

Appendix B: Test Results

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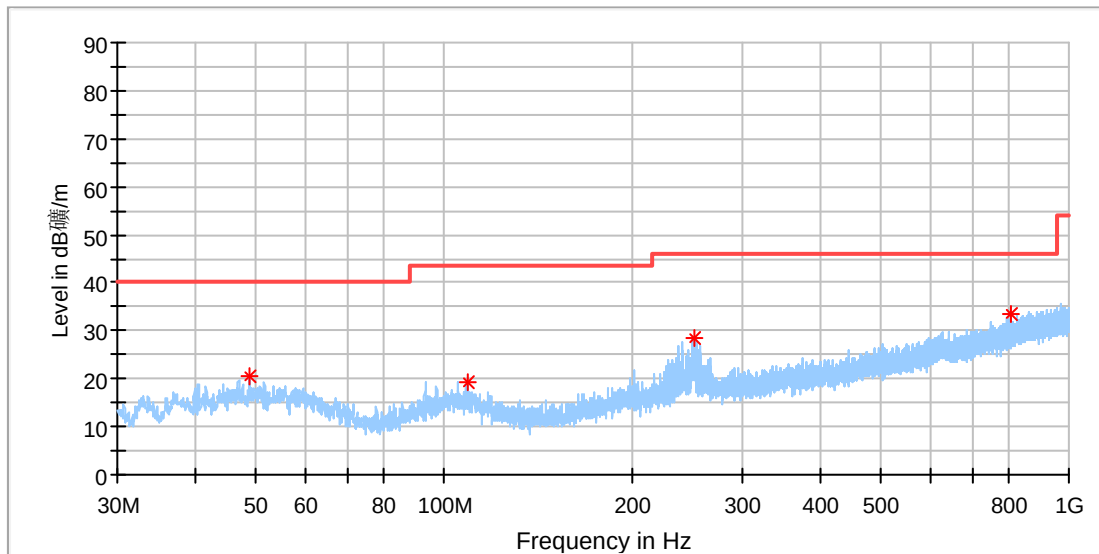
Appendix B.1: Test Results of Field strength of fundamental & harmonics

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

30MHz - 1GHz

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G L CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

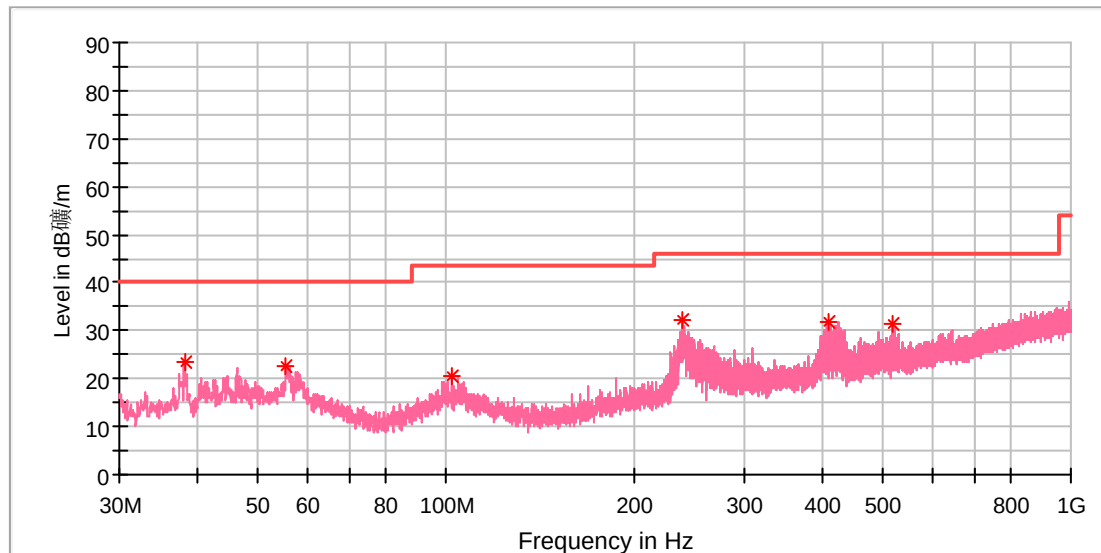


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.769500	20.53	40.00	19.47	100.0	H	348.0	-18.4
108.812500	19.44	43.50	24.06	100.0	H	335.0	-19.0
251.936000	28.54	46.00	17.46	100.0	H	143.0	-17.3
806.824500	33.47	46.00	12.53	100.0	H	255.0	-6.2

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G L CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

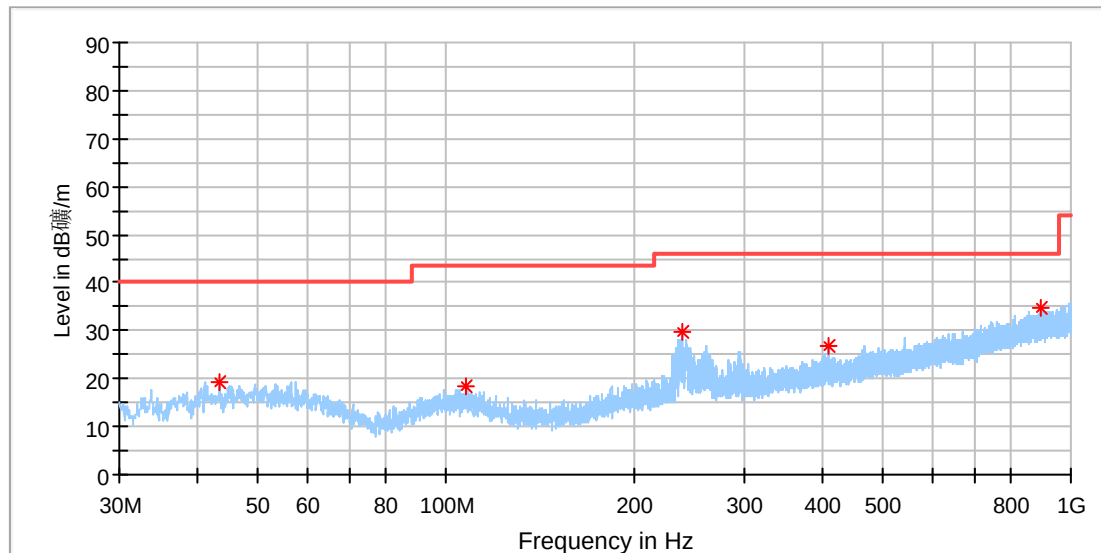


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.148000	23.37	40.00	16.63	100.0	V	280.0	-20.7
55.511000	22.81	40.00	17.19	100.0	V	337.0	-18.5
102.119500	20.57	43.50	22.93	100.0	V	168.0	-18.9
238.210500	32.29	46.00	13.71	100.0	V	168.0	-17.8
408.348500	31.73	46.00	14.27	100.0	V	168.0	-13.5
519.462000	31.34	46.00	14.66	100.0	V	168.0	-11.5

EUT Information

EUT Name:	Wireless Receiver
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Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

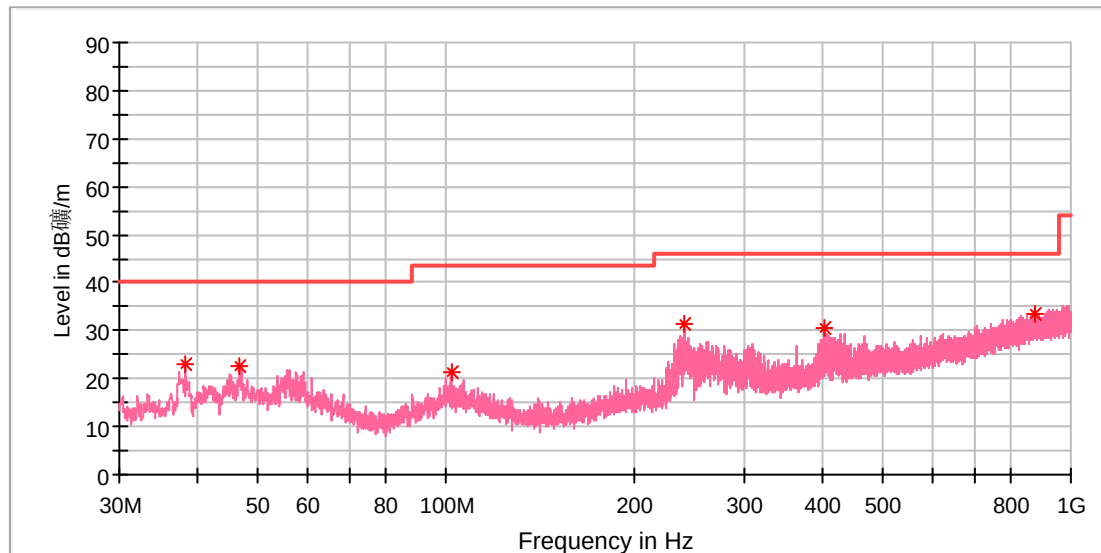


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.337500	19.17	40.00	20.83	100.0	H	35.0	-19.2
107.939500	18.47	43.50	25.03	100.0	H	227.0	-18.9
238.356000	29.90	46.00	16.10	100.0	H	168.0	-17.8
409.221500	26.76	46.00	19.24	100.0	H	311.0	-13.5
893.979000	34.70	46.00	11.30	100.0	H	49.0	-5.0

EUT Information

EUT Name:	Wireless Receiver
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Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

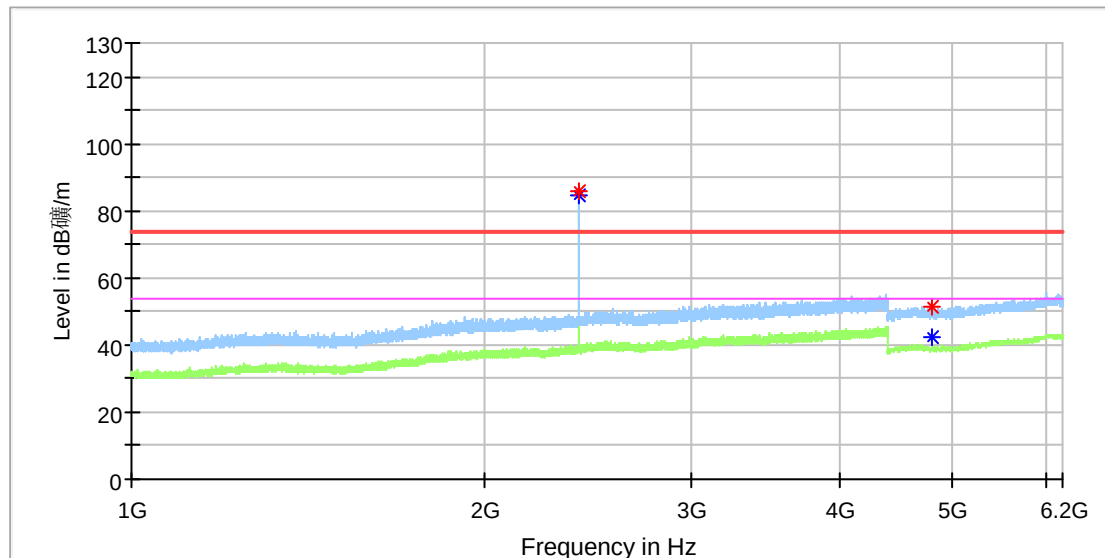
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.342000	22.99	40.00	17.01	100.0	V	92.0	-20.7
46.878000	22.78	40.00	17.22	100.0	V	208.0	-18.5
101.828500	21.30	43.50	22.20	100.0	V	146.0	-18.9
240.247500	31.28	46.00	14.72	100.0	V	146.0	-17.7
404.129000	30.69	46.00	15.31	100.0	V	0.0	-13.6
874.918500	33.69	46.00	12.31	100.0	V	181.0	-5.2

1GHz - 18GHz

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

EUT Information

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Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

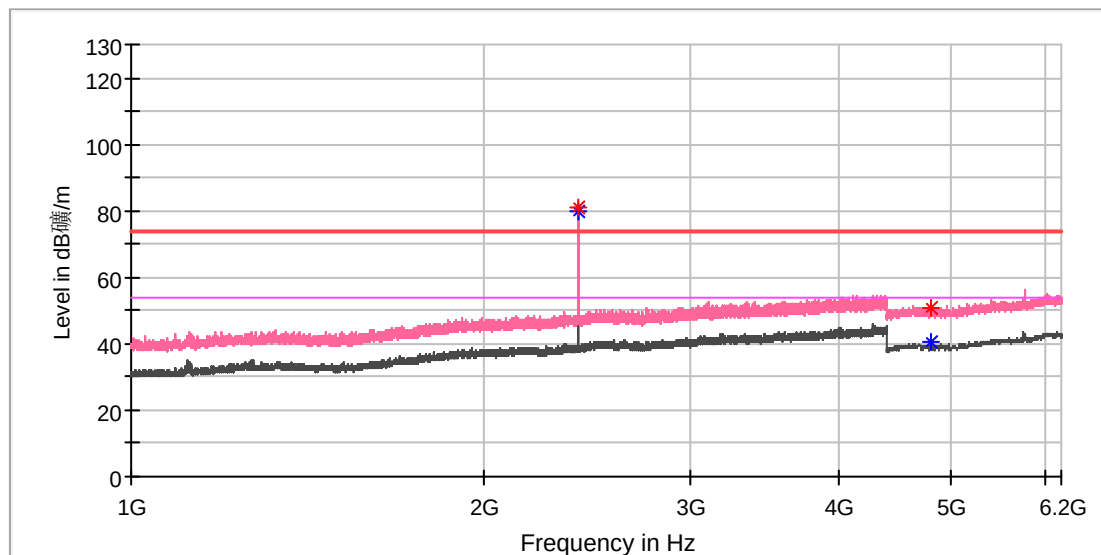


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.480000	86.07	---	114.00	27.93	100.0	H	149.0	7.0
2401.990000	---	84.63	94.00	9.37	100.0	H	149.0	7.0
4803.000000	51.66	---	74.00	22.34	100.0	H	49.0	11.8
4803.000000	---	42.46	54.00	11.54	100.0	H	49.0	11.8

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G L CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

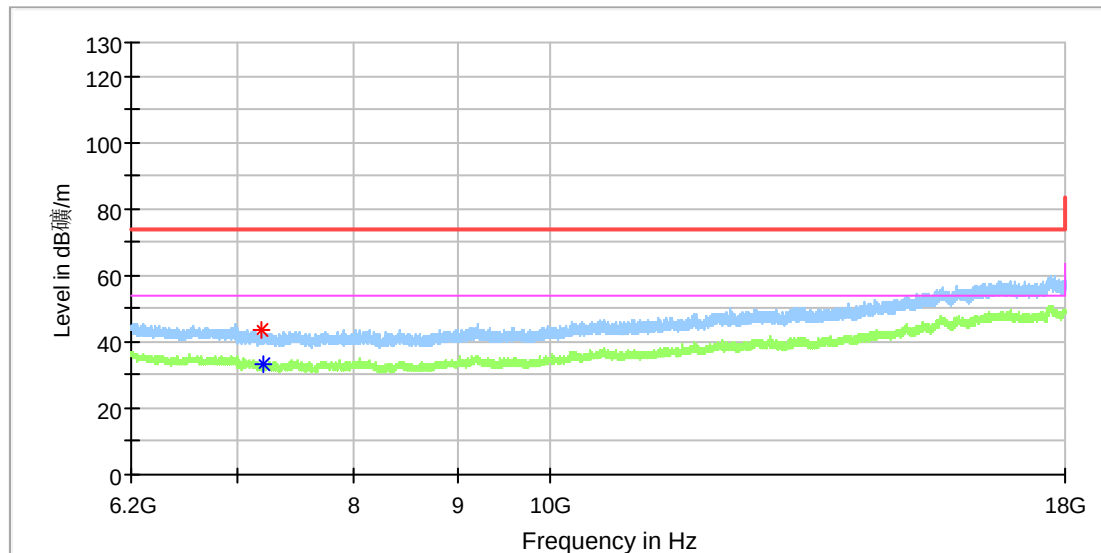


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.480000	81.17	---	114.00	32.83	100.0	V	250.0	7.0
2401.820000	---	79.80	94.00	14.20	100.0	V	250.0	7.0
4802.500000	50.64	---	74.00	23.36	100.0	V	322.0	11.8
4803.000000	---	40.40	54.00	13.60	100.0	V	259.0	11.8

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G L CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

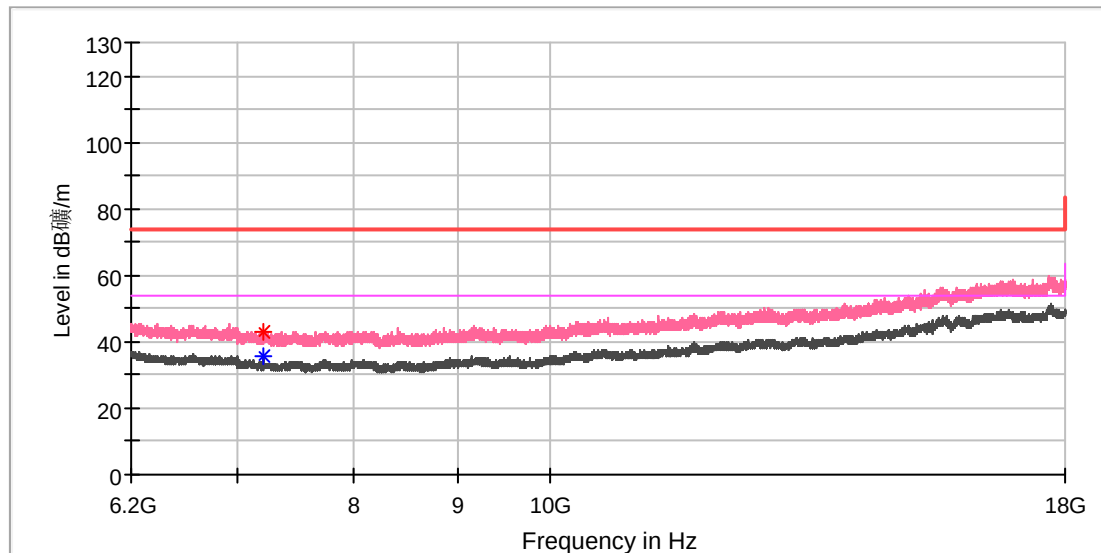


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7199.558333	43.24	---	74.00	30.76	100.0	H	24.0	8.8
7215.783333	---	33.52	54.00	20.48	100.0	H	173.0	8.7

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G L CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

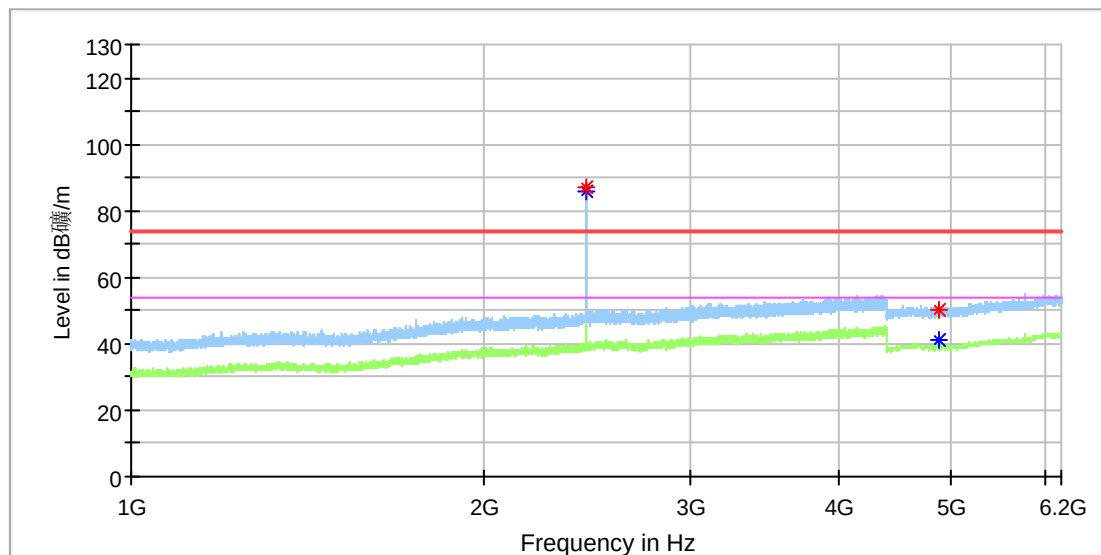


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	42.94	---	74.00	31.06	100.0	V	291.0	8.8
7204.475000	---	35.85	54.00	18.15	100.0	V	291.0	8.8

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G M CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

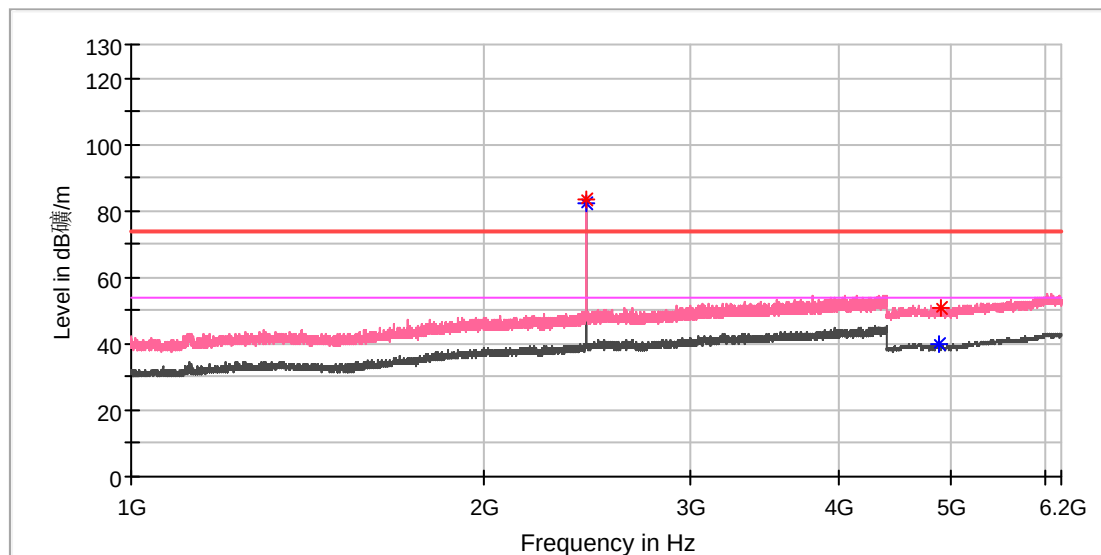


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2439.390000	87.16	---	114.00	26.84	100.0	H	148.0	7.4
2439.900000	---	85.70	94.00	8.30	100.0	H	314.0	7.4
4879.000000	---	40.99	54.00	13.01	100.0	H	56.0	11.8
4880.500000	50.15	---	74.00	23.85	100.0	H	42.0	11.8

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G M CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

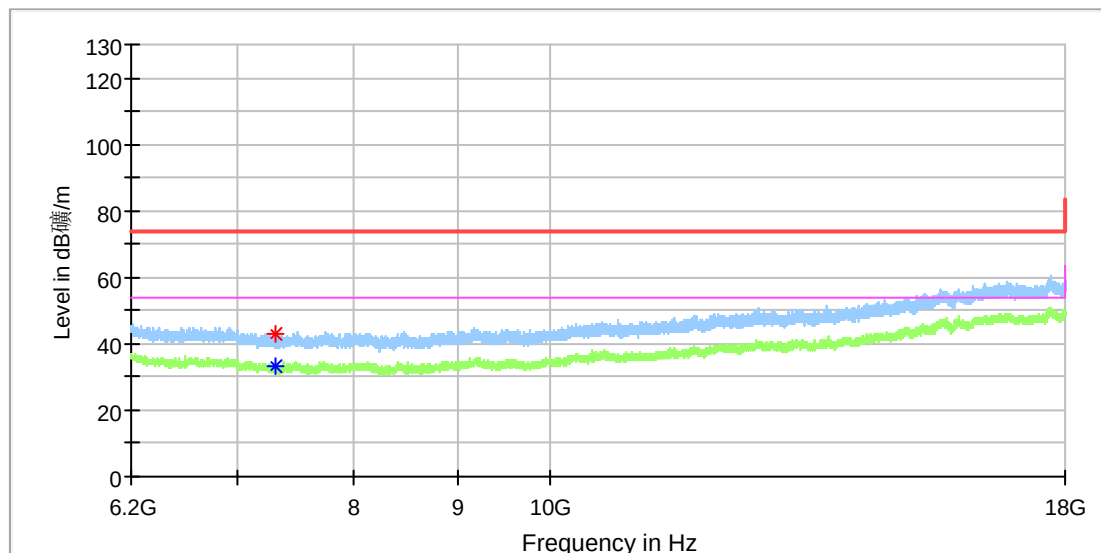


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2439.560000	---	82.11	94.00	11.89	100.0	V	251.0	7.4
2440.580000	83.36	---	114.00	30.64	100.0	V	251.0	7.4
4879.000000	---	39.71	54.00	14.29	100.0	V	165.0	11.8
4888.000000	50.99	---	74.00	23.01	100.0	V	36.0	11.8

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G M CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

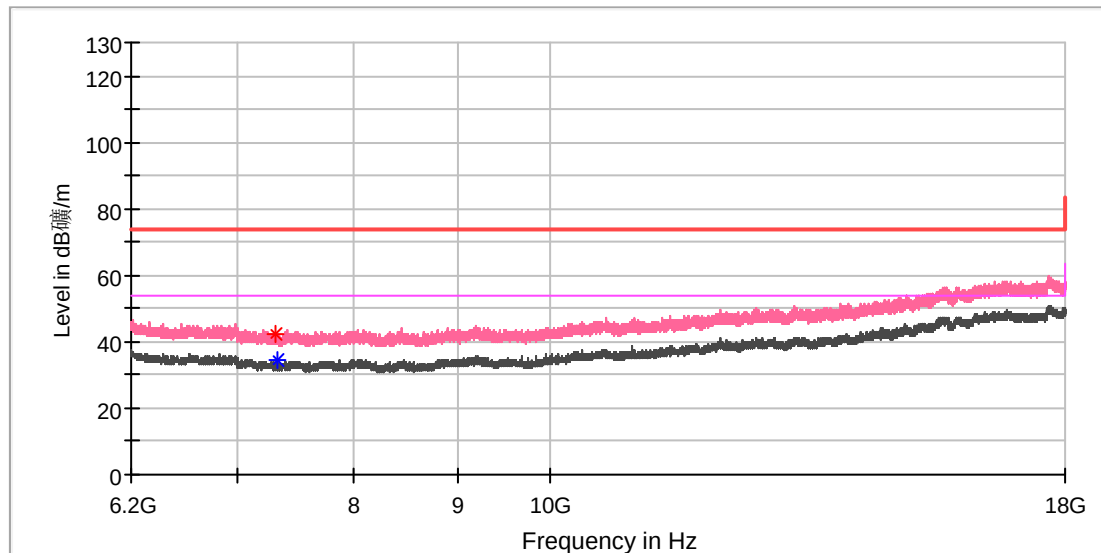


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7315.591667	---	33.42	54.00	20.58	100.0	H	188.0	8.2
7318.050000	42.67	---	74.00	31.33	100.0	H	358.0	8.2

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G M CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

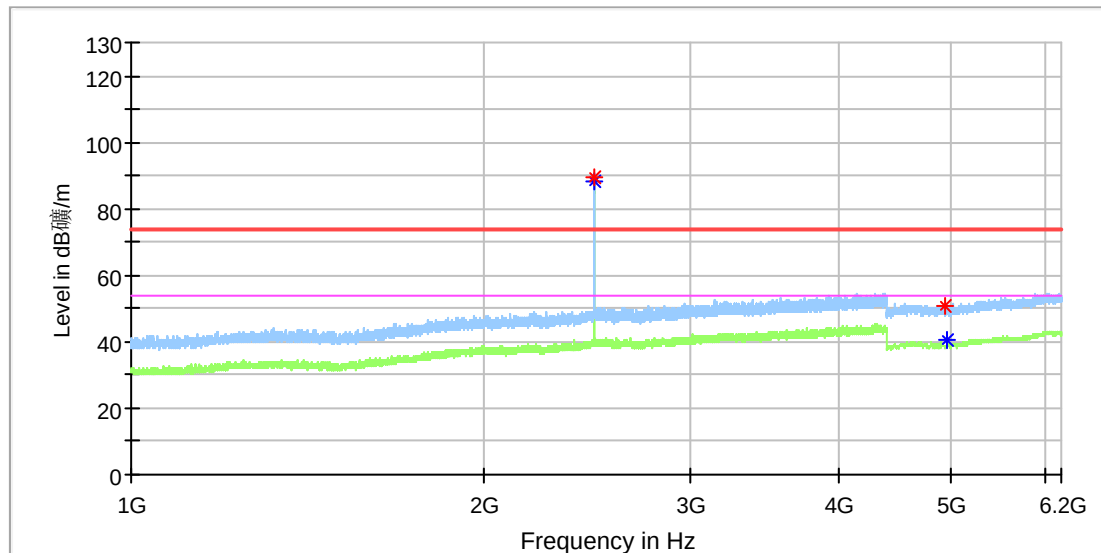


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.658333	42.28	---	74.00	31.72	100.0	V	132.0	8.2
7321.491667	---	34.56	54.00	19.44	100.0	V	32.0	8.2

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G H CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

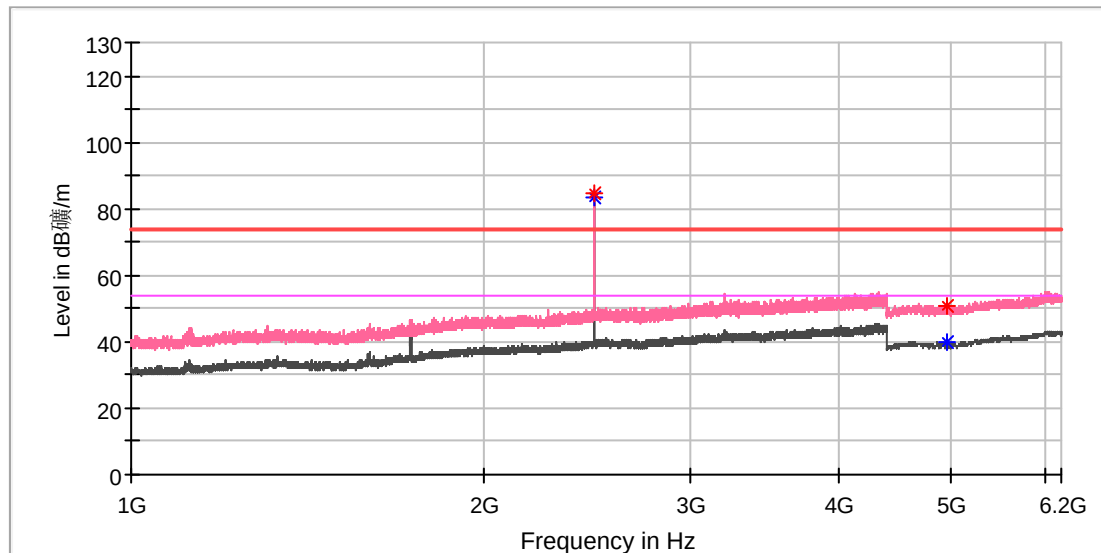


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.850000	---	87.98	94.00	6.02	100.0	H	160.0	7.4
2480.530000	89.19	---	114.00	24.81	100.0	H	160.0	7.4
4939.000000	50.73	---	74.00	23.27	100.0	H	179.0	11.8
4959.000000	---	40.79	54.00	13.21	100.0	H	46.0	11.8

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G H CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

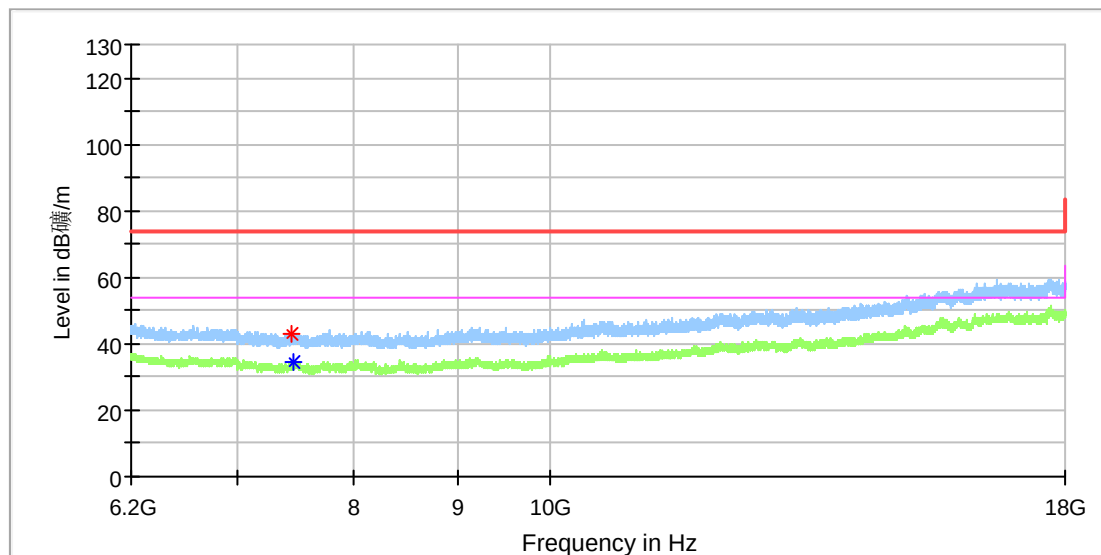


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.340000	84.36	---	114.00	29.64	100.0	V	252.0	7.4
2479.680000	---	83.16	94.00	10.84	100.0	V	252.0	7.4
4946.000000	50.67	---	74.00	23.33	100.0	V	17.0	11.8
4958.500000	---	39.73	54.00	14.27	100.0	V	339.0	11.8

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G H CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

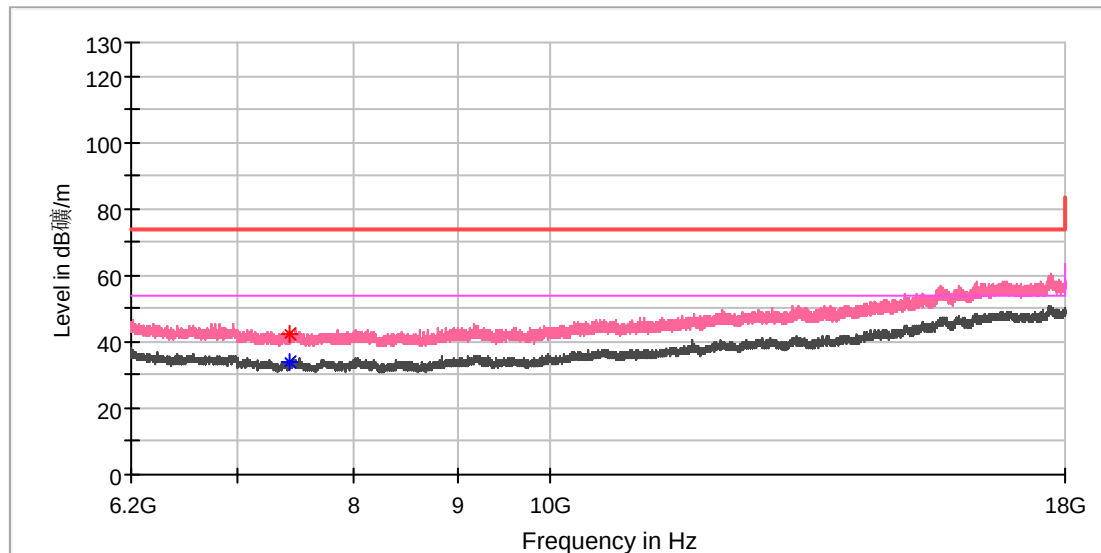


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7444.408333	42.92	---	74.00	31.08	100.0	H	92.0	8.5
7453.750000	---	34.49	54.00	19.51	100.0	H	163.0	8.5

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G H CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

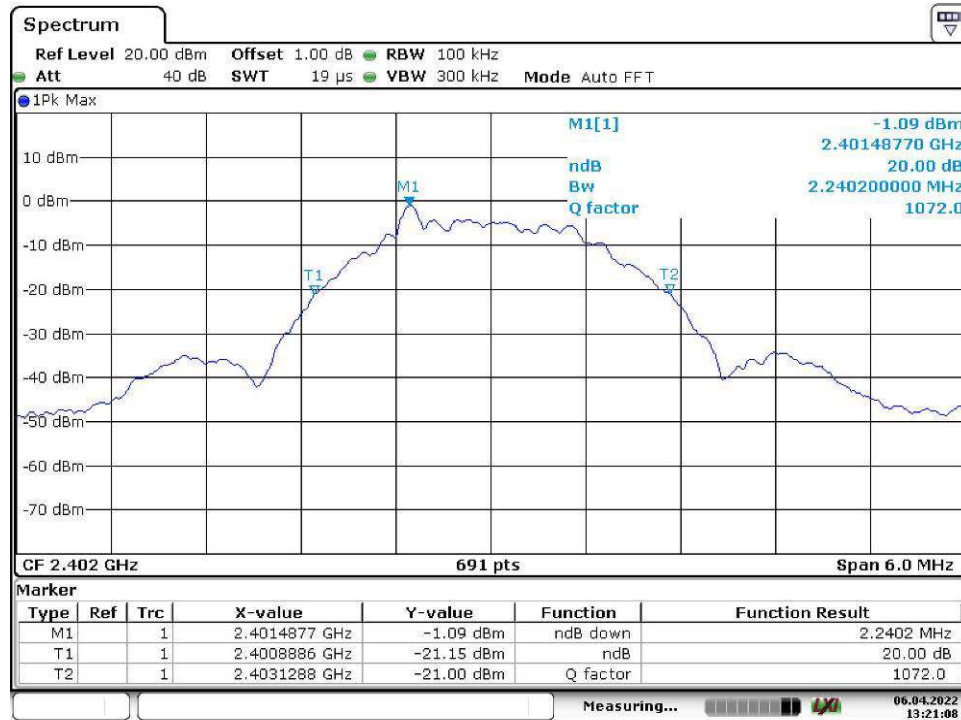


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7432.608333	---	33.97	54.00	20.03	100.0	V	240.0	8.4
7433.100000	42.54	---	74.00	31.46	100.0	V	47.0	8.4

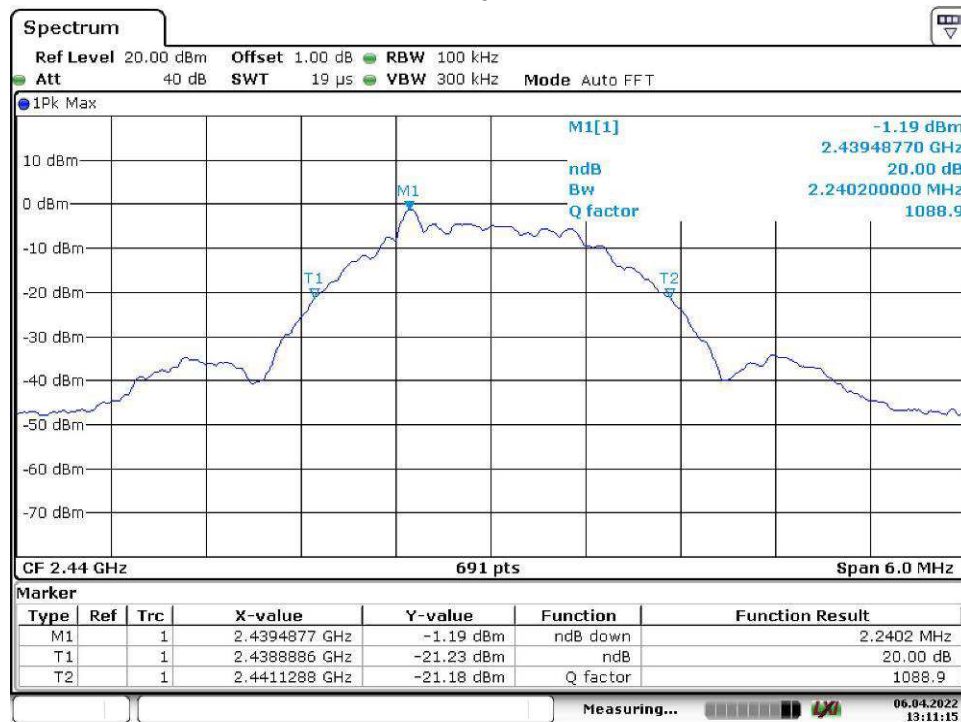
Appendix B.2: Test Results of 20dB Bandwidth

2402MHz



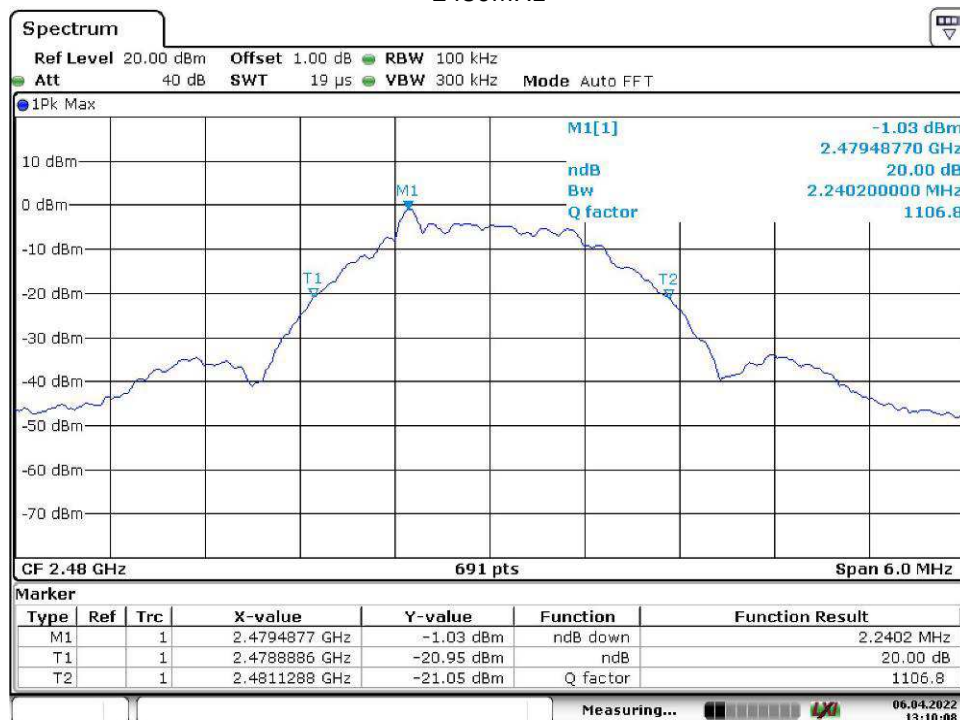
Date: 6.APR.2022 13:21:09

2440MHz



Date: 6.APR.2022 13:11:15

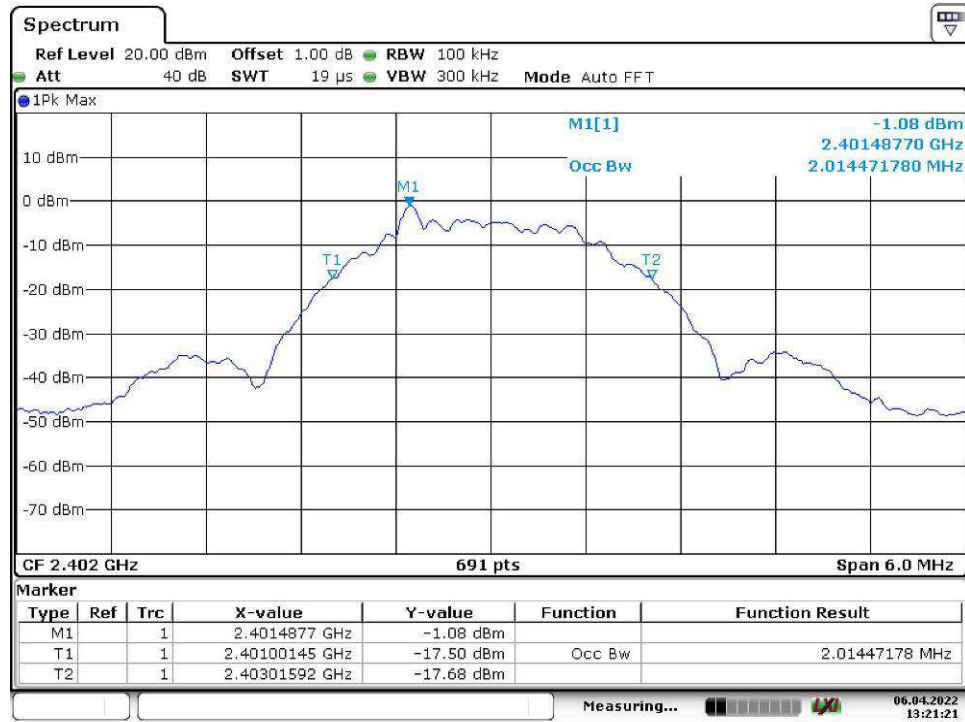
2480MHz



Date: 06.APR.2022 13:10:08

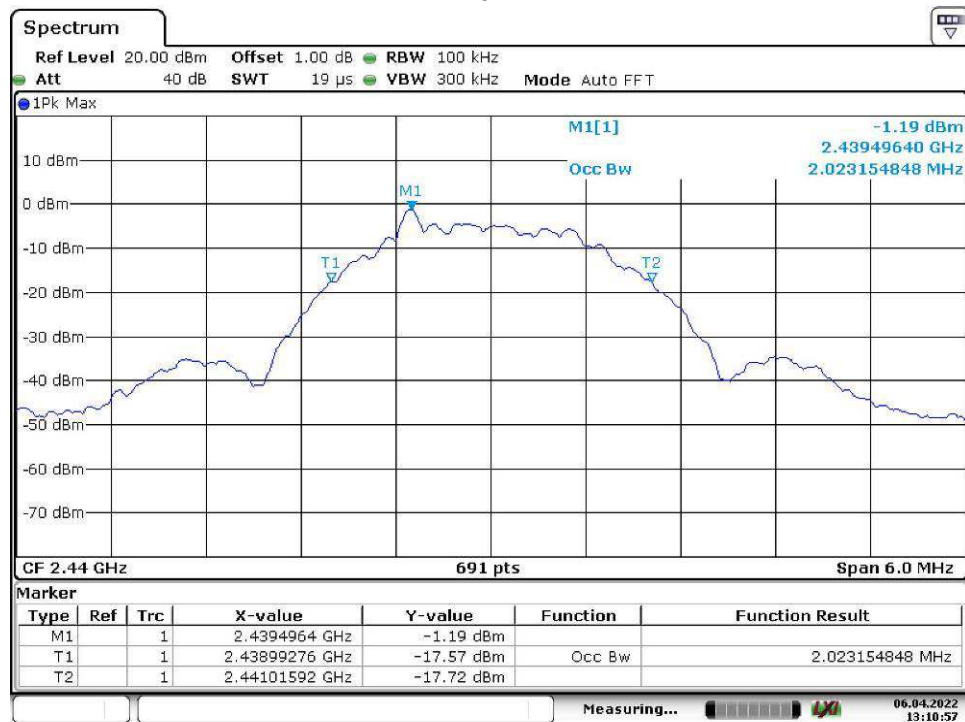
Appendix B.3: Test Results of 99% Bandwidth

2402MHz



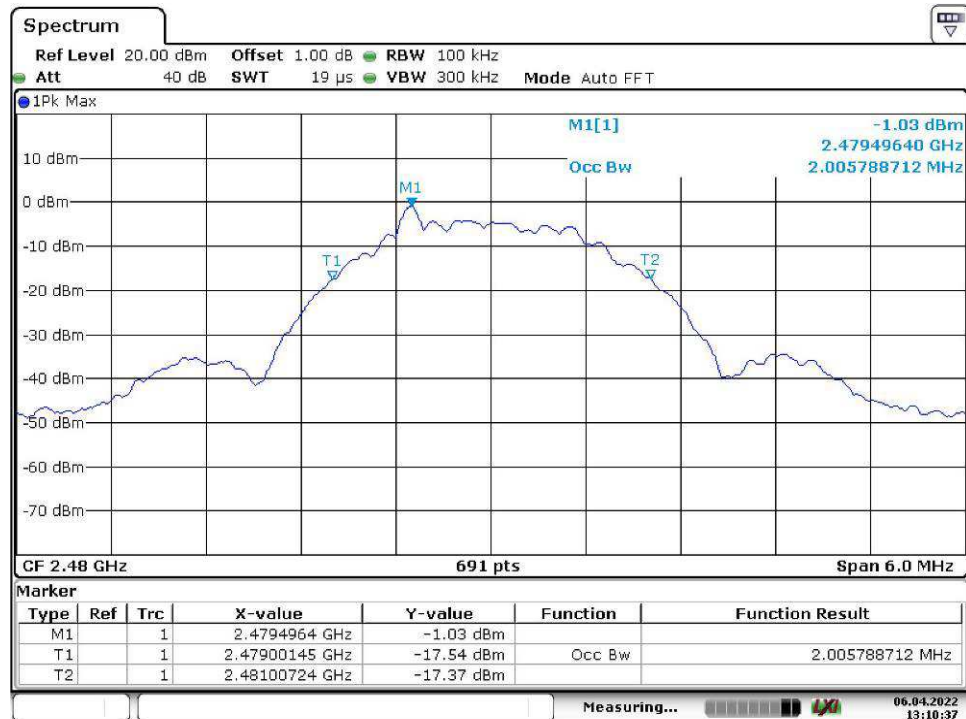
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2440MHz



Date: 6.APR.2022 13:10:57

2480MHz

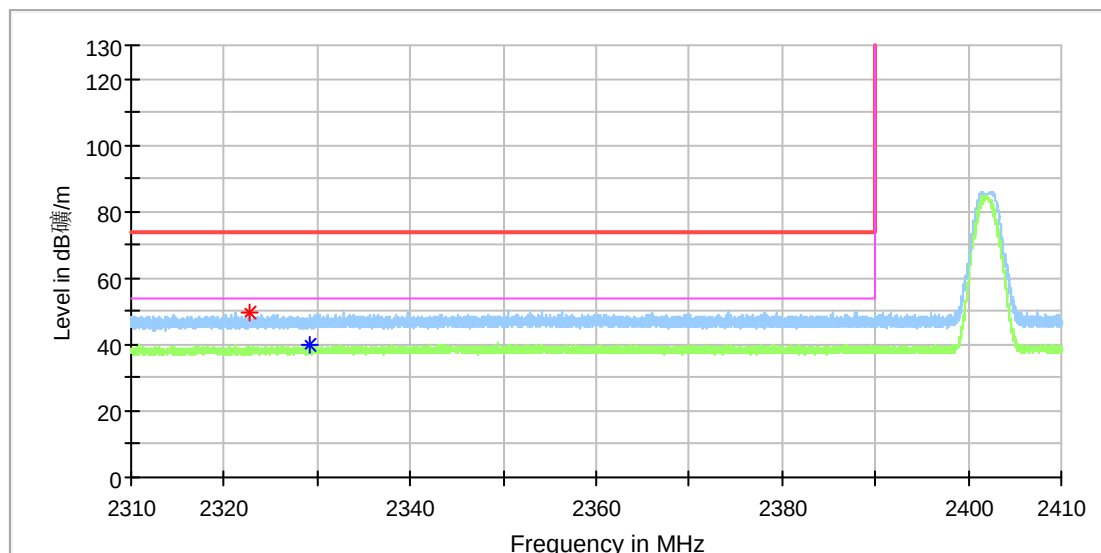


Date: 06.APR.2022 13:10:38

Appendix B.4: Test Results of Band Edge

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G L CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

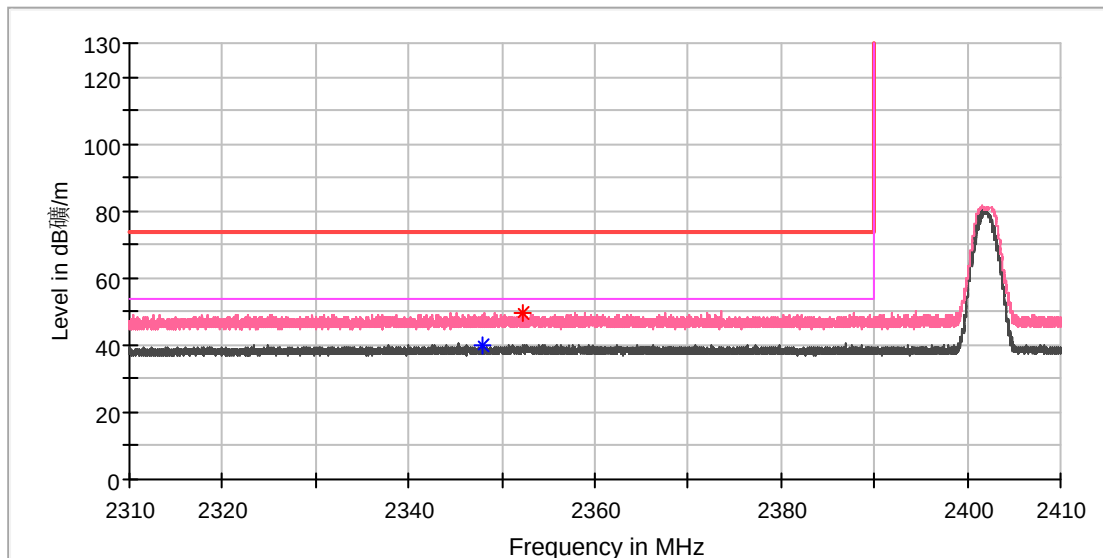


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2322.790000	49.28	---	74.00	24.72	100.0	H	155.0	6.6
2329.080000	---	40.14	54.00	13.86	100.0	H	168.0	6.7

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G L CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

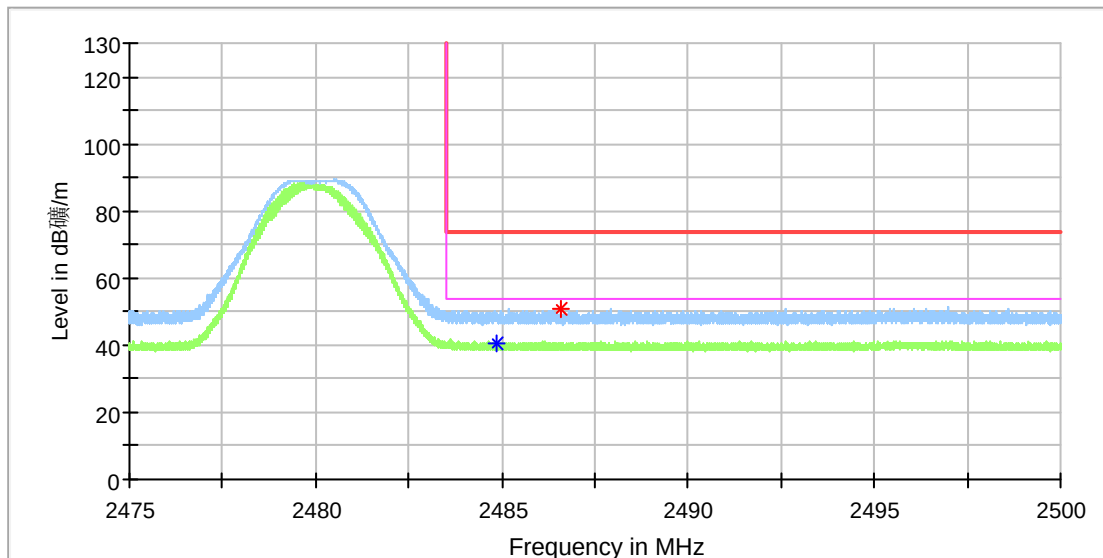


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2347.995000	---	39.74	54.00	14.26	100.0	V	249.0	6.9
2352.255000	49.76	---	74.00	24.24	100.0	V	102.0	6.9

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G H CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

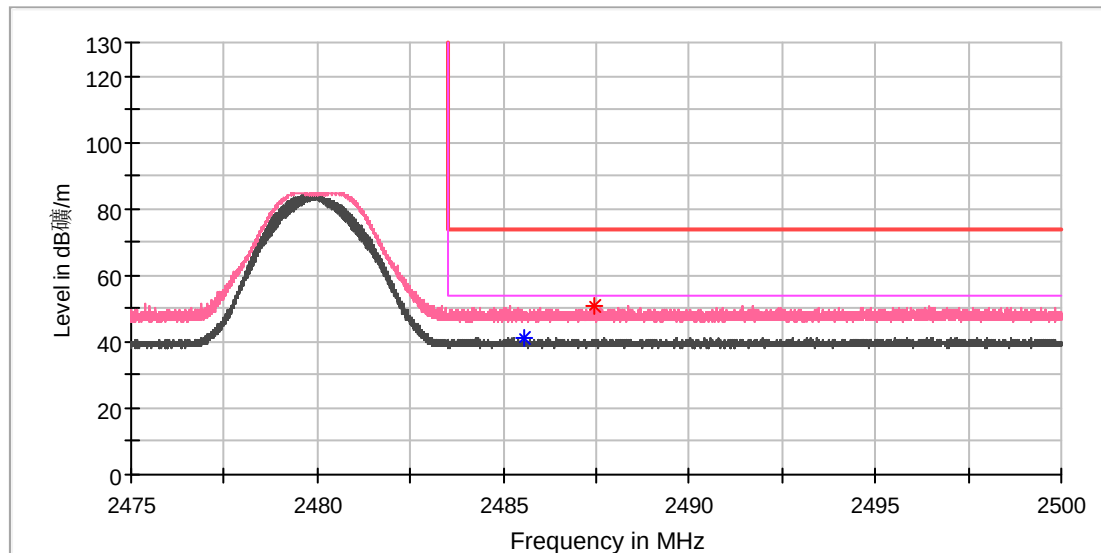


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.870000	---	40.74	54.00	13.26	100.0	H	181.0	7.4
2486.581250	50.58	---	74.00	23.42	100.0	H	129.0	7.4

EUT Information

EUT Name:	Wireless Receiver
Model:	RG97
Test Mode:	2.4G H CH
Order No/Sample No:	168363715/A003223013-009
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



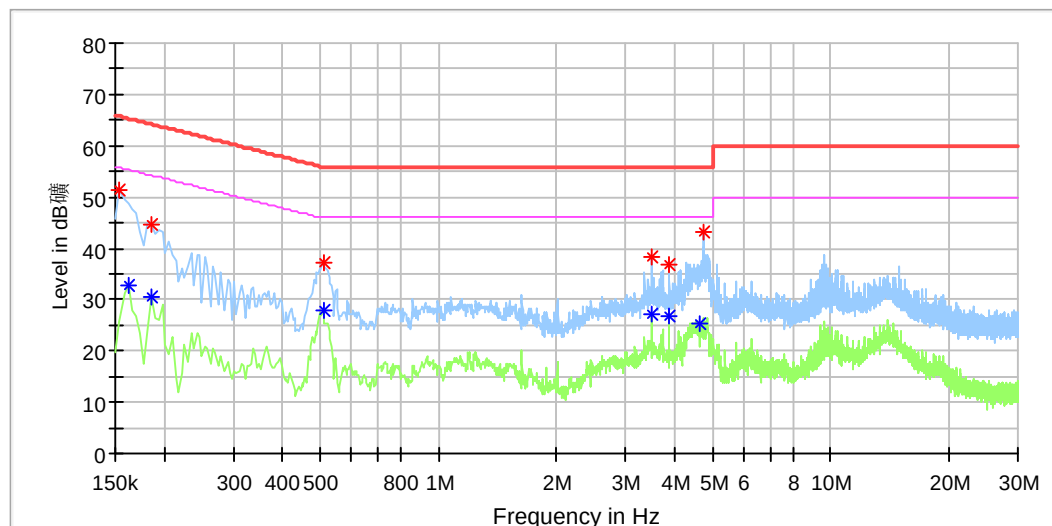
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.536250	---	41.25	54.00	12.75	100.0	V	326.0	7.4
2487.442500	50.76	---	74.00	23.24	100.0	V	0.0	7.4

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

EUT Information

EUT Name:	Wireless Receiver
Order No:	168363715
Model:	RG97
Test mode:	On (2.4GHz)
Test Voltage:	AC 120V/60Hz
Test By:	Steve Lan
Review By:	Gary Chen
Tem./Hum./Pressure:	23.9°C/53%/101kPa

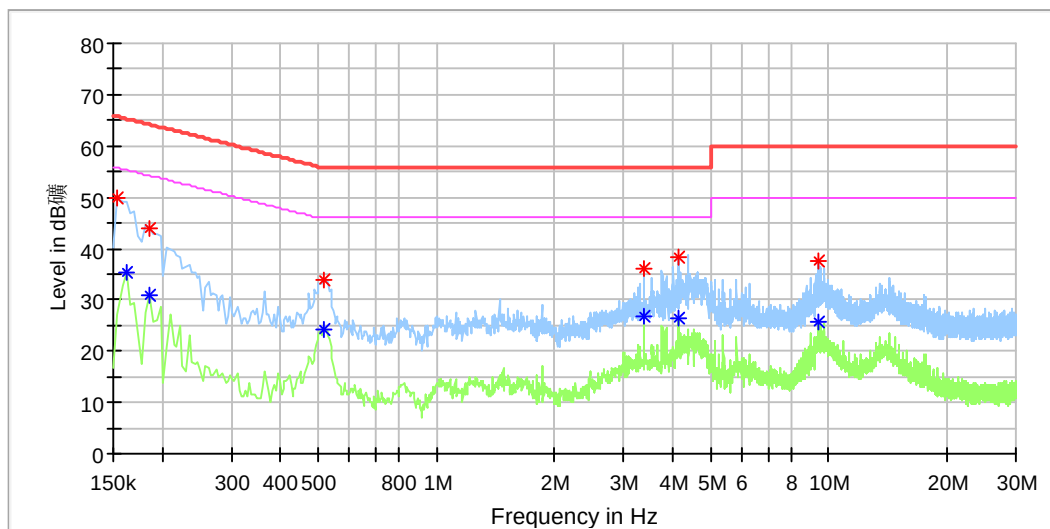


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	51.44	---	65.78	14.34	L1	9.9
0.162000	---	32.83	55.36	22.53	L1	9.9
0.186000	44.83	---	64.21	19.39	L1	9.9
0.186000	---	30.54	54.21	23.68	L1	9.9
0.510000	---	27.88	46.00	18.12	L1	10.0
0.510000	37.10	---	56.00	18.90	L1	10.0
3.506000	38.14	---	56.00	17.86	L1	10.2
3.510000	---	27.24	46.00	18.76	L1	10.2
3.882000	36.93	---	56.00	19.07	L1	10.2
3.882000	---	26.96	46.00	19.04	L1	10.2
4.622000	---	25.17	46.00	20.83	L1	10.2
4.722000	43.01	---	56.00	12.99	L1	10.2

EUT Information

EUT Name: Wireless Receiver
Order No: 168363715
Model: RG97
Test mode: On (2.4GHz)
Test Voltage: AC 120V/60Hz
Test By: Steve Lan
Review By: Gary Chen
Tem./Hum./Pressure: 23.9°C/53%/101kPa



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	49.91	---	65.78	15.88	N	9.8
0.162000	---	35.28	55.36	20.08	N	9.8
0.186000	44.09	---	64.21	20.12	N	9.8
0.186000	---	30.80	54.21	23.41	N	9.8
0.518000	33.94	---	56.00	22.06	N	9.8
0.518000	---	24.13	46.00	21.87	N	9.8
3.390000	35.94	---	56.00	20.06	N	9.9
3.390000	---	26.85	46.00	19.15	N	9.9
4.138000	---	26.33	46.00	19.67	N	9.9
4.138000	38.37	---	56.00	17.63	N	9.9
9.386000	---	25.78	50.00	24.22	N	10.0
9.386000	37.41	---	60.00	22.59	N	10.0