STC Test Report

Applicant (DOY012):	Striiv Inc. 2400 Broadway Ave. Suite 220, Redwood City, CA 94063
Manufacturer:	DongGuan YF Technology No.62.South Fumin Road,Fumin Industrial Park,Dalang Town,Dongguan Ctiy,GuangDong,P.R.China
Description of Sample(s):	Product: Striiv Activity Motivator Brand Name: Striiv Model Number: ACTVGM0001 FCC ID: ZXO-ACTVGM0001
Date Sample(s) Received:	2011-08-15
Date Tested:	2011-08-15, 2011-08-18
Investigation Requested:	Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2010 and ANSI C63.4:2009 for FCC Certification.
Conclusion(s):	The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.
Remark(s):	---

Dr. LEE Kam Chuen
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

CONTENT:

1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

1.2 Equipment Under Test [EUT]
Description of Sample(s)

Product:	Striiv Activity Motivator
Manufacturer:	DongGuan YF Technology
Brand Name:	Striiv
Model Number:	ACTVGM0001
Input Voltage:	5.0Vd.c. with Jack and Recharge Battery 3.7V*1Pc

The AC/DC adapter was provided by the applicant with following details:
Brand name: N/A; Model no.: LFS050500D-A8S; Input: 100-240Va.c. 50/60Hz 0.2A; Output: 5.0Vd.c. 500mA.

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Striiv Inc., Striiv Activity Motivator. The transmission signal is frequency hopping with channel frequency range 2401.0.-2480.0MHz during normal use. The EUT was set to fixed frequency test mode by application.

1.3 Date of Order

2011-08-15

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2011-08-15, 2011-08-18

1.6 Country of Origin

China

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2010 Regulations and ANSI C63.4:2009 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION
Results Summary

Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2009	N/A	☒	☐	☐
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	☒	☐	☐
Conducted Emissions	FCC 47CFR 15.207	N/A	N/A	☒	☐	☐

Note: N/A - Not Applicable

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Test Requirement:	FCC 47CFR 15.249
Test Method:	ANSI C63.4:2009
Test Date:	2011-08-15
Mode of Operation:	Tx mode / Charge mode / Connected to PC mode

Test Method:

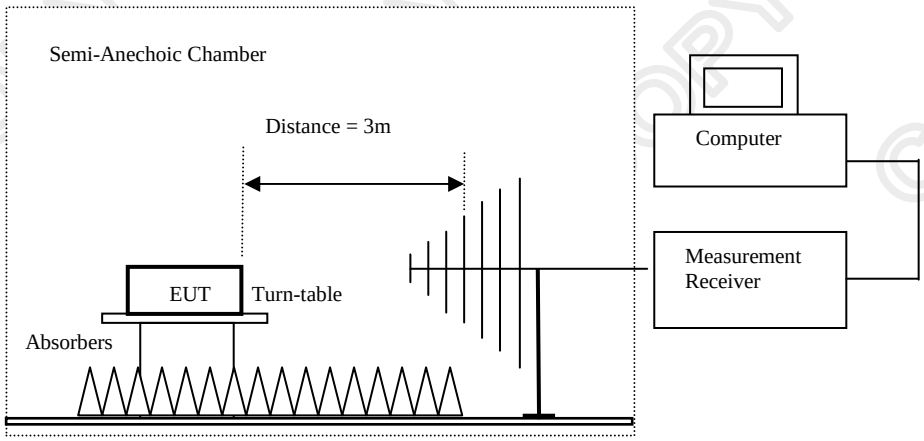
The sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW:	10kHz
	VBW:	30kHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold
30MHz – 1GHz (QP)	RBW:	120kHz
	VBW:	120kHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold
Above 1GHz (Pk & Av)	RBW:	3MHz
	VBW:	3MHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold

Test Setup:



Ground Plane

Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Low): Pass

Field Strength of Fundamental Emissions
Peak Value

Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2401.0	45.0	35.4	80.4	10,471.3	500,000	Vertical
4802.0	7.4	41.5	48.9	278.6	5,000	Vertical
7203.0	1.9	48.8	50.7	342.8	5,000	Vertical
* 12005.0	**No Emission Detected**				5,000	Vertical
14406.0					5,000	Vertical
16807.0					5,000	Vertical
* 19208.0					5,000	Vertical
21609.0					5,000	Vertical
24010.0					5,000	Vertical

Field Strength of Fundamental Emissions
Average Value

Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2401.0	29.7	35.4	65.1	1,798.9	50,000	Vertical
+ 4802.0	-7.9	41.5	33.6	47.9	500	Vertical
+ 7203.0	-13.4	48.8	35.4	58.9	500	Vertical

Remarks:
No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz
*: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

+: Adjusted by Duty Cycle = -15.3dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Middle): Pass

Field Strength of Fundamental Emissions
Peak Value

Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2440.0	42.9	35.5	78.4	8,317.6	500,000	Vertical
4880.0	5.3	41.4	46.7	216.3	5,000	Vertical
7320.0	0.8	48.7	49.5	298.5	5,000	Vertical
9760.0	**No Emission Detected**				5,000	Vertical
* 12200.0					5,000	Vertical
14640.0					5,000	Vertical
17080.0					5,000	Vertical
* 19520.0					5,000	Vertical
21960.0					5,000	Vertical

Field Strength of Fundamental Emissions
Average Value

Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2440.0	27.6	35.5	63.1	1,428.9	50,000	Vertical
+ 4880.0	-10.0	41.4	31.4	37.2	500	Vertical
+ 7320.0	-14.5	48.7	34.2	51.3	500	Vertical

Remarks:
No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz
*: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.
+: Adjusted by Duty Cycle = -15.3dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (High): Pass

Field Strength of Fundamental Emissions
Peak Value

	Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
	2480.0	42.6	35.7	78.3	8,222.4	500,000	Vertical
	4960.0	7.8	41.9	49.7	305.5	5,000	Vertical
	7440.0	4.5	48.7	53.2	457.1	5,000	Vertical
	9920.0	**No Emission Detected**				5,000	Vertical
*	12400.0					5,000	Vertical
	14880.0					5,000	Vertical
	17360.0					5,000	Vertical
*	19840.0					5,000	Vertical
	22320.0					5,000	Vertical
	24800.0					5,000	Vertical

Field Strength of Fundamental Emissions
Average Value

	Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+	2480.0	27.3	35.7	63.0	1,412.5	50,000	Vertical
+	4960.0	-7.5	41.9	34.4	52.5	500	Vertical
+	7440.0	-10.8	48.7	37.9	78.5	500	Vertical

Remarks:
No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz
*: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.
+: Adjusted by Duty Cycle = -15.3dB

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB
1GHz to 18GHz 5.1dB

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

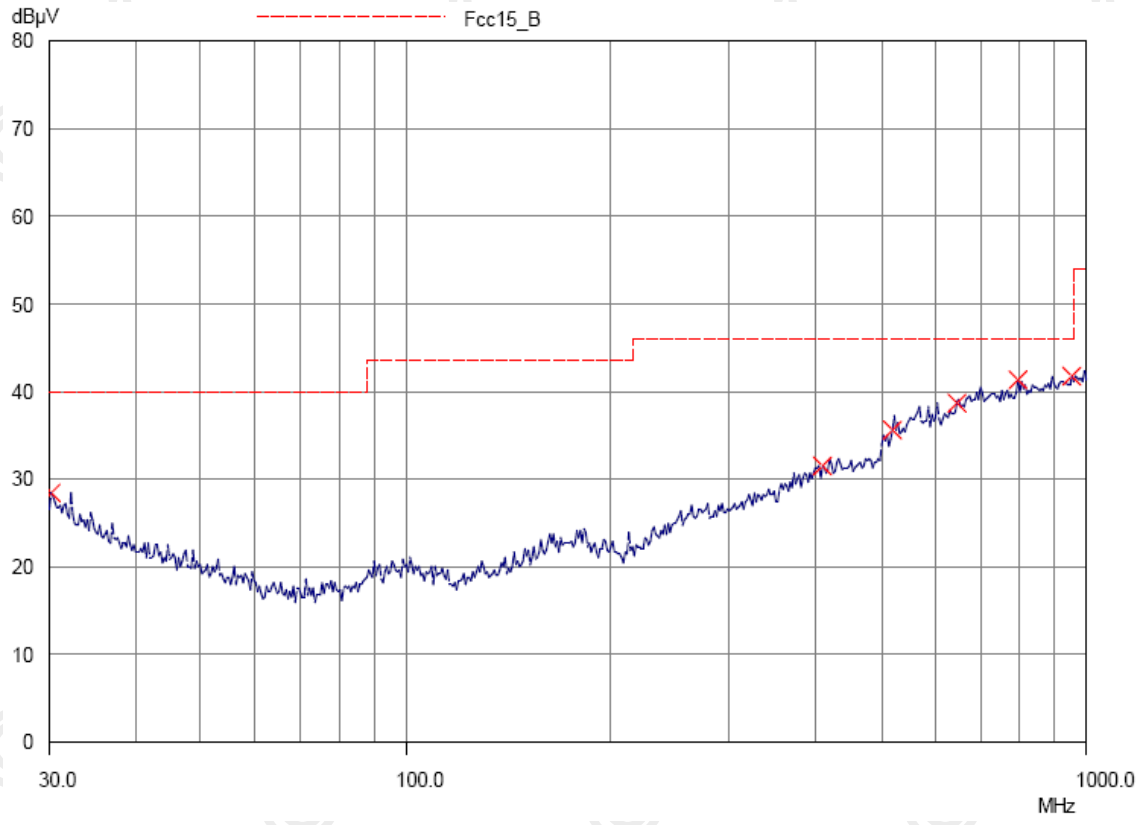
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Tx mode(9kHz-30MHz): PASS
Emissions detected are more than 20 dB below the FCC Limits

Results of Tx mode(30MHz-1000MHz): PASS
Please refer to the following table for result details

Horizontal



Results of Tx mode(30MHz-1000MHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
30.1	Horizontal	28.5	40.0	26.6	100
408.8	Horizontal	31.6	46.0	38.0	200
516.4	Horizontal	35.5	46.0	59.6	200
643.3	Horizontal	38.6	46.0	85.1	200
791.6	Horizontal	40.4	46.0	104.7	200
947.0	Horizontal	40.8	46.0	109.6	200

Results of Tx on mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Tx on mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:
Correction Factor includes Antenna Factor and Cable Attenuation.
Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

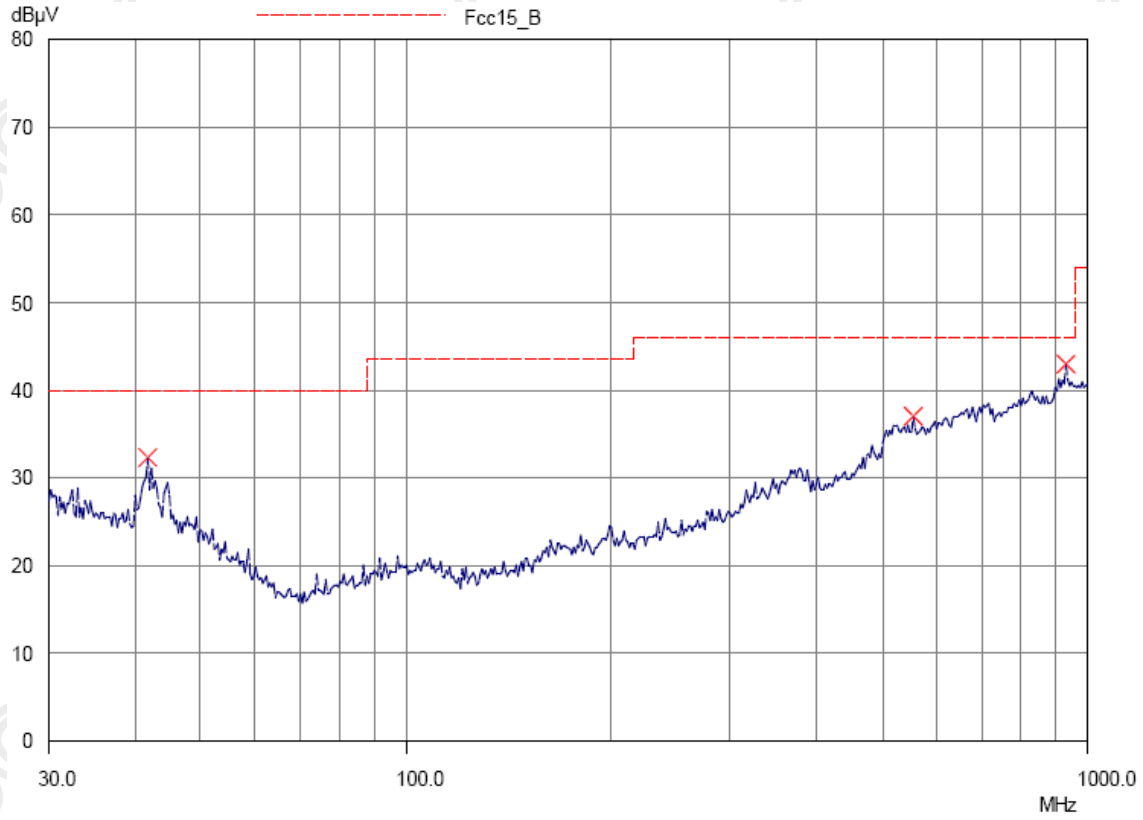
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Tx mode(9kHz-30MHz): PASS
Emissions detected are more than 20 dB below the FCC Limits

Results of Tx mode(30MHz-1000MHz): PASS
Please refer to the following table for result details

Vertical



Results of Tx mode(30MHz-1000MHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
41.8	Vertical	32.3	40.0	41.2	100
551.9	Vertical	37.0	46.0	70.8	200
926.0	Vertical	40.7	46.0	108.4	200

Results of Tx on mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Tx on mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:
Correction Factor includes Antenna Factor and Cable Attenuation.
Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

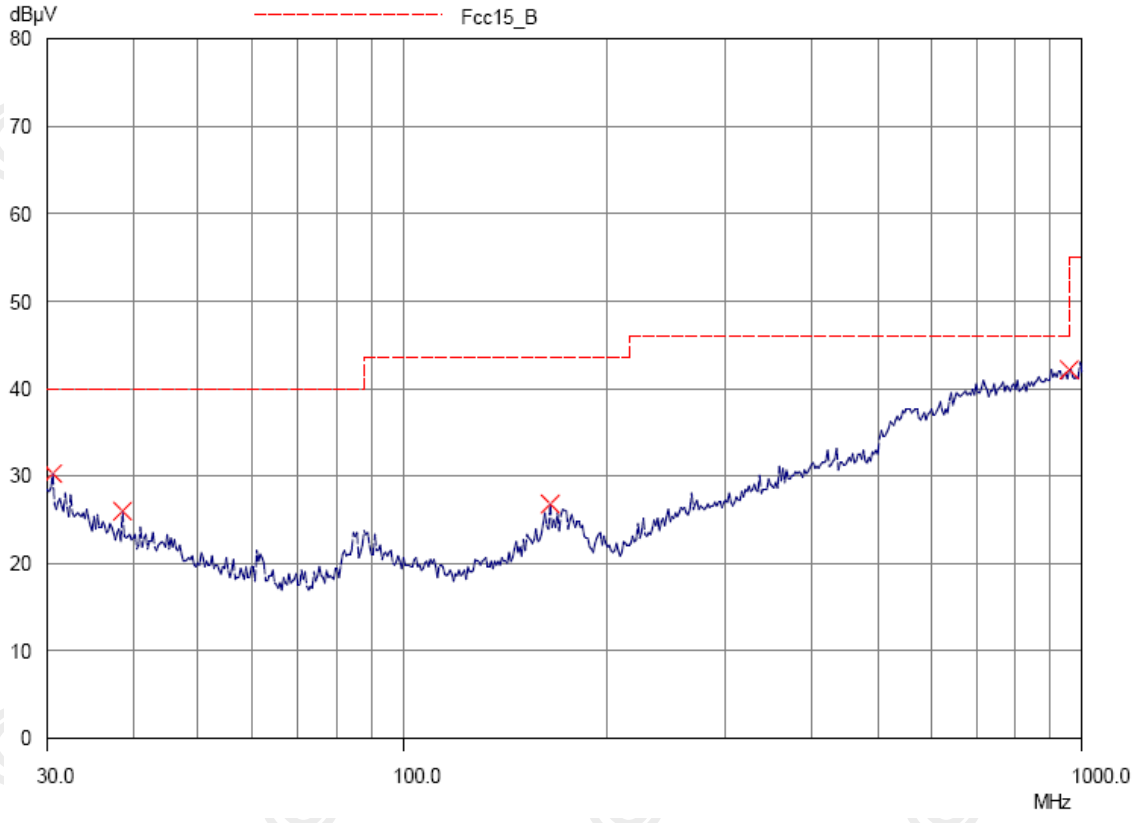
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Charge mode(9kHz-30MHz): PASS
Emissions detected are more than 20 dB below the FCC Limits

Results of Charge mode(30MHz-1000MHz): PASS
Please refer to the following table for result details

Horizontal



Results of Charge mode(30MHz-1000MHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
30.4	Horizontal	30.2	40.0	32.4	100
38.5	Horizontal	26.1	40.0	20.2	100
165.2	Horizontal	26.9	43.5	22.1	150
954.0	Horizontal	40.2	46.0	102.3	200

Results of Charge mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Charge mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:
Correction Factor includes Antenna Factor and Cable Attenuation.
Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

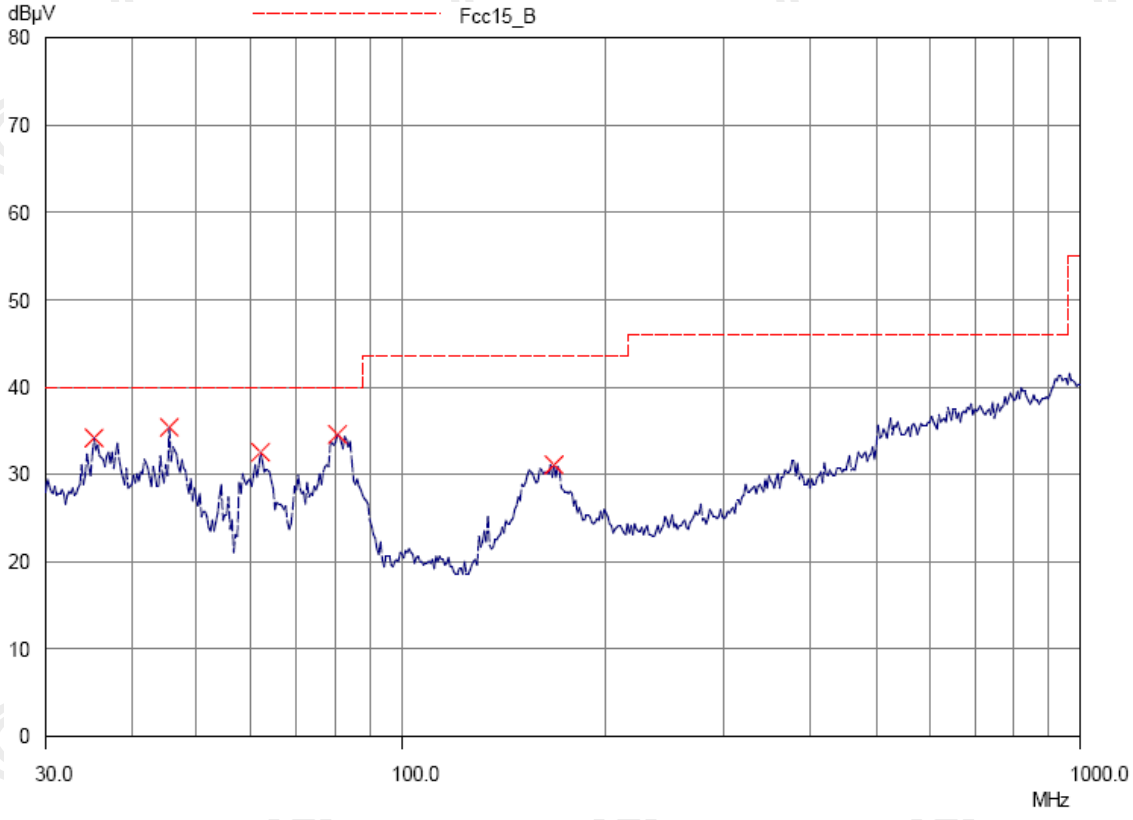
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Charge mode(9kHz-30MHz): PASS
Emissions detected are more than 20 dB below the FCC Limits

Results of Charge mode(30MHz-1000MHz): PASS
Please refer to the following table for result details

Vertical



Results of Charge mode(30MHz-1000MHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
35.2	Vertical	34.3	40.0	51.9	100
45.6	Vertical	35.4	40.0	58.9	100
62.1	Vertical	32.5	40.0	42.2	100
80.4	Vertical	34.5	40.0	53.1	100
168.3	Vertical	31.2	43.5	36.3	150

Results of Charge mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Charge mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:
Correction Factor includes Antenna Factor and Cable Attenuation.
Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

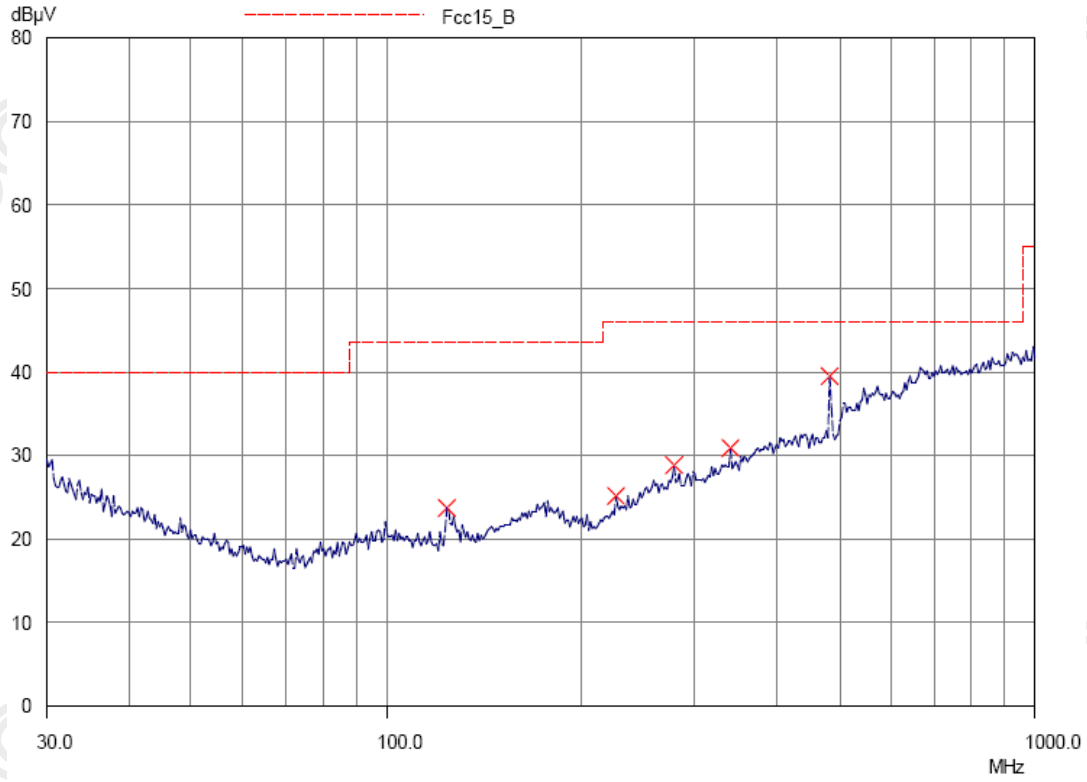
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Connected to PC mode(9kHz-30MHz): PASS
Emissions detected are more than 20 dB below the FCC Limits

Results of Connected to PC mode(30MHz-1000MHz): PASS
Please refer to the following table for result details

Horizontal



Results of Connected to PC mode(30MHz-1000MHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
123.9	Horizontal	23.7	43.5	15.3	150
224.9	Horizontal	25.2	46.0	18.2	200
276.3	Horizontal	28.9	46.0	27.9	200
338.7	Horizontal	30.9	46.0	35.1	200
480.0	Horizontal	39.5	46.0	94.4	200

Results of Connected to PC mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Connected to PC mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:
Correction Factor includes Antenna Factor and Cable Attenuation.
Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

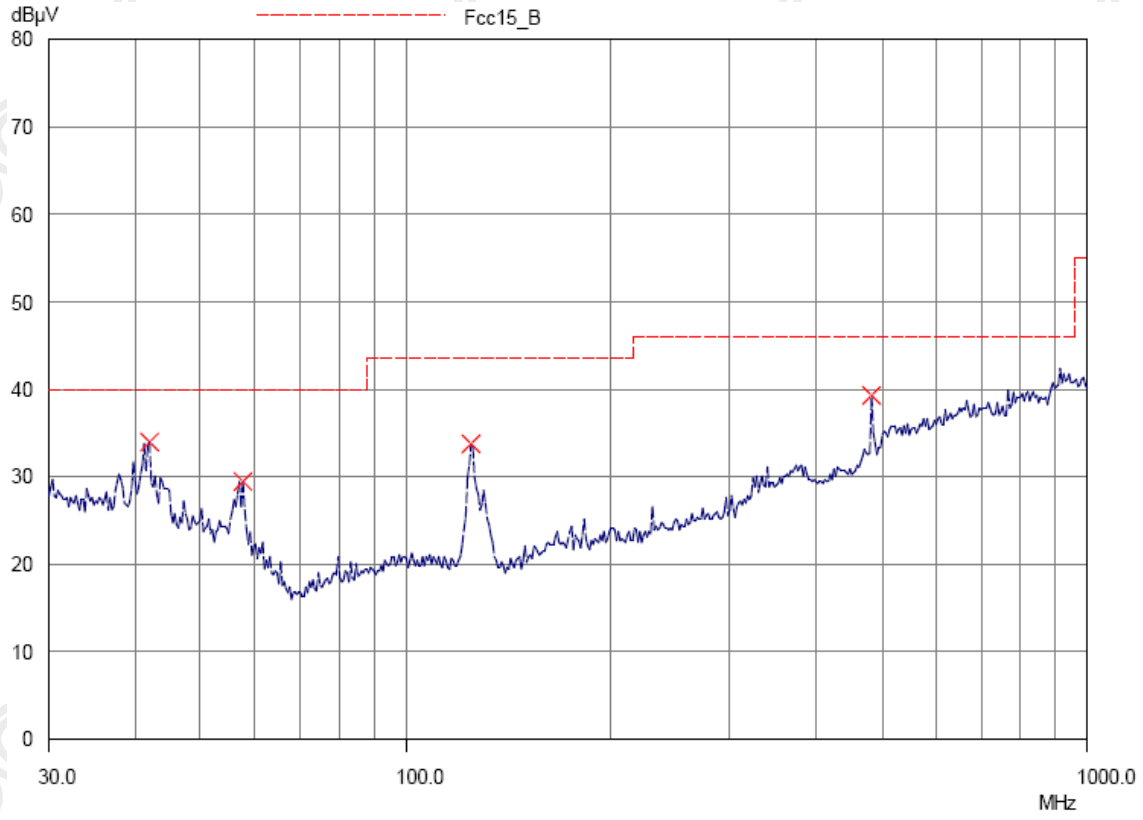
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Connected to PC mode(9kHz-30MHz): PASS
Emissions detected are more than 20 dB below the FCC Limits

Results of Connected to PC mode(30MHz-1000MHz): PASS
Please refer to the following table for result details

Vertical



Results of Connected to PC mode(30MHz-1000MHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
42.0	Vertical	34.0	40.0	50.1	100
57.5	Vertical	29.5	40.0	29.9	100
125.1	Vertical	33.8	43.5	49.0	150
480.0	Vertical	39.2	46.0	91.2	200

Results of Connected to PC mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Results of Connected to PC mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit μV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Remarks:
Correction Factor includes Antenna Factor and Cable Attenuation.
Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

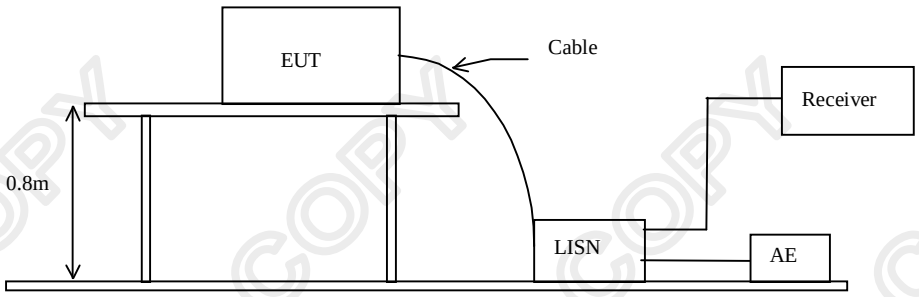
3.1.6 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
Test Method: ANSI C63.4:2003
Test Date: 2011-08-18
Mode of Operation: Charge mode / Connected to PC mode
Measurement Range: 150KHz -30MHz (RBW:10KHz, VBW:30KHz)

Test Method:

The test was performed in accordance with ANSI C63.4: 2003, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



Limit for Conducted Emissions (FCC 47 CFR 15.207):

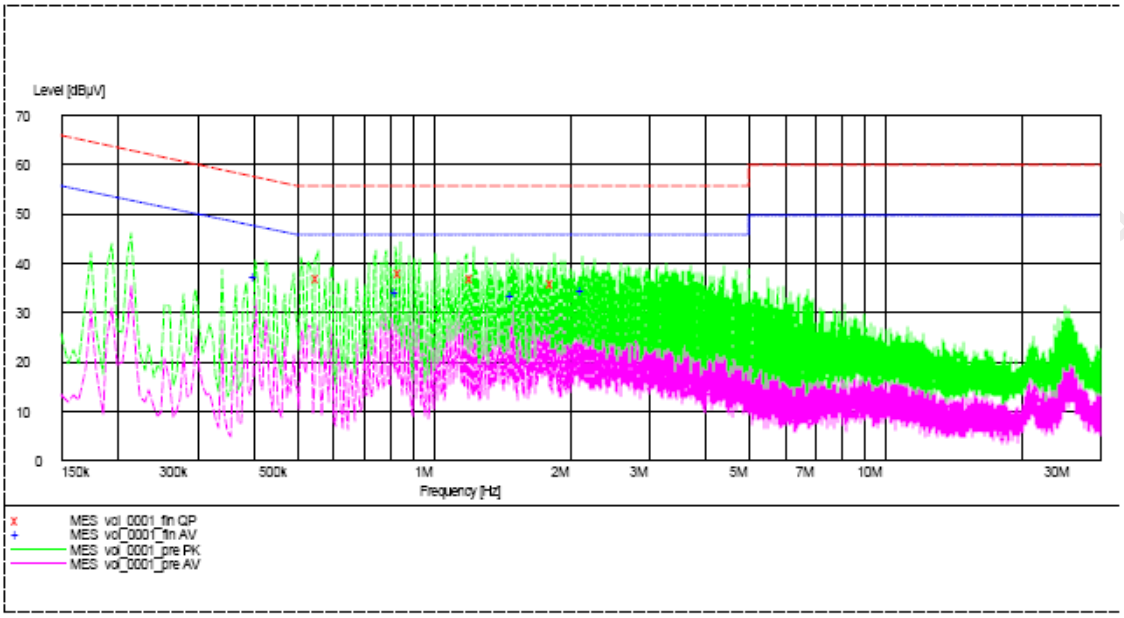
Frequency Range [MHz]	Quasi-Peak Limits [dBµV]	Average [dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Charge mode(L): PASS

Please refer to the following diagram for individual results.



Remark:

Calculated measurement uncertainty : 3.97dB

Limit for Conducted Emissions (FCC 47 CFR 15.207):

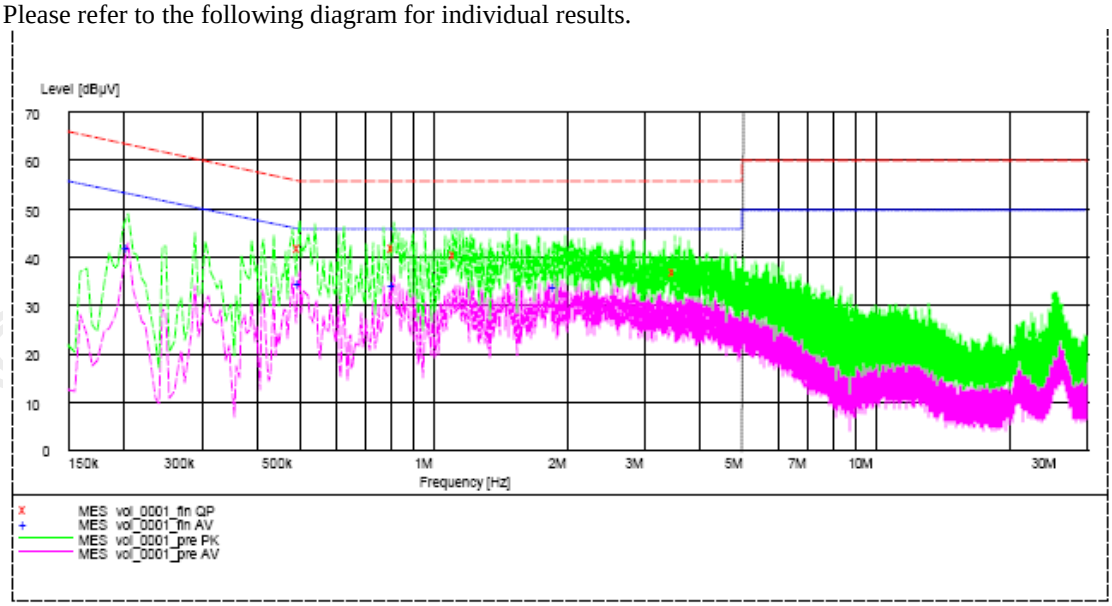
Frequency Range [MHz]	Quasi-Peak Limits [dBµV]	Average [dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Charge mode(N): PASS

Please refer to the following diagram for individual results.



Remarks

Calculated measurement uncertainty : 3.97dB

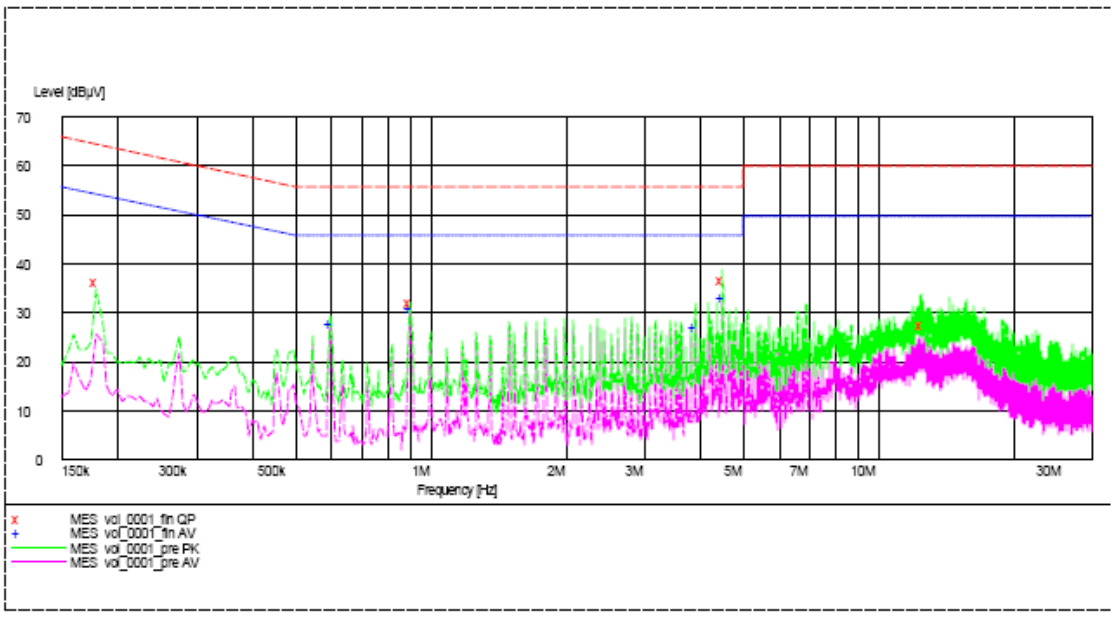
Limit for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range [MHz]	Quasi-Peak Limits [dBµV]	Average [dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Connected to PC mode, PC mains (L): PASS
Please refer to the following diagram for individual results.



Remark:
Calculated measurement uncertainty : 3.97dB

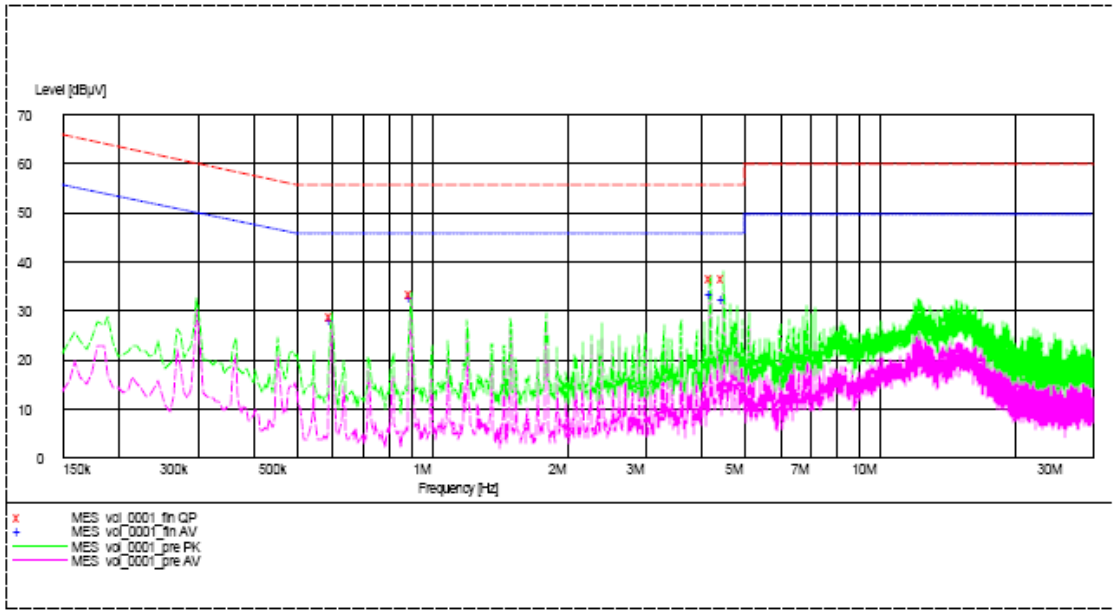
Limit for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range [MHz]	Quasi-Peak Limits [dBµV]	Average [dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Connected to PC mode, PC mains (N): PASS
Please refer to the following diagram for individual results.

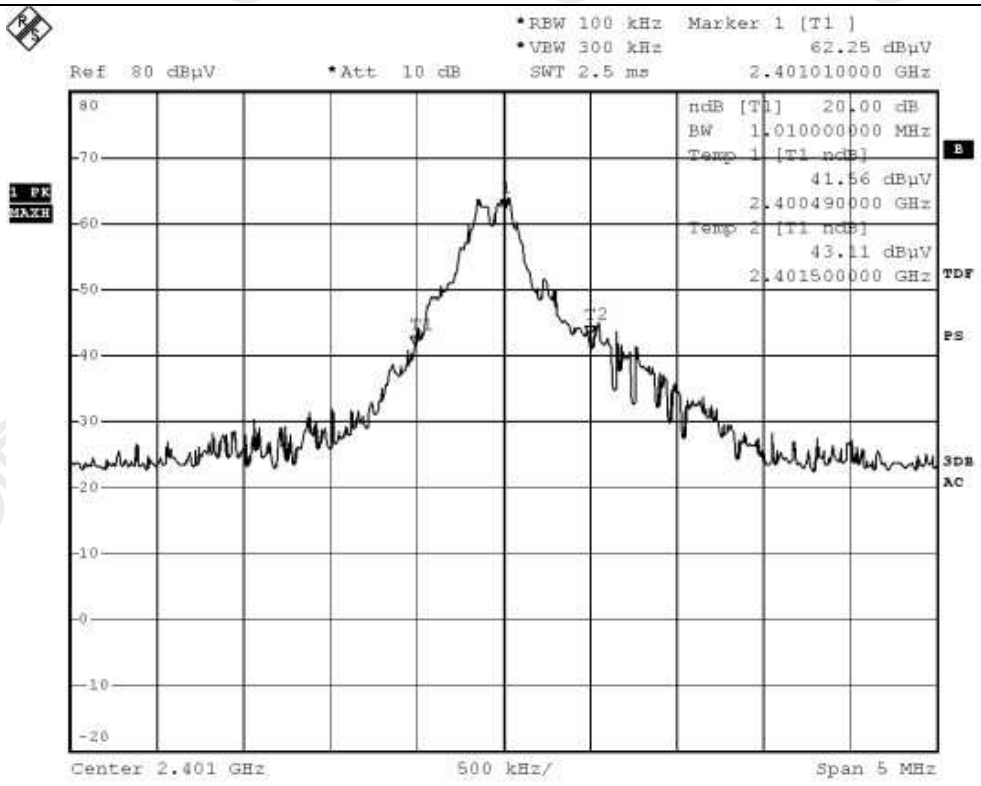


Remarks
Calculated measurement uncertainty : 3.97dB

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2401	1.01

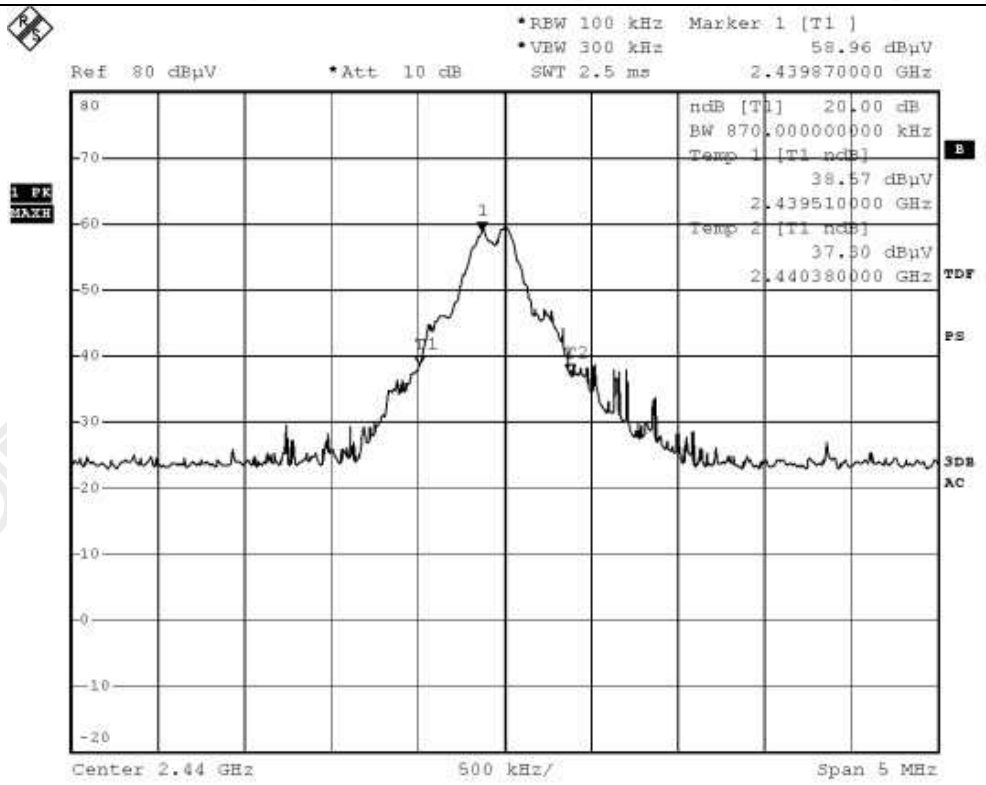
20dB Bandwidth of Fundamental Emission



Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2440	0.87

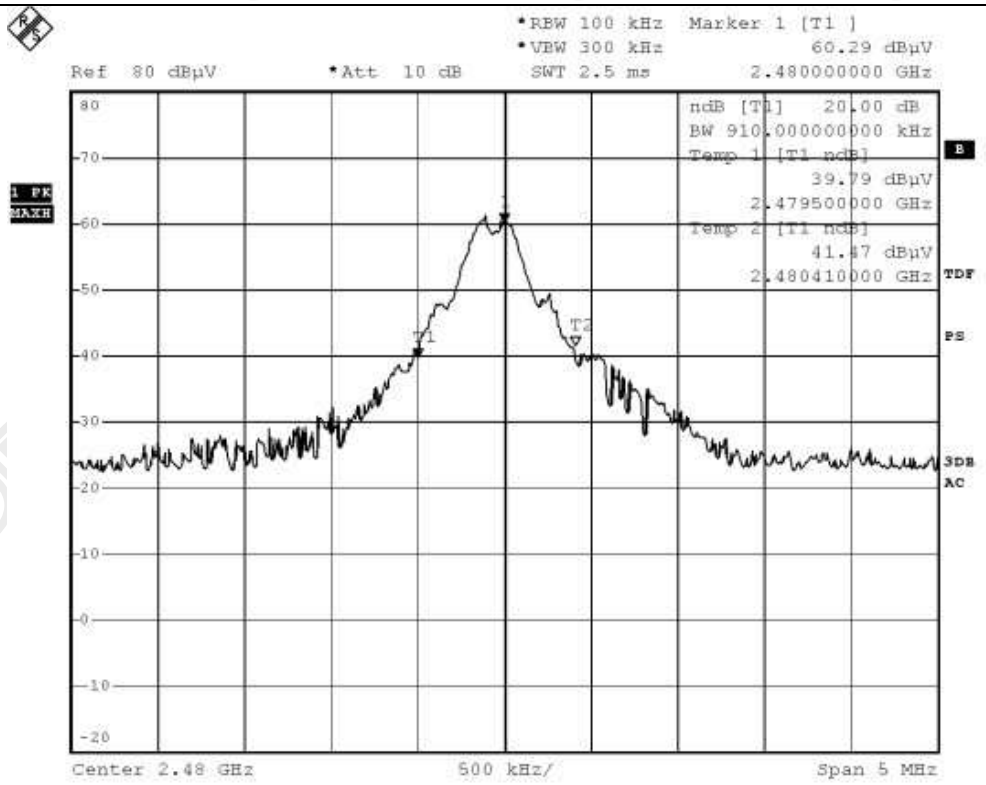
20dB Bandwidth of Fundamental Emission



Limits for 20dB Bandwidth of Fundamental Emission:

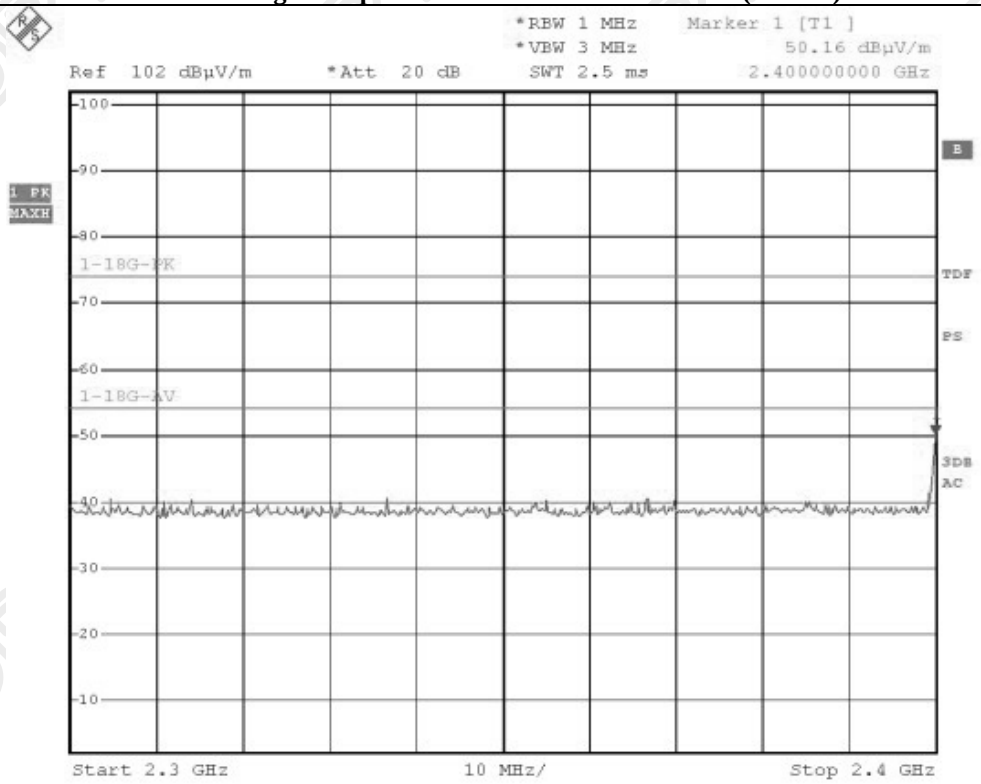
Frequency Range [MHz]	20dB Bandwidth [MHz]
2480	0.91

20dB Bandwidth of Fundamental Emission



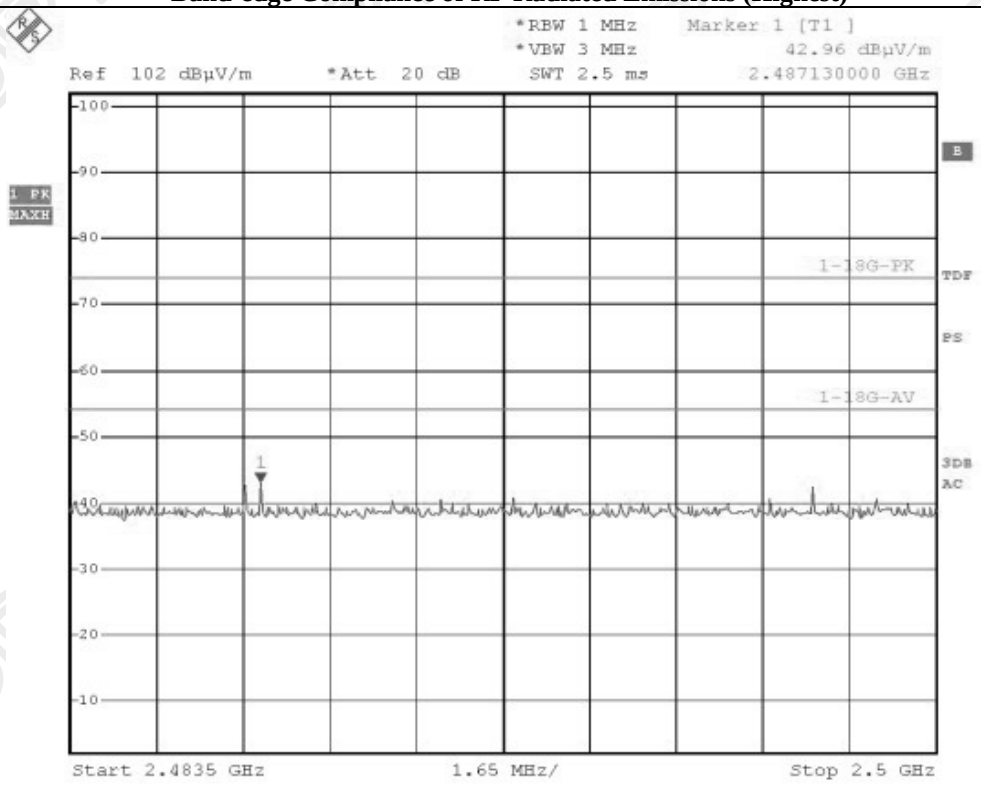
Band Edge Measurement:

Band-edge Compliance of RF Radiated Emissions(Lowest)



Band Edge Measurement:

Band-edge Compliance of RF Radiated Emissions (Highest)



Channel Centre Frequency

Requirements:
Frequency hopping system in the 2400-2483.5MHz band shall use at least 15 non-overlapping channels.

Item	Frequency (MHz)	Item	Frequency (MHz)	Item	Frequency (MHz)
1	2401	28	2428	55	2456
2	2402	29	2429	56	2457
3	2403	30	2430	57	2458
4	2404	31	2432	58	2459
5	2405	32	2433	59	2460
6	2406	33	2434	60	2461
7	2407	34	2435	61	2462
8	2408	35	2436	62	2463
9	2409	36	2437	63	2464
10	2410	37	2438	64	2465
11	2411	38	2439	65	2466
12	2412	39	2440	66	2467
13	2413	40	2441	67	2468
14	2414	41	2442	68	2469
15	2415	42	2443	69	2470
16	2416	43	2444	70	2471
17	2417	44	2445	71	2472
18	2418	45	2446	72	2473
19	2419	46	2447	73	2474
20	2420	47	2448	74	2475
21	2421	48	2449	75	2476
22	2422	49	2450	76	2477
23	2423	50	2451	77	2478
24	2424	51	2452	78	2479
25	2425	52	2453	79	2480
26	2426	53	2454	79	2480
27	2427	54	2455		

Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM020	HORN ANTENNA	EMCO	3115	4032	2009/09/02	2011/09/02
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--	2010/10/25	2011/11/25
EM174	BICONILOG ANTENNA	EMCO	3142B	1671	2010/02/09	2012/02/09
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2009-09-07	2011-09-07
EM229	EMI Test Receiver	R&S	ESIB40	100248	2011/04/26	2012/04/26

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM197	LISN	EMCO	4825/2	1193	2010/10/13	2011/10/13
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2011/04/26	2012/04/26
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2011/01/23	2012/01/23

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

Appendix B

Duty Cycle Correction During 100msec

Each sample unit sends a different series of characters, but each pulse period (100msec) never exceeds a series of 15 sole (1.15msec) pulses. Assuming any combination of sole pulses may be obtained due to encoding the worst case transmit duty cycle would be considered 15×1.15msec per 100msec=17.25% duty cycle. Figure A through B show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction = 20Log (0.1725) =-15.3 dB
Duty Cycle Correction = -20dB, if the calculation duty cycle correction >-20dB.

The following figures [Figure A to Figure B] showed the characteristics of the pulse train for one of these functions.

Figure A [Pulse Train]

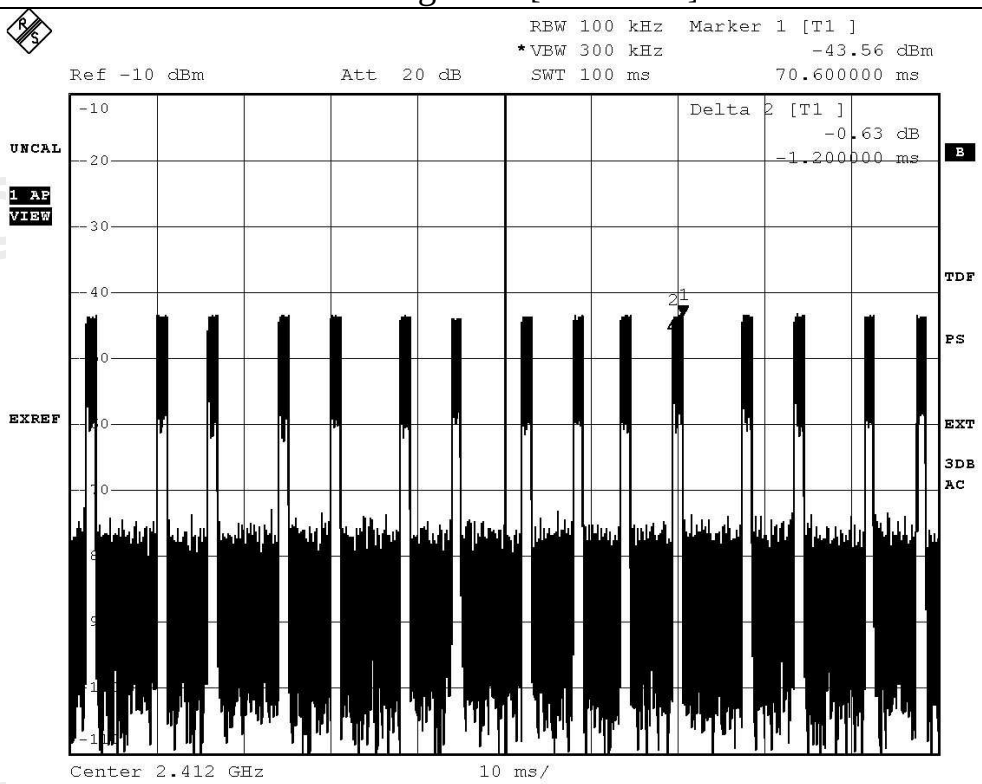
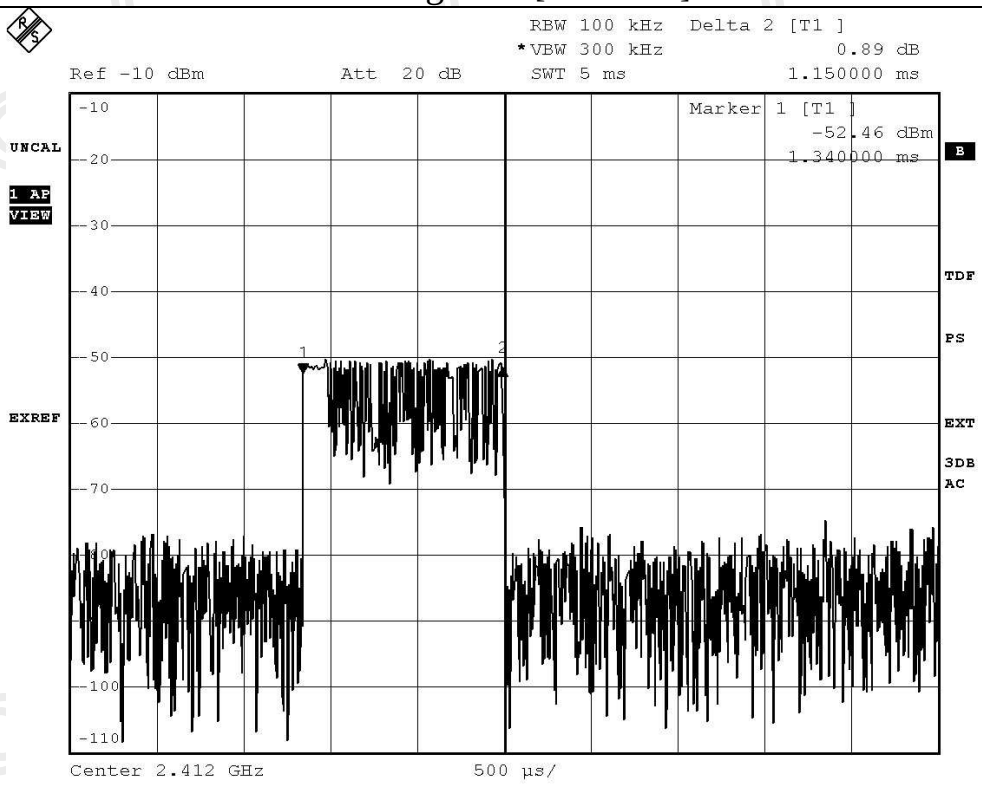


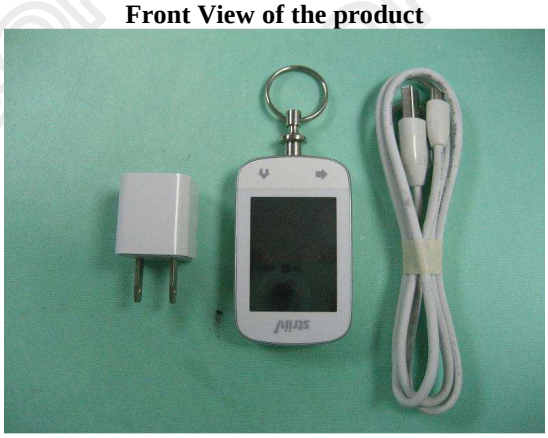
Figure B [Sole Pulse]



Appendix C

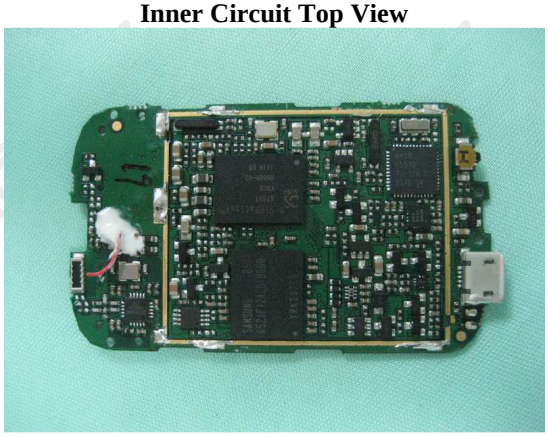
Photographs of EUT

Front View of the product

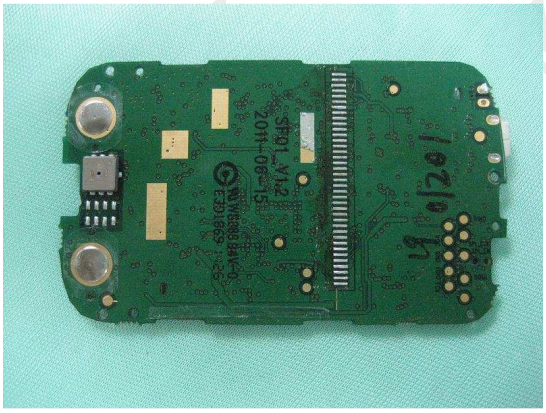


Rear View of the product

Inner Circuit Top View

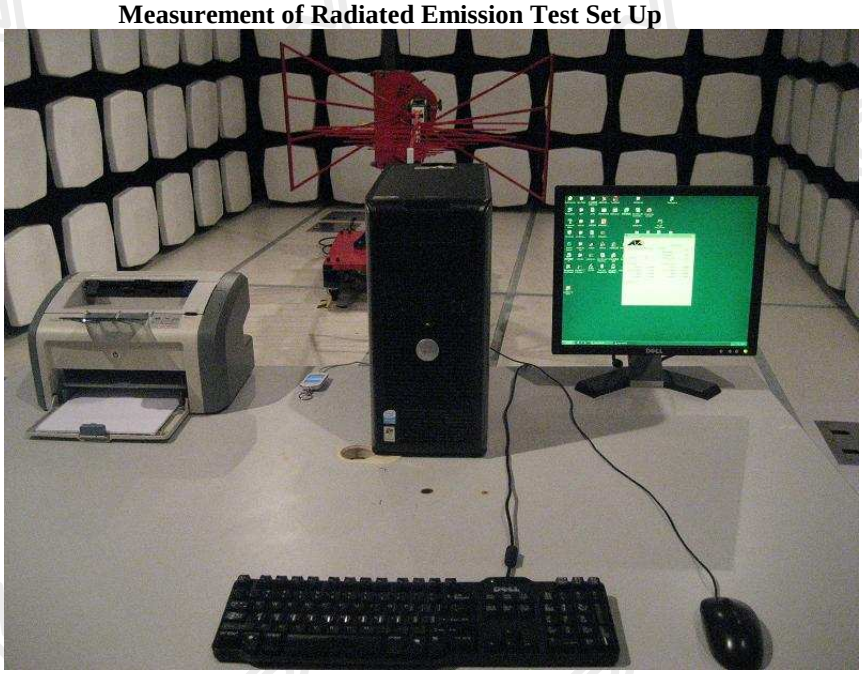


Inner Circuit Bottom View

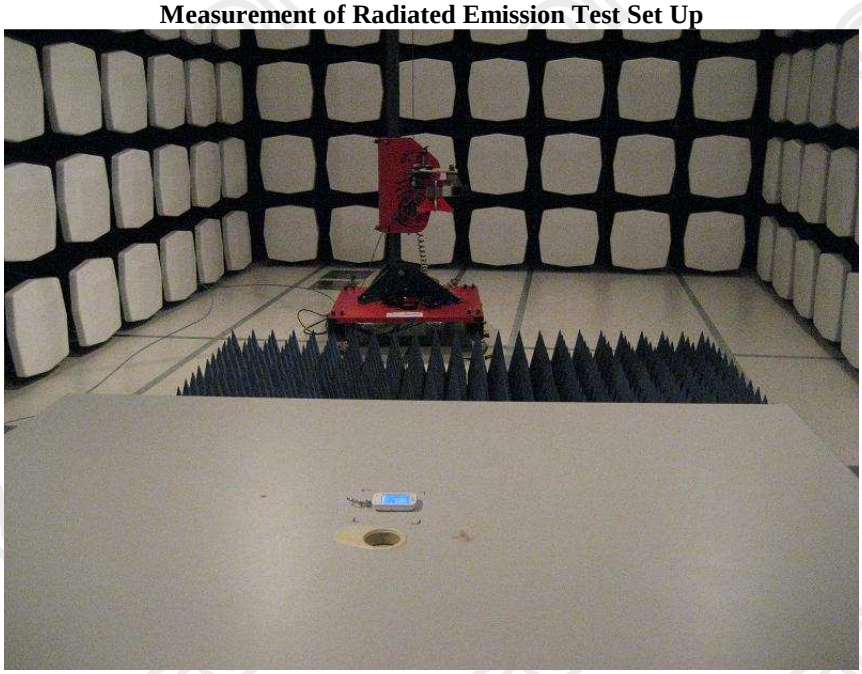


Photographs of EUT

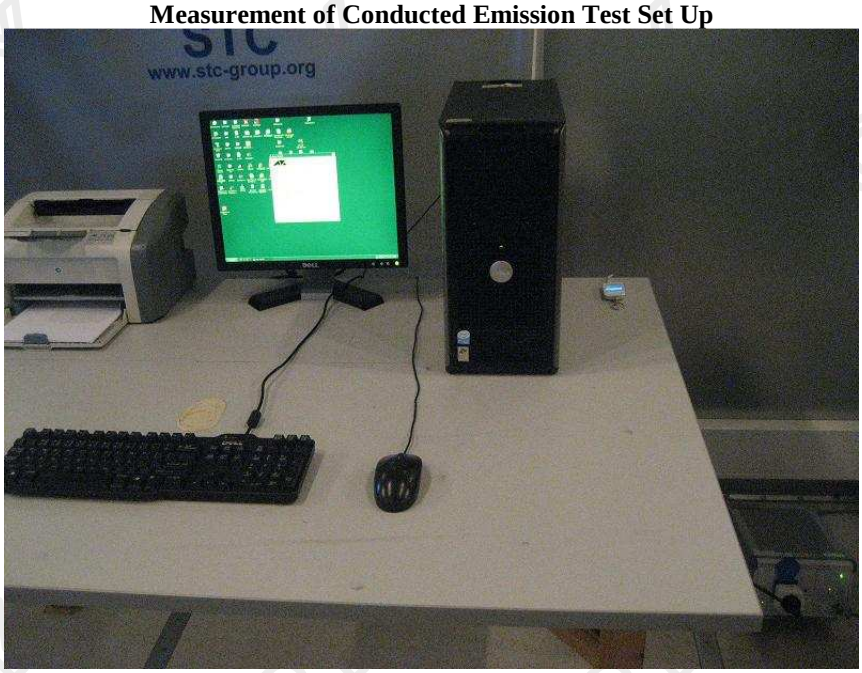
Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



******* End of Test Report *******