

Appendix A: Test Results

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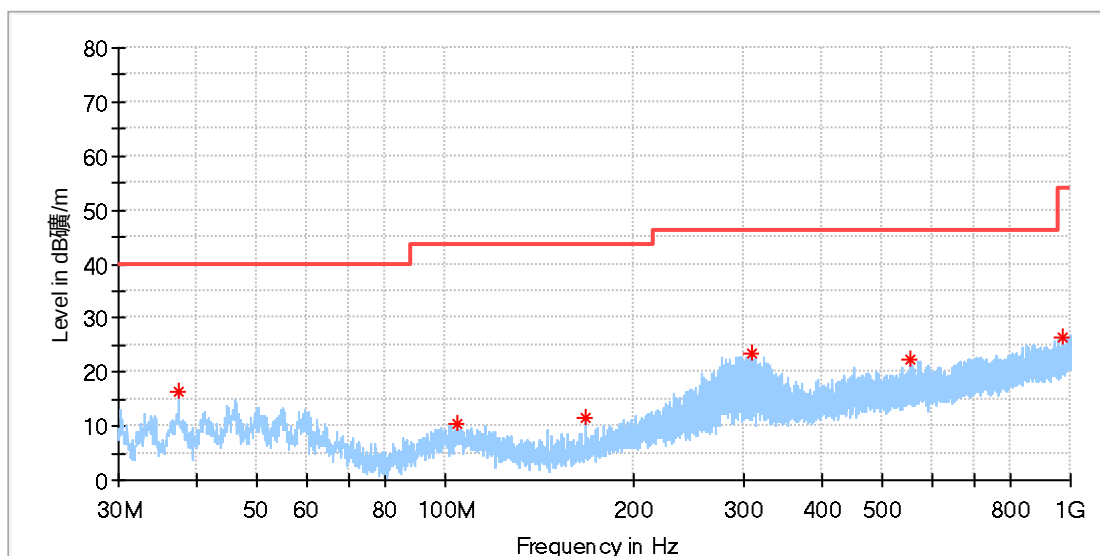
Appendix A.1: Test Results of Field Strength of Fundamental & Harmonics

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 Dongle
Model:	DG394
Test Mode:	2.4G Mid CH
Order No/Sample No:	168440449/A003560519-001
Test Voltage:	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

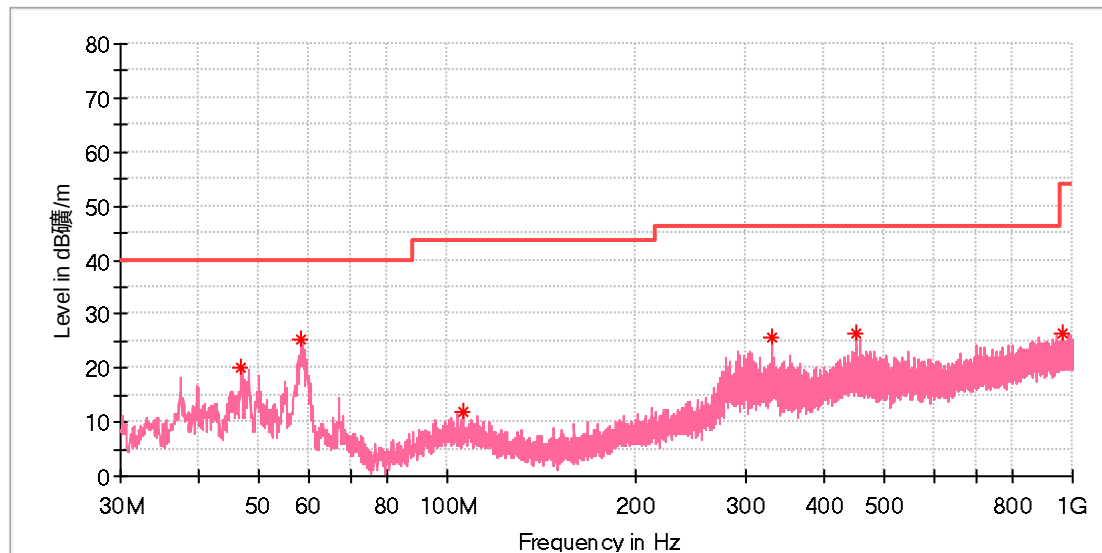
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.498846	16.24	40.00	23.76	100.0	H	279.0	-21.2
104.690000	10.54	43.50	32.96	100.0	H	164.0	-19.1
168.001154	11.52	43.50	31.98	100.0	H	164.0	-21.7
309.173462	23.61	46.00	22.39	100.0	H	81.0	-16.4
555.814615	22.20	46.00	23.80	100.0	H	81.0	-11.1
970.526923	26.25	54.00	27.75	100.0	H	341.0	-4.6

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:	Wireless Dongle
Model:	DG394
Test Mode:	2.4G Mid CH
Order No/Sample No:	168440449/A003560519-001
Test Voltage:	DC 5V From USB
Remark:	Temp 24 Humi:50%
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)
46.863077	19.97	40.00	20.03	100.0	V	229.0	-18.9
58.465769	25.34	40.00	14.66	100.0	V	109.0	-19.1
106.219615	11.83	43.50	31.67	100.0	V	258.0	-19.2
329.655385	25.50	46.00	20.50	100.0	V	186.0	-15.7
450.121923	26.46	46.00	19.54	100.0	V	130.0	-13.3
961.834231	26.34	54.00	27.66	100.0	V	0.0	-4.7

Final_Result

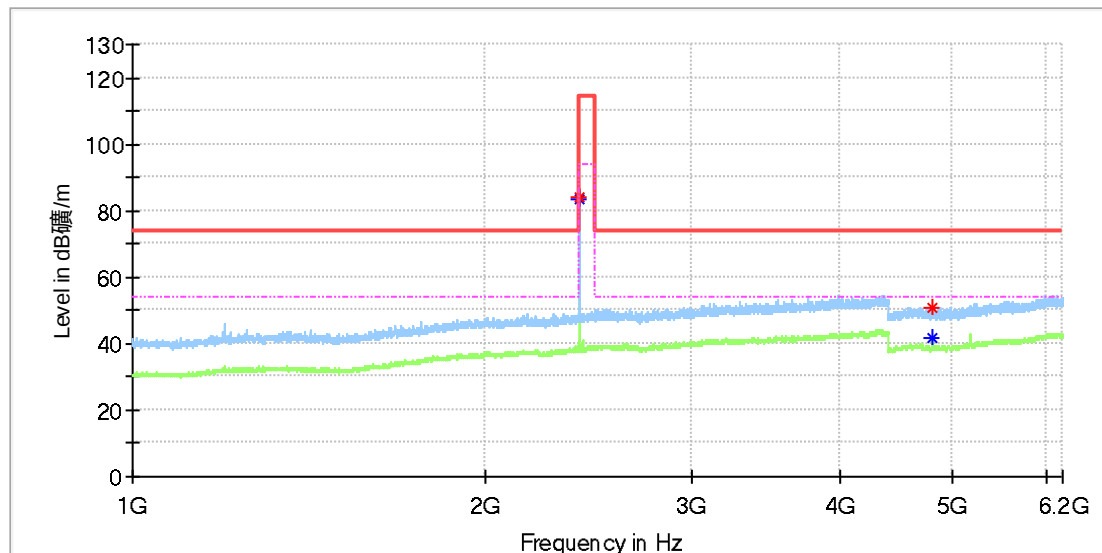
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Wireless Dongle
Model:	DG394
Test Mode:	2.4G L CH
Order No/Sample No:	168440449/A003560519-001
Test Voltage:	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

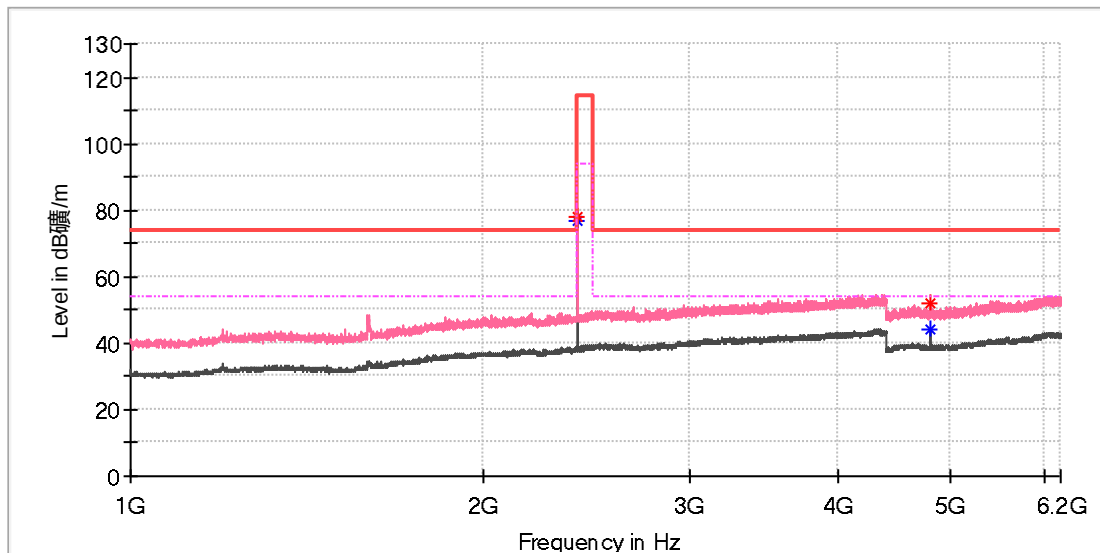
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.000000	84.02	---	114.00	29.98	150.0	H	327.0	7.0
2402.000000	---	83.18	94.00	10.82	150.0	H	327.0	7.0
4803.000000	50.90	---	74.00	23.10	150.0	H	18.0	11.8
4803.500000	---	41.89	54.00	12.11	150.0	H	334.0	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: Wireless Dongle
Model: DG394
Test Mode: 2.4G L CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

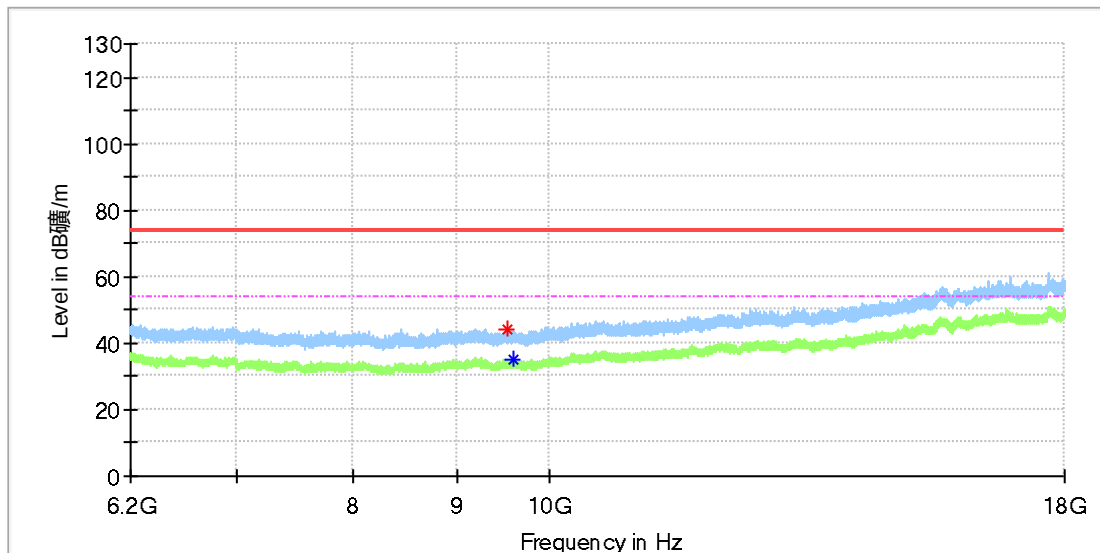
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.500000	77.84	---	114.00	36.16	150.0	V	25.0	7.0
2402.000000	---	76.91	94.00	17.09	150.0	V	18.0	7.0
4803.500000	51.73	---	74.00	22.27	150.0	V	80.0	11.8
4804.000000	---	43.99	54.00	10.01	150.0	V	99.0	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: Wireless Dongle
Model: DG394
Test Mode: 2.4G L CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

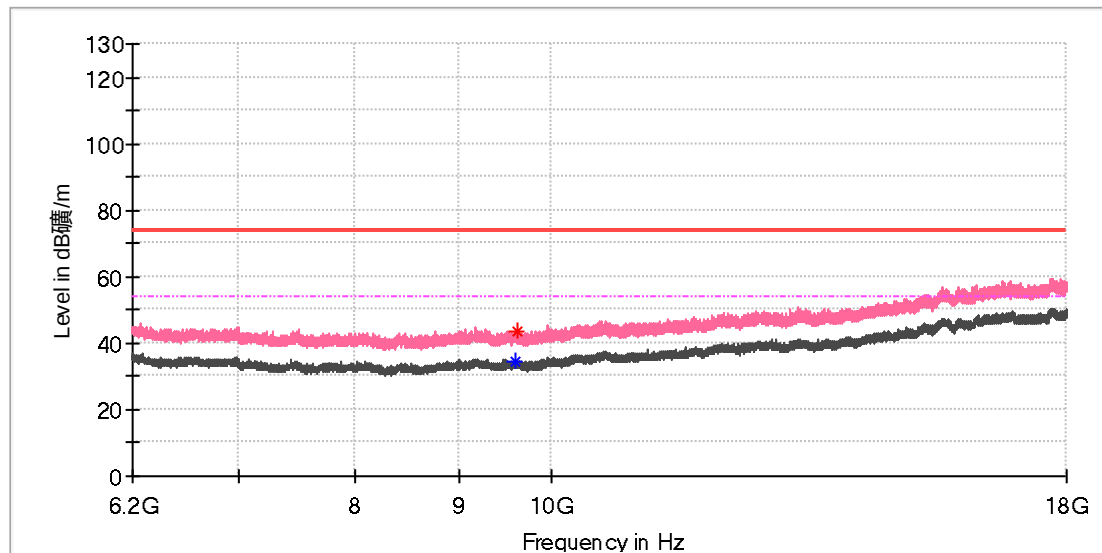
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9536.450000	43.90	---	74.00	30.10	150.0	H	0.0	10.1
9599.875000	---	34.94	54.00	19.06	150.0	H	246.0	10.4

Final_Result

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

EUT Information

EUT Name: Wireless Dongle
Model: DG394
Test Mode: 2.4G L CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

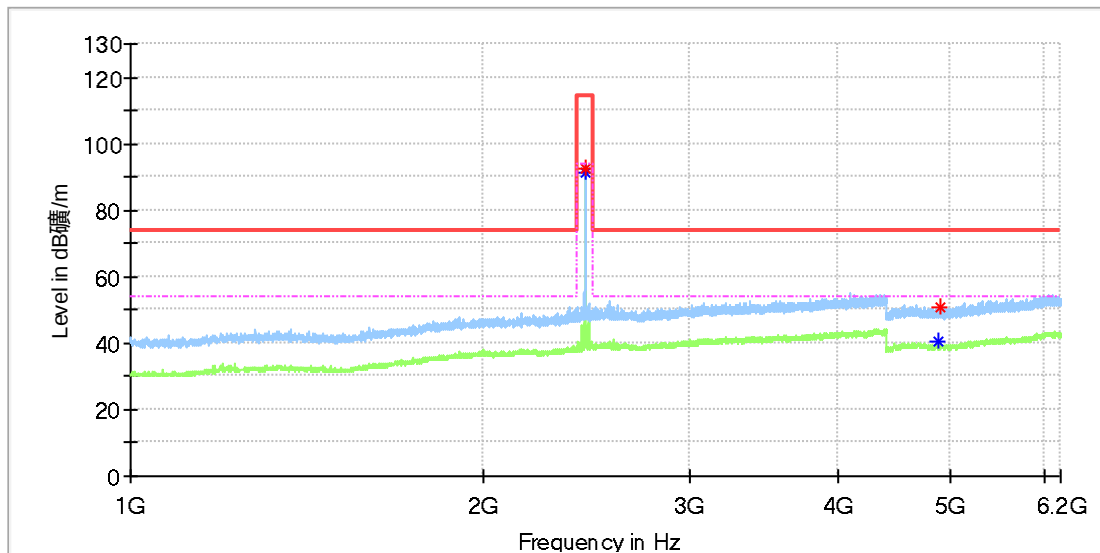
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9593.975000	---	34.43	54.00	19.57	150.0	V	352.0	10.3
9625.441667	43.71	---	74.00	30.29	150.0	V	0.0	10.4

Final_Result

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

EUT Information

EUT Name:	Wireless Dongle
Model:	DG394
Test Mode:	2.4G Mid CH
Order No/Sample No:	168440449/A003560519-001
Test Voltage:	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

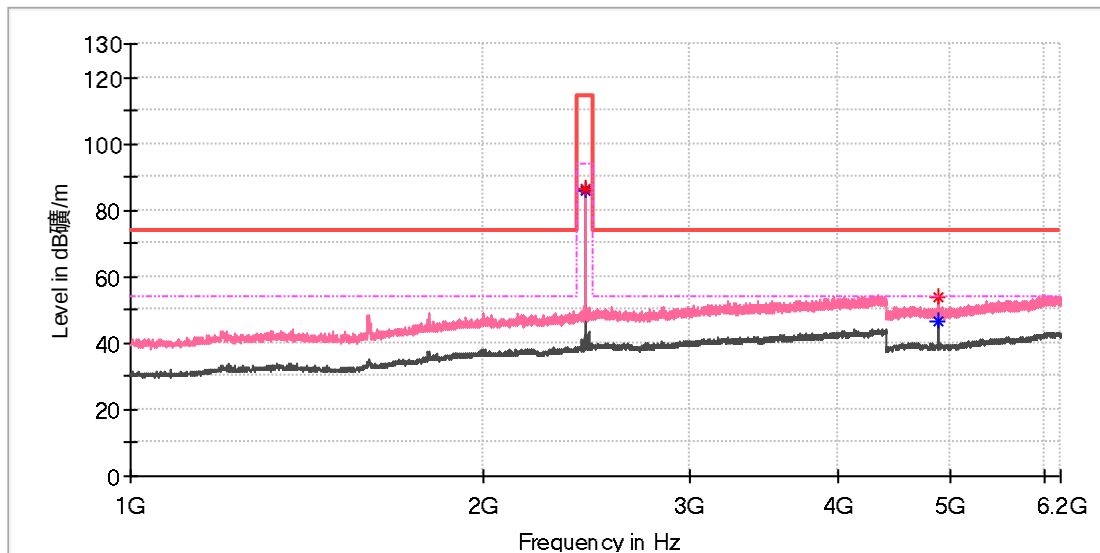
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.000000	---	90.64	94.00	3.36	150.0	H	327.0	7.4
2440.500000	91.30	---	114.00	22.70	150.0	H	327.0	7.4
4879.500000	---	40.35	54.00	13.65	150.0	H	1.0	11.8
4895.500000	50.63	---	74.00	23.37	150.0	H	76.0	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: Wireless Dongle
Model: DG394
Test Mode: 2.4G Mid CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

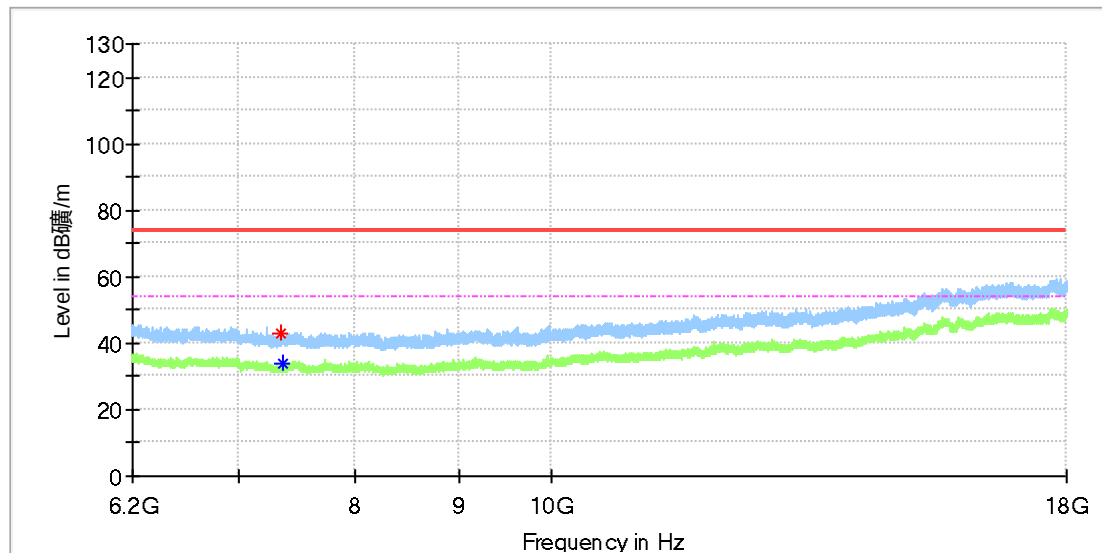
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.000000	---	85.71	94.00	8.29	150.0	V	27.0	7.4
2440.500000	86.52	---	114.00	27.48	150.0	V	27.0	7.4
4879.000000	53.62	---	74.00	20.38	150.0	V	128.0	11.8
4880.000000	---	46.40	54.00	7.60	150.0	V	128.0	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:	Wireless Dongle
Model:	DG394
Test Mode:	2.4G Mid CH
Order No/Sample No:	168440449/A003560519-001
Test Voltage:	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

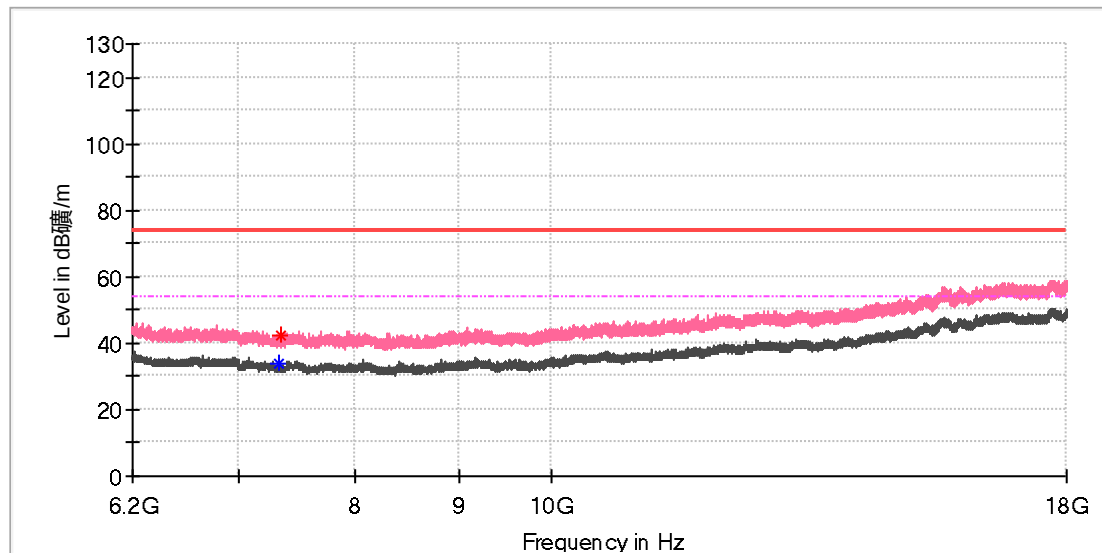
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7341.158333	42.85	---	74.00	31.15	150.0	H	168.0	8.1
7354.433333	---	33.83	54.00	20.17	150.0	H	355.0	8.1

Final_Result

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

EUT Information

EUT Name: Wireless Dongle
Model: DG394
Test Mode: 2.4G Mid CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

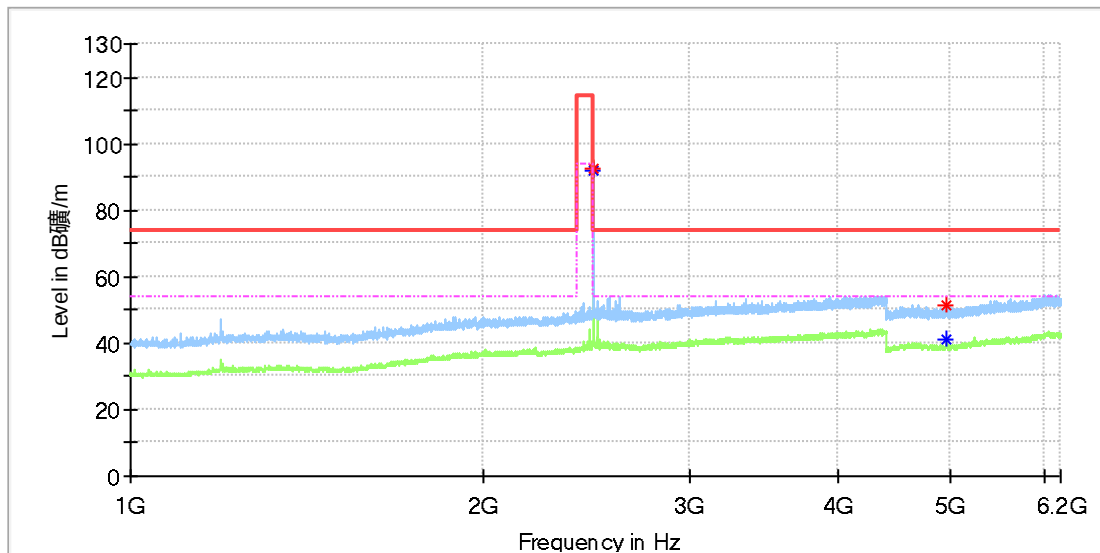
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.491667	---	33.86	54.00	20.14	150.0	V	45.0	8.2
7336.733333	42.43	---	74.00	31.57	150.0	V	107.0	8.1

Final_Result

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

EUT Information

EUT Name:	Wireless Dongle
Model:	DG394
Test Mode:	2.4G H CH
Order No/Sample No:	168440449/A003560519-001
Test Voltage:	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

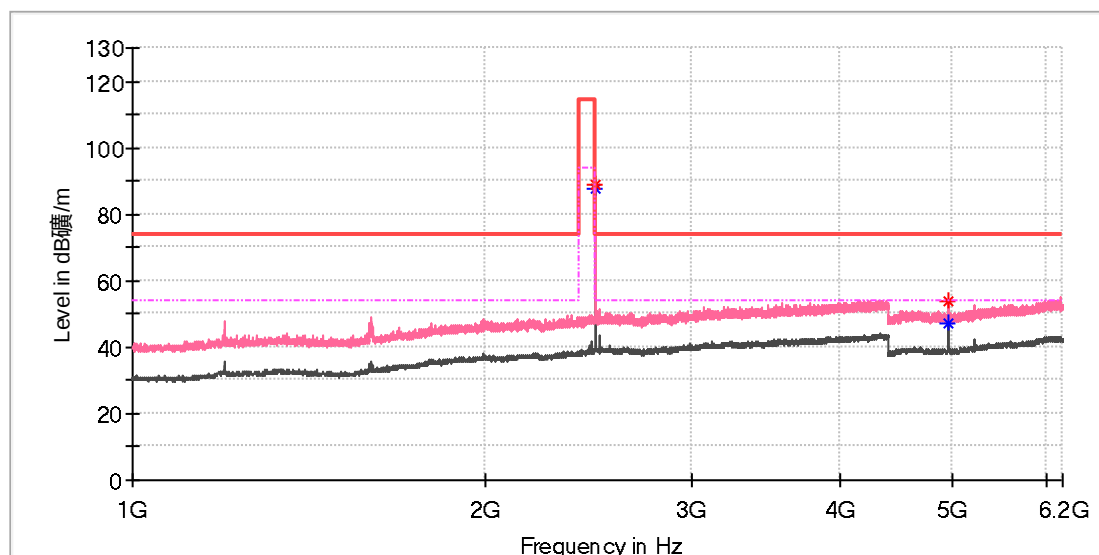
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	---	90.83	94.00	3.17	150.0	H	327.0	7.4
2480.500000	91.75	---	114.00	22.25	150.0	H	327.0	7.4
4960.000000	51.11	---	74.00	22.89	150.0	H	0.0	11.8
4960.000000	---	40.90	54.00	13.10	150.0	H	0.0	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: Wireless Dongle
Model: DG394
Test Mode: 2.4G H CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

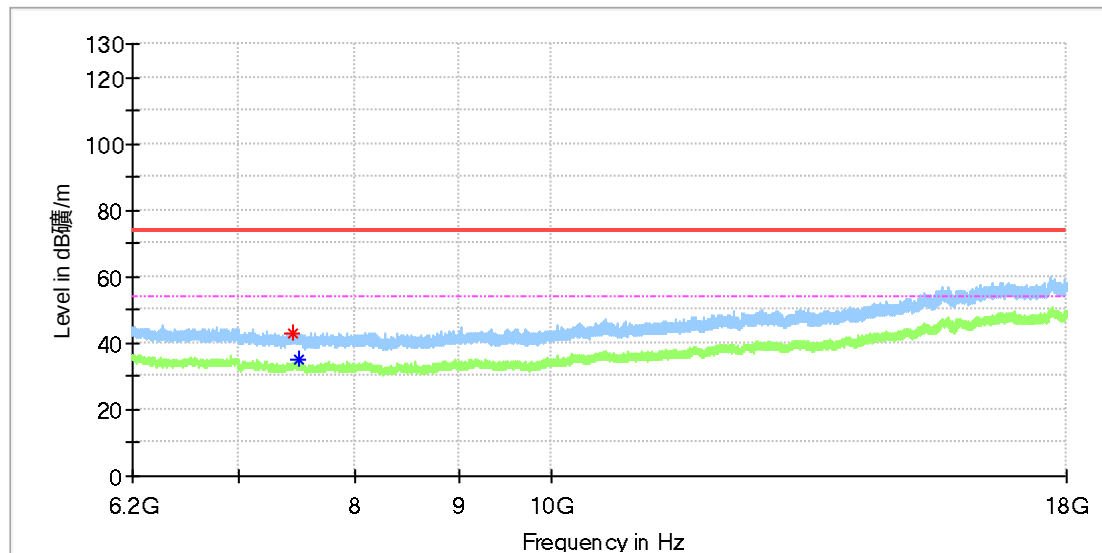
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	---	87.51	94.00	6.49	150.0	V	105.0	7.4
2480.500000	88.61	---	114.00	25.39	150.0	V	111.0	7.4
4959.500000	53.65	---	74.00	20.35	150.0	V	122.0	11.8
4960.000000	---	47.12	54.00	6.88	150.0	V	122.0	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: Wireless Dongle
Model: DG394
Test Mode: 2.4G H CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

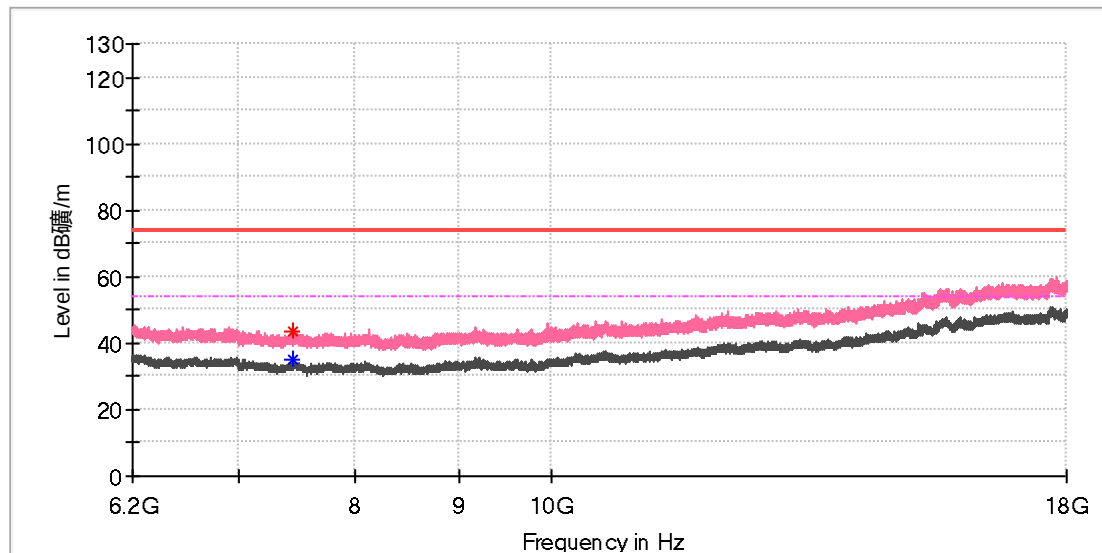
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7444.900000	43.01	---	74.00	30.99	150.0	H	186.0	8.5
7490.133333	---	34.79	54.00	19.21	150.0	H	197.0	8.7

Final_Result

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

EUT Information

EUT Name: Wireless Dongle
Model: DG394
Test Mode: 2.4G H CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

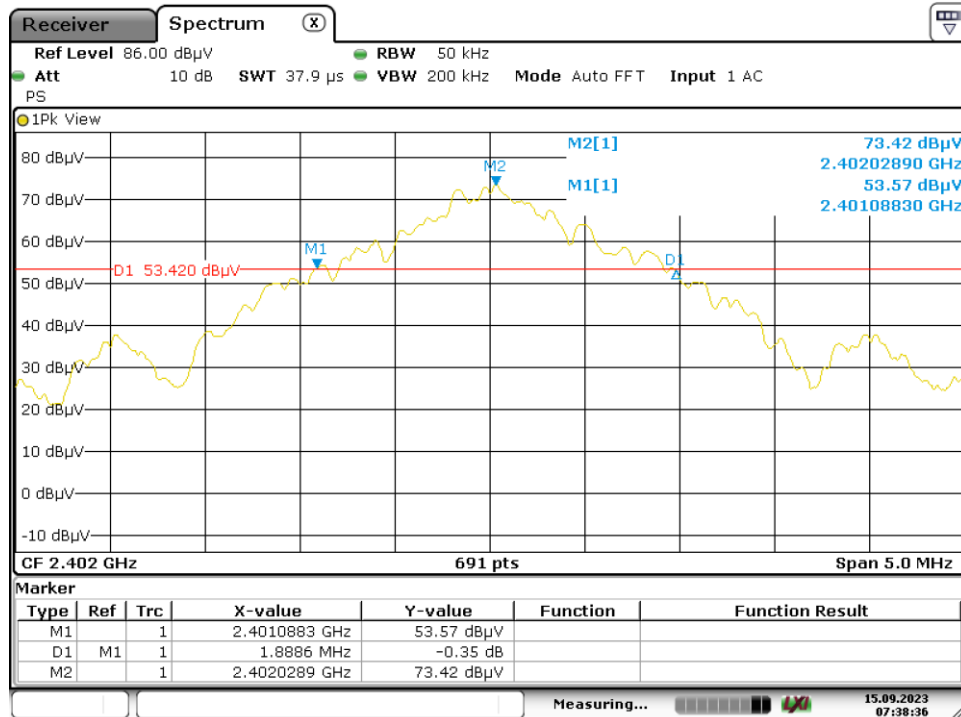
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7437.033333	43.36	---	74.00	30.64	150.0	V	338.0	8.4
7452.766667	---	35.16	54.00	18.84	150.0	V	290.0	8.5

Final_Result

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

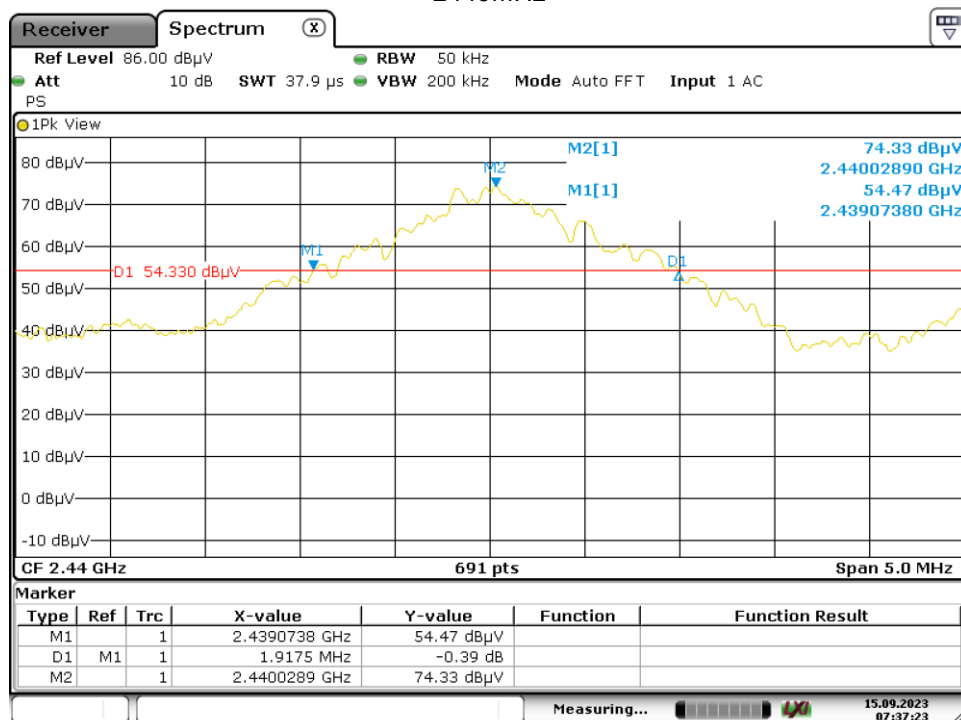
Appendix A.2: Test Results of 20dB Bandwidth

2402MHz

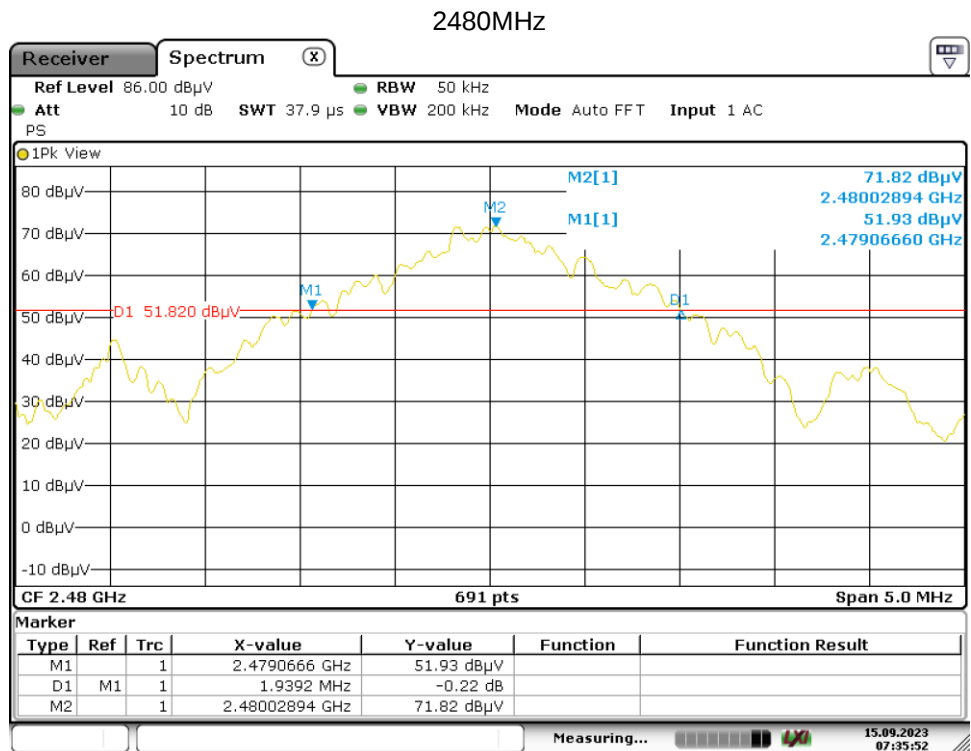


Date: 15.SEP.2023 07:38:36

2440MHz



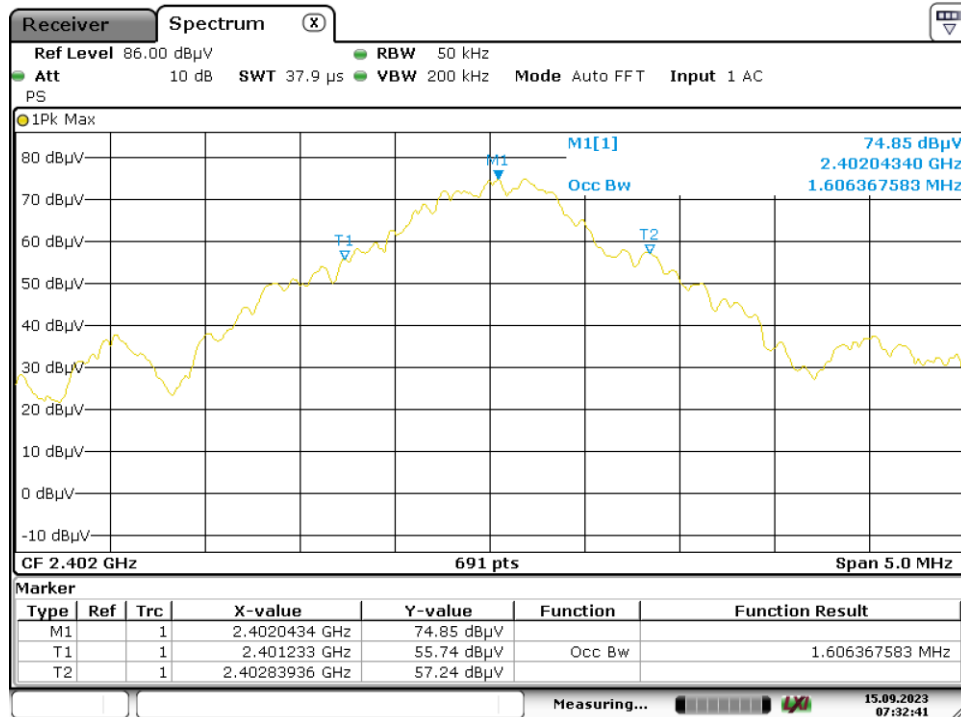
Date: 15.SEP.2023 07:37:23



Date: 15.SEP.2023 07:35:52

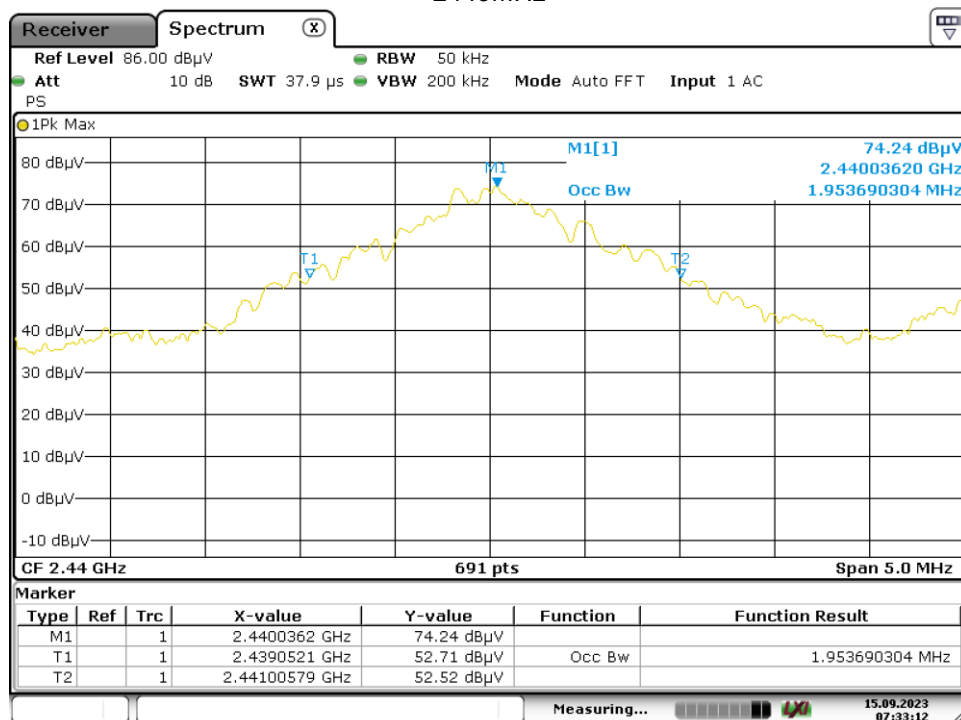
Appendix A.3: Test Results of 99% Bandwidth

2402MHz

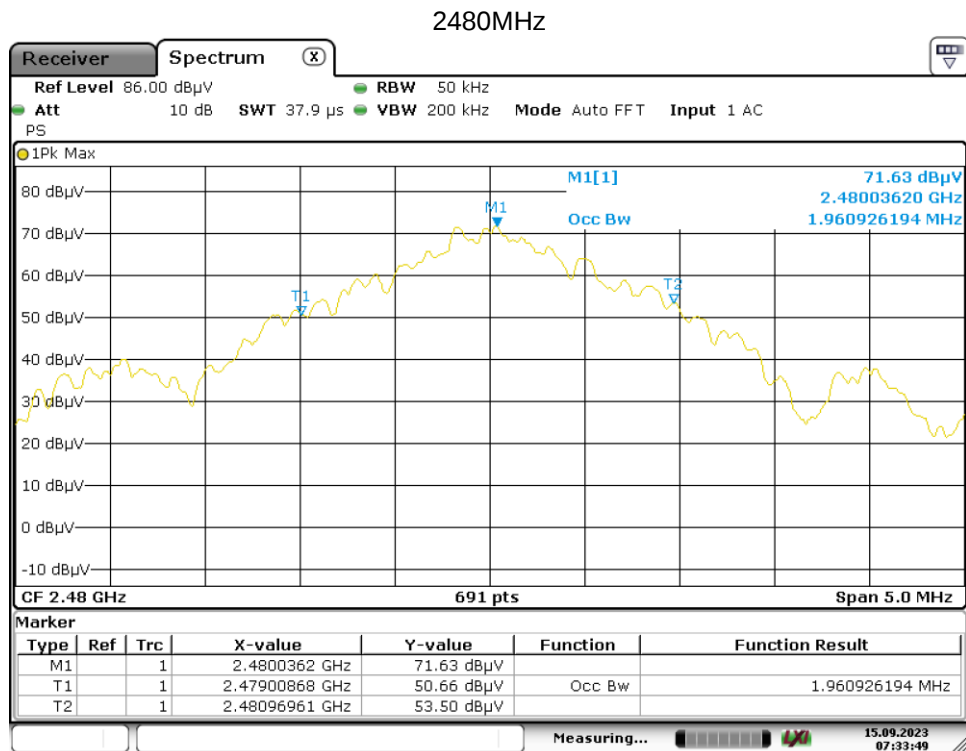


Date: 15.SEP.2023 07:32:41

2440MHz



Date: 15.SEP.2023 07:33:13

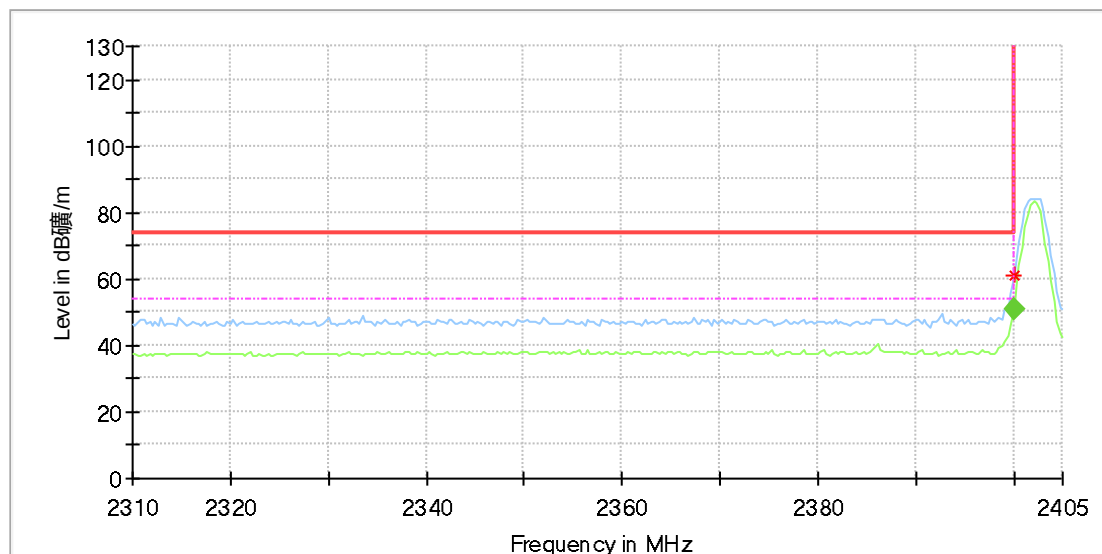


Date: 15.SEP.2023 07:33:49

Appendix A.4: Test Results of Band Edge

EUT Information

EUT Name:	Wireless Dongle
Model:	DG394
Test Mode:	2.4G L CH
Order No/Sample No:	168440449/A003560519-001
Test Voltage:	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

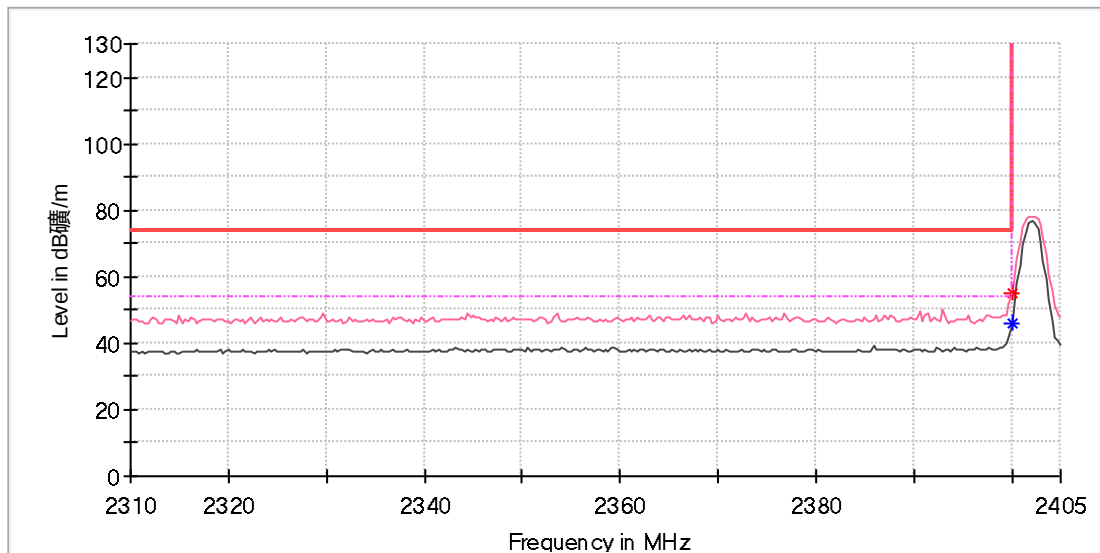
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2400.000000	60.78	---	74.00	13.22	150.0	H	330.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2400.000000	50.96	54.00	3.04	147.0	H	325.0	7.0

EUT Information

EUT Name: Wireless Dongle
Model: DG394
Test Mode: 2.4G L CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

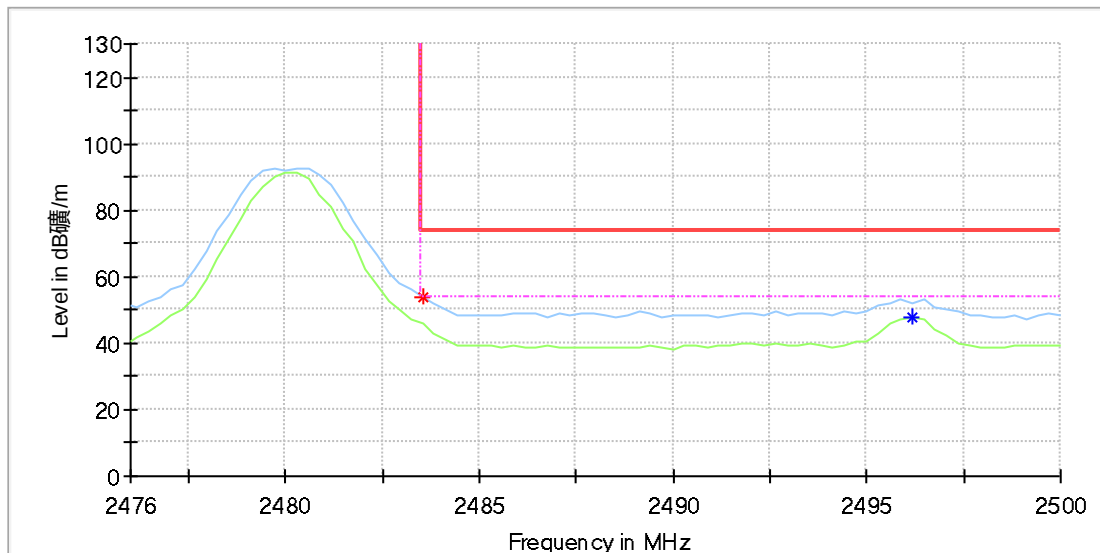
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2400.000000	---	45.92	54.00	8.08	150.0	V	0.0	7.0
2400.000000	54.97	---	74.00	19.03	150.0	V	0.0	7.0

Final_Result

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

EUT Information

EUT Name: Wireless Dongle
Model: DG394
Test Mode: 2.4G H CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

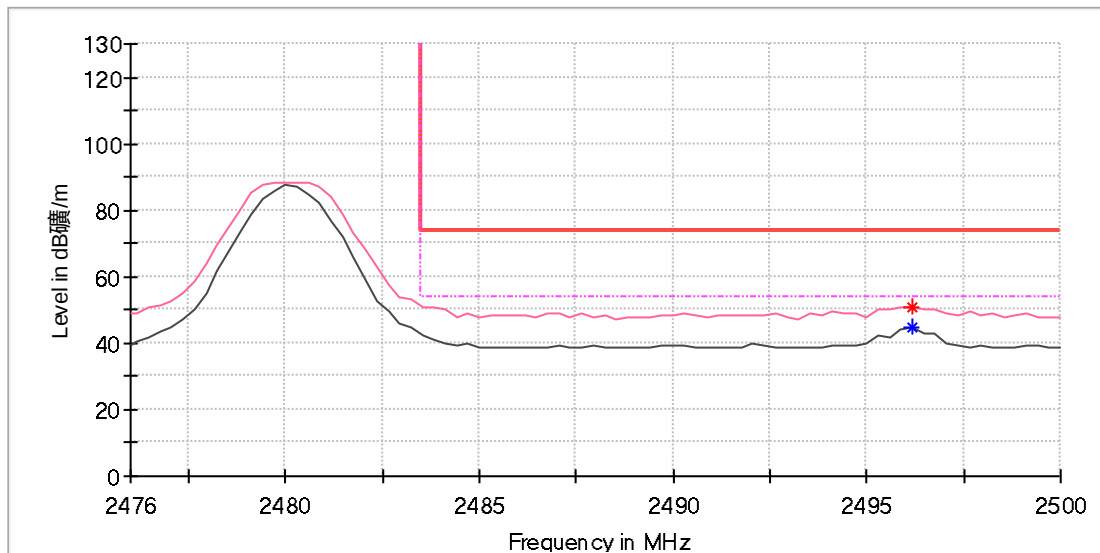
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	54.04	---	74.00	19.96	150.0	H	324.0	7.4
2496.176471	---	47.86	54.00	6.14	150.0	H	331.0	7.4

Final_Result

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

EUT Information

EUT Name: Wireless Dongle
Model: DG394
Test Mode: 2.4G H CH
Order No/Sample No: 168440449/A003560519-001
Test Voltage: DC 5V From USB
Remark: Temp 24 Humi:50%
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)
2496.176471	50.97	---	74.00	23.03	150.0	V	101.0	7.4
2496.176471	---	44.55	54.00	9.45	150.0	V	101.0	7.4

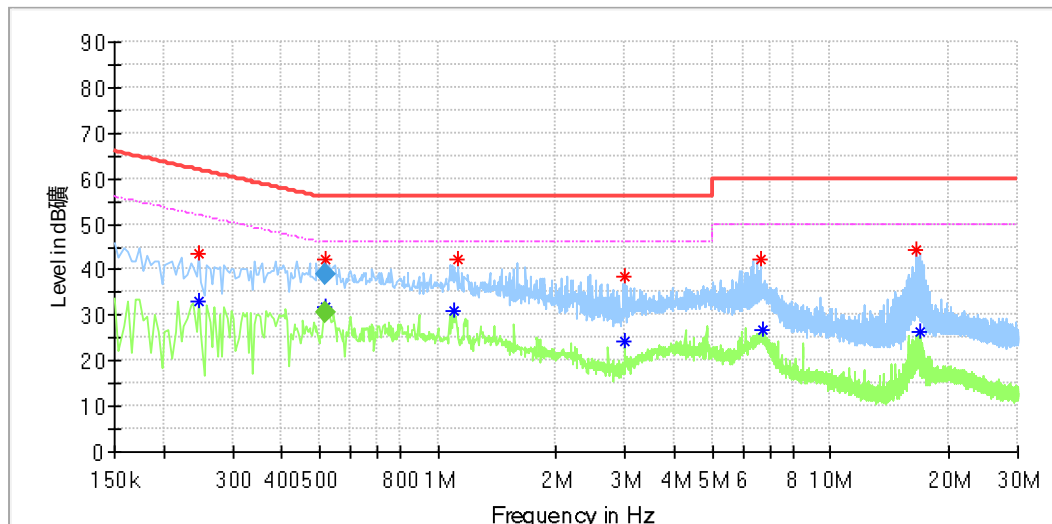
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Wireless Dongle
Order Number: 168440449
Model: DG394
Test Mode: On, Normal working
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Solomon Wu/Gary Chen
Tem./Hum./Pressure: 25.0°C/51.2%/101kPa
Remark: SR2



Critical_Freqs

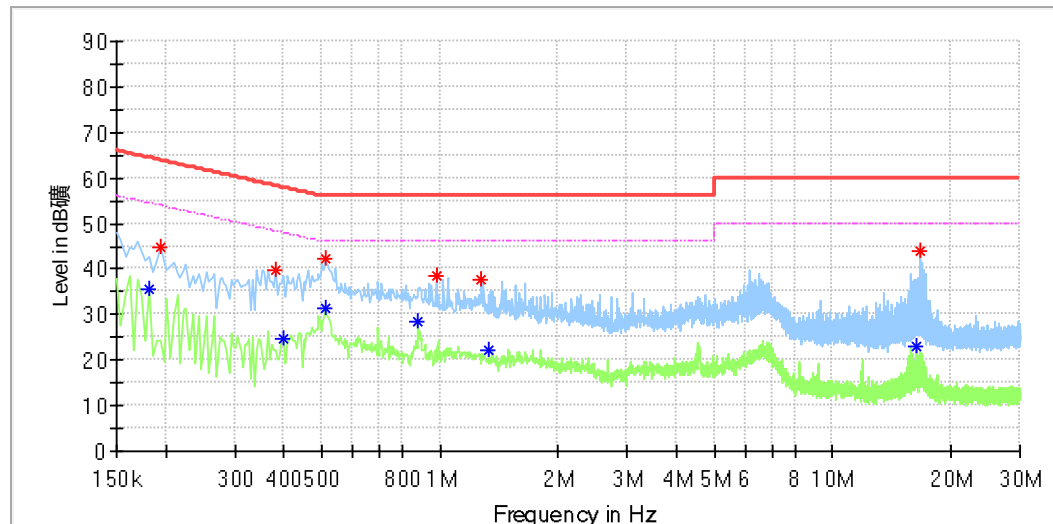
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.246000	---	33.04	51.89	18.85	L1	9.9
0.246000	43.34	---	61.89	18.55	L1	9.9
0.514500	42.25	---	56.00	13.75	L1	10.0
0.517500	---	31.99	46.00	14.01	L1	10.0
1.102000	---	30.78	46.00	15.22	L1	10.0
1.122000	42.21	---	56.00	13.79	L1	10.0
2.982000	---	24.42	46.00	21.58	L1	10.2
2.982000	38.64	---	56.00	17.36	L1	10.2
6.662000	42.42	---	60.00	17.58	L1	10.3
6.742000	---	26.94	50.00	23.06	L1	10.3
16.542000	44.37	---	60.00	15.63	L1	10.4
16.814000	---	26.43	50.00	23.57	L1	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.514500	39.00	---	56.00	17.00	1000.0	9.000	L1	10.0
0.517500	---	30.43	46.00	15.57	1000.0	9.000	L1	10.0

EUT Information

EUT Name: Wireless Dongle
Order Number: 168440449
Model: DG394
Test Mode: On, Normal working
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Solomon Wu/Gary Chen
Tem./Hum./Pressure: 25.0°C/51.2%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.182000	---	35.56	54.39	18.83	N	9.8
0.194000	44.98	---	63.86	18.88	N	9.8
0.382000	39.81	---	58.24	18.43	N	9.8
0.398000	---	24.67	47.90	23.22	N	9.8
0.510000	42.47	---	56.00	13.53	N	9.8
0.510000	---	31.23	46.00	14.77	N	9.8
0.882000	---	28.51	46.00	17.49	N	9.8
0.978000	38.40	---	56.00	17.60	N	9.8
1.278000	37.52	---	56.00	18.48	N	9.8
1.330000	---	22.02	46.00	23.98	N	9.8
16.258000	---	22.95	50.00	27.05	N	10.2
16.678000	43.89	---	60.00	16.11	N	10.2