



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Fanvil Link Technology Co.,LTD

Address: Room 1517,Building G,Hualian City Panorama,27 Region, Bao'an District,
Shenzhen China

FCC ID: 2BCUQ-I506W

Product Name: Indoor Unit

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: CR230951413-00A

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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

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230951413-00A	Original Report	2023/10/19

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Indoor Unit,
Trade Name:	Fanvil
EUT Model:	i506W
Multiple Model(s):	i504W, Y504W, Y504W-Y
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20) 2422-2452 MHz(802.11n ht40)
Maximum Peak Output Power (Conducted):	22.64 dBm
Modulation Type:	802.11b:DSSS-DBPSK, DQPSK, CCK 802.11g/n:OFDM-BPSK, QPSK, 16QAM, 64QAM
Rated Input Voltage:	DC 12V from adapter or DC 48V from PoE
Serial Number:	CE&RE: 2ATU-1 for i506W, 2ATU-3 for i504W, 2ATU-4 for Y504W-Y RF: 2ATU-2
EUT Received Date:	2023/9/4
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

Operation Frequency Detail:

For 802.11b/g/n ht20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

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

Test Channel	Frequency (MHz)
Lowest	2412
Middle	2437
Highest	2462

For 802.11n ht40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437	/	/

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

Test Channel	Frequency (MHz)
Lowest	2422
Middle	2437
Highest	2452

Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain	Remark
FPC	50	2.4~2.5GHz	6.6 dBi	For model i506W
FPC	50	2.4~2.5GHz	3.5 dBi	For model i504W, Y504W, Y504W-Y

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:

For 802.11b/g/n:

EUT Operation Mode:		The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:		No		
EUT Exercise Software:		Secure CRT		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:				
Test Modes	Data Rate	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
802.11b	1Mbps	21	21	21
802.11g	6Mbps	21	21	21
802.11n ht20	MCS0	21	21	21
802.11n ht40	MCS0	21	21	21
Note1: The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.				

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
GOSPELL	POE	G0720-480-050	212701319
TRANSIN	Adapter	TS-A012-120100E9	N/A

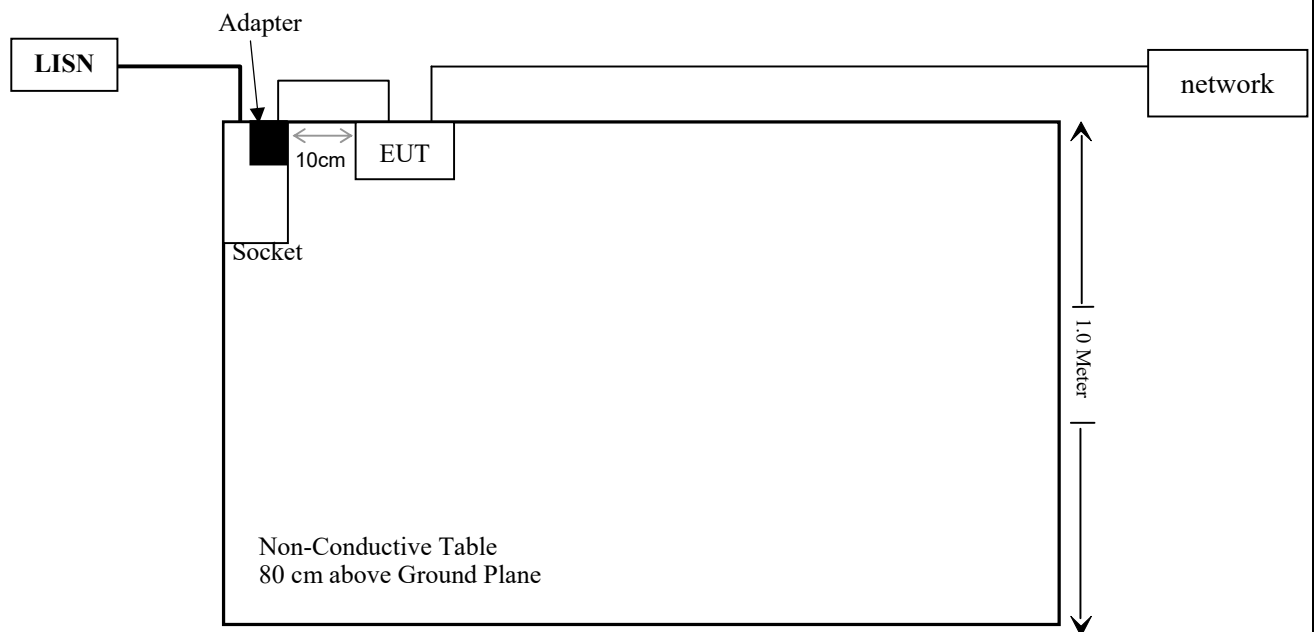
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Unshielded un-detachable DC cable	No	No	2.0	Adapter	EUT
Unshielded un-detachable AC cable	No	No	1.2	LISN	Socket
Unshielded detachable RJ45 cable	No	No	10.0	EUT	network
Unshielded detachable AC cable	No	No	1.2	LISN/AC mains	POE
Unshielded detachable RJ45 cable	No	No	0.3	POE	EUT

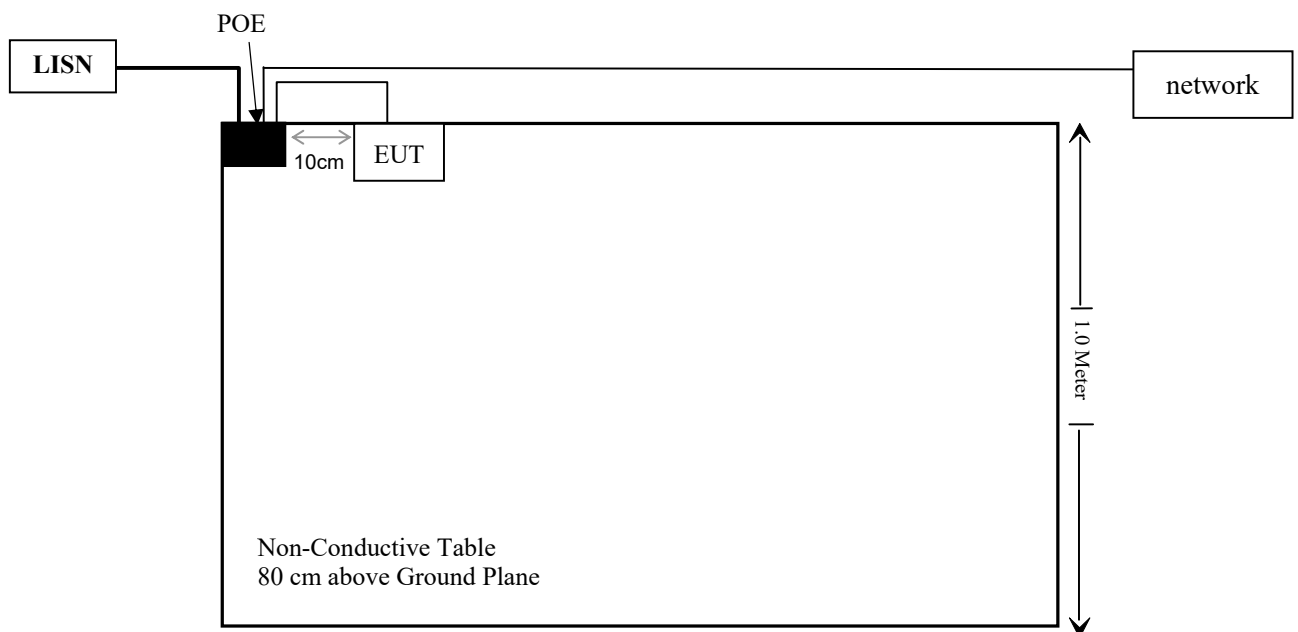
1.2.4 Block Diagram of Test Setup

For conducted emission

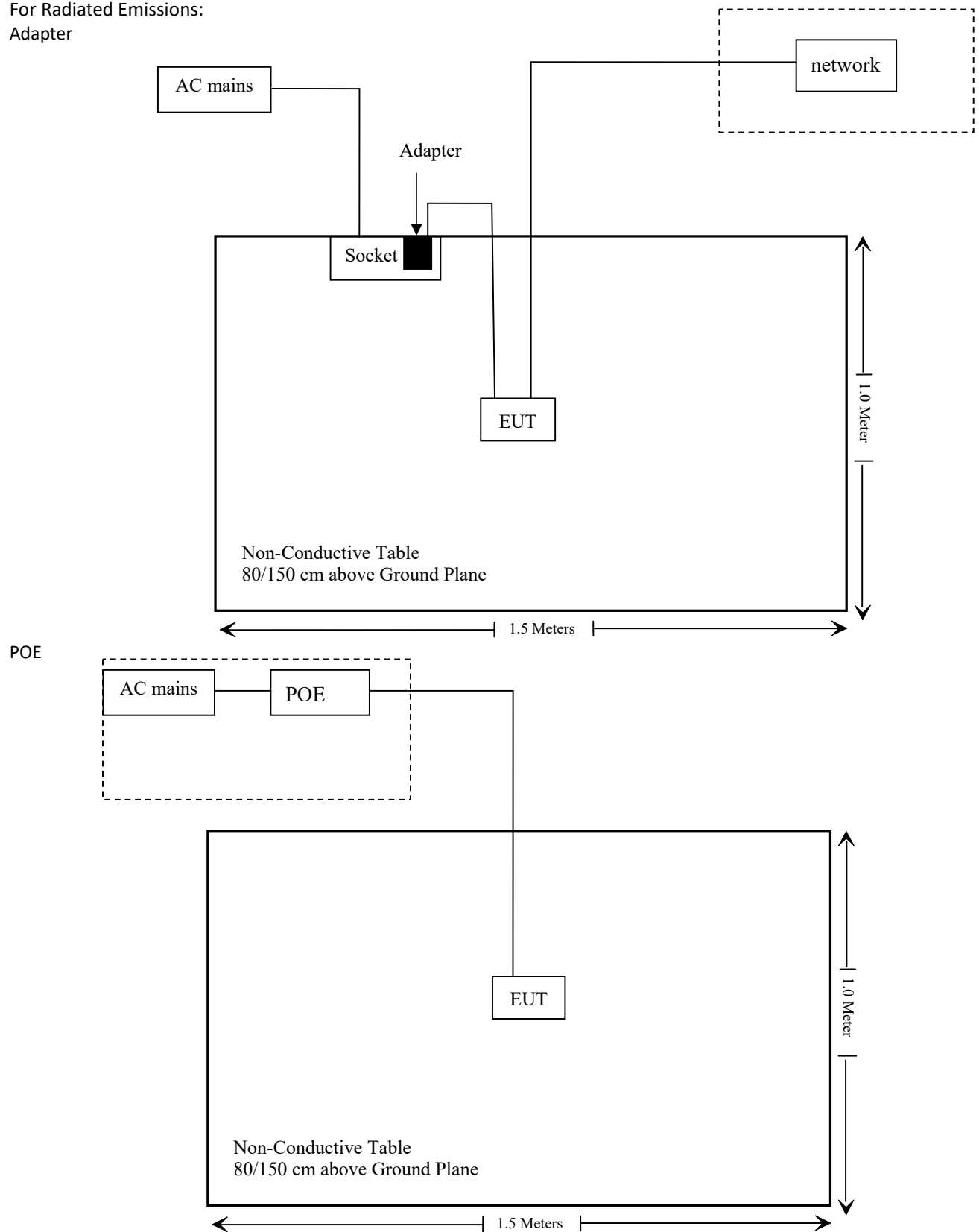
Adapter



POE



For Radiated Emissions:
Adapter



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	$\pm 5\%$
RF output power, conducted	$\pm 0.61\text{dB}$
Power Spectral Density, conducted	$\pm 0.61\text{ dB}$
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	$\pm 1.26\text{ dB}$
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
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)	Minimum 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	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

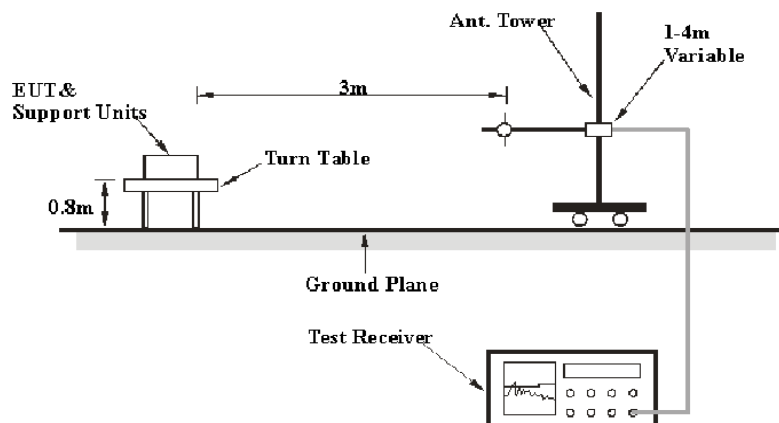
3.2.1 Applicable Standard

FCC §15.247 (d);

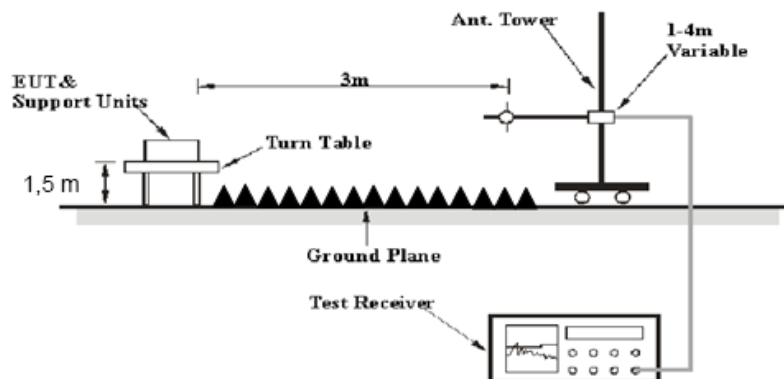
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 25 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- 25GHz:

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

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

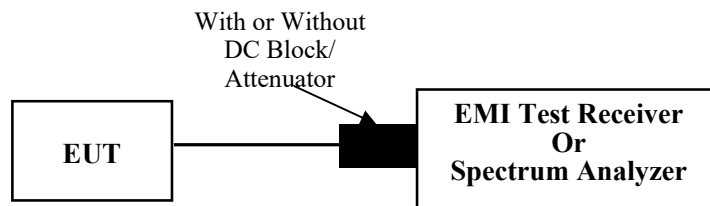
3.3 Minimum 6 dB Emission Bandwidth

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



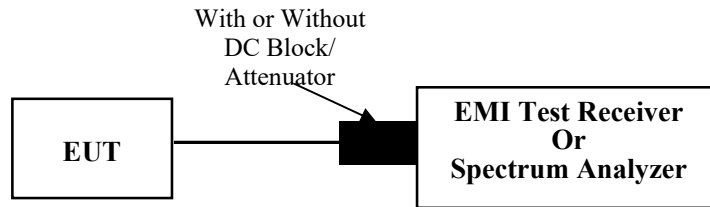
3.3.3 Test Procedure

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).

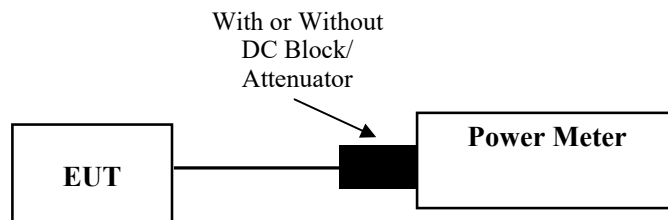
3.5 Maximum Conducted Output Power

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 peak conducted output power may be measured using a broadband peak 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.

According to ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

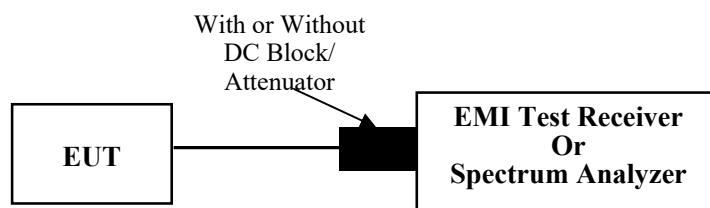
3.6 Maximum Power Spectral Density

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

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

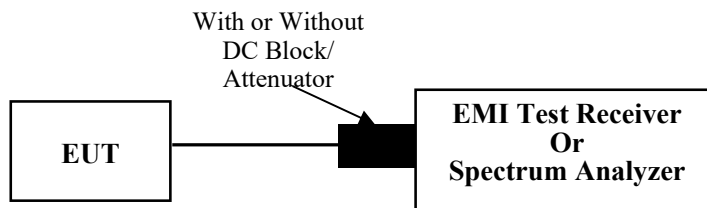
3.7 100 kHz Bandwidth of Frequency Band Edge

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

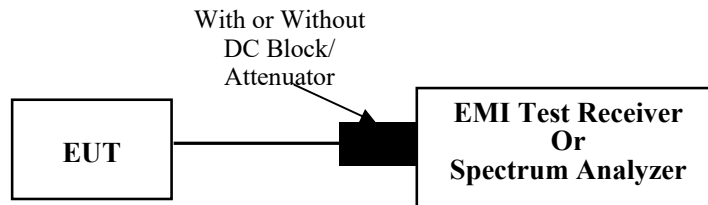
According to ANSI C63.10-2013 Section 11.11

- 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:	2ATU-1,2ATU-3,2ATU-4	Test Date:	2023/09/27
Test Site:	CE	Test Mode:	Transmitting maximum output power Mode (802.11n ht40 High Channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.8	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.1
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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	2023/03/31	2024/03/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/08/06	2024/08/05
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).

Test Data:

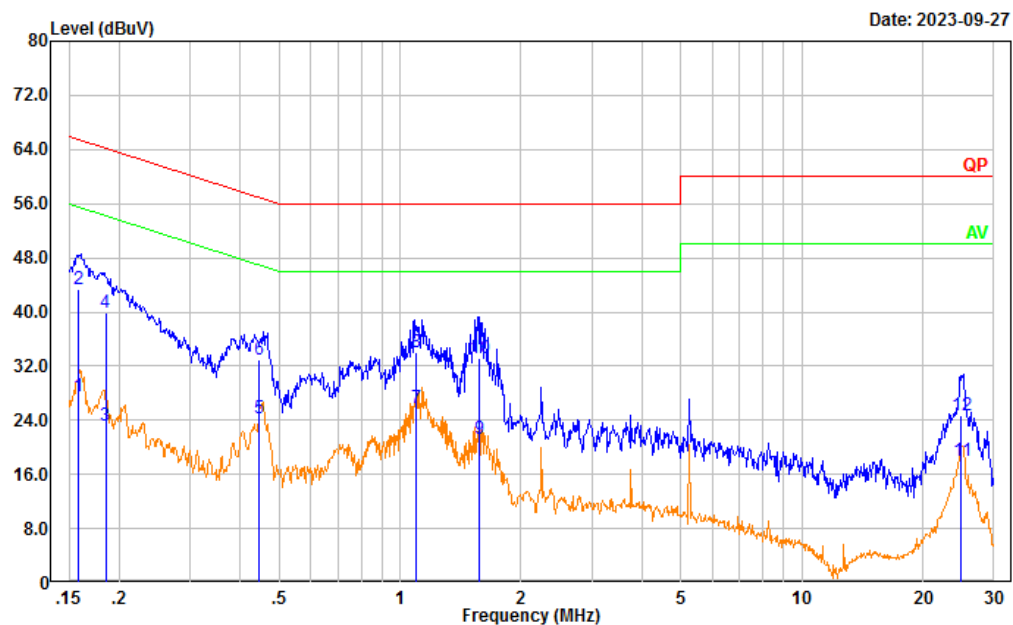
Model: i506W (Adapter)

Project No.: CR230951413-RF

Tester: David Huang

Port: Line

Note:



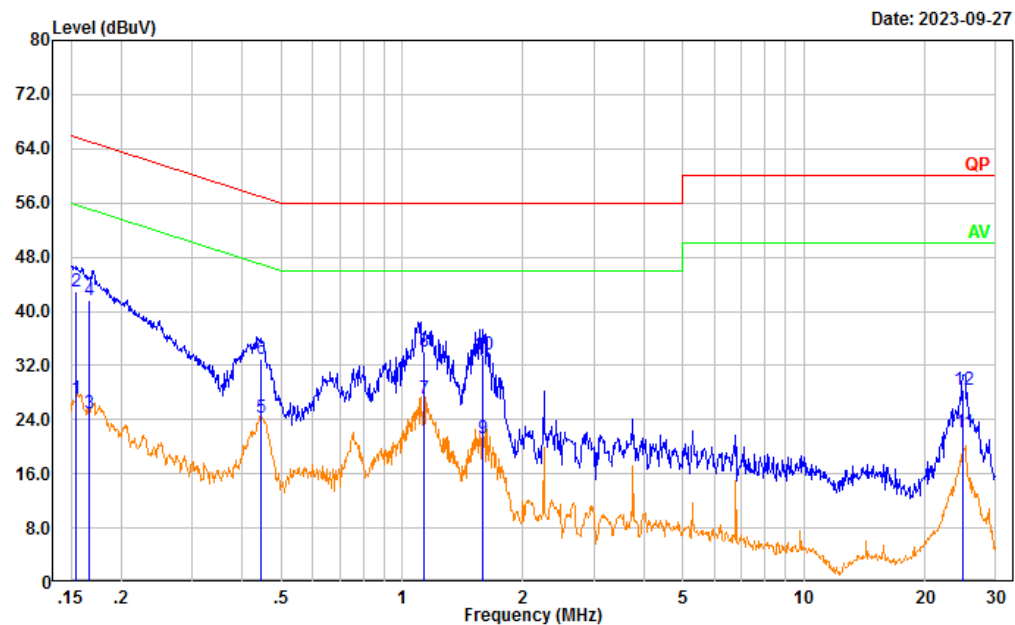
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.158	17.93	9.61	27.54	55.54	28.00	Average
2	0.158	33.70	9.61	43.31	65.54	22.23	QP
3	0.185	13.54	9.61	23.15	54.26	31.11	Average
4	0.185	30.27	9.61	39.88	64.26	24.38	QP
5	0.444	14.66	9.61	24.27	46.98	22.71	Average
6	0.444	23.41	9.61	33.02	56.98	23.96	QP
7	1.098	16.23	9.62	25.85	46.00	20.15	Average
8	1.098	24.43	9.62	34.05	56.00	21.95	QP
9	1.577	11.61	9.63	21.24	46.00	24.76	Average
10	1.577	23.61	9.63	33.24	56.00	22.76	QP
11	24.897	8.28	9.81	18.09	50.00	31.91	Average
12	24.897	14.83	9.81	24.64	60.00	35.36	QP

Project No.: CR230951413-RF

Tester: David Huang

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.155	17.45	9.61	27.06	55.75	28.69	Average
2	0.155	33.39	9.61	43.00	65.75	22.75	QP
3	0.166	15.35	9.61	24.96	55.14	30.18	Average
4	0.166	31.98	9.61	41.59	65.14	23.55	QP
5	0.444	14.63	9.61	24.24	46.98	22.74	Average
6	0.444	23.34	9.61	32.95	56.98	24.03	QP
7	1.131	17.39	9.62	27.01	46.00	18.99	Average
8	1.131	24.51	9.62	34.13	56.00	21.87	QP
9	1.589	11.69	9.63	21.32	46.00	24.68	Average
10	1.589	24.08	9.63	33.71	56.00	22.29	QP
11	24.899	12.41	9.76	22.17	50.00	27.83	Average
12	24.899	18.62	9.76	28.38	60.00	31.62	QP

Model: i506W (POE)

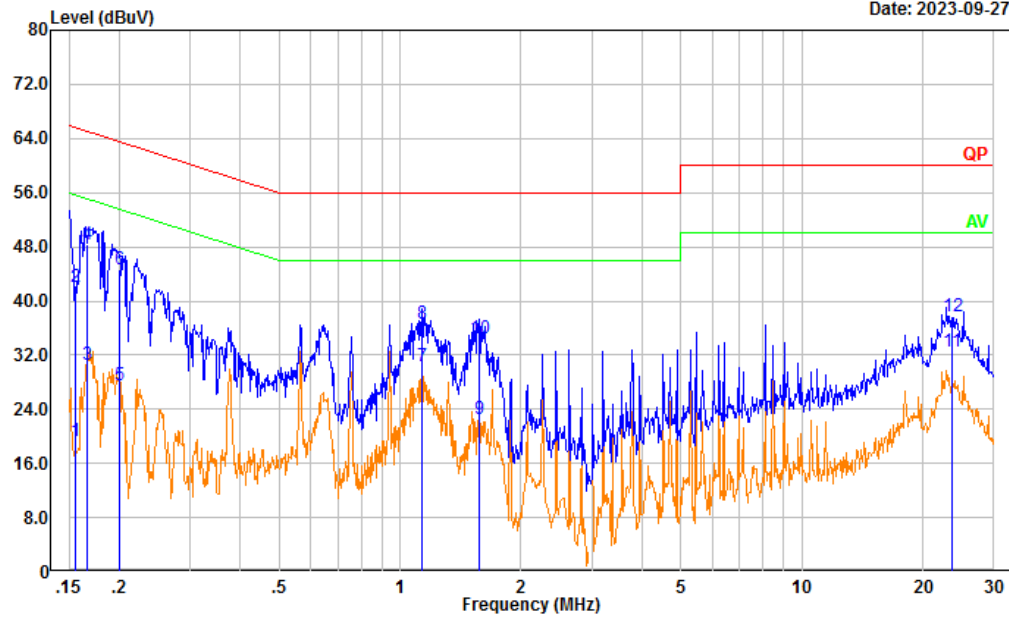
Project No.: CR230951413-RF

Tester: David Huang

Port: Line

Note:

Date: 2023-09-27



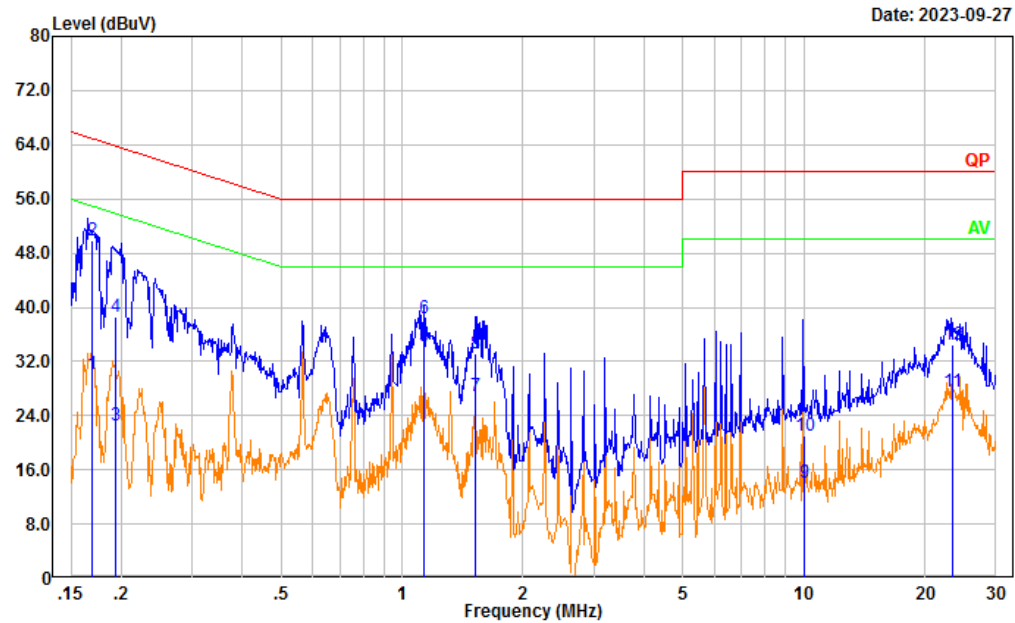
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.155	9.63	9.61	19.24	55.72	36.48	Average
2	0.155	32.42	9.61	42.03	65.72	23.69	QP
3	0.167	20.94	9.61	30.55	55.12	24.57	Average
4	0.167	38.78	9.61	48.39	65.12	16.73	QP
5	0.200	17.83	9.61	27.44	53.62	26.18	Average
6	0.200	35.01	9.61	44.62	63.62	19.00	QP
7	1.133	20.73	9.62	30.35	46.00	15.65	Average
8	1.133	27.10	9.62	36.72	56.00	19.28	QP
9	1.577	13.01	9.63	22.64	46.00	23.36	Average
10	1.577	24.83	9.63	34.46	56.00	21.54	QP
11	23.565	22.78	9.81	32.59	50.00	17.41	Average
12	23.565	27.98	9.81	37.79	60.00	22.21	QP

Project No.: CR230951413-RF

Tester: David Huang

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.170	20.47	9.61	30.08	54.98	24.90	Average
2	0.170	40.15	9.61	49.76	64.98	15.22	QP
3	0.194	12.90	9.61	22.51	53.85	31.34	Average
4	0.194	28.92	9.61	38.53	63.85	25.32	QP
5	1.135	24.62	9.62	34.24	46.00	11.76	Average
6	1.135	28.69	9.62	38.31	56.00	17.69	QP
7	1.516	17.30	9.63	26.93	46.00	19.07	Average
8	1.516	23.54	9.63	33.17	56.00	22.83	QP
9	10.025	4.47	9.67	14.14	50.00	35.86	Average
10	10.025	11.36	9.67	21.03	60.00	38.97	QP
11	23.402	17.72	9.74	27.46	50.00	22.54	Average
12	23.402	24.83	9.74	34.57	60.00	25.43	QP

Model: i504W (Adapter)

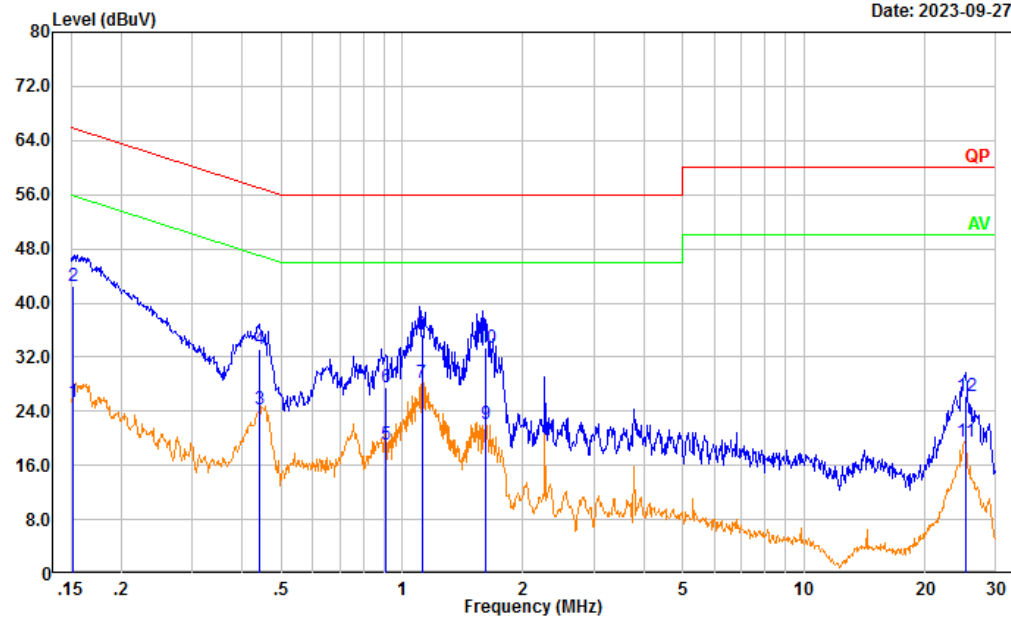
Project No.: CR230951413-RF

Tester: David Huang

Port: Line

Note:

Date: 2023-09-27



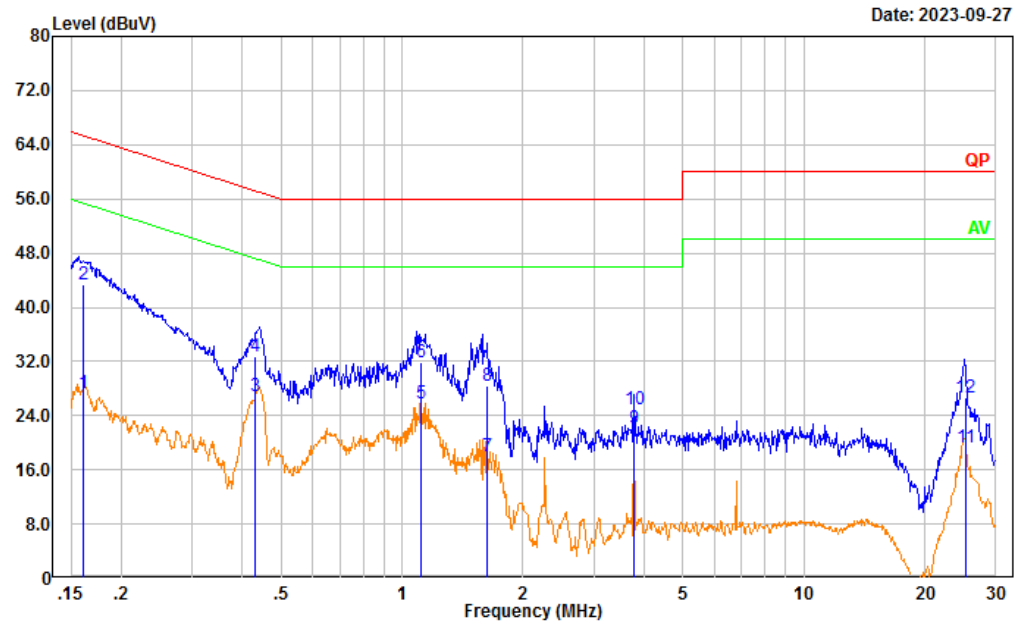
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.151	15.83	9.61	25.44	55.93	30.49	Average
2	0.151	32.89	9.61	42.50	65.93	23.43	QP
3	0.444	14.62	9.61	24.23	46.99	22.76	Average
4	0.444	23.59	9.61	33.20	56.99	23.79	QP
5	0.912	9.55	9.62	19.17	46.00	26.83	Average
6	0.912	17.89	9.62	27.51	56.00	28.49	QP
7	1.120	18.56	9.62	28.18	46.00	17.82	Average
8	1.120	25.67	9.62	35.29	56.00	20.71	QP
9	1.612	12.48	9.63	22.11	46.00	23.89	Average
10	1.612	23.78	9.63	33.41	56.00	22.59	QP
11	25.190	9.74	9.81	19.55	50.00	30.45	Average
12	25.190	16.52	9.81	26.33	60.00	33.67	QP

Project No.: CR230951413-RF

Tester: David Huang

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.161	17.76	9.61	27.37	55.40	28.03	Average
2	0.161	33.86	9.61	43.47	65.40	21.93	QP
3	0.433	17.37	9.61	26.98	47.20	20.22	Average
4	0.433	23.06	9.61	32.67	57.20	24.53	QP
5	1.118	16.08	9.62	25.70	46.00	20.30	Average
6	1.118	22.22	9.62	31.84	56.00	24.16	QP
7	1.622	8.26	9.63	17.89	46.00	28.11	Average
8	1.622	18.82	9.63	28.45	56.00	27.55	QP
9	3.785	12.48	9.65	22.13	46.00	23.87	Average
10	3.785	15.34	9.65	24.99	56.00	31.01	QP
11	25.165	9.63	9.76	19.39	50.00	30.61	Average
12	25.165	16.98	9.76	26.74	60.00	33.26	QP

Model: i504W (POE)

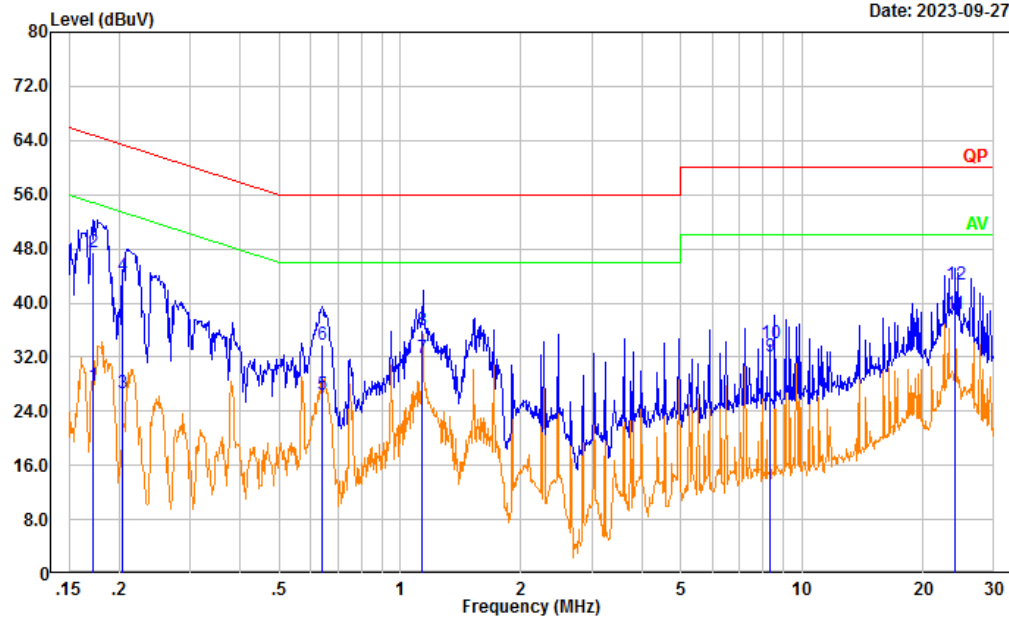
Project No.: CR230951413-RF

Tester: David Huang

Port: Line

Note:

Date: 2023-09-27



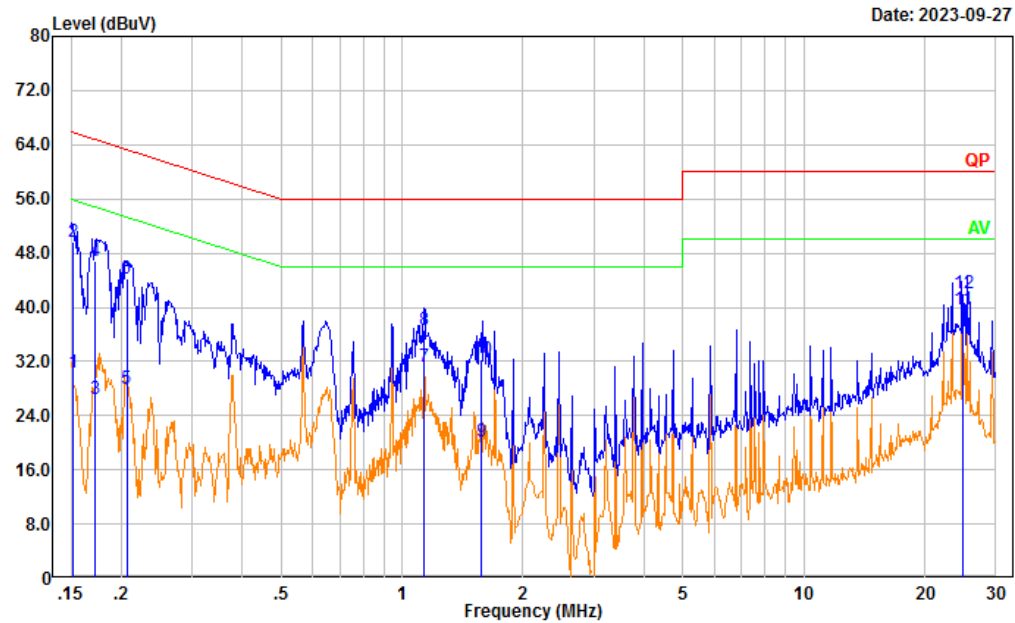
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.172	18.05	9.61	27.66	54.85	27.19	Average
2	0.172	37.83	9.61	47.44	64.85	17.41	QP
3	0.203	17.12	9.61	26.73	53.47	26.74	Average
4	0.203	34.39	9.61	44.00	63.47	19.47	QP
5	0.641	16.89	9.62	26.51	46.00	19.49	Average
6	0.641	24.24	9.62	33.86	56.00	22.14	QP
7	1.136	22.31	9.62	31.93	46.00	14.07	Average
8	1.136	26.35	9.62	35.97	56.00	20.03	QP
9	8.327	22.50	9.67	32.17	50.00	17.83	Average
10	8.327	24.31	9.67	33.98	60.00	26.02	QP
11	24.040	28.49	9.81	38.30	50.00	11.70	Average
12	24.040	32.80	9.81	42.61	60.00	17.39	QP

Project No.: CR230951413-RF

Tester: David Huang

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	20.78	9.61	30.39	55.93	25.54	Average
2	0.151	40.00	9.61	49.61	65.93	16.32	QP
3	0.172	16.78	9.61	26.39	54.88	28.49	Average
4	0.172	37.19	9.61	46.80	64.88	18.08	QP
5	0.206	18.42	9.61	28.03	53.35	25.32	Average
6	0.206	34.52	9.61	44.13	63.35	19.22	QP
7	1.132	21.64	9.62	31.26	46.00	14.74	Average
8	1.132	27.01	9.62	36.63	56.00	19.37	QP
9	1.577	10.58	9.63	20.21	46.00	25.79	Average
10	1.577	22.60	9.63	32.23	56.00	23.77	QP
11	24.760	29.82	9.76	39.58	50.00	10.42	Average
12	24.760	32.31	9.76	42.07	60.00	17.93	QP

Model: Y504W-Y (Adapter)

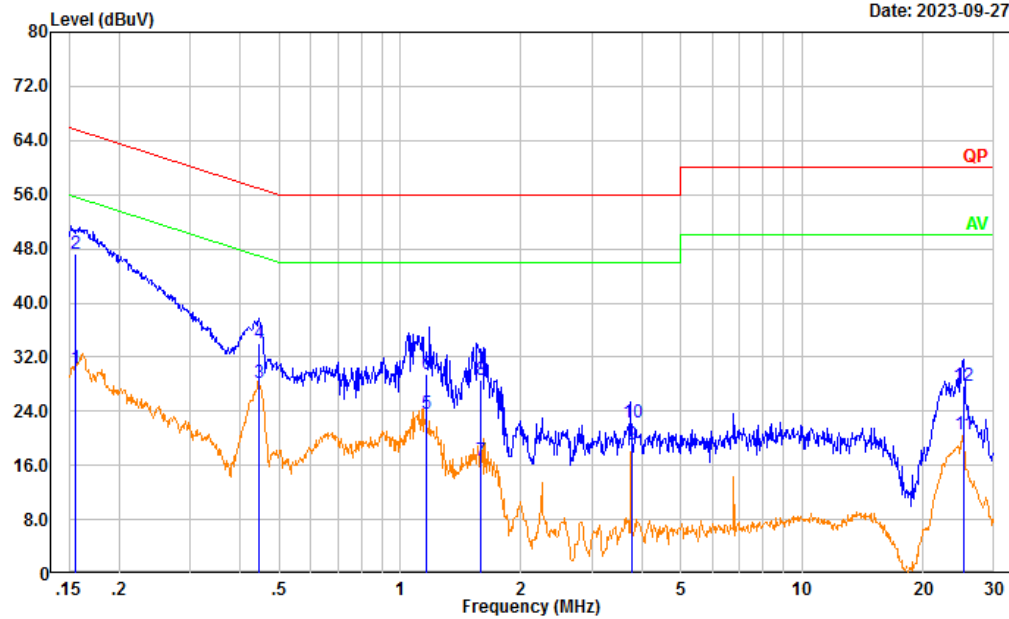
Project No.: CR230951413-RF

Tester: David Huang

Port: Line

Note:

Date: 2023-09-27



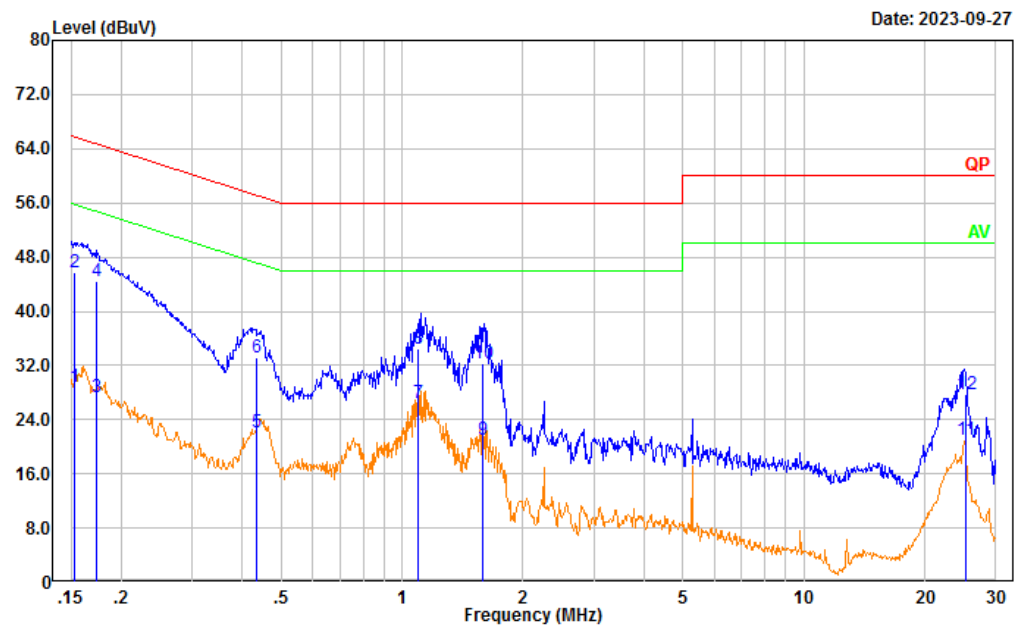
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.155	20.67	9.61	30.28	55.70	25.42	Average
2	0.155	37.71	9.61	47.32	65.70	18.38	QP
3	0.445	18.49	9.61	28.10	46.97	18.87	Average
4	0.445	24.48	9.61	34.09	56.97	22.88	QP
5	1.167	13.97	9.62	23.59	46.00	22.41	Average
6	1.167	19.92	9.62	29.54	56.00	26.46	QP
7	1.585	7.14	9.63	16.77	46.00	29.23	Average
8	1.585	19.06	9.63	28.69	56.00	27.31	QP
9	3.768	9.47	9.65	19.12	46.00	26.88	Average
10	3.768	12.78	9.65	22.43	56.00	33.57	QP
11	25.176	10.86	9.81	20.67	50.00	29.33	Average
12	25.176	17.97	9.81	27.78	60.00	32.22	QP

Project No.: CR230951413-RF

Tester: David Huang

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.153	19.16	9.61	28.77	55.84	27.07	Average
2	0.153	36.14	9.61	45.75	65.84	20.09	QP
3	0.173	17.62	9.61	27.23	54.80	27.57	Average
4	0.173	34.92	9.61	44.53	64.80	20.27	QP
5	0.435	12.53	9.61	22.14	47.15	25.01	Average
6	0.435	23.50	9.61	33.11	57.15	24.04	QP
7	1.097	16.75	9.62	26.37	46.00	19.63	Average
8	1.097	24.85	9.62	34.47	56.00	21.53	QP
9	1.589	11.38	9.63	21.01	46.00	24.99	Average
10	1.589	22.65	9.63	32.28	56.00	23.72	QP
11	25.221	11.21	9.76	20.97	50.00	29.03	Average
12	25.221	18.08	9.76	27.84	60.00	32.16	QP

Model: Y504W-Y (POE)

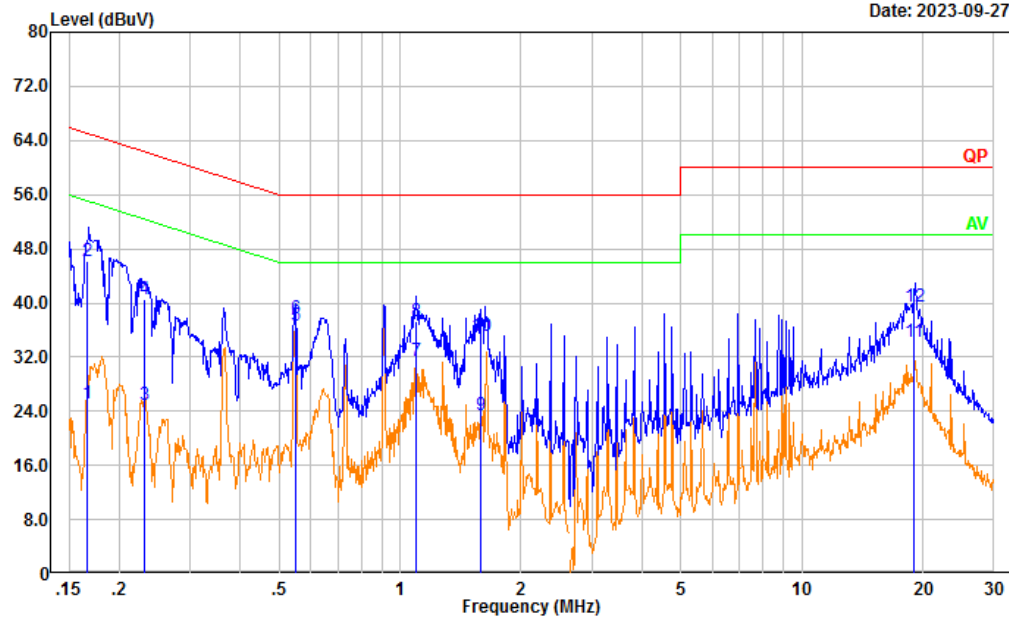
Project No.: CR230951413-RF

Tester: David Huang

Port: Line

Note:

Date: 2023-09-27



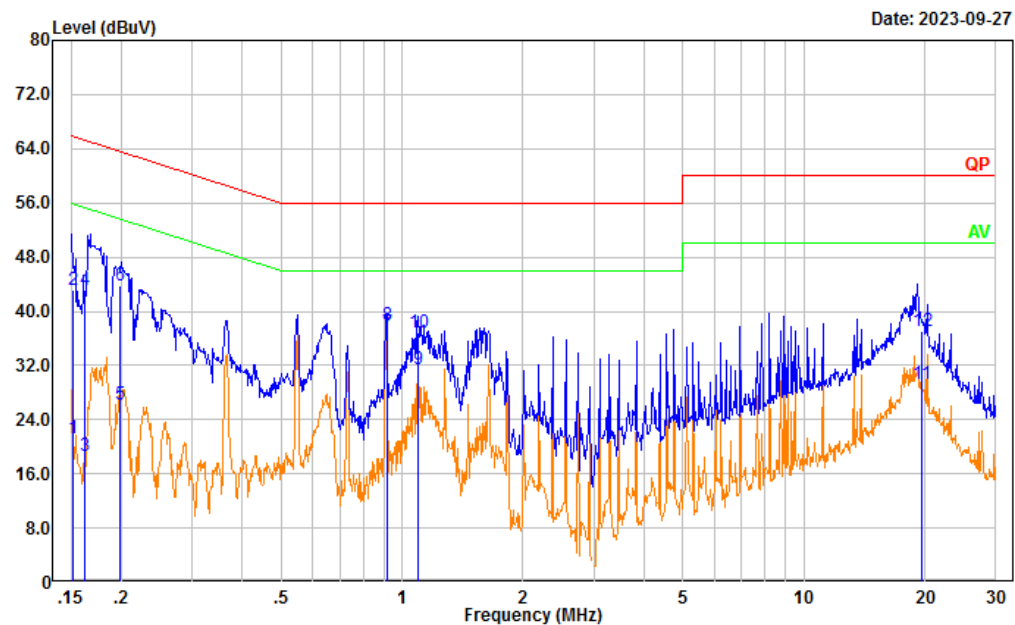
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.166	15.64	9.61	25.25	55.15	29.90	Average
2	0.166	36.54	9.61	46.15	65.15	19.00	QP
3	0.230	15.30	9.61	24.91	52.43	27.52	Average
4	0.230	30.96	9.61	40.57	62.43	21.86	QP
5	0.549	26.99	9.61	36.60	46.00	9.40	Average
6	0.549	28.11	9.61	37.72	56.00	18.28	QP
7	1.098	21.92	9.62	31.54	46.00	14.46	Average
8	1.098	27.63	9.62	37.25	56.00	18.75	QP
9	1.590	13.82	9.63	23.45	46.00	22.55	Average
10	1.590	25.40	9.63	35.03	56.00	20.97	QP
11	19.006	24.58	9.77	34.35	50.00	15.65	Average
12	19.006	29.58	9.77	39.35	60.00	20.65	QP

Project No.: CR230951413-RF

Tester: David Huang

Port: neutral

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	11.61	9.61	21.22	55.92	34.70	Average
2	0.151	33.64	9.61	43.25	65.92	22.67	QP
3	0.163	8.98	9.61	18.59	55.32	36.73	Average
4	0.163	33.45	9.61	43.06	65.32	22.26	QP
5	0.198	16.55	9.61	26.16	53.68	27.52	Average
6	0.198	34.13	9.61	43.74	63.68	19.94	QP
7	0.916	27.27	9.62	36.89	46.00	9.11	Average
8	0.916	28.30	9.62	37.92	56.00	18.08	QP
9	1.095	21.89	9.62	31.51	46.00	14.49	Average
10	1.095	27.25	9.62	36.87	56.00	19.13	QP
11	19.585	19.53	9.70	29.23	50.00	20.77	Average
12	19.585	27.35	9.70	37.05	60.00	22.95	QP

4.2 Radiation Spurious Emissions

Serial Number:	2ATU-1,2ATU-3,2ATU-4	Test Date:	2023/10/18~2023/10/19 for below 1GHz 2023/10/04 for above 1GHz
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.2-26.9	Relative Humidity: (%)	53-63	ATM Pressure: (kPa)	100.4-101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2025/2/23
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12

* 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:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

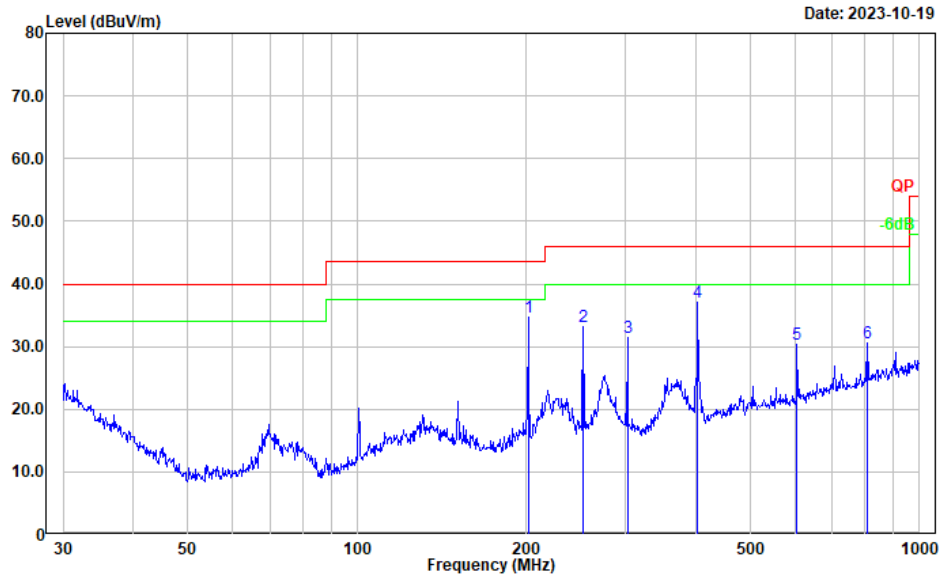
1) 30MHz-1GHz: (Transmitting maximum output power mode (802.11n ht40 channel))

Model: i506W (Adapter)

Low channel

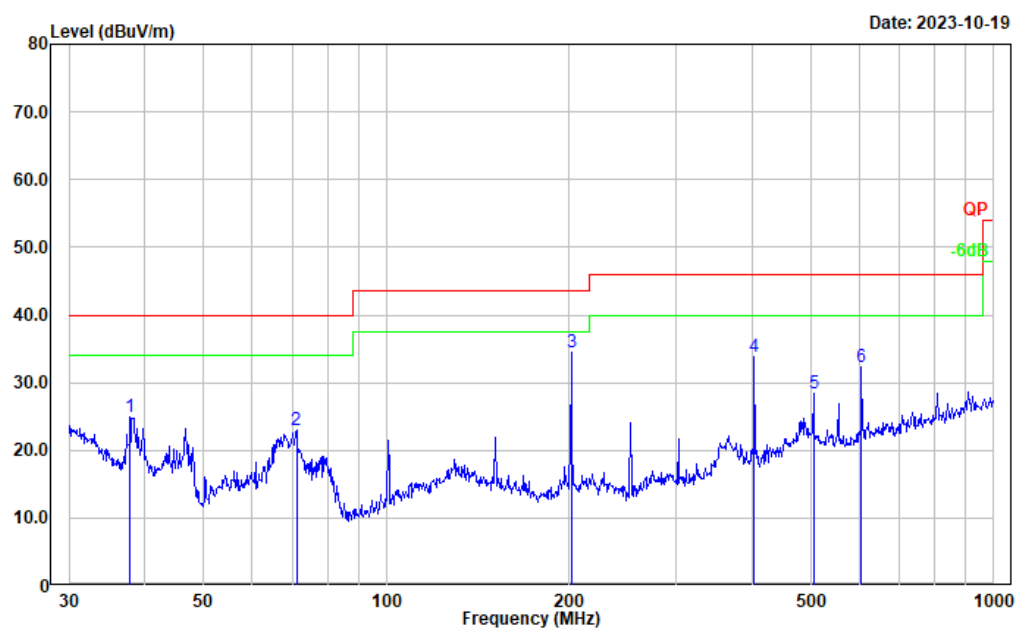
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:

Date: 2023-10-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	201.393	47.03	-12.25	34.78	43.50	8.72	Peak
2	252.063	46.22	-13.08	33.14	46.00	12.86	Peak
3	302.481	41.95	-10.61	31.34	46.00	14.66	Peak
4	403.250	45.79	-8.67	37.12	46.00	8.88	Peak
5	605.659	35.26	-4.85	30.41	46.00	15.59	Peak
6	807.429	32.67	-2.06	30.61	46.00	15.39	Peak

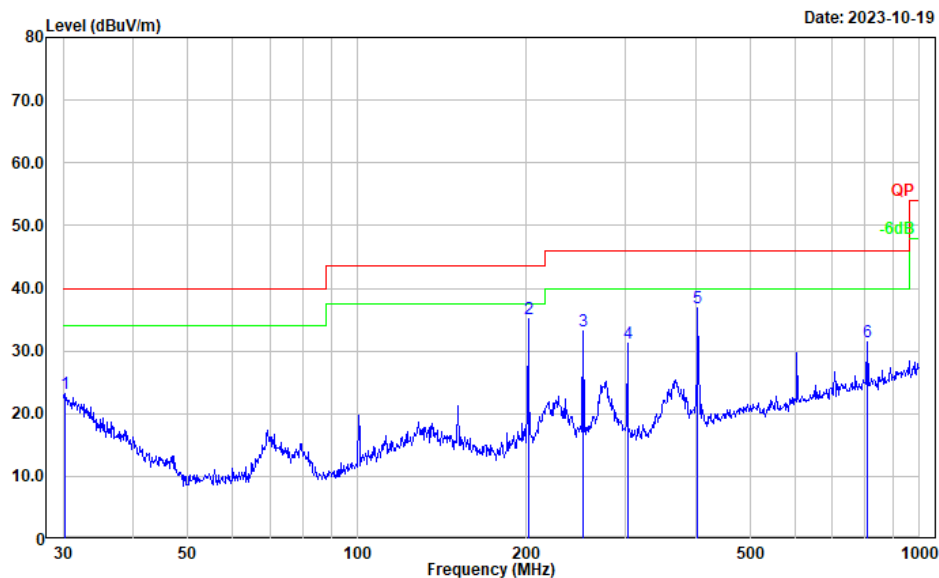
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	37.812	34.61	-9.72	24.89	40.00	15.11	Peak
2	71.080	39.70	-16.68	23.02	40.00	16.98	Peak
3	201.393	46.80	-12.25	34.55	43.50	8.95	Peak
4	403.250	42.57	-8.67	33.90	46.00	12.10	Peak
5	504.706	34.27	-5.93	28.34	46.00	17.66	Peak
6	605.659	37.19	-4.85	32.34	46.00	13.66	Peak

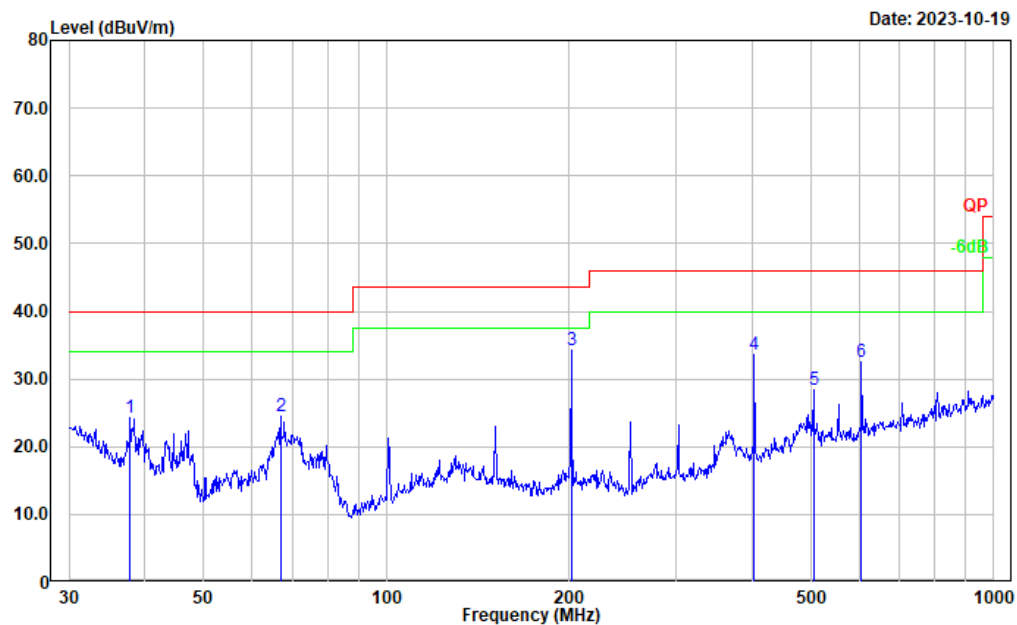
Middle Channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.18	-3.96	23.22	40.00	16.78	Peak
2	201.393	47.37	-12.25	35.12	43.50	8.38	Peak
3	252.063	46.25	-13.08	33.17	46.00	12.83	Peak
4	302.481	41.92	-10.61	31.31	46.00	14.69	Peak
5	403.250	45.63	-8.67	36.96	46.00	9.04	Peak
6	807.429	33.40	-2.06	31.34	46.00	14.66	Peak

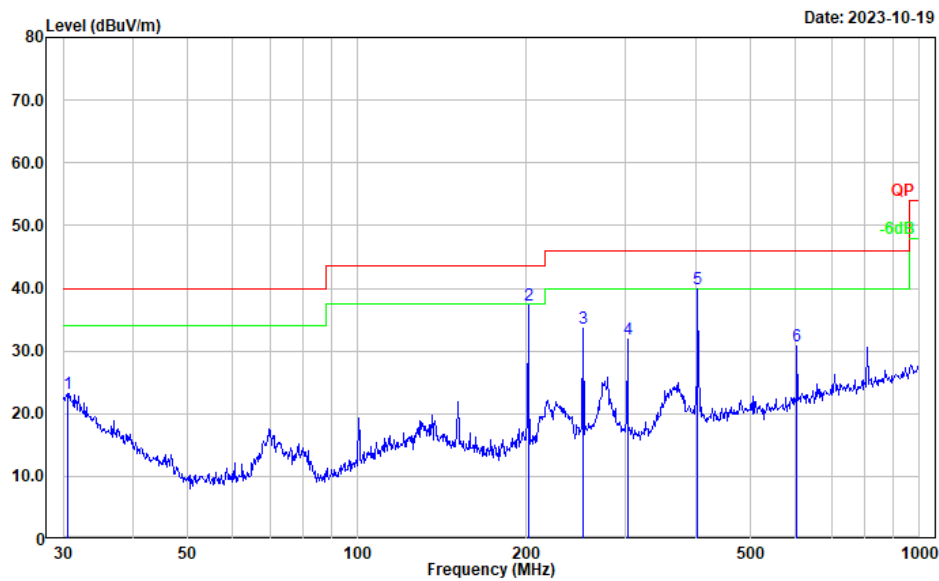
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	37.812	34.02	-9.72	24.30	40.00	15.70	Peak
2	66.967	41.31	-16.80	24.51	40.00	15.49	Peak
3	201.393	46.49	-12.25	34.24	43.50	9.26	Peak
4	403.250	42.27	-8.67	33.60	46.00	12.40	Peak
5	504.706	34.38	-5.93	28.45	46.00	17.55	Peak
6	605.659	37.44	-4.85	32.59	46.00	13.41	Peak

High channel

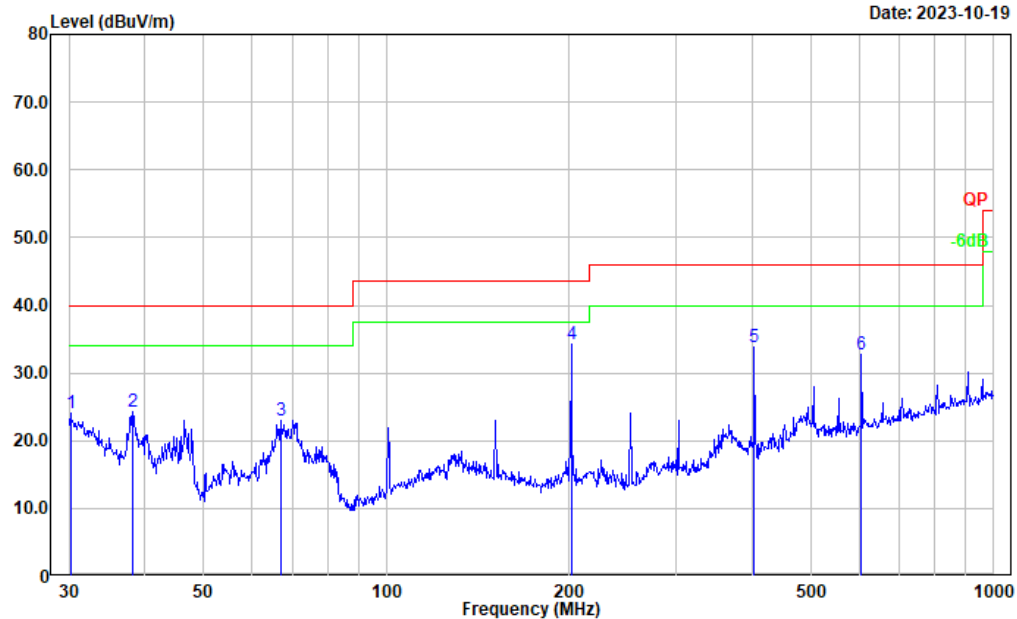
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.50	-4.20	23.30	40.00	16.70	Peak
2	201.393	49.53	-12.25	37.28	43.50	6.22	Peak
3	252.063	46.70	-13.08	33.62	46.00	12.38	Peak
4	302.481	42.39	-10.61	31.78	46.00	14.22	Peak
5	403.250	48.46	-8.67	39.79	46.00	6.21	Peak
6	605.659	35.66	-4.85	30.81	46.00	15.19	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:

Date: 2023-10-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.94	-3.96	23.98	40.00	16.02	Peak
2	38.212	34.23	-10.02	24.21	40.00	15.79	Peak
3	66.967	39.69	-16.80	22.89	40.00	17.11	Peak
4	201.393	46.50	-12.25	34.25	43.50	9.25	Peak
5	403.250	42.46	-8.67	33.79	46.00	12.21	Peak
6	605.659	37.59	-4.85	32.74	46.00	13.26	Peak

Model: i506W (POE)

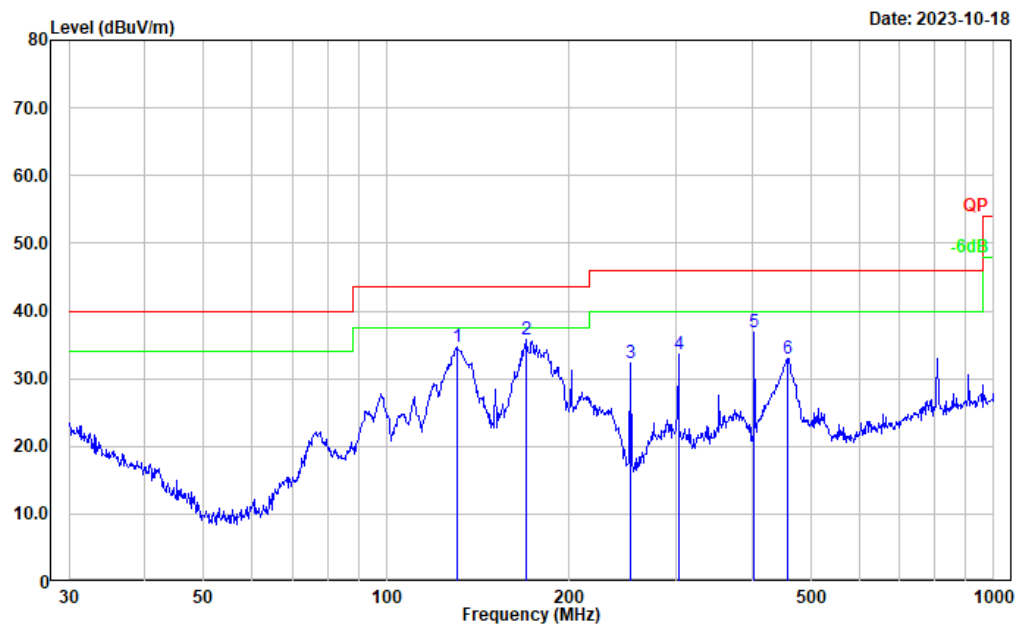
Low channel

Project No.: CR230951413-RF

Tester: Carl Xue

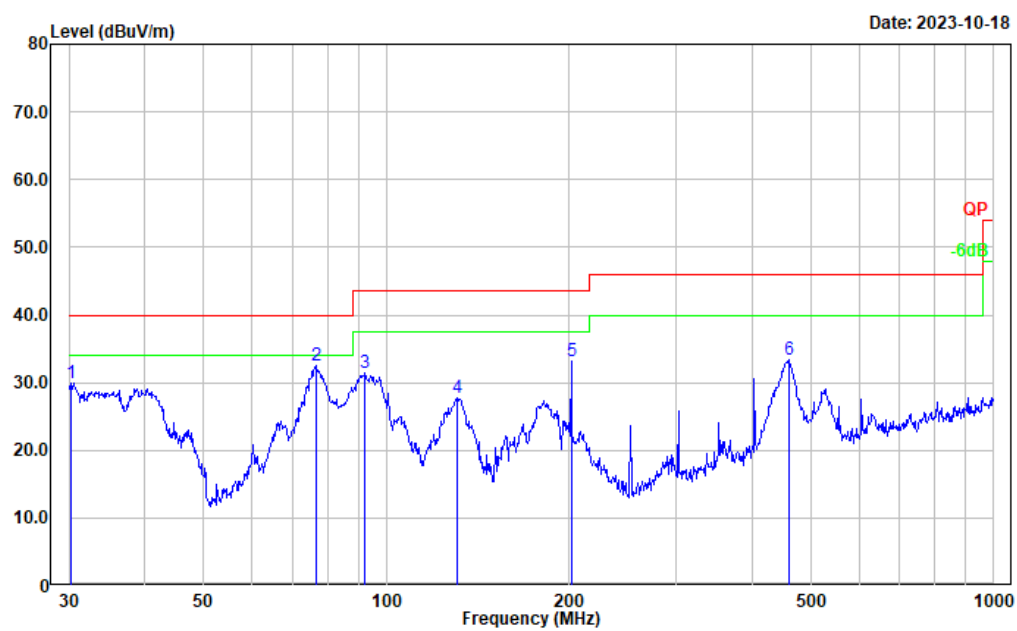
Polarization: horizontal

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	130.837	46.05	-11.32	34.73	43.50	8.77	Peak
2	170.195	48.66	-12.86	35.80	43.50	7.70	Peak
3	252.063	45.49	-13.08	32.41	46.00	13.59	Peak
4	302.481	44.30	-10.61	33.69	46.00	12.31	Peak
5	403.250	45.59	-8.67	36.92	46.00	9.08	Peak
6	457.507	39.64	-6.73	32.91	46.00	13.09	Peak

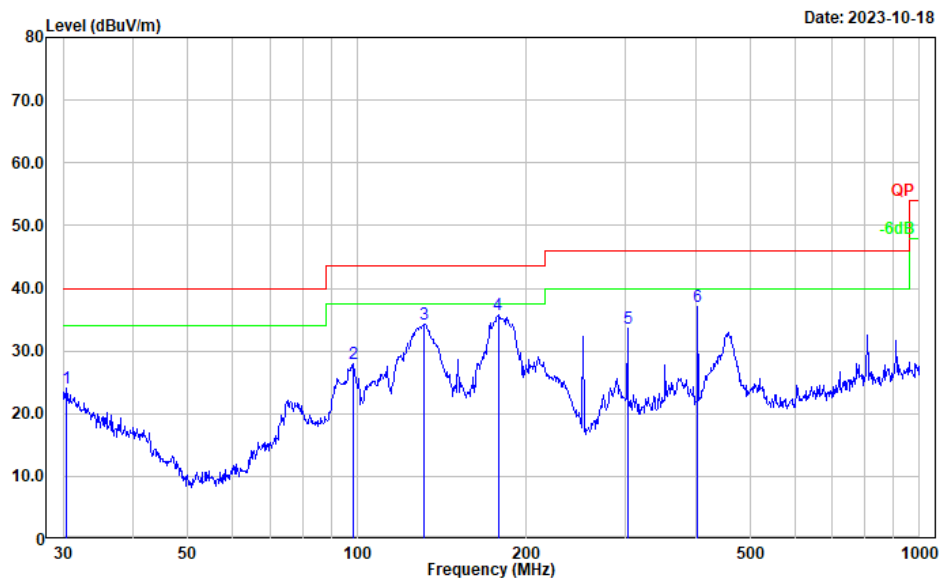
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	33.92	-4.04	29.88	40.00	10.12	Peak
2	76.512	49.57	-17.13	32.44	40.00	7.56	Peak
3	92.139	47.84	-16.41	31.43	43.50	12.07	Peak
4	130.837	39.02	-11.32	27.70	43.50	15.80	Peak
5	201.393	45.31	-12.25	33.06	43.50	10.44	Peak
6	459.114	39.99	-6.70	33.29	46.00	12.71	Peak

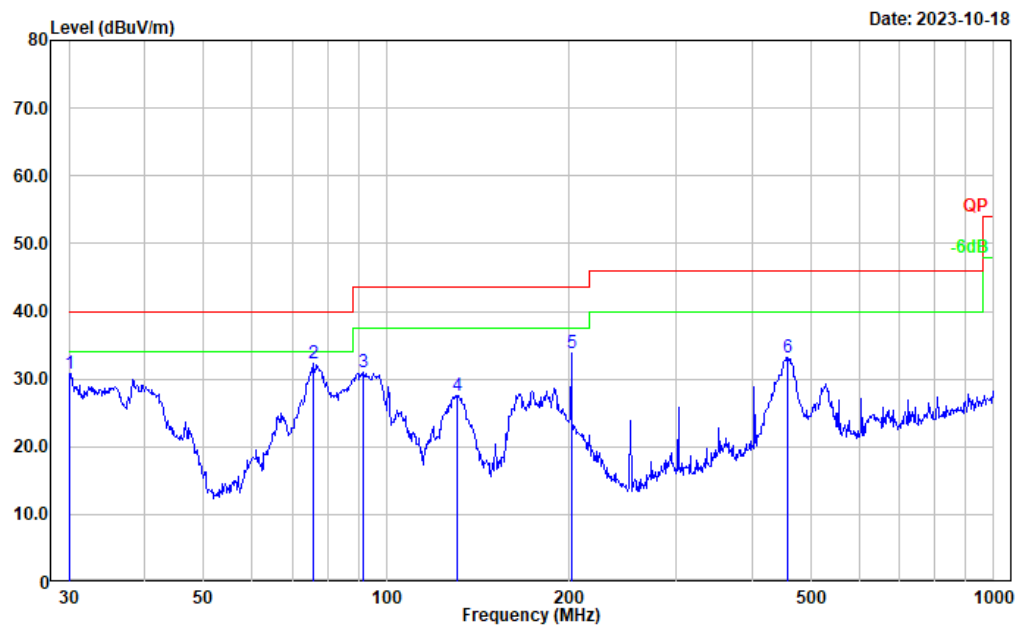
Middle Channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	28.15	-4.13	24.02	40.00	15.98	Peak
2	98.487	42.67	-14.66	28.01	43.50	15.49	Peak
3	131.297	45.61	-11.34	34.27	43.50	9.23	Peak
4	178.133	49.21	-13.40	35.81	43.50	7.69	Peak
5	302.481	44.14	-10.61	33.53	46.00	12.47	Peak
6	403.250	45.75	-8.67	37.08	46.00	8.92	Peak

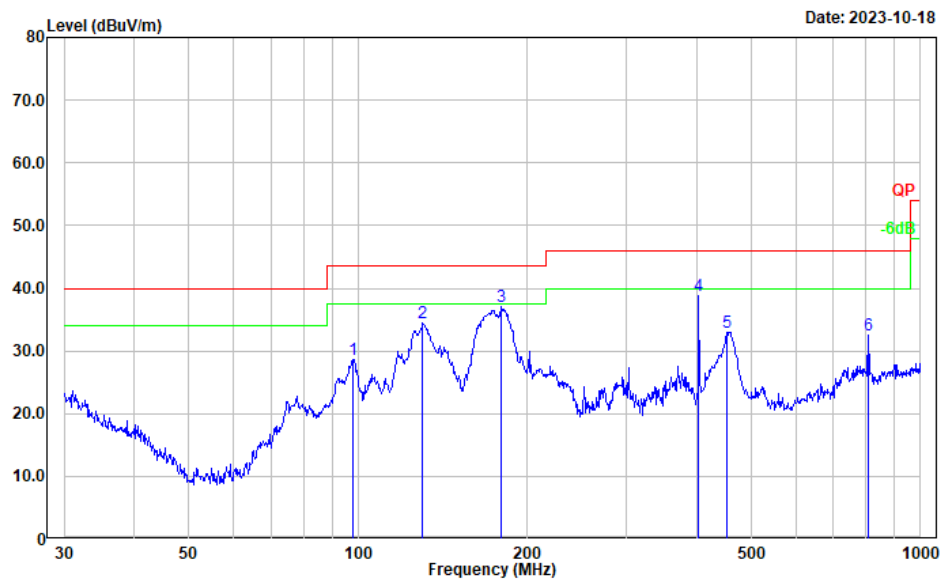
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	34.61	-3.88	30.73	40.00	9.27	Peak
2	75.977	49.34	-17.06	32.28	40.00	7.72	Peak
3	91.495	47.59	-16.57	31.02	43.50	12.48	Peak
4	130.837	38.93	-11.32	27.61	43.50	15.89	Peak
5	201.393	46.02	-12.25	33.77	43.50	9.73	Peak
6	457.507	40.01	-6.73	33.28	46.00	12.72	Peak

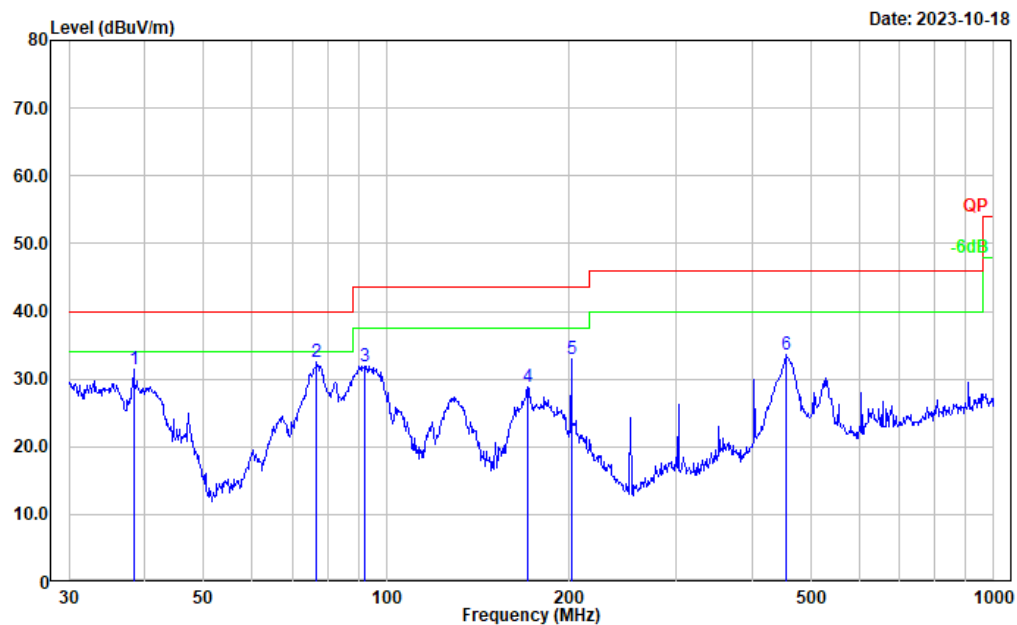
High channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	98.142	43.47	-14.75	28.72	43.50	14.78	Peak
2	130.379	45.74	-11.31	34.43	43.50	9.07	Peak
3	180.017	50.69	-13.53	37.16	43.50	6.34	Peak
4	403.250	47.46	-8.67	38.79	46.00	7.21	Peak
5	452.720	39.90	-6.85	33.05	46.00	12.95	Peak
6	807.429	34.59	-2.06	32.53	46.00	13.47	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.346	41.45	-10.12	31.33	40.00	8.67	Peak
2	76.781	49.62	-17.15	32.47	40.00	7.53	Peak
3	92.139	48.37	-16.41	31.96	43.50	11.54	Peak
4	170.793	41.77	-12.90	28.87	43.50	14.63	Peak
5	201.393	45.17	-12.25	32.92	43.50	10.58	Peak
6	454.310	40.47	-6.80	33.67	46.00	12.33	Peak

Model: i504W (Adapter)

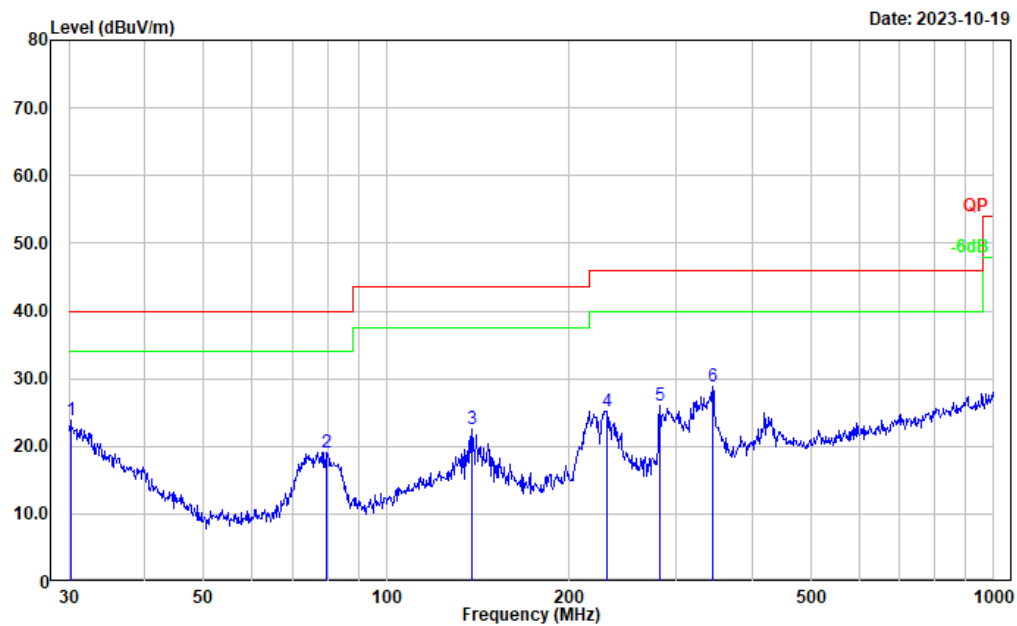
Low channel

Project No.: CR230951413-RF

Tester: Carl Xue

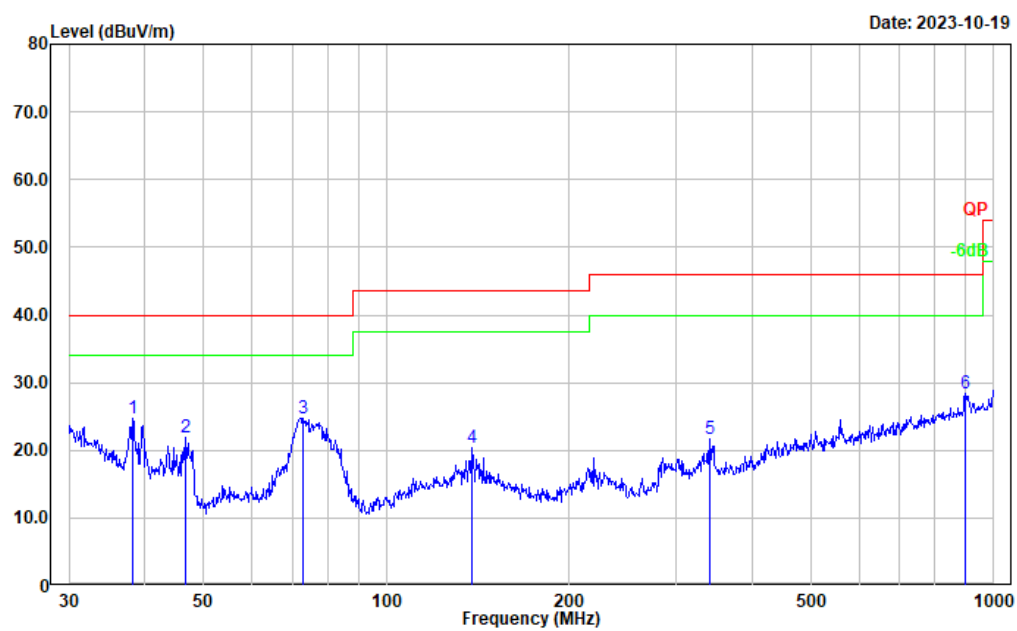
Polarization: horizontal

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.83	-3.96	23.87	40.00	16.13	Peak
2	79.521	36.60	-17.42	19.18	40.00	20.82	Peak
3	137.903	34.35	-11.72	22.63	43.50	20.87	Peak
4	230.907	38.24	-13.07	25.17	46.00	20.83	Peak
5	281.995	37.63	-11.56	26.07	46.00	19.93	Peak
6	344.386	38.93	-10.04	28.89	46.00	17.11	Peak

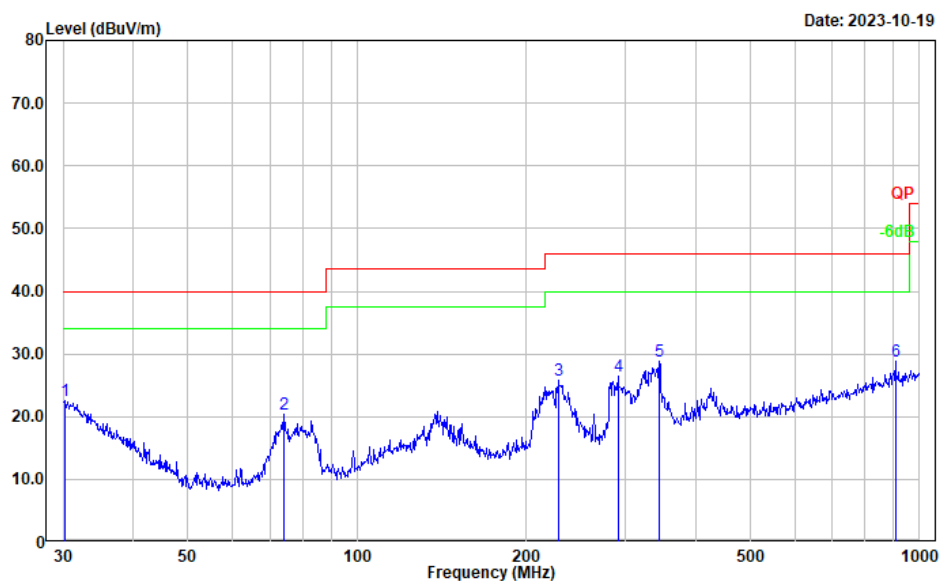
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.212	34.63	-10.02	24.61	40.00	15.39	Peak
2	46.666	37.11	-15.20	21.91	40.00	18.09	Peak
3	72.847	41.57	-16.80	24.77	40.00	15.23	Peak
4	137.903	32.14	-11.72	20.42	43.50	23.08	Peak
5	340.782	31.72	-10.05	21.67	46.00	24.33	Peak
6	896.997	29.26	-0.95	28.31	46.00	17.69	Peak

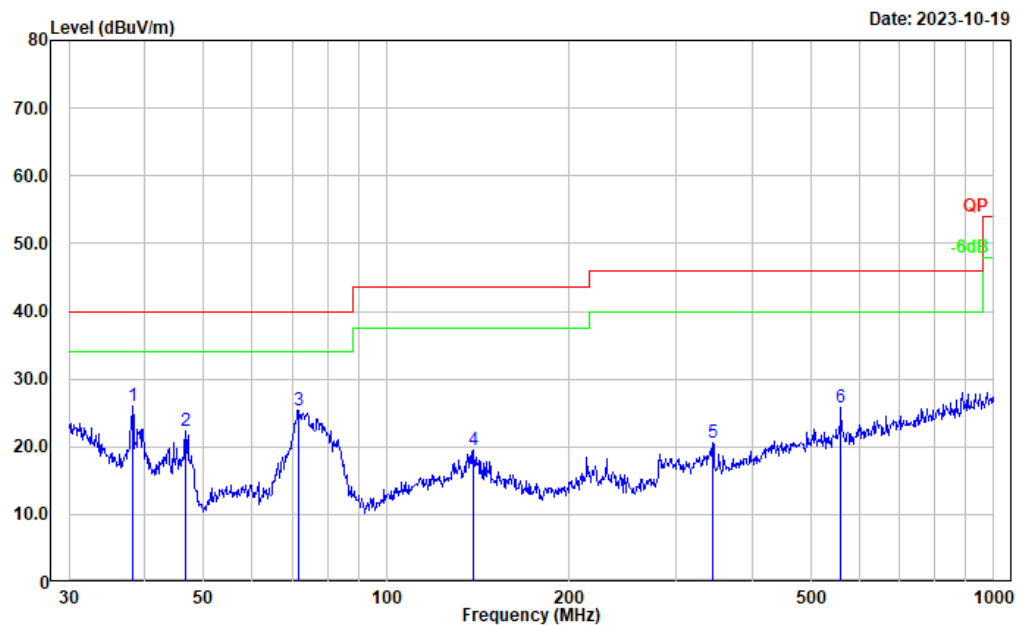
Middle Channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	26.61	-4.04	22.57	40.00	17.43	Peak
2	74.135	37.42	-16.96	20.46	40.00	19.54	Peak
3	227.691	38.82	-12.98	25.84	46.00	20.16	Peak
4	291.036	37.41	-11.00	26.41	46.00	19.59	Peak
5	344.386	38.88	-10.04	28.84	46.00	17.16	Peak
6	906.482	29.59	-0.72	28.87	46.00	17.13	Peak

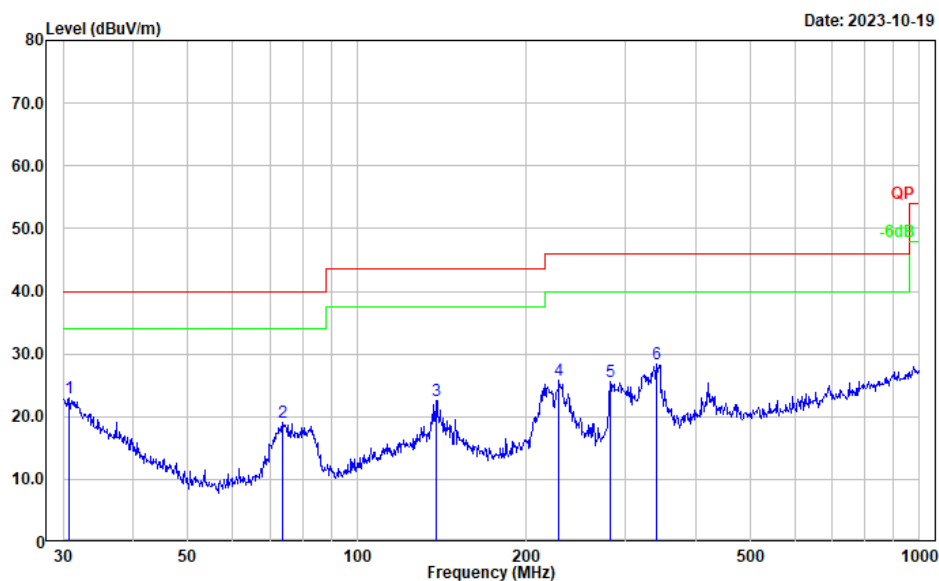
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.212	36.06	-10.02	26.04	40.00	13.96	Peak
2	46.666	37.50	-15.20	22.30	40.00	17.70	Peak
3	71.832	42.07	-16.74	25.33	40.00	14.67	Peak
4	138.874	31.25	-11.71	19.54	43.50	23.96	Peak
5	344.386	30.71	-10.04	20.67	46.00	25.33	Peak
6	560.693	31.34	-5.64	25.70	46.00	20.30	Peak

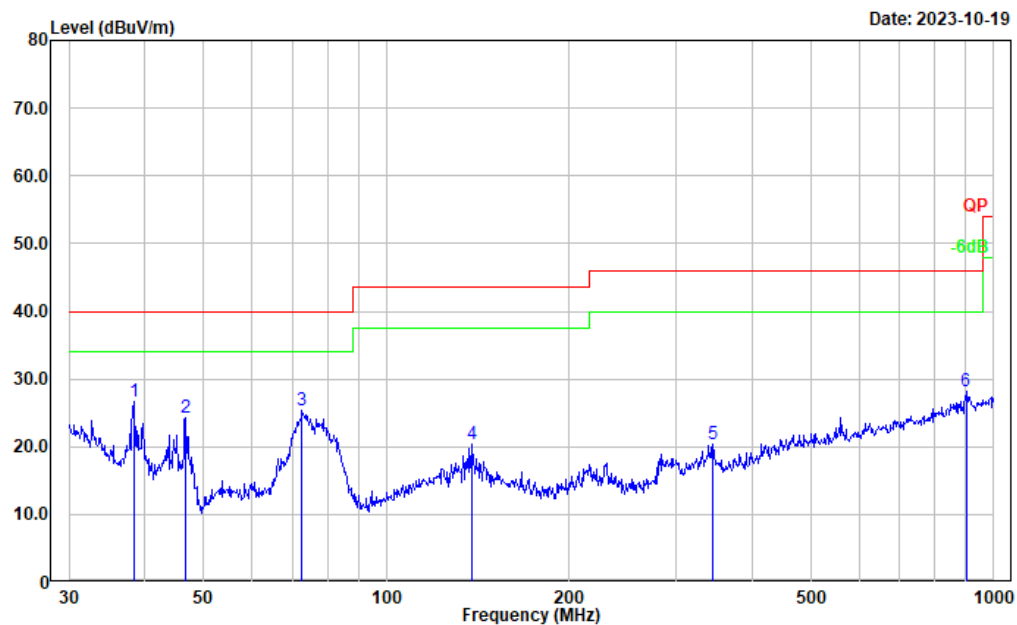
High channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.745	27.42	-4.36	23.06	40.00	16.94	Peak
2	73.876	35.96	-16.94	19.02	40.00	20.98	Peak
3	137.903	34.33	-11.72	22.61	43.50	20.89	Peak
4	228.490	38.81	-13.01	25.80	46.00	20.20	Peak
5	281.995	37.21	-11.56	25.65	46.00	20.35	Peak
6	340.782	38.41	-10.05	28.36	46.00	17.64	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.346	36.88	-10.12	26.76	40.00	13.24	Peak
2	46.666	39.47	-15.20	24.27	40.00	15.73	Peak
3	72.592	42.25	-16.78	25.47	40.00	14.53	Peak
4	137.903	32.11	-11.72	20.39	43.50	23.11	Peak
5	344.386	30.48	-10.04	20.44	46.00	25.56	Peak
6	900.147	29.05	-0.86	28.19	46.00	17.81	Peak

Model: i504W (POE)

Low channel

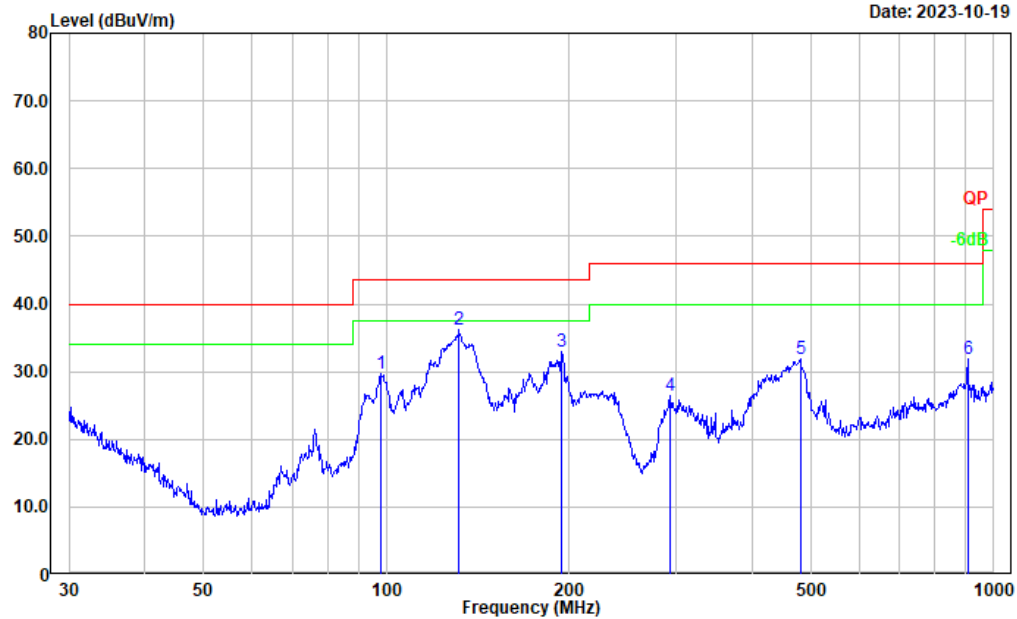
Project No.: CR230951413-RF

Tester: Carl Xue

Polarization: horizontal

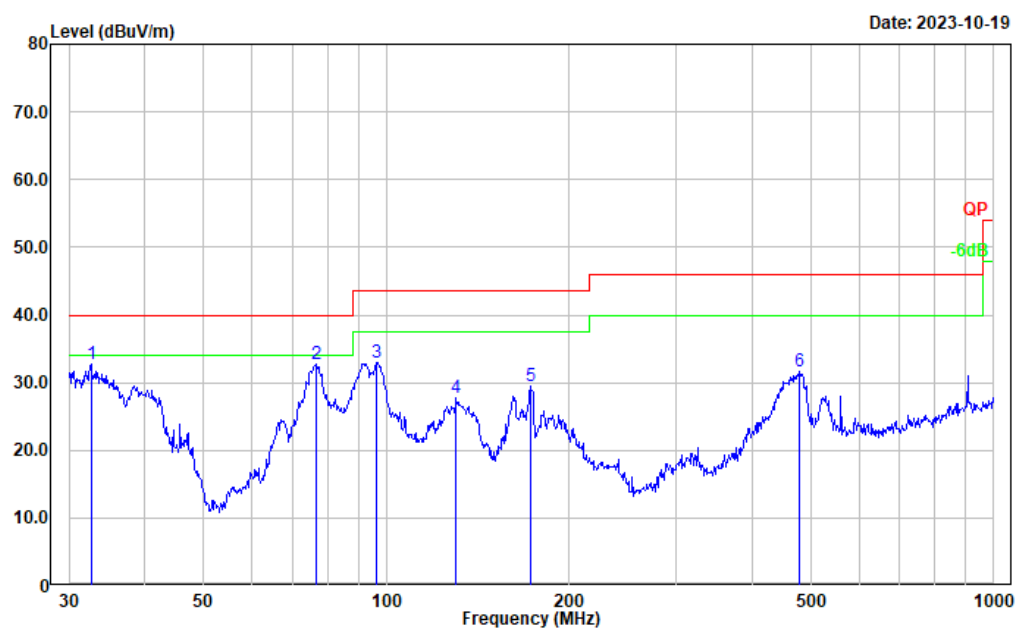
Note:

Date: 2023-10-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	98.142	44.54	-14.75	29.79	43.50	13.71	Peak
2	131.758	47.60	-11.37	36.23	43.50	7.27	Peak
3	194.453	45.92	-12.87	33.05	43.50	10.45	Peak
4	293.084	37.41	-10.88	26.53	46.00	19.47	Peak
5	480.528	38.15	-6.25	31.90	46.00	14.10	Peak
6	906.482	32.56	-0.72	31.84	46.00	14.16	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:

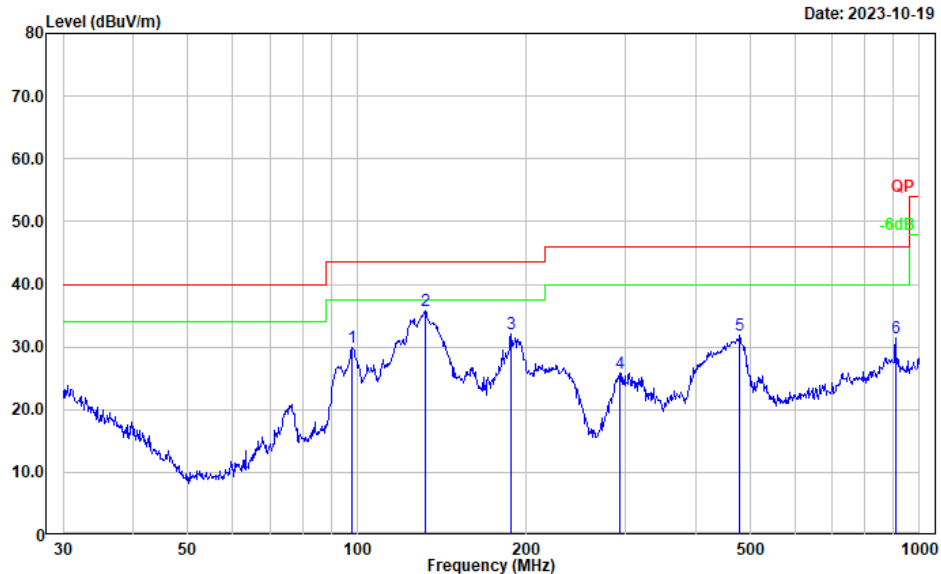


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.634	38.47	-5.80	32.67	40.00	7.33	Peak
2	76.781	49.97	-17.15	32.82	40.00	7.18	Peak
3	96.436	48.20	-15.23	32.97	43.50	10.53	Peak
4	130.379	39.10	-11.31	27.79	43.50	15.71	Peak
5	172.599	42.54	-12.98	29.56	43.50	13.94	Peak
6	478.846	37.91	-6.26	31.65	46.00	14.35	Peak

Middle Channel

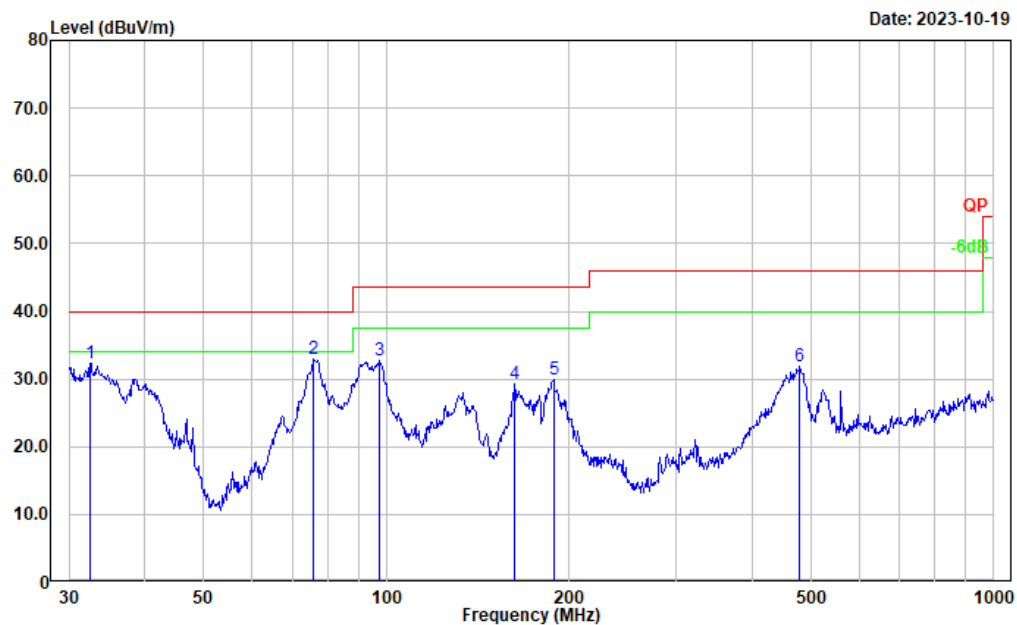
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:

Date: 2023-10-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	97.798	44.82	-14.85	29.97	43.50	13.53	Peak
2	132.221	47.07	-11.40	35.67	43.50	7.83	Peak
3	187.753	45.55	-13.51	32.04	43.50	11.46	Peak
4	293.084	36.74	-10.88	25.86	46.00	20.14	Peak
5	478.846	38.07	-6.26	31.81	46.00	14.19	Peak
6	906.482	32.22	-0.72	31.50	46.00	14.50	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:

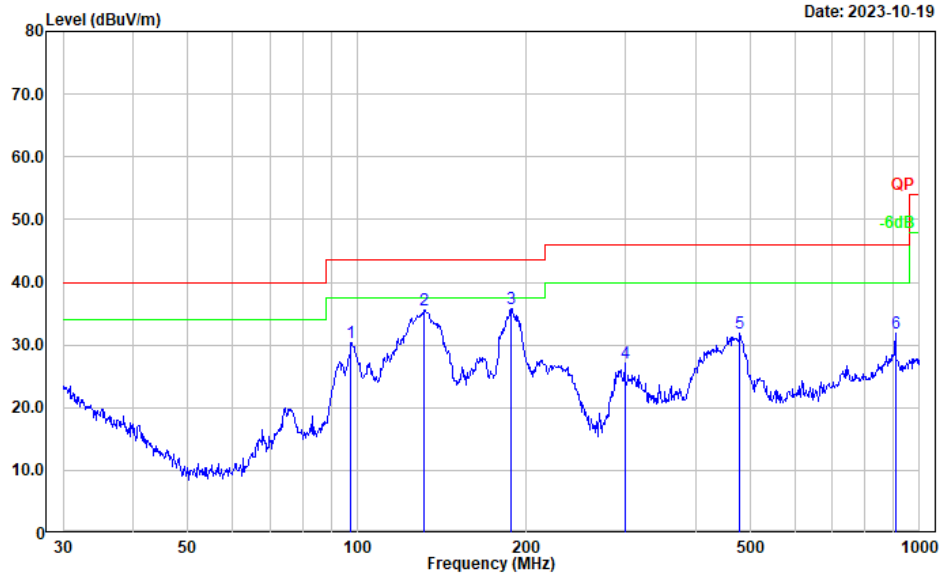


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	32.520	38.08	-5.71	32.37	40.00	7.63	Peak
2	75.977	49.92	-17.06	32.86	40.00	7.14	Peak
3	97.456	47.73	-14.94	32.79	43.50	10.71	Peak
4	162.611	41.54	-12.21	29.33	43.50	14.17	Peak
5	188.413	43.45	-13.49	29.96	43.50	13.54	Peak
6	478.846	38.20	-6.26	31.94	46.00	14.06	Peak

High channel

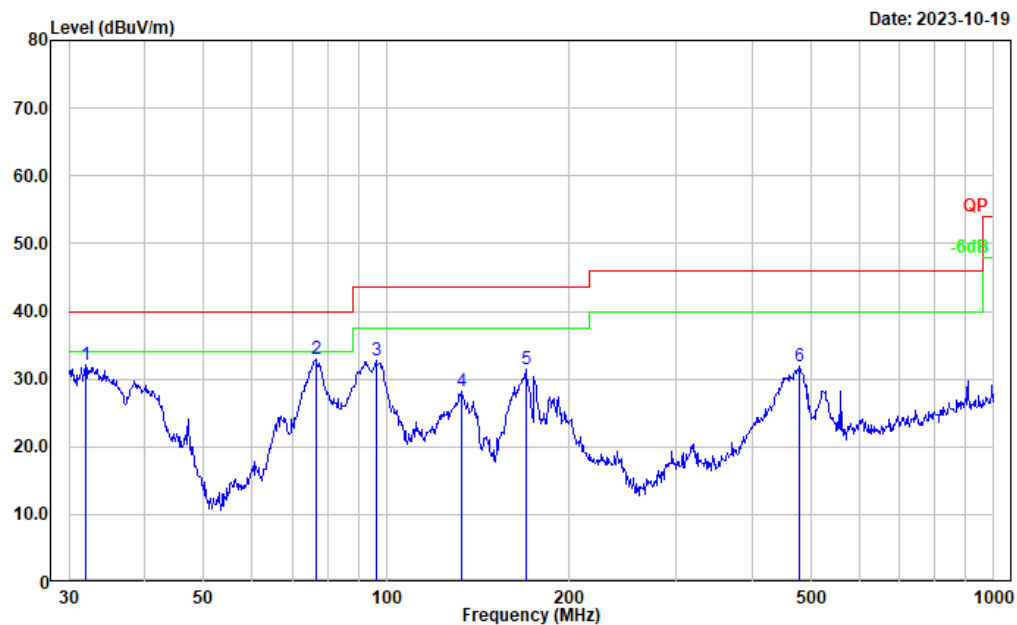
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:

Date: 2023-10-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	97.456	45.34	-14.94	30.40	43.50	13.10	Peak
2	131.297	46.88	-11.34	35.54	43.50	7.96	Peak
3	187.753	49.32	-13.51	35.81	43.50	7.69	Peak
4	299.316	37.66	-10.65	27.01	46.00	18.99	Peak
5	478.846	38.04	-6.26	31.78	46.00	14.22	Peak
6	906.482	32.49	-0.72	31.77	46.00	14.23	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.955	37.37	-5.27	32.10	40.00	7.90	Peak
2	76.512	50.05	-17.13	32.92	40.00	7.08	Peak
3	96.099	48.12	-15.31	32.81	43.50	10.69	Peak
4	132.685	39.64	-11.45	28.19	43.50	15.31	Peak
5	169.599	44.24	-12.82	31.42	43.50	12.08	Peak
6	478.846	38.16	-6.26	31.90	46.00	14.10	Peak

Model: Y504W-Y (Adapter)

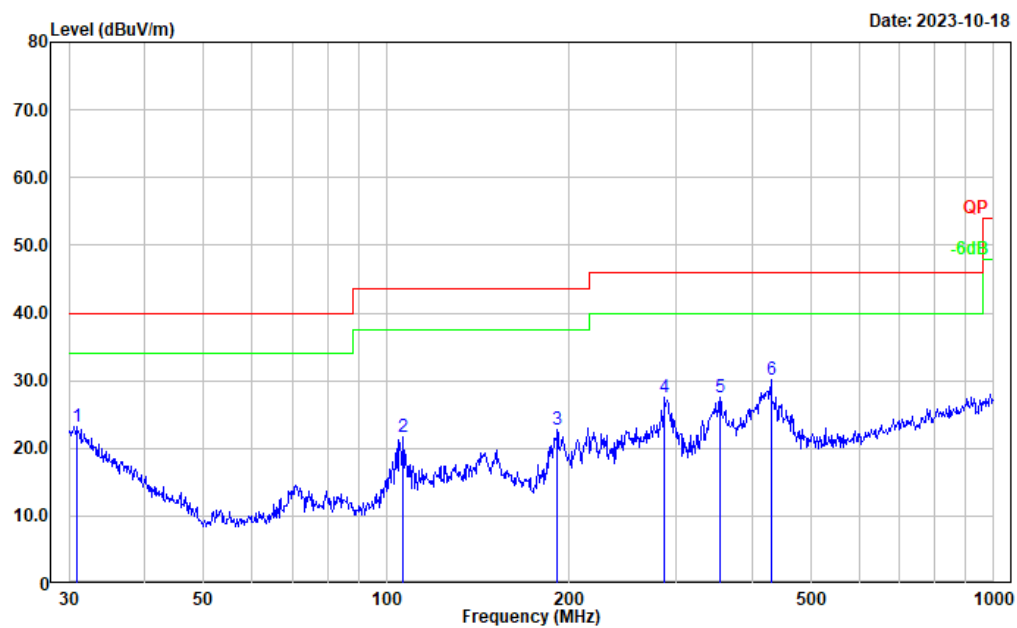
Low channel

Project No.: CR230951413-RF

Tester: Carl Xue

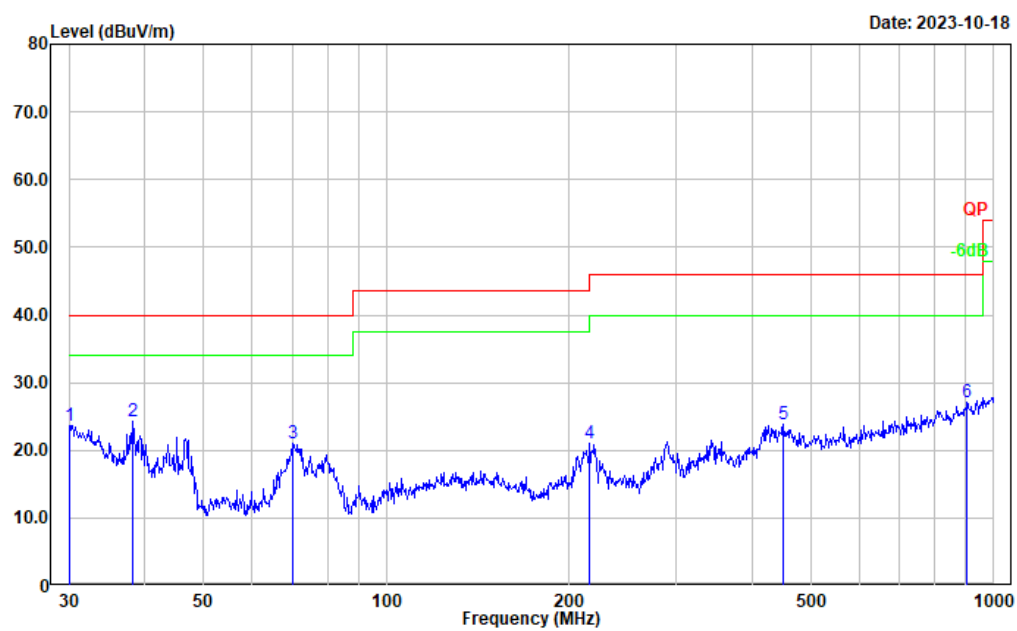
Polarization: horizontal

Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.962	27.72	-4.53	23.19	40.00	16.81	Peak
2	106.385	34.65	-13.07	21.58	43.50	21.92	Peak
3	191.074	35.96	-13.30	22.66	43.50	20.84	Peak
4	286.982	38.68	-11.24	27.44	46.00	18.56	Peak
5	354.183	37.47	-9.94	27.53	46.00	18.47	Peak
6	429.523	37.65	-7.51	30.14	46.00	15.86	Peak

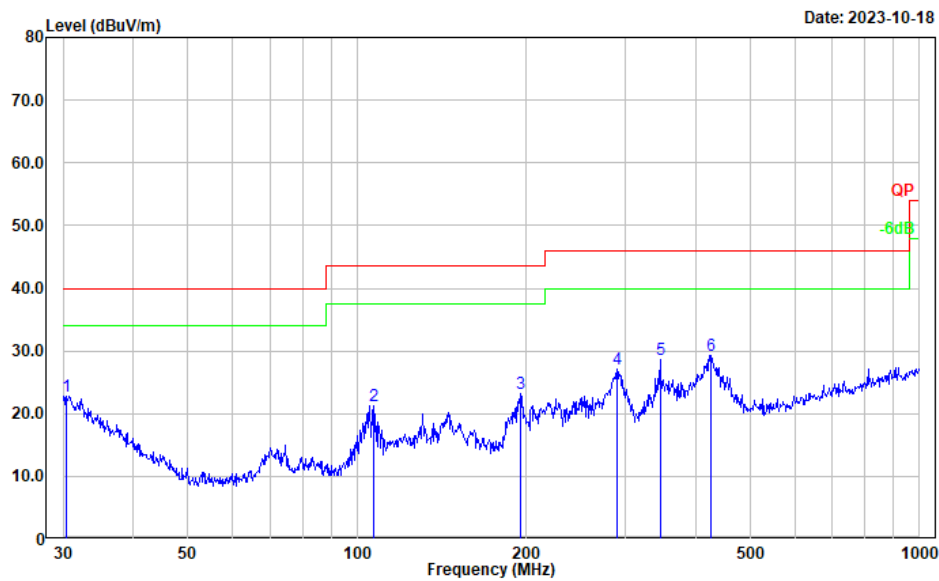
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.47	-3.80	23.67	40.00	16.33	Peak
2	38.212	34.33	-10.02	24.31	40.00	15.69	Peak
3	70.090	37.50	-16.57	20.93	40.00	19.07	Peak
4	216.024	33.67	-12.68	20.99	46.00	25.01	Peak
5	451.135	30.76	-6.91	23.85	46.00	22.15	Peak
6	903.309	27.90	-0.80	27.10	46.00	18.90	Peak

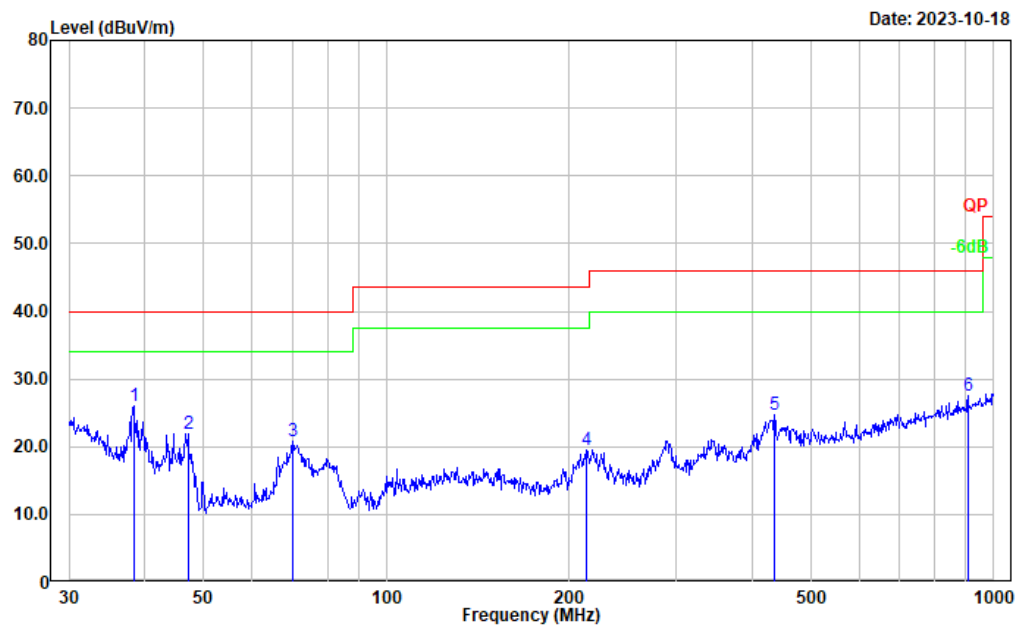
Middle Channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	27.00	-4.13	22.87	40.00	17.13	Peak
2	106.759	34.22	-12.96	21.26	43.50	22.24	Peak
3	195.137	35.97	-12.76	23.21	43.50	20.29	Peak
4	290.017	38.17	-11.06	27.11	46.00	18.89	Peak
5	345.595	38.73	-10.02	28.71	46.00	17.29	Peak
6	426.521	36.88	-7.65	29.23	46.00	16.77	Peak

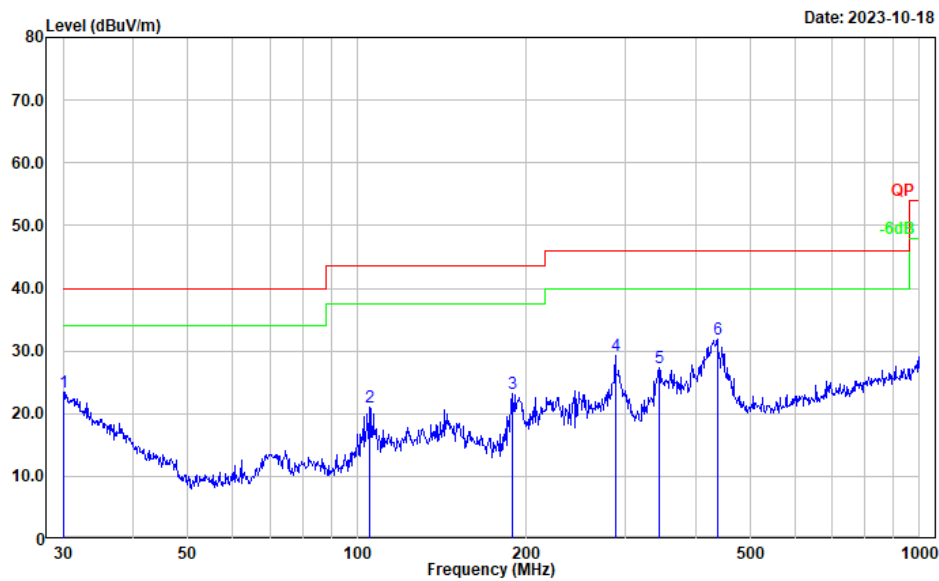
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.346	36.13	-10.12	26.01	40.00	13.99	Peak
2	47.160	37.47	-15.48	21.99	40.00	18.01	Peak
3	70.090	37.35	-16.57	20.78	40.00	19.22	Peak
4	213.015	32.19	-12.57	19.62	43.50	23.88	Peak
5	435.590	32.07	-7.35	24.72	46.00	21.28	Peak
6	906.482	28.36	-0.72	27.64	46.00	18.36	Peak

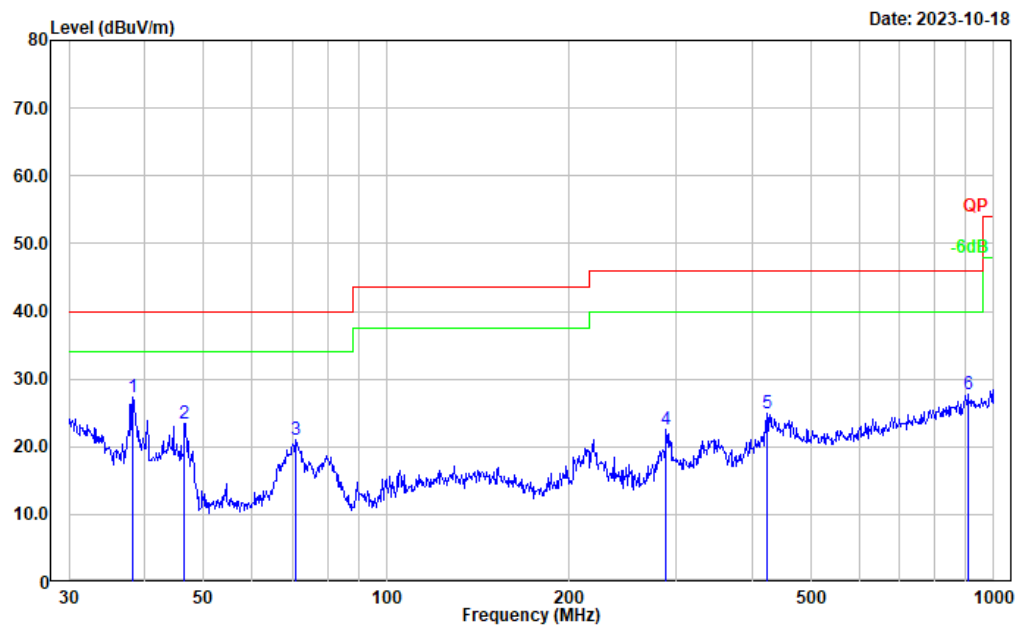
High channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.32	-3.80	23.52	40.00	16.48	Peak
2	105.272	34.37	-13.31	21.06	43.50	22.44	Peak
3	189.074	36.77	-13.47	23.30	43.50	20.20	Peak
4	287.990	40.44	-11.19	29.25	46.00	16.75	Peak
5	344.386	37.42	-10.04	27.38	46.00	18.62	Peak
6	437.120	39.28	-7.32	31.96	46.00	14.04	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.212	37.42	-10.02	27.40	40.00	12.60	Peak
2	46.503	38.59	-15.11	23.48	40.00	16.52	Peak
3	70.832	37.61	-16.64	20.97	40.00	19.03	Peak
4	289.002	33.60	-11.12	22.48	46.00	23.52	Peak
5	423.540	32.63	-7.77	24.86	46.00	21.14	Peak
6	906.482	28.54	-0.72	27.82	46.00	18.18	Peak

Model: Y504W-Y (POE)

Low channel

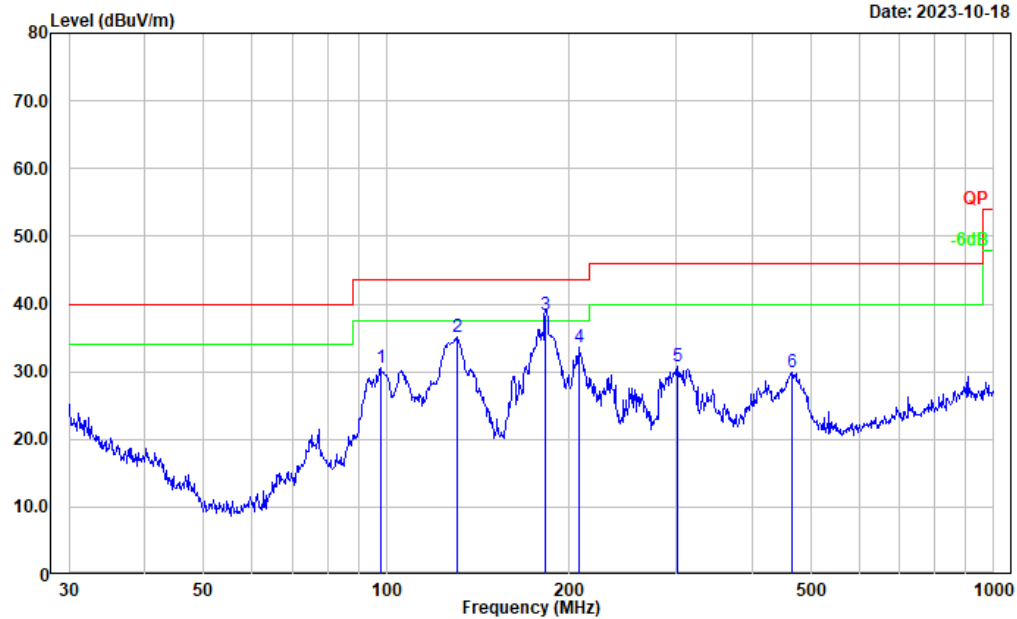
Project No.: CR230951413-RF

Tester: Carl Xue

Polarization: horizontal

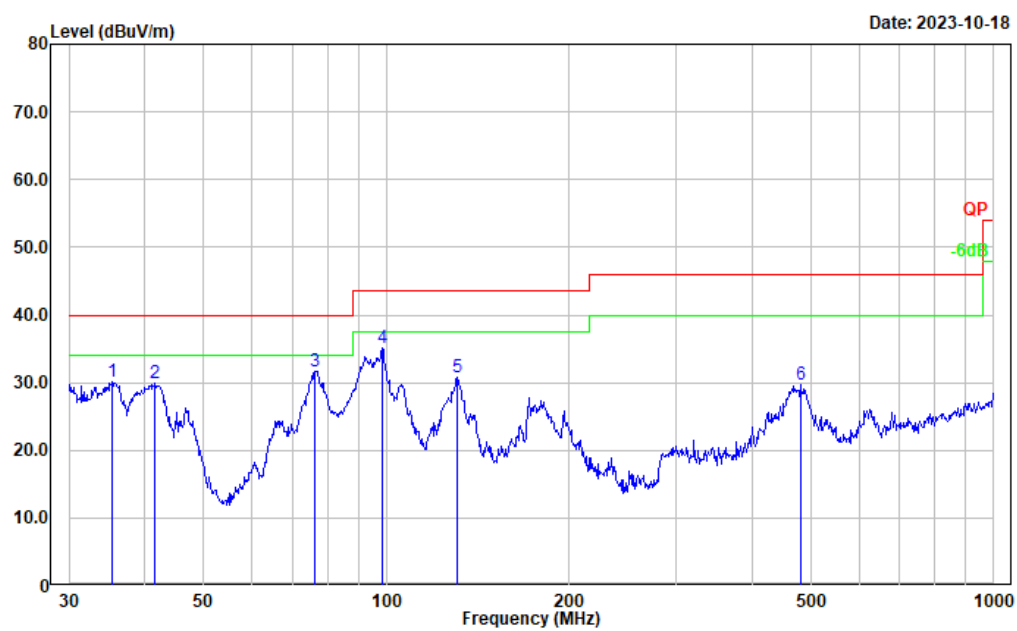
Note:

Date: 2023-10-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	97.798	45.39	-14.85	30.54	43.50	12.96	Peak
2	130.837	46.43	-11.32	35.11	43.50	8.39	Peak
3	182.559	51.87	-13.53	38.34	43.50	5.16	QP
4	207.123	45.95	-12.41	33.54	43.50	9.96	Peak
5	301.422	41.36	-10.61	30.75	46.00	15.25	Peak
6	465.599	36.39	-6.46	29.93	46.00	16.07	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:

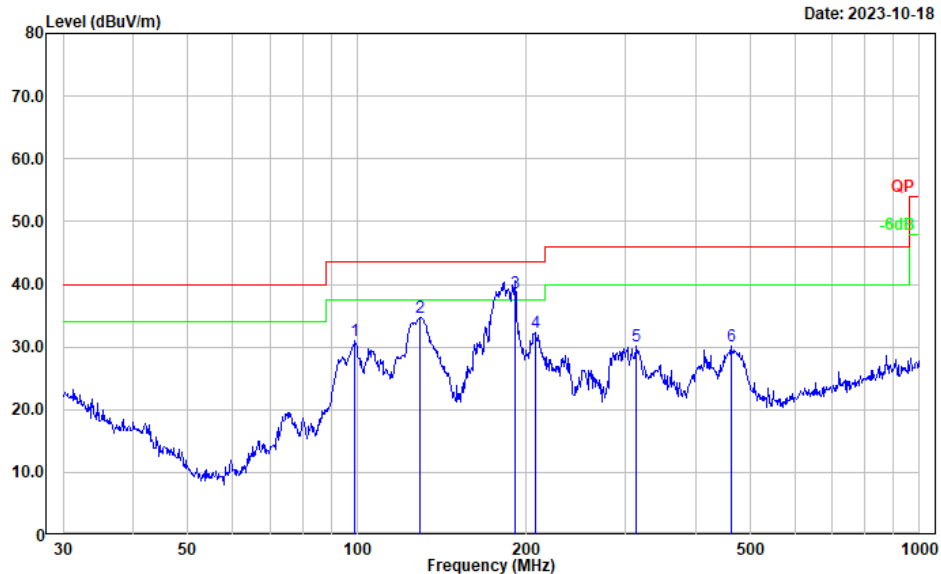


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	35.375	37.98	-7.91	30.07	40.00	9.93	Peak
2	41.567	42.08	-12.27	29.81	40.00	10.19	Peak
3	76.244	48.69	-17.08	31.61	40.00	8.39	Peak
4	98.487	49.85	-14.66	35.19	43.50	8.31	Peak
5	130.837	42.09	-11.32	30.77	43.50	12.73	Peak
6	480.528	35.94	-6.25	29.69	46.00	16.31	Peak

Middle Channel

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:

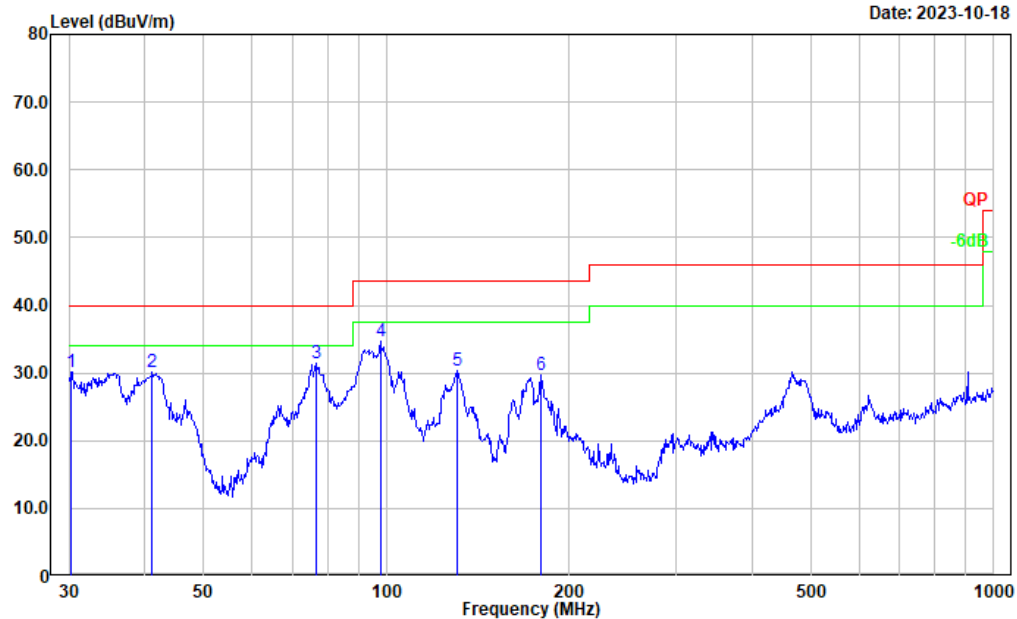
Date: 2023-10-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	99.180	45.59	-14.51	31.08	43.50	12.42	Peak
2	129.015	45.99	-11.28	34.71	43.50	8.79	Peak
3	191.074	51.86	-13.30	38.56	43.50	4.94	QP
4	207.123	44.79	-12.41	32.38	43.50	11.12	Peak
5	313.276	40.70	-10.60	30.10	46.00	15.90	Peak
6	462.346	36.65	-6.58	30.07	46.00	15.93	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:

Date: 2023-10-18

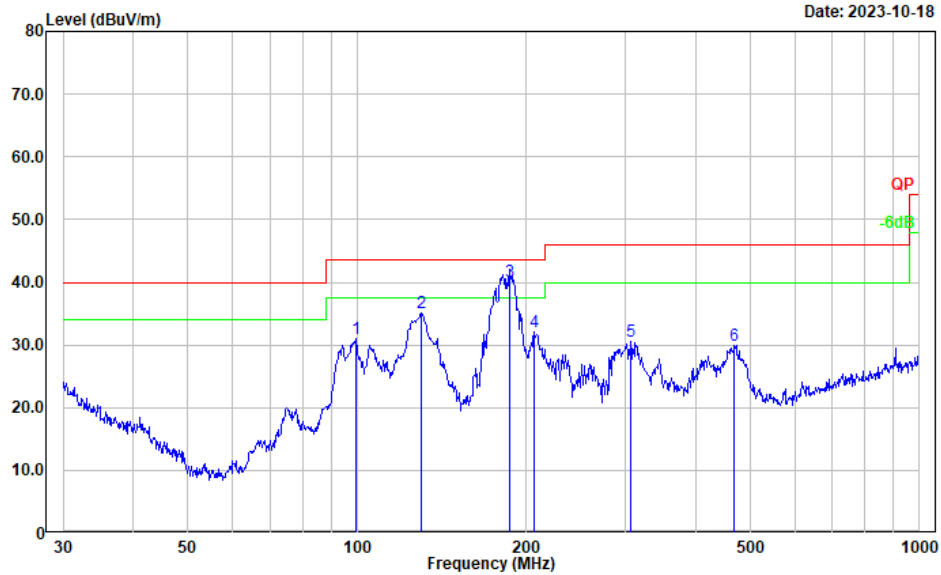


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	34.23	-4.04	30.19	40.00	9.81	Peak
2	41.132	42.29	-12.07	30.22	40.00	9.78	Peak
3	76.512	48.58	-17.13	31.45	40.00	8.55	Peak
4	97.798	49.49	-14.85	34.64	43.50	8.86	Peak
5	130.837	41.59	-11.32	30.27	43.50	13.23	Peak
6	180.017	43.23	-13.53	29.70	43.50	13.80	Peak

High channel

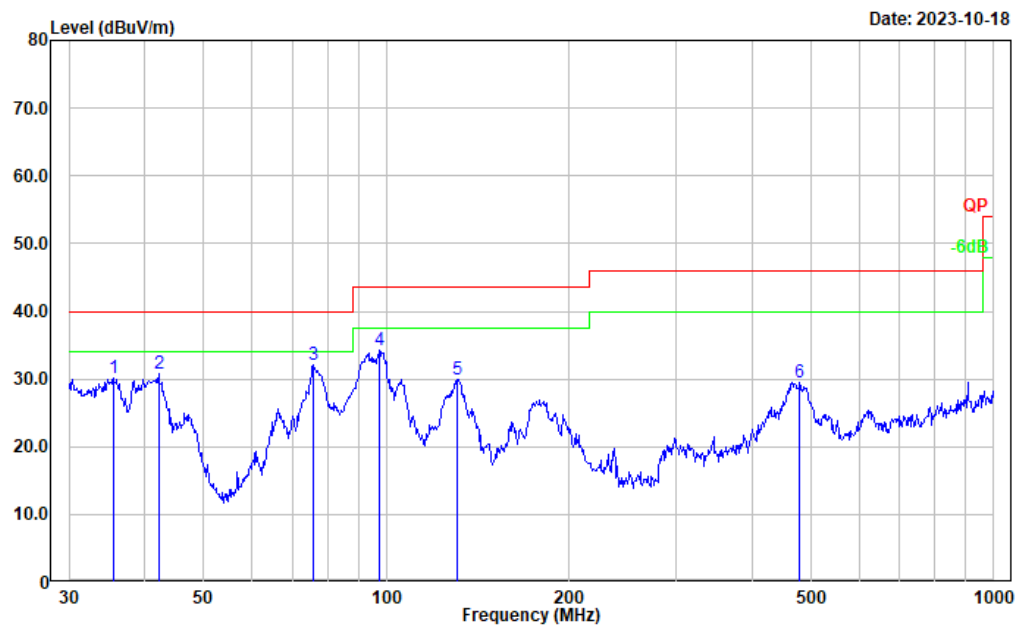
Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: horizontal
Note:

Date: 2023-10-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	99.528	45.44	-14.43	31.01	43.50	12.49	Peak
2	130.379	46.43	-11.31	35.12	43.50	8.38	Peak
3	186.441	53.63	-13.53	40.10	43.50	3.40	QP
4	206.398	44.57	-12.40	32.17	43.50	11.33	Peak
5	306.754	41.25	-10.58	30.67	46.00	15.33	Peak
6	468.876	36.20	-6.38	29.82	46.00	16.18	Peak

Project No.: CR230951413-RF
Tester: Carl Xue
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	35.499	38.10	-8.00	30.10	40.00	9.90	Peak
2	42.154	43.30	-12.60	30.70	40.00	9.30	Peak
3	75.977	49.11	-17.06	32.05	40.00	7.95	Peak
4	97.115	49.26	-15.05	34.21	43.50	9.29	Peak
5	130.837	41.26	-11.32	29.94	43.50	13.56	Peak
6	478.846	35.80	-6.26	29.54	46.00	16.46	Peak

2) 1-25GHz: (i506W&Adapter)**802.11b Mode**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.00	28.89	PK	H	31.46	60.35	74.00	13.65
2390.00	14.65	AV	H	31.46	46.11	54.00	7.89
2390.00	29.74	PK	V	31.46	61.20	74.00	12.80
2390.00	15.95	AV	V	31.46	47.41	54.00	6.59
4824.00	37.54	PK	H	10.94	48.48	74.00	25.52
4824.00	24.35	AV	H	10.94	35.29	54.00	18.71
4824.00	38.77	PK	V	10.94	49.71	74.00	24.29
4824.00	25.20	AV	V	10.94	36.14	54.00	17.86
Middle Channel: 2437 MHz							
4874.00	37.64	PK	H	11.05	48.69	74.00	25.31
4874.00	23.55	AV	H	11.05	34.60	54.00	19.40
4874.00	38.38	PK	V	11.05	49.43	74.00	24.57
4874.00	24.90	AV	V	11.05	35.95	54.00	18.05
High Channel: 2462 MHz							
2483.50	29.66	PK	H	31.64	61.30	74.00	12.70
2483.50	15.01	AV	H	31.64	46.65	54.00	7.35
2483.50	30.38	PK	V	31.64	62.02	74.00	11.98
2483.50	15.90	AV	V	31.64	47.54	54.00	6.46
4924.00	37.85	PK	H	11.18	49.03	74.00	24.97
4924.00	23.32	AV	H	11.18	34.50	54.00	19.50
4924.00	38.03	PK	V	11.18	49.21	74.00	24.79
4924.00	24.42	AV	V	11.18	35.60	54.00	18.40

802.11g Mode

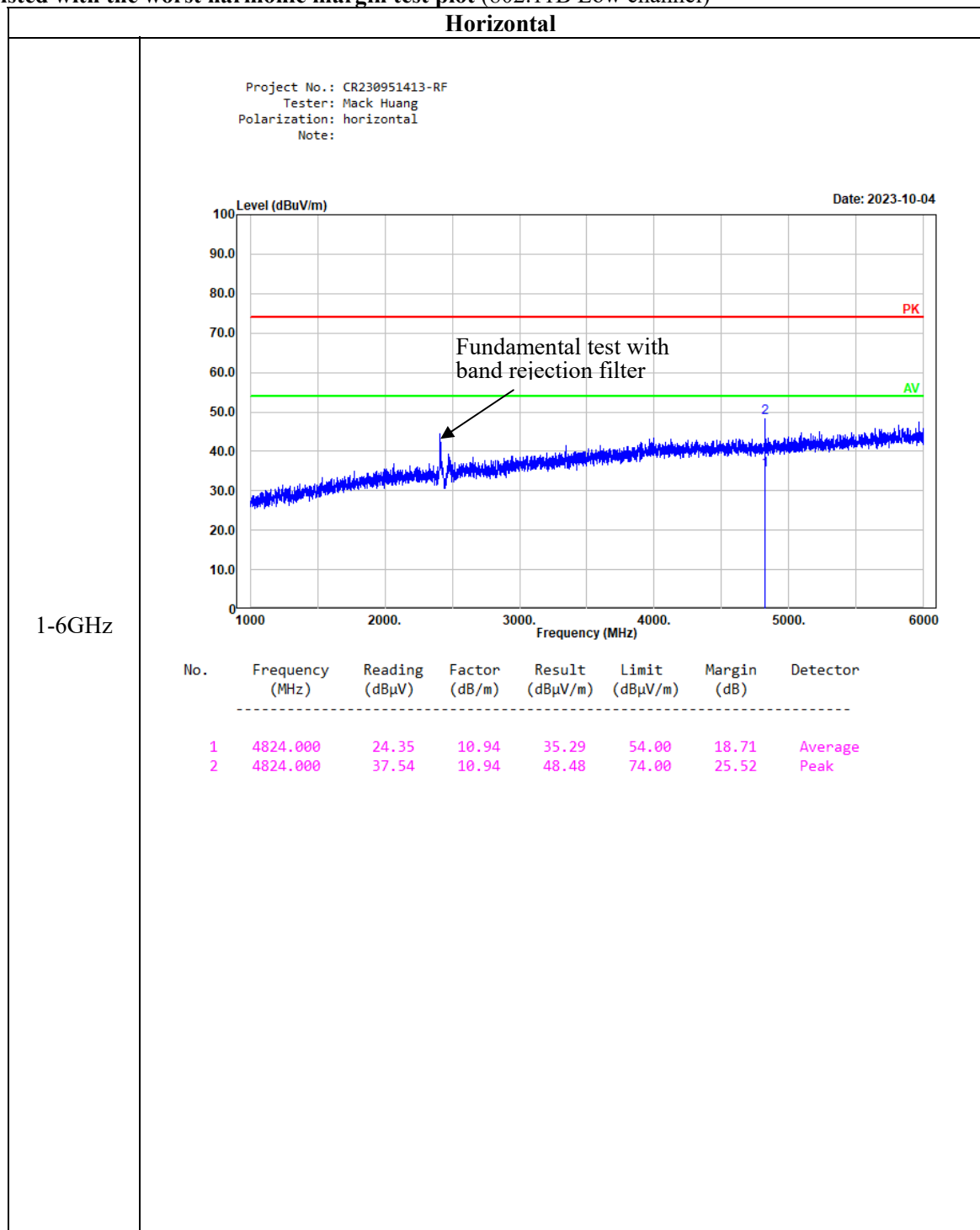
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.00	28.52	PK	H	31.46	59.98	74.00	14.02
2390.00	15.63	AV	H	31.46	47.09	54.00	6.91
2390.00	29.86	PK	V	31.46	61.32	74.00	12.68
2390.00	16.59	AV	V	31.46	48.05	54.00	5.95
4824.00	37.56	PK	H	10.94	48.50	74.00	25.50
4824.00	22.31	AV	H	10.94	33.25	54.00	20.75
4824.00	38.47	PK	V	10.94	49.41	74.00	24.59
4824.00	23.56	AV	V	10.94	34.50	54.00	19.50
Middle Channel: 2437 MHz							
4874.00	37.42	PK	H	11.05	48.47	74.00	25.53
4874.00	22.13	AV	H	11.05	33.18	54.00	20.82
4874.00	38.13	PK	V	11.05	49.18	74.00	24.82
4874.00	23.21	AV	V	11.05	34.26	54.00	19.74
High Channel: 2462 MHz							
2483.50	28.46	PK	H	31.64	60.10	74.00	13.90
2483.50	15.51	AV	H	31.64	47.15	54.00	6.85
2483.50	29.62	PK	V	31.64	61.26	74.00	12.74
2483.50	16.54	AV	V	31.64	48.18	54.00	5.82
4924.00	36.47	PK	H	11.18	47.65	74.00	26.35
4924.00	21.38	AV	H	11.18	32.56	54.00	21.44
4924.00	37.65	PK	V	11.18	48.83	74.00	25.17
4924.00	22.90	AV	V	11.18	34.08	54.00	19.92

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.00	29.67	PK	H	31.46	61.13	74.00	12.87
2390.00	15.29	AV	H	31.46	46.75	54.00	7.25
2390.00	30.07	PK	V	31.46	61.53	74.00	12.47
2390.00	16.68	AV	V	31.46	48.14	54.00	5.86
4824.00	37.18	PK	H	10.94	48.12	74.00	25.88
4824.00	22.45	AV	H	10.94	33.39	54.00	20.61
4824.00	38.60	PK	V	10.94	49.54	74.00	24.46
4824.00	23.67	AV	V	10.94	34.61	54.00	19.39
Middle Channel: 2437.00 MHz							
4874.00	37.62	PK	H	11.05	48.67	74.00	25.33
4874.00	22.19	AV	H		33.24	54.00	20.76
4874.00	38.31	PK	V	11.05	49.36	74.00	24.64
4874.00	23.40	AV	V	11.05	34.45	54.00	19.55
High Channel: 2462.00 MHz							
2483.50	28.63	PK	H	31.64	60.27	74.00	13.73
2483.50	15.22	AV	H	31.64	46.86	54.00	7.14
2483.50	29.84	PK	V	31.64	61.48	74.00	12.52
2483.50	16.69	AV	V	31.64	48.33	54.00	5.67
4924.00	36.50	PK	H	11.18	47.68	74.00	26.32
4924.00	22.23	AV	H	11.18	33.41	54.00	20.59
4924.00	37.88	PK	V	11.18	49.06	74.00	24.94
4924.00	23.01	AV	V	11.18	34.19	54.00	19.81

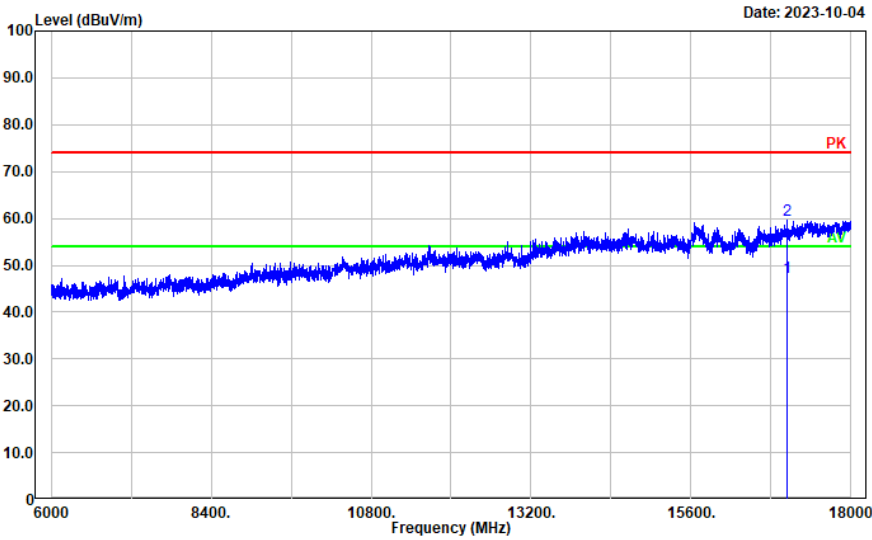
802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2422 MHz							
2390.00	29.66	PK	H	31.46	61.12	74.00	12.88
2390.00	16.11	AV	H	31.46	47.57	54.00	6.43
2390.00	30.82	PK	V	31.46	62.28	74.00	11.72
2390.00	17.37	AV	V	31.46	48.83	54.00	5.17
4844.00	36.23	PK	H	10.96	47.19	74.00	26.81
4844.00	22.35	AV	H	10.96	33.31	54.00	20.69
4844.00	37.86	PK	V	10.96	48.82	74.00	25.18
4844.00	23.98	AV	V	10.96	34.94	54.00	19.06
Middle Channel: 2437.00 MHz							
4874.00	36.58	PK	H	11.05	47.63	74.00	26.37
4874.00	22.36	AV	H	11.05	33.41	54.00	20.59
4874.00	37.63	PK	V	11.05	48.68	74.00	25.32
4874.00	23.65	AV	V	11.05	34.70	54.00	19.30
High Channel: 2452.00 MHz							
2483.50	29.65	PK	H	31.64	61.29	74.00	12.71
2483.50	16.41	AV	H	31.64	48.05	54.00	5.95
2483.50	30.61	PK	V	31.64	62.25	74.00	11.75
2483.50	17.38	AV	V	31.64	49.02	54.00	4.98
4904.00	36.38	PK	H	11.14	47.52	74.00	26.48
4904.00	23.17	AV	H	11.14	34.31	54.00	19.69
4904.00	37.29	PK	V	11.14	48.43	74.00	25.57
4904.00	23.23	AV	V	11.14	34.37	54.00	19.63

Listed with the worst harmonic margin test plot (802.11B Low channel)

Horizontal

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: horizontal
Note:



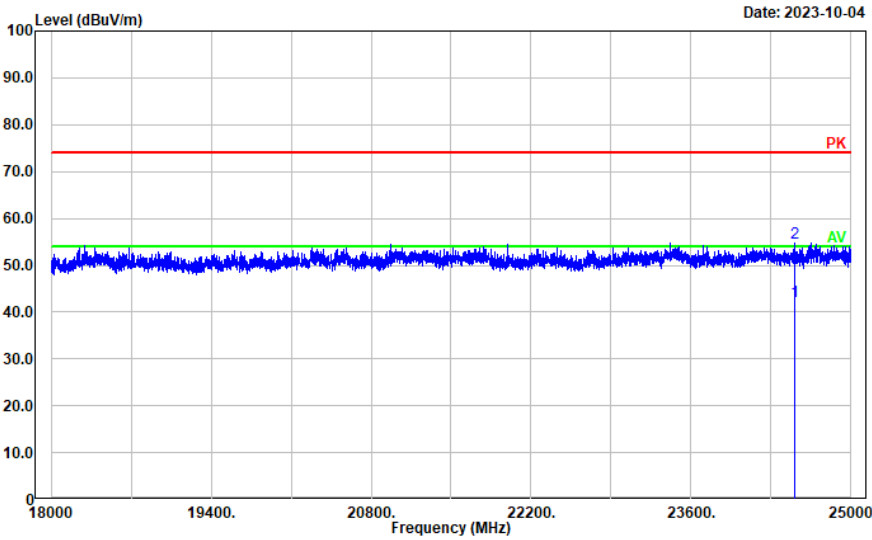
6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	17044.610	21.57	25.80	47.37	54.00	6.63	Average
2	17044.610	33.94	25.80	59.74	74.00	14.26	Peak

Horizontal

18-25GHz

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Horizontal
Note:

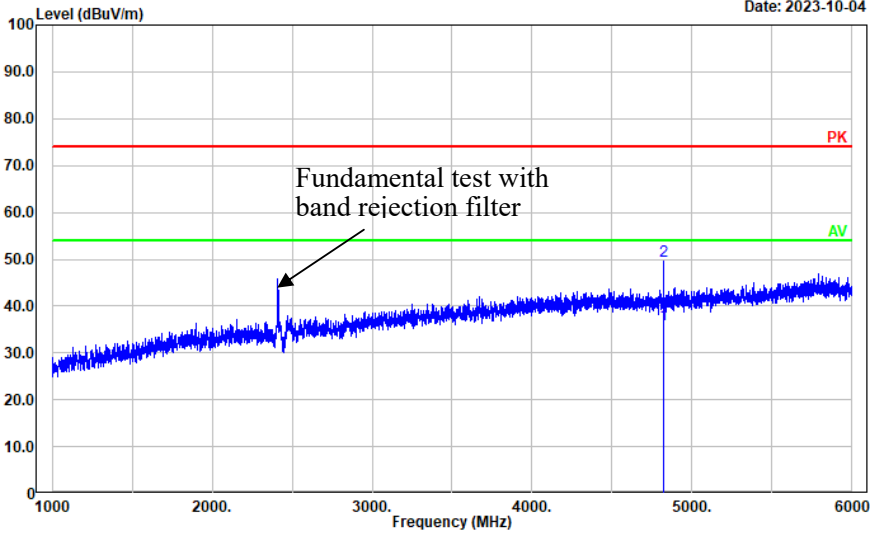


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	24508.500	37.05	5.36	42.41	54.00	11.59	Average
2	24508.500	49.46	5.36	54.82	74.00	19.18	Peak

Vertical

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Vertical
Note:

Date: 2023-10-04

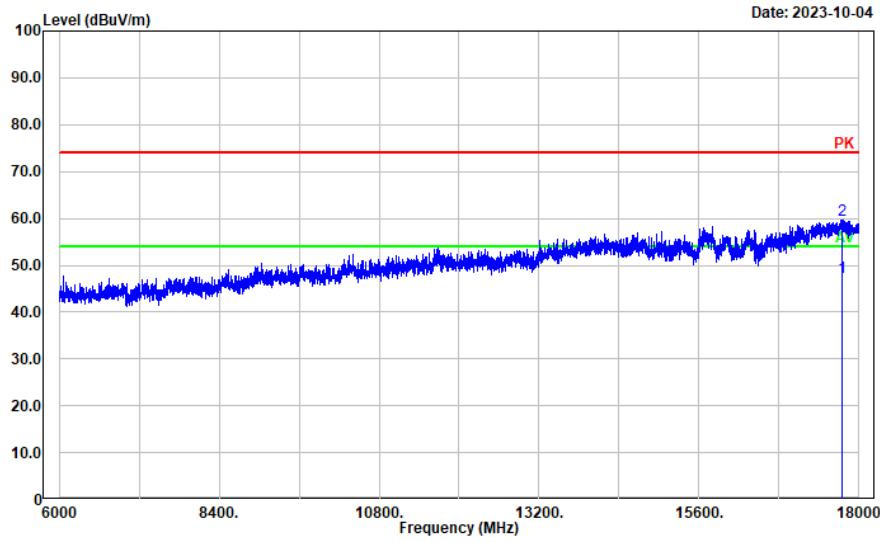


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.000	25.20	10.94	36.14	54.00	17.86	Average
2	4824.000	38.77	10.94	49.71	74.00	24.29	Peak

Vertical

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Vertical
Note:



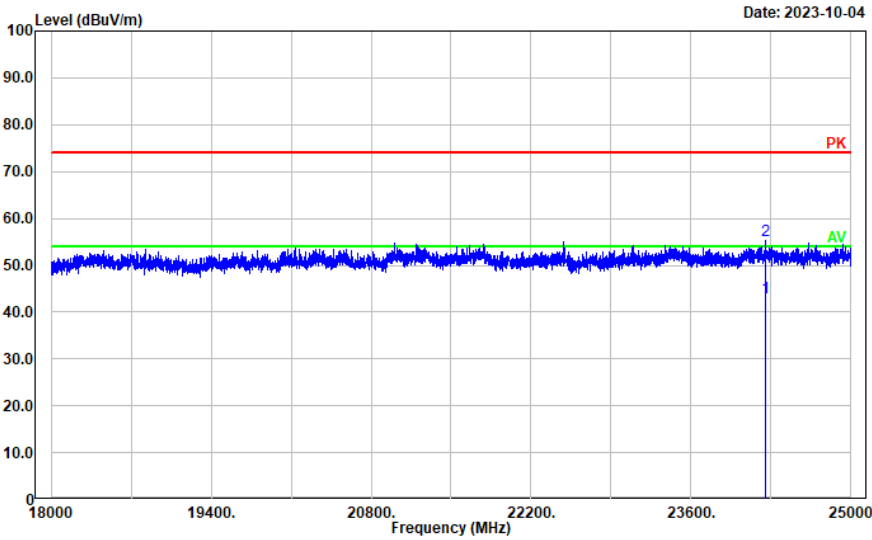
6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	17750.350	16.76	30.59	47.35	54.00	6.65	Average
2	17750.350	29.10	30.59	59.69	74.00	14.31	Peak

Vertical

18-25GHz

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	24250.850	38.15	5.03	43.18	54.00	10.82	Average
2	24250.850	50.34	5.03	55.37	74.00	18.63	Peak

1-25GHz: (i504W&Adapter)**802.11b Mode**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2412	MHz		
2390.000	28.57	PK	H	31.71	60.28	74.00	13.72
2390.000	16.85	AV	H	31.71	48.56	54.00	5.44
2390.000	29.45	PK	V	31.71	61.16	74.00	12.84
2390.000	17.73	AV	V	31.71	49.44	54.00	4.56
4824.000	35.87	PK	H	11.26	47.13	74.00	26.87
4824.000	22.73	AV	H	11.26	33.99	54.00	20.01
4824.000	36.75	PK	V	11.26	48.01	74.00	25.99
4824.000	23.61	AV	V	11.26	34.87	54.00	19.13
Middle Channel:				2437	MHz		
4874.000	36.03	PK	H	11.45	47.48	74.00	26.52
4874.000	22.89	AV	H	11.45	34.34	54.00	19.66
4874.000	36.91	PK	V	11.45	48.36	74.00	25.64
4874.000	23.77	AV	V	11.45	35.22	54.00	18.78
High Channel:				2462	MHz		
2483.500	28.30	PK	H	32.19	60.49	74.00	13.51
2483.500	16.51	AV	H	32.19	48.70	54.00	5.30
2483.500	29.18	PK	V	32.19	61.37	74.00	12.63
2483.500	17.39	AV	V	32.19	49.58	54.00	4.42
4924.000	36.17	PK	H	11.67	47.84	74.00	26.16
4924.000	22.41	AV	H	11.67	34.08	54.00	19.92
4924.000	37.05	PK	V	11.67	48.72	74.00	25.28
4924.000	23.29	AV	V	11.67	34.96	54.00	19.04

802.11g Mode

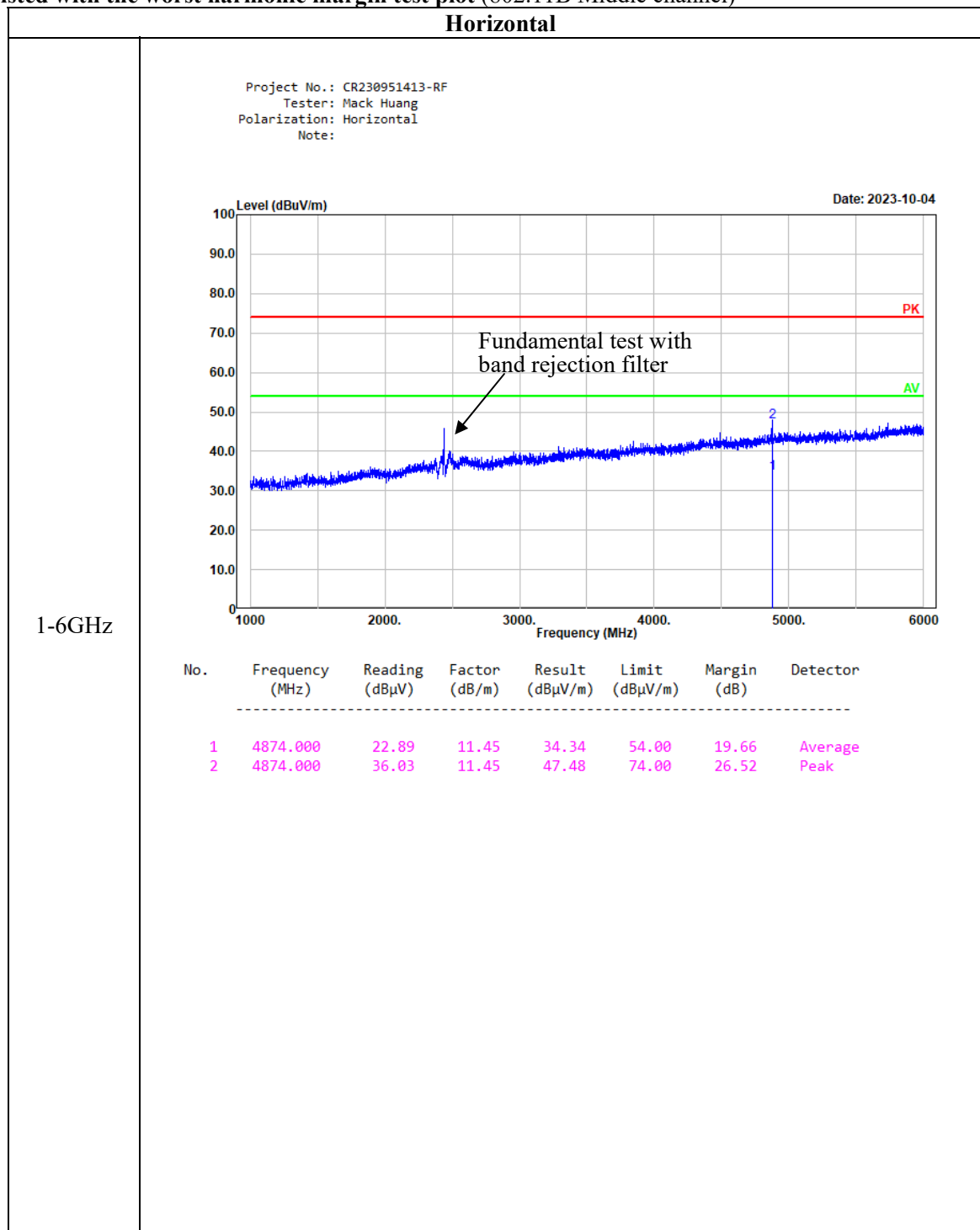
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	29.42	PK	H	31.71	61.13	74.00	12.87
2390.000	16.58	AV	H	31.71	48.29	54.00	5.71
2390.000	29.30	PK	V	31.71	61.01	74.00	12.99
2390.000	17.46	AV	V	31.71	49.17	54.00	4.83
4824.000	35.87	PK	H	11.26	47.13	74.00	26.87
4824.000	22.36	AV	H	11.26	33.62	54.00	20.38
4824.000	36.75	PK	V	11.26	48.01	74.00	25.99
4824.000	23.24	AV	V	11.26	34.50	54.00	19.50
Middle Channel: 2437 MHz							
4874.000	36.13	PK	H	11.45	47.58	74.00	26.42
4874.000	22.62	AV	H	11.45	34.07	54.00	19.93
4874.000	37.01	PK	V	11.45	48.46	74.00	25.54
4874.000	23.50	AV	V	11.45	34.95	54.00	19.05
High Channel: 2462 MHz							
2483.500	28.41	PK	H	32.19	60.60	74.00	13.40
2483.500	16.41	AV	H	32.19	48.60	54.00	5.40
2483.500	29.29	PK	V	32.19	61.48	74.00	12.52
2483.500	17.29	AV	V	32.19	49.48	54.00	4.52
4924.000	35.37	PK	H	11.67	47.04	74.00	26.96
4924.000	21.77	AV	H	11.67	33.44	54.00	20.56
4924.000	36.25	PK	V	11.67	47.92	74.00	26.08
4924.000	22.65	AV	V	11.67	34.32	54.00	19.68

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	29.32	PK	H	31.71	61.03	74.00	12.97
2390.000	16.50	AV	H	31.71	48.21	54.00	5.79
2390.000	29.20	PK	V	31.71	60.91	74.00	13.09
2390.000	17.83	AV	V	31.71	49.54	54.00	4.46
4824.000	36.02	PK	H	11.26	47.28	74.00	26.72
4824.000	22.27	AV	H	11.26	33.53	54.00	20.47
4824.000	36.90	PK	V	11.26	48.16	74.00	25.84
4824.000	23.15	AV	V	11.26	34.41	54.00	19.59
Middle Channel: 2437 MHz							
4874.000	36.18	PK	H	11.45	47.63	74.00	26.37
4874.000	22.43	AV	H	11.45	33.88	54.00	20.12
4874.000	37.06	PK	V	11.45	48.51	74.00	25.49
4874.000	23.31	AV	V	11.45	34.76	54.00	19.24
High Channel: 2462 MHz							
2483.500	29.11	PK	H	32.19	61.30	74.00	12.70
2483.500	16.36	AV	H	32.19	48.55	54.00	5.45
2483.500	29.99	PK	V	32.19	62.18	74.00	11.82
2483.500	17.24	AV	V	32.19	49.43	54.00	4.57
4924.000	34.82	PK	H	11.67	46.49	74.00	27.51
4924.000	21.60	AV	H	11.67	33.27	54.00	20.73
4924.000	35.70	PK	V	11.67	47.37	74.00	26.63
4924.000	22.48	AV	V	11.67	34.15	54.00	19.85

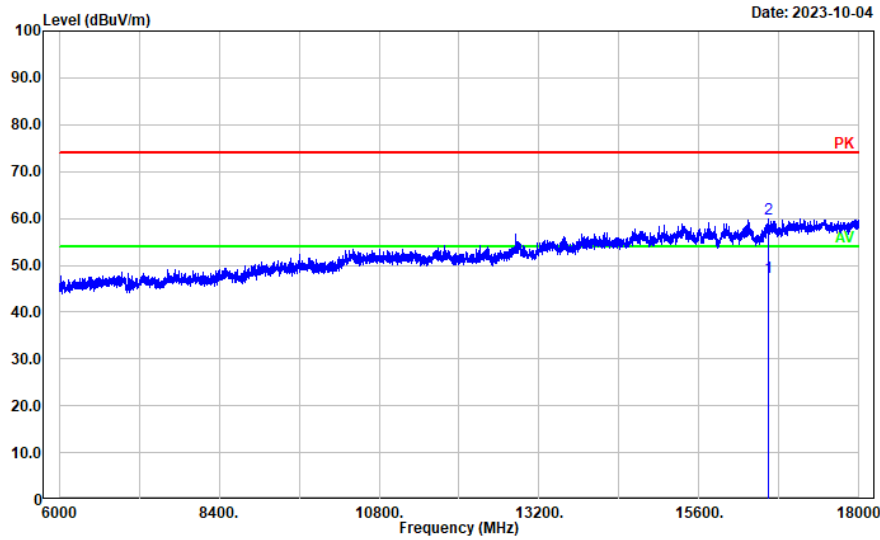
802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2422 MHz							
2390.000	28.83	PK	H	31.71	60.54	74.00	13.46
2390.000	17.14	AV	H	31.71	48.85	54.00	5.15
2390.000	29.71	PK	V	31.71	61.42	74.00	12.58
2390.000	18.02	AV	V	31.71	49.73	54.00	4.27
4844.000	36.00	PK	H	11.31	47.31	74.00	26.69
4844.000	22.81	AV	H	11.31	34.12	54.00	19.88
4844.000	36.88	PK	V	11.31	48.19	74.00	25.81
4844.000	23.69	AV	V	11.31	35.00	54.00	19.00
Middle Channel: 2437 MHz							
4874.000	36.18	PK	H	11.45	47.63	74.00	26.37
4874.000	22.99	AV	H	11.45	34.44	54.00	19.56
4874.000	37.06	PK	V	11.45	48.51	74.00	25.49
4874.000	23.67	AV	V	11.45	35.12	54.00	18.88
High Channel: 2452 MHz							
2483.500	29.95	PK	H	32.19	62.14	74.00	11.86
2483.500	17.94	AV	H	32.19	50.13	54.00	3.87
2483.500	30.83	PK	V	32.19	63.02	74.00	10.98
2483.500	18.62	AV	V	32.19	50.81	54.00	3.19
4904.000	35.13	PK	H	11.58	46.71	74.00	27.29
4904.000	22.10	AV	H	11.58	33.68	54.00	20.32
4904.000	36.01	PK	V	11.58	47.59	74.00	26.41
4904.000	22.98	AV	V	11.58	34.56	54.00	19.44

Listed with the worst harmonic margin test plot (802.11B Middle channel)

Horizontal

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Horizontal
Note:

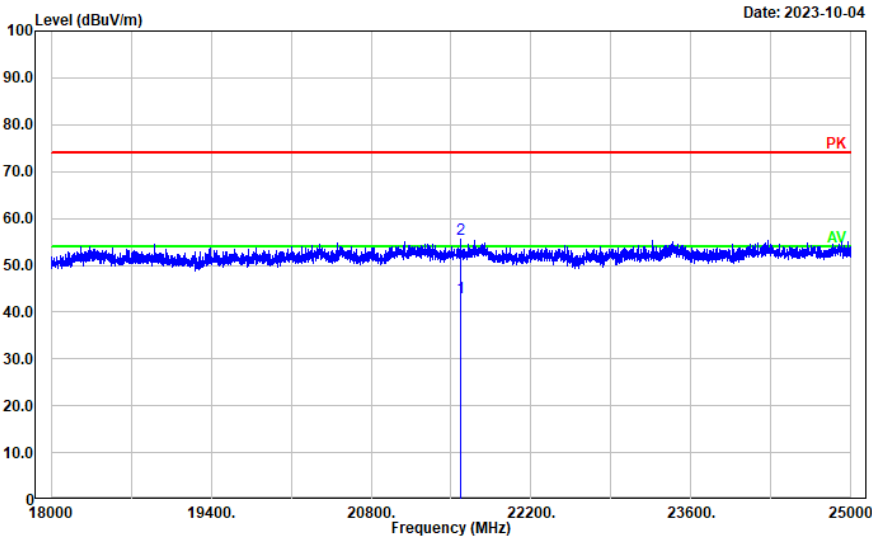


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	16641.330	20.74	26.69	47.43	54.00	6.57	Average
2	16641.330	33.16	26.69	59.85	74.00	14.15	Peak

Horizontal

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



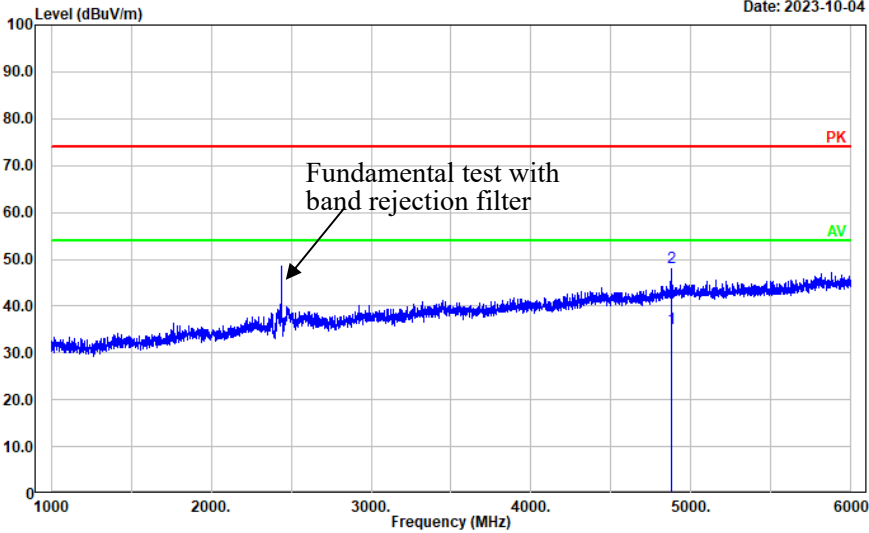
18-25GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21581.920	38.62	4.60	43.22	54.00	10.78	Average
2	21581.920	50.84	4.60	55.44	74.00	18.56	Peak

Vertical

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Vertical
Note:

Date: 2023-10-04

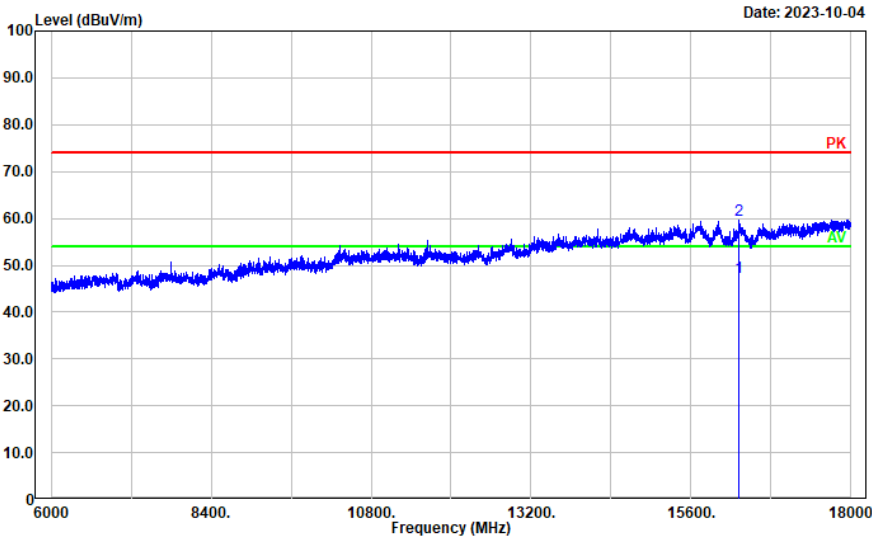


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.000	23.77	11.45	35.22	54.00	18.78	Average
2	4874.000	36.91	11.45	48.36	74.00	25.64	Peak

Vertical

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Vertical
Note:



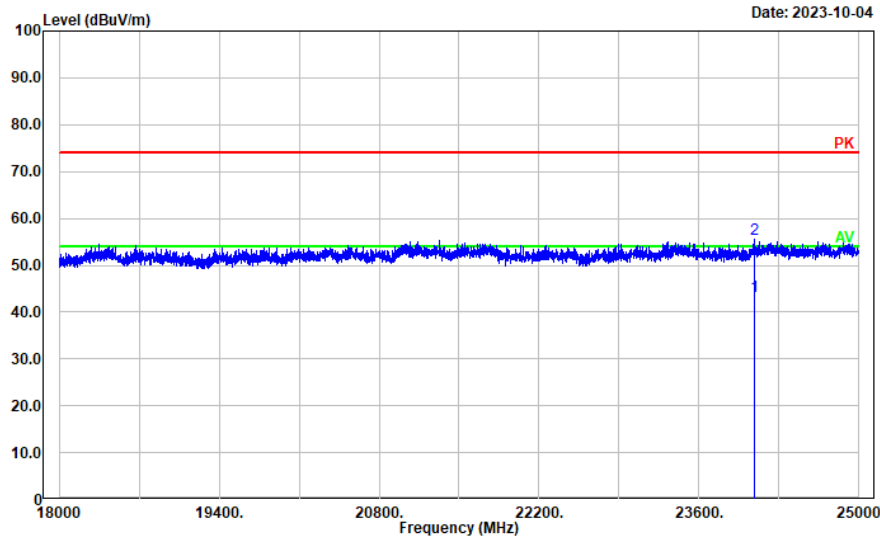
6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	16317.260	21.71	25.67	47.38	54.00	6.62	Average
2	16317.260	34.05	25.67	59.72	74.00	14.28	Peak

Vertical

18-25GHz

Project No.: CR230951413-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	24084.220	38.48	4.80	43.28	54.00	10.72	Average
2	24084.220	50.75	4.80	55.55	74.00	18.45	Peak

4.3 Minimum 6 dB Emission Bandwidth

Serial Number:	2ATU-2	Test Date:	2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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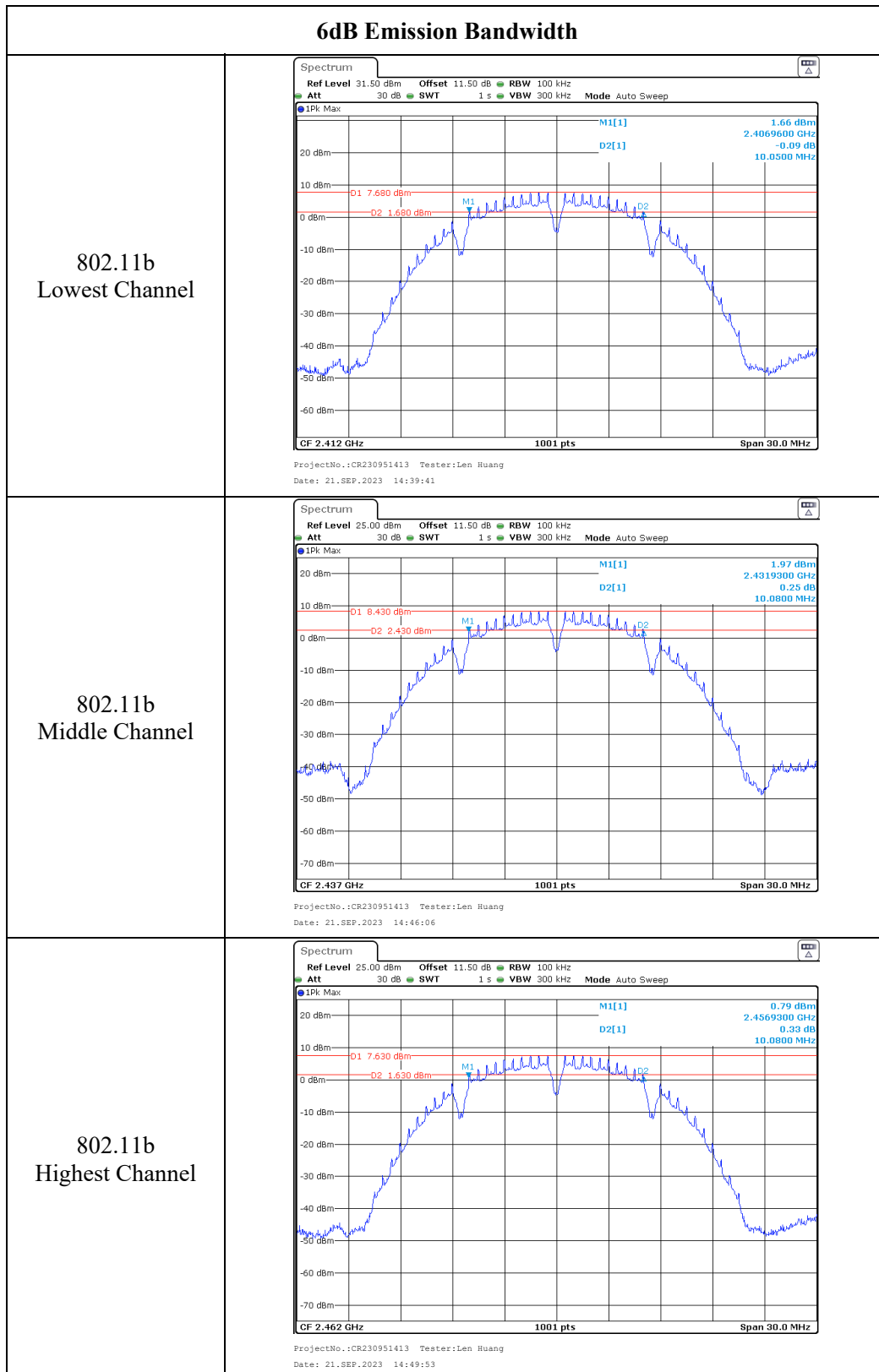
Test Equipment List and Details:

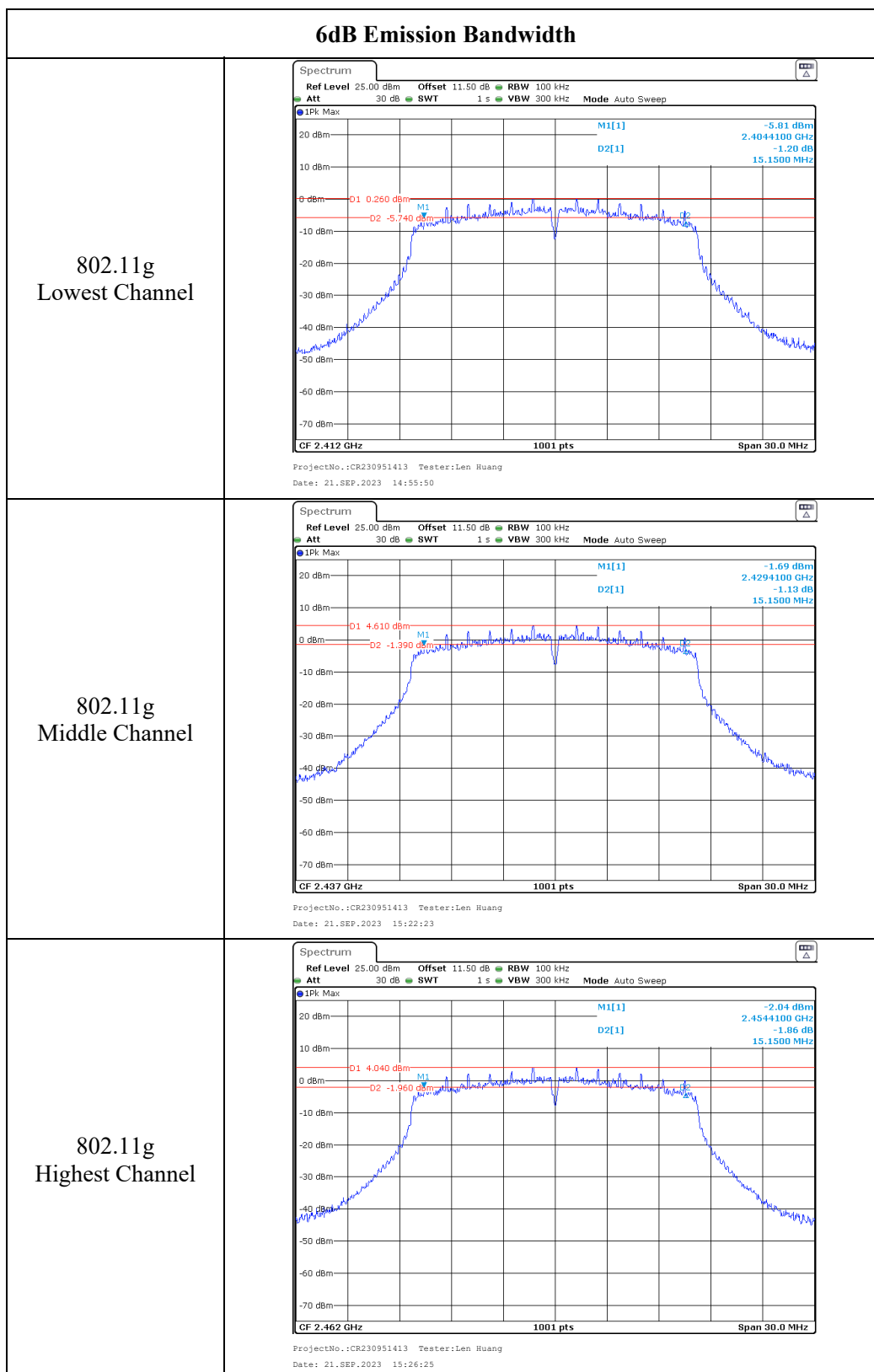
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

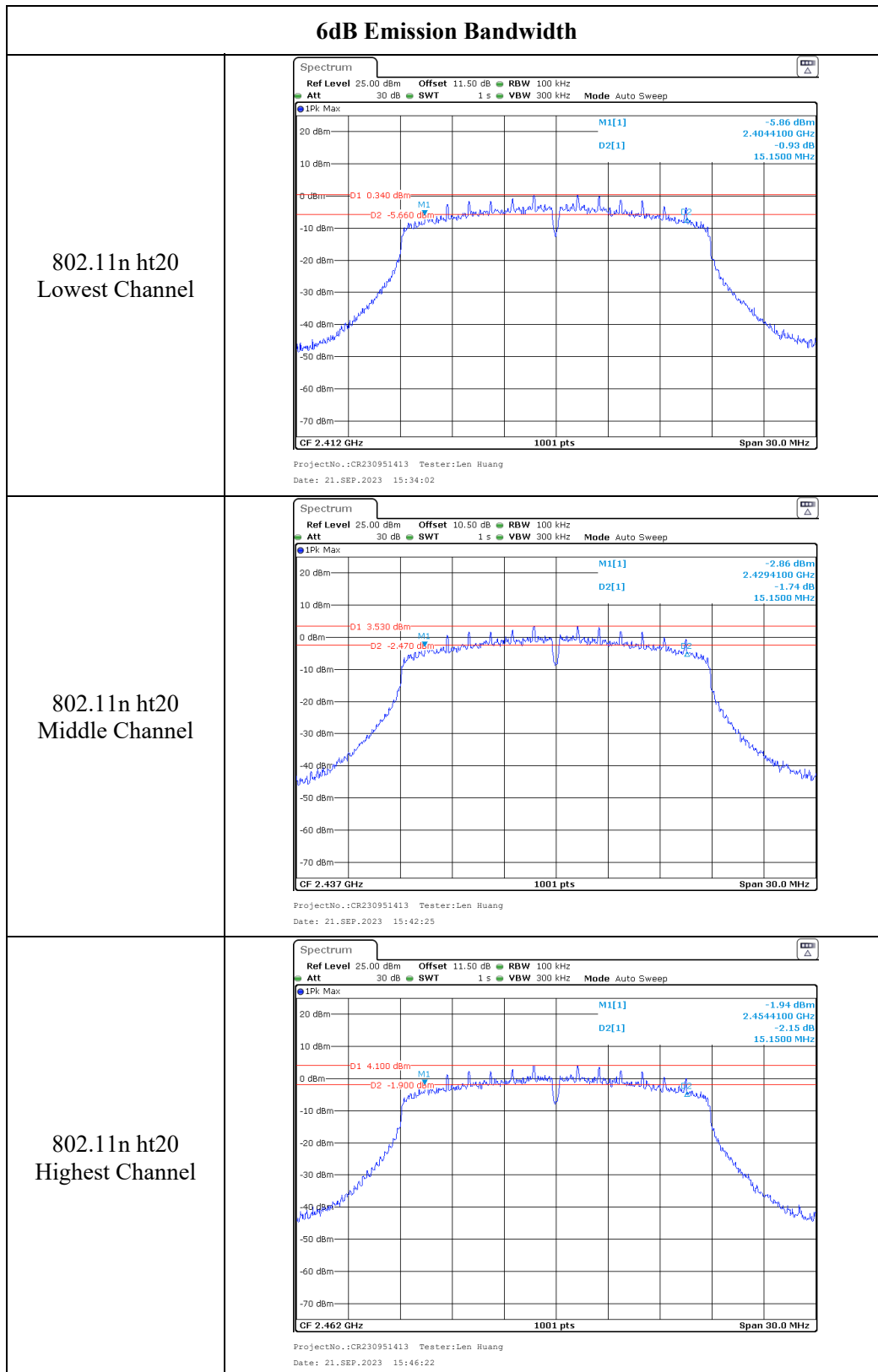
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	10.05	0.5
	2437	10.08	0.5
	2462	10.08	0.5
802.11g	2412	15.15	0.5
	2437	15.15	0.5
	2462	15.15	0.5
802.11n ht20	2412	15.15	0.5
	2437	15.15	0.5
	2462	15.15	0.5
802.11n ht40	2422	31.44	0.5
	2437	31.44	0.5
	2452	31.44	0.5







4.4 99% Occupied Bandwidth

Serial Number:	2ATU-2	Test Date:	2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

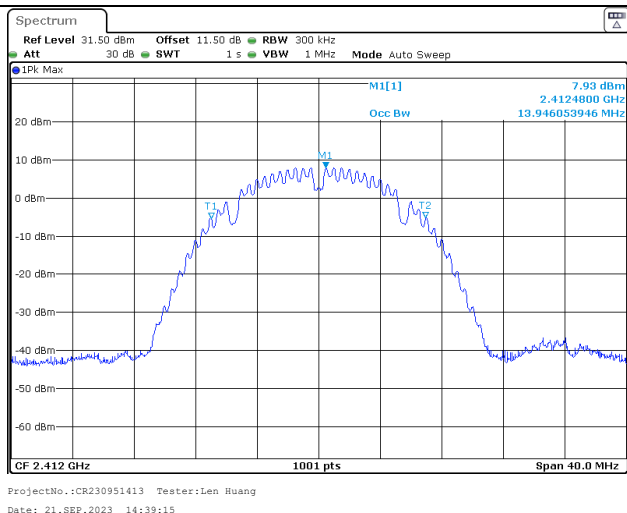
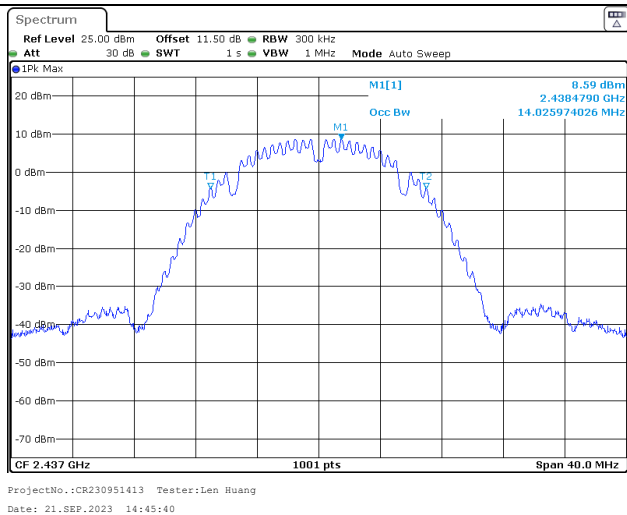
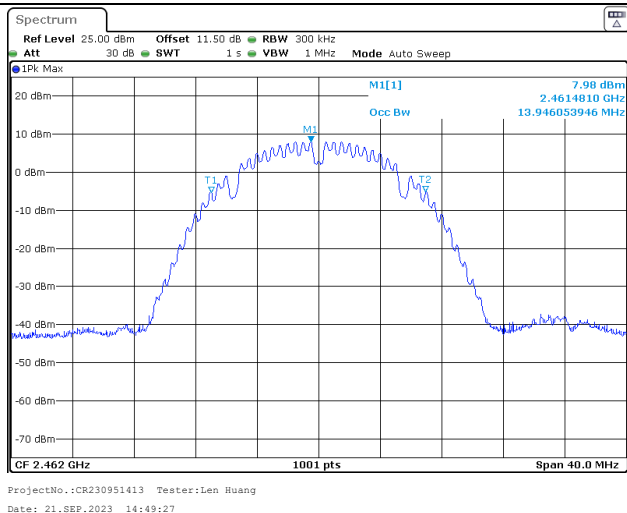
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

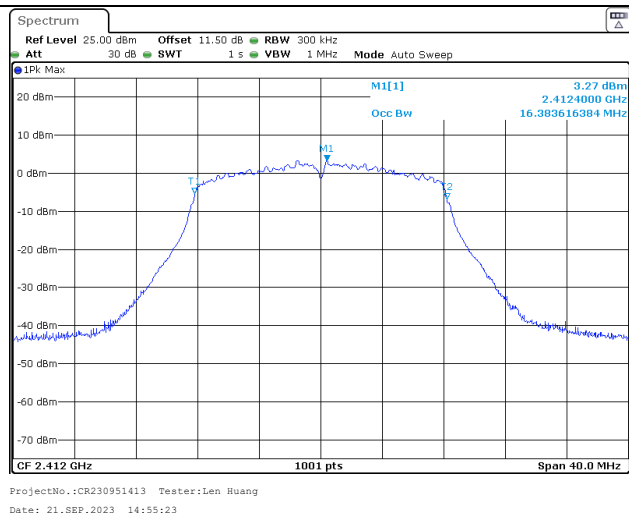
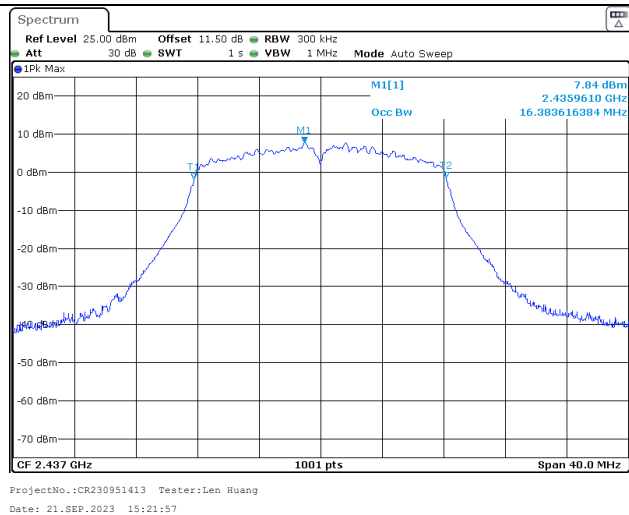
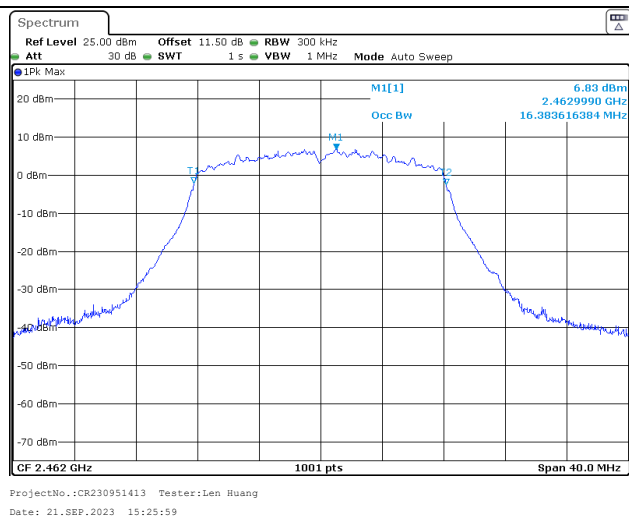
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

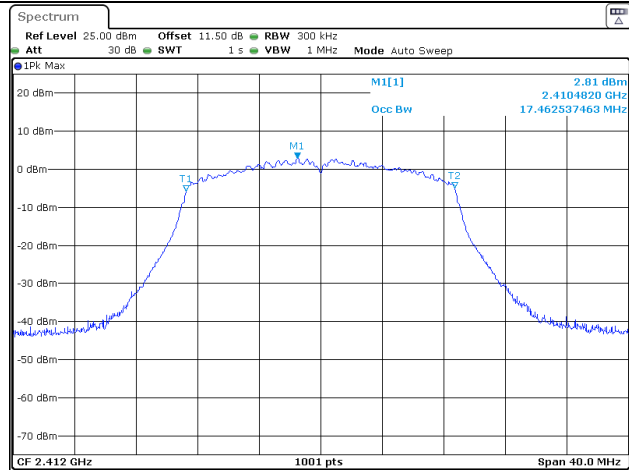
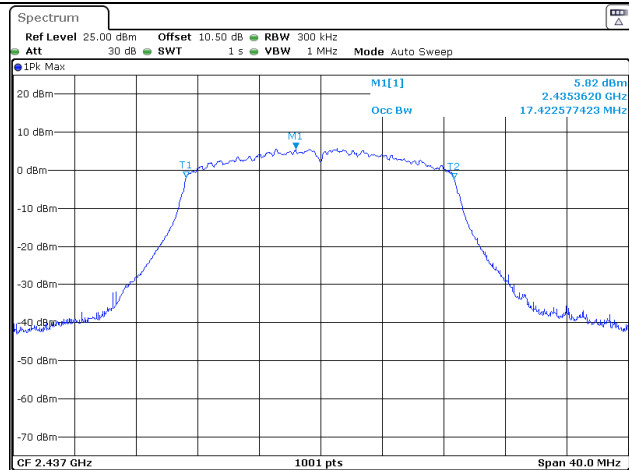
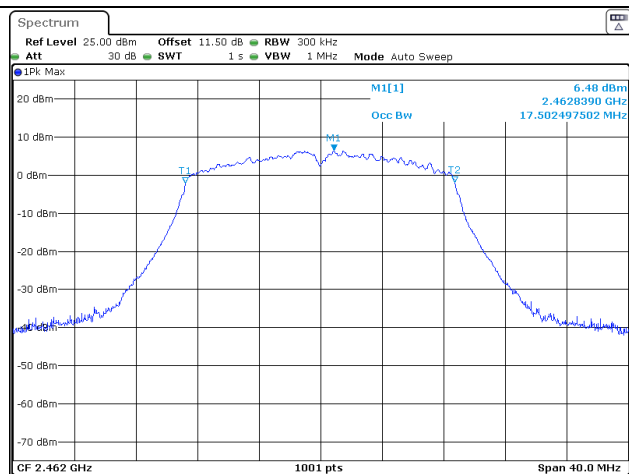
Test Data:

Test Modes	Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b	Lowest	2412	13.95
	Middle	2437	14.03
	Highest	2462	13.95
802.11g	Lowest	2412	16.38
	Middle	2437	16.38
	Highest	2462	16.38
802.11n ht20	Lowest	2412	17.46
	Middle	2437	17.42
	Highest	2462	17.50
802.11n ht40	Lowest	2422	35.24
	Middle	2437	35.32
	Highest	2452	35.32

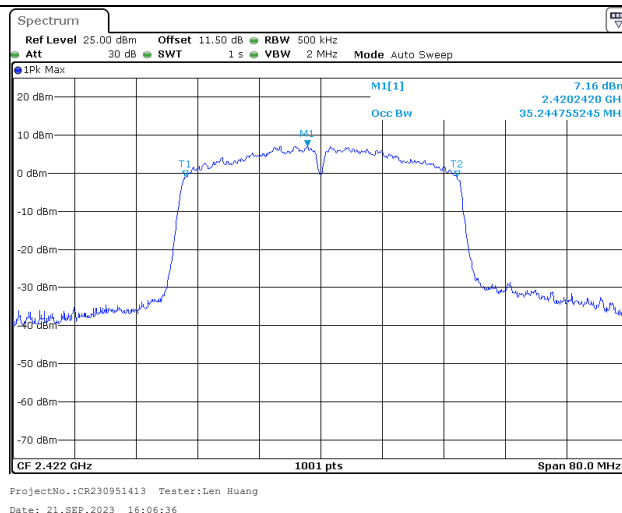
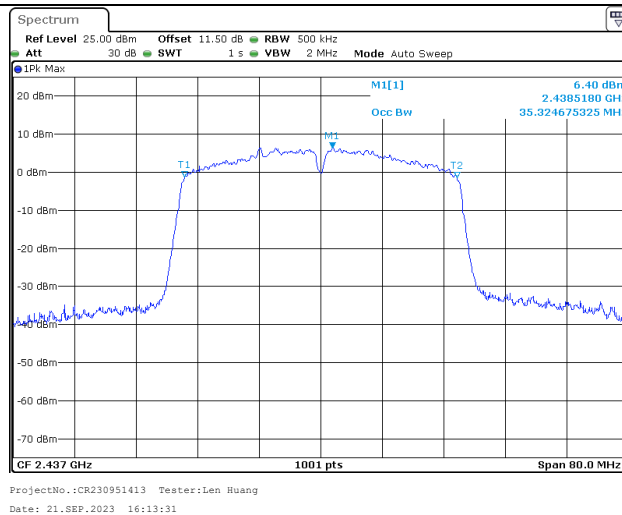
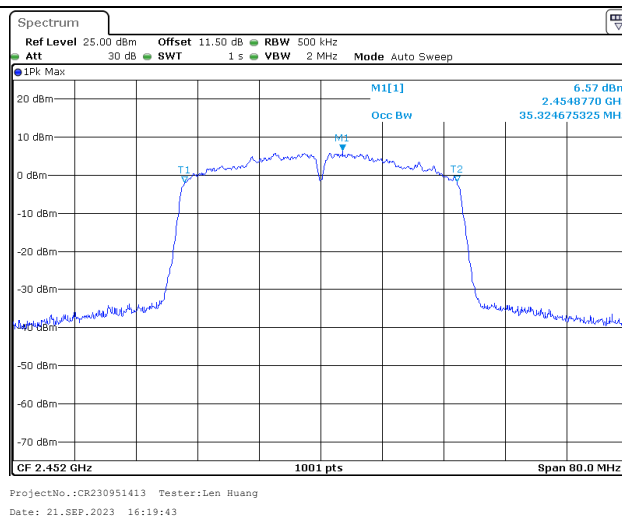
99% Occupied Bandwidth

802.11b
Lowest Channel802.11b
Middle Channel802.11b
Highest Channel

99% Occupied Bandwidth802.11g
Lowest Channel802.11g
Middle Channel802.11g
Highest Channel

99% Occupied Bandwidth802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

99% Occupied Bandwidth

802.11n ht40
Lowest Channel802.11n ht40
Middle Channel802.11n ht40
Highest Channel

4.5 Maximum Conducted Output Power

Serial Number:	2ATU-2	Test Date:	2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3

* 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:

Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
802.11b	2412	19.82	29.4
	2437	20.61	29.4
	2462	19.86	29.4
802.11g	2412	18.88	29.4
	2437	21.87	29.4
	2462	22.63	29.4
802.11n ht20	2412	18.72	29.4
	2437	21.96	29.4
	2462	22.53	29.4
802.11n ht40	2422	22.21	29.4
	2437	22.22	29.4
	2452	22.64	29.4
Note: the maximum antenna gain is 6.6dBi>6dBi, so the limit was reduced 0.6dB.			

4.6 Maximum Power Spectral Density

Serial Number:	2ATU-2	Test Date:	2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

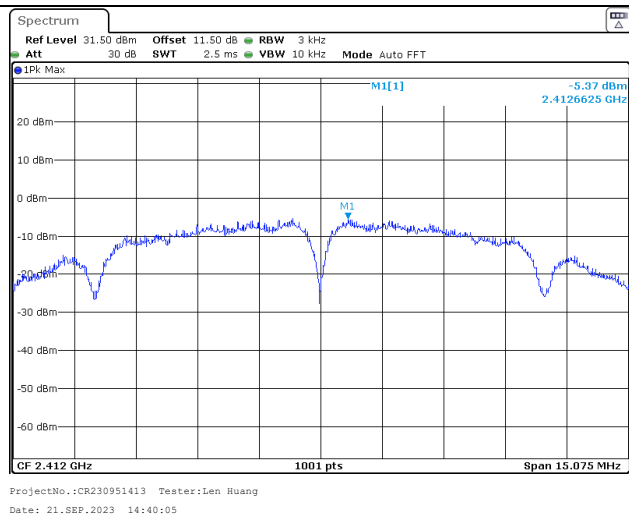
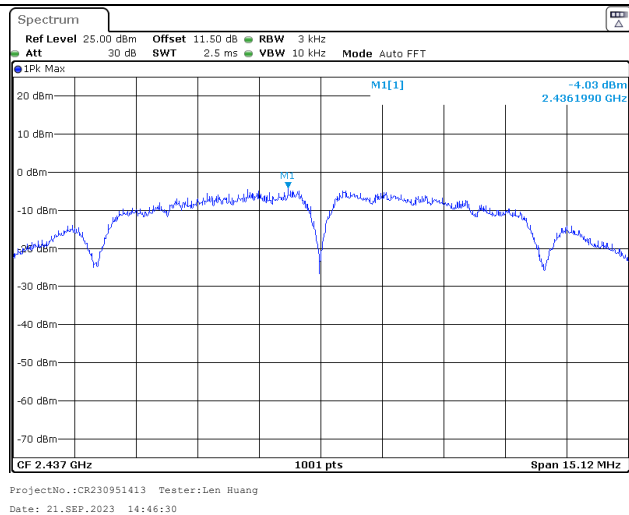
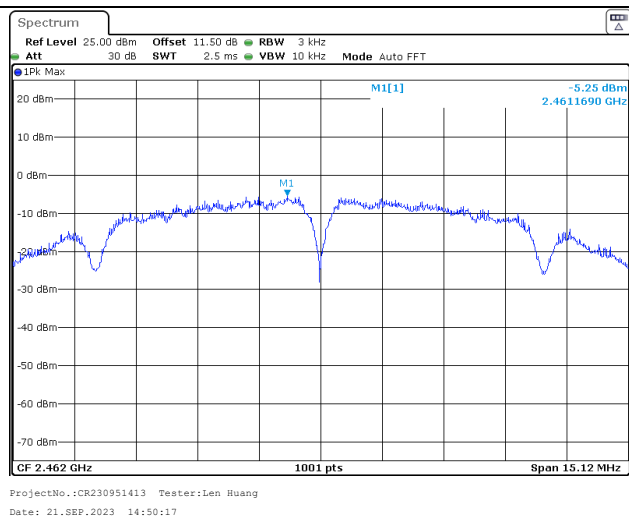
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

* 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).

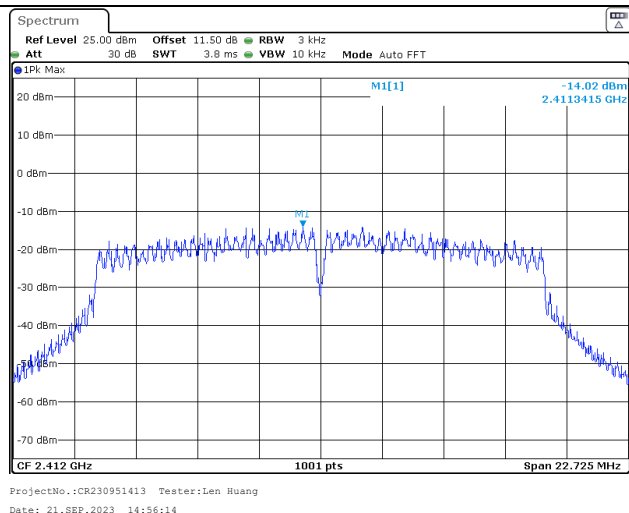
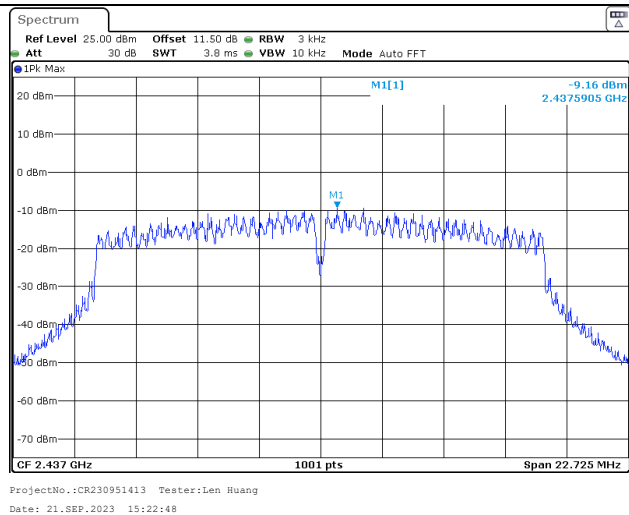
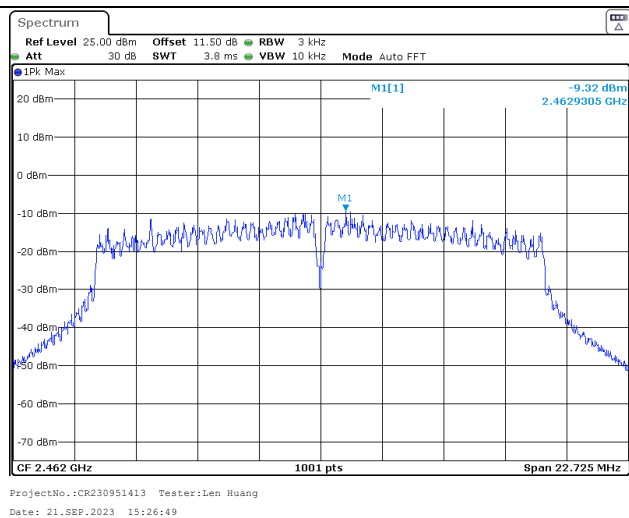
Test Data:

Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-5.37	7.4
	2437	-4.03	7.4
	2462	-5.25	7.4
802.11g	2412	-14.02	7.4
	2437	-9.16	7.4
	2462	-9.32	7.4
802.11n ht20	2412	-13.42	7.4
	2437	-10.2	7.4
	2462	-9.63	7.4
802.11n ht40	2422	-11.8	7.4
	2437	-12.32	7.4
	2452	-13.55	7.4
Note: the maximum antenna gain is 6.6dBi>6dBi, so the limit was reduced 0.6dB.			

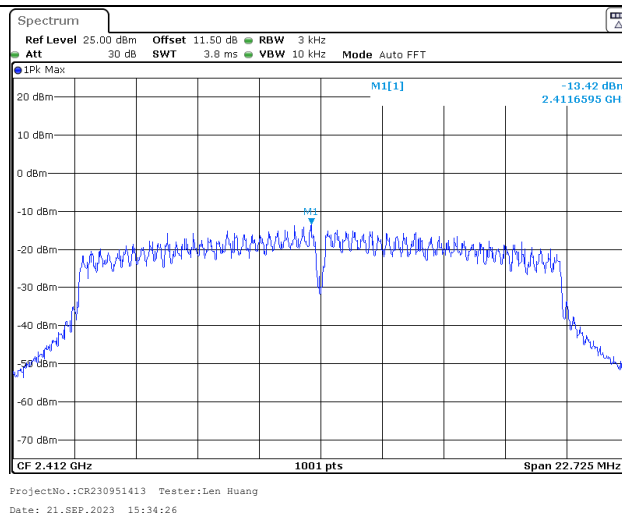
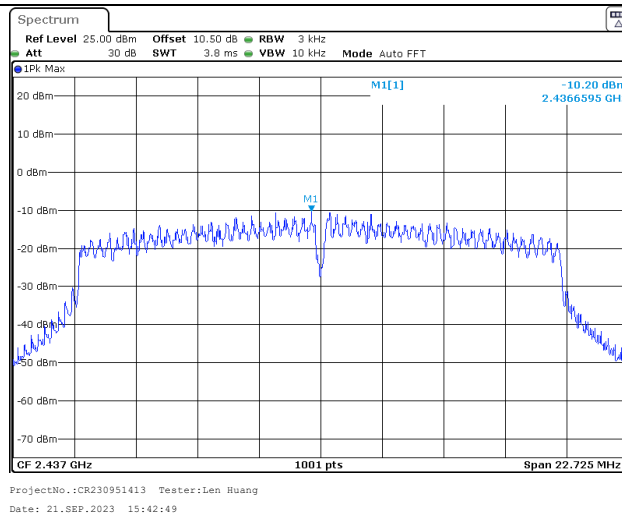
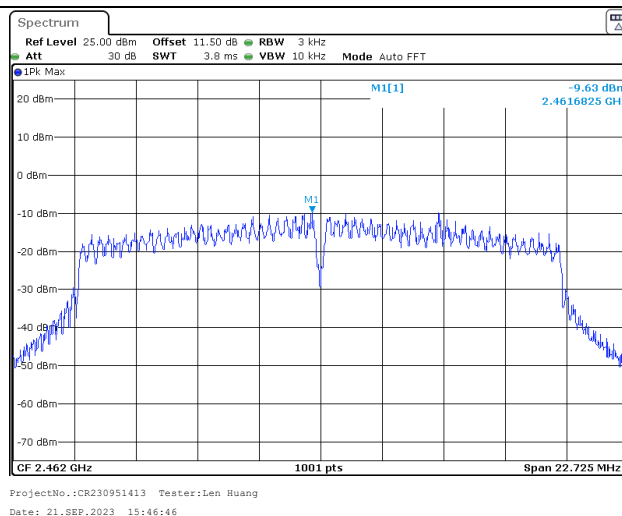
Maximum power spectral density

802.11b
Lowest Channel802.11b
Middle Channel802.11b
Highest Channel

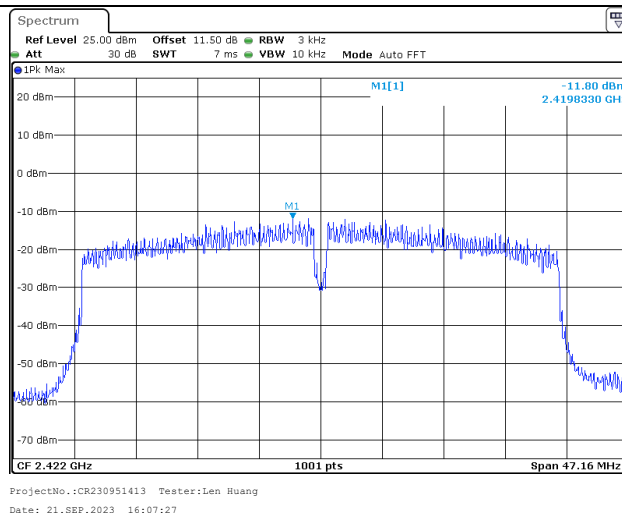
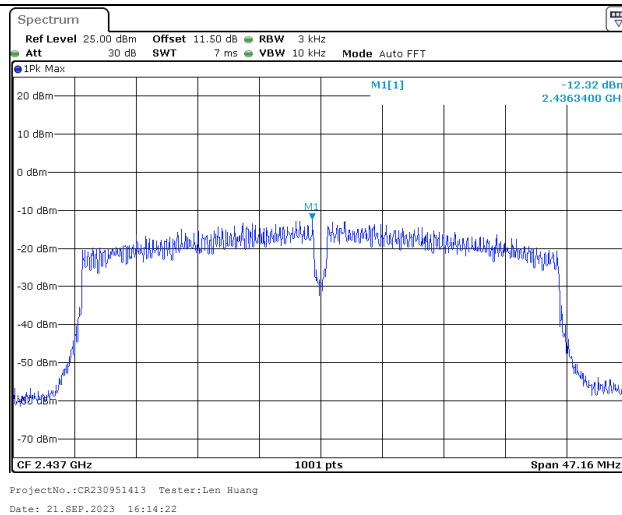
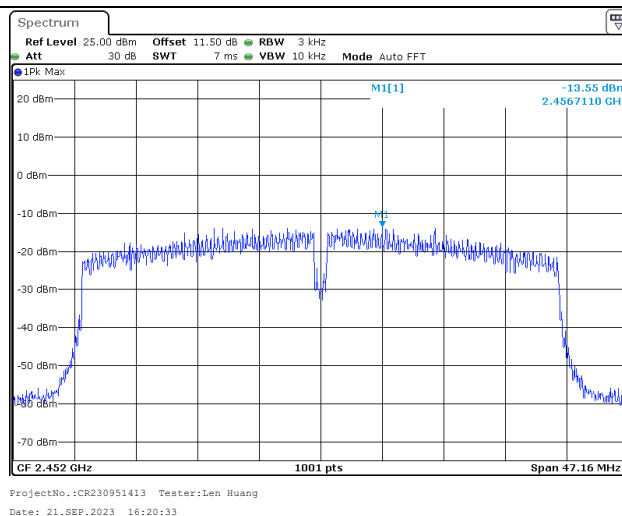
Maximum power spectral density

802.11g
Lowest Channel802.11g
Middle Channel802.11g
Highest Channel

Maximum power spectral density

802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

Maximum power spectral density

802.11n ht40
Lowest Channel802.11n ht40
Middle Channel802.11n ht40
Highest Channel

4.7 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	2ATU-2	Test Date:	2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

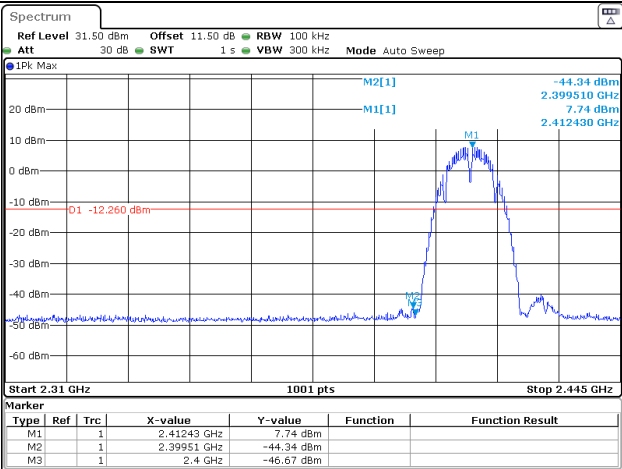
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

** 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:

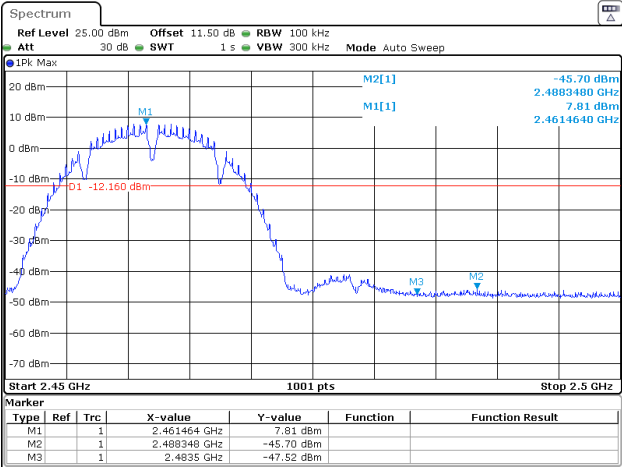
100 kHz Bandwidth of Frequency Band Edge

802.11b
Lowest Band edge



ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 14:42:48

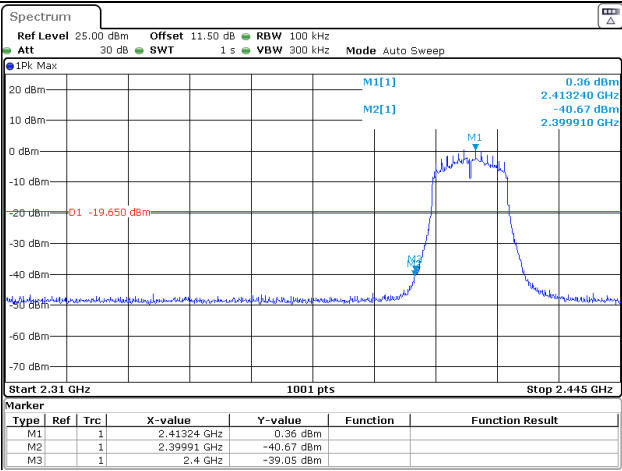
802.11b
Highest Band edge



ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 14:52:53

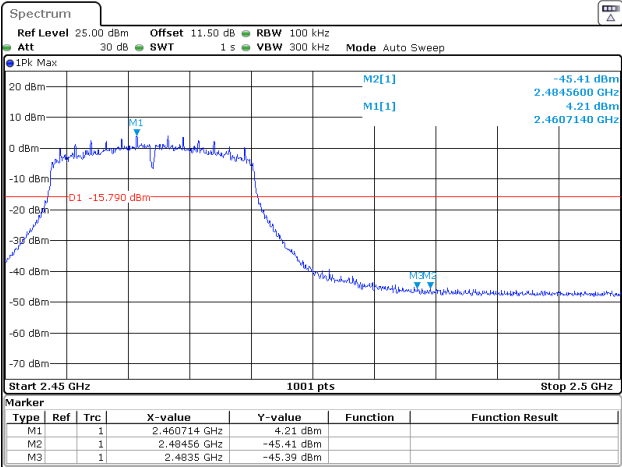
100 kHz Bandwidth of Frequency Band Edge

802.11g
Lowest Band edge



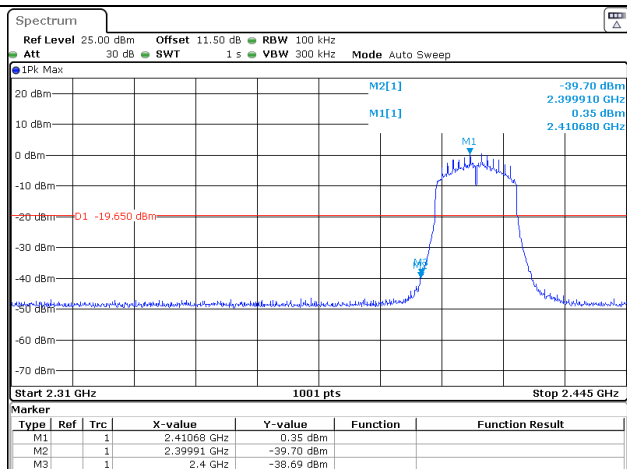
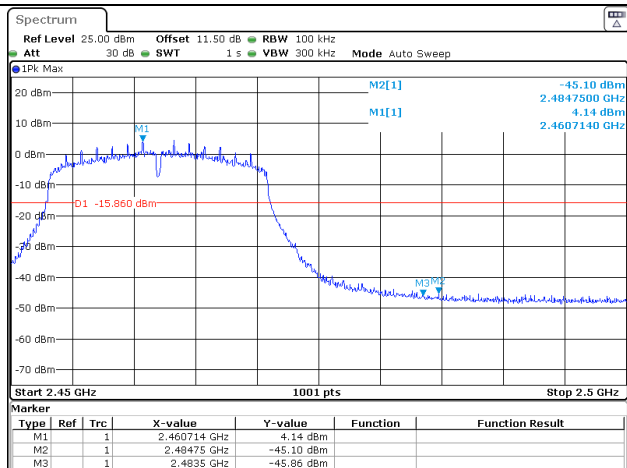
ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 15:19:39

802.11g
Highest Band edge

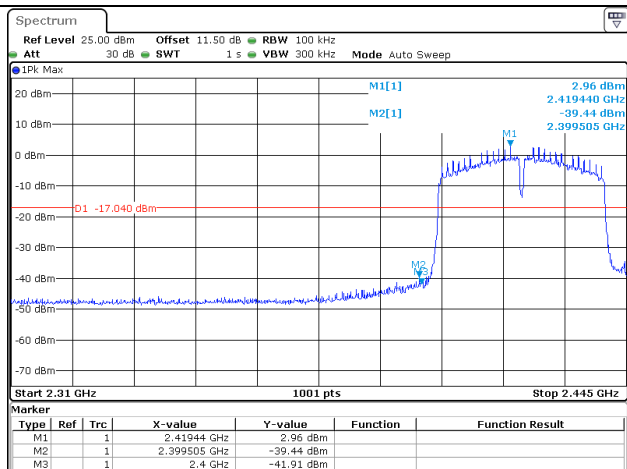
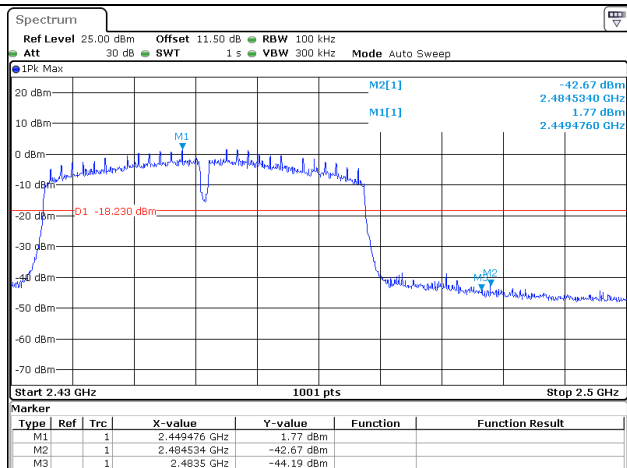


ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 15:30:04

100 kHz Bandwidth of Frequency Band Edge

802.11n ht20
Lowest Band edge802.11n ht20
Highest Band edge

100 kHz Bandwidth of Frequency Band Edge

802.11n ht40
Lowest Band edgeProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 16:10:44802.11n ht40
Highest Band edgeProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 16:23:02

4.8 Duty Cycle:

Serial Number:	2ATU-2	Test Date:	2023/9/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

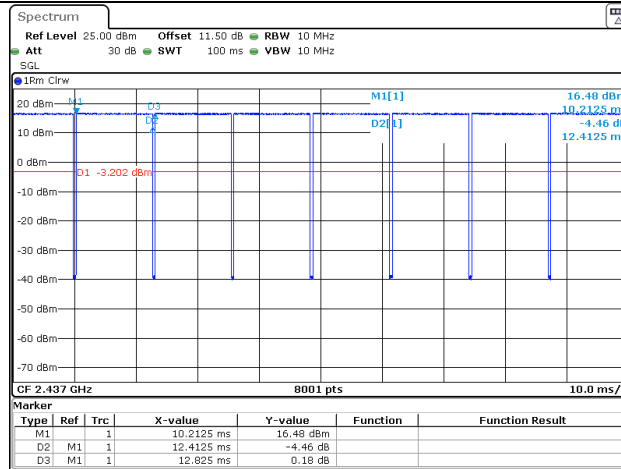
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
802.11b	12.4125	12.825	96.78	81	0.1
802.11g	2.0625	2.225	92.70	485	0.5
802.11n ht20	1.925	2.05	93.90	519	1
802.11n ht40	0.94	1.06	88.68	1064	2

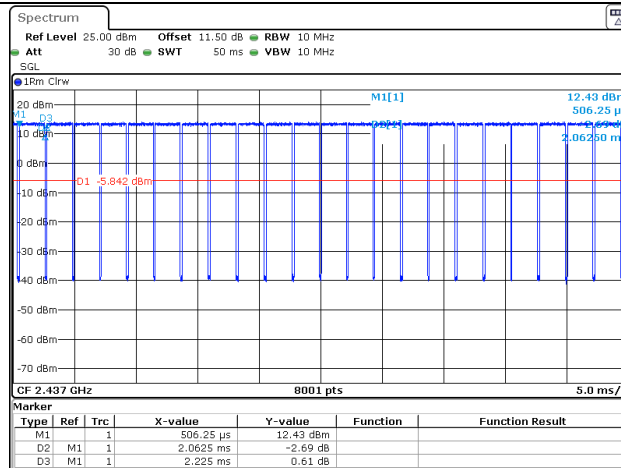
Duty Cycle

802.11b



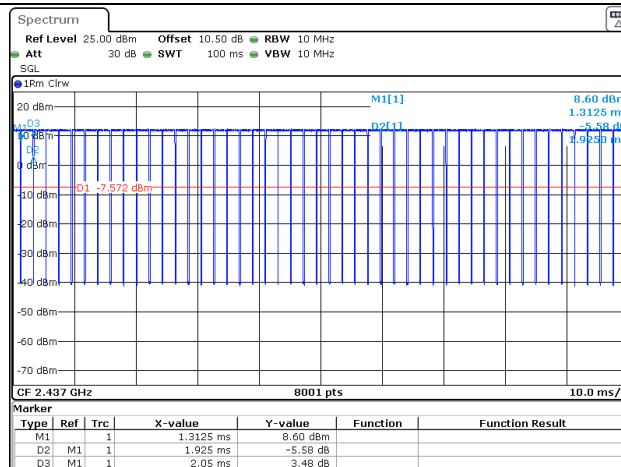
ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 14:43:55

802.11g



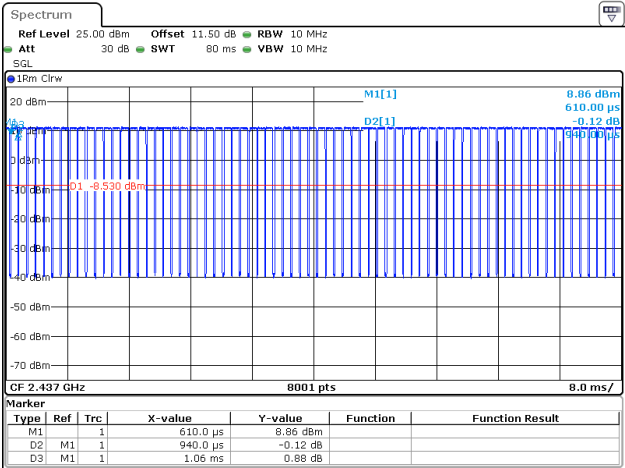
ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 15:20:28

802.11n ht20



ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 15:40:16

802.11n ht40



ProjectNo.:CR230951413 Tester:Len Huang
Date: 21.SEP.2023 16:12:00

5. RF EXPOSURE EVALUATION

5.1 MPE-Based Exemption

5.1.1 Applicable Standard

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	$19.2 R^2$.

5.1.2 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)				
2.4G Wi-Fi	2412-2462	19.80	200	768	28.85	23.0	6.6	27.45	Compliant
5.2G Wi-Fi	5180-5240	9.22	200	768	28.85	9.0	4.6	11.45	Compliant
5.8G Wi-Fi	5745-5825	8.31	200	768	28.85	14.0	5.0	16.85	Compliant

Note:

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

The 2.4G Wi-Fi and 5G Wi-Fi cannot transmit simultaneously.

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

6. EUT PHOTOGRAPHS

Please refer to the attachment CR230951413-EXP EUT EXTERNAL PHOTOGRAPHS and
CR230951413-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230951413-00A-TSP TEST SETUP PHOTOGRAPHS.

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