

Report No.: FD012030-03

FCC Test Report

APPLICANT : Option NV

EQUIPMENT: 3.75G USB modem

BRAND NAME : Option
MODEL NAME : GI0335
MARKETING NAME : GI0335

FCC ID : NCMOGI0335

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jan. 28, 2010 and completely tested on Feb. 13, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Roy Wu / Manager





SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD012030-03	Rev. 01	Initial issue of report	Feb. 23, 2010
FD012030-03	Rev. 02	Updated Classification Type	Feb. 24, 2010

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
				< 15.107 limits		Under limit
3.1	15.107	7.2.2	AC Conducted Emission	< RSS-Gen table 2 limits	PASS	10.5 dB at
						0.15 MHz
				< 15.109 limits or		Under limit
3.2	15.109 7.	7.2.3.2	Radiated Emission	< RSS-Gen table 1 limits	PASS	3.28 dB at
				(Section 6)		59.43 MHz

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1. General Description

1.1. Applicant

Option NV

Gaston Geenslaan 14 - 3001 Leuven - Belgium

1.2. Manufacturer

Quanta Computer Inc.

No. 211, Wen Hwa 2nd Road, Kuei Shan Hsiang, Tao Yuan Shien, Taiwan

1.3. Feature of Equipment Under Test

Product Feature & Specification					
Equipment	3.75G USB modem				
Brand Name	Option				
Model Name	GI0335				
Marketing Name	GI0335				
FCC ID	NCMOGI0335				
Tx Frequency Range	GSM850 : 824 MHz ~ 849 MHz				
TX Frequency Kange	GSM1900 : 1850 MHz ~ 1910 MHz				
Rx Frequency Range	GSM850 : 869 MHz ~ 894 MHz				
TX Frequency Range	GSM1900 : 1930 MHz ~ 1990 MHz				
Antenna Type	Fixed Internal Antenna				
HW Version	1.1.0.0				
SW Version	091209_GK8PON_M0.03				
Type of Modulation	GSM / GPRS : GMSK				
Type of Modulation	EDGE: 8PSK				
EUT Stage	Production Unit				

Remark:

The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4. Test Site

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Took Cita Logation	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.				
Test Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Toot Site No	Sporton Site No. FCC/IC Registration				
Test Site No.	CO05-HY	03CH06-HY	TW1022/4086B-1		

1.5. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- IC RSS-Gen Issue 2

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
4.	iPod	Apple	A1199	FCC DoC Unshielded, 1.2 n		N/A
5.	iPod	Apple	A1285	FCC DoC	Unshielded, 1.0 m	N/A

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

			Test Condition	
Item	EUT Configuration	ЕМІ	EMI	ЕМІ
		AC	RE<1G	RE≥1G
1.	Operating Mode (EUT with notebook)		\boxtimes	

Abbreviations:

EMI AC: AC conducted emissions

• EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1: GSM850 Idle + USB Link Mode 2: GSM1900 Idle + USB Link
Radiated Emissions < 1GHz	1	Mode 1: GSM850 Idle + USB Link Mode 2: GSM1900 Idle + USB Link
Radiated Emissions ≥ 1GHz	1	Mode 1: GSM1900 Idle + USB Link

Remark:

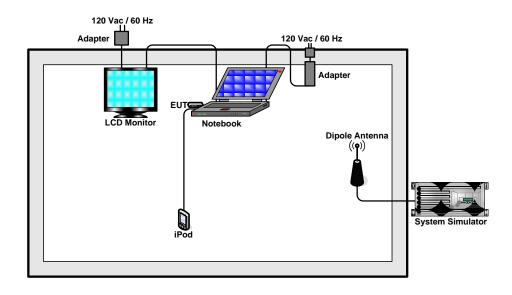
- 1. The worst case of AC is mode 1; only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 2; only the test data of this mode was reported.

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2.2. Connection Diagram of Test System



2.3. Test Software

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

The program, "Winthrax" was installed in notebook for active sync files transfer with EUT.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment 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.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	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.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference. 6.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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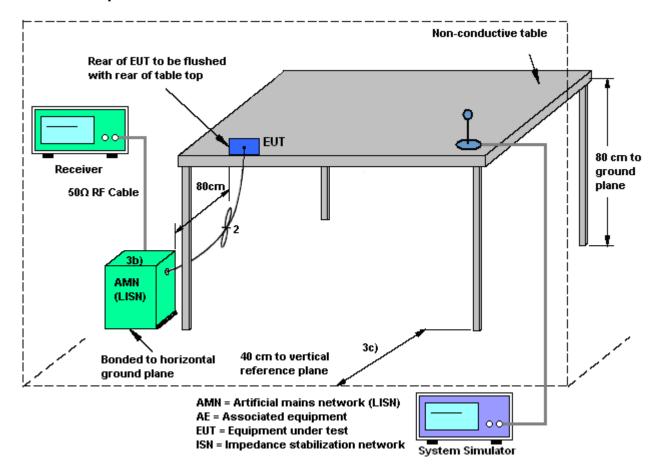
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3.1.4 Test Setup



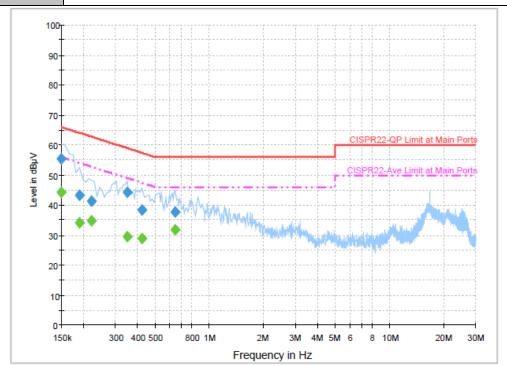
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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23 ℃				
Test Engineer :	Hayden Wu	Relative Humidity :	52~55%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
Function Type :	GSM850 Idle + USB Link						
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.						



Final Result 1

Frequency	QuasiPeak	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	riitei	Line	(dB)	(dB)	(dBµV)
0.150000	55.5	Off	L1	19.5	10.5	66.0
0.190000	43.3	Off	L1	19.6	20.7	64.0
0.222000	41.2	Off	L1	19.6	21.5	62.7
0.350000	44.3	Off	L1	19.5	14.7	59.0
0.422000	38.2	Off	L1	19.4	19.2	57.4
0.646000	37.8	Off	L1	19.5	18.2	56.0

Final Result 2

•	mai recount						
	Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
	0.150000	44.3	Off	L1	19.5	11.7	56.0
	0.190000	34.2	Off	L1	19.6	19.8	54.0
	0.222000	34.9	Off	L1	19.6	17.8	52.7
	0.350000	29.4	Off	L1	19.5	19.6	49.0
	0.422000	28.9	Off	L1	19.4	18.5	47.4
	0.646000	31.8	Off	L1	19.5	14.2	46.0

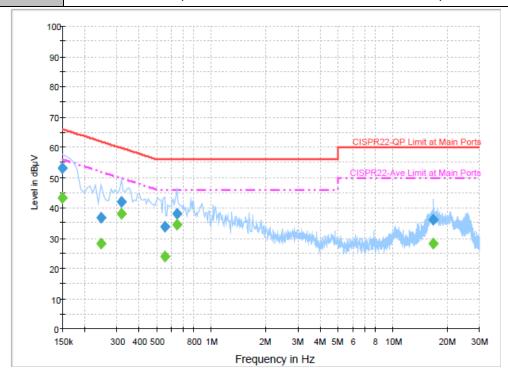
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Test Mode: Mode 1 **21~23**℃ Temperature : Hayden Wu 52~55% Test Engineer: **Relative Humidity:** Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + USB Link

Function Type:

All emissions not reported here are more than 10 dB below the prescribed limit. Remark:



Final Result 1

Frequency	QuasiPeak	F :14	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter		(dB)	(dB)	(dBµV)
0.150000	53.1	Off	N	19.5	12.9	66.0
0.246000	36.7	Off	N	19.5	25.2	61.9
0.318000	41.9	Off	N	19.5	18.0	59.8
0.550000	33.9	Off	N	19.5	22.1	56.0
0.646000	38.2	Off	N	19.5	17.8	56.0
16.710000	36.0	Off	N	19.8	24.0	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.3	Off	N	19.5	12.7	56.0
0.246000	28.1	Off	N	19.5	23.8	51.9
0.318000	37.9	Off	N	19.5	11.9	49.8
0.550000	23.8	Off	N	19.5	22.2	46.0
0.646000	34.4	Off	N	19.5	11.6	46.0
16.710000	28.3	Off	N	19.8	21.7	50.0

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 – 1.705	24000/F(kHz)	30		
1.705 – 30.0	30	30		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

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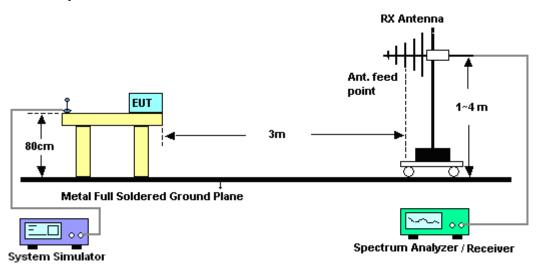
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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
- 8. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission



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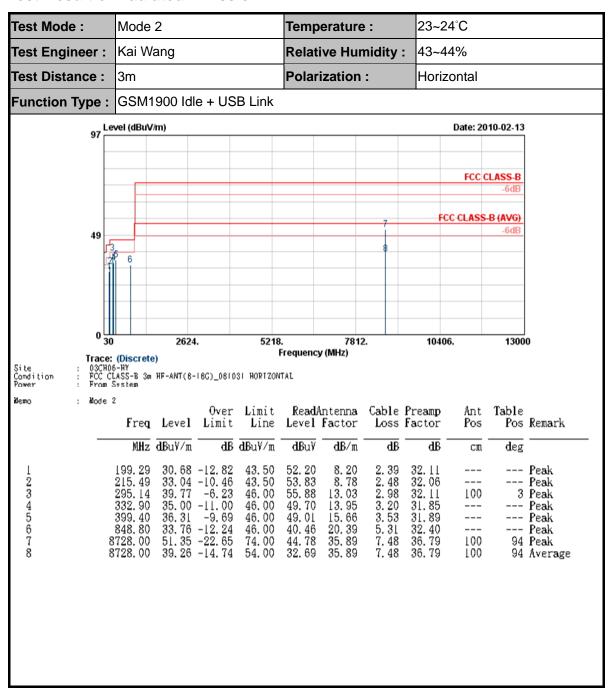
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3.2.5. Test Result of Radiated Emission



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829.90

8684.00 39.43 -14.57

54.00

32.94

8684.00



23~24°C Test Mode: Mode 2 Temperature : 43~44% Test Engineer: Kai Wang Relative Humidity: 3m Polarization: Test Distance: Vertical GSM1900 Idle + USB Link Function Type: 97 Level (dBuV/m) Date: 2010-02-13 FCC CLASS-B FCC CLASS-B (AVG) 49 0 <mark>≒</mark>0 2624. 5218. 7812. 10406. 13000 Frequency (MHz) Trace: (Discrete) 03CH06-HY FCC CLASS-B 3m HF-ANT(8-18G)_081031 VERTICAL From System Site Condition Power Memo : Mode 2 Over Limit ReadAntenna Cable Preamp Ant Table Freq Level Limit Line Level Factor Loss Factor Pos Pos Remark MHz dBuV/m dB dBu√π dB/m dВ **dB**u¥ deg cm31. 91 31. 97 32. 02 32. 04 32. 32 32. 31 36. 77 48. 63 52. 14 59. 43 35. 05 33. 62 36. 72 54.95 1.10 -4.9540.00 10.91 --- Peak ---1234567 -6. 38 -3. 28 10.31 6.91 --- Peak 360 QP 40.00 40.00 I. I3 I. 24 54.15 60.60 100 4. 60 4. 79 5. 23 7. 42 7. 42 34. 04 -11. 96 35. 40 -10. 60 35. 69 -10. 31 50. 39 -23. 61 46.00 46.00 46.00 74.00 42. 43 43. 53 42. 50 43. 90 663.30 719.30 19.05 --- Peak 19. 40 20. 27 35. 85 35. 85 ------ Peak

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--- Peak

11 Peak

11 Average

100

100



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Test Receive	R&S	ESCS 30	100356	9KHz – 2.75GHz	Aug. 05, 2009	Aug. 04, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9kHz~30MHz	Nov. 30, 2009	Nov. 29, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9kHz~30MHz	Nov. 23, 2009	Nov. 22, 2010	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 23, 2009	Oct. 22, 2010	Radiation (03CH06-HY)
Spectrum Analyzer	R&S	FSP40	100057	9KHz-40GHz	Oct. 20, 2009	Oct. 19, 2010	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz-1000M Hz	Apr. 28, 2009	Apr. 27, 2010	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Oct. 31, 2009	Oct. 30, 2010	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Aug. 20, 2009	Aug. 19, 2010	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Training Research	AH-0801	95119	8GHz~18GHz	Nov. 02, 2009	Nov. 01, 2010	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 14, 2009	Oct. 13, 2010	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz- 26.5GHz	Nov. 11, 2009	Nov. 10, 2010	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9KHz~1GHz	Apr. 20, 2009	Apr. 19, 2010	Radiation (03CH06-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz~30MHz	May 22, 2008	May 21, 2010	Radiation (03CH06-HY)
System Simulator	R&S	CMU200	105934	N/A	Nov. 11, 2008	Nov. 10, 2010	-

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

	Uncerta					
Contribution	dB	Probability Distribution	u(X _i)			
Receiver Reading	0.10	Normal (k=2)	0.05			
Cable Loss	0.10	Normal (k=2)	0.05			
AMN Insertion Loss	2.50	Rectangular	0.63			
Receiver Specification	1.50	Rectangular	0.43			
Site Imperfection	1.39	Rectangular	0.80			
Mismatch	+0.34 / -0.35 U-Shape		0.24			
Combined Standard Uncertainty Uc(y)	1.13					
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.26					

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.41	Normal (k=2)	0.21	
Antenna Factor Calibration	0.83	Normal (k=2)	0.42	
Cable Loss Calibration	0.25	Normal (k=2)	0.13	
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14	
RCV/SPA Specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site Imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39 / -0.41 U-Shape 0.		0.28	
Combined Standard Uncertainty Uc(y)	1.27			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54			

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

	Uncertai				
Contribution	dB	Probability Distribution	u(X _i)	C _i	C _i * u(X _i)
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty Uc(y)	2.36				
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.72				

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP012030-03 as below.

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