

FCC RF TEST REPORT

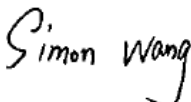
Applicant:	i.safe MOBILE GmbH
Address:	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany

Manufacturer or Supplier:	i.safe MOBILE GmbH
Address:	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany
Product:	Tablet
Brand Name:	i.safe MOBILE
Model Name:	M940A01
Marketing Name:	IS940.1, IS940.M1, IS940.2, IS940.RG
FCC ID:	2AACZ-M940A01
Date of tests:	Jun. 05, 2024 ~ Jul. 17, 2024

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**
☒ **FCC Part 90, Subpart R, S**
☒ **ANSI/TIA/EIA-603-D**
☒ **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: Jul. 17, 2024	 Date: Jul. 17, 2024

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.

TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 MEASUREMENT UNCERTAINTY	8
1.2 TEST SITE AND INSTRUMENTS	9
2 GENERAL INFORMATION	12
2.1 GENERAL DESCRIPTION OF EUT	12
2.2 CONFIGURATION OF SYSTEM UNDER TEST	44
2.3 DESCRIPTION OF SUPPORT UNITS	45
2.4 TEST ITEM AND TEST CONFIGURATION	45
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	68
3 TEST TYPES AND RESULTS	69
3.1 OUTPUT POWER MEASUREMENT	69
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	69
3.1.2 TEST PROCEDURES	70
3.1.3 TEST SETUP	71
3.1.4 TEST RESULTS	72
3.2 FREQUENCY STABILITY MEASUREMENT	138
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	138
3.2.2 TEST PROCEDURE	138
3.2.3 TEST SETUP	138
3.2.4 TEST RESULTS	139
3.3 OCCUPIED BANDWIDTH MEASUREMENT	140
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	140
3.3.2 TEST SETUP	140
3.3.3 TEST PROCEDURES	140
3.3.4 TEST RESULTS	141
3.4 BAND EDGE MEASUREMENT	142
3.4.1 LIMITS OF BAND EDGE MEASUREMENT	142
3.4.2 TEST SETUP	145
3.4.3 TEST PROCEDURES	146
3.4.4 TEST RESULTS	147
3.5 CONDUCTED SPURIOUS EMISSIONS	148
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	148
3.5.2 TEST PROCEDURE	149
3.5.3 TEST SETUP	149
3.5.4 TEST RESULTS	150
3.6 RADIATED EMISSION MEASUREMENT	151
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	151
3.6.2 TEST PROCEDURES	152
3.6.3 DEVIATION FROM TEST STANDARD	152
3.6.4 TEST SETUP	153
3.6.5 TEST RESULTS	155
3.7 PEAK TO AVERAGE RATIO	429
3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	429
3.7.2 TEST SETUP	429
3.7.3 TEST PROCEDURES	429
3.7.4 TEST RESULTS	430



Test Report No.: W7L-P24050018RF11

4 INFORMATION ON THE TESTING LABORATORIES 431

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB. 432



Test Report No.: W7L-P24050018RF11

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24050018RF11	Original release	Jul. 17, 2024

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	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§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	A
§22.913 (a) §27.50(b)(10) §27.50(c)(10) §90.542(a)(7)	Equivalent Radiated Power (5G NR n5,n12,n14,n71)	Compliance	A
§2.1055 §22.355 §24.235 §27.54 §90.213	Frequency Stability	Compliance	A
§2.1049 §90.209	Occupied Bandwidth	Compliance	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)	Band Edge Measurements	Compliance	A



BUREAU
VERITAS

Test Report No.: W7L-P24050018RF11

§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)	Conducted Spurious Emissions	Compliance	A
§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) §90.543(e)(f)	Radiated Spurious Emissions	Compliance	A/B
§27.50(j)(4)	Peak-to-Average Ratio	Compliance	A

NOTE:

1. Max ERP/EIRP is according to Max conducted power calculate for SA.
2. This device supports SRS (sounding reference signal) mode for NR bands. For each SRS mode radiated measurement was performed through FTM mode provided by the customer.



Test Report No.: W7L-P24050018RF11

***Test Lab Information Reference**

Lab A:

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

Accredited Test Lab Cert 3939.01

FCC Site Registration No. : 525120; Designation No. : CN1171;

Lab B:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

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

Lab A:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24
Power Divider	COM-MW	ZPD8-2M0-40G-1942	04223131	Oct.09.23	Oct.08.24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months 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 525120; The Designation No. is CN1171.

Lab B:

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



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Test Report No.: W7L-P24050018RF11

Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,24	Feb.15,26
Signal Generator	R&S	SMB100A	182185	Feb.16,24	Feb.15,26
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.25,24	Feb.24,26
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,24	Feb.24,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,24	Feb.27,26
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,24	Feb.22,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,24	Feb.22,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.26,24	Jun.25,26
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.28,24	Apr.27,25
CABLE	R&S	W12.14	N/A	Apr.28,24	Apr.27,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.28,24	Apr.27,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.28,24	Apr.27,25
Temperature Chamber	votsch	VT4002	58566078100050	May.31,24	May.30,26
Power Divider	COM-MW	ZPD8-2M0-40G-1942	04223129	Nov.05.23	Nov.04.24

NOTE: 1. The calibration interval of the above test instruments is 12 months 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.

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Test Report No.: W7L-P24050018RF11

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	Tablet	
BRAND NAME	i.safe MOBILE	
MODEL NAME	M940A01	
MARKETING NAME	IS940.1, IS940.M1, IS940.2, IS940.RG	
NOMINAL VOLTAGE	5Vdc (adapter or host equipment) 3.7Vdc (Li-ion, battery)	
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	LTE Anchor Band for NR Band n2	LTE Band 5/7/12/13/14/66/71
	LTE Anchor Band for NR Band n5	LTE Band 2/7/48/66
	LTE Anchor Band for NR Band n7	LTE Band 2/5/12/13/66/71
	LTE Anchor Band for NR Band n12	LTE Band 2/7/66
	LTE Anchor Band for NR Band n14	SA ONLY
	LTE Anchor Band for NR Band n25	LTE Band 12/48/66
	LTE Anchor Band for NR Band n30	SA ONLY
	LTE Anchor Band for NR Band n38	LTE Band 2/4/5/12/66/71
	LTE Anchor Band for NR Band n41	LTE Band 2/4/5/12/25/26/66/71
	LTE Anchor Band for NR Band n66	LTE Band 2/5/7/12/13/14/48/71
	LTE Anchor Band for NR Band n71	LTE Band 2/7/66
	LTE Anchor Band for NR Band n77	LTE Band 5/7/12/13/14/41/66
	LTE Anchor Band for NR Band n78	LTE Band 2/4/5/7/12/13/26/38/41/66/71
FREQUENCY	NR Band n2	1852.5MHz ~ 1907.5MHz

RANGE	NR Band n5	826.5MHz ~ 846.5MHz
	NR Band n7	2502.5MHz ~ 2567.5MHz
	NR Band n12	701.5MHz ~ 713.5MHz
	NR Band n14	790.5MHz ~ 795.5MHz
	NR Band n25	1852.5MHz ~ 1912.5MHz
	NR Band n30	2307.5MHz ~ 2312.5MHz
	NR Band n38	2582MHz ~ 2610MHz
	NR Band n41	2506.02MHz ~ 2679.99MHz
	NR Band n66	1712.5MHz ~ 1777.5MHz
	NR Band n71	665.5MHz ~ 695.5MHz
	NR Band n77(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n77(Part27O)	3705 ~ 3975MHz
	NR Band n78(Part27Q)	3455.01MHz ~ 3544.98MHz
EMISSION DESIGNATOR	NR Band n5 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M46G7D DFT-QPSK 4M46G7D DFT-16QAM 4M46W7D DFT-64QAM 4M47W7D DFT-256QAM 4M48W7D
	NR Band n5 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M92G7D DFT-QPSK 8M90G7D DFT-16QAM 8M93W7D DFT-64QAM 8M90W7D DFT-256QAM 8M90W7D
	NR Band n5 Channel Bandwidth: 15MHz	DFT-PI2BPSK 13M4G7D DFT-QPSK 13M4G7D DFT-16QAM 13M4W7D DFT-64QAM 13M4W7D DFT-256QAM 13M4W7D
	NR Band n5 Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M8G7D DFT-QPSK 17M8G7D DFT-16QAM 17M9W7D DFT-64QAM 17M8W7D DFT-256QAM 17M8W7D

EMISSION DESIGNATOR	NR Band n7 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M47G7D DFT-QPSK 4M46G7D DFT-16QAM 4M46W7D DFT-64QAM 4M48W7D DFT-256QAM 4M48W7D
	NR Band n7 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M90G7D DFT-QPSK 8M91G7D DFT-16QAM 8M92W7D DFT-64QAM 8M92W7D DFT-256QAM 8M92W7D
	NR Band n7 Channel Bandwidth: 15MHz	DFT-PI2BPSK 13M4G7D DFT-QPSK 13M4G7D DFT-16QAM 13M4W7D DFT-64QAM 13M4W7D DFT-256QAM 13M4W7D
	NR Band n7 Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M9G7D DFT-QPSK 17M9G7D DFT-16QAM 17M9W7D DFT-64QAM 17M9W7D DFT-256QAM 17M9W7D
	NR Band n7 Channel Bandwidth: 25MHz	DFT-PI2BPSK 22M8G7D DFT-QPSK 22M9G7D DFT-16QAM 22M8W7D DFT-64QAM 22M9W7D DFT-256QAM 22M9W7D
	NR Band n7 Channel Bandwidth: 30MHz	DFT-PI2BPSK 28M6G7D DFT-QPSK 28M6G7D DFT-16QAM 28M6W7D DFT-64QAM 28M6W7D DFT-256QAM 28M6W7D
	NR Band n7 Channel Bandwidth: 40MHz	DFT-PI2BPSK 38M6G7D DFT-QPSK 38M6G7D DFT-16QAM 38M5W7D DFT-64QAM 38M7W7D DFT-256QAM 38M6W7D

EMISSION DESIGNATOR	NR Band n12 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M47G7D DFT-QPSK 4M45G7D DFT-16QAM 4M46W7D DFT-64QAM 4M47W7D DFT-256QAM 4M46W7D
	NR Band n12 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M91G7D DFT-QPSK 8M91G7D DFT-16QAM 8M91W7D DFT-64QAM 8M91W7D DFT-256QAM 8M92W7D
	NR Band n12 Channel Bandwidth: 15MHz	DFT-PI2BPSK 13M4G7D DFT-QPSK 13M4G7D DFT-16QAM 13M4W7D DFT-64QAM 13M4W7D DFT-256QAM 13M4W7D
	NR Band n14 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M46G7D DFT-QPSK 4M46G7D DFT-16QAM 4M45W7D DFT-64QAM 4M48W7D DFT-256QAM 4M47W7D
	NR Band n14 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M91G7D DFT-QPSK 8M90G7D DFT-16QAM 8M94W7D DFT-64QAM 8M90W7D DFT-256QAM 8M90W7D
	NR Band n25 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M47G7D DFT-QPSK 4M45G7D DFT-16QAM 4M46W7D DFT-64QAM 4M47W7D DFT-256QAM 4M47W7D
	NR Band n25 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M91G7D DFT-QPSK 8M91G7D DFT-16QAM 8M94W7D DFT-64QAM 8M91W7D DFT-256QAM 8M91W7D

EMISSION DESIGNATOR	NR Band n25 Channel Bandwidth: 15MHz	DFT-PI2BPSK 13M4G7D DFT-QPSK 13M4G7D DFT-16QAM 13M4W7D DFT-64QAM 13M4W7D DFT-256QAM 13M4W7D
	NR Band n25 Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M8G7D DFT-QPSK 17M9G7D DFT-16QAM 17M9W7D DFT-64QAM 17M9W7D DFT-256QAM 17M9W7D
	NR Band n25 Channel Bandwidth: 25MHz	DFT-PI2BPSK 22M8G7D DFT-QPSK 22M9G7D DFT-16QAM 22M9W7D DFT-64QAM 22M9W7D DFT-256QAM 22M9W7D
	NR Band n25 Channel Bandwidth: 30MHz	DFT-PI2BPSK 28M5G7D DFT-QPSK 28M6G7D DFT-16QAM 28M5W7D DFT-64QAM 28M6W7D DFT-256QAM 28M6W7D
	NR Band n25 Channel Bandwidth: 40MHz	DFT-PI2BPSK 38M5G7D DFT-QPSK 38M6G7D DFT-16QAM 38M4W7D DFT-64QAM 38M5W7D DFT-256QAM 38M5W7D
	NR Band n30 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M48G7D DFT-QPSK 4M46G7D DFT-16QAM 4M47W7D DFT-64QAM 4M48W7D DFT-256QAM 4M48W7D
	NR Band n30 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M93G7D DFT-QPSK 8M93G7D DFT-16QAM 8M92W7D DFT-64QAM 8M92W7D DFT-256QAM 8M92W7D
	NR Band n41 Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M8G7D DFT-QPSK 17M8G7D DFT-16QAM 17M9W7D DFT-64QAM 17M8W7D DFT-256QAM 17M8W7D

EMISSION DESIGNATOR	NR Band n41 Channel Bandwidth: 30MHz	DFT-PI2BPSK 26M8G7D DFT-QPSK 26M7G7D DFT-16QAM 26M7W7D DFT-64QAM 26M7W7D DFT-256QAM 26M8W7D
	NR Band n41 Channel Bandwidth: 40MHz	DFT-PI2BPSK 35M7G7D DFT-QPSK 35M7G7D DFT-16QAM 35M8W7D DFT-64QAM 35M8W7D DFT-256QAM 35M7W7D
	NR Band n41 Channel Bandwidth 50MHz	DFT-PI2BPSK 45M7G7D DFT-QPSK 45M7G7D DFT-16QAM 45M7W7D DFT-64QAM 45M7W7D DFT-256QAM 45M7W7D
	NR Band n41 Channel Bandwidth 60MHz	DFT-PI2BPSK 57M8G7D DFT-QPSK 57M9G7D DFT-16QAM 57M7W7D DFT-64QAM 57M7W7D DFT-256QAM 57M8W7D
	NR Band n41 Channel Bandwidth 80MHz	DFT-PI2BPSK 77M1G7D DFT-QPSK 77M0G7D DFT-16QAM 76M8W7D DFT-64QAM 77M1W7D DFT-256QAM 77M0W7D
	NR Band n41 Channel Bandwidth 90MHz	DFT-PI2BPSK 86M6G7D DFT-QPSK 86M6G7D DFT-16QAM 86M9W7D DFT-64QAM 86M5W7D DFT-256QAM 86M5W7D
	NR Band n41 Channel Bandwidth 100MHz	DFT-PI2BPSK 96M3G7D DFT-QPSK 96M4G7D DFT-16QAM 96M4W7D DFT-64QAM 96M3W7D DFT-256QAM 96M2W7D
	NR Band n66 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M48G7D DFT-QPSK 4M46G7D DFT-16QAM 4M46W7D DFT-64QAM 4M47W7D DFT-256QAM 4M47W7D

EMISSION DESIGNATOR	NR Band n66 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M91G7D DFT-QPSK 8M92G7D DFT-16QAM 8M94W7D DFT-64QAM 8M91W7D DFT-256QAM 8M91W7D
	NR Band n66 Channel Bandwidth: 15MHz	DFT-PI2BPSK 13M4G7D DFT-QPSK 13M4G7D DFT-16QAM 13M4W7D DFT-64QAM 13M4W7D DFT-256QAM 13M4W7D
	NR Band n66 Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M9G7D DFT-QPSK 17M9G7D DFT-16QAM 17M9W7D DFT-64QAM 17M9W7D DFT-256QAM 17M9W7D
	NR Band n66 Channel Bandwidth: 30MHz	DFT-PI2BPSK 28M5G7D DFT-QPSK 28M6G7D DFT-16QAM 28M5W7D DFT-64QAM 28M6W7D DFT-256QAM 28M6W7D
	NR Band n66 Channel Bandwidth: 40MHz	DFT-PI2BPSK 38M5G7D DFT-QPSK 38M6G7D DFT-16QAM 38M4W7D DFT-64QAM 38M6W7D DFT-256QAM 38M5W7D
	NR Band n71 Channel Bandwidth: 5MHz	DFT-PI2BPSK 4M48G7D DFT-QPSK 4M46G7D DFT-16QAM 4M47W7D DFT-64QAM 4M47W7D DFT-256QAM 4M47W7D
	NR Band n71 Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M90G7D DFT-QPSK 8M91G7D DFT-16QAM 8M93W7D DFT-64QAM 8M91W7D DFT-256QAM 8M91W7D
	NR Band n71 Channel Bandwidth: 15MHz	DFT-PI2BPSK 13M4G7D DFT-QPSK 13M4G7D DFT-16QAM 13M4W7D DFT-64QAM 13M4W7D DFT-256QAM 13M4W7D



BUREAU
VERITAS

Test Report No.: W7L-P24050018RF11

	NR Band n71 Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M8G7D DFT-QPSK 17M8G7D DFT-16QAM 17M8W7D DFT-64QAM 17M8W7D DFT-256QAM 17M9W7D
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EMISSION DESIGNATOR	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M58G7D DFT-QPSK 8M59G7D DFT-16QAM 8M57W7D DFT-64QAM 8M57W7D DFT-256QAM 8M56W7D
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M8G7D DFT-QPSK 17M8G7D DFT-16QAM 17M9W7D DFT-64QAM 17M8W7D DFT-256QAM 17M8W7D
	NR Band 77(Part27Q) Channel Bandwidth: 30MHz	DFT-PI2BPSK 26M8G7D DFT-QPSK 26M7G7D DFT-16QAM 26M7W7D DFT-64QAM 26M8W7D DFT-256QAM 26M8W7D
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	DFT-PI2BPSK 35M7G7D DFT-QPSK 35M7G7D DFT-16QAM 35M8W7D DFT-64QAM 35M8W7D DFT-256QAM 35M7W7D
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	DFT-PI2BPSK 45M7G7D DFT-QPSK 45M6G7D DFT-16QAM 45M7W7D DFT-64QAM 45M7W7D DFT-256QAM 45M7W7D
	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	DFT-PI2BPSK 57M8G7D DFT-QPSK 57M9G7D DFT-16QAM 57M7W7D DFT-64QAM 57M8W7D DFT-256QAM 57M8W7D
	NR Band 77(Part27Q) Channel Bandwidth: 70MHz	DFT-PI2BPSK 64M2G7D DFT-QPSK 64M3G7D DFT-16QAM 64M2W7D DFT-64QAM 64M2W7D DFT-256QAM 64M2W7D



**BUREAU
VERITAS**

Test Report No.: W7L-P24050018RF11

EMISSION DESIGNATOR	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	DFT-PI2BPSK 77M1G7D DFT-QPSK 77M1G7D DFT-16QAM 76M9W7D DFT-64QAM 77M2W7D DFT-256QAM 77M1W7D
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	DFT-PI2BPSK 86M7G7D DFT-QPSK 86M6G7D DFT-16QAM 86M9W7D DFT-64QAM 86M5W7D DFT-256QAM 86M6W7D
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	DFT-PI2BPSK 96M3G7D DFT-QPSK 96M6G7D DFT-16QAM 96M4W7D DFT-64QAM 96M3W7D DFT-256QAM 96M3W7D

EMISSION DESIGNATOR	NR Band 77(Part27O) Channel Bandwidth: 10MHz	DFT-PI2BPSK 8M59G7D DFT-QPSK 8M56G7D DFT-16QAM 8M58W7D DFT-64QAM 8M57W7D DFT-256QAM 8M55W7D
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	DFT-PI2BPSK 17M8G7D DFT-QPSK 17M8G7D DFT-16QAM 17M9W7D DFT-64QAM 17M8W7D DFT-256QAM 17M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	DFT-PI2BPSK 26M8G7D DFT-QPSK 26M7G7D DFT-16QAM 26M8W7D DFT-64QAM 26M8W7D DFT-256QAM 26M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	DFT-PI2BPSK 35M7G7D DFT-QPSK 35M8G7D DFT-16QAM 35M8W7D DFT-64QAM 35M8W7D DFT-256QAM 35M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	DFT-PI2BPSK 45M7G7D DFT-QPSK 45M7G7D DFT-16QAM 45M7W7D DFT-64QAM 45M7W7D DFT-256QAM 45M7W7D
	NR Band 77(Part27O) Channel Bandwidth: 60MHz	DFT-PI2BPSK 57M9G7D DFT-QPSK 57M9G7D DFT-16QAM 57M7W7D DFT-64QAM 57M8W7D DFT-256QAM 57M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 70MHz	DFT-PI2BPSK 64M2G7D DFT-QPSK 64M3G7D DFT-16QAM 64M2W7D DFT-64QAM 64M2W7D DFT-256QAM 64M2W7D

EMISSION DESIGNATOR	NR Band 77(Part27O) Channel Bandwidth: 80MHz	DFT-PI2BPSK 77M1G7D DFT-QPSK 77M1G7D DFT-16QAM 76M9W7D DFT-64QAM 77M2W7D DFT-256QAM 77M1W7D
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	DFT-PI2BPSK 86M7G7D DFT-QPSK 86M6G7D DFT-16QAM 86M9W7D DFT-64QAM 86M5W7D DFT-256QAM 86M6W7D
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	DFT-PI2BPSK 96M3G7D DFT-QPSK 96M4G7D DFT-16QAM 96M4W7D DFT-64QAM 96M3W7D DFT-256QAM 96M2W7D

EMISSION DESIGNATOR (UL_MIMO ANT 7)	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	CP-QPSK 8M59G7D CP-16QAM 8M56W7D CP-64QAM 8M57W7D CP-256QAM 8M59W7D
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	CP-QPSK 18M2G7D CP-16QAM 18M3W7D CP-64QAM 18M2W7D CP-256QAM 18M2W7D
	NR Band 77(Part27Q) Channel Bandwidth: 30MHz	CP-QPSK 27M9G7D CP-16QAM 27M8W7D CP-64QAM 27M9W7D CP-256QAM 27M9W7D
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	CP-QPSK 37M9G7D CP-16QAM 37M9W7D CP-64QAM 37M8W7D CP-256QAM 37M9W7D
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	CP-QPSK 47M6G7D CP-16QAM 47M5W7D CP-64QAM 47M5W7D CP-256QAM 47M5W7D

EMISSION DESIGNATOR (UL_MIMO ANT 7)	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	CP-QPSK 57M9G7D CP-16QAM 58M1W7D CP-64QAM 57M9W7D CP-256QAM 57M9W7D
	NR Band 77(Part27Q) Channel Bandwidth: 70MHz	CP-QPSK 67M6G7D CP-16QAM 67M6W7D CP-64QAM 67M6W7D CP-256QAM 67M5W7D
	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	CP-QPSK 77M6G7D CP-16QAM 77M5W7D CP-64QAM 77M5W7D CP-256QAM 77M6W7D
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	CP-QPSK 87M5G7D CP-16QAM 87M4W7D CP-64QAM 87M6W7D CP-256QAM 87M5W7D
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	CP-QPSK 97M3G7D CP-16QAM 97M3W7D CP-64QAM 97M3W7D CP-256QAM 97M3W7D

EMISSION DESIGNATOR (UL_MIMO ANT 4)	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	CP-QPSK 8M59G7D CP-16QAM 8M59W7D CP-64QAM 8M58W7D CP-256QAM 8M58W7D
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	CP-QPSK 18M2G7D CP-16QAM 18M2W7D CP-64QAM 18M2W7D CP-256QAM 18M3W7D
	NR Band 77(Part27Q) Channel Bandwidth: 30MHz	CP-QPSK 27M8G7D CP-16QAM 27M8W7D CP-64QAM 27M9W7D CP-256QAM 27M9W7D
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	CP-QPSK 37M8G7D CP-16QAM 37M8W7D CP-64QAM 37M8W7D CP-256QAM 37M9W7D
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	CP-QPSK 47M4G7D CP-16QAM 47M5W7D CP-64QAM 47M4W7D CP-256QAM 47M5W7D

EMISSION DESIGNATOR (UL_MIMO ANT 4)	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	CP-QPSK	57M8G7D
		CP-16QAM	57M9W7D
		CP-64QAM	58M0W7D
		CP-256QAM	57M9W7D
	NR Band 77(Part27Q) Channel Bandwidth: 70MHz	CP-QPSK	67M5G7D
		CP-16QAM	67M7W7D
		CP-64QAM	67M5W7D
		CP-256QAM	67M7W7D
	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	CP-QPSK	77M6G7D
		CP-16QAM	77M4W7D
		CP-64QAM	77M5W7D
		CP-256QAM	77M5W7D
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	CP-QPSK	87M5G7D
		CP-16QAM	87M3W7D
		CP-64QAM	87M3W7D
		CP-256QAM	87M4W7D
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	CP-QPSK	97M3G7D
		CP-16QAM	97M4W7D
		CP-64QAM	97M5W7D
		CP-256QAM	97M4W7D

EMISSION DESIGNATOR (UL_MIMO ANT 7)	NR Band 77(Part27O) Channel Bandwidth: 10MHz	CP-QPSK 8M59G7D CP-16QAM 8M56W7D CP-64QAM 8M57W7D CP-256QAM 8M59W7D
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	CP-QPSK 18M2G7D CP-16QAM 18M3W7D CP-64QAM 18M2W7D CP-256QAM 18M2
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	CP-QPSK 27M9G7D CP-16QAM 27M8W7D CP-64QAM 27M8W7D CP-256QAM 27M9W7D
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	CP-QPSK 37M8G7D CP-16QAM 37M8W7D CP-64QAM 37M8W7D CP-256QAM 37M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	CP-QPSK 47M4G7D CP-16QAM 47M3W7D CP-64QAM 47M4W7D CP-256QAM 47M5W7D



**BUREAU
VERITAS**

Test Report No.: W7L-P24050018RF11

EMISSION DESIGNATOR (UL_MIMO ANT 7)	NR Band 77(Part27O) Channel Bandwidth: 60MHz	CP-QPSK 57M8G7D CP-16QAM 57M9W7D CP-64QAM 57M8W7D CP-256QAM 57M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 70MHz	CP-QPSK 67M5G7D CP-16QAM 67M5W7D CP-64QAM 67M5W7D CP-256QAM 67M5W7D
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	CP-QPSK 77M5G7D CP-16QAM 77M4W7D CP-64QAM 77M5W7D CP-256QAM 77M6W7D
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	CP-QPSK 87M5G7D CP-16QAM 87M4W7D CP-64QAM 87M6W7D CP-256QAM 87M5W7D
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	CP-QPSK 97M3G7D CP-16QAM 97M2W7D CP-64QAM 97M3W7D CP-256QAM 97M3W7D

EMISSION DESIGNATOR (UL_MIMO ANT 4)	NR Band 77(Part27O) Channel Bandwidth: 10MHz	CP-QPSK 8M61G7D CP-16QAM 8M60W7D CP-64QAM 8M56W7D CP-256QAM 8M57W7D
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	CP-QPSK 18M2G7D CP-16QAM 18M2W7D CP-64QAM 18M2W7D CP-256QAM 18M3W7D
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	CP-QPSK 27M8G7D CP-16QAM 27M8W7D CP-64QAM 27M8W7D CP-256QAM 27M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	CP-QPSK 37M8G7D CP-16QAM 37M8W7D CP-64QAM 37M8W7D CP-256QAM 37M9W7D
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	CP-QPSK 47M4G7D CP-16QAM 47M4W7D CP-64QAM 47M4W7D CP-256QAM 47M5W7D

EMISSION DESIGNATOR (UL_MIMO ANT 4)	NR Band 77(Part27O) Channel Bandwidth: 60MHz	CP-QPSK 57M7G7D CP-16QAM 57M8W7D CP-64QAM 57M9W7D CP-256QAM 57M8W7D
	NR Band 77(Part27O) Channel Bandwidth: 70MHz	CP-QPSK 67M4G7D CP-16QAM 67M6W7D CP-64QAM 67M4W7D CP-256QAM 67M6W7D
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	CP-QPSK 77M6G7D CP-16QAM 77M4W7D CP-64QAM 77M4W7D CP-256QAM 77M4W7D
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	CP-QPSK 87M5G7D CP-16QAM 87M2W7D CP-64QAM 87M2W7D CP-256QAM 87M3W7D
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	CP-QPSK 97M3G7D CP-16QAM 97M2W7D CP-64QAM 97M5W7D CP-256QAM 97M4W7D

EMISSION DESIGNATOR (UL_MIMO ANT 2)	NR Band n41 Channel Bandwidth: 20MHz	CP-QPSK 18M2G7D CP-16QAM 18M2W7D CP-64QAM 18M2W7D CP-256QAM 18M3W7D
	NR Band n41 Channel Bandwidth: 30MHz	CP-QPSK 27M8G7D CP-16QAM 27M8W7D CP-64QAM 27M9W7D CP-256QAM 27M9W7D
	NR Band n41 Channel Bandwidth: 40MHz	CP-QPSK 37M9G7D CP-16QAM 37M7W7D CP-64QAM 37M8W7D CP-256QAM 37M9W7D
	NR Band n41 Channel Bandwidth 50MHz	CP-QPSK 47M5G7D CP-16QAM 47M5W7D CP-64QAM 47M4W7D CP-256QAM 47M5W7D
	NR Band n41 Channel Bandwidth 60MHz	CP-QPSK 57M9G7D CP-16QAM 57M9W7D CP-64QAM 58M0W7D CP-256QAM 58M0W7D
	NR Band n41 Channel Bandwidth 80MHz	CP-QPSK 77M5G7D CP-16QAM 77M4W7D CP-64QAM 77M5W7D CP-256QAM 77M5W7D
	NR Band n41 Channel Bandwidth 90MHz	CP-QPSK 87M4G7D CP-16QAM 87M3W7D CP-64QAM 87M3W7D CP-256QAM 87M4W7D
	NR Band n41 Channel Bandwidth 100MHz	CP-QPSK 97M4G7D CP-16QAM 97M5W7D CP-64QAM 97M5W7D CP-256QAM 97M5W7D

EMISSION DESIGNATOR (UL_MIMO ANT 1)	NR Band n41 Channel Bandwidth: 20MHz	CP-QPSK 18M2G7D CP-16QAM 18M3W7D CP-64QAM 18M2W7D CP-256QAM 18M2W7D
	NR Band n41 Channel Bandwidth: 30MHz	CP-QPSK 27M8G7D CP-16QAM 27M8W7D CP-64QAM 27M9W7D CP-256QAM 27M9W7D
	NR Band n41 Channel Bandwidth: 40MHz	CP-QPSK 37M8G7D CP-16QAM 37M9W7D CP-64QAM 37M8W7D CP-256QAM 38M0W7D
	NR Band n41 Channel Bandwidth 50MHz	CP-QPSK 47M5G7D CP-16QAM 47M4W7D CP-64QAM 47M5W7D CP-256QAM 47M5W7D
	NR Band n41 Channel Bandwidth 60MHz	CP-QPSK 57M8G7D CP-16QAM 58M0W7D CP-64QAM 57M9W7D CP-256QAM 57M8W7D
	NR Band n41 Channel Bandwidth 80MHz	CP-QPSK 77M4G7D CP-16QAM 77M4W7D CP-64QAM 77M4W7D CP-256QAM 77M5W7D
	NR Band n41 Channel Bandwidth 90MHz	CP-QPSK 87M4G7D CP-16QAM 87M3W7D CP-64QAM 87M4W7D CP-256QAM 87M4W7D
	NR Band n41 Channel Bandwidth 100MHz	CP-QPSK 97M3G7D CP-16QAM 97M2W7D CP-64QAM 97M2W7D CP-256QAM 97M2W7D

5G SA MAX. EIRP POWER	NR Band n2 Channel Bandwidth: 5MHz	197.24mW
	NR Band n2 Channel Bandwidth: 10MHz	196.34mW
	NR Band n2 Channel Bandwidth: 15MHz	198.15mW
	NR Band n2 Channel Bandwidth: 20MHz	199.07mW
	NR Band n5 Channel Bandwidth: 5MHz	92.9mW
	NR Band n5 Channel Bandwidth: 10MHz	93.54mW
	NR Band n5 Channel Bandwidth: 15MHz	92.9mW
	NR Band n5 Channel Bandwidth: 20MHz	94.84mW
	NR Band n7 Channel Bandwidth: 5MHz	234.96mW
	NR Band n7 Channel Bandwidth: 10MHz	236.59mW
	NR Band n7 Channel Bandwidth: 15MHz	236.05mW
	NR Band n7 Channel Bandwidth: 20MHz	238.23mW

5G SA MAX. EIRP POWER	NR Band n7 Channel Bandwidth: 25MHz	237.14mW
	NR Band n7 Channel Bandwidth: 30MHz	232.27mW
	NR Band n7 Channel Bandwidth: 40MHz	239.33mW
	NR Band n12 Channel Bandwidth: 5MHz	111.17mW
	NR Band n12 Channel Bandwidth: 10MHz	112.46mW
	NR Band n12 Channel Bandwidth: 15MHz	113.24mW
	NR Band n14 Channel Bandwidth: 5MHz	84.72mW
	NR Band n14 Channel Bandwidth: 10MHz	85.11mW
	NR Band n25 Channel Bandwidth: 5MHz	191.87mW
	NR Band n25 Channel Bandwidth: 10MHz	193.64mW
	NR Band n25 Channel Bandwidth: 15MHz	195.88mW
	NR Band n25 Channel Bandwidth: 20MHz	195.43mW
	NR Band n25 Channel Bandwidth: 25MHz	196.34mW

5G SA MAX. EIRP POWER	NR Band n25 Channel Bandwidth: 30MHz	194.98mW
	NR Band n25 Channel Bandwidth: 40MHz	196.34mW
	NR Band n30 Channel Bandwidth: 5MHz	234.42mW
	NR Band n30 Channel Bandwidth: 10MHz	240.44mW
	NR Band n38 Channel Bandwidth: 20MHz	214.78mW
	NR Band n38 Channel Bandwidth: 30MHz	213.3mW
	NR Band n38 Channel Bandwidth: 40MHz	220.8mW
	NR Band n41 Channel Bandwidth: 20MHz	239.33mW
	NR Band n41 Channel Bandwidth: 30MHz	236.59mW
	NR Band n41 Channel Bandwidth: 40MHz	236.59mW
	NR Band n41 Channel Bandwidth: 50MHz	237.68mW
	NR Band n41 Channel Bandwidth: 60MHz	236.59mW

5G SA MAX. EIRP POWER	NR Band n41 Channel Bandwidth: 80MHz	240.44mW
	NR Band n41 Channel Bandwidth: 90MHz	240.44mW
	NR Band n41 Channel Bandwidth: 100MHz	241.55mW
	NR Band n66 Channel Bandwidth: 5MHz	231.21mW
	NR Band n66 Channel Bandwidth: 10MHz	235.5mW
	NR Band n66 Channel Bandwidth: 15MHz	235.5mW
	NR Band n66 Channel Bandwidth: 20MHz	234.42mW
	NR Band n66 Channel Bandwidth: 30MHz	232.81mW
	NR Band n66 Channel Bandwidth: 40MHz	236.05mW
	NR Band n71 Channel Bandwidth: 5MHz	88.51mW
	NR Band n71 Channel Bandwidth: 10MHz	87.5mW
	NR Band n71 Channel Bandwidth: 15MHz	87.7mW
	NR Band n71 Channel Bandwidth: 20MHz	88.72mW

5G SA MAX. EIRP POWER	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	157.76mW
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	156.68mW
	NR Band 77(Part27Q) Channel Bandwidth: 30MHz	158.85mW
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	158.49mW
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	157.76mW
	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	156.31mW
	NR Band 77(Part27Q) Channel Bandwidth: 70MHz	156.31mW
	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	158.12mW
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	158.12mW
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	158.85mW
	NR Band 77(Part27O) Channel Bandwidth: 10MHz	162.93mW
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	160.69mW
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	161.81mW
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	162.55mW
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	161.06mW
	NR Band 77(Part27O) Channel Bandwidth: 60MHz	161.06mW

5G SA MAX. EIRP POWER	NR Band 77(Part27O) Channel Bandwidth: 70MHz	162.18mW
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	161.06mW
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	161.44mW
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	162.93mW
	NR Band 78(Part27Q) Channel Bandwidth: 10MHz	187.93mW
	NR Band 78(Part27Q) Channel Bandwidth: 20MHz	187.07mW
	NR Band 78(Part27Q) Channel Bandwidth: 30MHz	188.8mW
	NR Band 78(Part27Q) Channel Bandwidth: 40MHz	188.8mW
	NR Band 78(Part27Q) Channel Bandwidth: 50MHz	187.93mW
	NR Band 78(Part27Q) Channel Bandwidth: 60MHz	187.07mW
	NR Band 78(Part27Q) Channel Bandwidth: 70MHz	186.21mW
	NR Band 78(Part27Q) Channel Bandwidth: 80MHz	188.36mW
	NR Band 78(Part27Q) Channel Bandwidth: 90MHz	188.8mW
	NR Band 78(Part27Q) Channel Bandwidth: 100MHz	188.8mW

5G MIMO MAX. EIRP POWER	NR Band 41 Channel Bandwidth: 20MHz	468.81mW
	NR Band 41 Channel Bandwidth: 30MHz	496.59mW
	NR Band 41 Channel Bandwidth: 40MHz	472.06mW
	NR Band 41 Channel Bandwidth: 50MHz	475.34mW
	NR Band 41 Channel Bandwidth: 60MHz	489.78mW
	NR Band 41 Channel Bandwidth: 80MHz	486.41mW
	NR Band 41 Channel Bandwidth: 90MHz	488.65mW
	NR Band 41 Channel Bandwidth: 100MHz	508.16mW

5G MIMO MAX. EIRP POWER	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	313.33mW
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	311.17mW
	NR Band 77(Part27Q) Channel Bandwidth: 30MHz	311.89mW
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	313.33mW
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	311.89mW
	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	313.33mW
	NR Band 77(Part27Q) Channel Bandwidth: 70MHz	307.61mW
	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	312.61mW
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	315.5mW
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	316.23mW
	NR Band 77(Part27O) Channel Bandwidth: 10MHz	331.13mW
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	326.59mW
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	328.85mW
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	331.13mW
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	330.37mW
	NR Band 77(Part27O) Channel Bandwidth: 60MHz	323.59mW

5G MIMO MAX. EIRP POWER	NR Band 77(Part27O) Channel Bandwidth: 70MHz	323.59mW
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	324.34mW
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	327.34mW
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	333.43mW
	NR Band 78(Part27Q) Channel Bandwidth: 10MHz	274.16mW
	NR Band 78(Part27Q) Channel Bandwidth: 20MHz	277.33mW
	NR Band 78(Part27Q) Channel Bandwidth: 30MHz	274.79mW
	NR Band 78(Part27Q) Channel Bandwidth: 40MHz	276.06mW
	NR Band 78(Part27Q) Channel Bandwidth: 50MHz	274.79mW
	NR Band 78(Part27Q) Channel Bandwidth: 60MHz	274.16mW
	NR Band 78(Part27Q) Channel Bandwidth: 70MHz	273.53mW
	NR Band 78(Part27Q) Channel Bandwidth: 80MHz	274.16mW
	NR Band 78(Part27Q) Channel Bandwidth: 90MHz	279.25mW
	NR Band 78(Part27Q) Channel Bandwidth: 100MHz	280.54mW

ANTENNA GAIN	ANT 1: NR N2/25 : -0.1dbi NR N66: 0.6dbi NR N7/41: 0.7dbi NR N30: 1.2dbi NR N38: 0.3dbi ANT 2: NR N5: -1.3dbi NR N12: -0.3dbi NR N14: -1.5dbi NR N41: 1.8dbi NR N71: -1.5dbi ANT 4: NR N77: 0.39dbi NR N78: -1.4dbi ANT 7: NR N77: -0.9dbi NR N78: -0.2dbi
ANTENNA TYPE	PIFA Antenna
HW Version	V05
SW VERSION	IS940_ROW_00.00_2_20240605
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: with shielded cable, w/o ferrite core, 1.0 meter
EXTREME TEMPERATURE	-10 ~55°C
EXTREME VOLTAGE	3.6V - 4.2V

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. EUT Function:

MODULATION MODE		TX FUNCTION
5G NR	N2/5/7/12/14/25/30/38/66	1TX
	N41/77/78(MIMO)	2TX

3. For UL_MIMO Mode, according to the KDB 662911 D01, if antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by the following formula:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

Where

Each antenna is driven by no more than one spatial stream.

N_{SS} = the number of independent spatial streams of data.

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

So the Gain of N41/77/78(MIMO) can be calculated as below:

NR Band	G _{ANT} (dBi)		Directional gain(dBi)
	ANT Gain 1	ANT Gain 2	
41	0.7	1.8	4.28
77	0.39	-0.9	2.78
78	-1.4	-0.2	2.23

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the test report.

5. For the SRS mode(2T4R) of N41/77/78, all the combinations have been tested, only the worst data has been reported.

6. For the ENDC combinations of each NR band, all the combinations have been tested, only the combination with worst RSE data has been reported in the report.

7. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

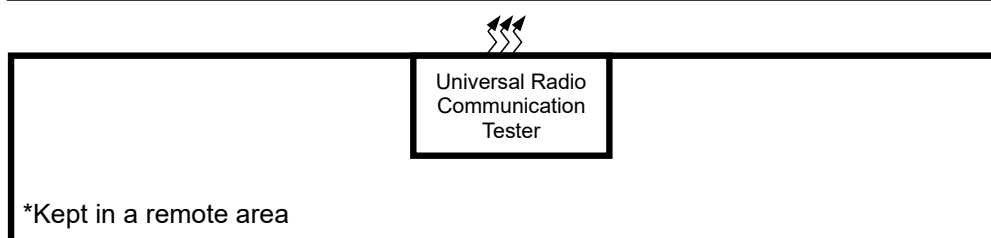
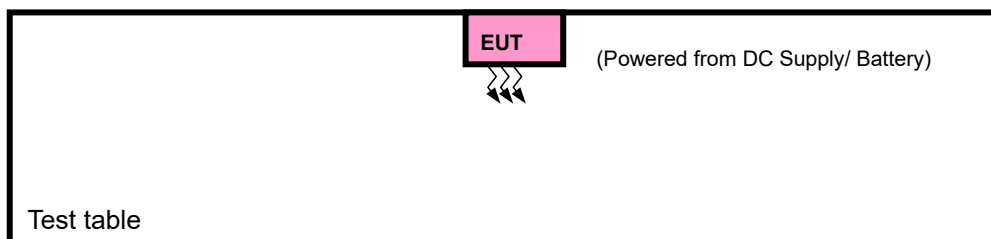
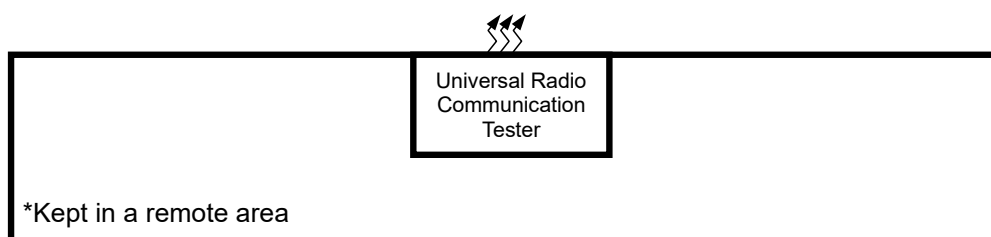
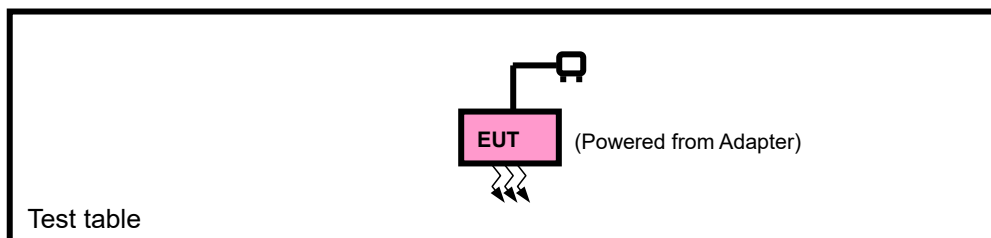
8. MIMO and SISO mode corresponding to bands 3450-3550MHz and 3700-3980MHz completely cover the two bands of N77 and N78, and the data is only written down the frequency band information according to the actual measurement

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter	N/A	SHENZHEN SHI YINGYUAN POWER SUPPLY TECHNOLOGY CO., LTD.	ICP12-050-2000B	I/P: 100-240Vac, 0.5A, O/P: 5Vdc, 2A
Battery	N/A	BMZ Company Limited	MBP940AA01	Capacity: 3.7Vdc, 8160mAh
USB Cable	N/A	Winpower Technology Co., LTD	PROTECTOR 2.0	Signal Line, 1.0meter

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	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

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
B	EUT + DC Supply with 5G NR link

5G NR n2 MODE

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	QPSK	1RB/ 0RB Offset
		371000 to 381000	371000 to 381000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 380500	371500 to 380500	Low, Middle, High	15MHz	QPSK	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 conducted test data and RSE test data please refer to SA n25.

5G NR n5 MODE

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	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	165300 to 169300	165300 to 169300	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		165800 to 168800	165800 to 168800	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166300 to 168300	166300 to 168300	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166800 to 167800	166800 to 167800	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	165300 to 169300	165300 to 169300	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full

				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_Full
		165800 to 168800	165800 to 168800	Low	10MHz	QPSK	1RB/ 0RB Offset
				High	10MHz	QPSK	1RB/ 51RB Offset
		166800 to 167800	166800 to 167800				Outer_Full
				Low	20MHz	QPSK	1RB/ 0RB Offset
				High	20MHz	QPSK	1RB/ 105RB Offset
							Outer_Full
A	CONDUCTED EMISSION	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	165300 to 169300	165300 to 169300	Middle	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Middle,	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Low, Middle, High	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_n5.

5G NR n7 MODE

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	QPSK	1RB/ 0RB Offset
		501000 to 513000	501000 to 513000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Low, Middle, High	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	Low, Middle, High	25MHz	QPSK	1RB/ 0RB Offset
		503000 to 511000	503000 to 511000	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		503500 to 510500	503500 to 510500	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	500500 to 513500	500500 to 513500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		501000 to 513000	501000 to 513000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		501500 to 512500	501500 to 512500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		502000 to 512000	502000 to 512000	Middle	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		502500 to 511500	502500 to 511500	Middle	25MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		503000 to 511000	503000 to 511000	Middle	30MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		503500 to 510500	503500 to 510500	Middle	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	500500 to 513500	500500 to 513500	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		500500 to 513500	500500 to 513500	High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_ Full
		502000 to 512000	502000 to 512000	Low	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		502000 to 512000	502000 to 512000	High	20MHz	QPSK	1RB/ 105RB Offset
							Outer_ Full
		503500 to 510500	503500 to 510500	Low	40MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full



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VERITAS**

Test Report No.: W7L-P24050018RF11

				High	40MHz	QPSK	1RB/ 215RB Offset
							Outer_Full
A	CONDUCTED EMISSION	500500 to 513500	500500 to 513500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		503500 to 510500	503500 to 510500	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	500500 to 513500	500500 to 513500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		501000 to 513000	501000 to 513000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Middle	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
		503500 to 510500	503500 to 510500	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

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	QPSK	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	140300 to 142700	140300 to 142700	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		140800 to 142200	140800 to 142200	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		141300 to 141700	141300 to 141700	Middle	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	140300 to 142700	140300 to 142700	Low	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 24RB Offset
							Outer_ Full
		140800 to 142200	140800 to 142200	Low	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 51RB Offset
							Outer_ Full
		141300 to 141700	141300 to 141700	Low	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 78RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	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



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VERITAS

Test Report No.: W7L-P24050018RF11

		141300 to 141700	141300 to 141700	Middle	15MHz	QPSK	1RB/ 0RB Offset
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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 n14 MODE

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	QPSK	1RB/ 0RB Offset
		158600	158600	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	158600	158600	Middle	10MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	158100 to 159100	158100 to 159100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		158600	158600	Middle	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	158100 to 159100	158100 to 159100	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		158600	158600	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	158100 to 159100	158100 to 159100	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_ Full
		158600	158600	Middle	10MHz	QPSK	1RB/ 0RB Offset
				Middle	10MHz	QPSK	1RB/ 78RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	158100 to 159100	158100 to 159100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		158600	158600	Middle	10MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	158100 to 159100	158100 to 159100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		158600	158600	Middle	10MHz	QPSK	1RB/ 0RB Offset

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

5G NR n25 MODE

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	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		372500 to 380500	372500 to 380500	Low, Middle, High	25MHz	QPSK	1RB/ 0RB Offset
		373000 to 380000	373000 to 380000	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	372000 to 381000	372000 to 381000	Low, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	370500 to 382500	370500 to 382500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371000 to 382000	371000 to 382000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371500 to 381500	371500 to 381500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		372000 to 381000	372000 to 381000	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		372500 to 380500	372500 to 380500	Low, Middle, High	25MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		373000 to 380000	373000 to 380000	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	370500 to 382500	370500 to 382500	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
		372000 to 381000	372000 to 381000	Low	20MHz	QPSK	1RB/ 24 RB Offset
				High	20MHz	QPSK	Outer_ Full
		372000 to 381000	372000 to 381000	Low	20MHz	QPSK	1RB/ 0RB Offset
				High	20MHz	QPSK	Outer_ Full
		374000 to 379000	374000 to 379000	Low	40MHz	QPSK	1RB/ 105 RB Offset
				High	40MHz	QPSK	Outer_ Full



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Test Report No.: W7L-P24050018RF11

A	CONDUCTED EMISSION	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	370500 to 382500	370500 to 382500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Middle	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	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 n30 MODE

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	QPSK	1RB/ 0RB Offset
		462000	462000	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	461500 to 462500	461500 to 462500	Low, Middle, High	5MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	461500 to 462500	461500 to 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset Outer_ Full
A	OCCUPIED BANDWIDTH	461500 to 462500	461500 to 462500	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		462000	462000	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	461500 to 462500	461500 to 462500	Low	5MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	5MHz	QPSK	1RB/ 24RB Offset Outer_ Full
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset
				Middle	10MHz	QPSK	1RB/ 78RB Offset Outer_ Full
		461500 to 462500	461500 to 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
				Middle	10MHz	QPSK	1RB/ 0RB Offset
A	CONDUCTED EMISSION	461500 to 462500	461500 to 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	461500 to 462500	461500 to 462500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	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_n30.

5G NR n38 MODE

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	516504 to 521496	516504 to 521496	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		517002 to 520998	517002 to 520998	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		518004 to 519996	518004 to 519996	Low, Middle, High	40MHz	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 n38.

3. SA n38 are covered by SA n41, Because it is a subset of SA n41 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to SA n41.

5G NR n41 MODE

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	QPSK,	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		505202 to 531000	505202 to 531000	Low, Middle, High	70MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	501204 to 535998	501204 to 535998	Middle	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		502200 to 534996	502200 to 534996	Middle	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		503202 to 534000	503202 to 534000	Middle	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		504200 to 532998	504200 to 532998	Middle	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full

		505200 to 531996	505200 to 531996	Middle	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		507204 to 529998	507204 to 529998	Middle	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		508200 to 528996	508200 to 528996	Middle	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		509202 to 528000	509202 to 528000	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	501204 to 535998	501204 to 535998	Low	20MHz	QPSK	1RB/ 0RB Offset
				High	20MHz	QPSK	Outer_ Full
							1RB/ 50RB Offset
		505200 to 531996	505200 to 531996	Low	60MHz	QPSK	1RB/ 0RB Offset
				High	60MHz	QPSK	Outer_ Full
							1RB/ 161RB Offset
		509202 to 528000	509202 to 528000	Low	100MHz	QPSK	1RB/ 0RB Offset
				High	100MHz	QPSK	Outer_ Full
							1RB/ 272RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	501204 to 535998	501204 to 535998	Middle	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



BUREAU
VERITAS

Test Report No.: W7L-P24050018RF11

		504200 to 532998	504200 to 532998	Middle	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Middle	60MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	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

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	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	344000 to 354000	344000 to 354000	Low, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	342500 to 355500	342500 to 355500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		343000 to 355000	343000 to 355000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		343500 to 354500	343500 to 354500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		344000 to 354000	344000 to 354000	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		345000 to 353000	345000 to 353000	Middle	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		346000 to 352000	346000 to 352000	Middle	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	502008 to 535998	502008 to 535998	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
		344000 to 354000	344000 to 354000	Low	20MHz	QPSK	1RB/ 24RB Offset
				High	20MHz	QPSK	Outer_ Full
		346000 to 352000	346000 to 352000	Low	40MHz	QPSK	1RB/ 0RB Offset
				High	40MHz	QPSK	Outer_ Full
				Low	40MHz	QPSK	1RB/ 105RB Offset
				High	40MHz	QPSK	Outer_ Full
A	CONDUCTED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset

		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	342500 to 355500	342500 to 355500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Middle	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	Low, Middle, High	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 n71 MODE

EUT CONFIGURE MODE	TESWT 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	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	134100 to 138100	134600 to 137600	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	134100 to 138100	134600 to 137600	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	133100 to 139100	133100 to 139100	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		133600 to 138600	133600 to 138600	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		134100 to 138100	134100 to 138100	Middle	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		134600 to 137600	134600 to 137600	Middle	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	133100 to 139100	133100 to 139100	Low	5MHz	QPSK	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ 0RB Offset
							1RB/ 24RB Offset

		133600 to 138600	133600 to 138600	Low	10MHz	QPSK	Outer_Full
							1RB/ 0RB Offset
							1RB/ 51RB Offset
				High	10MHz	QPSK	Outer_Full
							1RB/ 0RB Offset
							1RB/ 51RB Offset
		134600 to 137600	134600 to 137600	Low	20MHz	QPSK	Outer_Full
							1RB/ 0RB Offset
							1RB/ 78RB Offset
				High	20MHz	QPSK	Outer_Full
							1RB/ 0RB Offset
							1RB/ 78RB Offset
A	CONDUCTED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	QPSK	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

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	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		632334 to 634332	632334 to 634332	Low, Middle, High	70MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		632334 to 634332	632334 to 634332	Low, Middle, High	70MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		633334	633334	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	630334 to 636332	630334 to 636332	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 50RB Offset
							Outer_ Full

		631668 to 634998	631668 to 634998	Low	50MHz	QPSK	1RB/ 0RB Offset
				High	50MHz	QPSK	Outer Full
		650000 to 662000	650000 to 662000	Mid	100MHz	QPSK	1RB/ 161RB Offset
							Outer Full
							1RB/ 0RB Offset
							1RB/ 272RB Offset
A	CONDUCTED EMISSION	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	Outer Full
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Middle	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Middle	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Middle	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	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 EIRP calculate presented in the report from worst SA n77(Part27Q).

5G NR n77(Part270) MODE

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	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		649000 to 663000	649000 to 663000	Low, Middle, High	70MHz	QPSK	632334 to 634332
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	QPSK	649668 to 662332
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	647000 to 665000	647000 to 665000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647334 to 664666	647334 to 664666	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647670 to 664332	647670 to 664332	Middle	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648000 to 664000	648000 to 664000	Middle	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648336 to 663666	648336 to 663666	Middle	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648668 to 663332	648668 to 663332	Middle	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		649000 to 663000	649000 to 663000	Middle	70MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		649334 to 662666	649334 to 662666	Middle	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		649668 to 662332	649668 to 662332	Middle	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		650000 to 662000	650000 to 662000	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	647000 to 665000	647000 to 665000	Low	10MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	10MHz	QPSK	1RB/ 50RB Offset Outer_ Full
		648336 to 663666	648336 to 663666	Low	50MHz	QPSK	1RB/ 0RB Offset

				High	50MHz	QPSK	Outer_Full 1RB/ 161RB Offset
							Outer_Full
		650000 to 662000	650000 to 662000	Low	100MHz	QPSK	1RB/ 0RB Offset
							Outer_Full
				High	100MHz	QPSK	1RB/ 272RB Offset
							Outer_Full
A	CONDUCTED EMISSION	647000 to 665000	647000 to 665000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	647000 to 665000	647000 to 665000	Middle	10MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Middle	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Middle	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Middle	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Middle	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Middle	60MHz	QPSK	1RB/ 0RB Offset
		649000 to 663000	649000 to 663000	Middle	70MHz	QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Middle	80MHz	QPSK	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	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 27O).

5G NR Band n78(Part27Q)

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	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		632334 to 634332	632334 to 634332	Low, Middle, High	70MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	QPSK	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 is a subset of SA n77(Part27Q) with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to SA n77(Part27Q).

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.6V/3.7V/4.2V By DC Supply	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC5V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5V By Adapter	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	DC5V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC5V By Adapter	James Fu



Test Report No.: W7L-P24050018RF11

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

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)

47 CFR 90.542(a)(7)

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

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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

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);

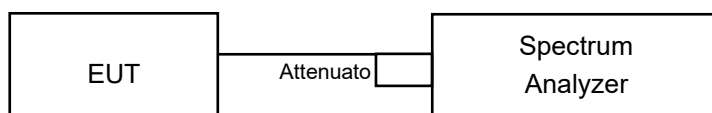
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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.

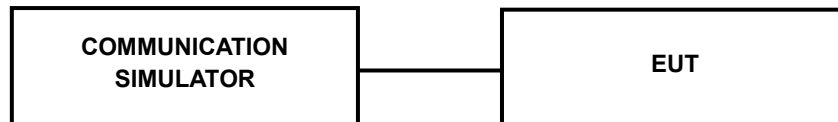
CONDUCTED POWER MEASUREMENT:

- 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 $\geq 3 \times \text{RBW}$
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

CONDUCTED OUTPUT POWER (dBm)

N2

n2 (SCS 15 kHz) (Ant1)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		372000	376000	380000
		Frequency (MHz)		1860	1880	1900
20M	DFT-s-OFDM Pi/2 BPSK	1	1	22.91	22.95	22.87
		1	53	22.88	22.91	22.82
		1	104	22.77	22.86	22.76
		50	0	22.45	22.50	22.38
		50	28	22.98	23.06	22.95
		50	56	22.48	22.51	22.43
		100	0	22.44	22.54	22.38
	DFT-s-OFDM QPSK	1	1	23.05	23.09	22.98
		1	53	23.00	23.06	22.92
		1	104	22.95	22.96	22.85
		50	0	21.98	22.02	21.94
		50	28	23.01	23.08	22.94
		50	56	21.96	22.01	21.87
		100	0	22.00	22.04	21.94
	DFT-s-OFDM 16QAM	1	1	21.92	21.97	21.91
	DFT-s-OFDM 64QAM	1	1	20.51	20.56	20.48
	DFT-s-OFDM 256QAM	1	1	18.55	18.60	18.48
BW	MCS Index	Channel		371500	376000	380500
		Frequency (MHz)		1857.5	1880	1902.5
15M	DFT-s-OFDM QPSK	1	1	22.97	23.07	22.91
BW	MCS Index	Channel		371000	376000	381000
		Frequency (MHz)		1855	1880	1905



**BUREAU
VERITAS**

Test Report No.: W7L-P24050018RF11

10M	DFT-s-OFDM QPSK	1	1	23.03	23.00	22.93
BW	MCS Index	Channel		370500	376000	381500
		Frequency (MHz)		1852.5	1880	1907.5
5M	DFT-s-OFDM QPSK	1	1	22.96	23.05	22.91

N5

n5 (SCS 15 kHz) (Ant2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		166800	167300	167800
		Frequency (MHz)		834	836.5	839
20M	DFT-s-OFDM Pi/2 BPSK	1	1	23.09	23.12	23.03
		1	53	23.09	23.12	23.01
		1	104	22.92	22.93	22.97
		50	0	22.65	22.66	22.65
		50	28	23.10	23.12	23.13
		50	56	22.51	22.52	22.56
		100	0	22.64	22.66	22.53
	DFT-s-OFDM QPSK	1	1	23.17	23.22	23.14
		1	53	22.96	23.06	22.95
		1	104	22.99	23.04	22.98
		50	0	22.11	22.16	22.05
		50	28	23.08	23.13	23.03
		50	56	21.89	21.98	21.87
		100	0	22.10	22.15	22.07
	DFT-s-OFDM 16QAM	1	1	21.80	21.91	21.70
	DFT-s-OFDM 64QAM	1	1	20.40	20.39	20.29
	DFT-s-OFDM 256QAM	1	1	18.57	18.66	18.54
BW	MCS Index	Channel		166300	167300	168300
		Frequency (MHz)		831.5	836.5	841.5
15M	DFT-s-OFDM QPSK	1	1	23.03	23.13	23.00

BW	MCS Index	Channel		165800	167300	168800
		Frequency (MHz)		829	836.5	844
10M	DFT-s-OFDM QPSK	1	1	23.16	23.12	23.06
BW	MCS Index	Channel		165300	167300	169300
		Frequency (MHz)		826.5	836.5	846.5
5M	DFT-s-OFDM QPSK	1	1	23.03	23.10	23.13

N7

n7 (SCS 15 kHz) (Ant1)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		503500	507000	510500
		Frequency (MHz)		2517.5	2535	2552.5
40M	DFT-s-OFDM Pi/2 BPSK	1	1	23.05	22.92	22.94
		1	107	23.03	22.87	22.89
		1	214	22.98	22.80	22.82
		108	0	22.52	22.29	22.35
		108	54	22.88	22.86	22.81
		108	108	22.59	22.53	22.51
		216	0	22.57	22.31	22.35
	DFT-s-OFDM QPSK	1	1	23.09	23.00	23.08
		1	107	23.06	22.94	23.01
		1	214	23.05	22.88	23.02
		108	0	22.12	21.93	22.09
		108	54	23.04	22.92	22.87
		108	108	22.03	21.97	21.98
		216	0	22.03	21.97	21.98
	DFT-s-OFDM 16QAM	1	1	21.76	21.71	21.66
	DFT-s-OFDM 64QAM	1	1	20.37	20.32	20.29
	DFT-s-OFDM 256QAM	1	1	18.67	18.49	18.60
BW	MCS	Channel		503000	507000	511000



**BUREAU
VERITAS**

Test Report No.: W7L-P24050018RF11

	Index	Frequency (MHz)		2515	2535	2555
30M	DFT-s-OFDM QPSK	1	1	22.96	22.94	22.94
BW	MCS Index	Channel		502500	507000	511500
		Frequency (MHz)		2512.5	2535	2557.5
25M	DFT-s-OFDM QPSK	1	1	23.05	22.92	23.01
BW	MCS Index	Channel		502000	507000	512000
		Frequency (MHz)		2510	2535	2560
20M	DFT-s-OFDM QPSK	1	1	22.98	22.88	23.07
BW	MCS Index	Channel		501500	507000	512500
		Frequency (MHz)		2507.5	2535	2562.5
15M	DFT-s-OFDM QPSK	1	1	23.03	22.97	22.97
BW	MCS Index	Channel		501000	507000	513000
		Frequency (MHz)		2505	2535	2565
10M	DFT-s-OFDM QPSK	1	1	22.97	22.91	23.04
BW	MCS Index	Channel		500500	507000	513500
		Frequency (MHz)		2502.5	2535	2567.5
5M	DFT-s-OFDM QPSK	1	1	23.01	22.90	23.00

N12

n12 (SCS 15 kHz) (Ant2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		141300	141500	141700
		Frequency (MHz)		706.5	707.5	708.5
15M	DFT-s-OFDM Pi/2 BPSK	1	1	22.89	22.80	22.78
		1	38	22.94	22.89	22.85
		1	77	22.92	22.82	22.79
		36	0	22.36	22.27	22.23
		36	22	22.92	22.85	22.79
		36	43	22.30	22.28	22.23
		75	0	22.39	22.32	22.24
	DFT-s-OFDM QPSK	1	1	22.99	22.91	22.91
		1	38	22.81	22.73	22.70
		1	77	22.86	22.79	22.76
		36	0	21.85	21.80	21.73
		36	22	22.88	22.82	22.77
		36	43	21.79	21.74	21.69
		75	0	21.96	21.87	21.83
	DFT-s-OFDM 16QAM	1	1	22.11	22.01	21.97
	DFT-s-OFDM 64QAM	1	1	20.39	20.28	20.28
	DFT-s-OFDM 256QAM	1	1	18.65	18.55	18.54
BW	MCS Index	Channel		140800	141500	142200
		Frequency (MHz)		704	707.5	711
10M	DFT-s-OFDM QPSK	1	1	22.96	22.87	22.83
BW	MCS Index	Channel		140300	141500	142700
		Frequency (MHz)		701.5	707.5	713.5
5M	DFT-s-OFDM QPSK	1	1	22.91	22.89	22.81

N14

n14 (SCS 15 kHz) (Ant2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel			158600	
		Frequency (MHz)			793	
10M	DFT-s-OFDM Pi/2 BPSK	1	1		22.92	
		1	25		22.82	
		1	50		22.92	
		25	0		22.45	
		25	14		22.95	
		25	27		22.28	
		50	0		22.50	
	DFT-s-OFDM QPSK	1	1		22.95	
		1	25		22.93	
		1	50		22.93	
		25	0		22.03	
		25	14		22.90	
		25	27		21.80	
		50	0		21.91	
	DFT-s-OFDM 16QAM	1	1		22.18	
	DFT-s-OFDM 64QAM	1	1		20.71	
	DFT-s-OFDM 256QAM	1	1		18.37	
BW	MCS Index	Channel		158100	158600	159100
		Frequency (MHz)		790.5	793	795.5
5M	DFT-s-OFDM QPSK	1	1	22.93	22.85	22.91

N25

n25 (SCS 15 kHz) (Ant1)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		374000	376500	379000
		Frequency (MHz)		1870	1882.5	1895
40M	DFT-s-OFDM Pi/2 BPSK	1	1	22.70	22.75	22.82
		1	107	22.84	22.88	22.94
		1	214	22.76	22.77	22.82
		108	0	22.33	22.40	22.40
		108	54	22.76	22.79	22.88
		108	108	22.41	22.45	22.49
		216	0	22.29	22.39	22.39
	DFT-s-OFDM QPSK	1	1	22.91	22.97	23.03
		1	107	22.80	22.85	22.87
		1	214	22.85	22.94	22.95
		108	0	21.91	21.99	22.02
		108	54	22.86	22.87	22.93
		108	108	21.93	22.03	22.07
		216	0	21.92	21.99	22.00
	DFT-s-OFDM 16QAM	1	1	22.80	22.85	22.91
	DFT-s-OFDM 64QAM	1	1	20.42	20.47	20.53
	DFT-s-OFDM 256QAM	1	1	18.47	18.48	18.55
BW	MCS Index	Channel		373000	376500	380000
		Frequency (MHz)		1865	1882.5	1900
30M	DFT-s-OFDM QPSK	1	1	22.83	22.90	23.00
BW	MCS Index	Channel		372500	376500	380500
		Frequency (MHz)		1862.5	1882.5	1902.5
25M	DFT-s-OFDM QPSK	1	1	22.87	22.92	23.03
BW	MCS Index	Channel		372000	376500	381000
		Frequency (MHz)		1860	1882.5	1905

20M	DFT-s-OFDM QPSK	1	1	22.84	22.89	23.01
BW	MCS Index	Channel		371500	376500	381500
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	DFT-s-OFDM QPSK	1	1	22.90	22.96	23.02
BW	MCS Index	Channel		371000	376500	382000
		Frequency (MHz)		1855	1882.5	1910
10M	DFT-s-OFDM QPSK	1	1	22.87	22.94	22.97
BW	MCS Index	Channel		370500	376500	382500
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	DFT-s-OFDM QPSK	1	1	22.88	22.88	22.93

N30

n30 (SCS 15 kHz) (Ant1)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel			462000	
		Frequency (MHz)			2310	
10M	DFT-s-OFDM Pi/2 BPSK	1	1		22.58	
		1	25		22.61	
		1	50		22.62	
		25	0		22.18	
		25	14		22.72	
		25	27		22.17	
		50	0		22.26	
	DFT-s-OFDM QPSK	1	1		22.81	
		1	25		22.70	
		1	50		22.78	
		25	0		21.79	
		25	14		22.76	
		25	27		21.73	
		50	0		21.76	

	DFT-s-OFDM 16QAM	1	1		21.65	
	DFT-s-OFDM 64QAM	1	1		20.25	
	DFT-s-OFDM 256QAM	1	1		18.33	
BW	MCS Index	Channel		461500	462000	462500
		Frequency (MHz)		2307.5	2310	2312.5
5M	DFT-s-OFDM QPSK	1	1	22.67	22.70	22.64

N38

n38 (SCS 30 kHz) (Ant1)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		518000	519000	520000
		Frequency (MHz)		2590	2595	2600
40M	DFT-s-OFDM Pi/2 BPSK	1	1	23.04	23.12	23.10
		1	52	22.96	23.06	23.02
		1	104	22.99	23.13	23.10
		50	0	22.55	22.70	22.63
		50	28	22.99	23.13	23.06
		50	56	22.62	22.76	22.68
		100	0	22.55	22.69	22.72
	DFT-s-OFDM QPSK	1	1	23.03	23.14	23.06
		1	52	22.95	23.10	22.97
		1	104	23.04	23.09	23.05
		50	0	22.09	22.18	22.13
		50	28	23.01	23.09	23.05
		50	56	22.25	22.31	22.26
		100	0	21.97	22.04	22.06
	DFT-s-OFDM 16QAM	1	1	21.63	21.73	21.78
	DFT-s-OFDM 64QAM	1	1	20.35	20.36	20.35
	DFT-s-OFDM 256QAM	1	1	18.42	18.62	18.56
BW	MCS	Channel		517000	519000	521000

	Index	Frequency (MHz)		2585	2595	2605
30M	DFT-s-OFDM QPSK	1	1	22.92	22.99	22.98
BW	MCS Index	Channel		516000	519000	522000
		Frequency (MHz)		2580	2595	2610
20M	DFT-s-OFDM QPSK	1	1	22.97	23.02	23.01

N41

n41 (SCS 30 kHz) (Ant1)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	DFT-s-OFDM Pi/2 BPSK	1	1	23.03	23.00	23.09
		1	137	22.96	22.96	23.07
		1	271	22.80	22.73	22.97
		135	0	22.43	22.35	22.60
		135	69	22.93	22.85	23.10
		135	138	22.43	22.36	22.63
		270	0	22.34	22.45	22.57
	DFT-s-OFDM QPSK	1	1	23.03	23.08	23.13
		1	137	23.01	23.04	23.12
		1	271	22.75	22.77	22.91
		135	0	22.01	22.03	22.18
		135	69	22.94	22.95	23.12
		135	138	22.12	22.15	22.29
		270	0	21.87	22.01	22.09
	DFT-s-OFDM 16QAM	1	1	21.49	21.53	21.71
	DFT-s-OFDM 64QAM	1	1	20.15	20.24	20.34
	DFT-s-OFDM 256QAM	1	1	18.29	18.46	18.51
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98



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VERITAS**

Test Report No.: W7L-P24050018RF11

90M	DFT-s-OFDM QPSK	1	1	23.00	23.04	23.11
BW	MCS Index	Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	DFT-s-OFDM QPSK	1	1	22.92	22.97	23.11
BW	MCS Index	Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	DFT-s-OFDM QPSK	1	1	22.99	23.02	23.04
BW	MCS Index	Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	DFT-s-OFDM QPSK	1	1	22.99	22.94	23.06
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	DFT-s-OFDM QPSK	1	1	22.98	23.04	23.01
BW	MCS Index	Channel		502200	518598	534996
		Frequency (MHz)		2511	2592.99	2674.98
30M	DFT-s-OFDM QPSK	1	1	22.96	22.93	23.04
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	DFT-s-OFDM QPSK	1	1	22.89	23.02	23.09

N66

n66 (SCS 15 kHz) (Ant1)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		346000	349000	352000
		Frequency (MHz)		1730	1745	1760
40M	DFT-s-OFDM Pi/2 BPSK	1	1	22.89	23.01	22.95
		1	107	22.94	22.98	22.95
		1	214	22.79	22.88	22.87
		108	0	22.49	22.58	22.55
		108	54	22.86	22.96	22.92
		108	108	22.52	22.58	22.57
		216	0	22.48	22.58	22.55
	DFT-s-OFDM QPSK	1	1	23.02	23.13	23.09
		1	107	23.04	23.13	23.05
		1	214	22.92	23.04	22.98
		108	0	22.02	22.07	22.04
		108	54	22.96	23.05	23.05
		108	108	22.09	22.15	22.14
		216	0	21.98	22.08	22.02
	DFT-s-OFDM 16QAM	1	1	21.97	22.06	22.07
	DFT-s-OFDM 64QAM	1	1	20.57	20.67	20.63
	DFT-s-OFDM 256QAM	1	1	18.66	18.74	18.68
BW	MCS Index	Channel		345000	349000	353000
		Frequency (MHz)		1725	1745	1765
30M	DFT-s-OFDM QPSK	1	1	22.97	23.07	23.03
BW	MCS Index	Channel		344000	349000	354000
		Frequency (MHz)		1720	1745	1770
20M	DFT-s-OFDM QPSK	1	1	22.92	23.10	23.08
BW	MCS Index	Channel		343500	349000	354500
		Frequency (MHz)		1717.5	1745	1772.5

15M	DFT-s-OFDM QPSK	1	1	22.92	23.12	23.00
BW	MCS Index	Channel		343000	349000	355000
		Frequency (MHz)		1715	1745	1775
10M	DFT-s-OFDM QPSK	1	1	22.97	23.12	23.04
BW	MCS Index	Channel		342500	349000	355500
		Frequency (MHz)		1712.5	1745	1777.5
5M	DFT-s-OFDM QPSK	1	1	22.98	23.04	23.03

N71

n71 (SCS 15 kHz) (Ant2)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		134600	136100	137600
		Frequency (MHz)		673	680.5	688
20M	DFT-s-OFDM Pi/2 BPSK	1	1	22.88	22.91	22.90
		1	53	22.97	23.00	22.98
		1	104	22.95	22.96	22.96
		50	0	22.46	22.55	22.50
		50	28	22.97	23.01	23.00
		50	56	22.48	22.54	22.49
		100	0	22.52	22.52	22.52
	DFT-s-OFDM QPSK	1	1	23.09	23.13	23.12
		1	53	23.01	23.07	23.07
		1	104	23.04	23.11	23.09
		50	0	22.01	22.05	21.98
		50	28	23.00	23.09	23.07
		50	56	21.97	22.06	22.03
		100	0	22.05	22.06	22.03
	DFT-s-OFDM 16QAM	1	1	21.97	22.04	22.01
	DFT-s-OFDM 64QAM	1	1	20.49	20.54	20.48
	DFT-s-OFDM 256QAM	1	1	18.51	18.57	18.54
BW	MCS	Channel		134100	136100	138100

	Index	Frequency (MHz)		670.5	680.5	690.5
15M	DFT-s-OFDM QPSK	1	1	23.01	23.04	23.08
BW	MCS Index	Channel		133600	136100	138600
		Frequency (MHz)		668	680.5	693
10M	DFT-s-OFDM QPSK	1	1	23.00	23.03	23.07
BW	MCS Index	Channel		133100	136100	139100
		Frequency (MHz)		665.5	680.5	695.5
5M	DFT-s-OFDM QPSK	1	1	23.07	23.11	23.12

N77

n77 (SCS 30 kHz) (Ant7)_3450MHz-3550MHz for FCC						
BW	MCS Index	RB Size	RB Offset		Mid	
		Channel			633334	
		Frequency (MHz)			3500.01	
100M	DFT-s-OFDM Pi/2 BPSK	1	1		22.78	
		1	137		22.76	
		1	271		22.81	
		135	0		22.34	
		135	69		22.77	
		135	138		22.34	
		270	0		22.30	
	DFT-s-OFDM QPSK	1	1		22.91	
		1	137		22.74	
		1	271		22.75	
		135	0		21.88	
		135	69		22.65	
		135	138		21.91	
		270	0		21.78	
	DFT-s-OFDM 16QAM	1	1		21.92	
	DFT-s-OFDM 64QAM	1	1		20.46	

	DFT-s-OFDM 256QAM	1	1		18.47	
BW	MCS Index	Channel		633000	633334	633666
		Frequency (MHz)		3495	3500.01	3504.99
90M	DFT-s-OFDM QPSK	1	1	22.85	22.86	22.89
BW	MCS Index	Channel		632668	633334	634000
		Frequency (MHz)		3490.02	3500.01	3510
80M	DFT-s-OFDM QPSK	1	1	22.84	22.81	22.89
BW	MCS Index	Channel		632334	633334	634332
		Frequency (MHz)		3485.01	3500.01	3514.98
70M	DFT-s-OFDM QPSK	1	1	22.84	22.81	22.81
BW	MCS Index	Channel		632000	633334	634666
		Frequency (MHz)		3480	3500.01	3519.99
60M	DFT-s-OFDM QPSK	1	1	22.83	22.82	22.84
BW	MCS Index	Channel		631668	633334	635000
		Frequency (MHz)		3475.02	3500.01	3525
50M	DFT-s-OFDM QPSK	1	1	22.88	22.84	22.88
BW	MCS Index	Channel		631334	633334	635332
		Frequency (MHz)		3470.01	3500.01	3529.98
40M	DFT-s-OFDM QPSK	1	1	22.81	22.90	22.85
BW	MCS Index	Channel		631000	633334	635666
		Frequency (MHz)		3465	3500.01	3534.99
30M	DFT-s-OFDM QPSK	1	1	22.91	22.90	22.85
BW	MCS Index	Channel		630668	633334	636000
		Frequency (MHz)		3460.02	3500.01	3540
20M	DFT-s-OFDM QPSK	1	1	22.82	22.85	22.85
BW	MCS Index	Channel		630334	633334	636332
		Frequency (MHz)		3455.01	3500.01	3544.98
10M	DFT-s-OFDM QPSK	1	1	22.83	22.88	22.88

n77 (SCS 30 kHz) (Ant7)_3700MHz-3980MHz for FCC						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		650000	656000	662000
		Frequency (MHz)		3750	3840	3930
100M	DFT-s-OFDM Pi/2 BPSK	1	1	22.72	22.76	22.60
		1	137	22.75	22.79	22.65
		1	271	22.68	22.69	22.54
		135	0	22.34	22.33	22.18
		135	69	22.82	22.81	22.70
		135	138	22.22	22.26	22.07
		270	0	22.33	22.36	22.17
	DFT-s-OFDM QPSK	1	1	22.99	23.02	22.93
		1	137	22.97	22.99	22.85
		1	271	22.90	22.90	22.77
		135	0	21.97	22.01	21.84
		135	69	22.97	23.01	22.82
		135	138	21.92	21.97	21.80
		270	0	21.96	21.94	21.83
	DFT-s-OFDM 16QAM	1	1	21.96	22.00	21.83
	DFT-s-OFDM 64QAM	1	1	20.46	20.52	20.33
	DFT-s-OFDM 256QAM	1	1	18.51	18.55	18.36
BW	MCS Index	Channel		649668	656000	662332
		Frequency (MHz)		3745.02	3840	3934.98
90M	DFT-s-OFDM QPSK	1	1	22.98	22.92	22.92
BW	MCS Index	Channel		649334	656000	662666
		Frequency (MHz)		3740.01	3840	3939.99
80M	DFT-s-OFDM QPSK	1	1	22.96	22.97	22.90
BW	MCS Index	Channel		649000	656000	663000
		Frequency (MHz)		3735	3840	3945



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VERITAS**

Test Report No.: W7L-P24050018RF11

70M	DFT-s-OFDM QPSK	1	1	22.92	23.00	22.91
BW	MCS Index	Channel		648668	656000	663332
		Frequency (MHz)		3730.02	3840	3949.98
60M	DFT-s-OFDM QPSK	1	1	22.93	22.97	22.89
BW	MCS Index	Channel		648334	656000	663666
		Frequency (MHz)		3725.01	3840	3954.99
50M	DFT-s-OFDM QPSK	1	1	22.97	22.94	22.84
BW	MCS Index	Channel		648000	656000	664000
		Frequency (MHz)		3720	3840	3960
40M	DFT-s-OFDM QPSK	1	1	22.90	23.01	22.84
BW	MCS Index	Channel		647668	656000	664332
		Frequency (MHz)		3715.02	3840	3964.98
30M	DFT-s-OFDM QPSK	1	1	22.99	22.99	22.90
BW	MCS Index	Channel		647334	656000	664666
		Frequency (MHz)		3710.01	3840	3969.99
20M	DFT-s-OFDM QPSK	1	1	22.92	22.96	22.90
BW	MCS Index	Channel		647000	656000	665000
		Frequency (MHz)		3705	3840	3975
10M	DFT-s-OFDM QPSK	1	1	22.91	23.02	22.83

N78

n78 (SCS 30 kHz) _(Ant7)_3450MHz-3550MHz for FCC						
BW	MCS Index	RB Size	RB Offset		Mid	
		Channel			633334	
		Frequency (MHz)			3500.01	
100M	DFT-s-OFDM Pi/2 BPSK	1	1		22.80	
		1	137		22.76	
		1	271		22.78	
		135	0		22.39	
		135	69		22.73	
		135	138		22.35	
		270	0		22.35	
	DFT-s-OFDM QPSK	1	1		22.96	
		1	137		22.75	
		1	271		22.73	
		135	0		21.89	
		135	69		22.61	
		135	138		21.88	
		270	0		21.82	
	DFT-s-OFDM 16QAM	1	1		21.88	
	DFT-s-OFDM 64QAM	1	1		20.42	
	DFT-s-OFDM 256QAM	1	1		18.48	
BW	MCS Index	Channel		633000	633334	633666
		Frequency (MHz)		3495	3500.01	3504.99
90M	DFT-s-OFDM QPSK	1	1	22.89	22.95	22.96
BW	MCS Index	Channel		632668	633334	634000
		Frequency (MHz)		3490.02	3500.01	3510
80M	DFT-s-OFDM QPSK	1	1	22.95	22.90	22.91
BW	MCS Index	Channel		632334	633334	634332
		Frequency (MHz)		3485.01	3500.01	3514.98



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VERITAS**

Test Report No.: W7L-P24050018RF11

70M	DFT-s-OFDM QPSK	1	1	22.90	22.87	22.87
BW	MCS Index	Channel		632000	633334	634666
		Frequency (MHz)		3480	3500.01	3519.99
60M	DFT-s-OFDM QPSK	1	1	22.92	22.89	22.88
BW	MCS Index	Channel		631668	633334	635000
		Frequency (MHz)		3475.02	3500.01	3525
50M	DFT-s-OFDM QPSK	1	1	22.92	22.94	22.91
BW	MCS Index	Channel		631334	633334	635332
		Frequency (MHz)		3470.01	3500.01	3529.98
40M	DFT-s-OFDM QPSK	1	1	22.86	22.96	22.95
BW	MCS Index	Channel		631000	633334	635666
		Frequency (MHz)		3465	3500.01	3534.99
30M	DFT-s-OFDM QPSK	1	1	22.87	22.91	22.96
BW	MCS Index	Channel		630668	633334	636000
		Frequency (MHz)		3460.02	3500.01	3540
20M	DFT-s-OFDM QPSK	1	1	22.86	22.92	22.90
BW	MCS Index	Channel		630334	633334	636332
		Frequency (MHz)		3455.01	3500.01	3544.98
10M	DFT-s-OFDM QPSK	1	1	22.93	22.94	22.87

MIMO

N41

n41 (SCS 30 kHz)_Ant 1+2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	CP-OFDM QPSK	1	1	22.47	22.78	22.73
		1	137	22.29	22.47	22.61
		1	271	22.31	22.30	22.42
		137	0	20.77	20.77	21.04
		137	68	22.13	22.40	22.57
		137	136	20.53	21.01	21.11
		273	0	20.64	20.92	21.07
	CP-OFDM 16QAM	1	1	21.93	21.82	22.07
	CP-OFDM 64QAM	1	1	20.00	19.94	20.06
	CP-OFDM 256QAM	1	1	17.38	17.29	17.35
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	CP-OFDM QPSK	1	1	22.43	22.61	22.58
BW	MCS Index	Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	CP-OFDM QPSK	1	1	22.43	22.59	22.57
BW	MCS Index	Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	CP-OFDM QPSK	1	1	22.36	22.62	22.53
BW	MCS Index	Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	CP-OFDM QPSK	1	1	22.44	22.49	22.35
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670

40M	CP-OFDM QPSK	1	1	22.39	22.46	22.23
BW	MCS Index	Channel		502200	518598	534996
		Frequency (MHz)		2511	2592.99	2674.98
30M	CP-OFDM QPSK	1	1	22.51	22.68	22.17
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	CP-OFDM QPSK	1	1	22.32	22.43	22.29

N77

n77 (SCS 30 kHz) (Ant7+4)_3450MHz-3550MHz for FCC						
BW	MCS Index	RB Size	RB Offset		Mid	
		Channel			633334	
		Frequency (MHz)			3500.01	
100M	CP-OFDM QPSK	1	1		22.22	
		1	137		22.14	
		1	271		22.12	
		137	0		20.57	
		137	68		22.15	
		137	136		20.55	
		273	0		20.62	
	CP-OFDM 16QAM	1	1		21.65	
	CP-OFDM 64QAM	1	1		20.17	
	CP-OFDM 256QAM	1	1		17.27	
BW	MCS Index	Channel		633000	633334	633666
		Frequency (MHz)		3495	3500.01	3504.99
90M	CP-OFDM QPSK	1	1	22.18	22.21	22.19
BW	MCS Index	Channel		632668	633334	634000
		Frequency (MHz)		3490.02	3500.01	3510
80M	CP-OFDM QPSK	1	1	22.16	22.17	22.04
BW	MCS	Channel		632334	633334	634332

	Index	Frequency (MHz)		3485.01	3500.01	3514.98
70M	CP-OFDM QPSK	1	1	22.10	22.06	22.08
BW	MCS Index	Channel		632000	633334	634666
		Frequency (MHz)		3480	3500.01	3519.99
60M	CP-OFDM QPSK	1	1	22.03	22.18	22.17
BW	MCS Index	Channel		631668	633334	635000
		Frequency (MHz)		3475.02	3500.01	3525
50M	CP-OFDM QPSK	1	1	22.09	22.16	22.04
BW	MCS Index	Channel		631334	633334	635332
		Frequency (MHz)		3470.01	3500.01	3529.98
40M	CP-OFDM QPSK	1	1	22.13	22.18	22.07
BW	MCS Index	Channel		631000	633334	635666
		Frequency (MHz)		3465	3500.01	3534.99
30M	CP-OFDM QPSK	1	1	22.16	22.15	22.10
BW	MCS Index	Channel		630668	633334	636000
		Frequency (MHz)		3460.02	3500.01	3540
20M	CP-OFDM QPSK	1	1	22.04	22.15	22.05
BW	MCS Index	Channel		630334	633334	636332
		Frequency (MHz)		3455.01	3500.01	3544.98
10M	CP-OFDM QPSK	1	1	22.08	22.12	22.18

n77 (SCS 30 kHz) (Ant7+4)_3700MHz-3980MHz for FCC						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		650000	656000	662000
		Frequency (MHz)		3750	3840	3930
100M	CP-OFDM QPSK	1	1	22.43	22.45	22.37
		1	137	22.35	22.42	22.32
		1	271	22.28	22.30	22.23
		137	0	20.89	20.98	20.95
		137	68	22.38	22.41	22.34
		137	136	20.69	20.94	20.74
		273	0	20.86	20.92	20.85
	CP-OFDM 16QAM	1	1	22.05	22.10	21.97
	CP-OFDM 64QAM	1	1	20.22	20.31	20.19
	CP-OFDM 256QAM	1	1	17.69	17.57	17.57
BW	MCS Index	Channel		649668	656000	662332
		Frequency (MHz)		3745.02	3840	3934.98
90M	CP-OFDM QPSK	1	1	22.37	22.30	22.35
BW	MCS Index	Channel		649334	656000	662666
		Frequency (MHz)		3740.01	3840	3939.99
80M	CP-OFDM QPSK	1	1	22.33	22.31	22.27
BW	MCS Index	Channel		649000	656000	663000
		Frequency (MHz)		3735	3840	3945
70M	CP-OFDM QPSK	1	1	22.32	22.41	22.26
BW	MCS Index	Channel		648668	656000	663332
		Frequency (MHz)		3730.02	3840	3949.98
60M	CP-OFDM QPSK	1	1	22.28	22.31	22.32
BW	MCS Index	Channel		648334	656000	663666
		Frequency (MHz)		3725.01	3840	3954.99
50M	CP-OFDM QPSK	1	1	22.40	22.41	22.24

BW	MCS Index	Channel		648000	656000	664000
		Frequency (MHz)		3720	3840	3960
40M	CP-OFDM QPSK	1	1	22.42	22.37	22.31
BW	MCS Index	Channel		647668	656000	664332
		Frequency (MHz)		3715.02	3840	3964.98
30M	CP-OFDM QPSK	1	1	22.28	22.39	22.30
BW	MCS Index	Channel		647334	656000	664666
		Frequency (MHz)		3710.01	3840	3969.99
20M	CP-OFDM QPSK	1	1	22.36	22.34	22.25
BW	MCS Index	Channel		647000	656000	665000
		Frequency (MHz)		3705	3840	3975
10M	CP-OFDM QPSK	1	1	22.42	22.42	22.29

N78

n78 (SCS 30 kHz) _(Ant7+4)_3450MHz-3550MHz for FCC						
BW	MCS Index	RB Size	RB Offset		Mid	
		Channel			633334	
		Frequency (MHz)			3500.01	
100M	CP-OFDM QPSK	1	1		22.25	
		1	137		22.16	
		1	271		22.04	
		137	0		20.62	
		137	68		22.14	
		137	136		20.62	
		273	0		20.61	
	CP-OFDM 16QAM	1	1		21.81	
	CP-OFDM 64QAM	1	1		19.97	
	CP-OFDM 256QAM	1	1		17.27	
BW	MCS Index	Channel		633000	633334	633666
		Frequency (MHz)		3495	3500.01	3504.99
90M	CP-OFDM QPSK	1	1	22.21	22.23	22.19
BW	MCS Index	Channel		632668	633334	634000
		Frequency (MHz)		3490.02	3500.01	3510
80M	CP-OFDM QPSK	1	1	22.14	22.08	22.15
BW	MCS Index	Channel		632334	633334	634332
		Frequency (MHz)		3485.01	3500.01	3514.98
70M	CP-OFDM QPSK	1	1	22.14	22.13	22.14
BW	MCS Index	Channel		632000	633334	634666
		Frequency (MHz)		3480	3500.01	3519.99
60M	CP-OFDM QPSK	1	1	22.15	22.09	22.10
BW	MCS Index	Channel		631668	633334	635000
		Frequency (MHz)		3475.02	3500.01	3525
50M	CP-OFDM QPSK	1	1	22.07	22.16	22.16



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Test Report No.: W7L-P24050018RF11

BW	MCS Index	Channel		631334	633334	635332
		Frequency (MHz)		3470.01	3500.01	3529.98
40M	CP-OFDM QPSK	1	1	22.16	22.18	22.17
BW	MCS Index	Channel		631000	633334	635666
		Frequency (MHz)		3465	3500.01	3534.99
30M	CP-OFDM QPSK	1	1	22.11	22.16	22.10
BW	MCS Index	Channel		630668	633334	636000
		Frequency (MHz)		3460.02	3500.01	3540
20M	CP-OFDM QPSK	1	1	22.20	22.19	22.12
BW	MCS Index	Channel		630334	633334	636332
		Frequency (MHz)		3455.01	3500.01	3544.98
10M	CP-OFDM QPSK	1	1	22.15	22.11	22.10

**EIRP
N2**

n2 20M DFT-s-OFDM Pi/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	22.98	-0.1	22.88	194.09	2
376000	1880	23.06	-0.1	22.96	197.7	2
380000	1900	22.95	-0.1	22.85	192.75	2

n2 20M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.05	-0.1	22.95	197.24	2
376000	1880	23.09	-0.1	22.99	199.07	2
380000	1900	22.98	-0.1	22.88	194.09	2

n2 20M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	21.92	-0.1	21.82	152.05	2
376000	1880	21.97	-0.1	21.87	153.82	2
380000	1900	21.91	-0.1	21.81	151.71	2

n2 20M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	20.51	-0.1	20.41	109.9	2
376000	1880	20.56	-0.1	20.46	111.17	2
380000	1900	20.48	-0.1	20.38	109.14	2

n2 20M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	18.55	-0.1	18.45	69.98	2
376000	1880	18.6	-0.1	18.5	70.79	2
380000	1900	18.48	-0.1	18.38	68.87	2

n2 15M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	22.97	-0.1	22.87	193.64	2
376000	1880	23.07	-0.1	22.97	198.15	2
380500	1902.5	22.91	-0.1	22.81	190.99	2

n2 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.03	-0.1	22.93	196.34	2
376000	1880	23	-0.1	22.9	194.98	2
381000	1905	22.93	-0.1	22.83	191.87	2

n2 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	22.96	-0.1	22.86	193.2	2
376000	1880	23.05	-0.1	22.95	197.24	2
381500	1907.5	22.91	-0.1	22.81	190.99	2

N5

n5 20M DFT-s-OFDM Pi/2 BPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.1	-1.3	19.65	92.26	7
167300	836.5	23.12	-1.3	19.67	92.68	7
167800	839	23.13	-1.3	19.68	92.9	7

n5 20M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.17	-1.3	19.72	93.76	7
167300	836.5	23.22	-1.3	19.77	94.84	7
167800	839	23.14	-1.3	19.69	93.11	7

n5 20M DFT-s-OFDM 16QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	21.8	-1.3	18.35	68.39	7
167300	836.5	21.91	-1.3	18.46	70.15	7
167800	839	21.7	-1.3	18.25	66.83	7

n5 20M DFT-s-OFDM 64QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	20.4	-1.3	16.95	49.55	7
167300	836.5	20.39	-1.3	16.94	49.43	7
167800	839	20.29	-1.3	16.84	48.31	7

n5 20M DFT-s-OFDM 256QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	18.57	-1.3	15.12	32.51	7
167300	836.5	18.66	-1.3	15.21	33.19	7
167800	839	18.54	-1.3	15.09	32.28	7

n5 15M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	23.03	-1.3	19.58	90.78	7
167300	836.5	23.13	-1.3	19.68	92.9	7
168300	841.5	23	-1.3	19.55	90.16	7

n5 10M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.16	-1.3	19.71	93.54	7
167300	836.5	23.12	-1.3	19.67	92.68	7
168800	844	23.06	-1.3	19.61	91.41	7

n5 5M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	23.03	-1.3	19.58	90.78	7
167300	836.5	23.1	-1.3	19.65	92.26	7
169300	846.5	23.13	-1.3	19.68	92.9	7

N7

n7 40M DFT-s-OFDM Pi/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503500	2517.5	23.05	0.7	23.75	237.14	2
507000	2535	22.92	0.7	23.62	230.14	2
510500	2552.5	22.94	0.7	23.64	231.21	2

n7 40M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503500	2517.5	23.09	0.7	23.79	239.33	2
507000	2535	23	0.7	23.7	234.42	2
510500	2552.5	23.08	0.7	23.78	238.78	2

n7 40M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503500	2517.5	21.76	0.7	22.46	176.2	2
507000	2535	21.71	0.7	22.41	174.18	2
510500	2552.5	21.66	0.7	22.36	172.19	2

n7 40M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503500	2517.5	20.37	0.7	21.07	127.94	2
507000	2535	20.32	0.7	21.02	126.47	2
510500	2552.5	20.29	0.7	20.99	125.6	2

n7 40M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503500	2517.5	18.67	0.7	19.37	86.5	2
507000	2535	18.49	0.7	19.19	82.99	2
510500	2552.5	18.6	0.7	19.3	85.11	2

n7 30M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503000	2515	22.96	0.7	23.66	232.27	2
507000	2535	22.94	0.7	23.64	231.21	2
511000	2555	22.94	0.7	23.64	231.21	2

n7 25M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502500	2512.5	23.05	0.7	23.75	237.14	2
507000	2535	22.92	0.7	23.62	230.14	2
511500	2557.5	23.01	0.7	23.71	234.96	2

n7 20M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502000	2510	22.98	0.7	23.68	233.35	2
507000	2535	22.88	0.7	23.58	228.03	2
512000	2560	23.07	0.7	23.77	238.23	2

n7 15M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501500	2507.5	23.03	0.7	23.73	236.05	2
507000	2535	22.97	0.7	23.67	232.81	2
512500	2562.5	22.97	0.7	23.67	232.81	2

n7 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501000	2505	22.97	0.7	23.67	232.81	2
507000	2535	22.91	0.7	23.61	229.61	2
513000	2565	23.04	0.7	23.74	236.59	2

n7 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500500	2502.5	23.01	0.7	23.71	234.96	2
507000	2535	22.9	0.7	23.6	229.09	2
513500	2567.5	23	0.7	23.7	234.42	2

N12

n12 15M DFT-s-OFDM Pi/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	22.94	-0.3	20.49	111.94	3
141500	707.5	22.89	-0.3	20.44	110.66	3
141700	708.5	22.85	-0.3	20.4	109.65	3

n12 15M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	22.99	-0.3	20.54	113.24	3
141500	707.5	22.91	-0.3	20.46	111.17	3
141700	708.5	22.91	-0.3	20.46	111.17	3

n12 15M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	22.11	-0.3	19.66	92.47	3
141500	707.5	22.01	-0.3	19.56	90.36	3
141700	708.5	21.97	-0.3	19.52	89.54	3

n12 15M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	20.39	-0.3	17.94	62.23	3
141500	707.5	20.28	-0.3	17.83	60.67	3
141700	708.5	20.28	-0.3	17.83	60.67	3

n12 15M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	18.65	-0.3	16.2	41.69	3
141500	707.5	18.55	-0.3	16.1	40.74	3
141700	708.5	18.54	-0.3	16.09	40.64	3

n12 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	22.96	-0.3	20.51	112.46	3
141500	707.5	22.87	-0.3	20.42	110.15	3
142200	711	22.83	-0.3	20.38	109.14	3

n12 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	22.91	-0.3	20.46	111.17	3
141500	707.5	22.89	-0.3	20.44	110.66	3
142700	713.5	22.81	-0.3	20.36	108.64	3

N14

n14 10M DFT-s-OFDM PI/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	22.95	-1.5	19.3	85.11	3

n14 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	22.95	-1.5	19.3	85.11	3

n14 10M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	22.18	-1.5	18.53	71.29	3

n14 10M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	20.71	-1.5	17.06	50.82	3

n14 10M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	18.37	-1.5	14.72	29.65	3

n14 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158100	790.5	22.93	-1.5	19.28	84.72	3
158600	793	22.85	-1.5	19.2	83.18	3
159100	795.5	22.91	-1.5	19.26	84.33	3

N25

n25 40M DFT-s-OFDM PI/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	22.84	-0.1	22.74	187.93	2
376500	1882.5	22.88	-0.1	22.78	189.67	2
379000	1895	22.94	-0.1	22.84	192.31	2

n25 40M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	22.91	-0.1	22.81	190.99	2
376500	1882.5	22.97	-0.1	22.87	193.64	2
379000	1895	23.03	-0.1	22.93	196.34	2

n25 40M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	22.8	-0.1	22.7	186.21	2
376500	1882.5	22.85	-0.1	22.75	188.36	2
379000	1895	22.91	-0.1	22.81	190.99	2

n25 40M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	20.42	-0.1	20.32	107.65	2
376500	1882.5	20.47	-0.1	20.37	108.89	2
379000	1895	20.53	-0.1	20.43	110.41	2

n25 40M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	18.47	-0.1	18.37	68.71	2
376500	1882.5	18.48	-0.1	18.38	68.87	2
379000	1895	18.55	-0.1	18.45	69.98	2

n25 30M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
373000	1865	22.83	-0.1	22.73	187.5	2
376500	1882.5	22.9	-0.1	22.8	190.55	2
380000	1900	23	-0.1	22.9	194.98	2

n25 25M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372500	1862.5	22.87	-0.1	22.77	189.23	2
376500	1882.5	22.92	-0.1	22.82	191.43	2
380500	1902.5	23.03	-0.1	22.93	196.34	2

n25 20M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	22.84	-0.1	22.74	187.93	2
376500	1882.5	22.89	-0.1	22.79	190.11	2
381000	1905	23.01	-0.1	22.91	195.43	2

n25 15M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	22.9	-0.1	22.8	190.55	2
376500	1882.5	22.96	-0.1	22.86	193.2	2
381500	1907.5	23.02	-0.1	22.92	195.88	2

n25 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	22.87	-0.1	22.77	189.23	2
376500	1882.5	22.94	-0.1	22.84	192.31	2
382000	1910	22.97	-0.1	22.87	193.64	2

n25 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	22.88	-0.1	22.78	189.67	2
376000	1882.5	22.88	-0.1	22.78	189.67	2
382500	1912.5	22.93	-0.1	22.83	191.87	2

N30

n30 10M DFT-s-OFDM Pi/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (W)
462000	2310	22.72	1	23.72	235.5	0.25

n30 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (W)
462000	2310	22.81	1	23.81	240.44	0.25

n30 10M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (W)
462000	2310	21.65	1	22.65	184.08	0.25

n30 10M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (W)
462000	2310	20.25	1	21.25	133.35	0.25

n30 10M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (W)
462000	2310	18.33	1	19.33	85.7	0.25

n30 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Lmit (W)
461500	2307.5	22.67	1	23.67	232.81	0.25
462000	2310	22.7	1	23.7	234.42	0.25
462500	2312.5	22.64	1	23.64	231.21	0.25

N38

n38 40M DFT-s-OFDM PI/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518000	2590	23.04	0.3	23.34	215.77	2
519000	2595	23.13	0.3	23.43	220.29	2
520000	2600	23.1	0.3	23.4	218.78	2

n38 40M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518000	2590	23.04	0.3	23.34	215.77	2
519000	2595	23.14	0.3	23.44	220.8	2
520000	2600	23.06	0.3	23.36	216.77	2

n38 40M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518000	2590	21.63	0.3	21.93	155.96	2
519000	2595	21.73	0.3	22.03	159.59	2
520000	2600	21.78	0.3	22.08	161.44	2

n38 40M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518000	2590	20.35	0.3	20.65	116.14	2
519000	2595	20.36	0.3	20.66	116.41	2
520000	2600	20.35	0.3	20.65	116.14	2

n38 40M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518000	2590	18.42	0.3	18.72	74.47	2
519000	2595	18.62	0.3	18.92	77.98	2
520000	2600	18.56	0.3	18.86	76.91	2

n38 30M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
517000	2585	22.92	0.3	23.22	209.89	2
519000	2595	22.99	0.3	23.29	213.3	2
521000	2605	22.98	0.3	23.28	212.81	2

n38 20M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	22.97	0.3	23.27	212.32	2
519000	2595	23.02	0.3	23.32	214.78	2
522000	2610	23.01	0.3	23.31	214.29	2

N41

n41 100M DFT-s-OFDM Pi/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.03	0.7	23.73	236.05	2
518598	2592.99	23	0.7	23.7	234.42	2
528000	2640	23.1	0.7	23.8	239.88	2

n41 100M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.03	0.7	23.73	236.05	2
518598	2592.99	23.08	0.7	23.78	238.78	2
528000	2640	23.13	0.7	23.83	241.55	2

n41 100M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.49	0.7	22.19	165.58	2
518598	2592.99	21.53	0.7	22.23	167.11	2
528000	2640	21.71	0.7	22.41	174.18	2

n41 100M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	20.15	0.7	20.85	121.62	2
518598	2592.99	20.24	0.7	20.94	124.17	2
528000	2640	20.34	0.7	21.04	127.06	2

n41 100M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	18.29	0.7	18.99	79.25	2
518598	2592.99	18.46	0.7	19.16	82.41	2
528000	2640	18.51	0.7	19.21	83.37	2

n41 90M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	23	0.7	23.7	234.42	2
518598	2592.99	23.04	0.7	23.74	236.59	2
528996	2644.98	23.11	0.7	23.81	240.44	2

n41 80M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	22.92	0.7	23.62	230.14	2
518598	2592.99	22.97	0.7	23.67	232.81	2
529998	2649.99	23.11	0.7	23.81	240.44	2

n41 60M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.99	0.7	23.69	233.88	2
518598	2592.99	23.02	0.7	23.72	235.5	2
531996	2659.98	23.04	0.7	23.74	236.59	2

n41 50M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	22.99	0.7	23.69	233.88	2
518598	2592.99	22.94	0.7	23.64	231.21	2
532998	2664.99	23.06	0.7	23.76	237.68	2

n41 40M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.98	0.7	23.68	233.35	2
518598	2592.99	23.04	0.7	23.74	236.59	2
534000	2670	23.01	0.7	23.71	234.96	2

n41 30M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	22.96	0.7	23.66	232.27	2
518598	2592.99	22.93	0.7	23.63	230.67	2
534996	2674.98	23.04	0.7	23.74	236.59	2

n41 20M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.89	0.7	23.59	228.56	2
518598	2592.99	23.02	0.7	23.72	235.5	2
535998	2679.99	23.09	0.7	23.79	239.33	2

N66

n66 40M DFT-s-OFDM Pi/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	22.94	0.6	23.54	225.94	1
349000	1745	23.01	0.6	23.61	229.61	1
352000	1760	22.95	0.6	23.55	226.46	1

n66 40M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	23.04	0.6	23.64	231.21	1
349000	1745	23.13	0.6	23.73	236.05	1
352000	1760	23.09	0.6	23.69	233.88	1

n66 40M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	21.97	0.6	22.57	180.72	1
349000	1745	22.06	0.6	22.66	184.5	1
352000	1760	22.07	0.6	22.67	184.93	1

n66 40M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	20.57	0.6	21.17	130.92	1
349000	1745	20.67	0.6	21.27	133.97	1
352000	1760	20.63	0.6	21.23	132.74	1

n66 40M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	18.66	0.6	19.26	84.33	1
349000	1745	18.74	0.6	19.34	85.9	1
352000	1760	18.68	0.6	19.28	84.72	1

n66 30M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
345000	1725	22.97	0.6	23.57	227.51	1
349000	1745	23.07	0.6	23.67	232.81	1
353000	1765	23.03	0.6	23.63	230.67	1

n66 20M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	22.92	0.6	23.52	224.91	1
349000	1745	23.1	0.6	23.7	234.42	1
354000	1770	23.08	0.6	23.68	233.35	1

n66 15M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	22.92	0.6	23.52	224.91	1
349000	1745	23.12	0.6	23.72	235.5	1
354500	1772.5	23	0.6	23.6	229.09	1

n66 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	22.97	0.6	23.57	227.51	1
349000	1745	23.12	0.6	23.72	235.5	1
355000	1775	23.04	0.6	23.64	231.21	1

n66 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	22.98	0.6	23.58	228.03	1
349000	1745	23.04	0.6	23.64	231.21	1
355500	1777.5	23.03	0.6	23.63	230.67	1

N71

n71 20M DFT-s-OFDM PI/2 BPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	22.97	-1.5	19.32	85.51	3
136100	680.5	23.01	-1.5	19.36	86.3	3
137600	688	23	-1.5	19.35	86.1	3

n71 20M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	23.09	-1.5	19.44	87.9	3
136100	680.5	23.13	-1.5	19.48	88.72	3
137600	688	23.12	-1.5	19.47	88.51	3

n71 20M DFT-s-OFDM 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	21.97	-1.5	18.32	67.92	3
136100	680.5	22.04	-1.5	18.39	69.02	3
137600	688	22.01	-1.5	18.36	68.55	3

n71 20M DFT-s-OFDM 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	20.49	-1.5	16.84	48.31	3
136100	680.5	20.54	-1.5	16.89	48.87	3
137600	688	20.48	-1.5	16.83	48.19	3

n71 20M DFT-s-OFDM 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134600	673	18.51	-1.5	14.86	30.62	3
136100	680.5	18.57	-1.5	14.92	31.05	3
137600	688	18.54	-1.5	14.89	30.83	3

n71 15M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
134100	670.5	23.01	-1.5	19.36	86.3	3
136100	680.5	23.04	-1.5	19.39	86.9	3
138100	690.5	23.08	-1.5	19.43	87.7	3

n71 10M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133600	668	23	-1.5	19.35	86.1	3
136100	680.5	23.03	-1.5	19.38	86.7	3
138600	693	23.07	-1.5	19.42	87.5	3

n71 5M DFT-s-OFDM QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133100	665.5	23.07	-1.5	19.42	87.5	3
136100	680.5	23.11	-1.5	19.46	88.31	3
139100	695.5	23.12	-1.5	19.47	88.51	3

N77

n77(3450-3550) 100M DFT-s-OFDM Pi/2 BPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.81	-0.9	21.91	155.24	1

n77(3450-3550) 100M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.91	-0.9	22.01	158.85	1

n77(3450-3550) 100M DFT-s-OFDM 16QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.92	-0.9	21.02	126.47	1

n77(3450-3550) 100M DFT-s-OFDM 64QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.46	-0.9	19.56	90.36	1

n77(3450-3550) 100M DFT-s-OFDM 256QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	18.47	-0.9	17.57	57.15	1

n77(3450-3550) 90M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	22.85	-0.9	21.95	156.68	1
633334	3500.01	22.86	-0.9	21.96	157.04	1
633666	3504.99	22.89	-0.9	21.99	158.12	1

n77(3450-3550) 80M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	22.84	-0.9	21.94	156.31	1
633334	3500.01	22.81	-0.9	21.91	155.24	1
634000	3510	22.89	-0.9	21.99	158.12	1

n77(3450-3550) 70M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	22.84	-0.9	21.94	156.31	1
633334	3500.01	22.81	-0.9	21.91	155.24	1
634332	3514.98	22.81	-0.9	21.91	155.24	1

n77(3450-3550) 60M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	22.83	-0.9	21.93	155.96	1
633334	3500.01	22.82	-0.9	21.92	155.6	1
634666	3519.99	22.84	-0.9	21.94	156.31	1

n77(3450-3550) 50M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	22.88	-0.9	21.98	157.76	1
633334	3500.01	22.84	-0.9	21.94	156.31	1
635000	3525	22.88	-0.9	21.98	157.76	1

n77(3450-3550) 40M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	22.81	-0.9	21.91	155.24	1
633334	3500.01	22.9	-0.9	22	158.49	1
635332	3529.98	22.85	-0.9	21.95	156.68	1

n77(3450-3550) 30M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	22.91	-0.9	22.01	158.85	1
633334	3500.01	22.9	-0.9	22	158.49	1
635666	3534.99	22.85	-0.9	21.95	156.68	1

n77(3450-3550) 20M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.82	-0.9	21.92	155.6	1
633334	3500.01	22.85	-0.9	21.95	156.68	1
636000	3540	22.85	-0.9	21.95	156.68	1

n77(3450-3550) 10M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	22.83	-0.9	21.93	155.96	1
633334	3500.01	22.88	-0.9	21.98	157.76	1
636332	3544.98	22.88	-0.9	21.98	157.76	1

n77(3700-3980) 100M DFT-s-OFDM Pi/2 BPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	22.82	-0.9	21.92	155.6	1
656000	3840	22.81	-0.9	21.91	155.24	1
662000	3930	22.7	-0.9	21.8	151.36	1

n77(3700-3980) 100M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	22.99	-0.9	22.09	161.81	1
656000	3840	23.02	-0.9	22.12	162.93	1
662000	3930	22.93	-0.9	22.03	159.59	1

n77(3700-3980) 100M DFT-s-OFDM 16QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.96	-0.9	21.06	127.64	1
656000	3840	22	-0.9	21.1	128.82	1
662000	3930	21.83	-0.9	20.93	123.88	1

n77(3700-3980) 100M DFT-s-OFDM 64QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.46	-0.9	19.56	90.36	1
656000	3840	20.52	-0.9	19.62	91.62	1
662000	3930	20.33	-0.9	19.43	87.7	1

n77(3700-3980) 100M DFT-s-OFDM 256QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	18.51	-0.9	17.61	57.68	1
656000	3840	18.55	-0.9	17.65	58.21	1
662000	3930	18.36	-0.9	17.46	55.72	1

n77(3700-3980) 90M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649668	3745.02	22.98	-0.9	22.08	161.44	1
656000	3840	22.92	-0.9	22.02	159.22	1
662332	3934.98	22.92	-0.9	22.02	159.22	1

n77(3700-3980) 80M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	22.96	-0.9	22.06	160.69	1
656000	3840	22.97	-0.9	22.07	161.06	1
662666	3939.99	22.9	-0.9	22	158.49	1

n77(3700-3980) 70M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649000	3735	22.92	-0.9	22.02	159.22	1
656000	3840	23	-0.9	22.1	162.18	1
663000	3945	22.91	-0.9	22.01	158.85	1

n77(3700-3980) 60M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	22.93	-0.9	22.03	159.59	1
656000	3840	22.97	-0.9	22.07	161.06	1
663332	3949.98	22.89	-0.9	21.99	158.12	1

n77(3700-3980) 50M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648334	3725.01	22.97	-0.9	22.07	161.06	1
656000	3840	22.94	-0.9	22.04	159.96	1
663666	3954.99	22.84	-0.9	21.94	156.31	1

n77(3700-3980) 40M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	22.9	-0.9	22	158.49	1
656000	3840	23.01	-0.9	22.11	162.55	1
664000	3960	22.84	-0.9	21.94	156.31	1

n77(3700-3980) 30M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647668	3715.02	22.99	-0.9	22.09	161.81	1
656000	3840	22.99	-0.9	22.09	161.81	1
664332	3964.98	22.9	-0.9	22	158.49	1

n77(3700-3980) 20M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	22.92	-0.9	22.02	159.22	1
656000	3840	22.96	-0.9	22.06	160.69	1
664666	3969.99	22.9	-0.9	22	158.49	1

n77(3700-3980) 10M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	22.91	-0.9	22.01	158.85	1
656000	3840	23.02	-0.9	22.12	162.93	1
664666	3969.99	22.83	-0.9	21.93	155.96	1

N78

n78 100M DFT-s-OFDM Pi/2 BPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.8	-0.2	22.6	181.97	1

n78 100M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.96	-0.2	22.76	188.8	1

n78 100M DFT-s-OFDM 16QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.88	-0.2	21.68	147.23	1

n78 100M DFT-s-OFDM 64QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.42	-0.2	20.22	105.2	1

n78 100M DFT-s-OFDM 256QAM For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	18.48	-0.2	18.28	67.3	1

n78 90M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	22.89	-0.2	22.69	185.78	1
633334	3500.01	22.95	-0.2	22.75	188.36	1
633666	3504.99	22.96	-0.2	22.76	188.8	1

n78 80M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	22.95	-0.2	22.75	188.36	1
633334	3500.01	22.9	-0.2	22.7	186.21	1
634000	3609.99	22.91	-0.2	22.71	186.64	1

n78 70M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	22.9	-0.2	22.7	186.21	1
633334	3500.01	22.87	-0.2	22.67	184.93	1
634332	3514.98	22.87	-0.2	22.67	184.93	1

n78 60M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	22.92	-0.2	22.72	187.07	1
633334	3500.01	22.89	-0.2	22.69	185.78	1
634666	3519.99	22.88	-0.2	22.68	185.35	1

n78 50M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	22.92	-0.2	22.72	187.07	1
633334	3500.01	22.94	-0.2	22.74	187.93	1
635000	3525	22.91	-0.2	22.71	186.64	1

n78 40M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	22.86	-0.2	22.66	184.5	1
633334	3500.01	22.96	-0.2	22.76	188.8	1
635332	3529.98	22.95	-0.2	22.75	188.36	1

n78 30M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	22.87	-0.2	22.67	184.93	1
633334	3500.01	22.91	-0.2	22.71	186.64	1
635666	3534.99	22.96	-0.2	22.76	188.8	1

n78 20M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.86	-0.2	22.66	184.5	1
633334	3500.01	22.92	-0.2	22.72	187.07	1
636000	3540	22.9	-0.2	22.7	186.21	1

n78 10M DFT-s-OFDM QPSK For FCC						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	22.93	-0.2	22.73	187.5	1
633334	3500.01	22.94	-0.2	22.74	187.93	1
636332	3544.98	22.87	-0.2	22.67	184.93	1

**MIMO
N41**

n41 100M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	22.47	4.28	26.75	473.15	2
518598	2592.99	22.78	4.28	27.06	508.16	2
528000	2640	22.73	4.28	27.01	502.34	2

n41 100M CP-OFDM 16QAM (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.93	4.28	26.21	417.83	2
518598	2592.99	21.82	4.28	26.1	407.38	2
528000	2640	22.07	4.28	26.35	431.52	2

n41 100M CP-OFDM 64QAM (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	20	4.28	24.28	267.92	2
518598	2592.99	19.94	4.28	24.22	264.24	2
528000	2640	20.06	4.28	24.34	271.64	2

n41 100M CP-OFDM 256QAM (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	17.38	4.28	21.66	146.55	2
518598	2592.99	17.29	4.28	21.57	143.55	2
528000	2640	17.35	4.28	21.63	145.55	2

n41 90M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	22.43	4.28	26.71	468.81	2
518598	2592.99	22.61	4.28	26.89	488.65	2
528996	2644.98	22.58	4.28	26.86	485.29	2

n41 80M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	22.43	4.28	26.71	468.81	2
518598	2592.99	22.59	4.28	26.87	486.41	2
529998	2649.99	22.57	4.28	26.85	484.17	2

n41 60M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.36	4.28	26.64	461.32	2
518598	2592.99	22.62	4.28	26.9	489.78	2
531996	2659.98	22.53	4.28	26.81	479.73	2

n41 50M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	22.44	4.28	26.72	469.89	2
518598	2592.99	22.49	4.28	26.77	475.34	2
532998	2664.99	22.35	4.28	26.63	460.26	2

n41 40M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.39	4.28	26.67	464.52	2
518598	2592.99	22.46	4.28	26.74	472.06	2
534000	2670	22.23	4.28	26.51	447.71	2

n41 30M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	22.51	4.28	26.79	477.53	2
518598	2592.99	22.68	4.28	26.96	496.59	2
534996	2674.98	22.17	4.28	26.45	441.57	2

n41 20M CP-OFDM QPSK (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.32	4.28	26.6	457.09	2
518598	2592.99	22.43	4.28	26.71	468.81	2
535998	2679.99	22.29	4.28	26.57	453.94	2

N77

n77(3450-3550) 100M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.22	2.78	25	316.23	1

n77(3450-3550) 100M CP-OFDM 16QAM For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.65	2.78	24.43	277.33	1

n77(3450-3550) 100M CP-OFDM 64QAM For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.17	2.78	22.95	197.24	1

n77(3450-3550) 100M CP-OFDM 256QAM For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	17.27	2.78	20.05	101.16	1

n77(3450-3550) 90M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	22.18	2.78	24.96	313.33	1
633334	3500.01	22.21	2.78	24.99	315.5	1
633666	3504.99	22.19	2.78	24.97	314.05	1

n77(3450-3550) 80M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	22.16	2.78	24.94	311.89	1
633334	3500.01	22.17	2.78	24.95	312.61	1
634000	3609.99	22.04	2.78	24.82	303.39	1

n77(3450-3550) 70M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	22.1	2.78	24.88	307.61	1
633334	3500.01	22.06	2.78	24.84	304.79	1
634332	3514.98	22.08	2.78	24.86	306.2	1

n77(3450-3550) 60M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	22.03	2.78	24.81	302.69	1
633334	3500.01	22.18	2.78	24.96	313.33	1
634666	3519.99	22.17	2.78	24.95	312.61	1

n77(3450-3550) 50M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	22.09	2.78	24.87	306.9	1
633334	3500.01	22.16	2.78	24.94	311.89	1
635000	3525	22.04	2.78	24.82	303.39	1

n77(3450-3550) 40M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	22.13	2.78	24.91	309.74	1
633334	3500.01	22.18	2.78	24.96	313.33	1
635332	3529.98	22.07	2.78	24.85	305.49	1

n77(3450-3550) 30M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	22.16	2.78	24.94	311.89	1
633334	3500.01	22.15	2.78	24.93	311.17	1
635666	3534.99	22.1	2.78	24.88	307.61	1

n77(3450-3550) 20M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.04	2.78	24.82	303.39	1
633334	3500.01	22.15	2.78	24.93	311.17	1
636000	3540	22.05	2.78	24.83	304.09	1

n77(3450-3550) 10M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	22.08	2.78	24.86	306.2	1
633334	3500.01	22.12	2.78	24.9	309.03	1
636332	3544.98	22.18	2.78	24.96	313.33	1

n77(3700-3980) 100M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	22.43	2.78	25.21	331.89	1
656000	3840	22.45	2.78	25.23	333.43	1
662000	3930	22.37	2.78	25.15	327.34	1

n77(3700-3980) 100M CP-OFDM 16QAM For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	22.05	2.78	24.83	304.09	1
656000	3840	22.1	2.78	24.88	307.61	1
662000	3930	21.97	2.78	24.75	298.54	1

n77(3700-3980) 100M CP-OFDM 64QAM For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.22	2.78	23	199.53	1
656000	3840	20.31	2.78	23.09	203.7	1
662000	3930	20.19	2.78	22.97	198.15	1

n77(3700-3980) 100M CP-OFDM 256QAM For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	17.69	2.78	20.47	111.43	1
656000	3840	17.57	2.78	20.35	108.39	1
662000	3930	17.57	2.78	20.35	108.39	1

n77(3700-3980) 90M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649668	3745.02	22.37	2.78	25.15	327.34	1
656000	3840	22.3	2.78	25.08	322.11	1
662332	3934.98	22.35	2.78	25.13	325.84	1

n77(3700-3980) 80M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	22.33	2.78	25.11	324.34	1
656000	3840	22.31	2.78	25.09	322.85	1
662666	3939.99	22.27	2.78	25.05	319.89	1

n77(3700-3980) 70M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649000	3735	22.32	2.78	25.1	323.59	1
656000	3840	22.41	2.78	25.19	330.37	1
663000	3945	22.26	2.78	25.04	319.15	1

n77(3700-3980) 60M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	22.28	2.78	25.06	320.63	1
656000	3840	22.31	2.78	25.09	322.85	1
663332	3949.98	22.32	2.78	25.1	323.59	1

n77(3700-3980) 50M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648334	3725.01	22.4	2.78	25.18	329.61	1
656000	3840	22.41	2.78	25.19	330.37	1
663666	3954.99	22.24	2.78	25.02	317.69	1

n77(3700-3980) 40M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	22.42	2.78	25.2	331.13	1
656000	3840	22.37	2.78	25.15	327.34	1
664000	3960	22.31	2.78	25.09	322.85	1

n77(3700-3980) 30M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647668	3715.02	22.28	2.78	25.06	320.63	1
656000	3840	22.39	2.78	25.17	328.85	1
664332	3964.98	22.3	2.78	25.08	322.11	1

n77(3700-3980) 20M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	22.36	2.78	25.14	326.59	1
656000	3840	22.34	2.78	25.12	325.09	1
664666	3969.99	22.25	2.78	25.03	318.42	1

n77(3700-3980) 10M CP-OFDM QPSK For FCC (MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	22.42	2.78	25.2	331.13	1
656000	3840	22.42	2.78	25.2	331.13	1
664666	3969.99	22.29	2.78	25.07	321.37	1

n78 100M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.25	2.23	24.48	280.54	1

n78 100M CP-OFDM 16QAM For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.81	2.23	24.04	253.51	1

n78 100M CP-OFDM 64QAM For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	19.97	2.23	22.2	165.96	1

n78 100M CP-OFDM 256QAM For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	17.27	2.23	19.5	89.13	1

n78 90M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	22.21	2.23	24.44	277.97	1
633334	3500.01	22.23	2.23	24.46	279.25	1
633666	3504.99	22.19	2.23	24.42	276.69	1

n78 80M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	22.14	2.23	24.37	273.53	1
633334	3500.01	22.08	2.23	24.31	269.77	1
634000	3609.99	22.15	2.23	24.38	274.16	1

n78 70M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632334	3485.01	22.14	2.23	24.37	273.53	1
633334	3500.01	22.13	2.23	24.36	272.9	1
634332	3514.98	22.14	2.23	24.37	273.53	1

n78 60M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	22.15	2.23	24.38	274.16	1
633334	3500.01	22.09	2.23	24.32	270.4	1
634666	3519.99	22.1	2.23	24.33	271.02	1

n78 50M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	22.07	2.23	24.3	269.15	1
633334	3500.01	22.16	2.23	24.39	274.79	1
635000	3525	22.16	2.23	24.39	274.79	1

n78 40M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	22.16	2.23	24.39	274.79	1
633334	3500.01	22.18	2.23	24.41	276.06	1
635332	3529.98	22.17	2.23	24.4	275.42	1

n78 30M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631000	3465	22.11	2.23	24.34	271.64	1
633334	3500.01	22.16	2.23	24.39	274.79	1
635666	3534.99	22.1	2.23	24.33	271.02	1

n78 20M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.2	2.23	24.43	277.33	1
633334	3500.01	22.19	2.23	24.42	276.69	1
636000	3540	22.12	2.23	24.35	272.27	1

n78 10M CP-OFDM QPSK For FCC(MIMO)						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	22.15	2.23	24.38	274.16	1
633334	3500.01	22.11	2.23	24.34	271.64	1
636332	3544.98	22.1	2.23	24.33	271.02	1

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

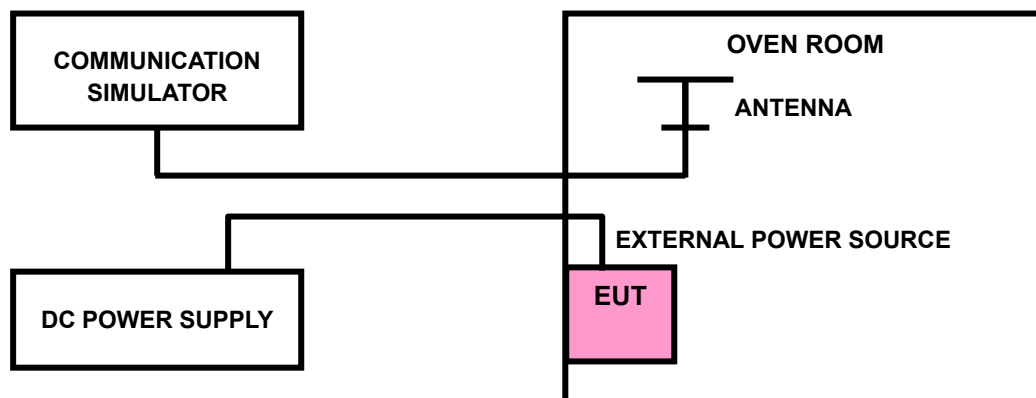
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected to the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





Test Report No.: W7L-P24050018RF11

3.2.4 TEST RESULTS

Please Refer to Appendix L.

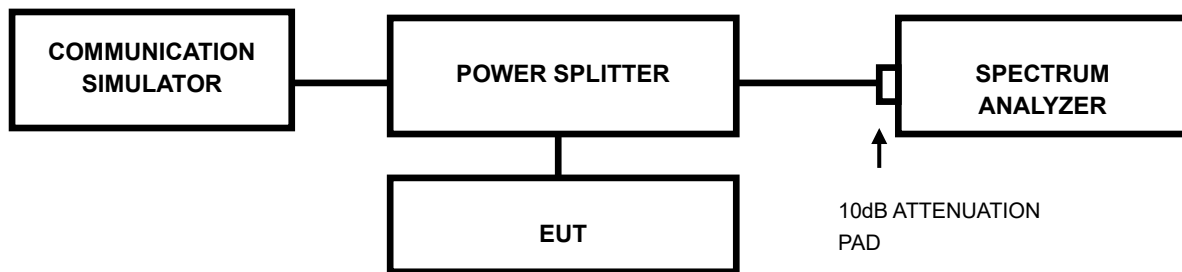
Note: VL = Low voltage(3.6V); VN/NV = Normal voltage(3.7V); VH = High voltage(4.2V);
NT = Normal temperature (25°C)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



Test Report No.: W7L-P24050018RF11

3.3.4 TEST RESULTS

Please Refer to Appendix L.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.(n2/n5/n25/n66)

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. (n12/ n71)

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.(n7/n41)

According to FCC 27.53(a)(4) specified that For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (n30)

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;



Test Report No.: W7L-P24050018RF11

(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

According to FCC 27.53(l)(2) specified that For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.(n77/n78)

According to FCC 27.53(n)(2) specified that For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

N14:

According to FCC part 90.543(e) shall be tested the emission mask.

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

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

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

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

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.