

FCC TEST REPORT

(PART 22)

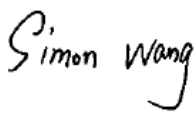
Applicant:	Thundercomm Technology Co., Ltd.
Address:	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

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

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

- ☒ **FCC PART 22, Subpart H** ☒ **FCC Part 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI C63.26-2015**
☒ **ANSI/TIA/EIA-603-E**

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

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

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Test Report No.: W7L-P23070010RF01

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23070010RF01	Original release	Oct. 31, 2023

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	See Note1
§22.913 (a)(5)	Effective Radiated Power	Compliance
§2.1055 §22.355	Frequency Stability	See Note1
§2.1049	Occupied Bandwidth	See Note1
§22.913 (d)	Peak to average ratio*	See Note1
§22.917(a)	Band Edge Measurements	See Note1
§2.1051 §22.917(a)	Conducted Spurious Emissions	See Note1
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance See Note2

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

Note:

1. Please refer to the module report SEWA2204000008RG01(FCC ID: XMR2022RM520NGL)
2. For Inter-CA band, the EUT had been tested with all combinations, the report only shows the worst case RSE mode data.

1.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	$\pm 2.06\text{dB}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.27,23	Apr.26,24



BUREAU
VERITAS

Test Report No.: W7L-P23070010RF01

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

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

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Edge AI Station	
BRAND NAME	Thundercomm	
MODEL NAME	EB5S	
NOMINAL VOLTAGE	19Vdc(adapter)	
MODULATION TYPE	WCDMA	BPSK, QPSK
	LTE	QPSK, 16QAM, 64QAM, 256QAM
FREQUENCY RANGE	WCDMA	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 26 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 26 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 26 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 15MHz)	831.5MHz ~ 841.5MHz
	LTE Band CA 5B (Channel Bandwidth: 3+5MHz)	825.6 MHz ~846.5MHz
	LTE Band CA 5B (Channel Bandwidth: 5+10MHz)	826.8 MHz ~ 844MHz
	LTE Band CA 5B (Channel Bandwidth: 10+5MHz)	829 MHz ~ 846.2MHz
	LTE Band CA 5B (Channel Bandwidth: 10+10MHz)	829 MHz ~ 844MHz
	LTE Band CA 5B (Channel Bandwidth: 5+3MHz)	826.5 MHz ~ 847.4MHz
MAX. ERP POWER	WCDMA	140.93mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	129.72mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	128.23mW



	LTE Band 5 (Channel Bandwidth: 5MHz)	130.02mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	128.53mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	136.46mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	137.09mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	140.93mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	135.83mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	137.4mW
	LTE Band CA 5B (Channel Bandwidth: 3+5MHz)	228.56mW
	LTE Band CA 5B (Channel Bandwidth: 5+10MHz)	227.51mW
	LTE Band CA 5B (Channel Bandwidth: 10+5MHz)	222.84mW
	LTE Band CA 5B (Channel Bandwidth: 10+10MHz)	220.80mW
	LTE Band CA 5B (Channel Bandwidth: 5+3MHz)	228.03mW
EMISSION DESIGNATOR GOGN	WCDMA	4M15F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M11G7D
		16QAM: 1M11W7D
		64QAM: 1M11W7D
		256QAM: 1M11W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M70G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
		256QAM: 2M70W7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M48G7D
		16QAM: 4M48W7D
		64QAM: 4M48W7D
		256QAM: 4M48W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 8M94G7D
		16QAM: 8M94W7D
		64QAM: 8M94W7D
		256QAM: 8M94W7D
	LTE Band 26	QPSK: 1M11G7D



	(Channel Bandwidth: 1.4MHz)	16QAM: 1M11W7D
		64QAM: 1M10W7D
		256QAM: 1M11W7D
	LTE Band 26 (Channel Bandwidth: 3MHz)	QPSK: 2M71G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
		256QAM: 2M71W7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	QPSK: 4M48G7D
		16QAM: 4M48W7D
		64QAM: 4M49W7D
		256QAM: 4M49W7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	QPSK: 8M97G7D
		16QAM: 8M95W7D
		64QAM: 8M95W7D
		256QAM: 8M95W7D
	LTE Band 26 (Channel Bandwidth: 15MHz)	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	LTE Band CA 5B (Channel Bandwidth: 3+5MHz)	QPSK: 7M52G7D
		16QAM: 7M49W7D
		64QAM: 7M49W7D
		256QAM: 7M49W7D
	LTE Band CA 5B (Channel Bandwidth: 5+10MHz)	QPSK: 13M9G7D
		16QAM: 13M9W7D
		64QAM: 13M9W7D
		256QAM: 13M9W7D
	LTE Band CA 5B (Channel Bandwidth: 10+5MHz)	QPSK: 13M9G7D
		16QAM: 13M9W7D
		64QAM: 13M9W7D
		256QAM: 13M9W7D
	LTE Band CA 5B (Channel Bandwidth: 10+10MHz)	QPSK: 18M8G7D
		16QAM: 18M8W7D
		64QAM: 18M8W7D
		256QAM: 18M8W7D



	LTE Band CA 5B (Channel Bandwidth: 5+3MHz)	QPSK: 7M52G7D
		16QAM: 7M51W7D
		64QAM: 7M52W7D
		256QAM: 7M49W7D
ANTENNA TYPE	Fixed External Antenna with -1.35dBi gain for WCDMA V/LTE B5/LTE B26/ LTE CA 5B	
HW VERSION	Turbox EB5S-IO-BOARD V03	
SW VERSION	R.5S.LA.2.20231030	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-20-60 °C	
EXTREME VOLTAGE	12V - 24V	

NOTE:

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

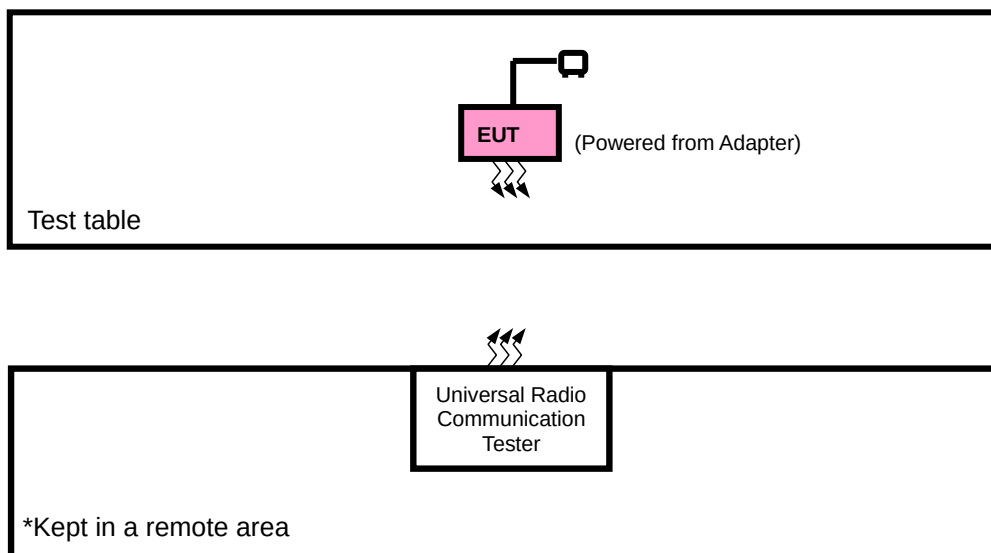
MODULATION MODE	TX FUNCTION
WCDMA	1TX/1RX
LTE	1TX/1RX

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

4 List of Accessory:

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

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION



2.3 DESCRIPTION OF SUPPORT UNITS

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

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

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

2.4 TEST ITEM AND TEST CONFIGURATION

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with WCDMA or LTE link

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset

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

2. LTE Band 5 are covered by LTE Band 26, Because it is a subset of LTE Band 26 with the same output power and supported bandwidths, So the test data please refer to LTE Band 26

LTE BAND CA 5B MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode(PCC)	mode(SCC)
A	ERP	20416/20455 to 20586/20625	20416/20455, 20501/20540, 20586/20625	3+5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 14 RB Offset	1 RB / 0 RB Offset
		20428/20500 to 20528/20600	20428/20500, 20478/20550, 20528/20600	5+10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 24 RB Offset	1 RB / 0 RB Offset
		20450/20522 to 20550/20622	20450/20522, 20500/20572, 20550/20622	10+5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 49 RB Offset	1 RB / 0 RB Offset
		20450/20549 to 20501/20600	20450/20549, 20476/20575, 20501/20600	10+10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 49 RB Offset	1 RB / 0 RB Offset
		20425/20464 to 20595/20634	20425/20464, 20510/20549, 20595/20634	5+3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 24 RB Offset	1 RB / 0 RB Offset
A	RADIATED EMISSION	20450/20549 to 20501/20600	20450/20549, 20476/20575, 20501/20600	10+10MHz	QPSK	1 RB / 49 RB Offset	1 RB / 0 RB Offset

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

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	26797 to 27033	26915	1.4MHz	QPSK	1 RB / 0 RB Offset
		26805 to 27025	26915	3MHz	QPSK	1 RB / 0 RB Offset
		26815 to 27015	26915	5MHz	QPSK	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB / 0 RB Offset
		26865 to 26965	26915	15MHz	QPSK	1 RB / 0 RB 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	23deg. C, 70%RH	DC 19V By Adapter	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	DC19V By Adapter	Jace Hu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

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

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

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

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

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

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

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

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA 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

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

ERP POWER (dBm)

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	24.36	-1.35	20.86	121.9	7
4182	836.4	24.6	-1.35	21.1	128.82	7
4233	846.6	24.99	-1.35	21.49	140.93	7

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

LTE BAND 5

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	24.54	-1.35	21.04	127.06	7
20525	836.5	24.52	-1.35	21.02	126.47	7
20643	848.3	24.63	-1.35	21.13	129.72	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.95	-1.35	20.45	110.92	7
20525	836.5	23.93	-1.35	20.43	110.41	7
20643	848.3	24.02	-1.35	20.52	112.72	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.09	-1.35	19.59	90.99	7
20525	836.5	22.94	-1.35	19.44	87.9	7
20643	848.3	22.96	-1.35	19.46	88.31	7

CHANNEL BANDWIDTH: 1.4MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	20.03	-1.35	16.53	44.98	7
20525	836.5	19.92	-1.35	16.42	43.85	7
20643	848.3	19.9	-1.35	16.4	43.65	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	24.58	-1.35	21.08	128.23	7
20525	836.5	24.45	-1.35	20.95	124.45	7
20635	847.5	24.52	-1.35	21.02	126.47	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.97	-1.35	20.47	111.43	7
20525	836.5	24.05	-1.35	20.55	113.5	7
20635	847.5	24.05	-1.35	20.55	113.5	7

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.01	-1.35	19.51	89.33	7
20525	836.5	23.09	-1.35	19.59	90.99	7
20635	847.5	23.1	-1.35	19.6	91.2	7

CHANNEL BANDWIDTH: 3MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	19.91	-1.35	16.41	43.75	7
20525	836.5	19.98	-1.35	16.48	44.46	7
20635	847.5	19.99	-1.35	16.49	44.57	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	24.64	-1.35	21.14	130.02	7
20525	836.5	24.36	-1.35	20.86	121.9	7
20625	846.5	24.52	-1.35	21.02	126.47	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.97	-1.35	20.47	111.43	7
20525	836.5	24.03	-1.35	20.53	112.98	7
20625	846.5	24.12	-1.35	20.62	115.35	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.09	-1.35	19.59	90.99	7
20525	836.5	23.01	-1.35	19.51	89.33	7
20625	846.5	23	-1.35	19.5	89.13	7

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	20.07	-1.35	16.57	45.39	7
20525	836.5	19.97	-1.35	16.47	44.36	7
20625	846.5	19.95	-1.35	16.45	44.16	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	24.59	-1.35	21.09	128.53	7
20525	836.5	24.41	-1.35	20.91	123.31	7
20600	844.0	24.49	-1.35	20.99	125.6	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	24	-1.35	20.5	112.2	7
20525	836.5	23.99	-1.35	20.49	111.94	7
20600	844.0	24.02	-1.35	20.52	112.72	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	23.13	-1.35	19.63	91.83	7
20525	836.5	23.06	-1.35	19.56	90.36	7
20600	844.0	23.28	-1.35	19.78	95.06	7

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	19.95	-1.35	16.45	44.16	7
20525	836.5	20.08	-1.35	16.58	45.5	7
20600	844.0	20.03	-1.35	16.53	44.98	7

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

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CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	24.77	-1.35	21.27	133.97	7
26915	836.5	24.82	-1.35	21.32	135.52	7
27033	848.3	24.85	-1.35	21.35	136.46	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	23.99	-1.35	20.49	111.94	7
26915	836.5	23.96	-1.35	20.46	111.17	7
27033	848.3	23.95	-1.35	20.45	110.92	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	23.06	-1.35	19.56	90.36	7
26915	836.5	23.02	-1.35	19.52	89.54	7
27033	848.3	23.07	-1.35	19.57	90.57	7

CHANNEL BANDWIDTH: 1.4MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	19.99	-1.35	16.49	44.57	7
26915	836.5	19.98	-1.35	16.48	44.46	7
27033	848.3	19.87	-1.35	16.37	43.35	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	24.87	-1.35	21.37	137.09	7
26915	836.5	24.86	-1.35	21.36	136.77	7
27025	847.5	24.84	-1.35	21.34	136.14	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	23.86	-1.35	20.36	108.64	7
26915	836.5	24.1	-1.35	20.6	114.82	7
27025	847.5	23.99	-1.35	20.49	111.94	7

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	23.07	-1.35	19.57	90.57	7
26915	836.5	23.02	-1.35	19.52	89.54	7
27025	847.5	23.04	-1.35	19.54	89.95	7

CHANNEL BANDWIDTH: 3MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	19.92	-1.35	16.42	43.85	7
26915	836.5	20.01	-1.35	16.51	44.77	7
27025	847.5	20	-1.35	16.5	44.67	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	24.73	-1.35	21.23	132.74	7
26915	836.5	24.99	-1.35	21.49	140.93	7
27015	846.5	24.79	-1.35	21.29	134.59	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	23.96	-1.35	20.46	111.17	7
26915	836.5	24.24	-1.35	20.74	118.58	7
27015	846.5	24.15	-1.35	20.65	116.14	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	23.13	-1.35	19.63	91.83	7
26915	836.5	23.07	-1.35	19.57	90.57	7
27015	846.5	23.13	-1.35	19.63	91.83	7

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	19.92	-1.35	16.42	43.85	7
26915	836.5	19.97	-1.35	16.47	44.36	7
27015	846.5	19.98	-1.35	16.48	44.46	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	24.78	-1.35	21.28	134.28	7
26915	836.5	24.83	-1.35	21.33	135.83	7
26990	844	24.83	-1.35	21.33	135.83	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	24.14	-1.35	20.64	115.88	7
26915	836.5	24.07	-1.35	20.57	114.02	7
26990	844	24	-1.35	20.5	112.2	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	23.1	-1.35	19.6	91.2	7
26915	836.5	23.03	-1.35	19.53	89.74	7
26990	844	23.16	-1.35	19.66	92.47	7

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	19.93	-1.35	16.43	43.95	7
26915	836.5	19.99	-1.35	16.49	44.57	7
26990	844	19.97	-1.35	16.47	44.36	7

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	24.88	-1.35	21.38	137.4	7
26915	836.5	24.61	-1.35	21.11	129.12	7
26965	841.5	24.64	-1.35	21.14	130.02	7

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	23.75	-1.35	20.25	105.93	7
26915	836.5	24.05	-1.35	20.55	113.5	7
26965	841.5	23.85	-1.35	20.35	108.39	7

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	23.29	-1.35	19.79	95.28	7
26915	836.5	22.85	-1.35	19.35	86.1	7
26965	841.5	22.96	-1.35	19.46	88.31	7

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	19.98	-1.35	16.48	44.46	7
26915	836.5	19.94	-1.35	16.44	44.06	7
26965	841.5	20.06	-1.35	16.56	45.29	7

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



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CHANNEL BANDWIDTH: 3MHz+5MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20416	825.6	20455	829.5	24.94	-1.35	23.59	228.56	7
20501	834.1	20540	838.0	24.87	-1.35	23.52	224.91	7
20586	842.6	20625	846.5	24.74	-1.35	23.39	218.27	7

CHANNEL BANDWIDTH: 3MHz+5MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20416	825.6	20455	829.5	24.44	-1.35	23.09	203.70	7
20501	834.1	20540	838.0	24.05	-1.35	22.70	186.21	7
20586	842.6	20625	846.5	24.05	-1.35	22.70	186.21	7

CHANNEL BANDWIDTH: 3MHz+5MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20416	825.6	20455	829.5	24.85	-1.35	23.50	223.87	7
20501	834.1	20540	838.0	24.59	-1.35	23.24	210.86	7
20586	842.6	20625	846.5	24.83	-1.35	23.48	222.84	7

CHANNEL BANDWIDTH: 3MHz+5MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20416	825.6	20455	829.5	22.59	-1.35	21.24	133.05	7
20501	834.1	20540	838.0	22.00	-1.35	20.65	116.14	7
20586	842.6	20625	846.5	22.04	-1.35	20.69	117.22	7

**CHANNEL BANDWIDTH: 5MHz+3MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	20464	830.4	24.93	-1.35	23.58	228.03	7
20510	834.1	20549	838.9	24.77	-1.35	23.42	219.79	7
20595	843.5	20634	847.4	24.76	-1.35	23.41	219.28	7

CHANNEL BANDWIDTH: 5MHz+3MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	20464	830.4	24.35	-1.35	23.00	199.53	7
20510	834.1	20549	838.9	23.95	-1.35	22.60	181.97	7
20595	843.5	20634	847.4	24.06	-1.35	22.71	186.64	7

CHANNEL BANDWIDTH: 5MHz+3MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	20464	830.4	24.78	-1.35	23.43	220.29	7
20510	834.1	20549	838.9	24.76	-1.35	23.41	219.28	7
20595	843.5	20634	847.4	24.78	-1.35	23.43	220.29	7

CHANNEL BANDWIDTH: 5MHz+3MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	20464	830.4	22.71	-1.35	21.36	136.77	7
20510	834.1	20549	838.9	21.95	-1.35	20.60	114.82	7
20595	843.5	20634	847.4	22.11	-1.35	20.76	119.12	7



CHANNEL BANDWIDTH: 5MHz+10MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20428	826.8	20500	834	24.92	-1.35	23.57	227.51	7
20478	831.8	20550	839	24.61	-1.35	23.26	211.84	7
20528	836.8	20600	844	24.73	-1.35	23.38	217.77	7

CHANNEL BANDWIDTH: 5MHz+10MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20428	826.8	20500	834	23.91	-1.35	22.56	180.30	7
20478	831.8	20550	839	23.86	-1.35	22.51	178.24	7
20528	836.8	20600	844	23.89	-1.35	22.54	179.47	7

CHANNEL BANDWIDTH: 5MHz+10MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20428	826.8	20500	834	22.88	-1.35	21.53	142.23	7
20478	831.8	20550	839	22.93	-1.35	21.58	143.88	7
20528	836.8	20600	844	23.08	-1.35	21.73	148.94	7

CHANNEL BANDWIDTH: 5MHz+10MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20428	826.8	20500	834	20.53	-1.35	19.18	82.79	7
20478	831.8	20550	839	20.51	-1.35	19.16	82.41	7
20528	836.8	20600	844	20.54	-1.35	19.19	82.99	7

CHANNEL BANDWIDTH: 10MHz+5MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20522	836.2	24.73	-1.35	23.38	217.77	7
20500	834	20572	841.2	24.61	-1.35	23.26	211.84	7
20550	839	20622	846.2	24.83	-1.35	23.48	222.84	7

CHANNEL BANDWIDTH: 10MHz+5MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20522	836.2	23.81	-1.35	22.46	176.20	7
20500	834	20572	841.2	23.83	-1.35	22.48	177.01	7
20550	839	20622	846.2	23.82	-1.35	22.47	176.60	7

CHANNEL BANDWIDTH: 10MHz+5MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20522	836.2	22.93	-1.35	21.58	143.88	7
20500	834	20572	841.2	22.92	-1.35	21.57	143.55	7
20550	839	20622	846.2	22.91	-1.35	21.56	143.22	7

CHANNEL BANDWIDTH: 10MHz+5MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20522	836.2	20.46	-1.35	19.11	81.47	7
20500	834	20572	841.2	20.56	-1.35	19.21	83.37	7
20550	839	20622	846.2	20.50	-1.35	19.15	82.22	7

**CHANNEL BANDWIDTH: 10MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20549	838.9	24.79	-1.35	23.44	220.80	7
20476	831.6	20575	841.5	24.68	-1.35	23.33	215.28	7
20501	834.1	20600	844	24.64	-1.35	23.29	213.30	7

CHANNEL BANDWIDTH: 10MHz+10MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20549	838.9	23.78	-1.35	22.43	174.98	7
20476	831.6	20575	841.5	23.85	-1.35	22.50	177.83	7
20501	834.1	20600	844	23.86	-1.35	22.51	178.24	7

CHANNEL BANDWIDTH: 10MHz+10MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20549	838.9	22.87	-1.35	21.52	141.91	7
20476	831.6	20575	841.5	22.86	-1.35	21.51	141.58	7
20501	834.1	20600	844	22.85	-1.35	21.50	141.25	7

CHANNEL BANDWIDTH: 10MHz+10MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	20549	838.9	20.51	-1.35	19.16	82.41	7
20476	831.6	20575	841.5	20.57	-1.35	19.22	83.56	7
20501	834.1	20600	844	20.61	-1.35	19.26	84.33	7

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

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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 .

3.2.2 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,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}.$

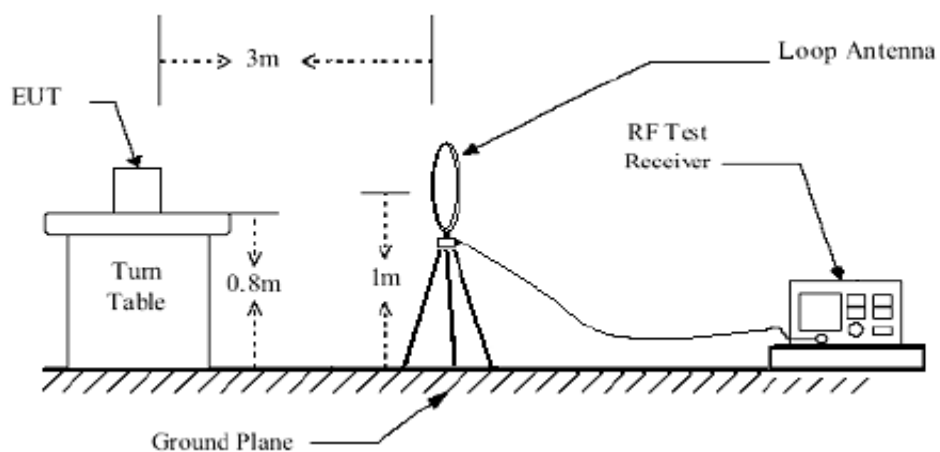
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.2.3 DEVIATION FROM TEST STANDARD

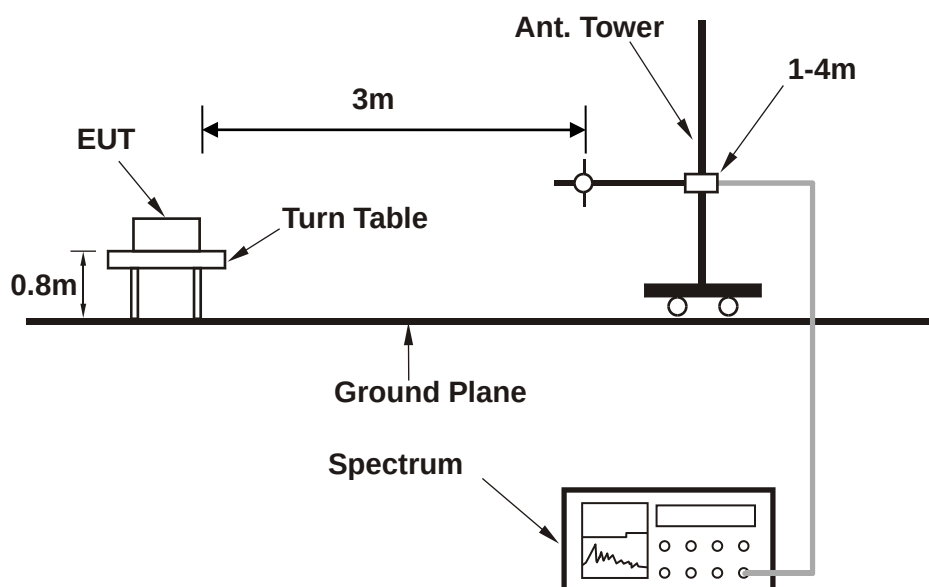
No deviation

3.2.4 TEST SETUP

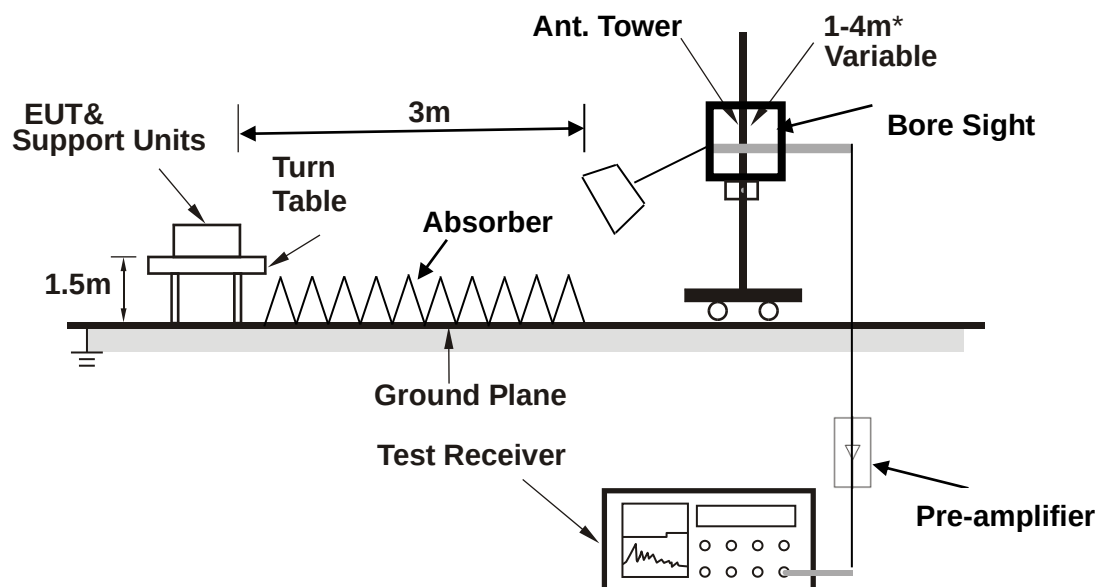
< Frequency Range below 30MHz >



< 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).

3.2.5 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

30 MHz – 1GHz data:

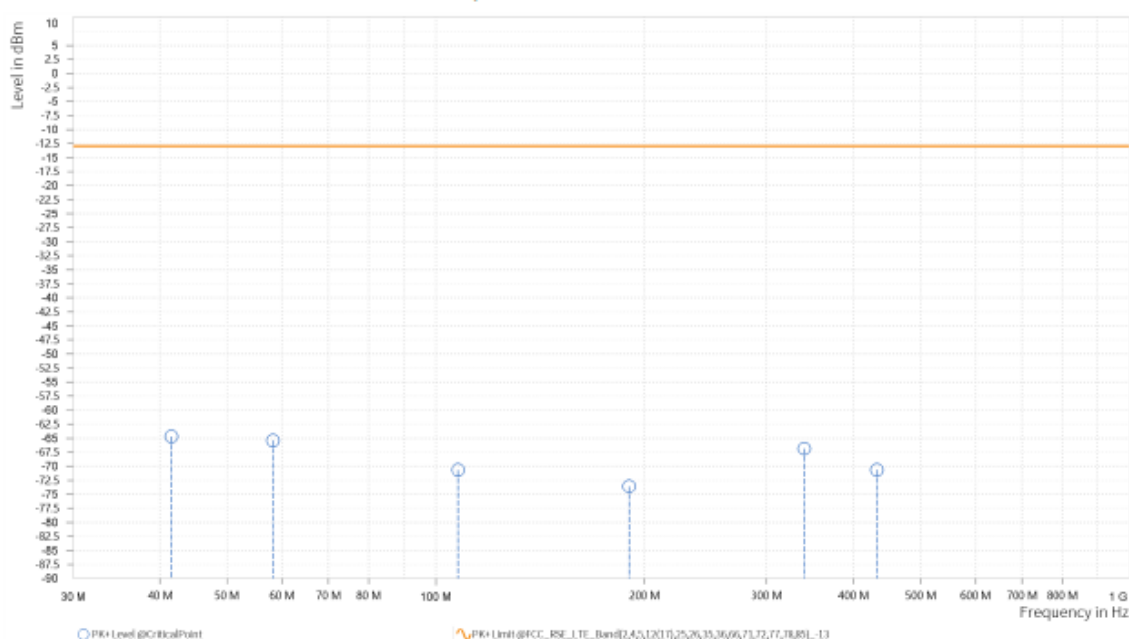
LTE BAND 26:

CHANNEL BANDWIDTH: 1.4MHz

MODE	TX channel 26915	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	41.550	-64.71	-13.00	51.71	0.79	H	359	1
1	58.250	-65.40	-13.00	52.40	2.65	H	359	1
1	107.650	-70.69	-13.00	57.69	-0.41	H	355.4	2
1	190.000	-73.60	-13.00	60.60	-0.77	H	359	1
1	339.850	-66.86	-13.00	53.86	6.15	H	182.4	2
1	432.800	-70.64	-13.00	57.64	6.09	H	4.5	1

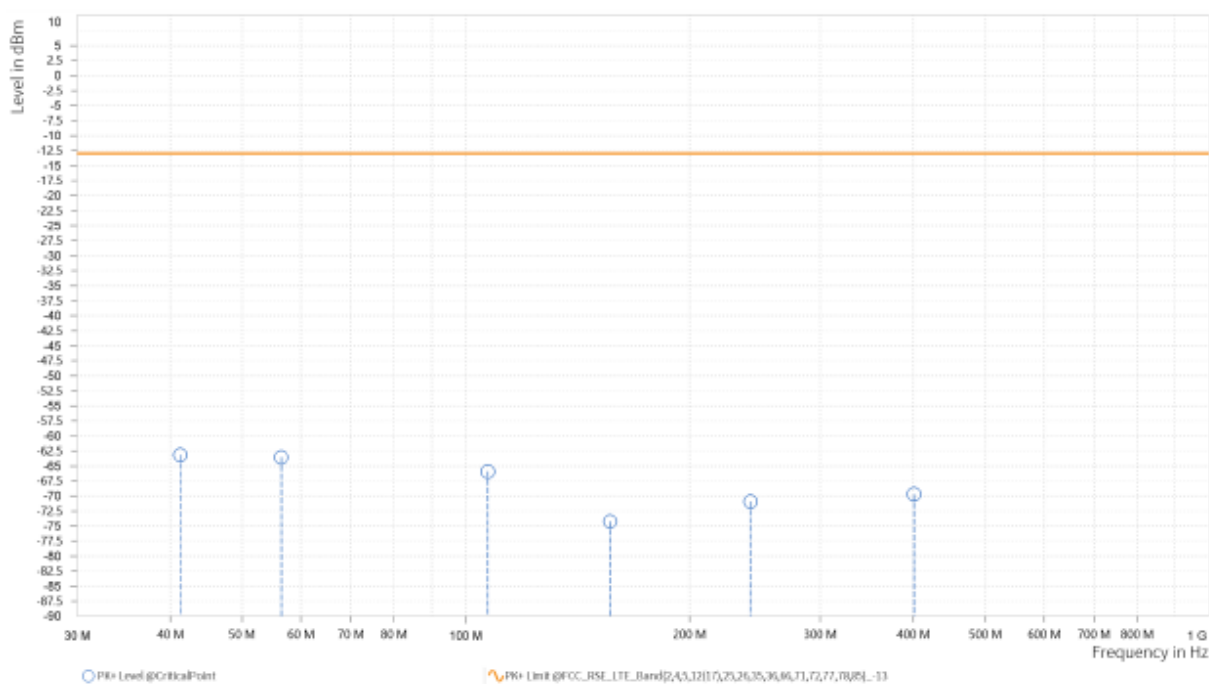
Spectrum Overview



MODE	TX channel 26915	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	41.250	-63.17	-13.00	50.17	1.94	V	337.5	1
1	56.450	-63.57	-13.00	50.57	3.27	V	1	1
1	107.050	-65.91	-13.00	52.91	3.53	V	354.9	2
1	156.250	-74.23	-13.00	61.23	-1.63	V	359.1	1
1	241.450	-70.94	-13.00	57.94	3.32	V	359.1	1
1	400.700	-69.73	-13.00	56.73	6.70	V	21.5	2

Spectrum Overview





ABOVE 1GHz DATA

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

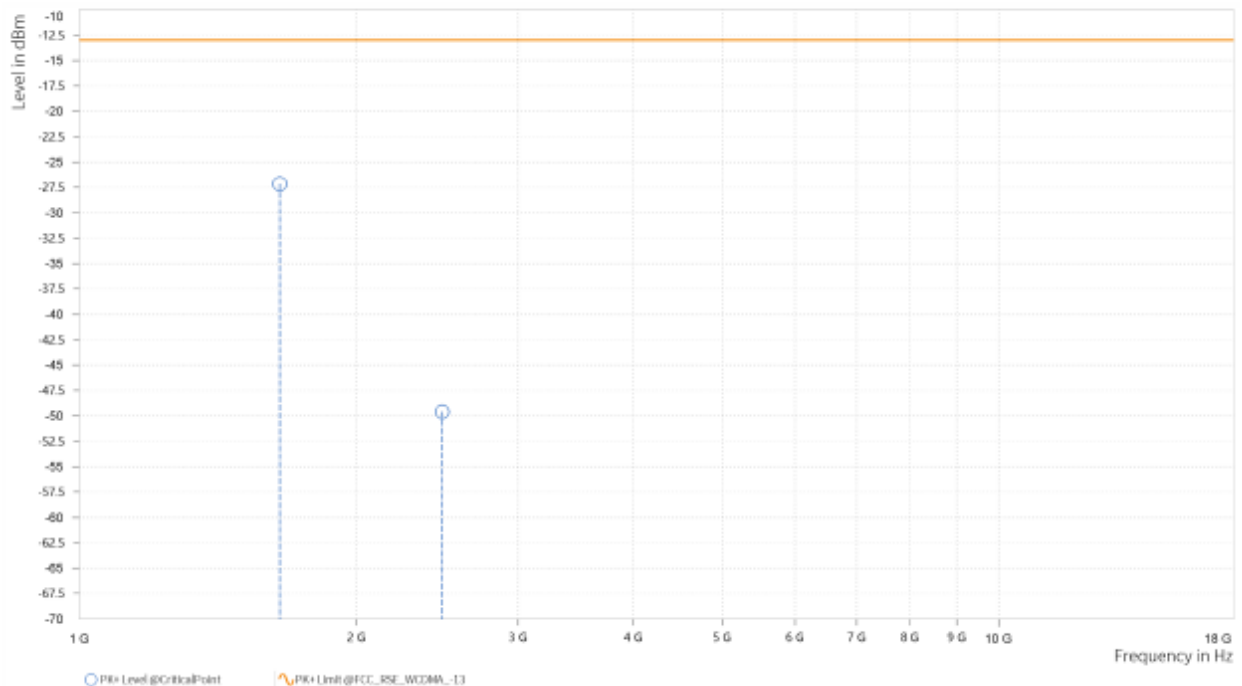
WCDMA Band V:

CH 4132:

MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,650.500	-27.16	-13.00	14.16	17.27	H	65.3	1
3	2,479.000	-49.58	-13.00	36.58	22.33	H	232.6	2

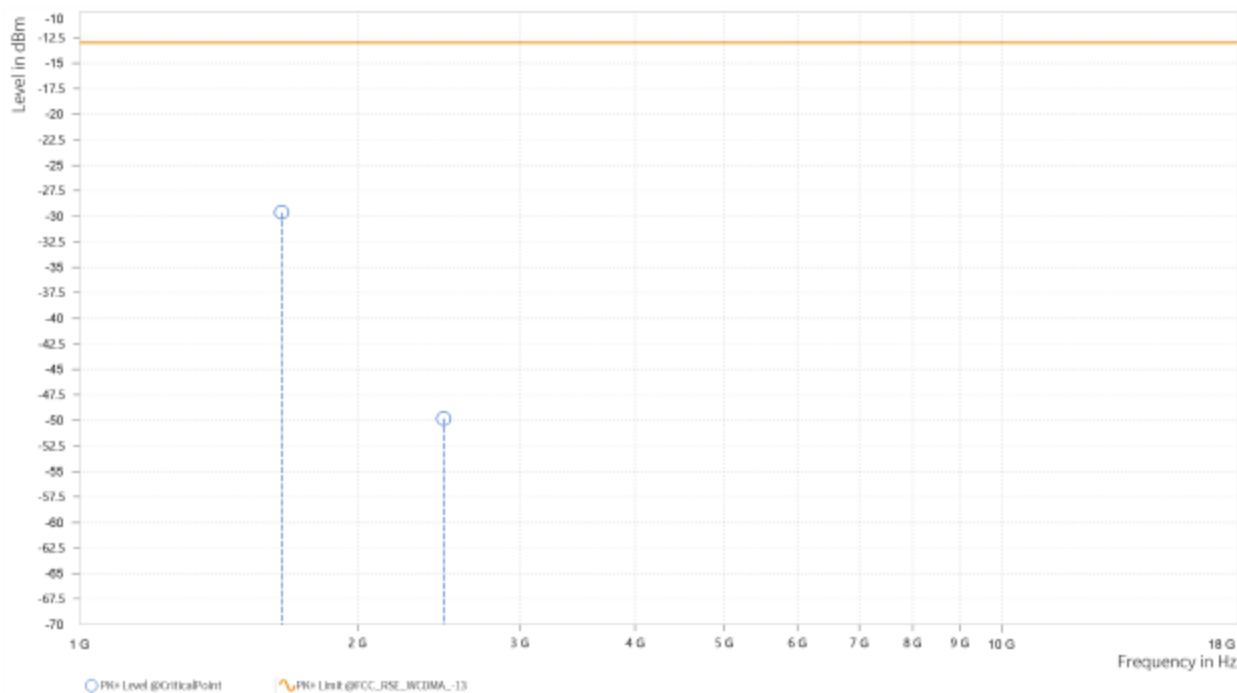
Spectrum Overview



MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,655.000	-29.62	-13.00	16.62	16.88	V	66.6	1
3	2,479.000	-49.81	-13.00	36.81	22.00	V	232.6	2

Spectrum Overview

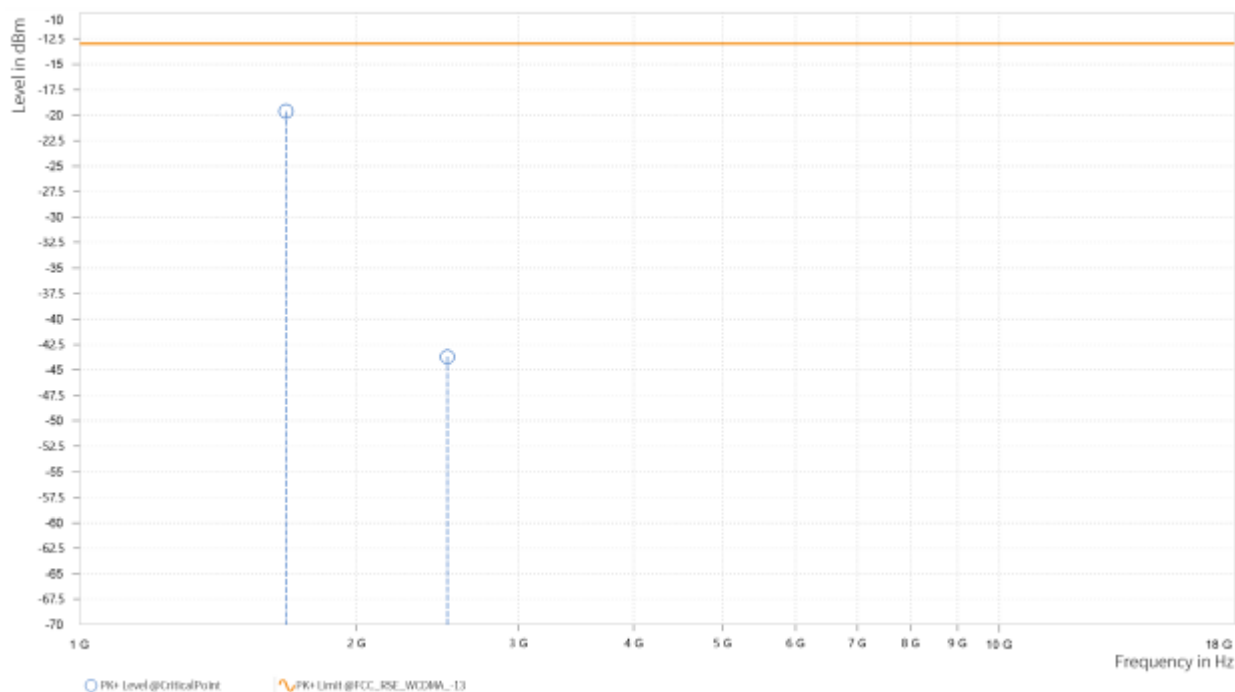


CH 4182:

MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,675.500	-19.63	-13.00	6.63	18.13	H	359.1	1
3	2,509.000	-43.70	-13.00	30.70	22.03	H	127.4	1

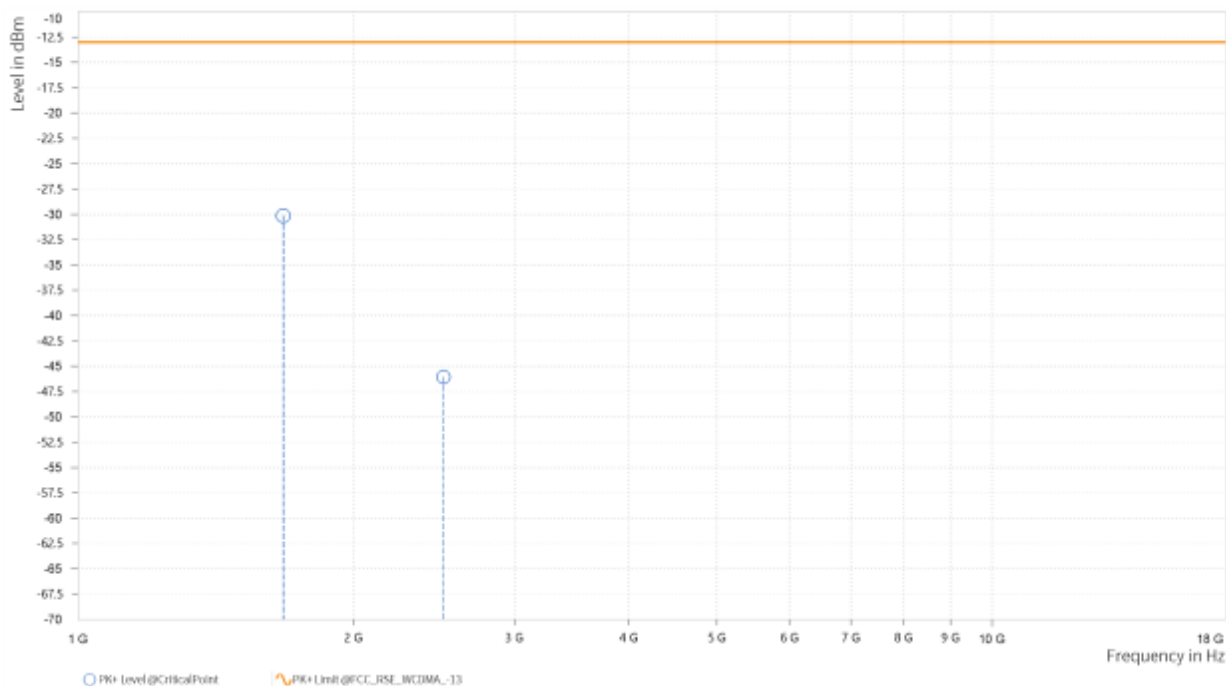
Spectrum Overview



MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,675.500	-30.13	-13.00	17.13	17.98	V	359.1	1
3	2,509.000	-46.05	-13.00	33.05	21.69	V	1	1

Spectrum Overview

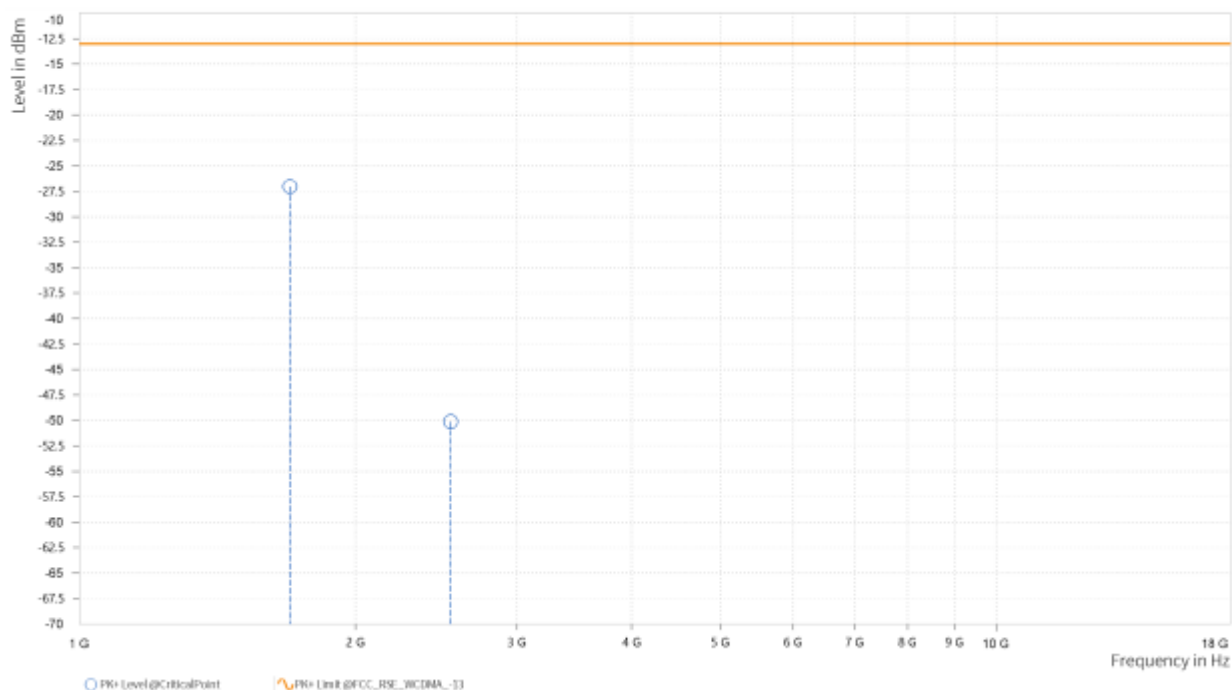


CH 4233:

MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,695.500	-27.03	-13.00	14.03	18.76	H	1	1
3	2,540.000	-50.14	-13.00	37.14	22.14	H	359.1	1

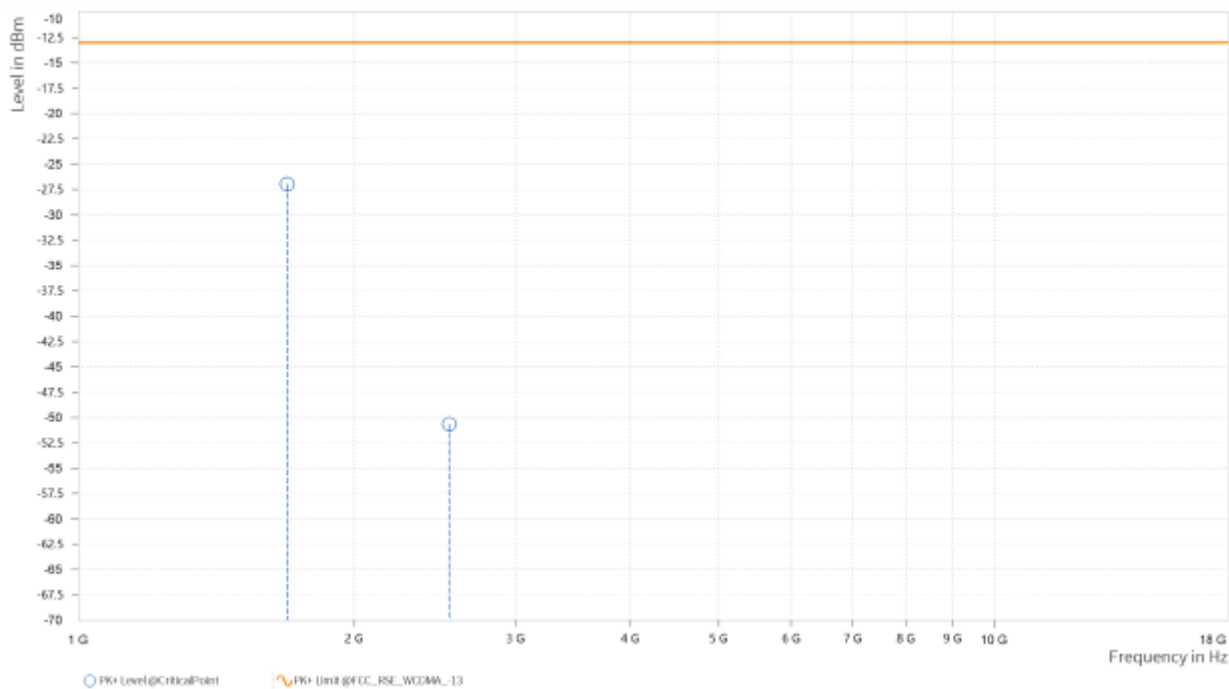
Spectrum Overview



MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,691.000	-26.97	-13.00	13.97	18.80	V	65.4	1
3	2,540.000	-50.67	-13.00	37.67	21.91	V	128.6	1

Spectrum Overview



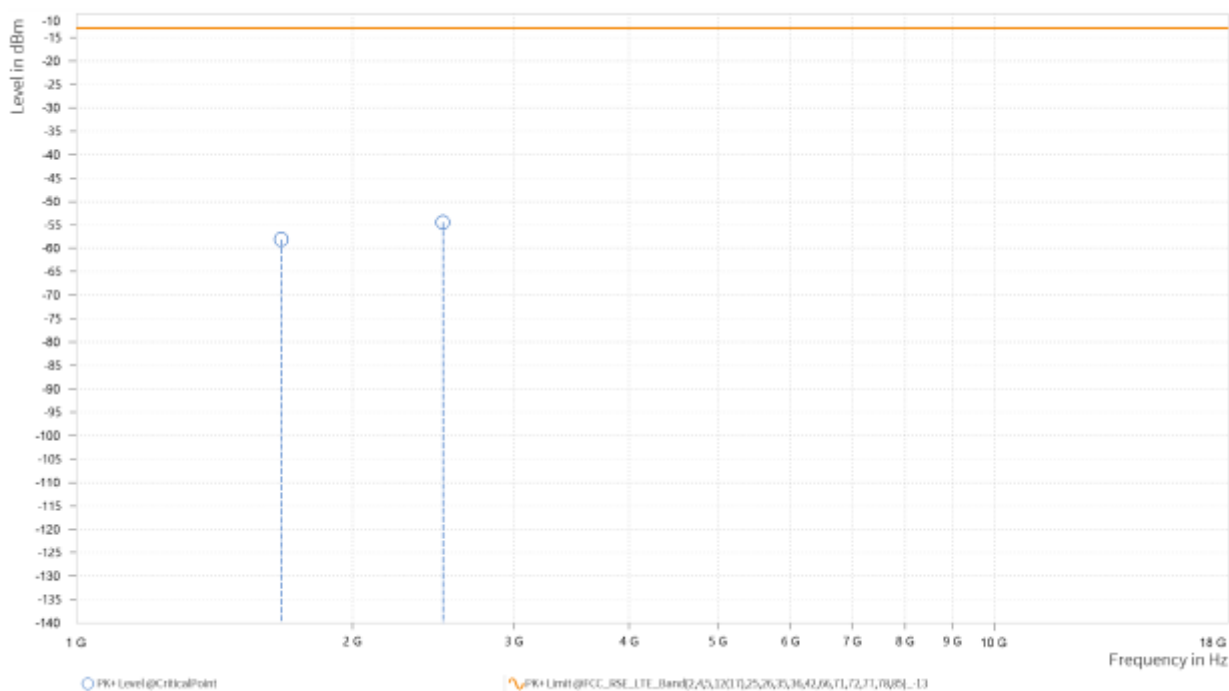
LTE Band 26

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH26915

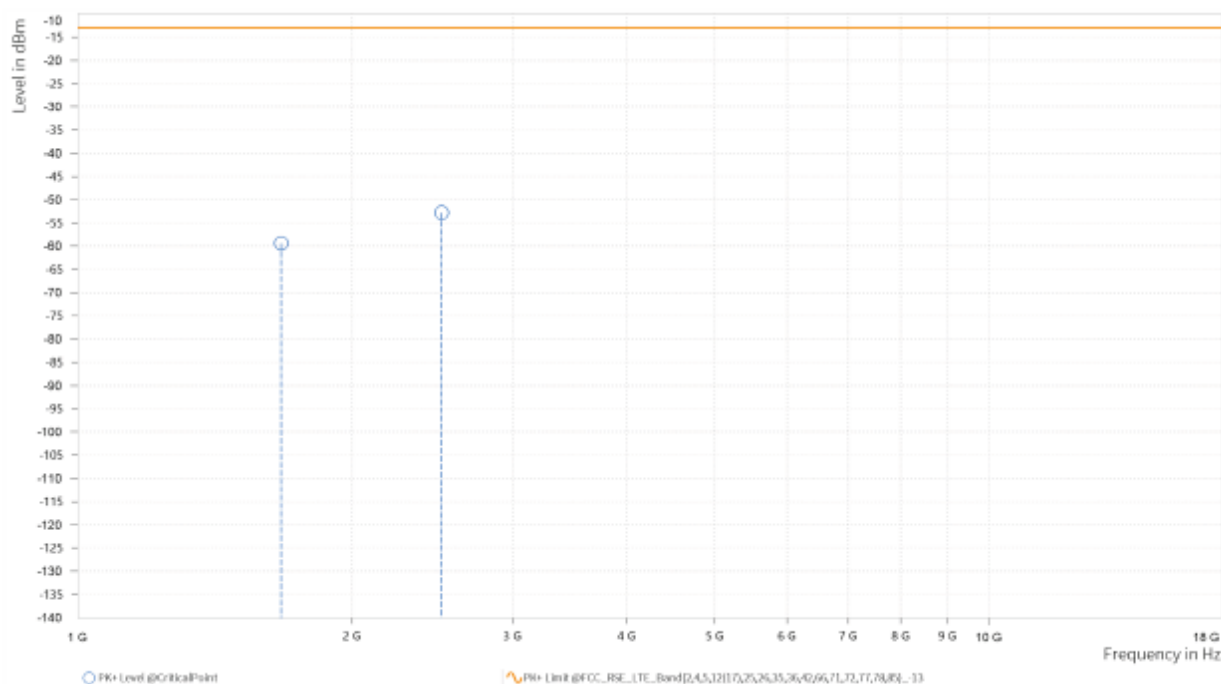
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,671.740	-58.08	-13.00	45.08	16.05	H	0.9	2
3	2,507.610	-54.42	-13.00	41.42	21.17	H	359	2



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

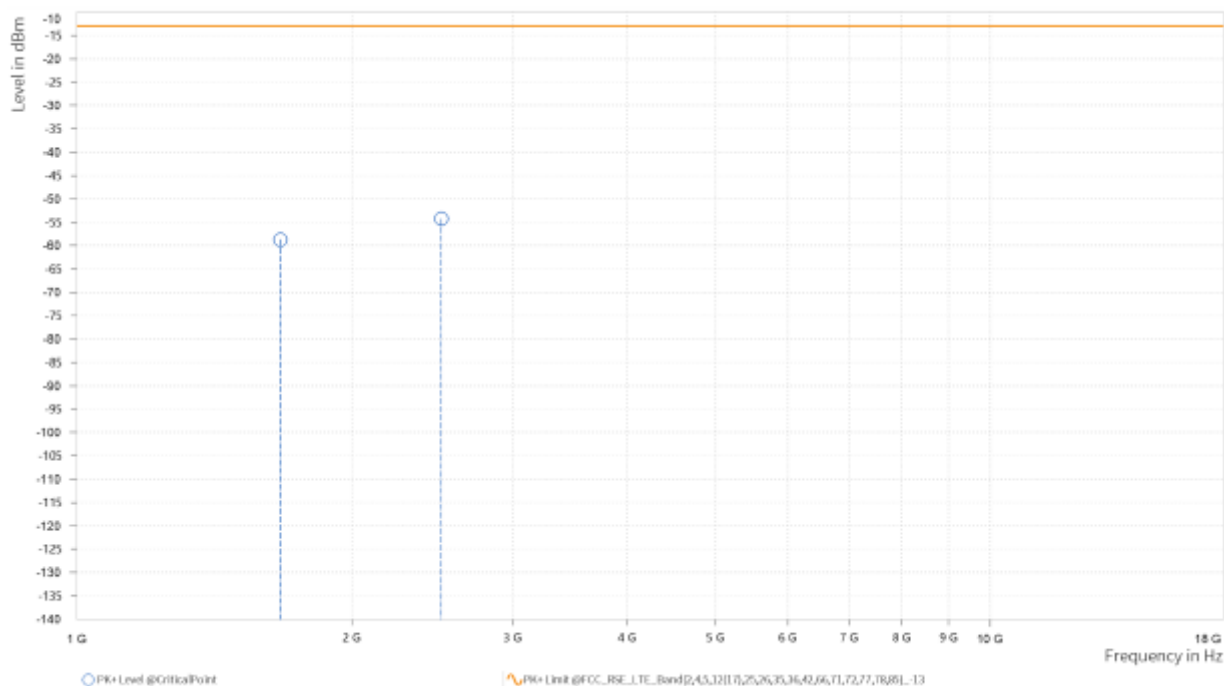
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,671.740	-59.39	-13.00	46.39	14.95	V	6.2	2
3	2,507.610	-52.78	-13.00	39.78	21.73	V	0.9	2



CHANNEL BANDWIDTH: 3MHz / QPSK

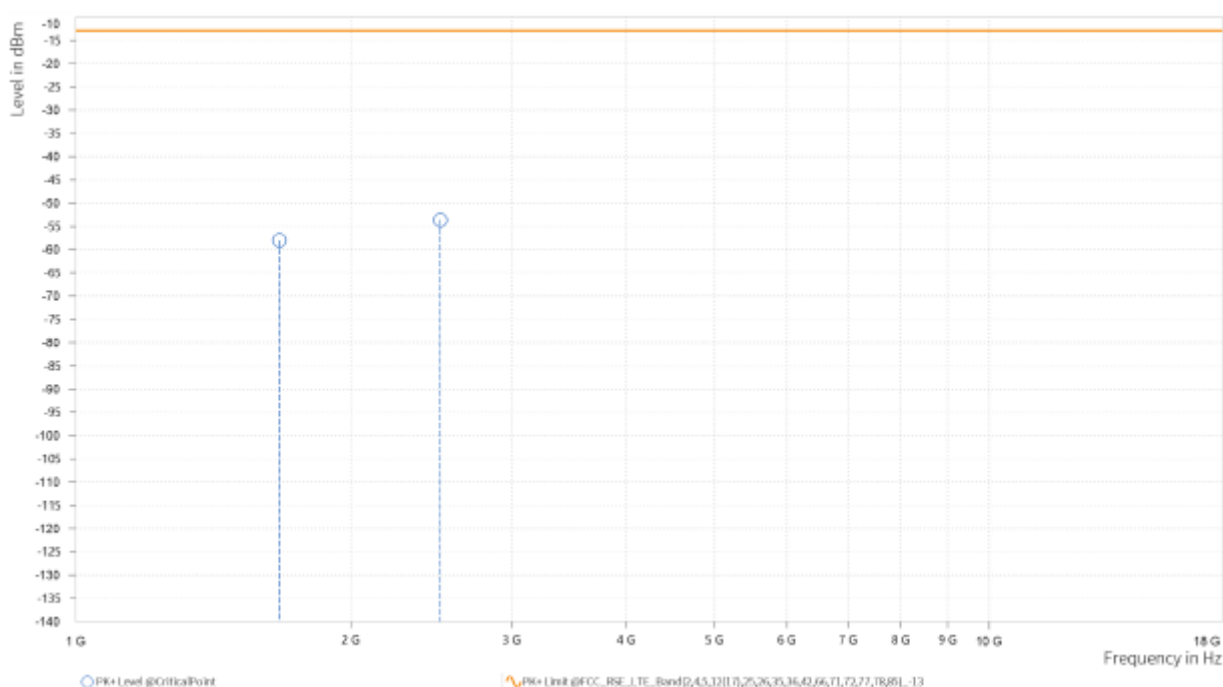
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,670.300	-58.72	-13.00	45.72	16.04	H	5.8	2
3	2,505.450	-54.26	-13.00	41.26	21.15	H	294.6	1



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,670.300	-58.01	-13.00	45.01	14.93	V	306.9	2
3	2,505.450	-53.62	-13.00	40.62	21.67	V	357.4	1

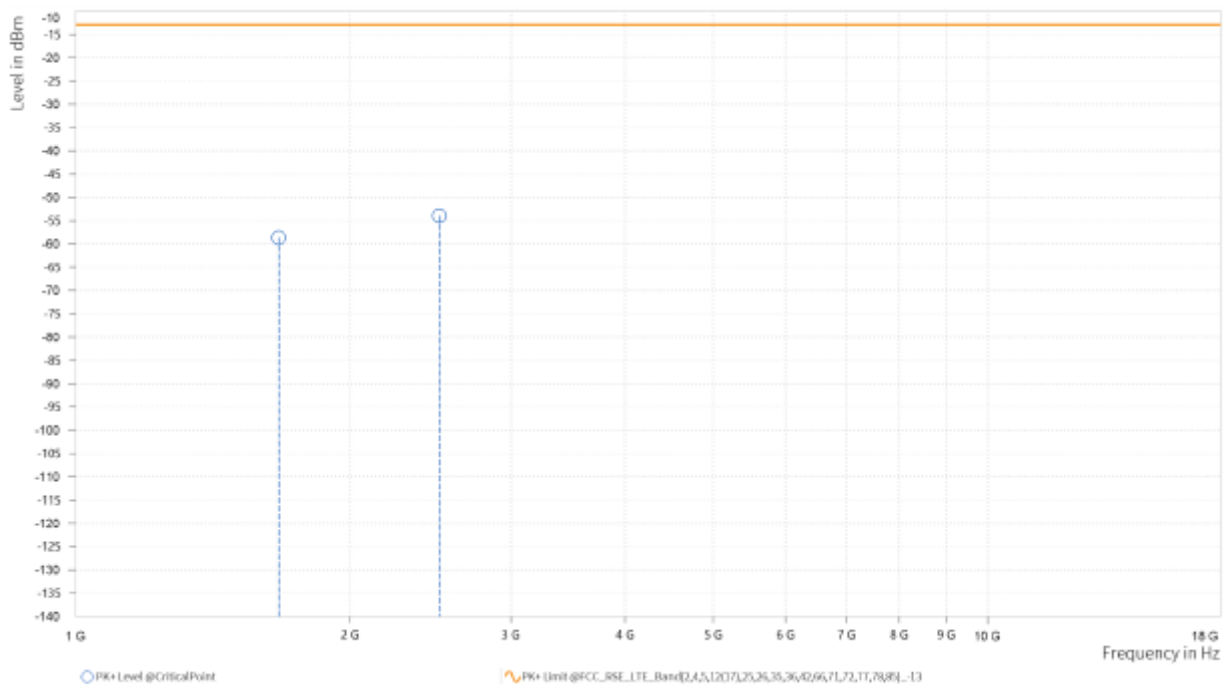




CHANNEL BANDWIDTH: 5MHz / QPSK

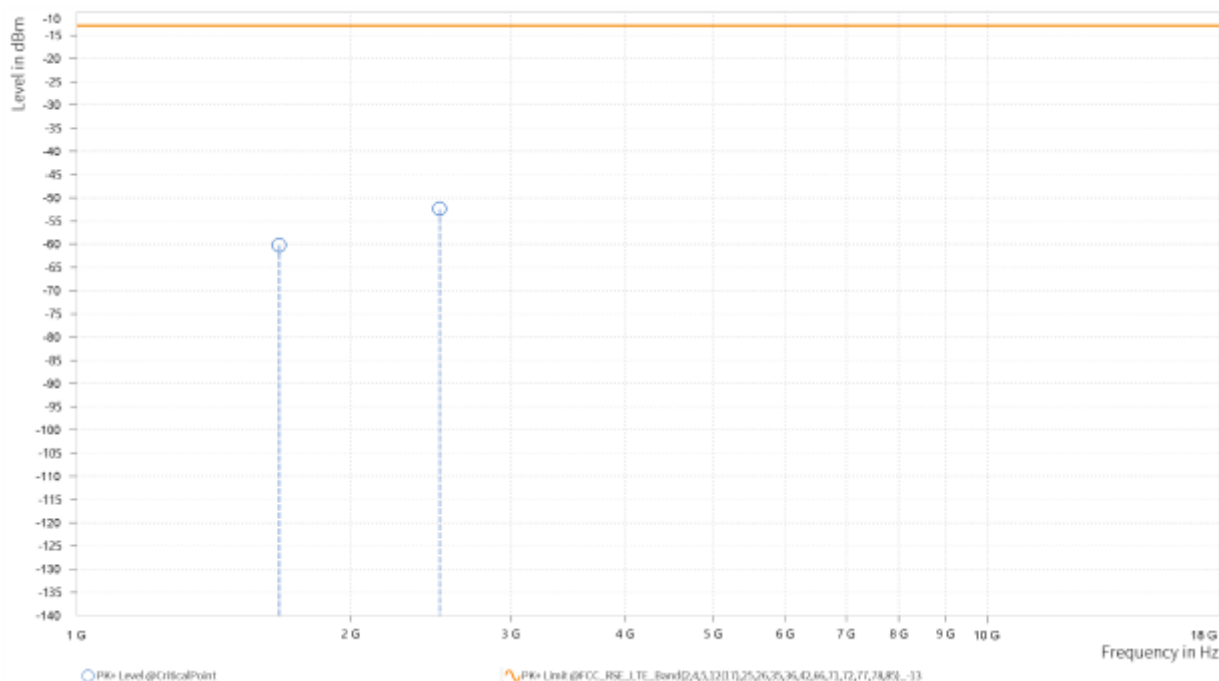
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,668.500	-58.63	-13.00	45.63	16.01	H	359	2
3	2,502.750	-53.97	-13.00	40.97	21.14	H	0.9	2



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,668.500	-60.21	-13.00	47.21	14.90	V	1	1
3	2,502.750	-52.36	-13.00	39.36	21.58	V	102.2	1

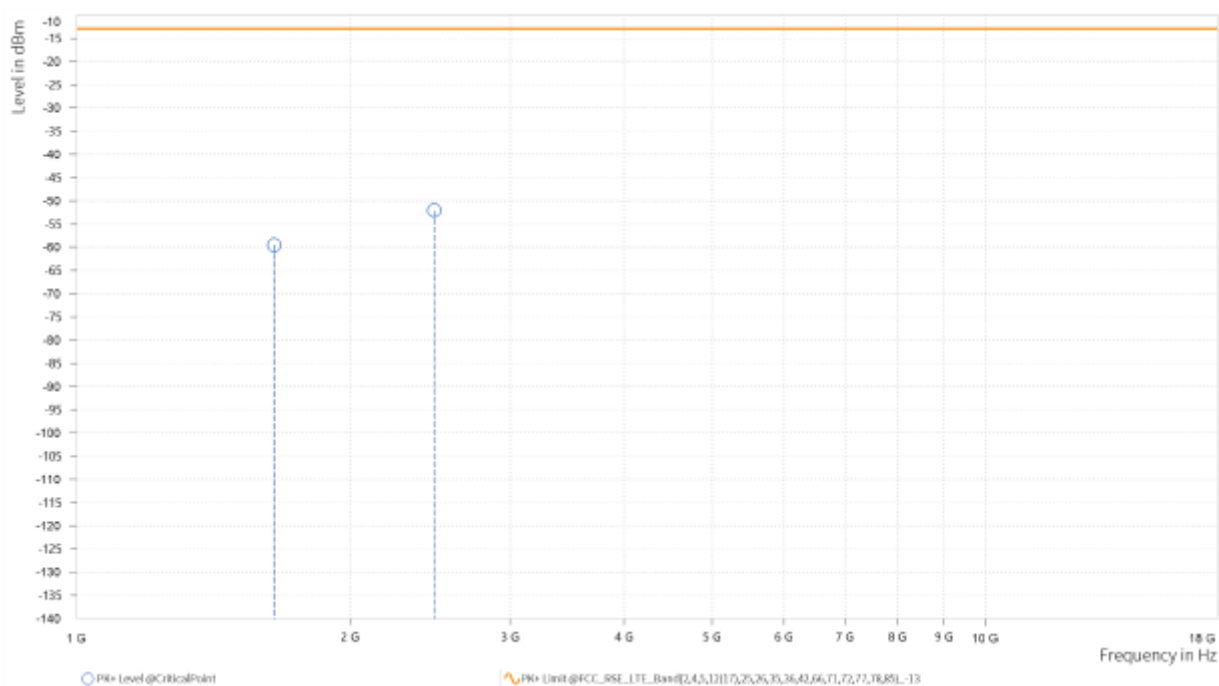


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 26840

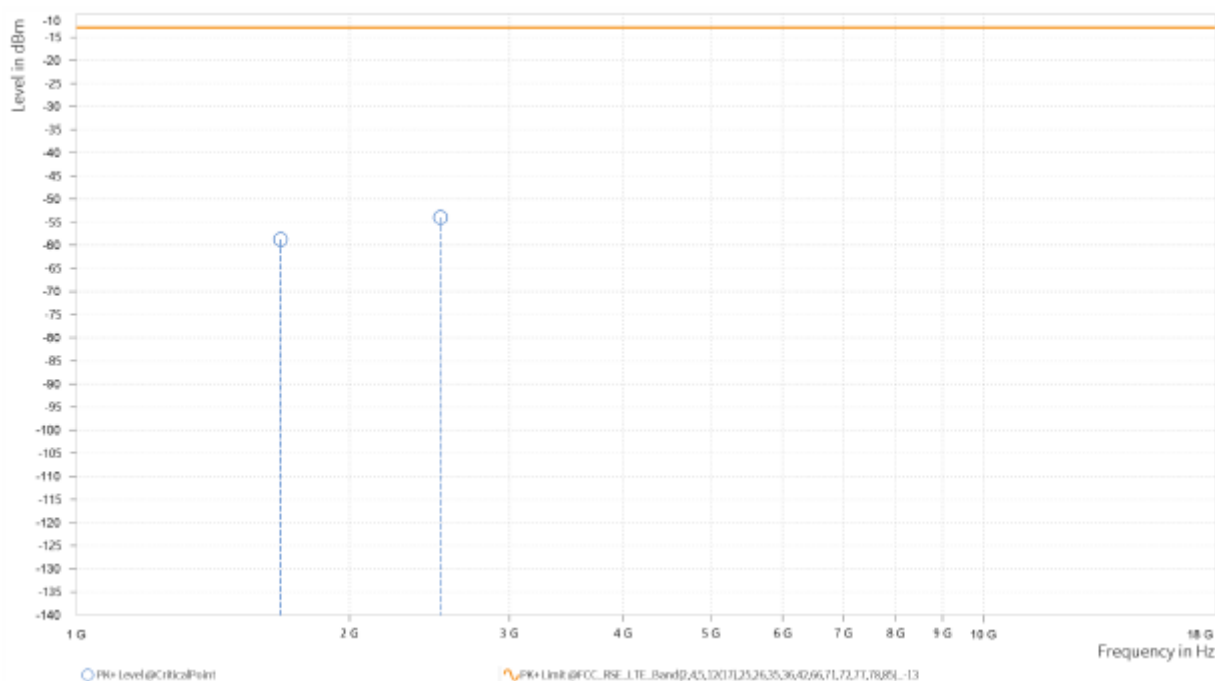
MODE	TX channel 26840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,649.000	-59.54	-13.00	46.54	15.41	H	359	2
3	2,473.500	-52.08	-13.00	39.08	20.82	H	100.9	1



MODE	TX channel 26840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-58.73	-13.00	45.73	15.11	V	85.7	2
3	2,518.500	-54.00	-13.00	41.00	21.78	V	6.6	2

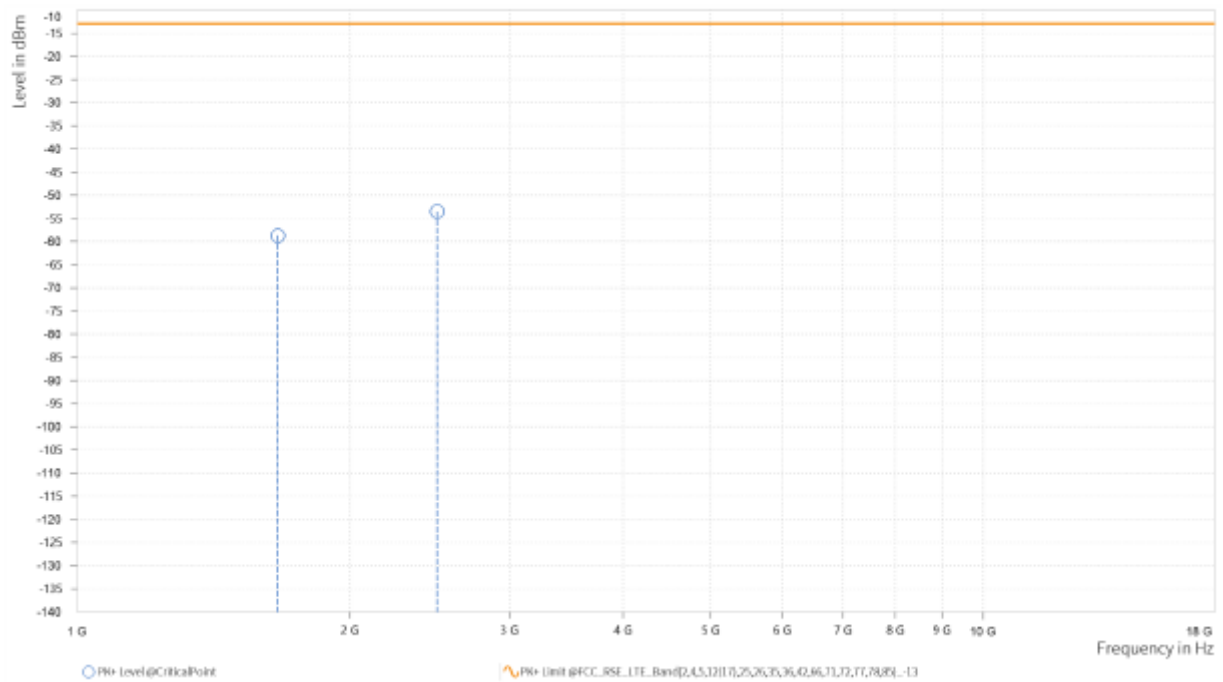




CH 26915

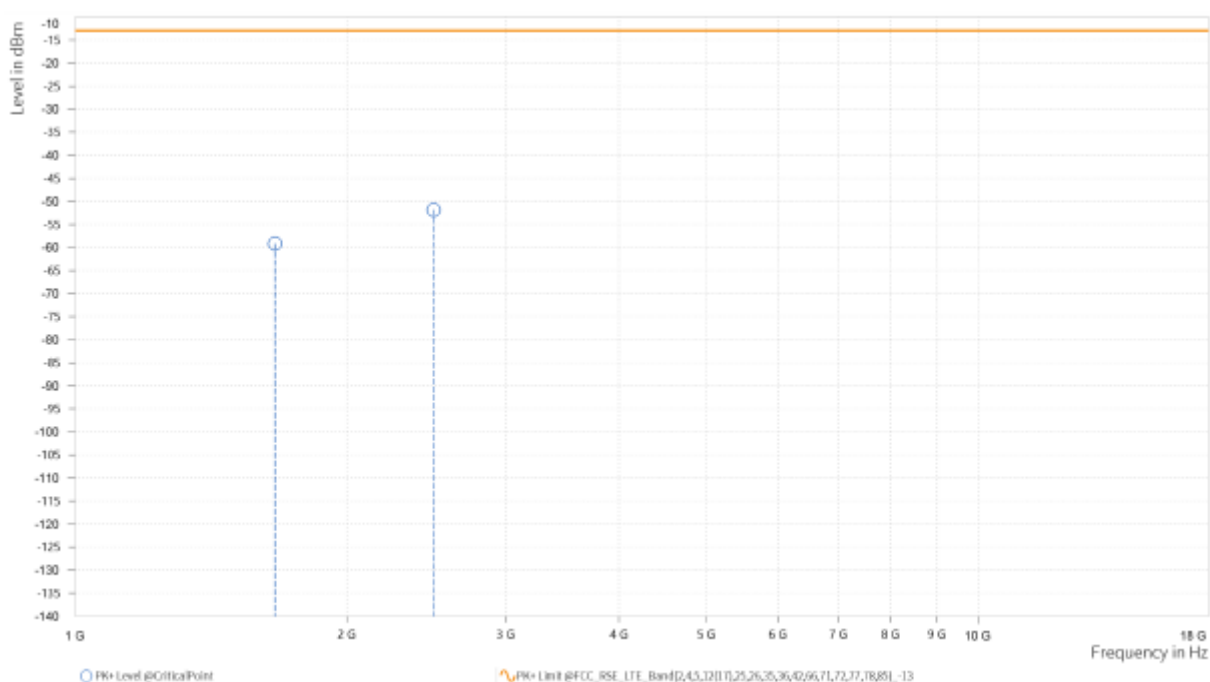
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-58.73	-13.00	45.73	15.94	H	50.8	1
3	2,496.000	-53.52	-13.00	40.52	21.20	H	65.4	2



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-59.13	-13.00	46.13	14.82	V	353.4	1
3	2,496.000	-51.83	-13.00	38.83	21.48	V	291	1

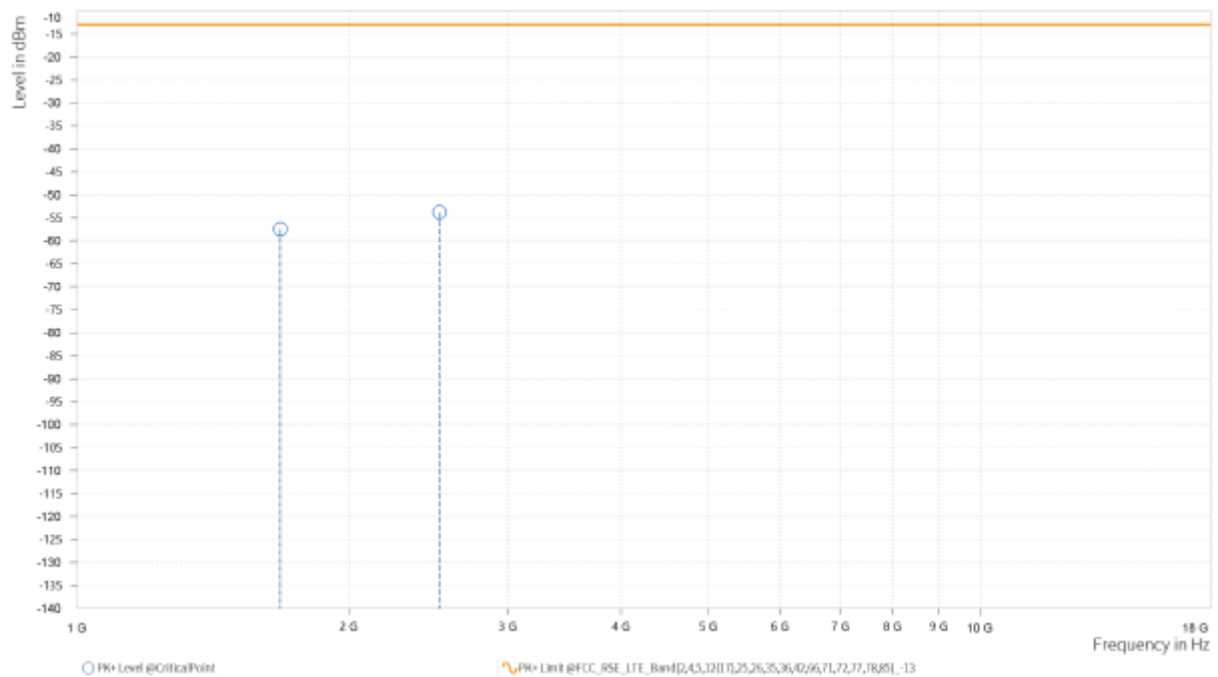




CH 26990

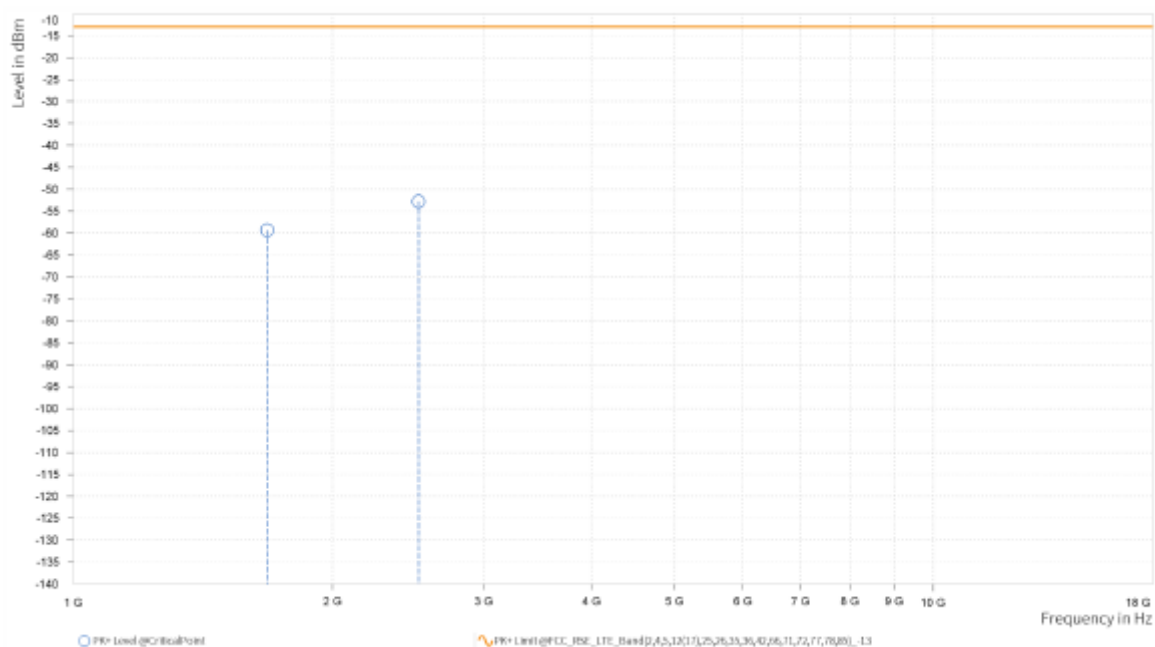
MODE	TX channel 26990	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-57.43	-13.00	44.43	16.19	H	12.1	2
3	2,518.500	-53.82	-13.00	40.82	20.93	H	286.2	1



MODE	TX channel 26990	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-59.33	-13.00	46.33	15.11	V	1	1.00
3	2,518.500	-52.74	-13.00	39.74	21.78	V	104.5	1.00

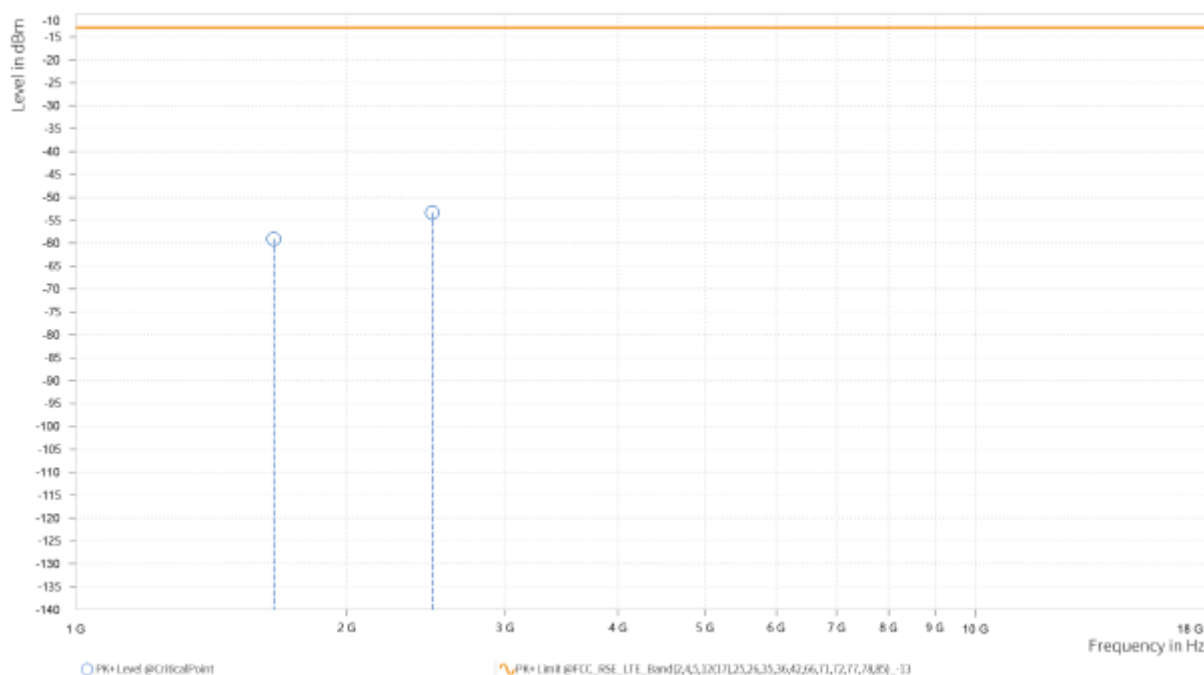


CHANNEL BANDWIDTH: 15MHz / QPSK

CH26915

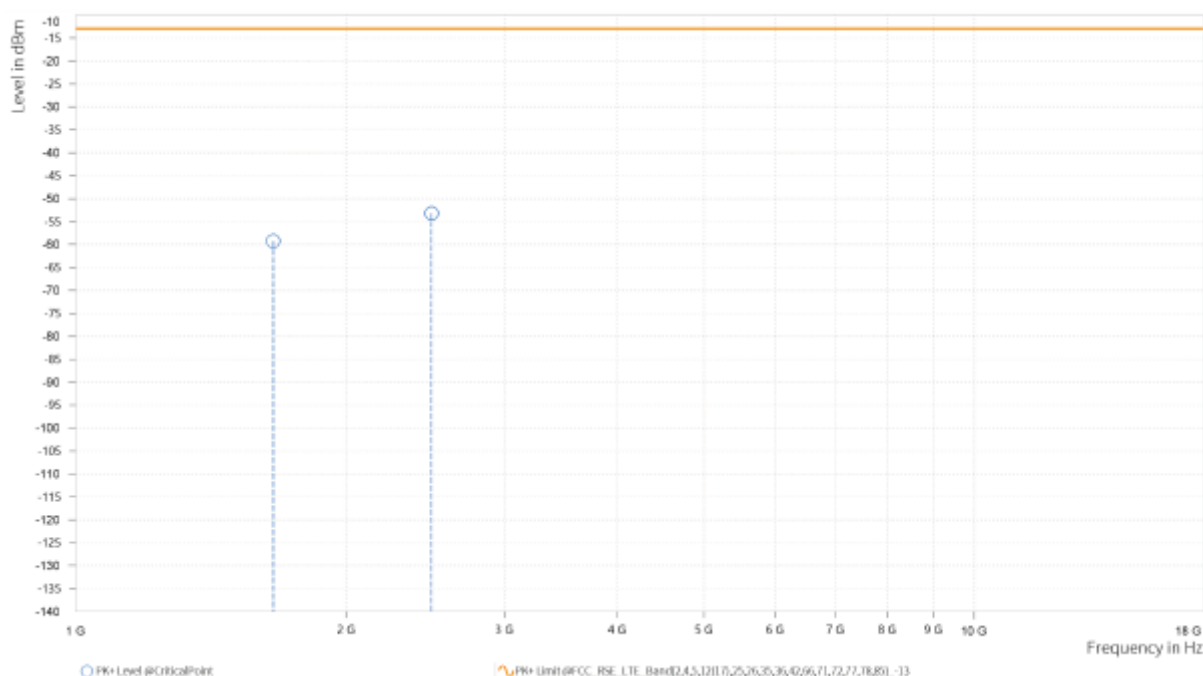
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,659.500	-59.07	-13.00	46.07	15.88	H	12.2	2
3	2,489.250	-53.33	-13.00	40.33	21.13	H	257.8	2



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,659.500	-59.28	-13.00	46.28	14.76	V	348.7	1
3	2,489.250	-53.20	-13.00	40.20	21.36	V	255.4	2





LTE Band CA 5B

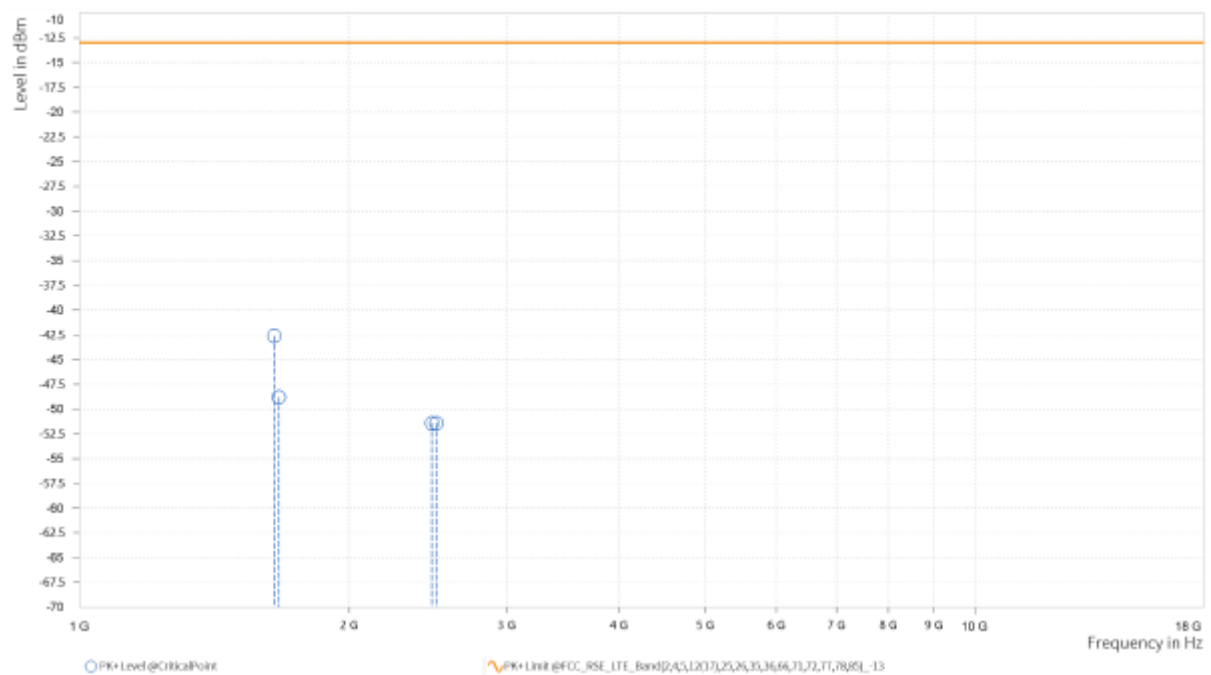
CHANNEL BANDWIDTH: 10+10MHz / QPSK

CH20450/20549

MODE	TX channel 20450/20549	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,649.000	-42.62	-13.00	29.62	17.22	H	298.5	1
2	1,668.800	-48.80	-13.00	35.80	17.88	H	1	1
3	2,473.500	-51.44	-13.00	38.44	22.40	H	1	1
3	2,503.200	-51.43	-13.00	38.43	22.07	H	0.9	2

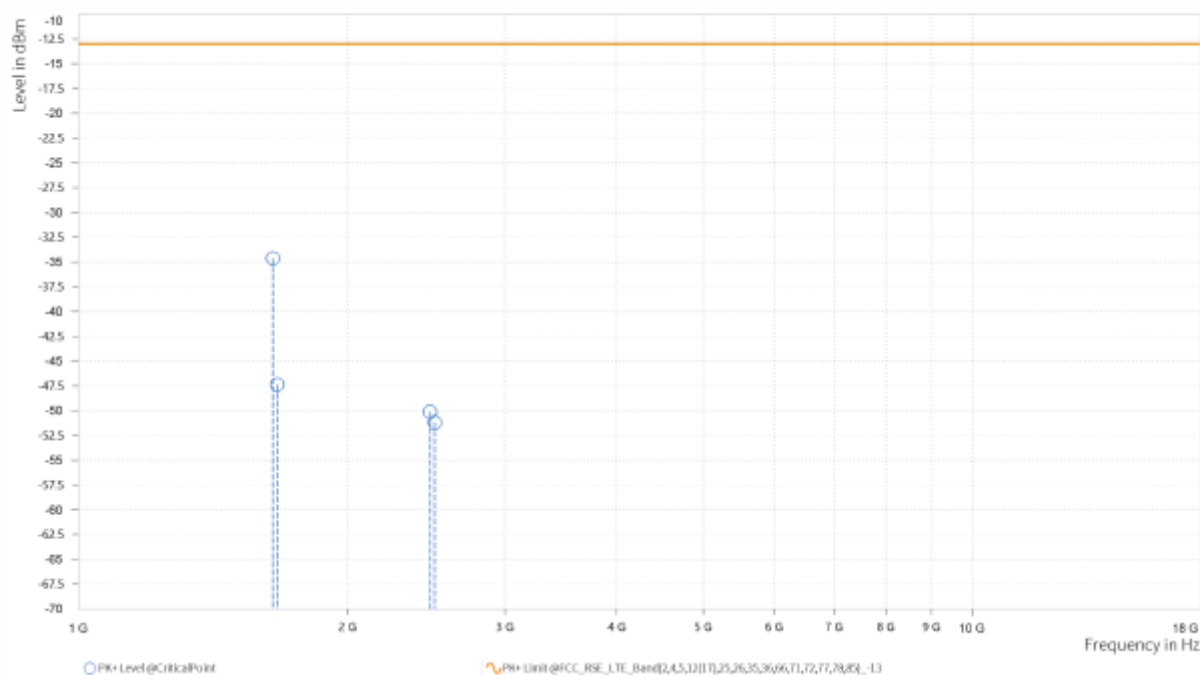
Spectrum Overview



MODE	TX channel 20450/20549	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,649.000	-34.64	-13.00	21.64	16.69	V	1	1
2	1,668.800	-47.38	-13.00	34.38	17.62	V	1	1
3	2,473.500	-50.14	-13.00	37.14	22.10	V	1	1
3	2,503.200	-51.20	-13.00	38.20	21.71	V	108.3	1

Spectrum Overview



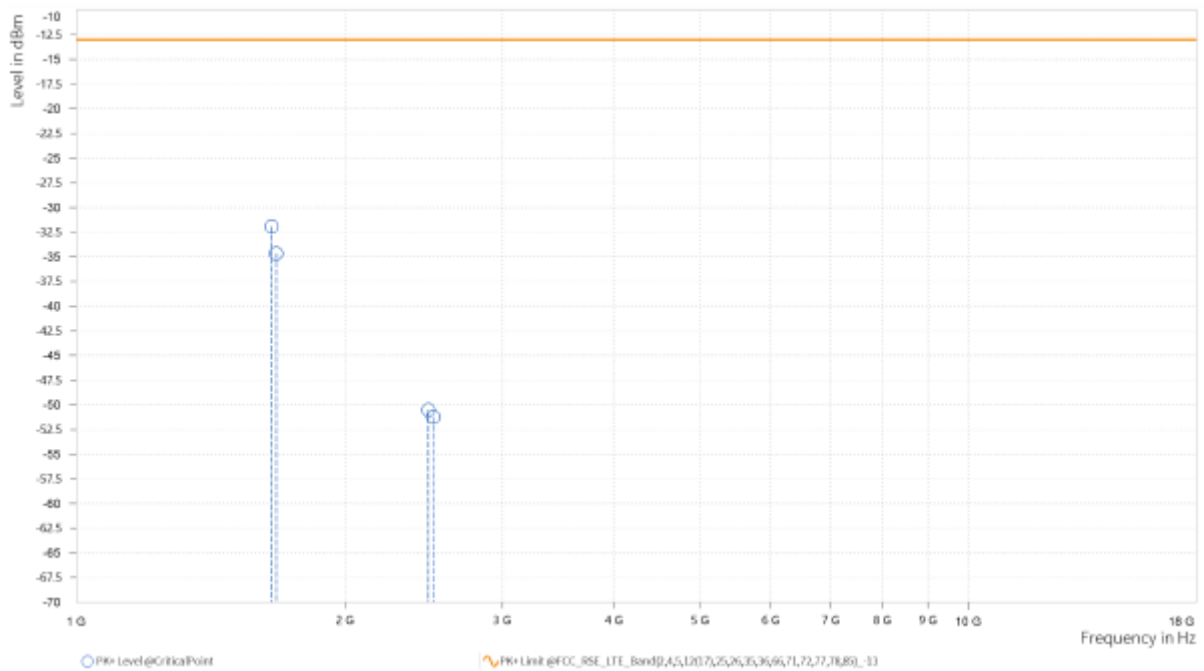


CH20476/20575

MODE	TX channel 20476/20575	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,655.000	-31.93	-13.00	18.93	17.37	H	58.2	1
2	1,674.500	-34.66	-13.00	21.66	18.09	H	1	1
3	2,481.000	-50.51	-13.00	37.51	22.30	H	1	1
3	2,511.000	-51.24	-13.00	38.24	22.02	H	113.1	1

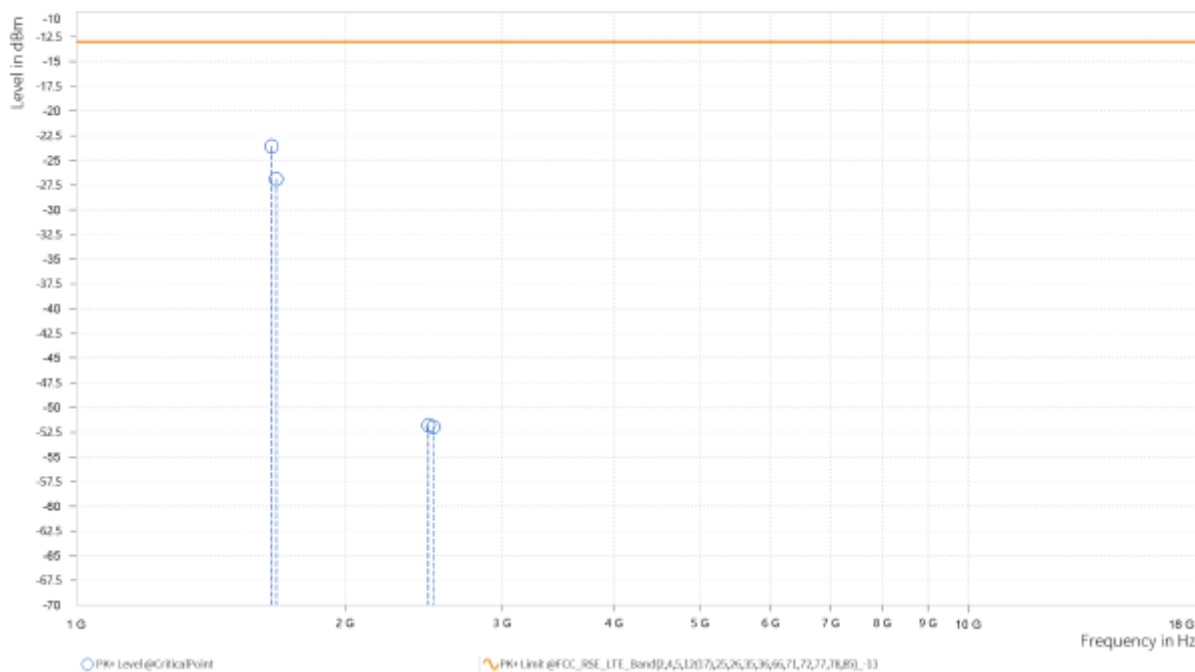
Spectrum Overview



MODE	TX channel 20476/20575	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,654.500	-23.57	-13.00	10.57	16.86	V	359	2
2	1,674.500	-26.88	-13.00	13.88	17.93	V	359	2
3	2,481.000	-51.80	-13.00	38.80	21.97	V	0.9	2
3	2,511.000	-51.97	-13.00	38.97	21.68	V	247	2

Spectrum Overview



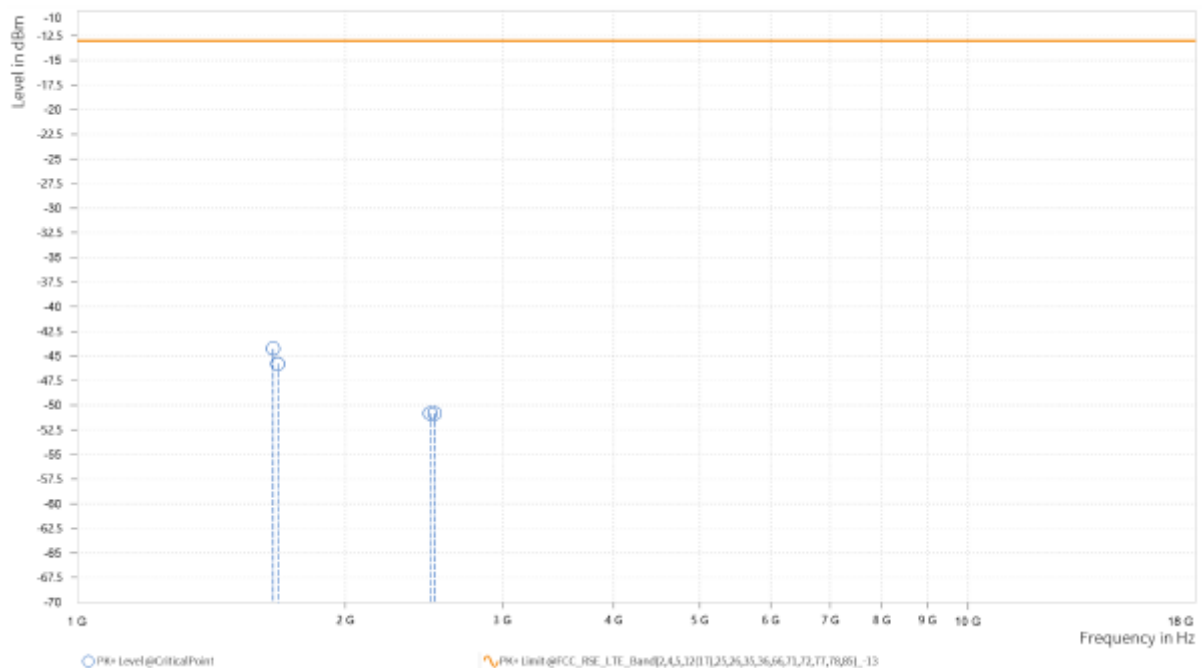


CH20501/20600

MODE	TX channel 20501/20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,659.000	-44.26	-13.00	31.26	17.49	H	297.3	1
2	1,679.000	-45.79	-13.00	32.79	18.27	H	297.3	1
3	2,488.800	-50.84	-13.00	37.84	22.20	H	358.9	1
3	2,518.500	-50.82	-13.00	37.82	22.05	H	106	1

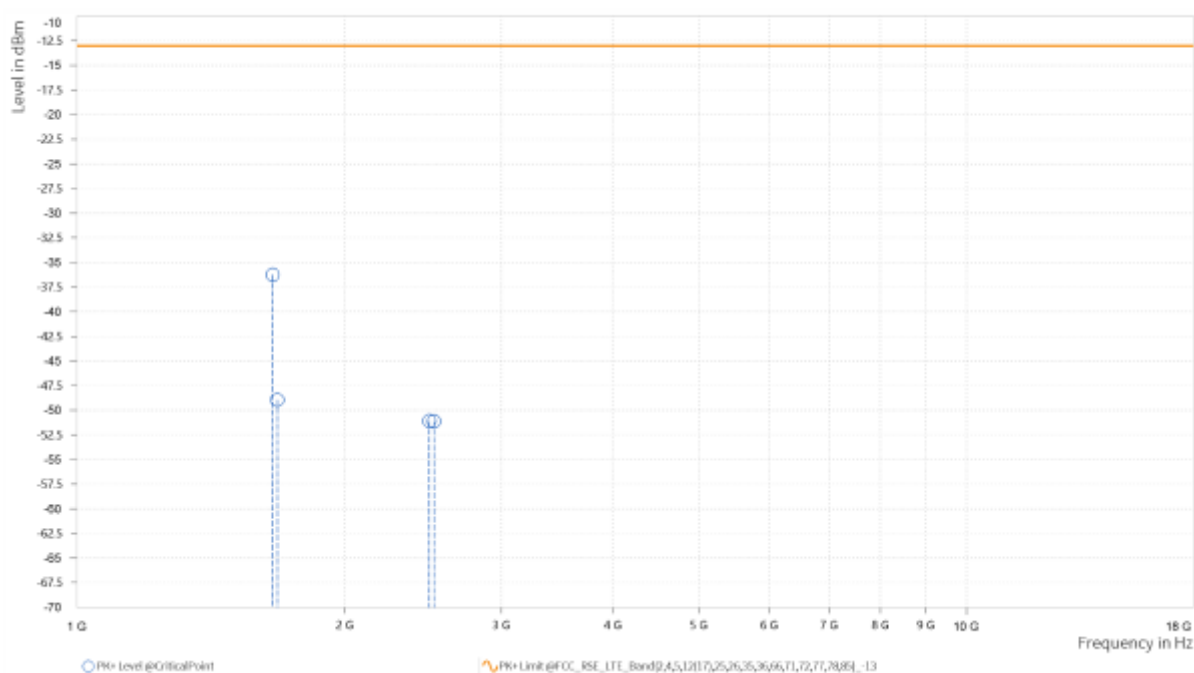
Spectrum Overview



MODE	TX channel 20501/20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,659.500	-36.26	-13.00	23.26	17.10	V	358.6	1
2	1,679.000	-48.94	-13.00	35.94	18.17	V	1	1
3	2,488.800	-51.08	-13.00	38.08	21.84	V	253	2
3	2,518.500	-51.12	-13.00	38.12	21.75	V	359.1	1

Spectrum Overview





Test Report No.: W7L-P23070010RF01

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



Test Report No.: W7L-P23070010RF01

5 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.

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

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008

6 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.

--END--