



# Spot Check Evaluation

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT2523-3, XT2523-6  
FCC ID : IHDT56AT4  
STANDARD : 47 CFR Part 22, 27  
47 CFR Part 15 Subpart C §15.247  
47 CFR Part 15 Subpart E §15.407  
TEST DATE(S) : Sep. 14, 2024 ~ Oct. 23, 2024

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in 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. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (ShenZhen)**

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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# 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	XT2523-3, XT2523-6
FCC ID	IHDT56AT4
IMEI Code	Conducted: 350288530019378/350288530019386 354802740024394/354802740024402 Radiation: 350288530017158/350288530017166(BT/WLAN2.4G) 350288530017992/350288530018008(WLAN5G/WWAN) Conduction: 350288530017935/350288530017943
HW Version	DVT2
SW Version	VVTA35.44, UUTB34.23
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 Modification of EUT

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

## 1.5 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-SZ TH01-SZ DFS01-SZ	CN1256	421272

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH01-SZ	CN1256	421272

## 1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b
3.	DFS01-SZ	Sporton	Test Tools	1.0

## 1.7 Applicable Standards

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

- ♦ FCC KDB 484596 D01 Referencing Test Data v02r03
- ♦ 47 CFR Part 22, 27
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.26-2015



### 1.8 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-101
AC Adapter 1(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-102
AC Adapter 1(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-103
AC Adapter 1(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-104
AC Adapter 1(AU)	Brand Name	Motorola(AOHAI)	Model Name	MC-105
AC Adapter 1(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-106
AC Adapter 2(US)	Brand Name	Motorola(CHENYANG)	Model Name	MC-101
AC Adapter 2(EU)	Brand Name	Motorola(CHENYANG)	Model Name	MC-102
AC Adapter 2(UK)	Brand Name	Motorola(CHENYANG)	Model Name	MC-103
AC Adapter 2(AU)	Brand Name	Motorola(CHENYANG)	Model Name	MC-105
AC Adapter 2(AR)	Brand Name	Motorola(CHENYANG)	Model Name	MC-106
AC Adapter 2(BR)	Brand Name	Motorola(CHENYANG)	Model Name	MC-107
AC Adapter 2(PRC)	Brand Name	Motorola(CHENYANG)	Model Name	MC-108
AC Adapter 3(CHILE)	Brand Name	Motorola(SALCOMP)	Model Name	MC-109
Battery 1	Brand Name	Motorola(ATL)	Model Name	RL52
Battery 2	Brand Name	Motorola(Jiade)	Model Name	RL52
Battery 3	Brand Name	Motorola(Sunwoda)	Model Name	RL52
USB Cable 1	Brand Name	Motorola(Yihuaxing)	Model Name	T365-020 T365-020-01 T365-020-02
USB Cable 2	Brand Name	Motorola(WASHIN)	Model Name	HX-TL-01 HX-TL-08 HX-TL-07
USB Cable 3	Brand Name	Motorola(Juwei)	Model Name	JWUB1614-T03H JWUB1705-T03H JWUB1856-T03H
USB Cable 4	Brand Name	Motorola(I-SHENG)	Model Name	SC18D38574



## 2 Re-use of Measured Data

### 2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2523-3, XT2523-6, FCC ID: IHDT56AT4) is electrically identical to the reference device (Model: XT2523-2, XT2523-8, FCC ID: IHDT56AT3) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

ECR Data Referencing Inquiry has been approved by FCC, and the data referencing and spot check test plan includes RF/EMC, the details are presented in section 2.3 of this report.

The criteria set in section 3 of KDB 484596 D01 v02r03 is followed to determine whether the data referencing is justified. For SAR, the higher between the referenced value and the spot check value is used to determine compliance in both standalone and simultaneous transmission conditions

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AT4 .

### 2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AT3 and FCC ID: IHDT56AT4 is as below:

- Remove GSM1900/WCDMA II/IV, LTE B2/4/13/26/66
- Add LTE B20/41.

Other differences and all the details of similarity and difference can be found in the confidential documents (IHDT56AT4 Operational Description of Product Equality Declaration).



2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Reference on test	Reference Title	FCC ID Filling (Variant)	Test on the variant	Data Referencing (Y/N)
15C	DSS (BR/EDR)	2400~2483.5	IHDT56AT3	Full test	FR480701A	IHDT56AT4	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AT3	Full test	FR480701B	IHDT56AT4	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AT3	Full test	FR480701C	IHDT56AT4	Spot check	Y, All test items
15E	U-NII	5180~5240	IHDT56AT3	Full test	FR480701D	IHDT56AT4	Spot check	Y, All test items
		5260~5320	IHDT56AT3	Full test	FR480701D	IHDT56AT4	Spot check	Y, All test items
		5500~5720	IHDT56AT3	Full test	FR480701D	IHDT56AT4	Spot check	Y, All test items
		5745~5825	IHDT56AT3	Full test	FR480701D	IHDT56AT4	Spot check	Y, All test items
		5260~5320 5500~5720	IHDT56AT3	Full test	FZ480701	IHDT56AT4	Spot check	Y, All test items
22, 27	TNE (GSM)	GSM 850	IHDT56AT3	Full test	FG480701A	IHDT56AT4	Spot check	Y, All test items
	TNE (WCDMA)	Band V	IHDT56AT3	Full test	FG480701A	IHDT56AT4	Spot check	Y, All test items
	TNE (LTE)	B7/38	IHDT56AT3	Full test	FG480701B	IHDT56AT4	Spot check	Y, All test items

Y: Pointer to spot-check exhibit; N: Pointer to full test exhibit



## 2.4 Spot Check Verification Data Section

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation  $d_{dB}$  from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \quad (1)$$

$V_{dB}$ , the variant spot-check level

$R_{dB}$ , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data  $R_{dB}$  is from the compliance threshold  $C_{dB}$  (also expressed in dB), for the particular test under consideration. In this case, if  $M_{dB} = |C_{dB} - R_{dB}|$  is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation  $d_{dB}$  from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB} , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB} , \text{ for } M_{dB} > 60 \text{ dB}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2),  $d_{dB}$  increases linearly from 3 dB to 6 dB.



Summary for spot check for each rule entry and technology is listed as below:

Mode	Test Item	IHDT56AT3 Parent Worst mode Test Result	IHDT56AT4 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
BT 1Mbps (CH78)	Number of Channels	79 MHz	79 MHz	0 MHz	3
	Hopping Channel Separation	0.99 MHz	1.00 MHz	0.01 MHz	3
	Dwell Time of Each Channel	0.31 s	0.31 s	0 s	3
	20dB Bandwidth	0.85 MHz	0.87 MHz	0.02 MHz	3
	99% Bandwidth	0.76 MHz	0.76 MHz	0 MHz	3
	Peak Output Power	11.3 dBm	11.05 dBm	0.25 dB	
	Conducted Band Edges	-53.22 dBm	-54.72 dBm	1.5 dB	3
	Conducted Spurious Emission	-36.26 dBm	-38.2 dBm	1.94 dB	3
BT 1Mbps (CH78)	Radiated Band Edges and Radiated Spurious Emission	54.60	51.67	2.93	3
BT	AC Conducted Emission	43.29	43.19	0.1	3
BLE	6dB Bandwidth	0.69 MHz	0.69 MHz	0 MHz	3
	99% Bandwidth	1.05 MHz	1.05 MHz	0 MHz	3
	Peak Output Power	3.53 dBm	3.04 dBm	0.49 dB	
	Power Spectral Density	-3.46 dBm	-3.86 dBm	0.4 dB	3
	Conducted Band Edges	-56.64 dBm	-57.23 dBm	0.59 dB	3
	Conducted Spurious Emission	-47.28 dBm	-47.97 dBm	0.69 dB	3
BLE	Radiated Band Edges and Spurious Emission	42.87	39.89	2.98	3
BLE	AC Conducted Emission	43.29	43.19	0.1	3
WIFI 2.4G	6dB Bandwidth	35.16 MHz	33.92 MHz	1.24 MHz	3
	99% Bandwidth	36.77 MHz	36.69 MHz	0.08 MHz	3
	Peak Output Power	24.68 dBm	24.40 dBm	0.28 dB	
	Power Spectral Density	-9.8 dBm	-10.08 dBm	0.28 dB	3
	Conducted Band Edges	-24.01 dBm	-25.77 dBm	1.76 dB	3
	Conducted Spurious Emission	-46.39 dBm	-48.98 dBm	2.59 dB	3
WIFI 2.4G	Radiated Band Edges and Spurious Emission	50.28	50.59	0.31	3
WIFI 2.4G	AC Conducted Emission	43.09	43.69	0.6	3
WIFI 5G	26dB Bandwidth&99% Bandwidth	27.24 MHz	27.18 MHz	0.06 MHz	3
	Maximum Conducted Output Power	10.69 dBm	10.62 dBm	0.07 dB	3
	Power Spectral Density	-1.06 dBm	-1.1 dBm	0.04 dB	3
	Unwanted Emissions	50.91	50.71	0.2	3
	DFS	0.843628 s	0.940831 s	0.097203 s	3
WIFI 5G	AC Conducted Emission	43.39	42.99	0.4	3
Part 27 (LTE B7)	Conducted Power	23.44dBm	23.5dBm	0.06dB	3
	Peak-to-Average Ratio (dB)	4.81dB	4.93dB	0.12dB	3
	Occupied Bandwidth (MHz)	17.98MHz	17.90MHz	0.08MHz	3
	Conducted Band Edge Measurement (dBm)	-28.1dBm	-30.8dBm	2.7dB	3
	Conducted Spurious Emission (dBm)	-41.88dB	-42.49dB	0.61dB	3
	Frequency Stability Temperature & Voltage (ppm)	5.4Hz	4.9Hz	0.5Hz	3
	Radiated Spurious Emission	-36.43	-39.35	2.92	3



Test Item	Mode	IHDT56AT3 Parent Worst mode Test Result	IHDT56AT4 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	11.3	11.05	0.25	3
	BLE 125K CH19	3.53	3.04	0.49	3
	11b, 2.4GHz	17.5	16.92	0.58	3
	11g, 2.4GHz	24.53	24.4	0.13	3
	11n HT20, 2.4GHz	24.66	24.33	0.33	3
	11n HT40, 2.4GHz	24.68	24.40	0.28	3
	11a, 5.2GHz	10.69	10.62	0.07	3
	11n HT20, 5.2GHz	10.57	10.03	0.54	3
	11n HT40, 5.2GHz	10.67	10.22	0.45	3
	11ac VHT80, 5.5GHz	10.68	10.15	0.53	3
	11a, 5.8GHz	9.1	8.62	0.48	3
	11n HT20, 5.8GHz	9.07	8.60	0.47	3
	11n HT40, 5.8GHz	9.27	8.78	0.49	3
	11ac VHT80, 5.8GHz	9.28	8.72	0.56	3
	GSM850	32.30	32.21	0.09	3
	WCDMA B5	23.46	23.33	0.13	3
	LTE Band 7	23.50	23.23	0.27	3
LTE Band 38	23.43	23.31	0.12	3	

Conclusion:

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. All spot check test data are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r03 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



### 3 List of Measuring Equipment

For BT/WIFI:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Oct. 16, 2024~ Oct. 23, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Oct. 16, 2024~ Oct. 23, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Oct. 16, 2024~ Oct. 23, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Sep. 25, 2024~ Sep. 29, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Sep. 25, 2024~ Sep. 29, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Sep. 25, 2024~ Sep. 29, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Sep. 25, 2024~ Sep. 29, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Sep. 25, 2024~ Sep. 29, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 09, 2024	Sep. 25, 2024~ Sep. 29, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Sep. 25, 2024~ Sep. 29, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Sep. 25, 2024~ Sep. 29, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 18, 2023	Sep. 25, 2024~ Sep. 29, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Sep. 25, 2024~ Sep. 29, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	Sep. 25, 2024~ Sep. 29, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 25, 2024~ Sep. 29, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 25, 2024~ Sep. 29, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 04, 2024	Sep. 14, 2024	Jul. 03, 2025	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Jul. 04, 2024	Sep. 14, 2024	Jul. 03, 2025	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Sep. 14, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Aug. 14, 2024	Sep. 14, 2024	Aug. 13, 2025	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2023	Sep. 15, 2024	Dec. 27, 2024	Conducted (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	Sep. 15, 2024	Apr. 08, 2025	Conducted (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011007	0.4~6GHz	Sep. 05, 2024	Sep. 15, 2024	Sep. 04, 2025	Conducted (DFS01-SZ)

NCR: No Calibration Required.



For WWAN Bands:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Sep. 29, 2024~ Oct. 01, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Sep. 29, 2024~ Oct. 01, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-0426 5	60.06.020. 0077	0.4GHz~26.5G Hz	Dec. 25, 2023	Sep. 29, 2024~ Oct. 01, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY522601 85	20Hz~26.5GHz	Dec. 27, 2023	Sep. 28, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Sep. 28, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY532701 05	0.5GHz~26.5Gh z	Oct. 18,2023	Sep. 28, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Sep. 28, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Sep. 28, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Sep. 28, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Sep. 28, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18, 2023	Sep. 28, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 03, 2024	Sep. 28, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	Oct. 18, 2023	Sep. 28, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 28, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 28, 2024	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required.



## 4 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 (BT/WIFI2.4G/5G)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

### Uncertainty of Conducted Measurement (DFS)

Test Item	Uncertainty
Conducted Generated signal Levels	±1.23 dB
Conducted Time	0.38%

### Uncertainty of Conducted Measurement (WWAN)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±1.34 dB
Frequency Stability	±1.3 Hz

### Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB
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03CH01-SZ(BT/WIF):

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3 dB
---	--------

03CH01-SZ(WWAN):

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02 dB
---	---------

-THE END-



### Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Zhaohui Liang	Relative Humidity :	50%
		Temperature :	20-22°C

#### Radiated Spurious Emission Test Modes

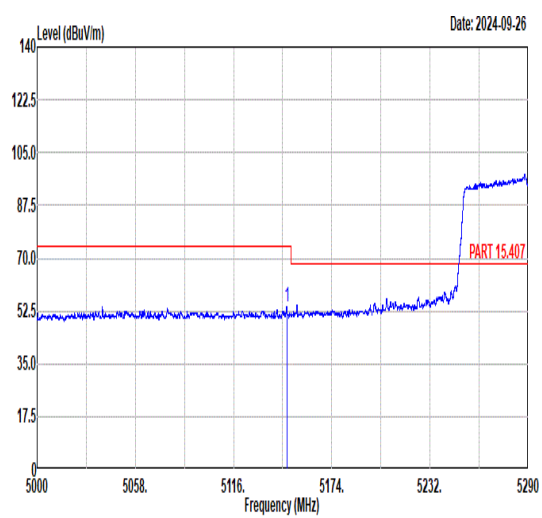
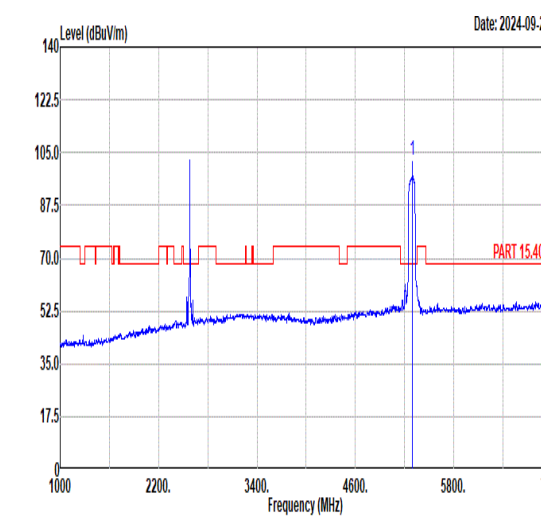
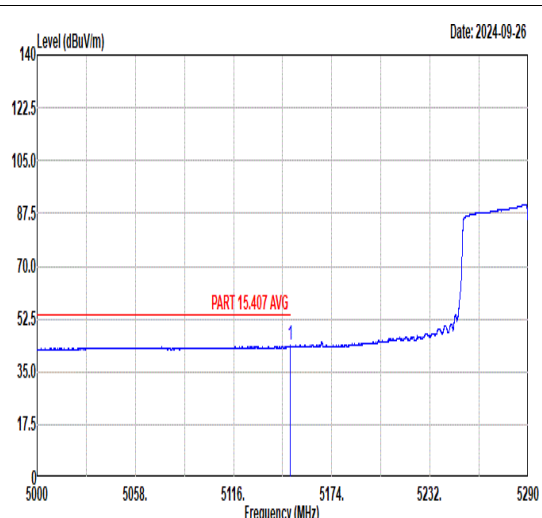
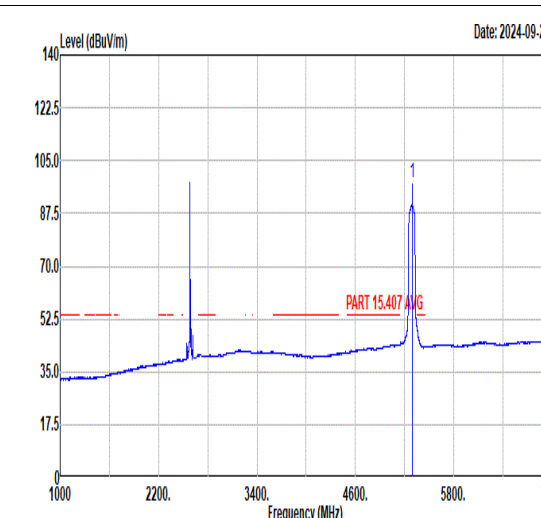
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1 CO-TX	U-NII-2A	5.25-5.35	5	802.11ac VHT80	58	5290	MCS0	-	-
	-	-	-	BT ON	-	-	-	-	-
	-	-	-	LTE Band 41 Link	-	-	-	-	-
Mode 2 CO-TX				LF					

#### Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
Mode 1	CO-TX	-	5350.10	50.23	54.00	-3.77	H	AVERAGE	Pass	Band Edge
		-	12930.0	-31.19	-25.00	-6.19	V	Peak	Pass	Harmonic
Mode 2	CO-TX	-	46.49	31.12	40.00	-8.87	V	Peak	Pass	LF





<b>1</b>																																							
<b>Mode</b>	<b>Band Edge - L</b>																																						
	<b>U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz+LTE Band 41 Link</b>																																						
<b>ANT</b>	<b>5+0</b>																																						
<b>Pol.</b>	<b>Horizontal</b>																																						
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