



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Iconnect

Address: No.9, Aly. 58, Ln. 112, Ruiguang Rd., Neihu Dist., Taipei City, Taiwan

FCC ID: 2AB877292

Product Name: Wireless Device

Standard(s): 47 CFR Part 15, Subpart C(15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR230418409-00B

Date Of Issue: 2023/5/23

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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CONTENTS

TEST FACILITY	2
DECLARATIONS.....	2
DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 DESCRIPTION OF TEST CONFIGURATION.....	9
1.2.1 EUT Operation Condition:.....	9
1.2.2 Support Equipment List and Details	9
1.2.3 Support Cable List and Details	9
1.2.4 Block Diagram of Test Setup.....	10
1.3 MEASUREMENT UNCERTAINTY	11
2. SUMMARY OF TEST RESULTS	12
3. REQUIREMENTS AND TEST PROCEDURES	13
3.1 AC LINE CONDUCTED EMISSIONS.....	13
3.1.1 Applicable Standard.....	13
3.1.2 EUT Setup.....	14
3.1.3 EMI Test Receiver Setup	14
3.1.4 Test Procedure	15
3.1.5 Corrected Amplitude & Margin Calculation.....	15
3.2 RADIATION SPURIOUS EMISSIONS	16
3.2.1 Applicable Standard.....	16
3.2.2 EUT Setup.....	16
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	17
3.2.4 Test Procedure	17
3.2.5 Corrected Amplitude & Margin Calculation.....	17
3.3 6 dB EMISSION BANDWIDTH:	18
3.3.1 Applicable Standard.....	18
3.3.2 EUT Setup.....	18
3.3.3 Test Procedure	18
3.4 99% OCCUPIED BANDWIDTH:	19
3.4.1 EUT Setup.....	19
3.4.2 Test Procedure	19
3.5 MAXIMUM CONDUCTED OUTPUT POWER:	20
3.5.1 Applicable Standard.....	20
3.5.2 EUT Setup.....	20
3.5.3 Test Procedure	20
3.6 MAXIMUM POWER SPECTRAL DENSITY:	21
3.6.1 Applicable Standard.....	21
3.6.2 EUT Setup.....	21
3.6.3 Test Procedure	21
3.7 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE:	22

3.7.1 Applicable Standard.....	22
3.7.2 EUT Setup.....	22
3.7.3 Test Procedure	22
3.8 DUTY CYCLE:.....	23
3.8.1 EUT Setup.....	23
3.8.2 Test Procedure	23
3.9 ANTENNA REQUIREMENT.....	23
3.9.1 Applicable Standard.....	23
3.9.2 Judgment.....	23
4. TEST DATA AND RESULTS	24
4.1 AC LINE CONDUCTED EMISSIONS.....	24
4.2 RADIATION SPURIOUS EMISSIONS	31
4.3 6 dB EMISSION BANDWIDTH:.....	47
4.4 99% OCCUPIED BANDWIDTH:	51
4.5 MAXIMUM CONDUCTED OUTPUT POWER:	55
4.6 MAXIMUM POWER SPECTRAL DENSITY:	56
4.7 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE:	60
4.8 DUTY CYCLE:.....	64
5. RF EXPOSURE EVALUATION	66
5.1 APPLICABLE STANDARD.....	66
5.2 PROCEDURE.....	66
5.3 MEASUREMENT RESULT	66

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230418409-00B	Original Report	2023/5/23

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Wireless Device
EUT Model:	HaLow-U
Multiple Model:	HaLow-UXX,HaLow-XXXX,Tube-AH,Tube-AHXX, HaLow-OD,HaLow-ODXX,OD-AH,OD-AHXX, AHM27292U,AHM27292XX,AHPI7292S,AHPI7292SX, AHMC7292S,AHMC7292SXXXXXX,AHM26108D,AHM26108XX, AHPI6108D,AHPI6108XX,AHMC6108D,AHMC6108XXXXXX (X:stands for Any alphanumeric character or blank)
Operation Frequency:	1M:903.5-926.5 MHz 2M:905-925 MHz 4M:906-922 MHz
Maximum Peak Output Power (Conducted):	1M:17.49 dBm 2M:17.89 dBm 4M:17.69 dBm
Modulation Type:	OFDM
Rated Input Voltage:	DC 5V
Serial Number:	24GI_1
EUT Received Date:	2023/4/13
EUT Received Status:	Good
Note: The Multiple model is electrically identical with test model, please refer to the declaration letter for more detail, which was provided by manufacturer. Tests were only performed with the model: HaLow-U.	

Operation Frequency Detail: For 1M

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	903.5	13	915.5
2	904.5	14	916.5
...	...	...	...
...	...	...	...
...	...	23	925.5
11	913.5	24	926.5
12	914.5	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

Bandwidth(MHz)	Test Channel	Frequency (MHz)
1	Lowest	903.5
	Middle	914.5
	Highest	926.5

For 2M

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	905	8	919
2	907	9	921
3	909	10	923
4	911	11	925
5	913	/	/
6	915	/	/
7	917	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

Bandwidth(MHz)	Test Channel	Frequency (MHz)
2	Lowest	905
	Middle	915
	Highest	925

For 4M

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	906	/	/
2	910	/	/
3	914	/	/
4	918	/	/
5	922	/	/
/	/	/	/
/	/	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

Bandwidth(MHz)	Test Channel	Frequency (MHz)
4	Lowest	906
	Middle	914
	Highest	922

Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Dipole	50	902-928MHz	0dBi
The Method of §15.203 Compliance: ☐ Antenna must be permanently attached to the unit. ☐ Antenna must use a unique type of connector to attach to the EUT. ☒ Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

Accessory Information:

NO

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:	No		
EUT Exercise Software:	DUT2DUT_v2.5.2		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲：			
Test Modes	Power Level Setting		
	Lowest	Middle	Highest
DTS-1M	10	10	10
DTS-2M	10	10	10
DTS-4M	10	10	10

1.2.2 Support Equipment List and Details

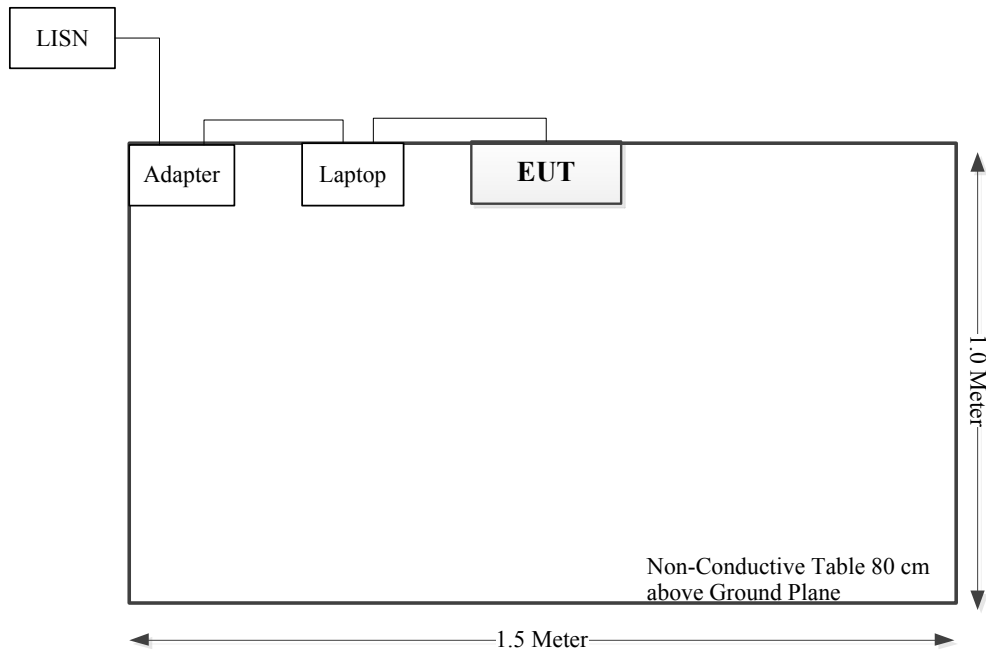
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T460S	60PDTEK8
Lenovo	Adapter	ADLX45DLC3A	00HM613

1.2.3 Support Cable List and Details

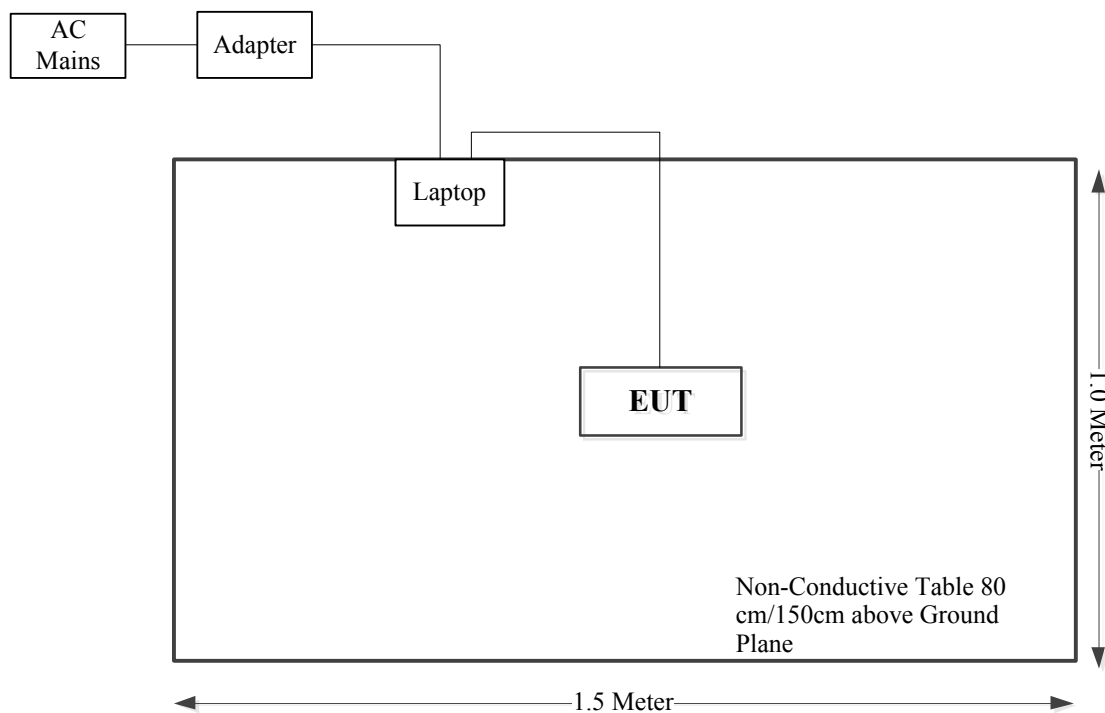
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	Yes	1.2	Adapter	Laptop
Power Cable	No	No	1	Adapter	LISN
USB Cable	No	No	1	Laptop	EUT

1.2.4 Block Diagram of Test Setup

Conducted emissions:



Spurious emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant
FCC§15.247 (i) & §1.1307 & §2.1091	RF Exposure Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

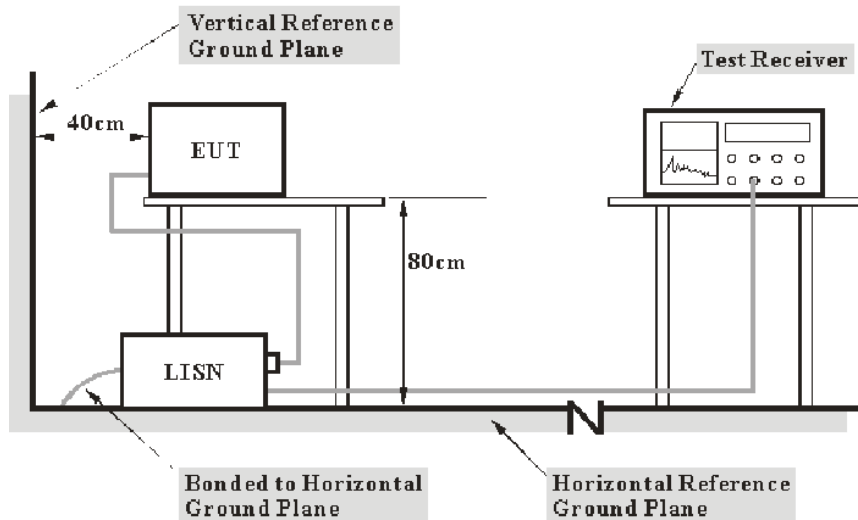
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

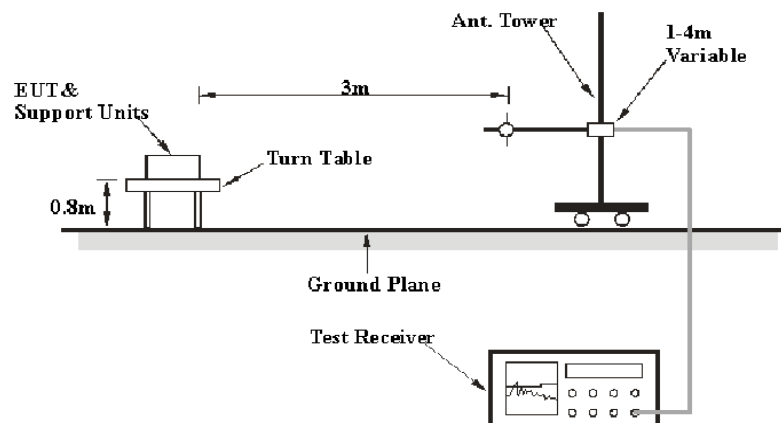
3.2.1 Applicable Standard

FCC §15.247 (d);

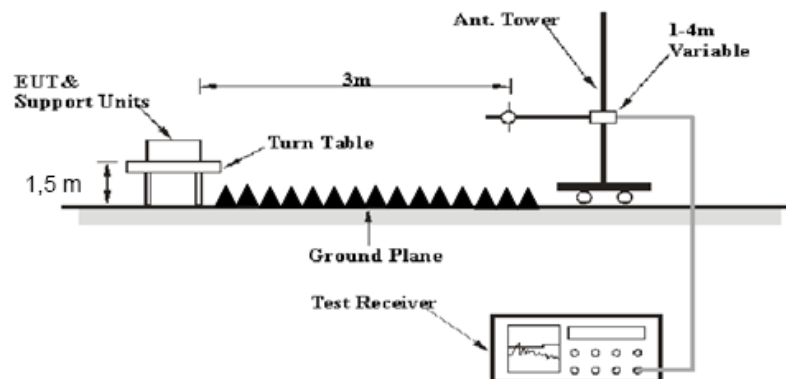
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.2.2 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 10 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 10GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

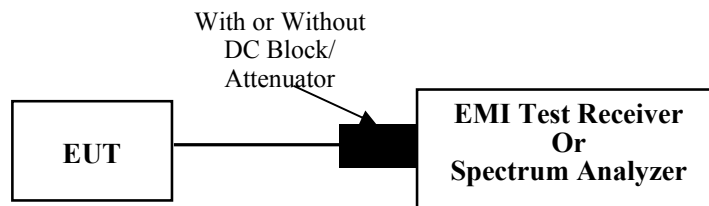
3.3 6 dB Emission Bandwidth:

3.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

3.3.2 EUT Setup



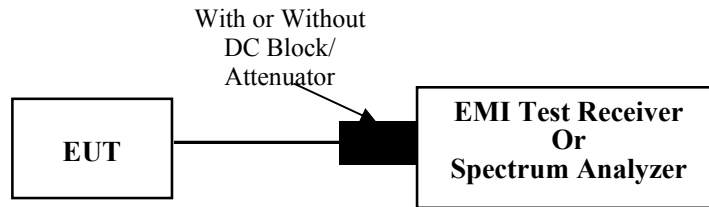
3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4 99% Occupied Bandwidth:

3.4.1 EUT Setup



3.4.2 Test Procedure

According to ANSI C63.10-2013 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

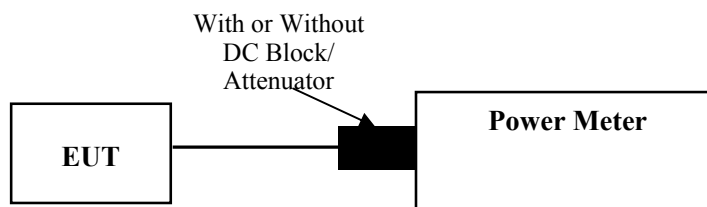
3.5 Maximum Conducted Output Power:

3.5.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.3

The maximum conducted output power may be measured using a broadband RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

- Set the EUT in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- Add a correction factor to the display.
- Set the power meter to test output power, record the result.

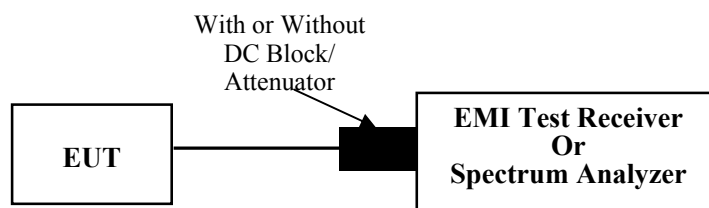
3.6 Maximum power spectral density:

3.6.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

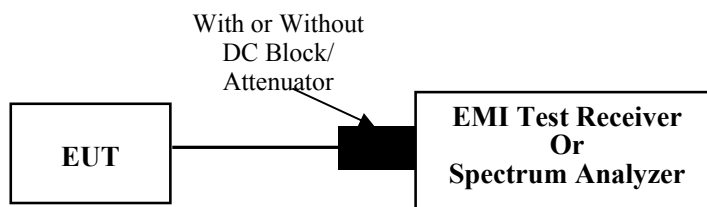
3.7 100 kHz Bandwidth of Frequency Band Edge:

3.7.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.7.2 EUT Setup



3.7.3 Test Procedure

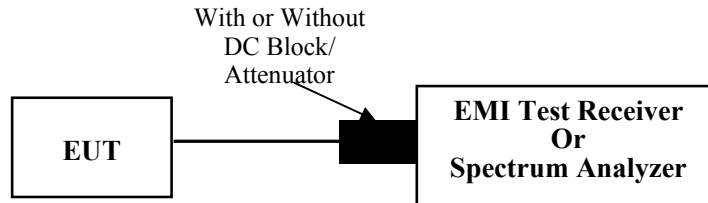
According to ANSI C63.10-2013 Section 11.11

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.8 Duty Cycle:

3.8.1 EUT Setup



3.8.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

3.9 Antenna Requirement

3.9.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	24GI_1	Test Date:	2023/4/20~2023/5/9
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4~24.6	Relative Humidity: (%)	52~72	ATM Pressure: (kPa)	100.1~100.6
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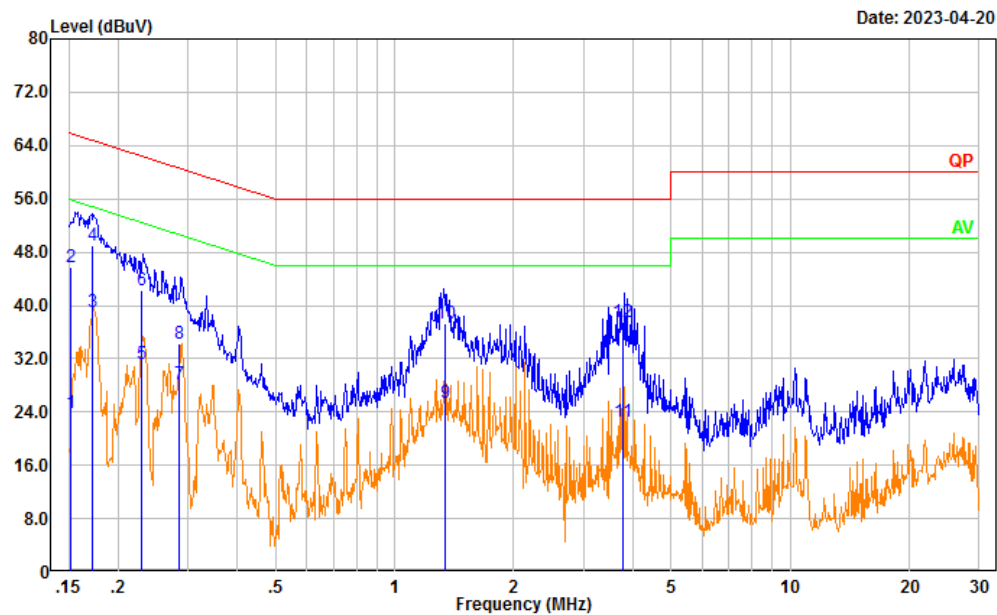
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/03/31	2024/03/30
R&S	EMI Test Receiver	ESR3	102726	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2022/08/07	2023/08/06
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

1M:

Test Mode: Transmitting(SRD 1M)
Port: Line
Note:

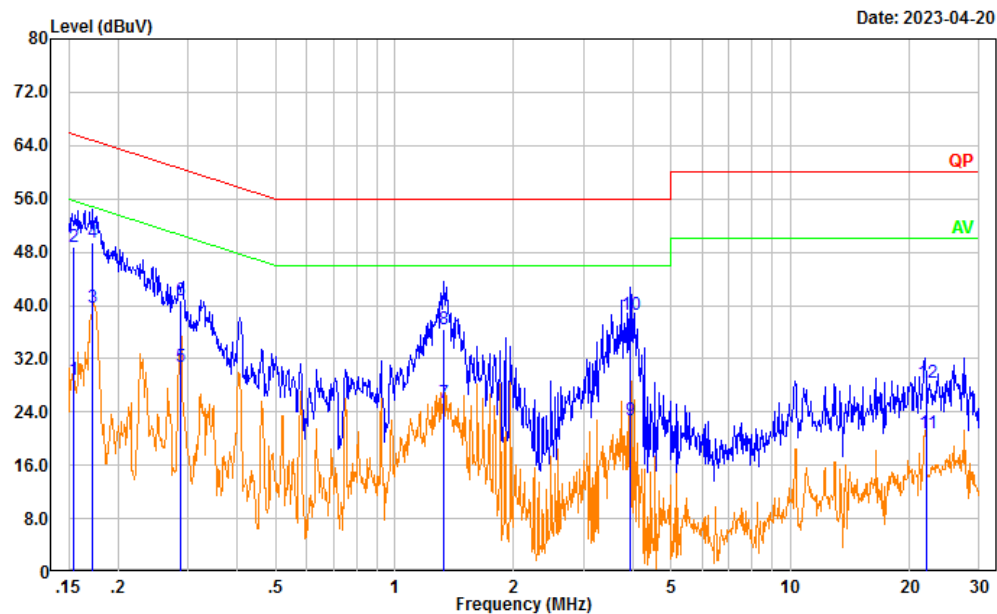


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.151	14.29	9.61	23.90	55.93	32.03	Average
2	0.151	36.17	9.61	45.78	65.93	20.15	QP
3	0.173	29.35	9.61	38.96	54.84	15.88	Average
4	0.173	39.30	9.61	48.91	64.84	15.93	QP
5	0.229	21.51	9.61	31.12	52.48	21.36	Average
6	0.229	32.62	9.61	42.23	62.48	20.25	QP
7	0.285	18.62	9.61	28.23	50.67	22.44	Average
8	0.285	24.65	9.61	34.26	60.67	26.41	QP
9	1.338	15.71	9.62	25.33	46.00	20.67	Average
10	1.338	27.57	9.62	37.19	56.00	18.81	QP
11	3.761	12.81	9.65	22.46	46.00	23.54	Average
12	3.761	27.89	9.65	37.54	56.00	18.46	QP

Test Mode: Transmitting(SRD 1M)

Port: neutral

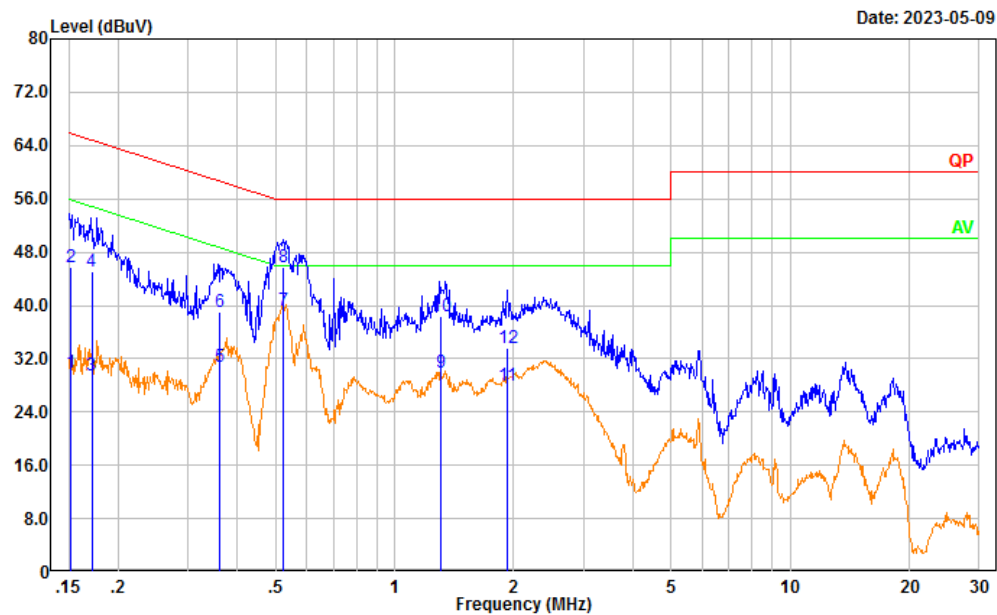
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.155	19.25	9.61	28.86	55.75	26.89	Average
2	0.155	39.07	9.61	48.68	65.75	17.07	QP
3	0.172	30.01	9.61	39.62	54.88	15.26	Average
4	0.172	39.81	9.61	49.42	64.88	15.46	QP
5	0.289	21.22	9.61	30.83	50.56	19.73	Average
6	0.289	31.22	9.61	40.83	60.56	19.73	QP
7	1.326	15.81	9.62	25.43	46.00	20.57	Average
8	1.326	26.78	9.62	36.40	56.00	19.60	QP
9	3.933	13.08	9.65	22.73	46.00	23.27	Average
10	3.933	28.97	9.65	38.62	56.00	17.38	QP
11	22.158	11.00	9.73	20.73	50.00	29.27	Average
12	22.158	18.65	9.73	28.38	60.00	31.62	QP

2M:

Test Mode: Transmitting(SRD 2M)
 Port: Line
 Note:

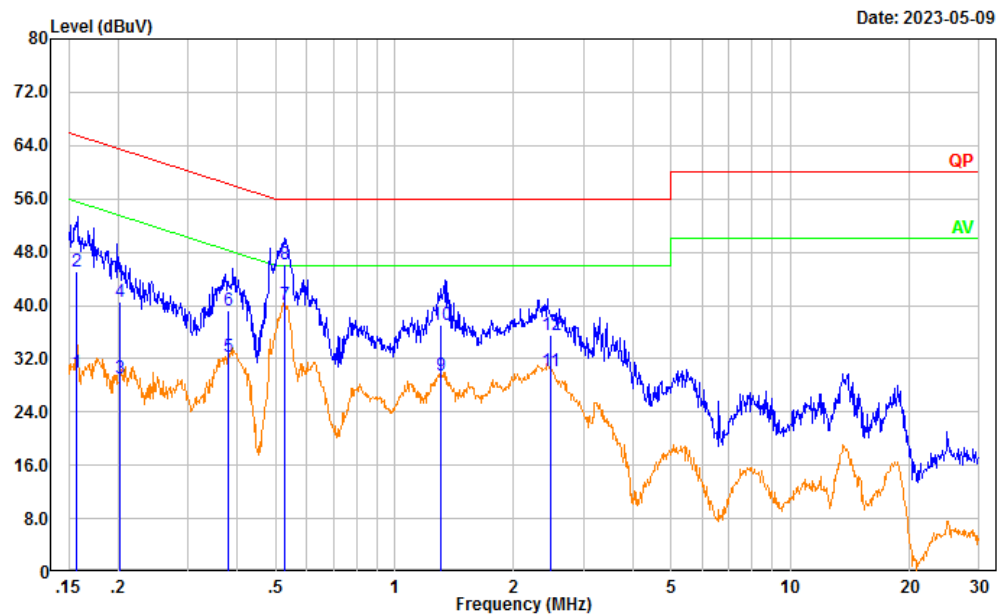


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.152	20.42	9.61	30.03	55.92	25.89	Average
2	0.152	36.13	9.61	45.74	65.92	20.18	QP
3	0.172	19.97	9.61	29.58	54.89	25.31	Average
4	0.172	35.52	9.61	45.13	64.89	19.76	QP
5	0.361	21.09	9.61	30.70	48.72	18.02	Average
6	0.361	29.33	9.61	38.94	58.72	19.78	QP
7	0.521	29.71	9.61	39.32	46.00	6.68	Average
8	0.521	36.23	9.61	45.84	56.00	10.16	QP
9	1.311	20.20	9.62	29.82	46.00	16.18	Average
10	1.311	28.84	9.62	38.46	56.00	17.54	QP
11	1.924	18.32	9.63	27.95	46.00	18.05	Average
12	1.924	24.01	9.63	33.64	56.00	22.36	QP

Test Mode: Transmitting(SRD 2M)

Port: neutral

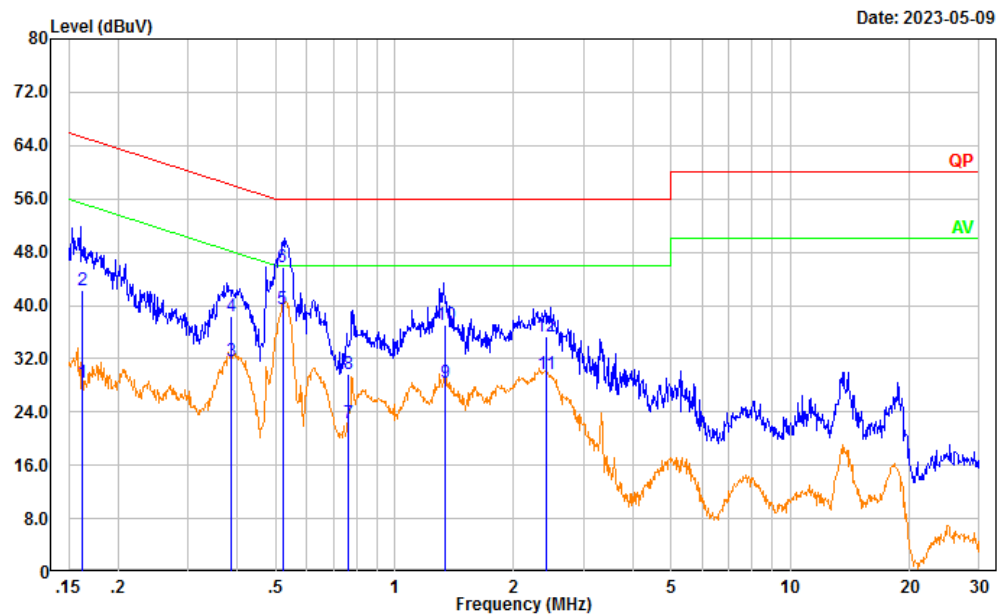
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.157	20.24	9.61	29.85	55.62	25.77	Average
2	0.157	35.45	9.61	45.06	65.62	20.56	QP
3	0.202	19.35	9.61	28.96	53.55	24.59	Average
4	0.202	30.96	9.61	40.57	63.55	22.98	QP
5	0.380	22.79	9.61	32.40	48.27	15.87	Average
6	0.380	29.62	9.61	39.23	58.27	19.04	QP
7	0.527	30.56	9.61	40.17	46.00	5.83	Average
8	0.527	36.58	9.61	46.19	56.00	9.81	QP
9	1.313	19.81	9.62	29.43	46.00	16.57	Average
10	1.313	27.48	9.62	37.10	56.00	18.90	QP
11	2.479	20.53	9.64	30.17	46.00	15.83	Average
12	2.479	25.87	9.64	35.51	56.00	20.49	QP

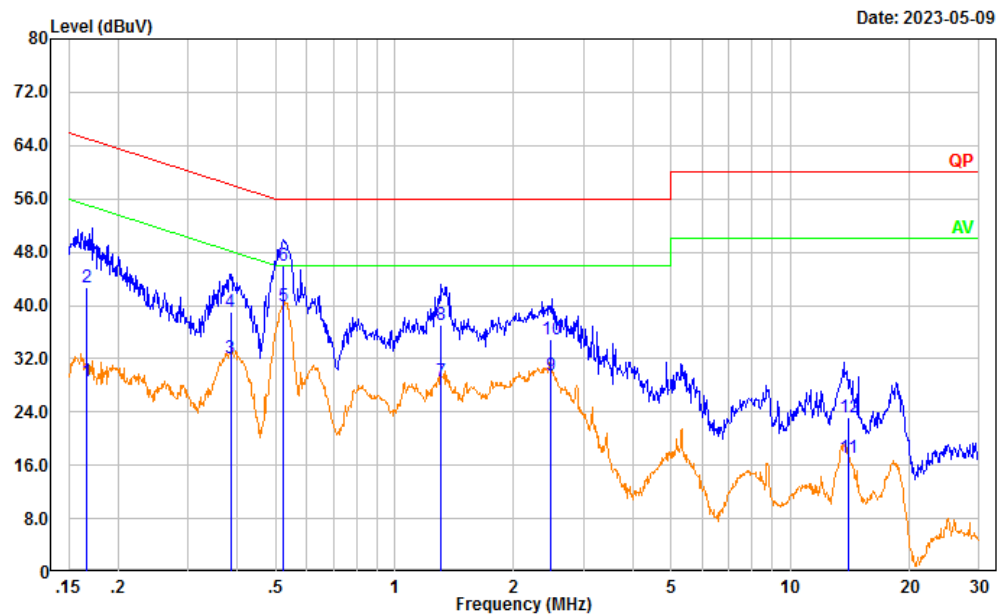
4M:

Test Mode: Transmitting(SRD 4M)
 Port: Line
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.162	18.70	9.61	28.31	55.34	27.03	Average
2	0.162	32.66	9.61	42.27	65.34	23.07	QP
3	0.388	22.13	9.61	31.74	48.12	16.38	Average
4	0.388	28.84	9.61	38.45	58.12	19.67	QP
5	0.521	29.92	9.61	39.53	46.00	6.47	Average
6	0.521	36.03	9.61	45.64	56.00	10.36	QP
7	0.765	12.75	9.62	22.37	46.00	23.63	Average
8	0.765	20.14	9.62	29.76	56.00	26.24	QP
9	1.338	18.70	9.62	28.32	46.00	17.68	Average
10	1.338	27.39	9.62	37.01	56.00	18.99	QP
11	2.407	20.07	9.64	29.71	46.00	16.29	Average
12	2.407	25.65	9.64	35.29	56.00	20.71	QP

Test Mode: Transmitting(SRD 4M)
Port: neutral
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.167	19.01	9.61	28.62	55.13	26.51	Average
2	0.167	33.20	9.61	42.81	65.13	22.32	QP
3	0.385	22.52	9.61	32.13	48.18	16.05	Average
4	0.385	29.39	9.61	39.00	58.18	19.18	QP
5	0.522	30.27	9.61	39.88	46.00	6.12	Average
6	0.522	36.31	9.61	45.92	56.00	10.08	QP
7	1.313	19.06	9.62	28.68	46.00	17.32	Average
8	1.313	27.40	9.62	37.02	56.00	18.98	QP
9	2.480	19.90	9.64	29.54	46.00	16.46	Average
10	2.480	25.24	9.64	34.88	56.00	21.12	QP
11	14.004	7.46	9.68	17.14	50.00	32.86	Average
12	14.004	13.47	9.68	23.15	60.00	36.85	QP

4.2 Radiation Spurious Emissions

Serial Number:	24GI_1	Test Date:	2023/5/22
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	coco Tian,Vic Du	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.6~27.2	Relative Humidity: (%)	59~64	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Audix	Test Software	E3	201021 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08

*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

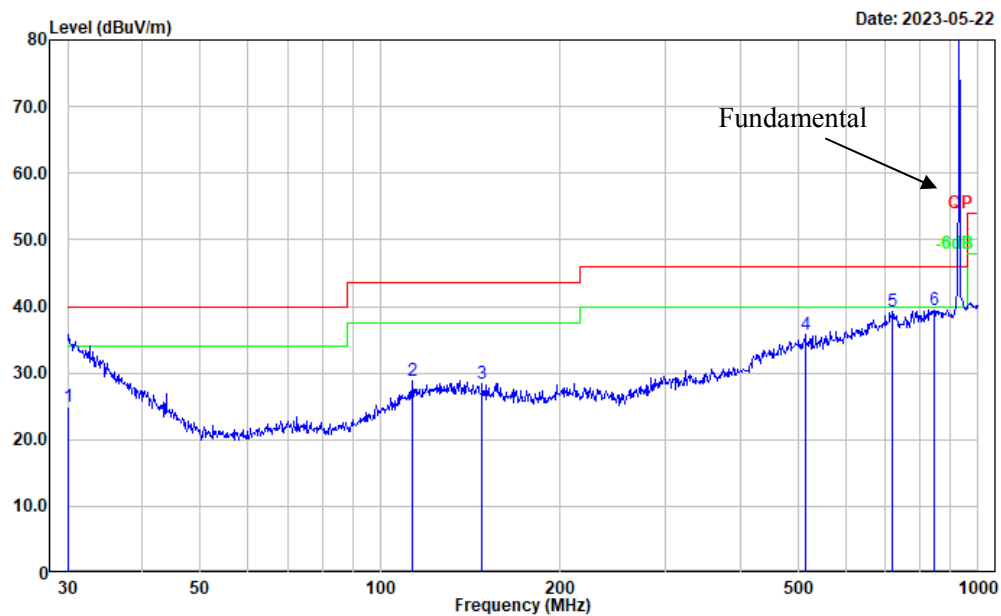
Test Data:

Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.10 figure 8, the worst orientation was photographed and it's data was recorded.

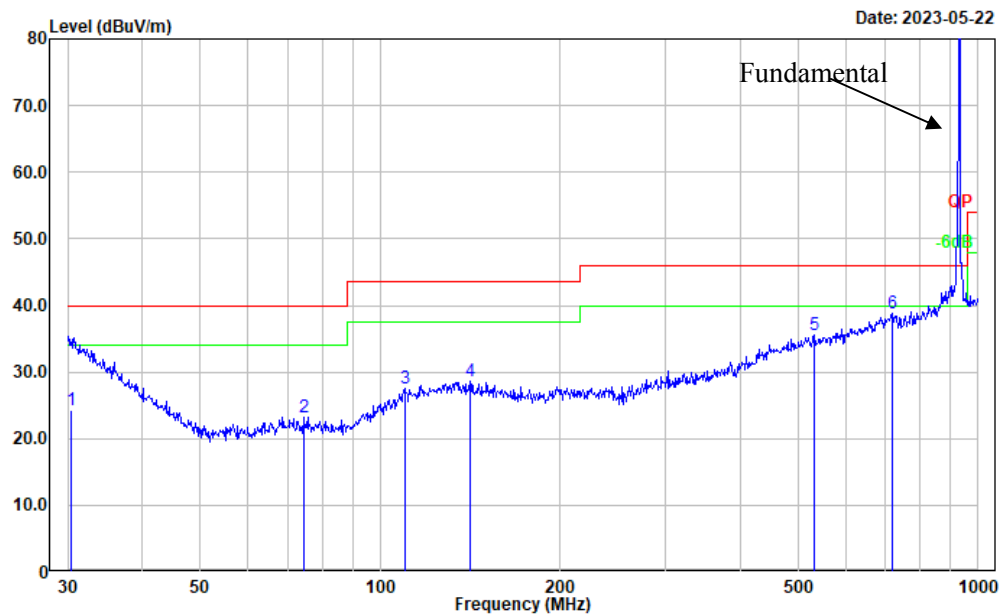
1) 30MHz-1GHz:
1M:

Test Mode: Transmitting
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.082	-2.96	27.82	24.86	40.00	15.14	QP
2	113.316	9.50	19.40	28.90	43.50	14.60	Peak
3	147.921	9.04	19.46	28.50	43.50	15.00	Peak
4	513.633	10.41	25.36	35.77	46.00	10.23	Peak
5	719.200	11.13	28.00	39.13	46.00	6.87	Peak
6	845.088	10.12	29.43	39.55	46.00	6.45	Peak

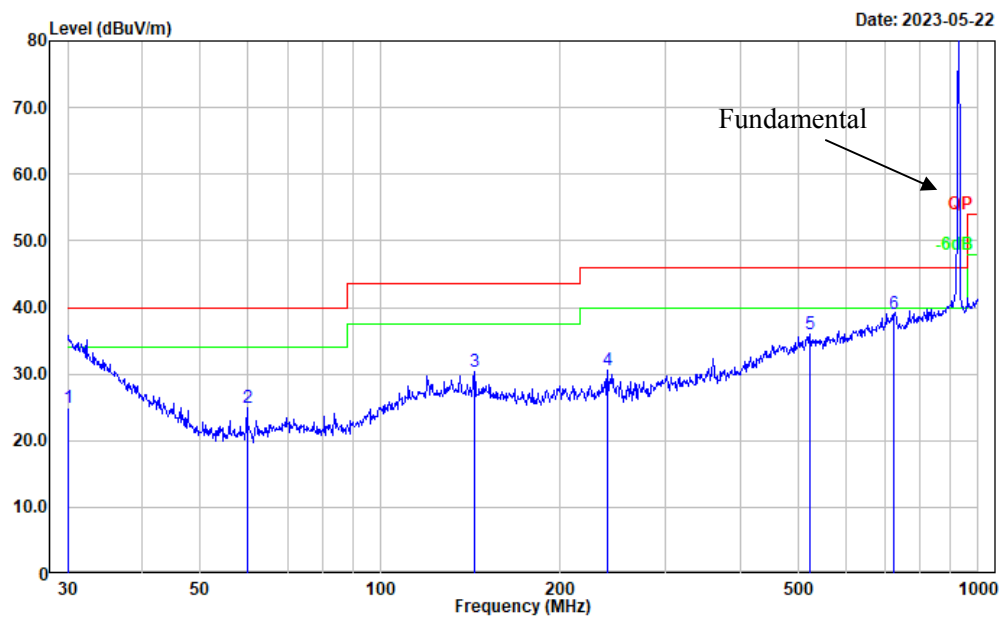
Test Mode: Transmitting
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.489	-3.25	27.50	24.25	40.00	15.75	QP
2	74.396	8.68	14.55	23.23	40.00	16.77	Peak
3	109.796	8.47	19.09	27.56	43.50	15.94	Peak
4	141.330	8.95	19.57	28.52	43.50	14.98	Peak
5	531.964	10.12	25.40	35.52	46.00	10.48	Peak
6	716.682	10.81	28.00	38.81	46.00	7.19	Peak

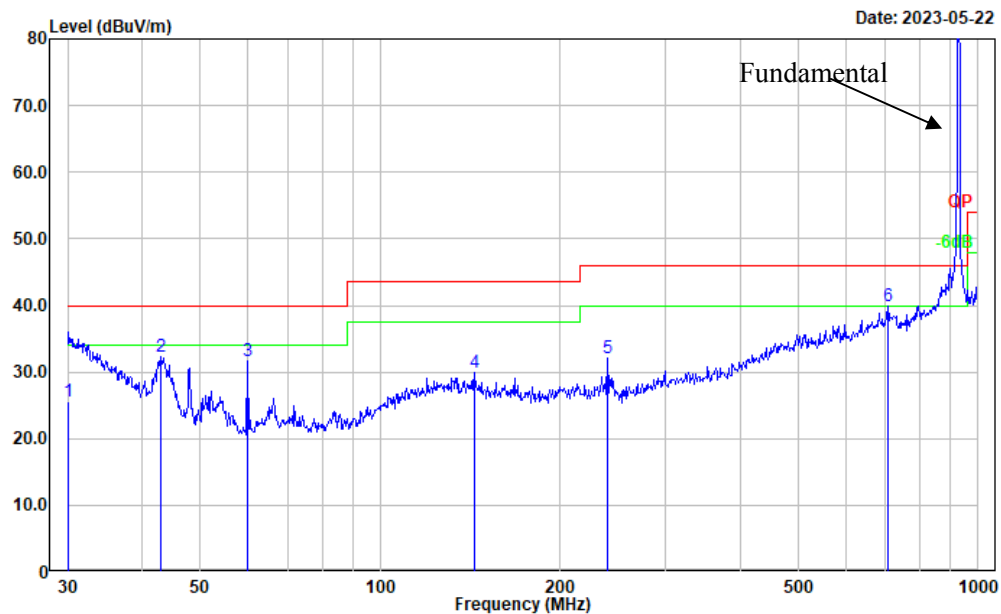
2M:

Test Mode: Transmitting
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	-2.93	27.80	24.87	40.00	15.13	QP
2	59.859	10.82	14.07	24.89	40.00	15.11	Peak
3	143.830	10.73	19.53	30.26	43.50	13.24	Peak
4	239.987	12.19	18.38	30.57	46.00	15.43	Peak
5	522.718	10.51	25.39	35.90	46.00	10.10	Peak
6	724.261	10.91	28.10	39.01	46.00	6.99	Peak

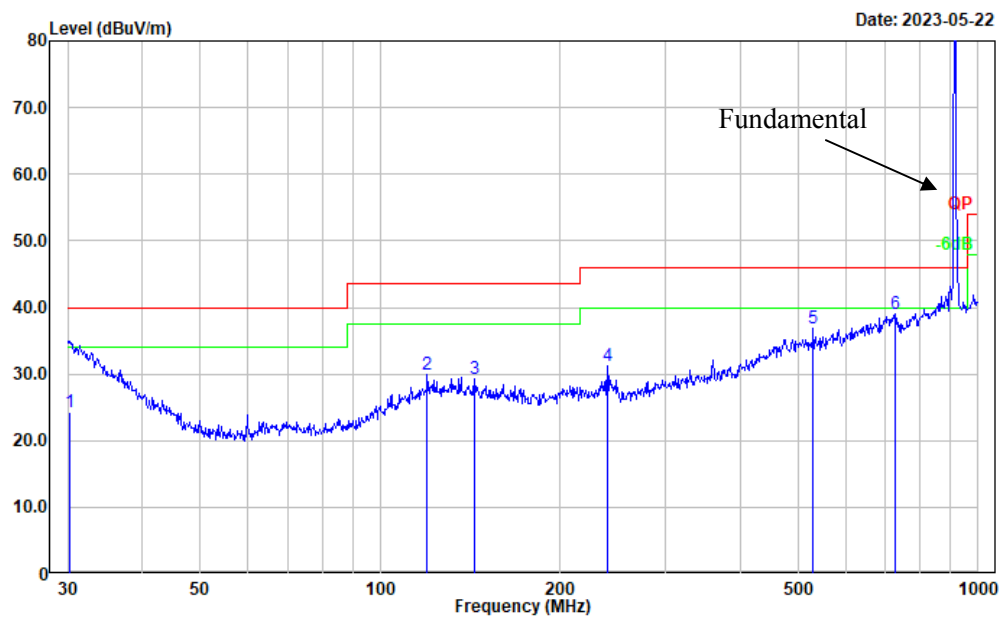
Test Mode: Transmitting
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	-2.20	27.88	25.68	40.00	14.32	QP
2	42.900	13.73	18.49	32.22	40.00	7.78	Peak
3	59.859	17.56	14.07	31.63	40.00	8.37	Peak
4	143.830	10.39	19.53	29.92	43.50	13.58	Peak
5	239.987	13.67	18.38	32.05	46.00	13.95	Peak
6	706.700	12.04	27.90	39.94	46.00	6.06	Peak

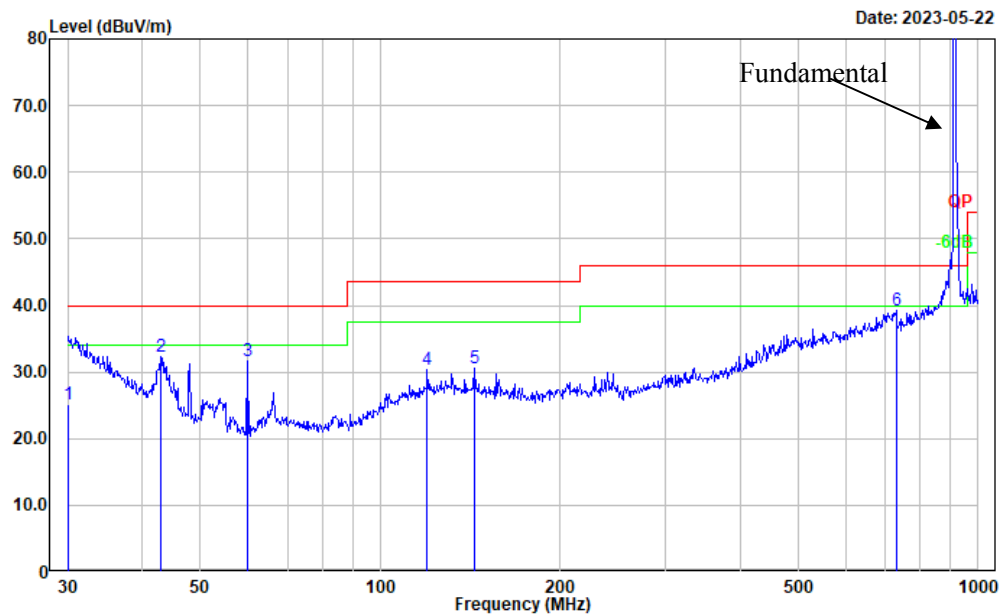
4M:

Test Mode: Transmitting
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	-3.27	27.63	24.36	40.00	15.64	QP
2	119.856	9.89	19.98	29.87	43.50	13.63	Peak
3	143.830	9.66	19.53	29.19	43.50	14.31	Peak
4	239.987	12.92	18.38	31.30	46.00	14.70	Peak
5	530.101	11.34	25.42	36.76	46.00	9.24	Peak
6	726.805	10.97	28.13	39.10	46.00	6.90	Peak

Test Mode: Transmitting
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.105	-2.59	27.80	25.21	40.00	14.79	QP
2	43.050	13.98	18.40	32.38	40.00	7.62	Peak
3	59.859	17.65	14.07	31.72	40.00	8.28	Peak
4	119.856	10.27	19.98	30.25	43.50	13.25	Peak
5	143.830	11.06	19.53	30.59	43.50	12.91	Peak
6	729.358	11.01	28.14	39.15	46.00	6.85	Peak

2) Band edge and 1-10GHz:

1M:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 903.5 MHz							
903.50	69.52	QP	H	29.47	98.99	N/A	N/A
903.50	74.78	QP	V	29.47	104.25	N/A	N/A
902.00	31.22	QP	V	29.46	60.68	84.25	23.57
1807.000	38.07	PK	H	1.32	39.39	74.00	34.61
1807.000	25.16	AV	H	1.32	26.48	54.00	27.52
1807.000	43.53	PK	V	1.32	44.85	74.00	29.15
1807.000	30.15	AV	V	1.32	31.47	54.00	22.53
2710.500	40.05	PK	H	4.76	44.81	74.00	29.19
2710.500	27.46	AV	H	4.76	32.22	54.00	21.78
2710.500	44.56	PK	V	4.76	49.32	74.00	24.68
2710.500	31.24	AV	V	4.76	36.00	54.00	18.00
3614.000	33.05	PK	H	8.00	41.05	74.00	32.96
3614.000	20.12	AV	H	8.00	28.12	54.00	25.88
3614.000	34.23	PK	V	8.00	42.23	74.00	31.77
3614.000	21.34	AV	V	8.00	29.34	54.00	24.66
Middle Channel: 914.5 MHz							
914.50	67.92	QP	H	29.62	97.54	N/A	N/A
914.50	74.48	QP	V	29.62	104.10	N/A	N/A
1829.000	39.15	PK	H	1.43	40.58	74.00	33.42
1829.000	26.57	AV	H	1.43	28.00	54.00	26.00
1829.000	42.78	PK	V	1.43	44.21	74.00	29.79
1829.000	29.64	AV	V	1.43	31.07	54.00	22.93
2743.500	40.35	PK	H	4.90	45.25	74.00	28.75
2743.500	27.69	AV	H	4.90	32.59	54.00	21.41
2743.500	43.88	PK	V	4.90	48.78	74.00	25.22
2743.500	30.03	AV	V	4.90	34.93	54.00	19.07
3658.000	32.46	PK	H	8.11	40.57	74.00	33.43
3658.000	19.35	AV	H	8.11	27.46	54.00	26.54
3658.000	34.75	PK	V	8.11	42.86	74.00	31.14
3658.000	21.51	AV	V	8.11	29.62	54.00	24.38
High Channel: 926.5 MHz							
926.50	69.04	QP	H	29.68	98.72	N/A	N/A
926.50	76.28	QP	V	29.68	105.96	N/A	N/A
928.00	33.12	QP	V	29.70	62.82	85.96	23.14
1853.000	40.12	PK	H	1.55	41.67	74.00	32.33
1853.000	26.97	AV	H	1.55	28.52	54.00	25.48
1853.000	44.06	PK	V	1.55	45.61	74.00	28.39
1853.000	31.42	AV	V	1.55	32.97	54.00	21.03
2779.500	39.88	PK	H	5.03	44.91	74.00	29.09
2779.500	26.79	AV	H	5.03	31.82	54.00	22.18
2779.500	44.91	PK	V	5.03	49.94	74.00	24.06
2779.500	31.84	AV	V	5.03	36.87	54.00	17.13
3706.000	33.39	PK	H	8.37	41.76	74.00	32.24
3706.000	20.33	AV	H	8.37	28.70	54.00	25.30
3706.000	34.86	PK	V	8.37	43.23	74.00	30.77
3706.000	21.62	AV	V	8.37	29.99	54.00	24.01

2M:

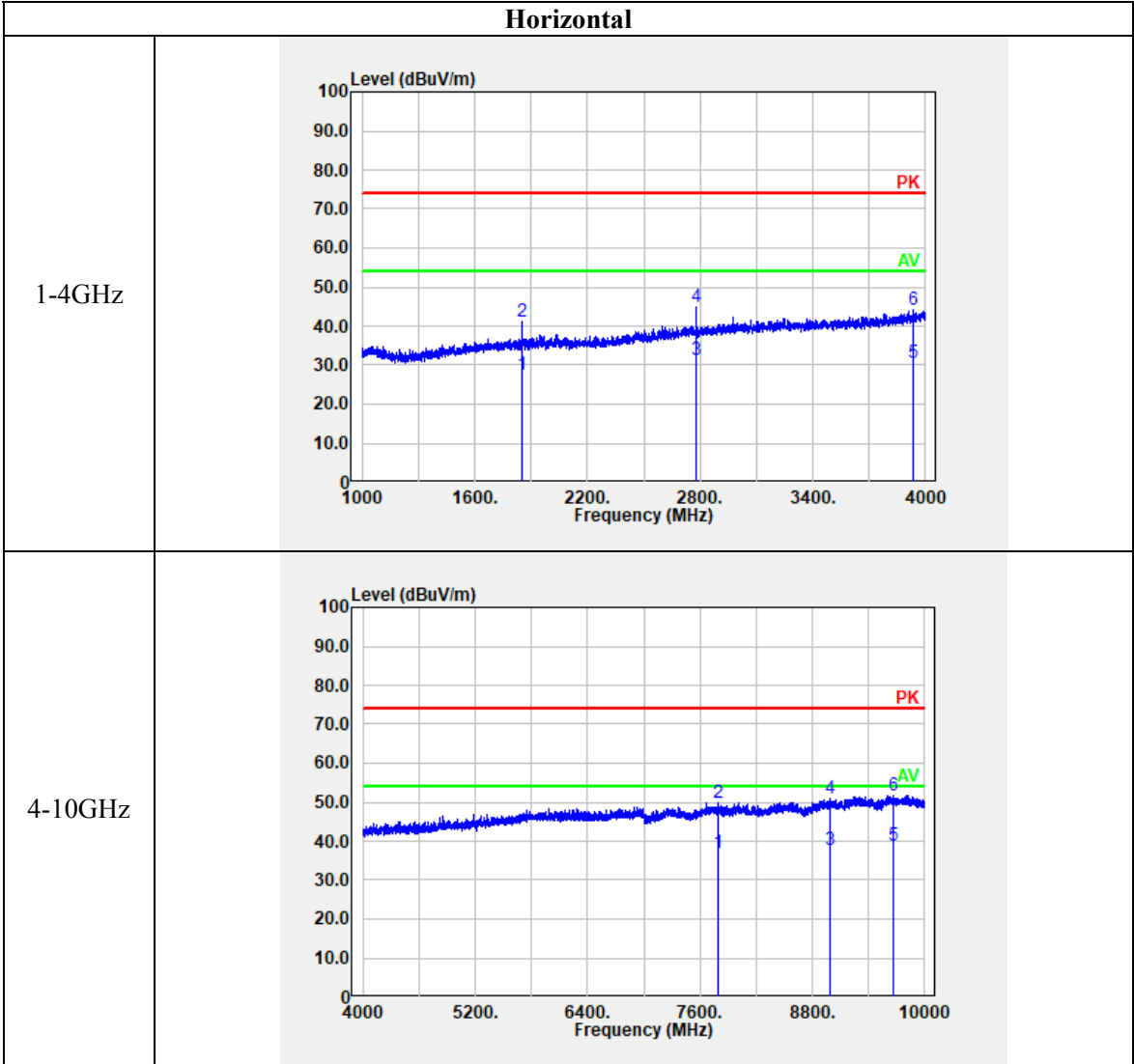
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 905 MHz							
905.00	69.92	QP	H	29.48	99.40	N/A	N/A
905.00	75.82	QP	V	29.48	105.30	N/A	N/A
902.00	27.51	QP	V	29.46	56.97	85.30	28.33
1810.000	38.42	PK	H	1.34	39.76	74.00	34.24
1810.000	25.16	AV	H	1.34	26.50	54.00	27.50
1810.000	42.11	PK	V	1.34	43.45	74.00	30.55
1810.000	29.01	AV	V	1.34	30.35	54.00	23.65
2715.000	34.88	PK	H	4.78	39.66	74.00	34.34
2715.000	21.65	AV	H	4.78	26.43	54.00	27.57
2715.000	43.33	PK	V	4.78	48.11	74.00	25.89
2715.000	30.15	AV	V	4.78	34.93	54.00	19.07
3620.000	35.06	PK	H	8.01	43.07	74.00	30.93
3620.000	21.89	AV	H	8.01	29.90	54.00	24.10
3620.000	34.80	PK	V	8.01	42.81	74.00	31.19
3620.000	21.78	AV	V	8.01	29.79	54.00	24.21
Middle Channel: 915 MHz							
915.00	69.17	QP	H	29.62	98.79	N/A	N/A
915.00	76.01	QP	V	29.62	105.63	N/A	N/A
1830.000	37.86	PK	H	1.43	39.29	74.00	34.71
1830.000	24.45	AV	H	1.43	25.88	54.00	28.12
1830.000	38.97	PK	V	1.43	40.40	74.00	33.60
1830.000	25.76	AV	V	1.43	27.19	54.00	26.81
2745.000	37.69	PK	H	4.91	42.60	74.00	31.40
2745.000	24.53	AV	H	4.91	29.44	54.00	24.56
2745.000	38.12	PK	V	4.91	43.03	74.00	30.97
2745.000	25.34	AV	V	4.91	30.25	54.00	23.75
3660.000	34.26	PK	H	8.12	42.38	74.00	31.62
3660.000	21.17	AV	H	8.12	29.29	54.00	24.71
High Channel: 925 MHz							
925.00	69.73	QP	H	29.66	99.39	N/A	N/A
925.00	76.54	QP	V	29.66	106.20	N/A	N/A
928.00	30.98	QP	V	29.70	60.68	86.20	25.52
1850.000	37.25	PK	H	1.53	38.78	74.00	35.22
1850.000	24.13	AV	H	1.53	25.66	54.00	28.34
1850.000	39.57	PK	V	1.53	41.10	74.00	32.90
1850.000	26.34	AV	V	1.53	27.87	54.00	26.13
2775.000	37.48	PK	H	5.02	42.50	74.00	31.50
2775.000	24.53	AV	H	5.02	29.55	54.00	24.45
2775.000	38.62	PK	V	5.02	43.64	74.00	30.36
2775.000	25.19	AV	V	5.02	30.21	54.00	23.79
3700.000	34.56	PK	H	8.36	42.92	74.00	31.08
3700.000	21.25	AV	H	8.36	29.61	54.00	24.39
3700.000	33.45	PK	V	8.36	41.81	74.00	32.19
3700.000	20.13	AV	V	8.36	28.49	54.00	25.51

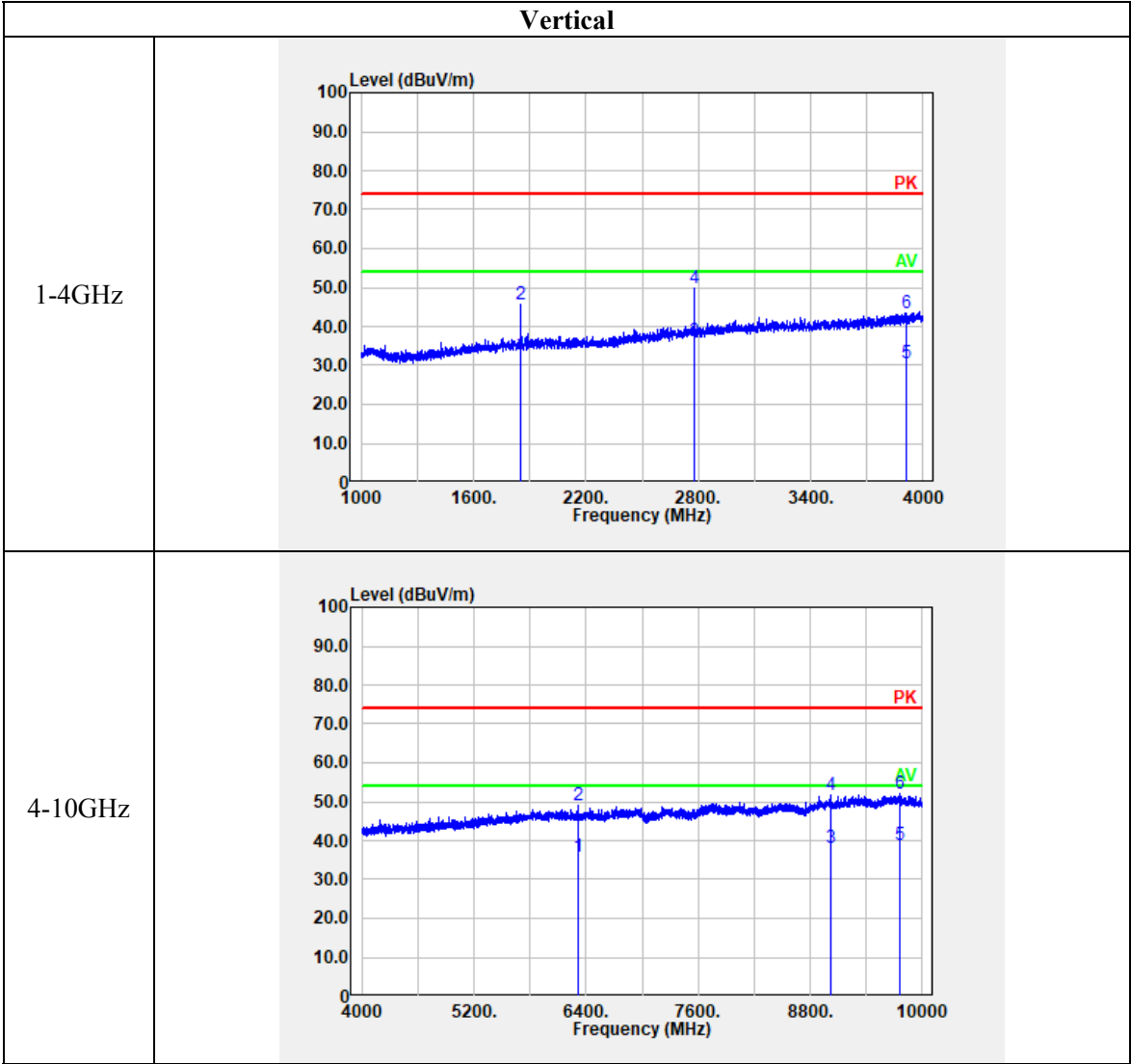
4M:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 906 MHz							
906.00	66.96	QP	H	29.51	96.47	N/A	N/A
906.00	72.78	QP	V	29.51	102.29	N/A	N/A
902.00	26.49	QP	V	29.46	55.95	82.29	26.34
1812.000	39.12	PK	H	1.35	40.47	74.00	33.53
1812.000	26.09	AV	H	1.35	27.44	54.00	26.56
1812.000	35.42	PK	V	1.35	36.77	74.00	37.23
1812.000	22.31	AV	V	1.35	23.66	54.00	30.34
2718.000	39.86	PK	H	4.80	44.66	74.00	29.34
2718.000	26.79	AV	H	4.80	31.59	54.00	22.41
2718.000	35.66	PK	V	4.80	40.46	74.00	33.54
2718.000	22.58	AV	V	4.80	27.38	54.00	26.62
3624.000	35.18	PK	H	8.02	43.20	74.00	30.80
3624.000	22.12	AV	H	8.02	30.14	54.00	23.86
3624.000	34.26	PK	V	8.02	42.28	74.00	31.72
3624.000	21.13	AV	V	8.02	29.15	54.00	24.85
Middle Channel: 914 MHz							
914.00	67.08	QP	H	29.62	96.70	N/A	N/A
914.00	74.15	QP	V	29.62	103.77	N/A	N/A
1828.000	36.56	PK	H	1.42	37.98	74.00	36.02
1828.000	23.58	AV	H	1.42	25.00	54.00	29.00
1828.000	34.84	PK	V	1.42	36.26	74.00	37.74
1828.000	21.57	AV	V	1.42	22.99	54.00	31.01
2742.000	38.45	PK	H	4.90	43.35	74.00	30.65
2742.000	25.47	AV	H	4.90	30.37	54.00	23.63
2742.000	36.54	PK	V	4.90	41.44	74.00	32.56
2742.000	23.15	AV	V	4.90	28.05	54.00	25.95
3656.000	34.52	PK	H	8.10	42.62	74.00	31.38
3656.000	21.43	AV	H	8.10	29.53	54.00	24.47
3656.000	34.35	PK	V	8.10	42.45	74.00	31.55
3656.000	21.23	AV	V	8.10	29.33	54.00	24.67
High Channel: 922 MHz							
922.00	67.05	QP	H	29.60	96.65	N/A	N/A
922.00	73.88	QP	V	29.60	103.48	N/A	N/A
928.00	24.03	QP	V	29.70	53.73	83.48	29.75
1844.000	40.13	PK	H	1.50	41.63	74.00	32.37
1844.000	27.04	AV	H	1.50	28.54	54.00	25.46
1844.000	35.79	PK	V	1.50	37.29	74.00	36.71
1844.000	22.54	AV	V	1.50	24.04	54.00	29.96
2766.000	39.99	PK	H	4.98	44.97	74.00	29.03
2766.000	26.98	AV	H	4.98	31.96	54.00	22.04
2766.000	34.03	PK	V	4.98	39.01	74.00	34.99
2766.000	20.92	AV	V	4.98	25.90	54.00	28.10
3688.000	33.45	PK	H	8.29	41.74	74.00	32.26
3688.000	20.37	AV	H	8.29	28.66	54.00	25.34
3688.000	34.77	PK	V	8.29	43.06	74.00	30.94
3688.000	21.59	AV	V	8.29	29.88	54.00	24.12

Worst Test plots (High channel)

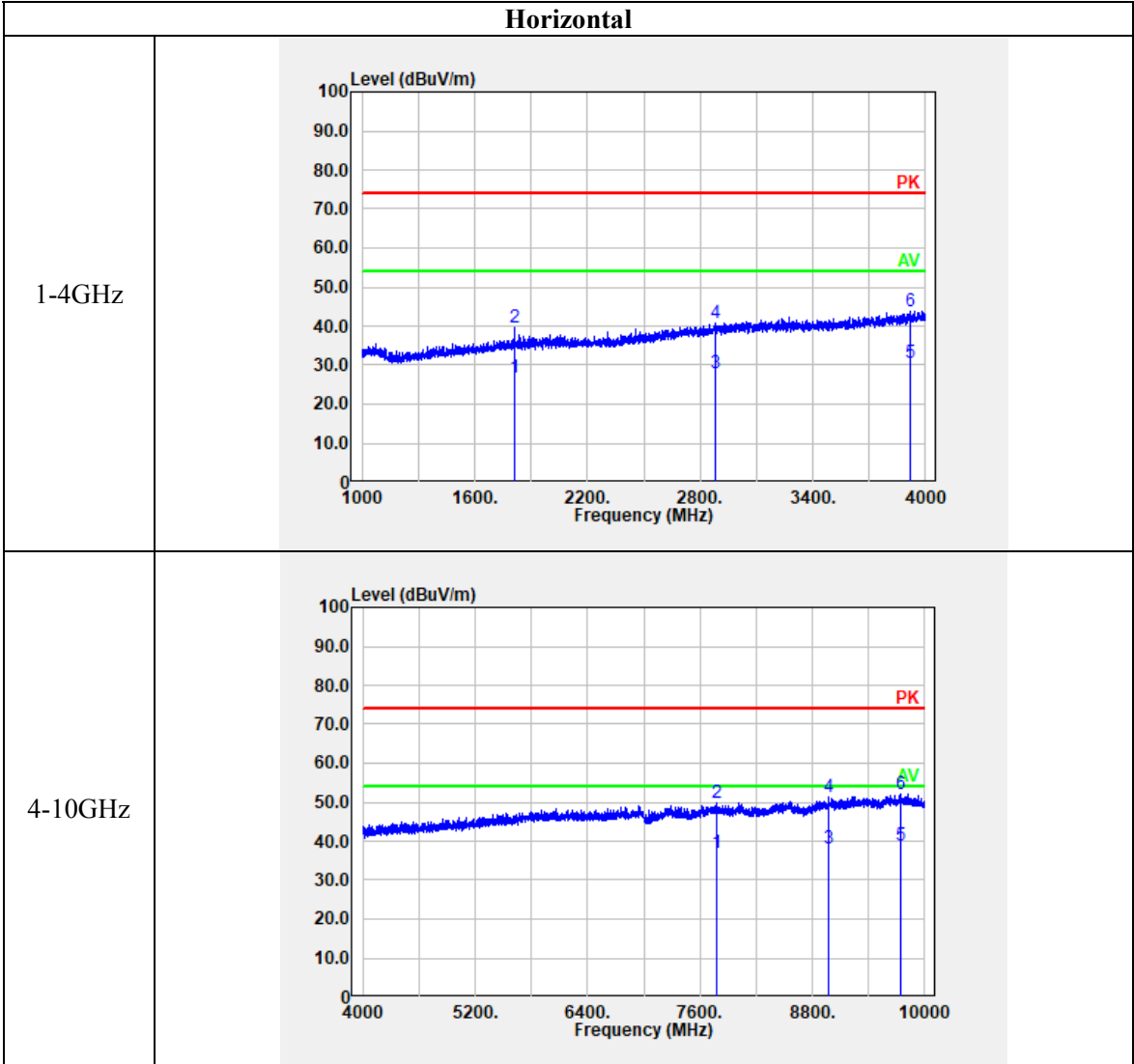
1M:

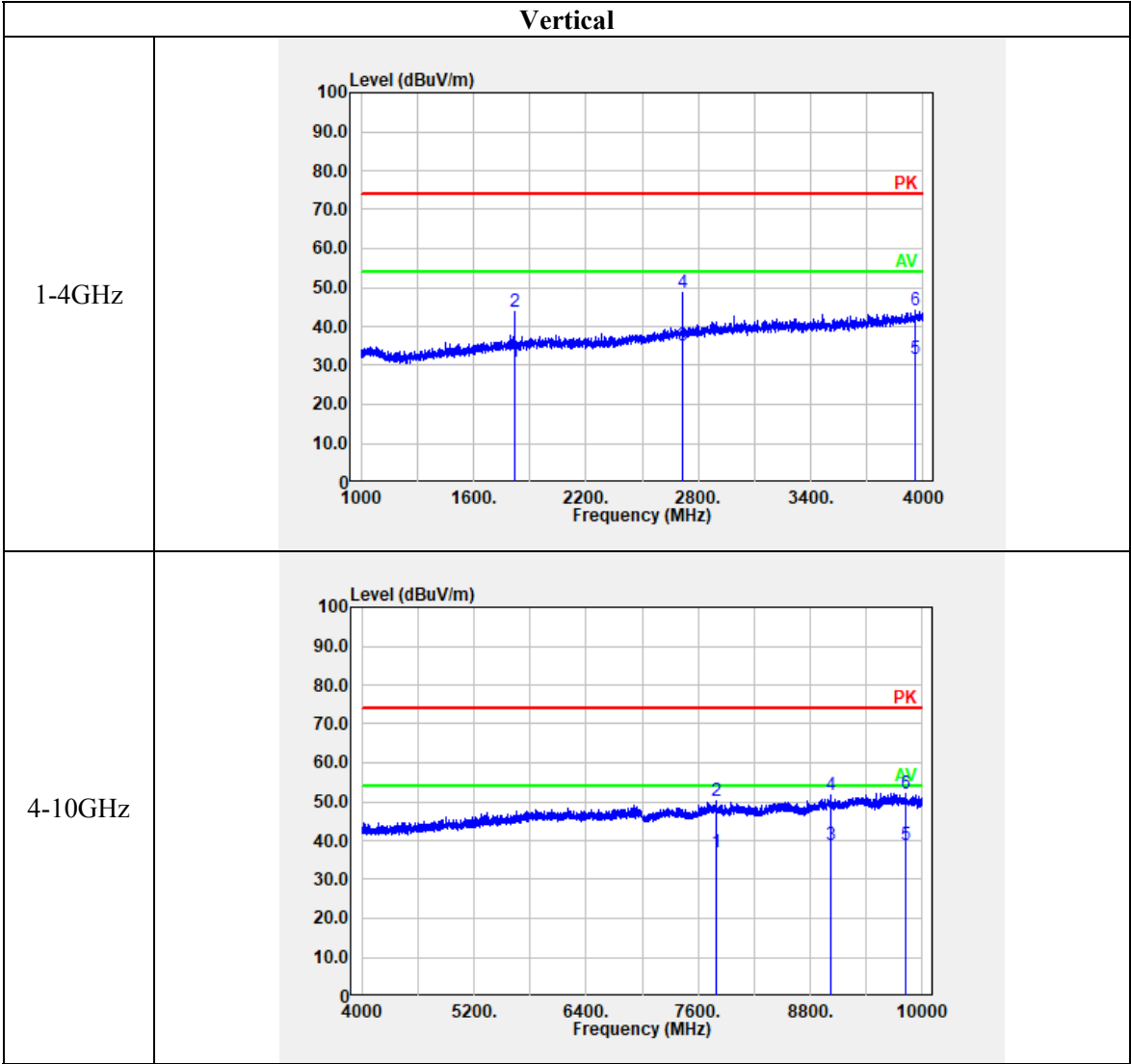




Worst Test plots (Low channel)

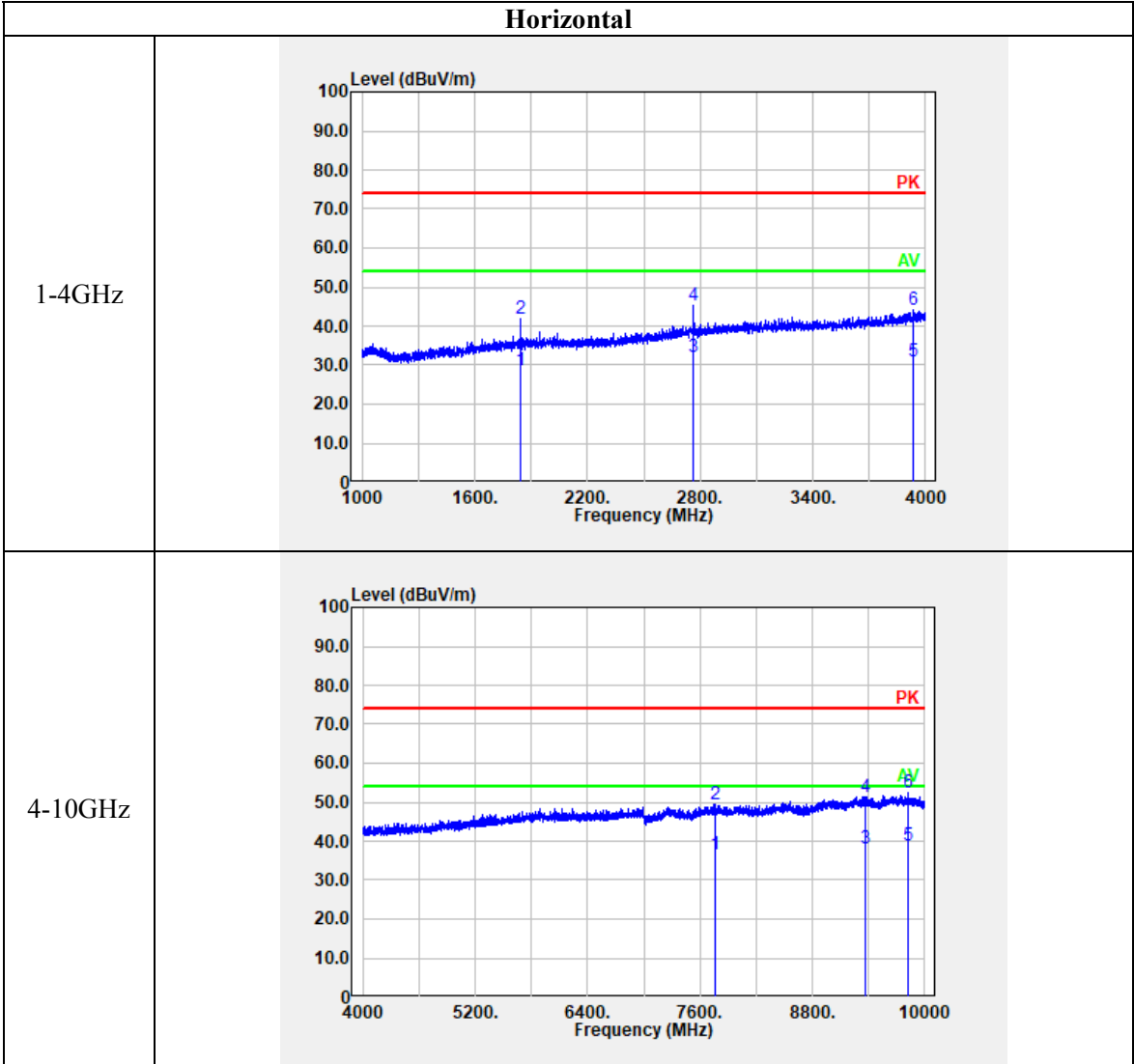
2M:

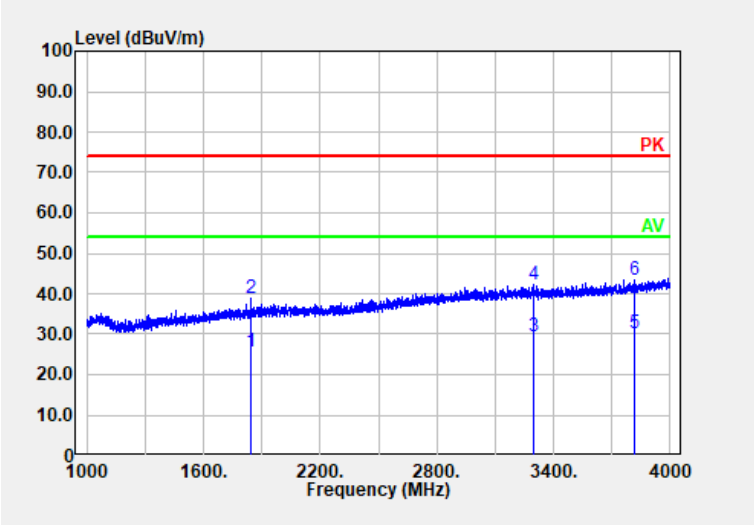
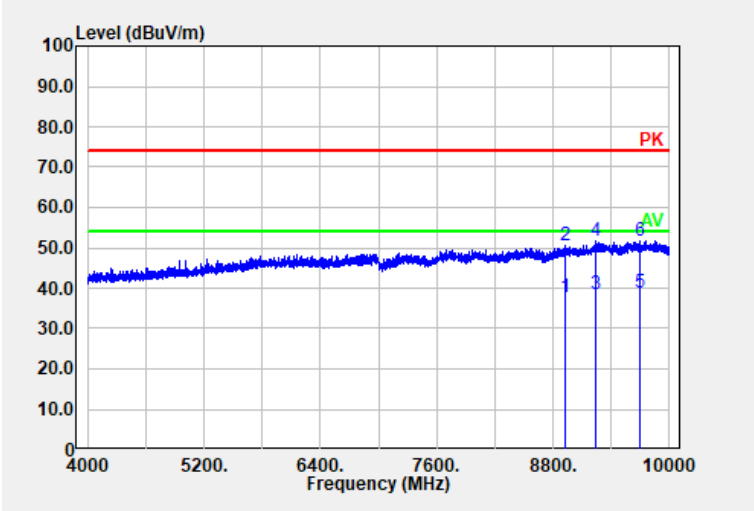




Worst Test plots (High channel)

4M:



Vertical	
1-4GHz	
4-10GHz	

4.3 6 dB Emission Bandwidth:

Serial Number:	24GI_1	Test Date:	2023/5/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

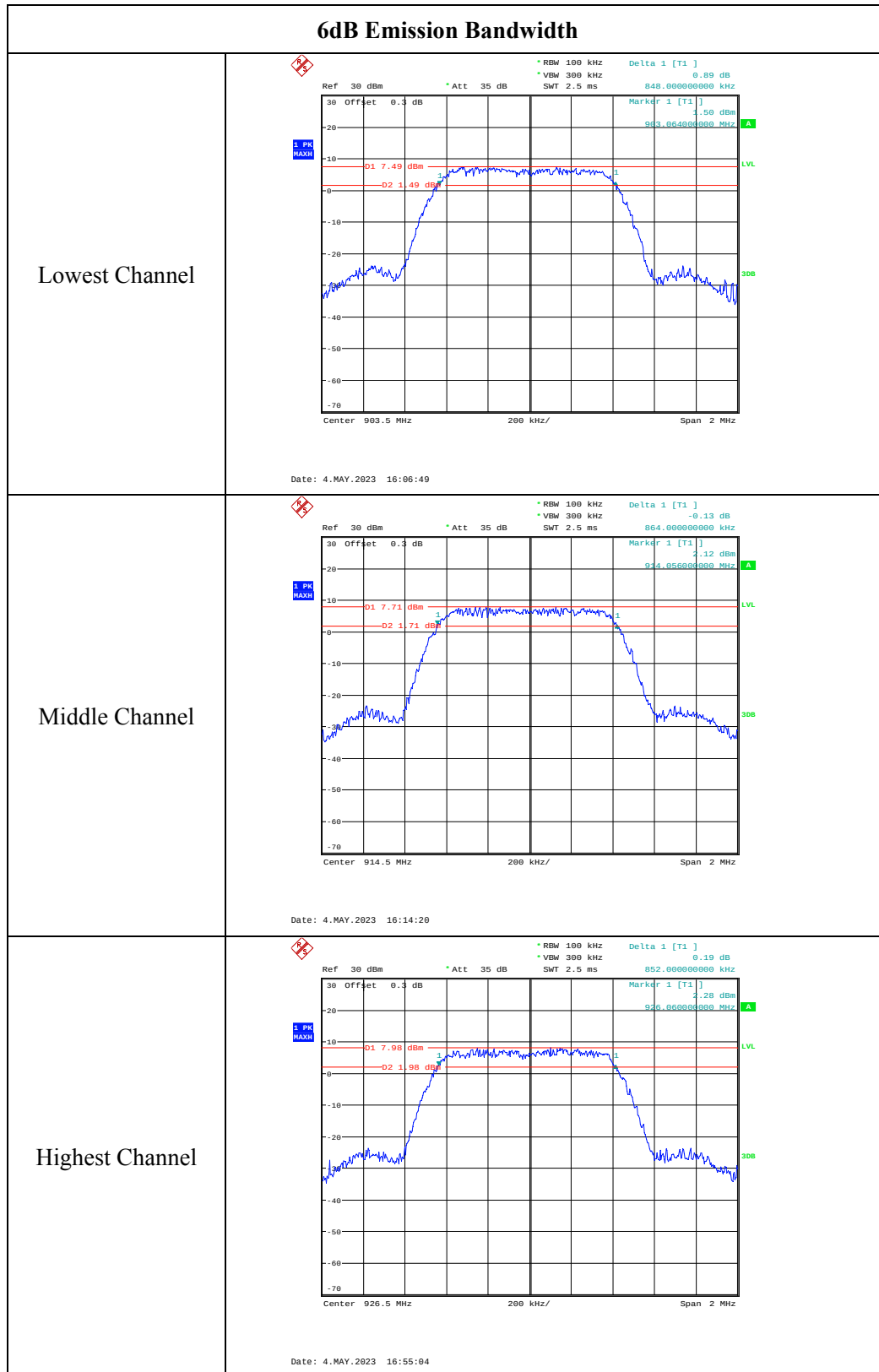
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

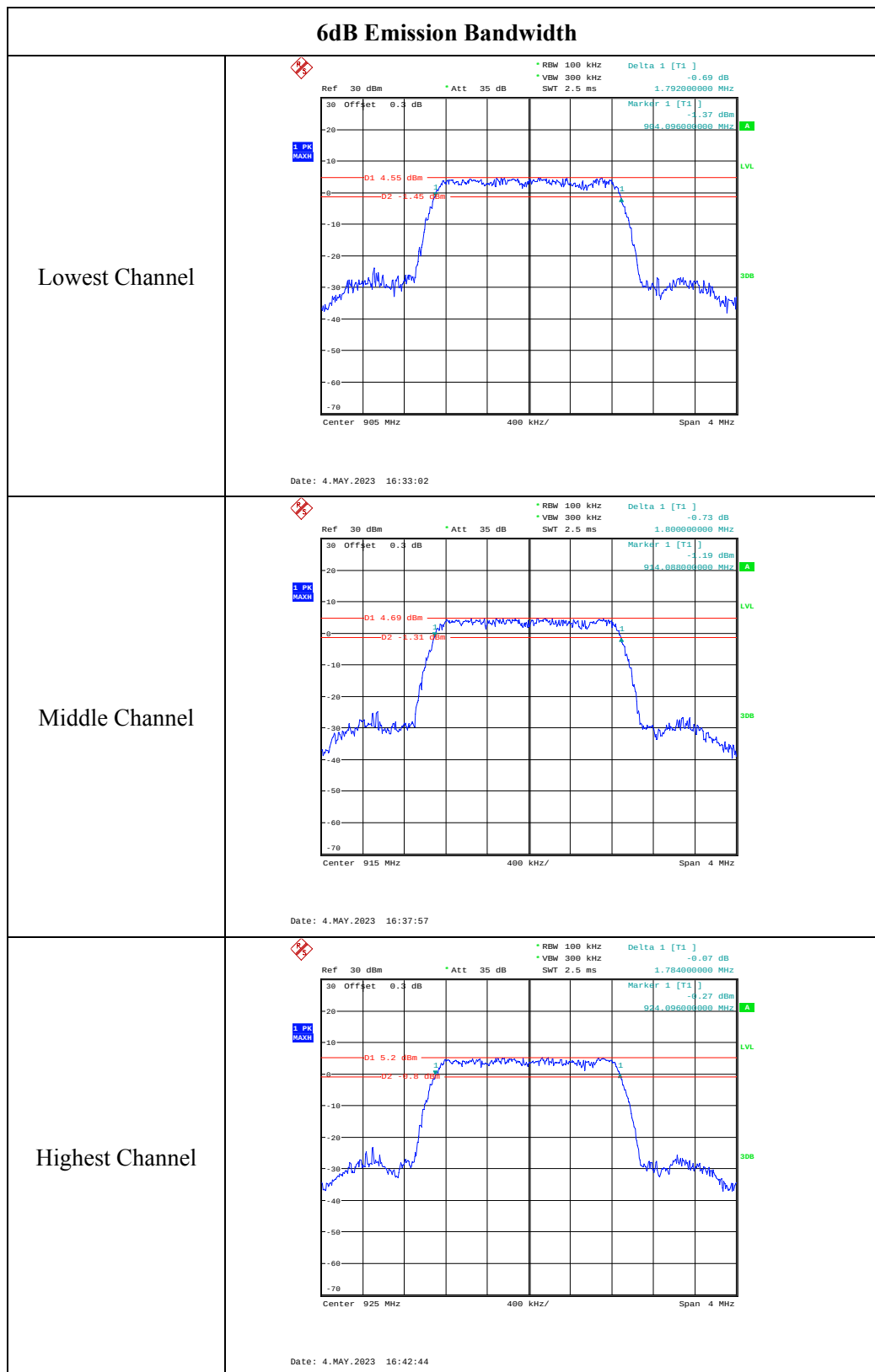
Test Data:

Bandwidth(MHz)	Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
1M	Lowest	903.5	0.848	≥ 0.5
	Middle	914.5	0.864	≥ 0.5
	Highest	926.5	0.852	≥ 0.5
2M	Lowest	905	1.792	≥ 0.5
	Middle	915	1.8	≥ 0.5
	Highest	925	1.784	≥ 0.5
4M	Lowest	906	3.648	≥ 0.5
	Middle	914	3.6	≥ 0.5
	Highest	922	3.632	≥ 0.5

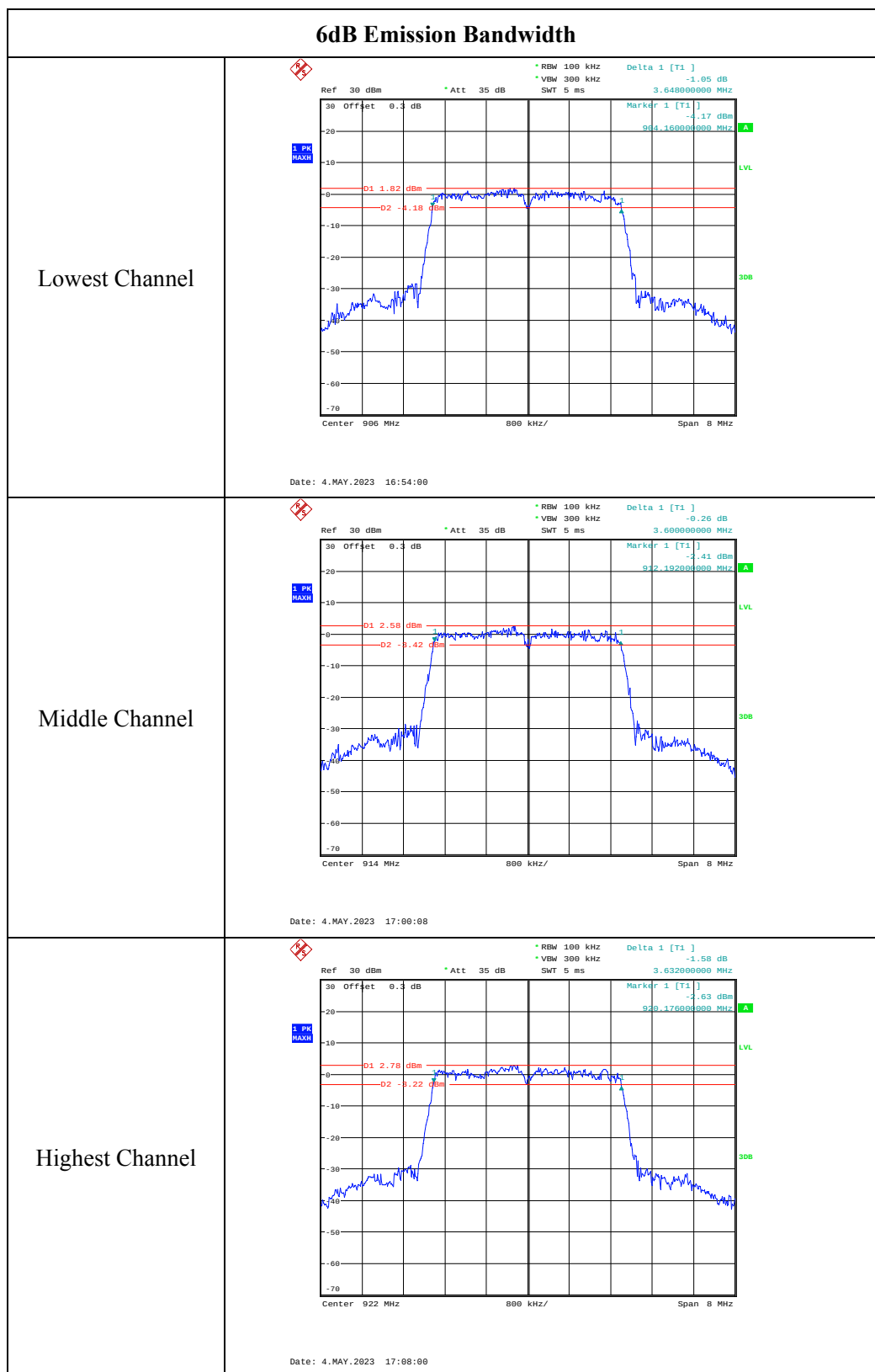
1M:



2M:



4M:



4.4 99% Occupied Bandwidth:

Serial Number:	24GI_1	Test Date:	2023/5/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

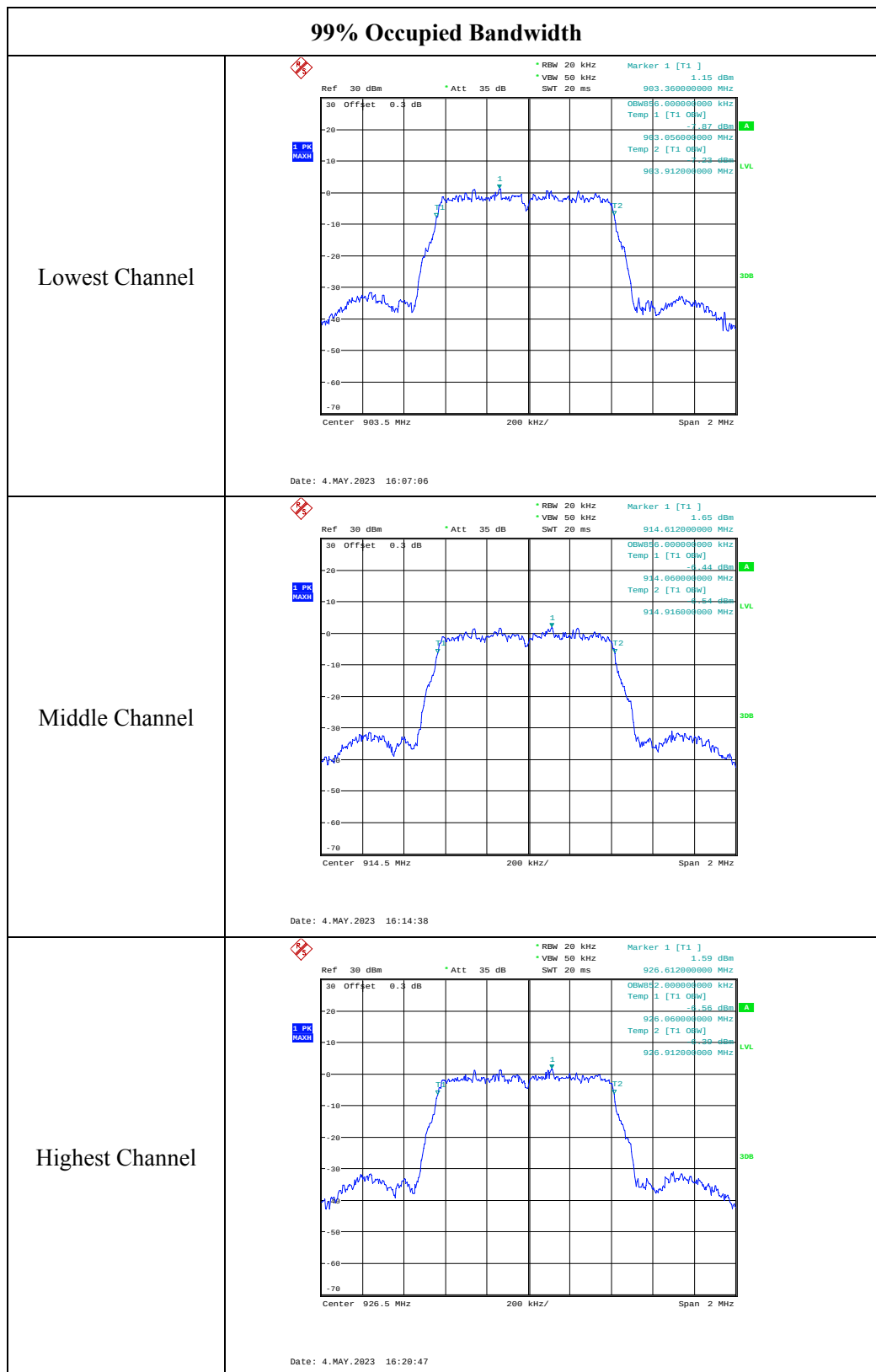
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

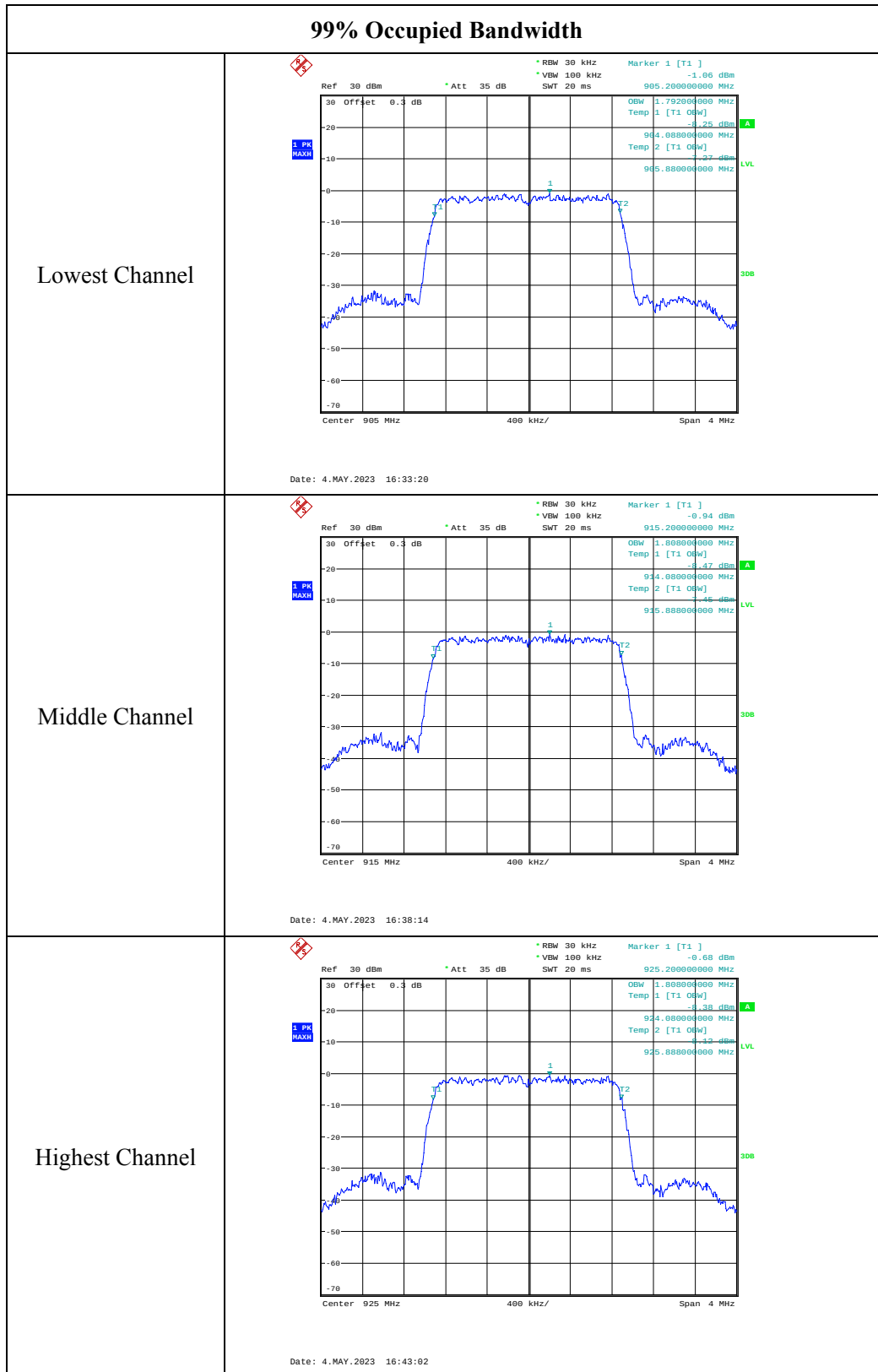
Test Data:

Bandwidth(MHz)	Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
1M	Lowest	903.5	0.856
	Middle	914.5	0.856
	Highest	926.5	0.852
2M	Lowest	905	1.792
	Middle	915	1.808
	Highest	925	1.808
4M	Lowest	906	3.632
	Middle	914	3.632
	Highest	922	3.632

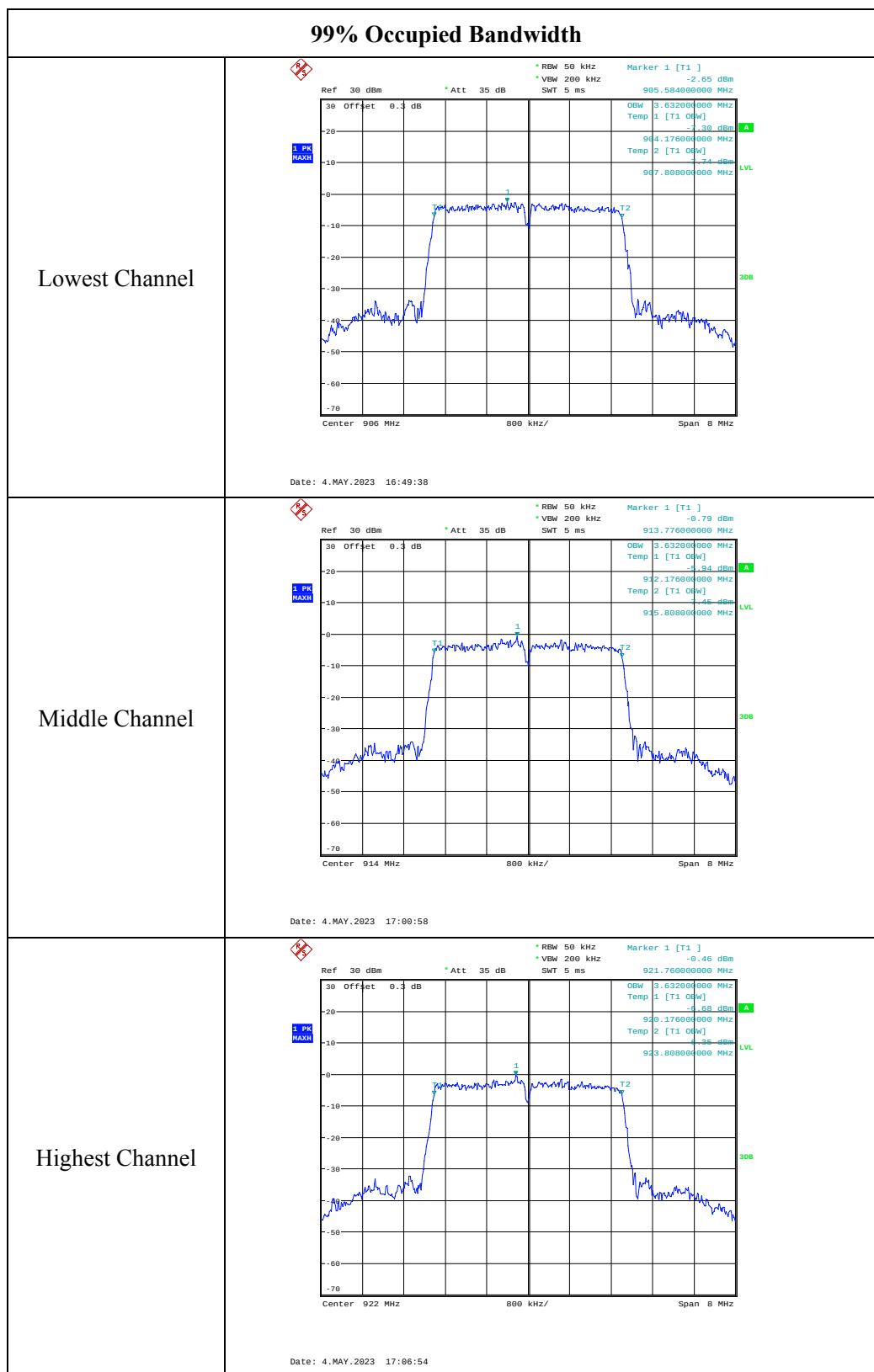
1M:



2M:



4M:



4.5 Maximum Conducted Output Power:

Serial Number:	24GI_1	Test Date:	2023/5/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Bandwidth(MHz)	Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
1M	Lowest	903.5	16.85	≤30
	Middle	914.5	17.49	≤30
	Highest	926.5	17.2	≤30
2M	Lowest	905	17.43	≤30
	Middle	915	17.64	≤30
	Highest	925	17.89	≤30
4M	Lowest	906	17.01	≤30
	Middle	914	17.29	≤30
	Highest	922	17.69	≤30

4.6 Maximum power spectral density:

Serial Number:	24GI_1	Test Date:	2023/5/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

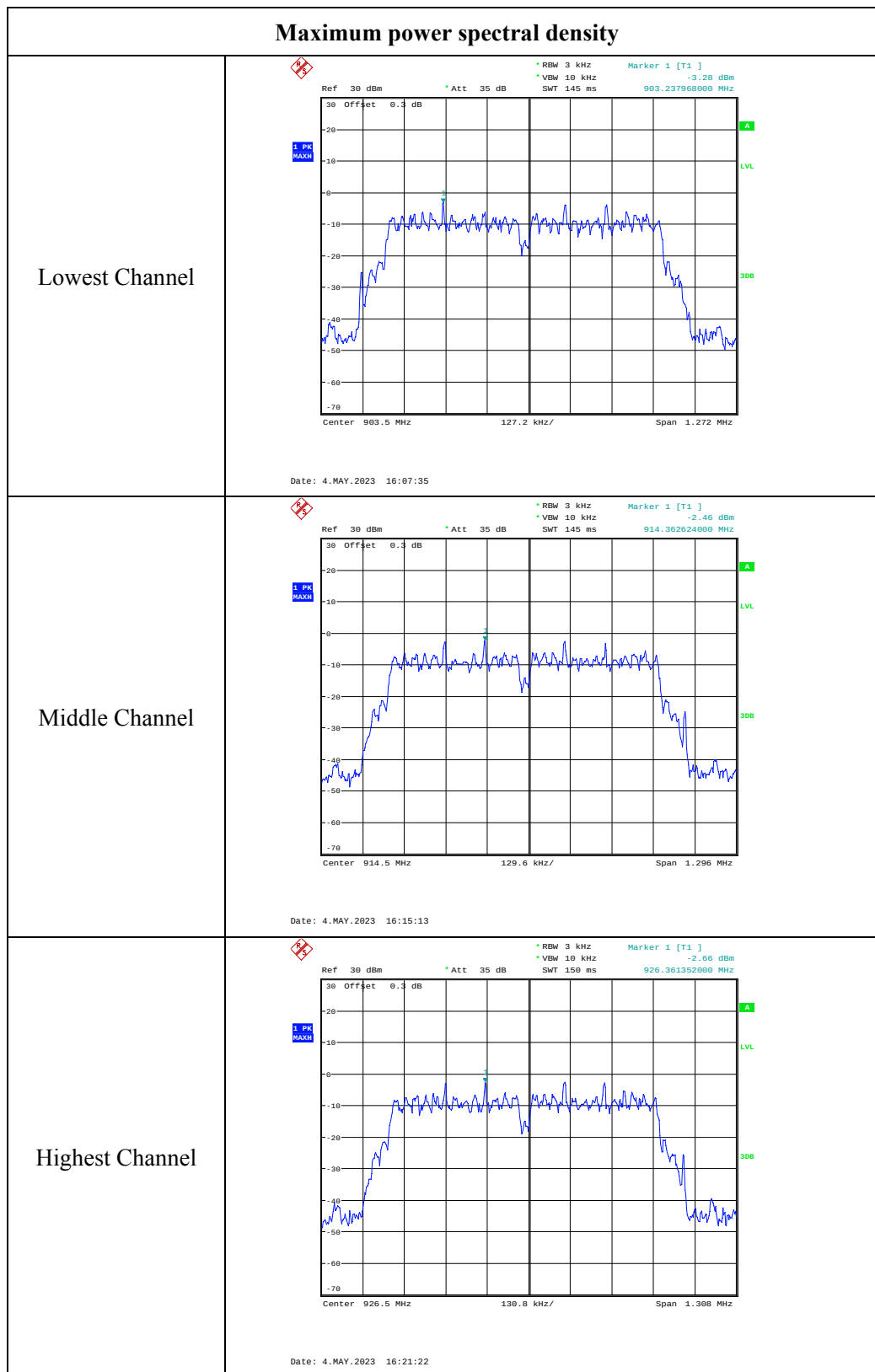
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

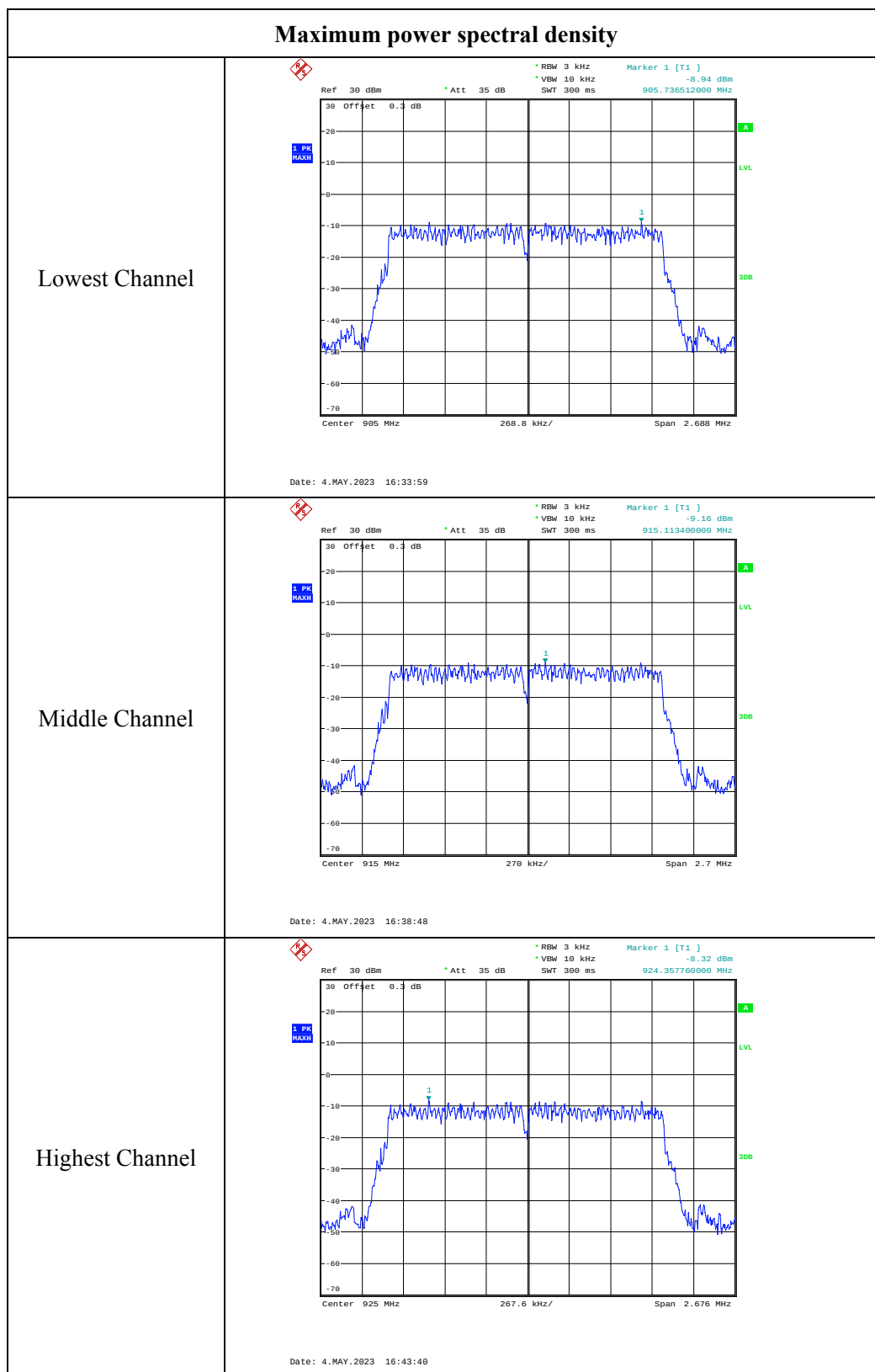
Test Data:

Bandwidth(MHz)	Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
1M	Lowest	903.5	-3.28	≤8.00
	Middle	914.5	-2.46	≤8.00
	Highest	926.5	-2.66	≤8.00
2M	Lowest	905	-8.94	≤8.00
	Middle	915	-9.16	≤8.00
	Highest	925	-8.32	≤8.00
4M	Lowest	906	-11.46	≤8.00
	Middle	914	-11.39	≤8.00
	Highest	922	-11.25	≤8.00

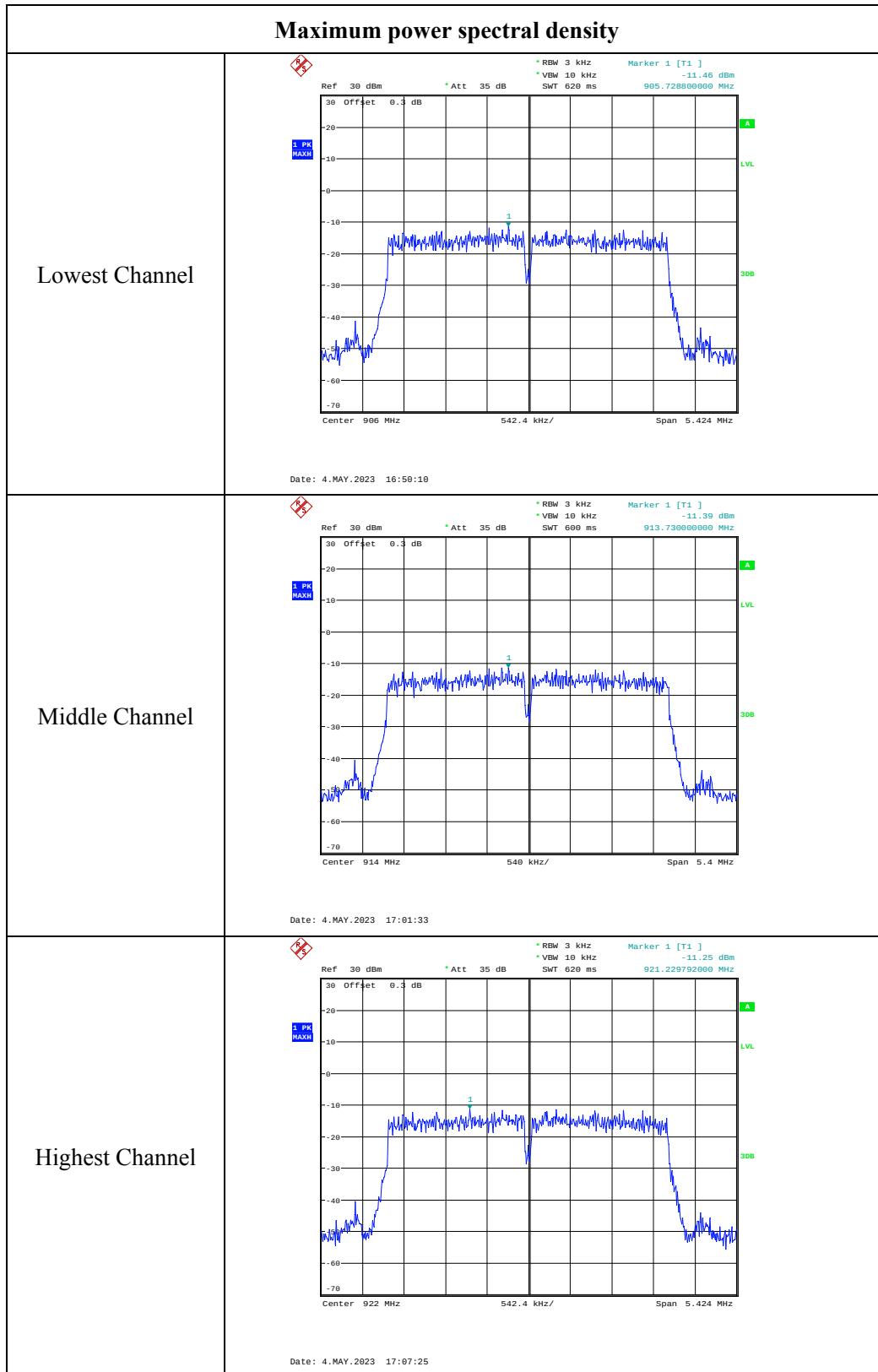
1M:



2M:



4M:



4.7 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	24GI_1	Test Date:	2023/5/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

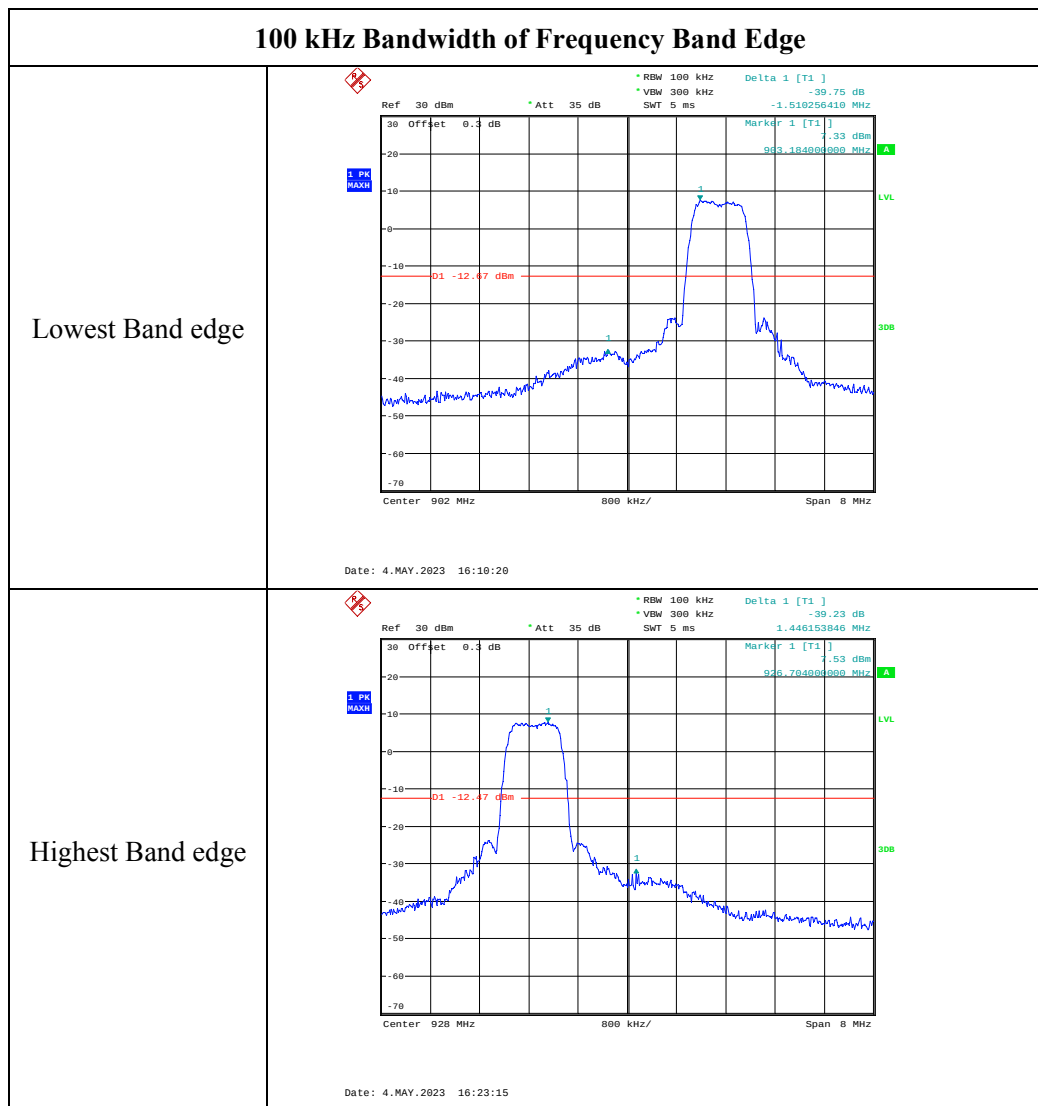
Temperature: (°C)	24.8	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

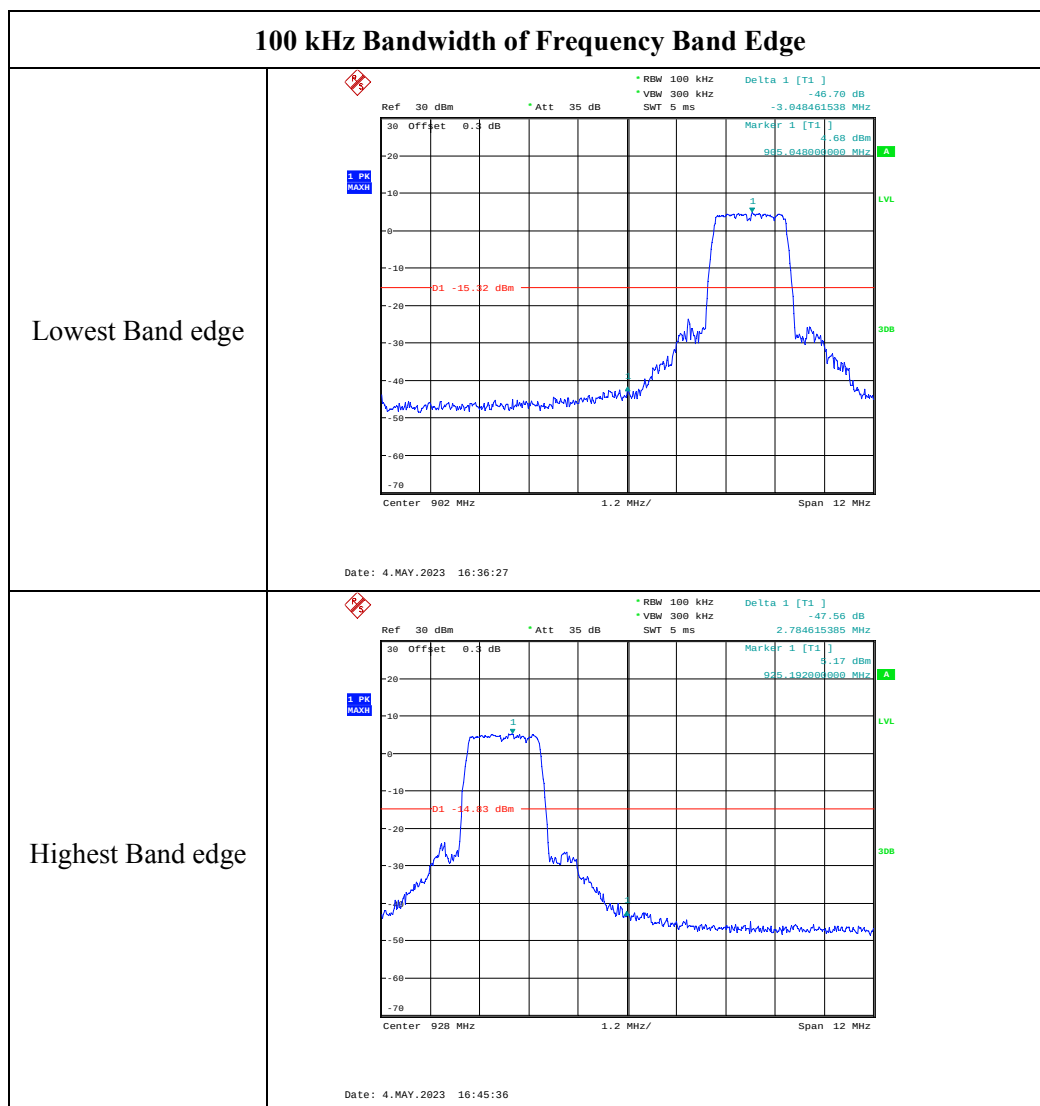
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

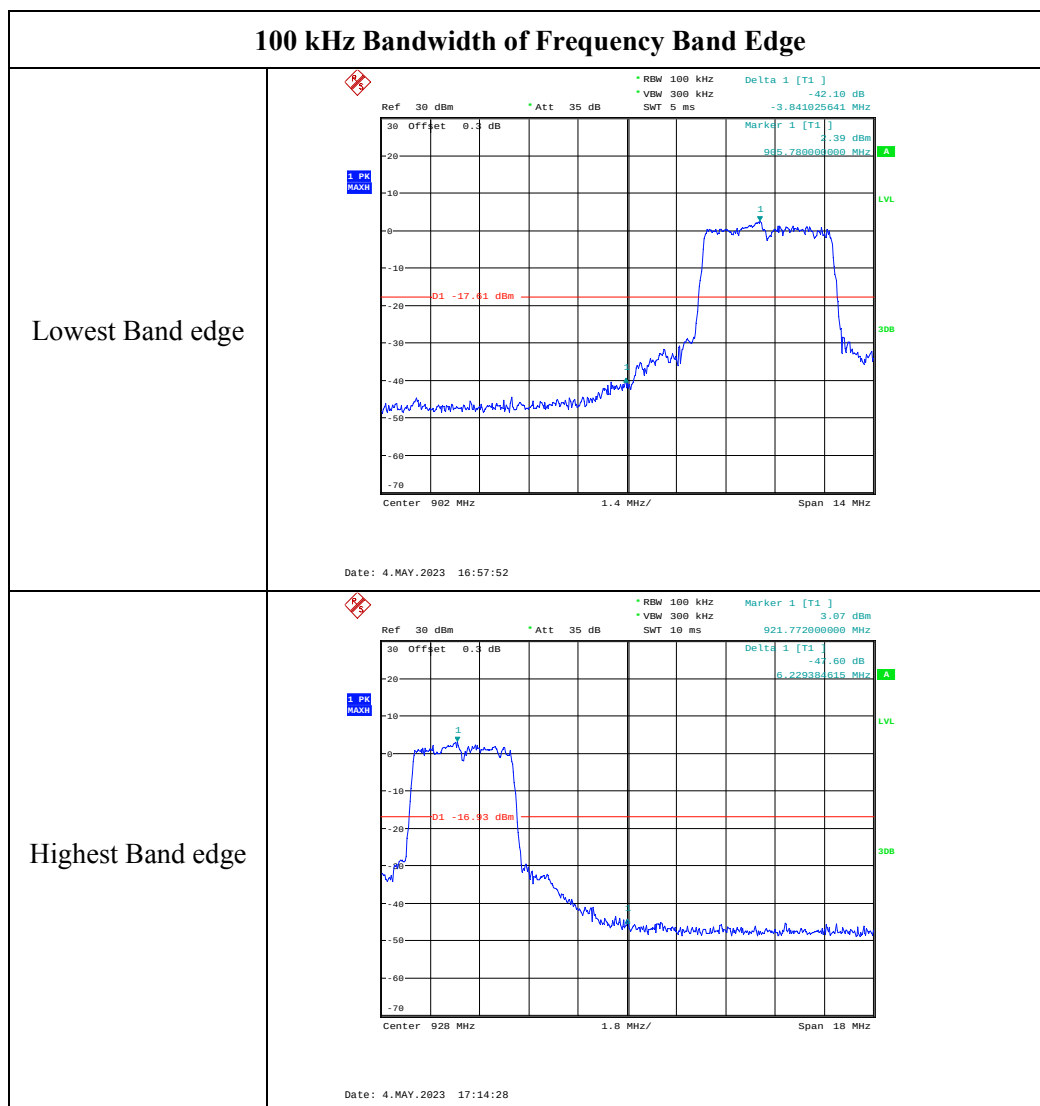
1M:



2M:



4M:



4.8 Duty Cycle:

Serial Number:	24GI_1	Test Date:	2023/5/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

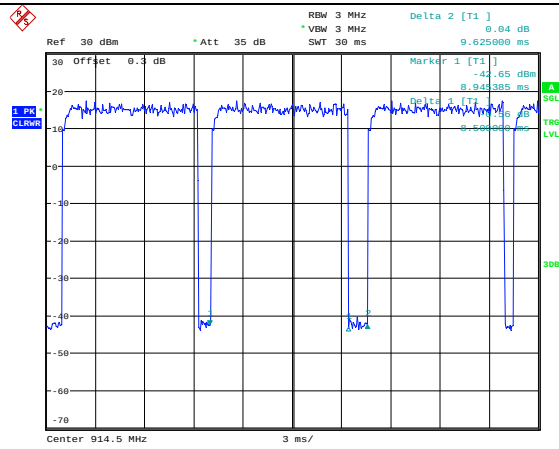
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Bandwidth(MHz)	Test Channel	Test Frequency (MHz)	Duty cycle (%)	1/T (Hz)
1M	Middle	914.5	Not constant	118
2M	Middle	915	Not constant	252
4M	Middle	914	Not constant	492

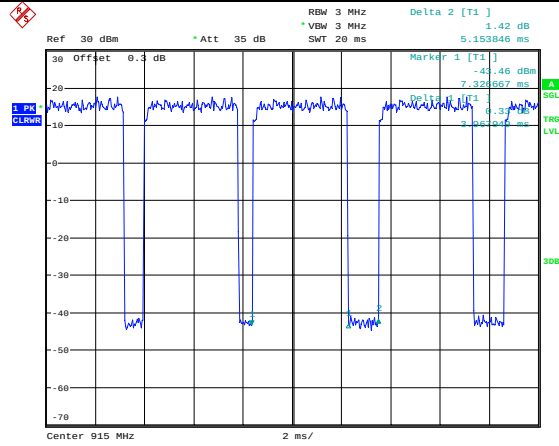
Duty Cycle

1M



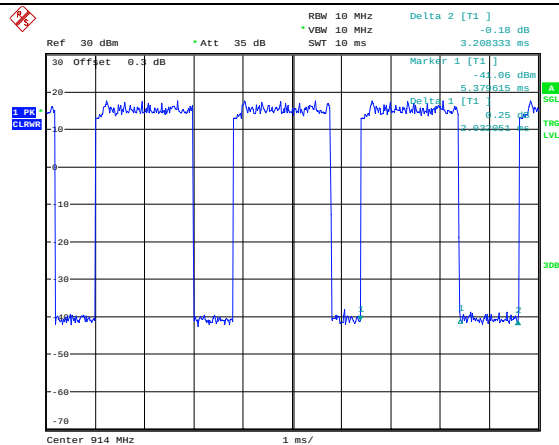
Date: 4.MAY.2023 16:17:42

2M



Date: 4.MAY.2023 16:41:51

4M



Date: 4.MAY.2023 17:03:28

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC §15.247 (i) and subpart §1.1307

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

5.2 Procedure

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

5.3 Measurement Result

Operation Modes	Frequency (MHz)	$\lambda/2\pi$ (mm)	Distance (mm)	Exemption ERP		Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	MPE-Based Exemption
				(mW)	(dBm)				
DTS	903.5-926.5	52.85	200	463	26.65	18	0	15.85	Compliant

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

===== END OF REPORT =====