



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Dongguan Jane Eyre Electronic Technology Co., Ltd.

Address: No. 22, Hubin North Road, Qishi Town, Dongguan City, Guangdong Province, China

FCC ID: 2BFMR-JA-012

Product Name: Vibrator

Standard(s): FCC Part 15B
ANSI C63.4-2014

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: 2403T75628E-00

Date Of Issue: 2024/5/27

Reviewed By: Calvin Chen

Title: RF Engineer

Approved By: Sun Zhong

Title: Manager

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

No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China

Tel: +86-769-82016888

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.

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	2403T75628E-00	Original Report	2024/5/27

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Vibrator
EUT Model:	JA-012
Highest Operation Frequency:	2480MHz (Receiving)
Rated Input Voltage:	DC 5V charging from adapter or DC 3.7 from battery
Serial Number:	2L96-1
EUT Received Date:	2024/5/13
EUT Received Status:	Good

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

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 M2: Operating
Equipment Modifications:	No
EUT Exercise Software:	Love Spouse

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Fangxin	Adapter	FX2U-050200U	AD220930001
DongFeng	Phone	P3	UP3_BSGF187E000165

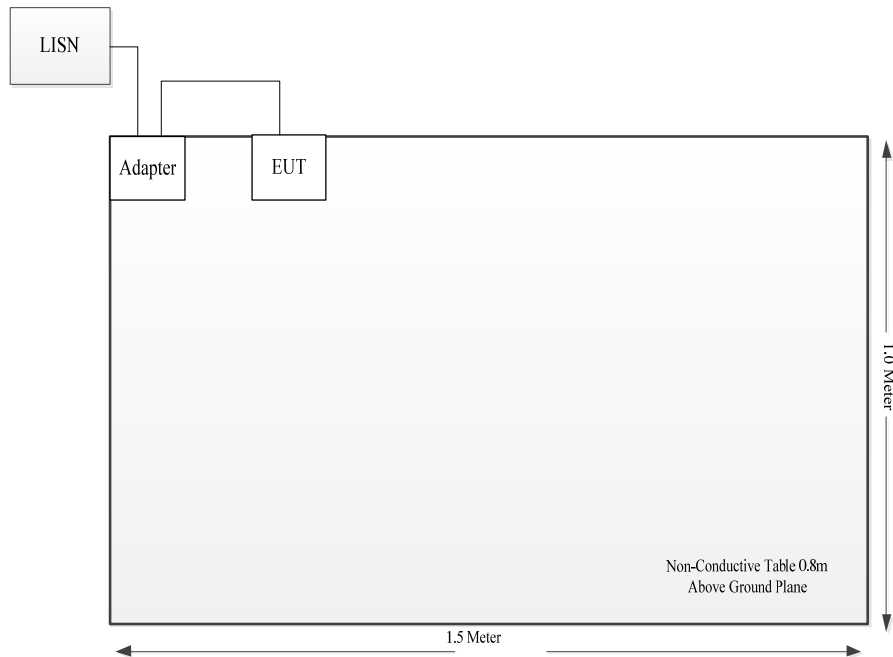
1.2.3 Support Cable List and Details

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

1.2.4 Block Diagram of Test Setup

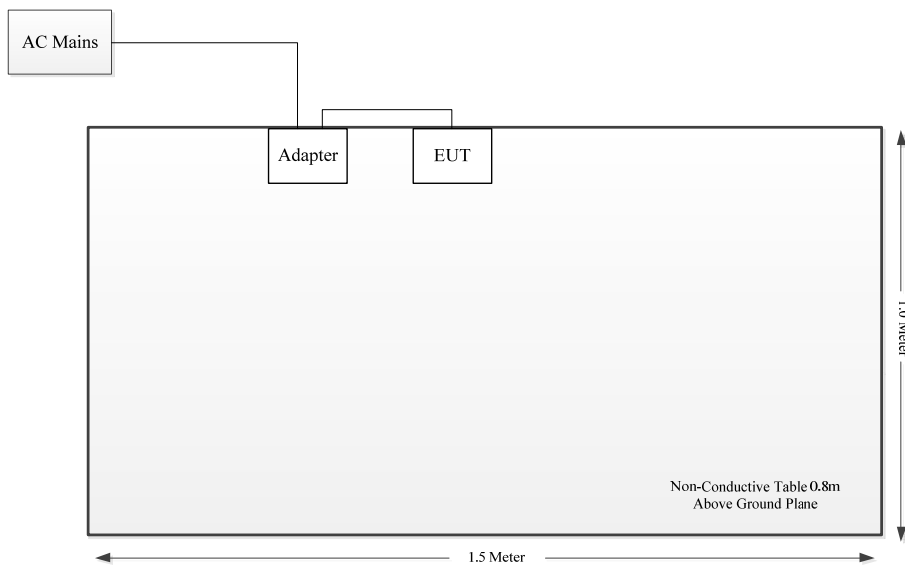
Conducted Emissions:

M1:

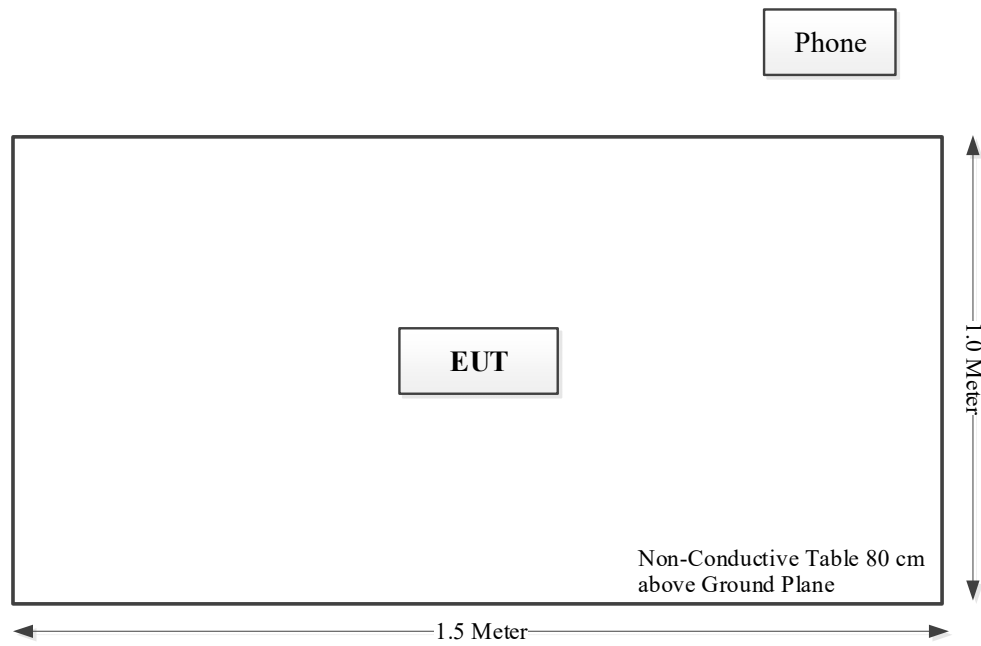


Radiated emissions:

M1:



M2:



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	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

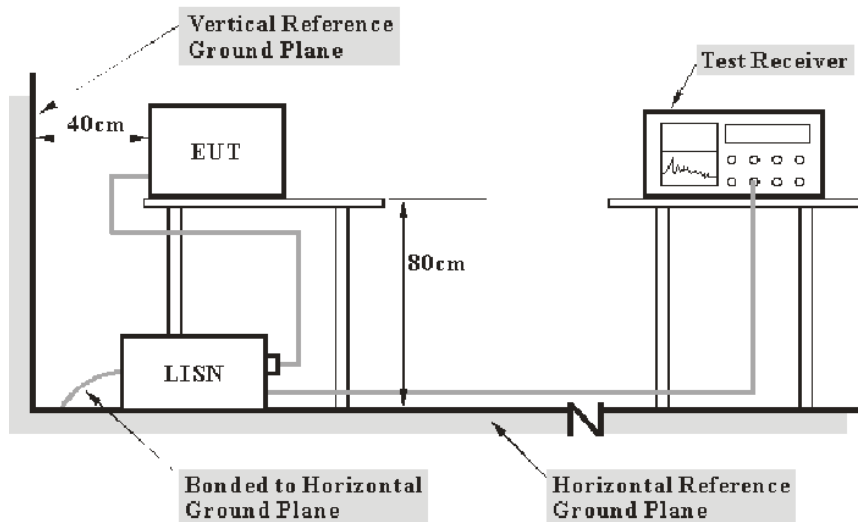
2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
§15.107	Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 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.

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

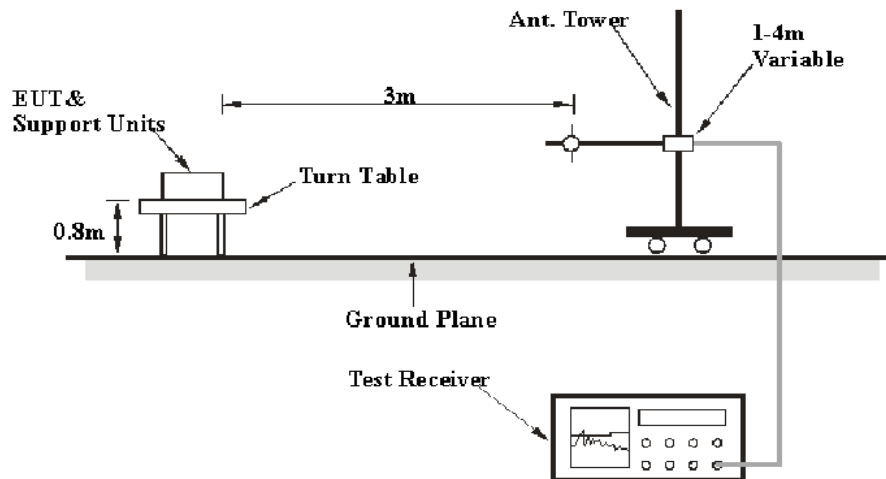
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

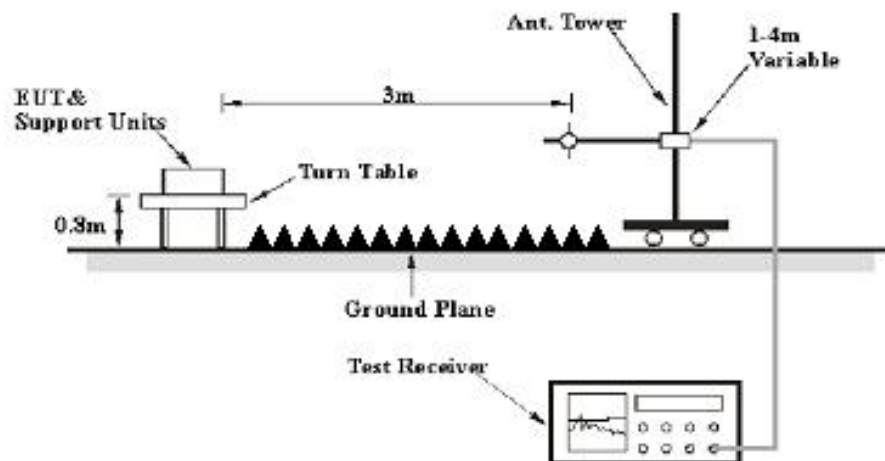
3.2 Radiation Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber, 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 13 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	100 kHz	300 kHz	/	PK
	/	/	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, peak and average detection mode above 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

4. TEST DATA AND RESULTS

4.1 Conducted Emissions

Serial Number:	2L96-1	Test Date:	2024/5/15
Test Site:	CE	Test Mode:	Charging
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.4	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101

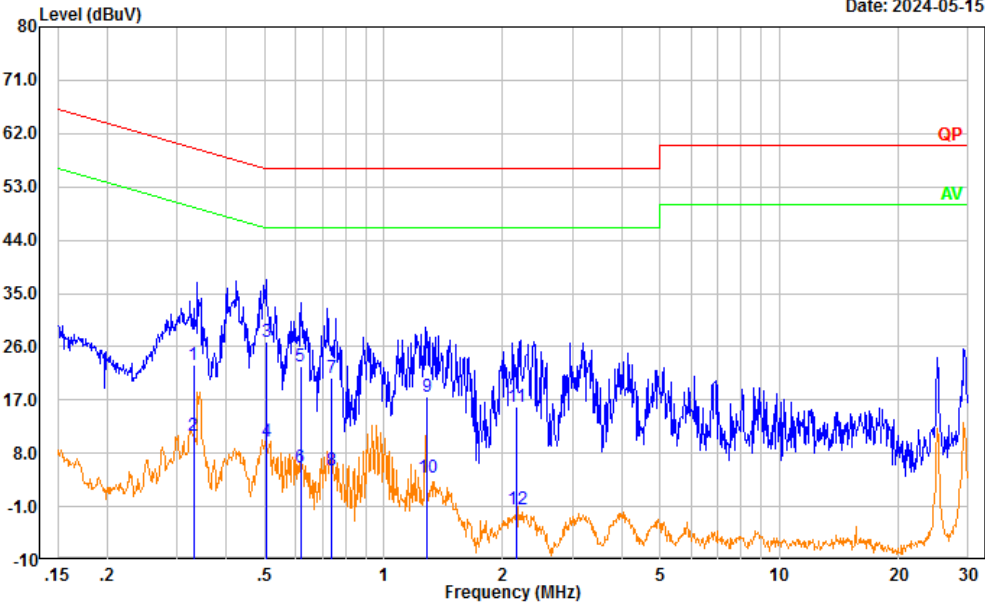
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2024/4/1	2025/3/31
R&S	EMI Test Receiver	ESR3	102726	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2024/1/15	2025/1/14
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).

Project No.: 2403T75628E-RF
 Tester: David Huang
 Port: Line
 Note: Charging

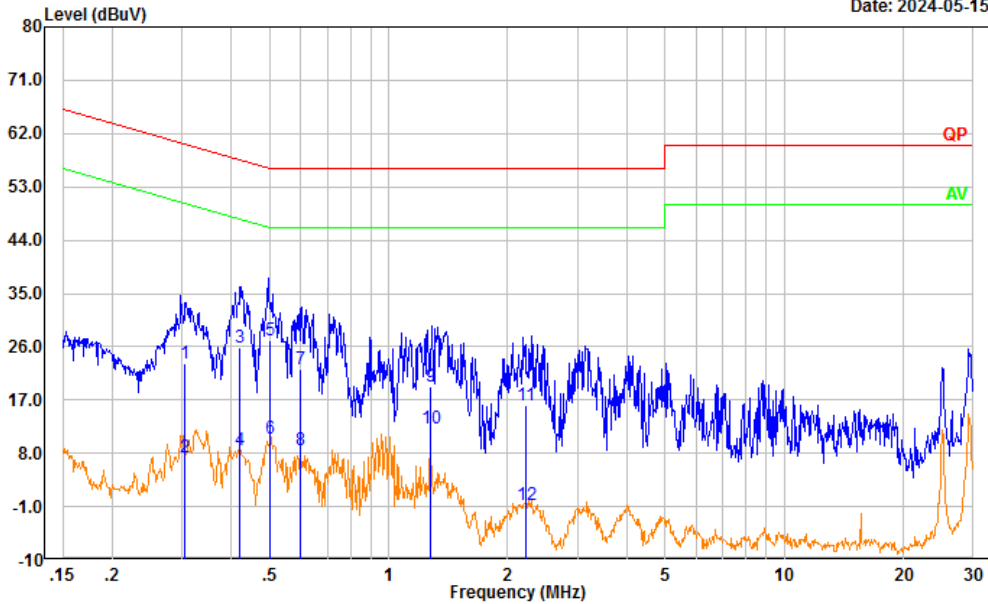
Date: 2024-05-15



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.331	12.71	10.23	22.94	59.44	36.50	QP
2	0.331	0.64	10.23	10.87	49.44	38.57	Average
3	0.507	16.40	10.52	26.92	56.00	29.08	QP
4	0.507	-0.47	10.52	10.05	46.00	35.95	Average
5	0.616	11.97	10.63	22.60	56.00	33.40	QP
6	0.616	-5.12	10.63	5.51	46.00	40.49	Average
7	0.739	10.09	10.70	20.79	56.00	35.21	QP
8	0.739	-5.60	10.70	5.10	46.00	40.90	Average
9	1.285	7.11	10.48	17.59	56.00	38.41	QP
10	1.285	-6.53	10.48	3.95	46.00	42.05	Average
11	2.160	5.59	10.15	15.74	56.00	40.26	QP
12	2.160	-11.66	10.15	-1.51	46.00	47.51	Average

Project No.: 2403T75628E-RF
 Tester: David Huang
 Port: neutral
 Note: Charging

Date: 2024-05-15



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.306	12.89	10.38	23.27	60.07	36.80	QP
2	0.306	-3.07	10.38	7.31	50.07	42.76	Average
3	0.421	15.40	10.46	25.86	57.43	31.57	QP
4	0.421	-1.81	10.46	8.65	47.43	38.78	Average
5	0.502	16.65	10.51	27.16	56.00	28.84	QP
6	0.502	-0.07	10.51	10.44	46.00	35.56	Average
7	0.601	11.82	10.36	22.18	56.00	33.82	QP
8	0.601	-1.86	10.36	8.50	46.00	37.50	Average
9	1.279	8.81	10.46	19.27	56.00	36.73	QP
10	1.279	1.77	10.46	12.23	46.00	33.77	Average
11	2.223	5.88	10.31	16.19	56.00	39.81	QP
12	2.223	-11.01	10.31	-0.70	46.00	46.70	Average

4.2 Radiation Spurious Emissions

Serial Number:	2L96-1	Test Date:	2024/5/15-2024/5/18
Test Site:	966-2,966-1	Test Mode:	M1, M2
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	57-61	ATM Pressure: (kPa)	100.6-101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
R&S	EMI Test Receiver	ESR3	102724	2024/2/29	2025/2/28
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/12/4	2024/12/3
Sonoma	Amplifier	310N	186165	2023/12/4	2024/12/3
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2024/1/15	2025/1/14
BACL	Preamplifier	1313-A20M18G	4032311	2024/4/1	2025/3/31
Audix	Test Software	E3	191218 (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).

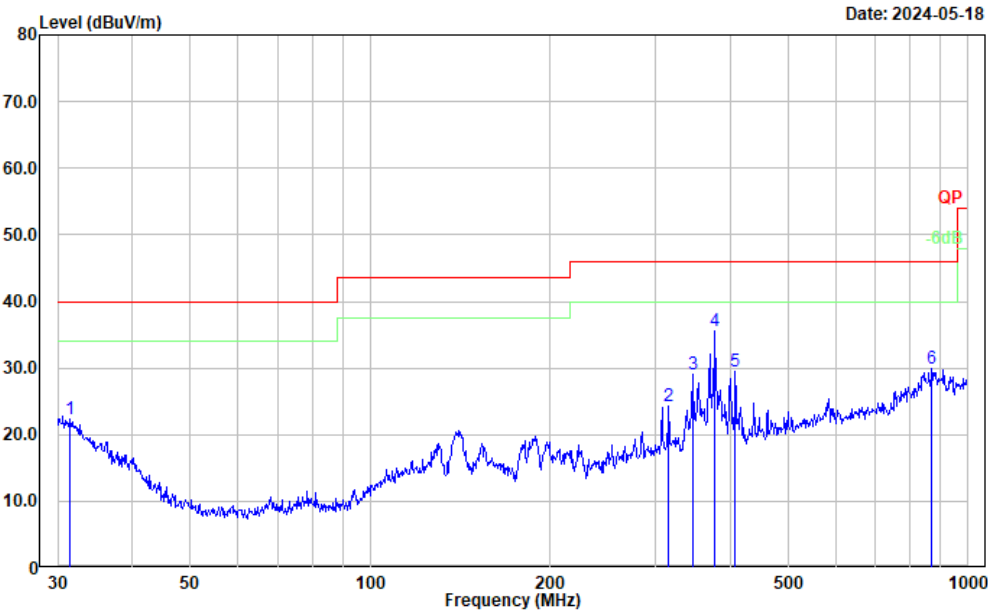
Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

1) 30MHz-1GHz

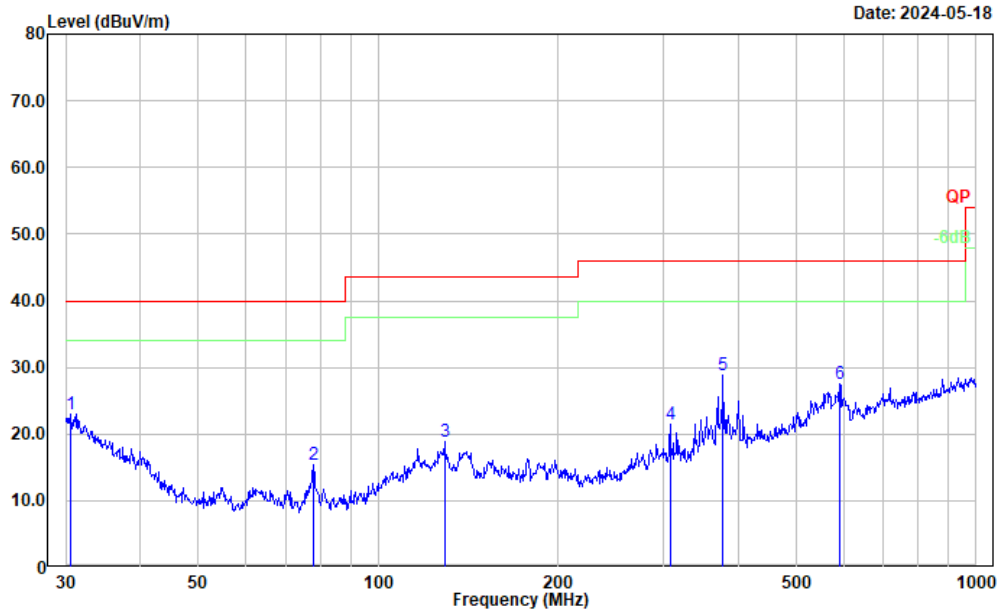
M1:

Project No.: 2403T75628E-RF
Tester: Carl Xue
Polarization: horizontal
Note: Charging



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.510	27.21	-4.87	22.34	40.00	17.66	Peak
2	315.481	34.44	-10.09	24.35	46.00	21.65	Peak
3	345.595	38.80	-9.69	29.11	46.00	16.89	Peak
4	377.259	44.41	-8.88	35.53	46.00	10.47	Peak
5	407.515	37.48	-8.00	29.48	46.00	16.52	Peak
6	869.130	30.56	-0.58	29.98	46.00	16.02	Peak

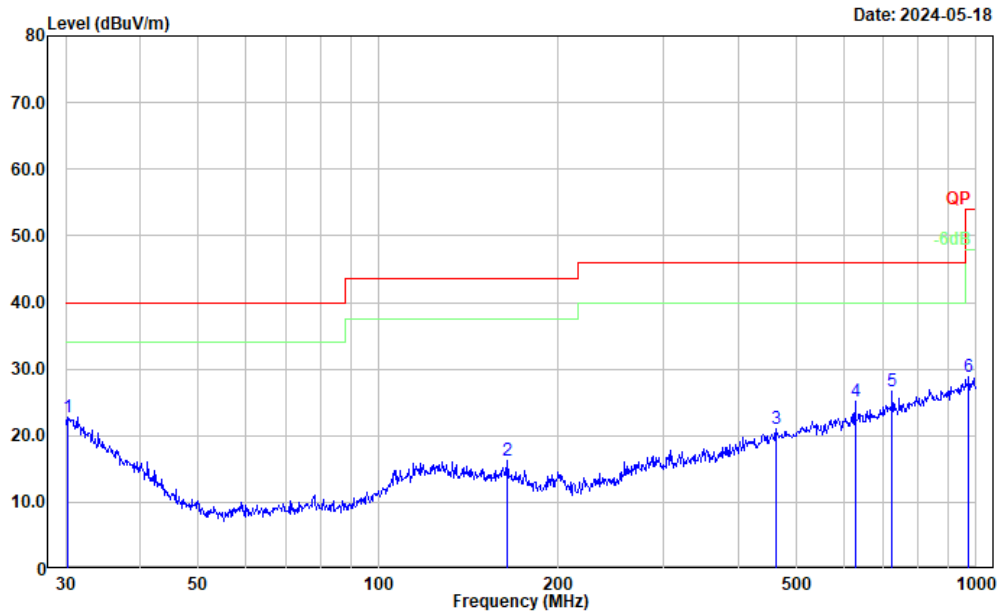
Project No.: 2403T75628E-RF
Tester: Carl Xue
Polarization: vertical
Note: Charging



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	27.29	-4.24	23.05	40.00	16.95	Peak
2	77.865	32.66	-17.16	15.50	40.00	24.50	Peak
3	129.015	29.96	-11.17	18.79	43.50	24.71	Peak
4	307.831	31.74	-10.24	21.50	46.00	24.50	Peak
5	377.259	37.72	-8.88	28.84	46.00	17.16	Peak
6	590.974	32.07	-4.58	27.49	46.00	18.51	Peak

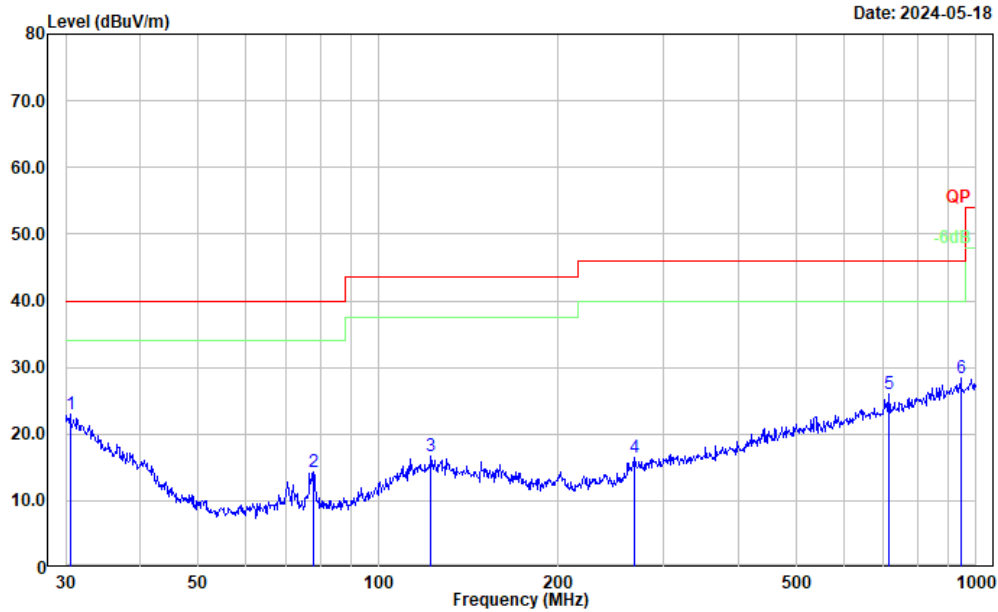
M2:

Project No.: 2403T75628E-RF
Tester: Carl Xue
Polarization: horizontal
Note: Operating



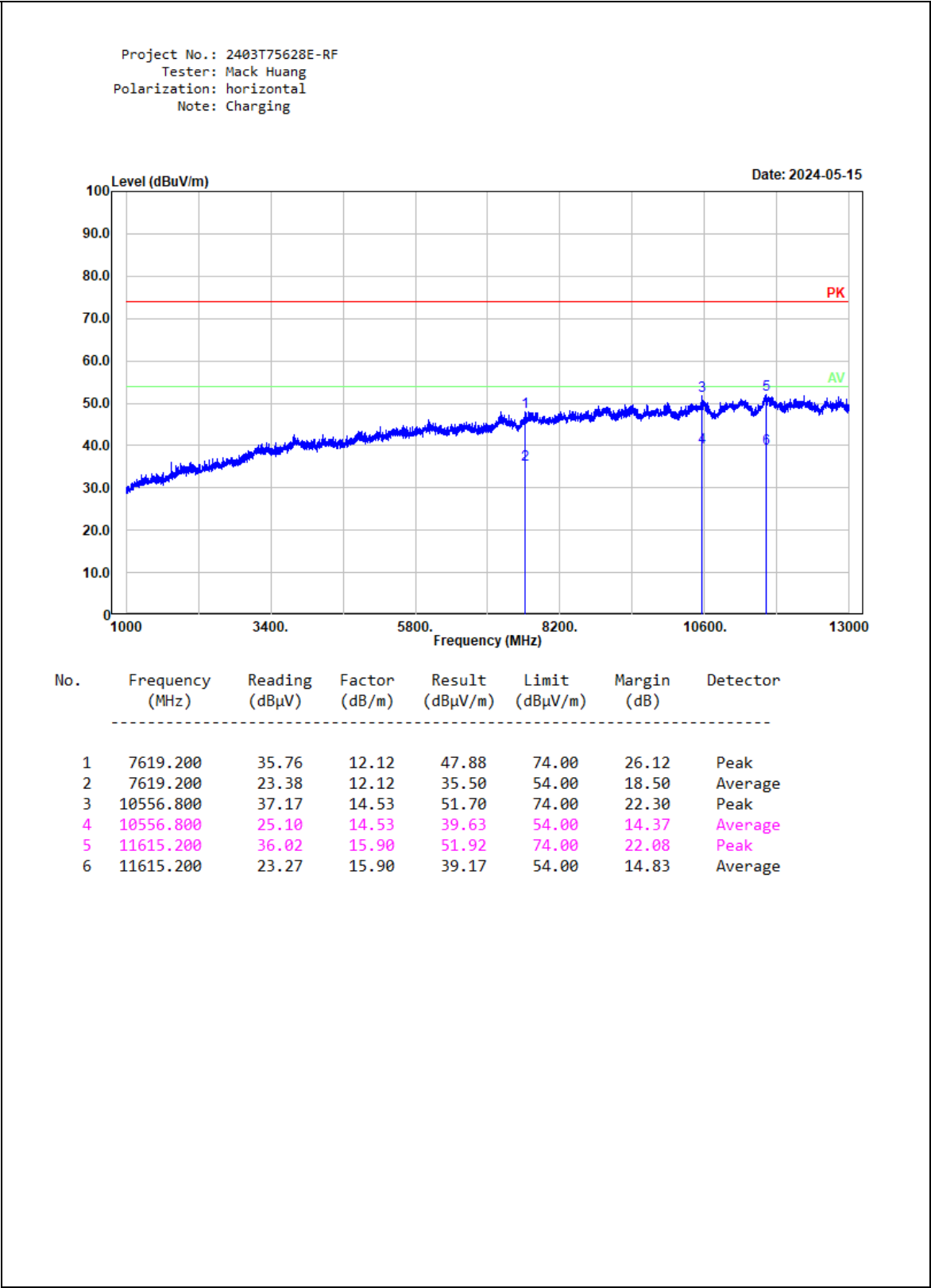
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	26.79	-4.06	22.73	40.00	17.27	Peak
2	164.330	28.46	-12.18	16.28	43.50	27.22	Peak
3	462.346	27.66	-6.53	21.13	46.00	24.87	Peak
4	627.274	29.34	-4.26	25.08	46.00	20.92	Peak
5	724.261	29.43	-2.75	26.68	46.00	19.32	Peak
6	972.337	27.46	1.33	28.79	54.00	25.21	Peak

Project No.: 2403T75628E-RF
Tester: Carl Xue
Polarization: vertical
Note: Operating

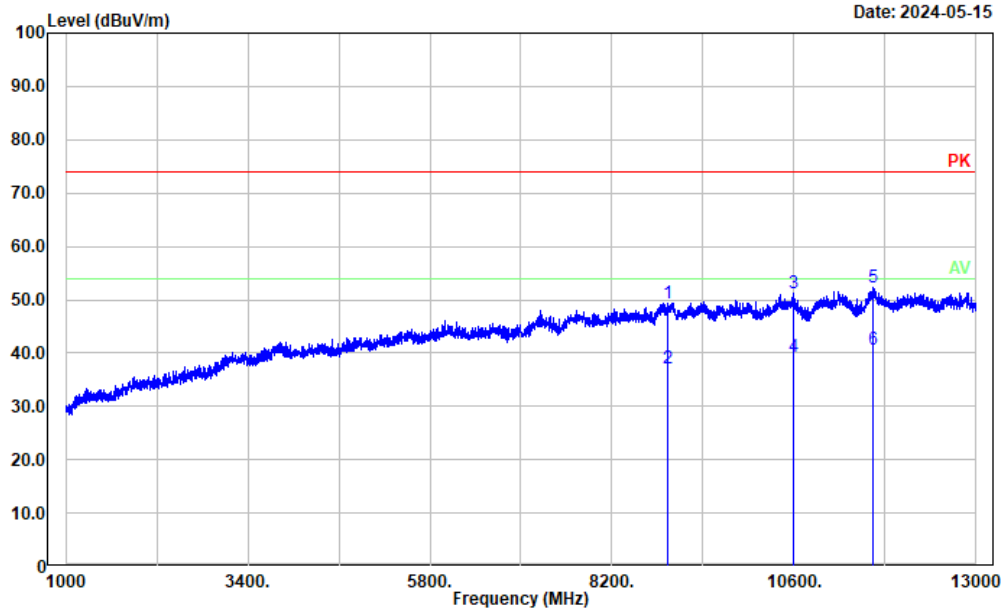


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.09	-4.18	22.91	40.00	17.09	Peak
2	77.865	31.48	-17.16	14.32	40.00	25.68	Peak
3	122.404	27.57	-10.90	16.67	43.50	26.83	Peak
4	267.546	27.40	-11.01	16.39	46.00	29.61	Peak
5	714.173	28.88	-2.78	26.10	46.00	19.90	Peak
6	942.131	27.68	0.82	28.50	46.00	17.50	Peak

2)Above 1GHz:
M1:



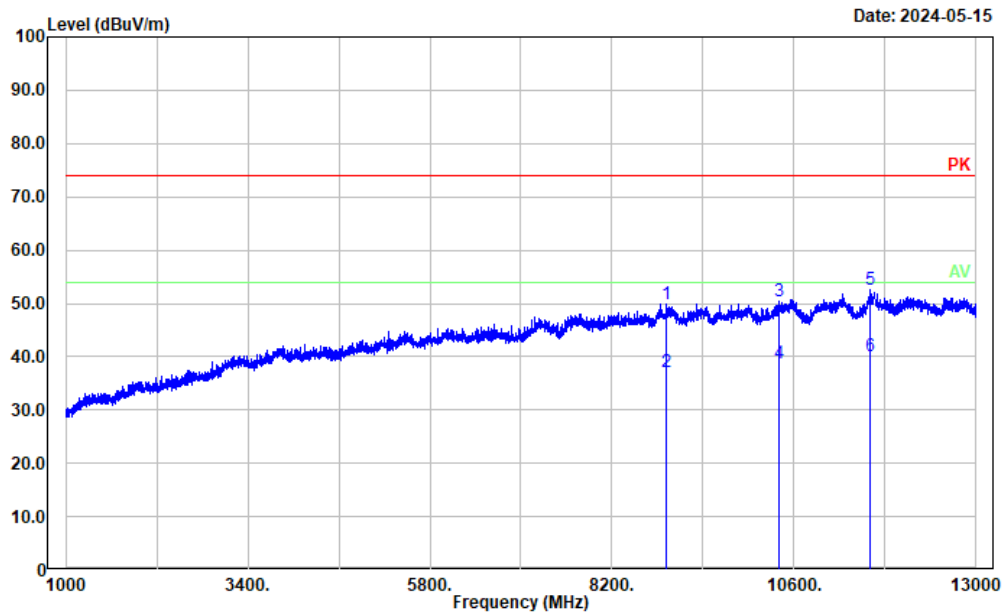
Project No.: 2403T75628E-RF
Tester: Mack Huang
Polarization: vertical
Note: Charging



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	8927.200	36.08	13.37	49.45	74.00	24.55	Peak
2	8927.200	23.73	13.37	37.10	54.00	16.90	Average
3	10590.400	36.58	14.68	51.26	74.00	22.74	Peak
4	10590.400	24.54	14.68	39.22	54.00	14.78	Average
5	11648.800	36.76	15.55	52.31	74.00	21.69	Peak
6	11648.800	25.23	15.55	40.78	54.00	13.22	Average

M2:

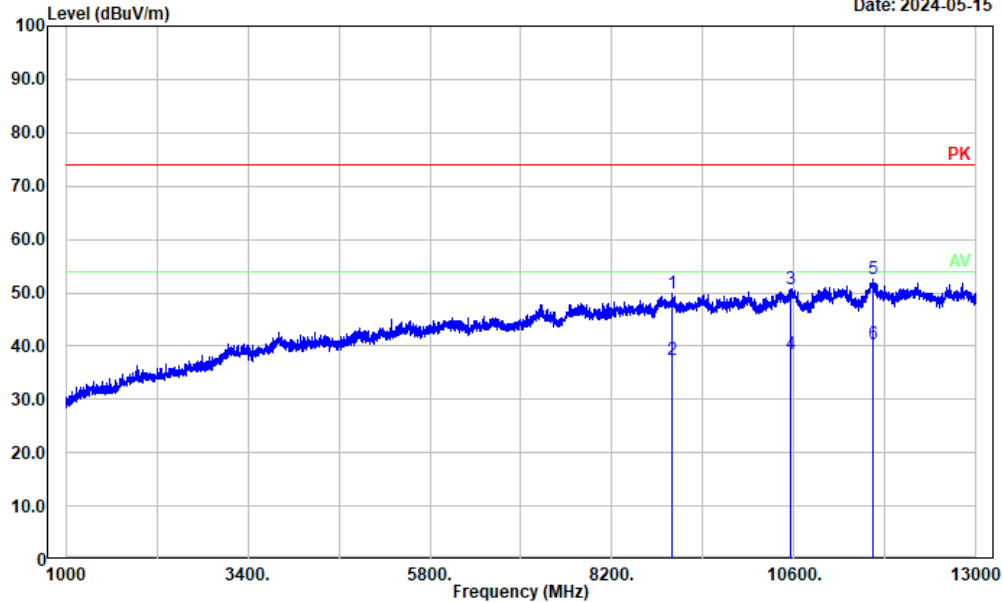
Project No.: 2403T75628E-RF
Tester: Mack Huang
Polarization: horizontal
Note: Operating



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	8912.800	36.48	13.41	49.89	74.00	24.11	Peak
2	8912.800	23.78	13.41	37.19	54.00	16.81	Average
3	10408.000	36.80	13.66	50.46	74.00	23.54	Peak
4	10408.000	24.96	13.66	38.62	54.00	15.38	Average
5	11608.000	36.63	15.96	52.59	74.00	21.41	Peak
6	11608.000	24.14	15.96	40.10	54.00	13.90	Average

Project No.: 2403T75628E-RF
Tester: Mack Huang
Polarization: vertical
Note: Operating

Date: 2024-05-15



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	8996.800	36.74	13.21	49.95	74.00	24.05	Peak
2	8996.800	24.25	13.21	37.46	54.00	16.54	Average
3	10554.400	36.30	14.50	50.80	74.00	23.20	Peak
4	10554.400	24.07	14.50	38.57	54.00	15.43	Average
5	11644.000	36.90	15.60	52.50	74.00	21.50	Peak
6	11644.000	24.76	15.60	40.36	54.00	13.64	Average

5. EUT PHOTOGRAPHS

Please refer to the attachment 2403T75628E-EXP EUT EXTERNAL PHOTOGRAPHS and 2403T75628E-INP EUT INTERNAL PHOTOGRAPHS.

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403T75628E-00-TSP TEST SETUP PHOTOGRAPHS.

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