

HID GLOBAL CORPORATION

RFID READER OPERATING ON 125KHZ & 13.56 MHZ

Model: RPKCL40E

May 10 2012

Report No.: SL12040302-HID-014 RPKCL40E (FCC)

(This report supersedes NONE)



RF Test Report

47 CFR Part 15.225: 2011

SIEMIC, INC.
Accessing global markets



CERTIFICATE OF TEST

Date of Issue : May 7th 2012

Company Name : HID Global Corporation

Product Name/Model : RFID Reader, Operating on 125KHz & 13.56 MHz/ RPKCL40E

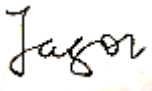
Stipulated Standard :
(1) 47 CFR §15.225: 2011

Equipment complied with the specification ☒ [X]
Equipment did not comply with the specification ☐ []

The submission documentation to a National Regulatory Body for type approval purposes shall consist of two parts; Part one : Application Form;
Part two: Test Report;

Modifications made to the product : None

This Test Report is Issued Under the Authority of:

	
Jason Zhang Compliance Engineer	Leslie Bai Engineering Reviewer

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Test result presented in this test report is applicable to the representative sample only.

Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to [testing](#) and [certification](#), SIEMIC provides initial design reviews and [compliance management](#) through out a project. Our extensive experience with [China](#), [Asia Pacific](#), [North America](#), [European](#), and [international](#) compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the [global markets](#).

Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom , SAR
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom , SAR
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless ,Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety , SAR
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety, SAR

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC, (RCB 208)	RF , Telecom
HongKong	OFTA (US002)	RF , Telecom

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1 Executive Summary & EUT information

The purpose of this test program was to demonstrate compliance of the HID Global Corporation, RFID reader operating on 125 KHz and 13.56 MHz, model: RPKCL40E, against the current Stipulated Standards for FCC Class II Permissive Change. The RPKCL40E have demonstrated compliance with the 47 CFR §15.225: 2011

Applicant & EUT Information

Applicant Information

Applicant / Client	HID Global Corporation 15370 Barranca Parkway, Irvine, CA 92618 , USA
Manufacturer¹	HID Global Corporation 15370 Barranca Parkway, Irvine, CA 92618 , USA

EUT Information

EUT Description	:	The RPKCL40E is a 125KHz & 13.56 MHz Contact less Smart Card Readers with Keypad intended to be used in access control systems, parking systems and other applications using RFID readers. It is capable of reading 125KHz & 13.56 MHz inductive tags.
Model No	:	RPKCL40E
Serial No	:	N/A
Input Power	:	12 VDC
Classification Per Stipulated Test Standard	:	RFID Reader

2 TECHNICAL DETAILS

Laboratory performing the tests	SIEMIC Laboratories 2206 Ringwood Ave, San Jose, CA 95131
Date of EUT received	April 6th, 2012
Dates of test (from – to)	April 6th – April 24th, 2012
Equipment Category	RFID Reader
Standard applied	See page 2
FCC ID	JQ6-ICLASSRPKCL40E
IC ID	2236B-ICLASSRPKCL40E

EUT Test Mode Evaluation

EUT Major Function List

Functions	Description
Fn#1	Contact less Smart Card Read

EUT Test Mode List

RF Test Modes	Description	Test Configuration
RF_Test Mode	EUT continuous transmit itself when power on	Continuous TX

Supporting Equipment & Cabling

Supporting equipment used with the EUT

Equipment Description	Model	Serial No.	Manufacturer
DC Power Supply	TPS-2000	45034	Topward Electric Instruments Co.

Details of cables between EUT and Supporting Equipment

Connection Start		Connection Stop		Length / shielding Info	
From	I/O Port	To	I/O Port	Length(m)	Shielding
EUT	DC-in	DC Power Supply	DC-out	<1	shielded
DC Power Supply	AC-in	AC-Adapter	AC-out	1	shielded

Test Software Information

Test Item	Software	Description
Radiated & conducted Testing	N/A	EUT continuous transmit itself when power on

3 MODIFICATION

Report No.	Report Version	Description	Issue Date
SL12040302-HID-014 RPKCL40E (FCC)	None	Original	05/07/2012

4 TEST SUMMARY

The product was tested in accordance with the following specifications.

All Testing has been performed according to below product classification:

RFID reader

Test Results Summary

Test Standard	Description	Pass / Fail
47 CFR Part 15.225: 2011		
15.203	Antenna Requirement	Pass*
15.207(a)	Conducted Emissions Voltage	Pass
15.225(a)	Limit in the band of 13.553 – 13.567 MHz	Pass*
15.225(b)	Limit in the band of 13.410 – 13.553 MHz and 13.567 – 13.710 MHz	Pass*
15.225(c)	Limit in the band of 13.110 – 13.410 MHz and 13.710 – 14.010 MHz	Pass*
15.225(d), 15.209	Limit outside the band of 13.110 – 14.010 MHz	Pass
15.225(e)	Frequency Stability	Pass*
PS: All measurement uncertainties are not taken into consideration for all presented test result.		
*Note: results refer to original test report: SL12040302-HID-015 RPK40E (FCC, IC).		

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 Antenna Requirement

Requirement(s): 47 CFR §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
 - b) Antenna must use a unique type of connector to attach to the device.
 - c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.
-
- 1) The RFID antenna is integral to the main board permanently to the device which meets the requirement (See Internal Photographs submitted as another Exhibit).

Results: Pass

5.2 Conducted Emissions Voltage

Requirement(s): 47 CFR §15.207

Requirement:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

Procedures:

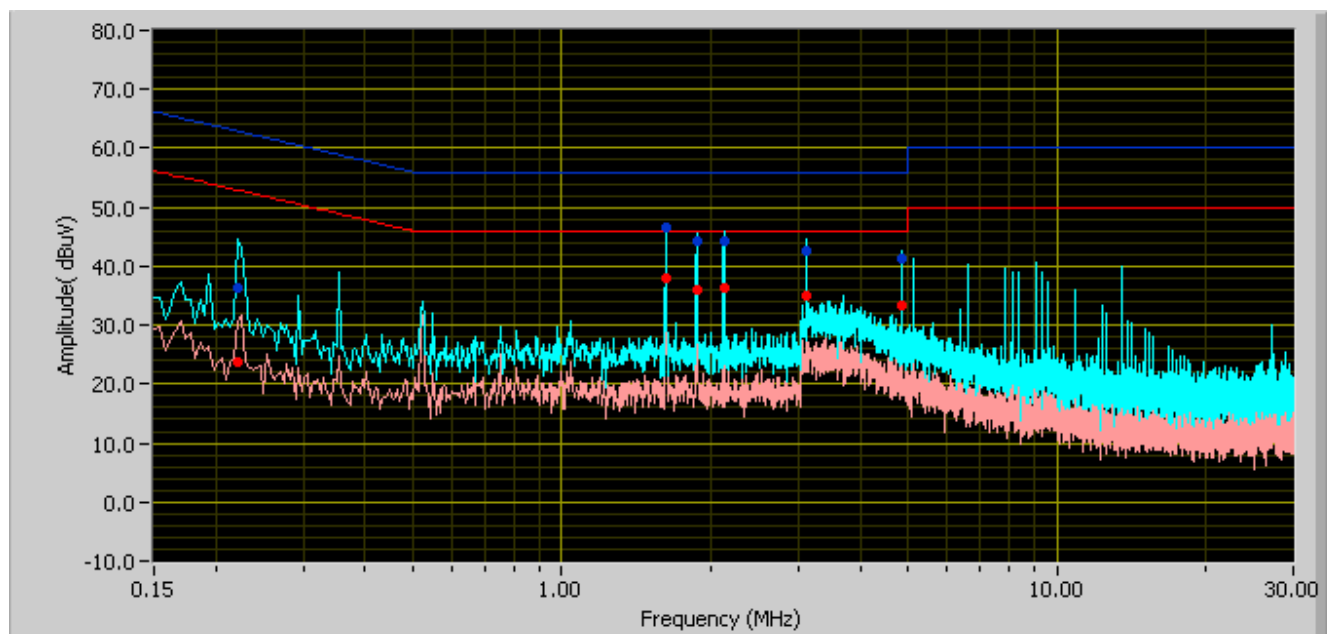
- All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
- A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is $\pm 3.5\text{dB}$.
- | | | |
|--------------------------|----------------------|----------|
| Environmental Conditions | Temperature | 21°C |
| | Relative Humidity | 48% |
| | Atmospheric Pressure | 1019mbar |

Test Date : April 10th-24th 2012
Tested By : Jason Zhang

Results: Pass

Test Result (Terminal Cable)

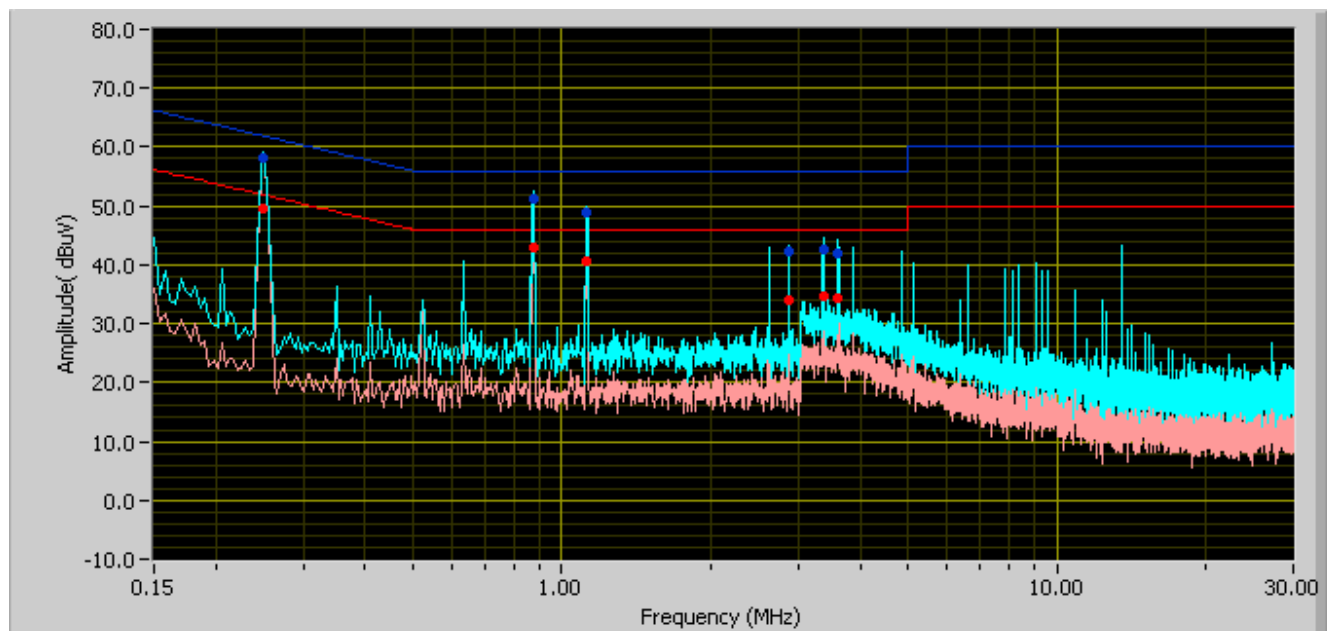


Quasi-Peak Limit

Average Limit

120V, 60Hz, Neutral Line

Frequency (MHz)	QP Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Avg Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Line
0.22	36.47	62.87	Pass	-26.40	23.74	52.87	Pass	-29.13	Neutral
1.62	46.47	56.00	Pass	-9.53	38.06	46.00	Pass	-7.94	Neutral
1.87	44.13	56.00	Pass	-11.87	35.92	46.00	Pass	-10.08	Neutral
2.12	44.40	56.00	Pass	-11.60	36.19	46.00	Pass	-9.81	Neutral
3.12	42.53	56.00	Pass	-13.47	35.01	46.00	Pass	-10.99	Neutral
4.87	41.27	56.00	Pass	-14.73	33.33	46.00	Pass	-12.67	Neutral



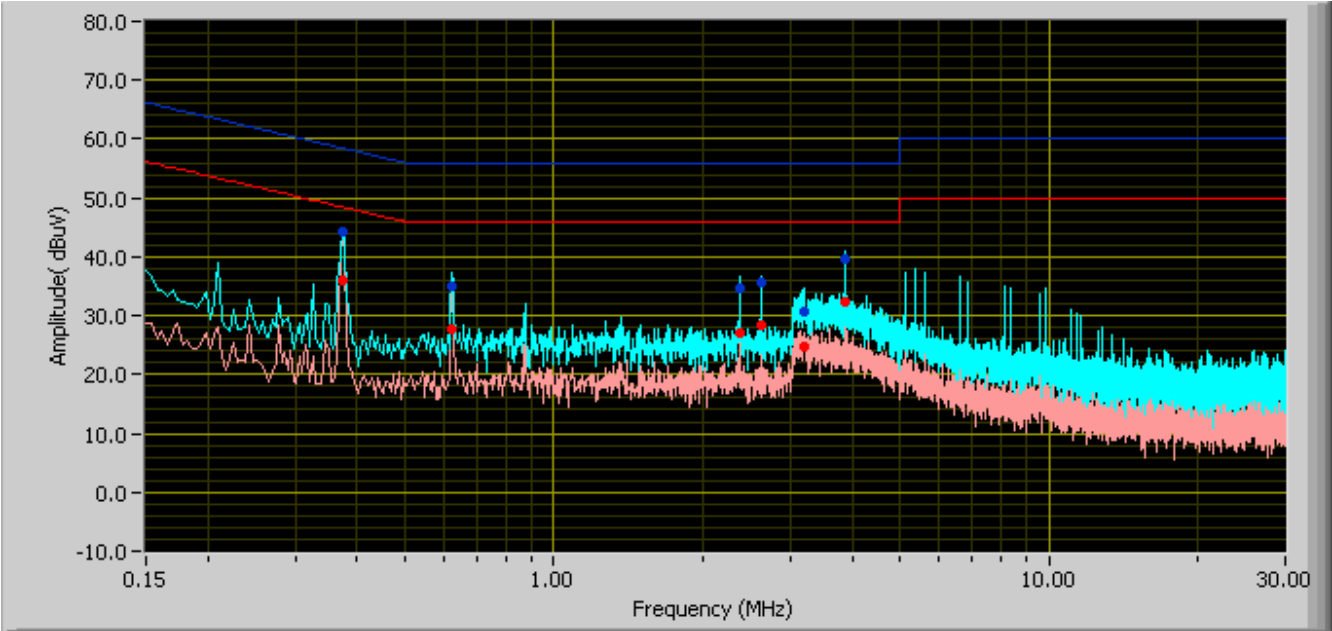
Quasi-Peak Limit

Average Limit

120V, 60Hz, Phase Line

Frequency (MHz)	QP Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Avg Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Line
0.25	58.17	61.86	Pass	-3.70	49.71	51.86	Pass	-2.15	Phase
0.87	51.38	56.00	Pass	-4.62	42.82	46.00	Pass	-3.18	Phase
1.12	48.87	56.00	Pass	-7.13	40.60	46.00	Pass	-5.40	Phase
2.87	42.14	56.00	Pass	-13.86	34.07	46.00	Pass	-11.93	Phase
3.37	42.46	56.00	Pass	-13.54	34.73	46.00	Pass	-11.27	Phase
3.62	41.96	56.00	Pass	-14.04	34.36	46.00	Pass	-11.64	Phase

Test Result (Pigtail Cable)

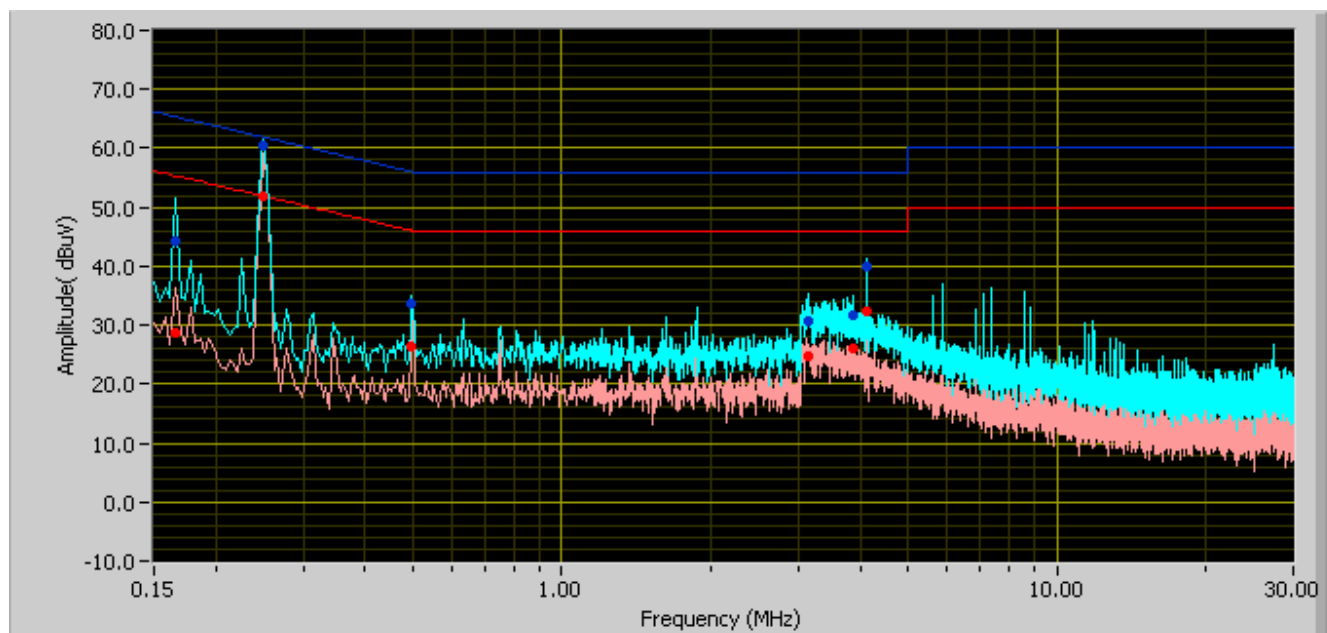


Quasi-Peak Limit

Average Limit

120V, 60Hz, Neutral Line

Frequency (MHz)	QP Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Avg Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Line
0.37	44.15	58.45	Pass	-14.31	35.94	48.45	Pass	-12.51	Neutral
0.62	35.06	56.00	Pass	-20.94	27.68	46.00	Pass	-18.32	Neutral
2.37	34.66	56.00	Pass	-21.34	27.17	46.00	Pass	-18.83	Neutral
2.62	35.66	56.00	Pass	-20.34	28.30	46.00	Pass	-17.70	Neutral
3.21	30.64	56.00	Pass	-25.36	24.88	46.00	Pass	-21.12	Neutral
3.87	39.64	56.00	Pass	-16.36	32.33	46.00	Pass	-13.67	Neutral



Quasi-Peak Limit

Average Limit

120V, 60Hz, Phase Line

Frequency (MHz)	QP Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Avg Value (dBμV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Line
0.17	44.22	65.33	Pass	-21.11	28.61	55.33	Pass	-26.72	Phase
0.25	60.44	61.86	Pass	-1.42	51.00	51.86	Pass	-0.86	Phase
0.50	33.66	56.03	Pass	-22.37	26.24	46.03	Pass	-19.79	Phase
3.16	30.69	56.00	Pass	-25.31	24.84	46.00	Pass	-21.16	Phase
3.86	31.80	56.00	Pass	-24.20	25.93	46.00	Pass	-20.07	Phase
4.12	39.84	56.00	Pass	-16.16	32.25	46.00	Pass	-13.75	Phase

5.3 Radiated Emission < 30MHz (9kHz - 30MHz, H-Field)

Requirement(s): 47 CFR §15.225

Procedures: For < 30MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the centre of the loop. The measuring bandwidth was set to 10 kHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT.)

The limit is converted from microvolt/meter to decibel microvolt/meter.

Sample Calculation: Corrected Amplitude = Raw Amplitude (dBµV/m) + ACF (dB) + Cable Loss (dB) – Distance Correction Factor

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, is +/- 6dB.
4.

Environmental Conditions	Temperature	23°C
	Relative Humidity	48%
	Atmospheric Pressure	1019mbar

Test Date : N/A
Tested By : N/A

Results: N/A

5.4 Radiated Emissions > 30 MHz (30MHz – 1 GHz, E-Field)

Requirement(s): 47 CFR §15.209; 47 CFR §15.225(d)

Procedures: For > 30MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The Log periodic antenna was positioned 1 meter above the ground from the centre of the antenna. The measuring bandwidth was set to 120 kHz. (Note: During testing the receive antenna was raise from 1~4 meters to maximize the emission from the EUT.)

The limit is converted from microvolt/meter to decibel microvolt/meter.

Sample Calculation: Corrected Amplitude = Raw Amplitude (dBμV/m) + ACF (dB) + Cable Loss(dB) – Distance Correction Factor

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A “-ve” margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, is +/- 6dB.

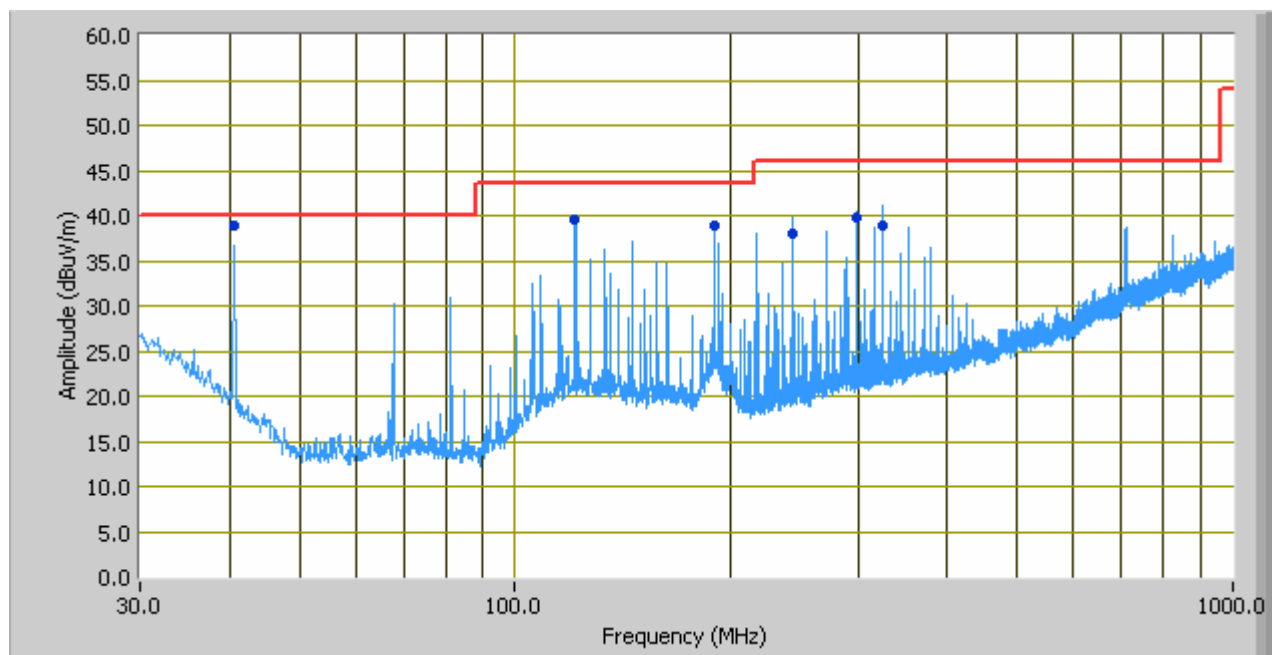
- | | | |
|-----------------------------|----------------------|----------|
| 4. Environmental Conditions | Temperature | 23°C |
| | Relative Humidity | 48% |
| | Atmospheric Pressure | 1019mbar |

Test Date : April 10th-24th 2012

Tested By : Jason Zhang

Results: Pass

Test Result (Terminal Cable)

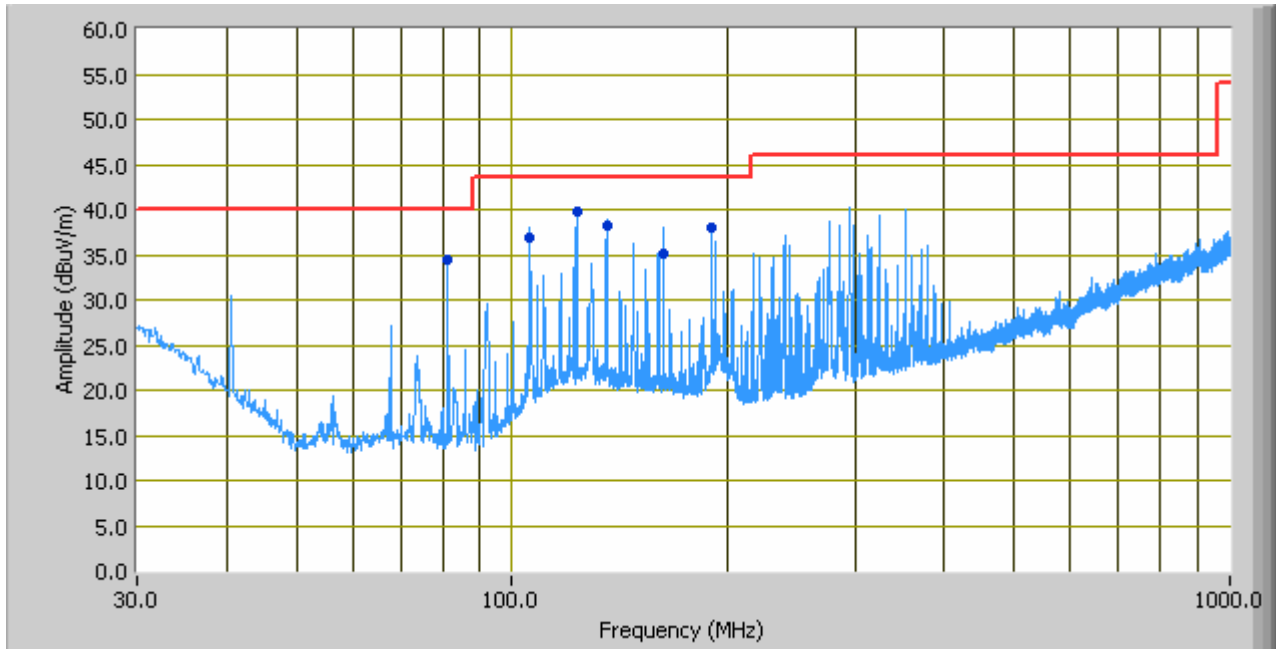


Limit

Radiated Emission Test Table 30MHz ~ 1000MHz

Frequency	Corrected Amplitude	Turntable position	Polarity	Antenna height	ClassB Limit	Margin	Measure Detector
(MHz)	@ 3m	(deg)		(cm)	(dBμV/m)	(dB)	
40.68	38.86	19.00	V	108.00	40.00	-1.14	QP
121.31	39.58	325.00	H	248.00	43.52	-3.94	QP
189.86	38.78	17.00	H	136.00	43.52	-4.74	QP
244.09	38.05	210.00	H	106.00	46.00	-7.95	QP
298.34	39.86	278.00	H	100.00	46.00	-6.14	QP
325.46	38.90	274.00	H	109.00	46.00	-7.10	QP

Test Result (Pig Tail Cable)



Limit

Radiated Emission Test Table 30MHz ~ 1000MHz

Frequency	Corrected Amplitude	Turntable position	Polarity	Antenna height	ClassB Limit	Margin	Measure Detector
(MHz)	@ 3m	(deg)		(cm)	(dBμV/m)	(dB)	
81.37	34.46	170.00	H	222.00	40.00	-5.54	QP
105.66	36.85	98.00	V	103.00	43.52	-6.67	QP
122.97	39.76	310.00	H	228.00	43.52	-3.76	QP
135.61	38.20	327.00	H	169.00	43.52	-5.32	QP
162.72	35.16	143.00	H	183.00	43.52	-8.36	QP
189.84	37.89	14.00	H	124.00	43.52	-5.63	QP

5.5 Frequency Stability

Requirement(s): 47 CFR §15.225(e)

Procedures: Frequency Stability was measured according to 47 CFR §2.1055. Measurement was taken with spectrum analyzer. The spectrum analyzer bandwidth and span was set to read in hertz. A voltmeter was used to monitor when varying the voltage.

Limit: $\pm 0.01\%$ of 13.56 MHz = 1356 Hz

Environmental Conditions	Temperature	23°C
	Relative Humidity	48%
	Atmospheric Pressure	1019mbar

Test Date : N/A

Tested By : N/A

Results: N/A

5.6 Fundamental Field Strength Test Result

1.

All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2.

A “-ve” margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3.

Radiated Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, is +/- 6dB.
4.

Environmental Conditions	Temperature	23°C
	Relative Humidity	48%
	Atmospheric Pressure	1019mbar

Test Date : N/A
Tested By : N/A

5.7 Occupied Bandwidth

Requirement(s): RSS-210 (5.9.1)

Procedures: Occupied Bandwidth was measured according to RSS-210 (5.9.1). Measurement was taken with spectrum analyzer. The spectrum analyzer bandwidth and span was set to read in hertz.

Environmental Conditions	Temperature	23°C
	Relative Humidity	50%
	Atmospheric Pressure	1019mbar

Test Date : NA
Tested By : N/A

Results: NA

Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due	Calibrate Cycle
CONDUCTED EMISSIONS					
R & S Receiver	ESIB 40	100179	05/19/2011	05/19/2012	1year
R&S LISN	ESH2-Z5	861741/013	05/18/2011	05/18/2012	1year
CHASE LISN	MN2050B	1018	05/18/2011	05/18/2012	1year
Sekonic Hygro Hermograph	ST-50	HE01-000092	06/04/2011	06/04/2012	1year
Radiated Emissions					
R & S Receiver	ESIB 40	100179	05/19/2011	05/19/2012	1year
Sunol Sciences, Inc. antenna (30MHz~2GHz)	JB1	A030702	06/01/2011	06/01/2012	1year
3 Meters SAC	3M	N/A	10/13/2011	10/13/2012	1year
10 Meters OATS	10M	N/A	06/17/2011	06/17/2012	1year
Sekonic Hygro Hermograph	ST-50	HE01-000092	06/04/2011	06/04/2012	1year
Test Equity Environment Chamber	1007H	61201	06/01/2011	06/01/2012	1year
Passive Loop Antenna (10kHz-30MHz)	6512	49120	08/31/2011	08/31/2012	1year

Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.

Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Sample Calculation Example

At 20 MHz limit = 250 μV = 47.96 dBμV

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dBμV
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96 i.e. **7.96 dB below limit**

Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 5th harmonic for operating frequencies $\geq$ 108MHz), was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred; clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table as shown in Annex B.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.

Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
 - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. A Quasi-peak measurement was then made for that frequency point.
4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
5. The frequency range covered was from 30MHz to 1GHz (for FCC tests, until the 5th harmonic for operating frequencies $\geq$ 108MHz), using the Biconical antenna for frequencies from 30MHz to 230MHz, Log-periodical antenna for frequencies from 230MHz to 1GHz, and the Horn antenna above 1GHz.

Sample Calculation Example

At 300 MHz

limit = 200 μ V/m = 46.00 dB μ V/m

Log-periodic antenna factor & cable loss at 300 MHz = 18.50 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB μ V/m

(Calibrated level including antenna factors & cable losses)

Therefore, Q-P margin = 46.00 – 40.00 = 6.00

i.e. **6 dB below limit**

Annex B EUT PHOTOGRAPHS

Annex B.i. Photograph 1: EUT External Photo

Please see attachment

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

TEST SETUP

Please see attachment

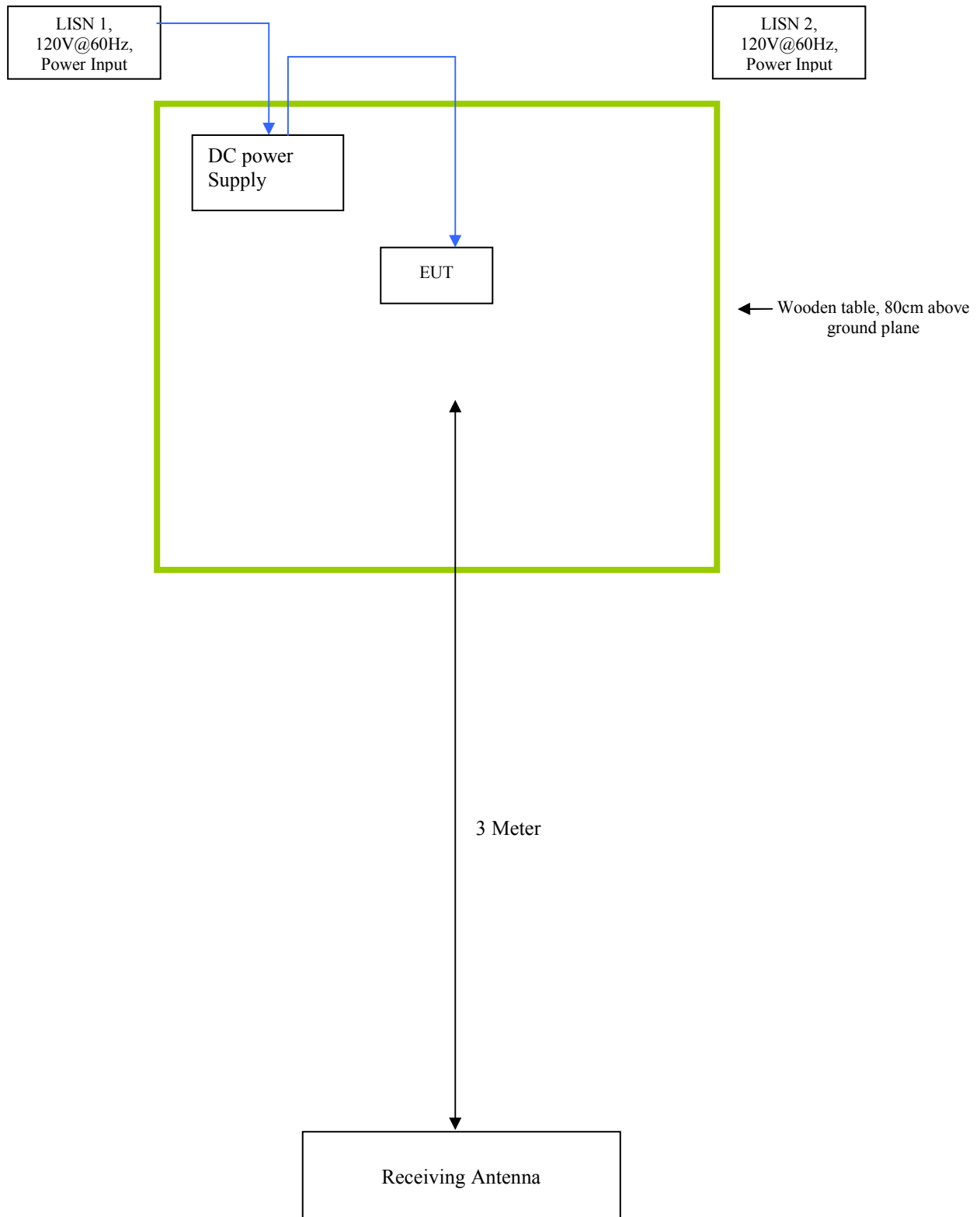
TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

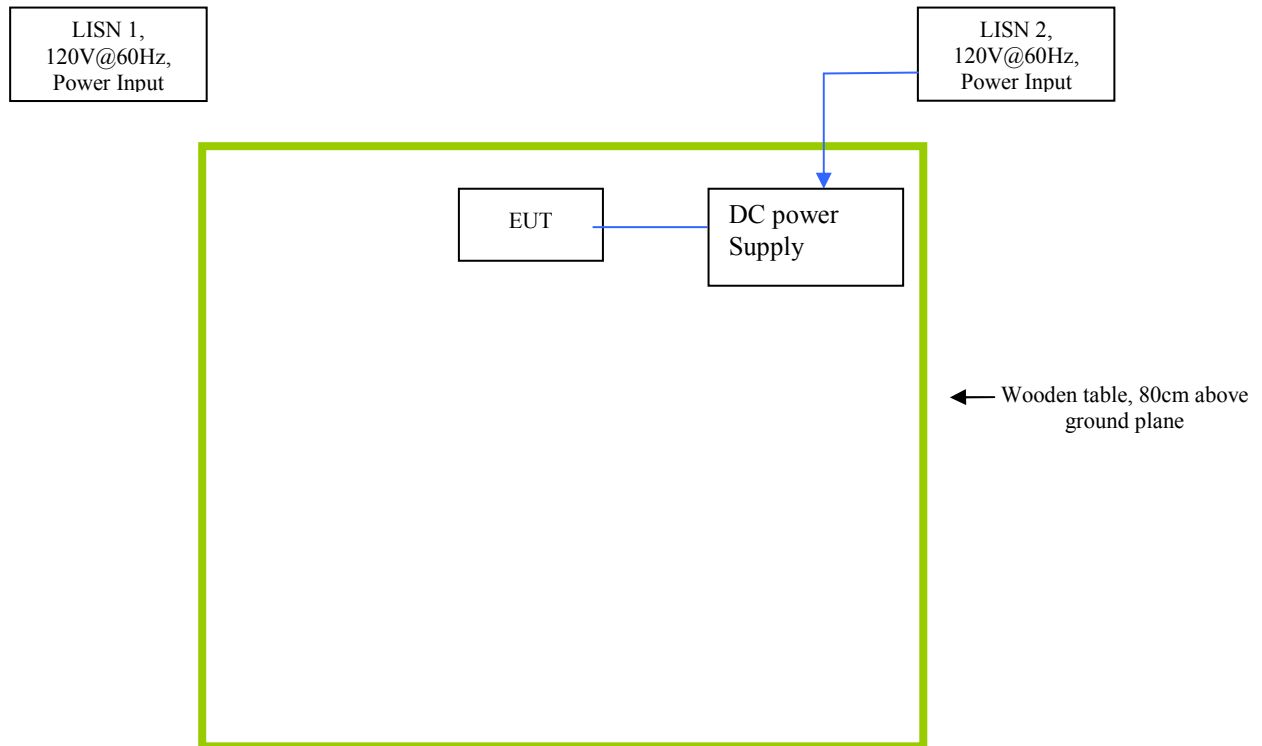
The following is a description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)

Block Configuration Diagram for Radiated Emission



Block Configuration Diagram for Conducted Emission



Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was continuously transmitting itself when power on.
Others Testing	The EUT was continuously transmitting itself when power on.

Annex D USER MANUAL, BLOCK & CIRCUIT DIAGRAM

Please see attachment