

Prüfbericht-Nr.: <i>Test report no.:</i>	CN255R3B 001	Auftrags-Nr.: <i>Order no.:</i>	168557266	<i>Seite 1 von 19</i> <i>Page 1 of 19</i>	
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-06-03		
Auftraggeber: <i>Client:</i>	DewertOkin Technology Group Co., Ltd. No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City, Zhejiang Province, China.				
Prüfgegenstand: <i>Test item:</i>	CONTROL BOX				
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	CB5820				
Auftrags-Inhalt: <i>Order content:</i>	Test Report				
Prüfgrundlage: <i>Test specification:</i>	CFR Title 47 FCC Part 15: Subpart C Section 15.249 RSS-210 Issue 11 June 2024 RSS-Gen Issue 5 February 2021				
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-06-25	Please refer to Photo Document			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004026789-001/005				
Prüfzeitraum: <i>Testing period:</i>	2025-06-27 - 2025-08-26				
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2025-08-28 Signed by: Jonathan Li		Ausstellungsdatum: <i>Issue date:</i>	2025-08-28 Signed by: Bell Hu	
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: 2AVJ8-CB5820 IC: 25804-CB5820 HVIN: V1.0				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Pass

5.1.3 20dB AND 99% BANDWIDTH

RESULT: Pass

5.1.4 BAND EDGE

RESULT: Pass

5.1.5 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

A2LA Certificate Number: 5162.01

FCC Accreditation Designation No.: CN1260

ISED wireless device testing laboratory: 25069

Shenzhen PSI Testing Co., Ltd.

1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

A2LA Certificate Number: 6975.01

AC Main Conduct emission test was performed on Shenzhen PSI Testing Co., Ltd.

Note: TÜV Rheinland (Shenzhen) Co., Ltd. subcontracts the test to Shenzhen PSI Testing Co., Ltd., the tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Signal Analyzer	R&S	FSV 40	101441	25.09.2025
Vector Signal Generator	R&S	SMBV100A	263301	25.09.2025
Signal Generator	R&S	SMB100A	115186	25.09.2025
OSP	R&S	OSP 150	101017	30.10.2025
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	30.10.2025
Power Sensor	R&S	NRP-Z81	105677	25.09.2025
High Low Temperature Test Chamber	KOWINTEST	TH-30FJX	KW-21040497	25.09.2025
Shielding Room	Albatross	SR1	APC17151-SR1	13.09.2027
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025

System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	13.09.2027

Shenzhen PSI Testing Co., Ltd.

Conducted Emission				
Description	Manufacturer	Model	Serial No.	Calibrated until (DD.MM.YYYY)
Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	2025.12.17
L.I.S.N.	Rohde&Schwarz	ENV 216	102282	2025.12.17
L.I.S.N.	RFT	NNB111	13835240	2025.12.17

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Prüfbericht - Nr.: CN255R3B 001
Test Report No.:Seite 8 von 19
Page 8 of 19**Table 2: Measurement Uncertainty**

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is a control box used in an actuator system, which supports 2.4GHz SRD wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Kind of Equipment:	CONTROL BOX
Type Designation:	CB5820
Operating Voltage:	DC 29V
Testing Voltage:	DC 29 V from adapter
Operating temperature:	-20~55°C
Technical Specification of 2.4GHz SRD	
Frequency Range	2403MHz to 2480 MHz
Type of Modulation	GFSK
Channel Number	78
Channel Separation	1 MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.23 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

3.3 Independent Operation Modes

The basic operation modes are:

A. 2.4GHz transmitting mode

1. Low channel
2. Middle channel
3. High channel

B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- FCC/IC Label and Location Info
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

Table 4: Test environments

Environment Parameter	Values During Tests		
	Temperature	Voltage (Battery operated)	Relative Humidity
NTNV	25°C±2°C	29 Vdc	Ambient

Table 5: Test channel and frequency of 2.4GHz

Mode	Test Channels (MHz)	Remark
Transmitting	L/M/H: 2403MHz, 2442MHz, 2480MHz	--

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	DewertOKIN Technology Group Co., Ltd.	DOT-Z-290018A	P25022AA3SEOR D044614	Input: 100~240V, 50/60Hz 2.5A Output: 29.0V, 1.8A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

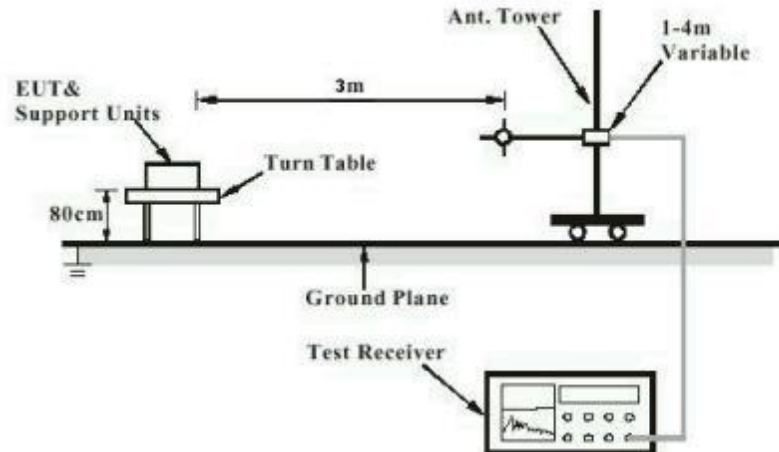


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



Diagram of Measurement Configuration for Mains Conduction Measurement

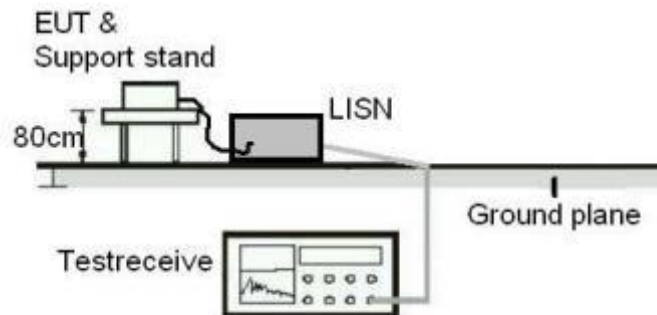
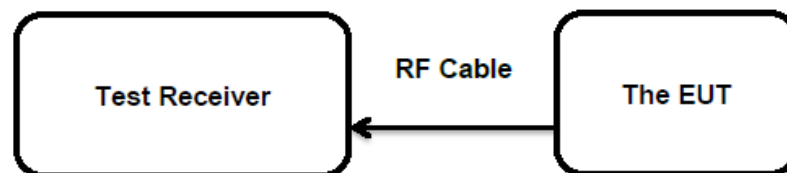


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Section 6.8

According to the manufacturer declared, the EUT has a PCB antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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*Test Report No.:*Seite 15 von 19
Page 15 of 19**5.1.2 Field strength of fundamental and harmonics****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.249(a) (d) (e) RSS-210 Section B.10
Basic standard	: ANSI C63.10: 2013
Limits	: FCC Part 15.249(a) (d) (e) & 15.209(a) RSS-210 Section B.10 (a) & (b) RSS-Gen Section 8.9
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-06-27 - 2025-08-26
Input voltage	: DC 29V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

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5.1.3 20dB and 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: RSS-Gen Section 6.7
Basic standard	: ANSI C63.10: 2013
Limits	: Within assigned band
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-06-27 - 2025-08-26
Input voltage	: DC 29V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.2 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 Band Edge

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.249(a) (d) (e) & 15.209 & 15.205
RSS-210 Section B.10 (a) & (b)
RSS-Gen Section 8.9 & 8.10

Basic standard : ANSI C63.10: 2013

Limits : FCC Part 15.249(a) (d) (e) & 15.209 & 15.205
RSS-Gen Table 5 & 7

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025-06-27 - 2025-08-26

Input voltage : DC 29V

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-06-27 - 2025-08-26
Input voltage	: DC 29V from adapter
Operation mode	: A
Earthing	: Not connected
Ambient temperature	: 24.3 °C
Relative humidity	: 52.8 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A: Test Results

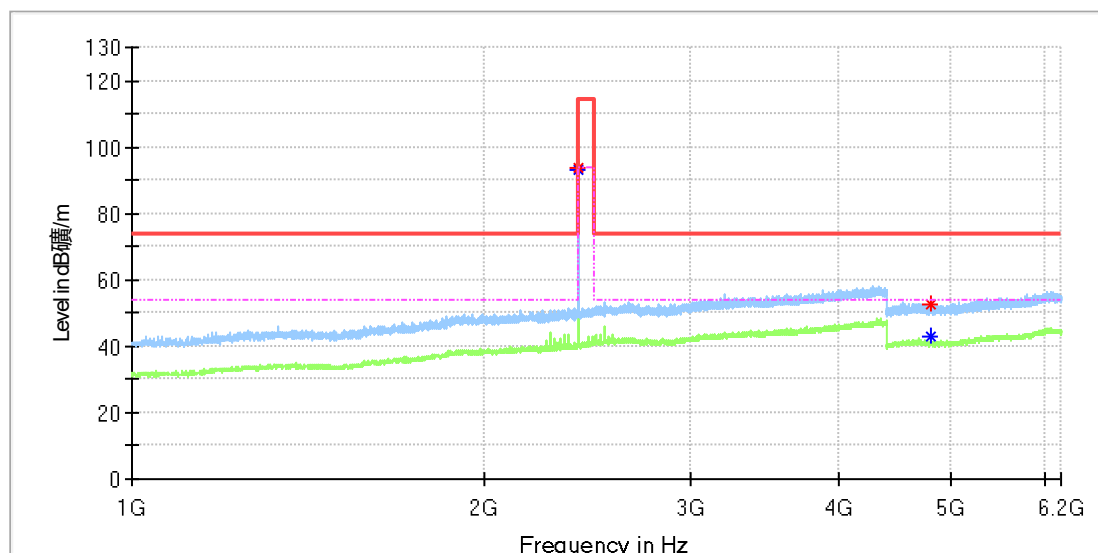
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Appendix A.1: Test Results of Field strength of fundamental and harmonics

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.500000	93.81	---	114.00	20.19	150.0	H	78.0	8.5
2403.000000	---	92.97	94.00	1.03	150.0	H	88.0	8.5
4805.500000	52.67	---	74.00	21.33	150.0	H	192.0	13.3
4805.500000	---	43.03	54.00	10.97	150.0	H	192.0	13.3

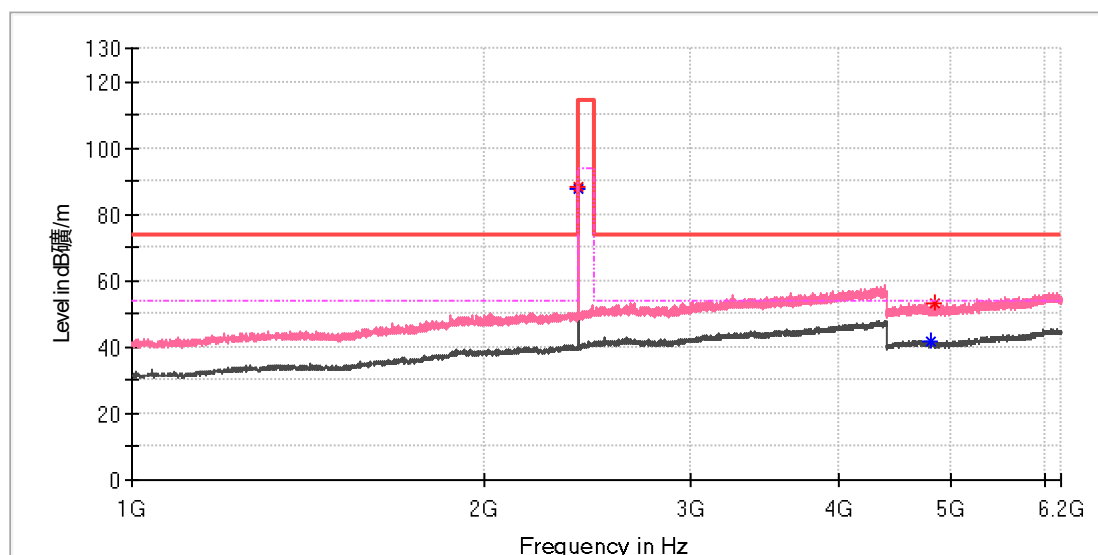
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
2402.500000	88.33	---	114.00	25.67	150.0	V	32.0	8.5
2403.000000	---	87.48	94.00	6.52	150.0	V	32.0	8.5
4809.000000	---	41.44	54.00	12.56	150.0	V	177.0	13.3
4836.000000	53.40	---	74.00	20.60	150.0	V	75.0	13.3

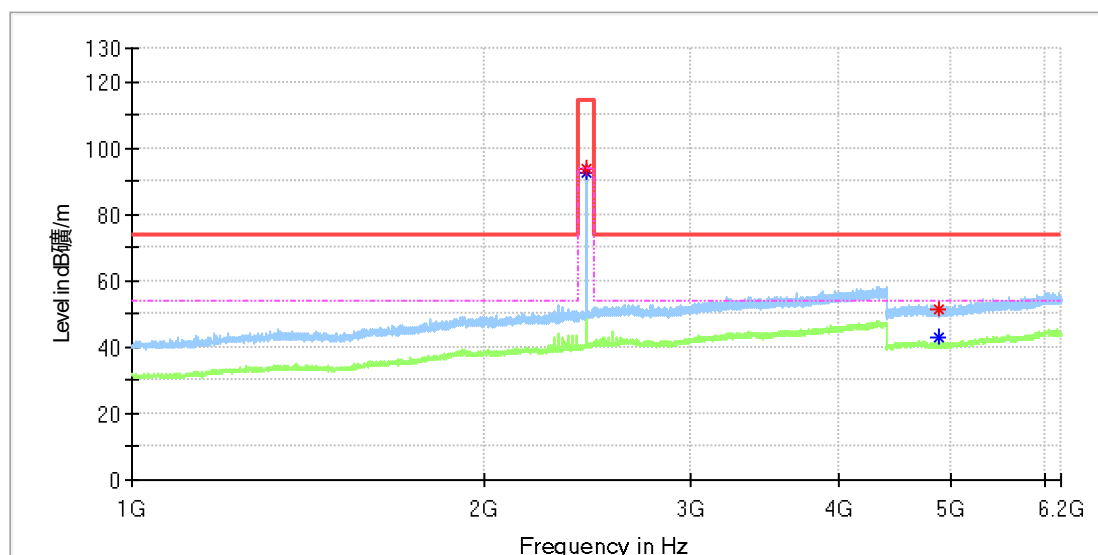
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2442.000000	93.86	---	114.00	20.14	150.0	H	81.0	8.9
2442.000000	---	92.81	94.00	1.19	150.0	H	81.0	8.9
4883.500000	51.60	---	74.00	22.40	150.0	H	200.0	13.3
4884.000000	---	42.71	54.00	11.29	150.0	H	219.0	13.3

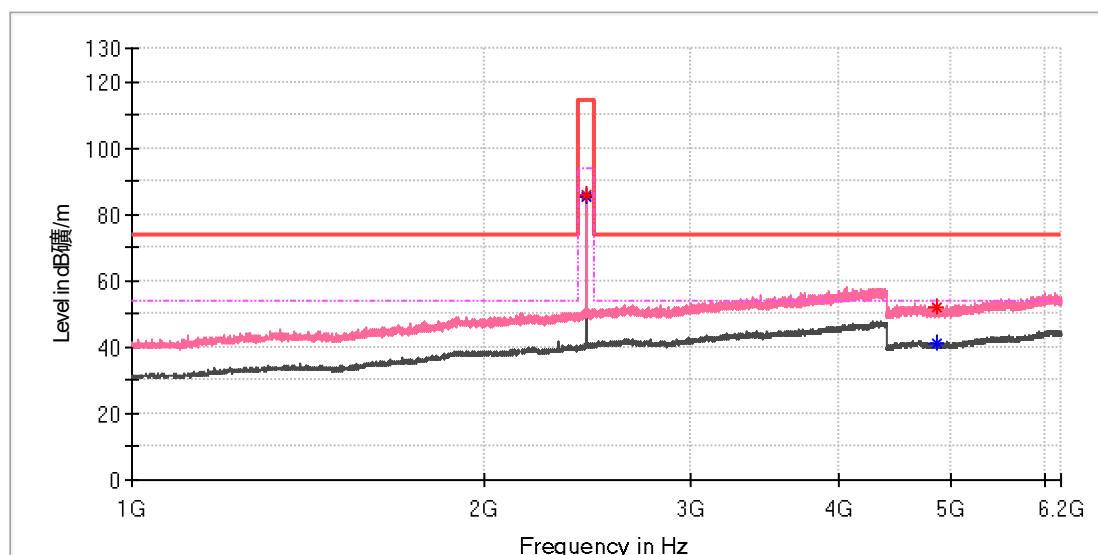
Final Result

[illegible]

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2442.000000	---	85.10	94.00	8.90	150.0	V	30.0	8.9
2442.000000	85.90	---	114.00	28.10	150.0	V	30.0	8.9
4863.500000	51.97	---	74.00	22.03	150.0	V	164.0	13.3
4863.500000	---	41.00	54.00	13.00	150.0	V	164.0	13.3

Final Result

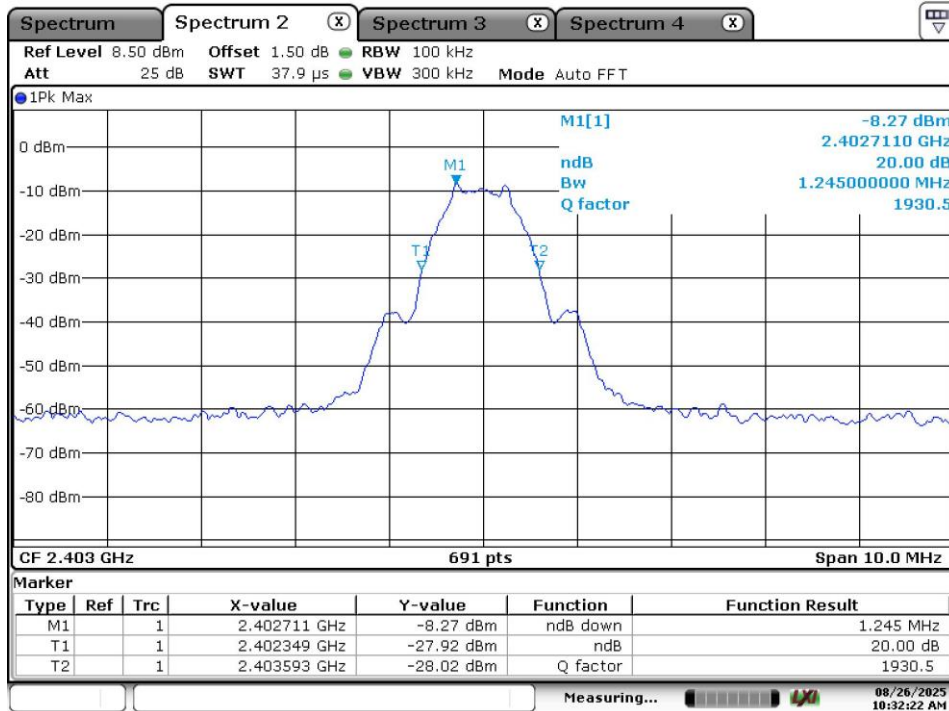
[illegible]

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
90.00	-68.70	-68.70	-68.70	31.30	100.00	V	0.00	0.00

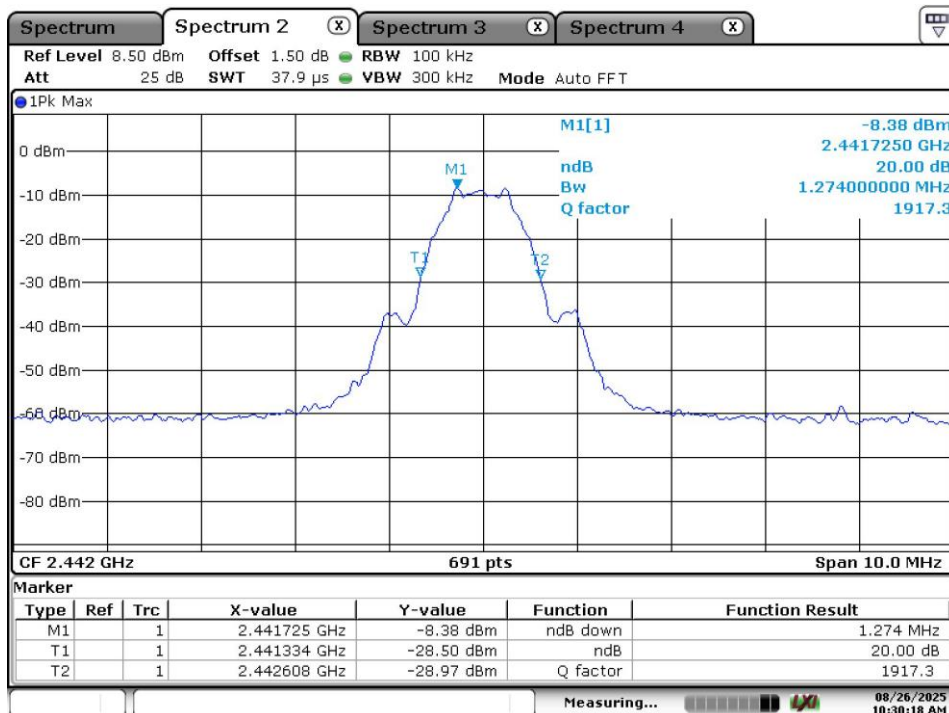
Appendix A.2: Test Plots of 20dB bandwidth

TestMode	Antenna	Frequency[MHz]	20dB bandwidth(MHz)	99% bandwidth(MHz)	Limit[MHz]	Verdict
Transmitting	Ant1	2403	1.245	1.071	---	---
Transmitting	Ant1	2442	1.274	1.100	---	---
Transmitting	Ant1	2480	1.245	1.100	---	---

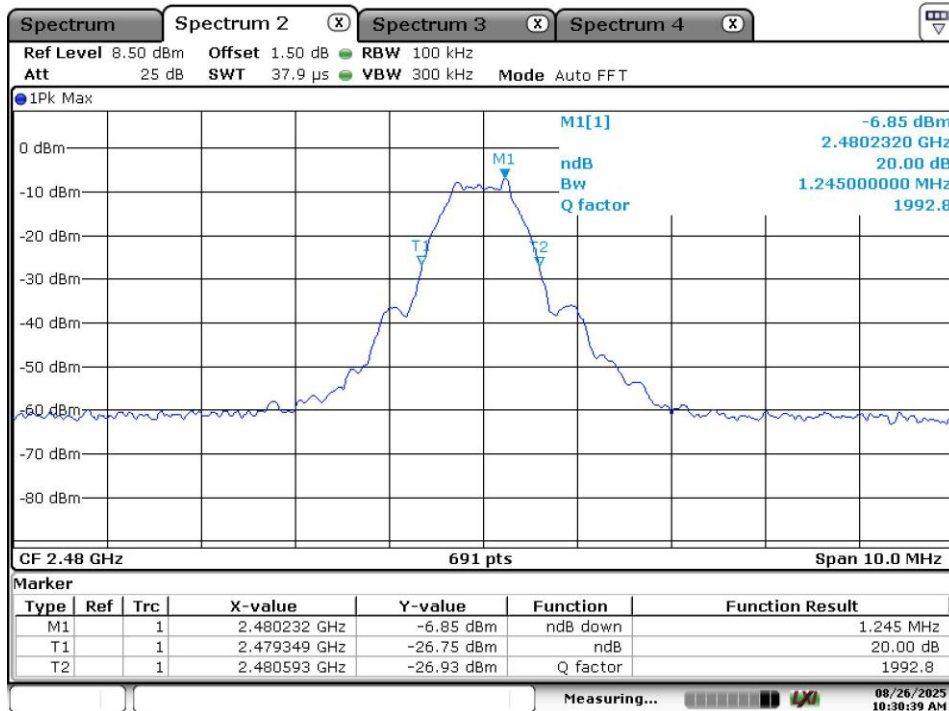
20dB bandwidth:



Date: 26.AUG.2025 10:32:22

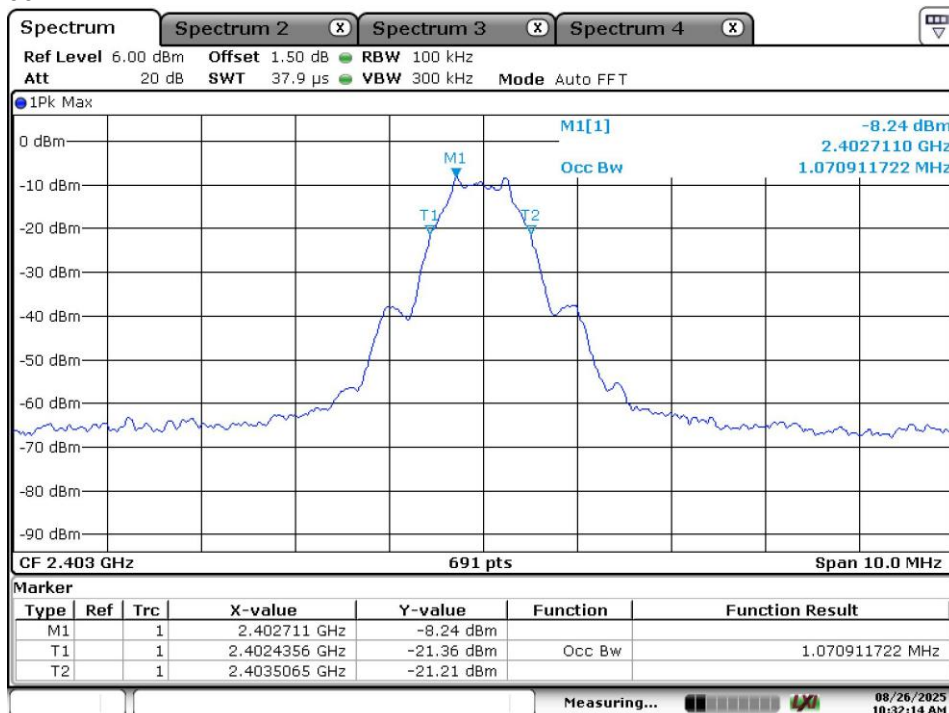


Date: 26.AUG.2025 10:30:17

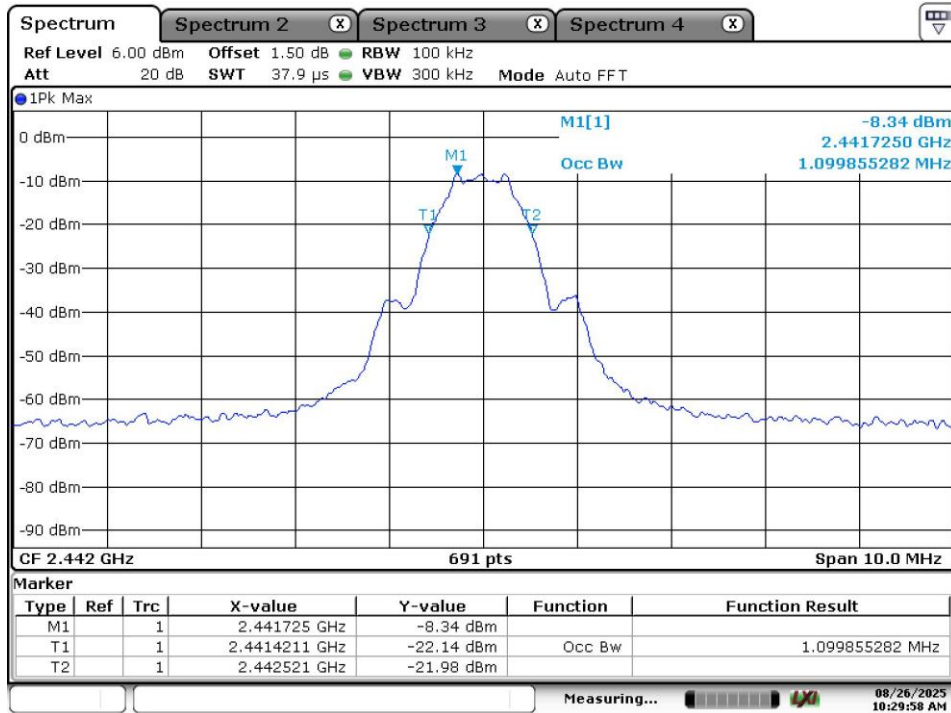


Date: 26.AUG.2025 10:30:39

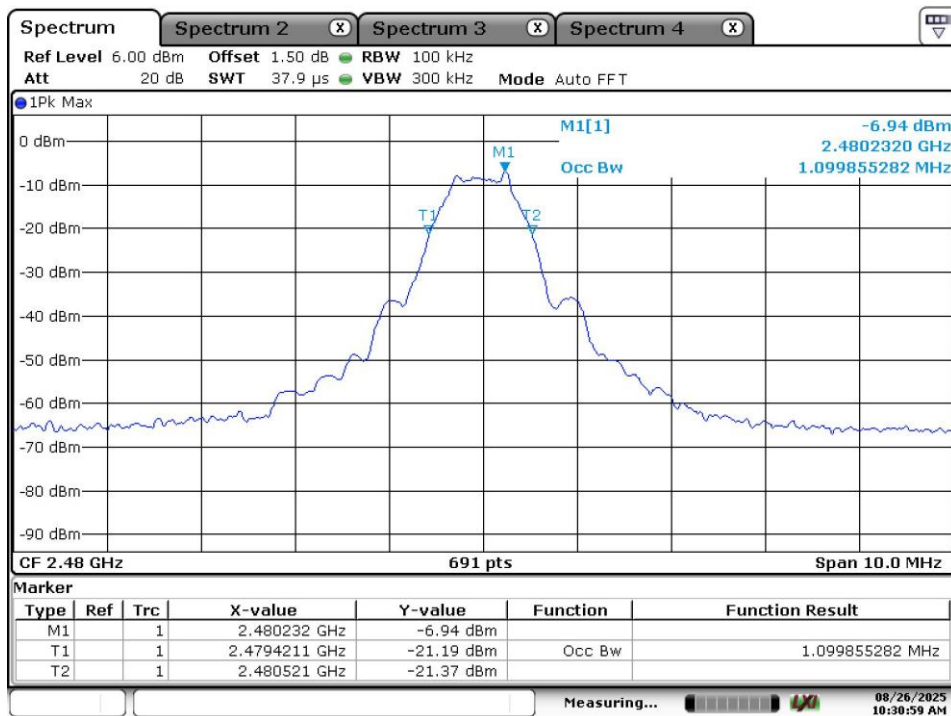
99% bandwidth:



Date: 26.AUG.2025 10:32:14



Date: 26.AUG.2025 10:29:58



Date: 26.AUG.2025 10:30:59

Appendix A.3: Test Results of Radiated Spurious Emissions

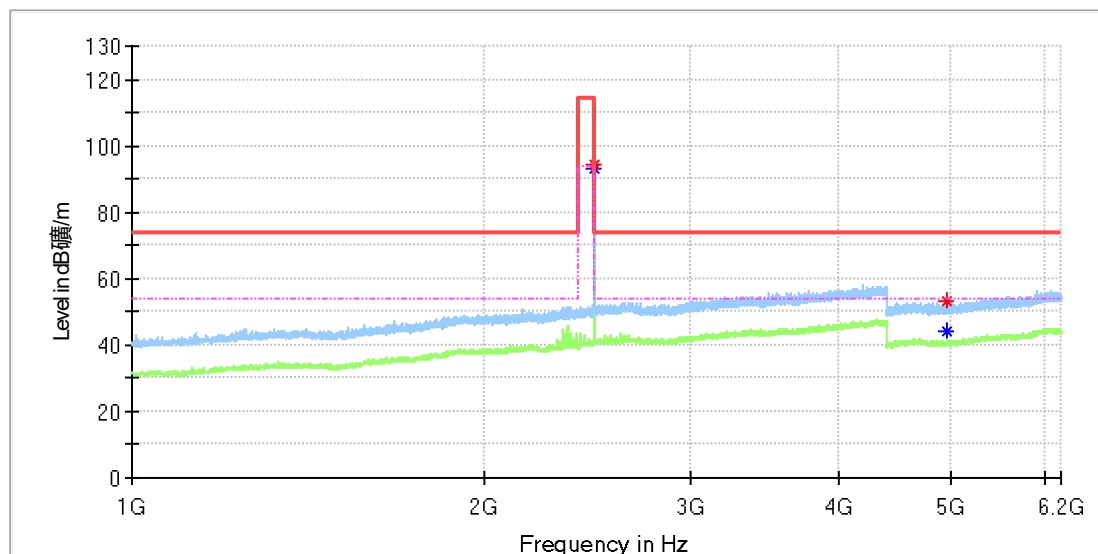
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) The test was performed on Low/middle/high channels, here just worst case channel result is shown.
- 3) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 40GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	---	92.86	94.00	1.14	150.0	H	83.0	9.0
2480.000000	94.21	---	114.00	19.79	150.0	H	83.0	9.0
4959.500000	52.93	---	74.00	21.07	150.0	H	218.0	13.3
4960.000000	---	44.33	54.00	9.67	150.0	H	241.0	13.3

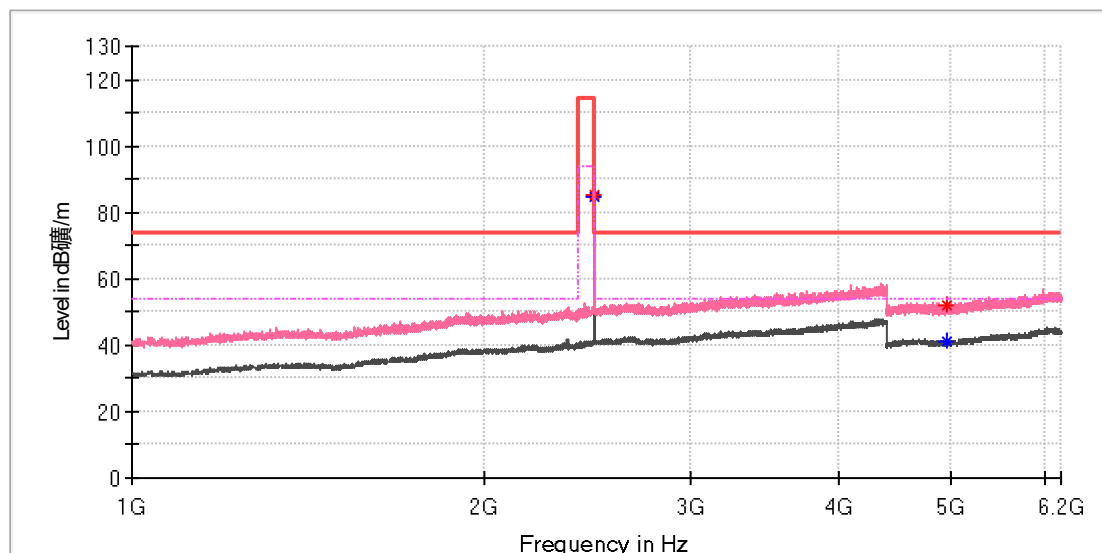
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	---	84.46	94.00	9.54	150.0	V	39.0	9.0
2480.000000	85.13	---	114.00	28.87	150.0	V	39.0	9.0
4955.500000	---	41.37	54.00	12.63	150.0	V	299.0	13.3
4959.000000	51.85	---	74.00	22.15	150.0	V	227.0	13.3

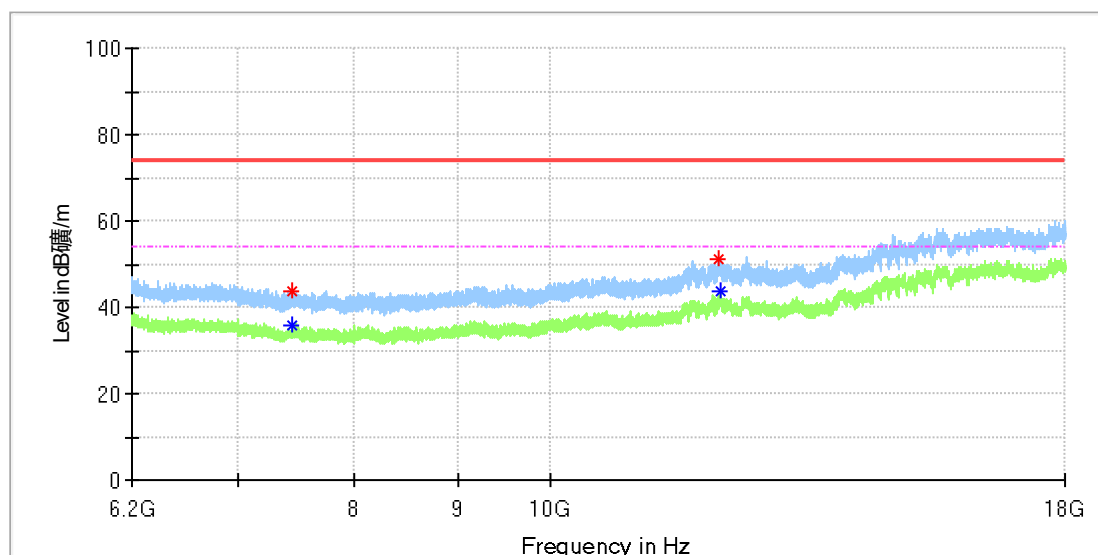
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7440.475000	43.83	---	74.00	30.17	150.0	H	216.0	8.4
7442.933333	---	35.96	54.00	18.04	150.0	H	114.0	8.5
12122.616667	51.16	---	74.00	22.84	150.0	H	358.0	16.0
12140.808333	---	43.59	54.00	10.41	150.0	H	67.0	16.5

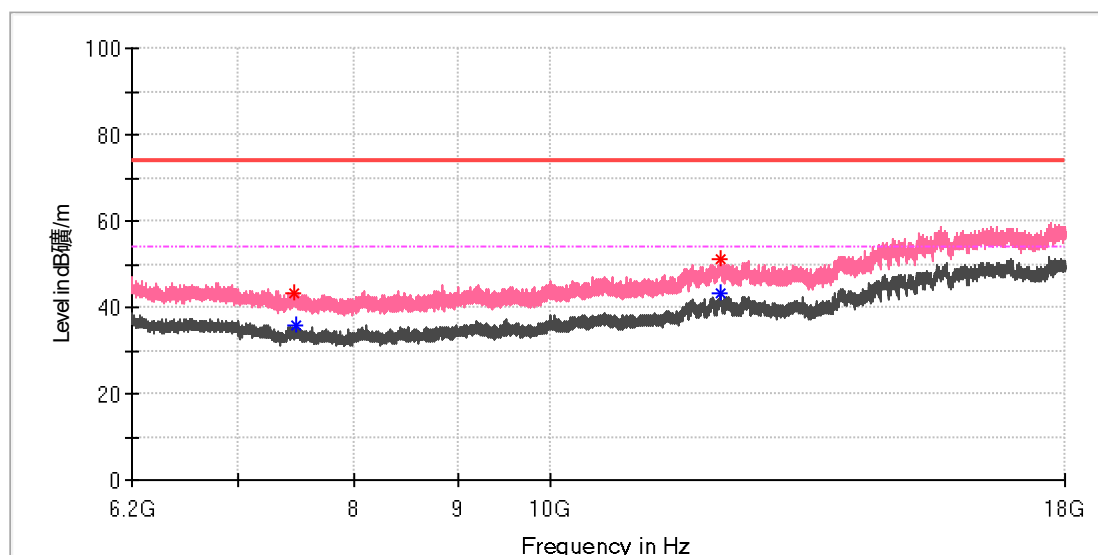
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7466.041667	43.13	---	74.00	30.87	150.0	V	327.0	8.6
7475.875000	---	35.68	54.00	18.32	150.0	V	56.0	8.6
12136.383333	51.20	---	74.00	22.80	150.0	V	134.0	16.4
12154.575000	---	43.16	54.00	10.84	150.0	V	0.0	16.5

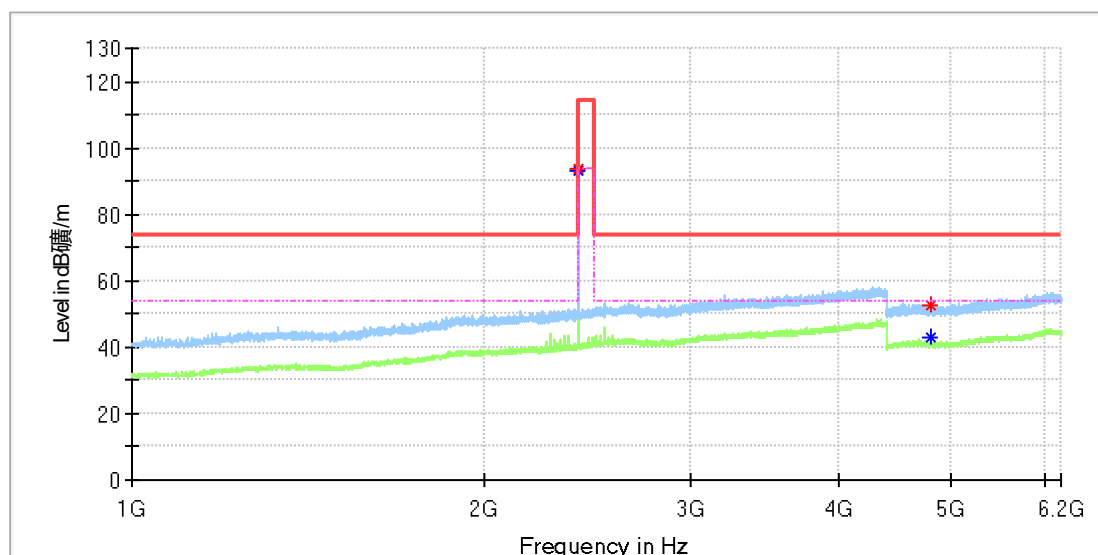
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.500000	93.81	---	114.00	20.19	150.0	H	78.0	8.5
2403.000000	---	92.97	94.00	1.03	150.0	H	88.0	8.5
4805.500000	52.67	---	74.00	21.33	150.0	H	192.0	13.3
4805.500000	---	43.03	54.00	10.97	150.0	H	192.0	13.3

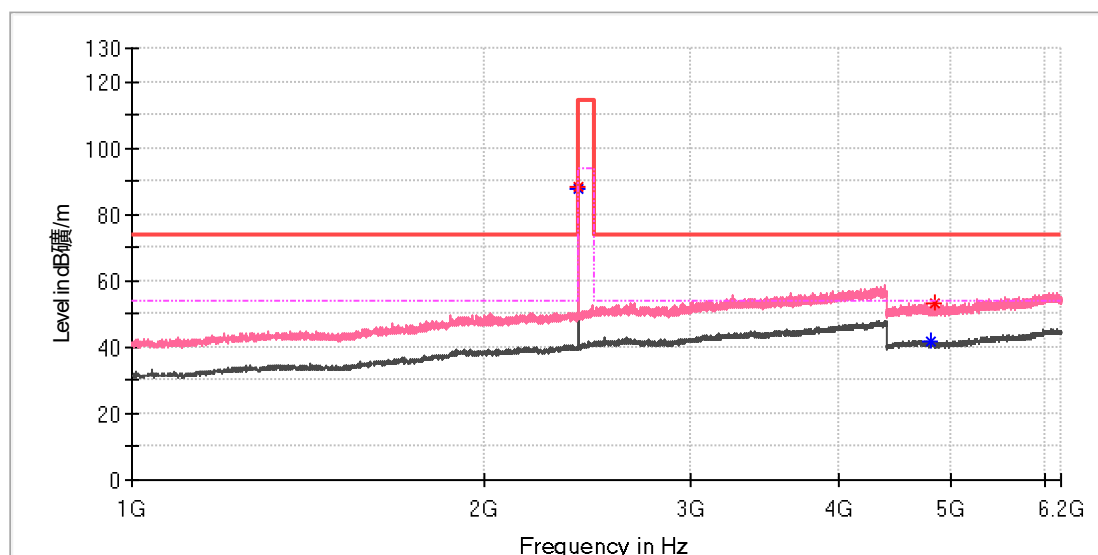
Final_Result

[illegible]

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.500000	88.33	---	114.00	25.67	150.0	V	32.0	8.5
2403.000000	---	87.48	94.00	6.52	150.0	V	32.0	8.5
4809.000000	---	41.44	54.00	12.56	150.0	V	177.0	13.3
4836.000000	53.40	---	74.00	20.60	150.0	V	75.0	13.3

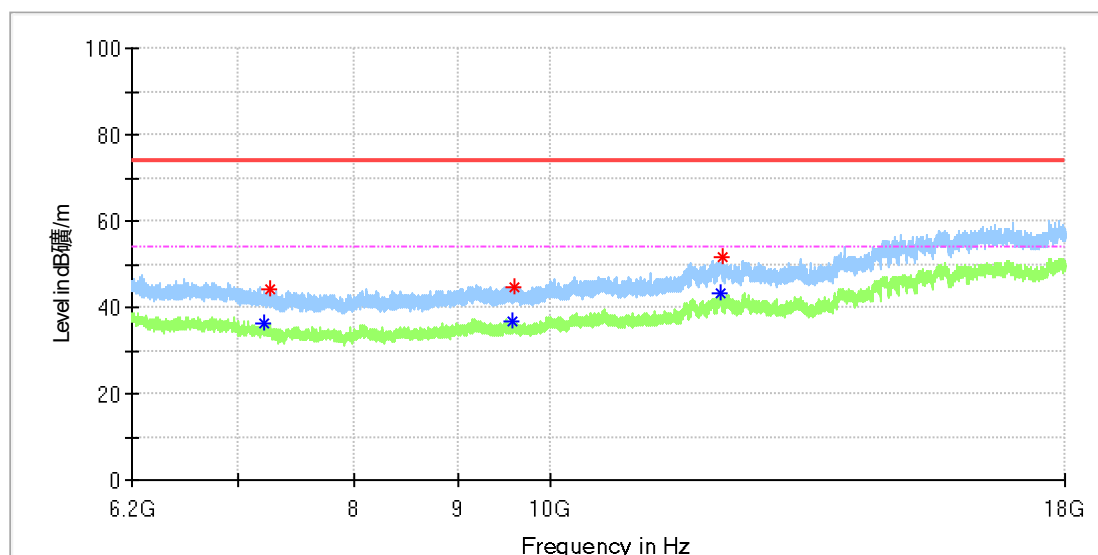
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		- - - -	- - - -

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7208.408333	---	36.20	54.00	17.80	150.0	H	213.0	8.8
7263.966667	44.12	---	74.00	29.88	150.0	H	306.0	8.5
9584.633333	---	36.92	54.00	17.08	150.0	H	0.0	10.3
9592.991667	44.65	---	74.00	29.35	150.0	H	0.0	10.3
12149.658333	---	43.17	54.00	10.83	150.0	H	340.0	16.7
12173.750000	51.50	---	74.00	22.50	150.0	H	189.0	15.5

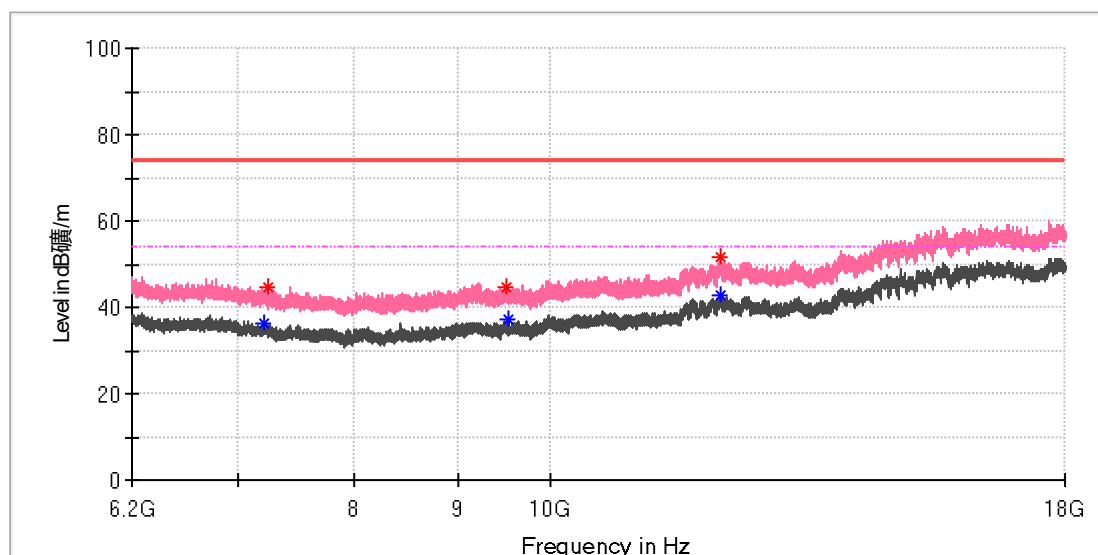
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Low channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7212.341667	---	36.40	54.00	17.60	150.0	V	216.0	8.7
7250.200000	44.76	---	74.00	29.24	150.0	V	83.0	8.5
9502.525000	44.54	---	74.00	29.46	150.0	V	49.0	9.9
9522.191667	---	37.14	54.00	16.86	150.0	V	4.0	10.1
12132.450000	51.60	---	74.00	22.40	150.0	V	60.0	16.3
12132.450000	---	43.02	54.00	10.98	150.0	V	60.0	16.3

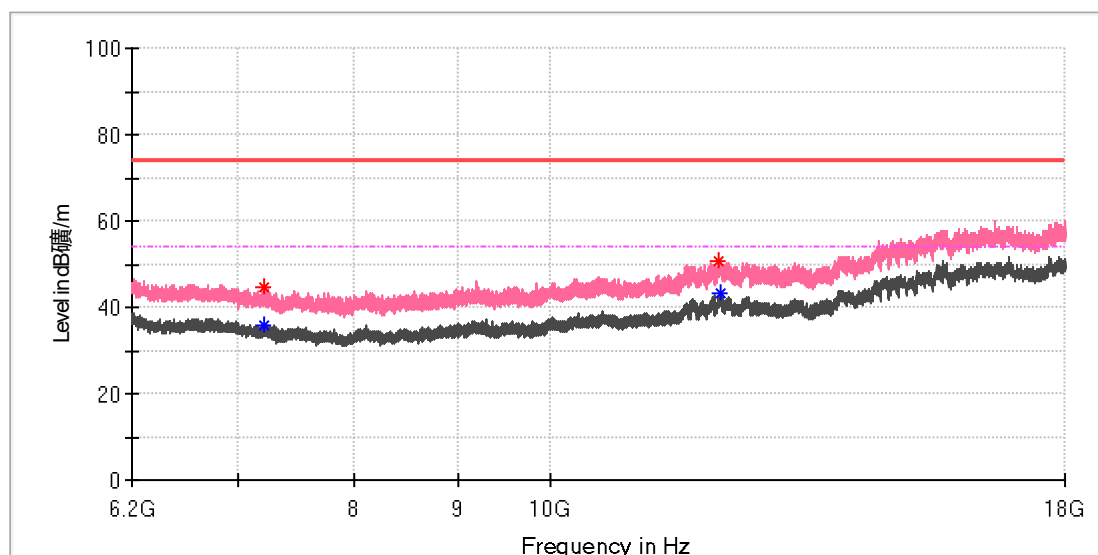
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7212.341667	44.71	---	74.00	29.29	150.0	V	104.0	8.7
7217.258333	---	36.04	54.00	17.96	150.0	V	82.0	8.7
12121.633333	50.51	---	74.00	23.49	150.0	V	231.0	16.0
12156.541667	---	43.13	54.00	10.87	150.0	V	243.0	16.4

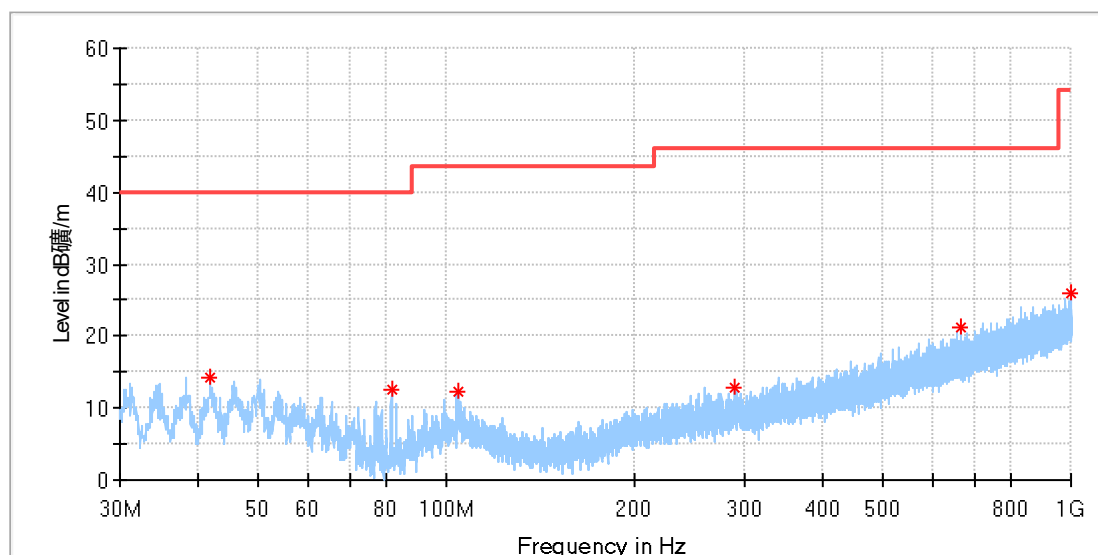
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.789231	14.17	40.00	25.83	100.0	H	239.0	-19.7
81.633846	12.50	40.00	27.50	100.0	H	157.0	-23.2
104.727308	12.19	43.50	31.31	100.0	H	60.0	-18.9
289.437692	12.92	46.00	33.08	100.0	H	24.0	-16.5
668.483846	21.12	46.00	24.88	100.0	H	24.0	-8.5
998.656923	26.07	54.00	27.93	100.0	H	77.0	-3.5

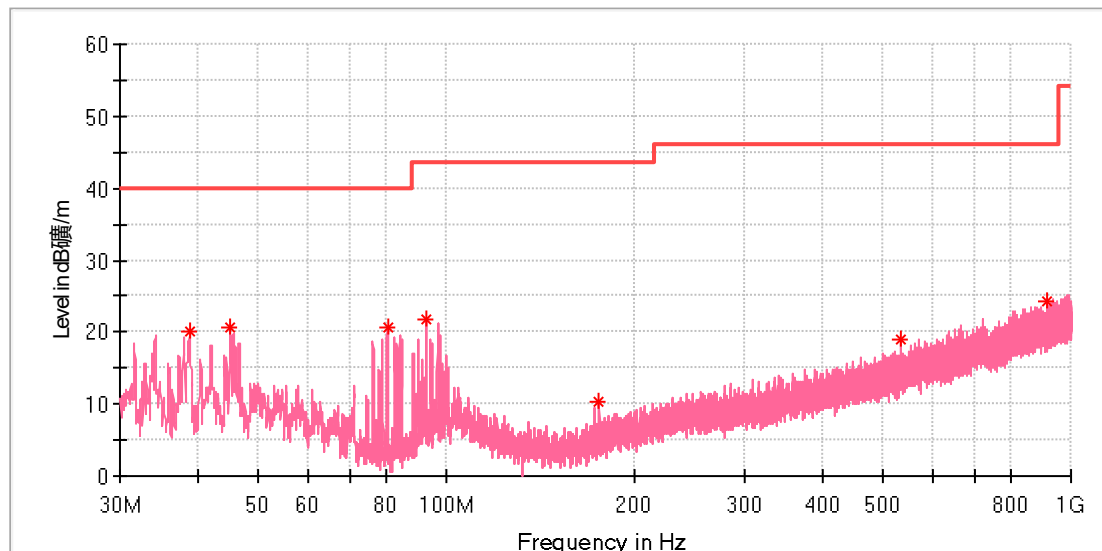
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_Mid channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	DC 29V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.804615	20.18	40.00	19.82	100.0	V	260.0	-20.6
45.035000	20.65	40.00	19.35	100.0	V	312.0	-18.9
80.440000	20.66	40.00	19.34	100.0	V	30.0	-23.5
92.826154	21.67	43.50	21.83	100.0	V	293.0	-20.4
175.723846	10.27	43.50	33.23	100.0	V	0.0	-21.0
534.400000	19.05	46.00	26.95	100.0	V	21.0	-11.1
917.699231	24.19	46.00	21.81	100.0	V	147.0	-4.6

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

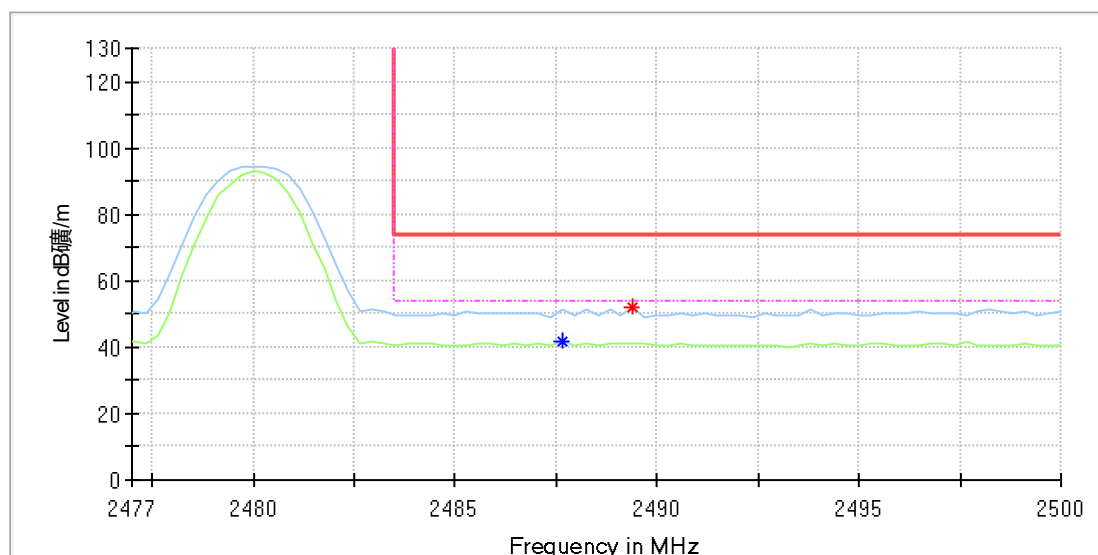
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.647059	---	41.67	54.00	12.33	150.0	H	176.0	9.0
2489.411765	51.83	---	74.00	22.17	150.0	H	359.0	9.0

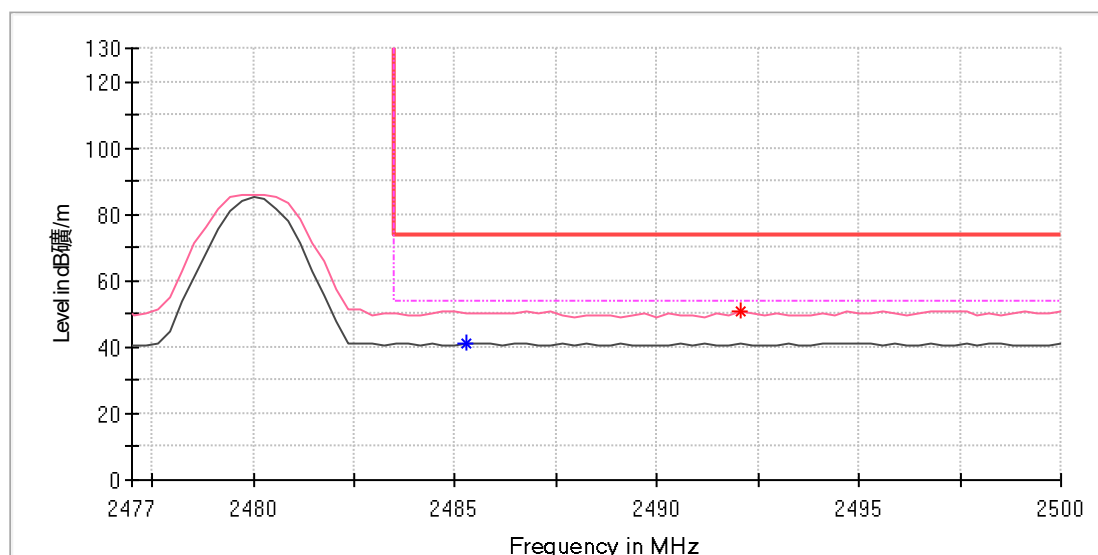
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Control BOX
Model:	CB5820
Test Mode:	2.4GHz_High channel
Order No/Sample No:	168557266/A004026789-005
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.294118	---	41.30	54.00	12.70	150.0	V	36.0	9.0
2492.058824	51.02	---	74.00	22.98	150.0	V	8.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.5: Test Results of Conducted Emissions

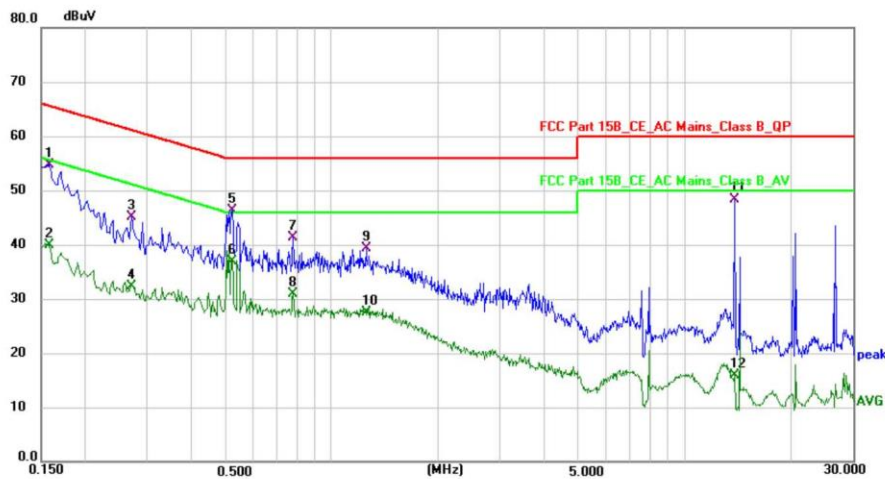


Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-Shielded Room Phase: **L1** Temperature: 26 °C
EUT: Control BOX Humidity: 54 %RH
M/N: CB5820 Test Engineer: Felix
Test Mode: Switch control and normal operation
Test Voltage: AC 120V/60Hz
Note:

Conducted Emission Measurement

Test Date: 2025/7/7 18:42:24



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1580	44.84	9.82	54.66	65.57	-10.91	QP	P	
2	0.1580	30.15	9.82	39.97	55.57	-15.60	AVG	P	
3	0.2700	35.25	9.86	45.11	61.12	-16.01	QP	P	
4	0.2700	22.43	9.86	32.29	51.12	-18.83	AVG	P	
5	0.5220	36.61	9.78	46.39	56.00	-9.61	QP	P	
6 *	0.5220	27.06	9.78	36.84	46.00	-9.16	AVG	P	
7	0.7780	31.59	9.71	41.30	56.00	-14.70	QP	P	
8	0.7780	21.14	9.71	30.85	46.00	-15.15	AVG	P	
9	1.2500	29.83	9.45	39.28	56.00	-16.72	QP	P	
10	1.2500	18.09	9.45	27.54	46.00	-18.46	AVG	P	
11	13.8620	38.52	9.79	48.31	60.00	-11.69	QP	P	
12	13.8620	6.03	9.79	15.82	50.00	-34.18	AVG	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

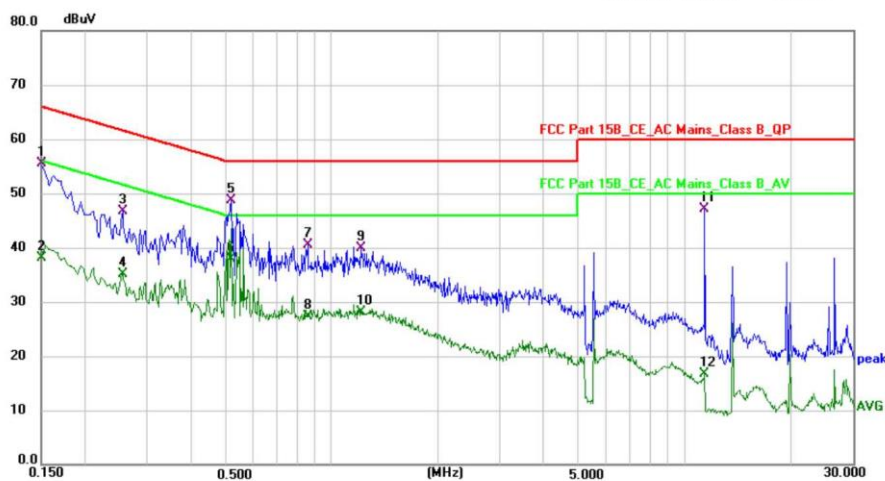


Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-Shielded Room Phase: **N** Temperature: 26 °C
EUT: Control BOX Humidity: 54 %RH
M/N: CB5820 Test Engineer: Felix
Test Mode: Switch control and normal operation
Test Voltage: AC 120V/60Hz
Note:

Conducted Emission Measurement

Test Date: 2025/7/7 18:52:41



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	45.67	9.77	55.44	66.00	-10.56	QP	P	
2	0.1500	28.31	9.77	38.08	56.00	-17.92	AVG	P	
3	0.2540	36.74	9.90	46.64	61.63	-14.99	QP	P	
4	0.2540	25.14	9.90	35.04	51.63	-16.59	AVG	P	
5 *	0.5180	38.92	9.78	48.70	56.00	-7.30	QP	P	
6	0.5180	28.06	9.78	37.84	46.00	-8.16	AVG	P	
7	0.8540	30.95	9.64	40.59	56.00	-15.41	QP	P	
8	0.8540	17.74	9.64	27.38	46.00	-18.62	AVG	P	
9	1.2140	30.40	9.46	39.86	56.00	-16.14	QP	P	
10	1.2140	18.55	9.46	28.01	46.00	-17.99	AVG	P	
11	11.3860	37.49	9.52	47.01	60.00	-12.99	QP	P	
12	11.3860	7.26	9.52	16.78	50.00	-33.22	AVG	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: CE\Data :#6

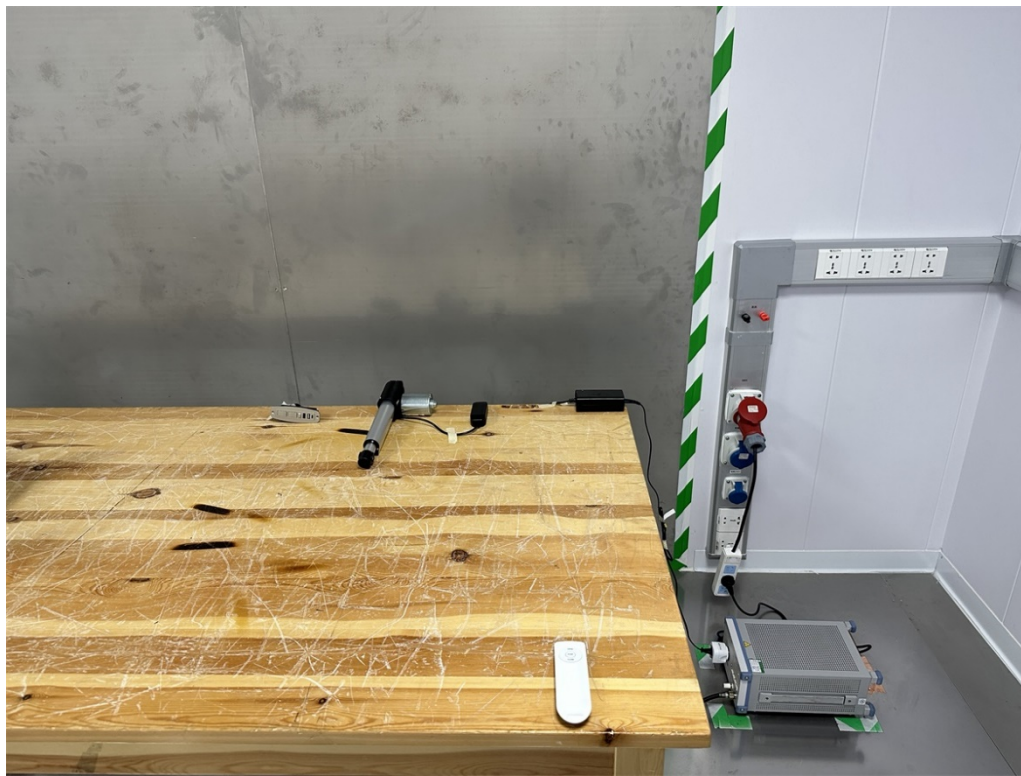
Page: 1

Engineer Signature:

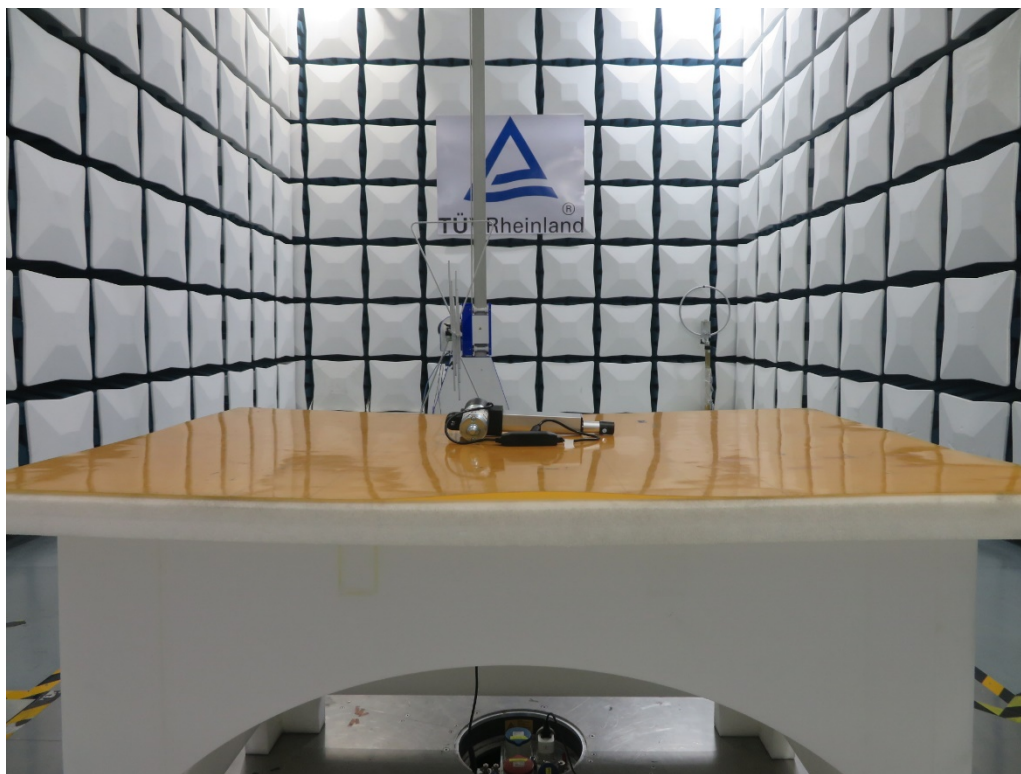
Appendix B: Photographs of the Test Set-Up

APPENDIX B: PHOTOGRAPHS OF THE TEST SET-UP	1
PHOTOGRAPH 1: SET-UP PHOTO FOR CONDUCTED EMISSION ON AC MAINS	2
PHOTOGRAPH 2: SET-UP PHOTO FOR RADIATED EMISSION, BELOW 1GHz	2
PHOTOGRAPH 3: SET-UP PHOTO FOR RADIATED EMISSION, ABOVE 1GHz	3

Photograph 1: Set-up photo for Conducted Emission on AC Mains



Photograph 2: Set-up photo for Radiated Emission, Below 1GHz



Photograph 3: Set-up photo for Radiated Emission, Above 1GHz

