# **FCC RF Test Report**

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2453-1

FCC ID : IHDT56AR8

STANDARD : 47 CFR Part 2, Part 27 Subpart Q

**CLASSIFICATION**: PCS Licensed Transmitter Held to Ear (PCE)

TEST DATE(S) : Mar. 26, 2024 ~ Mar. 30, 2024

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FG422203-01B

Sporton International Inc. (Kunshan)

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

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 1 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

### **TABLE OF CONTENTS**

RE	VISIO	N HISTORY	3
SU	MMAR	Y OF TEST RESULT	4
1	GENE	RAL 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	5
	1.5	Modification of EUT	6
	1.6	Specification of Accessory	6
	1.7	Maximum EIRP Power and Emission Designator	7
	1.8	Testing Site	8
	1.9	Test Software	8
		Applied Standards	
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	9
	2.1	Test Mode	
	2.2	Connection Diagram of Test System	10
	2.3	Support Unit used in test configuration and system	11
	2.4	Measurement Results Explanation Example	11
	2.5	Frequency List of Low/Middle/High Channels	
3	CON	DUCTED TEST ITEMS	
	3.1	Measuring Instruments	13
	3.2	Test Setup	13
	3.3	Test Result of Conducted Test	13
	3.4	Conducted Output Power Measurement	
	3.5	Peak-to-Average Ratio	16
	3.6	EIRP	
	3.7	Occupied Bandwidth	
	3.8	Conducted Band Edge Measurement	
	3.9	Conducted Spurious Emission Measurement	
		Frequency Stability Measurement	
4	RADI	ATED TEST ITEMS	
	4.1	Measuring Instruments	
	4.2	Test Setup	
	4.3	Test Result of Radiated Test	
	4.4	Radiated Spurious Emission Measurement	
		OF MEASURING EQUIPMENT	
6		SUREMENT UNCERTAINTY	26
		X A. TEST RESULTS OF CONDUCTED TEST	
		X B. TEST RESULTS OF RADIATED TEST	
API	PENDI	X C. TEST SETUP PHOTOGRAPHS	

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 2 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

### **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG422203-01B	Rev. 01	Initial issue of report	Apr. 30, 2024

Sporton International Inc. (Kunshan)Page Number: 3 of 26TEL: +86-512-57900158Report Issued Date: Apr. 30, 2024FCC ID: IHDT56AR8Report Version: Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

#### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power		Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	_	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 46.27 dB at 13920.00 MHz

#### **Conformity Assessment Condition:**

- 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 4 of 26
Report Issued Date : Apr. 30, 2024

Report No.: FG422203-01B

Report Version : Rev. 01
Report Template No.: BU5-FGLTE27D Version 2.0

# 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	XT2453-1						
FCC ID	IHDT56AR8						
IMEL Code	Conducted: 354373470016752						
IMEI Code	Radiation: 354373470019434/354373470019442						
HW Version	DVT2						
SW Version	U3UC34.23						
EUT Stage	Identical Prototype						

# 1.4 Product Specification of Equipment Under Test

	Product Feature
Tx/Rx Frequency	LTE Band 42: 3450 MHz ~ 3550 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	Ant3: LTE Band 42: 23.78 dBm LTE CA_42C: 23.71 dBm Ant4: LTE Band 42: 23.15 dBm LTE CA_42C: 23.11 dBm Ant6: LTE Band 42: 22.93 dBm LTE CA_42C: 22.42 dBm Ant8: LTE Band 42: 22.95 dBm LTE CA_42C: 23.26 dBm
Antenna Gain	Ant3:LTE Band 42 : -5.59 dBi Ant4:LTE Band 42 : -2.16 dBi Ant6:LTE Band 42 : -3.14 dBi Ant8:LTE Band 42 : -3.23 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 5 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

**Note:** The maximum EIRP is calculated from max output power and max antenna gain, so only the maximum EIRP of Ant.4 for LTE Band 42/42C is shown in the report.

### 1.5 Modification of EUT

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

### 1.6 Specification of Accessory

Specification of Accessory										
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-331						
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-332						
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-335						
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-336						
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-337						
AC Adapter 1(PRC)	Brand Name	Motorola(Chenyang)	Model Name	MC-338						
AC Adapter 2(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-331						
AC Adapter 2(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-332						
AC Adapter 2(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-333						
AC Adapter 2(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-334						
AC Adapter 3(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-331						
AC Adapter 3(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-332						
AC Adapter 3(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-333						
AC Adapter 3(IN)	Brand Name	Motorola(Salcomp)	Model Name	MC-334						
AC Adapter 3(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-335						
AC Adapter 3(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-336						
AC Adapter 3(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-337						
AC Adapter 3(PRC)	Brand Name	Motorola(Salcomp)	Model Name	MC-338						
AC Adapter 3(CHILE)	Brand Name	Motorola(Salcomp)	Model Name	MC-339						
AC Adapter 3(KR)	Brand Name	Motorola(Salcomp)	Model Name	MC-330						
AC Adapter 4(IN)	Brand Name	Motorola(XIHI)	Model Name	MC-334						
AC Adapter 5(BR)	Brand Name	Motorola(Cliptech)	Model Name	MC-337						
Battery 1	Brand Name	Motorola(ATL)	Model Name	QR11						
Battery 2	Brand Name	Motorola(ATL)	Model Name	QR31						
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D22297						
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D22298						
Wireless Earphones	Brand Name	Motorola	Model Name	XT2441-1						

Sporton International Inc. (Kunshan)Page Number: 6 of 26TEL: +86-512-57900158Report Issued Date: Apr. 30, 2024FCC ID: IHDT56AR8Report Version: Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

# 1.7 Maximum EIRP Power and Emission Designator

Ľ	TE Band 42	QP	SK	16QAM/64QAM/256QAM				
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)			
5	3452.5 ~ 3547.5	0.1245	4M50G7D	0.0839	4M48W7D			
10	3455 ~ 3545	0.1247	9M01G7D	0.0845	9M03W7D			
15	3457.5 ~ 3542.5	0.1242	13M4G7D	0.0841	13M4W7D			
20	3460 ~ 3540	0.1256	17M8G7D	0.0849	17M8W7D			

LTE Band 42 CA	QF	PSK	16QAM/64Q <i>A</i>	AM/256QAM
BW (MHz)	Maximum Emission EIRP(W) Designator (99%OBW)		Maximum EIRP(W)	Emission Designator (99%OBW)
20MHz+20MHz	0.1245	37M7G7D	0.1014	37M6W7D
20MHz+15MHz	0.1189	32M9G7D	0.0959	32M9W7D
15MHz+20MHz	0.1227	32M9G7D	0.0991	32M9W7D
20MHz+10MHz	0.1183	27M9G7D	0.0959	28M0W7D
10MHz+20MHz	0.1216	28M1G7D	0.0982	28M1W7D
20MHz+5MHz	0.1151	23M2G7D	0.0879	23M4W7D
5MHz+20MHz	0.1211	23M3G7D	0.0982	23M0W7D

Note: All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.

 Sporton International Inc. (Kunshan)
 Page Number
 : 7 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

### 1.8 Testing Site

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

Test Firm	Sporton International Ir	Sporton International Inc. (Kunshan)									
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone										
Test Site Location	Jiangsu Province 215300 People's Republic of China										
	TEL: +86-512-57900158										
	Sporton Sito No	ECC Designation No.	FCC Test Firm								
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.								
	03CH04-KS TH01-KS	CN1257	314309								

#### 1.9 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS		FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-KS	AUDIX	E3	210616

### 1.10 Applied Standards

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

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

#### Remark:

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

Sporton International Inc. (Kunshan) Page Number : 8 of 26 TEL: +86-512-57900158 Report Issued Date: Apr. 30, 2024

FCC ID: IHDT56AR8 Report Version : Rev. 01

# 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

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

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Z Plane)

Into the maximum emission (2 hans)												
T1 0	Donal	Bandwidth (MHz)	Modulation	RB#	Test Channel							
Test Cases	Band	eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H							
Max. Output	LTE David 40	5M 40M 45M 00M	QPSK, 16QAM, 64QAM,	1RB, Partial RB,								
Power	LTE Band 42	5M, 10M, 15M, 20M	256QAM	Full RB	L, M, H							
Peak-to-Average	LTE David 40	0014	QPSK, 16QAM, 64QAM,	E. II DD								
Ratio	LTE Band 42	20M	256QAM	Full RB	М							
E.I.R.P	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H							
26dB and 99%	LTE Band 42	5M 40M 45M 90M	ODOK 400AM	Full RB	N4							
Bandwidth	LIE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM	Full RB	М							
Conducted Band	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM,	1RB, Full RB	1 11							
Edge	LTE Ballu 42	31VI, 101VI, 131VI, 201VI	256QAM	TRB, FUII RB	L, H							
Conducted	LTE Band 42	5M, 10M, 15M, 20M	QPSK	1RB	L, M, H							
Spurious Emission	LTE Ballu 42	31VI, 101VI, 131VI, 201VI	QF3N	IKB	∟, IVI, ⊓							
Frequency Stability	LTE Band 42	5M	QPSK	1RB	M,							
Radiated Spurious	LTE Band 42	Wo	M,									
Emission	LIE Dallu 42	VVO	IVI,									

#### Note

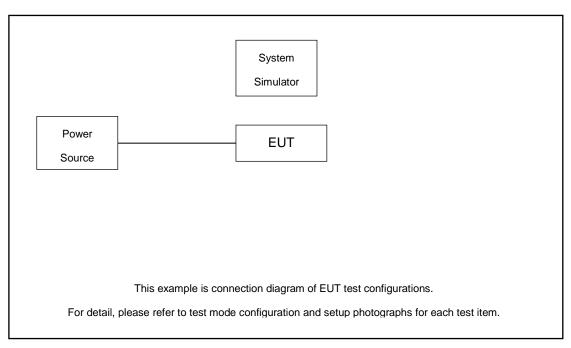
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

Sporton International Inc. (Kunshan)Page Number: 9 of 26TEL: +86-512-57900158Report Issued Date: Apr. 30, 2024FCC ID: IHDT56AR8Report Version: Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

Took Itoma	Dand		Bandwidth (MHz)							Modulation				RB#			Test Channel				
Test Items	Band	20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	н
Max. Output Power	42C_CA	v	v	٧	v	v	v	v	-	-	•	v	v	v	v	>			٧	>	v
26dB and 99% Bandwidth	42C_CA	v	v	>	v	v	v	v	-	-	•	v	v					>		>	
Conducted Band Edge	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	٧		v	٧		v
Conducted Spurious Emission	42C_CA	v	v	٧	v	v	v	v	-	-	•	v				>			٧	٧	v
E.I.R.P.	42C_CA	v	٧	v	v	٧	v	v	-	-	-	v	٧	v	<	٧			v	v	٧
Radiated Spurious Emission	42C_CA		Worst Case												٧						
Note	<ol> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> </ol>												der								

# 2.2 Connection Diagram of Test System



Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 10 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

### 2.3 Support Unit used in test configuration and system

ltem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

# 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.5 dB.

Example:

Offset(dB) = RF cable loss(dB).

= 6.5 (dB)

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

LTE Band 42 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
20	Channel	42190	42590	42990					
20	Frequency	3460	3500	3540					
4.5	Channel	42165	42590	43015					
15	Frequency	3457.5	3500	3542.5					
40	Channel	42140	42590	43040					
10	Frequency	3455	3500	3545					
E	Channel	42115	42590	43065					
5	Frequency	3452.5	3500	3547.5					

 Sporton International Inc. (Kunshan)
 Page Number
 : 11 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

LTE Band 42C_CA Channel and Frequency List									
BW [MHz]	Channel	//Frequency(MHz)	Lowest	Middle	Highest				
	PCC	Channel	42190	42590	42792				
20 + 20	1 700	Frequency	3460	3500	3520.2				
20 + 20	SCC	Channel	42388	42788	42990				
	SCC	Frequency	3479.8	3519.8	3540				
	PCC	Channel	42190	42590	42844				
20 - 15	PCC	Frequency	3460	3500	3525.4				
20 + 15	200	Channel	42361	42761	43015				
	SCC	Frequency	3477.1	3517.1	3542.5				
	D00	Channel	42165	42590	42819				
45 - 20	PCC	Frequency	3457.5	3500	3522.9				
15 + 20	200	Channel	42336	42761	42990				
	SCC	Frequency	3474.6	3517.1	3540				
	D00	Channel	42190	42590	42896				
20 . 40	PCC	Frequency	3460	3500	3530.6				
20 + 10	000	Channel	42334	42734	43040				
	SCC	Frequency	3474.4	3514.4	3545				
	DOC	Channel	42140	42590	42846				
10 . 20	PCC	Frequency	3455	3500	3525.6				
10 + 20	000	Channel	42284	42734	42990				
	SCC	Frequency	3469.4	3514.4	3540				
	DCC	Channel	42190	42590	42948				
20 . 5	PCC	Frequency	3460	3500	3535.8				
20 + 5	000	Channel	42307	42707	43065				
	SCC	Frequency	3471.7	3511.7	3547.5				
	DOG	Channel	42115	42590	42873				
F . 00	PCC	Frequency	3452.5	3500	3528.3				
5 + 20	800	Channel	42232	42707	42990				
	SCC								

3464.2

Frequency

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 12 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

3540

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Report No. : FG422203-01B

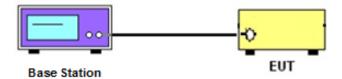
### 3 Conducted Test Items

### 3.1 Measuring Instruments

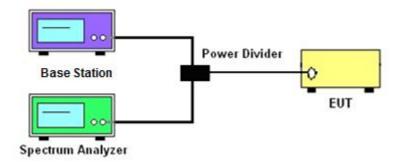
See list of measuring instruments of this test report.

### 3.2 Test Setup

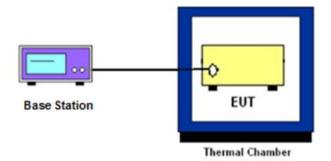
### 3.2.1 Conducted Output Power



# 3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



#### 3.2.3 Frequency Stability



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 13 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

### 3.4 Conducted Output Power Measurement

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

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

#### 3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

 Sporton International Inc. (Kunshan)
 Page Number
 : 14 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

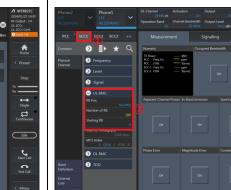
 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

#### 3.4.3 **Test Procedures for LTE ULCA**

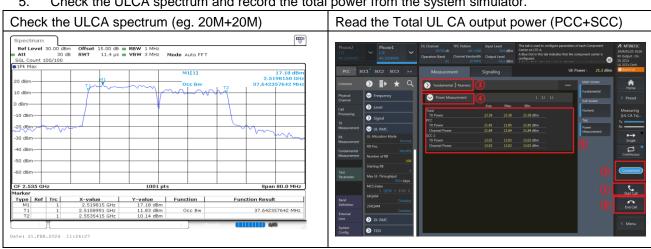
- 1. The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter PCC & SCC output ports were connected to the system simulator.
- Set EUT at maximum power, set the PCC/SCC CA band, channel, bandwidth and RB config.







- 4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
- Check the ULCA spectrum and record the total power from the system simulator.



Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8

Page Number : 15 of 26 Report Issued Date: Apr. 30, 2024 Report Version : Rev. 01

Report No.: FG422203-01B

### 3.5 Peak-to-Average Ratio

#### 3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### 3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 16 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

#### **3.6 EIRP**

#### 3.6.1 Description of EIRP Limit

#### § 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

#### 3.6.2 Test Procedures

- 1. According to KDB 412172 D01 Power Approach,
- 2. EIRP =  $P_T$  +  $G_T$   $L_C$ , ERP = EIRP -2.15, where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

 $L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

FCC ID : IHDT56AR8

Page Number : 17 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

### 3.7 Occupied Bandwidth

#### 3.7.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

#### 3.7.2 Test Procedures

- The testing follows ANSI C63.26 Section 5.4
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
   The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

### 3.8 Conducted Band Edge Measurement

#### 3.8.1 Description of Conducted Band Edge Measurement

#### § 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

#### 3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured.
- 4. Set RBW ≥ 1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
- 5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500KHz.
- 6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
- 7. Set spectrum analyzer with RMS detector.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. Checked that all the results comply with the emission limit line.

 TEL: +86-512-57900158
 Report Issued Date : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

: 19 of 26

Page Number

### 3.9 Conducted Spurious Emission Measurement

#### 3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed –13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.9.2 Test Procedures

- 6. The testing follows ANSI C63.26 section 5.7
- 7. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
   The path loss was compensated to the results for each measurement.
- 9. The middle channel for the highest RF power within the transmitting frequency was measured.
- 10. The conducted spurious emission for the whole frequency range was taken.
- 11. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 12. Set spectrum analyzer with RMS detector.
- 13. Taking the record of maximum spurious emission.
- 14. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 15. Checked that all the results comply with the emission limit line.

 Sporton International Inc. (Kunshan)
 Page Number
 : 20 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

### 3.10Frequency Stability Measurement

#### 3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

### 3.10.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.10.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5.
- 2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

 Sporton International Inc. (Kunshan)
 Page Number
 : 21 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

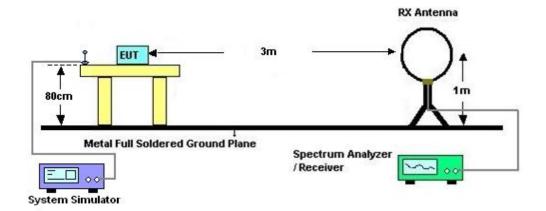
### 4 Radiated Test Items

### 4.1 Measuring Instruments

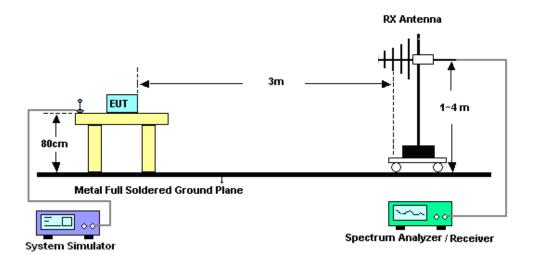
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test below 30MHz



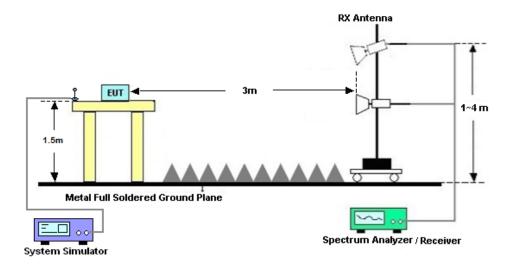
#### 4.2.2 For radiated test from 30MHz to 1GHz



TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 22 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

#### 4.2.3 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : 23 of 26
Report Issued Date : Apr. 30, 2024
Report Version : Rev. 01

Report No.: FG422203-01B

### 4.4 Radiated Spurious Emission Measurement

### 4.4.1 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 shall not exceed -13 dBm/MHz.

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

#### 4.4.2 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.
- 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.

```
EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain 
 <math>ERP (dBm) = EIRP - 2.15
```

10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

 Sporton International Inc. (Kunshan)
 Page Number
 : 24 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Mar. 26, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Mar. 26, 2024	NCR	Conducted (TH01-KS)
Temperature &h umidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Mar. 26, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Mar. 30, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Mar. 30, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Mar. 30, 2024	Apr. 08, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251694	1GHz~18GHz	Jul. 12, 2023	Mar. 30, 2024	Jul. 11, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	Mar. 30, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Mar. 30, 2024	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2024	Mar. 30, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Mar. 30, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Mar. 30, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 30, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 30, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 30, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

 Sporton International Inc. (Kunshan)
 Page Number
 : 25 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

### 6 Measurement Uncertainty

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 Conducted Measurement**

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 ppm

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

Measuring Uncertainty for a Level of	3.82dB
Confidence of 95% (U = 2Uc(y))	3.02UB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56dB
Oblinacióe of 35% (0 = 200(y))	

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

Measuring Uncertainty for a Level of	3.54dB
Confidence of 95% (U = 2Uc(y))	3.34ub

----- THE END -----

 Sporton International Inc. (Kunshan)
 Page Number
 : 26 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Apr. 30, 2024

 FCC ID: IHDT56AR8
 Report Version
 : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

# **Appendix A. Test Results of Conducted Test**

Test Engineer :	Smile Wong	Temperature :	22~23°C	
rest Engineer.	Smile Wang	Relative Humidity :	40~42%	

Report No.: FG422203-01B

# Conducted Output Power(Average power) and EIRP

#### LTE Band 42:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
	Cha	nnel		42190	42590	42990			
	Frequen	cy (MHz)		3460	3500	3540	L	M	Н
20	QPSK	1	0	23.14	23.15	23.07	0.1253	0.1256	0.1233
20	QPSK	1	99	22.83	22.85	22.76	0.1167	0.1172	0.1148
20	QPSK	100	0	21.97	22.06	22.00	0.0957	0.0977	0.0964
20	16QAM	1	0	21.44	21.45	21.35	0.0847	0.0849	0.0830
20	64QAM	1	0	20.16	20.21	20.11	0.0631	0.0638	0.0624
20	256QAM	1	0	17.35	17.41	17.32	0.0330	0.0335	0.0328
	Channel				42590	43015	EIRP(W)		
	Frequen	cy (MHz)		3457.5	3500	3542.5	L	M	Н
15	QPSK	1	0	23.05	23.10	22.98	0.1227	0.1242	0.1208
15	16QAM	1	0	21.40	21.41	21.29	0.0839	0.0841	0.0818
	Cha	nnel		42140	42590	43040	EIRP(W)		
	Frequen	cy (MHz)		3455	3500	3545	L	M	Н
10	QPSK	1	0	23.12	23.06	22.98	0.1247	0.1230	0.1208
10	16QAM	1	0	21.43	21.42	21.32	0.0845	0.0843	0.0824
	Channel				42590	43065		EIRP(W)	
Frequency (MHz)				3452.5	3500	3547.5	L	M	Н
5	QPSK	1	0	23.07	23.11	23.01	0.1233	0.1245	0.1216
5	16QAM	1	0	21.34	21.40	21.33	0.0828	0.0839	0.0826

#### LTE CA\_42C:

Combination 20MHz+20MHz (100RB+100RB)									
Channel	Modulation	P	СС	S	CC	Measured	FIDDAM		
Channel	Modulation	RB Size	RB offset	RB Size	RB offset	Power	EIRP(W)		
L	QPSK	1	Max	1	0	23.11	0.1245		
М	QPSK	1	Max	1	0	22.92	0.1191		
Н	QPSK	1	Max	1	0	22.76	0.1148		
L	16QAM	1	Max	1	0	22.22	0.1014		
М	16QAM	1	Max	1	0	22.02	0.0968		
Н	16QAM	1	Max	1	0	21.80	0.0920		
L	64QAM	1	Max	1	0	19.73	0.0571		
М	64QAM	1	Max	1	0	19.88	0.0592		
Н	64QAM	1	Max	1	0	19.59	0.0553		
L	256QAM	1	Max	1	0	17.92	0.0377		

Page Number

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8



M	256QAM	1	Max	1	0	18.05	0.0388					
Н	256QAM	1	Max	1	0	17.81	0.0367					
		Com	bination 20MHz+1	15MHz (100RB+7	5RB)							
Channel	Modulation	PC	CC	SC	CC	Measured	EIRP(W)					
Charmer	Modulation	RB Size	RB offset	RB Size	RB offset	Power	EIRP(VV)					
L	QPSK	1	Max	1	0	22.91	0.1189					
L	16QAM	1	Max	1	0	21.98	0.0959					
	Combination 15MHz+20MHz (100RB+75RB)											
Channel	Modulation	PC	CC	SC	CC	Measured	EIRP(W)					
Charmer	Modulation	RB Size	RB offset	RB Size	RB offset	Power	LIKF (VV)					
L	QPSK	1	Max	1	0	23.05	0.1227					
L	16QAM	1	Max	1	0	22.12	0.0991					
		Com	bination 20MHz+1	10MHz (100RB+5	0RB)							
Channel	Modulation	PC	CC	SC	CC	Measured Power	EIRP(W)					
Charmer	Modulation	RB Size	RB offset	RB Size	RB offset							
L	QPSK	1	Max	1	0	22.89	0.1183					
L	16QAM	1	Max	1	0	21.98	0.0959					
		Com	bination 10MHz+2	20MHz (50RB+10	0RB)							
Channel	Modulation	PC	CC	SC	CC	Measured	EIRP(W)					
Onarinci	Modulation	RB Size	RB offset	RB Size	RB offset	Power	Litti (VV)					
L	QPSK	1	Max	1	0	23.01	0.1216					
L	16QAM	1	Max	1	0	22.08	0.0982					
		Com	bination 20MHz+	5MHz (100RB+25	SRB)							
Channel	Modulation	PC	CC	scc		Measured	EIRP(W)					
Onarinci	Modulation	RB Size	RB offset	RB Size	RB offset	Power	Litti (VV)					
L	QPSK	1	Max	1	0	22.77	0.1151					
L	16QAM	1	Max	1	0	21.60	0.0879					
		Com	bination 5MHz+2	0MHz (25RB+100	DRB)							
Channel	Modulation	PC	CC	SCC		Measured	EIRP(W)					
- Gharinei	Woddiation	RB Size	RB offset	RB Size	RB offset	Power						
L	QPSK	1	Max	1	0	22.99	0.1211					
L	16QAM	1	Max	1	0	22.08	0.0982					

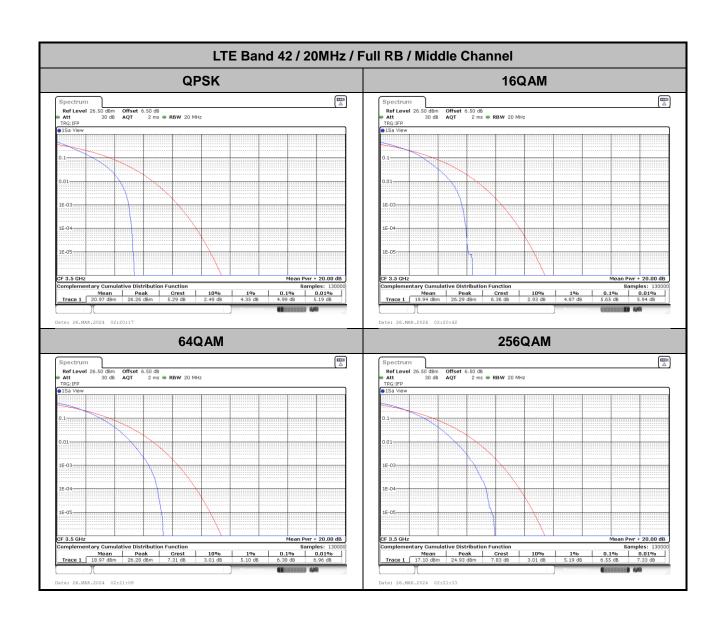
Report No. : FG422203-01B

TEL: +86-512-57900158 FCC ID: IHDT56AR8

### LTE Band 42

# Peak-to-Average Ratio

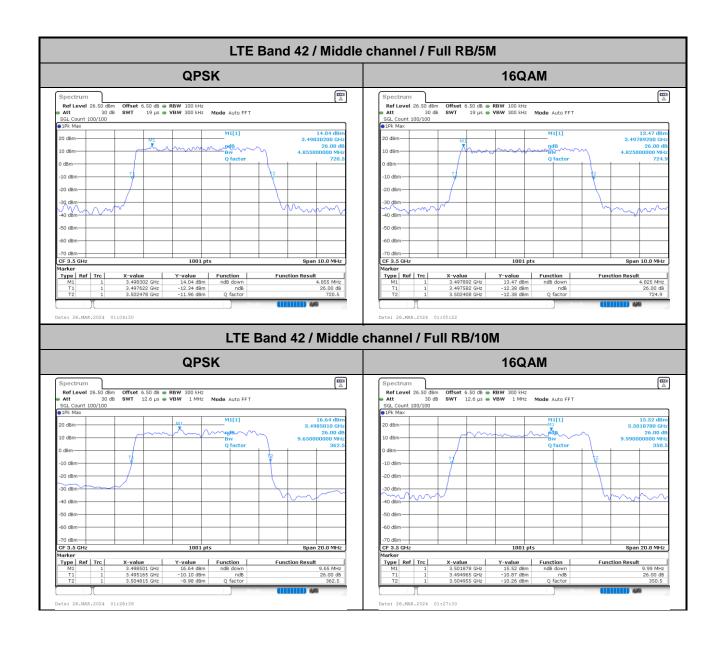
Mode					
Mod.	QPSK 16QAM		64QAM	256QAM	Limit: 13dB
RB Size		Result			
Middle CH	4.99	5.65	6.38	6.55	PASS



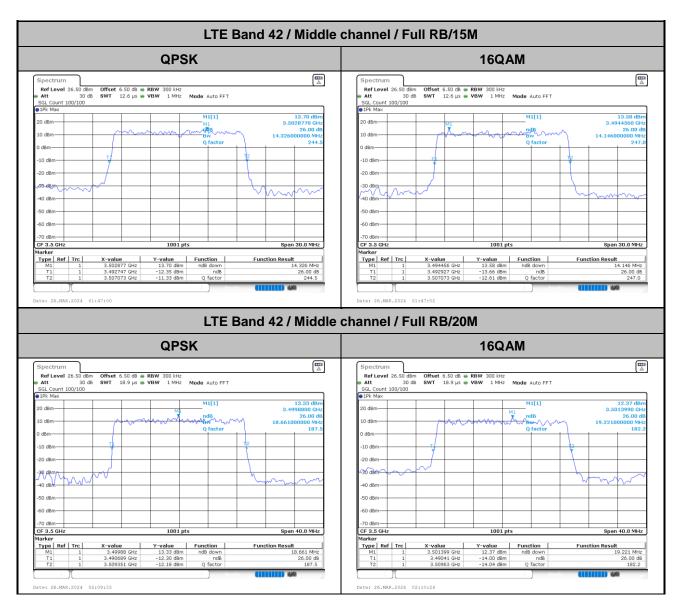
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# 26dB Bandwidth

Mode	LTE Band 42 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.86	4.83	9.65	9.99	14.33	14.15	18.66	19.22



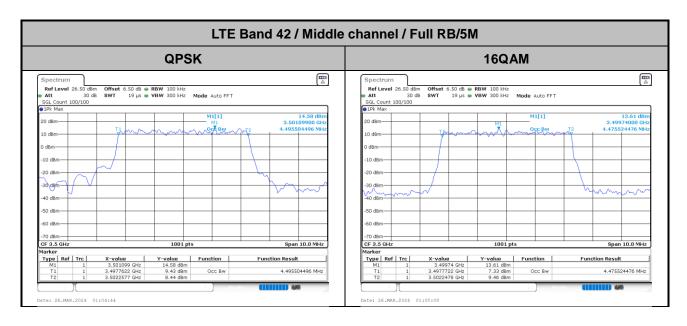
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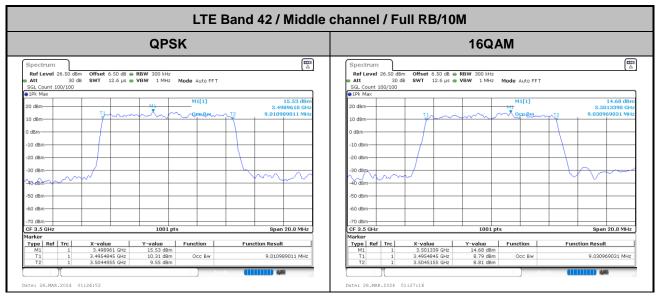


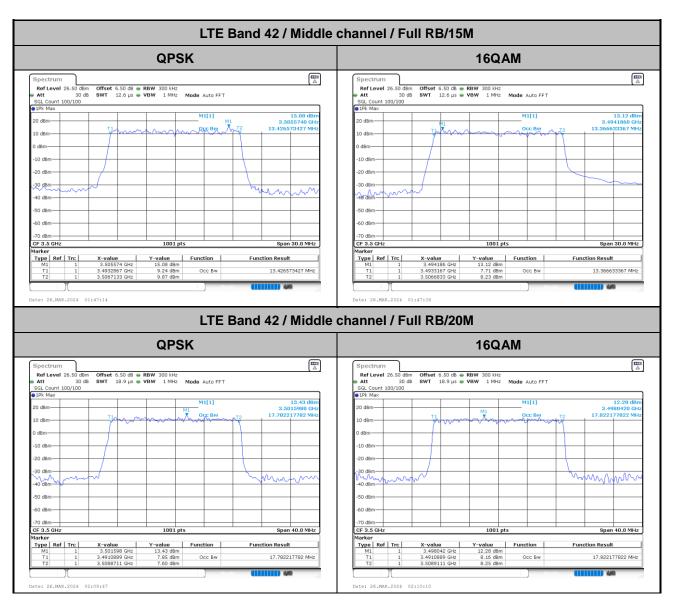
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# **Occupied Bandwidth**

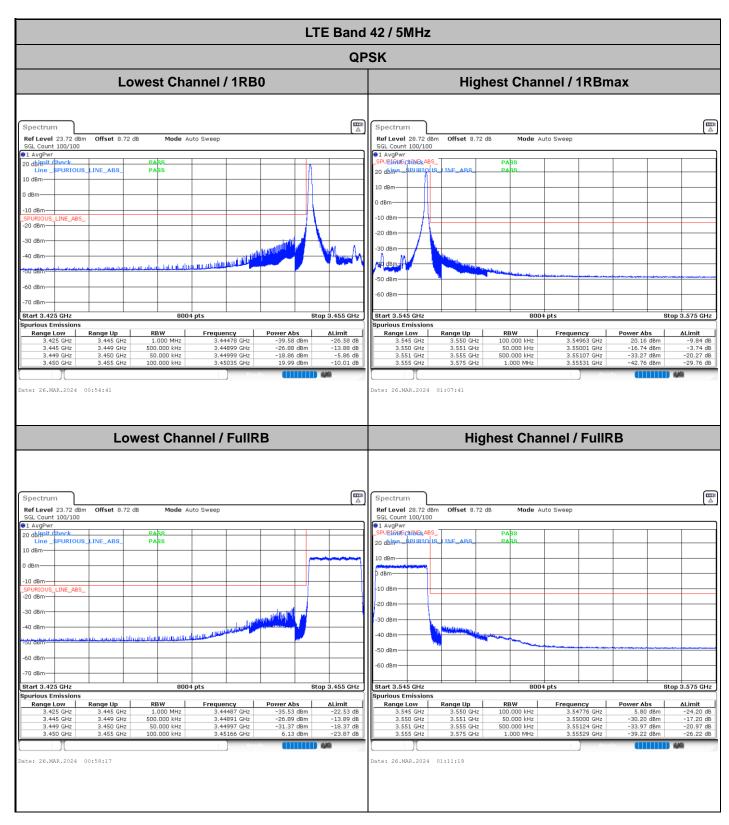
Mode	LTE Band 42 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.50	4.48	9.01	9.03	13.43	13.37	17.78	17.82





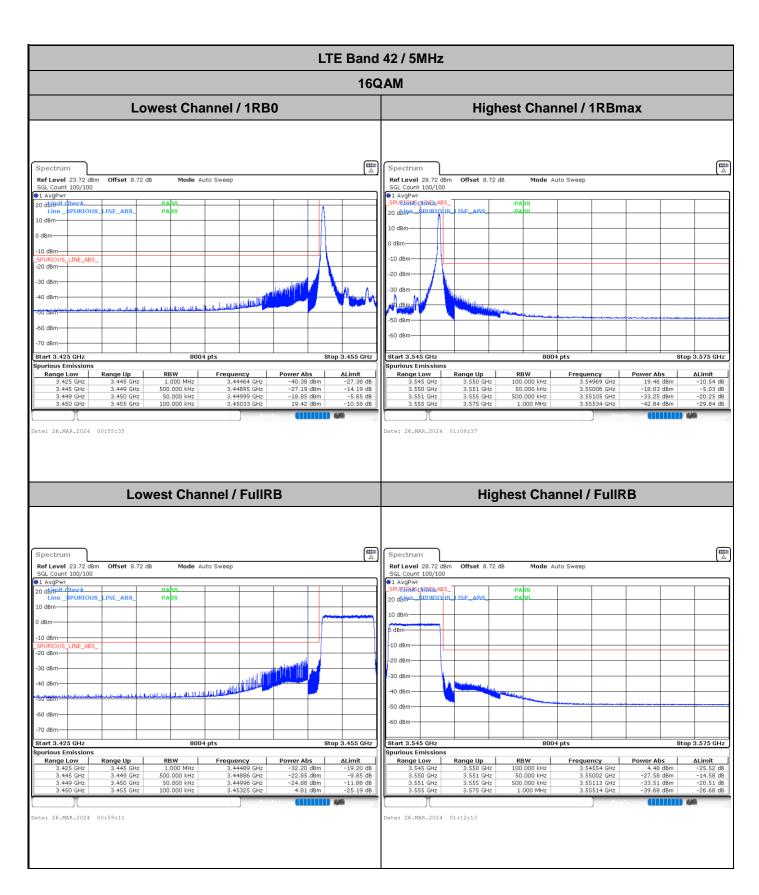


# **Conducted Band Edge**



Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FCC ID: IHDT56AR8 Page Number : A8 of A72



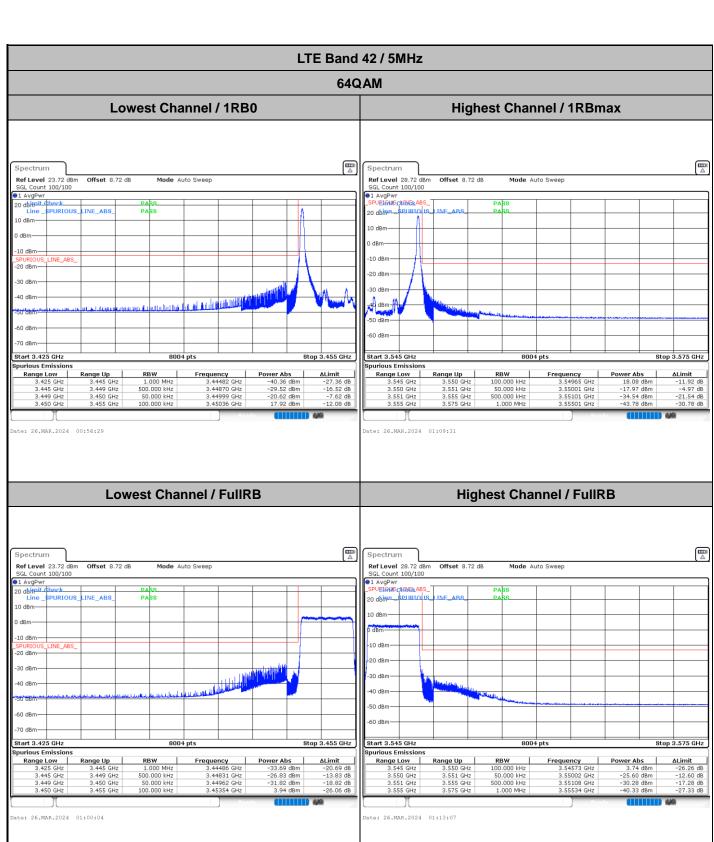
Page Number

: A9 of A72

Report No.: FG422203-01B

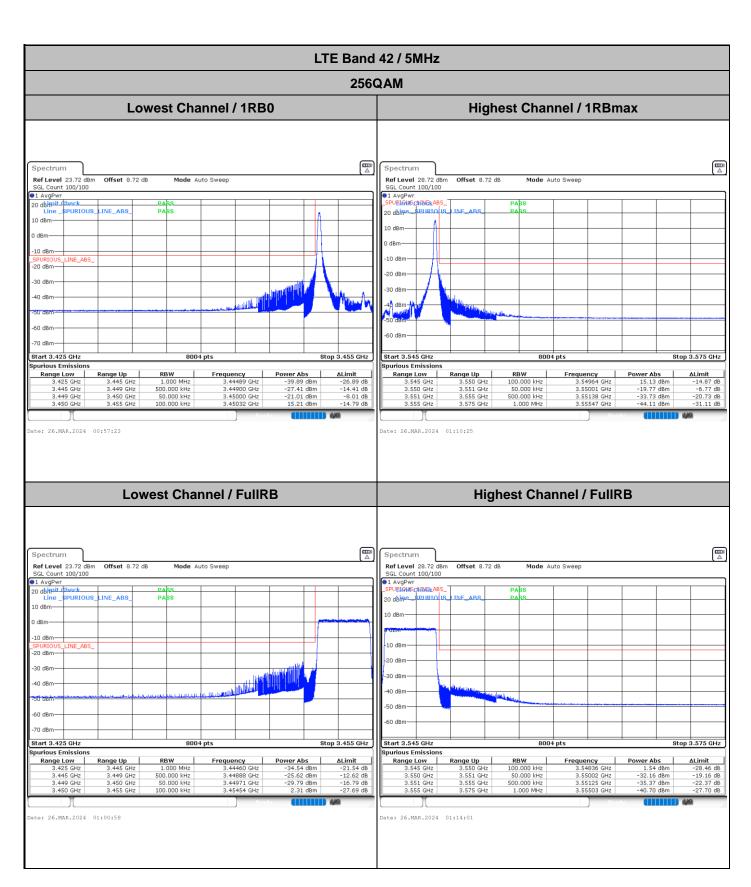
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TEL: +86-512-57900158 FCC ID: IHDT56AR8



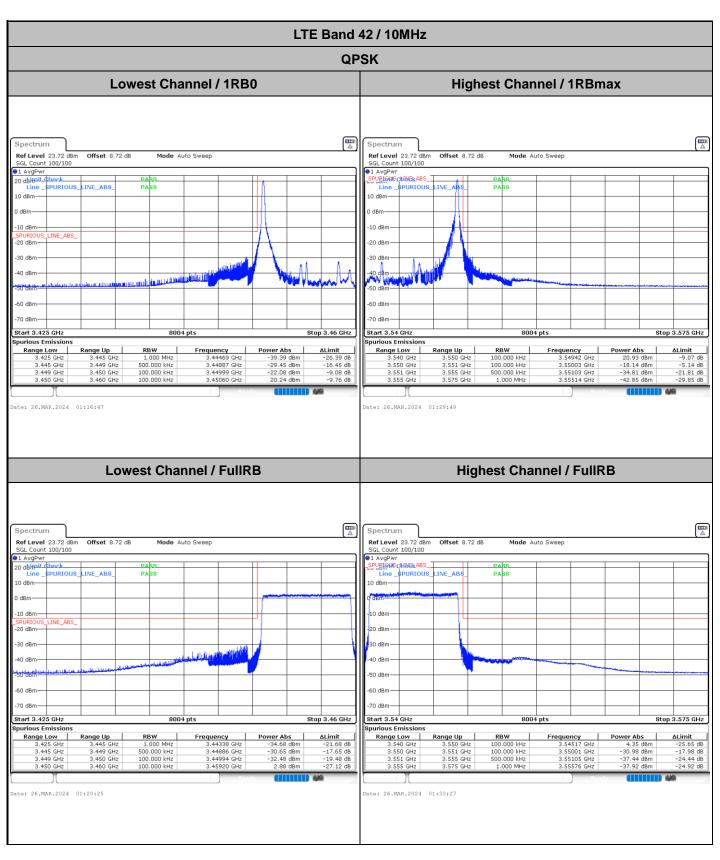
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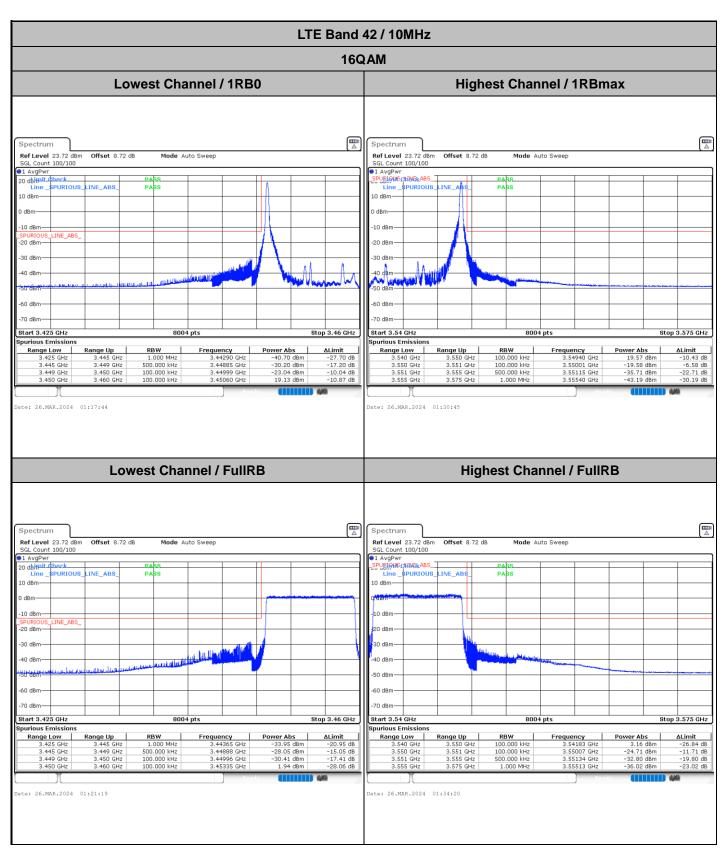
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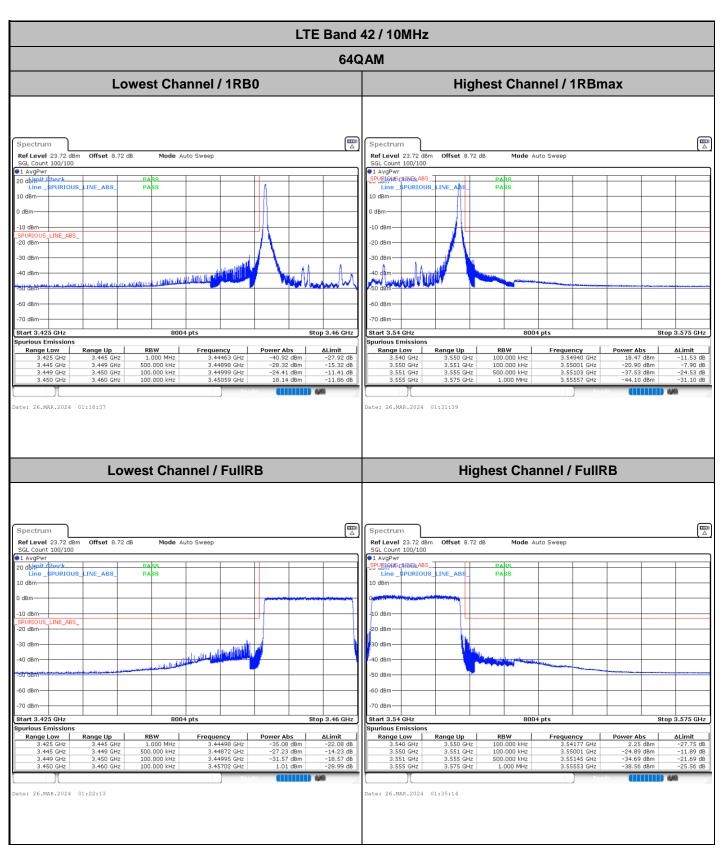


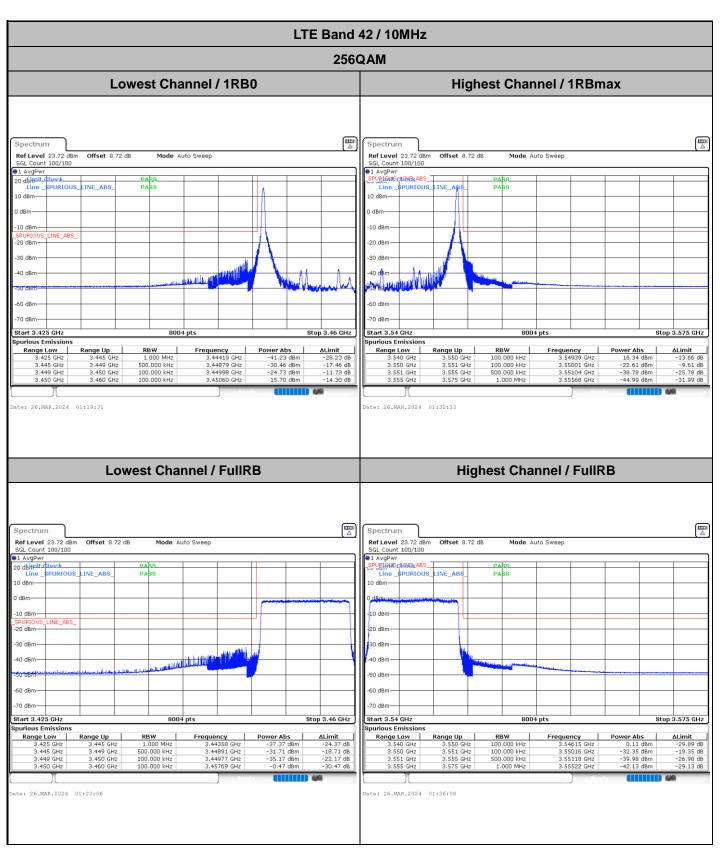
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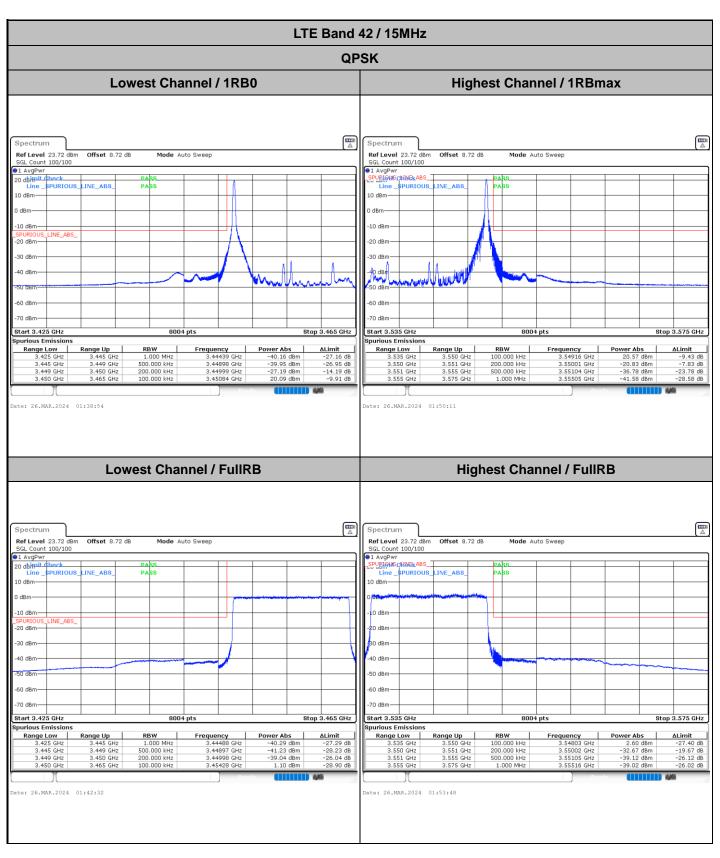
: A11 of A72

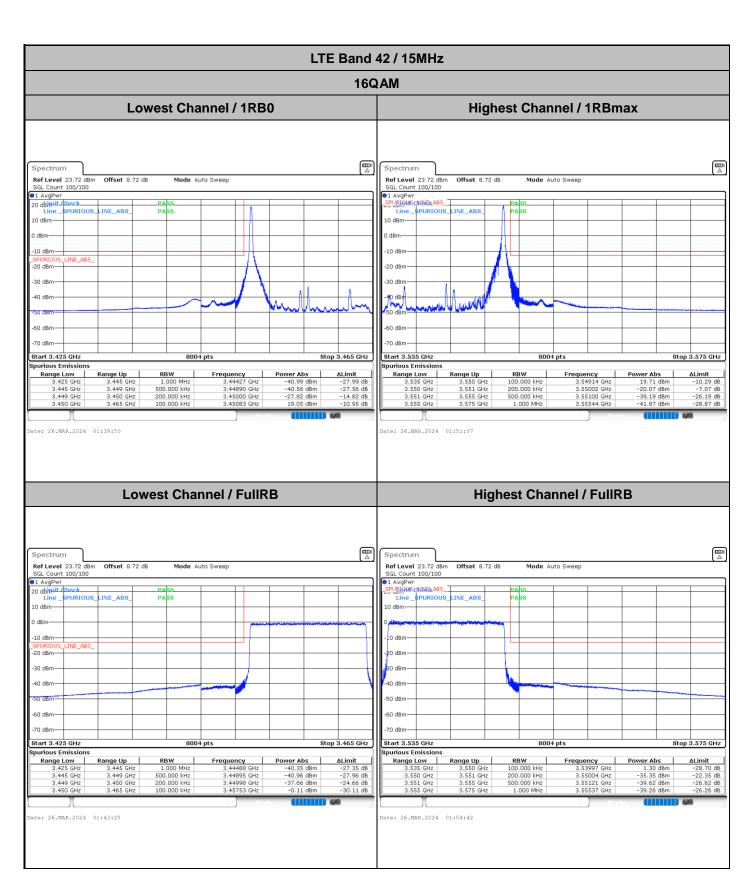












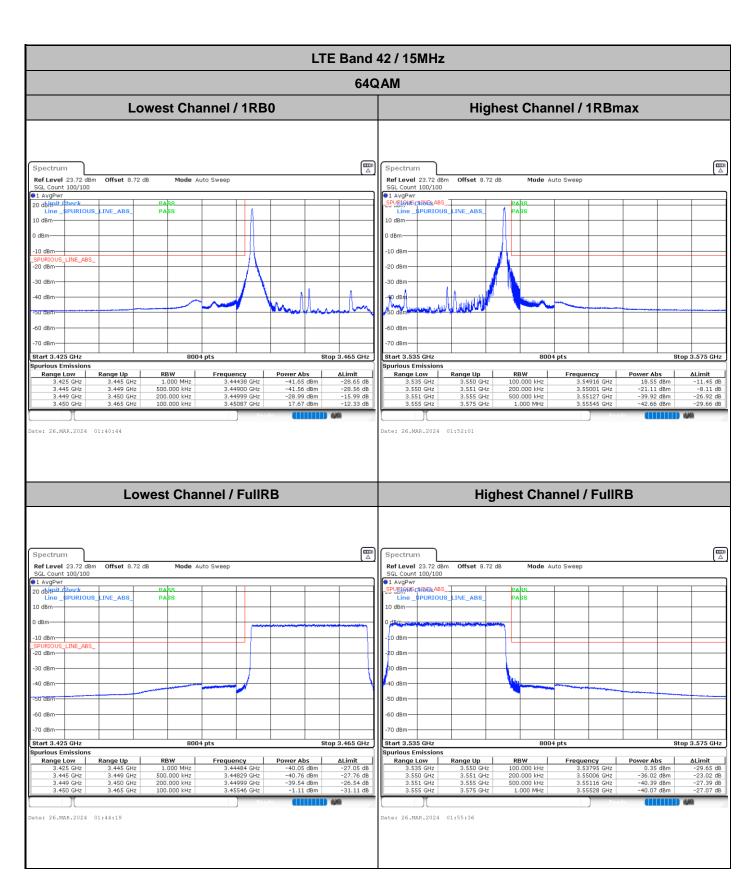
Report No.: FG422203-01B

: A17 of A72

Page Number

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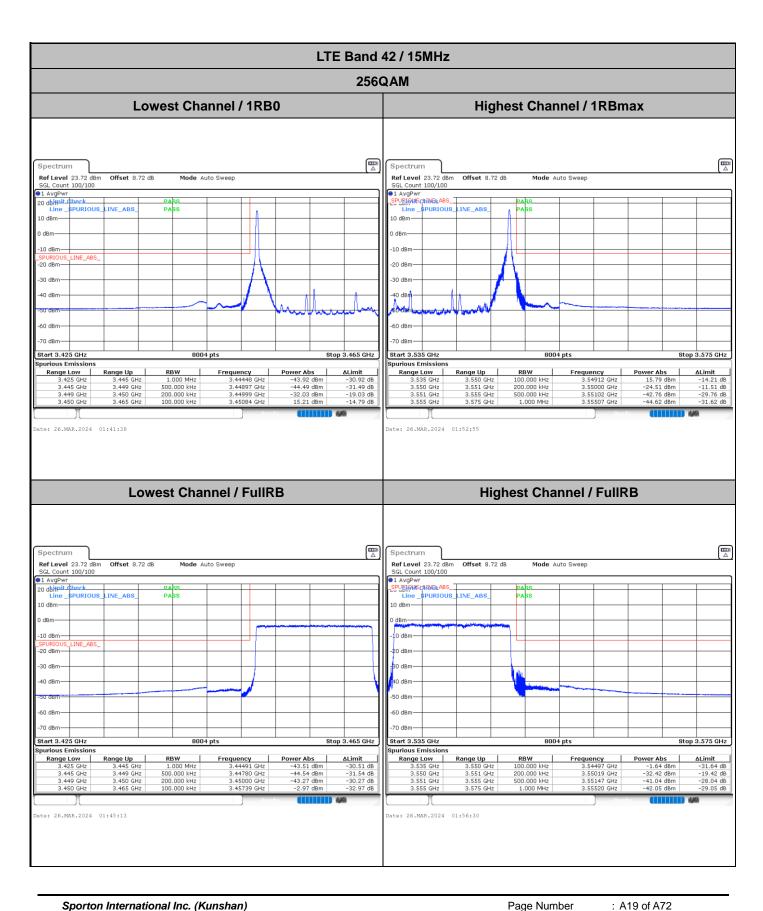
TEL: +86-512-57900158 FCC ID: IHDT56AR8



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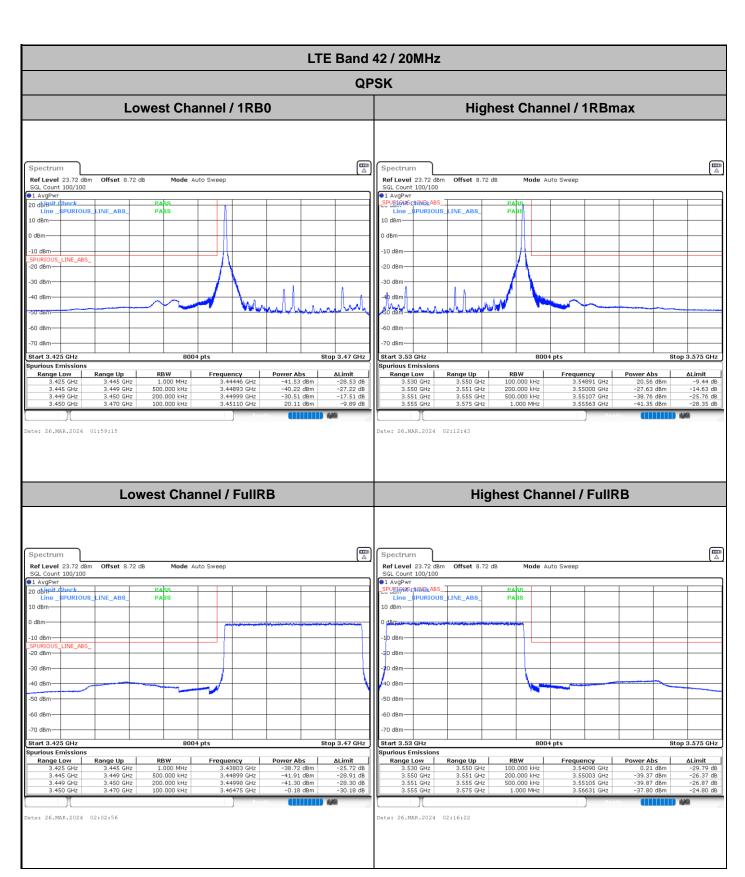
: A18 of A72



Report No.: FG422203-01B

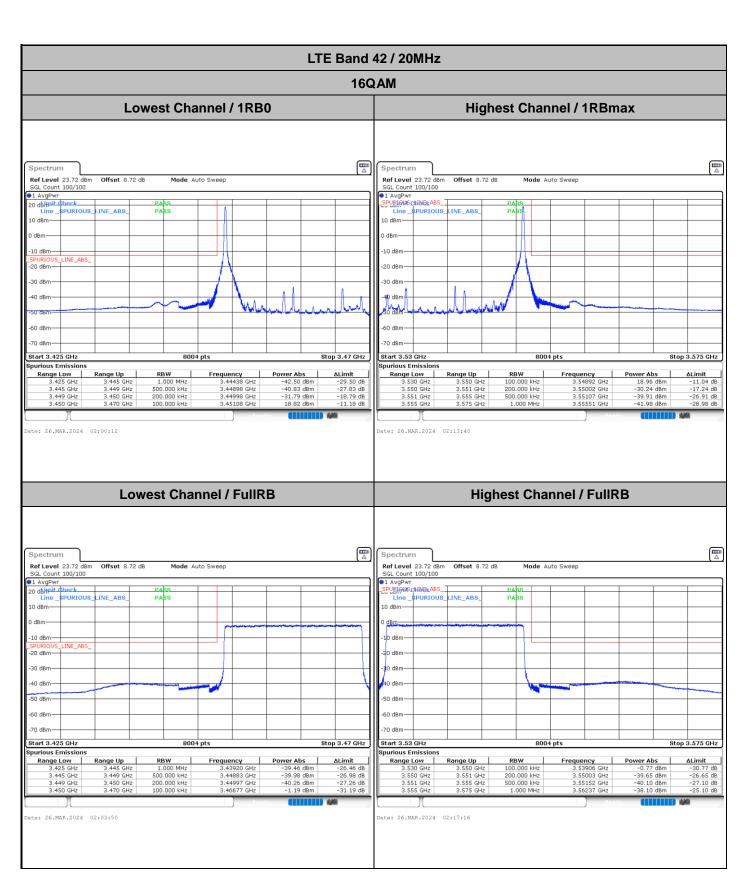
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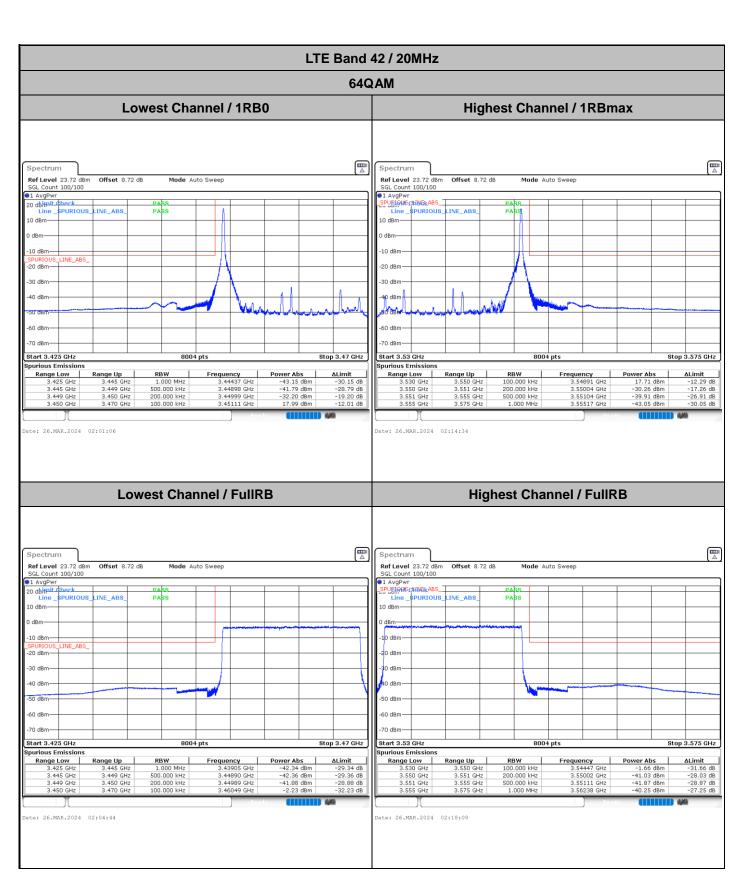
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Page Number

: A22 of A72

Report No.: FG422203-01B

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