



Appendix A.8: Test Results of Radiated Spurious Emissions

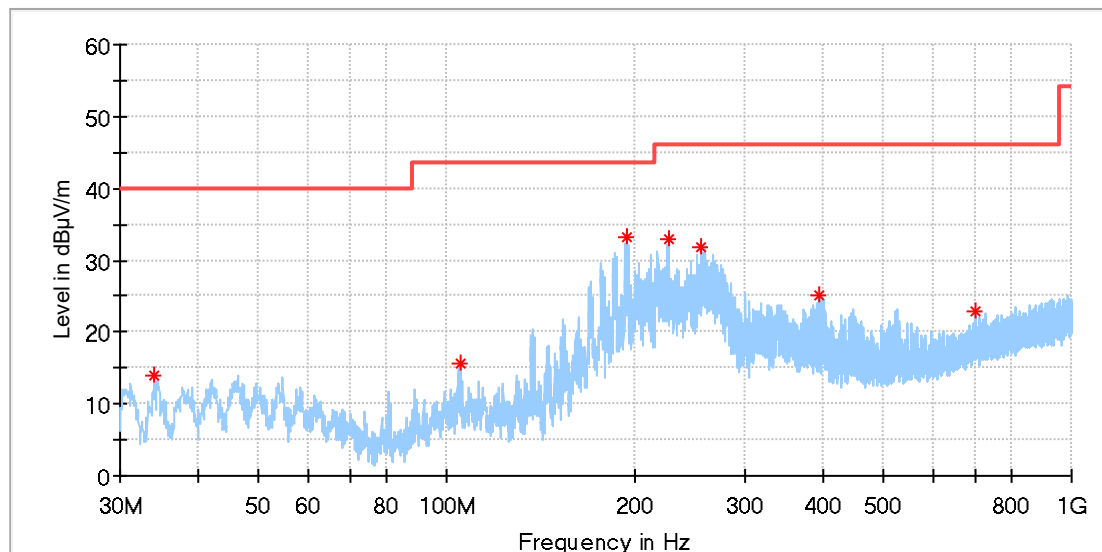
Note:

- 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:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

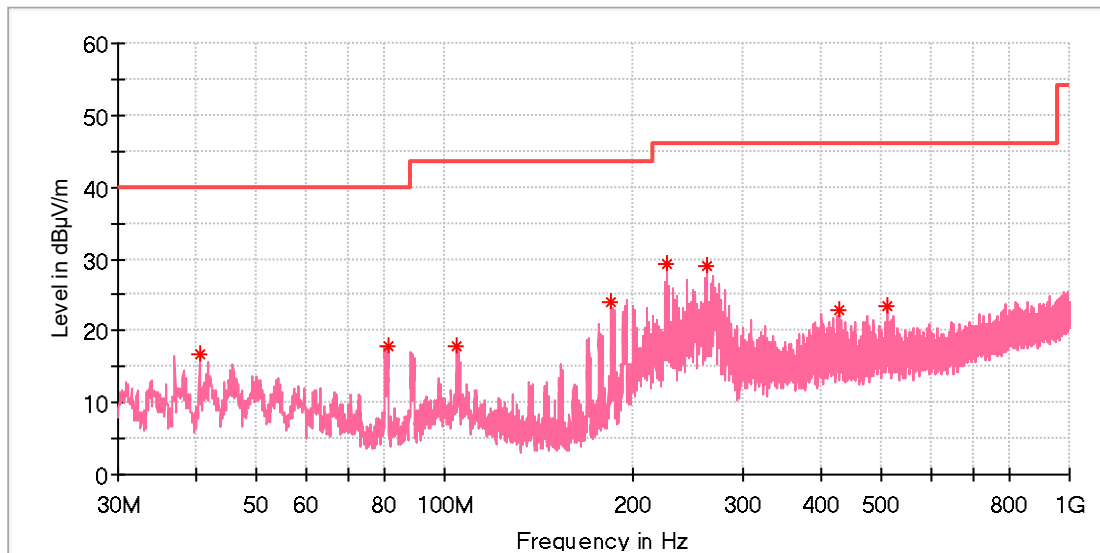
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.987778	13.81	40.00	26.19	100.0	H	169.0	-22.3
105.336667	15.69	43.50	27.81	100.0	H	302.0	-18.9
194.846111	33.08	43.50	10.42	100.0	H	242.0	-19.3
226.586667	32.98	46.00	13.02	100.0	H	242.0	-18.3
254.878333	31.86	46.00	14.14	100.0	H	225.0	-17.2
395.097222	25.05	46.00	20.95	100.0	H	102.0	-13.9
700.970556	22.79	46.00	23.21	100.0	H	0.0	-7.9

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: WIFI+BT Module
Model: WKCT2VM2511
Test Mode: BR DH5_Mid channel
Order No/Sample No: 168583409/A004135263-004
Test Voltage: DC 5V From USB
Remark: Temp 22 Humi:55%
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)
40.562222	16.75	40.00	23.25	100.0	V	72.0	-20.0
80.978889	17.96	40.00	22.04	100.0	V	256.0	-23.4
104.312778	17.85	43.50	25.65	100.0	V	210.0	-18.9
184.984444	23.96	43.50	19.54	100.0	V	152.0	-20.1
227.287222	29.33	46.00	16.67	100.0	V	293.0	-18.3
262.476667	28.94	46.00	17.06	100.0	V	256.0	-17.1
427.646111	22.88	46.00	23.12	100.0	V	11.0	-13.1
510.042222	23.39	46.00	22.61	100.0	V	0.0	-11.7

Final Result

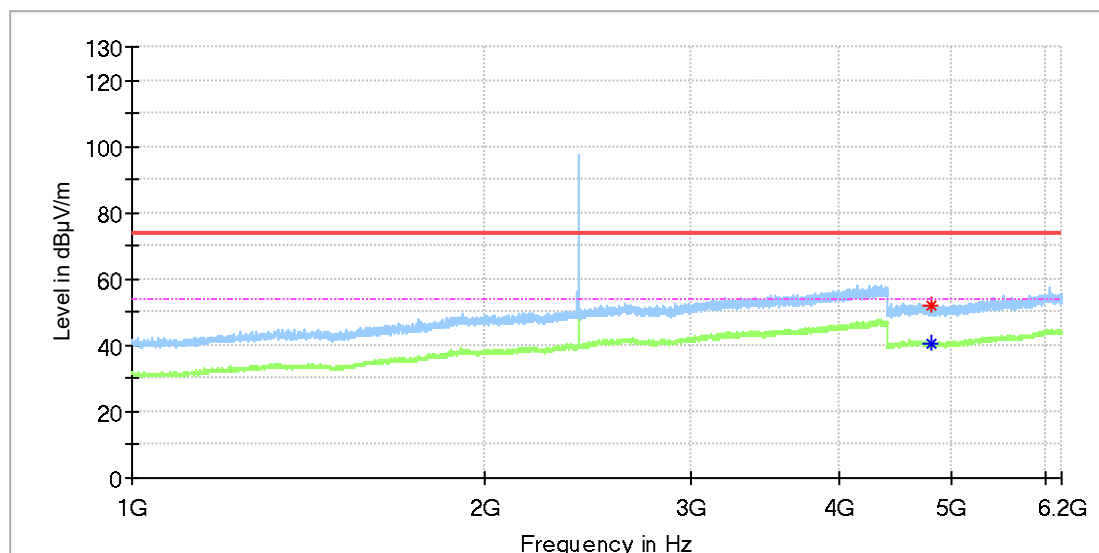
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 18GHz

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

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

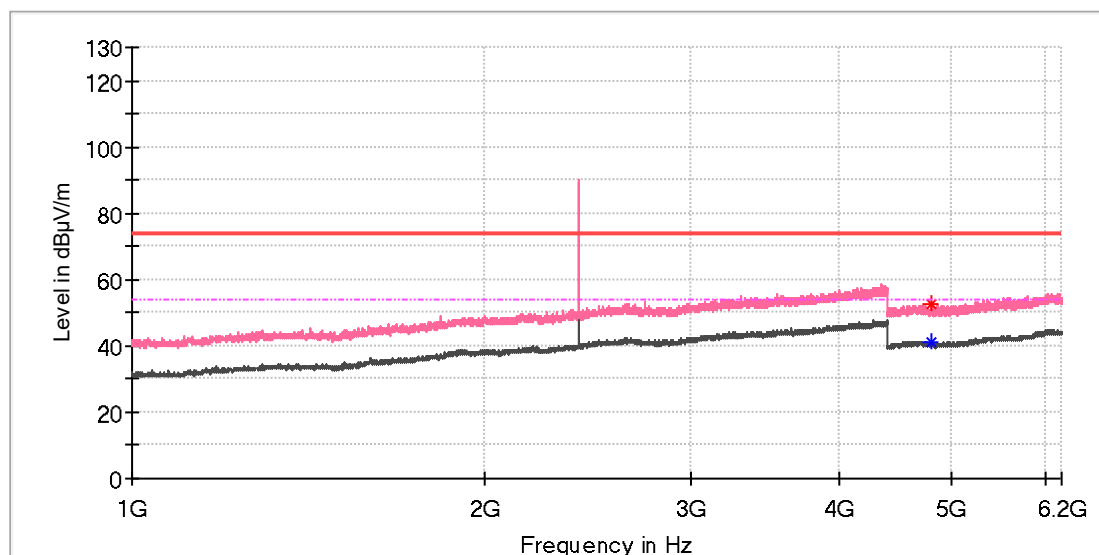
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	52.10	---	74.00	21.90	150.0	H	198.0	13.3
4805.000000	---	40.72	54.00	13.28	150.0	H	228.0	13.3

Final Result

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

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

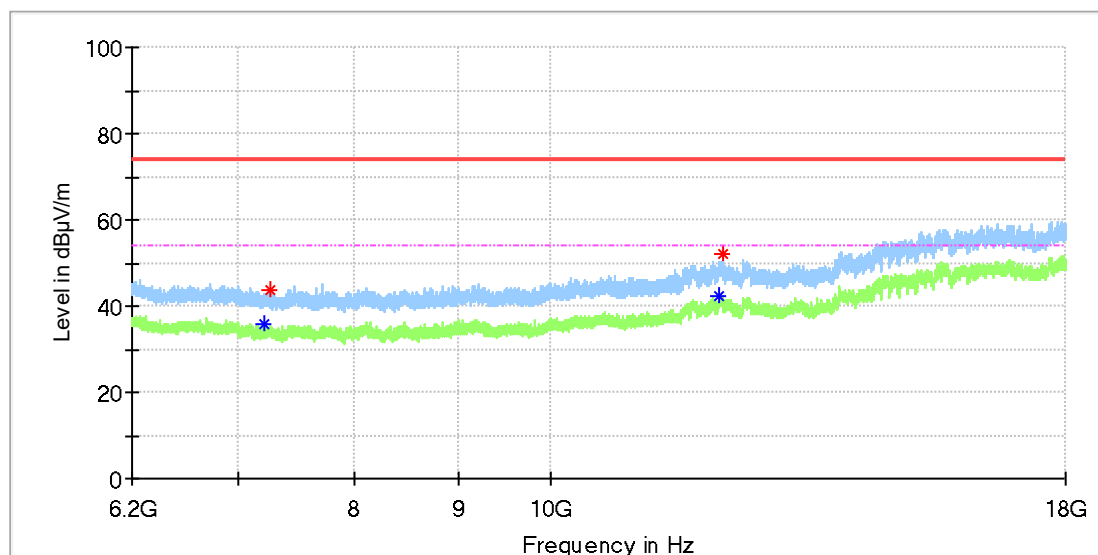
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	40.96	54.00	13.04	150.0	V	287.0	13.3
4807.000000	52.39	---	74.00	21.61	150.0	V	314.0	13.3

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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Critical_Freqs

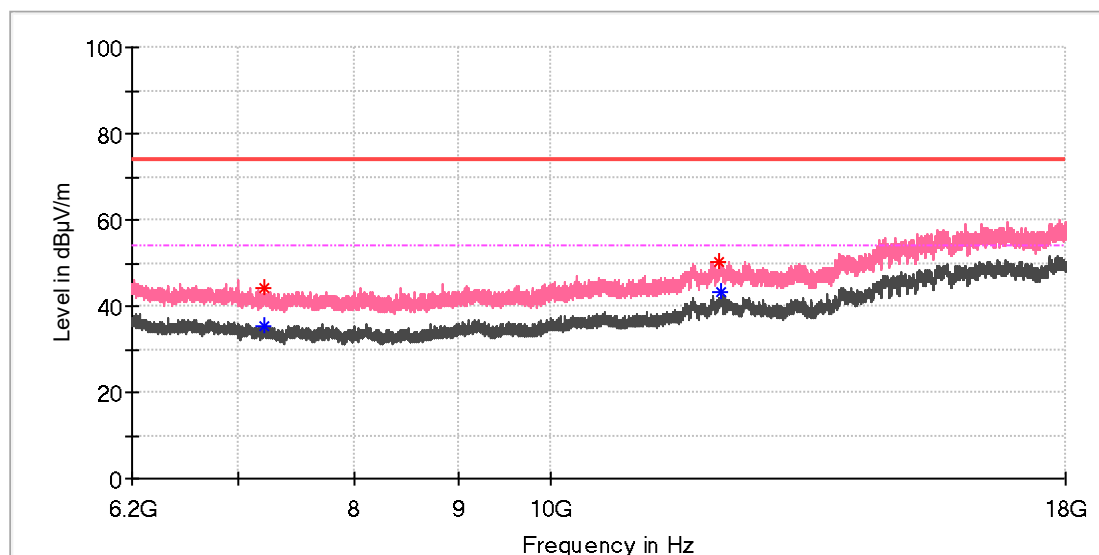
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7215.291667	---	35.78	54.00	18.22	150.0	H	357.0	8.7
7267.900000	43.52	---	74.00	30.48	150.0	H	0.0	8.5
12120.158333	---	42.38	54.00	11.62	150.0	H	163.0	16.0
12162.441667	51.91	---	74.00	22.09	150.0	H	115.0	16.1

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

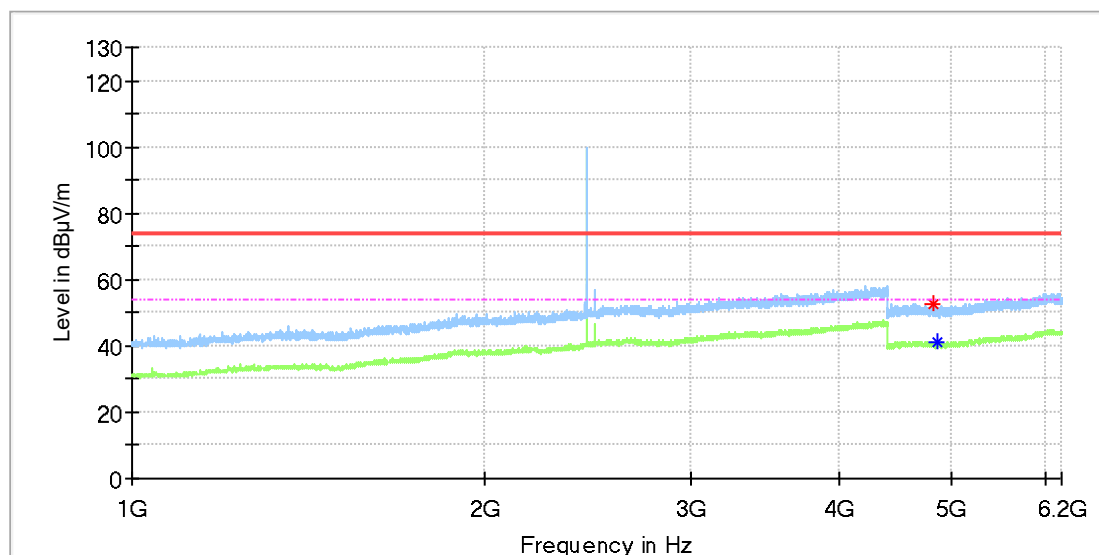
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7211.850000	44.28	---	74.00	29.72	150.0	V	57.0	8.7
7211.850000	---	35.24	54.00	18.76	150.0	V	57.0	8.7
12124.091667	50.40	---	74.00	23.60	150.0	V	139.0	16.1
12146.216667	---	43.11	54.00	10.89	150.0	V	139.0	16.6

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

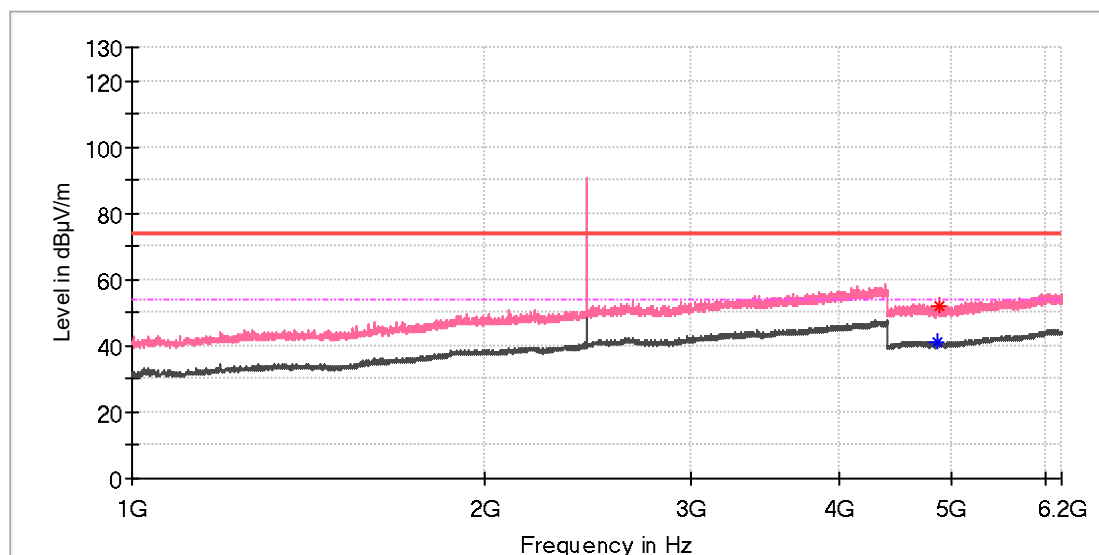
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	52.45	---	74.00	21.55	150.0	H	141.0	13.3
4861.500000	---	40.93	54.00	13.07	150.0	H	203.0	13.3

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

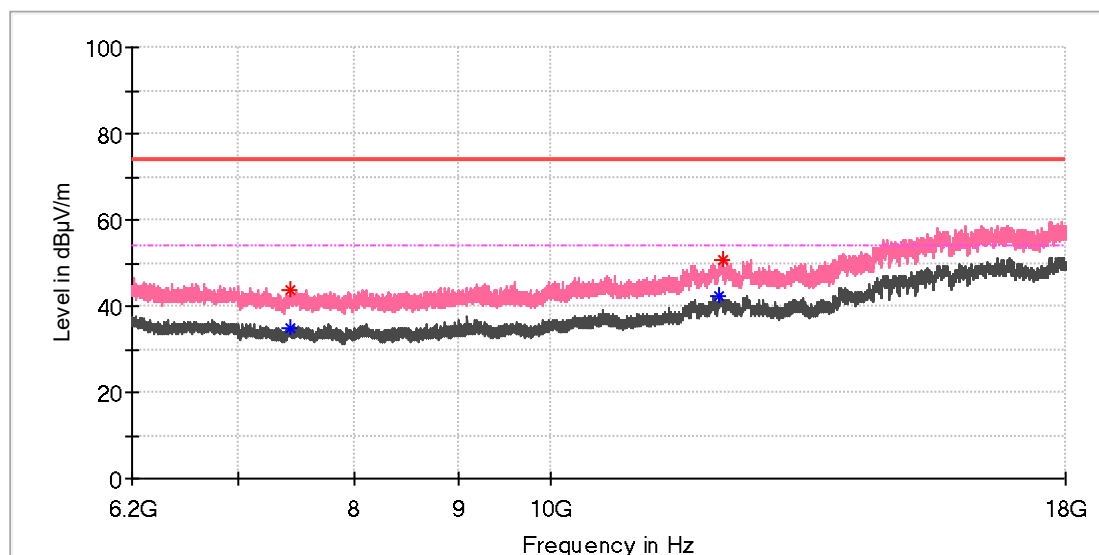
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4853.500000	---	41.18	54.00	12.82	150.0	V	37.0	13.3
4874.000000	51.85	---	74.00	22.15	150.0	V	37.0	13.3

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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Critical_Freqs

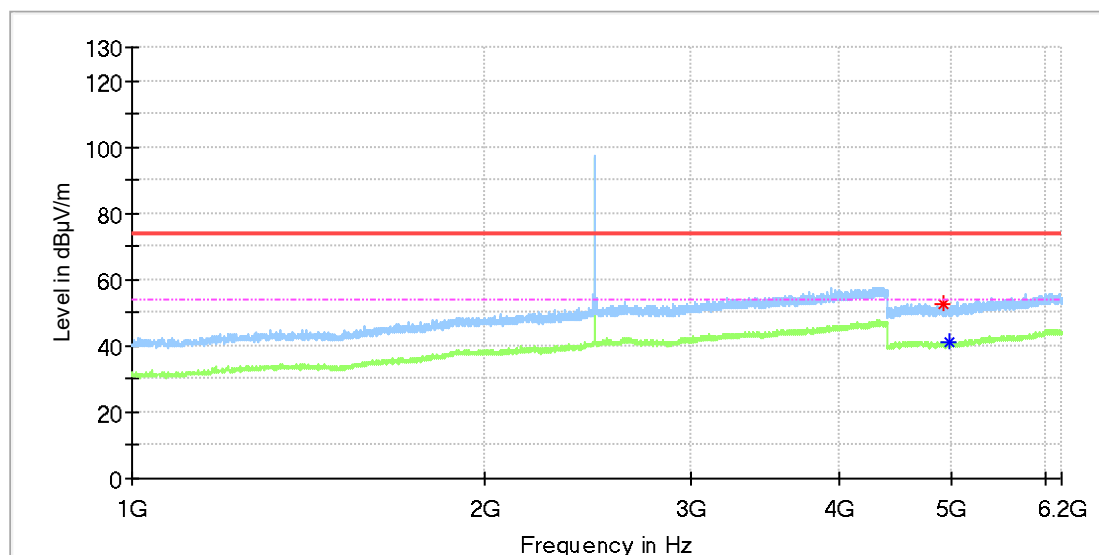
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7422.775000	43.95	---	74.00	30.05	150.0	V	2.0	8.4
7432.608333	---	35.02	54.00	18.98	150.0	V	155.0	8.4
12112.783333	---	42.55	54.00	11.45	150.0	V	144.0	15.8
12160.475000	50.62	---	74.00	23.38	150.0	V	2.0	16.2

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

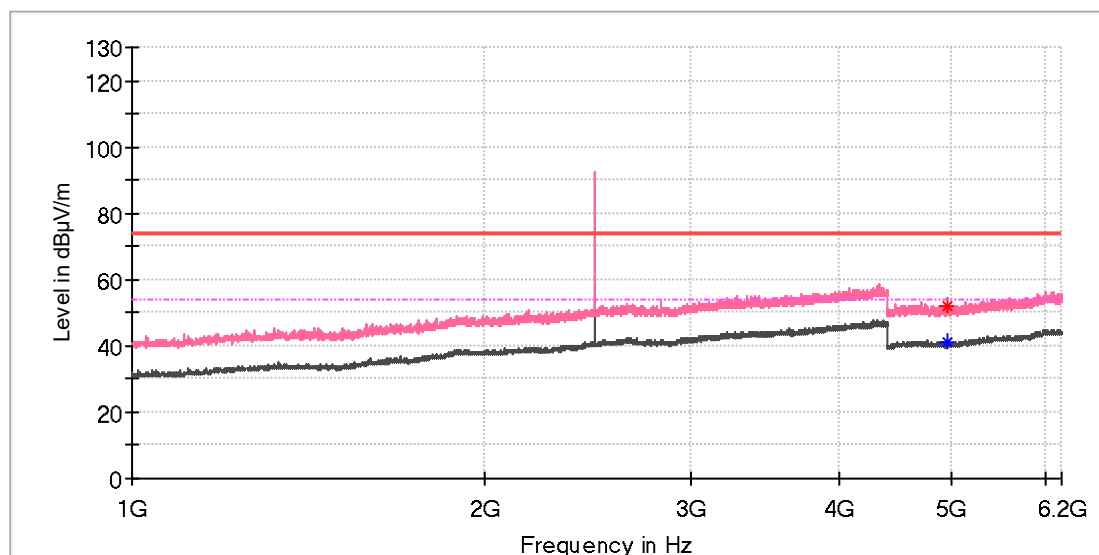
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.000000	52.68	---	74.00	21.32	150.0	H	201.0	13.3
4970.500000	---	40.91	54.00	13.09	150.0	H	176.0	13.3

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
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)
4952.500000	---	41.07	54.00	12.93	150.0	V	188.0	13.3
4961.500000	52.08	---	74.00	21.92	150.0	V	139.0	13.3

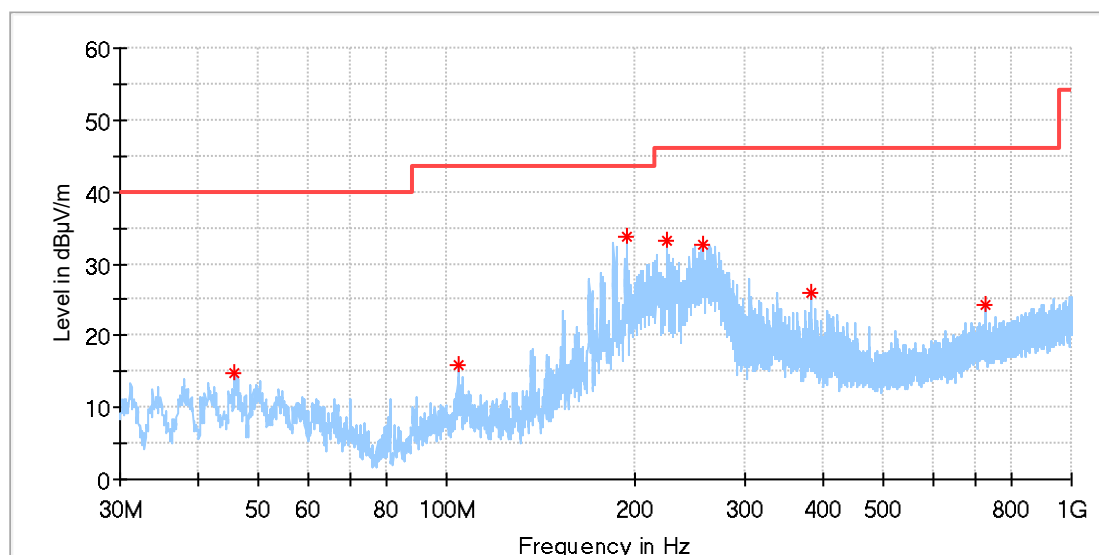
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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30 MHz - 1GHz for co-location

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR_DH5_Mid channel+WIFI 5G_11a_Ch40
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

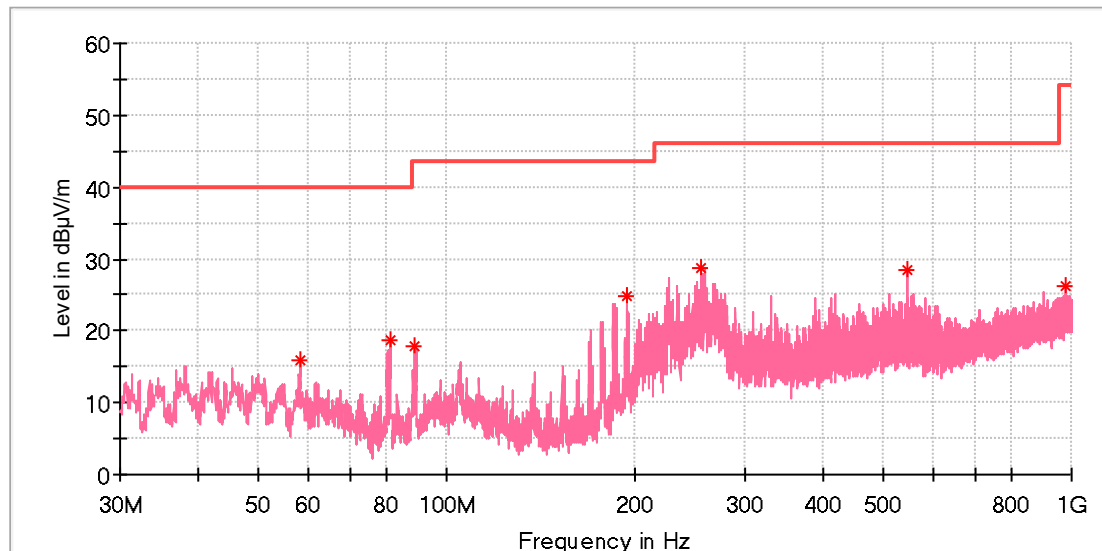
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.681667	14.72	40.00	25.28	100.0	H	197.0	-18.8
104.151111	15.93	43.50	27.57	100.0	H	287.0	-18.9
193.822222	33.80	43.50	9.70	100.0	H	225.0	-19.4
225.455000	33.10	46.00	12.90	100.0	H	250.0	-18.4
257.195556	32.74	46.00	13.26	100.0	H	205.0	-17.2
382.810556	25.92	46.00	20.08	100.0	H	73.0	-14.2
730.016667	24.31	46.00	21.69	100.0	H	234.0	-7.4

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:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR_DH5_Mid channel+WIFI 5G_11a_Ch40
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

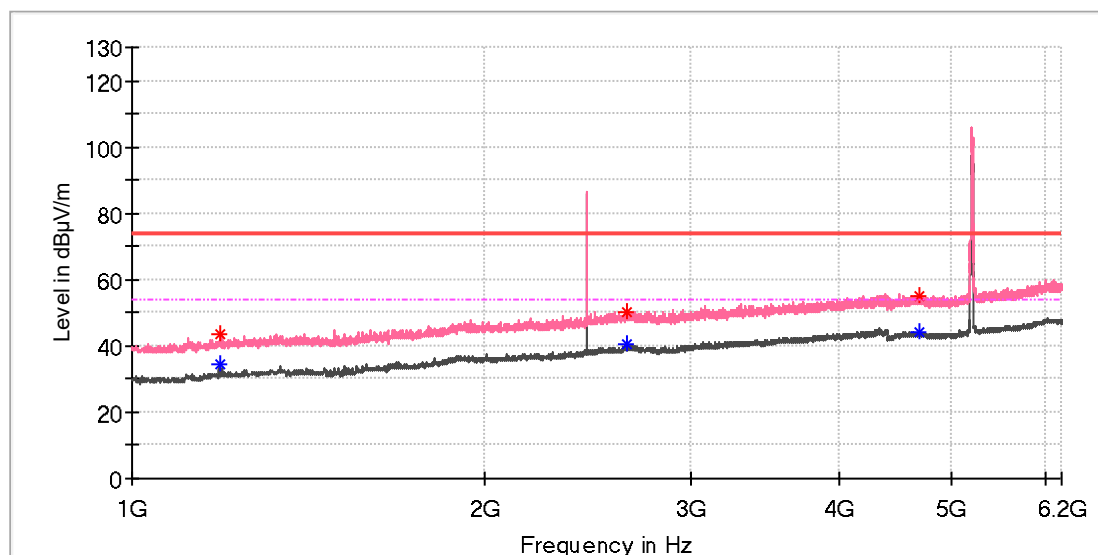
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.291667	15.98	40.00	24.02	100.0	V	247.0	-18.9
81.356111	18.69	40.00	21.31	100.0	V	263.0	-23.3
89.008333	17.88	43.50	25.62	100.0	V	226.0	-21.4
194.307222	24.90	43.50	18.60	100.0	V	218.0	-19.3
255.255556	28.73	46.00	17.27	100.0	V	255.0	-17.2
547.710556	28.57	46.00	17.43	100.0	V	319.0	-10.8
976.827778	26.13	54.00	27.87	100.0	V	175.0	-3.9

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:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR_DH5_Mid channel+WIFI 5G_11a_Ch40
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

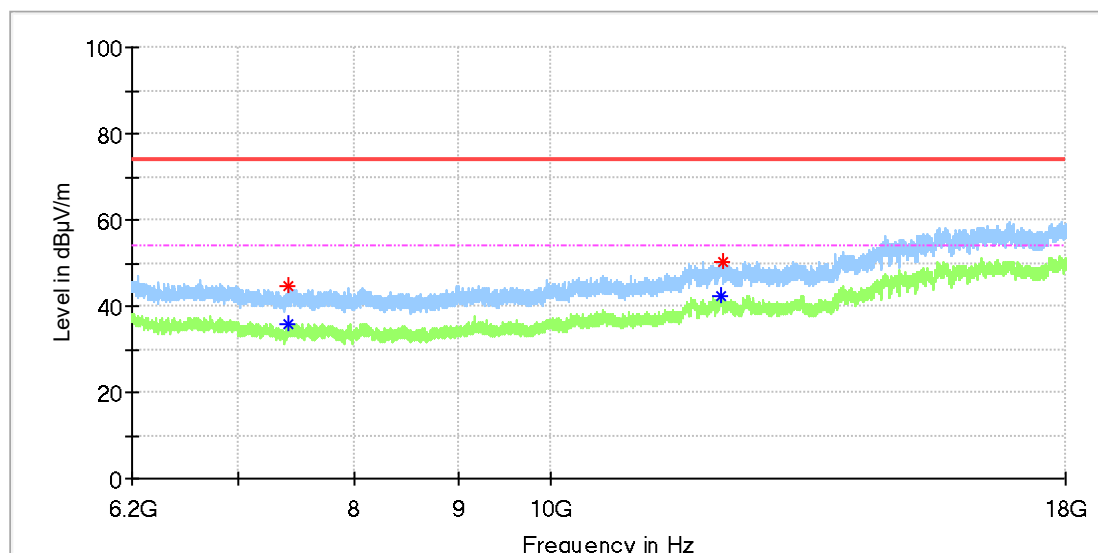
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1187.000000	---	34.36	54.00	19.65	150.0	V	176.0	1.7
1187.500000	43.38	---	74.00	30.62	150.0	V	176.0	1.7
2643.500000	50.19	---	74.00	23.81	150.0	V	356.0	10.1
2645.000000	---	40.25	54.00	13.75	150.0	V	147.0	10.1
4693.000000	---	44.26	54.00	9.74	150.0	V	103.0	13.5
4696.000000	55.24	---	74.00	18.76	150.0	V	291.0	13.5

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR_DH5_Mid channel+WIFI 5G_11a_Ch40
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

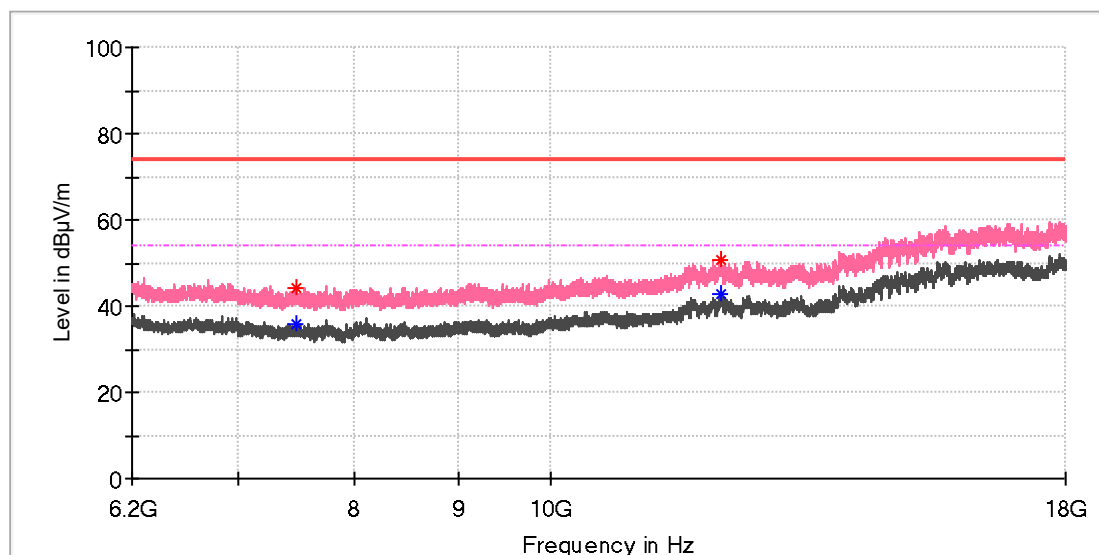
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7403.108333	44.50	---	74.00	29.50	150.0	H	0.0	8.3
7418.350000	---	35.82	54.00	18.18	150.0	H	124.0	8.4
12149.658333	---	42.35	54.00	11.65	150.0	H	135.0	16.7
12162.933333	50.19	---	74.00	23.81	150.0	H	13.0	16.1

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR_DH5_Mid channel+WIFI 5G_11a_Ch40
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
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)	PoI	Azimuth (deg)	Corr. (dB/m)
7485.708333	44.11	---	74.00	29.89	150.0	V	341.0	8.7
7486.691667	---	35.82	54.00	18.18	150.0	V	214.0	8.7
12136.383333	---	42.64	54.00	11.36	150.0	V	202.0	16.4
12139.825000	50.69	---	74.00	23.31	150.0	V	0.0	16.5

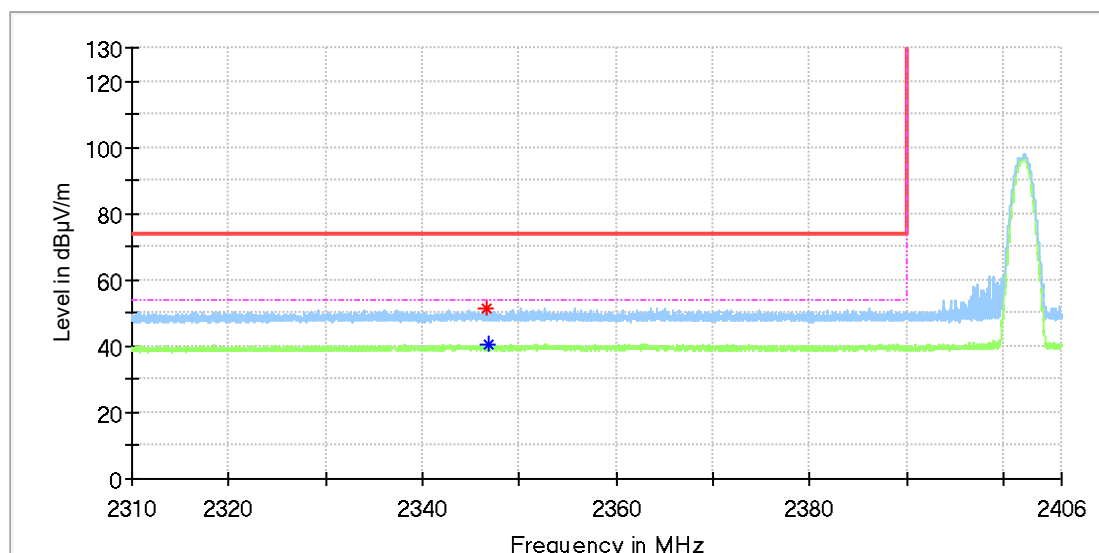
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

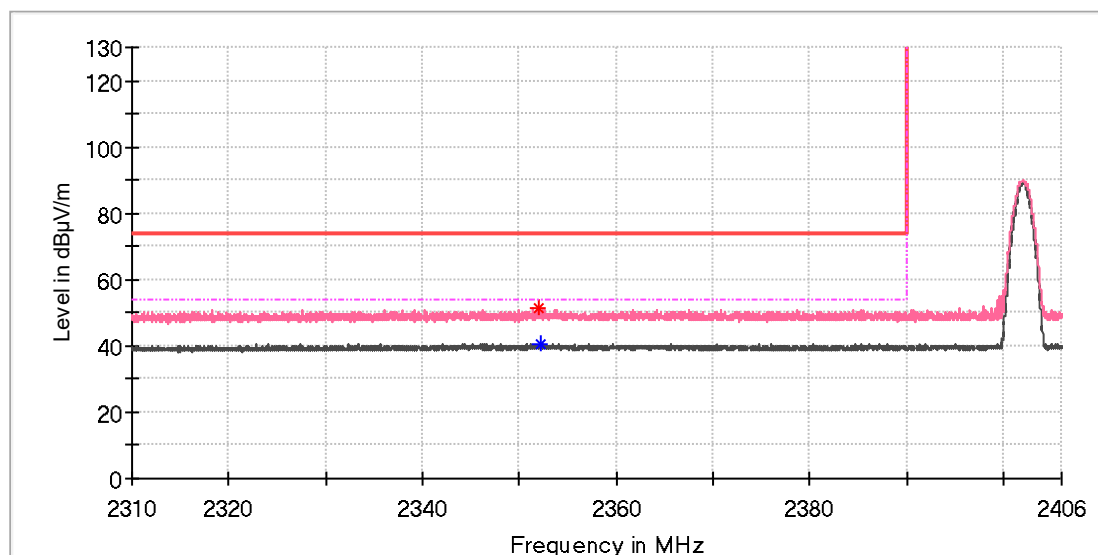
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2346.663530	51.56	---	74.00	22.44	150.0	H	61.0	8.5
2346.861177	---	40.47	54.00	13.53	150.0	H	350.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

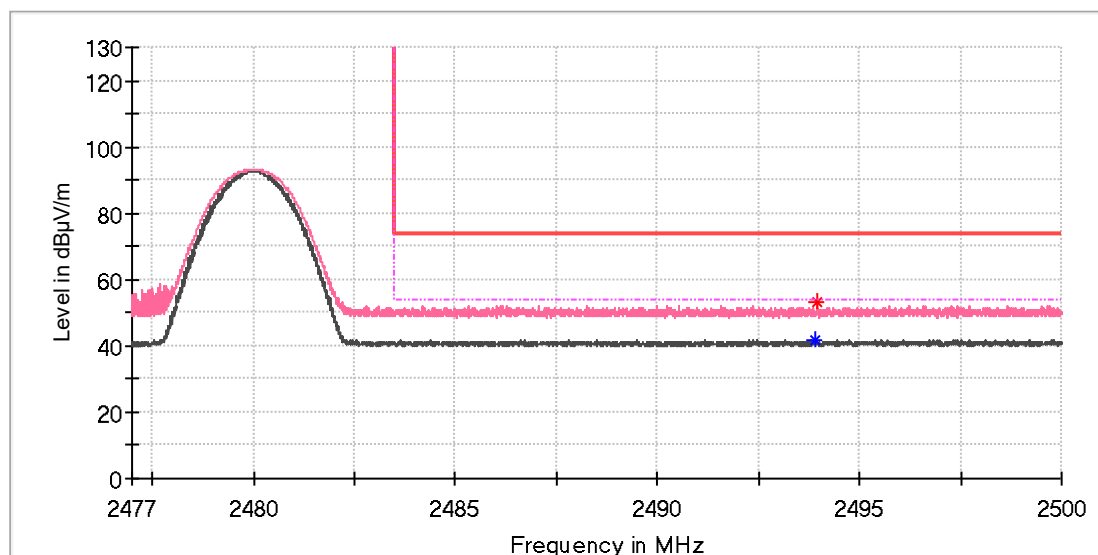
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2351.943530	51.43	---	74.00	22.57	150.0	V	20.0	8.5
2352.211765	---	40.39	54.00	13.61	150.0	V	8.0	8.5

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BR DH5_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
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)
2493.922794	---	41.54	54.00	12.46	150.0	V	77.0	9.0
2493.970588	53.11	---	74.00	20.89	150.0	V	124.0	9.0

Final Result

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