

TEST REPORT

Applicant: 8devices

FCC: Antakalnio 17 - 6 Vilnius Lithuania

Address: IC: Antakalnio g. 17-6 Vilnius Vilnius County LT-10312
Lithuania

Product Name: Wireless Access Board

Model: KIT-100-02-4-CC

FCC ID: Z9WMAN

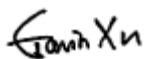
FCC PART 15B

Standard(s): ICES-003, ISSUE 7, OCTOBER 2020
ANSI C63.4-2014

Report Number: 2402U80231E-RF-00CA1

Report Date: 2024/8/29

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



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Title: RF Engineer



Approved By: Ivan Cao

Title: EMC Manager

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402U80231E-RF-00CA1	Original Report	2024/8/29

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	Wireless Access Board
EUT Model:	KIT-100-02-4-CC
Highest Operation Frequency:	5825MHz
Rated Input Voltage:	DC 3.3V from Host
Serial Number:	2MQ4-2
EUT Received Date:	2024/6/8
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.3 Equipment Modifications

No modifications are made to the EUT during all test items.

2. DESCRIPTION OF TEST CONFIGURATION

2.1 Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user). The following summary table is showing all test modes to demonstrate in compliance with the standard:

Test Items	Test Modes
Radiated Emission :	Test Mode : Working
AC Line Conducted Emission:	Test Mode : Working

2.2 EUT Exercise Software

No EUT software is used for testing.

2.3 Support Equipment List and Details

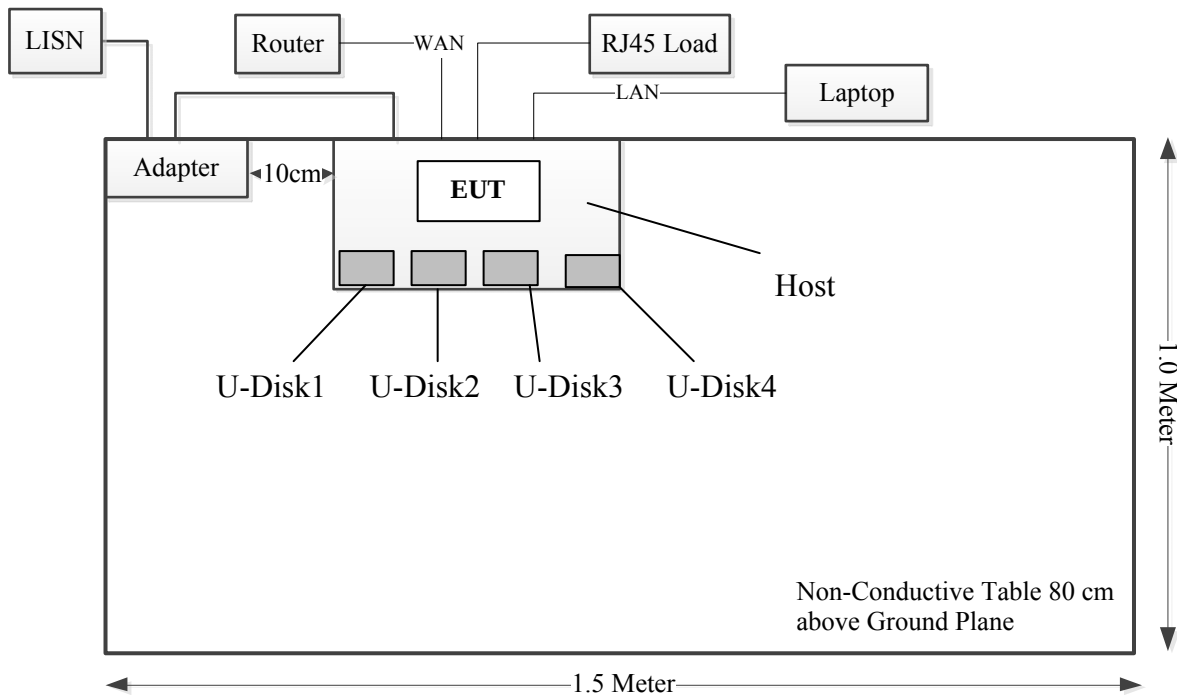
Manufacturer	Description	Model	Serial Number
ULLpower	Adapter	SAW30-240-1000	SAW30-240-1000
Kingston	U-Disk1	32G	EMZBUD21103001
SANDisk	U-Disk2	16G	BL201026115 B
SANDisk	U-Disk3	16G	BL201026331
SANDisk	U-Disk4	16G	BL201111386N
Lenovo	Laptop	G510	CB30920865
ZIONCOM	Router	MB-R210-00	EMZBWR21103002
Bacl	RJ45 Load	RJ45X8	F-EM-PHRJ45X8002
8devices	Host	KIT_100	2MQ4-4

2.4 Support Cable List and Details

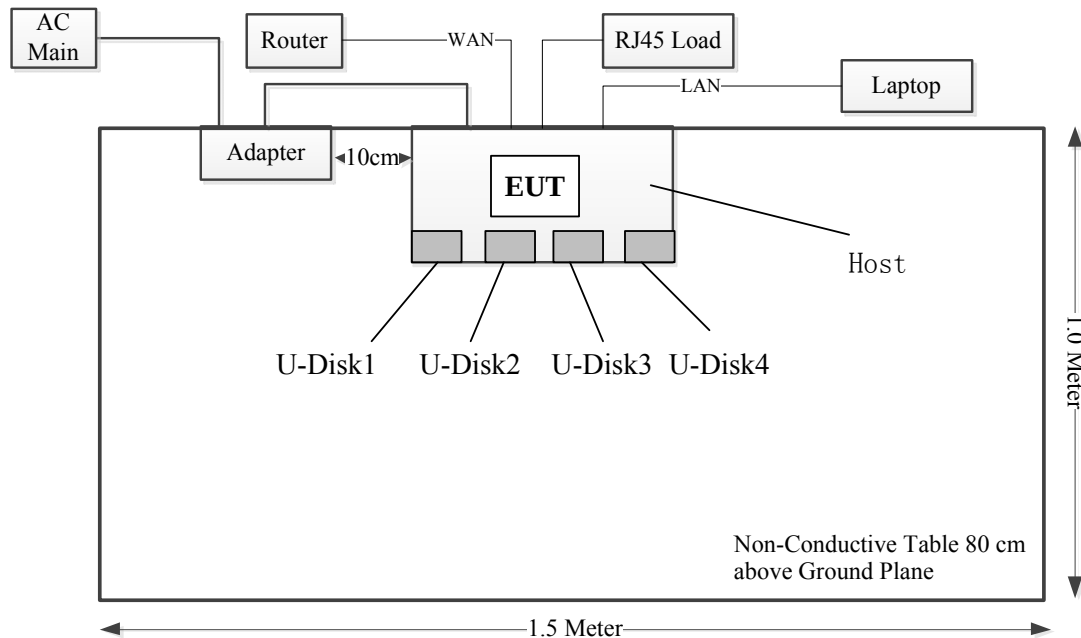
Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
DC Cable	No	No	1	Adapter	Host
RJ45 Cable	No	No	10	Router	Host
RJ45 Cable	No	No	10	Laptop	Host
RJ45 Cable	No	No	10	RJ45 Load	Host

2.5 Block Diagram of Test Setup

AC Line Conducted Emission:



Radiated Emission:



2.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

2.7 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	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Temperature	±1℃
Humidity	±5%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

3. SUMMARY OF TEST RESULTS

Standard Clause	Description of Test	Test Result
FCC§15.107 ICES-003§3.2.1	Conducted emissions	Compliant
FCC§15.109 ICES-003§3.2.2	Radiated emissions	Compliant

Description of change:

The device once certified, please refer to report No.: CR22010029-00C[▲], issued by China Certification ICT Co., Ltd (Dongguan), which was provided by the manufacturer[▲]. Differences between the previous device and the current one are stated and guaranteed by the manufacturer, as following:

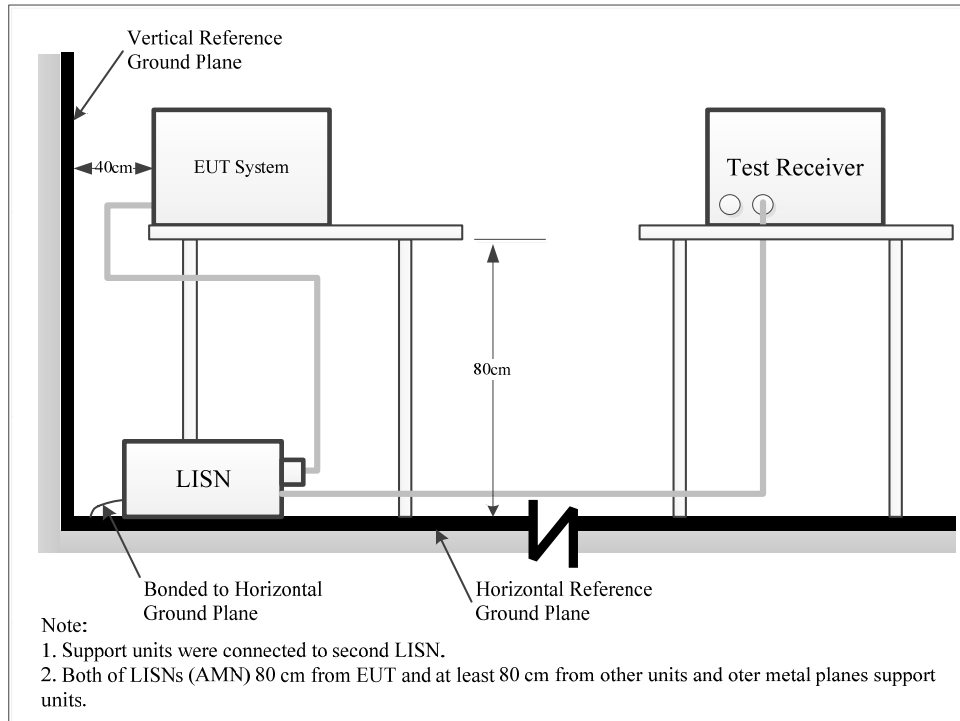
1. Changed the model name to **KIT-100-02-4-CC**.
2. Changed the product name to **Wireless Access Board**.
3. Change the memory chipset.
4. Software open 5250-5350MHz and 5470-5725MHz, meanwhile open Master mechanism, and the power is constant.
5. Change Whip antenna to PCB antenna.
6. Delete Chip Antenna.
7. Change the RF Chip model to QCN5152 (RF characteristics don't affect).

The Bay Area Compliance Laboratories Corp. (Dongguan) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 EUT Setup



The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B and Innovation, Science and Economic Development Canada ICES-003 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.

4.1.2 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

4.1.3 Test Procedure

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.

4.1.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result (QuasiPeak or Average) = Meter Reading + Corr.

Note:

Corr. = Cable loss + Factor of coupling device

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Result

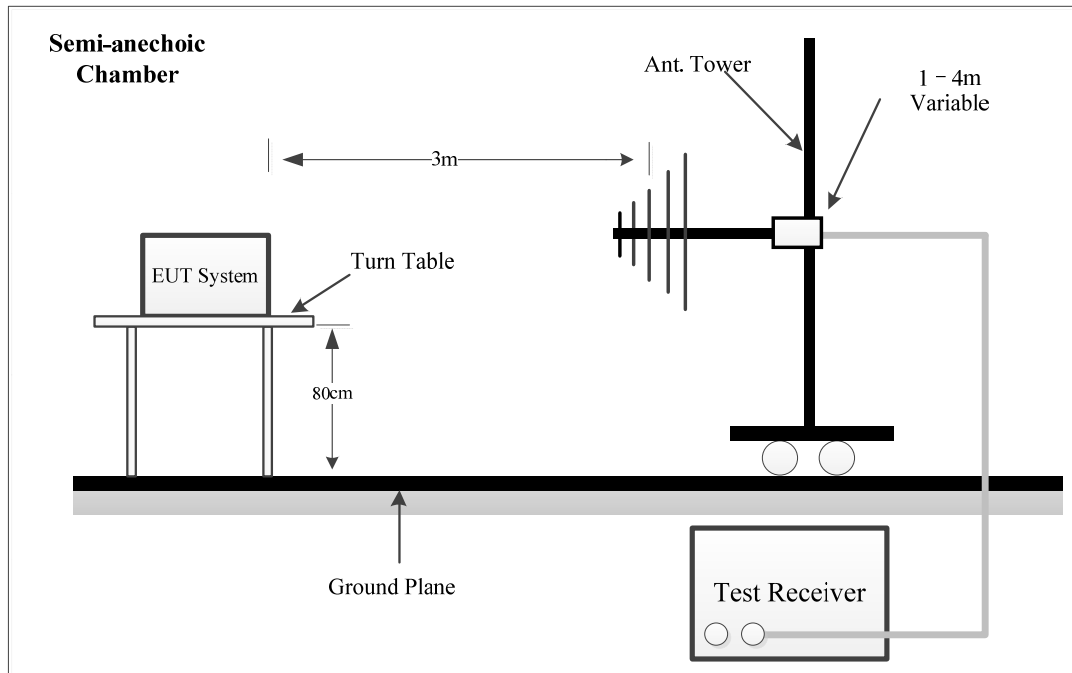
4.1.5 Test Result

Please refer to section 5.1.

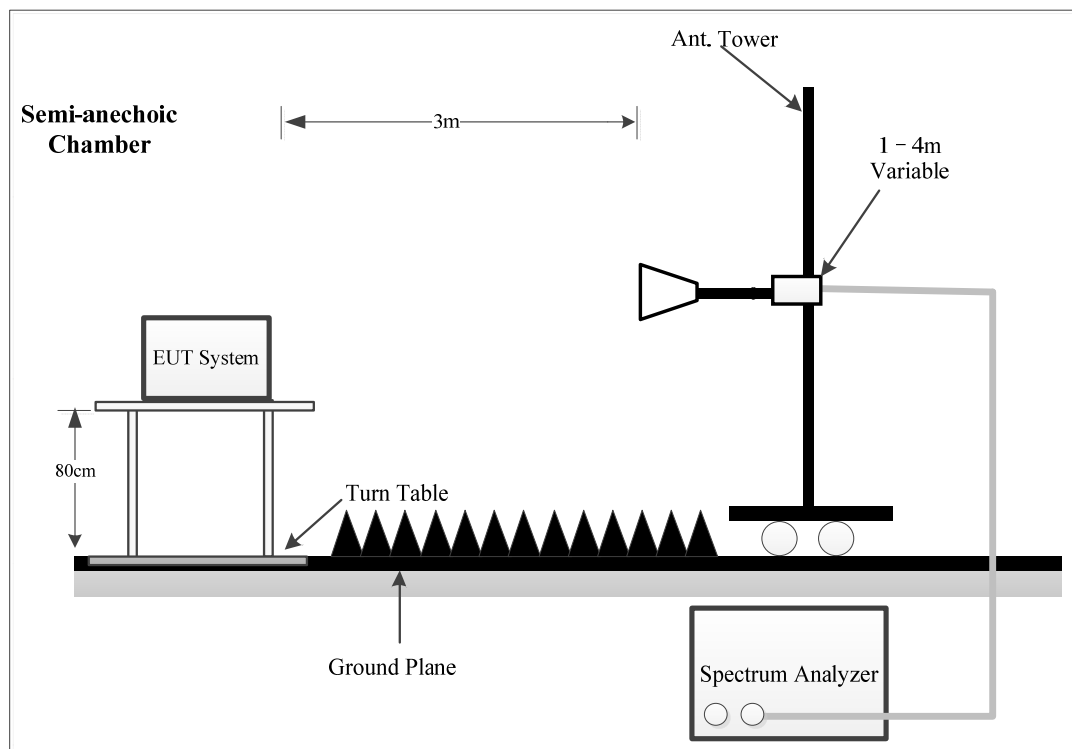
4.2 Radiation Emissions

4.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests below 1GHz were performed at the 3 meters distance, above 1GHz were performed at the 3 meters Chamber B, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15B and ICES-003 Class B limits.

4.2.2 EMI Test Receiver Setup

The system was investigated from 30 MHz to 30 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
30MHz – 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	3 MHz	/	AVG

4.2.3 Test Procedure

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.

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

4.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Meter Reading+ Corrected

Note:

Corrected = Antenna Factor + Cable Loss - Amplifier Gain

or

Corrected = Antenna Factor + Cable Loss + Insertion loss of attenuator - Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result}$$

5. TEST DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	2MQ4-2	Test Date:	2024/6/24
Test Site:	CE	Test Mode:	Working
Tester:	Wright Lai	Test Result:	Pass

Environmental Conditions:

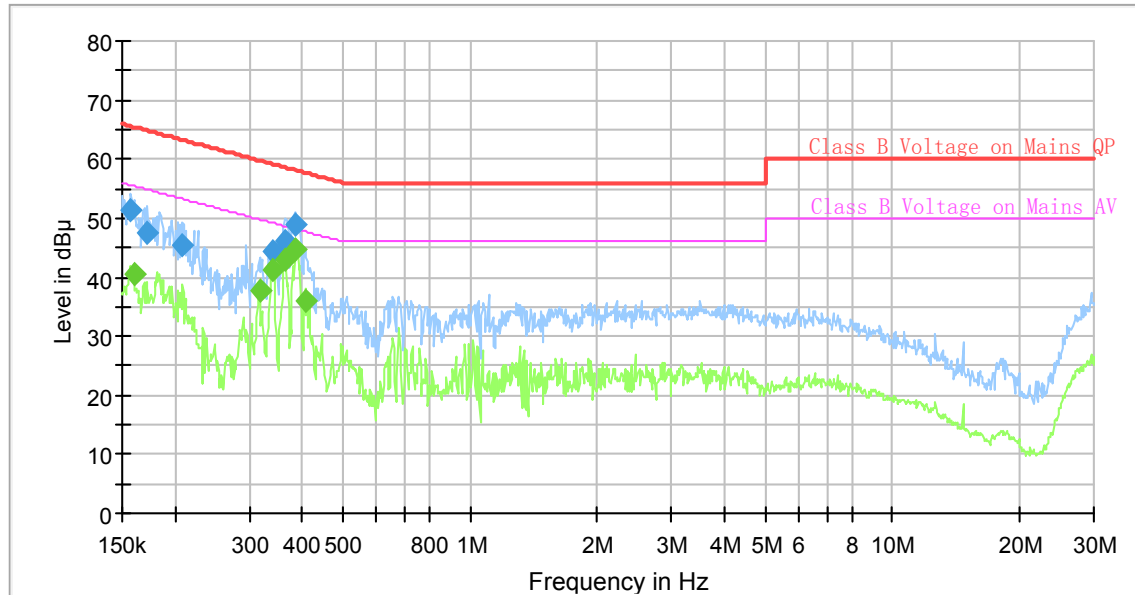
Temperature: (°C)	25.2	Relative Humidity: (%)	62	ATM Pressure: (kPa)	100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2023/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2023/9/7	2024/9/6
R&S	EMI Test Receiver	ESCI	100035	2023/8/18	2024/8/17
R&S	Test Software	EMC32	V9.10.00	N/A	N/A

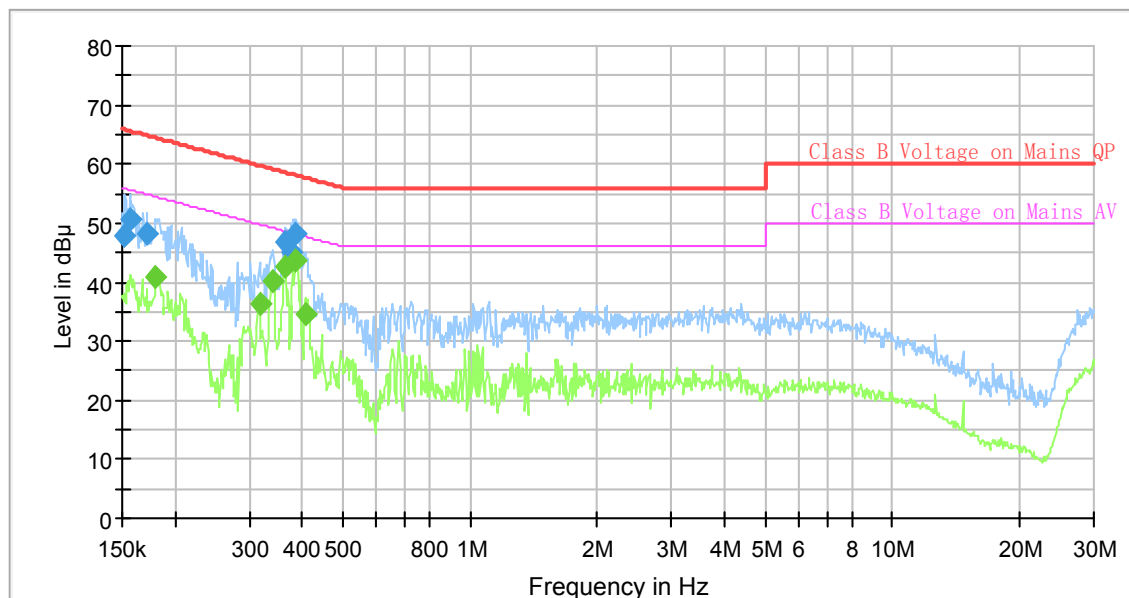
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No: 2402U80231E-RF-A1
Test Engineer: Wright Lai
Test Date: 2024-6-24
Port: L
Test Mode: Working
Power Source: AC 120V/60Hz



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.157671	51.32	---	65.59	14.27	9.000	L1	10.8
0.160048	---	40.60	55.46	14.86	9.000	L1	10.8
0.172481	47.65	---	64.84	17.19	9.000	L1	10.8
0.208474	45.32	---	63.27	17.95	9.000	L1	10.8
0.316957	---	37.81	49.79	11.98	9.000	L1	10.8
0.339880	44.36	---	59.21	14.85	9.000	L1	10.8
0.339880	---	41.18	49.21	8.03	9.000	L1	10.8
0.364460	45.97	---	58.63	12.66	9.000	L1	10.8
0.364460	---	42.81	48.63	5.82	9.000	L1	10.8
0.385014	48.75	---	58.17	9.42	9.000	L1	10.8
0.386939	---	44.84	48.13	3.29	9.000	L1	10.8
0.406728	---	36.07	47.71	11.64	9.000	L1	10.8

Project No: 2402U80231E-RF-A1
Test Engineer: Wright Lai
Test Date: 2024-6-24
Port: N
Test Mode: Working
Power Source: AC 120V/60Hz



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.152261	47.69	---	65.88	18.19	9.000	N	10.9
0.156106	50.66	---	65.67	15.01	9.000	N	10.9
0.171623	48.36	---	64.88	16.52	9.000	N	10.9
0.180400	---	40.77	54.47	13.70	9.000	N	10.9
0.316957	---	36.30	49.79	13.49	9.000	N	10.8
0.341579	---	40.18	49.16	8.98	9.000	N	10.8
0.364460	---	42.77	48.63	5.86	9.000	N	10.8
0.366283	46.71	---	58.58	11.87	9.000	N	10.8
0.375532	45.00	---	58.38	13.38	9.000	N	10.8
0.386939	---	43.68	48.13	4.45	9.000	N	10.8
0.386939	48.30	---	58.13	9.83	9.000	N	10.8
0.406728	---	34.65	47.71	13.06	9.000	N	10.8

5.2 Radiation Emissions

Serial Number:	2MQ4-2	Test Date:	2024/6/16~2024/6/18
Test Site:	Chamber10m, Chamber B	Test Mode:	Working
Tester:	Leesin Xiang, Nat Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.8-25.9	Relative Humidity: (%)	54-61	ATM Pressure: (kPa)	100-100.5
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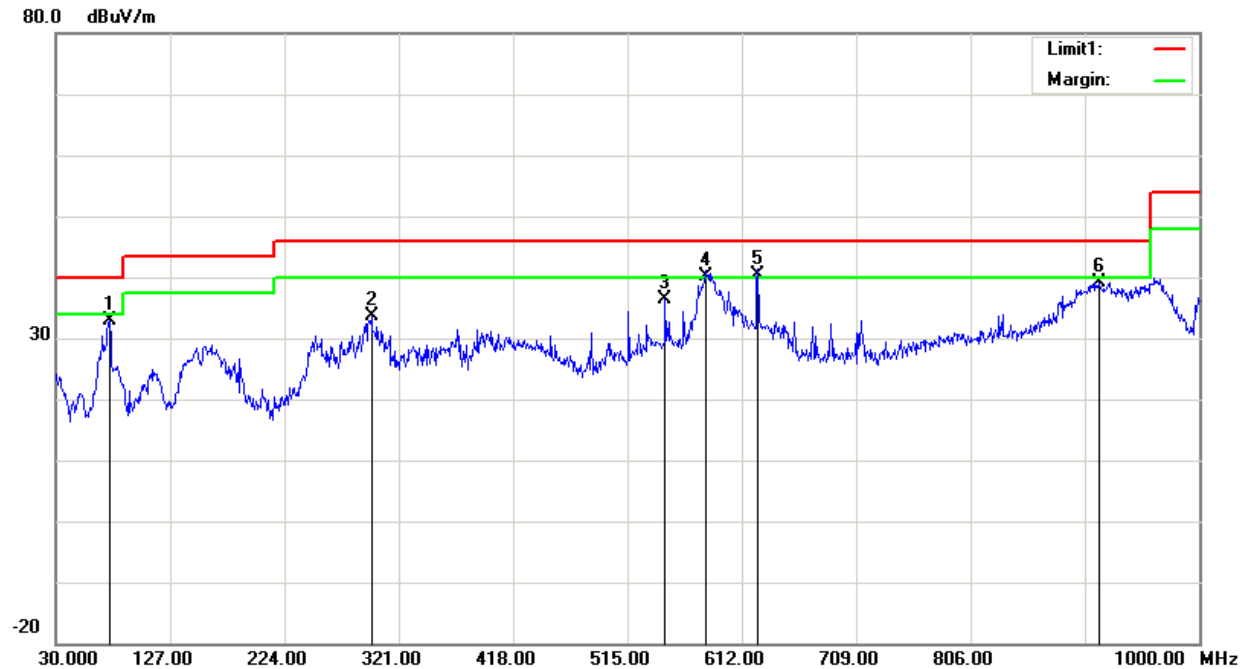
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2023/8/1	2024/7/31
Sonoma	Amplifier	310N	185914	2023/8/1	2024/7/31
R&S	EMI Test Receiver	ESCI	100224	2023/8/18	2024/8/17
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2023/11/17	2024/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/15
AH	Preamplifier	PAM-1840VH	191	2023/9/7	2024/9/6
R&S	Spectrum Analyzer	FSV40	101944	2023/10/18	2024/10/17
Audix	Test Software	E3	191218 V9	N/A	N/A
E-Microwave	Band Rejection Filter	OBSF-2400-2483.5-S	OE01601525	2024/2/21	2025/2/20
Sinoscite	Band Rejection Filter	BSF5150-5850MN	0899003	2024/2/21	2025/2/20
Mini-Circuits	High Pass Filter	VHF-6010+	31118	2023/12/1	2024/11/30

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

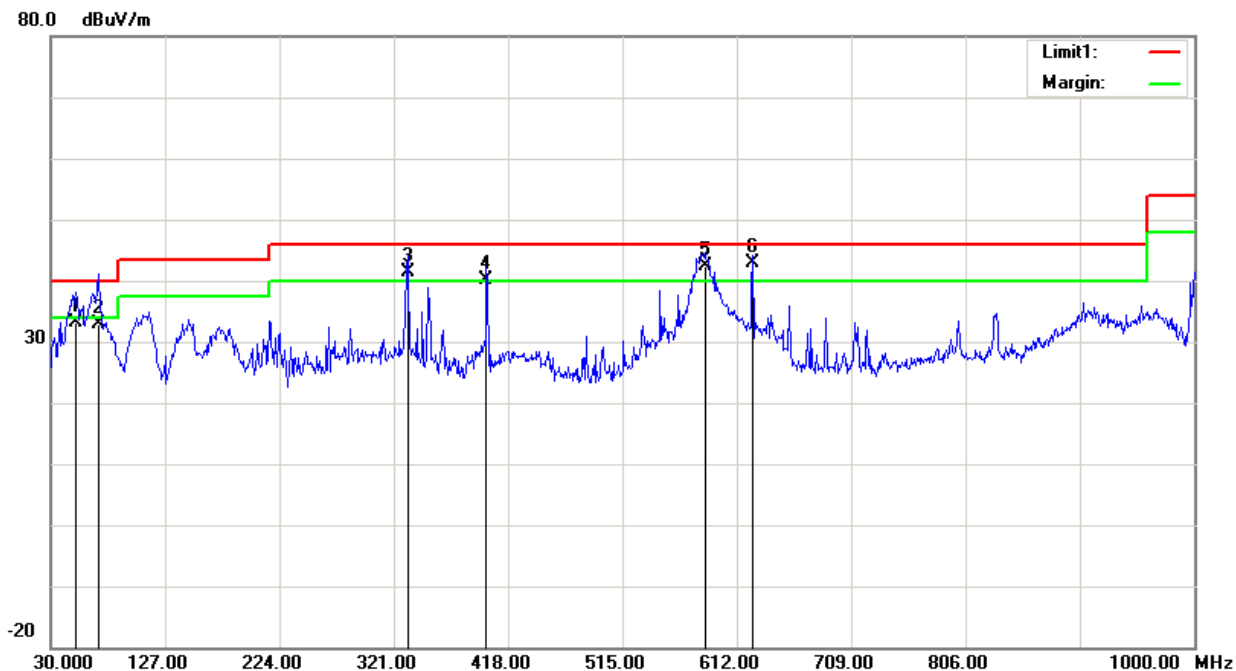
1) 30MHz-1GHz:

Project No: 2402U80231E-RF-A1
Test Engineer: Leesin Xiang
Test Date: 2024-6-16
Polarization: Horizontal
Test Mode: Working
Power Source: AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	75.5900	49.17	peak	-16.20	32.97	40.00	7.03
2	297.7200	43.09	peak	-9.58	33.51	46.00	12.49
3	547.0100	40.04	peak	-3.58	36.46	46.00	9.54
4	581.9300	43.33	QP	-3.13	40.20	46.00	5.80
5	625.5800	42.74	QP	-2.24	40.50	46.00	5.50
6	914.6400	37.64	peak	1.58	39.22	46.00	6.78

Project No: 2402U80231E-RF-A1
Test Engineer: Leesin Xiang
Test Date: 2024-6-16
Polarization: Vertical
Test Mode: Working
Power Source: AC 120V/60Hz

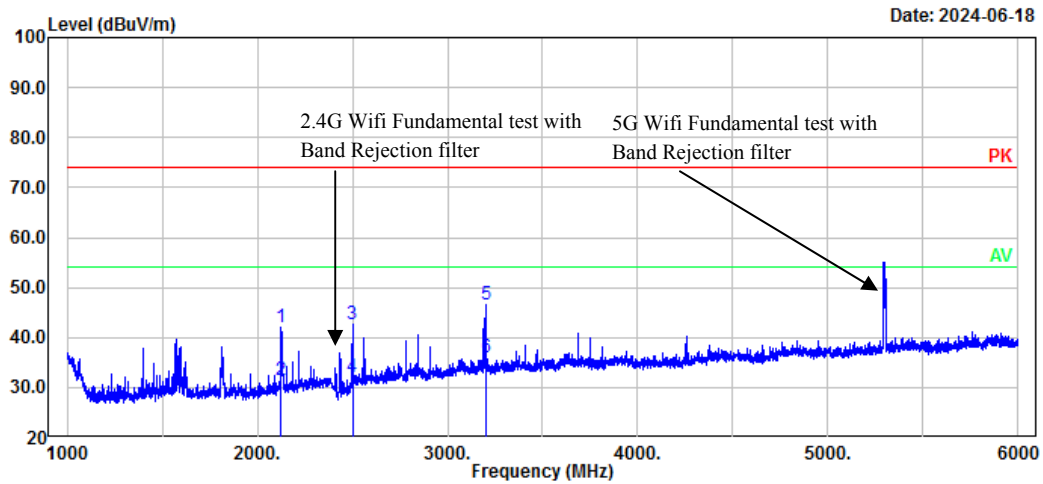


No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBuV)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)
1	51.3400	49.65	QP	-16.45	33.20	40.00	6.80
2	70.7400	49.17	QP	-16.27	32.90	40.00	7.10
3	332.6400	50.13	QP	-8.83	41.30	46.00	4.70
4	399.5700	47.09	QP	-6.99	40.10	46.00	5.90
5	584.8400	45.34	QP	-3.04	42.30	46.00	3.70
6	625.5800	45.24	QP	-2.24	43.00	46.00	3.00

2) 1GHz-30GHz:

Project No.: 2402U80231E-RF-A1
Polarization: Horizontal
Test Mode: Working
Note:

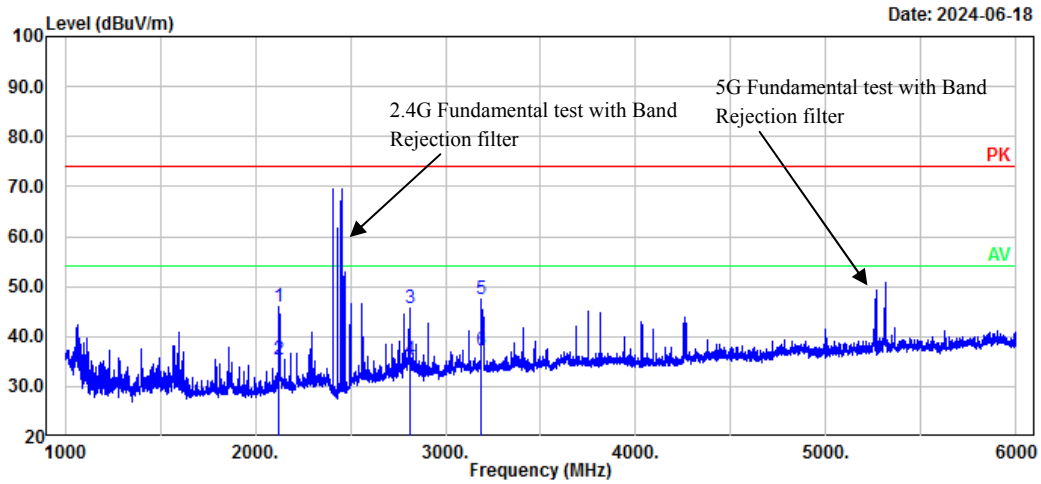
Serial No.: 2MQ4-2
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	2124.00	57.67	-15.72	41.95	74.00	32.05	Peak
2	2124.00	47.09	-15.72	31.37	54.00	22.63	Average
3	2500.00	56.84	-14.23	42.61	74.00	31.39	Peak
4	2500.00	46.34	-14.23	32.11	54.00	21.89	Average
5	3199.00	59.15	-12.55	46.60	74.00	27.40	Peak
6	3199.00	48.44	-12.55	35.89	54.00	18.11	Average

Project No.: 2402U80231E-RF-A1
Polarization: Vertical
Test Mode: Working
Note:

Serial No.: 2MQ4-2
Tester: Nat Zhou

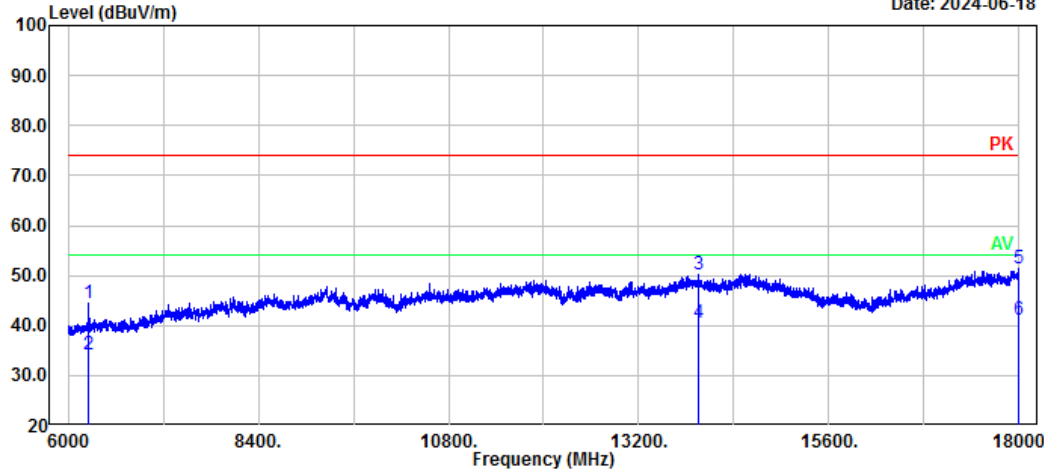


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2125.00	61.71	-15.72	45.99	74.00	28.01	Peak
2	2125.00	51.15	-15.72	35.43	54.00	18.57	Average
3	2810.00	59.03	-13.29	45.74	74.00	28.26	Peak
4	2810.00	48.68	-13.29	35.39	54.00	18.61	Average
5	3186.00	59.88	-12.54	47.34	74.00	26.66	Peak
6	3186.00	49.65	-12.54	37.11	54.00	16.89	Average

Project No.: 2402U80231E-RF-A1
Polarization: Horizontal
Test Mode: Working
Note:

Serial No.: 2MQ4-2
Tester: Nat Zhou

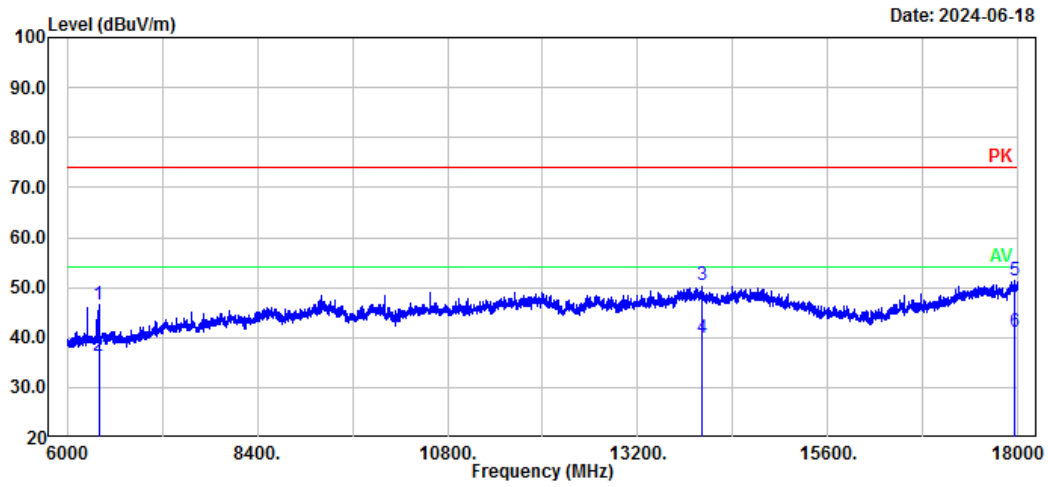
Date: 2024-06-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	6249.60	52.21	-7.78	44.43	74.00	29.57	Peak
2	6249.60	41.90	-7.78	34.12	54.00	19.88	Average
3	13958.40	46.84	3.47	50.31	74.00	23.69	Peak
4	13958.40	37.03	3.47	40.50	54.00	13.50	Average
5	17990.40	43.30	8.06	51.36	74.00	22.64	Peak
6	17990.40	33.04	8.06	41.10	54.00	12.90	Average

Project No.: 2402U80231E-RF-A1
Polarization: Vertical
Test Mode: Working
Note:

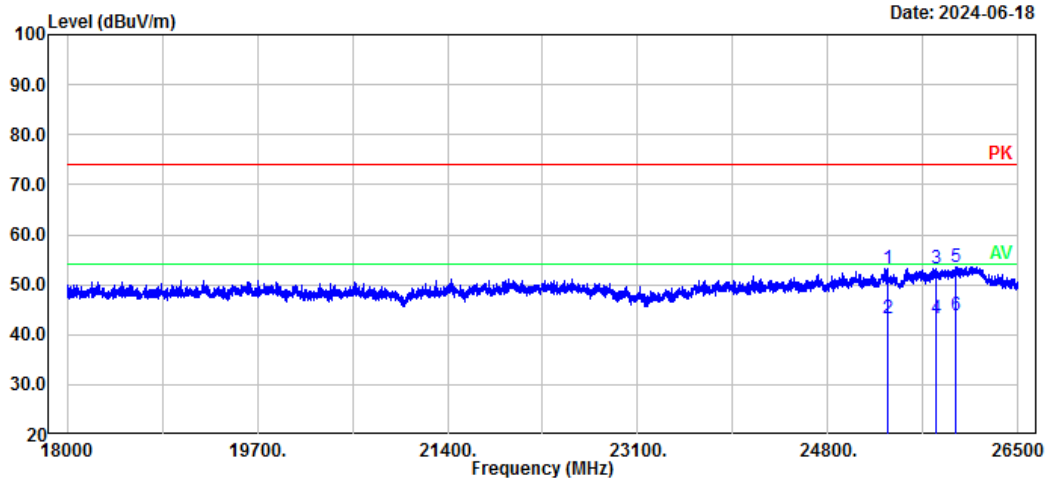
Serial No.: 2MQ4-2
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	6398.40	54.11	-7.53	46.58	74.00	27.42	Peak
2	6398.40	43.91	-7.53	36.38	54.00	17.62	Average
3	14013.60	46.81	3.53	50.34	74.00	23.66	Peak
4	14013.60	36.54	3.53	40.07	54.00	13.93	Average
5	17959.20	43.66	7.84	51.50	74.00	22.50	Peak
6	17959.20	33.40	7.84	41.24	54.00	12.76	Average

Project No.: 2402U80231E-RF-A1
Polarization: Horizontal
Test Mode: Working
Note:

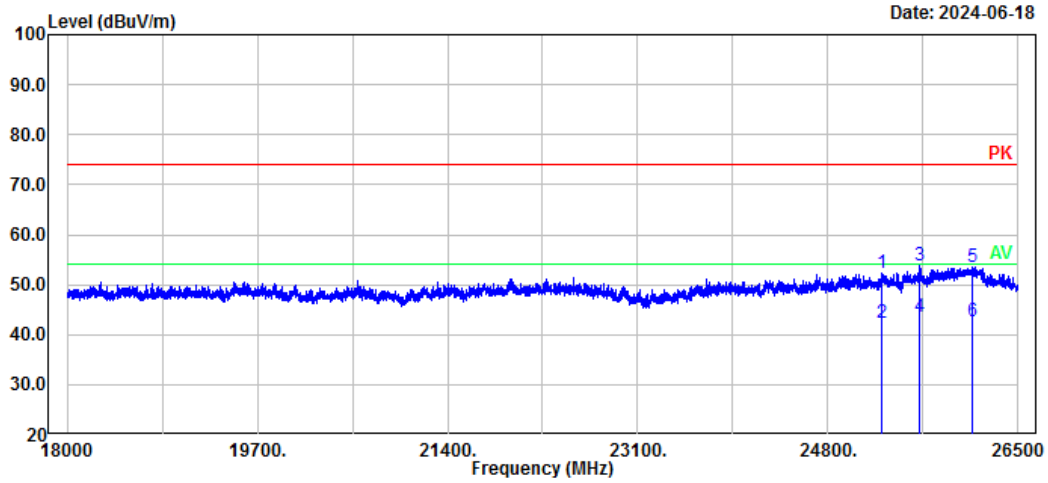
Serial No.: 2MQ4-2
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	25333.80	43.34	9.82	53.16	74.00	20.84	Peak
2	25333.80	33.39	9.82	43.21	54.00	10.79	Average
3	25760.50	42.91	10.41	53.32	74.00	20.68	Peak
4	25760.50	32.69	10.41	43.10	54.00	10.90	Average
5	25944.10	42.82	10.76	53.58	74.00	20.42	Peak
6	25944.10	33.00	10.76	43.76	54.00	10.24	Average

Project No.: 2402U80231E-RF-A1
Polarization: Vertical
Test Mode: Working
Note:

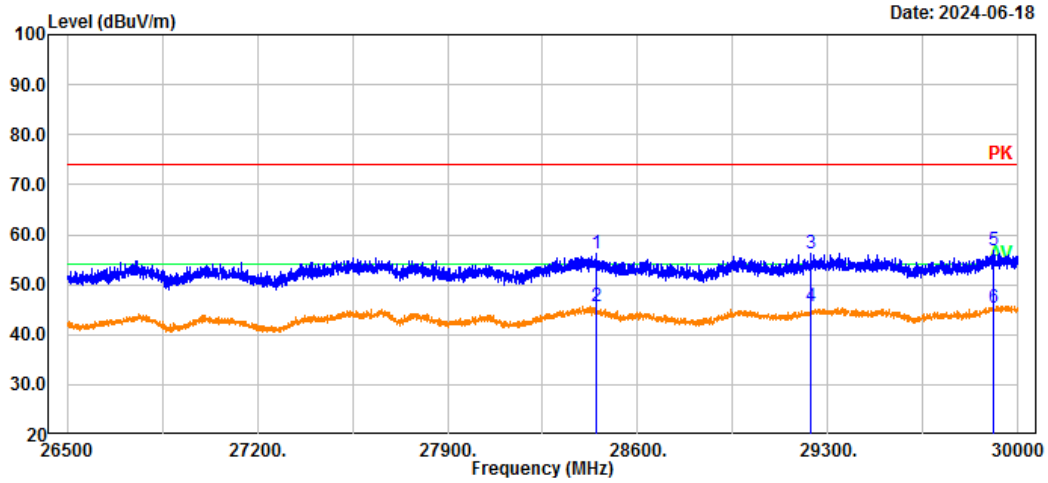
Serial No.: 2MQ4-2
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	25282.80	42.63	9.79	52.42	74.00	21.58	Peak
2	25282.80	32.56	9.79	42.35	54.00	11.65	Average
3	25617.70	43.79	10.14	53.93	74.00	20.07	Peak
4	25617.70	33.44	10.14	43.58	54.00	10.42	Average
5	26085.20	42.75	10.89	53.64	74.00	20.36	Peak
6	26085.20	31.62	10.89	42.51	54.00	11.49	Average

Project No.: 2402U80231E-RF-A1
Polarization: Horizontal
Test Mode: Working
Note:

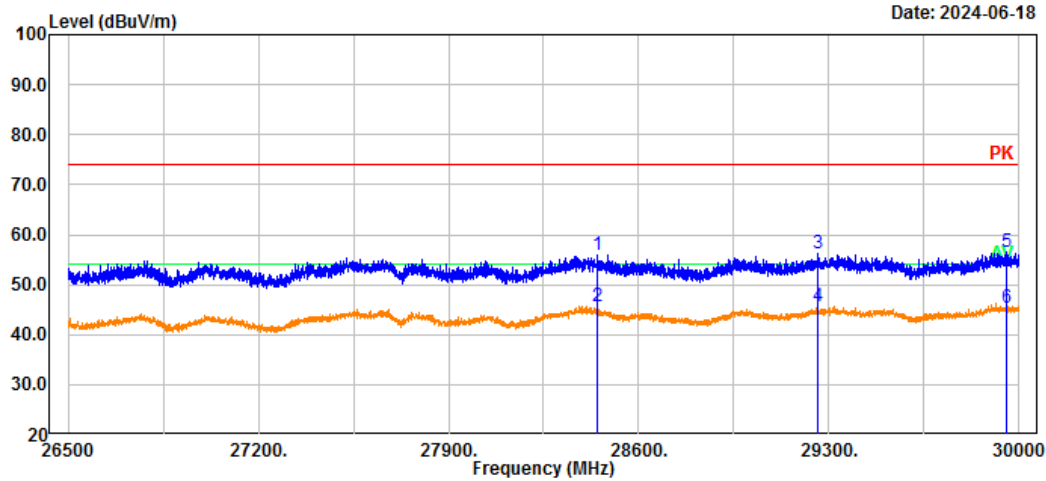
Serial No.: 2MQ4-2
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	28449.50	43.26	13.05	56.31	74.00	17.69	Peak
2	28449.50	32.52	13.05	45.57	54.00	8.43	Average
3	29239.10	43.70	12.61	56.31	74.00	17.69	Peak
4	29239.10	33.15	12.61	45.76	54.00	8.24	Average
5	29909.70	43.97	12.72	56.69	74.00	17.31	Peak
6	29909.70	32.63	12.72	45.35	54.00	8.65	Average

Project No.: 2402U80231E-RF-A1
Polarization: Vertical
Test Mode: Working
Note:

Serial No.: 2MQ4-2
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	28449.50	42.99	13.05	56.04	74.00	17.96	Peak
2	28449.50	32.47	13.05	45.52	54.00	8.48	Average
3	29259.40	43.72	12.64	56.36	74.00	17.64	Peak
4	29259.40	33.05	12.64	45.69	54.00	8.31	Average
5	29951.70	43.74	12.69	56.43	74.00	17.57	Peak
6	29951.70	32.72	12.69	45.41	54.00	8.59	Average

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402U80231E-RF-A1-EXP EUT EXTERNAL PHOTOGRAPHS and 2402U80231E-RF-A1-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402U80231E-RF-00CA1-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******