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Test Report No.: W7L-P22070023RF02



Certificate # 3939.01

# VARIANT FCC TEST REPORT

## (PART 24)

Applicant:	NCXX Inc.
Address:	5-4-30, Minami-aoyama Minato-ku Tokyo, 1070062 Japan

Manufacturer or Supplier:	NCXX Inc.
Address:	5-4-30, Minami-aoyama Minato-ku Tokyo, 1070062 Japan
Product:	LTE USB Modem
Brand Name:	NCXX Inc.
Model Name:	UX302NC-R
FCC ID:	SLKUX302NC-R
Date of tests:	Jul. 18, 2022 ~ Jul. 28, 2022

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

FCC PART 24, Subpart E  FCC PART 2  
 ANSI/TIA/EIA-603-D  ANSI/TIA/EIA-603-E  ANSI C63.26-2015

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department

Date: Jul. 28, 2022

Date: Jul. 28, 2022

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
RF200914W002-2	Original release	Sep. 28, 2020
W7L-P22070023RF02	Based on the original product change software version, SIM booth and add the components of manufacturer, verify RSE (GPRS 1900) worst case, other test data is refer original test report.	Jul. 28, 2022



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## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Coducted Output Power	Compliance
§24.232(c)	Equivalent Isotropic Radiated Power	See Note
§2.1055 §24.235	Frequency Stability	See Note
§2.1049	Occupied Bandwidth	See Note
§24.232(d)	Peak to average ratio	See Note
§24.238(a)(b)	Band Edge Measurements	See Note
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	See Note
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance

Note: Test data re-use from certified Report FC6D1201, more details please refer test report FG6D1201 (FCC ID: SLKUX302NC-R).



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## 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	±76.97Hz
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

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



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## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.05,21	Sep.04,22
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 15,22	Feb. 14,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
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. 07,22	May. 06,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 07,22	May. 06,23
Temperature Chamber	ESPEC	SH-242	93000855	May. 12,22	May. 11,23
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 18,22	Feb. 17,23
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.12,22	May.11,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 25,21	Aug. 24,22

**NOTE:**

1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



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## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LTE USB Modem	
BRAND NAME	NCXX Inc.	
MODEL NAME	UX302NC-R	
NOMINAL VOLTAGE	DC 5.0V	
MODULATION TYPE	<b>GPRS: GMSK</b> <b>EDGE: 8PSK</b>	
FREQUENCY RANGE	<b>GPRS, EDGE</b>	1850.2MHz ~ 1909.8MHz
MAX. EIRP POWER	<b>GPRS</b>	674.53mW
	<b>EDGE</b>	260.62mW
EMISSION DESIGNATOR	<b>GPRS</b>	243KGXW
	<b>EDGE</b>	250KG7W
ANTENNA TYPE	Fixed Internal Antenna with 1.0dBi gain for GSM 1900	
HW VERSION	LWDM130A2-1	
SW VERSION	v1.0.0	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

#### NOTE:

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

MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	1TX/1RX

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

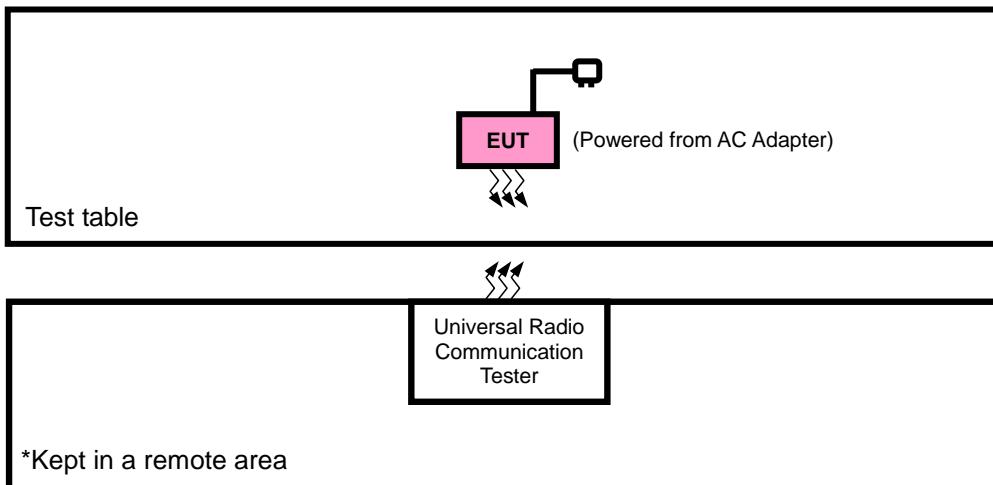


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## 2.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION TEST





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## 2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

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

## 2.4 TEST ITEM AND TEST CONFIGURATION

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

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

### GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
B	EIRP	512 to 810	512, 661, 810	GPRS, EDGE
A	RADIATED EMISSION	512 to 810	512, 661, 810	GPRS, EDGE



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**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	25deg. C, 57%RH	DC 5V	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	DC5V	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 24**

**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 and portable stations are limited to 2 watts 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  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = 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.



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### 3.1.3 TEST SETUP

**EIRP / ERP Measurement:**

**CONDUCTED POWER MEASUREMENT:**



### 3.1.4 TEST RESULTS

**CONDUCTED OUTPUT POWER (dBm)**

Band	GPRS1900			Max. Tune-up Power
Channel	512	661	810	
Frequency	1850.2	1880	1909.8	
<b>GPRS (GMSK, 1Tx-slot)</b>	27.04	27.57	27.59	28.00
<b>GPRS (GMSK, 2Tx-slot)</b>	24.81	25.36	25.38	26.00
<b>GPRS (GMSK, 3Tx-slot)</b>	22.79	22.96	23.23	24.00
<b>GPRS (GMSK, 4Tx-slot)</b>	20.84	20.70	21.04	22.00
<b>EDGE (8PSK, 1Tx-slot)</b>	23.34	23.66	23.51	24.00
<b>EDGE (8PSK, 2Tx-slot)</b>	22.66	22.73	22.77	23.00
<b>EDGE (8PSK, 3Tx-slot)</b>	20.39	20.65	20.73	21.00
<b>EDGE (8PSK, 4Tx-slot)</b>	18.35	18.51	18.61	19.00



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### EIRP POWER (dBm)

#### GSM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	27.04	1	28.04	636.8	2
661	1880.0	27.27	1	28.27	671.43	2
810	1909.8	27.29	1	28.29	<b>674.53</b>	2

#### EDGE

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	23.04	1	24.04	253.51	2
661	1880.0	23.16	1	24.16	<b>260.62</b>	2
810	1909.8	23.11	1	24.11	257.63	2



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### 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  $-13\text{dBm}$ .

#### 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.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$

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

#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

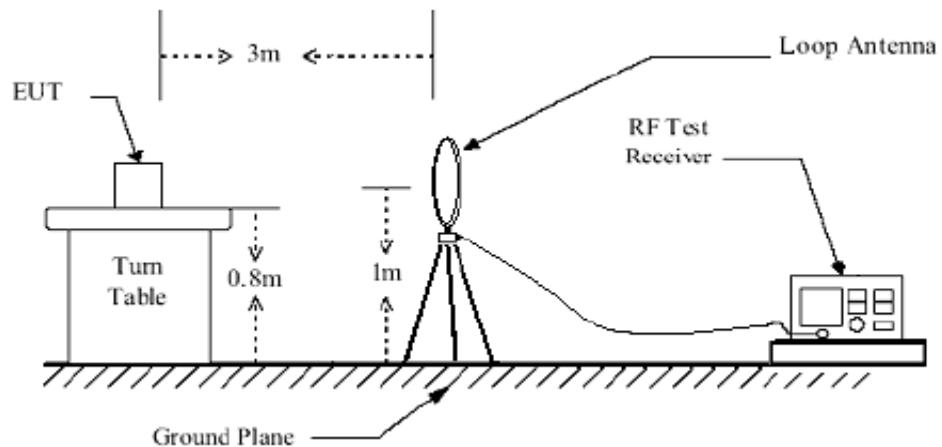


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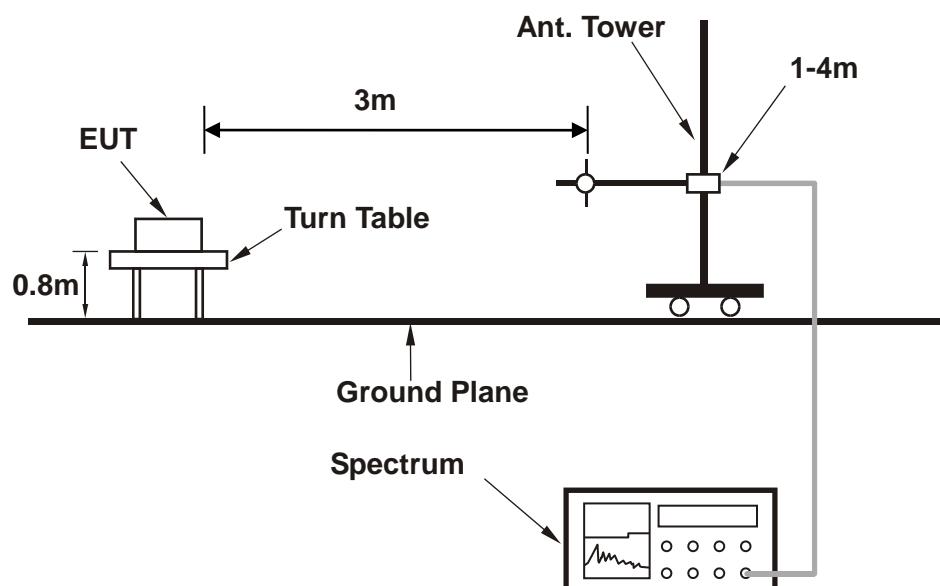
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### 3.2.4 TEST SETUP

#### < Frequency Range below 30MHz >



#### < Frequency Range 30MHz~1GHz >

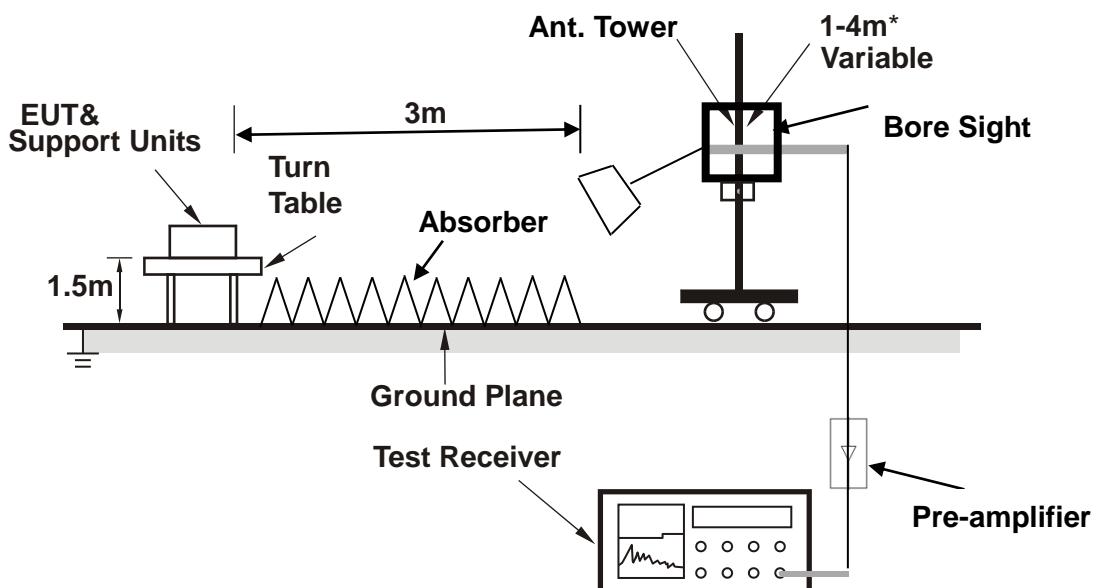




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<Frequency Range above 1GHz>



**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).



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### 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

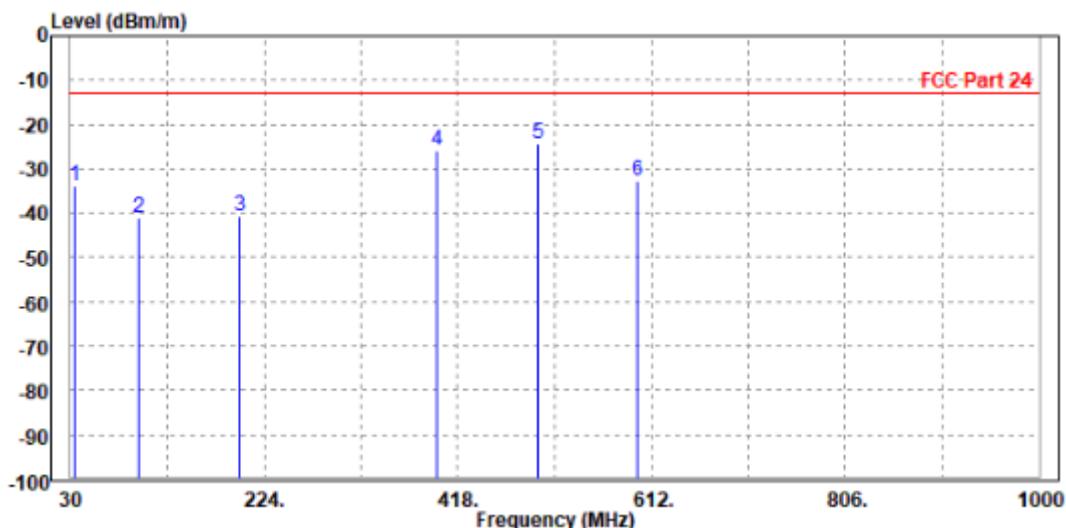
30 MHz – 1GHz data:

GPRS 1900:

CHANNEL BANDWIDTH: 512 ~ 810

MODE	TX channel 810	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						

Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	33.880	-34.01	-53.08	-13.00	-21.01	19.07 Peak Horizontal
2	98.870	-41.02	-51.34	-13.00	-28.02	10.32 Peak Horizontal
3	199.750	-40.85	-52.15	-13.00	-27.85	11.30 Peak Horizontal
4	397.630	-25.95	-42.10	-13.00	-12.95	16.15 Peak Horizontal
5 PP	498.510	-24.30	-42.37	-13.00	-11.30	18.07 Peak Horizontal
6	597.450	-32.84	-52.50	-13.00	-19.84	19.66 Peak Horizontal



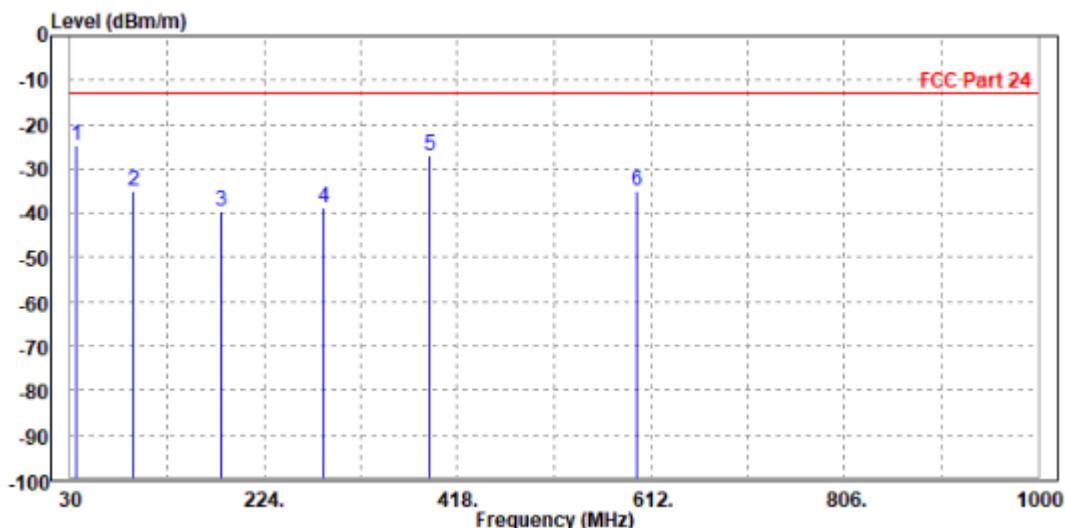


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MODE	TX channel 810	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq	PP	Read Level		Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m		
1	35.820	-24.77	-41.65	-13.00	-11.77	16.88 Peak	Vertical
2	94.020	-35.05	-43.85	-13.00	-22.05	8.80 Peak	Vertical
3	180.350	-39.68	-50.89	-13.00	-26.68	11.21 Peak	Vertical
4	283.170	-38.80	-52.33	-13.00	-25.80	13.53 Peak	Vertical
5	389.870	-27.08	-43.15	-13.00	-14.08	16.07 Peak	Vertical
6	597.450	-35.05	-54.60	-13.00	-22.05	19.55 Peak	Vertical





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## ABOVE 1GHz DATA

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

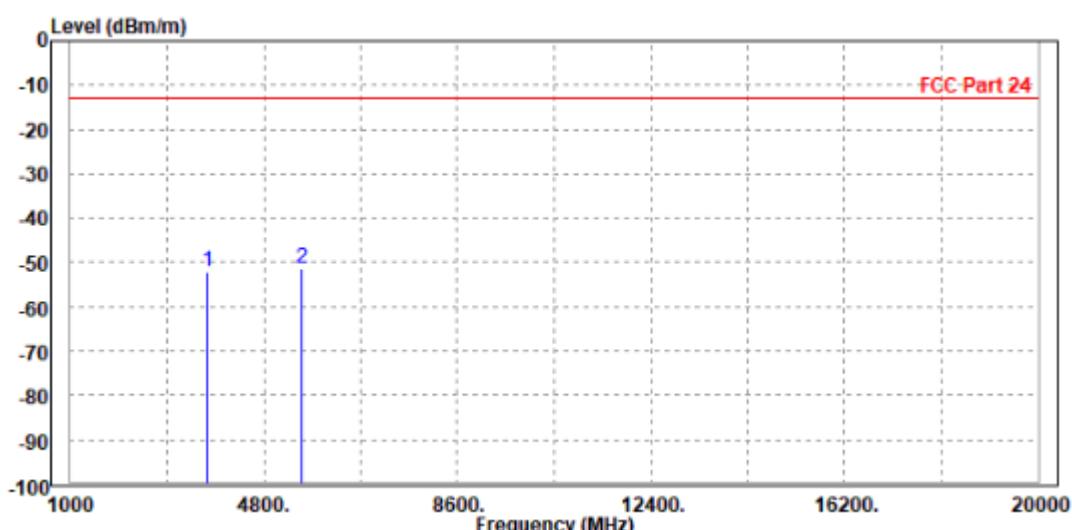
## WORST-CASE DATA

### GPRS 1900:

#### CH 512

MODE	TX channel 512	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								

Freq MHz	Level dBm/m	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		dBm	dBm/m	dB			
1 3698.000	-51.97	-59.80	-13.00	-38.97	7.83	Peak	Horizontal
2 PP 5550.600	-51.25	-61.82	-13.00	-38.25	10.57	Peak	Horizontal



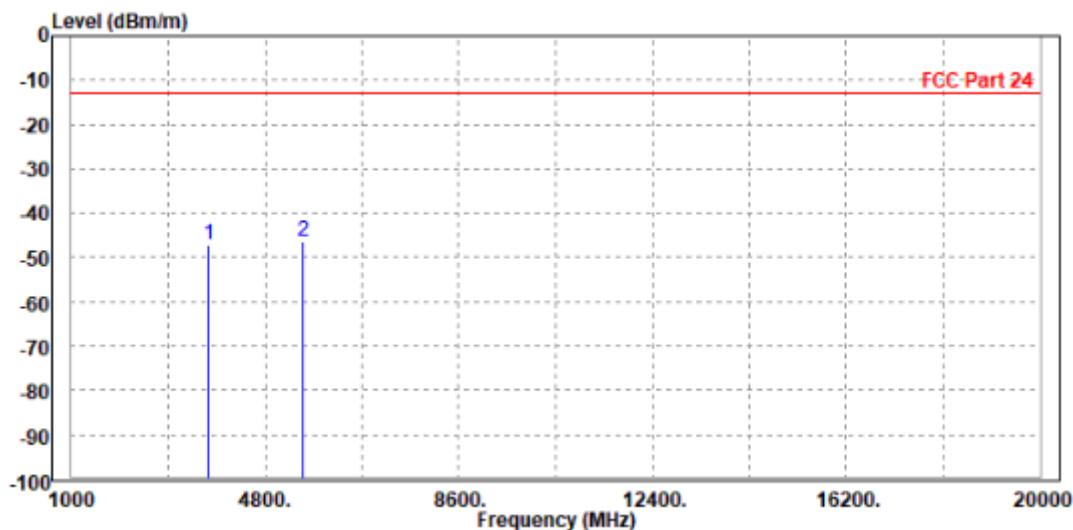


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MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Read Level	Limit Level	Over Line	Limit	Over Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3698.000	-47.19	-54.80	-13.00	-34.19	7.61	Peak	Vertical
2 PP	5550.600	-46.37	-57.24	-13.00	-33.37	10.87	Peak	Vertical





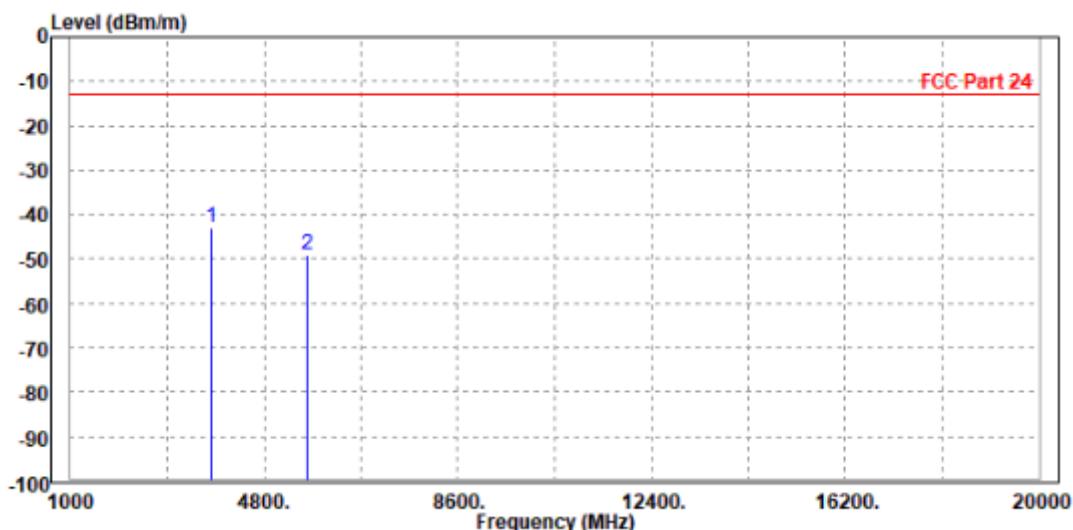
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CH 661

MODE	TX channel 661	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			

Freq MHz	Read Level dBm/m	Limit Line dBm/m	Over Limit dB	Factor	Remark	Pol/Phase
						dB dB/m
1 PP 3760.000	-43.05	-51.04	-13.00	-30.05	7.99 Peak	Horizontal
2 5636.000	-48.91	-59.64	-13.00	-35.91	10.73 Peak	Horizontal



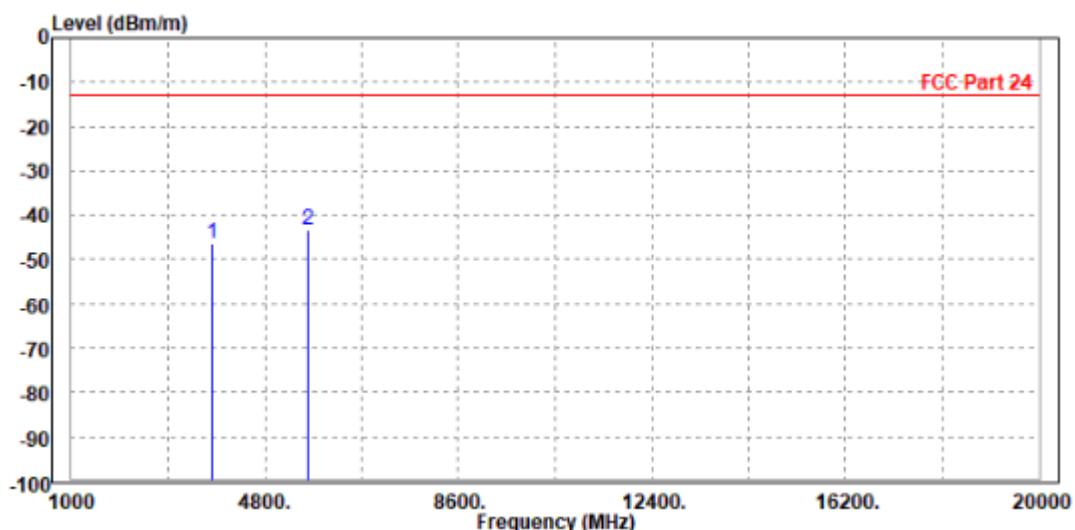


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MODE	TX channel 661	FREQUENCY RANGE		Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER		AC 120V/60HZ				
TESTED BY	Jace Hu							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3755.000	-46.38	-54.07	-13.00	-33.38	7.69 Peak Vertical
2	PP 5640.000	-43.16	-54.29	-13.00	-30.16	11.13 Peak Vertical





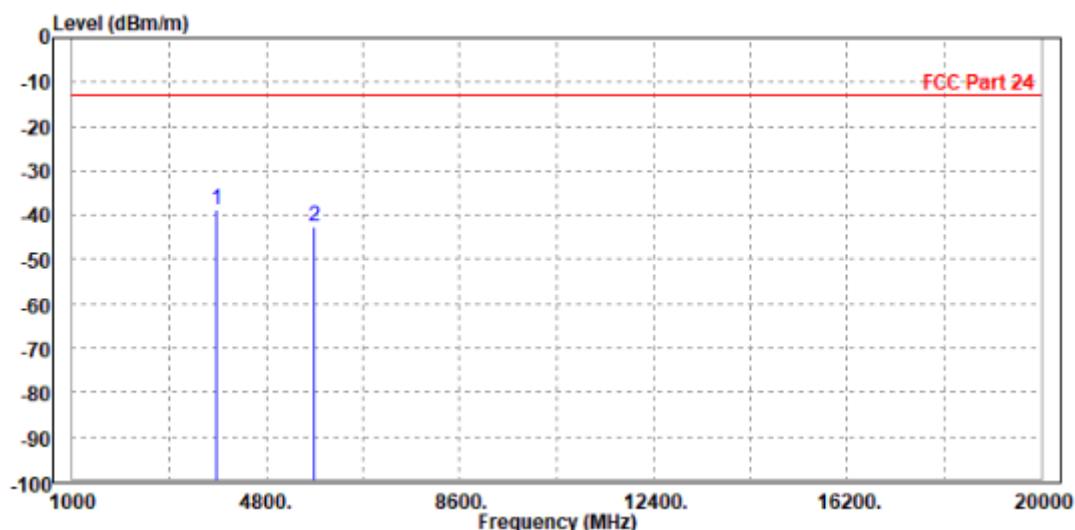
BUREAU  
VERITAS

Test Report No.: W7L-P22070023RF02

CH 810

MODE	TX channel 810	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			

Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	PP 3812.000	-38.72	-46.84	-13.00	-25.72	8.12 Peak Horizontal
2	5729.400	-42.59	-53.50	-13.00	-29.59	10.91 Peak Horizontal



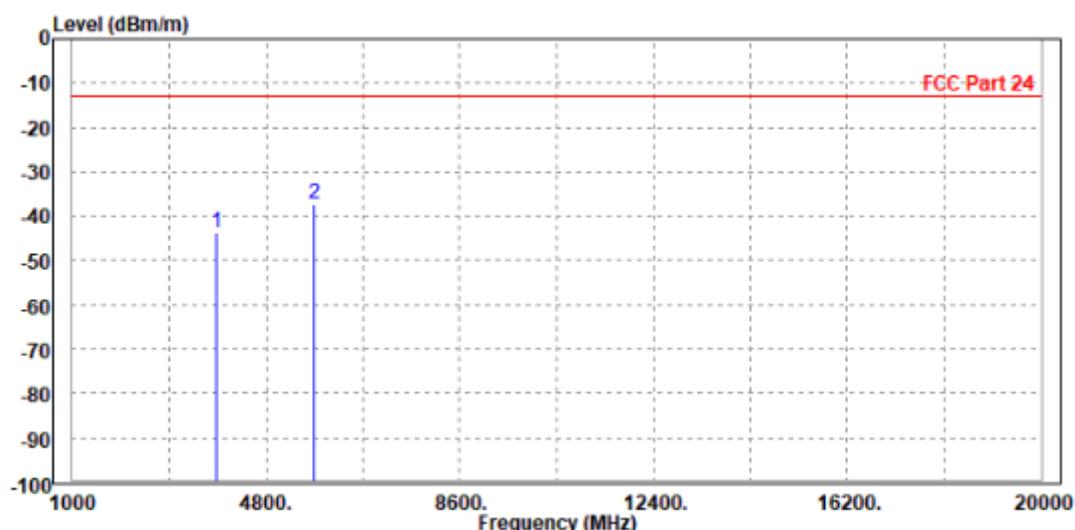


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VERITAS

Test Report No.: W7L-P22070023RF02

MODE	TX channel 810	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			

Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3819.600	-43.56	-51.34	-13.00	-30.56	7.78 Peak
2	PP 5731.000	-37.43	-48.82	-13.00	-24.43	11.39 Peak





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## 4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 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:

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**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.



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## 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.



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Test Report No.: W7L-P22070023RF02