

Appendix A: Test Results of Radiated Spurious Emissions

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Appendix A.1: Test Results of Radiated Spurious Emissions, Bluetooth LE

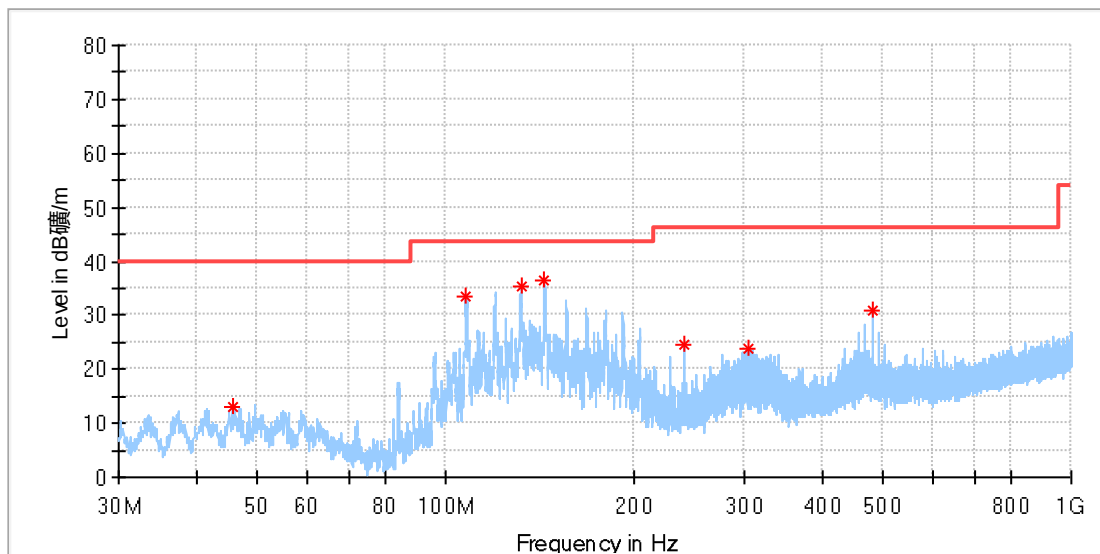
Note:

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

30 MHz - 1GHz

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168460375/A003497474-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

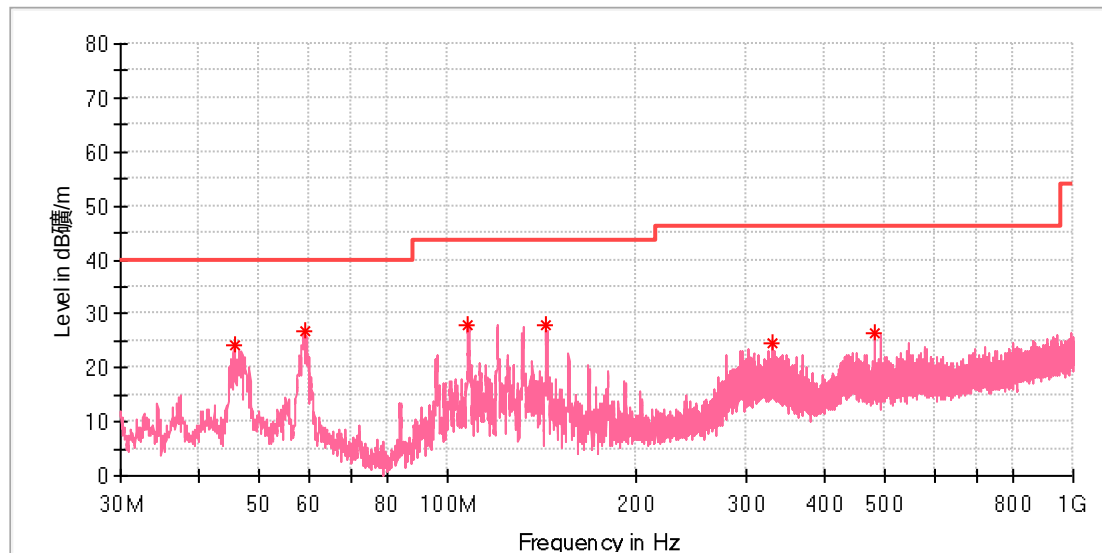
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.594615	13.19	40.00	26.81	100.0	H	45.0	-19.0
107.786539	33.41	43.50	10.09	100.0	H	167.0	-19.3
131.924615	35.45	43.50	8.05	100.0	H	354.0	-22.3
143.975000	36.64	43.50	6.86	100.0	H	6.0	-22.6
240.005000	24.54	46.00	21.46	100.0	H	354.0	-18.0
305.629231	23.65	46.00	22.35	100.0	H	242.0	-16.5
480.005385	31.03	46.00	14.97	100.0	H	20.0	-12.6

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
45.557308	24.08	40.00	15.92	100.0	V	208.0	-19.1
58.950769	26.65	40.00	13.35	100.0	V	87.0	-19.2
107.786539	28.09	43.50	15.41	100.0	V	288.0	-19.3
143.863077	27.94	43.50	15.56	100.0	V	288.0	-22.6
329.953846	24.52	46.00	21.48	100.0	V	157.0	-15.7
480.005385	26.52	46.00	19.48	100.0	V	257.0	-12.6

Final_Result

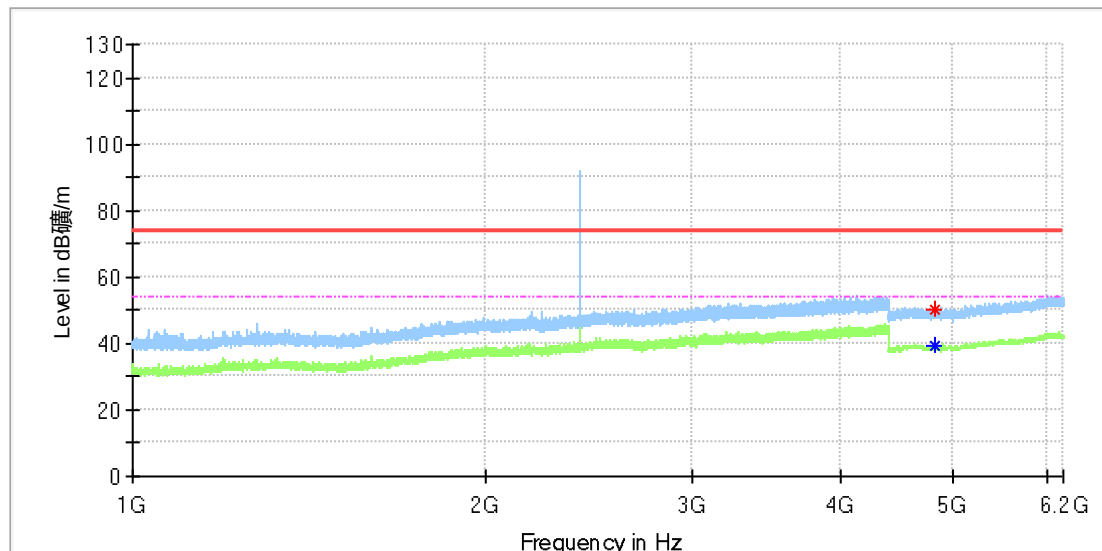
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168460375/A003497474-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

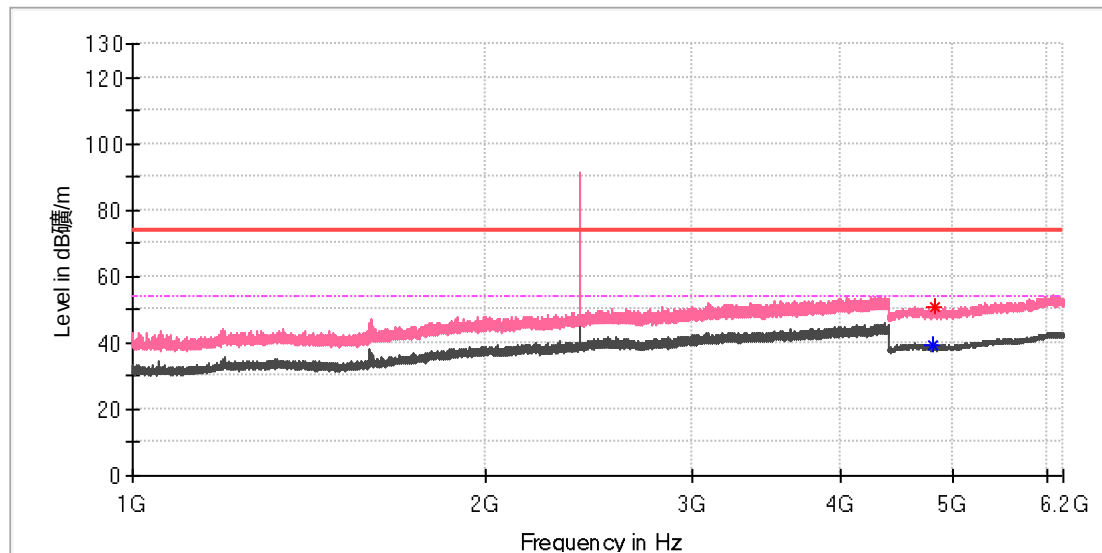
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4817.000000	---	39.32	54.00	14.68	150.0	H	229.0	11.8
4820.000000	50.23	---	74.00	23.77	150.0	H	71.0	11.8

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

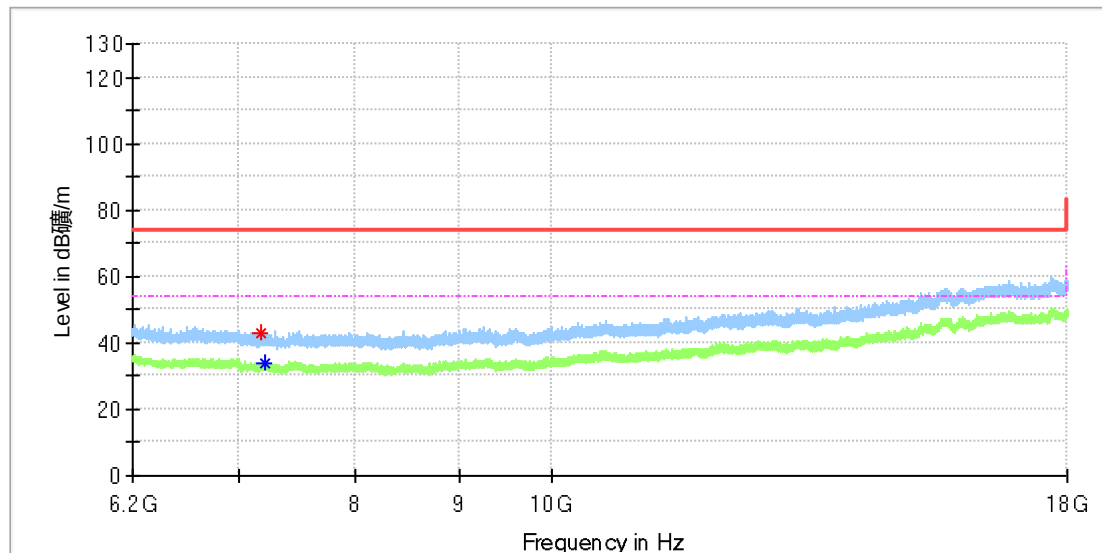
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.000000	---	39.52	54.00	14.48	150.0	V	223.0	11.8
4824.500000	50.67	---	74.00	23.33	150.0	V	45.0	11.8

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 Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
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Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
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Critical_Freqs

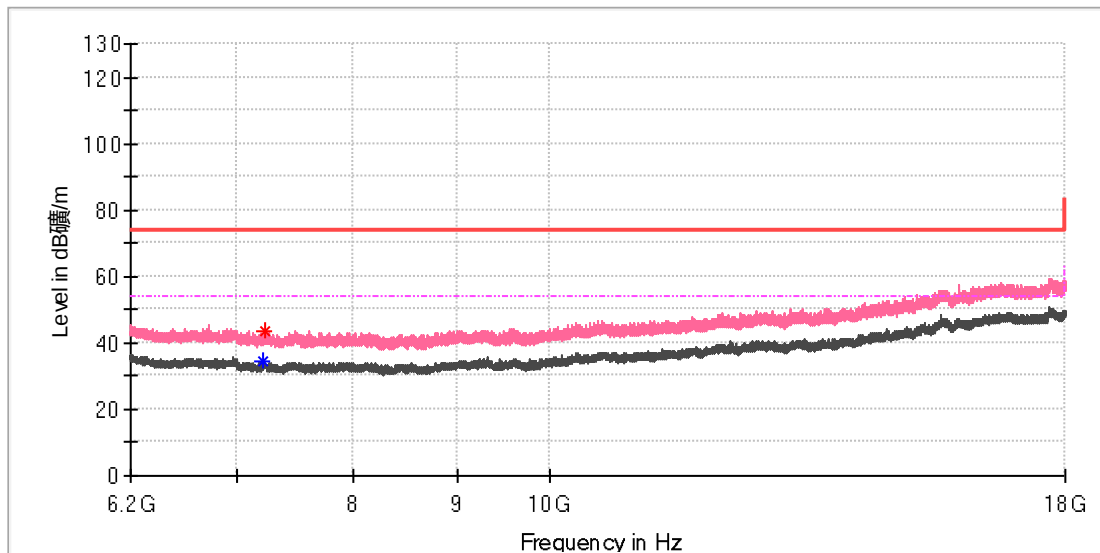
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7182.841667	42.73	---	74.00	31.27	150.0	H	0.0	8.8
7206.933333	---	34.15	54.00	19.85	150.0	H	0.0	8.8

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: 168460375/A003497474-002
Test Voltage: Battery
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Critical_Freqs

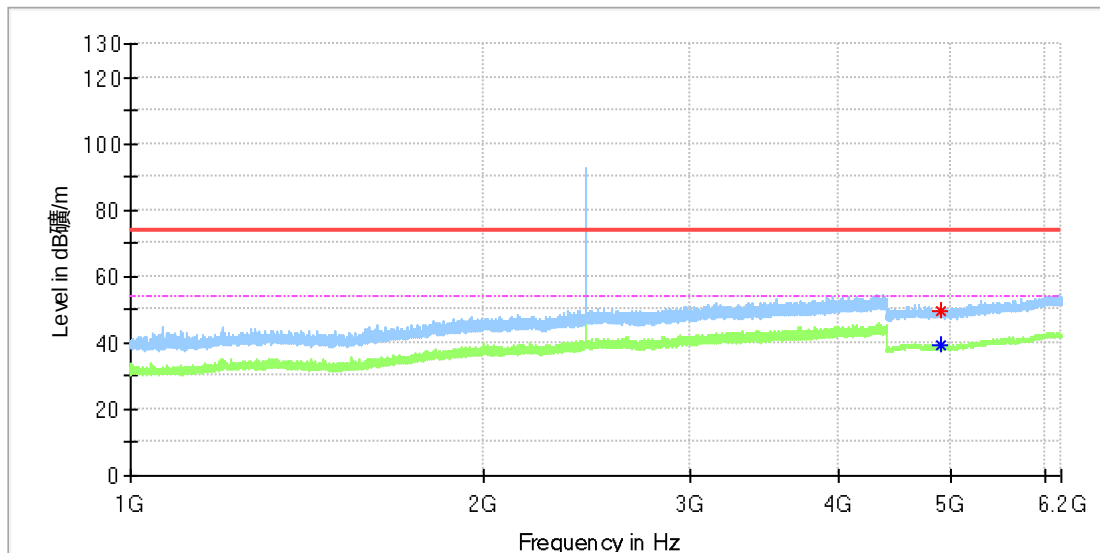
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7209.391667	---	34.45	54.00	19.55	150.0	V	354.0	8.8
7225.125000	43.23	---	74.00	30.77	150.0	V	124.0	8.7

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: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

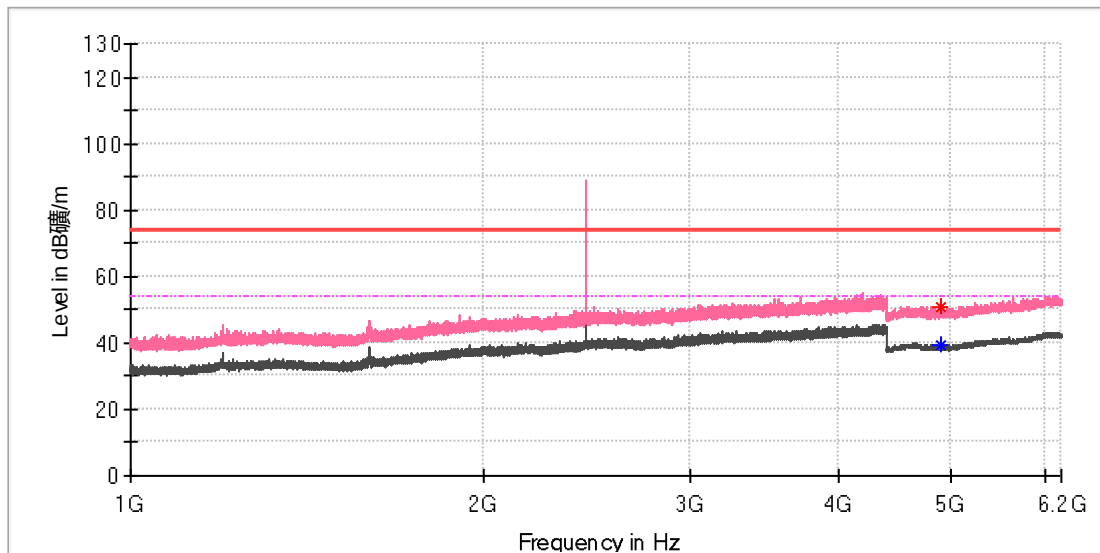
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4893.000000	49.86	---	74.00	24.14	150.0	H	291.0	11.8
4904.000000	---	39.53	54.00	14.47	150.0	H	246.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

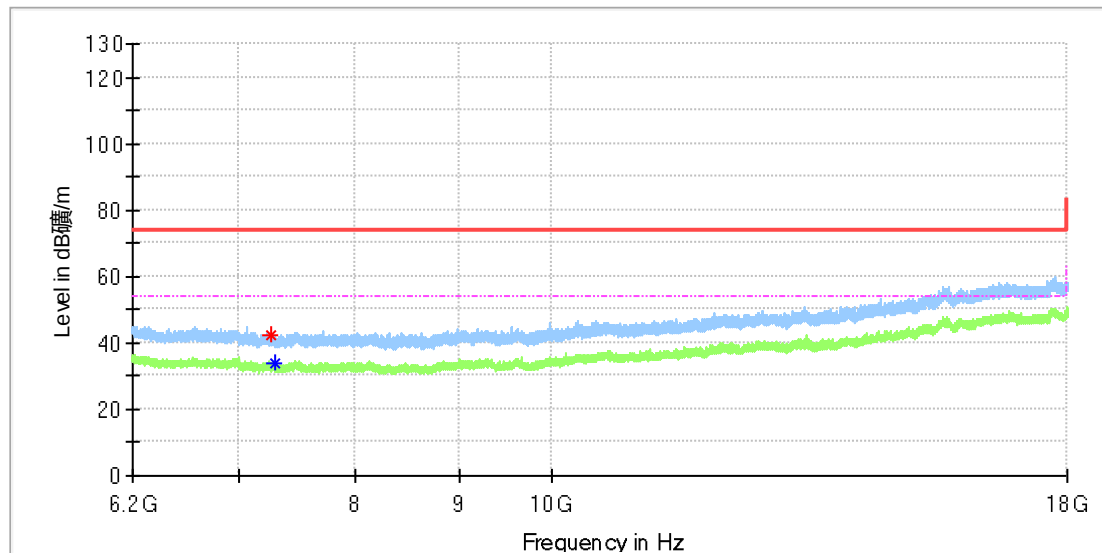
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4900.500000	50.85	---	74.00	23.15	150.0	V	207.0	11.8
4903.500000	---	39.09	54.00	14.91	150.0	V	190.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
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Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
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Critical_Freqs

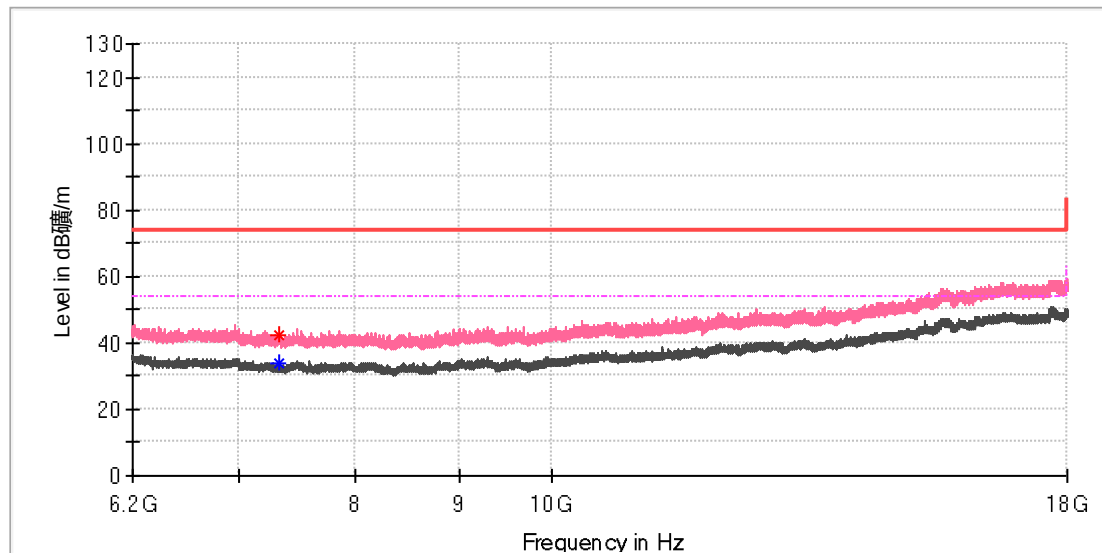
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7264.458333	42.50	---	74.00	31.50	150.0	H	176.0	8.5
7286.583333	---	33.91	54.00	20.09	150.0	H	29.0	8.4

Final_Result

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

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Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
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Critical_Freqs

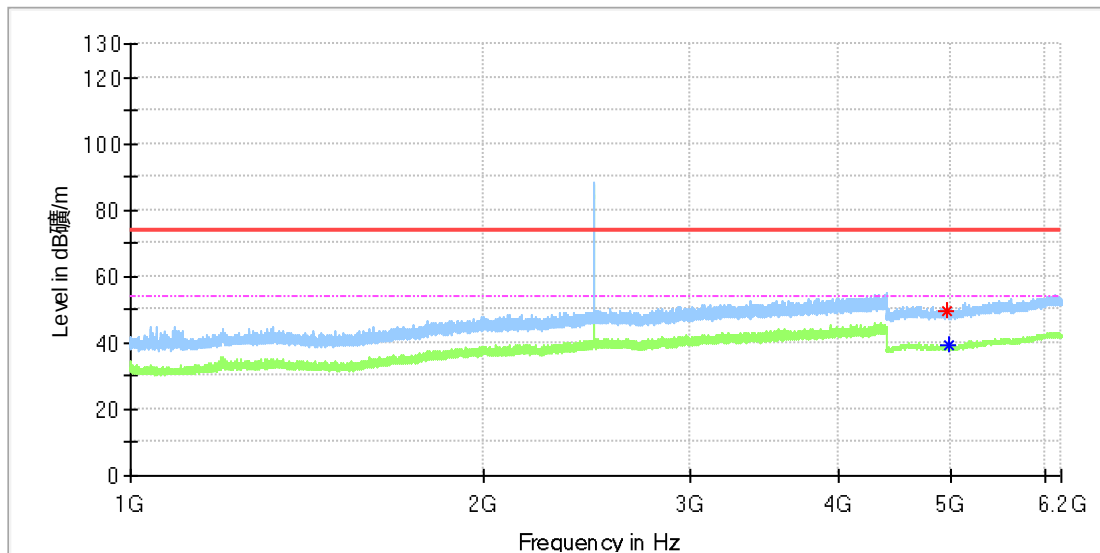
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7329.358333	42.53	---	74.00	31.47	150.0	V	240.0	8.1
7334.766667	---	34.08	54.00	19.92	150.0	V	324.0	8.1

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: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

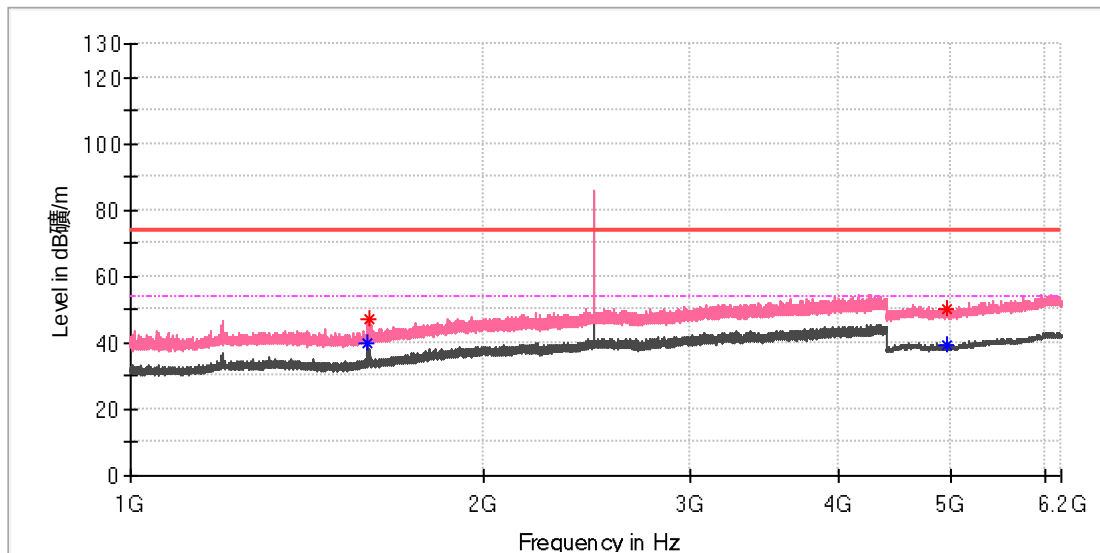
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.500000	49.82	---	74.00	24.18	150.0	H	178.0	11.8
4975.000000	---	39.03	54.00	14.97	150.0	H	178.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

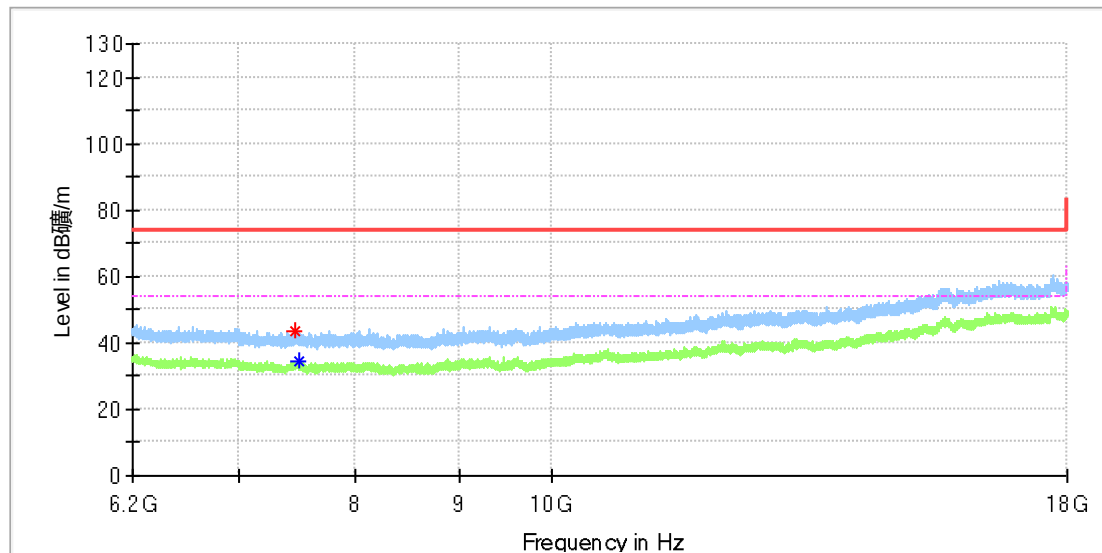
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1593.300000	---	40.10	54.00	13.90	150.0	V	265.0	2.0
1596.360000	47.01	---	74.00	26.99	150.0	V	309.0	2.1
4951.500000	---	39.30	54.00	14.70	150.0	V	117.0	11.8
4953.000000	50.47	---	74.00	23.53	150.0	V	268.0	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: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
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Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
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Critical_Freqs

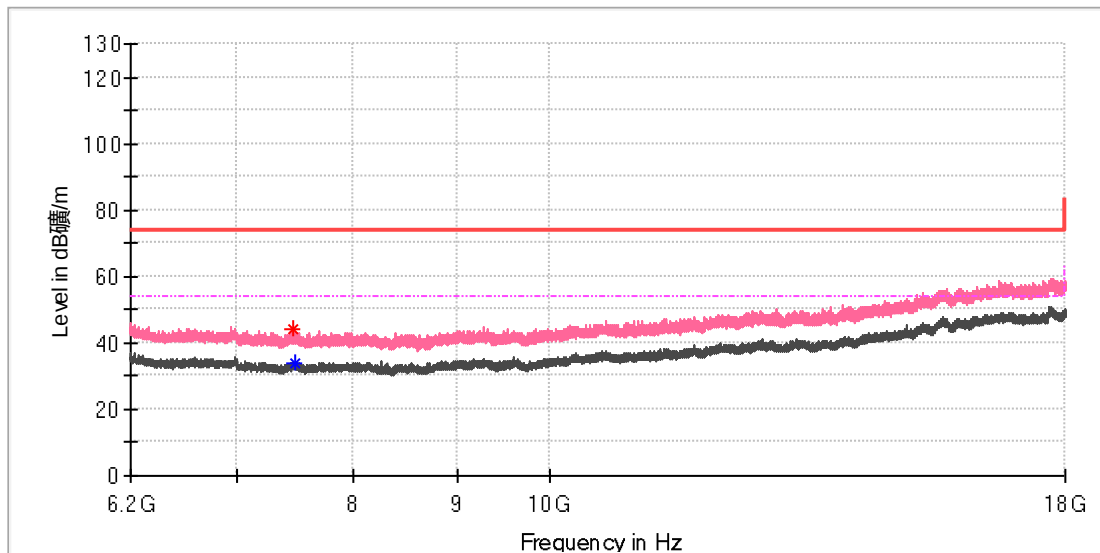
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7462.600000	43.24	---	74.00	30.76	150.0	H	60.0	8.6
7489.641667	---	34.17	54.00	19.83	150.0	H	178.0	8.7

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
7463.583333	44.05	---	74.00	29.95	150.0	V	205.0	8.6
7477.841667	---	34.15	54.00	19.85	150.0	V	267.0	8.6

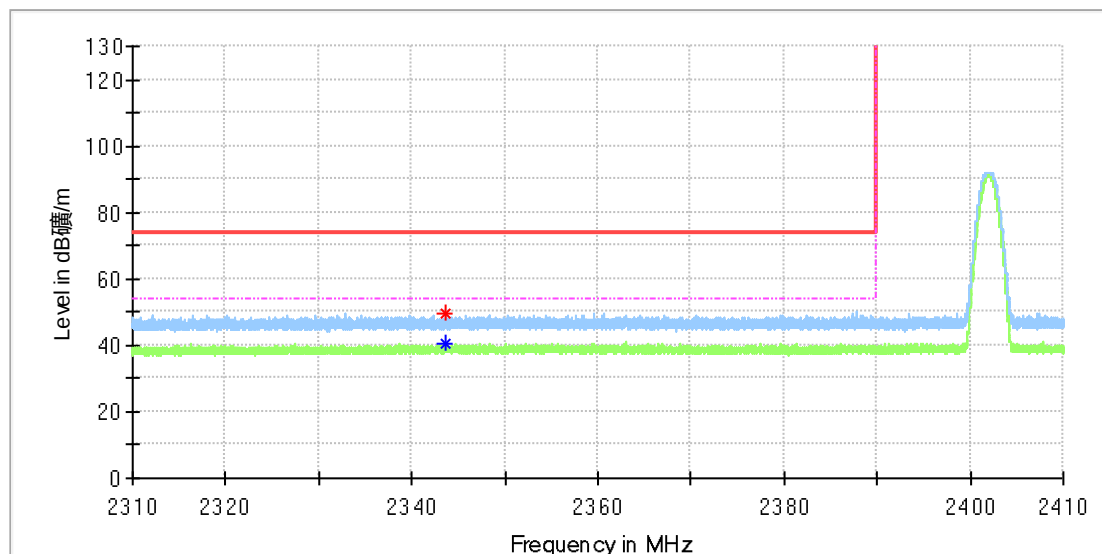
Final_Result

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

Appendix A.2: Test Results of Radiated Emissions in Restricted Bands, Bluetooth LE

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

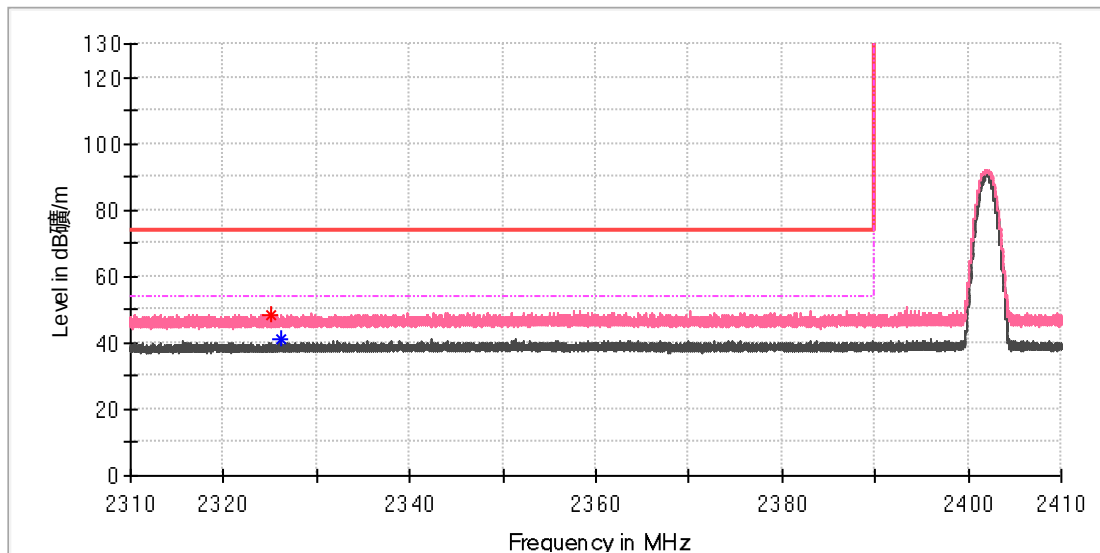
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2343.655000	---	40.30	54.00	13.70	150.0	H	267.0	6.9
2343.725000	49.69	---	74.00	24.31	150.0	H	14.0	6.9

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

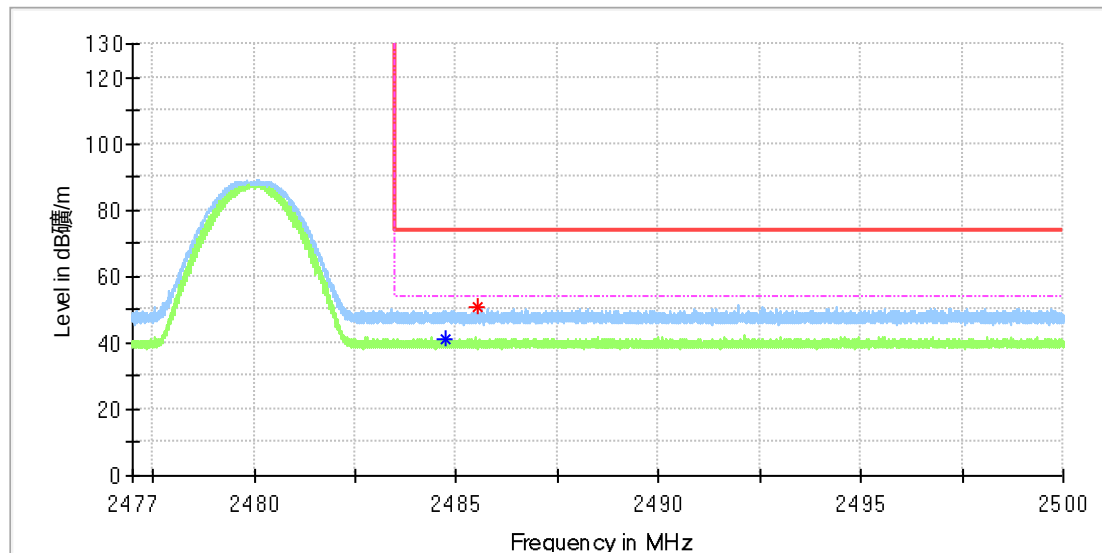
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2325.190000	48.41	---	74.00	25.59	150.0	V	167.0	6.6
2326.220000	---	41.27	54.00	12.73	150.0	V	234.0	6.7

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

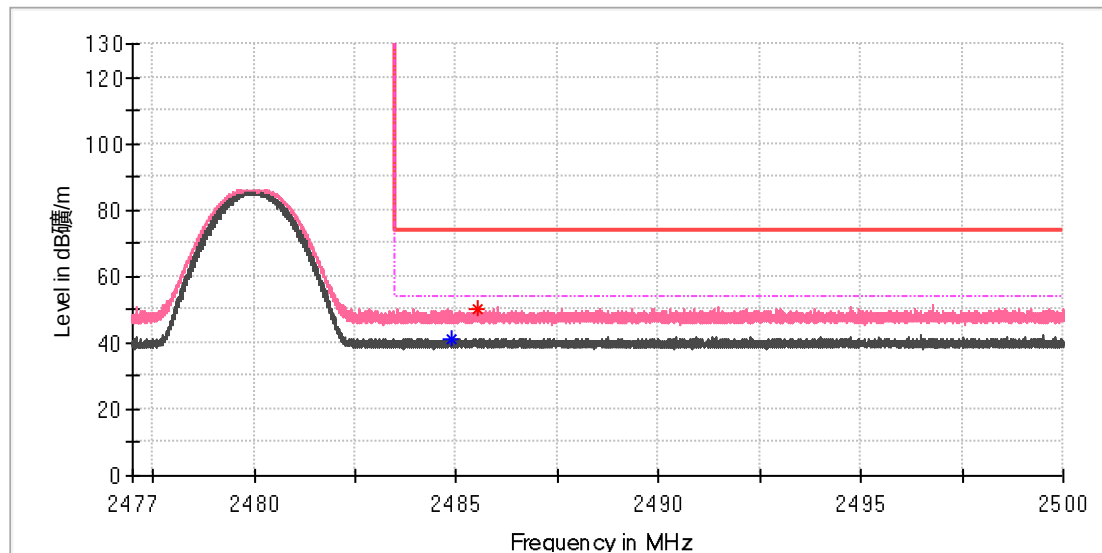
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.749850	---	41.17	54.00	12.83	150.0	H	354.0	7.4
2485.527250	50.81	---	74.00	23.19	150.0	H	346.0	7.4

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
2484.878650	---	41.16	54.00	12.84	150.0	V	112.0	7.4
2485.519200	50.45	---	74.00	23.55	150.0	V	241.0	7.4

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.3: Test Results of Radiated Spurious Emissions, 2.4GHz Wi-Fi

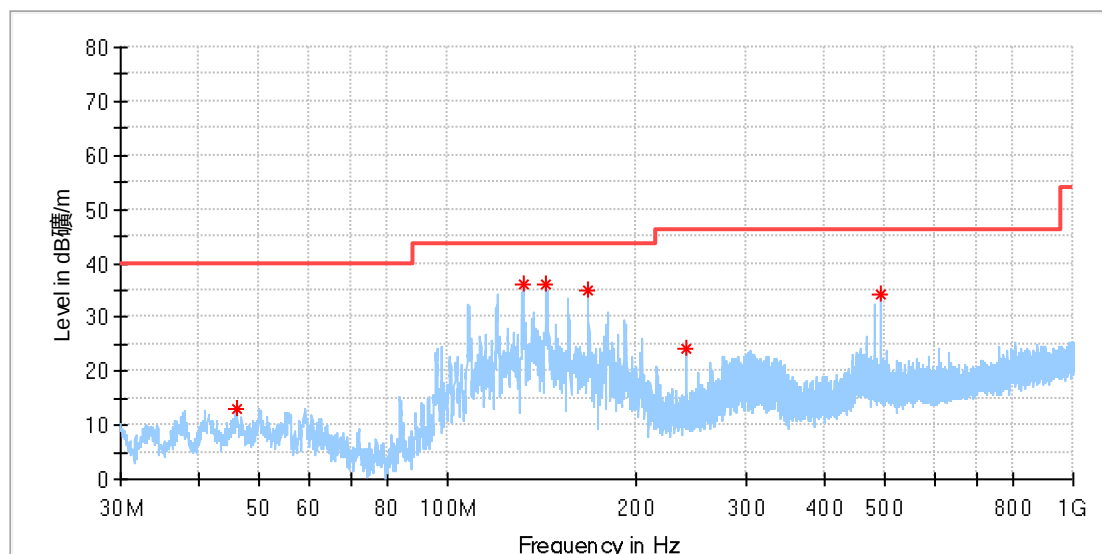
Note:

- 3) This testing was carried out on different modulations, but only the worst case was presented in this report.
4) 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.

30 MHz - 1GHz

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168460375/A003497474-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

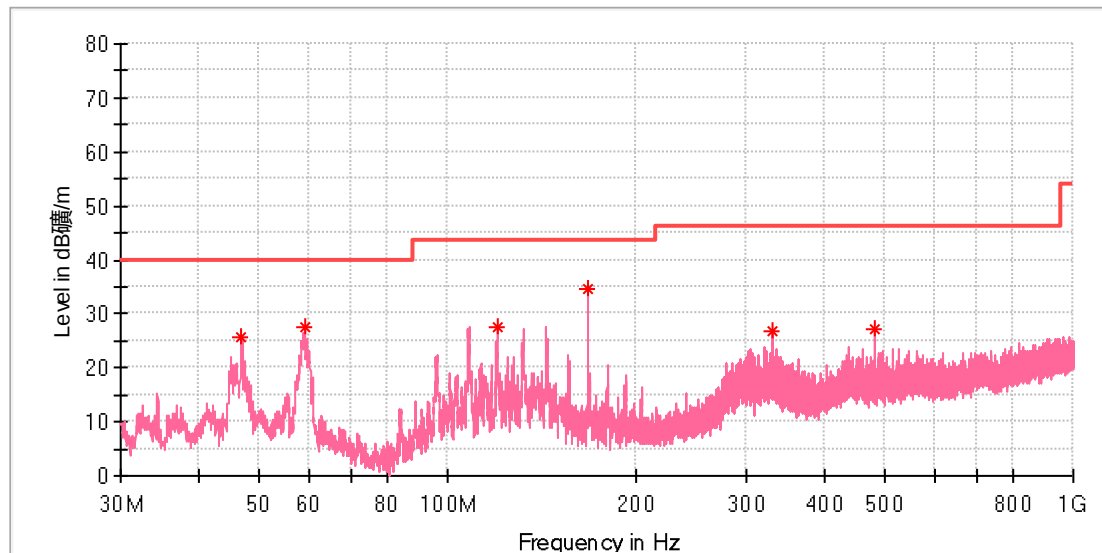
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.893077	12.89	40.00	27.11	100.0	H	2.0	-19.0
132.073846	36.19	43.50	7.31	100.0	H	183.0	-22.3
143.900385	36.09	43.50	7.41	100.0	H	353.0	-22.6
167.963846	34.90	43.50	8.60	100.0	H	353.0	-21.7
240.005000	24.34	46.00	21.66	100.0	H	183.0	-18.0
491.981154	34.40	46.00	11.60	100.0	H	232.0	-12.3

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
46.863077	25.71	40.00	14.29	100.0	V	80.0	-18.9
58.988077	27.50	40.00	12.50	100.0	V	161.0	-19.2
119.986154	27.59	43.50	15.91	100.0	V	285.0	-21.1
167.889231	34.74	43.50	8.76	100.0	V	268.0	-21.7
329.804615	26.85	46.00	19.15	100.0	V	210.0	-15.7
480.005385	26.98	46.00	19.02	100.0	V	268.0	-12.6

Final_Result

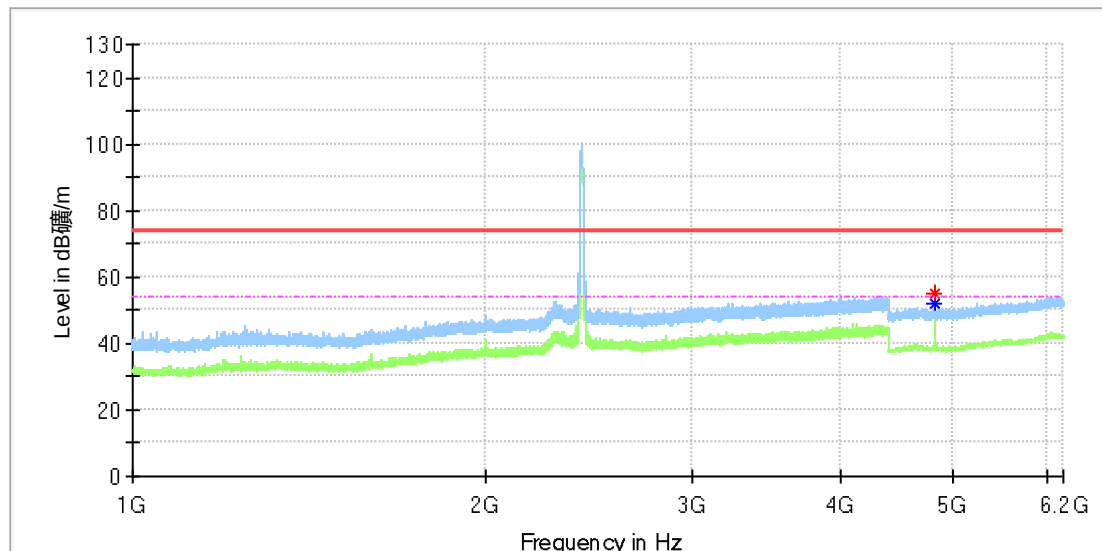
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 2.4GHz Wi-Fi Fundamental.

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168460375/A003497474-002
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

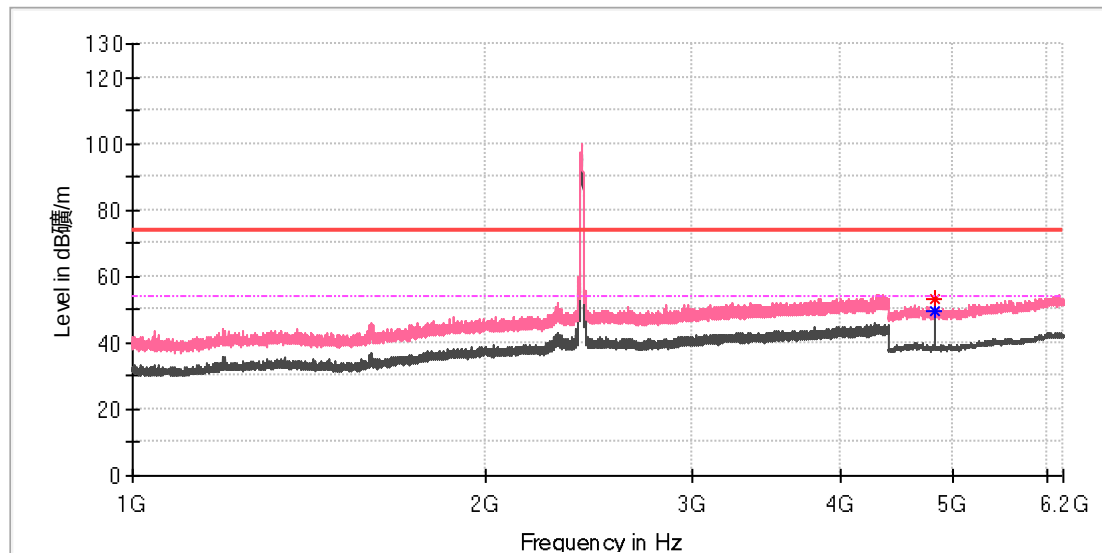
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	55.07	---	74.00	18.93	150.0	H	196.0	11.8
4824.000000	---	51.92	54.00	2.08	150.0	H	196.0	11.8

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

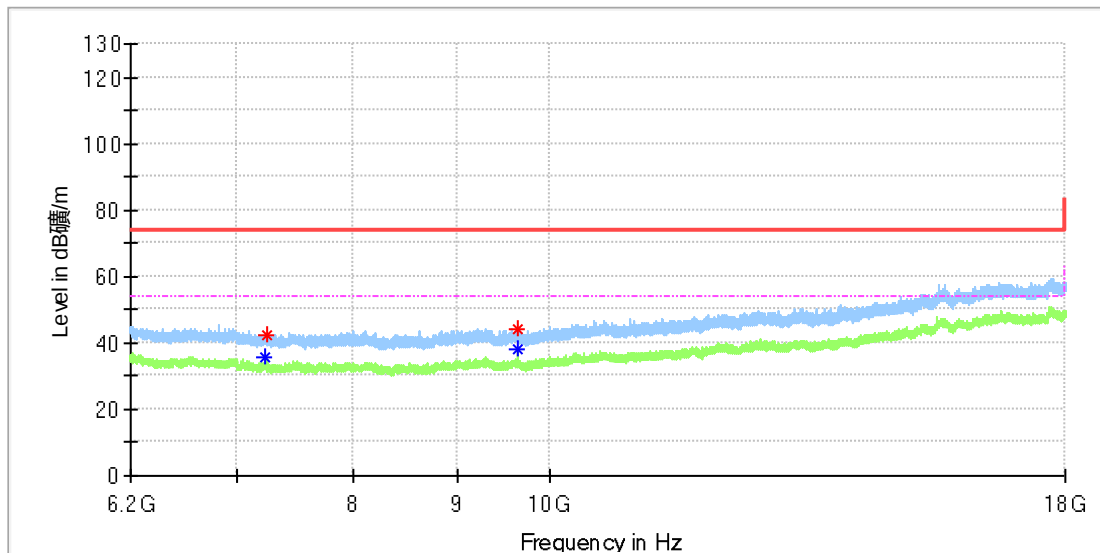
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	53.42	---	74.00	20.58	150.0	V	109.0	11.8
4824.000000	---	49.71	54.00	4.29	150.0	V	109.0	11.8

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

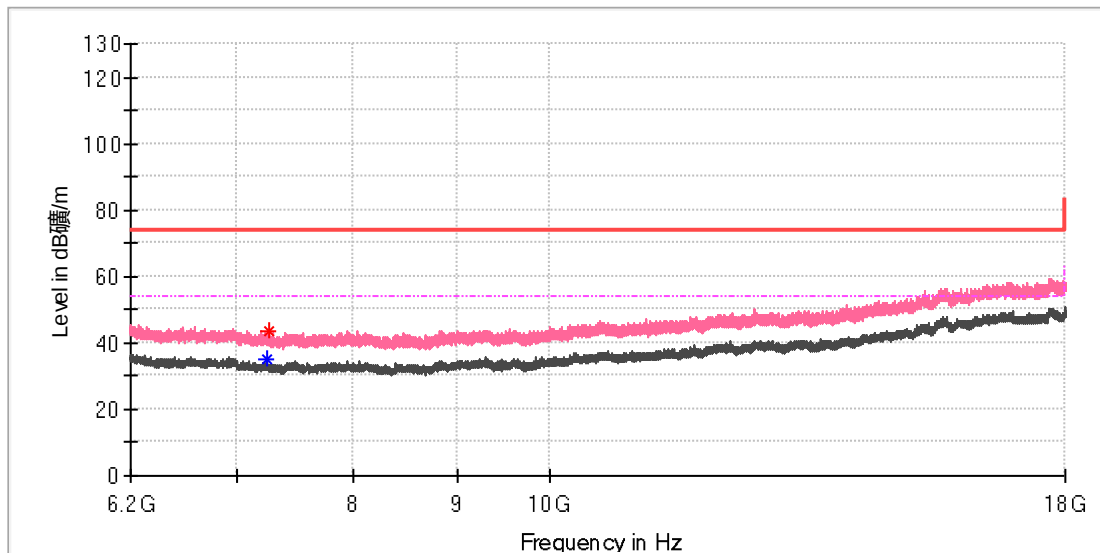
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.958333	---	35.45	54.00	18.55	150.0	H	0.0	8.6
7235.450000	42.56	---	74.00	31.44	150.0	H	0.0	8.6
9648.058333	---	38.23	54.00	15.77	150.0	H	106.0	10.4
9651.008333	43.88	---	74.00	30.12	150.0	H	167.0	10.4

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

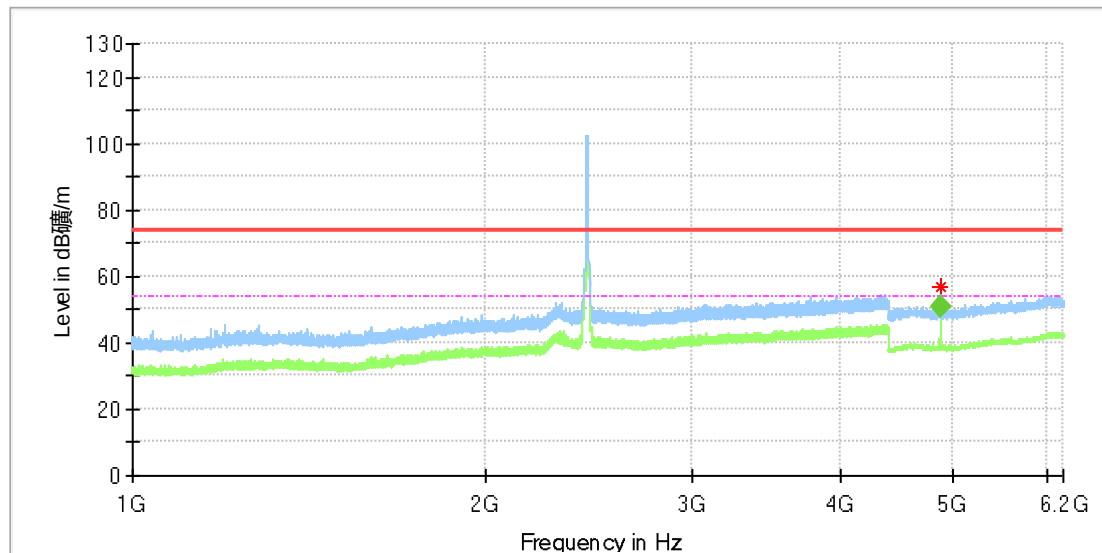
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7236.925000	---	34.79	54.00	19.21	150.0	V	341.0	8.6
7253.641667	43.25	---	74.00	30.75	150.0	V	4.0	8.5

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: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

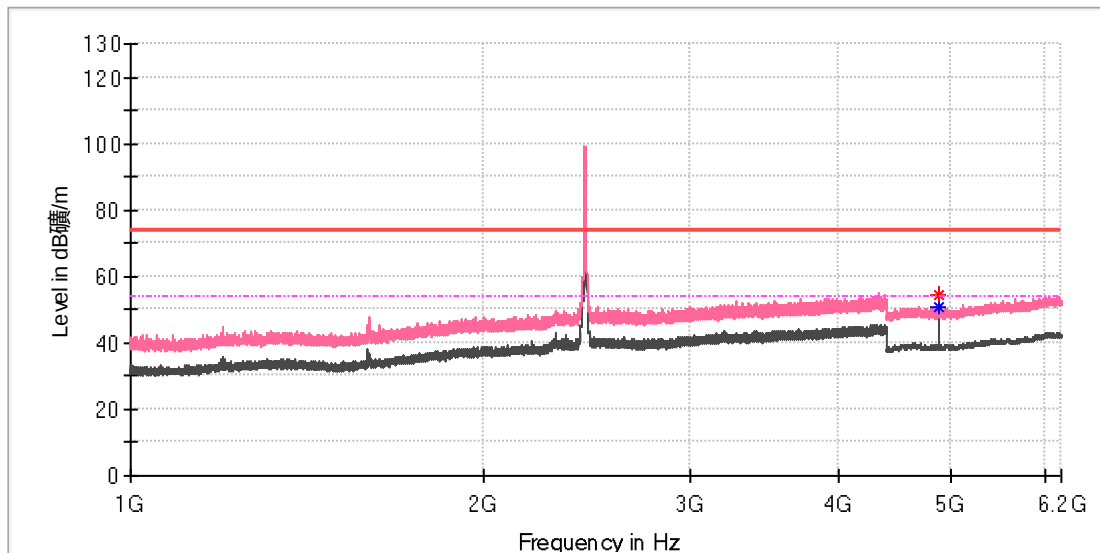
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	56.81	---	74.00	17.19	150.0	H	202.0	11.8

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.961111	50.49	54.00	3.51	145.0	H	197.0	11.8

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

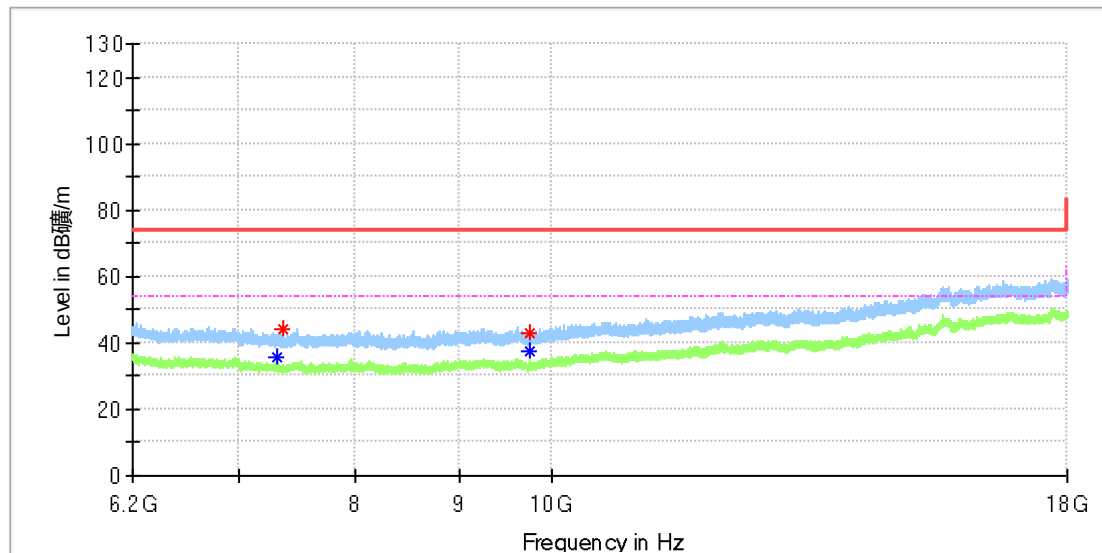
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	54.47	---	74.00	19.53	150.0	V	95.0	11.8
4874.000000	---	50.78	54.00	3.22	150.0	V	95.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

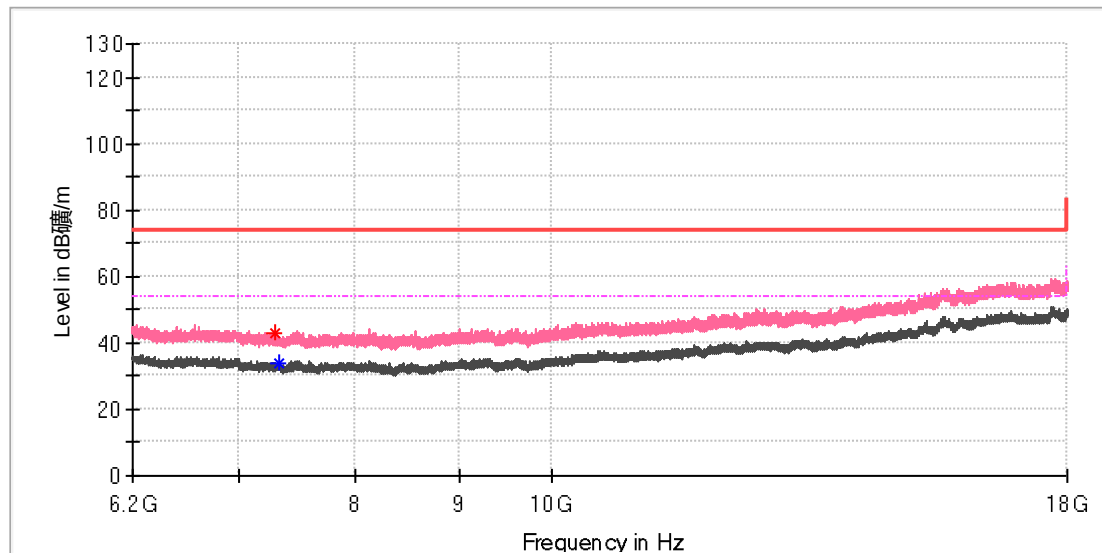
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.741667	---	35.60	54.00	18.40	150.0	H	0.0	8.3
7363.283333	43.85	---	74.00	30.15	150.0	H	18.0	8.2
9747.866667	42.77	---	74.00	31.23	150.0	H	203.0	10.4
9747.866667	---	37.78	54.00	16.22	150.0	H	203.0	10.4

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

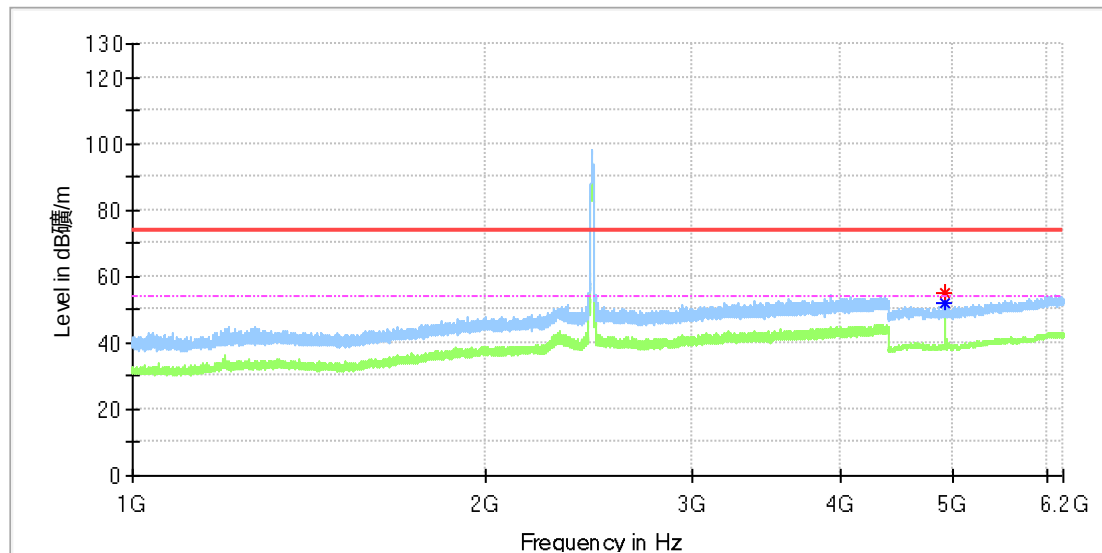
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7301.333333	42.84	---	74.00	31.16	150.0	V	253.0	8.3
7324.933333	---	33.56	54.00	20.44	150.0	V	13.0	8.2

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

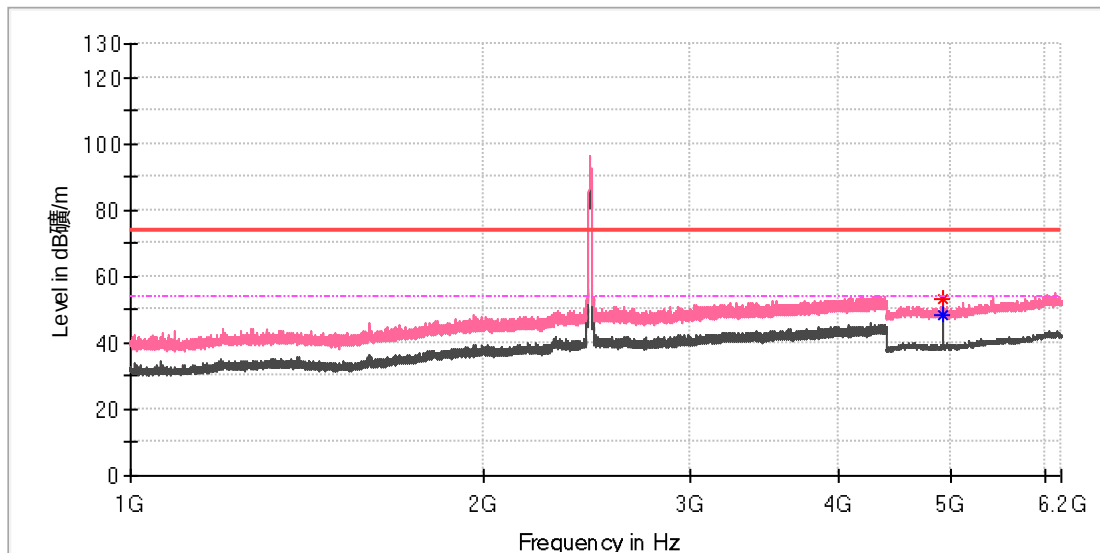
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	55.26	---	74.00	18.74	150.0	H	188.0	11.8
4924.000000	---	51.94	54.00	2.06	150.0	H	194.0	11.8

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

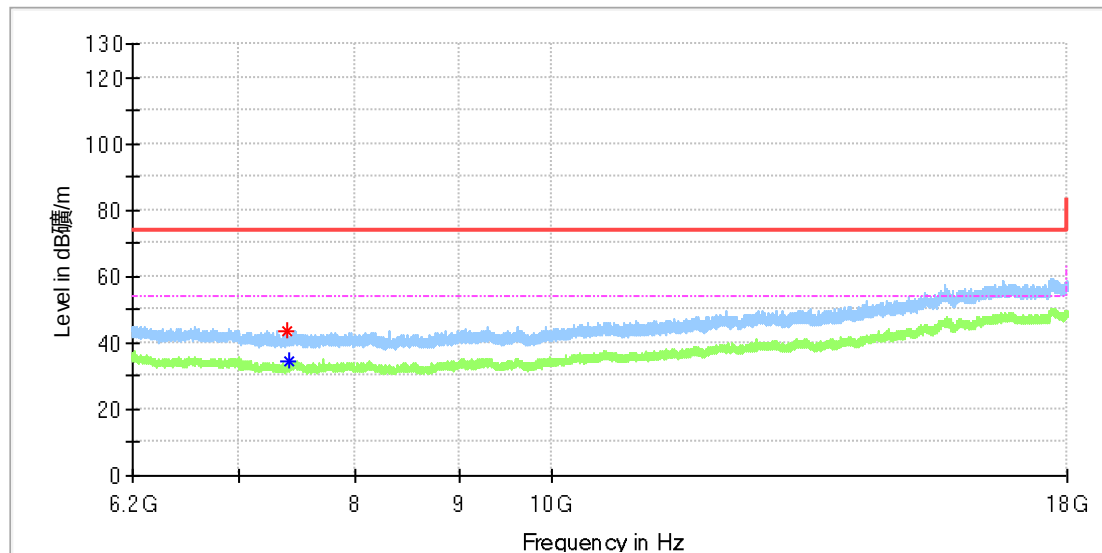
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	53.02	---	74.00	20.98	150.0	V	102.0	11.8
4924.000000	---	48.23	54.00	5.77	150.0	V	108.0	11.8

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

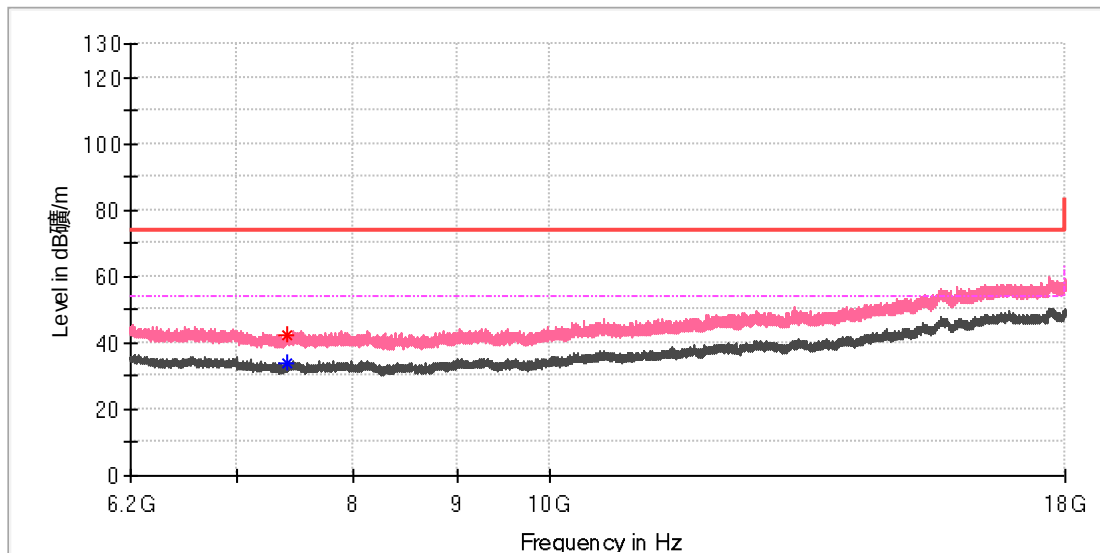
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7387.375000	43.32	---	74.00	30.68	150.0	H	182.0	8.2
7407.041667	---	34.56	54.00	19.44	150.0	H	33.0	8.3

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

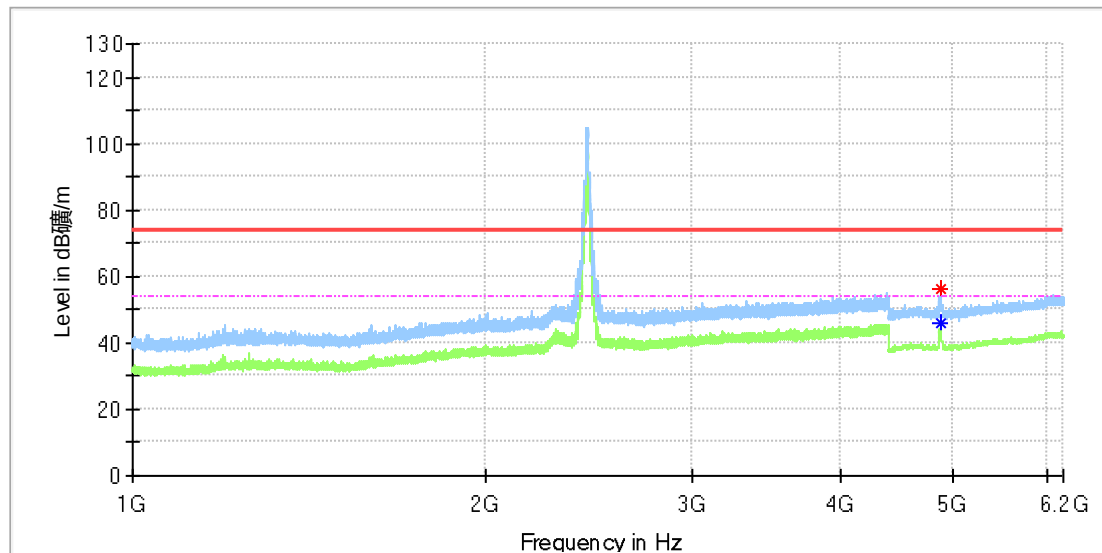
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7419.333333	42.15	---	74.00	31.85	150.0	V	18.0	8.4
7419.333333	---	33.76	54.00	20.24	150.0	V	18.0	8.4

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

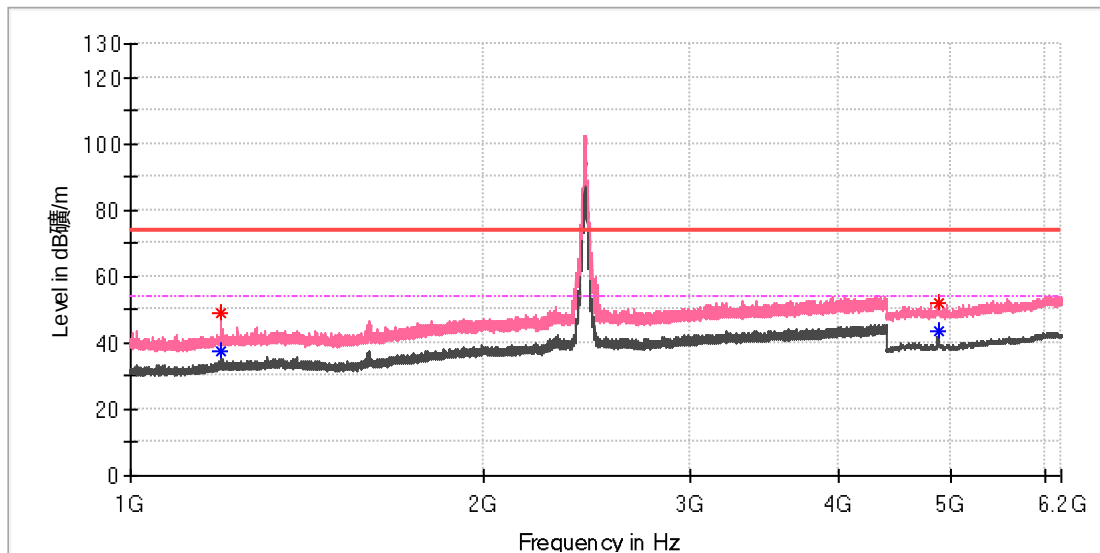
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	46.17	54.00	7.83	150.0	H	189.0	11.8
4875.500000	56.51	---	74.00	17.49	150.0	H	202.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

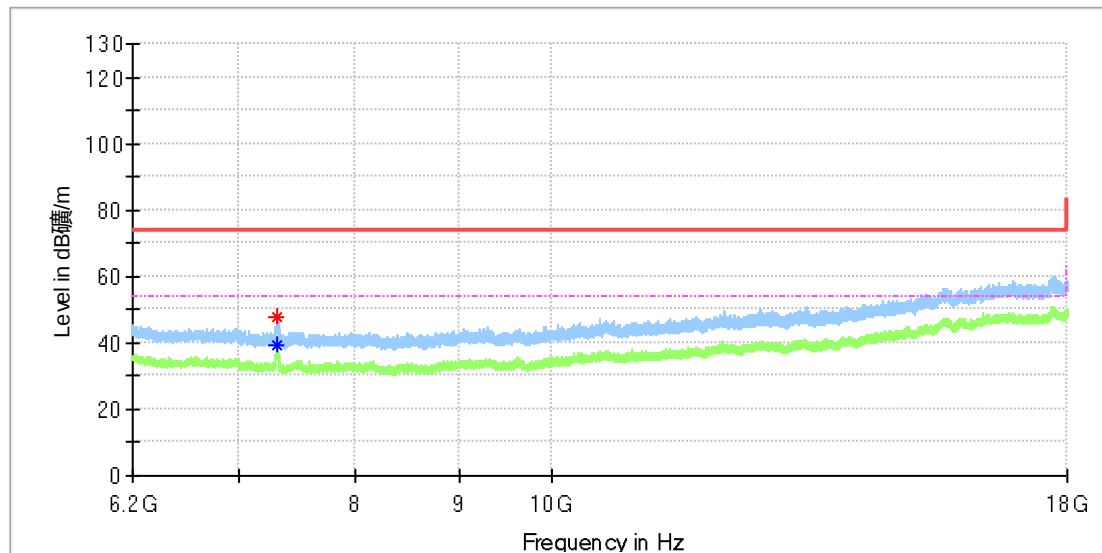
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1194.820000	48.83	---	74.00	25.17	150.0	V	346.0	1.1
1194.820000	---	37.33	54.00	16.67	150.0	V	346.0	1.1
4869.500000	52.19	---	74.00	21.81	150.0	V	95.0	11.8
4875.500000	---	43.29	54.00	10.71	150.0	V	101.0	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: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

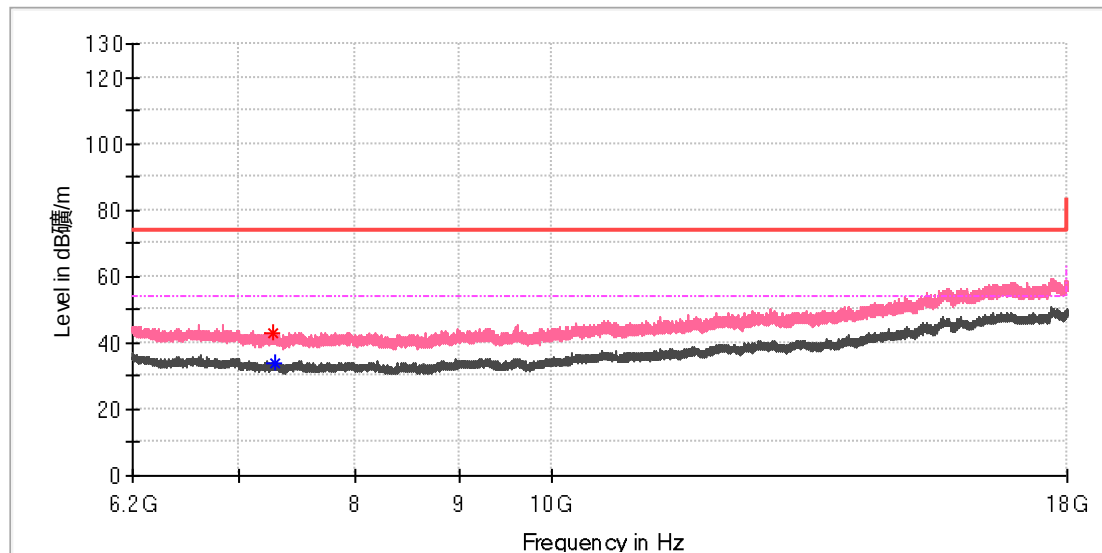
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	47.98	---	74.00	26.02	150.0	H	0.0	8.2
7311.166667	---	39.10	54.00	14.90	150.0	H	3.0	8.2

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

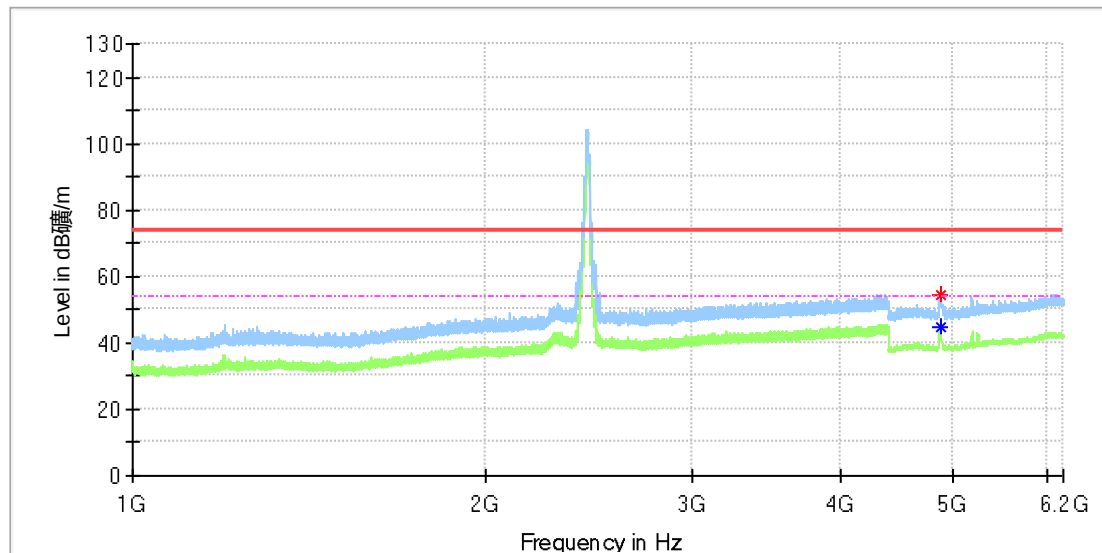
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7272.325000	43.11	---	74.00	30.89	150.0	V	73.0	8.4
7296.416667	---	33.87	54.00	20.13	150.0	V	98.0	8.3

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

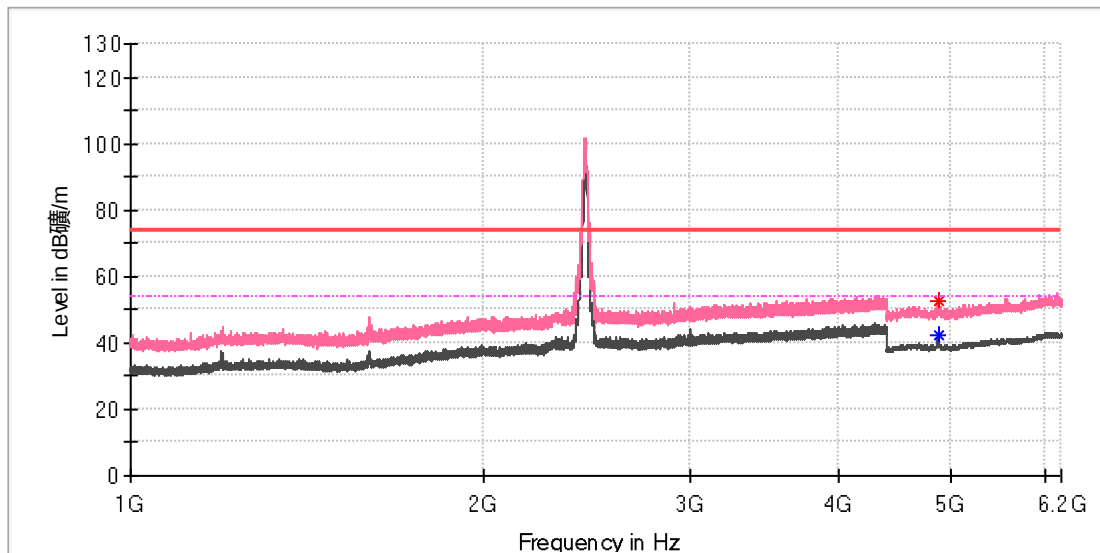
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.500000	---	44.88	54.00	9.12	150.0	H	208.0	11.8
4877.000000	54.58	---	74.00	19.42	150.0	H	196.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

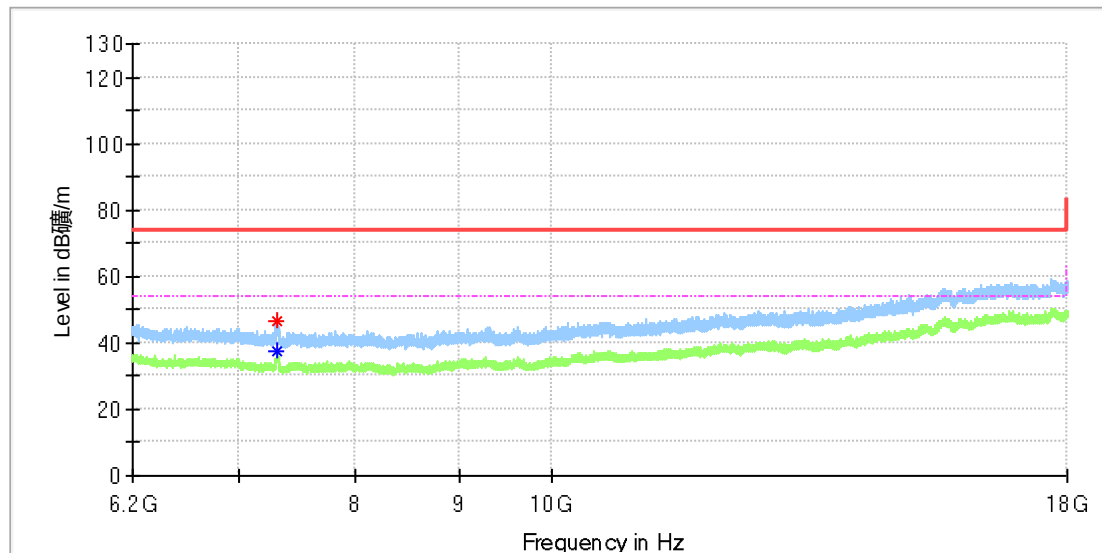
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4869.500000	52.49	---	74.00	21.51	150.0	V	97.0	11.8
4872.000000	---	42.06	54.00	11.94	150.0	V	97.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

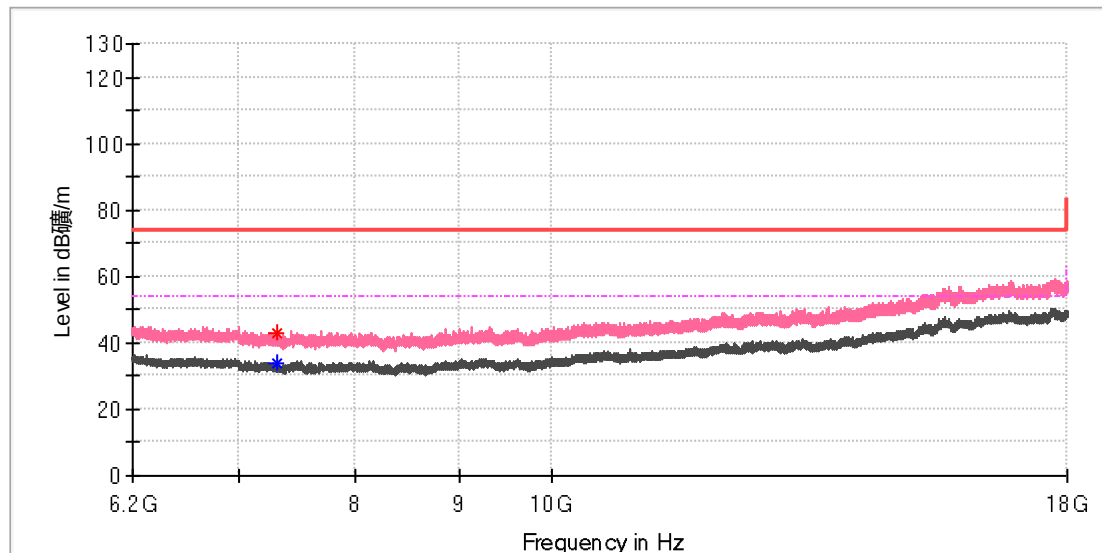
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7303.791667	46.37	---	74.00	27.63	150.0	H	0.0	8.3
7307.725000	---	37.51	54.00	16.49	150.0	H	0.0	8.3

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

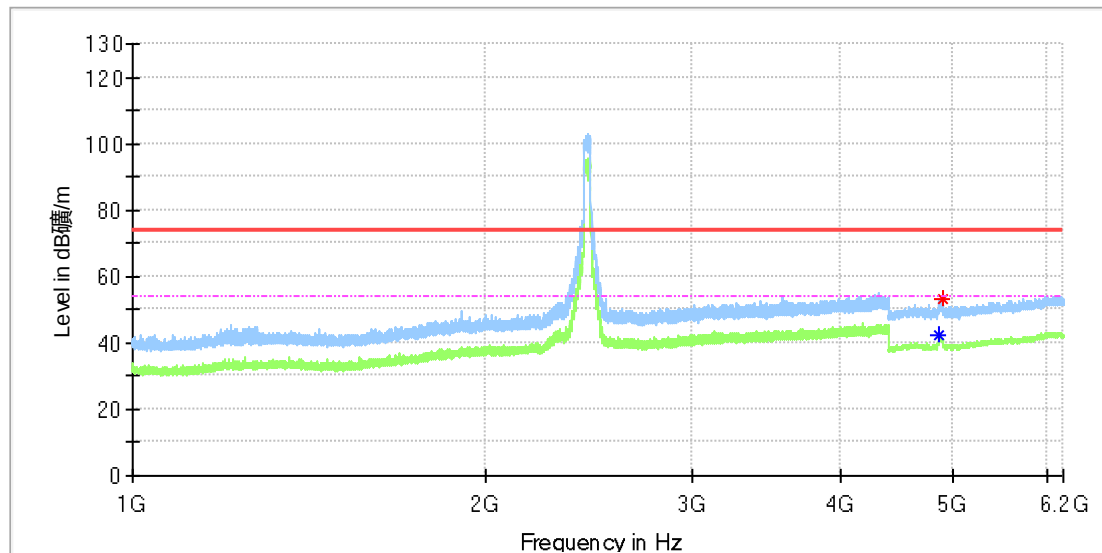
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7302.808333	42.68	---	74.00	31.32	150.0	V	28.0	8.3
7304.283333	---	33.66	54.00	20.34	150.0	V	189.0	8.3

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

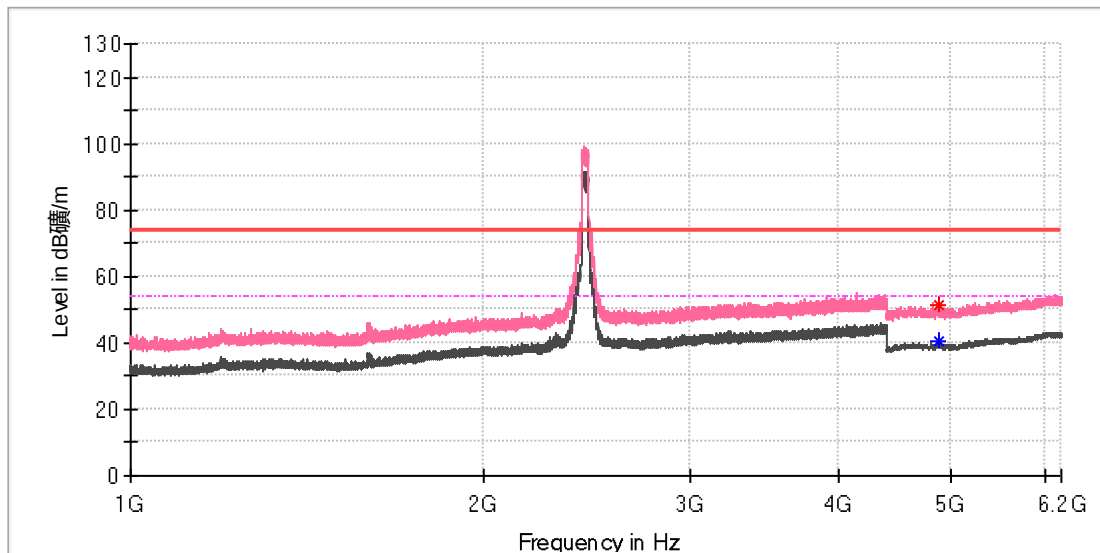
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4861.500000	---	42.41	54.00	11.59	150.0	H	203.0	11.8
4892.500000	52.98	---	74.00	21.02	150.0	H	196.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

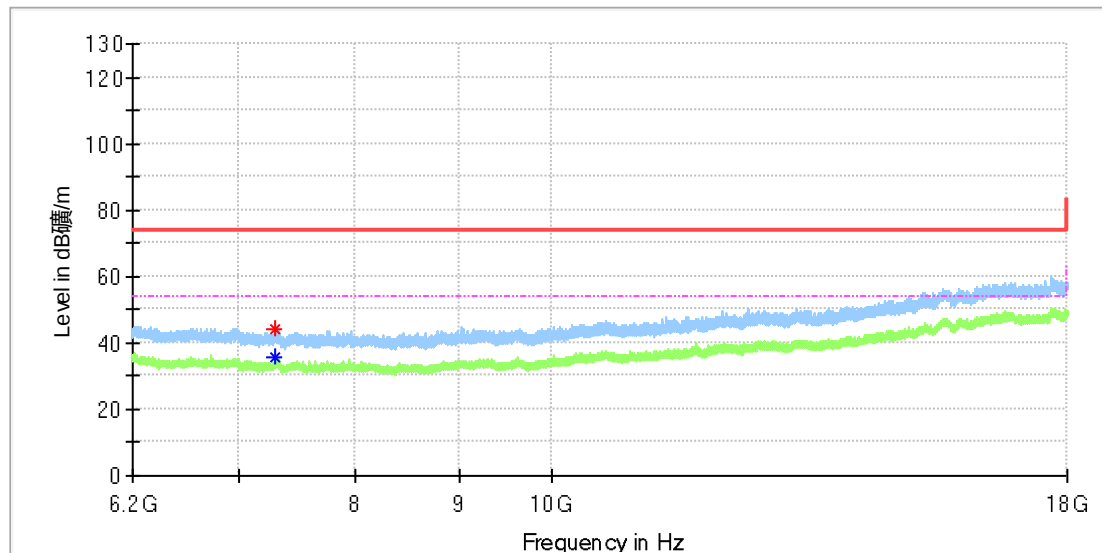
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	51.45	---	74.00	22.55	150.0	V	60.0	11.8
4874.000000	---	40.47	54.00	13.53	150.0	V	60.0	11.8

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

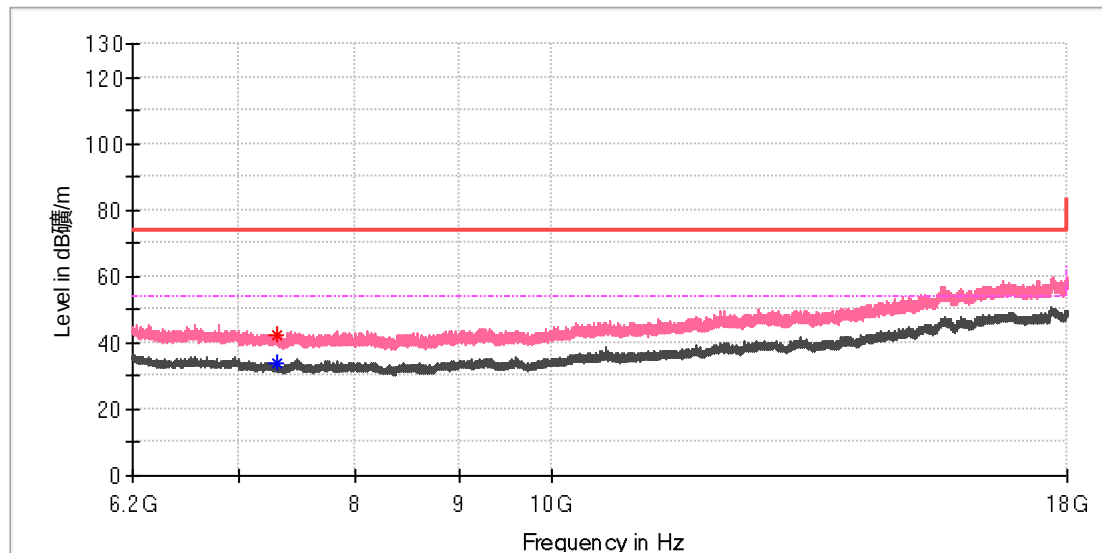
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7296.908333	44.02	---	74.00	29.98	150.0	H	0.0	8.3
7296.908333	---	35.43	54.00	18.57	150.0	H	0.0	8.3

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch6
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
7304.283333	42.47	---	74.00	31.53	150.0	V	191.0	8.3
7304.775000	---	34.06	54.00	19.94	150.0	V	45.0	8.3

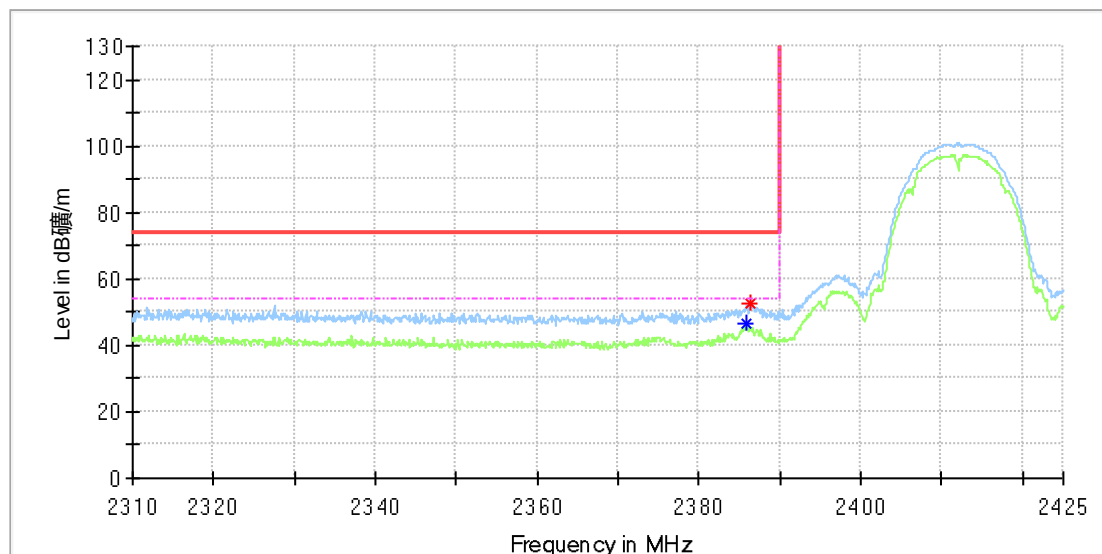
Final_Result

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

Appendix A.4: Test Results of Radiated Emissions in Restricted Bands, 2.4GHz Wi-Fi

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

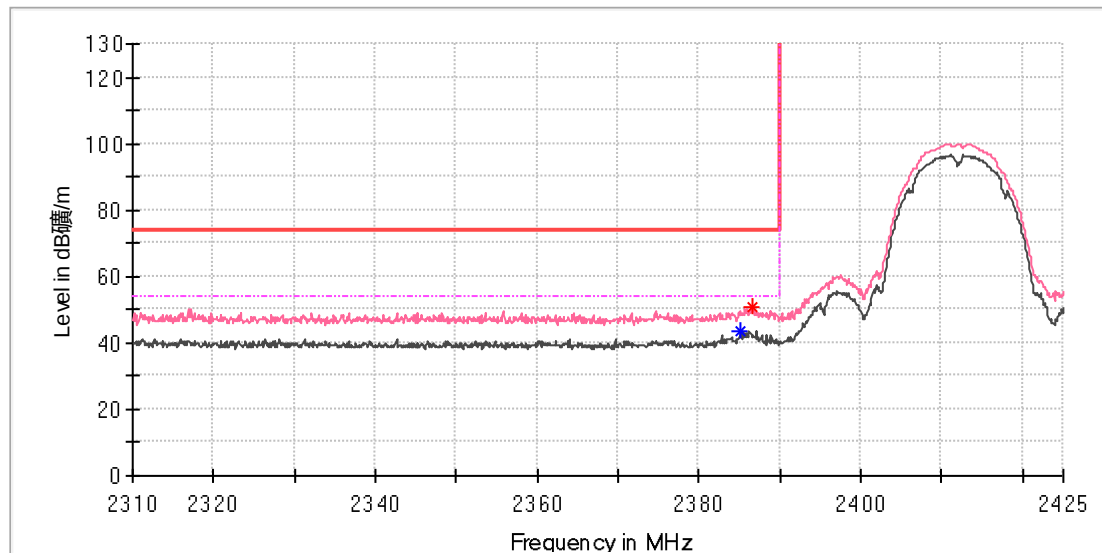
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.900000	---	46.64	54.00	7.36	150.0	H	280.0	7.0
2386.400000	52.68	---	74.00	21.32	150.0	H	271.0	7.0

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

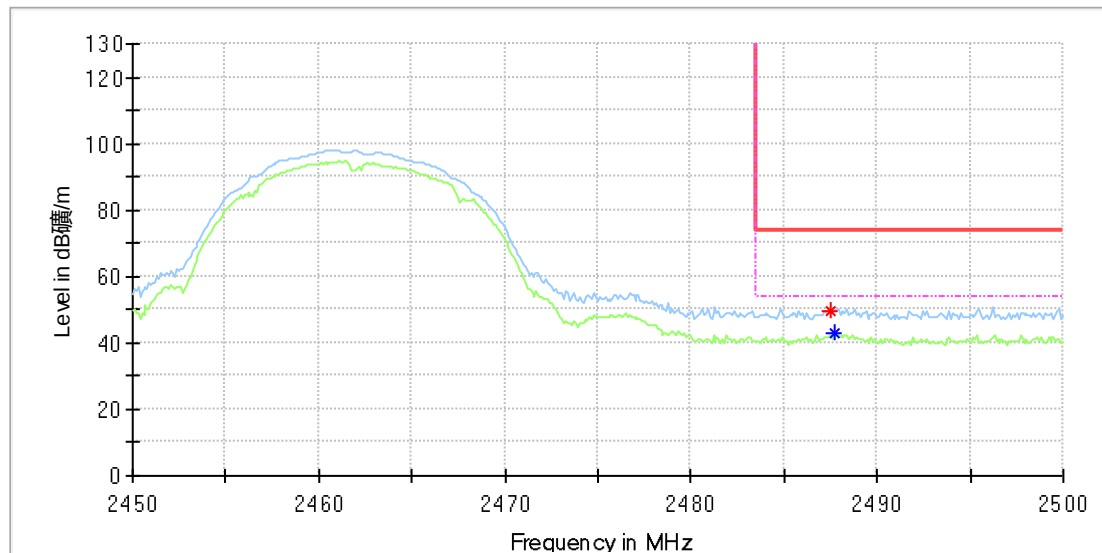
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.200000	---	43.76	54.00	10.24	150.0	V	0.0	7.0
2386.600000	50.79	---	74.00	23.21	150.0	V	302.0	7.0

Final_Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

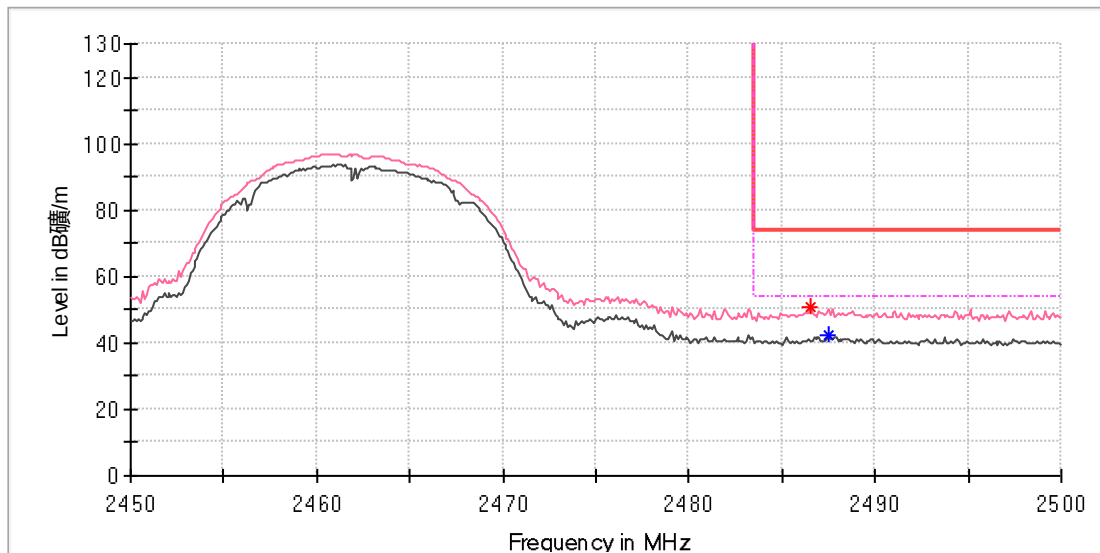
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.500000	49.88	---	74.00	24.12	150.0	H	292.0	7.4
2487.700000	---	42.81	54.00	11.19	150.0	H	274.0	7.4

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

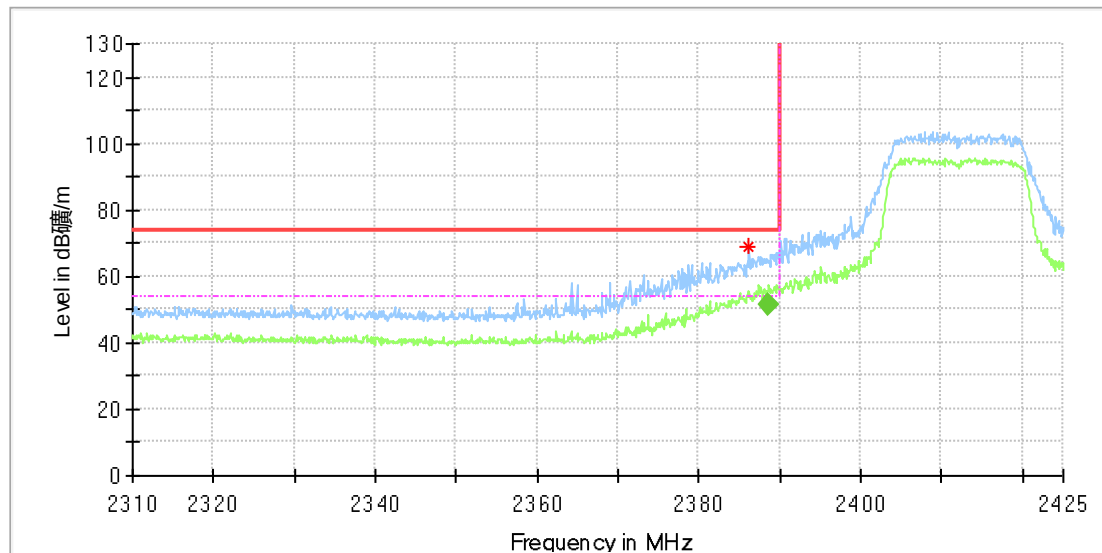
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.500000	51.05	---	74.00	22.95	150.0	V	60.0	7.4
2487.500000	---	42.18	54.00	11.82	150.0	V	42.0	7.4

Final Result

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

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

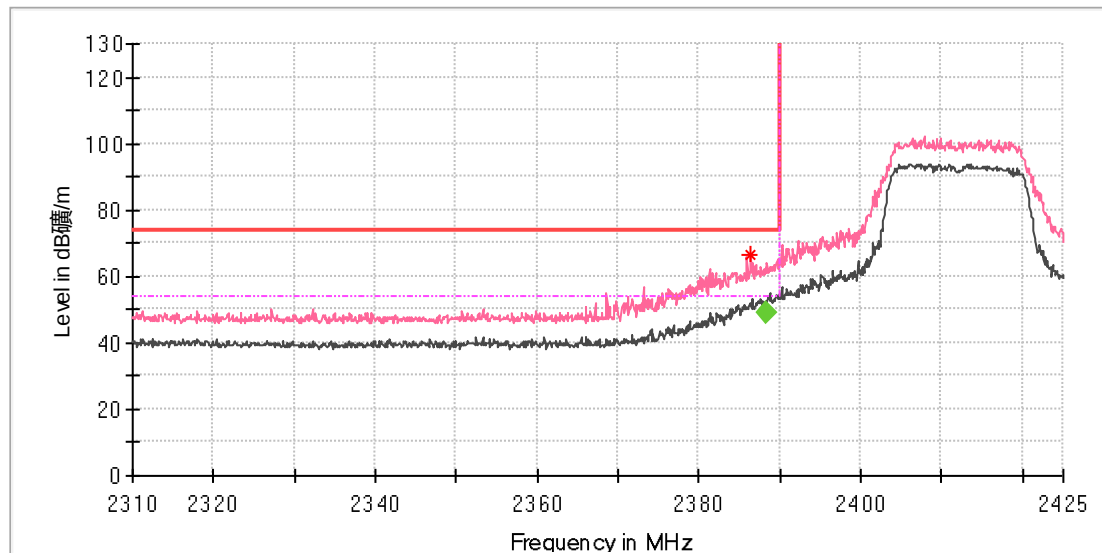
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.200000	69.03	---	74.00	4.97	150.0	H	263.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.479450	51.43	54.00	2.57	150.0	H	262.0	7.0

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

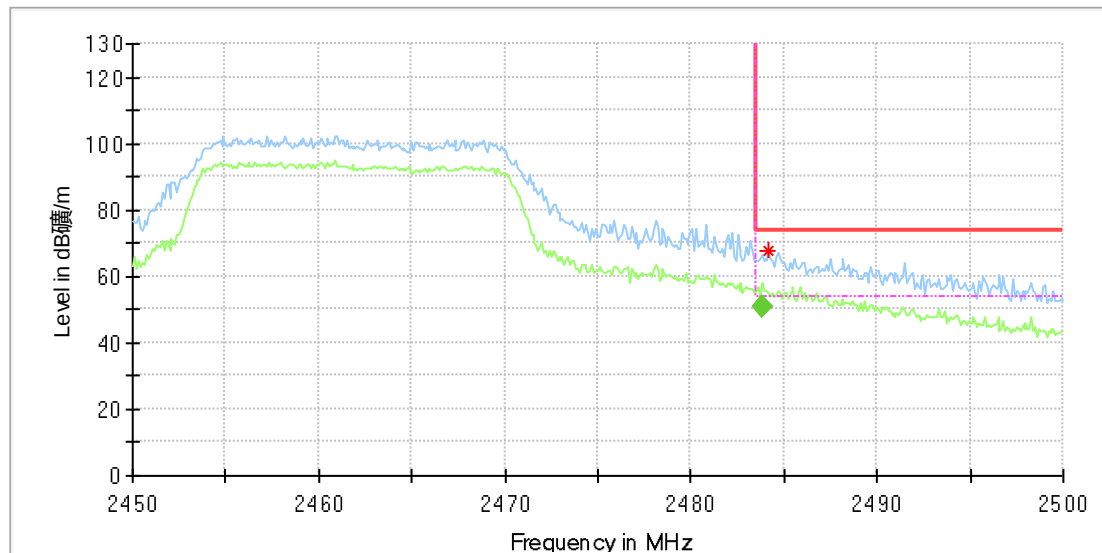
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.400000	66.21	---	74.00	7.79	150.0	V	0.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.430550	49.02	54.00	4.98	150.0	V	38.0	7.0

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

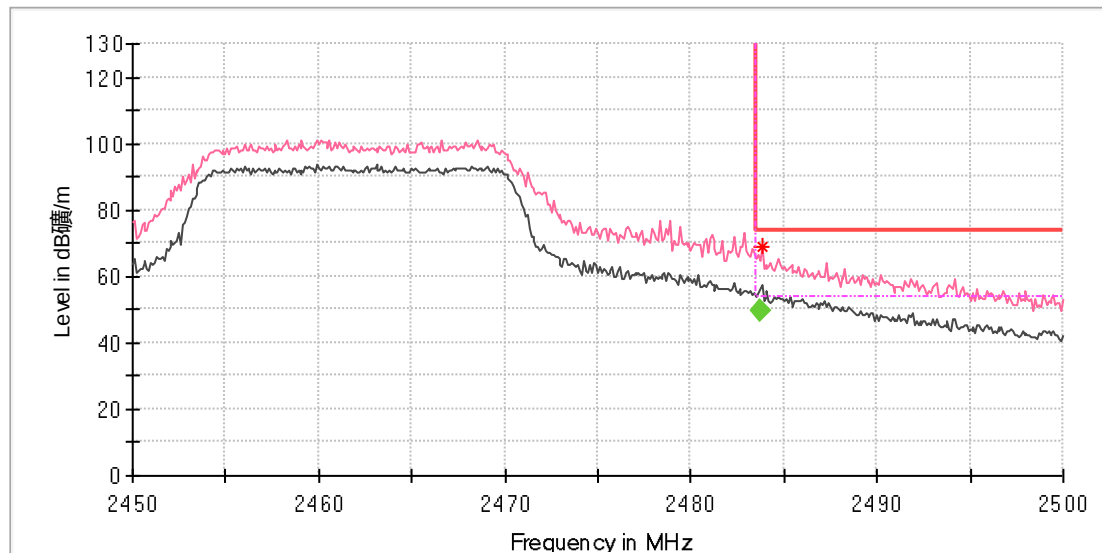
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.200000	67.52	---	74.00	6.48	150.0	H	203.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.821300	50.96	54.00	3.04	148.0	H	275.0	7.4

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11g_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

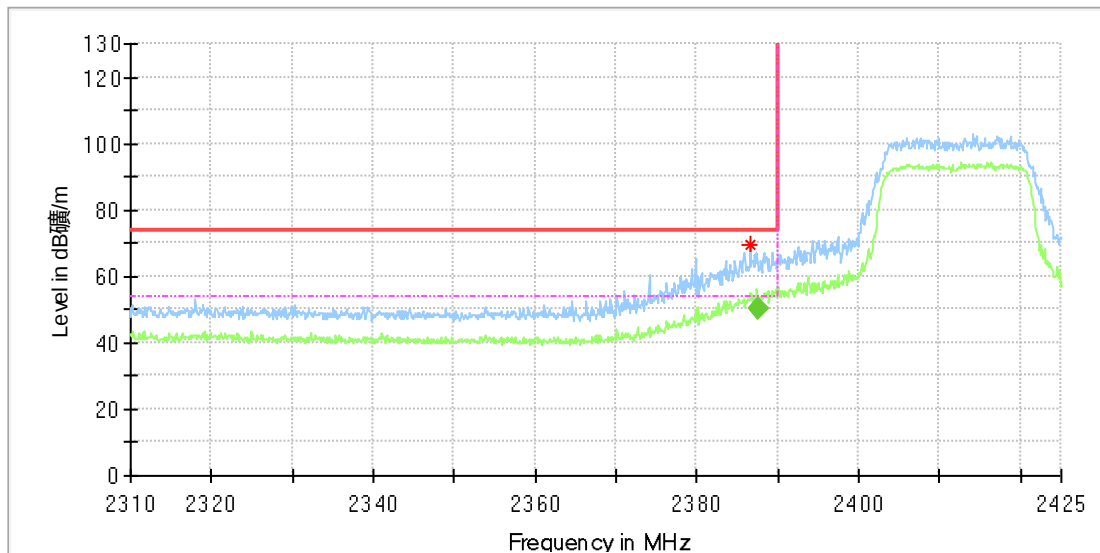
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.800000	68.67	---	74.00	5.33	150.0	V	45.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.723750	49.40	54.00	4.60	148.0	V	-3.0	7.4

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

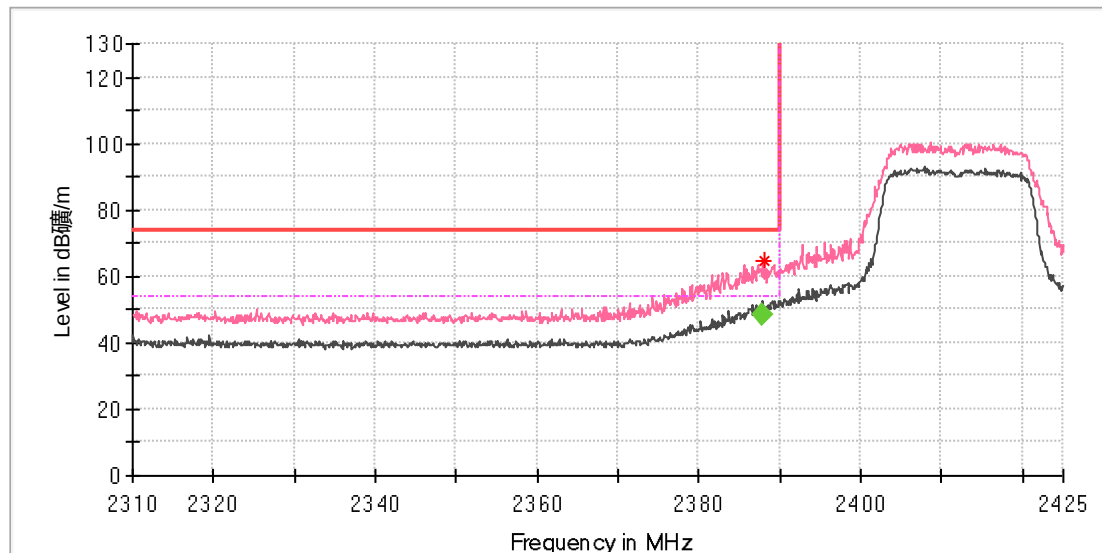
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.600000	69.43	---	74.00	4.57	150.0	H	247.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.505200	50.15	54.00	3.85	149.0	H	260.0	7.0

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch1
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

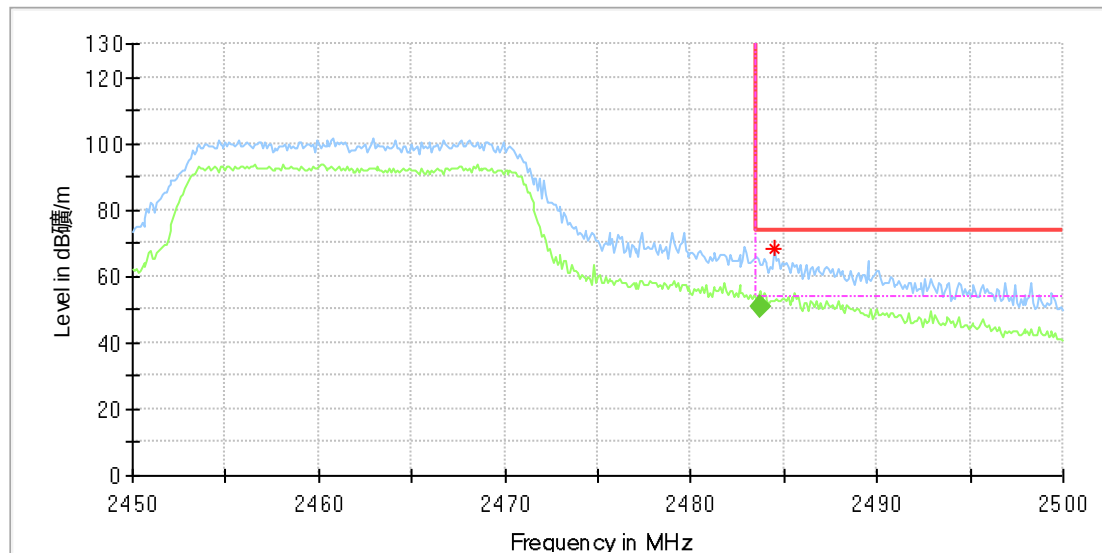
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.000000	64.54	---	74.00	9.46	150.0	V	54.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.934750	48.13	54.00	5.87	149.0	V	194.0	7.0

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

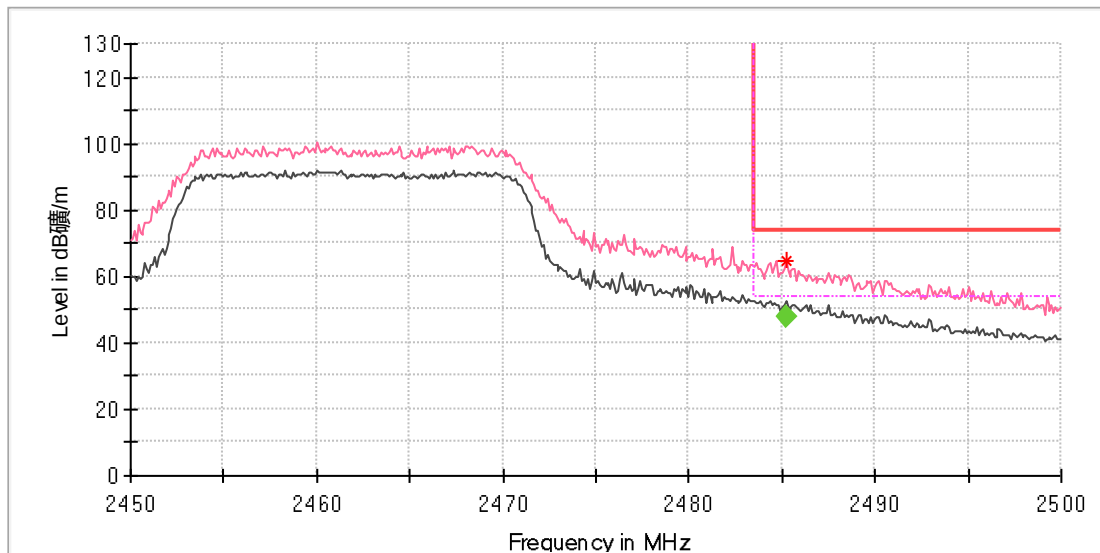
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.500000	68.15	---	74.00	5.85	150.0	H	77.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.743600	50.66	54.00	3.34	147.0	H	241.0	7.4

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n20_Ch11
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

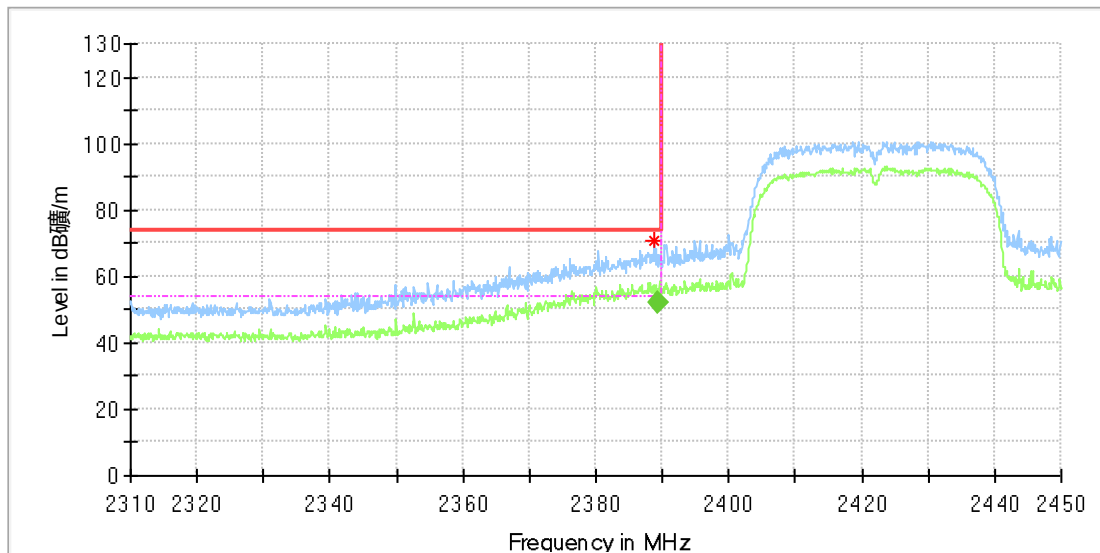
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.200000	64.78	---	74.00	9.22	150.0	V	71.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.209500	47.89	54.00	6.11	147.0	V	66.0	7.4

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch3
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

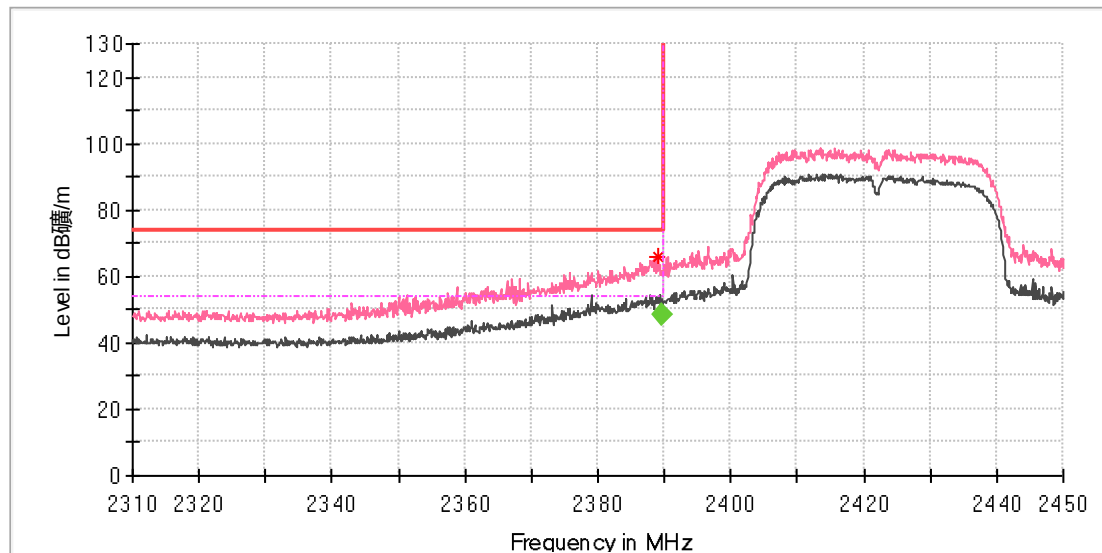
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.700000	70.51	---	74.00	3.49	150.0	H	261.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.466050	51.93	54.00	2.07	148.0	H	273.0	7.0

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch3
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

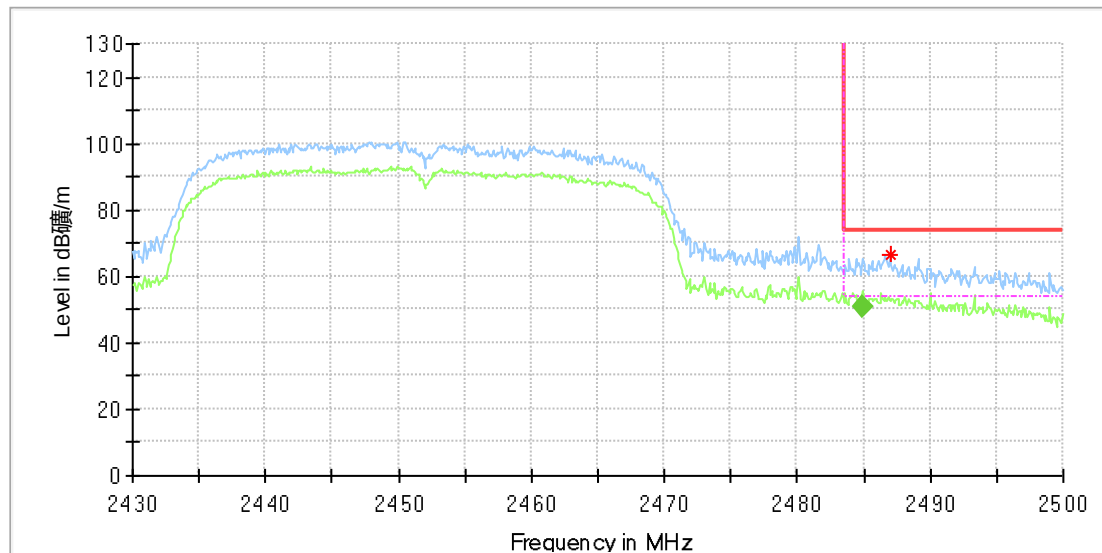
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.100000	65.67	---	74.00	8.33	150.0	V	38.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.608200	48.51	54.00	5.49	155.0	V	27.0	7.0

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

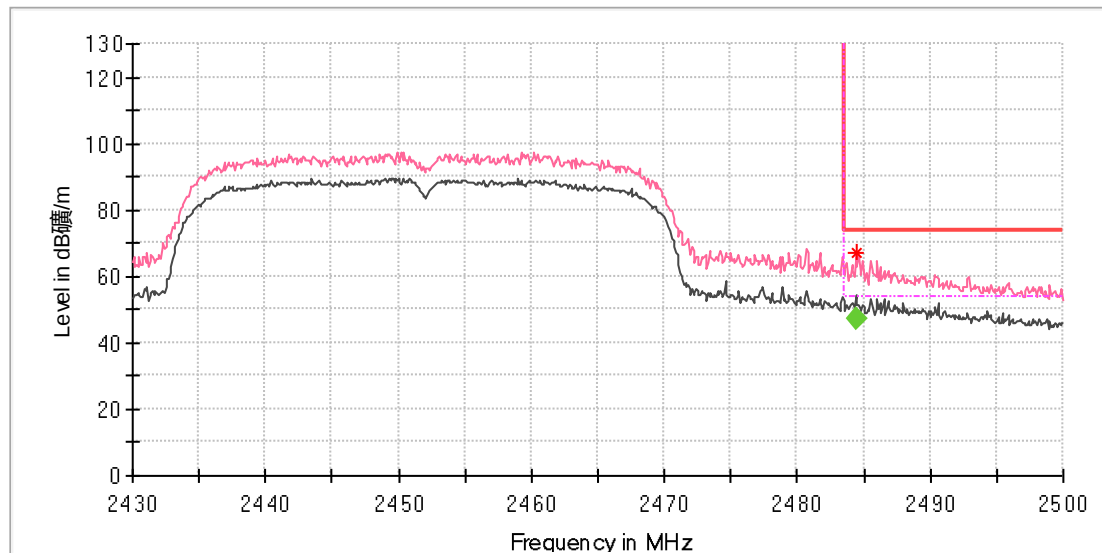
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.000000	66.70	---	74.00	7.30	150.0	H	267.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.903900	50.57	54.00	3.43	145.0	H	244.0	7.4

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168460375/A003497474-002
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
2484.400000	67.00	---	74.00	7.00	150.0	V	66.0	7.4

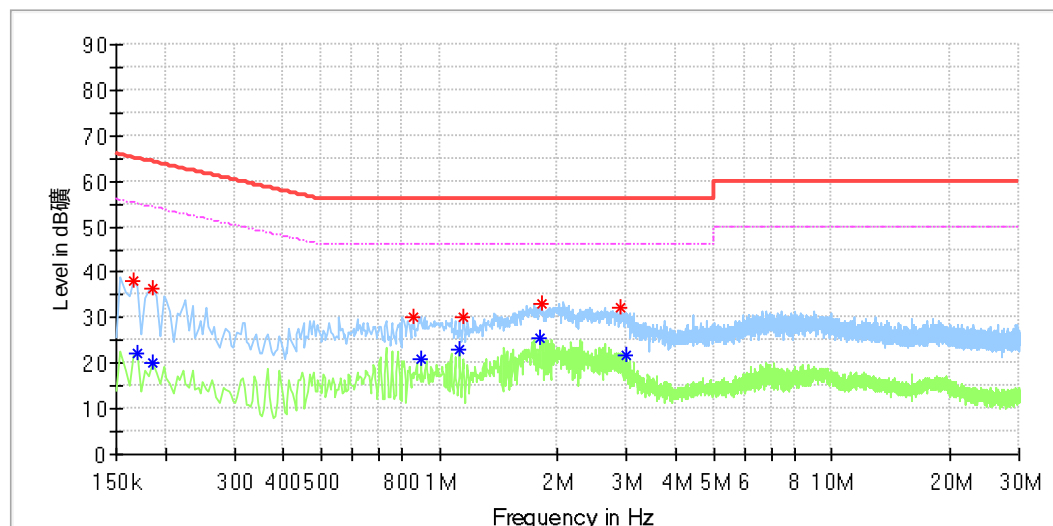
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.406800	47.18	54.00	6.82	145.0	V	65.0	7.4

Appendix A.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: WIFI+BT
Order No/Sample No: 168460375/A003497474-002
Test Voltage: 120Vac, 60Hz
Remark: 23.6°C/51.5%/101kPa
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

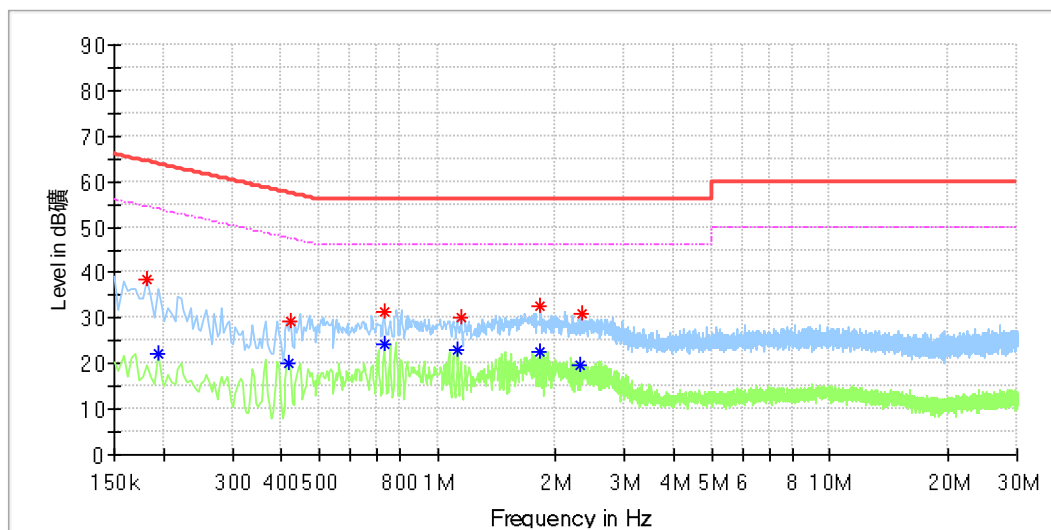


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.166000	37.95	---	65.16	27.21	L1	9.9
0.170000	---	22.30	54.96	32.66	L1	9.9
0.186000	---	19.89	54.21	34.32	L1	9.9
0.186000	36.27	---	64.21	27.95	L1	9.9
0.862000	30.33	---	56.00	25.67	L1	10.0
0.898000	---	20.87	46.00	25.13	L1	10.0
1.122000	---	22.93	46.00	23.07	L1	10.0
1.154000	30.11	---	56.00	25.89	L1	10.1
1.802000	---	25.45	46.00	20.55	L1	10.1
1.826000	32.88	---	56.00	23.12	L1	10.1
2.878000	32.36	---	56.00	23.64	L1	10.2
2.974000	---	21.74	46.00	24.26	L1	10.2

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	WIFI+BT
Order No/Sample No:	168460375/A003497474-002
Test Voltage:	120Vac, 60Hz
Remark:	23.6°C/51.5%/101kPa
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.182000	38.33	---	64.39	26.07	N	9.8
0.194000	---	22.31	53.86	31.55	N	9.8
0.418000	---	20.18	47.49	27.30	N	9.8
0.422000	29.42	---	57.41	27.99	N	9.8
0.730000	31.27	---	56.00	24.73	N	9.8
0.730000	---	24.46	46.00	21.54	N	9.8
1.122000	---	22.98	46.00	23.02	N	9.8
1.150000	29.97	---	56.00	26.03	N	9.8
1.830000	---	22.77	46.00	23.23	N	9.8
1.830000	32.79	---	56.00	23.21	N	9.8
2.298000	---	19.56	46.00	26.44	N	9.9
2.322000	30.96	---	56.00	25.04	N	9.9