



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

TPM Sensor

Model: PA1-007

**Data Applies To : PA1-001; PA1-002; PA1-003; PA1-004; PA1-005;
PA1-008; PA1-011; PA1-012; PA1-013**

Trade Name: SMP

Issued to

Standard Motor Products, Inc.

37-18 Northern Boulevard, Long Island City, New York 11101

Issued by

**Compliance Certification Services Inc.
Tainan Lab.**

No. 8, Jiu Ceng Ling, Jiaokeng Village, Sinhua
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Issued Date : August 05, 2011



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REVISION HISTORY

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	March 28, 2011	Initial Issue	ALL	Sunny Chang
01	May 11, 2011	Add test data	Page 15	Sunny Chang
02	July 25, 2011	Update test data	Page 22~24	Sunny Chang
03	July 29, 2011	Update test data	Page 15,17,18,22-24	Sunny Chang
04	August 05, 2011	Update test data	Page 13-14, 22-24	Sunny Chang



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1. TEST RESULT CERTIFICATION

Applicant: Standard Motor Products, Inc.
 37-18 Northern Boulevard, Long Island City, New York
 11101

Equipment Under Test: TPM Sensor

Trade Name: SMP

Model: PA1-007

Data Applies To PA1-001; PA1-002; PA1-003; PA1-004; PA1-005; PA1-008;
 PA1-011; PA1-012; PA1-013

Date of Test: October 13, 2010 ~ August 04, 2011

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209 and Part 15.231(e).

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Jeter Wu
 Assistant Manager
 Compliance Certification Services Inc.

Reviewed by:

Eric Huang
 Assistant Section Manager
 Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	TPM Sensor
Trade Name	SMP
Model Number	PA1-007
Data Applies To	PA1-001; PA1-002; PA1-003; PA1-004; PA1-005; PA1-008; PA1-011; PA1-012; PA1-013
Model Difference	To add a series model is for business necessary. The products are all the same except for different model number.
Power Supply	battery 3Vdc
Frequency Range	315 MHz
Modulation Technique	FSK Modulation (Single mode)
Antenna Designation	Monopole Antenna

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for FCC ID: **XVBA1B01** filing to comply with Section 15.207, 15.209 and 15.231(e) of the FCC Part 15, Subpart C Rules.



3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 (2003) and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.231(e).

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.



3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

After the preliminary test, the EUT (model: **PA1-007** had found to emit the worst emissions and therefore had been tested under normal operating and standby condition. Hardware used to control the EUT for staying in continuous transmitting and receiving mode for testing.



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Open Area Test Site # 6				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
TYPE N COAXIAL CABLE	SUHNER	CHA9513	6	NOV. 17, 2011
BI-LOG Antenna	Sunol	JB1	A070506-2	OCT. 04, 2011
LOOP ANTENNA	EMCO	6502	8905-2356	JUN. 10, 2012
Pre-Amplifier	HP	8447F	2944A03817	NOV. 23, 2011
EMI Receiver	R&S	ESVS10	833206/012	MAY 10, 2012
RF Cable	SUHNER	SUCOFLEX104PEA	20520/4PEA	NOV. 10, 2011
Horn Antenna	Com-Power	AH-118	071032	DEC. 27, 2011
Spectrum Analyzer	R&S	FSEK 30	835253/002	JUL. 14, 2012
Pre-Amplifier	MITEQ	AFS44-00108650-42-1 0P-44	1205908	NOV. 23, 2011
Turn Table	Yo Chen	001	-----	N.C.R.
Antenna Tower	AR	TP1000A	309874	N.C.R.
Controller	CT	SC101	-----	N.C.R.
RF Swicth	E-INSTRUMENT TELH LTD	ERS-180A	EC1204141	N.C.R.
Test S/W	e-3 (5.04303e)			

Remark: Each piece of equipment is scheduled for calibration once a year.



4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz Test Site : OATS-6	±3.59dB
Radiated Emission, 200 to 1000 MHz Test Site : OATS-6	±3.27dB
Radiated Emission, 1 to 26.5 GHz	± 3.20dB
Power Line Conducted Emission	± 2.90dB

Uncertainty figures are valid to a confidence level of 95%, k=2



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 8, Jiu Ceng Ling, Jiaokeng Village, Sinhua Township, Tainan Hsien 712, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.7:1992, ANSI C63.4 : 2003 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."



5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
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The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Germany	TÜV NORD
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	N/A	-----	-----	-----	-----

No.	Signal cable description	
A	N/A	-----

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



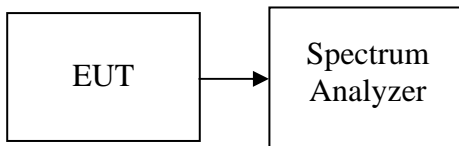
7. FCC PART 15.231 REQUIREMENTS

7.1 20DB BANDWIDTH

LIMIT

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the transmitter frequency. The RBW is set to 10 kHz and VBW is set 30kHz.

TEST RESULTS

No non-compliance noted.

Test Data

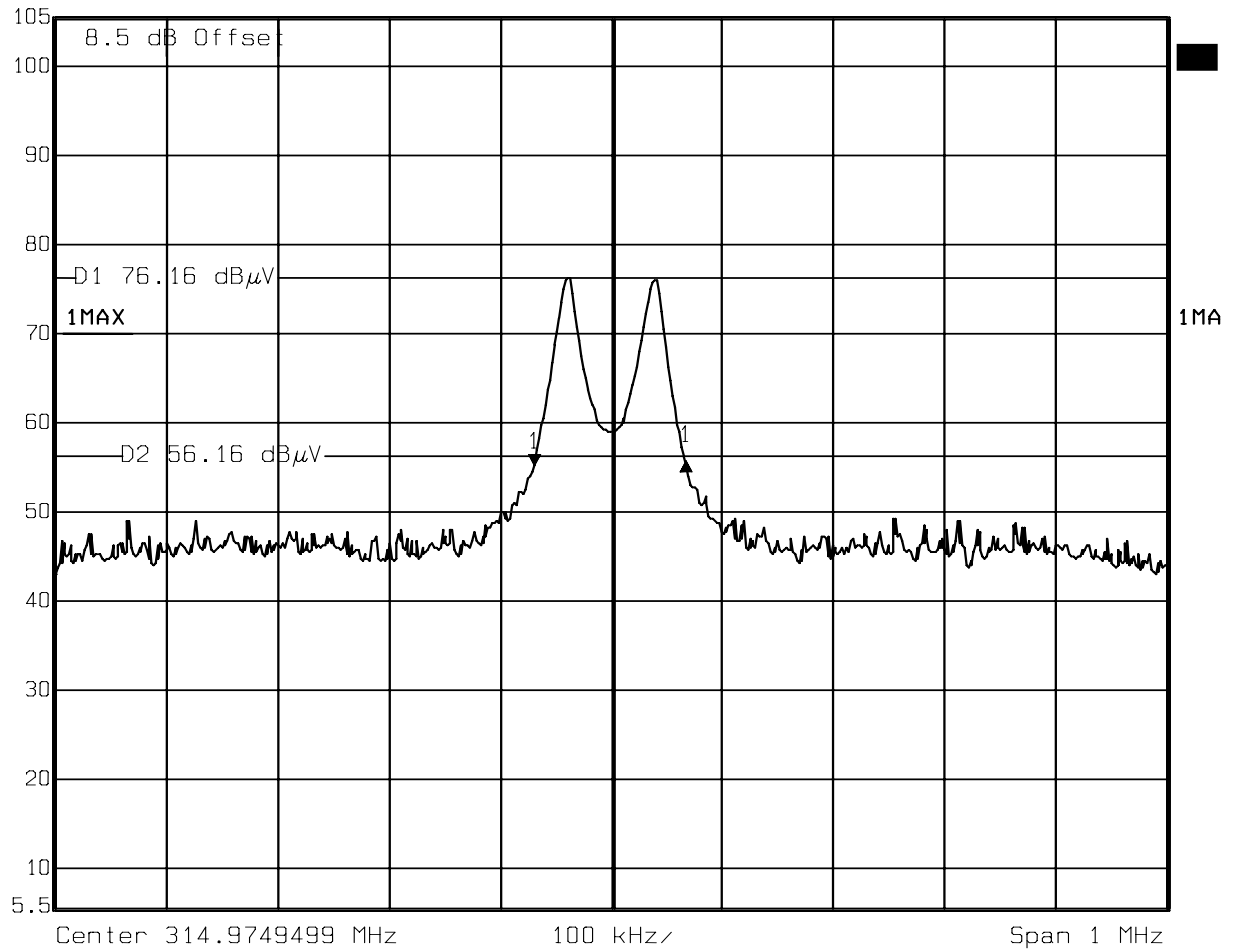
Frequency (MHz)	20dB Bandwidth (KHz)	Limit (KHz)	Result
315	136.2725451	787.5	PASS



Test Plot



Delta 1 [T1] RBW 10 kHz RF Att 0 dB
Ref Lvl 0.85 dB VBW 30 kHz
105.5 dB μ V 136.27254509 kHz SWT 25 ms Unit dB μ V



Date: 04.AUG.2011 16:54:07

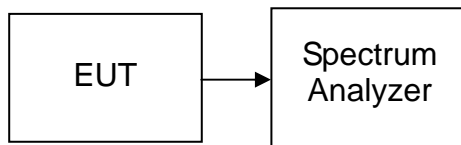


7.2 LIMIT OF TRANSMISSION TIME

LIMIT

According to 15.231(e), in addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the transmitter frequency. The RBW and VBW are set to 1MHz.

TEST RESULTS

No non-compliance noted

Test Data

Limit of transmission time

Frequency (MHz)	Transmission Time (s)	Limit (Second)	Result
315	0.2004	1	PASS

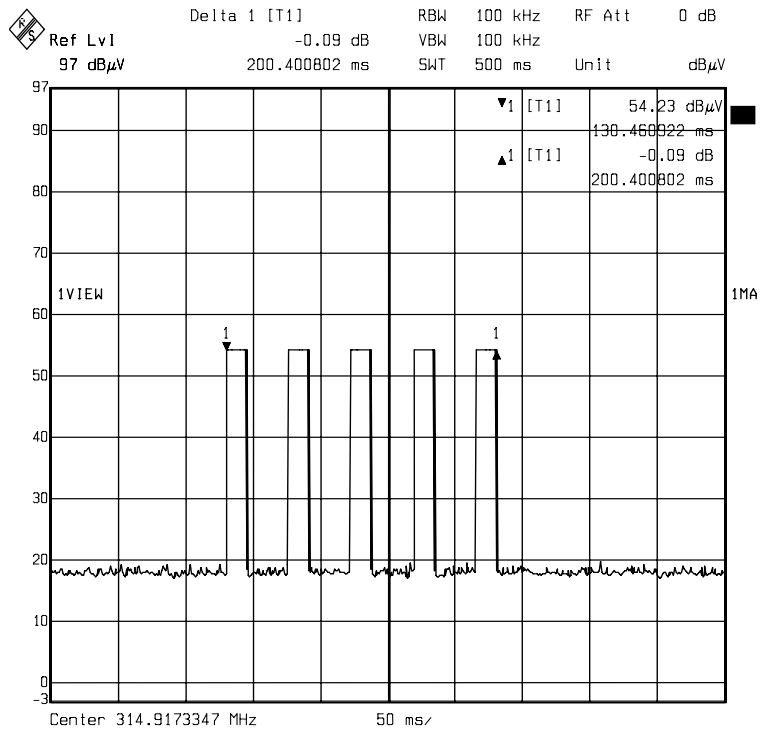
Silent period between transmission

Frequency (MHz)	silent period between transmissions (s)	Limit (Second)	Result
315	60.460922	10	PASS



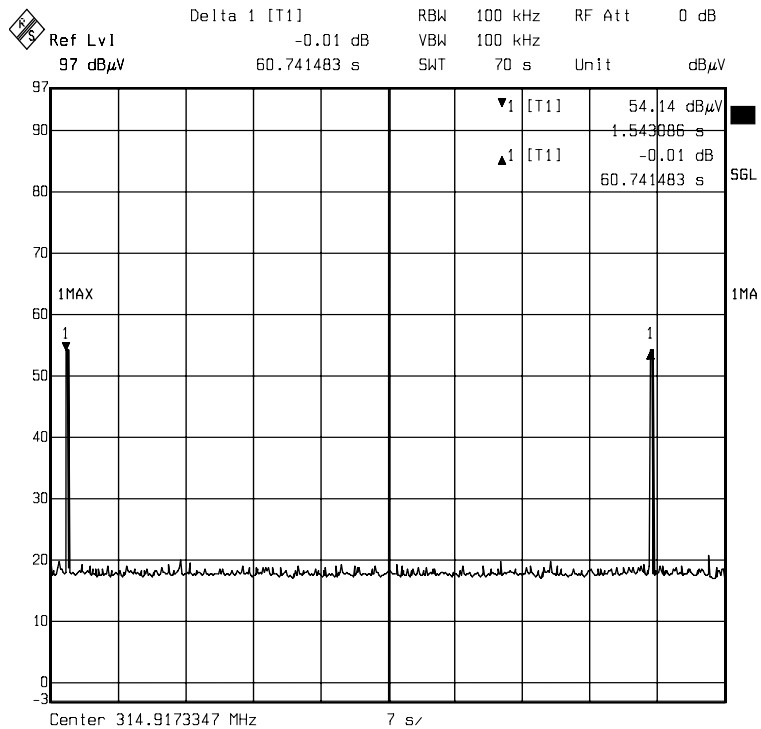
Test Plot

transmission time



Date: 18.APR.2011 14:39:35

silent period between transmissions



Date: 18.APR.2011 14:22:27

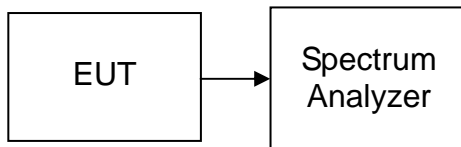


7.3 DUTY CYCLE CORRECTION FACTOR

LIMIT

Nil (No dedicated limit specified in the Rules)

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Adjust Sweep = 100ms.
5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data

$T_p = 200.4008\text{ms}$

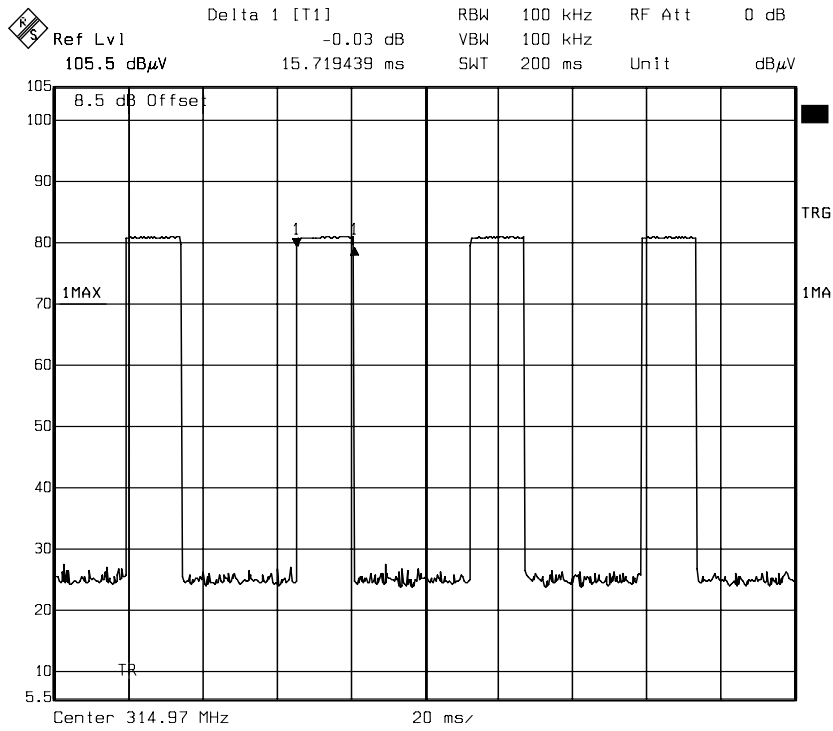
$T_{on} = 15.719\text{ms} * 5 \text{ times} = 78.595\text{ms}$

$\text{Factor} = 20 * \log(T_{on} / T_p) = 20 * \log(78.595/100) = -2.092\text{dB}$

Remark: $T_p > 100\text{ms}$. Use 100ms for calculation.

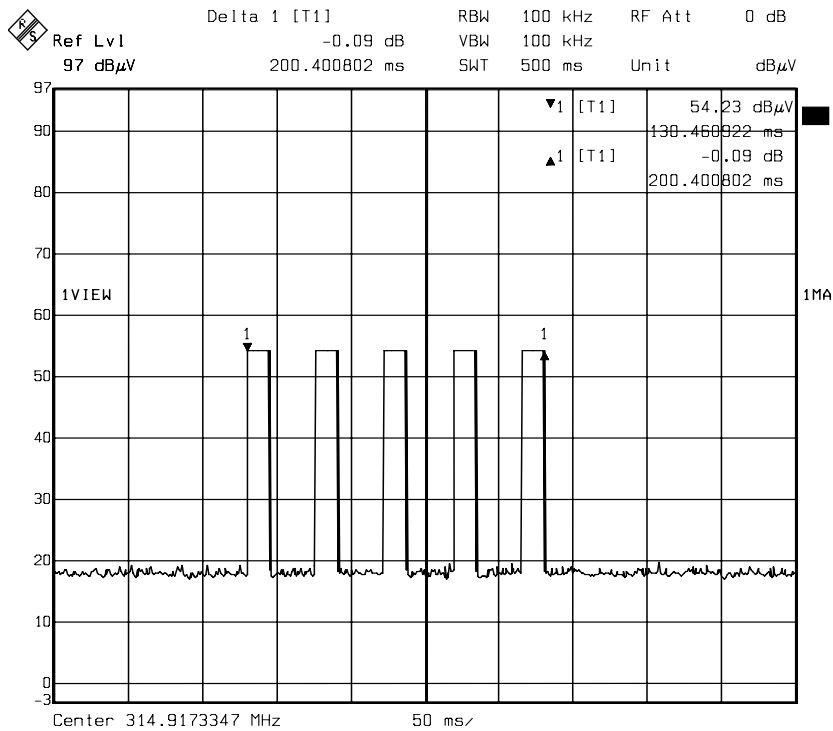


Test Plot Ton



Date: 13.OCT.2010 14:59:45

Tp



Date: 18.APR.2011 14:39:35



7.4 RADIATED EMISSIONS

LIMIT

1. According to §15.231(e), intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) and may be employed for any type of operation, including operation prohibited in paragraph (a), provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this Section, except the field strength table in paragraph (b) is replaced by the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 – 40.70	1000	100
70 – 130	500	50
130 – 174	500 to 1500 **	50 to 150 **
174 – 260	1500	150
260 – 470	1500 to 5000 **	150 to 500 **
Above 470	5000	500

Remark: ** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V}/\text{m}$ at 3 meters = $22.72727(F) - 2454.545$; for the band 260-470 MHz, $\mu\text{V}/\text{m}$ at 3 meters = $16.6667(F) - 2833.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

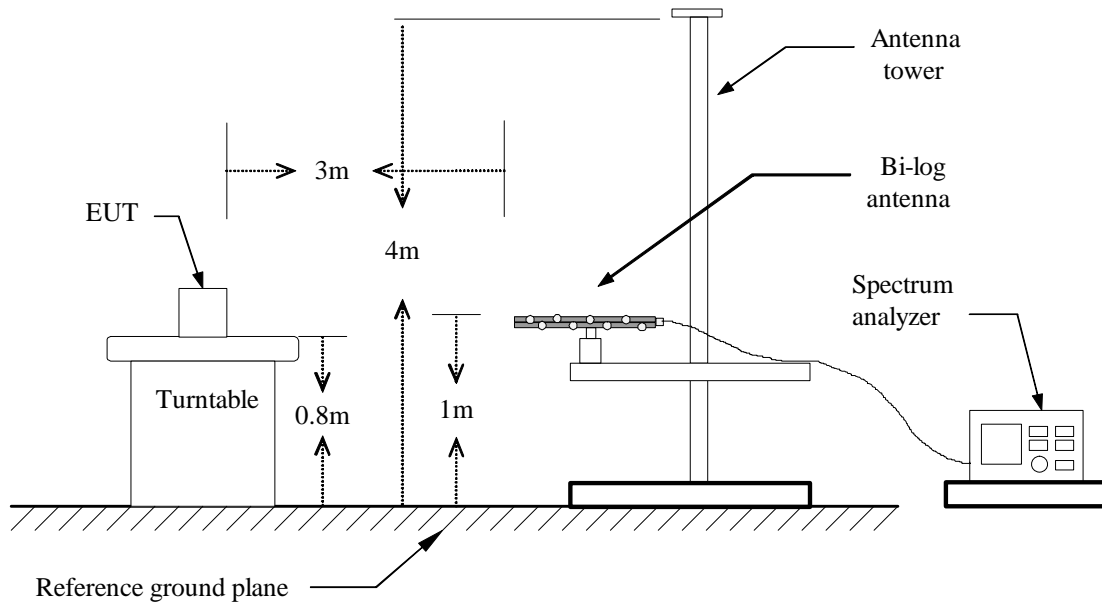
3. In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3-meter)	Field Strength (dB $\mu\text{V}/\text{m}$ at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

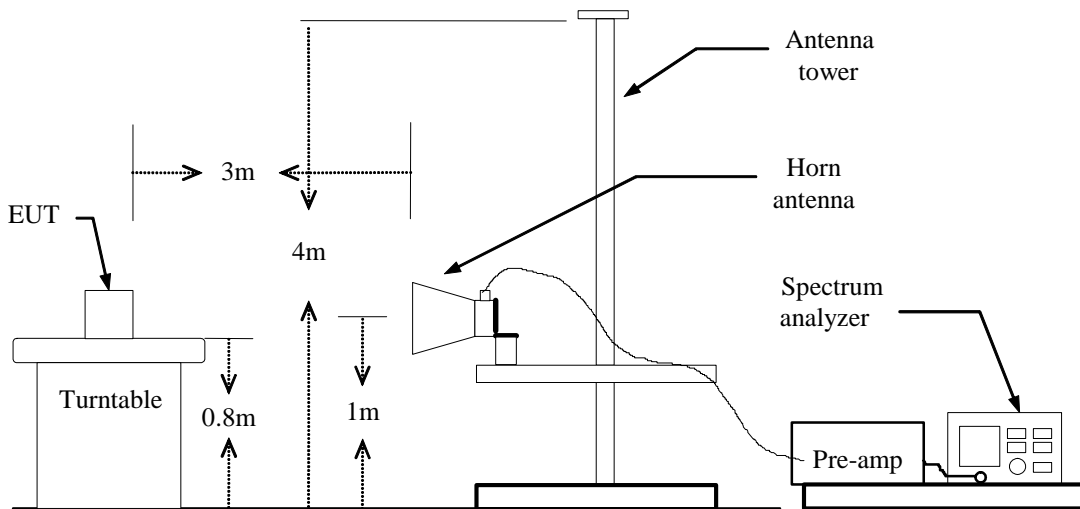


Test Configuration

Below 1 GHz



Above 1 GHz





TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
Below 1GHz:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz:
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

**Below 1 GHz**

Operation Mode: Tx / X Mode **Test Date:** August 04, 2011
Temperature: 20.3°C **Tested by:** John Chen
Humidity: 51 % RH **Polarity:** Ver. / Hor.

Freq- Uency (MHz)	Antenna	Cable	Meter Reading		Limits (dB μ V/M)	Duty Cycle Factor (dB)	Emission Level		Margin		Detector Mode
	Factor	Loss	at 3 m(dB μ V)				at 3 m(dB μ V/m)		Horizontal	Vertical	
315.01	14.50	2.51	48.38	36.24	87.66	-2.09	65.38	53.24	-22.28	-34.42	PK
315.01	14.50	2.51	N/A	N/A	67.66	-2.09	63.29	51.15	-4.37	-16.51	AVG
629.90	19.71	3.62	20.75	19.63	67.66	-2.09	44.09	42.97	-23.57	-24.69	PK
629.90	19.71	3.62	N/A	N/A	47.66	-2.09	41.99	40.87	-5.67	-6.79	AVG
945.03	23.61	4.57	18.63	18.16	67.66	-2.09	46.81	46.34	-20.85	-21.32	PK
945.03	23.61	4.57	N/A	N/A	47.66	-2.09	44.72	44.25	-2.94	-3.41	AVG
N/A	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak/average detector mode.
3. Average/quasi-peak test would be performed if the peak result were greater than the average/quasi-peak limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark Result (dB μ V/m) – Limit (dB μ V/m).



Operation Mode: Tx / Y Mode **Test Date:** August 04, 2011
Temperature: 20.3°C **Tested by:** John Chen
Humidity: 51 % RH **Polarity:** Ver. / Hor.

Freq- Uency (MHz)	Antenna	Cable	Meter Reading		Limits (dB μ V/M)	Duty Cycle Factor (dB)	Emission Level		Margin		Detector Mode
	Factor (dB/m)	Loss (dB)	at 3 m(dB μ V)				Horizontal	Vertical	Horizontal	Vertical	
315.03	14.50	2.51	36.75	43.28	87.66	-2.09	53.75	60.28	-33.91	-27.38	PK
315.03	14.50	2.51	N/A	N/A	67.66	-2.09	51.66	58.19	-16.00	-9.47	AVG
630.02	19.72	3.62	18.26	18.61	67.66	-2.09	41.60	41.95	-26.06	-25.71	PK
630.02	19.72	3.62	N/A	N/A	47.66	-2.09	39.51	39.86	-8.15	-7.80	AVG
945.06	23.62	4.57	20.37	21.26	67.66	-2.09	48.55	49.44	-19.11	-18.22	PK
945.06	23.62	4.57	N/A	N/A	47.66	-2.09	46.46	47.35	-1.20	-0.31	AVG
N/A	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Remark:

- 1.Measuring frequencies from 30 MHz to the 1GHz.
- 2.Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak/average detector mode.
- 3.Average/quasi-peak test would be performed if the peak result were greater than the average/quasi-peak limit or as required by the applicant.
- 4.Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5.Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6.Margin (dB) = Remark Result (dBuV/m) – Limit (dBuV/m).



Above 1 GHz

No emission found between lowest internal used/generated frequency above 1 GHz (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor, no record is required.



7.5 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ 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

* Decreases with the logarithm of the frequency.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

Not applicable (Since the EUT is powered by battery)

TEST RESULTS

Not applicable (Since the EUT is powered by battery)