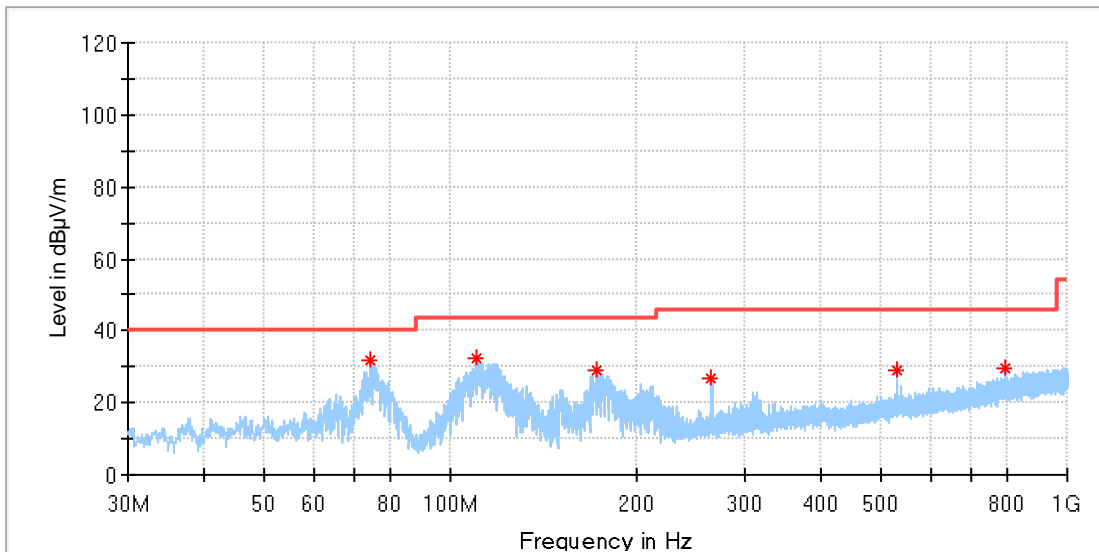


Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.5: Test Results of Radiated Spurious Emissions 30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	BT & WLAN Module
Model:	BTWDB01
Test Mode:	WIFI 2.4G_11b_Ch1
Test Voltage::	DC 3.3V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

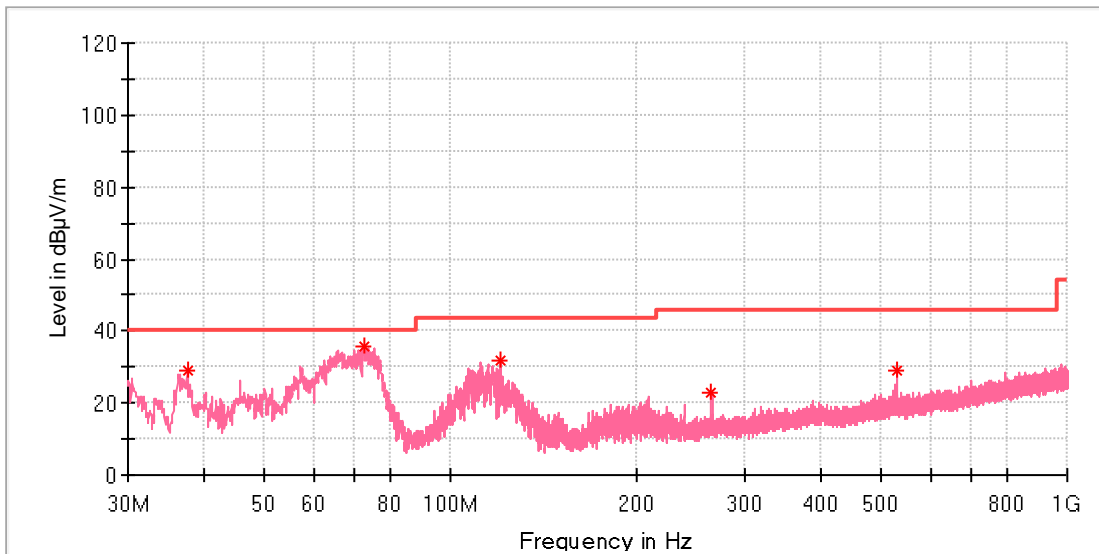


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
74.038000	31.60	40.00	8.40	100.0	H	230.0	-23.1
110.316000	32.27	43.50	11.23	100.0	H	250.0	-19.1
172.444500	28.88	43.50	14.62	100.0	H	327.0	-21.0
265.225000	26.54	46.00	19.46	100.0	H	271.0	-17.0
530.520000	29.15	46.00	16.85	100.0	H	140.0	-11.3
795.718000	29.52	46.00	16.48	100.0	H	327.0	-6.4

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Ch1
 Test Voltage: DC 3.3V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

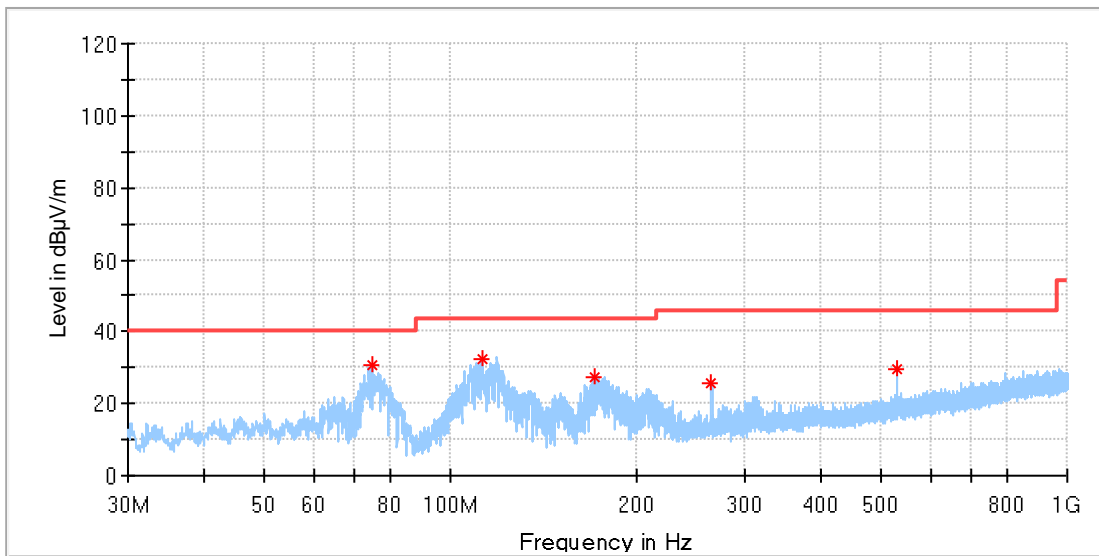


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	29.27	40.00	10.73	100.0	V	149.0	-21.0
72.534500	35.78	40.00	4.22	100.0	V	259.0	-22.7
120.355500	32.03	43.50	11.47	100.0	V	336.0	-20.8
265.225000	22.74	46.00	23.26	100.0	V	346.0	-17.0
530.520000	29.16	46.00	16.84	100.0	V	79.0	-11.3

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Ch11
 Test Voltage:: DC 3.3V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

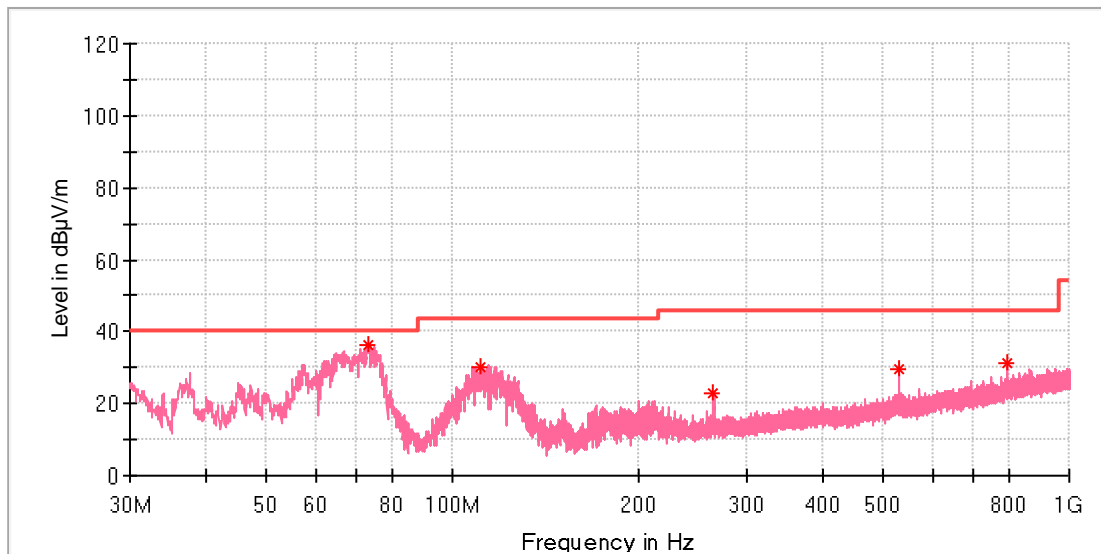


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
74.862500	30.85	40.00	9.15	100.0	H	232.0	-23.4
112.304500	32.56	43.50	10.94	100.0	H	232.0	-19.4
171.474500	27.36	43.50	16.14	100.0	H	338.0	-21.1
265.225000	25.52	46.00	20.48	100.0	H	285.0	-17.0
530.520000	29.72	46.00	16.28	100.0	H	294.0	-11.3

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Ch11
 Test Voltage:: DC 3.3V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

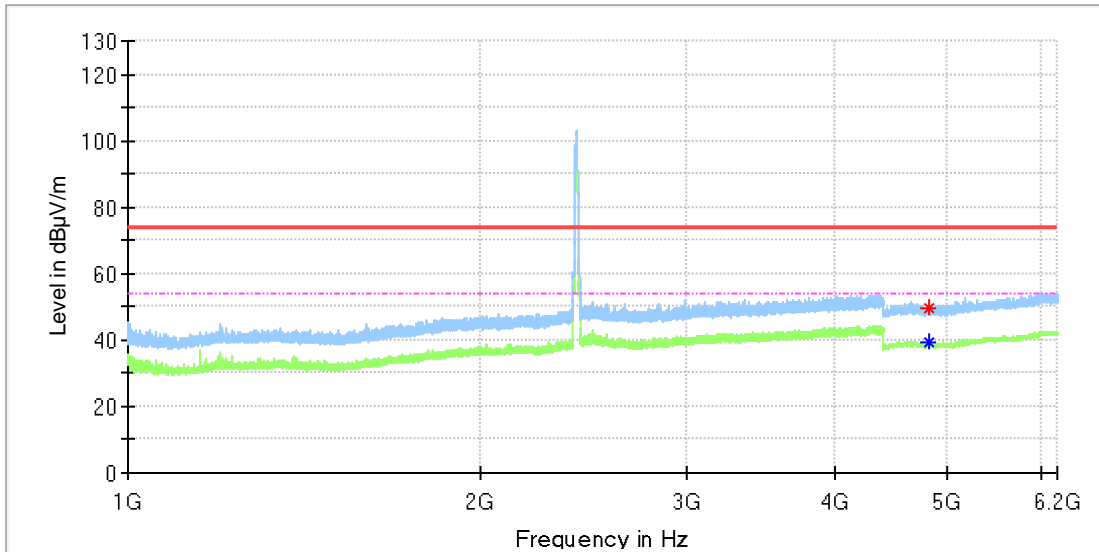
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
73.213500	36.06	40.00	3.94	100.0	V	0.0	-22.9
111.043500	30.40	43.50	13.10	100.0	V	299.0	-19.2
265.225000	23.10	46.00	22.90	100.0	V	358.0	-17.0
530.520000	29.51	46.00	16.49	100.0	V	5.0	-11.3
795.766500	31.22	46.00	14.78	100.0	V	19.0	-6.4

1GHz - 18GHz

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

EUT Information

EUT Name:	BT & WLAN Module
Model:	BTWDB01
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

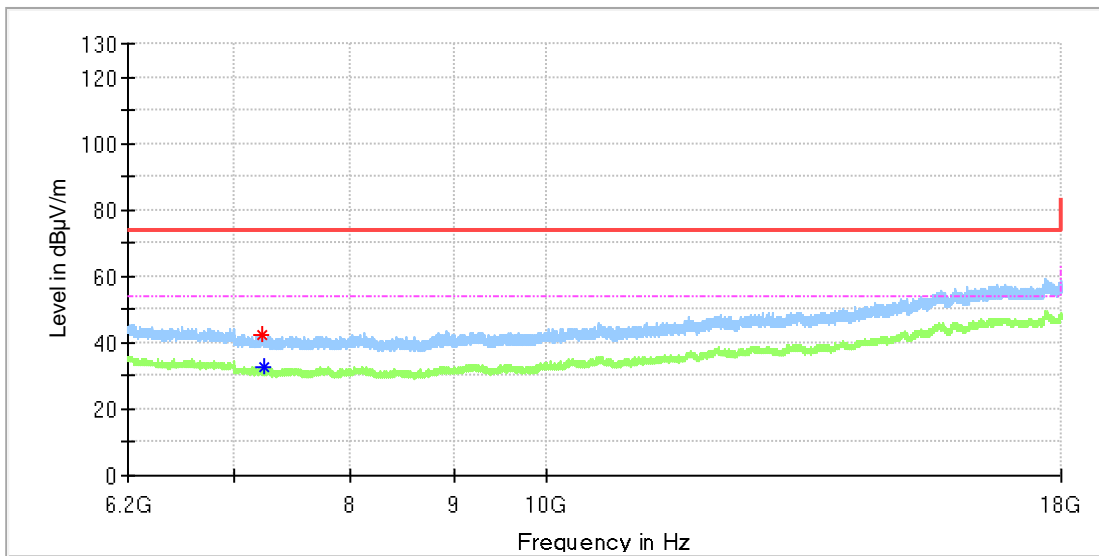


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.000000	49.84	—	74.00	24.16	100.0	H	248.0	11.8
4823.500000	—	39.23	54.00	14.77	100.0	H	190.0	11.8

EUT Information

EUT Name:	BT & WLAN Module
Model:	BTWDB01
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

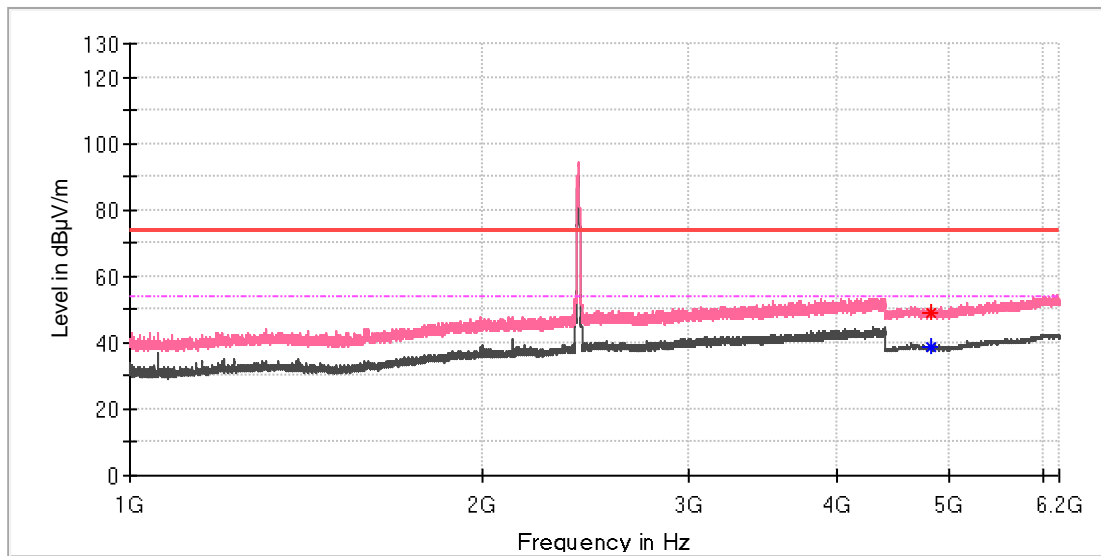


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7230.041667	42.12	—	74.00	31.88	100.0	H	321.0	8.6
7246.266667	—	32.42	54.00	21.58	100.0	H	293.0	8.6

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

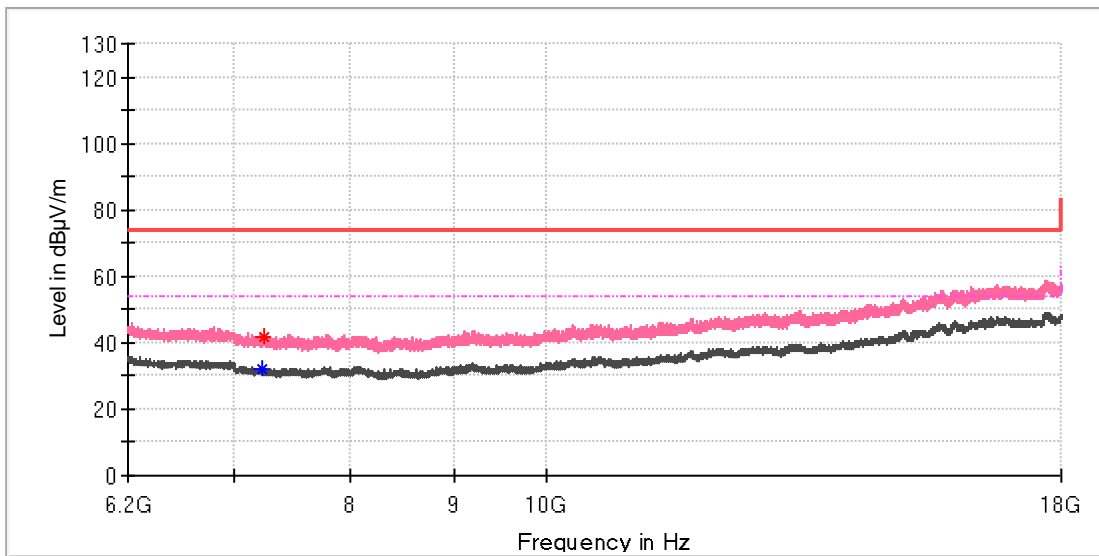


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	—	38.64	54.00	15.36	100.0	V	328.0	11.8
4825.500000	49.19	—	74.00	24.81	100.0	V	172.0	11.8

EUT Information

EUT Name:	BT & WLAN Module
Model:	BTWDB01
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

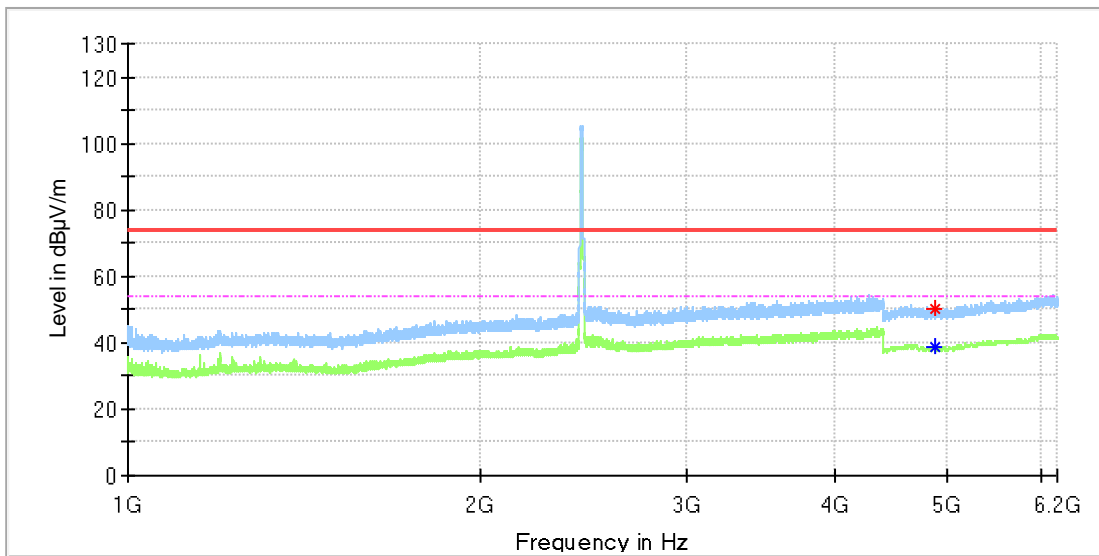


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.466667	—	32.24	54.00	21.76	100.0	V	0.0	8.6
7242.333333	41.54	—	74.00	32.46	100.0	V	59.0	8.6

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Mid channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

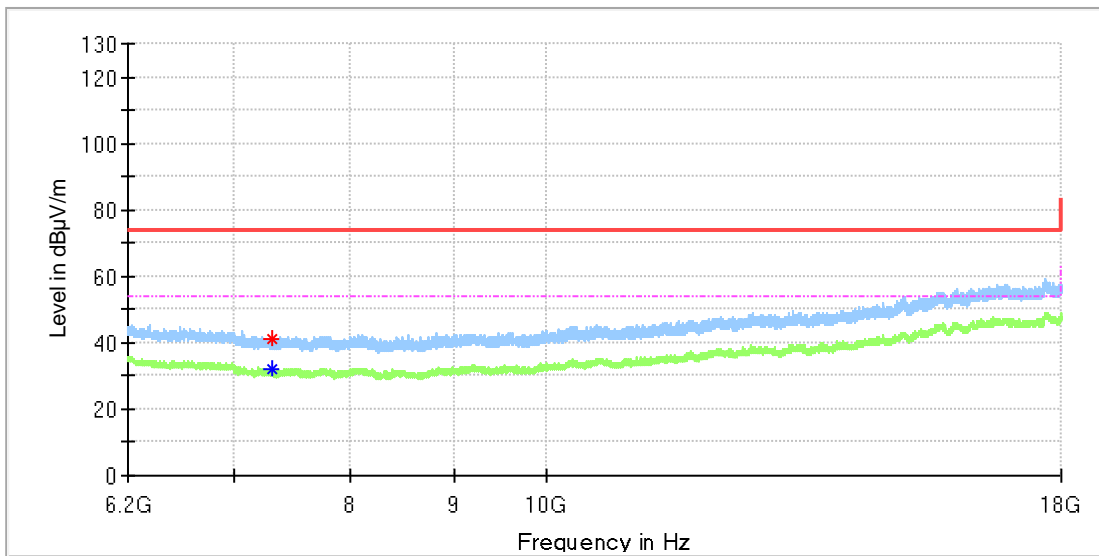


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	50.09	—	74.00	23.91	100.0	H	161.0	11.8
4874.000000	—	38.89	54.00	15.11	100.0	H	245.0	11.8

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Mid channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

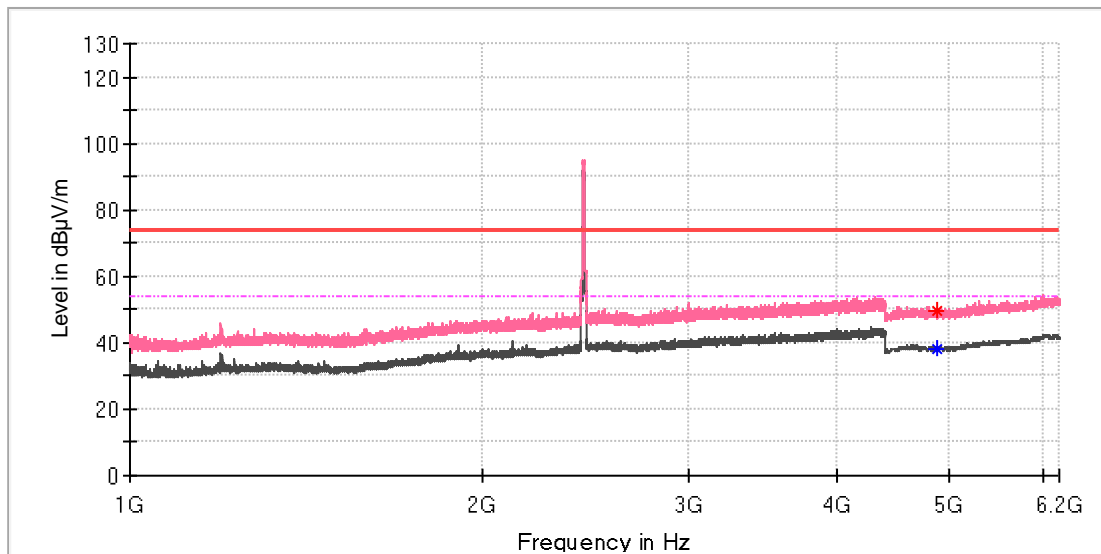


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	40.85	—	74.00	33.15	100.0	H	97.0	8.2
7313.133333	—	32.08	54.00	21.92	100.0	H	97.0	8.2

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Mid channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

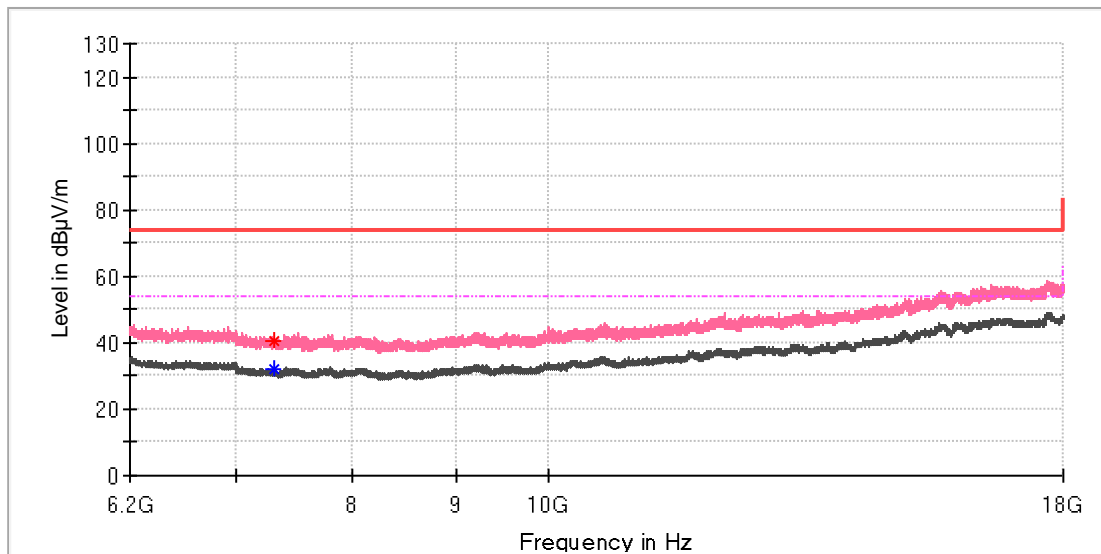


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.500000	49.31	—	74.00	24.69	100.0	V	288.0	11.8
4876.000000	—	38.29	54.00	15.71	100.0	V	258.0	11.8

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Mid channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

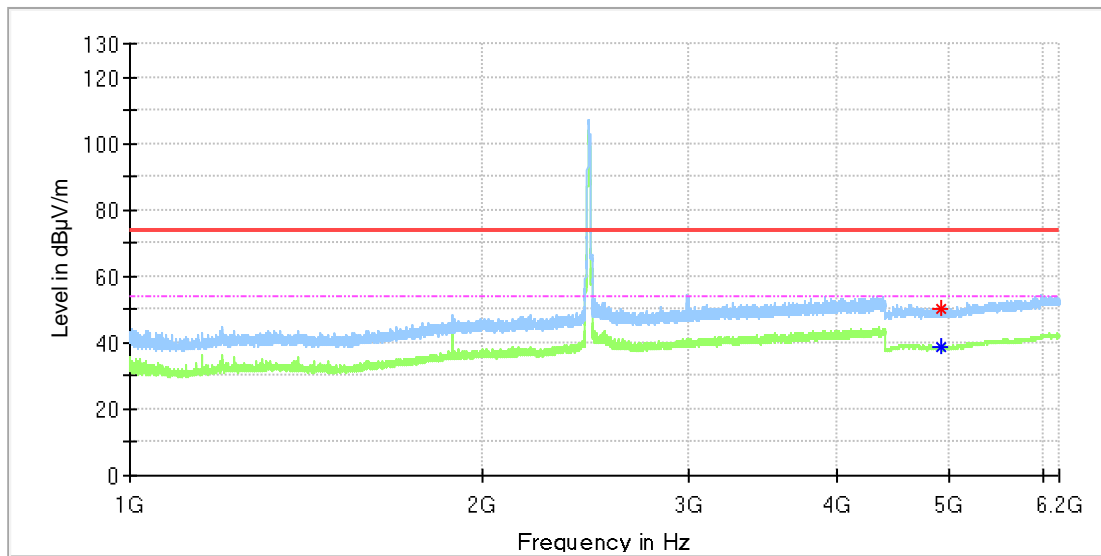


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.183333	40.73	—	74.00	33.27	100.0	V	298.0	8.2
7312.150000	—	31.97	54.00	22.03	100.0	V	23.0	8.2

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

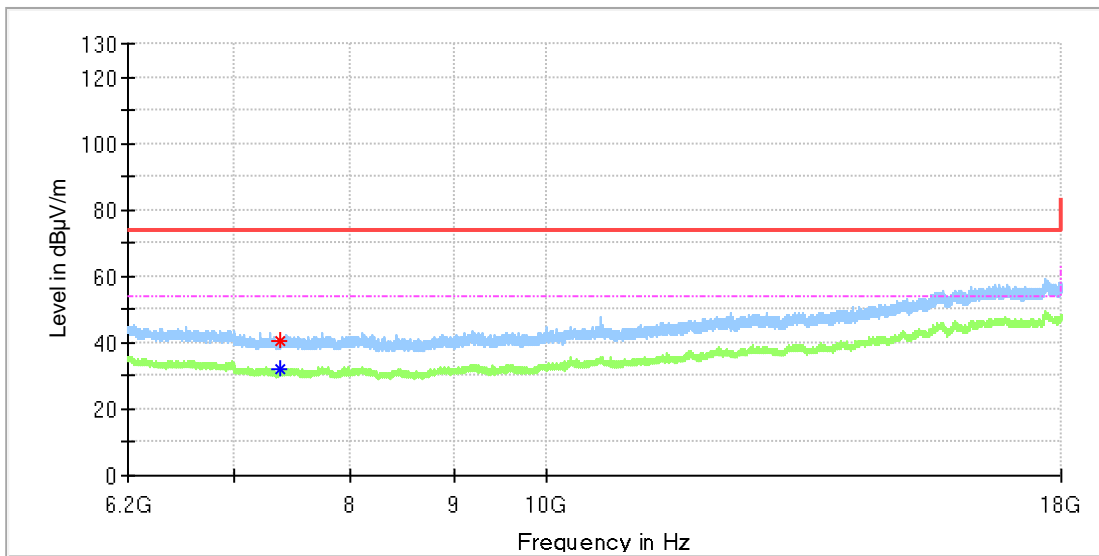


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4916.500000	50.45	—	74.00	23.55	100.0	H	201.0	11.8
4924.000000	—	38.94	54.00	15.06	100.0	H	231.0	11.8

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

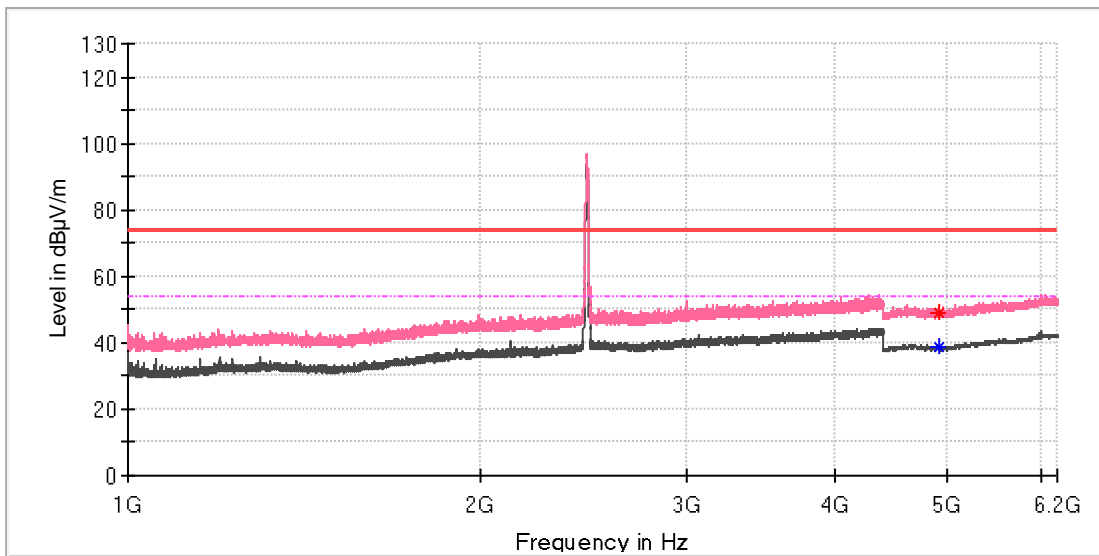


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7384.916667	40.75	—	74.00	33.25	100.0	H	15.0	8.2
7384.916667	—	31.85	54.00	22.15	100.0	H	15.0	8.2

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

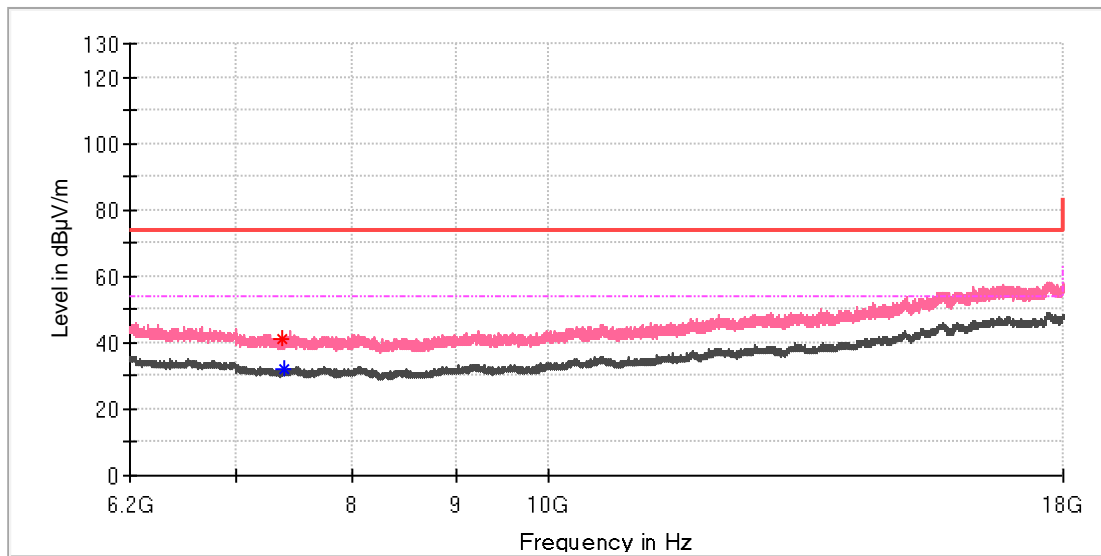


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4916.500000	49.25	—	74.00	24.75	100.0	V	45.0	11.8
4920.500000	—	38.62	54.00	15.38	100.0	V	180.0	11.8

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



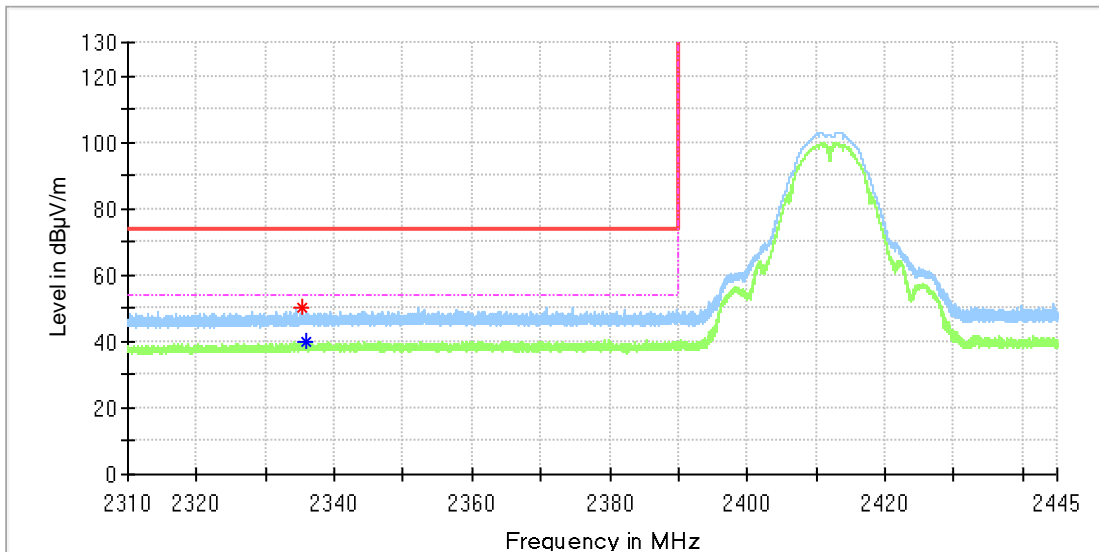
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7383.441667	41.33	—	74.00	32.67	100.0	V	233.0	8.2
7395.733333	—	31.96	54.00	22.04	100.0	V	233.0	8.3

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands Wi-Fi 802.11 b mode, 1 Mbps

EUT Information

EUT Name:	BT & WLAN Module
Model:	BTWDB01
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

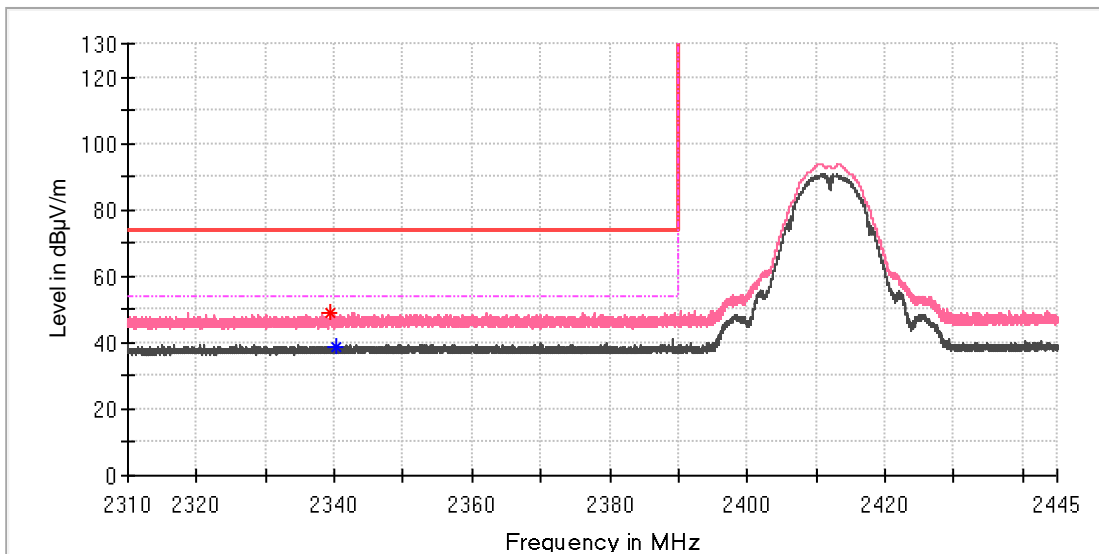


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2335.366500	49.92	--	74.00	24.08	100.0	H	142.0	6.8
2335.906500	--	40.18	54.00	13.82	100.0	H	77.0	6.8

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

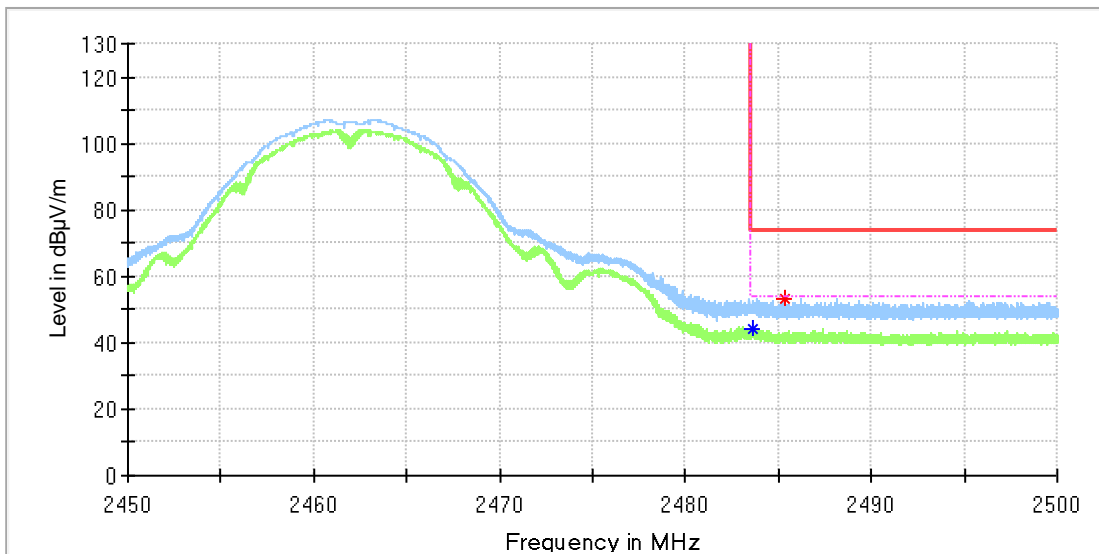


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2339.322000	48.89	—	74.00	25.11	100.0	V	231.0	6.8
2340.159000	—	38.93	54.00	15.07	100.0	V	174.0	6.8

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

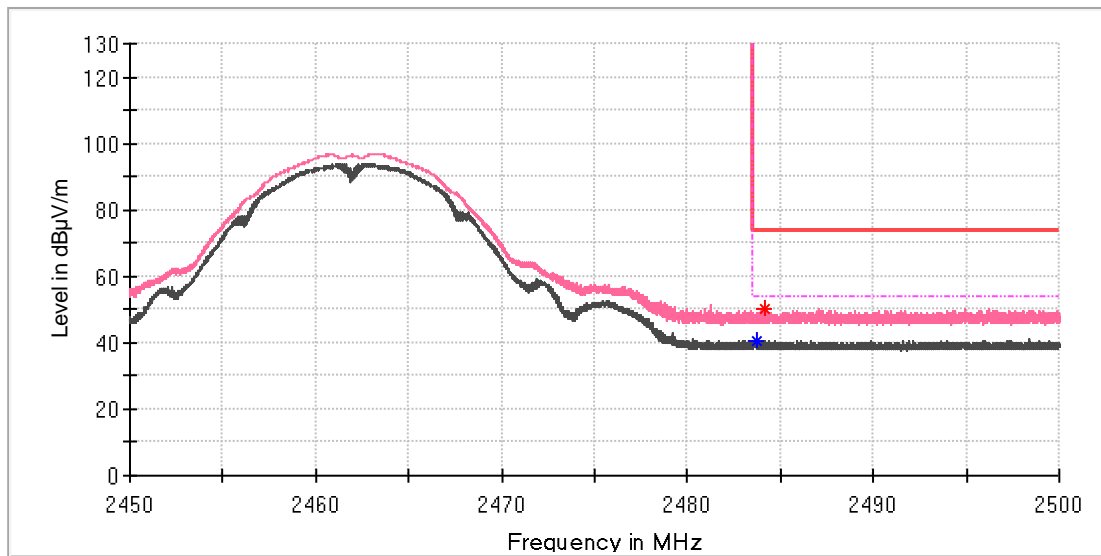


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.597500	—	44.30	54.00	9.70	100.0	H	127.0	7.4
2485.385000	53.27	—	74.00	20.73	100.0	H	148.0	7.4

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11b_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



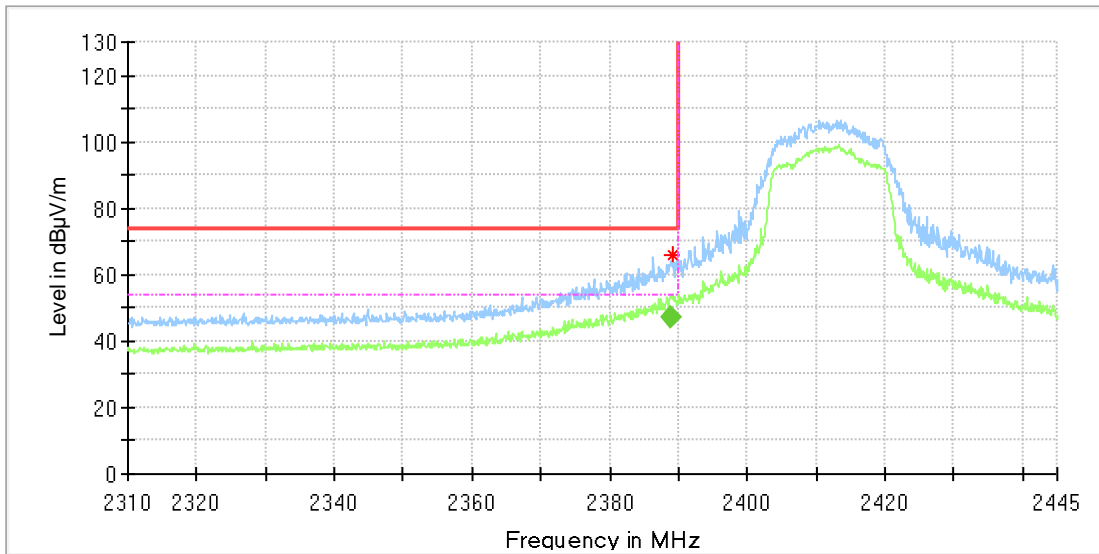
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.737500	—	40.65	54.00	13.35	100.0	V	71.0	7.4
2484.137500	50.04	—	74.00	23.96	100.0	V	0.0	7.4

Wi-Fi 802.11 g mode, 6 Mbps

EUT Information

EUT Name:	BT & WLAN Module
Model:	BTWDB01
Test Mode:	WIFI 2.4G_11g_Low channel
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

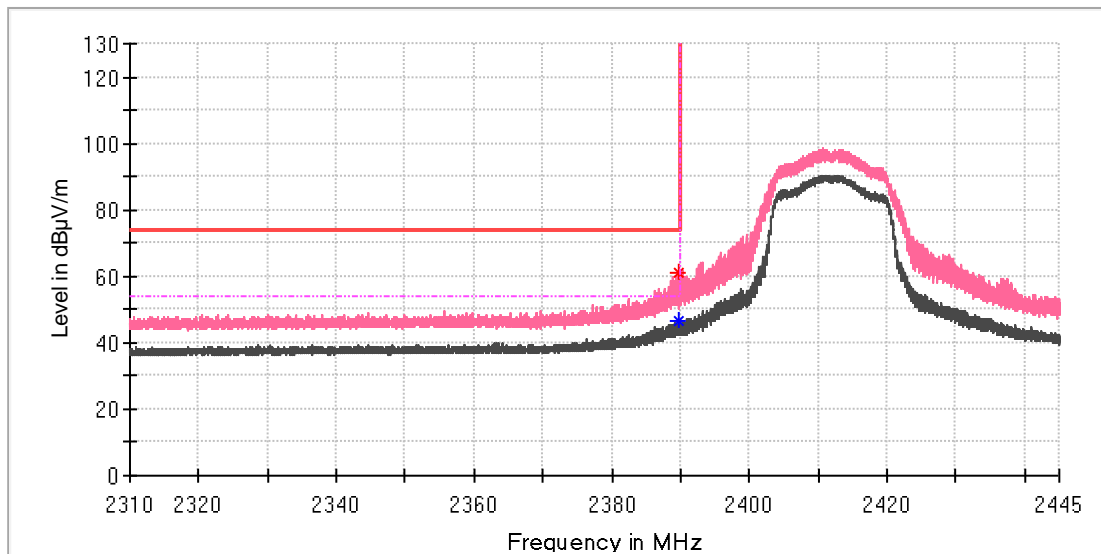
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.100000	65.77	--	74.00	8.23	100.0	H	118.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.913900	47.25	54.00	6.75	100.0	H	133.0	7.0

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11g_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

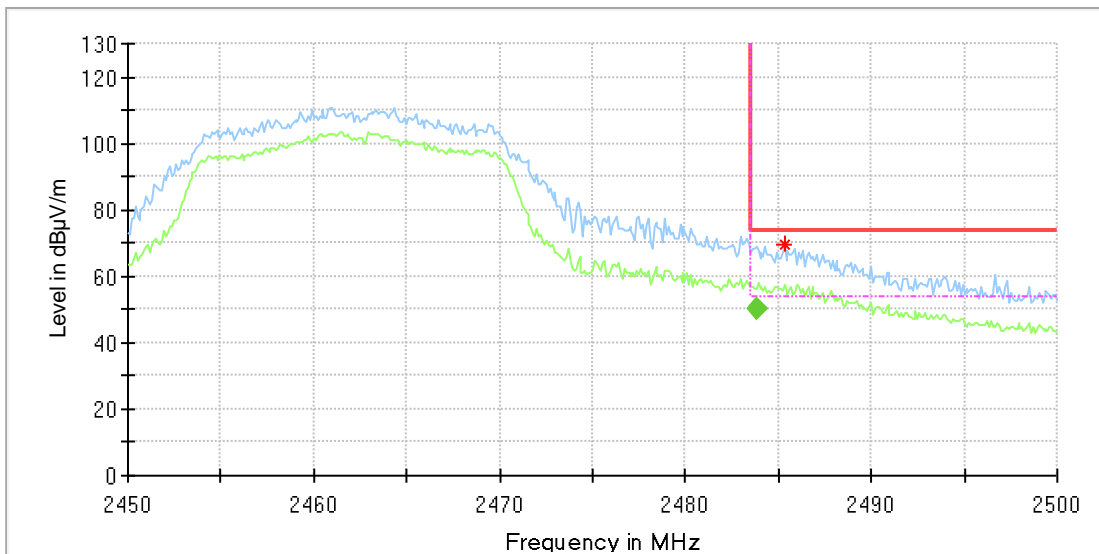


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.575750	61.06	—	74.00	12.94	100.0	V	86.0	7.0
2389.798500	—	46.70	54.00	7.30	100.0	V	73.0	7.0

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11g_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

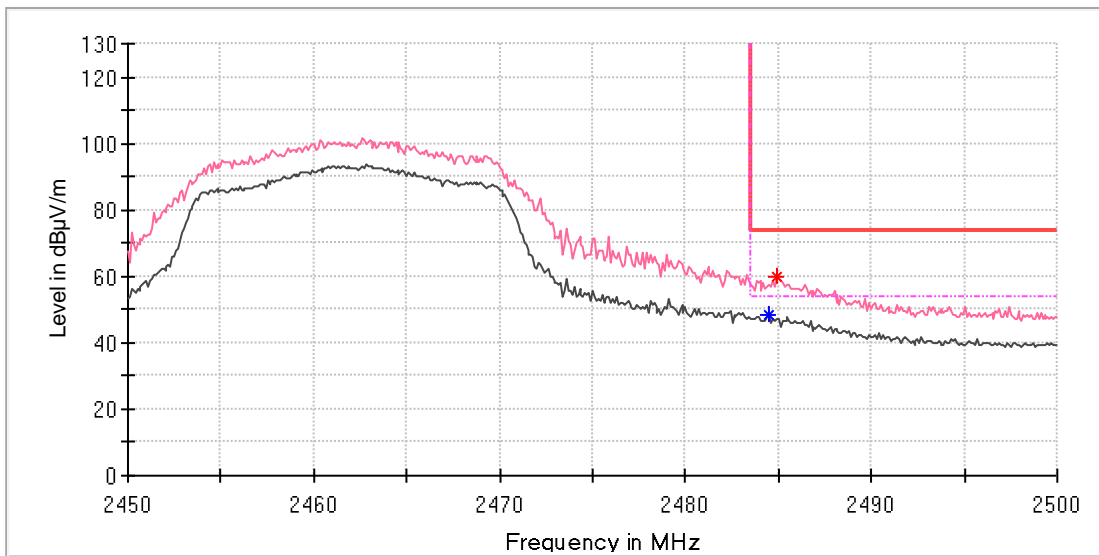
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.300000	69.81	--	74.00	4.19	100.0	H	123.0	7.4

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.813000	50.33	54.00	3.67	100.0	H	73.0	7.4

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11g_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



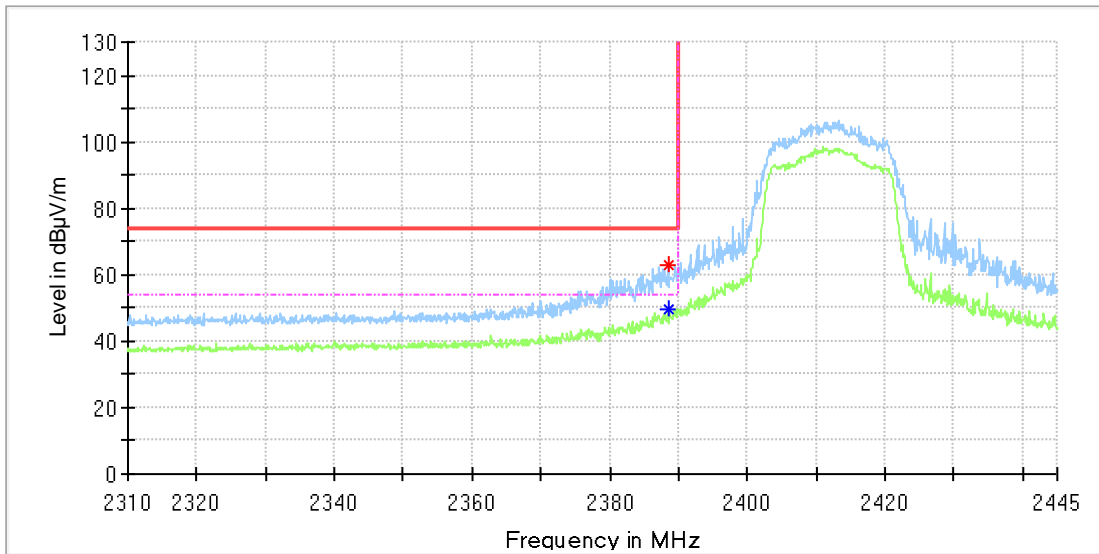
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.500000	—	48.43	54.00	5.57	100.0	V	59.0	7.4
2484.900000	59.72	—	74.00	14.28	100.0	V	59.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0

EUT Information

EUT Name:	BT & WLAN Module
Model:	BTWDB01
Test Mode:	WIFI 2.4G_11n20_Lowchannel
Test Voltage::	DC 3.3V
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

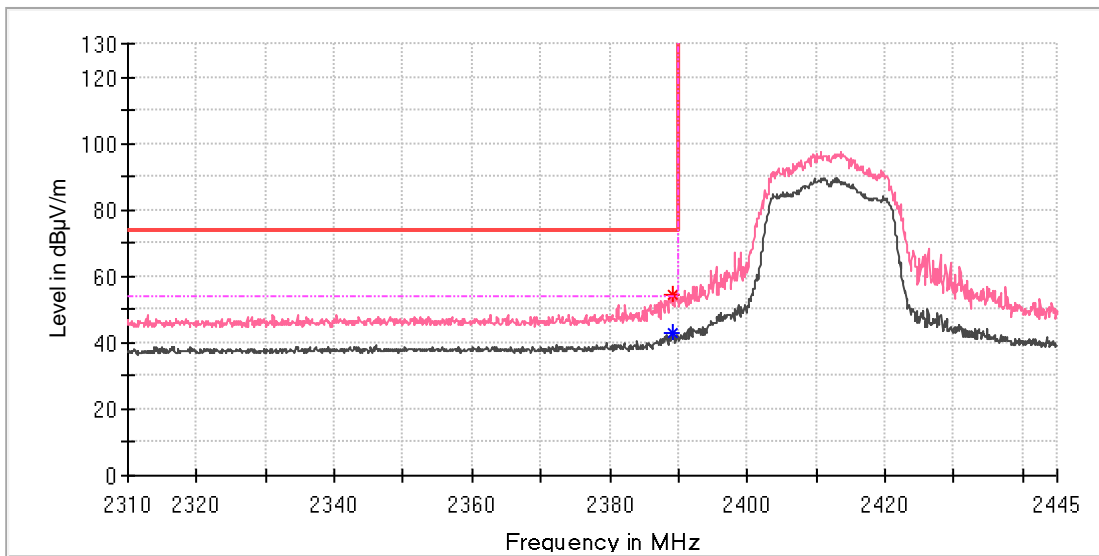


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.500000	63.12	—	74.00	10.88	100.0	H	126.0	7.0
2388.700000	—	49.83	54.00	4.17	100.0	H	136.0	7.0

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11n20_Lowchannel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

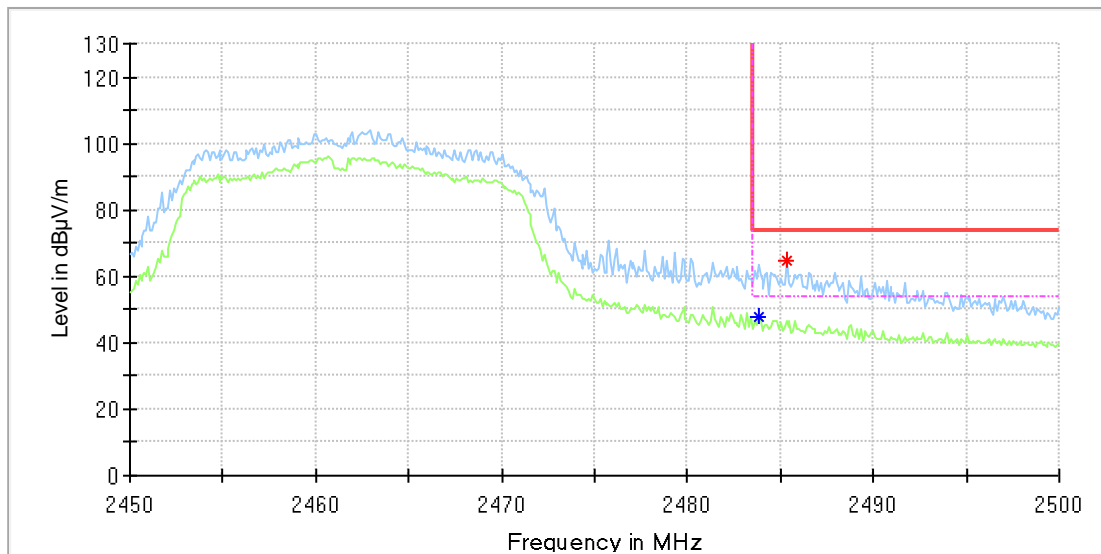


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.000000	—	42.71	54.00	11.29	100.0	V	76.0	7.0
2389.000000	54.56	—	74.00	19.44	100.0	V	76.0	7.0

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11n20_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

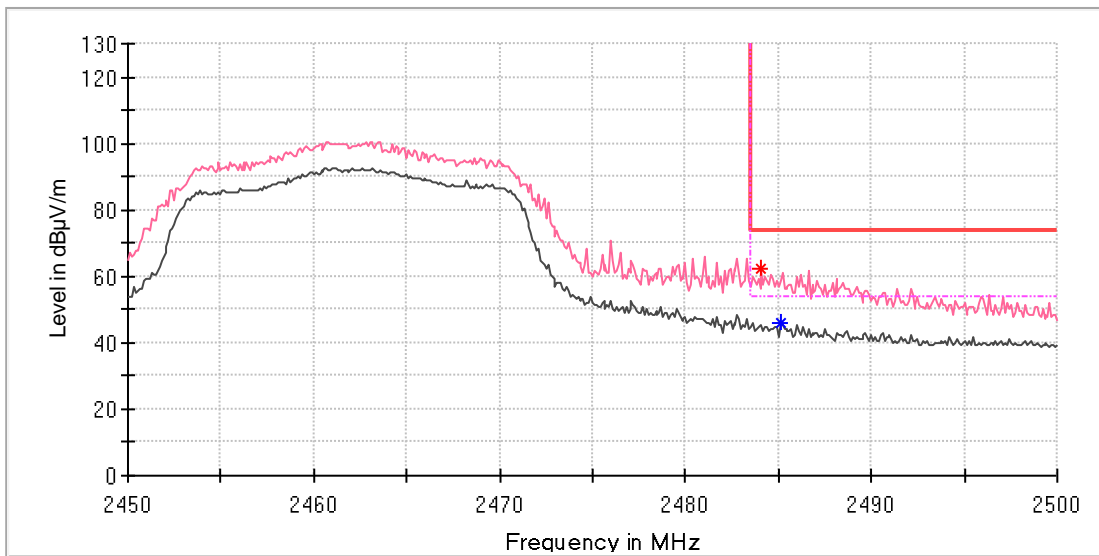


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.800000	—	48.04	54.00	5.96	100.0	H	96.0	7.4
2485.300000	64.82	—	74.00	9.18	100.0	H	78.0	7.4

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: WIFI 2.4G_11n20_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 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)
2484.100000	62.18	—	74.00	11.82	100.0	V	125.0	7.4
2485.100000	—	45.79	54.00	8.21	100.0	V	266.0	7.4