



<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN22M62P 003</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	<b>168381079</b>	<b>Seite 1 von 24</b> <i>Page 1 of 24</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	<b>N/A</b>	<b>Auftragsdatum:</b> <i>Order date:</i>	<b>2022-07-15</b>	
<b>Auftraggeber:</b> <i>Client:</i>	<b>ZTE Corporation</b> ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>Home Gateway</b>			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	<b>E1320</b> (Trademark: ZTE)			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>Test Report</b>			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	<b>CFR47 FCC Part 15: Subpart B,Class B</b> Section 15.107 <b>CFR47 FCC Part 15: Subpart B,Class B</b> Section 15.109			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	<b>2022-05-16</b>	<b>Please refer to Photo Document</b>		
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	<b>A003294694-003~004</b>			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>2022-07-20 - 2022-07-30</b>			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>TÜV Rheinland (Shenzhen)</b> Co., Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>TÜV Rheinland (Shenzhen)</b> Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>			
<b>geprüft von:</b> <i>tested by:</i>	 <small>Signed by: Bell Hu</small>	<b>genehmigt von:</b> <i>authorized by:</i>	 <small>Signed by: Lin Lin</small>	
<b>Datum:</b> <i>Date:</i>	<b>2022-08-30</b>	<b>Ausstellungsdatum:</b> <i>Issue date:</i>	<b>2022-08-30</b>	
<b>Stellung / Position:</b>	<b>Project Manager</b>	<b>Stellung / Position:</b>	<b>Reviewer</b>	
<b>Sonstiges / Other:</b>	<b>FCC ID: Q78-E1320</b>			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged</i>			
<b>* Legende:</b>	<b>1 = sehr gut</b> P(ass) = entspricht o.g. Prüfgrundlage(n)	<b>2 = gut</b> F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	<b>3 = befriedigend</b> N/A = nicht anwendbar	<b>4 = ausreichend</b> N/T = nicht getestet
<b>* Legend:</b>	<b>1 = very good</b> P(ass) = passed a.m. test specification(s)	<b>2 = good</b> F(ail) = failed a.m. test specification(s)	<b>3 = satisfactory</b> N/A = not applicable	<b>4 = sufficient</b> N/T = not tested
<b>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.</b> <i>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.</i>				

V05

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## ***Test Summary***

**5.1.1 CONDUCTED EMISSION ON AC MAINS**

*RESULT: Pass*

**5.1.2 RADIATED EMISSIONS**

*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

## 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**

<b>Conducted Emission</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
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
<b>Radiated Emission (10m chamber)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
10m Chamber	ETS-Lindgren	SAC10	CT001632-Q1399	2024-03-01
EMI Test Receiver 1	R&S	ESR7	102022	2022-08-10
EMI Test Receiver 2	R&S	ESR7	102023	2022-08-10
Bilog Antenna 1	TESEQ	CBL6112D	51321	2022-08-08
Bilog Antenna 2	TESEQ	CBL6112D	51322	2023-07-07
Preamplifier 1 (30-1000MHz)	SCHWARZBECK	BBV9745	115	2022-08-13
Preamplifier 2 (30-1000MHz)	EMCI	EMC9135-P	980629	2022-08-13
Preamplifier 3 (1-18GHz)	FIT	SCU-18F	180076	2022-08-13
Horn Antenna	R&S	HF907	102707	2023-07-03
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 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 EUT 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:	E1320
Trademark:	ZTE
FCC ID:	Q78-E1320
Operating Voltage:	DC 12.0V/1.0A via adapter
Testing Voltage:	AC 120V, 60Hz
<b>Technical Specification of Wi-Fi 802.11 b/g/n/ax</b>	
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)
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Number of Antenna:	2
Antenna Gain:	5.0 dBi Max
<b>Technical Specification of Wi-Fi 802.11 a/n/ac/ax</b>	
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 5500-5720MHz: 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
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS23 for 802.11n

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	MCS0-MCS9 for 802.11ac MCS0-MCS11 for 802.11ax
Channel Separation	5 MHz
Antenna Type:	Integral Antenna
Number of Antenna:	3



### 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
- Operation Description
- Schematics
- PCB Layout
- User Manual
- Block Diagram
- Rating Label
- 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 E1320 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	Lenovo	T480	10Q67059
Portable Laptop 2	Lenovo	ThinkPad X280	SL10P97711
AC/DC adapter	Xiamen Castec	MN0112K-L120100	Input 100-240V AC, 50/60Hz 0.3A Max; Output 12V/1.0A 12W

### 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)

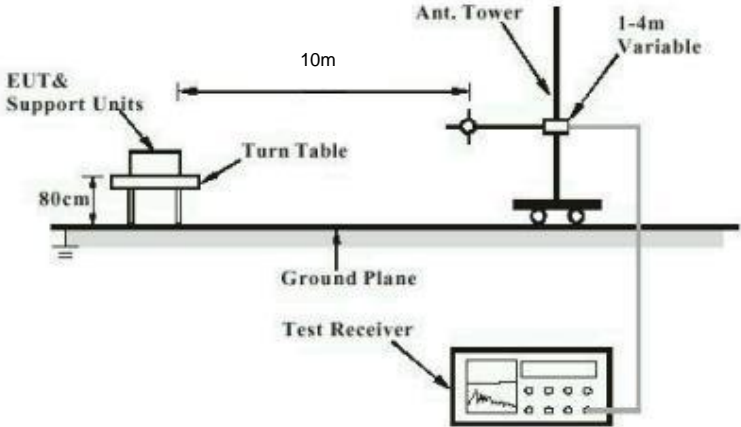


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

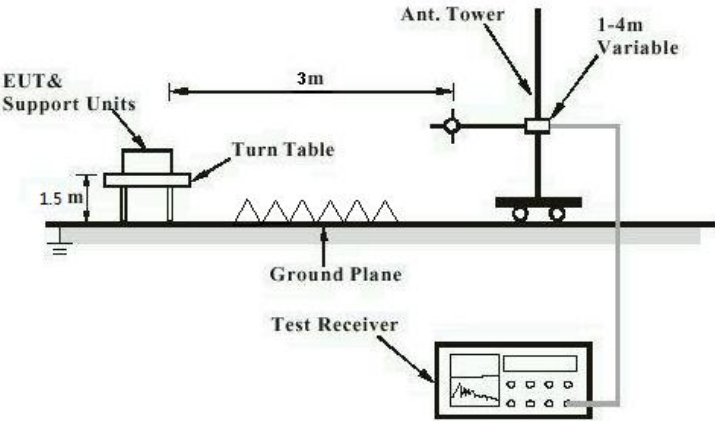
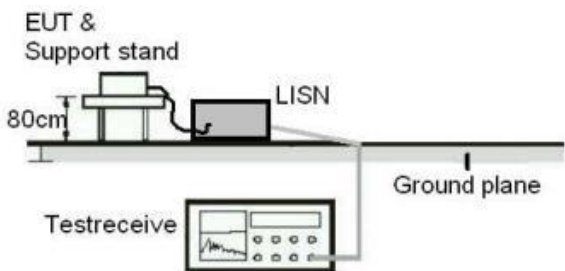


Diagram of Measurement Configuration for Mains Conduction Measurement



## 5 Test Results

### 5.1.1 Conducted Emission on AC Mains

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

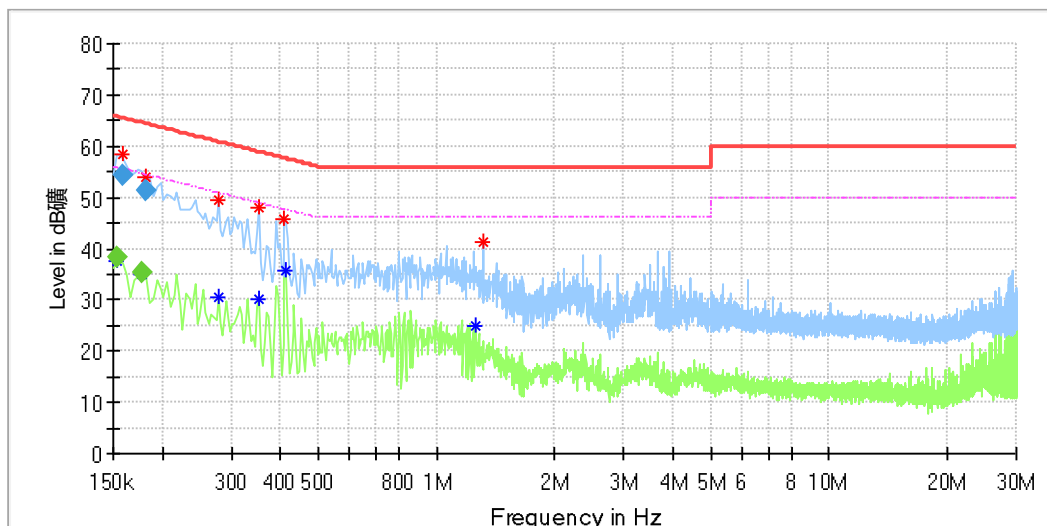
Test standard	: FCC Part 15.107(a)
Basic standard	: ANSI C63.4:2014
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.107(a)
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 2022-07-20 to 2022-07-22
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:	168381079(P00756843)
Model:	E1320
Test mode:	A
Test Voltage:	AC 120V/60Hz
Test By./Review By:	Steve Lan/Gary Chen
Test Standard:	FCC 15B
Tem./Hum./Pressure:	23.7°C/50.4%/101kPa
Remark:	SR2



## Critical\_Freqs

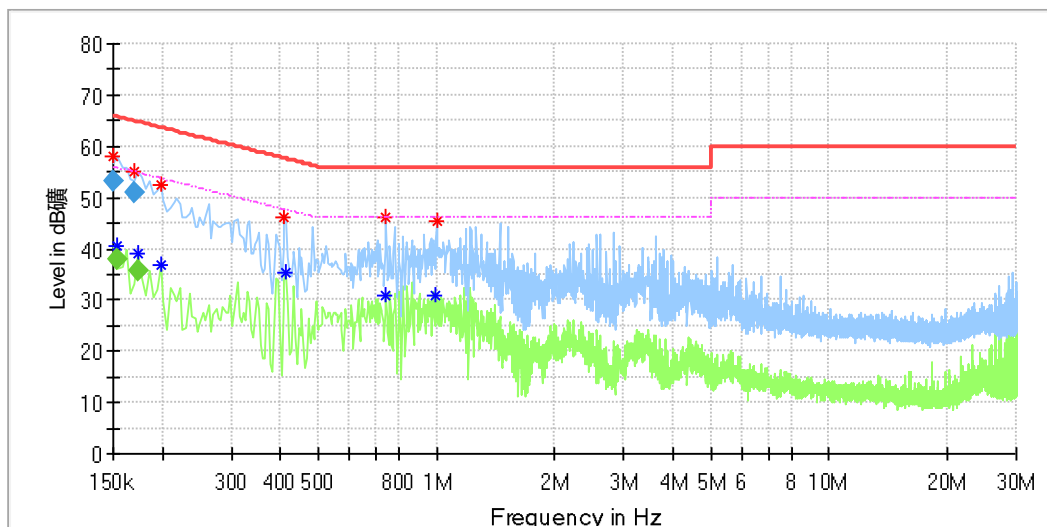
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	37.40	55.78	18.38	L1	9.9
0.158500	58.43	---	65.78	7.36	L1	9.9
0.177500	---	34.93	54.39	19.47	L1	9.9
0.181500	53.78	---	64.21	10.43	L1	9.9
0.278000	---	30.54	50.88	20.34	L1	9.9
0.278000	49.52	---	60.88	11.35	L1	9.9
0.354000	---	30.18	48.87	18.68	L1	9.9
0.354000	48.04	---	58.87	10.83	L1	9.9
0.410000	45.60	---	57.65	12.05	L1	9.9
0.414000	---	35.63	47.57	11.94	L1	9.9
1.258000	---	24.94	46.00	21.06	L1	10.1
1.318000	41.37	---	56.00	14.63	L1	10.1

## Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	---	38.37	55.78	17.41	3000.0	9.000	L1	9.9
0.158500	54.30	---	65.54	11.24	3000.0	9.000	L1	9.9
0.177500	---	35.42	54.60	19.18	3000.0	9.000	L1	9.9
0.181500	51.39	---	64.42	13.03	3000.0	9.000	L1	9.9

## EUT Information

EUT Name:	Home Gateway
Order No:	168381079(P00756843)
Model:	E1320
Test mode:	A
Test Voltage:	AC 120V/60Hz
Test By./Review By:	Steve Lan/Gary Chen
Test Standard:	FCC 15B
Tem./Hum./Pressure:	23.7°C/50.4%/101kPa
Remark:	SR2



## Critical\_Freqs

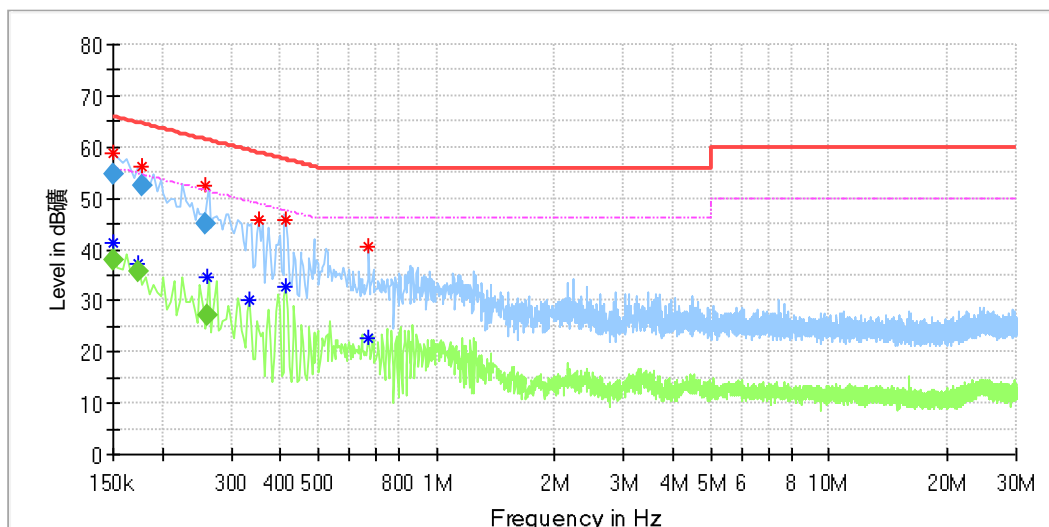
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	57.99	---	65.78	7.80	N	9.8
0.154000	---	40.39	56.00	15.61	N	9.8
0.169500	55.22	---	64.77	9.55	N	9.8
0.173500	---	39.10	54.77	15.67	N	9.8
0.198000	---	36.94	53.69	16.76	N	9.8
0.198000	52.51	---	63.69	11.18	N	9.8
0.410000	46.31	---	57.65	11.34	N	9.8
0.414000	---	35.47	47.57	12.10	N	9.8
0.742000	---	30.96	46.00	15.04	N	9.8
0.742000	46.13	---	56.00	9.87	N	9.8
0.998000	---	31.05	46.00	14.95	N	9.8
1.002000	45.23	---	56.00	10.77	N	9.8

## Final\_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	53.10	---	66.00	12.90	3000.0	9.000	N	9.8
0.154000	---	38.09	55.78	17.70	3000.0	9.000	N	9.8
0.169500	50.82	---	64.99	14.16	3000.0	9.000	N	9.8
0.173500	---	35.88	54.79	18.91	3000.0	9.000	N	9.8

## EUT Information

EUT Name:	Home Gateway
Order No:	168381079(P00756843)
Model:	E1320
Test mode:	B
Test Voltage:	AC 120V/60Hz
Test By./Review By:	Steve Lan/Gary Chen
Test Standard:	FCC 15B
Tem./Hum./Pressure:	23.7°C/50.4%/101kPa
Remark:	SR2



## Critical\_Freqs

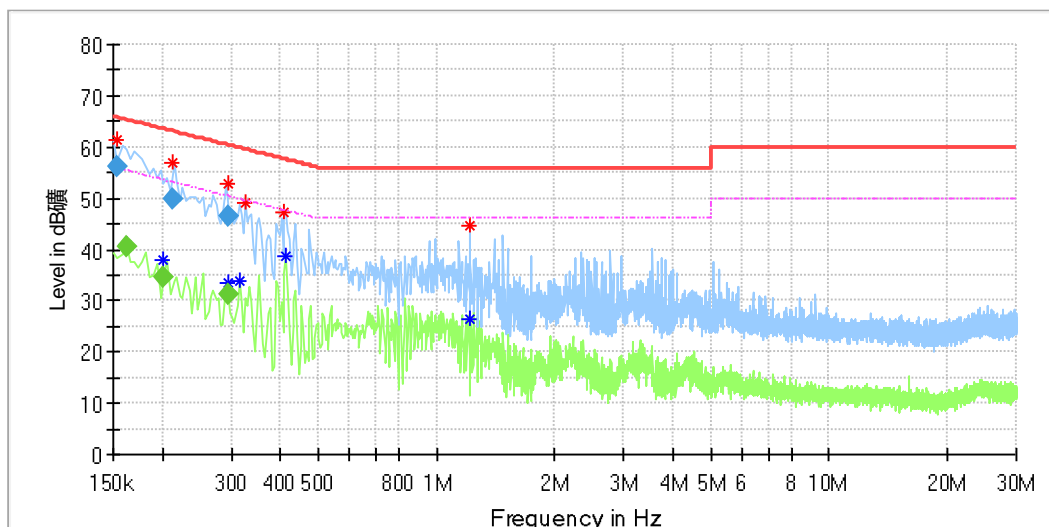
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	41.32	56.00	14.68	L1	9.9
0.150000	58.66	---	66.00	7.34	L1	9.9
0.173500	---	37.36	54.77	17.41	L1	9.9
0.177500	56.28	---	64.77	8.49	L1	9.9
0.257500	52.32	---	61.37	9.05	L1	9.9
0.261500	---	34.71	51.37	16.66	L1	9.9
0.334000	---	30.10	49.35	19.26	L1	9.9
0.354000	45.78	---	58.87	13.09	L1	9.9
0.414000	---	32.57	47.57	15.00	L1	9.9
0.414000	45.81	---	57.57	11.76	L1	9.9
0.670000	---	22.58	46.00	23.42	L1	10.0
0.670000	40.59	---	56.00	15.41	L1	10.0

## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	38.11	56.00	17.89	3000.0	9.000	L1	9.9
0.150000	54.57	---	66.00	11.43	3000.0	9.000	L1	9.9
0.173500	---	35.72	54.79	19.07	3000.0	9.000	L1	9.9
0.177500	52.64	---	64.60	11.96	3000.0	9.000	L1	9.9
0.257500	45.07	---	61.51	16.44	3000.0	9.000	L1	9.9
0.261500	---	27.00	51.38	24.39	3000.0	9.000	L1	9.9

## EUT Information

EUT Name:	Home Gateway
Order No:	168381079(P00756843)
Model:	E1320
Test mode:	B
Test Voltage:	AC 120V/60Hz
Test By./Review By:	Steve Lan/Gary Chen
Test Standard:	FCC 15B
Tem./Hum./Pressure:	23.7°C/50.4%/101kPa
Remark:	SR2



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	61.21	---	66.00	4.79	N	9.8
0.161500	---	40.75	55.36	14.61	N	9.8
0.201500	---	37.98	53.37	15.39	N	9.8
0.213500	56.90	---	63.05	6.15	N	9.8
0.293500	---	33.59	50.52	16.93	N	9.8
0.293500	52.92	---	60.52	7.61	N	9.8
0.314000	---	33.98	49.86	15.89	N	9.8
0.326000	49.07	---	59.55	10.48	N	9.8
0.410000	47.29	---	57.65	10.36	N	9.8
0.414000	---	38.70	47.57	8.86	N	9.8
1.218000	44.81	---	56.00	11.19	N	9.8
1.222000	---	26.43	46.00	19.57	N	9.8

## Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	56.03	---	65.78	9.75	3000.0	9.000	N	9.8
0.161500	---	40.66	55.39	14.72	3000.0	9.000	N	9.8
0.201500	---	34.62	53.55	18.93	3000.0	9.000	N	9.8
0.213500	49.88	---	63.07	13.19	3000.0	9.000	N	9.8
0.293500	---	31.23	50.43	19.20	3000.0	9.000	N	9.8
0.293500	46.36	---	60.43	14.07	3000.0	9.000	N	9.8



## 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 <sup>th</sup> harmonic of the highest frequency
Classification	: Class B
Limits	: FCC Part 15.109(a)
Kind of test site	: 10m Semi-Anechoic Chamber

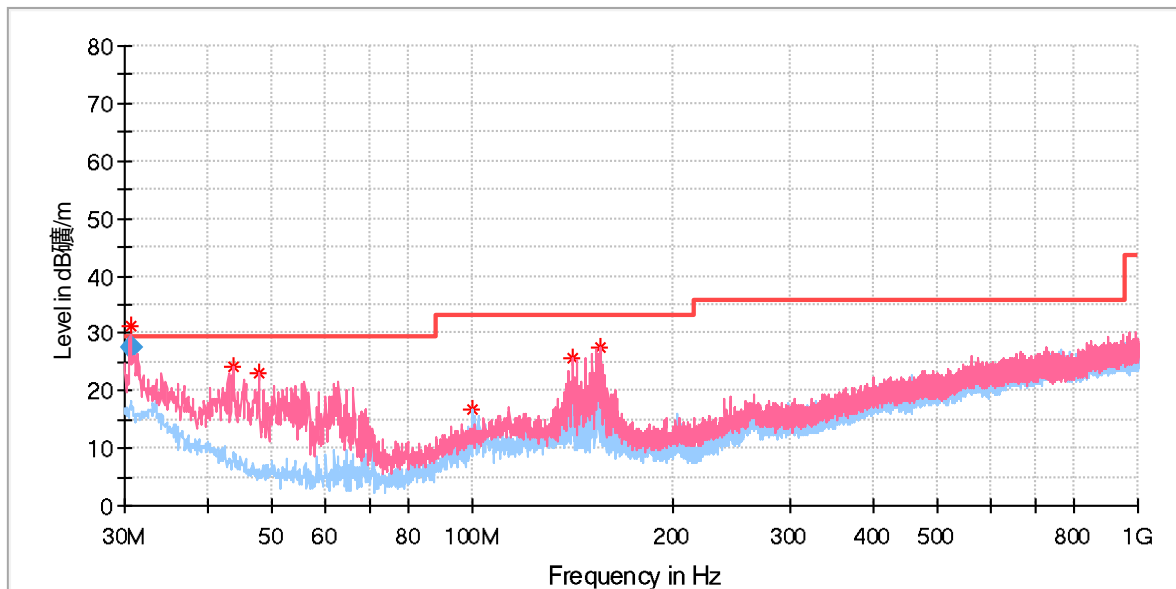
**Test Setup**

Date of testing	: 2022-07-26 to 2022-07-27
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 Number:	168381079(P00756843)
Model:	E1320
Test Mode:	A
Test Voltage:	AC120V/60Hz
Standard:	FCC Part 15B
Test By./Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.2°C/52.7%/101kPa
Remark:	10m Chamber



## Critical Freqs

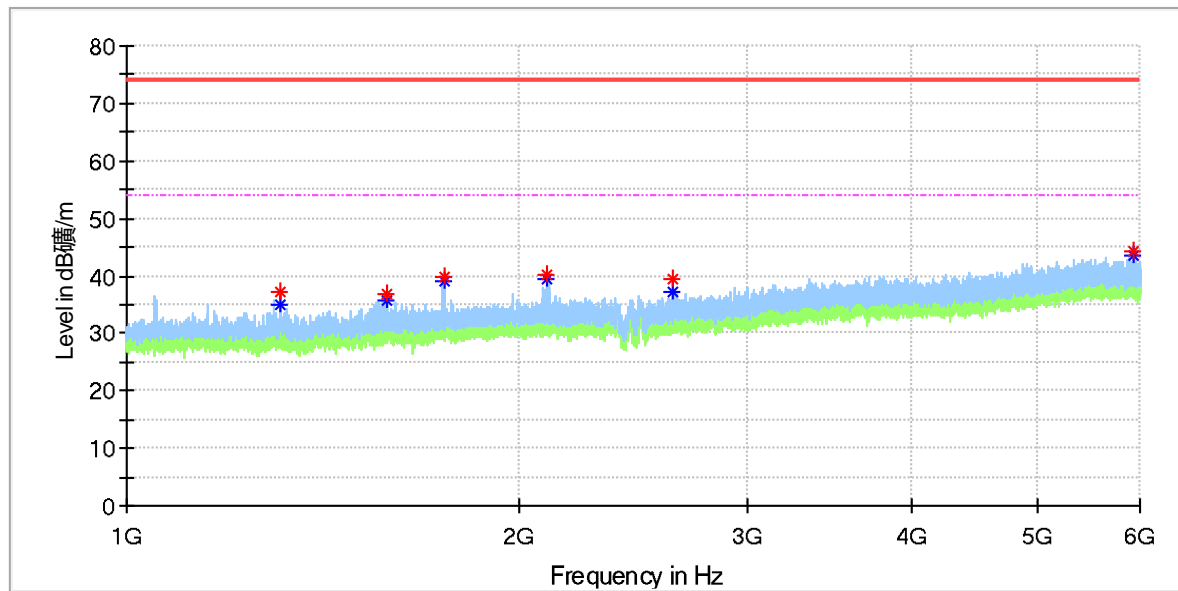
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.600000	31.20	29.50	-0.11	186.0	V	129.0	-4.8
43.741667	24.28	29.50	5.22	100.0	V	128.0	-12.0
47.783333	23.13	29.50	6.37	200.0	V	90.0	-14.0
100.001667	16.73	33.10	16.37	200.0	H	270.0	-17.1
141.172778	25.79	33.10	7.31	100.0	V	293.0	-10.8
155.561111	27.43	33.10	5.67	100.0	V	293.0	-11.7

## Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth h (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.600000	27.44	29.50	2.06	1000.0	120.000	186.0	V	129.	-4.8

## EUT Information

EUT Name:	Home Gateway
Order Number:	168381079(P00756843)
Model:	E1320
Test Mode:	A
Test Voltage:	AC120V/60Hz
Standard:	FCC Part 15B
Test By./Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.2°C/52.7%/101kPa
Remark:	3m Chamber

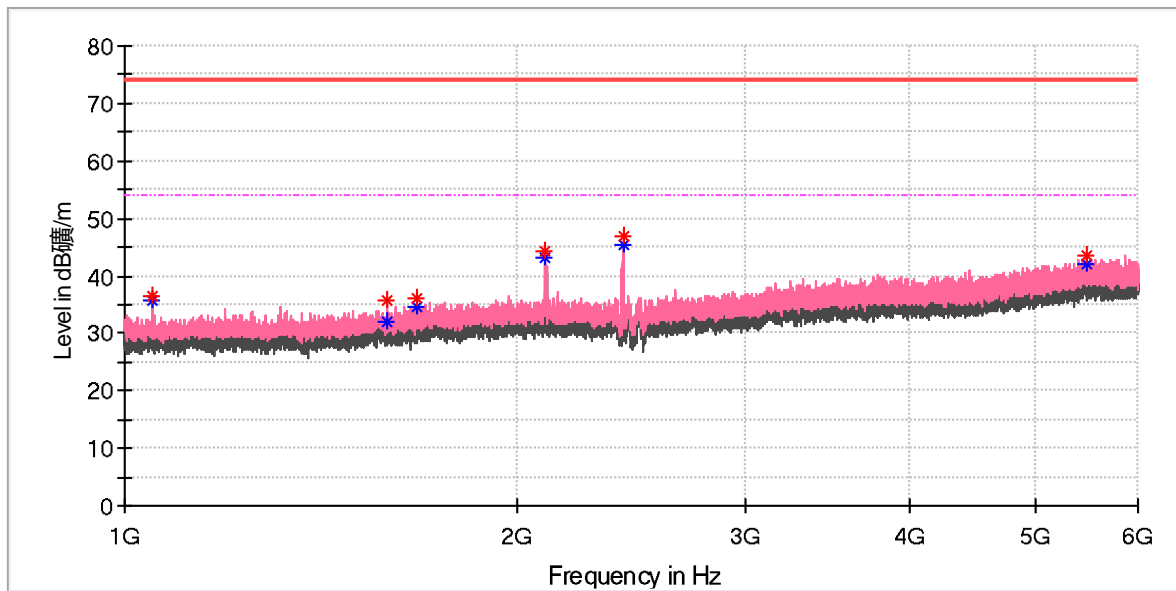


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1311.250000	---	34.93	54.00	19.07	100.0	H	149.0	-5.9
1311.250000	37.31	---	74.00	36.69	100.0	H	149.0	-5.9
1584.166667	---	35.90	54.00	18.10	100.0	H	134.0	-4.9
1584.166667	36.72	---	74.00	37.28	100.0	H	134.0	-4.9
1751.250000	---	38.97	54.00	15.03	200.0	H	45.0	-4.2
1751.250000	39.76	---	74.00	34.24	200.0	H	45.0	-4.2
2103.541667	---	39.40	54.00	14.60	100.0	H	139.0	-3.1
2103.541667	40.35	---	74.00	33.65	100.0	H	139.0	-3.1
2628.750000	---	37.25	54.00	16.75	100.0	H	139.0	-1.9
2628.750000	39.55	---	74.00	34.45	100.0	H	139.0	-1.9
5935.625000	44.40	---	74.00	29.60	200.0	H	235.0	10.2
5935.625000	---	43.37	54.00	10.63	200.0	H	235.0	10.2

## EUT Information

EUT Name:	Home Gateway
Order Number:	168381079(P00756843)
Model:	E1320
Test Mode:	A
Test Voltage:	AC120V/60Hz
Standard:	FCC Part 15B
Test By./Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.2°C/52.7%/101kPa
Remark:	3m



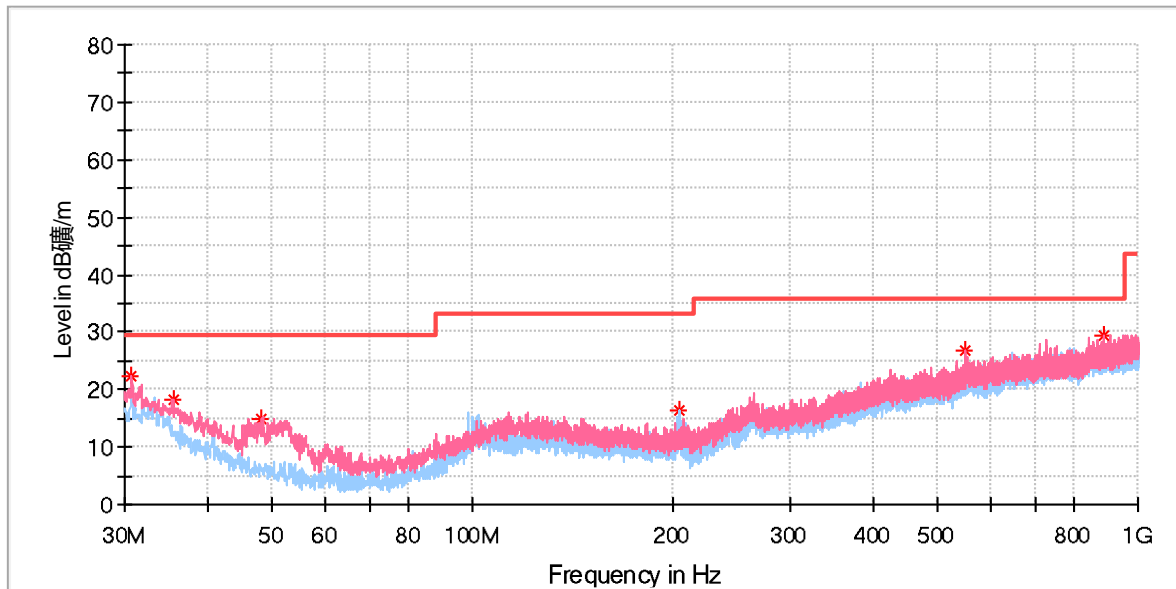
## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1051.041667	36.41	---	74.00	37.59	200.0	V	118.0	-7.0
1051.041667	---	35.58	54.00	18.42	200.0	V	118.0	-7.0
1592.083333	35.62	---	74.00	38.38	100.0	V	169.0	-4.8
1592.500000	---	31.97	54.00	22.03	100.0	V	282.0	-4.8
1676.875000	36.11	---	74.00	37.89	100.0	V	309.0	-4.5
1676.875000	---	34.43	54.00	19.57	100.0	V	309.0	-4.5
2104.583333	44.37	---	74.00	29.63	200.0	V	254.0	-3.1
2104.583333	---	43.07	54.00	10.93	200.0	V	254.0	-3.1
2415.625000	---	45.26	54.00	8.74	100.0	V	159.0	-2.7
2416.041667	46.97	---	74.00	27.03	100.0	V	159.0	-2.7
5482.708333	43.58	---	74.00	30.42	100.0	V	159.0	9.8
5482.708333	---	42.14	54.00	11.86	100.0	V	159.0	9.8

# Test Report

## EUT Information

EUT Name:	Home Gateway
Order Number:	168381079(P00756843)
Model:	E1320
Test Mode:	B
Test Voltage:	AC120V/60Hz
Standard:	FCC Part 15B
Test By:/Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.2°C/52.7%/101kPa
Remark:	10m

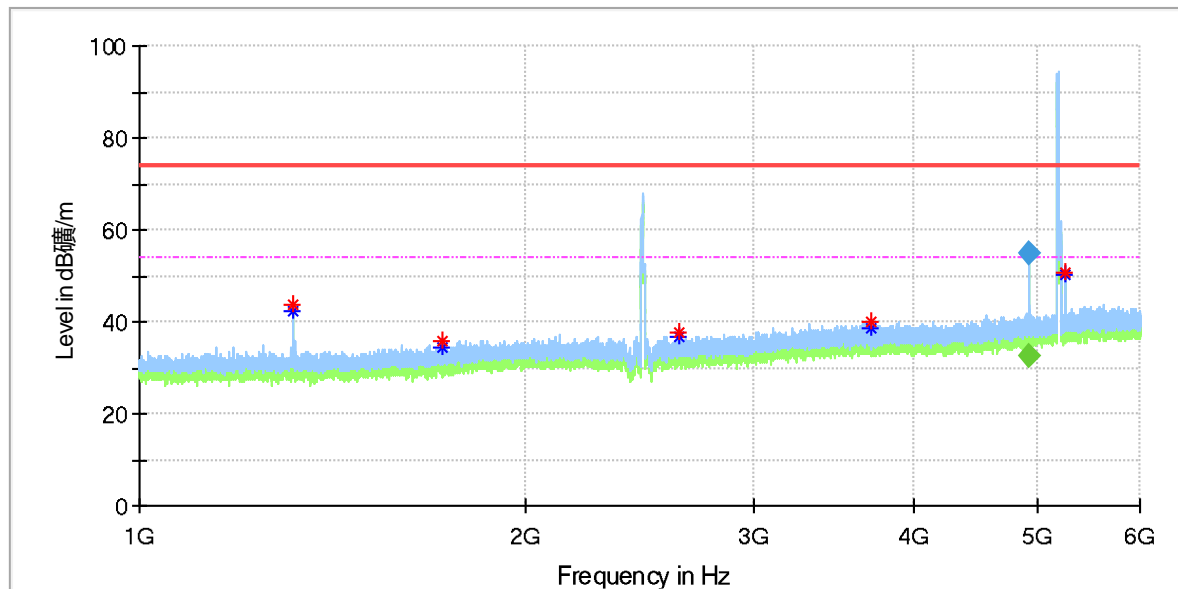


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.700556	22.14	29.50	7.36	100.0	V	0.0	-4.9
35.442778	18.36	29.50	11.14	100.0	V	34.0	-7.5
48.268333	15.07	29.50	14.43	100.0	V	57.0	-14.2
204.977222	16.20	33.10	16.90	200.0	H	91.0	-18.0
550.836111	26.80	35.60	8.80	200.0	V	168.0	-1.3
888.719444	29.55	35.60	6.05	100.0	V	30.0	2.2

## EUT Information

EUT Name:	Home Gateway
Order Number:	168381079(P00756843)
Model:	E1320
Test Mode:	B
Test Voltage:	AC120V/60Hz
Standard:	FCC Part 15B
Test By./Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.2°C/52.7%/101kPa
Remark:	3m Chamber



## Critical Freqs

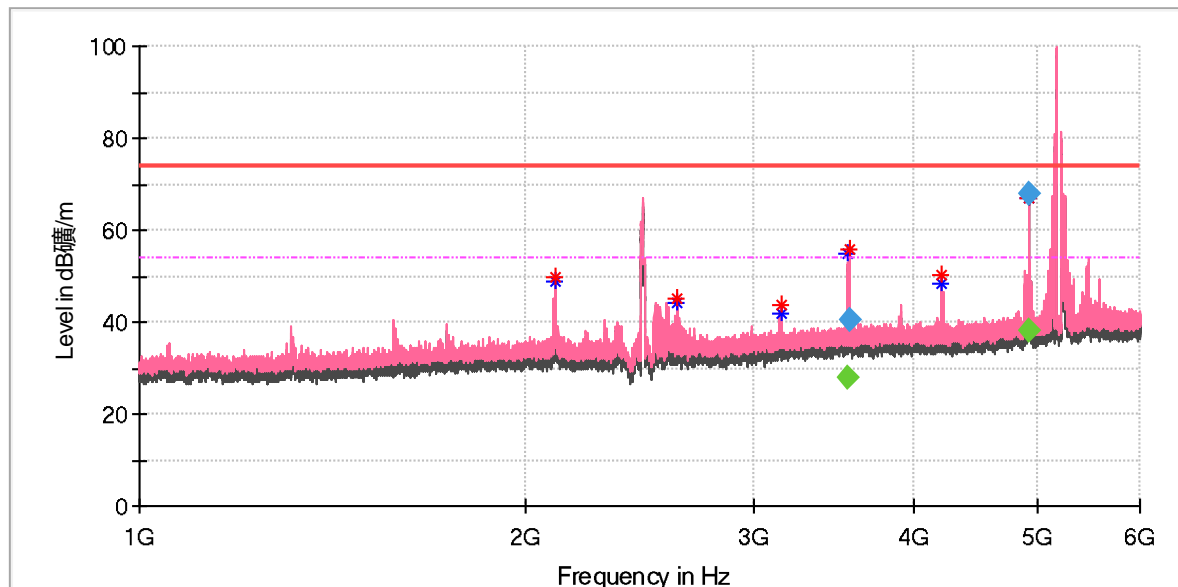
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1315.625000	---	42.17	54.00	11.83	100.0	H	127.0	-5.9
1315.625000	43.52	---	74.00	30.48	100.0	H	127.0	-5.9
1720.000000	---	34.49	54.00	19.51	200.0	H	272.0	-4.3
1720.000000	35.63	---	74.00	38.37	200.0	H	272.0	-4.3
2633.541667	---	36.93	54.00	17.07	200.0	H	77.0	-1.9
2633.541667	37.78	---	74.00	36.22	200.0	H	77.0	-1.9
3700.625000	---	38.54	54.00	15.46	200.0	H	311.0	3.2
3700.625000	40.22	---	74.00	33.78	200.0	H	311.0	3.2
4923.766667	54.86	---	74.00	19.14	100.0	H	337.0	7.3
4923.766667	---	54.69	54.00	-0.69	100.0	H	337.0	7.3
5250.208333	---	50.09	54.00	3.91	100.0	H	331.0	8.7
5250.208333	50.63	---	74.00	23.37	100.0	H	331.0	8.7

## Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.766667	---	32.47	54.00	21.53	1000.0	100.0	H	337.0	7.3
4923.766667	54.78	---	74.00	19.22	1000.0	100.0	H	337.0	7.3

## EUT Information

EUT Name:	Home Gateway
Order Number:	168381079(P00756843)
Model:	E1320
Test Mode:	B
Test Voltage:	AC120V/60Hz
Standard:	FCC Part 15B
Test By:/Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.2°C/52.7%/101kPa
Remark:	3m Chamber



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2103.750000	---	48.98	54.00	5.02	100.0	V	80.0	-3.1
2103.750000	49.64	---	74.00	24.36	100.0	V	80.0	-3.1
2620.208333	---	44.05	54.00	9.95	100.0	V	68.0	-2.0
2620.208333	44.96	---	74.00	29.04	100.0	V	68.0	-2.0
3155.625000	---	41.98	54.00	12.02	200.0	V	123.0	1.0
3155.625000	43.71	---	74.00	30.29	200.0	V	123.0	1.0
3560.891667	---	54.95	54.00	-0.95	100.0	V	286.0	2.8
3564.491667	55.97	---	74.00	18.03	100.0	V	286.0	2.8
4212.916667	---	48.38	54.00	5.62	200.0	V	143.0	4.3
4212.916667	50.32	---	74.00	23.68	200.0	V	143.0	4.3
4923.766667	---	66.87	54.00	-12.87	200.0	V	229.0	7.3
4923.958333	67.06	---	74.00	6.94	200.0	V	229.0	7.3

## Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3560.891667	---	28.04	54.00	25.96	1000.0	100.0	V	286.0	2.8
3564.491667	40.62	---	74.00	33.38	1000.0	100.0	V	286.0	2.8
4923.766667	---	38.24	54.00	15.76	1000.0	200.0	V	229.0	7.3
4923.958333	68.03	---	74.00	5.97	1000.0	200.0	V	229.0	7.3

## 6 Photographs of the Test Set-Up

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

## 7 List of Tables

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