

Appendix A: Test Results of FCC 15B

APPENDIX A: TEST RESULTS OF FCC 15B	1
APPENDIX A.1: TEST PLOTS OF CONDUCTED EMISSION ON AC MAINS	2
<i>Normal operation + LAN + BNC Terminal + Wi-Fi attached</i>	2
<i>Normal operation + Wi-Fi + BNC Terminal</i>	4
APPENDIX A.2: TEST PLOTS OF RADIATED EMISSION, BELOW 1GHz	6
<i>Normal operation + LAN + BNC Terminal + Wi-Fi attached</i>	6
<i>Normal operation + Wi-Fi + BNC Terminal</i>	8
APPENDIX A.3: TEST PLOTS OF RADIATED EMISSION, ABOVE 1GHz	10
<i>Normal operation + LAN + BNC Terminal + Wi-Fi attached</i>	10
<i>Normal operation + Wi-Fi + BNC Terminal</i>	12

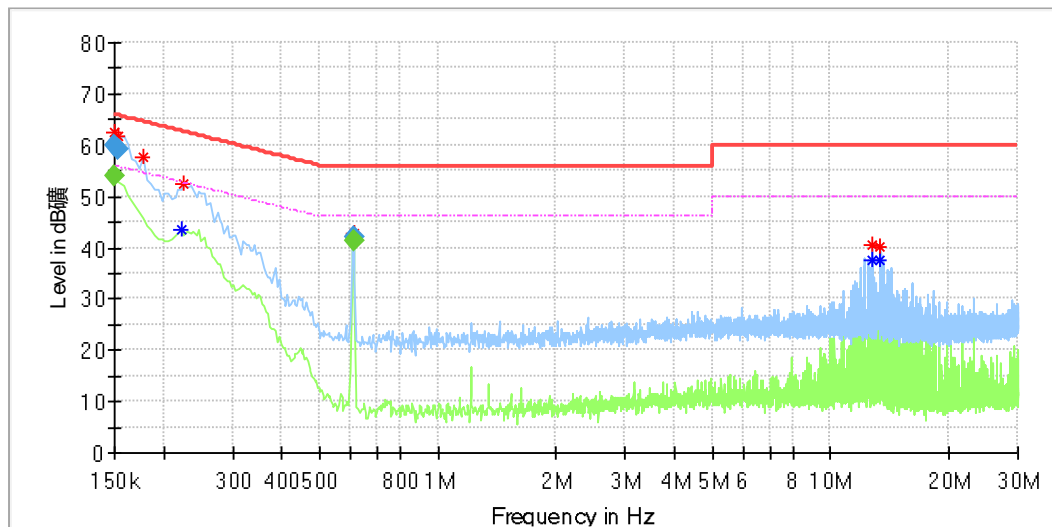
Appendix A.1: Test Plots of Conducted Emission on AC Mains

Note: The limit shown in the below plots are met the CLASS B device, which also meet the limit of CLASS A device.

Normal operation + LAN + BNC Terminal + Wi-Fi attached

EUT Information

EUT Name:	Thermal Camera
Order Number:	168393917
Model:	M6T25
Test Mode:	Normal operation+LAN
Test Voltage:	DC 12V
Test By./Review By:	Shower Dai/Gary Chen
Test Standard:	FCC Part 15
Tem./Hum./Pressure:	24.6°C/49.6%/101kPa
Remark:	SR2



Critical Freqs

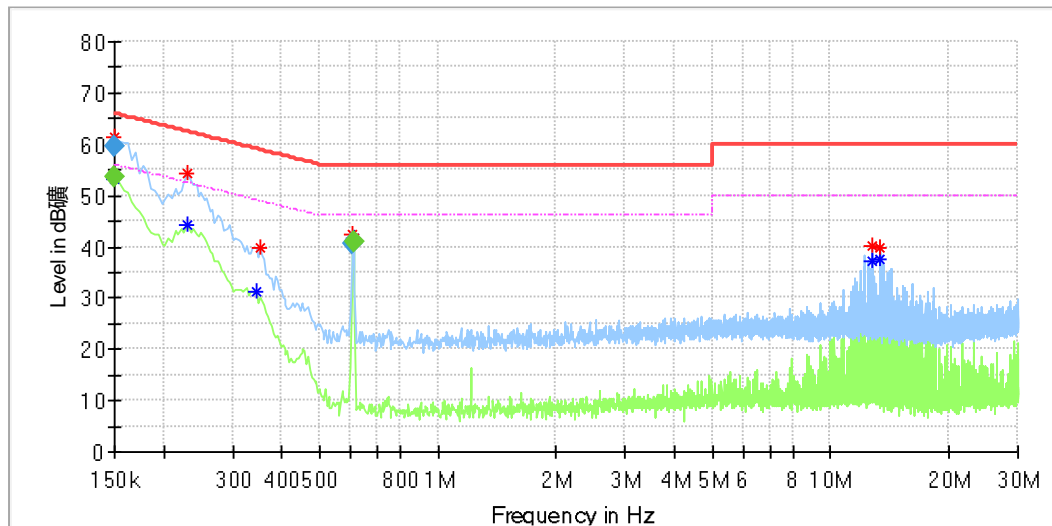
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Polarity	Corr. (dB)
0.150000	62.42	---	66.00	3.58	-	9.9
0.150000	---	54.45	56.00	1.55	-	9.9
0.153500	61.84	---	65.57	3.72	-	9.9
0.178000	57.78	---	64.58	6.80	-	9.9
0.222000	---	43.62	52.74	9.12	-	9.9
0.226000	52.38	---	62.60	10.22	-	9.9
0.609500	---	41.72	46.00	4.28	-	10.0
0.609500	42.94	---	56.00	13.06	-	10.0
12.746000	40.56	---	60.00	19.44	-	10.4
12.746000	---	37.47	50.00	12.53	-	10.4
13.418000	---	37.56	50.00	12.44	-	10.4
13.418000	40.16	---	60.00	19.84	-	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Polarity	Corr. (dB)
0.150000	---	53.89	56.00	2.11	1000.0	9.000	-	9.9
0.150000	59.79	---	66.00	6.21	1000.0	9.000	-	9.9
0.153500	59.04	---	65.81	6.77	1000.0	9.000	-	9.9
0.609500	---	41.21	46.00	4.79	1000.0	9.000	-	10.0
0.609500	41.94	---	56.00	14.06	1000.0	9.000	-	10.0

EUT Information

EUT Name:	Thermal Camera
Order Number:	168393917
Model:	M6T25
Test Mode:	Normal operation+LAN
Test Voltage:	DC 12V
Test By:/Review By:	Shower Dai/Gary Chen
Test Standard:	FCC Part 15
Tem./Hum./Pressure:	24.6°C/49.6%/101kPa
Remark:	SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Polarity	Corr. (dB)
0.150000	---	53.23	56.00	2.77	+	9.8
0.150000	61.33	---	66.00	4.67	+	9.8
0.230000	---	44.35	52.45	8.10	+	9.8
0.230000	54.34	---	62.45	8.11	+	9.8
0.346000	---	31.32	49.06	17.73	+	9.8
0.354000	39.96	---	58.87	18.91	+	9.8
0.605500	42.59	---	56.00	13.41	+	9.8
0.609500	---	41.64	46.00	4.36	+	9.8
12.746000	---	37.20	50.00	12.80	+	10.1
12.746000	40.29	---	60.00	19.71	+	10.1
13.418000	---	37.76	50.00	12.24	+	10.1
13.418000	39.93	---	60.00	20.07	+	10.1

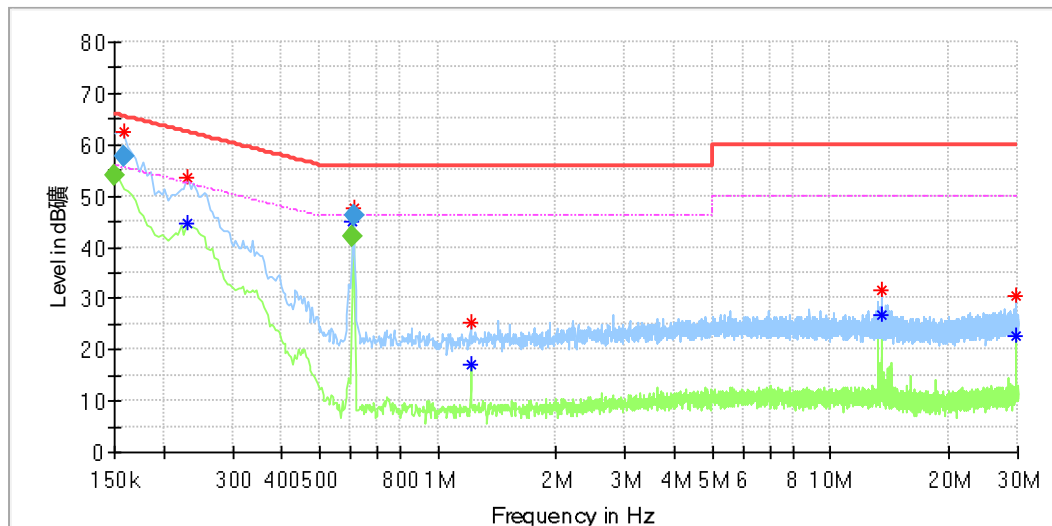
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Polarity	Corr. (dB)
0.150000	---	53.76	56.00	2.24	1000.0	9.000	+	9.8
0.150000	59.51	---	66.00	6.49	1000.0	9.000	+	9.8
0.605500	40.71	---	56.00	15.29	1000.0	9.000	+	9.8
0.609500	---	40.84	46.00	5.16	1000.0	9.000	+	9.8

Normal operation + Wi-Fi + BNC Terminal

EUT Information

EUT Name:	Thermal Camera
Order Number:	168393917
Model:	M6T25
Test Mode:	Normal operation+WIFI
Test Voltage:	DC 12V
Test By:/Review By:	Shower Dai/Gary Chen
Test Standard:	FCC Part 15
Tem./Hum./Pressure:	24.6°C/49.6%/101kPa
Remark:	SR2



Critical Freqs

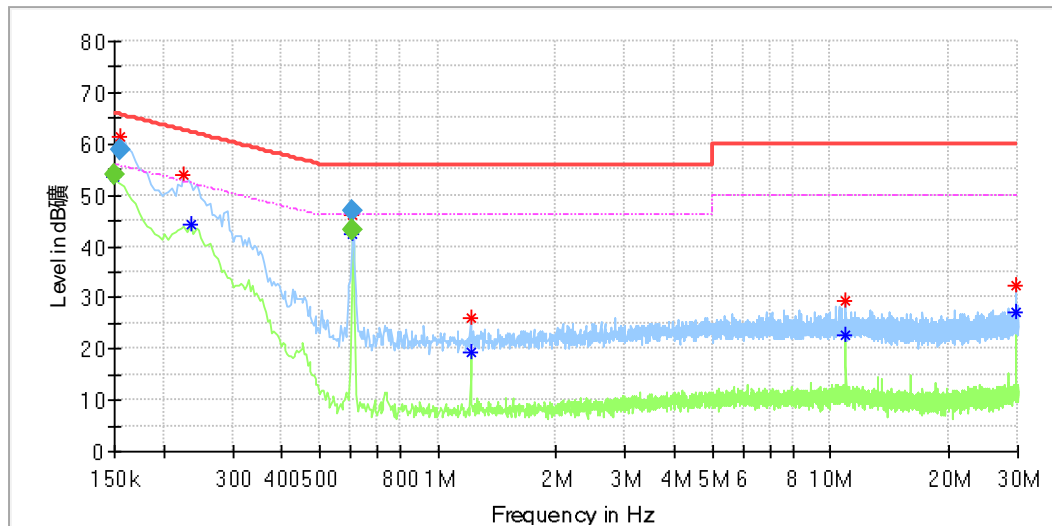
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Polarity	Corr. (dB)
0.150000	---	53.90	56.00	2.10	-	9.9
0.158500	62.43	---	65.78	3.35	-	9.9
0.230000	---	44.55	52.45	7.90	-	9.9
0.230000	53.71	---	62.45	8.74	-	9.9
0.605500	---	44.85	46.00	1.15	-	10.0
0.609500	47.61	---	56.00	8.39	-	10.0
1.214000	---	17.19	46.00	28.81	-	10.1
1.218000	25.20	---	56.00	30.80	-	10.1
13.498000	---	26.79	50.00	23.21	-	10.4
13.502000	31.72	---	60.00	28.28	-	10.4
29.582000	---	22.63	50.00	27.37	-	10.4
29.582000	30.45	---	60.00	29.55	-	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Polarity	Corr. (dB)
0.150000	---	53.87	56.00	2.13	1000.0	9.000	-	9.9
0.158500	57.51	---	65.54	8.03	1000.0	9.000	-	9.9
0.605500	---	42.07	46.00	3.93	1000.0	9.000	-	10.0
0.609500	46.12	---	56.00	9.88	1000.0	9.000	-	10.0

EUT Information

EUT Name: Thermal Camera
 Order Number: 168393917
 Model: M6T25
 Test Mode: Normal operation+WIFI
 Test Voltage: DC 12V
 Test By:/Review By: Shower Dai/Gary Chen
 Test Standard: FCC Part 15
 Tem./Hum./Pressure: 24.6°C/49.6%/101kPa
 Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Polarity	Corr. (dB)
0.150000	---	53.52	56.00	2.48	+	9.8
0.154500	61.46	---	66.00	4.54	+	9.8
0.226000	53.79	---	62.60	8.80	+	9.8
0.234000	---	44.28	52.31	8.03	+	9.8
0.605500	---	42.50	46.00	3.50	+	9.8
0.605500	46.29	---	56.00	9.71	+	9.8
1.214000	---	19.29	46.00	26.71	+	9.8
1.214000	26.17	---	56.00	29.83	+	9.8
10.954000	---	22.65	50.00	27.35	+	10.0
10.954000	29.38	---	60.00	30.62	+	10.0
29.578000	---	27.23	50.00	22.77	+	10.4
29.578000	32.37	---	60.00	27.63	+	10.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Polarity	Corr. (dB)
0.150000	---	53.81	56.00	2.19	1000.0	9.000	+	9.8
0.154500	58.75	---	65.75	7.00	1000.0	9.000	+	9.8
0.605500	---	43.34	46.00	2.66	1000.0	9.000	+	9.8
0.605500	47.02	---	56.00	8.98	1000.0	9.000	+	9.8

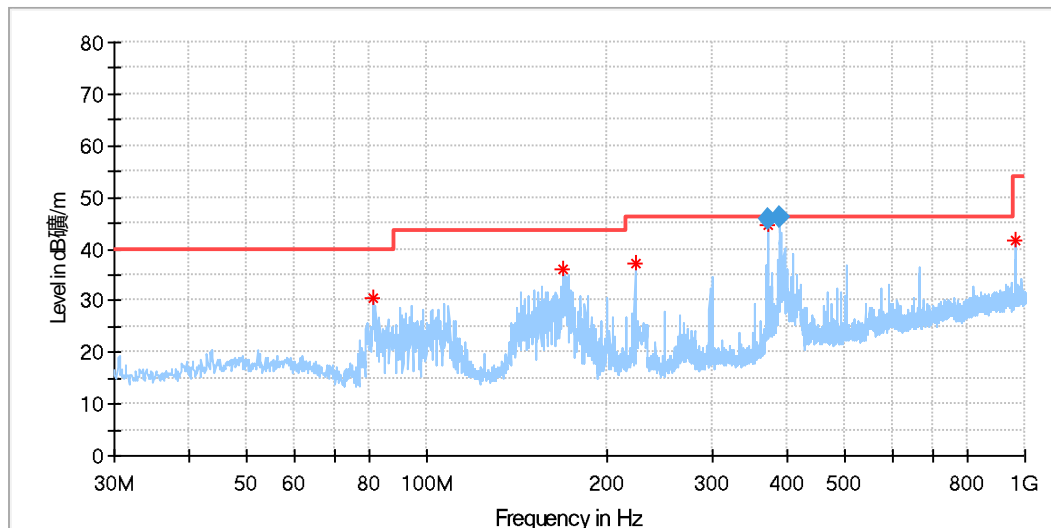
Appendix A.2: Test Plots of Radiated Emission, Below 1GHz

Note: The limit shown in the below plots are met the CLASS B device, which also meet the limit of CLASS A device.

Normal operation + LAN + BNC Terminal + Wi-Fi attached

EUT Information

EUT Name:	Thermal Camera
Order No:	168393917
Model:	M6T25
Test Mode:	Normal operation+LAN
Test Voltage:	DC 12V
Test Standard:	FCC Part 15
Test By:/Review By:	Shower Dai / Gary Chen
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

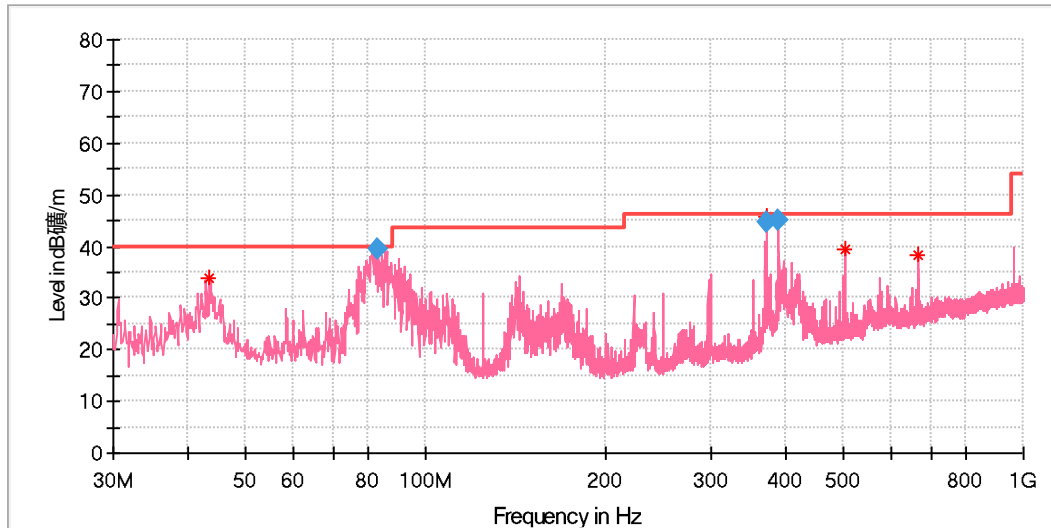
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
81.119000	30.50	40.00	9.50	200.0	H	0.0	15.6
168.710000	36.02	43.50	7.49	200.0	H	192.0	21.6
222.739000	37.16	46.00	8.84	200.0	H	0.0	18.7
371.263000	44.70	46.00	1.30	100.0	H	35.0	22.9
389.853000	46.30	46.00	-0.30	100.0	H	35.0	22.8
965.274000	41.74	54.00	12.26	100.0	H	242.0	32.0

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)
371.263000	45.63	46.00	0.37	1000.0	120.000	100.0	H	35.0	22.9
389.853000	45.97	46.00	0.03	1000.0	120.000	100.0	H	35.0	22.8

EUT Information

EUT Name: Thermal Camera
 Order No: 168393917
 Model: M6T25
 Test Mode: Normal operation+LAN
 Test Voltage: DC 12V
 Test Standard: FCC Part 15
 Test By:/Review By: Shower Dai / Gary Chen
 Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
 Remark: 3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.483000	33.73	40.00	6.27	200.0	V	91.0	20.4
82.905000	39.89	40.00	0.11	100.0	V	244.0	15.4
371.263000	45.90	46.00	0.10	200.0	V	27.0	22.9
389.853000	45.20	46.00	0.80	100.0	V	164.0	22.8
504.039000	39.52	46.00	6.48	100.0	V	289.0	25.6
668.260000	38.20	46.00	7.80	100.0	V	51.0	28.1

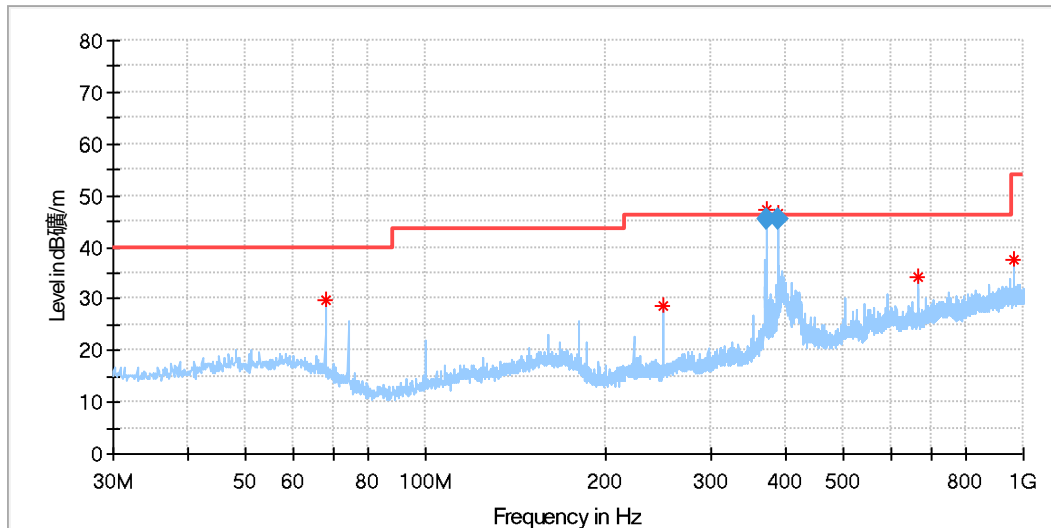
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
82.905000	39.29	40.00	0.71	1000.0	120.000	100.0	V	244.0	15.4
371.263000	44.78	46.00	1.22	1000.0	120.000	200.0	V	27.0	22.9
389.853000	44.93	46.00	1.07	1000.0	120.000	100.0	V	164.0	22.8

Normal operation + Wi-Fi + BNC Terminal

EUT Information

EUT Name: Thermal Camera
 Order No: 168393917
 Model: M6T25
 Test Mode: Normal operation+WIFI
 Test Voltage: DC 12V
 Test Standard: FCC Part 15
 Test By:/Review By: Shower Dai / Gary Chen
 Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
 Remark: 3m chamber



Critical Freqs

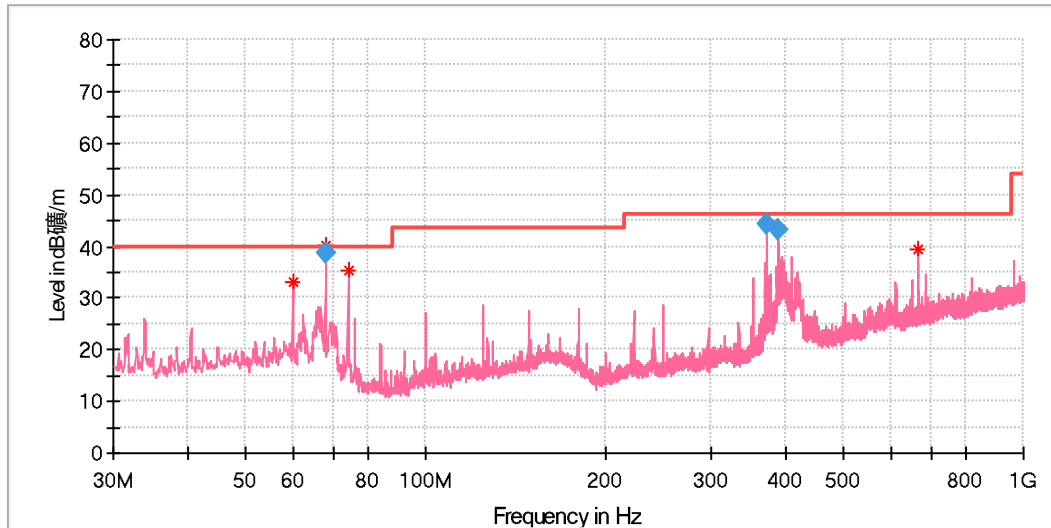
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
67.927000	29.63	40.00	10.37	200.0	H	116.0	19.1
249.996000	28.53	46.00	17.47	100.0	H	156.0	18.9
371.286000	47.29	46.00	-1.29	200.0	H	240.0	22.9
389.853000	46.39	46.00	-0.39	100.0	H	24.0	22.8
668.260000	34.17	46.00	11.83	100.0	H	149.0	28.1
965.274000	37.69	54.00	16.31	100.0	H	243.0	32.0

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)
371.286000	45.31	46.00	0.69	1000.0	120.000	200.0	H	240.0	22.9
389.853000	45.58	46.00	0.42	1000.0	120.000	100.0	H	24.0	22.8

EUT Information

EUT Name:	Thermal Camera
Order No:	168393917
Model:	M6T25
Test Mode:	Normal operation+WIFI
Test Voltage:	DC 12V
Test Standard:	FCC Part 15
Test By:/Review By:	Shower Dai / Gary Chen
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.973000	33.03	40.00	6.97	100.0	V	0.0	20.9
68.007000	40.01	40.00	-0.01	200.0	V	92.0	19.1
74.232000	35.44	40.00	4.56	100.0	V	173.0	17.0
371.286000	44.50	46.00	1.50	100.0	V	298.0	22.9
389.830000	43.42	46.00	2.58	100.0	V	79.0	22.8
668.357000	39.51	46.00	6.49	100.0	V	0.0	28.1

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)
68.007000	38.79	40.00	1.21	1000.0	120.000	200.0	V	92.0	19.1
371.286000	44.26	46.00	1.74	1000.0	120.000	100.0	V	298.0	22.9
389.830000	43.19	46.00	2.81	1000.0	120.000	100.0	V	79.0	22.8

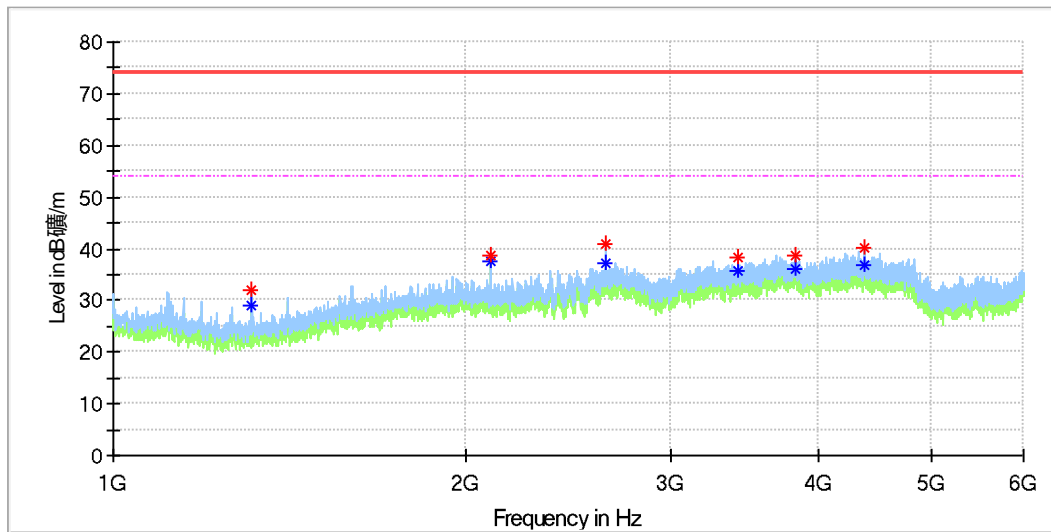
Appendix A.3: Test Plots of Radiated Emission, Above 1GHz

Note1: Testing was carried out within frequency range 30MHz to the 5th harmonics. The measurement results above 6GHz were greater than 20dB below the limit, so only record the test result within the 30MHz to 6GHz.
Note2: The limit shown in the below plots are met the CLASS B, which also meet the limit of CLASS A.

Normal operation + LAN + BNC Terminal + Wi-Fi attached

EUT Information

EUT Name:	Thermal Camera
Order No:	168393917
Model:	M6T25
Test Mode:	Normal operation+LAN
Test Voltage:	DC 12V
Test Standard:	FCC Part 15
Test By:/Review By:	Shower Dai / Gary Chen
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber

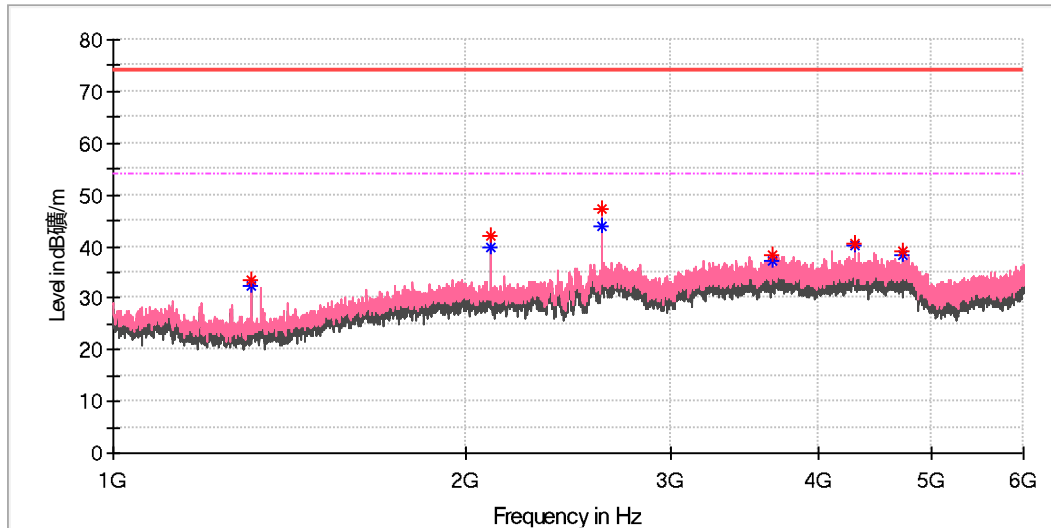


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1314.000000	---	28.87	54.00	25.13	100.0	H	178.0	-13.5
1314.500000	32.05	---	74.00	41.95	100.0	H	178.0	-13.5
2105.500000	---	37.57	54.00	16.43	100.0	H	28.0	-7.5
2105.500000	38.83	---	74.00	35.17	100.0	H	28.0	-7.5
2632.500000	---	37.35	54.00	16.65	100.0	H	318.0	-3.5
2632.500000	40.85	---	74.00	33.15	100.0	H	318.0	-3.5
3419.000000	---	35.91	54.00	18.09	100.0	H	238.0	-1.5
3419.000000	38.43	---	74.00	35.57	100.0	H	238.0	-1.5
3825.500000	---	36.17	54.00	17.83	100.0	H	341.0	0.0
3825.500000	38.72	---	74.00	35.28	100.0	H	341.0	0.0
4391.500000	40.01	---	74.00	33.99	100.0	H	266.0	1.9
4391.500000	---	36.80	54.00	17.20	100.0	H	266.0	1.9

EUT Information

EUT Name: Thermal Camera
 Order No: 168393917
 Model: M6T25
 Test Mode: Normal operation+LAN
 Test Voltage: DC 12V
 Test Standard: FCC Part 15
 Test By:/Review By: Shower Dai / Gary Chen
 Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
 Remark: 3m chamber



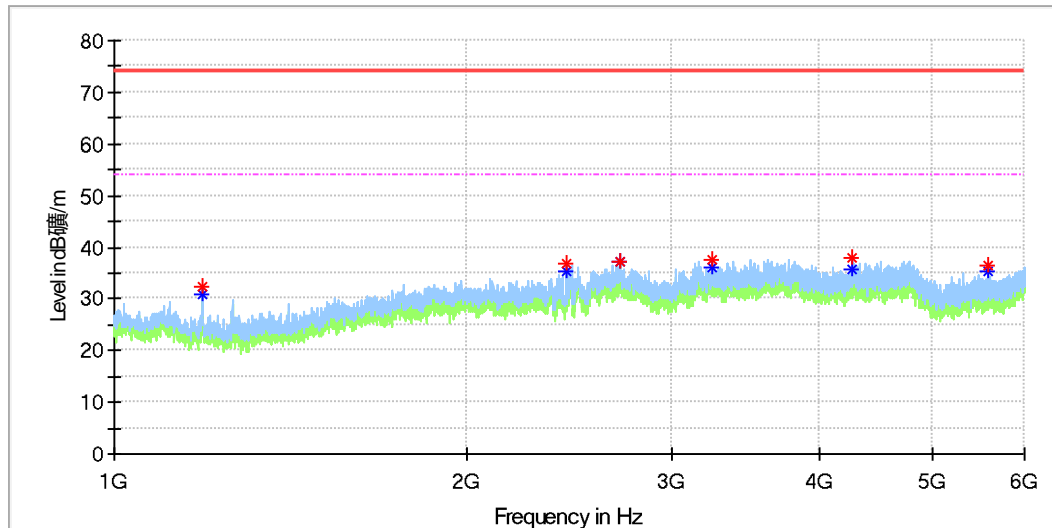
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1312.500000	---	32.46	54.00	21.54	100.0	V	346.0	-13.5
1312.500000	33.37	---	74.00	40.63	100.0	V	346.0	-13.5
2101.000000	---	39.77	54.00	14.23	100.0	V	241.0	-7.5
2101.000000	42.10	---	74.00	31.90	100.0	V	241.0	-7.5
2614.500000	---	43.81	54.00	10.19	100.0	V	114.0	-3.6
2614.500000	47.10	---	74.00	26.90	100.0	V	114.0	-3.6
3666.000000	---	37.14	54.00	16.86	100.0	V	45.0	0.0
3666.000000	38.32	---	74.00	35.68	100.0	V	45.0	0.0
4300.500000	---	40.01	54.00	13.99	100.0	V	55.0	2.3
4300.500000	40.67	---	74.00	33.33	100.0	V	55.0	2.3
4729.500000	---	38.27	54.00	15.73	100.0	V	174.0	2.8
4729.500000	39.15	---	74.00	34.85	100.0	V	174.0	2.8

Normal operation + Wi-Fi + BNC Terminal

EUT Information

EUT Name: Thermal Camera
 Order No: 168393917
 Model: M6T25
 Test Mode: Normal operation+WIFI
 Test Voltage: DC 12V
 Test Standard: FCC Part 15
 Test By:/Review By: Shower Dai / Gary Chen
 Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
 Remark: 3m chamber

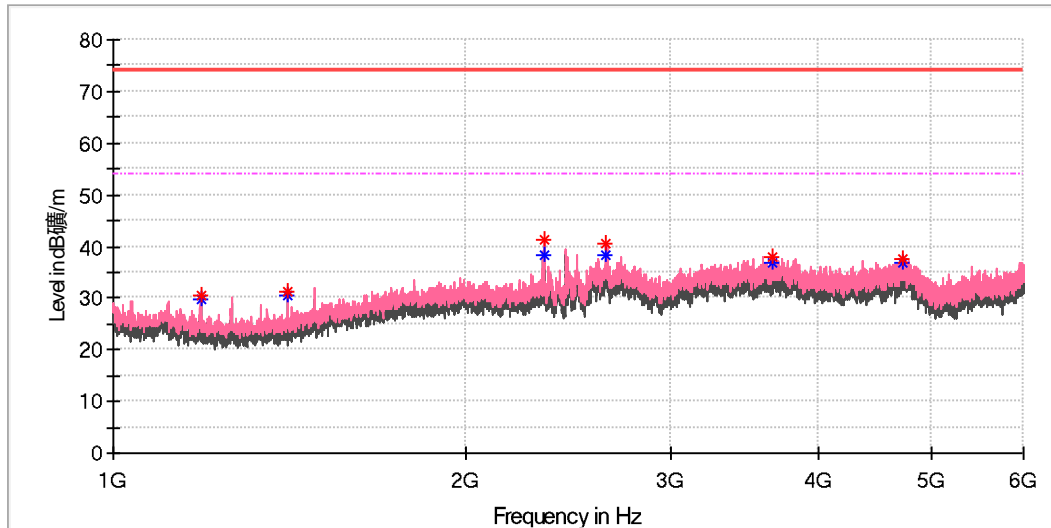


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1188.000000	---	30.87	54.00	23.13	100.0	H	200.0	-13.9
1188.000000	32.26	---	74.00	41.74	100.0	H	200.0	-13.9
2437.500000	---	35.28	54.00	18.72	100.0	H	228.0	-5.3
2437.500000	36.94	---	74.00	37.06	100.0	H	228.0	-5.3
2703.500000	---	37.02	54.00	16.98	100.0	H	297.0	-3.3
2703.500000	37.32	---	74.00	36.68	100.0	H	297.0	-3.3
3243.000000	---	36.28	54.00	17.72	100.0	H	126.0	-1.9
3243.000000	37.69	---	74.00	36.31	100.0	H	126.0	-1.9
4280.500000	---	35.81	54.00	18.19	100.0	H	8.0	2.1
4280.500000	37.79	---	74.00	36.21	100.0	H	8.0	2.1
5594.500000	---	35.46	54.00	18.54	100.0	H	144.0	0.9
5594.500000	36.62	---	74.00	37.38	100.0	H	144.0	0.9

EUT Information

EUT Name: Thermal Camera
 Order No: 168393917
 Model: M6T25
 Test Mode: Normal operation+WIFI
 Test Voltage: DC 12V
 Test Standard: FCC Part 15
 Test By:/Review By: Shower Dai / Gary Chen
 Tem./Hum./Pressure: 24.3°C/51.6%/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)
1187.500000	---	29.78	54.00	24.22	100.0	V	86.0	-13.9
1187.500000	30.44	---	74.00	43.56	100.0	V	86.0	-13.9
1411.000000	---	30.66	54.00	23.34	100.0	V	131.0	-13.0
1411.000000	31.24	---	74.00	42.76	100.0	V	131.0	-13.0
2334.500000	41.36	---	74.00	32.64	100.0	V	82.0	-6.4
2335.000000	---	38.48	54.00	15.52	100.0	V	82.0	-6.4
2640.500000	---	38.42	54.00	15.58	100.0	V	86.0	-3.3
2640.500000	40.65	---	74.00	33.35	100.0	V	86.0	-3.3
3660.500000	---	36.86	54.00	17.14	100.0	V	293.0	-0.1
3660.500000	37.98	---	74.00	36.02	100.0	V	293.0	-0.1
4731.500000	---	36.77	54.00	17.23	100.0	V	77.0	2.8
4731.500000	37.57	---	74.00	36.43	100.0	V	77.0	2.8