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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Applicant: HP Inc.

1501 Page Mill Road Palo Alto, CA 94304

Product Name: Notebook PC

Brand Name: HP

Model No.: TPN-Q212

Model Difference: N/A

FCC ID: B94TNQ212FWPH Report Number: E2/2018/B0047

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

Issue Date: Dec. 17, 2018

Date of Test: Nov. 13, 2018 ~ Dec. 07, 2018

Date of EUT Received: Nov. 13, 2018

We hereby certify that:

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

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

Tested By:

Vito Pei / Sr. Engineer

Approved By:

Jazz Huang / Asst. Supervisor





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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/B0047	Rev.00	Initial creation of document	All	Dec. 17, 2018	Stefanie Yu

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

ochicial.	,					
Product Name:	Notebook PC					
Brand Name:	HP					
Model No.:	TPN-Q212					
Model Difference:	N/A					
Hardware Version:	N/A					
Software Version:	N/A					
Power Supply:	15.4Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter Battery: Model No.: HSTNN-IB8R, Supplier: Chongqing C-Tech Technology Co., Ltd. Adapter: Model No.: TPN-TA02, Supplier: Yada Electronics Co., Ltd					
IMEI:	867921030073150					

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

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

LTE Band	BW	Operation Frequency	LTE Band	BW	Operation Frequency
LTL Danu	(MHz)	1 ' ' 1 1 5 5 1 1 5 5 1 1		(MHz)	(MHz)
	1.4	1850.7 - 1909.3	14	5	790.5 - 795.5
	3	1851.5 - 1908.5	14	10	793
2	5	1852.5 - 1907.5	17	5	706.5 - 713.5
	10	1855.0 - 1905.0] ''	10	709.0 - 711.0
	15	1857.5 - 1902.5		1.4	1850.7 - 1914.3
	20	1860.0 - 1900.0		3	1851.5 - 1913.5
	1.4	1710.7 - 1754.3	25	5	1852.5 - 1912.5
	3	1711.5 - 1753.5	25	10	1855.0 - 1910.0
	5	1712.5 - 1752.5		15	1857.5 - 1907.5
4	10	1715.0 - 1780.0		20	1860.0 - 1905.0
	15	1717.5 - 1747.5	26	1.4	824.7 - 848.3
	20	1720.0 - 1745.0		3	825.5 - 847.5
	1.4	824.7 - 848.3		5	826.5 - 846.5
5	3	825.5 - 847.5		10	829.0 - 844.0
5	5	826.5 - 846.5		15	831.5 - 841.5
	10	829.0 - 844.0		1.4	814.7 - 823.3
	5	2502.5 - 2567.5	26 Part90	3	815.5 - 822.5
7	10	2505.0 - 2565.0	26 Part90	5	816.5 - 821.5
'	15	2507.5 - 2562.5		10	819.0
	20	2510.0 - 2560.0	- 30	5	2307.5 - 2312.5
	1.4	699.7 - 715.3	30	10	2310.0
12	3	700.5 - 714.5		5	2572.5 - 2617.5
12	5	701.5 - 713.5	20	10	2575.0 - 2615.0
	10	704.0 - 711.0	- 38	15	2577.5 - 2612.5
13	5	779.5 - 784.5		20	2580.0 - 2610.0
	10	782			

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LTE Band	BW (MHz)	Operation Frequency (MHz)		LTE Band	BW (MHz)	•	n Fr MHz	equency :)	
	5	2498.5	-	2687.5		1.4	1710.7	-	1779.3
44	10	2501.0	-	2685.0	66	3	1711.5	-	1778.5
41	15	2503.5	-	2682.5		5	1712.5	-	1777.5
	20	2506.0	-	2680.0		10	1715.0	-	1775.0
			-			15	1717.5	-	1772.5
			-			20	1720.0	-	1770.0

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Antenna Designation

	Type		Antenna	Modulation	Frequenc	<i>-</i> y	Peak Antenna
1		Aux	Part No.		(MHz)	1007.	Gain (dBi)
				WCDMA / HSPA Band II		1907.6	-5.76
1				WCDMA / HSPA Band IV		1752.6	-5.78
1				WCDMA / HSPA Band V		846.6	-4.97
1			<u>.</u>	LTE Band 2	1850 ~	1910	-5.33
1				LTE Band 4	1710 ~	1755	-5.34
1				LTE Band 5	824 ~	849	-4.74
1				LTE Band 7	2503 ~	2560	-3.15
				LTE Band 12	699 ~	716	-5.86
			DQ60AUP6Y00	LTE Band 13	777 ~	787	-5.04
	PIFA	Main	(AUP6Y-400000)	LTE Band 14	788 ~	798	N/A
			(A01 01-400000)	LTE Band 17	704 ~	716	-5.86
				LTE Band 25	1850 ~	1915	-5.33
				LTE Band 26	824 ~	849	-4.74
				LTE Band 26	814 ~	824	N/A
1				(Part 90S)	014 ~	024	IV/A
1				LTE Band 30	2305 ~	2315	-3.39
1				LTE Band 38	2570 ~	2620	-3.93
1				LTE Band 41	2496 ~	2690	-3.15
ACON				LTE Band 66	1710 ~	1780	-5.34
ACON				WCDMA / HSPA Band II	1852.4 ~	1907.6	-6.4
				WCDMA / HSPA Band IV	1712.4 ~	1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~	846.6	N/A
				LTE Band 2	1850 ~	1910	-6.4
				LTE Band 4	1710 ~	1755	N/A
				LTE Band 5	824 ~	849	N/A
				LTE Band 7	2503	2560	N/A
				LTE Band 12	699 ~	716	N/A
			DO (OALID () (OO	LTE Band 13	777 ~	787	-7.23
	PIFA	Aux	DQ60AUP6Y00	LTE Band 14	788	798	-7.23
			(AUP6Y-400000)	LTE Band 17	704 ~	716	N/A
				LTE Band 25	1850 ~	1915	-6.4
				LTE Band 26	824 ~	849	N/A
				LTE Band 26			
				(Part 90S)	814 ~	824	-6.54
				LTE Band 30	2305 ~	2315	N/A
				LTE Band 38	2570 ~	2620	-6.79
				LTE Band 41	2496 ~	2690	-7.64
				LTE Band 66	1710 ~	1780	N/A

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

	ERP / EIR	P (dBm)	W	Type of Emission
WCDMA Band II	18.23	EIRP	0.067	4M09F9W
HSDPA Band II	18.22	EIRP	0.066	4M09F9W
HSUPA Band II	17.53	EIRP	0.057	4M09F9W
WCDMA Band IV	18.06	EIRP	0.064	4M07F9W
HSDPA Band IV	18.05	EIRP	0.064	4M08F9W
HSUPA Band IV	17.50	EIRP	0.056	4M08F9W
WCDMA Band V	19.24	ERP	0.084	4M09F9W
HSDPA Band V	19.20	ERP	0.083	4M10F9W
HSUPA Band V	18.03	ERP	0.064	4M10F9W

LTE Band	BW	Modulation	-	ERP / EIRP (dBm)		Type of Emission
		QPSK	18.00	ÉIRP	0.063	1M11G7D
2	1.4	16QAM	17.08	EIRP	0.051	1M12D7W
		64QAM	17.55	EIRP	0.057	1M11D7W
		QPSK	18.02	EIRP	0.063	2M73G7D
2	3	16QAM	17.42	EIRP	0.055	2M73D7W
		64QAM	17.38	EIRP	0.055	2M73D7W
		QPSK	18.04	EIRP	0.064	4M55G7D
2	5	16QAM	17.52	EIRP	0.056	4M53D7W
		64QAM	17.54	EIRP	0.057	4M63D7W
		QPSK	18.22	EIRP	0.066	9M10G7D
2	10	16QAM	17.38	EIRP	0.055	9M13D7W
		64QAM	17.40	EIRP	0.055	9M32D7W
		QPSK	18.05	EIRP	0.064	13M6G7D
2	15	16QAM	17.63	EIRP	0.058	13M6D7W
		64QAM	17.52	EIRP	0.056	13M6D7W
		QPSK	18.23	EIRP	0.067	18M1G7D
2	20	16QAM	17.59	EIRP	0.057	18M1D7W
		64QAM	17.46	EIRP	0.056	18M0D7W

LTE Band	BW	Modulation	ERP / (dB		(W)	Type of Emission
		QPSK	17.81	EIRP	0.060	1M11G7D
4	1.4	16QAM	17.34	EIRP	0.054	1M11D7W
		64QAM	17.47	EIRP	0.056	1M11D7W
		QPSK	17.76	EIRP	0.060	2M73G7D
4	3	16QAM	17.49	EIRP	0.056	2M72D7W
		64QAM	17.46	EIRP	0.056	2M72D7W
		QPSK	17.93	EIRP	0.062	4M53G7D
4	5	16QAM	17.32	EIRP	0.054	4M52D7W
		64QAM	17.52	EIRP	0.056	4M52D7W
		QPSK	18.08	EIRP	0.064	9M08G7D
4	10	16QAM	17.46	EIRP	0.056	9M09D7W
		64QAM	17.50	EIRP	0.056	9M09D7W
		QPSK	18.00	EIRP	0.063	13M6G7D
4	15	16QAM	17.51	EIRP	0.056	13M6D7W
		64QAM	17.56	EIRP	0.057	13M6D7W
		QPSK	18.03	EIRP	0.064	18M1G7D
4	20	16QAM	17.57	EIRP	0.057	18M1D7W
		64QAM	17.43	EIRP	0.055	18M1D7W

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LTE			ERP /	EIRP	6	Type of		
Band	BW	Modulation	(dB		(W)	Emission		
		QPSK	18.51	ERP	0.071	1M13G7D		
5	1.4	16QAM	18.00	ERP	0.063	1M15D7W		
		64QAM	17.89	ERP	0.062	1M11D7W		
		QPSK	18.44	ERP	0.070	2M74G7D		
5	3	16QAM	17.76	ERP	0.060	2M73D7W		
		64QAM	17.88	ERP	0.061	2M72D7W		
		QPSK	18.59	ERP	0.072	4M54G7D		
5	5	16QAM	18.01	ERP	0.063	4M55D7W		
		64QAM	17.86	ERP	0.061	4M54D7W		
		QPSK	18.71	ERP	0.074	9M19G7D		
5	10	16QAM	17.92	ERP	0.062	9M26D7W		
		64QAM	17.87	ERP	0.061	9M15D7W		
LTE	BW	Modulation	ERP /		(W)	Type of		
Band		ODCI	(dB			Emission		
7	5	QPSK 1/OAM	20.20	EIRP	0.105	4M55G7D		
7	Э	16QAM	19.83	EIRP	0.096	4M54D7W		
		64QAM	19.50	EIRP	0.089	4M53D7W		
7	10	QPSK 1/OAM	20.44	EIRP	0.111	9M11G7D		
/	10	16QAM	19.73	EIRP	0.094	9M10D7W		
		64QAM	19.42	EIRP	0.087	9M14D7W		
7	15	QPSK 1/OAM	20.30	EIRP	0.107	13M6G7D		
/	15	15	15	16QAM	19.81	EIRP	0.096	13M6D7W
		64QAM	19.46	EIRP	0.088	13M6D7W		
7	20	QPSK	20.48	EIRP	0.112	18M1G7D		
7	20	16QAM	19.52	EIRP	0.090	18M0D7W		
		64QAM	19.36	EIRP	0.086	18M1D7W		
LTE	DW	Madulation	ERP / EIRP		(14/)	Type of		
Band	BW	Modulation	(dB	m)	(W)	Emission		
		QPSK	17.33	ERP	0.054	1M11G7D		
12	1.4	16QAM	17.04	ERP	0.051	1M12D7W		
		64QAM	17.03	ERP	0.050	1M11D7W		
		QPSK	17.30	ERP	0.054	2M73G7D		
12	3	16QAM	16.48	ERP	0.044	2M73D7W		
		64QAM	16.98	ERP	0.050	2M72D7W		
		QPSK	17.76	ERP	0.060	4M56G7D		
12	5	16QAM	16.50	ERP	0.045	4M53D7W		
		64QAM	16.88	ERP	0.049	4M52D7W		
		QPSK	17.77	ERP	0.060	9M13G7D		
12	10	16QAM	16.88	ERP	0.049	9M16D7W		
		64QAM	16.93	ERP	0.049	9M12D7W		

LTE	BW	Modulation	ERP / EIRP		(W)	Type of
Band	DVV	IVIOUUIALIOIT	(dB	m)	(۷۷)	Emission
		QPSK	18.29	ERP	0.067	4M53G7D
13	5	16QAM	17.71	ERP	0.059	4M53D7W
		64QAM	17.69	ERP	0.059	4M55D7W
		QPSK	18.35	ERP	0.068	9M01G7D
13	10	16QAM	17.55	ERP	0.057	9M01D7W
		64QAM	17.40	ERP	0.055	9M04D7W
LTE Band	BW	Modulation		ERP / EIRP (dBm)		Type of Emission
Dana		QPSK	18.49	ERP	0.071	4M55G7D
14	5	16QAM	17.88	ERP	0.061	4M54D7W
		64QAM	17.88	ERP	0.061	4M52D7W
		QPSK	18.68	ERP	0.074	9M03G7D
14	10	16QAM	17.85	ERP	0.061	9M06D7W
		64QAM	17.69	ERP	0.059	9M07D7W
LTE Band	BW	Modulation	ERP / (dB		(W)	Type of Emission
		QPSK	17.59	ERP	0.057	4M53G7D
17	5	16QAM	16.75	ERP	0.047	4M53D7W
		64QAM	16.69	ERP	0.047	4M52D7W
		QPSK	17.40	ERP	0.055	9M03G7D
17	10	16QAM	16.72	ERP	0.047	9M07D7W
		64QAM	16.73	ERP	0.047	9M05D7W

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. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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LTE Band	BW	Modulation	ERP/ (dB		(W)	Type of Emission	
		QPSK	17.75	ÉIRP	0.060	1M12G7D	
25	1.4	16QAM	17.09	EIRP	0.051	1M10D7W	
		64QAM	17.13	EIRP	0.052	1M11D7W	
		QPSK	17.81	EIRP	0.060	2M74G7D	
25	3	16QAM	17.30	EIRP	0.054	2M73D7W	
		64QAM	17.08	EIRP	0.051	2M72D7W	
		QPSK	17.93	EIRP	0.062	4M53G7D	
25	5	16QAM	17.17	EIRP	0.052	4M51D7W	
		64QAM	17.12	EIRP	0.052	4M50D7W	
		QPSK	17.89	EIRP	0.062	9M09G7D	
25	10	16QAM	17.27	EIRP	0.053	9M07D7W	
		64QAM	17.14	EIRP	0.052	9M05D7W	
		QPSK	17.89	EIRP	0.062	13M6G7D	
25	15	16QAM	17.52	EIRP	0.056	13M6D7W	
		64QAM	17.24	EIRP	0.053	13M6D7W	
		QPSK	18.01	EIRP	0.063	18M1G7D	
25	20	16QAM	17.24	EIRP	0.053	18M0D7W	
			64QAM	17.16	EIRP	0.052	18M0D7W

	04QAIVI	17.10	LINE	0.052	TOIVIODTVV		
D\\/	Modulation	ERP/	EIRP	(\\/)	Type of		
DVV	iviouulatiori	(dB	m)	(۷۷)	Emission		
	QPSK	18.55	ERP	0.072	1M13G7D		
1.4	16QAM	17.88	ERP	0.061	1M13D7W		
	64QAM	17.99	ERP	0.063	1M11D7W		
	QPSK	18.53	ERP	0.071	2M74G7D		
3	16QAM	17.92	ERP	0.062	2M74D7W		
	64QAM	17.99	ERP	0.063	2M73D7W		
	QPSK	18.54	ERP	0.071	4M53G7D		
5	16QAM	17.79	ERP	0.060	4M53D7W		
	64QAM	18.14	ERP	0.065	4M52D7W		
	QPSK	18.74	ERP	0.075	9M17G7D		
10	16QAM	17.98	ERP	0.063	9M18D7W		
	64QAM	17.96	ERP	0.063	9M17D7W		
	QPSK	18.75	ERP	0.075	13M6G7D		
15	16QAM	18.15	ERP	0.065	13M6D7W		
	64QAM	18.04	ERP	0.064	13M6D7W		
	3 5 10	BW Modulation 1.4 QPSK 1.6QAM 64QAM	BW Modulation (dB 1.4 QPSK 18.55 1.6QAM 17.88 64QAM 17.99 QPSK 18.53 16QAM 17.92 64QAM 17.99 QPSK 18.54 16QAM 17.79 64QAM 17.79 64QAM 18.14 QPSK 18.74 10 QPSK 18.74 10 QPSK 18.75 15 QPSK 18.75	BW Modulation ERP / EIRP (dB m)	BW Modulation ERP / EIRP (dBm) (W) (dBm) (W) (dBm) (W) (dBm) (W) (dBm) (W) (W) (dBm) (W) (dBm) (W) (dBm) (W) (dBm) (W) (dBm) (W) (dBm) (W) (W) (dBm) (W) (dBm) (W) (W)		

Band BW Modulation (dBm) (W) Emission 26 1.4 QPSK 16.38 ERP 0.043 1M11G7D 26 1.4 16QAM 15.55 ERP 0.036 1M11D7W 26 3 QPSK 16.06 ERP 0.040 2M74G7D 26 3 16QAM 15.44 ERP 0.035 2M73D7W 26 4 16QAM 15.31 ERP 0.034 2M72D7W 26 5 16QAM 15.67 ERP 0.034 2M72D7W 26 10 16QAM 15.51 ERP 0.034 4M51D7W 26 10 16QAM 15.51 ERP 0.036 4M51D7W 26 10 16QAM 15.63 ERP 0.038 9M01D7W 26 10 16QAM 15.63 ERP 0.037 9M02D7W 27 20PSK 19.40 EIRP 0.087 4M53G7D	LTE	DW	Maralada Bara	ERP / EIRP		(141)	Type of
26 1.4 16QAM 15.55 ERP 0.036 1M11D7W 64QAM 15.47 ERP 0.035 1M11D7W 26 3 16QAM 15.44 ERP 0.035 2M73D7W 26 4 16QAM 15.31 ERP 0.034 2M72D7W 26 5 QPSK 16.48 ERP 0.044 4M54G7D 26 16QAM 15.67 ERP 0.037 4M53D7W 46QAM 15.51 ERP 0.034 4M51D7W 46QAM 15.51 ERP 0.034 4M53D7W 46QAM 15.51 ERP 0.034 4M53D7W 46QAM 15.63 ERP 0.034 4M53D7W 4M53G7D 16QAM 15.63 ERP 0.037 9M02D7W 4M53G7D 16QAM 18.93 EIRP 0.087 4M53G7D 30 4M52D7W 16QAM 18.93 EIRP 0.087 9M09G7D 30 4M64QAM 18.81 EIRP 0.087 9M07D7W 4M52D7W </td <td>Band</td> <td>BW</td> <td>Modulation</td> <td>(dB</td> <td>m)</td> <td>(W)</td> <td>Emission</td>	Band	BW	Modulation	(dB	m)	(W)	Emission
26 64QAM 15.47 ERP 0.035 1M11D7W 26 3 16QAM 15.44 ERP 0.040 2M74G7D 26 16QAM 15.44 ERP 0.035 2M73D7W 26 40QPSK 16.48 ERP 0.044 4M54G7D 26 16QAM 15.67 ERP 0.037 4M53D7W 46QAM 15.51 ERP 0.034 4M51D7W 26 10 64QAM 15.51 ERP 0.034 4M51D7W 26 16QAM 15.51 ERP 0.034 4M51D7W 26 16QAM 15.55 ERP 0.034 4M51D7W 27 16QAM 15.63 ERP 0.034 9M01D7W 30 5 QPSK 19.40 EIRP 0.087 4M53G7D 30 16QAM 18.93 EIRP 0.087 9M09G7D 30 16QAM 18.63 EIRP 0.084 4M52D7W			QPSK	16.38	ERP	0.043	1M11G7D
26 3 OPSK 16.06 ERP 0.040 2M74G7D 16QAM 15.44 ERP 0.035 2M73D7W 64QAM 15.31 ERP 0.034 2M72D7W 2M72D7W 16QAM 15.31 ERP 0.034 2M72D7W 4M54G7D 16QAM 15.67 ERP 0.037 4M53D7W 64QAM 15.51 ERP 0.036 4M51D7W 64QAM 15.51 ERP 0.036 4M51D7W 64QAM 15.63 ERP 0.034 9M03G7D 16QAM 15.63 ERP 0.038 9M01D7W 64QAM 15.63 ERP 0.037 9M02D7W LTE Band BW Modulation BAND SAME SAME SAME SAME SAME SAME SAME SAME	26	1.4	16QAM	15.55	ERP	0.036	1M11D7W
26 3 16QAM 15.44 ERP 0.035 2M73D7W 64QAM 15.31 ERP 0.034 2M72D7W 26 5 QPSK 16.48 ERP 0.044 4M54G7D 26 16QAM 15.67 ERP 0.037 4M53D7W 64QAM 15.51 ERP 0.036 4M51D7W 26 16QAM 15.75 ERP 0.034 9M03G7D 26 16QAM 15.63 ERP 0.038 9M01D7W 28 16QAM 15.63 ERP 0.037 9M02D7W 30 5 16QAM 18.93 EIRP 0.087 4M53G7D 30 64QAM 19.11 EIRP 0.087 4M52D7W 30 16QAM 18.93 EIRP 0.087 9M09G7D 30 16QAM 18.63 EIRP 0.087 9M09G7D 30 16QAM 18.63 EIRP 0.073 9M07D7W 4M52D7W 16QAM 18.81 EIRP 0.076 9M05D7W 3			64QAM	15.47	ERP	0.035	1M11D7W
Composition Composition			QPSK	16.06	ERP	0.040	2M74G7D
26 5 QPSK 16.48 ERP 0.044 4M54G7D 26 16QAM 15.67 ERP 0.037 4M53D7W 44QAM 15.51 ERP 0.036 4M51D7W 26 10 16QAM 15.75 ERP 0.038 9M01D7W 46QAM 15.63 ERP 0.037 9M02D7W LTE Band BW Modulation ERP / EIRP (dBm) (W) Type of Emission 30 5 16QAM 18.93 EIRP 0.087 4M53G7D 30 15 16QAM 18.93 EIRP 0.087 4M52D7W 40PSK 19.40 EIRP 0.081 4M52D7W 30 16QAM 18.11 EIRP 0.081 4M52D7W 30 16QAM 18.63 EIRP 0.073 9M07D7W 40AQAM 18.81 EIRP 0.076 9M05D7W 38 5 16QAM 18.83 EIRP 0.076 4M54G7D <td>26</td> <td>3</td> <td>16QAM</td> <td>15.44</td> <td>ERP</td> <td>0.035</td> <td>2M73D7W</td>	26	3	16QAM	15.44	ERP	0.035	2M73D7W
26 5 16QAM 15.67 ERP 0.037 4M53D7W 40 64QAM 15.51 ERP 0.036 4M51D7W 26 10 16QAM 15.75 ERP 0.038 9M01D7W 64QAM 15.63 ERP 0.037 9M02D7W LTE Band BW Modulation 64QAM ERP / EIRP (dBm) (W) Type of Emission 30 5 16QAM 19.40 EIRP 0.087 4M53G7D 30 64QAM 19.11 EIRP 0.081 4M52D7W 40QPSK 19.42 EIRP 0.081 4M52D7W 30 16QAM 18.63 EIRP 0.087 9M09G7D 30 16QAM 18.63 EIRP 0.073 9M07D7W 44QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation 64QAM 18.83 EIRP 0.076 9M05D7W 38 16QAM 18.83 EIRP 0.076 4M59D7W 44M52D7W 16QAM 18.89 EIRP 0.077 9M			64QAM	15.31	ERP	0.034	2M72D7W
Column 15.51 ERP 0.036 4M51D7W			QPSK	16.48	ERP	0.044	4M54G7D
26 10 2PSK 16.41 16.41 16.41 16.41 16.41 16.41 16.41 16.41 16.41 16.44 16.41 16.	26	5	16QAM	15.67	ERP	0.037	4M53D7W
26 10 16QAM 15.75 ERP 0.038 9M01D7W LTE Band BW Modulation ERP / ERP / ERP (dBm) (W) Type of Emission 30 5 QPSK 19.40 EIRP 0.087 4M53G7D 30 16QAM 18.93 EIRP 0.078 4M52D7W 64QAM 19.11 EIRP 0.081 4M52D7W 30 10 16QAM 18.63 EIRP 0.073 9M07D7W 44QAM 18.81 EIRP 0.073 9M07D7W LTE Band BW Modulation 64QAM ERP / EIRP (dBm) (W) Type of Emission 38 5 QPSK 19.69 EIRP 0.076 4M54G7D 38 5 16QAM 18.83 EIRP 0.076 4M54G7D 38 10 16QAM 18.83 EIRP 0.076 4M52D7W 4QPSK 19.61 EIRP 0.079 4M52D7W 38 10 16QAM 18.89 EIRP 0.077 9M20D7W 4QPSK 19.85 EIRP 0.077 9M04D7W 4QPSK 19.85 EIRP 0.075 13M7D7W 64QAM			64QAM	15.51	ERP	0.036	4M51D7W
LTE Band BW Band Modulation ERP / EIRP (dB m) (W) Type of Emission 30 5 QPSK 19.40 EIRP 0.087 4M53G7D 30 16QAM 18.93 EIRP 0.081 4M52D7W 40QSK 19.42 EIRP 0.081 4M52D7W 40QSK 19.42 EIRP 0.087 9M09G7D 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation 64QAM 18.81 EIRP 0.076 9M05D7W 38 5 QPSK 19.69 EIRP 0.076 4M52D7W 38 10 16QAM 18.83 EIRP 0.076 4M52D7W 38 10 16QAM 18.83 EIRP 0.079 4M52D7W 38 10 16QAM 18.89 EIRP 0.079 9M04D7W 40QSK 19.85 EIRP 0.077 9M20D7W 40QPSK 19.85 EIRP 0.075 13M6G7D 38 15 16Q			QPSK	16.41	ERP	0.044	9M03G7D
LTE Band BW Band Modulation ERP / EIRP (dBm) (W) Type of Emission 30 5 19.40 EIRP 0.087 4M53G7D 30 16QAM 18.93 EIRP 0.078 4M52D7W 64QAM 19.11 EIRP 0.081 4M52D7W 4M52D7W 64QAM 19.42 EIRP 0.087 9M09G7D 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation ERP / EIRP (dBm) (W) Type of Emission 38 5 16QAM 18.83 EIRP 0.076 4M54G7D 38 5 16QAM 18.83 EIRP 0.076 4M52D7W 44QAM 19.00 EIRP 0.076 9M07G7D 38 10 16QAM 18.89 EIRP 0.077 9M2D7W 64QAM 18.83 EIRP 0.077 9M04D7W 38 15 16QAM 18.77 EIRP 0.075 13M6G7D 38 15 16QAM 18.89 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W	26	10	16QAM	15.75	ERP	0.038	9M01D7W
Band BW Modulation (dBm) (W) Emission 30 5 16QAM 19.40 EIRP 0.087 4M53G7D 30 16QAM 18.93 EIRP 0.078 4M52D7W 64QAM 19.11 EIRP 0.081 4M52D7W 30 10 16QAM 18.63 EIRP 0.087 9M09G7D 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation ERP / EIRP (U) Type of Emission 38 5 16QAM 18.83 EIRP 0.076 4M54G7D 38 5 16QAM 18.83 EIRP 0.076 4M52D7W 38 10 16QAM 18.89 EIRP 0.071 9M20D7W 38 15 16QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP			64QAM	15.63	ERP	0.037	9M02D7W
Band BW Modulation (dBm) (W) Emission 30 5 16QAM 19.40 EIRP 0.087 4M53G7D 30 16QAM 18.93 EIRP 0.078 4M52D7W 64QAM 19.11 EIRP 0.081 4M52D7W 30 10 16QAM 18.63 EIRP 0.087 9M09G7D 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation ERP / EIRP (U) Type of Emission 38 5 16QAM 18.83 EIRP 0.076 4M54G7D 38 5 16QAM 18.83 EIRP 0.076 4M52D7W 38 10 16QAM 18.89 EIRP 0.071 9M20D7W 38 15 16QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP	LTE			EDD /	EIDD		Type of
30 5 QPSK 19.40 EIRP 0.087 4M53G7D 30 16QAM 18.93 EIRP 0.078 4M52D7W 64QAM 19.11 EIRP 0.081 4M52D7W 30 10 QPSK 19.42 EIRP 0.087 9M09G7D 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation 64QAM ERP / EIRP (dBm) (W) Type of Emission 38 5 16QAM 18.83 EIRP 0.093 4M54G7D 38 5 16QAM 18.83 EIRP 0.076 4M59D7W 64QAM 19.00 EIRP 0.076 4M52D7W 38 10 16QAM 18.89 EIRP 0.077 9M20D7W 38 15 QPSK 19.85 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP		BW	Modulation	-		(W)	
30 5 16QAM 18.93 EIRP 0.078 4M52D7W 64QAM 19.11 EIRP 0.081 4M52D7W 30 10 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Modulation (dBm) (W) Type of Emission 38 5 16QAM 18.83 EIRP 0.073 4M54G7D 38 5 16QAM 18.83 EIRP 0.076 4M59D7W 64QAM 19.00 EIRP 0.079 4M52D7W 38 10 2PSK 19.61 EIRP 0.079 4M52D7W 38 16QAM 18.89 EIRP 0.071 9M07G7D 38 16QAM 18.89 EIRP 0.077 9M20D7W 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP 0.075 13M6G7D 38 20 16QAM 18.89 EIRP 0.075 13M7	Danu		ODCK	,		0 097	
30 64QAM 19.11 EIRP 0.081 4M52D7W 30 10 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Band Modulation G4QAM ERP / EIRP (UBm) (W) Type of Emission 38 5 16QAM 18.83 EIRP 0.093 4M54G7D 38 5 16QAM 18.83 EIRP 0.076 4M59D7W 38 10 QPSK 19.61 EIRP 0.079 4M52D7W 38 10 16QAM 18.89 EIRP 0.071 9M07G7D 38 15 16QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP 0.075 13M7D7W 40QPSK 19.84 EIRP 0.077 13M5D7W 38	30	5					
30 10 QPSK 19.42 EIRP 0.087 9M09G7D 16QAM 18.63 EIRP 0.073 9M07D7W 64QAM 18.81 EIRP 0.076 9M05D7W LTE Band BW Band Band Band Band Band Band Band Band	30	5					
30 10 16QAM 18.63 EIRP 0.073 9M07D7W LTE Band BW Band Modulation ERP / EIRP (dBm) (W) Type of Emission 38 5 QPSK 19.69 EIRP 0.093 4M54G7D 38 16QAM 18.83 EIRP 0.076 4M59D7W 40QAM 19.00 EIRP 0.076 4M52D7W 38 10 16QAM 18.89 EIRP 0.071 9M07G7D 38 10 16QAM 18.89 EIRP 0.077 9M20D7W 38 15 16QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.83 EIRP 0.075 13M6G7D 38 15 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.075 13M5D7W 38 20 16QAM 18.89 EIRP 0.077 18M1D7W							
LTE Band BW Band Modulation ERP / EIRP (dBm) (W) Type of Emission 38 5 QPSK 19.69 EIRP 0.093 4M54G7D 4M59D7W 64QAM 19.00 EIRP 0.076 4M59D7W 64QAM 19.00 EIRP 0.079 4M52D7W 4M52D7W 4M52D7W 64QAM 18.89 EIRP 0.091 9M07G7D 9M20D7W 64QAM 18.89 EIRP 0.077 9M20D7W 64QAM 18.83 EIRP 0.076 9M04D7W 64QAM 18.83 EIRP 0.076 9M04D7W 64QAM 18.83 EIRP 0.076 9M04D7W 13M6G7D 13M6G7D 13M6G7D 13M5D7W 64QAM 18.89 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W 64QAM 18.89 EIRP 0.077 13M5D7W 13M6G7D	30	10					
LTE Band BW Band Modulation ERP / EIRP (dBm) (W) Type of Emission 38 5 QPSK 19.69 EIRP 0.093 4M54G7D 38 16QAM 18.83 EIRP 0.076 4M59D7W 38 10 QPSK 19.61 EIRP 0.079 4M52D7W 38 10 16QAM 18.89 EIRP 0.071 9M07G7D 38 15 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W	50	10					
Band BW Modulation (dBm) (W) Emission 38 5 QPSK 19.69 EIRP 0.093 4M54G7D 38 16QAM 18.83 EIRP 0.076 4M59D7W 38 10 QPSK 19.61 EIRP 0.079 4M52D7W 38 10 16QAM 18.89 EIRP 0.091 9M07G7D 38 15 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W 38 20 16QAM 18.89 EIRP 0.077 18M1D7W			U4QAW			0.070	710103107 00
Band (dBm) Emission 38 5 QPSK 19.69 EIRP 0.093 4M54G7D 4M54G7D 16QAM 18.83 EIRP 0.076 4M59D7W 4M52D7W 64QAM 19.00 EIRP 0.079 4M52D7W 38 10 16QAM 18.89 EIRP 0.091 9M07G7D 38 15 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W		RW.	Modulation			(\\/)	٠.
38 5 16QAM 18.83 EIRP 0.076 4M59D7W 64QAM 19.00 EIRP 0.079 4M52D7W 38 10 16QAM 18.89 EIRP 0.091 9M07G7D 38 15 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 16QAM 18.77 EIRP 0.075 13M6G7D 38 15 16QAM 18.89 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W 38 20 16QAM 18.89 EIRP 0.077 18M1D7W	Band	DVV					
38 10 64QAM 19.00 EIRP 0.079 4M52D7W 38 10 QPSK 19.61 EIRP 0.091 9M07G7D 64QAM 18.89 EIRP 0.077 9M20D7W 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 QPSK 19.85 EIRP 0.075 13M6G7D 38 15 64QAM 18.89 EIRP 0.077 13M5D7W 64QAM 18.89 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W			QPSK		EIRP	0.093	4M54G7D
38 10 QPSK 19.61 EIRP 0.091 9M07G7D 16QAM 18.89 EIRP 0.077 9M20D7W 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 QPSK 19.85 EIRP 0.097 13M6G7D 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W QPSK 19.84 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W	38	5	16QAM	18.83	EIRP	0.076	4M59D7W
38 10 16QAM 18.89 EIRP 0.077 9M20D7W 64QAM 18.83 EIRP 0.076 9M04D7W 38 15 QPSK 19.85 EIRP 0.097 13M6G7D 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W QPSK 19.84 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W			64QAM	19.00	EIRP	0.079	4M52D7W
38 20 16QAM 18.83 EIRP 0.076 9M04D7W 38 15 QPSK 19.85 EIRP 0.097 13M6G7D 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W 38 20 16QAM 18.89 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W			QPSK	19.61	EIRP	0.091	9M07G7D
38 15 QPSK 19.85 EIRP 0.097 13M6G7D 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W QPSK 19.84 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W	38	10	16QAM	18.89	EIRP	0.077	9M20D7W
38 15 16QAM 18.77 EIRP 0.075 13M7D7W 64QAM 18.89 EIRP 0.077 13M5D7W QPSK 19.84 EIRP 0.096 18M0G7D 38 20 16QAM 18.89 EIRP 0.077 18M1D7W			64QAM	18.83	EIRP	0.076	9M04D7W
38 20 64QAM 18.89 EIRP 0.077 13M5D7W 18.89 EIRP 0.096 18M0G7D 18.89 EIRP 0.077 18M1D7W			QPSK	19.85	EIRP	0.097	13M6G7D
38 20 QPSK 19.84 EIRP 0.096 18M0G7D 16QAM 18.89 EIRP 0.077 18M1D7W	38	15	16QAM	18.77	EIRP	0.075	13M7D7W
38 20 16QAM 18.89 EIRP 0.077 18M1D7W			64QAM	18.89	EIRP	0.077	13M5D7W
			QPSK	19.84	EIRP	0.096	18M0G7D
64QAM 19.03 EIRP 0.080 18M0D7W	38	20	16QAM	18.89	EIRP	0.077	18M1D7W
			64QAM	19.03	EIRP	0.080	18M0D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
		QPSK	20.06	EIRP	0.101	4M53G7D
41	5	16QAM	19.83	EIRP	0.096	4M53D7W
		64QAM	19.81	EIRP	0.096	4M52D7W
		QPSK	20.67	EIRP	0.117	9M07G7D
41	10	16QAM	19.69	EIRP	0.093	9M09D7W
		64QAM	19.75	EIRP	0.094	9M04D7W
		QPSK	20.54	EIRP	0.113	13M6G7D
41	15	16QAM	19.66	EIRP	0.092	13M6D7W
		64QAM	19.30	EIRP	0.085	13M6D7W
		QPSK	20.68	EIRP	0.117	18M1G7D
41	20	16QAM	19.82	EIRP	0.096	18M1D7W
		64QAM	19.84	EIRP	0.096	18M0D7W

LTE Band	BW	Modulation	ERP / (dB		(W)	Type of Emission	
Danu		0.001/	,		0.050		
		QPSK	17.64	EIRP	0.058	1M11G7D	
66	1.4	16QAM	17.41	EIRP	0.055	1M11D7W	
		64QAM	17.11	EIRP	0.051	1M11D7W	
		QPSK	17.67	EIRP	0.058	2M72G7D	
66	3	16QAM	17.25	EIRP	0.053	2M72D7W	
		64QAM	17.20	EIRP	0.052	2M72D7W	
		QPSK	17.76	EIRP	0.060	4M52G7D	
66	5	16QAM	17.14	EIRP	0.052	4M53D7W	
		64QAM	17.27	EIRP	0.053	4M50D7W	
		QPSK	17.92	EIRP	0.062	9M08G7D	
66	10	16QAM	17.31	EIRP	0.054	9M08D7W	
		64QAM	17.15	EIRP	0.052	9M11D7W	
		QPSK	17.91	EIRP	0.062	13M5G7D	
66	15	16QAM	17.30	EIRP	0.054	13M6D7W	
		64QAM	17.21	EIRP	0.053	13M6D7W	
		QPSK	17.75	EIRP	0.060	18M0G7D	
66	20	16QAM	17.29	EIRP	0.054	18M0D7W	
			64QAM	17.19	EIRP	0.052	18M0D7W

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1.4. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

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

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

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

1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

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 in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	10	13.6
High Band (Above 1 GHz)	4.1	10	14.1

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2		1427
WCDMA B4		1433
WCDMA B5		1411
LTE Band 2		1478
LTE Band 4		1491
LTE Band 5		1286
LTE Band 7		1352
LTE Band 12		1300
LTE Band 13	11.55	1347
LTE Band 14	11.55	1338
LTE Band 17		1320
LTE Band 25		1490
LTE Band 26		1349
LTE Band 26 (Part 90S)		1306
LTE Band 30		1439
LTE Band 38		1425
LTE Band 41		1451
LTE Band 66		1357

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2.6. Configuration of Tested System

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

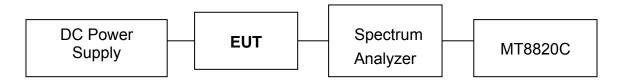


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

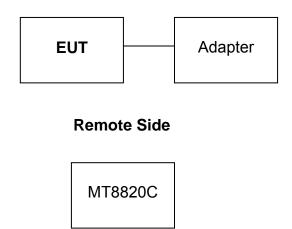


Table 2-1 Equipment Used in

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §90.542 §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691 §90.543	Out of Band Emissions at Antenna Ter- minals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2) §90.543	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50((B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213 §90.539	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	RADIATED EMISSION
WCDMA/HSPA Band II	E1-plan
WCDMA/HSPA Band IV	E1-plan
WCDMA/HSPA Band V	E1-plan
LTE Band 2	E1-plan
LTE Band 4	E1-plan
LTE Band 5	E1-plan
LTE Band 7	E1-plan
LTE Band 12	E1-plan
LTE Band 13	E1-plan
LTE Band 14	E1-plan
LTE Band 17	E1-plan
LTE Band 25	E1-plan
LTE Band 26	E1-plan
LTE Band 26 (Part 90S)	E1-plan
LTE Band 30	E1-plan
LTE Bnad 38	E1-plan
LTE Band 41	E1-plan
LTE Band 66	E1-plan

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WCDMA/HSPA MODE

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

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LTF Band 2 MODE

LTE Band 2 MODE							
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest		
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest		
EIRP	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest		
EIRP	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest		
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest		
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB		
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	Full RB		
OCCUPIED	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	Full RB		
BANDWIDTH	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	Full RB		
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	Full RB		
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	Full RB		
	18607 to 19193	18607, 18900, 19193	1.4MHz	64QAM	Full RB		
	18615 to 19185	18615, 18900, 19185	3MHz	64QAM	Full RB		
PEAK TO AV-	18625 to 19175	18625, 18900, 19175	5MHz	64QAM	Full RB		
ERAGE RATIO	18650 to 19150	18650, 18900, 19150	10MHz	64QAM	Full RB		
		18675, 18900, 19125	15MHz	64QAM	Full RB		
	18700 to 19100	18700, 18900, 19100	20MHz	64QAM	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		
2, 110 25 62	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	•	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB		
		18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest		
001100110=====		18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest		
		18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest		
EMISSION		18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest		
		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	5MHz	QPSK	1 RB, 1,0 RB Offest		

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LTE Band 4 MODE

LIE Ballu 4 MO					
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz		
EIRP	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
EIRF	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
			15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	NNEL	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, 64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	Full RB
OCCUPIED	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	Full RB
BANDWIDTH	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	Full RB
	CHANNEL 19957 to 19393 19957, 20175, 19393 1.4MHz Q 19965 to 22385 19965, 20175, 20375 5MHz Q 20000 to 20350 20000, 20175, 20350 10MHz Q 20025 to 20325 20025, 20175, 20325 15MHz Q 20050 to 20300 20050, 20175, 20350 10MHz Q 20050 to 20350 20005, 20175, 20350 10MHz Q 20050 to 20300 20050, 20175, 20300 20MHz Q 20050 to 20350 20175 20300 20MHz Q 20050 to 20350 20175 10MHz Q 20050 to 20350 20175 20300 20MHz Q 20050 to 20350 20175 20300 20MHz Q 20050 to 20350 20175 20350 10MHz Q 19957 to 19393 19957, 20175, 19393 1.4MHz Q 19975 to 20375 19975, 20175, 20350 10MHz Q 20050 to 20300 20050, 20175, 20350 10MHz Q 20050 to 20300 20050, 20175, 20300 20MHz Q 20050 to 20300 20050, 20175, 20300 20MHz Q 19957 to 19393 19957, 20175, 19393 1.4MHz Q 19957 to 19393 19957, 20175, 20350 10MHz Q 19957 to 19393 19957, 20175, 20350 10MHz Q 20050 to 20300 20050, 20175, 20350 10MHz Q 20050 to 20300 20050, 20175, 20350 10MHz Q 20050 to 20300 20000, 20175, 20350 10MHz Q 20050 to 20350 20000 20050, 20175, 20350 10MHz Q 20050 to 20	QPSK, 16QAM, 64QAM	Full RB		
	19957 to 19393	19957, 20175, 19393	1.4MHz	64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	64QAM	Full RB
PEAK TO AV-	19975 to 20375	19975, 20175, 20375	5MHz	64QAM	Full RB
ERAGE RATIO	20000 to 20350	20000, 20175, 20350	10MHz	64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	64QAM	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
BAND LDGL	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
		•		•	1 RB/ 0,99 RB Offest Full RB
					1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz		1 RB, 0 RB Offest
					1 RB, 0 RB Offest
EMISSION					1 RB, 0 RB Offest
					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	10MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 5 MODE

LIE Baild 3 MODE						
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest	
ERP	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest	
ERP	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest	
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest	
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB	
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	Full RB	
OCCUPIED	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	Full RB	
BANDWIDTH	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	Full RB	
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	Full RB	
	20470 to 20643	20470, 20525, 20643	1.4MHz	64QAM	Full RB	
PEAK TO AV-	20415 to 20635	20415, 20525, 20635	3MHz	64QAM	Full RB	
ERAGE RATIO	20425 to 20625	20425, 20525, 20625	5MHz	64QAM	Full RB	
	20450 to 20600	20450, 20525, 20600	10MHz	64QAM	Full RB	
	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB	
DAND EDGE	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB	
BAND EDGE	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB	
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB	
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest	
CONDCUDETED	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest	
EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest	
	20450 to 20600	20450, 20525, 20600	10MHz	IHz QPSK, IHz QPSK, 16QAM, 64QAM Hz QPSK, 16QAM, 64QAM Hz QPSK, 16QAM, 64QAM IHz G4QAM Hz 64QAM Hz 64QAM IHz G4QAM IHz QPSK, Hz QPSK, IHz QPSK, IHz QPSK, Hz QPSK, Hz QPSK, Hz QPSK, Hz QPSK, IHz QPSK, IHz QPSK, IHz QPSK,	1 RB, 0 RB Offest	
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest	

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LTE Band 7 MODE

	AV/AU ABLE				
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
EIRP	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
LIKE	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	Full RB
OCCUPIED	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	Full RB
BANDWIDTH	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	Full RB
	20775 to 21425	20775, 21100, 21425	5MHz	64QAM	Full RB
PEAK TO AV-	20800 to 21400	20800, 21100, 21400	10MHz	64QAM	Full RB
ERAGE RATIO	20850 to 21375	20850, 21100, 21375	15MHz	64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	64QAM	Full RB
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
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
CONDUCTED	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
EMISSION	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

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TE Band 12 MODE								
TEST ITEM	AVAILA- BLE CHANNEL	TESTED CHANNEL	CHANNEL BAND- WIDTH	MODULATION	MODE			
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest			
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest			
ERP	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest			
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB			
OCCUPIED	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	Full RB			
BANDWIDTH	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	Full RB			
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	Full RB			
	23017 to 23173	23017, 23095, 23173	1.4MHz	64QAM	Full RB			
PEAK TO AVERAGE	23025 to 23165	23025, 23095, 23165	3MHz	64QAM	Full RB			
RATIO	23035 to 23155	23035, 23095, 23155	5MHz	64QAM	Full RB			
	23060 to 23130	23060, 23095, 23130	10MHz	64QAM	Full RB			
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB			
DANID EDGE	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			
CONDCU-	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest			
DETED EMIS- SION	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest			
	23060 to 23130	23060, 23095, 23130	95, 3MHz QPSK, 16QAM, 64QAM, 95, 10MHz QPSK, 16QAM, 64QAM, 95, 5MHz QPSK, 16QAM, 64QAM, 95, 10MHz QPSK, 16QAM, 64QAM, 95, 10MHz QPSK, 16QAM, 64QAM, 95, 3MHz QPSK, 16QAM, 64QAM, 95, 3MHz QPSK, 16QAM, 64QAM, 95, 3MHz 64QAM, 95, 10MHz 64QAM, 95, 5MHz 64QAM, 95, 10MHz QPSK, 95, 3MHz QPSK, 95, 3MHz QPSK, 95, 10MHz QPSK, 95, 3MHz QPSK, 95, 5MHz QPSK, 95, 95, 95, 95, 95, 95, 95, 95, 95, 95	1 RB, 0 RB Offest				
RADIATED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 5 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, 64QAM	1 RB/ 0,24 RB Offest
LINF	23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	Full RB
BANDWIDTH	23230	23230	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AV-	23205 to 23255	23205, 23230, 23255	5MHz	64QAM	Full RB
ERAGE RATIO	23230	23230	10MHz	64QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
BAND EDGE	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
EMISSION	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 24 RB Offest

LTE Band 14 MODE

ana								
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE			
ERP	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest			
LINF	23330	23330	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest			
FREQUENCY STABILITY	23330	23330	10MHz	QPSK,	Full RB			
OCCUPIED	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM,	Full RB			
BANDWIDTH	23330	23330	10MHz	QPSK, 16QAM,	Full RB			
PEAK TO AV-	23305 to 23355	23305,23330,23355	5MHz	16QAM	Full RB			
ERAGE RATIO	23330	23330	10MHz	16QAM	Full RB			
BAND EDGE	23305 to 23355	23305, 23355	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB			
BAND EDGE	23330	23330	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB			
CONDCUDETED	23305 to 23355	23305,23330,23355	5MHz	QPSK,	1 RB, 0 RB Offest			
EMISSION	23330	23330	10MHz	QPSK,	1 RB, 0 RB Offest			
RADIATED EMISSION	23305 to 23355	23305,23330,23355	10MHz	QPSK,	1 RB/ 49 RB Offest			

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LTE Band 17 MODE

	TE Balla 17 MODE							
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE			
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest			
LINF	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest			
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB			
OCCUPIED	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	Full RB			
BANDWIDTH	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	Full RB			
PEAK TO AV-	23755 to 23825	23755, 23790, 23825	5MHz	64QAM	Full RB			
ERAGE RATIO	23780 to 23800	23780, 23790, 23800	10MHz	64QAM	Full RB			
DAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB			
BAND EDGE	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB			
CONDCUDETED	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest			
EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest			
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB/ 49 RB Offest			

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LTE Band 25 MODE

LTE Band 25 MODE						
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest	
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest	
EIRP	26065 to 26665	26065, 26365, 26665	5MHz		1 RB/ 0,24 RB Offest	
LIKE	26090 to 26640	26090, 26365, 26640	10MHz	64QAM	1 RB/ 0,49 RB Offest	
	26115 to 26615	26115, 26365, 26615	15MHz	64QAM	1 RB/ 0,74 RB Offest	
	26140 to 26590	26140, 26365, 26590	20MHz		1 RB/ 0,99 RB Offest	
FREQUENCY STA- BILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB	
	26047 to 26683	26047, 26365, 26683	1.4MHz	64QAM	Full RB	
	26055 to 26675	26055, 26365, 26675	3MHz	64QAM	Full RB	
OCCUPIED BAND-	26065 to 26665	26065, 26365, 26665	5MHz	MINTERPOLATION IMMIZ QPSK, 16QAM, 64QAM MHZ QPSK, 16QAM MHZ QPSK, 1	Full RB	
WIDTH	26090 to 26040 26090, 26365, 26615 15MHz 64QAM 64QAM 26115 to 26615 26055, 26365, 26665 3MHz 64QAM 26040 to 26590 26140, 26365, 26690 26040 to 26590 26140, 26365, 26690 26040 26090, 26365, 26665 3MHz 64QAM 64QAM 26045 to 26665 26065, 26365, 26665 3MHz 64QAM 26040 to 26590 26140, 26365, 26690 20MHz 64QAM 26040 to 26590 26140, 26365, 26690 20MHz 64QAM 26040 to 26590 26140, 26365, 26665 3MHz 64QAM 26040 to 26590 26140, 26365, 26690 20MHz 64QAM 26040 to 26590 26140, 26365, 26690 20MHz 64QAM 26040 to 26640 26090, 26365, 26690 20MHz 64QAM 26040 to 26590 26140, 26365, 26690 20MHz 64QAM 26040 to 26590 26140, 26365, 26690 20MHz 64QAM 26040 26090, 26365, 26665 3MHz 16QAM 26040 26040 26040, 26365, 26665 3MHz 16QAM 26040 26040 26040, 26365, 26665 3MHz 16QAM 26115 to 26615 26115, 26365, 26665 3MHz 16QAM 26115 to 26615 26115, 26365, 26665 3MHz 16QAM 26140 to 26590 26140, 26365, 26690 20MHz 16QAM 26140 to 26590 26140, 26365, 26695 3MHz 26047 to 26683 26047, 26683 1.4MHz 26047 to 26685 26065, 26665 5MHz 26047 to 26680 26047, 26683 1.4MHz 26047 to 26680 26047, 26683 1.4MHz 26047 to 26680 26047, 26683 1.4MHz 26047 to 26685 26065, 26665 5MHz 26047 to 26685 26065, 26665 5MHz 26047 to 26685 26065, 26665 5MHz 26047 to 26680 26047, 26683 1.4MHz 26047 to 26680 26047, 26680 1.4MHz 26047 to 26680 26047, 26680 1.4MHz 26047 to 26680 26047, 26680 1.4MHz 26047 to 26680 26047,		Full RB			
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM QPSK, 16QAM, 64QAM QPSK, 16QAM, 64QAM QPSK, 16QAM, 64QAM QPSK, 16QAM, 64QAM 16QAM 16QAM 16QAM	Full RB	
	26140 to 26590	26140, 26365, 26590	20MHz		Full RB	
				16QAM	Full RB	
		· ·			Full RB	
PEAK TO AVERAGE					Full RB	
RATIO					Full RB	
					Full RB	
			20MHz		Full RB	
				•	1 RB/ 0,5 RB Offes Full RB	
		· · · · · · · · · · · · · · · · · · ·	1		1 RB/ 0,14 RB Offest Full RB	
BAND EDGE		· · · · · · · · · · · · · · · · · · ·			1 RB/ 0,24 RB Offest Full RB	
		· · · · · · · · · · · · · · · · · · ·			1 RB/ 0,49 RB Offest Full RB	
	26115 to 26615	26115, 26615			1 RB/ 0,74 RB Offest Full RB	
	26140 to 26590	26140, 26590	20MHz		1 RB/ 0,99 RB Offest Full RB	
	26047 to 26683		1.4MHz		1 RB, 0 RB Offest	
		26055, 26365, 26675	3MHz		1 RB, 0 RB Offest	
CONDCUDETED		26065, 26365, 26665	5MHz		1 RB, 0 RB Offest	
EMISSION		26090, 26365, 26640	10MHz		1 RB, 0 RB Offest	
		26115, 26365, 26615	15MHz		1 RB, 0 RB Offest	
D.A.D.I.	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offest	
RADIATED EMIS- SION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB, 5 RB Offest	

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LTE Dand 26 MODE

LTE Band 26 MODE							
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM, 64QAM	1 RB/ 0,5 RB Offest		
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest		
ERP	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest		
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest		
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB		
000110150	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	Full RB		
OCCUPIED BANDWIDTH	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	Full RB		
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	Full RB		
		26865, 26915, 26965		QPSK, 16QAM, 64QAM	Full RB		
		26797, 26915, 27033		16QAM	Full RB		
PEAK TO AV-		26805, 26915, 27025		16QAM	Full RB		
ERAGE RATIO		26815, 26915, 27015		16QAM	Full RB		
LIVIOLIVIIIO		26840, 26915, 26990		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		
CONDCUDETED	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest		
	26805 to 27025	26805, 26915, 27025		QPSK,	1 RB, 0 RB Offest		
		26815, 26915, 27015		QPSK,	1 RB, 0 RB Offest		
EMISSION		26840, 26915, 26990		QPSK,	1 RB, 0 RB Offest		
		26865, 26915, 26965		QPSK	1 RB, 0 RB Offest		
RADIATED EMISSION	26865 to 26965	26865, 26915, 26965	15MHz	QPSK,	1 RB, 74 RB Offest		

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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, 64QAM	1 RB/ 0,5 RB Offest
ERP	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
LIXI	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STA- BILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
OCCUPIED BAND-	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	Full RB
WIDTH	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	Full RB
		26697, 26740, 26783		16QAM	Full RB
PEAK TO AVER-		26705, 26740, 26775		16QAM	Full RB
AGE 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
EMICOLON MACK	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
EMISSION MASK	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
EMISSION		26715, 26740, 26765		QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS- SION		26715, 26740, 26765		QPSK,	1 RB, 24 RB Offest

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LTF Band 30 MODE

LIE Band 30 MODE							
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest		
LINF	27710	27710	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest		
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB		
OCCUPIED	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM, 64QAM	Full RB		
BANDWIDTH	27710	27710	10MHz	QPSK, 16QAM, 64QAM	Full RB		
PEAK TO AV-	27685 to 27735	27685, 27710, 27735	5MHz	64QAM	Full RB		
ERAGE RATIO	27710	27710	10MHz	64QAM	Full RB		
EMISSION MASK	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB		
EIVII33ION WASK	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB		
CONDCUDETED	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest		
EMISSION	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest		
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0 RB Offest		

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LTE Band 38 MODE

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

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LTE Band 41 MODE

TEST ITEM	AVAILABLE	TESTED	CHANNEL	MODULATION	MODE
1201112	CHANNEL	CHANNEL	BANDWIDTH	IIIODOL/TITOTT	
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BAND-	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	Full RB
WIDTH	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	Full RB
	39675 to 41565	39675, 40620, 41565	5MHz	64QAM	Full RB
PEAK TO AVER- AGE RATIO	39700 to 41540	39700, 40620, 41540	10MHz	64QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	64QAM	Full RB
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED EMISSION	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMIS- SION	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	125 RB, 12 RB Offest

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	Full RB
OCCUPIED BANDWIDTH	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	Full RB
	131979 to 132665	131979, 132322, 132665	1.4MHz	64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	64QAM	Full RB
PEAK TO AV-	131997 to 132647	131997, 132322, 132647	5MHz	64QAM	Full RB
ERAGE RATIO	132022 to 132622	132022, 132322, 132622	10MHz	64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	64QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full
	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

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CONDCUDETED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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. MAXMUM OUTPUT POWER

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.

ERP/EIRP LIMIT

According to FCC §2.1046

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

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

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

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

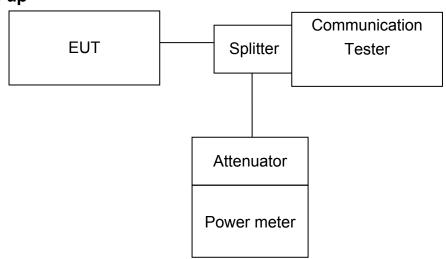
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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

FCC 90.542(a)(7) Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3. Measurement Procedure

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

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

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

TEST PROCEDURE:

ANSI C63.26:2015 KDB 971168 Section 5.6

ERP/EIRP = PMeas + GT-LC

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2 For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site									
EQUIPMENT MFR MODEL SERIAL LAST CAL DU									
TYPE		NUMBER	NUMBER	CAL.					
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14				
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29				

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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 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:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1852.4	9262	23.92	-5.76	18.16	33.00	-14.84
WCDMA	1880.0	9400	23.76	-5.76	18.00	33.00	-15.00
	1907.6	9538	23.99	-5.76	18.23	33.00	-14.77
	1852.4	9262	23.68	-5.76	17.92	33.00	-15.08
HSDPA	1880.0	9400	23.75	-5.76	17.99	33.00	-15.01
	1907.6	9538	23.98	-5.76	18.22	33.00	-14.78
	1852.4	9262	23.29	-5.76	17.53	33.00	-15.47
HSUPA	1880.0	9400	23.21	-5.76	17.45	33.00	-15.55
	1907.6	9538	23.26	-5.76	17.50	33.00	-15.50

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1712.4	1312	23.68	-5.78	17.90	30.00	-12.10
WCDMA	1732.6	1413	23.84	-5.78	18.06	30.00	-11.94
	1752.6	1513	23.79	-5.78	18.01	30.00	-11.99
	1712.4	1312	23.63	-5.78	17.85	30.00	-12.15
HSDPA	1732.6	1413	23.83	-5.78	18.05	30.00	-11.95
	1752.6	1513	23.78	-5.78	18.00	30.00	-12.00
	1712.4	1312	23.14	-5.78	17.36	30.00	-12.64
HSUPA	1732.6	1413	23.28	-5.78	17.50	30.00	-12.50
	1752.6	1513	23.23	-5.78	17.45	30.00	-12.55

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	826.4	4132	23.75	-4.74	19.01	38.50	-19.49
WCDMA	836.6	4183	23.85	-4.74	19.11	38.50	-19.39
	846.6	4233	23.98	-4.74	19.24	38.50	-19.26
	826.4	4132	23.74	-4.74	19.00	38.50	-19.50
HSDPA	836.6	4183	23.84	-4.74	19.10	38.50	-19.40
	846.6	4233	23.94	-4.74	19.20	38.50	-19.30
	826.4	4132	22.56	-4.74	17.82	38.50	-20.68
HSUPA	836.6	4183	22.71	-4.74	17.97	38.50	-20.53
	846.6	4233	22.77	-4.74	18.03	38.50	-20.47

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 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. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

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

Sub-test	βς	eta_d	β _d (SF)	βc/βd	β _{HS} (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.

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 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. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

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

Sub- test	βο	βа	β _d (SF)	βс∕βа	βнѕ	βес	βed	β _{ed} (SF)	β _{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

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Results:

Mode	Sub test	Avg. Power (dBm) Channel				
	เธรเ	9262.00	9400.00	9538.00		
	1	23.68	23.75	23.98		
HSDPA II	2	22.71	22.70	22.82		
пэргаш	3	22.24	22.26	22.34		
	4	21.96	21.96	22.05		

Mode	Sub test	Avg. Power (dBm) Channel				
	เธรเ	1312.00	1413.00	1513.00		
	1	23.63	23.83	23.78		
HSDPA IV	2	22.66	22.79	22.77		
HODEA IV	3	22.16	22.31	22.27		
	4	21.94	22.03	22.02		

Mode	Cook	Avg. Power (dBm)				
	Sub test		Channel			
		4132.00	4183.00	4233.00		
	1	23.74	23.84	23.94		
HSDPA V	2	22.63	22.76	22.79		
H3DFA V	3	22.07	22.26	22.16		
	4	21.89	21.99	21.94		

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Mode	Sub test	Avg. Power (dBm) Channel				
	เธรเ	9262.00	9400.00	9538.00		
	1	23.29	23.21	23.26		
	2	23.81	23.72	23.80		
HSUPA II	3	22.25	22.26	22.23		
	4	23.90	23.74	23.82		
	5	22.78	22.72	22.74		

Mode	Sub test	Avg. Power (dBm) Channel				
	icsi	1312.00	1413.00	1513.00		
	1	23.14	23.28	23.23		
	2	23.67	23.80	23.72		
HSUPA IV	3	22.15	22.31	22.27		
	4	23.66	23.82	23.77		
	5	22.68	22.80	22.76		

Mode	C 1	Avg. Power (dBm)				
	Sub test		Channel			
	1031	4132.00	4183.00	4233.00		
	1	22.56	22.71	22.77		
	2	20.38	20.36	20.37		
HSUPA V	3	21.05	21.11	21.10		
	4	20.57	20.64	20.62		
	5	22.60	22.80	22.70		

WCDMA/HSDPA/HSUPA band II, IV, V

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

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LTE Result:

Antenna gain (dRi) -5 33

Antenna	gain (dBi)	-5.33 L 3	TE Band 2 U	plink fr	eguency band	I : 1850 to 1910) MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.31	17.98	33	-15.02
	10/07	1850.7	QPSK	1	5	23.30	17.97	33	-15.03
	18607	1630.7	QPSK	3	2	22.99	17.66	33	-15.34
				6	0	22.33	17.00	33	-16
				1	0	23.33	18.00	33	-15
	18900	1880	QPSK	1	5	23.21	17.88	33	-15.12
	16900	1000	QPSK	3	2	22.91	17.58	33	-15.42
				6	0	22.20	16.87	33	-16.13
				1	0	23.22	17.89	33	-15.11
	10102	1909.3	QPSK	1	5	22.91	17.58	33	-15.42
	19193	1909.3	QPSK	3	2	23.00	17.67	33	-15.33
				6	0	22.09	16.76	33	-16.24
				1	0	22.34	17.01	33	-15.99
	10/07	1850.7	16QAM	1	5	22.11	16.78	33	-16.22
	18607	1850.7	TOCAIVI	3	2	21.95	16.62	33	-16.38
				6	0	21.44	16.11	33	-16.89
			16QAM	1	0	22.22	16.89	33	-16.11
1.4	10000	1880		1	5	22.41	17.08	33	-15.92
1.4	18900	1880	TOQAIVI	3	2	21.98	16.65	33	-16.35
				6	0	21.22	15.89	33	-17.11
				1	0	22.27	16.94	33	-16.06
	10102	1909.3	1/0414	1	5	22.36	17.03	33	-15.97
	19193	1909.3	16QAM	3	2	21.91	16.58	33	-16.42
				6	0	21.00	15.67	33	-17.33
				1	0	22.88	17.55	33	-15.45
	10/07	1050.7	(40014	1	5	22.28	16.95	33	-16.05
	18607	1850.7	64QAM	3	2	21.31	15.98	33	-17.02
				6	0	21.45	16.12	33	-16.88
				1	0	22.15	16.82	33	-16.18
	10000	1000	(40014	1	5	21.96	16.63	33	-16.37
	18900	1880	64QAM	3	2	21.14	15.81	33	-17.19
				6	0	21.29	15.96	33	-17.04
				1	0	22.17	16.84	33	-16.16
	10102	1000.3	/ 4 O A B A	1	5	22.42	17.09	33	-15.91
	19193	1909.3	64QAM	3	2	21.13	15.80	33	-17.2
				6	0	21.17	15.84	33	-17.16

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Antenna gain (dRi)

Antenna	gain (dBi)	-5.33 L	ΓΕ Band 2 U	plink fre	equency ban	d : 1850 to 1910) MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.20	17.87	33	-15.13
	10/15	1051 5	ODCK	1	14	23.32	17.99	33	-15.01
	18615	1851.5	QPSK	8	4	22.29	16.96	33	-16.04
				15	0	22.36	17.03	33	-15.97
				1	0	23.35	18.02	33	-14.98
	18900	1880	QPSK	1	14	23.11	17.78	33	-15.22
	10900	1000	UPSK	8	4	22.18	16.85	33	-16.15
				15	0	22.20	16.87	33	-16.13
				1	0	22.99	17.66	33	-15.34
	19185	1908.5	QPSK	1	14	22.90	17.57	33	-15.43
	19100	1906.3	UPSK	8	4	22.17	16.84	33	-16.16
				15	0	22.13	16.80	33	-16.2
				1	0	22.75	17.42	33	-15.58
	18615	1851.5	16QAM	1	14	21.97	16.64	33	-16.36
	10013	1831.3	TOQAIVI	8	4	21.27	15.94	33	-17.06
				15	0	21.26	15.93	33	-17.07
		1880	16QAM	1	0	22.59	17.26	33	-15.74
3	18900			1	14	22.02	16.69	33	-16.31
3	10900	1000	TOQAW	8	4	21.21	15.88	33	-17.12
				15	0	21.24	15.91	33	-17.09
				1	0	22.01	16.68	33	-16.32
	19185	1908.5	16QAM	1	14	22.16	16.83	33	-16.17
	19100	1900.5	TOQAW	8	4	21.10	15.77	33	-17.23
				15	0	21.08	15.75	33	-17.25
				1	0	22.71	17.38	33	-15.62
	18615	1851.5	64QAM	1	14	21.93	16.60	33	-16.4
	10013	1001.0	04QAIVI	8	4	21.24	15.91	33	-17.09
				15	0	21.23	15.90	33	-17.1
				1	0	22.55	17.22	33	-15.78
	18900	1880	64QAM	1	14	22.01	16.68	33	-16.32
	10900	1000	U4QAIVI	8	4	21.12	15.79	33	-17.21
				15	0	21.15	15.82	33	-17.18
				1	0	22.00	16.67	33	-16.33
	19185	1908.5	64QAM	1	14	22.13	16.80	33	-16.2
	17100	1700.3	U4QAIVI	8	4	21.02	15.69	33	-17.31
				15	0	21.07	15.74	33	-17.26

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Antenna	gain (dBi)	-5.33							
BW (MHz)	UL Channel	Frequency (MHz)	TE Band 2_U Modulation	RB Size	quency ban RB Offset	d: 1850 to 1910 Conducted Average	EIRP Average	EIRP Limit	Margi (dB)
(IVII IZ)	Channel	(IVII IZ)				(dBm)	(dBm)	(dBm)	
				1	0	23.29	17.96	33	-15.04
	18625	1852.5	QPSK	1	24	23.34	18.01	33	-14.9
				12	6	22.57	17.24	33	-15.7
				25	0	22.44	17.11	33	-15.8
				1	0	23.37	18.04	33	-14.9
	18900	1880	QPSK	1	24	23.15	17.82	33	-15.1
				12	6	22.37	17.04	33	-15.9
				25	0	22.32	16.99	33	-16.0
				1	0	23.33	18.00	33	-15
	19175	1907.5	QPSK	1	24	22.86	17.53	33	-15.4
				12	6	22.28	16.95	33	-16.0
				25	0	22.35	17.02	33	-15.9
				1	0	22.43	17.10	33	-15.
1862	18625	1852.5	16QAM	1	24	22.85	17.52	33	-15.4
	10023	1002.0		12	6	21.53	16.20	33	-16.
				25	0	21.57	16.24	33	-16.7
				1	0	22.36	17.03	33	-15.9
5	18900	1880	16QAM	1	24	22.11	16.78	33	-16.2
J	10700	1000	TOCAIVI	12	6	21.32	15.99	33	-17.0
				25	0	21.29	15.96	33	-17.0
				1	0	22.47	17.14	33	-15.8
	10175	1007 E	140011	1	24	22.22	16.89	33	-16.1
	19175	1907.5	16QAM	12	6	21.29	15.96	33	-17.0
				25	0	21.28	15.95	33	-17.0
				1	0	22.87	17.54	33	-15.4
	10/05	1050 5	(4000	1	24	22.20	16.87	33	-16.1
	18625	1852.5	64QAM	12	6	21.34	16.01	33	-16.9
				25	0	21.31	15.98	33	-17.0
				1	0	22.23	16.90	33	-16.
	10000	1000	(40.454	1	24	21.82	16.49	33	-16.5
	18900	1880	64QAM	12	6	21.11	15.78	33	-17.2
				25	0	21.10	15.77	33	-17.2
				1	0	22.23	16.90	33	-16.
	401==	4007 =		1	24	22.32	16.99	33	-16.0
	19175	1907.5	64QAM	12	6	20.95	15.62	33	-17.3

25

0

21.14

15.81

33

-17.19

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Antenna gain (dRi)

Antenna	Antenna gain (dBi) -5.33 LTE Band 2_Uplink frequency band : 1850 to 1910 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)				
				1	0	23.33	18.00	33	-15				
	18650	1855	QPSK	1	49	23.54	18.21	33	-14.79				
	10000	1000	QPSK	25	12	22.49	17.16	33	-15.84				
				50	0	22.44	17.11	33	-15.89				
				1	0	23.55	18.22	33	-14.78				
	18900	1880	QPSK	1	49	23.14	17.81	33	-15.19				
	10900	1000	UPSK	25	12	22.27	16.94	33	-16.06				
				50	0	22.23	16.90	33	-16.1				
				1	0	23.02	17.69	33	-15.31				
	19150	1905	QPSK	1	49	23.11	17.78	33	-15.22				
	19130	1900	UPSK	25	12	22.18	16.85	33	-16.15				
				50	0	22.27	16.94	33	-16.06				
				1	0	22.18	16.85	33	-16.15				
	10/50	1055	140011	1	49	22.71	17.38	33	-15.62				
	18650	1855	16QAM	25	12	21.59	16.26	33	-16.74				
				50	0	21.55	16.22	33	-16.78				
		1000	16QAM	1	0	22.34	17.01	33	-15.99				
10	10000			1	49	22.07	16.74	33	-16.26				
10	18900	1880		25	12	21.40	16.07	33	-16.93				
				50	0	21.14	15.81	33	-17.19				
				1	0	22.35	17.02	33	-15.98				
	10150	1005	1/0414	1	49	22.58	17.25	33	-15.75				
	19150	1905	16QAM	25	12	21.31	15.98	33	-17.02				
				50	0	21.24	15.91	33	-17.09				
				1	0	22.73	17.40	33	-15.6				
	10/50	1055	/ 4 O A N A	1	49	22.12	16.79	33	-16.21				
	18650	1855	64QAM	25	12	21.50	16.17	33	-16.83				
				50	0	21.29	15.96	33	-17.04				
				1	0	22.17	16.84	33	-16.16				
	10000	1000	(4000	1	49	21.88	16.55	33	-16.45				
	18900	1880	64QAM	25	12	21.11	15.78	33	-17.22				
				50	0	21.13	15.80	33	-17.2				
				1	0	22.21	16.88	33	-16.12				
	40450	400-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	49	22.40	17.07	33	-15.93				
	19150	1905	64QAM	25	12	21.03	15.70	33	-17.3				
				50	0	21.11	15.78	33	-17.22				

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Antenna	gain (dBi)	-5.33	FE D. 10.11	l' C		1 40501 4040	. B. A. I.		
	I	L	IE Band 2_U	olink fre	quency band	d : 1850 to 1910		FIDD	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margir (dB)
				1	0	23.37	18.04	33	-14.96
	18675	1857.5	QPSK	1	74	23.27	17.94	33	-15.06
	10073	1007.0	QF3K	36	18	22.37	17.04	33	-15.96
				75	0	22.42	17.09	33	-15.91
				1	0	23.38	18.05	33	-14.9
	18900	1880	QPSK	1	74	22.98	17.65	33	-15.35
	10900	1000	QPSK	36	18	22.33	17.00	33	-16
				75	0	22.26	16.93	33	-16.07
				1	0	23.15	17.82	33	-15.18
	19125	1902.5	QPSK	1	74	23.30	17.97	33	-15.03
	19125	1902.5	UPSK	36	18	22.17	16.84	33	-16.16
				75	0	22.23	16.90	33	-16.1
				1	0	22.96	17.63	33	-15.37
	10/75	1057.5	16QAM	1	74	22.19	16.86	33	-16.1
	18675	1857.5	TOQAW	36	18	21.40	16.07	33	-16.93
				75	0	21.44	16.11	33	-16.89
			16QAM	1	0	22.59	17.26	33	-15.7
15	18900	1880		1	74	22.34	17.01	33	-15.9
15	18900	1000		36	18	21.31	15.98	33	-17.0
				75	0	21.25	15.92	33	-17.0
				1	0	22.43	17.10	33	-15.9
	19125	1000 F	16QAM	1	74	22.24	16.91	33	-16.0
	19125	1902.5	TOQAIVI	36	18	21.26	15.93	33	-17.0
				75	0	21.22	15.89	33	-17.1
				1	0	22.85	17.52	33	-15.4
	10/75	1057.5	(40014	1	74	22.20	16.87	33	-16.1
	18675	1857.5	64QAM	36	18	21.42	16.09	33	-16.9
				75	0	21.39	16.06	33	-16.9
				1	0	22.18	16.85	33	-16.1
	10000	1000	(4000	1	74	21.87	16.54	33	-16.4
	18900	1880	64QAM	36	18	21.25	15.92	33	-17.0
				75	0	21.15	15.82	33	-17.18
				1	0	22.21	16.88	33	-16.12
	10105	1000 5	(40.454	1	74	22.35	17.02	33	-15.98
	19125	1902.5	64QAM	36	18	21.08	15.75	33	-17.2
				75	0	21.13	15.80	33	-17.2

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Antenna	gain (dBi)	-5.33	FF D 10 11			1 40501 4040			
		L	TE Band 2_U	plink fre	equency band	d : 1850 to 1910			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.56	18.23	33	-14.77
	18700	1860	QPSK	1	99	23.18	17.85	33	-15.15
	10700	1000	QI 3K	50	25	22.45	17.12	33	-15.88
				100	0	22.46	17.13	33	-15.87
				1	0	23.46	18.13	33	-14.87
	18900	1880	QPSK	1	99	23.19	17.86	33	-15.14
	10700	1000	QF3K	50	25	22.22	16.89	33	-16.11
				100	0	22.11	16.78	33	-16.22
				1	0	23.35	18.02	33	-14.98
	19100	1900	QPSK	1	99	23.04	17.71	33	-15.29
	19100	1900	QPSK	50	25	22.15	16.82	33	-16.18
				100	0	22.25	16.92	33	-16.08
				1	0	22.92	17.59	33	-15.41
	18700	1860	16QAM	1	99	22.29	16.96	33	-16.04
	10700	1000	TOQAW	50	25	21.51	16.18	33	-16.82
				100	0	21.48	16.15	33	-16.85
		1880	16QAM	1	0	22.35	17.02	33	-15.98
20	18900			1	99	21.98	16.65	33	-16.35
20	10900	1000		50	25	21.27	15.94	33	-17.06
				100	0	21.30	15.97	33	-17.03
				1	0	22.23	16.90	33	-16.1
	19100	1900	16QAM	1	99	22.44	17.11	33	-15.89
	19100	1900	TOQAW	50	25	21.14	15.81	33	-17.19
				100	0	21.25	15.92	33	-17.08
				1	0	22.79	17.46	33	-15.54
	18700	1860	64QAM	1	99	22.18	16.85	33	-16.15
	10700	1000	04QAIVI	50	25	21.42	16.09	33	-16.91
				100	0	21.30	15.97	33	-17.03
				1	0	22.34	17.01	33	-15.99
	18900	1880	640011	1	99	21.84	16.51	33	-16.49
	10900	ΙδάΟ	64QAM	50	25	21.25	15.92	33	-17.08
				100	0	21.23	15.90	33	-17.1
				1	0	22.15	16.82	33	-16.18
	10100	1000	6 4 O A B 4	1	99	22.27	16.94	33	-16.06
	19100	1900	64QAM	50	25	21.00	15.67	33	-17.33
				100	0	21.09	15.76	33	-17.24

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Antenna gain (dRi) -5 34

Antenna gain (dBi) -5.34 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
				1	0	23.01	17.67	30	-12.33			
	19957	1710.7	QPSK	1	5	23.12	17.78	30	-12.22			
	19957	1710.7	UPSK	3	2	22.91	17.57	30	-12.43			
				6	0	22.14	16.80	30	-13.2			
				1	0	23.12	17.78	30	-12.22			
	20175	1732.5	QPSK	1	5	23.13	17.79	30	-12.21			
	20175	1732.3	UPSK	3	2	22.93	17.59	30	-12.41			
				6	0	22.16	16.82	30	-13.18			
				1	0	23.15	17.81	30	-12.19			
	20393	1754.3	QPSK	1	5	23.02	17.68	30	-12.32			
	20393	1754.5	UPSK	3	2	22.90	17.56	30	-12.44			
				6	0	22.08	16.74	30	-13.26			
				1	0	22.19	16.85	30	-13.15			
	10057	1710 7	1/0004	1	5	22.32	16.98	30	-13.02			
19957	1710.7	16QAM	3	2	21.96	16.62	30	-13.38				
			6	0	21.22	15.88	30	-14.12				
			1	0	22.32	16.98	30	-13.02				
1 /	20175	1700 F	16QAM	1	5	22.24	16.90	30	-13.1			
1.4	20175	1732.5	TOQAW	3	2	21.92	16.58	30	-13.42			
				6	0	21.29	15.95	30	-14.05			
				1	0	22.52	17.18	30	-12.82			
	20202	17540	1/0414	1	5	22.68	17.34	30	-12.66			
	20393	1754.3	16QAM	3	2	21.90	16.56	30	-13.44			
				6	0	21.21	15.87	30	-14.13			
				1	0	22.79	17.45	30	-12.55			
	10057	1710 7	(40014	1	5	22.77	17.43	30	-12.57			
	19957	1710.7	64QAM	3	2	21.03	15.69	30	-14.31			
				6	0	21.17	15.83	30	-14.17			
				1	0	22.76	17.42	30	-12.58			
	20175	1700 5	/ 40 0 0 0 0	1	5	22.16	16.82	30	-13.18			
	20175	1732.5	64QAM	3	2	21.15	15.81	30	-14.19			
				6	0	21.04	15.70	30	-14.3			
				1	0	22.81	17.47	30	-12.53			
	20222	17540	/ 40 454	1	5	22.31	16.97	30	-13.03			
	20393 1754.3	64QAM	3	2	21.11	15.77	30	-14.23				
				6	0	21.14	15.80	30	-14.2			

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Δntenna gain (dRi) 5 3/

Antenna	Antenna gain (dBi) -5.34 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)				
				1	0	23.06	17.72	30	-12.28				
	19965	1711.5	QPSK	1	14	22.89	17.55	30	-12.45				
	19900	1711.5	QPSK	8	4	22.13	16.79	30	-13.21				
				15	0	22.09	16.75	30	-13.25				
				1	0	23.06	17.72	30	-12.28				
	20175	1732.5	QPSK	1	14	23.03	17.69	30	-12.31				
	20173	1732.3	QPSK	8	4	22.13	16.79	30	-13.21				
				15	0	22.13	16.79	30	-13.21				
				1	0	23.10	17.76	30	-12.24				
	20385	1753.5	QPSK	1	14	23.07	17.73	30	-12.27				
	20363	1705.0	QPSK	8	4	22.06	16.72	30	-13.28				
				15	0	22.07	16.73	30	-13.27				
				1	0	22.83	17.49	30	-12.51				
	10045	1711.5	16QAM	1	14	22.16	16.82	30	-13.18				
	19965 1	1711.3	TOQAW	8	4	21.15	15.81	30	-14.19				
				15	0	21.12	15.78	30	-14.22				
			16QAM	1	0	21.93	16.59	30	-13.41				
3	20175	1732.5		1	14	22.41	17.07	30	-12.93				
3	20173	1732.3	TOQAW	8	4	21.17	15.83	30	-14.17				
				15	0	21.12	15.78	30	-14.22				
				1	0	22.76	17.42	30	-12.58				
	20385	1753.5	16QAM	1	14	22.39	17.05	30	-12.95				
	20363	1705.0	TOQAW	8	4	21.14	15.80	30	-14.2				
				15	0	21.01	15.67	30	-14.33				
				1	0	22.77	17.43	30	-12.57				
	19965	1711.5	64QAM	1	14	22.80	17.46	30	-12.54				
	17700	1711.5	04QAIVI	8	4	21.02	15.68	30	-14.32				
				15	0	21.12	15.78	30	-14.22				
				1	0	22.66	17.32	30	-12.68				
	20175	1732.5	64QAM	1	14	22.19	16.85	30	-13.15				
	20175	1732.3	04QAIVI	8	4	21.21	15.87	30	-14.13				
				15	0	21.03	15.69	30	-14.31				
				1	0	22.71	17.37	30	-12.63				
	20205	17F2 F	4 4 0 4 4 4	1	14	22.27	16.93	30	-13.07				
	20385	1753.5	64QAM	8	4	21.22	15.88	30	-14.12				
				15	0	21.19	15.85	30	-14.15				

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Δntenna gain (dRi) 5 3/

Antenna	Antenna gain (dBi) -5.34 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)				
				1	0	23.06	17.72	30	-12.28				
	19975	1712.5	QPSK	1	24	23.27	17.93	30	-12.07				
	19973	1712.3	QPSK	12	6	22.16	16.82	30	-13.18				
				25	0	22.16	16.82	30	-13.18				
				1	0	23.01	17.67	30	-12.33				
	20175	1732.5	QPSK	1	24	23.13	17.79	30	-12.21				
	20173	1732.3	QPSK	12	6	22.18	16.84	30	-13.16				
				25	0	22.17	16.83	30	-13.17				
				1	0	23.12	17.78	30	-12.22				
	20375	1752.5	QPSK	1	24	23.05	17.71	30	-12.29				
	20373	1732.3	QPSK	12	6	22.19	16.85	30	-13.15				
				25	0	22.13	16.79	30	-13.21				
				1	0	22.66	17.32	30	-12.68				
	10075	1710 5	16QAM	1	24	22.62	17.28	30	-12.72				
	19975 1712.5	1712.3	TOQAW	12	6	21.30	15.96	30	-14.04				
				25	0	21.14	15.80	30	-14.2				
			1732.5 16QAM	1	0	22.40	17.06	30	-12.94				
5	20175	1722 5		1	24	22.20	16.86	30	-13.14				
5	20173	1732.3		12	6	21.46	16.12	30	-13.88				
				25	0	21.27	15.93	30	-14.07				
				1	0	22.41	17.07	30	-12.93				
	20375	1752.5	16QAM	1	24	22.50	17.16	30	-12.84				
	20373	1732.3	TOQAW	12	6	21.41	16.07	30	-13.93				
				25	0	21.29	15.95	30	-14.05				
				1	0	22.86	17.52	30	-12.48				
	19975	1712.5	64QAM	1	24	22.76	17.42	30	-12.58				
	17773	1712.5	04QAIVI	12	6	21.19	15.85	30	-14.15				
				25	0	21.27	15.93	30	-14.07				
				1	0	22.65	17.31	30	-12.69				
	20175	1732.5	64QAM	1	24	22.22	16.88	30	-13.12				
	20173	1732.3	U4QAIVI	12	6	21.05	15.71	30	-14.29				
				25	0	21.01	15.67	30	-14.33				
				1	0	22.69	17.35	30	-12.65				
	20275	1752.5	610011	1	24	22.26	16.92	30	-13.08				
	20375	1702.0	64QAM	12	6	21.08	15.74	30	-14.26				
				25	0	21.19	15.85	30	-14.15				

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Antenna	Antenna gain (dBi) -5.34 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)				
				1	0	23.33	17.99	30	-12.01				
	20000	1715	ODCK	1	49	23.21	17.87	30	-12.13				
	20000	1715	QPSK	25	12	22.17	16.83	30	-13.17				
				50	0	22.20	16.86	30	-13.14				
				1	0	23.34	18.00	30	-12				
	20175	1732.5	QPSK	1	49	23.10	17.76	30	-12.24				
	20173	1732.3	UPSK	25	12	22.09	16.75	30	-13.25				
				50	0	22.09	16.75	30	-13.25				
				1	0	23.26	17.92	30	-12.08				
	20375	1750	QPSK	1	49	23.42	18.08	30	-11.92				
	20373	1750	QPSK	25	12	22.10	16.76	30	-13.24				
				50	0	22.09	16.75	30	-13.25				
				1	0	22.37	17.03	30	-12.97				
	20000	1715	16QAM	1	49	22.80	17.46	30	-12.54				
	20000	1713	TOQAW	25	12	21.29	15.95	30	-14.05				
				50	0	21.22	15.88	30	-14.12				
			16QAM	1	0	22.30	16.96	30	-13.04				
10	20175	1732.5		1	49	22.55	17.21	30	-12.79				
10	20173	1732.3	TOQAW	25	12	21.15	15.81	30	-14.19				
				50	0	21.09	15.75	30	-14.25				
				1	0	22.44	17.10	30	-12.9				
	20375	1750	16QAM	1	49	22.21	16.87	30	-13.13				
	20373	1750	TOQAW	25	12	21.19	15.85	30	-14.15				
				50	0	21.16	15.82	30	-14.18				
				1	0	22.72	17.38	30	-12.62				
	20000	1715	64QAM	1	49	22.81	17.47	30	-12.53				
	20000	1713	04QAIVI	25	12	21.14	15.80	30	-14.2				
				50	0	21.22	15.88	30	-14.12				
				1	0	22.68	17.34	30	-12.66				
	20175	1732.5	64QAM	1	49	22.19	16.85	30	-13.15				
	20173	1732.3	04QAIVI	25	12	21.04	15.70	30	-14.3				
				50	0	21.20	15.86	30	-14.14				
				1	0	22.84	17.50	30	-12.5				
	20375	1750	64QAM	1	49	22.43	17.09	30	-12.91				
	203/3	1750	04QAIVI	25	12	21.15	15.81	30	-14.19				
<u></u>				50	0	21.07	15.73	30	-14.27				

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5 34 Antenna gain (dRi)

Antenna	Antenna gain (dBi) -5.34 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz												
		L	I E Dallu 4_U	μιπικ τ	requenc	Conducted	EIRP	EIRP					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Average (dBm)	Average (dBm)	Limit (dBm)	Margin (dB)				
				1	0	23.34	18.00	30	-12				
				1	74	23.15	17.81	30	-12.19				
	20025	1717.5	QPSK	36	18	22.17	16.83	30	-13.17				
				75	0	22.12	16.78	30	-13.22				
				1	0	23.19	17.85	30	-12.15				
	20175	1700 F	ODCI	1	74	23.07	17.73	30	-12.27				
	20175	1732.5	QPSK	36	18	22.12	16.78	30	-13.22				
				75	0	22.18	16.84	30	-13.16				
				1	0	23.19	17.85	30	-12.15				
	20225	17 <i>1</i> 7 E	ODCK	1	74	23.20	17.86	30	-12.14				
	20325	1747.5	QPSK	36	18	22.12	16.78	30	-13.22				
				75	0	22.13	16.79	30	-13.21				
				1	0	22.80	17.46	30	-12.54				
	20025	1717 5	16QAM	1	74	22.31	16.97	30	-13.03				
	20025 1717.5	1/1/.3	TOQAWI	36	18	21.24	15.90	30	-14.1				
				75	0	21.30	15.96	30	-14.04				
			1	0	22.85	17.51	30	-12.49					
15	20175	1732.5	16QAM	1	74	22.76	17.42	30	-12.58				
13	20173	1732.3	TOQAW	36	18	21.15	15.81	30	-14.19				
				75	0	21.19	15.85	30	-14.15				
				1	0	22.17	16.83	30	-13.17				
	20325	1747.5	16QAM	1	74	22.42	17.08	30	-12.92				
	20323	1747.5	10071111	36	18	21.23	15.89	30	-14.11				
				75	0	21.20	15.86	30	-14.14				
				1	0	22.90	17.56	30	-12.44				
	20025	1717.5	64QAM	1	74	22.76	17.42	30	-12.58				
	20020	1717.0	01071111	36	18	21.13	15.79	30	-14.21				
				75	0	21.26	15.92	30	-14.08				
				1	0	22.70	17.36	30	-12.64				
	20175	1732.5	64QAM	1	74	22.26	16.92	30	-13.08				
	20170	1,32.0	3 1 22 1111	36	18	21.12	15.78	30	-14.22				
				75	0	21.10	15.76	30	-14.24				
				1	0	22.72	17.38	30	-12.62				
	20325	1747.5	64QAM	1	74	22.38	17.04	30	-12.96				
				36	18	21.05	15.71	30	-14.29				
				75	0	21.04	15.70	30	-14.3				

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5 34 Antenna gain (dRi)

Antenna	gain (dBi)	-5.34	TE Rand / III	nlink f	raduano	cy band : 1710	to 1755 MHz		
		L	L Dailu 4_U			Conducted	EIRP	EIRP	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Average (dBm)	Average (dBm)	Limit (dBm)	Margin (dB)
				1	0	23.28	17.94	30	-12.06
				1	99	23.18	17.84	30	-12.16
	20050	1720	QPSK	50	25	22.17	16.83	30	-13.17
				100	0	22.21	16.87	30	-13.13
				1	0	23.23	17.89	30	-12.11
	00475	4700 5	00014	1	99	23.37	18.03	30	-11.97
	20175	1732.5	QPSK	50	25	22.06	16.72	30	-13.28
				100	0	22.10	16.76	30	-13.24
				1	0	23.23	17.89	30	-12.11
	00000	4745	ODOM	1	99	23.16	17.82	30	-12.18
	20300	1745	QPSK	50	25	22.15	16.81	30	-13.19
				100	0	22.18	16.84	30	-13.16
				1	0	22.91	17.57	30	-12.43
	20050	1700	1/0414	1	99	22.84	17.50	30	-12.5
	20050 1720	1720	16QAM	50	25	21.21	15.87	30	-14.13
				100	0	21.31	15.97	30	-14.03
			22.5 1/0414	1	0	22.79	17.45	30	-12.55
20	20175	1722 F		1	99	22.32	16.98	30	-13.02
20	20175	1732.5	16QAM	50	25	21.22	15.88	30	-14.12
				100	0	21.20	15.86	30	-14.14
				1	0	22.87	17.53	30	-12.47
	20300	1745	16QAM	1	99	22.43	17.09	30	-12.91
	20300	1743	TOQAW	50	25	21.25	15.91	30	-14.09
				100	0	21.23	15.89	30	-14.11
				1	0	22.75	17.41	30	-12.59
	20050	1720	64QAM	1	99	22.72	17.38	30	-12.62
	20000	1720	04QAIVI	50	25	21.15	15.81	30	-14.19
				100	0	21.24	15.90	30	-14.1
				1	0	22.77	17.43	30	-12.57
	20175	1732.5	64QAM	1	99	22.20	16.86	30	-13.14
	20173	1732.3	U4QAIVI	50	25	21.16	15.82	30	-14.18
				100	0	21.04	15.70	30	-14.3
	20300 1745		1	0	22.75	17.41	30	-12.59	
		64000	1	99	22.32	16.98	30	-13.02	
		64QAM	50	25	21.21	15.87	30	-14.13	
				100	0	21.18	15.84	30	-14.16

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Antenna	gain (dBi)	-4.74								
			LTE Band	d 5_Upl	ink frequency	band : 824 to				
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	EIRP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
(11112)	Gridinioi	(171112)				(dBm)	(dBm)	(dBm)		
				1	0	23.05	16.16	18.31		-20.14
	20407	824.7	QPSK	1	5	23.10	16.21	18.36		-20.09
				3	2	23.06	16.17	18.32		-20.13
				6	0	22.01	15.12	17.27		-21.18
				1	0	23.08	16.19	18.34		-20.11
	20525	836.5	QPSK	1	5	23.07	16.18	18.33	38.45	-20.12
	20020	000.0	QI OIX	3	2	23.08	16.19	18.34	38.45	-20.11
				6	0	22.10	15.21	17.36	38.45	-21.09
				1	0	23.25	16.36	18.51	38.45	-19.94
	20643	848.3	QPSK	1	5	23.17	16.28	18.43	38.45	-20.02
	20043	040.5	QI SIX	3	2	23.11	16.22	18.37	(dBm) (dBm) 38.45 -20 38.45	-20.08
				6	0	22.15	15.26	17.41	38.45	-21.04
				1	0	22.04	15.15	17.30	38.45	-21.15
	20407	824.7	16QAM	1	5	22.42	15.53	17.68	38.45	-20.77
	20407	024.7	TOQAIVI	3	2	21.97	15.08	17.23	38.45	-21.22
				6	0	21.04	14.15	16.30	38.45	-22.15
				1	0	22.43	15.54	17.69	38.45	-20.76
1.4	20525	836.5	16QAM	1	5	22.12	15.23	17.38	38.45	-21.07
1.4	20020	030.3	TOQAIVI	3	2	22.04	15.15	17.30	38.45	-21.15
				6	0	21.19	14.30	16.45	38.45	-22
				1	0	22.52	15.63	17.78	38.45	-20.67
	20643	848.3	16QAM	1	5	22.74	15.85	18.00	38.45	-20.45
	20043	040.3	TOQAIVI	3	2	22.11	15.22	17.37	38.45	-21.08
				6	0	21.07	14.18	16.33	38.45	-22.12
				1	0	22.51	15.62	17.77	38.45	-20.68
	20407	824.7	64QAM	1	5	22.37	15.48	17.63	38.45	-20.82
	∠∪4∪/	024.7	04QAIVI	3	2	21.09	14.20	16.35	38.45	-22.1
				6	0	21.02	14.13	16.28	38.45	-22.17
				1	0	22.63	15.74	17.89	38.45	-20.56
	20E2E	024 5	640011	1	5	22.44	15.55	17.70	38.45	-20.75
	20525	836.5	64QAM	3	2	21.19	14.30	16.45	38.45	-22
				6	0	21.15	14.26	16.41	38.45	-22.04
				1	0	22.50	15.61	17.76	38.45	-20.69
	207.42	040.0	(4000	1	5	22.32	15.43	17.58	38.45	-20.87
	20643	848.3	64QAM	3	2	21.11	14.22	16.37	38.45	-22.08
				6	0	21.06	14.17	16.32	38.45	-22.13

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Antenna	gain (dBi)	-4.74	I TE Band	d 5 Un	link froguency	band : 824 to	Q10 MU7			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.05	16.16	18.31	38.45	-20.14
				1	14	23.03	16.14	18.29	38.45	-20.16
	20415	825.5	QPSK	8	4	22.07	15.18	17.33		-21.12
				15	0	22.04	15.15	17.30	38.45	-21.15
				1	0	23.18	16.29	18.44	38.45	-20.01
	20525	027.5	ODCK	1	14	23.04	16.15	18.30	38.45	-20.15
	20525	836.5	QPSK	8	4	22.06	15.17	17.32	38.45	-21.13
				15	0	22.09	15.20	17.35	38.45	-21.1
				1	0	23.15	16.26	18.41	38.45	-20.04
	20/25	047.5	QPSK	1	14	23.17	16.28	18.43	38.45	-20.02
	20635	847.5	QPSK	8	4	22.19	15.30	17.45	38.45	-21
				15	0	22.15	15.26	17.41	38.45	-21.04
				1	0	22.46	15.57	17.72	38.45	-20.73
	20415	825.5	16QAM	1	14	22.50	15.61	17.76	38.45	-20.69
	20415	023.3	TOQAW	8	4	21.14	14.25	16.40	38.45	-22.05
				15	0	21.09	14.20	16.35	38.45	-22.1
				1	0	22.32	15.43	17.58	38.45	-20.87
3	20525	836.5	16QAM	1	14	22.12	15.23	17.38	38.45	-21.07
3	20323	030.3	TOQAW	8	4	21.18	14.29	16.44	38.45 38.45	-22.01
				15	0	21.08	14.19	16.34	38.45	-22.11
				1	0	22.39	15.50	17.65	38.45	-20.8
	20635	847.5	16QAM	1	14	22.13	15.24	17.39	38.45	-21.06
	20033	047.3	TOQAW	8	4	21.25	14.36	16.51	38.45	-21.94
				15	0	21.23	14.34	16.49	38.45	-21.96
				1	0	22.43	15.54	17.69	38.45	-20.76
	20415	825.5	64QAM	1	14	22.34	15.45	17.60	38.45	-20.85
	20413	023.3	OTQAIVI	8	4	21.08	14.19	16.34	38.45	-22.11
				15	0	21.03	14.14	16.29	38.45	-22.16
				1	0	22.62	15.73	17.88	38.45	-20.57
	20525	836.5	64QAM	1	14	22.39	15.50	17.65	38.45	-20.8
	20020	300.0	3 1 Q1 (IV)	8	4	21.10	14.21	16.36	38.45	-22.09
				15	0	21.13	14.24	16.39	38.45	-22.06
				1	0	22.48	15.59	17.74	38.45	-20.71
	20635	847.5	64QAM	1	14	22.33	15.44	17.59	38.45	-20.86
	20000	017.0	010/11/1	8	4	21.19	14.30	16.45	38.45	-22
				15	0	21.16	14.27	16.42	38.45	-22.03

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7 interina gain (abi)	Antenna ga	ain (dBi	-4.74
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Antenna	gain (dBi)	-4.74	LTED	J F 11 '	l'al e for	though 0041	040 1411-			
			LIEBan	a 5_Upl	link frequency	band: 824 to		FIDD	LIDD	
BW	UL	Frequency	Modulation	RB	RB	Conducted	ERP	EIRP	EIRP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average (dBm)	Average (dBm)	Average (dBm)	Limit (dBm)	(dB)
				1	0	23.06	16.17	18.32	38.45	-20.13
				1	24	23.05	16.17	18.31	38.45	-20.13
	20425	826.5	QPSK	12	6	22.15	15.26	17.41	38.45	-20.14
				25	0	22.13	15.22	17.41	38.45	-21.04
				1	0	23.13	16.24	18.39	38.45	-20.06
				1	24	23.33	16.44	18.59	38.45	-19.86
	20525	836.5	QPSK	12	6	22.15	15.26	17.41	38.45	-21.04
				25	0	22.10	15.21	17.41	38.45	-21.04
				1	0	23.05	16.16	18.31	38.45	-20.14
				1	24	23.13	16.24	18.39	38.45	-20.06
	20625	846.5	QPSK	12	6	22.16	15.27	17.42	38.45	-21.03
				25	0	22.24	15.35	17.50	38.45	-20.95
				1	0	22.30	15.41	17.56	38.45	-20.89
				1	24	22.17	15.28	17.43	38.45	-21.02
	20425	826.5	16QAM	12	6	21.31	14.42	16.57	38.45	-21.88
				25	0	21.12	14.23	16.38	38.45	-22.07
				1	0	22.34	15.45	17.60	38.45	-20.85
				1	24	22.44	15.55	17.70		
5	20525	836.5	16QAM	12	6	21.21	14.32	16.47		
				25	0	21.28	14.39	16.54	38.45 -20. 38.45 -21.	
				1	0	22.75	15.86	18.01	38.45 -20.75 38.45 -21.98 38.45 -21.91 38.45 -20.44	
				1	24	22.39	15.50	17.65	38.45	-20.8
	20625	846.5	16QAM	12	6	21.30	14.41	16.56	38.45	-21.89
				25	0	21.24	14.35	16.50	38.45	-21.95
				1	0	22.42	15.53	17.68	38.45	-20.77
	00.405	007.5	(40.414	1	24	22.33	15.44	17.59	38.45	-20.86
	20425	826.5	64QAM	12	6	21.05	14.16	16.31	38.45	-22.14
				25	0	21.03	14.14	16.29	38.45	-22.16
				1	0	22.60	15.71	17.86	38.45	-20.59
	20525	007.5	(4000	1	24	22.46	15.57	17.72	38.45	-20.73
	20525	836.5	64QAM	12	6	21.10	14.21	16.36	38.45	-22.09
				25	0	21.09	14.20	16.35	38.45	-22.1
				1	0	22.45	15.56	17.71	38.45	-20.74
	20/25	047.5	(40000	1	24	22.29	15.40	17.55	38.45	-20.9
	20625	846.5	64QAM	12	6	21.08	14.19	16.34	38.45	-22.11
				25	0	21.12	14.23	16.38	38.45	-22.07

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Antenna	gain (dBi)	-4.74								
			LTE Ban	d 5_Upl	ink frequency	band : 824 to	849 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average	ERP Average	EIRP Average	EIRP Limit	Margin (dB)
				1	0	(dBm)	(dBm)	(dBm)	(dBm)	20.04
				1	0	23.15	16.26	18.41	38.45	-20.04
	20450	829	QPSK	1 25	49 12	23.03 22.02	16.14 15.13	18.29 17.28	38.45 38.45	-20.16 -21.17
				50	0	22.02	15.13	17.28		-21.17
				1	0	23.26	16.37	18.52		
				1	49	23.32	16.43	18.58		
	20525	836.5	QPSK	25	12	22.11	15.22	17.37	1	
				50	0	22.11	15.24	17.37		
				1	0	23.45	16.56	18.71		
				1	49	23.39	16.50	18.65		
	20600	844	QPSK	25	12	22.21	15.32	17.47	-	
				50	0	22.21	15.32	17.47	38.45 -20.98 38.45 -20.67	
				1	0	22.52	15.63	17.78		45 -19.87 45 -21.08 45 -21.06 45 -19.74 45 -19.8 45 -20.98 45 -20.98 45 -20.67 45 -20.8 45 -22.18 45 -22.16 45 -20.53 45 -20.66 45 -21.9 45 -20.62 45 -20.83 45 -21.95
				1	49	22.39	15.50	17.65		
	20450	829	16QAM	25	12	21.01	14.12	16.27		
				50	0	21.03	14.14	16.29	38.45 38.45	
				1	0	22.66	15.77	17.92		
				1	49	22.53	15.64	17.79		
10	20525	836.5	16QAM	25	12	21.29	14.40	16.55		
				50	0	21.16	14.27	16.42	1	
				1	0	22.57	15.68	17.83	38.45	-20.62
	207.00	0.4.4	1/0414	1	49	22.36	15.47	17.62	38.45	-20.83
	20600	844	16QAM	25	12	21.24	14.35	16.50	38.45	-21.95
				50	0	21.25	14.36	16.51	38.45	-21.94
				1	0	22.33	15.44	17.59	38.45	-20.86
	20450	829	64QAM	1	49	22.30	15.41	17.56	38.45	-20.89
	20400	029	04QAIVI	25	12	21.04	14.15	16.30	38.45	-22.15
				50	0	21.06	14.17	16.32	38.45	-22.13
				1	0	22.61	15.72	17.87	38.45	-20.58
	20525	836.5	64QAM	1	49	22.39	15.50	17.65	38.45	-20.8
	20323	030.3	04QAIVI	25	12	21.17	14.28	16.43	38.45	-22.02
				50	0	21.07	14.18	16.33	38.45	-22.12
				1	0	22.56	15.67	17.82	38.45	-20.63
	20600	844	64∩ΔM	1	49	22.20	15.31	17.46	38.45	-20.99
	20000	U 44	64QAM	25	12	21.21	14.32	16.47	38.45	-21.98
				50	0	21.23	14.34	16.49	38.45	-21.96

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Antenna gain (dRi) .3 15

Antenna	gain (dBi)	-3.15	TF Band 7 II	nlink f	requenc	cy band : 2500	to 2570 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.35	20.20	33	-12.8
	20775	2502.5	QPSK	1	24	23.31	20.16	33	-12.84
	20773	2302.3	QF3K	12	6	22.27	19.12	33	-13.88
				25	0	22.28	19.13	33	-13.87
				1	0	22.95	19.80	33	-13.2
	21100	2535	QPSK	1	24	23.10	19.95	33	-13.05
	21100	2555	QF3K	12	6	21.88	18.73	33	-14.27
				25	0	21.94	18.79	33	-14.21
				1	0	22.71	19.56	33	-13.44
	21375	2567.5	QPSK	1	24	22.74	19.59	33	-13.41
	21373	2307.3	QF3K	12	6	21.68	18.53	33	-14.47
				25	0	21.69	18.54	33	-14.46
20775 2502			1	0	22.57	19.42	33	-13.58	
	20775	2502.5	16QAM	1	24	22.98	19.83	33	-13.17
	20113	2302.3	TOQAW	12	6	21.33	18.18	33	-14.82
				25	0	21.25	18.10	33	-14.9
				1	0	22.01	18.86	33	-14.14
5	21100	2535	16QAM	1	24	22.28	19.13	33	-13.87
5	21100	2555	TOQAW	12	6	20.93	17.78	33	-15.22
				25	0	20.88	17.73	33	-15.27
			16QAM	1	0	21.70	18.55	33	-14.45
	21375	2567.5		1	24	21.87	18.72	33	-14.28
	21373	2307.3	TOQAW	12	6	20.72	17.57	33	-15.43
				25	0	20.73	17.58	33	-15.42
				1	0	22.44	19.29	33	-13.71
	20775	2502.5	64QAM	1	24	22.28	19.13	33	-13.87
	20113	2302.3	04QAIVI	12	6	21.30	18.15	33	-14.85
				25	0	21.54	18.39	33	-14.61
				1	0	22.27	19.12	33	-13.88
	21100	2535	64QAM	1	24	22.53	19.38	33	-13.62
	21100	2330	U4QAIVI	12	6	21.12	17.97	33	-15.03
				25	0	21.25	18.10	33	-14.9
				1	0	22.65	19.50	33	-13.5
	21375	2567.5	64QAM	1	24	22.14	18.99	33	-14.01
	213/3	2307.3	UHQAIVI	12	6	20.95	17.80	33	-15.2
				25	0	20.98	17.83	33	-15.17

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Antonna gain (dRi) 2 15

Antenna	gain (dBi)	-3.15 L	TE Band 7 U	plink f	requenc	cy band : 2500	to 2570 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.59	20.44	33	-12.56
	20000	٦٢٥٢	ODCK	1	49	23.56	20.41	33	-12.59
	20800	2505	QPSK	25	12	22.61	19.46	33	-13.54
				50	0	22.65	19.50	33	-13.5
				1	0	23.34	20.19	33	-12.81
	21100	2535	QPSK	1	49	23.31	20.16	33	-12.84
	21100	2030	UPSK	25	12	22.26	19.11	33	-13.89
				50	0	22.26	19.11	33	-13.89
				1	0	22.97	19.82	33	-13.18
	21350	2565	QPSK	1	49	23.00	19.85	33	-13.15
	21330	2000	QP3K	25	12	21.93	18.78	33	(dB) -12.56 -12.59 -13.54 -13.5 -12.81 -12.84 -13.89 -13.89 -13.18 -13.15 -14.22 -14.18 -13.27 -14.56 -14.56 -14.56 -14.44 -13.42 -14.84 -14.83 -13.92 -14.06 -15.23 -15.15 -13.83 -13.93 -14.72 -14.63 -13.87 -13.61
				50	0	21.97	18.82	33	-14.18
				1	0	22.88	19.73	33	-13.27
	20000	SEGE	140011	1	49	22.68	19.53	33	-13.47
	20800	2505	16QAM	25	12	21.59	18.44	33	-14.56
				50	0	21.59	18.44	33	-14.56
				1	0	22.71	19.56	33	-13.44
10	21100	2525	1/0414	1	49	22.73	19.58	33	-13.42
10	21100	2535	16QAM	25	12	21.31	18.16	33	(dB) -12.56 -12.59 -13.54 -13.5 -12.81 -12.84 -13.89 -13.18 -13.15 -14.22 -14.18 -13.27 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -15.23 -15.15 -13.83 -13.93 -14.72 -14.63 -13.61
				50	0	21.32	18.17	33	-14.83
				1	0	22.23	19.08	33	-13.92
	21250	25/5	1/0004	1	49	22.09	18.94	33	-14.06
	21350	2565	16QAM	25	12	20.92	17.77	33	-13.5 -12.81 -12.84 -13.89 -13.89 -13.18 -13.15 -14.22 -14.18 -13.27 -13.47 -14.56 -14.56 -14.56 -13.44 -13.42 -14.84 -14.83 -13.92 -14.06 -15.23 -15.15 -13.83 -13.93 -14.72 -14.63 -13.87 -13.61 -14.98 -15.06 -13.58 -14.13 -15.25
				50	0	21.00	17.85	33	-15.15
				1	0	22.32	19.17	33	-13.83
	20000	2505	(40014	1	49	22.22	19.07	33	-13.93
	20800	2505	64QAM	25	12	21.43	18.28	33	-14.72
				50	0	21.52	18.37	33	-14.63
				1	0	22.28	19.13	33	-13.87
	21100	٦٢٦٢	/ 40 0 0 0	1	49	22.54	19.39	33	-13.61
	21100	2535	64QAM	25	12	21.17	18.02	33	-14.98
				50	0	21.09	17.94	33	-15.06
				1	0	22.57	19.42	33	-13.58
	01050	25/5	/ 40 00 0	1	49	22.02	18.87	33	-14.13
	21350	2565	64QAM	25	12	20.90	17.75	33	
				50	0	20.90	17.75	33	-15.25

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Antenna	gain (dBi)	-3.15 I	3.15 LTE Band 7_Uplink frequency band : 2500 to 2570 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)				
				1	0	23.44	20.29	33	-12.71				
	20825	2507.5	ODCIV	1	74	23.45	20.30	33	-12.7				
	20023	2307.3	QPSK	36	18	22.63	19.48	33	-13.52				
				75	0	22.64	19.49	33	-13.51				
				1	0	23.21	20.06	33	-12.94				
	21100	2535	QPSK	1	74	23.32	20.17	33	-12.83				
	21100	2030	QP3K	36	18	22.25	19.10	33	-13.9				
				75	0	22.29	19.14	33	-13.86				
				1	0	23.00	19.85	33	-13.15				
	21275	2542.5	ODCIV	1	74	23.03	19.88	33	-13.12				
	21375	2562.5	QPSK	36	18	22.02	18.87	33	-14.13				
				75	0	22.06	18.91	33	-14.09				
20825 2507.5		1	0	22.96	19.81	33	-13.19						
	2507.5	1/001	1	74	22.58	19.43	33	-13.57					
	20825	2507.5	16QAM	36	18	21.63	18.48	33	-14.52 -14.5				
				75	0	21.65	18.50	33	-14.5				
				1	0	22.27	19.12	33	-13.88				
45	21100	2525	1/0004	1	74	22.45	19.30	33	-13.7				
15	21100	2535	16QAM	36	18	21.18	18.03	33	-14.97				
				75	0	21.27	18.12	33	-14.88				
				1	0	22.43	19.28	33	-13.72				
	04075	25/25	1/0004	1	74	22.01	18.86	33	-14.14				
	21375	2562.5	16QAM	36	18	21.05	17.90	33	-12.7 -13.52 -13.51 -12.94 -12.83 -13.9 -13.86 -13.15 -13.12 -14.13 -14.09 -13.19 -13.57 -14.52 -14.5 -13.88 -13.7 -14.97 -14.88 -13.72				
				75	0	21.06	17.91	33	-15.09				
				1	0	22.42	19.27	33	-13.73				
	00005	0507.5	(40004	1	74	22.20	19.05	33	-13.95				
	20825	2507.5	64QAM	36	18	21.38	18.23	33	-14.77				
				75	0	21.39	18.24	33	-13.52 -13.51 -12.94 -12.83 -13.9 -13.86 -13.15 -13.12 -14.13 -14.09 -13.19 -13.57 -14.52 -14.5 -13.88 -13.7 -14.97 -14.88 -13.72 -14.14 -15.1 -15.09 -13.73 -13.95 -14.77 -14.76 -13.89 -13.67 -14.98 -14.98 -13.54 -13.98 -15.23				
				1	0	22.26	19.11	33	-13.89				
	04400	0505	(4044	1	74	22.48	19.33	33					
	21100	2535	64QAM	36	18	21.17	18.02	33					
				75	0	21.20	18.05	33					
				1	0	22.61	19.46	33					
	04077	05/0-	,,,,,,,,	1	74	22.17	19.02	33					
	21375	2562.5	64QAM	36	18	20.92	17.77	33	-13.89 -13.67 -14.98 -14.95 -13.54 -13.98				
				75	0	20.86	17.71	33					

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Antenna	gain (dBi)	-3.15 L	TE Band 7 U	plink f	regueno	cy band : 2500	to 2570 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.63	20.48	33	(dB) -12.52 -12.98 -13.6 -13.55 -12.83 -12.81 -13.94 -13.93 -12.93 -13.27 -14.15 -14.09 -13.7 -13.76 -14.68 -14.6 -13.81 -13.48 -14.93 -14.86 -13.5 -13.93 -15.13 -15.11 -13.71 -13.93 -14.68 -14.67 -13.86 -13.64 -15.04 -15 -13.69 -14.12
	20850	2510	QPSK	1	99	23.17	20.02	33	-12.98
	20000	2310	UPSK	50	25	22.55	19.40	33	-13.6
				100	0	22.60	19.45	33	-13.55
				1	0	23.32	20.17	33	-12.83
	21100	2535	QPSK	1	99	23.34	20.19	33	-12.81
	21100	2000	QF3K	50	25	22.21	19.06	33	-13.94
				100	0	22.22	19.07	33	-13.93
				1	0	23.22	20.07	33	-12.93
	21350	2560	QPSK	1	99	22.88	19.73	33	-13.27
	21330	2300	UPSK	50	25	22.00	18.85	33	-14.15
				100	0	22.06	18.91	33	-14.09
				1	0	22.45	19.30	33	-13.7
	20850	2510	16QAM	1	99	22.39	19.24	33	-13.76
	20000	2310	TOQAIVI	50	25	21.47	18.32	33	-14.68
				100	0	21.55	18.40	33	-14.6
				1	0	22.34	19.19	33	-13.81
20	21100	2535	16QAM	1	99	22.67	19.52	33	-13.48
20	21100	2000	TOQAW	50	25	21.22	18.07	33	-12.52 -12.98 -13.6 -13.55 -12.83 -12.81 -13.94 -13.93 -12.93 -13.27 -14.15 -14.09 -13.7 -13.76 -14.68 -14.6 -13.81 -13.48 -14.93 -14.86 -13.5 -13.93 -15.13 -15.11 -13.71 -13.93 -14.68 -14.67 -13.86 -14.67 -13.86 -13.64 -15.04 -15 -13.69 -14.12 -15.27
				100	0	21.29	18.14	33	-14.86
			16QAM	1	0	22.65	19.50	33	-13.5
	21350	2560		1	99	22.22	19.07	33	-13.93
	21330	2500	TOQAW	50	25	21.02	17.87	33	-15.13
				100	0	21.04	17.89	33	-15.11
				1	0	22.44	19.29	33	-13.71
	20850	2510	64QAM	1	99	22.22	19.07	33	-13.93
	20000	2310	04QAIVI	50	25	21.47	18.32	33	-14.68
				100	0	21.48	18.33	33	-14.67
				1	0	22.29	19.14	33	-13.86
	21100	2535	64QAM	1	99	22.51	19.36	33	-13.64
	21100	2000	04QAIVI	50	25	21.11	17.96	33	-15.04
				100	0	21.15	18.00	33	-15
				1	0	22.46	19.31	33	-13.69
	21350	2560	64QAM	1	99	22.03	18.88	33	-14.12
	21330	2300	04QAIVI	50	25	20.88	17.73	33	-15.27
				100	0	20.93	17.78	33	-15.22

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Antenna	gain (dBi)	-5.86	. ===							
	_		LTE Band	l 12_Up	link frequenc	y band : 699 to				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.69	14.68	16.83	34.77	-17.94
	22017	/ OO 7	ODCK	1	5	22.56	14.55	16.70	34.77	-18.07
	23017	699.7	QPSK	3	2	22.62	14.61	16.76	34.77	-18.01
				6	0	21.65	13.64	15.79	34.77	-18.98
				1	0	22.79	14.78	16.93	34.77	-17.84
	23095	707.5	QPSK	1	5	22.88	14.87	17.02	34.77	-17.75
	23093	707.5	QF3K	3	2	22.77	14.76	16.91	34.77	-17.86
				6	0	21.81	13.80	15.95	34.77	-18.82
				1	0	23.19	15.18	17.33	34.77	-17.44
	23173	715.5	QPSK	1	5	23.18	15.17	17.32	34.77	-17.45
	231/3	710.0	QPSK	3	2	22.95	14.94	17.09	34.77	-17.68
				6	0	22.29	14.28	16.43	34.77	-18.34
				1	0	21.69	13.68	15.83	34.77	-18.94
	23017	699.7	16QAM	1	5	22.00	13.99	16.14	34.77	-18.63
	23017	099.7	TOQAW	3	2	21.78	13.77	15.92	34.77	-18.85
				6	0	20.54	12.53	14.68	34.77	-20.09
				1	0	21.55	13.54	15.69	34.77	-19.08
1.4	23095	707.5	16OAM	1	5	22.10	14.09	16.24	34.77	-18.53
1.4	23093	707.5	16QAM	3	2	21.89	13.88	16.03	34.77	-18.74
				6	0	20.85	12.84	14.99	34.77	-19.78
				1	0	22.30	14.29	16.44	34.77	-18.33
	23173	715.5	16QAM	1	5	22.90	14.89	17.04	34.77	-17.73
	23173	710.0	TOQAW	3	2	21.96	13.95	16.10	34.77	-18.67
				6	0	21.18	13.17	15.32	34.77	-19.45
				1	0	22.04	14.03	16.18	34.77	-18.59
	23017	699.7	64QAM	1	5	22.46	14.45	16.60	34.77	-18.17
	23017	077.7	04QAIVI	3	2	21.06	13.05	15.20	34.77	-19.57
				6	0	21.04	13.03	15.18	34.77	-19.59
				1	0	22.41	14.40	16.55	34.77	-18.22
	23095	707.5	64QAM	1	5	22.37	14.36	16.51	34.77	-18.26
	23070	101.5	U4QAIVI	3	2	20.96	12.95	15.10	34.77	-19.67
				6	0	21.00	12.99	15.14	34.77	-19.63
				1	0	22.58	14.57	16.72	34.77	-18.05
	23173	715.5	640011	1	5	22.89	14.88	17.03	34.77	-17.74
	231/3	7 10.0	64QAM	3	2	21.18	13.17	15.32	34.77	-19.45
				6	0	21.13	13.12	15.27	34.77	-19.5

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Antenna	gain (dBi)	-5.86								
			LTE Band	12_Up	link frequency	y band : 699 to			1	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.59	14.58	16.73	34.77	-18.04
	22025	700 F	QPSK	1	14	22.61	14.60	16.75	34.77	-18.02
	23025	700.5	QP3K	8	4	21.60	13.59	15.74	34.77	-19.03
				15	0	21.60	13.59	15.74	34.77	-19.03
				1	0	22.81	14.80	16.95	34.77	-17.82
	23095	707.5	QPSK	1	14	22.82	14.81	16.96	34.77	-17.81
	23093	707.5	QF3K	8	4	21.86	13.85	16.00	34.77	-18.77
				15	0	21.85	13.84	15.99	34.77	-18.78
				1	0	23.15	15.14	17.29	34.77	-17.48
	23165	714.5	QPSK	1	14	23.16	15.15	17.30	34.77	-17.47
	23100	714.5	QPSK	8	4	22.20	14.19	16.34	34.77	-18.43
				15	0	22.13	14.12	16.27	34.77	-18.5
				1	0	21.48	13.47	15.62	34.77	-19.15
	23025	700.5	16QAM	1	14	21.60	13.59	15.74	34.77	-19.03
	23023	700.5	TOQAW	8	4	20.67	12.66	14.81	34.77	-19.96
				15	0	20.73	12.72	14.87	34.77 34.77 34.77 34.77 34.77 34.77 34.77 34.77 34.77 34.77 34.77 34.77 34.77 34.77	-19.9
				1	0	22.16	14.15	16.30	34.77	-18.47
3	23095	707.5	16OAM	1	14	22.22	14.21	16.36	34.77	-18.41
3	23093	707.5	16QAM	8	4	21.00	12.99	15.14	34.77	-19.63
				15	0	20.89	12.88	15.03	34.77 -19.9 34.77 -18.47 34.77 -18.41 34.77 -19.63 34.77 -19.74 34.77 -18.45	-19.74
				1	0	22.18	14.17	16.32	34.77	-18.45
	23165	714.5	16QAM	1	14	22.34	14.33	16.48	34.77	-18.29
	23100	714.5	TOQAW	8	4	21.03	13.02	15.17	34.77	-19.6
				15	0	21.15	13.14	15.29	34.77	-19.48
				1	0	22.04	14.03	16.18	34.77 34.77	-18.59
	23025	700.5	64QAM	1	14	22.39	14.38	16.53	34.77	-18.24
	23023	700.5	04QAIVI	8	4	21.13	13.12	15.27	34.77	-19.5
				15	0	21.02	13.01	15.16	34.77	-19.61
				1	0	22.44	14.43	16.58	34.77	-18.19
	23095	707.5	64QAM	1	14	22.53	14.52	16.67	34.77	-18.1
	23070	101.5	UHQAIVI	8	4	21.04	13.03	15.18	34.77	-19.59
				15	0	20.97	12.96	15.11	34.77	-19.66
				1	0	22.66	14.65	16.80	34.77	-17.97
	23165	714.5	64QAM	1	14	22.84	14.83	16.98	34.77	-17.79
	23100	7 14.0	U4QAIVI	8	4	21.10	13.09	15.24	34.77	-19.53
				15	0	21.14	13.13	15.28	34.77	-19.49

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Antenna	gain (dBi)	-5.86								
			LTE Band	12_Up	link frequency	y band : 699 to				
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	EIRP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
		, ,		1	0	(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	22.51	14.50	16.65	34.77	-18.12
	23035	701.5	QPSK	1	24	22.81	14.80	16.95	34.77	-17.82
				12	6	21.84	13.83	15.98	34.77	-18.79
				25	0	21.79	13.78	15.93	34.77	-18.84
				1	0	22.97	14.96	17.11	34.77	-17.66
	23095	23095 707.5	QPSK	1	24	22.96	14.95	17.10	34.77	-17.67
			12	6	22.08	14.07	16.22	34.77	-18.55	
				25	0	21.96	13.95	16.10	34.77	-18.67
				1	0	22.83	14.82	16.97	34.77	-17.8
	23155	713.5	QPSK	1	24	23.62	15.61	17.76	34.77	-17.01
				12	6	22.27	14.26	16.41	34.77	-18.36
				25	0	22.17	14.16	16.31	34.77	-18.46
		701.5	16QAM	1	0	22.01	14.00	16.15	34.77	-18.62
	23035			1	24	22.14	14.13	16.28	34.77	-18.49
				12	6	20.83	12.82	14.97	34.77	-19.8
				25	0	20.86	12.85	15.00	34.77	-19.77
			16QAM	1	0	22.36	14.35	16.50	34.77	-18.27
5	23095	707.5		1	24	21.90	13.89	16.04	34.77	-18.73
	20070			12	6	21.09	13.08	15.23	34.77	-19.54
				25	0	21.11	13.10	15.25	34.77	-19.52
		713.5	16QAM	1	0	22.14	14.13	16.28	34.77	-18.49
	23155			1	24	22.34	14.33	16.48	34.77	-18.29
	20100	710.0		12	6	21.23	13.22	15.37	34.77	-19.4
				25	0	21.19	13.18	15.33	34.77	-19.44
				1	0	22.05	14.04	16.19	34.77	-18.58
	23035	701.5	64QAM	1	24	22.33	14.32	16.47	34.77	-18.3
	23033	701.3	04UAIVI	12	6	20.97	12.96	15.11	34.77	-19.66
				25	0	21.03	13.02	15.17	34.77	-19.6
				1	0	22.42	14.41	16.56	34.77	-18.21
	23095	707.5	64QAM	1	24	22.51	14.50	16.65	34.77	-18.12
	23073	707.3	04QAIVI	12	6	21.01	13.00	15.15	34.77	-19.62
				25	0	20.95	12.94	15.09	34.77	-19.68
				1	0	22.51	14.50	16.65	34.77	-18.12
	22155	710 5	6 A O A B A	1	24	22.74	14.73	16.88	34.77	-17.89
	23155	713.5	64QAM	12	6	21.24	13.23	15.38	34.77	-19.39
				25	0	21.19	13.18	15.33	34.77	-19.44

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Antenna gain (dRi)

5 86

Tintorina	gain (dBi)	-5.86	LTE Band	l 12_Up	olink frequenc	y band : 699 to	716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
			ODCK	1	0	23.05	15.04	17.19	34.77	-17.58
	22070	704		1	49	23.46	15.45	17.60	34.77	-17.17
	23060	704	QPSK	25	12	21.86	13.85	16.00	34.77	-18.77
				50	0	21.89	13.88	16.03	34.77	-18.74
				1	0	23.20	15.19	17.34	34.77	-17.43
	23095	707.5	QPSK	1	49	23.37	15.36	17.51	34.77	-17.26
	23095	707.5	QPSK	25	12	21.88	13.87	16.02	34.77	-18.75
				50	0	21.86	13.85	16.00	34.77	-18.77
				1	0	23.23	15.22	17.37	34.77	-17.4
	23130	711	ODCK	1	49	23.63	15.62	17.77	34.77	-17
23130	711	QPSK	25	12	21.97	13.96	16.11	34.77	-18.66	
			50	0	22.03	14.02	16.17	34.77	-18.6	
	20042		16QAM	1	0	22.01	14.00	16.15	34.77	-18.62
		704		1	49	22.28	14.27	16.42	34.77	-18.35
	23060			25	12	20.96	12.95	15.10	34.77	-19.67
				50	0	20.88	12.87	15.02	34.77	-19.75
			16QAM	1	0	22.26	14.25	16.40	34.77	-18.37
10	00005	707.5		1	49	22.36	14.35	16.50	34.77	-18.27
10	23095			25	12	20.91	12.90	15.05	34.77	-19.72
				50	0	20.85	12.84	14.99	34.77	-19.78
		711	16QAM	1	0	22.47	14.46	16.61	34.77	-18.16
	22120			1	49	22.74	14.73	16.88	34.77	-17.89
	23130			25	12	21.09	13.08	15.23	34.77	-19.54
				50	0	21.10	13.09	15.24	34.77	-19.53
				1	0	22.12	14.11	16.26	34.77	-18.51
	22070	704	(4000	1	49	22.33	14.32	16.47	34.77	-18.3
	23060	704	64QAM	25	12	21.03	13.02	15.17	34.77	-19.6
				50	0	20.97	12.96	15.11	34.77	-19.66
				1	0	22.41	14.40	16.55	34.77	-18.22
	22005	3095 707.5	(4000	1	49	22.38	14.37	16.52	34.77	-18.25
	23095		64QAM	25	12	21.08	13.07	15.22	34.77	-19.55
				50	0	21.04	13.03	15.18	34.77	-19.59
				1	0	22.65	14.64	16.79	34.77	-17.98
	22422	744	(4000	1	49	22.79	14.78	16.93	34.77	-17.84
	23130	711	64QAM	25	12	21.14	13.13	15.28	34.77	-19.49
				50	0	21.15	13.14	15.29	34.77	-19.48

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Antenna	gain (dBi)	-5.04		146 ==						
			LTE Band	113_U	plink fre		: 777 to 787 M		=:55	
BW	UL	Frequency	Modulation	RB	RB	Conducted Average	ERP Average	EIRP Average	EIRP Limit	Margin
(MHz)	Channel	(MHz)	Woddiation	Size	Offset	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
				1	0	23.06	15.87	18.02	34.77	-16.75
				1	24	23.05	15.86	18.01	34.77	-16.76
	23205	779.5	QPSK	12	6	22.15	14.96	17.11	34.77	-17.66
				25	0	22.11	14.92	17.07	34.77	-17.7
				1	0	23.13	15.94	18.09	34.77	-16.68
				1	24	23.33	16.14	18.29	34.77	-16.48
	23230	30 782	QPSK	12	6	22.15	14.96	17.11	34.77	-17.66
				25	0	22.10	14.91	17.06	34.77	-17.71
				1	0	23.05	15.86	18.01	34.77	-16.76
	22255	70.45	0.501/	1	24	23.13	15.94	18.09	34.77	-16.68
	23255	784.5	QPSK	12	6	22.16	14.97	17.12	34.77	-17.65
				25	0	22.24	15.05	17.20	34.77	-17.57
			16QAM	1	0	22.30	15.11	17.26	34.77	-17.51
	22205	779.5		1	24	22.17	14.98	17.13	34.77	-17.64
	23205			12	6	21.31	14.12	16.27	34.77	-18.5
				25	0	21.12	13.93	16.08	34.77	-18.69
			16QAM	1	0	22.34	15.15	17.30	34.77	-17.47
5	23230	782		1	24	22.44	15.25	17.40	34.77	-17.37
3	23230	762		12	6	21.21	14.02	16.17	34.77	-18.6
				25	0	21.28	14.09	16.24	34.77	-18.53
				1	0	22.75	15.56	17.71	34.77	-17.06
	23255	784.5	16QAM	1	24	22.39	15.20	17.35	34.77	-17.42
	23233	764.3		12	6	21.30	14.11	16.26	34.77	-18.51
				25	0	21.24	14.05	16.20	34.77	-18.57
				1	0	22.12	14.93	17.08	34.77	-17.69
	23205	779.5	64QAM	1	24	22.05	14.86	17.01	34.77	-17.76
	23203	777.5	UTQAW	12	6	21.23	14.04	16.19	34.77	-18.58
				25	0	21.00	13.81	15.96	34.77	-18.81
				1	0	22.32	15.13	17.28	34.77	-17.49
	23230	782	64QAM	1	24	22.43	15.24	17.39	34.77	-17.38
	20200	782	OTQAM	12	6	21.18	13.99	16.14	34.77	-18.63
				25	0	21.15	13.96	16.11	34.77	-18.66
				1	0	22.73	15.54	17.69	34.77	-17.08
	23255	784.5	64QAM	1	24	22.30	15.11	17.26	34.77	-17.51
	20200	784.3	0 1 Q/ 11VI	12	6	21.17	13.98	16.13	34.77	-18.64
				25	0	21.14	13.95	16.10	34.77	-18.67

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Antenna gain (dBi) -5.04

	gaiii (abi)		LTE Band	13_U	plink fre	equency band	: 777 to 787 M	Hz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
23230 78			1	0	23.22	16.03	18.18	34.77	-16.59	
	782	QPSK	1	49	23.39	16.20	18.35	34.77	-16.42	
	702	UPSK	25	12	22.42	15.23	17.38	34.77	-17.39	
				50	0	22.55	15.36	17.51	34.77	-17.26
		782	16QAM	1	0	22.59	15.40	17.55	34.77	-17.22
10	23230			1	49	22.38	15.19	17.34	34.77	-17.43
10	23230			25	12	21.56	14.37	16.52	34.77	-18.25
				50	0	21.47	14.28	16.43	34.77	-18.34
				1	0	22.44	15.25	17.40	34.77	-17.37
	23230	782	64QAM	1	49	22.33	15.14	17.29	34.77	-17.48
	23230	782	04QAIVI	25	12	21.48	14.29	16.44	34.77	-18.33
				50	0	21.37	14.18	16.33	34.77	-18.44

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Antenna	gain (dBi)	-7.23								
			LTE Band	114_U	plink fre	equency band			=:55	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
			0.001/	1	0	23.49	16.30	18.45	34.77	-16.32
	00005	700 5		1	24	23.49	16.30	18.45	34.77	-16.32
	23305	790.5	QPSK	12	6	22.58	15.39	17.54	34.77	-17.23
				25	0	22.50	15.31	17.46	34.77	-17.31
				1	0	23.40	16.21	18.36	34.77	-16.41
	22220	700	ODCK	1	24	23.40	16.21	18.36	34.77	-16.41
	23330	793	QPSK	12	6	22.54	15.35	17.50	34.77	-17.27
				25	0	22.56	15.37	17.52	34.77	-17.25
22255		705.5		1	0	23.53	16.34	18.49	34.77	-16.28
	22255		QPSK	1	24	23.33	16.14	18.29	34.77	-16.48
	23355 795.5	795.5	QPSK	12	6	22.43	15.24	17.39	34.77	-17.38
				25	0	22.45	15.26	17.41	34.77	-17.36
			1	0	22.92	15.73	17.88	34.77	-16.89	
	22205	790.5	16QAM	1	24	22.71	15.52	17.67	34.77	-17.1
	23305			12	6	21.37	14.18	16.33	34.77	-18.44
				25	0	21.45	14.26	16.41	34.77	-18.36
			16QAM	1	0	22.89	15.70	17.85	34.77	-16.92
Е	23330	793		1	24	22.17	14.98	17.13	34.77	-17.64
5	23330			12	6	21.56	14.37	16.52	34.77	-18.25
				25	0	21.49	14.30	16.45	34.77	-18.32
		795.5		1	0	22.63	15.44	17.59	34.77	-17.18
	23355		16QAM	1	24	22.65	15.46	17.61	34.77	-17.16
	23300			12	6	21.32	14.13	16.28	34.77	-18.49
				25	0	21.31	14.12	16.27	34.77	-18.5
				1	0	22.92	15.73	17.88	34.77	-16.89
	23305	790.5	64QAM	1	24	22.66	15.47	17.62	34.77	-17.15
	23300	790.3	04QAIVI	12	6	21.18	13.99	16.14	34.77	-18.63
				25	0	21.33	14.14	16.29	34.77	-18.48
				1	0	22.73	15.54	17.69	34.77	-17.08
	23330	793	64QAM	1	24	21.98	14.79	16.94	34.77	-17.83
	23330	173	04QAIVI	12	6	21.49	14.30	16.45	34.77	-18.32
				25	0	21.30	14.11	16.26	34.77	-18.51
				1	0	22.57	15.38	17.53	34.77	-17.24
	23355	795.5	64QAM	1	24	22.50	15.31	17.46	34.77	-17.31
	23333	770.0	04QAIVI	12	6	21.31	14.12	16.27	34.77	-18.5
				25	0	21.14	13.95	16.10	34.77	-18.67

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Antenna gain (dBi) -7.23

			LTE Band	l 14_U	plink fre	quency band	: 788 to 798 M	Hz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
			1	0	23.72	16.53	18.68	34.77	-16.09	
	23330 793	702	QPSK	1	49	23.51	16.32	18.47	34.77	-16.3
		193	UPSK	25	12	22.77	15.58	17.73	34.77	-17.04
				50	0	22.68	15.49	17.64	34.77	-17.13
		793	16QAM	1	0	22.89	15.70	17.85	34.77	-16.92
10	23330			1	49	22.35	15.16	17.31	34.77	-17.46
10	23330			25	12	21.67	14.48	16.63	34.77	-18.14
				50	0	21.61	14.42	16.57	34.77	-18.2
				1	0	22.73	15.54	17.69	34.77	-17.08
	23330	793	64QAM	1	49	22.21	15.02	17.17	34.77	-17.6
	23330	193	64QAIVI	25	12	21.59	14.40	16.55	34.77	-18.22
				50	0	21.51	14.32	16.47	34.77	-18.3

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Antenna	gain (dBi)	-5.86								
			LTE Band	l 17_Up	link frequency	y band : 704 to			_	-
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	EIRP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
,		· /				(dBm)	(dBm)	(dBm)	(dBm)	, , ,
			QPSK	1	0	22.87	14.86	17.01	34.77	-17.76
	23755	706.5		1	24	23.30	15.29	17.44	34.77	-17.33
				12	6	21.90	13.89	16.04	34.77	-18.73
				25	0	21.95	13.94	16.09	34.77	-18.68
				1	0	22.65	14.64	16.79	34.77	-17.98
	23790	710	QPSK	1	24	23.37	15.36	17.51	34.77	-17.26
				12	6	21.89	13.88	16.03	34.77	-18.74
				25	0	22.05	14.04	16.19	34.77	-18.58
				1	0	22.81	14.80	16.95	34.77	-17.82
	23825	713.5	QPSK	1	24	23.45	15.44	17.59	34.77	-17.18
	23755	710.0	QI SIX	12	6	22.03	14.02	16.17	34.77	-18.6
				25	0	22.08	14.07	16.22	34.77	-18.55
		706.5	16QAM	1	0	22.09	14.08	16.23	34.77	-18.54
				1	24	22.30	14.29	16.44	34.77	-18.33
	23733			12	6	21.11	13.10	15.25	34.77	-19.52
				25	0	20.94	12.93	15.08	34.77	-19.69
			16QAM	1	0	22.12	14.11	16.26	34.77	-18.51
5	23790	710		1	24	22.44	14.43	16.58	34.77	-18.19
3	23770			12	6	20.95	12.94	15.09	34.77	-19.68
				25	0	20.93	12.92	15.07	34.77	-19.7
		713.5	16QAM	1	0	22.23	14.22	16.37	34.77	-18.4
	23825			1	24	22.61	14.60	16.75	34.77	-18.02
	23023			12	6	21.10	13.09	15.24	34.77	-19.53
				25	0	21.01	13.00	15.15	34.77	-19.62
				1	0	22.05	14.04	16.19	34.77	-18.58
	22755	704 E	4 1 O A B A	1	24	22.17	14.16	16.31	34.77	-18.46
	23755	706.5	64QAM	12	6	20.95	12.94	15.09	34.77	-19.68
				25	0	20.83	12.82	14.97	34.77	-19.8
				1	0	22.11	14.10	16.25	34.77	-18.52
	22700	710	(40004	1	24	22.27	14.26	16.41	34.77	-18.36
	23790		64QAM	12	6	20.89	12.88	15.03	34.77	-19.74
				25	0	20.88	12.87	15.02	34.77	-19.75
				1	0	22.05	14.04	16.19	34.77	-18.58
	22005	710 5	(40.444	1	24	22.55	14.54	16.69	34.77	-18.08
	23825	713.5	64QAM	12	6	20.93	12.92	15.07	34.77	-19.7
				25	0	20.98	12.97	15.12	34.77	-19.65

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Antenna	gain (dBi)	-5.86								
			LTE Band	17_Up	olink frequency	y band : 704 to				
BW	UL	Frequency	Madulatian	RB	RB	Conducted	ERP	EIRP	EIRP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
		, ,		1	0	(dBm)	(dBm)	(dBm)	(dBm)	
			QPSK	1	0 49	22.99	14.98	17.13	34.77	-17.64
	23780	709		1		22.93	14.92	17.07	34.77	-17.7
				25	12	21.97	13.96	16.11 16.07	34.77	-18.66
				50	0	21.93	13.92		34.77	-18.7
				1	0	22.85	14.84	16.99	34.77	-17.78
	23790 710	QPSK	1	49	23.21	15.20	17.35	34.77	-17.42	
				25	12	21.99	13.98	16.13	34.77	-18.64
				50	0	22.08	14.07	16.22	34.77	-18.55
				1	0	22.93	14.92	17.07	34.77	-17.7
	23800	711	QPSK	1	49	23.26	15.25	17.40	34.77	-17.37
				25	12	22.20	14.19	16.34	34.77	-18.43
				50	0	22.17	14.16	16.31	34.77	-18.46
			16QAM	1	0	22.48	14.47	16.62	34.77	-18.15
	23780	709		1	49	22.44	14.43	16.58	34.77	-18.19
				25	12	21.02	13.01	15.16	34.77	-19.61
				50	0	21.08	13.07	15.22	34.77	-19.55
		710	16QAM	1	0	21.84	13.83	15.98	34.77	-18.79
10	23790			1	49	22.12	14.11	16.26	34.77	-18.51
	20770			25	12	21.07	13.06	15.21	34.77	-19.56
				50	0	21.07	13.06	15.21	34.77	-19.56
		711	16QAM	1	0	22.58	14.57	16.72	34.77	-18.05
	23800			1	49	22.22	14.21	16.36	34.77	-18.41
	23000			25	12	21.34	13.33	15.48	34.77	-19.29
				50	0	21.30	13.29	15.44	34.77	-19.33
				1	0	22.08	14.07	16.22	34.77	-18.55
	23780	709	64QAM	1	49	22.19	14.18	16.33	34.77	-18.44
	23700	107	04QAIVI	25	12	21.10	13.09	15.24	34.77	-19.53
				50	0	20.82	12.81	14.96	34.77	-19.81
				1	0	22.04	14.03	16.18	34.77	-18.59
	22700	710	64QAM	1	49	22.34	14.33	16.48	34.77	-18.29
	23790	/10	04QAIVI	25	12	20.92	12.91	15.06	34.77	-19.71
				50	0	20.84	12.83	14.98	34.77	-19.79
				1	0	22.15	14.14	16.29	34.77	-18.48
	22000	711	440414	1	49	22.59	14.58	16.73	34.77	-18.04
	23800	711	64QAM	25	12	20.93	12.92	15.07	34.77	-19.7
				50	0	20.91	12.90	15.05	34.77	-19.72

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Antenna gain (dRi)

шистина	gain (dBi)	-5.33 LT	E Band 25_L	Jplink	frequen	cy band : 1850) to 1915 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.14	17.81	33	-15.19
	26055	1851.5	QPSK	1	14	23.06	17.73	33	-15.27
	20000	1631.3	QPSK	8	4	21.98	16.65	33	-16.35
				15	0	22.02	16.69	33	-16.31
				1	0	23.04	17.71	33	-15.29
	26365	1882.5	QPSK	1	14	22.85	17.52	33	-15.48
	20300	1002.3	QPSK	8	4	21.88	16.55	33	-16.45
				15	0	21.89	16.56	33	-16.44
				1	0	22.84	17.51	33	-15.49
	2//75	1012 5	ODCK	1	14	22.47	17.14	33	-15.86
	26675	1913.5	QPSK	8	4	21.74	16.41	33	-16.59
				15	0	21.84	16.51	33	-16.49
				1	0	22.20	16.87	33	-16.13
26055	2/055	1051 5	1/0414	1	14	22.63	17.30	33	-15.7
	26055	1851.5	16QAM	8	4	21.08	15.75	33	-17.25
				15	0	21.06	15.73	33	-17.27
				1	0	22.40	17.07	33	-15.93
3	2/2/5	1000 5	1/0414	1	14	21.78	16.45	33	-16.55
3	26365	1882.5	16QAM	8	4	20.81	15.48	33	-17.52
				15	0	20.90	15.57	33	-17.43
				1	0	22.33	17.00	33	-16
	0//75	1010 5	1/0414	1	14	21.88	16.55	33	-16.45
	26675	1913.5	16QAM	8	4	20.78	15.45	33	-17.55
				15	0	20.75	15.42	33	-17.58
				1	0	22.28	16.95	33	-16.05
	2/055	1051 5	(4000	1	14	22.35	17.02	33	-15.98
	26055	1851.5	64QAM	8	4	21.31	15.98	33	-17.02
				15	0	21.20	15.87	33	-17.13
				1	0	22.41	17.08	33	-15.92
26365 1882.5	/ 40 ^ ^ 4	1	14	21.76	16.43	33	-16.57		
	26365	1882.5	64QAM	8	4	20.98	15.65	33	-17.35
				15	0	20.95	15.62	33	-17.38
				1	0	22.27	16.94	33	-16.06
	0//75	1010 5	(40.444	1	14	22.04	16.71	33	-16.29
	26675	1913.5	64QAM	8	4	21.09	15.76	33	-17.24
				15	0	21.15	15.82	33	-17.18

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Antenna gain (dRi)

Antenna	gain (dBi)	-5.33	F Band 25 I	Jnlink	freguen	cy band : 1850) to 1915 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.12	17.79	33	-15.21
	26065	1852.5	QPSK	1	24	23.26	17.93	33	-15.07
	20003	1032.3	QF3K	12	6	22.17	16.84	33	-16.16
				25	0	22.20	16.87	33	-16.13
				1	0	23.15	17.82	33	-15.18
	26365	1882.5	QPSK	1	24	22.93	17.60	33	-15.4
	20303	1002.5	QI SIX	12	6	22.06	16.73	33	-16.27
				25	0	22.00	16.67	33	-16.33
				1	0	22.76	17.43	33	-15.57
	26665	1912.5	QPSK	1	24	22.75	17.42	33	-15.58
	20003	1712.5	QI SIX	12	6	21.91	16.58	33	-16.42
				25	0	21.94	16.61	33	-16.39
				1	0	22.30	16.97	33	-16.03
	26065 18	1852.5	16QAM	1	24	22.50	17.17	33	-15.83
	20003	1032.3	TOQAW	12	6	21.26	15.93	33	-17.07
				25	0	21.22	15.89	33	-17.11
				1	0	22.21	16.88	33	-16.12
5	26365	1882.5	16QAM	1	24	22.37	17.04	33	-15.96
3	20303	1002.5	TOQAW	12	6	21.08	15.75	33	-17.25
				25	0	21.04	15.71	33	-17.29
				1	0	22.01	16.68	33	-16.32
	26665	1912.5	16QAM	1	24	21.90	16.57	33	-16.43
	20003	1712.5	TOQAW	12	6	20.90	15.57	33	-17.43
				25	0	20.89	15.56	33	-17.44
				1	0	22.29	16.96	33	-16.04
	26065	1852.5	64QAM	1	24	22.45	17.12	33	-15.88
	20000	1002.0	O I Q/ IIVI	12	6	21.28	15.95	33	-17.05
				25	0	21.16	15.83	33	-17.17
				1	0	22.41	17.08	33	-15.92
	26365	1882.5	64QAM	1	24	21.75	16.42	33	-16.58
	20000	1002.0	O TQ/ \livi	12	6	21.03	15.70	33	-17.3
				25	0	20.98	15.65	33	-17.35
				1	0	22.26	16.93	33	-16.07
	26665	1912.5	64QAM	1	24	21.98	16.65	33	-16.35
	20003	1/12.5	UTQAW	12	6	21.02	15.69	33	-17.31
				25	0	21.08	15.75	33	-17.25

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Antenna gain (dRi)

Antenna	gain (dBi)	-5.33	F Band 25 T	Inlink	freguen	cy band : 1850) to 1915 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.22	17.89	33	-15.11
	26090	1855	QPSK	1	49	23.20	17.87	33	-15.13
	20090	1000	QPSK	25	12	22.38	17.05	33	-15.95
				50	0	22.35	17.02	33	-15.98
				1	0	23.17	17.84	33	-15.16
	26365	1882.5	QPSK	1	49	22.96	17.63	33	-15.37
	20303	1002.3	QPSK	25	12	22.18	16.85	33	-16.15
				50	0	22.09	16.76	33	-16.24
				1	0	22.85	17.52	33	-15.48
	26640	1910	QPSK	1	49	22.78	17.45	33	-15.55
	20040	1910	QPSK	25	12	21.96	16.63	33	-16.37
				50	0	22.06	16.73	33	-16.27
				1	0	22.38	17.05	33	-15.95
	26090	1855	16QAM	1	49	22.35	17.02	33	-15.98
	20090	1000	10Q/W	25	12	21.40	16.07	33	-16.93
				50	0	21.42	16.09	33	-16.91
				1	0	22.60	17.27	33	-15.73
10	26365	1882.5	16QAM	1	49	22.28	16.95	33	-16.05
10	20303	1002.3	TOQAW	25	12	21.24	15.91	33	-17.09
				50	0	21.17	15.84	33	-17.16
				1	0	21.76	16.43	33	-16.57
	26640	1910	16QAM	1	49	22.17	16.84	33	-16.16
	20040	1910	TOQAW	25	12	21.05	15.72	33	-17.28
				50	0	21.10	15.77	33	-17.23
				1	0	22.24	16.91	33	-16.09
	26090	1855	64QAM	1	49	22.35	17.02	33	-15.98
	∠009U	1000	04QAIVI	25	12	21.20	15.87	33	-17.13
				50	0	21.19	15.86	33	-17.14
				1	0	22.47	17.14	33	-15.86
	26365	1882.5	64QAM	1	49	21.66	16.33	33	-16.67
	20303	1002.3	04QAIVI	25	12	21.03	15.70	33	-17.3
				50	0	20.99	15.66	33	-17.34
				1	0	22.32	16.99	33	-16.01
1	26640	1910	64QAM	1	49	21.94	16.61	33	-16.39
	Z004U	1710	04QAIVI	25	12	21.01	15.68	33	-17.32
				50	0	21.08	15.75	33	-17.25

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Antenna gain (dRi)

Antenna	gain (dBi)	-5.33 LT	E Band 25_L	Jplink	freguen	cy band : 1850) to 1915 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.22	17.89	33	-15.11
	2/115	1057.5	ODCK	1	74	23.13	17.80	33	-15.2
	26115	1857.5	QPSK	36	18	22.27	16.94	33	-16.06
				75	0	22.26	16.93	33	-16.07
				1	0	23.16	17.83	33	-15.17
	26365	1882.5	QPSK	1	74	22.84	17.51	33	-15.49
	20300	1002.3	QPSK	36	18	22.16	16.83	33	-16.17
				75	0	22.10	16.77	33	-16.23
				1	0	23.13	17.80	33	-15.2
	24415	1907.5	QPSK	1	74	22.95	17.62	33	-15.38
	26615	1907.5	QP3K	36	18	22.09	16.76	33	-16.24
				75	0	22.12	16.79	33	-16.21
				1	0	22.85	17.52	33	-15.48
	26115	1857.5	16QAM	1	74	22.04	16.71	33	-16.29
	20115	1837.3	TOQAIVI	36	18	21.34	16.01	33	-16.99
				75	0	21.36	16.03	33	-16.97
				1	0	22.20	16.87	33	-16.13
15	24245	1000 E	1/ 0 1 1 1	1	74	22.01	16.68	33	-16.32
15	26365	1882.5	16QAM	36	18	21.23	15.90	33	-17.1
				75	0	21.14	15.81	33	-17.19
				1	0	21.77	16.44	33	-16.56
	26615	1907.5	16QAM	1	74	22.16	16.83	33	-16.17
	20013	1907.5	TOQAW	36	18	21.20	15.87	33	-17.13
				75	0	21.21	15.88	33	-17.12
				1	0	22.25	16.92	33	-16.08
	26115	1857.5	64QAM	1	74	22.47	17.14	33	-15.86
	20113	1007.0	04QAIVI	36	18	21.17	15.84	33	-17.16
				75	0	21.22	15.89	33	-17.11
				1	0	22.57	17.24	33	-15.76
	24245	1000 E	4 1 O A N I	1	74	21.79	16.46	33	-16.54
	26365	1882.5	64QAM	36	18	21.07	15.74	33	-17.26
				75	0	21.12	15.79	33	-17.21
				1	0	22.29	16.96	33	-16.04
	26615	1907.5	64QAM	1	74	21.91	16.58	33	-16.42
	20015	1907.5	04QAIVI	36	18	20.96	15.63	33	-17.37
				75	0	21.00	15.67	33	-17.33

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Antenna gain	(dBi)	-5.33
Antonna gain	(uDI)	-0.00

7 ti itorii ia	gairi (ubi)	-5.33 LT	E Band 25_L	Jplink '	frequen	cy band : 1850	to 1915 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.34	18.01	33	-14.99
	2/1/0	10/0	ODCK	1	99	23.20	17.87	33	-15.13
	26140	1860	QPSK	50	25	22.21	16.88	33	-16.12
				100	0	22.23	16.90	33	-16.1
				1	0	23.20	17.87	33	-15.13
	2/2/5	1000 5	ODCK	1	99	22.90	17.57	33	-15.43
	26365	1882.5	QPSK	50	25	22.01	16.68	33	-16.32
				100	0	22.05	16.72	33	-16.28
				1	0	23.01	17.68	33	-15.32
	2/500	1005	ODCK	1	99	22.81	17.48	33	-15.52
	26590	1905	QPSK	50	25	22.10	16.77	33	-16.23
				100	0	22.16	16.83	33	-16.17
				1	0	22.43	17.10	33	-15.9
	26140 1860	1/0414	1	99	22.53	17.20	33	-15.8	
		1860	16QAM	50	25	21.32	15.99	33	-17.01
				100	0	21.28	15.95	33	-17.05
				1	0	22.57	17.24	33	-15.76
20	2/2/5	1000 F	1/0414	1	99	21.79	16.46	33	-16.54
20	26365	1882.5	16QAM	50	25	21.14	15.81	33	-17.19
				100	0	21.15	15.82	33	-17.18
				1	0	22.44	17.11	33	-15.89
	2/500	1005	1/0414	1	99	22.05	16.72	33	-16.28
	26590	1905	16QAM	50	25	21.15	15.82	33	-17.18
				100	0	21.19	15.86	33	-17.14
				1	0	22.39	17.06	33	-15.94
	2/1/0	10/0	(4000	1	99	22.46	17.13	33	-15.87
	26140	1860	64QAM	50	25	21.25	15.92	33	-17.08
				100	0	21.13	15.80	33	-17.2
				1	0	22.49	17.16	33	-15.84
	0,045	/ A 🗆 A B A	1	99	21.68	16.35	33	-16.65	
	26365	1882.5	64QAM	50	25	21.12	15.79	33	-17.21
			100	0	21.04	15.71	33	-17.29	
				1	0	22.38	17.05	33	-15.95
	0/500	1005	/ 4 🔿 🐧 🗖	1	99	21.91	16.58	33	-16.42
	26590	1905	64QAM	50	25	21.12	15.79	33	-17.21
				100	0	21.04	15.71	33	-17.29

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Antenna	gain (dBi)	-4.74	LTC Dame	I 2/ II	link for accomp	. hand . 024 to	040 MH-			
			LIE Band	1 26_Up	olink trequenc	y band : 824 to		FIDD	LIDD	
BW	UL	Frequency	Modulation	RB	RB	Conducted	ERP	EIRP	EIRP Limit	Margin
(MHz)	Channel	(MHz)	IVIOUUIAIIOIT	Size	Offset	Average (dBm)	Average (dBm)	Average (dBm)	(dBm)	(dB)
				1	0	23.02	16.13	18.28	38.45	-20.17
				1	5	23.09	16.13	18.35	38.45	-20.17
	26797	824.7	QPSK	3	2	23.00	16.11	18.26	38.45	-20.19
				6	0	22.00	15.11	17.26	38.45	-21.19
				1	0	23.14	16.25	18.40	38.45	-20.05
				1	5	23.14	16.25	18.40	38.45	-20.05
	26915	836.5	QPSK	3	2	23.08	16.19	18.34	38.45	-20.11
				6	0	22.14	15.25	17.40	38.45	-21.05
				1	0	23.29	16.40	18.55	38.45	-19.9
				1	5	23.12	16.23	18.38	38.45	-20.07
	27033	848.3	QPSK	3	2	23.16	16.27	18.42	38.45	-20.03
				6	0	22.13	15.24	17.39	38.45	-21.06
				1	0	22.30	15.41	17.56	38.45	-20.89
				1	5	22.26	15.37	17.52	38.45	-20.93
	26797	824.7	16QAM	3	2	22.15	15.26	17.41	38.45	-21.04
				6	0	21.10	14.21	16.36	38.45	-22.09
				1	0	22.48	15.59	17.74	38.45	-20.71
				1	5	22.26	15.37	17.52	38.45	-20.93
1.4	26915	836.5	16QAM	3	2	22.29	15.40	17.55	38.45	-20.9
				6	0	21.15	14.26	16.41	38.45	-22.04
				1	0	22.62	15.73	17.88	38.45	-20.57
				1	5	22.37	15.48	17.63	38.45	-20.82
	27033	848.3	16QAM	3	2	21.89	15.00	17.15	38.45	-21.3
				6	0	21.13	14.24	16.39	38.45	-22.06
				1	0	22.17	15.28	17.43	38.45	-21.02
			,,,,,,,	1	5	22.55	15.66	17.81	38.45	-20.64
	26797	824.7	64QAM	3	2	21.06	14.17	16.32	38.45	-22.13
				6	0	21.12	14.23	16.38	38.45	-22.07
				1	0	22.41	15.52	17.67	38.45	-20.78
	0.404=	007.5	/ 40 4	1	5	22.19	15.30	17.45	38.45	-21
	26915	836.5	64QAM	3	2	21.12	14.23	16.38	38.45	-22.07
				6	0	21.02	14.13	16.28	38.45	-22.17
				1	0	22.44	15.55	17.70	38.45	-20.75
	07000	0.40.0	,,,,,,,,	1	5	22.73	15.84	17.99	38.45	-20.46
	27033	848.3	64QAM	3	2	21.25	14.36	16.51	38.45	-21.94
				6	0	21.32	14.43	16.58	38.45	-21.87

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Antenna	gain (dBi)	-4.74	I TE Dano	lak Un	link froquency	y band : 824 to	010 MU-			
			LIE Bano		•	Conducted	ERP	EIRP	EIRP	
BW	UL	Frequency	Modulation	RB	RB	Average	Average	Average	Limit	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
				1	0	23.04	16.15	18.30	38.45	-20.15
				1	14	23.13	16.24	18.39	38.45	-20.06
	26805	825.5	QPSK	8	4	22.05	15.16	17.31	38.45	-21.14
				15	0	22.00	15.11	17.26	38.45	-21.19
				1	0	23.03	16.14	18.29	38.45	-20.16
	0/045	007.5	0001/	1	14	23.00	16.11	18.26	38.45	-20.19
	26915	836.5	QPSK	8	4	22.15	15.26	17.41	38.45	-21.04
				15	0	22.10	15.21	17.36	38.45	-21.09
				1	0	23.15	16.26	18.41	38.45	-20.04
	07005	0.47.5	ODCIV	1	14	23.27	16.38	18.53	38.45	-19.92
	27025	847.5	QPSK	8	4	22.22	15.33	17.48	38.45	-20.97
				15	0	22.22	15.33	17.48	38.45	-20.97
				1	0	22.47	15.58	17.73	38.45	-20.72
	27,005	025.5	16QAM	1	14	22.14	15.25	17.40	38.45	-21.05
	26805 825.5	TOQAIVI	8	4	21.14	14.25	16.40	38.45	-22.05	
				15	0	21.07	14.18	16.33	38.45	-22.12
				1	0	22.25	15.36	17.51	38.45	-20.94
3	26915	836.5	16QAM	1	14	22.66	15.77	17.92	38.45	-20.53
3	20913	030.3	TOQAW	8	4	21.14	14.25	16.40	38.45	-22.05
				15	0	21.09	14.20	16.35	38.45	-22.1
				1	0	22.00	15.11	17.26	38.45	-21.19
	27025	847.5	16QAM	1	14	22.58	15.69	17.84	38.45	-20.61
	27025	047.3	TOQAW	8	4	21.24	14.35	16.50	38.45	-21.95
				15	0	21.03	14.14	16.29	38.45	-22.16
				1	0	22.27	15.38	17.53	38.45	-20.92
	26805	825.5	64QAM	1	14	22.65	15.76	17.91	38.45	-20.54
	20003	023.3	04QAIVI	8	4	21.05	14.16	16.31	38.45	-22.14
				15	0	21.13	14.24	16.39	38.45	-22.06
				1	0	22.39	15.50	17.65	38.45	-20.8
	26915	836.5	64QAM	1	14	22.13	15.24	17.39	38.45	-21.06
	20710	030.3	UHUMIVI	8	4	21.08	14.19	16.34	38.45	-22.11
				15	0	21.01	14.12	16.27	38.45	-22.18
				1	0	22.33	15.44	17.59	38.45	-20.86
	27025	847.5	64QAM	1	14	22.73	15.84	17.99	38.45	-20.46
	21025	0.77.0	UTUAIN	8	4	21.21	14.32	16.47	38.45	-21.98
				15	0	21.26	14.37	16.52	38.45	-21.93

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Antenna	gain (dBi)	-4.74	I TE Dane	IO4 IIn	link froguency	y band : 824 to	040 MHz			
			LTE Band	1 20_UL	nink frequency	Conducted	ERP	EIRP	EIRP	
BW	UL	Frequency	Modulation	RB	RB	Average	Average	Average	Limit	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
				1	0	23.05	16.16	18.31	38.45	-20.14
				1	24	23.20	16.31	18.46	38.45	-19.99
	26815	826.5	QPSK	12	6	22.21	15.32	17.47	38.45	-20.98
				25	0	22.18	15.29	17.44	38.45	-21.01
				1	0	23.08	16.19	18.34	38.45	-20.11
				1	24	23.28	16.39	18.54	38.45	-19.91
	26915	836.5	QPSK	12	6	22.18	15.29	17.44	38.45	-21.01
				25	0	22.21	15.32	17.47	38.45	-20.98
				1	0	23.20	16.31	18.46	38.45	-19.99
				1	24	23.17	16.28	18.43	38.45	-20.02
	27015	846.5	QPSK	12	6	22.19	15.30	17.45	38.45	-21
				25	0	22.23	15.34	17.49	38.45	-20.96
				1	0	22.28	15.39	17.54	38.45	-20.91
				1	24	22.26	15.37	17.52	38.45	-20.93
	26815	826.5	16QAM	12	6	21.26	14.37	16.52	38.45	-21.93
				25	0	21.34	14.45	16.60	38.45	-21.85
				1	0	22.45	15.56	17.71	38.45	-20.74
_	0.4045	007.5	1 (0 1) 1	1	24	22.41	15.52	17.67	38.45	-20.78
5	26915	836.5	16QAM	12	6	21.24	14.35	16.50	38.45	-21.95
				25	0	21.36	14.47	16.62	38.45	-21.83
				1	0	22.40	15.51	17.66	38.45	-20.79
	07045	047.5	1/0414	1	24	22.53	15.64	17.79	38.45	-20.66
	27015	846.5	16QAM	12	6	21.37	14.48	16.63	38.45	-21.82
				25	0	21.28	14.39	16.54	38.45	-21.91
				1	0	22.17	15.28	17.43	38.45	-21.02
	2/015	027.5	/ 40 4 4	1	24	22.50	15.61	17.76	38.45	-20.69
	26815	826.5	64QAM	12	6	21.05	14.16	16.31	38.45	-22.14
				25	0	21.01	14.12	16.27	38.45	-22.18
				1	0	22.44	15.55	17.70	38.45	-20.75
	24015	027 5	4 4 🔿 A N A	1	24	22.16	15.27	17.42	38.45	-21.03
	26915	836.5	64QAM	12	6	21.06	14.17	16.32	38.45	-22.13
				25	0	21.16	14.27	16.42	38.45	-22.03
				1	0	22.28	15.39	17.54	38.45	-20.91
	27015	04/ 5	6 A O A B A	1	24	22.88	15.99	18.14	38.45	-20.31
	27015	846.5	64QAM	12	6	21.28	14.39	16.54	38.45	-21.91
				25	0	21.32	14.43	16.58	38.45	-21.87

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Antenna gain (dBi)

-4.74

Antenna	yairi (ubi)	-4./4	LTE Band	26_Ur	olink frequency	y band : 824 to	849 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.01	16.12	18.27	38.45	-20.18
	2/040	020	ODCK	1	49	23.14	16.25	18.40	38.45	-20.05
	26840	829	QPSK	25	12	22.08	15.19	17.34	38.45	-21.11
				50	0	22.18	15.29	17.44	38.45	-21.01
				1	0	23.06	16.17	18.32	38.45	-20.13
	26915	836.5	QPSK	1	49	23.19	16.30	18.45	38.45	-20
	20913	030.3	UPSK	25	12	22.14	15.25	17.40	38.45	-21.05
				50	0	22.14	15.25	17.40	38.45	-21.05
				1	0	23.48	16.59	18.74	38.45	-19.71
	26990	844	QPSK	1	49	23.20	16.31	18.46	38.45	-19.99
	20990	044	UPSK	25	12	22.24	15.35	17.50	38.45	-20.95
				50	0	22.22	15.33	17.48	38.45	-20.97
				1	0	22.51	15.62	17.77	38.45	-20.68
	26840	829	16QAM	1	49	22.37	15.48	17.63	38.45	-20.82
	20040	029	TOQAIVI	25	12	21.19	14.30	16.45	38.45	-22
				50	0	21.19	14.30	16.45	38.45	-22
				1	0	22.40	15.51	17.66	38.45	-20.79
10	26915	836.5	16QAM	1	49	22.58	15.69	17.84	38.45	-20.61
10	20913	630.3	TOQAIVI	25	12	21.23	14.34	16.49	38.45	-21.96
				50	0	21.13	14.24	16.39	38.45	-22.06
				1	0	22.72	15.83	17.98	38.45	-20.47
	26990	844	16QAM	1	49	22.27	15.38	17.53	38.45	-20.92
	20990	044	TOQAIVI	25	12	21.30	14.41	16.56	38.45	-21.89
				50	0	21.27	14.38	16.53	38.45	-21.92
				1	0	22.30	15.41	17.56	38.45	-20.89
	26840	829	64QAM	1	49	22.54	15.65	17.80	38.45	-20.65
	20040	029	04QAIVI	25	12	21.09	14.20	16.35	38.45	-22.1
				50	0	21.10	14.21	16.36	38.45	-22.09
				1	0	22.39	15.50	17.65	38.45	-20.8
	26915	836.5	64QAM	1	49	22.18	15.29	17.44	38.45	-21.01
	20913	030.3	04QAIVI	25	12	21.01	14.12	16.27	38.45	-22.18
				50	0	21.09	14.20	16.35	38.45	-22.1
				1	0	22.31	15.42	17.57	38.45	-20.88
	26990	844	64QAM	1	49	22.70	15.81	17.96	38.45	-20.49
	20770	044	04QAIVI	25	12	21.22	14.33	16.48	38.45	-21.97
				50	0	21.32	14.43	16.58	38.45	-21.87

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Antenna	gain (dBi)	-4.74	I TE Rano	126 Un	link frequency	y band : 824 to	Q/0 MU7			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.05	16.16	18.31	38.45	-20.14
	0/0/5	004.5	ODCI	1	74	23.34	16.45	18.60	38.45	-19.85
	26865	831.5	QPSK	36	18	22.08	15.19	17.34	38.45	-21.11
				75	0	22.13	15.24	17.39	38.45	-21.06
				1	0	23.04	16.15	18.30	38.45	-20.15
	26915	836.5	QPSK	1	74	23.49	16.60	18.75	38.45	-19.7
	20913	630.3	QPSK	36	18	22.12	15.23	17.38	38.45	-21.07
				75	0	22.14	15.25	17.40	38.45	-21.05
				1	0	23.24	16.35	18.50	38.45	-19.95
	26965	841.5	QPSK	1	74	23.33	16.44	18.59	38.45	-19.86
	20900	041.3	QPSK	36	18	22.45	15.56	17.71	38.45	-20.74
				75	0	22.41	15.52	17.67	38.45	-20.78
				1	0	22.32	15.43	17.58	38.45	-20.87
	26865	831.5	16QAM	1	74	22.68	15.79	17.94	38.45	-20.51
	20003	031.3	TOQAW	36	18	21.08	14.19	16.34	38.45	-22.11
				75	0	21.17	14.28	16.43	38.45	-22.02
				1	0	22.49	15.60	17.75	38.45	-20.7
15	26915	836.5	16QAM	1	74	22.24	15.35	17.50	38.45	-20.95
13	20713	030.3	TOCAIVI	36	18	21.13	14.24	16.39	38.45	-22.06
				75	0	21.18	14.29	16.44	38.45	-22.01
				1	0	22.45	15.56	17.71	38.45	-20.74
	26965	841.5	16QAM	1	74	22.89	16.00	18.15	38.45	-20.3
	20703	041.5	TOCAIVI	36	18	21.39	14.50	16.65	38.45	-21.8
				75	0	21.38	14.49	16.64	38.45	-21.81
				1	0	22.22	15.33	17.48	38.45	-20.97
	26865	831.5	64QAM	1	74	22.54	15.65	17.80	38.45	-20.65
	20003	031.3	04QAW	36	18	21.00	14.11	16.26	38.45	-22.19
				75	0	21.03	14.14	16.29	38.45	-22.16
				1	0	22.40	15.51	17.66	38.45	-20.79
	26915	836.5	64QAM	1	74	22.16	15.27	17.42	38.45	-21.03
	20713	030.3	04QAW	36	18	21.07	14.18	16.33	38.45	-22.12
				75	0	21.17	14.28	16.43	38.45	-22.02
				1	0	22.34	15.45	17.60	38.45	-20.85
	26965	841.5	64QAM	1	74	22.78	15.89	18.04	38.45	-20.41
	20703	041.0	UTQAW	36	18	21.25	14.36	16.51	38.45	-21.94
				75	0	21.37	14.48	16.63	38.45	-21.82

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Antenna	gain (dBi)	-6.54								
		P	art 90S_LTE	Band	26_Uplir		oand: 814 to 8			_
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.71	14.02	16.17	50	-33.83
	26697	814.7	QPSK	1	5	22.84	14.15	16.30	50	-33.7
	20097	014.7	UPSK	3	2	22.59	13.90	16.05	50	-33.95
				6	0	21.75	13.06	15.21	50	-34.79
				1	0	22.92	14.23	16.38	50	-33.62
	26740	819	QPSK	1	5	22.91	14.22	16.37	50	-33.63
	20740	017	QF3K	3	2	22.92	14.23	16.38	50	-33.62
				6	0	21.94	13.25	15.40	50	-34.6
				1	0	22.71	14.02	16.17	50	-33.83
	26783	823.3	QPSK	1	5	22.63	13.94	16.09	50	-33.91
	20703	023.3	QFSK	3	2	22.60	13.91	16.06	50	-33.94
				6	0	21.52	12.83	14.98	50	-35.02
				1	0	21.86	13.17	15.32	50	-34.68
	26607	Q1 <i>1</i> , 7	16QAM	1	5	21.90	13.21	15.36	50	-34.64
	26697 814.7	TOQAWI	3	2	21.66	12.97	15.12	50	-34.88	
				6	0	20.79	12.10	14.25	50	-35.75
				1	0	22.09	13.40	15.55	50	-34.45
1.4	26740	819	16QAM	1	5	21.80	13.11	15.26	50	-34.74
1.4	20740	017	TOQAW	3	2	21.60	12.91	15.06	50	-34.94
				6	0	21.00	12.31	14.46	50	-35.54
				1	0	21.90	13.21	15.36	50	-34.64
	26783	823.3	16QAM	1	5	21.75	13.06	15.21	50	-34.79
	20703	023.3	TOQAW	3	2	21.58	12.89	15.04	50	-34.96
				6	0	20.71	12.02	14.17	50	-35.83
				1	0	21.72	13.03	15.18	50	-34.82
	26697	814.7	64QAM	1	5	21.79	13.10	15.25	50	-34.75
	20071	014.7	042/11/1	3	2	21.62	12.93	15.08	50	-34.92
				6	0	20.59	11.90	14.05	50	-35.95
				1	0	22.01	13.32	15.47	50	-34.53
	26740	819	64QAM	1	5	21.64	12.95	15.10	50	-34.9
	20770	017	UTQAW	3	2	21.52	12.83	14.98	50	-35.02
				6	0	20.88	12.19	14.34	50	-35.66
				1	0	21.73	13.04	15.19	50	-34.81
	26783	823.3	64QAM	1	5	21.62	12.93	15.08	50	-34.92
	20703	023.3	UTQAIVI	3	2	21.48	12.79	14.94	50	-35.06
				6	0	20.54	11.85	14.00	50	-36

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Antenna	gain (dBi)	-6.54								
		P	art 90S_LTE	Band	26_Uplir		oand : 814 to 8			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.60	13.91	16.06	50	-33.94
	26705	815.5	QPSK	1	14	22.57	13.88	16.03	50	-33.97
	20703	013.3	QI SIX	8	4	21.78	13.09	15.24	50	-34.76
				15	0	21.83	13.14	15.29	50	-34.71
				1	0	21.90	13.21	15.36	50	-34.64
	26740	819	QPSK	1	14	22.50	13.81	15.96	50	-34.04
	20740	017	QI SIX	8	4	21.90	13.21	15.36	50	-34.64
				15	0	21.90	13.21	15.36	50	-34.64
				1	0	22.13	13.44	15.59	50	-34.41
	26775	822.5	QPSK	1	14	21.82	13.13	15.28	50	-34.72
	20770	022.0	QI OIX	8	4	21.75	13.06	15.21	50	-34.79
				15	0	21.82	13.13	15.28	50	-34.72
				1	0	21.64	12.95	15.10	50	-34.9
	26705	815.5	16QAM	1	14	21.98	13.29	15.44	50	-34.56
	26705 815.5 16Q	10 27 1111	8	4	20.79	12.10	14.25	50	-35.75	
			15	0	20.57	11.88	14.03	50	-35.97	
			+	1	0	21.83	13.14	15.29	50	-34.71
3	26740	819	16QAM	1	14	21.85	13.16	15.31	50	-34.69
J	207.10			8	4	20.85	12.16	14.31	50	-35.69
				15	0	20.84	12.15	14.30	50	-35.7
				1	0	21.88	13.19	15.34	50	-34.66
	26775	822.5	16QAM	1	14	21.86	13.17	15.32	50	-34.68
				8	4	20.70	12.01	14.16	50	-35.84
				15	0	20.78	12.09	14.24	50	-35.76
				1	0	21.57	12.88	15.03	50	-34.97
	26705	815.5	64QAM	1	14	21.85	13.16	15.31	50	-34.69
				8	4	20.63	11.94	14.09	50	-35.91
				15	0	20.42	11.73	13.88	50	-36.12
				1	0	21.77	13.08	15.23	50	-34.77
	26740	819	64QAM	1	14	21.75	13.06	15.21	50	-34.79
				8	4	20.64	11.95	14.10	50	-35.9
				15	0	20.71	12.02	14.17	50	-35.83
				1	0	21.82	13.13	15.28	50	-34.72
	26775	822.5	64QAM	1	14	21.73	13.04	15.19	50	-34.81
		,		8	4	20.67	11.98	14.13	50	-35.87
				15	0	20.74	12.05	14.20	50	-35.8

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Antenna	gain (dBi)	-6.54		_						
		P	art 90S_LTE	Band	26_Uplir		oand: 814 to 8			_
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.12	13.43	15.58	50	-34.42
	26715	816.5	QPSK	1	24	23.02	14.33	16.48	50	-33.52
	20/13	010.5	QFSK	12	6	21.99	13.30	15.45	50	-34.55
				25	0	21.99	13.30	15.45	50	-34.55
				1	0	22.33	13.64	15.79	50	-34.21
	26740	819	QPSK	1	24	22.91	14.22	16.37	50	-33.63
	20740	017	QI SIX	12	6	21.99	13.30	15.45	50	-34.55
				25	0	22.00	13.31	15.46	50	-34.54
				1	0	22.84	14.15	16.30	50	-33.7
	26765	821.5	QPSK	1	24	22.82	14.13	16.28	50	-33.72
	20703	021.5	QI SIK	12	6	21.97	13.28	15.43	50	-34.57
				25	0	21.99	13.30	15.45	50	-34.55
				1	0	22.01	13.32	15.47	50	-34.53
	26715	816.5	16QAM	1	24	22.21	13.52	15.67	50	-34.33
	26/15 816.5	010.5	10071111	12	6	21.04	12.35	14.50	50	-35.5
			25	0	21.07	12.38	14.53	50	-35.47	
				1	0	21.90	13.21	15.36	50	-34.64
5	26740	819	16QAM	1	24	21.03	12.34	14.49	50	-35.51
J	20740	017	10071111	12	6	21.07	12.38	14.53	50	-35.47
				25	0	21.06	12.37	14.52	50	-35.48
				1	0	21.37	12.68	14.83	50	-35.17
	26765	821.5	16QAM	1	24	21.59	12.90	15.05	50	-34.95
	20700	021.0	10071111	12	6	21.06	12.37	14.52	50	-35.48
				25	0	21.06	12.37	14.52	50	-35.48
				1	0	21.97	13.28	15.43	50	-34.57
	26715	816.5	64QAM	1	24	22.05	13.36	15.51	50	-34.49
	20710	010.0	0107111	12	6	21.00	12.31	14.46	50	-35.54
				25	0	21.03	12.34	14.49	50	-35.51
				1	0	21.85	13.16	15.31	50	-34.69
	26740	819	64QAM	1	24	20.89	12.20	14.35	50	-35.65
	20740	017	0 1 27 1111	12	6	20.98	12.29	14.44	50	-35.56
				25	0	20.96	12.27	14.42	50	-35.58
				1	0	21.24	12.55	14.70	50	-35.3
	26765	821 5	64QAM	1	24	21.35	12.66	14.81	50	-35.19
	20700	26765 821.5 640	0 1 27 1111	12	6	20.95	12.26	14.41	50	-35.59
				25	0	20.99	12.30	14.45	50	-35.55

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Antenna gain (dBi) -6.54

	gairi (abi)	Pa	art 90S_LTE	Band :	26_Uplir	nk frequency b	oand: 814 to 8	24 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.84	14.15	16.30	50	-33.7
	26740	819	QPSK	1	49	22.95	14.26	16.41	50	-33.59
	20740	019	UPSK	25	12	22.01	13.32	15.47	50	-34.53
				50	0	22.01	13.32	15.47	50	-34.53
				1	0	22.29	13.60	15.75	50	-34.25
10	26740	819	16QAM	1	49	22.24	13.55	15.70	50	-34.3
10	20740	019	TOQAW	25	12	21.14	12.45	14.60	50	-35.4
				50	0	21.04	12.35	14.50	50	-35.5
				1	0	22.17	13.48	15.63	50	-34.37
	26740	010	819 64QAM -	1	49	22.05	13.36	15.51	50	-34.49
	20740	019		25	12	21.10	12.41	14.56	50	-35.44
				50	0	20.97	12.28	14.43	50	-35.57

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Antenna yani (ubi) -5.5	Antenna gain	ı (dBi)	-3.39
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Antenna	gain (dBi)	-3.39							
		LT	E Band 30_U	lplink fr	equency band	d: 2305 to 231			_
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.55	19.16	24	-4.84
	27685	2307.5	QPSK	1	24	22.48	19.09	24	-4.91
	27060	2307.5	QPSK	12	6	21.20	17.81	24	-6.19
				25	0	21.21	17.82	24	-6.18
				1	0	22.47	19.08	24	-4.92
	27710	2310	QPSK	1	24	22.49	19.10	24	-4.9
	27710	2310	QPSK	12	6	21.32	17.93	24	-6.07
				25	0	21.42	18.03	24	-5.97
				1	0	22.62	19.23	24	-4.77
	27735	2312.5	QPSK	1	24	22.79	19.40	24	-4.6
	21133	2312.3	QPSK	12	6	21.53	18.14	24	-5.86
				25	0	21.55	18.16	24	-5.84
				1	0	22.02	18.63	24	-5.37
	27405	2207 5	16QAM	1	24	21.68	18.29	24	-5.71
	27685 2307.5	TOQAIVI	12	6	20.15	16.76	24	-7.24	
			25	0	20.20	16.81	24	-7.19	
				1	0	21.61	18.22	24	-5.78
5	27710	2310	16QAM	1	24	21.83	18.44	24	-5.56
5	27710	2310	TOQAW	12	6	20.33	16.94	24	-7.06
				25	0	20.42	17.03	24	-6.97
				1	0	22.17	18.78	24	-5.22
	27735	2312.5	16QAM	1	24	22.32	18.93	24	-5.07
	21133	2312.3	TOCANI	12	6	20.56	17.17	24	-6.83
				25	0	20.59	17.20	24	-6.8
				1	0	22.07	18.68	24	-5.32
	27685	2307.5	64QAM	1	24	21.77	18.38	24	-5.62
	27003	2307.3	04QAIVI	12	6	20.34	16.95	24	-7.05
				25	0	20.38	16.99	24	-7.01
				1	0	21.73	18.34	24	-5.66
	27710	2310	64QAM	1	24	22.03	18.64	24	-5.36
	21110	2310	UTUAIN	12	6	20.45	17.06	24	-6.94
				25	0	20.60	17.21	24	-6.79
				1	0	22.27	18.88	24	-5.12
	27735	2312.5	64QAM	1	24	22.50	19.11	24	-4.89
	21130	2312.3	UHUAIVI	12	6	20.73	17.34	24	-6.66
				25	0	20.60	17.21	24	-6.79

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-3.39 Antenna gain (dBi)

Tinterina	,	LT	E Band 30_U	lplink fı	requency band	d: 2305 to 231	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.32	18.93	24	-5.07
	27710	2310	QPSK	1	49	22.81	19.42	24	-4.58
	27710	2310	UFSK	25	12	21.44	18.05	24	-5.95
				50	0	21.58	18.19	24	-5.81
				1	0	22.02	18.63	24	-5.37
10	27710	2310	16QAM	1	49	22.01	18.62	24	-5.38
10	27710	2310	TOQAIVI	25	12	20.61	17.22	24	-6.78
				50	0	20.68	17.29	24	-6.71
				1	0	22.20	18.81	24	-5.19
	27710	2310	64QAM	1	49	22.08	18.69	24	-5.31
	21110	2310		25	12	20.77	17.38	24	-6.62
				50	0	20.80	17.41	24	-6.59

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Antenna gain (dRi)

Antenna	ntenna gain (dBi) -3.93 LTE Band 38_Uplink frequency band : 2570 to 2620 MHz												
BW (MHz)	UL Channel	Frequency	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)				
				1	0	23.02	19.09	33	-13.91				
	27775	2572.5	QPSK	1	24	23.08	19.15	33	-13.85				
	37775	2372.3	UPSK	12	6	22.02	18.09	33	-14.91				
				25	0	22.02	18.09	33	-14.91				
				1	0	23.08	19.15	33	-13.85				
	38000	2595	QPSK	1	24	23.27	19.34	33	-13.66				
	36000	2090	UPSK	12	6	22.20	18.27	33	-14.73				
				25	0	22.18	18.25	33	-14.75				
				1	0	23.53	19.60	33	-13.4				
	20225	2/17 E	ODCK	1	24	23.62	19.69	33	-13.31				
	38225	2617.5	QPSK	12	6	22.67	18.74	33	-14.26				
				25	0	22.65	18.72	33	-14.28				
				1	0	22.09	18.16	33	-14.84				
	27775	2572.5	1/0414	1	24	22.02	18.09	33	-14.91				
	3///5	7775 2572.5 1	16QAM -	12	6	21.13	17.20	33	-15.8				
				25	0	21.03	17.10	33	-15.9				
				1	0	22.03	18.10	33	-14.9				
г	20000	2505	1/0414	1	24	22.59	18.66	33	-14.34				
5	38000	2595	16QAM	12	6	21.15	17.22	33	-15.78				
				25	0	21.07	17.14	33	-15.86				
				1	0	22.56	18.63	33	-14.37				
	20225	2/17 5	1/0414	1	24	22.76	18.83	33	-14.17				
	38225	2617.5	16QAM	12	6	21.57	17.64	33	-15.36				
				25	0	21.54	17.61	33	-15.39				
				1	0	22.26	18.33	33	-14.67				
	27775	2572.5	/ 4 O A N 4	1	24	22.04	18.11	33	-14.89				
	37775	2572.5	64QAM	12	6	21.15	17.22	33	-15.78				
				25	0	21.06	17.13	33	-15.87				
				1	0	22.19	18.26	33	-14.74				
	20000	0505	/ 40 454	1	24	22.64	18.71	33	-14.29				
	38000	3000 2595 64QAM	12	6	21.29	17.36	33	-15.64					
			25	0	21.11	17.18	33	-15.82					
			1	0	22.59	18.66	33	-14.34					
	20005	0/47.5	/ 40 454	1	24	22.93	19.00	33	-14				
	38225	38225 2617.5 64QAM	64QAM	12	6	21.59	17.66	33	-15.34				
			-	25	0	21.60	17.67	33	-15.33				

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Antenna gain (dRi) 2 02

Antenna	gain (dBi)	-3.93 LT	E Band 38 1	Jplink	freauen	cy band : 2570) to 2620 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.21	19.28	33	-13.72
	37800	2575	QPSK	1	49	23.08	19.15	33	-13.85
	3/600	2070	UPSK	25	12	22.02	18.09	33	-14.91
				50	0	22.09	18.16	33	-14.84
				1	0	23.07	19.14	33	-13.86
	38000	2595	QPSK	1	49	23.31	19.38	33	-13.62
	36000	2090	UPSK	25	12	22.22	18.29	33	-14.71
				50	0	22.19	18.26	33	-14.74
				1	0	23.54	19.61	33	-13.39
	38200	2615	QPSK	1	49	23.54	19.61	33	-13.39
	38200	2013	QP3K	25	12	22.62	18.69	33	-14.31
				50	0	22.59	18.66	33	-14.34
				1	0	22.32	18.39	33	-14.61
	37800	2575	16QAM	1	49	22.08	18.15	33	-14.85
	3/800	2575	TOQAW	25	12	21.06	17.13	33	-15.87
			50	0	21.00	17.07	33	-15.93	
				1	0	22.55	18.62	33	-14.38
10	38000	2595	140011	1	49	22.22	18.29	33	-14.71
10	38000	2090	16QAM	25	12	21.16	17.23	33	-15.77
				50	0	21.12	17.19	33	-15.81
				1	0	22.64	18.71	33	-14.29
	38200	2615	16QAM	1	49	22.82	18.89	33	-14.11
	30200	2013	TOQAW	25	12	21.53	17.60	33	-15.4
				50	0	21.50	17.57	33	-15.43
				1	0	22.11	18.18	33	-14.82
	27000	2575	440011	1	49	22.05	18.12	33	-14.88
	37800	2575	64QAM	25	12	21.14	17.21	33	-15.79
				50	0	21.16	17.23	33	-15.77
				1	0	22.22	18.29	33	-14.71
	20000	2505	1	49	22.69	18.76	33	-14.24	
	38000	2595	64QAM	25	12	21.22	17.29	33	-15.71
				50	0	21.11	17.18	33	-15.82
				1	0	22.59	18.66	33	-14.34
	20200	041E	64000	1	49	22.76	18.83	33	-14.17
	38200	2615	64QAM	25	12	21.61	17.68	33	-15.32
				50	0	21.58	17.65	33	-15.35

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Antonno gain (dDi)

Antenna	gain (dBi)	-3.93 LT	E Band 38 L	Jolink	freguen	cy band : 2570) to 2620 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.13	19.20	33	-13.8
	37825	2577.5	QPSK	1	74	23.04	19.11	33	-13.89
	3/023	2377.3	QPSK	36	19	22.02	18.09	33	-14.91
				75	0	22.09	18.16	33	-14.84
				1	0	23.21	19.28	33	-13.72
	38000	2595	QPSK	1	74	23.20	19.27	33	-13.73
	30000	2090	QPSK	36	19	22.22	18.29	33	-14.71
				75	0	22.17	18.24	33	-14.76
				1	0	23.29	19.36	33	-13.64
	20175	2612.5	QPSK	1	74	23.78	19.85	33	-13.15
	38175	2012.3	UPSK	36	19	22.54	18.61	33	-14.39
				75	0	22.50	18.57	33	-14.43
				1	0	22.06	18.13	33	-14.87
	27025	2577 5	140011	1	74	22.14	18.21	33	-14.79
	37825	2577.5	16QAM	36	19	21.08	17.15	33	-15.85
				75	0	21.05	17.12	33	-15.88
			+	1	0	22.22	18.29	33	-14.71
15	20000	2505	1/0414	1	74	22.09	18.16	33	-14.84
15	38000	2595	16QAM	36	19	21.22	17.29	33	-15.71
				75	0	21.17	17.24	33	-15.76
				1	0	22.70	18.77	33	-14.23
	00475	0/40 5	4.0000	1	74	22.28	18.35	33	-14.65
	38175	2612.5	16QAM	36	19	21.57	17.64	33	-15.36
				75	0	21.42	17.49	33	-15.51
				1	0	22.25	18.32	33	-14.68
				1	74	22.10	18.17	33	-14.83
	37825	2577.5	64QAM	36	19	21.19	17.26	33	-15.74
				75	0	21.05	17.12	33	-15.88
				1	0	22.14	18.21	33	-14.79
	00000	0525	,,,,,,,,	1	74	22.66	18.73	33	-14.27
	38000	2595	64QAM	36	19	21.29	17.36	33	-15.64
				75	0	21.22	17.29	33	-15.71
		- - 	1	0	22.58	18.65	33	-14.35	
				1	74	22.82	18.89	33	-14.11
	38175 2612.5 640	64QAM	36	19	21.66	17.73	33	-15.27	
		2017.0		75	0	21.67	17.74	33	-15.26

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3 03 Antonna gain (dRi)

Antenna	gain (dBi)	-3.93 LT	E Band 38 L	Jplink	freauen	cy band : 2570) to 2620 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.38	19.45	33	-13.55
	37850	2580	QPSK	1	99	23.37	19.44	33	-13.56
	37000	2500	QF3K	50	25	22.05	18.12	33	-14.88
				100	0	22.05	18.12	33	-14.88
				1	0	23.39	19.46	33	-13.54
	38000	2595	QPSK	1	99	23.45	19.52	33	-13.48
	30000	2373	QI 3K	50	25	22.11	18.18	33	-14.82
				100	0	22.08	18.15	33	-14.85
				1	0	23.55	19.62	33	-13.38
	38150	2610	QPSK	1	99	23.77	19.84	33	-13.16
	30130	2010	QI SIX	50	25	22.45	18.52	33	-14.48
				100	0	22.44	18.51	33	-14.49
				1	0	22.16	18.23	33	-14.77
	37850	2580	16QAM	1	99	22.07	18.14	33	-14.86
	37030	2300	TOCANI	50	25	21.07	17.14	33	-15.86
				100	0	21.06	17.13	33	-15.87
				1	0	22.18	18.25	33	-14.75
20	38000	2595	16QAM	1	99	22.08	18.15	33	-14.85
20	30000	2373	TOQAWI	50	25	21.08	17.15	33	-15.85
				100	0	21.10	17.17	33	-15.83
				1	0	22.82	18.89	33	-14.11
	38150	2610	16QAM	1	99	22.82	18.89	33	-14.11
	30130	2010	TOQAWI	50	25	21.40	17.47	33	-15.53
				100	0	21.41	17.48	33	-15.52
				1	0	22.10	18.17	33	-14.83
	37850	2580	64QAM	1	99	22.22	18.29	33	-14.71
	37000	2000	O T Q/TIVI	50	25	21.15	17.22	33	-15.78
				100	0	21.16	17.23	33	-15.77
				1	0	22.10	18.17	33	-14.83
	38000	2595	64∩AM	1	99	22.78	18.85	33	-14.15
	38000 2595 64QAM	O T Q/TIVI	50	25	21.18	17.25	33	-15.75	
		100	0	21.17	17.24	33	-15.76		
				1	0	22.66	18.73	33	-14.27
	38150	2610	640AM	1	99	22.96	19.03	33	-13.97
	30130	2010	64QAM	50	25	21.67	17.74	33	-15.26
				100	0	21.62	17.69	33	-15.31

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Antenna gain (dRi) 2 1 5

Antenna	gain (dBi)	-3.15 LT	E Band 41 L	Iplink fr	eguency ban	d : 2496 to 269	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.21	20.06	33	-12.94
	39675	2498.5	QPSK	1	24	22.87	19.72	33	-13.28
	39073	2496.3	UPSK	12	6	22.51	19.36	33	-13.64
				25	0	22.57	19.42	33	-13.58
				1	0	22.64	19.49	33	-13.51
	40620	2593	QPSK	1	24	22.53	19.38	33	-13.62
	40020	2090	UPSK	12	6	22.13	18.98	33	-14.02
				25	0	22.93	19.78	33	-13.22
				1	0	22.65	19.50	33	-13.5
	/1E/E	2407 E	QPSK	1	24	22.73	19.58	33	-13.42
	41565	2687.5	QPSK	12	6	22.90	19.75	33	-13.25
				25	0	22.93	19.78	33	-13.22
				1	0	22.68	19.53	33	-13.47
	20/75	2400 5	1/0414	1	24	22.63	19.48	33	-13.52
	39675 2498.5	16QAM	12	6	21.41	18.26	33	-14.74	
				25	0	21.35	18.20	33	-14.8
		+ +	1/0414	1	0	22.23	19.08	33	-13.92
5	40620	2593		1	24	21.96	18.81	33	-14.19
3	40020	2093	16QAM	12	6	20.98	17.83	33	-15.17
				25	0	21.04	17.89	33	-15.11
				1	0	22.98	19.83	33	-13.17
	41565	2687.5	16QAM	1	24	22.80	19.65	33	-13.35
	41303	2007.3	TOQAW	12	6	21.94	18.79	33	-14.21
				25	0	21.99	18.84	33	-14.16
				1	0	22.49	19.34	33	-13.66
	20475	2498.5	440011	1	24	22.62	19.47	33	-13.53
	39675	2498.5	64QAM	12	6	21.40	18.25	33	-14.75
				25	0	21.16	18.01	33	-14.99
				1	0	22.09	18.94	33	-14.06
	407.20	2502	44000	1	24	21.91	18.76	33	-14.24
	40620	2593	64QAM	12	6	20.83	17.68	33	-15.32
				25	0	20.98	17.83	33	-15.17
				1	0	22.96	19.81	33	-13.19
	41565	2407 5	4 4 O A B 4	1	24	22.60	19.45	33	-13.55
	■ 4 Lbbb	2687.5	64QAM			T		1	
	11000	2007.10	5 / C	12	6	21.93	18.78	33	-14.22

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-3 15 Antenna gain (dBi)

писппа	gain (dBi)	-3.15 LT	E Band 41 U	lplink fr	equency ban	d : 2496 to 269	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.12	19.97	33	-13.03
	20700	2501	ODCK	1	49	22.83	19.68	33	-13.32
	39700	2501	QPSK	25	12	22.45	19.30	33	-13.7
				50	0	22.44	19.29	33	-13.71
				1	0	22.63	19.48	33	-13.52
	407.20	2502	QPSK	1	49	22.59	19.44	33	-13.56
	40620	2593	QPSK	25	12	22.09	18.94	33	-14.06
				50	0	22.05	18.90	33	-14.1
				1	0	23.82	20.67	33	-12.33
	41540	2685	QPSK	1	49	23.64	20.49	33	-12.51
	41340	2000	QPSK	25	12	22.87	19.72	33	-13.28
				50	0	22.83	19.68	33	-13.32
				1	0	22.82	19.67	33	-13.33
	20700	2501	16QAM	1	49	22.44	19.29	33	-13.71
	39700 2501	TOQAIVI	25	12	21.33	18.18	33	-14.82	
			50	0	21.23	18.08	33	-14.92	
				1	0	22.07	18.92	33	-14.08
10	407.20	2502	1/0414	1	49	22.04	18.89	33	-14.11
10	40620	2593	16QAM	25	12	20.95	17.80	33	-15.2
				50	0	20.86	17.71	33	-15.29
				1	0	22.83	19.68	33	-13.32
	41540	2/05	1/0414	1	49	22.84	19.69	33	-13.31
	41540	2685	16QAM	25	12	21.89	18.74	33	-14.26
				50	0	21.91	18.76	33	-14.24
				1	0	22.57	19.42	33	-13.58
	20700	2501	(4000	1	49	22.47	19.32	33	-13.68
	39700	2501	64QAM	25	12	21.33	18.18	33	-14.82
				50	0	21.24	18.09	33	-14.91
				1	0	22.15	19.00	33	-14
	40400	2502	6.4 O A B A	1	49	21.87	18.72	33	-14.28
	40620	2593	64QAM	25	12	20.86	17.71	33	-15.29
				50	0	20.91	17.76	33	-15.24
				1	0	22.90	19.75	33	-13.25
	/1F/O	2/05	4 4 O A B A	1	49	22.73	19.58	33	-13.42
	41540	2685	64QAM	25	12	21.85	18.70	33	-14.3
				50	0	21.92	18.77	33	-14.23

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3 15 Antenna gain (dRi)

Antenna	gain (dBi)	-3.15 I T	F Rand 41 I	Inlink fr	equency han	d : 2496 to 269	Λ MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.19	20.04	33	-12.96
	20725	2502.5	ODCK	1	74	23.04	19.89	33	-13.11
	39725	2503.5	QPSK	36	18	22.57	19.42	33	-13.58
				75	0	22.54	19.39	33	-13.61
				1	0	22.60	19.45	33	-13.55
	40720	2593	QPSK	1	74	22.84	19.69	33	-13.31
	40620	2393	UPSK	36	18	22.18	19.03	33	-13.97
				75	0	22.13	18.98	33	-14.02
				1	0	23.69	20.54	33	-12.46
	/1E1E	2682.5	QPSK	1	74	23.60	20.45	33	-12.55
	41515	2082.3	UPSK	36	18	22.84	19.69	33	-13.31
				75	0	22.88	19.73	33	-13.27
				1	0	22.06	18.91	33	-14.09
	39725 2503.5	16QAM	1	74	22.07	18.92	33	-14.08	
			36	18	21.20	18.05	33	-14.95	
				75	0	21.17	18.02	33	-14.98
			1	0	21.93	18.78	33	-14.22	
15	40720	2502	1/0414	1	74	22.00	18.85	33	-14.15
15	40620	2593	16QAM	36	18	20.82	17.67	33	-15.33
				75	0	20.72	17.57	33	-15.43
				1	0	22.58	19.43	33	-13.57
	41515	2682.5	16QAM	1	74	22.81	19.66	33	-13.34
	41313	2082.3	TOQAIVI	36	18	21.40	18.25	33	-14.75
				75	0	21.45	18.30	33	-14.7
				1	0	22.13	18.98	33	-14.02
	20725	2502.5	(40014	1	74	21.98	18.83	33	-14.17
	39725	2503.5	64QAM	36	18	21.27	18.12	33	-14.88
				75	0	21.16	18.01	33	-14.99
				1	0	21.61	18.46	33	-14.54
	40/00	(40014	1	74	21.45	18.30	33	-14.7	
	40620	2593	64QAM	36	18	20.94	17.79	33	-15.21
				75	0	20.87	17.72	33	-15.28
				1	0	22.45	19.30	33	-13.7
	/1E1E	2/02 5	4 A O A B A	1	74	22.15	19.00	33	-14
	41515	2682.5	64QAM	36	18	21.89	18.74	33	-14.26
				75	0	21.88	18.73	33	-14.27

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3 15 Antenna gain (dRi)

Antenna	gain (dBi)	-3.15 I T	F Rand 41 I	Inlink fr	requency han	d : 2496 to 269	Λ MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.07	19.92	33	-13.08
	20750	2507	ODCK	1	99	22.71	19.56	33	-13.44
	39750	2506	QPSK	50	25	22.95	19.80	33	-13.2
				100	0	22.98	19.83	33	-13.17
				1	0	22.55	19.40	33	-13.6
	40620	2593	QPSK	1	99	22.74	19.59	33	-13.41
	40020	2090	QPSK	50	25	22.64	19.49	33	-13.51
				100	0	22.64	19.49	33	-13.51
				1	0	23.83	20.68	33	-12.32
	41490	2680	QPSK	1	99	23.51	20.36	33	-12.64
	41470	2000	QF3K	50	25	22.92	19.77	33	-13.23
				100	0	22.95	19.80	33	-13.2
				1	0	22.97	19.82	33	-13.18
	39750 2506	16QAM	1	99	22.96	19.81	33	-13.19	
		2500	TOQAW	50	25	21.69	18.54	33	-14.46
				100	0	21.68	18.53	33	-14.47
				1	0	22.71	19.56	33	-13.44
20	40620	2593	16QAM	1	99	22.97	19.82	33	-13.18
20	40020	2575	TOQAW	50	25	21.38	18.23	33	-14.77
				100	0	21.32	18.17	33	-14.83
				1	0	22.90	19.75	33	-13.25
	41490	2680	16QAM	1	99	22.90	19.75	33	-13.25
	41470	2000	TOQAW	50	25	21.95	18.80	33	-14.2
				100	0	21.93	18.78	33	-14.22
				1	0	22.92	19.77	33	-13.23
	39750	2506	64QAM	1	99	22.99	19.84	33	-13.16
	37730	2300	04QAIVI	50	25	20.78	17.63	33	-15.37
				100	0	20.86	17.71	33	-15.29
				1	0	22.72	19.57	33	-13.43
	40620	2593	64QAM	1	99	22.99	19.84	33	-13.16
	40020	2373	04QAW	50	25	20.37	17.22	33	-15.78
				100	0	20.50	17.35	33	-15.65
				1	0	22.93	19.78	33	-13.22
	41490	2680	64QAM	1	99	22.90	19.75	33	-13.25
	71770	2000	UTUMINI	50	25	21.49	18.34	33	-14.66
				100	0	21.39	18.24	33	-14.76

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-5 34 Antenna gain (dBi)

Antenna gain (dBi) -5.34 LTE Band 66_Uplink frequency band : 1710 to 1780 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
				1	0	22.86	17.52	30	-12.48			
	131979	1710.7	QPSK	1	5	22.95	17.61	30	-12.39			
	131979	1710.7	QPSK	3	2	22.85	17.51	30	-12.49			
				6	0	21.94	16.60	30	-13.4			
				1	0	22.98	17.64	30	-12.36			
	132322	1745	QPSK	1	5	22.97	17.63	30	-12.37			
	132322	1743	QPSK	3	2	22.92	17.58	30	-12.42			
				6	0	22.05	16.71	30	-13.29			
				1	0	22.91	17.57	30	-12.43			
	132665	1779.3	QPSK	1	5	22.83	17.49	30	-12.51			
	132003	1779.3	UPSK	3	2	22.84	17.50	30	-12.5			
				6	0	21.85	16.51	30	-13.49			
			1	0	22.21	16.87	30	-13.13				
	121070	1710 7	16QAM	1	5	22.30	16.96	30	-13.04			
	131979 1710.7	TOCAM	3	2	21.99	16.65	30	-13.35				
			6	0	21.17	15.83	30	-14.17				
			1	0	22.29	16.95	30	-13.05				
1 /	12222	1745	1/0004	1	5	22.75	17.41	30	-12.59			
1.4	132322	1745	16QAM	3	2	21.90	16.56	30	-13.44			
				6	0	21.02	15.68	30	-14.32			
				1	0	22.23	16.89	30	-13.11			
	122//5	1770.0	1/0014	1	5	22.27	16.93	30	-13.07			
	132665	1779.3	16QAM	3	2	21.96	16.62	30	-13.38			
				6	0	21.01	15.67	30	-14.33			
				1	0	22.45	17.11	30	-12.89			
	121070	1710 7	/ 40 A N A	1	5	22.06	16.72	30	-13.28			
	131979	1710.7	64QAM	3	2	20.94	15.60	30	-14.4			
				6	0	20.91	15.57	30	-14.43			
				1	0	22.33	16.99	30	-13.01			
	122222	1745	/ 40 ^ ^ ^	1	5	22.31	16.97	30	-13.03			
132322	132322	1745	64QAM	3	2	20.87	15.53	30	-14.47			
				6	0	21.09	15.75	30	-14.25			
				1	0	22.23	16.89	30	-13.11			
	100//5	132665 1779.3 64QAM	/ 40 454	1	5	21.90	16.56	30	-13.44			
	132665 1779.3		3	2	21.03	15.69	30	-14.31				
			6	0	21.03	15.69	30	-14.31				

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5 34 Antenna gain (dRi)

Antenna	gain (dBi)	-5.34 I T	F Band 66 1	Inlink	freguen	cy band : 1710) to 1780 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.01	17.67	30	-12.33
	131987	1711.5	QPSK	1	14	22.83	17.49	30	-12.51
	131707	1711.5	QF3K	8	4	21.92	16.58	30	-13.42
				15	0	21.93	16.59	30	-13.41
				1	0	22.84	17.50	30	-12.5
	132322	1745	QPSK	1	14	22.95	17.61	30	-12.39
	132322	1745	QF3K	8	4	22.02	16.68	30	-13.32
				15	0	22.02	16.68	30	-13.32
				1	0	22.95	17.61	30	-12.39
	132657	1778.5	QPSK	1	14	22.87	17.53	30	-12.47
	132037	1770.3	QPSK	8	4	21.87	16.53	30	-13.47
				15	0	21.88	16.54	30	-13.46
				1	0	22.58	17.24	30	-12.76
	131987	1711.5	16QAM	1	14	22.31	16.97	30	-13.03
	131987	1711.3	TOQAM	8	4	21.02	15.68	30	-14.32
				15	0	21.13	15.79	30	-14.21
				1	0	22.27	16.93	30	-13.07
3	132322	1745	16QAM	1	14	21.79	16.45	30	-13.55
3	132322	1743		8	4	21.18	15.84	30	-14.16
				15	0	20.98	15.64	30	-14.36
				1	0	22.59	17.25	30	-12.75
	132657	1778.5	16QAM	1	14	21.93	16.59	30	-13.41
	132037	1770.5	TOQAW	8	4	21.01	15.67	30	-14.33
				15	0	20.90	15.56	30	-14.44
				1	0	22.54	17.20	30	-12.8
	131987	1711.5	64QAM	1	14	22.07	16.73	30	-13.27
	131707	1711.5	04QAIVI	8	4	20.93	15.59	30	-14.41
				15	0	21.10	15.76	30	-14.24
				1	0	22.44	17.10	30	-12.9
	132322 1745 640	64QAM	1	14	22.29	16.95	30	-13.05	
		1740	U4QAIVI	8	4	20.95	15.61	30	-14.39
				15	0	21.06	15.72	30	-14.28
				1	0	22.18	16.84	30	-13.16
	122657	1770 5 (4004)	640011	1	14	22.00	16.66	30	-13.34
	132657 1778.5	64QAM	8	4	20.84	15.50	30	-14.5	
				15	0	21.08	15.74	30	-14.26

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Antenna	gain (dBi)	-5.34	F Rand 66 I	Inlink	freguen	cy band : 1710) to 1780 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.92	17.58	30	-12.42
	131997	1710 E	ODCK	1	24	22.91	17.57	30	-12.43
	131997	1712.5	QPSK	12	6	21.96	16.62	30	-13.38
				25	0	21.91	16.57	30	-13.43
				1	0	23.08	17.74	30	-12.26
	132322	1745	QPSK	1	24	23.10	17.76	30	-12.24
	132322	1743	UPSK	12	6	22.08	16.74	30	-13.26
				25	0	22.08	16.74	30	-13.26
				1	0	22.99	17.65	30	-12.35
	132647	1777.5	QPSK	1	24	22.94	17.60	30	-12.4
	132047	1///.5	QPSK	12	6	22.08	16.74	30	-13.26
				25	0	22.02	16.68	30	-13.32
			16QAM	1	0	22.43	17.09	30	-12.91
	121007	31997 1712.5 1 <i>6</i>		1	24	21.48	16.14	30	-13.86
	131997 1712.5	TOQAW	12	6	21.17	15.83	30	-14.17	
				25	0	21.11	15.77	30	-14.23
				1	0	22.48	17.14	30	-12.86
5	12222	1745	16QAM	1	24	22.26	16.92	30	-13.08
5	132322	1745	TOQAW	12	6	21.18	15.84	30	-14.16
				25	0	21.17	15.83	30	-14.17
				1	0	22.37	17.03	30	-12.97
	122/17	1777 E	140011	1	24	22.24	16.90	30	-13.1
	132647	1777.5	16QAM	12	6	21.15	15.81	30	-14.19
				25	0	21.17	15.83	30	-14.17
				1	0	22.61	17.27	30	-12.73
	121007	1712.5	64QAM	1	24	22.01	16.67	30	-13.33
	131997	1712.5	04QAIVI	12	6	21.05	15.71	30	-14.29
				25	0	20.99	15.65	30	-14.35
				1	0	22.42	17.08	30	-12.92
	12222	1745	1745	1	24	22.35	17.01	30	-12.99
	132322 1745	1745	64QAM	12	6	20.91	15.57	30	-14.43
				25	0	21.05	15.71	30	-14.29
				1	0	22.23	16.89	30	-13.11
	122447	1777 F	44000	1	24	21.92	16.58	30	-13.42
	132647 1777.5	64QAM	12	6	20.92	15.58	30	-14.42	
				25	0	21.01	15.67	30	-14.33

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5 2/ Antonna gain (dRi)

Antenna	Antenna gain (dBi) -5.34 LTE Band 66_Uplink frequency band : 1710 to 1780 MHz												
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Cy band : 17 ft Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)				
				1	0	23.09	17.75	30	-12.25				
	100000	4745	0001	1	49	22.91	17.57	30	-12.43				
	132022	1715	QPSK	25	12	21.93	16.59	30	-13.41				
				50	0	21.86	16.52	30	-13.48				
				1	0	22.98	17.64	30	-12.36				
	12222	1745	ODCK	1	49	23.04	17.70	30	-12.3				
	132322	1745	QPSK	25	12	22.02	16.68	30	-13.32				
				50	0	22.01	16.67	30	-13.33				
				1	0	23.26	17.92	30	-12.08				
	122422	1775	QPSK	1	49	22.91	17.57	30	-12.43				
	132622	1775	QP3K	25	12	21.92	16.58	30	-13.42				
				50	0	21.95	16.61	30	-13.39				
				1	0	22.60	17.26	30	-12.74				
	132022 1715	16QAM	1	49	22.62	17.28	30	-12.72					
		1713	ToQAWI	25	12	20.99	15.65	30	-14.35				
				50	0	20.89	15.55	30	-14.45				
				1	0	22.46	17.12	30	-12.88				
10	132322	1745	16QAM	1	49	22.44	17.10	30	-12.9				
10	132322	1743	TOQAW	25	12	21.12	15.78	30	-14.22				
				50	0	21.03	15.69	30	-14.31				
				1	0	22.65	17.31	30	-12.69				
	132622	1775	16QAM	1	49	22.09	16.75	30	-13.25				
	132022	1773	TOQAW	25	12	20.96	15.62	30	-14.38				
				50	0	20.95	15.61	30	-14.39				
				1	0	22.44	17.10	30	-12.9				
	132022	1715	64QAM	1	49	21.97	16.63	30	-13.37				
	132022	1715	UTQAW	25	12	20.93	15.59	30	-14.41				
				50	0	20.94	15.60	30	-14.4				
				1	0	22.49	17.15	30	-12.85				
	132322 1745 64Q	64QAM	1	49	22.37	17.03	30	-12.97					
	102022	1775	O TQ/TIVI	25	12	20.94	15.60	30	-14.4				
				50	0	20.92	15.58	30	-14.42				
				1	0	22.25	16.91	30	-13.09				
	132622	1775	64∩AM	1	49	22.03	16.69	30	-13.31				
	132022	132622 1775	64QAM	25	12	21.02	15.68	30	-14.32				
				50	0	21.04	15.70	30	-14.3				

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Antenna gain (dRi) -5 34

Antenna	gain (dBi)	-5.34 LT	E Band 66 L	Jplink	freguen	cy band : 1710) to 1780 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	23.25	17.91	30	-12.09	
	122047	1717 5	ODCK	1	74	22.87	17.53	30	-12.47	
	132047	1717.5	QPSK	36	18	22.02	16.68	30	-13.32	
				75	0	22.00	16.66	30	-13.34	
				1	0	23.18	17.84	30	-12.16	
	132322	1745	QPSK	1	74	22.97	17.63	30	-12.37	
	132322	1743	UPSK	36	18	21.97	16.63	30	-13.37	
				75	0	22.00	16.66	30	-13.34	
				1	0	23.12	17.78	30	-12.22	
	132597	1772.5	QPSK	1	74	22.75	17.41	30	-12.59	
	132371	1772.3	QF3K	36	18	21.91	16.57	30	-13.43	
				75	0	21.99	16.65	30	-13.35	
				1	0	22.54	17.20	30	-12.8	
	132047 1717.5	16QAM	1	74	21.99	16.65	30	-13.35		
		1717.5	TOQAW	36	18	21.05	15.71	30	-14.29	
				75	0	21.01	15.67	30	-14.33	
			1	0	22.64	17.30	30	-12.7		
15	132322	1745	16QAM	1	74	22.14	16.80	30	-13.2	
13	132322	1743	TOQAW	36	18	21.15	15.81	30	-14.19	
				75	0	21.06	15.72	30	-14.28	
				1	0	22.53	17.19	30	-12.81	
	132597	1772.5	16QAM	1	74	22.33	16.99	30	-13.01	
	102077	1772.0	100/11/1	36	18	20.99	15.65	30	-14.35	
				75	0	21.00	15.66	30	-14.34	
				1	0	22.55	17.21	30	-12.79	
	132047	1717.5	64QAM	1	74	21.89	16.55	30	-13.45	
	102017	1717.0	0 1 (2) 1111	36	18	20.93	15.59	30	-14.41	
				75	0	20.95	15.61	30	-14.39	
				1	0	22.40	17.06	30	-12.94	
	132322 1745	64QAM	1	74	22.25	16.91	30	-13.09		
	102022	1,710	5 1 Q1 ((V)	36	18	20.88	15.54	30	-14.46	
				75	0	20.97	15.63	30	-14.37	
				1	0	22.11	16.77	30	-13.23	
	132597	1772 5	1772.5 640AM	1	74	22.02	16.68	30	-13.32	
	102077	132597 1772.5	1772.5 64QAN	5 1 Q1 ((V)	36	18	20.92	15.58	30	-14.42
				75	0	21.04	15.70	30	-14.3	

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Antenna	gain (dBi)	-5.34	T Dand //_L	امانماد	from	ou bond - 1710) to 1700 MILL		
		LI	E Band 66_U	Jpiink	rrequen	cy band : 1710	EIRP	EIRP	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	Average (dBm)	Limit (dBm)	Margin (dB)
				1	0	22.99	17.65	30	-12.35
	122072	1700	ODCK	1	99	23.04	17.70	30	-12.3
	132072	1720	QPSK	50	25	22.00	16.66	30	-13.34
				100	0	22.11	16.77	30	-13.23
				1	0	23.09	17.75	30	-12.25
	12222	1745	QPSK	1	99	23.03	17.69	30	-12.31
	132322	1745	QPSK	50	25	21.97	16.63	30	-13.37
				100	0	22.04	16.70	30	-13.3
				1	0	23.06	17.72	30	-12.28
	132572	1770	QPSK	1	99	23.05	17.71	30	-12.29
	132372	1770	QPSK	50	25	22.02	16.68	30	-13.32
				100	0	22.09	16.75	30	-13.25
				1	0	22.63	17.29	30	-12.71
122072	1720	16QAM	1	99	22.09	16.75	30	-13.25	
	132072	1720	ToQAIVI	50	25	21.08	15.74	30	-14.26
				100	0	21.10	15.76	30	-14.24
				1	0	22.50	17.16	30	-12.84
20	132322	1745	140011	1	99	22.45	17.11	30	-12.89
20	132322	1745	16QAM	50	25	21.05	15.71	30	-14.29
				100	0	21.10	15.76	30	-14.24
				1	0	22.31	16.97	30	-13.03
	122572	1770	140011	1	99	22.09	16.75	30	-13.25
	132572	1770	16QAM	50	25	21.03	15.69	30	-14.31
				100	0	21.15	15.81	30	-14.19
				1	0	22.53	17.19	30	-12.81
	132072	1720	64QAM	1	99	22.06	16.72	30	-13.28
	132072	1720	04QAIVI	50	25	20.89	15.55	30	-14.45
				100	0	20.99	15.65	30	-14.35
				1	0	22.31	16.97	30	-13.03
	122222	17/15	64000	1	99	22.27	16.93	30	-13.07
	132322	1745	64QAM	50	25	21.01	15.67	30	-14.33
				100	0	20.98	15.64	30	-14.36
				1	0	22.24	16.90	30	-13.1
	120570	1770	4 4 🔿 ۸ ۸ 4	1	99	22.07	16.73	30	-13.27
	132572 1770	64QAM	50	25	20.86	15.52	30	-14.48	
				100	0	21.14	15.80	30	-14.2

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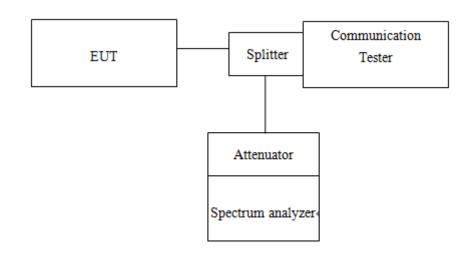
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OCCUPIED BANDWIDTH MEASUREMENT

7.1. 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.

7.2. Test Set-up



7.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

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

99% Bandwidth with detector sample

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

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7.4. Measurement Equipment Used

Condu	Conducted Emission (measured at antenna port) Test Site											
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.							
TYPE		NUMBER	NUMBER	CAL.								
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19							
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14							
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29							
Attenuator	Marvelous	MVE2213-1 0	RF30	2017/12/26	2018/12/25							
Splitter	Woken	DOM35LW1 A2	RF36	2017/12/26	2018/12/25							
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25							

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7.5. Measurement Result

Erog		999	% BW (MH	z)	26 dB BW (MHz)			
Freq. (MHz)	СН	WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II	
1852.40	9262	4.07530	4.07920	4.07880	4.642	4.663	4.667	
1880.00	9400	4.09130	4.08470	4.07950	4.704	4.672	4.697	
1907.60	9538	4.08850	4.09220	4.09160	4.699	4.707	4.686	

Freq.		999	% BW (MH	z)	26 dB BW (MHz)			
(MHz)	CH	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA	
(IVITIZ)		IV	IV	IV	IV	IV	IV	
1712.40	1312	4.05630	4.07330	4.06940	4.609	4.601	4.613	
1732.60	1413	4.07070	4.07930	4.08020	4.638	4.648	4.644	
1752.60	1513	4.07070	4.06230	4.06760	4.616	4.608	4.621	

Freq.		999	% BW (MH	z)	26 dB BW (MHz)			
(MHz)	CH	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA	
(IVITIZ)		V	V	V	V	V	V	
826.40	4132	4.08860	4.09120	4.08890	4.640	4.701	4.680	
836.60	4183	4.07990	4.07720	4.08990	4.729	4.700	4.723	
846.60	4233	4.09280	4.10320	4.09750	4.920	4.787	4.936	

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	LTE BAND 2 Channel bandwidth: 1.4MHz											
Freq.							Hz)					
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1850.7	18607	1.1128	1.1079	1.1048	1.264	1.267	1.254					
1880.0	18900	1.1081	1.1114	1.1062	1.256	1.263	1.254					
1909.3	19193	1.1114	1.1170	1.1041	1.527	1.265	1.253					

LTE BAND 2 Channel bandwidth: 3MHz											
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)								
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1851.5	18615	2.7279	2.7235	2.7164	3.142	3.013	3.011				
1880.0	18900	2.7314	2.7304	2.7282	3.202	3.202	3.364				
1908.5	19185	2.7320	2.7204	2.7249	3.379	2.989	3.003				

-											
I	LTE BAND 2 Channel bandwidth: 5MHz										
ſ	Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)							
	(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
I	1852.5	18625	4.5455	4.5231	4.5132	5.301	4.956	5.013			
I	1880.0	18900	4.5508	4.5265	4.6318	5.085	5.172	9.528			
I	1907.5	19175	4.5461	4.5233	4.5685	5.762	5.150	8.838			

	LTE BAND 2 Channel bandwidth: 10MHz											
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)									
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1855.0	18650	9.0872	9.1311	9.0871	10.606	10.605	10.569					
1880.0	18900	9.1014	9.1196	9.3239	10.659	10.418	16.926					
1905.0	19150	9.0542	9.0620	9.0882	10.583	10.571	10.482					

	LTE BAND 2 Channel bandwidth: 15MHz											
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz									
(MHz)	CH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1857.5	18675	13.627	13.584	13.544	16.100	15.946	16.087					
1880.0	18900	13.535	13.576	13.555	15.697	16.333	15.463					
1902.5	19125	13.488	13.524	13.494	16.020	16.065	15.641					

	LTE BAND 2 Channel bandwidth: 20MHz											
Freq.	СН	99	% BW (MF	łz)	26 dB BW (MHz)							
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1860.0	18700	18.109	18.054	18.046	20.352	20.079	20.261					
1880.0	18900	18.015	18.054	17.996	20.645	20.817	23.629					
1900.0	19100	18.005	18.005 17.934 17.934 20.233 19.933 19.									

	LTE BAND 4 Channel bandwidth: 1.4MHz											
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)									
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1710.7	19957	1.1069	1.1142	1.1042	1.265	1.264	1.793					
1732.5	20175	1.1105	1.1096	1.1101	1.256	1.256	0.000					
1754.3	20393	1.1052	1.1077	1.1073	1.258	1.255	0.000					

	LTE BAND 4 Channel bandwidth: 3MHz											
Freq. CH		99% BW (MHz)			26 dB BW (MHz)							
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1711.5	19965	2.7209	2.7218	2.7139	3.004	3.023	3.003					
1732.5	20175	2.7136	2.7199	2.7243	3.031	3.012	3.009					
1753.5	20385	2.7341	2.7201	2.7170	3.006	3.020	2.998					

	LTE BAND 4 Channel bandwidth: 5MHz											
Freq.	СН	99	9% BW (MI	dB BW (M	Hz)							
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1712.5	19957	4.5159	4.5235	4.5131	5.009	4.985	4.954					
1732.5	20175	4.5307	4.5179	4.5183	4.960	4.969	5.606					
1752.5	20375	4.5248	4.5066	4.5067	5.027	4.961	4.966					

	LTE BAND 4 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1715.0	20000	9.0816	9.0447	9.0517	10.533	10.408	10.535				
1732.5	20175	9.0700	9.0917	9.0908	10.470	10.608	10.356				
1750.0	20350	9.0444	9.0718	9.0601	10.423	10.550	10.569				

	LTE BAND 4 Channel bandwidth: 15MHz										
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)								
Freq. (MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1717.5	20025	13.518	13.498	13.512	15.476	15.598	15.477				
1732.5	20175	13.578	13.573	13.559	15.939	15.955	15.679				
1747.5	20325	13.562	13.517	13.553	15.791	15.774	15.878				

	LTE BAND 4 Channel bandwidth: 20MHz										
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)								
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1720.0	20050	17.932	17.950	17.907	19.932	20.025	22.815				
1732.5	20175	18.084	18.033	18.039	20.078	20.075	19.835				
1745.0	20300	18.033	18.070	18.060	20.209	20.128	20.185				

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	LTE BAND 5 Channel bandwidth: 1.4MHz										
Freq.	Freq. CH 99% BW (MHz) 26 dB BW (MHz)						Hz)				
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
824.7	20407	1.1084	1.1197	1.1103	1.256	1.479	1.258				
836.5	20525	1.1133	1.1214	1.1032	1.270	1.855	1.259				
848.3	20643	1.1282	1.1489	1.1132	1.793	2.217	1.703				

LTE BAND 5 Channel bandwidth: 3MHz										
Freq. (MHz)	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
825.5	20415	2.7343	2.7230	2.7228	3.115	3.011	3.004			
836.5	20525	2.7193	2.7321	2.7189	3.111	3.651	3.010			
847.5	20635	2.7363	2.7293	2.7239	3.451	3.783	3.217			

Г	LTE DAND E Channel handwidth, EMIL										
L	LTE BAND 5 Channel bandwidth: 5MHz										
	Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
L	(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
	826.5	20425	4.5364	4.5258	4.5333	5.020	4.968	4.926			
	836.5	20525	4.5144	4.5123	4.5063	4.975	6.279	5.101			
	846.5	20625	4.5439	4.5488	4.5383	5.358	6.257	4.959			

LTE BAND 5 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
829.0	20450	9.1385	9.1424	9.1274	10.557	10.683	10.610			
836.5	20525	9.0312	9.0647	9.0115	10.422	10.579	10.589			
844.0	20600	9.1923	9.2590	9.1543	11.379	13.790	10.920			

	LTE BAND 7 Channel bandwidth: 5MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
2502.5	20775	4.5473	4.5375	4.5267	6.805	6.361	6.016				
2535.0	21100	4.5384	4.5070	4.5180	5.034	4.944	4.924				
2567.5	21425	4.5289	4.5185	4.5278	5.565	4.930	4.967				

	LTE BAND 7 Channel bandwidth: 10MHz										
Freq.	СН	99	9% BW (MI	Hz)	26	26 dB BW (MHz)					
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
2505.0	20800	9.1117	9.0956	9.1393	12.068	11.802	12.991				
2535.0	21100	9.0671	9.0397	9.0653	10.474	10.466	10.586				
2565.0	21400	9.0721	9.0622	9.0799	10.474	10.607	10.679				

	LTE BAND 7 Channel bandwidth: 15MHz									
Freq.	СН	99	9% BW (MI	Hz)	26 dB BW (MHz)					
(MHz)	CH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
2507.5	20825	13.587	13.572	13.593	17.419	16.774	23.326			
2535.0	21100	13.590	13.547	13.568	15.795	15.784	15.781			
2562.5	21375	13.569	13.529	13.558	15.731	15.711	16.186			

LTE BAND 7 Channel bandwidth: 20MHz										
Freq. (MHz)	СН	99	99% BW (MHz) 26 dB BW (MHz)							
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
2510.0	20850	18.059	18.017	18.122	22.170	21.347	27.900			
2535.0	21100	18.043	18.028	18.027	20.296	20.126	20.311			
2560.0	21350	18.036	18.021	18.054	20.437	22.428	20.425			

LTE BAND 12 Channel bandwidth: 1.4MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
699.7	23017	1.1059	1.1156	1.1027	1.266	1.444	1.262			
707.5	23095	1.1043	1.1110	1.1010	1.244	1.252	1.256			
715.3	23173	1.1058	1.1122	1.1102	1.313	1.431	1.255			

LTE BAND 12 Channel bandwidth: 3MHz											
Freq.	СН	99	% BW (MH	lz)	26 dB BW (MHz)						
(MHz)	CH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
700.5	23025	2.7189	2.7238	2.7147	3.021	3.013	3.002				
707.5	23095	2.7077	2.7189	2.7109	3.000	3.016	3.002				
714.5	23165	2.7251	2.7312	2.7162	3.008	3.019	2.990				

	LTE BAND 12 Channel bandwidth: 5MHz										
Freq.	СН	99	9% BW (MI	Hz)	26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
701.5	23035	4.5354	4.5325	4.5101	5.002	5.191	4.935				
707.5	23095	4.5100	4.5065	4.5057	4.935	4.925	4.919				
713.5	23155	4.5589	4.5314	4.5219	5.136	6.238	4.952				

	LTE BAND 12 Channel bandwidth: 10MHz										
Freq.	СН	99	% BW (MH	lz)	26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
704.0	23060	9.1326	9.1628	9.1172	10.448	10.883	10.560				
707.5	23095	9.0272	9.0492	9.0370	10.400	10.466	10.397				
711.0	23130	9.0291	9.0278	9.0323	10.448	10.355	10.406				

	LTE BAND 13 Channel bandwidth: 5MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
779.5	23205	4.5295	4.5254	4.5483	5.001	4.949	5.105				
782.0	23230	4.4977	4.5084	4.5213	4.915	4.939	6.189				
784.5	23255	4.5048	4.5126	4.5089	4.943	4.914	6.027				

LIE BAND 13 Channel bandwidth: 10MHz											
Freq. (MHz)	99% BW (MHz)			26 dB BW (MHz)							
CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
23230	9.014	9.010	9.039	10.378	10.425	10.671					
	CH 23230	CH QPSK	CH	CH 99% BW (MHz) QPSK 16QAM 64QAM	CH 99% BW (MHz) 26 QPSK 16QAM 64QAM QPSK	CH QPSK 16QAM 64QAM QPSK 16QAM					

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	LTE BAND 14 Channel bandwidth: 5MHz											
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)							
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
790.5	23305	4.5310	4.5316	4.5211	5.795	6.477	5.783					
793.0	23330	4.5469	4.5312	4.5010	5.904	6.977	4.934					
795.5	23355	4.5352	4.5436	4.5199	6.056	7.192	6.154					

LTE BAND 14 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
793.0	23330	9.032	9.056	9.074	11.030	11.390	16.460			

	LTE BAND 17 Channel bandwidth: 5MHz											
Freq 99% RW (MHz) 26 dB RW (MHz)												
(MHz)	СН	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
706.5	23755	4.5170	4.5074	4.5132	4.962	4.931	4.948					
710.0	23790	4.5154	4.5137	4.5062	4.965	4.941	4.949					
713.5	23825	4.5328	4.5317	4.5174	4.973	6.069	4.977					

	LTE BAND 17 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
709.0	23780	9.0193	9.0098	9.0484	10.538	10.400	10.411				
710.0	23790	9.0160	9.0222	9.0065	10.363	10.429	10.389				
711.0	23800	9.0253	9.0650	9.0275	10.437	10.558	10.485				

_											
	LTE BAND 25 Channel bandwidth: 1.4MHz										
	Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
	(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
	1850.7	26047	1.1148	1.1034	1.1043	1.257	1.262	1.245			
	1882.5	26365	1.1043	1.1038	1.1011	1.254	1.247	1.254			
	1914.3	26683	1.1245	1.1047	1.1054	1.972	1.271	1.256			

	LTE BAND 25 Channel bandwidth: 3MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1851.5	26055	2.7231	2.7312	2.7089	3.143	3.067	3.000				
1882.5	26365	2.7269	2.7210	2.7232	3.023	3.004	2.997				
1913.5	26675	2.7366	2.7214	2.7188	3.826	3.021	2.983				

	LTE BAND 25 Channel bandwidth: 5MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1852.5	26065	4.5314	4.5136	4.5002	5.142	4.966	4.936				
1882.5	26365	4.5134	4.5059	4.4948	4.991	4.947	4.956				
1912.5	26665	4.5246	4.5078	4.4985	4.979	5.087	4.918				

	LTE BAND 25 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1855.0	26090	9.0846	9.0681	9.0383	10.604	10.530	10.408				
1882.5	26365	9.0879	9.0488	9.0451	10.602	10.506	10.428				
1910.0	26640	9.0458	9.0234	9.0539	10.667	10.430	10.531				

	LTE BAND 25 Channel bandwidth: 15MHz										
Freq. CH		99% BW (MHz)			26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1857.5	26115	13.608	13.575	13.534	15.811	15.797	15.519				
1882.5	26365	13.548	13.545	13.504	15.608	15.821	15.480				
1907.5	26615	13.552	13.549	13.558	16.366	16.120	15.556				

LTE BAND 25 Channel bandwidth: 20MHz							
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)		
(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	26140	18.0250	17.9860	17.9860	21.009	20.096	19.872
1882.5	26365	18.0080	17.9810	17.9840	19.932	19.941	19.869
1905.0	26590	18.0540	18.0190	18.0140	20.242	20.054	19.750

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-												
I	LTE BAND 26 Channel bandwidth: 1.4MHz											
I	Freq.	СН	99	9% BW (MI	Hz)	26 dB BW (MHz)						
l	(MHz)	MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
I	824.7	26797	1.1024	1.1012	1.1020	1.258	1.255	1.249				
I	836.5	26915	1.1078	1.1047	1.1063	1.271	1.268	1.258				
ĺ	848.3	27033	1.1275	1.1341	1.1125	1.881	1.590	1.573				

-											
	LTE BAND 26 Channel bandwidth: 3MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
825.5	26805	2.7360	2.7208	2.7253	3.102	3.018	3.002				
836.5	26915	2.7234	2.7290	2.7199	3.173	3.064	2.995				
847.5	27025	2.7255	2.7402	2.7142	3.294	4.111	3.000				

	LTE BAND 26 Channel bandwidth: 5MHz									
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
826.5	26815	4.5255	4.5223	4.5191	4.957	4.954	4.940			
836.5	26915	4.5181	4.5252	4.5118	5.185	5.101	4.952			
846.5	27015	4.5307	4.5348	4.5196	5.221	5.417	4.943			

	LTE BAND 26 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
829.0	26840	9.1082	9.0938	9.1178	10.554	10.504	10.486				
836.5	26915	9.0149	9.0112	9.0327	10.288	10.580	10.343				
844.0	26990	9.1680	9.1795	9.1676	10.998	11.958	10.549				

	LTE BAND 26 Channel bandwidth: 15MHz										
Freq. (MHz)	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
831.5	26865	13.594	13.616	13.612	15.534	16.097	15.790				
836.5	26915	13.441	13.464	13.464	15.533	15.515	15.321				
841.5	26965	13.578	13.592	13.542	15.693	15.797	15.747				

	LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz											
Freq.	СН	99	9% BW (MI	Hz)	26 dB BW (MHz)							
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
814.7	26697	1.1080	1.1052	1.0990	1.252	1.254	1.257					
819.0	26740	1.1077	1.1086	1.1089	1.564	1.259	1.440					
823.3	26783	1.1126	1.1146	1.1101	1.279	1.266	1.253					

	LTE BAND 26 for part 90S Channel bandwidth: 3MHz										
Freq.	СН	99	9% BW (MI	Hz)	26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
815.5	26705	2.7220	2.7231	2.7118	2.987	3.011	2.998				
819.0	26740	2.7226	2.7313	2.7199	3.133	3.287	3.007				
822.5	26775	2.7366	2.7294	2.7231	3.533	3.250	3.010				

	LTE BAND 26 for part 90S Channel bandwidth: 5MHz											
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
816.5	26715	4.5228	4.5259	4.5124	5.107	5.008	5.008					
819.0	26740	4.5202	4.5056	4.5103	4.959	4.977	5.209					
821.5	26765	4.5420	4.5313	4.5031	5.633	5.795	4.950					

	LTE BAND 26 for part 90S Channel bandwidth: 10MHz											
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)							
Freq. (MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
819.0	26740	9.0343	9.0116	9.0237	10.378	10.482	10.465					

	LTE BAND 30 Channel bandwidth: 5MHz											
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)									
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
2307.5	27685	4.5096	4.5011	4.5072	4.993	4.920	4.957					
2310.0	27710	4.5283	4.5050	4.5107	5.041	4.947	4.937					
2312.5	27735	4.5323	4.5210	4.5171	5.095	4.947	4.924					

	LTE BAND 30 Channel bandwidth: 10MHz											
Freq.	CII	99% BW (MHz)			26 dB BW (MHz)							
(MHz)	СН	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM					
2310.0	27710	9.0860	9.0682	9.0546	10.579	10.601	10.309					

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	LTE BAND 38 Channel bandwidth: 5MHz											
Freq.	СН	99	% BW (MI	BW (MHz)		26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
2572.5	37775	4.5361	4.5155	4.5010	5.112	4.934	4.896					
2595.0	38000	4.5189	4.5360	4.5169	5.104	6.367	4.950					
2617.5	38225	4.5327	4.5947	4.5243	4.930	8.567	4.920					

	LTE BAND 38 Channel bandwidth: 10MHz										
Freq.	СН	99	99% BW (MHz)		26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
2575.0	37800	9.0721	9.1347	9.0068	10.529	12.479	10.362				
2595.0	38000	9.0363	9.0669	9.0446	10.423	12.087	10.480				
2615.0	38200	9.0428	9.1996	9.0433	10.415	17.392	10.438				

	LTE BAND 38 Channel bandwidth: 15MHz									
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	Сп	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
2577.5	37825	13.522	13.583	13.498	16.129	16.499	15.664			
2595.0	38000	13.557	13.632	13.504	15.747	18.429	15.352			
2612.5	38175	13.518	13.676	13.495	15.521	25.523	15.407			

	LTE BAND 38 Channel bandwidth: 20MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	CII	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
2580.0	37850	17.976	18.143	17.959	19.913	23.668	21.163				
2595.0	38000	17.995	18.085	17.950	19.853	25.024	19.643				
2610.0	38150	17.965	18.126	17.977	19.954	34.925	20.696				

	LTE BAND 41 Channel bandwidth: 5MHz									
Freq.	СН	99	9% BW (MI	Hz)	26	dB BW (M	lHz)			
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
2498.5	39675	4.5258	4.5284	4.5016	5.313	6.684	4.930			
2593.0	40620	4.5177	4.5149	4.5198	4.973	4.944	4.892			
2687.5	41565	4.5186	4.5113	4.5081	4.987	4.927	5.084			

	LTE BAND 41 Channel bandwidth: 10MHz										
Freq.	СН	99	% BW (MH	lz)	26	dB BW (M	lHz)				
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
2501.0	39700	9.0703	9.0757	9.0394	10.553	11.026	10.483				
2593.0	40620	9.0466	9.0908	9.0367	10.423	10.442	10.461				
2685.0	41540	9.0604	9.0719	9.0227	10.478	11.507	10.322				

LTE BAN	ID 11 Chan	and the second of							
LTE BAND 41 Channel bandwidth: 15MHz									
90	99% BW (MHz)			26 dB BW (MHz)					
QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
5 13.519	13.534	13.483	16.041	15.720	14.919				
13.566	13.588	13.560	15.817	16.065	15.821				
5 13.508	13.564	13.484	15.950	16.018	15.879				
LTE BAN	ID 66 Char	nel bandw	idth: 1.4N	1Hz					
9'	9% BW (M	Hz)	26 dB BW (MHz)						
QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
9 1.1090	1.1079	1.1017	1.254	1.256	1.257				
2 1.1051	1.1128	1.1056	1.253	1.254	1.252				
5 1.1036	1.1116	1.1022	1.254	1.257	1.251				
7	QPSK 5 13.519 0 13.566 5 13.508 LTE BAN 9' QPSK 79 1.1090 22 1.1051	QPSK 16QAM 5 13.519 13.534 0 13.566 13.588 5 13.508 13.564 LTE BAND 66 Char 99% BW (M QPSK 16QAM 79 1.1090 1.1079 22 1.1051 1.1128	QPSK 16QAM 64QAM 5 13.519 13.534 13.483 0 13.566 13.588 13.560 5 13.508 13.564 13.484 LTE BAND 66 Channel bandw 99% BW (MHz) QPSK 16QAM 64QAM 79 1.1090 1.1079 1.1017 22 1.1051 1.1128 1.1056	QPSK 16QAM 64QAM QPSK 13.519 13.534 13.483 16.041 0 13.566 13.588 13.560 15.817 5 13.508 13.564 13.484 15.950 LTE BAND 66 Channel bandwidth: 1.4M 99% BW (MHz) 26 QPSK 16QAM 64QAM QPSK 79 1.1090 1.1079 1.1017 1.254 22 1.1051 1.1128 1.1056 1.253	QPSK 16QAM 64QAM QPSK 16QAM 5 13.519 13.534 13.483 16.041 15.720 0 13.566 13.588 13.560 15.817 16.065 5 13.508 13.564 13.484 15.950 16.018 LTE BAND 66 Channel bandwidth: 1.4MHz 99% BW (MHz) 26 dB BW (Notes) 26 dB BW (Notes) QPSK 16QAM 64QAM QPSK 16QAM 79 1.1090 1.1079 1.1017 1.254 1.256 22 1.1051 1.1128 1.1056 1.253 1.254				

	LTE BAND 41 Channel bandwidth: 20MHz									
Freq.	СН	99	99% BW (MHz)		26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
2506.0	39750	18.021	18.065	17.954	20.495	20.609	20.318			
2593.0	40620	18.084	18.006	17.968	19.836	21.054	19.879			
2680.0	41490	17.991	18.024	17.984	19.852	20.178	20.700			
		LTE BAN	ID 66 Char	nnel bandv	vidth: 3MF	ŀΖ				
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)				
	. U.H									

	LTE BAND 66 Channel bandwidth: 5MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
		4.5077		4.5005	4.944	4.990	4.955				
1745.0	132322	4.5150	4.5332	4.5014	4.996	4.945	4.962				
1777.5	132647	4 5151	4 5255	4 5027	4 993	4 992	4 936				

(MHz)	СН	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
1711.5	131987	2.7205	2.7196	2.7194	3.004	2.998	3.015			
1745.0	132322	2.7177	2.7122	2.7081	3.006	3.006	2.996			
1778.5	132657	2.7179	2.7204	2.7111	3.011	3.019	3.013			
	LTE BAND 66 Channel bandwidth: 10MHz									
Freq.	CII	99	99% BW (MHz) 26 dB BW (M				lHz)			

16QAM

9.0368

9.0818

9.0668

64QAM

9.0231

9.0677

9.1075

QPSK

10.417

10.482

10.561

16QAM

10.466

10.569

10.565

64QAM

13.179

10.551

10.450

	LTE BAND 66 Channel bandwidth: 15MHz										
Freq.	СН	99	99% BW (MHz)			26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1717.5	132047	13.4790	13.4720	13.4820	15.661	15.578	15.326				
1745.0	132322	13.5470	13.5440	13.5560	15.948	15.862	15.638				
1772.5	132597	13.5420	13.5530	13.5470	15.768	15.619	15.376				

LTE BAND 66 Channel bandwidth: 20MHz									
Freq. (MHz)	СН	99	99% BW (MHz)		26 dB BW (MHz)				
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM		
1720.0	132072	17.9450	17.9440	17.9520	19.911	19.862	20.889		
1745.0	132322	18.0340	18.0310	18.0220	20.465	20.090	20.036		
1770.0	132572	18.0130	18.0090	17.9530	20.506	20.182	19.995		

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

台灣檢驗科技股份有限公司

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(MHz)

1715.0

1745.0

1775.0

СН

132022

132322

132622

QPSK

9.0283

9.0612

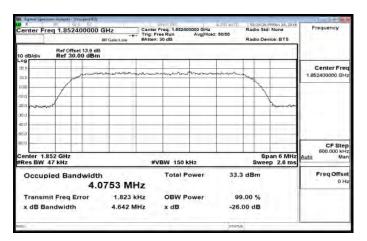
9.0835

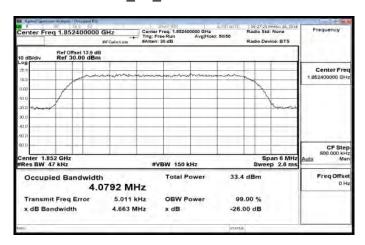


WCDMA B2 LowCH9262-1852.4

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HSDPA B2 LowCH9262-1852.4





WCDMA_B2_MidCH9400-1880

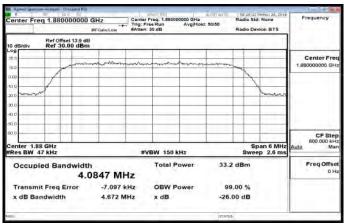
er Freq 1.880000000 GHz Center Fre

99.00 %

-26.00 dB

CF Step 500.000 kH

HSDPA_B2_MidCH9400-1880



WCDMA_B2_HighCH9538-1907.6

#VBW 150 kHz

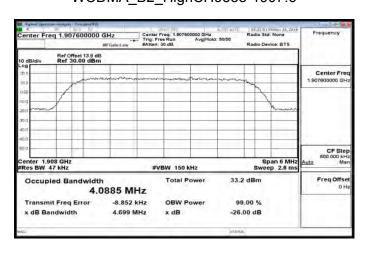
x dB

Occupied Bandwidth

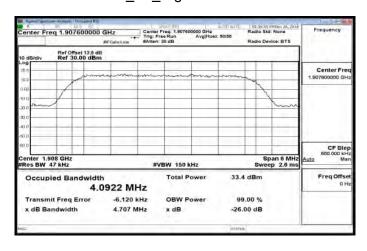
x dB Bandwidth

4.0913 MHz

4.704 MHz



HSDPA_B2_HighCH9538-1907.6



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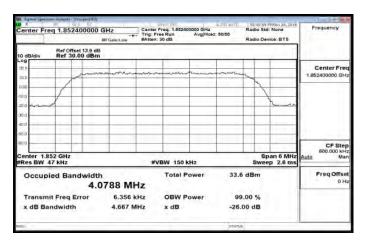
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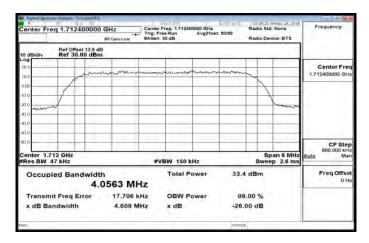


HSUPA B2 LowCH9262-1852.4

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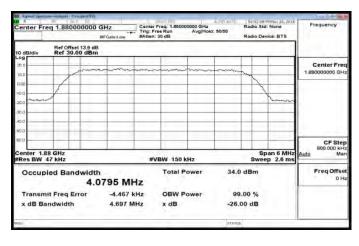
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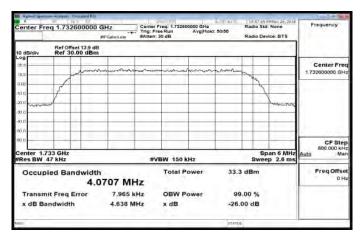




HSUPA_B2_MidCH9400-1880

WCDMA_B4_MidCH1413-1732.6

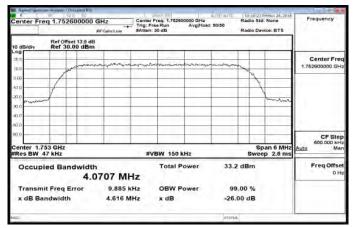




HSUPA_B2_HighCH9538-1907.6

WCDMA_B4_HighCH1513-1752.6





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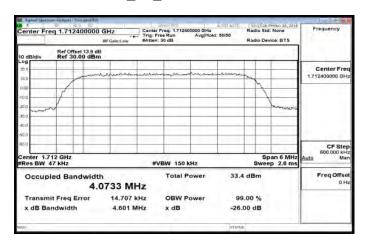
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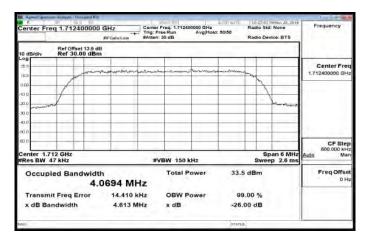


HSDPA B4 LowCH1312-1712.4

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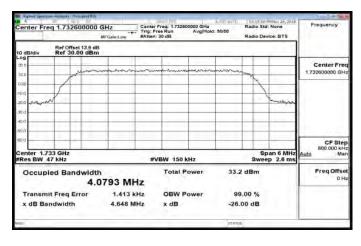
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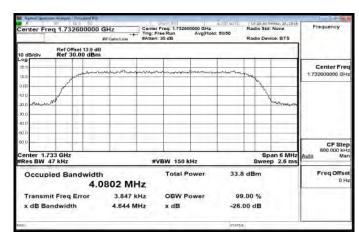




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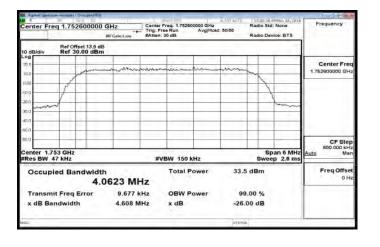
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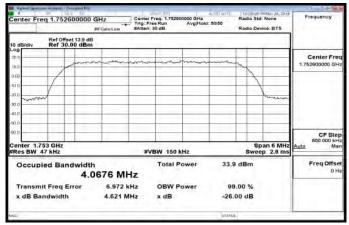




HSDPA_B4_HighCH1513-1752.6

HSUPA_B4_HighCH1513-1752.6





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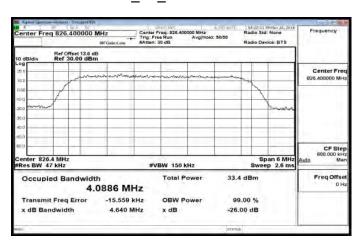
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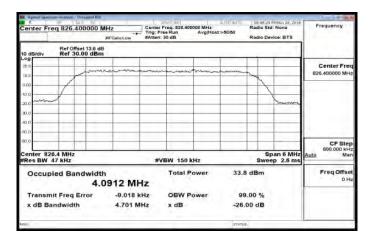


WCDMA B5 LowCH4132-826.4

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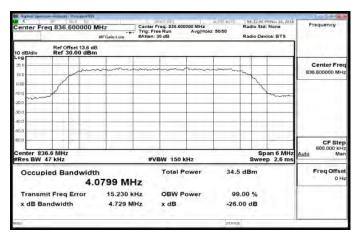
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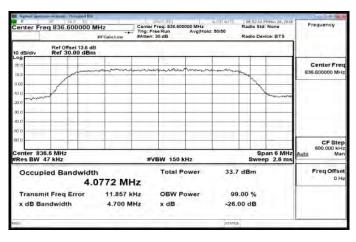




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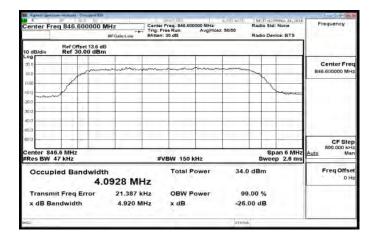
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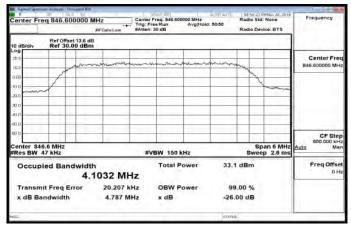




WCDMA_B5_HighCH4233-846.6

HSDPA_B5_HighCH4233-846.6



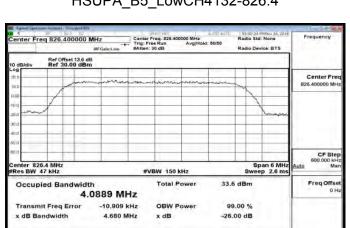


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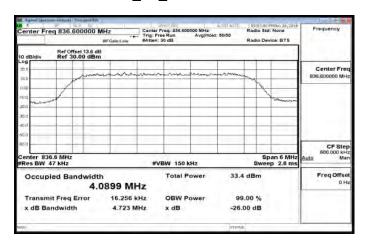
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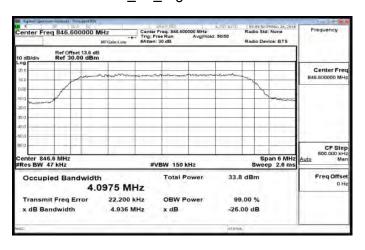
HSUPA B5 LowCH4132-826.4



HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



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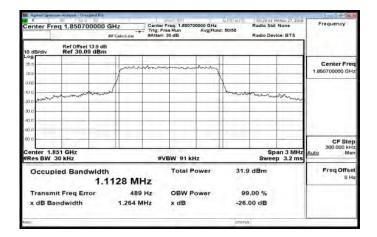
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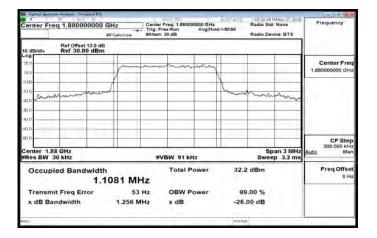


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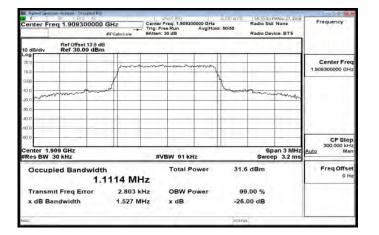
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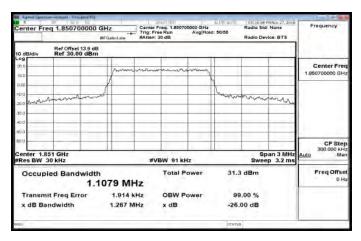
Band2 1 4MHz QPSK 6 0 MidCH18900-1880



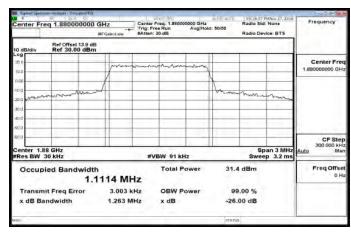
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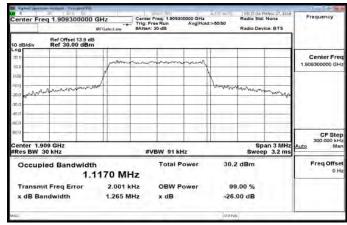
Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7



Band2_1_4MHz_16QAM_6_0_MidCH18900-1880



Band2 1 4MHz 16QAM 6 0 HighCH19193-1909.3



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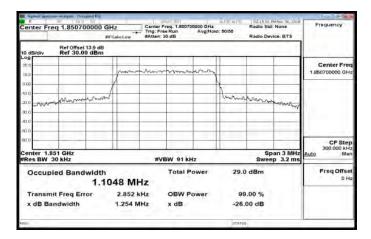
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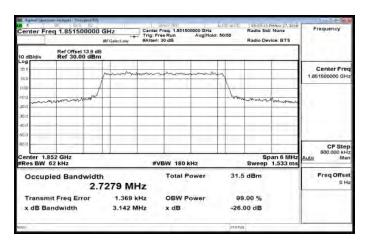


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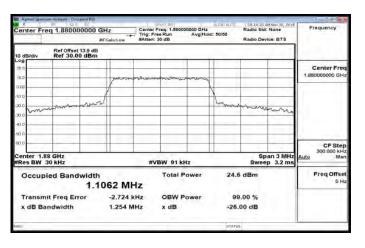
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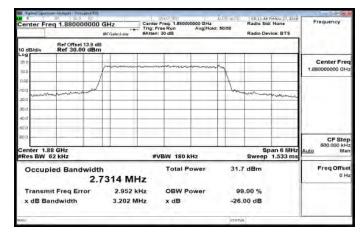
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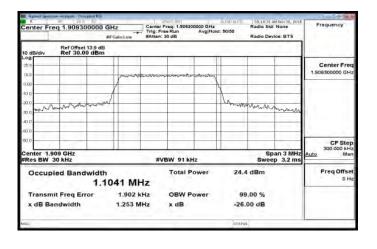
Band2_1_4MHz_64QAM_6_0_MidCH18900-1880



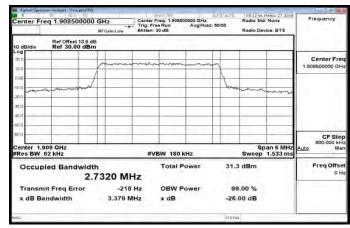
Band2_3MHz_QPSK_15_0_MidCH18900-1880



Band2_1_4MHz_64QAM_6_0_HighCH19193-1909.3



Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



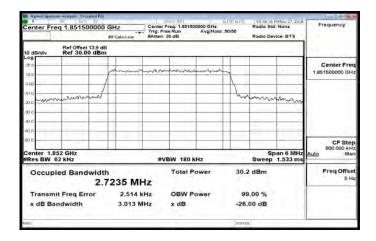
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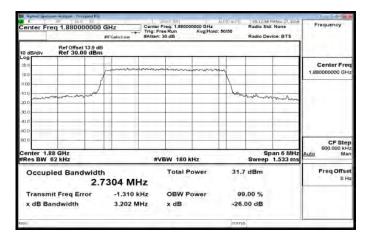


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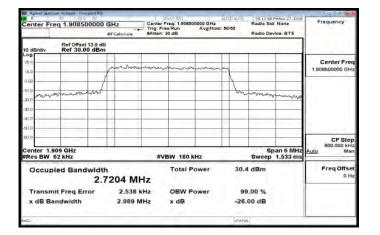
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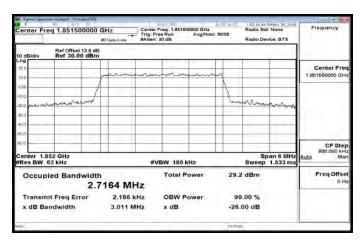
Band2_3MHz_16QAM_15_0_MidCH18900-1880



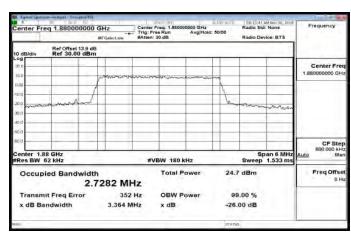
Band2_3MHz_16QAM_15_0_HighCH19185-1908.5



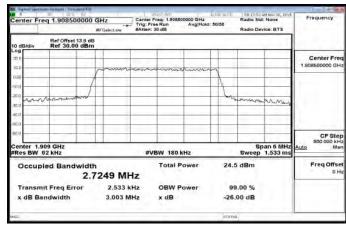
Band2_3MHz_64QAM_15_0_LowCH18615-1851.5



Band2_3MHz_64QAM_15_0_MidCH18900-1880



Band2_3MHz_64QAM_15_0_HighCH19185-1908.5



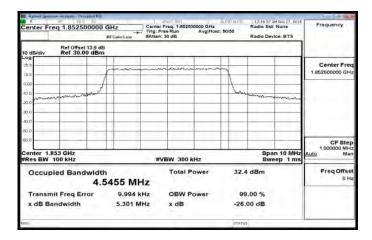
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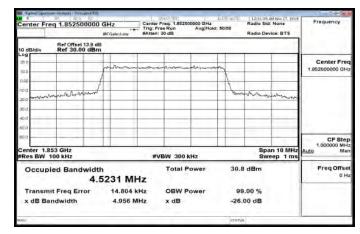


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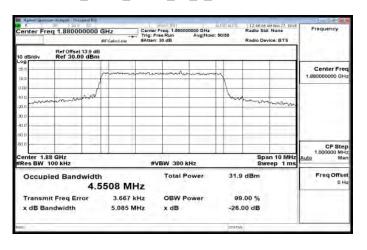
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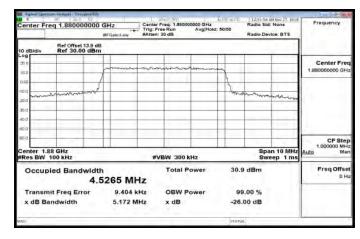
Band2_5MHz_16QAM_25_0_LowCH18625-1852.5



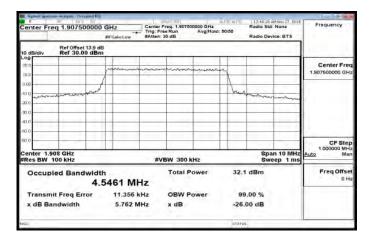
Band2_5MHz_QPSK_25_0_MidCH18900-1880



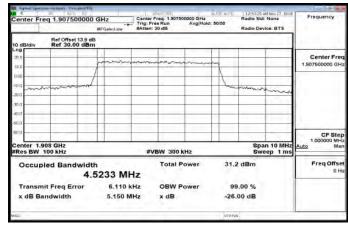
Band2_5MHz_16QAM_25_0_MidCH18900-1880



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



Band2 5MHz 16QAM 25 0 HighCH19175-1907.5



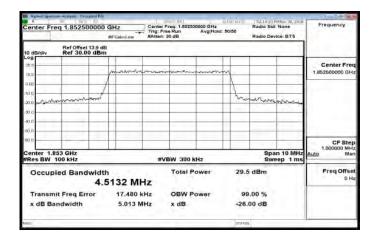
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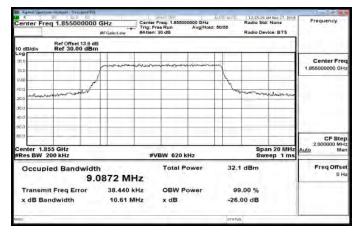


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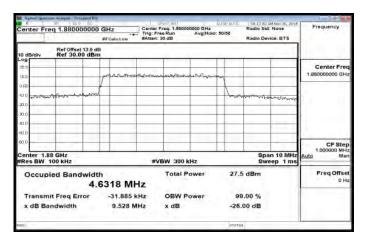
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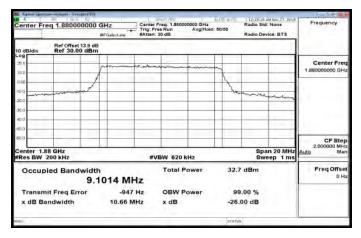
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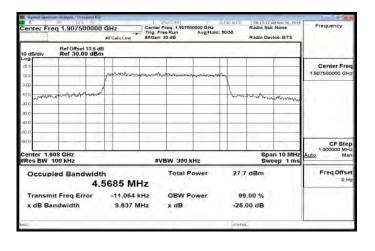
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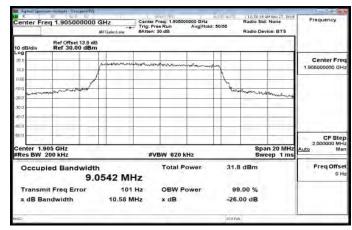
Band2 10MHz QPSK 50 0 MidCH18900-1880



Band2_5MHz_64QAM_25_0_HighCH19175-1907.5



Band2_10MHz_QPSK_50_0_HighCH19150-1905



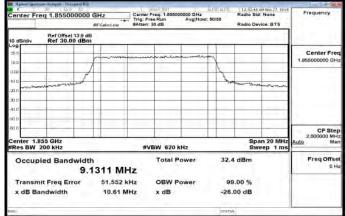
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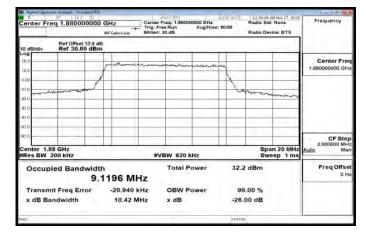


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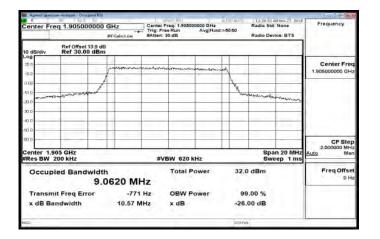
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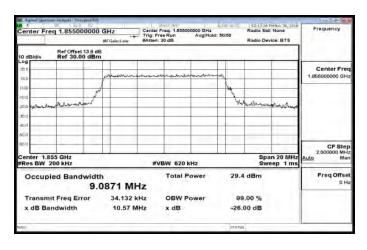
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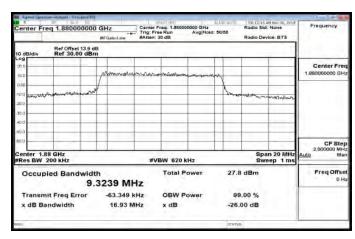
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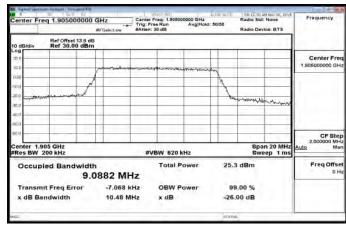
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Band2_10MHz_64QAM_50_0_MidCH18900-1880



Band2_10MHz_64QAM_50_0_HighCH19150-1905



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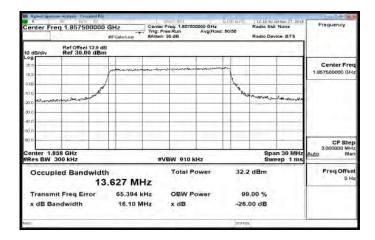
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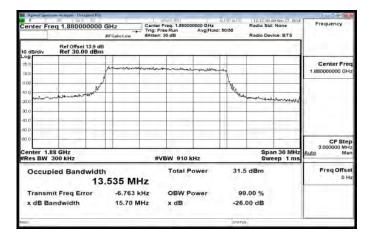


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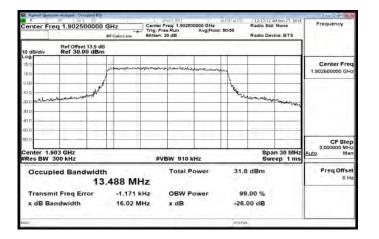
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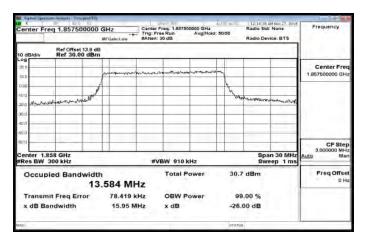
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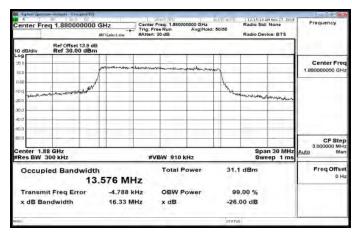
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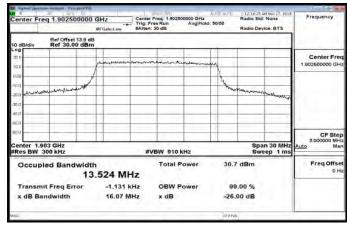
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Band2_15MHz_16QAM_75_0_MidCH18900-1880



Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



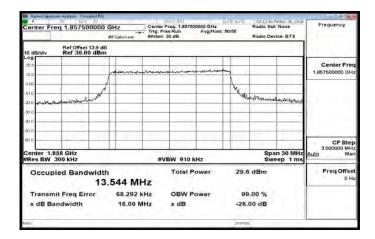
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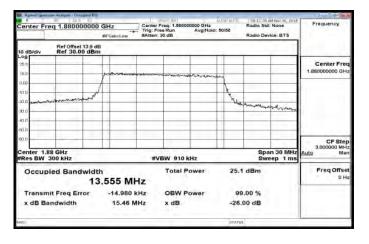


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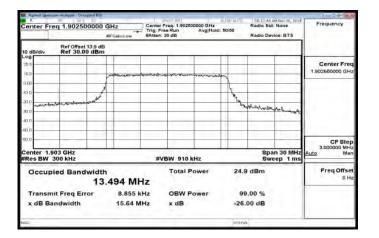
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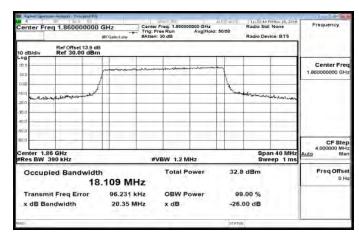
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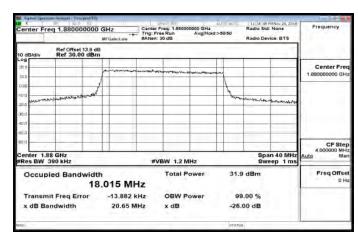
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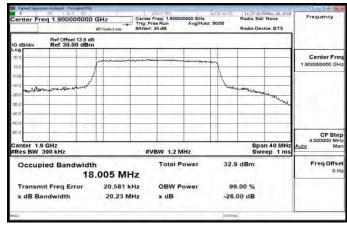
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Band2_20MHz_QPSK_100_0_MidCH18900-1880



Band2_20MHz_QPSK_100_0_HighCH19100-1900



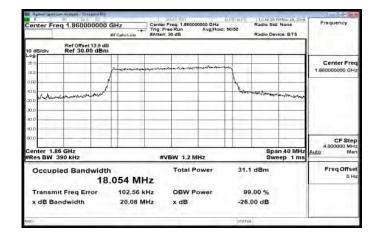
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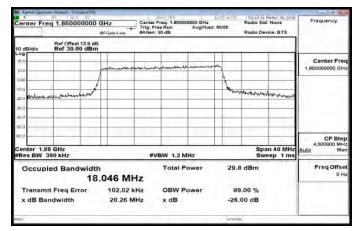


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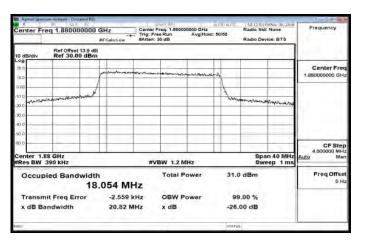
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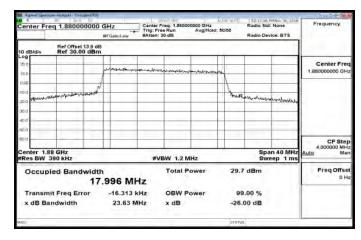
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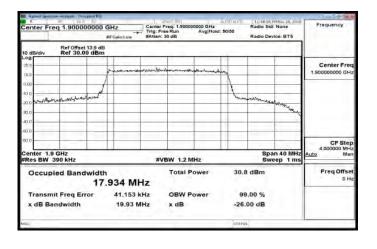
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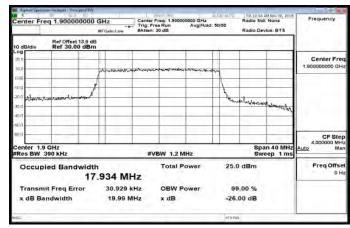
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Band2_20MHz_16QAM_100_0_HighCH19100-1900



Band2_20MHz_64QAM_100_0_HighCH19100-1900



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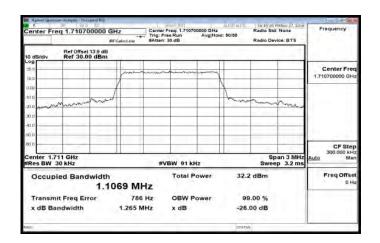
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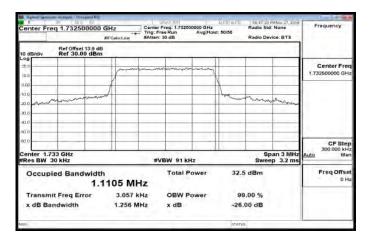
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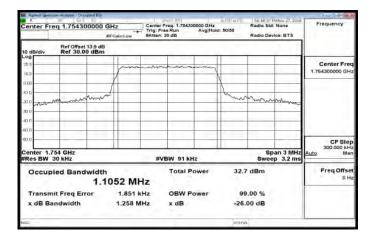
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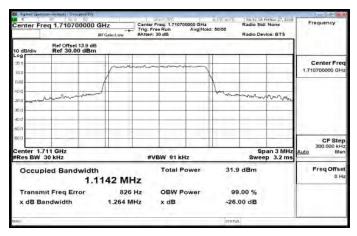


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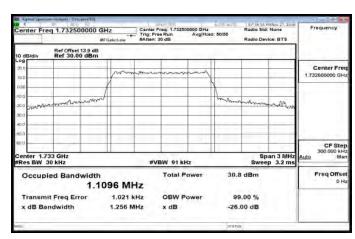


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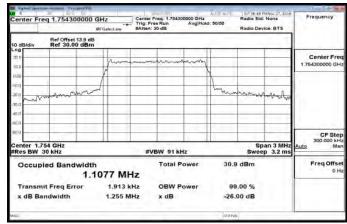




Band4_1_4MHz_16QAM_6_0_MidCH20175-1732.5



Band4 1 4MHz 16QAM 6 0 HighCH20393-1754.3



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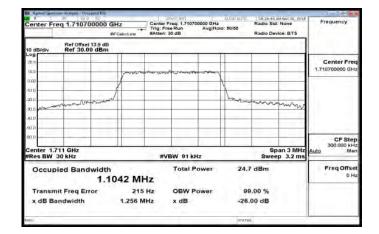
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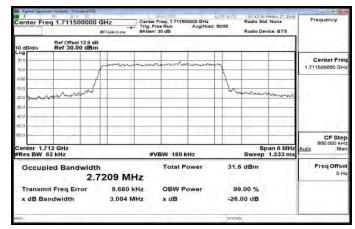


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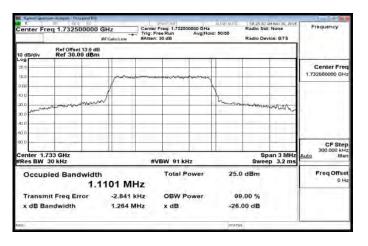
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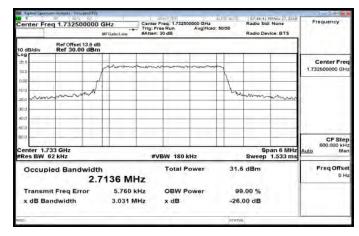
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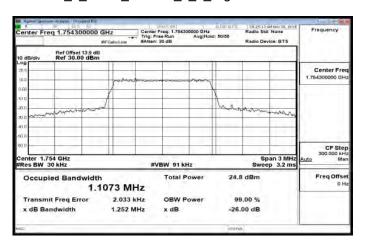
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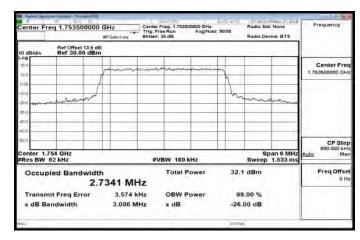
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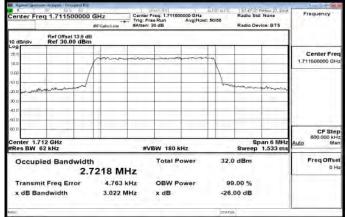
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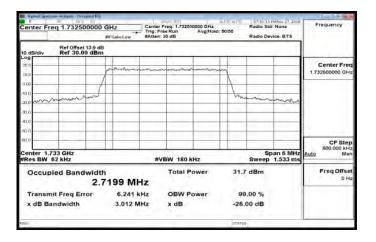


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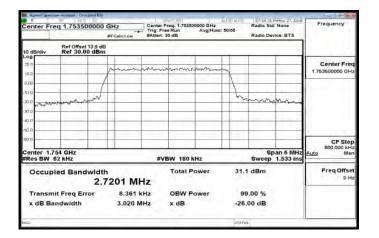
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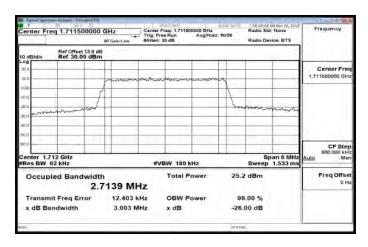
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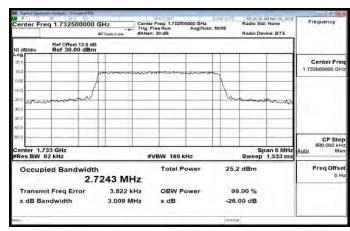
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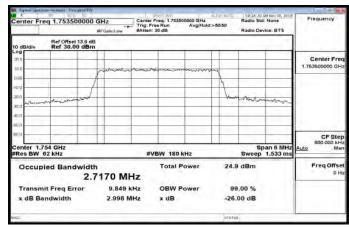
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Band4_3MHz_64QAM_15_0_MidCH20175-1732.5



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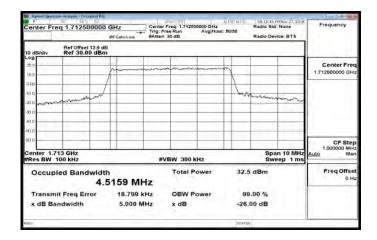
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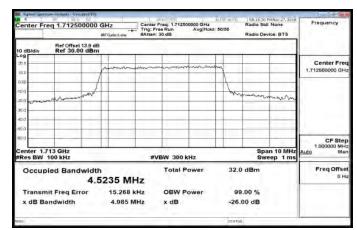


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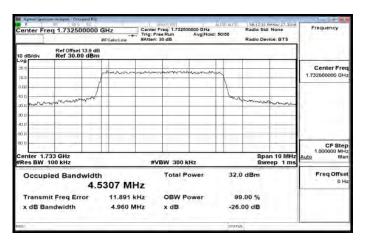
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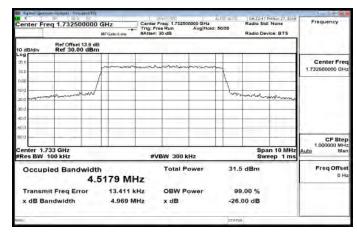
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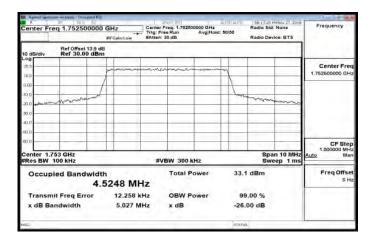
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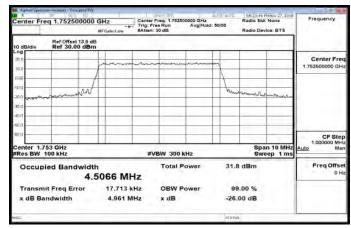
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Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



Band4 5MHz 16QAM 25 0 HighCH20375-1752.5



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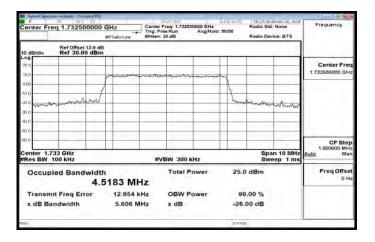


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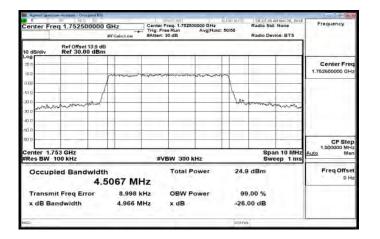
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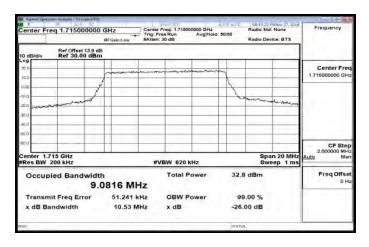
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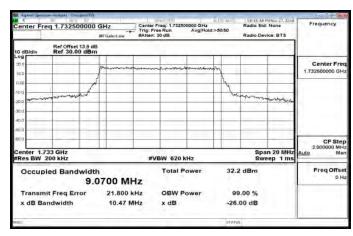
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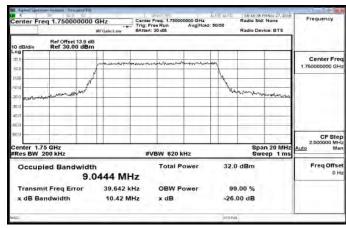
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Band4_10MHz_QPSK_50_0_MidCH20175-1732.5



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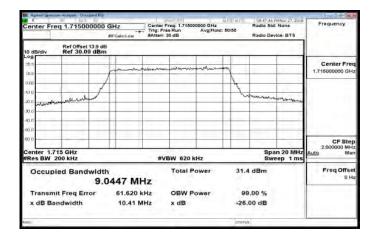
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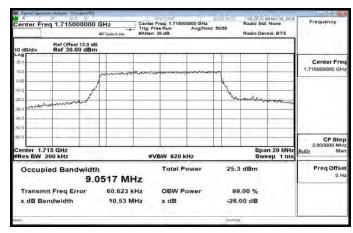


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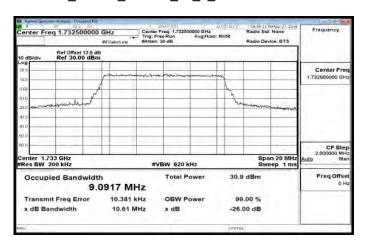
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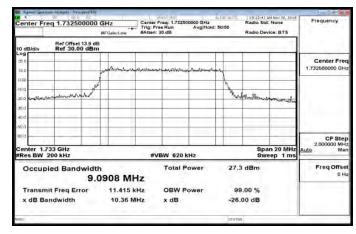
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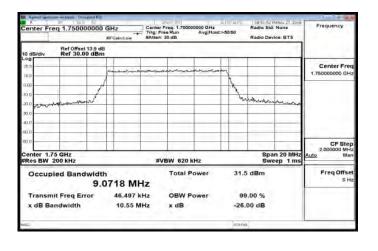
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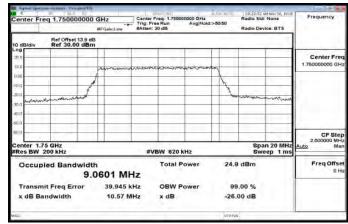
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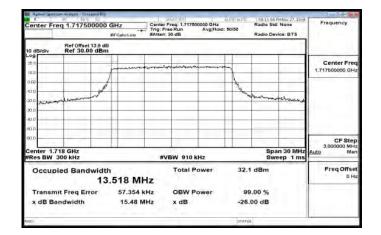
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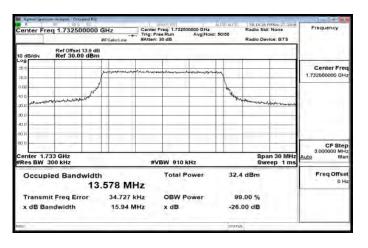
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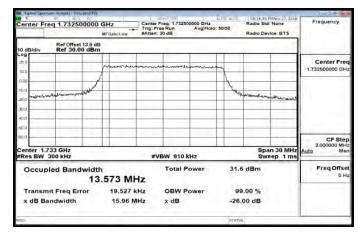
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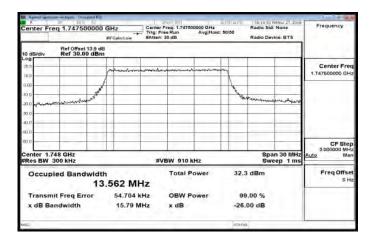
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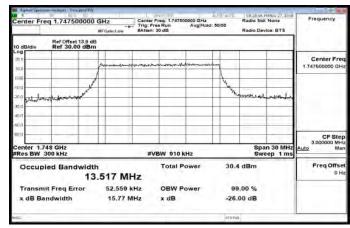
Band4_15MHz_16QAM_75_0_MidCH20175-1732.5



Band4_15MHz_QPSK_75_0_HighCH20325-1747.5



Band4_15MHz_16QAM_75_0_HighCH20325-1747.5



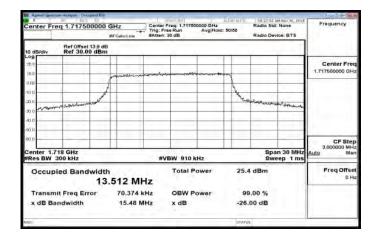
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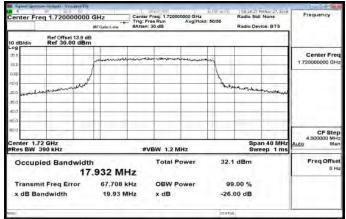


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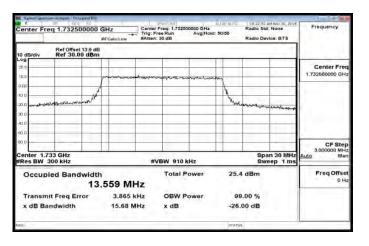
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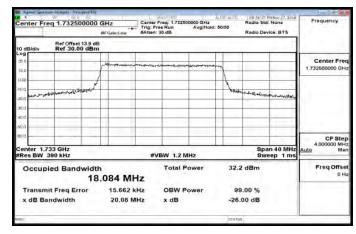
Band4_20MHz_QPSK_100_0_LowCH20050-1720



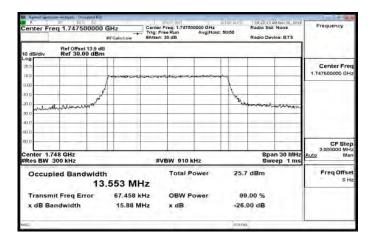
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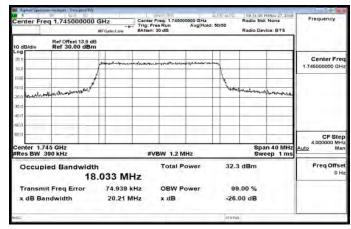
Band4_20MHz_QPSK_100_0_MidCH20175-1732.5



Band4_15MHz_64QAM_75_0_HighCH20325-1747.5



Band4 20MHz QPSK 100 0 HighCH20300-1745



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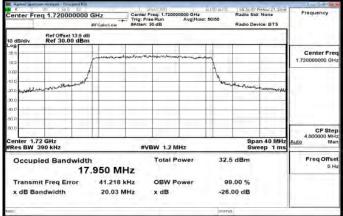
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

f (886-2) 2298-0488

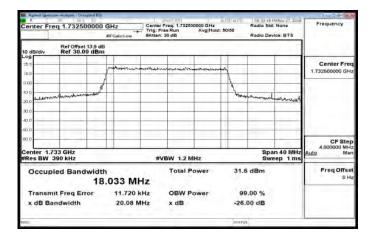


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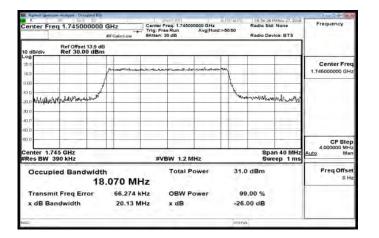
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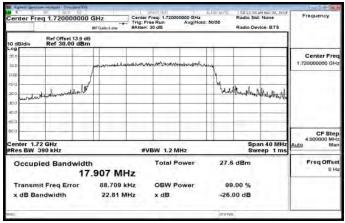
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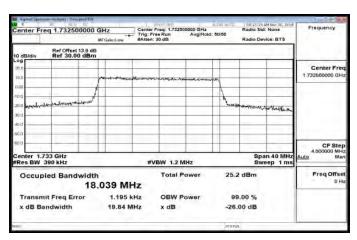
Band4 20MHz 16QAM 100 0 HighCH20300-1745



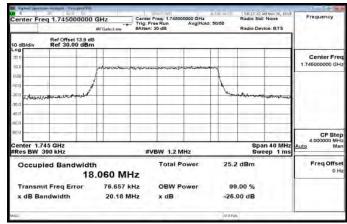
Band4_20MHz_64QAM_100_0_LowCH20050-1720



Band4_20MHz_64QAM_100_0_MidCH20175-1732.5



Band4_20MHz_64QAM_100_0_HighCH20300-1745



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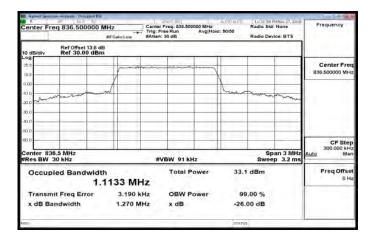
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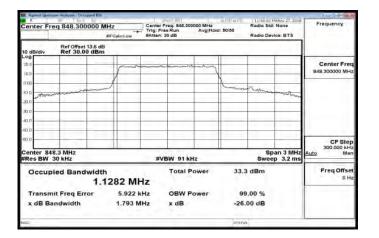
Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7

eq 824.700000 MHz Ref Offset 13.6 dB Ref 30.00 dBm CF Ste **#VBW 91 kHz** Occupied Bandwidth Total Power 31.9 dBm Freq Offs 1.1084 MHz Transmit Freq Error -1.249 kHz **OBW Power** 99.00 % 1.256 MHz -26.00 dB

Band5 1 4MHz QPSK 6 0 MidCH20525-836.5



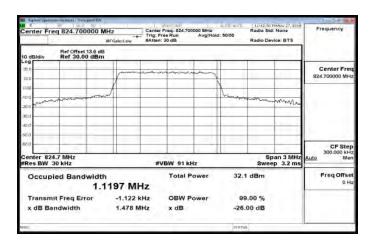
Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



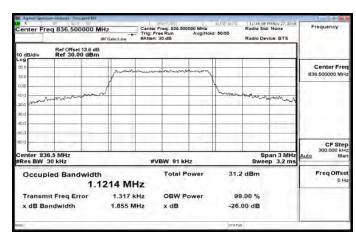
Band5_1_4MHz_16QAM_6_0_LowCH20407-824.7

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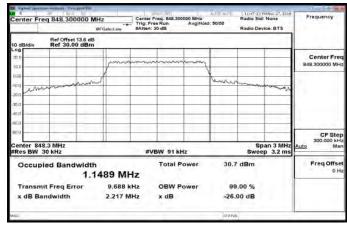
Report No.: E2/2018/B0047



Band5 1 4MHz 16QAM 6 0 MidCH20525-836.5



Band5 1 4MHz 16QAM 6 0 HighCH20643-848.3



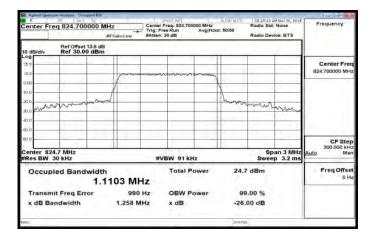
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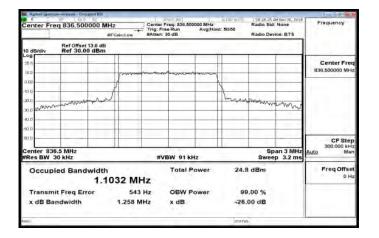


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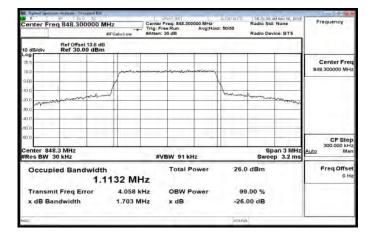
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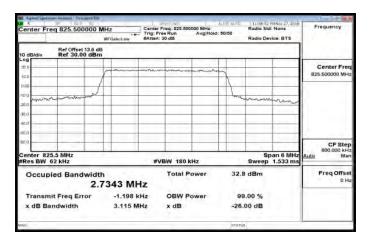
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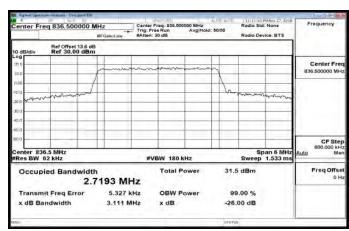
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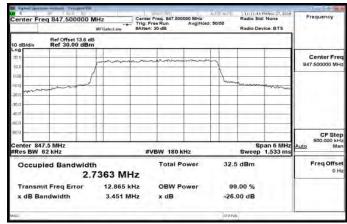
Band5_3MHz_QPSK_15_0_LowCH20415-825.5



Band5_3MHz_QPSK_15_0_MidCH20525-836.5



Band5_3MHz_QPSK_15_0_HighCH20635-847.5



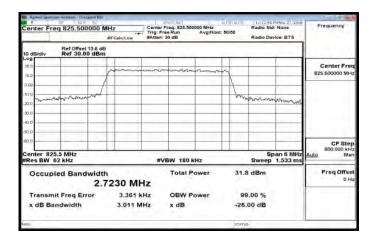
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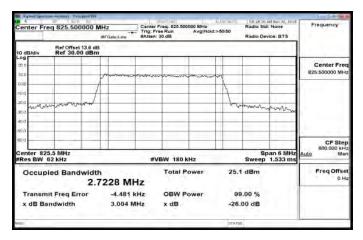


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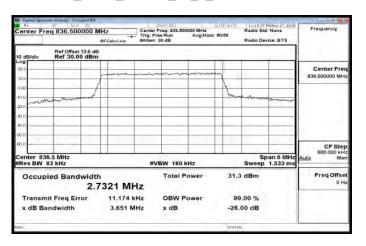
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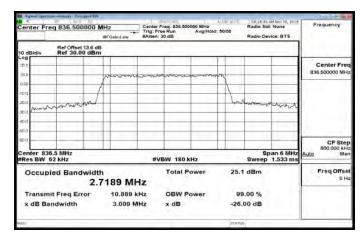
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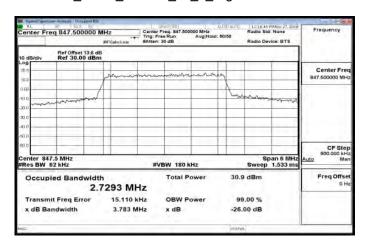
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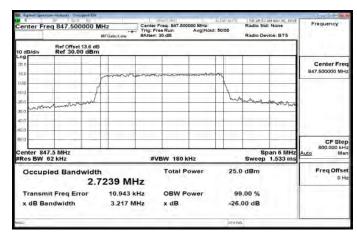
Band5_3MHz_64QAM_15_0_MidCH20525-836.5



Band5_3MHz_16QAM_15_0_HighCH20635-847.5



Band5_3MHz_64QAM_15_0_HighCH20635-847.5



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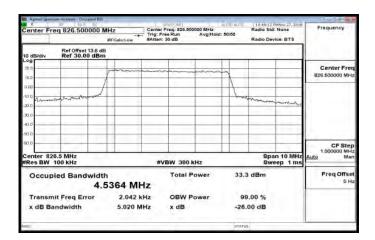
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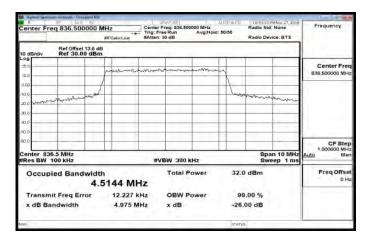
Band5_5MHz_QPSK_25_0_LowCH20425-826.5

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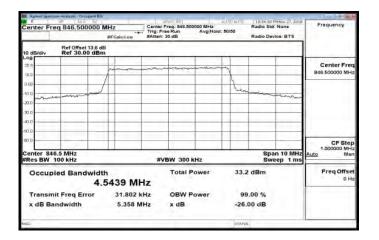
Band5_5MHz_16QAM_25_0_LowCH20425-826.5

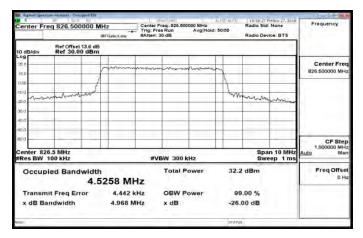


Band5_5MHz_QPSK_25_0_MidCH20525-836.5

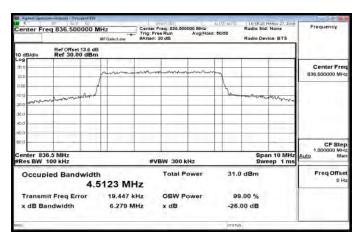


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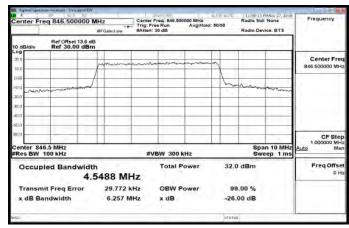




Band5_5MHz_16QAM_25_0_MidCH20525-836.5



Band5_5MHz_16QAM_25_0_HighCH20625-846.5



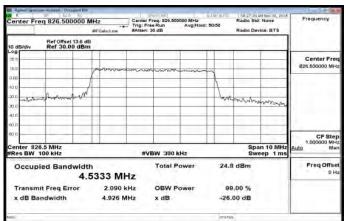
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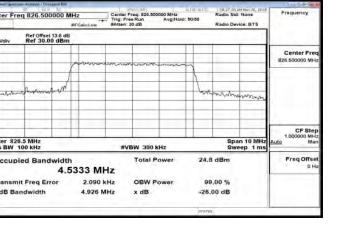


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Band5_10MHz_QPSK_50_0_LowCH20450-829

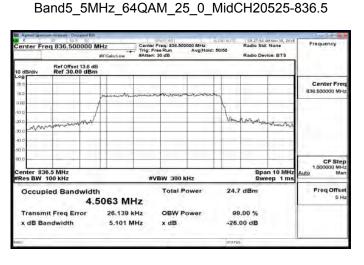


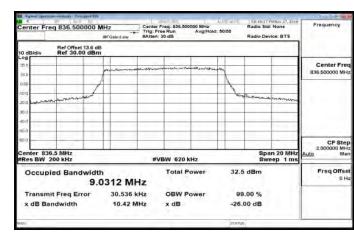
Band5_5MHz_64QAM_25_0_LowCH20425-826.5



eq 829.000000 MHz Ref Offset 13.6 d Ref 30.00 dBr CF Ste enter 829 MHz Res BW 200 kHz #VBW 620 kHz Occupied Bandwidth Total Power 32.6 dBm Freq Offs 9.1385 MHz Transmit Freq Error 22.050 kHz **OBW Power** 99.00 % x dB Bandwidth 10.56 MHz -26.00 dB

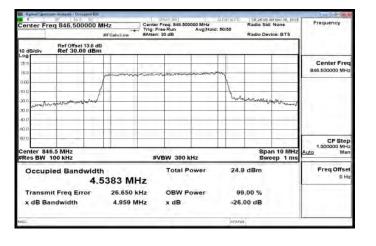
Band5 10MHz QPSK 50 0 MidCH20525-836.5

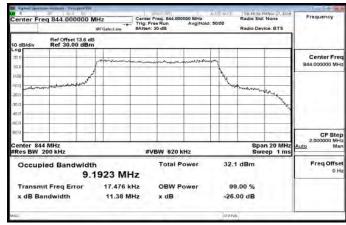




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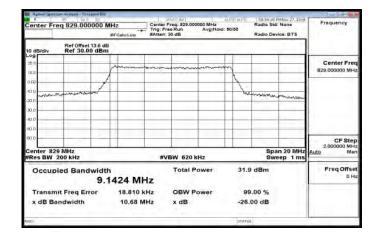
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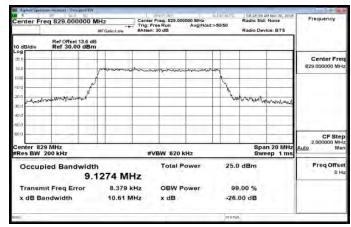


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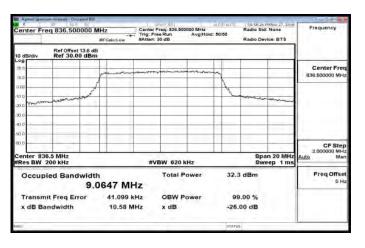
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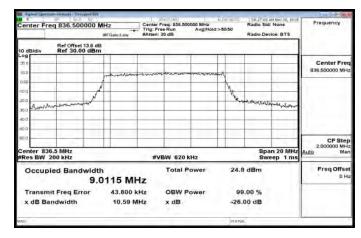
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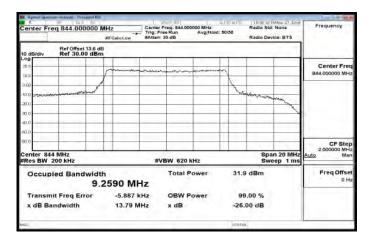
Band5_10MHz_16QAM_50_0_MidCH20525-836.5



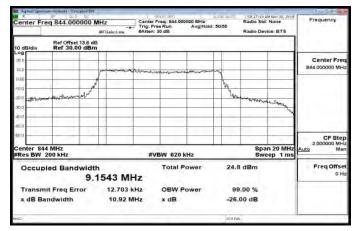
Band5_10MHz_64QAM_50_0_MidCH20525-836.5



Band5_10MHz_16QAM_50_0_HighCH20600-844



Band5_10MHz_64QAM_50_0_HighCH20600-844



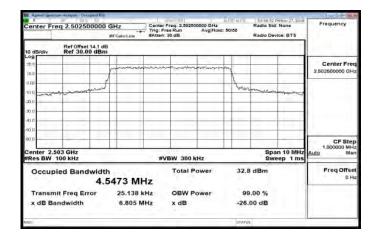
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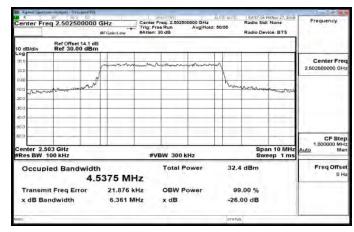


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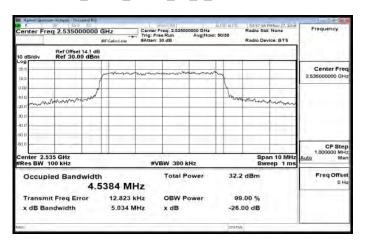
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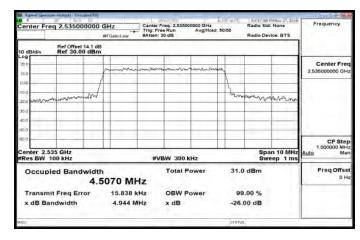
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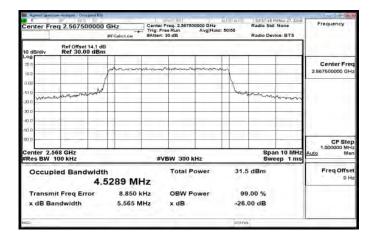
Band7_5MHz_QPSK_25_0_MidCH21100-2535



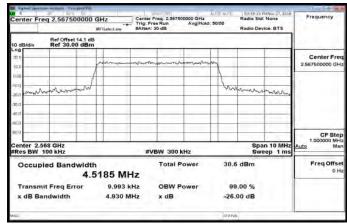
Band7_5MHz_16QAM_25_0_MidCH21100-2535



Band7_5MHz_QPSK_25_0_HighCH21425-2567.5



Band7_5MHz_16QAM_25_0_HighCH21425-2567.5



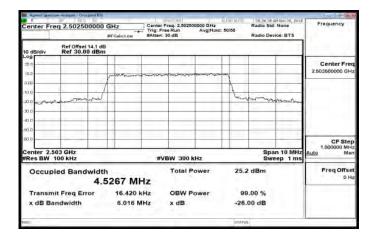
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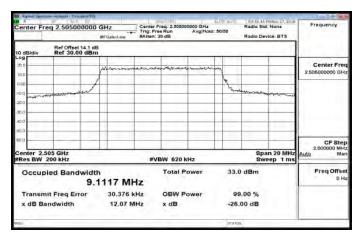


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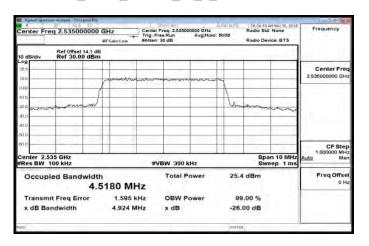
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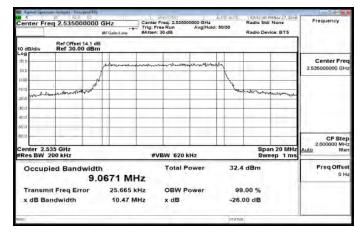
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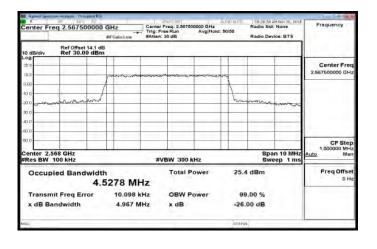
Band7_5MHz_64QAM_25_0_MidCH21100-2535



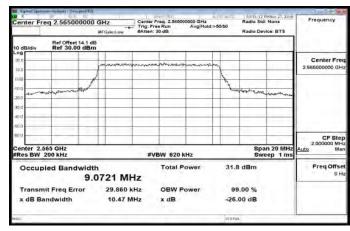
Band7 10MHz QPSK 50 0 MidCH21100-2535



Band7_5MHz_64QAM_25_0_HighCH21425-2567.5



Band7_10MHz_QPSK_50_0_HighCH21400-2565



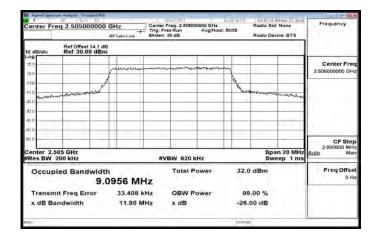
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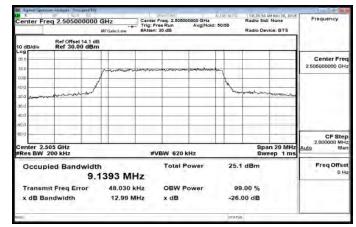


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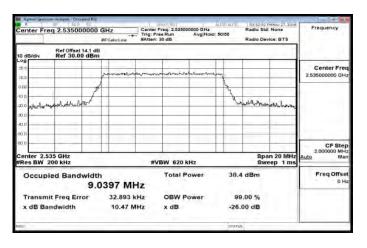
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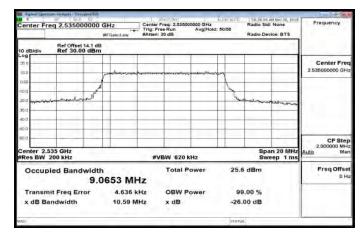
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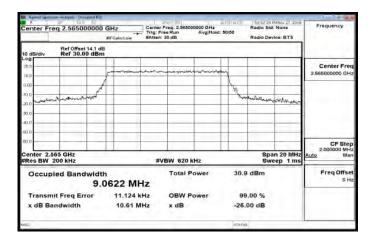
Band7_10MHz_16QAM_50_0_MidCH21100-2535



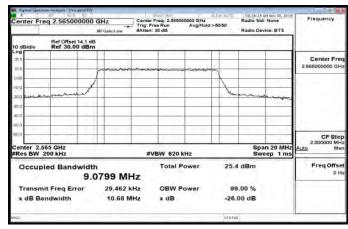
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Band7_10MHz_16QAM_50_0_HighCH21400-2565



Band7_10MHz_64QAM_50_0_HighCH21400-2565



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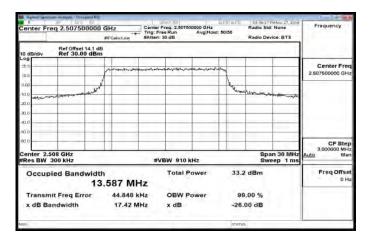
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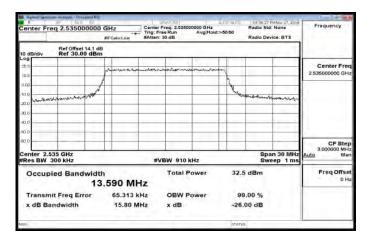


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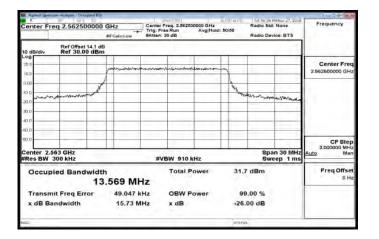
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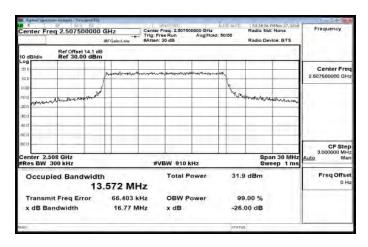
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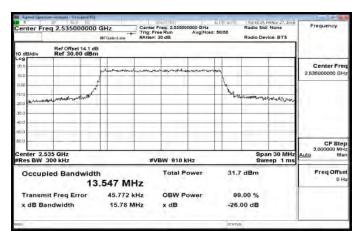
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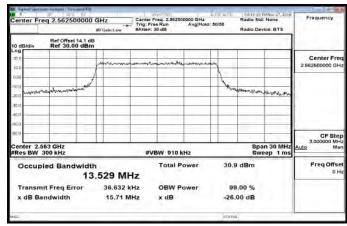
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Band7_15MHz_16QAM_75_0_MidCH21100-2535



Band7_15MHz_16QAM_75_0_HighCH21375-2562.5



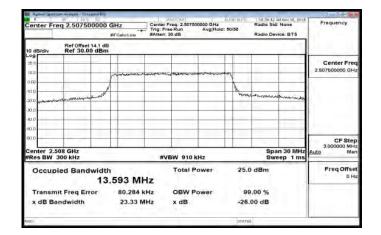
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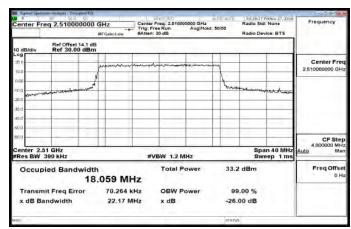


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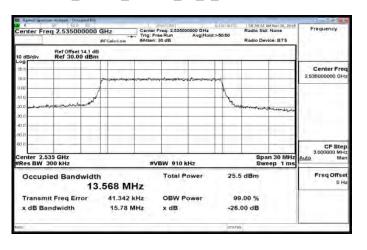
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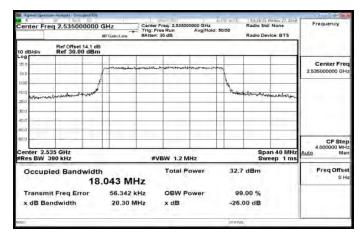
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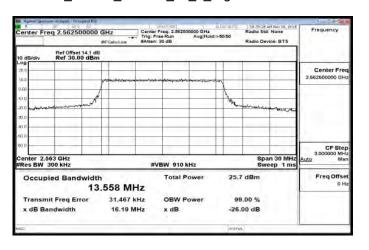
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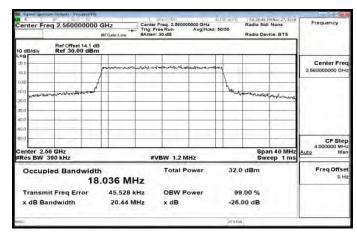
Band7_20MHz_QPSK_100_0_MidCH21100-2535



Band7_15MHz_64QAM_75_0_HighCH21375-2562.5



Band7_20MHz_QPSK_100_0_HighCH21350-2560



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