

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT****Partial**

Applicant: Telit Communications S.p.A.
Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste

Manufacturer: Telit Wireless Solutions. Co. Ltd.
13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,
Yeongdeungpo-gu, Seoul, 07330, South Korea

Product Name: LN920A12-WW / LN920A6-WW

Brand Name: Telit

Model No.: LN920A12-WW / LN920A6-WW

Model Difference: Refer to Page 4

Report Number: TERF2206000793ER

FCC ID RI7LN920

IC: 5131A-LN920

Issue Date: August 1, 2022

Date of Test: June 8, 2022 ~ July 28, 2022

Date of EUT Received: June 6, 2022

Approved By**Blue Yang****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 & 27 C & 90S and ISSED RSS-Gen, 130, 132, 133, 139, 140, 195, 199.

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2206000793ER	00	HW change from 1.0 to 1.1	August 1, 2022	Yuri Tsai	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received, and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、This is a partial test report with modification from HW1.0 to HW 1.1 based on the EUT in the original report ER/2021/A0027-01 to demonstrate compliance of modification of RF switches and passive filters with identical specification. Maximum output power, conducted out of band emissions and spurious emissions are tested in this report.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	LN920A12-WW / LN920A6-WW
Brand Name:	Telit
Model No.:	LN920A12-WW / LN920A6-WW
Model Difference:	1. Internal Component is different between two models. 2. Capability is different between two models.
Hardware Version:	1.1
Firmware Version:	LN920A12-WW: M0L.000002 / LN920A6-WW : M0L.010002
EUT Series No.:	354175753009531
Power Supply:	3.3Vdc
Test Software (Name/Version)	Default

1.2 Model difference

- The mobile data modem chip on U200 between two models are pin for pin compatible with identical internal circuits.
- The **LN920A6-WW** uses MOBILE DATA MODEM SDX12-2 with CAT12 features disabled by a fuse bit with different FVIN.
- The **LN920A12-WW** is tested as the representative sample with the most modem capabilities.

Model	FVIN	Component on U200	Modem Capability
LN920A12-WW	M0L.000002	MOBILE DATA MODEM SDX12-0	LTE, 4 × 4 MIMO, CA 60 MHz DL 256QAM DL, CA 40 MHz UL, 64 QAM UL,
LN920A6-WW	M0L.010002	MOBILE DATA MODEM SDX12-2	LTE, 4 × 4 MIMO, CA 40 MHz DL, 64 QAM DL, CA 20 MHz UL, 16 QAM UL

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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 7			
BW (MHz)	Operation Frequency (MHz)		
5	2502.5	-	2567.5
10	2505.0	-	2565.0
15	2507.5	-	2562.5
20	2510.0	-	2560.0

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 14			
BW (MHz)	Operation Frequency (MHz)		
5	790.5	-	795.5
10	793.0	-	
LTE Band 17			
BW (MHz)	Operation Frequency (MHz)		
5	706.5	-	713.5
10	709.0	-	711.0
LTE Band 25			
BW (MHz)	Operation Frequency (MHz)		
1.4	1850.7	-	1914.3
3	1851.5	-	1913.5
5	1852.5	-	1912.5
10	1855.0	-	1910.0
15	1857.5	-	1907.5
20	1860.0	-	1905.0

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LTE Band 26			
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
15	831.5	-	841.5
LTE Band 26 Part 90			
BW (MHz)	Operation Frequency (MHz)		
1.4	814.7	-	823.3
3	815.5	-	822.5
5	816.5	-	821.5
10	819.0	-	
LTE Band 30			
BW (MHz)	Operation Frequency (MHz)		
5	2307.5	-	2312.5
10	2310.0	-	
LTE Band 38			
BW (MHz)	Operation Frequency (MHz)		
5	2572.5	-	2617.5
10	2575.0	-	2615.0
15	2577.5	-	2612.5
20	2580.0	-	2610.0

LTE Band 41			
BW (MHz)	Operation Frequency (MHz)		
5	2498.5	-	2687.5
10	2501.0	-	2685.0
15	2503.5	-	2682.5
20	2506.0	-	2680.0
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
LTE Band 71			
BW (MHz)	Operation Frequency (MHz)		
5	665.5	-	695.5
10	688.0	-	693.0
15	670.5	-	690.5
20	673.0	-	688.0

Note: Operation in 814~824MHz is disabled in Canada

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1.4 Antenna Designation

Antenna Type	Antenna Model No.
Monopole	TG.55.8113
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Type	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Monopole	LTE-Band 2	1850 ~ 1910	3.05
	LTE-Band 4	1710 ~ 1755	3.4
	LTE-Band 5	824 ~ 849	3.2
	LTE-Band 7	2500 ~ 2570	3.12
	LTE-Band 12	699 ~ 716	2.51
	LTE-Band 13	777 ~ 787	2.51
	LTE-Band 14	788 ~ 798	2.51
	LTE-Band 17	704 ~ 716	2.51
	LTE-Band 25	1850 ~ 1915	3.05
	LTE-Band 26	824 ~ 849	2.51
	LTE-Band 26 Part 90	814 ~ 824	3.2
	LTE-Band 30	2305 ~ 2315	3.12
	LTE-Band 38	2570 ~ 2620	3.12
	LTE-Band 41	2496 ~ 2690	3.12
	LTE-Band 66	1710 ~ 1780	3.4
	LTE-Band 71	663 ~ 698	1.26

Note: Antenna information is provided by the applicant.

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018,

ISED RSS-139 Issue 3 July 16, 2015

ISED RSS-140 Issue 1 Apr. 2018,

ISED RSS-195 Issue 2 Apr. 24, 2014

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

1.6 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 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.

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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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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.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a 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.

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 Final Amplifier Voltage and Current Information:**LTE Band 2**

Test mode	DC voltage (V)	DC current (mA)
LTE Band 2_20M QPSK	3.3	490

LTE Band 4

Test mode	DC voltage (V)	DC current (mA)
LTE Band 4_20M QPSK	3.3	480

LTE Band 5

Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	3.3	480

LTE Band 7

Test mode	DC voltage (V)	DC current (mA)
LTE Band 7_20M QPSK	3.3	470

LTE Band 12

Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	3.3	490

LTE Band 13

Test mode	DC voltage (V)	DC current (mA)
LTE Band 13_10M QPSK	3.3	460

LTE Band 14

Test mode	DC voltage (V)	DC current (mA)
LTE Band 14_10M QPSK	3.3	470

LTE Band 17

Test mode	DC voltage (V)	DC current (mA)
LTE Band 17_10M QPSK	3.3	480

LTE Band 25

Test mode	DC voltage (V)	DC current (mA)
LTE Band 25_20M QPSK	3.3	480

LTE Band 26 for Part 90S

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 26_10M QPSK	3.3	480

LTE Band 26

Test mode	DC voltage (V)	DC current (mA)
LTE Band 26_15M QPSK	3.3	470

LTE Band 30

Test mode	DC voltage (V)	DC current (mA)
LTE Band 30_10M QPSK	3.3	490

LTE Band 38

Test mode	DC voltage (V)	DC current (mA)
LTE Band 38_20M QPSK	3.3	490

LTE Band 41

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 41_20M QPSK	3.3	450

LTE Band 66

Test mode	DC voltage (V)	DC current (mA)
LTE Band 66_20M QPSK	3.3	470

LTE Band 71

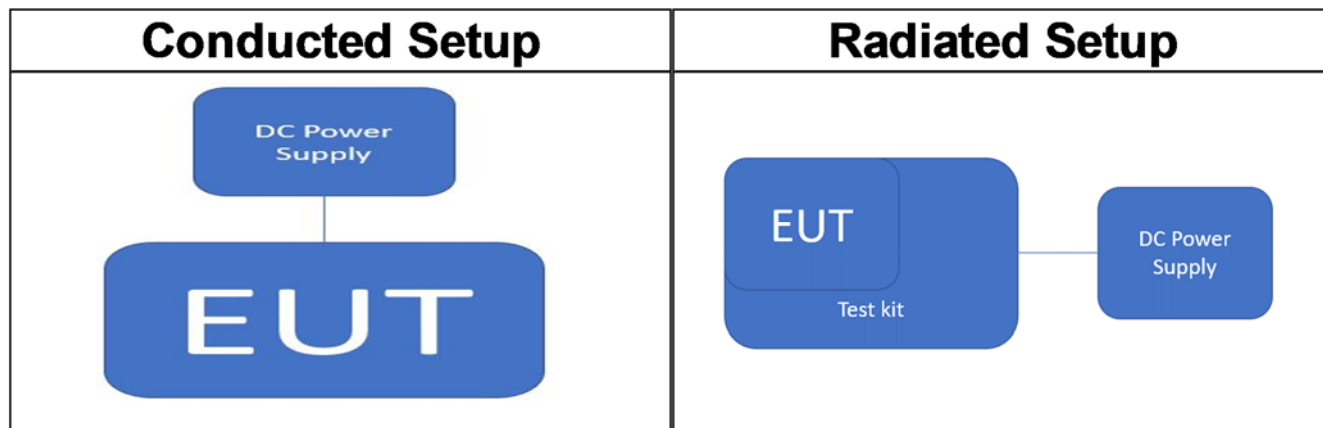
Test mode	DC voltage (V)	DC current (mA)
LTE Band 71_20M QPSK	3.3	460

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2.6 Test Configuration



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

2.7 Control Unit(s)

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R

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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(a)(3) §27.50(b)(10) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.542(a)(7) §90.635	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-140 §4.3 RSS-195 §5.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1051 §22.917(a) §24.238(a) §27.50(c)(5) §27.53(c)(2),(4) §27.53(g) §27.53(h) §27.53(m)(4)(6) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 RSS-195 §5.6 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 RSS-195 §5.6 RSS-199 §4.5	Field Strength of Spurious Radiation	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 scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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	64QAM	1	Half	Full
2	V	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	V
5	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V
7	V	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	V
13	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V
14	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V
17	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V
25	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
26	V	V	V	V	V	V	V	V	-	V	V	V	V	V	V
26 P90	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V
30	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V
38	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V
41	V	V	V	-	-	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	V
71	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V

Test Items				Band Edge											
Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
2	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
5	V	-	V	V	V	V	V	-	-	V	-	-	V	V	V
7	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V
12	V	-	V	V	V	V	V	-	-	V	-	-	V	V	V
13	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
14	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
17	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
25	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
26	V	-	V	V	V	V	V	V	-	V	-	-	V	V	V
26 P90	V	-	V	V	V	V	V	-	-	V	-	-	V	V	V
30	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
38	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V
41	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V
66	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
71	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.68 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.57 dB	9kHz~30MHz
	+/-	4.85 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.57 dB	9kHz~30MHz
	+/-	4.37 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz

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 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/13/2021	10/12/2022
Radio Communication Analyser	Anritsu	MT8821C	6261786084	01/18/2022	01/17/2023
DC Power Supply	Agilent	E3640A	MY52410006	12/21/2021	12/20/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-020	12/14/2021	12/13/2022

6.2 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/20/2021	12/19/2022
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/03/2022	01/02/2023
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/16/2022	05/15/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Site Cal	SGS	SAC I chamber	N/A	01/01/2022	12/31/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2021	10/25/2022
Signal Generator	R&S	SMBV100A	263084	01/11/2022	01/10/2023
Radio Communication Analyser	Anritsu	MT8821C	6261786084	01/18/2022	01/17/2023
DC Power Supply	Gwinstek	SPS-3610	GEV856750	08/04/2021	08/03/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/14/2021	12/13/2022
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/14/2021	12/13/2022
Bandreject Filter 1700-2000	Micro-Tronics	EWT	M3	12/14/2021	12/13/2022
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/14/2021	12/13/2022
1.3G-15GHz High Pass Filter	WI	WHKX10-1066-80SS	19	12/14/2021	12/13/2022
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2021	12/15/2022

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7 MAXIMUM OUTPUT POWER

7.1 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.

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 (a)

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

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.

FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

FCC 90.542(a)

(6) Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

FCC 90.635(b)

Mobile station is limited to 100W ERP

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RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

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 equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

RSS-139 §6.5

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

RSS-140 §4.3

The equivalent radiated power (e.r.p.) for control and mobile equipment shall not exceed 30 W. The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.

RSS-195 §5.5

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

RSS-199 §4.4

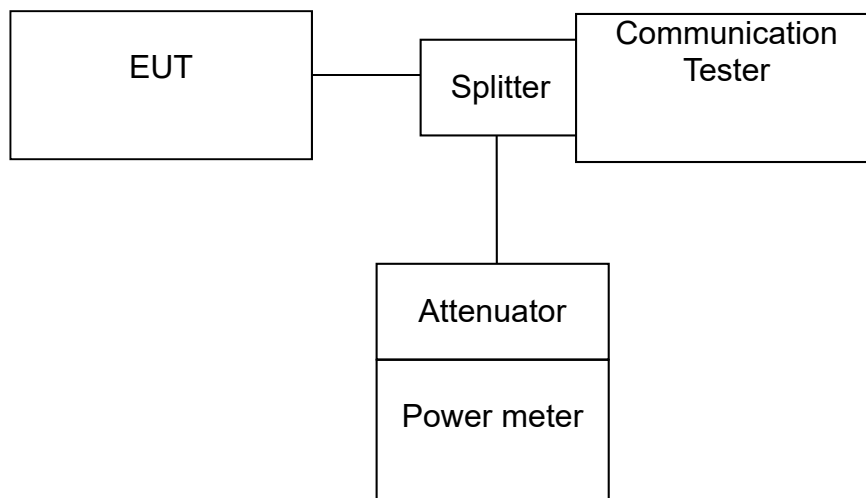
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

7.3 Output Power Measurement Applicable Guidance

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.

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.

7.4 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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7.5 Measurement Results:

Antenna gain (dBi)		3.05							
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	22.97	26.02	33	-6.98
				1	5	22.94	25.99	33	-7.01
				3	2	22.95	26.00	33	-7
				6	0	22.00	25.05	33	-7.95
	18900	1880	QPSK	1	0	22.96	26.01	33	-6.99
				1	5	22.91	25.96	33	-7.04
				3	2	23.04	26.09	33	-6.91
				6	0	22.06	25.11	33	-7.89
	19193	1909.3	QPSK	1	0	22.96	26.01	33	-6.99
				1	5	22.99	26.04	33	-6.96
				3	2	23.07	26.12	33	-6.88
				6	0	22.06	25.11	33	-7.89
1.4	18607	1850.7	16QAM	1	0	22.23	25.28	33	-7.72
				1	5	22.36	25.41	33	-7.59
				3	2	22.07	25.12	33	-7.88
				6	0	21.06	24.11	33	-8.89
	18900	1880	16QAM	1	0	22.11	25.16	33	-7.84
				1	5	22.18	25.23	33	-7.77
				3	2	22.00	25.05	33	-7.95
				6	0	21.12	24.17	33	-8.83
	19193	1909.3	16QAM	1	0	22.48	25.53	33	-7.47
				1	5	22.47	25.52	33	-7.48
				3	2	22.15	25.20	33	-7.8
				6	0	21.24	24.29	33	-8.71
1.4	18607	1850.7	64QAM	1	0	21.42	24.47	33	-8.53
				1	5	21.20	24.25	33	-8.75
				3	2	21.13	24.18	33	-8.82
				6	0	20.02	23.07	33	-9.93
	18900	1880	64QAM	1	0	21.11	24.16	33	-8.84
				1	5	21.22	24.27	33	-8.73
				3	2	21.12	24.17	33	-8.83
				6	0	20.15	23.20	33	-9.8
	19193	1909.3	64QAM	1	0	21.22	24.27	33	-8.73
				1	5	21.23	24.28	33	-8.72
				3	2	21.31	24.36	33	-8.64
				6	0	20.05	23.10	33	-9.9

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Antenna gain (dBi)		3.05							
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	22.98	26.03	33	-6.97
				1	14	23.00	26.05	33	-6.95
				8	4	22.11	25.16	33	-7.84
				15	0	22.13	25.18	33	-7.82
	18900	1880	QPSK	1	0	23.05	26.10	33	-6.9
				1	14	23.03	26.08	33	-6.92
				8	4	22.15	25.20	33	-7.8
				15	0	22.20	25.25	33	-7.75
	19185	1908.5	QPSK	1	0	23.03	26.08	33	-6.92
				1	14	23.07	26.12	33	-6.88
				8	4	22.17	25.22	33	-7.78
				15	0	22.18	25.23	33	-7.77
3	18615	1851.5	16QAM	1	0	22.46	25.51	33	-7.49
				1	14	22.40	25.45	33	-7.55
				8	4	21.20	24.25	33	-8.75
				15	0	21.16	24.21	33	-8.79
	18900	1880	16QAM	1	0	22.43	25.48	33	-7.52
				1	14	22.56	25.61	33	-7.39
				8	4	21.22	24.27	33	-8.73
				15	0	21.22	24.27	33	-8.73
	19185	1908.5	16QAM	1	0	22.30	25.35	33	-7.65
				1	14	22.40	25.45	33	-7.55
				8	4	21.13	24.18	33	-8.82
				15	0	21.22	24.27	33	-8.73
3	18615	1851.5	64QAM	1	0	21.40	24.45	33	-8.55
				1	14	21.38	24.43	33	-8.57
				8	4	20.19	23.24	33	-9.76
				15	0	20.17	23.22	33	-9.78
	18900	1880	64QAM	1	0	21.23	24.28	33	-8.72
				1	14	21.22	24.27	33	-8.73
				8	4	20.16	23.21	33	-9.79
				15	0	20.26	23.31	33	-9.69
	19185	1908.5	64QAM	1	0	21.21	24.26	33	-8.74
				1	14	21.18	24.23	33	-8.77
				8	4	20.16	23.21	33	-9.79
				15	0	20.13	23.18	33	-9.82

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Antenna gain (dBi)		3.05							
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	23.03	26.08	33	-6.92
				1	24	23.05	26.10	33	-6.9
				12	6	22.20	25.25	33	-7.75
				25	0	22.16	25.21	33	-7.79
	18900	1880	QPSK	1	0	23.14	26.19	33	-6.81
				1	24	23.15	26.20	33	-6.8
				12	6	22.23	25.28	33	-7.72
				25	0	22.25	25.30	33	-7.7
	19175	1907.5	QPSK	1	0	23.05	26.10	33	-6.9
				1	24	23.08	26.13	33	-6.87
				12	6	22.22	25.27	33	-7.73
				25	0	22.19	25.24	33	-7.76
5	18625	1852.5	16QAM	1	0	22.65	25.70	33	-7.3
				1	24	22.54	25.59	33	-7.41
				12	6	21.22	24.27	33	-8.73
				25	0	21.16	24.21	33	-8.79
	18900	1880	16QAM	1	0	22.30	25.35	33	-7.65
				1	24	22.34	25.39	33	-7.61
				12	6	21.34	24.39	33	-8.61
				25	0	21.26	24.31	33	-8.69
	19175	1907.5	16QAM	1	0	22.22	25.27	33	-7.73
				1	24	22.26	25.31	33	-7.69
				12	6	21.28	24.33	33	-8.67
				25	0	21.20	24.25	33	-8.75
5	18625	1852.5	64QAM	1	0	21.27	24.32	33	-8.68
				1	24	21.35	24.40	33	-8.6
				12	6	20.23	23.28	33	-9.72
				25	0	20.22	23.27	33	-9.73
	18900	1880	64QAM	1	0	21.51	24.56	33	-8.44
				1	24	21.42	24.47	33	-8.53
				12	6	20.39	23.44	33	-9.56
				25	0	20.21	23.26	33	-9.74
	19175	1907.5	64QAM	1	0	21.22	24.27	33	-8.73
				1	24	21.23	24.28	33	-8.72
				12	6	20.29	23.34	33	-9.66
				25	0	20.19	23.24	33	-9.76

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Antenna gain (dBi)		3.05							
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	23.06	26.11	33	-6.89
				1	49	23.07	26.12	33	-6.88
				25	12	22.17	25.22	33	-7.78
				50	0	22.18	25.23	33	-7.77
	18900	1880	QPSK	1	0	23.22	26.27	33	-6.73
				1	49	23.22	26.27	33	-6.73
				25	12	22.33	25.38	33	-7.62
				50	0	22.31	25.36	33	-7.64
	19150	1905	QPSK	1	0	23.20	26.25	33	-6.75
				1	49	23.22	26.27	33	-6.73
				25	12	22.29	25.34	33	-7.66
				50	0	22.28	25.33	33	-7.67
10	18650	1855	16QAM	1	0	22.46	25.51	33	-7.49
				1	49	22.54	25.59	33	-7.41
				25	12	21.21	24.26	33	-8.74
				50	0	21.20	24.25	33	-8.75
	18900	1880	16QAM	1	0	22.42	25.47	33	-7.53
				1	49	22.48	25.53	33	-7.47
				25	12	21.34	24.39	33	-8.61
				50	0	21.36	24.41	33	-8.59
	19150	1905	16QAM	1	0	22.30	25.35	33	-7.65
				1	49	22.47	25.52	33	-7.48
				25	12	21.26	24.31	33	-8.69
				50	0	21.26	24.31	33	-8.69
10	18650	1855	64QAM	1	0	21.09	24.14	33	-8.86
				1	49	21.20	24.25	33	-8.75
				25	12	20.20	23.25	33	-9.75
				50	0	20.29	23.34	33	-9.66
	18900	1880	64QAM	1	0	21.42	24.47	33	-8.53
				1	49	21.32	24.37	33	-8.63
				25	12	20.39	23.44	33	-9.56
				50	0	20.33	23.38	33	-9.62
	19150	1905	64QAM	1	0	21.45	24.50	33	-8.5
				1	49	21.51	24.56	33	-8.44
				25	12	20.27	23.32	33	-9.68
				50	0	20.23	23.28	33	-9.72

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Antenna gain (dBi)		3.05							
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	23.19	26.24	33	-6.76
				1	74	23.24	26.29	33	-6.71
				36	18	22.28	25.33	33	-7.67
				75	0	22.27	25.32	33	-7.68
	18900	1880	QPSK	1	0	23.30	26.35	33	-6.65
				1	74	23.24	26.29	33	-6.71
				36	18	22.41	25.46	33	-7.54
				75	0	22.33	25.38	33	-7.62
	19125	1902.5	QPSK	1	0	23.26	26.31	33	-6.69
				1	74	23.25	26.30	33	-6.7
				36	18	22.33	25.38	33	-7.62
				75	0	22.31	25.36	33	-7.64
15	18675	1857.5	16QAM	1	0	22.45	25.50	33	-7.5
				1	74	22.43	25.48	33	-7.52
				36	18	21.32	24.37	33	-8.63
				75	0	21.28	24.33	33	-8.67
	18900	1880	16QAM	1	0	22.45	25.50	33	-7.5
				1	74	22.49	25.54	33	-7.46
				36	18	21.40	24.45	33	-8.55
				75	0	21.40	24.45	33	-8.55
	19125	1902.5	16QAM	1	0	22.50	25.55	33	-7.45
				1	74	22.53	25.58	33	-7.42
				36	18	21.34	24.39	33	-8.61
				75	0	21.32	24.37	33	-8.63
15	18675	1857.5	64QAM	1	0	21.55	24.60	33	-8.4
				1	74	21.53	24.58	33	-8.42
				36	18	20.30	23.35	33	-9.65
				75	0	20.26	23.31	33	-9.69
	18900	1880	64QAM	1	0	21.46	24.51	33	-8.49
				1	74	21.43	24.48	33	-8.52
				36	18	20.45	23.50	33	-9.5
				75	0	20.38	23.43	33	-9.57
	19125	1902.5	64QAM	1	0	21.49	24.54	33	-8.46
				1	74	21.47	24.52	33	-8.48
				36	18	20.42	23.47	33	-9.53
				75	0	20.34	23.39	33	-9.61

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Antenna gain (dBi)		3.05							
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	23.39	26.44	33	-6.56
				1	99	23.33	26.38	33	-6.62
				50	25	22.40	25.45	33	-7.55
				100	0	22.35	25.40	33	-7.6
	18900	1880	QPSK	1	0	23.37	26.42	33	-6.58
				1	99	23.27	26.32	33	-6.68
				50	25	22.49	25.54	33	-7.46
				100	0	22.49	25.54	33	-7.46
	19100	1900	QPSK	1	0	23.34	26.39	33	-6.61
				1	99	23.29	26.34	33	-6.66
				50	25	22.42	25.47	33	-7.53
				100	0	22.39	25.44	33	-7.56
20	18700	1860	16QAM	1	0	22.64	25.69	33	-7.31
				1	99	22.50	25.55	33	-7.45
				50	25	21.45	24.50	33	-8.5
				100	0	21.40	24.45	33	-8.55
	18900	1880	16QAM	1	0	22.62	25.67	33	-7.33
				1	99	22.62	25.67	33	-7.33
				50	25	21.50	24.55	33	-8.45
				100	0	21.47	24.52	33	-8.48
	19100	1900	16QAM	1	0	22.74	25.79	33	-7.21
				1	99	22.71	25.76	33	-7.24
				50	25	21.48	24.53	33	-8.47
				100	0	21.43	24.48	33	-8.52
20	18700	1860	64QAM	1	0	21.42	24.47	33	-8.53
				1	99	21.46	24.51	33	-8.49
				50	25	20.38	23.43	33	-9.57
				100	0	20.35	23.40	33	-9.6
	18900	1880	64QAM	1	0	21.65	24.70	33	-8.3
				1	99	21.49	24.54	33	-8.46
				50	25	20.52	23.57	33	-9.43
				100	0	20.50	23.55	33	-9.45
	19100	1900	64QAM	1	0	21.48	24.53	33	-8.47
				1	99	21.49	24.54	33	-8.46
				50	25	20.42	23.47	33	-9.53
				100	0	20.42	23.47	33	-9.53

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Antenna gain (dBi)		3.4							
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	23.11	26.51	30	-3.49
				1	5	23.06	26.46	30	-3.54
				3	2	23.14	26.54	30	-3.46
				6	0	22.15	25.55	30	-4.45
	20175	1732.5	QPSK	1	0	23.07	26.47	30	-3.53
				1	5	23.04	26.44	30	-3.56
				3	2	23.11	26.51	30	-3.49
				6	0	22.15	25.55	30	-4.45
	20393	1754.3	QPSK	1	0	23.01	26.41	30	-3.59
				1	5	23.02	26.42	30	-3.58
				3	2	23.06	26.46	30	-3.54
				6	0	22.05	25.45	30	-4.55
1.4	19957	1710.7	16QAM	1	0	22.23	25.63	30	-4.37
				1	5	22.24	25.64	30	-4.36
				3	2	22.21	25.61	30	-4.39
				6	0	21.19	24.59	30	-5.41
	20175	1732.5	16QAM	1	0	22.23	25.63	30	-4.37
				1	5	22.19	25.59	30	-4.41
				3	2	22.13	25.53	30	-4.47
				6	0	21.25	24.65	30	-5.35
	20393	1754.3	16QAM	1	0	22.18	25.58	30	-4.42
				1	5	22.32	25.72	30	-4.28
				3	2	22.19	25.59	30	-4.41
				6	0	21.15	24.55	30	-5.45
1.4	19957	1710.7	64QAM	1	0	21.44	24.84	30	-5.16
				1	5	21.32	24.72	30	-5.28
				3	2	21.40	24.80	30	-5.2
				6	0	20.17	23.57	30	-6.43
	20175	1732.5	64QAM	1	0	21.30	24.70	30	-5.3
				1	5	21.21	24.61	30	-5.39
				3	2	21.32	24.72	30	-5.28
				6	0	20.12	23.52	30	-6.48
	20393	1754.3	64QAM	1	0	21.31	24.71	30	-5.29
				1	5	21.35	24.75	30	-5.25
				3	2	21.33	24.73	30	-5.27
				6	0	20.07	23.47	30	-6.53

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Antenna gain (dBi)		3.4							
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	23.02	26.42	30	-3.58
				1	14	22.96	26.36	30	-3.64
				8	4	22.13	25.53	30	-4.47
				15	0	22.14	25.54	30	-4.46
	20175	1732.5	QPSK	1	0	23.00	26.40	30	-3.6
				1	14	23.03	26.43	30	-3.57
				8	4	22.14	25.54	30	-4.46
				15	0	22.07	25.47	30	-4.53
	20385	1753.5	QPSK	1	0	23.00	26.40	30	-3.6
				1	14	22.97	26.37	30	-3.63
				8	4	22.06	25.46	30	-4.54
				15	0	22.07	25.47	30	-4.53
3	19965	1711.5	16QAM	1	0	22.32	25.72	30	-4.28
				1	14	22.30	25.70	30	-4.3
				8	4	21.26	24.66	30	-5.34
				15	0	21.25	24.65	30	-5.35
	20175	1732.5	16QAM	1	0	22.69	26.09	30	-3.91
				1	14	22.53	25.93	30	-4.07
				8	4	21.19	24.59	30	-5.41
				15	0	21.19	24.59	30	-5.41
	20385	1753.5	16QAM	1	0	22.29	25.69	30	-4.31
				1	14	22.20	25.60	30	-4.4
				8	4	21.20	24.60	30	-5.4
				15	0	21.07	24.47	30	-5.53
3	19965	1711.5	64QAM	1	0	21.43	24.83	30	-5.17
				1	14	21.30	24.70	30	-5.3
				8	4	20.29	23.69	30	-6.31
				15	0	20.20	23.60	30	-6.4
	20175	1732.5	64QAM	1	0	21.05	24.45	30	-5.55
				1	14	21.05	24.45	30	-5.55
				8	4	20.29	23.69	30	-6.31
				15	0	20.25	23.65	30	-6.35
	20385	1753.5	64QAM	1	0	21.07	24.47	30	-5.53
				1	14	21.09	24.49	30	-5.51
				8	4	20.15	23.55	30	-6.45
				15	0	19.99	23.39	30	-6.61

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Antenna gain (dBi)		3.4							
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)
5	19975	1712.5	QPSK	1	0	23.00	26.40	30	-3.6
				1	24	22.98	26.38	30	-3.62
				12	6	22.18	25.58	30	-4.42
				25	0	22.13	25.53	30	-4.47
	20175	1732.5	QPSK	1	0	23.09	26.49	30	-3.51
				1	24	23.05	26.45	30	-3.55
				12	6	22.16	25.56	30	-4.44
				25	0	22.09	25.49	30	-4.51
	20375	1752.5	QPSK	1	0	22.96	26.36	30	-3.64
				1	24	22.91	26.31	30	-3.69
				12	6	22.07	25.47	30	-4.53
				25	0	22.08	25.48	30	-4.52
5	19975	1712.5	16QAM	1	0	22.45	25.85	30	-4.15
				1	24	22.52	25.92	30	-4.08
				12	6	21.26	24.66	30	-5.34
				25	0	21.21	24.61	30	-5.39
	20175	1732.5	16QAM	1	0	22.34	25.74	30	-4.26
				1	24	22.31	25.71	30	-4.29
				12	6	21.26	24.66	30	-5.34
				25	0	21.13	24.53	30	-5.47
	20375	1752.5	16QAM	1	0	22.16	25.56	30	-4.44
				1	24	22.28	25.68	30	-4.32
				12	6	21.11	24.51	30	-5.49
				25	0	21.11	24.51	30	-5.49
5	19975	1712.5	64QAM	1	0	21.31	24.71	30	-5.29
				1	24	21.29	24.69	30	-5.31
				12	6	20.25	23.65	30	-6.35
				25	0	20.19	23.59	30	-6.41
	20175	1732.5	64QAM	1	0	21.41	24.81	30	-5.19
				1	24	21.36	24.76	30	-5.24
				12	6	20.28	23.68	30	-6.32
				25	0	20.09	23.49	30	-6.51
	20375	1752.5	64QAM	1	0	21.18	24.58	30	-5.42
				1	24	21.13	24.53	30	-5.47
				12	6	20.14	23.54	30	-6.46
				25	0	20.09	23.49	30	-6.51

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Antenna gain (dBi)		3.4							
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	23.12	26.52	30	-3.48
				1	49	23.04	26.44	30	-3.56
				25	12	22.20	25.60	30	-4.4
				50	0	22.16	25.56	30	-4.44
	20175	1732.5	QPSK	1	0	23.07	26.47	30	-3.53
				1	49	23.09	26.49	30	-3.51
				25	12	22.16	25.56	30	-4.44
				50	0	22.12	25.52	30	-4.48
	20350	1750	QPSK	1	0	23.10	26.50	30	-3.5
				1	49	22.98	26.38	30	-3.62
				25	12	22.08	25.48	30	-4.52
				50	0	22.09	25.49	30	-4.51
10	20000	1715	16QAM	1	0	22.56	25.96	30	-4.04
				1	49	22.40	25.80	30	-4.2
				25	12	21.21	24.61	30	-5.39
				50	0	21.24	24.64	30	-5.36
	20175	1732.5	16QAM	1	0	22.50	25.90	30	-4.1
				1	49	22.42	25.82	30	-4.18
				25	12	21.23	24.63	30	-5.37
				50	0	21.17	24.57	30	-5.43
	20350	1750	16QAM	1	0	22.35	25.75	30	-4.25
				1	49	22.22	25.62	30	-4.38
				25	12	21.12	24.52	30	-5.48
				50	0	21.06	24.46	30	-5.54
10	20000	1715	64QAM	1	0	21.18	24.58	30	-5.42
				1	49	21.11	24.51	30	-5.49
				25	12	20.19	23.59	30	-6.41
				50	0	20.23	23.63	30	-6.37
	20175	1732.5	64QAM	1	0	21.27	24.67	30	-5.33
				1	49	21.32	24.72	30	-5.28
				25	12	20.24	23.64	30	-6.36
				50	0	20.15	23.55	30	-6.45
	20350	1750	64QAM	1	0	21.45	24.85	30	-5.15
				1	49	21.30	24.70	30	-5.3
				25	12	20.12	23.52	30	-6.48
				50	0	20.08	23.48	30	-6.52

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Antenna gain (dBi)		3.4							
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	23.15	26.55	30	-3.45
				1	74	23.04	26.44	30	-3.56
				36	18	22.10	25.50	30	-4.5
				75	0	22.11	25.51	30	-4.49
	20175	1732.5	QPSK	1	0	23.01	26.41	30	-3.59
				1	74	23.04	26.44	30	-3.56
				36	18	22.17	25.57	30	-4.43
				75	0	22.11	25.51	30	-4.49
	20325	1747.5	QPSK	1	0	23.15	26.55	30	-3.45
				1	74	22.96	26.36	30	-3.64
				36	18	22.15	25.55	30	-4.45
				75	0	22.23	25.63	30	-4.37
15	20025	1717.5	16QAM	1	0	22.36	25.76	30	-4.24
				1	74	22.22	25.62	30	-4.38
				36	18	21.19	24.59	30	-5.41
				75	0	21.13	24.53	30	-5.47
	20175	1732.5	16QAM	1	0	22.24	25.64	30	-4.36
				1	74	22.27	25.67	30	-4.33
				36	18	21.23	24.63	30	-5.37
				75	0	21.18	24.58	30	-5.42
	20325	1747.5	16QAM	1	0	22.56	25.96	30	-4.04
				1	74	22.29	25.69	30	-4.31
				36	18	21.14	24.54	30	-5.46
				75	0	21.26	24.66	30	-5.34
15	20025	1717.5	64QAM	1	0	21.39	24.79	30	-5.21
				1	74	21.29	24.69	30	-5.31
				36	18	20.14	23.54	30	-6.46
				75	0	20.08	23.48	30	-6.52
	20175	1732.5	64QAM	1	0	21.18	24.58	30	-5.42
				1	74	21.17	24.57	30	-5.43
				36	18	20.20	23.60	30	-6.4
				75	0	20.20	23.60	30	-6.4
	20325	1747.5	64QAM	1	0	21.44	24.84	30	-5.16
				1	74	21.18	24.58	30	-5.42
				36	18	20.19	23.59	30	-6.41
				75	0	20.17	23.57	30	-6.43

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Antenna gain (dBi)		3.4							
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	23.17	26.57	30	-3.43
				1	99	23.11	26.51	30	-3.49
				50	25	22.17	25.57	30	-4.43
				100	0	22.07	25.47	30	-4.53
	20175	1732.5	QPSK	1	0	23.13	26.53	30	-3.47
				1	99	23.06	26.46	30	-3.54
				50	25	22.13	25.53	30	-4.47
				100	0	22.16	25.56	30	-4.44
	20300	1745	QPSK	1	0	23.16	26.56	30	-3.44
				1	99	22.99	26.39	30	-3.61
				50	25	22.24	25.64	30	-4.36
				100	0	22.20	25.60	30	-4.4
20	20050	1720	16QAM	1	0	22.58	25.98	30	-4.02
				1	99	22.44	25.84	30	-4.16
				50	25	21.20	24.60	30	-5.4
				100	0	21.14	24.54	30	-5.46
	20175	1732.5	16QAM	1	0	22.35	25.75	30	-4.25
				1	99	22.42	25.82	30	-4.18
				50	25	21.24	24.64	30	-5.36
				100	0	21.19	24.59	30	-5.41
	20300	1745	16QAM	1	0	22.81	26.21	30	-3.79
				1	99	22.38	25.78	30	-4.22
				50	25	21.27	24.67	30	-5.33
				100	0	21.23	24.63	30	-5.37
20	20050	1720	64QAM	1	0	21.37	24.77	30	-5.23
				1	99	21.27	24.67	30	-5.33
				50	25	20.16	23.56	30	-6.44
				100	0	20.20	23.60	30	-6.4
	20175	1732.5	64QAM	1	0	21.23	24.63	30	-5.37
				1	99	21.28	24.68	30	-5.32
				50	25	20.25	23.65	30	-6.35
				100	0	20.20	23.60	30	-6.4
	20300	1745	64QAM	1	0	21.31	24.71	30	-5.29
				1	99	21.13	24.53	30	-5.47
				50	25	20.25	23.65	30	-6.35
				100	0	20.28	23.68	30	-6.32

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Antenna gain (dBi)		3.2								
LTE Band 5_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	22.62	23.67	25.82	38.45	-14.78
				1	5	22.66	23.71	25.86	38.45	-14.74
				3	2	22.72	23.77	25.92	38.45	-14.68
				6	0	21.71	22.76	24.91	38.45	-15.69
	20525	836.5	QPSK	1	0	22.74	23.79	25.94	38.45	-14.66
				1	5	22.73	23.78	25.93	38.45	-14.67
				3	2	22.80	23.85	26.00	38.45	-14.60
				6	0	21.77	22.82	24.97	38.45	-15.63
	20643	848.3	QPSK	1	0	22.84	23.89	26.04	38.45	-14.56
				1	5	22.80	23.85	26.00	38.45	-14.60
				3	2	22.88	23.93	26.08	38.45	-14.52
				6	0	21.89	22.94	25.09	38.45	-15.51
1.4	20407	824.7	16QAM	1	0	22.02	23.07	25.22	38.45	-15.38
				1	5	22.15	23.20	25.35	38.45	-15.25
				3	2	21.79	22.84	24.99	38.45	-15.61
				6	0	20.78	21.83	23.98	38.45	-16.62
	20525	836.5	16QAM	1	0	21.73	22.78	24.93	38.45	-15.67
				1	5	21.89	22.94	25.09	38.45	-15.51
				3	2	21.84	22.89	25.04	38.45	-15.56
				6	0	20.81	21.86	24.01	38.45	-16.59
	20643	848.3	16QAM	1	0	21.96	23.01	25.16	38.45	-15.44
				1	5	22.04	23.09	25.24	38.45	-15.36
				3	2	21.83	22.88	25.03	38.45	-15.57
				6	0	20.95	22.00	24.15	38.45	-16.45
1.4	20407	824.7	64QAM	1	0	20.90	21.95	24.10	38.45	-16.50
				1	5	20.98	22.03	24.18	38.45	-16.42
				3	2	20.95	22.00	24.15	38.45	-16.45
				6	0	19.75	20.80	22.95	38.45	-17.65
	20525	836.5	64QAM	1	0	21.08	22.13	24.28	38.45	-16.32
				1	5	20.94	21.99	24.14	38.45	-16.46
				3	2	21.01	22.06	24.21	38.45	-16.39
				6	0	19.81	20.86	23.01	38.45	-17.59
	20643	848.3	64QAM	1	0	21.04	22.09	24.24	38.45	-16.36
				1	5	20.97	22.02	24.17	38.45	-16.43
				3	2	21.01	22.06	24.21	38.45	-16.39
				6	0	19.98	21.03	23.18	38.45	-17.42

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Antenna gain (dBi)		3.2								
LTE Band 5_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	22.70	23.75	25.90	38.45	-14.70
				1	14	22.64	23.69	25.84	38.45	-14.76
				8	4	21.80	22.85	25.00	38.45	-15.60
				15	0	21.80	22.85	25.00	38.45	-15.60
	20525	836.5	QPSK	1	0	22.84	23.89	26.04	38.45	-14.56
				1	14	22.79	23.84	25.99	38.45	-14.61
				8	4	21.87	22.92	25.07	38.45	-15.53
				15	0	21.87	22.92	25.07	38.45	-15.53
	20635	847.5	QPSK	1	0	22.76	23.81	25.96	38.45	-14.64
				1	14	22.84	23.89	26.04	38.45	-14.56
				8	4	21.96	23.01	25.16	38.45	-15.44
				15	0	21.98	23.03	25.18	38.45	-15.42
3	20415	825.5	16QAM	1	0	22.06	23.11	25.26	38.45	-15.34
				1	14	22.13	23.18	25.33	38.45	-15.27
				8	4	20.77	21.82	23.97	38.45	-16.63
				15	0	20.87	21.92	24.07	38.45	-16.53
	20525	836.5	16QAM	1	0	21.97	23.02	25.17	38.45	-15.43
				1	14	22.06	23.11	25.26	38.45	-15.34
				8	4	20.94	21.99	24.14	38.45	-16.46
				15	0	20.88	21.93	24.08	38.45	-16.52
	20635	847.5	16QAM	1	0	22.20	23.25	25.40	38.45	-15.20
				1	14	22.07	23.12	25.27	38.45	-15.33
				8	4	21.04	22.09	24.24	38.45	-16.36
				15	0	20.89	21.94	24.09	38.45	-16.51
3	20415	825.5	64QAM	1	0	20.69	21.74	23.89	38.45	-16.71
				1	14	20.66	21.71	23.86	38.45	-16.74
				8	4	19.94	20.99	23.14	38.45	-17.46
				15	0	19.84	20.89	23.04	38.45	-17.56
	20525	836.5	64QAM	1	0	20.87	21.92	24.07	38.45	-16.53
				1	14	20.92	21.97	24.12	38.45	-16.48
				8	4	19.88	20.93	23.08	38.45	-17.52
				15	0	19.82	20.87	23.02	38.45	-17.58
	20635	847.5	64QAM	1	0	21.18	22.23	24.38	38.45	-16.22
				1	14	21.22	22.27	24.42	38.45	-16.18
				8	4	20.04	21.09	23.24	38.45	-17.36
				15	0	19.93	20.98	23.13	38.45	-17.47

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Antenna gain (dBi)		3.2								
LTE Band 5_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	22.76	23.81	25.96	38.45	-14.64
				1	24	22.82	23.87	26.02	38.45	-14.58
				12	6	21.99	23.04	25.19	38.45	-15.41
				25	0	21.93	22.98	25.13	38.45	-15.47
	20525	836.5	QPSK	1	0	22.81	23.86	26.01	38.45	-14.59
				1	24	22.86	23.91	26.06	38.45	-14.54
				12	6	21.93	22.98	25.13	38.45	-15.47
				25	0	21.89	22.94	25.09	38.45	-15.51
	20625	846.5	QPSK	1	0	22.79	23.84	25.99	38.45	-14.61
				1	24	22.84	23.89	26.04	38.45	-14.56
				12	6	21.98	23.03	25.18	38.45	-15.42
				25	0	21.86	22.91	25.06	38.45	-15.54
5	20425	826.5	16QAM	1	0	22.09	23.14	25.29	38.45	-15.31
				1	24	22.01	23.06	25.21	38.45	-15.39
				12	6	20.90	21.95	24.10	38.45	-16.50
				25	0	20.90	21.95	24.10	38.45	-16.50
	20525	836.5	16QAM	1	0	21.94	22.99	25.14	38.45	-15.46
				1	24	21.97	23.02	25.17	38.45	-15.43
				12	6	20.96	22.01	24.16	38.45	-16.44
				25	0	20.85	21.90	24.05	38.45	-16.55
	20625	846.5	16QAM	1	0	22.01	23.06	25.21	38.45	-15.39
				1	24	22.00	23.05	25.20	38.45	-15.40
				12	6	20.95	22.00	24.15	38.45	-16.45
				25	0	20.85	21.90	24.05	38.45	-16.55
5	20425	826.5	64QAM	1	0	21.08	22.13	24.28	38.45	-16.32
				1	24	21.03	22.08	24.23	38.45	-16.37
				12	6	19.92	20.97	23.12	38.45	-17.48
				25	0	19.95	21.00	23.15	38.45	-17.45
	20525	836.5	64QAM	1	0	20.93	21.98	24.13	38.45	-16.47
				1	24	20.96	22.01	24.16	38.45	-16.44
				12	6	19.96	21.01	23.16	38.45	-17.44
				25	0	19.91	20.96	23.11	38.45	-17.49
	20625	846.5	64QAM	1	0	21.04	22.09	24.24	38.45	-16.36
				1	24	21.09	22.14	24.29	38.45	-16.31
				12	6	19.99	21.04	23.19	38.45	-17.41
				25	0	19.90	20.95	23.10	38.45	-17.50

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Antenna gain (dBi)		3.2								
LTE Band 5_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	22.92	23.97	26.12	38.45	-14.48
				1	49	22.87	23.92	26.07	38.45	-14.53
				25	12	21.92	22.97	25.12	38.45	-15.48
				50	0	21.89	22.94	25.09	38.45	-15.51
	20525	836.5	QPSK	1	0	22.78	23.83	25.98	38.45	-14.62
				1	49	22.90	23.95	26.10	38.45	-14.50
				25	12	21.93	22.98	25.13	38.45	-15.47
				50	0	21.91	22.96	25.11	38.45	-15.49
	20600	844	QPSK	1	0	22.85	23.90	26.05	38.45	-14.55
				1	49	22.90	23.95	26.10	38.45	-14.50
				25	12	21.97	23.02	25.17	38.45	-15.43
				50	0	21.94	22.99	25.14	38.45	-15.46
10	20450	829	16QAM	1	0	21.90	22.95	25.10	38.45	-15.50
				1	49	22.08	23.13	25.28	38.45	-15.32
				25	12	20.89	21.94	24.09	38.45	-16.51
				50	0	20.91	21.96	24.11	38.45	-16.49
	20525	836.5	16QAM	1	0	22.08	23.13	25.28	38.45	-15.32
				1	49	22.08	23.13	25.28	38.45	-15.32
				25	12	20.96	22.01	24.16	38.45	-16.44
				50	0	20.92	21.97	24.12	38.45	-16.48
	20600	844	16QAM	1	0	22.36	23.41	25.56	38.45	-15.04
				1	49	22.35	23.40	25.55	38.45	-15.05
				25	12	20.88	21.93	24.08	38.45	-16.52
				50	0	20.90	21.95	24.10	38.45	-16.50
10	20450	829	64QAM	1	0	20.83	21.88	24.03	38.45	-16.57
				1	49	20.99	22.04	24.19	38.45	-16.41
				25	12	19.95	21.00	23.15	38.45	-17.45
				50	0	19.88	20.93	23.08	38.45	-17.52
	20525	836.5	64QAM	1	0	21.13	22.18	24.33	38.45	-16.27
				1	49	21.12	22.17	24.32	38.45	-16.28
				25	12	19.94	20.99	23.14	38.45	-17.46
				50	0	19.86	20.91	23.06	38.45	-17.54
	20600	844	64QAM	1	0	21.07	22.12	24.27	38.45	-16.33
				1	49	21.14	22.19	24.34	38.45	-16.26
				25	12	19.96	21.01	23.16	38.45	-17.44
				50	0	19.89	20.94	23.09	38.45	-17.51

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Antenna gain (dBi)		3.12							
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)
5	20775	2502.5	QPSK	1	0	22.70	25.82	33	-7.18
				1	24	22.67	25.79	33	-7.21
				12	6	21.81	24.93	33	-8.07
				25	0	21.76	24.88	33	-8.12
	21100	2535	QPSK	1	0	22.63	25.75	33	-7.25
				1	24	22.67	25.79	33	-7.21
				12	6	21.77	24.89	33	-8.11
				25	0	21.73	24.85	33	-8.15
	21425	2567.5	QPSK	1	0	22.60	25.72	33	-7.28
				1	24	22.65	25.77	33	-7.23
				12	6	21.74	24.86	33	-8.14
				25	0	21.74	24.86	33	-8.14
5	20775	2502.5	16QAM	1	0	21.81	24.93	33	-8.07
				1	24	21.85	24.97	33	-8.03
				12	6	20.84	23.96	33	-9.04
				25	0	20.77	23.89	33	-9.11
	21100	2535	16QAM	1	0	21.82	24.94	33	-8.06
				1	24	21.80	24.92	33	-8.08
				12	6	20.81	23.93	33	-9.07
				25	0	20.76	23.88	33	-9.12
	21425	2567.5	16QAM	1	0	21.77	24.89	33	-8.11
				1	24	21.81	24.93	33	-8.07
				12	6	20.77	23.89	33	-9.11
				25	0	20.74	23.86	33	-9.14
5	20775	2502.5	64QAM	1	0	20.89	24.01	33	-8.99
				1	24	20.98	24.10	33	-8.9
				12	6	19.90	23.02	33	-9.98
				25	0	19.70	22.82	33	-10.18
	21100	2535	64QAM	1	0	20.77	23.89	33	-9.11
				1	24	20.82	23.94	33	-9.06
				12	6	19.84	22.96	33	-10.04
				25	0	19.77	22.89	33	-10.11
	21425	2567.5	64QAM	1	0	20.93	24.05	33	-8.95
				1	24	20.95	24.07	33	-8.93
				12	6	19.81	22.93	33	-10.07
				25	0	19.76	22.88	33	-10.12

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Antenna gain (dBi)		3.12							
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)
10	20800	2505	QPSK	1	0	22.63	25.75	33	-7.25
				1	49	22.68	25.80	33	-7.2
				25	12	21.77	24.89	33	-8.11
				50	0	21.77	24.89	33	-8.11
	21100	2535	QPSK	1	0	22.70	25.82	33	-7.18
				1	49	22.78	25.90	33	-7.1
				25	12	21.76	24.88	33	-8.12
				50	0	21.76	24.88	33	-8.12
	21400	2565	QPSK	1	0	22.62	25.74	33	-7.26
				1	49	22.67	25.79	33	-7.21
				25	12	21.73	24.85	33	-8.15
				50	0	21.73	24.85	33	-8.15
10	20800	2505	16QAM	1	0	21.91	25.03	33	-7.97
				1	49	21.94	25.06	33	-7.94
				25	12	20.82	23.94	33	-9.06
				50	0	20.78	23.90	33	-9.1
	21100	2535	16QAM	1	0	21.96	25.08	33	-7.92
				1	49	22.11	25.23	33	-7.77
				25	12	20.76	23.88	33	-9.12
				50	0	20.77	23.89	33	-9.11
	21400	2565	16QAM	1	0	22.04	25.16	33	-7.84
				1	49	22.09	25.21	33	-7.79
				25	12	20.73	23.85	33	-9.15
				50	0	20.71	23.83	33	-9.17
10	20800	2505	64QAM	1	0	20.83	23.95	33	-9.05
				1	49	20.92	24.04	33	-8.96
				25	12	19.80	22.92	33	-10.08
				50	0	19.77	22.89	33	-10.11
	21100	2535	64QAM	1	0	21.01	24.13	33	-8.87
				1	49	21.04	24.16	33	-8.84
				25	12	19.82	22.94	33	-10.06
				50	0	19.76	22.88	33	-10.12
	21400	2565	64QAM	1	0	20.73	23.85	33	-9.15
				1	49	20.90	24.02	33	-8.98
				25	12	19.71	22.83	33	-10.17
				50	0	19.76	22.88	33	-10.12

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Antenna gain (dBi)		3.12							
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)
15	20825	2507.5	QPSK	1	0	22.59	25.71	33	-7.29
				1	74	22.69	25.81	33	-7.19
				36	18	21.80	24.92	33	-8.08
				75	0	21.75	24.87	33	-8.13
	21100	2535	QPSK	1	0	22.65	25.77	33	-7.23
				1	74	22.64	25.76	33	-7.24
				36	18	21.82	24.94	33	-8.06
				75	0	21.77	24.89	33	-8.11
	21375	2562.5	QPSK	1	0	22.62	25.74	33	-7.26
				1	74	22.68	25.80	33	-7.2
				36	18	21.80	24.92	33	-8.08
				75	0	21.77	24.89	33	-8.11
15	20825	2507.5	16QAM	1	0	21.78	24.90	33	-8.1
				1	74	21.77	24.89	33	-8.11
				36	18	20.81	23.93	33	-9.07
				75	0	20.74	23.86	33	-9.14
	21100	2535	16QAM	1	0	21.94	25.06	33	-7.94
				1	74	22.04	25.16	33	-7.84
				36	18	20.83	23.95	33	-9.05
				75	0	20.77	23.89	33	-9.11
	21375	2562.5	16QAM	1	0	21.98	25.10	33	-7.9
				1	74	22.06	25.18	33	-7.82
				36	18	20.75	23.87	33	-9.13
				75	0	20.75	23.87	33	-9.13
15	20825	2507.5	64QAM	1	0	20.80	23.92	33	-9.08
				1	74	20.77	23.89	33	-9.11
				36	18	19.84	22.96	33	-10.04
				75	0	19.81	22.93	33	-10.07
	21100	2535	64QAM	1	0	20.96	24.08	33	-8.92
				1	74	21.08	24.20	33	-8.8
				36	18	19.82	22.94	33	-10.06
				75	0	19.80	22.92	33	-10.08
	21375	2562.5	64QAM	1	0	20.59	23.71	33	-9.29
				1	74	20.73	23.85	33	-9.15
				36	18	19.86	22.98	33	-10.02
				75	0	19.76	22.88	33	-10.12

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Antenna gain (dBi)		3.12							
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)
20	20850	2510	QPSK	1	0	22.78	25.90	33	-7.1
				1	99	22.70	25.82	33	-7.18
				50	25	21.78	24.90	33	-8.1
				100	0	21.78	24.90	33	-8.1
	21100	2535	QPSK	1	0	22.56	25.68	33	-7.32
				1	99	22.75	25.87	33	-7.13
				50	25	21.79	24.91	33	-8.09
				100	0	21.74	24.86	33	-8.14
	21350	2560	QPSK	1	0	22.60	25.72	33	-7.28
				1	99	22.63	25.75	33	-7.25
				50	25	21.78	24.90	33	-8.1
				100	0	21.73	24.85	33	-8.15
20	20850	2510	QPSK	1	0	21.86	24.98	33	-8.02
				1	99	21.97	25.09	33	-7.91
				50	25	20.81	23.93	33	-9.07
				100	0	20.78	23.90	33	-9.1
	21100	2535	QPSK	1	0	22.04	25.16	33	-7.84
				1	99	22.11	25.23	33	-7.77
				50	25	20.80	23.92	33	-9.08
				100	0	20.78	23.90	33	-9.1
	21350	2560	QPSK	1	0	21.89	25.01	33	-7.99
				1	99	21.88	25.00	33	-8
				50	25	20.73	23.85	33	-9.15
				100	0	20.68	23.80	33	-9.2
20	20850	2510	QPSK	1	0	20.71	23.83	33	-9.17
				1	99	20.75	23.87	33	-9.13
				50	25	19.79	22.91	33	-10.09
				100	0	19.78	22.90	33	-10.1
	21100	2535	QPSK	1	0	20.77	23.89	33	-9.11
				1	99	20.92	24.04	33	-8.96
				50	25	19.81	22.93	33	-10.07
				100	0	19.79	22.91	33	-10.09
	21350	2560	QPSK	1	0	20.83	23.95	33	-9.05
				1	99	20.93	24.05	33	-8.95
				50	25	19.76	22.88	33	-10.12
				100	0	19.72	22.84	33	-10.16

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Antenna gain (dBi)		2.51								
LTE Band 12_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.35	23.71	25.86	34.77	-11.06
				1	5	23.38	23.74	25.89	34.77	-11.03
				3	2	23.44	23.80	25.95	34.77	-10.97
				6	0	22.47	22.83	24.98	34.77	-11.94
	23095	707.5	QPSK	1	0	23.46	23.82	25.97	34.77	-10.95
				1	5	23.47	23.83	25.98	34.77	-10.94
				3	2	23.43	23.79	25.94	34.77	-10.98
				6	0	22.56	22.92	25.07	34.77	-11.85
	23173	715.5	QPSK	1	0	23.49	23.85	26.00	34.77	-10.92
				1	5	23.46	23.82	25.97	34.77	-10.95
				3	2	23.47	23.83	25.98	34.77	-10.94
				6	0	22.52	22.88	25.03	34.77	-11.89
1.4	23017	699.7	16QAM	1	0	22.67	23.03	25.18	34.77	-11.74
				1	5	22.73	23.09	25.24	34.77	-11.68
				3	2	22.44	22.80	24.95	34.77	-11.97
				6	0	21.48	21.84	23.99	34.77	-12.93
	23095	707.5	16QAM	1	0	22.73	23.09	25.24	34.77	-11.68
				1	5	22.71	23.07	25.22	34.77	-11.70
				3	2	22.60	22.96	25.11	34.77	-11.81
				6	0	21.63	21.99	24.14	34.77	-12.78
	23173	715.5	16QAM	1	0	22.79	23.15	25.30	34.77	-11.62
				1	5	22.87	23.23	25.38	34.77	-11.54
				3	2	22.55	22.91	25.06	34.77	-11.86
				6	0	21.69	22.05	24.20	34.77	-12.72
1.4	23017	699.7	64QAM	1	0	21.41	21.77	23.92	34.77	-13.00
				1	5	21.28	21.64	23.79	34.77	-13.13
				3	2	21.62	21.98	24.13	34.77	-12.79
				6	0	20.43	20.79	22.94	34.77	-13.98
	23095	707.5	64QAM	1	0	21.60	21.96	24.11	34.77	-12.81
				1	5	21.66	22.02	24.17	34.77	-12.75
				3	2	21.61	21.97	24.12	34.77	-12.80
				6	0	20.59	20.95	23.10	34.77	-13.82
	23173	715.5	64QAM	1	0	21.68	22.04	24.19	34.77	-12.73
				1	5	21.81	22.17	24.32	34.77	-12.60
				3	2	21.72	22.08	24.23	34.77	-12.69
				6	0	20.51	20.87	23.02	34.77	-13.90

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Antenna gain (dBi)		2.51								
LTE Band 12_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	23.39	23.75	25.90	34.77	-11.02
				1	14	23.48	23.84	25.99	34.77	-10.93
				8	4	22.52	22.88	25.03	34.77	-11.89
				15	0	22.63	22.99	25.14	34.77	-11.78
	23095	707.5	QPSK	1	0	23.49	23.85	26.00	34.77	-10.92
				1	14	23.43	23.79	25.94	34.77	-10.98
				8	4	22.66	23.02	25.17	34.77	-11.75
				15	0	22.61	22.97	25.12	34.77	-11.80
	23165	714.5	QPSK	1	0	23.41	23.77	25.92	34.77	-11.00
				1	14	23.45	23.81	25.96	34.77	-10.96
				8	4	22.64	23.00	25.15	34.77	-11.77
				15	0	22.62	22.98	25.13	34.77	-11.79
3	23025	700.5	16QAM	1	0	22.95	23.31	25.46	34.77	-11.46
				1	14	22.84	23.20	25.35	34.77	-11.57
				8	4	21.59	21.95	24.10	34.77	-12.82
				15	0	21.69	22.05	24.20	34.77	-12.72
	23095	707.5	16QAM	1	0	22.97	23.33	25.48	34.77	-11.44
				1	14	23.05	23.41	25.56	34.77	-11.36
				8	4	21.66	22.02	24.17	34.77	-12.75
				15	0	21.63	21.99	24.14	34.77	-12.78
	23165	714.5	16QAM	1	0	22.76	23.12	25.27	34.77	-11.65
				1	14	22.64	23.00	25.15	34.77	-11.77
				8	4	21.71	22.07	24.22	34.77	-12.70
				15	0	21.62	21.98	24.13	34.77	-12.79
3	23025	700.5	64QAM	1	0	21.85	22.21	24.36	34.77	-12.56
				1	14	21.75	22.11	24.26	34.77	-12.66
				8	4	20.67	21.03	23.18	34.77	-13.74
				15	0	20.62	20.98	23.13	34.77	-13.79
	23095	707.5	64QAM	1	0	21.68	22.04	24.19	34.77	-12.73
				1	14	21.69	22.05	24.20	34.77	-12.72
				8	4	20.70	21.06	23.21	34.77	-13.71
				15	0	20.65	21.01	23.16	34.77	-13.76
	23165	714.5	64QAM	1	0	21.81	22.17	24.32	34.77	-12.60
				1	14	21.78	22.14	24.29	34.77	-12.63
				8	4	20.64	21.00	23.15	34.77	-13.77
				15	0	20.62	20.98	23.13	34.77	-13.79

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Antenna gain (dBi)		2.51								
LTE Band 12_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.48	23.84	25.99	34.77	-10.93
				1	24	23.39	23.75	25.90	34.77	-11.02
				12	6	22.61	22.97	25.12	34.77	-11.80
				25	0	22.66	23.02	25.17	34.77	-11.75
	23095	707.5	QPSK	1	0	23.45	23.81	25.96	34.77	-10.96
				1	24	23.43	23.79	25.94	34.77	-10.98
				12	6	22.70	23.06	25.21	34.77	-11.71
				25	0	22.65	23.01	25.16	34.77	-11.76
	23155	713.5	QPSK	1	0	23.49	23.85	26.00	34.77	-10.92
				1	24	23.42	23.78	25.93	34.77	-10.99
				12	6	22.63	22.99	25.14	34.77	-11.78
				25	0	22.57	22.93	25.08	34.77	-11.84
5	23035	701.5	16QAM	1	0	22.85	23.21	25.36	34.77	-11.56
				1	24	22.86	23.22	25.37	34.77	-11.55
				12	6	21.67	22.03	24.18	34.77	-12.74
				25	0	21.65	22.01	24.16	34.77	-12.76
	23095	707.5	16QAM	1	0	22.70	23.06	25.21	34.77	-11.71
				1	24	22.79	23.15	25.30	34.77	-11.62
				12	6	21.70	22.06	24.21	34.77	-12.71
				25	0	21.70	22.06	24.21	34.77	-12.71
	23155	713.5	16QAM	1	0	22.95	23.31	25.46	34.77	-11.46
				1	24	22.88	23.24	25.39	34.77	-11.53
				12	6	21.67	22.03	24.18	34.77	-12.74
				25	0	21.53	21.89	24.04	34.77	-12.88
5	23035	701.5	64QAM	1	0	21.62	21.98	24.13	34.77	-12.79
				1	24	21.63	21.99	24.14	34.77	-12.78
				12	6	20.70	21.06	23.21	34.77	-13.71
				25	0	20.62	20.98	23.13	34.77	-13.79
	23095	707.5	64QAM	1	0	21.64	22.00	24.15	34.77	-12.77
				1	24	21.71	22.07	24.22	34.77	-12.70
				12	6	20.75	21.11	23.26	34.77	-13.66
				25	0	20.68	21.04	23.19	34.77	-13.73
	23155	713.5	64QAM	1	0	21.73	22.09	24.24	34.77	-12.68
				1	24	21.74	22.10	24.25	34.77	-12.67
				12	6	20.69	21.05	23.20	34.77	-13.72
				25	0	20.57	20.93	23.08	34.77	-13.84

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Antenna gain (dBi)		2.51								
LTE Band 12_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.48	23.84	25.99	34.77	-10.93
				1	49	23.43	23.79	25.94	34.77	-10.98
				25	12	22.76	23.12	25.27	34.77	-11.65
				50	0	22.72	23.08	25.23	34.77	-11.69
	23095	707.5	QPSK	1	0	23.46	23.82	25.97	34.77	-10.95
				1	49	23.39	23.75	25.90	34.77	-11.02
				25	12	22.71	23.07	25.22	34.77	-11.70
				50	0	22.65	23.01	25.16	34.77	-11.76
	23130	711	QPSK	1	0	23.37	23.73	25.88	34.77	-11.04
				1	49	23.31	23.67	25.82	34.77	-11.10
				25	12	22.65	23.01	25.16	34.77	-11.76
				50	0	22.61	22.97	25.12	34.77	-11.80
10	23060	704	16QAM	1	0	22.46	22.82	24.97	34.77	-11.95
				1	49	22.64	23.00	25.15	34.77	-11.77
				25	12	21.74	22.10	24.25	34.77	-12.67
				50	0	21.73	22.09	24.24	34.77	-12.68
	23095	707.5	16QAM	1	0	22.58	22.94	25.09	34.77	-11.83
				1	49	22.71	23.07	25.22	34.77	-11.70
				25	12	21.72	22.08	24.23	34.77	-12.69
				50	0	21.63	21.99	24.14	34.77	-12.78
	23130	711	16QAM	1	0	23.09	23.45	25.60	34.77	-11.32
				1	49	23.02	23.38	25.53	34.77	-11.39
				25	12	21.64	22.00	24.15	34.77	-12.77
				50	0	21.58	21.94	24.09	34.77	-12.83
10	23060	704	64QAM	1	0	21.74	22.10	24.25	34.77	-12.67
				1	49	21.91	22.27	24.42	34.77	-12.50
				25	12	20.68	21.04	23.19	34.77	-13.73
				50	0	20.73	21.09	23.24	34.77	-13.68
	23095	707.5	64QAM	1	0	21.71	22.07	24.22	34.77	-12.70
				1	49	21.83	22.19	24.34	34.77	-12.58
				25	12	20.70	21.06	23.21	34.77	-13.71
				50	0	20.68	21.04	23.19	34.77	-13.73
	23130	711	64QAM	1	0	21.86	22.22	24.37	34.77	-12.55
				1	49	21.76	22.12	24.27	34.77	-12.65
				25	12	20.67	21.03	23.18	34.77	-13.74
				50	0	20.65	21.01	23.16	34.77	-13.76

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Antenna gain (dBi)		2.51								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	22.64	23.00	25.15	34.77	-11.77
				1	24	22.66	23.02	25.17	34.77	-11.75
				12	6	21.89	22.25	24.40	34.77	-12.52
				25	0	21.90	22.26	24.41	34.77	-12.51
	23230	782	QPSK	1	0	22.81	23.17	25.32	34.77	-11.60
				1	24	22.82	23.18	25.33	34.77	-11.59
				12	6	21.98	22.34	24.49	34.77	-12.43
				25	0	21.94	22.30	24.45	34.77	-12.47
	23255	784.5	QPSK	1	0	22.82	23.18	25.33	34.77	-11.59
				1	24	22.76	23.12	25.27	34.77	-11.65
				12	6	21.92	22.28	24.43	34.77	-12.49
				25	0	21.94	22.30	24.45	34.77	-12.47
5	23205	779.5	16QAM	1	0	21.75	22.11	24.26	34.77	-12.66
				1	24	21.98	22.34	24.49	34.77	-12.43
				12	6	20.86	21.22	23.37	34.77	-13.55
				25	0	20.87	21.23	23.38	34.77	-13.54
	23230	782	16QAM	1	0	22.04	22.40	24.55	34.77	-12.37
				1	24	22.15	22.51	24.66	34.77	-12.26
				12	6	21.01	21.37	23.52	34.77	-13.40
				25	0	20.95	21.31	23.46	34.77	-13.46
	23255	784.5	16QAM	1	0	22.24	22.60	24.75	34.77	-12.17
				1	24	22.18	22.54	24.69	34.77	-12.23
				12	6	20.91	21.27	23.42	34.77	-13.50
				25	0	20.94	21.30	23.45	34.77	-13.47
5	23205	779.5	64QAM	1	0	20.78	21.14	23.29	34.77	-13.63
				1	24	21.06	21.42	23.57	34.77	-13.35
				12	6	19.99	20.35	22.50	34.77	-14.42
				25	0	19.82	20.18	22.33	34.77	-14.59
	23230	782	64QAM	1	0	21.05	21.41	23.56	34.77	-13.36
				1	24	21.03	21.39	23.54	34.77	-13.38
				12	6	20.00	20.36	22.51	34.77	-14.41
				25	0	19.94	20.30	22.45	34.77	-14.47
	23255	784.5	64QAM	1	0	20.86	21.22	23.37	34.77	-13.55
				1	24	20.78	21.14	23.29	34.77	-13.63
				12	6	20.02	20.38	22.53	34.77	-14.39
				25	0	19.95	20.31	22.46	34.77	-14.46

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Antenna gain (dBi)		2.51								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	22.91	23.27	25.42	34.77	-11.50
				1	49	22.80	23.16	25.31	34.77	-11.61
				25	12	21.98	22.34	24.49	34.77	-12.43
				50	0	21.96	22.32	24.47	34.77	-12.45
10	23230	782	16QAM	1	0	21.76	22.12	24.27	34.77	-12.65
				1	49	21.86	22.22	24.37	34.77	-12.55
				25	12	20.96	21.32	23.47	34.77	-13.45
				50	0	20.99	21.35	23.50	34.77	-13.42
10	23230	782	64QAM	1	0	20.94	21.30	23.45	34.77	-13.47
				1	49	21.10	21.46	23.61	34.77	-13.31
				25	12	19.98	20.34	22.49	34.77	-14.43
				50	0	19.95	20.31	22.46	34.77	-14.46

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Antenna gain (dBi)		2.51								
LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	22.64	23.00	25.15	34.77	-11.77
				1	24	22.65	23.01	25.16	34.77	-11.76
				12	6	21.87	22.23	24.38	34.77	-12.54
				25	0	21.84	22.20	24.35	34.77	-12.57
	23330	793	QPSK	1	0	22.77	23.13	25.28	34.77	-11.64
				1	24	22.62	22.98	25.13	34.77	-11.79
				12	6	21.84	22.20	24.35	34.77	-12.57
				25	0	21.81	22.17	24.32	34.77	-12.60
	23355	795.5	QPSK	1	0	22.69	23.05	25.20	34.77	-11.72
				1	24	22.73	23.09	25.24	34.77	-11.68
				12	6	21.85	22.21	24.36	34.77	-12.56
				25	0	21.78	22.14	24.29	34.77	-12.63
5	23305	790.5	16QAM	1	0	21.82	22.18	24.33	34.77	-12.59
				1	24	21.91	22.27	24.42	34.77	-12.50
				12	6	20.91	21.27	23.42	34.77	-13.50
				25	0	20.86	21.22	23.37	34.77	-13.55
	23330	793	16QAM	1	0	22.00	22.36	24.51	34.77	-12.41
				1	24	21.95	22.31	24.46	34.77	-12.46
				12	6	20.89	21.25	23.40	34.77	-13.52
				25	0	20.76	21.12	23.27	34.77	-13.65
	23355	795.5	16QAM	1	0	22.21	22.57	24.72	34.77	-12.20
				1	24	22.15	22.51	24.66	34.77	-12.26
				12	6	20.82	21.18	23.33	34.77	-13.59
				25	0	20.79	21.15	23.30	34.77	-13.62
5	23305	790.5	64QAM	1	0	20.88	21.24	23.39	34.77	-13.53
				1	24	20.80	21.16	23.31	34.77	-13.61
				12	6	19.91	20.27	22.42	34.77	-14.50
				25	0	19.94	20.30	22.45	34.77	-14.47
	23330	793	64QAM	1	0	21.01	21.37	23.52	34.77	-13.40
				1	24	21.10	21.46	23.61	34.77	-13.31
				12	6	19.90	20.26	22.41	34.77	-14.51
				25	0	19.89	20.25	22.40	34.77	-14.52
	23355	795.5	64QAM	1	0	20.70	21.06	23.21	34.77	-13.71
				1	24	20.82	21.18	23.33	34.77	-13.59
				12	6	19.94	20.30	22.45	34.77	-14.47
				25	0	19.82	20.18	22.33	34.77	-14.59

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Antenna gain (dBi)		2.51								
LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	22.80	23.16	25.31	34.77	-11.61
				1	49	22.77	23.13	25.28	34.77	-11.64
				25	12	21.86	22.22	24.37	34.77	-12.55
				50	0	21.79	22.15	24.30	34.77	-12.62
10	23330	793	16QAM	1	0	21.84	22.20	24.35	34.77	-12.57
				1	49	22.04	22.40	24.55	34.77	-12.37
				25	12	20.92	21.28	23.43	34.77	-13.49
				50	0	20.85	21.21	23.36	34.77	-13.56
10	23330	793	64QAM	1	0	20.92	21.28	23.43	34.77	-13.49
				1	49	21.04	21.40	23.55	34.77	-13.37
				25	12	19.80	20.16	22.31	34.77	-14.61
				50	0	19.84	20.20	22.35	34.77	-14.57

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Antenna gain (dBi)		2.51								
LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.81	23.17	25.32	34.77	-11.60
				1	24	22.93	23.29	25.44	34.77	-11.48
				12	6	22.02	22.38	24.53	34.77	-12.39
				25	0	22.03	22.39	24.54	34.77	-12.38
	23790	710	QPSK	1	0	22.91	23.27	25.42	34.77	-11.50
				1	24	22.94	23.30	25.45	34.77	-11.47
				12	6	22.00	22.36	24.51	34.77	-12.41
				25	0	21.92	22.28	24.43	34.77	-12.49
	23825	713.5	QPSK	1	0	22.89	23.25	25.40	34.77	-11.52
				1	24	22.88	23.24	25.39	34.77	-11.53
				12	6	22.05	22.41	24.56	34.77	-12.36
				25	0	21.91	22.27	24.42	34.77	-12.50
5	23755	706.5	16QAM	1	0	22.01	22.37	24.52	34.77	-12.40
				1	24	22.22	22.58	24.73	34.77	-12.19
				12	6	21.06	21.42	23.57	34.77	-13.35
				25	0	20.96	21.32	23.47	34.77	-13.45
	23790	710	16QAM	1	0	22.28	22.64	24.79	34.77	-12.13
				1	24	22.46	22.82	24.97	34.77	-11.95
				12	6	21.01	21.37	23.52	34.77	-13.40
				25	0	21.01	21.37	23.52	34.77	-13.40
	23825	713.5	16QAM	1	0	22.21	22.57	24.72	34.77	-12.20
				1	24	22.16	22.52	24.67	34.77	-12.25
				12	6	21.06	21.42	23.57	34.77	-13.35
				25	0	20.95	21.31	23.46	34.77	-13.46
5	23755	706.5	64QAM	1	0	21.08	21.44	23.59	34.77	-13.33
				1	24	21.13	21.49	23.64	34.77	-13.28
				12	6	20.11	20.47	22.62	34.77	-14.30
				25	0	20.04	20.40	22.55	34.77	-14.37
	23790	710	64QAM	1	0	20.93	21.29	23.44	34.77	-13.48
				1	24	20.97	21.33	23.48	34.77	-13.44
				12	6	20.07	20.43	22.58	34.77	-14.34
				25	0	20.01	20.37	22.52	34.77	-14.40
	23825	713.5	64QAM	1	0	21.00	21.36	23.51	34.77	-13.41
				1	24	21.03	21.39	23.54	34.77	-13.38
				12	6	20.02	20.38	22.53	34.77	-14.39
				25	0	19.88	20.24	22.39	34.77	-14.53

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Antenna gain (dBi)		2.51								
LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.00	23.36	25.51	34.77	-11.41
				1	49	22.96	23.32	25.47	34.77	-11.45
				25	12	22.02	22.38	24.53	34.77	-12.39
				50	0	21.97	22.33	24.48	34.77	-12.44
	23790	710	QPSK	1	0	22.72	23.08	25.23	34.77	-11.69
				1	49	22.74	23.10	25.25	34.77	-11.67
				25	12	22.02	22.38	24.53	34.77	-12.39
				50	0	22.00	22.36	24.51	34.77	-12.41
	23800	711	QPSK	1	0	22.79	23.15	25.30	34.77	-11.62
				1	49	22.86	23.22	25.37	34.77	-11.55
				25	12	22.00	22.36	24.51	34.77	-12.41
				50	0	21.99	22.35	24.50	34.77	-12.42
10	23780	709	16QAM	1	0	22.16	22.52	24.67	34.77	-12.25
				1	49	22.35	22.71	24.86	34.77	-12.06
				25	12	21.01	21.37	23.52	34.77	-13.40
				50	0	20.96	21.32	23.47	34.77	-13.45
	23790	710	16QAM	1	0	21.99	22.35	24.50	34.77	-12.42
				1	49	22.18	22.54	24.69	34.77	-12.23
				25	12	21.07	21.43	23.58	34.77	-13.34
				50	0	20.99	21.35	23.50	34.77	-13.42
	23800	711	16QAM	1	0	21.94	22.30	24.45	34.77	-12.47
				1	49	22.09	22.45	24.60	34.77	-12.32
				25	12	20.99	21.35	23.50	34.77	-13.42
				50	0	20.92	21.28	23.43	34.77	-13.49
10	23780	709	64QAM	1	0	21.08	21.44	23.59	34.77	-13.33
				1	49	21.08	21.44	23.59	34.77	-13.33
				25	12	20.03	20.39	22.54	34.77	-14.38
				50	0	19.98	20.34	22.49	34.77	-14.43
	23790	710	64QAM	1	0	21.07	21.43	23.58	34.77	-13.34
				1	49	21.22	21.58	23.73	34.77	-13.19
				25	12	19.97	20.33	22.48	34.77	-14.44
				50	0	20.00	20.36	22.51	34.77	-14.41
	23800	711	64QAM	1	0	21.04	21.40	23.55	34.77	-13.37
				1	49	21.01	21.37	23.52	34.77	-13.40
				25	12	20.00	20.36	22.51	34.77	-14.41
				50	0	19.99	20.35	22.50	34.77	-14.42

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Antenna gain (dBi)		3.05							
LTE Band 25_Uplink frequency 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)
1.4	26047	1850.7	QPSK	1	0	22.93	25.98	33	-7.02
				1	5	22.93	25.98	33	-7.02
				3	2	22.94	25.99	33	-7.01
				6	0	22.04	25.09	33	-7.91
	26365	1882.5	QPSK	1	0	22.73	25.78	33	-7.22
				1	5	22.71	25.76	33	-7.24
				3	2	22.84	25.89	33	-7.11
				6	0	21.90	24.95	33	-8.05
	26683	1914.3	QPSK	1	0	22.77	25.82	33	-7.18
				1	5	22.81	25.86	33	-7.14
				3	2	22.91	25.96	33	-7.04
				6	0	21.94	24.99	33	-8.01
1.4	26047	1850.7	16QAM	1	0	22.33	25.38	33	-7.62
				1	5	22.30	25.35	33	-7.65
				3	2	22.10	25.15	33	-7.85
				6	0	21.15	24.20	33	-8.8
	26365	1882.5	16QAM	1	0	22.17	25.22	33	-7.78
				1	5	22.07	25.12	33	-7.88
				3	2	21.90	24.95	33	-8.05
				6	0	20.95	24.00	33	-9
	26683	1914.3	16QAM	1	0	21.89	24.94	33	-8.06
				1	5	21.95	25.00	33	-8
				3	2	21.99	25.04	33	-7.96
				6	0	21.02	24.07	33	-8.93
1.4	26047	1850.7	64QAM	1	0	21.11	24.16	33	-8.84
				1	5	21.35	24.40	33	-8.6
				3	2	21.28	24.33	33	-8.67
				6	0	20.00	23.05	33	-9.95
	26365	1882.5	64QAM	1	0	21.04	24.09	33	-8.91
				1	5	21.05	24.10	33	-8.9
				3	2	21.13	24.18	33	-8.82
				6	0	19.92	22.97	33	-10.03
	26683	1914.3	64QAM	1	0	21.15	24.20	33	-8.8
				1	5	20.89	23.94	33	-9.06
				3	2	21.11	24.16	33	-8.84
				6	0	19.88	22.93	33	-10.07

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Antenna gain (dBi)		3.05							
LTE Band 25_Uplink frequency 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)
3	26055	1851.5	QPSK	1	0	22.94	25.99	33	-7.01
				1	14	22.95	26.00	33	-7
				8	4	22.15	25.20	33	-7.8
				15	0	22.13	25.18	33	-7.82
	26365	1882.5	QPSK	1	0	22.81	25.86	33	-7.14
				1	14	22.82	25.87	33	-7.13
				8	4	21.95	25.00	33	-8
				15	0	22.01	25.06	33	-7.94
	26675	1913.5	QPSK	1	0	22.91	25.96	33	-7.04
				1	14	22.83	25.88	33	-7.12
				8	4	21.97	25.02	33	-7.98
				15	0	21.98	25.03	33	-7.97
3	26055	1851.5	16QAM	1	0	22.21	25.26	33	-7.74
				1	14	22.14	25.19	33	-7.81
				8	4	21.22	24.27	33	-8.73
				15	0	21.15	24.20	33	-8.8
	26365	1882.5	16QAM	1	0	22.25	25.30	33	-7.7
				1	14	22.25	25.30	33	-7.7
				8	4	21.10	24.15	33	-8.85
				15	0	21.03	24.08	33	-8.92
	26675	1913.5	16QAM	1	0	22.10	25.15	33	-7.85
				1	14	22.08	25.13	33	-7.87
				8	4	21.03	24.08	33	-8.92
				15	0	21.02	24.07	33	-8.93
3	26055	1851.5	64QAM	1	0	21.32	24.37	33	-8.63
				1	14	21.22	24.27	33	-8.73
				8	4	20.24	23.29	33	-9.71
				15	0	20.08	23.13	33	-9.87
	26365	1882.5	64QAM	1	0	21.07	24.12	33	-8.88
				1	14	20.91	23.96	33	-9.04
				8	4	20.13	23.18	33	-9.82
				15	0	20.01	23.06	33	-9.94
	26675	1913.5	64QAM	1	0	20.91	23.96	33	-9.04
				1	14	21.01	24.06	33	-8.94
				8	4	20.06	23.11	33	-9.89
				15	0	20.03	23.08	33	-9.92

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Antenna gain (dBi)		3.05							
LTE Band 25_Uplink frequency 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)
5	26065	1852.5	QPSK	1	0	23.01	26.06	33	-6.94
				1	24	22.95	26.00	33	-7
				12	6	22.10	25.15	33	-7.85
				25	0	22.10	25.15	33	-7.85
	26365	1882.5	QPSK	1	0	22.78	25.83	33	-7.17
				1	24	22.74	25.79	33	-7.21
				12	6	22.00	25.05	33	-7.95
				25	0	21.96	25.01	33	-7.99
	26665	1912.5	QPSK	1	0	22.88	25.93	33	-7.07
				1	24	22.79	25.84	33	-7.16
				12	6	21.99	25.04	33	-7.96
				25	0	21.98	25.03	33	-7.97
5	26065	1852.5	16QAM	1	0	22.31	25.36	33	-7.64
				1	24	22.31	25.36	33	-7.64
				12	6	21.16	24.21	33	-8.79
				25	0	21.08	24.13	33	-8.87
	26365	1882.5	16QAM	1	0	22.29	25.34	33	-7.66
				1	24	22.12	25.17	33	-7.83
				12	6	21.08	24.13	33	-8.87
				25	0	21.01	24.06	33	-8.94
	26665	1912.5	16QAM	1	0	21.88	24.93	33	-8.07
				1	24	21.83	24.88	33	-8.12
				12	6	21.03	24.08	33	-8.92
				25	0	20.96	24.01	33	-8.99
5	26065	1852.5	64QAM	1	0	21.33	24.38	33	-8.62
				1	24	21.18	24.23	33	-8.77
				12	6	20.18	23.23	33	-9.77
				25	0	20.10	23.15	33	-9.85
	26365	1882.5	64QAM	1	0	21.11	24.16	33	-8.84
				1	24	21.13	24.18	33	-8.82
				12	6	20.15	23.20	33	-9.8
				25	0	20.00	23.05	33	-9.95
	26665	1912.5	64QAM	1	0	21.12	24.17	33	-8.83
				1	24	20.93	23.98	33	-9.02
				12	6	20.05	23.10	33	-9.9
				25	0	19.99	23.04	33	-9.96

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Antenna gain (dBi)		3.05							
LTE Band 25_Uplink frequency 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)
10	26090	1855	QPSK	1	0	22.98	26.03	33	-6.97
				1	49	22.98	26.03	33	-6.97
				25	12	22.02	25.07	33	-7.93
				50	0	21.99	25.04	33	-7.96
	26365	1882.5	QPSK	1	0	22.94	25.99	33	-7.01
				1	49	22.93	25.98	33	-7.02
				25	12	22.01	25.06	33	-7.94
				50	0	22.01	25.06	33	-7.94
	26640	1910	QPSK	1	0	22.80	25.85	33	-7.15
				1	49	22.82	25.87	33	-7.13
				25	12	21.94	24.99	33	-8.01
				50	0	21.83	24.88	33	-8.12
10	26090	1855	16QAM	1	0	22.17	25.22	33	-7.78
				1	49	22.41	25.46	33	-7.54
				25	12	21.06	24.11	33	-8.89
				50	0	20.99	24.04	33	-8.96
	26365	1882.5	16QAM	1	0	22.34	25.39	33	-7.61
				1	49	22.43	25.48	33	-7.52
				25	12	21.07	24.12	33	-8.88
				50	0	21.01	24.06	33	-8.94
	26640	1910	16QAM	1	0	21.90	24.95	33	-8.05
				1	49	22.05	25.10	33	-7.9
				25	12	20.87	23.92	33	-9.08
				50	0	20.89	23.94	33	-9.06
10	26090	1855	64QAM	1	0	21.33	24.38	33	-8.62
				1	49	21.33	24.38	33	-8.62
				25	12	20.08	23.13	33	-9.87
				50	0	20.17	23.22	33	-9.78
	26365	1882.5	64QAM	1	0	20.93	23.98	33	-9.02
				1	49	21.10	24.15	33	-8.85
				25	12	20.07	23.12	33	-9.88
				50	0	20.05	23.10	33	-9.9
	26640	1910	64QAM	1	0	20.98	24.03	33	-8.97
				1	49	20.89	23.94	33	-9.06
				25	12	19.86	22.91	33	-10.09
				50	0	19.87	22.92	33	-10.08

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Antenna gain (dBi)		3.05							
LTE Band 25_Uplink frequency 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)
15	26115	1857.5	QPSK	1	0	22.94	25.99	33	-7.01
				1	74	22.89	25.94	33	-7.06
				36	18	22.13	25.18	33	-7.82
				75	0	21.95	25.00	33	-8
	26365	1882.5	QPSK	1	0	23.01	26.06	33	-6.94
				1	74	22.89	25.94	33	-7.06
				36	18	22.02	25.07	33	-7.93
				75	0	21.96	25.01	33	-7.99
	26615	1907.5	QPSK	1	0	22.66	25.71	33	-7.29
				1	74	22.78	25.83	33	-7.17
				36	18	21.89	24.94	33	-8.06
				75	0	21.84	24.89	33	-8.11
15	26115	1857.5	16QAM	1	0	22.45	25.50	33	-7.5
				1	74	22.41	25.46	33	-7.54
				36	18	21.17	24.22	33	-8.78
				75	0	21.01	24.06	33	-8.94
	26365	1882.5	16QAM	1	0	22.21	25.26	33	-7.74
				1	74	22.05	25.10	33	-7.9
				36	18	21.00	24.05	33	-8.95
				75	0	21.00	24.05	33	-8.95
	26615	1907.5	16QAM	1	0	21.81	24.86	33	-8.14
				1	74	21.95	25.00	33	-8
				36	18	20.91	23.96	33	-9.04
				75	0	20.83	23.88	33	-9.12
15	26115	1857.5	64QAM	1	0	21.25	24.30	33	-8.7
				1	74	21.13	24.18	33	-8.82
				36	18	20.17	23.22	33	-9.78
				75	0	20.02	23.07	33	-9.93
	26365	1882.5	64QAM	1	0	21.30	24.35	33	-8.65
				1	74	21.15	24.20	33	-8.8
				36	18	20.09	23.14	33	-9.86
				75	0	19.92	22.97	33	-10.03
	26615	1907.5	64QAM	1	0	20.99	24.04	33	-8.96
				1	74	21.04	24.09	33	-8.91
				36	18	19.91	22.96	33	-10.04
				75	0	19.86	22.91	33	-10.09

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Antenna gain (dBi)		3.05							
LTE Band 25_Uplink frequency 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)
20	26140	1860	QPSK	1	0	23.03	26.08	33	-6.92
				1	99	22.96	26.01	33	-6.99
				50	25	22.03	25.08	33	-7.92
				100	0	21.99	25.04	33	-7.96
	26365	1882.5	QPSK	1	0	22.95	26.00	33	-7
				1	99	22.93	25.98	33	-7.02
				50	25	21.99	25.04	33	-7.96
				100	0	21.93	24.98	33	-8.02
	26590	1905	QPSK	1	0	22.81	25.86	33	-7.14
				1	99	22.85	25.90	33	-7.1
				50	25	21.97	25.02	33	-7.98
				100	0	21.94	24.99	33	-8.01
20	26140	1860	16QAM	1	0	22.09	25.14	33	-7.86
				1	99	22.15	25.20	33	-7.8
				50	25	21.11	24.16	33	-8.84
				100	0	20.99	24.04	33	-8.96
	26365	1882.5	16QAM	1	0	22.20	25.25	33	-7.75
				1	99	22.31	25.36	33	-7.64
				50	25	21.01	24.06	33	-8.94
				100	0	20.95	24.00	33	-9
	26590	1905	16QAM	1	0	22.24	25.29	33	-7.71
				1	99	22.26	25.31	33	-7.69
				50	25	20.99	24.04	33	-8.96
				100	0	20.95	24.00	33	-9
20	26140	1860	64QAM	1	0	21.22	24.27	33	-8.73
				1	99	21.12	24.17	33	-8.83
				50	25	20.06	23.11	33	-9.89
				100	0	19.97	23.02	33	-9.98
	26365	1882.5	64QAM	1	0	21.32	24.37	33	-8.63
				1	99	21.32	24.37	33	-8.63
				50	25	19.99	23.04	33	-9.96
				100	0	19.99	23.04	33	-9.96
	26590	1905	64QAM	1	0	21.32	24.37	33	-8.63
				1	99	21.32	24.37	33	-8.63
				50	25	19.99	23.04	33	-9.96
				100	0	19.99	23.04	33	-9.96

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Antenna gain (dBi)		3.2								
LTE Band 26_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	22.81	23.86	26.01	38.45	-14.59
				1	5	22.85	23.90	26.05	38.45	-14.55
				3	2	22.90	23.95	26.10	38.45	-14.50
				6	0	21.93	22.98	25.13	38.45	-15.47
	26915	836.5	QPSK	1	0	22.83	23.88	26.03	38.45	-14.57
				1	5	22.80	23.85	26.00	38.45	-14.60
				3	2	22.87	23.92	26.07	38.45	-14.53
				6	0	21.85	22.90	25.05	38.45	-15.55
	27033	848.3	QPSK	1	0	22.87	23.92	26.07	38.45	-14.53
				1	5	22.84	23.89	26.04	38.45	-14.56
				3	2	22.96	24.01	26.16	38.45	-14.44
				6	0	21.94	22.99	25.14	38.45	-15.46
1.4	26797	824.7	16QAM	1	0	21.86	22.91	25.06	38.45	-15.54
				1	5	21.88	22.93	25.08	38.45	-15.52
				3	2	21.93	22.98	25.13	38.45	-15.47
				6	0	20.90	21.95	24.10	38.45	-16.50
	26915	836.5	16QAM	1	0	21.88	22.93	25.08	38.45	-15.52
				1	5	21.87	22.92	25.07	38.45	-15.53
				3	2	21.90	22.95	25.10	38.45	-15.50
				6	0	20.95	22.00	24.15	38.45	-16.45
	27033	848.3	16QAM	1	0	22.29	23.34	25.49	38.45	-15.11
				1	5	22.20	23.25	25.40	38.45	-15.20
				3	2	21.98	23.03	25.18	38.45	-15.42
				6	0	21.11	22.16	24.31	38.45	-16.29
1.4	26797	824.7	64QAM	1	0	21.10	22.15	24.30	38.45	-16.30
				1	5	21.15	22.20	24.35	38.45	-16.25
				3	2	21.05	22.10	24.25	38.45	-16.35
				6	0	19.92	20.97	23.12	38.45	-17.48
	26915	836.5	64QAM	1	0	21.04	22.09	24.24	38.45	-16.36
				1	5	21.06	22.11	24.26	38.45	-16.34
				3	2	21.01	22.06	24.21	38.45	-16.39
				6	0	19.96	21.01	23.16	38.45	-17.44
	27033	848.3	64QAM	1	0	21.17	22.22	24.37	38.45	-16.23
				1	5	21.07	22.12	24.27	38.45	-16.33
				3	2	21.12	22.17	24.32	38.45	-16.28
				6	0	19.94	20.99	23.14	38.45	-17.46

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Antenna gain (dBi)		3.2								
LTE Band 26_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	22.92	23.97	26.12	38.45	-14.48
				1	14	22.85	23.90	26.05	38.45	-14.55
				8	4	21.95	23.00	25.15	38.45	-15.45
				15	0	22.03	23.08	25.23	38.45	-15.37
	26915	836.5	QPSK	1	0	22.90	23.95	26.10	38.45	-14.50
				1	14	22.90	23.95	26.10	38.45	-14.50
				8	4	21.93	22.98	25.13	38.45	-15.47
				15	0	21.93	22.98	25.13	38.45	-15.47
	27025	847.5	QPSK	1	0	22.95	24.00	26.15	38.45	-14.45
				1	14	22.87	23.92	26.07	38.45	-14.53
				8	4	22.02	23.07	25.22	38.45	-15.38
				15	0	22.02	23.07	25.22	38.45	-15.38
3	26805	825.5	16QAM	1	0	22.15	23.20	25.35	38.45	-15.25
				1	14	22.06	23.11	25.26	38.45	-15.34
				8	4	20.97	22.02	24.17	38.45	-16.43
				15	0	21.02	22.07	24.22	38.45	-16.38
	26915	836.5	16QAM	1	0	22.34	23.39	25.54	38.45	-15.06
				1	14	22.26	23.31	25.46	38.45	-15.14
				8	4	21.04	22.09	24.24	38.45	-16.36
				15	0	20.89	21.94	24.09	38.45	-16.51
	27025	847.5	16QAM	1	0	22.19	23.24	25.39	38.45	-15.21
				1	14	22.24	23.29	25.44	38.45	-15.16
				8	4	21.15	22.20	24.35	38.45	-16.25
				15	0	21.10	22.15	24.30	38.45	-16.30
3	26805	825.5	64QAM	1	0	20.96	22.01	24.16	38.45	-16.44
				1	14	20.97	22.02	24.17	38.45	-16.43
				8	4	20.07	21.12	23.27	38.45	-17.33
				15	0	19.96	21.01	23.16	38.45	-17.44
	26915	836.5	64QAM	1	0	21.18	22.23	24.38	38.45	-16.22
				1	14	21.13	22.18	24.33	38.45	-16.27
				8	4	19.98	21.03	23.18	38.45	-17.42
				15	0	19.92	20.97	23.12	38.45	-17.48
	27025	847.5	64QAM	1	0	21.13	22.18	24.33	38.45	-16.27
				1	14	21.12	22.17	24.32	38.45	-16.28
				8	4	20.11	21.16	23.31	38.45	-17.29
				15	0	19.95	21.00	23.15	38.45	-17.45

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Antenna gain (dBi)		3.2								
LTE Band 26_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	22.86	23.91	26.06	38.45	-14.54
				1	24	22.82	23.87	26.02	38.45	-14.58
				12	6	21.98	23.03	25.18	38.45	-15.42
				25	0	21.98	23.03	25.18	38.45	-15.42
	26915	836.5	QPSK	1	0	22.85	23.90	26.05	38.45	-14.55
				1	24	22.81	23.86	26.01	38.45	-14.59
				12	6	21.97	23.02	25.17	38.45	-15.43
				25	0	21.94	22.99	25.14	38.45	-15.46
	27015	846.5	QPSK	1	0	22.91	23.96	26.11	38.45	-14.49
				1	24	22.90	23.95	26.10	38.45	-14.50
				12	6	22.04	23.09	25.24	38.45	-15.36
				25	0	22.02	23.07	25.22	38.45	-15.38
5	26815	826.5	16QAM	1	0	22.00	23.05	25.20	38.45	-15.40
				1	24	22.00	23.05	25.20	38.45	-15.40
				12	6	20.99	22.04	24.19	38.45	-16.41
				25	0	20.94	21.99	24.14	38.45	-16.46
	26915	836.5	16QAM	1	0	22.04	23.09	25.24	38.45	-15.36
				1	24	22.09	23.14	25.29	38.45	-15.31
				12	6	20.98	22.03	24.18	38.45	-16.42
				25	0	20.94	21.99	24.14	38.45	-16.46
	27015	846.5	16QAM	1	0	22.35	23.40	25.55	38.45	-15.05
				1	24	22.30	23.35	25.50	38.45	-15.10
				12	6	21.08	22.13	24.28	38.45	-16.32
				25	0	21.05	22.10	24.25	38.45	-16.35
5	26815	826.5	64QAM	1	0	21.00	22.05	24.20	38.45	-16.40
				1	24	20.94	21.99	24.14	38.45	-16.46
				12	6	19.99	21.04	23.19	38.45	-17.41
				25	0	19.93	20.98	23.13	38.45	-17.47
	26915	836.5	64QAM	1	0	21.20	22.25	24.40	38.45	-16.20
				1	24	21.07	22.12	24.27	38.45	-16.33
				12	6	20.01	21.06	23.21	38.45	-17.39
				25	0	19.92	20.97	23.12	38.45	-17.48
	27015	846.5	64QAM	1	0	20.92	21.97	24.12	38.45	-16.48
				1	24	20.79	21.84	23.99	38.45	-16.61
				12	6	20.08	21.13	23.28	38.45	-17.32
				25	0	20.04	21.09	23.24	38.45	-17.36

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Antenna gain (dBi)		3.2								
LTE Band 26_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	22.93	23.98	26.13	38.45	-14.47
				1	49	22.80	23.85	26.00	38.45	-14.60
				25	12	21.97	23.02	25.17	38.45	-15.43
				50	0	21.97	23.02	25.17	38.45	-15.43
	26915	836.5	QPSK	1	0	22.78	23.83	25.98	38.45	-14.62
				1	49	22.90	23.95	26.10	38.45	-14.50
				25	12	22.00	23.05	25.20	38.45	-15.40
				50	0	21.88	22.93	25.08	38.45	-15.52
	26990	844	QPSK	1	0	22.90	23.95	26.10	38.45	-14.50
				1	49	22.95	24.00	26.15	38.45	-14.45
				25	12	21.99	23.04	25.19	38.45	-15.41
				50	0	21.96	23.01	25.16	38.45	-15.44
10	26840	829	16QAM	1	0	22.09	23.14	25.29	38.45	-15.31
				1	49	22.04	23.09	25.24	38.45	-15.36
				25	12	20.91	21.96	24.11	38.45	-16.49
				50	0	20.95	22.00	24.15	38.45	-16.45
	26915	836.5	16QAM	1	0	22.12	23.17	25.32	38.45	-15.28
				1	49	22.24	23.29	25.44	38.45	-15.16
				25	12	20.98	22.03	24.18	38.45	-16.42
				50	0	20.86	21.91	24.06	38.45	-16.54
	26990	844	16QAM	1	0	22.22	23.27	25.42	38.45	-15.18
				1	49	22.15	23.20	25.35	38.45	-15.25
				25	12	20.95	22.00	24.15	38.45	-16.45
				50	0	20.97	22.02	24.17	38.45	-16.43
10	26840	829	64QAM	1	0	21.20	22.25	24.40	38.45	-16.20
				1	49	21.03	22.08	24.23	38.45	-16.37
				25	12	19.94	20.99	23.14	38.45	-17.46
				50	0	19.91	20.96	23.11	38.45	-17.49
	26915	836.5	64QAM	1	0	20.99	22.04	24.19	38.45	-16.41
				1	49	21.07	22.12	24.27	38.45	-16.33
				25	12	19.99	21.04	23.19	38.45	-17.41
				50	0	19.86	20.91	23.06	38.45	-17.54
	26990	844	64QAM	1	0	21.17	22.22	24.37	38.45	-16.23
				1	49	21.15	22.20	24.35	38.45	-16.25
				25	12	19.95	21.00	23.15	38.45	-17.45
				50	0	19.95	21.00	23.15	38.45	-17.45

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Antenna gain (dBi)		3.2								
LTE Band 26_Uplink frequency 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)	ERP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	22.96	24.01	26.16	38.45	-14.44
				1	74	22.88	23.93	26.08	38.45	-14.52
				36	18	21.93	22.98	25.13	38.45	-15.47
				75	0	21.94	22.99	25.14	38.45	-15.46
	26915	836.5	QPSK	1	0	22.82	23.87	26.02	38.45	-14.58
				1	74	22.89	23.94	26.09	38.45	-14.51
				36	18	21.89	22.94	25.09	38.45	-15.51
				75	0	21.89	22.94	25.09	38.45	-15.51
	26965	841.5	QPSK	1	0	22.90	23.95	26.10	38.45	-14.50
				1	74	22.95	24.00	26.15	38.45	-14.45
				36	18	21.91	22.96	25.11	38.45	-15.49
				75	0	21.89	22.94	25.09	38.45	-15.51
15	26865	831.5	16QAM	1	0	22.13	23.18	25.33	38.45	-15.27
				1	74	22.13	23.18	25.33	38.45	-15.27
				36	18	20.91	21.96	24.11	38.45	-16.49
				75	0	20.92	21.97	24.12	38.45	-16.48
	26915	836.5	16QAM	1	0	22.20	23.25	25.40	38.45	-15.20
				1	74	22.24	23.29	25.44	38.45	-15.16
				36	18	20.91	21.96	24.11	38.45	-16.49
				75	0	20.86	21.91	24.06	38.45	-16.54
	26965	841.5	16QAM	1	0	22.13	23.18	25.33	38.45	-15.27
				1	74	22.18	23.23	25.38	38.45	-15.22
				36	18	20.94	21.99	24.14	38.45	-16.46
				75	0	20.87	21.92	24.07	38.45	-16.53
15	26865	831.5	64QAM	1	0	21.17	22.22	24.37	38.45	-16.23
				1	74	21.11	22.16	24.31	38.45	-16.29
				36	18	20.00	21.05	23.20	38.45	-17.40
				75	0	19.95	21.00	23.15	38.45	-17.45
	26915	836.5	64QAM	1	0	20.81	21.86	24.01	38.45	-16.59
				1	74	20.82	21.87	24.02	38.45	-16.58
				36	18	19.98	21.03	23.18	38.45	-17.42
				75	0	19.88	20.93	23.08	38.45	-17.52
	26965	841.5	64QAM	1	0	21.07	22.12	24.27	38.45	-16.33
				1	74	21.05	22.10	24.25	38.45	-16.35
				36	18	19.87	20.92	23.07	38.45	-17.53
				75	0	19.84	20.89	23.04	38.45	-17.56

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Antenna gain (dBi)		2.51								
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	22.86	23.22	25.37	50	-26.78
				1	5	22.78	23.14	25.29	50	-26.86
				3	2	22.90	23.26	25.41	50	-26.74
				6	0	21.93	22.29	24.44	50	-27.71
	26740	819	QPSK	1	0	22.83	23.19	25.34	50	-26.81
				1	5	22.83	23.19	25.34	50	-26.81
				3	2	22.88	23.24	25.39	50	-26.76
				6	0	21.91	22.27	24.42	50	-27.73
	26783	823.3	QPSK	1	0	22.75	23.11	25.26	50	-26.89
				1	5	22.80	23.16	25.31	50	-26.84
				3	2	22.81	23.17	25.32	50	-26.83
				6	0	21.94	22.30	24.45	50	-27.70
1.4	26697	814.7	16QAM	1	0	22.00	22.36	24.51	50	-27.64
				1	5	22.02	22.38	24.53	50	-27.62
				3	2	21.91	22.27	24.42	50	-27.73
				6	0	21.06	21.42	23.57	50	-28.58
	26740	819	16QAM	1	0	22.03	22.39	24.54	50	-27.61
				1	5	22.00	22.36	24.51	50	-27.64
				3	2	21.93	22.29	24.44	50	-27.71
				6	0	20.97	21.33	23.48	50	-28.67
	26783	823.3	16QAM	1	0	21.88	22.24	24.39	50	-27.76
				1	5	21.89	22.25	24.40	50	-27.75
				3	2	21.85	22.21	24.36	50	-27.79
				6	0	20.96	21.32	23.47	50	-28.68
1.4	26697	814.7	64QAM	1	0	20.98	21.34	23.49	50	-28.66
				1	5	20.96	21.32	23.47	50	-28.68
				3	2	21.19	21.55	23.70	50	-28.45
				6	0	19.99	20.35	22.50	50	-29.65
	26740	819	64QAM	1	0	21.13	21.49	23.64	50	-28.51
				1	5	21.01	21.37	23.52	50	-28.63
				3	2	21.03	21.39	23.54	50	-28.61
				6	0	19.94	20.30	22.45	50	-29.70
	26783	823.3	64QAM	1	0	20.92	21.28	23.43	50	-28.72
				1	5	20.91	21.27	23.42	50	-28.73
				3	2	20.90	21.26	23.41	50	-28.74
				6	0	19.96	20.32	22.47	50	-29.68

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Antenna gain (dBi)		2.51								
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	22.83	23.19	25.34	50	-26.81
				1	14	22.87	23.23	25.38	50	-26.77
				8	4	22.00	22.36	24.51	50	-27.64
				15	0	22.03	22.39	24.54	50	-27.61
	26740	819	QPSK	1	0	22.87	23.23	25.38	50	-26.77
				1	14	22.84	23.20	25.35	50	-26.80
				8	4	21.94	22.30	24.45	50	-27.70
				15	0	21.96	22.32	24.47	50	-27.68
	26775	822.5	QPSK	1	0	22.84	23.20	25.35	50	-26.80
				1	14	22.90	23.26	25.41	50	-26.74
				8	4	21.93	22.29	24.44	50	-27.71
				15	0	22.03	22.39	24.54	50	-27.61
3	26705	815.5	16QAM	1	0	22.22	22.58	24.73	50	-27.42
				1	14	22.27	22.63	24.78	50	-27.37
				8	4	21.02	21.38	23.53	50	-28.62
				15	0	21.04	21.40	23.55	50	-28.60
	26740	819	16QAM	1	0	22.32	22.68	24.83	50	-27.32
				1	14	22.28	22.64	24.79	50	-27.36
				8	4	20.99	21.35	23.50	50	-28.65
				15	0	21.01	21.37	23.52	50	-28.63
	26775	822.5	16QAM	1	0	22.16	22.52	24.67	50	-27.48
				1	14	22.18	22.54	24.69	50	-27.46
				8	4	20.90	21.26	23.41	50	-28.74
				15	0	21.06	21.42	23.57	50	-28.58
3	26705	815.5	64QAM	1	0	21.11	21.47	23.62	50	-28.53
				1	14	21.08	21.44	23.59	50	-28.56
				8	4	19.98	20.34	22.49	50	-29.66
				15	0	20.07	20.43	22.58	50	-29.57
	26740	819	64QAM	1	0	21.04	21.40	23.55	50	-28.60
				1	14	20.98	21.34	23.49	50	-28.66
				8	4	19.96	20.32	22.47	50	-29.68
				15	0	20.05	20.41	22.56	50	-29.59
	26775	822.5	64QAM	1	0	21.03	21.39	23.54	50	-28.61
				1	14	21.03	21.39	23.54	50	-28.61
				8	4	20.00	20.36	22.51	50	-29.64
				15	0	19.99	20.35	22.50	50	-29.65

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Antenna gain (dBi)		2.51								
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	22.87	23.23	25.38	50	-26.77
				1	24	22.90	23.26	25.41	50	-26.74
				12	6	22.03	22.39	24.54	50	-27.61
				25	0	21.99	22.35	24.50	50	-27.65
	26740	819	QPSK	1	0	22.88	23.24	25.39	50	-26.76
				1	24	22.81	23.17	25.32	50	-26.83
				12	6	21.99	22.35	24.50	50	-27.65
				25	0	21.96	22.32	24.47	50	-27.68
	26765	821.5	QPSK	1	0	22.90	23.26	25.41	50	-26.74
				1	24	22.84	23.20	25.35	50	-26.80
				12	6	21.95	22.31	24.46	50	-27.69
				25	0	21.93	22.29	24.44	50	-27.71
5	26715	816.5	16QAM	1	0	22.26	22.62	24.77	50	-27.38
				1	24	22.34	22.70	24.85	50	-27.30
				12	6	21.05	21.41	23.56	50	-28.59
				25	0	20.98	21.34	23.49	50	-28.66
	26740	819	16QAM	1	0	21.92	22.28	24.43	50	-27.72
				1	24	21.98	22.34	24.49	50	-27.66
				12	6	21.00	21.36	23.51	50	-28.64
				25	0	20.96	21.32	23.47	50	-28.68
	26765	821.5	16QAM	1	0	22.00	22.36	24.51	50	-27.64
				1	24	21.86	22.22	24.37	50	-27.78
				12	6	20.97	21.33	23.48	50	-28.67
				25	0	20.93	21.29	23.44	50	-28.71
5	26715	816.5	64QAM	1	0	21.16	21.52	23.67	50	-28.48
				1	24	21.13	21.49	23.64	50	-28.51
				12	6	20.13	20.49	22.64	50	-29.51
				25	0	20.04	20.40	22.55	50	-29.60
	26740	819	64QAM	1	0	21.23	21.59	23.74	50	-28.41
				1	24	21.09	21.45	23.60	50	-28.55
				12	6	20.11	20.47	22.62	50	-29.53
				25	0	19.92	20.28	22.43	50	-29.72
	26765	821.5	64QAM	1	0	21.07	21.43	23.58	50	-28.57
				1	24	21.07	21.43	23.58	50	-28.57
				12	6	20.04	20.40	22.55	50	-29.60
				25	0	19.94	20.30	22.45	50	-29.70

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Antenna gain (dBi)		2.51								
Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	22.95	23.31	25.46	50	-26.69
				1	49	22.83	23.19	25.34	50	-26.81
				25	12	21.98	22.34	24.49	50	-27.66
				50	0	21.99	22.35	24.50	50	-27.65
10	26740	819	16QAM	1	0	22.10	22.46	24.61	50	-27.54
				1	49	22.12	22.48	24.63	50	-27.52
				25	12	20.95	21.31	23.46	50	-28.69
				50	0	20.96	21.32	23.47	50	-28.68
10	26740	819	64QAM	1	0	21.18	21.54	23.69	50	-28.46
				1	49	21.11	21.47	23.62	50	-28.53
				25	12	19.98	20.34	22.49	50	-29.66
				50	0	19.93	20.29	22.44	50	-29.71

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Antenna gain (dBi)		3.12							
LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
5	27685	2307.5	QPSK	1	0	20.71	23.83	24	-0.17
				1	24	20.69	23.81	24	-0.19
				12	6	19.72	22.84	24	-1.16
				25	0	19.67	22.79	24	-1.21
	27710	2310	QPSK	1	0	20.70	23.82	24	-0.18
				1	24	20.62	23.74	24	-0.26
				12	6	19.74	22.86	24	-1.14
				25	0	19.74	22.86	24	-1.14
	27735	2312.5	QPSK	1	0	20.69	23.81	24	-0.19
				1	24	20.67	23.79	24	-0.21
				12	6	19.75	22.87	24	-1.13
				25	0	19.78	22.90	24	-1.1
5	27685	2307.5	16QAM	1	0	20.11	23.23	24	-0.77
				1	24	20.13	23.25	24	-0.75
				12	6	18.75	21.87	24	-2.13
				25	0	18.75	21.87	24	-2.13
	27710	2310	16QAM	1	0	20.08	23.20	24	-0.8
				1	24	19.92	23.04	24	-0.96
				12	6	18.69	21.81	24	-2.19
				25	0	18.77	21.89	24	-2.11
	27735	2312.5	16QAM	1	0	20.02	23.14	24	-0.86
				1	24	20.09	23.21	24	-0.79
				12	6	18.76	21.88	24	-2.12
				25	0	18.74	21.86	24	-2.14
5	27685	2307.5	64QAM	1	0	18.76	21.88	24	-2.12
				1	24	18.85	21.97	24	-2.03
				12	6	17.80	20.92	24	-3.08
				25	0	17.78	20.90	24	-3.1
	27710	2310	64QAM	1	0	18.91	22.03	24	-1.97
				1	24	18.95	22.07	24	-1.93
				12	6	17.78	20.90	24	-3.1
				25	0	17.77	20.89	24	-3.11
	27735	2312.5	64QAM	1	0	18.89	22.01	24	-1.99
				1	24	18.97	22.09	24	-1.91
				12	6	17.77	20.89	24	-3.11
				25	0	17.78	20.90	24	-3.1

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Antenna gain (dBi)		3.12							
LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
10	27710	2310	QPSK	1	0	20.71	23.83	24.00	-0.17
				1	49	20.69	23.81	24.00	-0.19
				25	12	19.77	22.89	24.00	-1.11
				50	0	19.77	22.89	24.00	-1.11
10	27710	2310	16QAM	1	0	20.26	23.38	24.00	-0.62
				1	49	20.17	23.29	24.00	-0.71
				25	12	18.76	21.88	24.00	-2.12
				50	0	18.76	21.88	24.00	-2.12
10	27710	2310	64QAM	1	0	19.01	22.13	24.00	-1.87
				1	49	18.90	22.02	24.00	-1.98
				25	12	17.84	20.96	24.00	-3.04
				50	0	17.82	20.94	24.00	-3.06

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Antenna gain (dBi)		3.12							
LTE Band 38_Uplink frequency 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)
5	37775	2572.5	QPSK	1	0	22.90	26.02	33	-6.98
				1	24	22.93	26.05	33	-6.95
				12	6	22.00	25.12	33	-7.88
				25	0	21.92	25.04	33	-7.96
	38000	2595	QPSK	1	0	22.80	25.92	33	-7.08
				1	24	22.76	25.88	33	-7.12
				12	6	21.83	24.95	33	-8.05
				25	0	21.84	24.96	33	-8.04
	38225	2617.5	QPSK	1	0	22.77	25.89	33	-7.11
				1	24	22.78	25.90	33	-7.1
				12	6	21.77	24.89	33	-8.11
				25	0	21.79	24.91	33	-8.09
5	37775	2572.5	16QAM	1	0	22.08	25.20	33	-7.8
				1	24	22.10	25.22	33	-7.78
				12	6	20.97	24.09	33	-8.91
				25	0	20.99	24.11	33	-8.89
	38000	2595	16QAM	1	0	21.97	25.09	33	-7.91
				1	24	21.95	25.07	33	-7.93
				12	6	20.83	23.95	33	-9.05
				25	0	20.83	23.95	33	-9.05
	38225	2617.5	16QAM	1	0	21.90	25.02	33	-7.98
				1	24	21.94	25.06	33	-7.94
				12	6	20.84	23.96	33	-9.04
				25	0	20.79	23.91	33	-9.09
5	37775	2572.5	64QAM	1	0	20.96	24.08	33	-8.92
				1	24	21.01	24.13	33	-8.87
				12	6	20.00	23.12	33	-9.88
				25	0	20.01	23.13	33	-9.87
	38000	2595	64QAM	1	0	20.80	23.92	33	-9.08
				1	24	20.83	23.95	33	-9.05
				12	6	19.87	22.99	33	-10.01
				25	0	19.83	22.95	33	-10.05
	38225	2617.5	64QAM	1	0	20.81	23.93	33	-9.07
				1	24	20.81	23.93	33	-9.07
				12	6	19.85	22.97	33	-10.03
				25	0	19.83	22.95	33	-10.05

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Antenna gain (dBi)		3.12							
LTE Band 38_Uplink frequency 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)
10	37800	2575	QPSK	1	0	22.90	26.02	33	-6.98
				1	49	22.86	25.98	33	-7.02
				25	12	21.91	25.03	33	-7.97
				50	0	21.91	25.03	33	-7.97
	38000	2595	QPSK	1	0	22.79	25.91	33	-7.09
				1	49	22.77	25.89	33	-7.11
				25	12	21.84	24.96	33	-8.04
				50	0	21.80	24.92	33	-8.08
	38200	2615	QPSK	1	0	22.81	25.93	33	-7.07
				1	49	22.76	25.88	33	-7.12
				25	12	21.83	24.95	33	-8.05
				50	0	21.79	24.91	33	-8.09
10	37800	2575	16QAM	1	0	22.12	25.24	33	-7.76
				1	49	22.04	25.16	33	-7.84
				25	12	20.96	24.08	33	-8.92
				50	0	20.92	24.04	33	-8.96
	38000	2595	16QAM	1	0	21.99	25.11	33	-7.89
				1	49	21.94	25.06	33	-7.94
				25	12	20.91	24.03	33	-8.97
				50	0	20.81	23.93	33	-9.07
	38200	2615	16QAM	1	0	21.96	25.08	33	-7.92
				1	49	21.97	25.09	33	-7.91
				25	12	20.89	24.01	33	-8.99
				50	0	20.83	23.95	33	-9.05
10	37800	2575	64QAM	1	0	20.95	24.07	33	-8.93
				1	49	20.93	24.05	33	-8.95
				25	12	20.01	23.13	33	-9.87
				50	0	19.90	23.02	33	-9.98
	38000	2595	64QAM	1	0	20.83	23.95	33	-9.05
				1	49	20.81	23.93	33	-9.07
				25	12	19.89	23.01	33	-9.99
				50	0	19.83	22.95	33	-10.05
	38200	2615	64QAM	1	0	20.83	23.95	33	-9.05
				1	49	20.82	23.94	33	-9.06
				25	12	19.84	22.96	33	-10.04
				50	0	19.81	22.93	33	-10.07

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Antenna gain (dBi)		3.12							
LTE Band 38_Uplink frequency 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)
15	37825	2577.5	QPSK	1	0	22.84	25.96	33	-7.04
				1	74	22.86	25.98	33	-7.02
				36	19	21.91	25.03	33	-7.97
				75	0	21.94	25.06	33	-7.94
	38000	2595	QPSK	1	0	22.79	25.91	33	-7.09
				1	74	22.79	25.91	33	-7.09
				36	19	21.83	24.95	33	-8.05
				75	0	21.76	24.88	33	-8.12
	38175	2612.5	QPSK	1	0	22.72	25.84	33	-7.16
				1	74	22.80	25.92	33	-7.08
				36	19	21.84	24.96	33	-8.04
				75	0	21.76	24.88	33	-8.12
15	37825	2577.5	16QAM	1	0	22.05	25.17	33	-7.83
				1	74	22.01	25.13	33	-7.87
				36	19	20.90	24.02	33	-8.98
				75	0	20.92	24.04	33	-8.96
	38000	2595	16QAM	1	0	22.00	25.12	33	-7.88
				1	74	21.93	25.05	33	-7.95
				36	19	20.81	23.93	33	-9.07
				75	0	20.80	23.92	33	-9.08
	38175	2612.5	16QAM	1	0	21.94	25.06	33	-7.94
				1	74	22.00	25.12	33	-7.88
				36	19	20.80	23.92	33	-9.08
				75	0	20.74	23.86	33	-9.14
15	37825	2577.5	64QAM	1	0	20.91	24.03	33	-8.97
				1	74	20.90	24.02	33	-8.98
				36	19	19.95	23.07	33	-9.93
				75	0	19.94	23.06	33	-9.94
	38000	2595	64QAM	1	0	20.83	23.95	33	-9.05
				1	74	20.79	23.91	33	-9.09
				36	19	19.83	22.95	33	-10.05
				75	0	19.81	22.93	33	-10.07
	38175	2612.5	64QAM	1	0	20.72	23.84	33	-9.16
				1	74	20.87	23.99	33	-9.01
				36	19	19.82	22.94	33	-10.06
				75	0	19.71	22.83	33	-10.17

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Antenna gain (dBi)		3.12							
LTE Band 38_Uplink frequency 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)
20	37850	2580	QPSK	1	0	22.96	26.08	33	-6.92
				1	99	22.80	25.92	33	-7.08
				50	25	21.87	24.99	33	-8.01
				100	0	21.87	24.99	33	-8.01
	38000	2595	QPSK	1	0	22.75	25.87	33	-7.13
				1	99	22.70	25.82	33	-7.18
				50	25	21.80	24.92	33	-8.08
				100	0	21.80	24.92	33	-8.08
	38150	2610	QPSK	1	0	22.72	25.84	33	-7.16
				1	99	22.78	25.90	33	-7.1
				50	25	21.79	24.91	33	-8.09
				100	0	21.75	24.87	33	-8.13
20	37850	2580	16QAM	1	0	22.03	25.15	33	-7.85
				1	99	21.95	25.07	33	-7.93
				50	25	20.90	24.02	33	-8.98
				100	0	20.85	23.97	33	-9.03
	38000	2595	16QAM	1	0	21.96	25.08	33	-7.92
				1	99	21.90	25.02	33	-7.98
				50	25	20.79	23.91	33	-9.09
				100	0	20.83	23.95	33	-9.05
	38150	2610	16QAM	1	0	21.88	25.00	33	-8
				1	99	21.98	25.10	33	-7.9
				50	25	20.77	23.89	33	-9.11
				100	0	20.76	23.88	33	-9.12
20	37850	2580	64QAM	1	0	20.89	24.01	33	-8.99
				1	99	20.82	23.94	33	-9.06
				50	25	19.90	23.02	33	-9.98
				100	0	19.86	22.98	33	-10.02
	38000	2595	64QAM	1	0	20.83	23.95	33	-9.05
				1	99	20.73	23.85	33	-9.15
				50	25	19.79	22.91	33	-10.09
				100	0	19.80	22.92	33	-10.08
	38150	2610	64QAM	1	0	20.76	23.88	33	-9.12
				1	99	20.82	23.94	33	-9.06
				50	25	19.76	22.88	33	-10.12
				100	0	19.72	22.84	33	-10.16

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	22.94	26.06	33	-6.94
				1	24	23.03	26.15	33	-6.85
				12	6	21.89	25.01	33	-7.99
				25	0	21.99	25.11	33	-7.89
	40620	2593	QPSK	1	0	22.92	26.04	33	-6.96
				1	24	22.93	26.05	33	-6.95
				12	6	21.96	25.08	33	-7.92
				25	0	21.92	25.04	33	-7.96
	41565	2687.5	QPSK	1	0	21.92	25.04	33	-7.96
				1	24	22.89	26.01	33	-6.99
				12	6	21.64	24.76	33	-8.24
				25	0	21.50	24.62	33	-8.38
5	39675	2498.5	16QAM	1	0	22.19	25.31	33	-7.69
				1	24	22.19	25.31	33	-7.69
				12	6	21.04	24.16	33	-8.84
				25	0	21.02	24.14	33	-8.86
	40620	2593	16QAM	1	0	22.10	25.22	33	-7.78
				1	24	22.12	25.24	33	-7.76
				12	6	21.01	24.13	33	-8.87
				25	0	20.94	24.06	33	-8.94
	41565	2687.5	16QAM	1	0	22.10	25.22	33	-7.78
				1	24	21.76	24.88	33	-8.12
				12	6	20.71	23.83	33	-9.17
				25	0	20.57	23.69	33	-9.31
5	39675	2498.5	64QAM	1	0	21.08	24.20	33	-8.8
				1	24	21.08	24.20	33	-8.8
				12	6	20.10	23.22	33	-9.78
				25	0	20.06	23.18	33	-9.82
	40620	2593	64QAM	1	0	21.02	24.14	33	-8.86
				1	24	21.00	24.12	33	-8.88
				12	6	19.99	23.11	33	-9.89
				25	0	19.96	23.08	33	-9.92
	41565	2687.5	64QAM	1	0	20.93	24.05	33	-8.95
				1	24	20.62	23.74	33	-9.26
				12	6	19.83	22.95	33	-10.05
				25	0	19.93	23.05	33	-9.95

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	22.90	26.02	33	-6.98
				1	49	23.05	26.17	33	-6.83
				25	12	22.03	25.15	33	-7.85
				50	0	21.99	25.11	33	-7.89
	40620	2593	QPSK	1	0	22.97	26.09	33	-6.91
				1	49	22.96	26.08	33	-6.92
				25	12	21.93	25.05	33	-7.95
				50	0	21.90	25.02	33	-7.98
	41540	2685	QPSK	1	0	22.82	25.94	33	-7.06
				1	49	22.74	25.86	33	-7.14
				25	12	21.67	24.79	33	-8.21
				50	0	21.68	24.80	33	-8.2
10	39700	2501	16QAM	1	0	22.13	25.25	33	-7.75
				1	49	22.22	25.34	33	-7.66
				25	12	21.01	24.13	33	-8.87
				50	0	21.06	24.18	33	-8.82
	40620	2593	16QAM	1	0	22.20	25.32	33	-7.68
				1	49	22.18	25.30	33	-7.7
				25	12	20.93	24.05	33	-8.95
				50	0	20.93	24.05	33	-8.95
	41540	2685	16QAM	1	0	22.04	25.16	33	-7.84
				1	49	22.00	25.12	33	-7.88
				25	12	20.73	23.85	33	-9.15
				50	0	20.70	23.82	33	-9.18
10	39700	2501	64QAM	1	0	21.09	24.21	33	-8.79
				1	49	21.06	24.18	33	-8.82
				25	12	20.11	23.23	33	-9.77
				50	0	20.08	23.20	33	-9.8
	40620	2593	64QAM	1	0	21.01	24.13	33	-8.87
				1	49	20.98	24.10	33	-8.9
				25	12	19.94	23.06	33	-9.94
				50	0	19.93	23.05	33	-9.95
	41540	2685	64QAM	1	0	20.40	23.52	33	-9.48
				1	49	20.53	23.65	33	-9.35
				25	12	19.75	22.87	33	-10.13
				50	0	19.67	22.79	33	-10.21

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	23.03	26.15	33	-6.85
				1	74	23.02	26.14	33	-6.86
				36	18	22.06	25.18	33	-7.82
				75	0	22.02	25.14	33	-7.86
	40620	2593	QPSK	1	0	22.97	26.09	33	-6.91
				1	74	22.98	26.10	33	-6.9
				36	18	21.91	25.03	33	-7.97
				75	0	21.81	24.93	33	-8.07
	41515	2682.5	QPSK	1	0	22.99	26.11	33	-6.89
				1	74	22.63	25.75	33	-7.25
				36	18	21.62	24.74	33	-8.26
				75	0	21.60	24.72	33	-8.28
15	39725	2503.5	16QAM	1	0	22.30	25.42	33	-7.58
				1	74	22.28	25.40	33	-7.6
				36	18	21.02	24.14	33	-8.86
				75	0	21.01	24.13	33	-8.87
	40620	2593	16QAM	1	0	22.20	25.32	33	-7.68
				1	74	22.17	25.29	33	-7.71
				36	18	20.93	24.05	33	-8.95
				75	0	20.96	24.08	33	-8.92
	41515	2682.5	16QAM	1	0	21.87	24.99	33	-8.01
				1	74	21.78	24.90	33	-8.1
				36	18	20.72	23.84	33	-9.16
				75	0	20.64	23.76	33	-9.24
15	39725	2503.5	64QAM	1	0	21.05	24.17	33	-8.83
				1	74	21.10	24.22	33	-8.78
				36	18	20.05	23.17	33	-9.83
				75	0	20.03	23.15	33	-9.85
	40620	2593	64QAM	1	0	21.03	24.15	33	-8.85
				1	74	21.03	24.15	33	-8.85
				36	18	19.97	23.09	33	-9.91
				75	0	19.91	23.03	33	-9.97
	41515	2682.5	64QAM	1	0	20.73	23.85	33	-9.15
				1	74	20.66	23.78	33	-9.22
				36	18	19.66	22.78	33	-10.22
				75	0	19.62	22.74	33	-10.26

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	23.08	26.20	33	-6.8
				1	99	23.00	26.12	33	-6.88
				50	25	21.98	25.10	33	-7.9
				100	0	21.94	25.06	33	-7.94
	40620	2593	QPSK	1	0	22.93	26.05	33	-6.95
				1	99	22.87	25.99	33	-7.01
				50	25	21.86	24.98	33	-8.02
				100	0	21.88	25.00	33	-8
	41490	2680	QPSK	1	0	23.00	26.12	33	-6.88
				1	99	22.89	26.01	33	-6.99
				50	25	21.64	24.76	33	-8.24
				100	0	21.62	24.74	33	-8.26
20	39750	2506	16QAM	1	0	22.36	25.48	33	-7.52
				1	99	22.26	25.38	33	-7.62
				50	25	21.03	24.15	33	-8.85
				100	0	20.99	24.11	33	-8.89
	40620	2593	16QAM	1	0	22.22	25.34	33	-7.66
				1	99	22.12	25.24	33	-7.76
				50	25	20.92	24.04	33	-8.96
				100	0	20.97	24.09	33	-8.91
	41490	2680	16QAM	1	0	21.98	25.10	33	-7.9
				1	99	21.84	24.96	33	-8.04
				50	25	20.06	23.18	33	-9.82
				100	0	19.86	22.98	33	-10.02
20	39750	2506	64QAM	1	0	21.13	24.25	33	-8.75
				1	99	21.26	24.38	33	-8.62
				50	25	20.00	23.12	33	-9.88
				100	0	20.01	23.13	33	-9.87
	40620	2593	64QAM	1	0	21.01	24.13	33	-8.87
				1	99	20.96	24.08	33	-8.92
				50	25	19.94	23.06	33	-9.94
				100	0	19.90	23.02	33	-9.98
	41490	2680	64QAM	1	0	20.78	23.90	33	-9.1
				1	99	20.67	23.79	33	-9.21
				50	25	19.77	22.89	33	-10.11
				100	0	19.58	22.70	33	-10.3

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Antenna gain (dBi)		3.4							
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	22.95	26.35	30	-3.65
				1	5	22.97	26.37	30	-3.63
				3	2	23.01	26.41	30	-3.59
				6	0	22.04	25.44	30	-4.56
	132322	1745	QPSK	1	0	22.91	26.31	30	-3.69
				1	5	22.94	26.34	30	-3.66
				3	2	22.98	26.38	30	-3.62
				6	0	21.99	25.39	30	-4.61
	132665	1779.3	QPSK	1	0	22.82	26.22	30	-3.78
				1	5	22.81	26.21	30	-3.79
				3	2	22.89	26.29	30	-3.71
				6	0	21.87	25.27	30	-4.73
1.4	131979	1710.7	16QAM	1	0	22.45	25.85	30	-4.15
				1	5	22.32	25.72	30	-4.28
				3	2	22.16	25.56	30	-4.44
				6	0	21.11	24.51	30	-5.49
	132322	1745	16QAM	1	0	22.51	25.91	30	-4.09
				1	5	22.41	25.81	30	-4.19
				3	2	22.10	25.50	30	-4.5
				6	0	21.08	24.48	30	-5.52
	132665	1779.3	16QAM	1	0	21.87	25.27	30	-4.73
				1	5	21.92	25.32	30	-4.68
				3	2	21.92	25.32	30	-4.68
				6	0	20.97	24.37	30	-5.63
1.4	131979	1710.7	64QAM	1	0	21.36	24.76	30	-5.24
				1	5	21.42	24.82	30	-5.18
				3	2	21.25	24.65	30	-5.35
				6	0	20.14	23.54	30	-6.46
	132322	1745	64QAM	1	0	21.26	24.66	30	-5.34
				1	5	21.26	24.66	30	-5.34
				3	2	21.23	24.63	30	-5.37
				6	0	20.05	23.45	30	-6.55
	132665	1779.3	64QAM	1	0	21.19	24.59	30	-5.41
				1	5	21.03	24.43	30	-5.57
				3	2	20.98	24.38	30	-5.62
				6	0	19.92	23.32	30	-6.68

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Antenna gain (dBi)		3.4							
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)
3	131987	1711.5	QPSK	1	0	23.07	26.47	30	-3.53
				1	14	22.98	26.38	30	-3.62
				8	4	22.13	25.53	30	-4.47
				15	0	22.13	25.53	30	-4.47
	132322	1745	QPSK	1	0	22.99	26.39	30	-3.61
				1	14	22.93	26.33	30	-3.67
				8	4	22.06	25.46	30	-4.54
				15	0	22.07	25.47	30	-4.53
	132657	1778.5	QPSK	1	0	22.85	26.25	30	-3.75
				1	14	22.87	26.27	30	-3.73
				8	4	21.93	25.33	30	-4.67
				15	0	21.97	25.37	30	-4.63
3	131987	1711.5	16QAM	1	0	22.43	25.83	30	-4.17
				1	14	22.37	25.77	30	-4.23
				8	4	21.22	24.62	30	-5.38
				15	0	21.09	24.49	30	-5.51
	132322	1745	16QAM	1	0	22.35	25.75	30	-4.25
				1	14	22.36	25.76	30	-4.24
				8	4	21.18	24.58	30	-5.42
				15	0	21.16	24.56	30	-5.44
	132657	1778.5	16QAM	1	0	22.08	25.48	30	-4.52
				1	14	22.02	25.42	30	-4.58
				8	4	21.12	24.52	30	-5.48
				15	0	21.07	24.47	30	-5.53
3	131987	1711.5	64QAM	1	0	21.30	24.70	30	-5.3
				1	14	21.35	24.75	30	-5.25
				8	4	20.19	23.59	30	-6.41
				15	0	20.14	23.54	30	-6.46
	132322	1745	64QAM	1	0	21.28	24.68	30	-5.32
				1	14	21.20	24.60	30	-5.4
				8	4	20.26	23.66	30	-6.34
				15	0	20.04	23.44	30	-6.56
	132657	1778.5	64QAM	1	0	21.15	24.55	30	-5.45
				1	14	21.26	24.66	30	-5.34
				8	4	20.02	23.42	30	-6.58
				15	0	19.96	23.36	30	-6.64

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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	22.97	26.37	30	-3.63
				1	24	22.96	26.36	30	-3.64
				12	6	22.12	25.52	30	-4.48
				25	0	22.07	25.47	30	-4.53
	132322	1745	QPSK	1	0	22.98	26.38	30	-3.62
				1	24	22.94	26.34	30	-3.66
				12	6	22.06	25.46	30	-4.54
				25	0	22.01	25.41	30	-4.59
	132647	1777.5	QPSK	1	0	22.94	26.34	30	-3.66
				1	24	22.85	26.25	30	-3.75
				12	6	21.97	25.37	30	-4.63
				25	0	21.94	25.34	30	-4.66
5	131997	1712.5	16QAM	1	0	22.20	25.60	30	-4.4
				1	24	22.25	25.65	30	-4.35
				12	6	21.17	24.57	30	-5.43
				25	0	21.08	24.48	30	-5.52
	132322	1745	16QAM	1	0	22.53	25.93	30	-4.07
				1	24	22.40	25.80	30	-4.2
				12	6	21.17	24.57	30	-5.43
				25	0	21.10	24.50	30	-5.5
	132647	1777.5	16QAM	1	0	22.19	25.59	30	-4.41
				1	24	22.18	25.58	30	-4.42
				12	6	21.04	24.44	30	-5.56
				25	0	21.03	24.43	30	-5.57
5	131997	1712.5	64QAM	1	0	21.31	24.71	30	-5.29
				1	24	21.19	24.59	30	-5.41
				12	6	20.23	23.63	30	-6.37
				25	0	20.16	23.56	30	-6.44
	132322	1745	64QAM	1	0	21.04	24.44	30	-5.56
				1	24	20.96	24.36	30	-5.64
				12	6	20.14	23.54	30	-6.46
				25	0	20.11	23.51	30	-6.49
	132647	1777.5	64QAM	1	0	21.01	24.41	30	-5.59
				1	24	21.01	24.41	30	-5.59
				12	6	20.07	23.47	30	-6.53
				25	0	19.96	23.36	30	-6.64

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Antenna gain (dBi)		3.4							
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)
10	132022	1715	QPSK	1	0	22.98	26.38	30	-3.62
				1	49	22.98	26.38	30	-3.62
				25	12	22.14	25.54	30	-4.46
				50	0	22.13	25.53	30	-4.47
	132322	1745	QPSK	1	0	23.01	26.41	30	-3.59
				1	49	22.91	26.31	30	-3.69
				25	12	22.02	25.42	30	-4.58
				50	0	22.06	25.46	30	-4.54
	132622	1775	QPSK	1	0	22.87	26.27	30	-3.73
				1	49	22.81	26.21	30	-3.79
				25	12	21.91	25.31	30	-4.69
				50	0	21.93	25.33	30	-4.67
10	132022	1715	16QAM	1	0	22.46	25.86	30	-4.14
				1	49	22.21	25.61	30	-4.39
				25	12	21.20	24.60	30	-5.4
				50	0	21.18	24.58	30	-5.42
	132322	1745	16QAM	1	0	22.41	25.81	30	-4.19
				1	49	22.17	25.57	30	-4.43
				25	12	21.10	24.50	30	-5.5
				50	0	21.04	24.44	30	-5.56
	132622	1775	16QAM	1	0	21.93	25.33	30	-4.67
				1	49	21.97	25.37	30	-4.63
				25	12	21.01	24.41	30	-5.59
				50	0	20.95	24.35	30	-5.65
10	132022	1715	64QAM	1	0	21.24	24.64	30	-5.36
				1	49	21.24	24.64	30	-5.36
				25	12	20.20	23.60	30	-6.4
				50	0	20.12	23.52	30	-6.48
	132322	1745	64QAM	1	0	21.25	24.65	30	-5.35
				1	49	21.19	24.59	30	-5.41
				25	12	20.05	23.45	30	-6.55
				50	0	20.05	23.45	30	-6.55
	132622	1775	64QAM	1	0	21.04	24.44	30	-5.56
				1	49	20.95	24.35	30	-5.65
				25	12	20.00	23.40	30	-6.6
				50	0	19.99	23.39	30	-6.61

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Antenna gain (dBi)		3.4							
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)
15	132047	1717.5	QPSK	1	0	23.01	26.41	30	-3.59
				1	74	22.84	26.24	30	-3.76
				36	18	22.13	25.53	30	-4.47
				75	0	21.96	25.36	30	-4.64
	132322	1745	QPSK	1	0	23.02	26.42	30	-3.58
				1	74	22.92	26.32	30	-3.68
				36	18	22.05	25.45	30	-4.55
				75	0	21.98	25.38	30	-4.62
	132597	1772.5	QPSK	1	0	22.84	26.24	30	-3.76
				1	74	22.76	26.16	30	-3.84
				36	18	21.96	25.36	30	-4.64
				75	0	21.91	25.31	30	-4.69
15	132047	1717.5	16QAM	1	0	22.40	25.80	30	-4.2
				1	74	22.33	25.73	30	-4.27
				36	18	21.14	24.54	30	-5.46
				75	0	20.99	24.39	30	-5.61
	132322	1745	16QAM	1	0	22.32	25.72	30	-4.28
				1	74	22.16	25.56	30	-4.44
				36	18	21.09	24.49	30	-5.51
				75	0	21.01	24.41	30	-5.59
	132597	1772.5	16QAM	1	0	22.14	25.54	30	-4.46
				1	74	21.98	25.38	30	-4.62
				36	18	21.03	24.43	30	-5.57
				75	0	20.94	24.34	30	-5.66
15	132047	1717.5	64QAM	1	0	21.30	24.70	30	-5.3
				1	74	21.17	24.57	30	-5.43
				36	18	20.17	23.57	30	-6.43
				75	0	20.01	23.41	30	-6.59
	132322	1745	64QAM	1	0	21.37	24.77	30	-5.23
				1	74	21.15	24.55	30	-5.45
				36	18	20.15	23.55	30	-6.45
				75	0	20.05	23.45	30	-6.55
	132597	1772.5	64QAM	1	0	21.02	24.42	30	-5.58
				1	74	21.09	24.49	30	-5.51
				36	18	20.06	23.46	30	-6.54
				75	0	19.96	23.36	30	-6.64

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Antenna gain (dBi)		3.4							
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	23.15	26.55	30	-3.45
				1	99	22.88	26.28	30	-3.72
				50	25	22.01	25.41	30	-4.59
				100	0	21.95	25.35	30	-4.65
	132322	1745	QPSK	1	0	22.98	26.38	30	-3.62
				1	99	22.81	26.21	30	-3.79
				50	25	22.02	25.42	30	-4.58
				100	0	21.95	25.35	30	-4.65
	132572	1770	QPSK	1	0	22.92	26.32	30	-3.68
				1	99	22.82	26.22	30	-3.78
				50	25	21.88	25.28	30	-4.72
				100	0	21.90	25.30	30	-4.7
20	132072	1720	16QAM	1	0	22.50	25.90	30	-4.1
				1	99	22.32	25.72	30	-4.28
				50	25	21.04	24.44	30	-5.56
				100	0	21.00	24.40	30	-5.6
	132322	1745	16QAM	1	0	22.48	25.88	30	-4.12
				1	99	22.22	25.62	30	-4.38
				50	25	21.05	24.45	30	-5.55
				100	0	20.97	24.37	30	-5.63
	132572	1770	16QAM	1	0	22.10	25.50	30	-4.5
				1	99	22.02	25.42	30	-4.58
				50	25	21.00	24.40	30	-5.6
				100	0	20.99	24.39	30	-5.61
20	132072	1720	64QAM	1	0	21.30	24.70	30	-5.3
				1	99	20.91	24.31	30	-5.69
				50	25	20.03	23.43	30	-6.57
				100	0	20.03	23.43	30	-6.57
	132322	1745	64QAM	1	0	21.14	24.54	30	-5.46
				1	99	20.98	24.38	30	-5.62
				50	25	20.04	23.44	30	-6.56
				100	0	20.02	23.42	30	-6.58
	132572	1770	64QAM	1	0	21.11	24.51	30	-5.49
				1	99	21.10	24.50	30	-5.5
				50	25	19.93	23.33	30	-6.67
				100	0	19.96	23.36	30	-6.64

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Antenna gain (dBi)		1.26		LTE Band 71_Uplink frequency band : 663 to 698 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	133147	665.5	QPSK	1	0	23.10	22.21	34.77	-12.56
				1	24	22.81	21.92	34.77	-12.85
				12	6	22.14	21.25	34.77	-13.52
				25	0	22.10	21.21	34.77	-13.56
	133297	680.5	QPSK	1	0	23.12	22.23	34.77	-12.54
				1	24	22.99	22.10	34.77	-12.67
				12	6	22.13	21.24	34.77	-13.53
				25	0	22.19	21.30	34.77	-13.47
	133447	695.5	QPSK	1	0	23.12	22.23	34.77	-12.54
				1	24	22.99	22.10	34.77	-12.67
				12	6	22.13	21.24	34.77	-13.53
				25	0	22.19	21.30	34.77	-13.47
5	133147	665.5	16QAM	1	0	22.56	21.67	34.77	-13.1
				1	24	22.05	21.16	34.77	-13.61
				12	6	21.12	20.23	34.77	-14.54
				25	0	21.13	20.24	34.77	-14.53
	133297	680.5	16QAM	1	0	22.54	21.65	34.77	-13.12
				1	24	22.17	21.28	34.77	-13.49
				12	6	21.16	20.27	34.77	-14.5
				25	0	21.19	20.30	34.77	-14.47
	133447	695.5	16QAM	1	0	22.54	21.65	34.77	-13.12
				1	24	22.17	21.28	34.77	-13.49
				12	6	21.16	20.27	34.77	-14.5
				25	0	21.19	20.30	34.77	-14.47
5	133147	665.5	64QAM	1	0	21.29	20.40	34.77	-14.37
				1	24	21.04	20.15	34.77	-14.62
				12	6	20.18	19.29	34.77	-15.48
				25	0	20.06	19.17	34.77	-15.6
	133297	680.5	64QAM	1	0	21.37	20.48	34.77	-14.29
				1	24	21.28	20.39	34.77	-14.38
				12	6	20.25	19.36	34.77	-15.41
				25	0	20.13	19.24	34.77	-15.53
	133447	695.5	64QAM	1	0	21.37	20.48	34.77	-14.29
				1	24	21.28	20.39	34.77	-14.38
				12	6	20.25	19.36	34.77	-15.41
				25	0	20.13	19.24	34.77	-15.53

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Antenna gain (dBi)		1.26							
LTE Band 71_Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	133172	668	QPSK	1	0	23.08	22.19	34.77	-12.58
				1	49	23.01	22.12	34.77	-12.65
				25	12	22.15	21.26	34.77	-13.51
				50	0	22.12	21.23	34.77	-13.54
	133297	680.5	QPSK	1	0	23.11	22.22	34.77	-12.55
				1	49	22.96	22.07	34.77	-12.7
				25	12	22.17	21.28	34.77	-13.49
				50	0	22.16	21.27	34.77	-13.5
	133422	693	QPSK	1	0	23.05	22.16	34.77	-12.61
				1	49	22.93	22.04	34.77	-12.73
				25	12	22.14	21.25	34.77	-13.52
				50	0	22.08	21.19	34.77	-13.58
10	133172	668	16QAM	1	0	22.43	21.54	34.77	-13.23
				1	49	22.38	21.49	34.77	-13.28
				25	12	21.15	20.26	34.77	-14.51
				50	0	21.13	20.24	34.77	-14.53
	133297	680.5	16QAM	1	0	22.35	21.46	34.77	-13.31
				1	49	22.38	21.49	34.77	-13.28
				25	12	21.17	20.28	34.77	-14.49
				50	0	21.14	20.25	34.77	-14.52
	133422	693	16QAM	1	0	22.36	21.47	34.77	-13.3
				1	49	22.11	21.22	34.77	-13.55
				25	12	21.11	20.22	34.77	-14.55
				50	0	21.08	20.19	34.77	-14.58
10	133172	668	64QAM	1	0	21.22	20.33	34.77	-14.44
				1	49	21.09	20.20	34.77	-14.57
				25	12	20.16	19.27	34.77	-15.5
				50	0	20.21	19.32	34.77	-15.45
	133297	680.5	64QAM	1	0	21.15	20.26	34.77	-14.51
				1	49	21.27	20.38	34.77	-14.39
				25	12	20.24	19.35	34.77	-15.42
				50	0	20.21	19.32	34.77	-15.45
	133422	693	64QAM	1	0	21.30	20.41	34.77	-14.36
				1	49	20.99	20.10	34.77	-14.67
				25	12	20.11	19.22	34.77	-15.55
				50	0	20.15	19.26	34.77	-15.51

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Antenna gain (dBi)		1.26		LTE Band 71_Uplink frequency band : 663 to 698 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
15	133197	670.5	QPSK	1	0	23.14	22.25	34.77	-12.52
				1	74	23.07	22.18	34.77	-12.59
				36	18	22.05	21.16	34.77	-13.61
				75	0	22.21	21.32	34.77	-13.45
	133297	680.5	QPSK	1	0	23.15	22.26	34.77	-12.51
				1	74	22.96	22.07	34.77	-12.7
				36	18	22.22	21.33	34.77	-13.44
				75	0	22.20	21.31	34.77	-13.46
	133397	690.5	QPSK	1	0	23.07	22.18	34.77	-12.59
				1	74	22.92	22.03	34.77	-12.74
				36	18	22.09	21.20	34.77	-13.57
				75	0	22.05	21.16	34.77	-13.61
15	133197	670.5	16QAM	1	0	22.54	21.65	34.77	-13.12
				1	74	22.13	21.24	34.77	-13.53
				36	18	21.14	20.25	34.77	-14.52
				75	0	21.17	20.28	34.77	-14.49
	133297	680.5	16QAM	1	0	22.46	21.57	34.77	-13.2
				1	74	22.18	21.29	34.77	-13.48
				36	18	21.19	20.30	34.77	-14.47
				75	0	21.19	20.30	34.77	-14.47
	133397	690.5	16QAM	1	0	22.26	21.37	34.77	-13.4
				1	74	22.23	21.34	34.77	-13.43
				36	18	21.08	20.19	34.77	-14.58
				75	0	21.05	20.16	34.77	-14.61
15	133197	670.5	64QAM	1	0	21.24	20.35	34.77	-14.42
				1	74	21.24	20.35	34.77	-14.42
				36	18	20.16	19.27	34.77	-15.5
				75	0	20.26	19.37	34.77	-15.4
	133297	680.5	64QAM	1	0	21.47	20.58	34.77	-14.19
				1	74	21.02	20.13	34.77	-14.64
				36	18	20.20	19.31	34.77	-15.46
				75	0	20.16	19.27	34.77	-15.5
	133397	690.5	64QAM	1	0	21.31	20.42	34.77	-14.35
				1	74	20.96	20.07	34.77	-14.7
				36	18	20.08	19.19	34.77	-15.58
				75	0	20.05	19.16	34.77	-15.61

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Antenna gain (dBi)		1.26		LTE Band 71_Uplink frequency band : 663 to 698 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
20	133222	673	QPSK	1	0	23.20	22.31	34.77	-12.46
				1	99	23.03	22.14	34.77	-12.63
				50	25	22.24	21.35	34.77	-13.42
				100	0	22.15	21.26	34.77	-13.51
	133297	680.5	QPSK	1	0	23.09	22.20	34.77	-12.57
				1	99	23.03	22.14	34.77	-12.63
				50	25	22.20	21.31	34.77	-13.46
				100	0	22.18	21.29	34.77	-13.48
	133372	688	QPSK	1	0	23.11	22.22	34.77	-12.55
				1	99	22.87	21.98	34.77	-12.79
				50	25	22.08	21.19	34.77	-13.58
				100	0	22.15	21.26	34.77	-13.51
20	133222	673	16QAM	1	0	22.26	21.37	34.77	-13.4
				1	99	22.37	21.48	34.77	-13.29
				50	25	21.20	20.31	34.77	-14.46
				100	0	21.09	20.20	34.77	-14.57
	133297	680.5	16QAM	1	0	22.27	21.38	34.77	-13.39
				1	99	22.30	21.41	34.77	-13.36
				50	25	21.21	20.32	34.77	-14.45
				100	0	21.12	20.23	34.77	-14.54
	133372	688	16QAM	1	0	22.48	21.59	34.77	-13.18
				1	99	22.31	21.42	34.77	-13.35
				50	25	21.15	20.26	34.77	-14.51
				100	0	21.08	20.19	34.77	-14.58
20	133222	673	64QAM	1	0	21.34	20.45	34.77	-14.32
				1	99	21.24	20.35	34.77	-14.42
				50	25	20.18	19.29	34.77	-15.48
				100	0	20.18	19.29	34.77	-15.48
	133297	680.5	64QAM	1	0	21.15	20.26	34.77	-14.51
				1	99	21.24	20.35	34.77	-14.42
				50	25	20.22	19.33	34.77	-15.44
				100	0	20.13	19.24	34.77	-15.53
	133372	688	64QAM	1	0	21.54	20.65	34.77	-14.12
				1	99	21.12	20.23	34.77	-14.54
				50	25	20.14	19.25	34.77	-15.52
				100	0	20.09	19.20	34.77	-15.57

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7.5.1 LTE Band 41_HPUE

Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	22.46	25.58	33	-7.42
				1	24	22.87	25.99	33	-7.01
				12	6	24.41	27.53	33	-5.47
				25	0	24.41	27.53	33	-5.47
	40620	2593	QPSK	1	0	25.31	28.43	33	-4.57
				1	24	25.29	28.41	33	-4.59
				12	6	24.35	27.47	33	-5.53
				25	0	24.35	27.47	33	-5.53
	41565	2687.5	QPSK	1	0	23.25	26.37	33	-6.63
				1	24	23.01	26.13	33	-6.87
				12	6	24.21	27.33	33	-5.67
				25	0	24.20	27.32	33	-5.68
5	39675	2498.5	16QAM	1	0	24.56	27.68	33	-5.32
				1	24	24.59	27.71	33	-5.29
				12	6	23.45	26.57	33	-6.43
				25	0	23.46	26.58	33	-6.42
	40620	2593	16QAM	1	0	24.51	27.63	33	-5.37
				1	24	24.54	27.66	33	-5.34
				12	6	23.43	26.55	33	-6.45
				25	0	23.37	26.49	33	-6.51
	41565	2687.5	16QAM	1	0	24.27	27.39	33	-5.61
				1	24	24.23	27.35	33	-5.65
				12	6	23.23	26.35	33	-6.65
				25	0	23.22	26.34	33	-6.66
5	39675	2498.5	64QAM	1	0	23.35	26.47	33	-6.53
				1	24	23.38	26.50	33	-6.5
				12	6	22.52	25.64	33	-7.36
				25	0	22.49	25.61	33	-7.39
	40620	2593	64QAM	1	0	23.22	26.34	33	-6.66
				1	24	23.31	26.43	33	-6.57
				12	6	22.50	25.62	33	-7.38
				25	0	22.43	25.55	33	-7.45
	41565	2687.5	64QAM	1	0	23.09	26.21	33	-6.79
				1	24	23.08	26.20	33	-6.8
				12	6	22.27	25.39	33	-7.61
				25	0	22.25	25.37	33	-7.63

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	22.54	25.66	33	-7.34
				1	49	23.75	26.87	33	-6.13
				25	12	24.45	27.57	33	-5.43
				50	0	24.44	27.56	33	-5.44
	40620	2593	QPSK	1	0	25.37	28.49	33	-4.51
				1	49	25.33	28.45	33	-4.55
				25	12	24.38	27.50	33	-5.5
				50	0	24.39	27.51	33	-5.49
	41540	2685	QPSK	1	0	23.42	26.54	33	-6.46
				1	49	23.15	26.27	33	-6.73
				25	12	24.24	27.36	33	-5.64
				50	0	24.23	27.35	33	-5.65
10	39700	2501	16QAM	1	0	24.58	27.70	33	-5.3
				1	49	24.61	27.73	33	-5.27
				25	12	23.47	26.59	33	-6.41
				50	0	23.47	26.59	33	-6.41
	40620	2593	16QAM	1	0	24.67	27.79	33	-5.21
				1	49	24.57	27.69	33	-5.31
				25	12	23.47	26.59	33	-6.41
				50	0	23.38	26.50	33	-6.5
	41540	2685	16QAM	1	0	24.39	27.51	33	-5.49
				1	49	24.29	27.41	33	-5.59
				25	12	23.26	26.38	33	-6.62
				50	0	23.28	26.40	33	-6.6
10	39700	2501	64QAM	1	0	23.38	26.50	33	-6.5
				1	49	23.59	26.71	33	-6.29
				25	12	22.48	25.60	33	-7.4
				50	0	22.46	25.58	33	-7.42
	40620	2593	64QAM	1	0	23.61	26.73	33	-6.27
				1	49	23.47	26.59	33	-6.41
				25	12	22.46	25.58	33	-7.42
				50	0	22.40	25.52	33	-7.48
	41540	2685	64QAM	1	0	23.19	26.31	33	-6.69
				1	49	23.09	26.21	33	-6.79
				25	12	22.30	25.42	33	-7.58
				50	0	22.26	25.38	33	-7.62

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	22.51	25.63	33	-7.37
				1	74	25.50	28.62	33	-4.38
				36	18	24.43	27.55	33	-5.45
				75	0	24.45	27.57	33	-5.43
	40620	2593	QPSK	1	0	25.36	28.48	33	-4.52
				1	74	25.31	28.43	33	-4.57
				36	18	24.42	27.54	33	-5.46
				75	0	24.43	27.55	33	-5.45
	41515	2682.5	QPSK	1	0	23.20	26.32	33	-6.68
				1	74	22.61	25.73	33	-7.27
				36	18	24.26	27.38	33	-5.62
				75	0	24.24	27.36	33	-5.64
15	39725	2503.5	16QAM	1	0	24.64	27.76	33	-5.24
				1	74	24.61	27.73	33	-5.27
				36	18	23.44	26.56	33	-6.44
				75	0	23.49	26.61	33	-6.39
	40620	2593	16QAM	1	0	24.65	27.77	33	-5.23
				1	74	24.56	27.68	33	-5.32
				36	18	23.40	26.52	33	-6.48
				75	0	23.40	26.52	33	-6.48
	41515	2682.5	16QAM	1	0	24.41	27.53	33	-5.47
				1	74	24.27	27.39	33	-5.61
				36	18	23.25	26.37	33	-6.63
				75	0	23.27	26.39	33	-6.61
15	39765	2507.5	64QAM	1	0	23.41	26.53	33	-6.47
				1	74	23.42	26.54	33	-6.46
				36	18	22.45	25.57	33	-7.43
				75	0	22.48	25.60	33	-7.4
	40620	2593	64QAM	1	0	23.44	26.56	33	-6.44
				1	74	23.30	26.42	33	-6.58
				36	18	22.43	25.55	33	-7.45
				75	0	22.41	25.53	33	-7.47
	41515	2682.5	64QAM	1	0	23.19	26.31	33	-6.69
				1	74	23.07	26.19	33	-6.81
				36	18	22.27	25.39	33	-7.61
				75	0	22.27	25.39	33	-7.61

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	22.61	25.73	33	-7.27
				1	99	25.40	28.52	33	-4.48
				50	25	24.47	27.59	33	-5.41
				100	0	24.48	27.60	33	-5.4
	40620	2593	QPSK	1	0	25.74	28.86	33	-4.14
				1	99	25.29	28.41	33	-4.59
				50	25	24.41	27.53	33	-5.47
				100	0	24.44	27.56	33	-5.44
	41490	2680	QPSK	1	0	25.24	28.36	33	-4.64
				1	99	23.53	26.65	33	-6.35
				50	25	24.32	27.44	33	-5.56
				100	0	24.23	27.35	33	-5.65
20	39750	2506	16QAM	1	0	24.65	27.77	33	-5.23
				1	99	24.61	27.73	33	-5.27
				50	25	23.53	26.65	33	-6.35
				100	0	23.50	26.62	33	-6.38
	40620	2593	16QAM	1	0	24.65	27.77	33	-5.23
				1	99	24.46	27.58	33	-5.42
				50	25	23.45	26.57	33	-6.43
				100	0	23.46	26.58	33	-6.42
	41490	2680	16QAM	1	0	24.40	27.52	33	-5.48
				1	99	24.28	27.40	33	-5.6
				50	25	23.33	26.45	33	-6.55
				100	0	23.24	26.36	33	-6.64
20	39750	2506	64QAM	1	0	23.40	26.52	33	-6.48
				1	99	23.39	26.51	33	-6.49
				50	25	22.52	25.64	33	-7.36
				100	0	22.49	25.61	33	-7.39
	40620	2593	64QAM	1	0	23.41	26.53	33	-6.47
				1	99	23.28	26.40	33	-6.6
				50	25	22.44	25.56	33	-7.44
				100	0	22.46	25.58	33	-7.42
	41490	2680	64QAM	1	0	23.23	26.35	33	-6.65
				1	99	23.09	26.21	33	-6.79
				50	25	22.37	25.49	33	-7.51
				100	0	22.23	25.35	33	-7.65

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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.6, RSS-140 §4.4, RSS-195 §5.6, RSS-199 §4.5

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

FCC §27.53(a)

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
- (i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;
 - (ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;
 - (iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

FCC §27.53(c)

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

- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

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

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ISED RSS-130 §4.7.1

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

ISED RSS-130 §4.7.2 f

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

$65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

ISED RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

ISED RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

- i. In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- ii. After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

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RSS-139 §6.6

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

ISED RSS-140 §4.4

- a. For any frequency between 769-775 MHz and 799-806 MHz:
 - i. $76 + 10 \log(p)$, dB in a 6.25 kHz band for fixed and base station equipment
 - ii. $65 + 10 \log(p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment
- b. For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: $43 + 10 \log(p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

FCC §27.53(m) (4) (6)

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

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

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ISED RSS-195 §5.6

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P(dBW), by the amount indicated in Table 2, where p is the transmitter output power measured in watts.

Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment			
Frequency (MHz)	Attenuation (dB)	Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$	2324 - 2328	$61 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$	2328 - 2337	$67 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$	2337 - 2341	$61 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$	2341 - 2345	$55 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$	2345 - 2360	$43 + 10 \log_{10}(p)$ FootnoteNote
2300 - 2305	$43 + 10 \log_{10}(p)$	2360 - 2365	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ FootnoteNote	2365 - 2395	$70 + 10 \log_{10}(p)$
2320 - 2324	$55 + 10 \log_{10}(p)$	>2395	$43 + 10 \log_{10}(p)$

Note -- Mobile and portable equipment are prohibited from transmitting in the bands 2315-2320 MHz and 2345-2350 MHz. In addition, mobile and portable equipment employing FDD technology shall be restricted to transmitting in the band 2305-2315 MHz.

RSS-199 §4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

$40 + 10 \log_{10} p$ from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

FCC §90.543 (e)

For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the

licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the

licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

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(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

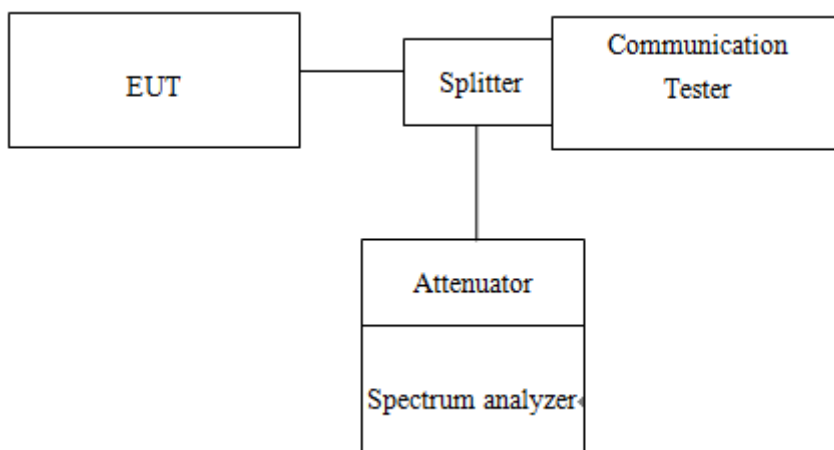
FCC §90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

8.2 Test SET-UP



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8.3 Measurement Procedure

8.3.1 Conducted Emission

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

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

8.3.2 Band Edge

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

8.4 Band Edge Measurement Result:

Refer to next pages.

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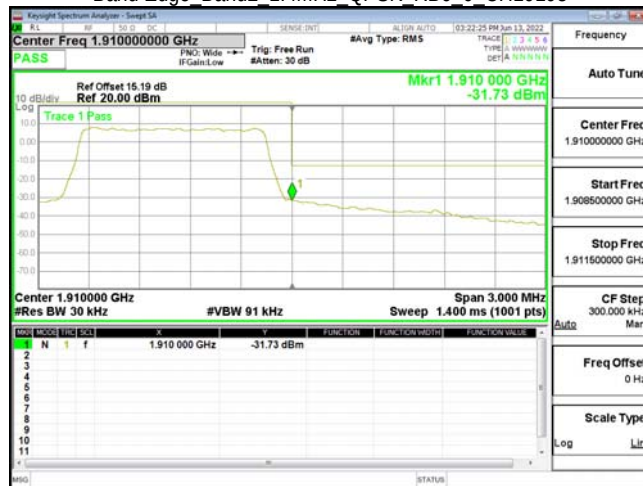
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Band Edge Band2 1.4MHz QPSK RB1 0 CH18607



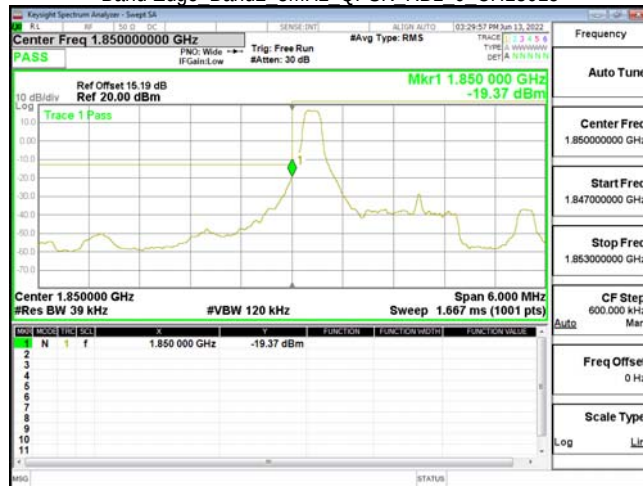
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Band Edge Band2 1.4MHz QPSK RB1 5 CH19193



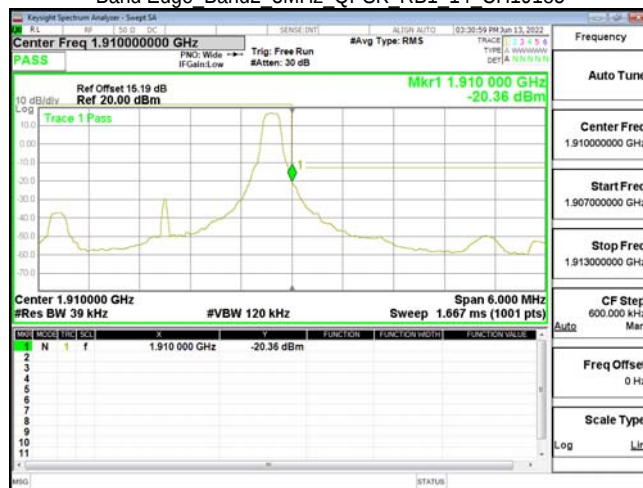
Band Edge Band2 3MHz QPSK RB1 0 CH18615



Band Edge Band2 1.4MHz QPSK RB6 0 CH18607



Band Edge Band2 3MHz QPSK RB1 14 CH19185

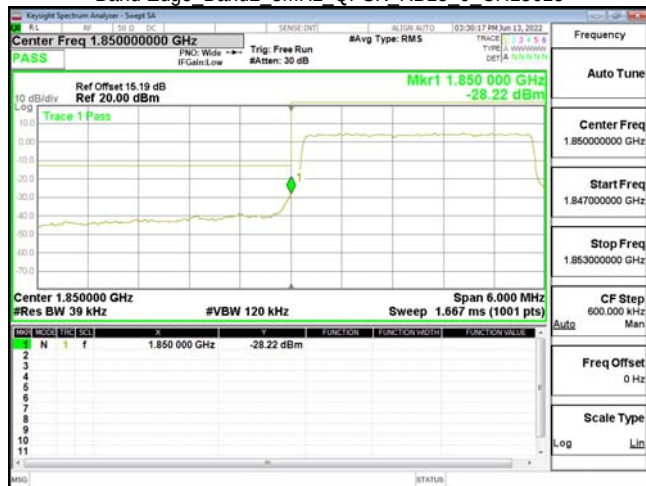


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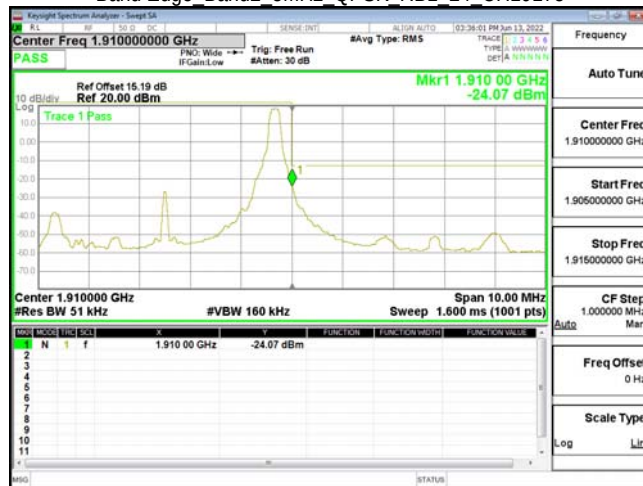
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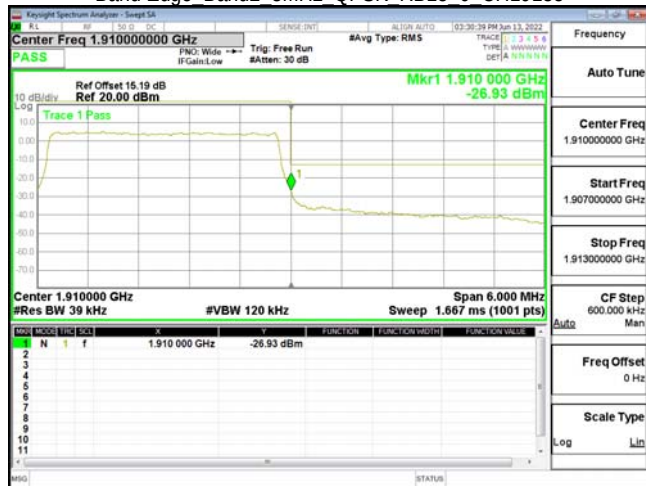
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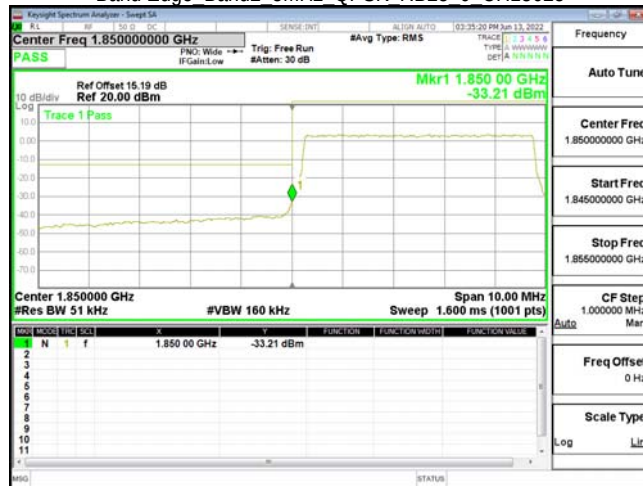
Band Edge Band2 5MHz QPSK RB1 24 CH19175



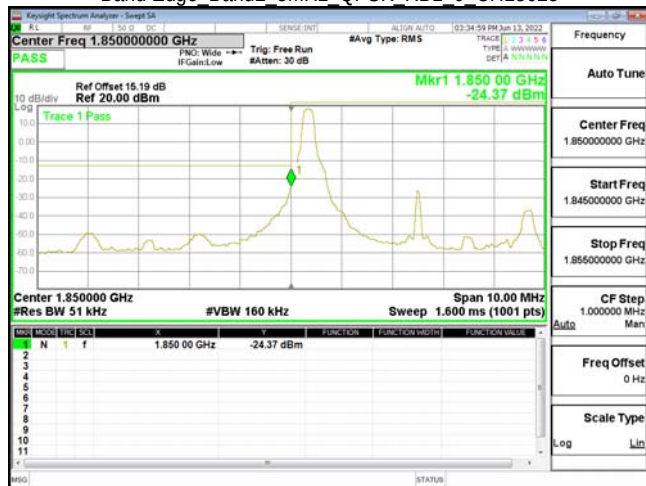
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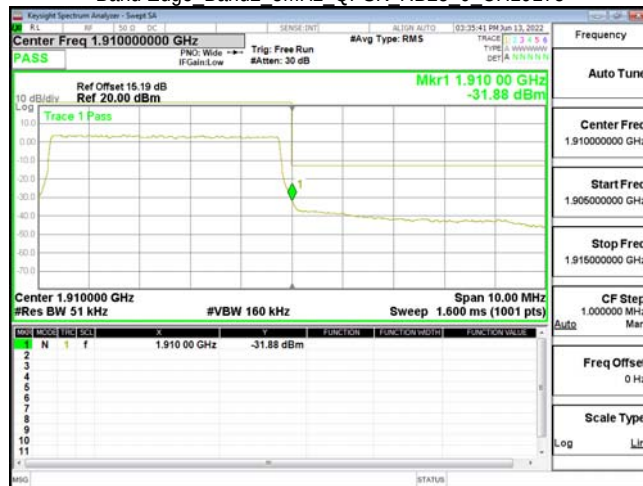
Band Edge Band2 5MHz QPSK RB25 0 CH18625



Band Edge Band2 5MHz QPSK RB1 0 CH18625



Band Edge Band2 5MHz QPSK RB25 0 CH19175

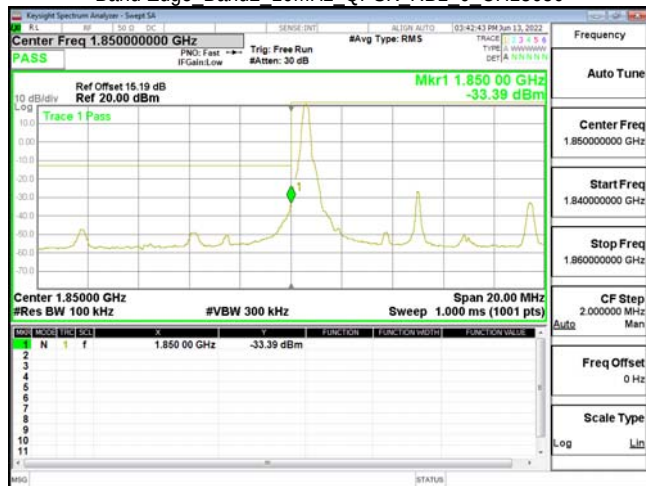


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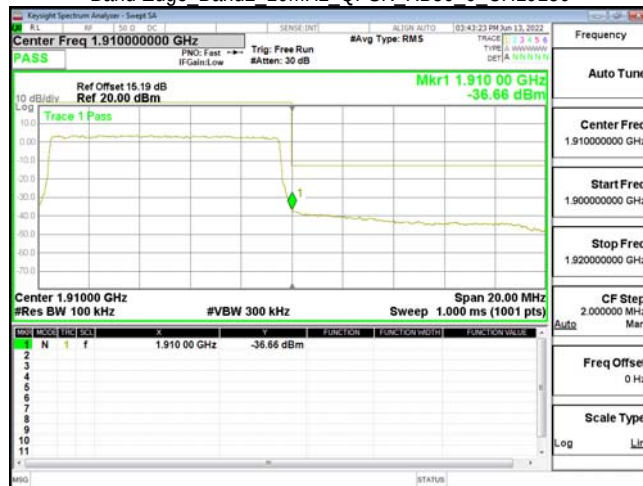
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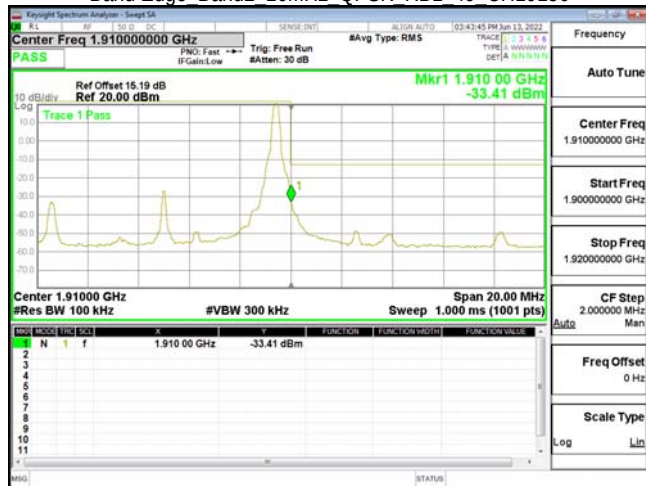
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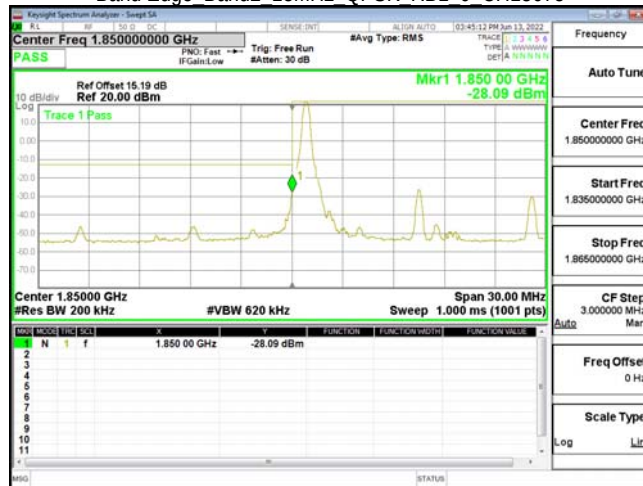
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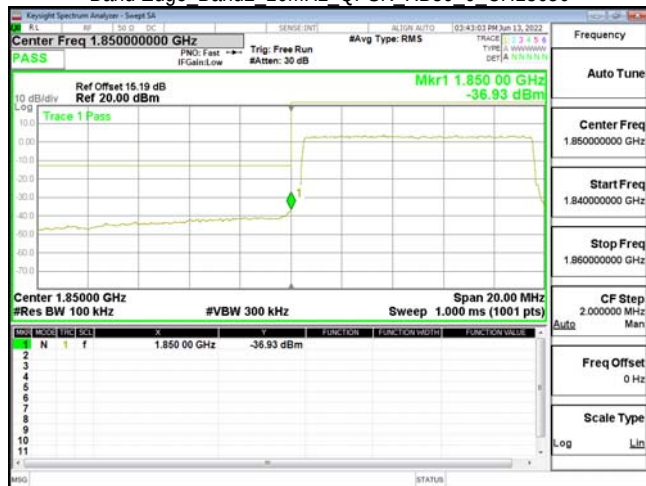
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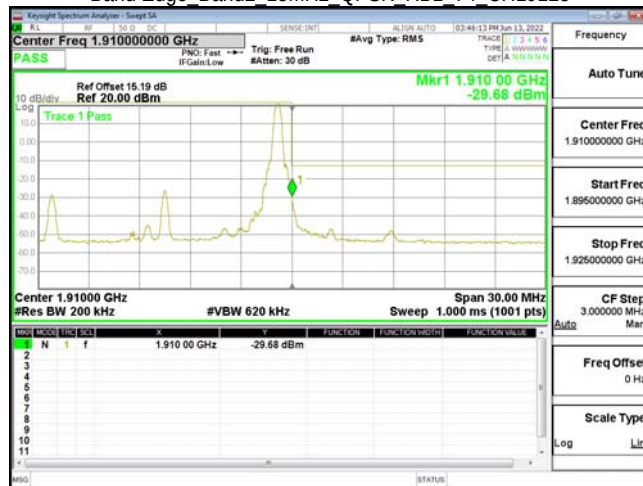
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Band Edge Band2 10MHz QPSK RB50 0 CH18650



Band Edge Band2 15MHz QPSK RB1 74 CH19125

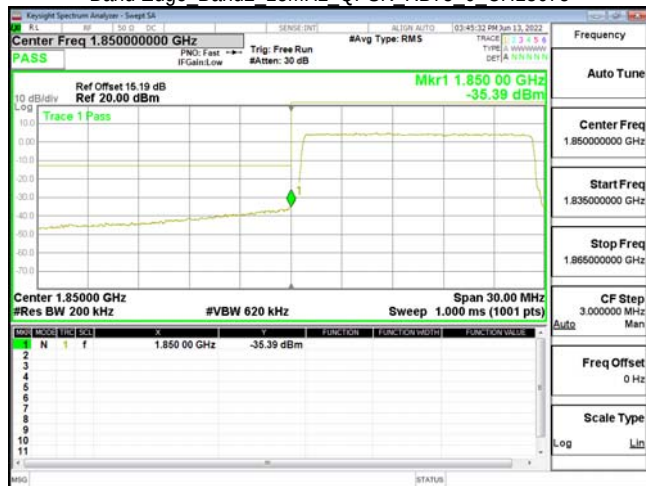


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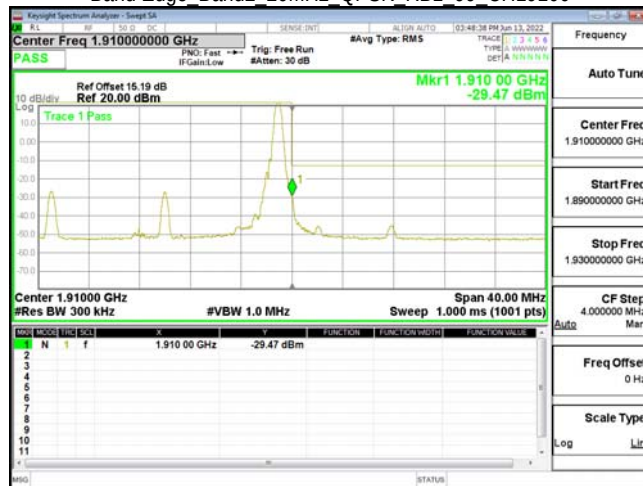
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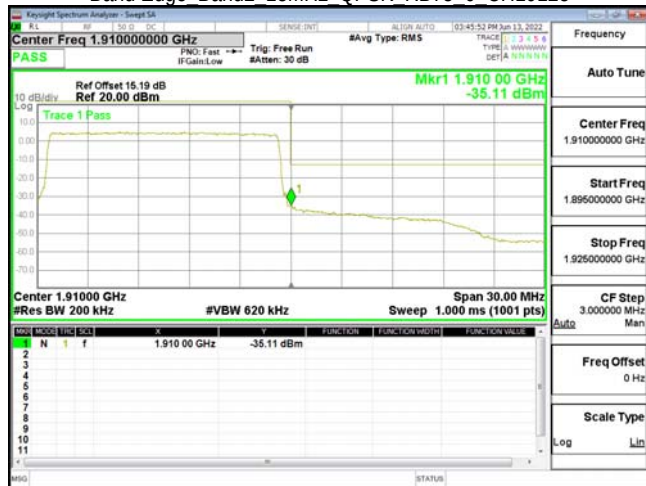
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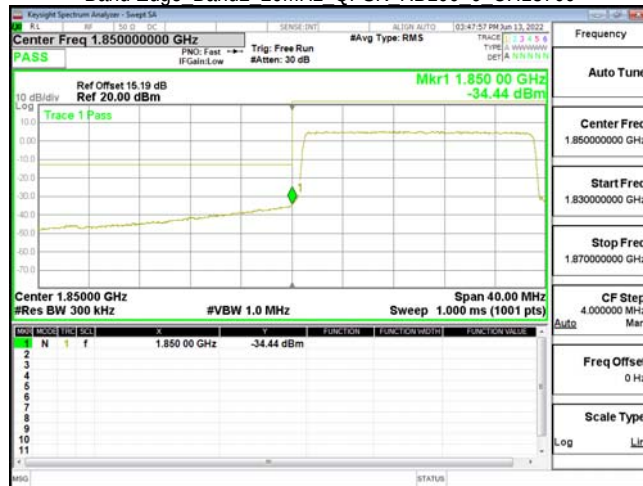
Band Edge Band2 20MHz QPSK RB1 99 CH19100



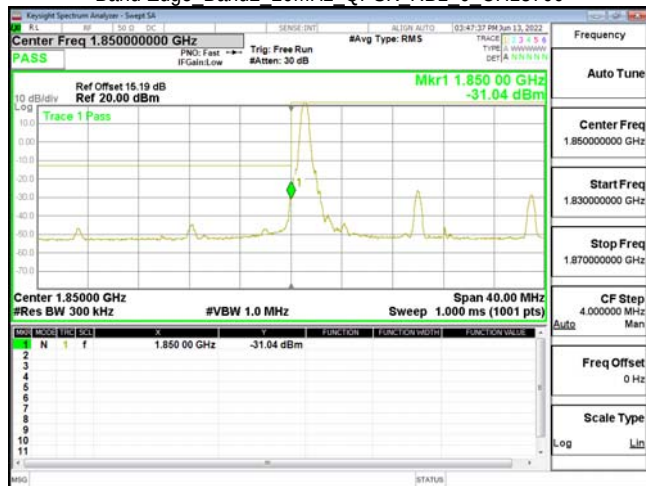
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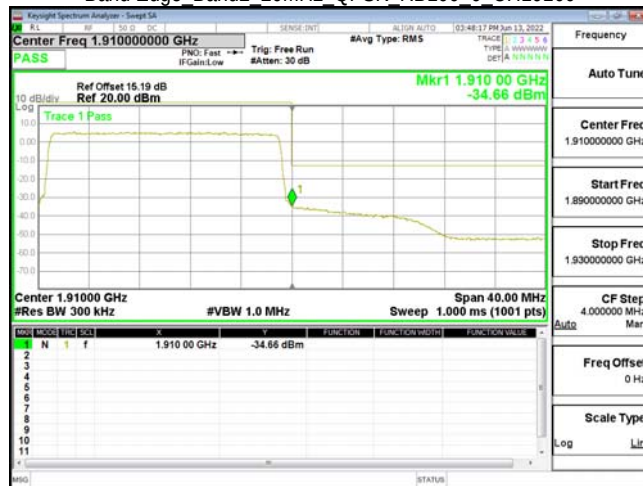
Band Edge Band2 20MHz QPSK RB100 0 CH18700



Band Edge Band2 20MHz QPSK RB1 0 CH18700



Band Edge Band2 20MHz QPSK RB100 0 CH19100



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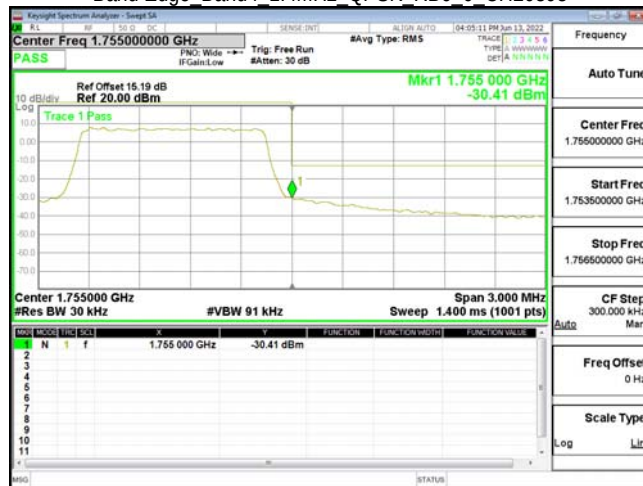
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Band Edge Band4 1.4MHz QPSK RB1 0 CH19957



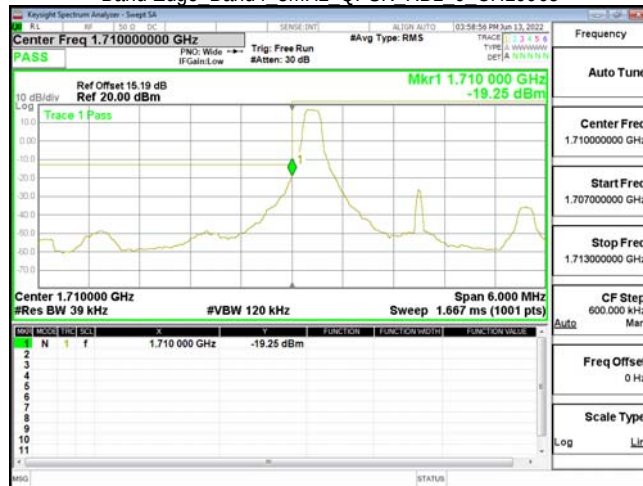
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Band Edge Band4 1.4MHz QPSK RB1 5 CH20393



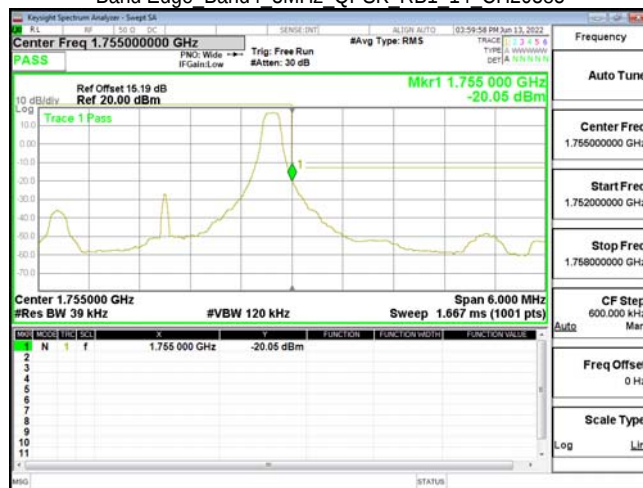
Band Edge Band4 3MHz QPSK RB1 0 CH19965



Band Edge Band4 1.4MHz QPSK RB6 0 CH19957



Band Edge Band4 3MHz QPSK RB1 14 CH20385



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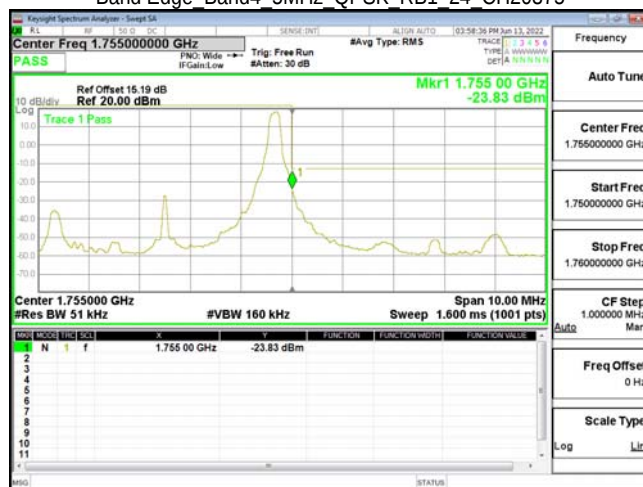
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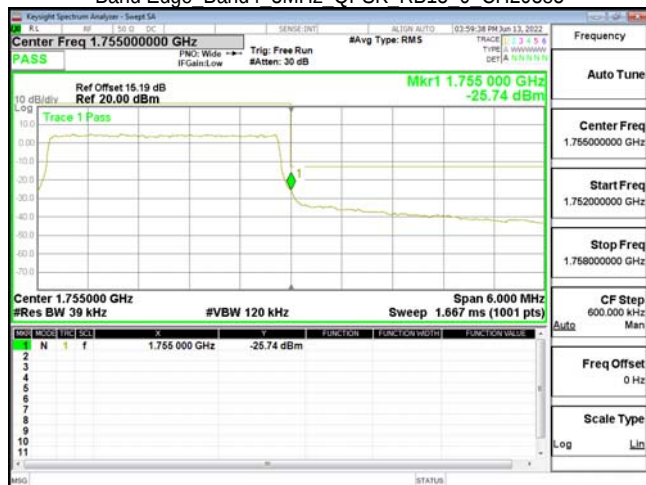
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Band Edge Band4 5MHz QPSK RB1 24 CH20375



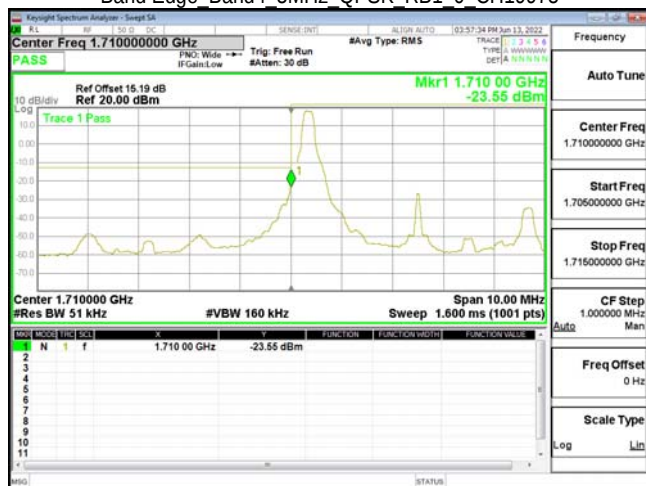
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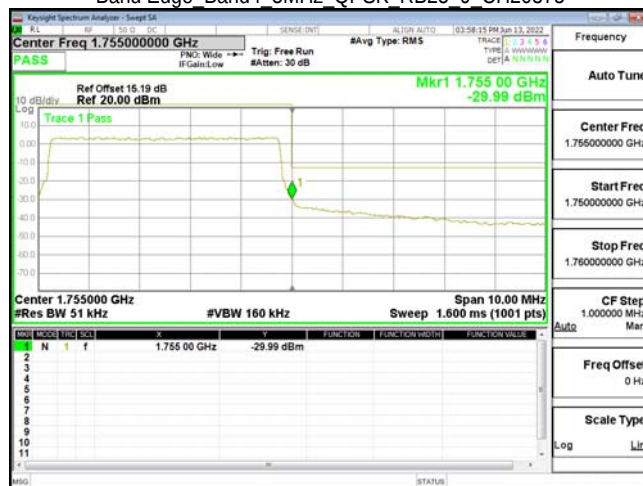
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Band Edge Band4 5MHz QPSK RB1 0 CH19975



Band Edge Band4 5MHz QPSK RB25 0 CH20375

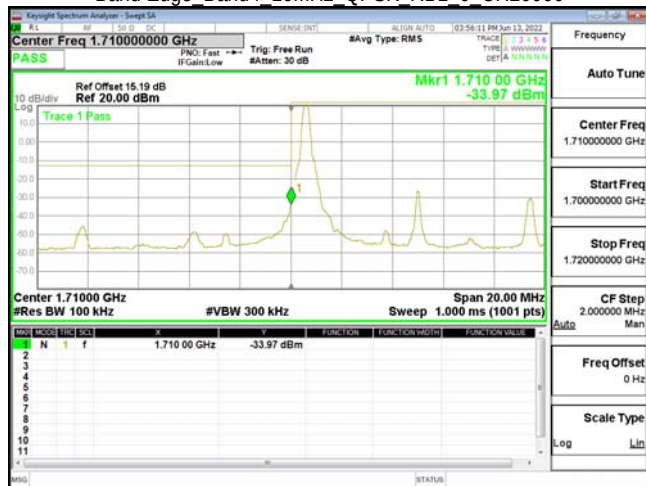


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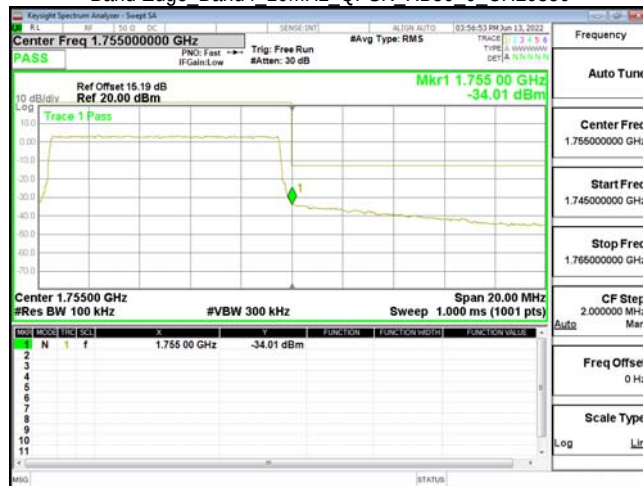
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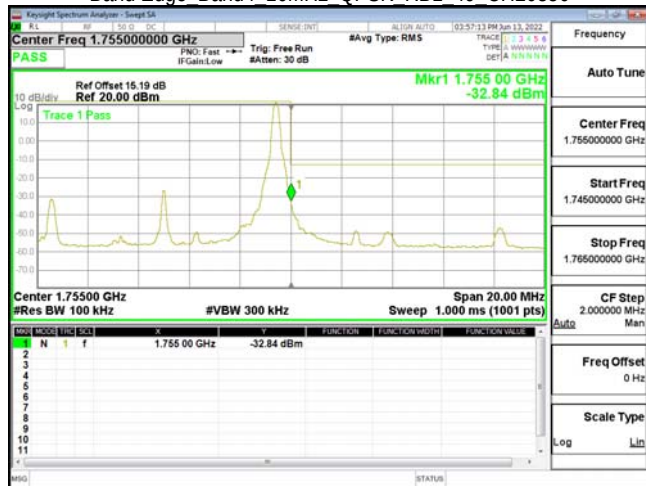
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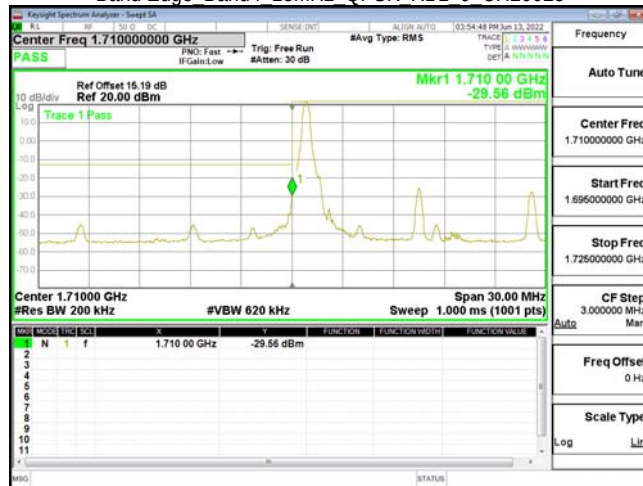
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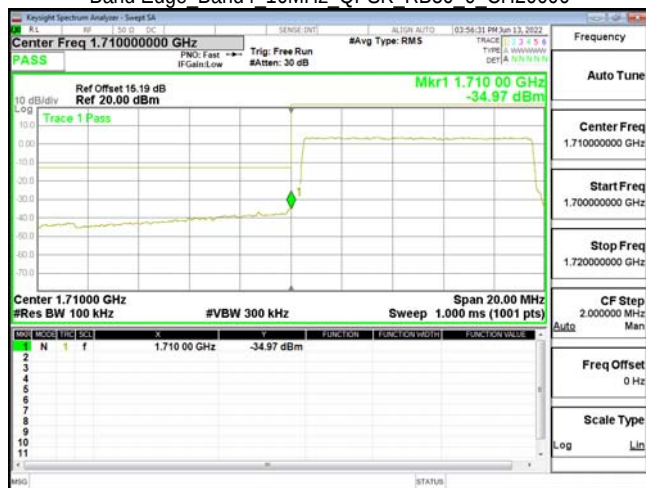
Band Edge Band4 10MHz QPSK RB1 49 CH20350



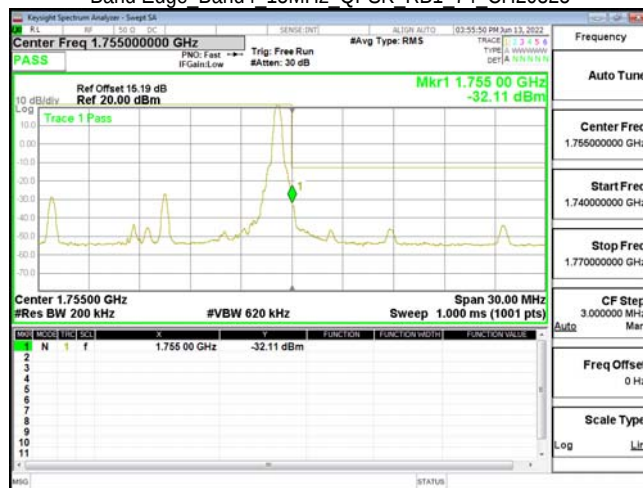
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Band Edge Band4 15MHz QPSK RB1 74 CH20325

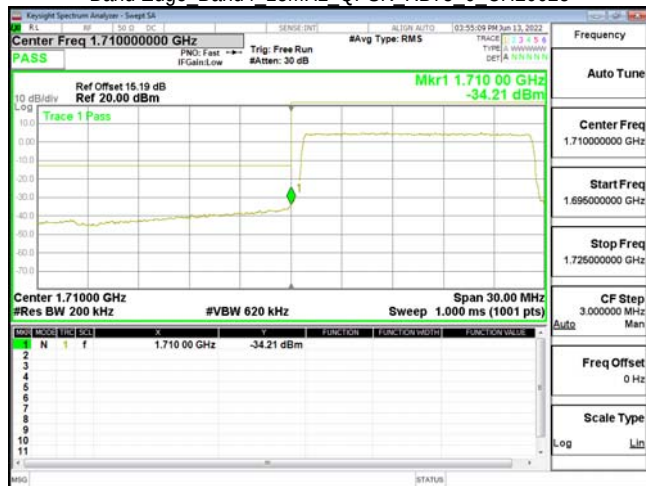


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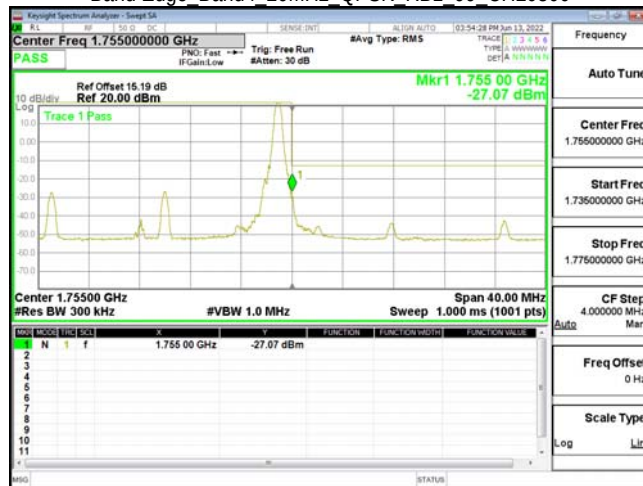
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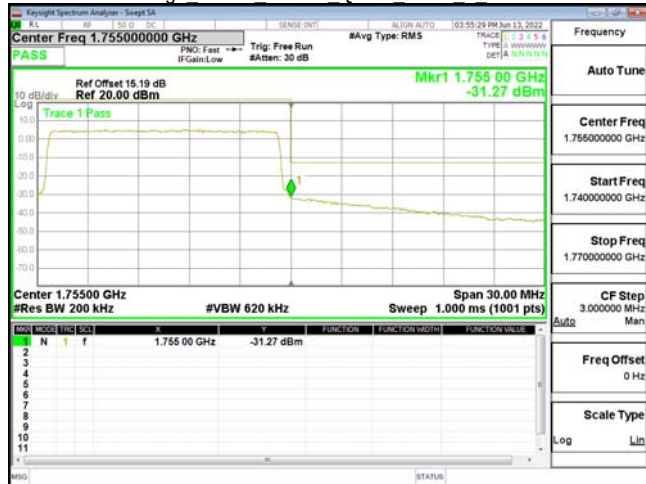
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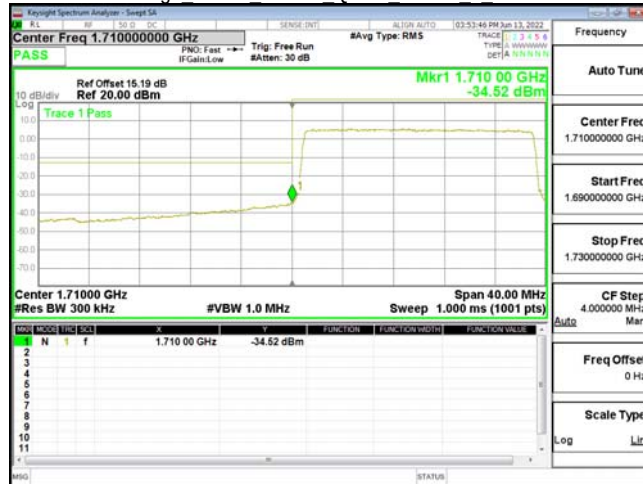
Band Edge Band4 20MHz QPSK RB1 99 CH20300



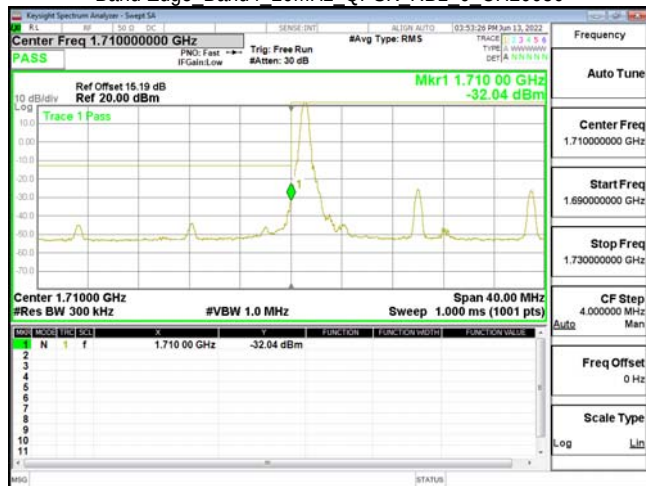
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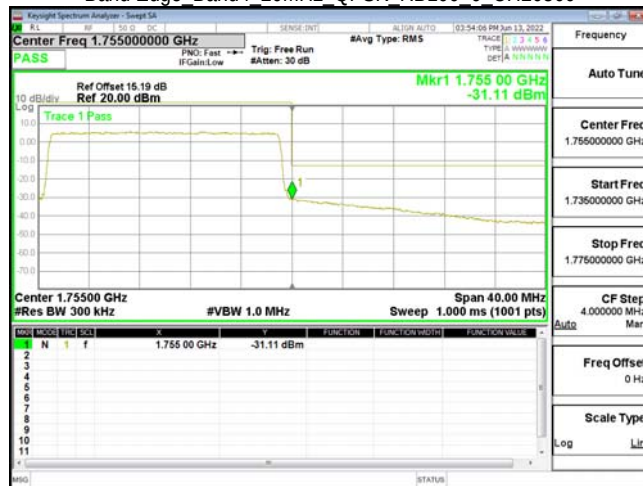
Band Edge Band4 20MHz QPSK RB100 0 CH20050



Band Edge Band4 20MHz QPSK RB1 0 CH20050



Band Edge Band4 20MHz QPSK RB100 0 CH20300



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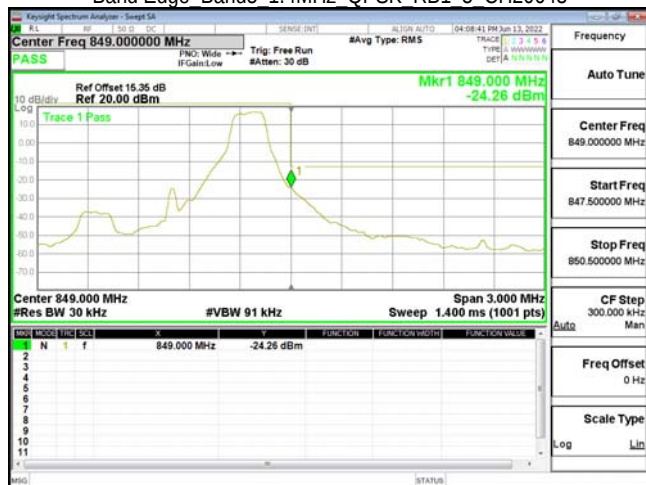
Band Edge Band5 1.4MHz QPSK RB1 0 CH20407



Band Edge Band5 1.4MHz QPSK RB6 0 CH20643



Band Edge Band5 1.4MHz QPSK RB1 5 CH20643



Band Edge Band5 3MHz QPSK RB1 0 CH20415



Band Edge Band5 1.4MHz QPSK RB6 0 CH20407



Band Edge Band5 3MHz QPSK RB1 14 CH20635

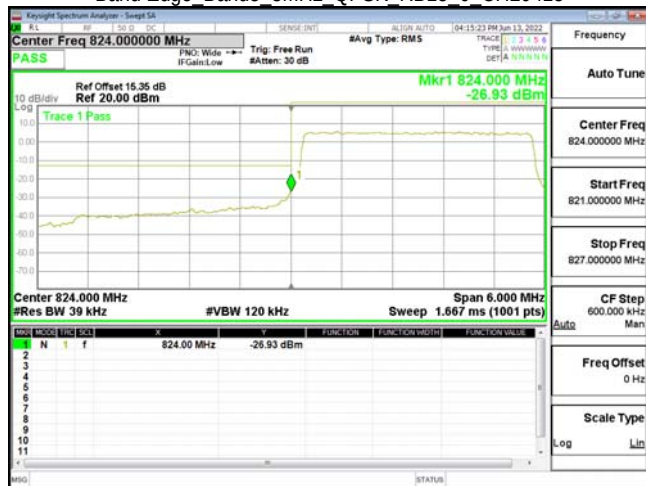


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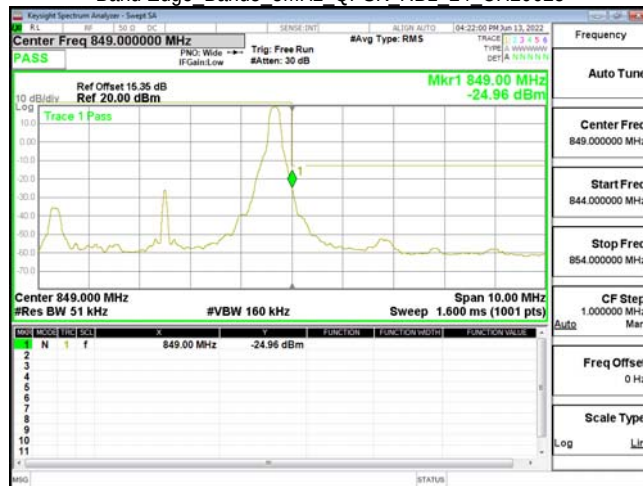
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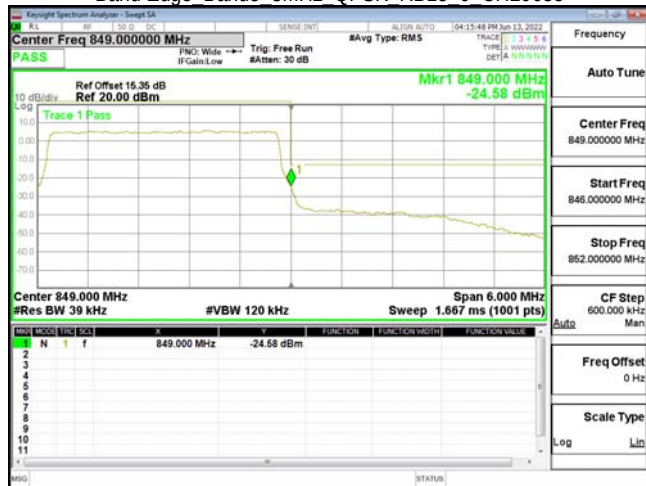
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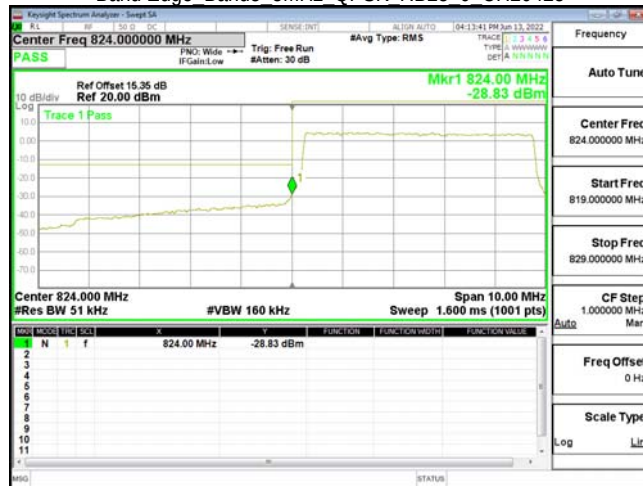
Band Edge Band5 5MHz QPSK RB1 24 CH20625



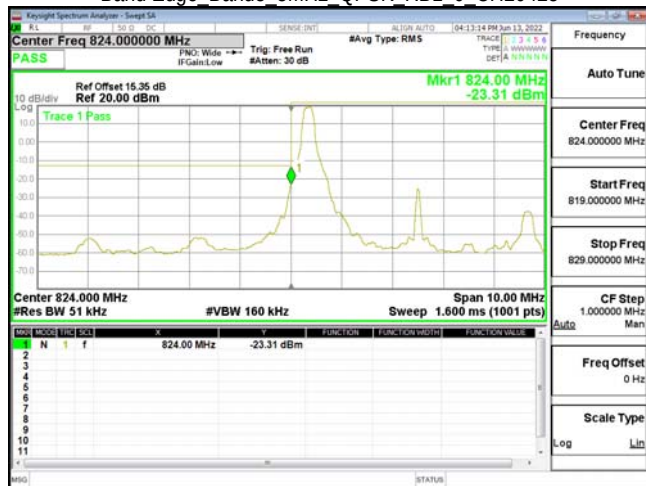
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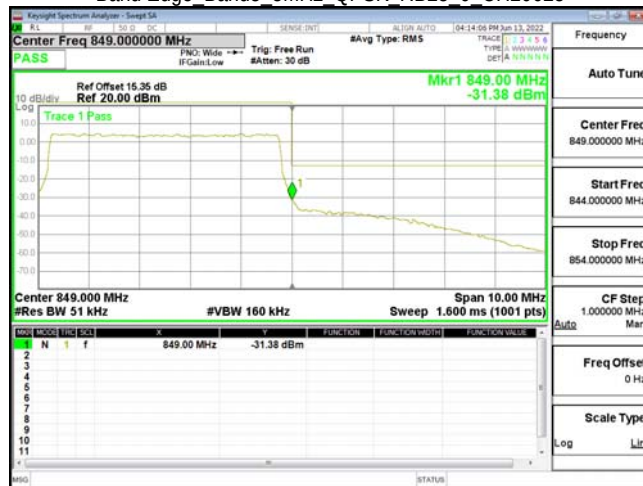
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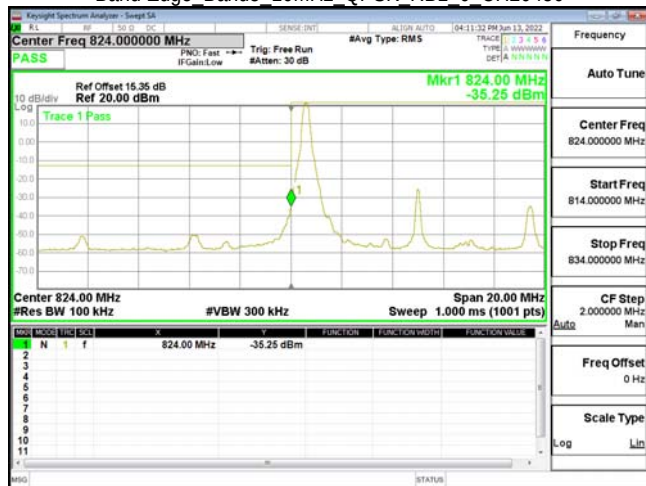


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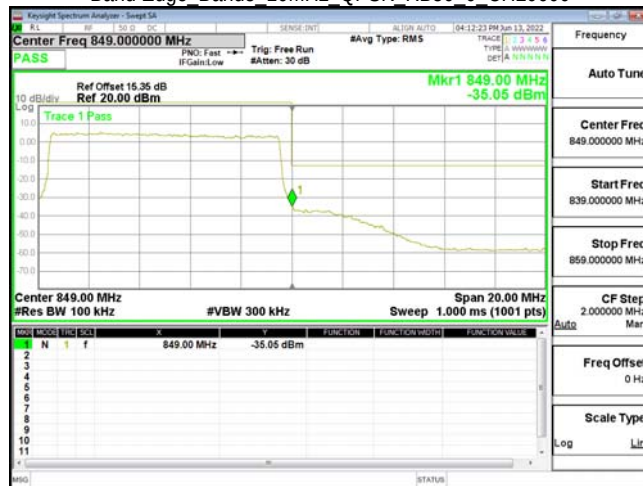
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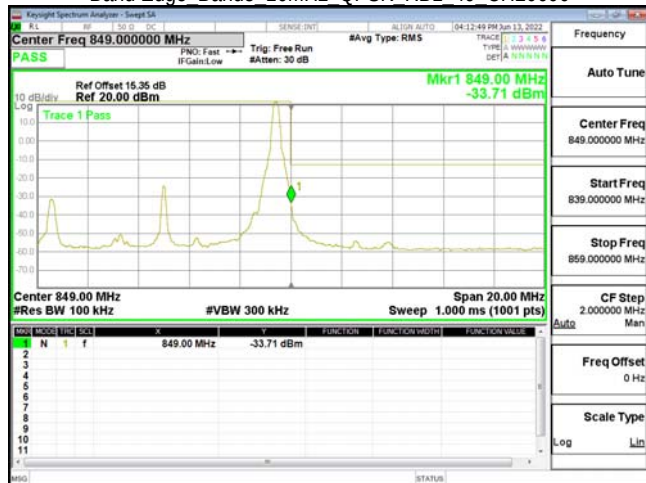
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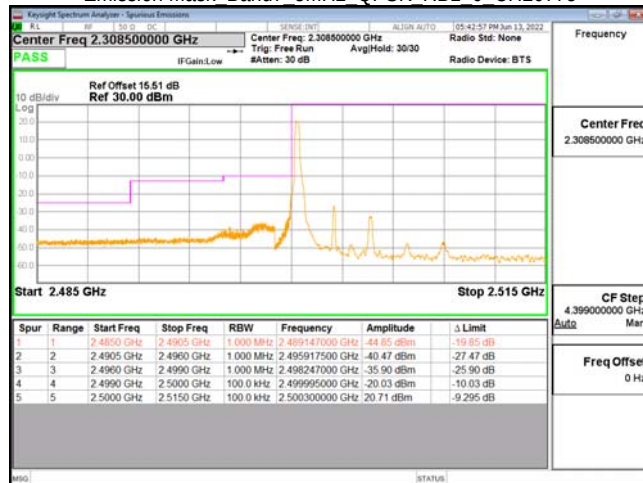
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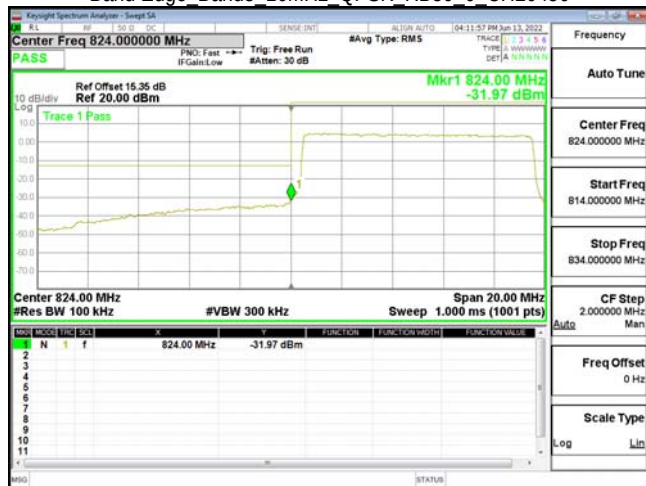
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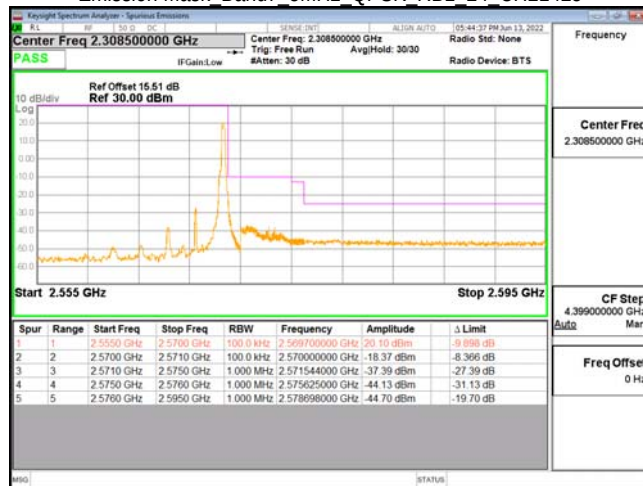
Emission Mask Band7 5MHz QPSK RB1 0 CH20775



Band Edge Band5 10MHz QPSK RB50 0 CH20450



Emission Mask Band7 5MHz QPSK RB1 24 CH21425

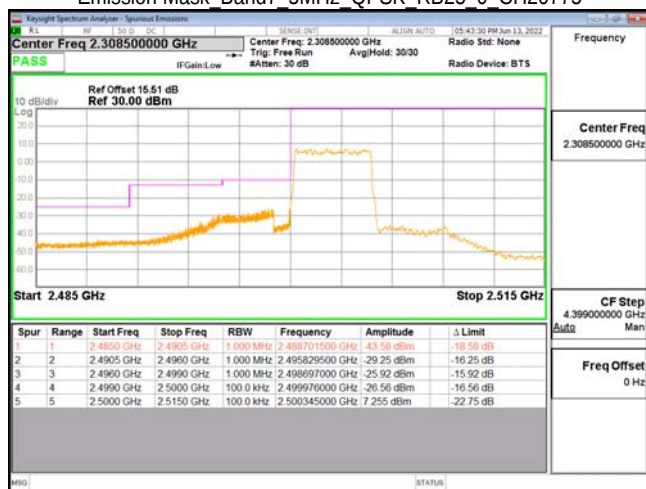


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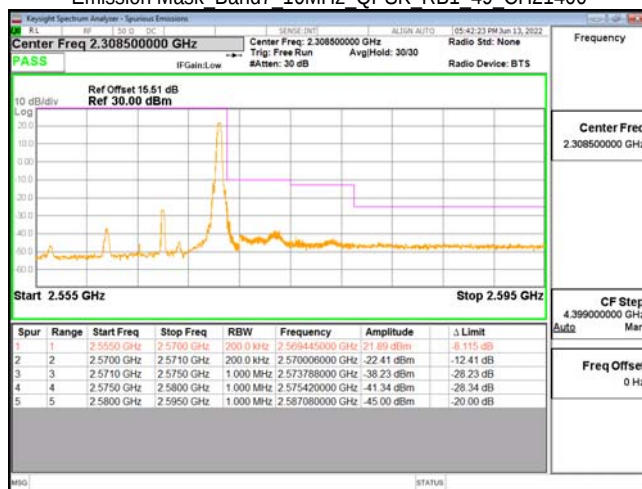
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Emission Mask Band7 5MHz QPSK RB25 0 CH20775



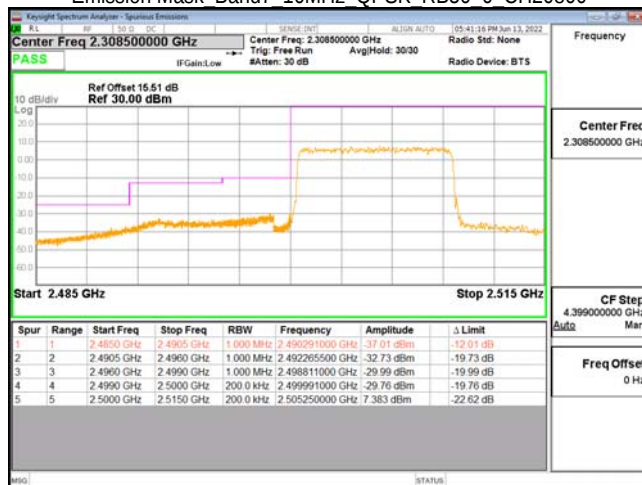
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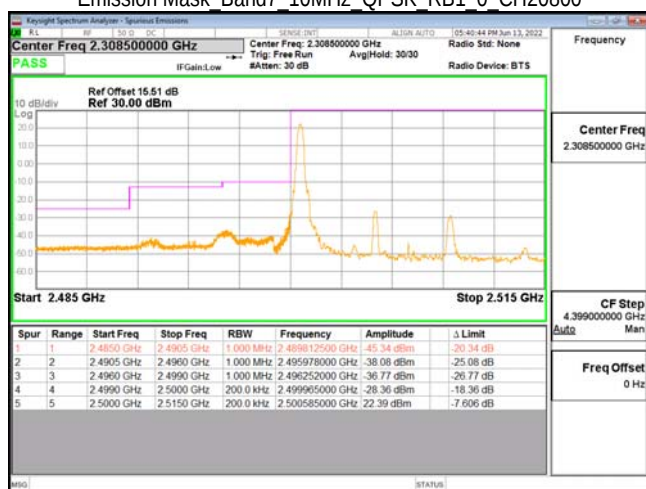
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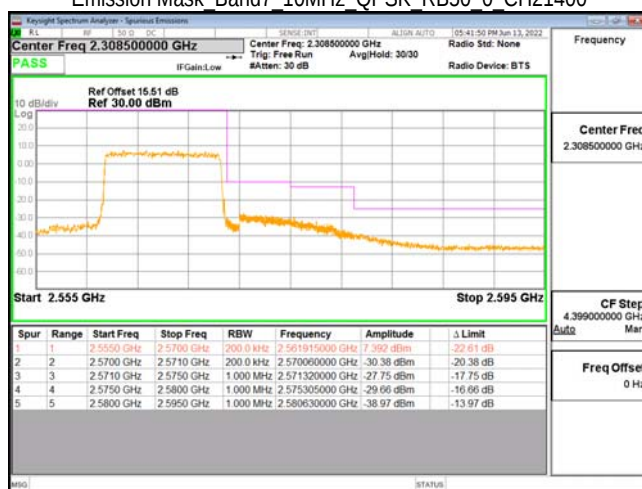
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Emission Mask Band7 10MHz QPSK RB1 0 CH20800



Emission Mask Band7 10MHz QPSK RB50 0 CH21400

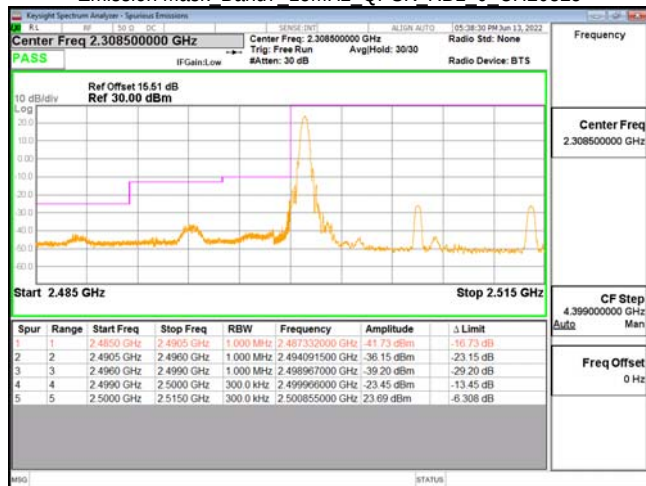


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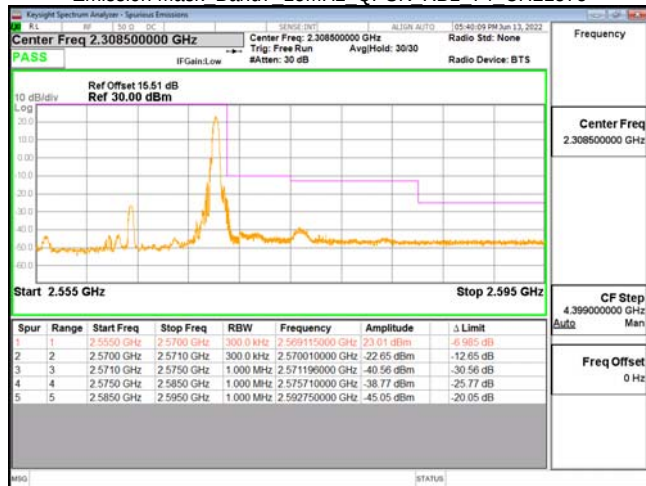
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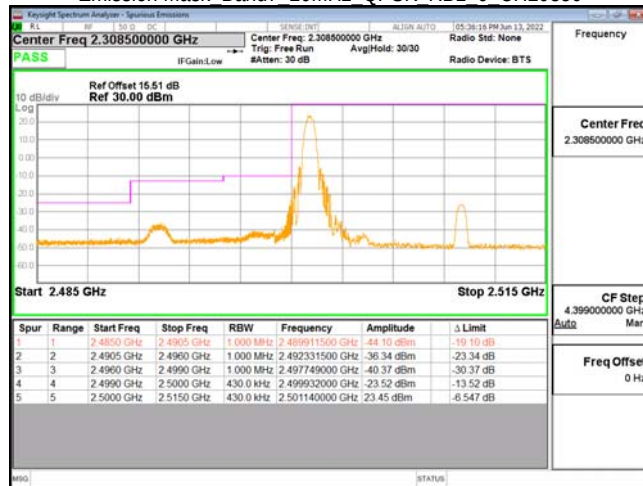
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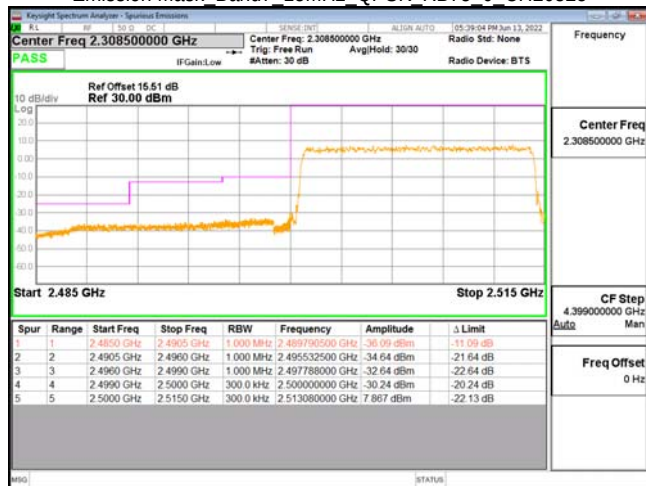
Emission Mask Band7 15MHz QPSK RB1 74 CH21375



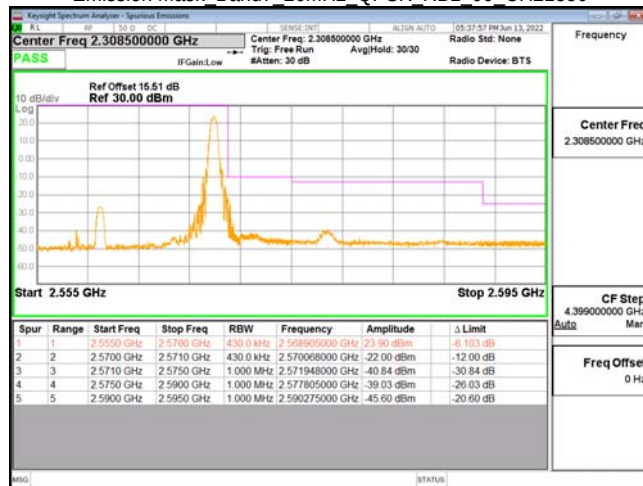
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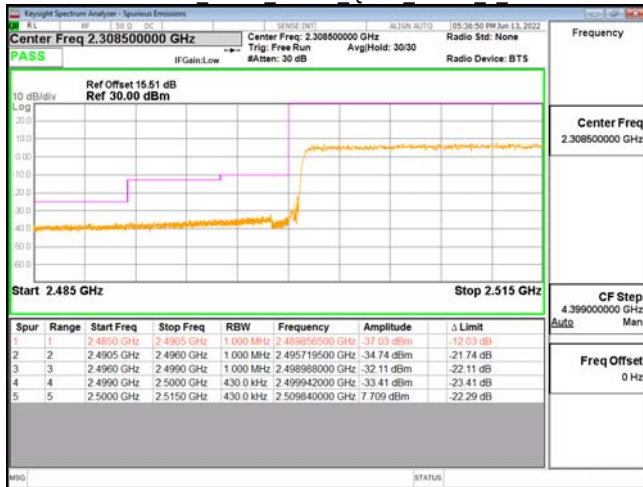


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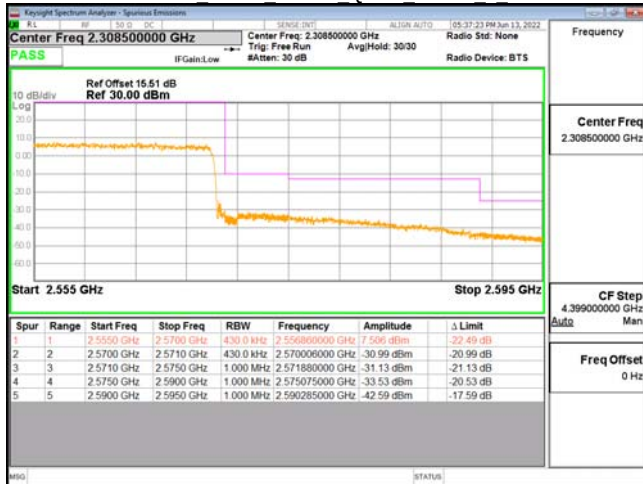
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Band Edge Band12 1.4MHz QPSK RB1 5 CH23173



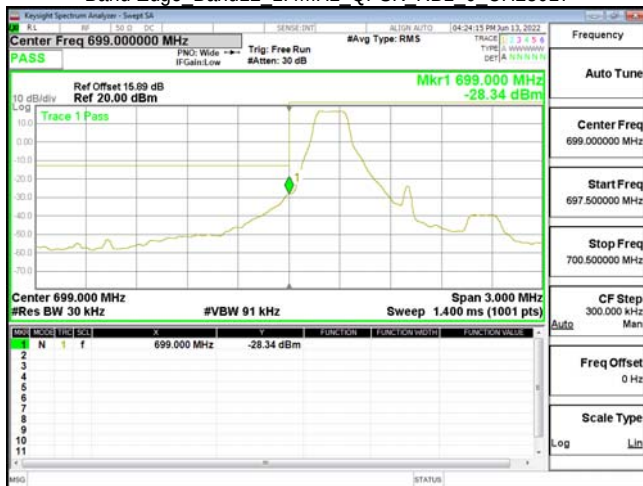
Emission Mask Band7 20MHz QPSK RB100 0 CH21350



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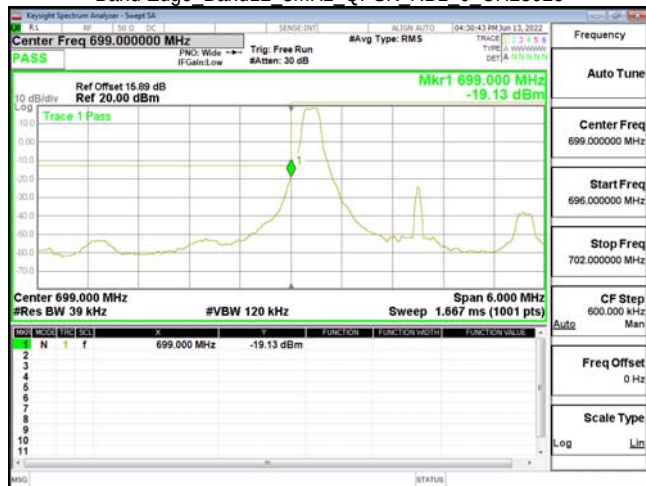


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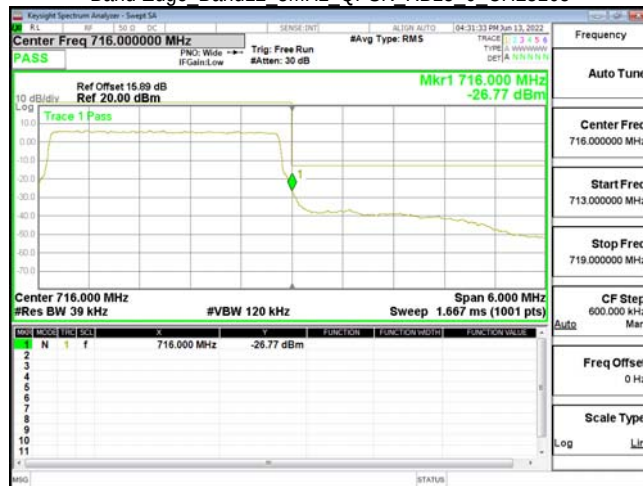
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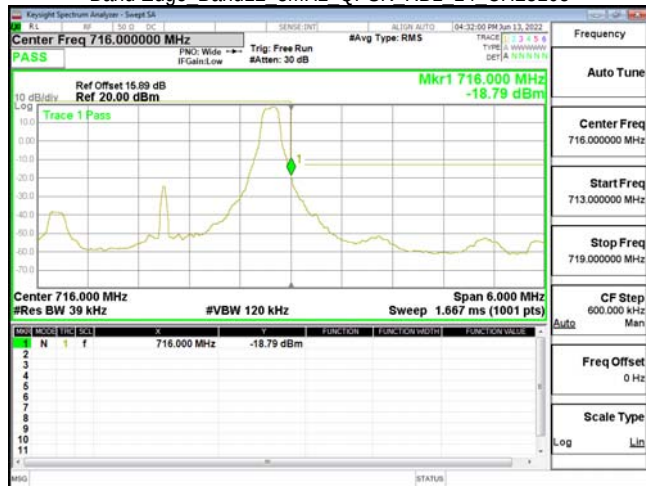
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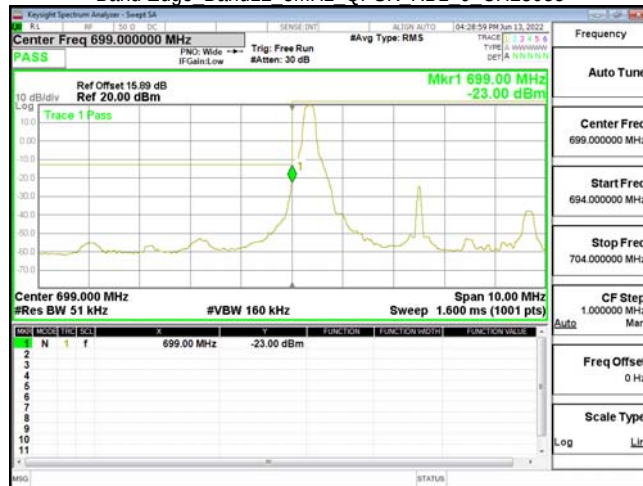
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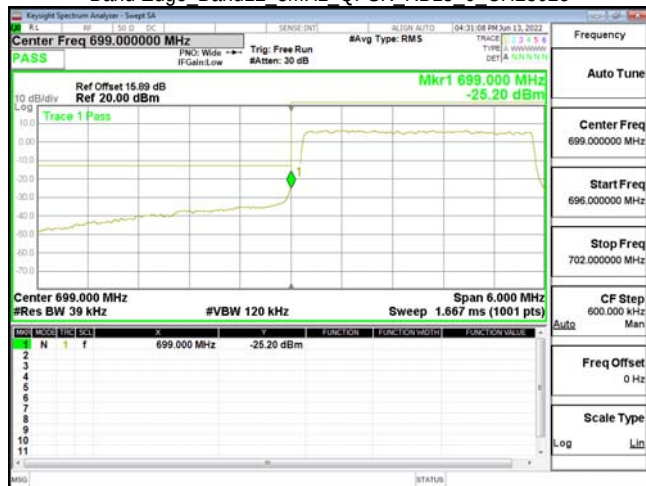
Band Edge Band12 3MHz QPSK RB1 14 CH23165



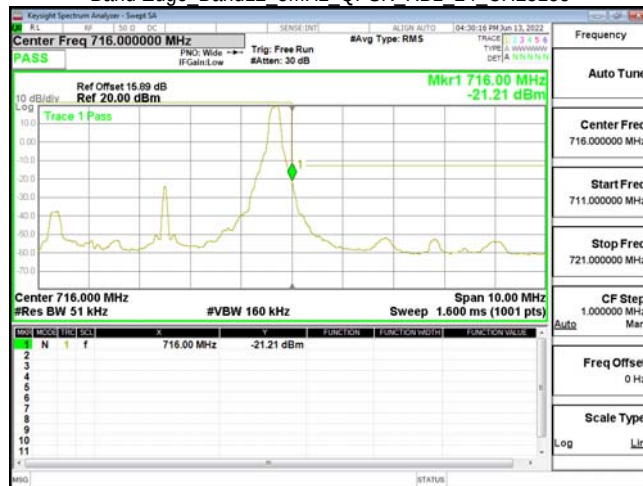
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Band Edge Band12 3MHz QPSK RB15 0 CH23025



Band Edge Band12 5MHz QPSK RB1 24 CH23155

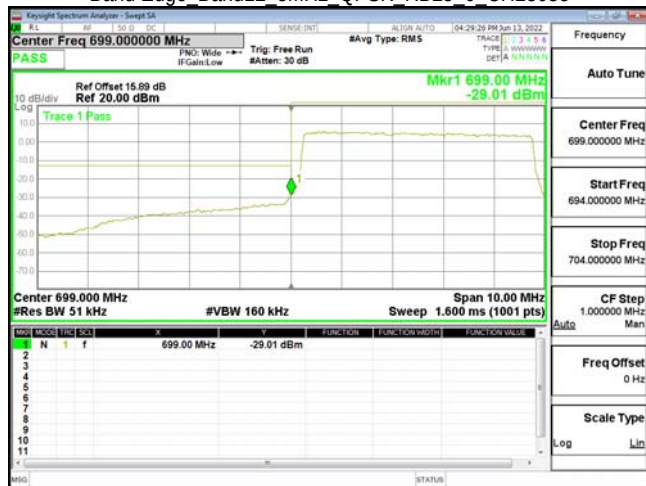


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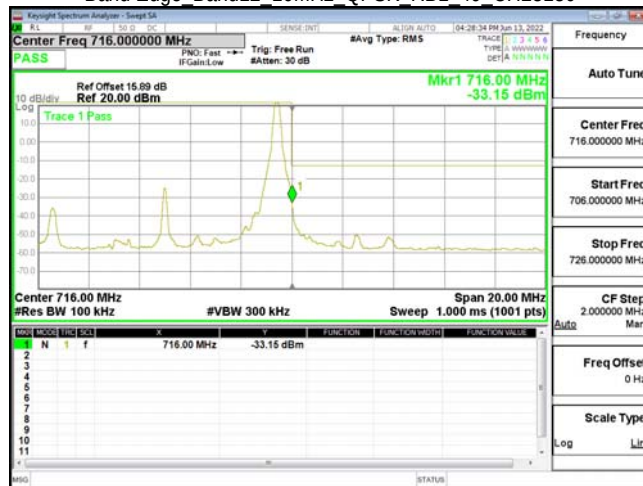
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Band Edge Band12 5MHz QPSK RB25 0 CH23035



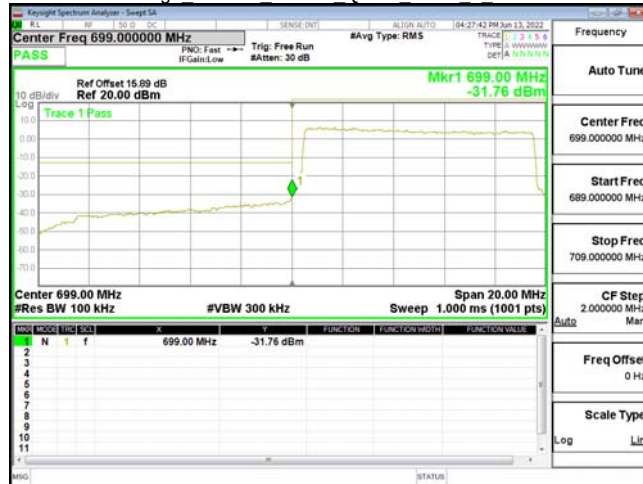
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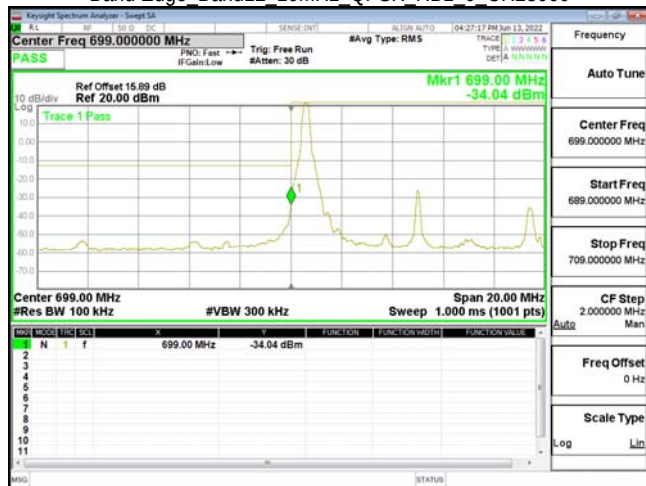
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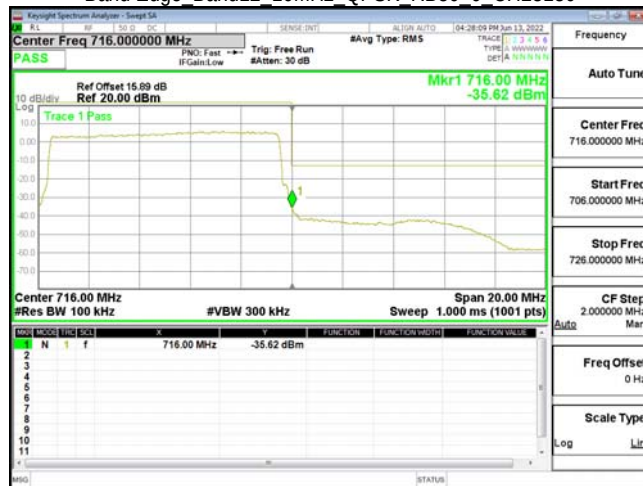
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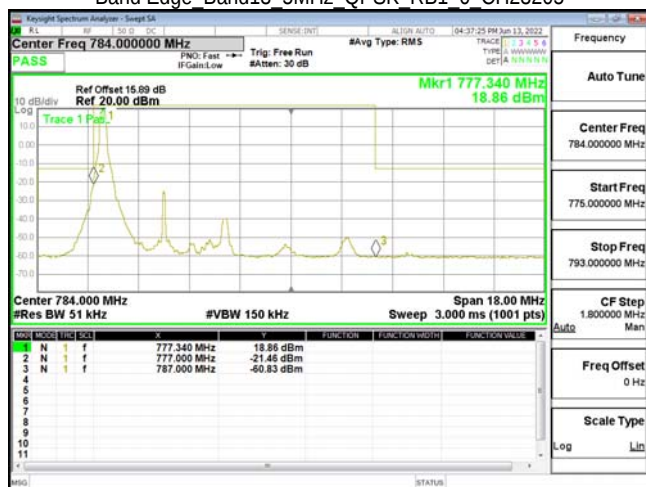


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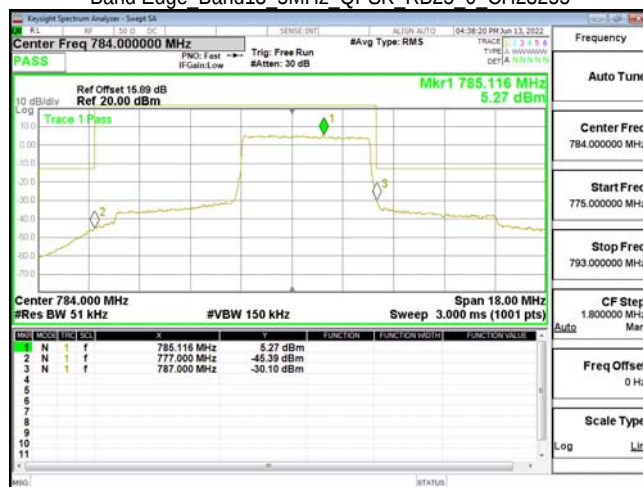
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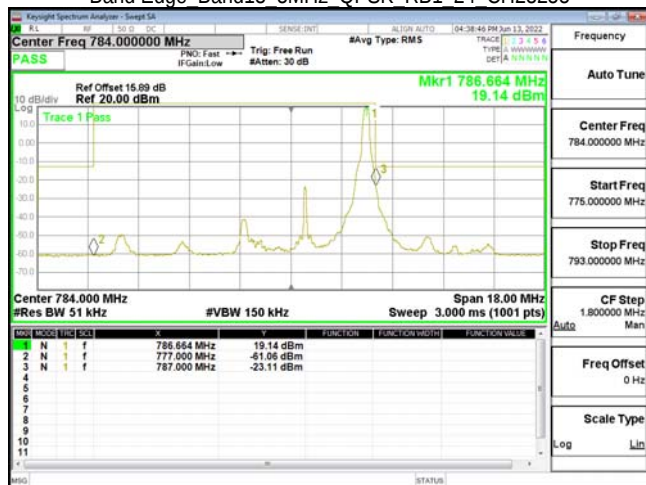
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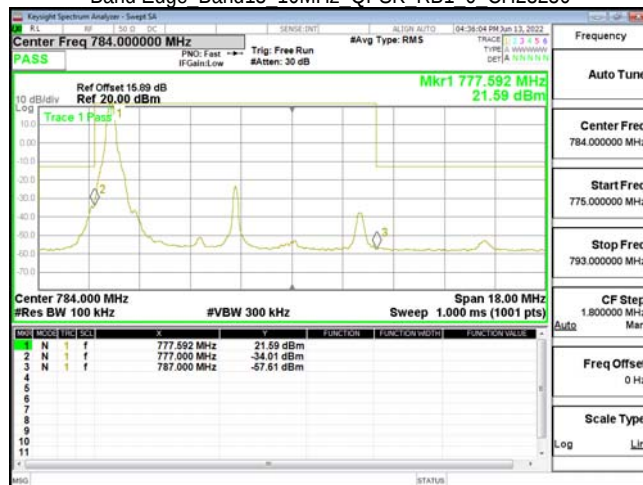
Band Edge Band13 5MHz QPSK RB25 0 CH23255



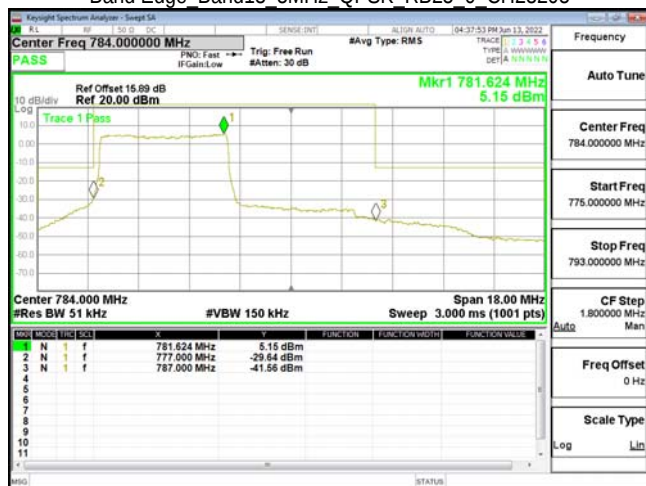
Band Edge Band13 5MHz QPSK RB1 24 CH23255



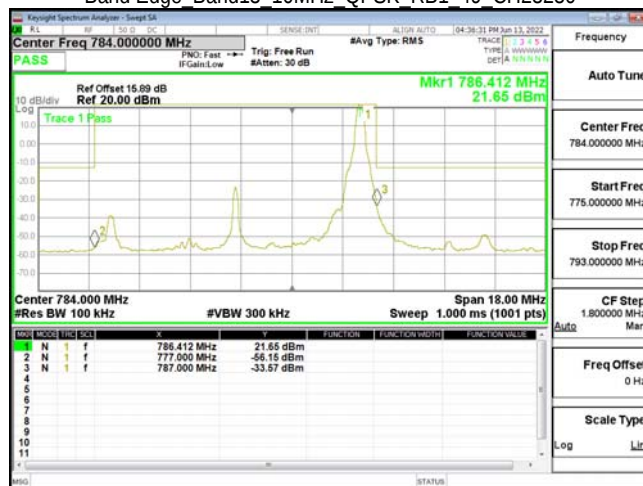
Band Edge Band13 10MHz QPSK RB1 0 CH23230



Band Edge Band13 5MHz QPSK RB25 0 CH23205



Band Edge Band13 10MHz QPSK RB1 49 CH23230

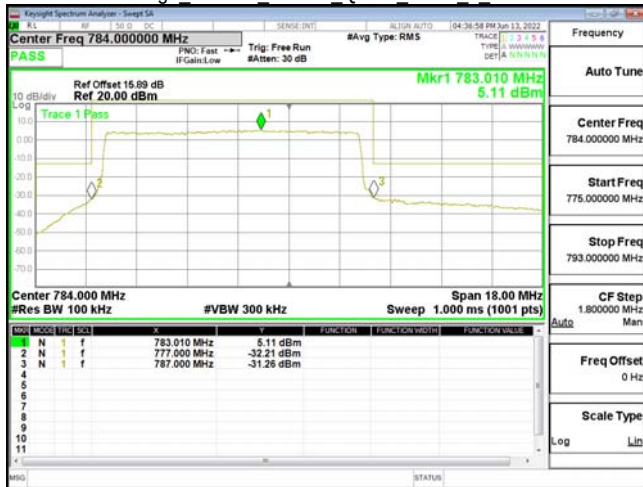


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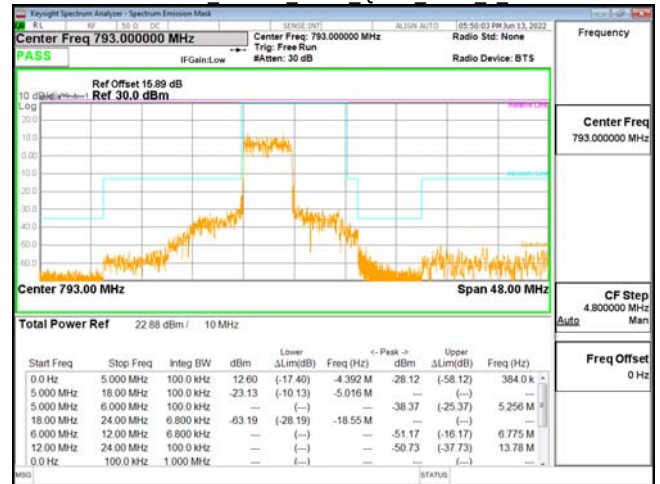
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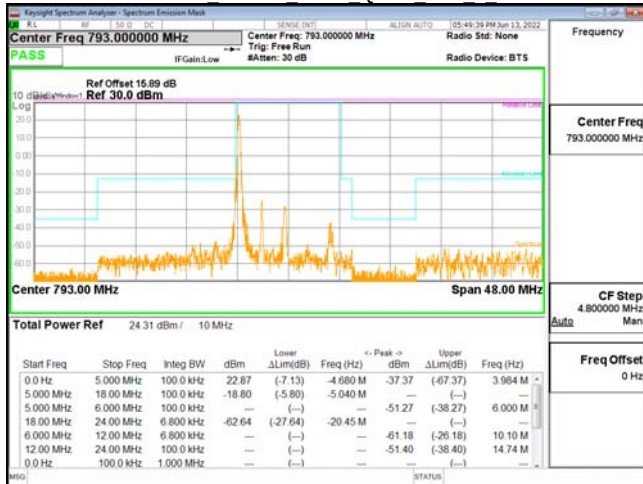
Band Edge Band13 10MHz QPSK RB50 0 CH23230



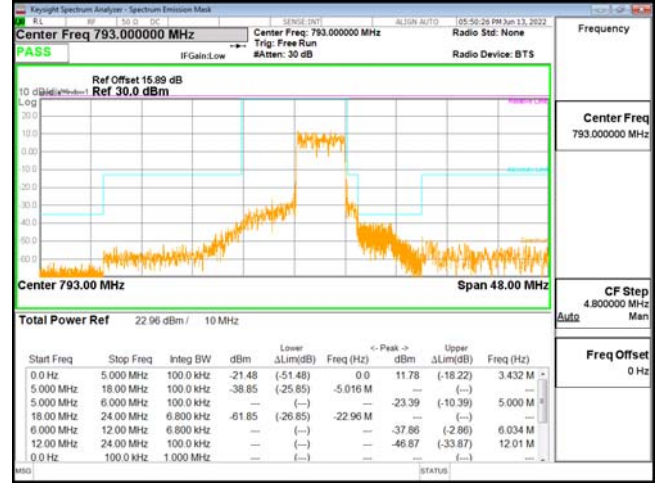
Emission Mask Band14 5MHz QPSK RB25 0 CH23305



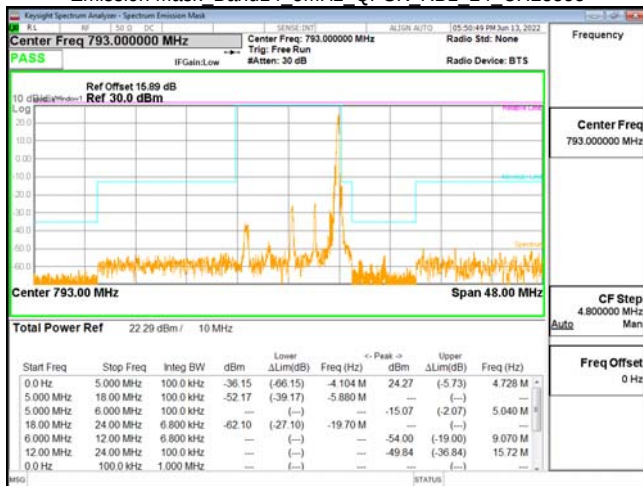
Emission Mask Band14 5MHz QPSK RB1 0 CH23305



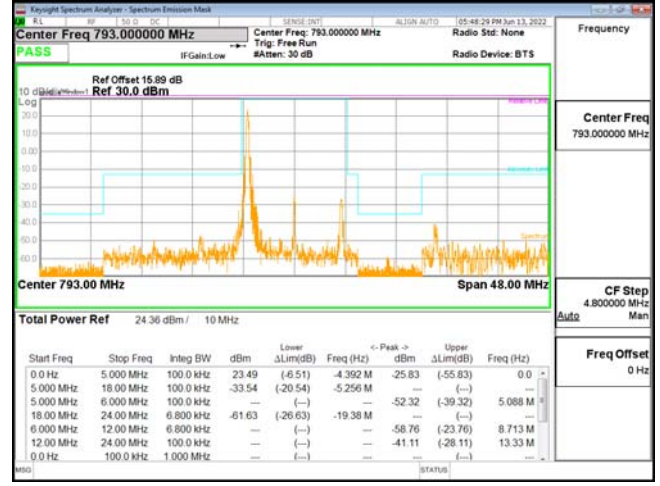
Emission Mask Band14 5MHz QPSK RB25 0 CH23355



Emission Mask Band14 5MHz QPSK RB1 24 CH23355



Emission Mask Band14 10MHz QPSK RB1 0 CH23330

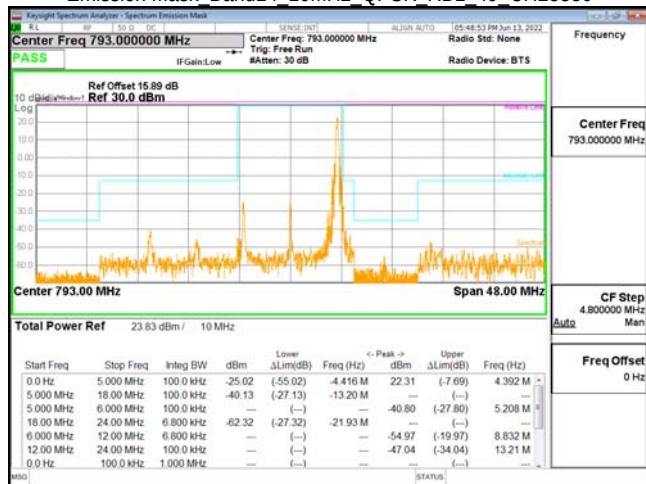


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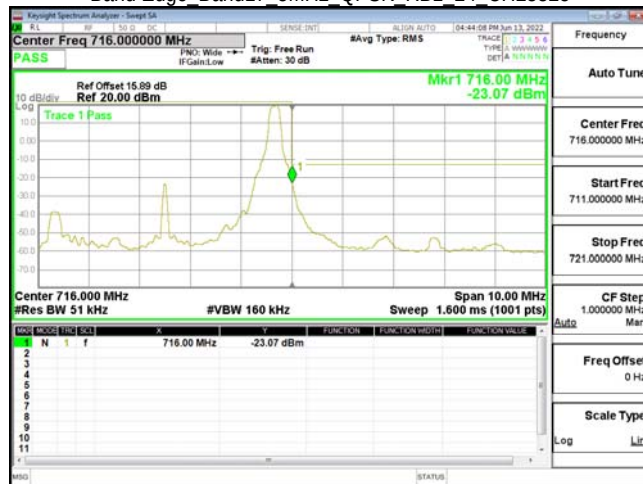
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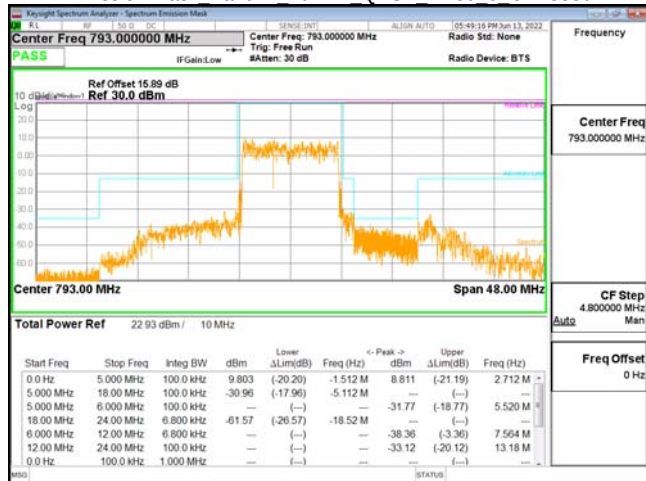
Emission Mask Band14 10MHz QPSK RB1 49 CH23330



Band Edge Band17 5MHz QPSK RB1 24 CH23825



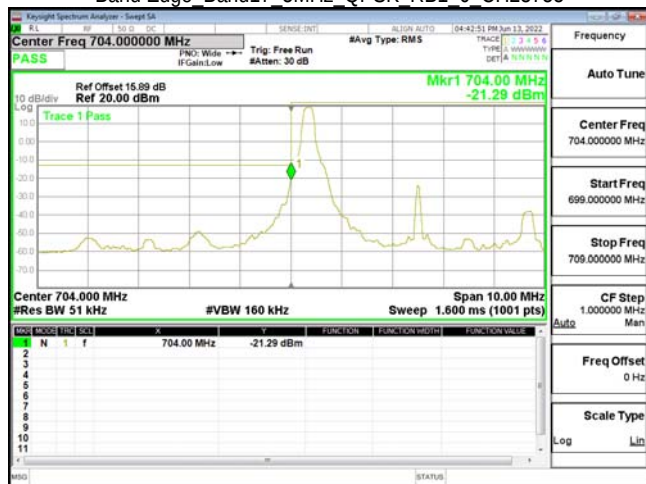
Emission Mask Band14 10MHz QPSK RB50 0 CH23330



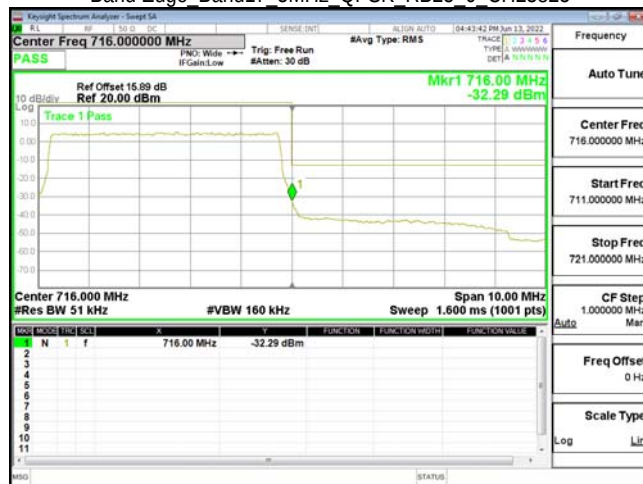
Band Edge Band17 5MHz QPSK RB25 0 CH23755



Band Edge Band17 5MHz QPSK RB1 0 CH23755



Band Edge Band17 5MHz QPSK RB25 0 CH23825

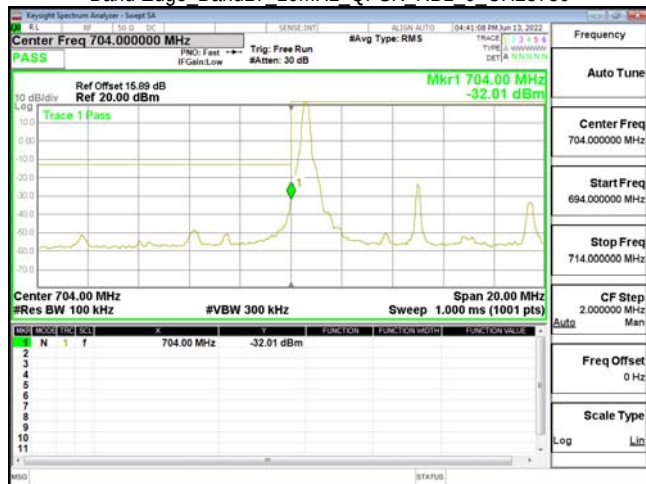


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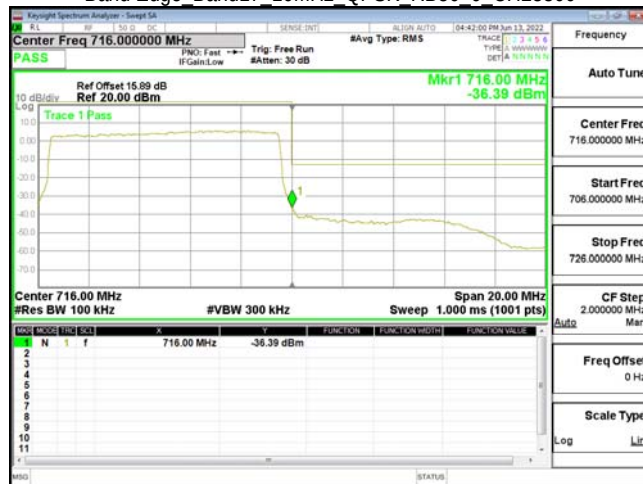
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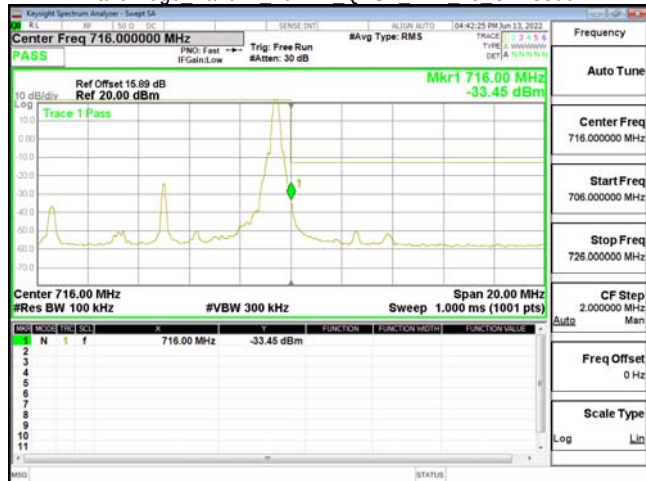
Band Edge Band17 10MHz QPSK RB1 0 CH23780



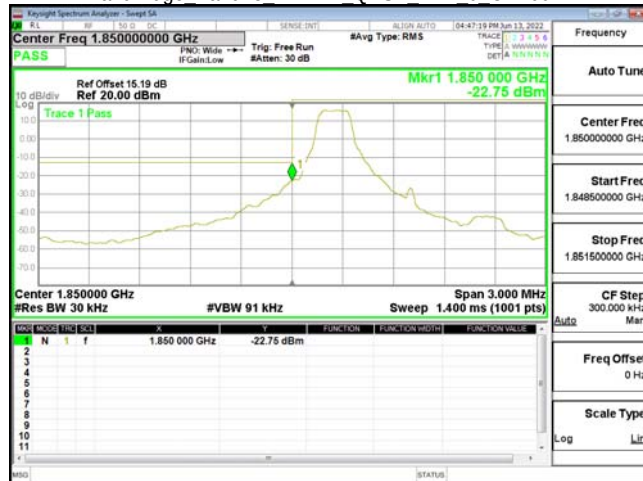
Band Edge Band17 10MHz QPSK RB50 0 CH23800



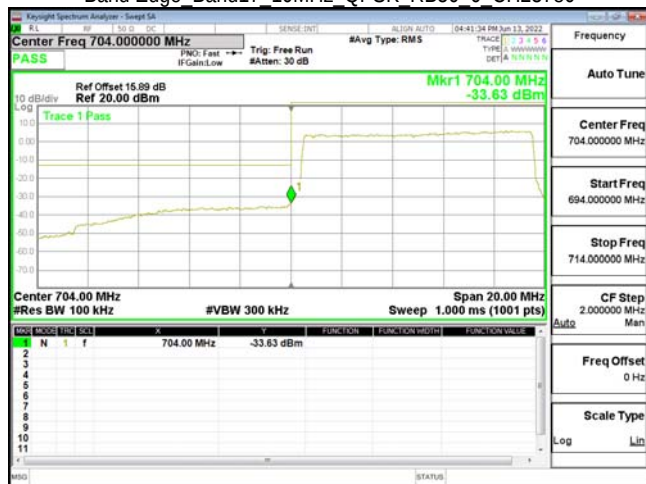
Band Edge Band17 10MHz QPSK RB1 49 CH23800



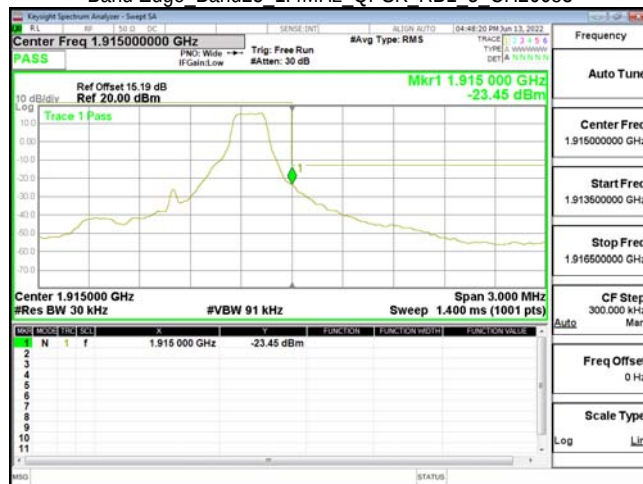
Band Edge Band25 1.4MHz QPSK RB1 0 CH26047



Band Edge Band17 10MHz QPSK RB50 0 CH23780



Band Edge Band25 1.4MHz QPSK RB1 5 CH26683



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