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JQA File No.: KL80100215 Issue Date: October 1, 2010

TEST REPORT

APPLICANT : Sharp Corporation, Communication Systems Group

ADDRESS : 2-13-1, Iida Hachihonmatsu, Higashi-Hiroshima City, Hiroshima,

739-0192, JAPAN

PRODUCTS : Cellular Phone

MODEL NO. : SH-02C

SERIAL NO. : 004401112865262 **FCC ID** : APYHRO00130

TEST STANDARD : CFR 47 FCC Rules and Regulations Part 15

TESTING LOCATION: Japan Quality Assurance Organization

KITA-KANSAI Testing Center

1-7-7, Ishimaru, Minoh-shi, Osaka 562-0027, Japan

TEST RESULTS : Passed

DATE OF TEST : September 23, 2010 ~ September 28, 2010

This report must not used by the client to claim product endorsement by NVLAP or NIST or any agency of the U.S. Government.



Sun

Kousei Shibata

Manager

Japan Quality Assurance Organization

KITA-KANSAI Testing Center

Testing Dept. EMC Division

1-7-7, Ishimaru, Minoh-shi, Osaka 562-0027, Japan

- The measurement values stated in Test Report was made with traceable to National Institute of Advanced Industrial Science and Technology (AIST) of Japan and National Institute of Information and Communications Technology (NICT) of Japan.
- The applicable standard, testing condition and testing method which were used for the tests are based on the request of the applicant.
- The test results presented in this report relate only to the offered test sample.
- The contents of this test report cannot be used for the purposes, such as advertisement for consumers.
- This test report shall not be reproduced except in full without the written approval of JQA.



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DEFINITIONS FOR ABBREVIATION AND SYMBOLS USED IN THIS TEST REPORT

EUT : Equipment Under Test EMC : Electromagnetic Compatibility

AE : Associated Equipment EMI : Electromagnetic Interference

N/A : Not Applicable EMS : Electromagnetic Susceptibility

N/T : Not Tested

□ - indicates that the listed condition, standard or equipment is applicable for this report.

indicates that the listed condition, standard or equipment is not applicable for this report.



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Documentation

1 Test Regulation

Applied Standard : CFR 47 FCC Rules and Regulations Part 15

Subpart C – Intentional Radiators

Test Requirements : §15.225, §15.207 and §15.209

Test Procedure : ANSI C63.4–2003

2 Test Location

KITA-KANSAI Testing Center 1-7-7, Ishimaru, Minoh-shi, Osaka 562-0027, Japan KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-cho, Kameoka-shi, Kyoto 621-0126, Japan

3 Recognition of Test Laboratory

JQA KITA-KANSAI Testing Center Testing Department EMC Division is accredited under ISO/IEC 17025 by following accreditation bodies and the test facility of Testing Division is registered by the following bodies.

VLAC Code : VLAC-001-2 (Effective through : March 30, 2012) NVLAP Lab Code : 200191-0 (Effective through : June 30, 2011) BSMI Recognition No. : SL2-IS-E-6006, SL2-IN-E-6006, SL2-AI-E-6006

(Effective through: September 14, 2013)

VCCI Registration No. : R-008, C-006, C-007, C-1674, C-2143, C-3685, T-1418, T-1419, T-1819, T-1820,

T-1821, G-172, G-173

(Effective through: March 30, 2012)

IC Registration No. : 2079E-1, 2079E-2 (Effective through: January 6, 2011)

Accredited as conformity assessment body for Japan electrical appliances and material law by METI. (Effective through: February 22, 2012)



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4 Description of the Equipment Under Test

4.1 General Information

1. Manufacturer : Sharp Corporation, Communication Systems Group

2-13-1, Iida Hachihonmatsu, Higashi-Hiroshima City, Hiroshima,

739-0192, JAPAN

2. Products : Cellular Phone

3. Model No. : SH-02C

4. Serial No.
5. Product Type
6. Date of Manufacture
6. Outline of Manufacture
6. September, 2010

7. Transmitting Frequency : 13.560 MHz

8. Receiving Frequency : 13.560 MHz

9. Power Rating : 4.0VDC (Lithium-ion Battery Pack SH23 800mAh)

10. EUT Grounding : None

11. EUT Authorization : Certification

12. Receive Date of EUT : September 23, 2010



Test Condition

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5.1 AC	Powe	rline Conducted En	ission		
The r	require		plicable [☐ - t Applicable	Tested.	- Not tested by applicant request.]
Test	site:	KITA-KANSAI KAMEOKA	☐ - Shielded☐ - Shielded☐ - 1st open	room	☐ - Anechoic chamber☐ - Conducted emission facility
Test	instru	ments : Refer to App	oendix C.		
5.2 Ra	diated	Emission			
5.2.1	Radia	ted Emission 9 kHz	$-30 \mathrm{\ MHz}$		
The r	require	=	plicable [⊠ - t Applicable	Tested.	- Not tested by applicant request.]
Test	site:	□ - KAMEOKA 1□ - KAMEOKA 2			☐ - 10 m ☐ - 10 m
Test	instru	ments : Refer to App	oendix C.		
5.2.2	Radia	ted Emission 30 MF	Iz - 1000 MHz		
The r	require		plicable [⊠ - t Applicable	Tested.] - Not tested by applicant request.]
Test	site:	□ - KAMEOKA 1□ - KAMEOKA 2	=	□ - 3 m□ - 3 m	☐ - 10 m ☐ - 10 m
Test	instru	ments : Refer to App	oendix C.		
5.2.3	Radia	ted Emission above	1 GHz		
The r	require	=	plicable [☐ - t Applicable	Tested.	order of the state
Test	site:	☐ - KAMEOKA 1 ☐ - KAMEOKA 2		☐ - 3 m ☐ - 3 m	☐ - 10 m ☐ - 10 m
Test i	instru	ments : Refer to An	nendix C		



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5.3 Occupie	d Bandwidth		
The requi		plicable [🛚 - Tested. t Applicable	Not tested by applicant request.]
Test site:	KITA-KANSAI KAMEOKA	☐ - Shielded room☐ - Shielded room	 □ - 2nd Shielded room □ - Conducted emission facility
Test instru	uments : Refer to App	pendix C.	
5.4 Band-E	dge Emission		
The requir		plicable [🛚 - Tested. t Applicable	☐ - Not tested by applicant request.]
Test site:	KITA-KANSAI KAMEOKA	☐ - Shielded room☐ - Shielded room	\square - 2 nd Shielded room \square - Conducted emission facility
Test instru	uments : Refer to App	pendix C.	
5.5 Frequer	ncy Stability		
The requi		plicable [\overline - Tested. t Applicable	☐ - Not tested by applicant request.]
Test site:	KITA-KANSAI En	vironment Testing Roon	1
Test instr	uments : Refer to App	pendix C.	



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6 Preliminary Test and Test Setup

6.1 AC Powerline Conducted Emission

Not Applicable

6.2 Radiated Emission

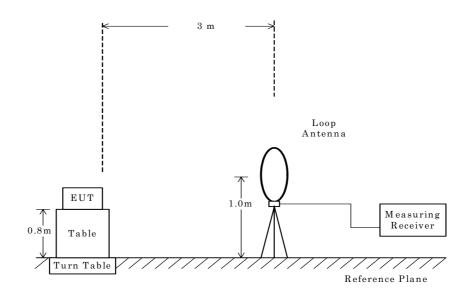
6.2.1 Radiated Emission 9 kHz - 30 MHz

The preliminary tests 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.

This configurations was used for the final tests.

- Side View -





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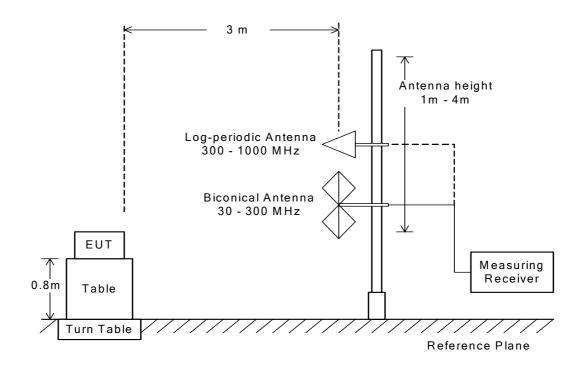
6.2.2 Radiated Emission 30 MHz – 1000 MHz

The preliminary tests 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.

This configurations was used for the final tests.

- Side View -





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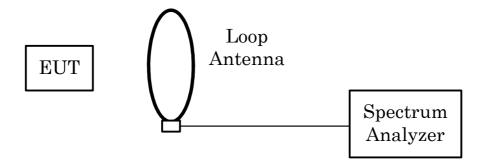
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6.2.3 Radiated Emission above 1 GHz

Not Applicable

6.3 Occupied Bandwidth

The test system is shown as follows:



The setting of the spectrum analyzer are shown as follows:

Res. Bandwidth	$1~\mathrm{kHz}$
Video Bandwidth	$3~\mathrm{kHz}$
Span	$30~\mathrm{kHz}$
Sweep Time	AUTO
Trace	Maxhold

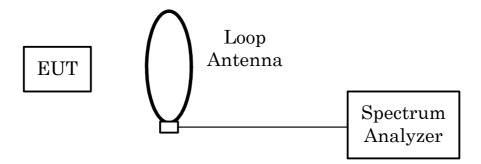


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6.4 Band-Edge Emission

The test system is shown as follows:



The setting of the spectrum analyzer are shown as follows:

TX Frequency	13.560 MHz
Band-Edge Frequency	13.110 MHz / 14.010 MHz
Res. Bandwidth	10 kHz
Video Bandwidth	10 kHz
Span	1 MHz
Sweep Time	AUTO
Trace	Maxhold



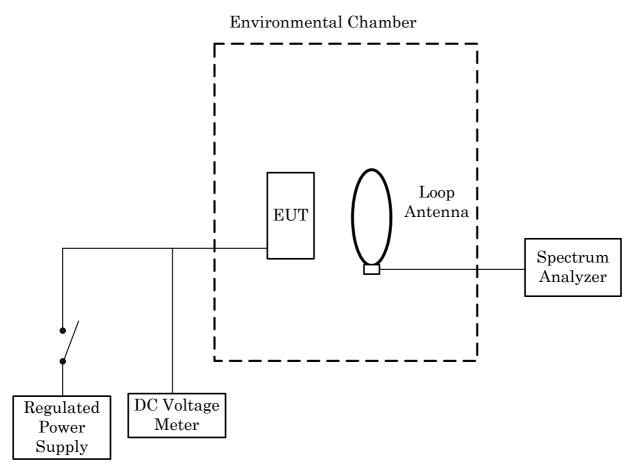
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6.5 Frequency Stability

Frequency Stability versus Temperature

The EUT was placed in an environmental chamber and was tested in the range from -30 to +50 degrees Celsius. The EUT was stabilized at each temperature. The power (4.0VDC) supplied was applied to the transmitter and allowed to stabilize for 10 minutes. The transmitting frequency was measured at startup and 2 minutes, 5 minutes and 10 minutes after startup. This procedure was repeated from -20, +20 and +50 degrees Celsius.





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7	Equipment Under Test Modification								
	 □ - No modifications were conducted by JQA to achieve compliance to the limitations. □ - To achieve compliance to the limitations, the following changes were made by JQA during the compliance test. 								
	The modifications will be implemented in all production models of this equipment.								
	Applicant Date Typed Name Position	: Not Applicable: Not Applicable: Not Applicable: Not Applicable	Signatory:	Not Applicable					
8	Responsible Party Responsible Party of Test Item (Product)								
	Responsible								
	Contact Per	rson :		Signatory					
9		m Standard ations from the standard wing deviations were empl		scribed in clause 1.					



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10	Т	est	Res	ults	ı

10.1 AC Powerline Conducted Emission			
The requirements are \square - Applicable $[\square$ - Tested \boxtimes - Not Applicable		by applicant requ	est.]
\square - Passed \square - Failed	☐ - Not judged		
Min. Limit Margin (Quasi-Peak)	dB	at	_ MHz
Max. Limit Exceeding (Quasi-Peak)	dB	at	_ MHz
Uncertainty of Measurement Results			_ dB(2σ)
Remarks: When the cellular phone is connected to RF(13.56MHz) communicating function is		and Stereo Hand	sfree, the
10.2 Radiated Emission 10.2.1 Radiated Emission (§15.225(a)(b)(c))			
The requirements are 🛛 - Applicable 🔲 - Tested 🔲 - Not Applicable		by applicant requ	est.]
oxtimes - Passed $oxtimes$ - Failed	Not judged		
Max. Limit Margin (Quasi-Peak)	<u>68.1</u> dB	at <u>13.560</u>	_ MHz
Max. Limit Exceeding (Quasi-Peak)	dB	at	_ MHz
Uncertainty of Measurement Results	9 kHz – 30 N	MHz <u>+/-1.7</u>	_ dB(2o)

Remarks: The Radited Emission at 30m of 13.560 MHz is 15.9dB(uV/m)



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10.2.2 Radiated Emission (§15.225(d))				
The requirements are \boxtimes - Applicable $[\boxtimes$ - Test \square - Not Applicable	ed. 🗌 - Not tested	by appli	icant reque	est.]
igtimes - Passed $igcap$ - Failed	Not judged			
Min. Limit Margin (Quasi-Peak)	12.1 dB	at _	813.6	_ MHz
Max. Limit Exceeding (Quasi-Peak)	dB	at _		_ MHz
Uncertainty of Measurement Results	9 kHz – 30 l 30 MHz – 300 l 300 MHz – 1000 l above 1	MHz MHz		_ dB(2o) _ dB(2o) _ dB(2o) _ dB(2o)
Remarks: When the cellular phone is connected RF(13.56MHz) communicating function		and Ste	ereo Hands	sfree, the
10.3 Occupied Bandwidth				
The requirements are \square - Applicable $[\square$ - Test \square - Not Applicable	ed. - Not tested	by appli	icant reque	est.]
$oxed{oxed}$ - Passed $oxed{oxed}$ - Failed	Not judged			
Uncertainty of Measurement Results		-	+/-0.9	_ %(20)
Remarks:				
0.4 Band-Edge Emission				
The requirements are \square - Applicable $[\square]$ - Test \square - Not Applicable	ed. 🗌 - Not tested	by appli	icant reque	est.]
$oxed{oxed}$ - Passed $oxed{oxed}$ - Failed	Not judged			
Uncertainty of Measurement Results		-	+/-1.0	_ dB(2o)
Remarks:				



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10.5	Frequency	Sta	bility
------	-----------	-----	--------

The requirements are \boxtimes - Applicable $[\boxtimes$ - Tested \square - Not Applicable		y app	olicant reque	st.]
The Frequency Stability level is	+0.001931 %	at	13.560	MHz
Min. Limit Margin	0.008069 %	at	13.560	MHz
Max. Limit Exceeding	%	at		MHz
Uncertainty of Measurement Results			+/1.6	ppm(20)
Remarks:				



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11 Summary

General Remarks:

The EUT was tested according to the requirements of the following standard.

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The test configuration is shown in clause 12 to 14.

The conclusion for the test items of which are required by the applied regulation is indicated under the test results.

Determining compliance with the limits in this report was based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Test Results:

The "as received" sample;

□ fulfill the test requirements of the regulation mentioned on clause 1.

odoesn't fulfill the test requirements of the regulation mentioned on clause 1.

Reviewed by:

Shigeru Kinoshita Deputy Manager

Testing Dept. EMC Div.

JQA KITA-KANSAI Testing Center

Tested by:

Akio Hosoda

Advisor

Testing Dept. EMC Div.

JQA KITA-KANSAI Testing Center



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12 Operating Condition

The test were carried under one modulation type shown as follows:

Modulation : ASK

The Radiated Emission test were carried under one test configuration shown in clause 14. In all tests, the fully charged battery is used for the EUT.

Detailed Transmitter portion:

Transmitter frequency : 13.560 MHz

Detailed Receiver portion:

Receiver frequency : 13.560 MHz

Other Clock Frequency

 $13.56~\mathrm{MHz},\,26~\mathrm{MHz},\,27.456~\mathrm{MHz},\,40.95~\mathrm{MHz},\,48\mathrm{MHz},\,32.768~\mathrm{kHz}$

13 Test Configuration

The equipment under test (EUT) consists of:

	Item	Manufacturer	Model No.	Serial No.	FCC ID		
A	Cellular Phone	Sharp	SH-02C	004401112865262	APYHRO00130		
В	Lithium-ion Battery	Sharp	Battery Pack		N/A		
			SH23				

The auxiliary equipment used for testing:

None

Type of Cable:

None

14 Equipment Under Test Arrangement (Drawings)

a) Single Unit

A



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Appendix A: Test Data

A.1 AC Powerline Conducted Emission

Not Applicable

A.2 Radiated Emission

A.2.1 Radiated Emission (§15.225(a)(b)(c) & §15.209(a))

Test Date: September 28, 2010 Temp.: 26 °C, Humi: 53 %

Test condition: Transmitting

Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings at 3 m [dB(μV)]	Limits [dB(μV/m)]	Specified Distance [m]	Extrapolated Results [dB(µV/m)]	Margin [dB]	Remarks
13.560	0.3	55.6	84.0	30.0	15.9	+68.1	_
27.12	2.3	< 30.0	29.5	30.0	< - 7.7	> +37.2	_

NOTES

- 1 Test Distance: 3 m
- 2. The correction factor includes the antenna factor and the cable loss.
- 3. The symbol of "<" means "or less".
- 4. The symbol of ">" means "more than".
- 5. The testing loop antenna was rotated at the vertical and horizontal axis to maximize received emissions. The above Meter Reading was maximum emission level.
- 6. Calculation:

For fundamental, the measured field strength was extrapolated to distance 30m, using the formula that field strength using the formula that field strength aries as the inverse distance square(40 dB per decade of distance).

Fundamental : Correction Factor + Meter Reading = 0.3 + 55.6 = 55.9 dB(μ V/m)

Result at 30 m = -40 + 55.9 = 15.9 dB($\mu V/m$) (Conversion Factor : 40dB/decade)

Limits for fundamental($\S15.225(a)$) = $20\log 10(15848) = 84.0 \text{ dB}_{\mu}\text{V/m}$

 $Harmonic: Correction\ Factor + Meter\ Reading = 2.3 + <30.0 = <32.3\ dB(\mu V/m)$

Result at 30 m = \cdot 40 + <32.3 = <-7.7 dB(μ V/m) (Conversion Factor : 40dB/decade)

Limits for fundamental($\S15.209(a)$) = $20\log 10(30) = 29.5 \text{ dB}\mu\text{V/m}$

8. Test receiver setting(s):

Quasi-Peak Detector IF Bandwidth: 9kHz or 200Hz(9 kHz - 90 kHz, 110 kHz - 490 kHz)

Average Detector, IF Bandwidth: 9kHz or 200Hz(Except for 9 kHz -90 kHz, 110 kHz -490 kHz)



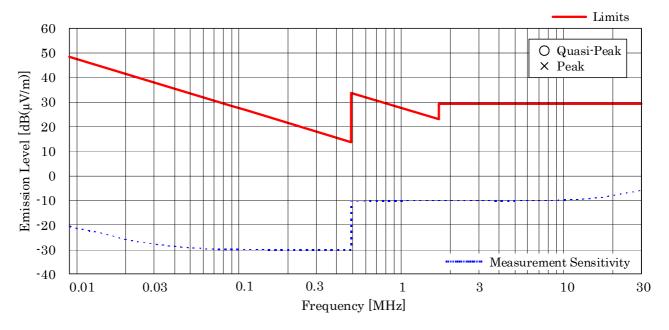
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A.2.2.1 Radiated Emission (§15.209(a))(9kHz – 30MHz)

Test Date: September 28, 2010 Temp.: 26 °C, Humi: 53 %

Frequency	Correction Factor	Meter Readings at 3 m	Limits at D m	Results at D m	Margin [dB]	Remarks
[MHz]	[dB(1/m)]	$[dB(\mu V)]$	$\left[dB(\mu V/m)\right]$	$[dB(\mu V/m)]$		
0.01	8.6	< 30.0	47.6	< -41.4	> +89.0	-
0.03	2.2	< 30.0	38.1	< -47.8	> +85.9	-
0.05	0.7	< 30.0	33.6	< -49.3	> +82.9	-
0.10	0.1	< 30.0	27.6	< -49.9	> +77.5	_
0.50	-0.2	< 30.0	33.6	< -10.2	> +43.8	-
1.00	-0.1	< 30.0	27.6	< -10.1	> +37.7	-
5.00	-0.1	< 30.0	29.5	< -10.1	> +39.6	_
10.00	0.2	< 30.0	29.5	< - 9.8	> +39.3	_
20.00	2.0	< 30.0	29.5	< - 8.0	> +37.5	-
30.00	4.1	< 30.0	29.5	< - 5.9	> +35.4	-



NOTES

- 1. Test Distance : 3 m (Specified Distance D [m] = 300 m (9 kHz 490 kHz) / 30 m (490 kHz 30 MHz)
- 2. The spectrum was checked from 9 kHz to 30 MHz.
- 3. The correction factor includes the antenna factor and the cable loss.
- 4. The symbol of "<" means "or less".
- 5. The symbol of ">" means "more than".
- 6. Calculated result at 30.00 MHz, as the worst point shown on underline: Correction Factor + Meter Reading = $4.1 + <30.0 = <34.1 \text{ dB}(\mu\text{V/m})$ Result at 30 m = $-40.0 + <34.1 = <-5.9 \text{ dB}(\mu\text{V/m})$ (Conversion Factor: 40dB/decade)
- 7. Test receiver setting(s):

Peak 200 Hz (9 kHz - 90 kHz, 110 kHz - 150 kHz) / Peak 9 kHz (150 kHz - 490 kHz) CISPR QP 200 Hz (90 kHz - 110 kHz) / CISPR QP 9 kHz (490 kHz - 30 MHz)



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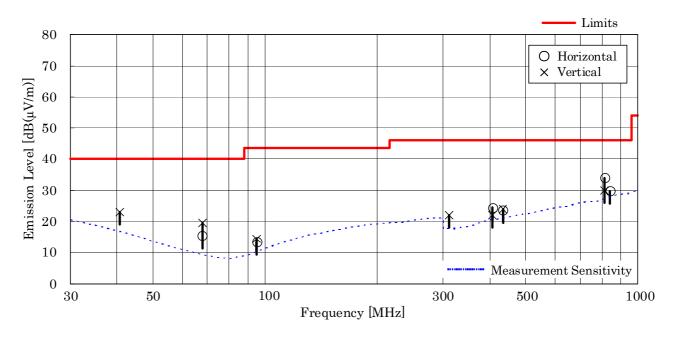
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A.2.2.2 Radiated Emission (§15.209(a))(30MHz - 1000MHz)

Test Date: September 28, 2010 Temp.: 26 °C, Humi: 53 %

Frequency	Antenna Factor	Cable Loss	Meter Rea [dB(μ ^ν	0	Limits [dB(µV/m)]		ults V/m)]	Margin [dB]	Remarks
[MHz]	[dB(1/m)]	[dB]	Hori.	Vert.	, ,,	Hori.	Vert.		
40.7	15.7	1.1	< 0.0	6.2	40.0	< 16.8	23.0	+17.0	_
67.8	7.9	1.5	5.9	10.0	40.0	15.3	19.4	+20.6	-
94.9	8.4	1.8	3.1	4.2	43.5	13.3	14.4	+29.1	_
311.9	14.1	3.5	< 0.0	4.4	46.0	< 17.6	22.0	+24.0	_
406.8	16.4	4.1	3.9	1.4	46.0	24.4	21.9	+21.6	=
433.9	16.6	4.3	2.6	3.0	46.0	23.5	23.9	+22.1	-
813.6	21.2	6.1	6.6	2.7	46.0	33.9	30.0	+12.1	
840.7	21.6	6.2	2.0	< 0.0	46.0	29.8	< 27.8	+16.2	_



NOTES

- 1. Test Distance : 3 m
- 2. The spectrum was checked from 30 MHz to 1000 MHz.
- 3. The symbol of "<" means "or less".4. The symbol of ">" means "more than".
- 5. Calculated result at 813.6 MHz, as the worst point shown on underline: Antenna Factor + Cable Loss + Meter Reading = 21.2 + 6.1 + 6.6 = 33.9 dB(µV/m)
- 6. Test receiver setting(s): CISPR QP 120 kHz (QP: Quasi-Peak)

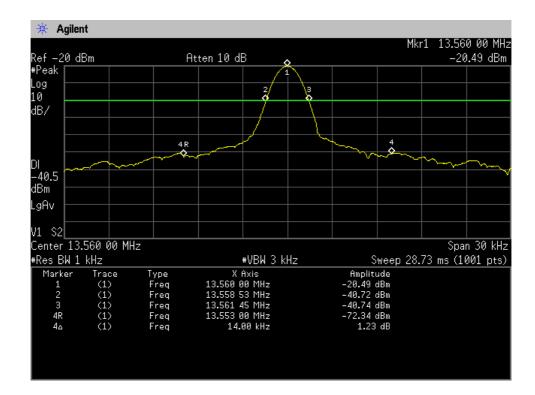


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A.3 Occupied Bandwidth

Test Date: September 23, 2010 Temp.:26°C, Humi:50%





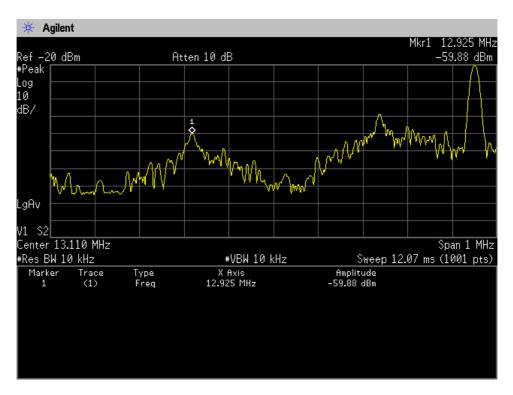
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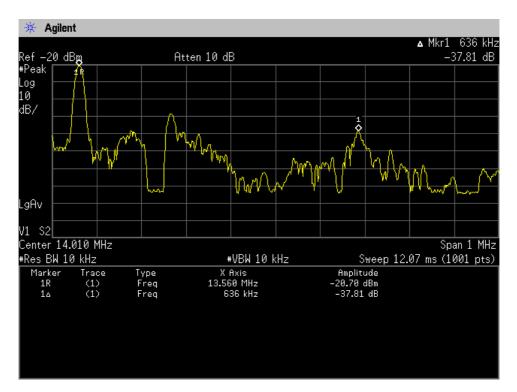
A.4 Band-Edge Emission

Test Date: September 23, 2010 Temp.:26°C, Humi:50%

Band-Edge Emission



Band-Edge Emission





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A.5 Frequency Stability

Test Date: September 23, 2010

Transmitting Frequency : 13.560 MHz DC Supply Voltage : 4.0 VDC

Ambient		Frequency with		
Temperature	Startup	2 minutes	5 minutes	10 minutes
[°C]				
-20	13.560254	13.560261	13.560262	13.560262
20	13.560118	13.560090	13.560083	13.560078
50	13.559884	13.559860	13.559853	13.559848

Ambient		Diviation with	time elapse[%]	Limits	Margin	
Temperature [°C]	Startup	2 minutes	5 minutes	10 minutes	[%]	[%]
-20	+ 0.001871	+ 0.001926	+ 0.001930	+ 0.001931	0.01	+ 0.008069
20	+ 0.000871	+ 0.000665	+ 0.000611	+ 0.000576	0.01	+ 0.009129
50	- 0.000859	- 0.001033	- 0.001081	- 0.001118	0.01	+ 0.008882

Sample of calculated result at 13.560 MHz, as the Minimum Margin point:

Ambient Temperature : -20 °C / 10 minutes

DC Supply Voltage 4.0V

Minimum Margin: 0.010000 - 0.001931 = 0.008069 (%)

The point shown on "____" is the Minimum Margin Point. The Maximum Deviation Point is shown on a thick letter.

Note: The measurement were made after all of components of the oscillator sufficiently stabilized at each temperature.



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Appendix B: Test Arrangement (Photographs)

B.1 AC Powerline Conducted Emission

Not Applicable

B.2 Radiated Emission

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Appendix C: Test Instruments

C.1 AC Powerline Conducted Emission

Not Applicable

C.2 Radiated Emission

C.2.1 Radiated Emission 9 kHz – 30 MHz

Туре	Model	Manufacturer	ID No.	Last Cal.	Interval
Test Receiver	ESCS 30	Rohde & Schwarz	A-1	2010/2	1 Year
Loop Antenna	HFH2-Z2	Rohde & Schwarz	C-3	2010/8	1 Year
RF Cable	RG213/U	Rohde & Schwarz	H-29	2010/8	1 Year

C.2.2 Radiated Emission 30MHz - 1000 MHz

Туре	Model	Manufacturer	ID No.	Last Cal.	Interval
Test Receiver	ESCS 30	Rohde & Schwarz	A-1	2010/2	1 Year
Biconical Antenna	VHA9103/FBAB9177	Schwarzbeck	C-25	2010/5	1 Year
Log-periodic Antenna	UHALP9108-A1	Schwarzbeck	C-28	2010/5	1 Year
RF Cable			H-1	2010/5	1 Year
Site Attenuation			H-11	2009/11	1 Year

C.3 Modulation Characteristics

Not Applicable

C.3 Occupied Bandwidth

Туре	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	E4406A	Agilent	A-39	2010/9	1 Year
Loop Antenna	LU-100A (S/N:10020729)	KENWOOD		N/A	N/A

C.4 Band-Edge Emission

Туре	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	E4406B	Agilent	A-39	2010/9	1 Year
Loop Antenna	LU-100A (S/N:10020729)	KENWOOD		N/A	N/A



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C.5 Frequency Stability

Туре	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	FSL3	Rohde & Schwarz	A-40	2010/1	1 Year
Loop Antenna	LU-100A (S/N:10020729)	KENWOOD		N/A	N/A
DC Voltage Meter	2011-39	YEW	B-33	2010/4	1 Year
L Environmental Chamber	PL-4KPH (S/N:14019933)	TABAI ESPEC		N/A	N/A
Temperature Recorder	SRF106AS00000M11 (S/N:08242304)	TABAI ESPEC		2009/10	1 Year