



Test Report No.: W7L-P23070010RF09



FCC RF TEST REPORT

Applicant:	Thundercomm Technology Co., Ltd.
Address:	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

Manufacturer or Supplier:	Thundercomm Technology Co., Ltd.
Address:	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Product:	Edge AI Station
Brand Name:	Thundercomm
Model Name:	EB5S
FCC ID:	2AOHHEB5S
Date of tests:	Sep. 09, 2023 ~ Oct. 31, 2023

The tests have been carried out according to the requirements of the following standard:

- FCC PART 22, Subpart H FCC PART 24, Subpart E FCC Part 27, Subpart C, M
- ANSI/TIA/EIA-603-D FCC Part 90, Subpart R, S
- FCC Part 2 ANSI/TIA/EIA-603-E ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Date: Oct. 31, 2023	Date: Oct. 31, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



Test Report No.: W7L-P23070010RF09

TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1 SUMMARY OF TEST RESULTS	4
1.1 MEASUREMENT UNCERTAINTY	6
1.2 TEST SITE AND INSTRUMENTS	7
2 GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 CONFIGURATION OF SYSTEM UNDER TEST	32
2.3 DESCRIPTION OF SUPPORT UNITS	33
2.4 TEST ITEM AND TEST CONFIGURATION	33
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	49
3 TEST TYPES AND RESULTS	50
3.1 OUTPUT POWER MEASUREMENT	50
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	50
3.1.2 TEST PROCEDURES	52
3.1.3 TEST SETUP	53
3.1.4 TEST RESULTS	54
3.2 RADIATED EMISSION MEASUREMENT	218
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	218
3.2.2 TEST PROCEDURES	219
3.2.3 DEVIATION FROM TEST STANDARD	219
3.2.4 TEST SETUP	219
3.2.5 TEST RESULTS	221
4 INFORMATION ON THE TESTING LABORATORIES	523
5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB. 524	



Test Report No.: W7L-P23070010RF09

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23070010RF09	Original release	Oct. 31, 2023

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 22/24/27/90 & PART 2		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
§2.1046 §90.635(b)	Conducted Output Power (n26)	Compliance
§24.232(c) §27.50(h)(2) §27.50(d)(4) §27.50(a)(3) §27.50(j)(3) §27.50(k)(3)	Equivalent Isotropically Radiated Power (5G NR n2, n7, n25, n30, n38, n41, n66, n77, n78)	Compliance
§22.913 (a) §27.50(b)(10) §27.50(c)(10) §90.542(a)(7)	Equivalent Radiated Power (5G NR n5, n12, n13, n14, n70, n71)	Compliance
§2.1055 §22.355 §24.235 §27.54 §90.213 §90.539	Frequency Stability	See Note1
§2.1049 §90.209	Occupied Bandwidth	See Note1
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(a)(4) §27.53(n)(2)	Band Edge Measurements	See Note1



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

§90.543(e)(f) §90.691(a)		
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(a)(4) §27.53(n)(2) §90.543(e)(f) §90.691(a)	Conducted Spurious Emissions	See Note1
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(a)(4) §27.53(n)(2) §90.691	Radiated Spurious Emissions	Compliance See Note2
§27.50(j)(4)	Peak-to-Average Ratio	See Note1

NOTE:

1. Refer to Module report SEWA2204000008RG02, FCC ID: XMR2022RM520NGL.
2. For NSA band, the EUT had been tested with all combinations, the report only shows the worst case RSE mode data.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-	SEP-03-20-	Apr.28,23	Oct.27,23



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

		1	069		
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.27,23	Apr.26,24
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

- NOTE:**
1. The calibration interval of the above test instruments is 6 months or 24months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Edge AI Station	
BRAND NAME	Thundercomm	
MODEL NAME	EB5S	
NOMINAL VOLTAGE	19Vdc(adapter)	
MODULATION TECHNOLOGY	5G NR	DFT-s-OFDM (Pi/2BPSK, QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
LTE ANCHOR BAND FOR NR BAND	NR Band n2	LTE Band 4/5/7/12/13/14/30/66/71
	NR Band n5	LTE Band 2/7/30/48/66
	NR Band n7	LTE Band 2/4/5/12/13/66/71
	NR Band n12	LTE Band 2/7/30/48/66
	NR Band n13	Only SA Mode
	NR Band n14	LTE Band 2/30/66
	NR Band n25	LTE Band 5/7/12/13/26/48/66/71
	NR Band n26	Only SA Mode
	NR Band n30	LTE Band 2/5/12/14/66
	NR Band n38	LTE Band 2/4/5/12/66/71
	NR Band n41	LTE Band 2/4/5/12/25/26/66/71
	NR Band n66	LTE Band 2/5/7/12/13/14/30/48/71
	NR Band n70	Only SA Mode
	NR Band n71	LTE Band 2/7/48/66
	NR Band n77(Part27Q)	LTE Band 2/5/7/12/13/14/25/30/41/66/71
NR Band n77(Part27O)	LTE Band 2/5/7/12/13/14/25/30/41/66/71	
NR Band n78(Part27Q)	LTE Band 2/4/5/7/12/13/25/26/38/41/66/71	
NR Band n78(Part27O)	LTE Band 2/4/5/7/12/13/25/26/38/41/66/71	
FREQUENCY RANGE	NR Band n2	1852.5MHz ~ 1907.5MHz
	NR Band n5	826.5MHz ~ 846.5MHz
	NR Band n7	2502.5MHz ~ 2567.5MHz



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

FREQUENCY RANGE	NR Band n12	701.5MHz ~ 713.5MHz
	NR Band n13	779.5MHz ~ 784.5MHz
	NR Band n14	790.5MHz ~ 795.5MHz
	NR Band n25	1852.5MHz ~ 1912.5MHz
	NR Band n26(Part90)	816.5MHz ~ 821.5MHz
	NR Band n26(Part22)	826.5MHz ~ 846.5MHz
	NR Band n30	2307.5MHz ~ 2312.5MHz
	NR Band n38	2575MHz ~ 2615MHz
	NR Band n41	2506.02MHz ~ 2679.99MHz
	NR Band n66	1712.5MHz ~ 1777.5MHz
	NR Band n70	1697.5MHz ~ 1707.5MHz
	NR Band n71	665.5MHz ~ 695.5MHz
	NR Band n77(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n77(Part27O)	3705MHz ~ 3975MHz
	NR Band n78(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n78(Part27O)	3705MHz ~ 3795MHz
EMISSION DESIGNATOR	NR Band n2 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M50W7D 256QAM: 4M50W7D Pi/2BPSK: 4M49G7D
	NR Band n2 Channel Bandwidth: 10MHz	QPSK: 9M32G7D 16QAM: 9M30W7D 64QAM: 9M32W7D 256QAM: 9M31W7D Pi/2BPSK: 8M97G7D
	NR Band n2 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M2W7D Pi/2BPSK: 13M4G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n2 Channel Bandwidth: 20MHz	QPSK: 18M9G7D 16QAM: 19M0W7D 64QAM: 18M9W7D 256QAM: 18M9W7D Pi/2BPSK: 17M9G7D
	NR Band n5 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M49W7D Pi/2BPSK: 4M49G7D
	NR Band n5 Channel Bandwidth: 10MHz	QPSK: 9M31G7D 16QAM: 9M29W7D 64QAM: 9M31W7D 256QAM: 9M30W7D Pi/2BPSK: 8M95G7D
	NR Band n5 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M2W7D Pi/2BPSK: 13M4G7D
	NR Band n5 Channel Bandwidth: 20MHz	QPSK: 18M9G7D 16QAM: 18M9W7D 64QAM: 18M9W7D 256QAM: 18M9W7D Pi/2BPSK: 17M9G7D
	NR Band n7 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M50W7D Pi/2BPSK: 4M49G7D
	NR Band n7 Channel Bandwidth: 10MHz	QPSK: 9M33G7D 16QAM: 9M30W7D 64QAM: 9M33W7D 256QAM: 9M31W7D Pi/2BPSK: 8M96G7D
	NR Band n7 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M2W7D Pi/2BPSK: 13M4G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n7 Channel Bandwidth: 20MHz	QPSK: 19M0G7D 16QAM: 19M0W7D 64QAM: 18M9W7D 256QAM: 18M9W7D Pi/2BPSK: 17M9G7D
	NR Band n7 Channel Bandwidth: 25MHz	QPSK: 23M8G7D 16QAM: 23M8W7D 64QAM: 23M8W7D 256QAM: 23M7W7D Pi/2BPSK: 22M9G7D
	NR Band n7 Channel Bandwidth: 30MHz	QPSK: 28M6G7D 16QAM: 28M6W7D 64QAM: 28M6W7D 256QAM: 28M6W7D Pi/2BPSK: 28M7G7D
	NR Band n7 Channel Bandwidth: 40MHz	QPSK: 38M6G7D 16QAM: 38M6W7D 64QAM: 38M6W7D 256QAM: 38M6W7D Pi/2BPSK: 38M6G7D
	NR Band n12 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M48W7D 64QAM: 4M48W7D 256QAM: 4M49W7D Pi/2BPSK: 4M49G7D
	NR Band n12 Channel Bandwidth: 10MHz	QPSK: 9M30G7D 16QAM: 9M29W7D 64QAM: 9M32W7D 256QAM: 9M31W7D Pi/2BPSK: 8M95G7D
	NR Band n12 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M1W7D Pi/2BPSK: 13M4G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n13 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M48W7D 64QAM: 4M47W7D 256QAM: 4M50W7D Pi/2BPSK: 4M48G7D
	NR Band n13 Channel Bandwidth: 10MHz	QPSK: 9M27G7D 16QAM: 9M26W7D 64QAM: 9M28W7D 256QAM: 9M27W7D Pi/2BPSK: 8M92G7D
	NR Band n14 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M50W7D 256QAM: 4M50W7D Pi/2BPSK: 4M49G7D
	NR Band n14 Channel Bandwidth: 10MHz	QPSK: 9M32G7D 16QAM: 9M29W7D 64QAM: 9M32W7D 256QAM: 9M32W7D Pi/2BPSK: 8M96G7D
	NR Band n25 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M49W7D Pi/2BPSK: 4M48G7D
	NR Band n25 Channel Bandwidth: 10MHz	QPSK: 9M32G7D 16QAM: 9M30W7D 64QAM: 9M32W7D 256QAM: 9M31W7D Pi/2BPSK: 8M94G7D
	NR Band n25 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M1W7D Pi/2BPSK: 13M5G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n25 Channel Bandwidth: 20MHz	QPSK: 18M9G7D 16QAM: 19M0W7D 64QAM: 18M9W7D 256QAM: 18M9W7D Pi/2BPSK: 17M9G7D
	NR Band n25 Channel Bandwidth: 25MHz	QPSK: 23M8G7D 16QAM: 23M8W7D 64QAM: 23M8W7D 256QAM: 23M8W7D Pi/2BPSK: 22M9G7D
	NR Band n25 Channel Bandwidth: 30MHz	QPSK: 28M6G7D 16QAM: 28M6W7D 64QAM: 28M6W7D 256QAM: 28M6W7D Pi/2BPSK: 28M7G7D
	NR Band n25 Channel Bandwidth: 40MHz	QPSK: 38M6G7D 16QAM: 38M6W7D 64QAM: 38M6W7D 256QAM: 38M6W7D Pi/2BPSK: 38M6G7D
	NR Band n26 Channel Bandwidth: 5MHz (Part90)	QPSK: 4M50G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M49W7D Pi/2BPSK: 4M47G7D
	NR Band n26 Channel Bandwidth: 10MHz (Part90)	QPSK: 9M25G7D 16QAM: 9M29W7D 64QAM: 9M29W7D 256QAM: 9M27W7D Pi/2BPSK: 8M95G7D
	NR Band n26 Channel Bandwidth: 5MHz (Part22)	QPSK: 4M48G7D 16QAM: 4M48W7D 64QAM: 4M48W7D 256QAM: 4M50W7D Pi/2BPSK: 4M47G7D
	NR Band n26 Channel Bandwidth: 10MHz (Part22)	QPSK: 9M31G7D 16QAM: 9M29W7D 64QAM: 9M31W7D 256QAM: 9M30W7D Pi/2BPSK: 8M94G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n26 Channel Bandwidth: 15MHz (Part22)	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M1W7D Pi/2BPSK: 13M4G7D
	NR Band n26 Channel Bandwidth: 20MHz (Part22)	QPSK: 18M9G7D 16QAM: 18M9W7D 64QAM: 18M9W7D 256QAM: 18M9W7D Pi/2BPSK: 18M9G7D
	NR Band n30 Channel Bandwidth: 5MHz	QPSK: 4M50G7D 16QAM: 4M49W7D 64QAM: 4M50W7D 256QAM: 4M48W7D Pi/2BPSK: 4M48G7D
	NR Band n30 Channel Bandwidth: 10MHz	QPSK: 9M33G7D 16QAM: 9M33W7D 64QAM: 9M32W7D 256QAM: 9M31W7D Pi/2BPSK: 8M95G7D
	NR Band n38 Channel Bandwidth: 10MHz	QPSK: 8M62G7D 16QAM: 8M62W7D 64QAM: 8M61W7D 256QAM: 8M60W7D Pi/2BPSK: 8M58G7D
	NR Band n38 Channel Bandwidth: 15MHz	QPSK: 13M6G7D 16QAM: 13M6W7D 64QAM: 13M7W7D 256QAM: 13M6W7D Pi/2BPSK: 12M9G7D
	NR Band n38 Channel Bandwidth: 20MHz	QPSK: 18M2G7D 16QAM: 18M2W7D 64QAM: 18M2W7D 256QAM: 18M3W7D Pi/2BPSK: 17M9G7D
	NR Band n38 Channel Bandwidth: 30MHz	QPSK: 27M9G7D 16QAM: 27M9W7D 64QAM: 27M9W7D 256QAM: 27M9W7D Pi/2BPSK: 26M9G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n38 Channel Bandwidth: 40MHz	QPSK: 38M0G7D 16QAM: 38M0W7D 64QAM: 37M9W7D 256QAM: 37M9W7D Pi/2BPSK: 35M8G7D
	NR Band n41 Channel Bandwidth: 20MHz	QPSK: 18M3G7D 16QAM: 18M3W7D 64QAM: 18M3W7D 256QAM: 18M3W7D Pi/2BPSK: 17M9G7D
	NR Band n41 Channel Bandwidth: 30MHz	QPSK: 28M0G7D 16QAM: 27M9W7D 64QAM: 27M9W7D 256QAM: 27M9W7D Pi/2BPSK: 26M9G7D
	NR Band n41 Channel Bandwidth: 40MHz	QPSK: 38M0G7D 16QAM: 38M0W7D 64QAM: 38M0W7D 256QAM: 37M9W7D Pi/2BPSK: 35M8G7D
	NR Band n41 Channel Bandwidth 50MHz	QPSK: 47M5G7D 16QAM: 47M6W7D 64QAM: 47M6W7D 256QAM: 47M5W7D Pi/2BPSK: 45M8G7D
	NR Band n41 Channel Bandwidth 60MHz	QPSK: 57M9G7D 16QAM: 58M0W7D 64QAM: 58M1W7D 256QAM: 58M1W7D Pi/2BPSK: 57M9G7D
	NR Band n41 Channel Bandwidth 70MHz	QPSK: 67M7G7D 16QAM: 67M6W7D 64QAM: 67M5W7D 256QAM: 67M6W7D Pi/2BPSK: 64M3G7D
	NR Band n41 Channel Bandwidth 80MHz	QPSK: 77M8G7D 16QAM: 77M8W7D 64QAM: 77M5W7D 256QAM: 77M6W7D Pi/2BPSK: 77M3G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n41 Channel Bandwidth 90MHz	QPSK: 87M6G7D 16QAM: 87M5W7D 64QAM: 87M6W7D 256QAM: 87M4W7D Pi/2BPSK: 85M8G7D
	NR Band n41 Channel Bandwidth 100MHz	QPSK: 97M6G7D 16QAM: 97M7W7D 64QAM: 97M7W7D 256QAM: 97M5W7D Pi/2BPSK: 96M2G7D
	NR Band n66 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M48W7D 256QAM: 4M50W7D Pi/2BPSK: 4M48G7D
	NR Band n66 Channel Bandwidth: 10MHz	QPSK: 9M32G7D 16QAM: 9M30W7D 64QAM: 9M33W7D 256QAM: 9M31W7D Pi/2BPSK: 8M96G7D
	NR Band n66 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M2W7D Pi/2BPSK: 13M5G7D
	NR Band n66 Channel Bandwidth: 20MHz	QPSK: 18M9G7D 16QAM: 18M9W7D 64QAM: 18M9W7D 256QAM: 18M9W7D Pi/2BPSK: 17M9G7D
	NR Band n66 Channel Bandwidth: 30MHz	QPSK: 28M6G7D 16QAM: 28M6W7D 64QAM: 28M6W7D 256QAM: 28M6W7D Pi/2BPSK: 28M6G7D
	NR Band n66 Channel Bandwidth: 40MHz	QPSK: 38M7G7D 16QAM: 38M6W7D 64QAM: 38M6W7D 256QAM: 38M6W7D Pi/2BPSK: 38M6G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band n70 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M49W7D Pi/2BPSK: 4M48G7D
	NR Band n70 Channel Bandwidth: 10MHz	QPSK: 9M33G7D 16QAM: 9M31W7D 64QAM: 9M33W7D 256QAM: 9M32W7D Pi/2BPSK: 8M95G7D
	NR Band n70 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M1W7D Pi/2BPSK: 13M4G7D
	NR Band n71 Channel Bandwidth: 5MHz	QPSK: 4M50G7D 16QAM: 4M48W7D 64QAM: 4M49W7D 256QAM: 4M50W7D Pi/2BPSK: 4M50G7D
	NR Band n71 Channel Bandwidth: 10MHz	QPSK: 9M31G7D 16QAM: 9M30W7D 64QAM: 9M32W7D 256QAM: 9M30W7D Pi/2BPSK: 8M95G7D
	NR Band n71 Channel Bandwidth: 15MHz	QPSK: 14M1G7D 16QAM: 14M1W7D 64QAM: 14M2W7D 256QAM: 14M2W7D Pi/2BPSK: 13M5G7D
	NR Band n71 Channel Bandwidth: 20MHz	QPSK: 18M9G7D 16QAM: 18M9W7D 64QAM: 18M9W7D 256QAM: 18M9W7D Pi/2BPSK: 17M9G7D
	NR Band 77(Part270) Channel Bandwidth: 10MHz	QPSK: 8M63G7D 16QAM: 8M61W7D 64QAM: 8M61W7D 256QAM: 8M59W7D Pi/2BPSK: 8M58G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band 77(Part27O) Channel Bandwidth: 15MHz	QPSK: 13M6G7D 16QAM: 13M6W7D 64QAM: 13M7W7D 256QAM: 13M6W7D Pi/2BPSK: 12M9G7D
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	QPSK: 18M2G7D 16QAM: 18M2W7D 64QAM: 18M2W7D 256QAM: 18M2W7D Pi/2BPSK: 17M9G7D
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	QPSK: 27M9G7D 16QAM: 27M9W7D 64QAM: 27M8W7D 256QAM: 27M9W7D Pi/2BPSK: 26M8G7D
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	QPSK: 37M9G7D 16QAM: 37M9W7D 64QAM: 37M9W7D 256QAM: 37M9W7D Pi/2BPSK: 35M8G7D
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	QPSK: 47M5G7D 16QAM: 47M5W7D 64QAM: 47M5W7D 256QAM: 47M5W7D Pi/2BPSK: 45M7G7D
	NR Band 77(Part27O) Channel Bandwidth: 60MHz	QPSK: 57M9G7D 16QAM: 58M0W7D 64QAM: 58M0W7D 256QAM: 58M0W7D Pi/2BPSK: 58M0G7D
	NR Band 77(Part27O) Channel Bandwidth: 70MHz	QPSK: 67M4G7D 16QAM: 67M4W7D 64QAM: 67M5W7D 256QAM: 67M5W7D Pi/2BPSK: 64M2G7D
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	QPSK: 77M5G7D 16QAM: 77M6W7D 64QAM: 77M5W7D 256QAM: 77M5W7D Pi/2BPSK: 77M3G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band 77(Part27O) Channel Bandwidth: 90MHz	QPSK: 87M6G7D 16QAM: 87M6W7D 64QAM: 87M5W7D 256QAM: 87M4W7D Pi/2BPSK: 85M7G7D
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	QPSK: 97M7G7D 16QAM: 97M5W7D 64QAM: 97M5W7D 256QAM: 97M6W7D Pi/2BPSK: 96M4G7D
	NR Band 78(Part27Q) Channel Bandwidth: 10MHz	QPSK: 8M61G7D 16QAM: 8M59W7D 64QAM: 8M63W7D 256QAM: 8M62W7D Pi/2BPSK: 8M58G7D
	NR Band 78(Part27Q) Channel Bandwidth: 15MHz	QPSK: 13M6G7D 16QAM: 13M6W7D 64QAM: 13M6W7D 256QAM: 13M6W7D Pi/2BPSK: 12M9G7D
	NR Band 78(Part27Q) Channel Bandwidth: 20MHz	QPSK: 18M2G7D 16QAM: 18M2W7D 64QAM: 18M2W7D 256QAM: 18M3W7D Pi/2BPSK: 17M9G7D
	NR Band 78(Part27Q) Channel Bandwidth: 30MHz	QPSK: 27M9G7D 16QAM: 27M9W7D 64QAM: 27M8W7D 256QAM: 27M9W7D Pi/2BPSK: 26M8G7D
	NR Band 78(Part27Q) Channel Bandwidth: 40MHz	QPSK: 38M0G7D 16QAM: 37M9W7D 64QAM: 37M9W7D 256QAM: 37M9W7D Pi/2BPSK: 35M8G7D
	NR Band 78(Part27Q) Channel Bandwidth: 50MHz	QPSK: 47M6G7D 16QAM: 47M4W7D 64QAM: 47M4W7D 256QAM: 47M4W7D Pi/2BPSK: 45M8G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band 78(Part27Q) Channel Bandwidth: 60MHz	QPSK: 57M9G7D 16QAM: 57M9W7D 64QAM: 57M9W7D 256QAM: 58M0W7D Pi/2BPSK: 57M9G7D
	NR Band 78(Part27Q) Channel Bandwidth: 70MHz	QPSK: 67M4G7D 16QAM: 67M4W7D 64QAM: 67M4W7D 256QAM: 67M5W7D Pi/2BPSK: 64M3G7D
	NR Band 78(Part27Q) Channel Bandwidth: 80MHz	QPSK: 77M8G7D 16QAM: 77M7W7D 64QAM: 77M5W7D 256QAM: 77M6W7D Pi/2BPSK: 77M3G7D
	NR Band 78(Part27Q) Channel Bandwidth: 90MHz	QPSK: 87M6G7D 16QAM: 87M6W7D 64QAM: 87M5W7D 256QAM: 87M6W7D Pi/2BPSK: 85M7G7D
	NR Band 78(Part27Q) Channel Bandwidth: 100MHz	QPSK: 97M4G7D 16QAM: 97M6W7D 64QAM: 97M6W7D 256QAM: 97M4W7D Pi/2BPSK: 96M4G7D
	NR Band 78(Part27O) Channel Bandwidth: 10MHz	QPSK: 8M63G7D 16QAM: 8M59W7D 64QAM: 8M61W7D 256QAM: 8M58W7D Pi/2BPSK: 8M57G7D
	NR Band 78(Part27O) Channel Bandwidth: 15MHz	QPSK: 13M6G7D 16QAM: 13M6W7D 64QAM: 13M6W7D 256QAM: 13M6W7D Pi/2BPSK: 12M9G7D
	NR Band 78(Part27O) Channel Bandwidth: 20MHz	QPSK: 18M2G7D 16QAM: 18M2W7D 64QAM: 18M2W7D 256QAM: 18M2W7D Pi/2BPSK: 17M9G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

EMISSION DESIGNATOR	NR Band 78(Part27O) Channel Bandwidth: 30MHz	QPSK: 27M9G7D 16QAM: 27M9W7D 64QAM: 27M9W7D 256QAM: 27M8W7D Pi/2BPSK: 26M8G7D
	NR Band 78(Part27O) Channel Bandwidth: 40MHz	QPSK: 38M0G7D 16QAM: 37M9W7D 64QAM: 37M9W7D 256QAM: 37M9W7D Pi/2BPSK: 35M8G7D
	NR Band 78(Part27O) Channel Bandwidth: 50MHz	QPSK: 47M4G7D 16QAM: 47M5W7D 64QAM: 47M6W7D 256QAM: 47M4W7D Pi/2BPSK: 45M7G7D
	NR Band 78(Part27O) Channel Bandwidth: 60MHz	QPSK: 57M8G7D 16QAM: 57M9W7D 64QAM: 58M0W7D 256QAM: 58M0W7D Pi/2BPSK: 57M9G7D
	NR Band 78(Part27O) Channel Bandwidth: 70MHz	QPSK: 67M7G7D 16QAM: 67M6W7D 64QAM: 67M5W7D 256QAM: 57M5W7D Pi/2BPSK: 64M4G7D
	NR Band 78(Part27O) Channel Bandwidth: 80MHz	QPSK: 77M8G7D 16QAM: 77M7W7D 64QAM: 77M5W7D 256QAM: 77M5W7D Pi/2BPSK: 77M3G7D
	NR Band 78(Part27O) Channel Bandwidth: 90MHz	QPSK: 87M5G7D 16QAM: 87M6W7D 64QAM: 87M5W7D 256QAM: 87M4W7D Pi/2BPSK: 85M6G7D
	NR Band 78(Part27O) Channel Bandwidth: 100MHz	QPSK: 97M5G7D 16QAM: 97M6W7D 64QAM: 97M6W7D 256QAM: 97M4W7D Pi/2BPSK: 96M4G7D



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

5G SA MAX. EIRP POWER	NR Band n2 Channel Bandwidth: 5MHz	204.64mW
	NR Band n2 Channel Bandwidth: 10MHz	208.93mW
	NR Band n2 Channel Bandwidth: 15MHz	212.32mW
	NR Band n2 Channel Bandwidth: 20MHz	210.86mW
	NR Band n5 Channel Bandwidth: 5MHz	116.68mW
	NR Band n5 Channel Bandwidth: 10MHz	113.76mW
	NR Band n5 Channel Bandwidth: 15MHz	119.4mW
	NR Band n5 Channel Bandwidth: 20MHz	115.08mW
	NR Band n7 Channel Bandwidth: 5MHz	215.28mW
	NR Band n7 Channel Bandwidth: 10MHz	218.27mW
	NR Band n7 Channel Bandwidth: 15MHz	258.82mW
	NR Band n7 Channel Bandwidth: 20MHz	219.79mW
	NR Band n7 Channel Bandwidth: 25MHz	214.29mW



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

5G SA MAX. EIRP POWER	NR Band n7 Channel Bandwidth: 30MHz	226.99mW
	NR Band n7 Channel Bandwidth: 40MHz	221.82mW
	NR Band n12 Channel Bandwidth: 5MHz	37.58mW
	NR Band n12 Channel Bandwidth: 10MHz	39.81mW
	NR Band n12 Channel Bandwidth: 15MHz	40.64mW
	NR Band n13 Channel Bandwidth: 5MHz	45.81mW
	NR Band n13 Channel Bandwidth: 10MHz	45.71mW
	NR Band n14 Channel Bandwidth: 5MHz	51.52mW
	NR Band n14 Channel Bandwidth: 10MHz	52.12mW
	NR Band n25 Channel Bandwidth: 5MHz	215.28mW
	NR Band n25 Channel Bandwidth: 10MHz	209.89mW
	NR Band n25 Channel Bandwidth: 15MHz	221.82mW
	NR Band n25 Channel Bandwidth: 20MHz	217.77mW



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

5G SA MAX. EIRP POWER	NR Band n25 Channel Bandwidth: 25MHz	232.81mW
	NR Band n25 Channel Bandwidth: 30MHz	225.42mW
	NR Band n25 Channel Bandwidth: 40MHz	222.33mW
	NR Band n26 Channel Bandwidth: 5MHz (Part90)	108.14mW
	NR Band n26 Channel Bandwidth: 10MHz (Part90)	109.14mW
	NR Band n26 Channel Bandwidth: 5MHz (Part22)	114.02mW
	NR Band n26 Channel Bandwidth: 10MHz (Part22)	114.55mW
	NR Band n26 Channel Bandwidth: 15MHz (Part22)	116.95mW
	NR Band n26 Channel Bandwidth: 20MHz (Part22)	116.14mW
	NR Band n30 Channel Bandwidth: 5MHz	147.23mW
	NR Band n30 Channel Bandwidth: 10MHz	135.52mW
	NR Band n38 Channel Bandwidth: 10MHz	638.31mW
	NR Band n38 Channel Bandwidth: 15MHz	677.69mW

5G SA MAX. EIRP POWER	NR Band n38 Channel Bandwidth: 20MHz	676.13mW
	NR Band n38 Channel Bandwidth: 30MHz	727.83mW
	NR Band n38 Channel Bandwidth: 40MHz	714.55mW
	NR Band n41 Channel Bandwidth: 20MHz	704.74mW
	NR Band n41 Channel Bandwidth: 30MHz	734.56mW
	NR Band n41 Channel Bandwidth: 40MHz	749.95mW
	NR Band n41 Channel Bandwidth: 50MHz	732.88mW
	NR Band n41 Channel Bandwidth: 60MHz	731.19mW
	NR Band n41 Channel Bandwidth: 70MHz	724.49mW
	NR Band n41 Channel Bandwidth: 80MHz	739.65mW
	NR Band n41 Channel Bandwidth: 90MHz	714.55mW
	NR Band n41 Channel Bandwidth: 100MHz	696.67mW
	NR Band n66 Channel Bandwidth: 5MHz	187.93mW

5G SA MAX. EIRP POWER	NR Band n66 Channel Bandwidth: 10MHz	189.67mW
	NR Band n66 Channel Bandwidth: 15MHz	199.07mW
	NR Band n66 Channel Bandwidth: 20MHz	196.79mW
	NR Band n66 Channel Bandwidth: 30MHz	196.79mW
	NR Band n66 Channel Bandwidth: 40MHz	191.87mW
	NR Band n70 Channel Bandwidth: 5MHz	100.46mW
	NR Band n70 Channel Bandwidth: 10MHz	99.54mW
	NR Band n70 Channel Bandwidth: 15MHz	103.51mW
	NR Band n71 Channel Bandwidth: 5MHz	37.07mW
	NR Band n71 Channel Bandwidth: 10MHz	37.93mW
	NR Band n71 Channel Bandwidth: 15MHz	38.9mW
	NR Band n71 Channel Bandwidth: 20MHz	38.19mW
	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	283.79mW



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

5G SA MAX. EIRP POWER	NR Band 77(Part27Q) Channel Bandwidth: 15MHz	300.61mW
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	281.19mW
	NR Band 77(Part27Q) Channel Bandwidth: 30MHz	294.44mW
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	300.61mW
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	298.54mW
	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	297.17mW
	NR Band 77(Part27Q) Channel Bandwidth: 70MHz	294.44mW
	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	290.4mW
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	288.4mW
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	283.14mW
	NR Band 77(Part27O) Channel Bandwidth: 10MHz	238.23mW
	NR Band 77(Part27O) Channel Bandwidth: 15MHz	255.86mW
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	257.04mW
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	263.03mW
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	266.69mW
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	247.74mW
NR Band 77(Part27O) Channel Bandwidth: 60MHz	248.31mW	

5G SA MAX. EIRP POWER	NR Band 77(Part27O) Channel Bandwidth: 70MHz	238.78mW
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	243.78mW
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	229.61mW
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	237.68mW
	NR Band 78(Part27Q) Channel Bandwidth: 10MHz	277.97mW
	NR Band 78(Part27Q) Channel Bandwidth: 15MHz	289.73mW
	NR Band 78(Part27Q) Channel Bandwidth: 20MHz	283.14mW
	NR Band 78(Part27Q) Channel Bandwidth: 30MHz	289.07mW
	NR Band 78(Part27Q) Channel Bandwidth: 40MHz	294.44mW
	NR Band 78(Part27Q) Channel Bandwidth: 50MHz	283.14mW
	NR Band 78(Part27Q) Channel Bandwidth: 60MHz	285.76mW
	NR Band 78(Part27Q) Channel Bandwidth: 70MHz	283.79mW
	NR Band 78(Part27Q) Channel Bandwidth: 80MHz	277.97mW
	NR Band 78(Part27Q) Channel Bandwidth: 90MHz	277.97mW
	NR Band 78(Part27Q) Channel Bandwidth: 100MHz	263.63mW
	NR Band 78(Part27O) Channel Bandwidth: 10MHz	250.03mW



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

5G SA MAX. EIRP POWER	NR Band 78(Part27O) Channel Bandwidth: 15MHz	255.27mW
	NR Band 78(Part27O) Channel Bandwidth: 20MHz	255.86mW
	NR Band 78(Part27O) Channel Bandwidth: 30MHz	264.24mW
	NR Band 78(Part27O) Channel Bandwidth: 40MHz	257.04mW
	NR Band 78(Part27O) Channel Bandwidth: 50MHz	238.23mW
	NR Band 78(Part27O) Channel Bandwidth: 60MHz	234.96mW
	NR Band 78(Part27O) Channel Bandwidth: 70MHz	237.14mW
	NR Band 78(Part27O) Channel Bandwidth: 80MHz	233.35mW
	NR Band 78(Part27O) Channel Bandwidth: 90MHz	238.78mW
	NR Band 78(Part27O) Channel Bandwidth: 100MHz	240.44mW
ANTENNA TYPE	5G SA/NSA Fixed External Antenna with -0.48 dBi gain for NR Band n2 Fixed External Antenna with -1.35 dBi gain for NR Band n5 Fixed External Antenna with -0.56 dBi gain for NR Band n7 Fixed External Antenna with -5.75 dBi gain for NR Band n12 Fixed External Antenna with -4.92 dBi gain for NR Band n13 Fixed External Antenna with -4.46 dBi gain for NR Band n14 Fixed External Antenna with -0.48 dBi gain for NR Band n25 Fixed External Antenna with -1.35 dBi gain for NR Band n26 Fixed External Antenna with -1.95 dBi gain for NR Band n30 Fixed External Antenna with 0.04 dBi gain for NR Band n38 Fixed External Antenna with 0.28 dBi gain for NR Band n41 Fixed External Antenna with -1.45 dBi gain for NR Band n66 Fixed External Antenna with -1.45 dBi gain for NR Band n70 Fixed External Antenna with -5.87 dBi gain for NR Band n71 Fixed External Antenna with -1.24 dBi gain for NR Band n77 Fixed External Antenna with -1.24 dBi gain for NR Band n78	
HW VERSION	Turbox EB5S-IO-BOARD V03	
SW VERSION	R.5S.LA.2.20231030	



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A
EXTREME TEMPERATURE	-20-60 °C
EXTREME VOLTAGE	12V - 24V

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates the transmitting function as below:

MODULATION MODE	TX FUNCTION	Band
5G NR	1TX/1RX	2/5/7/12/13/14/25/26/30/66/70/71
	2TX/2RX	38/41/77/78

- For UL_MIMO Mode, according to the KDB 662911 D01, Basic methodology with N_{ANT} transmit antennas, each with the same directional gain G_{ANT} dBi, being driven by N_{ANT} transmitter outputs of equal power. Directional gain is to be computed as follows:
Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi (For any transmit signals that are *correlated* with each other).

So the Gain of N38/41/77/78 can be calculated as below:

NR Band	G_{ANT} (All antennas with the same Gain)	Directional gain
38	0.04dBi	3.05dBi
41	0.28dBi	3.29dBi
77	-1.24dBi	1.77dBi
78	-1.24dBi	1.77dBi

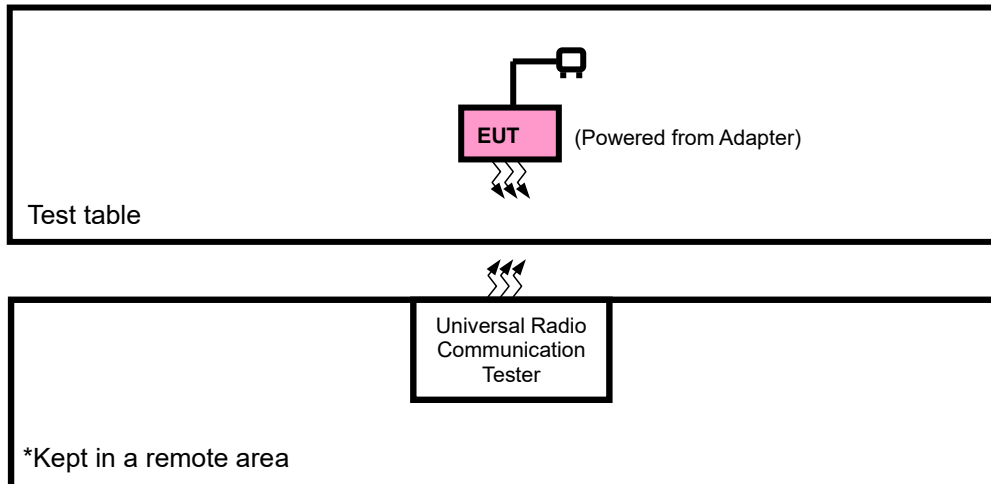
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Max ERP/EIRP is according to Max conducted power calculate for SA.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter	Huntkey	Shenzhen Huntkey Electric Co. Ltd.	HKA09019047-6U	I/P: 100-240Vac, 1.5A, O/P: 19Vdc, 3.15A

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST





2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with 5G NR link

**5G NR n2 MODE (SA_n2/ DC_4A_n2/ DC_5A_n2/ DC_7A_n2/ DC_12A_n2/ DC_13A_n2/
DC_14A_n2/ DC_30A_n2/ DC_66A_n2/ DC_71A_n2)**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	370500 to 381500	370500 to 381500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		371000 to 381000	371000 to 381000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		371500 to 380500	371500 to 380500	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		372000 to 380000	372000 to 380000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The EIRP calculate presented in the report from worst SA n2.

3. SA n2 are covered by SA n25, because it is a subset of SA n25 with the same output power and supported bandwidths, So the RSE test data please refer to SA n25.

5G NR n5 MODE (SA_n5/ DC_2A_n5/ DC_7A_n5/ DC_30A_n5/ DC_48A_n5/ DC_66A_n5)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The EIRP calculate presented in the report from worst SA n5.

3. SA n5 are covered by SA n26, because it is a subset of SA n26 with the same output power and supported bandwidths, So the RSE test data please refer to SA n26.

**5G NR n7 MODE (SA_n7/ DC_2A_n7/ DC_4A_n7/ DC_5A_n7/ DC_12A_n7/ DC_13A_n7/
DC_66A_n7/ DC_71A_n7)**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	500500 to 513500	500500 to 513500	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		50100 to 513000	50100 to 513000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		502500 to 511500	502500 to 511500	Low, Middle, High	25MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		503000 to 511000	503000 to 511000	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		504000 to 510000	504000 to 510000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	500500 to 513500	500500 to 513500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		50100 to 513000	50100 to 513000	Middle	10MHz	QPSK	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		502500 to 511500	502500 to 511500	Middle	25MHz	QPSK	1RB/ 0RB Offset
		503000 to 511000	503000 to 511000	Middle	30MHz	QPSK	1RB/ 0RB Offset
		504000 to 510000	504000 to 510000	Middle	40MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n7.

5G NR n12 MODE (SA_n12/ DC_2A_n12/ DC_7A_n12/ DC_30A_n12/ DC_48A_n12/ DC_66A_n12)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	140300 to 142700	140300 to 142700	Middle	5MHz	QPSK	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Middle	15MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n12.

5G NR n13 MODE (SA_n13)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	155900 to 156900	155900 to 156900	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		156400	156400	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	155900 to 156900	155900 to 156900	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		156400	156400	Middle	10MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n13.

5G NR n14 MODE (SA_n14/ DC_2A_n14/ DC_30A_n14/ DC_66A_n14)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	158100 to 159100	158100 to 159100	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		158600	158600	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	158100 to 159100	158100 to 159100	Middle	5MHz	QPSK	1RB/ 0RB Offset
		158600	158600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n14.



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

5G NR n25 MODE (SA_n25/ DC_5A_n25/ DC_7A_n25/ DC_12A_n25/ DC_13A_n25/ DC_26A_n25/
DC_48A_n25/ DC_66A_n25/ DC_71A_n25)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		372500 to 380500	372500 to 380500	Low, Middle, High	25MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		373000 to 380000	373000 to 380000	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	370500 to 382500	370500 to 382500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Middle	20MHz	QPSK	1RB/ 0RB Offset
		372500 to 380500	372500 to 380500	Middle	25MHz	QPSK	1RB/ 0RB Offset
		373000 to 380000	373000 to 380000	Middle	30MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Middle	40MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n25.

5G NR n26 MODE (SA_n26) (Part90)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	163300 to 164300	163300 to 164300	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		163800	163800	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	163300 to 164300	163300 to 164300	Middle	5MHz	QPSK	1RB/ 0RB Offset
		163800	163800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n26.

5G NR n26 MODE (SA_n26)(Part22)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	165300 to 169300	165300 to 169300	Middle	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Middle	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Middle	20MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n26.

5G NR n30 MODE (SA_n30/ DC_2A_n30/ DC_5A_n30/ DC_12A_n30/ DC_14A_n30/ DC_66A_n30)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	461500 to 462500	461500 to 462500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM,64QAM,256QAM	1RB/ 0RB Offset
		462000	462000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM,64QAM,256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	461500 to 462500	461500 to 462500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n30.

5G NR n38 MODE (SA_n38/ DC_2A_n38/ DC_4A_n38/ DC_5A_n38/ DC_12A_n38/ DC_66A_n38/ DC_71A_n38)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	515000 to 523000	515000 to 523000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM,64QAM,256QAM	1RB/ 0RB Offset
		515500 to 522500	515500 to 522500	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM,64QAM,256QAM	1RB/ 0RB Offset
		516000 to 522000	516000 to 522000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM,64QAM,256QAM	1RB/ 0RB Offset
		517000 to 521000	517000 to 521000	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM,64QAM,256QAM	1RB/ 0RB Offset
		518000 to 520000	518000 to 520000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM,64QAM,256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	515000 to 523000	515000 to 523000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		515500 to 522500	515500 to 522500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		516000 to 522000	516000 to 522000	Middle	20MHz	QPSK	1RB/ 0RB Offset
		517000 to 521000	517000 to 521000	Middle	30MHz	QPSK	1RB/ 0RB Offset
		518000 to 520000	518000 to 520000	Middle	40MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n38.

**5G NR n41 MODE (SA_n41/ DC_2A_n41/ DC_4A_n41/ DC_5A_n41/ DC_12A_n41/ DC_25A_n41/
DC_26A_n41/ DC_66A_n41/ DC_71A_n41)**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		504204 to 532998	504204 to 532998	Low, Middle, High	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		506202 to 531000	506202 to 531000	Low, Middle, High	70MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Middle	30MHz	QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Middle	40MHz	QPSK	1RB/ 0RB Offset
		504204 to 532998	504204 to 532998	Middle	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Middle	60MHz	QPSK	1RB/ 0RB Offset
		506202 to 531000	506202 to 531000	Middle	70MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Middle	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Middle	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Middle	100MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n41.

**5G NR n66 MODE (SA_n66/ DC_2A_n66/ DC_5A_n66/ DC_7A_n66/ DC_12A_n66/ DC_13A_n66/
DC_14A_n66/ DC_30A_n66/ DC_48A_n66/ DC_71A_n66)**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	342500 to 355500	342500 to 355500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Middle	20MHz	QPSK	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Middle	30MHz	QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Middle	40MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n66.



5G NR n70 MODE (SA_n70)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	339500 to 341500	339500 to 341500	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		340000 to 341000	340000 to 341000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		340500	340500	Middle	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	339500 to 341500	339500 to 341500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		340000 to 341000	340000 to 341000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		340500	340500	Middle	15MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n70.

5G NR n71 MODE (SA_n71/ DC_2A_n71/ DC_7A_n71/ DC_48A_n71/ DC_66A_n71)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	133100 to 139100	133100 to 139100	Middle	5MHz	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Middle	15MHz	QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Middle	20MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n71.

**5G NR n77(Part27Q) MODE (SA_n77/ DC_2A_n77/ DC_5A_n77/ DC_7A_n77/ DC_12A_n77/
DC_13A_n77/ DC_14A_n77/ DC_25A_n77/ DC_30A_n77/ DC_41A_n77/ DC_66A_n77/
DC_71A_n77)**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		631000 to 635666	631000 to 635666	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		631668 to 635000	631668 to 635000	Low, Middle, High	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		632334 to 634332	632334 to 634332	Low, Middle, High	70MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	630334 to 636332	630334 to 636332	Middle	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Middle	20MHz	QPSK	1RB/ 0RB Offset
		631000 to 635666	631000 to 635666	Middle	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Middle	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 635000	631668 to 635000	Middle	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Middle	60MHz	QPSK	1RB/ 0RB Offset
		632334 to 634332	632334 to 634332	Middle	70MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Middle	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Middle	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst



case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n77(Part 27Q).

**5G NR n77(Part27O) MODE (SA_n77/ DC_2A_n77/ DC_5A_n77/ DC_7A_n77/ DC_12A_n77/
DC_13A_n77/ DC_14A_n77/DC_25A_n77/ DC_30A_n77/ DC_41A_n77/ DC_66A_n77/
DC_71A_n77)**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	647000 to 665000	647000 to 665000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647168 to 664832	647168 to 664832	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		632334 to 634332	632334 to 634332	Low, Middle, High	70MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	647000 to 665000	647000 to 665000	Middle	10MHz	QPSK	1RB/ 0RB Offset
		647168 to 664832	647168 to 664832	Middle	15MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Middle	20MHz	QPSK	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Middle	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Middle	40MHz	QPSK	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Middle	60MHz	QPSK	1RB/ 0RB Offset
		632334 to 634332	632334 to 634332	Middle	70MHz	QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Middle	80MHz	QPSK	1RB/ 0RB Offset



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

		649668 to 662332	649668 to 662332	Middle	90MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n77(Part 270).

5G NR Band n78(Part27Q) (SA_n78/ DC_2A_n78/ DC_4A_n78/ DC_5A_n78/ DC_7A_n78/ DC_12A_n78/ DC_13A_n78/ DC_25A_n78/ DC_26A_n78/ DC_38A_n78/ DC_41A_n78/ DC_66A_n78/ DC_71A_n78)

EUT CONFIGUR E MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	EIRP	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		631000 to 635666	631000 to 635666	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		631668 to 635000	631668 to 635000	Low, Middle, High	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		632334 to 634332	632334 to 634332	Low, Middle, High	70MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n78(Part27Q).

3.SA n78(Part27Q) are covered by SA n77(Part27Q), Because it has the same output power, supported bandwidths and frequency range, So the RSE test data please refer to SA n77(Part27Q).

**5G NR Band n78(Part270) (SA_n78/ DC_2A_n78/ DC_4A_n78/ DC_5A_n78/ DC_7A_n78/
DC_12A_n78/ DC_13A_n78/ DC_25A_n78/ DC_26A_n78/ DC_38A_n78/ DC_41A_n78/
DC_66A_n78/ DC_71A_n78)**

EUT CONFIGUR E MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	EIRP	647000 to 653000	647000 to 653000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647168 to 652832	647168 to 652832	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647334 to 652666	647334 to 652666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647668 to 652666	647668 to 652666	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648000 to 652000	648000 to 652000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648334 to 651666	648334 to 651666	Low, Middle, High	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648668 to 651332	648668 to 651332	Low, Middle, High	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649000 to 651000	649000 to 651000	Low, Middle, High	70MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649334 to 650666	649334 to 650666	Low, Middle, High	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649668 to 650332	649668 to 650332	Low, Middle, High	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		650000	650000	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n78(Part270).

3.SA n78(Part270) are covered by SA n77(Part270), Because it is a subset of SA n77(Part270) with the same output power and supported bandwidths, So the RSE test data please refer to SA n77(Part270).



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP/EIRP	23deg. C, 70%RH	DC 19V By Adapter	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	DC 19V By Adapter	Jace Hu



Test Report No.: W7L-P23070010RF09

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22/24/27/90

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

KDB 662911 D01 Multiple Transmitter Output v02r01

NOTE: All test items have been performed and recorded as per the above standards.



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p. (n5)

Mobile and portable stations are limited to 2 watts EIRP. (n2/n25)

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.(n7/n38/n41)”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP(n66)

According to the specific rule Part 27.50(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP(n12/n71)

According to the specific rule Part 27.50(j)(4) and Part 27.50(k)(3) ,Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.(n77/n78)

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.(n30)



Test Report No.: W7L-P23070010RF09

Per FCC Part 90.541 (d):

The transmitting power of a portable (hand-held) unit must not exceed 3 watts ERP. (n14)

Per FCC Part 90.635 (b):

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). (n26)

47 CFR 27.50(b)(10)

Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP. (n13)

47 CFR 27.50(d)(4)

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1-watt EIRP. Fixed stations operating in the 1710–1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications. (n70)

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

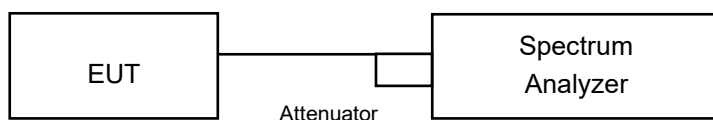
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

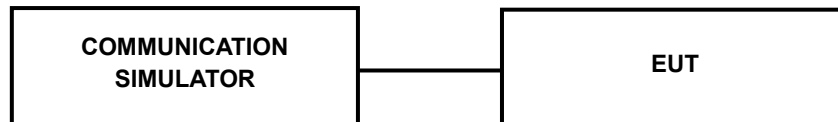
CONDUCTED POWER MEASUREMENT:

- The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



1. Connect the DUT transmitter output to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
2. Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
3. Set the span to twice the nominal EBW (span = 2 x EBW).
4. Set the resolution bandwidth (RBW) to approximately 1% of EBW.
5. Set the video bandwidth (VBW) to $\geq 3 \times$ RBW
6. Select the average power (RMS) display detector.
7. Set the number of measurement points to ≥ 1001 .
8. Use auto-coupled sweep time.
9. Perform measurement over an interval of time when the transmission is continuous and at its maximum power level.
10. Utilize trace averaging over 100 traces in the power averaging mode.
11. Use the Band/Channel Power function to determine the integrated power over the full EBW.
12. Record the band power level.
13. Adjust the recorded level by applying appropriate correction factors for the measurement set-up.
14. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.4 TEST RESULTS

EIRP
SISO
N2

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.57	-0.48	23.09	203.7	2
376000	1880	23.59	-0.48	23.11	204.64	2
381500	1907.5	22.98	-0.48	22.5	177.83	2

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.52	-0.48	23.04	201.37	2
376000	1880	23.49	-0.48	23.01	199.99	2
381500	1907.5	22.72	-0.48	22.24	167.49	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.36	-0.48	22.88	194.09	2
376000	1880	23.36	-0.48	22.88	194.09	2
381500	1907.5	21.55	-0.48	21.07	127.94	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	21.85	-0.48	21.37	137.09	2
376000	1880	21.91	-0.48	21.43	139	2
381500	1907.5	20.13	-0.48	19.65	92.26	2

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	20.1	-0.48	19.62	91.62	2
376000	1880	20.22	-0.48	19.74	94.19	2
381500	1907.5	18.71	-0.48	18.23	66.53	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.51	-0.48	23.03	200.91	2
376000	1880	23.68	-0.48	23.2	208.93	2
381000	1905	22.57	-0.48	22.09	161.81	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.41	-0.48	22.93	196.34	2
376000	1880	23.66	-0.48	23.18	207.97	2
381000	1905	22.39	-0.48	21.91	155.24	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	22.38	-0.48	21.9	154.88	2
376000	1880	23.17	-0.48	22.69	185.78	2
381000	1905	21.6	-0.48	21.12	129.42	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	21.39	-0.48	20.91	123.31	2
376000	1880	22.19	-0.48	21.71	148.25	2
381000	1905	20.18	-0.48	19.7	93.33	2

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	19.86	-0.48	19.38	86.7	2
376000	1880	20.26	-0.48	19.78	95.06	2
381000	1905	19.12	-0.48	18.64	73.11	2

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.67	-0.48	23.19	208.45	2
376000	1880	23.72	-0.48	23.24	210.86	2
380500	1902.5	22.91	-0.48	22.43	174.98	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.47	-0.48	22.99	199.07	2
376000	1880	23.75	-0.48	23.27	212.32	2
380500	1902.5	22.69	-0.48	22.21	166.34	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	22.76	-0.48	22.28	169.04	2
376000	1880	23.23	-0.48	22.75	188.36	2
380500	1902.5	21.85	-0.48	21.37	137.09	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	21.39	-0.48	20.91	123.31	2
376000	1880	21.83	-0.48	21.35	136.46	2
380500	1902.5	20.43	-0.48	19.95	98.86	2

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	19.81	-0.48	19.33	85.7	2
376000	1880	20.06	-0.48	19.58	90.78	2
380500	1902.5	19.21	-0.48	18.73	74.64	2

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.63	-0.48	23.15	206.54	2
376000	1880	23.68	-0.48	23.2	208.93	2
380000	1900	23.29	-0.48	22.81	190.99	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.52	-0.48	23.04	201.37	2
376000	1880	23.72	-0.48	23.24	210.86	2
380000	1900	23.06	-0.48	22.58	181.13	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	22.55	-0.48	22.07	161.06	2
376000	1880	23.01	-0.48	22.53	179.06	2
380000	1900	22.24	-0.48	21.76	149.97	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	21.33	-0.48	20.85	121.62	2
376000	1880	21.63	-0.48	21.15	130.32	2
380000	1900	20.82	-0.48	20.34	108.14	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	20.1	-0.48	19.62	91.62	2
376000	1880	20.08	-0.48	19.6	91.2	2
380000	1900	19.91	-0.48	19.43	87.7	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N5

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	23.64	-1.35	20.14	103.28	7
167300	836.5	23.74	-1.35	20.24	105.68	7
169300	846.5	23.63	-1.35	20.13	103.04	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	23.58	-1.35	20.08	101.86	7
167300	836.5	23.77	-1.35	20.27	106.41	7
169300	846.5	23.62	-1.35	20.12	102.8	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	24.05	-1.35	20.55	113.5	7
167300	836.5	24.17	-1.35	20.67	116.68	7
169300	846.5	24.03	-1.35	20.53	112.98	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	22.22	-1.35	18.72	74.47	7
167300	836.5	22.26	-1.35	18.76	75.16	7
169300	846.5	22.16	-1.35	18.66	73.45	7

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	20.01	-1.35	16.51	44.77	7
167300	836.5	20.17	-1.35	16.67	46.45	7
169300	846.5	20.01	-1.35	16.51	44.77	7

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.51	-1.35	20.01	100.23	7
167300	836.5	23.68	-1.35	20.18	104.23	7
168800	844	23.67	-1.35	20.17	103.99	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.51	-1.35	20.01	100.23	7
167300	836.5	23.69	-1.35	20.19	104.47	7
168800	844	23.69	-1.35	20.19	104.47	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.9	-1.35	20.4	109.65	7
167300	836.5	24.05	-1.35	20.55	113.5	7
168800	844	24.06	-1.35	20.56	113.76	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	22.01	-1.35	18.51	70.96	7
167300	836.5	22.18	-1.35	18.68	73.79	7
168800	844	22.21	-1.35	18.71	74.3	7

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	19.97	-1.35	16.47	44.36	7
167300	836.5	20.12	-1.35	16.62	45.92	7
168800	844	20.2	-1.35	16.7	46.77	7

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	23.85	-1.35	20.35	108.39	7
167300	836.5	23.9	-1.35	20.4	109.65	7
168300	841.5	23.89	-1.35	20.39	109.4	7

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	23.88	-1.35	20.38	109.14	7
167300	836.5	23.82	-1.35	20.32	107.65	7
168300	841.5	23.85	-1.35	20.35	108.39	7

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	24.27	-1.35	20.77	119.4	7
167300	836.5	24.15	-1.35	20.65	116.14	7
168300	841.5	24.08	-1.35	20.58	114.29	7

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	22.32	-1.35	18.82	76.21	7
167300	836.5	22.33	-1.35	18.83	76.38	7
168300	841.5	22.43	-1.35	18.93	78.16	7

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	20.21	-1.35	16.71	46.88	7
167300	836.5	20.26	-1.35	16.76	47.42	7
168300	841.5	20.31	-1.35	16.81	47.97	7

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.74	-1.35	20.24	105.68	7
167300	836.5	23.74	-1.35	20.24	105.68	7
167800	839	23.86	-1.35	20.36	108.64	7

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.76	-1.35	20.26	106.17	7
167300	836.5	23.74	-1.35	20.24	105.68	7
167800	839	23.83	-1.35	20.33	107.89	7

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	24.11	-1.35	20.61	115.08	7
167300	836.5	24	-1.35	20.5	112.2	7
167800	839	24.03	-1.35	20.53	112.98	7

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	22.31	-1.35	18.81	76.03	7
167300	836.5	22.27	-1.35	18.77	75.34	7
167800	839	22.43	-1.35	18.93	78.16	7

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	20.28	-1.35	16.78	47.64	7
167300	836.5	20.24	-1.35	16.74	47.21	7
167800	839	20.37	-1.35	16.87	48.64	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N7

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500500	2502.5	23.47	-0.56	22.91	195.43	2
507000	2535	23.53	-0.56	22.97	198.15	2
513500	2567.5	23.49	-0.56	22.93	196.34	2

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500500	2502.5	23.49	-0.56	22.93	196.34	2
507000	2535	23.58	-0.56	23.02	200.45	2
513500	2567.5	23.47	-0.56	22.91	195.43	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500500	2502.5	23.37	-0.56	22.81	190.99	2
507000	2535	23.43	-0.56	22.87	193.64	2
513500	2567.5	23.89	-0.56	23.33	215.28	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500500	2502.5	21.78	-0.56	21.22	132.43	2
507000	2535	22.22	-0.56	21.66	146.55	2
513500	2567.5	22.1	-0.56	21.54	142.56	2

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500500	2502.5	19.98	-0.56	19.42	87.5	2
507000	2535	20	-0.56	19.44	87.9	2
513500	2567.5	19.91	-0.56	19.35	86.1	2

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501000	2505	23.52	-0.56	22.96	197.7	2
507000	2535	23.58	-0.56	23.02	200.45	2
513000	2565	23.47	-0.56	22.91	195.43	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501000	2505	23.52	-0.56	22.96	197.7	2
507000	2535	23.58	-0.56	23.02	200.45	2
513000	2565	23.54	-0.56	22.98	198.61	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501000	2505	23.93	-0.56	23.37	217.27	2
507000	2535	23.95	-0.56	23.39	218.27	2
513000	2565	23.89	-0.56	23.33	215.28	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501000	2505	22	-0.56	21.44	139.32	2
507000	2535	22.06	-0.56	21.5	141.25	2
513000	2565	22.01	-0.56	21.45	139.64	2

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501000	2505	19.94	-0.56	19.38	86.7	2
507000	2535	20.15	-0.56	19.59	90.99	2
513000	2565	19.95	-0.56	19.39	86.9	2

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501500	2507.5	23.65	-0.56	23.09	203.7	2
507000	2535	23.8	-0.56	23.24	210.86	2
512500	2562.5	23.63	-0.56	23.07	202.77	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501500	2507.5	23.69	-0.56	23.13	205.59	2
507000	2535	23.78	-0.56	23.22	209.89	2
512500	2562.5	23.69	-0.56	23.13	205.59	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501500	2507.5	24.03	-0.56	23.47	222.33	2
507000	2535	24.09	-0.56	23.53	225.42	2
512500	2562.5	23.89	-0.56	23.33	215.28	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501500	2507.5	24.69	-0.56	24.13	258.82	2
507000	2535	22.35	-0.56	21.79	151.01	2
512500	2562.5	22.26	-0.56	21.7	147.91	2

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501500	2507.5	20.11	-0.56	19.55	90.16	2
507000	2535	20.18	-0.56	19.62	91.62	2
512500	2562.5	20.11	-0.56	19.55	90.16	2

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502000	2510	23.63	-0.56	23.07	202.77	2
507000	2535	23.72	-0.56	23.16	207.01	2
512000	2560	23.63	-0.56	23.07	202.77	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502000	2510	23.69	-0.56	23.13	205.59	2
507000	2535	23.69	-0.56	23.13	205.59	2
512000	2560	23.68	-0.56	23.12	205.12	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502000	2510	23.98	-0.56	23.42	219.79	2
507000	2535	23.55	-0.56	22.99	199.07	2
512000	2560	23.87	-0.56	23.31	214.29	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502000	2510	22.16	-0.56	21.6	144.54	2
507000	2535	22.27	-0.56	21.71	148.25	2
512000	2560	22.17	-0.56	21.61	144.88	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502000	2510	20.12	-0.56	19.56	90.36	2
507000	2535	20.2	-0.56	19.64	92.04	2
512000	2560	20.15	-0.56	19.59	90.99	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 25MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502500	2512.5	23.64	-0.56	23.08	203.24	2
507000	2535	23.77	-0.56	23.21	209.41	2
511500	2557.5	23.75	-0.56	23.19	208.45	2

CHANNEL BANDWIDTH: 25MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502500	2512.5	23.06	-0.56	22.5	177.83	2
507000	2535	23.74	-0.56	23.18	207.97	2
511500	2557.5	23.65	-0.56	23.09	203.7	2

CHANNEL BANDWIDTH: 25MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502500	2512.5	22.42	-0.56	21.86	153.46	2
507000	2535	23.87	-0.56	23.31	214.29	2
511500	2557.5	23.02	-0.56	22.46	176.2	2

CHANNEL BANDWIDTH: 25MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502500	2512.5	20.77	-0.56	20.21	104.95	2
507000	2535	21.98	-0.56	21.42	138.68	2
511500	2557.5	21.36	-0.56	20.8	120.23	2

CHANNEL BANDWIDTH: 25MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502500	2512.5	19.44	-0.56	18.88	77.27	2
507000	2535	20.25	-0.56	19.69	93.11	2
511500	2557.5	19.9	-0.56	19.34	85.9	2

CHANNEL BANDWIDTH: 30MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503000	2515	23.76	-0.56	23.2	208.93	2
507000	2535	23.7	-0.56	23.14	206.06	2
511000	2555	23.81	-0.56	23.25	211.35	2

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503000	2515	23.85	-0.56	23.29	213.3	2
507000	2535	23.62	-0.56	23.06	202.3	2
511000	2555	23.8	-0.56	23.24	210.86	2

CHANNEL BANDWIDTH: 30MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503000	2515	24	-0.56	23.44	220.8	2
507000	2535	23.49	-0.56	22.93	196.34	2
511000	2555	24.07	-0.56	23.51	224.39	2

CHANNEL BANDWIDTH: 30MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503000	2515	24.12	-0.56	23.56	226.99	2
507000	2535	22.03	-0.56	21.47	140.28	2
511000	2555	22.19	-0.56	21.63	145.55	2

CHANNEL BANDWIDTH: 30MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503000	2515	20.21	-0.56	19.65	92.26	2
507000	2535	20.18	-0.56	19.62	91.62	2
511000	2555	20.1	-0.56	19.54	89.95	2

CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504000	2520	23.74	-0.56	23.18	207.97	2
507000	2535	23.65	-0.56	23.09	203.7	2
510000	2550	23.71	-0.56	23.15	206.54	2

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504000	2520	23.81	-0.56	23.25	211.35	2
507000	2535	23.58	-0.56	23.02	200.45	2
510000	2550	23.78	-0.56	23.22	209.89	2

CHANNEL BANDWIDTH: 40MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504000	2520	23.66	-0.56	23.1	204.17	2
507000	2535	23.88	-0.56	23.32	214.78	2
510000	2550	24.02	-0.56	23.46	221.82	2

CHANNEL BANDWIDTH: 40MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504000	2520	22.21	-0.56	21.65	146.22	2
507000	2535	22.12	-0.56	21.56	143.22	2
510000	2550	22.17	-0.56	21.61	144.88	2

CHANNEL BANDWIDTH: 40MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504000	2520	20.22	-0.56	19.66	92.47	2
507000	2535	20.16	-0.56	19.6	91.2	2
510000	2550	20.21	-0.56	19.65	92.26	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N12

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	23.46	-5.75	15.56	35.97	3
141500	707.5	23.56	-5.75	15.66	36.81	3
142700	713.5	23.56	-5.75	15.66	36.81	3

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	23.43	-5.75	15.53	35.73	3
141500	707.5	23.55	-5.75	15.65	36.73	3
142700	713.5	23.56	-5.75	15.66	36.81	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	23.41	-5.75	15.51	35.56	3
141500	707.5	23.57	-5.75	15.67	36.9	3
142700	713.5	23.65	-5.75	15.75	37.58	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	21.91	-5.75	14.01	25.18	3
141500	707.5	21.95	-5.75	14.05	25.41	3
142700	713.5	22.03	-5.75	14.13	25.88	3

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	19.9	-5.75	12	15.85	3
141500	707.5	19.97	-5.75	12.07	16.11	3
142700	713.5	19.92	-5.75	12.02	15.92	3

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	23.41	-5.75	15.51	35.56	3
141500	707.5	23.5	-5.75	15.6	36.31	3
142200	711	23.6	-5.75	15.7	37.15	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	23.36	-5.75	15.46	35.16	3
141500	707.5	23.45	-5.75	15.55	35.89	3
142200	711	23.51	-5.75	15.61	36.39	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	23.81	-5.75	15.91	38.99	3
141500	707.5	23.86	-5.75	15.96	39.45	3
142200	711	23.9	-5.75	16	39.81	3

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	21.83	-5.75	13.93	24.72	3
141500	707.5	21.92	-5.75	14.02	25.23	3
142200	711	22.03	-5.75	14.13	25.88	3

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	19.86	-5.75	11.96	15.7	3
141500	707.5	19.92	-5.75	12.02	15.92	3
142200	711	19.94	-5.75	12.04	16	3

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	23.6	-5.75	15.7	37.15	3
141500	707.5	23.71	-5.75	15.81	38.11	3
141700	708.5	23.72	-5.75	15.82	38.19	3

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	23.61	-5.75	15.71	37.24	3
141500	707.5	23.67	-5.75	15.77	37.76	3
141700	708.5	23.69	-5.75	15.79	37.93	3

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	23.41	-5.75	15.51	35.56	3
141500	707.5	23.99	-5.75	16.09	40.64	3
141700	708.5	23.42	-5.75	15.52	35.65	3

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	22.12	-5.75	14.22	26.42	3
141500	707.5	22.23	-5.75	14.33	27.1	3
141700	708.5	22.2	-5.75	14.3	26.92	3

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	20.06	-5.75	12.16	16.44	3
141500	707.5	20.13	-5.75	12.23	16.71	3
141700	708.5	20.13	-5.75	12.23	16.71	3

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N13

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
155900	779.5	23.4	-4.92	16.33	42.95	3
156400	782	23.4	-4.92	16.33	42.95	3
156900	784.5	23.33	-4.92	16.26	42.27	3

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
155900	779.5	23.38	-4.92	16.31	42.76	3
156400	782	23.37	-4.92	16.3	42.66	3
156900	784.5	23.26	-4.92	16.19	41.59	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
155900	779.5	23.34	-4.92	16.27	42.36	3
156400	782	23.47	-4.92	16.4	43.65	3
156900	784.5	23.68	-4.92	16.61	45.81	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
155900	779.5	21.93	-4.92	14.86	30.62	3
156400	782	22.02	-4.92	14.95	31.26	3
156900	784.5	21.79	-4.92	14.72	29.65	3

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
155900	779.5	20	-4.92	12.93	19.63	3
156400	782	19.83	-4.92	12.76	18.88	3
156900	784.5	19.51	-4.92	12.44	17.54	3

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
156400	782	23.38	-4.92	16.31	42.76	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
156400	782	23.34	-4.92	16.27	42.36	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
156400	782	23.67	-4.92	16.6	45.71	3

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
156400	782	21.9	-4.92	14.83	30.41	3

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
156400	782	19.5	-4.92	12.43	17.5	3



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N14

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158100	790.5	23.36	-4.46	16.75	47.32	3
158600	793	23.29	-4.46	16.68	46.56	3
159100	795.5	23.28	-4.46	16.67	46.45	3

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158100	790.5	23.34	-4.46	16.73	47.1	3
158600	793	23.26	-4.46	16.65	46.24	3
159100	795.5	23.25	-4.46	16.64	46.13	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158100	790.5	23.73	-4.46	17.12	51.52	3
158600	793	23.64	-4.46	17.03	50.47	3
159100	795.5	23.55	-4.46	16.94	49.43	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158100	790.5	21.92	-4.46	15.31	33.96	3
158600	793	21.78	-4.46	15.17	32.89	3
159100	795.5	21.8	-4.46	15.19	33.04	3

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158100	790.5	19.74	-4.46	13.13	20.56	3
158600	793	19.58	-4.46	12.97	19.82	3
159100	795.5	19.58	-4.46	12.97	19.82	3



Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	23.29	-4.46	16.68	46.56	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	23.32	-4.46	16.71	46.88	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	23.78	-4.46	17.17	52.12	3

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	21.71	-4.46	15.1	32.36	3

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	19.63	-4.46	13.02	20.04	3

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N25

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.62	-0.48	23.14	206.06	2
376000	1882.5	23.77	-0.48	23.29	213.3	2
382500	1912.5	23.23	-0.48	22.75	188.36	2

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.67	-0.48	23.19	208.45	2
376000	1882.5	23.81	-0.48	23.33	215.28	2
382500	1912.5	22.97	-0.48	22.49	177.42	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.09	-0.48	22.61	182.39	2
376000	1882.5	23.22	-0.48	22.74	187.93	2
382500	1912.5	22.19	-0.48	21.71	148.25	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	21.3	-0.48	20.82	120.78	2
376000	1882.5	21.41	-0.48	20.93	123.88	2
382500	1912.5	20.34	-0.48	19.86	96.83	2

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	19.13	-0.48	18.65	73.28	2
376000	1882.5	19.2	-0.48	18.72	74.47	2
382500	1912.5	18.96	-0.48	18.48	70.47	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.6	-0.48	23.12	205.12	2
376500	1882.5	23.62	-0.48	23.14	206.06	2
382000	1910	23.52	-0.48	23.04	201.37	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.63	-0.48	23.15	206.54	2
376500	1882.5	23.7	-0.48	23.22	209.89	2
382000	1910	23.28	-0.48	22.8	190.55	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.1	-0.48	22.62	182.81	2
376500	1882.5	23.15	-0.48	22.67	184.93	2
382000	1910	22	-0.48	21.52	141.91	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	21.28	-0.48	20.8	120.23	2
376500	1882.5	21.28	-0.48	20.8	120.23	2
382000	1910	20.97	-0.48	20.49	111.94	2

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	19.19	-0.48	18.71	74.3	2
376500	1882.5	19.22	-0.48	18.74	74.82	2
382000	1910	19.14	-0.48	18.66	73.45	2

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.8	-0.48	23.32	214.78	2
376500	1882.5	23.76	-0.48	23.28	212.81	2
381500	1907.5	23.08	-0.48	22.6	181.97	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.94	-0.48	23.46	221.82	2
376500	1882.5	23.87	-0.48	23.39	218.27	2
381500	1907.5	22.89	-0.48	22.41	174.18	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	22.93	-0.48	22.45	175.79	2
376500	1882.5	23.21	-0.48	22.73	187.5	2
381500	1907.5	22.1	-0.48	21.62	145.21	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	21.41	-0.48	20.93	123.88	2
376500	1882.5	21.5	-0.48	21.02	126.47	2
381500	1907.5	20.68	-0.48	20.2	104.71	2

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	19.21	-0.48	18.73	74.64	2
376500	1882.5	19.39	-0.48	18.91	77.8	2
381500	1907.5	19	-0.48	18.52	71.12	2

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.74	-0.48	23.26	211.84	2
376500	1882.5	23.72	-0.48	23.24	210.86	2
381000	1905	23.4	-0.48	22.92	195.88	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.86	-0.48	23.38	217.77	2
376500	1882.5	23.79	-0.48	23.31	214.29	2
381000	1905	23.45	-0.48	22.97	198.15	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.2	-0.48	22.72	187.07	2
376500	1882.5	23.23	-0.48	22.75	188.36	2
381000	1905	22.61	-0.48	22.13	163.31	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	21.35	-0.48	20.87	122.18	2
376500	1882.5	21.39	-0.48	20.91	123.31	2
381000	1905	21.09	-0.48	20.61	115.08	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	19.32	-0.48	18.84	76.56	2
376500	1882.5	19.44	-0.48	18.96	78.7	2
381000	1905	19.07	-0.48	18.59	72.28	2

CHANNEL BANDWIDTH: 25MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372500	1862.5	24.01	-0.48	23.53	225.42	2
376500	1882.5	24.02	-0.48	23.54	225.94	2
380500	1902.5	23.96	-0.48	23.48	222.84	2

CHANNEL BANDWIDTH: 25MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372500	1862.5	24.15	-0.48	23.67	232.81	2
376500	1882.5	24.03	-0.48	23.55	226.46	2
380500	1902.5	23.96	-0.48	23.48	222.84	2

CHANNEL BANDWIDTH: 25MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372500	1862.5	23.54	-0.48	23.06	202.3	2
376500	1882.5	23.47	-0.48	22.99	199.07	2
380500	1902.5	23.13	-0.48	22.65	184.08	2

CHANNEL BANDWIDTH: 25MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372500	1862.5	23.36	-0.48	22.88	194.09	2
376500	1882.5	21.5	-0.48	21.02	126.47	2
380500	1902.5	21.34	-0.48	20.86	121.9	2

CHANNEL BANDWIDTH: 25MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372500	1862.5	19.62	-0.48	19.14	82.04	2
376500	1882.5	19.68	-0.48	19.2	83.18	2
380500	1902.5	19.35	-0.48	18.87	77.09	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 30MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
373000	1865	23.88	-0.48	23.4	218.78	2
376500	1882.5	23.88	-0.48	23.4	218.78	2
380000	1900	23.9	-0.48	23.42	219.79	2

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
373000	1865	24.01	-0.48	23.53	225.42	2
376500	1882.5	23.94	-0.48	23.46	221.82	2
380000	1900	23.78	-0.48	23.3	213.8	2

CHANNEL BANDWIDTH: 30MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
373000	1865	23.33	-0.48	22.85	192.75	2
376500	1882.5	23.37	-0.48	22.89	194.54	2
380000	1900	22.98	-0.48	22.5	177.83	2

CHANNEL BANDWIDTH: 30MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
373000	1865	21.57	-0.48	21.09	128.53	2
376500	1882.5	21.59	-0.48	21.11	129.12	2
380000	1900	21.25	-0.48	20.77	119.4	2

CHANNEL BANDWIDTH: 30MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
373000	1865	19.59	-0.48	19.11	81.47	2
376500	1882.5	19.54	-0.48	19.06	80.54	2
380000	1900	19.26	-0.48	18.78	75.51	2

CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	23.81	-0.48	23.33	215.28	2
376500	1882.5	23.95	-0.48	23.47	222.33	2
379000	1895	23.83	-0.48	23.35	216.27	2

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	23.82	-0.48	23.34	215.77	2
376500	1882.5	23.89	-0.48	23.41	219.28	2
379000	1895	23.87	-0.48	23.39	218.27	2

CHANNEL BANDWIDTH: 40MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	23.05	-0.48	22.57	180.72	2
376500	1882.5	23.22	-0.48	22.74	187.93	2
379000	1895	23.32	-0.48	22.84	192.31	2

CHANNEL BANDWIDTH: 40MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	21.57	-0.48	21.09	128.53	2
376500	1882.5	21.46	-0.48	20.98	125.31	2
379000	1895	21.47	-0.48	20.99	125.6	2

CHANNEL BANDWIDTH: 40MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	19.63	-0.48	19.15	82.22	2
376500	1882.5	19.49	-0.48	19.01	79.62	2
379000	1895	19.5	-0.48	19.02	79.8	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N26(Part90)

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163300	816.5	23.43	-1.35	19.93	98.4	100
163800	819	23.49	-1.35	19.99	99.77	100
164300	821.5	23.41	-1.35	19.91	97.95	100

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163300	816.5	23.51	-1.35	20.01	100.23	100
163800	819	23.46	-1.35	19.96	99.08	100
164300	821.5	23.42	-1.35	19.92	98.17	100

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163300	816.5	23.45	-1.35	19.95	98.86	100
163800	819	23.82	-1.35	20.32	107.65	100
164300	821.5	23.84	-1.35	20.34	108.14	100

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163300	816.5	22.06	-1.35	18.56	71.78	100
163800	819	21.99	-1.35	18.49	70.63	100
164300	821.5	22.04	-1.35	18.54	71.45	100

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163300	816.5	19.84	-1.35	16.34	43.05	100
163800	819	19.87	-1.35	16.37	43.35	100
164300	821.5	19.83	-1.35	16.33	42.95	100



Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163800	819	23.5	-1.35	20	100	100

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163800	819	23.44	-1.35	19.94	98.63	100

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163800	819	23.88	-1.35	20.38	109.14	100

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163800	819	22.02	-1.35	18.52	71.12	100

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163800	819	19.9	-1.35	16.4	43.65	100

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N26(Part22)

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	23.36	-1.35	19.86	96.83	7
167300	836.5	23.69	-1.35	20.19	104.47	7
169300	846.5	23.58	-1.35	20.08	101.86	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	23.35	-1.35	19.85	96.61	7
167300	836.5	23.64	-1.35	20.14	103.28	7
169300	846.5	23.56	-1.35	20.06	101.39	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	23.79	-1.35	20.29	106.91	7
167300	836.5	24.07	-1.35	20.57	114.02	7
169300	846.5	24.02	-1.35	20.52	112.72	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	22	-1.35	18.5	70.79	7
167300	836.5	22.3	-1.35	18.8	75.86	7
169300	846.5	22.15	-1.35	18.65	73.28	7

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	19.81	-1.35	16.31	42.76	7
167300	836.5	20.1	-1.35	16.6	45.71	7
169300	846.5	19.99	-1.35	16.49	44.57	7

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.48	-1.35	19.98	99.54	7
167300	836.5	23.7	-1.35	20.2	104.71	7
168800	844	23.69	-1.35	20.19	104.47	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.51	-1.35	20.01	100.23	7
167300	836.5	23.68	-1.35	20.18	104.23	7
168800	844	23.69	-1.35	20.19	104.47	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.93	-1.35	20.43	110.41	7
167300	836.5	24.06	-1.35	20.56	113.76	7
168800	844	24.09	-1.35	20.59	114.55	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	21.93	-1.35	18.43	69.66	7
167300	836.5	21.79	-1.35	18.29	67.45	7
168800	844	22.2	-1.35	18.7	74.13	7

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	19.87	-1.35	16.37	43.35	7
167300	836.5	20.16	-1.35	16.66	46.34	7
168800	844	20.18	-1.35	16.68	46.56	7

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	23.75	-1.35	20.25	105.93	7
167300	836.5	23.74	-1.35	20.24	105.68	7
168300	841.5	23.76	-1.35	20.26	106.17	7

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	23.79	-1.35	20.29	106.91	7
167300	836.5	23.75	-1.35	20.25	105.93	7
168300	841.5	23.79	-1.35	20.29	106.91	7

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	24.18	-1.35	20.68	116.95	7
167300	836.5	24.06	-1.35	20.56	113.76	7
168300	841.5	24.03	-1.35	20.53	112.98	7

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	22.22	-1.35	18.72	74.47	7
167300	836.5	22.26	-1.35	18.76	75.16	7
168300	841.5	22.34	-1.35	18.84	76.56	7

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	20.15	-1.35	16.65	46.24	7
167300	836.5	20.16	-1.35	16.66	46.34	7
168300	841.5	20.22	-1.35	16.72	46.99	7

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.71	-1.35	20.21	104.95	7
167300	836.5	23.67	-1.35	20.17	103.99	7
167800	839	23.75	-1.35	20.25	105.93	7

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.72	-1.35	20.22	105.2	7
167300	836.5	23.67	-1.35	20.17	103.99	7
167800	839	23.73	-1.35	20.23	105.44	7

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	24.15	-1.35	20.65	116.14	7
167300	836.5	24.03	-1.35	20.53	112.98	7
167800	839	23.69	-1.35	20.19	104.47	7

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	22.2	-1.35	18.7	74.13	7
167300	836.5	22.22	-1.35	18.72	74.47	7
167800	839	22.33	-1.35	18.83	76.38	7

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	20.17	-1.35	16.67	46.45	7
167300	836.5	20.15	-1.35	16.65	46.24	7
167800	839	20.26	-1.35	16.76	47.42	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

N30

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
461500	2307.5	23.62	-1.95	21.67	146.89	0.25
462000	2310	23.63	-1.95	21.68	147.23	0.25
462500	2312.5	23.59	-1.95	21.64	145.88	0.25

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
461500	2307.5	23.61	-1.95	21.66	146.55	0.25
462000	2310	23.54	-1.95	21.59	144.21	0.25
462500	2312.5	23.56	-1.95	21.61	144.88	0.25

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
461500	2307.5	23.56	-1.95	21.61	144.88	0.25
462000	2310	22.75	-1.95	20.8	120.23	0.25
462500	2312.5	22.85	-1.95	20.9	123.03	0.25

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
461500	2307.5	21.77	-1.95	19.82	95.94	0.25
462000	2310	21.04	-1.95	19.09	81.1	0.25
462500	2312.5	21.17	-1.95	19.22	83.56	0.25

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
461500	2307.5	20.04	-1.95	18.09	64.42	0.25
462000	2310	19.52	-1.95	17.57	57.15	0.25
462500	2312.5	19.7	-1.95	17.75	59.57	0.25

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
462000	2310	23.27	-1.95	21.32	135.52	0.25

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
462000	2310	23.11	-1.95	21.16	130.62	0.25

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
462000	2310	22.57	-1.95	20.62	115.35	0.25

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
462000	2310	21.72	-1.95	19.77	94.84	0.25

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W/5MHz)
462000	2310	19.98	-1.95	18.03	63.53	0.25



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N38

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515000	2575	25.16	0.04	25.2	331.13	2
519000	2595	25.03	0.04	25.07	321.37	2
523000	2615	25.19	0.04	25.23	333.43	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515000	2575	24.98	0.04	25.02	317.69	2
519000	2595	25.09	0.04	25.13	325.84	2
523000	2615	25.18	0.04	25.22	332.66	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515000	2575	24.07	0.04	24.11	257.63	2
519000	2595	24.11	0.04	24.15	260.02	2
523000	2615	24.25	0.04	24.29	268.53	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515000	2575	22.35	0.04	22.39	173.38	2
519000	2595	22.55	0.04	22.59	181.55	2
523000	2615	22.67	0.04	22.71	186.64	2

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515000	2575	20.22	0.04	20.26	106.17	2
519000	2595	20.43	0.04	20.47	111.43	2
523000	2615	20.53	0.04	20.57	114.02	2



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515500	2577.5	25.26	0.04	25.3	338.84	2
519000	2595	25.29	0.04	25.33	341.19	2
522500	2612.5	25.38	0.04	25.42	348.34	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515500	2577.5	25.14	0.04	25.18	329.61	2
519000	2595	25.27	0.04	25.31	339.63	2
522500	2612.5	25.3	0.04	25.34	341.98	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515500	2577.5	24.09	0.04	24.13	258.82	2
519000	2595	24.32	0.04	24.36	272.9	2
522500	2612.5	24.25	0.04	24.29	268.53	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515500	2577.5	22.57	0.04	22.61	182.39	2
519000	2595	22.7	0.04	22.74	187.93	2
522500	2612.5	22.62	0.04	22.66	184.5	2

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515500	2577.5	20.51	0.04	20.55	113.5	2
519000	2595	20.67	0.04	20.71	117.76	2
522500	2612.5	20.63	0.04	20.67	116.68	2



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	24.37	0.04	24.41	276.06	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	24.32	0.04	24.36	272.9	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	24.18	0.04	24.22	264.24	2

N41

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	26.58	0.28	26.86	485.29	2
518598	2592.99	26.84	0.28	27.12	515.23	2
535998	2679.99	26.74	0.28	27.02	503.5	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	26.63	0.28	26.91	490.91	2
518598	2592.99	26.82	0.28	27.1	512.86	2
535998	2679.99	26.72	0.28	27	501.19	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	25.58	0.28	25.86	385.48	2
518598	2592.99	25.81	0.28	26.09	406.44	2
535998	2679.99	25.59	0.28	25.87	386.37	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	24.2	0.28	24.48	280.54	2
518598	2592.99	24.2	0.28	24.48	280.54	2
535998	2679.99	24.03	0.28	24.31	269.77	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.12	0.28	22.4	173.78	2
518598	2592.99	22.16	0.28	22.44	175.39	2
535998	2679.99	22.02	0.28	22.3	169.82	2

CHANNEL BANDWIDTH: 30MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	26.78	0.28	27.06	508.16	2
518598	2592.99	27.03	0.28	27.31	538.27	2
534996	2674.98	26.91	0.28	27.19	523.6	2

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	26.74	0.28	27.02	503.5	2
518598	2592.99	26.99	0.28	27.27	533.33	2
534996	2674.98	26.96	0.28	27.24	529.66	2

CHANNEL BANDWIDTH: 30MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	25.77	0.28	26.05	402.72	2
518598	2592.99	26.06	0.28	26.34	430.53	2
534996	2674.98	25.78	0.28	26.06	403.65	2

CHANNEL BANDWIDTH: 30MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	24.06	0.28	24.34	271.64	2
518598	2592.99	24.25	0.28	24.53	283.79	2
534996	2674.98	24.03	0.28	24.31	269.77	2

CHANNEL BANDWIDTH: 30MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	22.15	0.28	22.43	174.98	2
518598	2592.99	22.39	0.28	22.67	184.93	2
534996	2674.98	22.03	0.28	22.31	170.22	2

CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	27	0.28	27.28	534.56	2
518598	2592.99	26.98	0.28	27.26	532.11	2
534000	2670	26.99	0.28	27.27	533.33	2

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	27.01	0.28	27.29	535.8	2
518598	2592.99	26.98	0.28	27.26	532.11	2
534000	2670	27.04	0.28	27.32	539.51	2

CHANNEL BANDWIDTH: 40MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	25.84	0.28	26.12	409.26	2
518598	2592.99	25.93	0.28	26.21	417.83	2
534000	2670	25.82	0.28	26.1	407.38	2

CHANNEL BANDWIDTH: 40MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	24.22	0.28	24.5	281.84	2
518598	2592.99	24.27	0.28	24.55	285.1	2
534000	2670	24.11	0.28	24.39	274.79	2

CHANNEL BANDWIDTH: 40MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.23	0.28	22.51	178.24	2
518598	2592.99	22.25	0.28	22.53	179.06	2
534000	2670	22.13	0.28	22.41	174.18	2

CHANNEL BANDWIDTH: 50MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	26.7	0.28	26.98	498.88	2
518598	2592.99	26.91	0.28	27.19	523.6	2
532998	2664.99	26.78	0.28	27.06	508.16	2

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	26.69	0.28	26.97	497.74	2
518598	2592.99	26.85	0.28	27.13	516.42	2
532998	2664.99	26.74	0.28	27.02	503.5	2

CHANNEL BANDWIDTH: 50MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	25.72	0.28	26	398.11	2
518598	2592.99	25.81	0.28	26.09	406.44	2
532998	2664.99	25.67	0.28	25.95	393.55	2

CHANNEL BANDWIDTH: 50MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	24.18	0.28	24.46	279.25	2
518598	2592.99	24.19	0.28	24.47	279.9	2
532998	2664.99	23.95	0.28	24.23	264.85	2

CHANNEL BANDWIDTH: 50MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	22.14	0.28	22.42	174.58	2
518598	2592.99	22.28	0.28	22.56	180.3	2
532998	2664.99	22.14	0.28	22.42	174.58	2

CHANNEL BANDWIDTH: 60MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	26.67	0.28	26.95	495.45	2
518598	2592.99	26.89	0.28	27.17	521.19	2
531996	2659.98	26.78	0.28	27.06	508.16	2

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	26.69	0.28	26.97	497.74	2
518598	2592.99	26.79	0.28	27.07	509.33	2
531996	2659.98	26.82	0.28	27.1	512.86	2

CHANNEL BANDWIDTH: 60MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	25.58	0.28	25.86	385.48	2
518598	2592.99	25.93	0.28	26.21	417.83	2
531996	2659.98	25.66	0.28	25.94	392.64	2

CHANNEL BANDWIDTH: 60MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	24.13	0.28	24.41	276.06	2
518598	2592.99	24.22	0.28	24.5	281.84	2
531996	2659.98	24.09	0.28	24.37	273.53	2

CHANNEL BANDWIDTH: 60MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.05	0.28	22.33	171	2
518598	2592.99	22.24	0.28	22.52	178.65	2
531996	2659.98	22.15	0.28	22.43	174.98	2

CHANNEL BANDWIDTH: 70MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
506202	2531.01	26.62	0.28	26.9	489.78	2
518598	2592.99	26.87	0.28	27.15	518.8	2
531000	2655	26.63	0.28	26.91	490.91	2

CHANNEL BANDWIDTH: 70MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
506202	2531.01	26.63	0.28	26.91	490.91	2
518598	2592.99	26.82	0.28	27.1	512.86	2
531000	2655	26.68	0.28	26.96	496.59	2

CHANNEL BANDWIDTH: 70MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
506202	2531.01	25.65	0.28	25.93	391.74	2
518598	2592.99	25.88	0.28	26.16	413.05	2
531000	2655	25.68	0.28	25.96	394.46	2

CHANNEL BANDWIDTH: 70MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
506202	2531.01	24	0.28	24.28	267.92	2
518598	2592.99	24.06	0.28	24.34	271.64	2
531000	2655	24.04	0.28	24.32	270.4	2

CHANNEL BANDWIDTH: 70MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
506202	2531.01	21.98	0.28	22.26	168.27	2
518598	2592.99	22.1	0.28	22.38	172.98	2
531000	2655	22.03	0.28	22.31	170.22	2

CHANNEL BANDWIDTH: 80MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	26.55	0.28	26.83	481.95	2
518598	2592.99	26.78	0.28	27.06	508.16	2
529998	2649.99	26.63	0.28	26.91	490.91	2

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	26.61	0.28	26.89	488.65	2
518598	2592.99	26.74	0.28	27.02	503.5	2
529998	2649.99	26.73	0.28	27.01	502.34	2

CHANNEL BANDWIDTH: 80MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	25.51	0.28	25.79	379.31	2
518598	2592.99	25.69	0.28	25.97	395.37	2
529998	2649.99	25.51	0.28	25.79	379.31	2

CHANNEL BANDWIDTH: 80MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	24.01	0.28	24.29	268.53	2
518598	2592.99	24.03	0.28	24.31	269.77	2
529998	2649.99	24.03	0.28	24.31	269.77	2

CHANNEL BANDWIDTH: 80MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	21.97	0.28	22.25	167.88	2
518598	2592.99	22.05	0.28	22.33	171	2
529998	2649.99	22.04	0.28	22.32	170.61	2

CHANNEL BANDWIDTH: 90MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	26.56	0.28	26.84	483.06	2
518598	2592.99	26.73	0.28	27.01	502.34	2
528996	2644.98	26.7	0.28	26.98	498.88	2

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	26.51	0.28	26.79	477.53	2
518598	2592.99	26.76	0.28	27.04	505.82	2
528996	2644.98	26.77	0.28	27.05	506.99	2

CHANNEL BANDWIDTH: 90MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	25.56	0.28	25.84	383.71	2
518598	2592.99	25.62	0.28	25.9	389.05	2
528996	2644.98	25.64	0.28	25.92	390.84	2

CHANNEL BANDWIDTH: 90MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	23.96	0.28	24.24	265.46	2
518598	2592.99	24.03	0.28	24.31	269.77	2
528996	2644.98	24.05	0.28	24.33	271.02	2

CHANNEL BANDWIDTH: 90MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	21.96	0.28	22.24	167.49	2
518598	2592.99	22.06	0.28	22.34	171.4	2
528996	2644.98	22.05	0.28	22.33	171	2



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	26.87	0.28	27.15	518.8	2
518598	2592.99	26.7	0.28	26.98	498.88	2
528000	2640	26.81	0.28	27.09	511.68	2

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	26.85	0.28	27.13	516.42	2
518598	2592.99	26.75	0.28	27.03	504.66	2
528000	2640	26.78	0.28	27.06	508.16	2

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	25.84	0.28	26.12	409.26	2
518598	2592.99	25.68	0.28	25.96	394.46	2
528000	2640	25.64	0.28	25.92	390.84	2

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	24.01	0.28	24.29	268.53	2
518598	2592.99	24	0.28	24.28	267.92	2
528000	2640	24.15	0.28	24.43	277.33	2

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	22.18	0.28	22.46	176.2	2
518598	2592.99	22.05	0.28	22.33	171	2
528000	2640	22.12	0.28	22.4	173.78	2

N66

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	23.78	-1.45	22.33	171	1
349000	1745	23.78	-1.45	22.33	171	1
355500	1777.5	23.54	-1.45	22.09	161.81	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	23.74	-1.45	22.29	169.43	1
349000	1745	23.79	-1.45	22.34	171.4	1
355500	1777.5	23.5	-1.45	22.05	160.32	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	23.96	-1.45	22.51	178.24	1
349000	1745	24.19	-1.45	22.74	187.93	1
355500	1777.5	22.82	-1.45	21.37	137.09	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	21.98	-1.45	20.53	112.98	1
349000	1745	22.35	-1.45	20.9	123.03	1
355500	1777.5	20.99	-1.45	19.54	89.95	1

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	20.16	-1.45	18.71	74.3	1
349000	1745	20.15	-1.45	18.7	74.13	1
355500	1777.5	19.4	-1.45	17.95	62.37	1

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	23.81	-1.45	22.36	172.19	1
349000	1745	23.75	-1.45	22.3	169.82	1
355000	1775	23.59	-1.45	22.14	163.68	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	23.81	-1.45	22.36	172.19	1
349000	1745	23.83	-1.45	22.38	172.98	1
355000	1775	23.59	-1.45	22.14	163.68	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	23	-1.45	21.55	142.89	1
349000	1745	24.23	-1.45	22.78	189.67	1
355000	1775	23.93	-1.45	22.48	177.01	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	21.63	-1.45	20.18	104.23	1
349000	1745	22.28	-1.45	20.83	121.06	1
355000	1775	22.06	-1.45	20.61	115.08	1

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	20.07	-1.45	18.62	72.78	1
349000	1745	20.27	-1.45	18.82	76.21	1
355000	1775	20.03	-1.45	18.58	72.11	1

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	24.04	-1.45	22.59	181.55	1
349000	1745	24.01	-1.45	22.56	180.3	1
354500	1772.5	23.75	-1.45	22.3	169.82	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	24.08	-1.45	22.63	183.23	1
349000	1745	24	-1.45	22.55	179.89	1
354500	1772.5	23.75	-1.45	22.3	169.82	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	24.44	-1.45	22.99	199.07	1
349000	1745	24.34	-1.45	22.89	194.54	1
354500	1772.5	24.11	-1.45	22.66	184.5	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	22.46	-1.45	21.01	126.18	1
349000	1745	22.47	-1.45	21.02	126.47	1
354500	1772.5	22.08	-1.45	20.63	115.61	1

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	20.46	-1.45	19.01	79.62	1
349000	1745	20.41	-1.45	18.96	78.7	1
354500	1772.5	20.27	-1.45	18.82	76.21	1

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	24.06	-1.45	22.61	182.39	1
349000	1745	23.93	-1.45	22.48	177.01	1
354000	1770	23.81	-1.45	22.36	172.19	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	24.09	-1.45	22.64	183.65	1
349000	1745	23.98	-1.45	22.53	179.06	1
354000	1770	23.82	-1.45	22.37	172.58	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	23.65	-1.45	22.2	165.96	1
349000	1745	24.39	-1.45	22.94	196.79	1
354000	1770	23.56	-1.45	22.11	162.55	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	22.44	-1.45	20.99	125.6	1
349000	1745	22.5	-1.45	21.05	127.35	1
354000	1770	22.16	-1.45	20.71	117.76	1

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	20.42	-1.45	18.97	78.89	1
349000	1745	20.44	-1.45	18.99	79.25	1
354000	1770	20.35	-1.45	18.9	77.62	1

CHANNEL BANDWIDTH: 30MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
345000	1725	23.99	-1.45	22.54	179.47	1
349000	1745	23.99	-1.45	22.54	179.47	1
353000	1765	23.85	-1.45	22.4	173.78	1

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
345000	1725	24.04	-1.45	22.59	181.55	1
349000	1745	23.96	-1.45	22.51	178.24	1
353000	1765	23.8	-1.45	22.35	171.79	1

CHANNEL BANDWIDTH: 30MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
345000	1725	24.39	-1.45	22.94	196.79	1
349000	1745	24.28	-1.45	22.83	191.87	1
353000	1765	23.92	-1.45	22.47	176.6	1

CHANNEL BANDWIDTH: 30MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
345000	1725	22.63	-1.45	21.18	131.22	1
349000	1745	22.52	-1.45	21.07	127.94	1
353000	1765	22.42	-1.45	20.97	125.03	1

CHANNEL BANDWIDTH: 30MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
345000	1725	20.63	-1.45	19.18	82.79	1
349000	1745	20.57	-1.45	19.12	81.66	1
353000	1765	20.51	-1.45	19.06	80.54	1

CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	24.04	-1.45	22.59	181.55	1
349000	1745	23.99	-1.45	22.54	179.47	1
352000	1760	23.85	-1.45	22.4	173.78	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	24.06	-1.45	22.61	182.39	1
349000	1745	23.93	-1.45	22.48	177.01	1
352000	1760	23.91	-1.45	22.46	176.2	1

CHANNEL BANDWIDTH: 40MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	24.02	-1.45	22.57	180.72	1
349000	1745	24.28	-1.45	22.83	191.87	1
352000	1760	24.24	-1.45	22.79	190.11	1

CHANNEL BANDWIDTH: 40MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	22.68	-1.45	21.23	132.74	1
349000	1745	22.52	-1.45	21.07	127.94	1
352000	1760	22.42	-1.45	20.97	125.03	1

CHANNEL BANDWIDTH: 40MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	20.77	-1.45	19.32	85.51	1
349000	1745	20.42	-1.45	18.97	78.89	1
352000	1760	20.42	-1.45	18.97	78.89	1

N70

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
339500	1697.5	23.52	-1.45	19.92	98.17	1
340500	1702.5	23.53	-1.45	19.93	98.4	1
341500	1707.5	23.52	-1.45	19.92	98.17	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
339500	1697.5	23.62	-1.45	20.02	100.46	1
340500	1702.5	23.59	-1.45	19.99	99.77	1
341500	1707.5	23.61	-1.45	20.01	100.23	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
339500	1697.5	23.03	-1.45	19.43	87.7	1
340500	1702.5	23.05	-1.45	19.45	88.1	1
341500	1707.5	23.04	-1.45	19.44	87.9	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
339500	1697.5	21.2	-1.45	17.6	57.54	1
340500	1702.5	21.27	-1.45	17.67	58.48	1
341500	1707.5	21.29	-1.45	17.69	58.75	1

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
339500	1697.5	18.98	-1.45	15.38	34.51	1
340500	1702.5	19.07	-1.45	15.47	35.24	1
341500	1707.5	19.11	-1.45	15.51	35.56	1

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340000	1700	23.44	-1.45	19.84	96.38	1
340500	1702.5	23.49	-1.45	19.89	97.5	1
341000	1705	23.42	-1.45	19.82	95.94	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340000	1700	23.51	-1.45	19.91	97.95	1
340500	1702.5	23.58	-1.45	19.98	99.54	1
341000	1705	23.58	-1.45	19.98	99.54	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340000	1700	22.97	-1.45	19.37	86.5	1
340500	1702.5	22.62	-1.45	19.02	79.8	1
341000	1705	22.61	-1.45	19.01	79.62	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340000	1700	21.1	-1.45	17.5	56.23	1
340500	1702.5	21.13	-1.45	17.53	56.62	1
341000	1705	21.12	-1.45	17.52	56.49	1

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340000	1700	19.06	-1.45	15.46	35.16	1
340500	1702.5	19.08	-1.45	15.48	35.32	1
341000	1705	19.09	-1.45	15.49	35.4	1



**BUREAU
VERITAS**

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340500	1702.5	23.66	-1.45	20.06	101.39	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340500	1702.5	23.75	-1.45	20.15	103.51	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340500	1702.5	23.17	-1.45	19.57	90.57	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340500	1702.5	21.28	-1.45	17.68	58.61	1

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
340500	1702.5	19.19	-1.45	15.59	36.22	1

N71

CHANNEL BANDWIDTH: 5MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133100	665.5	23.46	-5.87	15.44	34.99	3
136100	680.5	23.29	-5.87	15.27	33.65	3
139100	695.5	23.52	-5.87	15.5	35.48	3

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133100	665.5	23.33	-5.87	15.31	33.96	3
136100	680.5	23.25	-5.87	15.23	33.34	3
139100	695.5	23.46	-5.87	15.44	34.99	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133100	665.5	23.71	-5.87	15.69	37.07	3
136100	680.5	23.61	-5.87	15.59	36.22	3
139100	695.5	23.51	-5.87	15.49	35.4	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133100	665.5	21.63	-5.87	13.61	22.96	3
136100	680.5	21.79	-5.87	13.77	23.82	3
139100	695.5	22.03	-5.87	14.01	25.18	3

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133100	665.5	19.54	-5.87	11.52	14.19	3
136100	680.5	19.58	-5.87	11.56	14.32	3
139100	695.5	19.91	-5.87	11.89	15.45	3

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133600	668	23.41	-5.87	15.39	34.59	3
136100	680.5	23.39	-5.87	15.37	34.43	3
138600	693	23.5	-5.87	15.48	35.32	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133600	668	23.36	-5.87	15.34	34.2	3
136100	680.5	23.39	-5.87	15.37	34.43	3
138600	693	23.48	-5.87	15.46	35.16	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133600	668	23.48	-5.87	15.46	35.16	3
136100	680.5	23.32	-5.87	15.3	33.88	3
138600	693	23.81	-5.87	15.79	37.93	3

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133600	668	21.98	-5.87	13.96	24.89	3
136100	680.5	23.14	-5.87	15.12	32.51	3
138600	693	21.88	-5.87	13.86	24.32	3

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133600	668	19.88	-5.87	11.86	15.35	3
136100	680.5	19.85	-5.87	11.83	15.24	3
138600	693	19.87	-5.87	11.85	15.31	3

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134100	670.5	23.41	-5.87	15.39	34.59	3
136100	680.5	23.44	-5.87	15.42	34.83	3
138100	690.5	23.59	-5.87	15.57	36.06	3

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134100	670.5	23.43	-5.87	15.41	34.75	3
136100	680.5	23.46	-5.87	15.44	34.99	3
138100	690.5	23.51	-5.87	15.49	35.4	3

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134100	670.5	23.71	-5.87	15.69	37.07	3
136100	680.5	23.87	-5.87	15.85	38.46	3
138100	690.5	23.92	-5.87	15.9	38.9	3

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134100	670.5	21.9	-5.87	13.88	24.43	3
136100	680.5	21.96	-5.87	13.94	24.77	3
138100	690.5	22.02	-5.87	14	25.12	3

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134100	670.5	19.84	-5.87	11.82	15.21	3
136100	680.5	19.89	-5.87	11.87	15.38	3
138100	690.5	19.99	-5.87	11.97	15.74	3



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	23.48	-5.87	15.46	35.16	3
136100	680.5	23.55	-5.87	15.53	35.73	3
137600	688	23.52	-5.87	15.5	35.48	3

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	23.51	-5.87	15.49	35.4	3
136100	680.5	23.5	-5.87	15.48	35.32	3
137600	688	23.54	-5.87	15.52	35.65	3

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	23.49	-5.87	15.47	35.24	3
136100	680.5	23.84	-5.87	15.82	38.19	3
137600	688	23.65	-5.87	15.63	36.56	3

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	22.04	-5.87	14.02	25.23	3
136100	680.5	21.92	-5.87	13.9	24.55	3
137600	688	21.95	-5.87	13.93	24.72	3

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	20.18	-5.87	12.16	16.44	3
136100	680.5	19.91	-5.87	11.89	15.45	3
137600	688	19.91	-5.87	11.89	15.45	3

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N77(Part27Q)

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	25.77	-1.24	24.53	283.79	1
633334	3500.01	25.61	-1.24	24.37	273.53	1
636332	3544.98	25.29	-1.24	24.05	254.1	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	25.74	-1.24	24.5	281.84	1
633334	3500.01	25.64	-1.24	24.4	275.42	1
636332	3544.98	25.3	-1.24	24.06	254.68	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	24.71	-1.24	23.47	222.33	1
633334	3500.01	24.65	-1.24	23.41	219.28	1
636332	3544.98	24.25	-1.24	23.01	199.99	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	23.3	-1.24	22.06	160.69	1
633334	3500.01	23.17	-1.24	21.93	155.96	1
636332	3544.98	22.85	-1.24	21.61	144.88	1

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	21.1	-1.24	19.86	96.83	1
633334	3500.01	20.88	-1.24	19.64	92.04	1
636332	3544.98	20.71	-1.24	19.47	88.51	1

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630500	3457.5	26.01	-1.24	24.77	299.92	1
633334	3500.01	25.58	-1.24	24.34	271.64	1
636166	3542.49	25.57	-1.24	24.33	271.02	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630500	3457.5	26.02	-1.24	24.78	300.61	1
633334	3500.01	25.74	-1.24	24.5	281.84	1
636166	3542.49	25.58	-1.24	24.34	271.64	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630500	3457.5	25.06	-1.24	23.82	240.99	1
633334	3500.01	24.82	-1.24	23.58	228.03	1
636166	3542.49	24.57	-1.24	23.33	215.28	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630500	3457.5	23.4	-1.24	22.16	164.44	1
633334	3500.01	23.15	-1.24	21.91	155.24	1
636166	3542.49	22.97	-1.24	21.73	148.94	1

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630500	3457.5	21.41	-1.24	20.17	103.99	1
633334	3500.01	21.19	-1.24	19.95	98.86	1
636166	3542.49	20.97	-1.24	19.73	93.97	1

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	25.68	-1.24	24.44	277.97	1
633334	3500.01	25.55	-1.24	24.31	269.77	1
636000	3540	25.28	-1.24	24.04	253.51	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	25.73	-1.24	24.49	281.19	1
633334	3500.01	25.53	-1.24	24.29	268.53	1
636000	3540	25.24	-1.24	24	251.19	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	24.74	-1.24	23.5	223.87	1
633334	3500.01	24.5	-1.24	23.26	211.84	1
636000	3540	24.35	-1.24	23.11	204.64	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	23.23	-1.24	21.99	158.12	1
633334	3500.01	22.94	-1.24	21.7	147.91	1
636000	3540	22.65	-1.24	21.41	138.36	1

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	21.24	-1.24	20	100	1
633334	3500.01	20.9	-1.24	19.66	92.47	1
636000	3540	20.65	-1.24	19.41	87.3	1

CHANNEL BANDWIDTH: 30MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	25.92	-1.24	24.68	293.76	1
633334	3500.01	25.73	-1.24	24.49	281.19	1
635666	3534.99	25.57	-1.24	24.33	271.02	1

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	25.93	-1.24	24.69	294.44	1
633334	3500.01	25.82	-1.24	24.58	287.08	1
635666	3534.99	25.62	-1.24	24.38	274.16	1

CHANNEL BANDWIDTH: 30MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	24.78	-1.24	23.54	225.94	1
633334	3500.01	24.66	-1.24	23.42	219.79	1
635666	3534.99	24.57	-1.24	23.33	215.28	1

CHANNEL BANDWIDTH: 30MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	23.25	-1.24	22.01	158.85	1
633334	3500.01	23.37	-1.24	22.13	163.31	1
635666	3534.99	23.07	-1.24	21.83	152.41	1

CHANNEL BANDWIDTH: 30MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	21.14	-1.24	19.9	97.72	1
633334	3500.01	21.43	-1.24	20.19	104.47	1
635666	3534.99	21.12	-1.24	19.88	97.27	1

CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	25.98	-1.24	24.74	297.85	1
633334	3500.01	25.81	-1.24	24.57	286.42	1
635332	3529.98	25.51	-1.24	24.27	267.3	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	26.02	-1.24	24.78	300.61	1
633334	3500.01	25.83	-1.24	24.59	287.74	1
635332	3529.98	25.54	-1.24	24.3	269.15	1

CHANNEL BANDWIDTH: 40MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	24.91	-1.24	23.67	232.81	1
633334	3500.01	24.78	-1.24	23.54	225.94	1
635332	3529.98	24.48	-1.24	23.24	210.86	1

CHANNEL BANDWIDTH: 40MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	23.44	-1.24	22.2	165.96	1
633334	3500.01	23.22	-1.24	21.98	157.76	1
635332	3529.98	23.01	-1.24	21.77	150.31	1

CHANNEL BANDWIDTH: 40MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	21.54	-1.24	20.3	107.15	1
633334	3500.01	21.16	-1.24	19.92	98.17	1
635332	3529.98	20.95	-1.24	19.71	93.54	1

CHANNEL BANDWIDTH: 50MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	25.99	-1.24	24.75	298.54	1
633334	3500.01	25.67	-1.24	24.43	277.33	1
635000	3525	25.59	-1.24	24.35	272.27	1

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	25.5	-1.24	24.26	266.69	1
633334	3500.01	25.39	-1.24	24.15	260.02	1
635000	3525	25.61	-1.24	24.37	273.53	1

CHANNEL BANDWIDTH: 50MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	24.98	-1.24	23.74	236.59	1
633334	3500.01	24.75	-1.24	23.51	224.39	1
635000	3525	24.63	-1.24	23.39	218.27	1

CHANNEL BANDWIDTH: 50MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	23.28	-1.24	22.04	159.96	1
633334	3500.01	23.11	-1.24	21.87	153.82	1
635000	3525	22.88	-1.24	21.64	145.88	1

CHANNEL BANDWIDTH: 50MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	21.33	-1.24	20.09	102.09	1
633334	3500.01	21.1	-1.24	19.86	96.83	1
635000	3525	20.94	-1.24	19.7	93.33	1

CHANNEL BANDWIDTH: 60MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	25.97	-1.24	24.73	297.17	1
633334	3500.01	25.61	-1.24	24.37	273.53	1
634666	3519.99	25.66	-1.24	24.42	276.69	1

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	25.26	-1.24	24.02	252.35	1
633334	3500.01	25.59	-1.24	24.35	272.27	1
634666	3519.99	25.65	-1.24	24.41	276.06	1

CHANNEL BANDWIDTH: 60MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	24.81	-1.24	23.57	227.51	1
633334	3500.01	24.62	-1.24	23.38	217.77	1
634666	3519.99	24.63	-1.24	23.39	218.27	1

CHANNEL BANDWIDTH: 60MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	23.09	-1.24	21.85	153.11	1
633334	3500.01	22.95	-1.24	21.71	148.25	1
634666	3519.99	22.95	-1.24	21.71	148.25	1

CHANNEL BANDWIDTH: 60MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	21.07	-1.24	19.83	96.16	1
633334	3500.01	21	-1.24	19.76	94.62	1
634666	3519.99	21.12	-1.24	19.88	97.27	1

CHANNEL BANDWIDTH: 70MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	25.93	-1.24	24.69	294.44	1
633334	3500.01	25.67	-1.24	24.43	277.33	1
634332	3514.98	25.61	-1.24	24.37	273.53	1

CHANNEL BANDWIDTH: 70MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	25.91	-1.24	24.67	293.09	1
633334	3500.01	25.72	-1.24	24.48	280.54	1
634332	3514.98	25.67	-1.24	24.43	277.33	1

CHANNEL BANDWIDTH: 70MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	24.86	-1.24	23.62	230.14	1
633334	3500.01	24.59	-1.24	23.35	216.27	1
634332	3514.98	24.56	-1.24	23.32	214.78	1

CHANNEL BANDWIDTH: 70MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	23.09	-1.24	21.85	153.11	1
633334	3500.01	23.04	-1.24	21.8	151.36	1
634332	3514.98	22.99	-1.24	21.75	149.62	1

CHANNEL BANDWIDTH: 70MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	21.15	-1.24	19.91	97.95	1
633334	3500.01	21.02	-1.24	19.78	95.06	1
634332	3514.98	20.93	-1.24	19.69	93.11	1

CHANNEL BANDWIDTH: 80MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	25.87	-1.24	24.63	290.4	1
633334	3500.01	25.64	-1.24	24.4	275.42	1
634000	3510	25.43	-1.24	24.19	262.42	1

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	25.74	-1.24	24.5	281.84	1
633334	3500.01	25.65	-1.24	24.41	276.06	1
634000	3510	25.46	-1.24	24.22	264.24	1

CHANNEL BANDWIDTH: 80MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	24.8	-1.24	23.56	226.99	1
633334	3500.01	24.73	-1.24	23.49	223.36	1
634000	3510	24.34	-1.24	23.1	204.17	1

CHANNEL BANDWIDTH: 80MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	23.05	-1.24	21.81	151.71	1
633334	3500.01	22.88	-1.24	21.64	145.88	1
634000	3510	22.9	-1.24	21.66	146.55	1

CHANNEL BANDWIDTH: 80MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	21.1	-1.24	19.86	96.83	1
633334	3500.01	20.98	-1.24	19.74	94.19	1
634000	3510	20.92	-1.24	19.68	92.9	1

CHANNEL BANDWIDTH: 90MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	25.77	-1.24	24.53	283.79	1
633334	3500.01	25.74	-1.24	24.5	281.84	1
633666	3504.99	25.77	-1.24	24.53	283.79	1

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	25.83	-1.24	24.59	287.74	1
633334	3500.01	25.76	-1.24	24.52	283.14	1
633666	3504.99	25.84	-1.24	24.6	288.4	1

CHANNEL BANDWIDTH: 90MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	24.86	-1.24	23.62	230.14	1
633334	3500.01	24.81	-1.24	23.57	227.51	1
633666	3504.99	24.76	-1.24	23.52	224.91	1

CHANNEL BANDWIDTH: 90MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	23.08	-1.24	21.84	152.76	1
633334	3500.01	23.01	-1.24	21.77	150.31	1
633666	3504.99	22.97	-1.24	21.73	148.94	1

CHANNEL BANDWIDTH: 90MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	21.15	-1.24	19.91	97.95	1
633334	3500.01	21.07	-1.24	19.83	96.16	1
633666	3504.99	21.16	-1.24	19.92	98.17	1

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	25.64	-1.24	24.4	275.42	1

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	25.76	-1.24	24.52	283.14	1

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	24.64	-1.24	23.4	218.78	1

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.91	-1.24	21.67	146.89	1

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.92	-1.24	19.68	92.9	1



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF09

N77(Part270)

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647000	3705	24.87	-1.24	23.63	230.67	1
656000	3840	25.01	-1.24	23.77	238.23	1
665000	3975	24.72	-1.24	23.48	222.84	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647000	3705	24.79	-1.24	23.55	226.46	1
656000	3840	24.77	-1.24	23.53	225.42	1
665000	3975	24.71	-1.24	23.47	222.33	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647000	3705	23.78	-1.24	22.54	179.47	1
656000	3840	23.94	-1.24	22.7	186.21	1
665000	3975	23.69	-1.24	22.45	175.79	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647000	3705	22.3	-1.24	21.06	127.64	1
656000	3840	22.35	-1.24	21.11	129.12	1
665000	3975	22.27	-1.24	21.03	126.77	1

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647000	3705	20.12	-1.24	18.88	77.27	1
656000	3840	20.29	-1.24	19.05	80.35	1
665000	3975	20.2	-1.24	18.96	78.7	1

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647168	3707.52	24.89	-1.24	23.65	231.74	1
656000	3840	25.32	-1.24	24.08	255.86	1
664832	3972.48	24.97	-1.24	23.73	236.05	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647168	3707.52	24.92	-1.24	23.68	233.35	1
656000	3840	25.24	-1.24	24	251.19	1
664832	3972.48	24.84	-1.24	23.6	229.09	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647168	3707.52	23.94	-1.24	22.7	186.21	1
656000	3840	24.12	-1.24	22.88	194.09	1
664832	3972.48	23.89	-1.24	22.65	184.08	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647168	3707.52	22.3	-1.24	21.06	127.64	1
656000	3840	22.5	-1.24	21.26	133.66	1
664832	3972.48	22.23	-1.24	20.99	125.6	1

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647168	3707.52	20.27	-1.24	19.03	79.98	1
656000	3840	20.54	-1.24	19.3	85.11	1
664832	3972.48	20.26	-1.24	19.02	79.8	1

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	24.98	-1.24	23.74	236.59	1
656000	3840	25.34	-1.24	24.1	257.04	1
664666	3969.99	25.06	-1.24	23.82	240.99	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	24.95	-1.24	23.71	234.96	1
656000	3840	25.32	-1.24	24.08	255.86	1
664666	3969.99	24.98	-1.24	23.74	236.59	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	23.89	-1.24	22.65	184.08	1
656000	3840	24.18	-1.24	22.94	196.79	1
664666	3969.99	23.98	-1.24	22.74	187.93	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	22.29	-1.24	21.05	127.35	1
656000	3840	22.57	-1.24	21.33	135.83	1
664666	3969.99	22.35	-1.24	21.11	129.12	1

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	20.28	-1.24	19.04	80.17	1
656000	3840	20.53	-1.24	19.29	84.92	1
664666	3969.99	20.34	-1.24	19.1	81.28	1

CHANNEL BANDWIDTH: 30MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647668	3715.02	25.05	-1.24	23.81	240.44	1
656000	3840	25.44	-1.24	24.2	263.03	1
664332	3964.98	24.96	-1.24	23.72	235.5	1

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647668	3715.02	25.04	-1.24	23.8	239.88	1
656000	3840	25.39	-1.24	24.15	260.02	1
664332	3964.98	25.03	-1.24	23.79	239.33	1

CHANNEL BANDWIDTH: 30MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647668	3715.02	24.03	-1.24	22.79	190.11	1
656000	3840	24.39	-1.24	23.15	206.54	1
664332	3964.98	24.06	-1.24	22.82	191.43	1

CHANNEL BANDWIDTH: 30MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647668	3715.02	22.41	-1.24	21.17	130.92	1
656000	3840	22.64	-1.24	21.4	138.04	1
664332	3964.98	22.38	-1.24	21.14	130.02	1

CHANNEL BANDWIDTH: 30MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647668	3715.02	20.35	-1.24	19.11	81.47	1
656000	3840	20.72	-1.24	19.48	88.72	1
664332	3964.98	20.33	-1.24	19.09	81.1	1

CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	25.24	-1.24	24	251.19	1
656000	3840	25.5	-1.24	24.26	266.69	1
664000	3960	25.15	-1.24	23.91	246.04	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	25.24	-1.24	24	251.19	1
656000	3840	24.84	-1.24	23.6	229.09	1
664000	3960	25.18	-1.24	23.94	247.74	1

CHANNEL BANDWIDTH: 40MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	24.24	-1.24	23	199.53	1
656000	3840	24.39	-1.24	23.15	206.54	1
664000	3960	24.08	-1.24	22.84	192.31	1

CHANNEL BANDWIDTH: 40MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	22.49	-1.24	21.25	133.35	1
656000	3840	22.66	-1.24	21.42	138.68	1
664000	3960	22.31	-1.24	21.07	127.94	1

CHANNEL BANDWIDTH: 40MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	20.53	-1.24	19.29	84.92	1
656000	3840	20.75	-1.24	19.51	89.33	1
664000	3960	20.33	-1.24	19.09	81.1	1