

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT OF

Product Name: Incell Touch 215x

Brand: IDTI

Model Name: IS215x

Model Different: N/A

FCC ID: X62GC241194

Report No.: ER/2010/10007

Issue Date: Mar. 12, 2010

Rule Part: §15.231

Prepared by: Integrated Digital Technologies, Inc.
2F, NO.7 Industry East Road 4, Hsinchu
Science Park, Taiwan, R.O.C.

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Integrated Digital Technologies, Inc.
2F, NO.7 Industry East Road 4, Hsinchu Science Park, Taiwan, R.O.C.

Product Name: InCell Touch 215x

Brand / Marketing Name: IDTI

FCC ID: X62GC241194

Model No.: IS215x

Model Difference: N/A

File Number: ER/2010/10007

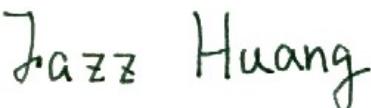
Date of test: Jan. 11, 2010 ~ Mar. 10, 2010

Date of EUT Received: Jan. 11, 2010

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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 15.231.

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

Test By:**Date:**

Mar. 12, 2010

*Jazz Huang / Engineer***Prepared By:****Date:**

Mar. 12, 2010

*Gigi Yeh / Clerk***Approved By:****Date:**

Mar. 12, 2010

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Mar. 12, 2010	Initial creation of document

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1. GENERAL INFORMATION

1.1 Product Description

Product Name	Incell Touch 215x
Brand Name	IDTI
Model Name	IS215x
Model Difference:	N/A
Power Supply	3.7V from battery*1

SRD 433.93MHz TX:

Operating Frequency	433.92 MHz
Transmit Power	< 72dBuV/m Max.
Modulation Technique	ASK
Number of Channels	1
Operating Mode	Point-to-Point
Periodic Transmission Time	< 1 s per hour

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **X62GC241194** filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions (Not apply in the report)

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table 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 max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range MHz	Limits dB (uV)	
	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 MHz to 0.50 MHz.

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(2) Radiated Emission

According to 15.231(e), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious	
	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)
40.66 - 40.70	60	1,000	40	100
70 - 130	54	500	34	50
130 - 174	54 to 63.5 **	500 to 1,500 **	34 to 43.5**	50 to 150 **
174 - 260	63.5	1,500	43.5	150
260 - 470	63.5 to 74 **	1,500 to 5,000 **	43.5 to 54**	150 to 500 **
above 470	74	5,000	54	500

Remark:

1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.
5. For the band 130-174MHz, uV/m at 3meters = 22.72727(F) - 2454.545;
6. For the band 260-470MHz uV/m at 3meters = 16.6667(F) - 2833.3333
Where F is the frequency in MHz.
7. 433.92MHz limit = 16.6667 * 433.92 - 2833.3333 = 4398.681164 uV/m = 72.86dBuV/m
8. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

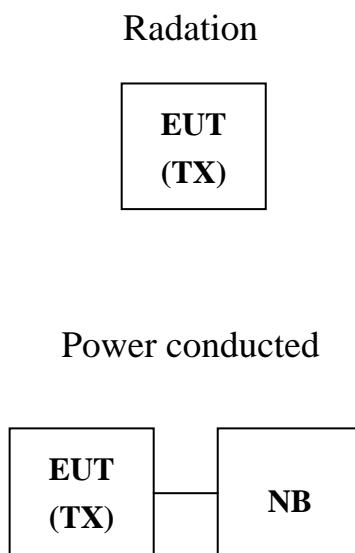


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	IBM	T40	99hcyf4	Un-shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§15.231(e)	Radiated Emission	Compliant
§15.231(c)	20dB Bandwidth	Compliant
§15.231(e)	Release Time Measurement	Compliant
§15.231(e)	Periodic Transmissions Time	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under engineering test mode condition. and the EUT staying in continuous transmitting mode. The Frequency 433.92 MHz is chosen for testing.

The X, Y and Z-axis of EUT were pre-test; X mode were the worse case and report.

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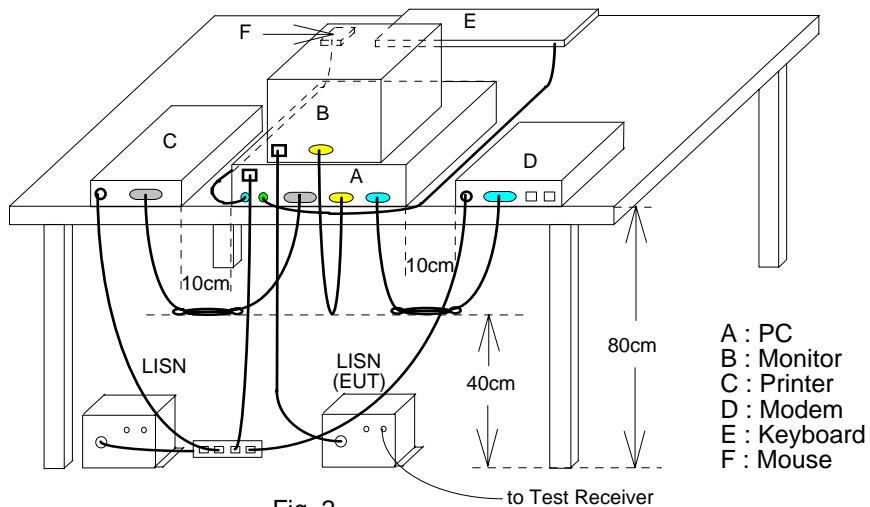
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5. CONDUCTED EMISSIONS TEST (NOT APPLY IN THE REPORT)

5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2009	09/14/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2009	11/27/2010

5.4 Measurement Result:

Note: Refer to next page for measurement data and plots

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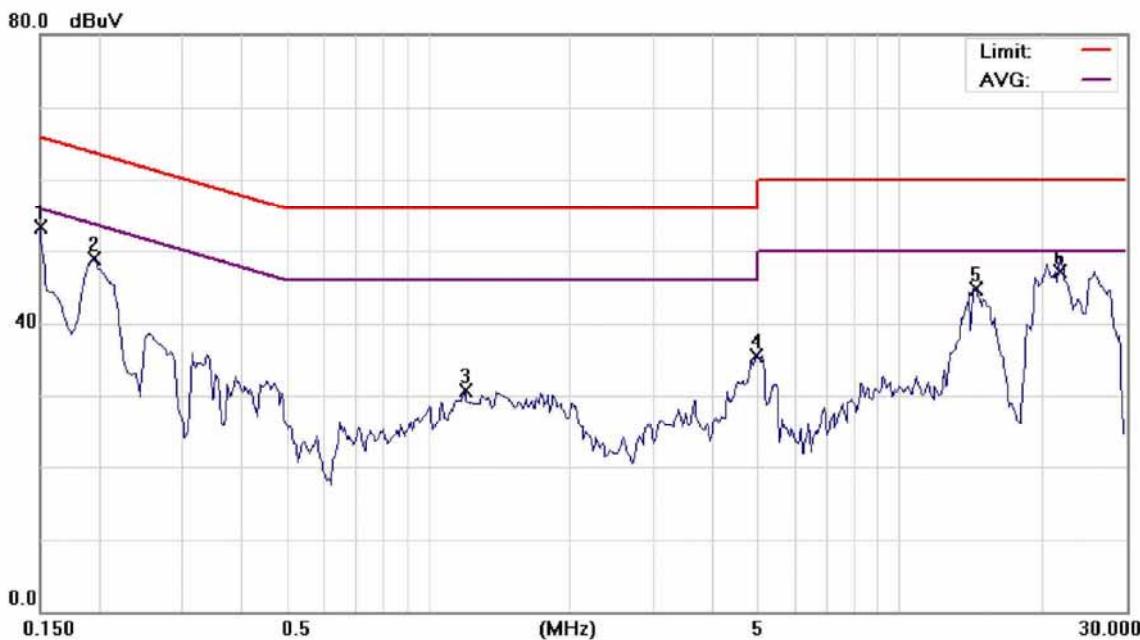
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode	Test Date:	Mar. 05, 2010
Temperature:	23	Humidity:	59 %



Site: SGS CONDUCTED #1	Phase: L1	Temperature: 23 °C
Limit: CISPR22 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 59 %
EUT: Incell Touch 215x	Distance:	Air Pressure: hpa
M/N: IS215x		
Note: operation mode		

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
							dB	Detector	Comment
1	*	0.1500	52.06	1.18	53.24	66.00	-12.76	peak	
2		0.1950	48.83	0.14	48.97	63.82	-14.85	peak	
3		1.2000	30.77	0.02	30.79	56.00	-25.21	peak	
4		4.9700	35.49	0.11	35.60	56.00	-20.40	peak	
5		14.4800	44.43	0.36	44.79	60.00	-15.21	peak	
6		21.8600	46.80	0.38	47.18	60.00	-12.82	peak	

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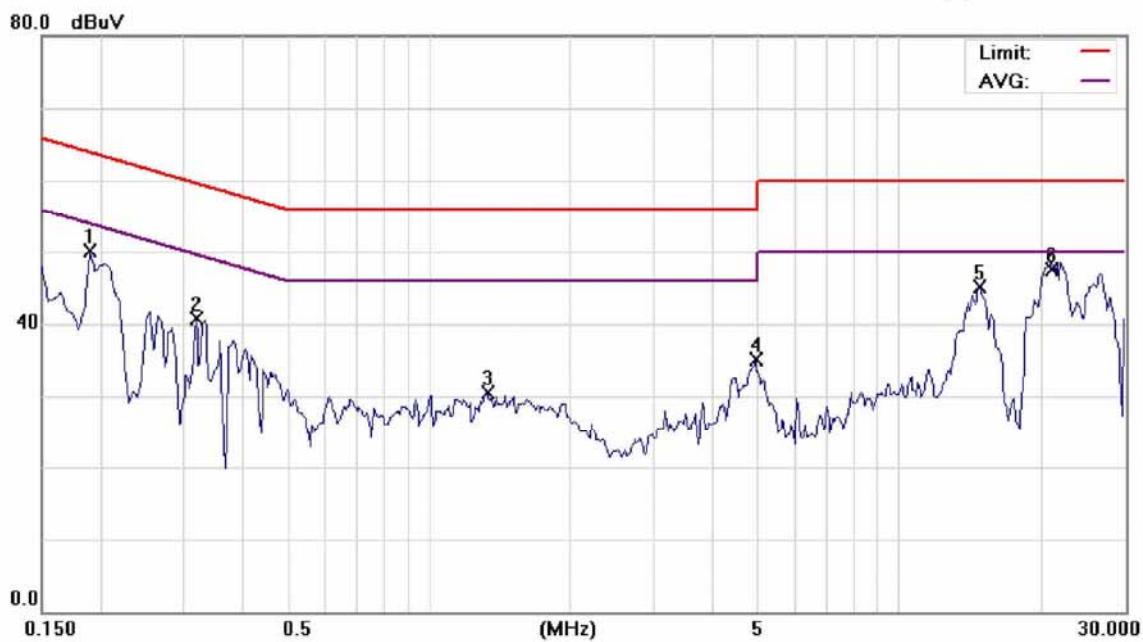
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Site: SGS CONDUCTED #1 Phase: **N** Temperature: 23 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 59 %
 EUT: Incell Touch 215x Distance: Air Pressure: hpa
 M/N: IS215x
 Note: operation mode

No.	Mk.	Freq.	Reading	Factor	Measure- ment	Limit	Over		
			Level				dB	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV			
1		0.1900	50.03	0.02	50.05	64.04	-13.99	peak	
2		0.3200	40.60	0.02	40.62	59.71	-19.09	peak	
3		1.3250	30.43	0.02	30.45	56.00	-25.55	peak	
4		4.9650	34.90	0.11	35.01	56.00	-20.99	peak	
5		14.7900	44.91	0.27	45.18	60.00	-14.82	peak	
6 *		21.1200	47.21	0.37	47.58	60.00	-12.42	peak	

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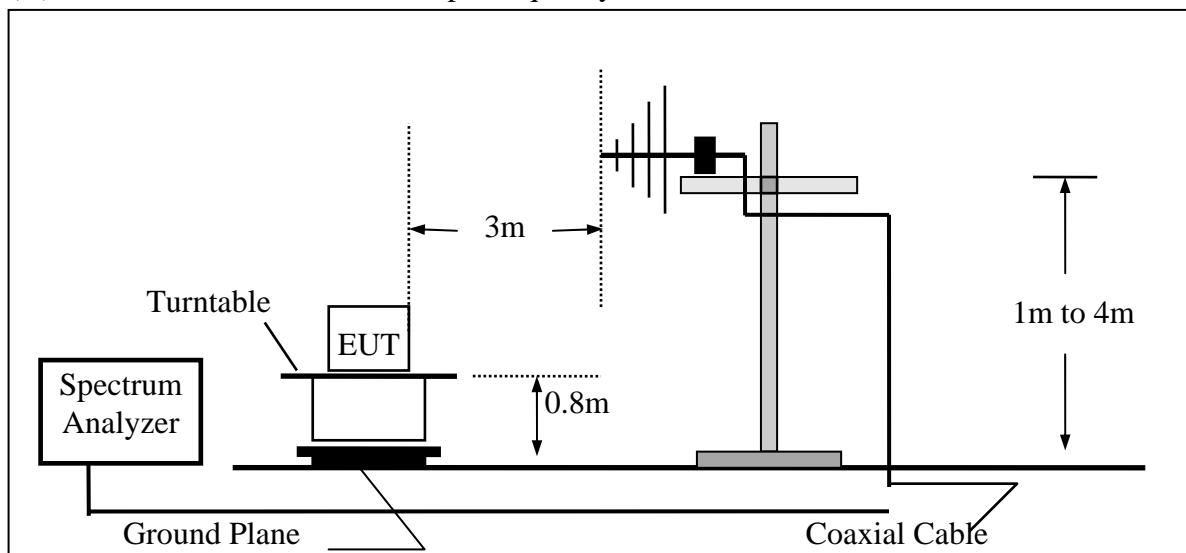
6. RADIATED EMISSION TEST

6.1 Measurement Procedure

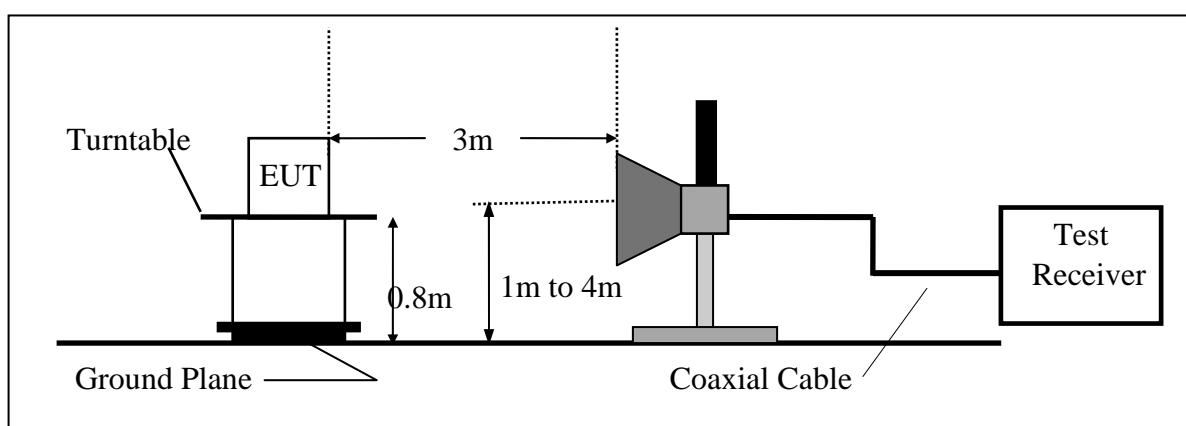
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Loop antenna	MESSTECH	FLA30	03/10086	07/08/2009	07/07/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	09/15/2009	09/14/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/27/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Average Value = Peak Value + 20 Log (Ton/Tp) Pulse Modulation

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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6.5 Measurement Result

Operation Mode: Transmitting Mode
 Fundamental Frequency: 433.92 MHz X mode
 Temperature : 25 °C
 Humidity : 65 %

Test Date: Mar. 07, 2010
 Test By: Jazz
 Pol: Vertical

Freq. (MHz)	F /S	Ant. Po l. (H/V)	Reading (dB uV)	Peak	AV	Peak	AV	Peak	AV	Margin (dB)	AV
				Factor dB	Ant./CL CF(dB)	Level (dB uV/m)	Level (dB uV/m)	Limit (dB uV/m)	Limit (dB uV/m)		
433.92	F	V	72.92	-	6.69	-9.04	63.88	57.19	92.80	72.80	-15.61
867.84	S	V	31.97	---	-1.63	30.34	---	72.80	52.80	-22.46	PK
1301.76	*S	V	--	---	---	---	---	---	---	---	---
1735.68	S	V	--	---	---	---	---	---	---	---	---
2169.60	S	V	--	---	---	---	---	---	---	---	---
2603.52	S	V	41.02	---	-0.60	40.42	---	72.80	52.80	-12.38	PK
3037.44	S	V	--	---	---	---	---	---	---	---	---
3471.36	S	V	--	---	---	---	---	---	---	---	---
3905.28	*S	V	--	---	---	---	---	---	---	---	---
4339.20	S	V	--	---	---	---	---	---	---	---	---

Remark:

- (1) + F/S F: denotes Fundamental Frequency; S: denotes Spurious Frequency
- (2) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz.
- (3) Dates 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.
- (4) * Denotes spurious frequency, which falls within the Restricted Bands specified in provision of ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.
- (5) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms
- (6) AV Level= peak Reading – AV Factor

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Operation Mode: Transmitting Mode
 Fundamental Frequency: 433.92MHz X mode
 Temperature : 25 °C
 Humidity : 65 %

Test Date: Mar. 07, 2010
 Test By: Jazz
 Pol: Horizontal

Freq. (MHz)	F /S	Ant.Pol. (H/V)	Peak	AV	Peak	AV	Peak	AV	Margin		
			Reading (dBuV)	Factor dB	Ant./CL CF(dB)	Level (dBuV/m)	Level (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(dB)	
433.92	F	H	75.22	-	6.69	-9.04	66.18	59.49	92.80	72.80	-13.31
867.84	S	H	22.32	---	-1.63	20.69	---	72.80	52.80	-32.11	Pk
1301.76	*S	H	---	---	---	---	---	---	---	---	---
1735.68	S	H	43.88	---	-4.75	39.13	---	72.80	52.80	-13.67	Pk
2169.60	S	H	---	---	---	---	---	---	---	---	---
2603.52	S	H	---	---	---	---	---	---	---	---	---
3037.44	S	H	---	---	---	---	---	---	---	---	---
3471.36	S	H	---	---	---	---	---	---	---	---	---
3905.28	*S	H	---	---	---	---	---	---	---	---	---
4339.20	S	H	---	---	---	---	---	---	---	---	---

Remark:

- (1) + F/S F: denotes Fundamental Frequency; S: denotes Spurious Frequency
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- (4) * Denotes spurious frequency, which falls within the Restricted Bands specified in provision of ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.
- (5) Peak Setting: 30MHz – 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms
- (6) AV Level= peak Reading – AV Factor

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20DB OCCUPIED BANDWIDTH

7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =100KHz.
4. Set SPA Max hold. Mark peak, -20dB.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

7.4 Measurement Results

Refer to attached data chart.

The center frequency **f_c is 433.92MHz**, according to the Rules, section 15.231(C), the Bandwidth of Center Frequency at-20dB should be calculated as following:

$$433.92 \times 0.0025 = 1.0848(\text{MHz})$$

So, the Uper/Lower frequencies limit should be specified as:

$$f_{(U)} = f_c + \Delta f/2 = 433.92 + 0.5424 = 434.46(\text{MHz})$$

$$f_{(L)} = f_c - \Delta f/2 = 433.92 - 0.5424 = 433.377 (\text{MHz})$$

Measurement Result:

-20dB bandwidth = 84.5kHz within allowed frequency range.

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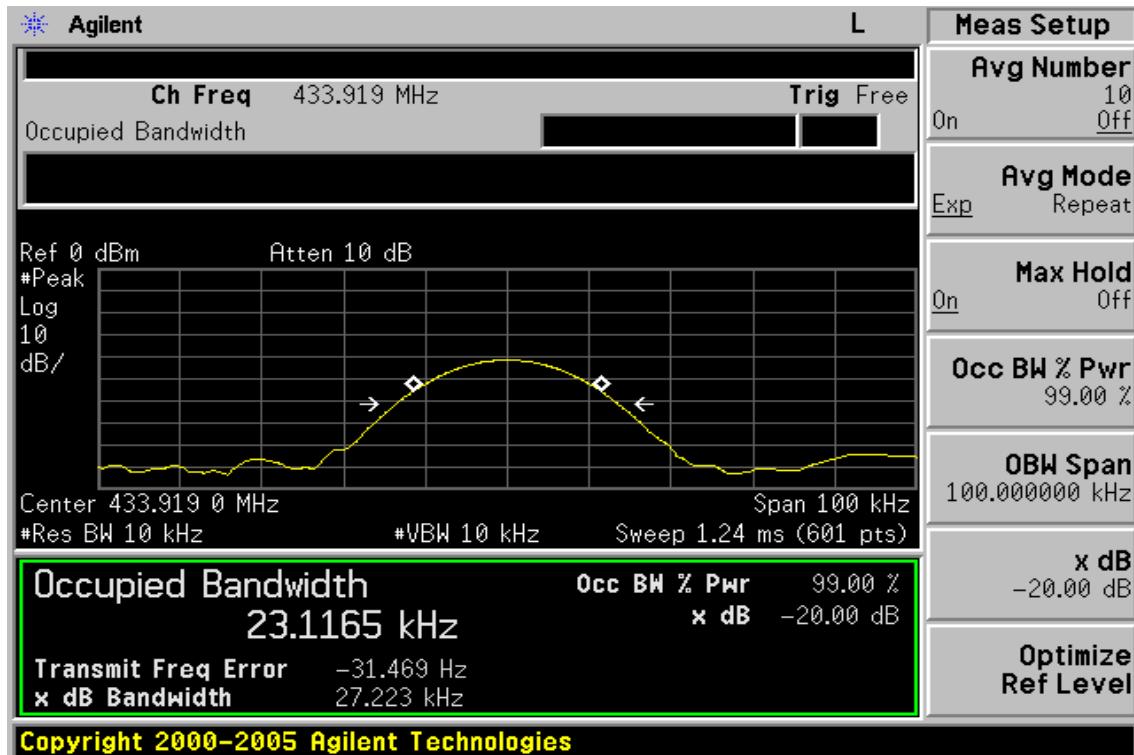
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20dB Band Width Test Data



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7. RELEASE TIME AND TRANSMITTER TIME MEASUREMENT:

15.231 (e) 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.

8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 1MHz, Span =0Hz
3. Set EUT Power on as normal operation
4. Set SPA Max hold. Delta Mark.

8.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

8.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

8.4. Measurement Results

The Transmitter time is less than 1 s and Release Tine is more 10s and 30 time Transmitter time

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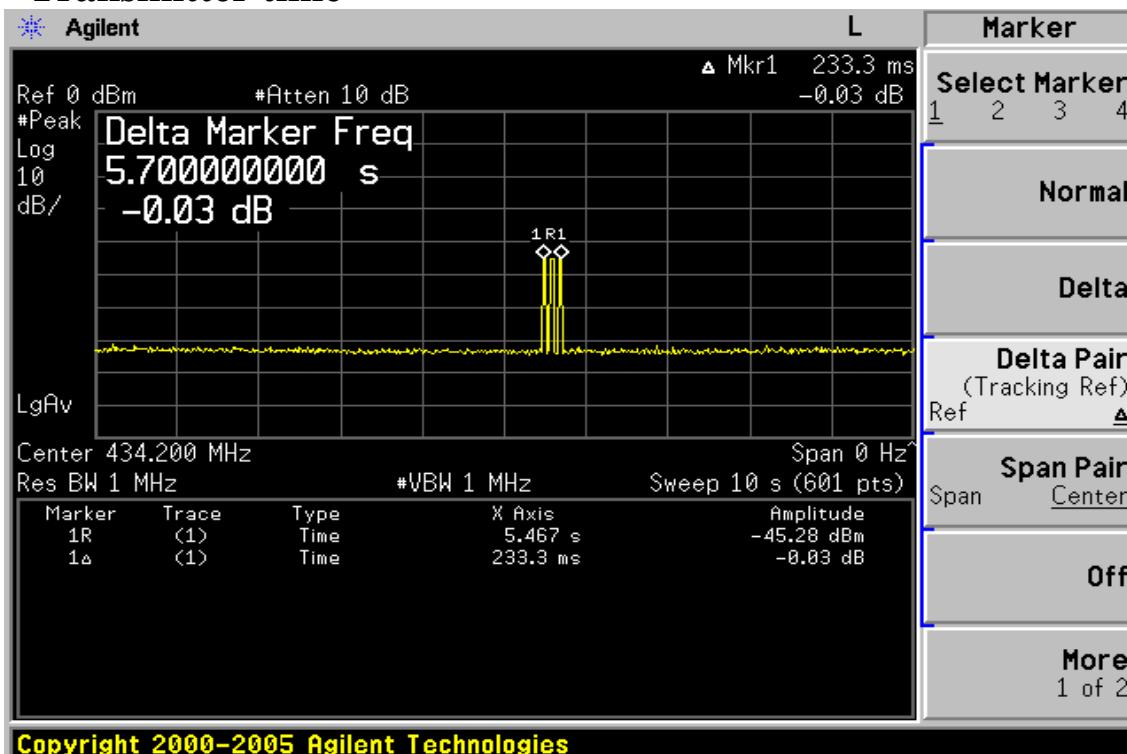
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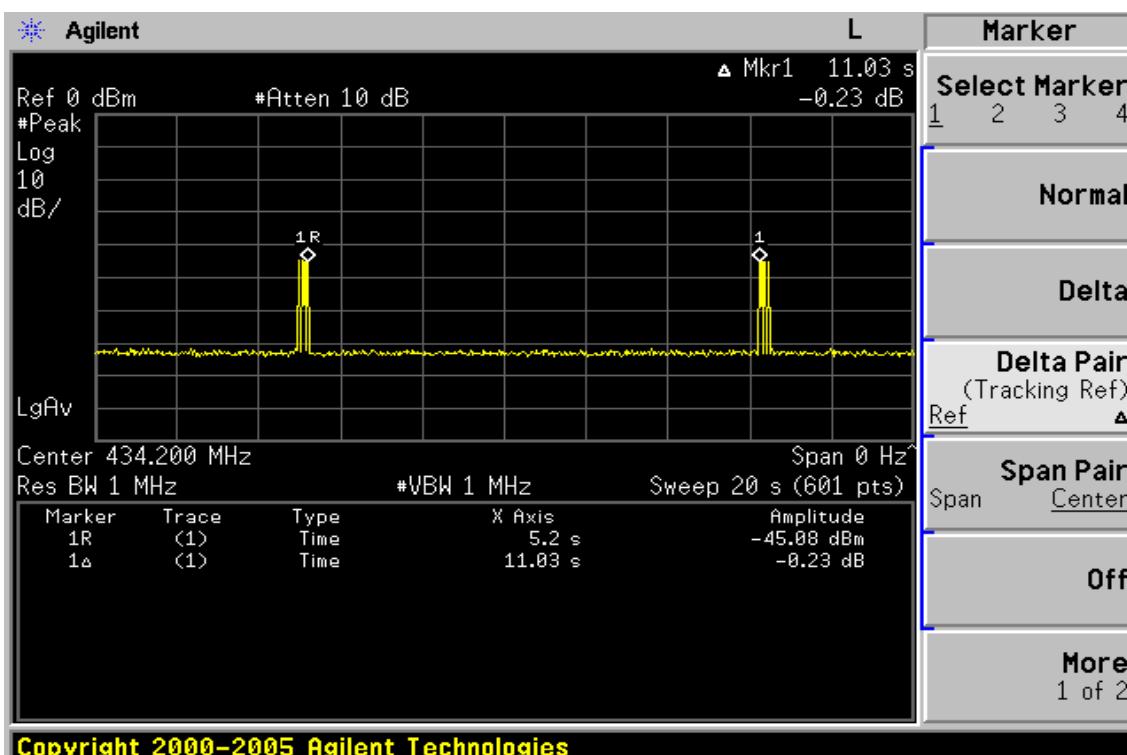
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Transmitter time



Release Tine



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8. DUTY CYCLE MEASUREMENT

8.1 Measurement Procedure

5. The EUT was placed on a turn table which is 0.8m above ground plane.
6. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 1MHz, Span =0Hz
7. Set EUT Power on as normal operation
8. Set SPA Max hold. Delta Mark.

8.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

8.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

8.4. Measurement Results

$T_{on} = 46.25\text{ms}$

$T_p = 100\text{ms}$

Average Correction Factory = $20\log(T_{on}/T_p) = 20\log(46.25/100)$

=-6.69dB

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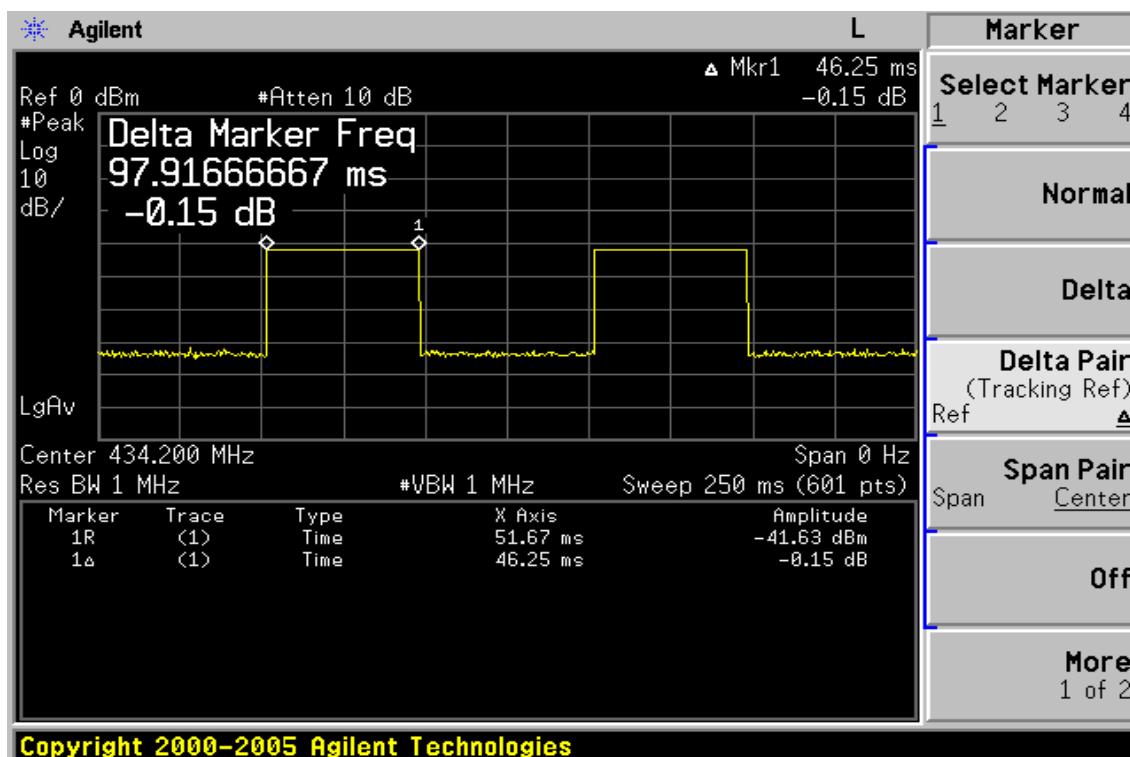
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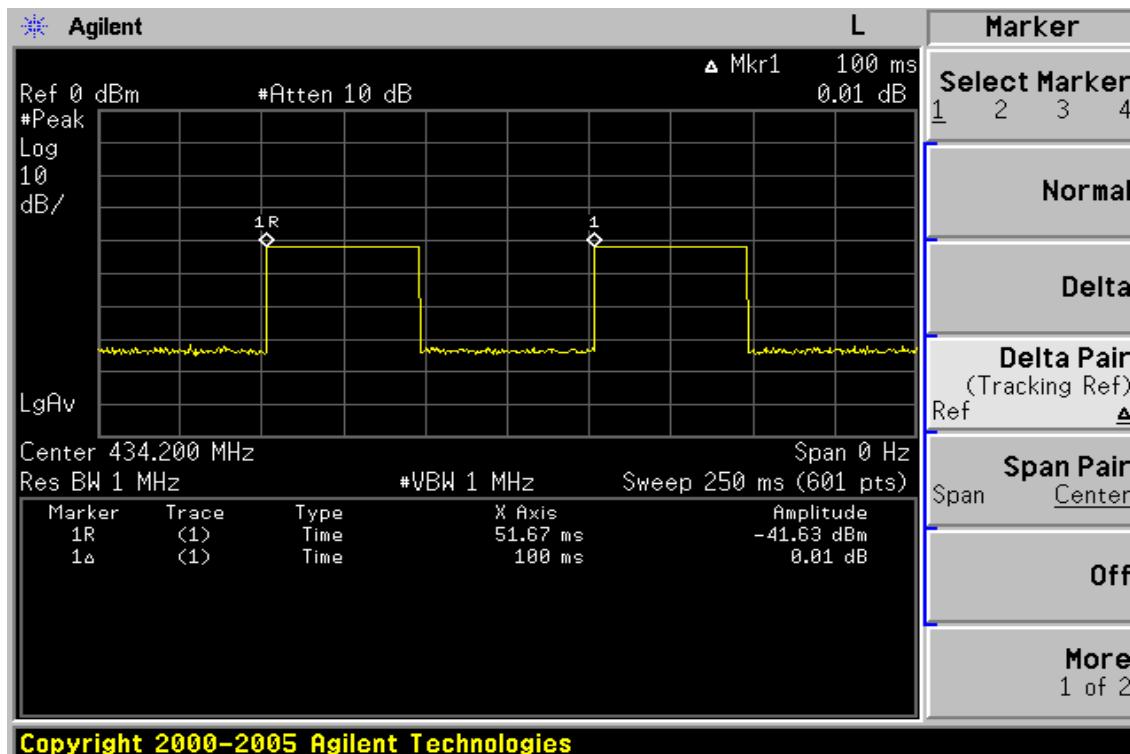
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