

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	8.84	8.84	---	PASS
			30~1000	8.84	-40.78	≤-11.16	PASS
			1000~26500	8.84	-31.44	≤-11.16	PASS
		2437	Reference	9.06	9.06	---	PASS
			30~1000	9.06	-41.72	≤-10.94	PASS
			1000~26500	9.06	-32.17	≤-10.94	PASS
		2462	Reference	7.96	7.96	---	PASS
			30~1000	7.96	-41.44	≤-12.04	PASS
			1000~26500	7.96	-32.22	≤-12.04	PASS
11G	Ant1	2412	Reference	3.02	3.02	---	PASS
			30~1000	3.02	-40.06	≤-16.98	PASS
			1000~26500	3.02	-32.03	≤-16.98	PASS
		2437	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-41.47	≤-16.71	PASS
			1000~26500	3.29	-31.98	≤-16.71	PASS
		2462	Reference	3.96	3.96	---	PASS
			30~1000	3.96	-40.74	≤-16.04	PASS
			1000~26500	3.96	-32.19	≤-16.04	PASS
11N20SISO	Ant1	2412	Reference	2.41	2.41	---	PASS
			30~1000	2.41	-40.98	≤-17.59	PASS
			1000~26500	2.41	-32.16	≤-17.59	PASS
		2437	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-41.02	≤-17.42	PASS
			1000~26500	2.58	-32.46	≤-17.42	PASS
		2462	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-41.53	≤-17.99	PASS
			1000~26500	2.01	-31.19	≤-17.99	PASS

11B Ant1 2412 0~Reference



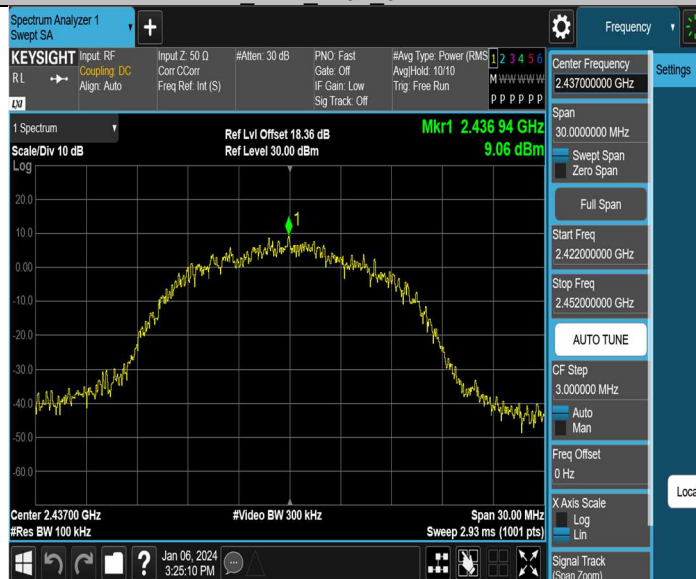
11B Ant1 2412 30~1000



11B Ant1 2412 1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500















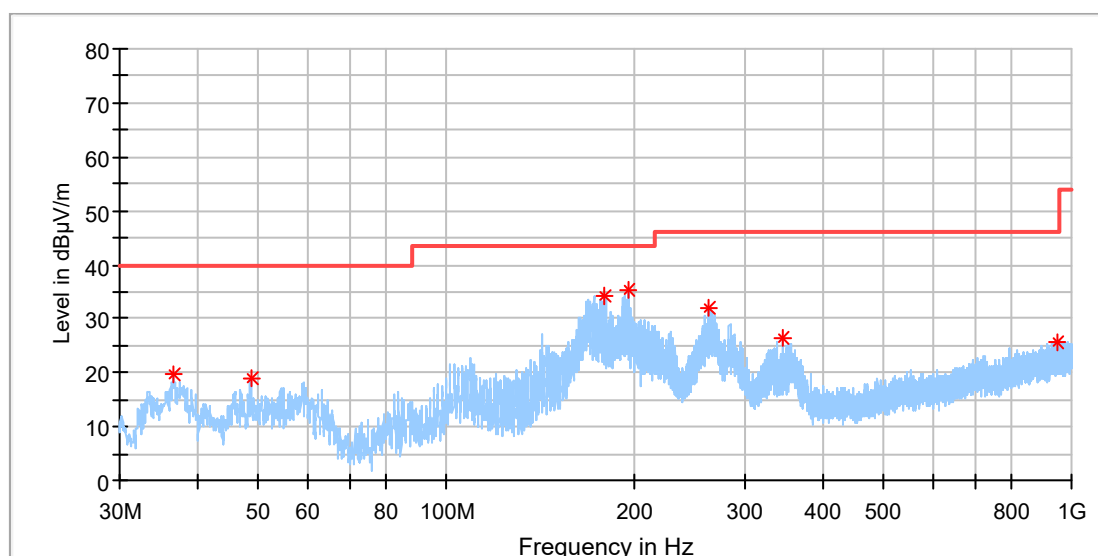
Appendix A.5: Test Results of Radiated Spurious Emissions

Note: 1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz 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 case was presented in this report.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

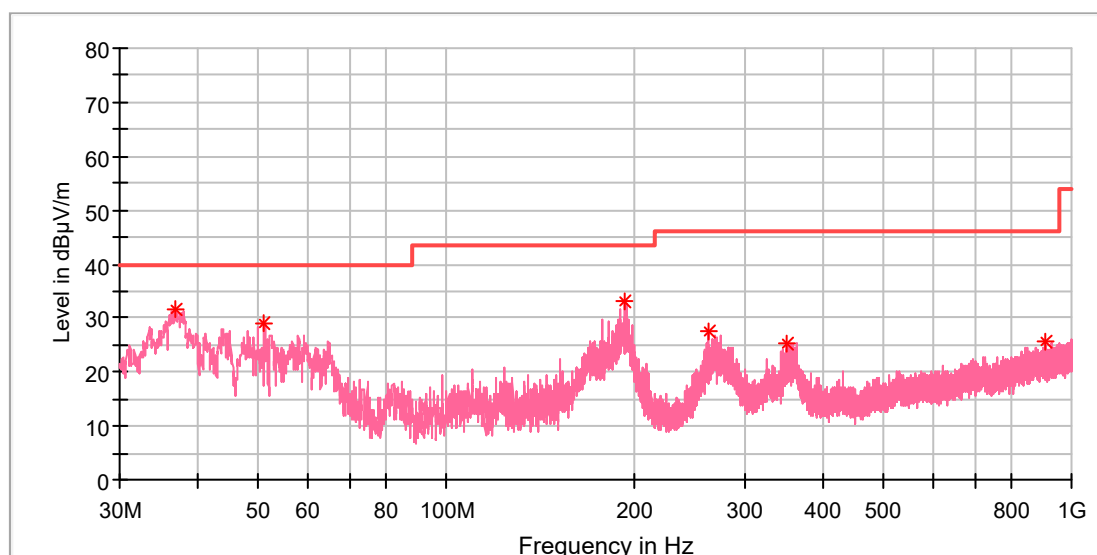
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.603462	19.70	40.00	20.30	100.0	H	23.0	-21.6
48.691154	18.96	40.00	21.04	100.0	H	96.0	-18.7
179.230769	34.27	43.50	9.23	100.0	H	88.0	-20.9
195.683462	35.35	43.50	8.15	100.0	H	111.0	-19.5
263.770000	31.98	46.00	14.02	100.0	H	207.0	-17.4
345.623077	26.27	46.00	19.73	100.0	H	119.0	-15.3
946.388846	25.85	46.00	20.15	100.0	H	287.0	-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:	Home Communication Unit
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Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.827308	31.61	40.00	8.39	100.0	V	12.0	-21.5
51.190769	29.15	40.00	10.85	100.0	V	48.0	-18.6
193.034615	32.94	43.50	10.56	100.0	V	348.0	-19.7
261.941923	27.66	46.00	18.34	100.0	V	146.0	-17.4
350.920769	25.48	46.00	20.52	100.0	V	348.0	-15.2
908.596154	25.69	46.00	20.31	100.0	V	106.0	-5.3

Final Result

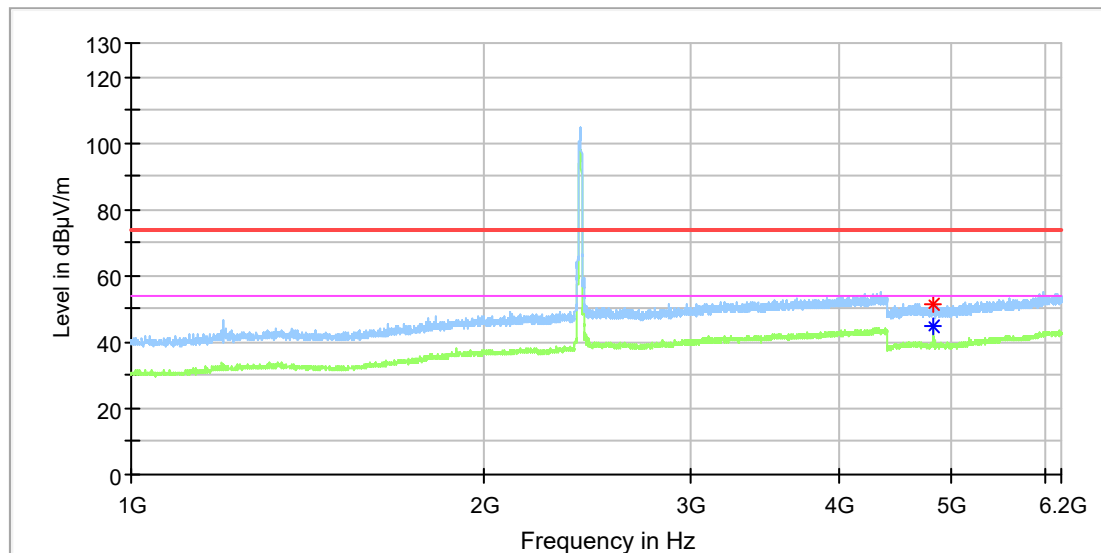
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

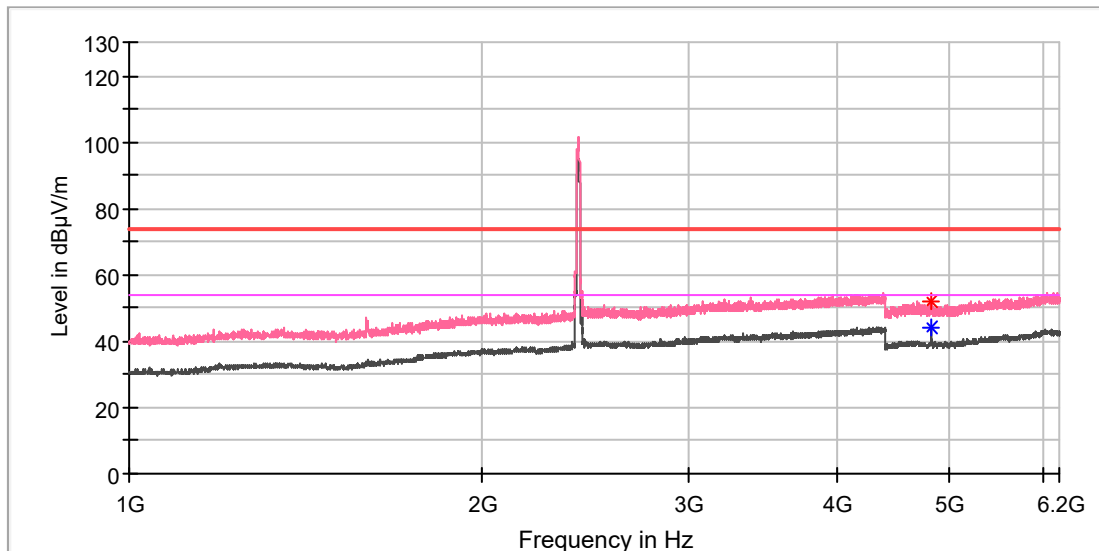
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.000000	51.30	---	74.00	22.70	150.0	H	329.0	11.8
4824.000000	---	44.77	54.00	9.23	150.0	H	46.0	11.8

Final_Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
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Critical Freqs

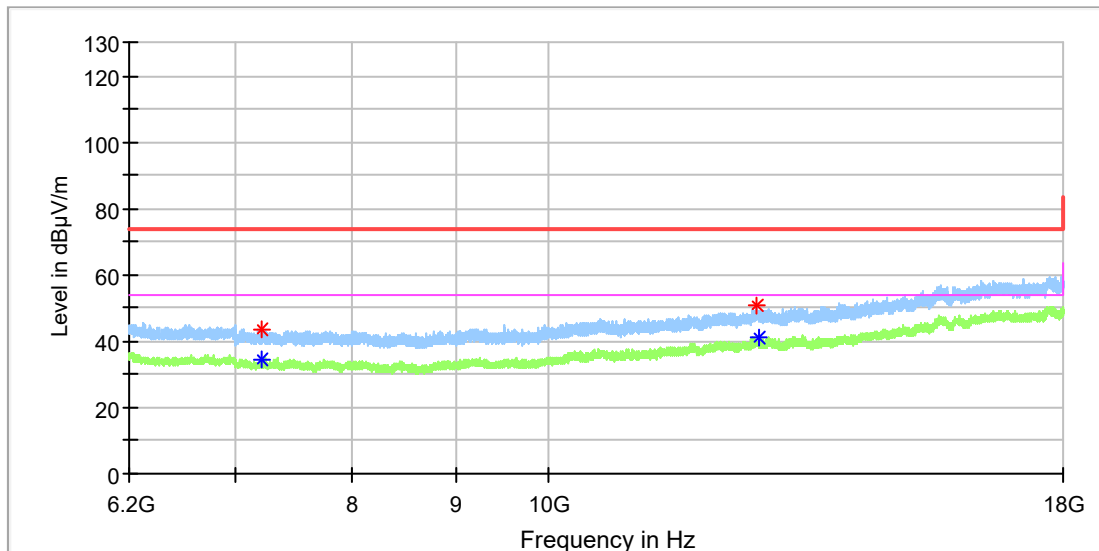
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.000000	52.07	---	74.00	21.93	150.0	V	38.0	11.8
4824.000000	---	43.91	54.00	10.09	150.0	V	3.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
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Critical_Freqs

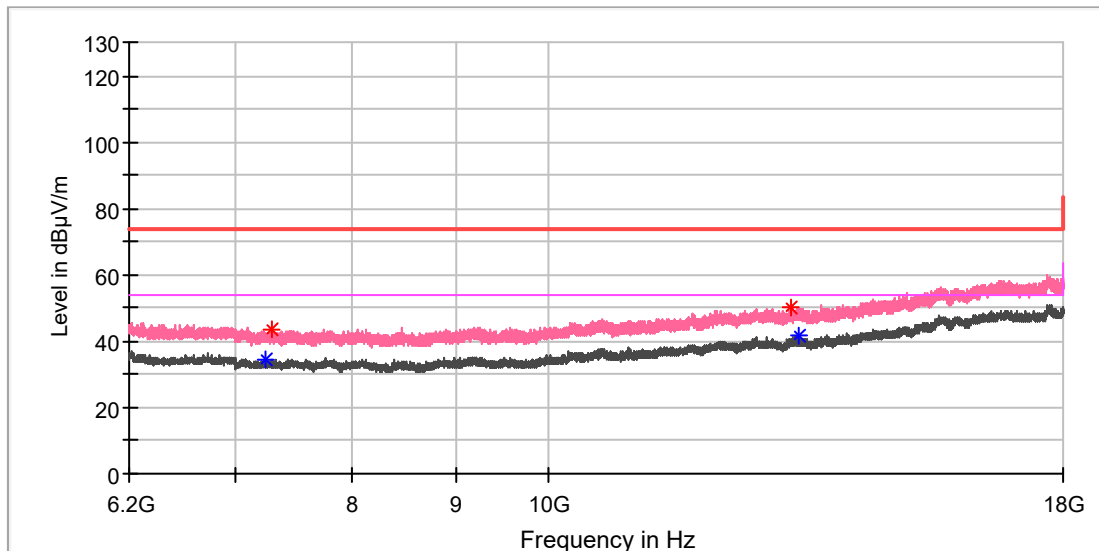
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7217.258333	43.37	---	74.00	30.63	150.0	H	21.0	8.7
7217.750000	---	34.33	54.00	19.68	150.0	H	133.0	8.7
12685.575000	50.65	---	74.00	23.35	150.0	H	157.0	15.1
12704.750000	---	40.85	54.00	13.15	150.0	H	326.0	15.1

Final_Result

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

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

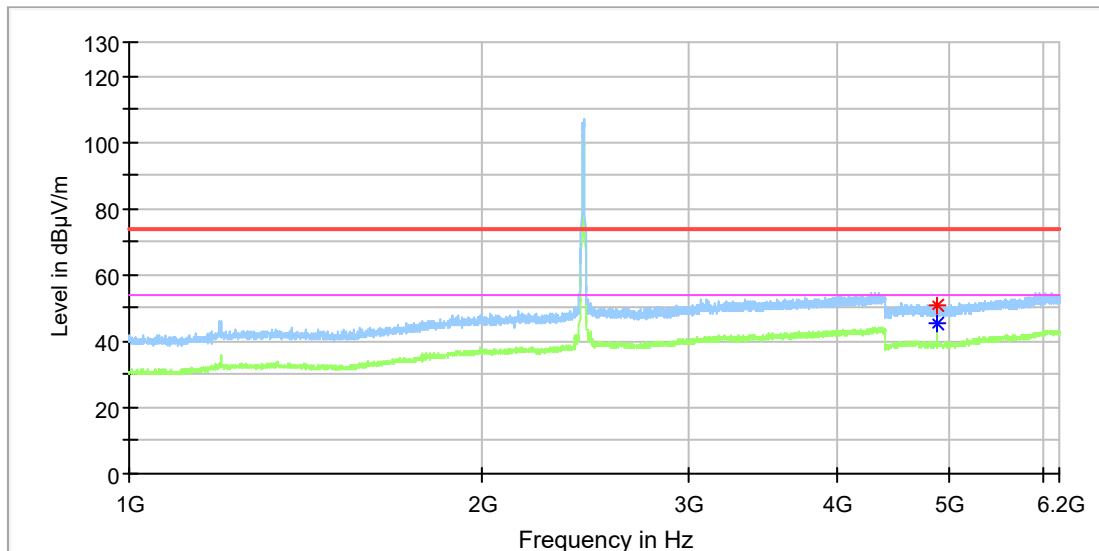
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7246.758333	---	34.42	54.00	19.58	150.0	V	325.0	8.6
7299.366667	43.58	---	74.00	30.42	150.0	V	289.0	8.3
13186.583333	50.28	---	74.00	23.72	150.0	V	169.0	15.4
13298.683333	---	41.67	54.00	12.33	150.0	V	0.0	15.5

Final_Result

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

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

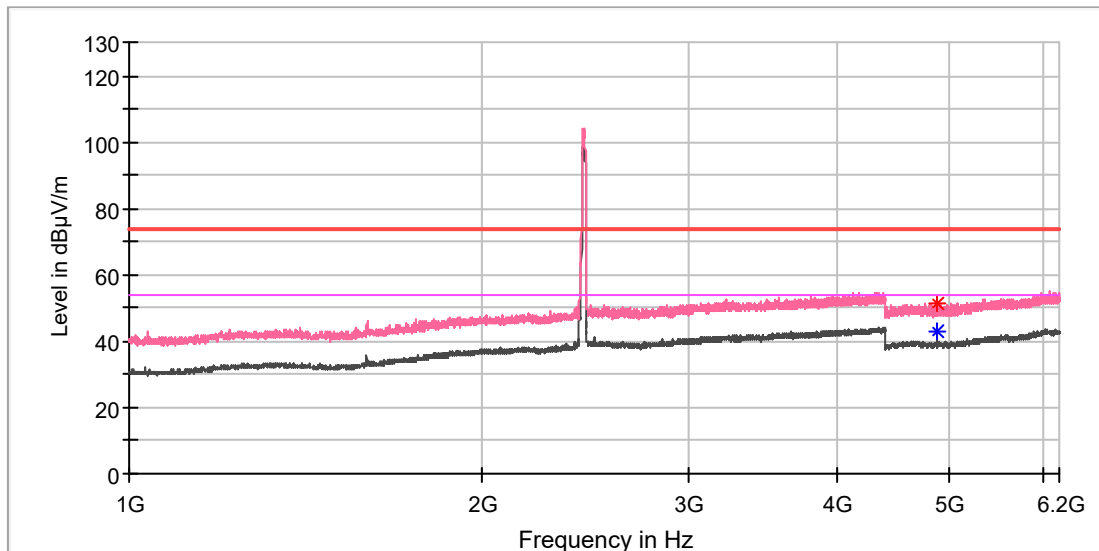
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	50.81	---	74.00	23.19	150.0	H	33.0	11.8
4874.000000	---	45.30	54.00	8.70	150.0	H	28.0	11.8

Final Result

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

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
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Critical Freqs

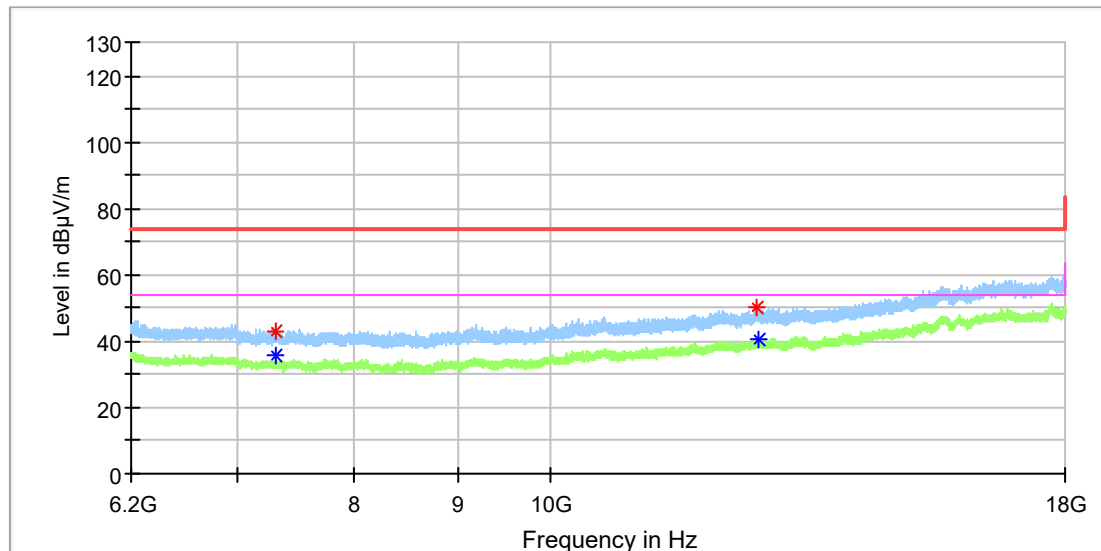
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	---	42.81	54.00	11.19	150.0	V	9.0	11.8
4874.500000	51.45	---	74.00	22.55	150.0	V	4.0	11.8

Final Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

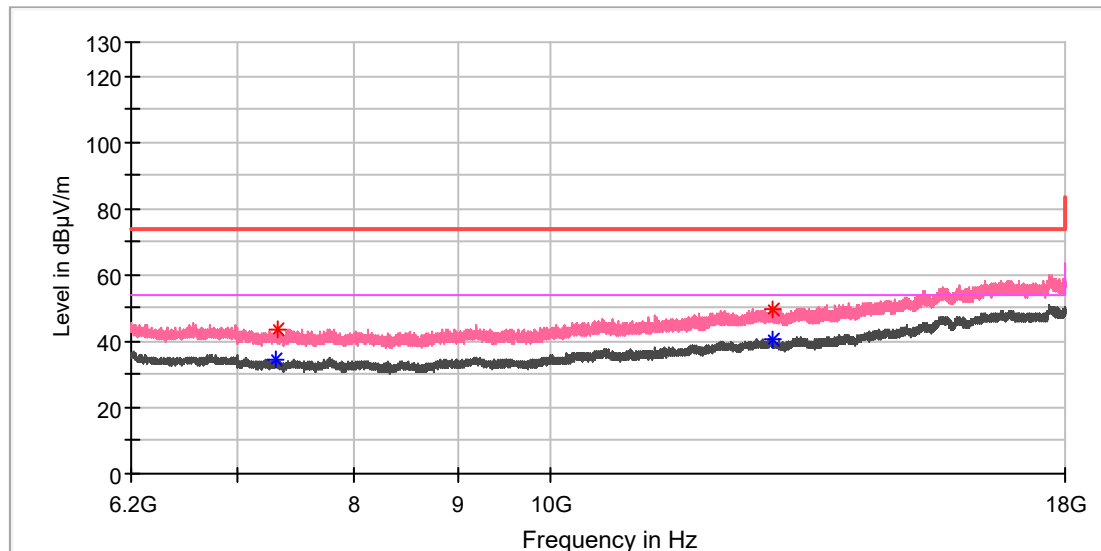
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.675000	---	35.82	54.00	18.18	150.0	H	224.0	8.2
7312.150000	43.22	---	74.00	30.78	150.0	H	0.0	8.2
12647.225000	49.99	---	74.00	24.01	150.0	H	323.0	15.0
12692.458333	---	40.78	54.00	13.22	150.0	H	0.0	15.1

Final Result

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

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

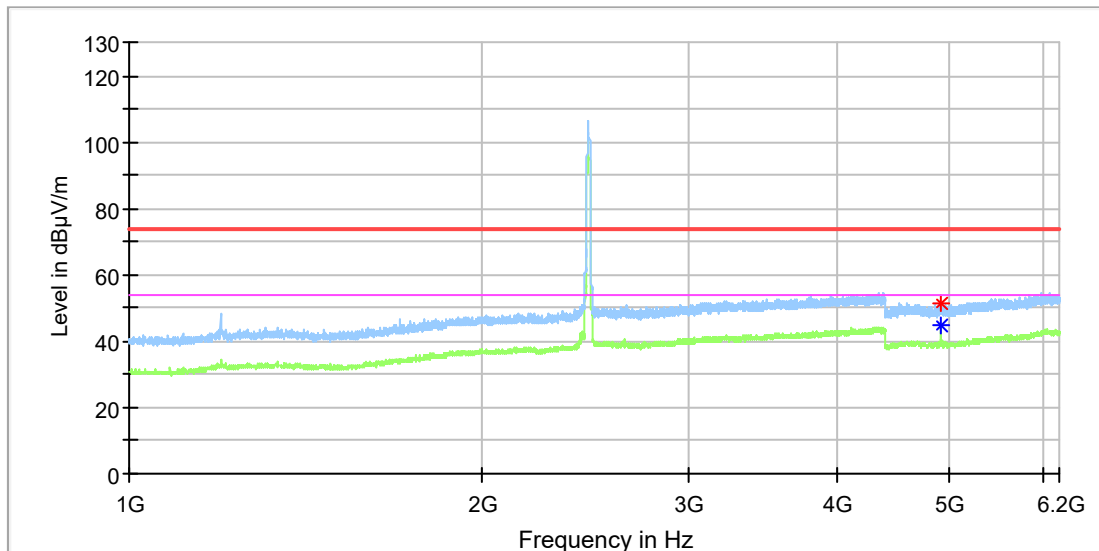
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7310.675000	---	34.54	54.00	19.46	150.0	V	0.0	8.2
7328.375000	43.31	---	74.00	30.69	150.0	V	208.0	8.1
12878.800000	49.32	---	74.00	24.68	150.0	V	185.0	15.4
12882.733333	---	40.67	54.00	13.33	150.0	V	112.0	15.4

Final_Result

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

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

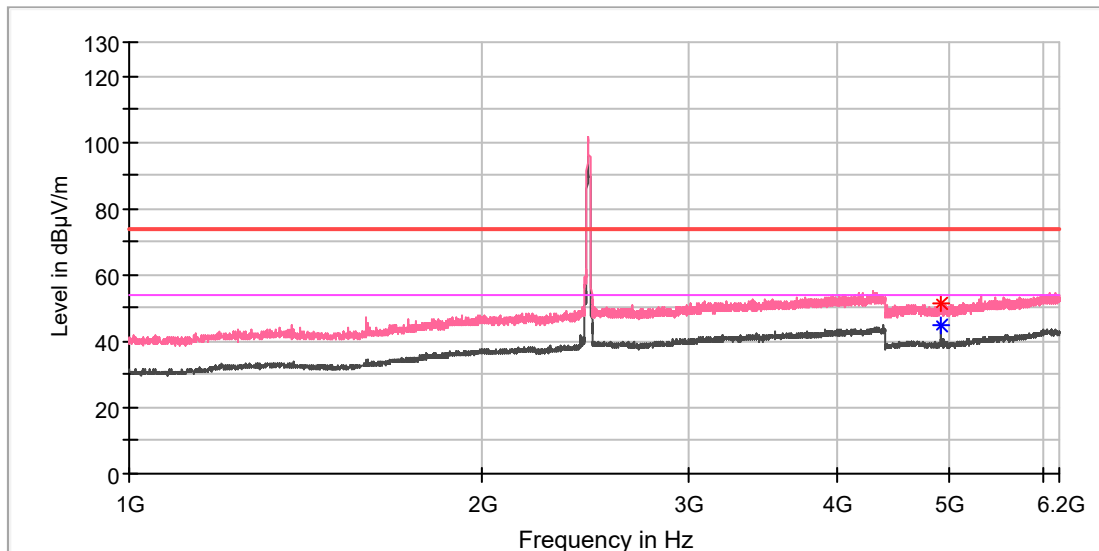
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	51.26	---	74.00	22.74	150.0	H	31.0	11.8
4923.500000	---	44.93	54.00	9.07	150.0	H	31.0	11.8

Final Result

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

EUT Information

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Critical Freqs

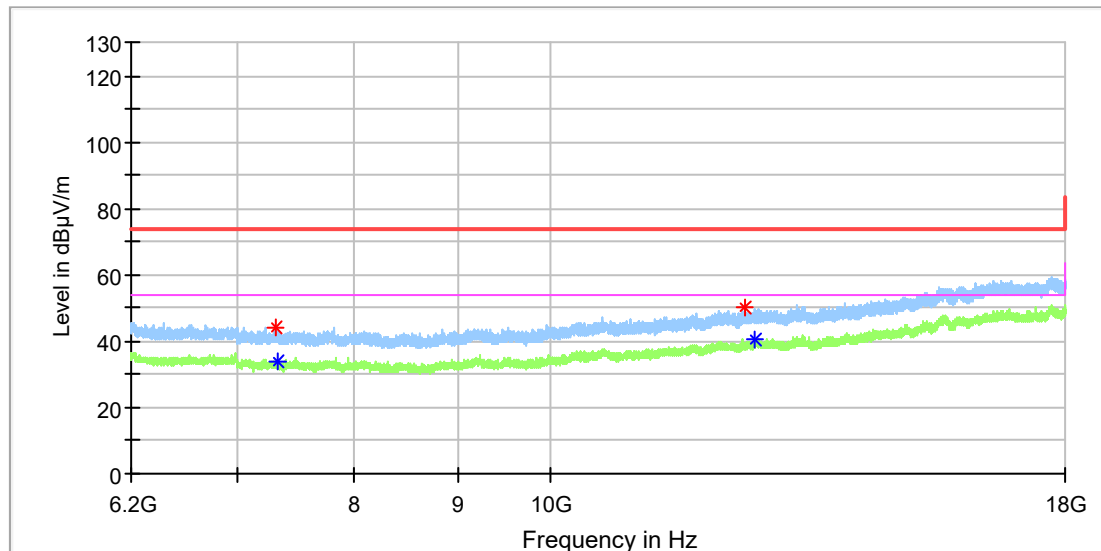
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	51.66	---	74.00	22.34	150.0	V	313.0	11.8
4924.000000	---	44.55	54.00	9.45	150.0	V	25.0	11.8

Final Result

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

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Model: HUB-300
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Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
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Critical_Freqs

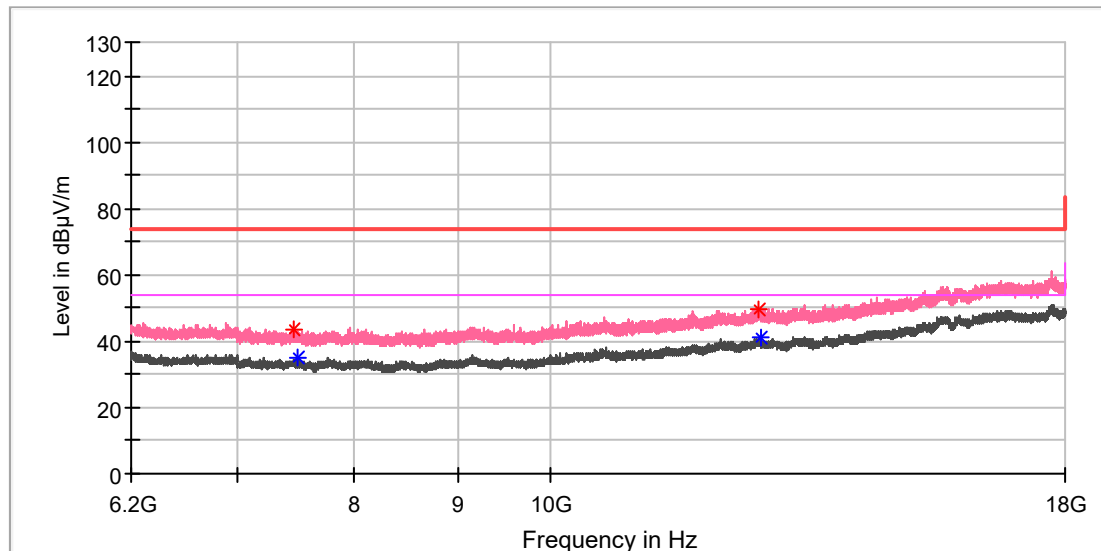
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.250000	43.95	---	74.00	30.05	150.0	H	286.0	8.3
7331.816667	---	34.12	54.00	19.88	150.0	H	336.0	8.1
12485.466667	50.07	---	74.00	23.93	150.0	H	57.0	14.6
12638.375000	---	40.77	54.00	13.23	150.0	H	20.0	15.0

Final_Result

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

EUT Information

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Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
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Critical_Freqs

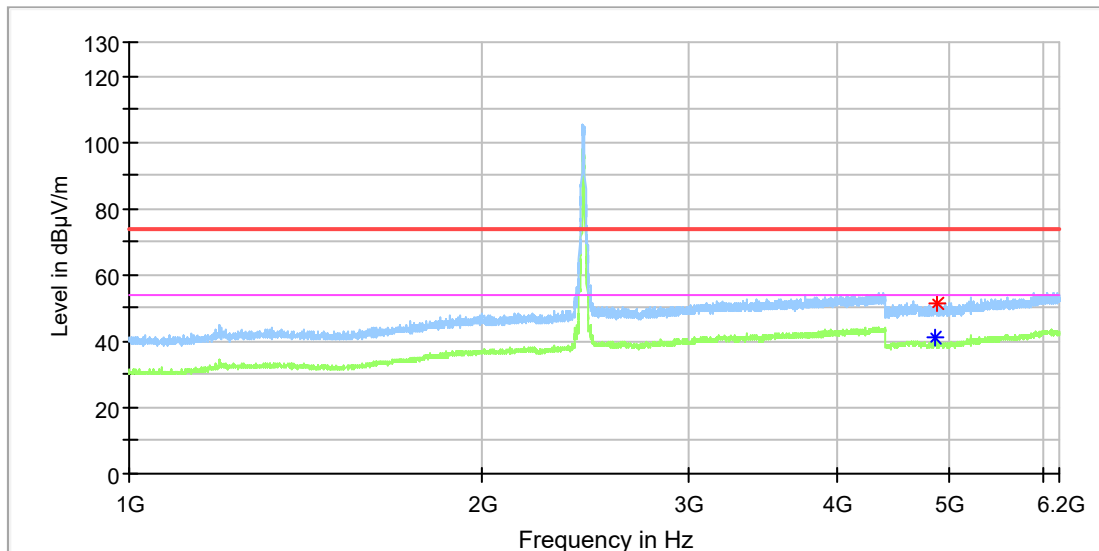
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7457.191667	43.76	---	74.00	30.24	150.0	V	259.0	8.5
7489.641667	---	35.16	54.00	18.84	150.0	V	0.0	8.7
12677.216667	49.44	---	74.00	24.56	150.0	V	84.0	15.1
12703.275000	---	40.92	54.00	13.08	150.0	V	5.0	15.1

Final_Result

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

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Critical Freqs

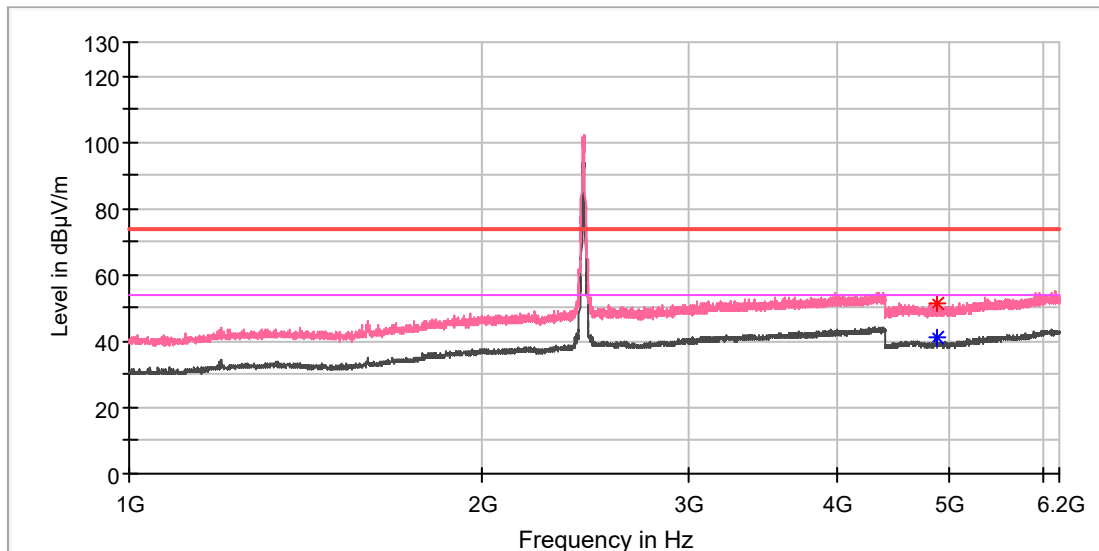
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4867.000000	---	41.30	54.00	12.70	150.0	H	31.0	11.8
4874.000000	51.27	---	74.00	22.73	150.0	H	31.0	11.8

Final Result

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

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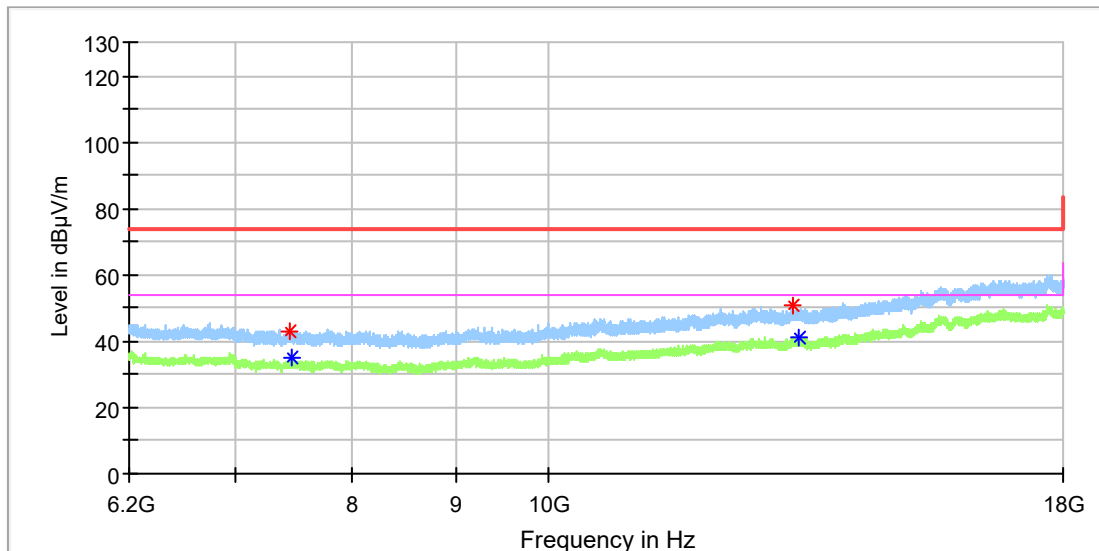
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	51.25	---	74.00	22.75	150.0	V	6.0	11.8
4873.500000	---	41.12	54.00	12.88	150.0	V	18.0	11.8

Final Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

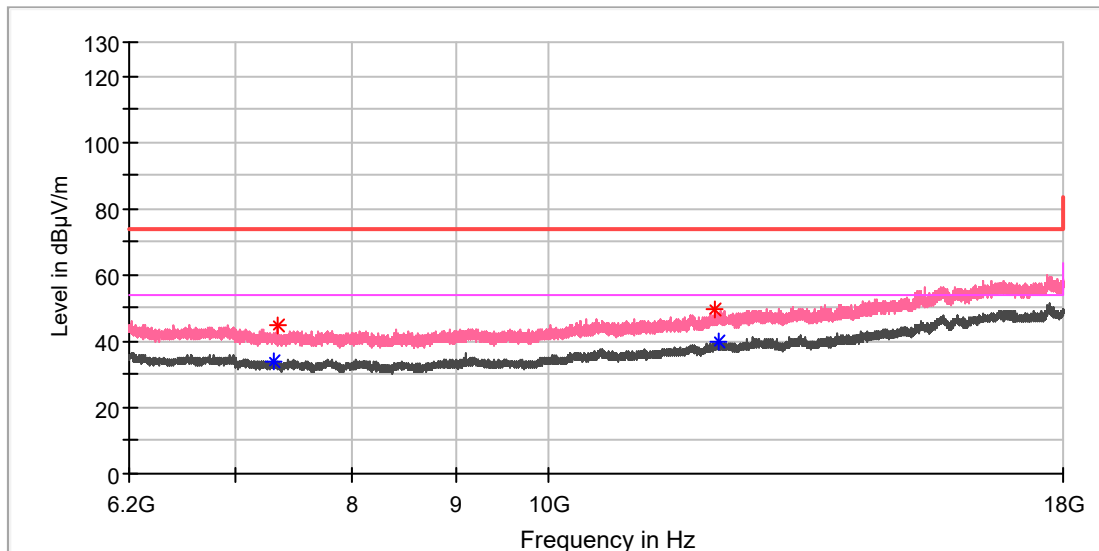
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7442.933333	42.88	---	74.00	31.12	150.0	H	135.0	8.4
7464.566667	---	34.80	54.00	19.20	150.0	H	336.0	8.6
13216.575000	50.70	---	74.00	23.30	150.0	H	325.0	15.5
13303.108333	---	41.08	54.00	12.92	150.0	H	289.0	15.5

Final_Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

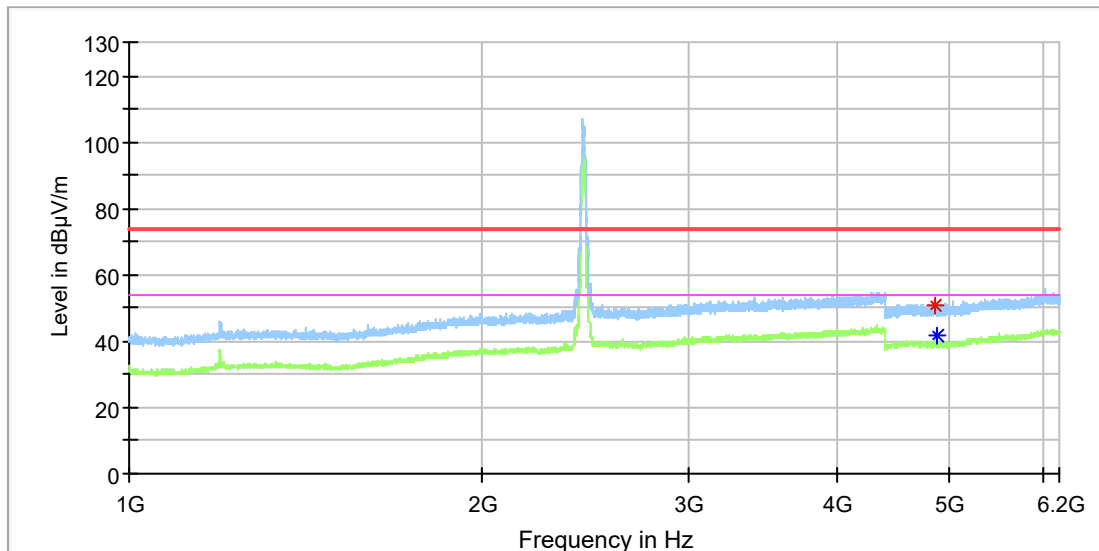
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7304.775000	---	33.99	54.00	20.01	150.0	V	119.0	8.3
7335.258333	44.65	---	74.00	29.35	150.0	V	331.0	8.1
12086.233333	49.40	---	74.00	24.60	150.0	V	143.0	14.1
12144.741667	---	39.83	54.00	14.17	150.0	V	119.0	14.4

Final_Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

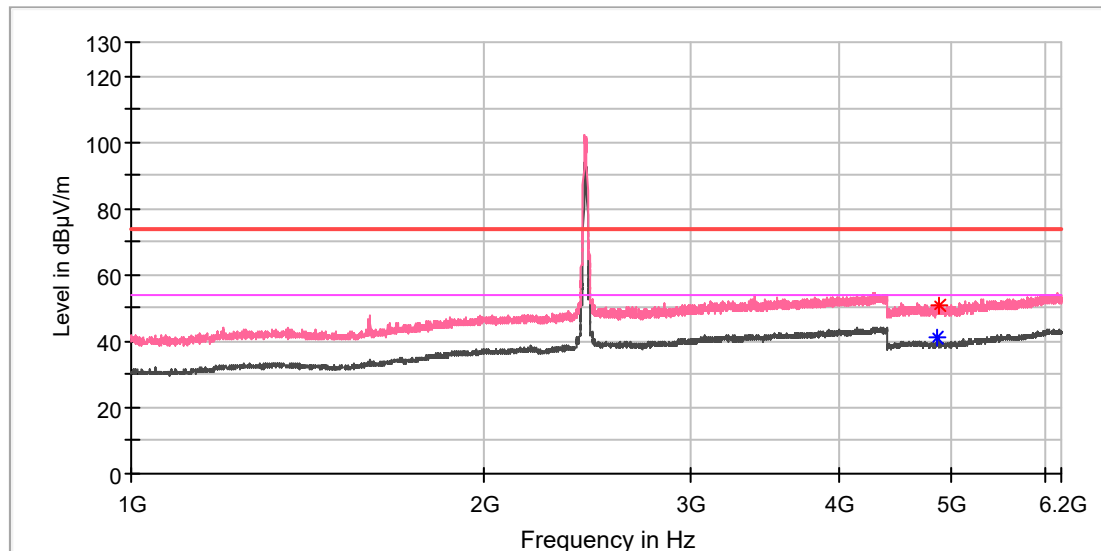
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4868.000000	50.78	---	74.00	23.22	150.0	H	26.0	11.8
4872.000000	---	41.57	54.00	12.43	150.0	H	26.0	11.8

Final Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

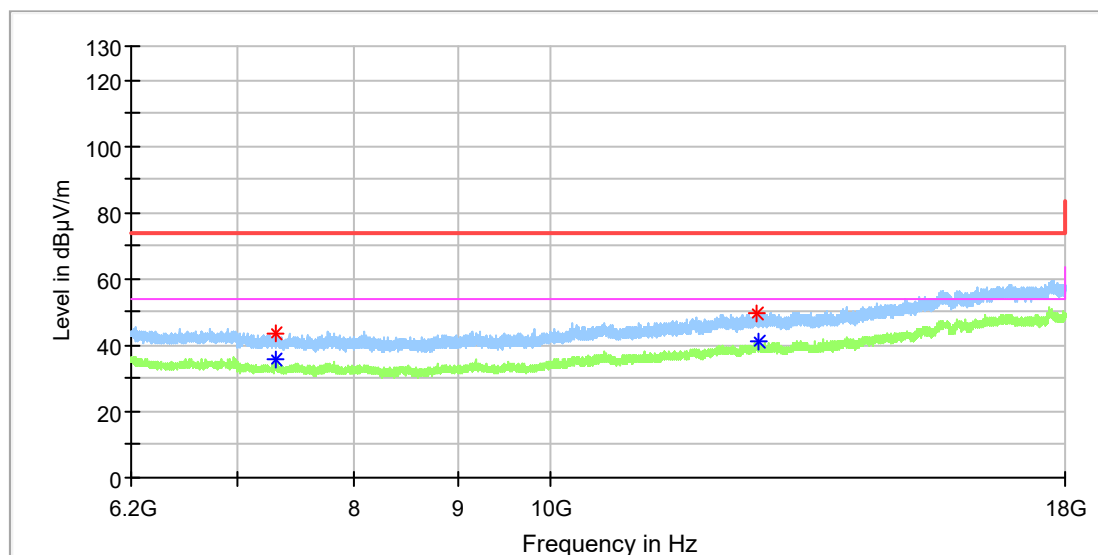
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4868.000000	---	40.92	54.00	13.08	150.0	V	321.0	11.8
4875.000000	50.53	---	74.00	23.47	150.0	V	220.0	11.8

Final Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

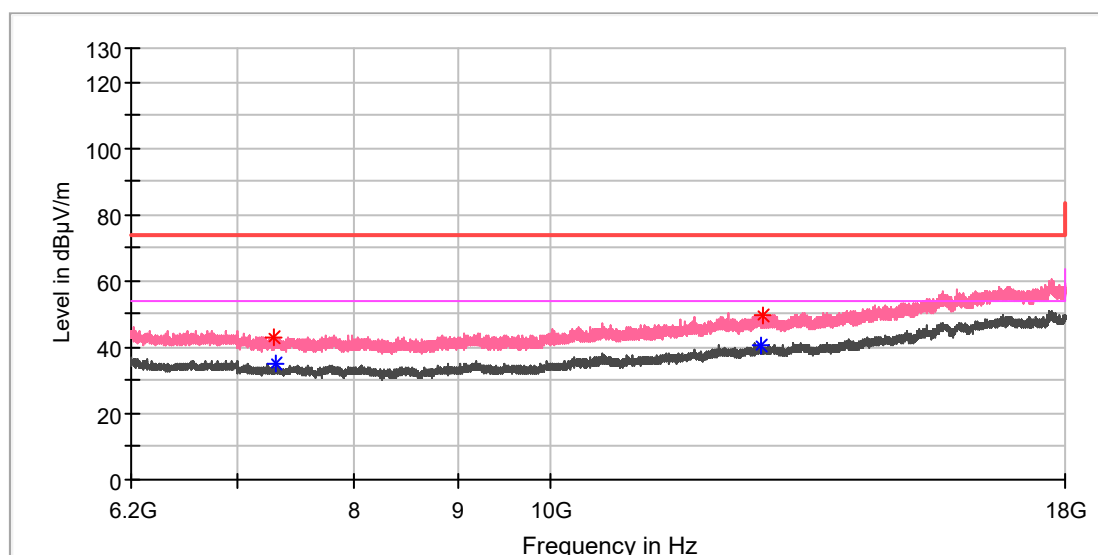
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.675000	43.64	---	74.00	30.36	150.0	H	237.0	8.2
7310.675000	---	35.38	54.00	18.62	150.0	H	237.0	8.2
12647.225000	49.61	---	74.00	24.39	150.0	H	153.0	15.0
12675.250000	---	41.32	54.00	12.68	150.0	H	165.0	15.1

Final_Result

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

EUT Information

EUT Name: Home Communication Unit
 Model: HUB-300
 Test Mode: WIFI 2.4G_11n20_Ch6
 Order No/Sample No: 168443071/A003550494-002
 Test Voltage: AC 120V/60Hz
 Remark: Temp 22 Humi:52%
 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)
7299.366667	42.78	---	74.00	31.22	150.0	V	142.0	8.3
7310.183333	---	34.84	54.00	19.16	150.0	V	287.0	8.2
12711.633333	---	40.80	54.00	13.20	150.0	V	130.0	15.1
12755.391667	49.46	---	74.00	24.54	150.0	V	357.0	15.2

Final_Result

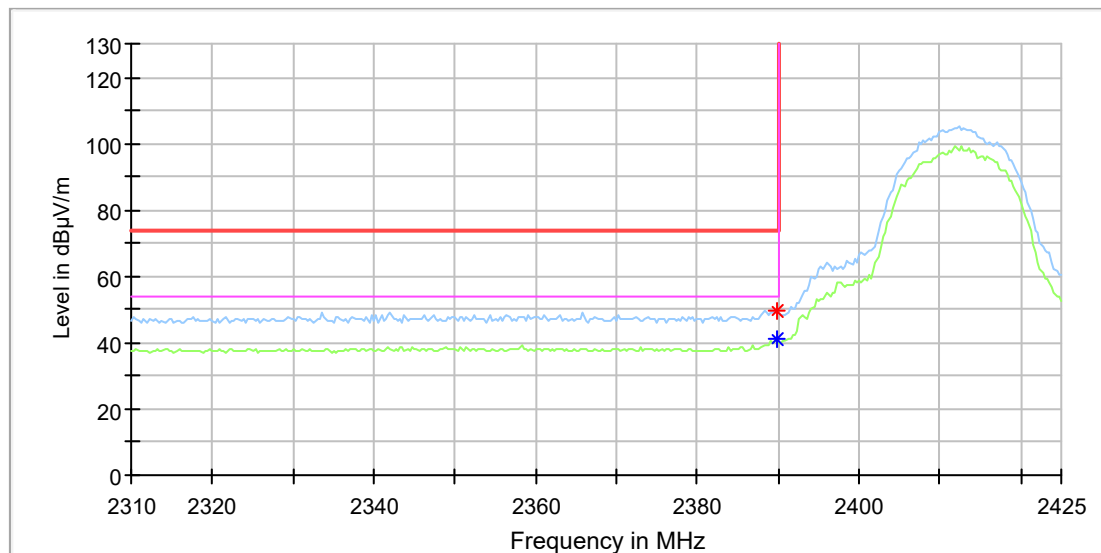
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

Wi-Fi 802.11 b mode

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

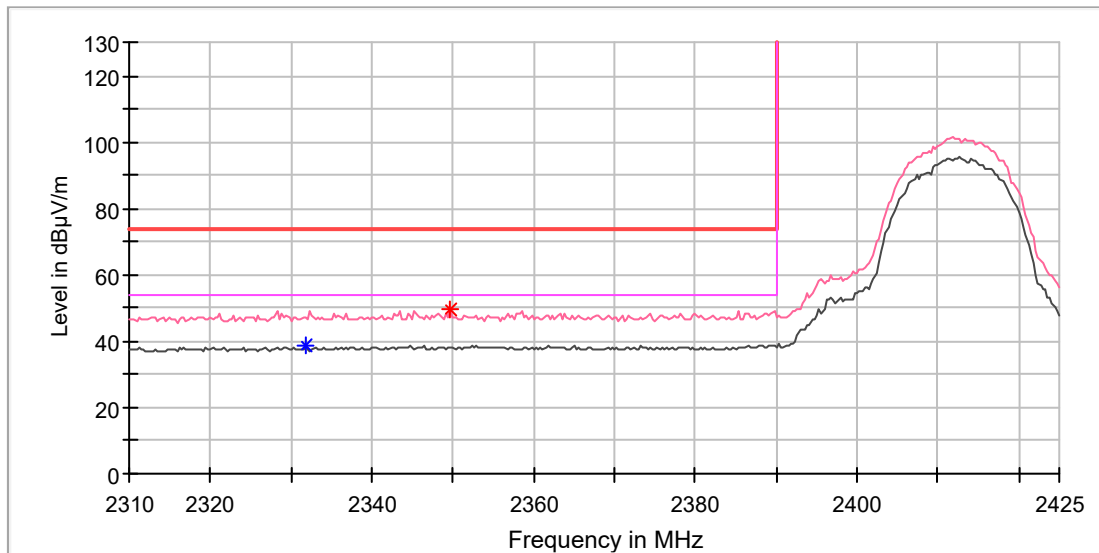
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.705882	---	40.87	54.00	13.13	150.0	H	221.0	7.0
2389.705882	49.40	---	74.00	24.60	150.0	H	221.0	7.0

Final Result

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

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

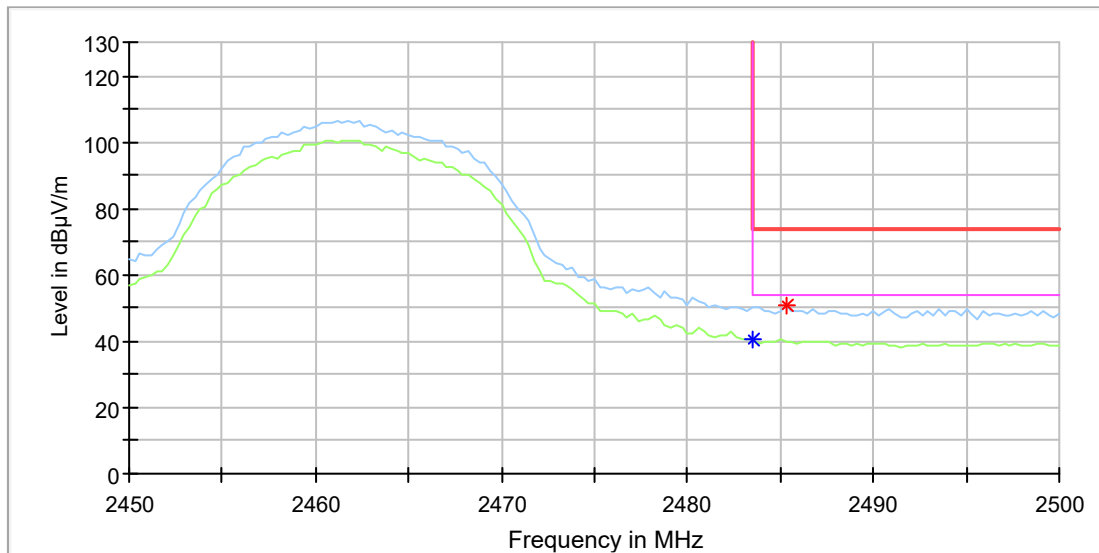
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2331.764706	---	38.62	54.00	15.38	150.0	V	59.0	6.7
2349.705882	49.40	---	74.00	24.60	150.0	V	92.0	6.9

Final Result

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

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

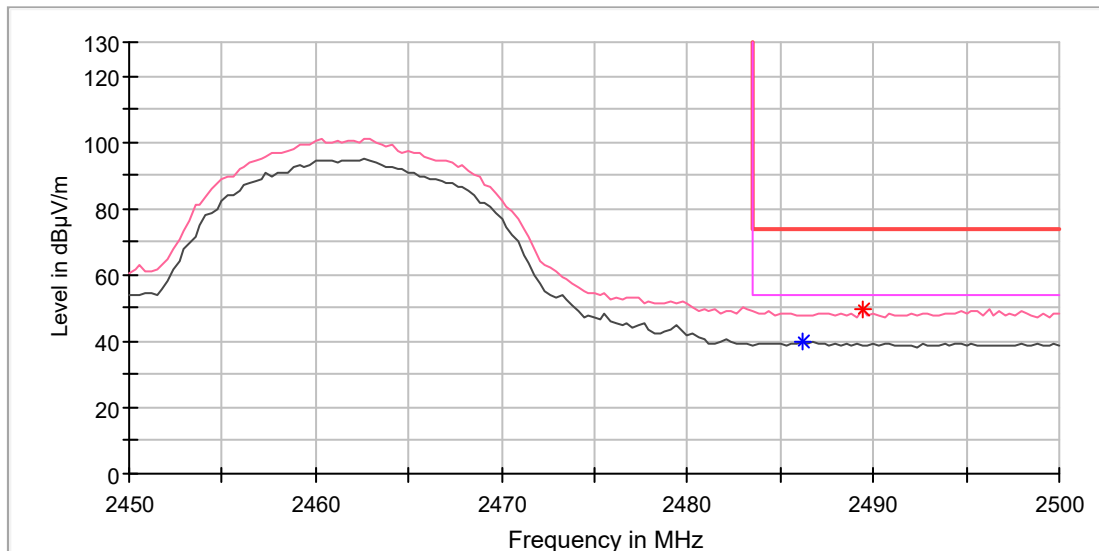
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	40.29	54.00	13.71	150.0	H	322.0	7.4
2485.294118	50.68	---	74.00	23.32	150.0	H	329.0	7.4

Final_Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
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	---	40.11	54.00	13.89	150.0	V	46.0	7.4
2489.411765	49.45	---	74.00	24.55	150.0	V	106.0	7.4

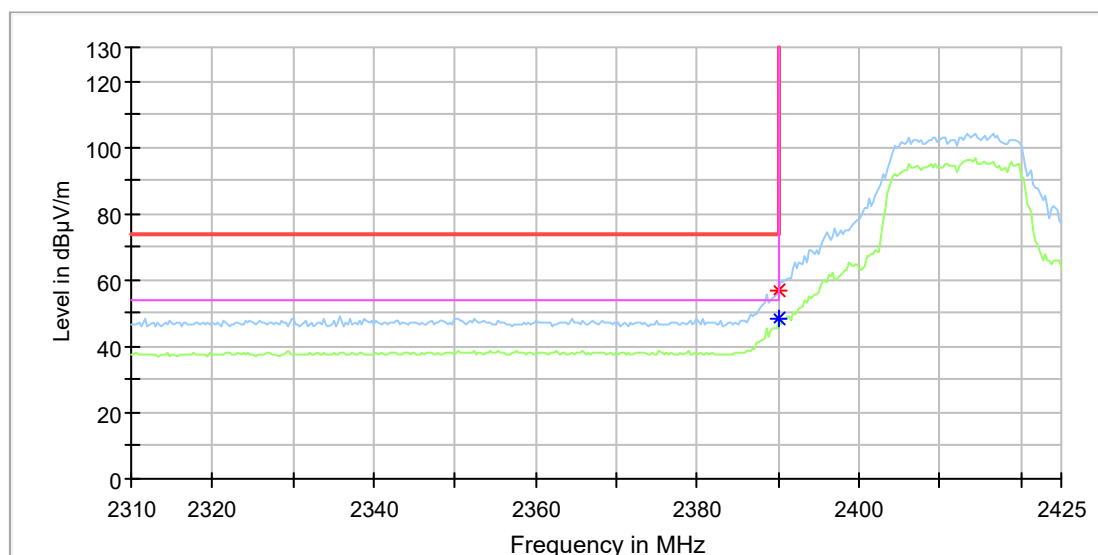
Final Result

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

Wi-Fi 802.11 g mode

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

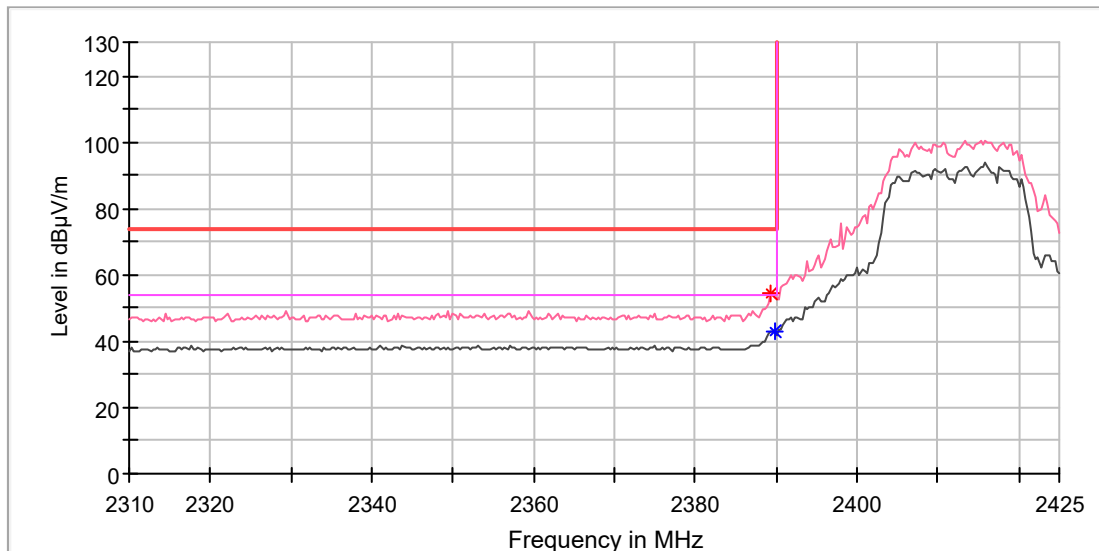
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	56.67	---	74.00	17.33	150.0	H	232.0	7.0
2390.000000	---	48.27	54.00	5.73	150.0	H	232.0	7.0

Final Result

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

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: WIFI 2.4G_11g_Ch1
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

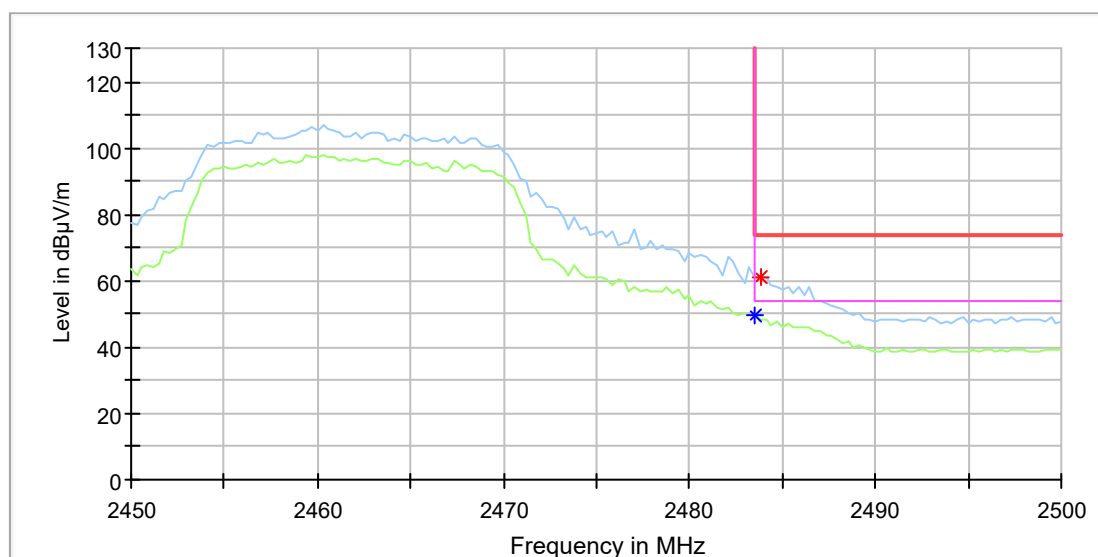
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	54.46	---	74.00	19.54	150.0	V	277.0	7.0
2389.705882	---	43.21	54.00	10.79	150.0	V	254.0	7.0

Final Result

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

EUT Information

EUT Name: Home Communication Unit
 Model: HUB-300
 Test Mode: WIFI 2.4G_11g_Ch11
 Order No/Sample No: 168443071/A003550494-002
 Test Voltage: AC 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

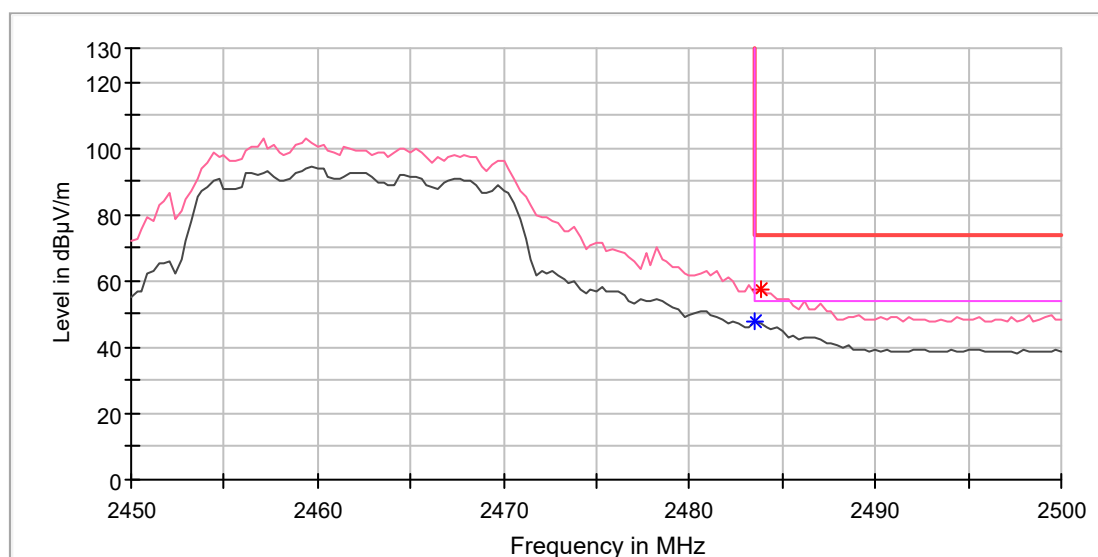
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	49.44	54.00	4.56	150.0	H	328.0	7.4
2483.823529	61.01	---	74.00	12.99	150.0	H	212.0	7.4

Final Result

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

EUT Information

EUT Name: Home Communication Unit
 Model: HUB-300
 Test Mode: WIFI 2.4G_11g_Ch11
 Order No/Sample No: 168443071/A003550494-002
 Test Voltage: AC 120V/60Hz
 Remark: Temp 22 Humi:52%
 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	---	47.51	54.00	6.49	150.0	V	139.0	7.4
2483.823529	57.67	---	74.00	16.33	150.0	V	139.0	7.4

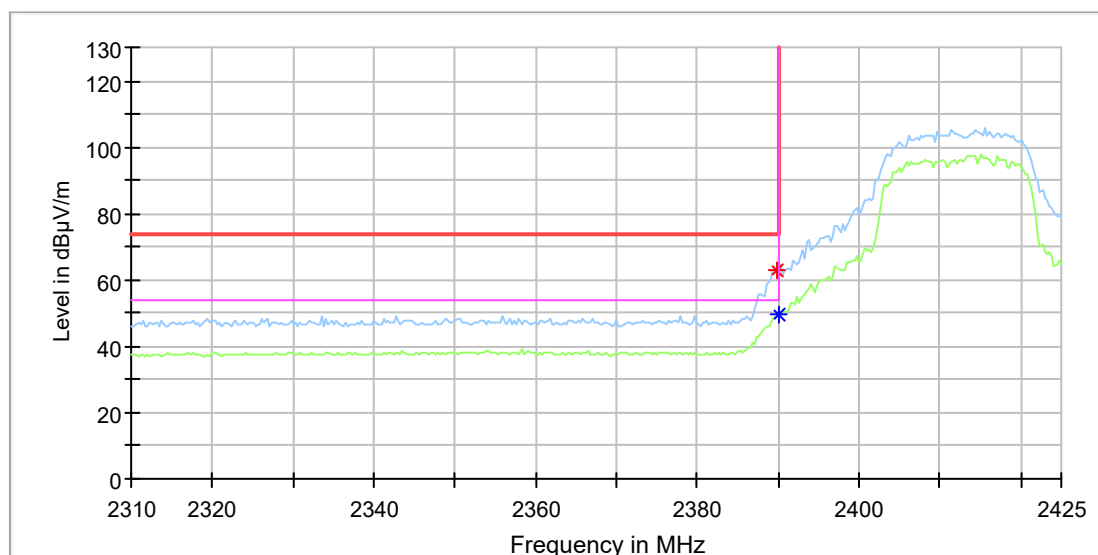
Final Result

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

Wi-Fi 802.11 n(HT20) mode

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

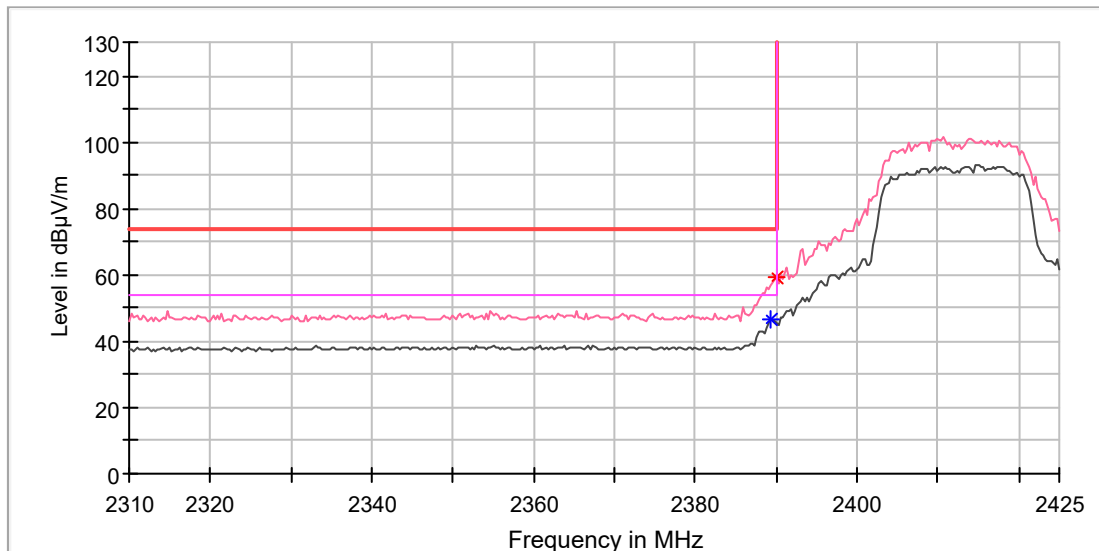
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.705882	62.82	---	74.00	11.18	150.0	H	193.0	7.0
2390.000000	---	49.48	54.00	4.52	150.0	H	0.0	7.0

Final Result

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

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

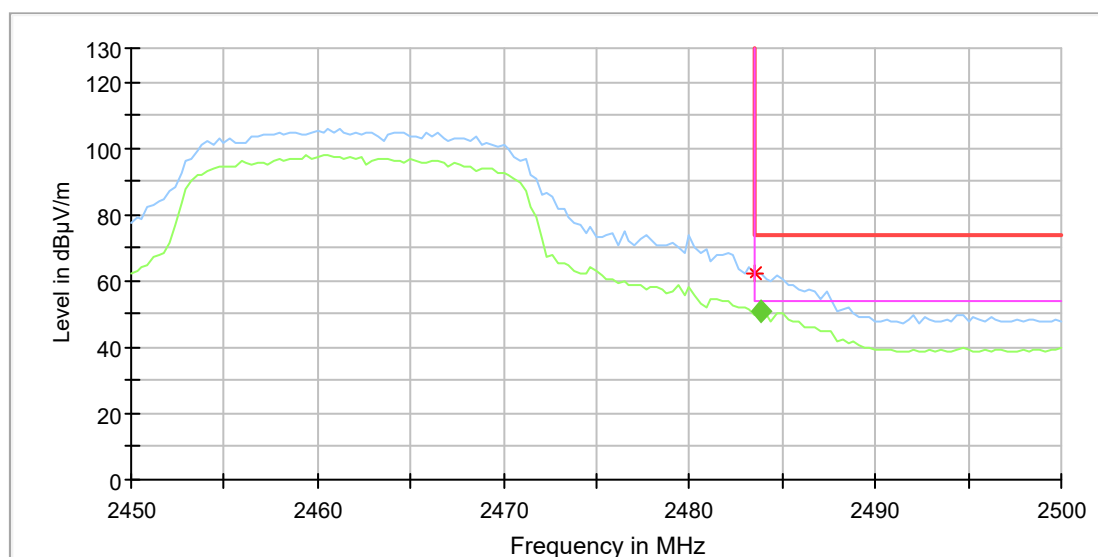
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	---	46.36	54.00	7.64	150.0	V	283.0	7.0
2390.000000	59.42	---	74.00	14.58	150.0	V	253.0	7.0

Final_Result

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

EUT Information

EUT Name: Home Communication Unit
 Model: HUB-300
 Test Mode: WIFI 2.4G_11n20_Ch11
 Order No/Sample No: 168443071/A003550494-002
 Test Voltage: AC 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

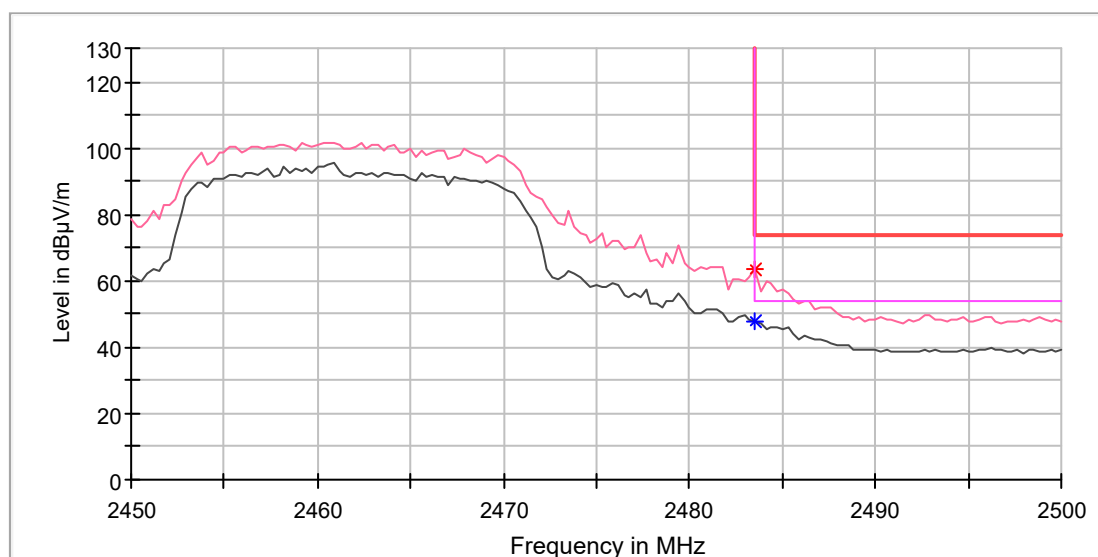
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	62.33	---	74.00	11.67	150.0	H	230.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	50.74	54.00	3.26	148.0	H	232.0	7.4

EUT Information

EUT Name:	Home Communication Unit
Model:	HUB-300
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168443071/A003550494-002
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
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	63.31	---	74.00	10.69	150.0	V	139.0	7.4
2483.529412	---	47.82	54.00	6.18	150.0	V	139.0	7.4

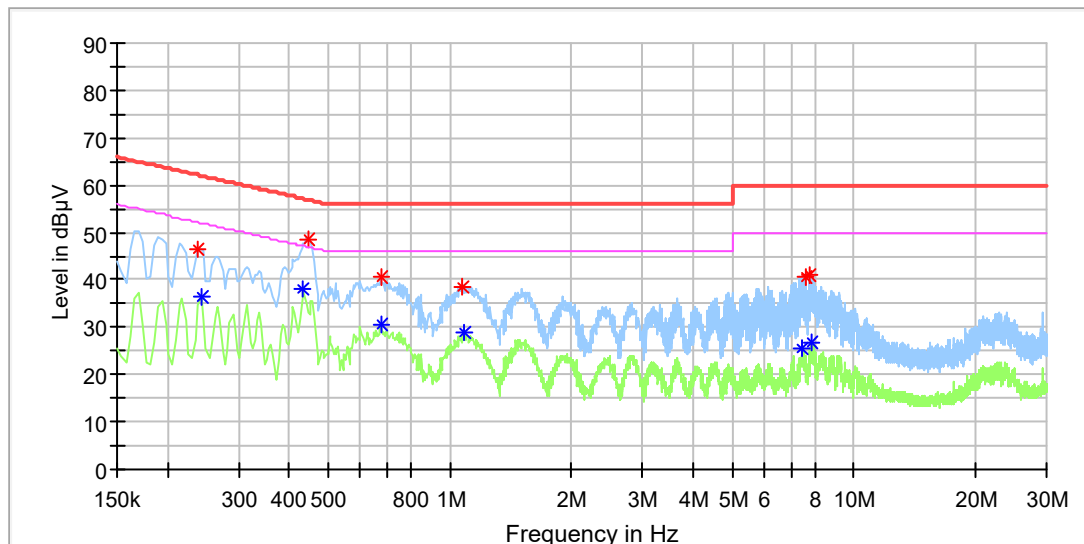
Final Result

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

Appendix A.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: 915MHz
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.207
Tested By: Kei Zhang
Reviewed By: Terry Yin

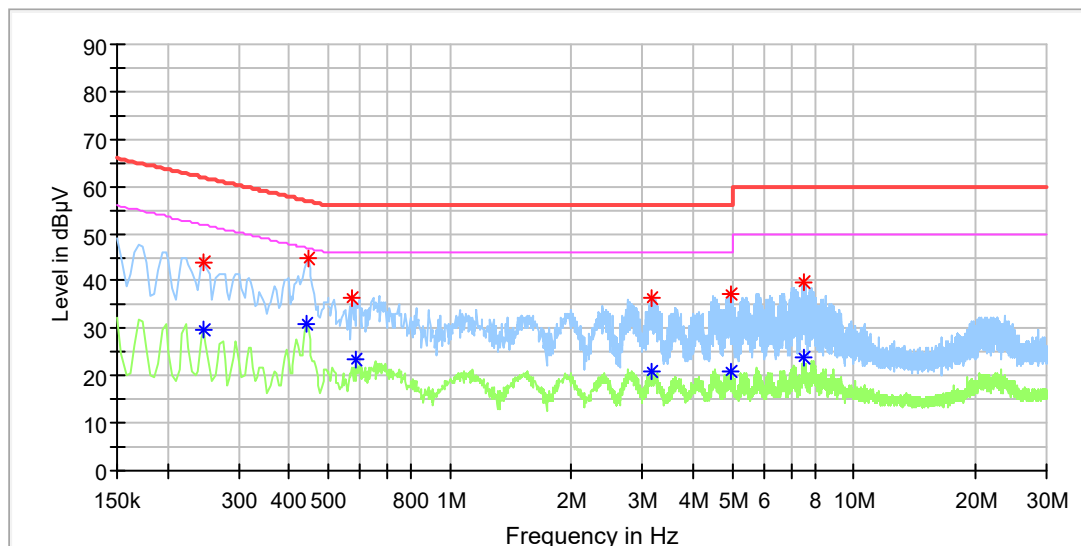


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.238000	46.33	---	62.17	15.83	L1	9.8
0.242000	---	36.58	52.03	15.45	L1	9.8
0.434000	---	38.26	47.18	8.91	L1	9.9
0.446000	48.67	---	56.95	8.28	L1	9.9
0.676000	---	30.59	46.00	15.41	L1	9.8
0.676000	40.54	---	56.00	15.46	L1	9.8
1.080000	38.37	---	56.00	17.63	L1	9.7
1.092000	---	28.80	46.00	17.20	L1	9.7
7.456000	---	25.60	50.00	24.40	L1	9.9
7.568000	40.42	---	60.00	19.58	L1	9.9
7.804000	40.84	---	60.00	19.16	L1	9.9
7.892000	---	26.73	50.00	23.27	L1	9.9

EUT Information

EUT Name: Home Communication Unit
Model: HUB-300
Test Mode: 915MHz
Order No/Sample No: 168443071/A003550494-002
Test Voltage: AC 120V/60Hz
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.207
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.246000	---	29.62	51.89	22.27	N	9.7
0.246000	44.09	---	61.89	17.81	N	9.7
0.442000	---	31.15	47.02	15.88	N	9.7
0.446000	44.64	---	56.95	12.31	N	9.7
0.572000	36.40	---	56.00	19.60	N	9.7
0.588000	---	23.63	46.00	22.37	N	9.7
3.156000	36.56	---	56.00	19.44	N	10.0
3.164000	---	20.84	46.00	25.16	N	10.0
4.936000	---	21.07	46.00	24.93	N	10.0
4.964000	37.20	---	56.00	18.80	N	10.0
7.520000	---	23.97	50.00	26.03	N	9.9
7.556000	39.63	---	60.00	20.37	N	10.0