

# **FCC Test Report**

# (PART 24)

Report No.: RF170808C08-8

FCC ID: VQK-F01K

Test Model: F-01K

Received Date: Aug. 08, 2017

**Test Date:** Sep. 20, 2017 ~ Sep. 28, 2017

**Issued Date:** Oct. 06, 2017

Applicant: FUJITSU CONNECTED TECHNOLOGIES Ltd.

Address: 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588, Japan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

(R.O.C)

Test Location (1): No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan

Hsien 333, Taiwan, R.O.C.

Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,

R.O.C





This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.



## **Table of Contents**

Re	Release Control Record3					
1	Cer	tificate of Conformity	. 4			
2	Sun	nmary of Test Results	. 5			
	2.1	Measurement Uncertainty	. 5			
		Test Site And Instruments				
3	Gen	neral Information	. 8			
-		General Description of EUT				
		Configuration of System under Test				
	5.2	3.2.1 Description of Support Units				
	3.3	Test Mode Applicability and Tested Channel Detail				
		EUT Operating Conditions				
		General Description of Applied Standards				
4	Tes	t Types and Results	12			
		Output Power Measurement				
	4.1	4.1.1 Limits of Output Power Measurement				
		4.1.2 Test Procedures				
		4.1.3 Test Setup				
		4.1.4 Test Results				
	4.2	Frequency Stability Measurement				
		4.2.1 Limits of Frequency Stability Measurement				
		4.2.2 Test Procedure	15			
		4.2.3 Test Setup	15			
		4.2.4 Test Results				
	4.3	Occupied Bandwidth Measurement				
		4.3.1 Test Procedure				
		4.3.2 Test Setup				
		4.3.3 Test Result				
	4.4	Band Edge Measurement				
		4.4.1 Limits of Band Edge Measurement				
		4.4.2 Test Setup				
		4.4.4 Test Results				
	45	Peak to Average Ratio				
	7.0	4.5.1 Limits of Peak to Average Ratio Measurement				
		4.5.2 Test Setup				
		4.5.3 Test Procedures				
		4.5.4 Test Results				
	4.6	Conducted Spurious Emissions	23			
		4.6.1 Limits of Conducted Spurious Emissions Measurement	23			
		4.6.2 Test Setup				
		4.6.3 Test Procedure				
		4.6.4 Test Results				
	4.7	Radiated Emission Measurement				
		4.7.1 Limits of Radiated Emission Measurement				
		4.7.2 Test Procedure				
		4.7.4 Test Setup				
		4.7.5 Test Results				
_	D' - 4					
	Pictures of Test Arrangements					
Αŗ	pen	dix – Information on the Testing Laboratories	33			



## **Release Control Record**

I	ssue No.	Description	Date Issued
F	RF170808C08-8	Original Release	Oct. 06, 2017



### 1 Certificate of Conformity

**Product:** Smart Phone

Brand: FUJITSU

Test Model: F-01K

Sample Status: Identical Prototype

Applicant: FUJITSU CONNECTED TECHNOLOGIES Ltd.

**Test Date:** Sep. 20, 2017 ~ Sep. 28, 2017

Standards: FCC Part 24, Subpart E

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : , Date: Oct. 06, 2017

Rona Chen / Specialist

**Approved by:** , **Date:** Oct. 06, 2017

David Huang / Project Engineer



## 2 Summary of Test Results

	Applied Standard: FCC Part 24 & Part 2						
FCC Clause	Test Item	Result	Remarks				
2.1046 24.232	Fitective Isotropic Radiated Power		Meet the requirement of limit.				
2.1046 24.232(d) Peak to Average Ratio  2.1055 24.235 Frequency Stability  2.1049 24.238(b) Occupied Bandwidth		Pass	Meet the requirement of limit.				
		Pass	Meet the requirement of limit.				
		Pass	Meet the requirement of limit.				
24.238(b)	Band Edge Measurements	Pass	Meet the requirement of limit.				
2.1051 24.238	Conducted Spurious Emissions	Pass	Meet the requirement of limit.				
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -26.84 dB at 5550.60 MHz.				

## 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Padiated Emissions up to 1 CHz	30 MHz ~ 200 MHz	2.0153 dB
Radiated Emissions up to 1 GHz	200 MHz ~1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
Radiated Effissions above 1 GHz	18 GHz ~ 40 GHz	1.1508 dB



## 2.2 Test Site And Instruments

Description & Manaufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Jul. 05, 2017	Jul. 04, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 13, 2016	Dec. 12, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 16, 2016	Dec. 15, 2017
HORN Antenna ETS-Lindgren	3117	00143293	Dec. 29, 2016	Dec. 28, 2017
Double Ridge Guide Horn Antenna EMCO	3115	5619	Dec. 27, 2016	Dec. 26, 2017
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 13, 2016	Dec. 12, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 14, 2016	Dec. 13, 2017
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 07, 2017	Jul. 06, 2018
Loop Antenna	HLA 6121	45745	May 19, 2017	May 18, 2018
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 19, 2016	Oct. 18, 2017
Preamplifier Agilent	310N	187226	Jun. 23, 2017	Jun. 22, 2018
Preamplifier Agilent	83017A	MY39501357	Jun. 23, 2017	Jun. 22, 2018
Power Meter Anritsu	ML2495A	1012010	Aug. 15, 2017	Aug. 14, 2018
Power Sensor Anritsu	MA2411B	1315050	Aug. 15, 2017	Aug. 14, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 23, 2017	Jun. 22, 2018
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jun. 28, 2017	Jun. 27, 2019
Radio Communication Analyzer Anritsu	MT8820C	6201168830	Oct. 31, 2016	Oct. 30, 2017



- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
  - 2. The test was performed in HsinTien Chamber 1.
  - 3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
  - 4. The FCC Designation Number is TW0011. The number will be varied with the Lab location and scope as attached.
  - 5. The IC Site Registration No. is IC7450I-1.



## 3 General Information

## 3.1 General Description of EUT

Product	Smart Phone		
Brand	FUJITSU		
Test Model	F-01K		
Status of EUT	Identical Prototype		
Dower Cumply Dating	5.0 Vdc (adapter or host equipment)		
Power Supply Rating	3.75 Vdc (Li-ion battery)		
Modulation Type	ulation Type GSM/GPRS GMSK		
Frequency Range	GSM/GPRS	1850.2 ~ 1909.8 MHz	
Max. EIRP Power	GSM/GPRS	767.36 mW	
<b>Emission Designator</b>	GSM/GPRS	245KGXW	
Antenna Type	Fixed Internal Antenna		
Accessory Device Refer to Note as below			
Data Cable Supplied	Refer to Note as below		

### Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Dotton/	FUJITSU CONNECTED	CA54310-0067	3.75 Vdc, 2850 mAh
Battery	TECHNOLOGIES Ltd.		

2. The EUT uses following adapter which provided by client as support unit.

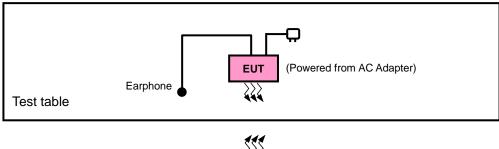
Product	Brand	Model	Description
Adoptor	NTT docomo	AC Adapter 06	I/P: 100-240Vac, 0.8A,
Adapter			O/P: 5.0Vdc, 3.0A

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



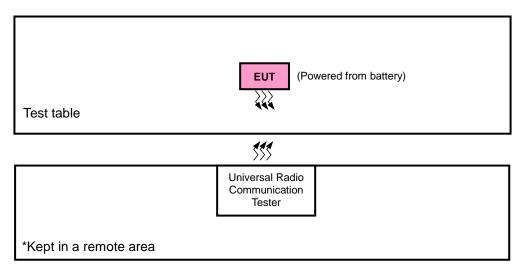
## 3.2 Configuration of System under Test

#### <Radiated Emission Test>





#### <E.I.R.P. Test>



## 3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Earphone	N/A	N/A	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

#### Note:

1. All power cords of the above support units are non-shielded (1.8m).



## 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports.

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	EIRP	Radiated Emission
GSM	Z-plane	Z-axis

#### **GSM**

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	512 to 810	512, 661, 810	GSM
-	Frequency Stability	512 to 810	512, 810	GSM
-	Occupied Bandwidth	512 to 810	512, 661, 810	GSM
-	Band Edge	512 to 810	512, 810	GSM
-	Peak to Average Ratio	512 to 810	512, 661, 810	GSM
-	Condcudeted Emission	512 to 810	512, 661, 810	GSM
-	Radiated Emission	512 to 810	512, 661, 810	GSM

## **Test Condition:**

Test Item	Environmental Conditions	Input Power	Tested By	
EIRP	26 deg. C, 58 % RH	3.75 Vdc	Carlos Chen	
Frequency Stability	26 deg. C, 58 % RH	3.75 Vdc	Carlos Chen	
Occupied Bandwidth	26 deg. C, 58 % RH	3.75 Vdc	Carlos Chen	
Band Edge	26 deg. C, 58 % RH	3.75 Vdc	Carlos Chen	
Peak to Average Ratio	26 deg. C, 58 % RH	3.75 Vdc	Carlos Chen	
Condcudeted Emission	26 deg. C, 58 % RH	3.75 Vdc	Carlos Chen	
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Harry Hsueh	



### 3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

### 3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2
FCC 47 CFR Part 24
KDB 971168 D01 Power Meas License Digital Systems v02r02
ANSI/TIA/EIA-603-D 2010

**NOTE:** All test items have been performed and recorded as per the above standards.



#### 4 Test Types and Results

### 4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 2 watts e.i.r.p.

#### 4.1.2 Test Procedures

### **EIRP / ERP Measurement:**

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, 5 MHz for WCDMA and CDMA, and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15 dBi.

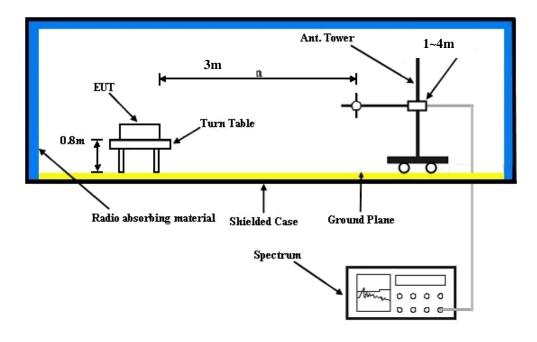
#### **Conducted Power Measurement:**

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



## 4.1.3 Test Setup

## **EIRP / ERP Measurement:**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### **Conducted Power Measurement:**





## 4.1.4 Test Results

# **Conducted Output Power (dBm)**

Band	GSM1900				
Channel	512	661	810		
Frequency (MHz)	1850.2	1880.0	1909.8		
GSM (GMSK, 1Tx-slot)	29.62	29.59	29.53		
GPRS (GMSK, 1Tx-slot)	29.60	29.58	29.52		
GPRS (GMSK, 2Tx-slot)	26.22	26.12	26.00		
GPRS (GMSK, 3Tx-slot)	24.32	24.21	24.11		
GPRS (GMSK, 4Tx-slot)	22.94	22.86	22.80		
DTM (GMSK, 2Tx-slot)	26.05	26.02	25.98		
DTM (GMSK, 3Tx-slot)	24.27	24.20	24.11		

## **EIRP Power (dBm)**

	· · ·			GSM			
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
	512	1850.2	-9.34	38.19	28.85	767.36	
	661	1880.0	-9.89	38.70	28.81	760.33	Н
Z	810	1909.8	-10.64	39.35	28.71	743.02	
	512	1850.2	-13.66	38.48	24.82	303.39	
	661	1880.0	-13.82	38.59	24.77	299.92	V
	810	1909.8	-14.12	38.87	24.75	298.54	



## 4.2 Frequency Stability Measurement

#### 4.2.1 Limits of Frequency Stability Measurement

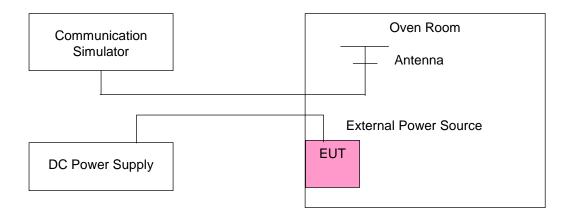
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 4.2.2 Test Procedure

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5$  °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

#### 4.2.3 Test Setup





## 4.2.4 Test Results

## Frequency Error vs. Voltage

Voltage	Low Channel		High C	Limit (ppm)	
(Volts)	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	(Irpany
3.9	1850.200002	0.001	1909.800003	0.001	2.5
3.51	1850.200002	0.001	1909.800002	0.001	2.5
4.29	1850.200001	0.001	1909.800002	0.001	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

# Frequency Error vs. Temperature

Temp. (℃)	Low C	hannel	High C	Limit (ppm)	
	Frequency (MHz) Frequency Error (ppm)		Frequency (MHz) Frequency Err (ppm)		(pp)
-30	1850.200001	0.000	1909.800002	0.001	2.5
-20	1850.200000	0.000	1909.800001	0.000	2.5
-10	1850.200002	0.001	1909.800004	0.002	2.5
0	1850.200001	0.001	1909.800003	0.001	2.5
10	1850.200003	0.001	1909.800004	0.002	2.5
20	1850.199997	-0.002	1909.799998	-0.001	2.5
30	1850.199999	-0.001	1909.799999	-0.001	2.5
40	1850.199998	-0.001	1909.799999	0.000	2.5
50	1850.199996	-0.002	1909.799998	-0.001	2.5
55	1850.199997	-0.002	1909.799999	-0.001	2.5

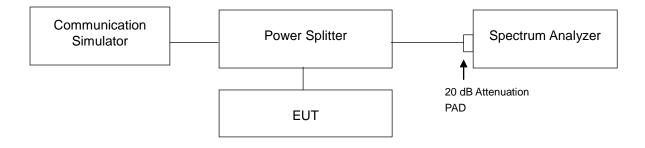


### 4.3 Occupied Bandwidth Measurement

#### 4.3.1 Test Procedure

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

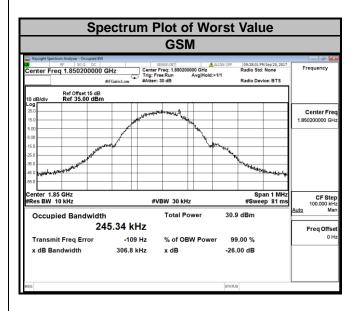
## 4.3.2 Test Setup





## 4.3.3 Test Result

Channel	Frequency (MHz)	99 % Occupied Bandwidth (kHz) GSM
512	1850.2	245.34
661	1880.0	245.19
810	1909.8	243.71



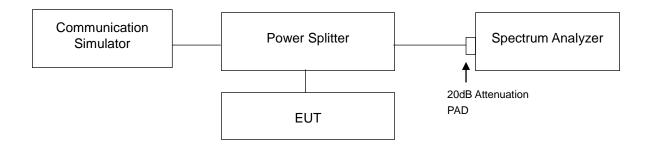


### 4.4 Band Edge Measurement

#### 4.4.1 Limits of Band Edge Measurement

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 4.4.2 Test Setup

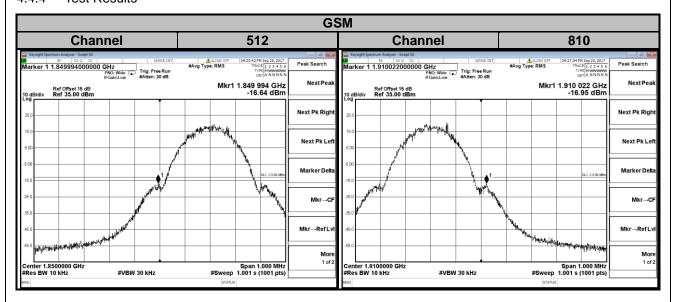


#### 4.4.3 Test Procedures

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 10 kHz and VB of the spectrum is 30 kHz (GSM/GPRS).
- c. Record the max trace plot into the test report.



## 4.4.4 Test Results



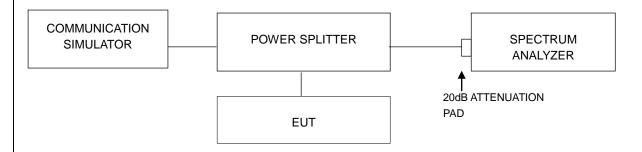


### 4.5 Peak to Average Ratio

#### 4.5.1 Limits of Peak to Average Ratio Measurement

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.

### 4.5.2 Test Setup



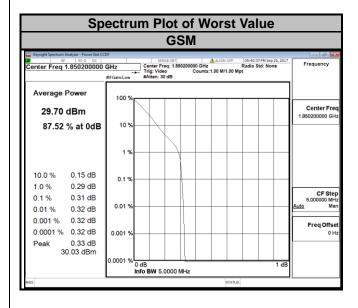
#### 4.5.3 Test Procedures

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1 %.



## 4.5.4 Test Results

Channel	Frequency	Peak to Average Ratio (dB)
	(MHz)	GSM
512	1850.2	0.31
661	1880.0	0.31
810	1909.8	0.30



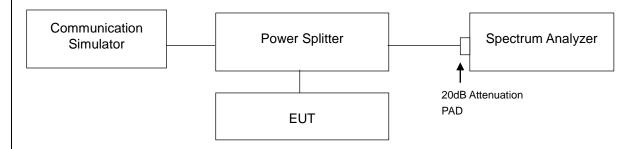


### 4.6 Conducted Spurious Emissions

#### 4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13 dBm.

#### 4.6.2 Test Setup

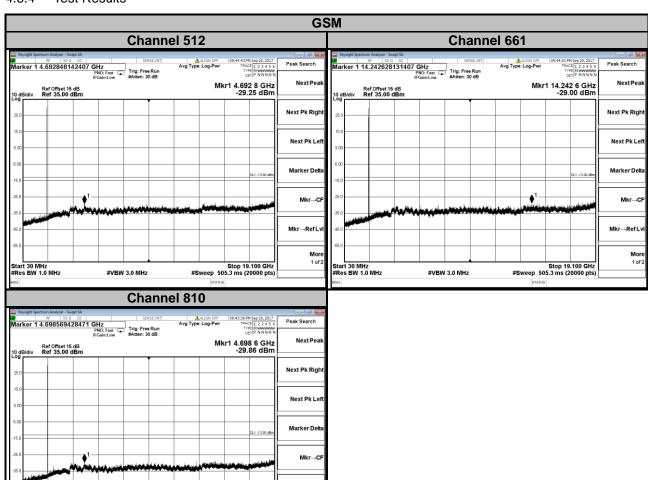


#### 4.6.3 Test Procedure

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9 kHz to 9 GHz. 20 dB attenuation pad is connected with spectrum. RBW=1 MHz and VBW=3 MHz is used for conducted emission measurement.



### 4.6.4 Test Results



Stop 19.100 GHz #Sweep 505.3 ms (20000 pts)

#VBW 3.0 MHz



#### 4.7 Radiated Emission Measurement

#### 4.7.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit is equal to -13 dBm.

#### 4.7.2 Test Procedure

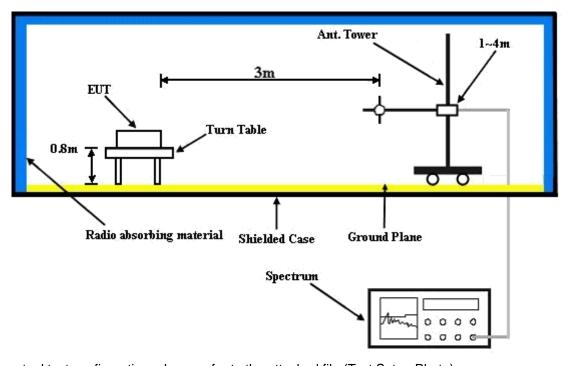
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15 dBi.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

#### 4.7.3 Deviation from Test Standard

No deviation.

#### 4.7.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).



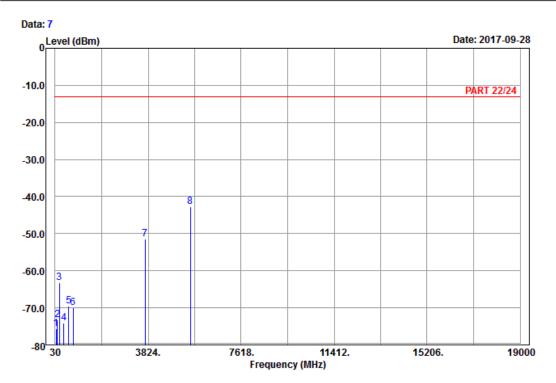
## 4.7.5 Test Results

GSM:

**Low Channel** 



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : PCS 1900\_Link\_CH512

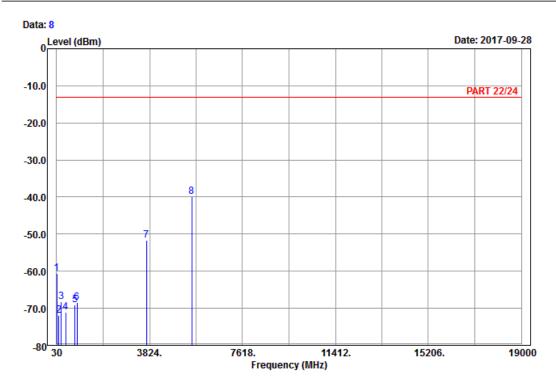
Tested by: Karl Lee

			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
	_						
_	MHz	dBm	dBm	dBm	dB	dB	
1	71.85	-75.61	-63.09	-13.00	-62.61	-12.52	Peak
2	126.66	-73.19	-65.36	-13.00	-60.19	-7.83	Peak
3	199.29	-63.17	-56.99	-13.00	-50.17	-6.18	Peak
4	379.10	-74.04	-70.21	-13.00	-61.04	-3.83	Peak
5	582.80	-69.50	-69.20	-13.00	-56.50	-0.30	Peak
6	766.20	-70.08	-69.86	-13.00	-57.08	-0.22	Peak
7	3700.40	-51.38	-67.26	-13.00	-38.38	15.88	Peak
8 pp	5550.60	-42.69	-63.03	-13.00	-29.69	20.34	Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : PCS 1900\_Link\_CH512

Tested by: Karl Lee

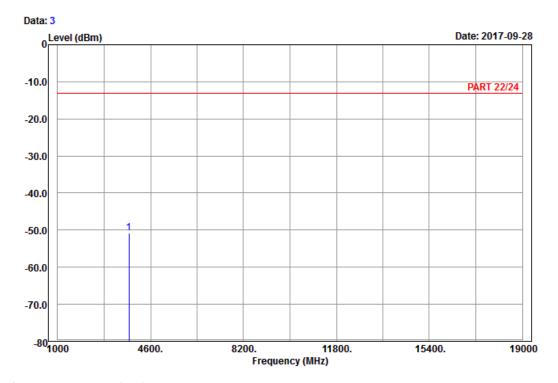
	Freq	Level	Read Level	Limit Line		Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	32.16	-60.55	-49.79	-13.00	-47.55	-10.76	Peak
2	114.24	-71.97	-63.34	-13.00	-58.97	-8.63	Peak
3	212.52	-68.33	-62.32	-13.00	-55.33	-6.01	Peak
4	393.80	-71.12	-68.07	-13.00	-58.12	-3.05	Peak
5	777.40	-69.05	-69.59	-13.00	-56.05	0.54	Peak
6	864.90	-68.38	-70.27	-13.00	-55.38	1.89	Peak
7	3700.40	-51.73	-67.61	-13.00	-38.73	15.88	Peak
8 pp	5550.60	-39.84	-60.18	-13.00	-26.84	20.34	Peak



### **Middle Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : PCS 1900\_Link\_CH661

Tested by: Karl Lee

Read Limit Over

Freq Level Line Limit Factor Remark

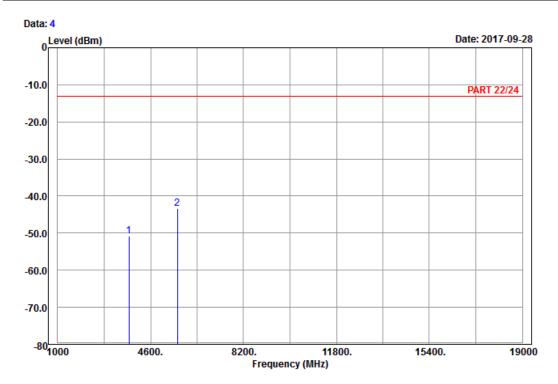
MHz dBm dBm dB dB

1 pp 3760.00 -50.68 -66.82 -13.00 -37.68 16.14 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : PCS 1900\_Link\_CH661

Tested by: Karl Lee

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

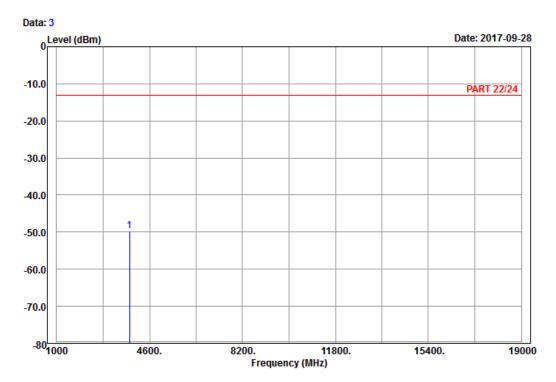
1 3760.00 -50.88 -67.02 -13.00 -37.88 16.14 Peak 2 pp 5640.00 -43.46 -63.93 -13.00 -30.46 20.47 Peak



## **High Channel**



# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : PCS 1900\_Link\_CH810

Tested by: Karl Lee

Read Limit Over

Freq Level Line Limit Factor Remark

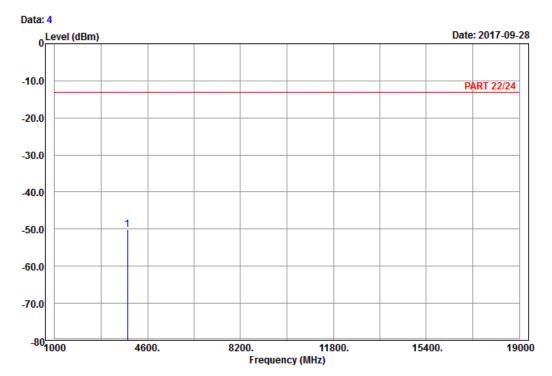
MHz dBm dBm dB dB

1 pp 3819.60 -49.62 -66.12 -13.00 -36.62 16.50 Peak





# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : PCS 1900\_Link\_CH810

Tested by: Karl Lee

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

1 pp 3819.60 -50.08 -66.58 -13.00 -37.08 16.50 Peak



5 Pictures of Test Arrangements	
Please refer to the attached file (Test Setup Photo).	
	ļ



### Appendix - Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-2-26052180 Fax: 886-2-26051924 Tel: 886-3-6668565 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <a href="mailto:service.adt@tw.bureauveritas.com">service.adt@tw.bureauveritas.com</a>
Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

The address and road map of all our labs can be found in our web site also.

--- END ---