

Test report no.: <i>Prüfbericht-Nr.:</i>	CN25RUDG 001	Order No.: <i>Auftragsnr.:</i>	168560989	Page 1 of 17 <i>Seite 1 von 17</i>
Client reference no.: <i>Kunden-Referenz-Nr.:</i>	N/A	Order date: <i>Auftragsdatum:</i>	2025-07-03	
Client: <i>Auftraggeber:</i>	Honeywell (Beijing) Technology Solutions Labs Co., Ltd. A1 Building, C&W Industry Zone, No.14 Jiuxianqiao Road, Chaoyang District, 100015, Beijing, P.R. China			
Test item: <i>Prüfgegenstand:</i>	Thermostat			
Identification / Type no.: <i>Bezeichnung / Typ-Nr.:</i>	TC321B-G, TC320C-G1, TC321C-G			
Order content: <i>Auftrags-Inhalt:</i>	Test Report			
Test specification <i>Prüfgrundlage:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 24, 2025			
Date of sample receipt: <i>Wareneingangsdatum:</i>	2025-07-13	Please refer to Photo Document		
Test sample no: <i>Prüfmuster-Nr.:</i>	A004040219-002, A004020373-002			
Testing period: <i>Prüfzeitraum:</i>	2025-07-16 - 2025-07-23			
Place of testing: <i>Ort der Prüfung:</i>	Refer to section 2.1			
Testing laboratory: <i>Prüflaboratorium:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Test result*: <i>Prüfergebnis*:</i>	Pass			
tested by: <i>geprüft von:</i>	<u>x Bell Hu</u>		authorized by: <i>genehmigt von:</i>	<u>x Jonathan Li</u>
Date: 2025-12-12 <i>Datum:</i>	Signed by: Bell Hu		Issue date: 2025-12-12 <i>Ausstellungsdatum:</i>	Signed by: Jonathan Li
Position / Stellung:	Expert/Sachverständige(r)	Position / Stellung:	Expert/Sachverständige(r)	
Other: <i>Sonstiges:</i>	FCC ID: 2ARTN-00011, IC: 24552-00011 HVIN: 941402 (PMN:TC321B-G), 830602(PMN: TC320C-G1),830606(PMN: TC321C-G) PMN: TC321B-G, TC320C-G1, TC321C-G This report is based on original report CN24VND9 001 under Class 2 permissive change for minor optimizations on non-RF circuits, RSE re-tested and reported.			
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>	Test item complete and undamaged Prüfmuster vollständig und unbeschädigt			
* 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
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Remarks
Anmerkungen

- | | |
|----------|--|
| 1 | <p>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.</p> <p><i>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.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
| 2 | <p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i></p> |
| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>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></p> |
| 4 | <p>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.</p> <p><i>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></p> |

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.3 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: Photographs of the Test Set-up

Appendix B: Test Results of Wi-Fi 802.11 b/g/n

Appendix C: Test Results of BLE

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, People's Republic of China

FCC Accreditation Designation No.: CN1260
ISED Wireless Device Testing Laboratory: 25069
A2LA Certificate Number: 5162.01

2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Table 1: List of Test and Measurement Equipment

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
Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	18.07.2026
Artificial Mains Network	R&S	ENV432	101546	09.02.2026
EMC32 Test Software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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.

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Temperature	± 1 °C
Humidity	± 5 %
Voltage (DC)	± 1 %
Voltage (AC, <10kHz)	± 2 %

2.6 LOCATION OF ORIGINAL DATA

The original copies of all test data taken during actual testing were attached at Appendix A & B & C 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, People's Republic of 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 thermostat as an advanced, highly configurable device providing building automation connectivity well-suited for commercial building applications. This device supports Wi-Fi 2.4GHz and Bluetooth (Low Energy) technology.

This report is based on original report CN24VND9 001 under Class 2 permissive change for minor optimizations on non-RF circuits. Since the changes do not affect RF characteristics, only the radiated spurious emissions were evaluated.

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

3.2 RATINGS AND SYSTEM DETAILS

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Thermostat
Type Designation:	TC321B-G, TC320C-G1, TC321C-G
FCC ID:	2ARTN-00011
IC:	24552-00011
HVIN:	941402 (PMN:TC321B-G) 830602 (PMN: TC320C-G1) 830606 (PMN: TC321C-G)
PMN:	TC321B-G, TC320C-G1, TC321C-G
Operating Voltage:	TC321B-G: 24V AC
	TC320C-G1, TC321C-G: 120-277V AC
Testing Voltage:	TC321B-G: 24V AC via AC/AC transformer
	TC320C-G1, TC321C-G: 120V AC
Operating Temperature Range:	0°C - 50°C

There are 3 models as TC321B-G, TC320C-G1, TC321C-G, which share the same PCB layout and RF circuits. The differences among them are the power supply circuit, CO₂ sensor and IO ports, which have no impact on RF performance, and already considered sufficiently in SDOC ICES report CN25UUFM 001. Details are listed in below table.

SKU	Power	Sensors	Peripheral
TC321B-G	1. TC320C-G1, TC321C-G are powered by AC 120-277V, and TC321B-G is powered by 24VAC with components of the transformer circuit removed, details as marked on the internal photos. 2. The relays are for different maximum loads.	T&H, CO ₂	3DO, 2DIO, 3UIO
TC320C-G1		T&H	5DO, 3UIO
TC321C-G		T&H, CO ₂	5DO, 3UIO

As above differences, full test performed on TC321B-G & TC321C-G are showed in this report.

Characteristic	Description
Wireless Technology:	WLAN
Operating Frequency Range:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Channel Separation:	5 MHz
Type of Modulation:	DSSS (DBPSK/DQPSK/CCK) OFDM (BPSK/QPSK/16QAM/64QAM)
Antenna Type:	PCB Antenna
Antenna Gain:	3.26 dBi (max. gain is declared by the manufacture)
Number of Antenna:	1
Characteristic	Description
Technical Specification of Bluetooth (Low Energy)	
Operating Frequency:	2400 - 2483.5 MHz
Operating Frequency Range:	2402 - 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2 MHz
Data Rate:	2Mbps, 1Mbps, 500kbps, 250kbps
Antenna Type:	PCB Antenna
Antenna Gain :	3.26 dBi (max. gain is declared by the manufacture)

Table 3: RF Channel and Frequency of Wi-Fi 802.11 b/g/n

RF Channel	b/g/n(HT20)	n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	/
11	2462	/

Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 20MHz Bandwidth mode.

Table 4: RF Channel and Frequency of Bluetooth (Low Energy)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474

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7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz

3.3 INDEPENDENT OPERATION MODES

The basic operation modes are:

A. On, Wi-Fi 802.11 b/g/n wireless transmitting mode

- 1) Low Channel
- 2) Middle Channel
- 3) High Channel

B. On, BLE wireless transmitting mode

- 1) Low Channel
- 2) Middle Channel
- 3) High Channel

C. On, Normal operation (Wi-Fi & BLE Link)

D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 SUBMITTED DOCUMENTS

- Application Form
- Operation Description
- Schematics
- PCB Layout
- Model Difference Letter
- User Manual
- Block Diagram
- Rating Label
- Parts List

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 FCC: ANSI C63.10:2020, ISSED: ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on models TC321B-G & TC321C-G in this report.

4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

Table 5: Auxiliary Equipment Used during Test

Description	Model	Manufacturer
Laptop	T480	Lenovo
Transformer (AC 120V - AC 24V)	N/A	N/A
Phone	Redmi K50	Xiaomi
Router	TL-XDR5430	TP-LINK
Auxiliary Load Board	N/A	Honeywell

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)

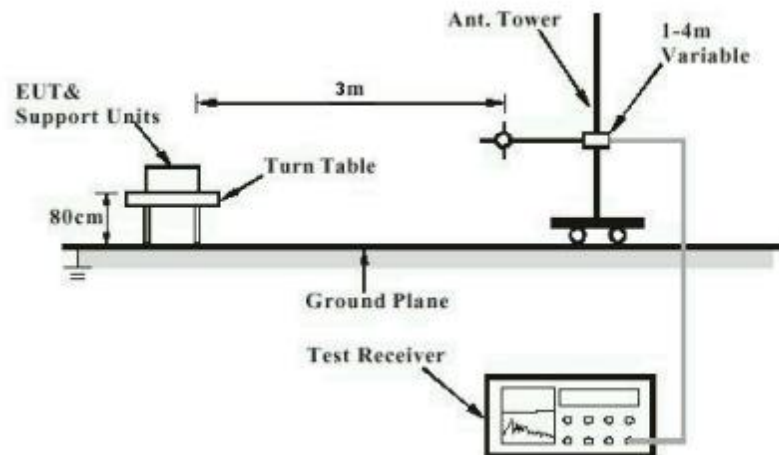


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

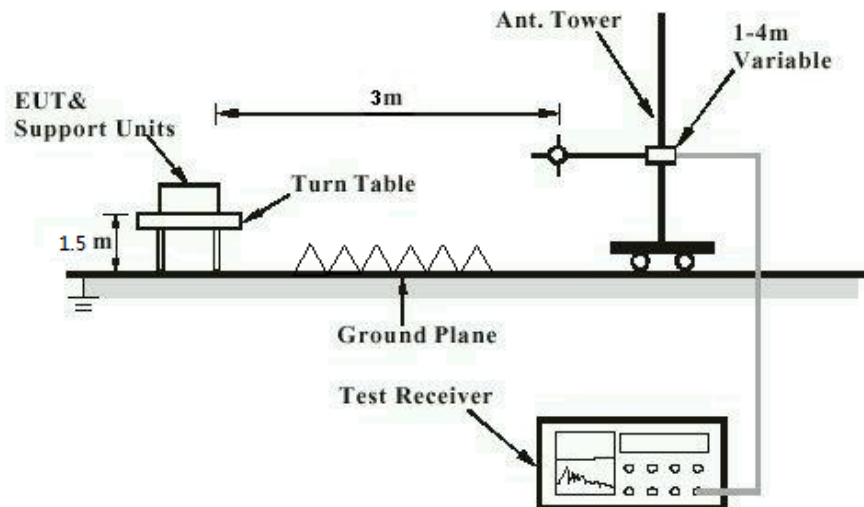
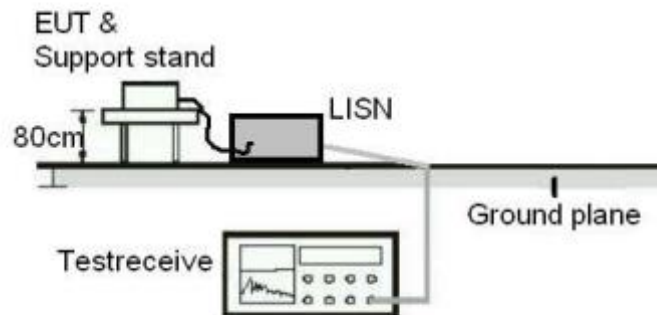


Diagram of Measurement Configuration for Mains Conduction Measurement



5 TEST RESULTS

5.1 TRANSMITTER REQUIREMENT & TEST SUITES

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

The EUT has a PCB antenna, the directional gain of antenna is 3.26 dBi, permanent attachment and no consideration of replacement.

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

Refer to EUT Photo for further details.

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5.1.2 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 6.6
Basic standard	: ANSI C63.10
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	: 2025-07-16 - 2025-07-23
Input voltage	: AC 120V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics, and only the worst-case mode reported.

For the measurement records, refer to the appendixes B, C.

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5.1.3 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207(a) RSS-GEN clause 8.8
Basic standard	: FCC: ANSI C63.10:2020, ISED: ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-07-16 - 2025-07-23
Input voltage	: AC 120V
Operation mode	: C
Earthing	: Not connected
Ambient temperature	: 22.5 °C
Relative humidity	: 54.7 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendixes B, C.

6 PHOTOGRAPHS OF THE TEST SET-UP

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

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APPENDIX B: TEST RESULTS OF WI-FI 802.11 B/G/N

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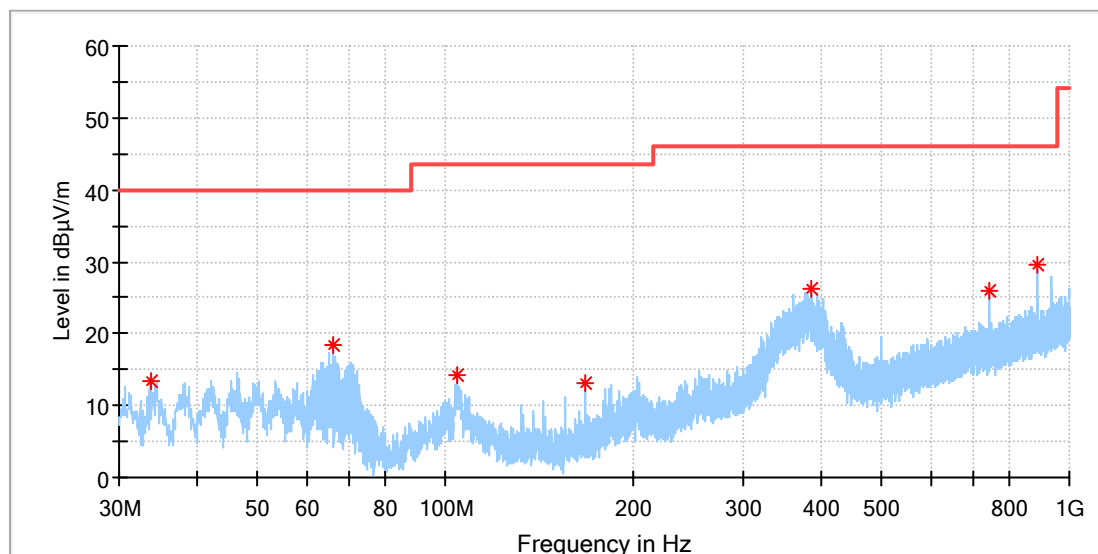
APPENDIX B.1: RADIATED SPURIOUS EMISSIONS

Note: 1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.
2. This testing was carried out on different modulations, but only the worst cases were presented in this report.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

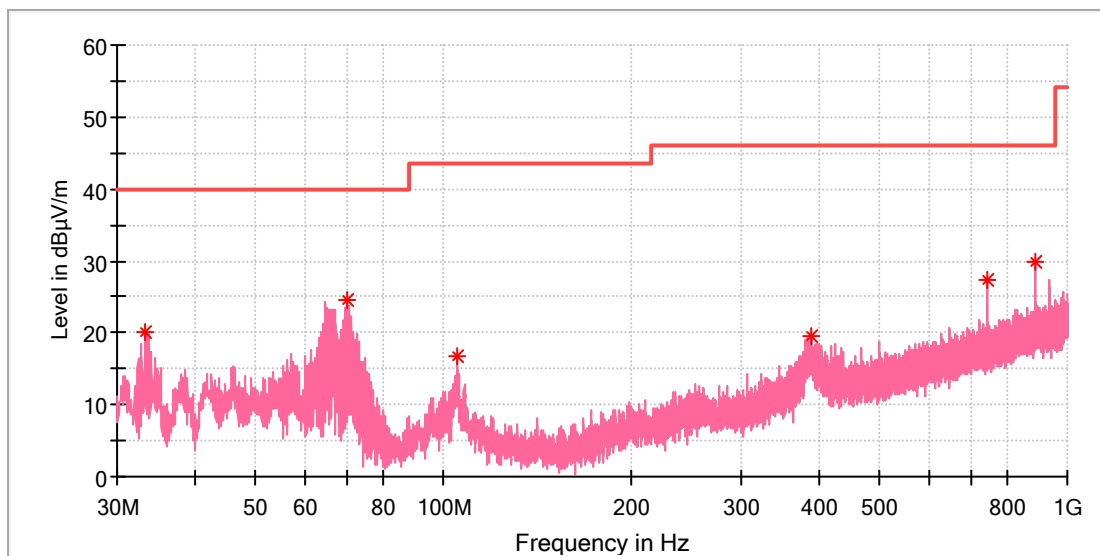
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.656154	13.35	40.00	26.65	100.0	H	287.0	-22.4
66.076539	18.46	40.00	21.54	100.0	H	325.0	-20.6
104.764615	14.36	43.50	29.14	100.0	H	163.0	-18.9
167.926539	13.14	43.50	30.36	100.0	H	354.0	-21.4
385.542308	26.32	46.00	19.68	100.0	H	276.0	-14.1
742.502308	26.09	46.00	19.91	100.0	H	7.0	-7.2
890.986923	29.57	46.00	16.43	100.0	H	193.0	-4.9

Final_Result

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

EUT Name: Honeywell
Model: TC321B-G
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168560989/A004020373-002
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
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)
33.245769	20.12	40.00	19.88	100.0	V	150.0	-22.5
70.143077	24.43	40.00	15.57	100.0	V	6.0	-22.0
105.286923	16.63	43.50	26.87	100.0	V	295.0	-18.9
387.594231	19.59	46.00	26.41	100.0	V	283.0	-14.1
742.502308	27.49	46.00	18.51	100.0	V	356.0	-7.2
890.986923	29.75	46.00	16.25	100.0	V	17.0	-4.9

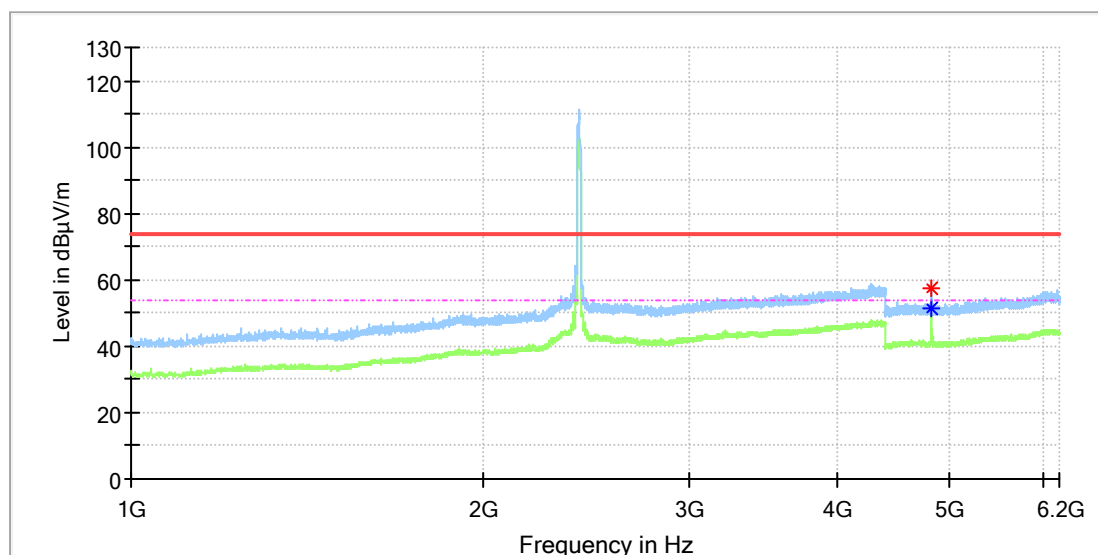
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz-18GHz

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

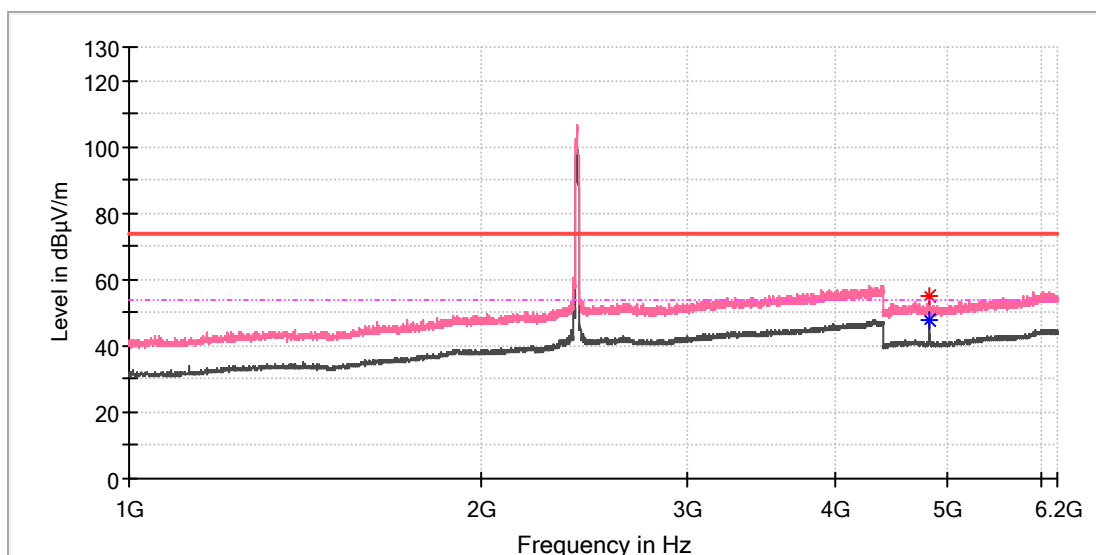
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	57.53	---	74.00	16.47	150.0	H	243.0	13.3
4824.000000	---	51.12	54.00	2.88	150.0	H	243.0	13.3

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

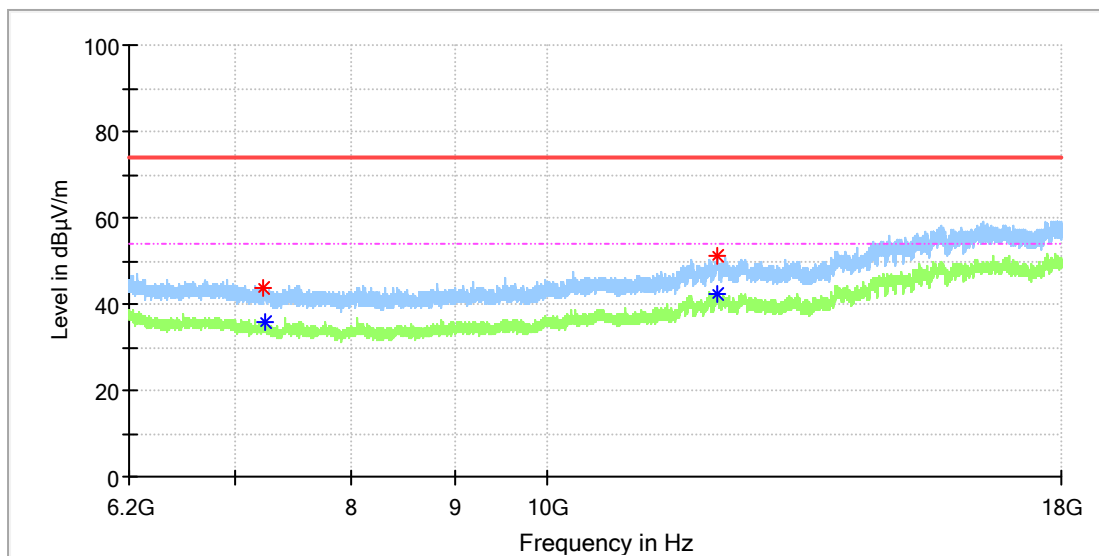
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	54.84	---	74.00	19.16	150.0	V	225.0	13.3
4824.000000	---	47.71	54.00	6.29	150.0	V	225.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

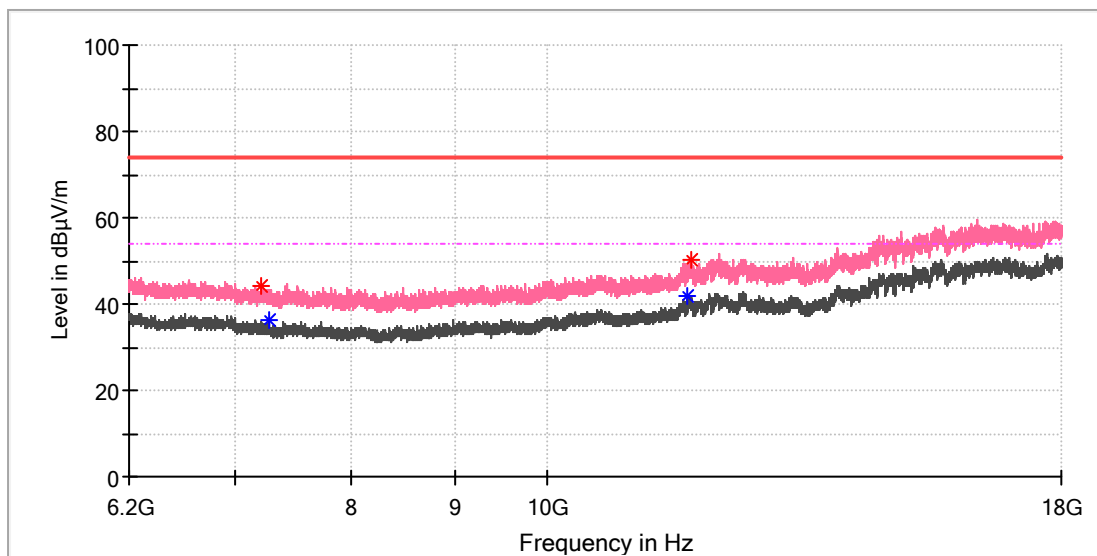
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7220.208333	43.93	---	74.00	30.07	150.0	H	178.0	8.7
7240.366667	---	35.89	54.00	18.11	150.0	H	191.0	8.6
12135.891667	---	42.45	54.00	11.55	150.0	H	4.0	16.4
12146.216667	51.32	---	74.00	22.68	150.0	H	306.0	16.6

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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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

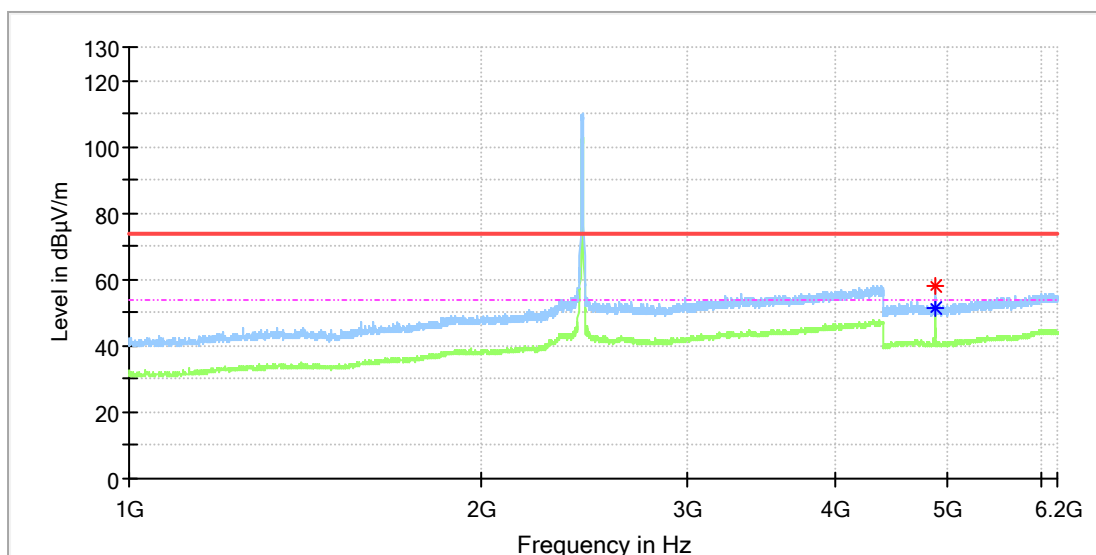
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.983333	44.23	---	74.00	29.77	150.0	V	221.0	8.8
7269.866667	---	36.13	54.00	17.87	150.0	V	317.0	8.5
11749.441667	---	41.99	54.00	12.01	150.0	V	44.0	15.5
11787.300000	50.34	---	74.00	23.66	150.0	V	317.0	15.0

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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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

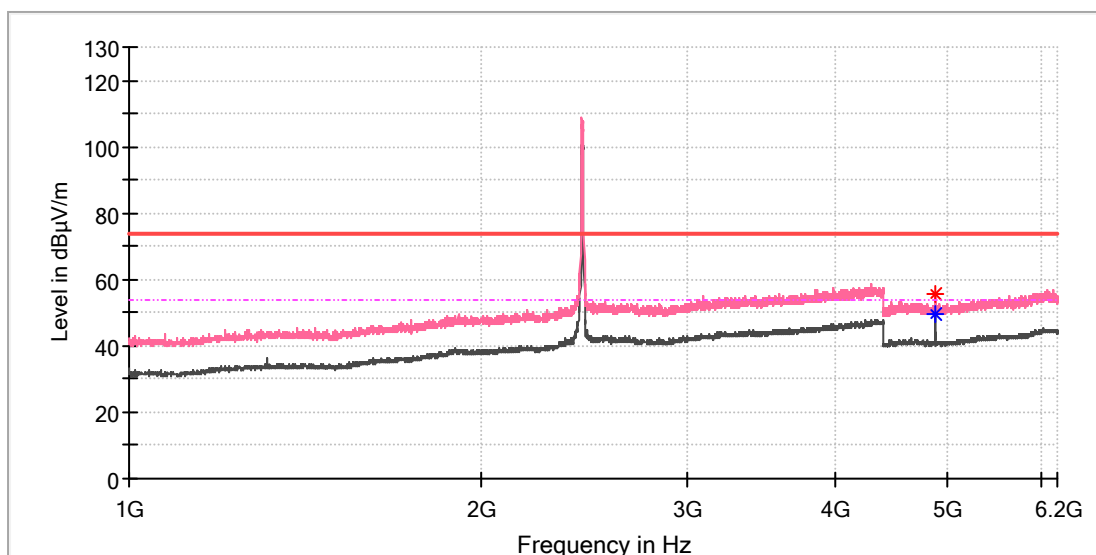
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	58.05	---	74.00	15.95	150.0	H	243.0	13.3
4874.000000	---	51.18	54.00	2.82	150.0	H	243.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

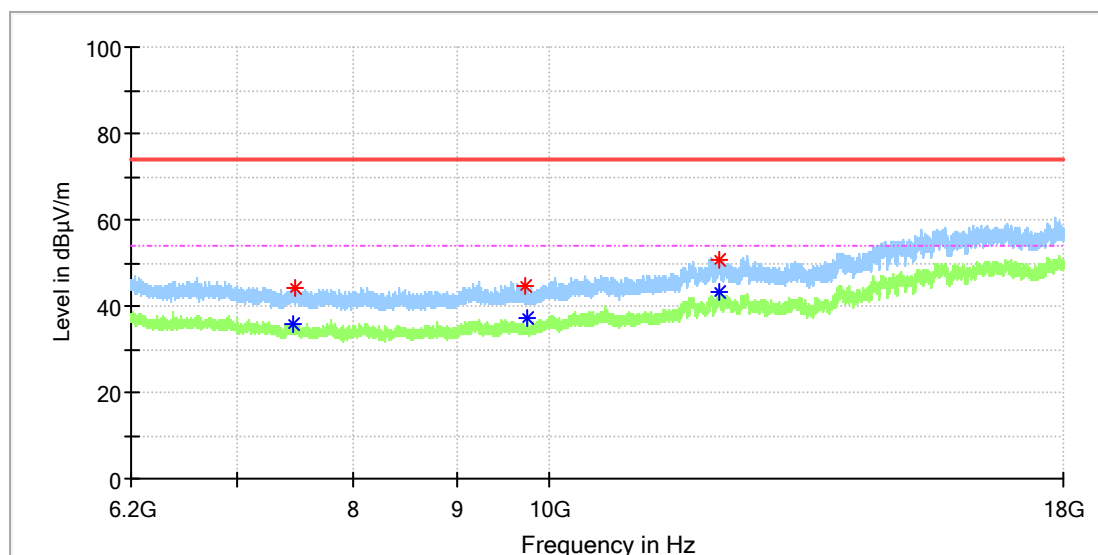
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	55.35	---	74.00	18.65	150.0	V	257.0	13.3
4874.000000	---	49.31	54.00	4.69	150.0	V	257.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

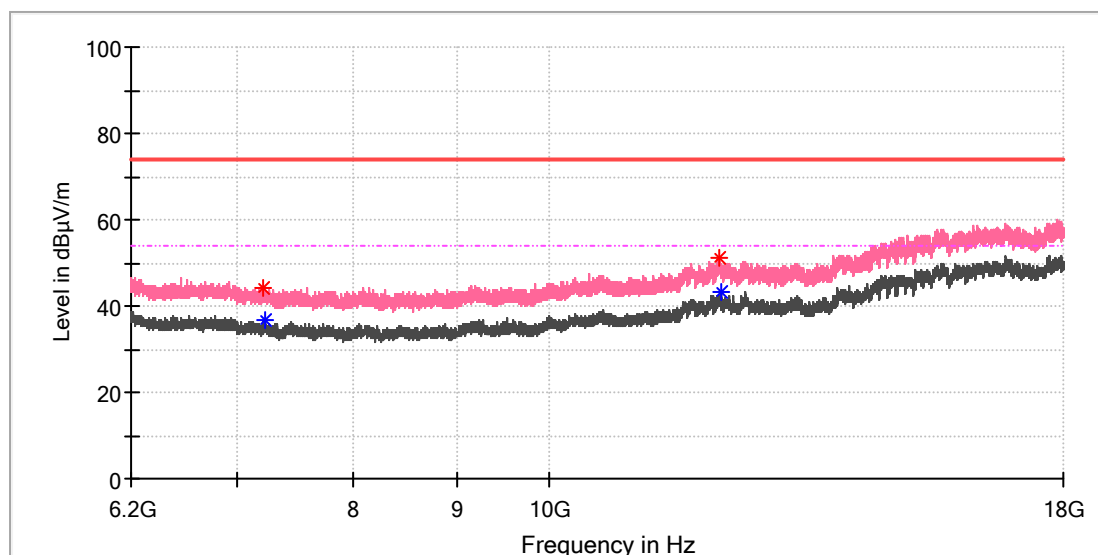
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7466.533333	---	35.83	54.00	18.17	150.0	H	350.0	8.6
7477.350000	43.96	---	74.00	30.04	150.0	H	340.0	8.6
9718.366667	44.67	---	74.00	29.33	150.0	H	204.0	10.4
9747.866667	---	37.00	54.00	17.00	150.0	H	236.0	10.4
12145.233333	---	43.06	54.00	10.94	150.0	H	30.0	16.6
12151.133333	50.58	---	74.00	23.42	150.0	H	263.0	16.7

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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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

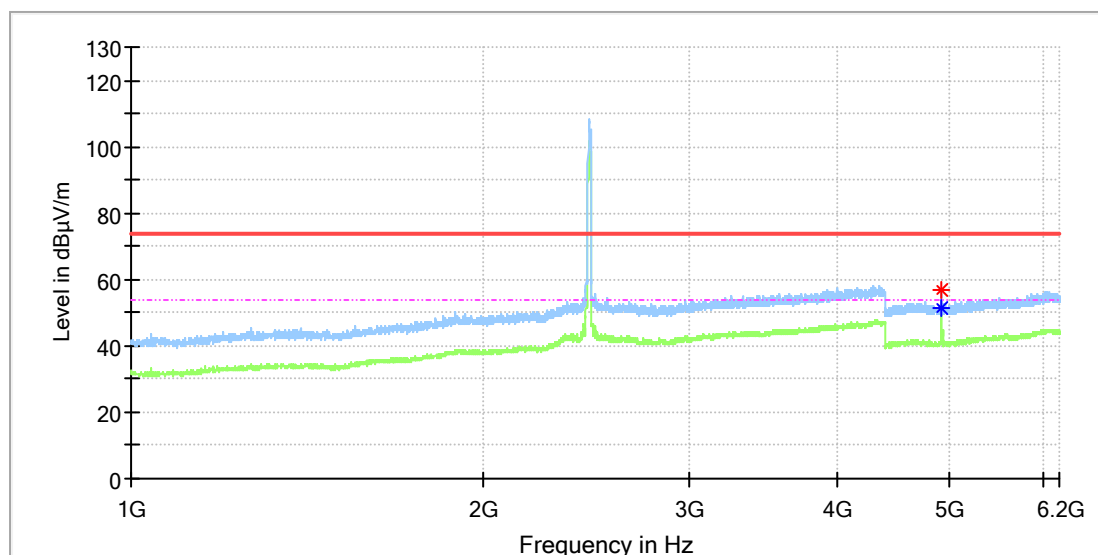
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7210.375000	44.28	---	74.00	29.72	150.0	V	17.0	8.7
7227.583333	---	36.69	54.00	17.32	150.0	V	129.0	8.7
12150.641667	51.01	---	74.00	22.99	150.0	V	196.0	16.7
12161.458333	---	43.34	54.00	10.66	150.0	V	221.0	16.1

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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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

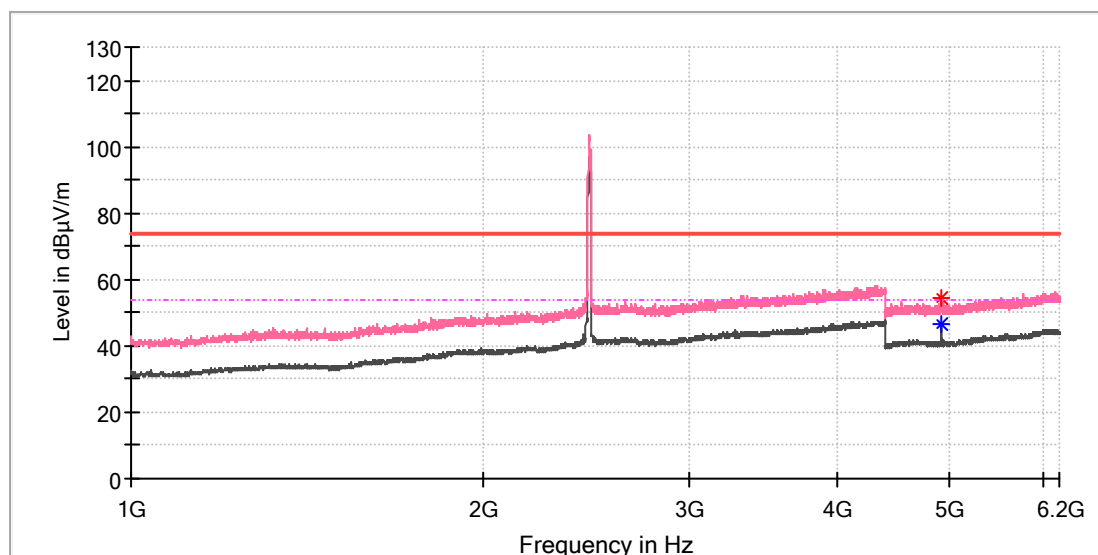
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	57.06	---	74.00	16.94	150.0	H	242.0	13.3
4924.000000	---	51.57	54.00	2.43	150.0	H	242.0	13.3

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

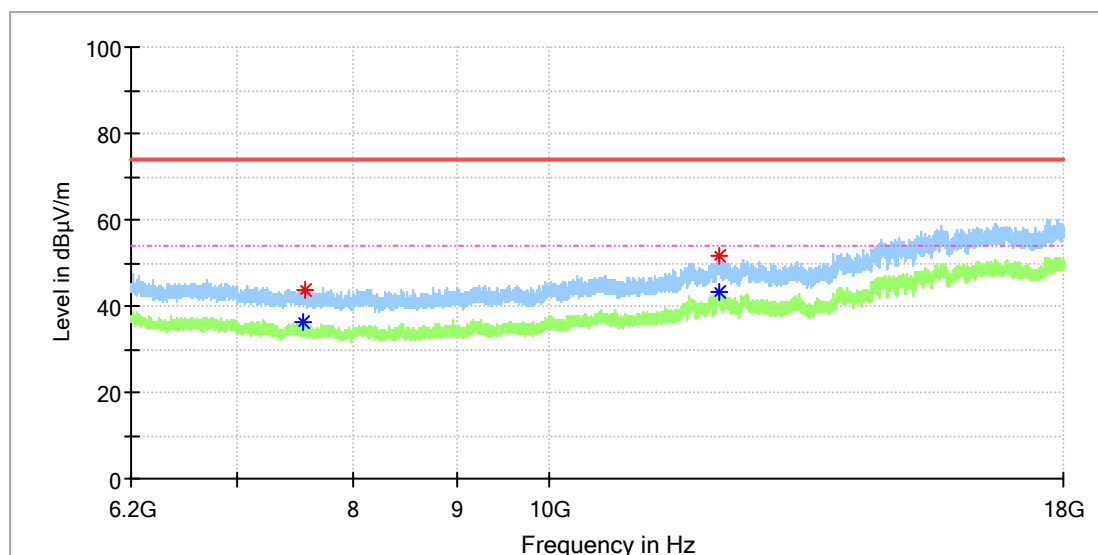
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	54.20	---	74.00	19.80	150.0	V	242.0	13.3
4924.000000	---	46.78	54.00	7.22	150.0	V	242.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

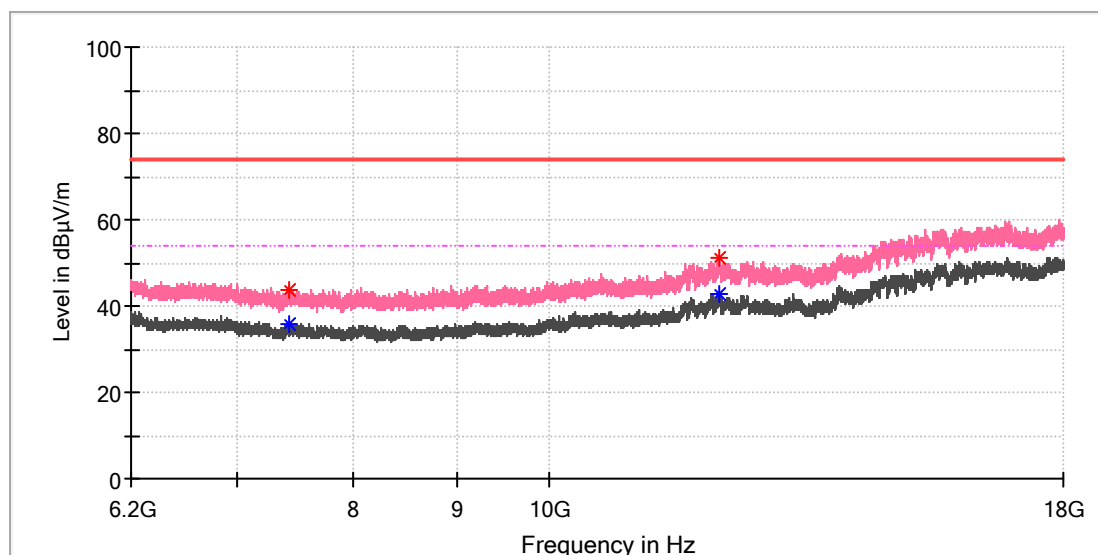
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7555.033333	---	36.39	54.00	17.61	150.0	H	87.0	8.7
7568.800000	43.88	---	74.00	30.12	150.0	H	176.0	8.7
12142.775000	---	43.18	54.00	10.82	150.0	H	164.0	16.5
12149.166667	51.64	---	74.00	22.36	150.0	H	199.0	16.7

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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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

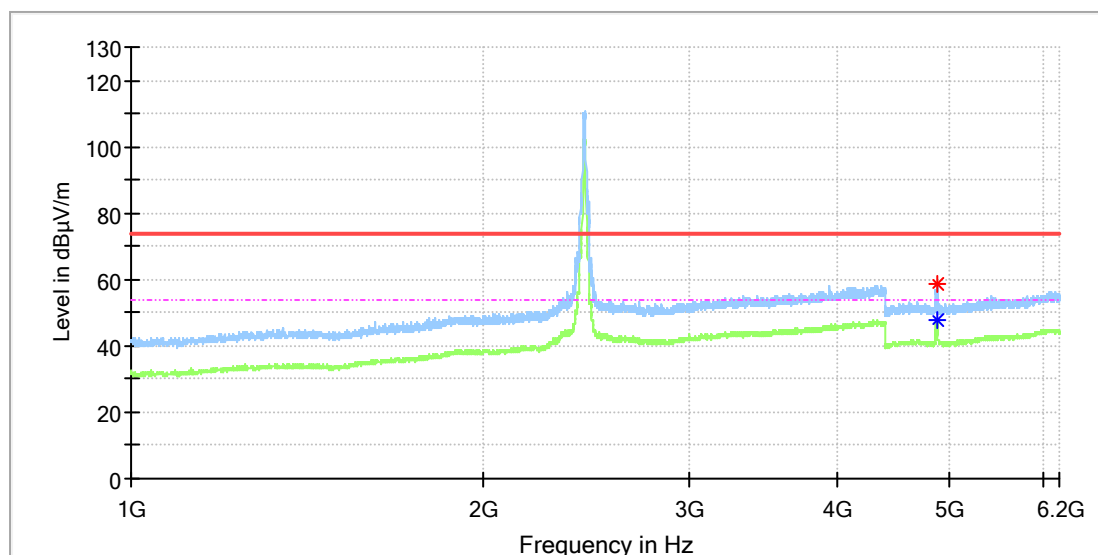
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7426.216667	43.93	---	74.00	30.07	150.0	V	0.0	8.4
7435.558333	---	35.74	54.00	18.26	150.0	V	358.0	8.4
12144.741667	---	42.85	54.00	11.15	150.0	V	0.0	16.6
12152.608333	50.94	---	74.00	23.06	150.0	V	350.0	16.6

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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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

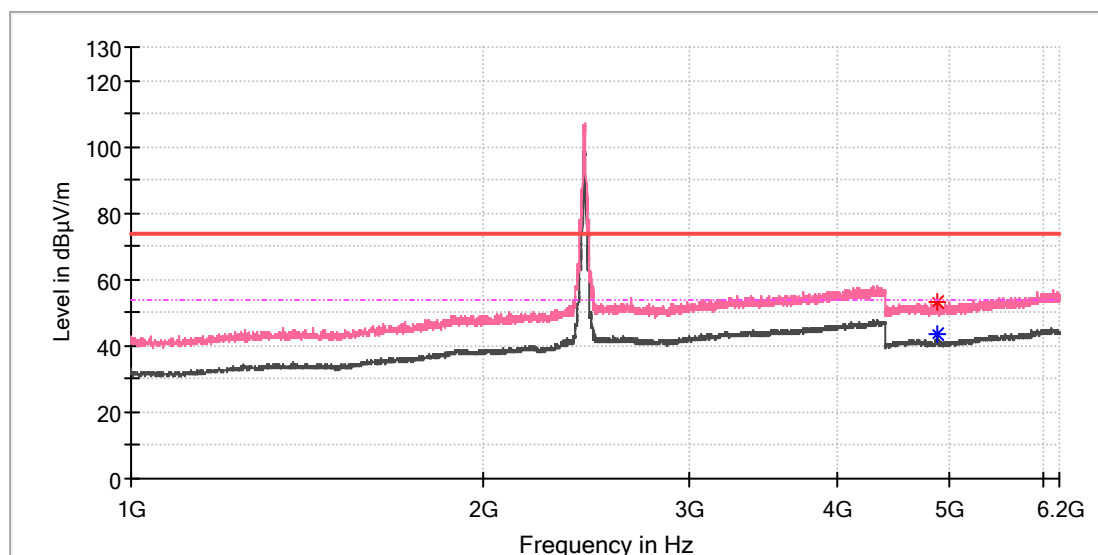
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	---	47.73	54.00	6.27	150.0	H	248.0	13.3
4874.500000	58.94	---	74.00	15.06	150.0	H	244.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

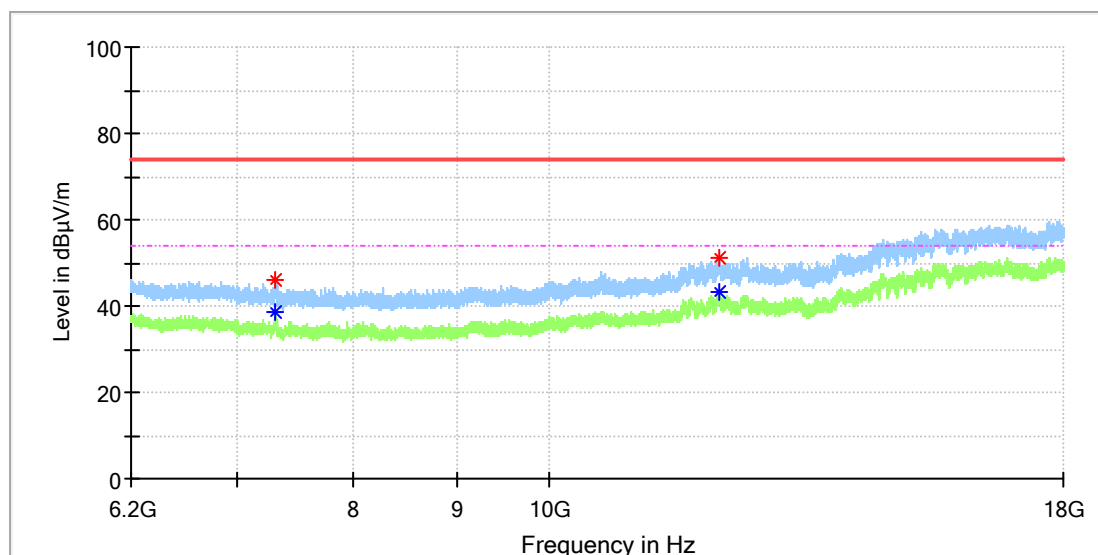
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.500000	53.15	---	74.00	20.85	150.0	V	264.0	13.3
4875.000000	---	43.74	54.00	10.26	150.0	V	277.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

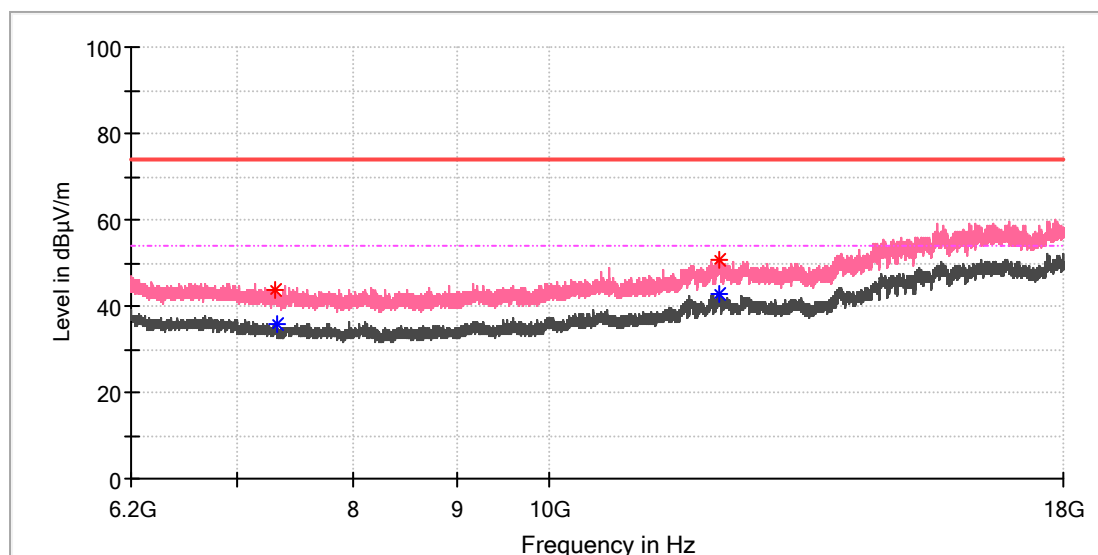
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7307.233333	45.86	---	74.00	28.14	150.0	H	305.0	8.3
7310.675000	---	38.63	54.00	15.37	150.0	H	234.0	8.2
12142.775000	51.08	---	74.00	22.92	150.0	H	13.0	16.5
12152.116667	---	43.35	54.00	10.65	150.0	H	211.0	16.6

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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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11g_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

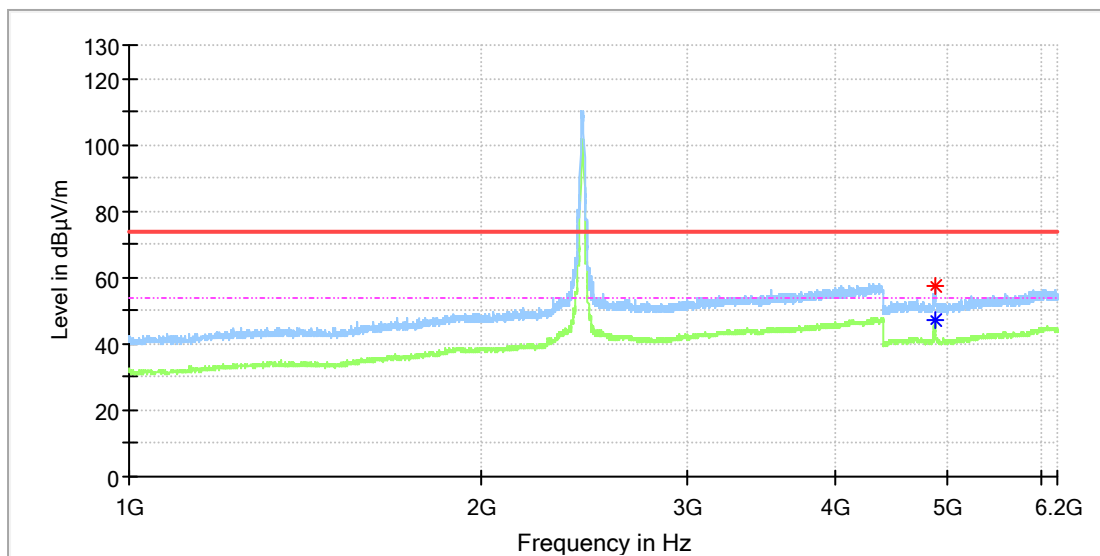
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	43.94	---	74.00	30.06	150.0	V	248.0	8.2
7318.541667	---	35.79	54.00	18.21	150.0	V	345.0	8.2
12145.233333	50.78	---	74.00	23.22	150.0	V	292.0	16.6
12157.525000	---	42.67	54.00	11.33	150.0	V	188.0	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)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

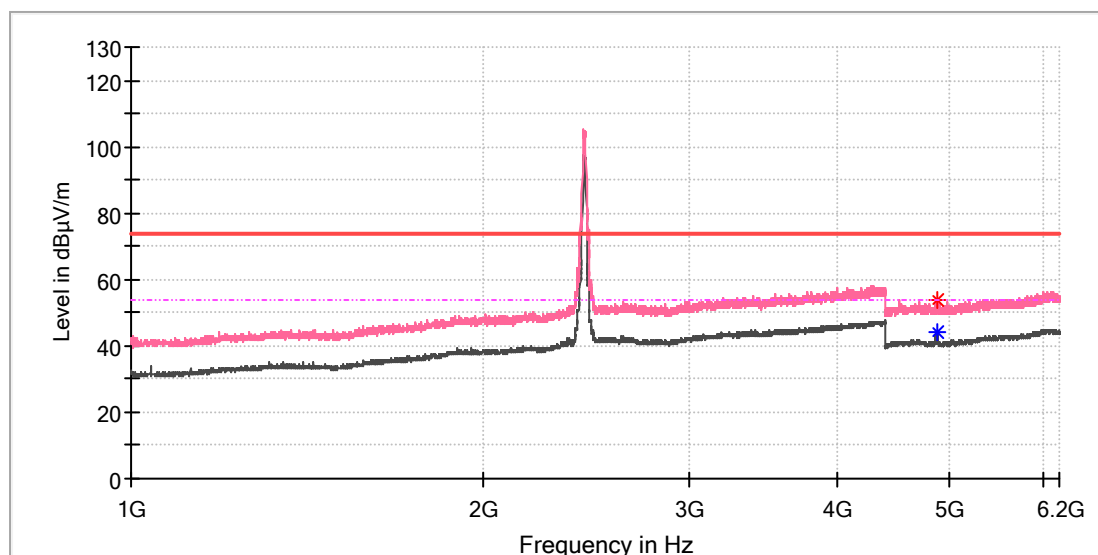
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.000000	57.25	---	74.00	16.75	150.0	H	243.0	13.3
4874.500000	---	46.97	54.00	7.03	150.0	H	248.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
900 000 000	900 000 000	900 000 000	900 000 000	900 000 000	900 000 000		900 000 000	900 000 000

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

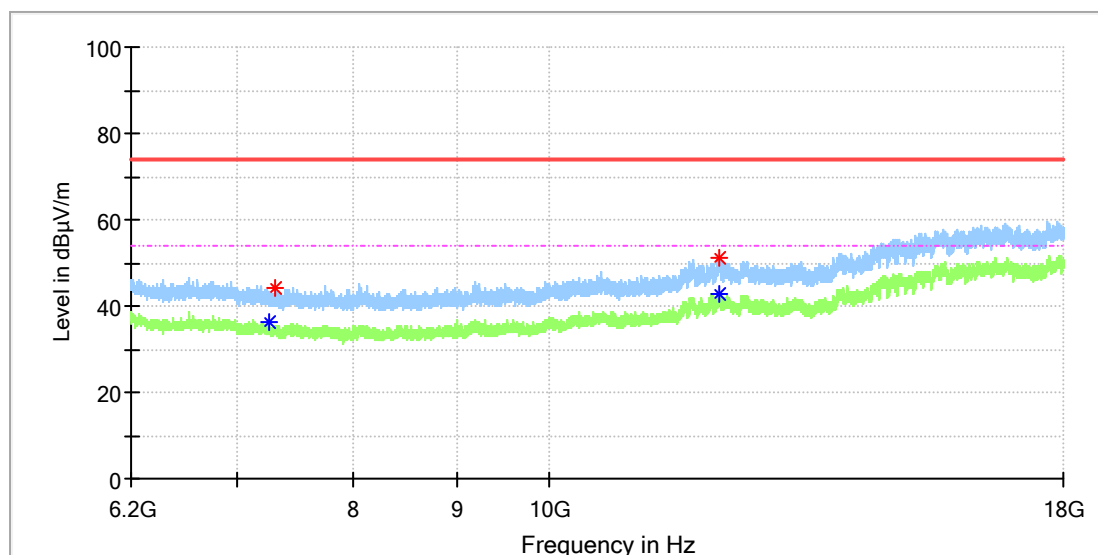
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	44.25	54.00	9.75	150.0	V	265.0	13.3
4878.500000	53.65	---	74.00	20.35	150.0	V	265.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

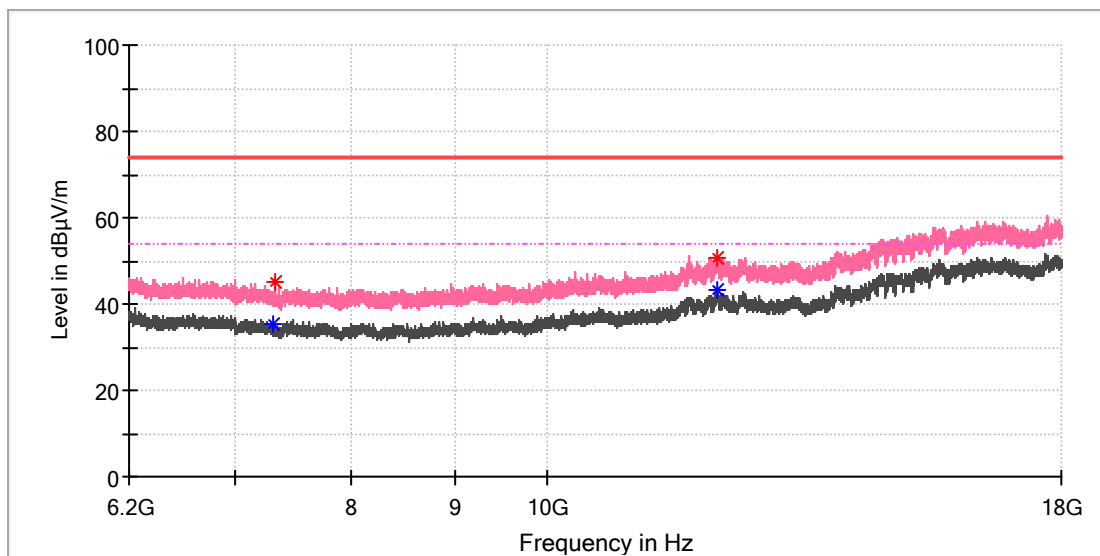
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7263.966667	---	36.15	54.00	17.85	150.0	H	15.0	8.5
7314.608333	44.18	---	74.00	29.82	150.0	H	324.0	8.2
12144.250000	---	42.90	54.00	11.10	150.0	H	172.0	16.6
12145.725000	51.11	---	74.00	22.89	150.0	H	136.0	16.6

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n20_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

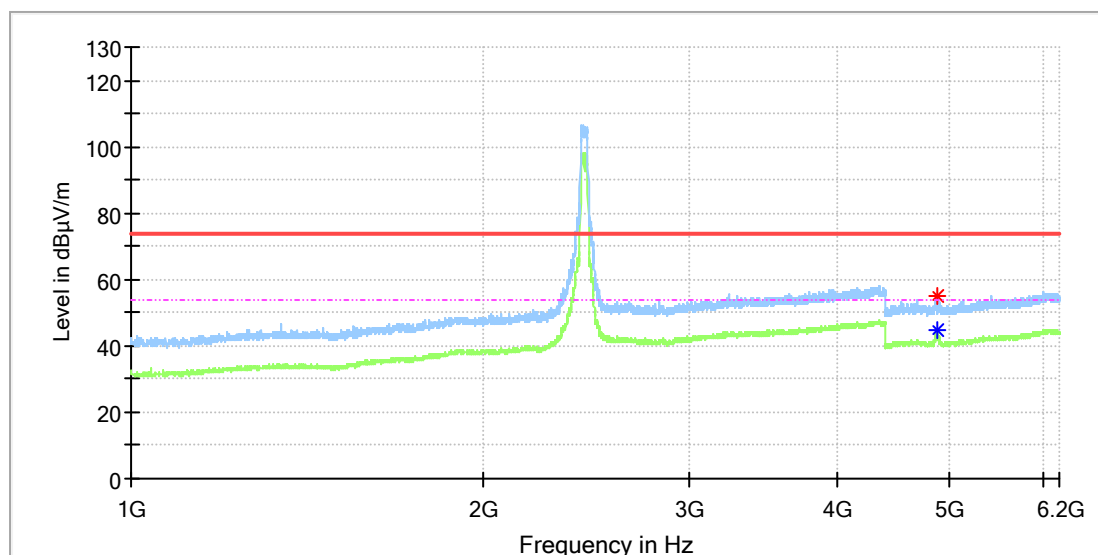
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.183333	---	35.30	54.00	18.70	150.0	V	300.0	8.2
7319.033333	45.11	---	74.00	28.89	150.0	V	266.0	8.2
12131.958333	50.92	---	74.00	23.08	150.0	V	310.0	16.3
12142.283333	---	43.38	54.00	10.62	150.0	V	17.0	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)
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EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

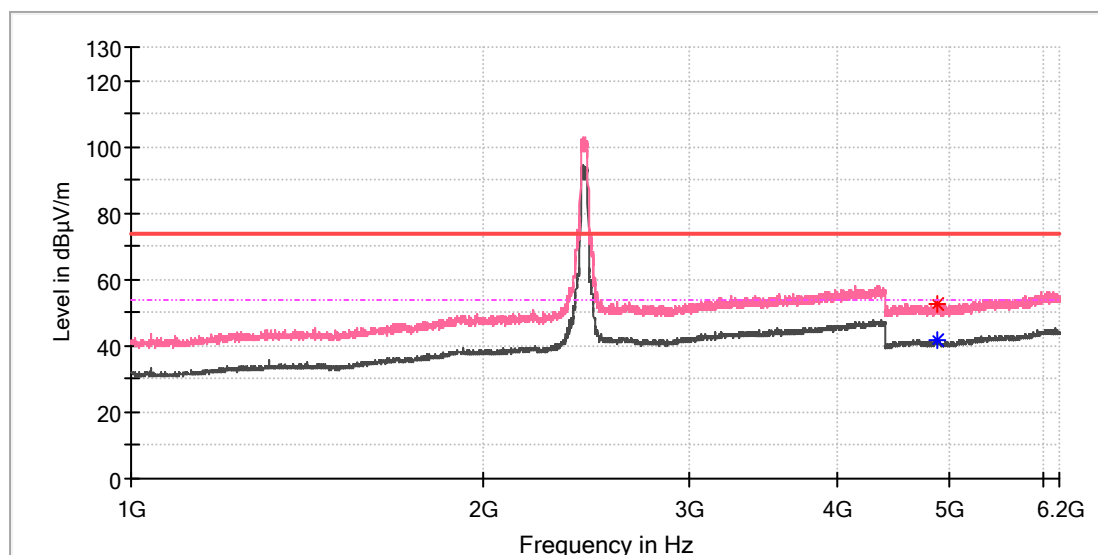
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.000000	---	44.74	54.00	9.26	150.0	H	247.0	13.3
4879.500000	54.73	---	74.00	19.27	150.0	H	239.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz		93.750 MHz	93.750 MHz

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

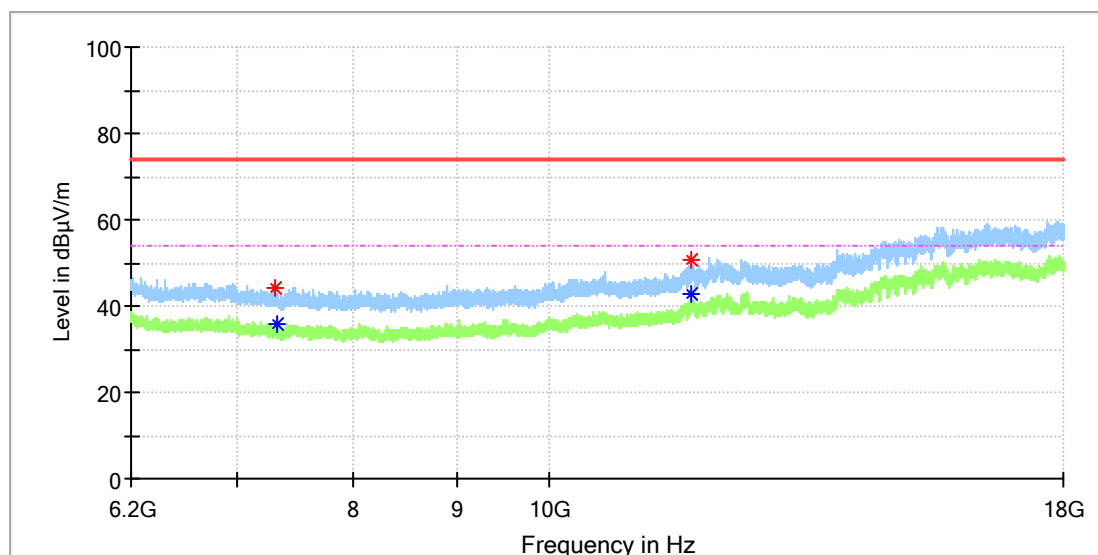
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4872.500000	---	41.94	54.00	12.06	150.0	V	263.0	13.3
4873.500000	52.32	---	74.00	21.68	150.0	V	263.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz	93.750 MHz		93.750 MHz	93.750 MHz

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

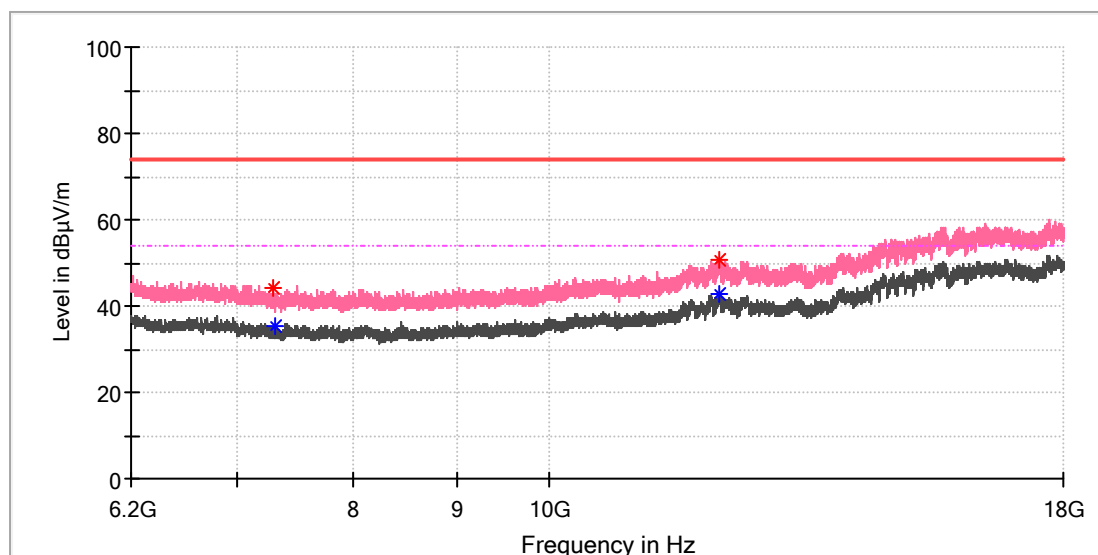
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7302.808333	44.12	---	74.00	29.88	150.0	H	280.0	8.3
7323.458333	---	35.81	54.00	18.19	150.0	H	129.0	8.2
11750.916667	50.71	---	74.00	23.29	150.0	H	304.0	15.5
11758.291667	---	42.73	54.00	11.27	150.0	H	0.0	15.4

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n40_Ch6
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
7297.891667	44.11	---	74.00	29.89	150.0	V	119.0	8.3
7303.300000	---	35.41	54.00	18.59	150.0	V	167.0	8.3
12132.450000	---	42.74	54.00	11.26	150.0	V	293.0	16.3
12148.675000	50.74	---	74.00	23.26	150.0	V	255.0	16.7

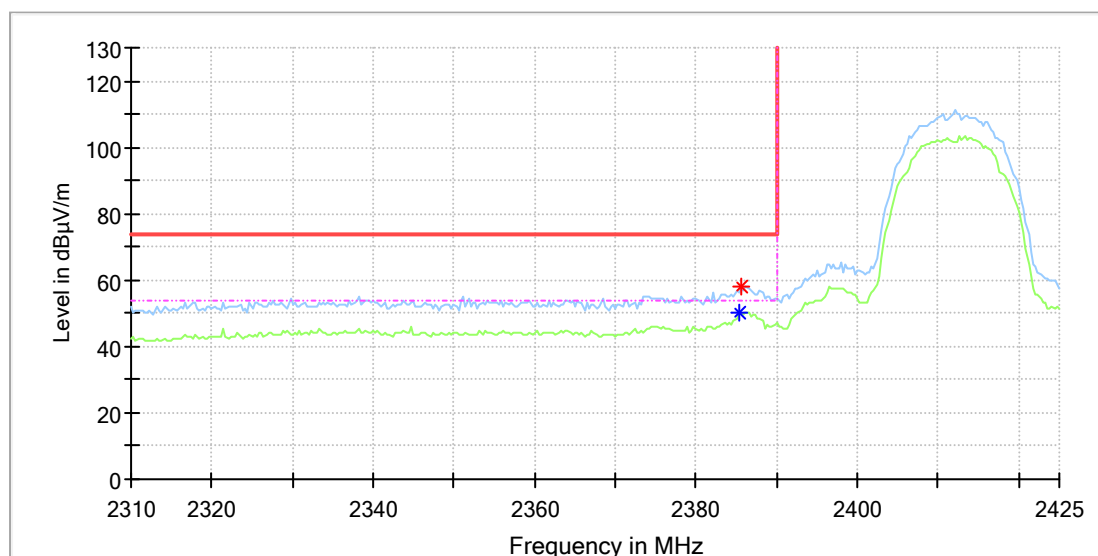
Final Result

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

APPENDIX B.2: RADIATED EMISSIONS IN RESTRICTED BANDS

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

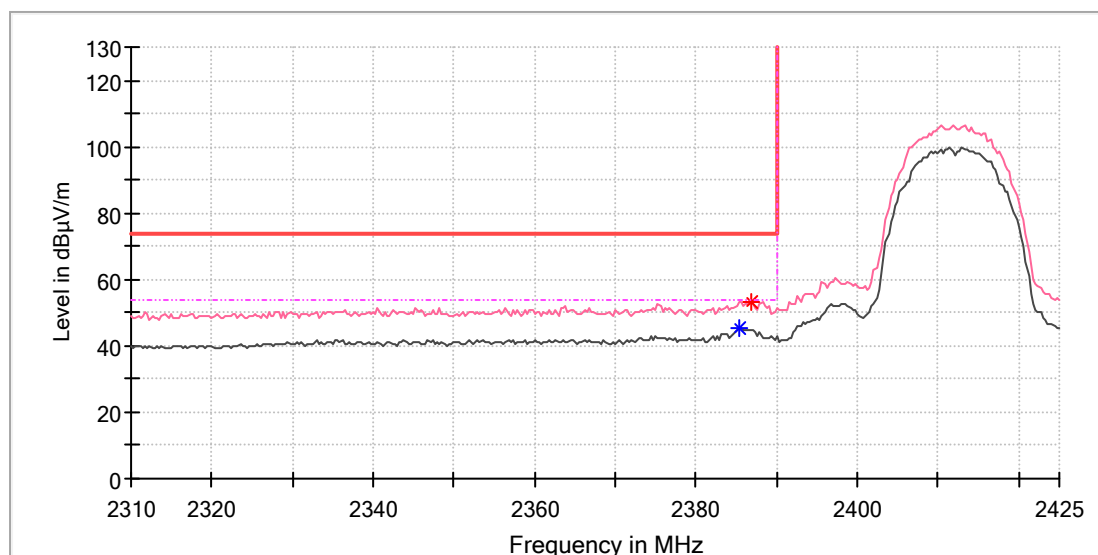
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.294118	---	49.93	54.00	4.07	150.0	H	100.0	8.5
2385.588235	58.25	---	74.00	15.75	150.0	H	100.0	8.5

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

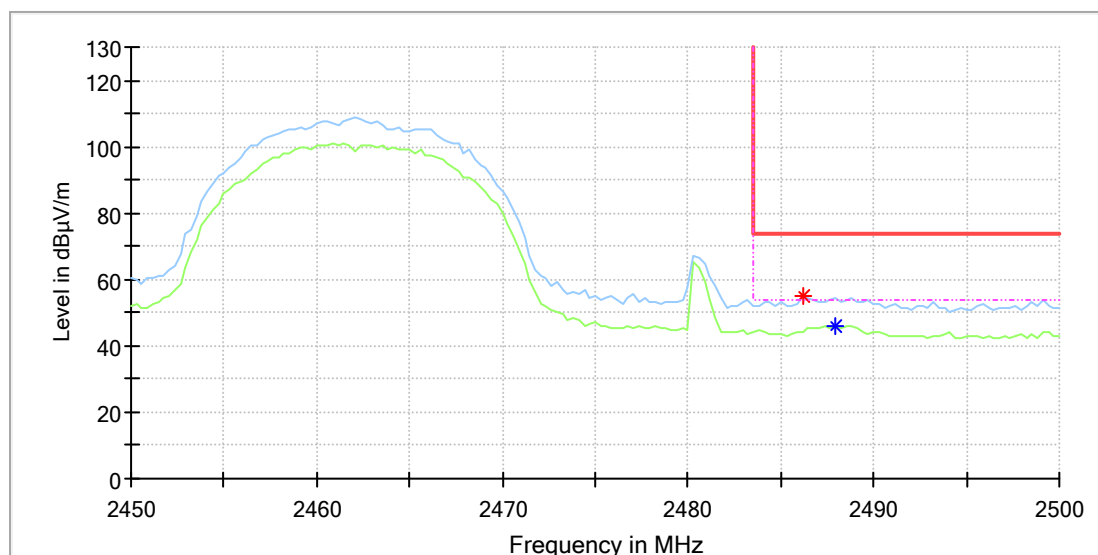
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.294118	---	45.54	54.00	8.46	150.0	V	343.0	8.5
2386.764706	53.41	---	74.00	20.59	150.0	V	343.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

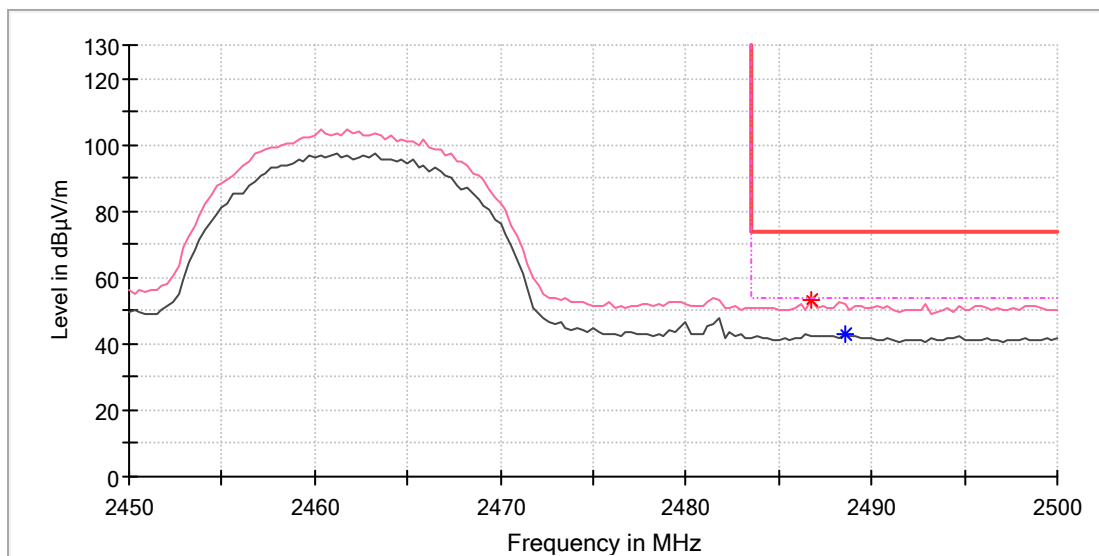
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.176471	55.23	---	74.00	18.77	150.0	H	228.0	9.0
2487.941177	---	45.91	54.00	8.09	150.0	H	103.0	9.0

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

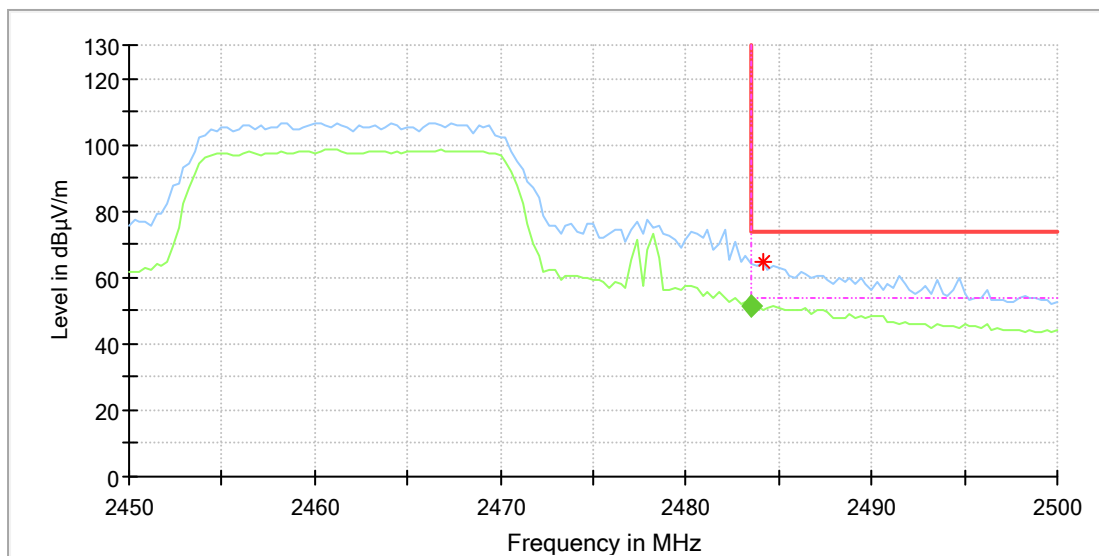
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.764706	53.18	---	74.00	20.82	150.0	V	92.0	9.0
2488.529412	---	43.05	54.00	10.95	150.0	V	320.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm		93.750 deg	93.750 dB/m

EUT Information

EUT Name: Honeywell
Model: TC321B-G
Test Mode: WIFI 2.4G_11g_Ch11
Order No/Sample No: 168560989/A004020373-002
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

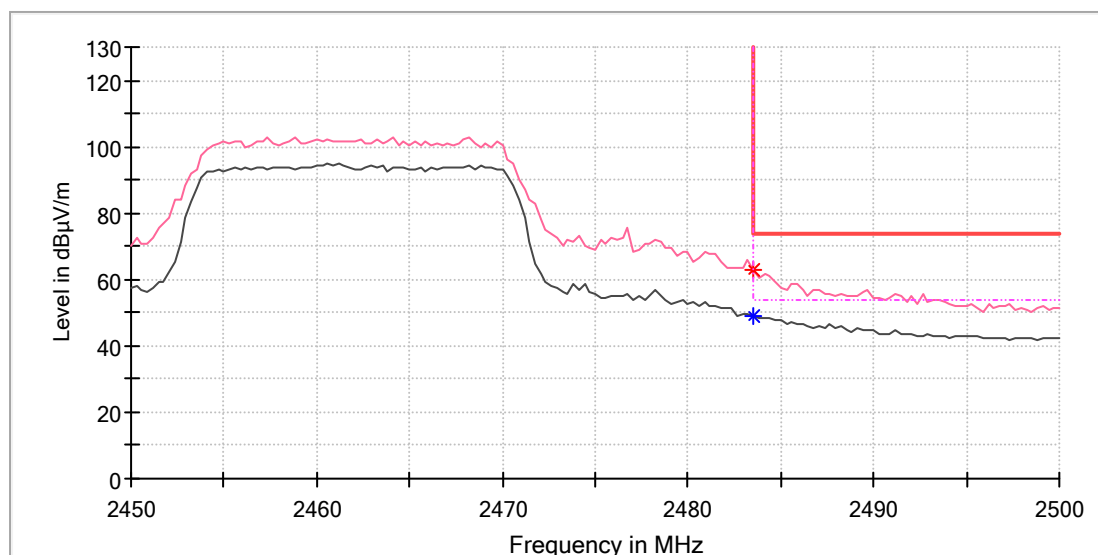
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	64.79	---	74.00	9.21	150.0	H	188.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	51.30	54.00	2.70	150.0	H	221.0	9.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

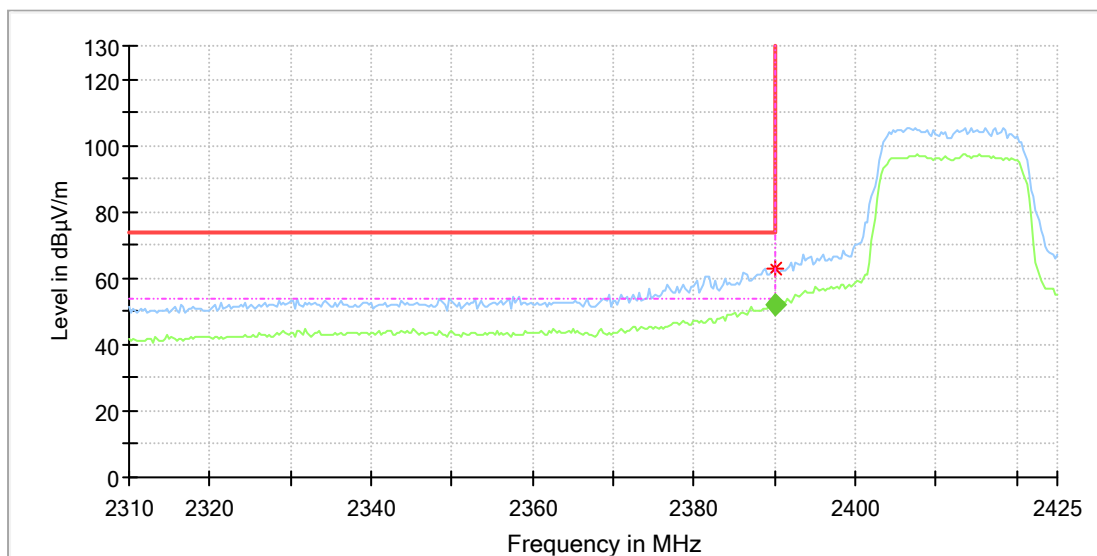
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	63.00	---	74.00	11.00	150.0	V	1.0	9.0
2483.529412	---	49.24	54.00	4.76	150.0	V	1.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0.0	100	V	135	0.0

EUT Information

EUT Name: Honeywell
Model: TC321B-G
Test Mode: WIFI 2.4G_11n20_Ch1
Order No/Sample No: 168560989/A004020373-002
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

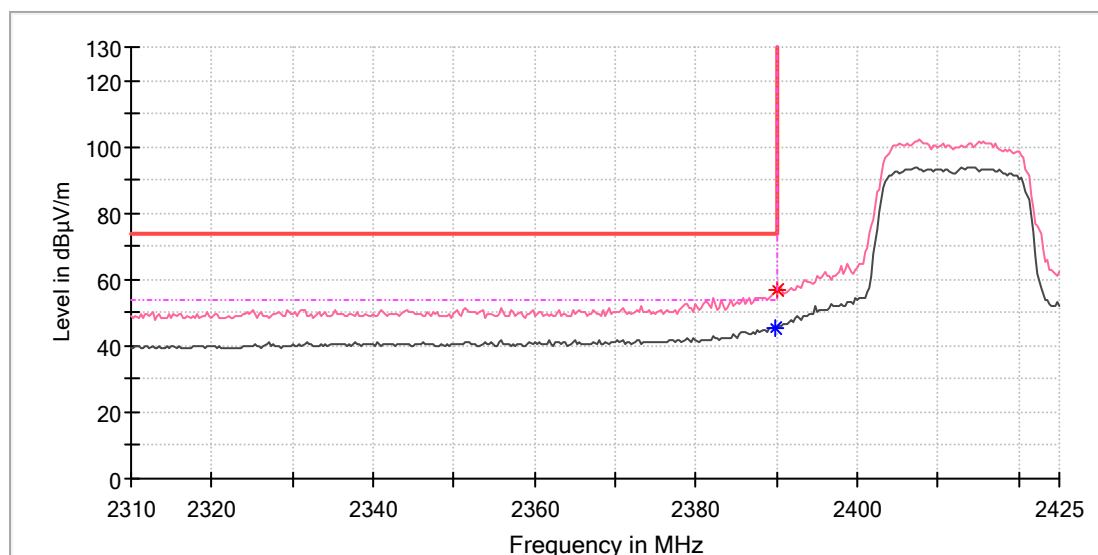
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	63.09	---	74.00	10.91	150.0	H	267.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	---	51.81	54.00	2.19	150.0	H	267.0	8.5

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

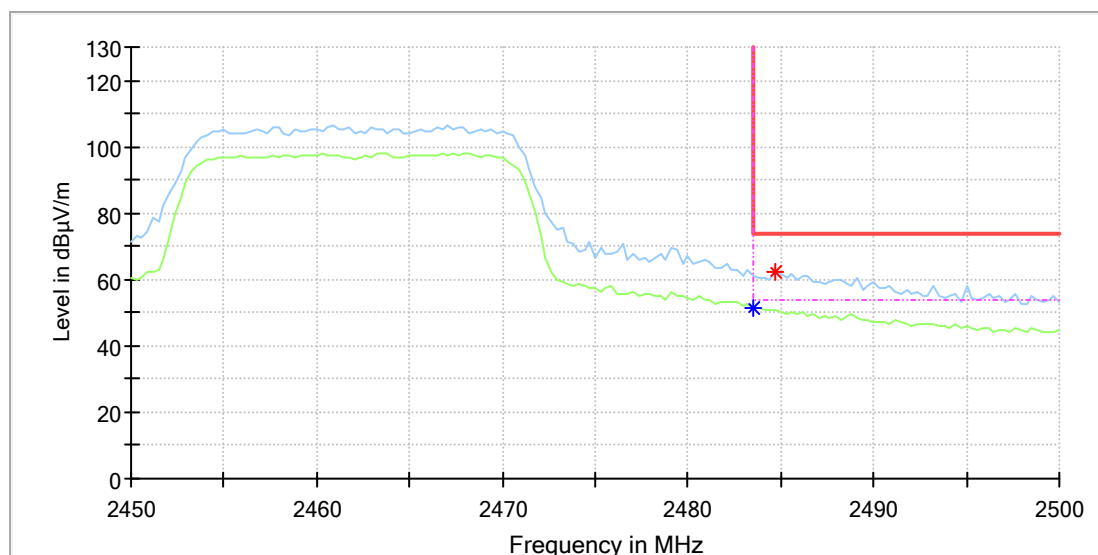
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.705882	---	45.65	54.00	8.35	150.0	V	213.0	8.5
2390.000000	56.77	---	74.00	17.23	150.0	V	14.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

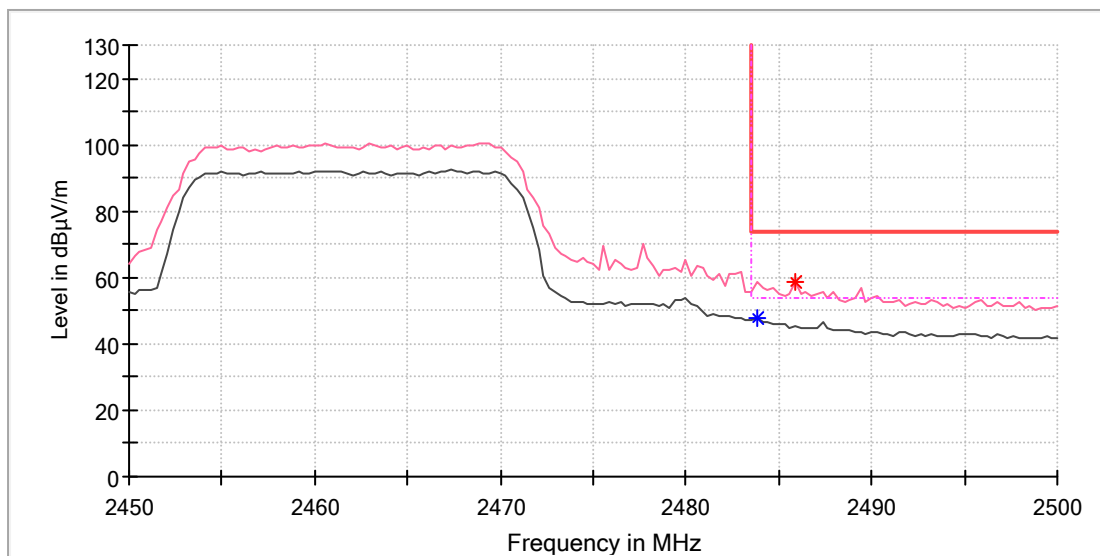
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	51.35	54.00	2.65	150.0	H	111.0	9.0
2484.705882	62.58	---	74.00	11.42	150.0	H	232.0	9.0

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

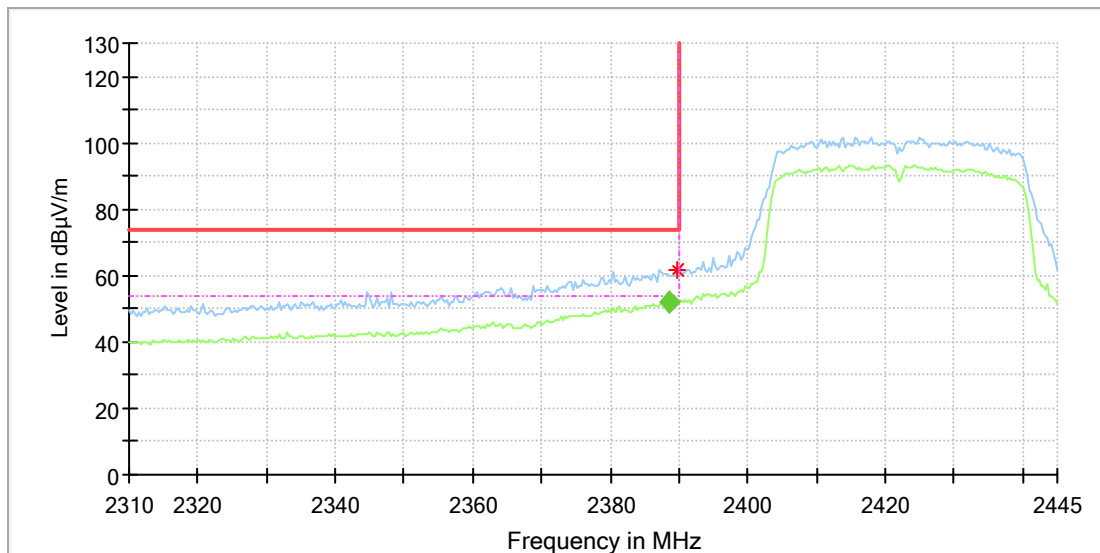
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	---	47.57	54.00	6.43	150.0	V	13.0	9.0
2485.882353	58.63	---	74.00	15.37	150.0	V	0.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name: Honeywell
Model: TC321B-G
Test Mode: WIFI 2.4G_11n40_Ch3
Order No/Sample No: 168560989/A004020373-002
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

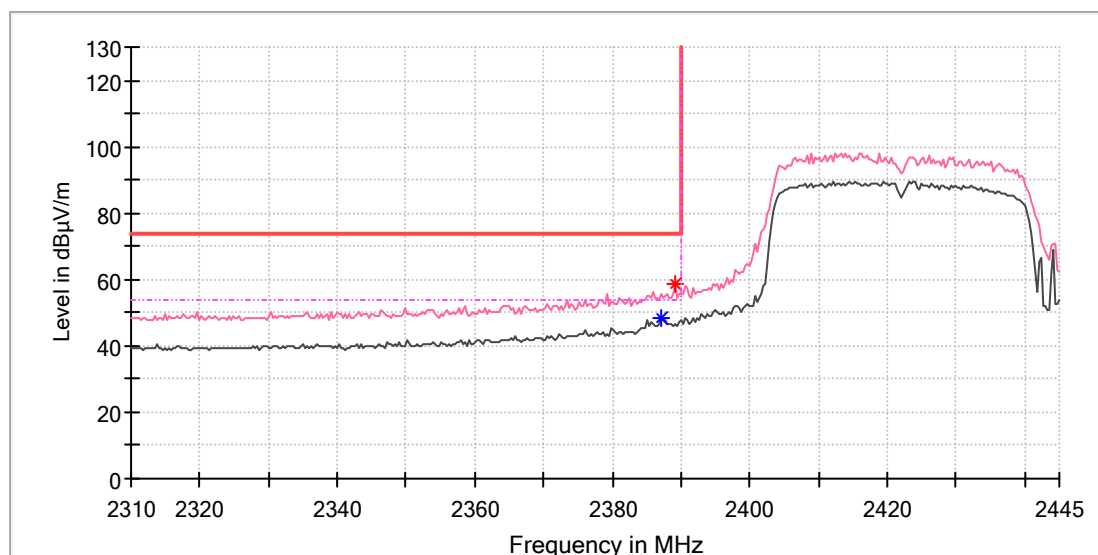
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.705882	61.93	---	74.00	12.07	150.0	H	272.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.529412	---	51.81	54.00	2.19	150.0	H	266.0	8.5

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

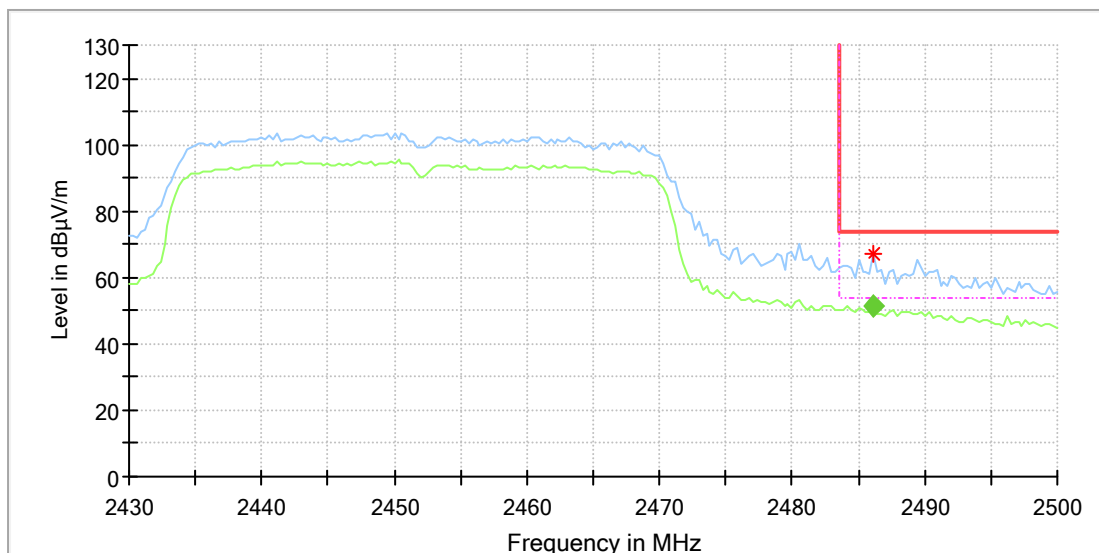
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.058824	---	48.15	54.00	5.85	150.0	V	10.0	8.5
2389.117647	58.78	---	74.00	15.23	150.0	V	10.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0.0	100	V	135	0.0

EUT Information

EUT Name: Honeywell
Model: TC321B-G
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168560989/A004020373-002
Test Voltage:: 120V/60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

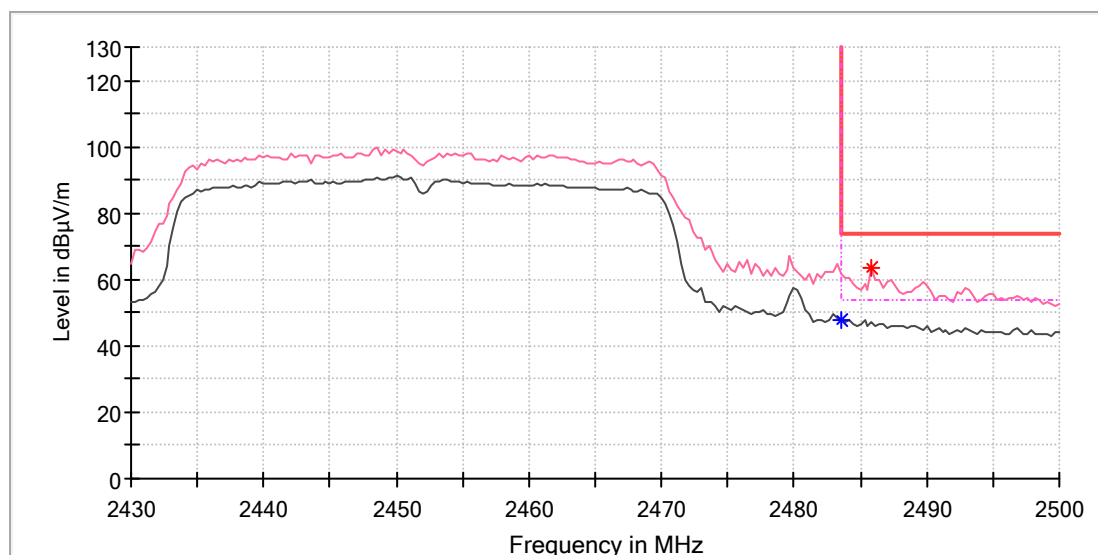
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.176471	66.84	---	74.00	7.16	150.0	H	110.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.176471	---	51.25	54.00	2.75	150.0	H	110.0	9.0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
2483.529412	---	48.04	54.00	5.96	150.0	V	20.0	9.0
2485.882353	63.27	---	74.00	10.73	150.0	V	0.0	9.0

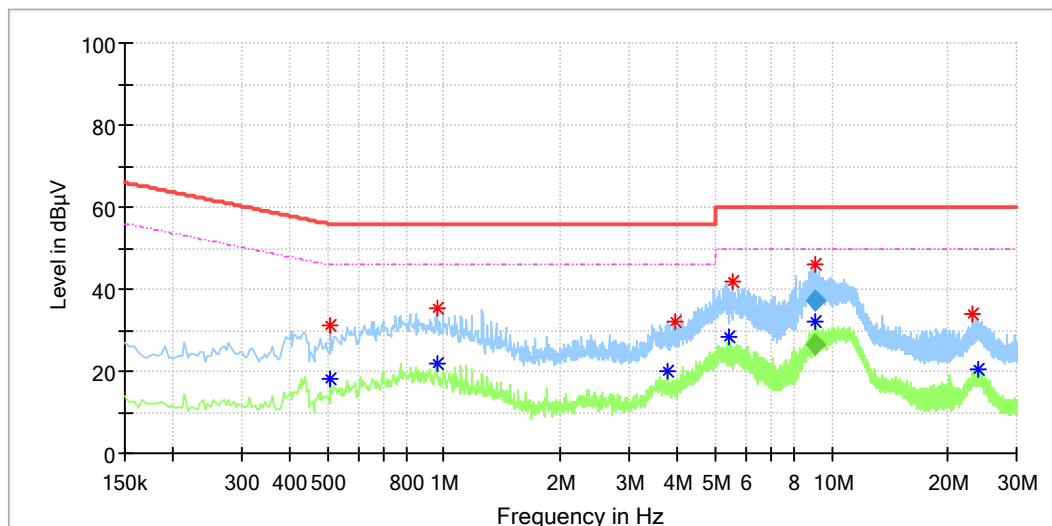
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0	100	V	135	0

APPENDIX B.3: CONDUCTED EMISSION ON AC MAINS

EUT Information

EUT Name: Thermostat
Order Number: 168560989 20(P01977462)
Model: TC321B-G
Test Mode: Normal working with BLE & Wi-Fi connecting
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Dawn Shen/Murphy Chen
Tem./Hum./Pressure: 24.5°C/52.3%/101kPa
Remark: SR 3



Critical Freqs

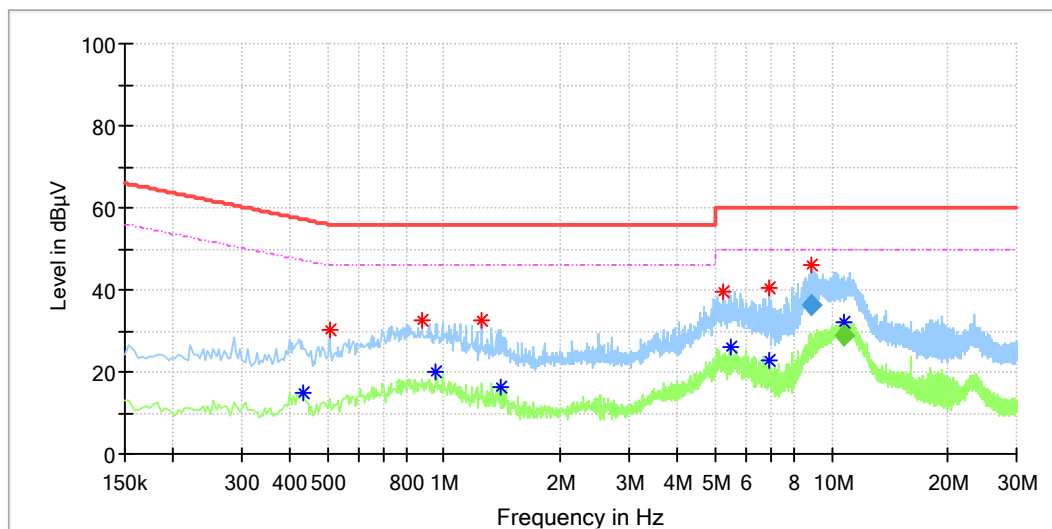
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.510	---	18.2	46.00	27.82	L1	9.9
0.510	31.2	---	56.00	24.78	L1	9.9
0.958	---	21.8	46.00	24.17	L1	9.9
0.958	35.2	---	56.00	20.79	L1	9.9
3.778	---	19.9	46.00	26.12	L1	10.1
3.930	31.9	---	56.00	24.09	L1	10.1
5.454	---	28.1	50.00	21.86	L1	10.2
5.526	41.6	---	60.00	18.36	L1	10.2
9.102	---	32.1	50.00	17.91	L1	10.2
9.111	46.1	---	60.00	13.92	L1	10.2
23.050	34.0	---	60.00	25.98	L1	10.1
23.882	---	20.5	50.00	29.50	L1	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
9.102	---	26.5	50.00	23.53	1000.0	9.0	L1	10.2
9.111	37.1	---	60.00	22.86	1000.0	9.0	L1	10.2

EUT Information

EUT Name: Thermostat
Order Number: 168560989 20(P01977462)
Model: TC321B-G
Test Mode: Normal working with BLE & Wi-Fi connecting
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Dawn Shen/Murphy Chen
Tem./Hum./Pressure: 24.5°C/52.3%/101kPa
Remark: SR 3



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.434	---	15.1	47.18	32.12	N	9.7
0.506	30.3	---	56.00	25.70	N	9.7
0.878	32.6	---	56.00	23.43	N	9.7
0.954	---	20.2	46.00	25.77	N	9.7
1.250	32.4	---	56.00	23.62	N	9.8
1.406	---	16.4	46.00	29.61	N	9.8
5.226	39.7	---	60.00	20.33	N	9.8
5.506	---	26.2	50.00	23.78	N	9.8
6.878	40.6	---	60.00	19.40	N	9.8
6.910	---	23.0	50.00	26.99	N	9.8
8.878	46.0	---	60.00	13.98	N	9.9
10.763	---	32.1	50.00	17.88	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
8.878	36.3	---	60.00	23.70	1000.0	9.0	N	9.9
10.763	---	29.1	50.00	20.94	1000.0	9.0	N	9.9

APPENDIX C: TEST RESULTS OF BLUETOOTH (LOW ENERGY)

APPENDIX C: TEST RESULTS OF BLUETOOTH (LOW ENERGY)	1
APPENDIX C.1: RADIATED SPURIOUS EMISSIONS	2
APPENDIX C.2: RADIATED EMISSIONS IN RESTRICTED BANDS	22
APPENDIX C.3: CONDUCTED EMISSION ON AC MAINS	30

APPENDIX C.1: RADIATED SPURIOUS EMISSIONS

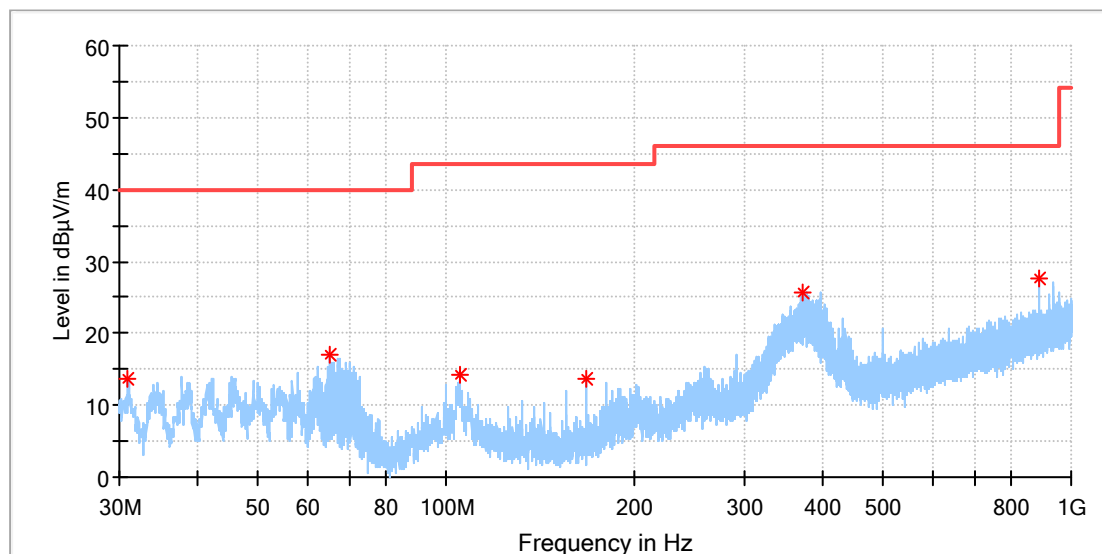
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

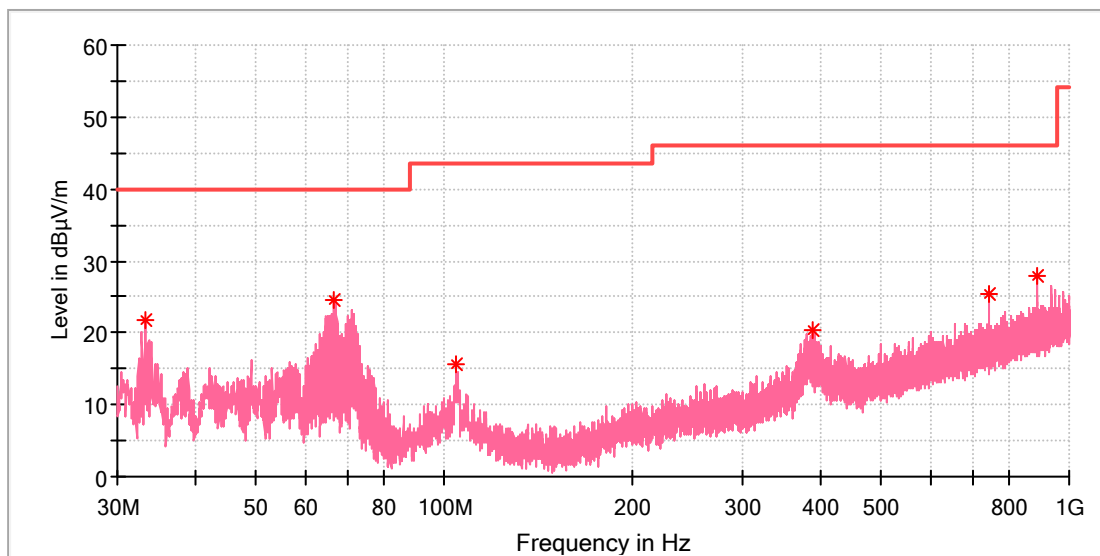
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.007308	13.64	40.00	26.36	100.0	H	118.0	-22.9
65.255769	17.10	40.00	22.90	100.0	H	323.0	-20.3
105.324231	14.15	43.50	29.35	100.0	H	278.0	-18.9
167.926539	13.73	43.50	29.77	100.0	H	351.0	-21.4
372.596539	25.79	46.00	20.21	100.0	H	312.0	-14.4
890.986923	27.53	46.00	18.47	100.0	H	157.0	-4.9

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
33.245769	21.78	40.00	18.22	100.0	V	200.0	-22.5
66.524231	24.60	40.00	15.40	100.0	V	356.0	-20.8
104.727308	15.55	43.50	27.95	100.0	V	172.0	-18.9
389.347692	20.32	46.00	25.68	100.0	V	118.0	-14.0
742.502308	25.31	46.00	20.69	100.0	V	295.0	-7.2
890.986923	27.83	46.00	18.17	100.0	V	307.0	-4.9

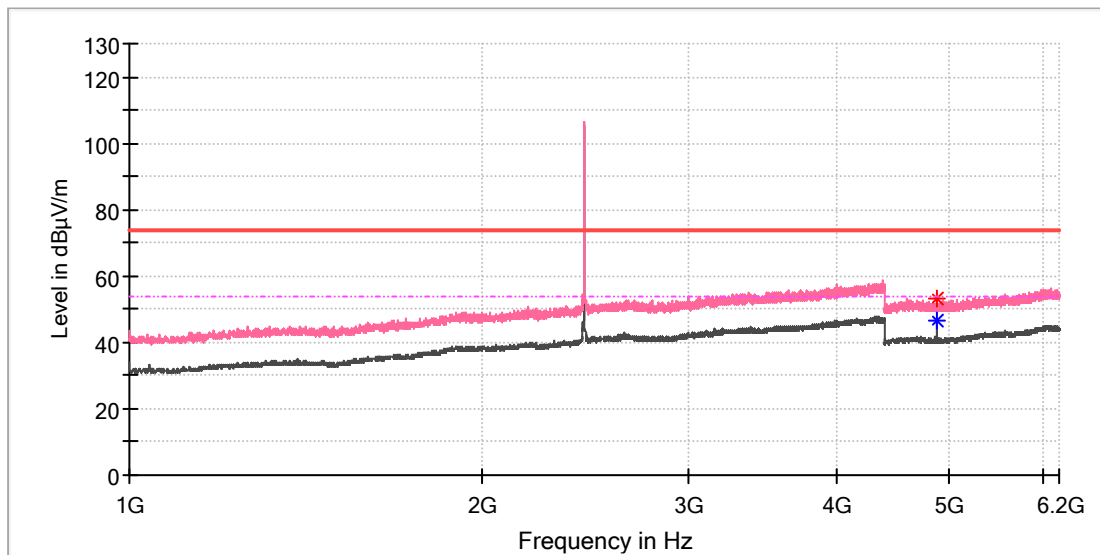
Final_Result

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)
93.75	122.0	118.0	120.0	2.0	30.0	0	0	0

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

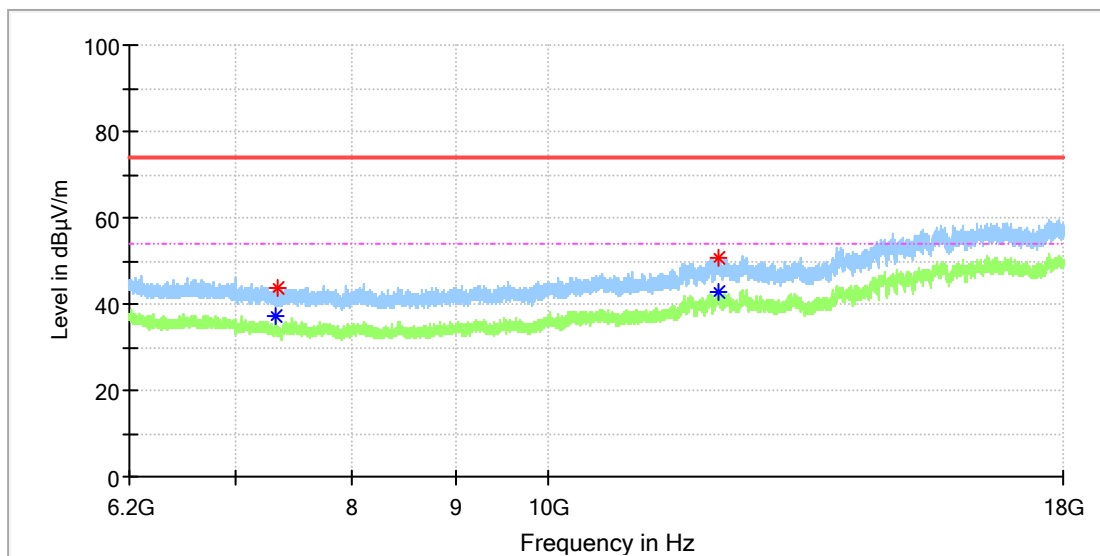
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	53.07	---	74.00	20.93	150.0	V	260.0	13.3
4880.000000	---	46.75	54.00	7.25	150.0	V	260.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm	93.750	93.750	93.750

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
7319.525000	---	37.24	54.00	16.76	150.0	H	302.0	8.2
7344.108333	43.70	---	74.00	30.30	150.0	H	20.0	8.1
12138.841667	---	42.61	54.00	11.39	150.0	H	2.0	16.4
12141.791667	50.92	---	74.00	23.08	150.0	H	54.0	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)
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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	30.0	HH	135	0.0

EUT Information

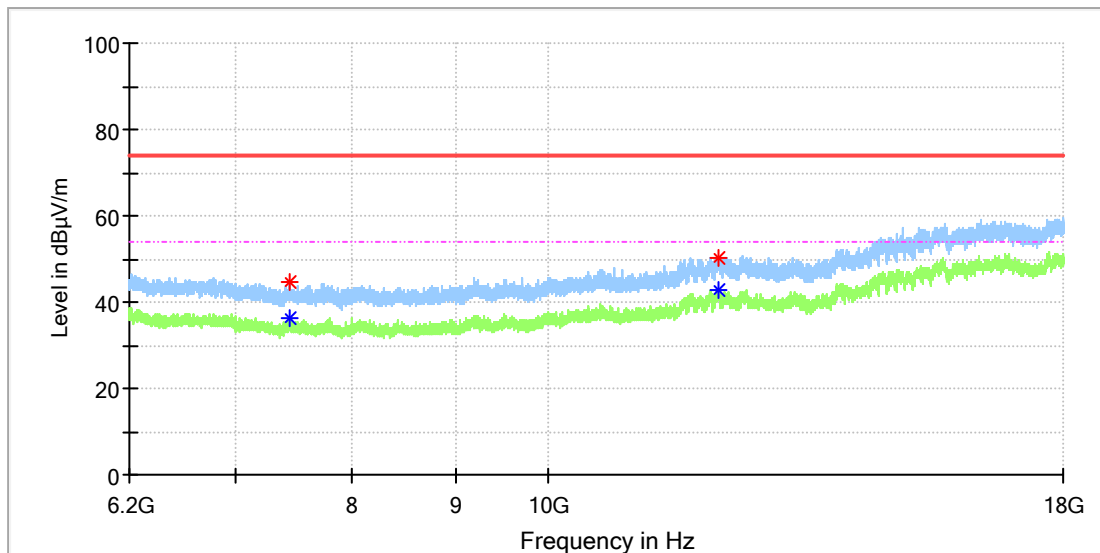
EUT Information

EUT Information

EUT Information

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
7439.983333	---	36.34	54.00	17.66	150.0	H	213.0	8.4
7440.475000	44.68	---	74.00	29.32	150.0	H	1.0	8.4
12131.958333	---	42.93	54.00	11.07	150.0	H	213.0	16.3
12153.100000	50.11	---	74.00	23.89	150.0	H	41.0	16.6

Final_Result

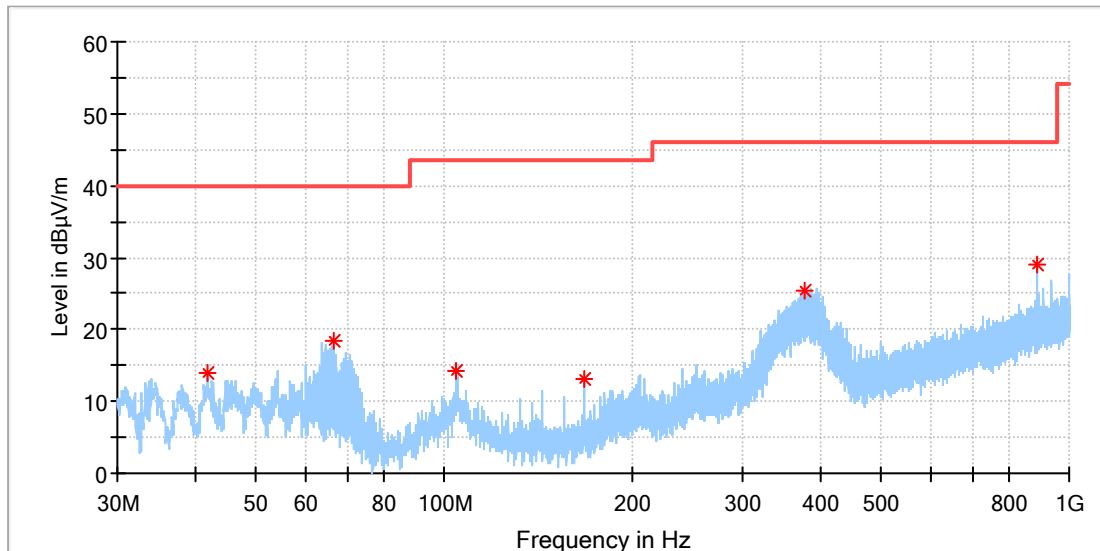
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

Co-location (Wi-Fi+BLE)

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G+BLE+60G Radar
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

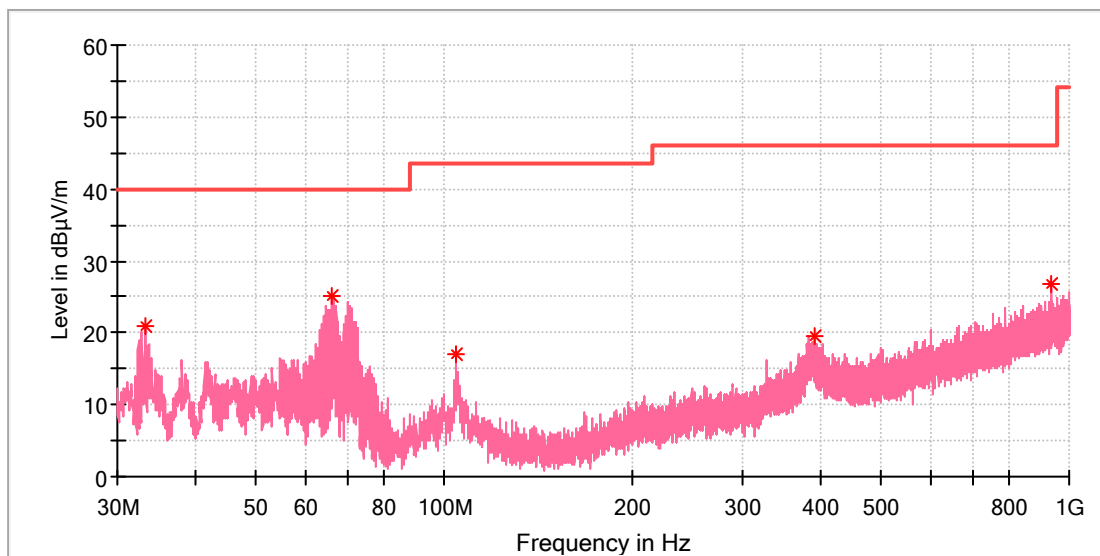
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.901154	13.91	40.00	26.09	100.0	H	4.0	-19.7
66.486923	18.49	40.00	21.51	100.0	H	317.0	-20.8
104.690000	14.27	43.50	29.23	100.0	H	108.0	-18.9
167.926539	12.99	43.50	30.51	100.0	H	359.0	-21.4
378.640385	25.45	46.00	20.55	100.0	H	98.0	-14.3
890.986923	29.02	46.00	16.98	100.0	H	0.0	-4.9

Final_Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G+BLE+60G Radar
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
33.245769	21.00	40.00	19.00	100.0	V	237.0	-22.5
66.076539	25.21	40.00	14.79	100.0	V	357.0	-20.6
104.615385	17.15	43.50	26.35	100.0	V	324.0	-18.9
392.630769	19.59	46.00	26.41	100.0	V	335.0	-14.0
936.950000	26.66	46.00	19.34	100.0	V	315.0	-4.4

Final_Result

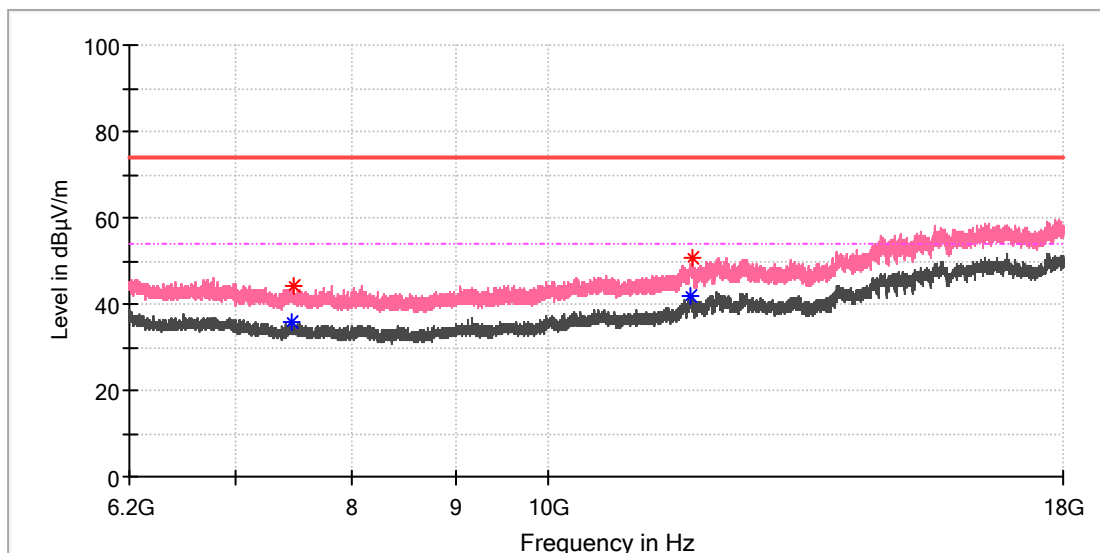
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Information

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	WIFI 2.4G+BLE+60G Radar
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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)
7462.108333	---	35.69	54.00	18.31	150.0	V	5.0	8.6
7486.200000	44.04	---	74.00	29.96	150.0	V	5.0	8.7
11775.991667	---	41.99	54.00	12.01	150.0	V	83.0	15.2
11802.050000	50.51	---	74.00	23.49	150.0	V	5.0	14.8

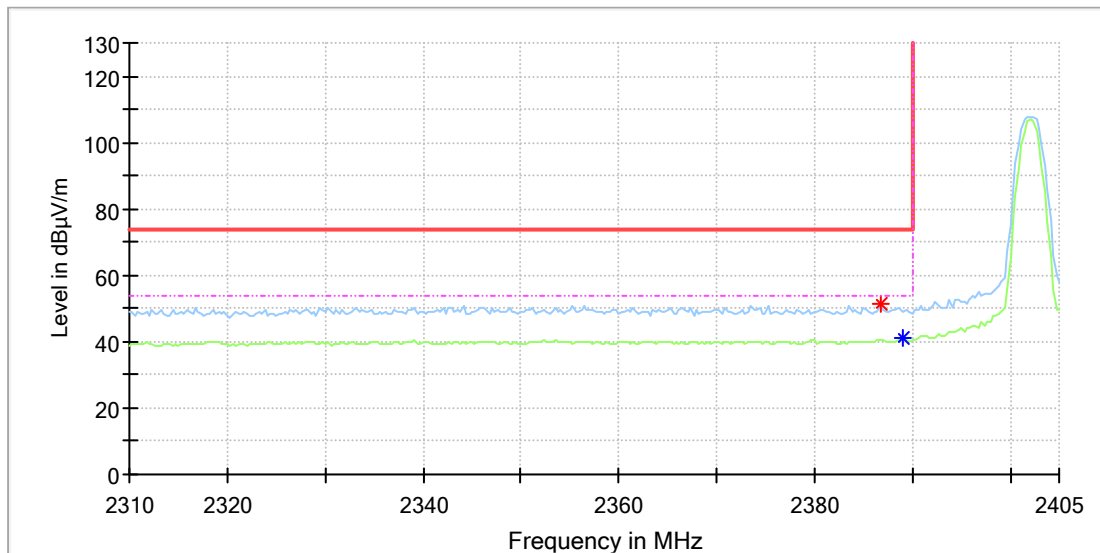
Final Result

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 C.2: RADIATED EMISSIONS IN RESTRICTED BANDS

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

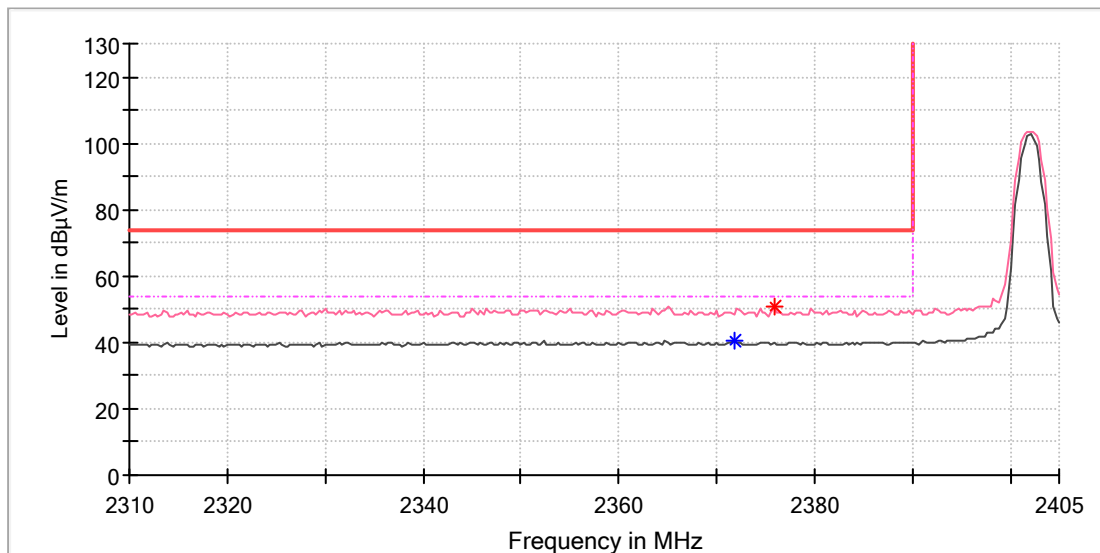
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.764706	51.18	---	74.00	22.82	150.0	H	112.0	8.5
2389.117647	---	41.10	54.00	12.90	150.0	H	97.0	8.5

Final Result

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

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

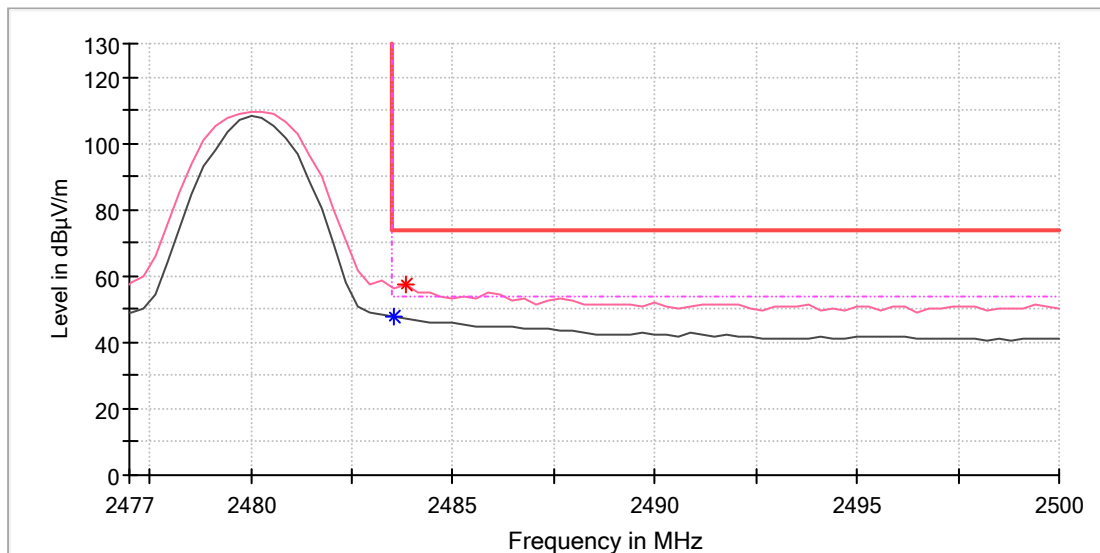
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2371.764706	---	40.47	54.00	13.53	150.0	V	191.0	8.5
2375.882353	50.64	---	74.00	23.36	150.0	V	286.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm	93.750	93.750	93.750

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

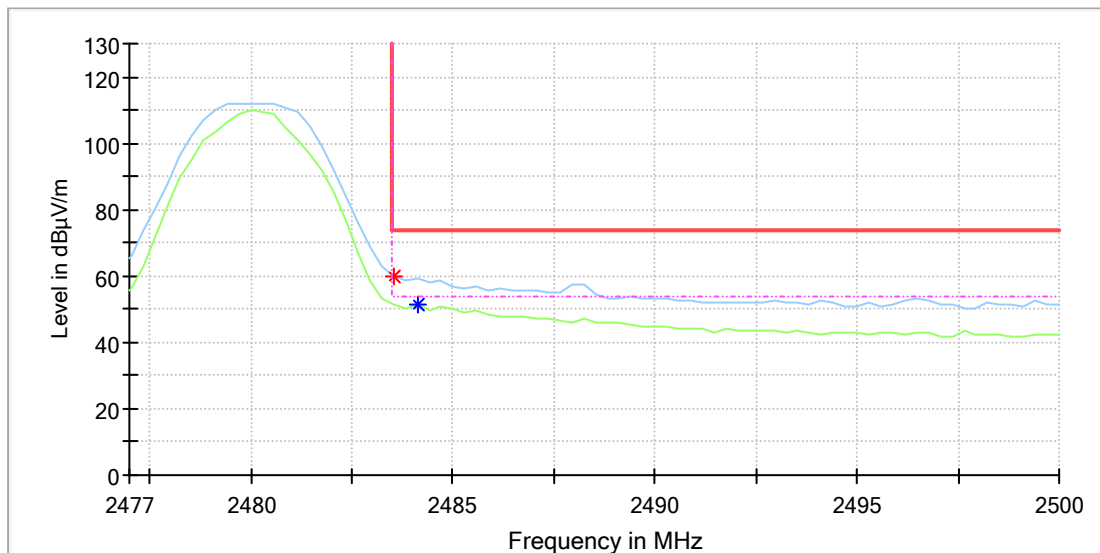
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	47.52	54.00	6.48	150.0	V	10.0	9.0
2483.823529	57.66	---	74.00	16.34	150.0	V	0.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm	93.750	93.750	93.750

EUT Information

EUT Name:	Honeywell
Model:	TC321B-G
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168560989/A004020373-002
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

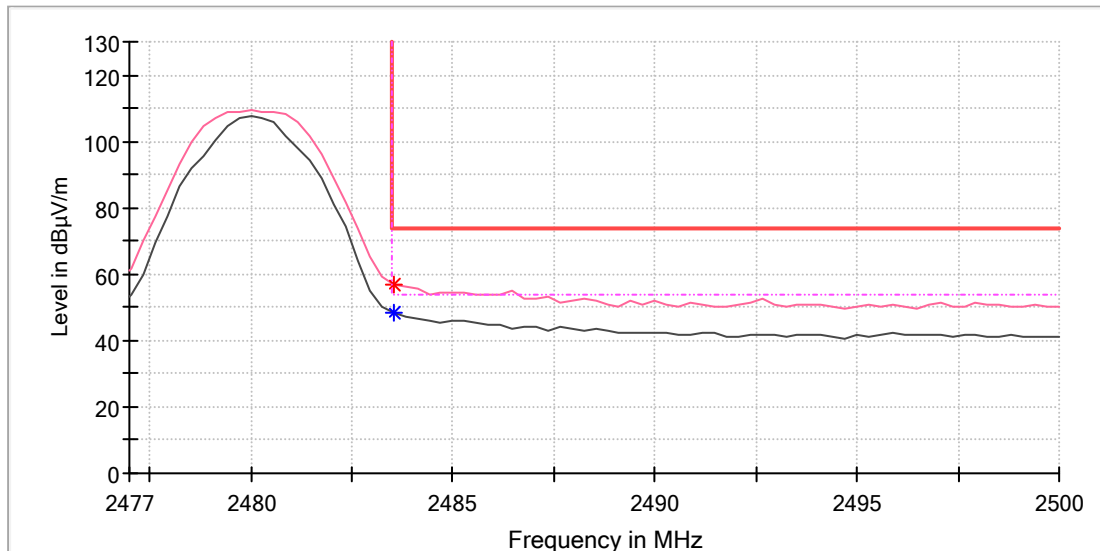


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	60.07	---	74.00	13.93	150.0	H	109.0	9.0
2484.117647	---	51.55	54.00	2.45	150.0	H	109.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
900-960 MHz	90-120 dBμV/m	80-110 dBμV/m	120-150 dBμV/m	-30-40 dB	300-500 cm	N/A	N/A	N/A



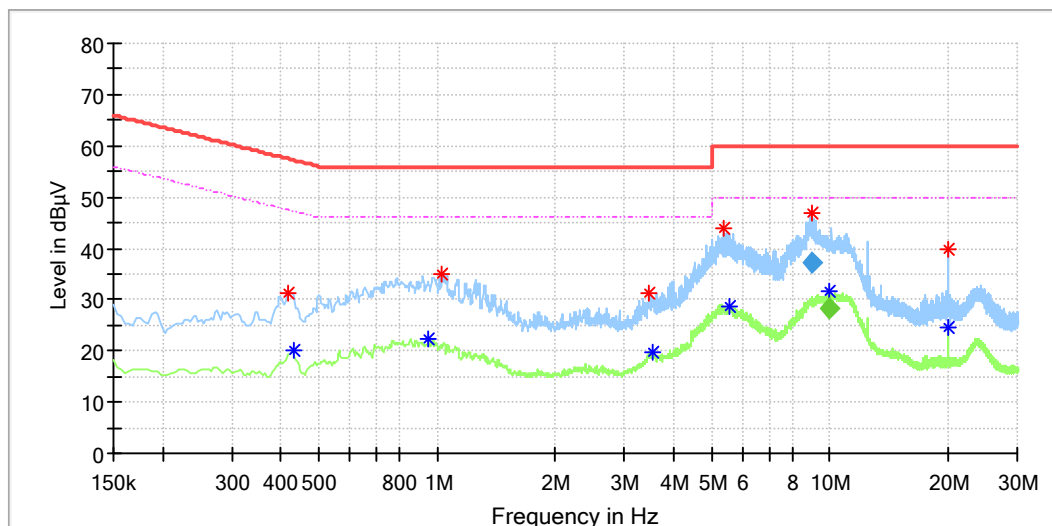
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	57.07	---	74.00	16.93	150.0	V	359.0	9.0
2483.529412	---	48.55	54.00	5.45	150.0	V	359.0	9.0

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	120.000 dBμV/m	110.000 dBμV/m	120.000 dBμV/m	0.000 dB	100.000 cm	000.000	000.000	000.000

APPENDIX C.3: CONDUCTED EMISSION ON AC MAINS

EUT Information

EUT Name:	Thermostat
Order Number:	168560989 20(P01977462)
Model:	TC321B-G
Test Mode:	Normal working with BLE & Wi-Fi connecting
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Dawn Shen/Murphy Chen
Tem./Hum./Pressure:	24.5°C/52.3%/101kPa
Remark:	SR 3



Critical Freqs

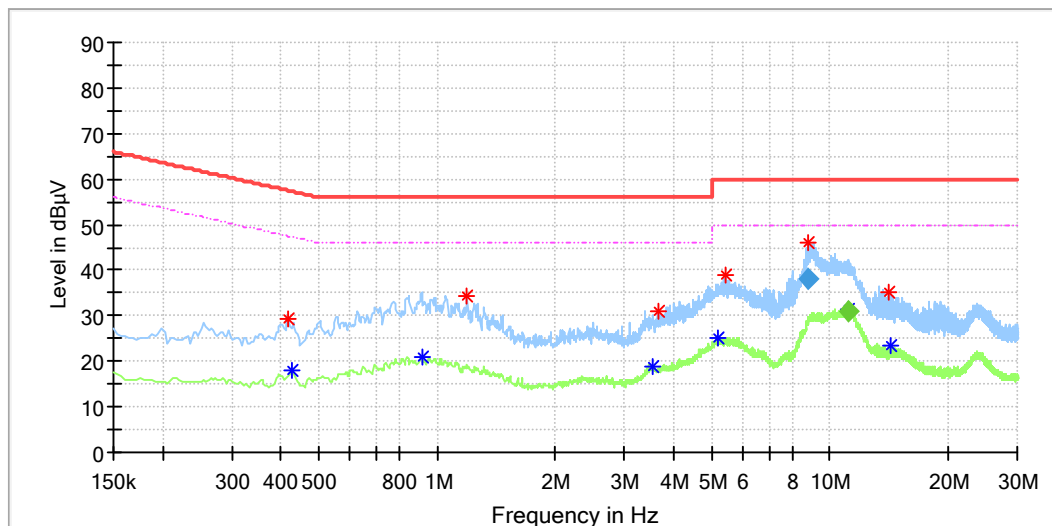
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.419	31.3	---	57.48	26.18	L1	9.9
0.430	---	20.2	47.26	27.10	L1	9.9
0.952	---	22.3	46.00	23.72	L1	9.9
1.031	35.1	---	56.00	20.91	L1	10.0
3.471	31.1	---	56.00	24.88	L1	10.1
3.542	---	19.9	46.00	26.14	L1	10.1
5.355	43.9	---	60.00	16.10	L1	10.2
5.557	---	28.6	50.00	21.38	L1	10.2
8.971	46.8	---	60.00	13.23	L1	10.2
9.996	---	31.5	50.00	18.47	L1	10.2
20.000	---	24.6	50.00	25.37	L1	10.2
20.000	39.9	---	60.00	20.12	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
8.971	37.4	---	60.00	22.62	1000.0	9.0	L1	10.2
9.996	---	28.3	50.00	21.68	1000.0	9.0	L1	10.2

EUT Information

EUT Name:	Thermostat
Order Number:	168560989 20(P01977462)
Model:	TC321B-G
Test Mode:	Normal working with BLE & Wi-Fi connecting
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Dawn Shen/Murphy Chen
Tem./Hum./Pressure:	24.5°C/52.3%/101kPa
Remark:	SR 3



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.419	29.2	---	57.48	28.26	N	9.7
0.426	---	18.1	47.33	29.24	N	9.7
0.915	---	21.0	46.00	24.95	N	9.7
1.191	34.4	---	56.00	21.57	N	9.8
3.549	---	18.9	46.00	27.11	N	9.8
3.642	30.8	---	56.00	25.17	N	9.8
5.213	---	25.3	50.00	24.68	N	9.8
5.448	38.9	---	60.00	21.08	N	9.8
8.844	46.2	---	60.00	13.83	N	9.9
11.108	---	31.5	50.00	18.52	N	9.9
14.049	35.1	---	60.00	24.94	N	9.9
14.280	---	23.5	50.00	26.51	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
8.844	38.0	---	60.00	21.98	1000.0	9.0	N	9.9
11.108	---	31.2	50.00	18.84	1000.0	9.0	N	9.9