

FCC TEST REPORT

(PART 27)

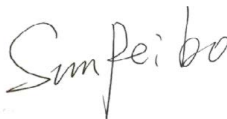
Applicant:	PepperlFuchs SE
Address:	Lilienthalstrasse 200, 68307, Mannheim, Germany

Manufacturer or Supplier:	PepperlFuchs SE
Address:	Lilienthalstrasse 200, 68307, Mannheim, Germany
Product:	Smart-Ex 203
Brand Name:	PEPPERL+FUCHS
Model Name:	Smart-Ex 203
FCC ID:	2AXZAS203GR01
Date of tests:	Nov. 22, 2024 ~ Jul. 31, 2025

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

☒ FCC Part 2	☒ ANSI/TIA/EIA-603-E
☒ FCC Part 27	☒ ANSI C63.26-2015
☒ ANSI/TIA/EIA-603-D	

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

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Jul. 31, 2025	Date: Jul. 31, 2025

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.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2411180418RF06	Original release	Jul. 31, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§27.50(h)(2) §27.50(d)(4)	Equivalent Isotropically Radiated Power (Band 7C) (Band 12B) (Band 38C) (Band 41C) (Band 66B) (Band 66C)	Compliance	A
§2.1055 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Band Edge Measurements (Band 7C) (Band 12B) (Band 38C) (Band 41C) (Band 66B) (Band 66C)	Compliance	A
§2.1051 §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Spurious Emissions (Band 7C) (Band 12B) (Band 38C) (Band 41C) (Band 66B) (Band 66C)	Compliance	A
§2.1053 §27.53(g) §27.53(h) §27.53(m)(4)(6)	Radiated Spurious Emissions (Band 7C) (Band 12B) (Band 38C) (Band 41C) (Band 66B) (Band 66C)	Compliance	A
NA	Peak to average ratio	Compliance	A

*Test Lab Information Reference

Lab A:

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

Lab Address:

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

Accredited Test Lab Cert 6613.01

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

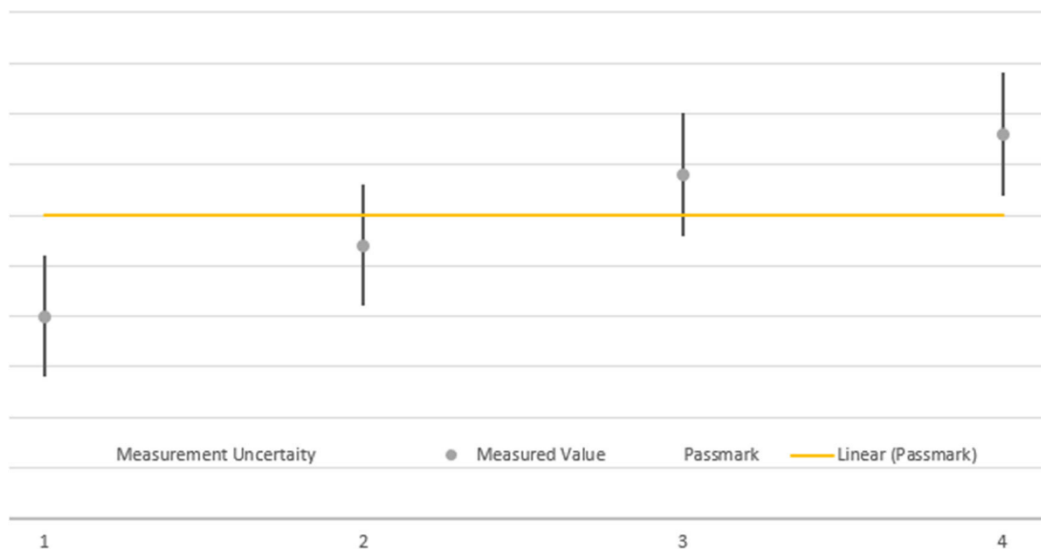


1.1 MEASUREMENT UNCERTAINTY

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 $k=2$.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



1.2 TEST SITE AND INSTRUMENTS

#1

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.29,24	Aug.28,26
Pre-Amplifier	R&S	SCU08F1	101028	Sep.15,24	Sep.14,26
Vector Signal Generator	R&S	SMBV100B	102176	Feb.15,24	Feb.14,26
Signal Generator	R&S	SMB100A	182185	Feb.15,24	Feb.14,26
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.24,24	Feb.23,26
EMI TEST Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.27,24	Feb.26,26
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.21,24	Aug.20,26
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.22,24	Feb.21,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.21,24	Aug.20,26
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,24	Feb.21,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.26,24	Jun.25,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Sep.30,24	Sep.29,26
DC Source	HYELEC	HY3010B	551016	Aug.30,24	Aug.29,26
Hygrothermograph	DELI	20210528	SZ014	Sep.05,24	Sep.04,26
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	Oct.25,24	Apr.24,25
CABLE	R&S	W13.02	N/A	Apr.24,25	Oct.23,25
CABLE	R&S	W12.14	N/A	Oct.25,24	Apr.24,25
CABLE	R&S	W12.14	N/A	Apr.24,25	Oct.23,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.25,24	Apr.24,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.24,25	Oct.23,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.25,24	Apr.24,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.24,25	Oct.23,25
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

#2

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 19,24	Feb. 18,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 18,25	Feb. 17,26
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.13,24	May.12,25

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

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

Tel: +86 (0557) 368 1008



BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF06

EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.12,25	May.11,26
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,24	Sep.01,25
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 04,24	Mar. 03,25
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 03,25	Mar. 02,26
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 04,24	Mar. 03,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 03,25	Mar. 02,26
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40- K-SG/QMS- 00361	15433	Aug. 22, 24	Aug. 21, 25
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 13,24	Feb. 12,25
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 12,25	Feb. 11,26
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.09,25	May.08,26
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,25	May.08,26
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 19,24	Feb.18,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 18,25	Feb.17,26
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143- 1216	May. 18,23	May. 17,26
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	1505	May. 05,24	May. 04,25
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 04,25	May. 03,26
Power Meter	Anritsu	ML2495A	1506002	Feb. 20,24	Feb. 19,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 19,25	Feb. 18,26
Power Sensor	Anritsu	MA2411B	1339352	May. 05,24	May. 04,25
Power Sensor	Anritsu	MA2411B	1339352	May. 04,25	May. 03,26
Temperature Chamber	ESPEC	SH-242	93000855	May. 10,24	May. 09,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 09,25	May. 08,26
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 16,24	Feb. 15,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 15,25	Feb. 14,26
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,24	May.09,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.09,25	May.08,26
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 22,24	Aug. 21,25

NOTE:

1. The calibration interval of the above test instruments is 12/24/36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart-Ex 203	
BRAND NAME	PEPPERL+FUCHS	
MODEL NAME	Smart-Ex 203	
NOMINAL VOLTAGE	5.4Vdc (adapter or host equipment) 3.8Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM,256QAM
FREQUENCY RANGE	LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz	2505.5MHz ~ 2560MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+10MHz	2507.5MHz ~ 2564.7MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+15MHz	2507.5MHz ~ 2562.5MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+20MHz	2507.8MHz ~ 2560MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	2510MHz ~ 2564.5MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+15MHz	2510MHz ~ 2562.2MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+20MHz	2510MHz ~ 2560MHz
	LTE Band CA_12B Channel Bandwidth: 5MHz+5MHz	701.5MHz ~ 713.5MHz
	LTE Band CA_12B Channel Bandwidth: 5MHz+10MHz	701.8MHz ~ 711MHz
	LTE Band CA_38C Channel Bandwidth: 15MHz+15MHz	2577.5MHz ~ 2612.5MHz
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	2580MHz ~ 2610MHz
	LTE Band CA_41C Channel Bandwidth: 5MHz+20MHz	2499.3MHz ~ 2680MHz
	LTE Band CA_41C Channel Bandwidth: 10MHz+15MHz	2501.3MHz ~ 2682.5MHz



	LTE Band CA_41C Channel Bandwidth: 10MHz+20MHz	2501.5MHz ~ 2680MHz
	LTE Band CA_41C Channel Bandwidth:15MHz+10MHz	2503.5MHz ~ 2684.7MHz
	LTE Band CA_41C Channel Bandwidth15MHz+15MHz	2496MHz ~ 2682.5MHz
	LTE Band CA_41C Channel Bandwidth: 15MHz+20MHz	2503.8MHz ~ 2680MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+5MHz	2506MHz ~ 2686.7MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+10MHz	2506MHz ~ 2684.5MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+15MHz	2506MHz ~ 2682.2MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+20MHz	2506MHz ~ 2680MHz
	LTE Band CA_42C Channel Bandwidth: 5MHz+20MHz	3453.3MHz ~ 3540MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +5MHz	3460MHz ~ 3546.7MHz
	LTE Band CA_42C Channel Bandwidth: 10MHz +20MHz	3455.5MHz ~ 3540MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +10MHz	3460MHz ~ 3544.5MHz
	LTE Band CA_42C Channel Bandwidth: 15MHz +20MHz	3457.8MHz ~ 3540MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +15MHz	3460MHz ~ 3542.2MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +20MHz	3460MHz ~ 3540MHz
	LTE Band CA_66B Channel Bandwidth: 10MHz+10MHz	1715MHz ~ 1775MHz
	LTE Band CA_66B Channel Bandwidth: 15MHz+5MHz	1717.5MHz ~ 1777MHz
	LTE Band CA_66B Channel Bandwidth: 5MHz+15MHz	1713MHz ~ 1772.5MHz



	LTE Band CA_66B Channel Bandwidth: 10MHz+5MHz	1715MHz ~ 1777.2MHz
	LTE Band CA_66B Channel Bandwidth: 5MHz+10MHz	1712.8MHz ~ 1775MHz
	LTE Band CA_66B Channel Bandwidth: 5MHz+5MHz	1712.5MHz ~ 1777.5MHz
	LTE Band CA_66C Channel Bandwidth: 20MHz+20MHz	1720MHz ~ 1770MHz
	LTE Band CA_66C Channel Bandwidth: 20MHz+15MHz	1720MHz ~ 1772.2MHz
	LTE Band CA_66C Channel Bandwidth: 15MHz+20MHz	1717.8MHz ~ 1770MHz
	LTE Band CA_66C Channel Bandwidth: 20MHz+10MHz	1720MHz ~ 1774.5MHz
	LTE Band CA_66C Channel Bandwidth: 10MHz+20MHz	1715.5MHz ~ 1770MHz
	LTE Band CA_66C Channel Bandwidth: 15MHz+15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band CA_66C Channel Bandwidth: 15MHz+10MHz	1717.5MHz ~ 1774.7MHz
	LTE Band CA_66C Channel Bandwidth: 20MHz+5MHz	1715.3MHz ~ 1772.5MHz
	LTE Band CA_66C Channel Bandwidth: 10MHz+15MHz	1720MHz ~ 1776.7MHz
	LTE Band CA_66C Channel Bandwidth: 5MHz+20MHz	1713.3MHz ~ 1770MHz
	CA	CA_12B CA_7C CA_38C CA_41C CA_42C CA_66B CA_66C
MAX. EIRP or EPR POWER	LTE Band CA_7C Channel Bandwidth: 20MHz+20MHz	279.25mW
	LTE Band CA_7C Channel Bandwidth: 20MHz+15MHz	266.69mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+20MHz	264.24mW



	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	270.40mW
	LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz	267.30mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+15MHz	272.27mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+10MHz	272.27mW
	LTE Band CA_12B Channel Bandwidth: 5MHz+5MHz	63.10mW
	LTE Band CA_12B Channel Bandwidth: 5MHz+10MHz	66.07mW
	LTE Band CA_38C Channel Bandwidth: 15MHz+15MHz	309.74mW
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	319.89mW
	LTE Band CA_41C Channel Bandwidth: 20M+20M	242.66mW
	LTE Band CA_41C Channel Bandwidth: 20M+15M	230.67mW
	LTE Band CA_41C Channel Bandwidth: 15M+20M	232.27mW
	LTE Band CA_41C Channel Bandwidth: 20M+10M	229.61mW
	LTE Band CA_41C Channel Bandwidth: 10M+20M	235.50mW
	LTE Band CA_41C Channel Bandwidth: 15M+15M	231.21mW
	LTE Band CA_41C Channel Bandwidth: 15M+10M	233.35mW
	LTE Band CA_41C Channel Bandwidth: 10M+15M	233.35mW
	LTE Band CA_41C Channel Bandwidth: 20M+5M	233.35mW
	LTE Band CA_41C Channel Bandwidth: 5M+20M	230.67mW
	LTE Band CA_42C Channel Bandwidth: 5MHz+20MHz	185.78mW



	LTE Band CA_42C Channel Bandwidth: 20MHz +5MHz	182.39mW
	LTE Band CA_42C Channel Bandwidth: 10MHz +20MHz	187.93mW
	LTE Band CA_42C Channel Bandwidth: 20MHz +10MHz	184.08mW
	LTE Band CA_42C Channel Bandwidth: 15MHz +20MHz	184.08mW
	LTE Band CA_42C Channel Bandwidth: 20MHz +15MHz	187.50mW
	LTE Band CA_42C Channel Bandwidth: 20MHz +20MHz	188.36mW
	LTE Band CA_66B Channel Bandwidth: 10MHz+10MHz	275.42mW
	LTE Band CA_66B Channel Bandwidth: 15MHz+5MHz	272.27mW
	LTE Band CA_66B Channel Bandwidth: 5MHz+15MHz	278.61mW
	LTE Band CA_66B Channel Bandwidth: 10MHz+5MHz	279.25mW
	LTE Band CA_66B Channel Bandwidth: 5MHz+10MHz	278.61mW
	LTE Band CA_66B Channel Bandwidth: 5MHz+5MHz	277.97mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+20MHz	284.45mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+15MHz	272.27mW
	LTE Band CA_66C Channel Bandwidth: 15MHz+20MHz	269.15mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+10MHz	268.53mW
	LTE Band CA_66C Channel Bandwidth: 10MHz+20MHz	263.63mW
	LTE Band CA_66C Channel Bandwidth: 15MHz+15MHz	269.77mW



	LTE Band CA_66C Channel Bandwidth: 15MHz+10MHz	275.42mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+5MHz	267.92mW
	LTE Band CA_66C Channel Bandwidth: 10MHz+15MHz	269.15mW
	LTE Band CA_66C Channel Bandwidth: 5MHz+20MHz	266.69mW
EMISSION DESIGNAT	LTE Band CA_7C Channel Bandwidth: 10MHz +20MHz	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +10MHz	QPSK: 23M2G7D
		16QAM: 23M2W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +15MHz	QPSK: 28M4G7D
		16QAM: 28M4W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +20MHz	QPSK: 32M7G7D
		16QAM: 32M7W7D
	LTE Band CA_7C Channel Bandwidth: 20MHz +10MHz	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE Band CA_7C Channel Bandwidth: 20MHz +15MHz	QPSK: 32M7G7D
		16QAM: 32M7W7D
	LTE Band CA_7C Channel Bandwidth: 20MHz +20MHz	QPSK: 37M6G7D
		16QAM: 37M6W7D
	LTE Band CA_12B Channel Bandwidth: 5MHz +10MHz	QPSK: 13M9G7D
		16QAM: 13M9W7D
	LTE Band CA_12B Channel Bandwidth: 5MHz +5MHz	QPSK: 9M30G7D
		16QAM: 9M29W7D
	LTE Band CA_38C Channel Bandwidth: 15MHz +15MHz	QPSK: 28M5G7D
		16QAM: 28M5W7D
	LTE Band CA_38C Channel Bandwidth: 20MHz +20MHz	QPSK: 37M7G7D
		16QAM: 37M7W7D
	LTE Band CA_41C Channel Bandwidth: 10MHz+15MHz	QPSK: 23M3G7D
		16QAM: 23M2W7D
	LTE Band CA_41C Channel Bandwidth: 10MHz+20MHz	QPSK: 27M8G7D
		16QAM: 27M8W7D



	LTE Band CA_41C Channel Bandwidth: 15MHz+10MHz	QPSK: 23M2G7D
		16QAM: 23M2W7D
	LTE Band CA_41C Channel Bandwidth: 15MHz+15MHz	QPSK: 28M4G7D
		16QAM: 28M4W7D
	LTE Band CA_41C Channel Bandwidth: 15MHz+20MHz	QPSK: 32M7G7D
		16QAM: 32M7W7D
	LTE Band CA_41C Channel Bandwidth: 20MHz+10MHz	QPSK: 27M9G7D
		16QAM: 27M8W7D
	LTE Band CA_41C Channel Bandwidth: 20MHz+15MHz	QPSK: 32M8G7D
		16QAM: 32M8W7D
	LTE Band CA_41C Channel Bandwidth: 20MHz+20MHz	QPSK: 37M7G7D
		16QAM: 37M7W7D
	LTE Band CA_41C Channel Bandwidth: 20MHz+5MHz	QPSK: 23M0G7D
		16QAM: 23M0W7D
	LTE Band CA_41C Channel Bandwidth: 5MHz+20MHz	QPSK: 23M0G7D
		16QAM: 23M0W7D
	LTE Band CA_42C Channel Bandwidth: 10MHz+20MHz	QPSK: 28M0G7D
		16QAM: 27M9W7D
	LTE Band CA_42C Channel Bandwidth: 15MHz+20MHz	QPSK: 32M9G7D
		16QAM: 32M8W7D
	LTE Band CA_42C Channel Bandwidth: 20MHz+10MHz	QPSK: 28M0G7D
		16QAM: 28M0W7D
	LTE Band CA_42C Channel Bandwidth: 20MHz+15MHz	QPSK: 32M9G7D
		16QAM: 32M9W7D
	LTE Band CA_42C Channel Bandwidth: 20MHz+20MHz	QPSK: 37M7G7D
		16QAM: 37M7W7D
	LTE Band CA_42C Channel Bandwidth: 20MHz+5MHz	QPSK: 23M1G7D
		16QAM: 23M1W7D
	LTE Band CA_42C Channel Bandwidth: 5MHz+20MHz	QPSK: 23M1G7D
		16QAM: 23M1W7D
	LTE Band CA_66B Channel Bandwidth: 10MHz+10MHz	QPSK: 18M9G7D
		16QAM: 18M9W7D



	LTE Band CA_66B Channel Bandwidth: 10MHz+5MHz	QPSK: 14M0G7D
		16QAM: 14M0W7D
	LTE Band CA_66B Channel Bandwidth: 15MHz+5MHz	QPSK: 18M3G7D
		16QAM: 18M3W7D
	L LTE Band CA_66B Channel Bandwidth: 5MHz+10MHz	QPSK: 14M0G7D
		16QAM: 14M0W7D
	LTE Band CA_66B Channel Bandwidth: 5MHz+15MHz	QPSK: 18M3G7D
		16QAM: 18M3W7D
	LTE Band CA_66B Channel Bandwidth: 5MHz+5MHz	QPSK: 9M30G7D
		16QAM: 9M30W7D
	LTE Band CA_66C Channel Bandwidth: 10MHz+15MHz	QPSK: 23M2G7D
		16QAM: 23M2W7D
	LTE Band CA_66C Channel Bandwidth: 10MHz+20MHz	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE Band CA_66C Channel Bandwidth: 15MHz+10MHz	QPSK: 23M2G7D
		16QAM: 23M2W7D
	LTE Band CA_66C Channel Bandwidth: 15MHz+15MHz	QPSK: 28M4G7D
		16QAM: 28M3W7D
	LTE Band CA_66C Channel Bandwidth: 15MHz+20MHz	QPSK: 32M8G7D
		16QAM: 32M7W7D
	LTE Band CA_66C Channel Bandwidth: 20MHz+10MHz	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE Band CA_66C Channel Bandwidth: 20MHz+15MHz	QPSK: 32M7G7D
		16QAM: 32M7W7D
	LTE Band CA_66C Channel Bandwidth: 20MHz+20MHz	QPSK: 37M6G7D
		16QAM: 37M5W7D
	LTE Band CA_66C Channel Bandwidth: 20MHz+5MHz	QPSK: 23M0G7D
		16QAM: 22M9W7D
	LTE Band CA_66C Channel Bandwidth: 5MHz+20MHz	QPSK: 23M0G7D
		16QAM: 23M0W7D
ANTENNA GAIN	LTE B7C	0.74dBi
	LTE B12B	-3.00dBi
	LTE B38C	0.74dBi
	LTE B41C	0.74dBi

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	LTE B42C	-0.89dBi
	LTE B66B/B66C	0.28dBi
ANTENNA TYPE	PIFA	
HW VERSION	DVT2	
SW VERSION	S203.14.00.00.056.4_USERDEBUG	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1.2 meter	
EXTREME TEMPERATURE	-20°C-55°C	
EXTREME VOLTAGE	3.4V-4.35V	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

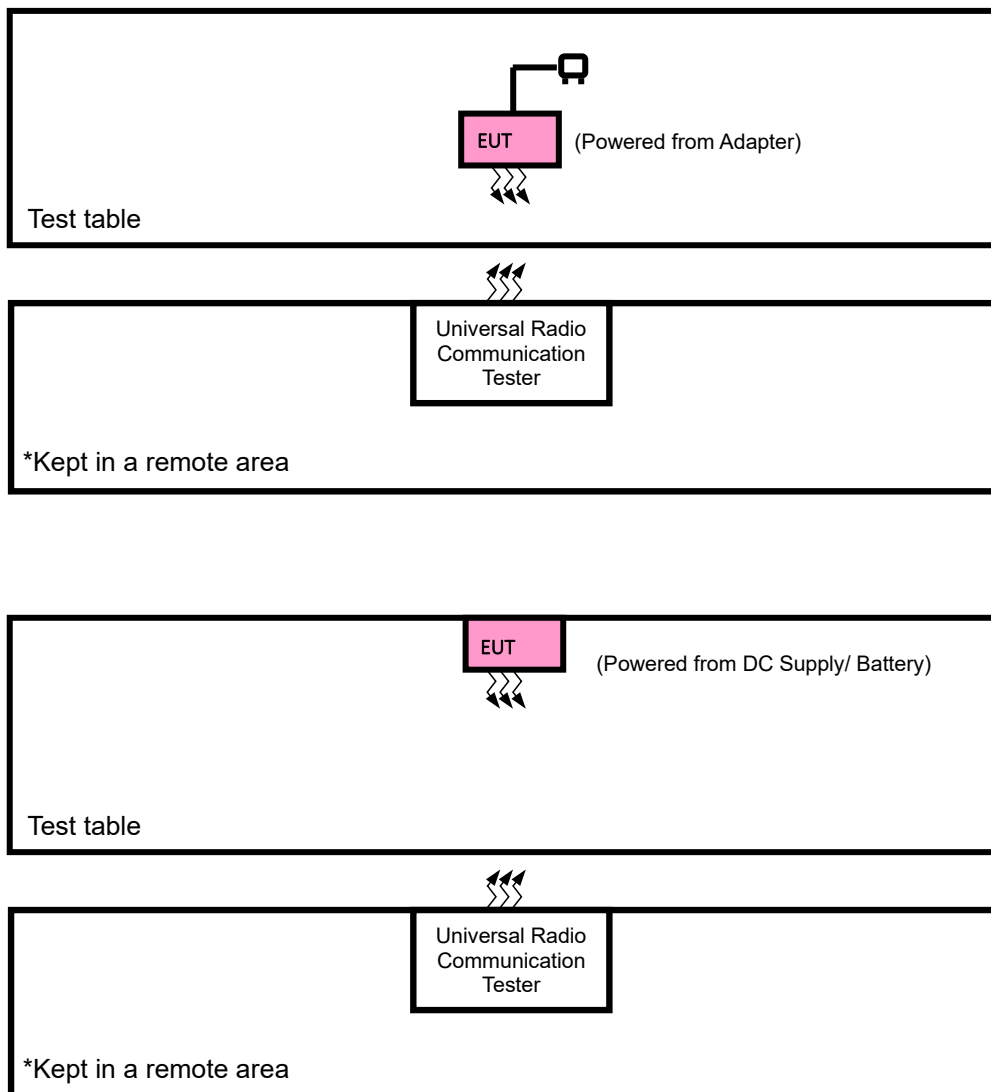
MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 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.
- For Band Edge and Emission Mask: The all BW combinations were tested. Combination pairs of the same BW are considered generally equivalent. The RB combinations were selected such that the signal is active closest to the band limit, as this is the worst case.
- For Out of Band Emissions: The all combination was tested. The highest power RB combination was selected as worst case.
- List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter	N/A	Shenzhen ABP Technology Co., Ltd.	NFC05B5403C	I/P: 100-240Vac, 0.5A, O/P: 5.4Vdc, 3A, 16.2W
Battery	Pepper+Fuchs	Shenzhen Cholipower Technology Co.,Ltd.	Ex-BP S203	Capacity: 3.8Vdc, 4500mAh
USB Cable	Delock	TRAGANT Handels- und Beteiligungs GmbH	35156	Signal Line, 1.2meter

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	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A
2	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable, 1.0m;
2	USB Line: Unshielded, Detachable, 1.2m;

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 with LTE link
B	EUT + DC Supply/ Battery with LTE link



LTE BAND CA_7C MODE								
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM	75RB/ 0RB Offset	50RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	20850 to 21152	21048 to 21350	Low	20MHz+20MHz	QPSK, 16QAM	1RB/ 25RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz	QPSK, 16QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCTED EMISSION	20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	20850 to 21152	21048 to 21350	Middle	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset

Note:

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

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

Tel: +86 (0557) 368 1008



BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF06

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

LTE BAND CA_12B MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	ERP	23035 to 23107	23083 to 23155	Low, Middle, High	5MHz+5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		23038 to 23058	23110 to 23130	Low, Middle, High	5MHz+10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	23035 to 23107	23083 to 23155	Low, Middle, High	5MHz+5MHz	QPSK, 16QAM	RB/ 24RB Offset	1RB/ 0RB Offset
		23038 to 23058	23110 to 23130	Low, Middle, High	5MHz+10MHz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
A	BAND EDGE	23038 to 23058	23110 to 23130	Low	5MHz+10MHz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
				High	5MHz+10MHz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							RB/ 24RB Offset	1RB/ 0RB Offset
A	CONDUCTED EMISSION	23038 to 23058	23110 to 23130	Low, Middle, High	5MHz+10MHz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	23038 to 23058	23110 to 23130	Middle	5MHz+10MHz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset

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



LTE BAND CA_38C MODE								
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	37825 to 38025	37975 to 38175	Low, Middle, High	15MHz+15M Hz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		37850 to 37952	38048 to 38150	Low, Middle, High	20MHz+20M Hz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	37825 to 38025	37975 to 38175	Low, Middle, High	15MHz+15M Hz	QPSK, 16QAM	RB/ 24RB Offset	1RB/ 0RB Offset
		37850 to 37952	38048 to 38150	Low, Middle, High	20MHz+20M Hz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
A	BAND EDGE	37850 to 37952	38048 to 38150	Low	20MHz+20M Hz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
				High	20MHz+20M Hz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							RB/ 24RB Offset	1RB/ 0RB Offset
A	CONDUCTED EMISSION	37850 to 37952	38048 to 38150	Low, Middle, High	20MHz+20M Hz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	37850 to 37952	38048 to 38150	Middle	20MHz+20M Hz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset

Note:

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



LTE BAND CA_41C MODE								
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	39750 to 41341	39921 to 41512	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		39728 to 41319	39899 to 41490	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		39750 to 41391	39894 to 41535	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		39705 to 41346	39849 to 41490	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		39725 to 41365	39875 to 41515	Low, Middle, High	15MHz +15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		39725 to 41417	39845 to 41537	Low, Middle, High	15MHz +10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB / 74RB Offset	1RB / 0RB Offset
		39703 to 41395	39823 to 41515	Low, Middle, High	10MHz +15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		39750 to 41440	39867 to 41557	Low, Middle, High	20MHz +5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		39683 to 41373	39800 to 41490	Low, Middle, High	5MHz +20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		39750 to 41292	39948 to 41490	Low, Middle, High	20MHz +20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB / 99RB Offset 1RB / 0RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	39750 to 41341	39921 to 41512	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		39728 to 41319	39899 to 41490	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		39750 to 41391	39894 to 41535	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		39705 to 41346	39849 to 41490	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		39725 to 41365	39875 to 41515	Low, Middle, High	15MHz +15MHz	QPSK, 16QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		39725 to 41417	39845 to 41537	Low, Middle, High	15MHz +10MHz	QPSK, 16QAM	75RB/ 0RB Offset	50RB/ 0RB Offset
		39703 to 41395	39823 to 41515	Low, Middle, High	10MHz +15MHz	QPSK, 16QAM	50RB/ 0RB Offset	75RB/ 0RB Offset
		39750 to 41440	39867 to 41557	Low, Middle, High	20MHz +5MHz	QPSK, 16QAM	100RB/ 0RB Offset	25RB/ 0RB Offset



		39683 to 41373	39800 to 41490	Low, Middle, High	5MHz +20MHz	QPSK, 16QAM	25RB/ 0RB Offset	100RB/ 0RB Offset
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A	OCCUPIED BANDWIDTH	39750 to 41292	39948 to 41490	Low, Middle, High	20MHz +20MHz	QPSK, 16QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	39750 to 41292	39948 to 41490	Low	20MHz+20MHz	QPSK, 16QAM,	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz		1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCTED EMISSION	39750 to 41292	39948 to 41490	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	39750 to 41292	39948 to 41490	Middle	20MHz+20MHz	QPSK	1RB / 99RB Offset	1RB/ 0RB Offset

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



LTE BAND CA_66B MODE								
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	132022 to 132523	132121 to 132622	Low, Middle, High	10MHz+10MHz	QPSK, 16QAM, 64QAM,256QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		132047 to 132549	132140 to 132642	Low, Middle, High	15MHz+5MHz	QPSK, 16QAM, 64QAM,256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132002to 132504	132095 to 132597	Low, Middle, High	5MHz+15MHz	QPSK, 16QAM, 64QAM,256QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		132022 to 132572	132094 to 132644	Low, Middle, High	10MHz+5MHz	QPSK, 16QAM, 64QAM,256QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		132022to 132572	132094 to 132644	Low, Middle, High	5MHz +10MHz	QPSK, 16QAM, 64QAM,256QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		131997 to 132599	132045 to 132647	Low, Middle, High	5MHz +5MHz	QPSK, 16QAM, 64QAM,256QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	132022 to 132523	132121 to 132622	Low, Middle, High	10MHz+10MHz	QPSK, 16QAM	1RB/ 50RB Offset	1RB/ 0RB Offset
		132047 to 132549	132140 to 132642	Low, Middle, High	15MHz+5MHz	QPSK, 16QAM	1RB/ 75RB Offset	1RB/ 25RB Offset
		132002to 132504	132095 to 132597	Low, Middle, High	5MHz+15MHz	QPSK, 16QAM	1RB/ 25RB Offset	1RB/ 75RB Offset
		132022 to 132572	132094 to 132644	Low, Middle, High	10MHz+5MHz	QPSK, 16QAM	1RB/ 50RB Offset	1RB/ 25RB Offset
		132022to 132572	132094 to 132644	Low, Middle, High	5MHz +10MHz	QPSK, 16QAM	1RB/ 25RB Offset	1RB/ 50RB Offset
		131997 to 132599	132045 to 132647	Low, Middle, High	5MHz +5MHz	QPSK, 16QAM	1RB/ 25RB Offset	1RB/ 25RB Offset
A	BAND EDGE	132022 to 132523	132121 to 132622	Low	10MHz+10MHz	QPSK, 16QAM	1RB/ 0RB Offset	50RB/ 0RB Offset
							1RB/ 49RB Offset	50RB/ 0RB Offset
							50RB/ 0RB Offset	50RB/ 0RB Offset
				High	10MHz+10MHz		1RB/ 0RB Offset	50RB/ 0RB Offset
							1RB/ 49RB Offset	50RB/ 0RB Offset
							50RB/ 0RB Offset	50RB/ 0RB Offset
A	CONDUCTED EMISSION	132022 to 132523	132121 to 132622	Low, Middle, High	10MHz+10MHz	QPSK, 16QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	132022 to 132523	132121 to 132622	Middle	10MHz+10MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset

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



LTE BAND CA_66C MODE								
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	132072 to 132374	132270 to 132572	Low, Middle, High	20MHz+20MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132423	132243 to 132594	Low, Middle, High	20MHz+15MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 99RB Offset	1RB/ 0RB Offset
		132050to 132401	132221 to 132572	Low, Middle, High	15MHz+20MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132072 to 132473	132216 to 132617	Low, Middle, High	20MHz+10MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 99RB Offset	1RB/ 0RB Offset
		132027 to 132428	132171 to 132572	Low, Middle, High	10MHz+20MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 49RB Offset	1RB/ 0RB Offset
		132047 to 132447	132197 to 132597	Low, Middle, High	15MHz+15MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132047 to 132499	132167 to 132619	Low, Middle, High	15MHz+10MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132025 to 132477	132145 to 132597	Low, Middle, High	10MHz+15MH z	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 49RB Offset	1RB/ 0RB Offset
		132072 to 132522	132189 to 132639	Low, Middle, High	20MHz +5MHz	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 99RB Offset	1RB/ 0RB Offset
		132005 to 132455	132122 to 132572	Low, Middle, High	5MHz +20MHz	QPSK, 16QAM, 64QAM,256Q AM	1RB/ 24RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDT H	132072 to 132374	132270 to 132572	Low, Middle, High	20MHz+20MH z	QPSK, 16QAM,	100RB/ 0RB Offset	100RB/ 0RB Offset
		132072 to 132423	132243 to 132594	Low, Middle, High	20MHz+15MH z	QPSK, 16QAM,	100RB/ 0RB Offset	75RB/ 0RB Offset
		132050to 132401	132221 to 132572	Low, Middle, High	15MHz+20MH z	QPSK, 16QAM,	75RB/ 0RB Offset	100RB/ 0RB Offset
		132072 to 132473	132216 to 132617	Low, Middle, High	20MHz+10MH z	QPSK, 16QAM,	100RB/ 0RB Offset	50RB/ 0RB Offset
		132027 to 132428	132171 to 132572	Low, Middle, High	10MHz+20MH z	QPSK, 16QAM,	50RB/ 0RB Offset	100RB/ 0RB Offset
		132047 to 132447	132197 to 132597	Low, Middle, High	15MHz+15MH z	QPSK, 16QAM,	75RB/ 0RB Offset	75RB/ 0RB Offset
A	OCCUPIED BANDWIDT H	132047 to 132499	132167 to 132619	Low, Middle, High	15MHz+10MH z	QPSK, 16QAM,	75RB/ 0RB Offset	50RB/ 0RB Offset



		132025 to 132477	132145 to 132597	Low, Middle, High	10MHz+15MHz	QPSK, 16QAM,	50RB/ 0RB Offset	75RB/ 0RB Offset
		132072 to 132522	132189 to 132639	Low, Middle, High	20MHz +5MHz	QPSK, 16QAM,	100RB/ 0RB Offset	25RB/ 0RB Offset
		132005 to 132455	132122 to 132572	Low, Middle, High	5MHz +20MHz	QPSK, 16QAM,	25RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	132072 to 132374	132270 to 132572	Low	20MHz+20MHz	QPSK, 16QAM,	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz		1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCTED EMISSION	132072 to 132374	132270 to 132572	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM,	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	39750 to 41292	39948 to 41490	Middle	20MHz+20MHz	QPSK,	1RB/ 99RB Offset	1RB/ 0RB Offset

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

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.4/3.8/4,35V By Battery	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
CONDUCTED EMISSION	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu



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 27

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

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.”

According to the specific rule Part 27.50(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to the specific rule Part 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

3.1.2 TEST PROCEDURES

EIRP 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.

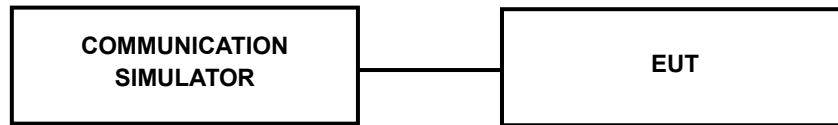
CONDUCTED POWER MEASUREMENT:

- 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:



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



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

CA_7C ANT0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	21048	2529.8	QPSK	1	99	1	0	23.61
				16QAM	1	99	1	0	22.73
				64QAM	1	99	1	0	21.69
				256QAM	1	99	1	0	18.60
21001	2525.1	21199	2544.9	QPSK	1	99	1	0	23.64
				16QAM	1	99	1	0	22.70
				64QAM	1	99	1	0	21.73
				256QAM	1	99	1	0	18.59
21152	2540.2	21350	2560	QPSK	1	99	1	0	23.72
				16QAM	1	99	1	0	22.81
				64QAM	1	99	1	0	21.72
				256QAM	1	99	1	0	18.88
Combination 20MHz+15MHz (100RB+75RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	21021	2527.1	QPSK	1	99	1	0	23.37
				16QAM	1	99	1	0	22.71
				64QAM	1	99	1	0	21.55
				256QAM	1	99	1	0	18.51
21026	2527.6	21197	2544.7	QPSK	1	99	1	0	23.52
				16QAM	1	99	1	0	22.56
				64QAM	1	99	1	0	21.58
				256QAM	1	99	1	0	18.50
21201	2545.1	21372	2562.2	QPSK	1	99	1	0	23.50
				16QAM	1	99	1	0	22.71
				64QAM	1	99	1	0	21.59
				256QAM	1	99	1	0	18.87
Combination 15MHz+20MHz (75RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20828	2507.8	20999	2524.9	QPSK	1	74	1	0	23.42
				16QAM	1	74	1	0	22.62
				64QAM	1	74	1	0	21.54
				256QAM	1	74	1	0	18.48
21003	2525.3	21174	2542.4	QPSK	1	74	1	0	23.39
				16QAM	1	74	1	0	22.57


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21179	2542.9	21350	2560	64QAM	1	74	1	0	21.59
				256QAM	1	74	1	0	18.50
				QPSK	1	74	1	0	23.48
				16QAM	1	74	1	0	22.68
				64QAM	1	74	1	0	21.65
				256QAM	1	74	1	0	18.75

Combination 20MHz+10MHz (100RB+50RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	20994	2524.4	QPSK	1	99	1	0	23.43
				16QAM	1	99	1	0	22.70
				64QAM	1	99	1	0	21.62
				256QAM	1	99	1	0	18.49
21051	2530.1	21195	2544.5	QPSK	1	99	1	0	23.39
				16QAM	1	99	1	0	22.69
				64QAM	1	99	1	0	21.59
				256QAM	1	99	1	0	18.55
21251	2550.1	21395	2564.5	QPSK	1	99	1	0	23.58
				16QAM	1	99	1	0	22.76
				64QAM	1	99	1	0	21.64
				256QAM	1	99	1	0	18.85

Combination 10MHz+20MHz (50RB+100RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20805	2505.5	20949	2519.9	QPSK	1	49	1	0	23.38
				16QAM	1	49	1	0	22.67
				64QAM	1	49	1	0	21.66
				256QAM	1	49	1	0	18.46
21006	2525.6	21150	2540	QPSK	1	49	1	0	23.53
				16QAM	1	49	1	0	22.69
				64QAM	1	49	1	0	21.58
				256QAM	1	49	1	0	18.46
21206	2545.6	21350	2560	QPSK	1	49	1	0	23.53
				16QAM	1	49	1	0	22.73
				64QAM	1	49	1	0	21.66
				256QAM	1	49	1	0	18.76

Combination 15MHz+15MHz (75RB+75RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20825	2507.5	20975	2522.5	QPSK	1	74	1	0	23.47
				16QAM	1	74	1	0	22.67
				64QAM	1	74	1	0	21.62
				256QAM	1	74	1	0	18.58

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21025	2527.5	21175	2542.5	QPSK	1	74	1	0	23.43
				16QAM	1	74	1	0	22.63
				64QAM	1	74	1	0	21.59
				256QAM	1	74	1	0	18.49
21225	2547.5	21375	2562.5	QPSK	1	74	1	0	23.61
				16QAM	1	74	1	0	22.71
				64QAM	1	74	1	0	21.70
				256QAM	1	74	1	0	18.79
Combination 15MHz+10MHz (75RB+50RB)									
PCC Chann el	PCC Freq uen cy (MHz)	SCC Chann el	SCC Freq uen cy (MHz)	Modulat ion	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20825	2507.5	20945	2519.5	QPSK	1	74	1	0	23.35
				16QAM	1	74	1	0	22.59
				64QAM	1	74	1	0	21.61
				256QAM	1	74	1	0	18.58
21051	2530.1	21171	2542.1	QPSK	1	74	1	0	23.50
				16QAM	1	74	1	0	22.57
				64QAM	1	74	1	0	21.58
				256QAM	1	74	1	0	18.52
21277	2552.7	21397	2564.7	QPSK	1	74	1	0	23.61
				16QAM	1	74	1	0	22.71
				64QAM	1	74	1	0	21.66
				256QAM	1	74	1	0	18.85



CA_12B ANT0									
Combination 5MHz+10MHz (25RB+50RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
23038	701.8	23110	709	QPSK	1	24	1	0	23.24
				16QAM	1	24	1	0	22.58
				64QAM	1	24	1	0	21.11
				256QAM	1	24	1	0	18.55
23048	702.8	23120	710	QPSK	1	24	1	0	23.21
				16QAM	1	24	1	0	22.57
				64QAM	1	24	1	0	21.04
				256QAM	1	24	1	0	18.60
23058	703.8	23130	711	QPSK	1	24	1	0	23.35
				16QAM	1	24	1	0	22.67
				64QAM	1	24	1	0	21.19
				256QAM	1	24	1	0	18.62
Combination 5MHz+5MHz (25RB+25RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
23035	701.5	23083	706.3	QPSK	1	24	1	0	23.13
				16QAM	1	24	1	0	22.51
				64QAM	1	24	1	0	21.01
				256QAM	1	24	1	0	18.49
23071	705.1	23119	709.9	QPSK	1	24	1	0	23.08
				16QAM	1	24	1	0	22.56
				64QAM	1	24	1	0	20.89
				256QAM	1	24	1	0	18.47
23107	708.7	23155	713.5	QPSK	1	24	1	0	23.15
				16QAM	1	24	1	0	22.52
				64QAM	1	24	1	0	21.15
				256QAM	1	24	1	0	18.61



CA_38C Ant0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
37850	2580	38048	2599.8	QPSK	1	99	1	0	24.31
				16QAM	1	99	1	0	23.33
				64QAM	1	99	1	0	22.40
				256QAM	1	99	1	0	19.38
37901	2585.1	38099	2604.9	QPSK	1	99	1	0	24.23
				16QAM	1	99	1	0	23.29
				64QAM	1	99	1	0	22.29
				256QAM	1	99	1	0	19.39
37952	2590.2	38150	2610	QPSK	1	99	1	0	24.18
				16QAM	1	99	1	0	23.22
				64QAM	1	99	1	0	22.20
				256QAM	1	99	1	0	19.31
Combination 15MHz+15MHz (75RB+75RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
37825	2577.5	37975	2592.5	QPSK	1	99	1	0	24.17
				16QAM	1	99	1	0	23.28
				64QAM	1	99	1	0	22.35
				256QAM	1	99	1	0	19.36
37925	2587.5	38075	2602.5	QPSK	1	99	1	0	24.15
				16QAM	1	99	1	0	23.18
				64QAM	1	99	1	0	22.20
				256QAM	1	99	1	0	19.33
38025	2597.5	38175	2612.5	QPSK	1	99	1	0	24.09
				16QAM	1	99	1	0	23.09
				64QAM	1	99	1	0	22.05
				256QAM	1	99	1	0	19.29



CA_41C ANT0

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39750	2506	39948	2525.8	QPSK	1	99	1	0	22.63
				16QAM	1	99	1	0	21.53
				64QAM	1	99	1	0	20.71
				256QAM	1	99	1	0	17.61
40521	2583.1	40719	2602.9	QPSK	1	99	1	0	23.01
				16QAM	1	99	1	0	21.97
				64QAM	1	99	1	0	21.07
				256QAM	1	99	1	0	17.93
41292	2660.2	41490	2680	QPSK	1	99	1	0	23.11
				16QAM	1	99	1	0	22.03
				64QAM	1	99	1	0	21.19
				256QAM	1	99	1	0	18.04

Combination 20MHz+15MHz (100RB+75RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39750	2506	39921	2523.1	QPSK	1	99	1	0	22.60
				16QAM	1	99	1	0	21.43
				64QAM	1	99	1	0	20.59
				256QAM	1	99	1	0	17.52
40546	2585.6	40717	2602.7	QPSK	1	99	1	0	22.88
				16QAM	1	99	1	0	21.94
				64QAM	1	99	1	0	20.97
				256QAM	1	99	1	0	17.92
41341	2665.1	41512	2682.2	QPSK	1	99	1	0	22.89
				16QAM	1	99	1	0	21.93
				64QAM	1	99	1	0	21.13
				256QAM	1	99	1	0	17.90

Combination 15MHz+20MHz (75RB+100RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39728	2503.8	39899	2520.9	QPSK	1	74	1	0	22.54
				16QAM	1	74	1	0	21.49
				64QAM	1	74	1	0	20.61
				256QAM	1	74	1	0	17.48
40523	2583.3	40694	2600.4	QPSK	1	74	1	0	22.89
				16QAM	1	74	1	0	21.87



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				64QAM	1	74	1	0	21.03
				256QAM	1	74	1	0	17.86
41319	2662.9	41490	2680	QPSK	1	74	1	0	22.92
				16QAM	1	74	1	0	21.88
				64QAM	1	74	1	0	21.09
				256QAM	1	74	1	0	17.91
Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39750	2506	39894	2520.4	QPSK	1	99	1	0	22.61
				16QAM	1	99	1	0	21.42
				64QAM	1	99	1	0	20.56
				256QAM	1	99	1	0	17.46
40571	2588.1	40715	2602.5	QPSK	1	99	1	0	22.87
				16QAM	1	99	1	0	21.88
				64QAM	1	99	1	0	20.93
				256QAM	1	99	1	0	17.85
41391	2670.1	41535	2684.5	QPSK	1	99	1	0	22.85
				16QAM	1	99	1	0	21.97
				64QAM	1	99	1	0	21.17
				256QAM	1	99	1	0	17.93
Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39705	2501.5	39849	2515.9	QPSK	1	49	1	0	22.55
				16QAM	1	49	1	0	21.40
				64QAM	1	49	1	0	20.56
				256QAM	1	49	1	0	17.48
40526	2583.6	40670	2598	QPSK	1	49	1	0	22.76
				16QAM	1	49	1	0	21.87
				64QAM	1	49	1	0	20.99
				256QAM	1	49	1	0	17.88
41346	2665.6	41490	2680	QPSK	1	49	1	0	22.98
				16QAM	1	49	1	0	21.97
				64QAM	1	49	1	0	21.17
				256QAM	1	49	1	0	17.93
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39725	2503.5	39875	2518.5	QPSK	1	74	1	0	22.61


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				16QAM	1	74	1	0	21.39
				64QAM	1	74	1	0	20.67
				256QAM	1	74	1	0	17.57
40545	2585.5	40695	2600.5	QPSK	1	74	1	0	22.79
				16QAM	1	74	1	0	21.94
				64QAM	1	74	1	0	20.99
				256QAM	1	74	1	0	17.86
41365	2667.5	41515	2682.5	QPSK	1	74	1	0	22.90
				16QAM	1	74	1	0	21.90
				64QAM	1	74	1	0	21.17
				256QAM	1	74	1	0	17.97

Combination 15MHz+10MHz (75RB+50RB)

PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39725	2503.5	39845	2515.5	QPSK	1	74	1	0	22.49
				16QAM	1	74	1	0	21.50
				64QAM	1	74	1	0	20.60
				256QAM	1	74	1	0	17.56
40571	2588.1	40691	2600.1	QPSK	1	74	1	0	22.76
				16QAM	1	74	1	0	21.82
				64QAM	1	74	1	0	21.03
				256QAM	1	74	1	0	17.84
41417	2672.7	41537	2684.7	QPSK	1	74	1	0	22.94
				16QAM	1	74	1	0	21.94
				64QAM	1	74	1	0	21.04
				256QAM	1	74	1	0	17.91

Combination 10MHz+15MHz (50RB+75RB)

PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39703	2501.3	39823	2513.3	QPSK	1	49	1	0	22.52
				16QAM	1	49	1	0	21.51
				64QAM	1	49	1	0	20.69
				256QAM	1	49	1	0	17.56
40549	2585.9	40669	2597.9	QPSK	1	49	1	0	22.89
				16QAM	1	49	1	0	21.94
				64QAM	1	49	1	0	21.01
				256QAM	1	49	1	0	17.80
41395	2670.5	41515	2682.5	QPSK	1	49	1	0	22.94
				16QAM	1	49	1	0	22.00
				64QAM	1	49	1	0	21.15
				256QAM	1	49	1	0	17.98

Combination 20MHz+5MHz (100RB+25RB)



PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39750	2506	39867	2517.7	QPSK	1	99	1	0	22.60
				16QAM	1	99	1	0	21.45
				64QAM	1	99	1	0	20.56
				256QAM	1	99	1	0	17.50
40595	2590.5	40712	2602.2	QPSK	1	99	1	0	22.75
				16QAM	1	99	1	0	21.87
				64QAM	1	99	1	0	21.01
				256QAM	1	99	1	0	17.78
41440	2675	41557	2686.7	QPSK	1	99	1	0	22.94
				16QAM	1	99	1	0	21.89
				64QAM	1	99	1	0	21.17
				256QAM	1	99	1	0	17.99
Combination 5MHz+20MHz (25RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
39683	2499.3	39800	2511	QPSK	1	24	1	0	22.49
				16QAM	1	24	1	0	21.45
				64QAM	1	24	1	0	20.66
				256QAM	1	24	1	0	17.58
40528	2583.8	40645	2595.5	QPSK	1	24	1	0	22.83
				16QAM	1	24	1	0	21.93
				64QAM	1	24	1	0	20.99
				256QAM	1	24	1	0	17.84
41373	2668.3	41490	2680	QPSK	1	24	1	0	22.89
				16QAM	1	24	1	0	21.89
				64QAM	1	24	1	0	21.04
				256QAM	1	24	1	0	17.91



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Combination 20MHz+20MHz (100RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
42190	3460	42388	3479.8	QPSK	1	99	1	0	23.55
				16QAM	1	99	1	0	22.62
				64QAM	1	99	1	0	21.76
				256QAM	1	99	1	0	18.82
42491	3490.1	42689	3509.9	QPSK	1	99	1	0	23.48
				16QAM	1	99	1	0	22.54
				64QAM	1	99	1	0	21.54
				256QAM	1	99	1	0	18.77
42792	3520.2	42990	3540	QPSK	1	99	1	0	23.64
				16QAM	1	99	1	0	22.67
				64QAM	1	99	1	0	21.56
				256QAM	1	99	1	0	18.85
Combination 20MHz+15MHz (100RB+75RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
42190	3460	42361	3477.1	QPSK	1	99	1	0	23.45
				16QAM	1	99	1	0	22.57
				64QAM	1	99	1	0	21.75
				256QAM	1	99	1	0	18.68
42516	3492.6	42687	3509.7	QPSK	1	99	1	0	23.38
				16QAM	1	99	1	0	22.48
				64QAM	1	99	1	0	21.39
				256QAM	1	99	1	0	18.65
42841	3525.1	43012	3542.2	QPSK	1	99	1	0	23.62
				16QAM	1	99	1	0	22.59
				64QAM	1	99	1	0	21.52
				256QAM	1	99	1	0	18.73
Combination 15MHz+20MHz (75RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
42168	3457.8	42339	3474.9	QPSK	1	74	1	0	23.50
				16QAM	1	74	1	0	22.53
				64QAM	1	74	1	0	21.62
				256QAM	1	74	1	0	18.68
42493	3490.3	42664	3507.4	QPSK	1	74	1	0	23.42
				16QAM	1	74	1	0	22.40



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				64QAM	1	74	1	0	21.50
				256QAM	1	74	1	0	18.62
42819	3522.9	42990	3540	QPSK	1	74	1	0	23.54
				16QAM	1	74	1	0	22.56
				64QAM	1	74	1	0	21.53
				256QAM	1	74	1	0	18.79
Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
42190	3460	42334	3474.4	QPSK	1	99	1	0	23.44
				16QAM	1	99	1	0	22.54
				64QAM	1	99	1	0	21.68
				256QAM	1	99	1	0	18.80
42541	3495.1	42685	3509.5	QPSK	1	99	1	0	23.36
				16QAM	1	99	1	0	22.42
				64QAM	1	99	1	0	21.45
				256QAM	1	99	1	0	18.69
42891	3530.1	43035	3544.5	QPSK	1	99	1	0	23.54
				16QAM	1	99	1	0	22.56
				64QAM	1	99	1	0	21.55
				256QAM	1	99	1	0	18.78
Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
42145	3455.5	42289	3469.9	QPSK	1	49	1	0	23.48
				16QAM	1	49	1	0	22.50
				64QAM	1	49	1	0	21.75
				256QAM	1	49	1	0	18.71
42496	3490.6	42640	3505	QPSK	1	49	1	0	23.44
				16QAM	1	49	1	0	22.45
				64QAM	1	49	1	0	21.50
				256QAM	1	49	1	0	18.75
42846	3525.6	42990	3540	QPSK	1	49	1	0	23.63
				16QAM	1	49	1	0	22.64
				64QAM	1	49	1	0	21.42
				256QAM	1	49	1	0	18.79
Combination 20MHz+5MHz (100RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
42190	3460	42307	3471.7	QPSK	1	99	1	0	23.44



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				16QAM	1	99	1	0	22.48
				64QAM	1	99	1	0	21.70
				256QAM	1	99	1	0	18.79
42565	3497.5	42682	3509.2	QPSK	1	99	1	0	23.38
				16QAM	1	99	1	0	22.51
				64QAM	1	99	1	0	21.42
				256QAM	1	99	1	0	18.66
42940	3535	43057	3546.7	QPSK	1	99	1	0	23.50
				16QAM	1	99	1	0	22.63
				64QAM	1	99	1	0	21.46
				256QAM	1	99	1	0	18.76
Combination 5MHz+20MHz (25RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
42123	3453.3	42240	3465	QPSK	1	24	1	0	23.51
				16QAM	1	24	1	0	22.53
				64QAM	1	24	1	0	21.63
				256QAM	1	24	1	0	18.72
42498	3490.8	42615	3502.5	QPSK	1	24	1	0	23.34
				16QAM	1	24	1	0	22.47
				64QAM	1	24	1	0	21.51
				256QAM	1	24	1	0	18.75
42873	3528.3	42990	3540	QPSK	1	24	1	0	23.58
				16QAM	1	24	1	0	22.63
				64QAM	1	24	1	0	21.50
				256QAM	1	24	1	0	18.79



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Combination 10MHz+10MHz (50RB+50RB)									
PCC Chann el	PCC Freq uen cy (MHz)	SCC Chann el	SCC Freq uen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13202 2	1715	13212 1	1724.9	QPSK	1	49	1	0	24.12
				16QAM	1	49	1	0	23.51
				64QAM	1	49	1	0	22.13
				256QAM	1	49	1	0	19.27
13237 3	1750.1	13247 2	1760	QPSK	1	49	1	0	23.96
				16QAM	1	49	1	0	23.31
				64QAM	1	49	1	0	22.07
				256QAM	1	49	1	0	19.22
13252 3	1765.1	13262 2	1775	QPSK	1	49	1	0	23.81
				16QAM	1	49	1	0	23.26
				64QAM	1	49	1	0	22.01
				256QAM	1	49	1	0	19.06
Combination 15MHz+5MHz (75RB+25RB)									
PCC Chann el	PCC Freq uen cy (MHz)	SCC Chann el	SCC Freq uen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13204 7	1717.5	13214 0	1726.8	QPSK	1	74	1	0	24.07
				16QAM	1	74	1	0	23.44
				64QAM	1	74	1	0	22.09
				256QAM	1	74	1	0	19.21
13239 8	1752.6	13249 1	1761.9	QPSK	1	74	1	0	23.92
				16QAM	1	74	1	0	23.27
				64QAM	1	74	1	0	22.04
				256QAM	1	74	1	0	19.18
13254 9	1767.7	13264 2	1777	QPSK	1	74	1	0	23.77
				16QAM	1	74	1	0	23.24
				64QAM	1	74	1	0	22.03
				256QAM	1	74	1	0	19.04
Combination 5MHz+15MHz (25RB+75RB)									
PCC Chann el	PCC Freq uen cy (MHz)	SCC Chann el	SCC Freq uen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13200 2	1713	13209 5	1722.3	QPSK	1	24	1	0	24.17
				16QAM	1	24	1	0	23.53
				64QAM	1	24	1	0	22.15
				256QAM	1	24	1	0	19.24
13235 3	1748.1	13244 6	1757.4	QPSK	1	24	1	0	23.91
				16QAM	1	24	1	0	23.30



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				64QAM	1	24	1	0	22.14
				256QAM	1	24	1	0	19.17
13250 4	1763.2	13259 7	1772.5	QPSK	1	24	1	0	23.89
				16QAM	1	24	1	0	23.33
				64QAM	1	24	1	0	22.03
				256QAM	1	24	1	0	19.09
Combination 10MHz+5MHz (50RB+25RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13202 2	1715	13209 4	1722.2	QPSK	1	49	1	0	24.18
				16QAM	1	49	1	0	23.52
				64QAM	1	49	1	0	22.14
				256QAM	1	49	1	0	19.23
13239 7	1752.5	13246 9	1759.7	QPSK	1	49	1	0	23.92
				16QAM	1	49	1	0	23.24
				64QAM	1	49	1	0	22.03
				256QAM	1	49	1	0	19.14
13257 2	1770	13264 4	1777.2	QPSK	1	49	1	0	23.77
				16QAM	1	49	1	0	23.22
				64QAM	1	49	1	0	22.06
				256QAM	1	49	1	0	19.12
Combination 5MHz+10MHz (25RB+50RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13200 0	1712.8	13207 2	1720	QPSK	1	24	1	0	24.17
				16QAM	1	24	1	0	23.46
				64QAM	1	24	1	0	22.11
				256QAM	1	24	1	0	19.20
13237 5	1750.3	13244 7	1757.5	QPSK	1	24	1	0	23.78
				16QAM	1	24	1	0	23.14
				64QAM	1	24	1	0	21.88
				256QAM	1	24	1	0	19.08
13255 0	1767.8	13262 2	1775	QPSK	1	24	1	0	23.65
				16QAM	1	24	1	0	23.12
				64QAM	1	24	1	0	21.91
				256QAM	1	24	1	0	19.00
Combination 5MHz+5MHz (25RB+25RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
	1712.5		1717.3	QPSK	1	24	1	0	24.16



13199 7		13204 5		16QAM	1	24	1	0	23.41
				64QAM	1	24	1	0	22.05
				256QAM	1	24	1	0	19.16
13239 8	1777.5	13244 6	1782.3	QPSK	1	24	1	0	23.79
				16QAM	1	24	1	0	23.17
				64QAM	1	24	1	0	21.94
				256QAM	1	24	1	0	19.05
13259 9	1772.7	13264 7	1777.5	QPSK	1	24	1	0	23.66
				16QAM	1	24	1	0	23.13
				64QAM	1	24	1	0	22.05
				256QAM	1	24	1	0	19.07



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Combination 20MHz+20MHz (100RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13207 2	1720	13227 0	1739.8	QPSK	1	99	1	0	24.26
				16QAM	1	99	1	0	23.57
				64QAM	1	99	1	0	22.43
				256QAM	1	99	1	0	19.39
13232 3	1745.1	13252 1	1764.9	QPSK	1	99	1	0	24.09
				16QAM	1	99	1	0	23.48
				64QAM	1	99	1	0	22.39
				256QAM	1	99	1	0	19.31
13237 4	1750.2	13257 2	1770	QPSK	1	99	1	0	24.06
				16QAM	1	99	1	0	23.39
				64QAM	1	99	1	0	22.30
				256QAM	1	99	1	0	19.29
Combination 20MHz+15MHz (100RB+75RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13207 2	1720	13224 3	1737.1	QPSK	1	99	1	0	24.07
				16QAM	1	99	1	0	23.33
				64QAM	1	99	1	0	22.03
				256QAM	1	99	1	0	19.19
13234 8	1747.6	13251 9	1764.7	QPSK	1	99	1	0	23.79
				16QAM	1	99	1	0	23.21
				64QAM	1	99	1	0	22.17
				256QAM	1	99	1	0	19.04
13242 3	1755.1	13259 4	1772.2	QPSK	1	99	1	0	23.79
				16QAM	1	99	1	0	23.14
				64QAM	1	99	1	0	22.01
				256QAM	1	99	1	0	19.03
Combination 15MHz+20MHz (75RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13205 0	1717.8	13222 1	1734.9	QPSK	1	74	1	0	24.02
				16QAM	1	74	1	0	23.26
				64QAM	1	74	1	0	22.08
				256QAM	1	74	1	0	19.14
13232 5	1745.3	13249 6	1762.4	QPSK	1	74	1	0	23.80
				16QAM	1	74	1	0	23.09



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				64QAM	1	74	1	0	22.15
				256QAM	1	74	1	0	19.02
13240 1	1752.9	13257 2	1770	QPSK	1	74	1	0	23.84
				16QAM	1	74	1	0	23.02
				64QAM	1	74	1	0	22.04
				256QAM	1	74	1	0	18.97
Combination 20MHz+10MHz (100RB+50RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13207 2	1720	13221 6	1734.4	QPSK	1	99	1	0	24.01
				16QAM	1	99	1	0	23.27
				64QAM	1	99	1	0	21.99
				256QAM	1	99	1	0	19.16
13237 3	1750.1	13251 7	1764.5	QPSK	1	99	1	0	23.71
				16QAM	1	99	1	0	23.03
				64QAM	1	99	1	0	22.21
				256QAM	1	99	1	0	18.88
13247 3	1760.1	13261 7	1774.5	QPSK	1	99	1	0	23.70
				16QAM	1	99	1	0	22.98
				64QAM	1	99	1	0	22.04
				256QAM	1	99	1	0	18.97
Combination 10MHz+20MHz (50RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13202 7	1715.5	13217 1	1729.9	QPSK	1	49	1	0	23.93
				16QAM	1	49	1	0	23.30
				64QAM	1	49	1	0	22.07
				256QAM	1	49	1	0	19.04
13232 8	1745.6	13247 2	1760	QPSK	1	49	1	0	23.66
				16QAM	1	49	1	0	23.03
				64QAM	1	49	1	0	22.17
				256QAM	1	49	1	0	18.87
13242 8	1755.6	13257 2	1770	QPSK	1	49	1	0	23.78
				16QAM	1	49	1	0	22.98
				64QAM	1	49	1	0	22.03
				256QAM	1	49	1	0	19.06
Combination 15MHz+15MHz (75RB+75RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
	1717.5		1732.5	QPSK	1	74	1	0	24.03



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Combination 15MHz+10MHz (75RB+50RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13204 7	1717.5	13216 7	1729.5	QPSK	1	74	1	0	24.12
				16QAM	1	74	1	0	23.35
				64QAM	1	74	1	0	22.26
				256QAM	1	74	1	0	19.29
13237 3	1750.1	13249 3	1762.1	QPSK	1	74	1	0	23.87
				16QAM	1	74	1	0	23.41
				64QAM	1	74	1	0	22.26
				256QAM	1	74	1	0	19.10
13249 9	1762.7	13261 9	1774.7	QPSK	1	74	1	0	23.86
				16QAM	1	74	1	0	23.23
				64QAM	1	74	1	0	22.05
				256QAM	1	74	1	0	19.18
Combination 10MHz+15MHz (50RB+75RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13202 5	1715.3	13214 5	1727.3	QPSK	1	49	1	0	24.02
				16QAM	1	49	1	0	23.22
				64QAM	1	49	1	0	22.20
				256QAM	1	49	1	0	19.25
13235 1	1747.9	13247 1	1759.9	QPSK	1	49	1	0	23.77
				16QAM	1	49	1	0	23.38
				64QAM	1	49	1	0	22.12
				256QAM	1	49	1	0	18.97
13247 7	1760.5	13259 7	1772.5	QPSK	1	49	1	0	23.82
				16QAM	1	49	1	0	23.09
				64QAM	1	49	1	0	21.94
				256QAM	1	49	1	0	19.04
Combination 20MHz+5MHz (100RB+25RB)									



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PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13207 2	1720	13218 9	1731.7	QPSK	1	99	1	0	24.00
				16QAM	1	99	1	0	23.24
				64QAM	1	99	1	0	22.14
				256QAM	1	99	1	0	19.27
13239 7	1752.5	13251 4	1764.2	QPSK	1	99	1	0	23.76
				16QAM	1	99	1	0	23.32
				64QAM	1	99	1	0	22.13
				256QAM	1	99	1	0	18.95
13252 2	1765	13263 9	1776.7	QPSK	1	99	1	0	23.76
				16QAM	1	99	1	0	23.11
				64QAM	1	99	1	0	21.97
				256QAM	1	99	1	0	19.14
Combination 5MHz+20MHz (25RB+100RB)									
PCC Chann el	PCC Frequen cy (MHz)	SCC Chann el	SCC Frequen cy (MHz)	Modulati on	PCC		SCC		Measur ed Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
13200 5	1713.3	13212 2	1725	QPSK	1	24	1	0	23.98
				16QAM	1	24	1	0	23.24
				64QAM	1	24	1	0	22.15
				256QAM	1	24	1	0	19.19
13233 0	1745.8	13244 7	1757.5	QPSK	1	24	1	0	23.84
				16QAM	1	24	1	0	23.30
				64QAM	1	24	1	0	22.14
				256QAM	1	24	1	0	19.06
13245 5	1758.3	13257 2	1770	QPSK	1	24	1	0	23.85
				16QAM	1	24	1	0	23.21
				64QAM	1	24	1	0	21.99
				256QAM	1	24	1	0	19.11



LTE Band CA_7C

CA_7C_Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	21048	2529.8	QPSK	23.61	0.74	24.35	272.27	2
				16QAM	22.73	0.74	23.47	222.33	2
				64QAM	21.69	0.74	22.43	174.98	2
				256QAM	18.60	0.74	19.34	85.90	2
21001	2525.1	21199	2544.9	QPSK	23.64	0.74	24.38	274.16	2
				16QAM	22.70	0.74	23.44	220.80	2
				64QAM	21.73	0.74	22.47	176.60	2
				256QAM	18.59	0.74	19.33	85.70	2
21152	2540.2	21350	2560	QPSK	23.72	0.74	24.46	279.25	2
				16QAM	22.81	0.74	23.55	226.46	2
				64QAM	21.72	0.74	22.46	176.20	2
				256QAM	18.88	0.74	19.62	91.62	2
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	21021	2527.1	QPSK	23.37	0.74	24.11	257.63	2
				16QAM	22.71	0.74	23.45	221.31	2
				64QAM	21.55	0.74	22.29	169.43	2
				256QAM	18.51	0.74	19.25	84.14	2
21026	2527.6	21197	2544.7	QPSK	23.52	0.74	24.26	266.69	2
				16QAM	22.56	0.74	23.30	213.80	2
				64QAM	21.58	0.74	22.32	170.61	2
				256QAM	18.50	0.74	19.24	83.95	2
21201	2545.1	21372	2562.2	QPSK	23.50	0.74	24.24	265.46	2
				16QAM	22.71	0.74	23.45	221.31	2
				64QAM	21.59	0.74	22.33	171.00	2
				256QAM	18.87	0.74	19.61	91.41	2
Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20999	2524.9	QPSK	23.42	0.74	24.16	260.62	2
				16QAM	22.62	0.74	23.36	216.77	2



				64QAM	21.54	0.74	22.28	169.04	2
				256QAM	18.48	0.74	19.22	83.56	2
21003	2525.3	21174	2542.4	QPSK	23.39	0.74	24.13	258.82	2
				16QAM	22.57	0.74	23.31	214.29	2
				64QAM	21.59	0.74	22.33	171.00	2
				256QAM	18.50	0.74	19.24	83.95	2
21179	2542.9	21350	2560	QPSK	23.48	0.74	24.22	264.24	2
				16QAM	22.68	0.74	23.42	219.79	2
				64QAM	21.65	0.74	22.39	173.38	2
				256QAM	18.75	0.74	19.49	88.92	2

Combination 20MHz+10MHz (100RB+50RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	20994	2524.4	QPSK	23.43	0.74	24.17	261.22	2
				16QAM	22.70	0.74	23.44	220.80	2
				64QAM	21.62	0.74	22.36	172.19	2
				256QAM	18.49	0.74	19.23	83.75	2
21051	2530.1	21195	2544.5	QPSK	23.39	0.74	24.13	258.82	2
				16QAM	22.69	0.74	23.43	220.29	2
				64QAM	21.59	0.74	22.33	171.00	2
				256QAM	18.55	0.74	19.29	84.92	2
21251	2550.1	21395	2564.5	QPSK	23.58	0.74	24.32	270.40	2
				16QAM	22.76	0.74	23.50	223.87	2
				64QAM	21.64	0.74	22.38	172.98	2
				256QAM	18.85	0.74	19.59	90.99	2

Combination 10MHz+20MHz (50RB+100RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	QPSK	23.38	0.74	24.12	258.23	2
				16QAM	22.67	0.74	23.41	219.28	2
				64QAM	21.66	0.74	22.40	173.78	2
				256QAM	18.46	0.74	19.20	83.18	2
21006	2525.6	21150	2540	QPSK	23.53	0.74	24.27	267.30	2
				16QAM	22.69	0.74	23.43	220.29	2
				64QAM	21.58	0.74	22.32	170.61	2
				256QAM	18.46	0.74	19.20	83.18	2
21206	21206	21350	21220.4	QPSK	23.53	0.74	24.27	267.30	2



				16QAM	22.73	0.74	23.47	222.33	2
				64QAM	21.66	0.74	22.40	173.78	2
				256QAM	18.76	0.74	19.50	89.13	2
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20975	2522.5	QPSK	23.47	0.74	24.21	263.63	2
				16QAM	22.67	0.74	23.41	219.28	2
				64QAM	21.62	0.74	22.36	172.19	2
				256QAM	18.58	0.74	19.32	85.51	2
21025	2527.5	21175	2542.5	QPSK	23.43	0.74	24.17	261.22	2
				16QAM	22.63	0.74	23.37	217.27	2
				64QAM	21.59	0.74	22.33	171.00	2
				256QAM	18.49	0.74	19.23	83.75	2
21225	2547.5	21375	2562.5	QPSK	23.61	0.74	24.35	272.27	2
				16QAM	22.71	0.74	23.45	221.31	2
				64QAM	21.70	0.74	22.44	175.39	2
				256QAM	18.79	0.74	19.53	89.74	2
Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	QPSK	23.35	0.74	24.09	256.45	2
				16QAM	22.59	0.74	23.33	215.28	2
				64QAM	21.61	0.74	22.35	171.79	2
				256QAM	18.58	0.74	19.32	85.51	2
21051	2530.1	21171	2542.1	QPSK	23.50	0.74	24.24	265.46	2
				16QAM	22.57	0.74	23.31	214.29	2
				64QAM	21.58	0.74	22.32	170.61	2
				256QAM	18.52	0.74	19.26	84.33	2
21277	2552.7	21397	2564.7	QPSK	23.61	0.74	24.35	272.27	2
				16QAM	22.71	0.74	23.45	221.31	2
				64QAM	21.66	0.74	22.40	173.78	2
				256QAM	18.85	0.74	19.59	90.99	2



CA_12B_Ant 0									
Combination 5MHz+10MHz (25RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
23038	701.8	23110	709	QPSK	23.24	-3.00	18.09	64.42	3
				16QAM	22.58	-3.00	17.43	55.34	3
				64QAM	21.11	-3.00	15.96	39.45	3
				256QAM	18.55	-3.00	13.40	21.88	3
23048	702.8	23120	710	QPSK	23.21	-3.00	18.06	63.97	3
				16QAM	22.57	-3.00	17.42	55.21	3
				64QAM	21.04	-3.00	15.89	38.82	3
				256QAM	18.60	-3.00	13.45	22.13	3
23058	703.8	23130	711	QPSK	23.35	-3.00	18.20	66.07	3
				16QAM	22.67	-3.00	17.52	56.49	3
				64QAM	21.19	-3.00	16.04	40.18	3
				256QAM	18.62	-3.00	13.47	22.23	3
Combination 5MHz+5MHz (25RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	23083	706.3	QPSK	23.13	-3.00	17.98	62.81	3
				16QAM	22.51	-3.00	17.36	54.45	3
				64QAM	21.01	-3.00	15.86	38.55	3
				256QAM	18.49	-3.00	13.34	21.58	3
23071	705.1	23119	709.9	QPSK	23.08	-3.00	17.93	62.09	3
				16QAM	22.56	-3.00	17.41	55.08	3
				64QAM	20.89	-3.00	15.74	37.50	3
				256QAM	18.47	-3.00	13.32	21.48	3
23107	708.7	23155	713.5	QPSK	23.15	-3.00	18.00	63.10	3
				16QAM	22.52	-3.00	17.37	54.58	3
				64QAM	21.15	-3.00	16.00	39.81	3
				256QAM	18.61	-3.00	13.46	22.18	3



LTE Band CA_38C

CA_38C_Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580	38048	2599.8	QPSK	24.31	0.74	25.05	319.89	2
				16QAM	23.33	0.74	24.07	255.27	2
				64QAM	22.40	0.74	23.14	206.06	2
				256QAM	19.38	0.74	20.12	102.80	2
37901	2585.1	38099	2604.9	QPSK	24.23	0.74	24.97	314.05	2
				16QAM	23.29	0.74	24.03	252.93	2
				64QAM	22.29	0.74	23.03	200.91	2
				256QAM	19.39	0.74	20.13	103.04	2
37952	2590.2	38150	2610	QPSK	24.18	0.74	24.92	310.46	2
				16QAM	23.22	0.74	23.96	248.89	2
				64QAM	22.20	0.74	22.94	196.79	2
				256QAM	19.31	0.74	20.05	101.16	2
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	37975	2592.5	QPSK	24.17	0.74	24.91	309.74	2
				16QAM	23.28	0.74	24.02	252.35	2
				64QAM	22.35	0.74	23.09	203.70	2
				256QAM	19.36	0.74	20.10	102.33	2
37925	2587.5	38075	2602.5	QPSK	24.15	0.74	24.89	308.32	2
				16QAM	23.18	0.74	23.92	246.60	2
				64QAM	22.20	0.74	22.94	196.79	2
				256QAM	19.33	0.74	20.07	101.62	2
38025	2597.5	38175	2612.5	QPSK	24.09	0.74	24.83	304.09	2
				16QAM	23.09	0.74	23.83	241.55	2
				64QAM	22.05	0.74	22.79	190.11	2
				256QAM	19.29	0.74	20.03	100.69	2



LTE Band CA 41C

CA_41C(FCC)_Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	39948	2525.8	QPSK	22.63	0.74	23.37	217.27	2
				16QAM	21.53	0.74	22.27	168.66	2
				64QAM	20.71	0.74	21.45	139.64	2
				256QAM	17.61	0.74	18.35	68.39	2
40521	2583.1	40719	2602.9	QPSK	23.01	0.74	23.75	237.14	2
				16QAM	21.97	0.74	22.71	186.64	2
				64QAM	21.07	0.74	21.81	151.71	2
				256QAM	17.93	0.74	18.67	73.62	2
41292	2660.2	41490	2680	QPSK	23.11	0.74	23.85	242.66	2
				16QAM	22.03	0.74	22.77	189.23	2
				64QAM	21.19	0.74	21.93	155.96	2
				256QAM	18.04	0.74	18.78	75.51	2
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	39921	2523.1	QPSK	22.60	0.74	23.34	215.77	2
				16QAM	21.43	0.74	22.17	164.82	2
				64QAM	20.59	0.74	21.33	135.83	2
				256QAM	17.52	0.74	18.26	66.99	2
40546	2585.6	40717	2602.7	QPSK	22.88	0.74	23.62	230.14	2
				16QAM	21.94	0.74	22.68	185.35	2
				64QAM	20.97	0.74	21.71	148.25	2
				256QAM	17.92	0.74	18.66	73.45	2
41341	2665.1	41512	2682.2	QPSK	22.89	0.74	23.63	230.67	2
				16QAM	21.93	0.74	22.67	184.93	2
				64QAM	21.13	0.74	21.87	153.82	2
				256QAM	17.90	0.74	18.64	73.11	2
Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39728	2503.8	39899	2520.9	QPSK	22.54	0.74	23.28	212.81	2
				16QAM	21.49	0.74	22.23	167.11	2
				64QAM	20.61	0.74	21.35	136.46	2



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				256QAM	17.48	0.74	18.22	66.37	2
40523	2583.3	40694	2600.4	QPSK	22.89	0.74	23.63	230.67	2
				16QAM	21.87	0.74	22.61	182.39	2
				64QAM	21.03	0.74	21.77	150.31	2
				256QAM	17.86	0.74	18.60	72.44	2
41319	2662.9	41490	2680	QPSK	22.92	0.74	23.66	232.27	2
				16QAM	21.88	0.74	22.62	182.81	2
				64QAM	21.09	0.74	21.83	152.41	2
				256QAM	17.91	0.74	18.65	73.28	2
Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	39894	2520.4	QPSK	22.61	0.74	23.35	216.27	2
				16QAM	21.42	0.74	22.16	164.44	2
				64QAM	20.56	0.74	21.30	134.90	2
				256QAM	17.46	0.74	18.20	66.07	2
40571	2588.1	40715	2602.5	QPSK	22.87	0.74	23.61	229.61	2
				16QAM	21.88	0.74	22.62	182.81	2
				64QAM	20.93	0.74	21.67	146.89	2
				256QAM	17.85	0.74	18.59	72.28	2
41391	2670.1	41535	2684.5	QPSK	22.85	0.74	23.59	228.56	2
				16QAM	21.97	0.74	22.71	186.64	2
				64QAM	21.17	0.74	21.91	155.24	2
				256QAM	17.93	0.74	18.67	73.62	2
Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39705	2501.5	39849	2515.9	QPSK	22.55	0.74	23.29	213.30	2
				16QAM	21.40	0.74	22.14	163.68	2
				64QAM	20.56	0.74	21.30	134.90	2
				256QAM	17.48	0.74	18.22	66.37	2
40526	2583.6	40670	2598	QPSK	22.76	0.74	23.50	223.87	2
				16QAM	21.87	0.74	22.61	182.39	2
				64QAM	20.99	0.74	21.73	148.94	2
				256QAM	17.88	0.74	18.62	72.78	2
41346	2665.6	41490	2680	QPSK	22.98	0.74	23.72	235.50	2
				16QAM	21.97	0.74	22.71	186.64	2



				64QAM	21.17	0.74	21.91	155.24	2
				256QAM	17.93	0.74	18.67	73.62	2
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	39875	2518.5	QPSK	22.61	0.74	23.35	216.27	2
				16QAM	21.39	0.74	22.13	163.31	2
				64QAM	20.67	0.74	21.41	138.36	2
				256QAM	17.57	0.74	18.31	67.76	2
40545	2585.5	40695	2600.5	QPSK	22.79	0.74	23.53	225.42	2
				16QAM	21.94	0.74	22.68	185.35	2
				64QAM	20.99	0.74	21.73	148.94	2
				256QAM	17.86	0.74	18.60	72.44	2
41365	2667.5	41515	2682.5	QPSK	22.90	0.74	23.64	231.21	2
				16QAM	21.90	0.74	22.64	183.65	2
				64QAM	21.17	0.74	21.91	155.24	2
				256QAM	17.97	0.74	18.71	74.30	2
Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	39845	2515.5	QPSK	22.49	0.74	23.23	210.38	2
				16QAM	21.50	0.74	22.24	167.49	2
				64QAM	20.60	0.74	21.34	136.14	2
				256QAM	17.56	0.74	18.30	67.61	2
40571	2588.1	40691	2600.1	QPSK	22.76	0.74	23.50	223.87	2
				16QAM	21.82	0.74	22.56	180.30	2
				64QAM	21.03	0.74	21.77	150.31	2
				256QAM	17.84	0.74	18.58	72.11	2
41417	2672.7	41537	2684.7	QPSK	22.94	0.74	23.68	233.35	2
				16QAM	21.94	0.74	22.68	185.35	2
				64QAM	21.04	0.74	21.78	150.66	2
				256QAM	17.91	0.74	18.65	73.28	2
Combination 10MHz+15MHz (50RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39703	2501.3	39823	2513.3	QPSK	22.52	0.74	23.26	211.84	2
				16QAM	21.51	0.74	22.25	167.88	2
				64QAM	20.69	0.74	21.43	139.00	2
				256QAM	17.56	0.74	18.30	67.61	2



40549	2585.9	40669	2597.9	QPSK	22.89	0.74	23.63	230.67	2
				16QAM	21.94	0.74	22.68	185.35	2
				64QAM	21.01	0.74	21.75	149.62	2
				256QAM	17.80	0.74	18.54	71.45	2
41395	2670.5	41515	2682.5	QPSK	22.94	0.74	23.68	233.35	2
				16QAM	22.00	0.74	22.74	187.93	2
				64QAM	21.15	0.74	21.89	154.53	2
				256QAM	17.98	0.74	18.72	74.47	2

Combination 20MHz+5MHz (100RB+25RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	39867	2517.7	QPSK	22.60	0.74	23.34	215.77	2
				16QAM	21.45	0.74	22.19	165.58	2
				64QAM	20.56	0.74	21.30	134.90	2
				256QAM	17.50	0.74	18.24	66.68	2
40595	2590.5	40712	2602.2	QPSK	22.75	0.74	23.49	223.36	2
				16QAM	21.87	0.74	22.61	182.39	2
				64QAM	21.01	0.74	21.75	149.62	2
				256QAM	17.78	0.74	18.52	71.12	2
41440	2675	41557	2686.7	QPSK	22.94	0.74	23.68	233.35	2
				16QAM	21.89	0.74	22.63	183.23	2
				64QAM	21.17	0.74	21.91	155.24	2
				256QAM	17.99	0.74	18.73	74.64	2

Combination 5MHz+20MHz (25RB+100RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
39683	2499.3	39800	2511	QPSK	22.49	0.74	23.23	210.38	2
				16QAM	21.45	0.74	22.19	165.58	2
				64QAM	20.66	0.74	21.40	138.04	2
				256QAM	17.58	0.74	18.32	67.92	2
40528	2583.8	40645	2595.5	QPSK	22.83	0.74	23.57	227.51	2
				16QAM	21.93	0.74	22.67	184.93	2
				64QAM	20.99	0.74	21.73	148.94	2
				256QAM	17.84	0.74	18.58	72.11	2
41373	2668.3	41490	2680	QPSK	22.89	0.74	23.63	230.67	2
				16QAM	21.89	0.74	22.63	183.23	2
				64QAM	21.04	0.74	21.78	150.66	2
				256QAM	17.91	0.74	18.65	73.28	2



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Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
42190	3460	42388	3479.8	QPSK	23.55	-0.89	22.66	184.50	1
				16QAM	22.62	-0.89	21.73	148.94	1
				64QAM	21.76	-0.89	20.87	122.18	1
				256QAM	18.82	-0.89	17.93	62.09	1
42491	3490.1	42689	3509.9	QPSK	23.48	-0.89	22.59	181.55	1
				16QAM	22.54	-0.89	21.65	146.22	1
				64QAM	21.54	-0.89	20.65	116.14	1
				256QAM	18.77	-0.89	17.88	61.38	1
42792	3520.2	42990	3540	QPSK	23.64	-0.89	22.75	188.36	1
				16QAM	22.67	-0.89	21.78	150.66	1
				64QAM	21.56	-0.89	20.67	116.68	1
				256QAM	18.85	-0.89	17.96	62.52	1
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
42190	3460	42361	3477.1	QPSK	23.45	-0.89	22.56	180.30	1
				16QAM	22.57	-0.89	21.68	147.23	1
				64QAM	21.75	-0.89	20.86	121.90	1
				256QAM	18.68	-0.89	17.79	60.12	1
42516	3492.6	42687	3509.7	QPSK	23.38	-0.89	22.49	177.42	1
				16QAM	22.48	-0.89	21.59	144.21	1
				64QAM	21.39	-0.89	20.50	112.20	1
				256QAM	18.65	-0.89	17.76	59.70	1
42841	3525.1	43012	3542.2	QPSK	23.62	-0.89	22.73	187.50	1
				16QAM	22.59	-0.89	21.70	147.91	1
				64QAM	21.52	-0.89	20.63	115.61	1
				256QAM	18.73	-0.89	17.84	60.81	1
Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
42168	3457.8	42339	3474.9	QPSK	23.50	-0.89	22.61	182.39	1
				16QAM	22.53	-0.89	21.64	145.88	1
				64QAM	21.62	-0.89	20.73	118.30	1



				256QAM	18.68	-0.89	17.79	60.12	1
42493	3490.3	42664	3507.4	QPSK	23.42	-0.89	22.53	179.06	1
				16QAM	22.40	-0.89	21.51	141.58	1
				64QAM	21.50	-0.89	20.61	115.08	1
				256QAM	18.62	-0.89	17.73	59.29	1
42819	3522.9	42990	3540	QPSK	23.54	-0.89	22.65	184.08	1
				16QAM	22.56	-0.89	21.67	146.89	1
				64QAM	21.53	-0.89	20.64	115.88	1
				256QAM	18.79	-0.89	17.90	61.66	1

Combination 20MHz+10MHz (100RB+50RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
42190	3460	42334	3474.4	QPSK	23.44	-0.89	22.55	179.89	1
				16QAM	22.54	-0.89	21.65	146.22	1
				64QAM	21.68	-0.89	20.79	119.95	1
				256QAM	18.80	-0.89	17.91	61.80	1
42541	3495.1	42685	3509.5	QPSK	23.36	-0.89	22.47	176.60	1
				16QAM	22.42	-0.89	21.53	142.23	1
				64QAM	21.45	-0.89	20.56	113.76	1
				256QAM	18.69	-0.89	17.80	60.26	1
42891	3530.1	43035	3544.5	QPSK	23.54	-0.89	22.65	184.08	1
				16QAM	22.56	-0.89	21.67	146.89	1
				64QAM	21.55	-0.89	20.66	116.41	1
				256QAM	18.78	-0.89	17.89	61.52	1

Combination 10MHz+20MHz (50RB+100RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
42145	3455.5	42289	3469.9	QPSK	23.48	-0.89	22.59	181.55	1
				16QAM	22.50	-0.89	21.61	144.88	1
				64QAM	21.75	-0.89	20.86	121.90	1
				256QAM	18.71	-0.89	17.82	60.53	1
42496	3490.6	42640	3505	QPSK	23.44	-0.89	22.55	179.89	1
				16QAM	22.45	-0.89	21.56	143.22	1
				64QAM	21.50	-0.89	20.61	115.08	1
				256QAM	18.75	-0.89	17.86	61.09	1
42846	3525.6	42990	3540	QPSK	23.63	-0.89	22.74	187.93	1
				16QAM	22.64	-0.89	21.75	149.62	1



				64QAM	21.42	-0.89	20.53	112.98	1
				256QAM	18.79	-0.89	17.90	61.66	1
Combination 20MHz+5MHz (100RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
42190	3460	42307	3471.7	QPSK	23.44	-0.89	22.55	179.89	1
				16QAM	22.48	-0.89	21.59	144.21	1
				64QAM	21.70	-0.89	20.81	120.50	1
				256QAM	18.79	-0.89	17.90	61.66	1
42565	3497.5	42682	3509.2	QPSK	23.38	-0.89	22.49	177.42	1
				16QAM	22.51	-0.89	21.62	145.21	1
				64QAM	21.42	-0.89	20.53	112.98	1
				256QAM	18.66	-0.89	17.77	59.84	1
42940	3535	43057	3546.7	QPSK	23.50	-0.89	22.61	182.39	1
				16QAM	22.63	-0.89	21.74	149.28	1
				64QAM	21.46	-0.89	20.57	114.02	1
				256QAM	18.76	-0.89	17.87	61.24	1
Combination 5MHz+20MHz (25RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
42123	3453.3	42240	3465	QPSK	23.51	-0.89	22.62	182.81	1
				16QAM	22.53	-0.89	21.64	145.88	1
				64QAM	21.63	-0.89	20.74	118.58	1
				256QAM	18.72	-0.89	17.83	60.67	1
42498	3490.8	42615	3502.5	QPSK	23.34	-0.89	22.45	175.79	1
				16QAM	22.47	-0.89	21.58	143.88	1
				64QAM	21.51	-0.89	20.62	115.35	1
				256QAM	18.75	-0.89	17.86	61.09	1
42873	3528.3	42990	3540	QPSK	23.58	-0.89	22.69	185.78	1
				16QAM	22.63	-0.89	21.74	149.28	1
				64QAM	21.50	-0.89	20.61	115.08	1
				256QAM	18.79	-0.89	17.90	61.66	1



LTE Band CA_66B

CA_66B_Ant 0									
Combination 10MHz+10MHz (50RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132121	1724.9	QPSK	24.12	0.28	24.40	275.42	1
				16QAM	23.51	0.28	23.79	239.33	1
				64QAM	22.13	0.28	22.41	174.18	1
				256QAM	19.27	0.28	19.55	90.16	1
132373	1750.1	132472	1760	QPSK	23.96	0.28	24.24	265.46	1
				16QAM	23.31	0.28	23.59	228.56	1
				64QAM	22.07	0.28	22.35	171.79	1
				256QAM	19.22	0.28	19.50	89.13	1
132523	1765.1	132622	1775	QPSK	23.81	0.28	24.09	256.45	1
				16QAM	23.26	0.28	23.54	225.94	1
				64QAM	22.01	0.28	22.29	169.43	1
				256QAM	19.06	0.28	19.34	85.90	1
Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132140	1726.8	QPSK	24.07	0.28	24.35	272.27	1
				16QAM	23.44	0.28	23.72	235.50	1
				64QAM	22.09	0.28	22.37	172.58	1
				256QAM	19.21	0.28	19.49	88.92	1
132398	1752.6	132491	1761.9	QPSK	23.92	0.28	24.20	263.03	1
				16QAM	23.27	0.28	23.55	226.46	1
				64QAM	22.04	0.28	22.32	170.61	1
				256QAM	19.18	0.28	19.46	88.31	1
132549	1767.7	132642	1777	QPSK	23.77	0.28	24.05	254.10	1
				16QAM	23.24	0.28	23.52	224.91	1
				64QAM	22.03	0.28	22.31	170.22	1
				256QAM	19.04	0.28	19.32	85.51	1
Combination 5MHz+15MHz (25RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132002	1713	132095	1722.3	QPSK	24.17	0.28	24.45	278.61	1
				16QAM	23.53	0.28	23.81	240.44	1
				64QAM	22.15	0.28	22.43	174.98	1



				256QAM	19.24	0.28	19.52	89.54	1
132353	1748.1	132446	1757.4	QPSK	23.91	0.28	24.19	262.42	1
				16QAM	23.30	0.28	23.58	228.03	1
				64QAM	22.14	0.28	22.42	174.58	1
				256QAM	19.17	0.28	19.45	88.10	1
132504	1763.2	132597	1772.5	QPSK	23.89	0.28	24.17	261.22	1
				16QAM	23.33	0.28	23.61	229.61	1
				64QAM	22.03	0.28	22.31	170.22	1
				256QAM	19.09	0.28	19.37	86.50	1

Combination 10MHz+5MHz (50RB+25RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132094	1722.2	QPSK	24.18	0.28	24.46	279.25	1
				16QAM	23.52	0.28	23.80	239.88	1
				64QAM	22.14	0.28	22.42	174.58	1
				256QAM	19.23	0.28	19.51	89.33	1
132397	1752.5	132469	1759.7	QPSK	23.92	0.28	24.20	263.03	1
				16QAM	23.24	0.28	23.52	224.91	1
				64QAM	22.03	0.28	22.31	170.22	1
				256QAM	19.14	0.28	19.42	87.50	1
132572	1770	132644	1777.2	QPSK	23.77	0.28	24.05	254.10	1
				16QAM	23.22	0.28	23.50	223.87	1
				64QAM	22.06	0.28	22.34	171.40	1
				256QAM	19.12	0.28	19.40	87.10	1

Combination 5MHz+10MHz (25RB+50RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132000	1712.8	132072	1720	QPSK	24.17	0.28	24.45	278.61	1
				16QAM	23.46	0.28	23.74	236.59	1
				64QAM	22.11	0.28	22.39	173.38	1
				256QAM	19.20	0.28	19.48	88.72	1
132375	1750.3	132447	1757.5	QPSK	23.78	0.28	24.06	254.68	1
				16QAM	23.14	0.28	23.42	219.79	1
				64QAM	21.88	0.28	22.16	164.44	1
				256QAM	19.08	0.28	19.36	86.30	1
132550	1767.8	132622	1775	QPSK	23.65	0.28	23.93	247.17	1
				16QAM	23.12	0.28	23.40	218.78	1



				64QAM	21.91	0.28	22.19	165.58	1
				256QAM	19.00	0.28	19.28	84.72	1
Combination 5MHz+5MHz (25RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	132045	1717.3	QPSK	24.16	0.28	24.44	277.97	1
				16QAM	23.41	0.28	23.69	233.88	1
				64QAM	22.05	0.28	22.33	171.00	1
				256QAM	19.16	0.28	19.44	87.90	1
132398	1777.5	132446	1782.3	QPSK	23.79	0.28	24.07	255.27	1
				16QAM	23.17	0.28	23.45	221.31	1
				64QAM	21.94	0.28	22.22	166.72	1
				256QAM	19.05	0.28	19.33	85.70	1
132599	1772.7	132647	1777.5	QPSK	23.66	0.28	23.94	247.74	1
				16QAM	23.13	0.28	23.41	219.28	1
				64QAM	22.05	0.28	22.33	171.00	1
				256QAM	19.07	0.28	19.35	86.10	1



LTE Band CA_66C

CA_66C_Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132270	1739.8	QPSK	24.26	0.28	24.54	284.45	1
				16QAM	23.57	0.28	23.85	242.66	1
				64QAM	22.43	0.28	22.71	186.64	1
				256QAM	19.39	0.28	19.67	92.68	1
132323	1745.1	132521	1764.9	QPSK	24.09	0.28	24.37	273.53	1
				16QAM	23.48	0.28	23.76	237.68	1
				64QAM	22.39	0.28	22.67	184.93	1
				256QAM	19.31	0.28	19.59	90.99	1
132374	1750.2	132572	1770	QPSK	24.06	0.28	24.34	271.64	1
				16QAM	23.39	0.28	23.67	232.81	1
				64QAM	22.30	0.28	22.58	181.13	1
				256QAM	19.29	0.28	19.57	90.57	1
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132243	1737.1	QPSK	24.07	0.28	24.35	272.27	1
				16QAM	23.33	0.28	23.61	229.61	1
				64QAM	22.03	0.28	22.31	170.22	1
				256QAM	19.19	0.28	19.47	88.51	1
132348	1747.6	132519	1764.7	QPSK	23.79	0.28	24.07	255.27	1
				16QAM	23.21	0.28	23.49	223.36	1
				64QAM	22.17	0.28	22.45	175.79	1
				256QAM	19.04	0.28	19.32	85.51	1
132423	1755.1	132594	1772.2	QPSK	23.79	0.28	24.07	255.27	1
				16QAM	23.14	0.28	23.42	219.79	1
				64QAM	22.01	0.28	22.29	169.43	1
				256QAM	19.03	0.28	19.31	85.31	1
Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132050	1717.8	132221	1734.9	QPSK	24.02	0.28	24.30	269.15	1
				16QAM	23.26	0.28	23.54	225.94	1
				64QAM	22.08	0.28	22.36	172.19	1



				256QAM	19.14	0.28	19.42	87.50	1
132325	1745.3	132496	1762.4	QPSK	23.80	0.28	24.08	255.86	1
				16QAM	23.09	0.28	23.37	217.27	1
				64QAM	22.15	0.28	22.43	174.98	1
				256QAM	19.02	0.28	19.30	85.11	1
132401	1752.9	132572	1770	QPSK	23.84	0.28	24.12	258.23	1
				16QAM	23.02	0.28	23.30	213.80	1
				64QAM	22.04	0.28	22.32	170.61	1
				256QAM	18.97	0.28	19.25	84.14	1

Combination 20MHz+10MHz (100RB+50RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132216	1734.4	QPSK	24.01	0.28	24.29	268.53	1
				16QAM	23.27	0.28	23.55	226.46	1
				64QAM	21.99	0.28	22.27	168.66	1
				256QAM	19.16	0.28	19.44	87.90	1
132373	1750.1	132517	1764.5	QPSK	23.71	0.28	23.99	250.61	1
				16QAM	23.03	0.28	23.31	214.29	1
				64QAM	22.21	0.28	22.49	177.42	1
				256QAM	18.88	0.28	19.16	82.41	1
132473	1760.1	132617	1774.5	QPSK	23.70	0.28	23.98	250.03	1
				16QAM	22.98	0.28	23.26	211.84	1
				64QAM	22.04	0.28	22.32	170.61	1
				256QAM	18.97	0.28	19.25	84.14	1

Combination 10MHz+20MHz (50RB+100RB)

PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132027	1715.5	132171	1729.9	QPSK	23.93	0.28	24.21	263.63	1
				16QAM	23.30	0.28	23.58	228.03	1
				64QAM	22.07	0.28	22.35	171.79	1
				256QAM	19.04	0.28	19.32	85.51	1
132328	1745.6	132472	1760	QPSK	23.66	0.28	23.94	247.74	1
				16QAM	23.03	0.28	23.31	214.29	1
				64QAM	22.17	0.28	22.45	175.79	1
				256QAM	18.87	0.28	19.15	82.22	1
132428	1755.6	132572	1770	QPSK	23.78	0.28	24.06	254.68	1
				16QAM	22.98	0.28	23.26	211.84	1



				64QAM	22.03	0.28	22.31	170.22	1
				256QAM	19.06	0.28	19.34	85.90	1
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132197	1732.5	QPSK	24.03	0.28	24.31	269.77	1
				16QAM	23.08	0.28	23.36	216.77	1
				64QAM	21.96	0.28	22.24	167.49	1
				256QAM	18.92	0.28	19.20	83.18	1
132347	1747.5	132497	1762.5	QPSK	23.60	0.28	23.88	244.34	1
				16QAM	22.86	0.28	23.14	206.06	1
				64QAM	22.03	0.28	22.31	170.22	1
				256QAM	18.78	0.28	19.06	80.54	1
132447	1757.5	132597	1772.5	QPSK	23.63	0.28	23.91	246.04	1
				16QAM	22.92	0.28	23.20	208.93	1
				64QAM	22.11	0.28	22.39	173.38	1
				256QAM	19.03	0.28	19.31	85.31	1
Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132167	1729.5	QPSK	24.12	0.28	24.40	275.42	1
				16QAM	23.35	0.28	23.63	230.67	1
				64QAM	22.26	0.28	22.54	179.47	1
				256QAM	19.29	0.28	19.57	90.57	1
132373	1750.1	132493	1762.1	QPSK	23.87	0.28	24.15	260.02	1
				16QAM	23.41	0.28	23.69	233.88	1
				64QAM	22.26	0.28	22.54	179.47	1
				256QAM	19.10	0.28	19.38	86.70	1
132499	1762.7	132619	1774.7	QPSK	23.86	0.28	24.14	259.42	1
				16QAM	23.23	0.28	23.51	224.39	1
				64QAM	22.05	0.28	22.33	171.00	1
				256QAM	19.18	0.28	19.46	88.31	1
Combination 10MHz+15MHz (50RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132025	1715.3	132145	1727.3	QPSK	24.02	0.28	24.30	269.15	1
				16QAM	23.22	0.28	23.50	223.87	1
				64QAM	22.20	0.28	22.48	177.01	1
				256QAM	19.25	0.28	19.53	89.74	1


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132351	1747.9	132471	1759.9	QPSK	23.77	0.28	24.05	254.10	1
				16QAM	23.38	0.28	23.66	232.27	1
				64QAM	22.12	0.28	22.40	173.78	1
				256QAM	18.97	0.28	19.25	84.14	1
132477	1760.5	132597	1772.5	QPSK	23.82	0.28	24.10	257.04	1
				16QAM	23.09	0.28	23.37	217.27	1
				64QAM	21.94	0.28	22.22	166.72	1
				256QAM	19.04	0.28	19.32	85.51	1
Combination 20MHz+5MHz (100RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132189	1731.7	QPSK	24.00	0.28	24.28	267.92	1
				16QAM	23.24	0.28	23.52	224.91	1
				64QAM	22.14	0.28	22.42	174.58	1
				256QAM	19.27	0.28	19.55	90.16	1
132397	1752.5	132514	1764.2	QPSK	23.76	0.28	24.04	253.51	1
				16QAM	23.32	0.28	23.60	229.09	1
				64QAM	22.13	0.28	22.41	174.18	1
				256QAM	18.95	0.28	19.23	83.75	1
132522	1765	132639	1776.7	QPSK	23.76	0.28	24.04	253.51	1
				16QAM	23.11	0.28	23.39	218.27	1
				64QAM	21.97	0.28	22.25	167.88	1
				256QAM	19.14	0.28	19.42	87.50	1
Combination 5MHz+20MHz (25RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
132005	1713.3	132122	1725	QPSK	23.98	0.28	24.26	266.69	1
				16QAM	23.24	0.28	23.52	224.91	1
				64QAM	22.15	0.28	22.43	174.98	1
				256QAM	19.19	0.28	19.47	88.51	1
132330	1745.8	132447	1757.5	QPSK	23.84	0.28	24.12	258.23	1
				16QAM	23.30	0.28	23.58	228.03	1
				64QAM	22.14	0.28	22.42	174.58	1
				256QAM	19.06	0.28	19.34	85.90	1
132455	1758.3	132572	1770	QPSK	23.85	0.28	24.13	258.82	1
				16QAM	23.21	0.28	23.49	223.36	1
				64QAM	21.99	0.28	22.27	168.66	1
				256QAM	19.11	0.28	19.39	86.90	1

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



3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

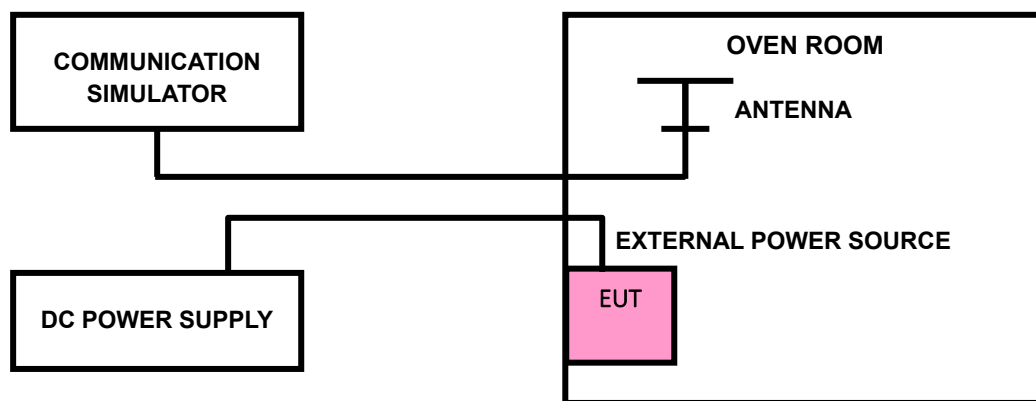
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 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





3.2.4 TEST RESULTS

LTE BAND CA_7C

LTE BAND CA_7C channel and Frequency` List					
BW(MHz)	Channel/Frequency(MHz)		Lowest	Middle	Highest
10+20	PCC	channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	channel	20949	21150	21350
		Frequency	2519.9	2540	2560
15+10	PCC	channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7
15+15	PCC	channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15+20	PCC	channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560
20+10	PCC	channel	20850	21051	21251
		Frequency	2510	2530.1	2550.1
	SCC	channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
20+15	PCC	channel	20850	21026	21201
		Frequency	2510	2527.6	2545.1
	SCC	channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
20+20	PCC	channel	20850	21001	21152
		Frequency	2510	2525.1	2540.2
	SCC	channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560



LTE BAND CA_12B channel and Frequency List					
BW(MHz)	Channel/Frequncy(MHz)		Lowest	Middle	Highest
5+10	PCC	channel	23038	23048	23058
		Frequncy	701.8	702.8	703.8
	SCC	channel	23110	23120	23130
		Frequncy	709	710	711
5+5	PCC	channel	23035	23071	23107
		Frequncy	701.5	705.1	708.7
	SCC	channel	23083	23119	23155
		Frequncy	706.3	709.9	713.5

LTE BAND CA_38C

LTE BAND CA_38C channel and Frequency List					
BW(MHz)	Channel/Frequncy(MHz)		Lowest	Middle	Highest
15+15	PCC	channel	37825	37925	38025
		Frequncy	2577.5	2587.5	2597.5
	SCC	channel	37975	38075	38175
		Frequncy	2592.5	2602.5	2612.5
20+20	PCC	channel	37850	37901	37952
		Frequncy	2580.0	2585.1	2590.2
	SCC	channel	38048	38099	38150
		Frequncy	2599.8	2604.9	2610

LTE BAND CA_41C

LTE BAND CA_41C channel and Frequency List					
BW(MHz)	Channel/Frequncy(MHz)		Lowest	Middle	Highest
5+20	PCC	channel	39683	40528	41373
		Frequncy	2499.3	2583.8	2668.3
	SCC	channel	39800	40645	41490
		Frequncy	2511	2595.5	2680



10+15	PCC	channel	39703	40549	41395
		Frequncy	2501.3	2585.9	2670.5
	SCC	channel	39823	40669	41515
		Frequncy	2513.3	2597.9	2682.5
10+20	PCC	channel	39705	40526	41346
		Frequncy	2501.5	2583.6	2665.6
	SCC	channel	39849	40670	41490
		Frequncy	2515.9	2598.0	2680
15+10	PCC	channel	39725	40571	41417
		Frequncy	2503.5	2588.1	2672.7
	SCC	channel	39845	40691	41537
		Frequncy	2515.5	2600.1	2684.7
15+15	PCC	channel	39725	40545	41365
		Frequncy	2503.5	2585.5	2667.5
	SCC	channel	39875	40695	41515
		Frequncy	2518.5	2600.5	2682.5
15+20	PCC	channel	39728	40523	41319
		Frequncy	2503.8	2583.3	2662.9
	SCC	channel	39899	40694	41490
		Frequncy	2520.9	2600.4	2680
20+5	PCC	channel	39750	40595	41440
		Frequncy	2506	2590.5	2675
	SCC	channel	39867	40712	41557
		Frequncy	2517.7	2602.2	2686.7
20+10	PCC	channel	39750	40571	41391
		Frequncy	2506	2588.1	2670.1
	SCC	channel	39894	40715	41535
		Frequncy	2520.4	2602.5	2684.5
20+15	PCC	channel	39750	40546	41341
		Frequncy	2506	2585.6	2665.1
	SCC	channel	39921	40717	41512
		Frequncy	2523.1	2602.7	2682.2
20+20	PCC	channel	39750	40521	41292
		Frequncy	2506	2583.1	2660.2
	SCC	channel	39948	40719	41490



		Frequency	2525.8	2602.9	2680
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LTE BAND CA_66B

LTE BAND CA_66B channel and Frequency List					
BW(MHz)	Channel/Frequency(MHz)		Lowest	Middle	Highest
10+10	PCC	channel	132022	132373	132523
		Frequency	1715	1750.1	1765.1
	SCC	channel	132121	132472	132622
		Frequency	1724.9	1760	1775
15+5	PCC	channel	132002	132353	132504
		Frequency	1713	1748.1	1763.2
	SCC	channel	132095	132446	132597
		Frequency	1722.3	1757.4	1772.5
10+5	PCC	channel	132022	132397	132572
		Frequency	1715	1752.5	1770
	SCC	channel	132094	132469	132644
		Frequency	1722.2	1759.7	1777.2
5+10	PCC	channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	channel	132072	132447	132622
		Frequency	1720	1757.5	1775
5+5	PCC	channel	131997	132398	132599
		Frequency	1712.5	1777.5	1772.7
	SCC	channel	132045	132446	132647
		Frequency	1717.3	1782.3	1777.5



LTE BAND CA_66B channel and Frequency List					
BW(MHz)	Channel/Frequency(MHz)		Lowest	Middle	Highest
20+20	PCC	channel	132072	132323	132374
		Frequency	1720	1745.1	1750.2
	SCC	channel	132270	132521	132572
		Frequency	1739.8	1764.9	1770
20+15	PCC	channel	132072	132348	132423
		Frequency	1720	1747.6	1755.1
	SCC	channel	132243	132519	132594
		Frequency	1737.1	1764.7	1772.2
15+20	PCC	channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	channel	132221	132496	132572
		Frequency	1734.9	1762.4	1770
20+10	PCC	channel	132072	132373	132473
		Frequency	1720	1750.1	1760.1
	SCC	channel	132216	132517	132617
		Frequency	1734.4	1764.5	1774.5
10+20	PCC	channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	channel	132171	132472	132572
		Frequency	1729.9	1760	1770
15+15	PCC	channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	channel	132197	132497	132597
		Frequency	1732.5	1762.5	1772.5
15+10	PCC	channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10+15	PCC	channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	channel	132145	132471	132597
		Frequency	1727.3	1759.9	1772.5



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20+5	PCC	channel	132072	132397	132522
		Frequncy	1720	1752.5	1765
	SCC	channel	132189	132514	132639
		Frequncy	1731.7	1764.2	1776.7
5+20	PCC	channel	132005	132330	132455
		Frequncy	1713.3	1745.8	1758.3
	SCC	channel	132122	132447	132572
		Frequncy	1725	1757.5	1770

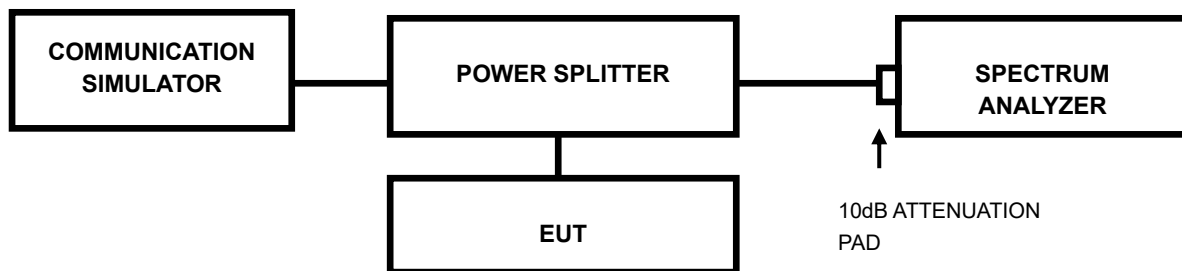
Note: VL = Low voltage(3.5V); VN/NV = Normal voltage(3.89V); VH = High voltage(4.48V);
NT = Normal temperature (25°C)



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.



3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.



3.4 BAND EDGE MEASUREMENT

3.4.2 LIMITS OF BAND EDGE MEASUREMENT

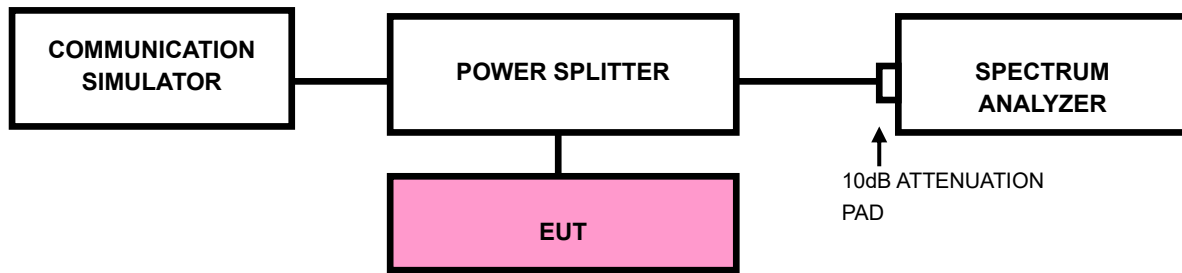
According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ 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.

According to FCC 27.53(h) specified that For operations in the 1710-1755 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 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.

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 that $43 + 10 \log (P)$ 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.



3.4.3 TEST SETUP





3.4.4 TEST PROCEDURES

- a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
- c) Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- e) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- f) Select the average power (RMS) display detector.
- g) Set the number of measurement points to ≥ 1001 .
- h) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- k) Record the max trace plot into the test report.

3.4.5 TEST RESULTS

Please Refer to Appendix Of this test report.



3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

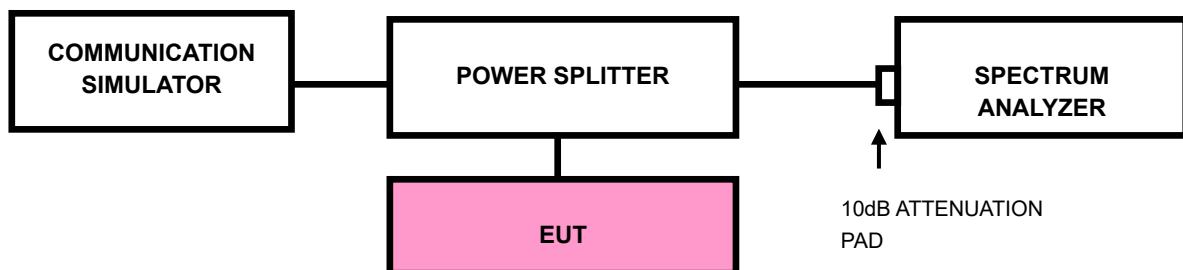
For: LTE Band7C/Band41C

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

For: LTE Band7C/ Band41C

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

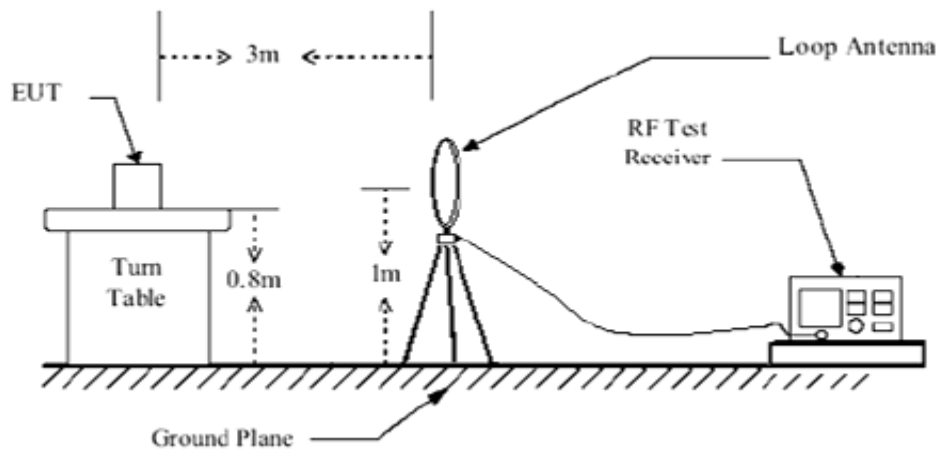
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

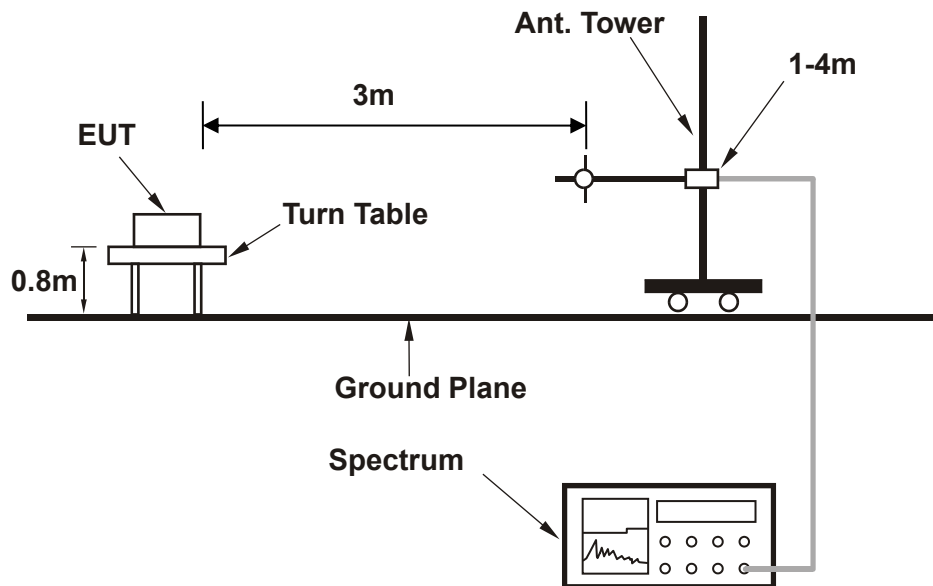


3.6.4 TEST SETUP

< Frequency Range below 30MHz >

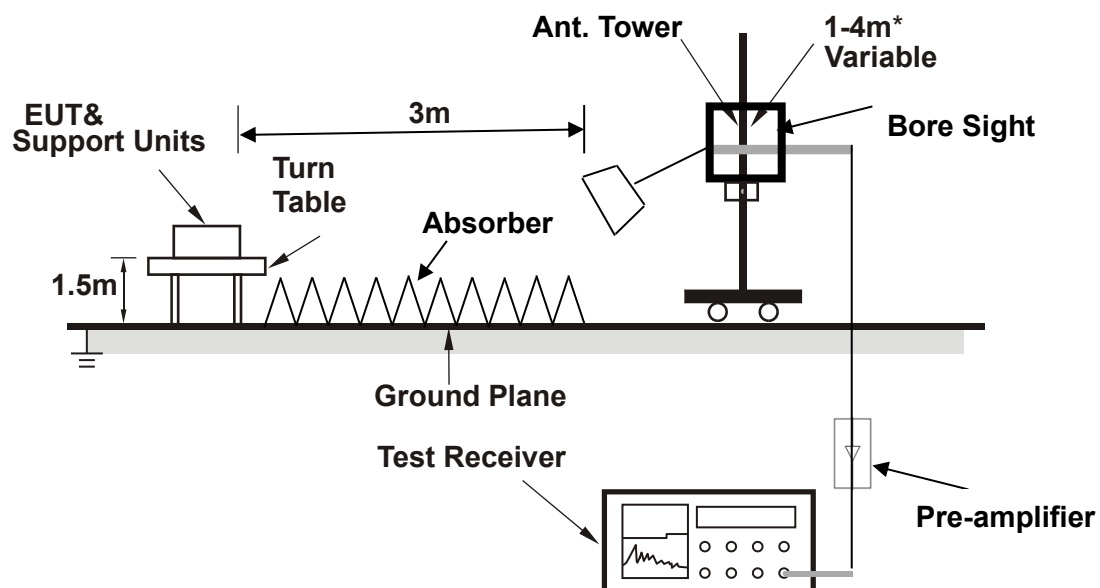


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

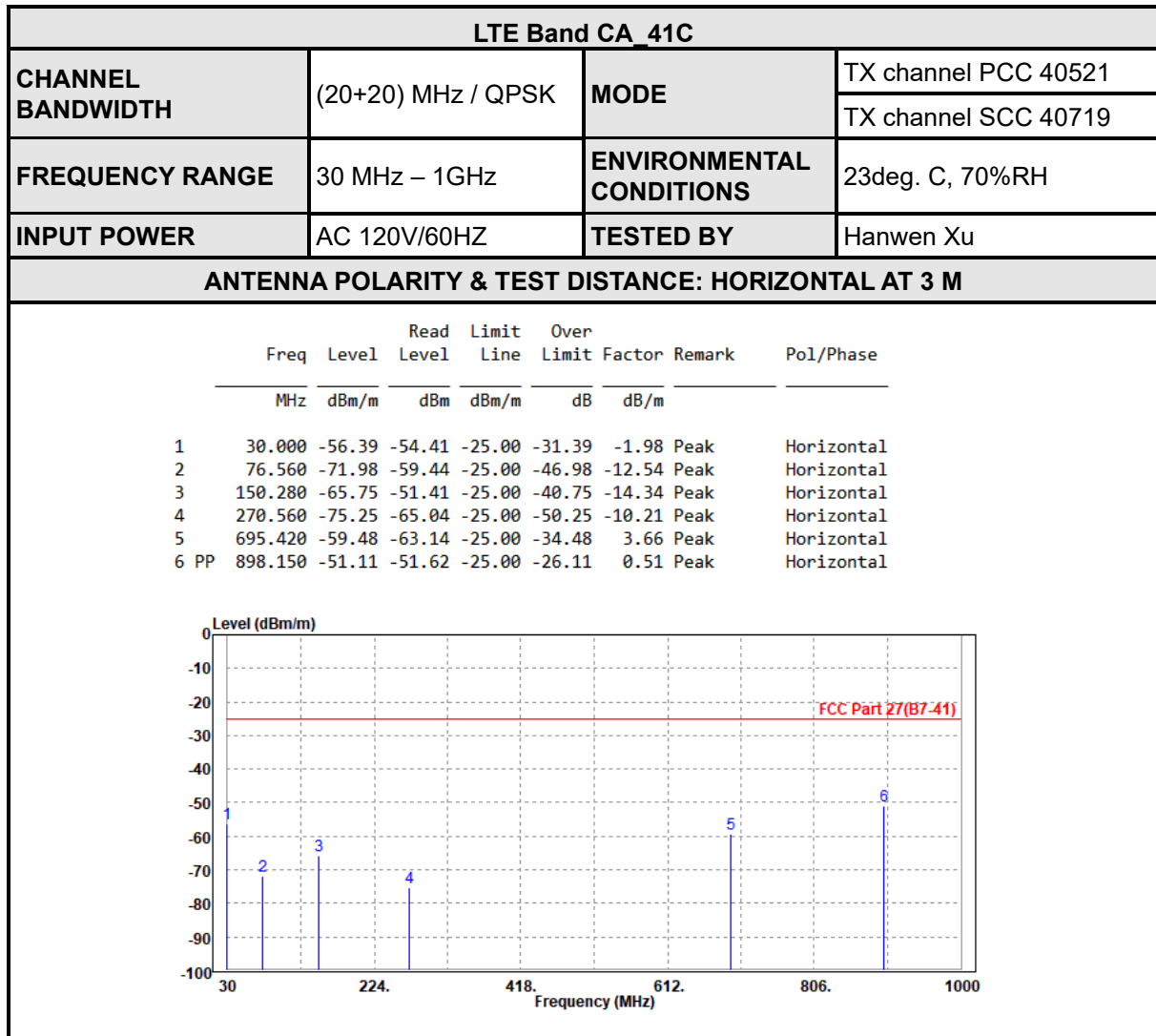
For the actual test configuration, please refer to the attached file (Test Setup Photo).

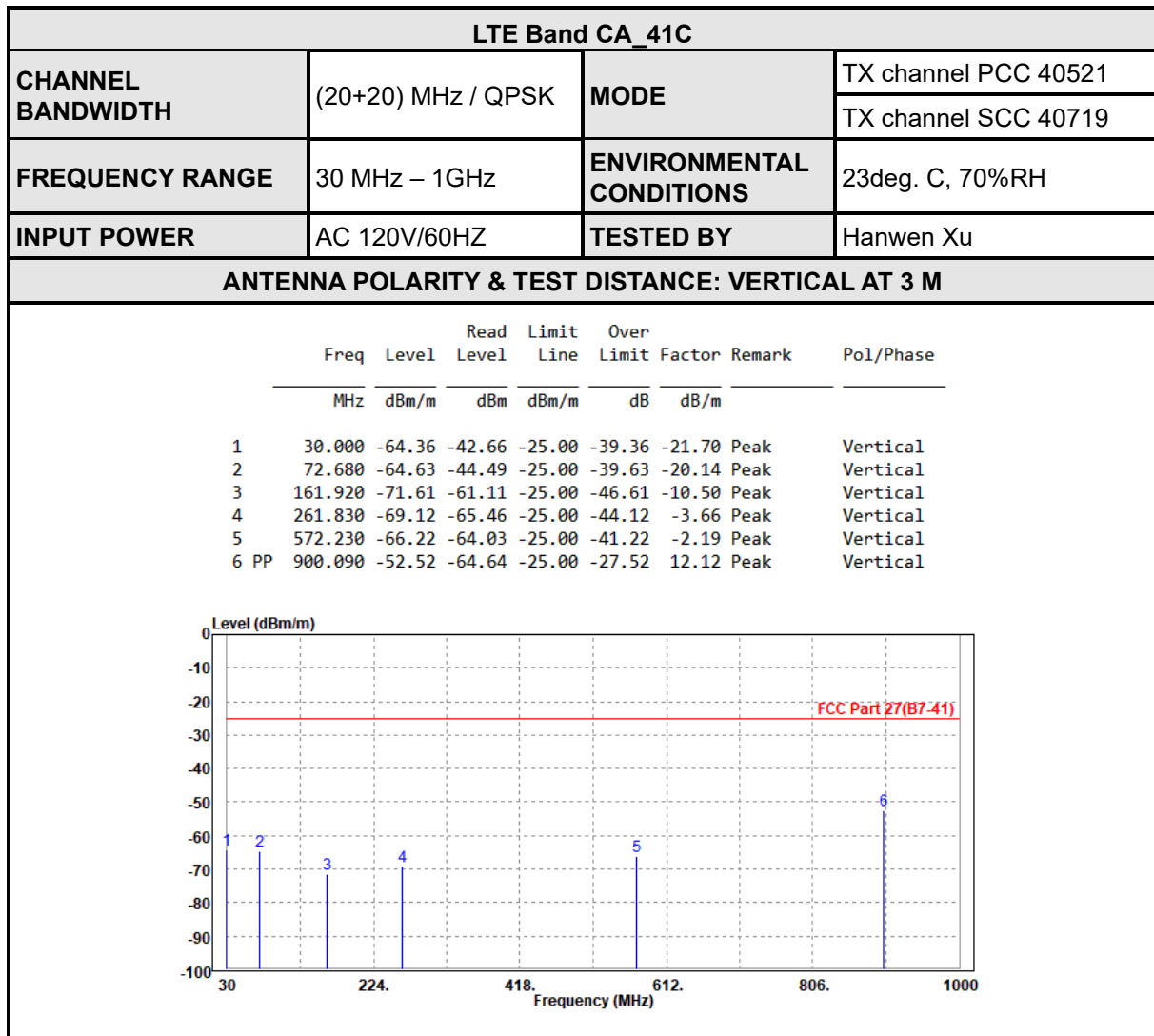


3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA







ABOVE 1GHz

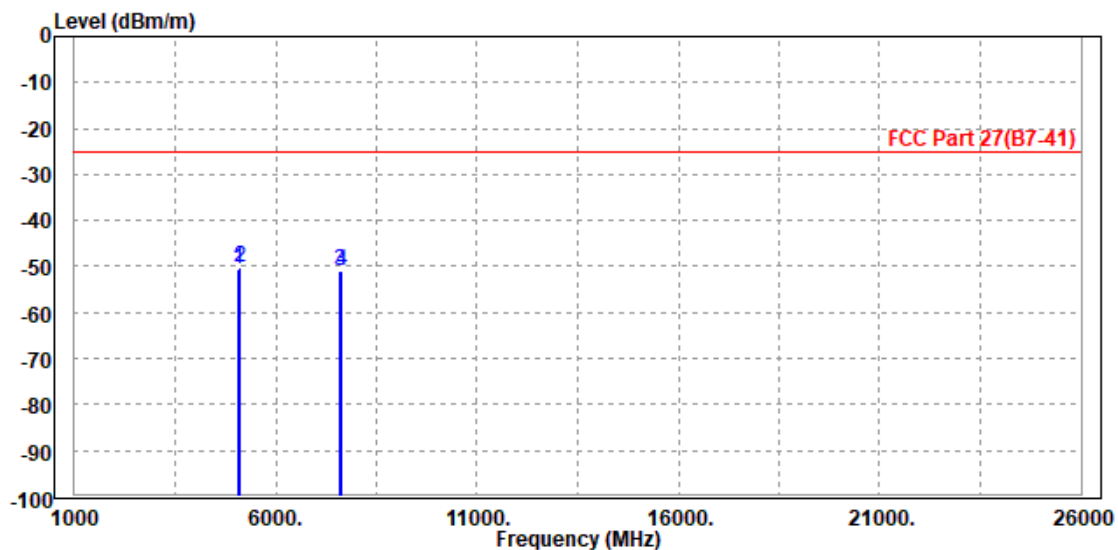
Note: For higher frequency, the emission is too low to be detected.

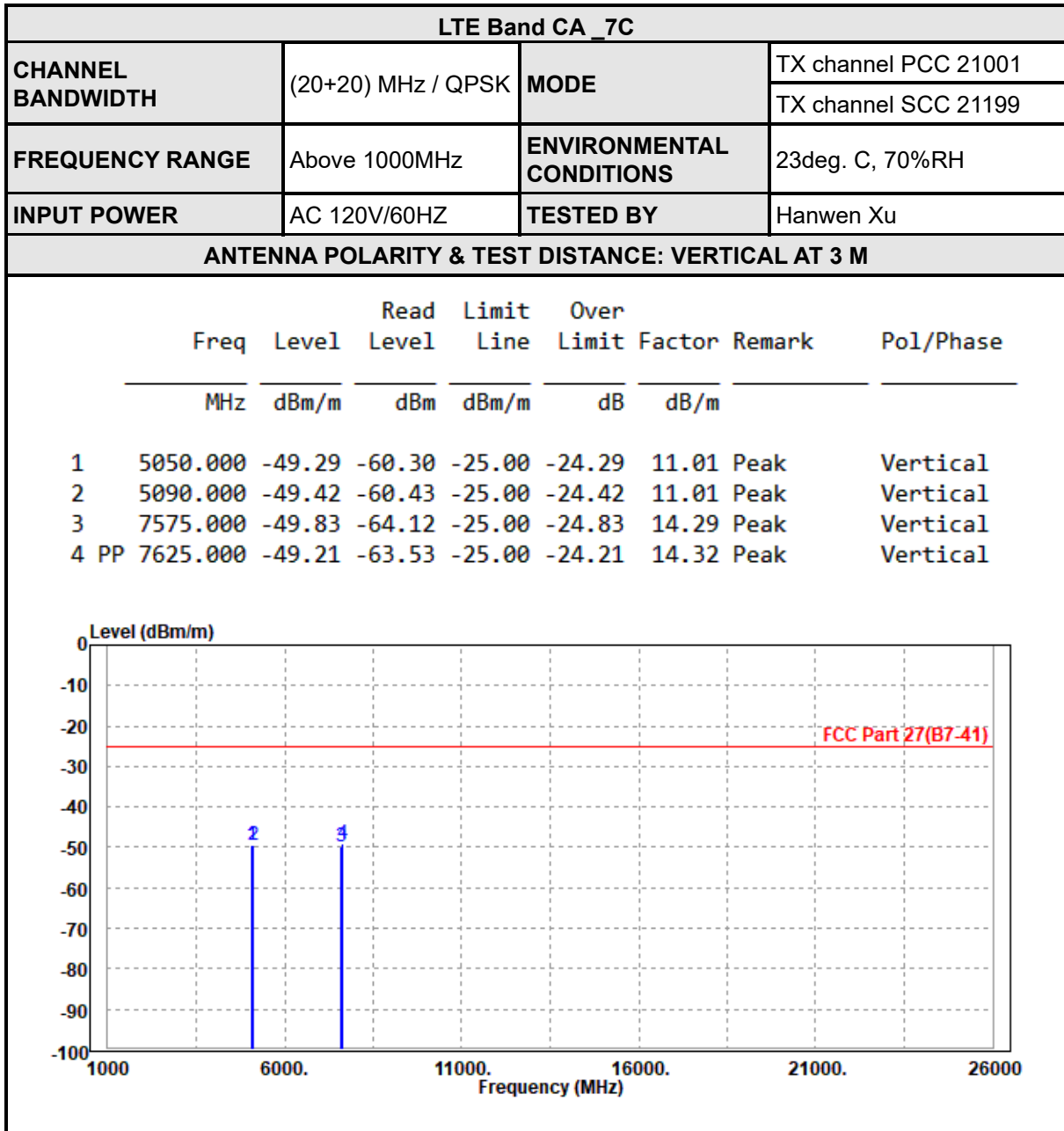
LTE Band CA_7C

CHANNEL BANDWIDTH	(20+20) MHz / QPSK	MODE	TX channel PCC 21001
			TX channel SCC 21199
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5050.000	-50.67	-61.22	-25.00	-25.67	10.55	Peak	Horizontal
2 PP	5090.000	-50.14	-60.72	-25.00	-25.14	10.58	Peak	Horizontal
3	7575.000	-50.94	-64.61	-25.00	-25.94	13.67	Peak	Horizontal
4	7635.000	-50.81	-64.62	-25.00	-25.81	13.81	Peak	Horizontal



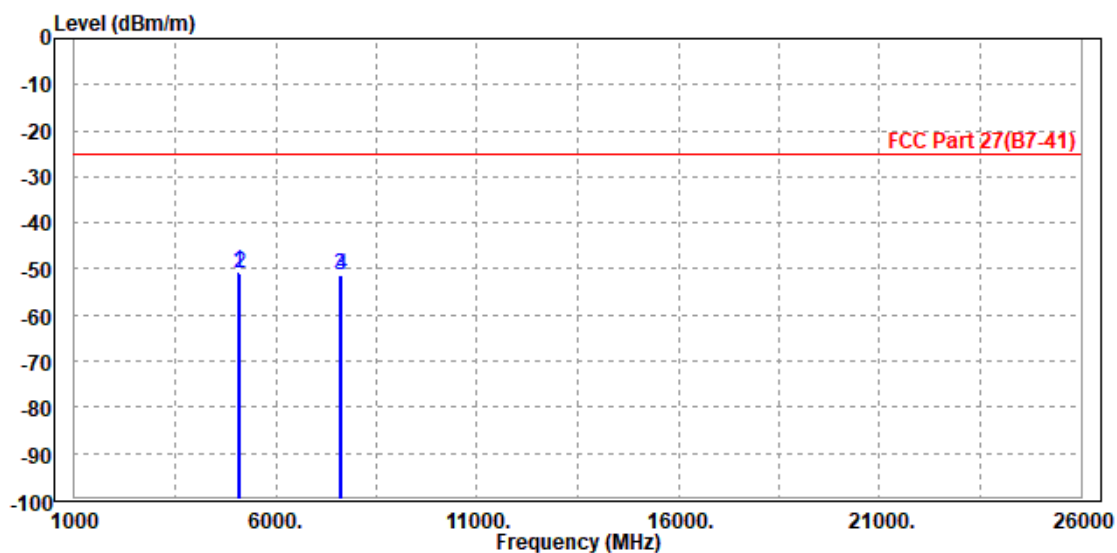




LTE Band CA_7C			
CHANNEL BANDWIDTH	(20+20) MHz / QPSK	MODE	TX channel PCC 21001
			TX channel SCC 21199
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	5050.000	-50.59	-61.14	-25.00	-25.59	10.55	Peak	Horizontal
2		5090.000	-50.92	-61.50	-25.00	-25.92	10.58	Peak	Horizontal
3		7575.000	-51.30	-64.97	-25.00	-26.30	13.67	Peak	Horizontal
4		7625.000	-51.45	-65.23	-25.00	-26.45	13.78	Peak	Horizontal





LTE Band CA_7C								
CHANNEL BANDWIDTH	(20+20) MHz / QPSK	MODE	TX channel PCC 21001					
			TX channel SCC 21199					
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH					
INPUT POWER	AC 120V/60HZ	TESTED BY	Hanwen Xu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5050.000	-49.97	-60.98	-25.00	-24.97	11.01	Peak	Vertical
2	5100.000	-50.01	-61.02	-25.00	-25.01	11.01	Peak	Vertical
3	7575.000	-50.26	-64.55	-25.00	-25.26	14.29	Peak	Vertical
4	7635.000	-50.34	-64.66	-25.00	-25.34	14.32	Peak	Vertical

Level (dBm/m)

FCC Part 27(B7-41)

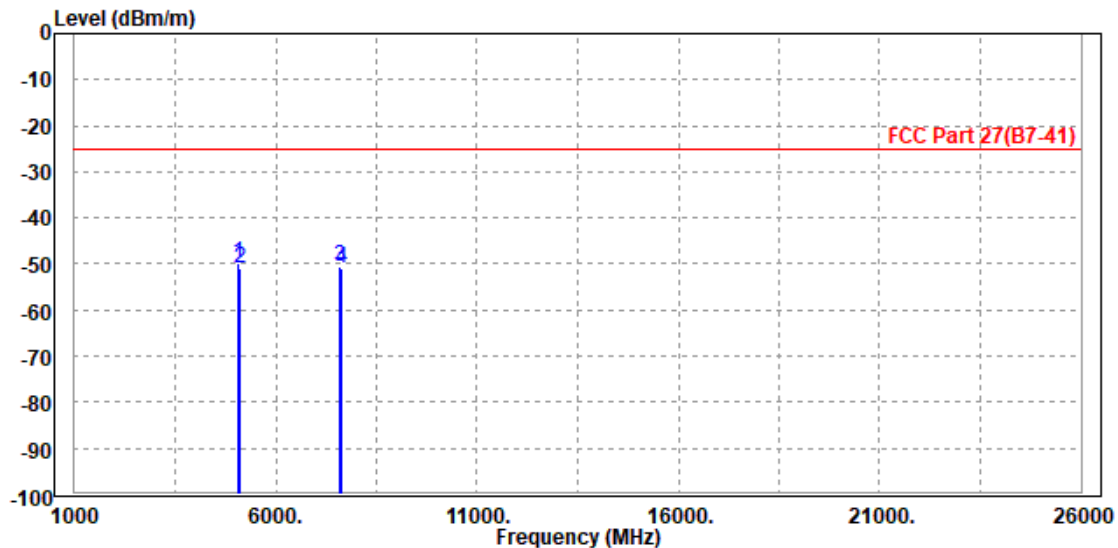
Frequency (MHz)

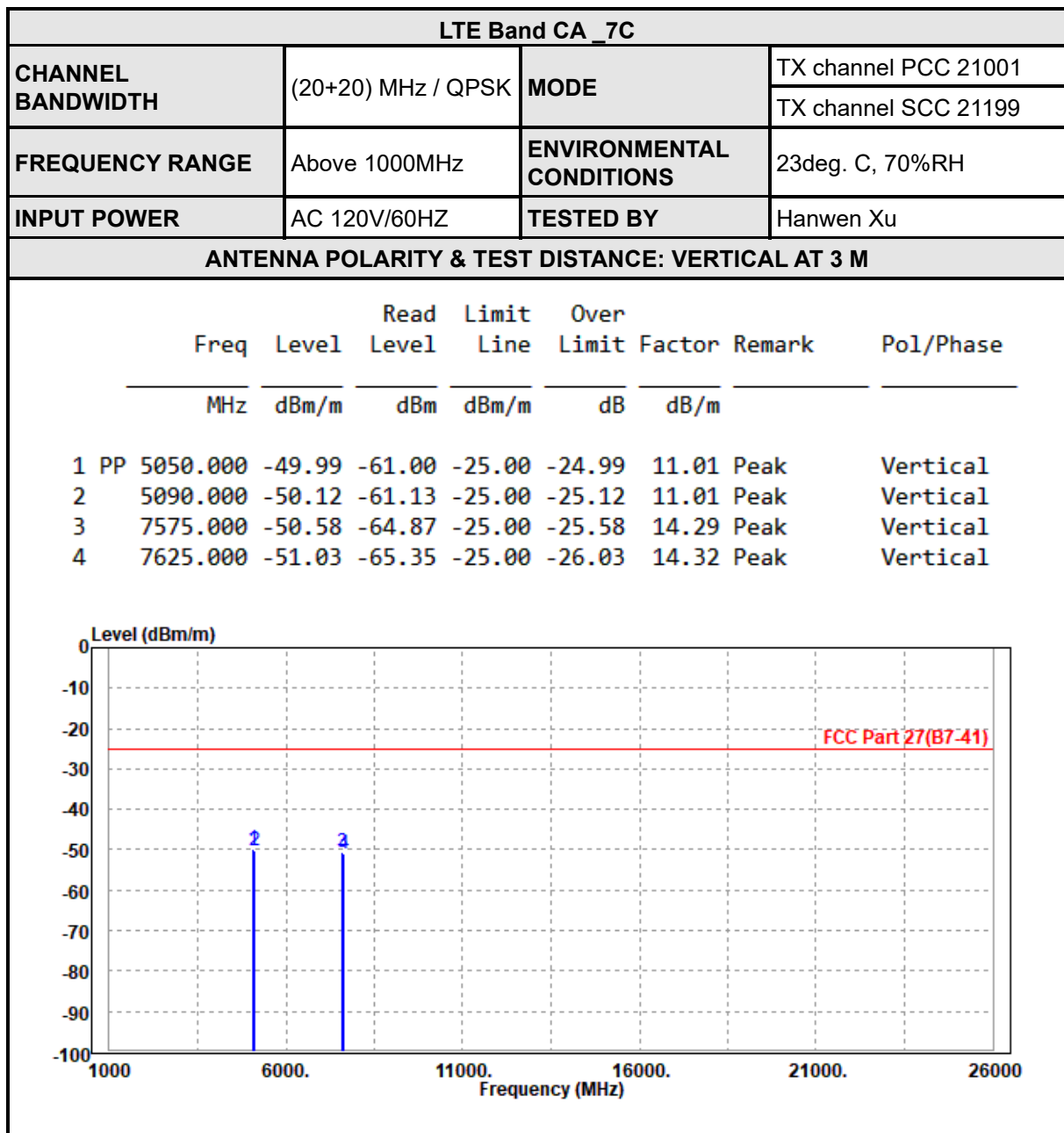


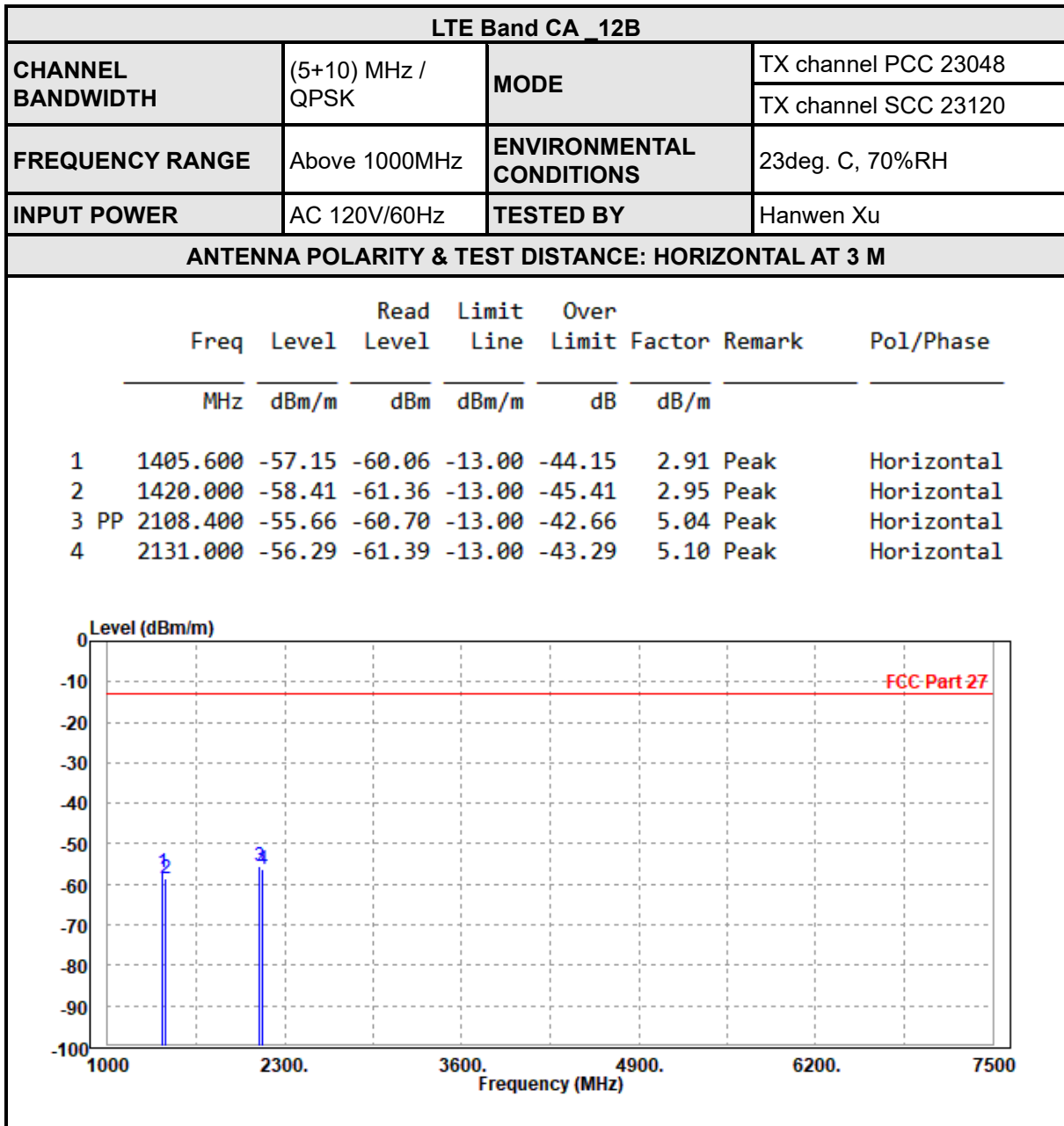
LTE Band CA_7C			
CHANNEL BANDWIDTH	(20+20) MHz / QPSK	MODE	TX channel PCC 21001
			TX channel SCC 21199
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60HZ	TESTED BY	Hanwen Xu

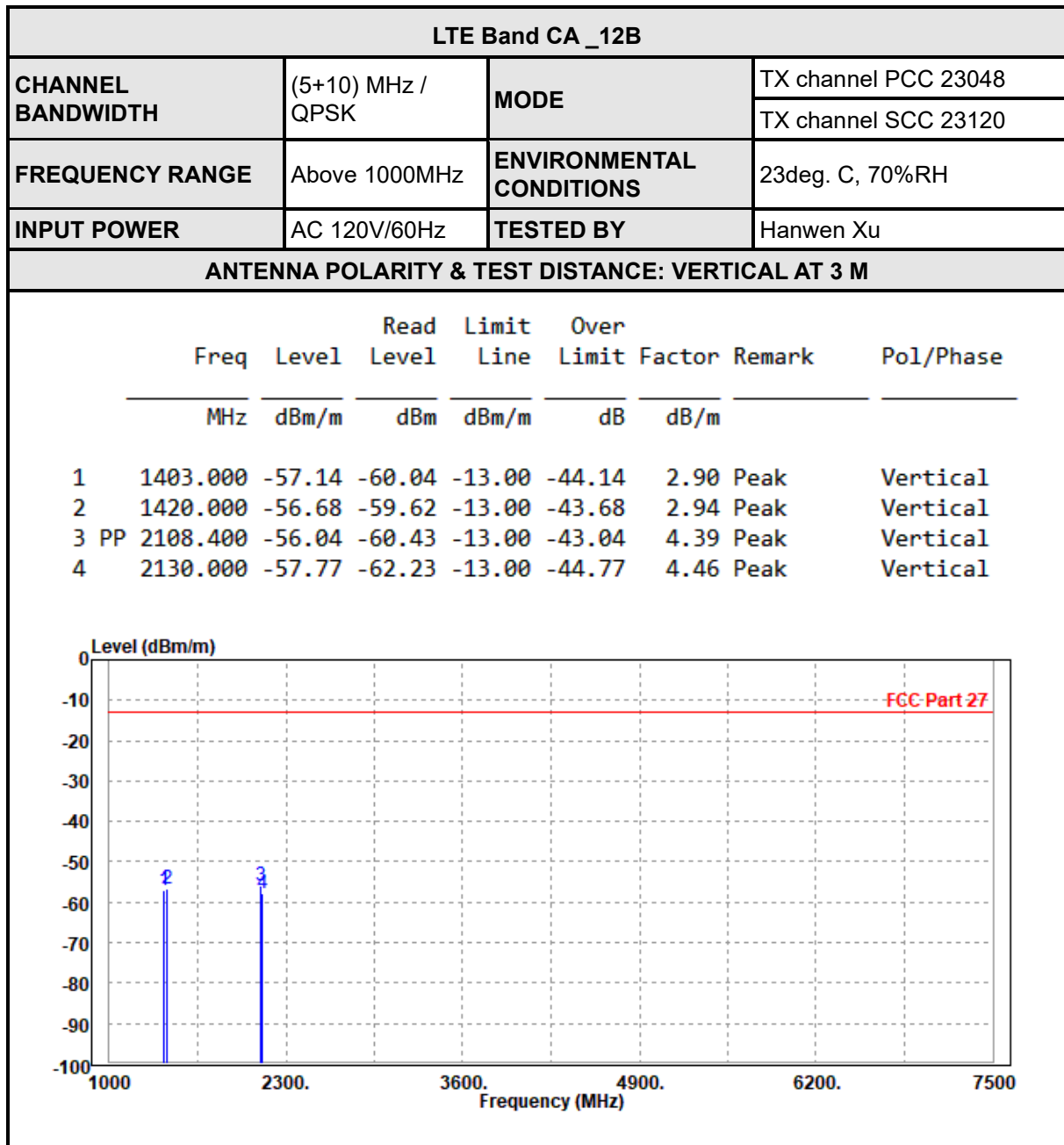
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	5050.000	-49.73	-60.28	-25.00	-24.73	10.55	Peak	Horizontal
2		5100.000	-51.04	-61.62	-25.00	-26.04	10.58	Peak	Horizontal
3		7575.000	-50.74	-64.41	-25.00	-25.74	13.67	Peak	Horizontal
4		7635.000	-51.08	-64.89	-25.00	-26.08	13.81	Peak	Horizontal







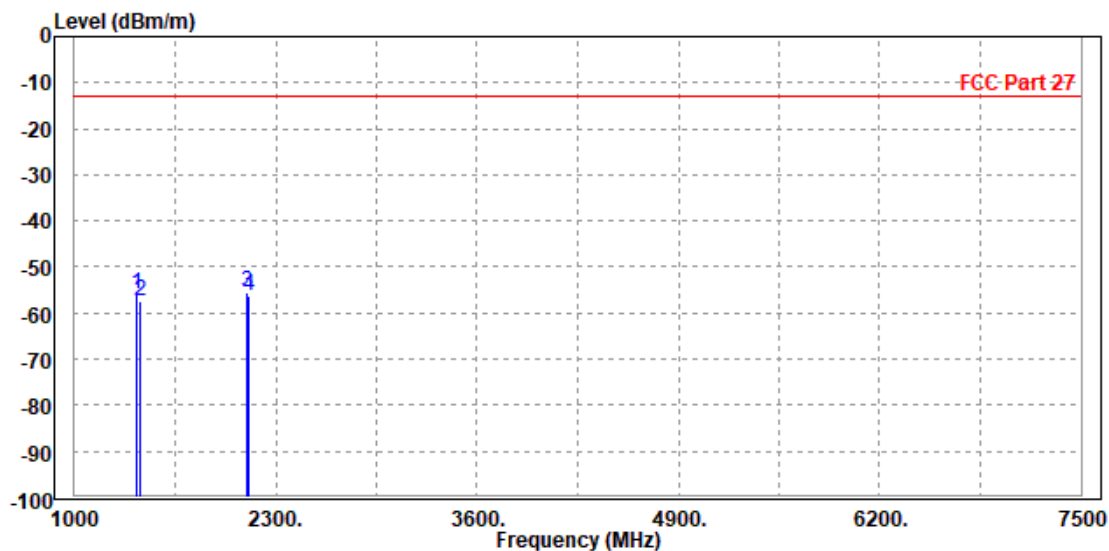


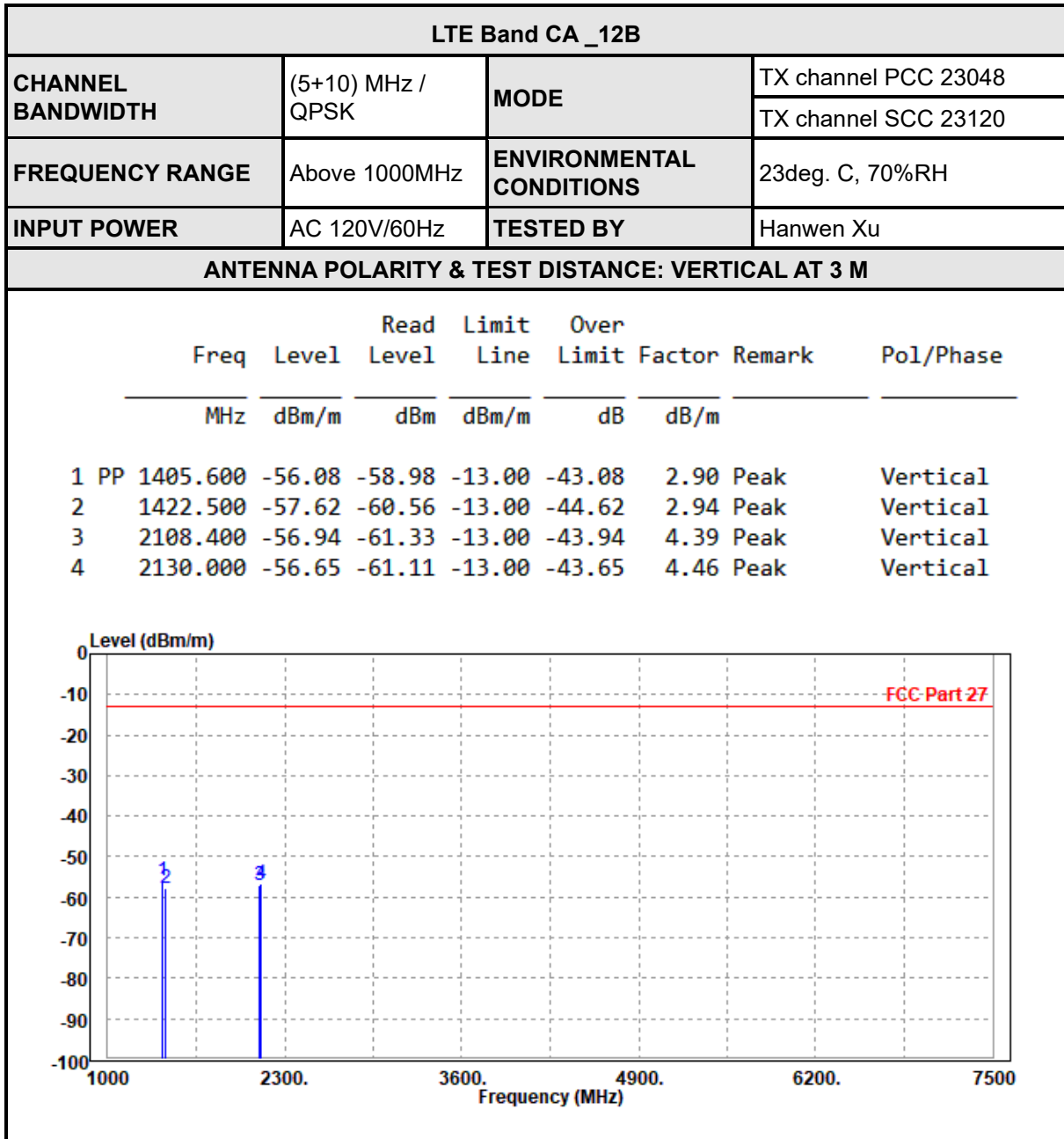


LTE Band CA_12B			
CHANNEL BANDWIDTH	(5+10) MHz / QPSK	MODE	TX channel PCC 23048
			TX channel SCC 23120
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60Hz	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1403.000	-55.86	-58.76	-13.00	-42.86	2.90	Peak	Horizontal
2	1420.000	-57.25	-60.20	-13.00	-44.25	2.95	Peak	Horizontal
3 PP	2108.400	-55.44	-60.48	-13.00	-42.44	5.04	Peak	Horizontal
4	2130.000	-56.15	-61.25	-13.00	-43.15	5.10	Peak	Horizontal





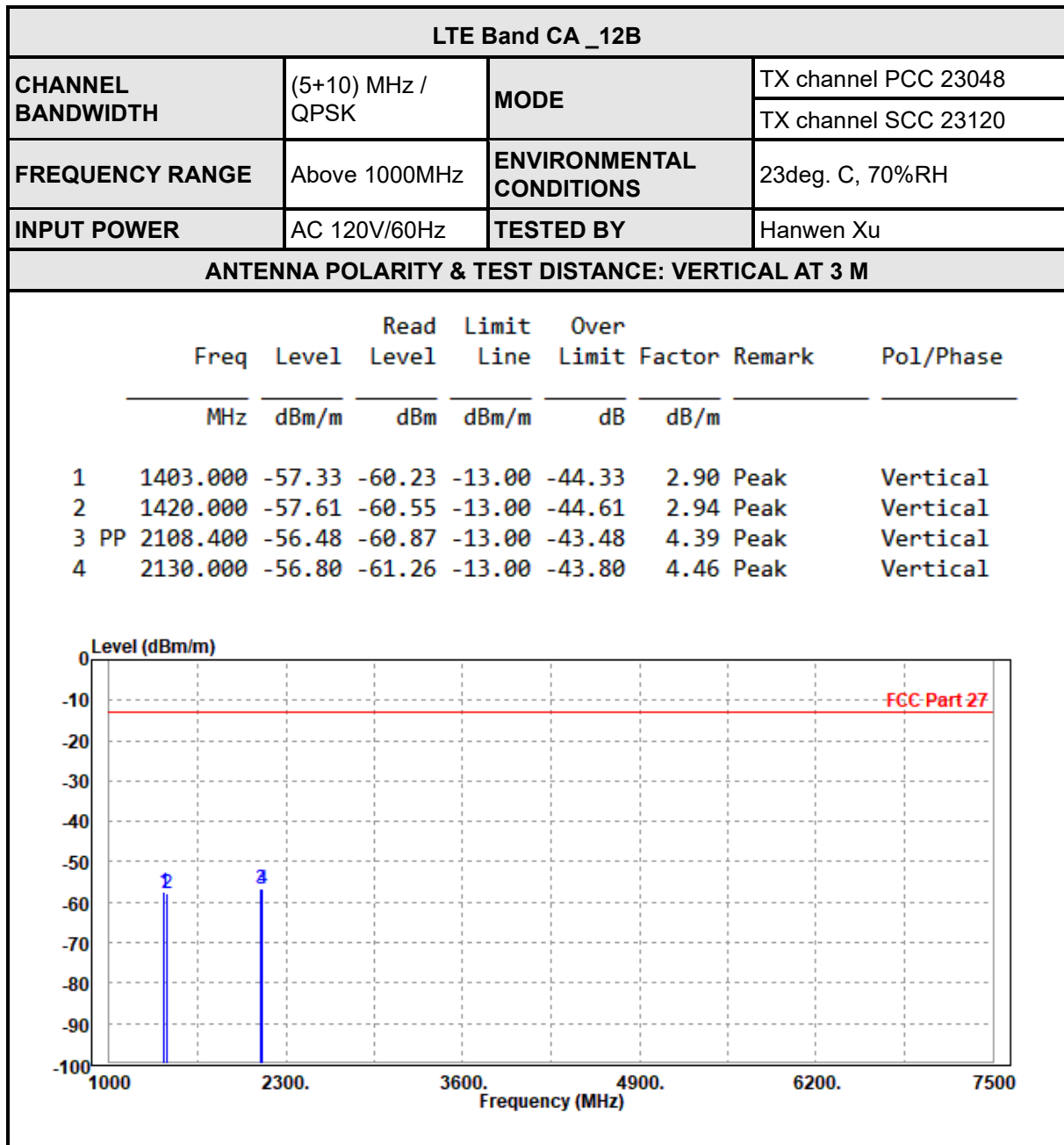


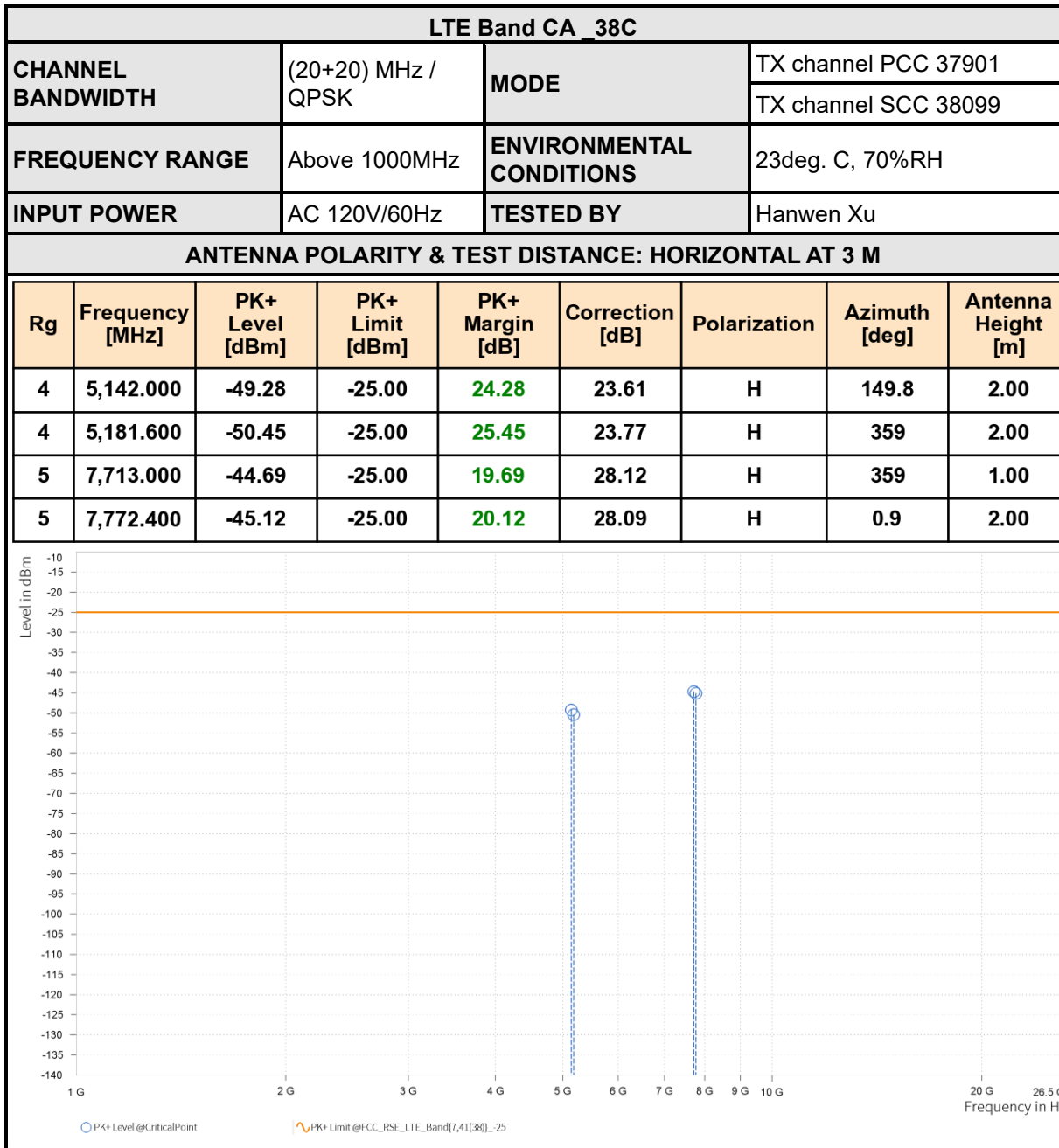
LTE Band CA_12B								
CHANNEL BANDWIDTH	(5+10) MHz / QPSK	MODE	TX channel PCC 23048					
			TX channel SCC 23120					
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH					
INPUT POWER	AC 120V/60Hz	TESTED BY	Hanwen Xu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1405.600	-58.13	-61.04	-13.00	-45.13	2.91	Peak	Horizontal
2	1422.500	-57.11	-60.07	-13.00	-44.11	2.96	Peak	Horizontal
3	2108.400	-56.83	-61.87	-13.00	-43.83	5.04	Peak	Horizontal
4 PP	2130.000	-56.12	-61.22	-13.00	-43.12	5.10	Peak	Horizontal

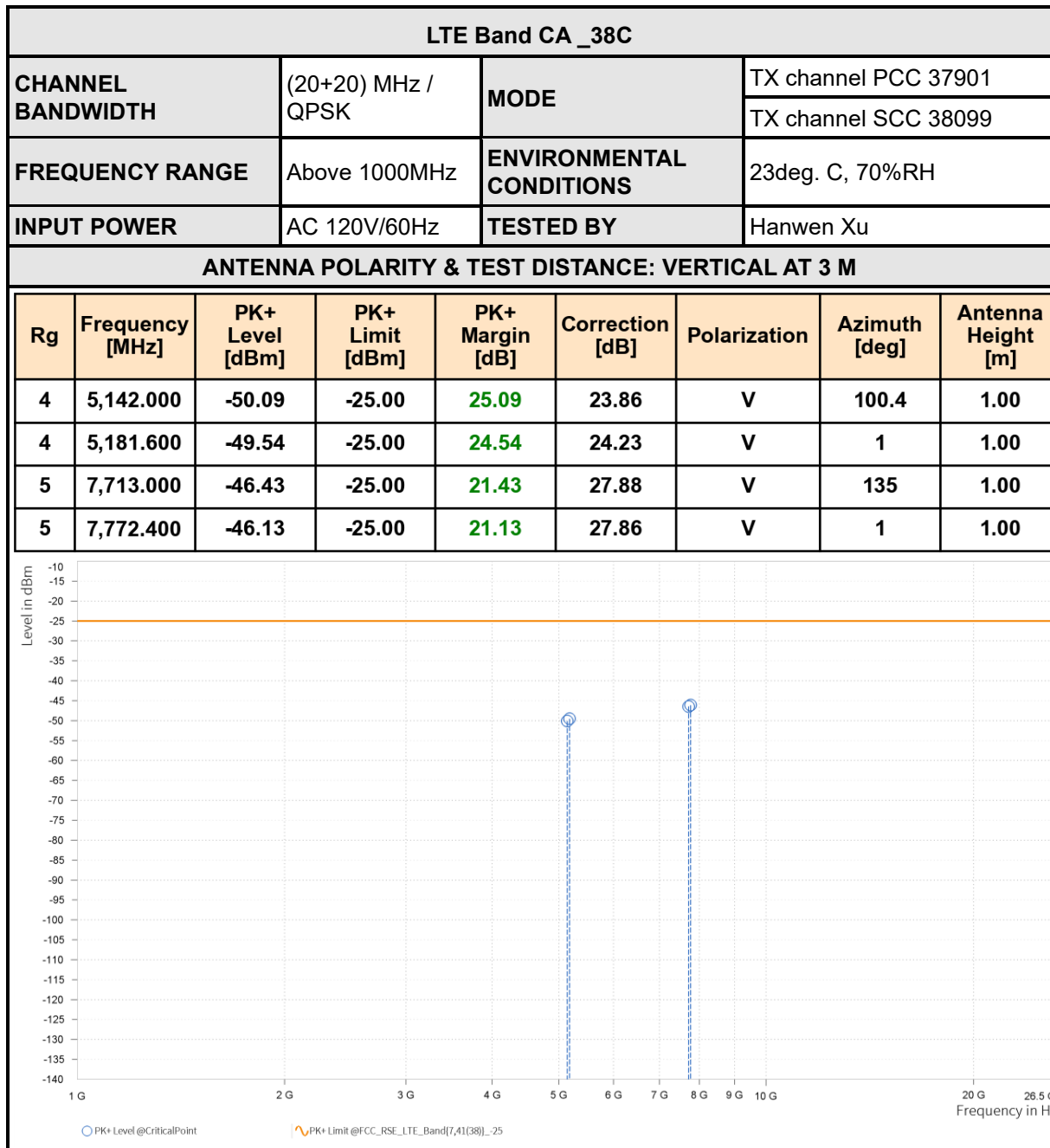
Level (dBm/m)

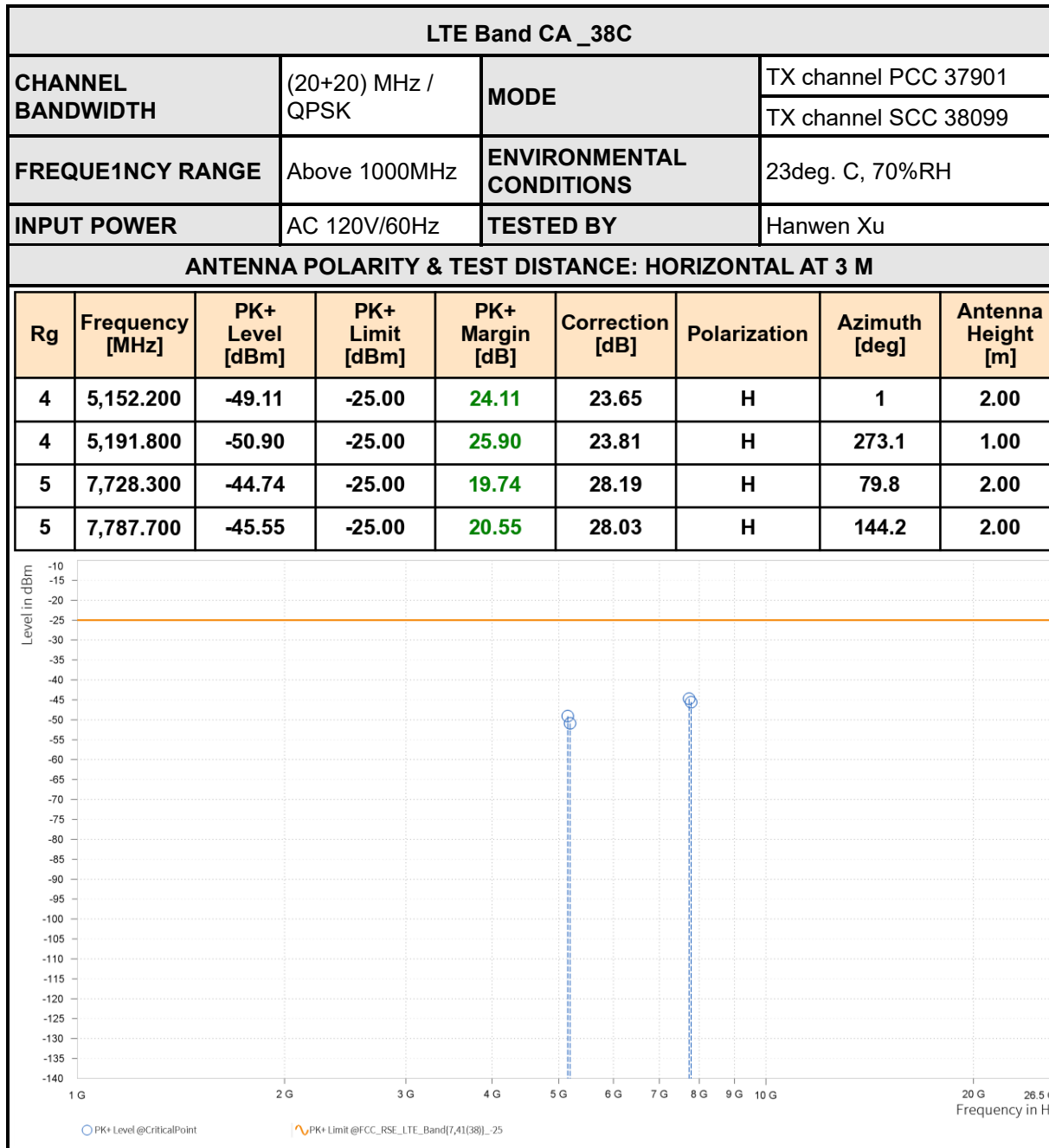
Frequency (MHz)

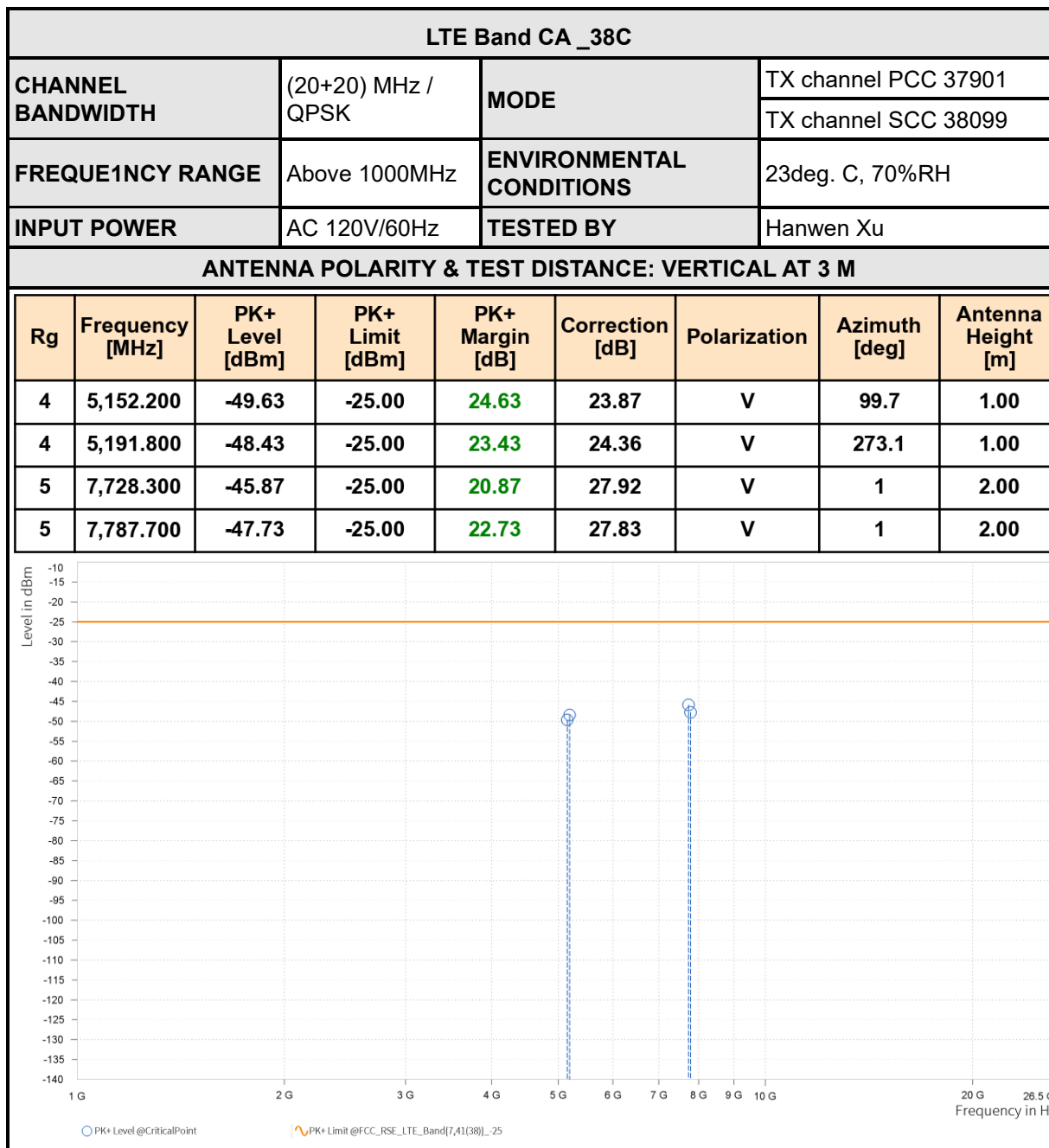
FCC-Part 27

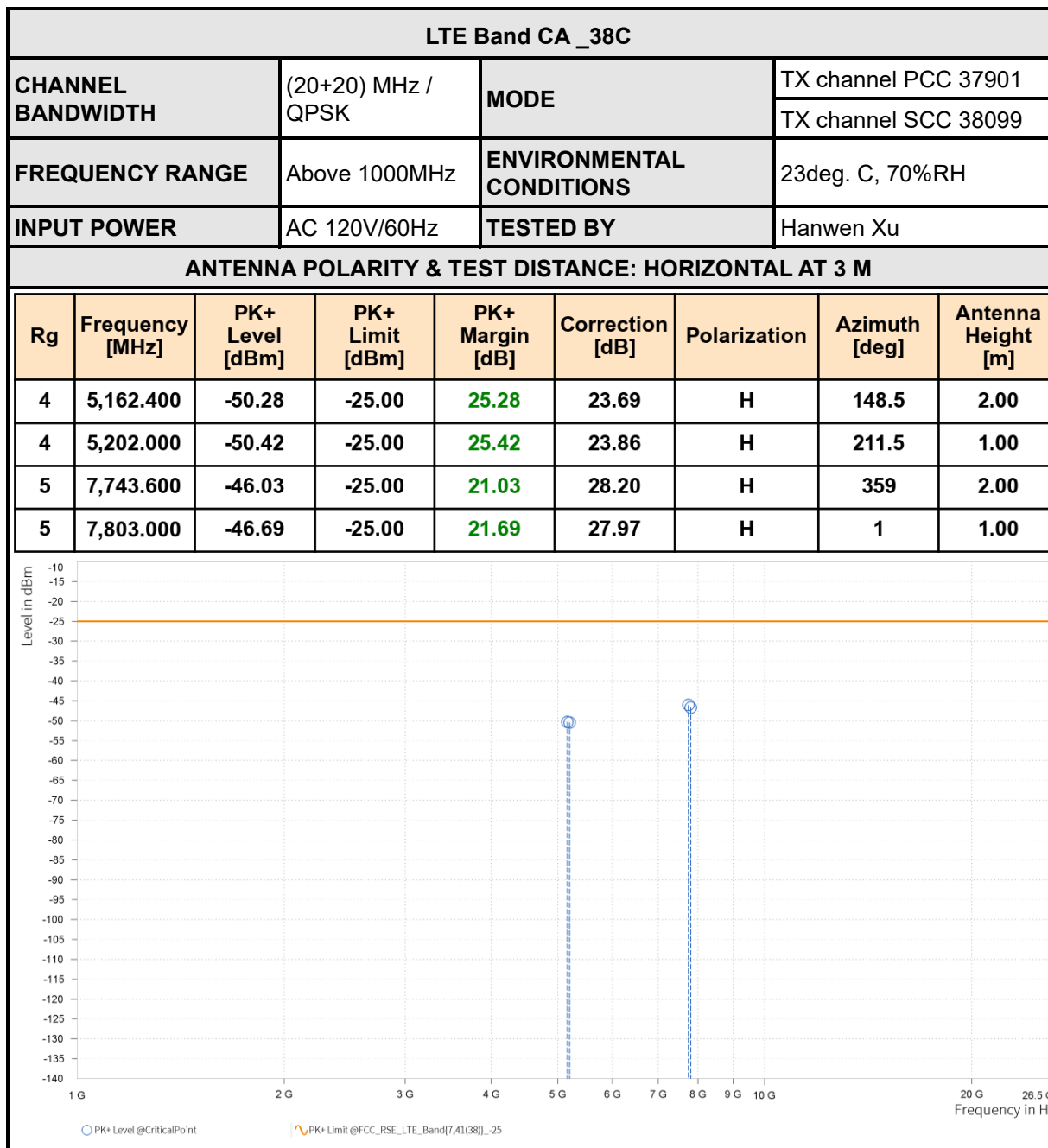


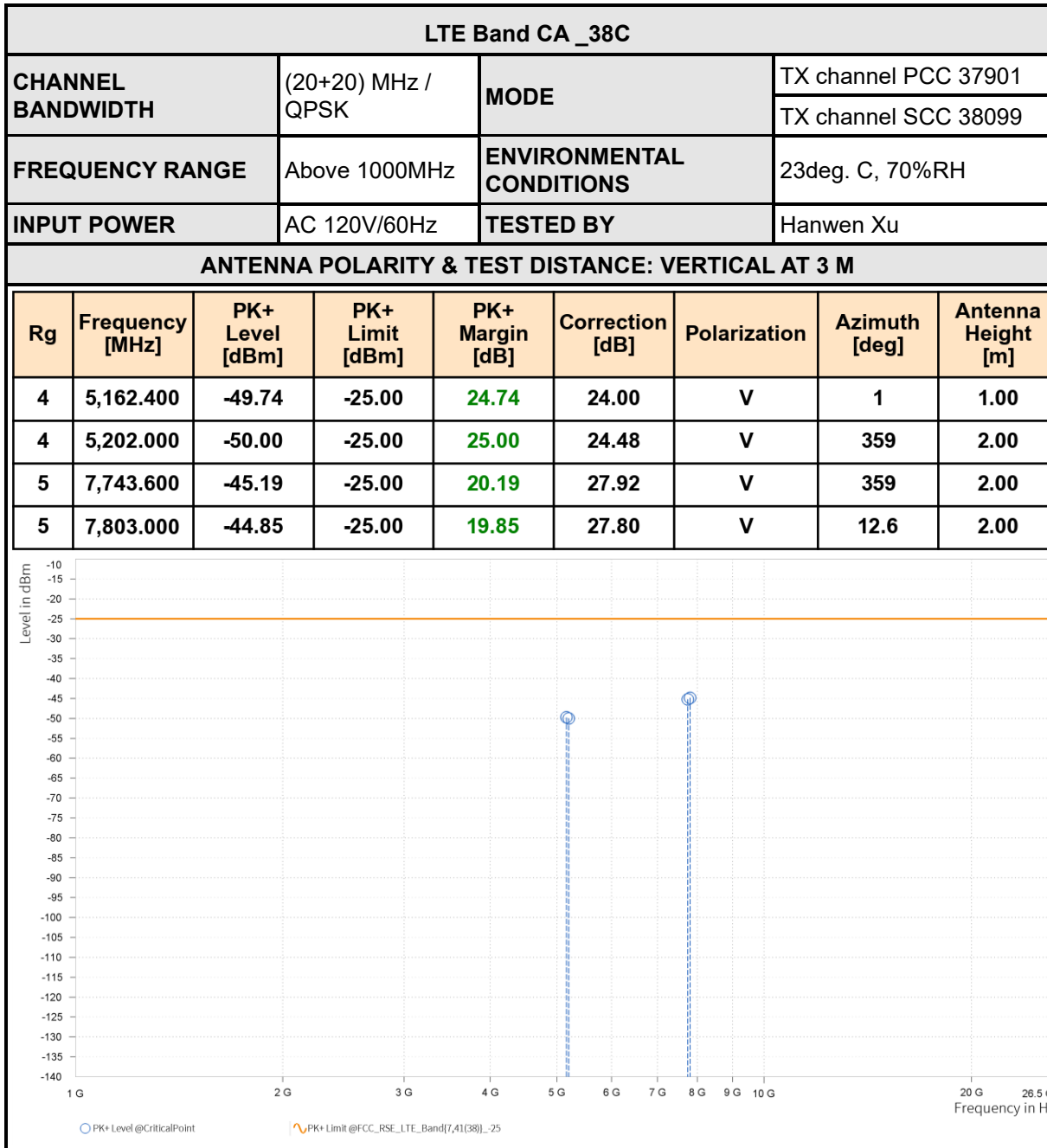


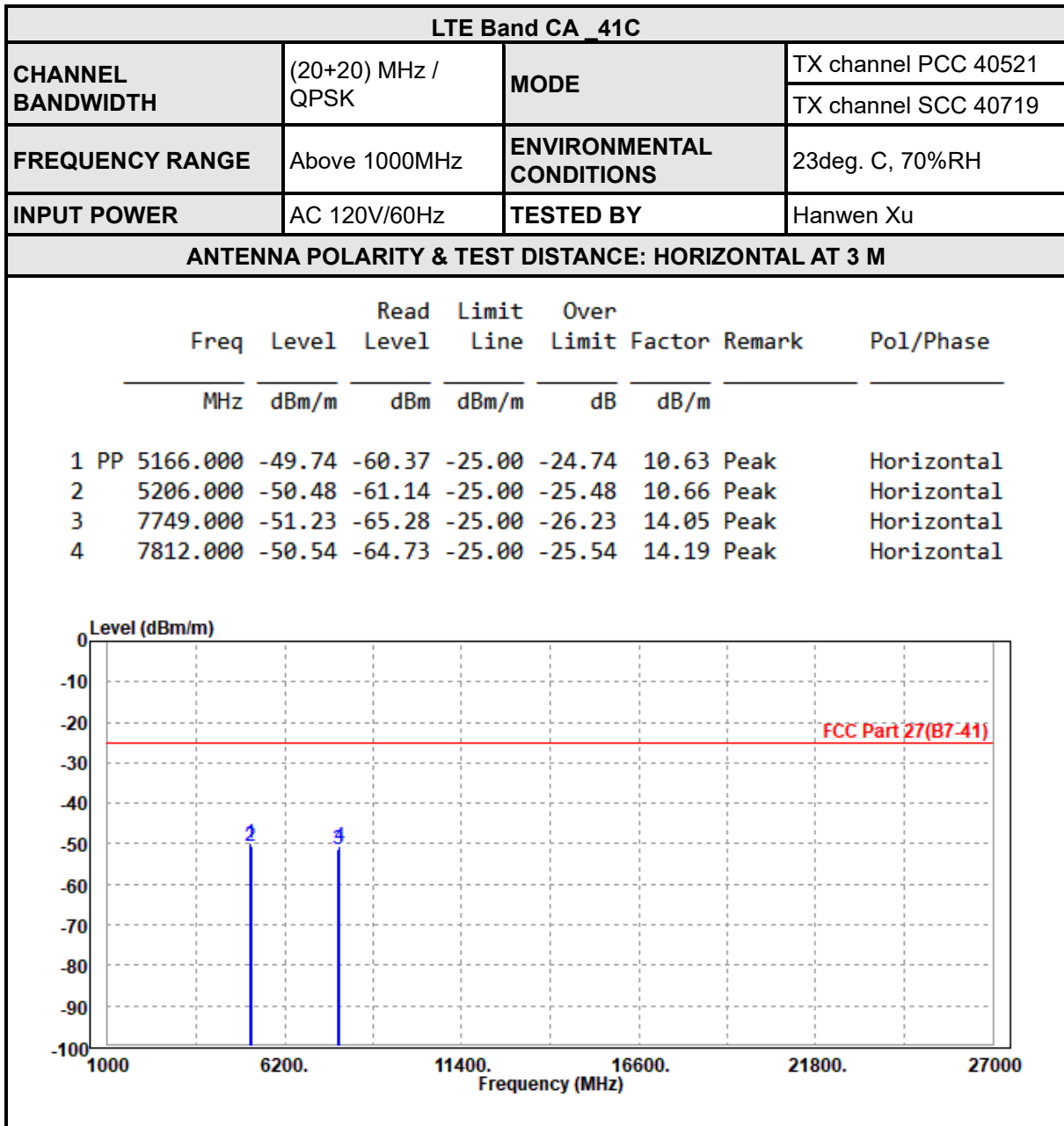












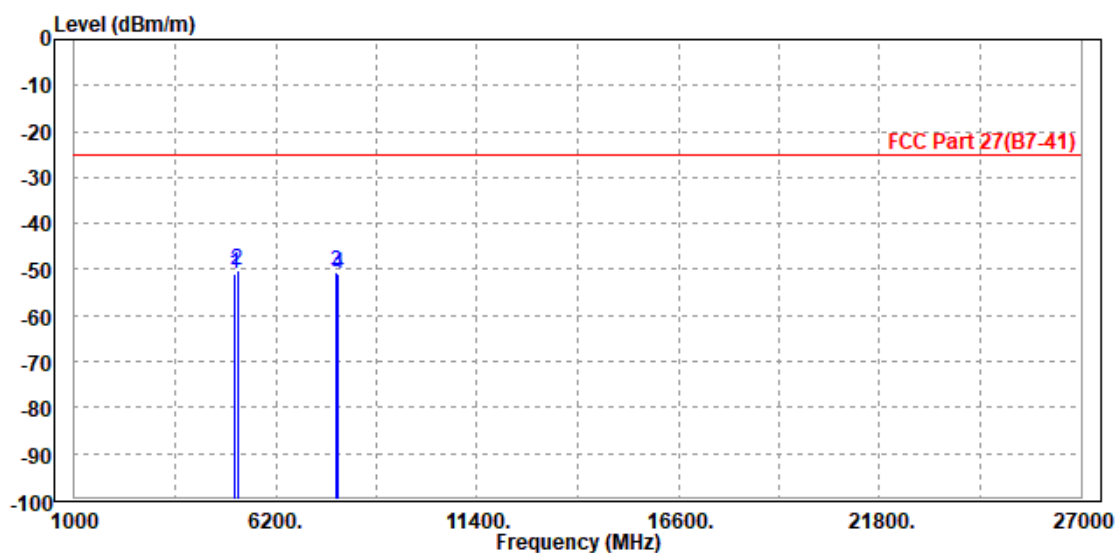


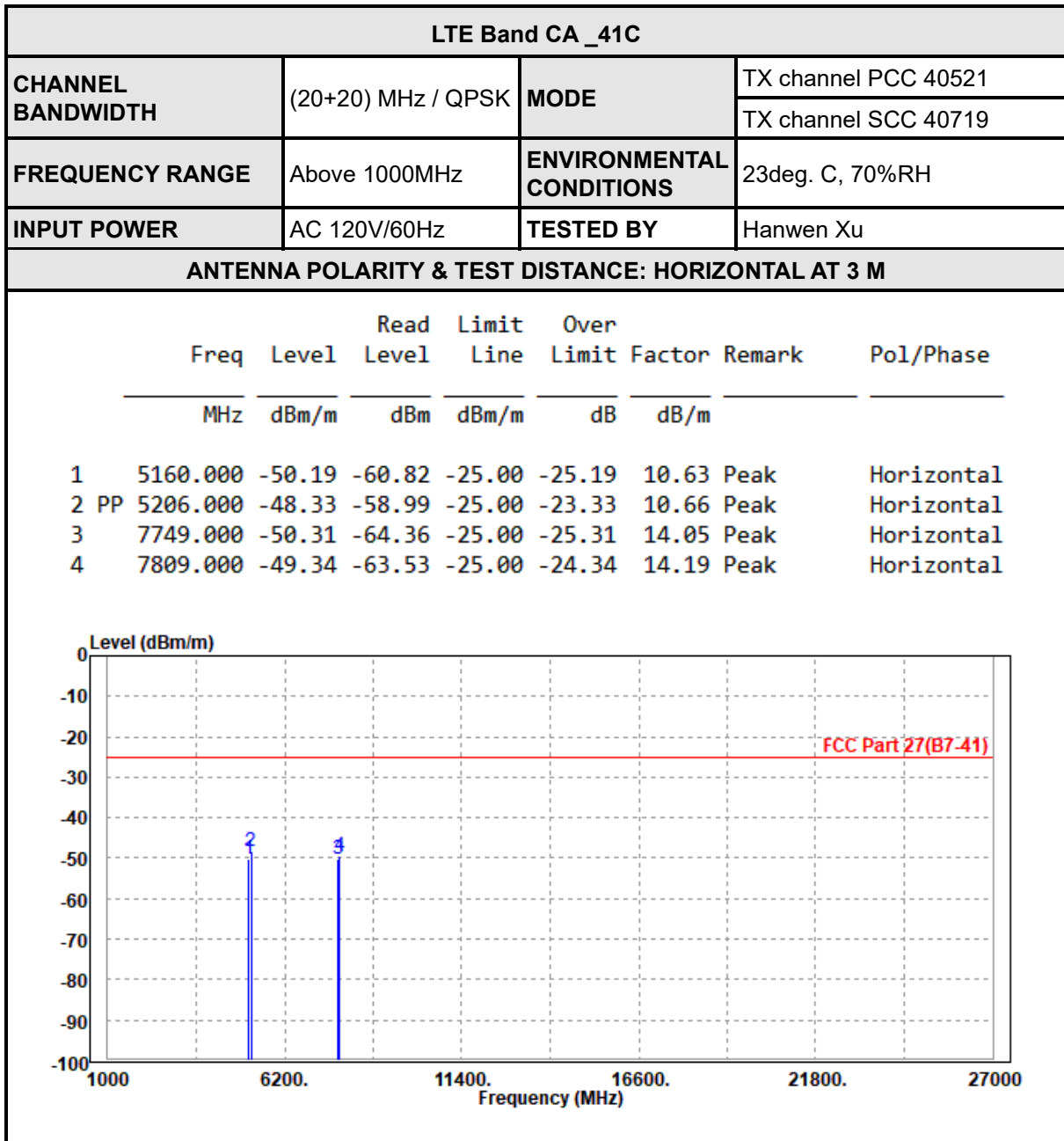
Test Report No.: PSU-QSU2411180418RF06

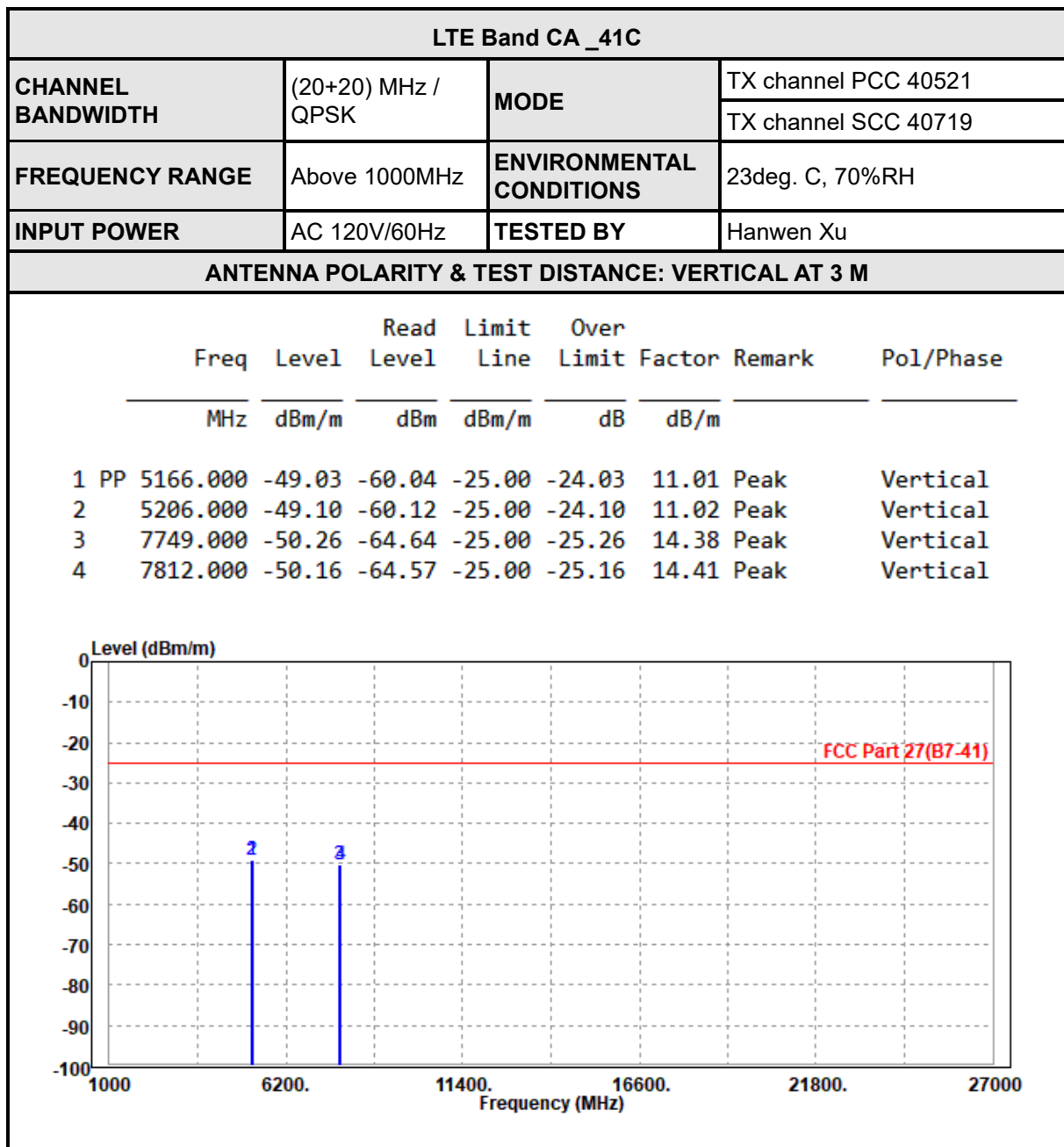
LTE Band CA_41C			
CHANNEL BANDWIDTH	(20+20) MHz / QPSK	MODE	TX channel PCC 40521
			TX channel SCC 40719
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60Hz	TESTED BY	Hanwen Xu

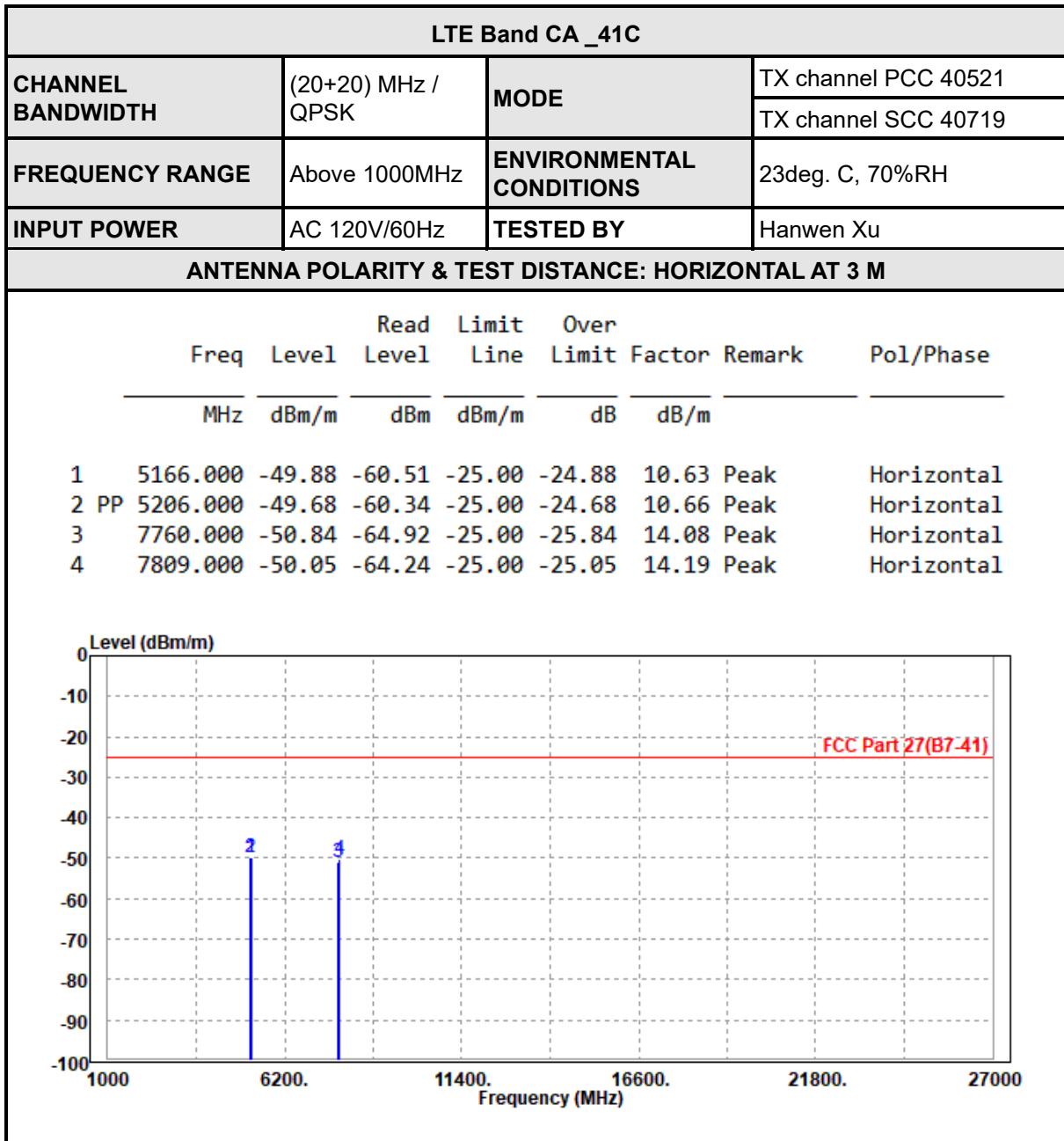
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

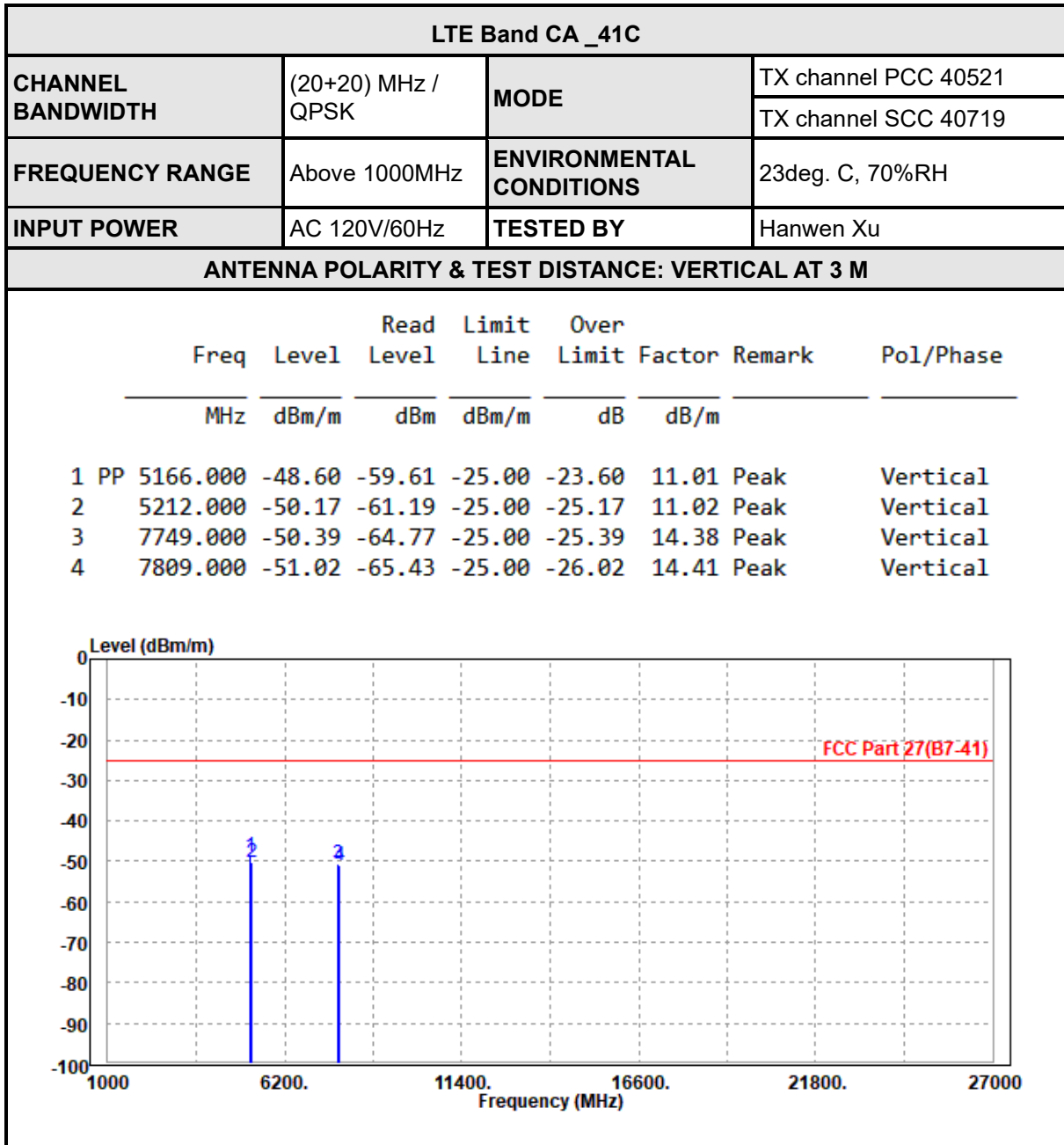
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5160.000	-50.98	-61.99	-25.00	-25.98	11.01	Peak	Vertical
2 PP	5206.000	-50.14	-61.16	-25.00	-25.14	11.02	Peak	Vertical
3	7749.000	-50.64	-65.02	-25.00	-25.64	14.38	Peak	Vertical
4	7809.000	-51.13	-65.54	-25.00	-26.13	14.41	Peak	Vertical

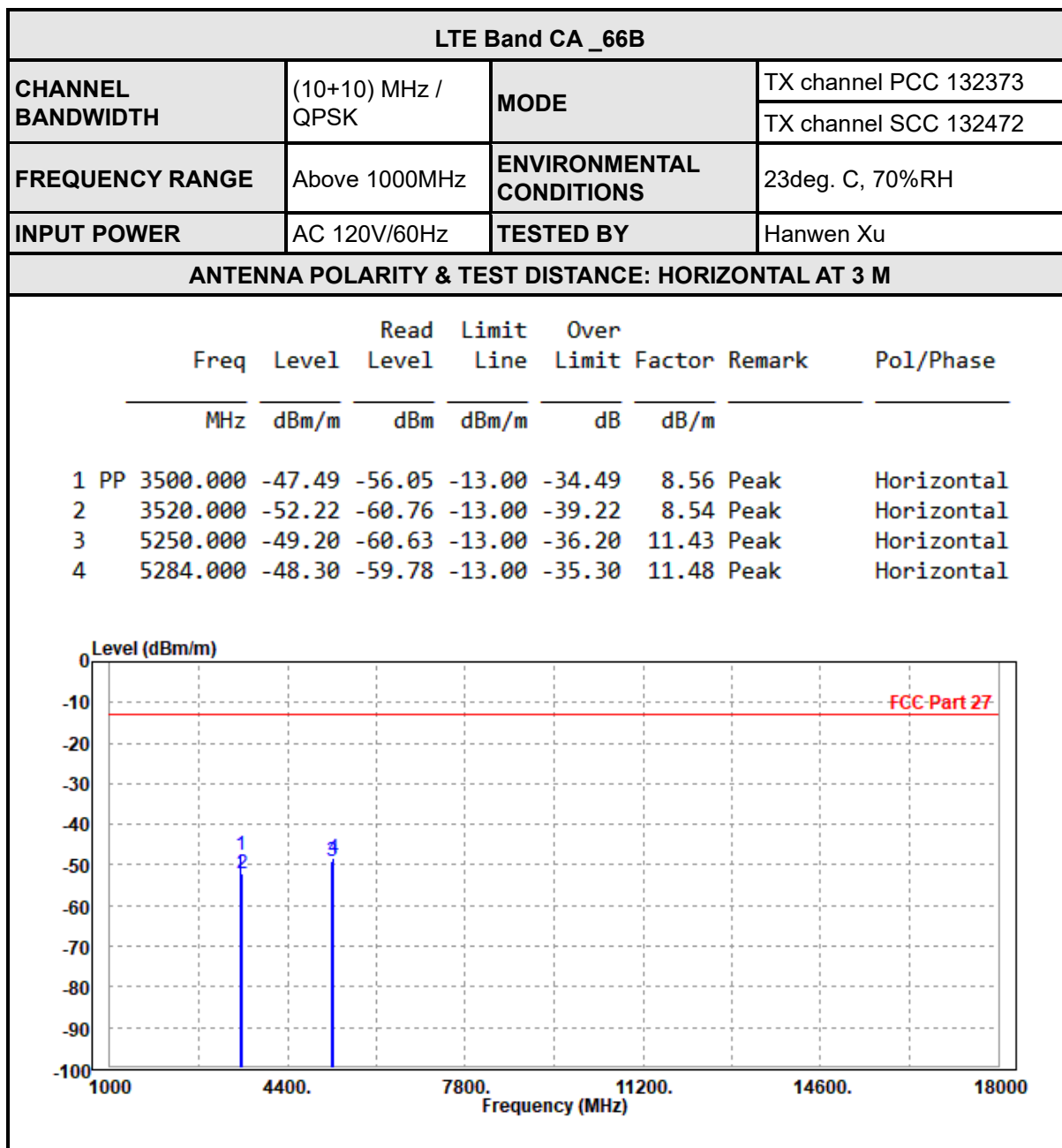


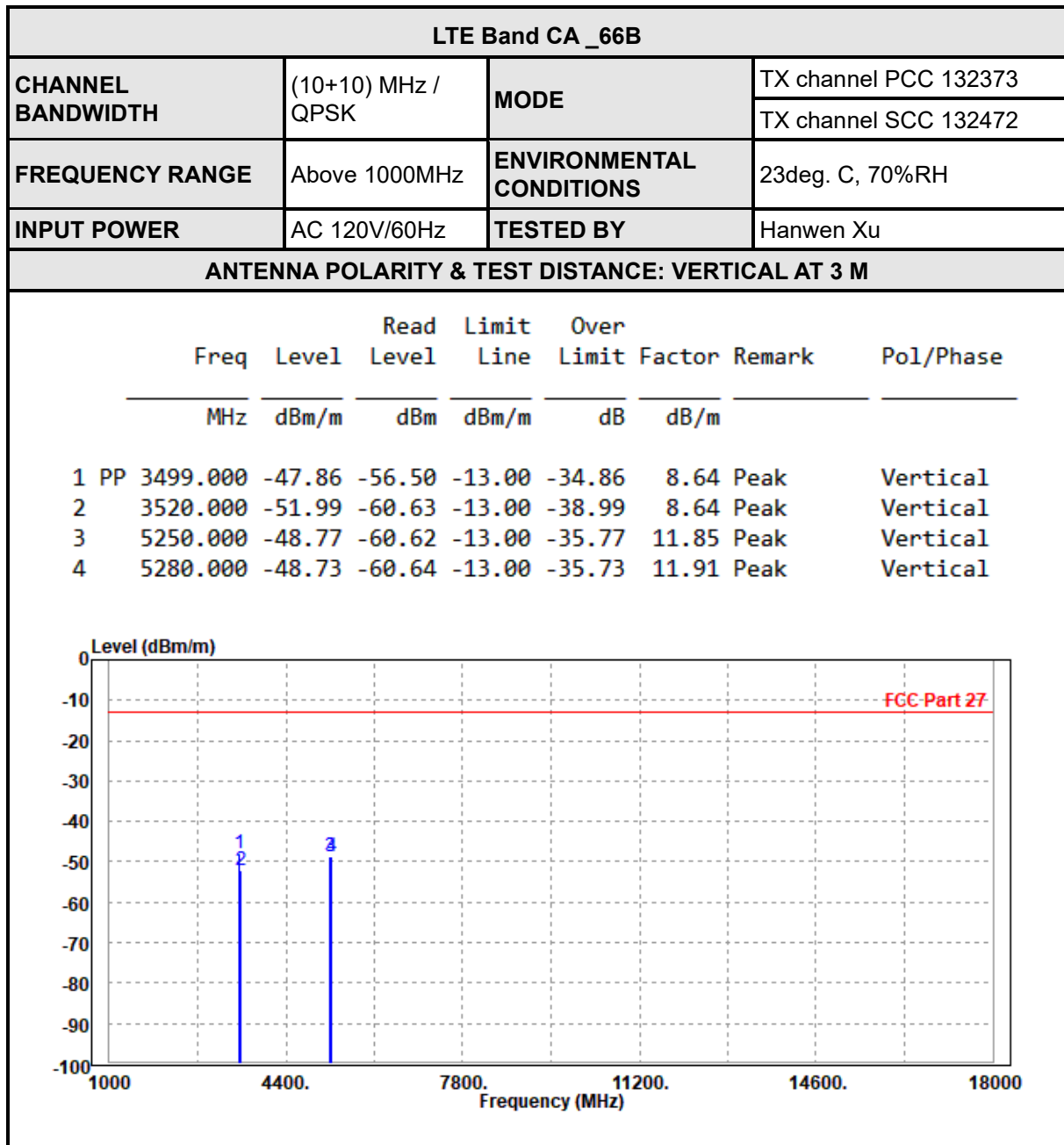










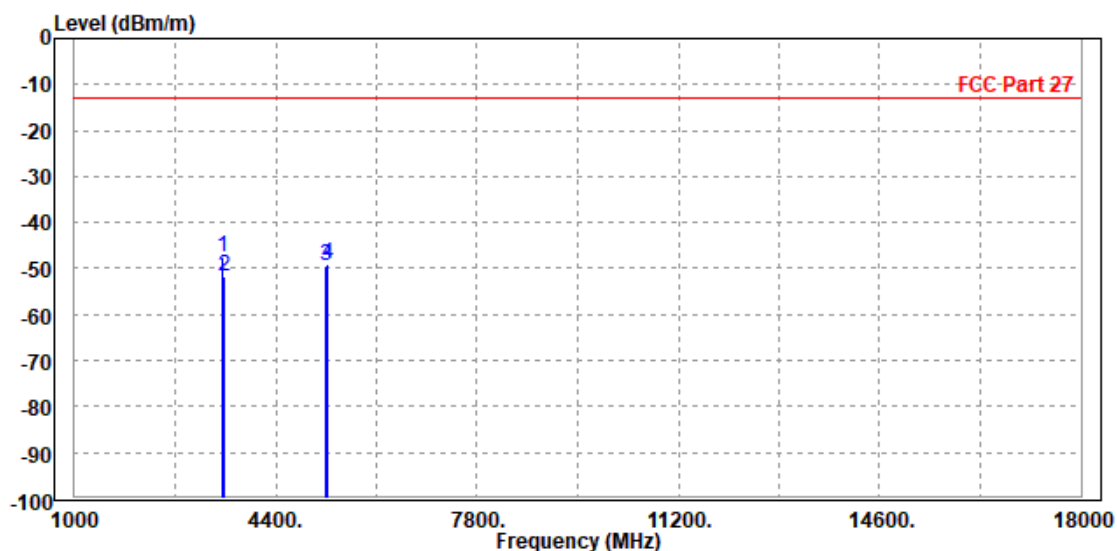




LTE Band CA_66B			
CHANNEL BANDWIDTH	(10+10) MHz / QPSK	MODE	TX channel PCC 132373
			TX channel SCC 132472
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60Hz	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3500.000	-47.65	-56.21	-13.00	-34.65	8.56	Peak	Horizontal
2		3516.000	-51.68	-60.23	-13.00	-38.68	8.55	Peak	Horizontal
3		5250.000	-49.58	-61.01	-13.00	-36.58	11.43	Peak	Horizontal
4		5280.000	-48.90	-60.37	-13.00	-35.90	11.47	Peak	Horizontal



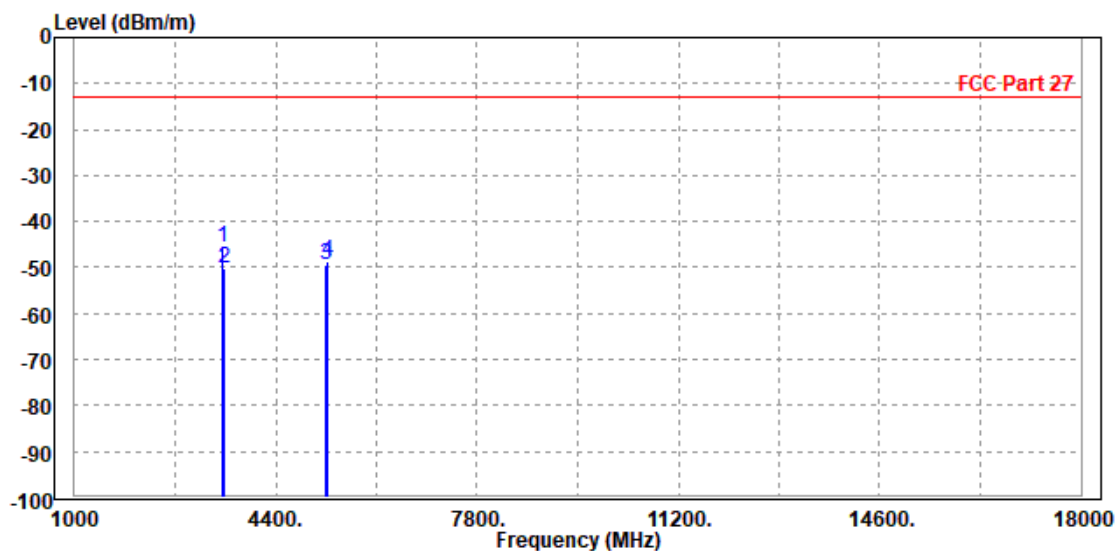


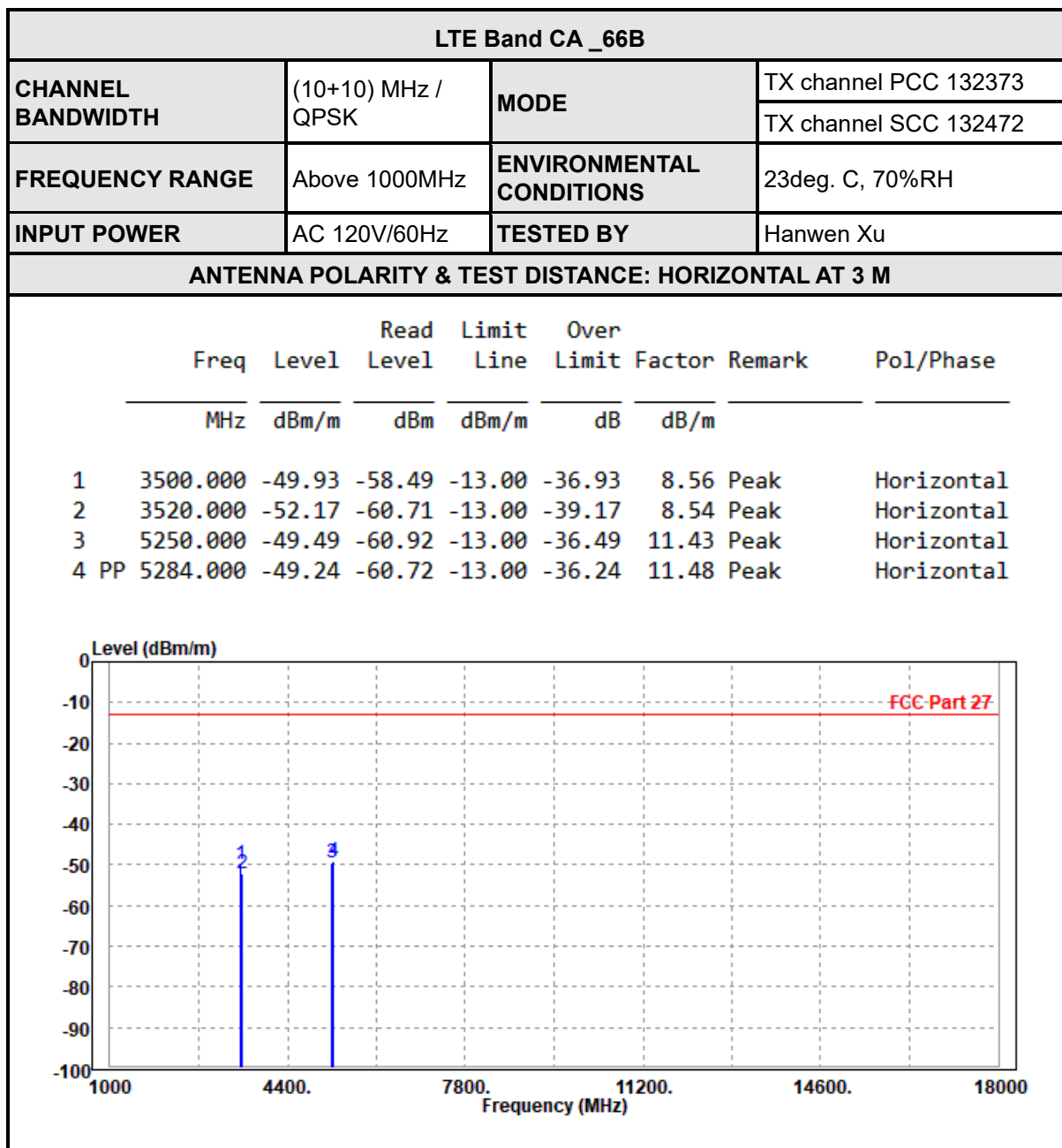
Test Report No.: PSU-QSU2411180418RF06

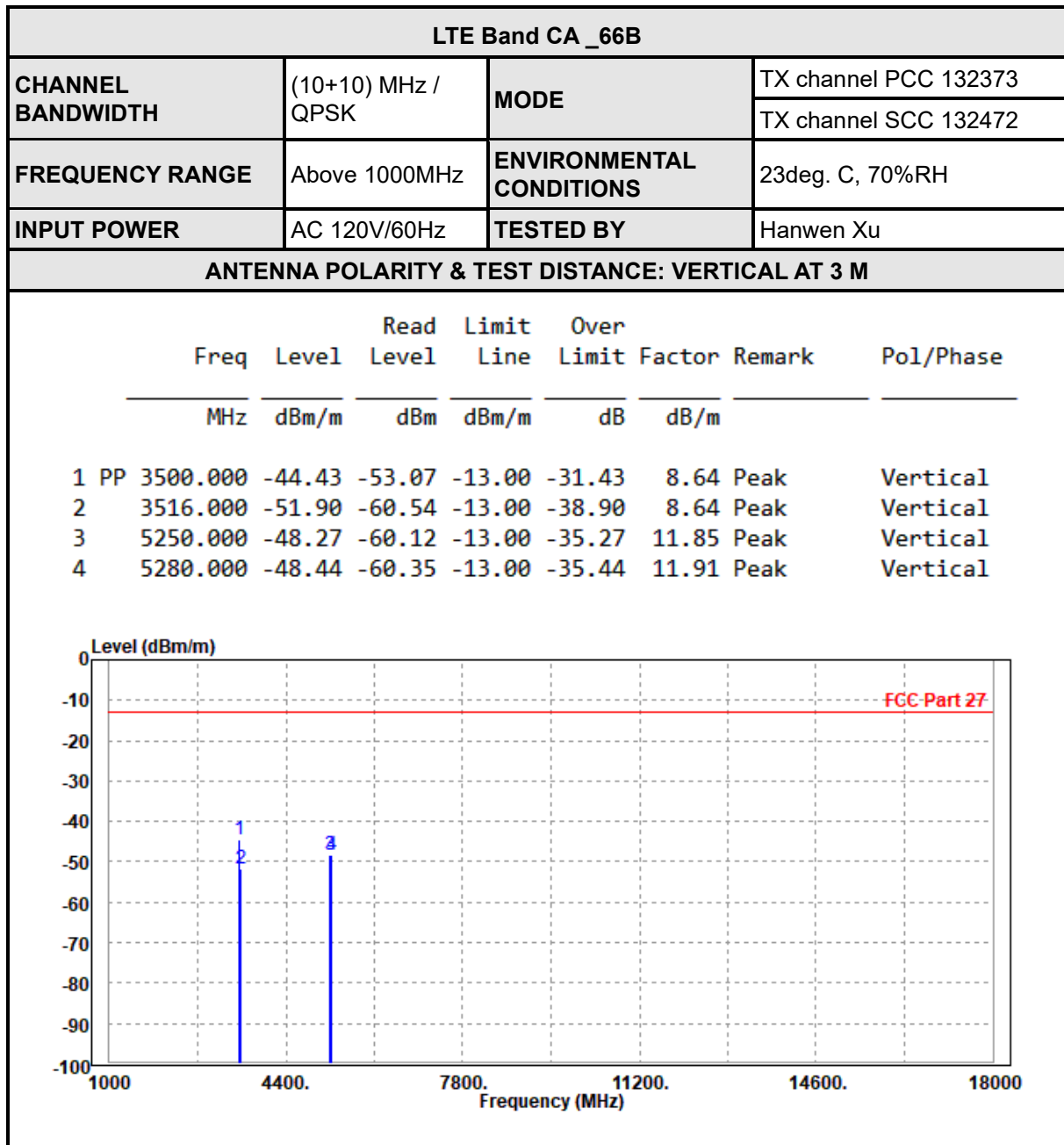
LTE Band CA_66B			
CHANNEL BANDWIDTH	(10+10) MHz / QPSK	MODE	TX channel PCC 132373
			TX channel SCC 132472
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60Hz	TESTED BY	Hanwen Xu

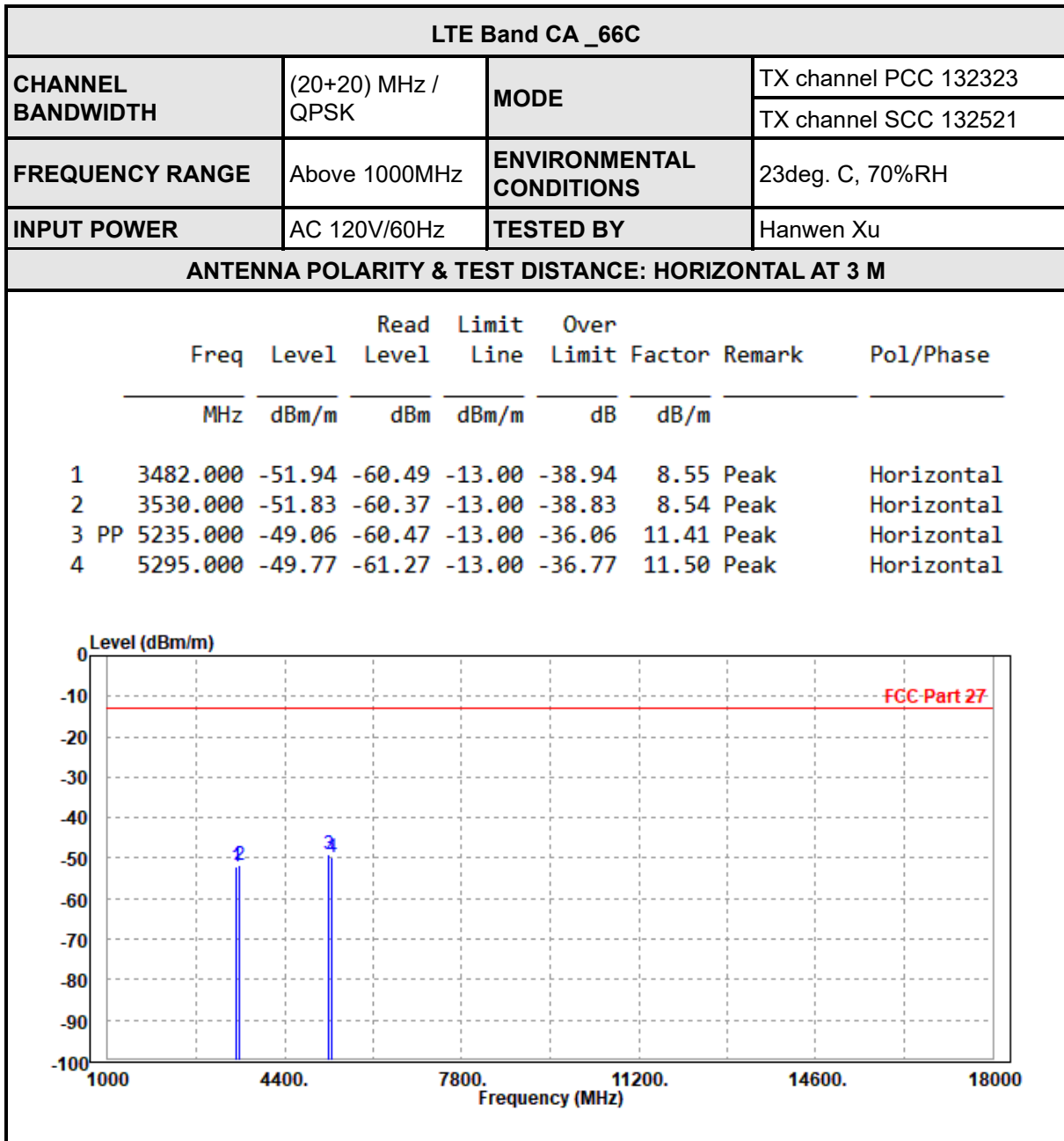
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

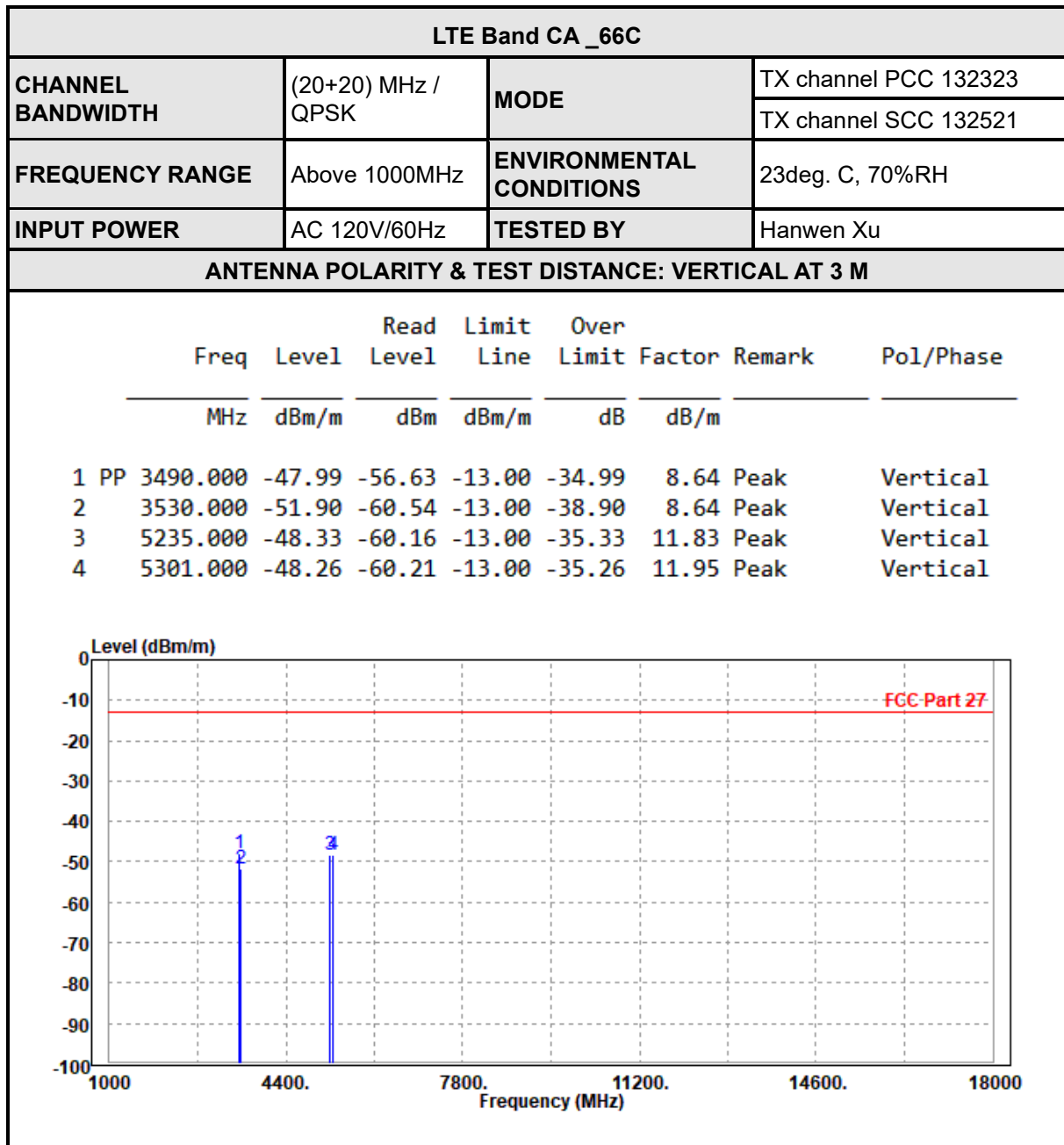
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3500.000	-45.78	-54.42	-13.00	-32.78	8.64	Peak	Vertical
2		3520.000	-50.38	-59.02	-13.00	-37.38	8.64	Peak	Vertical
3		5250.000	-49.58	-61.43	-13.00	-36.58	11.85	Peak	Vertical
4		5284.000	-48.79	-60.71	-13.00	-35.79	11.92	Peak	Vertical









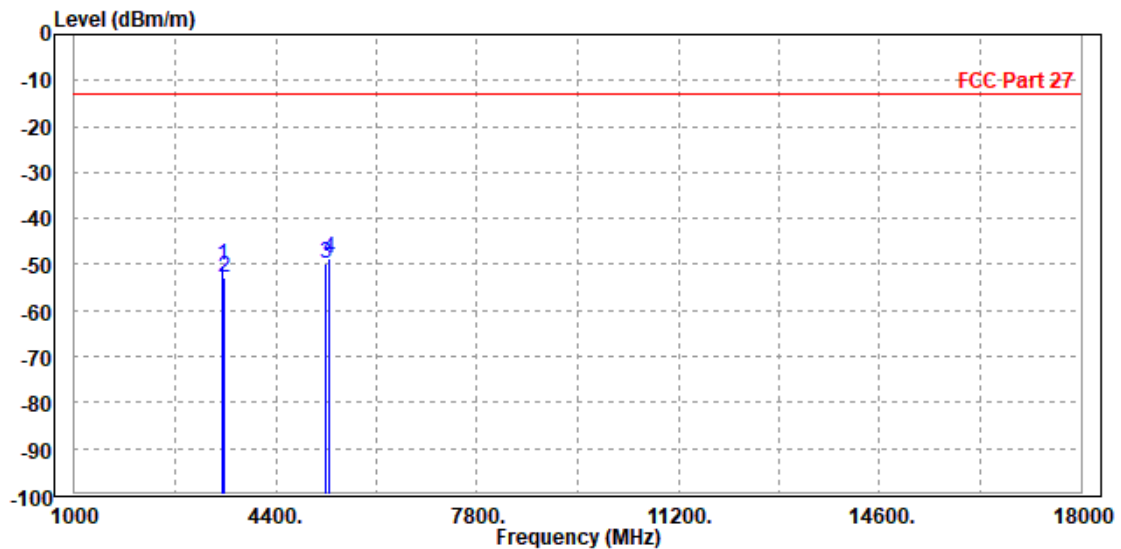


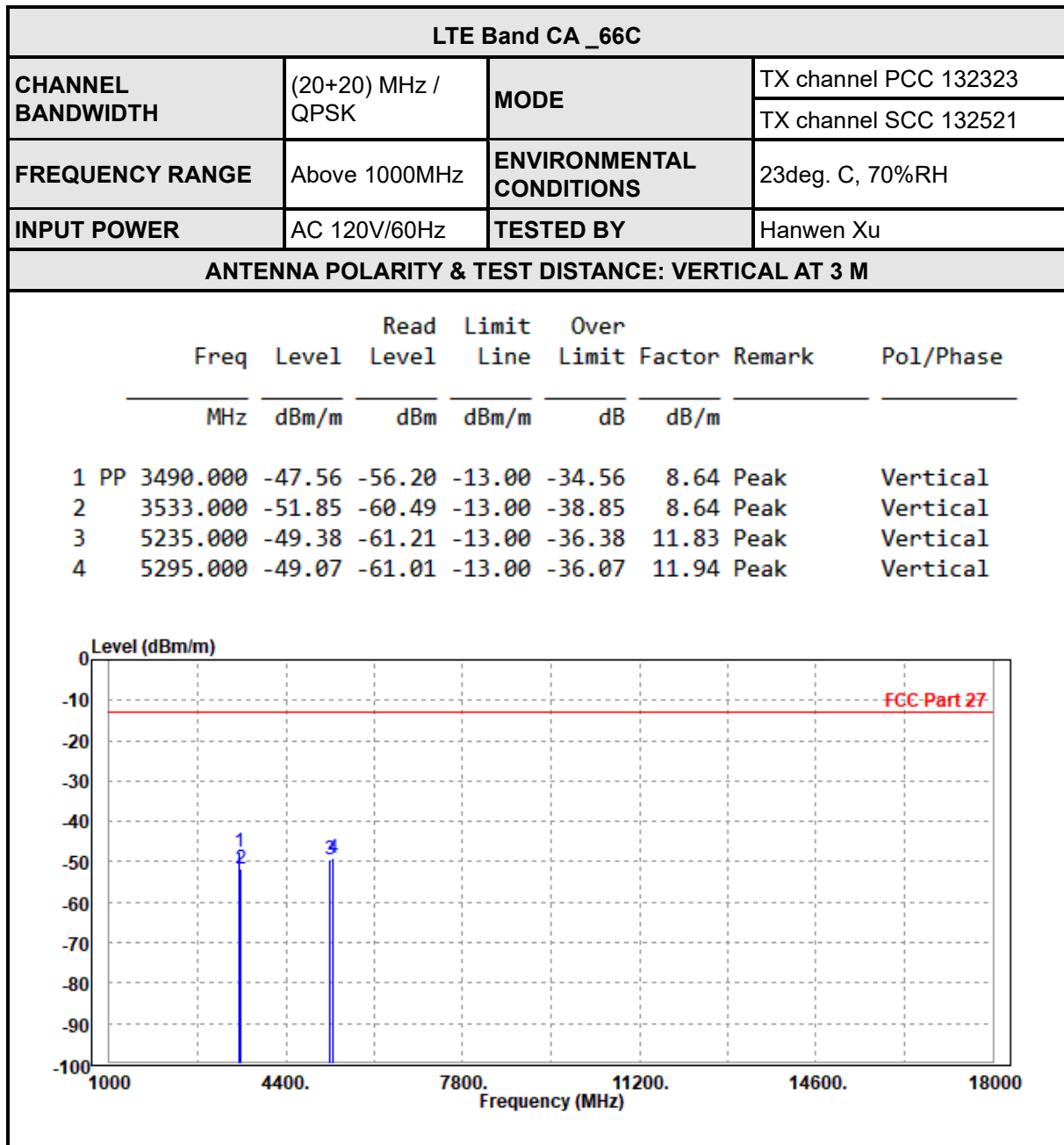


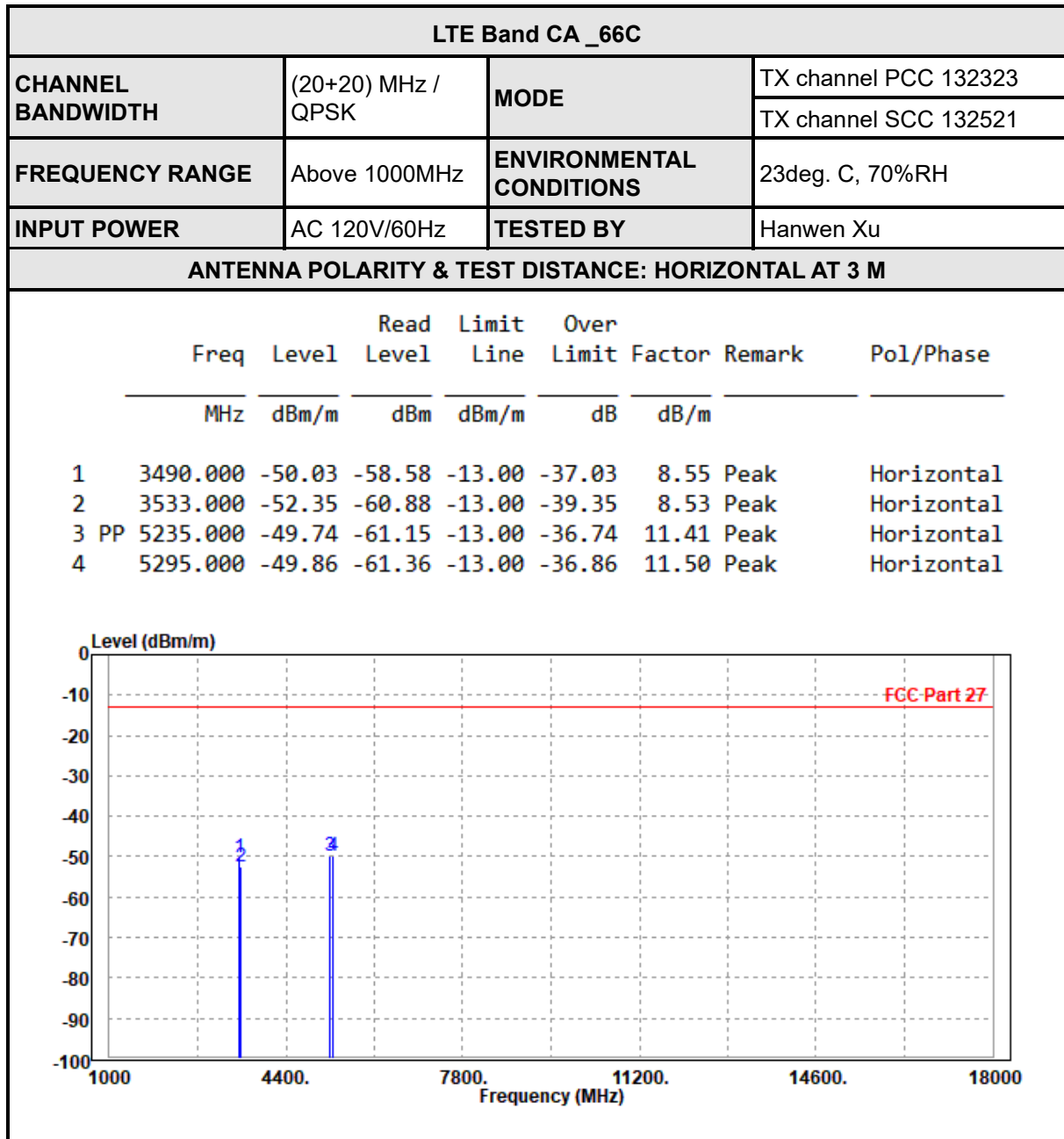
LTE Band CA_66C			
CHANNEL BANDWIDTH	(20+20) MHz / QPSK	MODE	TX channel PCC 132323
			TX channel SCC 132521
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V/60Hz	TESTED BY	Hanwen Xu

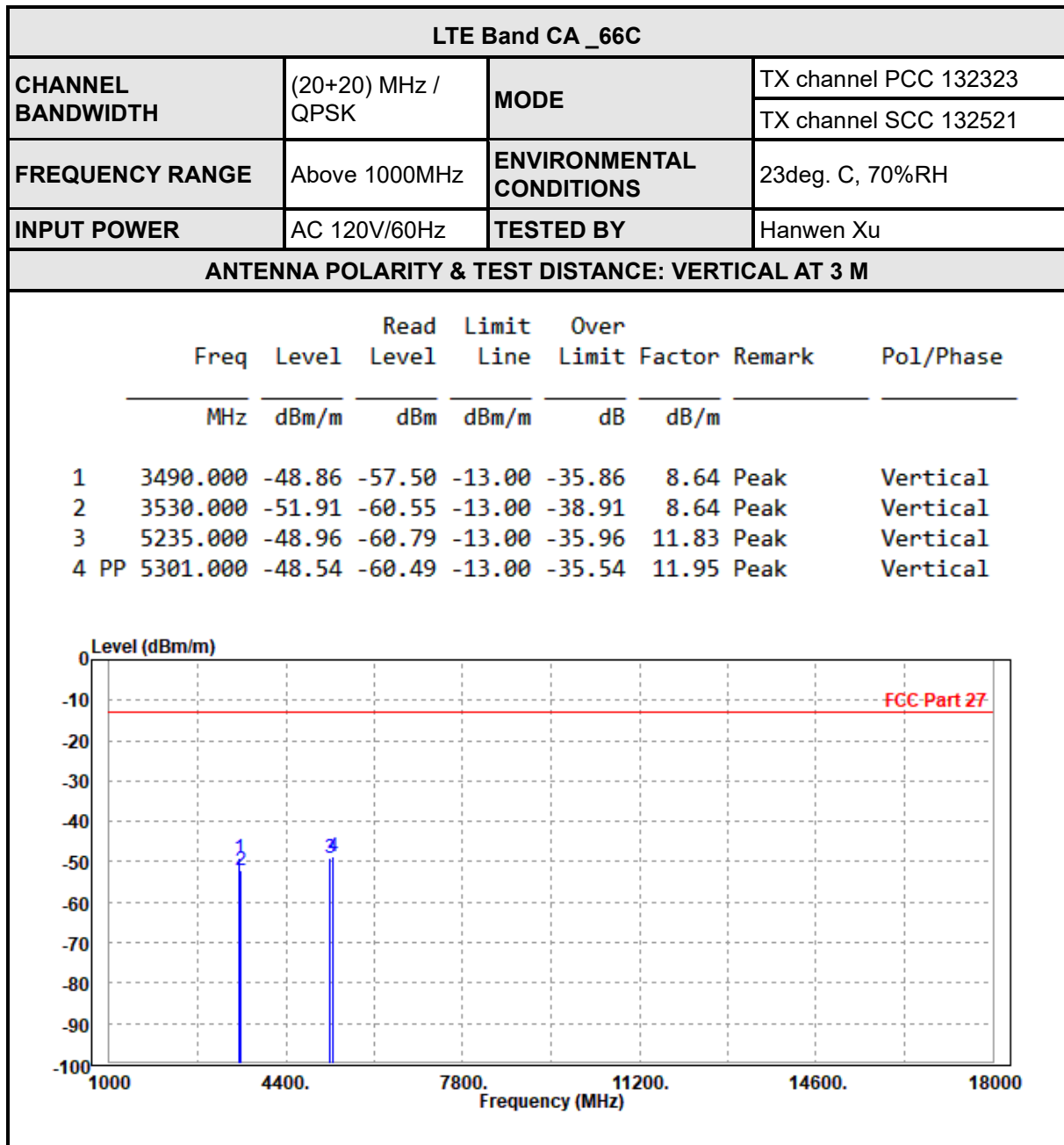
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3490.000	-50.11	-58.66	-13.00	-37.11	8.55	Peak	Horizontal
2	3530.000	-52.94	-61.48	-13.00	-39.94	8.54	Peak	Horizontal
3	5235.000	-49.82	-61.23	-13.00	-36.82	11.41	Peak	Horizontal
4 PP	5301.000	-48.63	-60.14	-13.00	-35.63	11.51	Peak	Horizontal









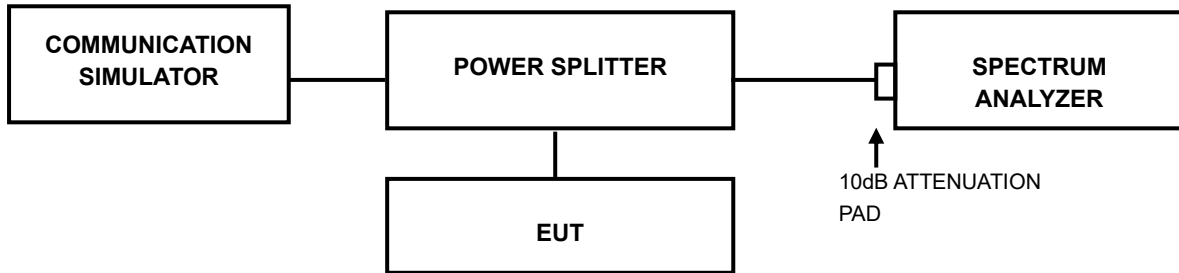


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to single band Appendix.



4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

Lab Address:

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

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



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

No any modifications are made to the EUT by the lab during the test.



6 APPENDIX

Please refer to Appendix D report.

--END--