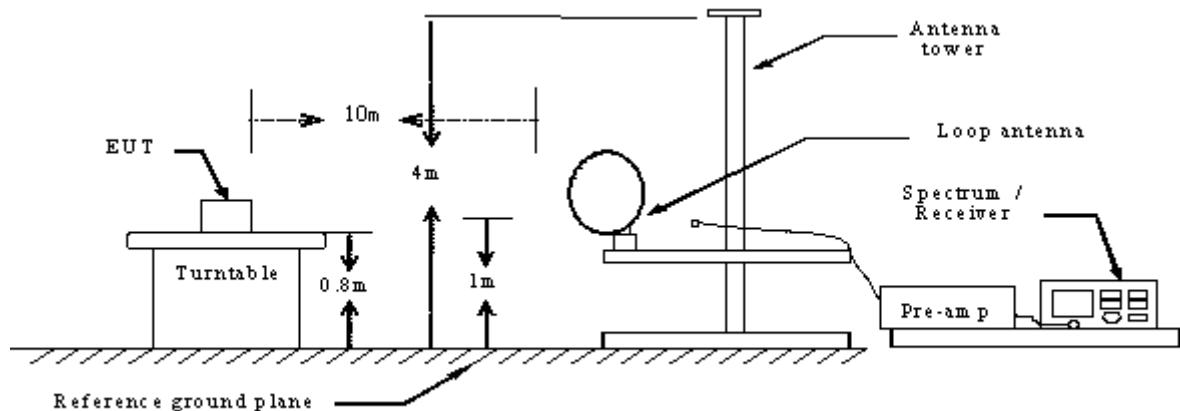


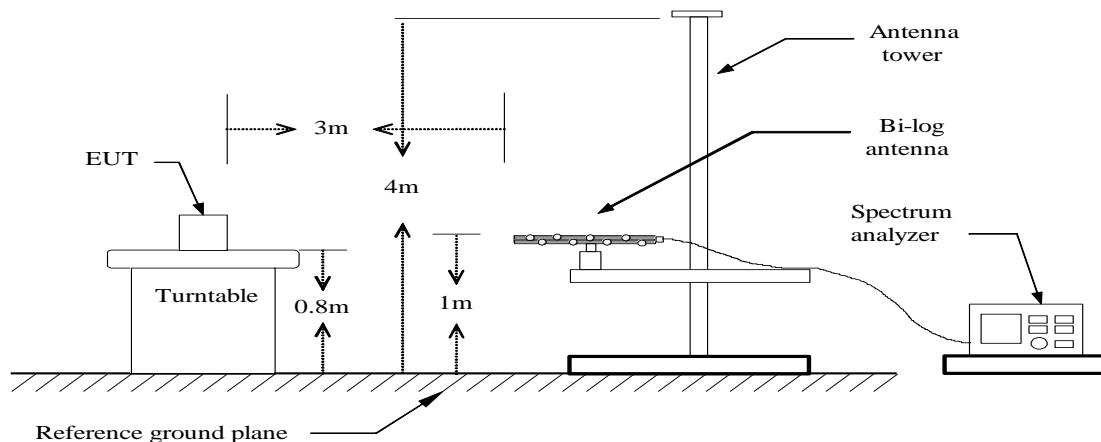
## 10. SPURIOUS EMISSIONS (RADIATION)

### 10.1 TEST SETUP

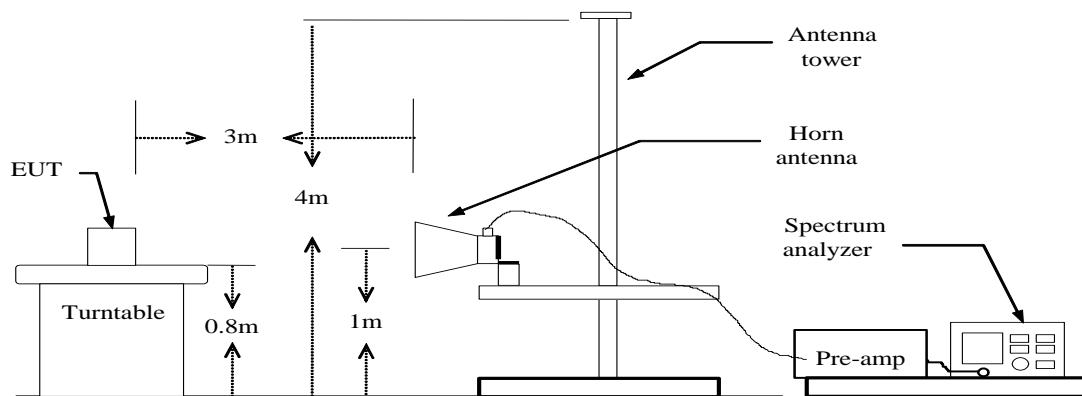
Radiated Spurious Measurement: below 30MHz



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



## 10.2 LIMITS

Frequency (MHz)	Limits (dB $\mu$ V/m)	Measured distance (m)
0.009-0.490	107.6-72.9	10
0.490-1.705	52.8-42.1	
1.705-30.0	49	
30~88	40	
88~216	43.5	
216-960	46	
Above 960	54	3

Notes: the calculate formula for below 30MHz

$$L2 = 20\lg(L1) + 40\lg(d1/d2)$$

L2: is the specified limit in dB microvolts per metre at distance d2.

L1: is the specified limit in microvolts per metre at distance d1.

For example:

$L1 = 2400/9 \text{ } (\mu\text{V/m})$ ,  $d1 = 300 \text{ (m)}$ ,  $d2 = 10 \text{ (m)}$ , so L2 as follows:

$$20\lg(2400/9) + 40\lg(300/10) = 107.6 \text{ (dB}\mu\text{V/m)}$$

## 10.3 TEST PROCEDURE

### Radiated Emission ( 9 kHz – 30 MHz) :

Spurious emissions from the EUT are measured in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EUT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions. The emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz.

### Radiated Emission ( 30 MHz – 1000 MHz) :

According to description of ANSI C63.4: 2009 sec.13.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements. The measurement is carried out using a spectrum analyzer or receiver. The Quasi-peak detector is used and RBW is set to 120kHz .The antenna height and turn table rotation is adjusted until the maximum power value is founded on spectrum analyzer or receiver.

**Radiated Emission (Above 1 GHz) :**

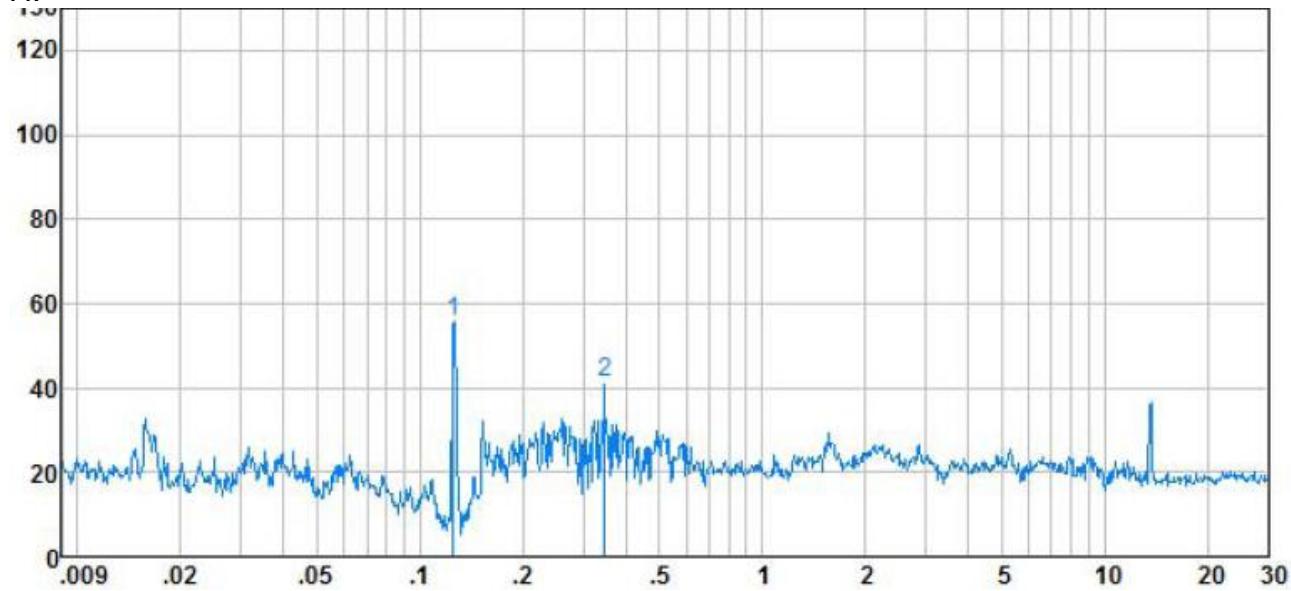
According to description of ANSI C63.4: 2009 sec.13.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements. The measurement is carried out using a spectrum analyzer or receiver. The spectrum analyzer scans from 1GHz to 25GHz (higher than the 10<sup>th</sup> harmonic of the carrier). The peak detector is used for Peak limit and RBW is set to 1MHz ,VBW  $\geq$  3RBW. The peak detector is used for Average limit and RBW is set to 1MHz ,VBW is not smaller than 1/T, T = to the shortest pulse width. The antenna height and turn table rotation is adjusted until the maximum power value is founded on spectrum analyzer or receiver.

## 10.4 RESULTS & PERFORMANCE

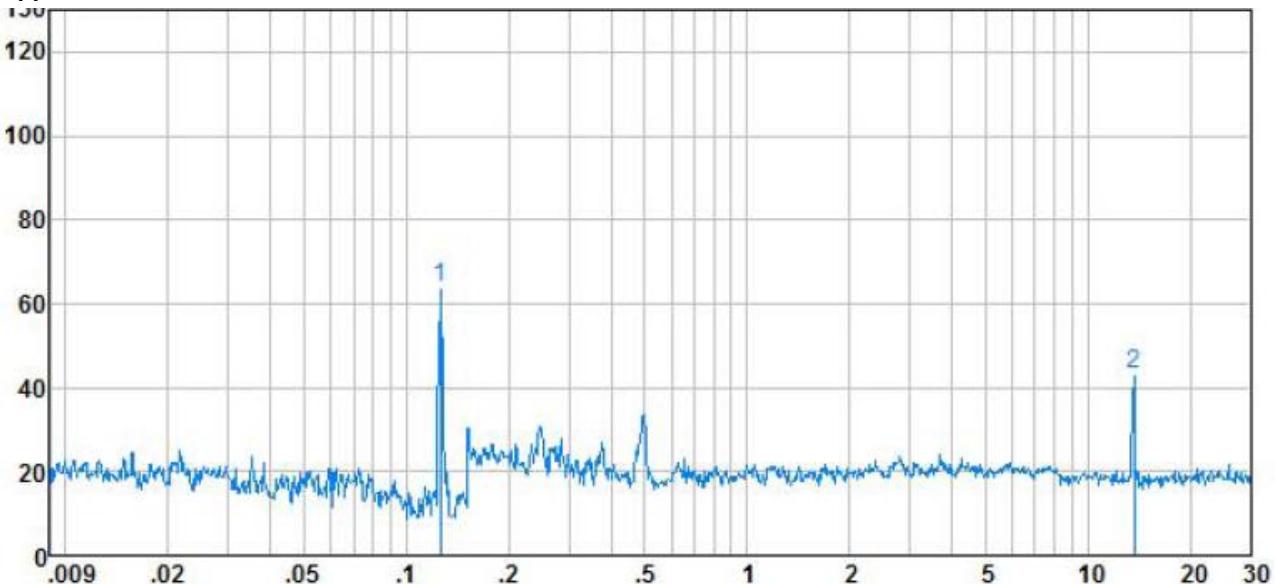
### From 9KHz to 30MHz:

802.11b, traffic mode; Channel 1

H:



V:



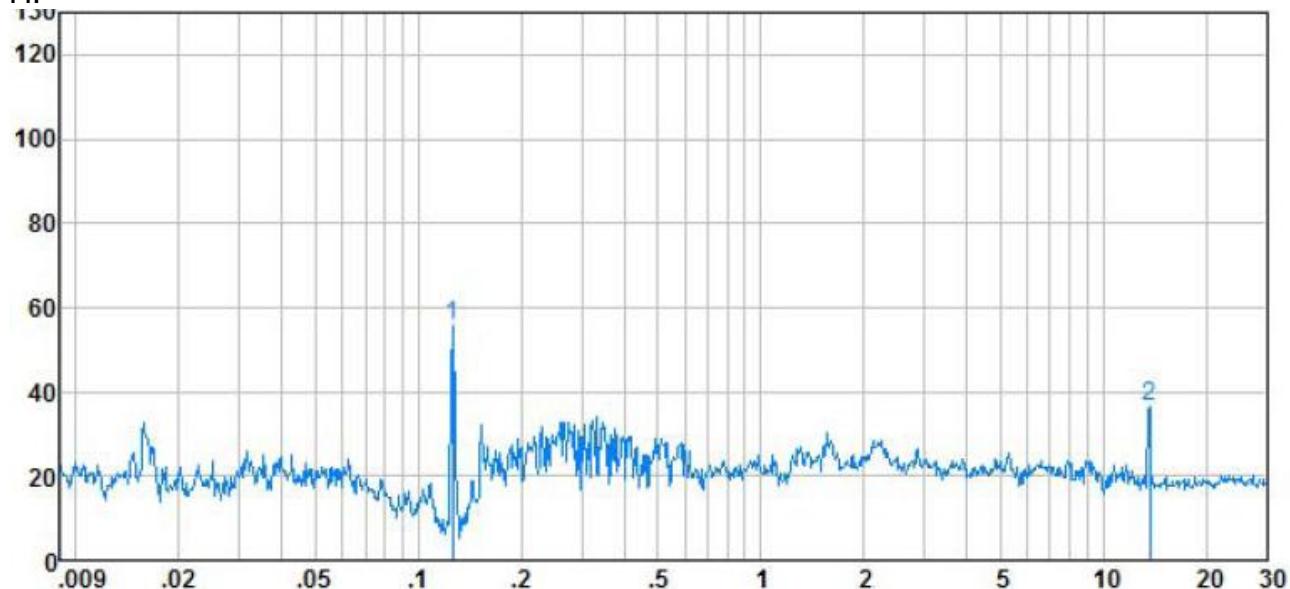
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	35.86	19.53	55.39	84.41	-29.02	Peak
0.13	V	43.39	19.66	63.05	84.41	-21.36	Peak
0.35	H	23.33	18.14	41.47	76.56	-35.09	Peak
13.66	V	27.76	15.25	43.01	49.08	-6.07	Peak

H: Horizontal V: Vertical

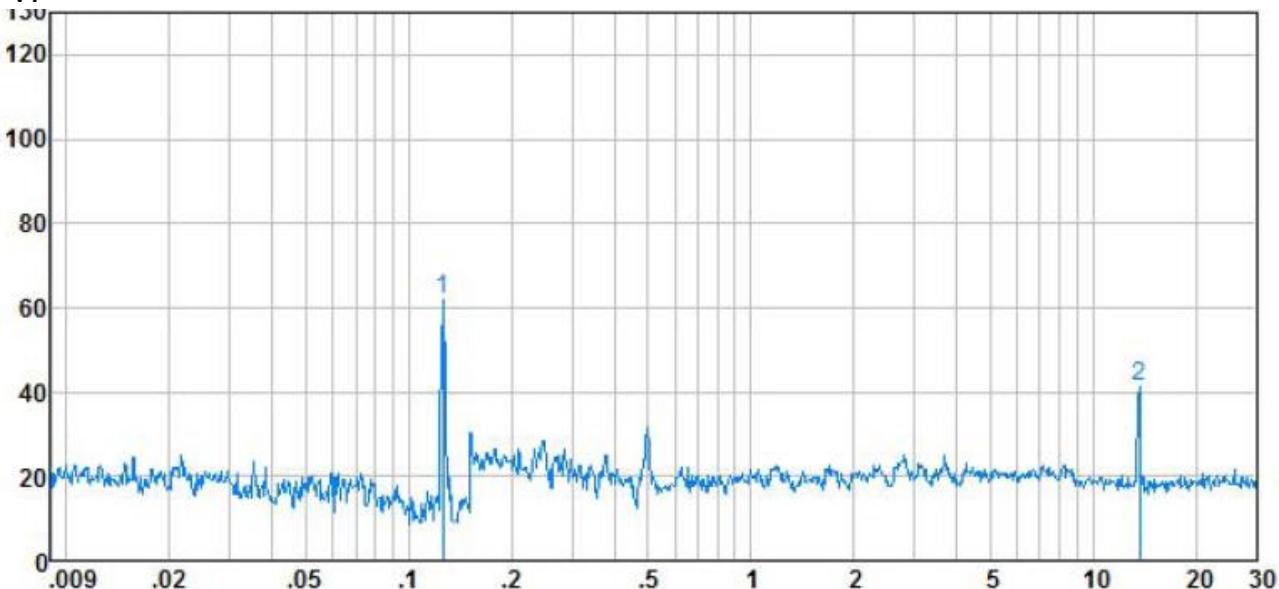
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11b, traffic mode; Channel 7

H:



V:



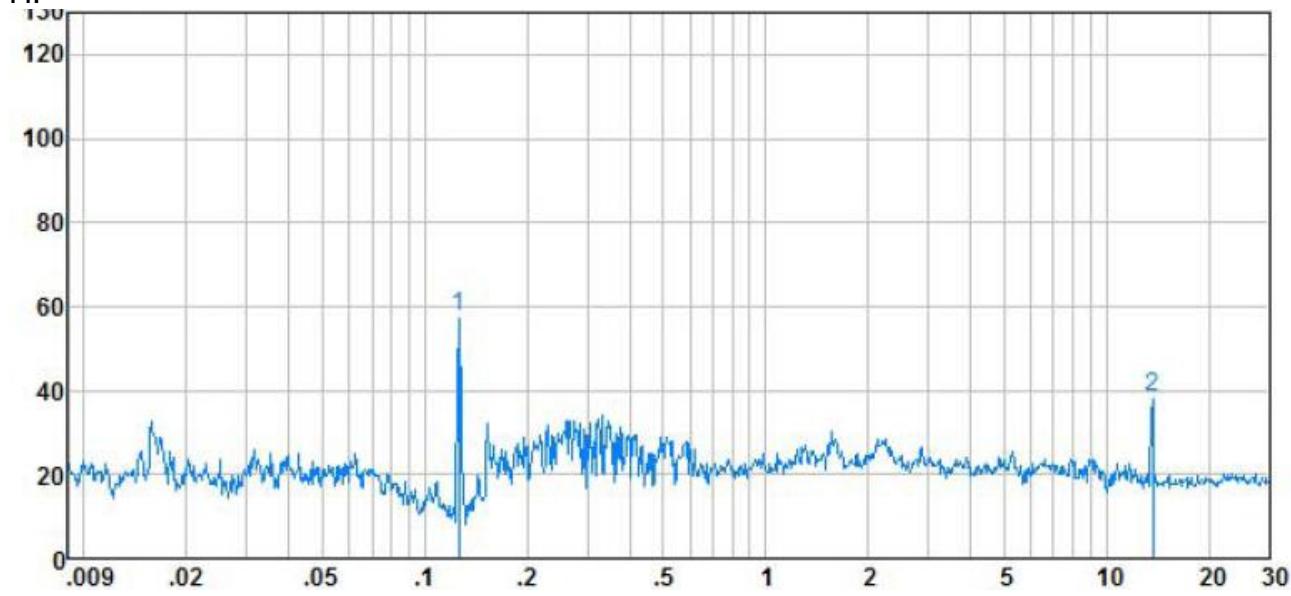
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	36.19	19.53	55.72	84.41	-28.69	Peak
0.13	V	42.17	19.66	61.83	84.41	-22.58	Peak
13.66	H	21.98	15.28	37.26	49.08	-11.82	Peak
13.66	V	25.74	15.25	40.99	49.08	-8.09	Peak

H: Horizontal V: Vertical

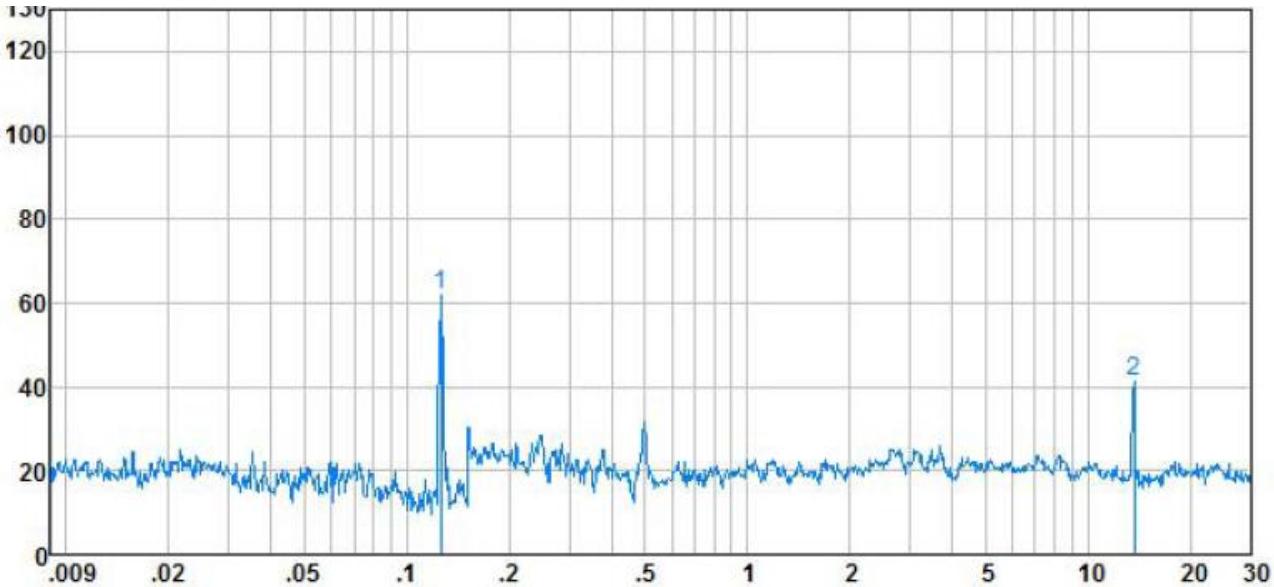
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11b, traffic mode; Channel 13

H:



V:



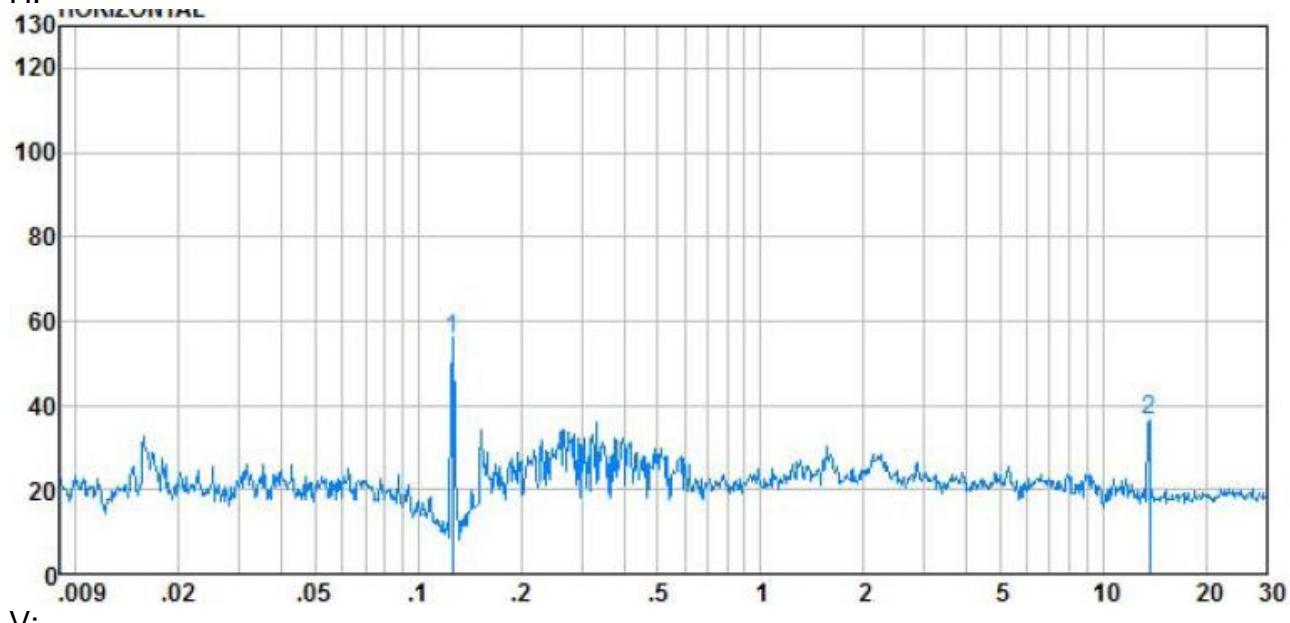
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	42.13	19.53	61.66	84.41	-22.75	Peak
0.13	V	42.17	19.66	61.83	84.41	-22.58	Peak
13.66	H	22.83	15.28	38.11	49.08	-10.97	Peak
13.66	V	26.48	15.25	41.73	49.08	-7.35	Peak

H: Horizontal V: Vertical

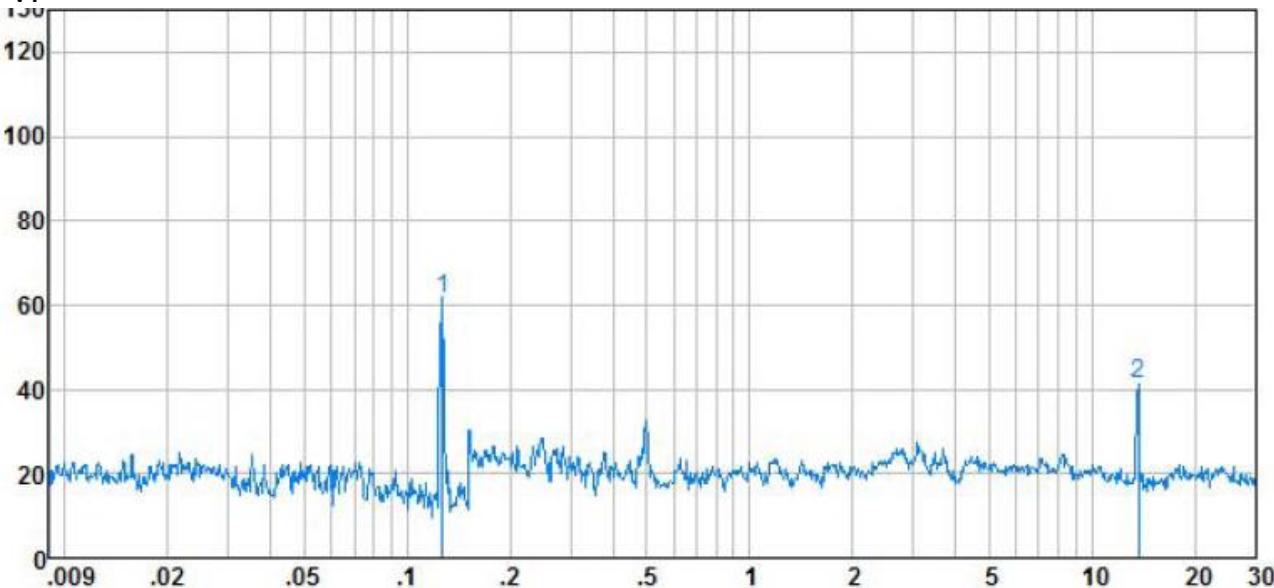
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11g, traffic mode; Channel 1

H:



V:



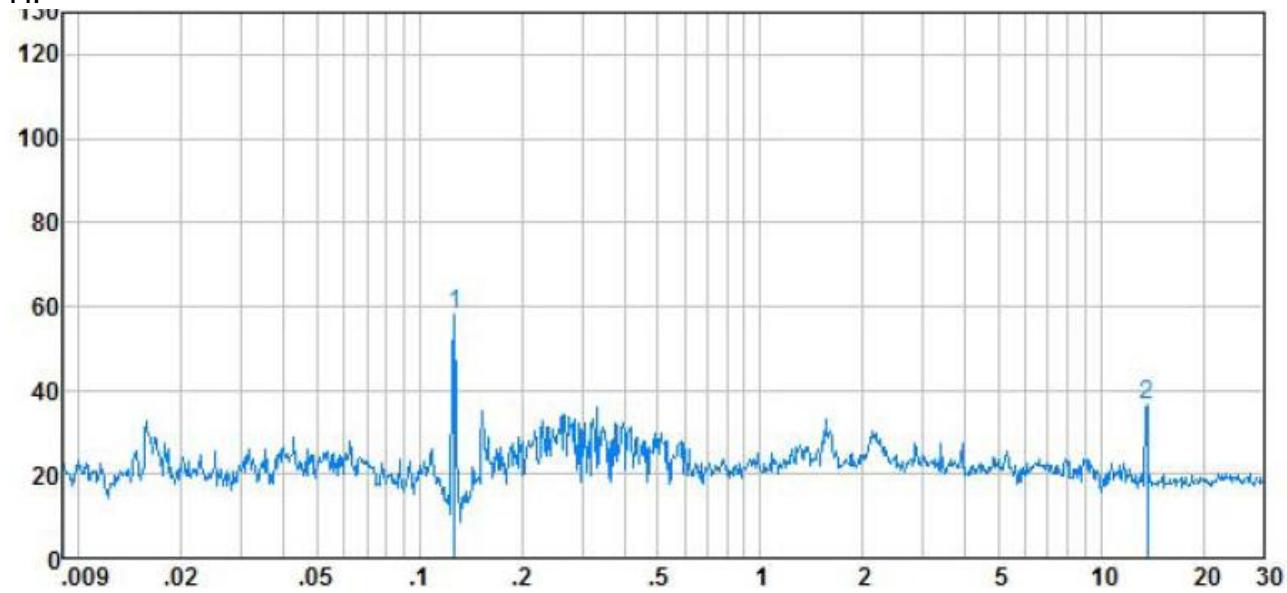
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	35.83	19.53	55.36	84.41	-29.05	Peak
0.13	V	41.93	19.66	61.59	84.41	-22.82	Peak
13.66	H	20.96	15.28	36.24	49.08	-12.84	Peak
13.66	V	26.19	15.25	41.44	49.08	-7.64	Peak

H: Horizontal V: Vertical

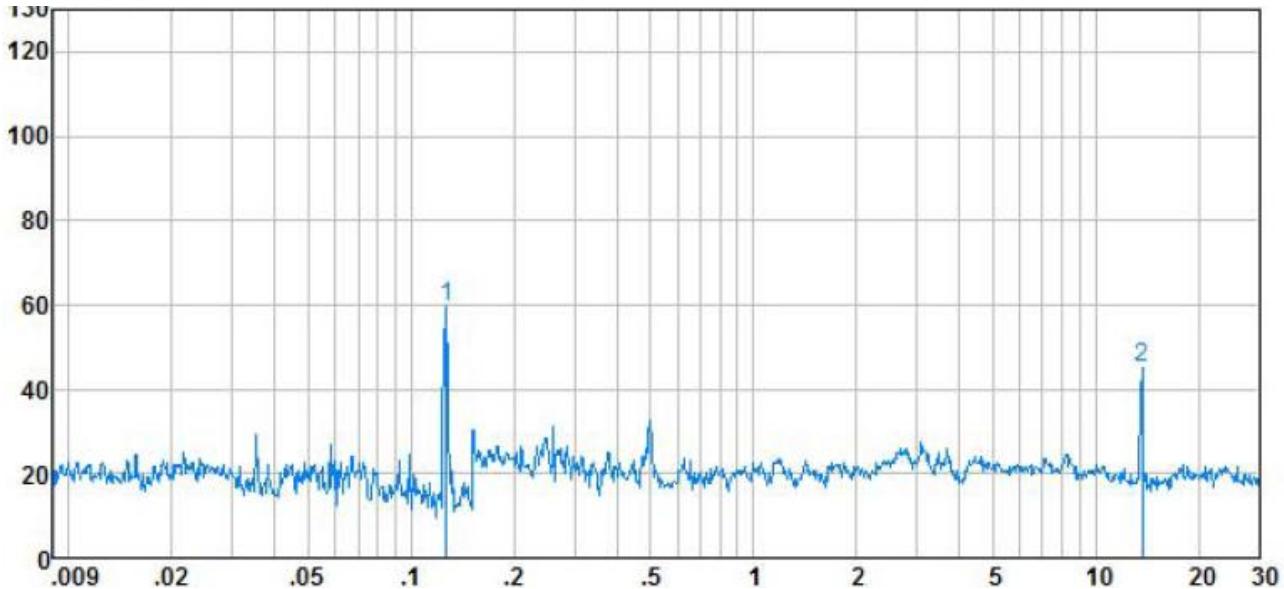
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11g, traffic mode; Channel 7

H:



V:



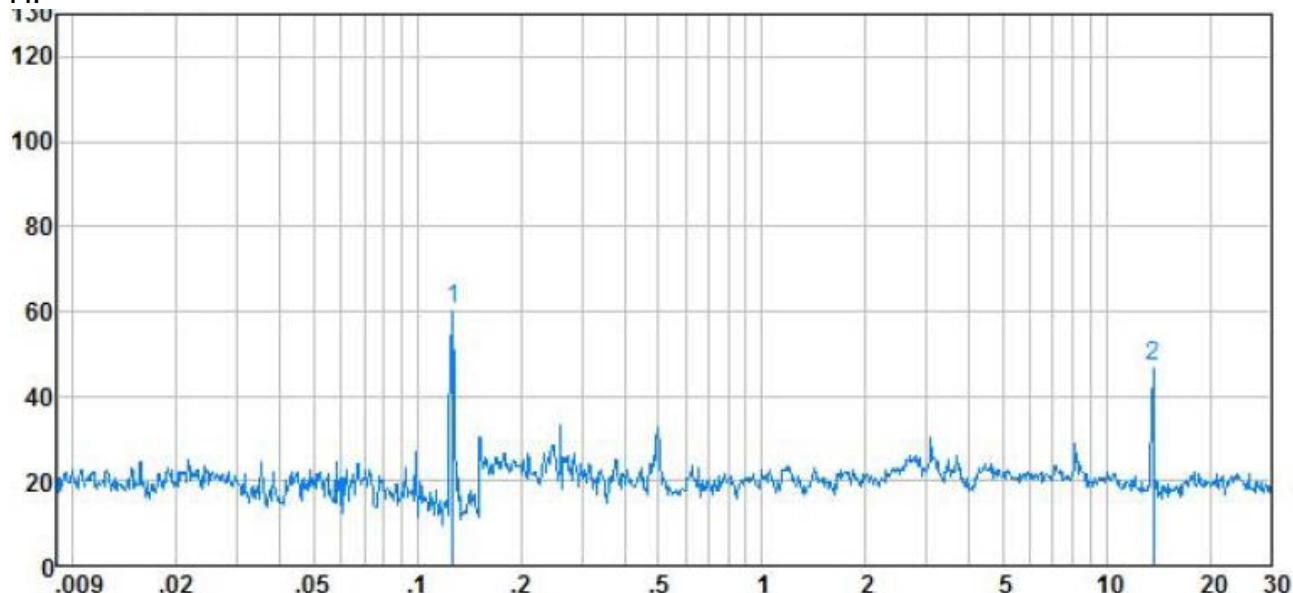
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	38.72	19.53	58.25	84.41	-26.16	Peak
0.13	V	39.85	19.66	59.51	84.41	-24.90	Peak
13.66	H	20.98	15.28	36.26	49.08	-12.82	Peak
13.66	V	28.88	15.25	44.13	49.08	-4.95	Peak

H: Horizontal V: Vertical

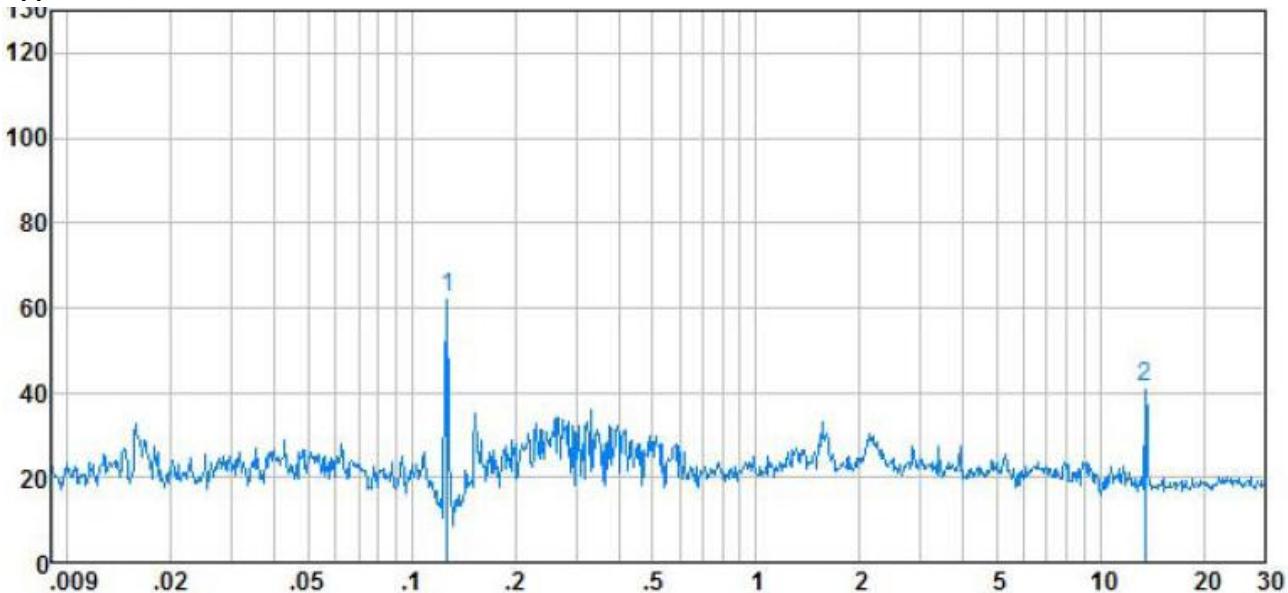
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11g, traffic mode; Channel 13

H:



V:



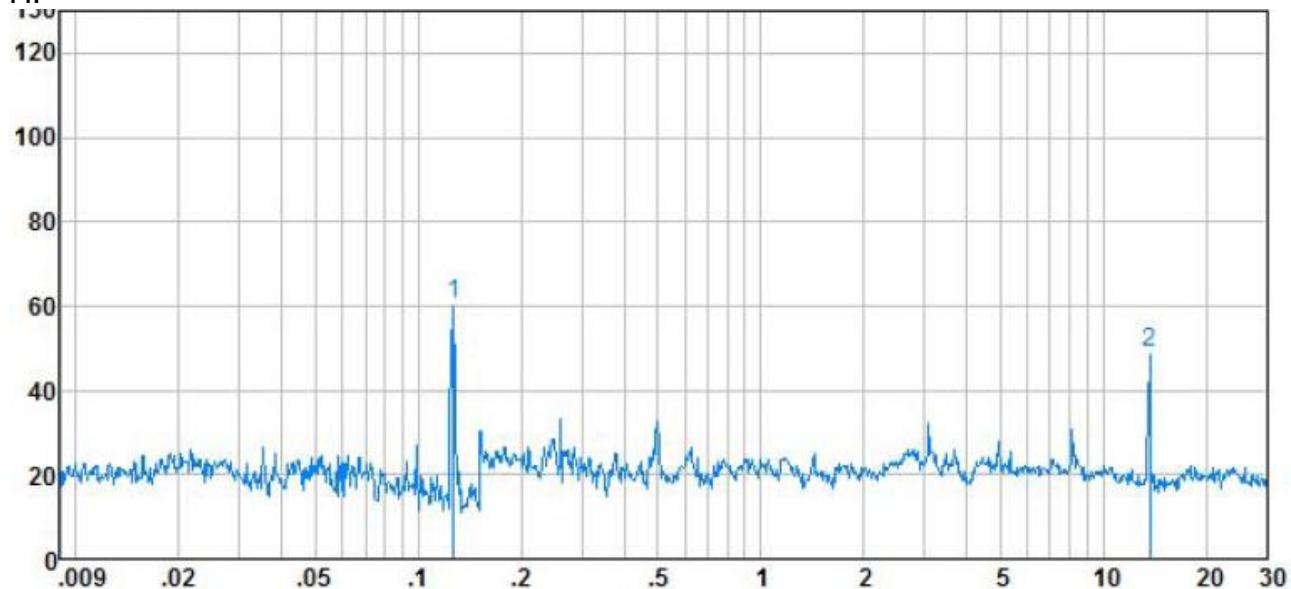
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	40.88	19.53	60.41	84.41	-24.00	Peak
0.13	V	42.70	19.66	62.36	84.41	-22.05	Peak
13.66	H	29.95	15.28	45.23	49.08	-3.85	Peak
13.66	V	25.78	15.25	41.03	49.08	-8.05	Peak

H: Horizontal V: Vertical

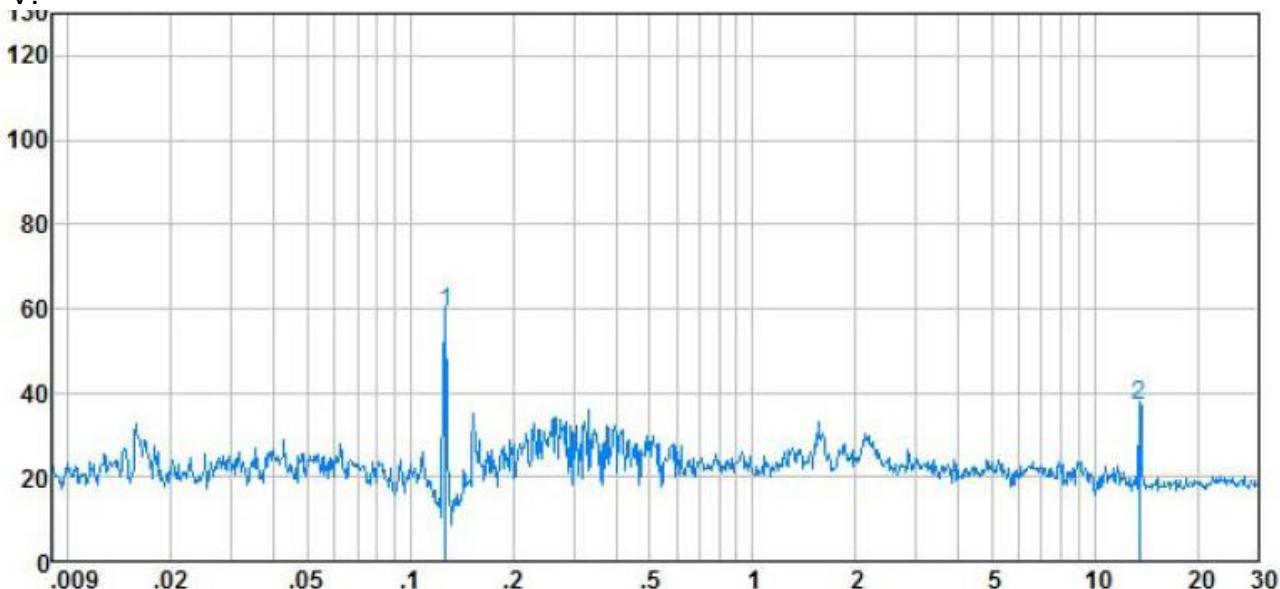
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11n, traffic mode; Channel 1

H:



V:



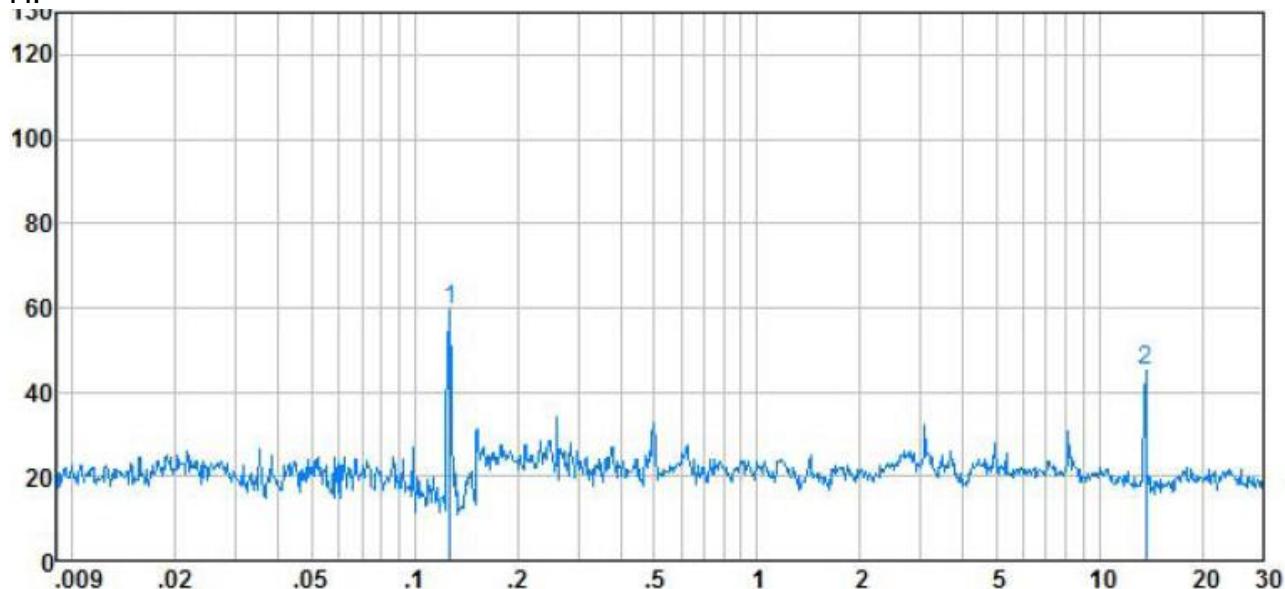
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	41.18	19.53	60.71	84.41	-23.70	Peak
0.13	V	39.39	19.66	59.05	84.41	-25.36	Peak
13.66	H	28.85	15.28	44.13	49.08	-4.95	Peak
13.66	V	21.81	15.25	37.06	49.08	-12.02	Peak

H: Horizontal V: Vertical

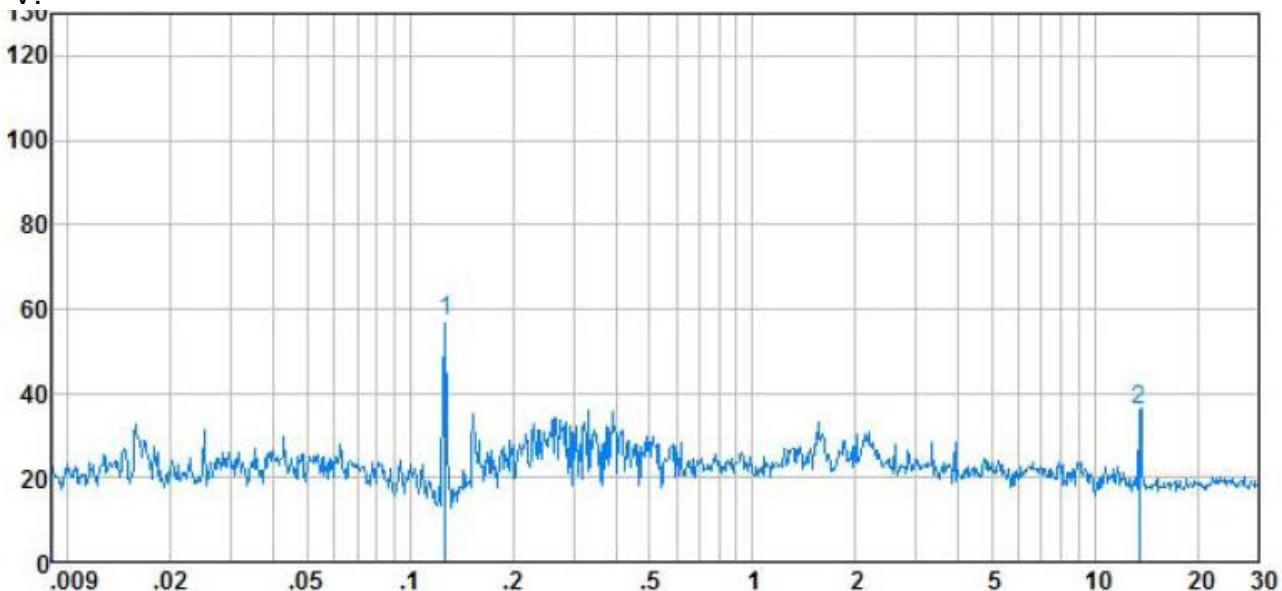
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11b, traffic mode; Channel 7

H:



V:



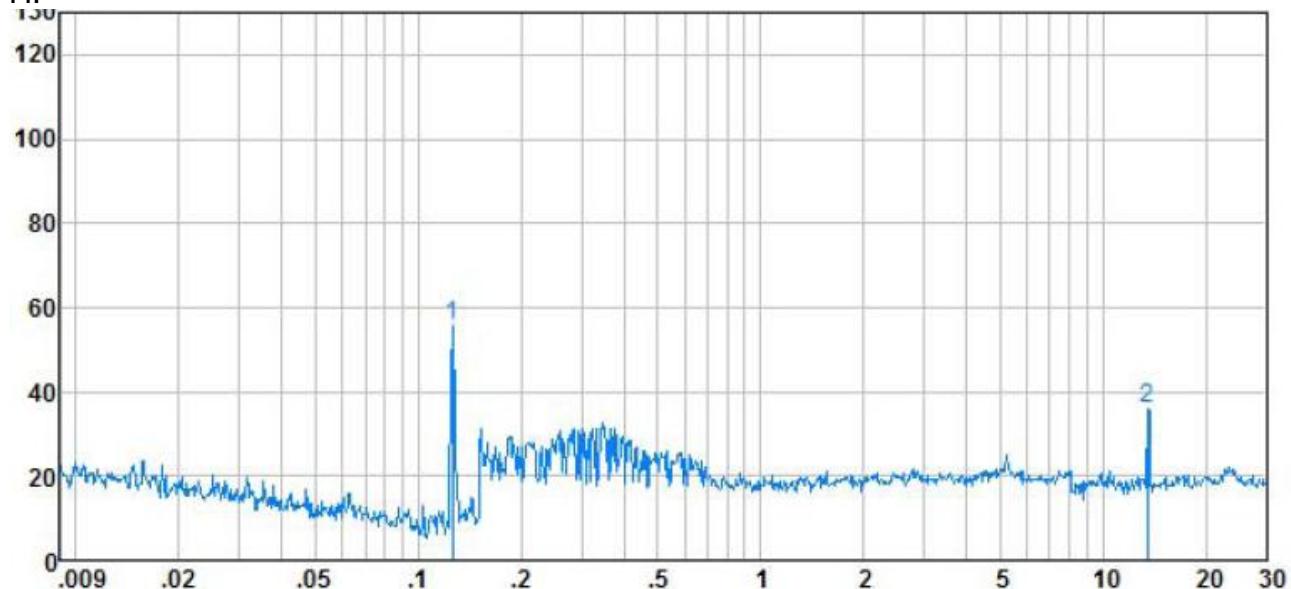
Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	39.91	19.53	59.44	84.41	-24.97	Peak
0.13	V	37.72	19.66	57.38	84.41	-27.03	Peak
13.66	H	28.90	15.28	44.18	49.08	-4.90	Peak
13.66	V	20.97	15.25	36.22	49.08	-12.86	Peak

H: Horizontal V: Vertical

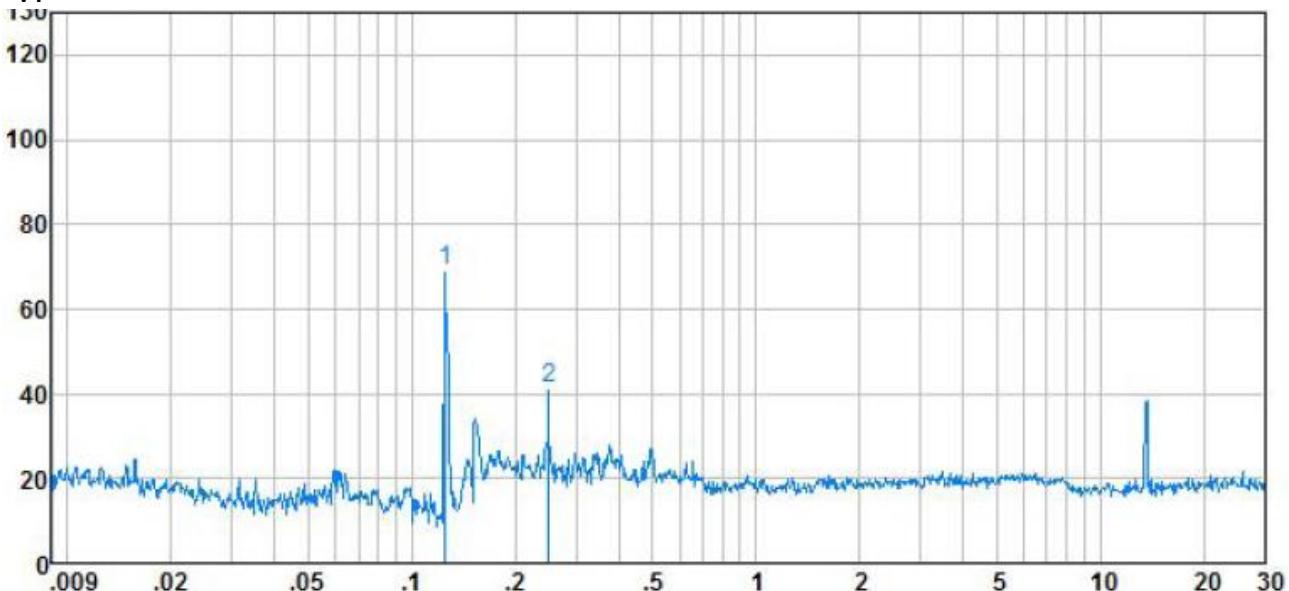
Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

802.11n, traffic mode; Channel 13

H:



V:

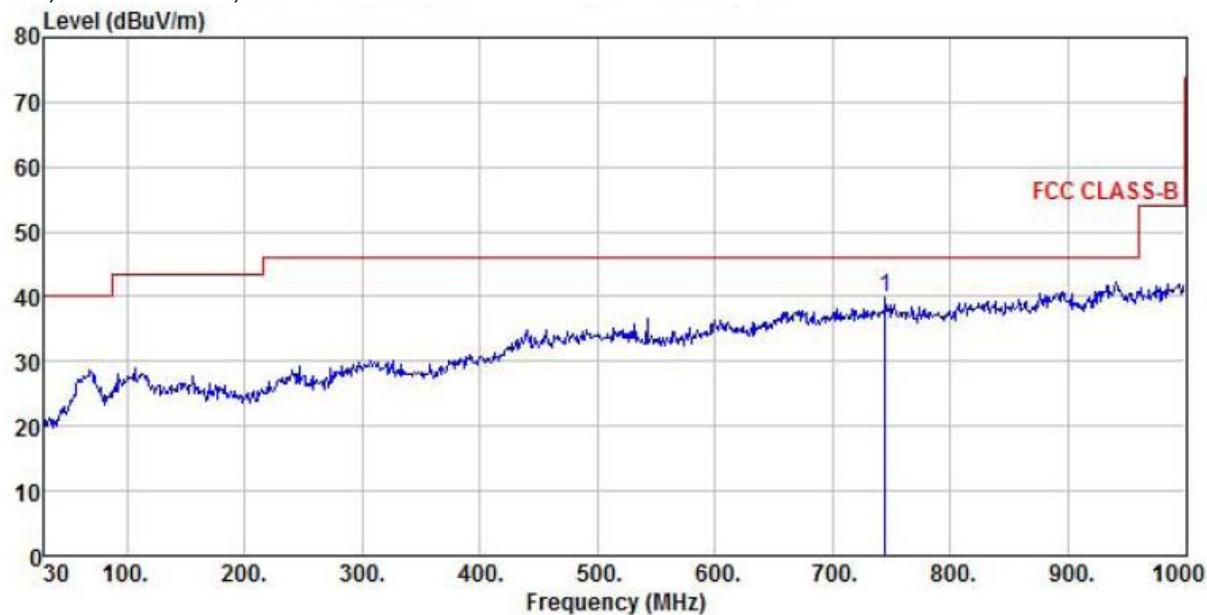


Frequency (MHz)	Polarization (H/V)	Reading (dBuV/m)	Correction Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
0.13	H	36.12	19.53	55.65	84.41	-28.76	Peak
0.13	V	49.23	19.66	68.89	84.41	-15.52	Peak
13.66	H	18.14	15.28	36.28	49.08	-12.80	Peak
0.25	V	22.94	18.43	41.37	78.73	-37.36	Peak

H: Horizontal V: Vertical

Measure Level(dBuV/m) = Reading (dBuV/m) + Correction Factor (dB/m)

**From 30MHz to 1GHz:**  
802.11b, traffic mode; Channel 1



Site : chamber

Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

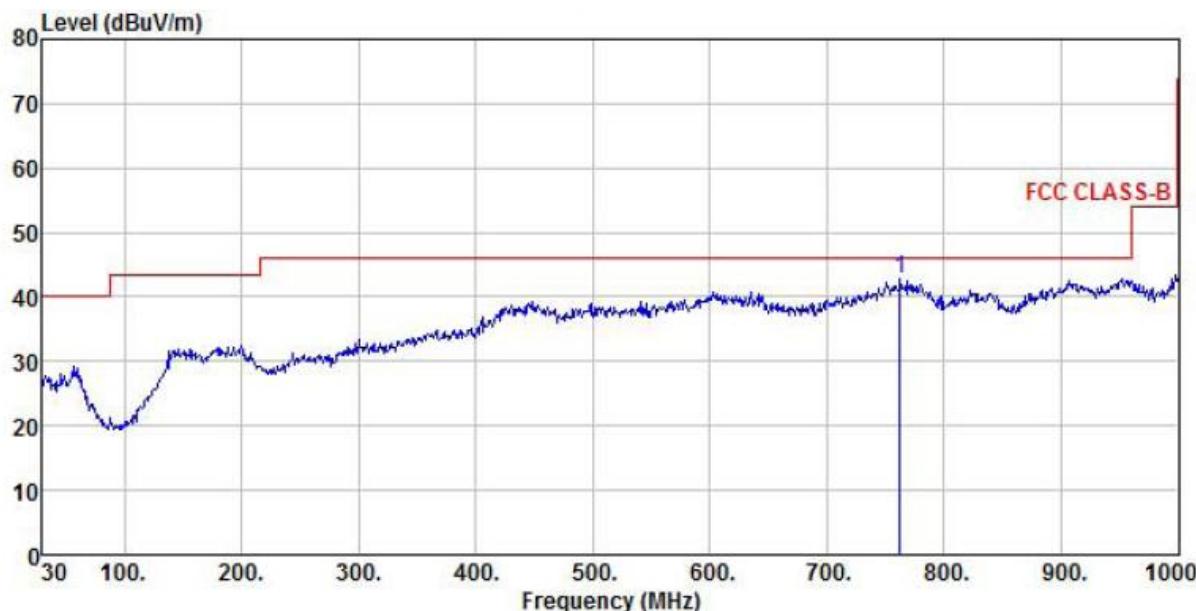
Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

Mode : wifi ch1 11b

Memo :

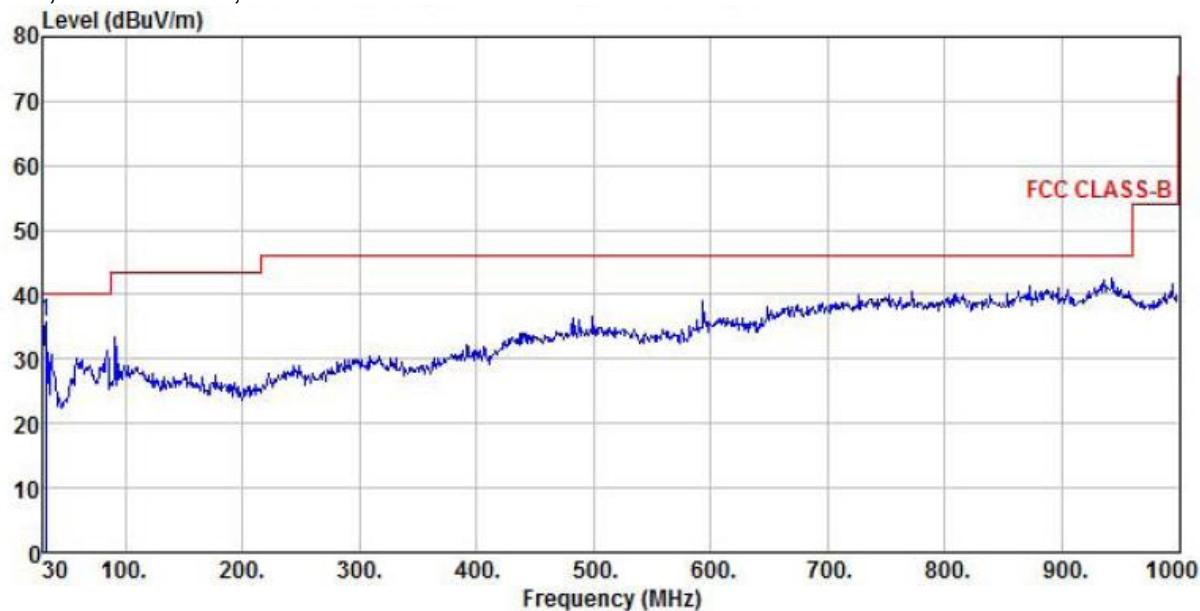
Freq	ReadAntenna		Cable Preamp		Limit Level	Line Level	Over Limit	Remark
	MHz	dBuV	Factor	Loss Factor				
1 pp	744.89	3.21	32.99	3.78	0.00	39.98	46.00	-6.02 Peak



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: DC 3.7V  
Mode : wifi ch1 11b  
Memo :

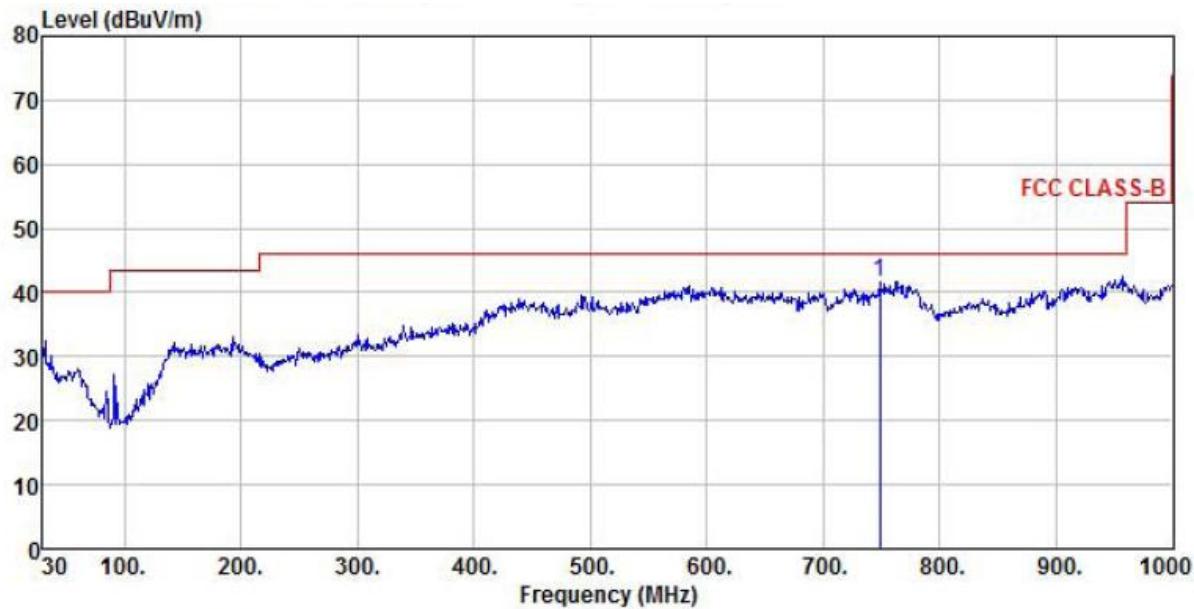
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	762.35	-1.32	40.34	3.70	0.00	42.72	46.00	-3.28 Peak

802.11b, traffic mode; Channel 7



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: DC 3.7V  
Mode : wifi ch7 11b  
Memo :

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Over Limit	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	31.94	17.04	18.01	0.70	0.00	35.75	40.00	-4.25 Peak



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

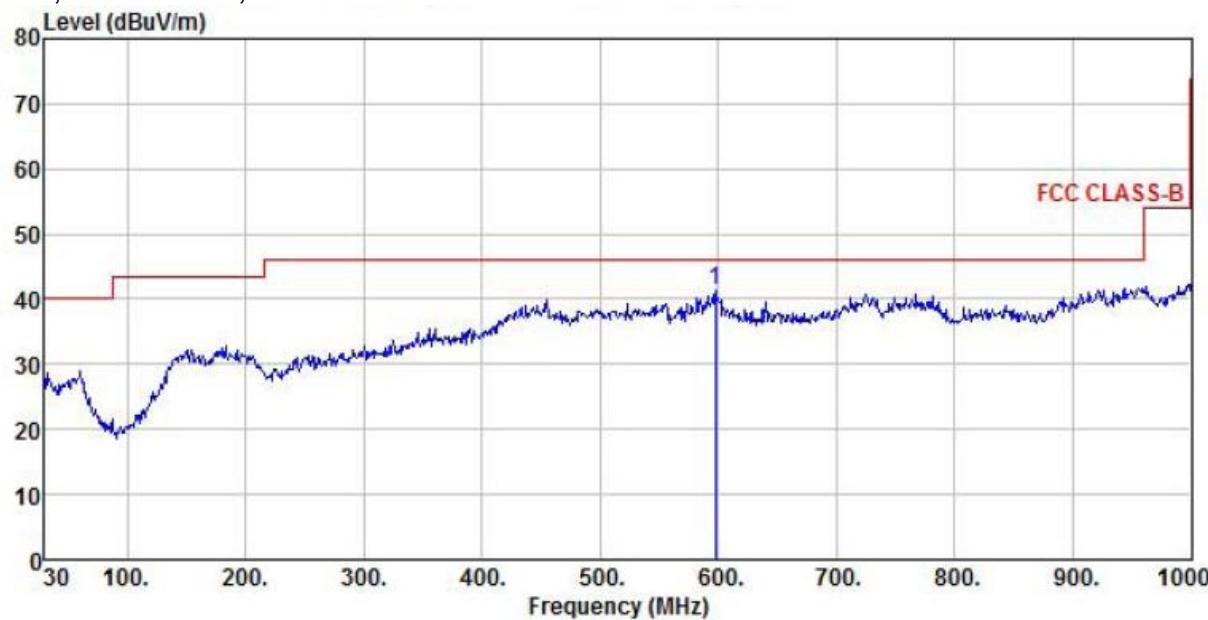
Power Rating: DC 3.7V

Mode : wifi ch7 11b

Memo :

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Remark
	MHz	dBuV	Factor	Loss				
1 pp	748.77	-2.23	40.09	3.80	0.00	41.66	46.00	-4.34 Peak

802.11b, traffic mode; Channel 13



Site : chamber

Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

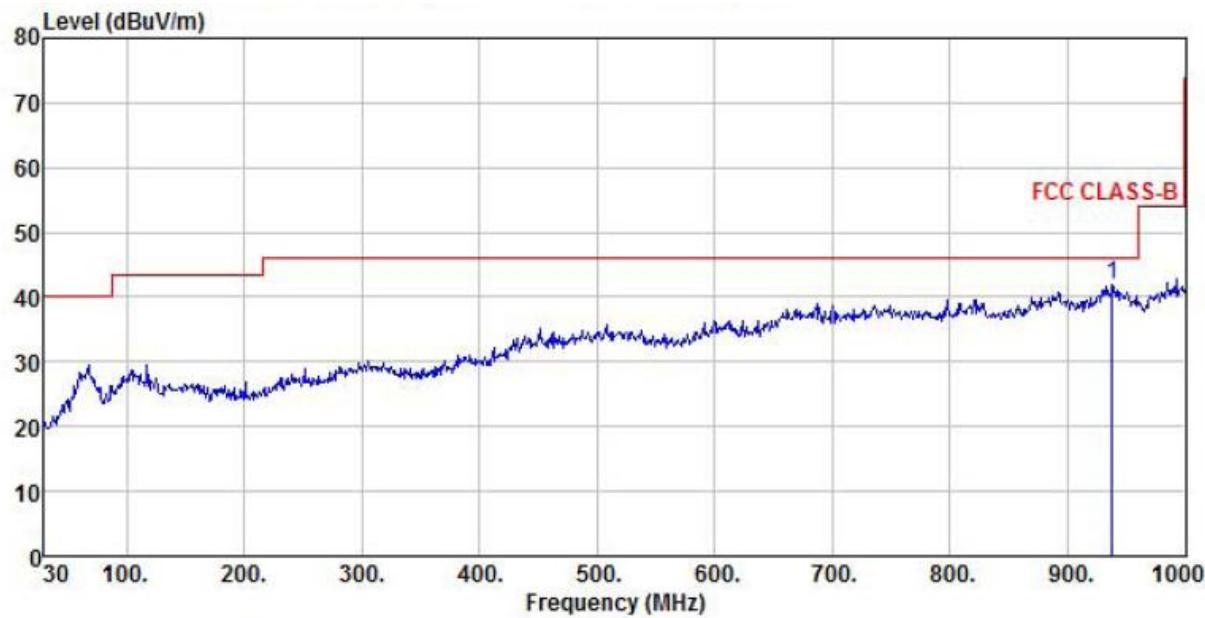
Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

Mode : wifi ch13 11b

Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	597.45	1.50	36.37	3.34	0.00	41.21	46.00 -4.79 Peak



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

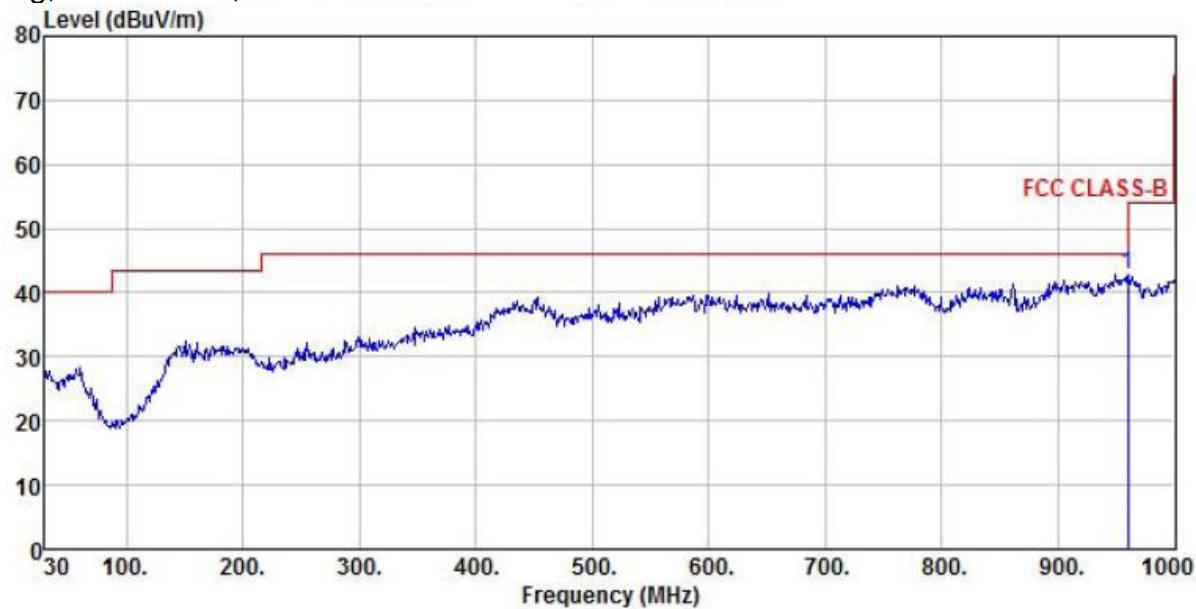
Power Rating: DC 3.7V

Mode : wifi ch13 11b

Memo :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	937.92	1.31	36.38	4.13	0.00	41.82	46.00	-4.18 Peak

802.11g, traffic mode; Channel 1



Site : chamber

Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

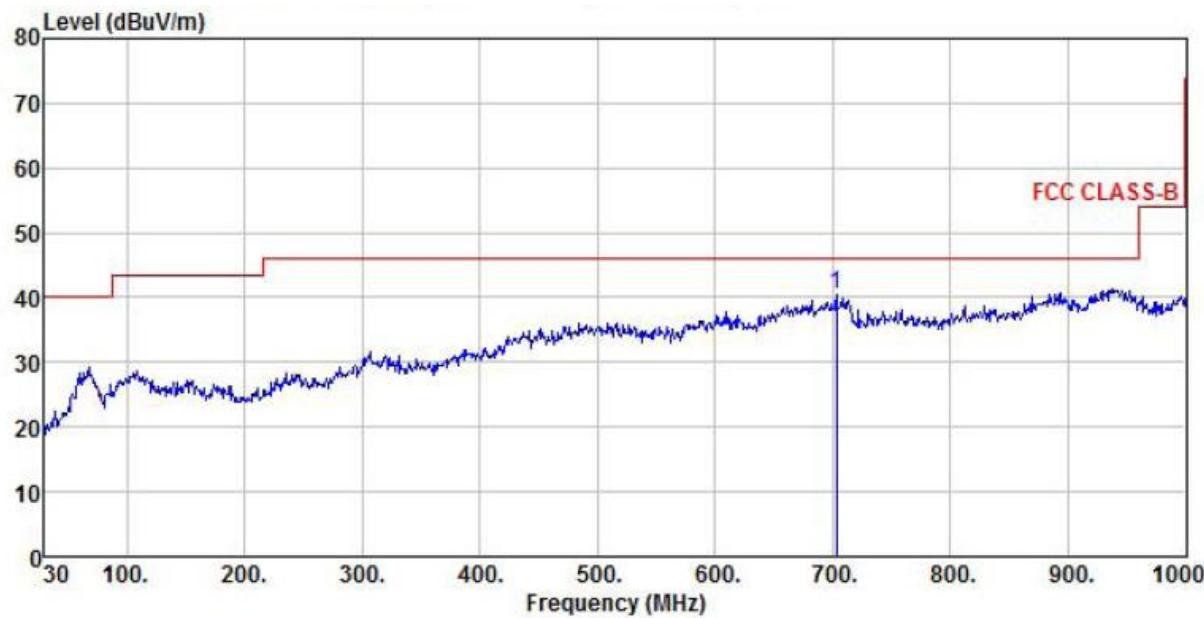
Power Rating: DC 3.7V

Mode : wifi ch1 11g

Memo :

	ReadAntenna Freq	Cable Level Factor	Preamp Loss Factor	Limit Level	Over Line Limit	Over Line Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB

1 pp	960.23	-4.71	43.29	4.20	0.00	42.78	54.00	-11.22 Peak
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Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

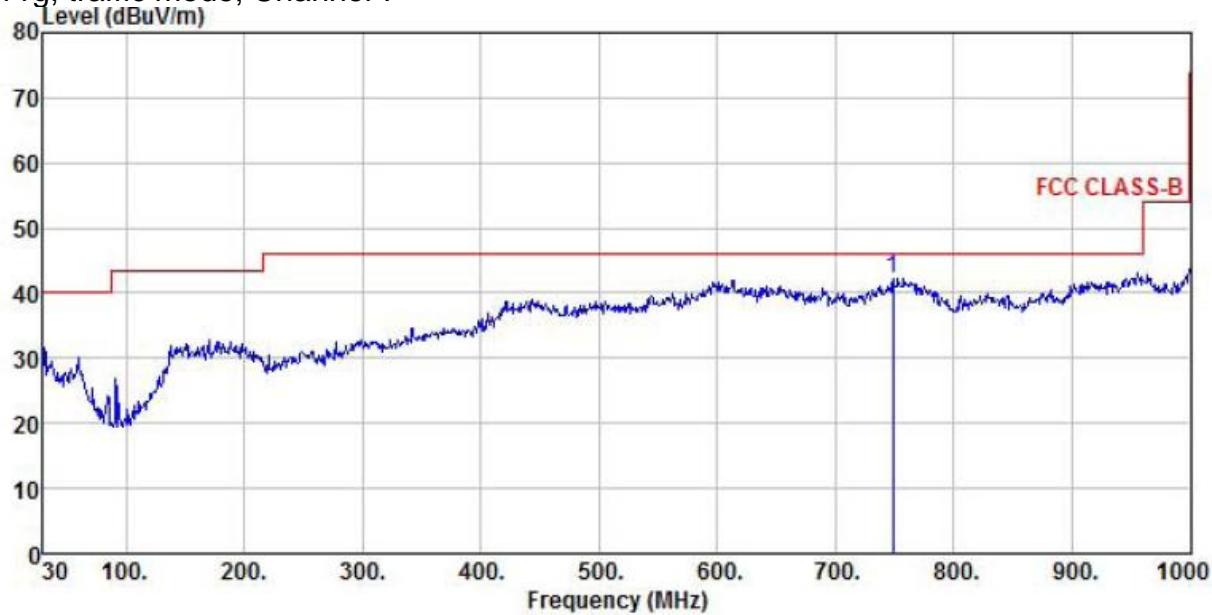
Power Rating: DC 3.7V

Mode : wifi ch1 11g

Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	703.18	4.40	32.38	3.65	0.00	40.43	46.00 -5.57 Peak

802.11g, traffic mode; Channel 7



Site : chamber

Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

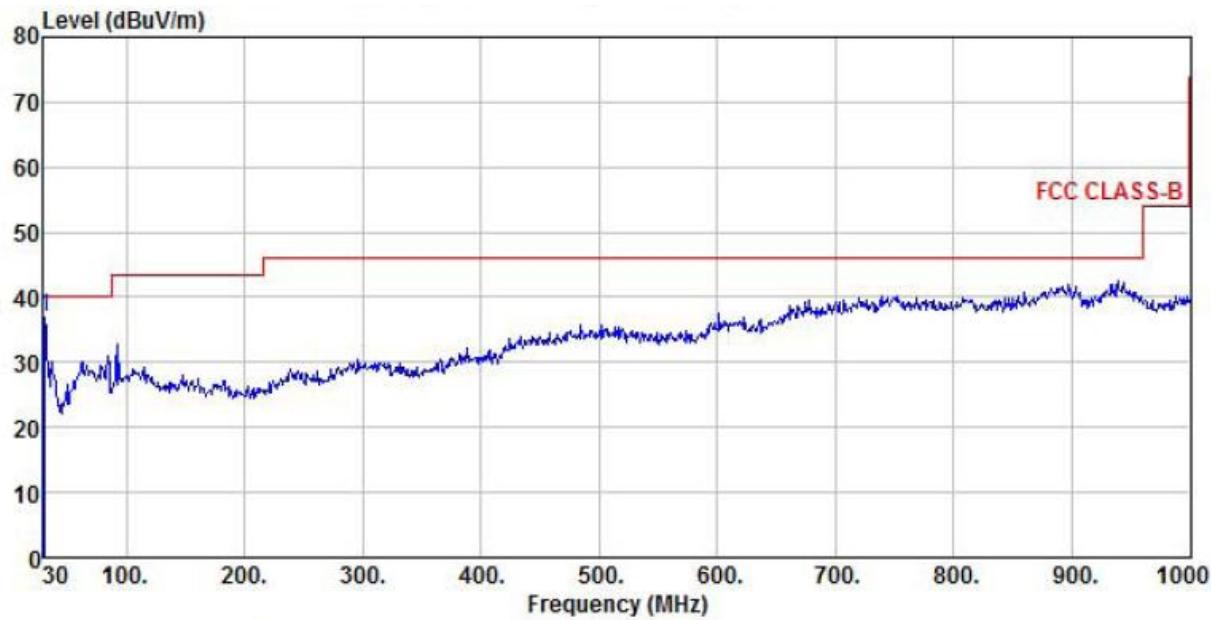
Power Rating: DC 3.7V

Mode : wifi ch7 11g

Memo :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit

1 pp	748.77	-1.59	40.09	3.80	0.00	42.30	46.00	-3.70	Peak
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

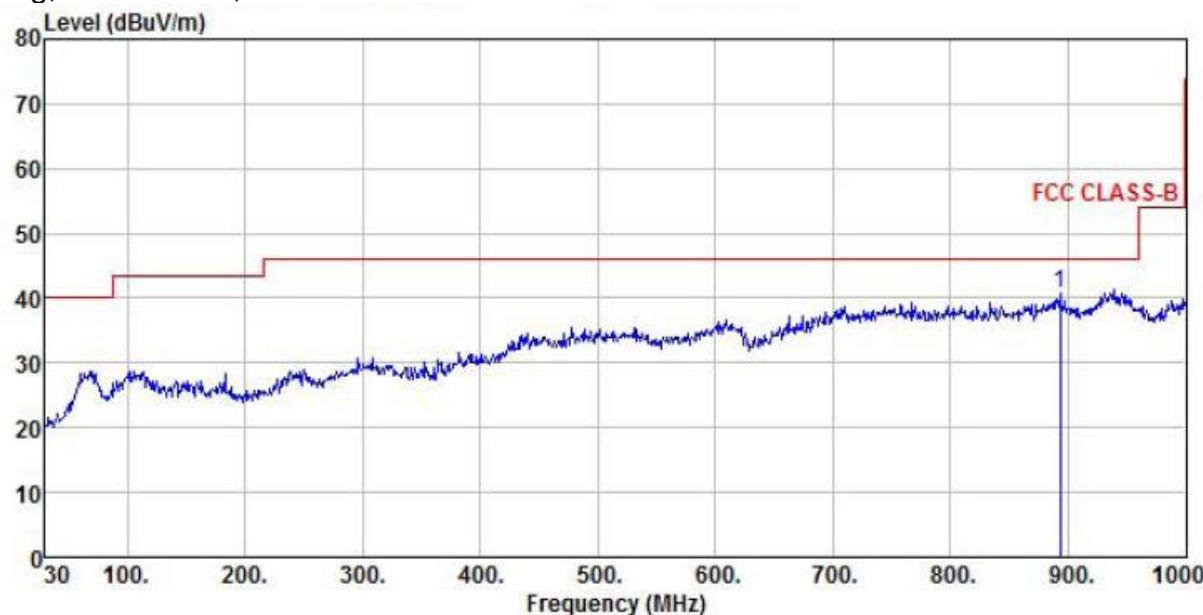
Power Rating: DC 3.7V

Mode : wifi ch7 11g

Memo :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Remark
	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	30.97	18.29	17.82	0.68	0.00	36.79	40.00	-3.21 Peak

802.11g, traffic mode; Channel 13



Site : chamber

Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

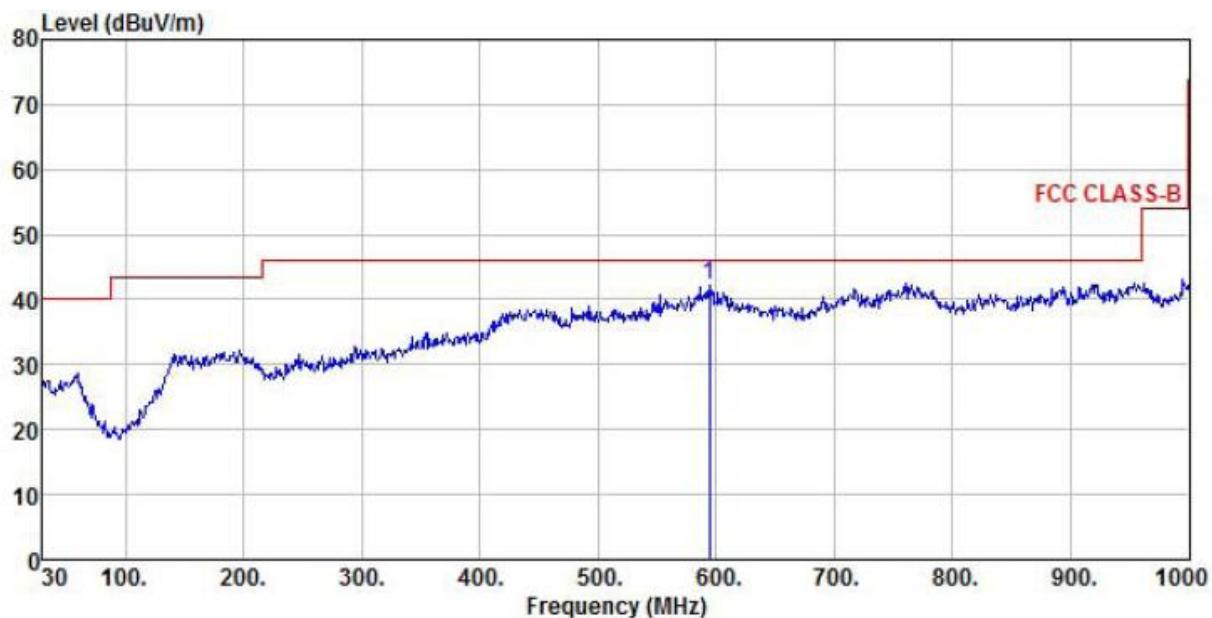
Mode : wifi ch13 11g

Memo :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit

MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
-----	------	------	----	----	--------	--------	----

1 pp	893.30	1.16	35.44	4.03	0.00	40.63	46.00	-5.37 Peak
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Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

Mode : wifi ch13 11g

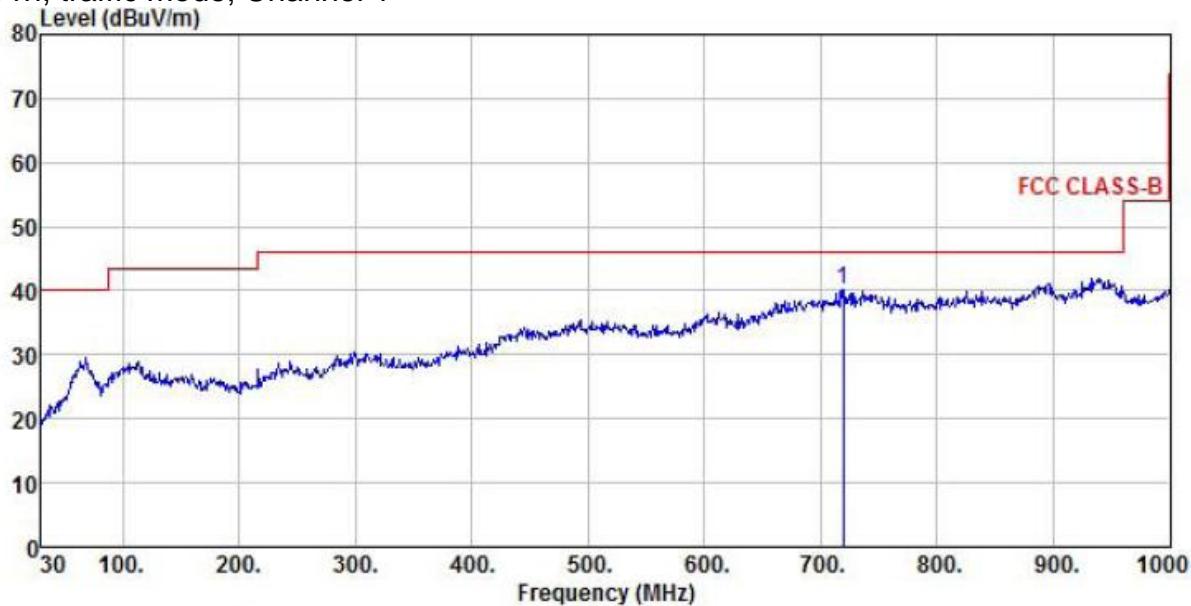
Memo :

Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Level Factor	Limit Level	Line Limit	Over Limit	Remark
------	-------------------	--------------	-------------	--------------	-------------	------------	------------	--------

MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
-----	------	------	----	----	--------	--------	----	--

1 pp	594.54	2.63	36.12	3.33	0.00	42.08	46.00	-3.92 Peak
------	--------	------	-------	------	------	-------	-------	------------

802.11n, traffic mode; Channel 1



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

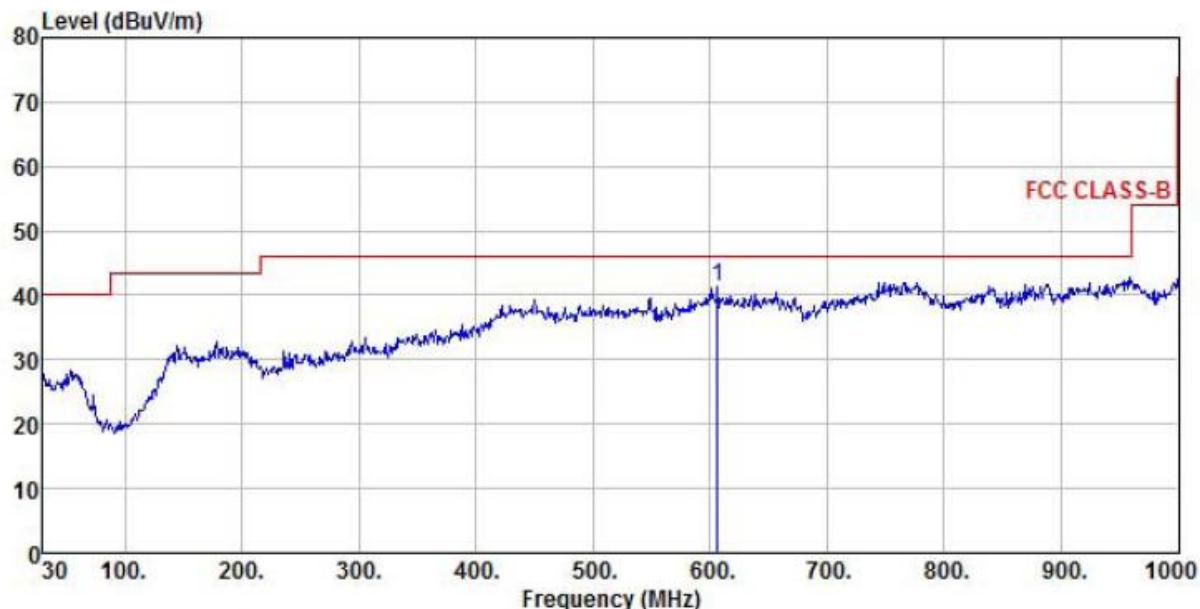
Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

Mode : wifi ch1 11n

Memo :

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	Factor	dB					
1 pp	719.67	3.98	32.51	3.70	0.00	40.19	46.00	-5.81	Peak



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

Mode : wifi ch1 11n

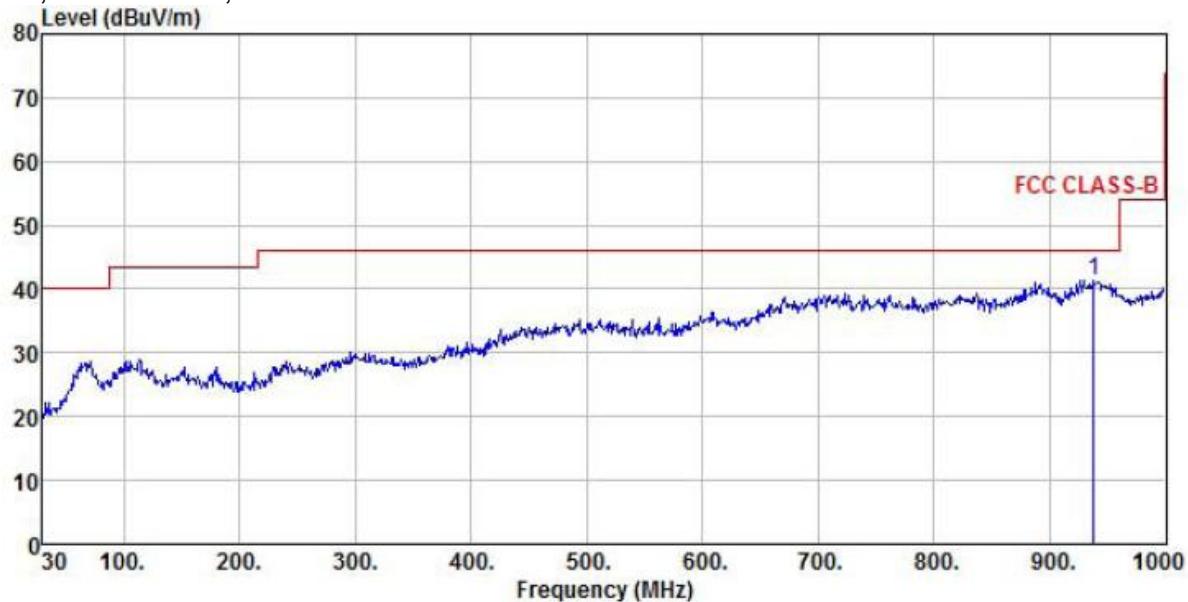
Memo :

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Remark
	Level	Factor	Loss	Factor				

MHz	dB <sub>uV</sub>	dB/m	dB	dB	dB <sub>BuV/m</sub>	dB <sub>BuV/m</sub>	dB	
-----	------------------	------	----	----	---------------------	---------------------	----	--

1 pp	606.18	1.36	36.49	3.35	0.00	41.20	46.00	-4.80 Peak
------	--------	------	-------	------	------	-------	-------	------------

802.11n, traffic mode; Channel 7



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

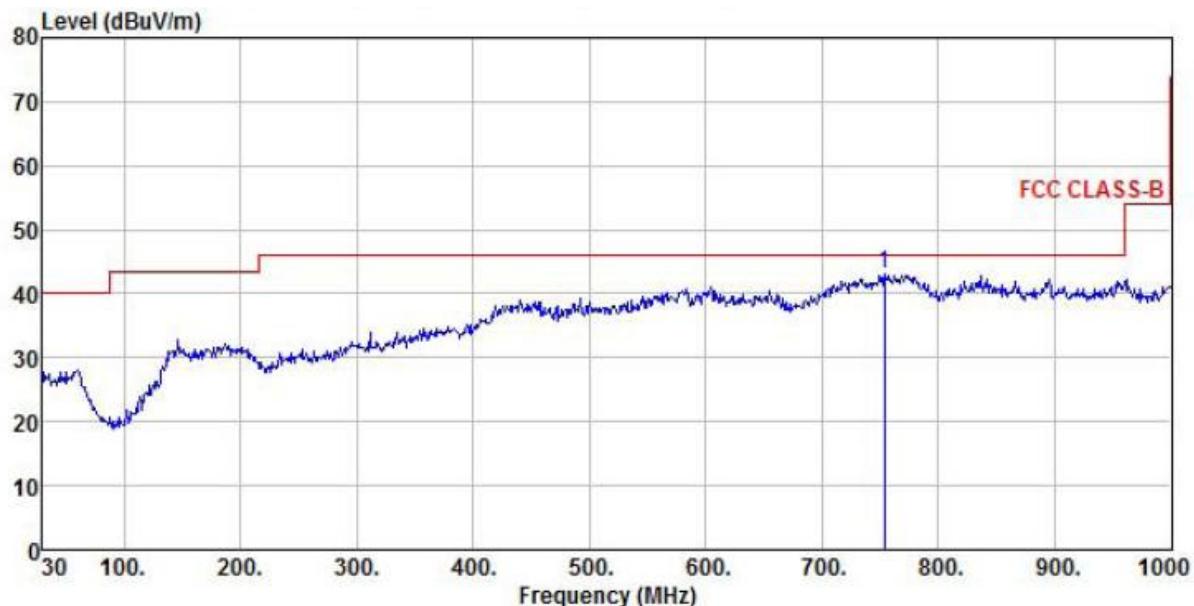
Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

Mode : wifi ch7 11n

Memo :

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Remark
	Level	Factor	dB	dB					
MHz	dBuV	dB/m			dBuV/m	dBuV/m	dB		
1 pp	937.92	0.86	36.38	4.13	0.00	41.37	46.00	-4.63	Peak



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

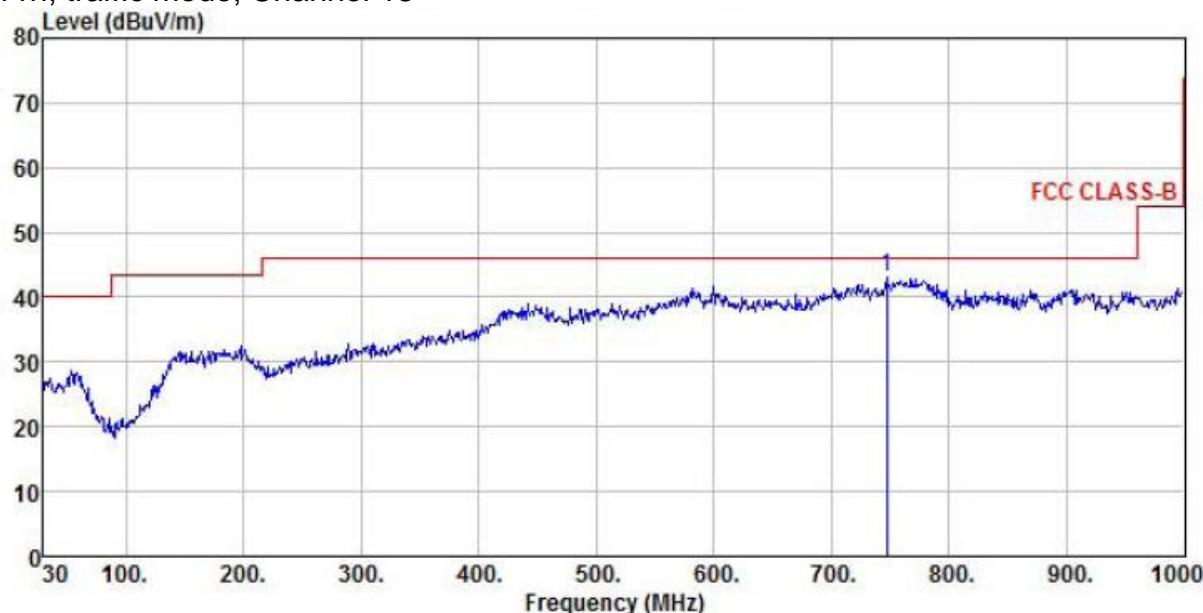
Power Rating: DC 3.7V

Mode : wifi ch7 11n

Memo :

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor				
	MHz	dB <sub>BuV</sub>	dB/m	dB	dB	dB <sub>BuV/m</sub>	dB <sub>BuV/m</sub>	dB
1 pp	753.62	-1.03	40.23	3.77	0.00	42.97	46.00	-3.03 Peak

802.11n, traffic mode; Channel 13



Site : chamber

Condition : FCC CLASS-B 3m VULB9160(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

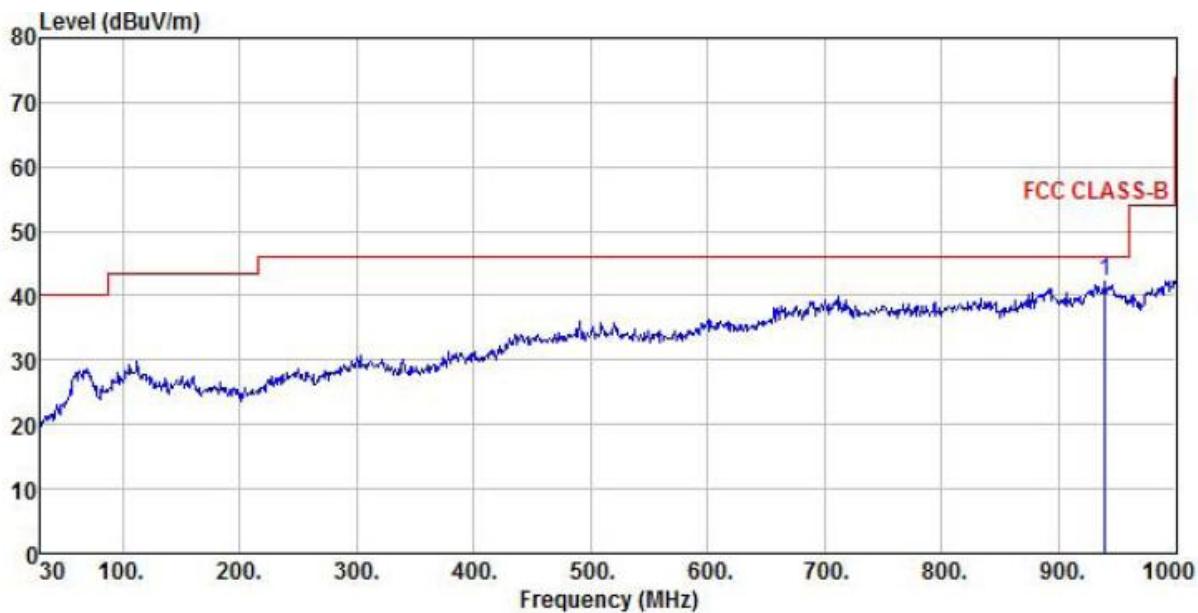
Mode : wifi ch13 11n

Memo :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit

MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
-----	------	------	----	----	--------	--------	----

1 pp	746.83	-0.49	39.91	3.79	0.00	43.21	46.00	-2.79	Peak
------	--------	-------	-------	------	------	-------	-------	-------	------



Site : chamber  
Condition : FCC CLASS-B 3m VULB9160(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

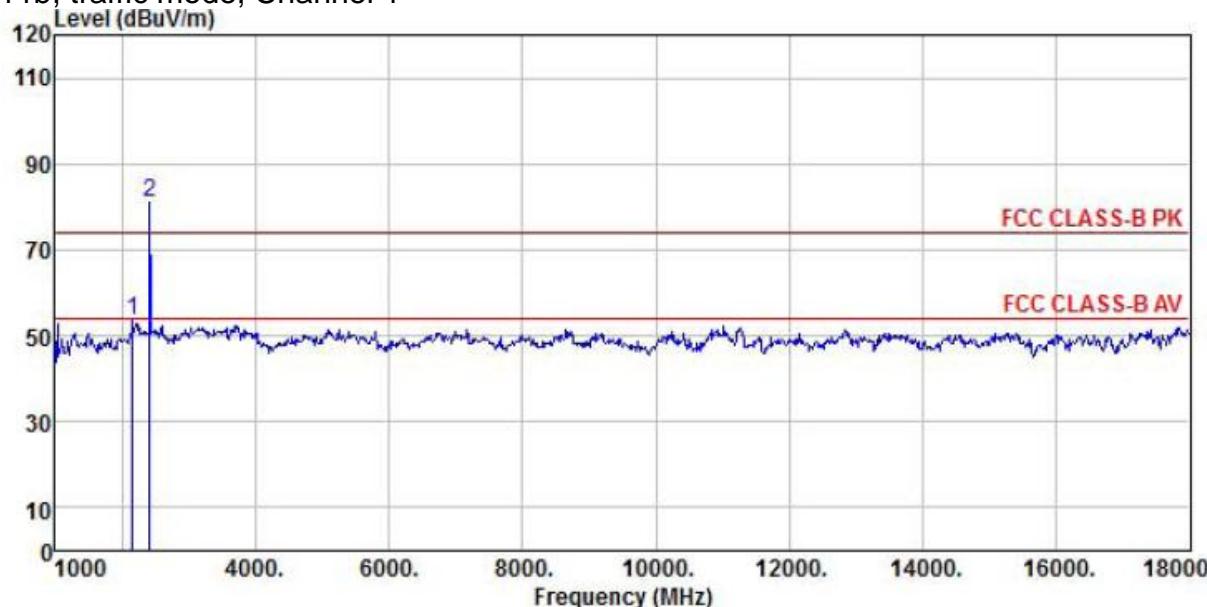
Mode : wifi ch13 11n

Memo :

Freq	ReadAntenna		Cable Preamp		Limit Level	Line	Over Limit	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	939.86	1.61	36.48	4.13	0.00	42.22	46.00	-3.78 Peak

**Above 1GHz:**

802.11b, traffic mode; Channel 1



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

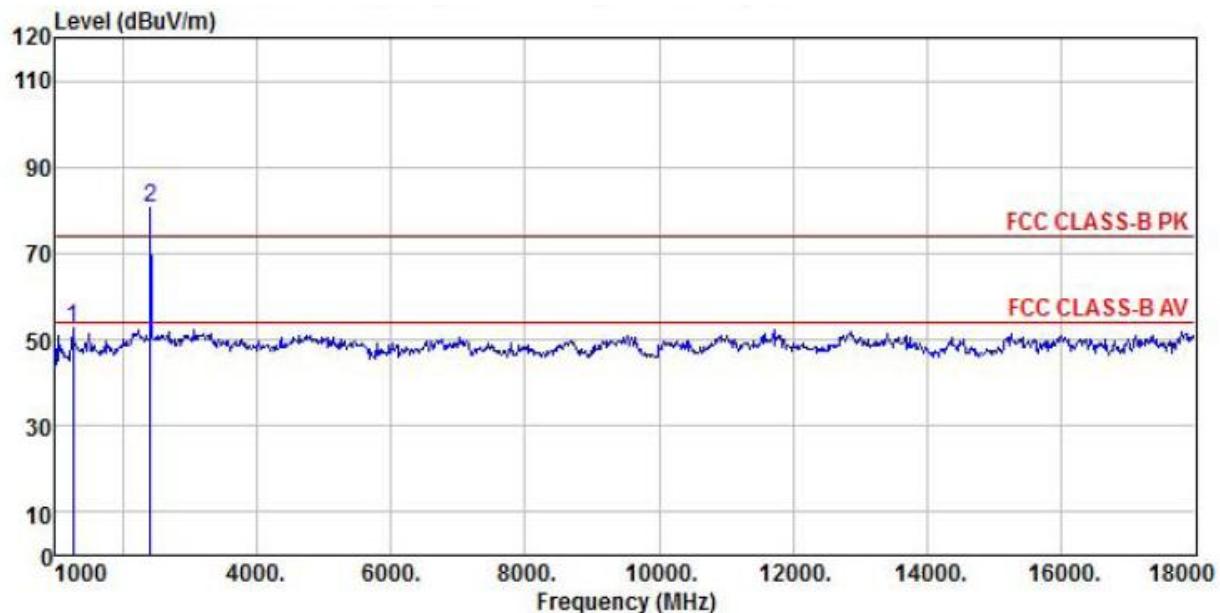
Power Rating: DC 3.7V

Mode : wifi ch1 11b

Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2156.00	46.68	38.34	6.79	38.44	53.37	74.00	-20.63 Peak
2 pp	2411.00	74.24	37.89	7.21	38.34	81.00	74.00	7.00 Peak

Notes: there is not any harmonic but for background noise above 6GHz

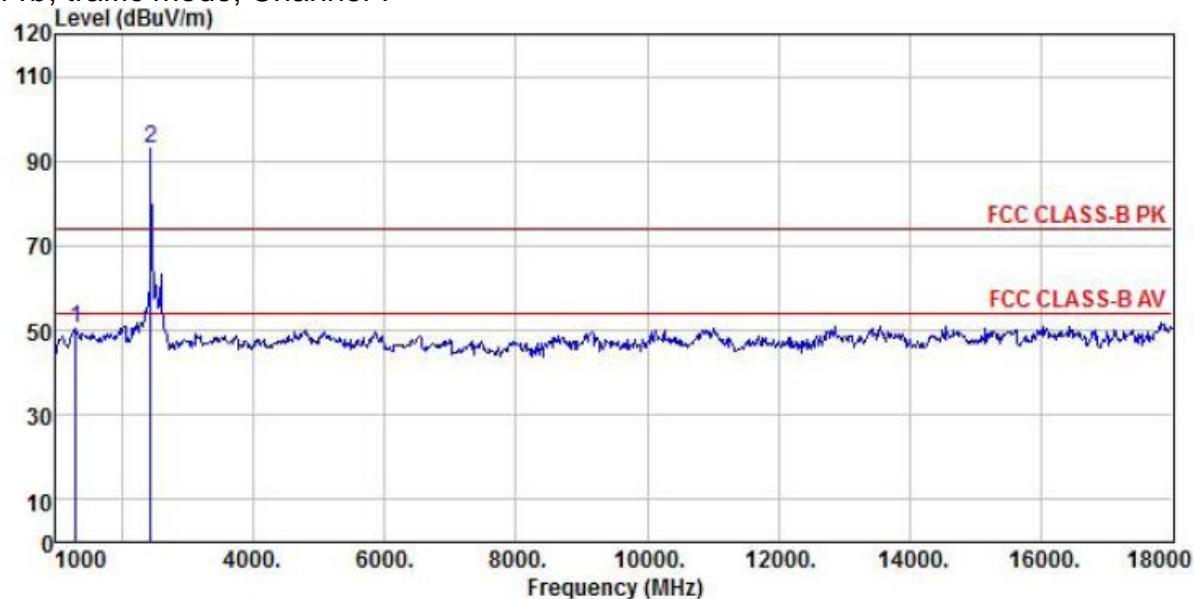


Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: DC 3.7V  
Mode : wifi ch1 11b  
Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Line	Limit	Remark
	MHz	Level	Factor	Loss	Factor				
1	1255.00	46.91	39.31	5.09	38.43	52.88	74.00	-21.12	Peak
2 pp	2411.00	73.98	37.89	7.21	38.34	80.74	74.00	6.74	Peak

Notes: there is not any harmonic but for background noise above 6GHz

802.11b, traffic mode; Channel 7



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

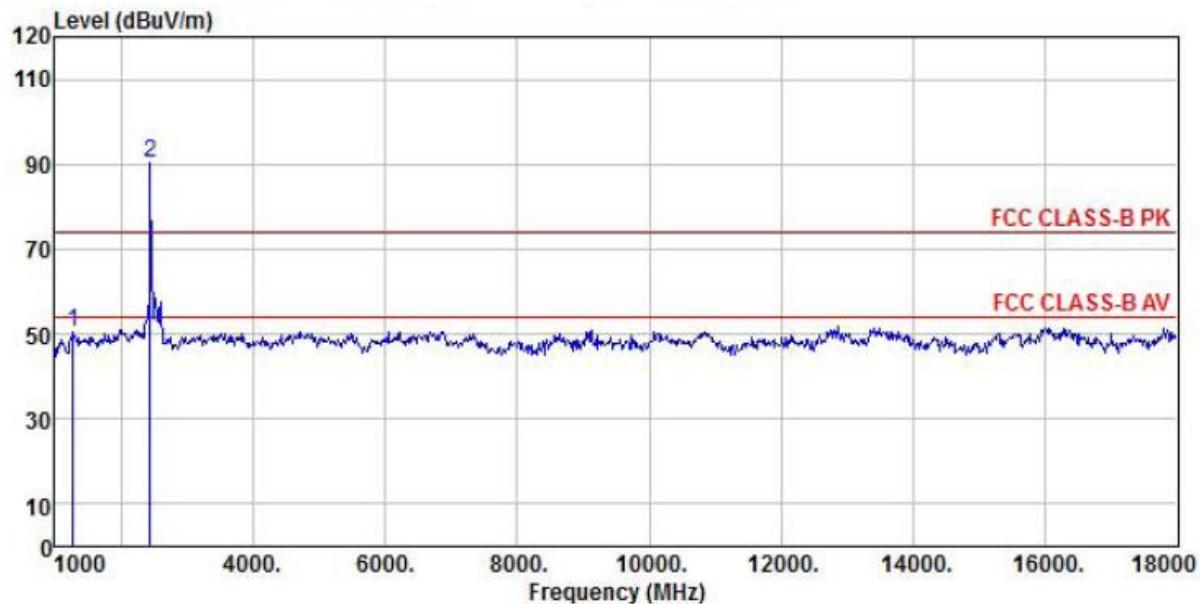
Power Rating: DC 3.7V

Mode : wifi ch7 11b

Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1306.00	44.14	39.36	5.26	38.43	50.33	74.00 -23.67 Peak
2 pp	2445.00	85.76	38.25	7.37	38.32	93.06	74.00 19.06 Peak

Notes: there is not any harmonic but for background noise above 6GHz



Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

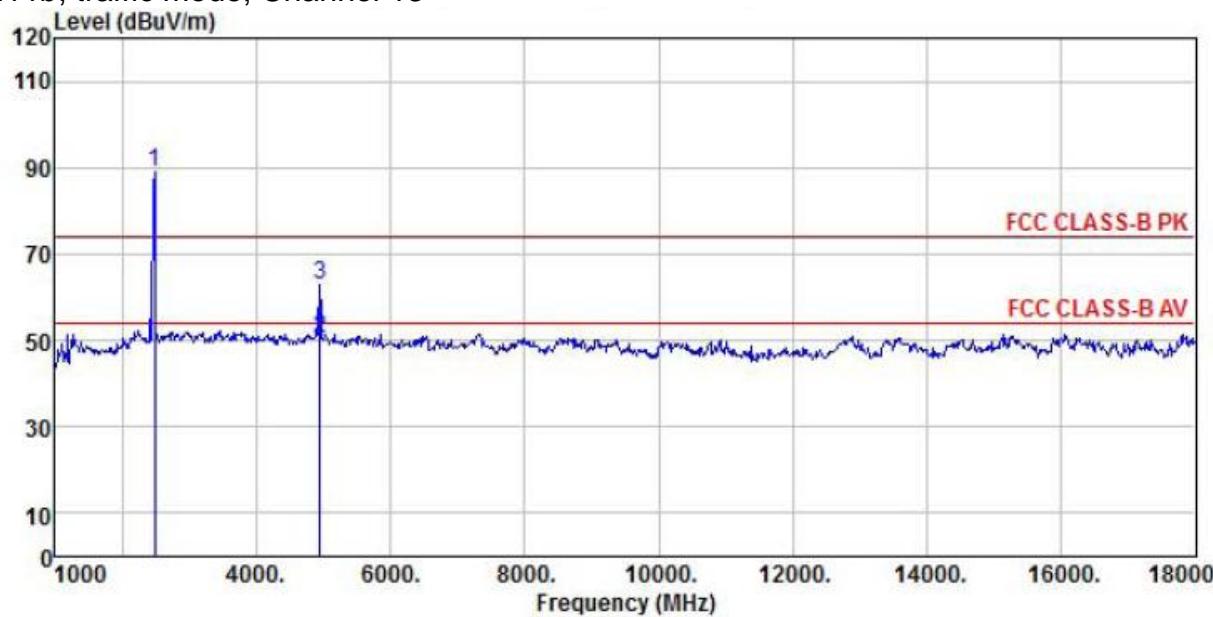
Mode : wifi ch7 11b

Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1272.00	44.39	39.33	5.14	38.43	50.43	74.00 -23.57 Peak
2 pp	2445.00	83.03	38.25	7.37	38.32	90.33	74.00 16.33 Peak

Notes: there is not any harmonic but for background noise above 6GHz

802.11b, traffic mode; Channel 13



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

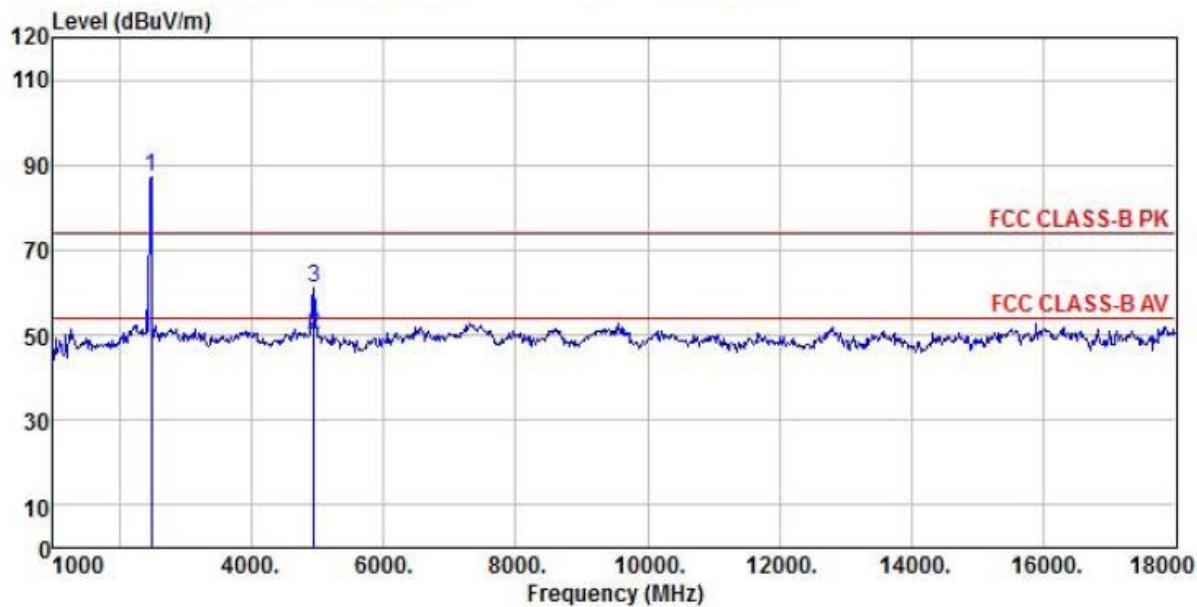
Mode : wifi ch13 11b

Memo :

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	2479.00	81.31	38.38	7.41	38.31	88.79	74.00	14.79 Peak
2 av	4944.00	34.84	41.95	10.62	37.12	50.29	54.00	-3.71 Average
3	4944.00	47.36	41.95	10.62	37.12	62.81	74.00	-11.19 Peak

Notes: there is not any harmonic but for background noise above 6GHz

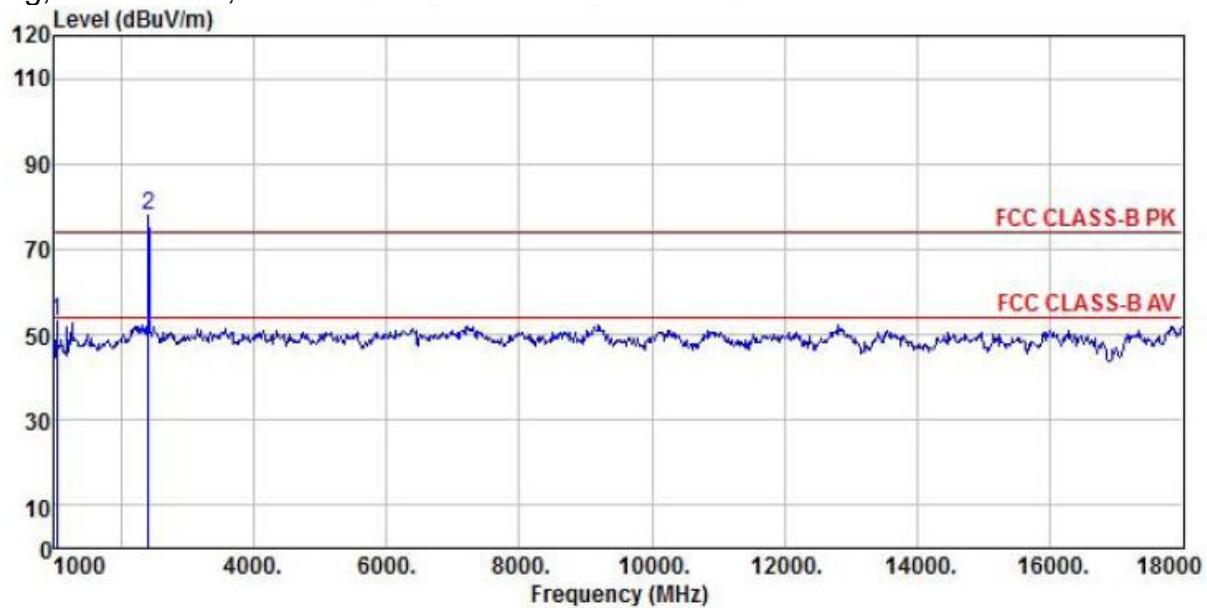


Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: DC 3.7V  
Mode : wifi ch13 11b  
Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	2479.00	79.68	38.38	7.41	38.31	87.16	74.00 13.16 Peak
2 av	4944.00	34.46	41.95	10.62	37.12	49.91	54.00 -4.09 Average
3	4944.00	45.58	41.95	10.62	37.12	61.03	74.00 -12.97 Peak

Notes: there is not any harmonic but for background noise above 6GHz

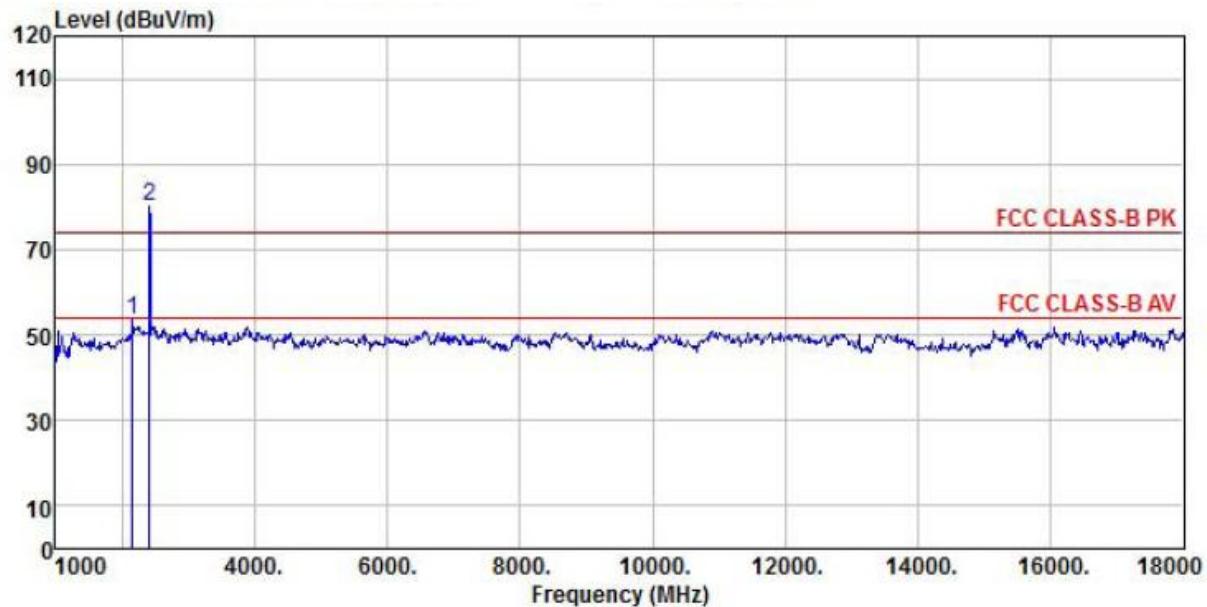
802.11g, traffic mode; Channel 1



Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: DC 3.7V  
Mode : wifi ch1 11g  
Memo :

	ReadAntenna Freq	Cable Level	Preamp Factor	Limit Loss	Over Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1034.00	50.88	35.97	4.77	38.40	53.22	74.00	-20.78 Peak
2 pp	2411.00	71.04	37.89	7.21	38.34	77.80	74.00	3.80 Peak

Notes: there is not any harmonic but for background noise above 6GHz



Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

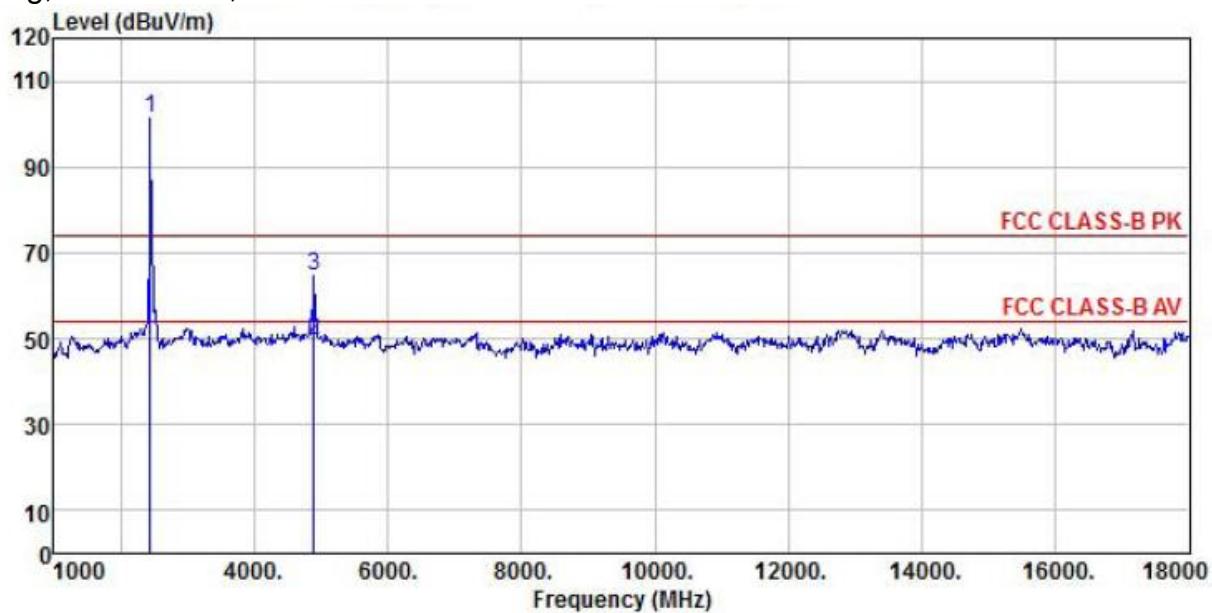
Mode : wifi ch1 11g

Memo :

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m			
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1	2156.00	46.81	38.34	6.79	38.44	53.50	74.00	-20.50	Peak
2 pp	2411.00	73.24	37.89	7.21	38.34	80.00	74.00	6.00	Peak

Notes: there is not any harmonic but for background noise above 6GHz

802.11g, traffic mode; Channel 7



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

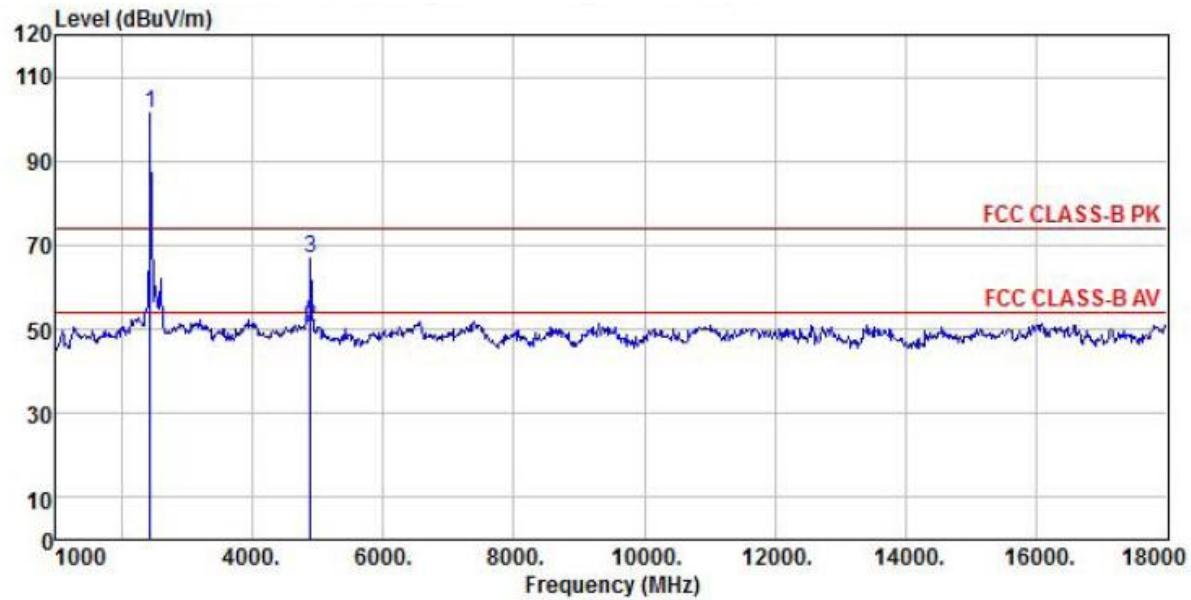
Power Rating: DC 3.7V

Mode : wifi ch7 11g

Memo :

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 pp	2445.00	94.09	38.25	7.37	38.32	101.39	74.00	27.39	Peak		
2 av	4893.00	34.96	41.55	10.35	37.14	49.72	54.00	-4.28	Average		
3	4893.00	49.93	41.55	10.35	37.14	64.69	74.00	-9.31	Peak		

Notes: there is not any harmonic but for background noise above 6GHz



Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

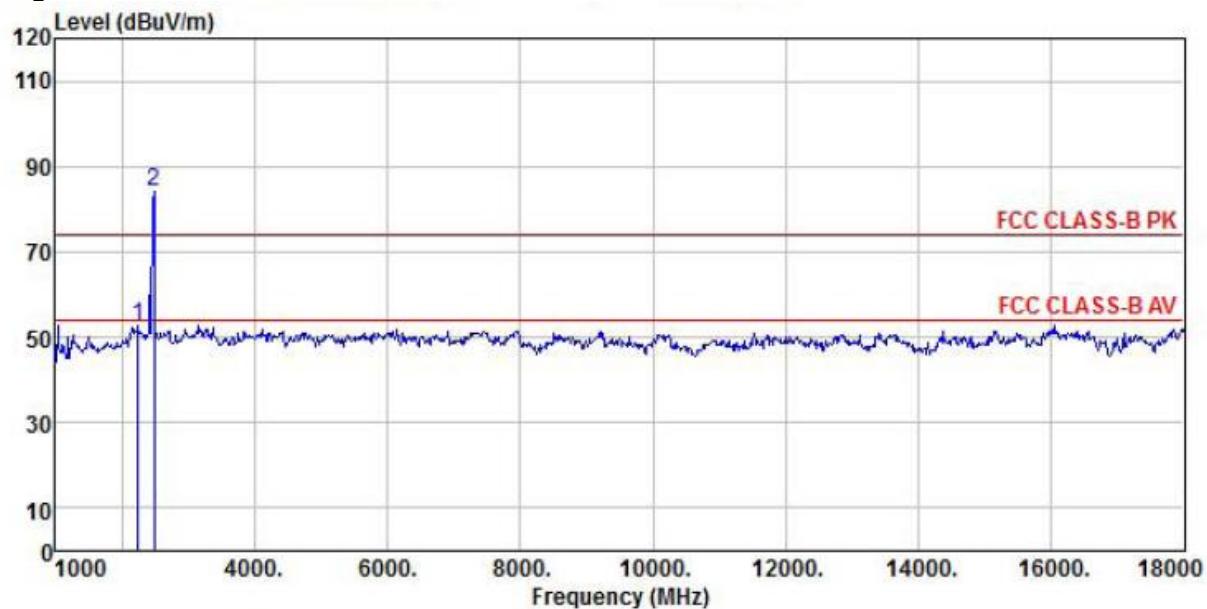
Mode : wifi ch7 11g

Memo :

Freq	ReadAntenna		Cable Preamp		Limit Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	2445.00	94.32	38.25	7.37	38.32	101.62	74.00	27.62 Peak
2 av	4893.00	35.89	41.55	10.35	37.14	50.65	54.00	-3.35 Average
3	4893.00	52.06	41.55	10.35	37.14	66.82	74.00	-7.18 Peak

Notes: there is not any harmonic but for background noise above 6GHz

802.11g, traffic mode; Channel 13



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

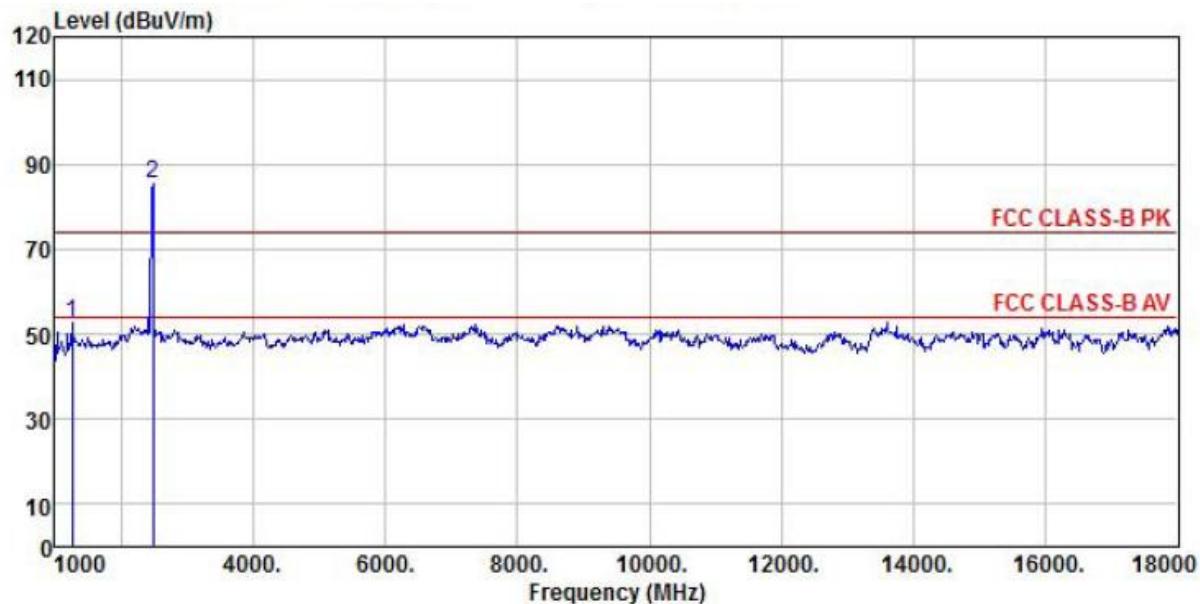
Power Rating: DC 3.7V

Mode : wifi ch13 11g

Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Line	Limit	Remark
	MHz	dBuV	dB/m	dB					
1	2241.00	44.57	39.68	6.83	38.41	52.67	74.00	-21.33	Peak
2 pp	2479.00	76.59	38.38	7.41	38.31	84.07	74.00	10.07	Peak

Notes: there is not any harmonic but for background noise above 6GHz



Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

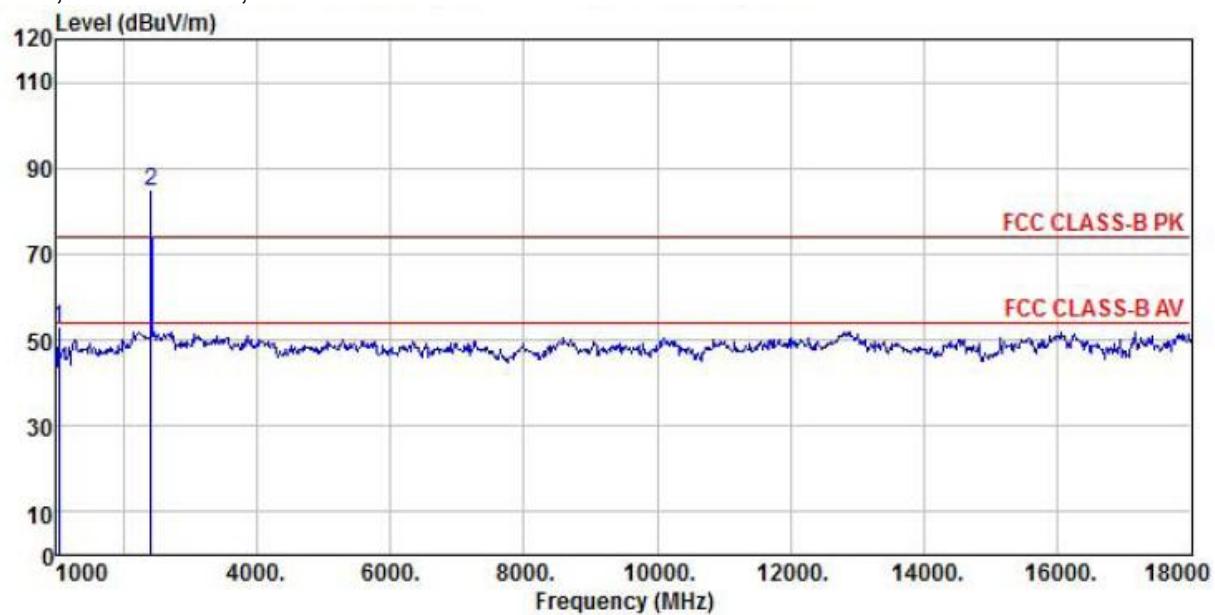
Mode : wifi ch13 11g

Memo :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Remark	
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1255.00	46.58	39.31	5.09	38.43	52.55	74.00	-21.45 Peak
2 pp	2479.00	77.83	38.38	7.41	38.31	85.31	74.00	11.31 Peak

Notes: there is not any harmonic but for background noise above 6GHz

802.11n, traffic mode; Channel 1



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

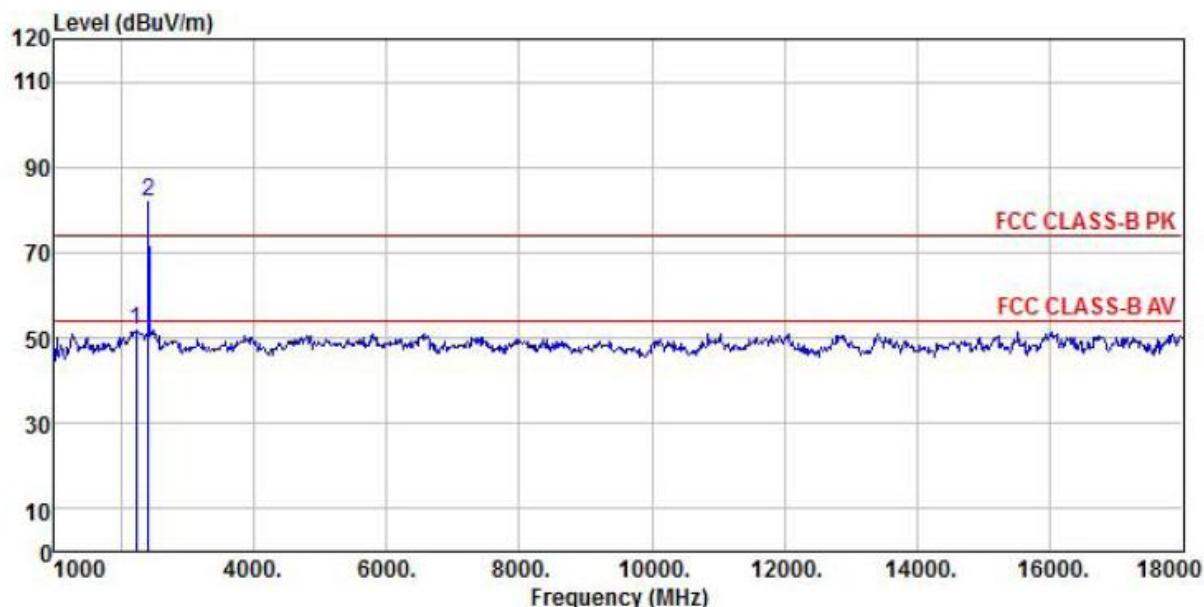
Power Rating: DC 3.7V

Mode : wifi ch1 11n

Memo :

	ReadAntenna Freq	Cable Level	Preamp Factor	Limit Loss Factor	Over Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Over Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1034.00	50.20	35.97	4.77	38.40	52.54	74.00	-21.46	Peak
2 pp	2411.00	78.02	37.89	7.21	38.34	84.78	74.00	10.78	Peak

Notes: there is not any harmonic but for background noise above 6GHz

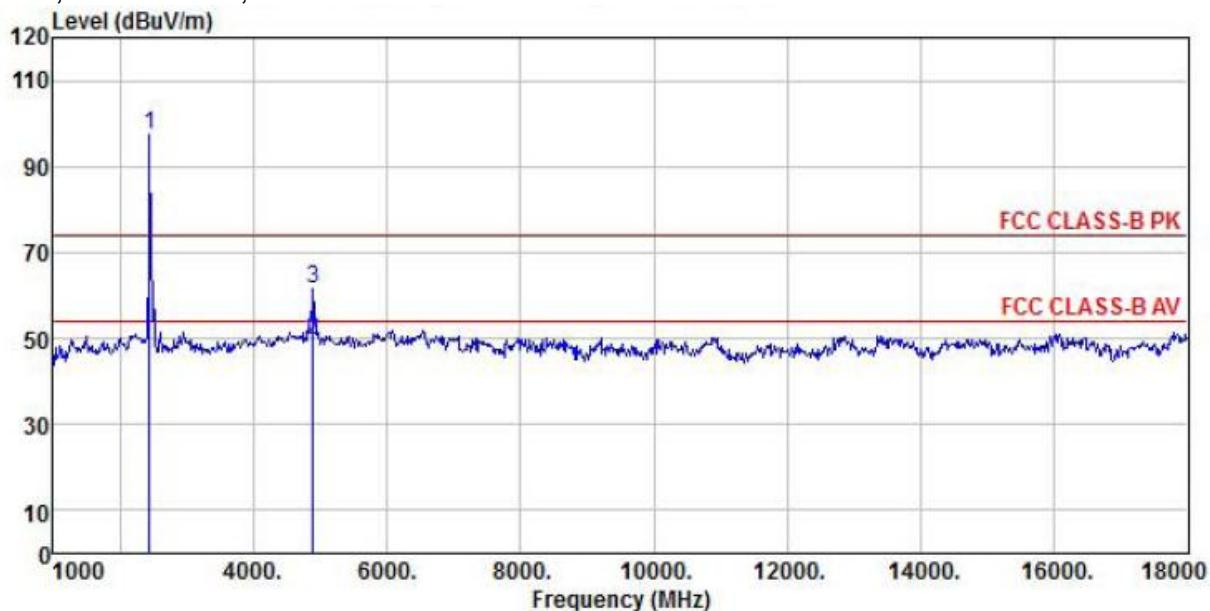


Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: DC 3.7V  
Mode : wifi ch1 11n  
Memo :

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Remark
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2224.00	43.51	39.75	6.81	38.41	51.66	74.00	-22.34 Peak
2 pp	2411.00	75.35	37.89	7.21	38.34	82.11	74.00	8.11 Peak

Notes: there is not any harmonic but for background noise above 6GHz

802.11n, traffic mode; Channel 7



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

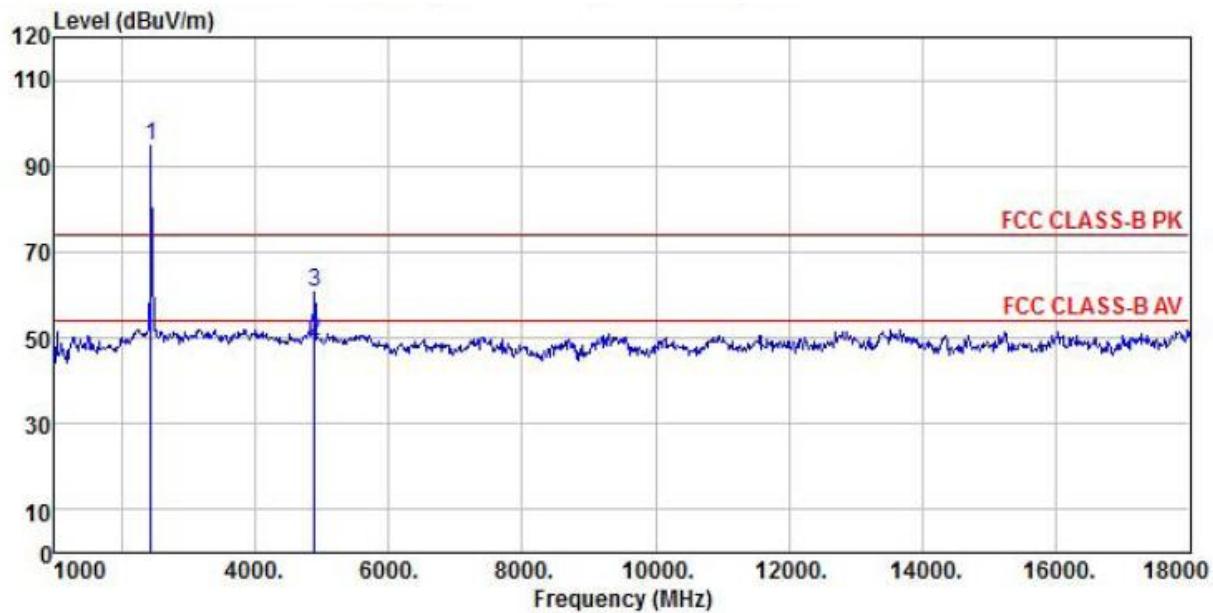
Mode : wifi ch7 11n

Memo :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	2445.00	90.31	38.25	7.37	38.32	97.61	74.00	23.61 Peak
2 av	4893.00	34.95	41.55	10.35	37.14	49.71	54.00	-4.29 Average
3	4893.00	46.75	41.55	10.35	37.14	61.51	74.00	-12.49 Peak

Notes: there is not any harmonic but for background noise above 6GHz



Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

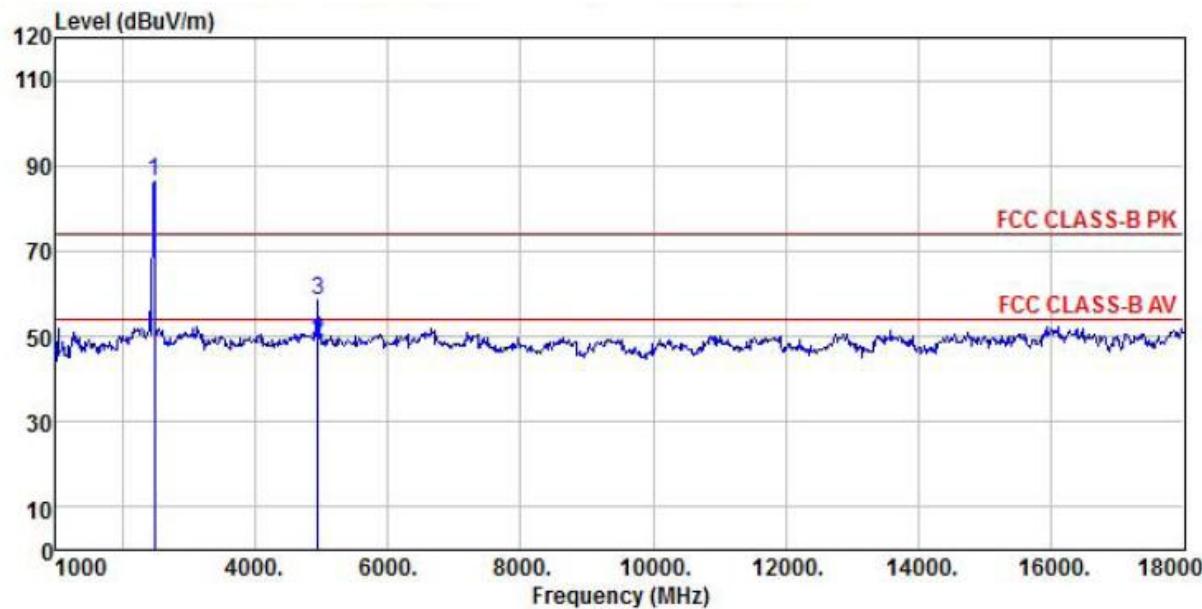
Mode : wifi ch7 11n

Memo :

Freq	ReadAntenna		Cable Preamp		Limit Level	Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB				
1 pp	2445.00	87.62	38.25	7.37	38.32	94.92	74.00	20.92 Peak
2 av	4893.00	34.36	41.55	10.35	37.14	49.12	54.00	-4.88 Average
3	4893.00	46.02	41.55	10.35	37.14	60.78	74.00	-13.22 Peak

Notes: there is not any harmonic but for background noise above 6GHz

802.11n, traffic mode; Channel 13



Site : chamber

Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-V) VERTICAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

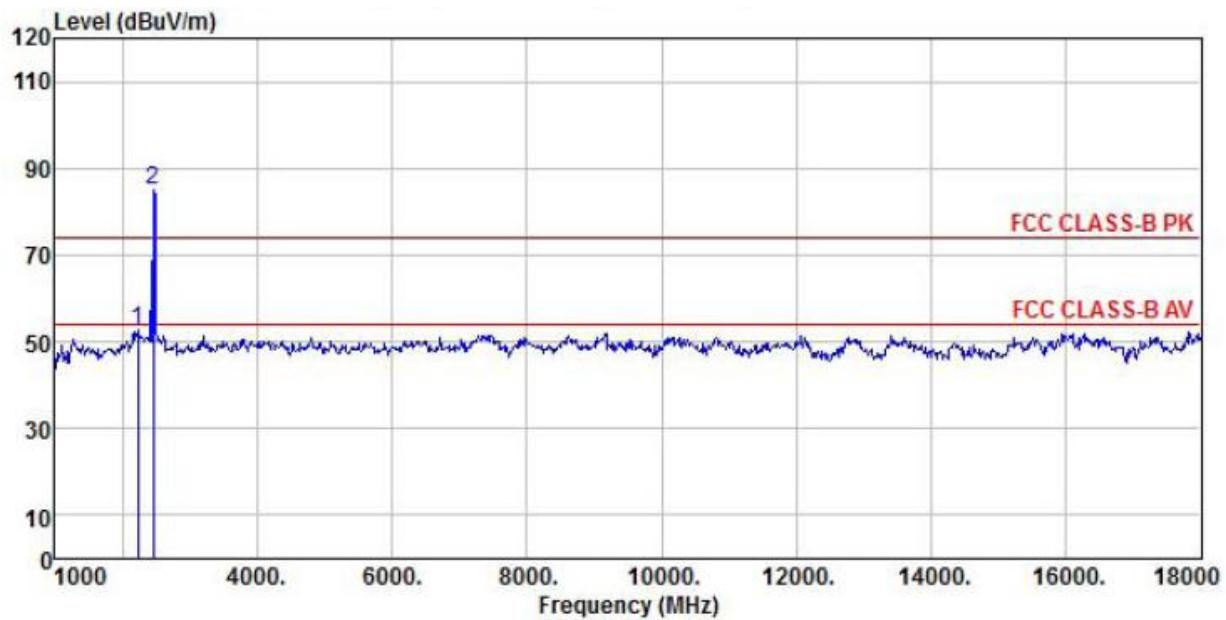
Power Rating: DC 3.7V

Mode : wifi ch13 11n

Memo :

Freq	ReadAntenna MHz	Level dBuV	Antenna Factor	Cable Preamp		Limit Level dBuV/m	Over Line dB	Over Limit Remark
				Loss dB	Factor dB			
1 pp	2479.00	78.93	38.38	7.41	38.31	86.41	74.00	12.41 Peak
2 av	4944.00	33.37	41.95	10.62	37.12	48.82	54.00	-5.18 Average
3	4944.00	42.95	41.95	10.62	37.12	58.40	74.00	-15.60 Peak

Notes: there is not any harmonic but for background noise above 6GHz



Site : chamber  
Condition : FCC CLASS-B PK 3m BBHA9120D(RSE-H) HORIZONTAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

Power Rating: DC 3.7V

Mode : wifi ch13 11n

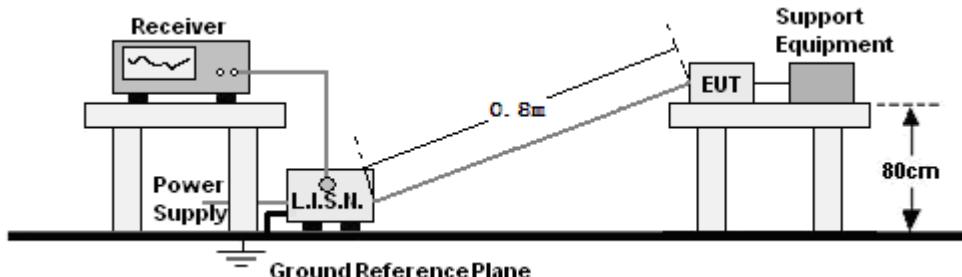
Memo :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Limit	Remark	
	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2224.00	44.69	39.75	6.81	38.41	52.84	74.00	-21.16 Peak
2 pp	2462.00	77.61	38.39	7.39	38.32	85.07	74.00	11.07 Peak

Notes: there is not any harmonic but for background noise above 6GHz

## 11. AC POWER LINE CONDUCTED EMISSIONS

### 11.1 TEST SETUP



### 11.2 LIMITS

Frequency range (MHz)	Limits dB( $\mu$ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

**NOTE:** 1. The lower limit shall apply at the transition frequencies.  
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

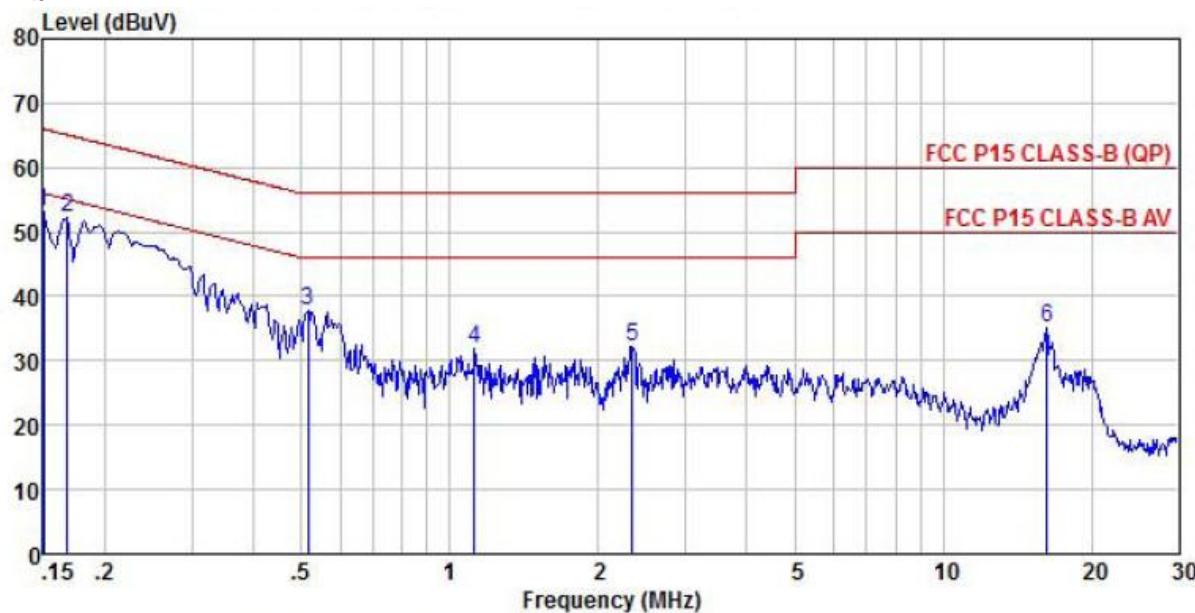
### 11.3 TEST PROCEDURE

According to description of ANSI C63.4: 2009 sec.13.1.3, the AC power line preliminary conducted emissions measurements were carried out. The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements. The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The EUT is connected to LISN and LISN is connected to the reference ground. All other supplemental devices are connected with EUT through other LISN. The distance between EUT and LISN is 80cm. A radio link is established between EUT and the tester. The output power of the EUT is controlled by the tester and driven to maximum value. An initial pre-scan was performed on the live L line and neutral line with peak detector (9kHz RBW). Both average detector and quasi-peak detector are performed at the frequencies with maximized peak emission.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

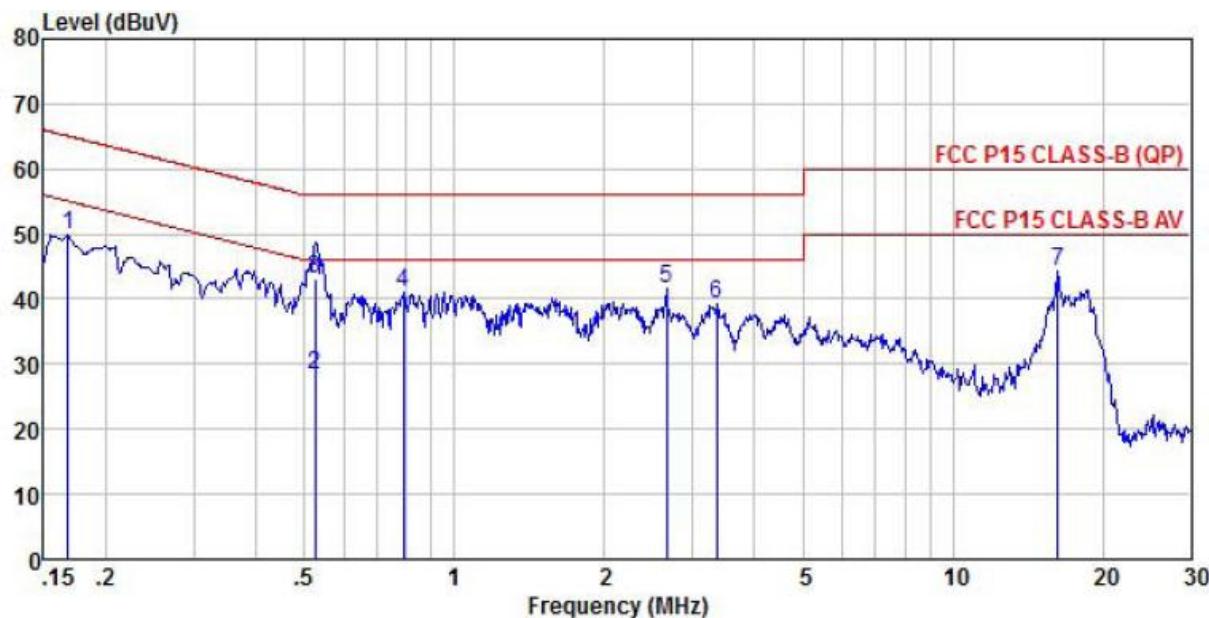
## 11.4 RESULTS & PERFORMANCE

### 802.11b



Site : shielded room 3  
Condition : FCC P15 CLASS-B (QP) ENV216(L)-20120730 LINE  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: AC 120V/60Hz  
Mode : WIFI 11b  
Memo :

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB				
1	0.15	42.55	10.36	0.09	0.00	53.00	66.00	-13.00 Peak
2 pp	0.17	41.79	10.49	0.09	0.00	52.37	65.08	-12.71 Peak
3	0.52	27.11	10.55	0.10	0.00	37.76	56.00	-18.24 Peak
4	1.12	21.25	10.52	0.14	0.00	31.91	56.00	-24.09 Peak
5	2.35	21.60	10.52	0.15	0.00	32.27	56.00	-23.73 Peak
6	16.23	24.53	10.52	0.11	0.00	35.16	60.00	-24.84 Peak



Site : shielded room 3  
Condition : FCC P15 CLASS-B (QP) ENV216(N)-20120730 NEUTRAL

EUT : Coolpad Flo

Model Name : Coolpad 7560T

Temp/Humi : 23 °C / 55%

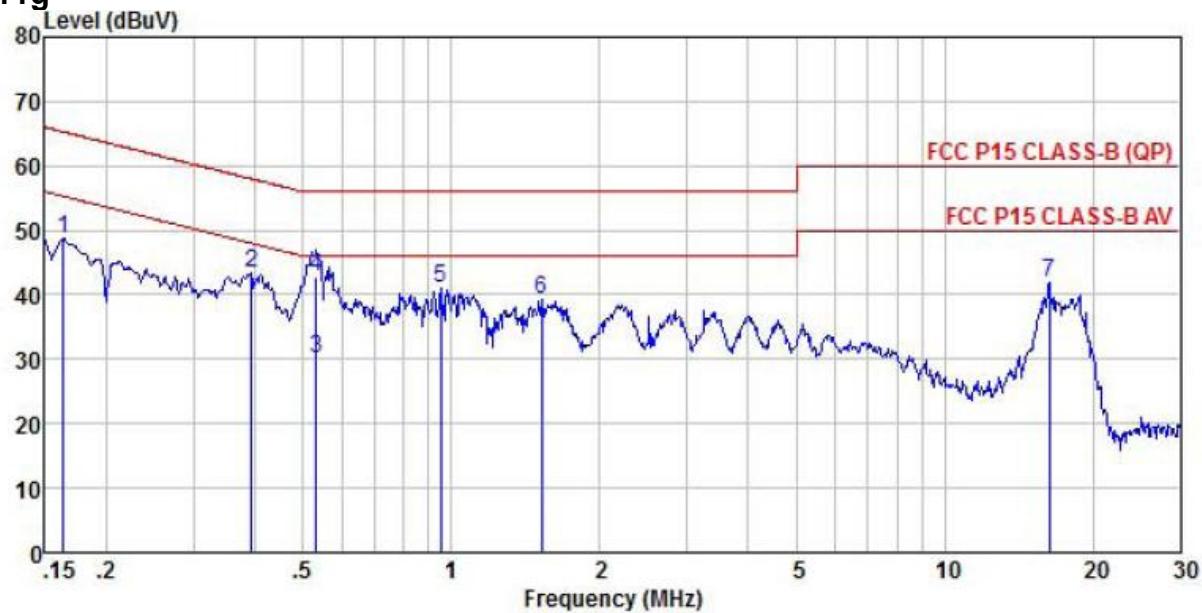
Power Rating: AC 120V/60Hz

Mode : WIFI 11b

Memo :

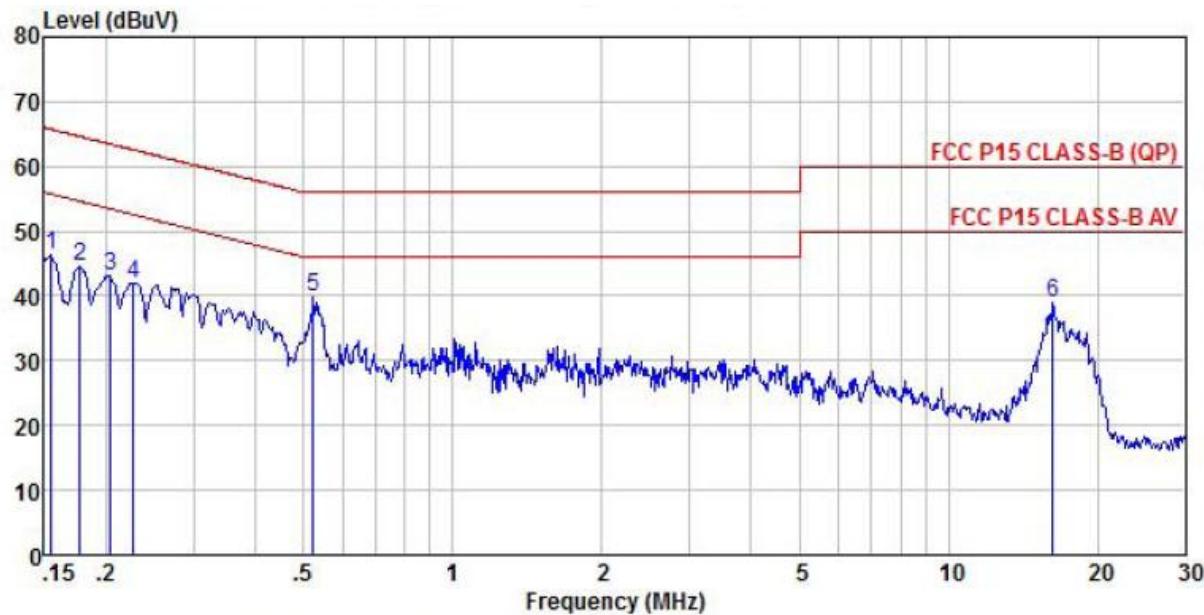
Freq	ReadAntenna		Cable Preamp		Limit Level	Line	Over Limit	Remark
	Freq	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	0.17	39.44	10.27	0.09	0.00	49.80	65.08	-15.28 Peak
2 av	0.53	17.69	10.40	0.10	0.00	28.19	46.00	-17.81 Average
3 pp	0.53	32.72	10.40	0.10	0.00	43.22	56.00	-12.78 QP
4	0.79	30.71	10.31	0.13	0.00	41.15	56.00	-14.85 Peak
5 pk	2.66	31.28	10.32	0.15	0.00	41.75	56.00	-14.25 Peak
6	3.36	28.69	10.32	0.15	0.00	39.16	56.00	-16.84 Peak
7	16.23	33.62	10.52	0.11	0.00	44.25	60.00	-15.75 Peak

**802.11g**



Site : shielded room 3  
Condition : FCC P15 CLASS-B (QP) ENV216(N)-20120730 NEUTRAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: AC 120V/60Hz  
Mode : WIFI 11g  
Memo :

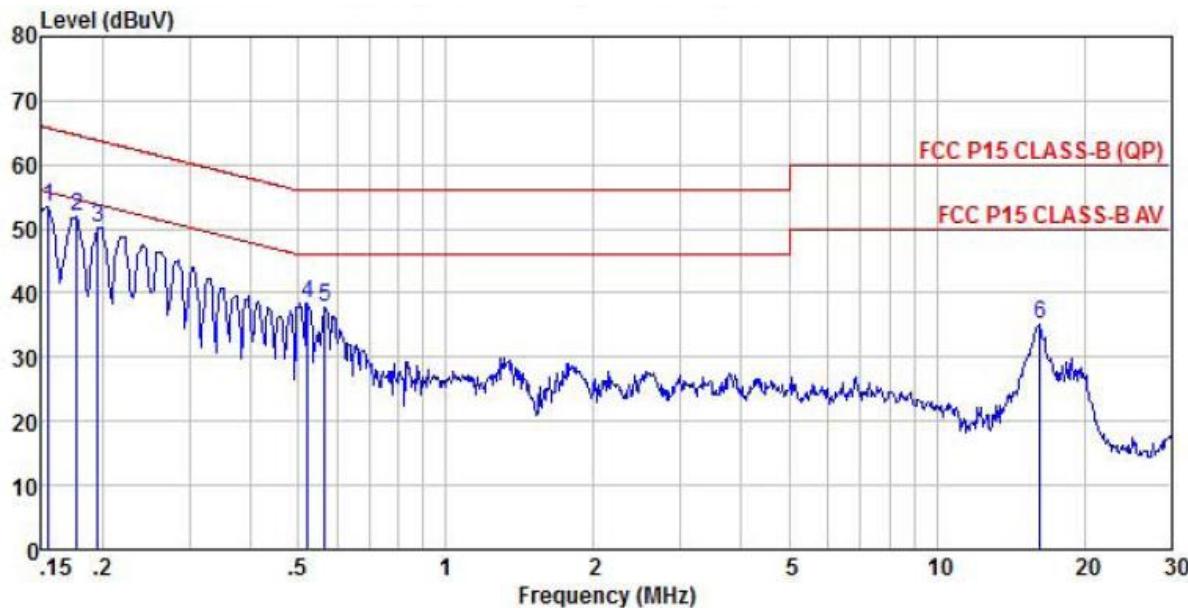
Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB				
1	0.16	38.41	10.28	0.09	0.00	48.78	65.30	-16.52 Peak
2 pk	0.39	32.79	10.42	0.14	0.00	43.35	57.99	-14.64 Peak
3 av	0.53	19.65	10.40	0.10	0.00	30.15	46.00	-15.85 Average
4 pp	0.53	32.22	10.40	0.10	0.00	42.72	56.00	-13.28 QP
5	0.95	30.61	10.31	0.14	0.00	41.06	56.00	-14.94 Peak
6	1.53	28.94	10.31	0.15	0.00	39.40	56.00	-16.60 Peak
7	16.31	31.25	10.51	0.11	0.00	41.87	60.00	-18.13 Peak



Site : shielded room 3  
Condition : FCC P15 CLASS-B (QP) ENV216(L)-20120730 LINE  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: AC 120V/60Hz  
Mode : WIFI 11g  
Memo :

Freq	ReadAntenna		Cable Preamp		Limit Level	Line Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB				
1	0.15	35.75	10.38	0.09	0.00	46.22	65.74	-19.52 Peak
2	0.18	33.81	10.53	0.23	0.00	44.57	64.64	-20.07 Peak
3	0.20	32.37	10.42	0.22	0.00	43.01	63.45	-20.44 Peak
4	0.23	31.39	10.44	0.22	0.00	42.05	62.57	-20.52 Peak
5 pp	0.52	29.07	10.54	0.10	0.00	39.71	56.00	-16.29 Peak
6	16.23	28.28	10.52	0.11	0.00	38.91	60.00	-21.09 Peak

**802.11n**



Site : chamber

Condition : FCC P15 CLASS-B (QP) ENV216(L)-20120730 LINE

EUT : Coolpad Flo

Model Name : Coolpad 7560T

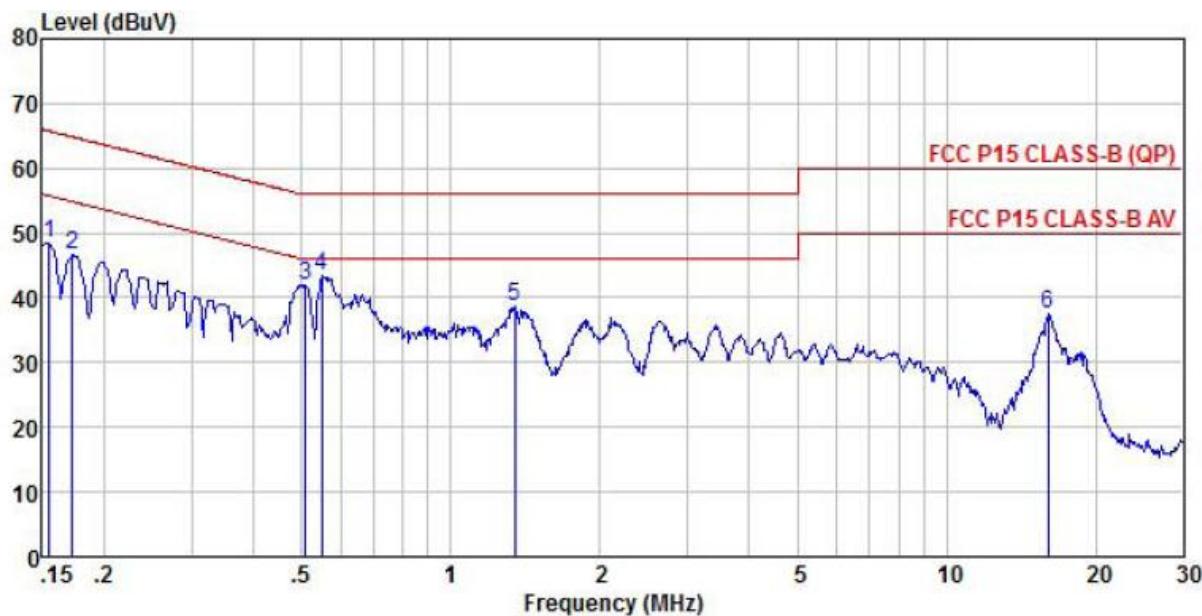
Temp/Humi : 23 °C / 55%

Power Rating: AC 120V/60Hz

Mode : WIFI 11n

Memo :

Freq	ReadAntenna		Cable Preamp		Limit Level	Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB				
1 pp	0.15	43.00	10.38	0.09	0.00	53.47	65.74	-12.27 Peak
2	0.18	41.10	10.53	0.23	0.00	51.86	64.64	-12.78 Peak
3	0.20	39.60	10.44	0.23	0.00	50.27	63.80	-13.53 Peak
4	0.52	27.87	10.54	0.10	0.00	38.51	56.00	-17.49 Peak
5	0.57	27.06	10.50	0.11	0.00	37.67	56.00	-18.33 Peak
6	16.23	24.62	10.52	0.11	0.00	35.25	60.00	-24.75 Peak



Site : chamber  
Condition : FCC P15 CLASS-B (QP) ENV216(N)-20120730 NEUTRAL  
EUT : Coolpad Flo  
Model Name : Coolpad 7560T  
Temp/Humi : 23 °C / 55%  
Power Rating: AC 120V/60Hz  
Mode : WIFI 11n  
Memo :

Freq	ReadAntenna		Cable Preamp		Limit Level	Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB				
1	0.15	38.04	10.29	0.09	0.00	48.42	65.74	-17.32 Peak
2	0.17	36.21	10.26	0.09	0.00	46.56	64.86	-18.30 Peak
3	0.51	31.56	10.41	0.10	0.00	42.07	56.00	-13.93 Peak
4 pp	0.55	32.88	10.39	0.11	0.00	43.38	56.00	-12.62 Peak
5	1.34	28.31	10.31	0.14	0.00	38.76	56.00	-17.24 Peak
6	16.05	26.91	10.53	0.11	0.00	37.55	60.00	-22.45 Peak

## **APPENDIX 1 PHOTOGRAHPS OF TEST SETUP**

Please refer to the file named “R38YL7560T\_Part15C Setup Photos”.

## **APPENDIX 2 PHOTOGRAHPS OF EUT**

Please refer to the two files named “R38YL560T\_External Photos” and  
“R38YL560T\_INternal Photos”.

----End of the report----