



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: INFINIX MOBILITY LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET FOTAN NT, Hong Kong

FCC ID: 2AIZN-X6853

Product Name: Mobile Phone

**Standard(s): 47 CFR Part 15, Subpart C(15.247)
ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02**

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

Report Number: CR231061506-00B

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Test Facility

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

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

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

Declarations

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CONTENTS

DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 DESCRIPTION OF TEST CONFIGURATION	8
1.2.1 EUT Operation Condition:.....	8
1.2.2 Support Equipment List and Details	8
1.2.3 Support Cable List and Details	8
1.2.4 Block Diagram of Test Setup.....	9
1.3 MEASUREMENT UNCERTAINTY	10
2. SUMMARY OF TEST RESULTS	11
3. REQUIREMENTS AND TEST PROCEDURES	12
3.1 AC LINE CONDUCTED EMISSIONS	12
3.1.1 Applicable Standard.....	12
3.1.2 EUT Setup.....	13
3.1.3 EMI Test Receiver Setup	13
3.1.4 Test Procedure	14
3.1.5 Corrected Amplitude & Margin Calculation.....	14
3.2 RADIATED SPURIOUS EMISSIONS	15
3.2.1 Applicable Standard.....	15
3.2.2 EUT Setup.....	15
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	16
3.2.4 Test Procedure	17
3.2.5 Corrected Amplitude & Margin Calculation.....	17
3.3 20 DB EMISSION BANDWIDTH	18
3.3.1 Applicable Standard.....	18
3.3.2 EUT Setup.....	18
3.3.3 Test Procedure	18
3.4 CHANNEL SEPARATION	20
3.4.1 Applicable Standard.....	20
3.4.2 EUT Setup.....	20
3.4.3 Test Procedure	20
3.5 NUMBER OF HOPPING FREQUENCY	21
3.5.1 Applicable Standard.....	21
3.5.2 EUT Setup.....	21
3.5.3 Test Procedure	21
3.6 TIME OF OCCUPANCY(DWELL TIME)	22
3.6.1 Applicable Standard.....	22
3.6.2 EUT Setup.....	22
3.6.3 Test Procedure	22
3.7 MAXIMUM CONDUCTED OUTPUT POWER	23
3.7.1 Applicable Standard.....	23
3.7.2 EUT Setup.....	23

3.7.3 Test Procedure23

3.8 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE24

3.8.1 Applicable Standard.....24

3.8.2 EUT Setup.....24

3.8.3 Test Procedure24

3.9 ANTENNA REQUIREMENT.....25

3.9.1 Applicable Standard.....25

3.9.2 Judgment.....25

4. TEST DATA AND RESULTS 26

4.1 AC LINE CONDUCTED EMISSIONS.....26

4.2 RADIATED SPURIOUS EMISSIONS.....35

4.3 20 dB EMISSION BANDWIDTH 78

4.4 CHANNEL SEPARATION86

4.5 NUMBER OF HOPPING FREQUENCY94

4.6 TIME OF OCCUPANCY (DWELL TIME)97

4.7 MAXIMUM CONDUCTED OUTPUT POWER105

4.8 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....113

5. RF EXPOSURE EVALUATION 126

5.1 APPLICABLE STANDARD.....126

6. EUT PHOTOGRAPHS 127

7. TEST SETUP PHOTOGRAPHS 128

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061506-00B	Original Report	2023/12/24

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Phone
EUT Model:	X6853
Operation Frequency:	2402-2480MHz
Maximum Peak Output Power (Conducted):	4.43dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	DC 5V/3A or 5-10V/4.5A or 11V/4.1A from Adapter or 3.91V from Battery
Serial Number:	RE/CE:2CII-5(Normal), 2CII-6(Lighting) RF:2CII-1
EUT Received Date:	2023/10/18
EUT Received Status:	Good

Note: the EUT has two versions, a normal version and a lighting version, the two versions were electrical identical except the NFC&WPT antennas, memory, color and lighting function. Please refer to the DOS letter for more details.

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
...
...
...	...	78	2480
39	2441	/	/

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

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2441
Highest	2480

Antenna Information Detail ▲ :

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain	
				Antenna 0 (Main Ant)	Antenna 1 (Aux Ant)
Dongguan Guangzheng Mold Plastic Co., Ltd	FPC	50	2.4~2.5GHz	-4.12 dBi	-3.37 dBi

The Method of §15.203 Compliance:

- Antenna was permanently attached to the unit.
 Antenna use a unique type of connector to attach to the EUT.
 Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters	S/N
Adapter 1	Infinix	U450XSB	Input: 100-240V~50/60Hz 1.8A Output: 5.0V 3.0A 15W or 5.0-10.0V 4.5A or 11.0V 4.1A 45.0W MAX	AH07019153927
Adapter 2	Infinix	U450XSB	Input: 100-240V~50/60Hz 1.8A Output: 5.0V 3.0A 15W or 5.0-10.0V 4.5A or 11.0V 4.1A 45.0W MAX	KX07019453A12

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:	No		
EUT Exercise Software:	Engineering Mode		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:			
Test Modes	Power Level Setting		
	Lowest	Middle	Highest
GFSK	6	6	6
$\pi/4$ -DQPSK	6	6	6
8DPSK	6	6	6

Note: the EUT has two antennas for Bluetooth, but only support the SISO mode.

1.2.2 Support Equipment List and Details

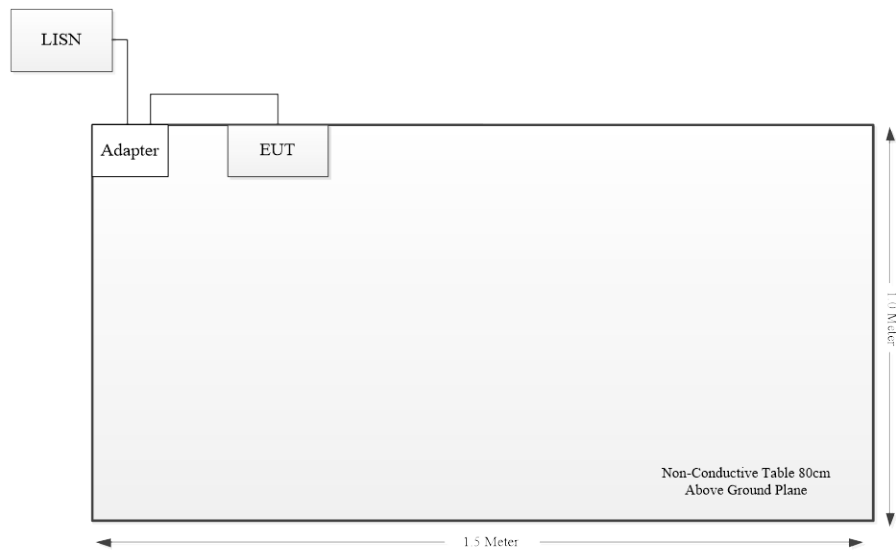
Manufacturer	Description	Model	Serial Number
Infinix	Adapter 1	U450XSB	AH07019153927
Infinix	Adapter 2	U450XSB	KX07019453A12

1.2.3 Support Cable List and Details

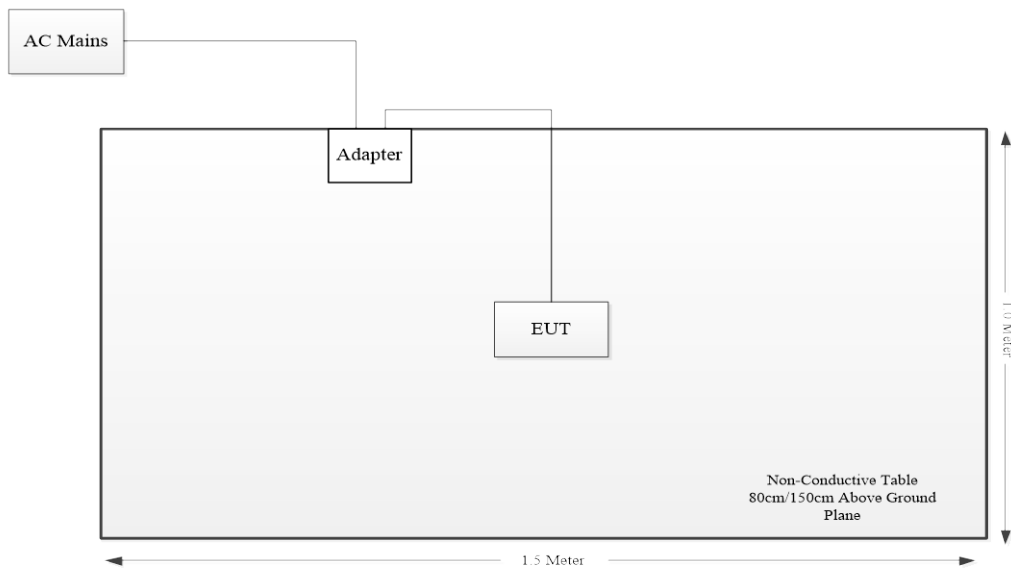
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	NO	NO	0.8	Adapter	EUT
Power Cable	NO	NO	0.8	Adapter 2	EUT

1.2.4 Block Diagram of Test Setup

AC Line Conducted Emissions:



Spurious emissions:



1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB,30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii)	Number Of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii)	Time Of Occupancy (dwell time)	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth Of Frequency Band Edge	Compliant
FCC §15.203	Antenna Requirement	Compliant
FCC§15.247 (i) & §1.1310	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:

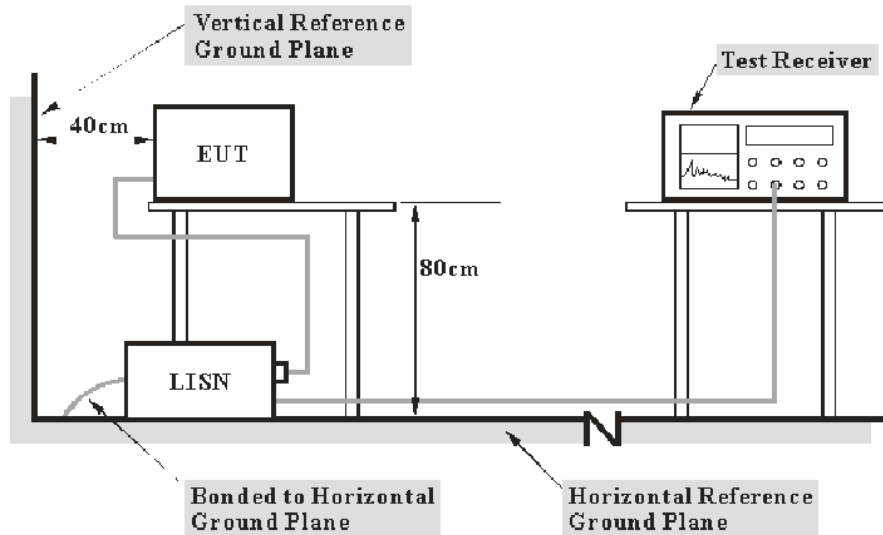
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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 Radiated Spurious Emissions

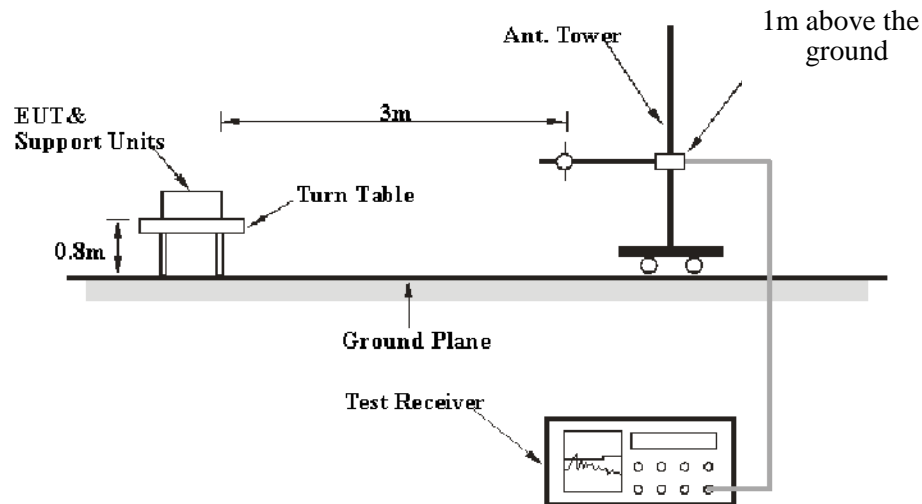
3.2.1 Applicable Standard

FCC §15.247 (d);

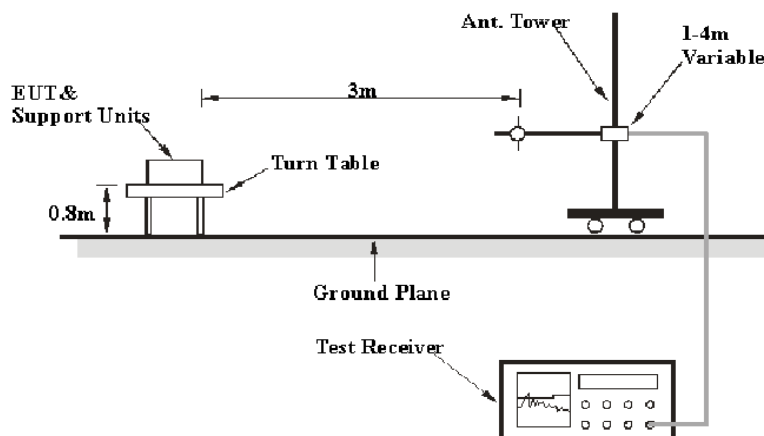
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

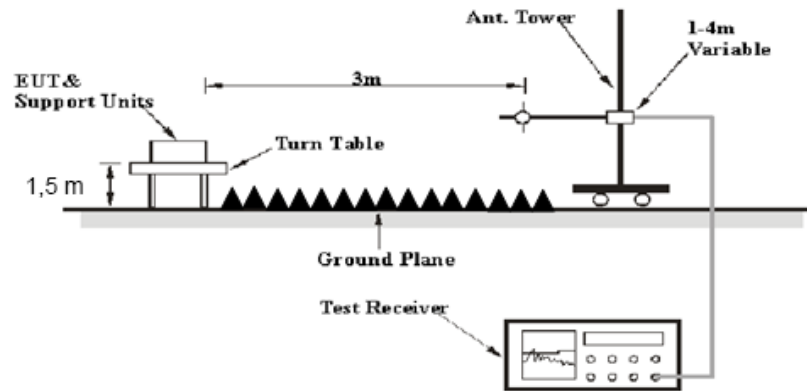
3.2.2 EUT Setup

9 kHz-30MHz:



30MHz-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 9 kHz to 25 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	AV

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 9 kHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

The spurious emissions which below the limit more than 20dB was not be recorded.

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

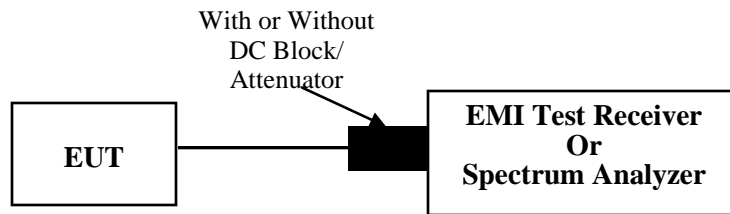
3.3 20 dB Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five 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 video bandwidth (VBW) shall be approximately three times 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 $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) 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).

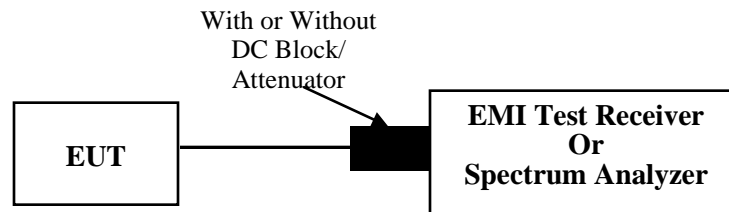
3.4 Channel Separation

3.4.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) \geq RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

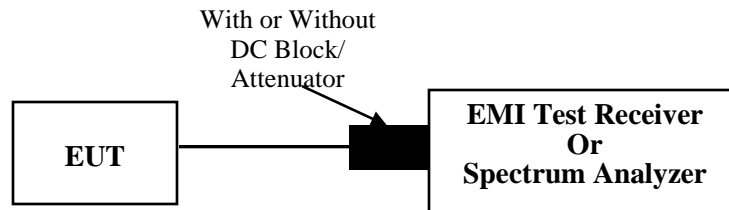
3.5 Number Of Hopping Frequency

3.5.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.3

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW \geq RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize

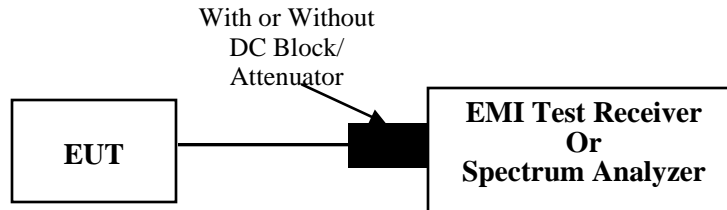
It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

3.6 Time Of Occupancy(Dwell Time)

3.6.1 Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.4

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be \leq channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

$$(\text{Number of hops in the period specified in the requirements}) = (\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})$$

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

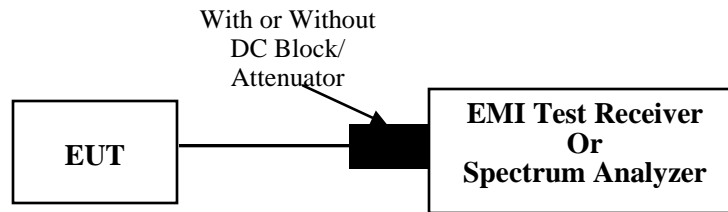
3.7 Maximum Conducted Output Power

3.7.1 Applicable Standard

FCC §15.247 (b)(1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

3.7.2 EUT Setup



3.7.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation, Offset the Insertion loss of the RF cable, DC Block/ Attenuator into the spectrum analyzer. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW \geq RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

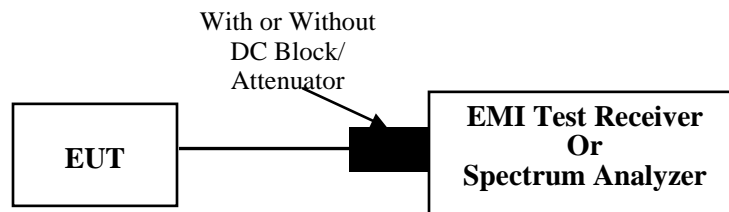
3.8 100 kHz Bandwidth Of Frequency Band Edge

3.8.1 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)).

3.8.2 EUT Setup



3.8.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.6

For band-edge measurements, use the band-edge procedure in 6.10. Band-edge measurements shall be tested both on single channels, and with the EUT hopping.

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) 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. Report the three highest emissions relative to the limit.

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:	2CII-5&2CII-6	Test Date:	2023/11/9~2023/12/22
Test Site:	CE	Test Mode:	Transmitting (Maximum output power mode: Antenna 0 BDR mode Middle channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.2-26.5	Relative Humidity: (%)	23-58	ATM Pressure: (kPa)	100.9-102.6
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Test Equipment List and Details:

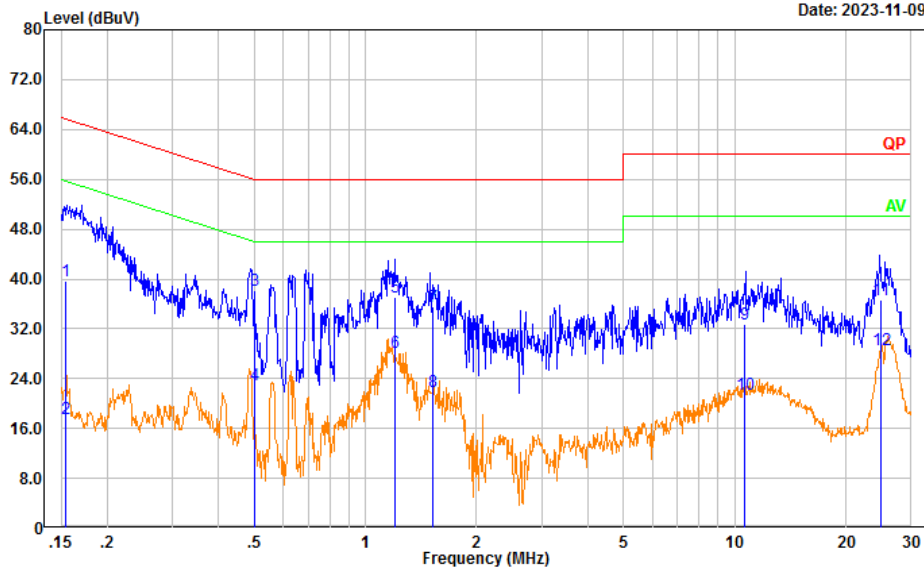
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* 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).

2CII-6: Adapter1

Project No.: CR231061506-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(BT)

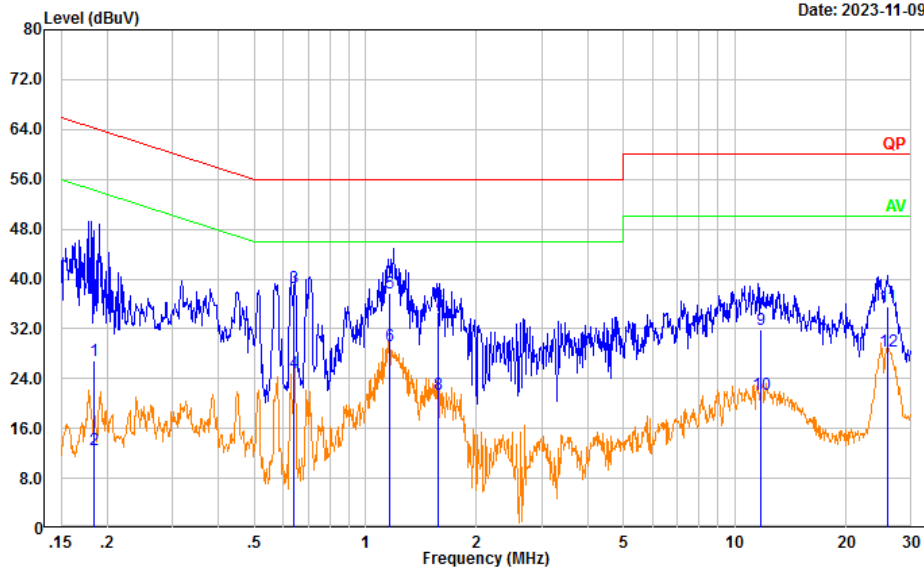
Date: 2023-11-09



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.154	30.04	9.61	39.65	65.75	26.10	QP
2	0.154	7.98	9.61	17.59	55.75	38.16	Average
3	0.500	28.50	9.61	38.11	56.00	17.89	QP
4	0.500	13.45	9.61	23.06	46.00	22.94	Average
5	1.203	27.51	9.62	37.13	56.00	18.87	QP
6	1.203	18.48	9.62	28.10	46.00	17.90	Average
7	1.527	25.84	9.63	35.47	56.00	20.53	QP
8	1.527	12.31	9.63	21.94	46.00	24.06	Average
9	10.632	23.08	9.67	32.75	60.00	27.25	QP
10	10.632	11.83	9.67	21.50	50.00	28.50	Average
11	24.872	26.82	9.81	36.63	60.00	23.37	QP
12	24.872	18.89	9.81	28.70	50.00	21.30	Average

Project No.: CR231061506-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)

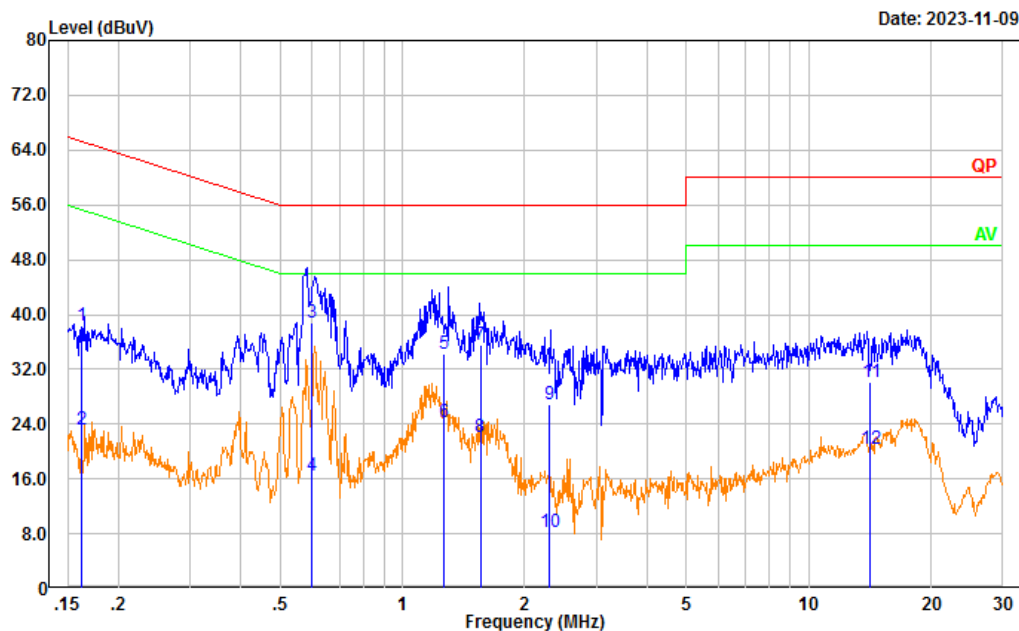
Date: 2023-11-09



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.185	17.26	9.61	26.87	64.27	37.40	QP
2	0.185	3.01	9.61	12.62	54.27	41.65	Average
3	0.639	29.03	9.62	38.65	56.00	17.35	QP
4	0.639	15.21	9.62	24.83	46.00	21.17	Average
5	1.164	28.16	9.62	37.78	56.00	18.22	QP
6	1.164	19.59	9.62	29.21	46.00	16.79	Average
7	1.575	25.14	9.63	34.77	56.00	21.23	QP
8	1.575	11.78	9.63	21.41	46.00	24.59	Average
9	11.718	22.11	9.67	31.78	60.00	28.22	QP
10	11.718	11.78	9.67	21.45	50.00	28.55	Average
11	25.855	25.75	9.78	35.53	60.00	24.47	QP
12	25.855	18.70	9.78	28.48	50.00	21.52	Average

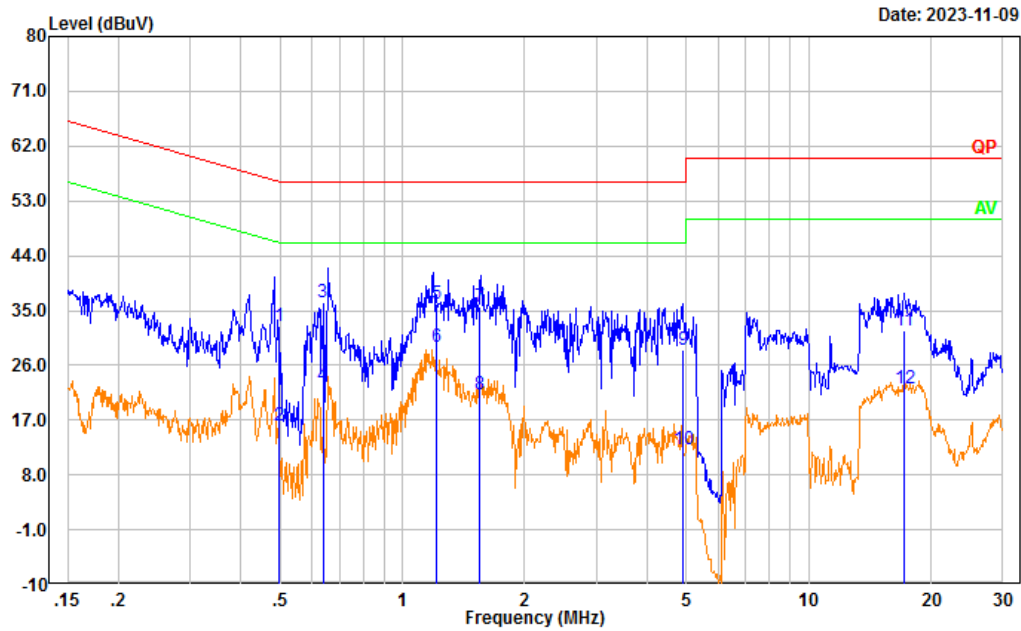
2CII-5: Adapter1

Project No.: CR231061506-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.162	28.73	9.61	38.34	65.35	27.01	QP
2	0.162	13.56	9.61	23.17	55.35	32.18	Average
3	0.599	29.17	9.62	38.79	56.00	17.21	QP
4	0.599	6.93	9.62	16.55	46.00	29.45	Average
5	1.262	24.58	9.62	34.20	56.00	21.80	QP
6	1.262	14.63	9.62	24.25	46.00	21.75	Average
7	1.554	25.91	9.63	35.54	56.00	20.46	QP
8	1.554	12.43	9.63	22.06	46.00	23.94	Average
9	2.291	17.30	9.64	26.94	56.00	29.06	QP
10	2.291	-1.48	9.64	8.16	46.00	37.84	Average
11	14.170	20.43	9.68	30.11	60.00	29.89	QP
12	14.170	10.79	9.68	20.47	50.00	29.53	Average

Project No.: CR231061506-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)



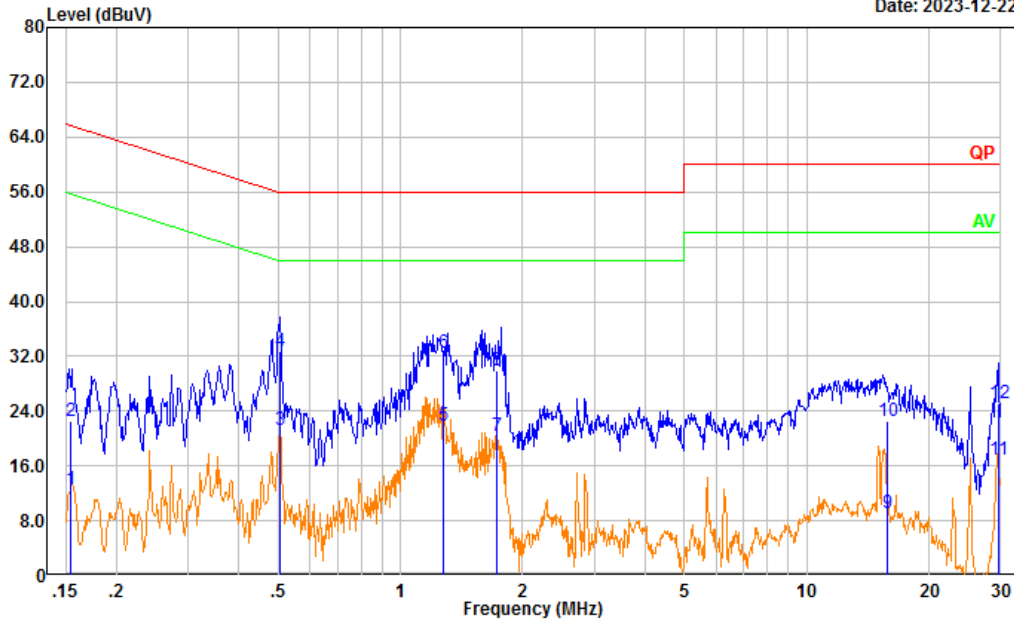
Date: 2023-11-09

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.497	22.87	9.61	32.48	56.05	23.57	QP
2	0.497	6.41	9.61	16.02	46.05	30.03	Average
3	0.637	26.68	9.62	36.30	56.00	19.70	QP
4	0.637	12.99	9.62	22.61	46.00	23.39	Average
5	1.214	26.42	9.62	36.04	56.00	19.96	QP
6	1.214	19.29	9.62	28.91	46.00	17.09	Average
7	1.553	25.89	9.63	35.52	56.00	20.48	QP
8	1.553	11.50	9.63	21.13	46.00	24.87	Average
9	4.904	18.81	9.66	28.47	56.00	27.53	QP
10	4.904	2.53	9.66	12.19	46.00	33.81	Average
11	17.150	22.05	9.69	31.74	60.00	28.26	QP
12	17.150	12.58	9.69	22.27	50.00	27.73	Average

2CII-6: Adapter2

Project No.: CR231061506-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(BT)

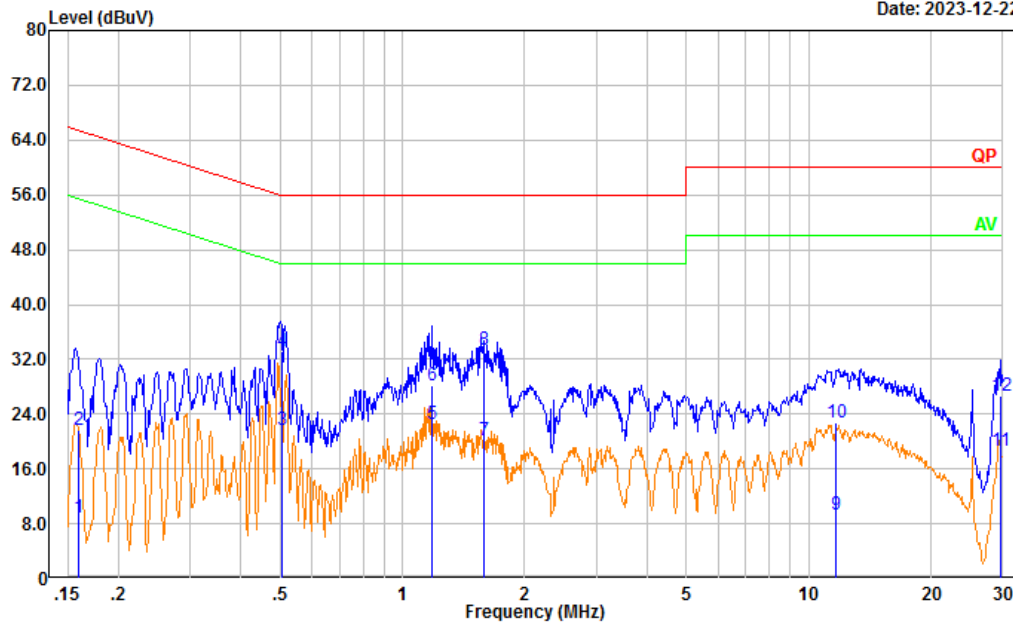
Date: 2023-12-22



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.154	2.94	9.61	12.55	55.78	43.23	Average
2	0.154	12.90	9.61	22.51	65.78	43.27	QP
3	0.506	11.62	9.61	21.23	46.00	24.77	Average
4	0.506	23.15	9.61	32.76	56.00	23.24	QP
5	1.275	12.27	9.62	21.89	46.00	24.11	Average
6	1.275	22.81	9.62	32.43	56.00	23.57	QP
7	1.722	10.68	9.63	20.31	46.00	25.69	Average
8	1.722	20.26	9.63	29.89	56.00	26.11	QP
9	15.811	-0.69	9.71	9.02	50.00	40.98	Average
10	15.811	12.91	9.71	22.62	60.00	37.38	QP
11	29.624	7.17	9.82	16.99	50.00	33.01	Average
12	29.624	15.37	9.82	25.19	60.00	34.81	QP

Project No.: CR231061506-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)

Date: 2023-12-22

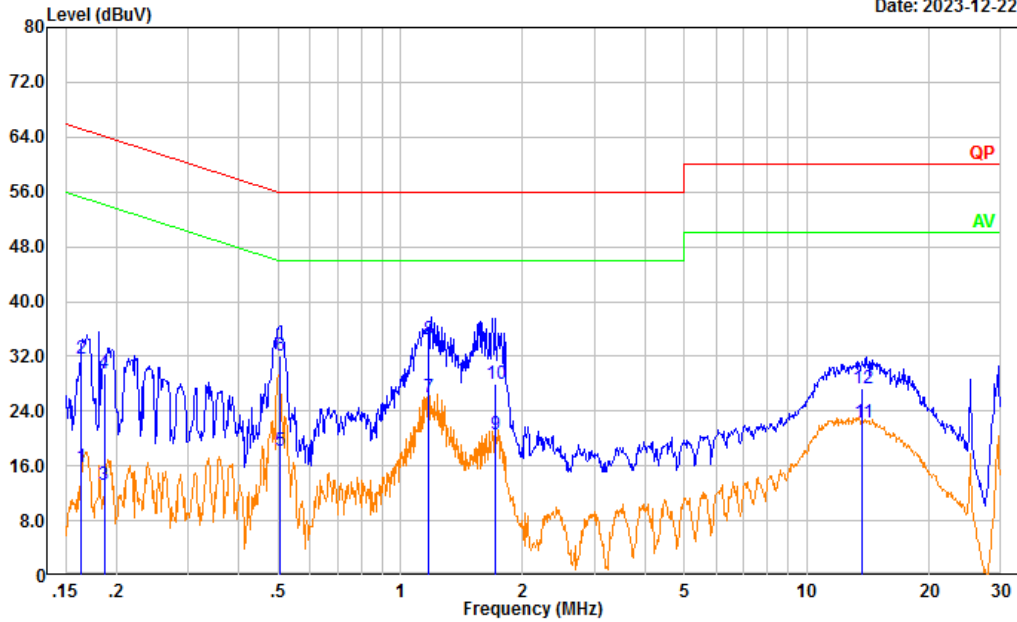


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.159	-0.73	9.61	8.88	55.49	46.61	Average
2	0.159	12.02	9.61	21.63	65.49	43.86	QP
3	0.505	12.03	9.61	21.64	46.00	24.36	Average
4	0.505	23.52	9.61	33.13	56.00	22.87	QP
5	1.181	12.87	9.62	22.49	46.00	23.51	Average
6	1.181	18.67	9.62	28.29	56.00	27.71	QP
7	1.588	10.52	9.63	20.15	46.00	25.85	Average
8	1.588	23.85	9.63	33.48	56.00	22.52	QP
9	11.649	-0.32	9.67	9.35	50.00	40.65	Average
10	11.649	13.07	9.67	22.74	60.00	37.26	QP
11	29.660	8.77	9.82	18.59	50.00	31.41	Average
12	29.660	16.91	9.82	26.73	60.00	33.27	QP

2CII-5: Adapter2

Project No.: CR231061506-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(BT)

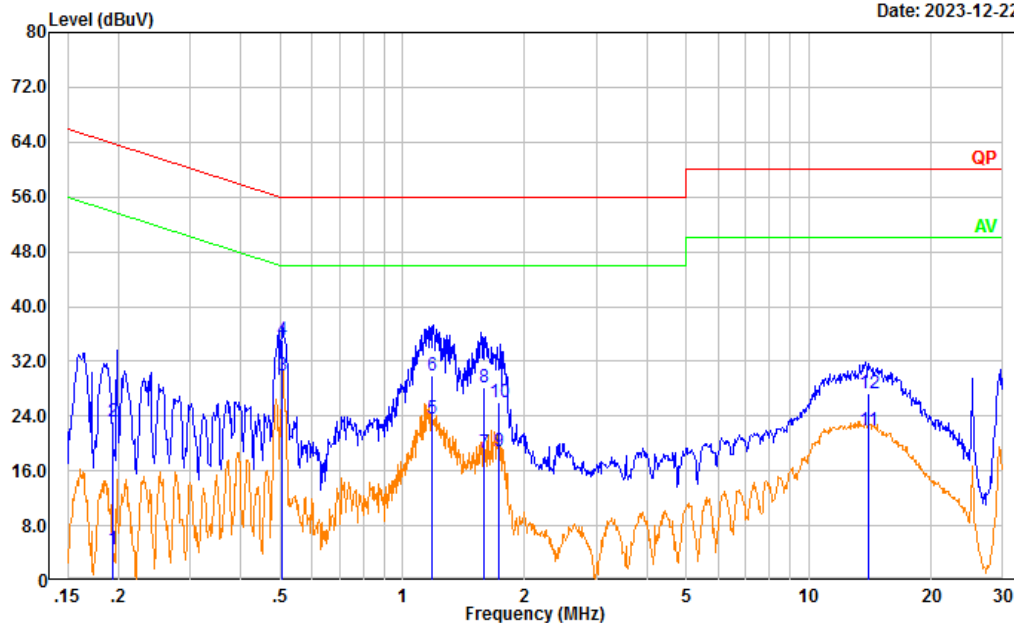
Date: 2023-12-22



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.164	6.11	9.61	15.72	55.25	39.53	Average
2	0.164	22.01	9.61	31.62	65.25	33.63	QP
3	0.187	3.64	9.61	13.25	54.19	40.94	Average
4	0.187	19.87	9.61	29.48	64.19	34.71	QP
5	0.505	8.70	9.61	18.31	46.00	27.69	Average
6	0.505	22.53	9.61	32.14	56.00	23.86	QP
7	1.168	16.44	9.62	26.06	46.00	19.94	Average
8	1.168	24.84	9.62	34.46	56.00	21.54	QP
9	1.709	11.05	9.63	20.68	46.00	25.32	Average
10	1.709	18.34	9.63	27.97	56.00	28.03	QP
11	13.707	12.73	9.68	22.41	50.00	27.59	Average
12	13.707	17.64	9.68	27.32	60.00	32.68	QP

Project No.: CR231061506-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)

Date: 2023-12-22



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.193	-4.97	9.61	4.64	53.89	49.25	Average
2	0.193	13.56	9.61	23.17	63.89	40.72	QP
3	0.505	20.28	9.61	29.89	46.00	16.11	Average
4	0.505	25.59	9.61	35.20	56.00	20.80	QP
5	1.180	14.03	9.62	23.65	46.00	22.35	Average
6	1.180	20.21	9.62	29.83	56.00	26.17	QP
7	1.589	8.95	9.63	18.58	46.00	27.42	Average
8	1.589	18.55	9.63	28.18	56.00	27.82	QP
9	1.722	9.14	9.63	18.77	46.00	27.23	Average
10	1.722	16.44	9.63	26.07	56.00	29.93	QP
11	14.015	12.31	9.68	21.99	50.00	28.01	Average
12	14.015	17.56	9.68	27.24	60.00	32.76	QP

4.2 Radiated Spurious Emissions

Serial Number:	2CII-6,2CII-5	Test Date:	2023/11/11~2023/12/23
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Carl Xue, Coco Tian	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	24-26.3	Relative Humidity: (%)	38-57	ATM Pressure: (kPa)	101.1-102.6

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
BACL	Loop Antenna	1313-1P	3092721	2023/11/9	2026/11/8
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
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
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	2023/11/8	2024/11/7
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

* 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.

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

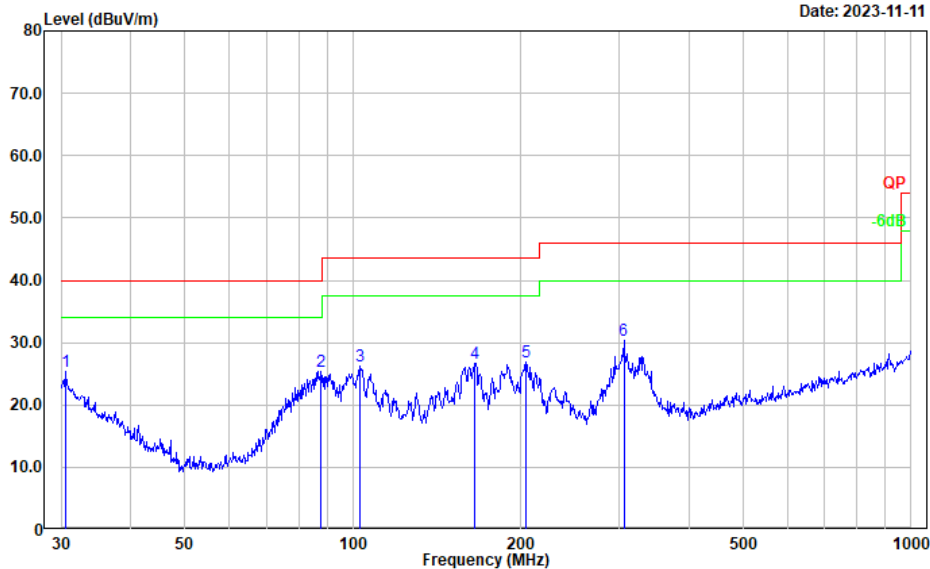
For the radiated spurious emission below 30MHz, the emission was 20dB below the limit, so it is not recorded.

1) 30MHz-1GHz (Maximum output power mode at antenna 0)

2CII-6 Adapter1:

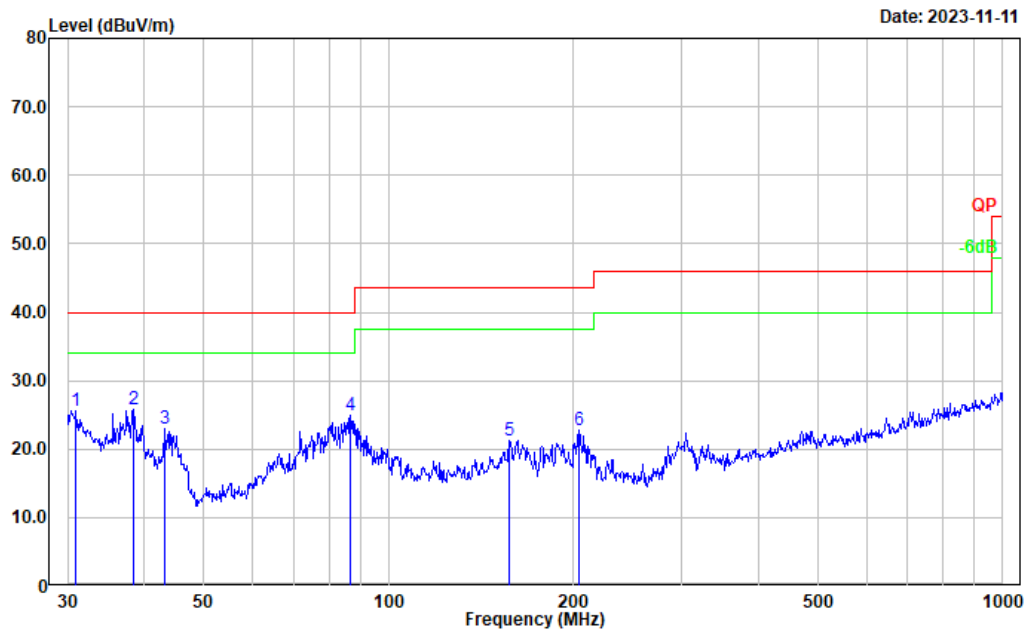
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK Low Channel)

Date: 2023-11-11



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	29.47	-4.20	25.27	40.00	14.73	Peak
2	87.725	42.49	-17.04	25.45	40.00	14.55	Peak
3	102.719	39.97	-13.79	26.18	43.50	17.32	Peak
4	165.487	39.02	-12.41	26.61	43.50	16.89	Peak
5	204.238	39.30	-12.33	26.97	43.50	16.53	Peak
6	305.680	40.91	-10.57	30.34	46.00	15.66	Peak

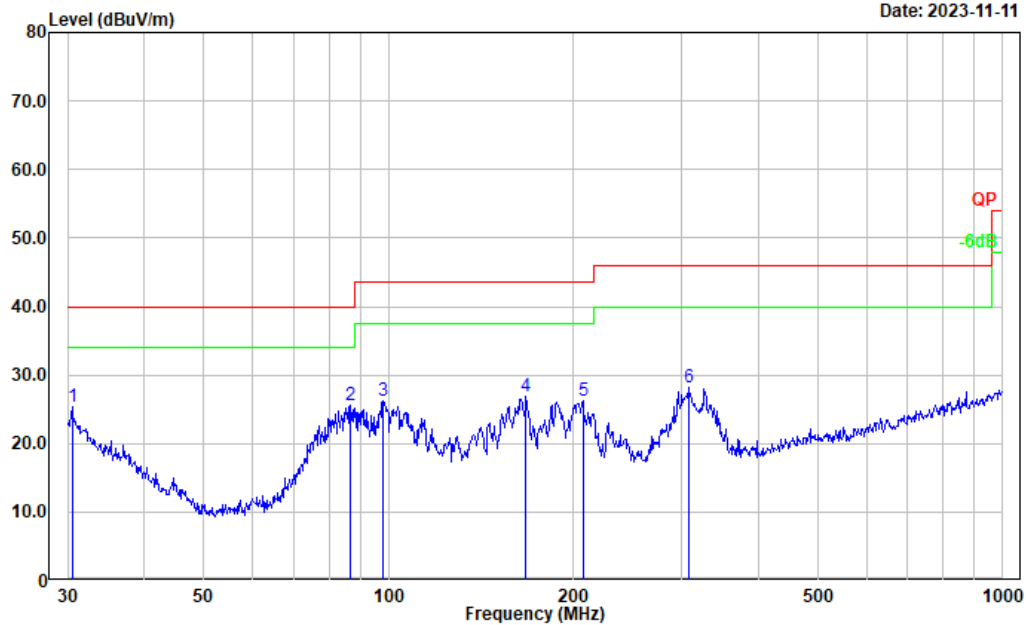
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK Low Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.962	30.18	-4.53	25.65	40.00	14.35	Peak
2	38.346	36.02	-10.12	25.90	40.00	14.10	Peak
3	43.202	36.14	-13.23	22.91	40.00	17.09	Peak
4	86.807	42.08	-17.10	24.98	40.00	15.02	Peak
5	157.559	33.21	-11.95	21.26	43.50	22.24	Peak
6	204.238	35.11	-12.33	22.78	43.50	20.72	Peak

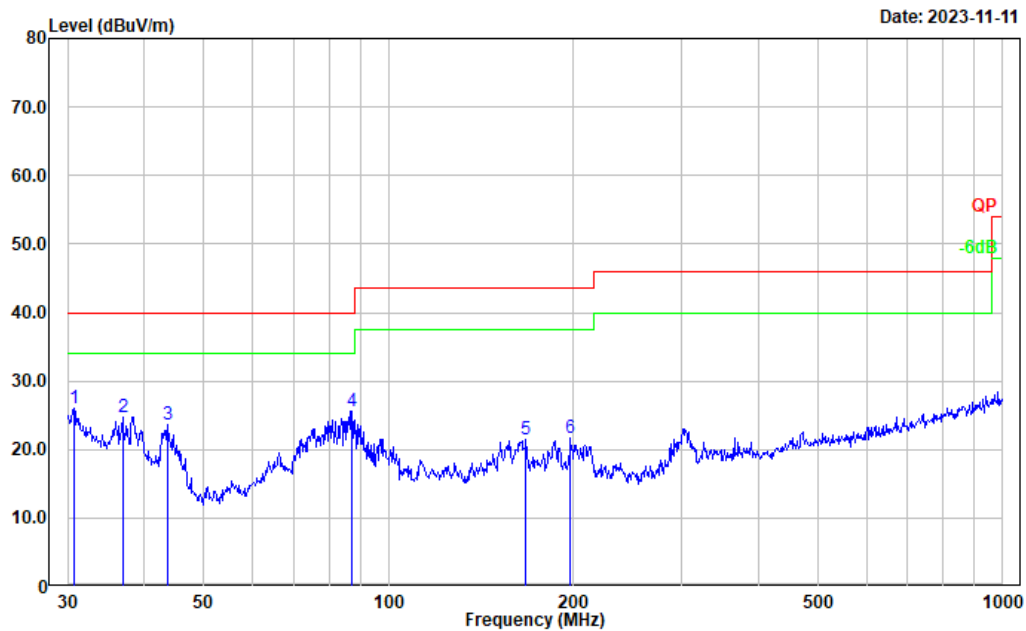
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(2CIH-1 BDR Mode GFSK Middle Channel)

Date: 2023-11-11



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	30.531	29.63	-4.20	25.43	40.00	14.57	Peak
2	86.807	42.74	-17.10	25.64	40.00	14.36	Peak
3	97.798	40.99	-14.85	26.14	43.50	17.36	Peak
4	167.237	39.47	-12.59	26.88	43.50	16.62	Peak
5	207.123	38.55	-12.41	26.14	43.50	17.36	Peak
6	307.831	38.67	-10.59	28.08	46.00	17.92	Peak

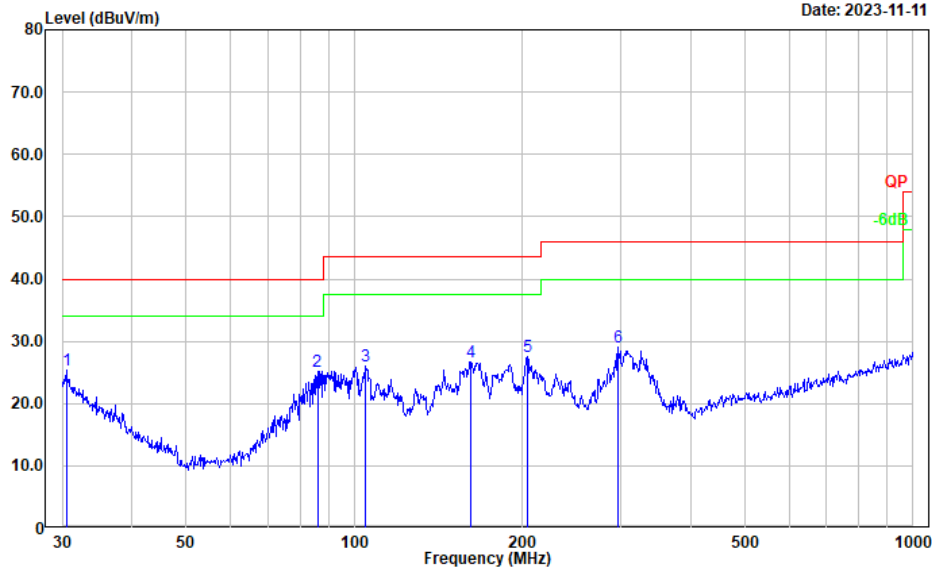
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(2CIH-1 BDR Mode GFSK Middle Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.745	30.29	-4.36	25.93	40.00	14.07	Peak
2	36.895	33.87	-9.06	24.81	40.00	15.19	Peak
3	43.659	37.21	-13.49	23.72	40.00	16.28	Peak
4	87.112	42.71	-17.08	25.63	40.00	14.37	Peak
5	167.237	34.12	-12.59	21.53	43.50	21.97	Peak
6	197.893	34.08	-12.45	21.63	43.50	21.87	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK High Channel)

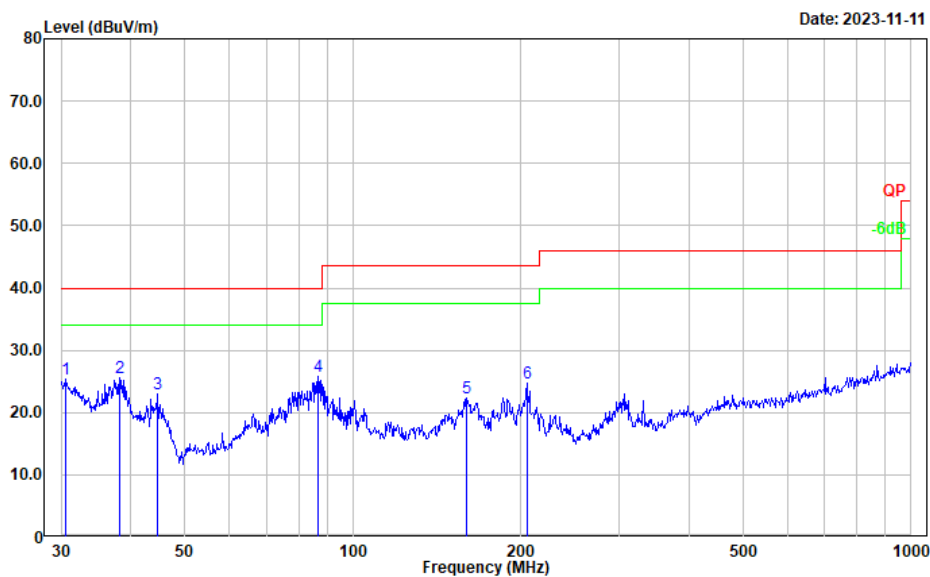
Date: 2023-11-11



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	29.54	-4.20	25.34	40.00	14.66	Peak
2	85.898	42.39	-17.15	25.24	40.00	14.76	Peak
3	104.903	39.32	-13.38	25.94	43.50	17.56	Peak
4	161.474	38.77	-12.11	26.66	43.50	16.84	Peak
5	204.238	39.89	-12.33	27.56	43.50	15.94	Peak
6	297.224	39.76	-10.71	29.05	46.00	16.95	Peak

;

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK High Channel)

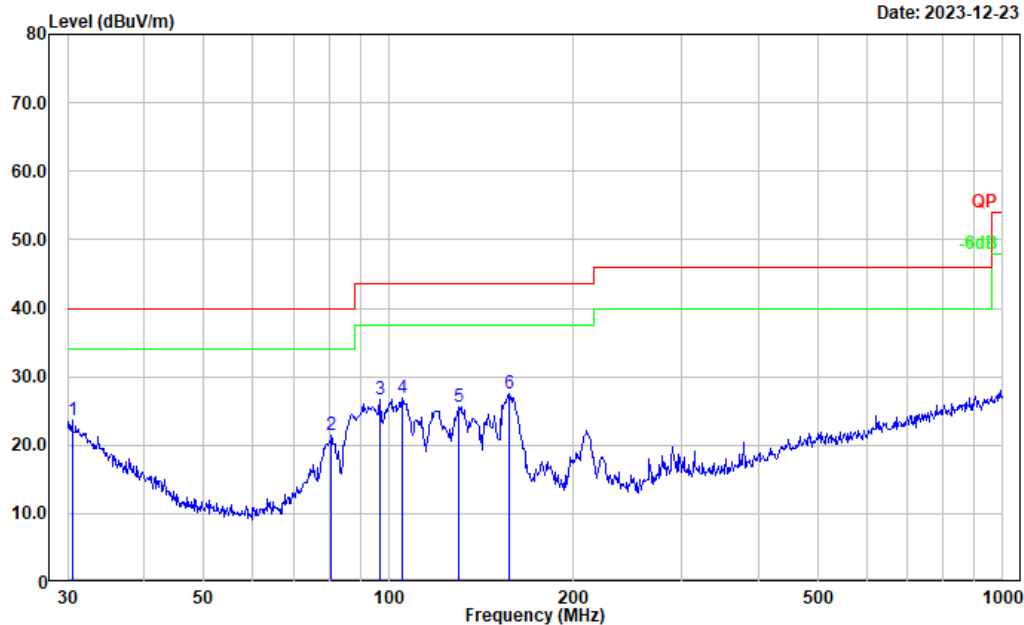


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	29.69	-4.28	25.41	40.00	14.59	Peak
2	38.212	35.58	-10.02	25.56	40.00	14.44	Peak
3	44.743	36.97	-14.08	22.89	40.00	17.11	Peak
4	86.807	42.82	-17.10	25.72	40.00	14.28	Peak
5	159.784	34.25	-11.95	22.30	43.50	21.20	Peak
6	204.955	37.15	-12.37	24.78	43.50	18.72	Peak

2CII-6 Adapter2:

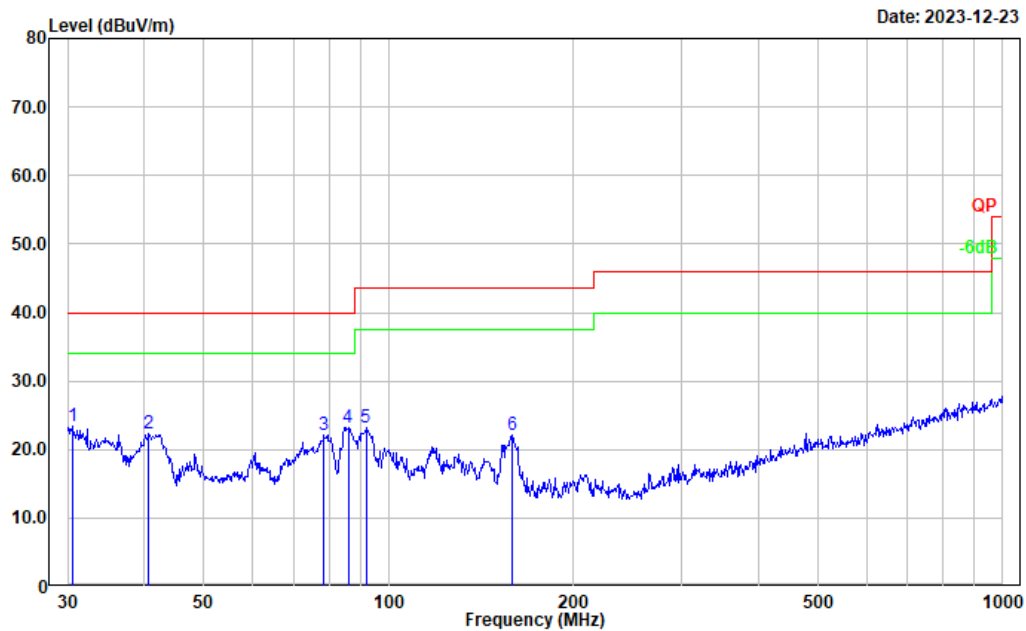
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK Low Channel)

Date: 2023-12-23



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	28.14	-4.53	23.61	40.00	16.39	Peak
2	80.644	39.15	-17.77	21.38	40.00	18.62	Peak
3	96.775	42.13	-15.45	26.68	43.50	16.82	Peak
4	105.272	40.52	-13.61	26.91	43.50	16.59	Peak
5	130.379	37.30	-11.64	25.66	43.50	17.84	Peak
6	157.559	39.83	-12.35	27.48	43.50	16.02	Peak

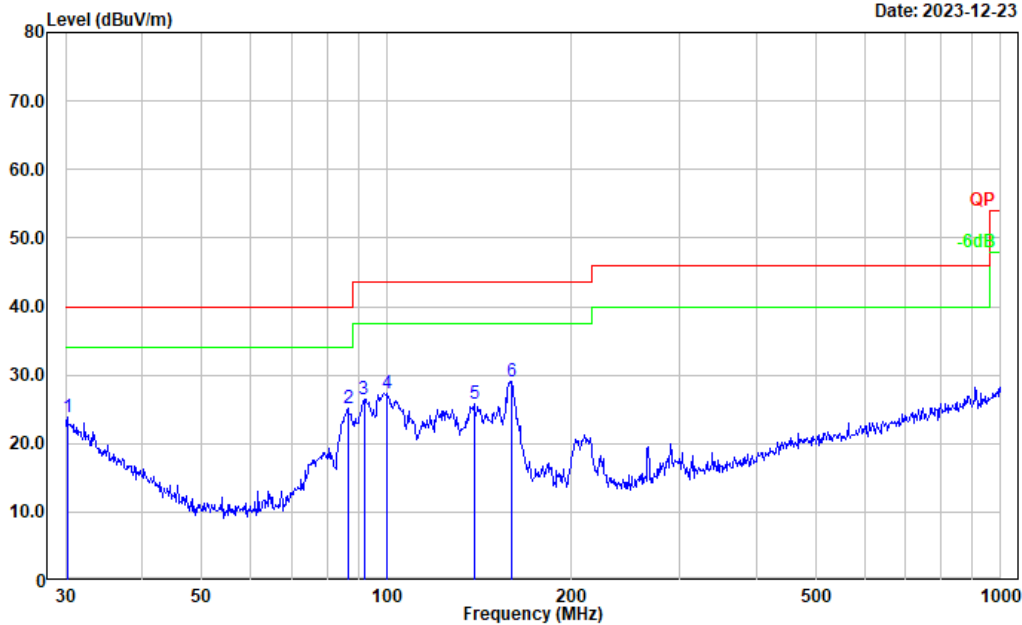
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK Low Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	28.04	-4.61	23.43	40.00	16.57	Peak
2	40.702	34.45	-12.12	22.33	40.00	17.67	Peak
3	78.413	39.73	-17.68	22.05	40.00	17.95	Peak
4	85.898	40.76	-17.49	23.27	40.00	16.73	Peak
5	91.816	40.07	-16.79	23.28	43.50	20.22	Peak
6	159.225	34.52	-12.36	22.16	43.50	21.34	Peak

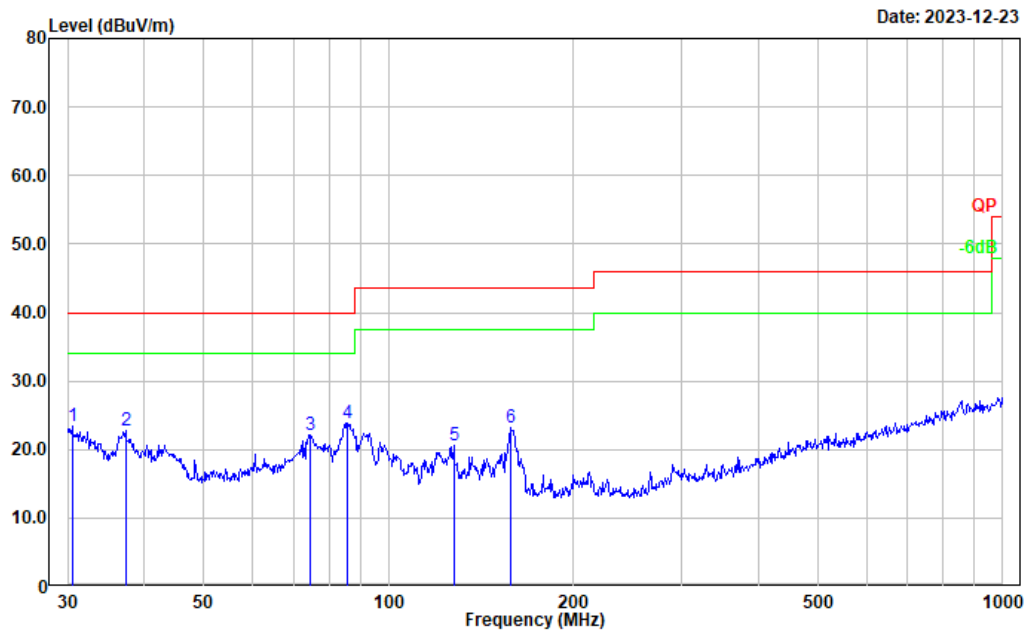
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK Middle Channel)

Date: 2023-12-23



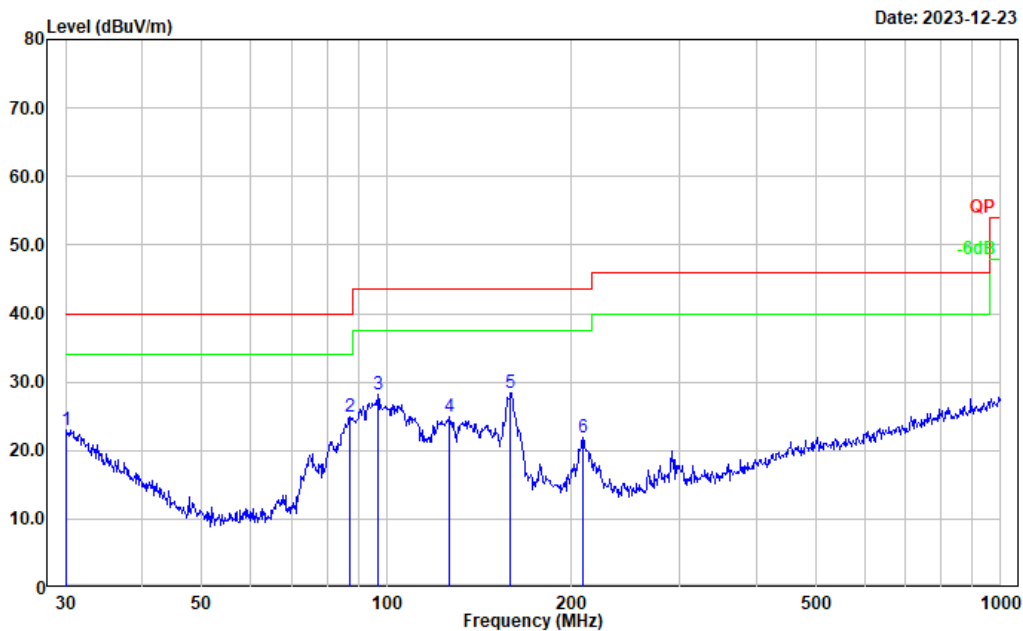
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	28.22	-4.28	23.94	40.00	16.06	Peak
2	86.503	42.50	-17.44	25.06	40.00	14.94	Peak
3	91.816	43.30	-16.79	26.51	43.50	16.99	Peak
4	100.229	41.96	-14.59	27.37	43.50	16.13	Peak
5	138.874	37.75	-12.01	25.74	43.50	17.76	Peak
6	159.784	41.44	-12.36	29.08	43.50	14.42	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK Middle Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.94	-4.53	23.41	40.00	16.59	Peak
2	37.285	32.52	-9.66	22.86	40.00	17.14	Peak
3	74.657	39.42	-17.34	22.08	40.00	17.92	Peak
4	85.598	41.41	-17.49	23.92	40.00	16.08	Peak
5	127.665	32.37	-11.67	20.70	43.50	22.80	Peak
6	158.112	35.52	-12.36	23.16	43.50	20.34	Peak

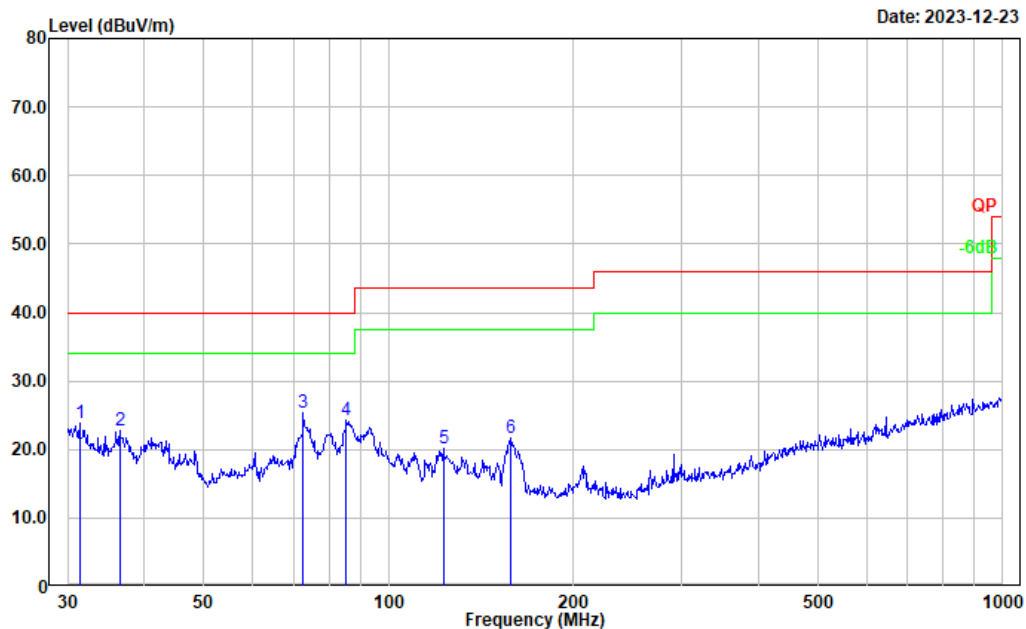
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK High Channel)



Date: 2023-12-23

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.16	-4.12	23.04	40.00	16.96	Peak
2	87.112	42.27	-17.41	24.86	40.00	15.14	Peak
3	96.775	43.73	-15.45	28.28	43.50	15.22	Peak
4	126.772	36.59	-11.72	24.87	43.50	18.63	Peak
5	159.225	40.74	-12.36	28.38	43.50	15.12	Peak
6	208.580	34.72	-12.91	21.81	43.50	21.69	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK High Channel)

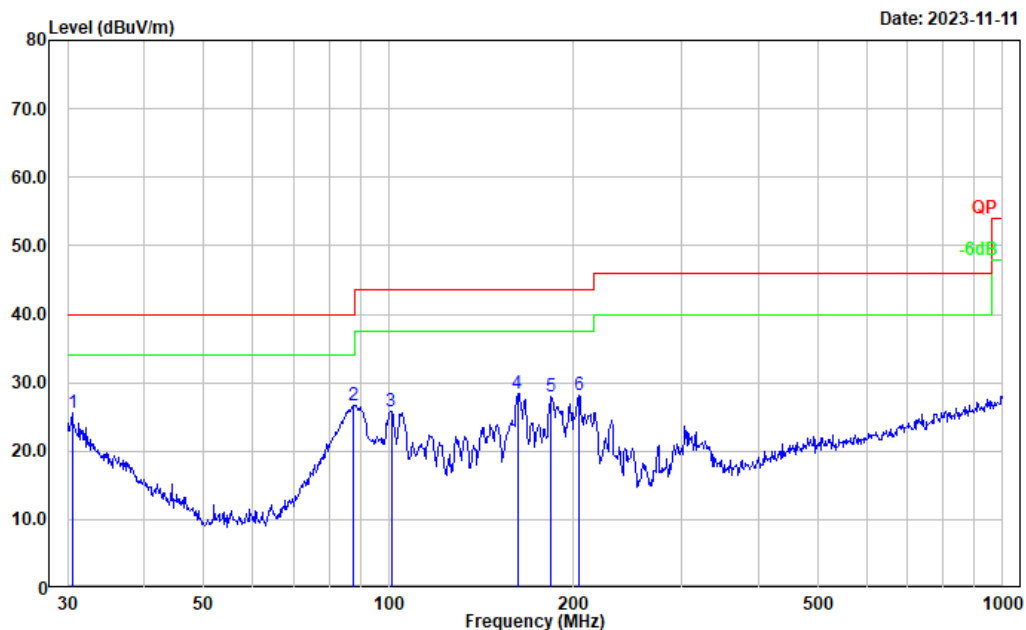


Date: 2023-12-23

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.399	28.99	-5.19	23.80	40.00	16.20	Peak
2	36.509	31.76	-9.08	22.68	40.00	17.32	Peak
3	72.592	42.41	-17.15	25.26	40.00	14.74	Peak
4	85.298	41.75	-17.51	24.24	40.00	15.76	Peak
5	122.834	31.83	-11.75	20.08	43.50	23.42	Peak
6	158.112	34.05	-12.36	21.69	43.50	21.81	Peak

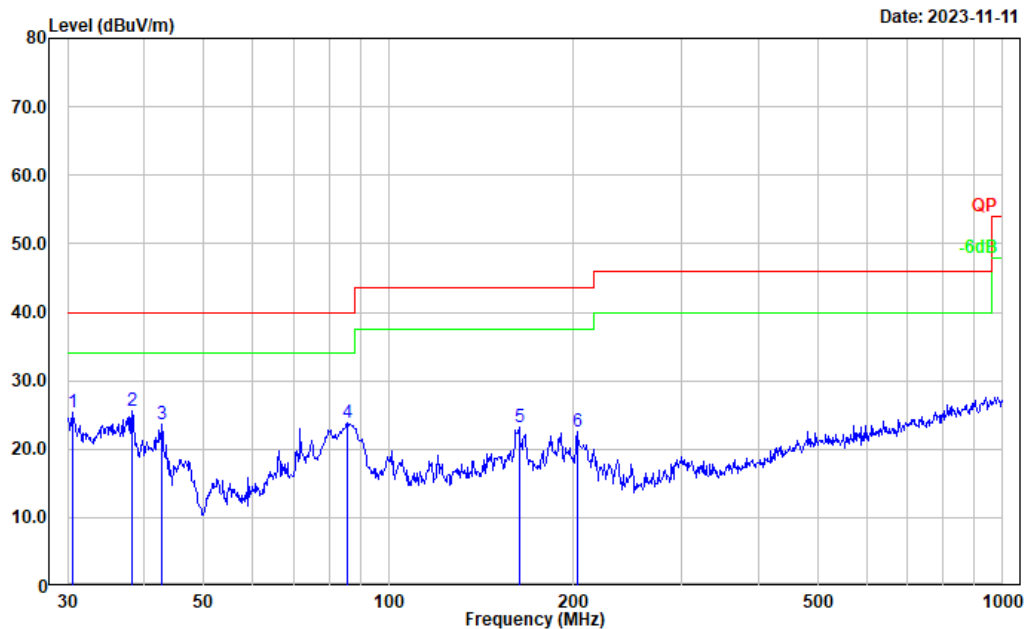
2CII-5 Adapter1:

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK Low Channel)



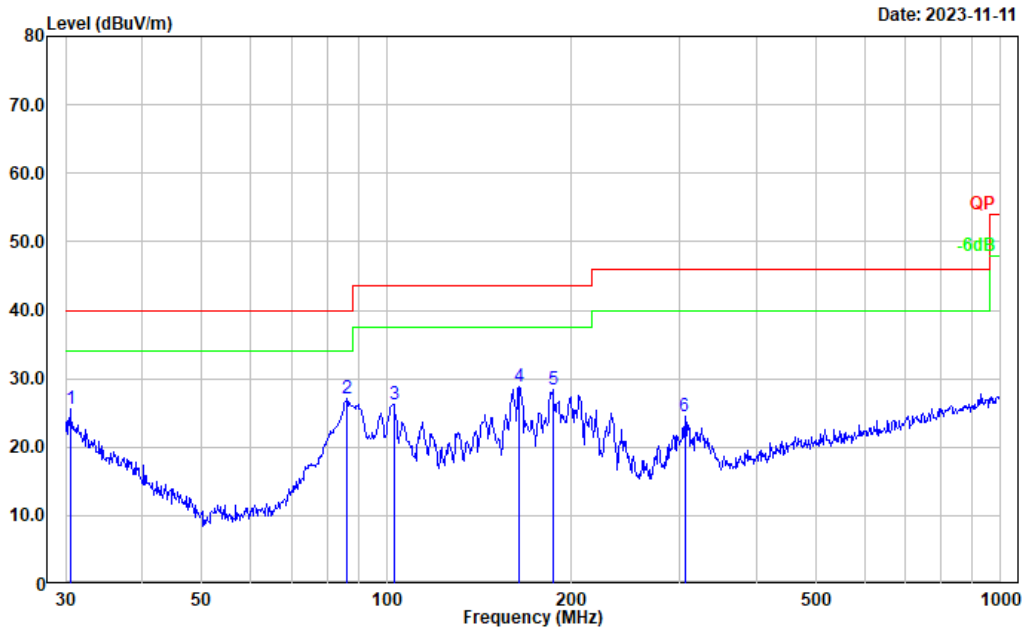
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	29.68	-4.20	25.48	40.00	14.52	Peak
2	87.418	43.80	-17.07	26.73	40.00	13.27	Peak
3	100.934	39.93	-14.10	25.83	43.50	17.67	Peak
4	162.041	40.52	-12.15	28.37	43.50	15.13	Peak
5	183.844	41.59	-13.52	28.07	43.50	15.43	Peak
6	204.238	40.62	-12.33	28.29	43.50	15.21	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK Low Channel)



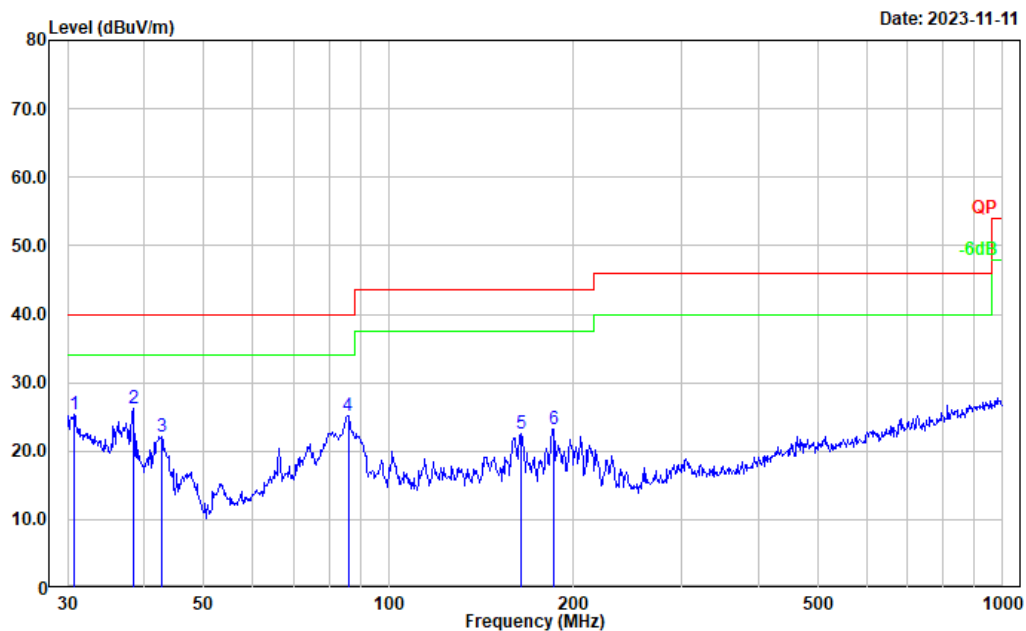
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	29.56	-4.20	25.36	40.00	14.64	Peak
2	38.212	35.62	-10.02	25.60	40.00	14.40	Peak
3	42.750	36.53	-12.96	23.57	40.00	16.43	Peak
4	85.598	40.94	-17.15	23.79	40.00	16.21	Peak
5	163.182	35.39	-12.25	23.14	43.50	20.36	Peak
6	202.810	34.75	-12.30	22.45	43.50	21.05	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK Middle Channel)



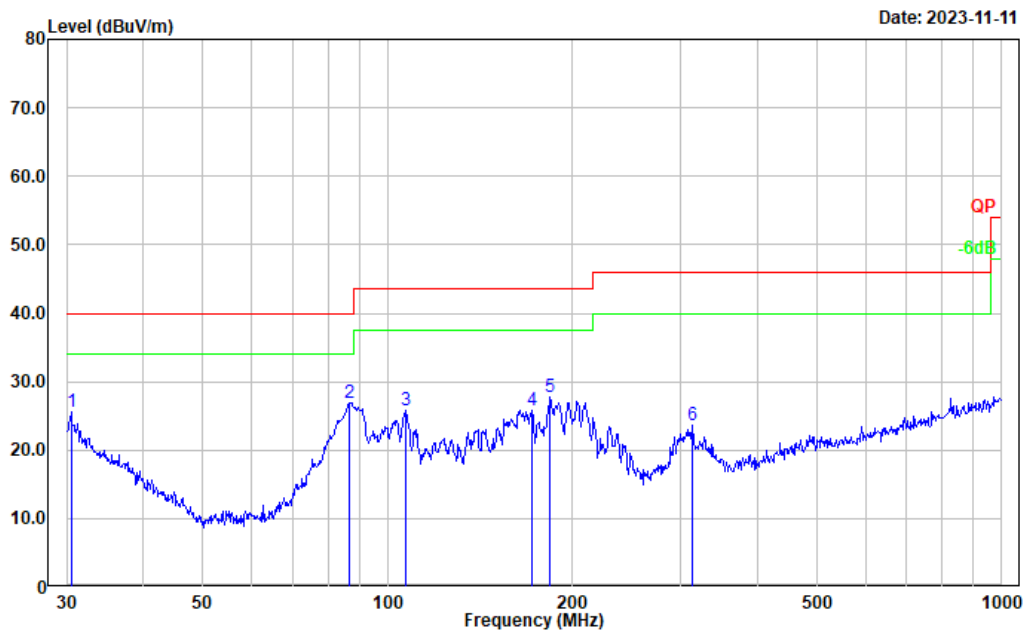
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	29.68	-4.20	25.48	40.00	14.52	Peak
2	86.200	44.21	-17.13	27.08	40.00	12.92	Peak
3	102.719	40.00	-13.79	26.21	43.50	17.29	Peak
4	164.330	41.22	-12.34	28.88	43.50	14.62	Peak
5	186.441	41.85	-13.53	28.32	43.50	15.18	Peak
6	305.680	35.02	-10.57	24.45	46.00	21.55	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK Middle Channel)



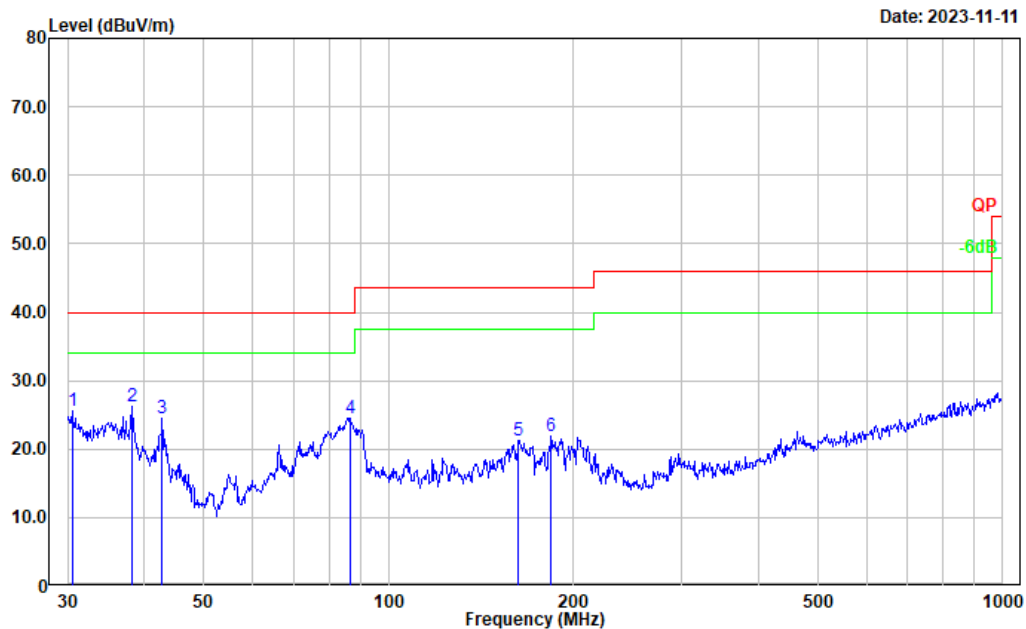
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	30.745	29.80	-4.36	25.44	40.00	14.56	Peak
2	38.481	36.49	-10.22	26.27	40.00	13.73	Peak
3	42.750	35.14	-12.96	22.18	40.00	17.82	Peak
4	85.898	42.37	-17.15	25.22	40.00	14.78	Peak
5	164.330	34.82	-12.34	22.48	43.50	21.02	Peak
6	185.788	36.80	-13.52	23.28	43.50	20.22	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK High Channel)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.531	29.71	-4.20	25.51	40.00	14.49	Peak
2	86.807	44.02	-17.10	26.92	40.00	13.08	Peak
3	106.759	38.67	-12.96	25.71	43.50	17.79	Peak
4	171.393	38.68	-12.92	25.76	43.50	17.74	Peak
5	183.844	41.20	-13.52	27.68	43.50	15.82	Peak
6	313.276	34.15	-10.60	23.55	46.00	22.45	Peak

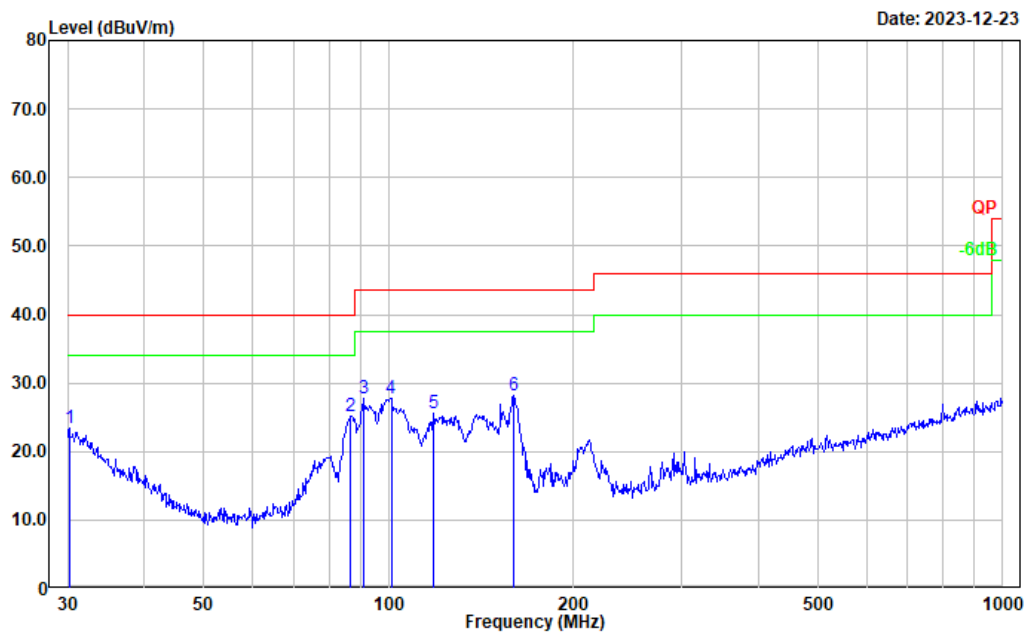
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK High Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	29.72	-4.20	25.52	40.00	14.48	Peak
2	38.212	36.16	-10.02	26.14	40.00	13.86	Peak
3	42.750	37.39	-12.96	24.43	40.00	15.57	Peak
4	86.503	41.72	-17.11	24.61	40.00	15.39	Peak
5	162.611	33.45	-12.21	21.24	43.50	22.26	Peak
6	183.844	35.38	-13.52	21.86	43.50	21.64	Peak

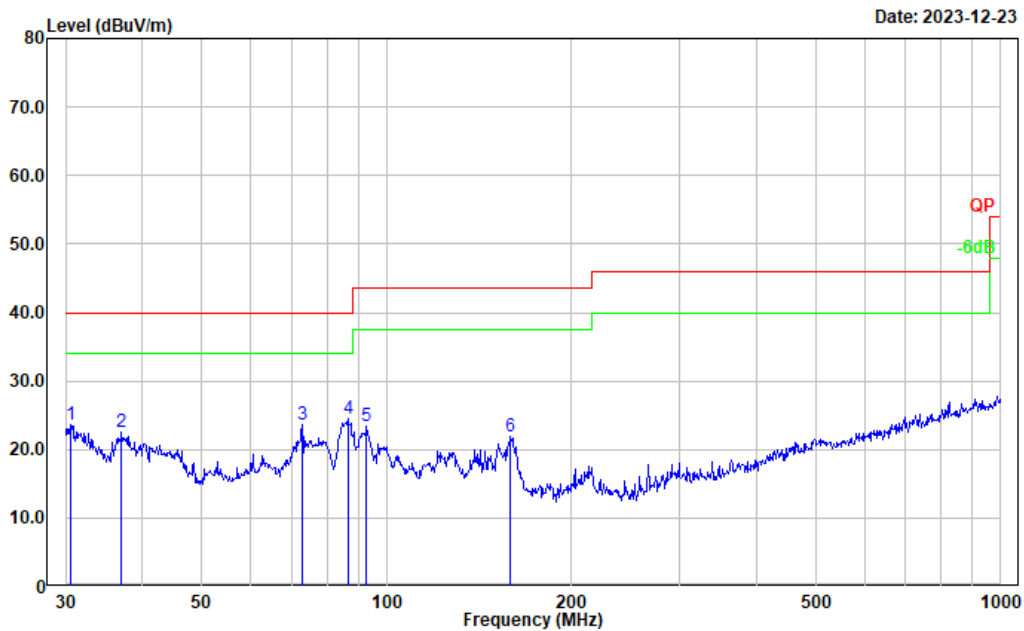
2CII-5 Adapter2:

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK Low Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.60	-4.28	23.32	40.00	16.68	Peak
2	86.807	42.60	-17.43	25.17	40.00	14.83	Peak
3	90.855	44.68	-17.02	27.66	43.50	15.84	Peak
4	100.934	42.07	-14.40	27.67	43.50	15.83	Peak
5	118.601	37.51	-11.94	25.57	43.50	17.93	Peak
6	159.784	40.50	-12.36	28.14	43.50	15.36	Peak

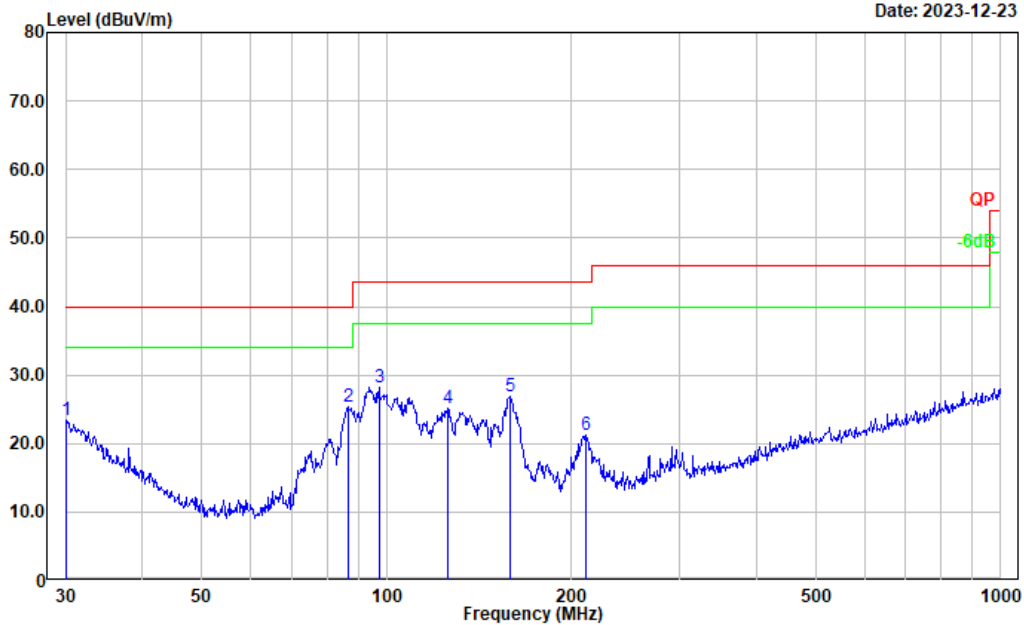
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK Low Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	28.25	-4.53	23.72	40.00	16.28	Peak
2	37.025	31.93	-9.47	22.46	40.00	17.54	Peak
3	72.847	40.76	-17.17	23.59	40.00	16.41	Peak
4	86.503	41.99	-17.44	24.55	40.00	15.45	Peak
5	92.787	40.02	-16.52	23.50	43.50	20.00	Peak
6	159.225	34.18	-12.36	21.82	43.50	21.68	Peak

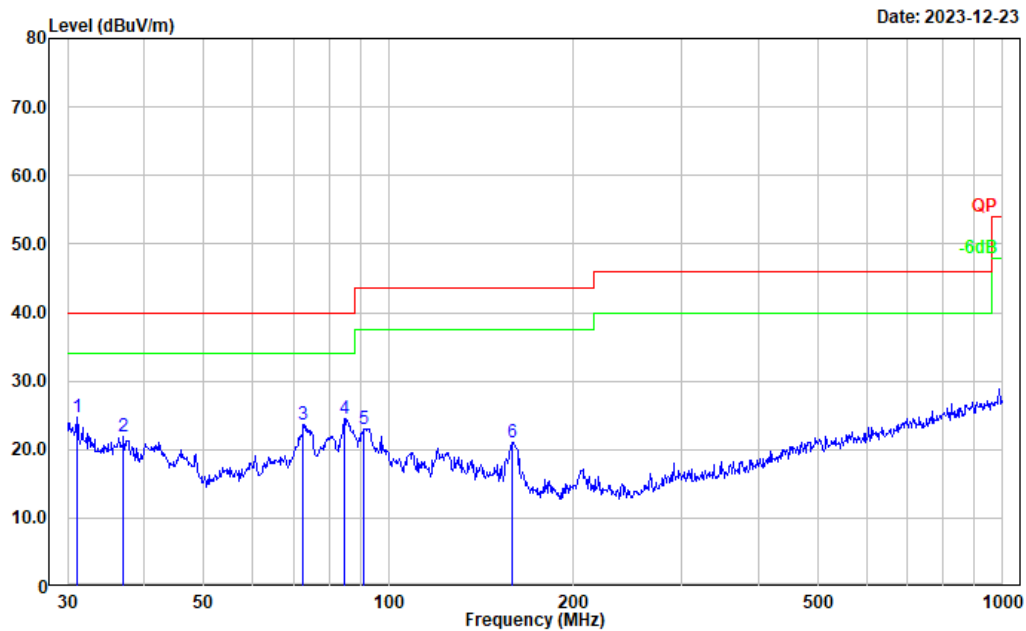
Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK Middle Channel)

Date: 2023-12-23



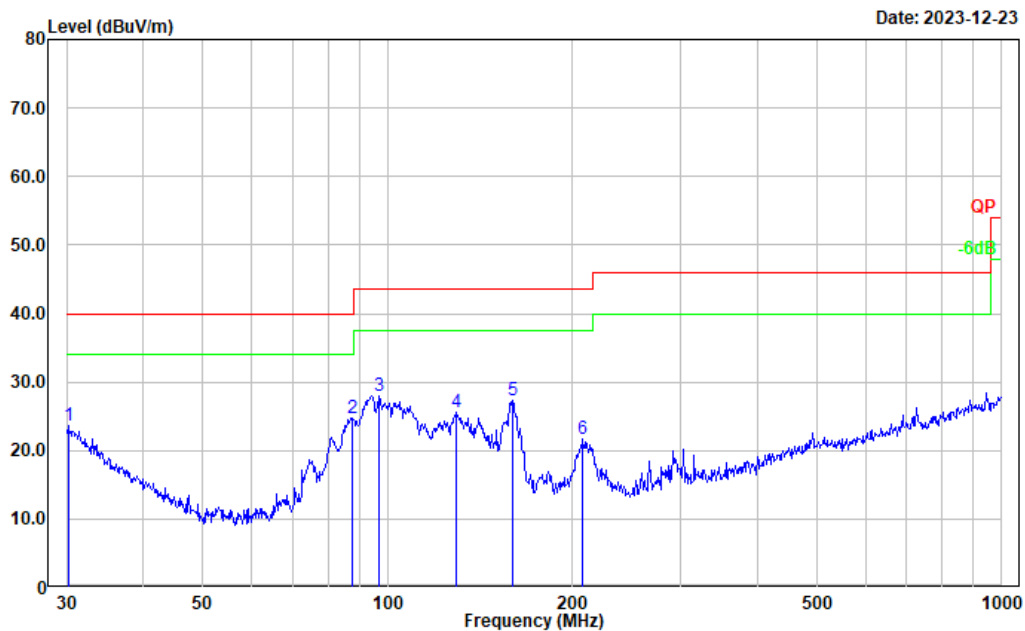
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.51	-4.12	23.39	40.00	16.61	Peak
2	86.807	42.71	-17.43	25.28	40.00	14.72	Peak
3	97.115	43.61	-15.37	28.24	43.50	15.26	Peak
4	125.446	36.90	-11.68	25.22	43.50	18.28	Peak
5	158.668	39.25	-12.35	26.90	43.50	16.60	Peak
6	211.527	34.14	-12.97	21.17	43.50	22.33	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK Middle Channel)



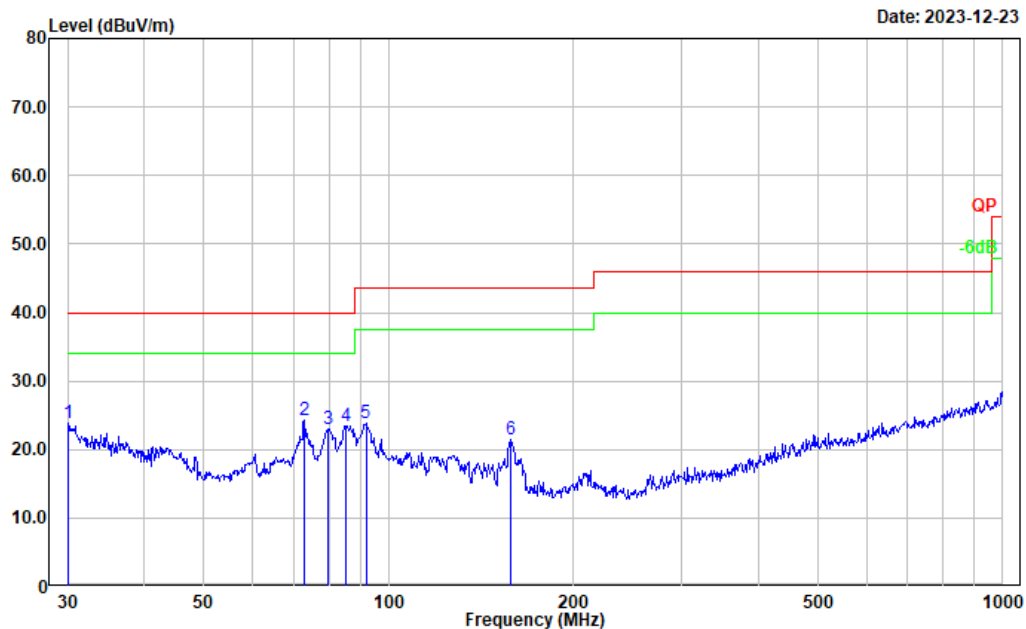
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.071	29.75	-4.94	24.81	40.00	15.19	Peak
2	37.025	31.36	-9.47	21.89	40.00	18.11	Peak
3	72.592	40.86	-17.15	23.71	40.00	16.29	Peak
4	84.702	42.10	-17.52	24.58	40.00	15.42	Peak
5	90.855	40.05	-17.02	23.03	43.50	20.47	Peak
6	158.668	33.37	-12.35	21.02	43.50	22.48	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note: Transmitting(BDR Mode GFSK High Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.99	-4.28	23.71	40.00	16.29	Peak
2	87.418	42.12	-17.40	24.72	40.00	15.28	Peak
3	96.775	43.50	-15.45	28.05	43.50	15.45	Peak
4	129.015	37.15	-11.63	25.52	43.50	17.98	Peak
5	159.784	39.64	-12.36	27.28	43.50	16.22	Peak
6	207.850	34.49	-12.90	21.59	43.50	21.91	Peak

Project No.: CR231061506-RF
 Tester: Carl Xue
 Polarization: vertical
 Note: Transmitting(BDR Mode GFSK High Channel)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	28.12	-4.20	23.92	40.00	16.08	Peak
2	72.847	41.37	-17.17	24.20	40.00	15.80	Peak
3	79.521	40.71	-17.77	22.94	40.00	17.06	Peak
4	85.298	41.00	-17.51	23.49	40.00	16.51	Peak
5	91.816	40.55	-16.79	23.76	43.50	19.74	Peak
6	158.112	33.85	-12.36	21.49	43.50	22.01	Peak

2) 1-25GHz:**Antenna 0:****BDR Mode(GFSK):**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				2402	MHz		
2390.000	27.22	PK	H	31.71	58.93	74.00	15.07
2390.000	15.82	AV	H	31.71	47.53	54.00	6.47
2390.000	27.44	PK	V	31.71	59.15	74.00	14.85
2390.000	16.26	AV	V	31.71	47.97	54.00	6.03
4804.000	37.83	PK	H	11.19	49.02	74.00	24.98
4804.000	25.40	AV	H	11.19	36.59	54.00	17.41
4804.000	34.45	PK	V	11.19	45.64	74.00	28.36
4804.000	22.73	AV	V	11.19	33.92	54.00	20.08
7206.000	36.91	PK	H	15.03	51.94	74.00	22.06
7206.000	22.49	AV	H	15.03	37.52	54.00	16.48
7206.000	35.64	PK	V	15.03	50.67	74.00	23.33
7206.000	22.80	AV	V	15.03	37.83	54.00	16.17
Middle Channel:				2441	MHz		
4882.000	37.14	PK	H	11.48	48.62	74.00	25.38
4882.000	22.77	AV	H	11.48	34.25	54.00	19.75
4882.000	35.45	PK	V	11.48	46.93	74.00	27.07
4882.000	22.22	AV	V	11.48	33.70	54.00	20.30
7323.000	36.54	PK	H	15.57	52.11	74.00	21.89
7323.000	22.38	AV	H	15.57	37.95	54.00	16.05
7323.000	36.28	PK	V	15.57	51.85	74.00	22.15
7323.000	22.57	AV	V	15.57	38.14	54.00	15.86
High Channel:				2480	MHz		
2483.500	26.70	PK	H	32.19	58.89	74.00	15.11
2483.500	15.90	AV	H	32.19	48.09	54.00	5.91
2483.500	26.95	PK	V	32.19	59.14	74.00	14.86
2483.500	15.27	AV	V	32.19	47.46	54.00	6.54
4960.000	35.59	PK	H	11.77	47.36	74.00	26.64
4960.000	25.14	AV	H	11.77	36.91	54.00	17.09
4960.000	39.54	PK	V	11.77	51.31	74.00	22.69
4960.000	26.66	AV	V	11.77	38.43	54.00	15.57
7440.000	37.82	PK	H	15.98	53.80	74.00	20.20
7440.000	23.90	AV	H	15.98	39.88	54.00	14.12
7440.000	37.10	PK	V	15.98	53.08	74.00	20.92
7440.000	22.55	AV	V	15.98	38.53	54.00	15.47

2EDR Mode ($\pi/4$ -DQPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				2402	MHz		
2390.000	27.43	PK	H	31.71	59.14	74.00	14.86
2390.000	15.16	AV	H	31.71	46.87	54.00	7.13
2390.000	27.76	PK	V	31.71	59.47	74.00	14.53
2390.000	15.35	AV	V	31.71	47.06	54.00	6.94
4804.000	35.80	PK	H	11.19	46.99	74.00	27.01
4804.000	20.86	AV	H	11.19	32.05	54.00	21.95
4804.000	36.03	PK	V	11.19	47.22	74.00	26.78
4804.000	22.99	AV	V	11.19	34.18	54.00	19.82
7206.000	36.82	PK	H	15.03	51.85	74.00	22.15
7206.000	23.68	AV	H	15.03	38.71	54.00	15.29
7206.000	36.28	PK	V	15.03	51.31	74.00	22.69
7206.000	22.06	AV	V	15.03	37.09	54.00	16.91
Middle Channel:				2441	MHz		
4882.000	34.12	PK	H	11.48	45.60	74.00	28.40
4882.000	22.06	AV	H	11.48	33.54	54.00	20.46
4882.000	37.23	PK	V	11.48	48.71	74.00	25.29
4882.000	22.66	AV	V	11.48	34.14	54.00	19.86
7323.000	36.52	PK	H	15.57	52.09	74.00	21.91
7323.000	22.07	AV	H	15.57	37.64	54.00	16.36
7323.000	36.75	PK	V	15.57	52.32	74.00	21.68
7323.000	22.90	AV	V	15.57	38.47	54.00	15.53
High Channel:				2480	MHz		
2483.500	26.79	PK	H	32.19	58.98	74.00	15.02
2483.500	15.55	AV	H	32.19	47.74	54.00	6.26
2483.500	27.44	PK	V	32.19	59.63	74.00	14.37
2483.500	14.48	AV	V	32.19	46.67	54.00	7.33
4960.000	35.54	PK	H	11.77	47.31	74.00	26.69
4960.000	23.36	AV	H	11.77	35.13	54.00	18.87
4960.000	36.17	PK	V	11.77	47.94	74.00	26.06
4960.000	22.66	AV	V	11.77	34.43	54.00	19.57
7440.000	35.32	PK	H	15.98	51.30	74.00	22.70
7440.000	22.02	AV	H	15.98	38.00	54.00	16.00
7440.000	37.35	PK	V	15.98	53.33	74.00	20.67
7440.000	22.81	AV	V	15.98	38.79	54.00	15.21

3EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				2402	MHz		
2390.000	29.02	PK	H	31.71	60.73	74.00	13.27
2390.000	16.33	AV	H	31.71	48.04	54.00	5.96
2390.000	28.17	PK	V	31.71	59.88	74.00	14.12
2390.000	16.21	AV	V	31.71	47.92	54.00	6.08
4804.000	35.92	PK	H	11.19	47.11	74.00	26.89
4804.000	24.29	AV	H	11.19	35.48	54.00	18.52
4804.000	34.44	PK	V	11.19	45.63	74.00	28.37
4804.000	22.88	AV	V	11.19	34.07	54.00	19.93
7206.000	35.20	PK	H	15.03	50.23	74.00	23.77
7206.000	22.56	AV	H	15.03	37.59	54.00	16.41
7206.000	37.60	PK	V	15.03	52.63	74.00	21.37
7206.000	23.00	AV	V	15.03	38.03	54.00	15.97
Middle Channel:				2441	MHz		
4882.000	34.81	PK	H	11.48	46.29	74.00	27.71
4882.000	23.58	AV	H	11.48	35.06	54.00	18.94
4882.000	34.73	PK	V	11.48	46.21	74.00	27.79
4882.000	22.04	AV	V	11.48	33.52	54.00	20.48
7323.000	34.92	PK	H	15.57	50.49	74.00	23.51
7323.000	22.46	AV	H	15.57	38.03	54.00	15.97
7323.000	37.87	PK	V	15.57	53.44	74.00	20.56
7323.000	22.85	AV	V	15.57	38.42	54.00	15.58
High Channel:				2480	MHz		
2483.500	26.98	PK	H	32.19	59.17	74.00	14.83
2483.500	15.09	AV	H	32.19	47.28	54.00	6.72
2483.500	27.30	PK	V	32.19	59.49	74.00	14.51
2483.500	15.00	AV	V	32.19	47.19	54.00	6.81
4960.000	34.58	PK	H	11.77	46.35	74.00	27.65
4960.000	23.58	AV	H	11.77	35.35	54.00	18.65
4960.000	36.80	PK	V	11.77	48.57	74.00	25.43
4960.000	22.79	AV	V	11.77	34.56	54.00	19.44
7440.000	36.03	PK	H	15.98	52.01	74.00	21.99
7440.000	22.70	AV	H	15.98	38.68	54.00	15.32
7440.000	36.43	PK	V	15.98	52.41	74.00	21.59
7440.000	22.50	AV	V	15.98	38.48	54.00	15.52

Antenna 1:**BDR Mode(GFSK):**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				2402	MHz		
2390.000	29.12	PK	H	31.71	60.83	74.00	13.17
2390.000	15.92	AV	H	31.71	47.63	54.00	6.37
2390.000	27.76	PK	V	31.71	59.47	74.00	14.53
2390.000	15.26	AV	V	31.71	46.97	54.00	7.03
4804.000	36.43	PK	H	11.19	47.62	74.00	26.38
4804.000	32.26	AV	H	11.19	43.45	54.00	10.55
4804.000	35.37	PK	V	11.19	46.56	74.00	27.44
4804.000	27.60	AV	V	11.19	38.79	54.00	15.21
7206.000	35.93	PK	H	15.03	50.96	74.00	23.04
7206.000	22.52	AV	H	15.03	37.55	54.00	16.45
7206.000	35.25	PK	V	15.03	50.28	74.00	23.72
7206.000	22.16	AV	V	15.03	37.19	54.00	16.81
Middle Channel:				2441	MHz		
4882.000	37.19	PK	H	11.48	48.67	74.00	25.33
4882.000	32.65	AV	H	11.48	44.13	54.00	9.87
4882.000	35.98	PK	V	11.48	47.46	74.00	26.54
4882.000	22.88	AV	V	11.48	34.36	54.00	19.64
7323.000	36.75	PK	H	15.57	52.32	74.00	21.68
7323.000	23.21	AV	H	15.57	38.78	54.00	15.22
7323.000	37.54	PK	V	15.57	53.11	74.00	20.89
7323.000	22.60	AV	V	15.57	38.17	54.00	15.83
High Channel:				2480	MHz		
2483.500	27.75	PK	H	32.19	59.94	74.00	14.06
2483.500	15.84	AV	H	32.19	48.03	54.00	5.97
2483.500	27.05	PK	V	32.19	59.24	74.00	14.76
2483.500	15.38	AV	V	32.19	47.57	54.00	6.43
4960.000	36.73	PK	H	11.77	48.50	74.00	25.50
4960.000	32.30	AV	H	11.77	44.07	54.00	9.93
4960.000	35.78	PK	V	11.77	47.55	74.00	26.45
4960.000	28.03	AV	V	11.77	39.80	54.00	14.20
7440.000	35.96	PK	H	15.98	51.94	74.00	22.06
7440.000	22.67	AV	H	15.98	38.65	54.00	15.35
7440.000	35.90	PK	V	15.98	51.88	74.00	22.12
7440.000	22.16	AV	V	15.98	38.14	54.00	15.86

2EDR Mode ($\pi/4$ -DQPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				2402	MHz		
2390.000	28.87	PK	H	31.71	60.58	74.00	13.42
2390.000	15.75	AV	H	31.71	47.46	54.00	6.54
2390.000	28.07	PK	V	31.71	59.78	74.00	14.22
2390.000	16.40	AV	V	31.71	48.11	54.00	5.89
4804.000	35.69	PK	H	11.19	46.88	74.00	27.12
4804.000	30.38	AV	H	11.19	41.57	54.00	12.43
4804.000	34.83	PK	V	11.19	46.02	74.00	27.98
4804.000	25.21	AV	V	11.19	36.40	54.00	17.60
7206.000	35.58	PK	H	15.03	50.61	74.00	23.39
7206.000	22.38	AV	H	15.03	37.41	54.00	16.59
7206.000	34.78	PK	V	15.03	49.81	74.00	24.19
7206.000	22.53	AV	V	15.03	37.56	54.00	16.44
Middle Channel:				2441	MHz		
4882.000	35.19	PK	H	11.48	46.67	74.00	27.33
4882.000	22.71	AV	H	11.48	34.19	54.00	19.81
4882.000	34.26	PK	V	11.48	45.74	74.00	28.26
4882.000	24.64	AV	V	11.48	36.12	54.00	17.88
7323.000	35.22	PK	H	15.57	50.79	74.00	23.21
7323.000	22.71	AV	H	15.57	38.28	54.00	15.72
7323.000	36.60	PK	V	15.57	52.17	74.00	21.83
7323.000	22.26	AV	V	15.57	37.83	54.00	16.17
High Channel:				2480	MHz		
2483.500	28.79	PK	H	32.19	60.98	74.00	13.02
2483.500	15.93	AV	H	32.19	48.12	54.00	5.88
2483.500	28.22	PK	V	32.19	60.41	74.00	13.59
2483.500	16.36	AV	V	32.19	48.55	54.00	5.45
4960.000	34.05	PK	H	11.77	45.82	74.00	28.18
4960.000	22.29	AV	H	11.77	34.06	54.00	19.94
4960.000	34.79	PK	V	11.77	46.56	74.00	27.44
4960.000	25.97	AV	V	11.77	37.74	54.00	16.26
7440.000	36.08	PK	H	15.98	52.06	74.00	21.94
7440.000	22.12	AV	H	15.98	38.10	54.00	15.90
7440.000	36.66	PK	V	15.98	52.64	74.00	21.36
7440.000	23.68	AV	V	15.98	39.66	54.00	14.34