

Variant FCC Test Report

APPLICANT : Trimble Navigation Ltd.

EQUIPMENT : PDA

BRAND NAME : Trimble

MODEL NAME : Juno SB

FCC ID : JUP66410

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

This is a variant report which is only valid combined with the original report. The product was received on May 21, 2010 and completely tested on Jul. 05, 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





Report No.: FD8O1703-01

SPORTON INTERNATIONAL INC.

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

Page Number : 1 of 20 Report Issued Date : Jul. 09, 2010

Report Version : Rev. 01



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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: JUP66410



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD8O1703-01	Rev. 01	This is a variant report which is added one new adapter. All the test cases were performed on original report which can be referred to Sporton Report Number FC8O1703 as appendix C; only worst cases were verified.	Jul. 09, 2010

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.2	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 15.6 dB at
				< 15.109 limits or		0.502 MHz Under limit
3.2	15.109	7.2.3.2	Radiated Emission	< RSS-Gen table 1 limits	PASS	3.19 dB at
				(Section 6)		182.28 MHz

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1. General Description

1.1. Applicant

Trimble Navigation Ltd.

935 Stewart Drive, Sunnyvale, CA 94088-3642 U.S.A.

1.2. Manufacturer

GOLDTEK Technology Co., Ltd.

3F., No. 3, Ln. 768, Sec. 4, Pateh Rd., Taipei 115, Taiwan, R.O.C.

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1.3. Feature of Equipment Under Test

Product Feature & Specification						
Equipment	PDA					
Brand Name	Trimble					
Model Name	Juno SB					
FCC ID	JUP66410					
Tx Frequency Range	Bluetooth : 2400 MHz ~ 2483.5 MHz WLAN : 2400 MHz ~ 2483.5 MHz					
Rx Frequency Range	Bluetooth : 2400 MHz ~ 2483.5 MHz WLAN : 2400 MHz ~ 2483.5 MHz GPS : 1.57542 GHz					
Antenna Type	Fixed Internal Antenna					
HW Version	1.0					
SW Version	1.0					
Type of Modulation	Bluetooth (1Mbps): GFSK Bluetooth EDR (2Mbps): π/4-DQPSK Bluetooth EDR (3Mbps): 8-DPSK 802.11b: DSSS (BPSK / QPSK / CCK) 802.11g: OFDM (BPSK / QPSK / 16QAM / 64QAM) GPS: BPSK					
EUT Stage	Identical Prototype					

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 Site Leastion	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.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
4.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
6.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
7.	iPod	Apple	A1285	FCC DoC	Unshielded, 1.2 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 Co	ondition	
Item	EUT Configuration	ЕМІ	EMI	
		AC	RE	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	

Abbreviations:

EMI AC: AC conducted emissions
 EMI RE: EUT radiated emissions

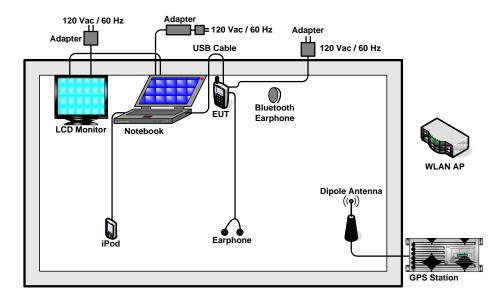
Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1: GPS Rx + Bluetooth Idle + WLAN Idle + Earphone + USB Link + Camera + Adapter 2
Radiated Emissions	1	Mode 1: GPS Rx + Bluetooth Idle + WLAN Idle + Earphone + USB Link + Camera + Adapter 2

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2.2. Connection Diagram of Test System



2.3. Test Software

The EUT was attached to the Bluetooth earphone and WLAN AP during the testing, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the programs, "EMI Test" or "Activesync.exe" under WINXP installed in notebook for active sync files transfer with EUT via USB cable.
- 2. Execute "mGpsCmd" to make the EUT receive signals from GPS station continuously.
- 3. Turn on camera to capture images.

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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

- 1. 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).
- 3. 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.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 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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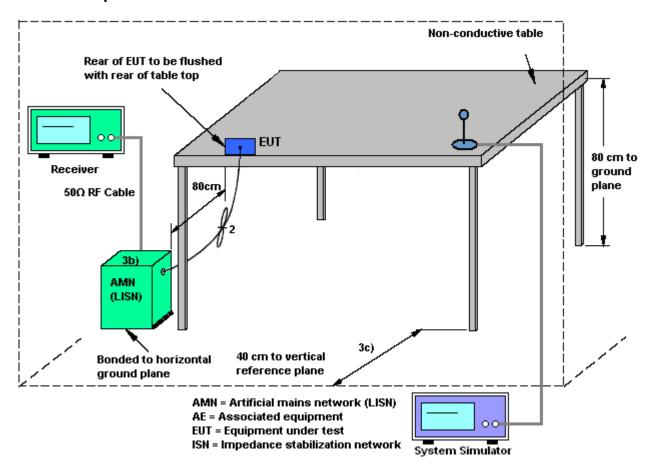
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3.1.4 Test Setup

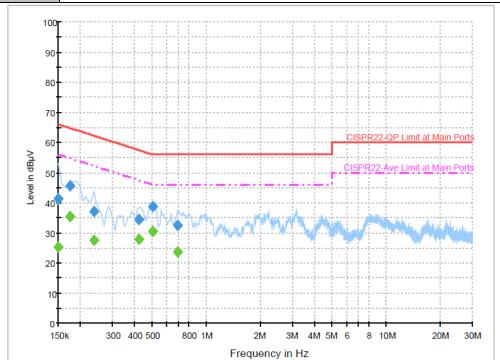


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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22 ℃		
Test Engineer :	Novic Jiang	Relative Humidity :	40~42%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Eurotion Type	GPS Rx + Bluetooth Idle + WLAN Idle + Earphone + USB Link + Camera +				
Function Type :	Adapter 2				
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.				



Final Result 1

Frequency	QuasiPeak	F :14	1 :	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.150000	41.4	Off	L1	19.4	24.6	66.0
0.174000	45.6	Off	L1	19.3	19.2	64.8
0.238000	37.0	Off	L1	19.4	25.2	62.2
0.422000	34.5	Off	L1	19.4	22.9	57.4
0.502000	38.6	Off	L1	19.3	17.4	56.0
0.694000	32.6	Off	L1	19.5	23.4	56.0

Final Result 2

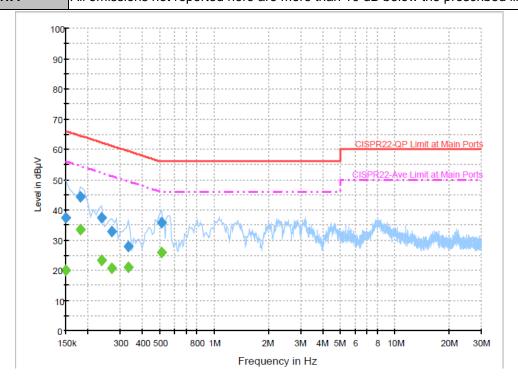
Frequency	Average	F:ltan	1:	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.150000	25.3	Off	L1	19.4	30.7	56.0
0.174000	35.5	Off	L1	19.3	19.3	54.8
0.238000	27.6	Off	L1	19.4	24.6	52.2
0.422000	28.0	Off	L1	19.4	19.4	47.4
0.502000	30.4	Off	L1	19.3	15.6	46.0
0.694000	23.6	Off	L1	19.5	22.4	46.0

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Test Mode: **20~22**℃ Mode 1 Temperature: 40~42% Test Engineer: **Novic Jiang** Relative Humidity: 120Vac / 60Hz Test Voltage: Phase: Neutral GPS Rx + Bluetooth Idle + WLAN Idle + Earphone + USB Link + Camera + **Function Type:** Adapter 2 Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	37.5	Off	N	19.4	28.5	66.0
0.182000	44.2	Off	N	19.4	20.2	64.4
0.238000	37.5	Off	N	19.4	24.7	62.2
0.270000	32.7	Off	N	19.3	28.4	61.1
0.334000	28.0	Off	N	19.3	31.4	59.4
0.510000	35.8	Off	N	19.3	20.2	56.0

Final Result 2

Frequency	Average	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Filler	Lille	(dB)	(dB)	(dBµV)
0.150000	19.9	Off	N	19.4	36.1	56.0
0.182000	33.5	Off	N	19.4	20.9	54.4
0.238000	23.4	Off	N	19.4	28.8	52.2
0.270000	20.6	Off	N	19.3	30.5	51.1
0.334000	20.9	Off	N	19.3	28.5	49.4
0.510000	26.1	Off	N	19.3	19.9	46.0

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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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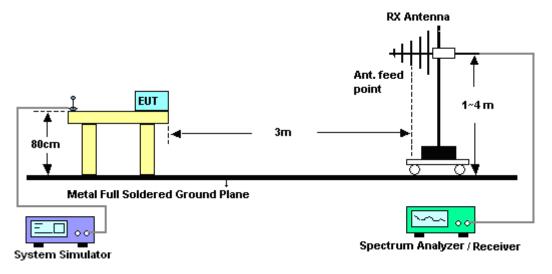
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3.2.3. Test Procedures

- 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.
- The table was rotated 360 degrees to determine the position of the highest radiation. 3.
- 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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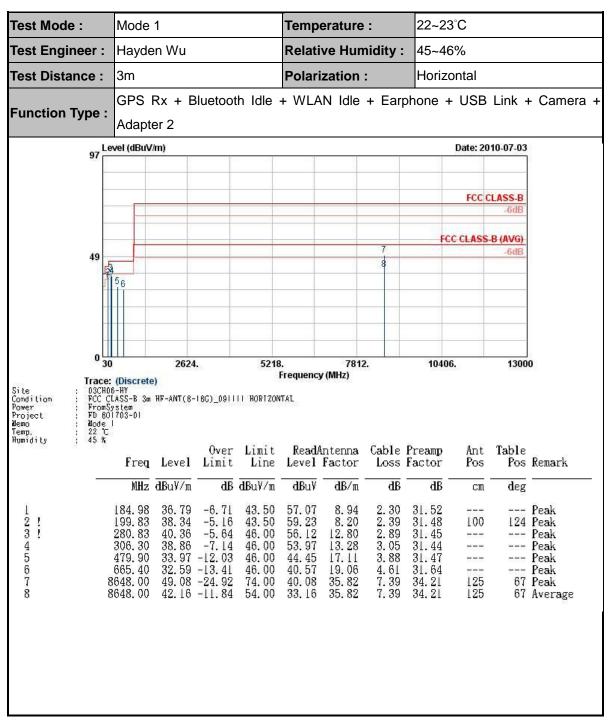
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3.2.5. Test Result of Radiated Emission



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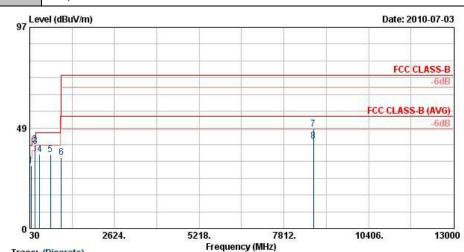


Test Mode: Mode 1 Temperature: 22~23°C

Test Engineer: Hayden Wu Relative Humidity: 45~46%

Test Distance: 3m Polarization: Vertical

Function Type: Adapter 2



| Site | 103CH06-HY | Condition | FCC CLASS-B 3m HF-ANT(8-18G)_09|||| VERTICAL | Power | FromSystem | FromSys

	a 14 1	Freq	Level	Over Limit			Antenna Factor	215	Preamp Factor	Ant Pos	Table Pos	Remark
	-	MHz	dBuV/m	dB	$\overline{\mathrm{d} B}\mathrm{u} V/\mathrm{m}$	dB u∛	dB/π	dB	dB	cm	deg	
1		71.04	30.42	-9.58	40.00	54.00	6.66	1.33	31.57	100	100	QP
2 @ 3 !		182.28	40.31	-3.19	43.50	60.47	9.09	2.27	31.52	165	234	Peak
3 !		193.08	39.73	-3.77	43.50	60.32	8.55	2.36	31.49			Peak
4		336.40	35.79	-10.21	46.00	49.86	14.05	3.22	31.35			Peak
5		663.30	35.68	-10.32	46.00	43.66	19.05	4.60	31.64			Peak
6		994.40	34.40	-19.60	54.00	37.88	21.12	5.71	30.31			Peak
7		8718.00	47.87	-26.13	74.00	38.80	35.87	7.48	34.27	121	265	Peak
8		8718.00	42.23	-11.77	54.00	33.16	35.87	7.48	34.27	121	265	Average

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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, 2010	Apr. 27, 2011	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	SCHWARZBE CK	BBHA 9170	BBHA917025 1	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. 15, 2010	Apr. 14, 2011	Radiation (03CH06-HY)

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5. Uncertainty of Evaluation

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

	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	0.28	
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	nty of X _i				
Contribution	dB	dB Probability Distribution		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 EP8O1703-01 as below.

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Appendix C. Original Report

Please refer to Sporton report number FC8O1703 as below.

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