



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2043-7  
**FCC ID** : IHDT56YN2  
**STANDARD** : 47 CFR Part 2, and 90(S)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 16, 2020 and completely tested on Mar. 06, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

*Jason Jia*

Reviewed by: Jason Jia / Supervisor

*James Huang*

Approved by: James Huang / Manager



**Sporton International (Kunshan) Inc.**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
3.2	§2.1053 §90.691	Field Strength of Spurious Radiation	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 50.11 dB at 2444.000 MHz

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Motorola
Model Name	XT2043-7
FCC ID	IHDT56YN2
EUT supports Radios application	GSM/WCDMA/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver and GNSS
IMEI Code	353580110009796/353580110009804
HW Version	DVT2
SW Version	QPR30.104
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.

## 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	814.7 ~ 823.3 MHz
Rx Frequency	859.7 ~ 868.3 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	22.95 dBm
Type of Modulation	QPSK / 16QAM/64QAM

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.



## 1.6 Re-use of Measured Data

### 1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2043-7, FCC ID: IHDT56YN2) is electrically identical to the reference device (Model: XT2043-4, XT2043-5, XT2043-6, FCC ID: IHDT56YN1) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

### 1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix D (Sporton RF Report No. FW9O0912 for the reference device Model: XT2043-4, XT2043-5, XT2043-6, FCC ID: IHDT56YN1).

### 1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
PCE (Band 26)	IHDT56YN1	Part90S (FW9O0912B)	All Conducted sections applicable

### 1.6.4 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: IHDT56YN1, the RSE and Conducted Power to re-test.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	IHDT56YN1 Worst Result	IHDT56YN2 Worst Result	Difference (dB)
Average Conducted Power (dBm)	LTE Band 26	23.00	22.95	0.05

## 1.7 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	SC-51
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	SC-52
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	SC-53
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	SC-55
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	SC-56
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	SC-51
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	SC-52
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	SC-56
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 3 (Chile)	Brand Name	Motorola(Salom)	Model Name	SC-52
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
AC Adapter 3(BR)	Brand Name	Motorola(Salom)	Model Name	SC-57
	Power Rating	I/P: 100-240 Vac, 600mA , O/P: 5/9/12Vdc, 3000/2000/1500mA		
Battery 1	Brand Name	Motorola (Amperex)	Model Name	KX50
	Power Rating	3.8Vdc, 4000mAh	Type	Li-ion
Battery 2	Brand Name	Motorola (SUNWODA)	Model Name	KX50
	Power Rating	3.8Vdc, 4000mAh	Type	Li-ion
USB Cable 1	Brand Name	Motorola (Luxshare)	Model Name	SC18C24368
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	SC18C24367
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		



### 1.8 Maximum Conducted Power, Frequency Tolerance and Emission Designator

FCC Rule	System	Type of Modulation	BW	Frequency Tolerance (ppm)	Emission Designator	Maximum Conducted power(W)
Part 90S	LTE Band 26	QPSK	1.4 MHz	-	-	0.1972
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	-	0.1683
Part 90S	LTE Band 26	64QAM	1.4 MHz	-	-	0.1337
Part 90S	LTE Band 26	QPSK	3 MHz	-	-	0.1959
Part 90S	LTE Band 26	16QAM	3 MHz	-	-	0.1698
Part 90S	LTE Band 26	64QAM	3 MHz	-	-	0.1343
Part 90S	LTE Band 26	QPSK	5 MHz	-	-	0.1959
Part 90S	LTE Band 26	16QAM	5 MHz	-	-	0.1683
Part 90S	LTE Band 26	64QAM	5 MHz	-	-	0.1346
Part 90S	LTE Band 26	QPSK	10 MHz	-	-	0.1963
Part 90S	LTE Band 26	16QAM	10 MHz	-	-	0.1698
Part 90S	LTE Band 26	64QAM	10 MHz	-	-	0.1346
Part 90S	LTE Band 26	QPSK	15 MHz	-	-	0.1968
Part 90S	LTE Band 26	16QAM	15 MHz	-	-	0.1675
Part 90S	LTE Band 26	64QAM	15 MHz	-	-	0.1343



### 1.9 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH06-KS	CN1257	314309

### 1.10 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al

### 1.11 Applied Standards

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

- ♦ 47 CFR Part 2, 90(S)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

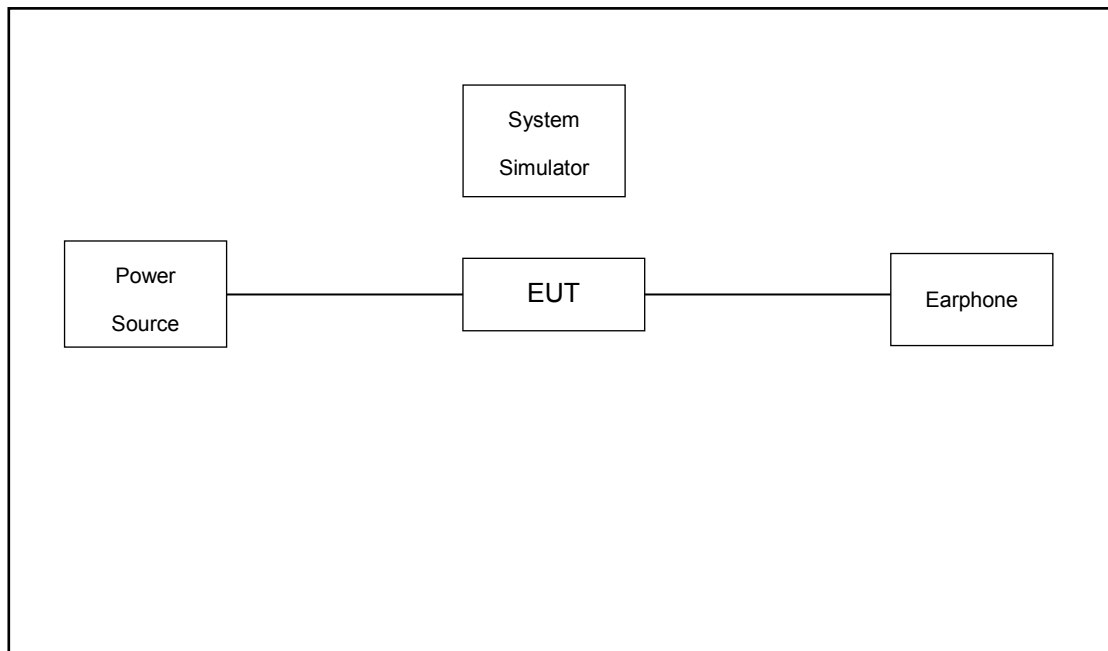
### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v
Radiated Spurious Emission	26	Worst Case												v	
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "- " means that this bandwidth is not supported. 3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.														

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	MOTO	N/A	N/A	Unshielded, 1.2m	N/A

## 2.4 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26765	-	-
	Frequency	821.5	-	-
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3



### 3 Test Result

#### 3.1 Conducted Output Power Measurement

##### 3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

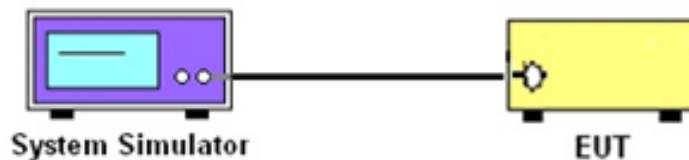
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.



## 3.2 Field Strength of Spurious Radiation Measurement

### 3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log_{10}(P[\text{Watts}])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.2.2 Measuring Instruments

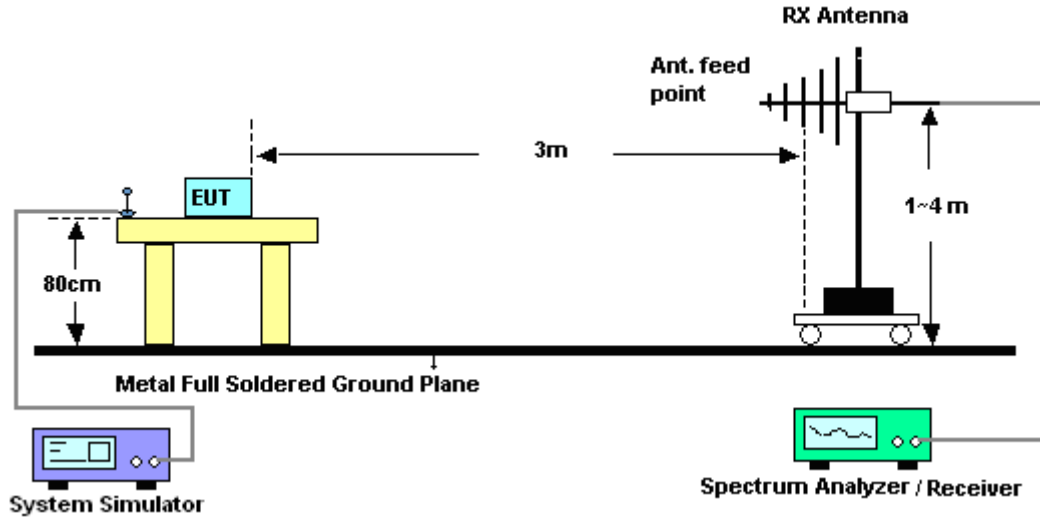
The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

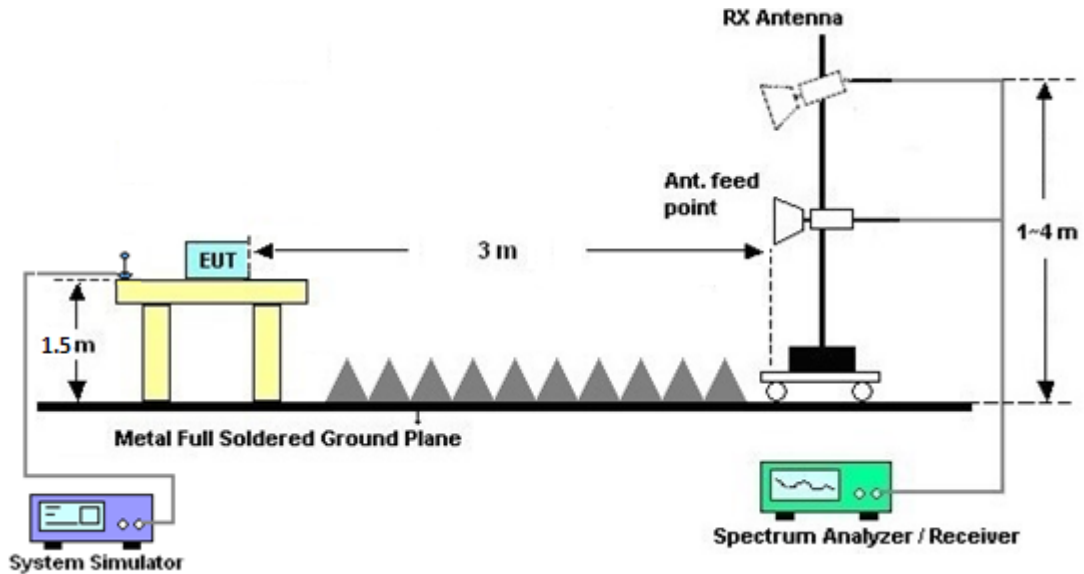
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10 \log(P)$  dB below the transmitter power P(Watts)

### 3.2.4 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



### 3.2.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 16, 2019	Mar. 06, 2020	Apr. 15, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 30, 2019	Mar. 06, 2020	May 29, 2020	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 27, 2019	Mar. 06, 2020	Apr. 26, 2020	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Mar. 06, 2020	Nov. 09, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Mar. 06, 2020	Aug. 05, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Mar. 06, 2020	Jan. 07, 2021	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17, 2019	Mar. 06, 2020	Apr. 16, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2019	Mar. 06, 2020	Apr. 14, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 06, 2020	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 06, 2020	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 06, 2020	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



## 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.1dB
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### Appendix A. Test Results of Conducted Test

#### Conducted Output Power (Average power)

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.94	-	-
15	1	37		22.87		
15	1	74		22.90		
15	36	0		21.99		
15	36	20		22.07		
15	36	39		21.96		
15	75	0		22.01		
15	1	0	16-QAM	22.24		
15	1	37		22.22		
15	1	74		22.19		
15	36	0		21.02		
15	36	20		21.16		
15	36	39		21.09		
15	75	0		21.12		
15	1	0	64-QAM	21.28		
15	1	37		21.23		
15	1	74		21.22		
15	36	0		20.15		
15	36	20		20.28		
15	36	39		20.19		
15	75	0		20.25		



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.88	
10	1	25			22.93	
10	1	49			22.87	
10	25	0			22.06	
10	25	12			22.04	
10	25	25			21.98	
10	50	0			22.01	
10	1	0	16-QAM		22.21	
10	1	25			22.30	
10	1	49			22.26	
10	25	0			21.11	
10	25	12			21.10	
10	25	25			21.09	
10	50	0			21.11	
10	1	0	64-QAM		21.19	
10	1	25			21.29	
10	1	49			21.26	
10	25	0			20.24	
10	25	12			20.23	
10	25	25			20.22	
10	50	0			20.23	



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.88	22.89	22.78
5	1	12		22.92	22.92	22.70
5	1	24		22.89	22.92	22.69
5	12	0		21.98	21.99	21.82
5	12	7		22.01	22.03	21.82
5	12	13		21.94	22.00	21.76
5	25	0		21.99	21.99	21.78
5	1	0	16-QAM	22.22	22.23	22.09
5	1	12		22.23	22.26	22.05
5	1	24		22.20	22.25	21.97
5	12	0		21.08	21.12	20.96
5	12	7		21.09	21.13	20.95
5	12	13		21.04	21.07	20.88
5	25	0		21.05	21.10	20.90
5	1	0	64-QAM	21.29	21.29	21.15
5	1	12		21.23	21.29	21.09
5	1	24		21.23	21.25	21.03
5	12	0		20.15	20.24	20.07
5	12	7		20.20	20.21	20.05
5	12	13		20.15	20.18	20.00
5	25	0		20.18	20.20	20.03



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.88	22.92	22.73
3	1	8		22.90	22.91	22.67
3	1	14		22.91	22.89	22.68
3	8	0		21.96	22.02	21.75
3	8	4		21.96	22.02	21.79
3	8	7		21.97	22.00	21.71
3	15	0		21.99	22.00	21.77
3	1	0	16-QAM	22.22	22.27	22.09
3	1	8		22.23	22.30	22.08
3	1	14		22.22	22.25	21.98
3	8	0		21.10	21.11	20.91
3	8	4		21.14	21.15	20.98
3	8	7		21.07	21.12	20.91
3	15	0		21.07	21.09	20.89
3	1	0	64-QAM	21.24	21.27	21.09
3	1	8		21.21	21.25	21.10
3	1	14		21.23	21.28	21.01
3	8	0		20.15	20.18	20.01
3	8	4		20.19	20.23	20.06
3	8	7		20.14	20.21	19.97
3	15	0		20.17	20.19	19.99



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.90	22.86	22.64
1.4	1	3		22.87	22.92	22.68
1.4	1	5		22.86	22.85	22.62
1.4	3	0		22.94	22.90	22.67
1.4	3	1		22.95	22.89	22.72
1.4	3	3		22.89	22.90	22.67
1.4	6	0		21.96	21.92	21.70
1.4	1	0	16-QAM	22.17	22.17	21.98
1.4	1	3		22.24	22.26	22.03
1.4	1	5		22.15	22.15	21.93
1.4	3	0		21.99	21.97	21.76
1.4	3	1		22.03	22.03	21.80
1.4	3	3		21.98	21.99	21.73
1.4	6	0		21.10	21.11	20.88
1.4	1	0	64-QAM	21.17	21.18	20.97
1.4	1	3		21.26	21.24	21.02
1.4	1	5		21.16	21.16	20.91
1.4	3	0		21.15	21.14	20.92
1.4	3	1		21.20	21.23	20.94
1.4	3	3		21.13	21.14	20.87
1.4	6	0		20.14	20.15	19.91



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

LTE Band 26 / 10MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1630	-67.78	-13	-54.78	-74.75	1.58	10.70	H
	2444	-63.49	-13	-50.49	-71.74	2.102	12.50	H
	3258	-63.58	-13	-50.58	-72.47	2.856	13.90	H
	1630	-67.97	-13	-54.97	-74.94	1.58	10.70	V
	2444	-63.11	-13	-50.11	-71.36	2.10	12.50	V
	3258	-63.30	-13	-50.30	-72.19	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



## **Appendix D. Reference Report**

Please refer to Sporton report number FW9O0912B which is issued separately.