

TEST REPORT

of

FCC Part 2 Subpart J, Part 22 Subpart C/H, Part 24 Subpart E,
Part 27 Subpart C and Part 90 Subpart R/S
ISED RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 7,
RSS-139 Issue 4, RSS-140 Issue 1, RSS-199 Issue 4 and
RSS-Gen Issue 5

FCC ID: YZP-AN2000
IC Certification: 7414C-AN2000

Equipment Under Test : Telematics Module
Model Name : LTD-AN2000
Variant Model Name(s) : -
Applicant : LG Innotek Co., Ltd.
Manufacturer : LG Innotek Co., Ltd.
Date of Receipt : 2025.11.06
Date of Test(s) : 2025.11.17 ~ 2026.03.27
Date of Issue : 2026.04.02

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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- 4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.

We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:


Dave Kim

Technical
Manager:


Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)
 - 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
 - 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
 - Designation number: KR0150

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1.2. Details of Applicant

Applicant : LG Innotek Co., Ltd.
 Address : 30, Magokjungang 10-ro, Gangseo-gu, Seoul, Korea, 07796
 Contact Person : Jeong, In-chang
 Phone No. : +82 62 950 0332

1.3. Details of Manufacturer

Company : Same as applicant
 Address : Same as applicant

1.4. Description of EUT

Kind of Product	Telematics Module	
Model Name	LTD-AN2000	
Serial Number	Conducted: C1 Radiated: R1	
Power Supply	DC 4.0 V	
Rated Power	WCDMA II, IV, V: 24 dBm LTE Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 66, 71: 23 dBm	
Frequency Range	WCDMA II: 1 850 MHz ~ 1 910 MHz WCDMA IV: 1 710 MHz ~ 1 755 MHz WCDMA V: 824 MHz ~ 849 MHz LTE Band 2: 1 850 MHz ~ 1 910 MHz LTE Band 4: 1 710 MHz ~ 1 755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2 500 MHz ~ 2 570 MHz LTE Band 12: 699 MHz ~ 716 MHz	LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1 850 MHz ~ 1 915 MHz LTE Band 26 (Only FCC): 814 MHz ~ 824 MHz LTE Band 26: 824 MHz ~ 849 MHz LTE Band 66: 1 710 MHz ~ 1 780 MHz LTE Band 71: 663 MHz ~ 698 MHz
Modulation Technique	QPSK, 16QAM, 64QAM, 256QAM	
Antenna Type	Ant. 1: Dipole Antenna Ant. 2: Dipole Antenna	
Antenna Gain*	Refer to the clause 1.14	
H/W Version	06	
S/W Version	SMP1750BJKA02-5035573_QB6279223	
FVIN	N/A	

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	10/20/2025	Annual	10/20/2026
Spectrum Analyzer	R&S	FSV30	100955	04/28/2025	Annual	04/28/2026
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual	09/10/2026
Communication Analyzer	Anritsu	MT8821C	6262192291	02/25/2026	Annual	02/25/2027
Temperature Chamber	ESPEC CORP.	SU-242	93013003	09/18/2025	Annual	09/18/2026
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-1	05/23/2025	Annual	05/23/2026
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	64	03/09/2026	Annual	03/09/2027
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-6SS	4	06/09/202	Annual	06/09/2026
High Pass Filter	Wainwright Instrument GmbH	WLKX10-6320-8000-2650 0-40CC	6	10/22/2025	Annual	10/22/2026
BRIDGE COUPLER	MARKI MICROWAVE INC	CBR16-0012	1542	05/15/2025	Annual	05/15/2026
Directional Coupler	KRYTAR	152613	122660	07/02/2025	Annual	07/02/2026
DC Power Supply	Agilent	U8002A	MY49030063	01/19/2026	Annual	01/19/2027
DC Power Supply	R&S	HMP2020	102133	04/28/2025	Annual	04/28/2026
Preamplifier	H.P.	8447F	2944A03909	08/07/2025	Annual	08/07/2026
Preamplifier	R&S	SCU 18F	101058	02/27/2025	Annual	02/27/2026
Preamplifier	R&S	SCU 18F	100959	01/05/2026	Annual	01/05/2027
Preamplifier	TESTEK	TK-PA1840H	130016	03/06/2026	Annual	03/06/2027
Test Receiver	R&S	ESU26	100109	01/21/2026	Annual	01/21/2027
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	10/01/2025	Biennial	10/01/2027
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	03/09/2026	Biennial	03/09/2028
Horn Antenna	R&S	HF906	100326	03/03/2026	Annual	03/03/2027
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	12/05/2025	Annual	12/05/2026
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Turn Table	Innco systems GmbH	DS 1200S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L x W x H (9.6 m x 6.4 m x 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	10/13/2025	Semi-Annual	04/13/2026
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	10/13/2025	Semi-Annual	04/13/2026
Coaxial Cable	Qualwave	QT50P-40-KK-1.5	24270074	10/10/2025	Semi-Annual	04/10/2026
Coaxial Cable	RADIALL	TESTPRO 3	182290	10/10/2025	Semi-Annual	04/10/2026
Coaxial Cable	RADIALL	TESTPRO 3	182291	10/10/2025	Semi-Annual	04/10/2026

Note;

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2, 22, 24, 27 and 90 / ISED RSS-Gen Issue 5, RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 7, RSS-139 Issue 4, RSS-140 Issue 1 and RSS-199 Issue 4			
Section in FCC	Section in ISED	Test Item(s)	Result
§2.1046 §22.913(a)(5) §24.232(c) §27.50(b)(9) §27.50(c)(9)(10) §27.50(d)(4) §27.50(h)(2) §90.542(a)(6) §90.635(b)	RSS-130 Issue 2 4.6 RSS-132 Issue 4 5.4 RSS-133 Issue 7 5.5 RSS-139 Issue 4 5.5 RSS-140 Issue 1 4.3 RSS-199 Issue 4 5.5	E.R.P. / E.I.R.P.	Pass
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(e)(f) §90.691(a)	RSS-130 Issue 2 4.7 RSS-132 Issue 4 5.5 RSS-133 Issue 7 5.6 RSS-139 Issue 4 5.6 RSS-140 Issue 1 4.4 RSS-199 Issue 4 5.6	Radiated Spurious Emissions	Pass
§2.1046	RSS-Gen Issue 5 6.12	Conducted Output Power	Pass
§2.1049	RSS-Gen Issue 5 6.7	Occupied Bandwidth	Pass
§22.913(d) §24.232(d) §27.50(d)(5)	RSS-130 Issue 2 4.6 RSS-132 Issue 4 5.4 RSS-133 Issue 7 5.5 RSS-139 Issue 4 5.5 RSS-140 Issue 1 4.3 RSS-199 Issue 4 5.5	Peak-Average Ratio	Pass
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(c) §90.691(a)	RSS-130 Issue 2 4.7 RSS-132 Issue 4 5.5 RSS-133 Issue 7 5.6 RSS-139 Issue 4 5.6 RSS-140 Issue 1 4.4 RSS-199 Issue 4 5.6	Spurious Emission at Antenna Terminal	Pass
§22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(e) §90.691(a)	RSS-130 Issue 2 4.7 RSS-132 Issue 4 5.5 RSS-133 Issue 7 5.6 RSS-139 Issue 4 5.6 RSS-140 Issue 1 4.4 RSS-199 Issue 4 5.6	Band Edge and Emission Mask	Pass
§2.1055 §22.355 §24.235 §27.54 §90.213(a)	RSS-Gen Issue 5 6.11 RSS-130 Issue 2 4.5 RSS-132 Issue 4 5.3 RSS-133 Issue 7 5.4 RSS-139 Issue 4 5.4 RSS-140 Issue 1 4.2 RSS-199 Issue 4 5.4	Frequency Stability	Pass

1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.7.1. Conducted Test

Offset value (dB) = Directional Coupler (dB) + Cable loss (dB)

1.7.2. Radiation test

- E.I.R.P. (dB m) = Measured level (dB μ V) + Antenna factor (dB/m) + Cable loss (dB) + 20 Log D - 104.8;
where D is the measurement distance in meters.
- E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB)

1.8. Device Capabilities

This device contains the following capabilities;

LTE Band 2 (1 850 MHz ~ 1 910 MHz) is covered by LTE Band 25 (1 850 MHz ~ 1 915 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 2 as well as Band 25.

LTE Band 4 (1 710 MHz ~ 1 755 MHz) is covered by LTE Band 66 (1 710 MHz ~ 1 780 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 4 as well as Band 66.

LTE Band 5 (824 MHz ~ 849 MHz) is covered by LTE Band 26 (824 MHz ~ 849 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 5 as well as Band 26.

LTE Band 17 (704 MHz ~ 716 MHz) is covered by LTE Band 12 (699 MHz ~ 716 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 17 as well as Band 12.

1.9. Manufacturer Declaration

The EUT is equipped with two antennas. Antenna 1 serves as the primary antenna for frequencies below 3 GHz, while providing support as a secondary antenna and enabling MIMO operation for frequency at or above 3 GHz. Antenna 2 acts as the primary for frequencies above 3 GHz.

MIMO operation is supported specifically for NR bands above 3 GHz. For LTE, the device supports SISO operation only. Additionally, in 5G NR MIMO mode, only CP-OFDM is supported.

1.10. Worst Case Configuration and Mode

WCDMA mode, the worst-case is based on the conducted output power measurement investigation results. Output power measurements were measured on RMC, HSDPA, HSUPA, HSPA+ and DC-HSDPA modulation. All testing was performed each modulation with highest power, except radiated spurious emission and emission at antenna terminal were tested only RMC modulation as worst case.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z, and the worst case data is reported.

LTE mode, the worst-case is based on the conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM modulations. All testing was performed each modulation with highest power. However, the spurious radiated emission and spurious at antenna terminal were only performed on bandwidth and RB offset (with RB size 1) with the highest conducted power in QPSK.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z, and the worst case data is reported.

1.11. Measurement Configuration

WCDMA

Test Items	Band	Test Channel			Modulation				
		Low	Mid	High	RMC	HSUPA	HSDPA	DC-HSDPA	HSPA+
Conducted Output Power	Band II	V	V	V	V	V	V	V	V
	Band IV	V	V	V	V	V	V	V	V
	Band V	V	V	V	V	V	V	V	V
Frequency Stability	Band II	-	V	-	V	-	-	-	-
	Band IV	-	V	-	V	-	-	-	-
	Band V	-	V	-	V	-	-	-	-
Occupied Bandwidth	Band II	V	V	V	V	V	-	-	-
	Band IV	V	V	V	V	V	-	-	-
	Band V	V	V	V	V	-	V	-	-
Peak to Average Ratio	Band II	V	V	V	V	V	-	-	-
	Band IV	V	V	V	V	V	-	-	-
	Band V	V	V	V	V	-	V	-	-
Band Edge	Band II	V	-	V	V	V	-	-	-
	Band IV	V	-	V	V	V	-	-	-
	Band V	V	-	V	V	-	V	-	-
Spurious at antenna terminal & Radiated Spurious Emissions	Band II	V	V	V	V	-	-	-	-
	Band IV	V	V	V	V	-	-	-	-
	Band V	V	V	V	V	-	-	-	-

LTE

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Conducted Output Power	25/2	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	66/4	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	*26/5 Part 22	V	V	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	V
	*12/17	V	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	V
	14	V	V	V			V	V			V	V	V	V	V	V	V
	26 Part 90	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	V
Frequency Stability	25/2	-	V	-	-	-	V	-	-	-	V	-	-	-	-	-	V
	66/4	-	V	-	-	-	V	-	-	-	V	-	-	-	-	-	V
	*26/5 Part 22	-	V	-	-	-	V	-	-		V	-	-	-	-	-	V
	7	-	V	-			V	-	-	-	V	-	-	-	-	-	V
	*12/17	-	V	-	-	-	V	-			V	-	-	-	-	-	V
	13	-	V	-			V	-			V	-	-	-	-	-	V
	14	-	V	-			V	-			V	-	-	-	-	-	V
	26 Part 90	-	V	-	-	-	V	-	-		V	-	-	-	-	-	V
	71	-	V	-			V	-	-	-	V	-	-	-	-	-	V
Occupied Bandwidth	25/2	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	V
	66/4	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	V
	*26/5 Part 22	V	V	V	V	V	V	V	V		V	V	-	-	-	-	V
	7	V	V	V			V	V	V	V	V	V	-	-	-	-	V
	*12/17	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
	26 Part 90	V	V	V	V	V	V	V	V		V	V	-	-	-	-	V
	71	V	V	V			V	V	V	V	V	V	-	-	-	-	V
Peak-to-Average Ratio	25/2	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	66/4	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	*26/5 Part 22	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
	*12/17	V	V	V	V	V	V	V			V	V	V	V	-	-	V
	13	V	V	V			V	V			V	V	V	V	-	-	V
	14	V	V	V			V	V			V	V	V	V	-	-	V
	26 Part 90	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

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Band edge	25/2	V	V	V	V	V	V	V	V	V	V	V	-	-	V	-	V
	66/4	V	V	V	V	V	V	V	V	V	V	V	-	-	V	-	V
	*26/5 Part 22	V	V	V	V	V	V	V	V		V	V	-	-	V	-	V
	7	V	V	V			V	V	V	V	V	V	-	-	V	-	V
	*12/17	V	V	V	V	V	V	V			V	V	-	-	V	-	V
	13	V	V	V			V	V			V	V	-	-	V	-	V
	14	V	V	V			V	V			V	V	-	-	V	-	V
	26 Part 90	V	V	V	V	V	V	V	V		V	V	-	-	V	-	V
	71	V	V	V			V	V	V	V	V	V	-	-	V	-	V
Spurious at antenna terminal & Radiated Spurious Emissions	25/2	V	V	V	Worst case												
	66/4	V	V	V	Worst case												
	*26/5 Part 22	V	V	V	Worst case												
	7	V	V	V	Worst case												
	*12/17	V	V	V	Worst case												
	13	V	V	V	Worst case												
	14	V	V	V	Worst case												
	26 Part 90	V	V	V	Worst case												
	71	V	V	V	Worst case												

*B5 is not supported 15M bandwidth.

*B17 is not supported 1.4M/3M bandwidth.

1.12. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
Conducted Output Power	1.43 dB	
Occupied Bandwidth	0.04 MHz	
Conducted Spurious Emissions	1.19 dB	
Peak to Average Ratio	0.65 dB	
Frequency Stability	107 Hz	
Radiated Emission, 9 kHz to 30 MHz	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 GHz	H	5.50 dB
	V	5.10 dB
Radiated Emission, above 1 GHz	H	3.50 dB
	V	3.40 dB

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

1.13. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL006827	2026.04.02	Initial

1.14. Antenna Information

Ant. No.	Ant. Type	Support Band		
		LTE	NR	WCDMA
Ant. 1	Dipole	2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 41, 66, 71	2, 5, 7, 12, 25, 26, 41, 48, 66, 71, 77, 78	II, IV, V
Ant. 2	Dipole	48	48, 77, 78	

Band	Operating Frequency (MHz)	Antenna Peak Gain (dB i)		
		Ant.1	Ant. 2	Ant. 1+2
WCDMA II LTE 25/2 NR 25/2	1 850 ~ 1 915	0.46		
WCDMA IV LTE 66/4 NR 66	1 710 ~ 1 780	-0.37		
WCDMA V LTE 26/5 NR 26/5	824 ~ 849	0.60		
LTE 7 NR 7	2 500 ~ 2 570	0.22		
LTE 12/17 NR 12	699 ~ 716	-4.13		
LTE 13	777 ~ 787	-1.27		
LTE 14	788 ~ 798	0.13		
LTE 26	814 ~ 824	0.60		
LTE 71 NR 71	663 ~ 698	-7.25		
LTE 41 NR 41	2 496 ~ 2 690(FCC) 2 500 ~ 2 690(IC)	0.34		
LTE 48 NR 48	3 550 ~ 3 700	-2.11	-2.11	0.90
NR 77/78_FCC	3 450 ~ 3 550	-2.07	-2.07	0.94
	3 700 ~ 3 980	-2.44	-2.44	0.57
NR 77/78_IC	3 450 ~ 3 900	-2.07	-2.07	0.94
	3 900 ~ 3 980	-2.44	-2.44	0.57

Remark;

1) According to KDB 662911 D01 Multiple Transmitter Output v02r01 F2)d)(i),
 Port 1 + Port 2 Antenna Gain = $10 * \log[(10^{G_1/20} + 10^{G_2/20})^2 / N_{ANT}]$

Where,

G₁ = antenna gain of port 1,
 G₂ = antenna gain of port 2,
 N_{ANT} = the number of antennas

1.15. Emission Designator and Max Power

WCDMA

Band	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Power (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
WCDMA II	RMC	1 852.4	1 907.6	23.66	0.46	24.12	0.258	4M17F9W
	HSUPA			23.64		24.10	0.257	4M18F9W
WCDMA IV	RMC	1 712.4	1 752.6	24.23	-0.37	23.86	0.243	4M19F9W
	HSUPA			23.98		23.61	0.230	4M18F9W
WCDMA V	RMC	826.4	846.6	24.56	0.60	23.01	0.200	4M19F9W
	HSDPA			23.28		21.73	0.149	4M18F9W

LTE

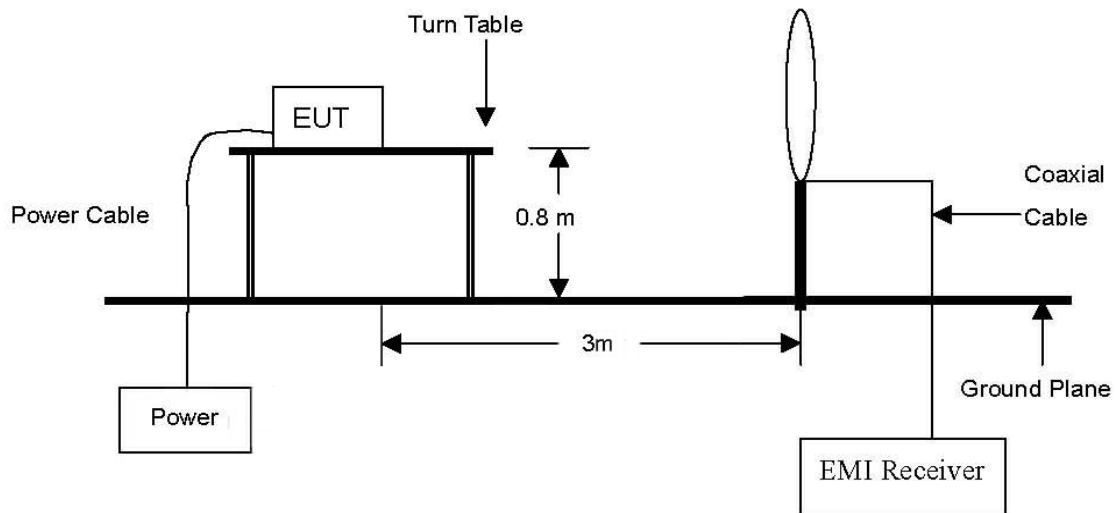
Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
25/2	1.4	QPSK	1 850.7	1 914.3	22.51	0.46	22.97	0.198	1M10G7D
		16QAM			21.81		22.27	0.169	1M12D7D
	3	QPSK	1 851.5	1 913.5	22.57		23.03	0.201	2M69G7D
		16QAM			21.84		22.30	0.170	2M69D7D
	5	QPSK	1 852.5	1 912.5	22.55		23.01	0.200	4M51G7D
		16QAM			21.84		22.30	0.170	4M51D7D
	10	QPSK	1 855.0	1 910.0	22.55		23.01	0.200	8M94G7D
		16QAM			21.84		22.30	0.170	8M92D7D
	15	QPSK	1 857.5	1 907.5	22.52		22.98	0.199	13M5G7D
		16QAM			21.81		22.27	0.169	13M5D7D
	20	QPSK	1 860.0	1 905.0	22.51		22.97	0.198	17M9G7D
		16QAM			21.76		22.22	0.167	17M9D7D
66/4	1.4	QPSK	1 710.7	1 779.3	23.01	-0.37	22.64	0.184	1M10G7D
		16QAM			22.33		21.96	0.157	1M10D7D
	3	QPSK	1 711.5	1 778.5	22.99		22.62	0.183	2M69G7D
		16QAM			22.38		22.01	0.159	2M69D7D
	5	QPSK	1 712.5	1 777.5	23.05		22.68	0.185	4M52G7D
		16QAM			22.30		21.93	0.156	4M52D7D
	10	QPSK	1 715.0	1 775.0	23.01		22.64	0.184	8M94G7D
		16QAM			22.37		22.00	0.158	8M94D7D
	15	QPSK	1 717.5	1 772.5	23.04		22.67	0.185	13M5G7D
		16QAM			22.32		21.95	0.157	13M5D7D
	20	QPSK	1 720.0	1 770.0	23.01		22.65	0.184	18M0G7D
		16QAM			22.32		21.95	0.157	17M9D7D
26/5 Part 22	1.4	QPSK	824.7	848.3	23.52	0.60	21.97	0.157	1M09G7D
		16QAM			22.80		21.25	0.133	1M11D7D
	3	QPSK	825.5	847.5	23.55		22.00	0.158	2M69G7D
		16QAM			22.71		21.16	0.131	2M70D7D
	5	QPSK	826.5	846.5	23.55		22.00	0.158	4M52G7D
		16QAM			22.86		21.31	0.135	4M52D7D
	10	QPSK	829.0	844.0	23.53		21.98	0.158	8M94G7D
		16QAM			22.79		21.24	0.133	8M94D7D
	15	QPSK	831.5	841.5	23.56		22.01	0.159	13M5G7D
		16QAM			22.78		21.23	0.133	13M4D7D
7	5	QPSK	2 502.5	2 567.5	22.39	0.22	22.61	0.182	4M53G7D
		16QAM			21.66		21.88	0.154	4M52D7D
	10	QPSK	2 505.0	2 565.0	22.33		22.55	0.180	8M94G7D
		16QAM			21.70		21.92	0.156	8M94D7D
	15	QPSK	2 507.5	2 562.5	22.37		22.59	0.182	13M5G7D
		16QAM			21.68		21.90	0.155	13M5D7D
	20	QPSK	2 510.0	2 560.0	22.40		22.62	0.183	18M0G7D
		16QAM			21.79		22.01	0.159	17M9D7D

Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator	
12	1.4	QPSK	699.7	715.3	23.37	-4.13	17.09	0.051	1M10G7D	
		16QAM			22.66		16.38	0.043	1M10D7D	
	3	QPSK	700.5	714.5	23.32		17.04	0.051	2M68G7D	
		16QAM			22.75		16.47	0.044	2M70D7D	
	12/17	5	QPSK	701.5	713.5		23.21	16.93	0.049	4M53G7D
			16QAM				22.66	16.38	0.043	4M51D7D
10		QPSK	704.0	711.0	23.52		17.24	0.053	8M94G7D	
		16QAM			22.65		16.37	0.043	8M97D7D	
13	5	QPSK	779.5	784.5	23.69	-1.27	20.27	0.106	4M52G7D	
		16QAM			22.95		19.53	0.090	4M51D7D	
	10	QPSK	782	23.57	20.15		0.104	8M90G7D		
		16QAM		22.77	19.35		0.086	8M94D7D		
14	5	QPSK	790.5	795.5	23.77	0.13	21.75	0.150	4M52G7D	
		16QAM			23.15		21.13	0.130	4M51D7D	
	10	QPSK	793.0	23.84	21.82		0.152	8M92G7D		
		16QAM		23.11	21.09		0.129	8M94D7D		
26 Part 90	1.4	QPSK	814.7	823.3	23.37	0.60	21.82	0.152	1M10G7D	
		16QAM			22.59		21.04	0.127	1M10D7D	
	3	QPSK	815.5	822.5	23.37		21.82	0.152	2M68G7D	
		16QAM			22.68		21.13	0.130	2M68D7D	
	5	QPSK	816.5	821.5	23.41		21.86	0.153	4M52G7D	
		16QAM			22.66		21.11	0.129	4M51D7D	
	10	QPSK	819	23.30	21.75		0.150	8M94G7D		
		16QAM		22.63	21.08		0.128	8M92D7D		
71	5	QPSK	665.5	695.5	23.01	-7.25	13.61	0.023	4M53G7D	
		16QAM			22.41		13.01	0.020	4M52D7D	
	10	QPSK	668	693	23.01		13.61	0.023	9M10G7D	
		16QAM			22.32		12.92	0.020	8M94D7D	
	15	QPSK	670.5	690.5	23.04		13.64	0.023	13M5G7D	
		16QAM			22.32		12.92	0.020	13M5D7D	
	20	QPSK	673	688	23.11		13.71	0.023	18M0G7D	
		16QAM			22.32		12.92	0.020	18M0D7D	

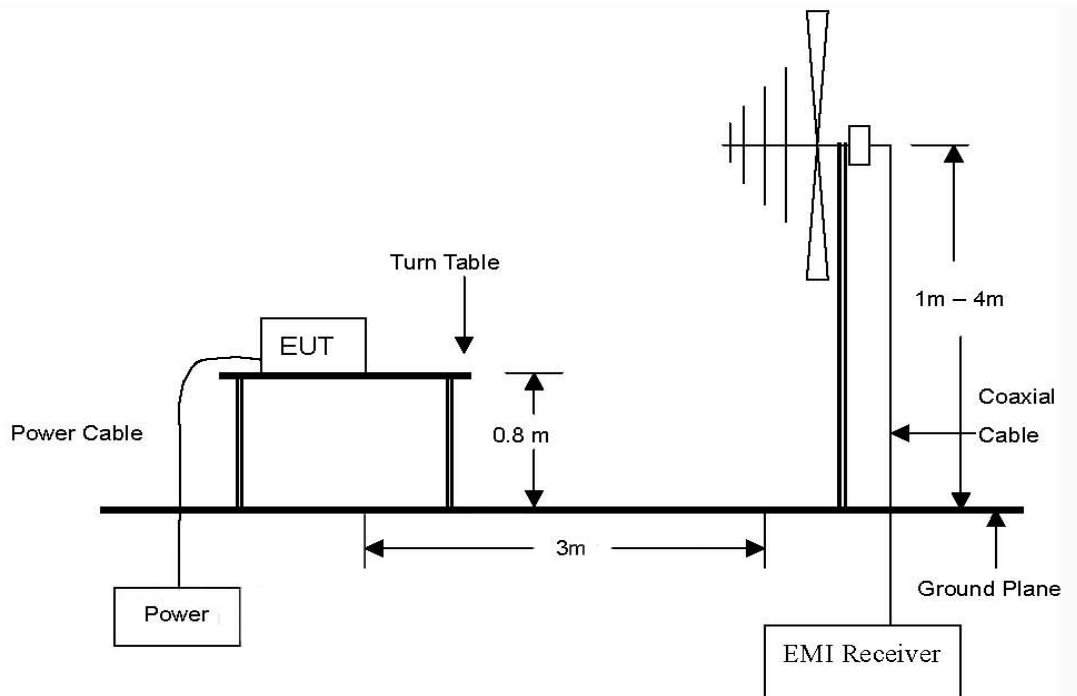
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1. Test setup

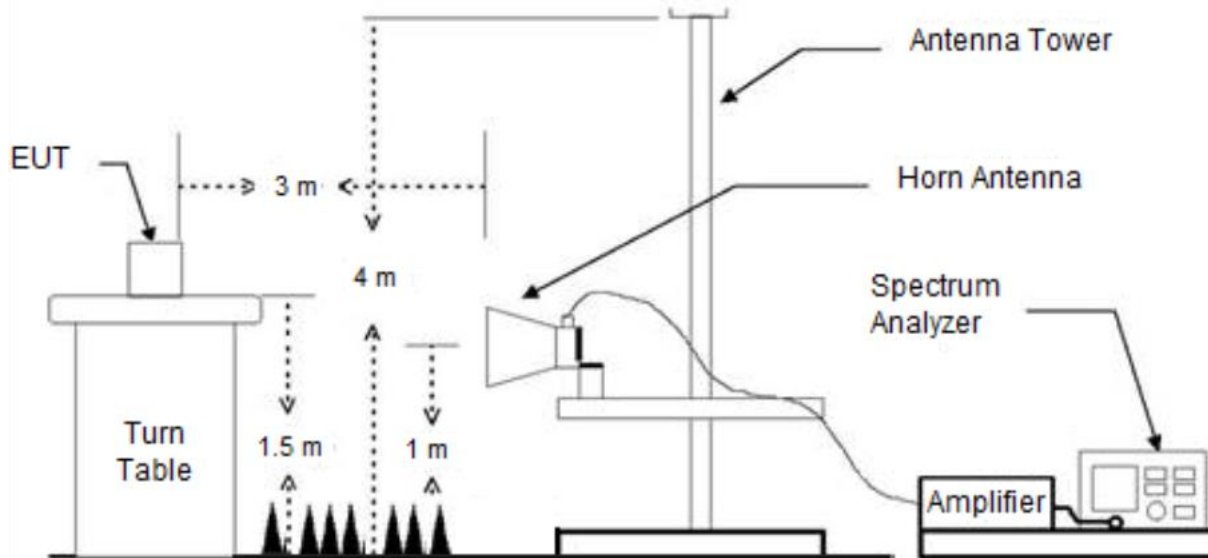
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.



2.2. Limit

2.2.1. Limit of E.R.P. / E.I.R.P.

FCC

- §22.913(a)(5), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
- §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
- §27.50(b)(9), control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands and fixed stations transmitting in the 787-788 MHz and 805-806 MHz bands are limited to 30 watts ERP.
- §27.50(c)(9), control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.
- §27.50(c)(10), portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.
- §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1 710-1 755 MHz band and mobile and portable stations operating in the 1 695-1 710 MHz and 1 755-1 780 MHz bands are limited to 1 watt EIRP.
- §27.50(h)(2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.
- §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.
- §90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20 dBW).

IC

- RSS-130 Issue 2

4.6.3, the e.r.p. shall not exceed 30 watts for mobile equipment and outdoor fixed subscriber equipment. The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment.

For base and fixed equipment other than fixed subscriber equipment, refer to SRSP-518 for the e.i.r.p. limits.

- RSS-132 Issue 4

5.4, the transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment. The effective isotropic radiated power (e.i.r.p.) shall not exceed the limits specified in SRSP-503 for base station equipment.

- RSS-133 Issue 7

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

AAS equipment with eight antenna elements or less can demonstrate compliance with the e.i.r.p limit specified for non-AAS equipment in table 2, instead of the TRP limit.

Table 2: Maximum power spectral density of equipment

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

In addition, the peak-to-average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal corresponding to the highest PAPR during periods of continuous transmission

- RSS-139 Issue 4

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

Table 3: Maximum power of equipment in the band 1 710-1 780 MHz

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

- RSS-140 Issue 1

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.

Fixed and base station equipment shall comply with the e.r.p. limits in SRSP-540.

In addition, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

- RSS-199 Issue 4

5.5, the maximum output power of the equipment shall comply with the limits specified in table 3. In this table, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

Subscriber equipment other than fixed subscriber equipment shall not exceed an e.i.r.p of 2W per channel bandwidth.

Fixed subscriber equipment shall not exceed the following:

- I. conducted power of 2W per channel bandwidth for all ports
- II. e.i.r.p of 40 W per channel bandwidth

The maximum power limits for fixed station and base station are provided in Table 3. The limits in this RSS are specified for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-517 for more deployment details in the band 2 500-2 690 MHz.

Table 3: Maximum power of fixed station and base station in the band 2 500-2 690 MHz

Equipment type	Maximum power
Non-AAS fixed station and base station	e.i.r.p of 1 640 W / MHz
AAS fixed station and base station	TRP of 43 dB m / MHz

2.2.2. Limit of Radiated Spurious Emissions

FCC

- §22.917(a), 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.
- §24.238(a), 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.
- §27.53(c)(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.
- §27.53(f), For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1 559-1 610 MHz shall be limited to -70 dB W/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dB W EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.
- §27.53(g), the power of any emission outside a 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, by at least $43 + 10 \log (P)$ dB.
- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 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.
- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10} (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10} (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10} (P)$ 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 $43 + 10 \log_{10} (P)$ dB on all frequencies between 2 490.5 MHz and 2 496 MHz and $55 + 10 \log_{10} (P)$ dB at or below 2 490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2 495 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.
- §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.
 - (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
 - (4) Compliance with the provisions of paragraph (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
 - (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

- §90.543(f), For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

- §90.691(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.

IC

- RSS-130 Issue 2

4.7.1, 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 (dB W), 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.

4.7.2, 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:

a) 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 (dB W), by at least:

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

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

b) The e.i.r.p. in the band 1 559-1 610 MHz shall not exceed -70 dB W/MHz for wideband signal and -80 dB W for discrete emission with bandwidth less than 700 Hz.

- RSS-132 Issue 4

5.5, Equipment shall meet the unwanted emission limits specified 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 below the transmitter output power P (dB W) by at least $43 + 10 \log(p)$ dB.

(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 below the transmitter output power P (dB W) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kHz is required.

- RSS-133 Issue 7

5.6, Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen. Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range. For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤1	-13 dB m/(1% of OBW)
>1	-13 dB m/MHz

- RSS-139 Issue 4

5.6, Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency block group	Unwanted emission limit
≤ 1 MHz	-13 dB m/(1% of OB)*
> 1 MHz	-13 dB m

* OB is the occupied bandwidth

- RSS-140 Issue 1

4.4, The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

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.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

- RSS-199 Issue 4

5.6, unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 MHz band immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for fixed stations, base stations, and fixed subscriber equipment, and 2 % for subscriber equipment other than fixed subscriber equipment. Beyond this 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.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

Table 4: Unwanted emission limits for fixed station, base station and fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (MHz)	Unwanted emission limit
≤1	-13 dB m/(1% of OB*)
>1	-13 dB m/MHz

* OB is the occupied bandwidth

Table 5: Unwanted emission limits for subscriber equipment other than fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (MHz)	Unwanted emission limit
0-1	-10 dB m/(2% of OB*)
1-5	-10 dB m/MHz
5-X**	-13 dB m/MHz
≥X	-25 dB m/MHz

* OB is the occupied bandwidth

** X is 6 MHz or the equipment occupied bandwidth, whichever is greater

In addition to complying with the limits in table 5, subscriber equipment other than fixed subscriber equipment shall not exceed -13 dB m/MHz on all frequencies between 2 490.5 MHz and 2 496 MHz, and -25 dB m/MHz at or below 2 490.5 MHz.

2.3. Test Procedure

2.3.1. E.R.P. or E.I.R.P. from conducted RF output power

According to subclause 5.2.5.5 of ANSI C63.26-2015 E.R.P. and E.I.R.P. are defined as the product of the power supplied to the antenna and its gain.

The relevant equation for determining the E.R.P. or E.I.R.P. from the conducted RF output power measured using the guidance provided above is:

$$\text{E.R.P. or E.I.R.P.} = P_{\text{Meas}} + G_T$$

where:

E.R.P. or E.I.R.P. = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

2.3.2. Radiated Spurious Emissions

The test based on ANSI C63.26-2015 and KDB 971168 D01 Power Meas License Digital Systems v03r01.

1. On a test site, the EUT shall be placed at 0.8 m or 1.5 m height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. Radiated spurious emissions measurement method was set as follows:
RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz, VBW $\geq 3 \times$ RBW,
Detector = RMS, trace mode = max hold, per the guidelines of KDB 971168 D01 Power Meas License Digital Systems v03r01.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
11. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
12. The measurement shall be repeated with the test antenna orientated for horizontal polarization.

2.4. Test results

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 %

2.4.1. E.R.P. / E.I.R.P.

WCDMA

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Antenna Gain (dB i)	Maximum E.I.R.P. (dB m)	Maximum E.I.R.P. (W)	Maximum E.R.P. (dB m)	Maximum E.R.P. (W)	Limit
WCDMA II	1 850 ~ 1 910	23.66	0.232	0.46	24.12	0.258			2 W E.I.R.P.
WCDMA IV	1 710 ~ 1 755	24.23	0.265	-0.37	23.86	0.243			1 W E.I.R.P.
WCDMA V	824 ~ 849	24.56	0.286	0.60	25.16	0.328	23.01	0.200	7 W E.R.P.

LTE

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Antenna Gain (dB i)	Maximum E.I.R.P. (dB m)	Maximum E.I.R.P. (W)	Maximum E.R.P. (dB m)	Maximum E.R.P. (W)	Limit
25/2	1 850 ~ 1 910	22.57	0.181	0.46	23.03	0.201			2 W E.I.R.P.
66/4	1 710 ~ 1 780	23.05	0.202	-0.37	22.68	0.185			1 W E.I.R.P.
26/5 Part 22	824 ~ 849	23.56	0.227	0.60	24.16	0.261	22.01	0.159	7 W E.R.P.
7	2 500 ~ 2 570	22.40	0.174	0.29	22.69	0.186			2 W E.I.R.P.
12/17	699 ~ 716	23.52	0.225	-4.13	19.39	0.087	17.24	0.053	30 W E.R.P.
13	777 ~ 787	23.69	0.234	-1.27	22.42	0.175	20.27	0.106	30 W E.R.P.
14	788 ~ 798	23.84	0.242	0.13	23.97	0.249	21.82	0.152	30 W E.R.P.
26 Part 90	814 ~ 824	23.41	0.219	0.60	24.01	0.252	21.86	0.153	100 W
71	663 ~ 698	23.11	0.205	0.29	23.40	0.219	21.25	0.133	3 W E.R.P.

Remark;

1. E.I.R.P. (dB m) = Maximum Conducted Power (dB m) + Antenna Gain (dB i)
2. E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.

2.4.2. Radiated spurious emissions

WCDMA II

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 852.4 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 907.6 MHz)									
3 816.91	40.85	H	32.30	-30.26	42.89	-95.26	<u>-52.37</u>	-13	39.37
Above 3 900.00	Not detected	-	-	-	-	-	-	-	-

WCDMA IV

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 712.4 MHz)									
3 426.58	42.55	V	31.00	-31.11	42.44	-95.26	<u>-52.82</u>	-13	39.82
Above 3 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 732.6 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 752.6 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

WCDMA V

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (826.4 MHz)									
1 650.48	62.75	H	25.71	-34.09	54.37	-97.41	-43.04	-13	30.04
2 482.78	48.30	H	28.33	-32.41	44.22	-97.41	-53.19	-13	40.19
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.6 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (846.6 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 25/2 (3 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 851.5 MHz)									
3 700.53	41.26	H	32.00	-30.25	43.01	-95.26	-52.25	-13	39.25
3 700.53	43.27	V	32.00	-30.25	45.02	-95.26	-50.24	-13	37.24
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 882.5 MHz)									
3 762.33	41.19	H	32.22	-30.27	43.14	-95.26	-52.12	-13	39.12
3 762.48	43.38	V	32.22	-30.27	45.33	-95.26	-49.93	-13	36.93
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 913.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 66/4 (5 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 712.5 MHz)									
3 424.89	43.79	H	31.00	-31.14	43.65	-95.26	-51.61	-13	38.61
3 425.15	46.01	V	31.00	-31.14	45.87	-95.26	-49.39	-13	36.39
Above 3 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 745.0 MHz)									
3 490.12	47.65	H	31.08	-30.34	48.39	-95.26	-46.87	-13	33.87
3 490.08	45.58	V	31.08	-30.34	46.32	-95.26	-48.94	-13	35.94
Above 3 500.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 777.5 MHz)									
3 544.94	45.90	H	31.19	-30.36	46.73	-95.26	-48.53	-13	35.53
3 555.08	45.83	V	31.22	-30.33	46.72	-95.26	-48.54	-13	35.54
Above 3 600.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26/5_Part 22 (15 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (831.5 MHz)									
1 649.67	50.09	H	25.70	-34.10	41.69	-97.41	-55.72	-13	42.72
Above 1 700.00	Not detected	—	—	—	—	—	—	—	—
High Channel (841.5 MHz)									
1 669.74	56.37	H	26.09	-34.04	48.42	-97.41	-48.99	-13	35.99
2 504.62	60.76	V	28.52	-32.30	56.98	-97.41	-40.43	-13	27.43
Above 2 600.00	Not detected	—	—	—	—	—	—	—	—

LTE band 7 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 MHz)									
7 503.24	44.01	H	36.09	-25.32	54.78	-95.26	-40.48	-25	15.48
7 503.04	53.59	V	36.09	-25.32	64.36	-95.26	-30.90	-25	5.90
10 004.55	44.92	V	37.70	-20.34	62.28	-95.26	-32.98	-25	7.98
Above 10 100.00	Not detected	—	—	—	—	—	—	—	—
Middle Channel (2 535.0 MHz)									
7 578.31	43.51	H	36.00	-25.01	54.50	-95.26	-40.76	-25	15.76
7 578.35	49.29	V	36.00	-25.01	60.28	-95.26	-34.98	-25	9.98
10 104.40	45.09	H	37.70	-20.66	62.13	-95.26	-33.13	-25	8.13
10 104.33	48.18	V	37.70	-20.66	65.22	-95.26	-30.04	-25	5.04
Above 10 200.00	Not detected	—	—	—	—	—	—	—	—
High Channel (2 560.0 MHz)									
7 653.16	49.87	V	35.90	-23.78	61.99	-95.26	-33.27	-25	8.27
Above 7 700.00	Not detected	—	—	—	—	—	—	—	—

LTE band 12/17 (10 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (704.0 MHz)									
1 416.81	43.51	V	25.00	-34.26	34.25	-97.41	-63.16	-13	50.16
4 250.71	44.23	V	32.10	-29.47	46.86	-97.41	-50.55	-13	37.55
Above 4 300.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (707.5 MHz)									
1 423.90	45.09	H	25.00	-34.26	35.83	-97.41	-61.58	-13	48.58
3 559.60	41.95	V	31.24	-30.34	42.85	-97.41	-54.56	-13	41.56
Above 3 600.00	Not detected	-	-	-	-	-	-	-	-
High Channel (711.0 MHz)									
4 292.40	40.41	H	32.10	-28.69	43.82	-97.41	-53.59	-13	40.59
Above 4 300.00	Not detected	-	-	-	-	-	-	-	-

LTE band 13 (5 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P./E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (779.5 MHz)									
4 664.15	41.32	H	32.16	-29.30	44.18	-97.41	-53.23	-13	40.23
Above 4 700.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (782.0 MHz)									
3 109.39	45.40	V	30.20	-31.53	44.07	-97.41	-53.34	-13	40.34
Above 3 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (784.5 MHz)									
4 664.09	42.74	V	32.16	-29.30	45.60	-97.41	-51.81	-13	38.81
Above 4 700.00	Not detected	-	-	-	-	-	-	-	-

LTE band 14 (10 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P./E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (782.0 MHz)									
1 577.29	59.08	H	25.31	-34.05	50.34	-95.26	-44.92	-40	4.92
1 577.35	43.37	V	25.31	-34.05	34.63	-95.26	-60.63	-40	20.63
2 365.77	45.78	H	28.13	-32.49	41.42	-97.41	-55.99	-13	42.99
Above 2 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26_Part 90 (5 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P./E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (816.5 MHz)									
2 455.91	52.43	H	28.06	-32.45	48.04	-97.41	-49.37	-13	36.37
2 456.02	55.09	V	28.06	-32.45	50.70	-97.41	-46.71	-13	33.71
4 093.31	42.57	H	32.01	-30.02	44.56	-97.41	-52.85	-13	39.85
4 912.14	41.01	V	33.32	-28.18	46.15	-97.41	-51.26	-13	38.26
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (819.0 MHz)									
1 642.55	43.32	H	25.66	-34.11	34.87	-97.41	-62.54	-13	49.54
2 463.36	54.32	H	28.13	-32.46	49.99	-97.41	-47.42	-13	34.42
2 463.41	56.94	V	28.13	-32.46	52.61	-97.41	-44.80	-13	31.80
4 105.88	42.98	H	32.01	-30.00	44.99	-97.41	-52.42	-13	39.42
Above 4 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (821.5 MHz)									
2 471.12	48.35	H	28.21	-32.48	44.08	-97.41	-53.33	-13	40.33
2 470.96	50.03	V	28.21	-32.48	45.76	-97.41	-51.65	-13	38.65
4 118.22	40.02	H	32.04	-29.90	42.16	-97.41	-55.25	-13	42.25
Above 4 200.00	Not detected	-	-	-	-	-	-	-	-

LTE band 71 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (673.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (680.5 MHz)									
2 068.25	48.47	V	27.84	-32.80	43.51	-97.41	<u>-53.90</u>	-13	40.90
Above 2 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (688.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dBμV/m) = Measured Level (dBμV) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dBμV/m) + CF (dB).
4. E.R.P. (dB m) = E (dBμV/m) + CF (dB) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to KDB 971168 D01 v03r01 5.8.4.
6. The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

3. Conducted Output Power

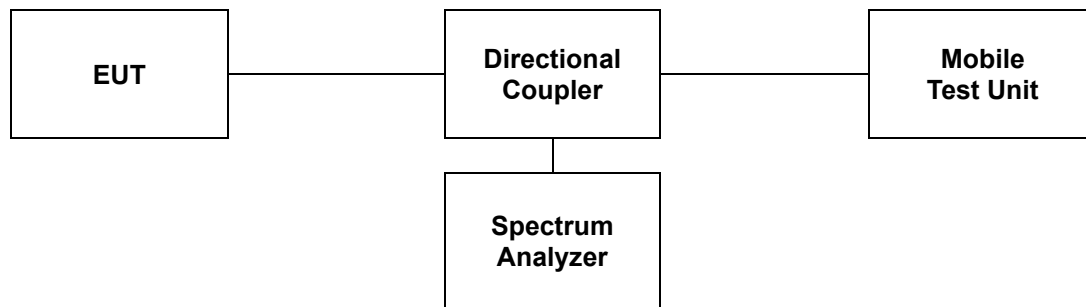
3.1. Limit

CFR 47, Section FCC §2.1046 and IC RSS-Gen Issue 5 6.12.

3.2. Test Procedure

Output power shall be measured at the RF output terminals for all configurations.

1. The RF output of the transmitter was connected to the input of the mobile test unit in order to establish communication with the EUT.
2. The EUT was set up for the max. output power with pseudo random data modulation by using mobile test unit parameters.
3. This EUT was tested under all configurations and the highest power was investigated and reported.



3.3. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 %

WCDMA II													
Ant. Gain				0.46 dB i									
Limit: 2W EIRP													
Mode	3GPP 34.121 Subtest	9262		9400		9538		E.I.R.P					
		(1 852.4 MHz)		(1 880.0 MHz)		(1 907.6 MHz)							
		(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)				
Release 99	12.2 Kbps RMC	23.64	0.231	23.65	0.232	23.66	0.232	24.12	0.258				
HSDPA	Subtest 1	22.92	0.196	22.93	0.196	22.95	0.197	24.10	0.257				
	Subtest 2	22.67	0.185	22.68	0.185	22.71	0.187						
	Subtest 3	21.65	0.146	21.67	0.147	21.69	0.148						
	Subtest 4	21.98	0.158	21.99	0.158	22.02	0.159						
HSUPA	Subtest 1	23.48	0.223	23.61	0.230	23.64	0.231			24.10	0.257		
	Subtest 2	21.76	0.150	21.64	0.146	21.73	0.149						
	Subtest 3	23.35	0.216	23.57	0.228	23.59	0.229						
	Subtest 4	21.68	0.147	21.85	0.153	21.88	0.154						
	Subtest 5	22.59	0.182	22.68	0.185	22.72	0.187						
DC-HSDPA	Subtest 1	22.89	0.195	22.91	0.195	22.94	0.197					24.10	0.257
	Subtest 2	22.65	0.184	22.67	0.185	22.72	0.187						
	Subtest 3	21.62	0.145	21.63	0.146	21.66	0.147						
	Subtest 4	21.94	0.156	21.96	0.157	22.01	0.159						
HSPA+		21.96	0.157	21.95	0.157	22.02	0.159						

WCDMA IV													
Ant. Gain				-0.37 dB i									
Limit: 1W EIRP													
Mode	3GPP 34.121 Subtest	1312		1413		1513		E.I.R.P					
		(1 712.4 MHz)		(1 732.6 MHz)		(1 752.6 MHz)							
		(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)				
Release 99	12.2 Kbps RMC	23.83	0.242	23.95	0.248	24.23	0.265	23.86	0.243				
HSDPA	Subtest 1	23.01	0.200	23.19	0.208	23.49	0.223	23.61	0.230				
	Subtest 2	22.72	0.187	22.93	0.196	23.23	0.210						
	Subtest 3	21.73	0.149	21.85	0.153	22.08	0.161						
	Subtest 4	22.05	0.160	22.16	0.164	22.39	0.173						
HSUPA	Subtest 1	23.75	0.237	23.94	0.248	23.98	0.250			23.61	0.230		
	Subtest 2	22.17	0.165	22.25	0.168	22.27	0.169						
	Subtest 3	23.70	0.234	23.91	0.246	23.95	0.248						
	Subtest 4	21.94	0.156	22.06	0.161	22.08	0.161						
	Subtest 5	22.95	0.197	23.05	0.202	23.04	0.201						
DC-HSDPA	Subtest 1	22.93	0.196	23.11	0.205	23.34	0.216					23.61	0.230
	Subtest 2	22.76	0.189	22.91	0.195	23.16	0.207						
	Subtest 3	21.69	0.148	21.82	0.152	22.15	0.164						
	Subtest 4	21.94	0.156	22.18	0.165	22.42	0.175						
HSPA+		21.93	0.156	22.16	0.164	22.41	0.174						

WCDMA V									
Ant. Gain				0.60 dB i					
Limit: 7W ERP									
Mode	3GPP 34.121 Subtest	4132		4183		4233		E.R.P	
		(826.4 MHz)		(836.6 MHz)		(846.6 MHz)			
		(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
Release 99	12.2 Kbps RMC	24.49	0.281	<u>24.56</u>	<u>0.286</u>	24.30	0.269	23.01	0.200
HSDPA	Subtest 1	23.11	0.205	<u>23.28</u>	<u>0.213</u>	22.90	0.195	21.73	0.149
	Subtest 2	23.08	0.203	23.21	0.209	23.19	0.208		
	Subtest 3	21.43	0.139	21.58	0.144	21.39	0.138		
	Subtest 4	21.74	0.149	21.88	0.154	21.71	0.148		
HSUPA	Subtest 1	22.95	0.197	23.05	0.202	23.04	0.201		
	Subtest 2	20.91	0.123	21.02	0.126	21.00	0.126		
	Subtest 3	22.85	0.193	22.98	0.199	22.95	0.197		
	Subtest 4	20.76	0.119	20.82	0.121	20.81	0.121		
	Subtest 5	22.27	0.169	22.33	0.171	22.31	0.170		
DC-HSDPA	Subtest 1	23.09	0.204	23.24	0.211	22.92	0.196		
	Subtest 2	23.04	0.201	23.16	0.207	23.15	0.207		
	Subtest 3	21.29	0.135	21.33	0.136	21.32	0.136		
	Subtest 4	21.69	0.148	21.78	0.151	21.63	0.146		
HSPA+		21.67	0.147	21.79	0.151	21.64	0.146		

LTE Band 25/2														
Ant. Gain						0.46 dB i								
Limit: 2W EIRP														
BW (MHz)	Modulation	RB Size	RB Offset	26047 (1 850.7 MHz)		26365 (1 880.0 MHz)		26883 (1 909.3 MHz)		E.I.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
1.4	QPSK	1	0	22.46	0.176	22.32	0.171	22.25	0.168	22.97	0.198			
		1	3	22.50	0.178	22.31	0.170	22.34	0.171					
		1	5	22.51	0.178	22.30	0.170	22.35	0.172					
		3	0	22.45	0.176	22.30	0.170	22.33	0.171					
		3	2	22.35	0.172	22.32	0.171	22.23	0.167					
		3	3	22.36	0.172	22.33	0.171	22.28	0.169					
	16QAM	6	0	21.44	0.139	22.32	0.171	22.35	0.172					
		1	0	21.63	0.146	21.67	0.147	21.46	0.140					
		1	3	21.75	0.150	21.66	0.147	21.46	0.140					
		1	5	21.81	0.152	21.62	0.145	21.58	0.144					
		3	0	21.58	0.144	21.73	0.149	21.46	0.140					
		3	2	21.65	0.146	21.62	0.145	21.46	0.140					
	64QAM	3	3	21.50	0.141	21.58	0.144	21.48	0.141	22.27	0.169			
		6	0	20.46	0.111	21.70	0.148	21.48	0.141					
		1	0	20.64	0.116	20.57	0.114	20.52	0.113					
		1	3	20.28	0.107	20.59	0.115	20.42	0.110					
		1	5	20.72	0.118	20.59	0.115	20.40	0.110					
		3	0	20.49	0.112	20.60	0.115	20.35	0.108					
	256QAM	3	2	20.44	0.111	20.53	0.113	20.50	0.112					
		3	3	20.50	0.112	20.54	0.113	20.44	0.111					
		6	0	19.53	0.090	20.59	0.115	20.51	0.112					
		1	0	17.59	0.057	17.42	0.055	17.45	0.056					
		1	3	17.53	0.057	17.43	0.055	17.45	0.056					
		1	5	17.59	0.057	17.43	0.055	17.37	0.055					
	3	0	17.68	0.059	17.45	0.056	17.46	0.056						
	3	2	17.66	0.058	17.49	0.056	17.46	0.056						
	3	3	17.58	0.057	17.47	0.056	17.47	0.056						
	6	0	17.53	0.057	17.45	0.056	17.38	0.055						
	LTE Band 25/2													
	Ant. Gain						0.46 dB i							
Limit: 2W EIRP														
BW (MHz)	Modulation	RB Size	RB Offset	26055 (1 851.5 MHz)		26365 (1 880.0 MHz)		26675 (1 908.5 MHz)		E.I.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
3	QPSK	1	0	22.57	0.181	22.49	0.177	22.34	0.171	23.03	0.201			
		1	7	22.55	0.180	22.31	0.170	22.35	0.172					
		1	14	22.50	0.178	22.37	0.173	22.33	0.171					
		8	0	21.47	0.140	21.39	0.138	21.31	0.135					
		8	4	21.53	0.142	21.30	0.135	21.31	0.135					
		8	7	21.55	0.143	21.41	0.138	21.31	0.135					
	16QAM	15	0	21.54	0.143	21.39	0.138	21.33	0.136					
		1	0	21.70	0.148	21.70	0.148	21.59	0.144					
		1	7	21.84	0.153	21.79	0.151	21.54	0.143					
		1	14	21.79	0.151	21.77	0.150	21.65	0.146					
		8	0	20.56	0.114	20.42	0.110	20.32	0.108					
		8	4	20.55	0.114	20.44	0.111	20.35	0.108					
	64QAM	8	7	20.59	0.115	20.44	0.111	20.33	0.108	22.30	0.170			
		15	0	20.61	0.115	20.42	0.110	20.34	0.108					
		1	0	20.65	0.116	20.65	0.116	20.46	0.111					
		1	7	20.66	0.116	20.64	0.116	20.56	0.114					
		1	14	20.66	0.116	20.64	0.116	20.52	0.113					
		8	0	19.54	0.090	19.43	0.088	19.34	0.086					
	256QAM	8	4	19.55	0.090	19.41	0.087	19.35	0.086					
		8	7	19.56	0.090	19.40	0.087	19.35	0.086					
		15	0	19.55	0.090	19.39	0.087	19.33	0.086					
		1	0	17.58	0.057	17.48	0.056	17.39	0.055					
		1	7	17.69	0.059	17.64	0.058	17.56	0.057					
		1	14	17.73	0.059	17.45	0.056	17.60	0.058					
	8	0	17.64	0.058	17.49	0.056	17.28	0.053						
	8	4	17.66	0.058	17.41	0.055	17.36	0.054						
	8	7	17.64	0.058	17.43	0.055	17.33	0.054						
	15	0	17.64	0.058	17.35	0.054	17.35	0.054						

LTE Band 25/2											
Ant. Gain						0.46 dB i					
Limit: 2W EIRP											
BW (MHz)	Modulation	RB Size	RB Offset	26065 (1 852.5 MHz)		26365 (1 880.0 MHz)		26665 (1 907.5 MHz)		E.I.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.49	0.177	22.50	0.178	22.34	0.171	23.01	0.200
		1	12	22.55	0.180	22.41	0.174	22.29	0.169		
		1	24	22.52	0.179	22.37	0.173	22.36	0.172		
		12	0	21.46	0.140	22.39	0.173	21.32	0.136		
		12	6	21.48	0.141	22.36	0.172	21.29	0.135		
		12	13	21.48	0.141	22.35	0.172	21.33	0.136		
	16QAM	25	0	21.53	0.142	21.40	0.138	21.29	0.135	22.30	0.170
		1	0	21.67	0.147	21.72	0.149	21.59	0.144		
		1	12	21.84	0.153	21.70	0.148	21.60	0.145		
		1	24	21.81	0.152	21.68	0.147	21.61	0.145		
		12	0	20.51	0.112	20.47	0.111	20.39	0.109		
		12	6	20.54	0.113	20.46	0.111	20.33	0.108		
	64QAM	12	13	20.60	0.115	20.43	0.110	20.41	0.110		
		25	0	20.59	0.115	20.40	0.110	20.36	0.109		
		1	0	20.70	0.117	20.63	0.116	20.49	0.112		
		1	12	20.75	0.119	20.61	0.115	20.49	0.112		
		1	24	20.72	0.118	20.63	0.116	20.54	0.113		
		12	0	19.57	0.091	19.48	0.089	19.40	0.087		
	256QAM	12	6	19.61	0.091	19.44	0.088	19.36	0.086		
		12	13	19.54	0.090	19.45	0.088	19.39	0.087		
		25	0	19.61	0.091	19.39	0.087	19.35	0.086		
		1	0	17.74	0.059	17.49	0.056	17.50	0.056		
		1	12	17.68	0.059	17.53	0.057	17.54	0.057		
		1	24	17.67	0.058	17.52	0.056	17.56	0.057		
256QAM	12	6	17.65	0.058	17.46	0.056	17.36	0.054			
	12	13	17.65	0.058	17.45	0.056	17.38	0.055			
	25	0	17.51	0.056	17.40	0.055	17.35	0.054			

LTE Band 25/2											
Ant. Gain						0.46 dB i					
Limit: 2W EIRP											
BW (MHz)	Modulation	RB Size	RB Offset	26090 (1 855.0 MHz)		26365 (1 880.0 MHz)		26640 (1 905.0 MHz)		E.I.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.53	0.179	22.45	0.176	22.48	0.177	23.01	0.200
		1	25	22.55	0.180	22.45	0.176	22.48	0.177		
		1	49	22.51	0.178	22.40	0.174	22.45	0.176		
		25	0	21.46	0.140	21.39	0.138	21.50	0.141		
		25	12	21.47	0.140	21.39	0.138	21.51	0.142		
		25	25	21.50	0.141	21.39	0.138	21.50	0.141		
	16QAM	50	0	21.51	0.142	21.42	0.139	21.49	0.141	22.30	0.170
		1	0	21.74	0.149	21.58	0.144	21.69	0.148		
		1	25	21.75	0.150	21.70	0.148	21.77	0.150		
		1	49	21.84	0.153	21.60	0.145	21.75	0.150		
		25	0	20.60	0.115	20.49	0.112	20.54	0.113		
		25	12	20.57	0.114	20.45	0.111	20.49	0.112		
	64QAM	25	25	20.62	0.115	20.46	0.111	20.54	0.113		
		50	0	20.60	0.115	20.43	0.110	20.50	0.112		
		1	0	20.74	0.119	20.61	0.115	20.78	0.120		
		1	25	20.68	0.117	20.62	0.115	20.63	0.116		
		1	49	20.74	0.119	20.55	0.114	20.36	0.109		
		25	0	19.52	0.090	19.46	0.088	19.55	0.090		
	256QAM	25	12	19.57	0.091	19.49	0.089	19.53	0.090		
		25	25	19.59	0.091	19.46	0.088	19.51	0.089		
		50	0	19.58	0.091	19.42	0.087	19.49	0.089		
		1	0	17.64	0.058	17.56	0.057	17.65	0.058		
		1	25	17.67	0.058	17.55	0.057	17.66	0.058		
		1	49	17.66	0.058	17.59	0.057	17.59	0.057		
256QAM	25	0	17.65	0.058	17.49	0.056	17.58	0.057			
	25	12	17.67	0.058	17.45	0.056	17.52	0.056			
	25	25	17.66	0.058	17.43	0.055	17.51	0.056			
	50	0	17.56	0.057	17.43	0.055	17.51	0.056			

LTE Band 25/2														
Ant. Gain						0.46 dB i								
Limit: 2W EIRP														
BW (Mhz)	Modulation	RB Size	RB Offset	26115 (1 857.5 Mhz)		26365 (1 880.0 Mhz)		26615 (1 902.5 Mhz)		E.I.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
15	QPSK	1	0	22.52	0.179	22.39	0.173	22.38	0.173	22.98	0.199			
		1	36	22.50	0.178	22.41	0.174	22.46	0.176					
		1	74	22.48	0.177	22.42	0.175	22.44	0.175					
		36	0	21.48	0.141	21.32	0.136	21.42	0.139					
		36	18	21.47	0.140	21.35	0.136	21.43	0.139					
		36	37	21.45	0.140	21.36	0.137	21.43	0.139					
	16QAM	75	0	21.49	0.141	21.46	0.140	21.43	0.139	22.27	0.169			
		1	0	21.73	0.149	21.71	0.148	21.70	0.148					
		1	36	21.81	0.152	21.70	0.148	21.70	0.148					
		1	74	21.80	0.151	21.74	0.149	21.67	0.147					
		36	0	20.58	0.114	20.45	0.111	20.51	0.112					
		36	18	20.60	0.115	20.47	0.111	20.47	0.111					
	64QAM	36	37	20.56	0.114	20.47	0.111	20.49	0.112			20.53	0.113	
		75	0	20.53	0.113	20.38	0.109	20.43	0.110					
		1	0	20.62	0.115	20.63	0.116	20.62	0.115					
		1	36	20.65	0.116	20.62	0.115	20.56	0.114					
		1	74	20.70	0.117	20.59	0.115	20.58	0.114					
		36	0	19.57	0.091	19.45	0.088	19.48	0.089					
	256QAM	36	18	19.54	0.090	19.43	0.088	19.45	0.088			19.59	0.091	
		36	37	19.59	0.091	19.48	0.089	19.52	0.090					
		75	0	19.50	0.089	19.37	0.086	19.46	0.088					
		1	0	17.66	0.058	17.51	0.056	17.61	0.058					
		1	36	17.68	0.059	17.54	0.057	17.63	0.058					
		1	74	17.64	0.058	17.54	0.057	17.54	0.057					
	256QAM	36	0	17.64	0.058	17.43	0.055	17.45	0.056	17.45	0.056			
		36	18	17.63	0.058	17.47	0.056	17.45	0.056					
		36	37	17.65	0.058	17.45	0.056	17.47	0.056					
		75	0	17.51	0.056	17.42	0.055	17.42	0.055					
LTE Band 25/2														
Ant. Gain						0.46 dB i								
Limit: 2W EIRP														
BW (Mhz)	Modulation	RB Size	RB Offset	26140 (1 860.0 Mhz)		26365 (1 880.0 Mhz)		26590 (1 900.0 Mhz)		E.I.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
20	QPSK	1	0	22.48	0.177	22.41	0.174	22.40	0.174	22.97	0.198			
		1	50	22.51	0.178	22.43	0.175	22.43	0.175					
		1	99	22.49	0.177	22.39	0.173	22.43	0.175					
		50	0	21.48	0.141	21.31	0.135	21.41	0.138					
		50	25	21.51	0.142	21.34	0.136	21.44	0.139					
		50	50	21.47	0.140	21.36	0.137	21.45	0.140					
	16QAM	100	0	21.49	0.141	21.44	0.139	21.42	0.139	22.22	0.167			
		1	0	21.76	0.150	21.72	0.149	21.58	0.144					
		1	50	21.71	0.148	21.76	0.150	21.67	0.147					
		1	99	21.71	0.148	21.67	0.147	21.70	0.148					
		50	0	20.56	0.114	20.44	0.111	20.48	0.112					
		50	25	20.52	0.113	20.51	0.112	20.47	0.111					
	64QAM	50	50	20.55	0.114	20.45	0.111	20.48	0.112			20.58	0.114	
		100	0	20.58	0.114	20.43	0.110	20.42	0.110					
		1	0	20.70	0.117	20.59	0.115	20.64	0.116					
		1	50	20.69	0.117	20.54	0.113	20.63	0.116					
		1	99	20.69	0.117	20.60	0.115	20.66	0.116					
		50	0	19.52	0.090	19.46	0.088	19.45	0.088					
	256QAM	50	25	19.61	0.091	19.43	0.088	19.45	0.088			19.52	0.090	
		50	50	19.52	0.090	19.43	0.088	19.44	0.088					
		100	0	19.43	0.088	19.42	0.087	19.43	0.088					
		1	0	17.68	0.059	17.51	0.056	17.57	0.057					
		1	50	17.59	0.057	17.53	0.057	17.59	0.057					
		1	99	17.68	0.059	17.57	0.057	17.57	0.057					
	256QAM	50	0	17.64	0.058	17.43	0.055	17.45	0.056	17.44	0.055			
		50	25	17.66	0.058	17.44	0.055	17.45	0.056					
		50	50	17.65	0.058	17.49	0.056	17.40	0.055					
		100	0	17.50	0.056	17.40	0.055	17.43	0.055					

LTE Band 66/4														
Ant. Gain						-0.37 dB i								
Limit: 1W EIRP														
BW (MHz)	Modulation	RB Size	RB Offset	131979 (1 710.7 MHz)		132322 (1 745.0 MHz)		132665 (1 779.3 MHz)		E.I.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
1.4	QPSK	1	0	22.50	0.178	22.96	0.198	22.90	0.195	22.64	0.184			
		1	3	22.45	0.176	23.01	0.200	22.83	0.192					
		1	5	22.38	0.173	22.92	0.196	22.84	0.192					
		3	0	22.40	0.174	22.90	0.195	22.79	0.190					
		3	2	22.35	0.172	22.88	0.194	22.96	0.198					
		3	3	22.36	0.172	22.88	0.194	22.80	0.191					
	16QAM	6	0	21.45	0.140	21.92	0.156	21.91	0.155					
		1	0	21.68	0.147	22.33	0.171	22.15	0.164					
		1	3	21.79	0.151	22.27	0.169	22.07	0.161					
		1	5	21.70	0.148	22.13	0.163	22.14	0.164					
		3	0	21.54	0.143	22.25	0.168	22.11	0.163					
		3	2	21.40	0.138	22.19	0.166	22.12	0.163					
	64QAM	3	3	21.46	0.140	22.26	0.168	22.13	0.163	21.96	0.157			
		6	0	20.52	0.113	21.27	0.134	21.14	0.130					
		1	0	20.55	0.114	21.05	0.127	21.09	0.129					
		1	3	20.32	0.108	21.04	0.127	21.03	0.127					
		1	5	20.67	0.117	21.07	0.128	21.07	0.128					
		3	0	20.50	0.112	21.11	0.129	21.07	0.128					
	256QAM	3	2	20.58	0.114	21.09	0.129	20.97	0.125					
		3	3	20.42	0.110	21.13	0.130	21.05	0.127					
		6	0	19.47	0.089	20.15	0.104	19.99	0.100					
		1	0	17.55	0.057	18.01	0.063	17.92	0.062					
		1	3	17.50	0.056	17.97	0.063	18.03	0.064					
		1	5	17.66	0.058	18.04	0.064	18.03	0.064					
	3	0	17.65	0.058	18.04	0.064	18.00	0.063						
	3	2	17.44	0.055	18.10	0.065	17.94	0.062						
	3	3	17.50	0.056	18.08	0.064	17.94	0.062						
	6	0	17.55	0.057	18.05	0.064	17.98	0.063						
	LTE Band 66/4													
	Ant. Gain						-0.37 dB i							
Limit: 1W EIRP														
BW (MHz)	Modulation	RB Size	RB Offset	131987 (1 711.5 MHz)		132322 (1 745.0 MHz)		132657 (1 778.5 MHz)		E.I.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
3	QPSK	1	0	22.39	0.173	22.93	0.196	22.84	0.192	22.62	0.183			
		1	7	22.47	0.177	22.97	0.198	22.89	0.195					
		1	14	22.48	0.177	22.99	0.199	22.93	0.196					
		8	0	21.39	0.138	22.00	0.158	21.89	0.155					
		8	4	21.46	0.140	22.02	0.159	21.87	0.154					
		8	7	21.41	0.138	21.99	0.158	21.89	0.155					
	16QAM	15	0	21.53	0.142	22.01	0.159	21.89	0.155					
		1	0	21.62	0.145	22.12	0.163	22.04	0.160					
		1	7	21.70	0.148	22.25	0.168	22.20	0.166					
		1	14	21.78	0.151	22.38	0.173	22.18	0.165					
		8	0	20.48	0.112	21.01	0.126	20.93	0.124					
		8	4	20.50	0.112	21.11	0.129	20.88	0.122					
	64QAM	8	7	20.51	0.112	21.12	0.129	20.90	0.123	22.01	0.159			
		15	0	20.55	0.114	20.98	0.125	20.86	0.122					
		1	0	20.60	0.115	21.11	0.129	21.11	0.129					
		1	7	20.68	0.117	21.22	0.132	21.11	0.129					
		1	14	20.65	0.116	21.26	0.134	21.12	0.129					
		8	0	19.46	0.088	20.04	0.101	19.90	0.098					
	256QAM	8	4	19.57	0.091	20.07	0.102	19.91	0.098					
		8	7	19.55	0.090	20.05	0.101	19.88	0.097					
		15	0	19.51	0.089	20.03	0.101	19.88	0.097					
		1	0	17.68	0.059	18.06	0.064	18.10	0.065					
		1	7	17.67	0.058	18.17	0.066	18.10	0.065					
		1	14	17.68	0.059	18.11	0.065	18.07	0.064					
	8	0	17.61	0.058	18.00	0.063	17.86	0.061						
	8	4	17.63	0.058	18.02	0.063	17.85	0.061						
	8	7	17.60	0.058	18.11	0.065	17.82	0.061						
	100	0	17.50	0.056	17.40	0.055	17.43	0.055						

LTE Band 66/4												
Ant. Gain						-0.37 dB i						
Limit: 1W EIRP												
BW (Mhz)	Modulation	RB Size	RB Offset	131997 (1 712.5 Mhz)		132322 (1 745.0 Mhz)		132647 (1 777.5 Mhz)		E.I.R.P		
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	
5	QPSK	1	0	22.53	0.179	23.02	0.200	22.86	0.193	22.68	0.185	
		1	12	22.48	0.177	23.05	0.202	22.97	0.198			
		1	24	22.54	0.179	23.03	0.201	22.95	0.197			
		12	0	21.49	0.141	21.98	0.158	21.93	0.156			
		12	6	21.43	0.139	21.95	0.157	21.88	0.154			
		12	13	21.44	0.139	22.02	0.159	21.93	0.156			
	16QAM	25	0	21.46	0.140	21.98	0.158	21.92	0.156	21.93	0.156	
		1	0	21.67	0.147	22.24	0.167	22.20	0.166			
		1	12	21.68	0.147	22.30	0.170	22.10	0.162			
		1	24	21.79	0.151	22.17	0.165	22.12	0.163			
		12	0	20.47	0.111	21.05	0.127	20.98	0.125			
		12	6	20.51	0.112	21.09	0.129	20.93	0.124			
	64QAM	12	13	20.54	0.113	21.08	0.128	20.99	0.126			
		25	0	20.56	0.114	21.02	0.126	20.90	0.123			
		1	0	20.62	0.115	21.12	0.129	21.12	0.129			
		1	12	20.66	0.116	21.10	0.129	21.10	0.129			
		1	24	20.65	0.116	21.19	0.132	21.09	0.129			
		12	0	19.56	0.090	20.02	0.100	19.94	0.099			
	256QAM	12	6	19.59	0.091	20.08	0.102	19.91	0.098			
		12	13	19.53	0.090	20.04	0.101	19.92	0.098			
		25	0	19.52	0.090	20.03	0.101	19.90	0.098			
		1	0	17.69	0.059	18.14	0.065	18.07	0.064			
		1	12	17.65	0.058	18.08	0.064	17.99	0.063			
		1	24	17.58	0.057	18.17	0.066	18.03	0.064			
	12	0	17.63	0.058	18.04	0.064	17.90	0.062				
	12	6	17.61	0.058	18.04	0.064	17.93	0.062				
	12	13	17.62	0.058	18.06	0.064	17.95	0.062				
	25	0	17.49	0.056	18.00	0.063	17.89	0.062				
	LTE Band 66/4											
	Ant. Gain						-0.37 dB i					
Limit: 1W EIRP												
BW (Mhz)	Modulation	RB Size	RB Offset	132022 (1 715.0 Mhz)		132322 (1 745.0 Mhz)		132622 (1 775.0 Mhz)		E.I.R.P		
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	
10	QPSK	1	0	22.47	0.177	22.91	0.195	22.98	0.199	22.64	0.184	
		1	25	22.48	0.177	22.99	0.199	22.94	0.197			
		1	49	22.49	0.177	23.01	0.200	22.97	0.198			
		25	0	21.43	0.139	21.94	0.156	21.96	0.157			
		25	12	21.45	0.140	21.95	0.157	21.96	0.157			
		25	25	21.47	0.140	21.94	0.156	21.91	0.155			
	16QAM	50	0	21.60	0.145	21.98	0.158	21.92	0.156	22.00	0.158	
		1	0	21.70	0.148	22.25	0.168	22.29	0.169			
		1	25	21.76	0.150	22.35	0.172	22.37	0.173			
		1	49	21.74	0.149	22.32	0.171	22.20	0.166			
		25	0	20.59	0.115	21.06	0.128	21.00	0.126			
		25	12	20.59	0.115	21.04	0.127	20.98	0.125			
	64QAM	25	25	20.49	0.112	21.09	0.129	20.98	0.125			
		50	0	20.55	0.114	20.98	0.125	20.96	0.125			
		1	0	20.78	0.120	21.11	0.129	21.24	0.133			
		1	25	20.67	0.117	21.20	0.132	21.13	0.130			
		1	49	20.74	0.119	21.18	0.131	20.75	0.119			
		25	0	19.52	0.090	20.04	0.101	19.98	0.100			
	256QAM	25	12	19.50	0.089	19.99	0.100	20.01	0.100			
		25	25	19.55	0.090	20.00	0.100	19.95	0.099			
		50	0	19.50	0.089	20.01	0.100	19.94	0.099			
		1	0	17.62	0.058	18.13	0.065	18.12	0.065			
		1	25	17.65	0.058	18.18	0.066	18.07	0.064			
		1	49	17.69	0.059	18.18	0.066	17.99	0.063			
	25	0	17.67	0.058	17.99	0.063	17.95	0.062				
	25	12	17.64	0.058	18.00	0.063	17.94	0.062				
	25	25	17.69	0.059	18.03	0.064	17.93	0.062				
	50	0	17.53	0.057	17.96	0.063	17.99	0.063				

LTE Band 66/4																
Ant. Gain						-0.37 dB i										
Limit: 1W EIRP																
BW (MHz)	Modulation	RB Size	RB Offset	132047 (1 717.5 MHz)		132322 (1 745.5 MHz)		132597 (1 772.5 MHz)		E.I.R.P						
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)					
15	QPSK	1	0	22.51	0.178	22.96	0.198	23.04	0.201	22.67	0.185					
		1	36	22.49	0.177	22.95	0.197	23.00	0.200							
		1	74	22.53	0.179	22.95	0.197	22.96	0.198							
		36	0	21.50	0.141	21.93	0.156	21.97	0.157							
		36	18	21.46	0.140	21.87	0.154	22.00	0.158							
		36	37	21.46	0.140	21.94	0.156	21.99	0.158							
	16QAM	75	0	21.46	0.140	21.91	0.155	21.98	0.158	21.95	0.157					
		1	0	21.81	0.152	22.21	0.166	22.30	0.170							
		1	36	21.74	0.149	22.21	0.166	22.27	0.169							
		1	74	21.83	0.152	22.24	0.167	22.32	0.171							
		36	0	20.54	0.113	21.02	0.126	21.04	0.127							
		36	18	20.55	0.114	20.98	0.125	21.06	0.128							
	64QAM	36	37	20.60	0.115	21.00	0.126	21.07	0.128			21.95	0.157			
		75	0	20.53	0.113	20.92	0.124	21.00	0.126							
		1	0	20.68	0.117	21.13	0.130	21.20	0.132							
		1	36	20.67	0.117	21.16	0.131	21.22	0.132							
		1	74	20.71	0.118	21.18	0.131	21.12	0.129							
		36	0	19.60	0.091	19.99	0.100	20.03	0.101							
	256QAM	36	18	19.53	0.090	19.96	0.099	20.03	0.101	21.95	0.157					
		36	37	19.54	0.090	19.97	0.099	20.04	0.101							
		75	0	19.53	0.090	19.93	0.098	20.02	0.100							
		1	0	17.63	0.058	17.96	0.063	18.13	0.065							
		1	36	17.66	0.058	18.12	0.065	18.17	0.066							
		1	74	17.68	0.059	18.15	0.065	18.17	0.066							
256QAM	36	0	17.67	0.058	17.93	0.062	18.04	0.064	21.95			0.157				
	36	18	17.61	0.058	17.97	0.063	18.05	0.064								
	36	37	17.65	0.058	17.98	0.063	18.00	0.063								
	75	0	17.49	0.056	17.94	0.062	18.03	0.064								
	LTE Band 66/4															
	Ant. Gain						-0.37 dB i									
Limit: 1W EIRP																
BW (MHz)	Modulation	RB Size	RB Offset	132072 (1 720.0 MHz)		132322 (1 745.0 MHz)		132572 (1 770.0 MHz)		E.I.R.P						
				(dB m)	(W)	(dB m)	(W)	(dB m)		(W)	(dB m)		(W)			
20	QPSK	1	0	22.45	0.176	22.87	0.194	22.98		0.199	22.64		0.184			
		1	50	22.53	0.179	22.90	0.195	22.99		0.199						
		1	99	22.51	0.178	22.94	0.197	23.01		0.200						
		50	0	21.41	0.138	21.85	0.153	22.02	0.159							
		50	25	21.46	0.140	21.82	0.152	21.96	0.157							
		50	50	21.46	0.140	21.88	0.154	22.01	0.159							
	16QAM	100	0	21.47	0.140	21.89	0.155	21.98	0.158	21.95	0.157					
		1	0	21.73	0.149	22.07	0.161	22.32	0.171							
		1	50	21.74	0.149	22.21	0.166	22.25	0.168							
		1	99	21.66	0.147	22.19	0.166	22.28	0.169							
		50	0	20.63	0.116	20.97	0.125	21.04	0.127							
		50	25	20.58	0.114	20.99	0.126	21.05	0.127							
	64QAM	50	50	20.55	0.114	21.00	0.126	21.04	0.127			21.95	0.157			
		100	0	20.58	0.114	21.90	0.155	21.03	0.127							
		1	0	20.67	0.117	21.03	0.127	21.17	0.131							
		1	50	20.70	0.117	21.12	0.129	21.19	0.132							
		1	99	20.76	0.119	21.12	0.129	21.24	0.133							
		50	0	19.52	0.090	19.95	0.099	20.01	0.100							
	256QAM	50	25	19.59	0.091	19.93	0.098	20.02	0.100	21.95	0.157					
		50	50	19.58	0.091	19.99	0.100	20.05	0.101							
		100	0	19.50	0.089	19.93	0.098	20.02	0.100							
		1	0	17.67	0.058	18.00	0.063	18.19	0.066							
		1	50	17.70	0.059	18.04	0.064	18.18	0.066							
		1	99	17.62	0.058	18.03	0.064	18.15	0.065							
	256QAM	50	0	17.60	0.058	17.89	0.062	18.03	0.064			21.95	0.157			
		50	25	17.62	0.058	17.96	0.063	18.02	0.063							
		50	50	17.63	0.058	17.94	0.062	18.04	0.064							
		100	0	17.54	0.057	17.90	0.062	18.00	0.063							

LTE Band 26/5 Part 22											
Ant. Gain						0.60 dB i					
Limit: 7W ERP											
BW (MHz)	Modulation	RB Size	RB Offset	26797 (824.7 MHz)		26915 (836.5 MHz)		27033 (848.3 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	23.25	0.211	23.45	0.221	23.14	0.206	21.97	0.157
		1	3	23.42	0.220	23.52	0.225	23.24	0.211		
		1	5	23.38	0.218	23.51	0.224	23.25	0.211		
		3	0	23.31	0.214	23.52	0.225	23.27	0.212		
		3	2	23.26	0.212	23.39	0.218	23.16	0.207		
		3	3	23.26	0.212	23.40	0.219	23.22	0.210		
	16QAM	6	0	22.41	0.174	22.52	0.179	22.26	0.168	21.25	0.133
		1	0	22.47	0.177	22.68	0.185	22.47	0.177		
		1	3	22.53	0.179	22.66	0.185	22.42	0.175		
		1	5	22.60	0.182	22.80	0.191	22.57	0.181		
		3	0	22.33	0.171	22.70	0.186	22.37	0.173		
		3	2	22.42	0.175	22.70	0.186	22.46	0.176		
	64QAM	3	3	22.43	0.175	22.79	0.190	22.40	0.174		
		6	0	21.42	0.139	21.83	0.152	21.48	0.141		
		1	0	21.52	0.142	21.70	0.148	21.42	0.139		
		1	3	21.34	0.136	21.58	0.144	21.32	0.136		
		1	5	21.48	0.141	21.61	0.145	21.33	0.136		
		3	0	21.41	0.138	21.62	0.145	21.32	0.136		
	256QAM	3	2	21.28	0.134	21.60	0.145	21.43	0.139		
		3	3	21.34	0.136	21.66	0.147	21.37	0.137		
		6	0	20.44	0.111	20.59	0.115	20.28	0.107		
		1	0	18.47	0.070	18.66	0.073	18.40	0.069		
		1	3	18.38	0.069	18.60	0.072	18.42	0.070		
		1	5	18.51	0.071	18.62	0.073	18.35	0.068		
3		0	18.54	0.071	18.60	0.072	18.42	0.070			
3		2	18.43	0.070	18.65	0.073	18.40	0.069			
3	3	18.50	0.071	18.58	0.072	18.38	0.069				
6	0	18.36	0.069	18.60	0.072	18.36	0.069				

LTE Band 26/5 Part 22											
Ant. Gain						0.60 dB i					
Limit: 1W EIRP											
BW (MHz)	Modulation	RB Size	RB Offset	26805 (825.5 MHz)		26915 (836.5 MHz)		27025 (847.5 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	23.43	0.220	23.55	0.226	23.35	0.216	22.00	0.158
		1	7	23.37	0.217	23.37	0.217	23.23	0.210		
		1	14	23.40	0.219	23.54	0.226	23.23	0.210		
		8	0	22.30	0.170	22.50	0.178	22.27	0.169		
		8	4	22.37	0.173	22.39	0.173	22.26	0.168		
		8	7	22.37	0.173	22.46	0.176	22.28	0.169		
	16QAM	15	0	22.47	0.177	22.55	0.180	22.29	0.169	21.16	0.131
		1	0	22.58	0.181	22.64	0.184	22.50	0.178		
		1	7	22.61	0.182	22.69	0.186	22.56	0.180		
		1	14	22.71	0.187	22.67	0.185	22.54	0.179		
		8	0	21.42	0.139	21.62	0.145	21.30	0.135		
		8	4	21.48	0.141	21.61	0.145	21.33	0.136		
	64QAM	8	7	21.40	0.138	21.60	0.145	21.33	0.136		
		15	0	21.48	0.141	21.57	0.144	21.31	0.135		
		1	0	21.49	0.141	21.79	0.151	21.43	0.139		
		1	7	21.60	0.145	21.61	0.145	21.49	0.141		
		1	14	21.52	0.142	21.61	0.145	21.44	0.139		
		8	0	20.80	0.120	20.56	0.114	20.30	0.107		
	256QAM	8	4	20.50	0.112	20.54	0.113	20.31	0.107		
		8	7	20.45	0.111	20.51	0.112	20.29	0.107		
		15	0	20.41	0.110	20.56	0.114	20.31	0.107		
		1	0	18.57	0.072	18.76	0.075	18.53	0.071		
		1	7	18.63	0.073	18.62	0.073	18.49	0.071		
		1	14	18.61	0.073	18.67	0.074	18.47	0.070		
8		0	18.57	0.072	18.65	0.073	18.34	0.068			
8		4	18.56	0.072	18.61	0.073	18.27	0.067			
8	7	18.54	0.071	18.64	0.073	18.26	0.067				
15	0	18.50	0.071	18.51	0.071	18.25	0.067				

LTE Band 26/5 Part 22											
Ant. Gain						0.60 dB i					
Limit: 7W ERP											
BW (MHz)	Modulation	RB Size	RB Offset	26815 (826.5 MHz)		26915 (836.5 MHz)		27015 (846.5 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.44	0.221	23.55	0.226	23.46	0.222	22.00	0.158
		1	12	23.44	0.221	23.46	0.222	23.20	0.209		
		1	24	23.44	0.221	23.45	0.221	23.30	0.214		
		12	0	22.42	0.175	22.46	0.176	22.35	0.172		
		12	6	22.36	0.172	22.55	0.180	22.31	0.170		
		12	13	22.34	0.171	22.50	0.178	22.30	0.170		
	16QAM	25	0	22.37	0.173	22.58	0.181	22.29	0.169	21.31	0.135
		1	0	22.59	0.182	22.76	0.189	22.64	0.184		
		1	12	22.60	0.182	22.86	0.193	22.62	0.183		
		1	24	22.65	0.184	22.77	0.189	22.48	0.177		
		12	0	21.45	0.140	21.60	0.145	21.44	0.139		
		12	6	21.43	0.139	21.60	0.145	21.40	0.138		
	64QAM	12	13	21.47	0.140	21.55	0.143	21.36	0.137		
		25	0	21.46	0.140	21.54	0.143	21.31	0.135		
		1	0	21.55	0.143	21.67	0.147	21.53	0.142		
		1	12	21.68	0.147	21.77	0.150	21.48	0.141		
		1	24	21.62	0.145	21.70	0.148	21.43	0.139		
		12	0	20.50	0.112	20.59	0.115	20.39	0.109		
	256QAM	12	6	20.50	0.112	20.57	0.114	20.35	0.108		
		12	13	20.46	0.111	20.53	0.113	20.33	0.108		
		25	0	20.54	0.113	20.57	0.114	20.34	0.108		
		1	0	18.56	0.072	18.67	0.074	18.56	0.072		
		1	12	18.63	0.073	18.72	0.074	18.39	0.069		
		1	24	18.66	0.073	18.71	0.074	18.47	0.070		
256QAM	12	6	18.59	0.072	18.61	0.073	18.38	0.069			
	12	6	18.63	0.073	18.61	0.073	18.38	0.069			
	12	13	18.62	0.073	18.59	0.072	18.31	0.068			
	25	0	18.44	0.070	18.58	0.072	18.37	0.069			

LTE Band 26/5 Part 22											
Ant. Gain						0.60 dB i					
Limit: 1W EIRP											
BW (MHz)	Modulation	RB Size	RB Offset	26840 (829.0 MHz)		26915 (836.5 MHz)		26990 (844.0 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	23.44	0.221	23.53	0.225	23.37	0.217	21.98	0.158
		1	25	23.43	0.220	23.53	0.225	23.42	0.220		
		1	49	23.43	0.220	23.53	0.225	23.47	0.222		
		25	0	22.35	0.172	22.57	0.181	22.39	0.173		
		25	12	22.40	0.174	22.55	0.180	22.37	0.173		
		25	25	22.44	0.175	22.50	0.178	22.36	0.172		
	16QAM	50	0	22.41	0.174	22.49	0.177	22.40	0.174	21.24	0.133
		1	0	22.71	0.187	22.79	0.190	22.67	0.185		
		1	25	22.70	0.186	22.76	0.189	22.64	0.184		
		1	49	22.72	0.187	22.77	0.189	22.71	0.187		
		25	0	21.47	0.140	21.57	0.144	21.43	0.139		
		25	12	21.42	0.139	21.60	0.145	21.43	0.139		
	64QAM	25	25	21.47	0.140	21.60	0.145	21.46	0.140		
		50	0	21.46	0.140	21.58	0.144	21.39	0.138		
		1	0	21.63	0.146	21.74	0.149	21.52	0.142		
		1	25	21.61	0.145	21.68	0.147	21.63	0.146		
		1	49	21.65	0.146	21.71	0.148	21.45	0.140		
		25	0	20.43	0.110	20.54	0.113	20.42	0.110		
	256QAM	25	12	20.43	0.110	20.60	0.115	20.44	0.111		
		25	25	20.56	0.114	20.57	0.114	20.44	0.111		
		50	0	20.45	0.111	20.55	0.114	20.46	0.111		
		1	0	18.65	0.073	18.80	0.076	18.62	0.073		
		1	25	18.63	0.073	18.73	0.075	18.66	0.073		
		1	49	18.61	0.073	18.71	0.074	18.38	0.069		
256QAM	25	0	18.61	0.073	18.53	0.071	18.48	0.070			
	25	12	18.64	0.073	18.56	0.072	18.47	0.070			
	25	25	18.65	0.073	18.61	0.073	18.46	0.070			
	50	0	18.48	0.070	18.53	0.071	18.46	0.070			

LTE Band 26_Part 22											
Ant. Gain						0.60 dB i					
Limit: 7W ERP											
BW (MHz)	Modulation	RB Size	RB Offset	26865 (831.5 MHz)				26965 (841.5 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	23.41	0.219			23.56	0.227	22.01	0.159
		1	36	23.39	0.218			23.48	0.223		
		1	74	23.41	0.219			23.45	0.221		
		36	0	22.40	0.174			22.48	0.177		
		36	18	22.42	0.175			22.50	0.178		
		36	37	22.42	0.175			22.49	0.177		
		75	0	22.54	0.179			22.50	0.178		
	16QAM	1	0	22.64	0.184			22.78	0.190	21.23	0.133
		1	36	22.68	0.185			22.76	0.189		
		1	74	22.62	0.183			22.64	0.184		
		36	0	21.48	0.141			21.56	0.143		
		36	18	21.48	0.141			21.56	0.143		
		36	37	21.46	0.140			21.54	0.143		
		75	0	21.41	0.138			21.53	0.142		
	64QAM	1	0	21.55	0.143			21.67	0.147		
		1	36	21.60	0.145			21.68	0.147		
		1	74	21.66	0.147			21.65	0.146		
		36	0	20.56	0.114			20.56	0.114		
		36	18	20.56	0.114			20.57	0.114		
		36	37	20.58	0.114			20.51	0.112		
		75	0	20.57	0.114			20.52	0.113		
	256QAM	1	0	18.64	0.073			18.74	0.075		
		1	36	18.60	0.072			18.71	0.074		
		1	74	18.61	0.073			18.65	0.073		
		36	0	18.57	0.072			18.59	0.072		
		36	18	18.62	0.073			18.59	0.072		
		36	37	18.63	0.073			18.51	0.071		
		75	0	18.49	0.071			18.55	0.072		

LTE Band 26_Part 90												
Ant. Gain						0.60 dB i						
Limit: 100W												
BW (MHz)	Modulation	RB Size	RB Offset	26697 (814.7 MHz)		26740 (819.0 MHz)		26783 (823.3 MHz)		E.R.P		
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	
1.4	QPSK	1	0	23.32	0.215	23.32	0.215	23.36	0.217	21.82	0.152	
		1	3	23.34	0.216	23.33	0.215	23.37	0.217			
		1	5	23.26	0.212	23.19	0.208	23.33	0.215			
		3	0	23.15	0.207	23.34	0.216	23.26	0.212			
		3	2	23.16	0.207	23.22	0.210	23.35	0.216			
		3	3	23.12	0.205	23.22	0.210	23.35	0.216			
	16QAM	6	0	22.32	0.171	22.20	0.166	22.35	0.172	21.04	0.127	
		1	0	22.52	0.179	22.55	0.180	22.54	0.179			
		1	3	22.59	0.182	22.50	0.178	22.51	0.178			
		1	5	22.46	0.176	22.54	0.179	22.50	0.178			
		3	0	22.31	0.170	22.42	0.175	22.48	0.177			
		3	2	22.42	0.175	22.48	0.177	22.48	0.177			
	64QAM	3	3	22.27	0.169	22.51	0.178	22.57	0.181			
		6	0	21.35	0.136	21.44	0.139	21.53	0.142			
		1	0	21.39	0.138	21.36	0.137	21.42	0.139			
		1	3	21.30	0.135	21.42	0.139	21.39	0.138			
		1	5	21.44	0.139	21.50	0.141	21.52	0.142			
		3	0	21.33	0.136	21.41	0.138	21.47	0.140			
	256QAM	3	2	21.42	0.139	21.48	0.141	21.40	0.138			
		3	3	21.22	0.132	21.40	0.138	21.40	0.138			
		6	0	20.40	0.110	20.51	0.112	20.43	0.110			
		1	0	18.43	0.070	18.41	0.069	18.45	0.070			
		1	3	18.30	0.068	18.39	0.069	18.45	0.070			
		1	5	18.48	0.070	18.46	0.070	18.53	0.071			
256QAM	3	0	18.48	0.070	18.46	0.070	18.49	0.071				
	3	2	18.44	0.070	18.43	0.070	18.47	0.070				
	3	3	18.33	0.068	18.47	0.070	18.45	0.070				
	6	0	18.32	0.068	18.47	0.070	18.45	0.070				
	LTE Band 26_Part 90											
	Ant. Gain						0.60 dB i					
Limit: 100W												
BW (MHz)	Modulation	RB Size	RB Offset	26705 (815.5 MHz)		26740 (819.0 MHz)		26775 (822.5 MHz)		E.R.P		
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	
3	QPSK	1	0	23.21	0.209	23.37	0.217	23.35	23.21	21.82	0.152	
		1	7	23.31	0.214	23.26	0.212	23.35	23.31			
		1	14	23.24	0.211	23.37	0.217	23.36	23.24			
		8	0	22.19	0.166	22.31	0.170	22.38	23.19			
		8	4	22.25	0.168	22.27	0.169	22.38	23.25			
		8	7	22.23	0.167	22.29	0.169	22.34	23.23			
	16QAM	15	0	22.33	0.171	22.34	0.171	22.34	22.33	21.13	0.130	
		1	0	22.54	0.179	22.57	0.181	22.54	22.54			
		1	7	22.51	0.178	22.68	0.185	22.49	22.51			
		1	14	22.47	0.177	22.51	0.178	22.62	22.47			
		8	0	21.37	0.137	21.39	0.138	21.40	22.37			
		8	4	21.29	0.135	21.37	0.137	21.36	22.29			
	64QAM	8	7	21.27	0.134	21.38	0.137	21.41	22.27			
		15	0	21.37	0.137	21.32	0.136	21.44	21.37			
		1	0	21.46	0.140	21.51	0.142	21.46	21.46			
		1	7	21.47	0.140	21.45	0.140	21.59	21.47			
		1	14	21.59	0.144	21.41	0.138	21.61	21.59			
		8	0	20.25	0.106	20.35	0.108	20.38	21.25			
	256QAM	8	4	20.39	0.109	20.38	0.109	20.39	21.39			
		8	7	20.39	0.109	20.42	0.110	20.39	21.39			
		15	0	20.42	0.110	20.38	0.109	20.41	20.42			
		1	0	18.56	0.072	18.46	0.070	18.58	18.56			
		1	7	18.42	0.070	18.37	0.069	18.60	18.42			
		1	14	18.50	0.071	18.53	0.071	18.60	18.50			
256QAM	8	0	18.49	0.071	18.46	0.070	18.39	18.49				
	8	4	18.48	0.070	18.36	0.069	18.37	18.48				
	8	7	18.46	0.070	18.39	0.069	18.43	18.46				
	15	0	18.27	0.067	18.38	0.069	18.34	18.27				

LTE Band 26_Part 90											
Ant. Gain						0.60 dB i					
Limit: 100W											
BW (MHz)	Modulation	RB Size	RB Offset	26715 (816.5 MHz)		26740 (819.0 MHz)		26765 (821.5 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.26	0.212	23.25	0.211	23.29	0.213	21.86	0.153
		1	12	23.30	0.214	23.32	0.215	23.25	0.211		
		1	24	23.31	0.214	23.30	0.214	23.41	0.219		
		12	0	22.26	0.168	22.31	0.170	22.33	0.171		
		12	6	22.26	0.168	22.26	0.168	22.37	0.173		
		12	13	22.27	0.169	22.31	0.170	22.36	0.172		
	16QAM	25	0	22.29	0.169	22.32	0.171	22.34	0.171	21.11	0.129
		1	0	22.48	0.177	22.54	0.179	22.50	0.178		
		1	12	22.59	0.182	22.57	0.181	22.58	0.181		
		1	24	22.64	0.184	22.59	0.182	22.66	0.185		
		12	0	21.38	0.137	21.37	0.137	21.41	0.138		
		12	6	21.31	0.135	21.36	0.137	21.41	0.138		
	64QAM	12	13	21.37	0.137	21.33	0.136	21.41	0.138		
		25	0	21.34	0.136	21.37	0.137	21.37	0.137		
		1	0	21.55	0.143	21.59	0.144	21.55	0.143		
		1	12	21.51	0.142	21.54	0.143	21.50	0.141		
		1	24	21.53	0.142	21.48	0.141	21.59	0.144		
		12	0	20.42	0.110	20.32	0.108	20.39	0.109		
	256QAM	12	6	20.38	0.109	20.33	0.108	20.38	0.109		
		12	13	20.40	0.110	20.34	0.108	20.41	0.110		
		25	0	20.36	0.109	20.36	0.109	20.37	0.109		
		1	0	18.53	0.071	18.59	0.072	18.52	0.071		
		1	12	18.54	0.071	18.54	0.071	18.42	0.070		
		1	24	18.50	0.071	18.46	0.070	18.55	0.072		
12		0	18.51	0.071	18.40	0.069	18.44	0.070			
12		6	18.51	0.071	18.38	0.069	18.45	0.070			
256QAM	12	13	18.49	0.071	18.38	0.069	18.39	0.069			
	25	0	18.39	0.069	18.35	0.068	18.37	0.069			

LTE Band 26_Part 90											
Ant. Gain						0.60 dB i					
Limit: 100W											
BW (MHz)	Modulation	RB Size	RB Offset			26740 (819.0 MHz)				E.R.P	
						(dB m)	(W)			(dB m)	(W)
10	QPSK	1	0			23.30	0.214			21.75	0.150
		1	25			23.29	0.213				
		1	49			23.28	0.213				
		25	0			22.32	0.171				
		25	12			22.27	0.169				
		25	25			22.28	0.169				
	16QAM	50	0			22.41	0.174			21.08	0.128
		1	0			22.54	0.179				
		1	25			22.63	0.183				
		1	49			22.61	0.182				
		25	0			21.43	0.139				
		25	12			21.34	0.136				
	64QAM	25	25			21.37	0.137				
		50	0			21.31	0.135				
		1	0			21.62	0.145				
		1	25			21.53	0.142				
		1	49			21.51	0.142				
		25	0			20.38	0.109				
	256QAM	25	12			20.37	0.109				
		25	25			20.36	0.109				
		50	0			20.37	0.109				
		1	0			18.56	0.072				
		1	25			18.51	0.071				
		1	49			18.55	0.072				
256QAM	25	0			18.39	0.069					
	25	12			18.42	0.070					
	25	25			18.38	0.069					
	50	0			18.35	0.068					

LTE Band 7												
Ant. Gain						0.22 dB i						
Limit: 2W EIRP												
BW (MHz)	Modulation	RB Size	RB Offset	20775 (2 502.5 MHz)		21100 (2 535.0 MHz)		21425 (2 567.5 MHz)		E.I.R.P		
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	
5	QPSK	1	0	22.12	0.163	22.39	0.173	22.27	0.169	22.61	0.182	
		1	12	22.13	0.163	22.29	0.169	22.25	0.168			
		1	24	22.20	0.166	22.30	0.170	22.22	0.167			
		12	0	21.19	0.132	21.31	0.135	21.26	0.134			
		12	6	21.16	0.131	21.31	0.135	21.27	0.134			
		12	13	21.18	0.131	21.33	0.136	21.29	0.135			
	16QAM	25	0	21.20	0.132	21.32	0.136	21.21	0.132	21.88	0.154	
		1	0	21.37	0.137	21.64	0.146	21.55	0.143			
		1	12	21.47	0.140	21.66	0.147	21.42	0.139			
		1	24	21.49	0.141	21.65	0.146	21.44	0.139			
		12	0	20.23	0.105	20.33	0.108	20.48	0.112			
		12	6	20.24	0.106	20.34	0.108	20.56	0.114			
	64QAM	12	13	20.13	0.103	20.31	0.107	20.63	0.116			
		25	0	20.24	0.106	20.36	0.109	20.51	0.112			
		1	0	20.27	0.106	20.58	0.114	20.42	0.110			
		1	12	20.41	0.110	20.62	0.115	20.42	0.110			
		1	24	20.33	0.108	20.60	0.115	20.51	0.112			
		12	0	19.29	0.085	19.33	0.086	19.42	0.087			
	256QAM	12	6	19.25	0.084	19.35	0.086	19.46	0.088			
		12	13	19.29	0.085	19.29	0.085	19.47	0.089			
		25	0	19.21	0.083	19.33	0.086	19.47	0.089			
		1	0	17.39	0.055	17.45	0.056	17.36	0.054			
		1	12	17.30	0.054	17.50	0.056	17.40	0.055			
		1	24	17.39	0.055	17.44	0.055	17.46	0.056			
	12	0	17.26	0.053	17.35	0.054	17.47	0.056				
	12	6	17.26	0.053	17.36	0.054	17.44	0.055				
	12	13	17.23	0.053	17.37	0.055	17.46	0.056				
	25	0	17.23	0.053	17.35	0.054	17.45	0.056				
	LTE Band 7											
	Ant. Gain						0.22 dB i					
Limit: 2W EIRP												
BW (MHz)	Modulation	RB Size	RB Offset	20800 (2 505.0 MHz)		21100 (2 535.0 MHz)		21400 (2 565.0 MHz)		E.I.R.P		
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	
10	QPSK	1	0	22.18	0.165	22.33	0.171	22.25	0.168	22.55	0.180	
		1	25	22.20	0.166	22.21	0.166	22.25	0.168			
		1	49	22.19	0.166	22.29	0.169	22.27	0.169			
		25	0	21.20	0.132	21.33	0.136	21.21	0.132			
		25	12	21.18	0.131	21.33	0.136	21.23	0.133			
		25	25	21.19	0.132	21.26	0.134	21.20	0.132			
	16QAM	50	0	21.21	0.132	21.31	0.135	21.25	0.133	21.92	0.156	
		1	0	21.44	0.139	21.70	0.148	21.64	0.146			
		1	25	21.47	0.140	21.60	0.145	21.54	0.143			
		1	49	21.50	0.141	21.54	0.143	21.53	0.142			
		25	0	20.26	0.106	20.31	0.107	20.24	0.106			
		25	12	20.21	0.105	20.30	0.107	20.23	0.105			
	64QAM	25	25	20.22	0.105	20.29	0.107	20.29	0.107			
		50	0	20.21	0.105	20.33	0.108	20.24	0.106			
		1	0	20.50	0.112	20.51	0.112	20.57	0.114			
		1	25	20.47	0.111	20.45	0.111	20.48	0.112			
		1	49	20.04	0.101	20.52	0.113	20.41	0.110			
		25	0	19.26	0.084	19.35	0.086	19.29	0.085			
	256QAM	25	12	19.24	0.084	19.31	0.085	19.27	0.085			
		25	25	19.23	0.084	19.30	0.085	19.25	0.084			
		50	0	19.25	0.084	19.33	0.086	19.26	0.084			
		1	0	17.45	0.056	17.55	0.057	17.47	0.056			
		1	25	17.47	0.056	17.37	0.055	17.47	0.056			
		1	49	17.35	0.054	17.49	0.056	17.49	0.056			
	25	0	17.24	0.053	17.36	0.054	17.27	0.053				
	25	12	17.25	0.053	17.40	0.055	17.26	0.053				
	25	25	17.22	0.053	17.34	0.054	17.29	0.054				
	50	0	17.25	0.053	17.36	0.054	17.27	0.053				

LTE Band 7											
Ant. Gain						0.22 dB i					
Limit: 2W EIRP											
BW (MHz)	Modulation	RB Size	RB Offset	20825 (2 507.0 MHz)		21100 (2 535.0 MHz)		21375 (2 562.5 MHz)		E.I.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.23	0.167	22.34	0.171	22.37	0.173	22.59	0.182
		1	36	22.27	0.169	22.31	0.170	22.14	0.164		
		1	74	22.21	0.166	22.31	0.170	22.22	0.167		
		36	0	21.21	0.132	21.32	0.136	21.27	0.134		
		36	18	21.21	0.132	21.32	0.136	21.25	0.133		
		36	37	21.19	0.132	21.34	0.136	21.19	0.132		
		75	0	21.19	0.132	21.31	0.135	21.23	0.133		
	16QAM	1	0	21.48	0.141	21.58	0.144	21.68	0.147	21.90	0.155
		1	36	21.48	0.141	21.53	0.142	21.50	0.141		
		1	74	21.58	0.144	21.58	0.144	21.53	0.142		
		36	0	20.27	0.106	20.36	0.109	20.24	0.106		
		36	18	20.25	0.106	20.30	0.107	20.24	0.106		
		36	37	20.29	0.107	20.31	0.107	20.27	0.106		
		75	0	20.24	0.106	20.34	0.108	20.24	0.106		
	64QAM	1	0	20.41	0.110	20.52	0.113	20.54	0.113		
		1	36	20.43	0.110	20.53	0.113	20.37	0.109		
		1	74	20.44	0.111	20.53	0.113	20.46	0.111		
		36	0	19.24	0.084	19.35	0.086	19.32	0.086		
		36	18	19.23	0.084	19.37	0.086	19.29	0.085		
		36	37	19.26	0.084	19.37	0.086	19.25	0.084		
		75	0	19.24	0.084	19.34	0.086	19.23	0.084		
	256QAM	1	0	17.39	0.055	17.48	0.056	17.52	0.056		
		1	36	17.39	0.055	17.48	0.056	17.33	0.054		
		1	74	17.38	0.055	17.50	0.056	17.48	0.056		
		36	0	17.27	0.053	17.38	0.055	17.33	0.054		
		36	18	17.26	0.053	17.33	0.054	17.30	0.054		
		36	37	17.24	0.053	17.33	0.054	17.30	0.054		
		75	0	17.26	0.053	17.38	0.055	17.31	0.054		
LTE Band 7											
Ant. Gain						0.29 dB i					
Limit: 2W EIRP											
BW (MHz)	Modulation	RB Size	RB Offset	20850 (2 510.0 MHz)		21100 (2 535.0 MHz)		21350 (2 560.0 MHz)		E.I.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.21	0.166	22.33	0.171	22.40	0.174	22.62	0.183
		1	50	22.27	0.169	22.34	0.171	22.27	0.169		
		1	99	22.26	0.168	22.29	0.169	22.25	0.168		
		50	0	21.24	0.133	21.32	0.136	21.31	0.135		
		50	25	21.26	0.134	21.33	0.136	21.25	0.133		
		50	50	21.23	0.133	21.29	0.135	21.22	0.132		
		100	0	21.20	0.132	21.33	0.136	21.29	0.135		
	16QAM	1	0	21.61	0.145	21.55	0.143	21.79	0.151	22.01	0.159
		1	50	21.48	0.141	21.65	0.146	21.57	0.144		
		1	99	21.48	0.141	21.59	0.144	21.54	0.143		
		50	0	20.29	0.107	20.31	0.107	20.39	0.109		
		50	25	20.27	0.106	20.35	0.108	20.29	0.107		
		50	50	20.27	0.106	20.34	0.108	20.24	0.106		
		100	0	20.23	0.105	20.38	0.109	20.24	0.106		
	64QAM	1	0	20.45	0.111	20.58	0.114	20.64	0.116		
		1	50	20.54	0.113	20.53	0.113	20.49	0.112		
		1	99	20.49	0.112	20.07	0.102	20.43	0.110		
		50	0	19.33	0.086	19.35	0.086	19.35	0.086		
		50	25	19.30	0.085	19.35	0.086	19.31	0.085		
		50	50	19.28	0.085	19.32	0.086	19.28	0.085		
		100	0	19.30	0.085	19.41	0.087	19.32	0.086		
	256QAM	1	0	17.50	0.056	17.52	0.056	17.58	0.057		
		1	50	17.42	0.055	17.53	0.057	17.50	0.056		
		1	99	17.38	0.055	17.72	0.059	17.45	0.056		
		50	0	17.31	0.054	17.36	0.054	17.43	0.055		
		50	25	17.29	0.054	17.37	0.055	17.36	0.054		
		50	50	17.33	0.054	17.37	0.055	17.26	0.053		
		100	0	17.29	0.054	17.38	0.055	17.30	0.054		

LTE Band 12														
Ant. Gain						-4.13 dB i								
Limit: 30W ERP														
BW (MHz)	Modulation	RB Size	RB Offset	23017 (677.7 MHz)		23095 (707.5 MHz)		23173 (715.3 MHz)		E.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
1.4	QPSK	1	0	23.21	0.209	23.03	0.201	23.01	0.200	17.09	0.051			
		1	3	23.37	0.217	23.21	0.209	23.10	0.204					
		1	5	23.25	0.211	23.15	0.207	23.07	0.203					
		3	0	23.20	0.209	23.05	0.202	23.05	0.202					
		3	2	23.26	0.212	23.11	0.205	22.98	0.199					
		3	3	23.24	0.211	23.00	0.200	23.03	0.201					
	16QAM	6	0	22.34	0.171	22.24	0.167	22.22	0.167	16.38	0.043			
		1	0	22.43	0.175	22.29	0.169	22.14	0.164					
		1	3	22.66	0.185	22.48	0.177	22.37	0.173					
		1	5	22.45	0.176	22.42	0.175	22.43	0.175					
		3	0	22.36	0.172	22.28	0.169	22.21	0.166					
		3	2	22.39	0.173	22.18	0.165	21.98	0.158					
	64QAM	3	3	22.45	0.176	22.21	0.166	22.00	0.158			16.38	0.043	
		6	0	21.47	0.140	21.19	0.132	21.18	0.131					
		1	0	21.69	0.148	21.31	0.135	21.50	0.141					
		1	3	21.35	0.136	21.47	0.140	21.34	0.136					
		1	5	21.42	0.139	21.13	0.130	21.26	0.134					
		3	0	21.36	0.137	21.28	0.134	21.15	0.130					
	256QAM	3	2	21.31	0.135	21.18	0.131	21.17	0.131			16.38	0.043	
		3	3	21.37	0.137	21.12	0.129	21.25	0.133					
		6	0	20.42	0.110	20.26	0.106	20.28	0.107					
		1	0	18.95	0.079	18.78	0.076	18.71	0.074					
		1	3	18.93	0.078	18.81	0.076	18.78	0.076					
		1	5	18.98	0.079	19.10	0.081	18.91	0.078					
256QAM	3	0	18.89	0.077	18.85	0.077	18.86	0.077	16.38			0.043		
	3	2	18.85	0.077	18.92	0.078	18.82	0.076						
	3	3	18.84	0.077	18.83	0.076	18.85	0.077						
	6	0	18.82	0.076	18.83	0.076	18.86	0.077						
	LTE Band 12													
	Ant. Gain						-4.13 dB i							
Limit: 30W ERP														
BW (MHz)	Modulation	RB Size	RB Offset	23025 (700.5 MHz)		23095 (707.5 MHz)		23165 (714.5 MHz)		E.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
3	QPSK	1	0	23.24	0.211	23.10	0.204	23.03	0.201	17.04	0.051			
		1	7	23.12	0.205	23.03	0.201	22.91	0.195					
		1	14	23.32	0.215	23.10	0.204	23.04	0.201					
		8	0	22.40	0.174	22.12	0.163	22.18	0.165					
		8	4	22.42	0.175	22.10	0.162	22.14	0.164					
		8	7	22.40	0.174	22.19	0.166	22.13	0.163					
	16QAM	15	0	22.45	0.176	22.22	0.167	22.16	0.164	16.47	0.044			
		1	0	22.50	0.178	22.44	0.175	22.45	0.176					
		1	7	22.75	0.188	22.63	0.183	22.47	0.177					
		1	14	22.68	0.185	22.39	0.173	22.35	0.172					
		8	0	21.48	0.141	21.21	0.132	21.13	0.130					
		8	4	21.45	0.140	21.16	0.131	21.22	0.132					
	64QAM	8	7	21.56	0.143	21.28	0.134	21.25	0.133			16.47	0.044	
		15	0	21.42	0.139	21.25	0.133	21.22	0.132					
		1	0	21.42	0.139	21.37	0.137	21.05	0.127					
		1	7	21.55	0.143	21.55	0.143	21.04	0.127					
		1	14	21.40	0.138	21.43	0.139	21.27	0.134					
		8	0	20.36	0.109	20.26	0.106	20.24	0.106					
	256QAM	8	4	20.47	0.111	20.31	0.107	20.27	0.106			16.47	0.044	
		8	7	20.50	0.112	20.29	0.107	20.36	0.109					
		15	0	20.59	0.115	20.23	0.105	20.24	0.106					
		1	0	18.79	0.076	18.60	0.072	18.70	0.074					
		1	7	18.84	0.077	18.76	0.075	18.81	0.076					
		1	14	18.86	0.077	18.84	0.077	18.85	0.077					
256QAM	8	0	18.83	0.076	18.82	0.076	18.84	0.077	16.47			0.044		
	8	4	18.85	0.077	18.77	0.075	18.81	0.076						
	8	7	18.80	0.076	18.74	0.075	18.83	0.076						
	15	0	18.82	0.076	18.72	0.074	18.79	0.076						
	LTE Band 12													

LTE Band 12/17											
Ant. Gain						-4.13 dB i					
Limit: 30W ERP											
BW (MHz)	Modulation	RB Size	RB Offset	23035 (701.5 MHz)		23095 (707.5 MHz)		23155 (713.5 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.11	0.205	23.17	0.207	23.09	0.204	16.93	0.049
		1	12	23.00	0.200	22.92	0.196	22.95	0.197		
		1	24	23.08	0.203	23.21	0.209	23.15	0.207		
		12	0	22.21	0.166	22.11	0.163	22.11	0.163		
		12	6	22.23	0.167	22.17	0.165	22.25	0.168		
		12	13	22.21	0.166	22.20	0.166	22.20	0.166		
	16QAM	25	0	22.25	0.168	22.14	0.164	22.20	0.166	16.38	0.043
		1	0	22.66	0.185	22.53	0.179	22.49	0.177		
		1	12	22.61	0.182	22.50	0.178	22.36	0.172		
		1	24	22.33	0.171	22.42	0.175	22.34	0.171		
		12	0	21.25	0.133	21.24	0.133	21.20	0.132		
		12	6	21.33	0.136	21.40	0.138	21.30	0.135		
	64QAM	12	13	21.19	0.132	21.25	0.133	21.19	0.132		
		25	0	21.14	0.130	21.23	0.133	21.18	0.131		
		1	0	21.38	0.137	21.31	0.135	21.20	0.132		
		1	12	21.46	0.140	21.18	0.131	21.15	0.130		
		1	24	21.28	0.134	21.46	0.140	21.37	0.137		
		12	0	20.20	0.105	20.27	0.106	20.17	0.104		
	256QAM	12	6	20.25	0.106	20.22	0.105	20.28	0.107		
		12	13	20.28	0.107	20.26	0.106	20.17	0.104		
		25	0	20.24	0.106	20.24	0.106	20.16	0.104		
		1	0	18.80	0.076	18.71	0.074	18.76	0.075		
		1	12	8.82	0.008	18.88	0.077	18.73	0.075		
		1	24	18.83	0.076	18.92	0.078	18.88	0.077		
	12	0	18.76	0.075	18.79	0.076	18.83	0.076			
	12	6	18.75	0.075	18.75	0.075	18.64	0.073			
	12	13	18.74	0.075	18.76	0.075	18.83	0.076			
	25	0	18.76	0.075	18.78	0.076	18.84	0.077			
	LTE Band 12/17										
Ant. Gain						-4.13 dB i					
Limit: 30W ERP											
BW (MHz)	Modulation	RB Size	RB Offset	23060 (704.0 MHz)		23095 (707.5 MHz)		23130 (711.0 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	23.43	0.220	23.10	0.204	23.15	0.207	17.24	0.053
		1	25	23.27	0.212	22.94	0.197	22.83	0.192		
		1	49	23.52	0.225	23.25	0.211	23.04	0.201		
		25	0	22.54	0.179	22.14	0.164	22.17	0.165		
		25	12	22.58	0.181	22.24	0.167	22.11	0.163		
		25	25	22.58	0.181	22.29	0.169	22.13	0.163		
	16QAM	50	0	22.52	0.179	22.21	0.166	22.25	0.168	16.37	0.043
		1	0	22.54	0.179	22.25	0.168	22.16	0.164		
		1	25	22.65	0.184	22.43	0.175	22.08	0.161		
		1	49	22.63	0.183	22.51	0.178	22.54	0.179		
		25	0	21.56	0.143	21.21	0.132	21.15	0.130		
		25	12	21.50	0.141	21.14	0.130	21.18	0.131		
	64QAM	25	25	21.61	0.145	21.22	0.132	21.18	0.131		
		50	0	21.55	0.143	21.14	0.130	21.16	0.131		
		1	0	21.66	0.147	21.15	0.130	21.44	0.139		
		1	25	21.58	0.144	21.53	0.142	21.30	0.135		
		1	49	21.92	0.156	21.30	0.135	21.34	0.136		
		25	0	20.55	0.114	20.19	0.104	20.20	0.105		
	256QAM	25	12	20.56	0.114	20.22	0.105	20.16	0.104		
		25	25	20.53	0.113	20.20	0.105	20.17	0.104		
		50	0	20.60	0.115	20.25	0.106	20.21	0.105		
		1	0	18.78	0.076	18.74	0.075	18.77	0.075		
		1	25	18.77	0.075	17.76	0.060	18.75	0.075		
		1	49	18.85	0.077	18.81	0.076	18.79	0.076		
		25	0	18.82	0.076	18.77	0.075	18.76	0.075		
		25	12	18.85	0.077	18.79	0.076	18.78	0.076		
		25	25	18.83	0.076	18.84	0.077	18.84	0.077		
		50	0	18.84	0.077	18.92	0.078	18.73	0.075		

LTE Band 13																
Ant. Gain						-1.27 dB i										
Limit: 30W ERP																
BW (MHz)	Modulation	RB Size	RB Offset	23205 (779.5 MHz)		23230 (782.0 MHz)		23255 (784.5 MHz)		E.R.P						
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)					
5	QPSK	1	0	23.52	0.225	23.69	0.234	23.55	0.226	20.27	0.106					
		1	12	23.32	0.215	23.60	0.229	23.48	0.223							
		1	24	23.53	0.225	23.56	0.227	23.46	0.222							
		12	0	22.63	0.183	22.67	0.185	22.53	0.179							
		12	6	22.60	0.182	22.65	0.184	22.51	0.178							
		12	13	22.60	0.182	22.67	0.185	22.52	0.179							
	16QAM	25	0	22.66	0.185	22.67	0.185	22.52	0.179	19.53	0.090					
		1	0	22.49	0.177	22.89	0.195	22.73	0.187							
		1	12	22.86	0.193	22.94	0.197	22.79	0.190							
		1	24	22.74	0.188	22.95	0.197	22.81	0.191							
		12	0	21.47	0.140	21.67	0.147	21.55	0.143							
		12	6	21.55	0.143	21.63	0.146	21.52	0.142							
	64QAM	12	13	21.55	0.143	21.66	0.147	21.53	0.142			256QAM	18.55	0.072		
		25	0	21.55	0.143	21.64	0.146	21.50	0.141							
		1	0	21.44	0.139	21.84	0.153	21.66	0.147							
		1	12	21.72	0.149	21.82	0.152	21.68	0.147							
		1	24	21.73	0.149	21.87	0.154	21.72	0.149							
		12	0	20.59	0.115	20.66	0.116	20.51	0.112							
	256QAM	12	6	20.68	0.117	20.65	0.116	20.53	0.113						18.61	0.073
		12	13	20.64	0.116	20.62	0.115	20.48	0.112							
		25	0	20.62	0.115	20.65	0.116	20.53	0.113							
		1	0	18.55	0.072	18.81	0.076	18.66	0.073							
		1	12	18.61	0.073	18.78	0.076	18.63	0.073							
		1	24	18.79	0.076	18.81	0.076	18.64	0.073							
12		0	18.63	0.073	18.66	0.073	18.52	0.071								
12		6	18.64	0.073	18.67	0.074	18.53	0.071								
256QAM	12	13	18.65	0.073	18.69	0.074	18.51	0.071	18.64	0.073						
	25	0	18.64	0.073	18.69	0.074	18.52	0.071								

LTE Band 13																
Ant. Gain						-1.27 dB i										
Limit: 30W ERP																
BW (MHz)	Modulation	RB Size	RB Offset			23230 (782.0 MHz)				E.R.P						
						(dB m)	(W)			(dB m)	(W)					
10	QPSK	1	0			23.56	0.227			20.15	0.104					
		1	25			23.47	0.222									
		1	49			23.57	0.228									
		25	0			22.73	0.187									
		25	12			22.68	0.185									
		25	25			22.63	0.183									
	16QAM	50	0			22.72	0.187			19.35	0.086					
		1	0			22.56	0.180									
		1	25			22.69	0.186									
		1	49			22.77	0.189									
		25	0			21.66	0.147									
		25	12			21.63	0.146									
	64QAM	25	25			21.62	0.145					256QAM	18.75	0.075		
		50	0			21.68	0.147									
		1	0			21.49	0.141									
		1	25			21.69	0.148									
		1	49			21.77	0.150									
		25	0			20.68	0.117									
	256QAM	25	12			20.68	0.117								18.74	0.075
		25	25			20.64	0.116									
		50	0			20.68	0.117									
		1	0			18.75	0.075									
		1	25			18.74	0.075									
		1	49			18.75	0.075									
	25	0			18.70	0.074			18.71	0.074						
	25	12			18.71	0.074										
	25	25			18.68	0.074										
	50	0			18.71	0.074										

LTE Band 14											
Ant. Gain					0.13 dB i						
Limit: 30W ERP											
BW (MHz)	Modulation	RB Size	RB Offset	23305 (790.5 MHz)		23330 (793.0 MHz)		23355 (795.5 MHz)		E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.77	0.238	23.74	0.237	23.72	0.236	21.75	0.150
		1	12	23.69	0.234	23.54	0.226	23.51	0.224		
		1	24	23.52	0.225	23.62	0.230	23.67	0.233		
		12	0	22.80	0.191	22.79	0.190	22.74	0.188		
		12	6	22.72	0.187	22.62	0.183	22.70	0.186		
		12	13	22.68	0.185	22.67	0.185	22.70	0.186		
	16QAM	25	0	22.71	0.187	22.63	0.183	22.77	0.189	21.13	0.130
		1	0	22.95	0.197	23.15	0.207	22.96	0.198		
		1	12	23.15	0.207	22.82	0.191	22.98	0.199		
		1	24	23.02	0.200	22.76	0.189	22.93	0.196		
		12	0	21.84	0.153	21.79	0.151	21.77	0.150		
		12	6	21.79	0.151	21.76	0.150	21.81	0.152		
	64QAM	12	13	21.76	0.150	21.76	0.150	21.82	0.152		
		25	0	21.78	0.151	21.77	0.150	21.70	0.148		
		1	0	22.01	0.159	22.09	0.162	21.85	0.153		
		1	12	21.96	0.157	21.91	0.155	21.72	0.149		
		1	24	21.85	0.153	21.65	0.146	21.99	0.158		
		12	0	20.85	0.122	20.77	0.119	20.84	0.121		
	256QAM	12	6	20.75	0.119	20.74	0.119	20.91	0.123		
		12	13	20.70	0.117	20.69	0.117	20.64	0.116		
		25	0	20.81	0.121	20.71	0.118	20.69	0.117		
		1	0	18.92	0.078	18.70	0.074	18.59	0.072		
		1	12	18.93	0.078	18.87	0.077	18.82	0.076		
		1	24	19.12	0.082	18.94	0.078	18.93	0.078		
	12	6	18.77	0.075	18.90	0.078	18.75	0.075			
	12	13	18.81	0.076	18.87	0.077	18.83	0.076			
	25	0	18.99	0.079	18.64	0.073	18.98	0.079			

LTE Band 14											
Ant. Gain					0.13 dB i						
Limit: 30W ERP											
BW (MHz)	Modulation	RB Size	RB Offset			23330 (793.0 MHz)				E.R.P	
						(dB m)	(W)			(dB m)	(W)
10	QPSK	1	0			23.84	0.242			21.82	0.152
		1	25			23.64	0.231				
		1	49			23.58	0.228				
		25	0			22.86	0.193				
		25	12			22.77	0.189				
		25	25			22.68	0.185				
	16QAM	50	0			22.74	0.188			21.09	0.129
		1	0			23.09	0.204				
		1	25			23.11	0.205				
		1	49			22.95	0.197				
		25	0			21.75	0.150				
		25	12			21.71	0.148				
	64QAM	25	25			21.70	0.148				
		50	0			21.71	0.148				
		1	0			21.86	0.153				
		1	25			21.78	0.151				
		1	49			21.80	0.151				
		25	0			20.87	0.122				
	256QAM	25	12			20.69	0.117				
		25	25			20.66	0.116				
		50	0			20.69	0.117				
		1	0			18.67	0.074				
		1	25			18.73	0.075				
		1	49			18.85	0.077				
	25	0			18.80	0.076					
	25	12			18.84	0.077					
	25	25			18.97	0.079					
	50	0			23.84	0.242					

LTE Band 71														
Ant. Gain						-7.25 dB i								
Limit: 3W ERP														
BW (MHz)	Modulation	RB Size	RB Offset	133147 (665.5 MHz)		133297 (680.5 MHz)		133447 (695.5 MHz)		E.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
5	QPSK	1	0	22.71	0.187	23.00	0.200	23.00	0.200	13.61	0.023			
		1	12	22.52	0.179	22.96	0.198	22.91	0.195					
		1	24	22.64	0.184	23.01	0.200	23.01	0.200					
		12	0	21.68	0.147	22.02	0.159	22.00	0.158					
		12	6	21.66	0.147	22.03	0.160	21.93	0.156					
		12	13	21.69	0.148	22.00	0.158	21.90	0.155					
	16QAM	25	0	21.66	0.147	22.06	0.161	21.92	0.156					
		1	0	21.83	0.152	22.41	0.174	22.20	0.166					
		1	12	21.85	0.153	22.33	0.171	22.22	0.167					
		1	24	21.91	0.155	22.28	0.169	22.20	0.166					
		12	0	20.70	0.117	21.03	0.127	21.23	0.133					
		12	6	20.76	0.119	21.03	0.127	21.14	0.130					
	64QAM	12	13	20.75	0.119	21.04	0.127	21.14	0.130					
		25	0	20.69	0.117	21.04	0.127	21.22	0.132					
		1	0	20.80	0.120	21.26	0.134	21.14	0.130					
		1	12	20.71	0.118	21.27	0.134	21.23	0.133					
		1	24	20.88	0.122	21.29	0.135	21.13	0.130					
		12	0	19.70	0.093	20.03	0.101	20.11	0.103					
	256QAM	12	6	19.72	0.094	20.05	0.101	20.17	0.104					
		12	13	19.71	0.094	20.05	0.101	20.13	0.103					
		25	0	19.69	0.093	20.03	0.101	20.15	0.104					
		1	0	17.89	0.062	18.19	0.066	18.17	0.066					
		1	12	17.70	0.059	18.14	0.065	18.23	0.067					
		1	24	17.91	0.062	18.17	0.066	18.18	0.066					
	12	0	17.77	0.060	18.09	0.064	18.14	0.065						
	12	6	17.76	0.060	18.03	0.064	18.10	0.065						
	12	13	17.73	0.059	18.06	0.064	18.14	0.065						
	25	0	17.72	0.059	18.06	0.064	18.22	0.066						
	LTE Band 71													
	Ant. Gain						-7.25 dB i							
Limit: 3W ERP														
BW (MHz)	Modulation	RB Size	RB Offset	133172 (668.0 MHz)		133297 (680.5 MHz)		133422 (693.0 MHz)		E.R.P				
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)			
10	QPSK	1	0	22.65	0.184	23.00	0.200	22.96	0.198	13.61	0.023			
		1	25	22.68	0.185	22.91	0.195	22.96	0.198					
		1	49	22.80	0.191	23.01	0.200	22.97	0.198					
		25	0	21.70	0.148	22.03	0.160	21.99	0.158					
		25	12	21.66	0.147	22.05	0.160	21.96	0.157					
		25	25	21.70	0.148	22.04	0.160	22.00	0.158					
	16QAM	50	0	21.69	0.148	22.04	0.160	22.02	0.159					
		1	0	22.00	0.158	22.24	0.167	22.22	0.167					
		1	25	21.91	0.155	22.32	0.171	22.27	0.169					
		1	49	22.05	0.160	22.23	0.167	22.18	0.165					
		25	0	20.75	0.119	21.04	0.127	20.98	0.125					
		25	12	20.74	0.119	21.02	0.126	21.00	0.126					
	64QAM	25	25	20.75	0.119	21.05	0.127	20.98	0.125					
		50	0	20.72	0.118	21.05	0.127	21.04	0.127					
		1	0	20.91	0.123	21.23	0.133	21.22	0.132					
		1	25	20.98	0.125	21.16	0.131	21.19	0.132					
		1	49	20.80	0.120	21.15	0.130	21.16	0.131					
		25	0	19.73	0.094	20.05	0.101	20.04	0.101					
	256QAM	25	12	19.74	0.094	20.04	0.101	20.02	0.100					
		25	25	19.74	0.094	20.05	0.101	20.02	0.100					
		50	0	19.77	0.095	20.11	0.103	20.02	0.100					
		1	0	17.96	0.063	18.17	0.066	18.18	0.066					
		1	25	17.90	0.062	18.00	0.063	18.15	0.065					
		1	49	17.55	0.057	18.18	0.066	18.14	0.065					
	25	0	17.80	0.060	18.07	0.064	18.05	0.064						
	25	12	17.75	0.060	18.12	0.065	17.98	0.063						
	25	25	17.73	0.059	18.07	0.064	18.04	0.064						
	50	0	17.76	0.060	18.10	0.065	18.08	0.064						
	LTE Band 71													

LTE Band 71																	
Ant. Gain						-7.25 dB i											
Limit: 3W ERP																	
BW (MHz)	Modulation	RB Size	RB Offset	133197 (670.5 MHz)		133297 (680.5 MHz)		133397 (690.5 MHz)		E.R.P							
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)						
15	QPSK	1	0	22.74	0.188	23.04	0.201	22.99	0.199	13.64	0.023						
		1	36	22.74	0.188	23.01	0.200	22.88	0.194								
		1	74	22.73	0.187	23.03	0.201	22.90	0.195								
		36	0	21.75	0.150	22.02	0.159	21.99	0.158								
		36	18	21.77	0.150	22.07	0.161	22.01	0.159								
		36	37	21.75	0.150	22.06	0.161	22.03	0.160								
		75	0	21.76	0.150	22.03	0.160	22.01	0.159								
	16QAM	1	0	21.95	0.157	22.30	0.170	22.23	0.167	12.92	0.020						
		1	36	21.98	0.158	22.32	0.171	22.17	0.165								
		1	74	21.99	0.158	22.27	0.169	22.27	0.169								
		36	0	20.81	0.121	21.05	0.127	20.97	0.125								
		36	18	20.83	0.121	21.06	0.128	21.03	0.127								
		36	37	20.82	0.121	21.06	0.128	21.03	0.127								
		75	0	20.79	0.120	21.05	0.127	21.03	0.127								
	64QAM	1	0	20.94	0.124	21.26	0.134	21.18	0.131			12.92	0.020				
		1	36	20.94	0.124	21.23	0.133	21.12	0.129								
		1	74	20.98	0.125	21.26	0.134	21.18	0.131								
		36	0	19.81	0.096	20.03	0.101	19.99	0.100								
		36	18	19.79	0.095	20.05	0.101	20.02	0.100								
		36	37	19.84	0.096	20.04	0.101	20.01	0.100								
		75	0	19.80	0.095	20.06	0.101	20.06	0.101								
	256QAM	1	0	17.95	0.062	18.12	0.065	18.16	0.065					12.92	0.020		
		1	36	17.99	0.063	18.21	0.066	18.12	0.065								
		1	74	17.94	0.062	18.16	0.065	18.11	0.065								
		36	0	17.87	0.061	18.03	0.064	18.02	0.063								
		36	18	17.84	0.061	18.03	0.064	18.05	0.064								
		36	37	17.83	0.061	18.07	0.064	18.07	0.064								
		75	0	17.82	0.061	18.07	0.064	18.07	0.064								
LTE Band 71																	
Ant. Gain						-7.25 dB i											
Limit: 3W ERP																	
BW (MHz)	Modulation	RB Size	RB Offset	133222 (673.0 MHz)		133297 (680.5 MHz)		133372 (688.0 MHz)								E.R.P	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)							(dB m)	(W)
20	QPSK	1	0	22.77	0.189	22.98	0.199	23.01	0.200							13.71	0.023
		1	50	22.79	0.190	22.98	0.199	22.95	0.197								
		1	99	22.82	0.191	23.11	0.205	22.97	0.198								
		50	0	21.85	0.153	22.01	0.159	22.03	0.160								
		50	25	21.82	0.152	22.02	0.159	22.00	0.158								
		50	50	21.83	0.152	22.03	0.160	22.00	0.158								
		100	0	21.86	0.153	22.03	0.160	22.01	0.159								
	16QAM	1	0	22.04	0.160	22.29	0.169	22.31	0.170	12.92	0.020						
		1	50	22.13	0.163	22.27	0.169	22.20	0.166								
		1	99	22.14	0.164	22.32	0.171	22.26	0.168								
		50	0	20.88	0.122	21.03	0.127	21.02	0.126								
		50	25	20.84	0.121	21.02	0.126	20.98	0.125								
		50	50	20.86	0.122	21.06	0.128	20.97	0.125								
		100	0	20.83	0.121	21.04	0.127	20.98	0.125								
	64QAM	1	0	21.03	0.127	21.22	0.132	21.20	0.132			12.92	0.020				
		1	50	21.01	0.126	21.24	0.133	21.24	0.133								
		1	99	21.03	0.127	21.33	0.136	21.24	0.133								
		50	0	19.88	0.097	20.06	0.101	20.01	0.100								
		50	25	19.86	0.097	20.05	0.101	20.01	0.100								
		50	50	19.87	0.097	20.05	0.101	20.06	0.101								
		100	0	19.85	0.097	20.07	0.102	20.03	0.101								
	256QAM	1	0	18.03	0.064	18.20	0.066	18.19	0.066					12.92	0.020		
		1	50	18.01	0.063	18.14	0.065	18.17	0.066								
		1	99	18.01	0.063	17.95	0.062	18.15	0.065								
		50	0	17.93	0.062	18.04	0.064	18.04	0.064								
		50	25	17.86	0.061	18.06	0.064	18.03	0.064								
		50	50	17.94	0.062	18.09	0.064	18.02	0.063								
		100	0	17.91	0.062	18.05	0.064	18.02	0.063								

4. Occupied Bandwidth

4.1. Limit

CFR 47, Section FCC §2.1049 and IC RSS-Gen Issue 5 6.7.

4.2. Test Procedure

FCC

The test follows section 5.4.4 of ANSI C63.26-2015.

- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation. products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- b. The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. Set the detection mode to peak, and the trace mode to max-hold.
- e. If the instrument does not have a 99 % OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5 % of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5 % of the total is reached and record that frequency as the upper OBW frequency. The 99 % power OBW can be determined by computing the difference these two frequencies.
- f. The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

IC

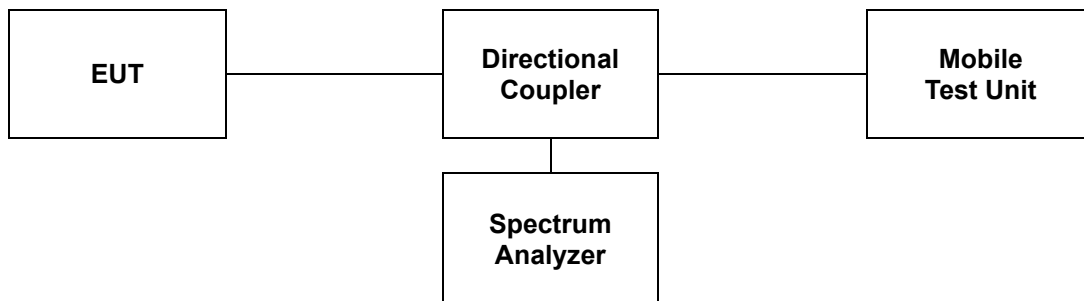
The test follows section 6.7 of RSS-Gen Issue 5.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99 % emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99 % emission bandwidth).



4.3 Test Results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 %

WCDMA

Band	Mode	Frequency (MHz)	Occupied Bandwidth (MHz)
WCDMA II	RMC	1 852.4	4.126
		1 880.0	4.166
		1 907.6	4.156
	HSUPA	1 852.4	4.182
		1 880.0	4.153
		1 907.6	4.182
WCDMA IV	RMC	1 712.4	4.186
		1 732.6	4.176
		1 752.6	4.176
	HSUPA	1 712.4	4.168
		1 732.6	4.182
		1 752.6	4.168
WCDMA V	RMC	826.4	4.166
		836.6	4.176
		846.6	4.186
	HSDPA	826.4	4.156
		836.6	4.166
		846.6	4.176

LTE

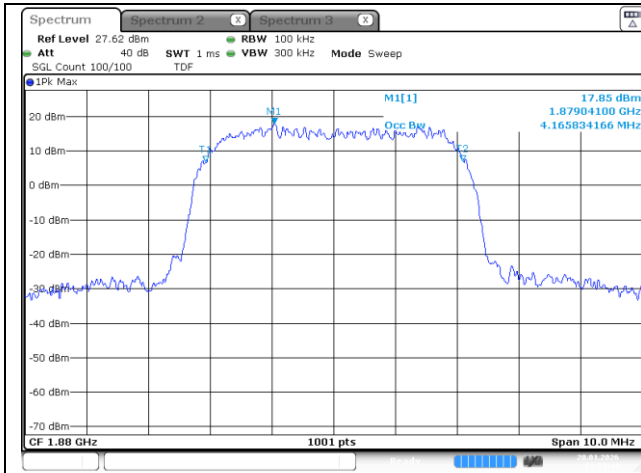
Band	Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
			QPSK	16QAM
25/2	1.4	1 850.7	1.103	1.103
		1 882.5	1.094	1.091
		1 914.3	1.094	1.115
	3	1 851.5	2.676	2.688
		1 882.5	2.688	2.682
		1 913.5	2.688	2.688
	5	1 852.5	4.505	4.496
		1 882.5	4.496	4.496
		1 912.5	4.496	4.505
	10	1 855.0	8.940	8.920
		1 882.5	8.920	8.920
		1 910.0	8.940	8.920
	15	1 857.5	13.440	13.470
		1 882.5	13.530	13.470
		1 907.5	13.500	13.410
	20	1 860.0	17.840	17.840
		1 882.5	17.840	17.920
		1 905.0	17.920	17.840
66/4	1.4	1 710.7	1.091	1.094
		1 745.0	1.097	1.091
		1 779.3	1.097	1.103
	3	1 711.5	2.682	2.688
		1 745.0	2.688	2.682
		1 778.5	2.676	2.682
	5	1 712.5	4.505	4.515
		1 745.0	4.515	4.505
		1 777.5	4.515	4.505
	10	1 715.0	8.920	8.940
		1 745.0	8.920	8.940
		1 775.0	8.940	8.920
	15	1 717.5	13.440	13.440
		1 745.0	13.440	13.470
		1 772.5	13.500	13.440
	20	1 720.0	17.880	17.880
		1 745.0	17.880	17.880
		1 770.0	17.960	17.920

Band	Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
			QPSK	16QAM
26/5 Part 22	1.4	824.7	1.088	1.103
		836.5	1.091	1.091
		848.3	1.094	1.109
	3	825.5	2.688	2.700
		836.5	2.676	2.682
		847.5	2.688	2.694
	5	826.5	4.496	4.496
		836.5	4.496	4.496
		846.5	4.515	4.515
	10	829.0	8.940	8.940
		836.5	8.940	8.940
		844.0	8.920	8.920
26 Part 22	15	831.5	13.500	13.440
		841.5	13.410	13.440
26 Part 90	1.4	814.7	1.097	1.094
		819.0	1.103	1.091
		823.3	1.094	1.103
	3	815.5	2.682	2.664
		819.0	2.676	2.670
		822.5	2.676	2.676
	5	816.5	4.505	4.496
		819.0	4.505	4.505
		821.5	4.515	4.496
	10	819.0	8.940	8.920
7	5	2 502.5	4.525	4.515
		2 535.0	4.505	4.505
		2 567.5	4.505	4.515
	10	2 505.0	8.940	8.940
		2 535.0	8.920	8.940
		2 565.0	8.940	8.940
	15	2 507.5	13.410	13.470
		2 535.0	13.530	13.500
		2 562.5	13.470	13.440
	20	2 510.0	17.880	17.920
		2 535.0	17.960	17.880
		2 560.0	17.880	17.920

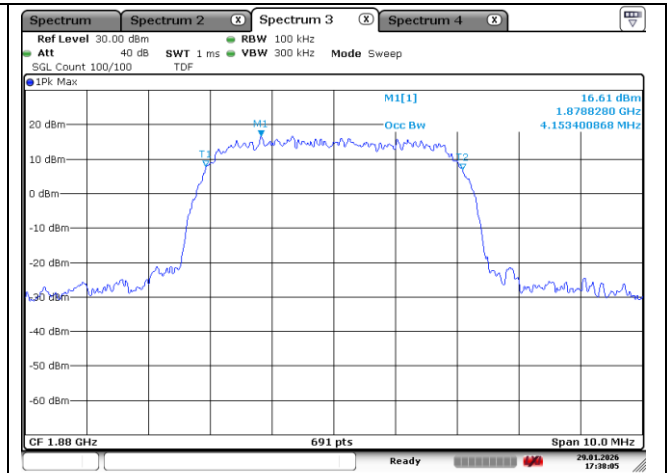
Band	Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
			QPSK	16QAM
12	1.4	699.7	1.097	1.088
		707.5	1.097	1.097
		715.3	1.100	1.103
	3	700.5	2.682	2.670
		707.5	2.682	2.700
		714.5	2.682	2.700
12/17	5	701.5	4.496	4.496
		707.5	4.505	4.496
		713.5	4.525	4.505
	10	704.0	8.940	8.970
		707.5	8.940	8.940
		711.0	8.940	8.940
13	5	779.5	4.496	4.496
		782.0	4.515	4.505
		784.5	4.515	4.505
	10	782.0	8.900	8.940
14	5	790.5	4.505	4.496
		793.0	4.515	4.496
		795.5	4.486	4.505
	10	793.0	8.920	8.940
71	5	665.5	4.505	4.476
		680.5	4.515	4.505
		695.5	4.525	4.515
	10	668.0	9.100	8.940
		680.5	8.940	8.940
		693.0	8.940	8.920
	15	670.5	13.440	13.470
		680.5	13.410	13.440
		690.5	13.500	13.470
	20	673.0	18.000	18.000
		680.5	18.000	17.920
		688.0	17.880	18.000

- Test plots

WCDMA II

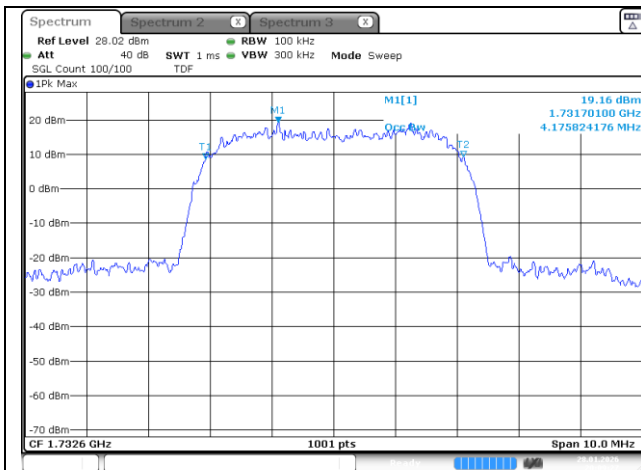


WCDMA II RMC Middle Channel

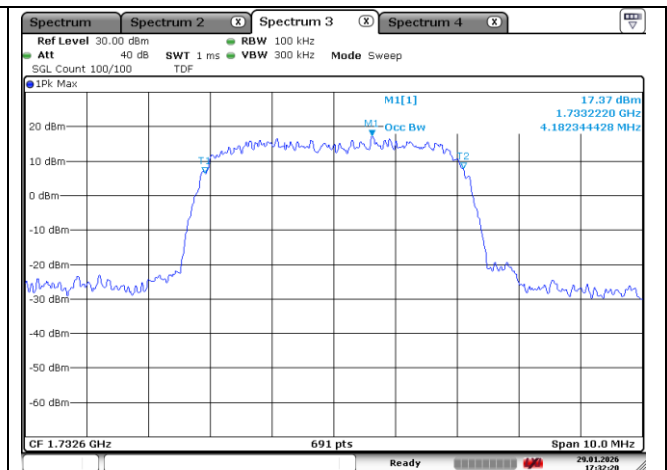


WCDMA II HSUPA Middle Channel

WCDMA IV

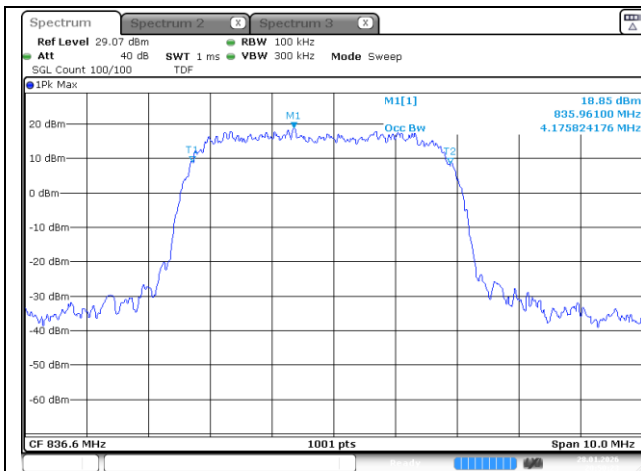


WCDMA IV RMC Middle Channel

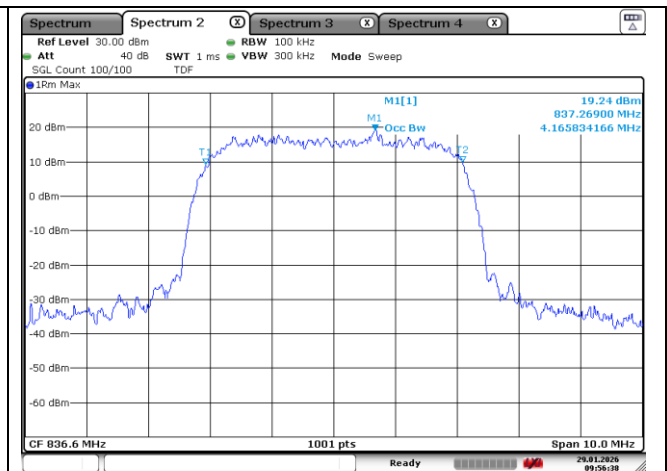


WCDMA IV HSUPA Middle Channel

WCDMA V

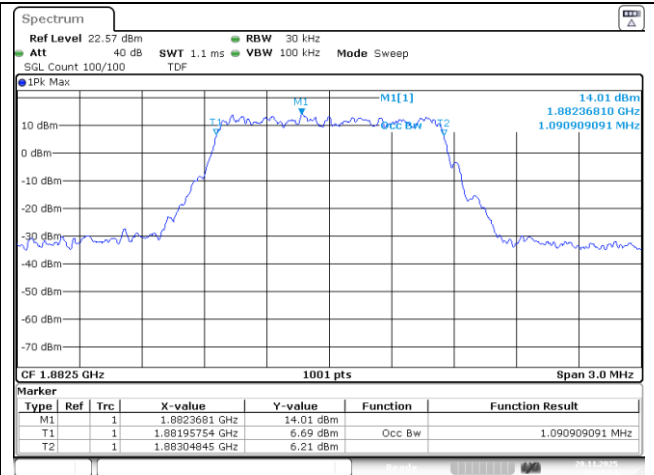
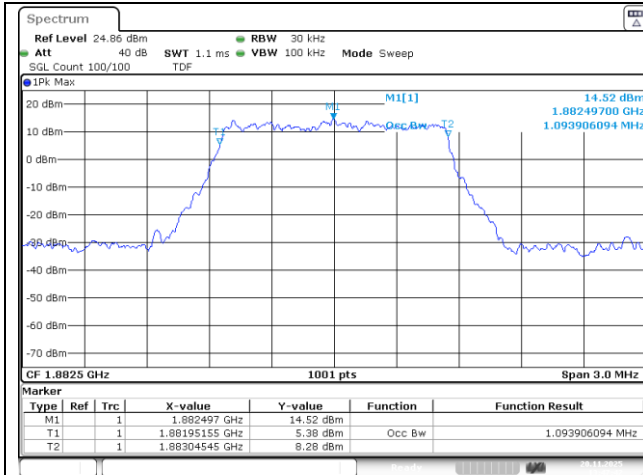


WCDMA V RMC Middle Channel

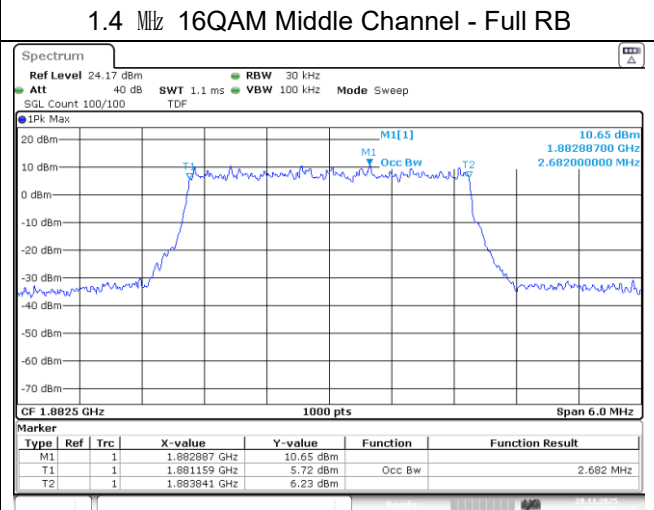
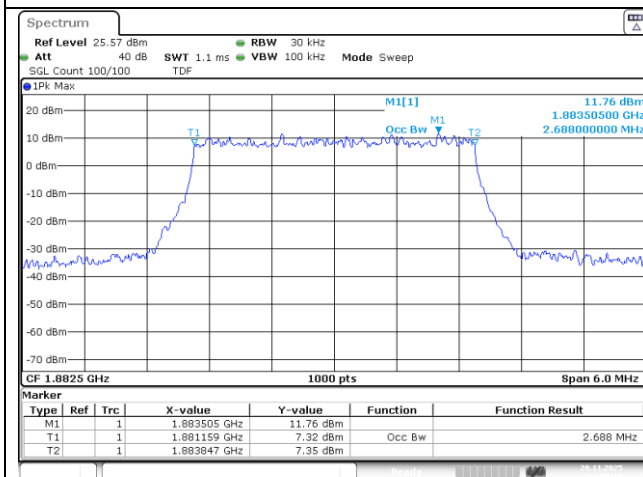


WCDMA V HSDPA Middle Channel

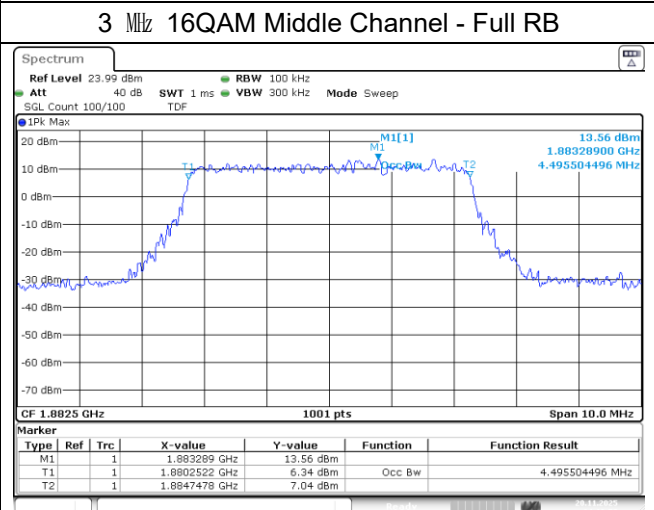
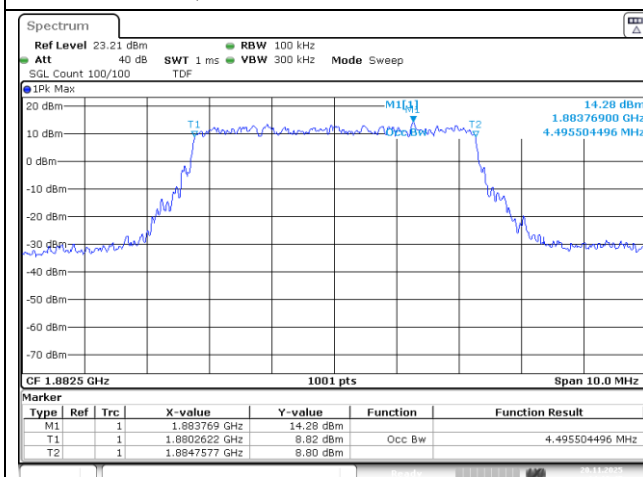
LTE band 25/2



1.4 MHz QPSK Middle Channel - Full RB



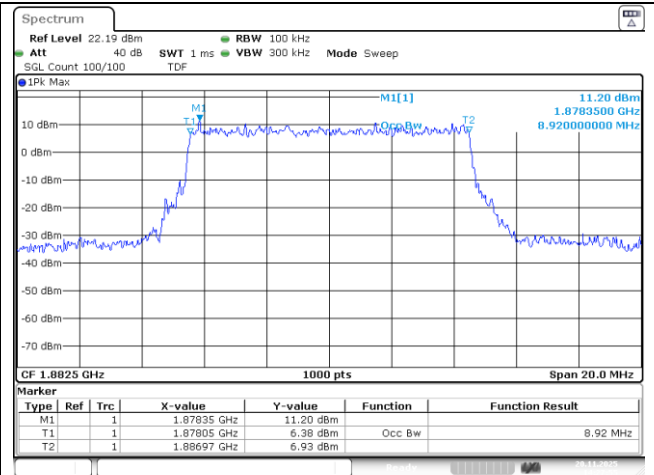
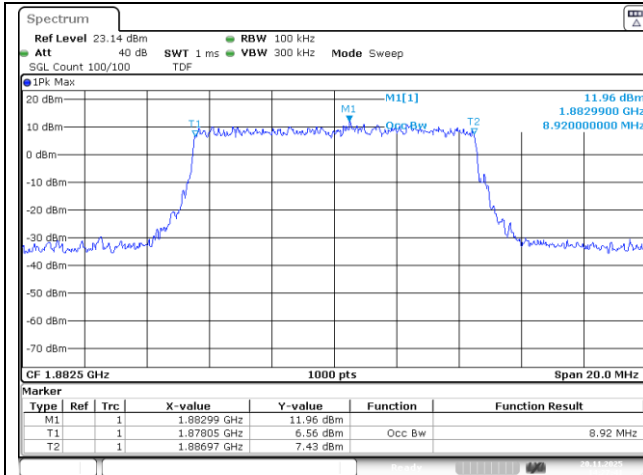
3 MHz QPSK Middle Channel - Full RB



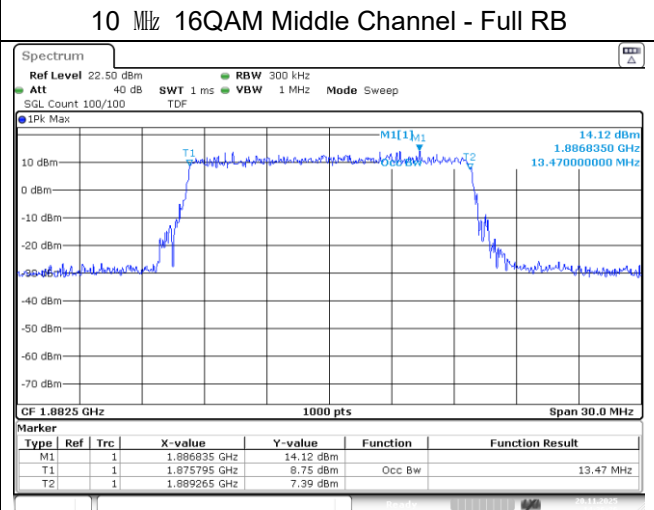
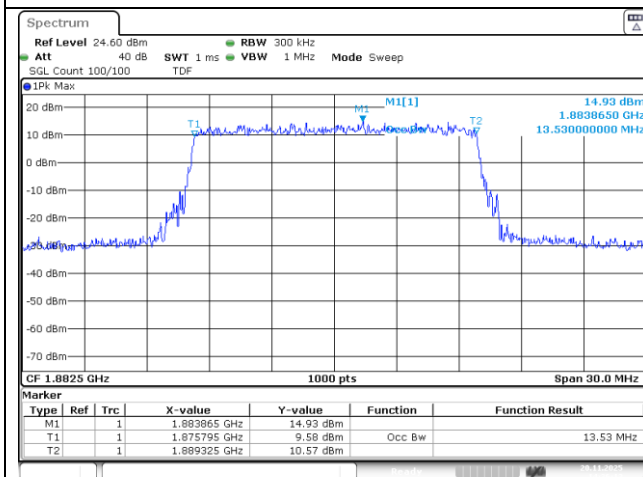
5 MHz QPSK Middle Channel - Full RB

5 MHz 16QAM Middle Channel - Full RB

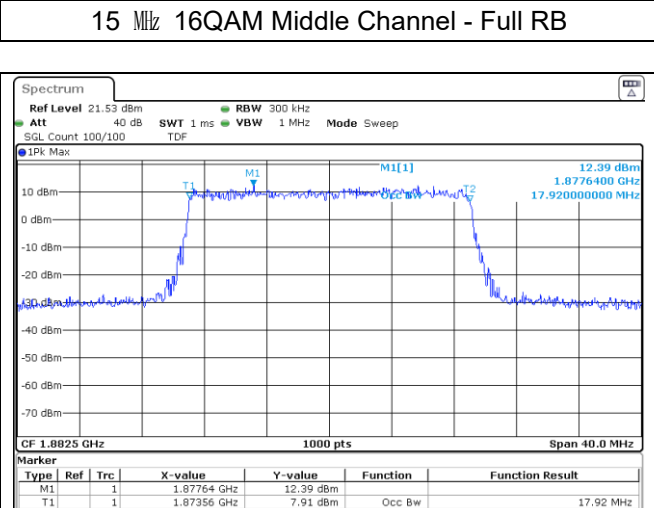
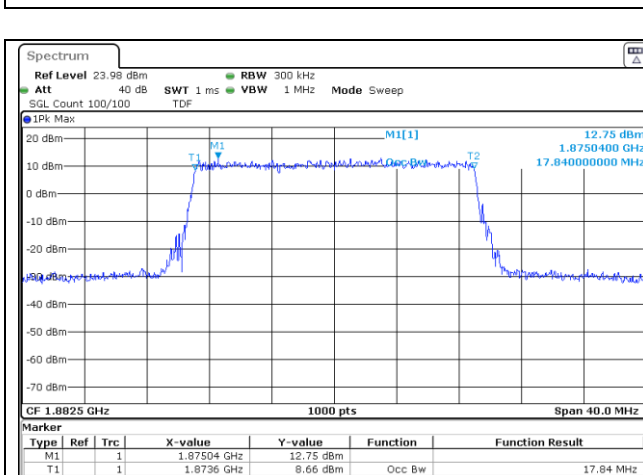
LTE band 25/2



10 MHz QPSK Middle Channel - Full RB



15 MHz QPSK Middle Channel - Full RB



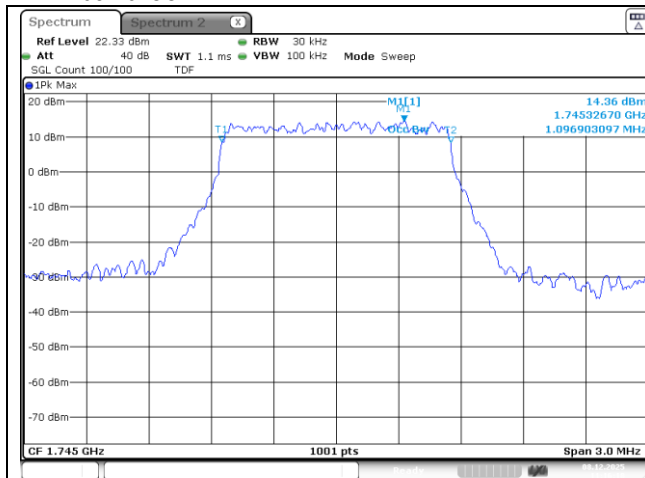
20 MHz QPSK Middle Channel - Full RB



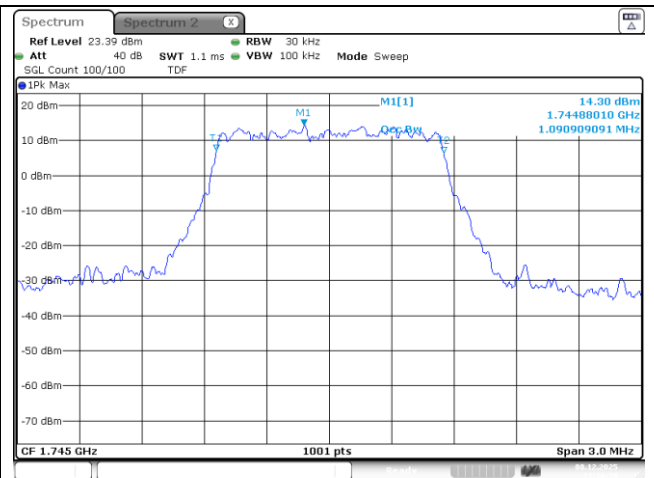
20 MHz 16QAM Middle Channel - Full RB



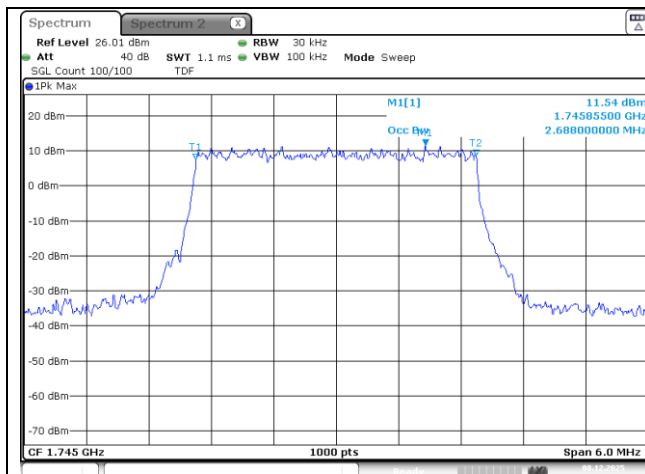
LTE band 66/4



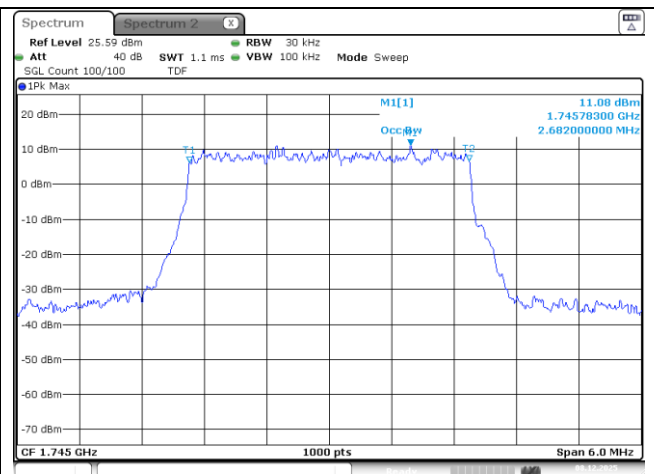
1.4 MHz QPSK Middle Channel - Full RB



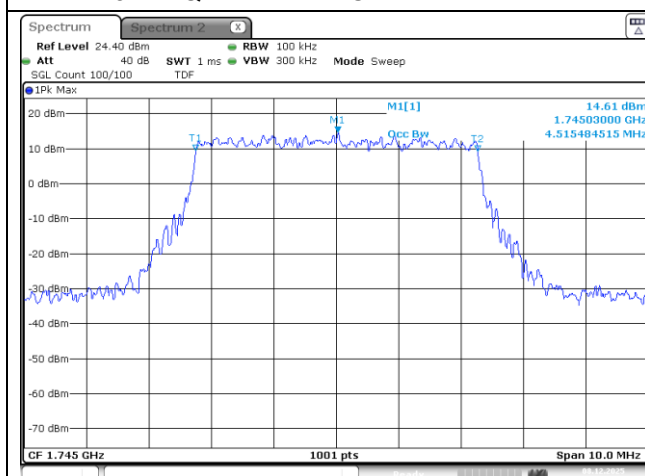
1.4 MHz 16QAM Middle Channel - Full RB



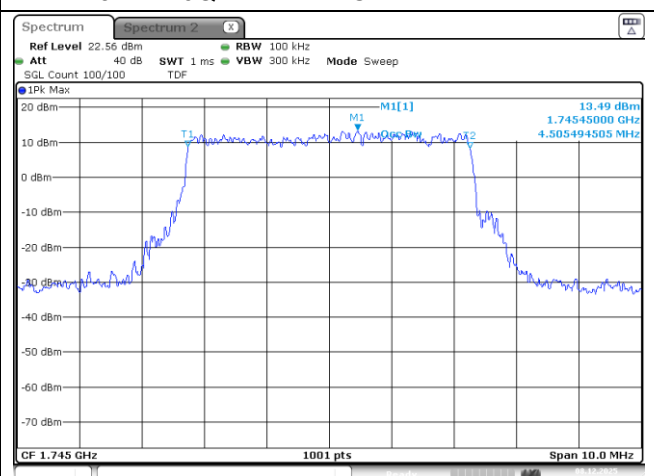
3 MHz QPSK Middle Channel - Full RB



3 MHz 16QAM Middle Channel - Full RB

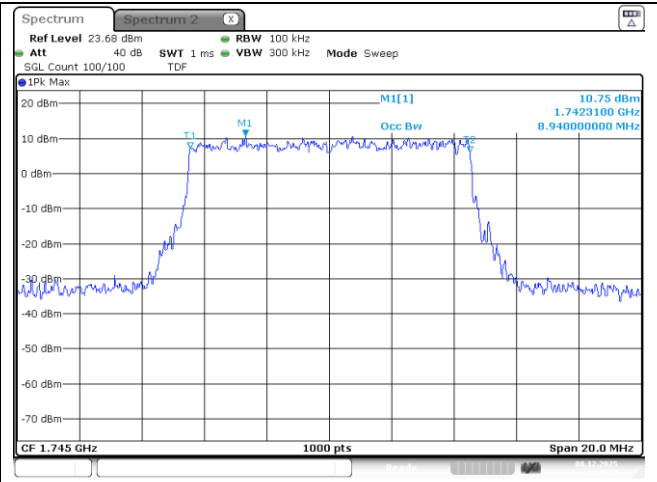
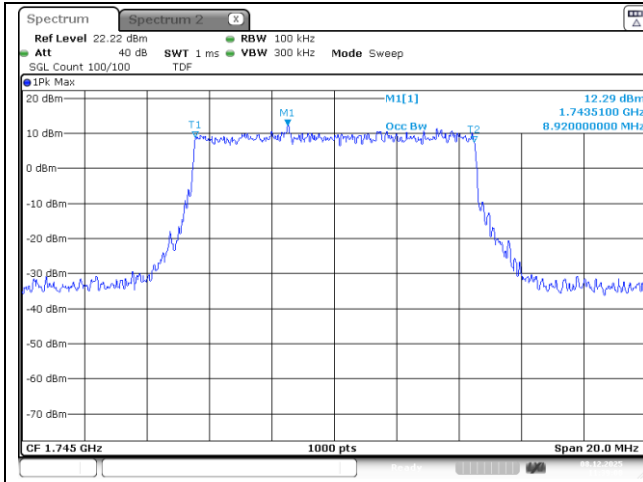


5 MHz QPSK Middle Channel - Full RB

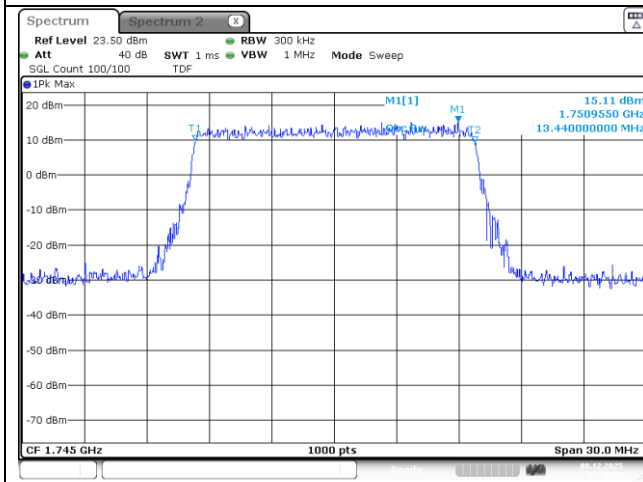


5 MHz 16QAM Middle Channel - Full RB

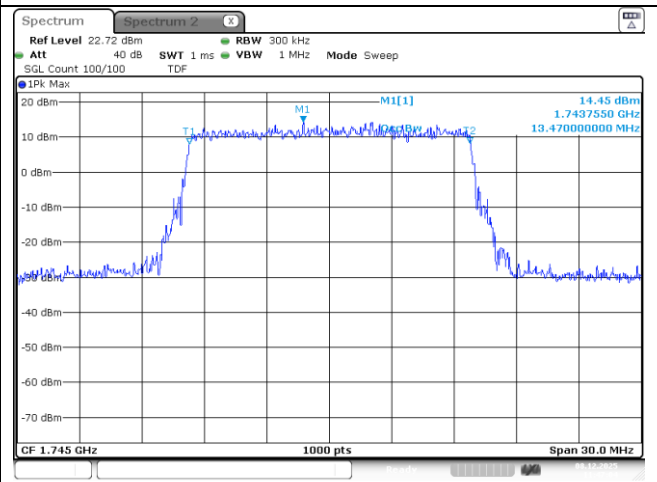
LTE band 66/4



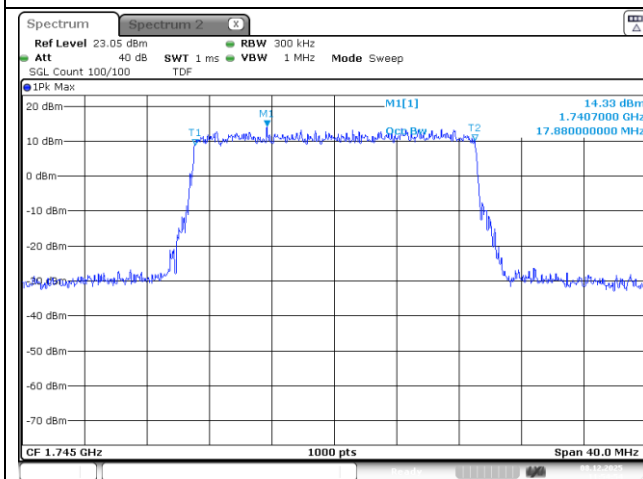
10 MHz QPSK Middle Channel - Full RB



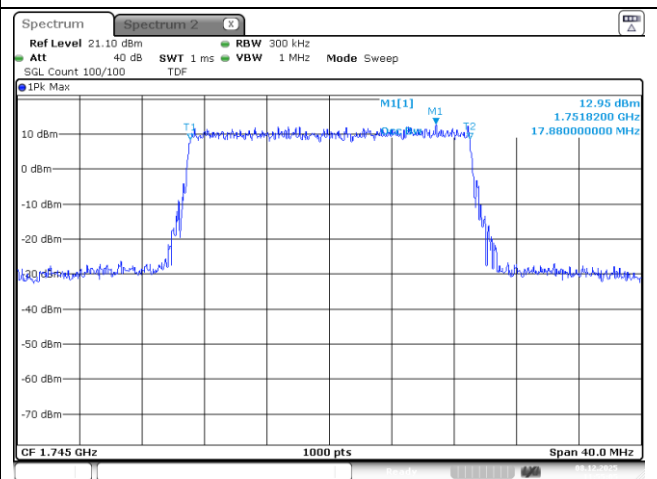
10 MHz 16QAM Middle Channel - Full RB



15 MHz QPSK Middle Channel - Full RB



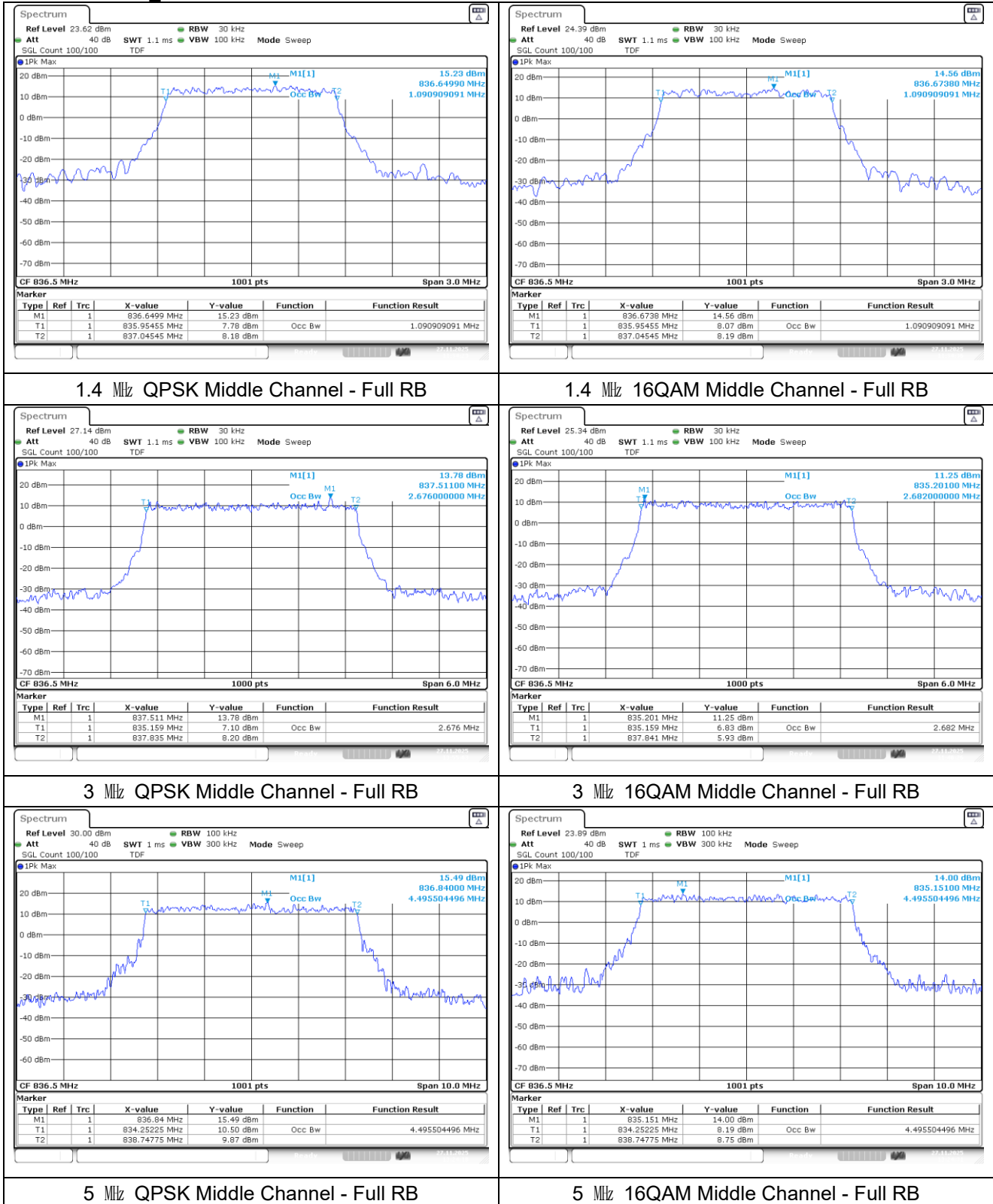
15 MHz 16QAM Middle Channel - Full RB



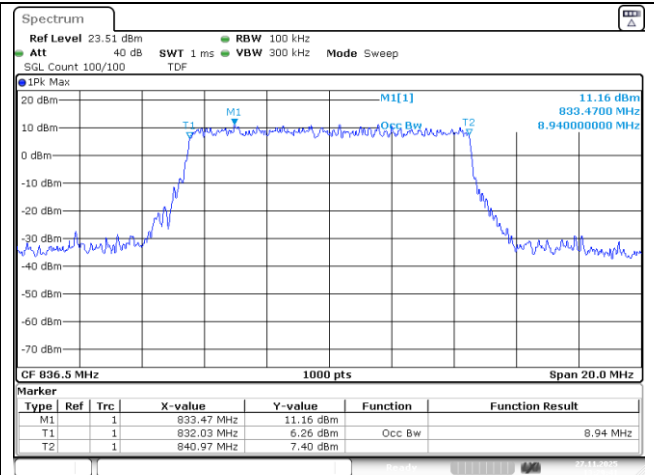
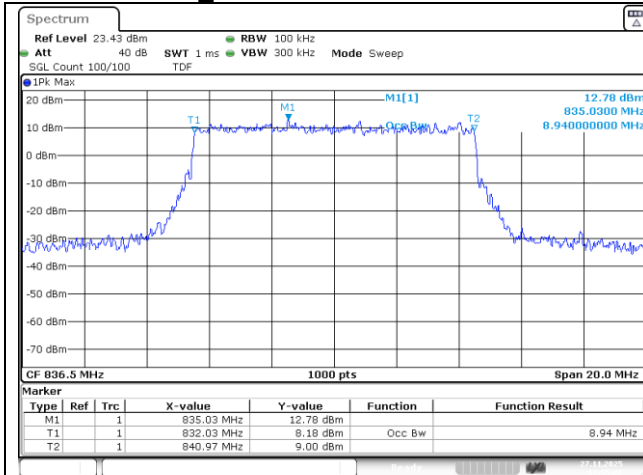
20 MHz QPSK Middle Channel - Full RB

20 MHz 16QAM Middle Channel - Full RB

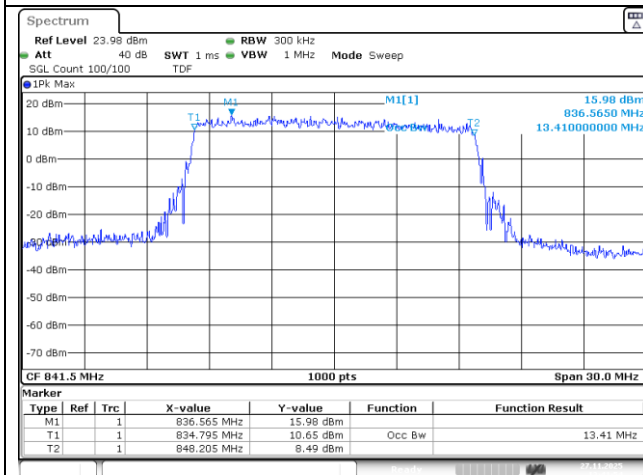
LTE band 26/5 Part 22



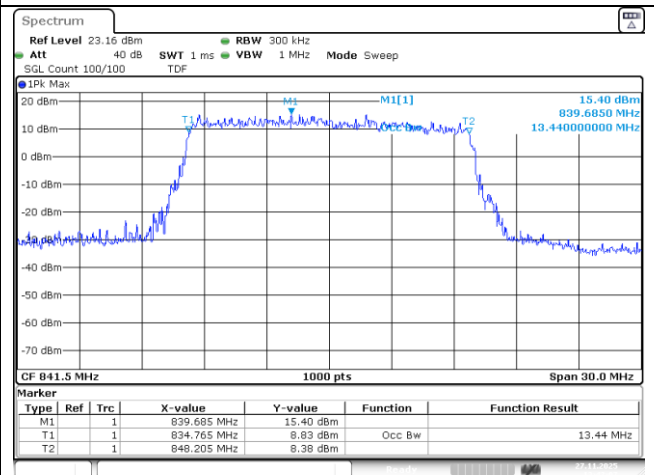
LTE band 26/5 Part 22



10 MHz QPSK Middle Channel - Full RB



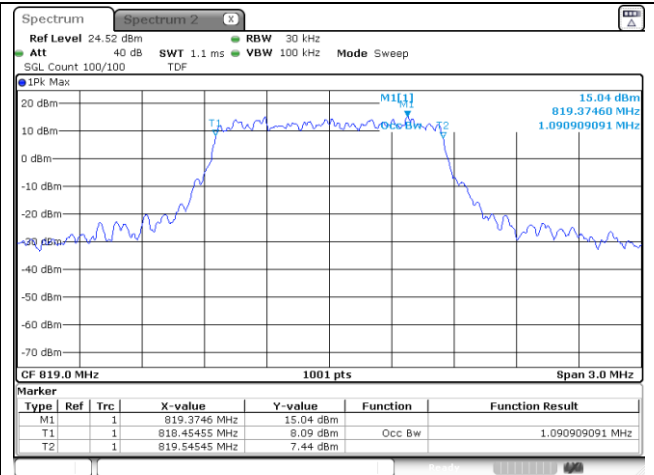
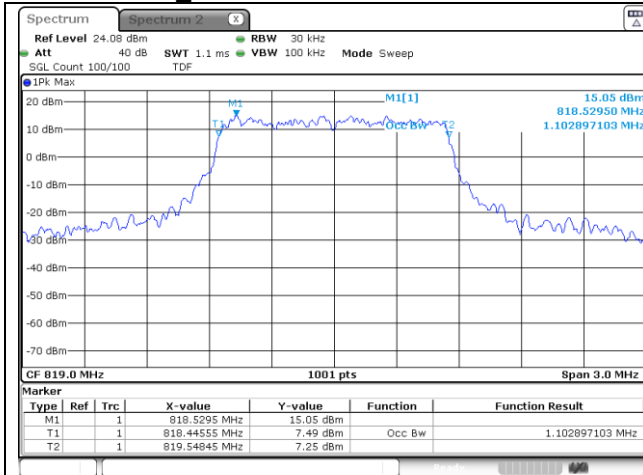
10 MHz 16QAM Middle Channel - Full RB



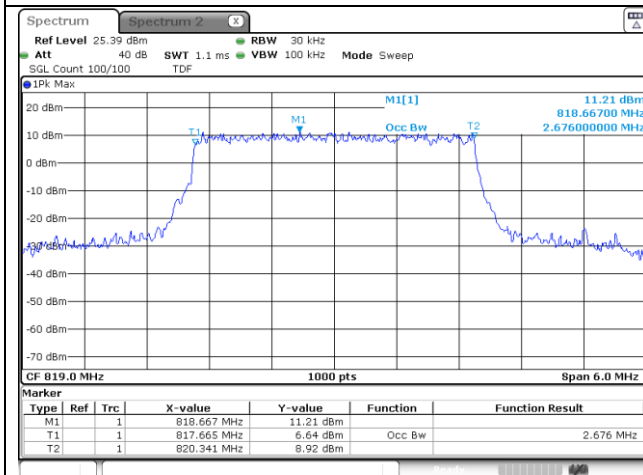
15 MHz QPSK High Channel - Full RB

15 MHz 16QAM High Channel - Full RB

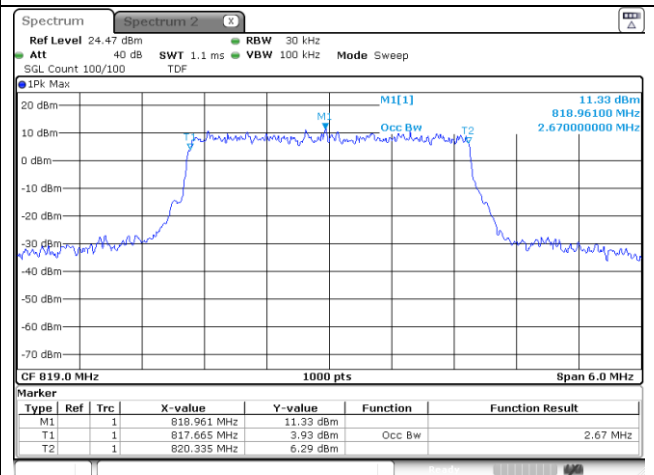
LTE band 26 Part 20



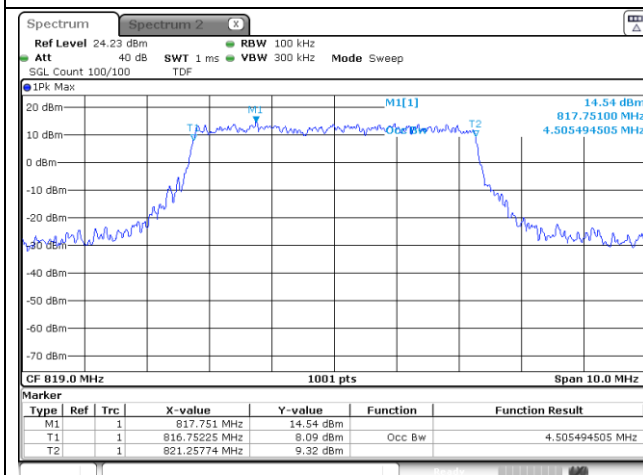
1.4 MHz QPSK Middle Channel - Full RB



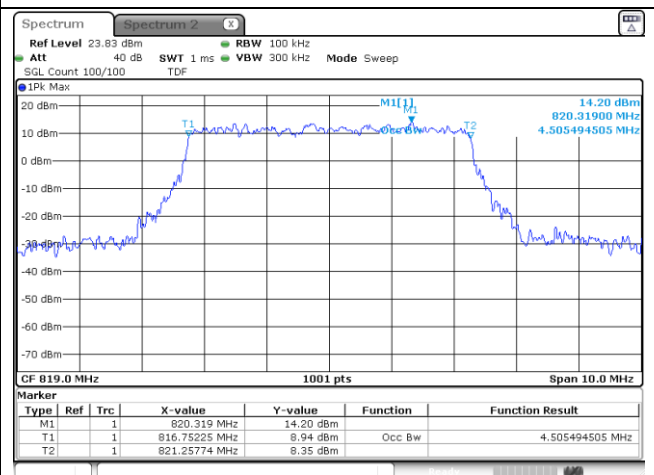
1.4 MHz 16QAM Middle Channel - Full RB



3 MHz QPSK Middle Channel - Full RB



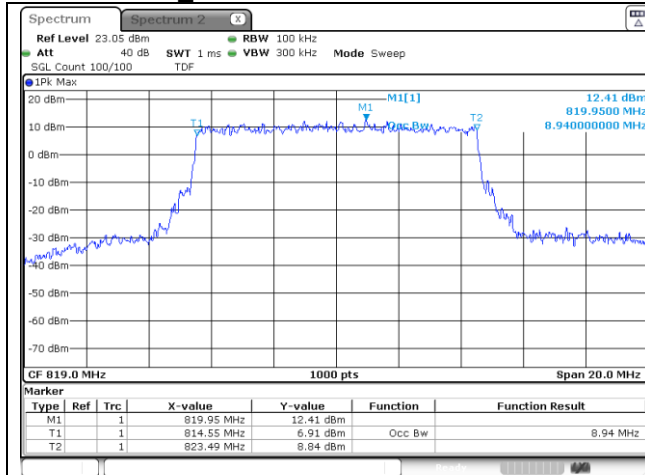
3 MHz 16QAM Middle Channel - Full RB



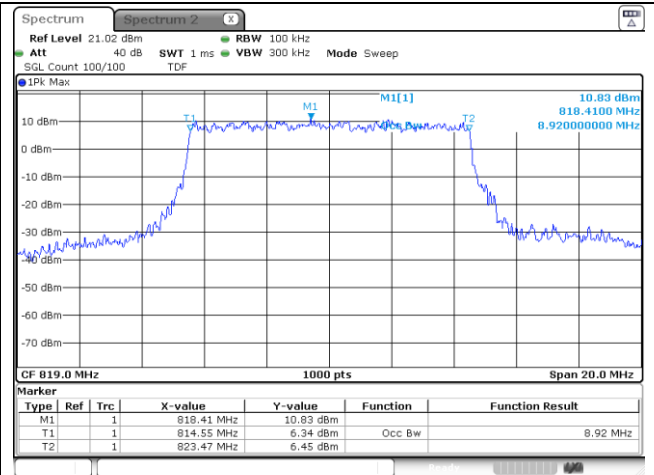
5 MHz QPSK Middle Channel - Full RB

5 MHz 16QAM Middle Channel - Full RB

LTE band 26_Part 90

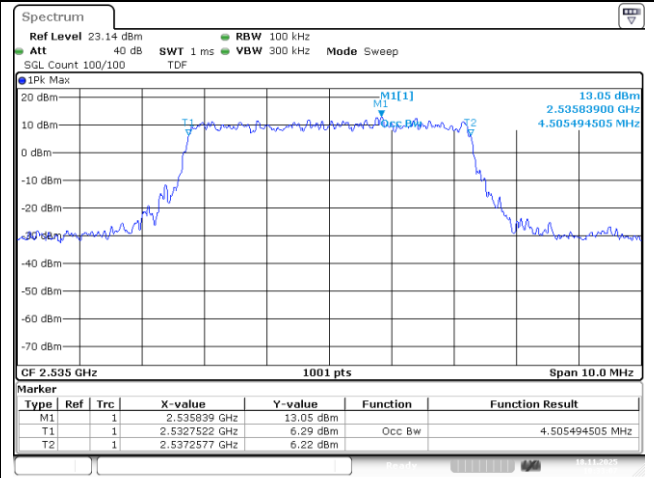
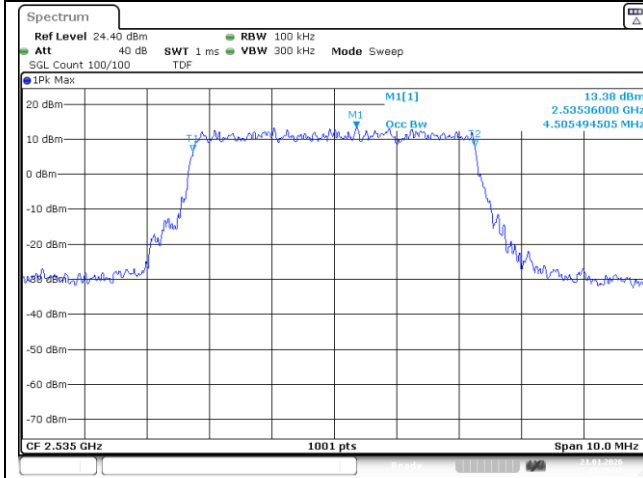


10 MHz QPSK Middle Channel - Full RB

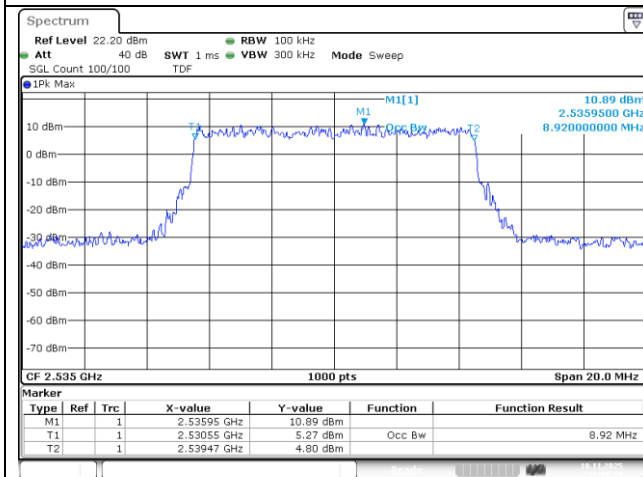


10 MHz 16QAM Middle Channel - Full RB

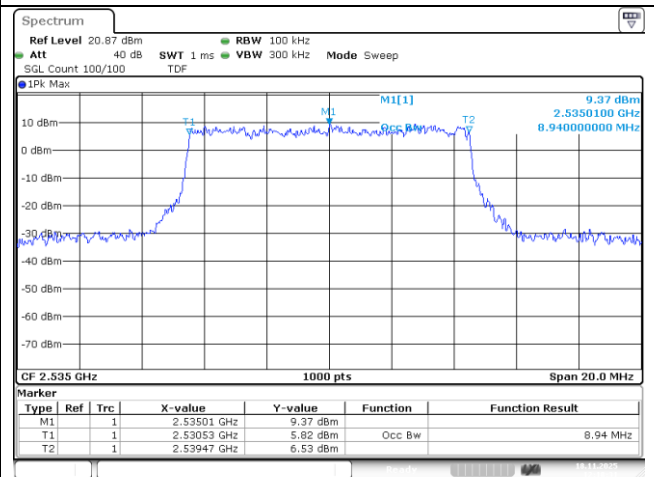
LTE band 7



5 MHz QPSK Middle Channel - Full RB



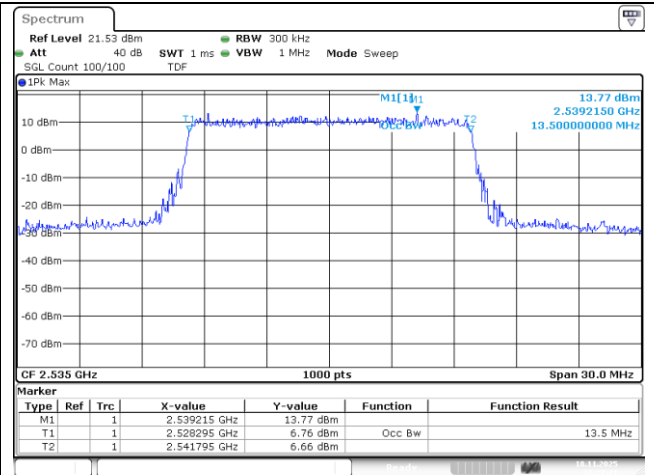
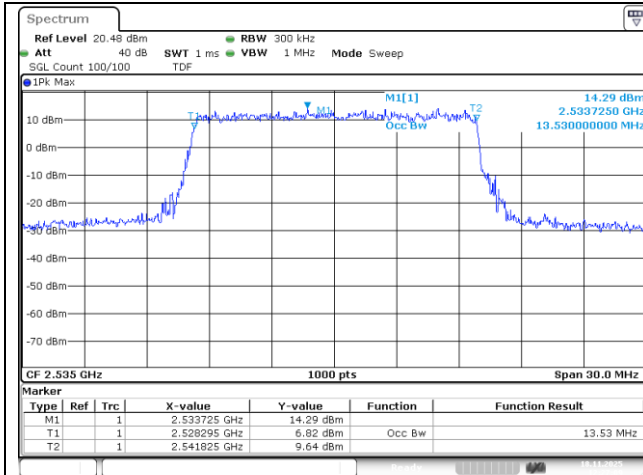
5 MHz 16QAM Middle Channel - Full RB



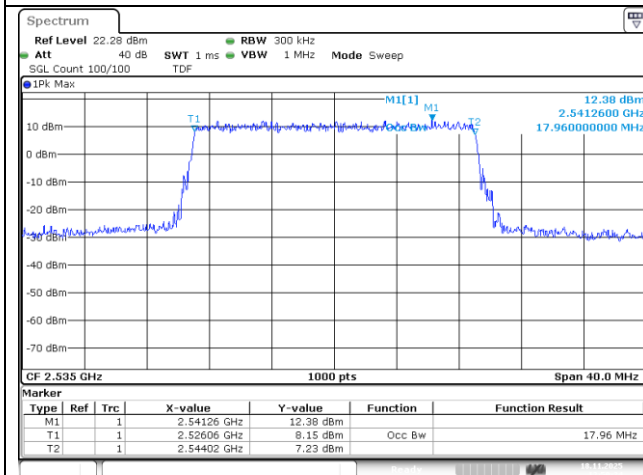
10 MHz QPSK Middle Channel - Full RB

10 MHz 16QAM Middle Channel - Full RB

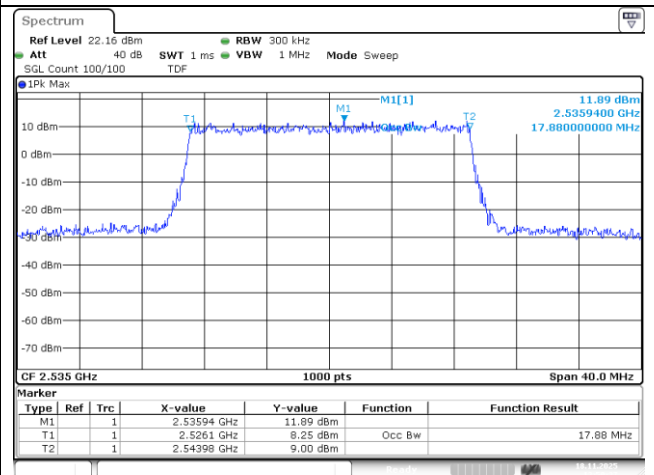
LTE band 7



15 MHz QPSK Middle Channel - Full RB



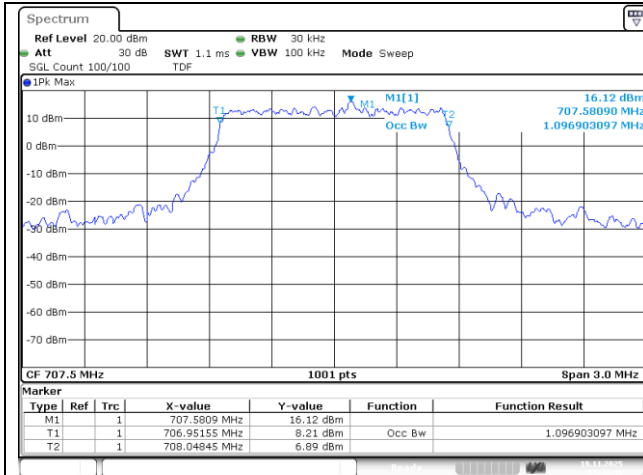
15 MHz 16QAM Middle Channel - Full RB



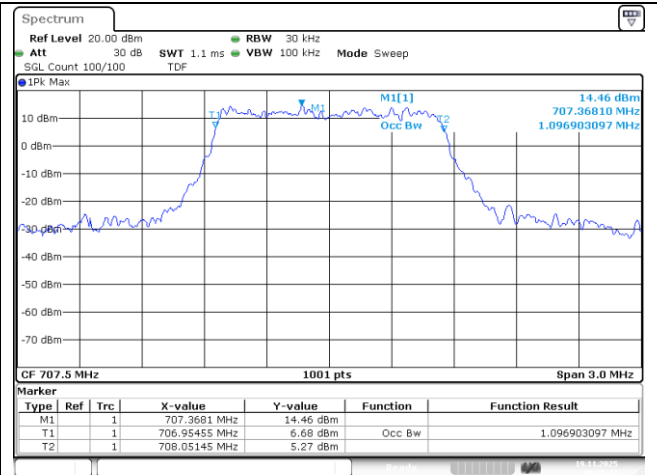
20 MHz QPSK Middle Channel - Full RB

20 MHz 16QAM Middle Channel - Full RB

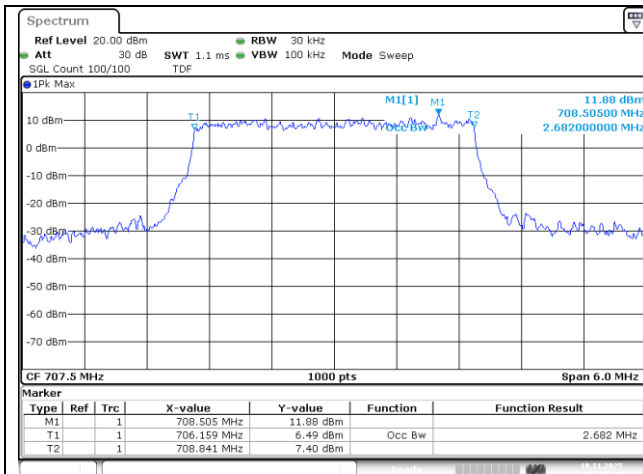
LTE band 12



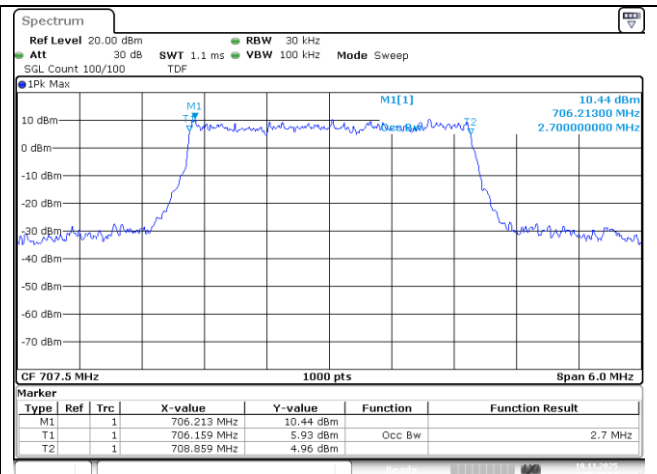
1.4 MHz QPSK Middle Channel - Full RB



1.4 MHz 16QAM Middle Channel - Full RB



3 MHz QPSK Middle Channel - Full RB



3 MHz 16QAM Middle Channel - Full RB