

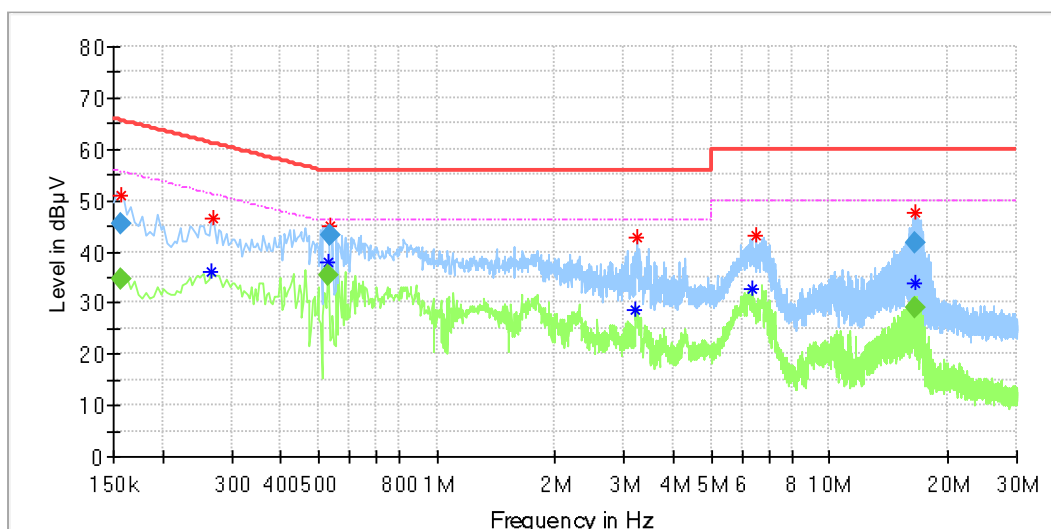
## **Appendix B: Test Results of FCC 15B**

<b>APPENDIX B: TEST RESULTS OF FCC 15B .....</b>	<b>1</b>
<b>APPENDIX B.1: TEST PLOTS OF CONDUCTED EMISSION ON AC MAINS .....</b>	<b>2</b>
<b>APPENDIX B.2: TEST PLOTS OF RADIATED EMISSION, BELOW 1GHZ .....</b>	<b>4</b>
<b>APPENDIX B.3: TEST PLOTS OF RADIATED EMISSION, ABOVE 1GHZ .....</b>	<b>6</b>

## Appendix B.1: Test Plots of Conducted Emission on AC Mains

### EUT Information

EUT Name:	USB Dongle
Order Number:	168390083
Model:	RG51
Test Mode:	ON
Test Voltage:	AC 120V, 60Hz
Test By:/Review By:	Ouyang Wang/Gary Chen
Test Standard:	FCC PORT 15
Tem./Hum./Pressure:	25.0°C/50.2%/101kPa
Remark:	SR2



### Critical Freqs

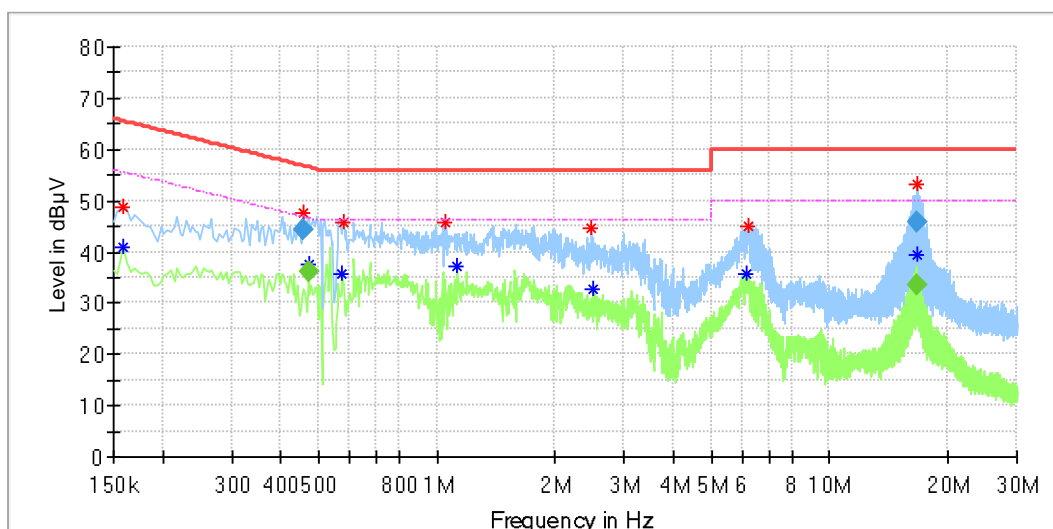
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157500	51.08	---	65.57	14.49	L1	9.9
0.157500	---	34.83	55.36	20.53	L1	9.9
0.266000	---	36.20	51.24	15.04	L1	9.9
0.270000	46.36	---	61.12	14.76	L1	9.9
0.529500	---	37.86	46.00	8.14	L1	10.0
0.534500	45.07	---	56.00	10.93	L1	10.0
3.214000	---	28.78	46.00	17.22	L1	10.2
3.242000	42.62	---	56.00	13.38	L1	10.2
6.326000	---	32.88	50.00	17.12	L1	10.3
6.470000	43.13	---	60.00	16.87	L1	10.3
16.558500	---	33.77	50.00	16.23	L1	10.4
16.589500	47.57	---	60.00	12.43	L1	10.4

### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.157500	45.48	---	65.60	20.11	1000.0	9.000	L1	9.9
0.157500	---	34.72	55.60	20.87	1000.0	9.000	L1	9.9
0.529500	---	35.20	46.00	10.80	1000.0	9.000	L1	10.0
0.534500	43.08	---	56.00	12.92	1000.0	9.000	L1	10.0
16.558500	---	28.87	50.00	21.13	1000.0	9.000	L1	10.4
16.589500	41.68	---	60.00	18.32	1000.0	9.000	L1	10.4

## EUT Information

EUT Name: USB Dongle  
 Order Number: 168390083  
 Model: RG51  
 Test Mode: ON  
 Test Voltage: AC 120V, 60Hz  
 Test By./Review By: Ouyang Wang/Gary Chen  
 Test Standard: FCC PORT 15  
 Tem./Hum./Pressure: 25.0°C/50.2%/101kPa  
 Remark: SR2



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	48.76	---	65.57	16.81	N	9.8
0.158000	---	41.01	55.57	14.56	N	9.8
0.457500	47.73	---	56.73	9.00	N	9.8
0.473500	---	37.57	46.51	8.94	N	9.8
0.574000	---	35.59	46.00	10.41	N	9.8
0.578000	45.65	---	56.00	10.35	N	9.8
1.054000	45.65	---	56.00	10.35	N	9.8
1.126000	---	37.17	46.00	8.83	N	9.8
2.482000	44.49	---	56.00	11.51	N	9.9
2.506000	---	32.69	46.00	13.31	N	9.9
6.134000	---	35.86	50.00	14.14	N	9.9
6.222000	44.97	---	60.00	15.03	N	9.9
16.685500	53.06	---	60.00	6.94	N	10.2
16.693500	---	39.60	50.00	10.40	N	10.2

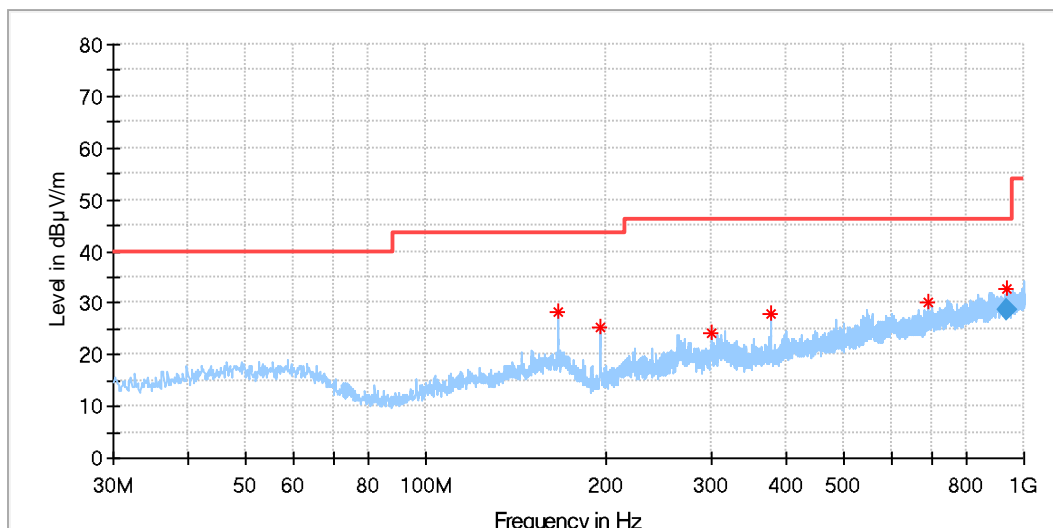
## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.457500	44.31	---	56.74	12.43	1000.0	9.000	N	9.8
0.473500	---	36.15	46.45	10.31	1000.0	9.000	N	9.8
16.685500	45.70	---	60.00	14.30	1000.0	9.000	N	10.2
16.693500	---	33.43	50.00	16.57	1000.0	9.000	N	10.2

## Appendix B.2: Test Plots of Radiated Emission, Below 1GHz

### EUT Information

EUT Name: USB Dongle  
 Order No: 168390083  
 Model: RG51  
 Test Mode: ON  
 Test Voltage: AC 120V, 60Hz  
 Standard: FCC Part 15  
 Test By./Review By: Ouyang Wang/Gary Chen  
 Tem./Hum./Pressure: 24.7°C/49.6%/101kPa  
 Remark: 3m chamber



### Critical Freqs

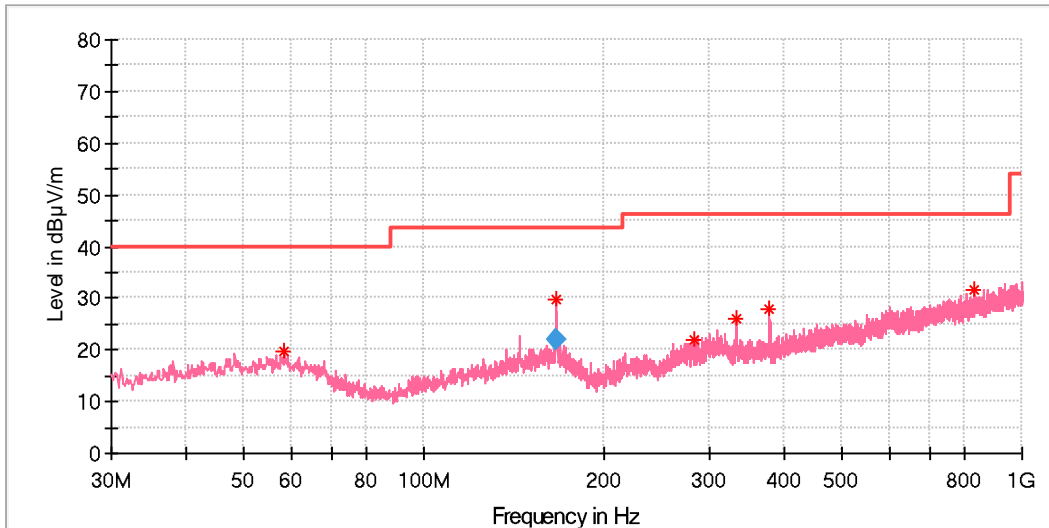
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
166.576000	28.12	43.50	15.38	200.0	H	64.0	21.4
195.191000	25.37	43.50	18.13	200.0	H	105.0	17.0
299.951000	24.23	46.00	21.77	100.0	H	95.0	20.6
377.551000	27.73	46.00	18.27	100.0	H	300.0	22.7
689.406000	30.18	46.00	15.82	100.0	H	194.0	28.9
935.626000	32.63	46.00	13.37	200.0	H	24.0	32.2

### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
935.626000	28.82	46.00	17.18	1000.0	120.000	200.0	H	24.0	32.2

## EUT Information

EUT Name: USB Dongle  
 Order No: 168390083  
 Model: RG51  
 Test Mode: ON  
 Test Voltage: AC 120V, 60Hz  
 Standard: FCC Part 15  
 Test By:/Review By: Ouyang Wang/Gary Chen  
 Tem./Hum./Pressure: 24.7°C/49.6%/101kPa  
 Remark: 3m chamber



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.421000	19.54	40.00	20.46	200.0	V	57.0	21.3
165.977000	29.79	43.50	13.71	100.0	V	255.0	21.3
282.006000	21.90	46.00	24.10	200.0	V	0.0	20.0
333.028000	26.22	46.00	19.78	200.0	V	108.0	21.4
378.230000	27.95	46.00	18.05	200.0	V	216.0	22.7
829.959000	31.56	46.00	14.44	100.0	V	276.0	30.7

## Final\_Result

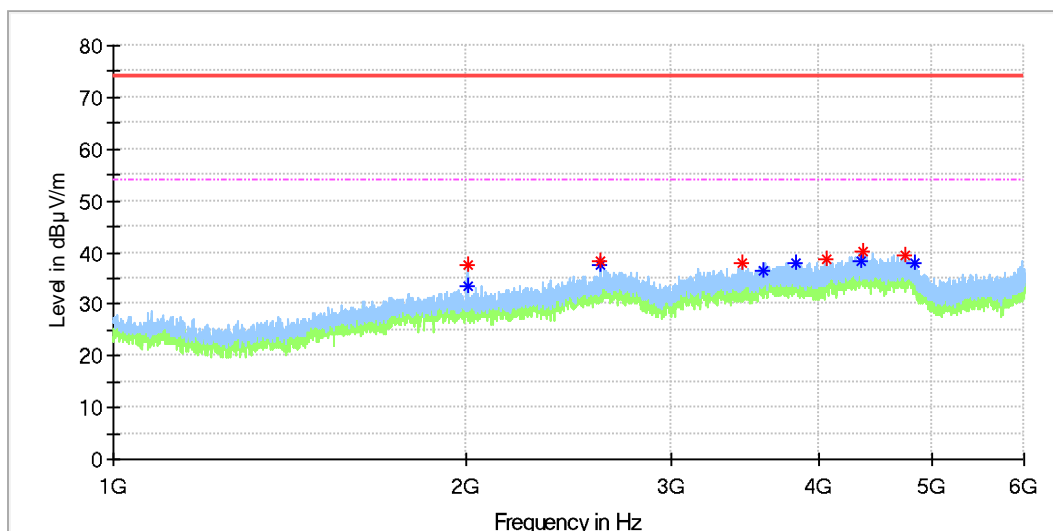
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
165.977000	21.80	43.50	21.70	1000.0	120.000	100.0	V	255.0	21.3

### Appendix B.3: Test Plots of Radiated Emission, Above 1GHz

Note: Testing was carried out within frequency range 30MHz to the 5<sup>th</sup> harmonics. The measurement results above 6GHz were greater than 20dB below the limit, so only record the test result within the 30MHz to 6GHz.

#### EUT Information

EUT Name:	USB Dongle
Order No:	168390083
Model:	RG51
Test Mode:	ON
Test Voltage:	AC 120V, 60Hz
Standard:	FCC Part 15B
Test By:/Review By:	Ouyang Wang/Gary Chen
Tem./Hum./Pressure:	24.0°C/53.3%/101kPa
Remark:	3m chamber

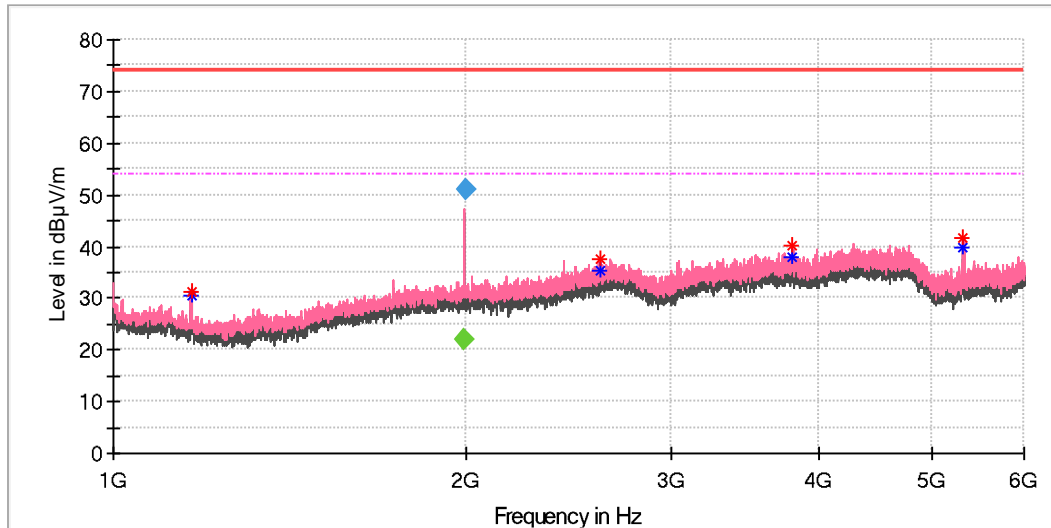


#### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2006.000000	---	33.37	54.00	20.63	100.0	H	331.0	-7.3
2006.000000	37.62	---	74.00	36.38	100.0	H	331.0	-7.3
2606.000000	---	37.52	54.00	16.48	100.0	H	228.0	-3.7
2606.000000	38.18	---	74.00	35.82	100.0	H	228.0	-3.7
3444.500000	37.91	---	74.00	36.09	100.0	H	15.0	-1.3
3592.000000	---	36.50	54.00	17.50	100.0	H	101.0	-0.6
3826.500000	---	37.83	54.00	16.17	100.0	H	158.0	0.0
4066.000000	38.78	---	74.00	35.22	100.0	H	170.0	0.6
4347.000000	---	38.15	54.00	15.85	100.0	H	185.0	2.2
4369.500000	40.18	---	74.00	33.82	100.0	H	134.0	2.1
4755.500000	39.52	---	74.00	34.48	100.0	H	325.0	2.9
4833.000000	---	37.92	54.00	16.08	100.0	H	5.0	1.9

### EUT Information

EUT Name: USB Dongle  
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 Model: RG51  
 Test Mode: ON  
 Test Voltage: AC 120V, 60Hz  
 Standard: FCC Part 15B  
 Test By:/Review By: Ouyang Wang/Gary Chen  
 Tem./Hum./Pressure: 24.0°C/53.3%/101kPa  
 Remark: 3m chamber



### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1165.500000	31.30	---	74.00	42.70	100.0	V	160.0	-13.9
1165.500000	---	30.60	54.00	23.40	100.0	V	160.0	-13.9
1993.200000	---	22.22	54.00	31.78	200.0	V	352.0	-7.4
2000.000000	51.45	---	74.00	22.55	200.0	V	352.0	-7.4
2606.000000	37.75	---	74.00	36.25	200.0	V	76.0	-3.7
2606.500000	---	35.29	54.00	18.71	200.0	V	76.0	-3.6
3800.000000	40.03	---	74.00	33.97	200.0	V	130.0	0.0
3800.000000	---	38.14	54.00	15.86	200.0	V	130.0	0.0
5310.500000	---	39.90	54.00	14.10	200.0	V	179.0	-0.1
5310.500000	41.82	---	74.00	32.18	200.0	V	179.0	-0.1

### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1993.200000	---	22.00	54.00	32.00	100.0	1000.00	200.0	V	352.0	-7.4
2000.000000	50.92	---	74.00	23.08	100.0	1000.00	200.0	V	352.0	-7.4