



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2075-1  
**FCC ID** : IHDT56ZC1  
**STANDARD** : 47 CFR Part 2, 22, 24, 27  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 27, 2020 and completely tested on Jul. 13, 2020. We, Sporton International (ShenZhen) 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 (ShenZhen) 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**



TABLE OF CONTENTS

REVISION HISTORY...3
SUMMARY OF TEST RESULT...4
1 GENERAL DESCRIPTION...5
1.1 Applicant...5
1.2 Manufacturer...5
1.3 Product Feature of Equipment Under Test...5
1.4 Product Specification of Equipment Under Test...6
1.5 Modification of EUT...6
1.6 Re-use of Measured Data...7
1.7 Testing Location...8
1.8 Test Software...8
1.9 Applicable Standards...8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST...9
2.1 Test Mode...9
2.2 Connection Diagram of Test System...9
2.3 Support Unit used in test configuration and system...10
2.4 Frequency List of Low/Middle/High Channels...11
3 RADIATED TEST ITEMS...12
3.1 Measuring Instruments...12
3.2 Test Setup...12
3.3 Test Result of Radiated Test...12
3.4 Radiated Spurious Emission...13
4 LIST OF MEASURING EQUIPMENT...14
5 UNCERTAINTY OF EVALUATION...15
APPENDIX A. TEST RESULTS OF RADIATED TEST
APPENDIX B. TEST SETUP PHOTOGRAPHS
APPENDIX C. REFERENCE REPORT





### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1053 §22.917(a) §24.238(a) §27.53(g)	Radiated Spurious Emission (5G NR n2) (5G NR n5) (5G NR n66)	$< 43 + 10 \log_{10}(P[\text{Watts}])$	PASS	Under limit 30.79 dB at 2504.00 MHz



# 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 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2075-1
FCC ID	IHDT56ZC1
EUT supports Radios application	GSM/WCDMA/LTE/5G NR 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/GNSS/NFC
IMEI Code	Radiation : 353614110011641
HW Version	DVT2
SW Version	QPN30.37
EUT Stage	Identical Prototype

**Remark:**

1. Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.
2. 5G NR supports NSA mode, not support SA mode, all NSA mode refer to Product Specification.



### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz
<b>Rx Frequency</b>	5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n66: 2112.5 MHz~ 2197.5 MHz
<b>Bandwidth</b>	n2, n5, n66: 5MHz / 10MHz / 15MHz / 20MHz
<b>SCS</b>	n2, n5, n66: 15KHz
<b>Antenna Gain</b>	n2 / n66 : -2.00 dBi n5 : -3.00 dBi
<b>Type of Modulation</b>	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

### 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: XT2075-1, FCC ID: IHDT56ZC1) is electrically identical to the reference device (Model: XT2075-2, FCC ID: IHDT56ZC2) 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 C (Sporton RF Report No. FG051103-02G for the reference device Model: XT2075-2, FCC ID: IHDT56ZC2).

### 1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Report Number	Report Title/Section
PCE (5G NR)	IHDT56ZC2	Part22, 24, 27 (Report No. FG051103-02G)	All Conducted sections applicable (except RSE retest)

### 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: IHDT56ZC2.

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	IHDT56ZC2 Worst Result	IHDT56ZC1 Worst Result	Difference (dB)
Average Conducted Power (dBm)	5G NR n2	23.69	23.54	0.15
	5G NR n5	24.70	23.88	-0.82
	5G NR n66	23.80	23.71	-0.09



### 1.7 Testing Location

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>
	03CH04-KS	CN1257	314309

### 1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

### 1.9 Applicable Standards

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

- 47 CFR Part 2, 22, 24, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

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






## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

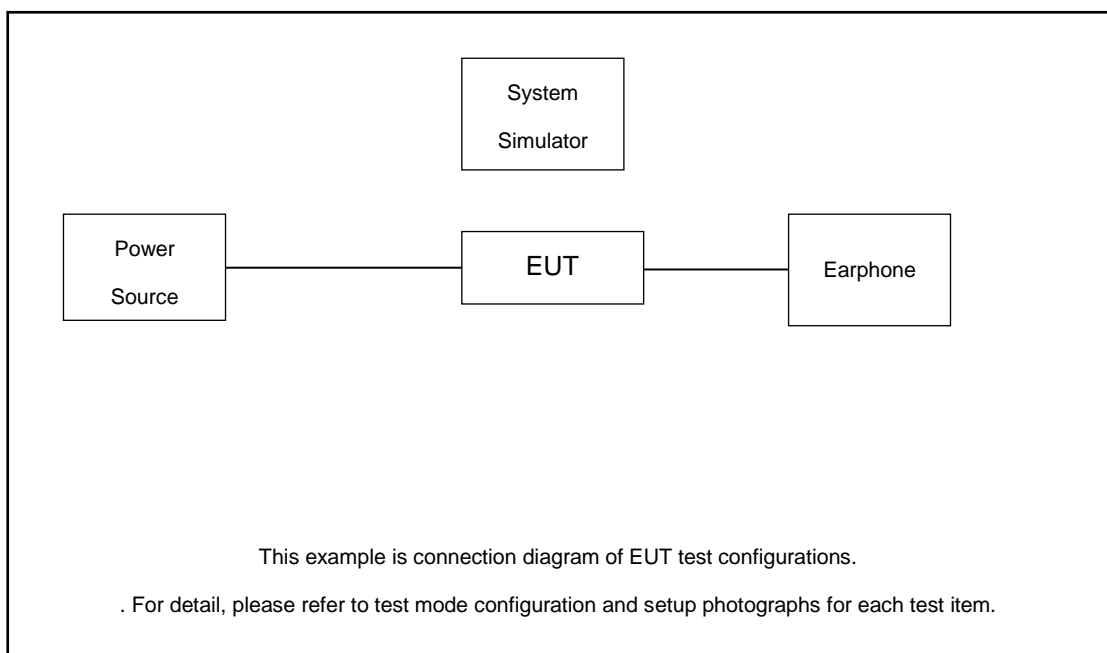
Antenna port radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

### 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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Keysight	E7515B	N/A	N/A	Unshielded, 1.8 m
3.	Fixture	INTEL	NGFF Card Carrier	N/A	N/A	N/A
4.	Earphone	N/A	N/A	N/A	N/A	N/A



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

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

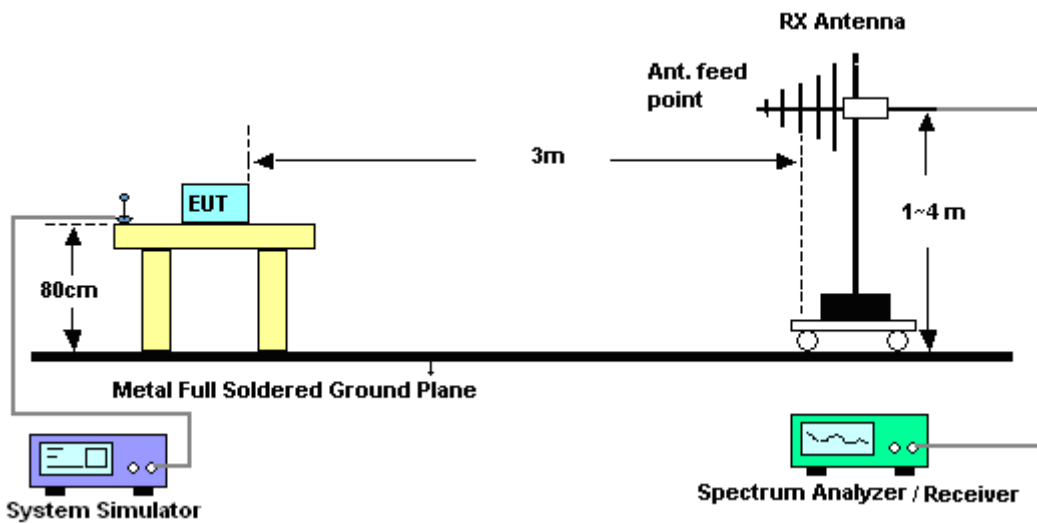
### 3 Radiated Test Items

#### 3.1 Measuring Instruments

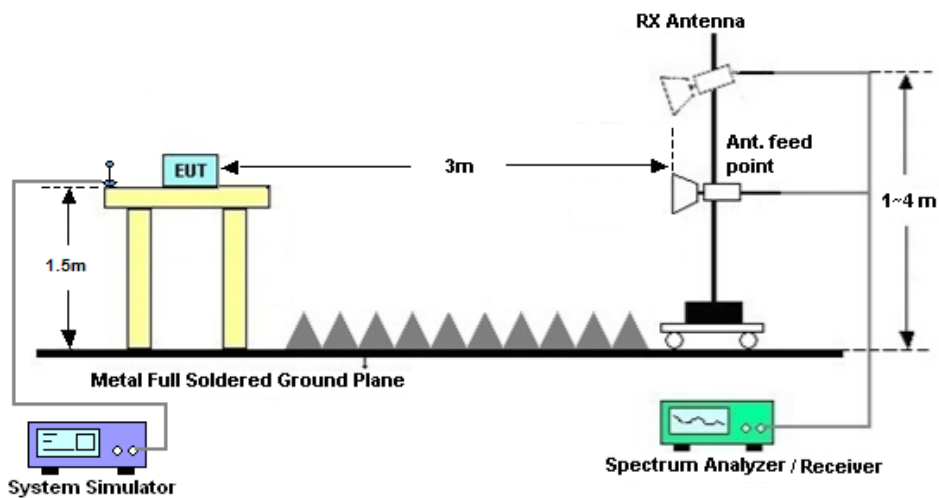
See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 For radiated test from 30MHz to 1GHz



##### 3.2.2 For radiated test above 1GHz



#### 3.3 Test Result of Radiated Test

Please refer to Appendix B.



## 3.4 Radiated Spurious Emission

### 3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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  $43 + 10 \log (P)$  dB.

For 5G NR n41

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  $55 + 10 \log (P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10\log(P)] \text{ (dB)}$   
=  $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
= -13dBm.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Jul. 13, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 08, 2020	Jul. 13, 2020	Jun. 07, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Jul. 13, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jul. 13, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2019	Jul. 13, 2020	Aug. 05, 2020	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Jul. 13, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Aug. 16, 2019	Jul. 13, 2020	Aug. 15, 2020	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Jul. 13, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 13, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 13, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 13, 2020	NCR	Radiation (03CH04-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))	3.3dB
---	-------

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
---	-------

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
---	-------



# Appendix A. Test Results of Radiated Test

## Radiated Spurious Emission

EN-DC_5A_n2A / LTE 10MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-57.79	-13	-44.79	-70.05	2.64	14.90	H
	5553.27	-54.06	-13	-41.06	-65.92	2.94	14.80	H
	7404.36	-49.29	-13	-36.29	-59.06	3.39	13.16	H
	3702.18	-57.88	-13	-44.88	-70.14	2.64	14.90	V
	5553.27	-53.86	-13	-40.86	-65.72	2.94	14.80	V
	7404.36	-49.03	-13	-36.03	-58.80	3.39	13.16	V
Middle	3742	-57.25	-13	-44.25	-69.51	2.64	14.90	H
	5613	-52.61	-13	-39.61	-64.47	2.94	14.80	H
	7484	-48.80	-13	-35.80	-58.57	3.39	13.16	H
	3742.18	-57.35	-13	-44.35	-69.61	2.64	14.90	V
	5613.27	-53.51	-13	-40.51	-65.37	2.94	14.80	V
	7484.36	-48.62	-13	-35.62	-58.39	3.39	13.16	V
Highest	3782.18	-57.38	-13	-44.38	-69.64	2.64	14.90	H
	5673.27	-53.81	-13	-40.81	-65.67	2.94	14.80	H
	7564	-48.47	-13	-35.47	-58.24	3.39	13.16	H
	3782	-57.49	-13	-44.49	-69.75	2.64	14.90	V
	5673.27	-53.73	-13	-40.73	-65.59	2.94	14.80	V
	7564.36	-48.01	-13	-35.01	-57.78	3.39	13.16	V

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

EN-DC_13A_n2A / LTE 10MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3782.18	-57.29	-13	-44.29	-69.55	2.64	14.90	H
	5673.27	-53.76	-13	-40.76	-65.62	2.94	14.80	H
	7564.36	-48.92	-13	-35.92	-58.69	3.39	13.16	H
	3782.18	-57.48	-13	-44.48	-69.74	2.64	14.90	V
	5673.27	-53.82	-13	-40.82	-65.68	2.94	14.80	V
	7564.36	-48.42	-13	-35.42	-58.19	3.39	13.16	V

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





EN-DC_66A_n2A / LTE 20MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3782.18	-56.41	-13	-43.41	-68.67	2.64	14.90	H
	5673.27	-53.75	-13	-40.75	-65.61	2.94	14.80	H
	7564.36	-48.79	-13	-35.79	-58.56	3.39	13.16	H
	3782.18	-57.45	-13	-44.45	-69.71	2.64	14.90	V
	5673.27	-53.93	-13	-40.93	-65.79	2.94	14.80	V
	7564.36	-48.37	-13	-35.37	-58.14	3.39	13.16	V

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

EN-DC_5A_n2A / LTE 10MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3782.18	-56.26	-13	-43.26	-68.52	2.64	14.90	H
	5673.27	-53.70	-13	-40.70	-65.56	2.94	14.80	H
	7564.36	-48.69	-13	-35.69	-58.46	3.39	13.16	H
	3782.18	-57.53	-13	-44.53	-69.79	2.64	14.90	V
	5673.27	-53.76	-13	-40.76	-65.62	2.94	14.80	V
	7564.36	-48.62	-13	-35.62	-58.39	3.39	13.16	V

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



EN-DC_66A_n5A / LTE 20MHz + NR 5MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-67.12	-13	-54.12	-74.09	1.58	10.70	H
	2474	-64.87	-13	-51.87	-73.12	2.102	12.50	H
	3297	-60.09	-13	-47.09	-68.98	2.856	13.90	H
	1648	-67.28	-13	-54.28	-74.25	1.58	10.70	V
	2474	-64.30	-13	-51.30	-72.55	2.10	12.50	V
	3297	-60.75	-13	-47.75	-69.64	2.86	13.90	V
Middle	1668	-66.96	-13	-53.96	-73.93	1.58	10.70	H
	2504	-64.63	-13	-51.63	-72.88	2.102	12.50	H
	3336	-60.38	-13	-47.38	-69.27	2.856	13.90	H
	1668	-66.73	-13	-53.73	-73.70	1.58	10.70	V
	2504	-57.58	-13	-44.58	-65.83	2.10	12.50	V
	3336	-60.16	-13	-47.16	-69.05	2.86	13.90	V
Highest	1688	-67.30	-13	-54.30	-74.27	1.58	10.70	H
	2534	-64.95	-13	-51.95	-73.20	2.102	12.50	H
	3378	-60.66	-13	-47.66	-69.55	2.856	13.90	H
	1688	-67.17	-13	-54.17	-74.14	1.58	10.70	V
	2534	-64.53	-13	-51.53	-72.78	2.10	12.50	V
	3378	-60.67	-13	-47.67	-69.56	2.86	13.90	V

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

EN-DC_2A_n5A / LTE 20MHz + NR 5MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1668	-59.00	-13	-46.00	-65.97	1.58	10.70	H
	2504	-52.18	-13	-39.18	-60.43	2.102	12.50	H
	3337.36	-60.28	-13	-47.28	-69.17	2.856	13.90	H
	1668	-61.36	-13	-48.36	-68.33	1.58	10.70	V
	2504	-43.79	-13	-30.79	-52.04	2.10	12.50	V
	3337.36	-60.55	-13	-47.55	-69.44	2.86	13.90	V

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



EN-DC_66A_n5A / LTE 20MHz + NR 5MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1668.68	-64.74	-13	-51.74	-71.71	1.58	10.70	H
	2504	-62.25	-13	-49.25	-70.50	2.102	12.50	H
	3337.37	-61.08	-13	-48.08	-69.97	2.856	13.90	H
	1668	-64.55	-13	-51.55	-71.52	1.58	10.70	V
	2504	-62.47	-13	-49.47	-70.72	2.10	12.50	V
	3337.36	-60.63	-13	-47.63	-69.52	2.86	13.90	V

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

EN-DC_2A_n5A / LTE 20MHz + NR 5MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1668	-61.03	-13	-48.03	-68.00	1.58	10.70	H
	2504	-54.58	-13	-41.58	-62.83	2.102	12.50	H
	3337.36	-61.25	-13	-48.25	-70.14	2.856	13.90	H
	1668	-61.83	-13	-48.83	-68.80	1.58	10.70	V
	2504	-44.81	-13	-31.81	-53.06	2.10	12.50	V
	3337.36	-61.24	-13	-48.24	-70.13	2.86	13.90	V

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



EN-DC_13A_n66A / LTE 10MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3423	-60.31	-13	-47.31	-71.05	2.604	13.34	H
	5133	-54.13	-13	-41.13	-64.64	3.011	13.52	H
	6840	-50.64	-13	-37.64	-60.84	3.271	13.47	H
	3423	-60.26	-13	-47.26	-71.00	2.604	13.34	V
	5133	-53.86	-13	-40.86	-64.37	3.011	13.52	V
	6840	-50.20	-13	-37.20	-60.40	3.271	13.47	V
Middle	3471	-59.92	-13	-46.92	-70.66	2.604	13.34	H
	5208	-54.12	-13	-41.12	-64.63	3.011	13.52	H
	6948	-50.38	-13	-37.38	-60.58	3.271	13.47	H
	3471	-60.38	-13	-47.38	-71.12	2.604	13.34	V
	5208	-54.52	-13	-41.52	-65.03	3.011	13.52	V
	6948	-50.41	-13	-37.41	-60.61	3.271	13.47	V
Highest	3522	-60.03	-13	-47.03	-70.77	2.604	13.34	H
	5283	-54.77	-13	-41.77	-65.28	3.011	13.52	H
	7044	-49.36	-13	-36.36	-59.56	3.271	13.47	H
	3522	-60.32	-13	-47.32	-71.06	2.604	13.34	V
	5283	-55.08	-13	-42.08	-65.59	3.011	13.52	V
	7044	-49.57	-13	-36.57	-59.77	3.271	13.47	V

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

EN-DC_5A_n66A / LTE 20MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 Highest	3522	-60.33	-13	-47.33	-71.07	2.604	13.34	H
	5283	-55.04	-13	-42.04	-65.55	3.011	13.52	H
	7044	-49.92	-13	-36.92	-60.12	3.271	13.47	H
	3522	-60.24	-13	-47.24	-70.98	2.604	13.34	V
	5283	-55.03	-13	-42.03	-65.54	3.011	13.52	V
	7044	-49.47	-13	-36.47	-59.67	3.271	13.47	V

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



EN-DC_2A_n66A / LTE 20MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 Highest	3522	-59.99	-13	-46.99	-70.73	2.604	13.34	H
	5283	-54.80	-13	-41.80	-65.31	3.011	13.52	H
	7044	-49.81	-13	-36.81	-60.01	3.271	13.47	H
	3522	-60.05	-13	-47.05	-70.79	2.604	13.34	V
	5283	-54.84	-13	-41.84	-65.35	3.011	13.52	V
	7044	-49.46	-13	-36.46	-59.66	3.271	13.47	V

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

EN-DC_5A_n66A / LTE 10MHz + NR 20MHz / BPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 Highest	3522	-60.38	-13	-47.38	-71.12	2.604	13.34	H
	5283	-55.08	-13	-42.08	-65.59	3.011	13.52	H
	7044	-49.82	-13	-36.82	-60.02	3.271	13.47	H
	3522	-60.31	-13	-47.31	-71.05	2.604	13.34	V
	5283	-55.11	-13	-42.11	-65.62	3.011	13.52	V
	7044	-49.47	-13	-36.47	-59.67	3.271	13.47	V

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



## **Appendix C. Reference Report**

Please refer to Sporton report number FG051103-02G which is issued separately.