

**FCC Test Report** 

APPLICANT : Option NV

**EQUIPMENT**: Pico GtEx 2H2L

BRAND NAME : GT Express 441

MODEL NAME : GE 0441

FCC ID : NCMOGE0441

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION**: Certification

The product sample received on Mar. 19, 2009 and completely tested on Mar. 26, 2009. 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

lac-MRA

Testing Laboratory
1190

Report No.: FD931930

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
FD931930	Rev. 01	Initial issue of report	May 07, 2009

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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	3.1 15.107 7.2.2	7.2.2	AC Conducted Emission		PASS	3.5 dB at
				< KSS-Gen lable 2 limits		0.606 MHz
				< 15.109 limits or		Under limit
3.2	15.109 7.2.3.2 F	Radiated Emission	< RSS-Gen table 1 limits	PASS	6.81 dB at	
				(Section 6)		255.99 MHz

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# 1. General Description

# 1.1 Applicant

#### **Option NV**

Gaston Geenslaan 14, 3001 Leuven, Belgium

## 1.2 Manufacturer

#### **Option NV**

Gaston Geenslaan 14, 3001 Leuven, Belgium

# 1.3 Feature of Equipment Under Test

Produ	Product Feature & Specification					
Equipment	Pico GtEx 2H2L					
Brand Name	GT Express 441					
Model Name	GE 0441					
FCC ID	NCMOGE0441					
Tx Frequency Range	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz WCDMA Band V : 824 MHz ~ 849 MHz WCDMA Band II : 1850 MHz ~ 1910 MHz					
Rx Frequency Range	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz WCDMA Band V : 869 MHz ~ 894 MHz WCDMA Band II : 1930 MHz ~ 1990 MHz					
Antenna Type	Retractable Antenna					
Antenna Connector Type	N/A					
HW Version	2.0					
SW Version	2.3.2.0					
Type of Modulation	GSM / GPRS : GMSK EDGE : 8PSK WCDMA : QPSK HSDPA : QPSK / 16QAM HSUPA : 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 <sup>st</sup> 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 No.		
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.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
3.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	i-pod	Apple	A1199	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).

Pre-scanned tests were conducted to determine the final configuration from all possible combinations.

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

		Test Co	ondition	
Item	EUT Configuration	EMI	EMI	
		AC	RE	
1	Operating Mode (EUT with notebook PC)	<b>~</b>	>	

#### Abbreviations:

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

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1: <b>GSM 850 Idle</b> Mode 2: GSM 1900 Idle  Mode 3: WCDMA Band V Idle  Mode 4: WCDMA Band II Idle
Radiated 1 Emissions		Mode 1: <b>GSM 850 Idle</b> Mode 2: GSM 1900 Idle  Mode 3: WCDMA Band V Idle  Mode 4: WCDMA Band II Idle

#### Remark:

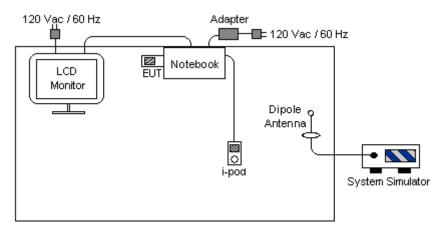
- 1. The worst case of AC is mode 1; only the test data of this mode was reported.
- **2.** The worst case of RE is mode 1; only the test data of this mode was reported.
- **3.** Because the WWAN function is disabled in the retracted mode, only the extended mode was tested.

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2.2 Connection Diagram of Test System



## 2.3 Test Software

The equipment under test (EUT) is performed in a chamber and is coupled to the system simulator which is located outside the chamber.

In GSM or WCDMA idle mode, the EUT is synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

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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

<sup>\*</sup>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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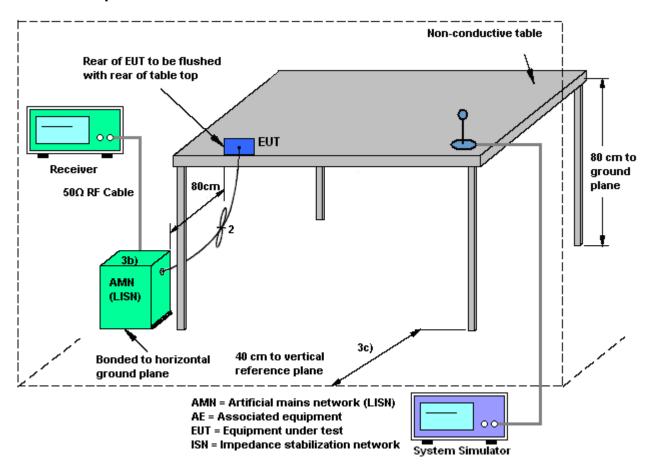
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## 3.1.4 Test Setup



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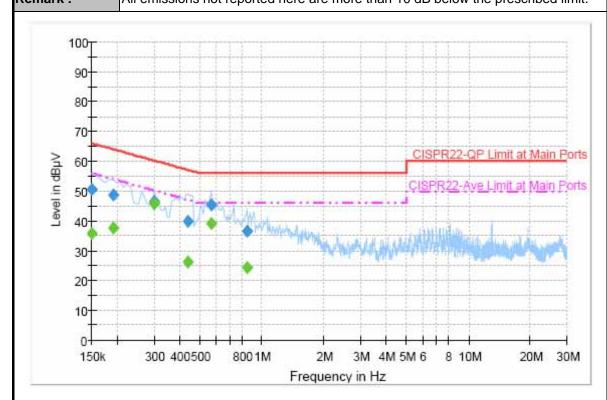


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#### 3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	23~24
Test Engineer :	Cona Huang	Relative Humidity :	42~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM 850 Idle		

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



## Final Result 1

Frequency	QuasiPeak	<b>F</b> :14	1 !	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.150000	50.4	Off	L1	19.4	15.6	66.0
0.190000	48.5	Off	L1	19.4	15.5	64.0
0.302000	46.5	Off	L1	19.3	13.7	60.2
0.438000	39.7	Off	L1	19.4	17.4	57.1
0.566000	45.4	Off	L1	19.3	10.6	56.0
0.846000	36.6	Off	L1	19.5	19.4	56.0

#### Final Result 2

Frequency	Average	F:lto:	Lina	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.150000	36.0	Off	L1	19.4	20.0	56.0
0.190000	37.5	Off	L1	19.4	16.5	54.0
0.302000	45.9	Off	L1	19.3	4.3	50.2
0.438000	26.2	Off	L1	19.4	20.9	47.1
0.566000	39.3	Off	L1	19.3	6.7	46.0
0.846000	24.2	Off	L1	19.5	21.8	46.0

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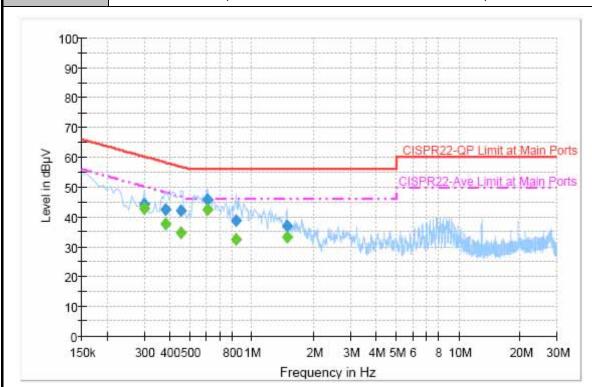
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Test Mode :Mode 1Temperature :23~24Test Engineer :Cona HuangRelative Humidity :42~43%Test Voltage :120Vac / 60HzPhase :Neutral

Function Type: GSM 850 Idle

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)
0.302000	44.3	Off	N	19.3	15.9	60.2
0.382000	42.4	Off	N	19.4	15.8	58.2
0.454000	42.2	Off	N	19.3	14.6	56.8
0.606000	45.7	Off	N	19.4	10.3	56.0
0.838000	38.7	Off	N	19.5	17.3	56.0
1.478000	36.7	Off	N	19.4	19.3	56.0

#### Final Result 2

Frequency	Average	Filton Line		Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.302000	42.7	Off	N	19.3	7.5	50.2
0.382000	37.7	Off	N	19.4	10.5	48.2
0.454000	34.5	Off	N	19.3	12.3	46.8
0.606000	42.5	Off	N	19.4	3.5	46.0
0.838000	32.4	Off	N	19.5	13.6	46.0
1.478000	33.3	Off	N	19.4	12.7	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.

#### 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

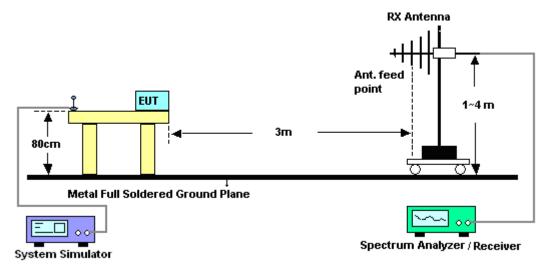
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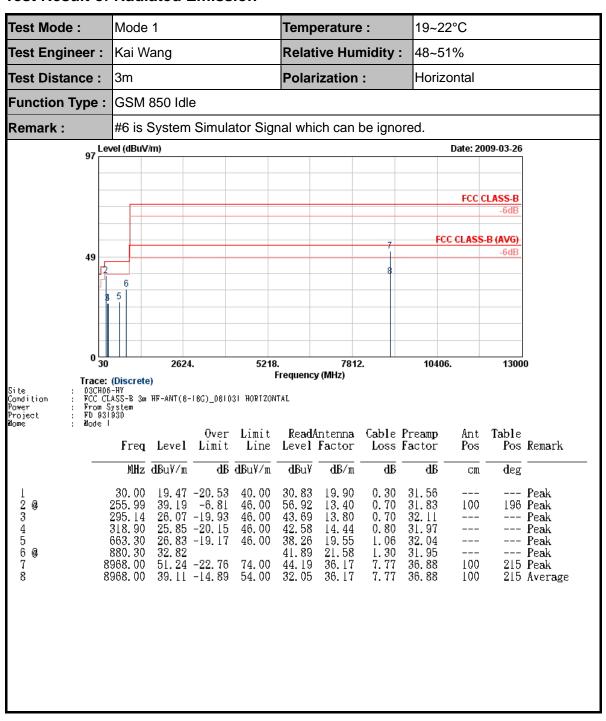
# 3.2.4 Test Setup of Radiated Emission



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3.2.5 Test Result of Radiated Emission

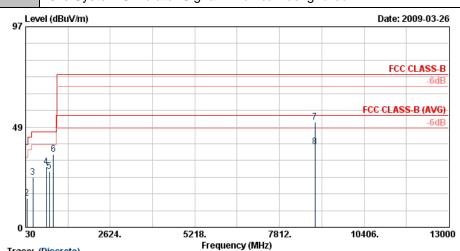


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19~22°C Test Mode: Mode 1 Temperature : Kai Wang 48~51% Test Engineer: **Relative Humidity:** Test Distance: 3m Polarization: Vertical GSM 850 Idle Function Type:

#6 is System Simulator Signal which can be ignored. Remark:



Site Condition Power Project Mome

Trace: (Discrete)
03CH06-HY
FCC CLASS-B 3m HF-ANT(8-18C)\_081031 VERTICAL
FD 931930

Mode I

	Freq	Level	Over Limit	Limit Line		ntenna Factor		Preamp Factor	Ant Pos	Table Pos Remark
	MHz	dBu∛/m	dB	dBuY∕m	<b>dB</b> u∛	<b>dB</b> /π	₫B	<u>dB</u>	cm	deg —
1	30.00	18.56	-21.44	40.00	29. 92	19.90	0.30	31.56		Peak
2	73. 74	14.23	-25.77	40.00	38.71	6.93	0.40	31.80		Peak
3	255. 99	24.00	-22.00	46.00	41.73	13.40	0.70	31.83		Peak
4	663.30	29. 15	-16.85	46.00	40.57	19.55	1.06	32.04	100	83 Peak
5	752. 90	27.07	-18.93	46.00	37.71	20.33	1.10	32.07		Peak
6 @	880.30	35.45			44.52	21.58	1.30	31.95		Peak
7	8894.00	50.96	-23.04	74.00	44.06	36.08	7.68	36.86	100	126 Peak
8	8894.00	39.06	-14.94	54.00	32.15	36.08	7.68	36.86	100	126 Average

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Receiver	R&S	ESCS 30	100356	9kHz~2.75GHz	Aug. 01, 2008	Jul. 31, 2009	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9kHz~30MHz	Nov. 26, 2008	Nov. 25, 2009	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9kHz~30MHz	Nov. 26, 2008	Nov. 25, 2009	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. 24, 2008	Oct. 23, 2009	Radiation (03CH06-HY)
Spectrum Analyzer	R&S	FSP40	100057	9kHz~40GHz	Oct. 16, 2008	Oct. 15, 2009	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz~1000M Hz	Apr. 24, 2008	Apr. 23, 2009	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz~2GHz	Nov. 12, 2008	Nov. 11, 2009	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1G~18GHz	Aug. 18, 2008	Aug. 17, 2009	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Training Research	AF-0801	95119	8G~18G	Oct. 28, 2008	Oct. 27, 2009	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBE CK	BBHA 9170	BBHA917025 1	15G - 40GHz	Oct. 16, 2008	Oct. 15, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G~26.5GHz	Nov. 11, 2008	Nov. 10, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	310N	186713	9kHz~1GHz	Apr. 21, 2008	Apr. 20, 2009	Radiation (03CH06-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	May 22, 2008	May 21, 2010	Radiation (03CH06-HY)
System Simulator	R&S	CMU200	116457	N/A	Jun. 04, 2008	Jun. 03, 2009	Radiation (03CH06-HY)

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# 5. Uncertainty of Evaluation

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

	Uncerta	$u(x_i)$		
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 Spec	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)

	Uncert	, ,		
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-shaped	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 $x_i$		Ci	$Ci*u(x_i)$
Contribution	dB	Probability Distribution	$u(x_i)$		
Receiver reading	±0.10	Normal(k=1)	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 Γ1= 0.197 Antenna VSWR Γ2= 0.194 Uncertainty=20log(1-Γ1*Γ2)	+0.34/-0.35	U-shaped	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 EP931930 as below.

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