

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Mini, Clover Station Duo Terminal

Brand Name: Clover

Model No./ ISED HVIN: C305, C505

Model Difference: Refer to section 1.2

ISED PMN: C305, C505

Report Number: TERF2501000048E2

FCC ID HFS-C305

IC: 1787B-C305

Date of EUT Received: January 3, 2025

Date of Test: January 23, 2025~February 24, 2025

Issue Date: March 11, 2025

Approved By

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. 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 comply with FCC rule part 2, 22H & 24E & 27C and ISED RSS-Gen, 130, 132, 133, 139.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2501000048E2	00	Class II permissive change for change End Front Module	March 11, 2025	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers / product name is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Clover Mini, Clover Station Duo Terminal
Brand Name:	Clover
Model No./ISED HVIN:	C305, C505
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	4401231707080
Power Supply:	12V from Adapter
Test Software (Name/Version)	Default(connection with cal box)

1.2 Model Difference:

1. The components for printer are not mounted and there is no printer module for C505.
2. C505 doesn't have the paper compartment for printer.
3. C505 doesn't have the printer function.

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1.3 Operation Frequency Range

LTE Band 2			
BW (MHz)	Operation Frequency (MHz)		
1.4	1850.7	-	1909.3
3	1851.5	-	1908.5
5	1852.5	-	1907.5
10	1855.0	-	1905.0
15	1857.5	-	1902.5
20	1860.0	-	1900.0
LTE Band 4			
BW (MHz)	Operation Frequency (MHz)		
1.4	1710.7	-	1754.3
3	1711.5	-	1753.5
5	1712.5	-	1752.5
10	1715.0	-	1750.0
15	1717.5	-	1747.5
20	1720.0	-	1745.0
LTE Band 5			
BW (MHz)	Operation Frequency (MHz)		
1.4	824.7	-	848.3
3	825.5	-	847.5
5	826.5	-	846.5
10	829.0	-	844.0

LTE Band 12			
BW (MHz)	Operation Frequency (MHz)		
1.4	699.7	-	715.3
3	700.5	-	714.5
5	701.5	-	713.5
10	704.0	-	711.0
LTE Band 13			
BW (MHz)	Operation Frequency (MHz)		
5	779.5	-	784.5
10	782.0	-	
LTE Band 17			
BW (MHz)	Operation Frequency (MHz)		
5	706.5	-	713.5
10	709.0	-	711.0
LTE Band 66			
BW (MHz)	Operation Frequency (MHz)		
1.4	1710.7	-	1779.3
3	1711.5	-	1778.5
5	1712.5	-	1777.5
10	1715.0	-	1775.0
15	1717.5	-	1772.5
20	1720.0	-	1770.0

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1.4 Antenna Designation

Type	Modulation	Frequency (MHz)		Peak Antenna Gain (dBi)
PIFA	LTE-Band 2	1850	~ 1910	2
	LTE-Band 4	1710	~ 1755	2.19
	LTE-Band 5	824	~ 849	0.34
	LTE-Band 12	699	~ 716	2.47
	LTE-Band 13	777	~ 787	1.75
	LTE-Band 17	704	~ 716	2.47
	LTE-Band 66	1710	~ 1780	2.19

Note: Antenna information is provided by the applicant.

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1.5 Max ERP/EIRP Power Measurement Result:

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
2	1.4	1850.7	1909.3	QPSK	23.58	EIRP	0.228
				16QAM	23.71	EIRP	0.235
2	3	1851.5	1908.5	QPSK	23.79	EIRP	0.239
				16QAM	22.80	EIRP	0.191
2	5	1852.5	1907.5	QPSK	23.17	EIRP	0.207
				16QAM	23.03	EIRP	0.201
2	10	1855.0	1905.0	QPSK	24.59	EIRP	0.288
				16QAM	23.64	EIRP	0.231
2	15	1857.5	1902.5	QPSK	24.03	EIRP	0.253
				16QAM	23.57	EIRP	0.228
2	20	1860.0	1900.0	QPSK	24.18	EIRP	0.262
				16QAM	23.17	EIRP	0.207
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
4	1.4	1710.7	1754.3	QPSK	24.32	EIRP	0.270
				16QAM	23.97	EIRP	0.249
4	3	1711.5	1753.5	QPSK	24.45	EIRP	0.279
				16QAM	22.76	EIRP	0.189
4	5	1712.5	1752.5	QPSK	24.32	EIRP	0.270
				16QAM	23.05	EIRP	0.202
4	10	1715.0	1750.0	QPSK	24.29	EIRP	0.269
				16QAM	23.23	EIRP	0.210
4	15	1717.5	1747.5	QPSK	24.28	EIRP	0.268
				16QAM	23.32	EIRP	0.215
4	20	1720.0	1745.0	QPSK	24.28	EIRP	0.268
				16QAM	22.68	EIRP	0.185
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
5	1.4	824.7	848.3	QPSK	20.84	ERP	0.121
				16QAM	20.47	ERP	0.111
5	3	825.5	847.5	QPSK	22.00	ERP	0.158
				16QAM	20.50	ERP	0.112
5	5	826.5	846.5	QPSK	21.55	ERP	0.143
				16QAM	20.46	ERP	0.111
5	10	829.0	844.0	QPSK	21.59	ERP	0.144
				16QAM	20.54	ERP	0.113
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
12	1.4	699.7	715.3	QPSK	23.00	ERP	0.200
				16QAM	22.01	ERP	0.159
12	3	700.5	714.5	QPSK	23.18	ERP	0.208
				16QAM	22.20	ERP	0.166
12	5	701.5	713.5	QPSK	23.99	ERP	0.251
				16QAM	22.67	ERP	0.185
12	10	704.0	711.0	QPSK	22.77	ERP	0.189
				16QAM	22.17	ERP	0.165

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LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
13	5	779.5	784.5	QPSK	23.13	ERP	0.206
				16QAM	22.00	ERP	0.158
13	10	782.0	782.0	QPSK	22.85	ERP	0.193
				16QAM	21.25	ERP	0.133
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
17	5	706.5	713.5	QPSK	22.88	ERP	0.194
				16QAM	21.83	ERP	0.152
17	10	709.0	711.0	QPSK	23.82	ERP	0.241
				16QAM	22.92	ERP	0.196
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
66	1.4	1710.7	1779.3	QPSK	23.57	EIRP	0.228
				16QAM	22.72	EIRP	0.187
66	3	1711.5	1778.5	QPSK	23.31	EIRP	0.214
				16QAM	22.13	EIRP	0.163
66	5	1712.5	1777.5	QPSK	23.53	EIRP	0.225
				16QAM	22.06	EIRP	0.161
66	10	1715.0	1775.0	QPSK	23.60	EIRP	0.229
				16QAM	22.85	EIRP	0.193
66	15	1717.5	1772.5	QPSK	23.55	EIRP	0.226
				16QAM	22.29	EIRP	0.169
66	20	1720.0	1770.0	QPSK	23.46	EIRP	0.222
				16QAM	22.31	EIRP	0.170

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1.6 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C.

ISED RSS-GEN Issue 5 Amendment 2 Feb. 2021

ISED RSS-130 Issue 2 Feb. 2019

ISED RSS-132 Issue 4 Jan. 2023

ISED RSS-133 Issue 7 July 2024

ISED RSS-139 Issue 4 Amendment Oct. 2022

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.8 Special Accessories

No special accessories were used during testing.

1.9 Equipment Modifications

There was 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

The EUT is placed on a 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.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

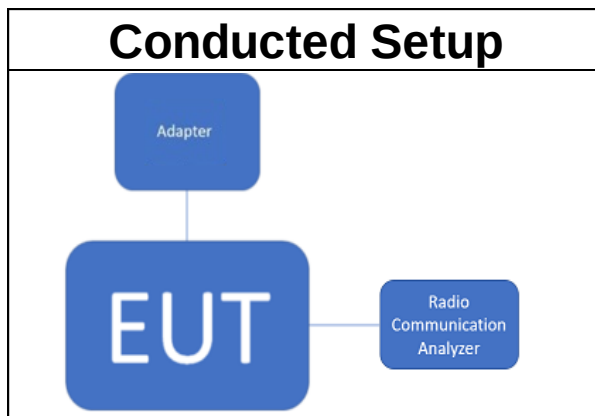
Note:

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

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2.5 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.6 Control Unit(s)

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Adapter	Clover	H305	H035UT44450001	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(b)(9) §27.50(c)(9) §27.50(d)(4)	RSS-130 §4.6.3 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5	ERP/ EIRP measurement	Compliant

Note

1. This test report is an addendum to the original test report TERF2208001388E2.

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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 scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.

4.2 Measurement Configuration

Test Items				Max. Output Power										
Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	v	v	v	-	-	v	v	v	v	v
12	v	v	v	v	v	v	v	-	-	v	v	v	v	v
13	v	v	v	-	-	v	v	-	-	v	v	v	v	v
17	v	v	v	-	-	v	v	-	-	v	v	v	v	v
66	v	v	v	v	v	v	v	v	v	v	v	v	v	v

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
RF Power Output	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

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 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/14/2024	11/13/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044732	11/21/2024	11/20/2025

NOTE: N.C.R refers to Not Calibrated Required.

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7 STANDARD APPLICABLE

7.1 Maximum Output Power

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.

7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (b)

(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment operating in 698-756 and 777-787 MHz.

RSS-132 §5.4

The transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment.

The effective isotropic radiated power (e.i.r.p.) shall not exceed the limits specified in SRSP-503 for base station equipment.

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RSS-133 §5.5

The maximum power spectral density of the equipment, measured in terms of average values, shall comply with the limits specified in table 2. These limits are either specified in terms of equivalent isotropically radiated power (e.i.r.p.) or TRP for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-510 for more deployment details in the bands 1850-1915 MHz and 1930-1995 MHz. AAS equipment with eight antenna elements or less can demonstrate compliance with the e.i.r.p limit specified for non-AAS equipment in table 2, instead of the TRP limit.

Table 2: Maximum power spectral density of equipment

Equipment type	Maximum power spectral density
Non-AAS fixed station and base station	3280 W/MHz e.i.r.p
AAS fixed station and base station	46 dBm/MHz TRP
Subscriber equipment	2 W /channel bandwidth e.i.r.p

RSS-139 §5.5

The maximum output power of the equipment shall comply with the limits specified below. In the tables, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

The limits in this RSS are specified for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-513 and SRSP-519 for more details on the bands 2110-2180 MHz and 2180-2200 MHz respectively

Table 3: Maximum power of equipment in the band 1710-1780 MHz

Equipment type	Maximum power
Fixed station and base station	30 dBm e.i.r.p./channel bandwidth
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

Table 4: Maximum power of equipment in the band 2110-2180 MHz

Equipment type	Maximum power
Non-AAS fixed station and base station	65 dBm e.i.r.p./MHz
AAS fixed station and base station	46 dBm TRP/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

Table 5: Maximum power of equipment in the band 2180-2200 MHz

Equipment type	Maximum power
Non-AAS base station	65 dBm e.i.r.p./MHz
AAS base station	46 dBm TRP/MHz

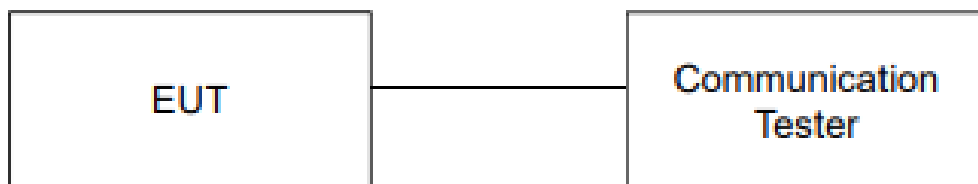
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8 TEST SETUP

8.1 Maximum Output Power



Note: Measurement setup for testing on Antenna connector

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9 TEST PROCEDURE

9.1 Maximum Output Power

9.1.1 Output Power Measurement Applicable Guidance

The transmitter output was connected to a communication tester. Transmitter output was read off the communication tester in dBm. The power output at the transmitter antenna port was determined by the communication tester reading.

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.

9.1.2 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- P_T = transmitter output power, expressed in dBW, dBm, or PSD;
- G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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10 MEASUREMENT RESULTS

Antenna gain (dBi)		2							
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)
1.4	18607	1850.7	QPSK	1	0	17.74	19.74	33	-13.26
				1	5	18.37	20.37	33	-12.63
				3	2	18.44	20.44	33	-12.56
				6	0	17.21	19.21	33	-13.79
	18900	1880	QPSK	1	0	21.07	23.07	33	-9.93
				1	5	21.11	23.11	33	-9.89
				3	2	21.06	23.06	33	-9.94
				6	0	20.07	22.07	33	-10.93
	19193	1909.3	QPSK	1	0	21.50	23.50	33	-9.5
				1	5	21.58	23.58	33	-9.42
				3	2	21.35	23.35	33	-9.65
				6	0	21.43	23.43	33	-9.57
1.4	18607	1850.7	16QAM	1	0	16.70	18.70	33	-14.3
				1	5	17.06	19.06	33	-13.94
				3	2	17.36	19.36	33	-13.64
				6	0	16.31	18.31	33	-14.69
	18900	1880	16QAM	1	0	19.81	21.81	33	-11.19
				1	5	19.82	21.82	33	-11.18
				3	2	20.18	22.18	33	-10.82
				6	0	18.98	20.98	33	-12.02
	19193	1909.3	16QAM	1	0	21.14	23.14	33	-9.86
				1	5	21.12	23.12	33	-9.88
				3	2	21.71	23.71	33	-9.29
				6	0	20.09	22.09	33	-10.91

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Antenna gain (dBi)		2							
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)
3	18615	1851.5	QPSK	1	0	18.46	20.46	33	-12.54
				1	14	18.77	20.77	33	-12.23
				8	4	17.53	19.53	33	-13.47
				15	0	17.67	19.67	33	-13.33
	18900	1880	QPSK	1	0	21.20	23.20	33	-9.8
				1	14	21.35	23.35	33	-9.65
				8	4	20.19	22.19	33	-10.81
				15	0	20.10	22.10	33	-10.9
	19185	1908.5	QPSK	1	0	21.79	23.79	33	-9.21
				1	14	21.78	23.78	33	-9.22
				8	4	21.78	23.78	33	-9.22
				15	0	21.74	23.74	33	-9.26
3	18615	1851.5	16QAM	1	0	17.31	19.31	33	-13.69
				1	14	17.90	19.90	33	-13.1
				8	4	16.70	18.70	33	-14.3
				15	0	16.54	18.54	33	-14.46
	18900	1880	16QAM	1	0	19.88	21.88	33	-11.12
				1	14	20.23	22.23	33	-10.77
				8	4	19.41	21.41	33	-11.59
				15	0	19.18	21.18	33	-11.82
	19185	1908.5	16QAM	1	0	20.80	22.80	33	-10.2
				1	14	20.48	22.48	33	-10.52
				8	4	20.66	22.66	33	-10.34
				15	0	20.63	22.63	33	-10.37

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Antenna gain (dBi)		2							
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)
5	18625	1852.5	QPSK	1	0	18.23	20.23	33	-12.77
				1	24	19.20	21.20	33	-11.8
				12	6	17.10	19.10	33	-13.9
				25	0	17.46	19.46	33	-13.54
	18900	1880	QPSK	1	0	20.84	22.84	33	-10.16
				1	24	21.17	23.17	33	-9.83
				12	6	20.06	22.06	33	-10.94
				25	0	20.12	22.12	33	-10.88
	19175	1907.5	QPSK	1	0	21.13	23.13	33	-9.87
				1	24	21.08	23.08	33	-9.92
				12	6	19.92	21.92	33	-11.08
				25	0	19.93	21.93	33	-11.07
5	18625	1852.5	16QAM	1	0	16.83	18.83	33	-14.17
				1	24	17.74	19.74	33	-13.26
				12	6	16.50	18.50	33	-14.5
				25	0	16.56	18.56	33	-14.44
	18900	1880	16QAM	1	0	19.63	21.63	33	-11.37
				1	24	20.15	22.15	33	-10.85
				12	6	18.97	20.97	33	-12.03
				25	0	19.05	21.05	33	-11.95
	19175	1907.5	16QAM	1	0	21.03	23.03	33	-9.97
				1	24	20.42	22.42	33	-10.58
				12	6	19.48	21.48	33	-11.52
				25	0	19.81	21.81	33	-11.19

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Antenna gain (dBi)		2							
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)
10	18650	1855	QPSK	1	0	22.31	24.31	33	-8.69
				1	49	22.46	24.46	33	-8.54
				25	12	21.46	23.46	33	-9.54
				50	0	21.35	23.35	33	-9.65
	18900	1880	QPSK	1	0	22.59	24.59	33	-8.41
				1	49	21.72	23.72	33	-9.28
				25	12	21.60	23.60	33	-9.4
				50	0	21.53	23.53	33	-9.47
	19150	1905	QPSK	1	0	22.34	24.34	33	-8.66
				1	49	21.67	23.67	33	-9.33
				25	12	21.25	23.25	33	-9.75
				50	0	21.29	23.29	33	-9.71
10	18650	1855	16QAM	1	0	19.36	21.36	33	-11.64
				1	49	18.30	20.30	33	-12.7
				25	12	17.09	19.09	33	-13.91
				50	0	17.58	19.58	33	-13.42
	18900	1880	16QAM	1	0	21.14	23.14	33	-9.86
				1	49	20.89	22.89	33	-10.11
				25	12	20.05	22.05	33	-10.95
				50	0	19.52	21.52	33	-11.48
	19150	1905	16QAM	1	0	21.24	23.24	33	-9.76
				1	49	21.64	23.64	33	-9.36
				25	12	20.34	22.34	33	-10.66
				50	0	20.03	22.03	33	-10.97

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Antenna gain (dBi)		2							
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)
15	18675	1857.5	QPSK	1	0	22.03	24.03	33	-8.97
				1	74	21.85	23.85	33	-9.15
				36	18	21.52	23.52	33	-9.48
				75	0	20.99	22.99	33	-10.01
	18900	1880	QPSK	1	0	21.95	23.95	33	-9.05
				1	74	21.89	23.89	33	-9.11
				36	18	21.22	23.22	33	-9.78
				75	0	21.33	23.33	33	-9.67
	19125	1902.5	QPSK	1	0	20.95	22.95	33	-10.05
				1	74	21.36	23.36	33	-9.64
				36	18	20.57	22.57	33	-10.43
				75	0	21.11	23.11	33	-9.89
15	18675	1857.5	16QAM	1	0	21.12	23.12	33	-9.88
				1	74	21.28	23.28	33	-9.72
				36	18	20.36	22.36	33	-10.64
				75	0	21.25	23.25	33	-9.75
	18900	1880	16QAM	1	0	20.99	22.99	33	-10.01
				1	74	21.39	23.39	33	-9.61
				36	18	21.01	23.01	33	-9.99
				75	0	21.10	23.10	33	-9.9
	19125	1902.5	16QAM	1	0	21.50	23.50	33	-9.5
				1	74	21.57	23.57	33	-9.43
				36	18	20.98	22.98	33	-10.02
				75	0	21.45	23.45	33	-9.55

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Antenna gain (dBi)		2							
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)
20	18700	1860	QPSK	1	0	21.69	23.69	33	-9.31
				1	99	21.32	23.32	33	-9.68
				50	25	20.87	22.87	33	-10.13
				100	0	20.97	22.97	33	-10.03
	18900	1880	QPSK	1	0	21.40	23.40	33	-9.6
				1	99	21.60	23.60	33	-9.4
				50	25	20.98	22.98	33	-10.02
				100	0	21.23	23.23	33	-9.77
	19100	1900	QPSK	1	0	22.15	24.15	33	-8.85
				1	99	22.18	24.18	33	-8.82
				50	25	21.82	23.82	33	-9.18
				100	0	21.53	23.53	33	-9.47
20	18700	1860	16QAM	1	0	21.17	23.17	33	-9.83
				1	99	20.36	22.36	33	-10.64
				50	25	20.85	22.85	33	-10.15
				100	0	20.19	22.19	33	-10.81
	18900	1880	16QAM	1	0	20.69	22.69	33	-10.31
				1	99	20.78	22.78	33	-10.22
				50	25	19.65	21.65	33	-11.35
				100	0	19.98	21.98	33	-11.02
	19100	1900	16QAM	1	0	21.01	23.01	33	-9.99
				1	99	21.12	23.12	33	-9.88
				50	25	20.37	22.37	33	-10.63
				100	0	20.67	22.67	33	-10.33

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Antenna gain (dBi)		2.19							
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)
1.4	19957	1710.7	QPSK	1	0	21.85	24.04	30	-5.96
				1	5	22.03	24.22	30	-5.78
				3	2	21.91	24.10	30	-5.9
				6	0	20.66	22.85	30	-7.15
	20175	1732.5	QPSK	1	0	22.13	24.32	30	-5.68
				1	5	22.05	24.24	30	-5.76
				3	2	21.42	23.61	30	-6.39
				6	0	21.02	23.21	30	-6.79
	20393	1754.3	QPSK	1	0	21.97	24.16	30	-5.84
				1	5	22.06	24.25	30	-5.75
				3	2	21.25	23.44	30	-6.56
				6	0	21.02	23.21	30	-6.79
1.4	19957	1710.7	16QAM	1	0	21.78	23.97	30	-6.03
				1	5	21.52	23.71	30	-6.29
				3	2	20.55	22.74	30	-7.26
				6	0	20.73	22.92	30	-7.08
	20175	1732.5	16QAM	1	0	20.94	23.13	30	-6.87
				1	5	20.87	23.06	30	-6.94
				3	2	20.53	22.72	30	-7.28
				6	0	20.29	22.48	30	-7.52
	20393	1754.3	16QAM	1	0	21.38	23.57	30	-6.43
				1	5	21.45	23.64	30	-6.36
				3	2	20.25	22.44	30	-7.56
				6	0	19.98	22.17	30	-7.83

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Antenna gain (dBi)		2.19							
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)
3	19965	1711.5	QPSK	1	0	22.26	24.45	30	-5.55
				1	14	22.26	24.45	30	-5.55
				8	4	21.24	23.43	30	-6.57
				15	0	20.57	22.76	30	-7.24
	20175	1732.5	QPSK	1	0	21.52	23.71	30	-6.29
				1	14	21.33	23.52	30	-6.48
				8	4	20.39	22.58	30	-7.42
				15	0	20.34	22.53	30	-7.47
	20385	1753.5	QPSK	1	0	21.33	23.52	30	-6.48
				1	14	21.69	23.88	30	-6.12
				8	4	20.41	22.60	30	-7.4
				15	0	20.40	22.59	30	-7.41
3	19965	1711.5	16QAM	1	0	20.57	22.76	30	-7.24
				1	14	20.55	22.74	30	-7.26
				8	4	19.83	22.02	30	-7.98
				15	0	19.93	22.12	30	-7.88
	20175	1732.5	16QAM	1	0	20.02	22.21	30	-7.79
				1	14	19.39	21.58	30	-8.42
				8	4	19.45	21.64	30	-8.36
				15	0	19.30	21.49	30	-8.51
	20385	1753.5	16QAM	1	0	19.47	21.66	30	-8.34
				1	14	20.12	22.31	30	-7.69
				8	4	19.64	21.83	30	-8.17
				15	0	18.93	21.12	30	-8.88

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Antenna gain (dBi)		2.19							
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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	22.13	24.32	30	-5.68
				1	24	21.03	23.22	30	-6.78
				12	6	20.88	23.07	30	-6.93
				25	0	20.98	23.17	30	-6.83
	20175	1732.5	QPSK	1	0	21.05	23.24	30	-6.76
				1	24	21.03	23.22	30	-6.78
				12	6	20.29	22.48	30	-7.52
				25	0	20.35	22.54	30	-7.46
	20375	1752.5	QPSK	1	0	21.40	23.59	30	-6.41
				1	24	21.62	23.81	30	-6.19
				12	6	20.47	22.66	30	-7.34
				25	0	20.30	22.49	30	-7.51
5	19975	1712.5	16QAM	1	0	20.86	23.05	30	-6.95
				1	24	20.69	22.88	30	-7.12
				12	6	19.93	22.12	30	-7.88
				25	0	20.27	22.46	30	-7.54
	20175	1732.5	16QAM	1	0	20.44	22.63	30	-7.37
				1	24	19.74	21.93	30	-8.07
				12	6	19.46	21.65	30	-8.35
				25	0	19.31	21.50	30	-8.5
	20375	1752.5	16QAM	1	0	19.88	22.07	30	-7.93
				1	24	19.45	21.64	30	-8.36
				12	6	19.01	21.20	30	-8.8
				25	0	19.32	21.51	30	-8.49

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Antenna gain (dBi)		2.19							
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)
10	20000	1715	QPSK	1	0	22.10	24.29	30	-5.71
				1	49	21.97	24.16	30	-5.84
				25	12	21.25	23.44	30	-6.56
				50	0	20.94	23.13	30	-6.87
	20175	1732.5	QPSK	1	0	21.57	23.76	30	-6.24
				1	49	20.83	23.02	30	-6.98
				25	12	20.21	22.40	30	-7.6
				50	0	20.23	22.42	30	-7.58
	20350	1750	QPSK	1	0	21.69	23.88	30	-6.12
				1	49	20.96	23.15	30	-6.85
				25	12	19.39	21.58	30	-8.42
				50	0	20.56	22.75	30	-7.25
10	20000	1715	16QAM	1	0	19.97	22.16	30	-7.84
				1	49	21.04	23.23	30	-6.77
				25	12	19.84	22.03	30	-7.97
				50	0	19.85	22.04	30	-7.96
	20175	1732.5	16QAM	1	0	19.66	21.85	30	-8.15
				1	49	20.80	22.99	30	-7.01
				25	12	19.39	21.58	30	-8.42
				50	0	19.67	21.86	30	-8.14
	20350	1750	16QAM	1	0	20.68	22.87	30	-7.13
				1	49	20.64	22.83	30	-7.17
				25	12	19.35	21.54	30	-8.46
				50	0	20.03	22.22	30	-7.78

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Antenna gain (dBi)		2.19							
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)
15	20025	1717.5	QPSK	1	0	22.09	24.28	30	-5.72
				1	74	21.76	23.95	30	-6.05
				36	18	20.69	22.88	30	-7.12
				75	0	19.79	21.98	30	-8.02
	20175	1732.5	QPSK	1	0	21.53	23.72	30	-6.28
				1	74	21.86	24.05	30	-5.95
				36	18	20.25	22.44	30	-7.56
				75	0	20.42	22.61	30	-7.39
	20325	1747.5	QPSK	1	0	21.13	23.32	30	-6.68
				1	74	20.88	23.07	30	-6.93
				36	18	20.35	22.54	30	-7.46
				75	0	20.45	22.64	30	-7.36
15	20025	1717.5	16QAM	1	0	21.13	23.32	30	-6.68
				1	74	20.41	22.60	30	-7.4
				36	18	20.59	22.78	30	-7.22
				75	0	20.68	22.87	30	-7.13
	20175	1732.5	16QAM	1	0	20.58	22.77	30	-7.23
				1	74	19.66	21.85	30	-8.15
				36	18	19.57	21.76	30	-8.24
				75	0	19.08	21.27	30	-8.73
	20325	1747.5	16QAM	1	0	20.65	22.84	30	-7.16
				1	74	20.41	22.60	30	-7.4
				36	18	20.26	22.45	30	-7.55
				75	0	20.17	22.36	30	-7.64

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Antenna gain (dBi)		2.19							
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)
20	20050	1720	QPSK	1	0	22.09	24.28	30	-5.72
				1	99	21.61	23.80	30	-6.2
				50	25	20.59	22.78	30	-7.22
				100	0	20.65	22.84	30	-7.16
	20175	1732.5	QPSK	1	0	20.80	22.99	30	-7.01
				1	99	21.92	24.11	30	-5.89
				50	25	20.39	22.58	30	-7.42
				100	0	20.10	22.29	30	-7.71
	20300	1745	QPSK	1	0	21.97	24.16	30	-5.84
				1	99	20.60	22.79	30	-7.21
				50	25	20.40	22.59	30	-7.41
				100	0	20.85	23.04	30	-6.96
20	20050	1720	16QAM	1	0	18.50	20.69	30	-9.31
				1	99	19.97	22.16	30	-7.84
				50	25	19.55	21.74	30	-8.26
				100	0	19.43	21.62	30	-8.38
	20175	1732.5	16QAM	1	0	20.47	22.66	30	-7.34
				1	99	20.39	22.58	30	-7.42
				50	25	19.66	21.85	30	-8.15
				100	0	19.78	21.97	30	-8.03
	20300	1745	16QAM	1	0	20.49	22.68	30	-7.32
				1	99	19.72	21.91	30	-8.09
				50	25	19.57	21.76	30	-8.24
				100	0	19.40	21.59	30	-8.41

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Antenna gain (dBi)		0.34								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	22.13	22.47	20.32	38.45	-18.13
				1	5	22.65	22.99	20.84	38.45	-17.61
				3	2	22.27	22.61	20.46	38.45	-17.99
				6	0	22.16	22.50	20.35	38.45	-18.1
	20525	836.5	QPSK	1	0	22.54	22.88	20.73	38.45	-17.72
				1	5	22.39	22.73	20.58	38.45	-17.87
				3	2	22.57	22.91	20.76	38.45	-17.69
				6	0	21.97	22.31	20.16	38.45	-18.29
	20643	848.3	QPSK	1	0	22.55	22.89	20.74	38.45	-17.71
				1	5	22.33	22.67	20.52	38.45	-17.93
				3	2	22.40	22.74	20.59	38.45	-17.86
				6	0	22.08	22.42	20.27	38.45	-18.18
1.4	20407	824.7	16QAM	1	0	21.58	21.92	19.77	38.45	-18.68
				1	5	21.75	22.09	19.94	38.45	-18.51
				3	2	21.37	21.71	19.56	38.45	-18.89
				6	0	20.85	21.19	19.04	38.45	-19.41
	20525	836.5	16QAM	1	0	22.04	22.38	20.23	38.45	-18.22
				1	5	21.83	22.17	20.02	38.45	-18.43
				3	2	21.67	22.01	19.86	38.45	-18.59
				6	0	20.77	21.11	18.96	38.45	-19.49
	20643	848.3	16QAM	1	0	22.28	22.62	20.47	38.45	-17.98
				1	5	22.16	22.50	20.35	38.45	-18.1
				3	2	21.97	22.31	20.16	38.45	-18.29
				6	0	20.90	21.24	19.09	38.45	-19.36

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Antenna gain (dBi)		0.34								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.32	23.66	21.51	38.45	-16.94
				1	14	23.09	23.43	21.28	38.45	-17.17
				8	4	22.31	22.65	20.50	38.45	-17.95
				15	0	22.27	22.61	20.46	38.45	-17.99
	20525	836.5	QPSK	1	0	23.00	23.34	21.19	38.45	-17.26
				1	14	23.31	23.65	21.50	38.45	-16.95
				8	4	22.32	22.66	20.51	38.45	-17.94
				15	0	22.18	22.52	20.37	38.45	-18.08
	20635	847.5	QPSK	1	0	23.81	24.15	22.00	38.45	-16.45
				1	14	23.20	23.54	21.39	38.45	-17.06
				8	4	22.24	22.58	20.43	38.45	-18.02
				15	0	22.25	22.59	20.44	38.45	-18.01
3	20415	825.5	16QAM	1	0	22.25	22.59	20.44	38.45	-18.01
				1	14	19.79	20.13	17.98	38.45	-20.47
				8	4	21.07	21.41	19.26	38.45	-19.19
				15	0	20.95	21.29	19.14	38.45	-19.31
	20525	836.5	16QAM	1	0	21.67	22.01	19.86	38.45	-18.59
				1	14	21.46	21.80	19.65	38.45	-18.8
				8	4	21.08	21.42	19.27	38.45	-19.18
				15	0	21.21	21.55	19.40	38.45	-19.05
	20635	847.5	16QAM	1	0	22.31	22.65	20.50	38.45	-17.95
				1	14	21.90	22.24	20.09	38.45	-18.36
				8	4	21.40	21.74	19.59	38.45	-18.86
				15	0	21.23	21.57	19.42	38.45	-19.03

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Antenna gain (dBi)		0.34								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.05	23.39	21.24	38.45	-17.21
				1	24	23.07	23.41	21.26	38.45	-17.19
				12	6	22.31	22.65	20.50	38.45	-17.95
				25	0	22.28	22.62	20.47	38.45	-17.98
	20525	836.5	QPSK	1	0	22.93	23.27	21.12	38.45	-17.33
				1	24	23.25	23.59	21.44	38.45	-17.01
				12	6	22.25	22.59	20.44	38.45	-18.01
				25	0	22.07	22.41	20.26	38.45	-18.19
	20625	846.5	QPSK	1	0	23.36	23.70	21.55	38.45	-16.9
				1	24	23.08	23.42	21.27	38.45	-17.18
				12	6	22.29	22.63	20.48	38.45	-17.97
				25	0	22.32	22.66	20.51	38.45	-17.94
5	20425	826.5	16QAM	1	0	22.09	22.43	20.28	38.45	-18.17
				1	24	22.16	22.50	20.35	38.45	-18.1
				12	6	21.08	21.42	19.27	38.45	-19.18
				25	0	21.08	21.42	19.27	38.45	-19.18
	20525	836.5	16QAM	1	0	21.94	22.28	20.13	38.45	-18.32
				1	24	22.27	22.61	20.46	38.45	-17.99
				12	6	21.25	21.59	19.44	38.45	-19.01
				25	0	21.21	21.55	19.40	38.45	-19.05
	20625	846.5	16QAM	1	0	21.77	22.11	19.96	38.45	-18.49
				1	24	21.36	21.70	19.55	38.45	-18.9
				12	6	21.22	21.56	19.41	38.45	-19.04
				25	0	21.36	21.70	19.55	38.45	-18.9

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Antenna gain (dBi)		0.34								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.40	23.74	21.59	38.45	-16.86
				1	49	23.11	23.45	21.30	38.45	-17.15
				25	12	22.31	22.65	20.50	38.45	-17.95
				50	0	22.28	22.62	20.47	38.45	-17.98
	20525	836.5	QPSK	1	0	23.14	23.48	21.33	38.45	-17.12
				1	49	23.28	23.62	21.47	38.45	-16.98
				25	12	22.29	22.63	20.48	38.45	-17.97
				50	0	22.25	22.59	20.44	38.45	-18.01
	20600	844	QPSK	1	0	23.11	23.45	21.30	38.45	-17.15
				1	49	23.39	23.73	21.58	38.45	-16.87
				25	12	22.37	22.71	20.56	38.45	-17.89
				50	0	22.41	22.75	20.60	38.45	-17.85
10	20450	829	16QAM	1	0	22.24	22.58	20.43	38.45	-18.02
				1	49	22.09	22.43	20.28	38.45	-18.17
				25	12	21.41	21.75	19.60	38.45	-18.85
				50	0	20.52	20.86	18.71	38.45	-19.74
	20525	836.5	16QAM	1	0	21.69	22.03	19.88	38.45	-18.57
				1	49	20.26	20.60	18.45	38.45	-20
				25	12	21.32	21.66	19.51	38.45	-18.94
				50	0	20.94	21.28	19.13	38.45	-19.32
	20600	844	16QAM	1	0	21.79	22.13	19.98	38.45	-18.47
				1	49	22.35	22.69	20.54	38.45	-17.91
				25	12	21.40	21.74	19.59	38.45	-18.86
				50	0	20.97	21.31	19.16	38.45	-19.29

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Antenna gain (dBi)		2.47								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.61	25.08	22.93	34.77	-11.84
				1	5	22.68	25.15	23.00	34.77	-11.77
				3	2	22.32	24.79	22.64	34.77	-12.13
				6	0	21.57	24.04	21.89	34.77	-12.88
	23095	707.5	QPSK	1	0	22.49	24.96	22.81	34.77	-11.96
				1	5	22.20	24.67	22.52	34.77	-12.25
				3	2	22.52	24.99	22.84	34.77	-11.93
				6	0	21.74	24.21	22.06	34.77	-12.71
	23173	715.3	QPSK	1	0	22.44	24.91	22.76	34.77	-12.01
				1	5	22.17	24.64	22.49	34.77	-12.28
				3	2	22.26	24.73	22.58	34.77	-12.19
				6	0	21.30	23.77	21.62	34.77	-13.15
1.4	23017	699.7	16QAM	1	0	20.83	23.30	21.15	34.77	-13.62
				1	5	20.63	23.10	20.95	34.77	-13.82
				3	2	20.83	23.30	21.15	34.77	-13.62
				6	0	20.79	23.26	21.11	34.77	-13.66
	23095	707.5	16QAM	1	0	20.87	23.34	21.19	34.77	-13.58
				1	5	21.38	23.85	21.70	34.77	-13.07
				3	2	21.69	24.16	22.01	34.77	-12.76
				6	0	20.76	23.23	21.08	34.77	-13.69
	23173	715.3	16QAM	1	0	21.09	23.56	21.41	34.77	-13.36
				1	5	21.10	23.57	21.42	34.77	-13.35
				3	2	21.57	24.04	21.89	34.77	-12.88
				6	0	20.01	22.48	20.33	34.77	-14.44

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Antenna gain (dBi)		2.47								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.86	25.33	23.18	34.77	-11.59
				1	14	22.48	24.95	22.80	34.77	-11.97
				8	4	21.54	24.01	21.86	34.77	-12.91
				15	0	21.65	24.12	21.97	34.77	-12.8
	23095	707.5	QPSK	1	0	22.01	24.48	22.33	34.77	-12.44
				1	14	22.45	24.92	22.77	34.77	-12
				8	4	21.69	24.16	22.01	34.77	-12.76
				15	0	21.64	24.11	21.96	34.77	-12.81
	23165	714.5	QPSK	1	0	22.49	24.96	22.81	34.77	-11.96
				1	14	22.42	24.89	22.74	34.77	-12.03
				8	4	21.41	23.88	21.73	34.77	-13.04
				15	0	21.39	23.86	21.71	34.77	-13.06
3	23025	700.5	16QAM	1	0	21.72	24.19	22.04	34.77	-12.73
				1	14	21.12	23.59	21.44	34.77	-13.33
				8	4	20.72	23.19	21.04	34.77	-13.73
				15	0	20.40	22.87	20.72	34.77	-14.05
	23095	707.5	16QAM	1	0	21.44	23.91	21.76	34.77	-13.01
				1	14	21.88	24.35	22.20	34.77	-12.57
				8	4	20.64	23.11	20.96	34.77	-13.81
				15	0	20.58	23.05	20.90	34.77	-13.87
	23165	714.5	16QAM	1	0	21.44	23.91	21.76	34.77	-13.01
				1	14	20.71	23.18	21.03	34.77	-13.74
				8	4	20.42	22.89	20.74	34.77	-14.03
				15	0	20.43	22.90	20.75	34.77	-14.02

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Antenna gain (dBi)		2.47								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.74	25.21	23.06	34.77	-11.71
				1	24	22.95	25.42	23.27	34.77	-11.5
				12	6	22.65	25.12	22.97	34.77	-11.8
				25	0	22.34	24.81	22.66	34.77	-12.11
	23095	707.5	QPSK	1	0	23.02	25.49	23.34	34.77	-11.43
				1	24	23.67	26.14	23.99	34.77	-10.78
				12	6	22.61	25.08	22.93	34.77	-11.84
				25	0	22.62	25.09	22.94	34.77	-11.83
	23155	713.5	QPSK	1	0	22.92	25.39	23.24	34.77	-11.53
				1	24	22.94	25.41	23.26	34.77	-11.51
				12	6	22.32	24.79	22.64	34.77	-12.13
				25	0	22.24	24.71	22.56	34.77	-12.21
5	23035	701.5	16QAM	1	0	22.35	24.82	22.67	34.77	-12.1
				1	24	22.08	24.55	22.40	34.77	-12.37
				12	6	21.49	23.96	21.81	34.77	-12.96
				25	0	21.82	24.29	22.14	34.77	-12.63
	23095	707.5	16QAM	1	0	21.73	24.20	22.05	34.77	-12.72
				1	24	21.84	24.31	22.16	34.77	-12.61
				12	6	21.51	23.98	21.83	34.77	-12.94
				25	0	21.44	23.91	21.76	34.77	-13.01
	23155	713.5	16QAM	1	0	22.03	24.50	22.35	34.77	-12.42
				1	24	20.62	23.09	20.94	34.77	-13.83
				12	6	21.27	23.74	21.59	34.77	-13.18
				25	0	21.36	23.83	21.68	34.77	-13.09

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Antenna gain (dBi)		2.47								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	22.05	24.52	22.37	34.77	-12.4
				1	49	22.30	24.77	22.62	34.77	-12.15
				25	12	21.42	23.89	21.74	34.77	-13.03
				50	0	21.43	23.90	21.75	34.77	-13.02
	23095	707.5	QPSK	1	0	21.95	24.42	22.27	34.77	-12.5
				1	49	22.23	24.70	22.55	34.77	-12.22
				25	12	21.51	23.98	21.83	34.77	-12.94
				50	0	21.58	24.05	21.90	34.77	-12.87
	23130	711	QPSK	1	0	22.45	24.92	22.77	34.77	-12
				1	49	22.08	24.55	22.40	34.77	-12.37
				25	12	21.33	23.80	21.65	34.77	-13.12
				50	0	21.27	23.74	21.59	34.77	-13.18
10	23060	704	16QAM	1	0	21.13	23.60	21.45	34.77	-13.32
				1	49	21.71	24.18	22.03	34.77	-12.74
				25	12	20.06	22.53	20.38	34.77	-14.39
				50	0	20.15	22.62	20.47	34.77	-14.3
	23095	707.5	16QAM	1	0	21.85	24.32	22.17	34.77	-12.6
				1	49	20.99	23.46	21.31	34.77	-13.46
				25	12	20.60	23.07	20.92	34.77	-13.85
				50	0	20.39	22.86	20.71	34.77	-14.06
	23130	711	16QAM	1	0	21.11	23.58	21.43	34.77	-13.34
				1	49	20.92	23.39	21.24	34.77	-13.53
				25	12	20.65	23.12	20.97	34.77	-13.8
				50	0	20.20	22.67	20.52	34.77	-14.25

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Antenna gain (dBi)		1.75								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	22.67	24.42	22.27	34.77	-12.5
				1	24	22.90	24.65	22.50	34.77	-12.27
				12	6	21.88	23.63	21.48	34.77	-13.29
				25	0	21.92	23.67	21.52	34.77	-13.25
	23230	782	QPSK	1	0	22.50	24.25	22.10	34.77	-12.67
				1	24	23.01	24.76	22.61	34.77	-12.16
				12	6	22.11	23.86	21.71	34.77	-13.06
				25	0	22.12	23.87	21.72	34.77	-13.05
	23255	784.5	QPSK	1	0	22.99	24.74	22.59	34.77	-12.18
				1	24	23.53	25.28	23.13	34.77	-11.64
				12	6	22.00	23.75	21.60	34.77	-13.17
				25	0	22.04	23.79	21.64	34.77	-13.13
5	23205	779.5	16QAM	1	0	21.37	23.12	20.97	34.77	-13.8
				1	24	20.74	22.49	20.34	34.77	-14.43
				12	6	20.81	22.56	20.41	34.77	-14.36
				25	0	20.80	22.55	20.40	34.77	-14.37
	23230	782	16QAM	1	0	21.54	23.29	21.14	34.77	-13.63
				1	24	22.40	24.15	22.00	34.77	-12.77
				12	6	20.93	22.68	20.53	34.77	-14.24
				25	0	21.15	22.90	20.75	34.77	-14.02
	23255	784.5	16QAM	1	0	21.91	23.66	21.51	34.77	-13.26
				1	24	20.86	22.61	20.46	34.77	-14.31
				12	6	20.90	22.65	20.50	34.77	-14.27
				25	0	20.21	21.96	19.81	34.77	-14.96

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Antenna gain (dBi)		1.75								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	21.75	23.50	21.35	34.77	-13.42
				1	49	23.25	25.00	22.85	34.77	-11.92
				25	12	22.00	23.75	21.60	34.77	-13.17
				50	0	22.01	23.76	21.61	34.77	-13.16
10	23230	782	16QAM	1	0	21.34	23.09	20.94	34.77	-13.83
				1	49	21.65	23.40	21.25	34.77	-13.52
				25	12	21.17	22.92	20.77	34.77	-14
				50	0	20.65	22.40	20.25	34.77	-14.52

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Antenna gain (dBi)		2.47								
LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.26	24.73	22.58	34.77	-12.19
				1	24	22.55	25.02	22.87	34.77	-11.9
				12	6	21.56	24.03	21.88	34.77	-12.89
				25	0	21.61	24.08	21.93	34.77	-12.84
	23790	710	QPSK	1	0	22.56	25.03	22.88	34.77	-11.89
				1	24	21.86	24.33	22.18	34.77	-12.59
				12	6	21.58	24.05	21.90	34.77	-12.87
				25	0	21.47	23.94	21.79	34.77	-12.98
	23825	713.5	QPSK	1	0	22.01	24.48	22.33	34.77	-12.44
				1	24	21.89	24.36	22.21	34.77	-12.56
				12	6	21.44	23.91	21.76	34.77	-13.01
				25	0	21.37	23.84	21.69	34.77	-13.08
5	23755	706.5	16QAM	1	0	21.51	23.98	21.83	34.77	-12.94
				1	24	20.88	23.35	21.20	34.77	-13.57
				12	6	20.83	23.30	21.15	34.77	-13.62
				25	0	20.73	23.20	21.05	34.77	-13.72
	23790	710	16QAM	1	0	20.48	22.95	20.80	34.77	-13.97
				1	24	21.28	23.75	21.60	34.77	-13.17
				12	6	20.45	22.92	20.77	34.77	-14
				25	0	20.71	23.18	21.03	34.77	-13.74
	23825	713.5	16QAM	1	0	21.04	23.51	21.36	34.77	-13.41
				1	24	19.79	22.26	20.11	34.77	-14.66
				12	6	20.33	22.80	20.65	34.77	-14.12
				25	0	20.49	22.96	20.81	34.77	-13.96

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.05	25.52	23.37	34.77	-11.4
				1	49	23.19	25.66	23.51	34.77	-11.26
				25	12	22.57	25.04	22.89	34.77	-11.88
				50	0	22.56	25.03	22.88	34.77	-11.89
	23790	710	QPSK	1	0	22.76	25.23	23.08	34.77	-11.69
				1	49	23.33	25.80	23.65	34.77	-11.12
				25	12	22.48	24.95	22.80	34.77	-11.97
				50	0	22.48	24.95	22.80	34.77	-11.97
	23800	711	QPSK	1	0	23.50	25.97	23.82	34.77	-10.95
				1	49	23.27	25.74	23.59	34.77	-11.18
				25	12	22.49	24.96	22.81	34.77	-11.96
				50	0	22.48	24.95	22.80	34.77	-11.97
10	23780	709	16QAM	1	0	22.60	25.07	22.92	34.77	-11.85
				1	49	22.19	24.66	22.51	34.77	-12.26
				25	12	21.48	23.95	21.80	34.77	-12.97
				50	0	21.50	23.97	21.82	34.77	-12.95
	23790	710	16QAM	1	0	21.90	24.37	22.22	34.77	-12.55
				1	49	21.17	23.64	21.49	34.77	-13.28
				25	12	21.67	24.14	21.99	34.77	-12.78
				50	0	21.36	23.83	21.68	34.77	-13.09
	23800	711	16QAM	1	0	21.12	23.59	21.44	34.77	-13.33
				1	49	21.47	23.94	21.79	34.77	-12.98
				25	12	21.48	23.95	21.80	34.77	-12.97
				50	0	21.08	23.55	21.40	34.77	-13.37

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Antenna gain (dBi)		2.19							
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)
1.4	131979	1710.7	QPSK	1	0	21.38	23.57	30	-6.43
				1	5	21.25	23.44	30	-6.56
				3	2	21.36	23.55	30	-6.45
				6	0	20.19	22.38	30	-7.62
	132322	1745	QPSK	1	0	20.90	23.09	30	-6.91
				1	5	20.72	22.91	30	-7.09
				3	2	20.60	22.79	30	-7.21
				6	0	19.66	21.85	30	-8.15
	132665	1779.3	QPSK	1	0	19.61	21.80	30	-8.2
				1	5	19.65	21.84	30	-8.16
				3	2	19.60	21.79	30	-8.21
				6	0	18.60	20.79	30	-9.21
1.4	131979	1710.7	16QAM	1	0	19.84	22.03	30	-7.97
				1	5	20.41	22.60	30	-7.4
				3	2	20.53	22.72	30	-7.28
				6	0	18.93	21.12	30	-8.88
	132322	1745	16QAM	1	0	19.65	21.84	30	-8.16
				1	5	19.39	21.58	30	-8.42
				3	2	19.61	21.80	30	-8.2
				6	0	18.58	20.77	30	-9.23
	132665	1779.3	16QAM	1	0	18.55	20.74	30	-9.26
				1	5	19.14	21.33	30	-8.67
				3	2	19.82	22.01	30	-7.99
				6	0	18.34	20.53	30	-9.47

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	21.12	23.31	30	-6.69
				1	14	21.00	23.19	30	-6.81
				8	4	20.12	22.31	30	-7.69
				15	0	20.10	22.29	30	-7.71
	132322	1745	QPSK	1	0	20.34	22.53	30	-7.47
				1	14	20.48	22.67	30	-7.33
				8	4	19.19	21.38	30	-8.62
				15	0	19.49	21.68	30	-8.32
	132657	1778.5	QPSK	1	0	19.88	22.07	30	-7.93
				1	14	19.63	21.82	30	-8.18
				8	4	18.86	21.05	30	-8.95
				15	0	18.70	20.89	30	-9.11
3	131987	1711.5	16QAM	1	0	19.94	22.13	30	-7.87
				1	14	19.74	21.93	30	-8.07
				8	4	19.03	21.22	30	-8.78
				15	0	19.15	21.34	30	-8.66
	132322	1745	16QAM	1	0	19.48	21.67	30	-8.33
				1	14	19.68	21.87	30	-8.13
				8	4	18.71	20.90	30	-9.1
				15	0	18.33	20.52	30	-9.48
	132657	1778.5	16QAM	1	0	19.10	21.29	30	-8.71
				1	14	18.88	21.07	30	-8.93
				8	4	18.38	20.57	30	-9.43
				15	0	18.12	20.31	30	-9.69

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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)
5	131997	1712.5	QPSK	1	0	21.34	23.53	30	-6.47
				1	24	21.07	23.26	30	-6.74
				12	6	20.07	22.26	30	-7.74
				25	0	20.14	22.33	30	-7.67
	132322	1745	QPSK	1	0	20.70	22.89	30	-7.11
				1	24	20.79	22.98	30	-7.02
				12	6	19.52	21.71	30	-8.29
				25	0	19.42	21.61	30	-8.39
	132647	1777.5	QPSK	1	0	20.10	22.29	30	-7.71
				1	24	19.39	21.58	30	-8.42
				12	6	18.92	21.11	30	-8.89
				25	0	18.93	21.12	30	-8.88
5	131997	1712.5	16QAM	1	0	19.87	22.06	30	-7.94
				1	24	19.64	21.83	30	-8.17
				12	6	19.15	21.34	30	-8.66
				25	0	19.27	21.46	30	-8.54
	132322	1745	16QAM	1	0	19.47	21.66	30	-8.34
				1	24	19.46	21.65	30	-8.35
				12	6	18.45	20.64	30	-9.36
				25	0	18.64	20.83	30	-9.17
	132647	1777.5	16QAM	1	0	19.29	21.48	30	-8.52
				1	24	18.39	20.58	30	-9.42
				12	6	18.22	20.41	30	-9.59
				25	0	18.45	20.64	30	-9.36

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	21.41	23.60	30	-6.4
				1	49	20.24	22.43	30	-7.57
				25	12	20.00	22.19	30	-7.81
				50	0	20.04	22.23	30	-7.77
	132322	1745	QPSK	1	0	20.86	23.05	30	-6.95
				1	49	19.90	22.09	30	-7.91
				25	12	19.45	21.64	30	-8.36
				50	0	19.48	21.67	30	-8.33
	132622	1775	QPSK	1	0	20.09	22.28	30	-7.72
				1	49	19.60	21.79	30	-8.21
				25	12	19.32	21.51	30	-8.49
				50	0	19.35	21.54	30	-8.46
10	132022	1715	16QAM	1	0	20.66	22.85	30	-7.15
				1	49	19.53	21.72	30	-8.28
				25	12	19.22	21.41	30	-8.59
				50	0	19.32	21.51	30	-8.49
	132322	1745	16QAM	1	0	19.60	21.79	30	-8.21
				1	49	19.89	22.08	30	-7.92
				25	12	18.44	20.63	30	-9.37
				50	0	18.95	21.14	30	-8.86
	132622	1775	16QAM	1	0	20.04	22.23	30	-7.77
				1	49	18.34	20.53	30	-9.47
				25	12	18.47	20.66	30	-9.34
				50	0	18.56	20.75	30	-9.25

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15	132047	1717.5	QPSK	1	0	21.36	23.55	30	-6.45
				1	74	20.78	22.97	30	-7.03
				36	18	19.77	21.96	30	-8.04
				75	0	19.78	21.97	30	-8.03
	132322	1745	QPSK	1	0	21.01	23.20	30	-6.8
				1	74	21.20	23.39	30	-6.61
				36	18	19.46	21.65	30	-8.35
				75	0	19.28	21.47	30	-8.53
	132597	1772.5	QPSK	1	0	19.68	21.87	30	-8.13
				1	74	17.60	19.79	30	-10.21
				36	18	17.68	19.87	30	-10.13
				75	0	17.55	19.74	30	-10.26
15	132047	1717.5	16QAM	1	0	19.87	22.06	30	-7.94
				1	74	19.70	21.89	30	-8.11
				36	18	20.10	22.29	30	-7.71
				75	0	19.65	21.84	30	-8.16
	132322	1745	16QAM	1	0	19.38	21.57	30	-8.43
				1	74	19.44	21.63	30	-8.37
				36	18	19.50	21.69	30	-8.31
				75	0	19.43	21.62	30	-8.38
	132597	1772.5	16QAM	1	0	19.69	21.88	30	-8.12
				1	74	19.07	21.26	30	-8.74
				36	18	18.69	20.88	30	-9.12
				75	0	18.82	21.01	30	-8.99

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SGS Taiwan Ltd.

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Antenna gain (dBi)		2.19							
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)
20	132072	1720	QPSK	1	0	21.27	23.46	30	-6.54
				1	99	20.81	23.00	30	-7
				50	25	19.75	21.94	30	-8.06
				100	0	19.83	22.02	30	-7.98
	132322	1745	QPSK	1	0	21.04	23.23	30	-6.77
				1	99	21.26	23.45	30	-6.55
				50	25	19.58	21.77	30	-8.23
				100	0	19.72	21.91	30	-8.09
	132572	1770	QPSK	1	0	20.22	22.41	30	-7.59
				1	99	19.75	21.94	30	-8.06
				50	25	20.00	22.19	30	-7.81
				100	0	19.99	22.18	30	-7.82
20	132072	1720	16QAM	1	0	20.12	22.31	30	-7.69
				1	99	19.85	22.04	30	-7.96
				50	25	19.79	21.98	30	-8.02
				100	0	19.90	22.09	30	-7.91
	132322	1745	16QAM	1	0	18.89	21.08	30	-8.92
				1	99	18.85	21.04	30	-8.96
				50	25	18.65	20.84	30	-9.16
				100	0	18.70	20.89	30	-9.11
	132572	1770	16QAM	1	0	19.91	22.10	30	-7.9
				1	99	19.41	21.60	30	-8.4
				50	25	18.93	21.12	30	-8.88
				100	0	18.99	21.18	30	-8.82

~ End of Report ~

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