-1750



Band4 10MHz 16-QAM 50 0 MidCH20175-1732.5





Band4 10MHz_16-QAM 50 0_HighCH20350-1750

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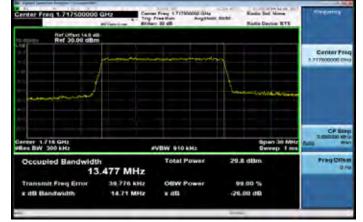
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Band4 15MHz_QPSK 75 0_LowCH20025-1717.5



Band4 15MHz 16-QAM 75 0 LowCH20025-1717.5



Band4 15MHz QPSK 75 0 MidCH20175-1732.5



Band4 15MHz_QPSK 75 0_HighCH20325-1747.5



Band4 15MHz 16-QAM 75 0 MidCH20175-1732.5



ter Freq 1,74750 Ref 30.00 dBm Center Pro er 1,748 GH n 30 h BW 910 kH 30.4 dillo d B Const IN 13.484 MHz 18,476 kHz 14,82 MHz OBW 99.00 % x dB x dB Ba -26.00 dB

Band4 15MHz_16-QAM 75 0_HighCH20325-1747.5

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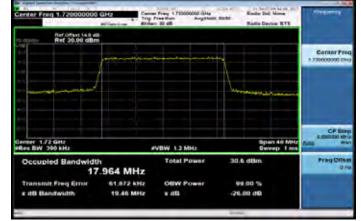
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Band4 20MHz_QPSK 100 0_LowCH20050-1720



Band4 20MHz 16-QAM 100 0 LowCH20050-1720



Band4 20MHz_QPSK 100 0_MidCH20175-1732.5



Band4 20MHz_QPSK 100 0_HighCH20300-1745



Band4 20MHz 16-QAM 100 0 MidCH20175-1732.5



ter Fred 1.7450 Ref 30.00 dBm Center Pr er 1,745 GH 140 h VEW 1.2 MH 29.7 dBn dB Cobat IR 17.991 MHz 13,457 KHz OBW 99.00 % 19.40 MH x dB x dB Be 26.00 08

Band4 20MHz_16-QAM 100 0_HighCH20300-1745

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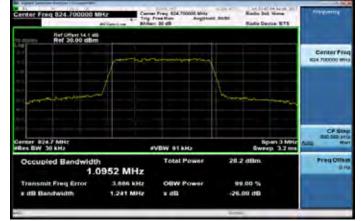
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Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7



Band5 1.4MHz 16-QAM 6 0 LowCH20407-824.7

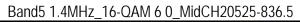


Band5 1.4MHz_QPSK 6 0_MidCH20525-836.5



Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3







er Freq 848.3

Band5 1.4MHz_16-QAM 6 0_HighCH20643-848.3



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Band5 3MHz_QPSK 15 0_LowCH20415-825.5



Band5 3MHz 16-QAM 15 0 LowCH20415-825.5



Band5 3MHz QPSK 15 0 MidCH20525-836.5



Band5 3MHz_QPSK 15 0_HighCH20635-847.5



Band5 3MHz 16-QAM 15 0 MidCH20525-836.5



er Freq 847.50 Ref 30.00 dBm Center Pr er 847.5 Mi Span 6 N p 1.533 VEW 180 KH 29.0 dBr Const Bo 2.6961 MHz 6.114 KHZ 3.008 MHz NBO X dB 99.00 % x dB Be 26.00 08

Band5 3MHz_16-QAM 15 0_HighCH20635-847.5

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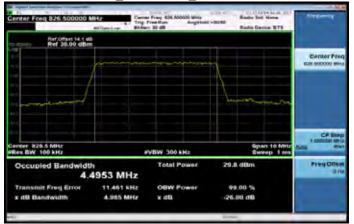
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Band5 5MHz_QPSK 25 0_LowCH20425-826.5



Band5 5MHz_16-QAM 25 0_LowCH20425-826.5



Band5 5MHz_QPSK 25 0_MidCH20525-836.5

enter Freq 835 500000 M	Trig.	r Frang B36 A00A06 Minta Frank Burn Arrgittude m 30 dB	Sold Ratio Date Maria Ratio Device STS	in the second se
Ref 30.00 dBm				
			-	Center Prec use eccose entr
frank and the second			human	
enter 830.5 MHr Res BW 100 kHz		VBW 300 kHz	Span 10 MP Sweep 1 m	CP Ster t contrast et- funs and
Occupied Bandwidth 4.4	943 MHz	Total Power	29.5 dBm	Preg Office Drug
Transmit Freq Error # dB Bandwidth	9.103 KHZ 4.989 MHz	OBW Power x dB	99.00 % 25.00 dB	

Band5 5MHz_QPSK 25 0_HighCH20625-846.5









Band5 5MHz_16-QAM 25 0_HighCH20625-846.5

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Band5 10MHz_QPSK 50 0_LowCH20450-829



Band5 10MHz 16-QAM 50 0 LowCH20450-829



Band5 10MHz_QPSK 50 0_MidCH20525-836.5



Band5 10MHz_QPSK 50 0_HighCH20600-844



Band5 10MHz_16-QAM 50 0_MidCH20525-836.5





Band5 10MHz_16-QAM 50 0_HighCH20600-844

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Band7 5MHz_QPSK 25 0_LowCH20775-2502.5



Band7 5MHz_16-QAM 25 0_LowCH20775-2502.5



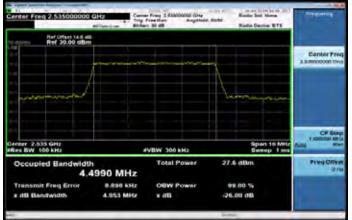
Band7 5MHz_QPSK 25 0_MidCH21100-2535

	allinging \$1.6a	10.48	Radio Device ETS	And a second second
Ref 30.00 dBm				
			Juni	Center Proc
Denter 2.535 GHz IRes BW 100 kHz	-	VBW 300 kHz	Span 19 MHr Sweep 1 ms	CA Story (calificat et la faite and
Occupied Bandwidth 4.5	5006 MHz	Total Power	28.6 dBm	Preg Officer D/U
	8.562 kHz	OBW Power	99.00 %	

Band7 5MHz_QPSK 25 0_HighCH21425-2567.5



Band7 5MHz_16-QAM 25 0_MidCH21100-2535



ter Freq 2.557500 Ref 30.00 dBm Center Pr ... BW 100 kH n 10 h 9 VEW 300 kH 27.2 dBn d Ba Const Bo 4.4917 MHz 10.287 KHZ 4.946 MHz OBW P 99.00 % x dB Be -26.00 dB

Band7 5MHz_16-QAM 25 0_HighCH21425-2567.5

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Band7 10MHz_QPSK 50 0_LowCH20800-2505



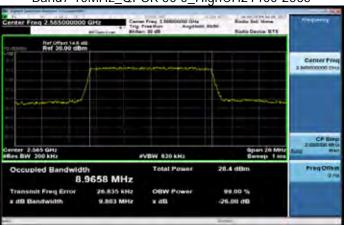
Band7 10MHz_16-QAM 50 0_LowCH20800-2505



Band7 10MHz_QPSK 50 0_MidCH21100-2535

	Calculate MARKET	10 ath	Ratio Device 1873	
Ref 30.00 dBm				
	incher and and		~	Center Prec
minim			1	
Genter 2.535 GHz Res BW 200 kHz	eV	540 620 kHz	Span 28 M Sweep 1	CP Store 2 contract of G
Occupied Bandwidth 8 99	26 MHz	Total Power	28.4 dBm	Preg Office Drug
0.00	26.712 KHz	OBW Power	99.00 %	

Band7 10MHz_QPSK 50 0_HighCH21400-2565



Band7 10MHz_16-QAM 50 0_MidCH21100-2535



ter Freq 2.565 Ref 30.00 dBm Center Pr er 2,565 GH n 20 h θę VEW 620 kH 27.2 dBn d B Cobat Br 8.9616 MHz 23,608 kHz NBO X dB 99.00 % 9.746 MH x dB Ba -26.00 dB

Band7 10MHz_16-QAM 50 0_HighCH21400-2565

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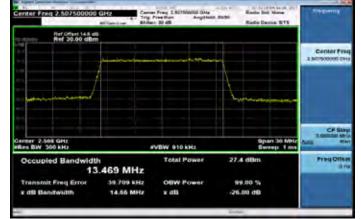
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Band7 15MHz_QPSK 75 0_LowCH20825-2507.5



Band7 15MHz 16-QAM 75 0 LowCH20825-2507.5



Band7 15MHz_QPSK 75 0_MidCH21100-2535

	Calcillan #After	n 30 dfl	Rate Dentes ETS	
Ref 30.00 dBm				
	- *			Genter Prog
Genter 1,733 GHz Res BW 300 kHz		VBW 910 kHz	Span 30 M Sweep 1 #	CF Strep Lonital de la Auto de la
Occupied Bandwidth 13.4	49 MHz	Total Power	30.5 dBm	Preg Officer
Transmit Freq Error x dB Bandwidth	42.311 KHz 14.71 MHz	OBW Power x dB	99.00 % -26.00 dB	

Band7 15MHz_QPSK 75 0_HighCH21375-2562.5



Band7 15MHz 16-QAM 75 0 MidCH21100-2535



ter Freq 2.5625 Ref 30.00 dBm Center Pr er 2.563 GHz n 30 h 9 VEW 910 kH Const IRo 27.5 dBn d Ba 13.475 MHz 18,841 KHz OBW P 99.00 % 14.73 MHz x dB x dB Ba -26.00 dB

Band7 15MHz_16-QAM 75 0_HighCH21375-2562.5

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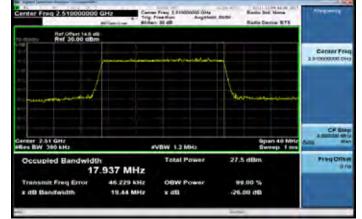
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Band7 20MHz_QPSK 100 0_LowCH20850-2510



Band7 20MHz 16-QAM 100 0 LowCH20850-2510



Band7 20MHz_QPSK 100 0_MidCH21100-2535



Band7 20MHz_QPSK 100 0_HighCH21350-2560



Band7 20MHz_16-QAM 100 0_MidCH21100-2535



ter Freq 2.56 Ref 30.00 dBm Center Pr BW 300 kH n 40 h VBW 1.2 MH Cobat IR 27.5 dBn d Ba 17.977 MHz 41,686 KHz OBWI 99.00 % 19.50 MH x dB x dB Be 26.00 08

Band7 20MHz_16-QAM 100 0_HighCH21350-2560

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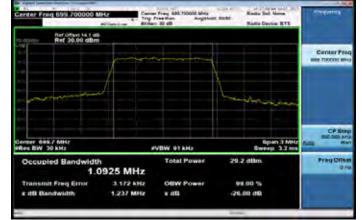
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Band12 1.4MHz_QPSK 6 0_LowCH23017-699.7



Band12 1.4MHz 16-QAM 6 0 LowCH23017-699.7

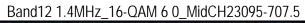


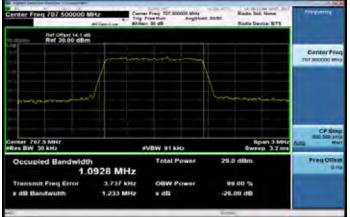
Band12 1.4MHz_QPSK 6 0_MidCH23095-707.5



Band12 1.4MHz_QPSK 6 0_HighCH23173-715.3









Band12 1.4MHz_16-QAM 6 0_HighCH23173-715.3

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Band12 3MHz_QPSK 15 0_LowCH23025-700.5



Band12 3MHz 16-QAM 15 0 LowCH23025-700.5



Band12 3MHz_QPSK 15 0_MidCH23095-707.5



Band12 3MHz_QPSK 15 0_HighCH23165-714.5



Band12 3MHz_16-QAM 15 0_MidCH23095-707.5



ter Freq 714.50 Ref 30.00 dBm Center Pro er 714.5 Mi Span 6 N p 1.533 BW 180 KH 29.5 dBr Const Bo 2.6965 MHz 3.521 KHZ 3.000 MHz NBO X dB 99.00 % x dB Ba -26.00 dB

Band12 3MHz_16-QAM 15 0_HighCH23165-714.5

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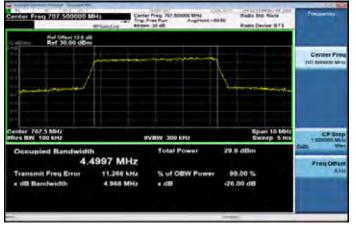
Band12 5MHz_QPSK 25 0_LowCH23035-701.5



Band12 5MHz 16-QAM 25 0 LowCH23035-701.5

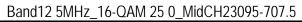


Band12 5MHz_QPSK 25 0_MidCH23095-707.5



Band12 5MHz_QPSK 25 0_HighCH23155-713.5







er Freg 713 500000 M Ref 30.00 dBm Center Pro er 713.5 MHz BW 100 kHz n 10 h 99 W 300 kH 30.1 dillo dB Const Bo

OBW P

Band12 5MHz_16-QAM 25 0_HighCH23155-713.5

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x dB Be

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4.5040 MHz

10,686 KHz

4.902 MH

www.tw.sgs.com

99.00 %

-26.00 dB



Band12 10MHz_QPSK 50 0_LowCH23060-704



Band12 10MHz 16-QAM 50 0 LowCH23060-704



Band12 10MHz_QPSK 50 0_MidCH23095-707.5

Center Freq 707.500000		President Arrightede m. 30 dfl	Ratio Device 875	
Ref 30.00 dBm				
	,	- in the second	~	Center Freq TUT BODDOG MHU
NI CONTRACTOR OF			home	
Genter 707.5 MHz Res BW 200 kHz		WBW 620 kHz	Span 21 MP	CA Store Zominist or G
Occupied Bandwidt 9.1	h 0051 MHz	Total Power	30,5 dBm	Preg Officer Drug
Transmit Freq Error x dB Bandwidth	18.256 kHz 9.837 MHz	OBW Power	99.00 %	

Band12 10MHz_QPSK 50 0_HighCH23130-711



Band12 10MHz_16-QAM 50 0_MidCH23095-707.5





Band12 10MHz_16-QAM 50 0_HighCH23130-711

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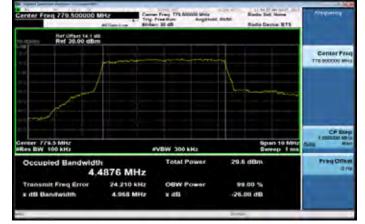
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Band13 5MHz_QPSK 25 0_LowCH23205-779.5



Band13 5MHz_16-QAM 25 0_LowCH23205-779.5



Band13 5MHz_QPSK 25 0_MidCH23230-782

Center Freq 782.000000 MHz	Carrant Frang 782 000000 Mints 1 Trigs Frank Blum Arrgittadd #Athan: 30 dfl	Ander Carles and Ander Radio Sal Views Radio Carlos ETS	- Constrainty
Ref 39.00 dBm			
			Center Prog
Denzer 782 Mills Res BW 100 kHz	WBW DOO KH2	Span 19 MHr Gweep I ms	CP Store
Occupied Bandwidth 4.5004 N	Total Power	30.6 dBm	Preg Officer Drug
Transmit Freq Error 13.827 x dB Bandwidth 4.966		99.00 % -26.00 dB	

Band13 5MHz_QPSK 25 0_HighCH23255-784.5









Band13 5MHz_16-QAM 25 0_HighCH23255-784.5

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Band13 10MHz_QPSK 50 0_MidCH23230-782



Band13 10MHz_16-QAM 50 0_MidCH23230-782

Center Freq 782.000000 MH	Trig.	r Frang TAX 000000 Minta Frank Hum Arrgithadd m 30 dff	Audel Radio Daylor Bill	
Ref 30.00 dBm				
1				Center Prec 192 000000 MHz
			handlen	-
lenter 782 MHz Res BW 200 kHz	_	VBW 620 kH2	tipan 24 h Dweep 1	CP Street
Occupied Bandwidth 8.91	70 MHz	Total Power	30.0 dBm	Preg Officer D Fo
Transmit Freq Error x dB Bandwidth	55.633 KHz 9.713 MHz	OBW Power x dB	99.00 %	

Band25 1.4MHz_QPSK 6 0_LowCH26047-1850.7



Band25_1_4MHz_16QAM_6 0_ LowCH26047-1850.7



Band25 1.4MHz QPSK 6 0 MidCH26365-1882.5



Band25 1.4MHz_QPSK 6 0_ HighCH26683-1914.3



Band25_1_4MHz_16QAM_6 0_ MidCH26365-1882.5



Band25_1_4MHz_16QAM_6 0_ HighCH26683-1914.3



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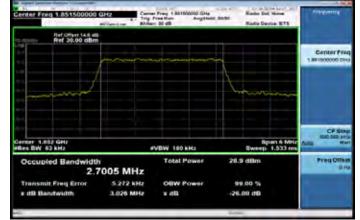
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Band25_3MHz_QPSK_15 0_ LowCH26055-1851.5



Band25_3MHz_16QAM_15 0_ LowCH26055-1851.5



Band25_3MHz_QPSK_15 0_ MidCH26365-1882.5

decker 1.883 GHz Res BW 55 Mz Occupied Bandwidth Total Power 382 dBm Pring Office	Center Freq 1.882500000 GH	Trig.	rise Bury Argittald c 30 dB	Rate Dayles 871	
Certain 1.883 GHz Res BW 52 Atz Cocurled Bandwidth 2.6978 MHz Transmit Freq Error 4.822 Mtz OBW Power 99.00 %	Ref 30.00 dBm				
denser 1.883 GHz Bipan 6 MHz Bipan 6 MHz Average 2000 Bipan 6 MHz Bipan 6 MHz Average 2000 Bipan 6 MHz Bipan 6 MHz Average 2000 Bipan 6 MHz Bi				1 1	Center Proc
2.6978 MHz Transmit Freq Error 4.822 kHz OBW Power 99.00 %			VBW 180 kHz		title Autom Start
		78 MHz	Total Power	30.2 dBm	Preg Officer D FU

Band25_3MHz_QPSK_15 0_ HighCH26675-1913.5



Band25_3MHz_16QAM_15 0_ MidCH26365-1882.5



Band25_3MHz_16QAM_15 0_ HighCH26675-1913.5



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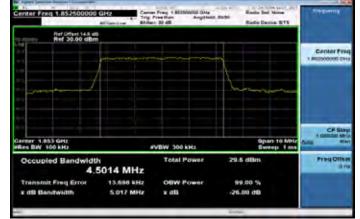
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Band25_5MHz_QPSK_25 0_ LowCH26065-1852.5



Band25_5MHz_16QAM_25 0_ LowCH26065-1852.5



Band25_5MHz_QPSK_25 0_ MidCH26365-1882.5



Band25_5MHz_QPSK_25 0_ HighCH26665-1912.5



Band25_5MHz_16QAM_25 0_ MidCH26365-1882.5



Band25_5MHz_16QAM_25 0_ HighCH26665-1912.5



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Band25_10MHz_QPSK_50 0 LowCH26090-1855



Band25_10MHz_16QAM_50 0_ LowCH26090-1855



Band25_10MHz_QPSK_50 0 _ MidCH26365-1882.5

Ref Offset 14.5 of		n 3) 48	Radio Davina 1875	
Ref 30.00 dBm				
	-		7	Center Pres
	1		1	
and the second s			Arristation and the second of	
0.0				CP SIN
Res BW 200 kHz	1	WBW 620 kHz	Span 26 MH Sweep 1 m	
Occupied Bandwidt 8.1	h 9718 MHz	Total Power	29.7 dBm	Preg Office
Transmit Freq Error	30.231 KHz	OBW Power	99.00 %	
x dB Bandwidth	9.774 MHz	x dB	-26.00 dB	

Band25_10MHz_QPSK_50 0 _ HighCH26640-1910



Band25_10MHz_16QAM _50 0_ MidCH26365-1882.5



Band25_10MHz_16QAM _50 0 _ HighCH26640-1910



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Band25_15MHz_QPSK_75 0_LowCH26090-1855



Band25_15MHz_16QAM_75 0_LowCH26090-1855



Band25_15MHz_QPSK_75 0_ MidCH26365-1882.5

enter Freq 1.882500000	Trig.	rive Burn Avgittald n 30 dB	Radio Device 875	
Ref 30.00 dBm				
				Center Pres
				C# Sam
Res BW 300 kHz		VEW 910 kHz	Span 30 MHz Sweep 1 ms	Lanta en
Occupied Bandwidth 13	482 MHz	Total Power	30.6 dBm	Preg Office 979
Transmit Freq Error x dB Bandwidth	45.240 KHz	OBW Power	99.00 %	

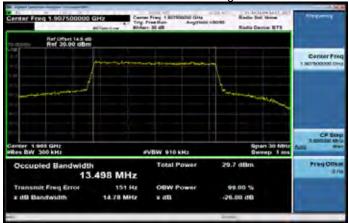
Band25_15MHz_QPSK_750_HighCH26640-1910



Band25_15MHz_16QAM_75 0_LowCH26090-1855



Band25_15MHz_16QAM_75 0 _ HighCH26640-1910



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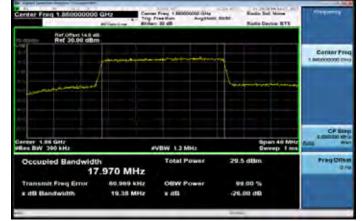
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Band25_20MHz_QPSK_100 0_LowCH26140-1860



Band25_20MHz_16QAM_100 0_LowCH26140-1860



Band25_20MHz_QPSK_100 0_MidCH26365-1882.5

		Presidiare Arrystada re 30 dfl	Rate Dentes ETS	
Ref 30.00 dB	m			
	frame			Canter Pres
	/		Linness	-
enter 1.883 GHz Res BW 390 kHz		WBW 1.2 MHz	tipan 40 M Ewrep 1 /	
Occupied Bandwid	th 7.986 MHz	Total Power	31,3 dBm	Preg Office
Transmit Freq Error x dB Bandwidth	59,781 KHz	OBW Power	99.00 %	

Band25_20MHz_QPSK_100 0_HighCH26590-1905



Band25_20MHz_16QAM_100 0_MidCH26365-1882.5





Band25_20MHz_16QAM_100 0_HighCH26590-1905

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Band26 1.4MHz_QPSK_6 0_LowCH26797-824.7



Band26 1.4MHz_16-QAM_6 0_ LowCH26797-824.7



Band26 1.4MHz_QPSK_6 0_MidCH26915-836.5



Band26 1.4MHz_QPSK_6 0_HighCH27033-848.3







Band26 1.4MHz_16-QAM_6 0_ HighCH27033-848.3



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Band26 3MHz_QPSK_15 0_LowCH26805-825.5



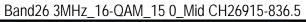
Band26 3MHz_16-QAM_15 0_Low CH26805-825.5



Band26 3MHz_QPSK_15 0_MidCH26915-836.5



Band26 3MHz_QPSK_15 0_HighCH27025-847.5 Freq 847.50 Ref 30.00 dBm Center Pre oer 847.5 MH Span 6 M SW 180 KH 30.3 dB Total III 2.6966 MHz 4.240 KHz NBO X dB 99.00 % 2.902 MHz x dB Bandy -26.00 dB







Band26 3MHz_16-QAM_15 0_HighCH27025-847.5

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Band26 5MHz_QPSK_25 0_LowCH26815-826.5



Band26 5MHz_16-QAM_25 0_LowCH26815-826.5



Band26 5MHz_QPSK_25 0_MidCH26915-836.5

Genter Freq 831.500000 MHz	Carrier Free 51 A00000 Mints Trig. Prest Bure Arrgittuid #Affar: 30 dB	Aude Bade Device STS	and being
Ref 20.00 dBm			
- June			Center Pred
hand		1	
lenter 831.5 MHr Res BW 100 kHz	#VBW 300 kHz	Span 10 MHr Gweep 1 ms	CP Sare Land and and
Occupied Bandwidth 4,4847 M	Total Power Hz	29.5 dBm	Pring Officer 1979
Transmit Freq Error 11.041 x dB Bandwidth 4.968		99.00 % -26.00 dB	

Band26 5MHz_QPSK_25 0_HighCH27015-846.5



Band26 5MHz_16-QAM_25 0_MidCH26915-836.5





Band26 5MHz_16-QAM_25 0_HighCH27015-846.5

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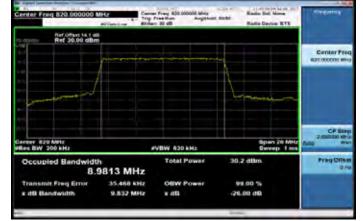
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Band26 10MHz_QPSK_50 0_LowCH26840-829



Band26 10MHz_16-QAM_50 0_LowCH26840-829

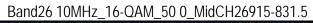


Band26 10MHz_ QPSK_50 0_MidCH26915-831.5

Center Freq 831 500000 MHz	Trig.	er Frang 831 600000 Minia Press Blain Arrgithald m 30 dB	Audo Bat Views Audo Bat Views Rinto Device ETS	and beauty
Ref 39.00 dBm				
				Center Prog
Denter 831.5 MHr Res BW 200 kHz	_	WBW 620 kHz	Span 28 M Sweep 1 r	
Occupied Bandwidth 8.99	45 MHz	Total Power	30,4 dBm	Preg Officer Drug
Transmit Freq Error # dB Bendwidth	30.592 kHz 9.828 MHz	OBW Power x dB	99.00 % 26.00 #B	
			hete.	

Band26 10MHz_QPSK_50 0_HighCH26990-844









Band26 10MHz_16-QAM_50 0_HighCH26990-844

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Band26 15MHz_QPSK_75 0_LowCH26825-822.5



Band26 15MHz_16QAM_75 0_LowCH26825-822.5

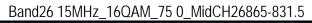


Band26 15MHz_QPSK_75 0_MidCH26865-831.5



Band26 15MHz_QPSK_75 0_HighCH26965-841.5









Band26 15MHz_16QAM_75 0_HighCH26965-841.5

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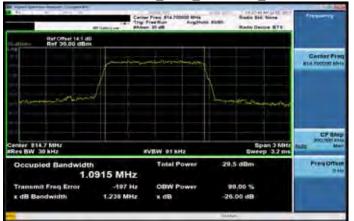
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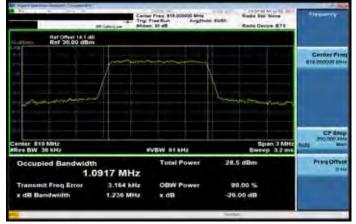
LTE Band 26 for Part 90S_1.4M_QPSK 6 0_LowCH26697 LTE Band 26 for Part 90S_1.4M_16QAM_6 0_ LowCH26697





Ref 35.00 dBm				1.000
	1 miles			Canter Proc sta 800000 Mete
wanne weiter	1		L	-
Res BW 30 KHz		VBW 01 KHz	Span 3 N Sweep 3.2	
Occupied Bandwidt	939 MHz	Total Power	29,5 dBm	Pres Offse
Transmit Freq Error x dB Bandwidth	-525 Hz	OBW Power	99.00 %	

LTE Band 26 for Part 90S_1.4M_ QPSK 6 0_MidCH26740 LTE Band 26 for Part 90S_1.4M_16QAM_6 0_ MidCH26740



LTE Band 26 for Part 90S_1.4M_ QPSK 6 0_HighCH26783



LTE Band 26 for Part 90S_1.4M_16QAM_6 0_ HighCH26783



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LTE Band 26 for Part 90S_3M_QPSK_15 0_LowCH26705



LTE Band 26 for Part 90S 3M 16QAM 15 0 LowCH26705



LTE Band 26 for Part 90S_3M_QPSK_15 0_ MidCH26740

	the second se	
		Gentler Prot
		CF BAD
WWW 180 kHz	Span 6 MHz Sweep 1.533 ms	ante atenti
Total Power Hz	29.8 dBm	Preq Office D Ho
	99,00 % -26.00 dB	
	#VBW 180 kHz Todal Power HZ kHz OBW Power	RVBW 180 kHz Span 8 WHr Stotel Power 29.8 dBm Hz kHz ODW Power 99.00 %

LTE Band 26 for Part 90S_3M_16QAM_15 0_ MidCH26740



LTE Band 26 for Part 90S_3M_QPSK_15 0_ HighCH26775



LTE Band 26 for Part 90S_3M_QPSK_15 0_ HighCH26775



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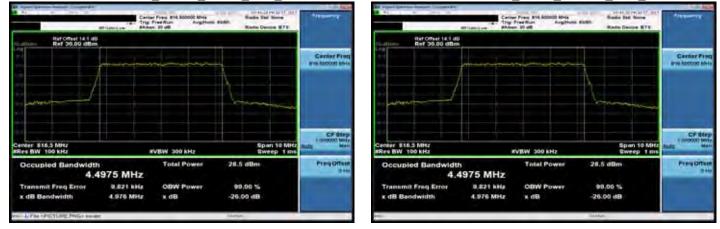
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Report No.: E2/2017/50066 Page 155 of 417

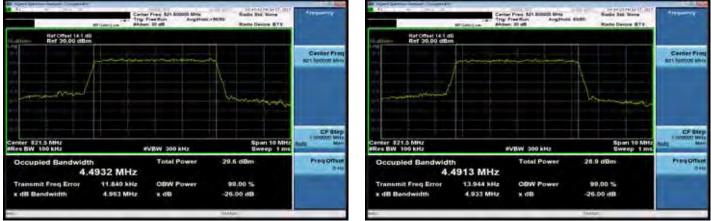
LTE Band 26 for Part 90S_ 5MHz_QPSK_25 0_LowCH26715LTE Band 26 for Part 90S_5MHz_16QAM_25 0_LowCH26715



LTE Band 26 for Part 90S_ 5MHz_QPSK_25 0_ MidCH26740LTE Band 26 for Part 90S_5MHz_16QAM_25 0_ MidCH26740



LTE Band 26 for Part 90S 5MHz_QPSK_25 0_ HighCH26765 TE Band 26 for Part 90S_5MHz_16QAM_25 0_HighCH26765



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LTE Band 26 for Part 90S_10MHz_QPSK_50 0_ MidCH26740



Band 26 for Part 90S_10MHz_16QAM_50 0_MidCH26740

Center Freq 1.913500000 GH		rive Burn Angibiaks n 30 dB	Rate Dense ETS	
Ref 30.00 dBm				
			1	Center Pres
m			harmon	
+0 +4 +				CP Site
Res BW 62 kHz		VBW 180 kHz	Span 6 MHz Dwkep 1,533 ms	Anna Maria
Occupied Bandwidth 2.69	67 MHz	Total Power	30,1 dBm	Preg Officer
Transmit Freq Error x dB Bandwidth	2.368 KHz	OBW Power x dB	99.00 %	

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Band30 5MHz_QPSK 25 0_LowCH27685-2307.5



Band30 5MHz_16-QAM 25 0_LowCH27685-2307.5



Band30 5MHz_QPSK 25 0_MidCH27710-2310



Band30 5MHz_QPSK 25 0_HighCH27735-2312.5



Band30 5MHz_16-QAM 25 0_MidCH27710-2310



_HighCH27735-2312.5 Band30 5MHz 16-QAM 25 0

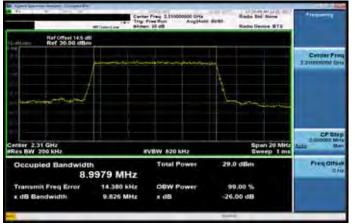


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Band30 10MHz_QPSK 50 0_MidCH27710-2310



Band30 10MHz_16-QAM 50 0_MidCH27710-2310

Ref Other 145 dl Centrer Freu Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz Span 20 MHz Image: Sector 2.31 GHz State 200 KHz State 200 KHz Image: Sector 2.31 GHz State 200 KHz State 200 KHz Image: Sector 2.31 GHz State 200 KHz State 200 KHz Image: Sector 2.31 GHz State 200 KHz State 200 KHz Image: Sector 2.31 GHz State 200 KHz State 200 KHz Image: Sector 2.31 GHz <th>4</th> <th>100 00</th> <th>ner Freg 1.310000000 GHz g Free Sun Avgittate ner 20 eff</th> <th>Rada Del Bara</th> <th>-16.0-16</th>	4	100 00	ner Freg 1.310000000 GHz g Free Sun Avgittate ner 20 eff	Rada Del Bara	-16.0-16
CP Beep CP CP CP CP C	Ref Offset 14.5 db				
Lenker 2.31 GHz Span 78 MHz Span 78 MHz Span 78 MHz Span 78 MHz Sweep 1 mb Sw	-	~	- Sector and a Market		Centrier Freq 3 antenderbel Gris
8,9631 MHz Transmit Freq Error 22,592 kHz OØW Power 99.00 %			#VBW 620 kHz	Span 20 Sweep 1	Auto Mary
			Total Power	28.0 dBm	Preg Office

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Band41 5MHz_QPSK_25 0_ LowCH39675



Band41 5MHz_16-QAM_25 0_ LowCH39675



Band41 5MHz_QPSK_25 0_ MidCH40620



Band41 5MHz_QPSK_25 0_ HighCH41565



Band41 5MHz_16-QAM_25 0_ MidCH40620



Ref 35.00 differ Gamlar Pa es BW 100 kHz Span 10 M Sweep 11 27.5 60 4.5064 MHz 8.005 kHz OBW P 99.00 % 4.968 MH x dB 26.00 dB

Band41 5MHz_16-QAM_25 0_ HighCH41565

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Band41 10MHz_QPSK_50 0_LowCH39700



Band41 10MHz_16-QAM_50 0_ LowCH39700



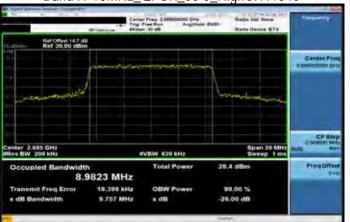
Band41 10MHz_ QPSK_50 0_ MidCH40620



Band41 10MHz_16-QAM_50 0_MidCH40620



Band41 10MHz_QPSK_50 0_HighCH41540



Band41 10MHz_16-QAM_50 0_HighCH415404



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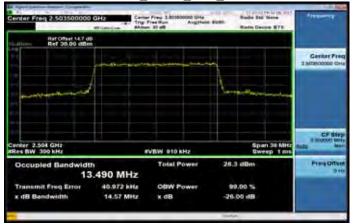
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Band41 15MHz_QPSK_75 0_LowCH39725

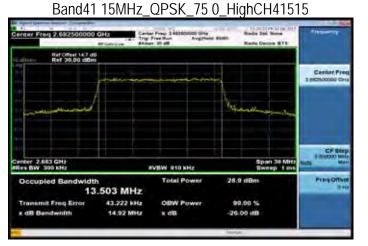


Band41 15MHz_16QAM_75 0_LowCH39725



Band41 15MHz_QPSK_75 0_MidCH40620





Band41 15MHz_16QAM_75 0_MidCH40620



Ref 36.00 differ Canter Pre Span 30 M Ewrep 11 2.683 GH WV B10 kH; 27.7 68

OBW P

x dB

Band41 15MHz_16QAM_75 0_HighCH41515

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13.497 MHz 30.213 kHz

14.58 MH

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f (886-2) 2298-0488

www.tw.sgs.com

99.00 %

26.00 dB



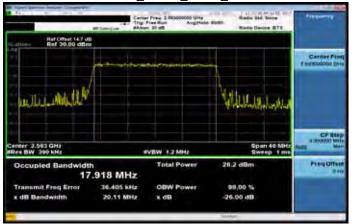
Band41 20MHz_QPSK_100 0_LowCH39750



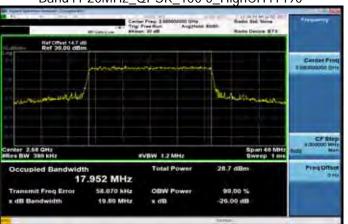
Band41 20MHz_16QAM_100 0_LowCH39750



Band41 20MHz_QPSK_100 0_MidCH40620



Band41 20MHz_QPSK_100 0_HighCH41490



Band41 20MHz_16QAM_100 0_MidCH40620



Ref 35.00 differ Canter Fr nter 2.68 GHz Span 46 M Sweep 1 s W 1.2 M 27.9 (0 17.926 MHz 49.711 HHz OBW P 99.00 % 19.50 MH x dB 26.00 dB

Band41 20MHz_16QAM_100 0_HighCH41490

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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

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

FCC §27.53(c)

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

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

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

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

FCC §27.53(c) (5) & FCC §27.53(g)

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

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FCC §27.53(h) (3)

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

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less 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.

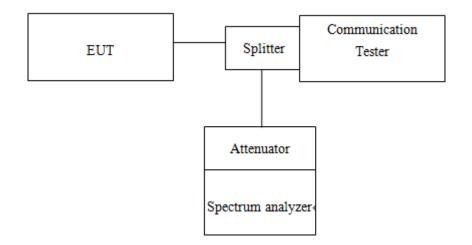
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9.2. Test SET-UP



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.
- 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

Conduc	Conducted Emission (measured at antenna port) Test Site EQUIPMENT MFR MODEL SERIAL LAST CAL DUE.							
EQUIPMENT	MFR	MODEL	SERIAL	SERIAL LAST				
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018			
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018			
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017			
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018			
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017			
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017			
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017			
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018			

9.5. Measurement Result:

Refer to next pages.

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

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Band Edge_WCDMA_B2_LowCH9262-1852.4

Band Edge_HSDPA_B2_HighCH9538-1907.6



Band Edge_WCDMA_B2_HighCH9538-1907.6

Band Edge_HSUPA_B2_LowCH9262-1852.4



Band Edge_HSDPA_B2_LowCH9262-1852.4

Band Edge_HSUPA_B2_HighCH9538-1907.6

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400 400 600	Stop Fre 1,850500000 GH	400 900	Stop Free 1,910500000 GH
Start 1.8495000 GHz Stop 1.8505000 GHz #Res BW 47 kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) www.wode two.sci. x y Punction Punction	CF Ste 100.000 kH Auto Ma	Start 1.9095000 GHz Stop 1.9105000 GHz #Res BW 47 kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) Best BDW 57 kHz 5 Pactors Figure 1.000 ms (1001 pts)	CF Step 100 000 kH Auto Mar
1 N 1 F 1.859 000 GHz -28.31 dBm	Freq Offse 0 H	N 1 f 1,910 000 GHz -329,16 dBm	Freq Offset 0 Hz
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Band Edge_WCDMA_B5_LowCH4132-826.4

Band Edge_HSDPA_B5_HighCH4233-846.6



Band Edge_WCDMA_B5_HighCH4233-846.6

Band Edge_HSUPA_B5_LowCH4132-826.4



Band Edge_HSDPA_B5_LowCH4132-826.4

Band Edge_HSUPA_B5_HighCH4233-846.6

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Center Freq 824.0000000 MHz Trig: Pree Run Brok: Wiles Trig: Pree Run Brok: Wiles Trig: Pree Run Arter: So dB	Frequency	Center Freq 849,000000 MHz Hoc: Wide I Tig: Free Run #Gaintor 30 dB	Frequency
Ref Offset 14.1 dB Mkr1 824.000 MHz 10 dBidly Ref 30.00 dBm -29.36 dBm		Ref Offset 14.1 dB Mkr1 849.000 MHz 10 dBrain Ref 30.00 dBm -28.94 dBm	Auto Tune
	Center Fre 824,000000 MF		Center Freq 849.000000 MHz
100	Start Fre 823.500000 MH	1 20 20	Start Freq 848.500000 MHz
	Stop Fre 824,500000 MH	01- 020- 020- 020-	Stop Freq 849,500000 MHz
Start 823.5000 MHz Stop 824.5000 MHz #Res BW 47 kHz #VBW 150 kHz Sweep 1.000 mHz (100 Hz	Z CF Ste 100.000 kF Auto Ma	MAR MODE TRC SCL X. Y PUNCTION ADTH FUNCTION VALUE	CF Step 100.000 kHz Auto Man
1 N 1 f 824.000 MHz -29,36 dBm 3 4 5 5	Freq Offse 0 H	1 N 1 F 849,000 MHz -28.94 dBm 2 3 -	Freq Offset 0 Hz
NSG STATUE		INFO STATUE	

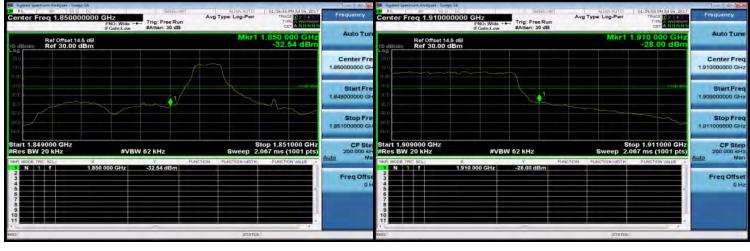
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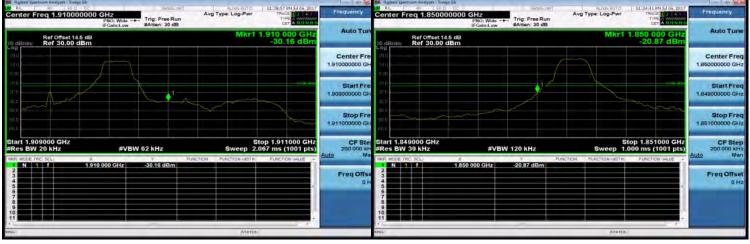
Band Edge_Band2 1.4MHz_QPSK 1 0_LowCH18607-1850.7

Band Edge_Band2 1.4MHz_QPSK 6 0_HighCH19193-1909.3



Band Edge_Band2 1.4MHz_QPSK 1 5_HighCH19193-1909.3

Band Edge_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5



Band Edge_Band2 1.4MHz_QPSK 6 0_LowCH18607-1850.7

Band Edge_Band2 3MHz_QPSK 1 14_HighCH19185-1908.5

🗰 Agreen Spectnum Analyzes Sneps Sk	10 0 0	St Agtent Spectrum Analyzer Snept SA	10 40 00
Rice Freq 1.850000000 CFLz Auto +++ Trig: Free Run Grups Log-Pwr Trace Run Grups Context Free Run Grups Context Fr	Frequency	RL se 1903 DC SERVELINI ALIGN AUTO 0127264154 06,2017 Center Freq 1.910000000 GHiz MOV Wede →→↑ Trig: Free Run Krank terms Krank ter	Frequency
10 dB/dity Ref 30.00 dBm -27.24 dBm -27.24 dBm	Auto Tun	Ref Offset 14.5 dB Mkr1 1.910 000 GHz 10 dB/div. Ref 30.00 dBm -20.06 dBm	Auto Tune
	Center Fre 1.85000000 GH		Center Freq 1.91000000 GHz
100 200 200 200 200 200 200 200 200 200	Start Fre 1.849000000 GH		Start Freq 1.909000000 GHz
	Stop Fre 1,85100000 GH		Stop Fred 1.911000000 GHz
MR/S MODE TRC SCL X Y FUNCTION FUNCTION VALUE +	CF Ste 200.000 kH Auto Ma	#Res BW 39 kHz #VBW 120 kHz Sweep 1.000 ms (1001 pts) Imme wode the set. x y Function Funct	CF Step 200.000 kHz uto Mar
1 N 1 f 1 850 000 GHz -27.24 dBm	Freq Offse	N 1 f 1,910,000 GHz -20,06 dBm	Freq Offset 0 Hz
ADG STATUS		r Ngi status	

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Band Edge_Band2 3MHz_QPSK 15 0_LowCH18615-1851.5

Band Edge_Band2 5MHz_QPSK 1 24_HighCH19175-1907.5



Band Edge_Band2 3MHz_QPSK 15 0_HighCH19185-1908.5

Band Edge_Band2 5MHz_QPSK 25 0_LowCH18625-1852.5



Band Edge_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5

Band Edge_Band2 5MHz_QPSK 25 0_HighCH19175-1907.5

Agten Spectnum Analyzer i Swept Sk		🗱 Agtern Spectrum Analyzer - Snepr Sk	0
RL #100 ID Ence.inf Auton M/IC 111222000 enter Freq 1.850000000 GHz PMO Mide → Trig: Free Run Avg Type: Log-Pwr Trace Type: Log-Pwr Trace Type: Log-Pwr If Galaxie or Free Run Trig: Free Run Avg Type: Log-Pwr Trace Type: Log-Pwr Trace Type: Log-Pwr	Frequency	Model Auge Multicity Auge Multicity Trace Page Auge Multicity Auge Multicity	Frequency
Ref Offset 14.5 dB Mkr1 1.850 000 GH -24.20 dBr -24.20 dBr	Auto Tun	Ref Offset 14.5 dB Mkr1 1.910 000 GHz 10 dBrdiv Ref 30.00 dBm -30.41 dBm	Auto Tune
	Center Fre 1.850000000 GH		Center Free 1.91000000 GH
	Start Fre 1.849000000 GH	200	Start Fred 1.909000000 GH
	Stop Fre 1,851000000 GH	40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stop Free 1,911000000 GH
tart 1.849000 GHz Stop 1.851000 GH Res BW 51 kHz #VBW 150 kHz Sweep 1.000 ms (1001 pt w MODE Tric Stul x y Punctioni Hain-Toward - Juncton wate	CF Ste 200,000 kH Auto Ma	MKK MODE TRC SCL X Y FUNCTION MUTTH FUNCTION VALUE	CF Stej 200.000 kH Auto Ma
1 N 1 f 1.850 000 GHz -24.20 dBm	Freq Offse D H	1 N 1 f 1.910 000 GHz30.41 dBm	Freq Offse 0 Ho
	+	0 7 8 9 10 11 11	
a status		NDG STATUS	

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Band Edge_Band2 10MHz_QPSK 1 0_LowCH18650-1855

Band Edge_Band2 10MHz_QPSK 50 0_HighCH19150-1905



Band Edge_Band2 10MHz_QPSK 1 49_HighCH19150-1905

Band Edge_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5



Band Edge_Band2 10MHz_QPSK 50 0_LowCH18650-1855

Band Edge_Band2 15MHz_QPSK 1 74_HighCH19125-1902.5

Center Freq 1.850000000 GHz Avg Type: Log-Pwr Trig: Free Run	TOTAL ANNAULT	Bit Same Spectrum Spectrum Support Same State Same State	Frequency
	Auto Turo	Ref Offset 14.5 dB Mkr1 1.910 000 GHz 10 dB/div Ref 30.00 dBm -29.26 dBm	Auto Tune
	Center Fre 1.850000000 GH		Center Freq 1.91000000 GHz
	Start Fre 1.849000000 GH		Start Freq 1.90900000 GHz
400 çaŭ	Stop Fre 1,851000000 GH		Stop Freq 1.91100000 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 1.000 m	851000 GHz s (1001 pts) CTONVALUE + Auto Ma	Start 1.909000 GHz Stop 1.911000 GHz #Res BW 200 kHz #VBW 620 kHz Sweep 1.000 ms (1001 pts) Imm mode the set. x y Function Function Function	CF Step 200.000 kHz Auto Man
1 N 1 f 1.850 000 GHz -29.51 dBm 3 4	Freq Offse 0 H	1 N 1 f 1.910 000 GHz -29.26 dBm 3 4	Freq Offset 0 Hz
11 visoi stratue	*	ti status	

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Band Edge_Band2 15MHz_QPSK 75 0_LowCH18675-1857.5

Band Edge_Band2 20MHz_QPSK 1 99_HighCH19100-1900



Band Edge_Band2 15MHz_QPSK 75 0_HighCH19125-1902.5

Band Edge_Band2 20MHz_QPSK 100 0_LowCH18700-1860



Band Edge_Band2 20MHz_QPSK 1 0_LowCH18700-1860

Band Edge_Band2 20MHz_QPSK 100 0_HighCH19100-1900

Agreen Spectrum Analyzer Sweet SA RL & Ship Inc		Agreen Spectrum Analyzet Swept Sk Set State State Account of the State State Account of the State State Account of the State State	10 00
ALL	Frequency	M Set Set Aug Avg Aug Avg Aug Avg Aug Avg Avg Treach PMC: Fast —	Frequency
Ref Offset 14.5 dB Mkr1 1.850 000 GHz o dBudy Ref 30.00 dBm -32.56 dBm	Auto Tun	Ref Office 14.5 dB 10 dB/div Ref 30.00 dBm -49.83 dBm	Auto Tuni
	Center Fre 1.850000000 GH		Center Free 1.91000000 GH
mo	Start Fre 1.849000000 GH	100	Start Fred
to a manufacture of a m	Stop Fre 1.851000000 GH		Stop Fre 1,911000000 GH
RFS MODE TPC SCL X Y PUNCTION WIDTH FUNCTION VALUE +		MRR MODE TRC SCL X Y FUNCTION FUNCTION VALUE +	CF Stej 200.000 kH uto Ma
1 N 1 f 1.850 000 GHz -32.56 dBm	Freq Offse 0 H	1 N 1 f 1.910 000 GHz -49,83 dBm 2 3 4 4 5 5	Freq Offse 0 H
		0 7 8 9 9 10	
status		esci status	_

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Band Edge_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7

Band Edge_Band4 1.4MHz_QPSK 6 0_HighCH20393-1754.3



Band Edge_Band4 1.4MHz_QPSK 1 5_HighCH20393-1754.3

Band Edge_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5



Band Edge_Band4 1.4MHz_QPSK 6 0_LowCH19957-1710.7

Band Edge_Band4 3MHz_QPSK 1 14_HighCH20385-1753.5



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Band Edge_Band4 3MHz_QPSK 15 0_LowCH19965-1711.5

Band Edge_Band4 5MHz_QPSK 1 24_HighCH20375-1752.5



Band Edge_Band4 3MHz_QPSK 15 0_HighCH20385-1753.5

Band Edge_Band4 5MHz_QPSK 25 0_LowCH19975-1712.5



Band Edge_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5

Band Edge_Band4 5MHz_QPSK 25 0_HighCH20375-1752.5

Ref Offset 116 dB MKT 1,25 UU GH2 Center Fre 1,000000 GH Center Fre 1,000000 GH Center Fre 1,000000 GH Start 1,709000 GH2 4VBW 150 kHz Storp Fre Storp Fre 1,7090000 GH2 4VBW 150 kHz Storp Fre Storp Fre 1,709000 GH2 4VBW 150 kHz Storp Fre Storp Fre 1,7100000 GH2 4VBW 150 kHz Storp Fre 1,750000 GHz 1,7100000 GH2 4VBW 150 kHz Storp Fre 1,750000 GHz 1,7100000 GH2 4VBW 150 kHz Storp Fre 1,750000 GHz 1,7100000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GHZ 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GHZ 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GHZ 4VBW 150 kHz <tr< th=""><th>Agtern Spectrum Analyzes Snepr SA</th><th></th><th>📔 🚽 🕼 🎉 🌉 Agitem Spectrum Analyze</th><th></th><th></th><th>10 40 100</th></tr<>	Agtern Spectrum Analyzes Snepr SA		📔 🚽 🕼 🎉 🌉 Agitem Spectrum Analyze			10 40 100
Ref Offset 116 dB MKT 1,25 UU GH2 Center Fre 1,000000 GH Center Fre 1,000000 GH Center Fre 1,000000 GH Start 1,709000 GH2 4VBW 150 kHz Storp Fre Storp Fre 1,7090000 GH2 4VBW 150 kHz Storp Fre Storp Fre 1,709000 GH2 4VBW 150 kHz Storp Fre Storp Fre 1,7100000 GH2 4VBW 150 kHz Storp Fre 1,750000 GHz 1,7100000 GH2 4VBW 150 kHz Storp Fre 1,750000 GHz 1,7100000 GH2 4VBW 150 kHz Storp Fre 1,750000 GHz 1,7100000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GHZ 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GHZ 4VBW 150 kHz 1,710000 GH2 4VBW 150 kHz 1,710000 GHZ 4VBW 150 kHz <tr< th=""><th>enter Freq 1.710000000 GHz Avg Type: Log-Pwr</th><th>TRACE 2 2 4 FING</th><th>Genter Freg 1.7</th><th>55000000 GHz PNO: Wide +++ Trig: Free Ri</th><th>Avg Type: Log-Pwr TRACE 214 1</th><th></th></tr<>	enter Freq 1.710000000 GHz Avg Type: Log-Pwr	TRACE 2 2 4 FING	Genter Freg 1.7	55000000 GHz PNO: Wide +++ Trig: Free Ri	Avg Type: Log-Pwr TRACE 214 1	
17.1000000 GHz 3 C C Stop Fre 3 C C Stop Fre 17.100000 GHz 4 C C Stop Fre 17.10000 GHz 10.1000 GHz 10.10		1710 000 GHZ	Ref Off:	set 14.5 dB).00 dBm	Mkr1 1.755 000 GHz -29.14 dBm	Auto Tune
Start Freq Start Pre- Start T-75 Start						Center Freq 1.755000000 GHz
Start 1.709000 GHz #VBW 150 kHz Stop 1.711000 GHz #VBW 150 kHz Stop 1.711000 GHz #VBW 150 kHz Stop 1.756000 GHz #VBW 150 kHz Stop 1.		S				Start Freq 1.754000000 GHz
#Res BW 51 kHz #VEW 150 kHz Sweep 1.000 ms (1001 pts) 200 000 st #Res BW 51 kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) 200 000 st 100 1						Stop Fred 1 756000000 GHz
1 N 1 f 1.710.000 GHz 24.18 dBm Freq Office	Res BW 51 kHz #VBW 150 kHz Sweep 1.0	00 ms (1001 pts) 20	200.000 kH #Res BW 51 kHz	#VBW 150 kHz	Sweep 1.000 ms (1001 pts)	CF Step 200.000 kHo Auto Mar
			Freq Offse			Freq Offset 0 Hz
			6 7 8 9 10			
	574TUS.		495		STATUS	

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Band Edge_Band4 10MHz_QPSK 1 0_LowCH20000-1715

Band Edge_Band4 10MHz_QPSK 50 0_HighCH20350-1750



Band Edge_Band4 10MHz_QPSK 1 49_HighCH20350-1750

1 7550 a 1.71 Trig: Free Run Auto Te Auto Tu Ref Offset 14.5 dB Ref 30.00 dBm Ref Offset 14.5 dB Ref 30.00 dBm Center Fr Center Fre Start Fr Start Fre 1 75 Stop Fr Stop Fre 1 75 1 711 CF Ste t 1.754000 GHz Stop 1.756000 GH CF St 200.000 1.709000 GHz Stop 1.711000 GH VBW 620 kH #VBW 300 kH: M Freq Off Freq Offse 0 1

Band Edge_Band4 10MHz_QPSK 50 0_LowCH20000-1715

Band Edge_Band4 15MHz_QPSK 1 74_HighCH20325-1747.5

Band Edge_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5



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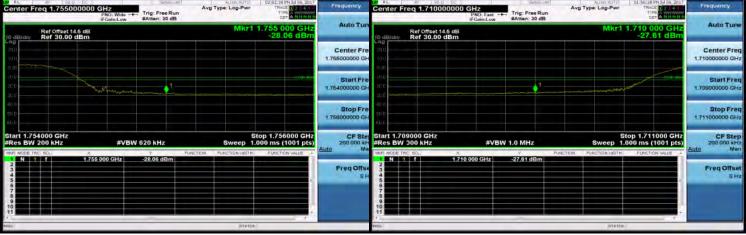
Band Edge_Band4 15MHz_QPSK 75 0_LowCH20025-1717.5

Band Edge_Band4 20MHz_QPSK 1 99_HighCH20300-1745



Band Edge_Band4 15MHz_QPSK 75 0_HighCH20325-1747.5

Band Edge_Band4 20MHz_QPSK 100 0_LowCH20050-1720



Band Edge_Band4 20MHz_QPSK 1 0_LowCH20050-1720

Band Edge_Band4 20MHz_QPSK 100 0_HighCH20300-1745



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Band Edge_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7

Band Edge_Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3



Band Edge_Band5 1.4MHz_QPSK 1 5_HighCH20643-848.3

Band Edge_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



Band Edge_Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7

Band Edge_Band5 3MHz_QPSK 1 14_HighCH20635-847.5

🚺 Agrient Spectnum Analyzes i Swept SA	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		10 41 53
Center Freq 824.000000 MHz Genter Freq 824.000000 MHz IFGol: Not Head +++ IFGol: Not Head ++++ IFGol: Not Head ++++ IFGol: Not Head ++++ IFGol: Not Head +++++ IFGol: Not Head ++++++ IFGol: Not Head ++++++ IFGol: Not Head ++++++ IFGol: Not Head +++++++ IFGol: Not Head ++++++++++++++++++++++++++++++++++++	Frequency	OF RL ST SIG C ST STOCHT ALGARDO DAG ST STOCHT ALGARDO DAG ST STOCHT ALGARDO DAG ST	Frequency
Ref Offset 14.1 dB Mkr1 824,000 MHz 10 dB/div Ref 30.00 dBm -33.98 dBm	Auto Tun	Ref Officet 14.1 dB Mkr1 849.000 MHz 10 dBrain Ref 30.00 dBm -20.66 dBm	Auto Tune
	Center Fre 824.000000 MF		Center Freq 849.000000 MHz
mi	Start Fre 823.000000 MH		Start Freq 848.000000 MHz
	Stop Fre 825,000000 MH		Stop Freq 850,000000 MHz
MRF. MODE TRC. SCL X. Y FUNCTION METHIN FUNCTION VALUE +	CF Ste 200.000 kF Auto Ma	MRR MODE TRC SCL X. Y .PUNCTION RUNCTION WEITH FUNCTION VALUE	CF Step 200.000 kHo Auto Man
1 N 1 f 824.000 MHz -33.98 dBm 2 4 5	Freq Offse 0 H	1 N 1 F 849.000 MHz -20,66 dBm	Freq Offset 0 Hz
		9 9 10	
NEGO STATUS		wsgi status	

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Band Edge_Band5 3MHz_QPSK 15 0_LowCH20415-825.5

Band Edge_Band5 5MHz_QPSK 1 24_HighCH20625-846.5

1 - 4		1.5 M 2.5 M 2.5				Analyzer Swept Sh	agien Spect	10 4 4	States and the second				Agitent Spectrum Analyzer Sr
Frequency	03.36(02 PM Jul 06, 2017 TRACE 12 2 4 TITE A VALVANT	ALIGN AUTO rg Type: Log-Pwr	un A	Trig: Free Ri #Atten: 30 d		849.000000	Center Fr	A	04.02/58 PM AI 06, 2017 TRACE 1 2 7 4 1 TOTE A SUMMER	AUGH AUTO Avg Type: Log-Pwr	Trig: Free Run #Atten: 30 dB		Center Freq 824.00
Auto Tur	1 849,000 MHz -23.34 dBm	Mkr				ef Offset 14.1 dB ef 30.00 dBm	10 dBidiy	Auto Tune	r1 824.000 MHz -29.11 dBm	Mki		14.1 dB dBm	Ref Offset
Center Fre 849.000000 MH							200 1970	Center Fred 824,000000 MH;					200 100
Start Fre 848.000000 MH				- v		/	-30'D	Start Fred 823.000000 MHs			- yol		m () 2010 2010
Stop Fre 850,000000 Mil			~~~~				40.0 \$0(0 60.0	Stop Fred 825.000000 MHz					40 0 60 0 60 0
CF Ste 200.000 kF Auto Ma	Stop 850.000 MHz .000 ms (1001 pts)	Sweep 1.0		N 150 KHz	#VBV	0 MHz KHz	Start 848. #Res BW	CF Step 200.000 kHo Auto Man	Stop 825.000 MHz 1.000 ms (1001 pts)	Sweep 1	W 120 kHz	#VB	Start 823.000 MHz Res BW 39 kHz
Freq Offse	FUNCTION VALUE	- Function (wath H	PUNCTION	-23,34 dBm	9.000 MHz		MKR MODE TR	Freq Offset 0 Hz	TUNCTION VALUE	NCTION. PUNCTION INTE	r Pu -29,11 dBm	* 824.000 MHz	NOTE THE SEL
							6 7 8 9 10 11						6 7 8 9 10 11
	1	STATUS					wag-			STATU			99

Band Edge_Band5 3MHz_QPSK 15 0_HighCH20635-847.5

Band Edge_Band5 5MHz_QPSK 25 0_LowCH20425-826.5



Band Edge_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

Band Edge_Band5 5MHz_QPSK 25 0_HighCH20625-846.5

Aggreen Speetnum Analyzer i Smept SA	10 0	🗰 Agtern Spectnum Andyzen i Swept SA	10 0 0
RL 36 50.2 Service Autor	Frequency	PNO: Wide +++ Trig: Pree Run IF CaincLow #Atten: 30 dB CET A MINIMUM	Frequency
Ref Offset 14.1 dB Mkr1 824,000 MHz Ref 30.00 dBm -26.06 dBm	Auto Tun	Ref Offset 14.1 dB Mkr1 849,000 MHz (6 dBrday Ref 30.00 dBm -29.61 dBm	Auto Tune
	Center Fre 824,000000 MH		Center Free 849.000000 MHa
200 201 201	Start Fre 823.000000 MH		Start Free 348.000000 MH:
	Stop Fre 825,000000 MH		Stop Free
Start 823.000 MHz Stop 825.000 MHz Res BW 51 kHz \$VBW 150 kHz Sweep 1.000 mkz we pote fice Scl. x y Putched Putched Putched Putched	CF Ste 200.000 kH Auto Ma	Start 848.000 MHz Stop 850.000 MHz #Res BW 51 KHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) Best MDE TO SLL X Y Patched During To the participant reporting to the participant reporter reporting to the participant reporter reportere reportere reparticipant reporter reportere reparticipant repor	CF Ster 200.000 kH
N 1 F 624.000 MHz -26.06 dBm	Freq Offse 0 H	1 N 1 f 849.000 MHz -29.61 dBm	Freq Offse 0 Ho
		9 9 10 11	
9G STATUS		MSG STATUE	_

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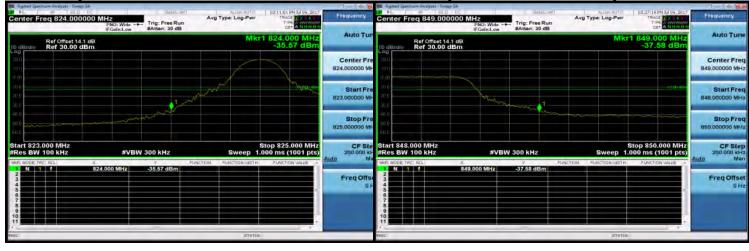
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.



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Band Edge_Band5 10MHz_QPSK 1 0_LowCH20450-829

Band Edge_Band5 10MHz_QPSK 50 0_HighCH20600-844



Band Edge_Band5 10MHz_QPSK 1 49_HighCH20600-844

Band Edge_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5



Band Edge_Band5 10MHz_QPSK 50 0_LowCH20450-829

Band Edge_Band7 5MHz_QPSK 1 24_HighCH21425-2567.5



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