Report Number: 60.790.18.051.01R02

**Appendices** 



#### **FCC - TEST REPORT**

Report Number	:	60.790.18.051.01R02	Date of Issue	:_	January 15, 2019
Model	: .	Door Lock, Glass Lock	, Plunger Lock		
Product Type	:	Digital Lock			
Applicant	: .	Mobile Technologies Inc.			
Address	: .	1050 NE 67th Ave, Hillsh	oro, OR 97124		
Production Facility	: .	PS Gmbh			
Address	: ,	Melisau 1255, Autria, 68	63 Egg.		
Test Result	:	■Positive	□Negative		
Total pages including	:	35			

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch issued reports.

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## 2 Description of Equipment Under Test

### **Description of the Equipment Under Test**

Product: Digital Lock

Model no.: Door Lock, Glass Lock, Plunger Lock

FCC ID: 2AA2X-1500011824

Rating: 3V DC (CR 123A battery)

Frequency: 2405MHz-2480MHz (Tx and Rx)

Antenna gain: 0 dBi

Number of operated channel: 16

Modulation: O-QPSK



## 3 Summary of Test Standards

#### **Test Standards**

FCC Part 15 Subpart C 10-1-17 Edition
Federal Communications Commission, PART 15 — Radio Frequency Devices,
Subpart C — Unintentional Radiators

All the tests were performed using the procedures from ANSI C63.4(2014) and ANSI C63.10 (2013).



## 4 Details about the Test Laboratory

Site 1

Company name: TÜV SÜD Hong Kong Ltd.

3/F, West Wing, Lakeside 2, 10 Science Park West Avenue, Science Park, Shatin, Hong Kong

Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13 Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Shenzhen 518052, P.R.China FCC Registration Number: 502708

Emission Tests					
Test Item	Test Site				
FCC Part 15 Subpart C					
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	Site 2				
FCC Title 47 Part 15.207 Conduct Emission	NA				
FCC Title 47 Part 15.247(a)(1) 6dB & 99% Bandwidth	Site 2				
FCC Title 47 Part 15.247(b) Peak Output Power	Site 2				
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	Site 2				
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	Site 2				
FCC Title 47 Part 15.247(e) Power Spectral Density	Site 2				
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	Site 2				



## **4.1 Test Equipment Site List**

#### Radiated emission Test - Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100398	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-6-28
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-6-28
Wideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	12827	2019-7-12
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6		2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

#### **Conducted Emission Test - Site 2**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2019-7-6
LISN	Rohde & Schwarz	ENV4200	100249	2019-7-6
LISN	Rohde & Schwarz	ENV432	101318	2019-7-6
LISN	Rohde & Schwarz	ENV216	100326	2019-7-6
ISN	Rohde & Schwarz	ENY81	100177	2019-7-6
ISN	Rohde & Schwarz	ENY81-CA6	101664	2019-7-6
High Voltage Probe	Rohde & Schwarz	TK9420(VT94 20)	9420-584	2019-6-30
RF Current Probe	Rohde & Schwarz	EZ-17	100816	2019-6-30
Attenuator	Shanghai Huaxiang	TS2-26-3	080928189	2019-7-6
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A

# 20dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, Power Spectral Density – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	108272	2019-7-6
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2019-7-6
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	2019-7-6
RF Switch Module	Rohde & Schwarz	OSP120/OSP- B157	101226/100851	2019-7-6



## **4.2 Measurement System Uncertainty**

## **Measurement System Uncertainty Emissions**

System Measurement Uncertainty					
Items Extended Uncertainty					
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.46dB				
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;				
Uncertainty for Radiated Emission in 3m chamber 1000MHz-25000MHz	Horizontal: 4.80dB; Vertical: 4.79dB;				
Uncertainty for Conducted Emission at AC Power Line 150kHz-30MHz	3.21dB				
Uncertainty for frequency test	0.6×10-7				

Report Number: 60.790.18.051.01R02



# 5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart C				
Test Condition	Pages	Te	st Resi	ult
		Pass	Fail	N/A
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	10-14			
FCC Title 47 Part 15.207 Conduct Emission (1)	NIL			
FCC Title 47 Part 15.247(a)(2) 6dB & 99% Bandwidth	16-18			
FCC Title 47 Part 15.247(b) Peak Output Power	19-21			
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	22-27			
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	28-29	$\boxtimes$		
FCC Title 47 Part 15.247(e) Power Spectral Density	30-32	$\boxtimes$		
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	33			

<sup>(1)</sup> Conducted Emission testing is not applicable for battery operating device.



### 6 General Remarks

#### Remarks

Client informs that the **Glass Lock and Plunger Lock** have the same technical construction including circuit diagram and electrical construction, with **Digital Lock**, **Door Lock**. The difference lies only in the outlook/color, PCB Layout, components, component layout and mechanical construction of the different models. (Client's conformation letter shown at appendix A)

EMC tests were performed on all three models, only the Door Lock's data was shown on this report, which is the worst case.

This submittal(s) (test report) is intended for **FCC ID: 2AA2X-1500011824**, complies with Section 15.203, 15.205, 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules for the DTS grant

The TX and RX range is 2405MHz-2480MHz.

#### **SUMMARY:**

- All tests according to the regulations cited on page 8 were
  - - Performed
  - □ Not Performed
- The Equipment Under Test
  - Fulfills the general approval requirements.
  - □ **Does not** fulfill the general approval requirements.

Sample Received Date: October 10, 2018

Testing Start Date: October 16, 2018

Testing End Date: January 7, 2019

Reviewed by:

Hosea CHAN EMC Project Engineer Prepared by

Eric LI EMC Senior Project Engineer



Test Result

Passed

Not Passed

## 7 Emission Test Results

### 7.1 Spurious Radiated Emission

EUT: Door Lock

Op Condition: Operated, TX Mode

(Low channel is the worst case)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: 3V DC

Remark: 9kHz to 1GHz

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.	
MHz	dBµV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)	
46.597778	16.28	40.00	23.72	Peak	Н	-25.3	-
108.031111	11.73	43.50	31.77	Peak	Н	-27.5	
943.201111	29.25	46.00	16.75	Peak	Н	-15.2	
111.480000	13.71	43.50	29.79	Peak	V	-27.8	
374.026667	15.34	46.00	30.66	Peak	V	-24.7	
943.308889	29.08	46.00	16.92	Peak	V	-15.2	

<sup>1.</sup> As the measured peak value not exceeded the Quasi peak limit, Quasi peak value no need to be measured.



EUT: Door Lock

Op Condition: Operated, TX Mode (2405MHz)
Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: 3V DC

Remark: 1GHz to 25GHz

Test Result	
□ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBμV/m	dBμV/m	dB	PK/QP/AV	H/V	(dB)
1251.937500	29.93	54.00	-24.07	Peak	Н	-11.8
1785.500000	30.19	54.00	-23.81	Peak	Н	-9.8
4810.781250	39.90	54.00	-14.10	Peak	Н	3.8
7525.781250	41.77	54.00	-12.23	Peak	Н	9.7
9885.468750	43.79	54.00	-10.21	Peak	Н	9.5
1252.312500	31.32	54.00	-22.68	Peak	V	-11.8
1798.000000	26.52	54.00	-27.48	Peak	V	-9.8
4809.843750	38.39	54.00	-15.61	Peak	V	3.8
7510.781250	42.06	54.00	-11.94	Peak	V	9.5
10610.625000	41.92	54.00	-12.08	Peak	V	10.3

<sup>1.</sup>As the measured peak value not exceeded the average limit, average value no need to be measured.



EUT: Door Lock

Op Condition: Operated, TX Mode (2445MHz)
Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: 3V DC

Remark: 1GHz to 25GHz

Test Result	
⊠ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBµV/m	dBμV/m	dB	PK/QP/AV	H/V	(dB)
1253.812500	29.58	54.00	-24.42	Peak	Н	-11.8
1774.562500	28.29	54.00	-25.71	Peak	Н	-9.9
4889.062500	39.13	54.00	-14.87	Peak	Н	3.9
7614.375000	43.01	54.00	-10.99	Peak	Н	9.8
17581.875000	50.29	54.00	-3.71	Peak	Н	22.7
1248.500000	30.49	54.00	-23.51	Peak	V	-11.9
1785.750000	26.97	54.00	-27.03	Peak	V	-9.8
4890.937500	38.63	54.00	-15.37	Peak	V	3.9
7522.031250	41.42	54.00	-12.58	Peak	V	9.6
17899.218750	50.77	54.00	-3.23	Peak	V	22.6

<sup>1.</sup>As the measured peak value not exceeded the average limit, average value no need to be measured.



EUT: Door Lock

Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: 3V DC

Remark: 1GHz to 25GHz

Test Result	
□ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBμV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
1247.312500	28.74	54.00	-25.26	Peak	Н	-11.9
1770.750000	28.10	54.00	-25.90	Peak	Н	-9.9
4960.781250	39.18	54.00	-14.82	Peak	Н	4.3
7558.593750	41.86	54.00	-12.14	Peak	Н	10.1
17219.062500	49.79	54.00	-4.21	Peak	Н	21.6
1256.562500	32.95	54.00	-21.05	Peak	V	-11.7
1797.187500	28.66	54.00	-25.34	Peak	V	-9.8
4953.750000	38.35	54.00	-15.65	Peak	V	4.3
7623.750000	42.58	54.00	-11.42	Peak	V	9.8
9511.875000	42.20	54.00	-11.80	Peak	V	9.8

<sup>1.</sup>As the measured peak value not exceeded the average limit, average value no need to be measured.



EUT: Door Lock

Op Condition: Operated, TX Mode (2405 and 2480)

Test Specification: FCC15.247

Comment: 3V DC, Radiated Bandedge

Test Result	
□ Passed	
☐ Not Passed	

Channel	Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
	MHz	dBµV/m	dBµV/m	dB	PK /AV	H/V	(dB)
2405	2400.00	44.45	74	-29.55	Peak	Н	-5.5
2405	2400.00	35.77	54	-18.23	Average	Н	-5.5
2405	2400.00	46.16	74	-27.84	Peak	V	-5.5
2405	2400.00	38.57	54	-15.43	Average	V	<b>-</b> 5.5
2480	2483.50	49.81	74	-24.19	Peak	Н	-4.8
2480	2483.50	41.42	54	-12.58	Average	Н	-4.8
2480	2483.50	47.77	74	-26.23	Peak	V	-4.8
2480	2483.50	36.35	54	-17.65	Average	V	-4.8

Report Number: 60.790.18.051.01R02



## 7.2 Conducted Emission at AC Power line

Conducted Emission testing is not applicable for this EUT as it is a battery operating device.



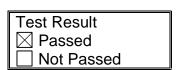
### 7.3 6dB & 99% Bandwidth

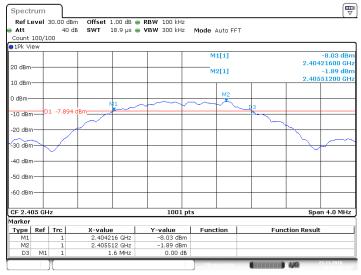
EUT: Door Lock

Op Condition: Operated, TX Mode (2405MHz)

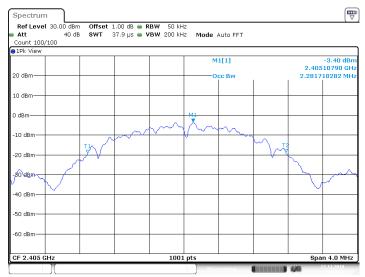
Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth

Comment: 3V DC









Date: 22 NOV 2018 16:15:25

Bandwidth	Measured Value	Limit
6dB bandwidth	1.600MHz	> 0.5MHz
99% OCB	2.282MHz	NA



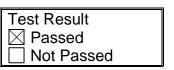
#### 6dB & 99% Bandwidth

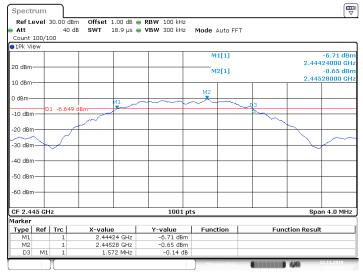
EUT: Door Lock

Op Condition: Operated, TX Mode (2445MHz)

Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth

Comment: 3V DC





Date: 22 NOV 2018 16:17:23



Date: 22 NOV 2018 16:17:34

Bandwidth	Measured Value	Limit
6dB bandwidth	1.572 MHz	> 0.5 MHz
99% OCB	2.306 MHz	NA



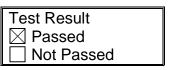
#### 6dB & 99% Bandwidth

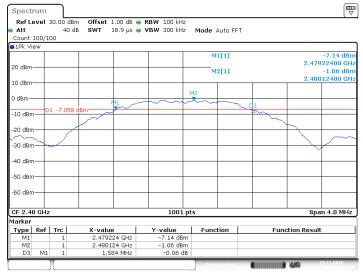
EUT: Door Lock

Op Condition: Operated, TX Mode (2480MHz)

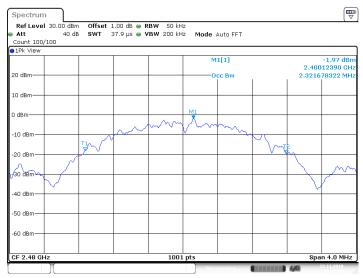
Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth

Comment: 3V DC





Date: 22 NOV 2018 16:19:10



Date: 22 NOV 2018 16:19:22

Bandwidth	Measured Value	Limit
6dB bandwidth	1.584 MHz	> 0.5 MHz
99% OCB	2.322 MHz	NA



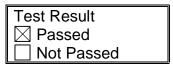
## 7.4 Peak Output Power

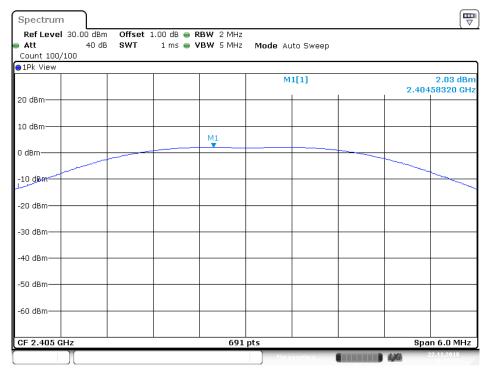
EUT: Door Lock

Op Condition: Operated, TX Mode (2405MHz)

Test Specification: FCC15.247(b)

Comment: 3V DC





Date: 22 NOV 2018 16:15:32

Conducted Output Power	Limit
2.03 dBm	< 30dBm



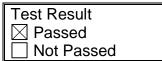
### **Peak Output Power**

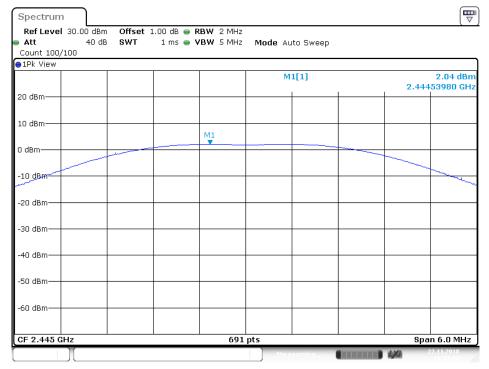
EUT: Door Lock

Op Condition: Operated, TX Mode (2445MHz)

Test Specification: FCC15.247(b)

Comment: 3V DC





Date: 22 NO V 2018 16:17:41

Conducted Output Power	Limit
2.04 dBm	< 30dBm



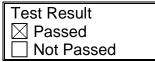
#### **Peak Output Power**

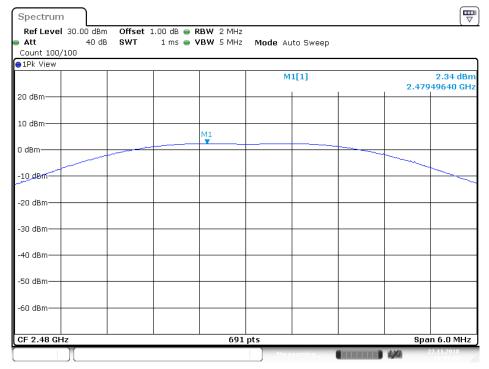
EUT: Door Lock

Op Condition: Operated, TX Mode (2480MHz)

Test Specification: FCC15.247(b)

Comment: 3V DC





Date: 22 NO V 2018 16:19:28

Conducted Output Power	Limit
2.34 dBm	< 30dBm



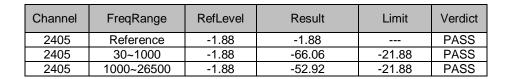
EUT: Door Lock

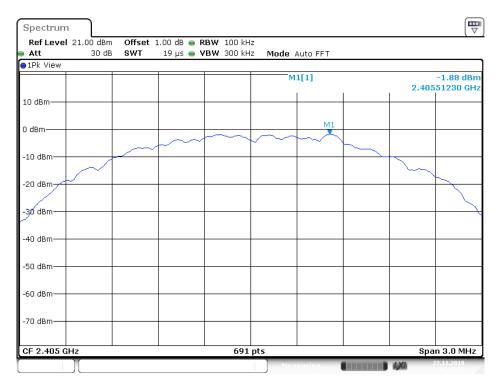
Op Condition: Operated, TX Mode (2405MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3V DC

Test Result	
□ Passed	
☐ Not Passed	





Date: 22 NOV 2018 16:15:55

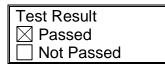


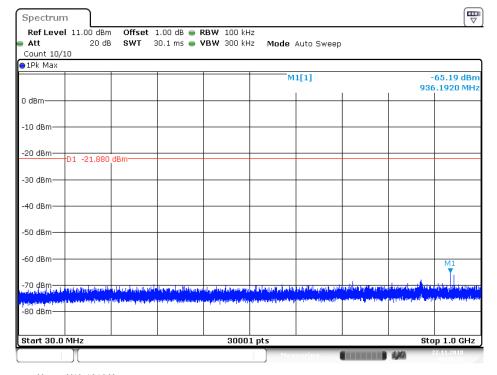
EUT: Door Lock

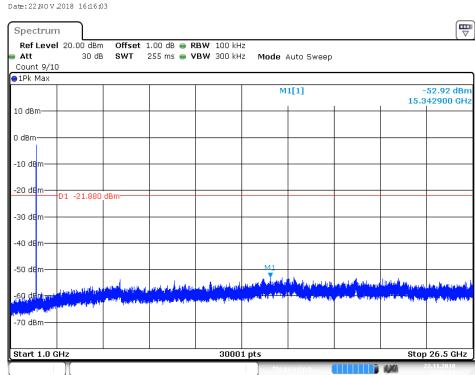
Op Condition: Operated, TX Mode (2405MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3V DC







Date: 22 NOV 2018 16:16:15



EUT: Door Lock

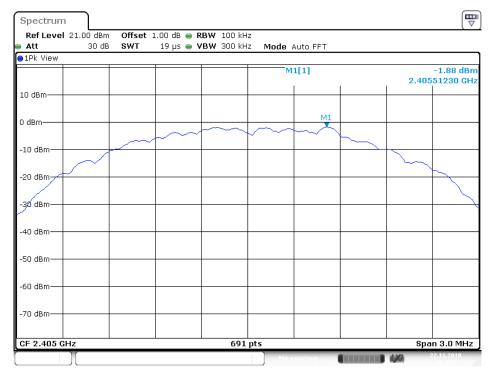
Op Condition: Operated, TX Mode (2445MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3V DC

Test Result	
□ Passed	
☐ Not Passed	

Channel	FreqRange	RefLevel	Result	Limit	Verdict
2445	Reference	-0.69	-0.69	-0.69	PASS
2445	30~1000	-0.69	-67.13	-0.69	PASS
2445	1000~26500	-0.69	-53.12	-0.69	PASS



Date: 22 NO V 2018 16:15:55

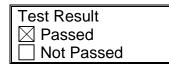


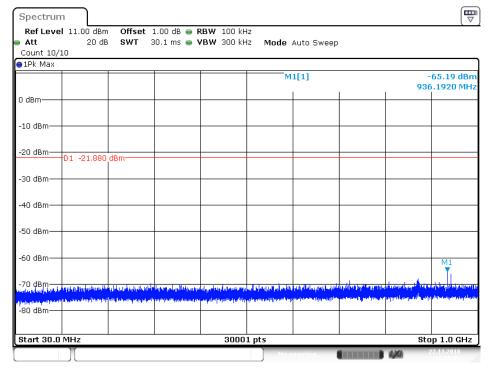
EUT: Door Lock

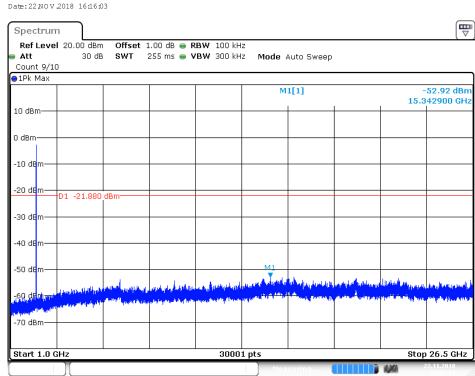
Op Condition: Operated, TX Mode (2445MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3V DC







Date: 22 NO V 2018 16:16:15



EUT: Door Lock

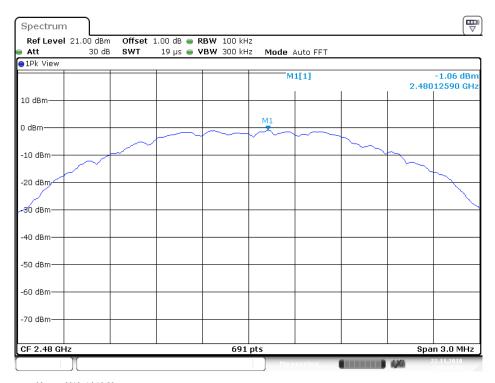
Op Condition: Operated, TX Mode (2480MHz)

Test Specification: FCC2.1051 & 15.247(d)

Comment: 3V DC

	_
Test Result	
□ Passed	
□ Not Passed	

Channel	FreqRange	RefLevel	Result	Limit	Verdict
2480	Reference	-1.06	-1.06	-1.06	PASS
2480	30~1000	-1.06	-64.53	-1.06	PASS
2480	1000~26500	-1.06	-49.15	-1.06	PASS



Date: 22 NO V 2018 16:19:50

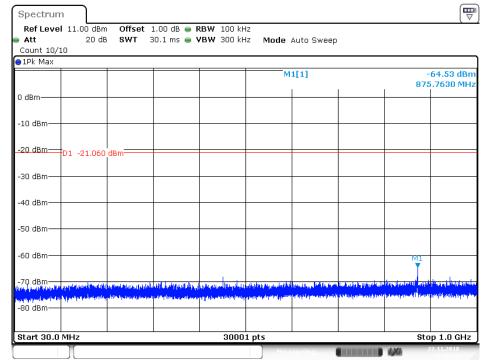


EUT: Door Lock
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC2.1051 & 15.247(d)

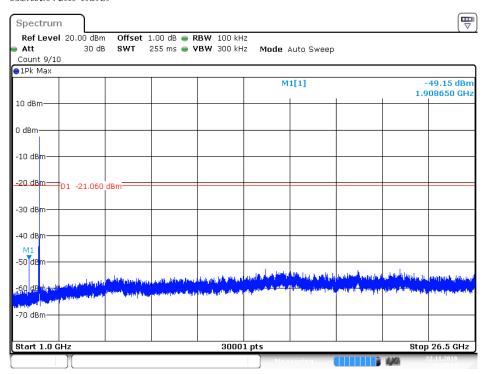
Test Result

☐ Passed
☐ Not Passed

Comment: 3V DC



Date: 22 NOV 2018 16:19:59



Date: 22 NOV 2018 16:20:10



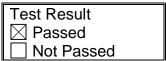
## 7.6 100kHz Bandwidth of band edges

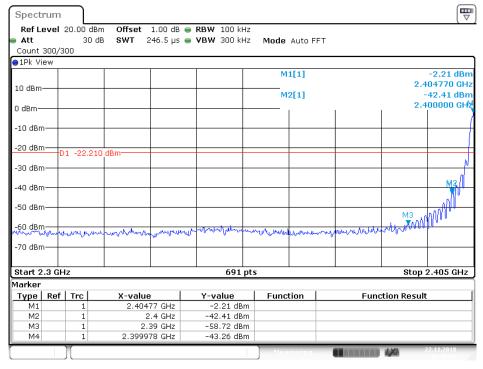
EUT: Door Lock

Op Condition: Operated, TX Mode (2405MHz)

Test Specification: FCC15.247(d), Conducted

Comment: 3V DC





Date: 22 NO V 2018 16:15:48

Band edges	Limit
40.20 dB	> 20dB



#### 100kHz Bandwidth of band edges

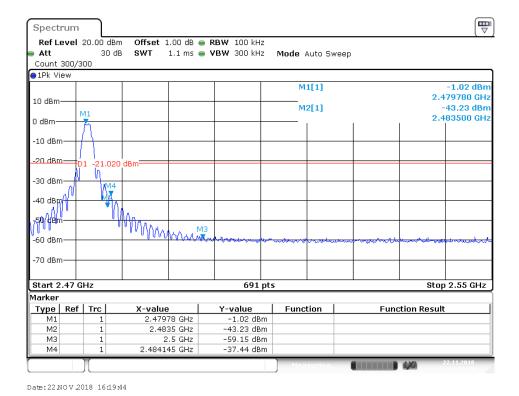
EUT: Door Lock

Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(d), Conducted

Comment: 3V DC

Test Result

☐ Passed
☐ Not Passed



Band edges	Limit
42.21 dB	> 20dB



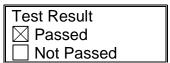
## 7.7 Power Spectral Density

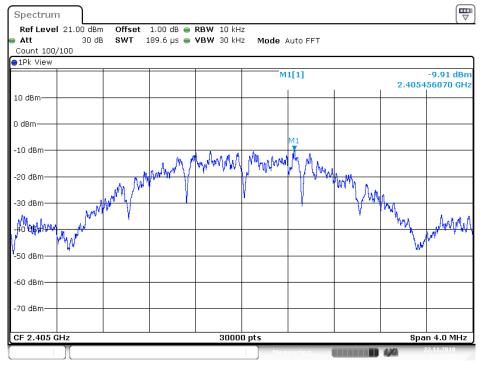
EUT: Door Lock

Op Condition: Operated, TX Mode (2405MHz)

Test Specification: FCC15.247(e)

Comment: 3V DC





Date: 22 NOV 2018 16:15:38

PSD	Limit
-9.91 dBm	< 8 dBm



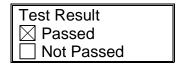
#### **Power Spectral Density**

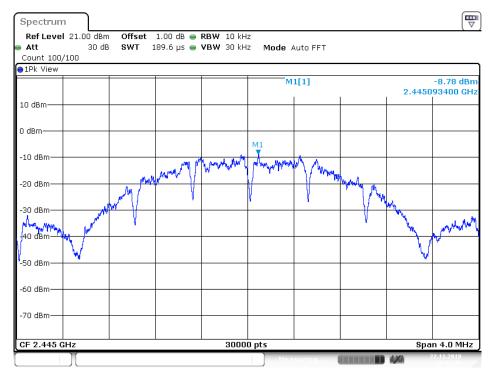
EUT: Door Lock

Op Condition: Operated, TX Mode (2445MHz)

Test Specification: FCC15.247(e)

Comment: 3V DC





Date: 22 NO V 2018 16:17:47

PSD	Limit
-8.78 dBm	< 8 dBm



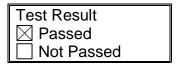
### **Power Spectral Density**

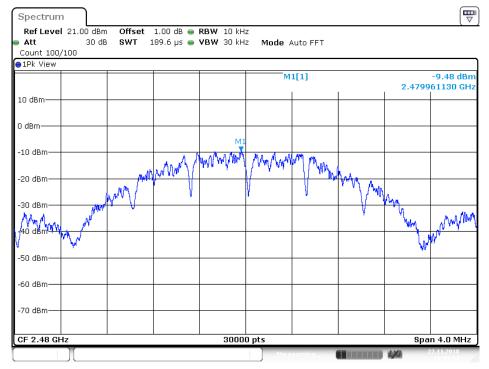
EUT: Door Lock

Op Condition: Operated, TX Mode (2480MHz)

Test Specification: FCC15.247(e)

Comment: 3V DC





Date: 22 NO V 2018 16:19:35

PSD	Limit
-9.48 dBm	< 8 dBm

Report Number: 60.790.18.051.01R02



### 7.8 Antenna Requirement

EUT: Door Lock

Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)

Comment: 3V DC

Test Result			
□ Passed			
☐ Not Passed			

#### Limit

For intentional device, according to FCC Title 47 Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC Title 47 Part 15.247(b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Connector Construction**

The antenna used in this product is integrated antenna on PCB, and the maximum gain of this antenna is 0.0 dBi.



## 8 Appendix A - General Product Information

#### Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as:

#### Step a)

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR

>> The fundamental frequency of the EUT is 2405-2480MHz, the test separation distance is ≤ 50mm. (Manufacturer specified the separation distance is: 20mm)

#### Step a)

- >> Numeric threshold (2405MHz), mW / 20mm \*  $\sqrt{2.402}$ GHz  $\leq 3.0$  Numeric threshold (2405MHz)  $\leq 38.713$ mW
- >> Numeric threshold (2445MHz), mW / 20mm \*  $\sqrt{2.440}$ GHz  $\leq 3.0$  Numeric threshold (2445MHz)  $\leq 38.411$ mW
- >> Numeric threshold (2480MHz), mW / 20mm \*  $\sqrt{2.480}$ GHz  $\leq 3.0$  Numeric threshold (2480MHz)  $\leq 38.100$ mW
- >> The power of EUT measured (2405MHz) is: 2.03dBm = 1.596mW The power of EUT measured (2445MHz) is: 2.04dBm = 1.600mW The power of EUT measured (2480MHz) is: 2.34dBm = 1.714mW

Which is smaller than the Numeric threshold. Therefore, the device is exempt from stand-alone SAR test requirements.



#### **General Product Information**

#### **Declaration letter of model difference**



To:

TÜV SÜD Hong Kong Limited

Attention:

Mr. Edmond Fung

From:

Audy Tse

Date:

January 21, 2019

Fax No:

Total Page (Cover Included):

Project No.:

Subject:

**Declaration letter** 

We: Mobile Technologies Inc.

Officially notify TÜV SÜV Hong Kong Limited that the Door Lock and Plunger Lock have the same technical construction including circuit diagram and electrical construction, with Digital Lock, Glass Lock. The difference lies only in the outlook/color, PCB Layout, components, component layout and mechanical construction of the different models.

Model A: Door Lock

Model B: Plunger Lock

Model C: Glass Lock

Product: Digital Lock

Applicant:

Jan 21.2019

(Date)

(Applicant's authorized signature and company Chop)