

Prüfbericht-Nr.: Test report no.:	CN22HYZD 003	Auftrags-Nr.: Order no.:	168377514	Seite 1 von 25 Page 1 of 25
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-06-13	
Auftraggeber: Client:	ZTE Corporation ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China			
Prüfgegenstand: Test item:	Home Gateway			
Bezeichnung / Typ-Nr.: Identification / Type no.:	E3330 (Trademark: ZTE)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart B, Class B Section 15.107 CFR47 FCC Part 15: Subpart B, Class B Section 15.109			
Wareneingangsdatum: Date of sample receipt:	2022-06-22	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A003283346 001			
Prüfzeitraum: Testing period:	2022-07-02 - 2022-07-29			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2022-09-05 Signed by: Bell Hu		Ausstellungsdatum: Issue date:	2022-09-05 Signed by: Lin Lin
Stellung / Position:	Project Manager		Stellung / Position:	Reviewer
Sonstiges / Other:	FCC ID: Q78-E3330			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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. This test report only relates to the a. m. 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.				

V05

Prüfbericht - Nr.: CN22HYZD 003
Test Report No.:

Seite 2 von 25
Page 2 of 25

Test Summary

5.1.1 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

5.1.2 RADIATED EMISSIONS

RESULT: Pass

Table of Contents

TEST SUMMARY	2
1 GENERAL REMARKS	4
1.1 COMPLEMENTARY MATERIALS	4
2 TEST SITES	5
2.1 TEST FACILITIES	5
2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3 TRACEABILITY	5
2.4 CALIBRATION	5
2.5 MEASUREMENT UNCERTAINTY.....	6
2.6 LOCATION OF ORIGINAL DATA.....	6
2.7 STATUS OF FACILITY USED FOR TESTING.....	6
3 GENERAL PRODUCT INFORMATION	7
3.1 PRODUCT FUNCTION AND INTENDED USE.....	7
3.2 RATINGS AND SYSTEM DETAILS	7
3.3 INDEPENDENT OPERATION MODES	8
3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS	8
3.5 SUBMITTED DOCUMENTS.....	8
4 TEST SET-UP AND OPERATION MODES	9
4.1 PRINCIPLE OF CONFIGURATION SELECTION	9
4.2 TEST OPERATION AND TEST SOFTWARE.....	9
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	9
4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	9
4.5 TEST SETUP DIAGRAM	10
5 TEST RESULTS	11
5.1.1 Conducted Emission on AC Mains.....	11
5.1.2 Radiated Emissions.....	16
6 PHOTOGRAPHS OF THE TEST SET-UP	25
7 LIST OF TABLES.....	25

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 FCC 15B

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Accreditation Designation No.: CN1260

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2023-02-27
Artificial Mains Network	R&S	ENV216	101445	2023-02-27
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Radiated Emission (10m chamber)				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
3m SAC	ETS-Lindgren	SAC3	CT001632-Q1362	2024-04-26
EMI Test Receiver	R&S	ESR7	102111	2022-12-01
Horn Antenna	R&S	HF907	102706	2023-08-08
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2023-08-01
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2023-08-08
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2023-08-08
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
Radiated Emission (10m SAC), 30MHz to 1000MHz	± 4.66 dB
Radiated Emission (10m SAC), above 1000MHz	± 4.35 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 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 No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. 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 Home Gateway which supports 2.4GHz Wi-Fi 802.11 b/g/n/ax and 5GHz Wi-Fi 802.11a/n/ac/ax wireless technology.

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:	Home Gateway
Type Designation:	E3330
Trademark:	ZTE
FCC ID:	Q78-E3330
Operating Voltage:	DC 12.0V/1.5A input via power adapter
Testing Voltage:	AC 120V, 60Hz
Technical Specification of Wi-Fi 802.11 b/g/n/ax	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20)/ax(HE20) 2422 - 2452 MHz for 802.11n(HT40)/ax(HE40)
Type of Modulation:	802.11b: CCK, DQPSK, DBPSK 802.11g/n : BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 6 4QAM, 256QAM, 1024QAM
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0-MCS15 for 802.11n(HT20/40) MCS0-MCS11 for 802.11ax(HE20/40)
Channel Number:	11 channels for 802.11b/g/n(HT20)/ax(HE20) 7 channels for 802.11n(HT40)/ax(HE40)
Antenna Type:	Integral Antenna
Number of Antenna:	2
Antenna Gain:	5.0 dBi Max
Technical Specification of Wi-Fi 802.11 a/n/ac/ax	
Operating Frequency:	5180-5320MHz, 5500-5720MHz, 5745-5825MHz
Type of Modulation:	802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Operating Frequency / Protocol:	5180-5320MHz, 802.11 a/n20/n40/ac20/ac40/ac80/ac160/ ax20/ax40/ax80/ax160 5500-5700MHz, 802.11 a/n20/n40/ac20/ac40/ac80/ac160/ ax20/ax40/ax80/ax160 5745-5825MHz: 802.11 a/n20/n40/ac20/ac40/ac80/ ax20/ax40/ax80
Antenna Type:	Integral Antenna
Number of Antenna:	4
Antenna Gain :	5.0 dBi max

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Normal operation with Lan linked (LAN Ports data transfer)
- B. On, Normal operation with Wi-Fi linked (2.4GHz Wi-Fi link, 5GHz Wi-Fi link)
 - B.1: 2.4GHz Wi-Fi link
 - B.2: 5GHz Wi-Fi link
 - B.3: 2.4GHz & 5GHz Wi-Fi link

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

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

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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 C63.4: 2014.

According to clause 3.1, all tests were performed on model E3330 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Portable Laptop 1	ThinkPad T480	Lenovo	10Q67059
Portable Laptop 2	ThinkPad X280	Lenovo	SL10P97711
AC/DC adapter	MN018G-E120150	Xiamen Castec	Input 100-240V AC, 50/60Hz 0.45A Max; Output 12V 1.5A 18W Max

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)

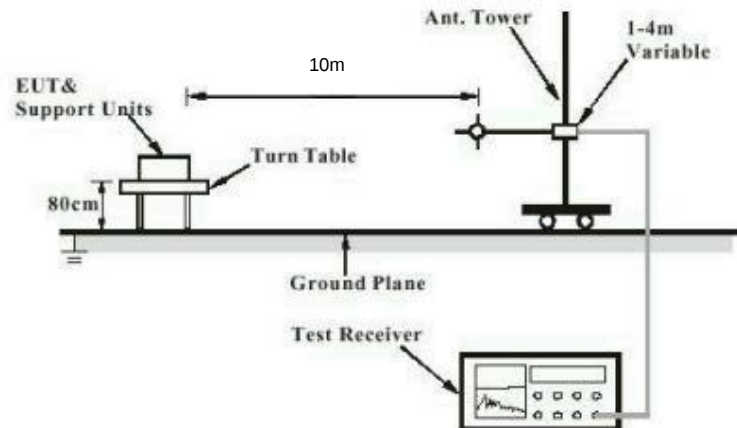


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

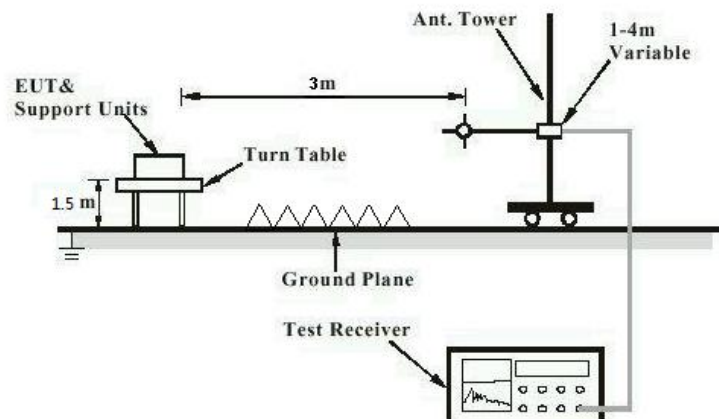
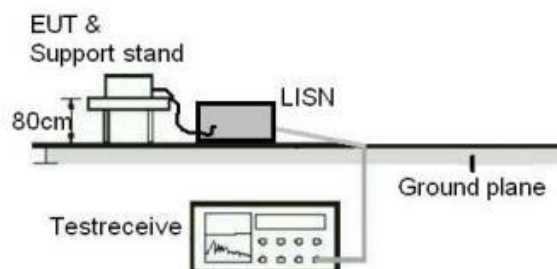


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1.1 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

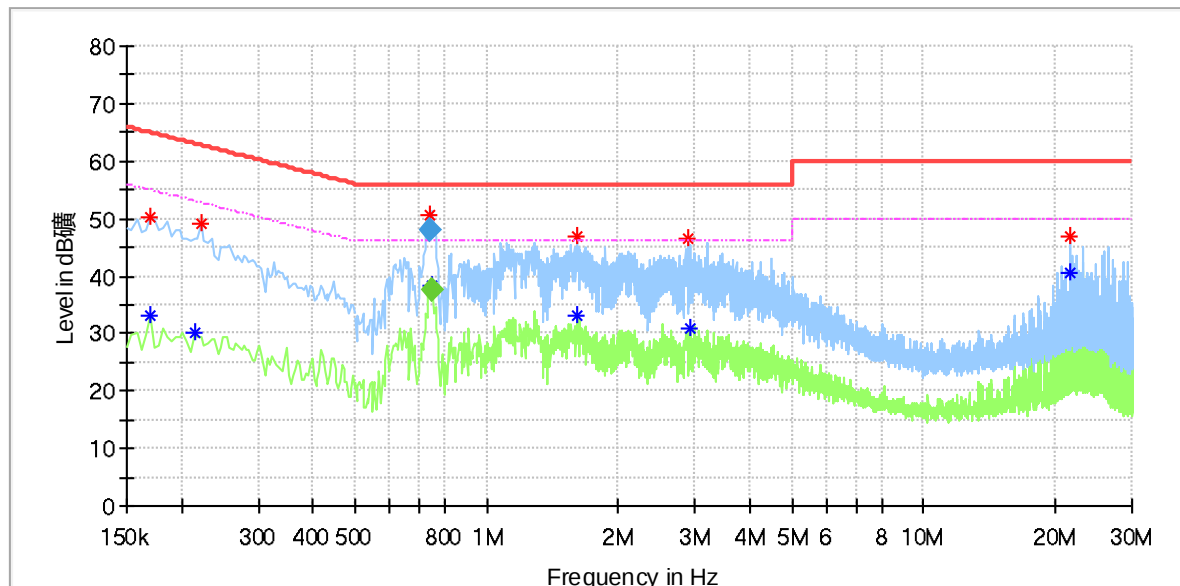
Test standard	: FCC Part 15.107(a)
Basic standard	: ANSI C63.4:2014
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.107(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-07-21
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Earthing	: Not connected
Ambient temperature	: 23.1 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: A
Test Voltage: AC120V/60Hz
Test By/Review By: Steve Lan/Gary Chen
Test Standard: FCC Part 15B
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: SR1



Critical_Freqs

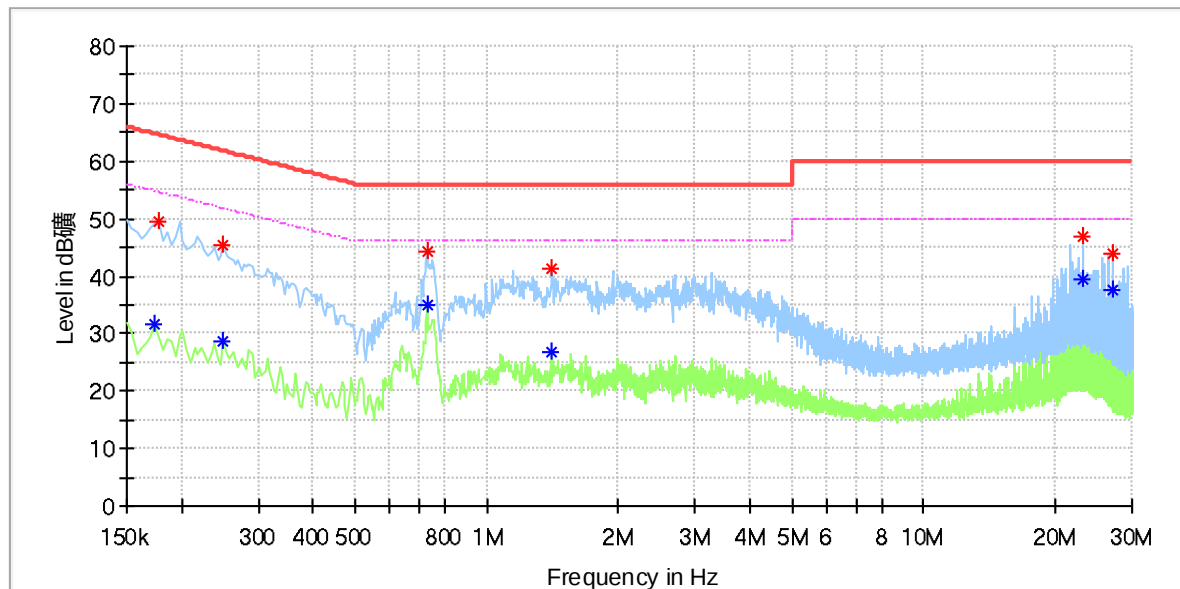
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170000	---	33.15	54.96	21.81	L1	9.6
0.170000	50.06	---	64.96	14.90	L1	9.6
0.214000	---	30.21	53.05	22.84	L1	9.6
0.222000	48.95	---	62.74	13.80	L1	9.6
0.738500	50.59	---	56.00	5.41	L1	9.7
0.746500	---	38.17	46.00	7.83	L1	9.7
1.608000	46.99	---	56.00	9.01	L1	9.8
1.608000	---	33.07	46.00	12.93	L1	9.8
2.896000	46.61	---	56.00	9.39	L1	9.9
2.932000	---	30.79	46.00	15.21	L1	9.9
21.664000	46.72	---	60.00	13.28	L1	10.3
21.664000	---	40.45	50.00	9.55	L1	10.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.738500	48.09	---	56.00	7.91	1000.0	9.000	L1	9.7
0.746500	---	37.44	46.00	8.56	1000.0	9.000	L1	9.7

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: A
Test Voltage: AC120V/60Hz
Test By/Review By: Steve Lan/Gary Chen
Test Standard: FCC Part 15B
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: SR1

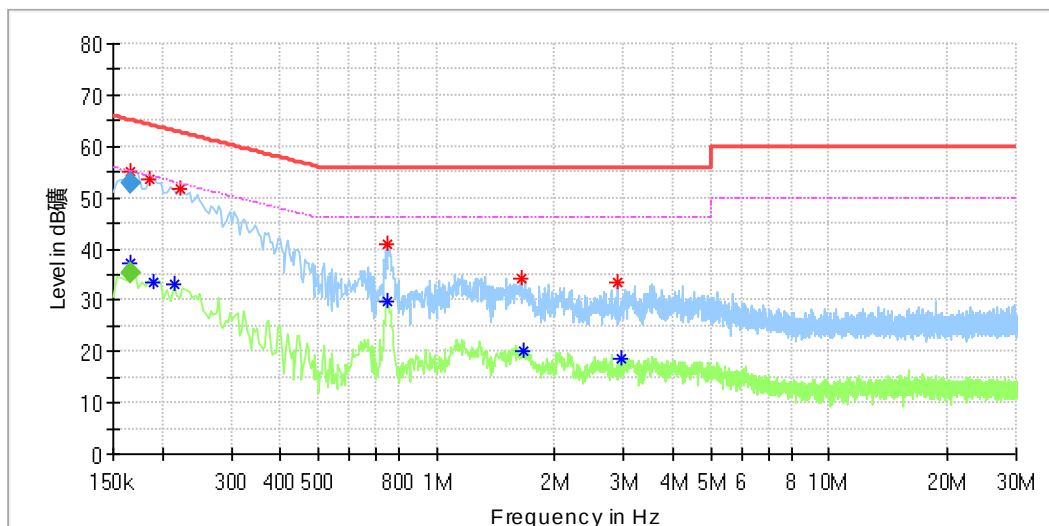


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.174000	---	31.67	54.77	23.09	N	9.6
0.178000	49.51	---	64.58	15.07	N	9.6
0.250000	---	28.72	51.76	23.03	N	9.6
0.250000	45.56	---	61.76	16.20	N	9.6
0.732000	44.11	---	56.00	11.89	N	9.7
0.732000	---	35.10	46.00	10.90	N	9.7
1.408000	41.26	---	56.00	14.74	N	9.7
1.412000	---	26.67	46.00	19.33	N	9.7
23.128000	47.02	---	60.00	12.98	N	10.5
23.128000	---	39.40	50.00	10.60	N	10.5
27.160000	---	37.50	50.00	12.50	N	10.5
27.160000	43.88	---	60.00	16.12	N	10.5

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test mode: B
Test Voltage: AC120V/60Hz
Test By:/Review By: Steve Lan/Gary Chen
Test Standard: FCC Part 15B
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: SR1



Critical_Freqs

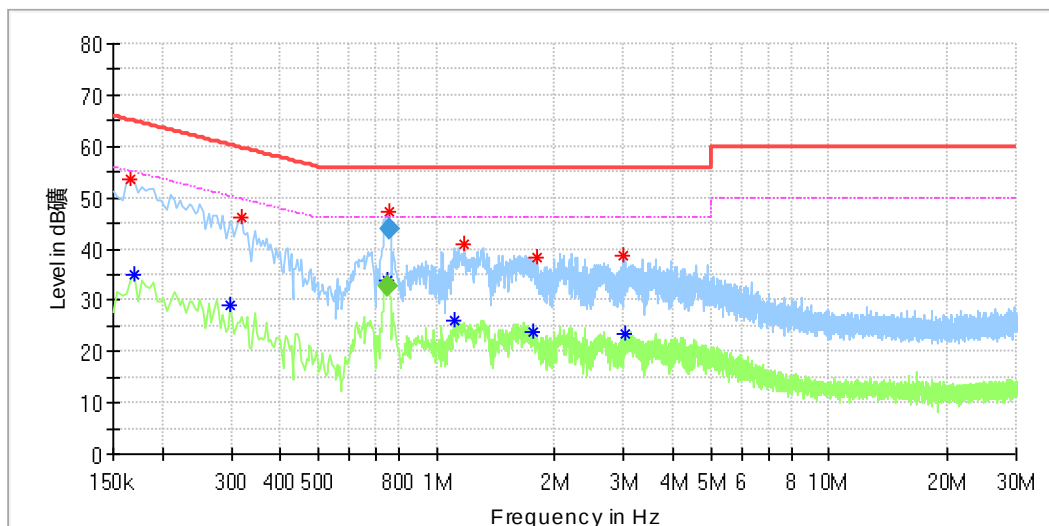
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.165500	---	37.30	55.16	17.86	L1	9.9
0.165500	55.23	---	64.96	9.73	L1	9.9
0.186000	53.71	---	64.21	10.51	L1	9.9
0.190000	---	33.51	54.04	20.52	L1	9.9
0.214000	---	33.18	53.05	19.87	L1	9.9
0.222000	51.82	---	62.74	10.92	L1	9.9
0.750000	41.06	---	56.00	14.94	L1	10.0
0.750000	---	29.89	46.00	16.11	L1	10.0
1.650000	34.24	---	56.00	21.76	L1	10.1
1.666000	---	20.22	46.00	25.78	L1	10.1
2.902000	33.47	---	56.00	22.53	L1	10.2
2.942000	---	18.49	46.00	27.51	L1	10.2

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165500	52.80	---	65.18	12.39	3000.0	9.000	L1	9.9
0.165500	---	35.53	55.18	19.66	3000.0	9.000	L1	9.9

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test mode: B
Test Voltage: AC120V/60Hz
Test By:/Review By: Steve Lan/Gary Chen
Test Standard: FCC Part 15B
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.166000	53.60	---	65.16	11.56	N	9.8
0.170000	---	35.15	54.96	19.81	N	9.8
0.298000	---	29.17	50.30	21.13	N	9.8
0.318000	46.18	---	59.76	13.58	N	9.8
0.753500	---	33.70	46.00	12.30	N	9.8
0.754500	47.11	---	56.00	8.89	N	9.8
1.106000	---	26.23	46.00	19.77	N	9.8
1.178000	40.95	---	56.00	15.05	N	9.8
1.766000	---	23.92	46.00	22.08	N	9.8
1.810000	38.33	---	56.00	17.67	N	9.8
2.998000	38.68	---	56.00	17.32	N	9.9
3.034000	---	23.57	46.00	22.43	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.753500	---	32.75	46.00	13.25	3000.0	9.000	N	9.8
0.754500	44.05	---	56.00	11.95	3000.0	9.000	N	9.8

Prüfbericht - Nr.: CN22HYZD 003
Test Report No.:Seite 16 von 25
Page 16 of 25

5.1.2 Radiated Emissions

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

Test standard	: FCC Part 15.109(a)
Basic standard	: ANSI C63.4:2014
Frequency range	: 30MHz to 5 th harmonic of the highest frequency
Classification	: Class B
Limits	: FCC Part 15.109(a)
Kind of test site	: 10m Semi-Anechoic Chamber

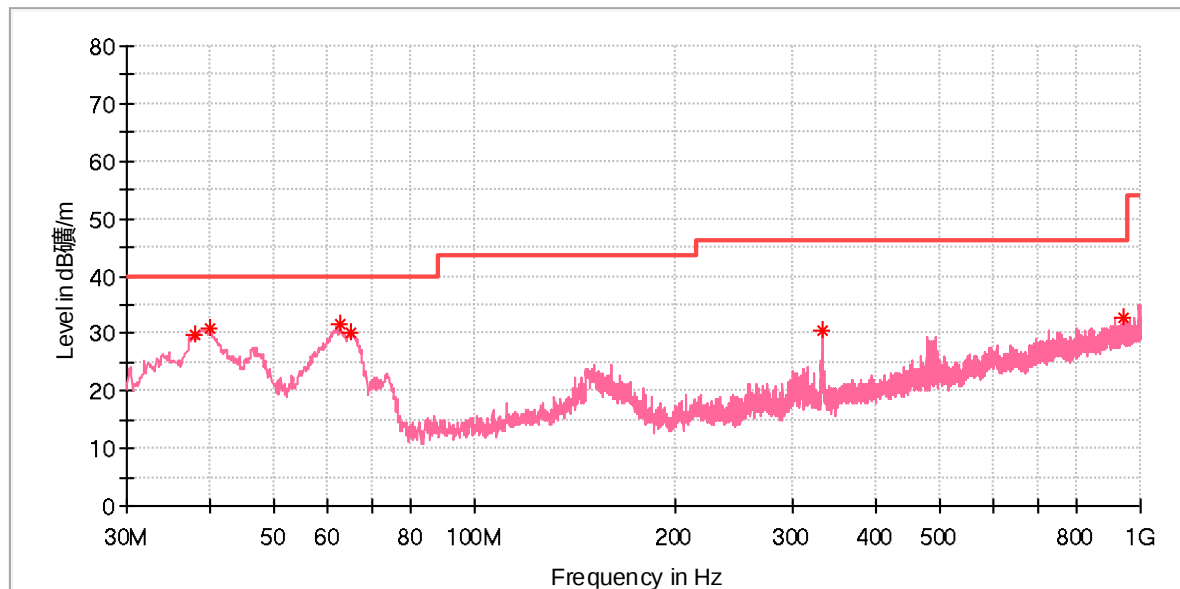
Test Setup

Date of testing	: 2022-07-22 to 2022-07-24
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Earthing	: Not connected
Ambient temperature	: 23 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

It verified that only noise-floor emissions found for above 6GHz, thus no record.

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: B
Test Voltage: AC120V/60Hz
Standard: FCC 15B
Test By./Review By: Steve Lan/Gary Chen
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: 3m chamber

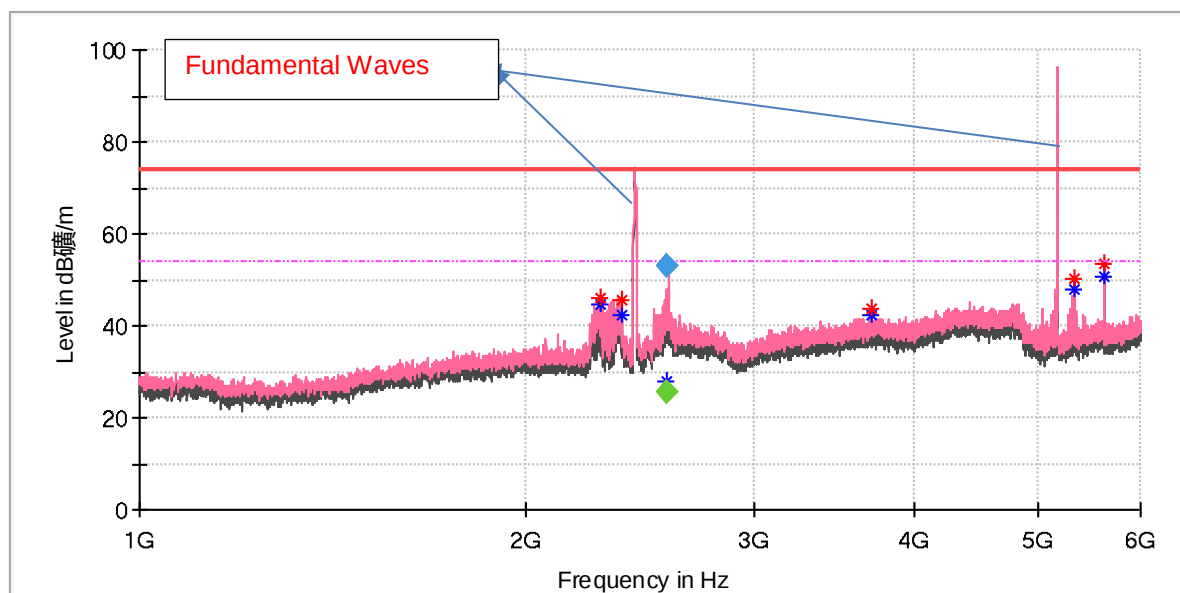


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
941.024000	32.88	46.00	13.12	100.0	V	28.0	32.3
40.088000	30.75	40.00	9.25	100.0	V	70.0	19.6
37.954000	29.91	40.00	10.09	100.0	V	254.0	19.1
62.786000	31.47	40.00	8.53	100.0	V	270.0	20.5
65.114000	30.21	40.00	9.79	100.0	V	270.0	20.1
332.155000	30.53	46.00	15.47	200.0	V	0.0	21.4

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: B
Test Voltage: AC120V/60Hz
Standard: FCC 15B
Test By./Review By: Steve Lan/Gary Chen
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: 3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2280.500000	45.89	---	74.00	28.11	100.0	V	164.0	-6.7
2280.500000	---	44.72	54.00	9.28	100.0	V	164.0	-6.7
2368.500000	---	42.12	54.00	11.89	100.0	V	6.0	-6.0
2368.500000	45.68	---	74.00	28.32	100.0	V	6.0	-6.0
2570.100000	---	28.13	54.00	25.87	100.0	V	120.0	-3.9
2571.300000	53.49	---	74.00	20.51	100.0	V	120.0	-3.9
3704.500000	43.89	---	74.00	30.11	100.0	V	58.0	0.3
3704.500000	---	42.37	54.00	11.63	100.0	V	58.0	0.3
5324.500000	---	48.02	54.00	5.98	100.0	V	331.0	0.0
5325.000000	50.10	---	74.00	23.90	100.0	V	331.0	0.0
5625.500000	53.52	---	74.00	20.48	100.0	V	100.0	0.8
5625.500000	---	50.81	54.00	3.19	100.0	V	100.0	0.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2570.100000	---	25.67	54.00	28.33	100.0	V	120.0	-3.9
2571.300000	52.84	---	74.00	21.16	100.0	V	120.0	-3.9

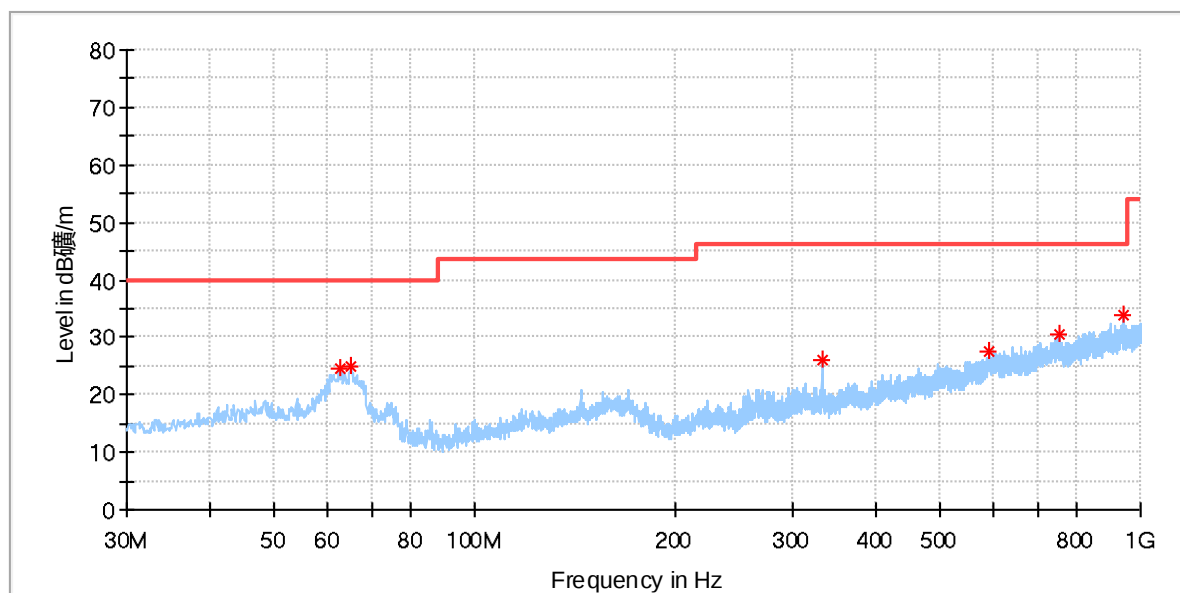
Note: The highest emissions are the Wi-Fi fundamental.

Prüfbericht - Nr.: CN22HYZD 003
Test Report No.:

Seite 19 von 25
Page 19 of 25

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: B
Test Voltage: AC120V/60Hz
Standard: FCC 15B
Test By:/Review By: Steve Lan/Gary Chen
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: 3m chamber

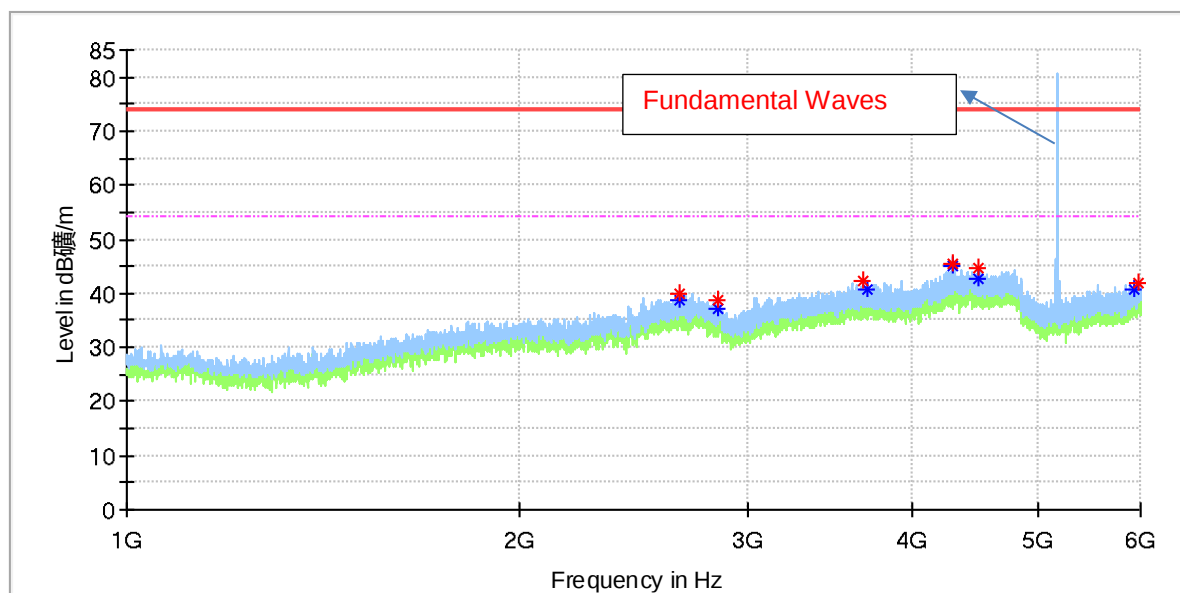


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
939.763000	33.76	46.00	12.24	100.0	H	23.0	32.3
331.767000	26.21	46.00	19.79	100.0	H	75.0	21.4
591.727000	27.41	46.00	18.59	100.0	H	189.0	27.4
752.650000	30.38	46.00	15.62	100.0	H	236.0	30.4
65.211000	24.85	40.00	15.15	200.0	H	165.0	20.1
62.592000	24.73	40.00	15.27	200.0	H	216.0	20.5

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: WIFI Link
Test Voltage: AC120V/60Hz
Standard: FCC 15B
Test By./Review By: Steve Lan/Gary Chen
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: 3m chamber



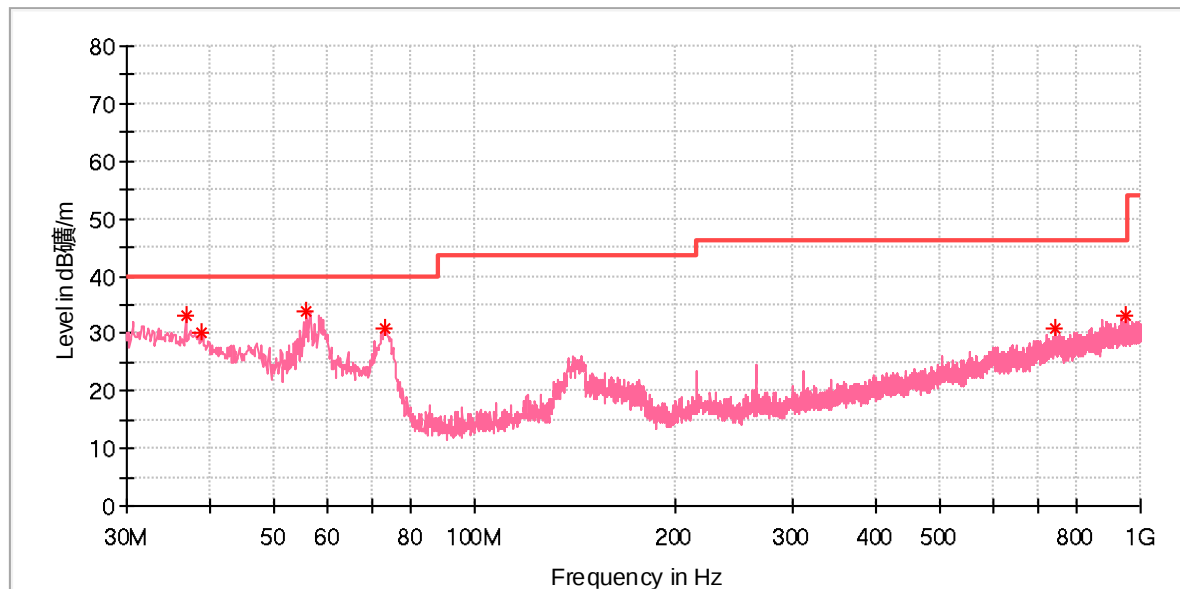
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2651.500000	---	38.92	54.00	15.08	100.0	H	63.0	-3.2
2652.000000	40.01	---	74.00	33.99	100.0	H	34.0	-3.2
2842.000000	38.85	---	74.00	35.15	100.0	H	349.0	-4.4
2842.000000	---	37.33	54.00	16.67	100.0	H	349.0	-4.4
3676.000000	42.42	---	74.00	31.58	100.0	H	250.0	0.1
3706.000000	---	40.84	54.00	13.16	100.0	H	212.0	0.3
4309.000000	---	44.88	54.00	9.12	100.0	H	102.0	2.2
4309.000000	45.60	---	74.00	28.40	100.0	H	102.0	2.2
4503.500000	44.51	---	74.00	29.49	100.0	H	343.0	2.1
4503.500000	---	42.64	54.00	11.36	100.0	H	343.0	2.1
5937.500000	---	40.87	54.00	13.13	100.0	H	4.0	1.9
5987.000000	41.76	---	74.00	32.24	100.0	H	311.0	2.4

Note: The highest emission is the Wi-Fi fundamental.

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: B
Test Voltage: AC1200V/60Hz
Standard: FCC 15B
Test By:/Review By: Steve Lan/Gary Chen
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: 3m chamber

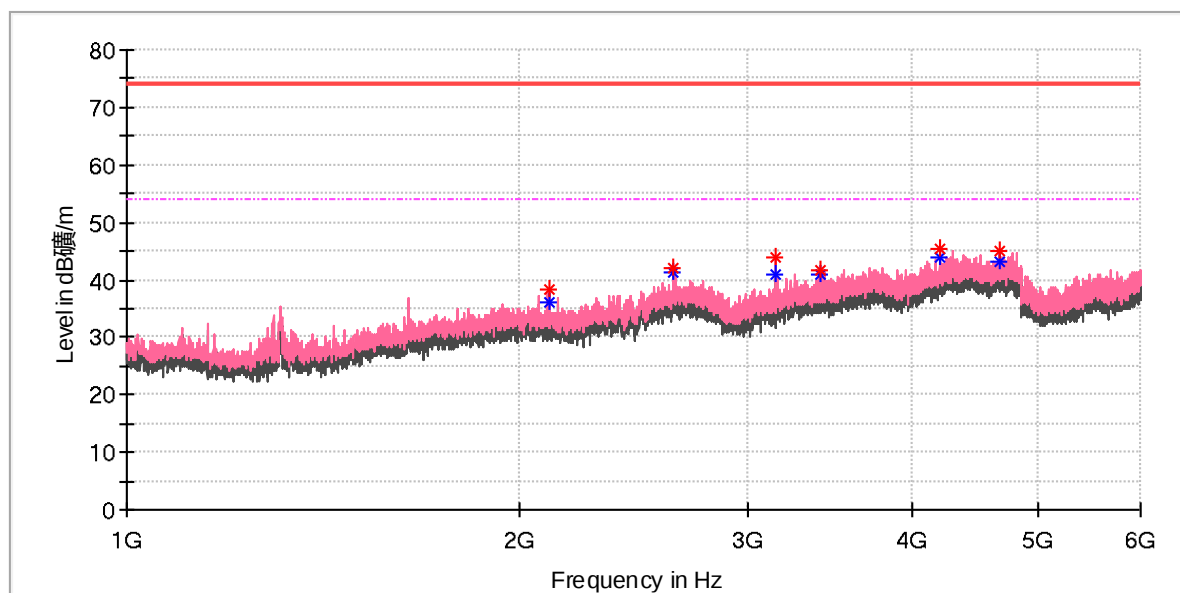


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.790000	33.02	40.00	6.98	100.0	V	106.0	18.9
38.827000	30.03	40.00	9.97	100.0	V	141.0	19.3
55.802000	34.00	40.00	6.00	100.0	V	295.0	21.2
73.359000	30.83	40.00	9.17	100.0	V	295.0	17.3
745.278000	30.94	46.00	15.06	100.0	V	348.0	30.4
952.761000	32.93	46.00	13.07	200.0	V	313.0	32.0

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: B
Test Voltage: AC120V/60Hz
Standard: FCC 15B
Test By./Review By: Steve Lan/Gary Chen
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: 3m chamber



Critical Freqs

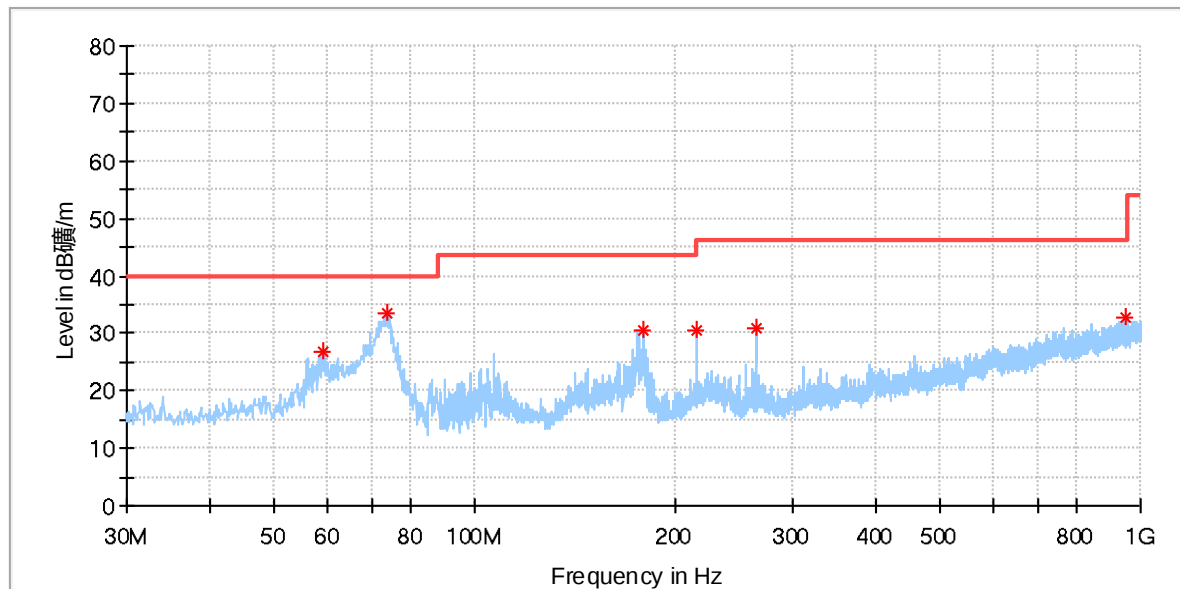
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2108.000000	38.14	---	74.00	35.86	100.0	V	166.0	-7.5
2108.000000	---	35.98	54.00	18.02	100.0	V	166.0	-7.5
2625.500000	42.13	---	74.00	31.87	100.0	V	39.0	-3.6
2625.500000	---	41.39	54.00	12.61	100.0	V	39.0	-3.6
3152.000000	44.02	---	74.00	29.98	100.0	V	160.0	-2.7
3152.000000	---	40.78	54.00	13.22	100.0	V	160.0	-2.7
3401.000000	41.78	---	74.00	32.22	100.0	V	306.0	-1.6
3401.000000	---	40.81	54.00	13.19	100.0	V	306.0	-1.6
4206.000000	45.25	---	74.00	28.75	100.0	V	156.0	1.4
4206.000000	---	44.04	54.00	9.96	100.0	V	156.0	1.4
4669.000000	44.98	---	74.00	29.02	100.0	V	213.0	2.4
4669.000000	---	43.07	54.00	10.93	100.0	V	213.0	2.4

Prüfbericht - Nr.: CN22HYZD 003
Test Report No.:

Seite 23 von 25
 Page 23 of 25

EUT Information

EUT Name: Home Gateway
 Order No: 168377514
 Model: E3330
 Test Mode: LAN Link
 Test Voltage: AC120V/60Hz
 Standard: FCC 15B
 Test By:/Review By: Steve Lan/Gary Chen
 Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
 Remark: 3m chamber

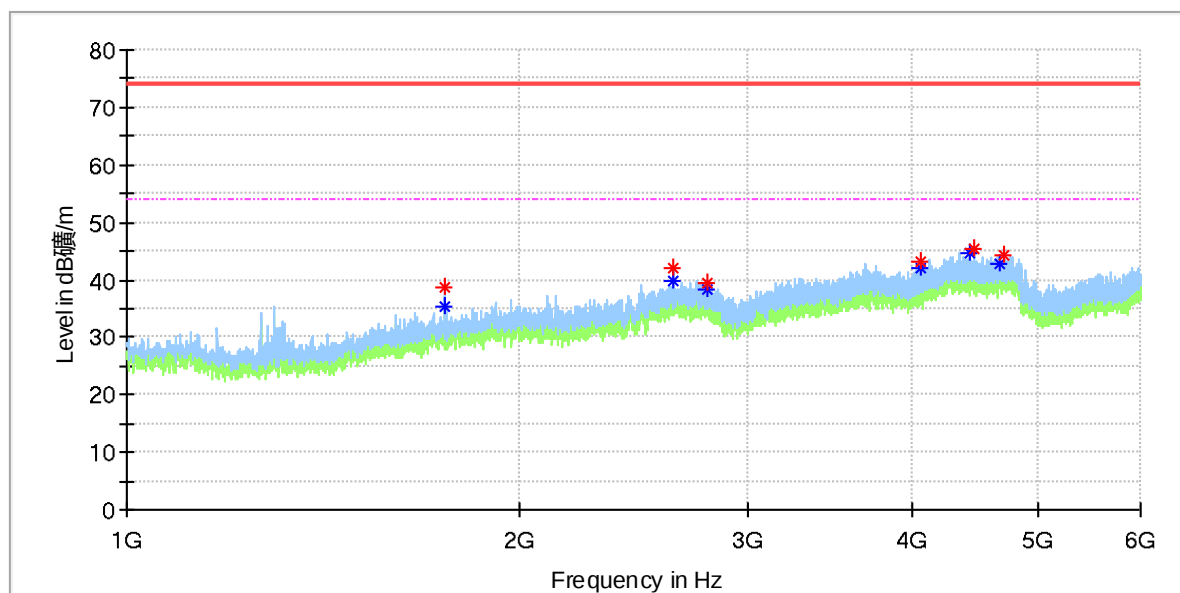


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.294000	26.71	40.00	13.29	200.0	H	183.0	21.1
73.650000	33.61	40.00	6.39	200.0	H	4.0	17.2
179.089000	30.55	43.50	12.95	200.0	H	191.0	19.6
215.949000	30.36	43.50	13.14	100.0	H	182.0	18.4
263.964000	31.00	46.00	15.00	100.0	H	85.0	20.3
947.620000	32.77	46.00	13.23	100.0	H	136.0	32.1

EUT Information

EUT Name: Home Gateway
Order No: 168377514
Model: E3330
Test Mode: B
Test Voltage: AC120V/60Hz
Standard: FCC 15B
Test By:/Review By: Steve Lan/Gary Chen
Tem./Hum./Pressure: 24.1°C/53.7%/101kPa
Remark: 3m chamber



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1754.000000	38.73	---	74.00	35.27	100.0	H	129.0	-8.7
1754.000000	---	35.30	54.00	18.70	100.0	H	129.0	-8.7
2628.500000	---	39.63	54.00	14.37	100.0	H	148.0	-3.6
2628.500000	41.88	---	74.00	32.12	100.0	H	148.0	-3.6
2786.500000	39.32	---	74.00	34.68	100.0	H	0.0	-3.6
2786.500000	---	38.26	54.00	15.74	100.0	H	0.0	-3.6
4064.000000	43.31	---	74.00	30.69	100.0	H	111.0	0.6
4064.000000	---	41.99	54.00	12.01	100.0	H	111.0	0.6
4444.500000	---	44.54	54.00	9.46	100.0	H	83.0	1.9
4466.000000	45.28	---	74.00	28.72	100.0	H	331.0	2.0
4675.500000	---	42.80	54.00	11.20	100.0	H	209.0	2.4
4720.500000	44.15	---	74.00	29.85	100.0	H	70.0	2.7

6 Photographs of the Test Set-Up

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

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	5
Table 2: Technical Specification of EUT	7
Table 3: Auxiliary Equipment Used during Test	9