



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Iradio Electronics Co., Ltd.

Address: No.16 Daxiamei Industrial Area, Nan'an, Quanzhou City, China

FCC ID: Y23UV-5118PLUS

Product Name: Two-way Radio

**Standard(s): 47 CFR Part 15 Subpart B
ANSI C63.4-2014**

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: CR230849681-00B

Date Of Issue: 2023/9/18

Reviewed By: Calvin Chen

Title: RF Engineer

Approved By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

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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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230849681-00B	Original Report	2023/9/18

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Type:	Two-way Radio
Trade Name:	IRADIO
EUT Model:	UV-5118PLUS
Multiple Models:	RADTEL RT-890
Highest Operation Frequency:	480MHz
Rated Input Voltage:	DC 7.4V from battery or DC 5V from adapter for charging or AC 100-240V 50~60Hz from charger base charging
Serial Number:	2B6T-1
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.

Accessory Information:

Accessory Description	Manufacturer	Model
Charger Base	/	/

Operation Frequency and Test Channel:

Operation Modes	Operation Frequency Range (MHz)	Test Frequency (MHz)
NOAA Receiving	161.65-162.550	162.4250
FM Receiving	66-108	66.1, 87.1, 107.9

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer. Test Mode: M1: Charging For adapter (The EUT Switch OFF) M2: Charging For Charger base (The EUT Switch OFF) M3: Receiver at FM 66.1 MHz M4: Receiver at FM 87.1 MHz M5: Receiver at FM 107.9 MHz M6: NOAA Receiving at 162.4250MHz
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Fangxin	Adapter	FX2U-050200U	AD220930001
Unknown	ANT	Unknown	Unknown
Agilent	Signal Generator	N5182B	MY51350144

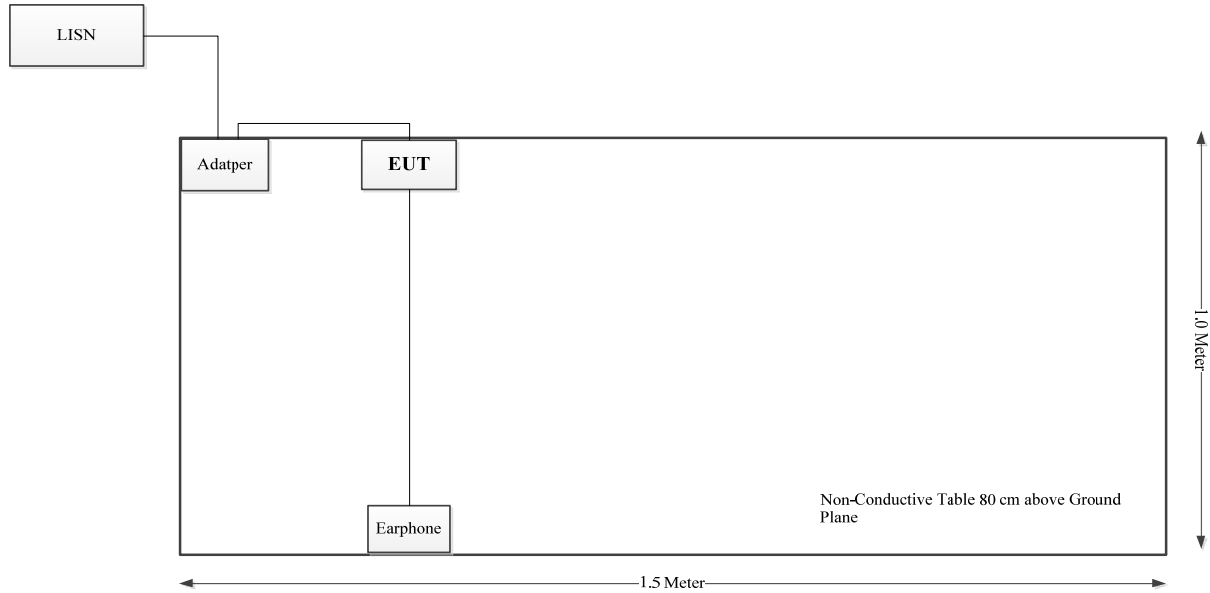
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	0.8	EUT	Adapter
Power Cable	No	No	0.8	Charger Base	LISN
Earphone Cable	No	No	0.8	EUT	Earphone
Coaxial Cable	No	No	10	Signal Generator	ANT

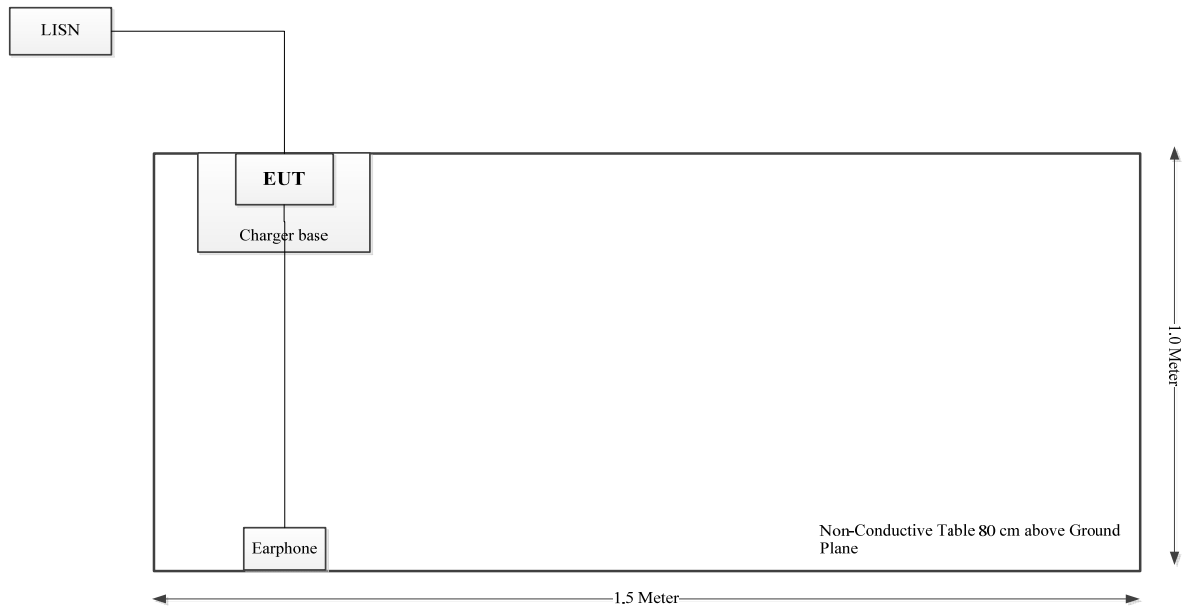
1.2.4 Block Diagram of Test Setup

AC line conducted emissions

M1:

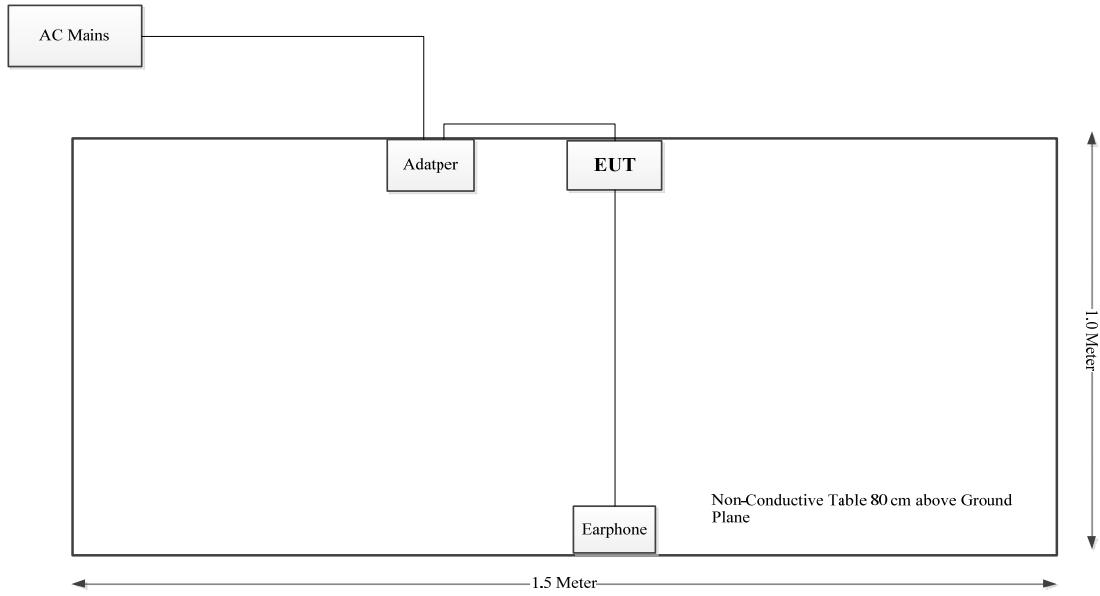


M2:

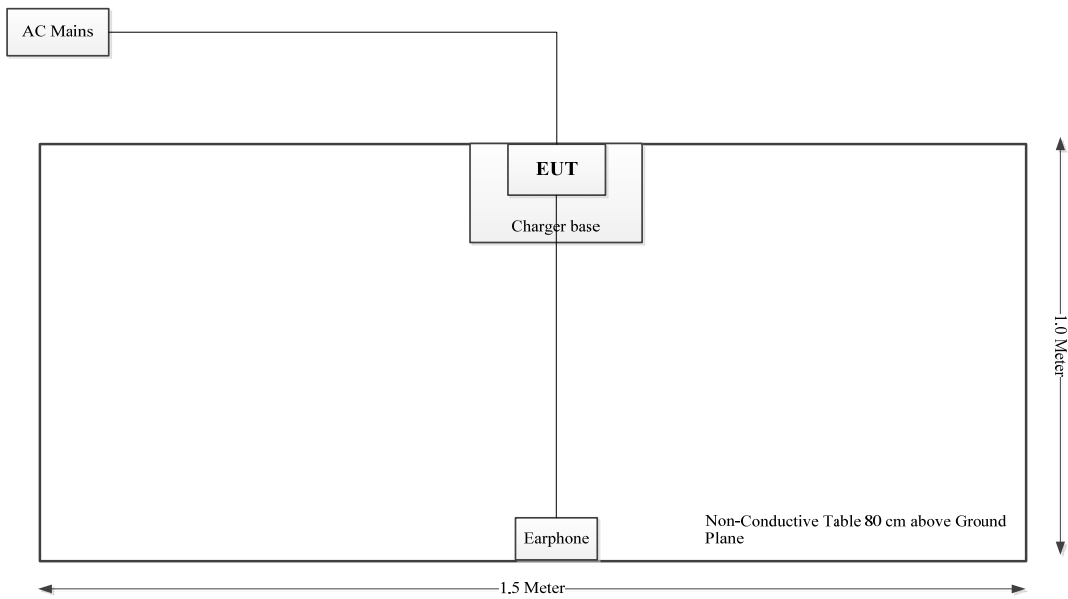


Radiated emissions

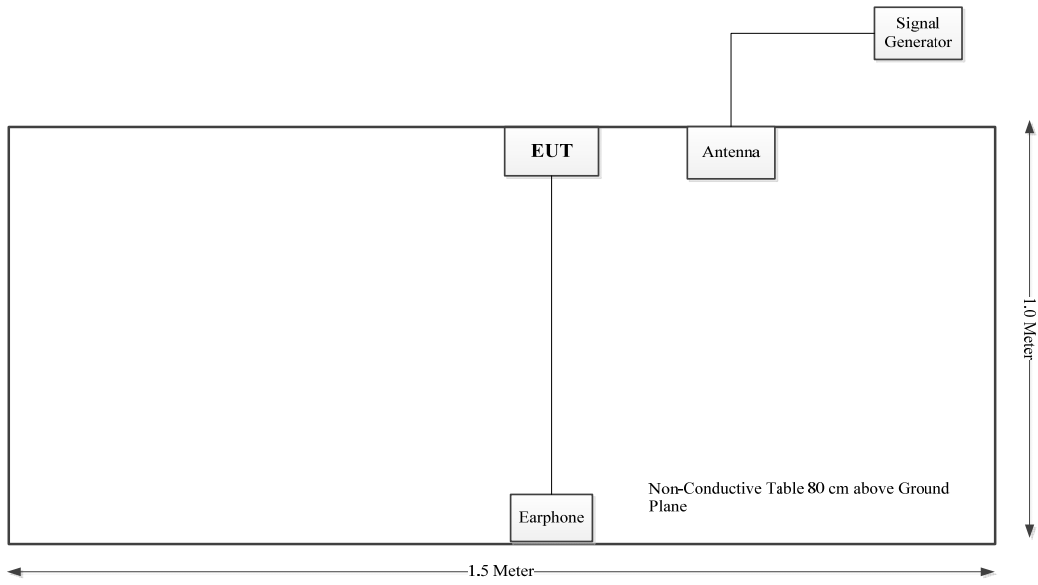
M1:



M2:



M3-M6:



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
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
Temperature	±1°C
Humidity	±5%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)
Unwanted Emissions, conducted	±1.26 dB

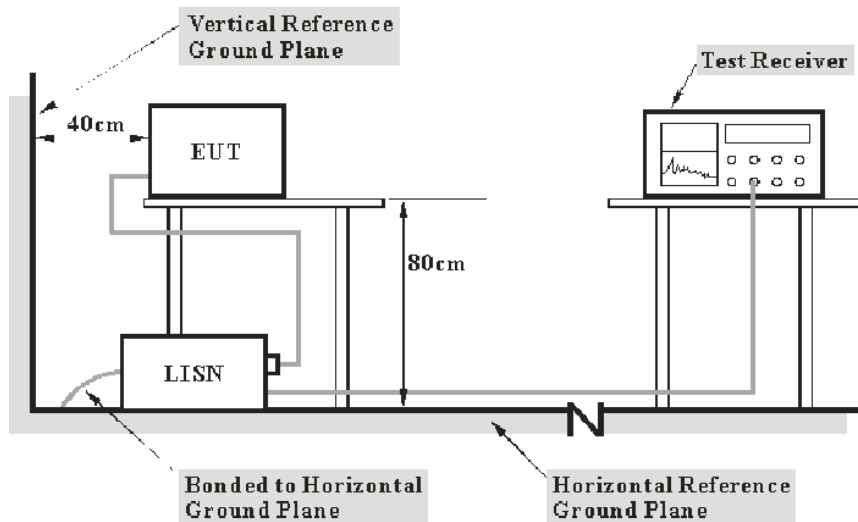
2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
§15.107	Conducted emissions	Compliant
§15.109	Radiated emissions	Compliant
§15.111	Antenna power conduction limits for receivers	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 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 C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B 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 adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.2 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

3.1.3 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT, the report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

All data was recorded in the Quasi-peak and average detection mode.

The report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

3.1.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

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

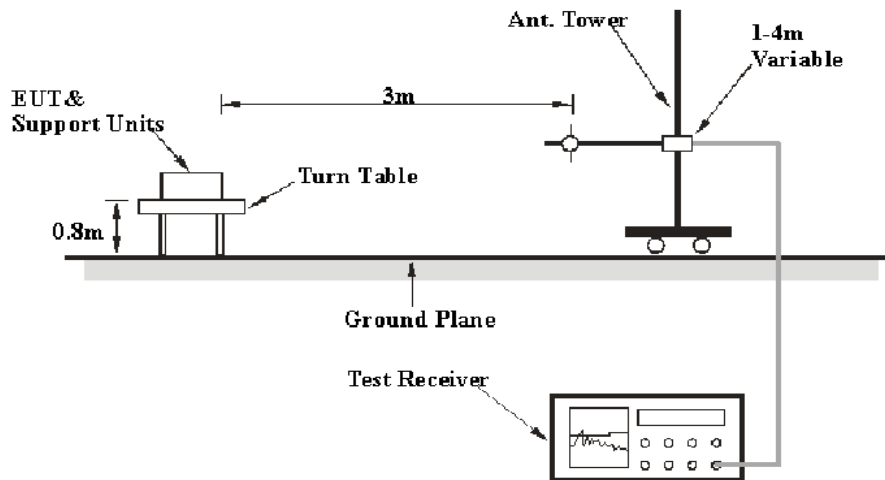
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

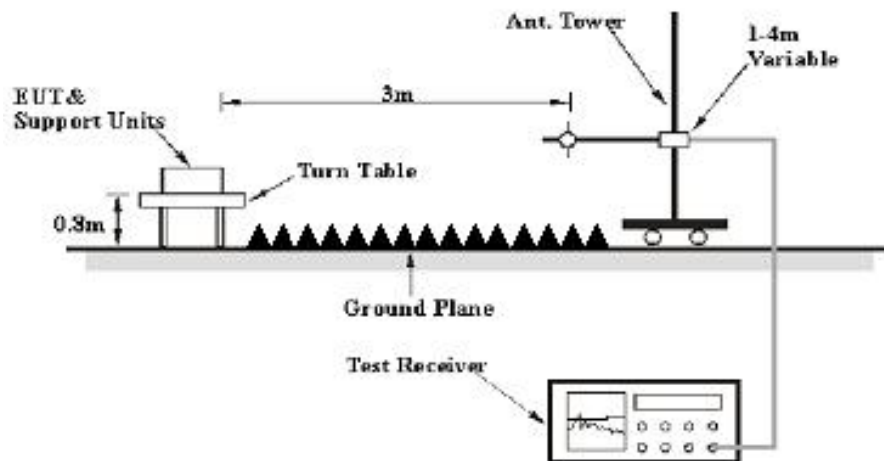
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was with the FCC Part 15 B Class B limits.

3.2.2 EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	Reduced video bandwidth	/	AVG

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

3.2.3 Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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

The data was recorded in the Quasi-peak detection mode for below 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.4 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 Antenna Power Conduction Limits for Receivers

3.3.1 Applicable Standard

FCC§15.111.

(a) In addition to the radiated emission limits, receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of § 15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna, provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in § 15.33 shall not exceed 2.0 nanowatts.

3.3.2 EUT Setup



3.3.3 Test Procedure

EUT antenna port connected to a spectrum analyzer, the traces were recorded as shown on the data pages.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2B6T-1	Test Date:	2023/9/9
Test Site:	CE	Test Mode:	M1-M2
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.4	Relative Humidity: (%)	65	ATM Pressure: (kPa)	100.1

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

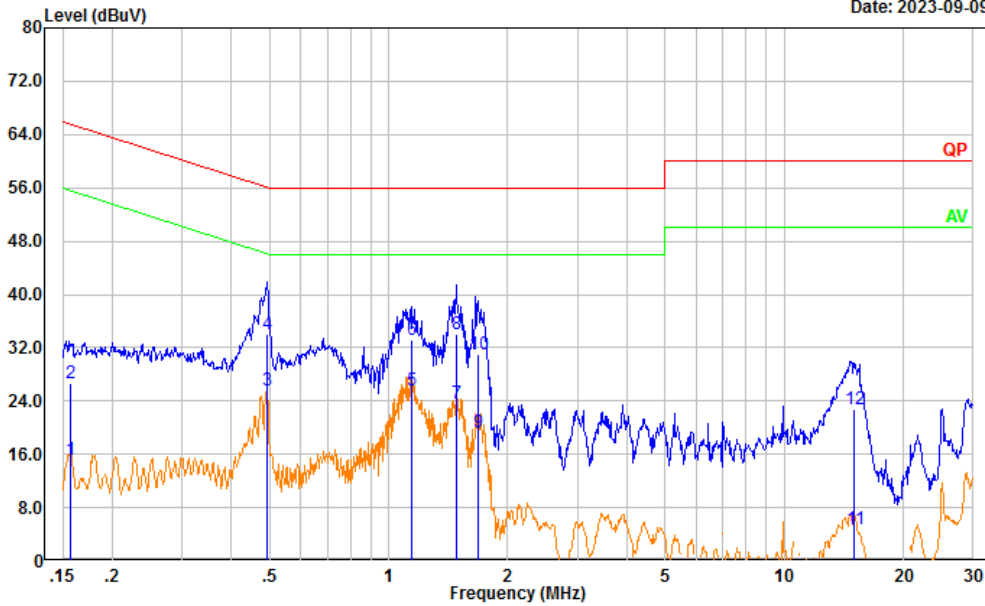
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

M1:

Project No.: CR230849681-RF
 Tester: David Huang
 Port: Line
 Note:

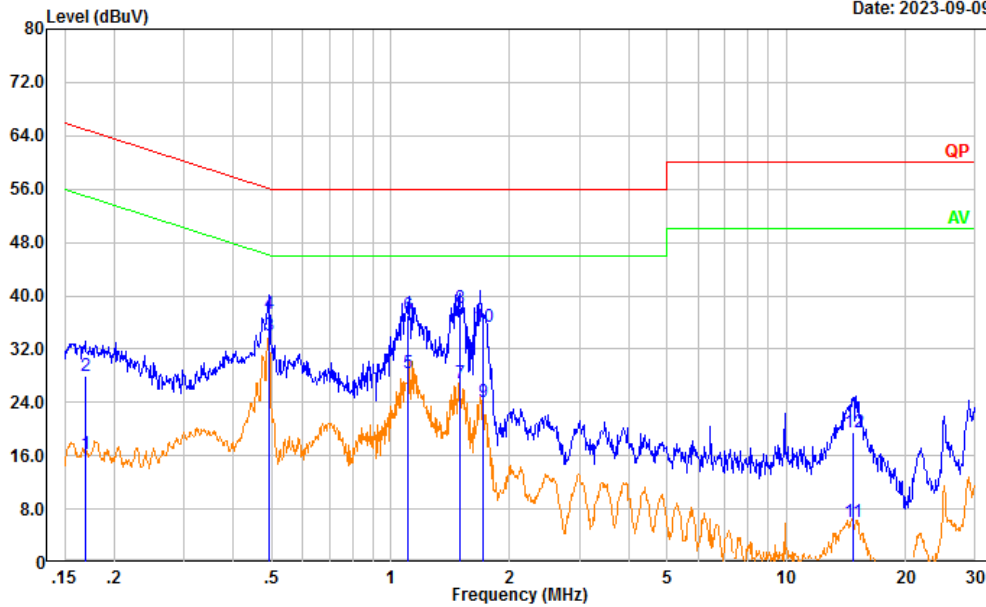
Date: 2023-09-09



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.157	5.66	9.61	15.27	55.63	40.36	Average
2	0.157	17.07	9.61	26.68	65.63	38.95	QP
3	0.492	16.03	9.61	25.64	46.14	20.50	Average
4	0.492	24.34	9.61	33.95	56.14	22.19	QP
5	1.140	16.01	9.62	25.63	46.00	20.37	Average
6	1.140	23.49	9.62	33.11	56.00	22.89	QP
7	1.481	13.97	9.62	23.59	46.00	22.41	Average
8	1.481	24.51	9.62	34.13	56.00	21.87	QP
9	1.680	9.61	9.63	19.24	46.00	26.76	Average
10	1.680	21.42	9.63	31.05	56.00	24.95	QP
11	15.032	-4.88	9.69	4.81	50.00	45.19	Average
12	15.032	12.97	9.69	22.66	60.00	37.34	QP

Project No.: CR230849681-RF
 Tester: David Huang
 Port: neutral
 Note:

Date: 2023-09-09

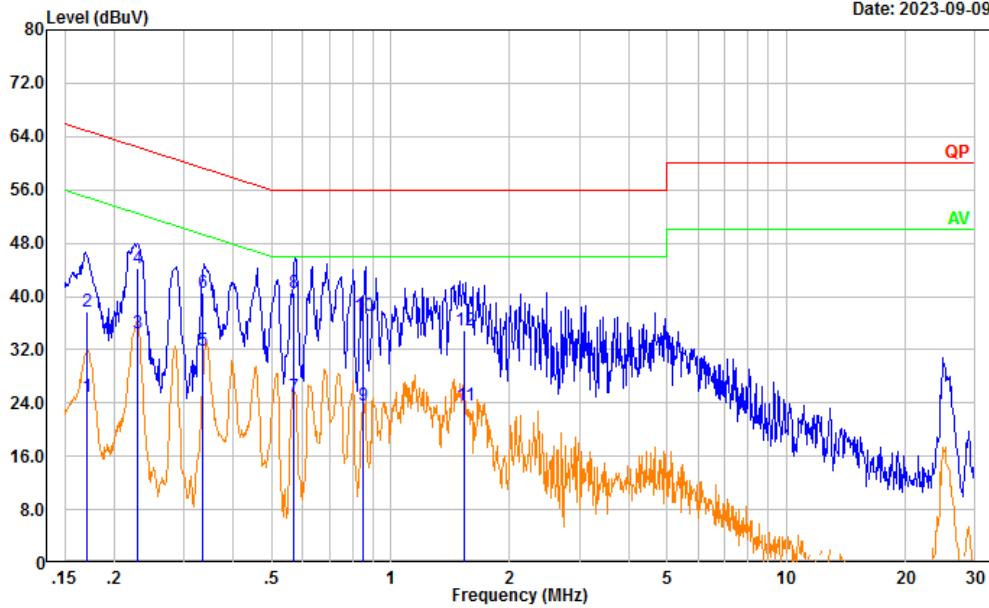


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.169	6.69	9.61	16.30	55.00	38.70	Average
2	0.169	18.36	9.61	27.97	65.00	37.03	QP
3	0.491	24.51	9.61	34.12	46.15	12.03	Average
4	0.491	27.77	9.61	37.38	56.15	18.77	QP
5	1.107	18.76	9.62	28.38	46.00	17.62	Average
6	1.107	27.49	9.62	37.11	56.00	18.89	QP
7	1.493	17.32	9.62	26.94	46.00	19.06	Average
8	1.493	28.60	9.62	38.22	56.00	17.78	QP
9	1.710	14.51	9.63	24.14	46.00	21.86	Average
10	1.710	25.68	9.63	35.31	56.00	20.69	QP
11	14.708	-3.55	9.69	6.14	50.00	43.86	Average
12	14.708	9.79	9.69	19.48	60.00	40.52	QP

M2:

Project No.: CR230849681-RF
 Tester: David Huang
 Port: Line
 Note:

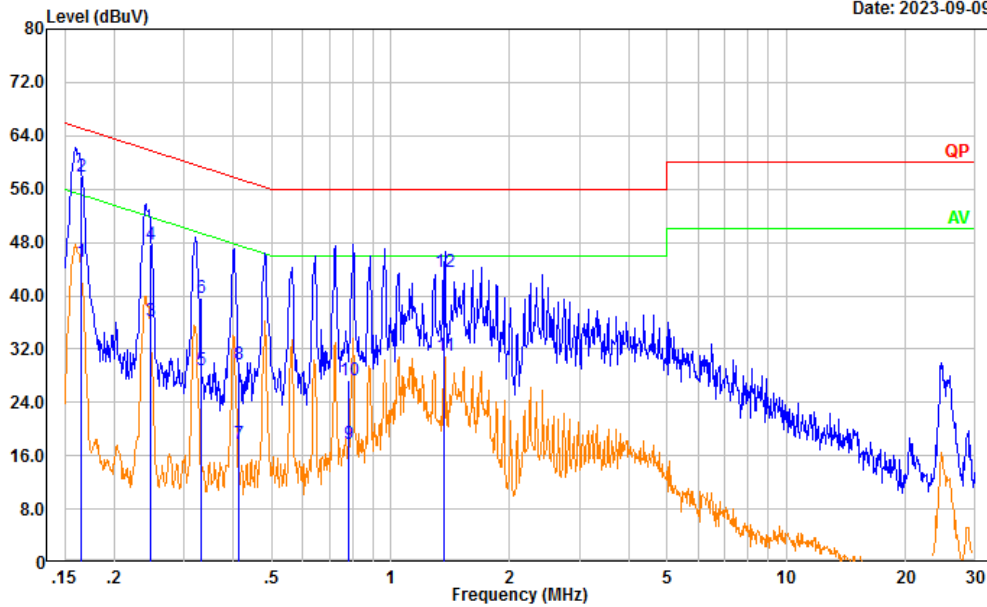
Date: 2023-09-09



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.171	15.27	9.61	24.88	54.91	30.03	Average
2	0.171	28.22	9.61	37.83	64.91	27.08	QP
3	0.230	24.97	9.61	34.58	52.45	17.87	Average
4	0.230	34.54	9.61	44.15	62.45	18.30	QP
5	0.334	22.22	9.61	31.83	49.36	17.53	Average
6	0.334	30.94	9.61	40.55	59.36	18.81	QP
7	0.571	15.41	9.62	25.03	46.00	20.97	Average
8	0.571	30.90	9.62	40.52	56.00	15.48	QP
9	0.854	13.95	9.62	23.57	46.00	22.43	Average
10	0.854	27.35	9.62	36.97	56.00	19.03	QP
11	1.538	13.96	9.63	23.59	46.00	22.41	Average
12	1.538	25.24	9.63	34.87	56.00	21.13	QP

Project No.: CR230849681-RF
 Tester: David Huang
 Port: neutral
 Note:

Date: 2023-09-09



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.165	35.44	9.61	45.05	55.23	10.18	Average
2	0.165	48.19	9.61	57.80	65.23	7.43	QP
3	0.248	26.65	9.61	36.26	51.83	15.57	Average
4	0.248	38.12	9.61	47.73	61.83	14.10	QP
5	0.331	19.24	9.61	28.85	49.42	20.57	Average
6	0.331	30.12	9.61	39.73	59.42	19.69	QP
7	0.414	8.21	9.61	17.82	47.56	29.74	Average
8	0.414	19.99	9.61	29.60	57.56	27.96	QP
9	0.785	8.06	9.62	17.68	46.00	28.32	Average
10	0.785	17.63	9.62	27.25	56.00	28.75	QP
11	1.367	21.40	9.62	31.02	46.00	14.98	Average
12	1.367	34.02	9.62	43.64	56.00	12.36	QP

4.2 Radiation Spurious Emissions

Serial Number:	2B6T-1	Test Date:	2023/9/8
Test Site:	966-2,966-1	Test Mode:	M1-M6
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.1~25.4	Relative Humidity: (%)	58~67	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
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
Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
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

* 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:

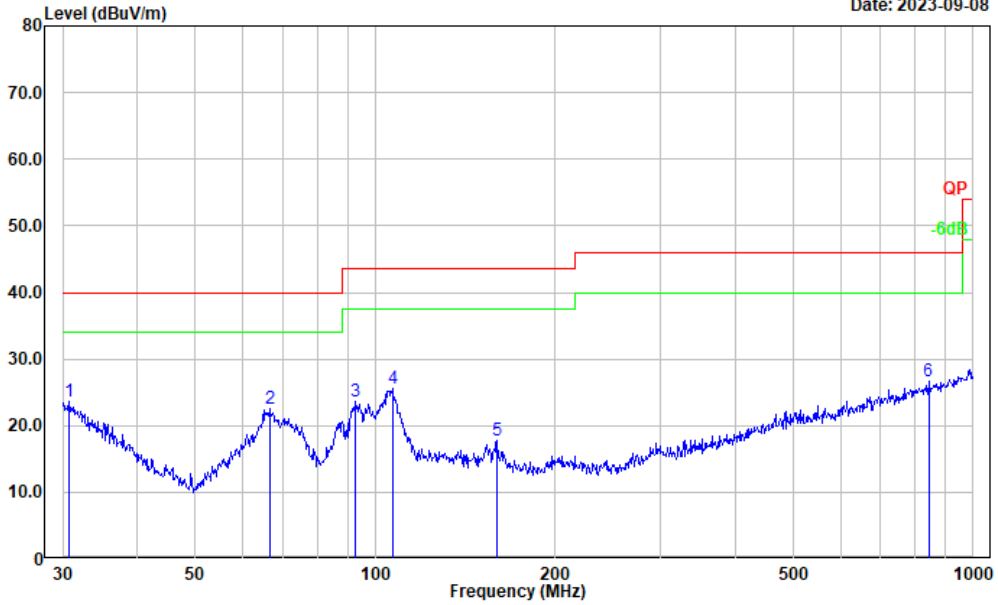
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

1) 30MHz-1GHz:

M1:

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note:

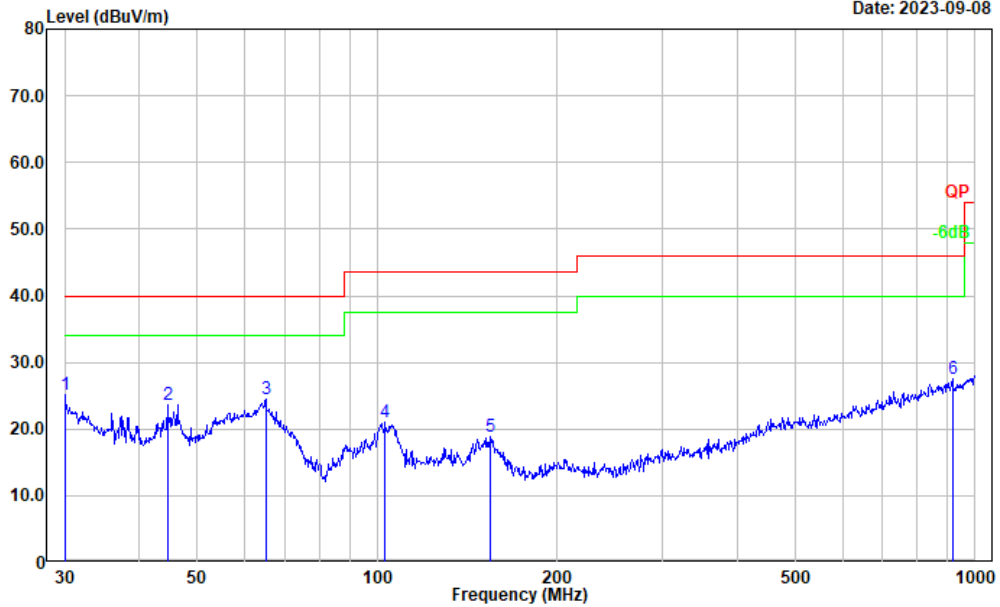
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.745	27.73	-4.17	23.56	40.00	16.44	Peak
2	66.499	39.27	-16.82	22.45	40.00	17.55	Peak
3	92.787	39.75	-16.22	23.53	43.50	19.97	Peak
4	106.759	38.55	-12.96	25.59	43.50	17.91	Peak
5	159.784	29.74	-12.05	17.69	43.50	25.81	Peak
6	842.130	28.37	-1.63	26.74	46.00	19.26	Peak

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: vertical
 Note:

Date: 2023-09-08

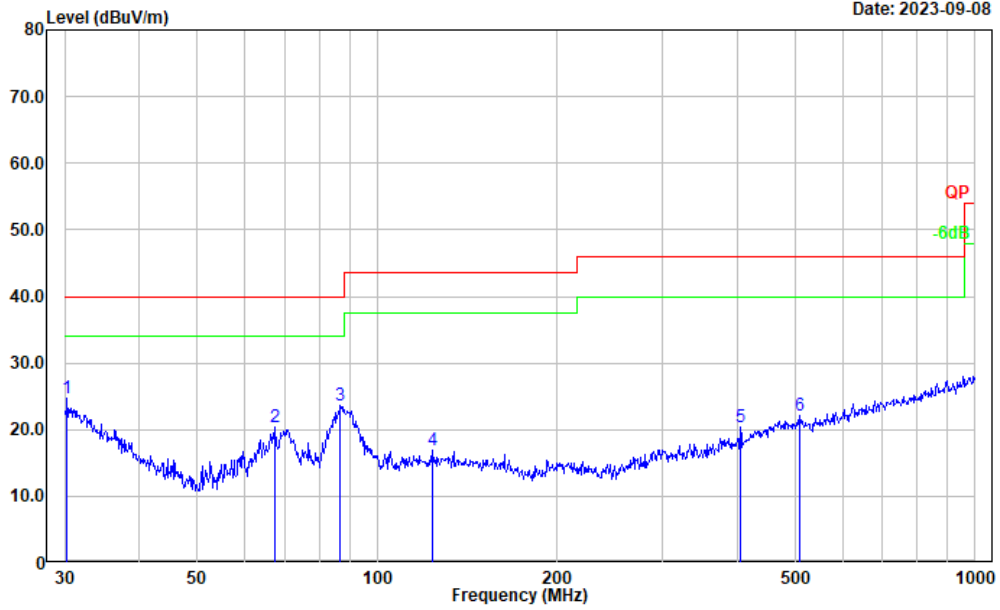


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	28.76	-3.60	25.16	40.00	14.84	Peak
2	44.587	37.68	-14.00	23.68	40.00	16.32	Peak
3	65.114	41.35	-16.92	24.43	40.00	15.57	Peak
4	103.080	34.76	-13.70	21.06	43.50	22.44	Peak
5	154.279	30.99	-12.03	18.96	43.50	24.54	Peak
6	916.069	28.25	-0.67	27.58	46.00	18.42	Peak

M2:

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note:

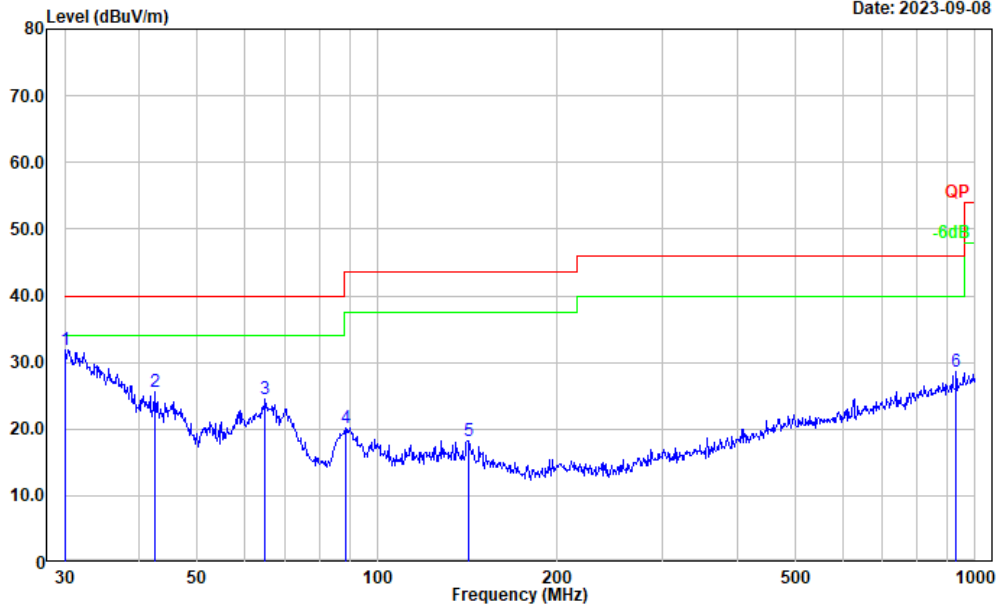
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	28.58	-3.85	24.73	40.00	15.27	Peak
2	67.438	37.03	-16.72	20.31	40.00	19.69	Peak
3	86.807	40.83	-17.10	23.73	40.00	16.27	Peak
4	123.699	28.29	-11.39	16.90	43.50	26.60	Peak
5	404.667	29.08	-8.64	20.44	46.00	25.56	Peak
6	510.044	27.84	-5.81	22.03	46.00	23.97	Peak

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: vertical
 Note:

Date: 2023-09-08

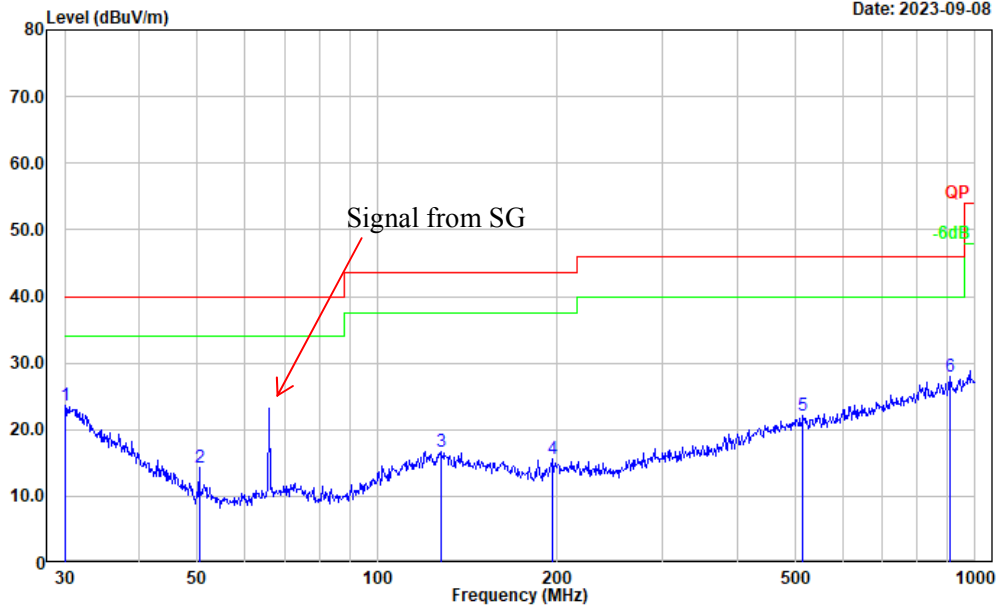


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	35.53	-3.60	31.93	40.00	8.07	Peak
2	42.451	38.23	-12.73	25.50	40.00	14.50	Peak
3	64.887	41.47	-16.94	24.53	40.00	15.47	Peak
4	88.342	37.21	-17.02	20.19	43.50	23.31	Peak
5	141.826	30.22	-11.92	18.30	43.50	25.20	Peak
6	929.008	29.14	-0.58	28.56	46.00	17.44	Peak

M3:

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note:

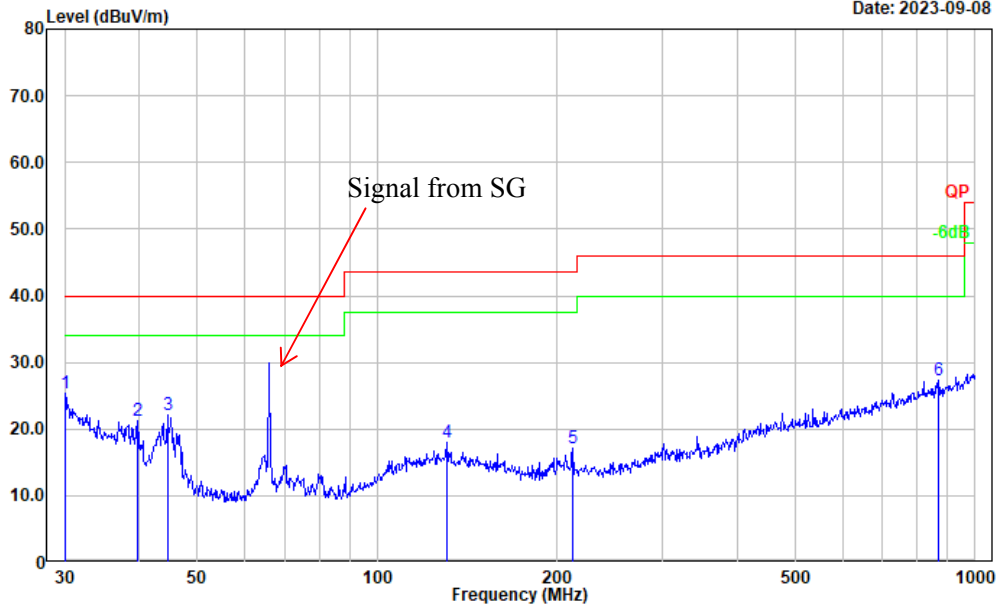
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	27.27	-3.68	23.59	40.00	16.41	Peak
2	50.409	31.51	-17.18	14.33	40.00	25.67	Peak
3	127.665	28.04	-11.30	16.74	43.50	26.76	Peak
4	196.510	28.12	-12.60	15.52	43.50	27.98	Peak
5	515.437	28.01	-5.83	22.18	46.00	23.82	Peak
6	909.667	28.74	-0.68	28.06	46.00	17.94	Peak

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: vertical
 Note:

Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	28.96	-3.68	25.28	40.00	14.72	Peak
2	39.715	32.43	-11.09	21.34	40.00	18.66	Peak
3	44.587	36.20	-14.00	22.20	40.00	17.80	Peak
4	130.837	29.42	-11.33	18.09	43.50	25.41	Peak
5	212.270	29.59	-12.54	17.05	43.50	26.45	Peak
6	869.130	28.53	-1.21	27.32	46.00	18.68	Peak

M4:

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note:

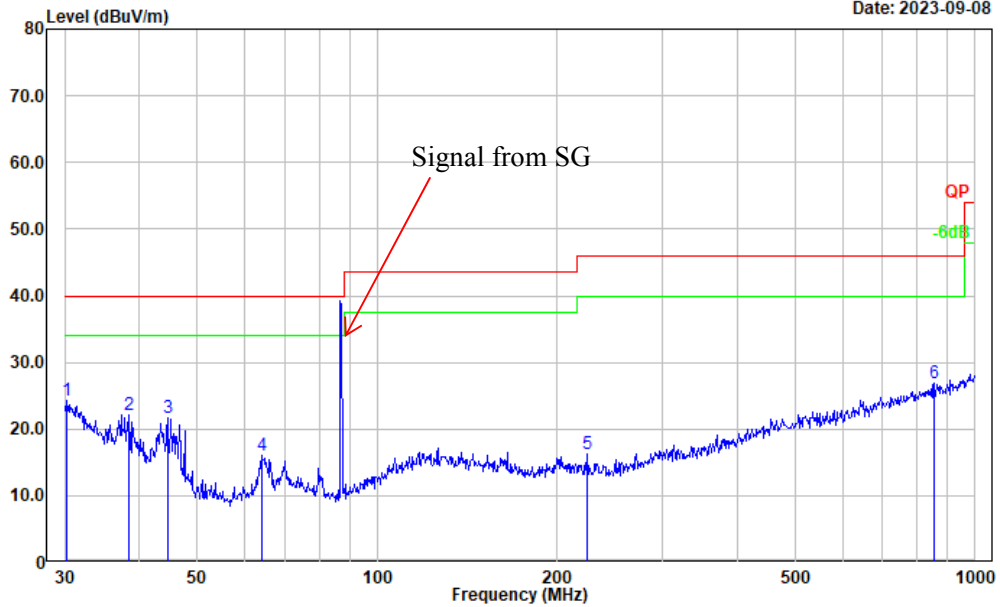
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	27.61	-3.68	23.93	40.00	16.07	Peak
2	50.057	30.77	-17.16	13.61	40.00	26.39	Peak
3	69.357	28.96	-16.56	12.40	40.00	27.60	Peak
4	198.588	28.48	-12.38	16.10	43.50	27.40	Peak
5	422.058	29.14	-7.83	21.31	46.00	24.69	Peak
6	721.726	29.86	-3.22	26.64	46.00	19.36	Peak

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: vertical
 Note:

Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	28.18	-3.85	24.33	40.00	15.67	Peak
2	38.481	32.28	-10.11	22.17	40.00	17.83	Peak
3	44.587	35.76	-14.00	21.76	40.00	18.24	Peak
4	63.983	33.01	-17.04	15.97	40.00	24.03	Peak
5	224.519	29.08	-12.85	16.23	46.00	29.77	Peak
6	854.025	28.26	-1.41	26.85	46.00	19.15	Peak

M5:

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note:

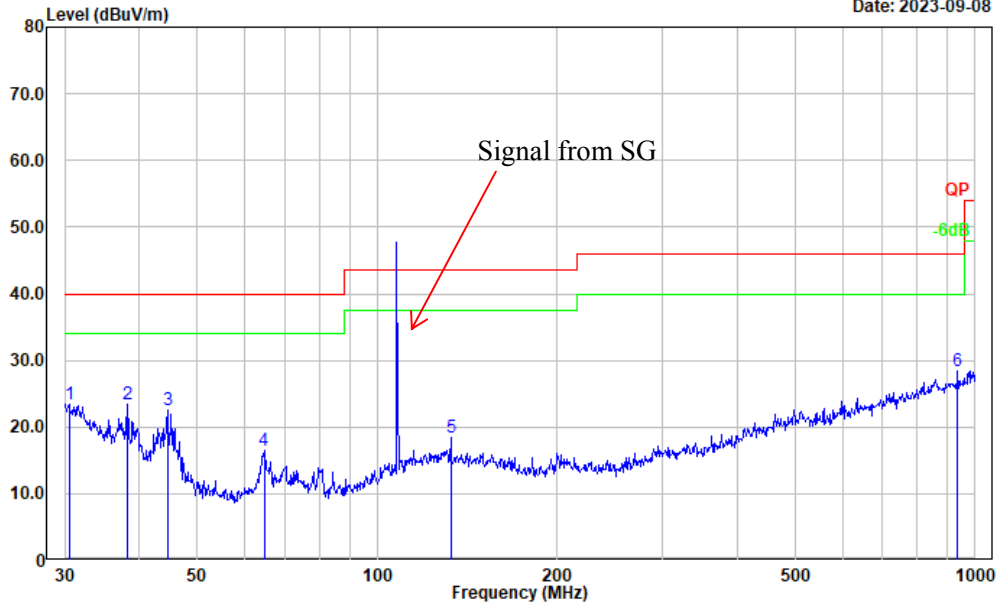
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	27.15	-3.68	23.47	40.00	16.53	Peak
2	73.876	28.74	-16.88	11.86	40.00	28.14	Peak
3	139.361	28.75	-11.83	16.92	43.50	26.58	Peak
4	352.943	28.50	-9.98	18.52	46.00	27.48	Peak
5	508.258	28.75	-5.85	22.90	46.00	23.10	Peak
6	982.620	27.95	0.51	28.46	54.00	25.54	Peak

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: vertical
 Note:

Date: 2023-09-08

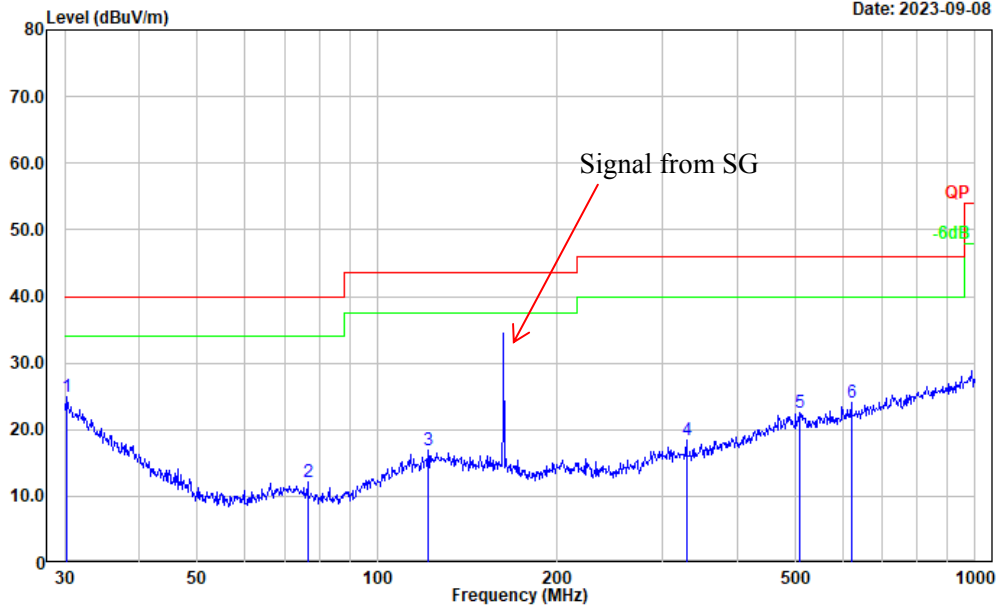


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.45	-4.00	23.45	40.00	16.55	Peak
2	38.212	33.24	-9.91	23.33	40.00	16.67	Peak
3	44.587	36.62	-14.00	22.62	40.00	17.38	Peak
4	64.659	33.47	-16.96	16.51	40.00	23.49	Peak
5	132.685	29.92	-11.48	18.44	43.50	25.06	Peak
6	935.546	29.01	-0.50	28.51	46.00	17.49	Peak

M6:

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note:

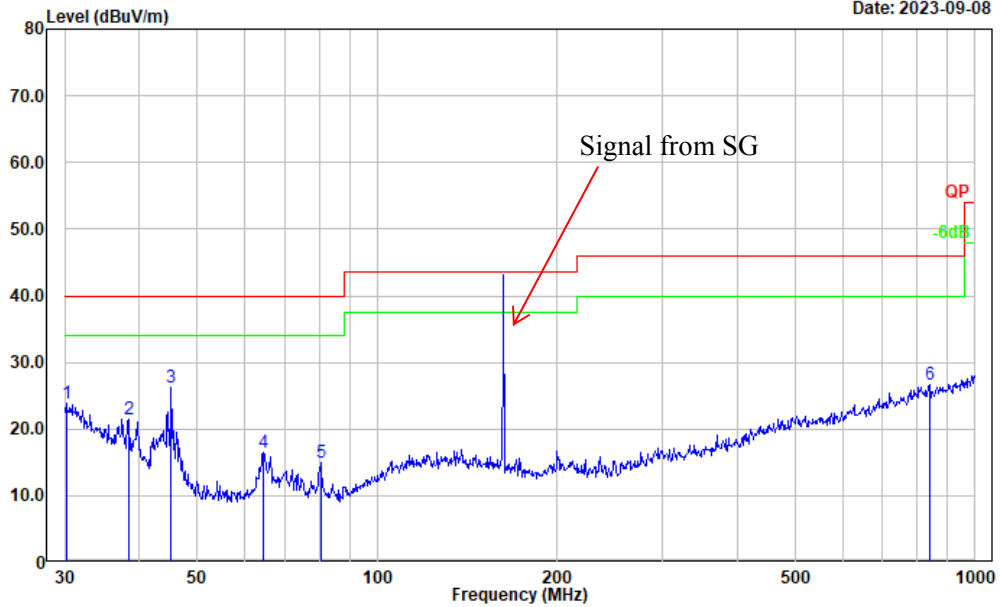
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	28.72	-3.85	24.87	40.00	15.13	Peak
2	76.512	29.31	-17.09	12.22	40.00	27.78	Peak
3	121.549	28.37	-11.43	16.94	43.50	26.56	Peak
4	329.039	28.65	-10.26	18.39	46.00	27.61	Peak
5	508.258	28.31	-5.85	22.46	46.00	23.54	Peak
6	620.710	28.79	-4.72	24.07	46.00	21.93	Peak

Project No.: CR230849681-RF
 Tester: Carl Xue
 Polarization: vertical
 Note:

Date: 2023-09-08



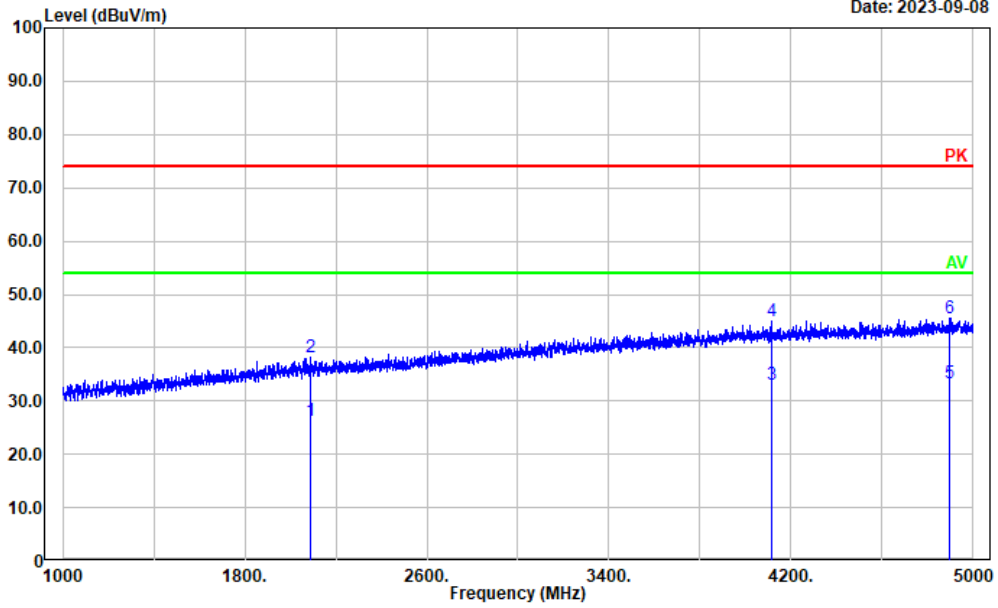
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.57	-3.76	23.81	40.00	16.19	Peak
2	38.346	31.55	-10.00	21.55	40.00	18.45	Peak
3	45.217	40.51	-14.36	26.15	40.00	13.85	Peak
4	64.433	33.57	-17.00	16.57	40.00	23.43	Peak
5	80.362	32.40	-17.43	14.97	40.00	25.03	Peak
6	839.182	28.26	-1.69	26.57	46.00	19.43	Peak

2) Above 1GHz

M1:

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: horizontal
 Note:

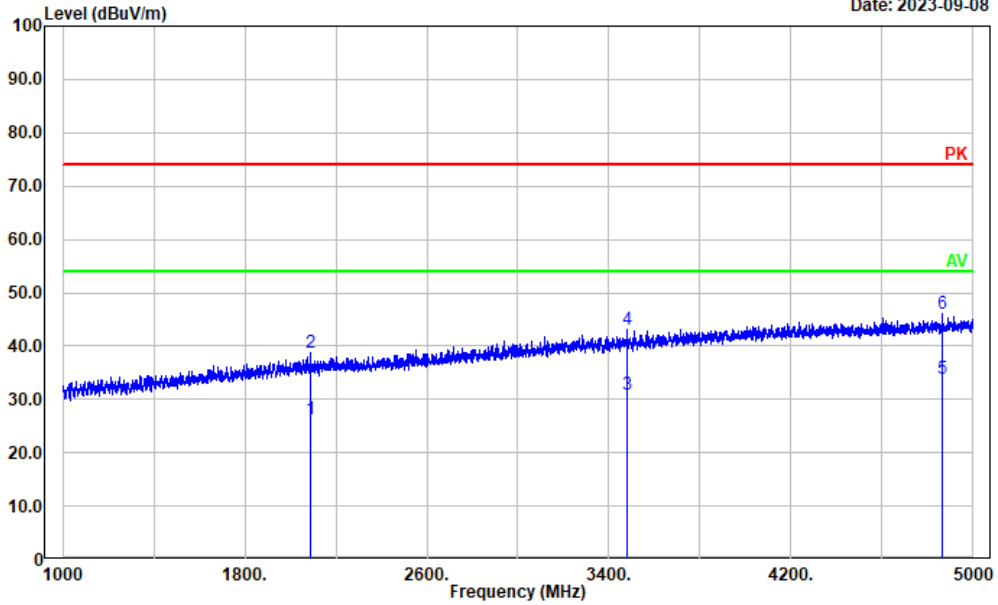
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2087.417	23.56	2.60	26.16	54.00	27.84	Average
2	2087.417	35.72	2.60	38.32	74.00	35.68	Peak
3	4113.423	23.49	9.54	33.03	54.00	20.97	Average
4	4113.423	35.52	9.54	45.06	74.00	28.94	Peak
5	4895.179	22.19	11.11	33.30	54.00	20.70	Average
6	4895.179	34.48	11.11	45.59	74.00	28.41	Peak

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

Date: 2023-09-08

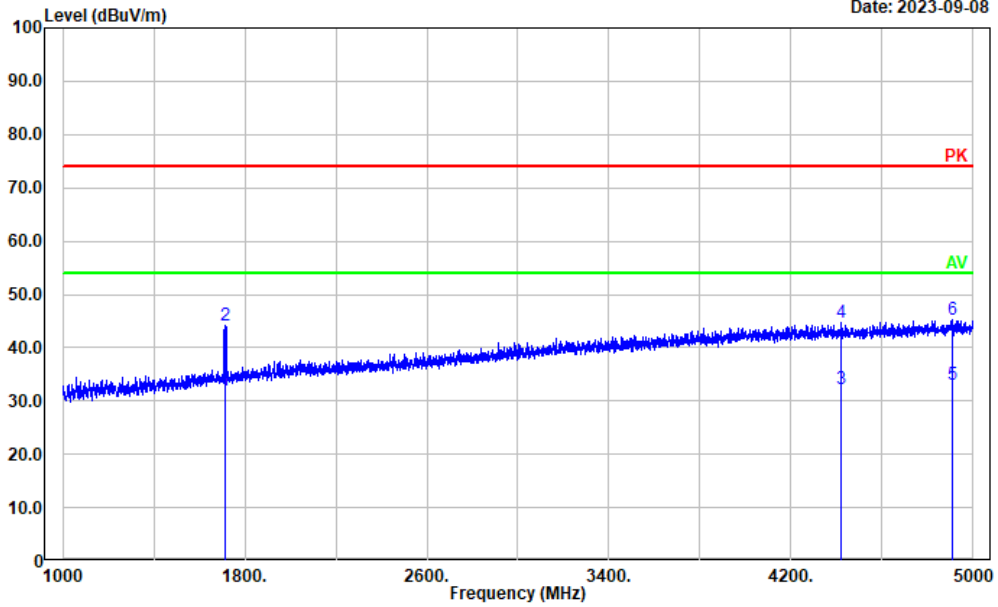


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2087.417	23.71	2.60	26.31	54.00	27.69	Average
2	2087.417	36.02	2.60	38.62	74.00	35.38	Peak
3	3478.896	23.47	7.55	31.02	54.00	22.98	Average
4	3478.896	35.48	7.55	43.03	74.00	30.97	Peak
5	4866.373	22.98	11.03	34.01	54.00	19.99	Average
6	4866.373	34.99	11.03	46.02	74.00	27.98	Peak

M2:

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: horizontal
 Note:

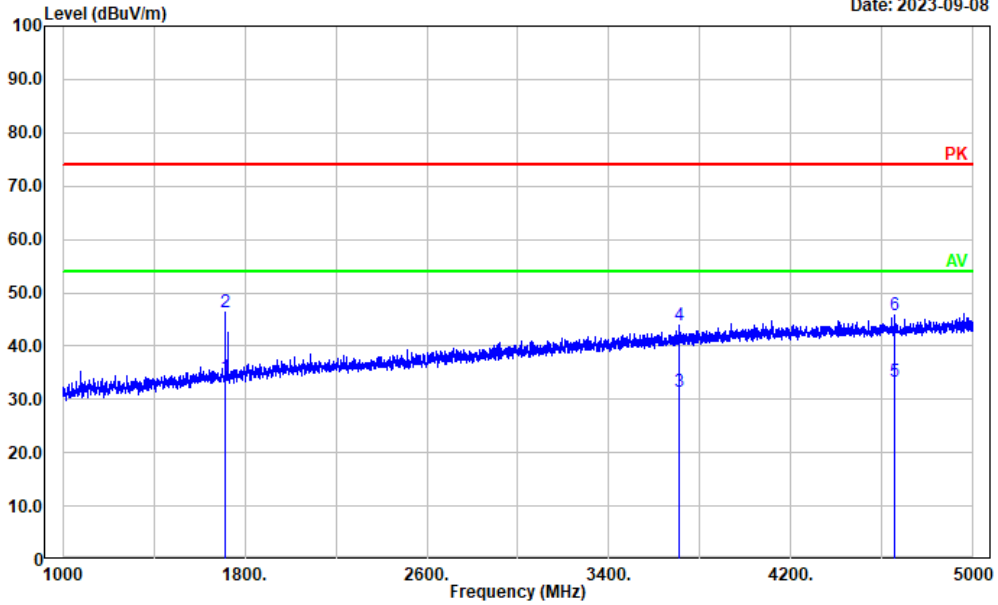
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1711.342	31.29	0.79	32.08	54.00	21.92	Average
2	1711.342	43.38	0.79	44.17	74.00	29.83	Peak
3	4422.285	22.44	9.87	32.31	54.00	21.69	Average
4	4422.285	34.75	9.87	44.62	74.00	29.38	Peak
5	4906.381	21.95	11.14	33.09	54.00	20.91	Average
6	4906.381	34.04	11.14	45.18	74.00	28.82	Peak

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

Date: 2023-09-08

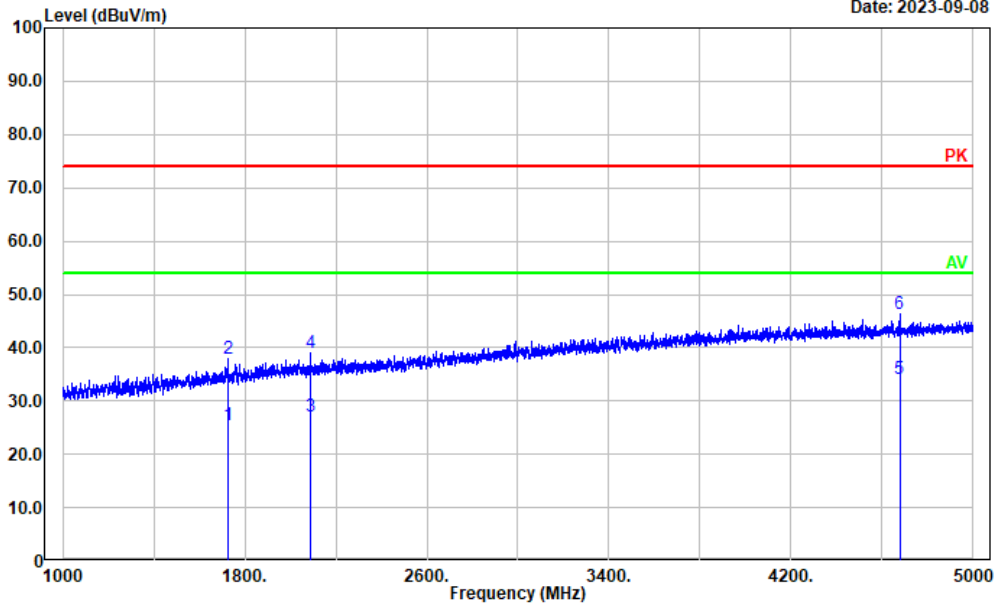


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1713.743	33.32	0.79	34.11	54.00	19.89	Average
2	1713.743	45.43	0.79	46.22	74.00	27.78	Peak
3	3710.942	23.03	8.38	31.41	54.00	22.59	Average
4	3710.942	35.43	8.38	43.81	74.00	30.19	Peak
5	4657.532	22.86	10.48	33.34	54.00	20.66	Average
6	4657.532	35.20	10.48	45.68	74.00	28.32	Peak

M3:

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: horizontal
 Note:

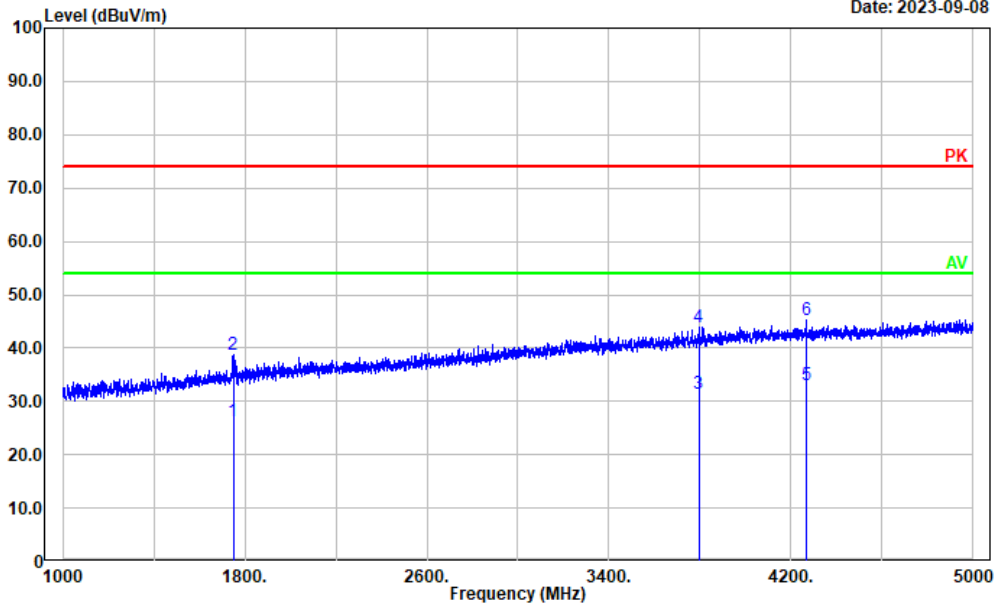
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1724.945	24.59	0.84	25.43	54.00	28.57	Average
2	1724.945	37.01	0.84	37.85	74.00	36.15	Peak
3	2087.417	24.42	2.60	27.02	54.00	26.98	Average
4	2087.417	36.43	2.60	39.03	74.00	34.97	Peak
5	4676.735	23.66	10.49	34.15	54.00	19.85	Average
6	4676.735	35.81	10.49	46.30	74.00	27.70	Peak

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

Date: 2023-09-08

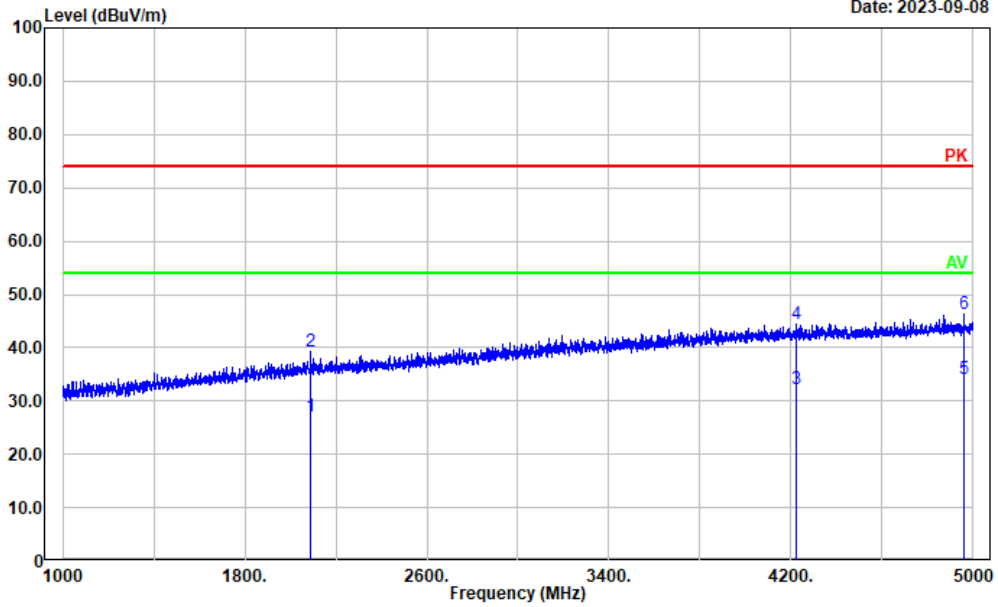


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1748.950	25.44	0.97	26.41	54.00	27.59	Average
2	1748.950	37.85	0.97	38.82	74.00	35.18	Peak
3	3794.159	22.73	8.73	31.46	54.00	22.54	Average
4	3794.159	35.18	8.73	43.91	74.00	30.09	Peak
5	4267.854	23.38	9.70	33.08	54.00	20.92	Average
6	4267.854	35.46	9.70	45.16	74.00	28.84	Peak

M4:

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: horizontal
 Note:

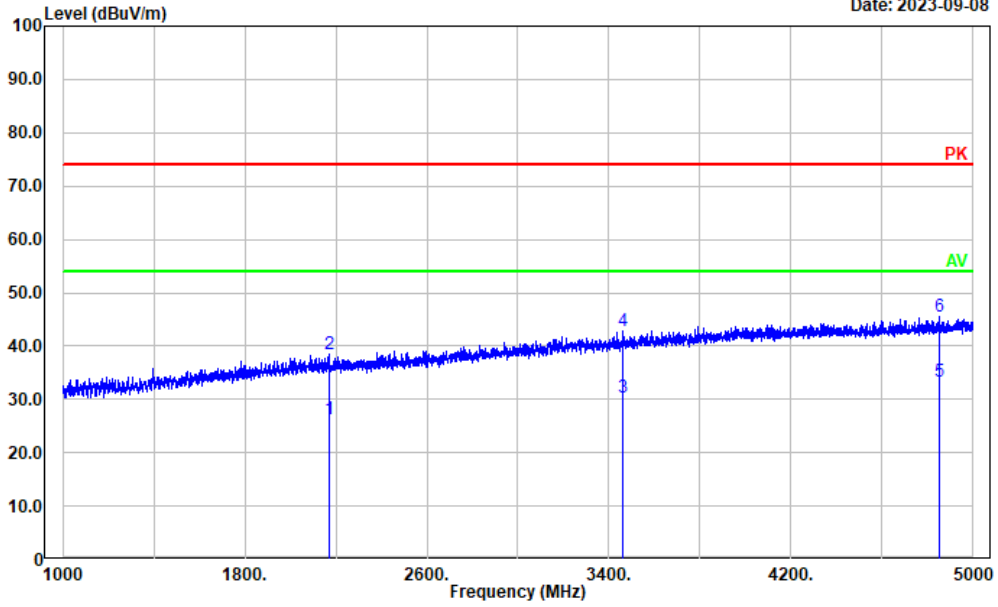
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	2087.417	24.48	2.60	27.08	54.00	26.92	Average
2	2087.417	36.57	2.60	39.17	74.00	34.83	Peak
3	4224.645	22.46	9.70	32.16	54.00	21.84	Average
4	4224.645	34.62	9.70	44.32	74.00	29.68	Peak
5	4959.192	22.98	11.23	34.21	54.00	19.79	Average
6	4959.192	35.20	11.23	46.43	74.00	27.57	Peak

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

Date: 2023-09-08

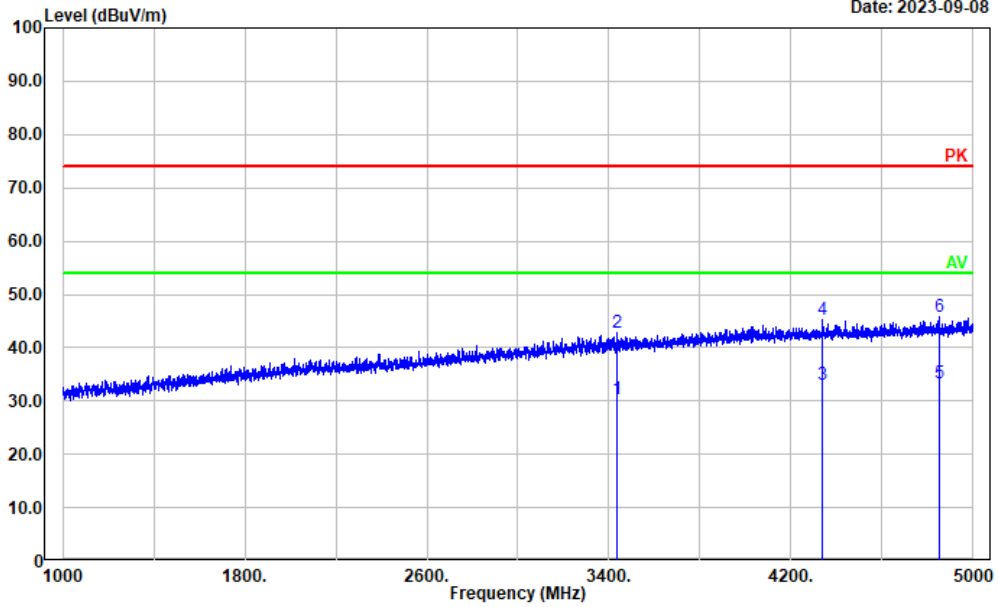


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2172.234	23.34	2.87	26.21	54.00	27.79	Average
2	2172.234	35.56	2.87	38.43	74.00	35.57	Peak
3	3462.093	22.92	7.50	30.42	54.00	23.58	Average
4	3462.093	35.33	7.50	42.83	74.00	31.17	Peak
5	4851.970	22.28	10.97	33.25	54.00	20.75	Average
6	4851.970	34.52	10.97	45.49	74.00	28.51	Peak

M5:

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: horizontal
 Note:

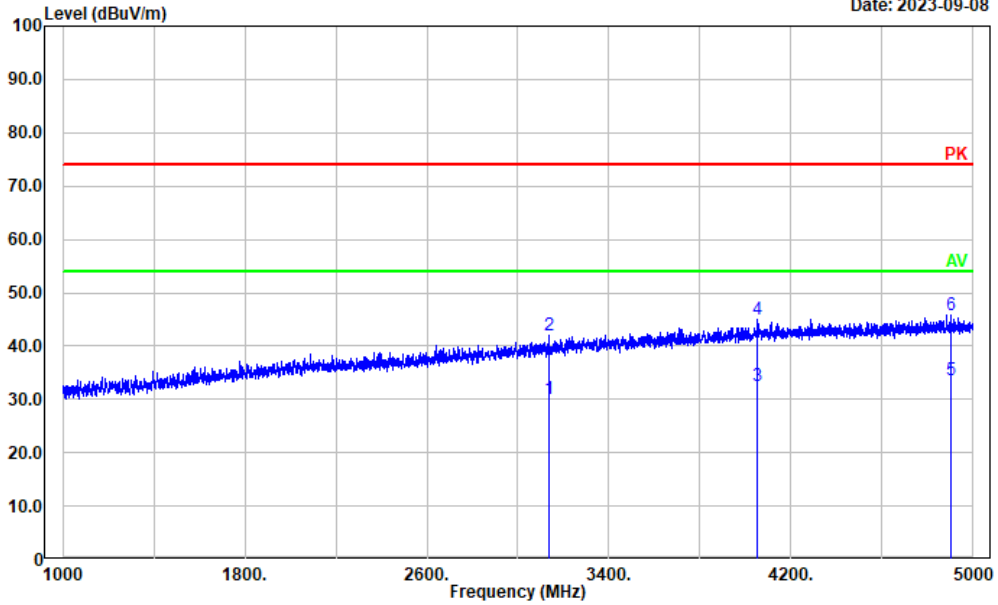
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3433.287	22.98	7.40	30.38	54.00	23.62	Average
2	3433.287	35.36	7.40	42.76	74.00	31.24	Peak
3	4339.068	23.31	9.77	33.08	54.00	20.92	Average
4	4339.068	35.39	9.77	45.16	74.00	28.84	Peak
5	4848.770	22.37	10.97	33.34	54.00	20.66	Average
6	4848.770	34.70	10.97	45.67	74.00	28.33	Peak

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

Date: 2023-09-08

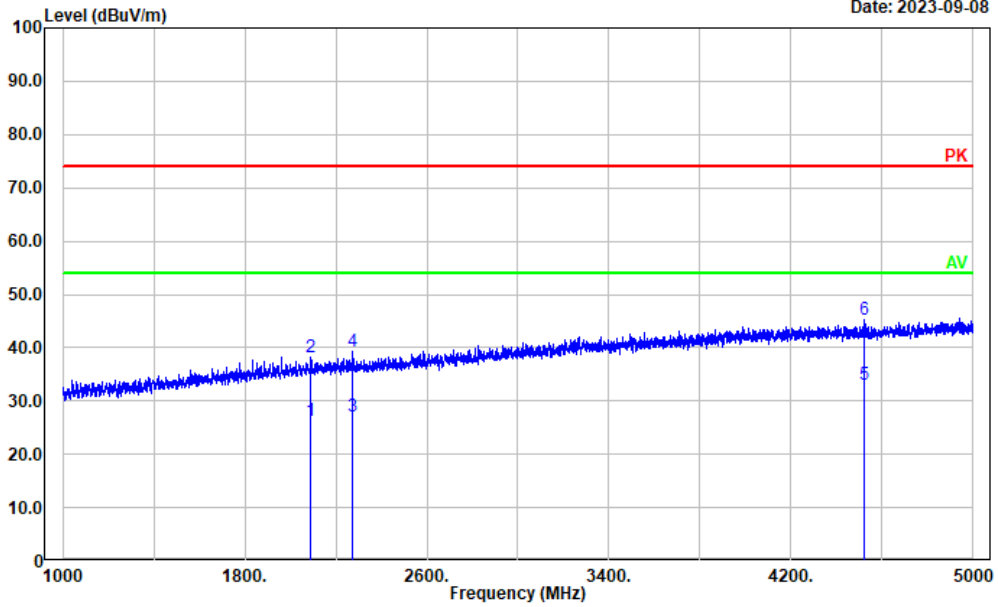


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3138.028	23.46	6.56	30.02	54.00	23.98	Average
2	3138.028	35.45	6.56	42.01	74.00	31.99	Peak
3	4050.210	23.05	9.42	32.47	54.00	21.53	Average
4	4050.210	35.52	9.42	44.94	74.00	29.06	Peak
5	4904.781	22.33	11.14	33.47	54.00	20.53	Average
6	4904.781	34.79	11.14	45.93	74.00	28.07	Peak

M6:

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: horizontal
 Note:

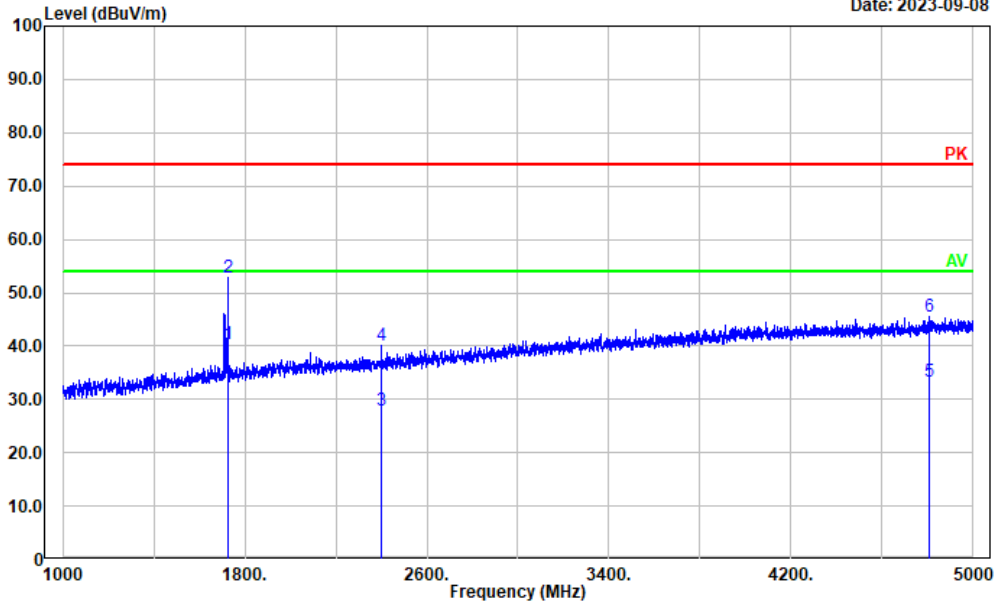
Date: 2023-09-08



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	2087.417	23.57	2.60	26.17	54.00	27.83	Average
2	2087.417	35.74	2.60	38.34	74.00	35.66	Peak
3	2275.455	24.09	3.09	27.18	54.00	26.82	Average
4	2275.455	36.26	3.09	39.35	74.00	34.65	Peak
5	4518.304	23.08	10.06	33.14	54.00	20.86	Average
6	4518.304	35.21	10.06	45.27	74.00	28.73	Peak

Project No.: CR230849681-RF
 Tester: Mack Huang
 Polarization: vertical
 Note:

Date: 2023-09-08



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1728.146	39.51	0.86	40.37	54.00	13.63	Average
2	1728.146	51.88	0.86	52.74	74.00	21.26	Peak
3	2401.880	24.51	3.53	28.04	54.00	25.96	Average
4	2401.880	36.55	3.53	40.08	74.00	33.92	Peak
5	4809.562	22.36	10.92	33.28	54.00	20.72	Average
6	4809.562	34.64	10.92	45.56	74.00	28.44	Peak

4.3 Antenna Power Conduction Limits for Receivers

Serial Number:	2B6T-1	Test Date:	2023/9/11
Test Site:	RF	Test Mode:	M3-M6
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

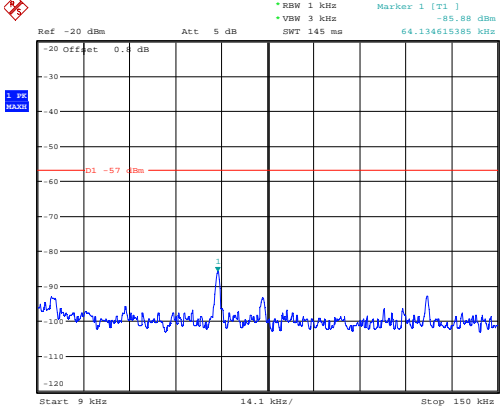
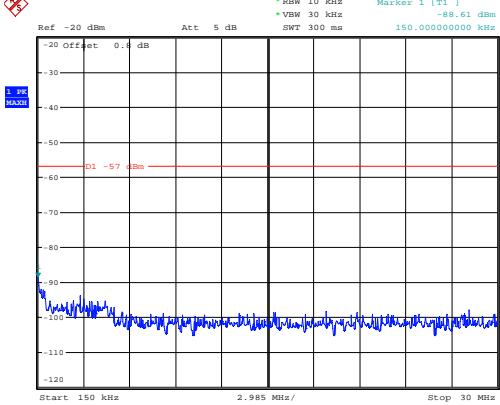
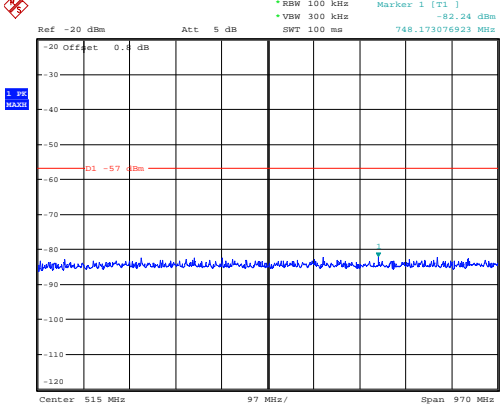
Temperature: (°C)	26.2	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

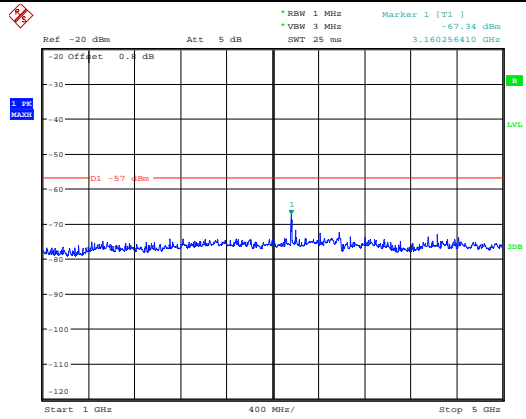
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* *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).*

Receiving at 66.1 MHz

<p>9KHz -150KHz</p>	 <p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:43:07</p>
<p>150KHz -30MHz</p>	 <p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:43:22</p>
<p>30MHz-1GHz</p>	 <p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:59:25</p>

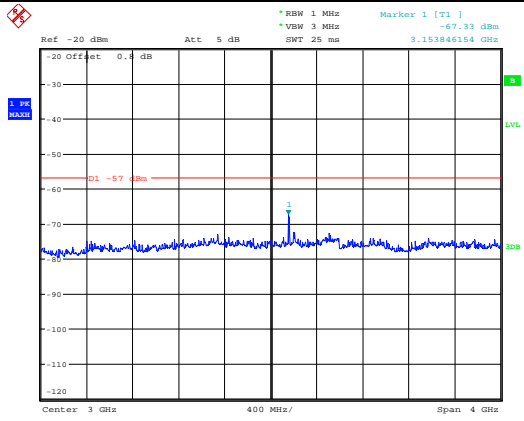
1GHz-5GHz



ProjectNo.:CR230849681-RF Tester:Arthur Su
Date: 11.SEP.2023 22:59:40

Receiving at 87.1 MHz	
9KHz -150KHz	<p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:43:49</p>
150KHz -30MHz	<p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:44:08</p>
30MHz-1GHz	<p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:59:56</p>

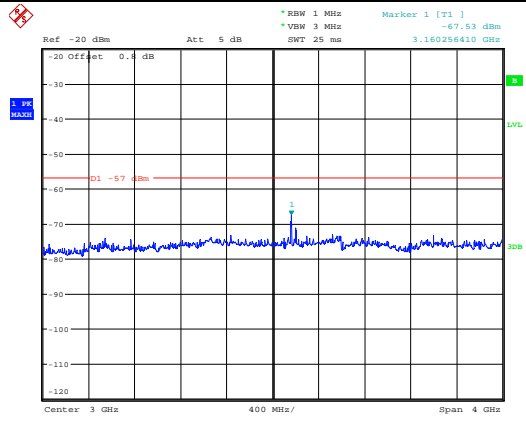
1GHz-5GHz



ProjectNo.:CR230849681-RF Tester:Arthur Su
Date: 11.SEP.2023 23:00:11

Receiving at 107.9MHz	
9KHz -150KHz	<p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:44:29</p>
150KHz -30MHz	<p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:45:39</p>
30MHz-1GHz	<p>ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 23:00:37</p>

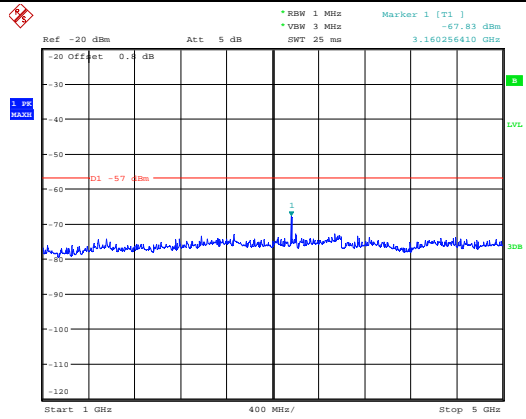
1GHz-5GHz



ProjectNo.:CR230849681-RF Tester:Arthur Su
Date: 11.SEP.2023 23:00:52

Receiving at 162.4250MHz	
9KHz -150KHz	<p> *RBW 1 kHz Marker 1 [T1] *VBW 3 kHz -86.12 dBm *SWT 145 ms 64.134615365 kHz </p> <p> Ref -20 dBm Att: 5 dB -20 Offset: 0.4 dB Start 9 kHz 14.1 kHz/ Stop 150 kHz </p> <p> ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:46:22 </p>
150KHz -30MHz	<p> *RBW 10 kHz Marker 1 [T1] *VBW 30 kHz -80.15 dBm *SWT 300 ms 197.836538462 kHz </p> <p> Ref -20 dBm Att: 5 dB -20 Offset: 0.4 dB Center 15.076 MHz 2.945 MHz/ Span 29.95 MHz </p> <p> ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 22:46:35 </p>
30MHz-1GHz	<p> *RBW 100 kHz Marker 1 [T1] *VBW 300 kHz -82.43 dBm *SWT 100 ms 473.028846154 MHz </p> <p> Ref -20 dBm Att: 5 dB -20 Offset: 0.4 dB Center 515 MHz 97 MHz/ Span 970 MHz </p> <p> ProjectNo.:CR230849681-RF Tester:Arthur Su Date: 11.SEP.2023 23:01:28 </p>

1GHz-5GHz



ProjectNo.:CR230849681-RF Tester:Arthur Su
Date: 11.SEP.2023 23:01:42

5. EUT PHOTOGRAPHS

Please refer to the attachment CR230849681-EXP EUT EXTERNAL PHOTOGRAPHS and CR230849681-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230849681-00B-TSP TEST SETUP PHOTOGRAPHS.

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