

## Partial FCC Test Report

### (PART 22)

**Report No.:** RF171226C11

**FCC ID:** KA2WP902A1

**Test Model:** DWP-902

**Received Date:** Dec. 26, 2017

**Test Date:** Jan. 20, 2018 ~ Jan. 24, 2018

**Issued Date:** Feb. 02, 2018

**Applicant:** D-Link Corporation

**Address:** 289 Xinhua 3rd RD Neihu district Taipei Taiwan

**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

**FCC Registration /  
Designation Number:** 427177 / TW0011



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### Release Control Record

Issue No.	Description	Date Issued
RF171226C11	Original Release	Feb. 02, 2018

## 1 Certificate of Conformity

**Product:** LTE Router

**Brand:** D-Link Corporation

**Test Model:** DWP-902

**Sample Status:** Identical Prototype

**Applicant:** D-Link Corporation

**Test Date:** Jan. 20, 2018 ~ Jan. 24, 2018

**Standards:** FCC Part 22, Subpart H

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 RF characteristics under the conditions specified in this report.

**Prepared by :**



**Date:**

Feb. 02, 2018

Vera Huang / Specialist

**Approved by :**



**Date:**

Feb. 02, 2018

Dylan Chiou / Project Engineer

## 2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective Radiated Power	Pass	Meet the requirement of limit.
---	Peak to Average Ratio	N/A	Refer to Note
2.1055 22.355	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
22.917	Band Edge Measurements	N/A	Refer to Note
2.1051 22.917	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -38.35 dB at 200.37 MHz.

### Note:

Only test items for Radiated Emissions and Effective Radiated Power tests were performed for this report. For other test data, please refer to TTL Report No.: B15W50341-FCC-RF-Rev1 for module (Name: Wireless Modules, Model: EM7455).

### 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	Expanded Uncertainty (k=2) ( $\pm$ )
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

## 2.2 Test Site and Instruments

Description & Manufacturer	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	Jan. 11, 2018	Jan. 10, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 06, 2017	Dec. 05, 2018
HORN Antenna ETS-Lindgren	3117	00143293	Jun. 26, 2017	Jun. 25, 2018
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 30, 2017	Nov. 29, 2018
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 06, 2017	Dec. 05, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 01, 2017	Nov. 30, 2018
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 07, 2017	Jul. 06, 2018
Bluetooth Tester	CBT	100980	Jun. 28, 2017	Jun. 27, 2019
Loop Antenna	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 24, 2017	Oct. 23, 2018
Preamplifier Agilent	310N	187226	Jun. 23, 2017	Jun. 22, 2018
Preamplifier Agilent	83017A	MY39501357	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 26, 2017	Jun. 25, 2018
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 26, 2017	Jun. 25, 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
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 08, 2016	Jul. 07, 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 IC Site Registration No. is IC7450I-1.

### 3 General Information

#### 3.1 General Description of EUT

<b>Product</b>	LTE Router	
<b>Brand</b>	D-Link Corporation	
<b>Test Model</b>	DWP-902	
<b>Status of EUT</b>	Identical Prototype	
<b>Power Supply Rating</b>	54 Vdc (Adapter or POE)	
<b>Modulation Type</b>	LTE	QPSK, 16QAM
<b>Frequency Range</b>	LTE 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
<b>Max. ERP Power</b>	LTE 5 (Channel Bandwidth: 1.4 MHz)	801.31 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	812.46 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	807.24 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	823.76 mW
<b>Antenna Type</b>	Internal PCB Antenna	
<b>Accessory Device</b>	Refer to Note as below	
<b>Data Cable Supplied</b>	Refer to Note as below	

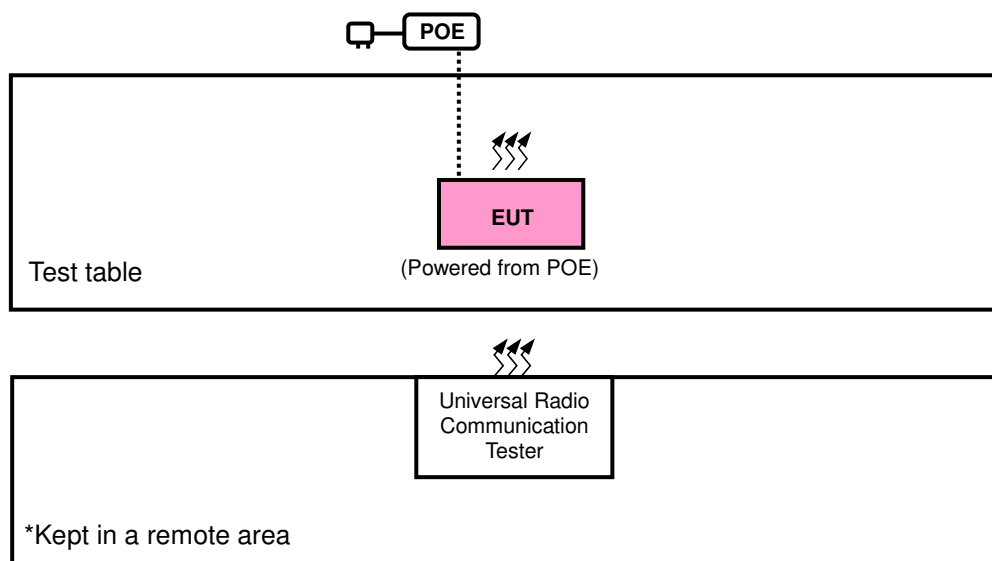
Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	Gospell Digital Technology Co. Ltd.	G0753-540-060	I/P: 100-240 Vac, 50/60 Hz, 0.75 A O/P: 54 Vdc, 0.6 A 1.2 m non-shielded cable w/o core
POE	D-Link	DPE-301GI	54 Vdc, 0.6 A
WWAN Module	Sierra	EM7455	--

2. 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



#### 3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

### 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	ERP	Radiated Emission
LTE Band 5	X-plane	X-axis

#### LTE Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	20450 to 20600	20450, 20525, 20600	10 MHz	QPSK	1 RB / 0 RB Offset

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

#### Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee

### 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 22**

**KDB 971168 D01 Power Meas License Digital Systems v02r02**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

**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 7 watts e.r.p.

#### 4.1.2 Test Procedures

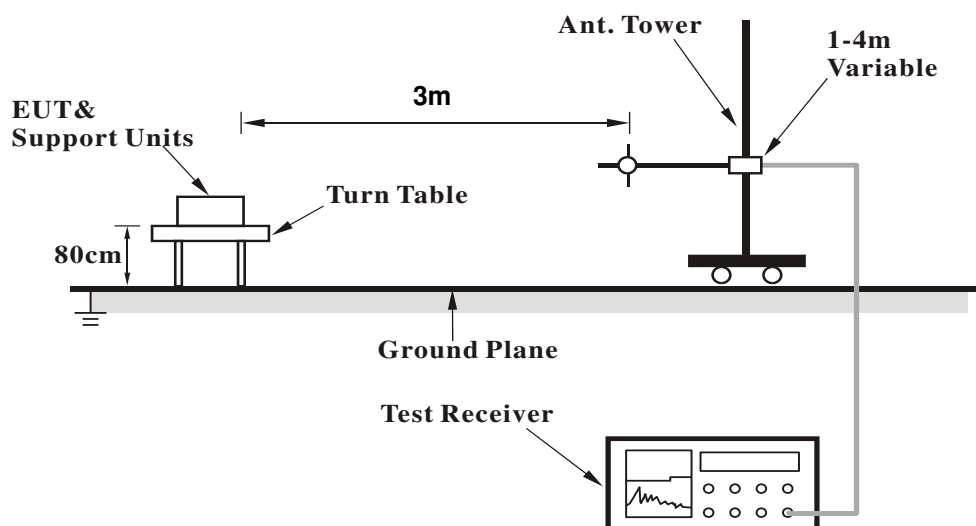
##### **EIRP / ERP Measurement:**

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, and 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 (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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.
- 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.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$ .

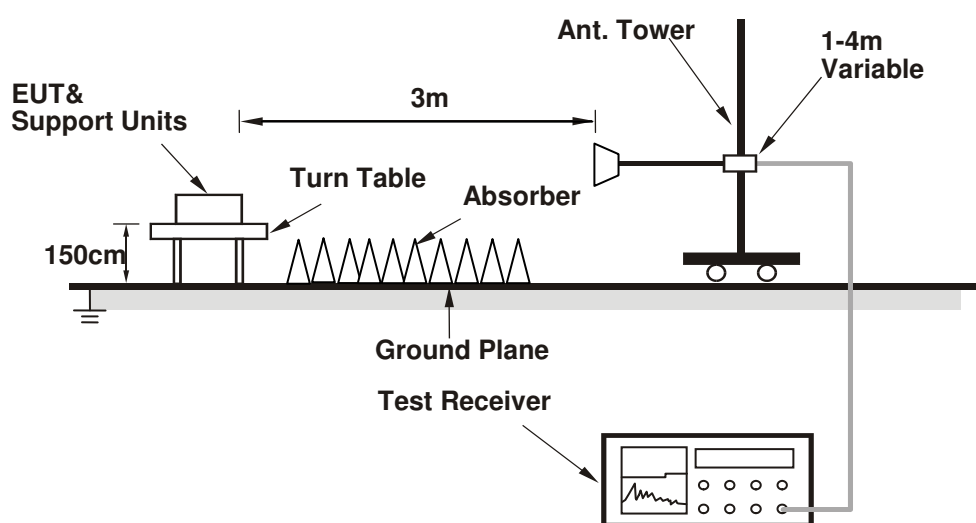
#### 4.1.3 Test Setup

##### EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

#### 4.1.4 Test Results

##### ERP Power (dBm)

LTE Band 5							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20407	824.7	-0.02	31.208	29.04	801.31	H
	20525	836.5	-0.14	31.3	29.01	796.16	
	20643	848.3	-0.05	31.222	29.02	798.36	
	20407	824.7	-5.32	31.504	24.03	253.16	V
	20525	836.5	-4.95	31.117	24.02	252.17	
	20643	848.3	-5.71	31.922	24.06	254.80	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	20407	824.7	-1.04	31.208	28.02	633.58	H
	20525	836.5	-1.13	31.3	28.02	633.87	
	20643	848.3	-1.05	31.222	28.02	634.16	
	20407	824.7	-6.31	31.504	23.04	201.56	V
	20525	836.5	-5.90	31.117	23.07	202.63	
	20643	848.3	-6.68	31.922	23.09	203.80	

LTE Band 5							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20415	825.5	0.04	31.208	29.10	812.46	H
	20525	836.5	-0.06	31.3	29.09	810.96	
	20635	847.5	-0.02	31.222	29.05	803.90	
	20415	825.5	-5.31	31.504	24.04	253.75	V
	20525	836.5	-4.94	31.117	24.03	252.76	
	20635	847.5	-5.75	31.922	24.02	252.46	
Channel Bandwidth: 3 MHz / 16QAM							
X	20415	825.5	-0.94	31.208	28.12	648.34	H
	20525	836.5	-1.05	31.3	28.10	645.65	
	20635	847.5	-1.04	31.222	28.03	635.62	
	20415	825.5	-6.26	31.504	23.09	203.89	V
	20525	836.5	-5.95	31.117	23.02	200.31	
	20635	847.5	-6.71	31.922	23.06	202.40	

LTE Band 5							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20425	826.5	-0.05	31.208	29.01	795.79	H
	20525	836.5	-0.08	31.3	29.07	807.24	
	20625	846.5	-0.04	31.222	29.03	800.20	
	20425	826.5	-5.32	31.504	24.03	253.16	V
	20525	836.5	-4.91	31.117	24.06	254.51	
	20625	846.5	-5.70	31.922	24.07	255.39	
Channel Bandwidth: 5 MHz / 16QAM							
X	20425	826.5	-1.02	31.208	28.04	636.50	H
	20525	836.5	-1.04	31.3	28.11	647.14	
	20625	846.5	-1.01	31.222	28.06	640.03	
	20425	826.5	-6.31	31.504	23.04	201.56	V
	20525	836.5	-5.95	31.117	23.02	200.31	
	20625	846.5	-6.75	31.922	23.02	200.54	

LTE Band 5							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20450	829.0	0.10	31.208	29.16	823.76	H
	20525	836.5	0.00	31.3	29.15	822.24	
	20600	844.0	0.00	31.222	29.07	807.61	
	20450	829.0	-5.16	31.504	24.19	262.66	V
	20525	836.5	-4.86	31.117	24.11	257.45	
	20600	844.0	-5.68	31.922	24.09	256.57	
Channel Bandwidth: 10 MHz / 16QAM							
X	20425	826.5	-0.90	31.208	28.16	654.33	H
	20525	836.5	-0.98	31.3	28.17	656.15	
	20625	846.5	-1.03	31.222	28.04	637.09	
	20425	826.5	-6.19	31.504	23.16	207.20	V
	20525	836.5	-5.85	31.117	23.12	204.97	
	20625	846.5	-6.70	31.922	23.07	202.86	

## 4.2 Radiated Emission Measurement

### 4.2.1 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.

### 4.2.2 Test Procedure

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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.
- 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
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}.$

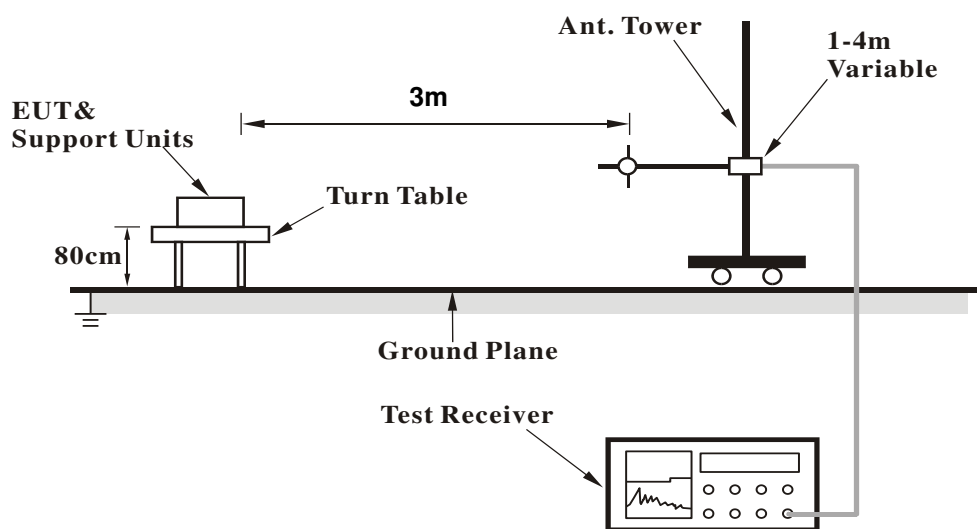
**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

### 4.2.3 Deviation from Test Standard

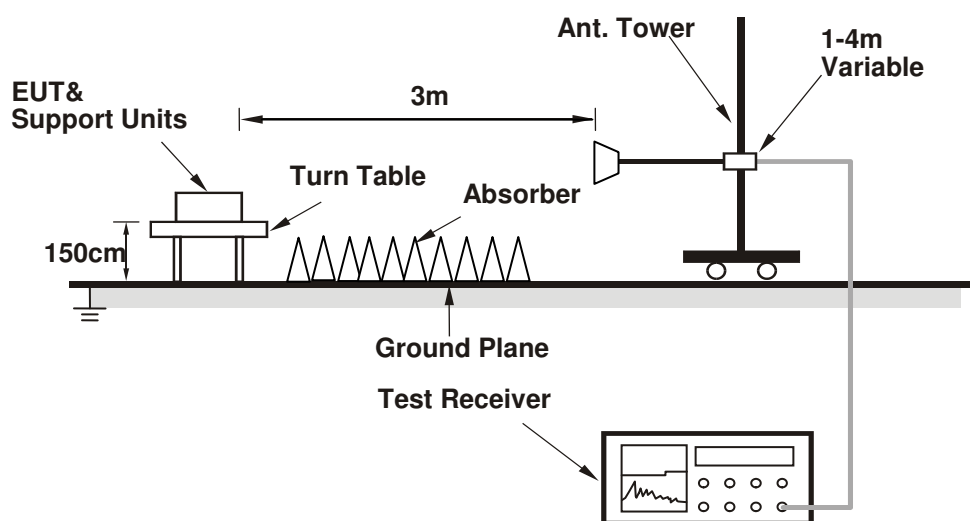
No deviation.

#### 4.2.4 Test Setup

##### <Radiated Emission below or equal 1 GHz>



##### <Radiated Emission above 1 GHz>



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

#### 4.2.5 Test Results

##### LTE Band 5

Channel Bandwidth: 10 MHz / QPSK

##### Low Channel

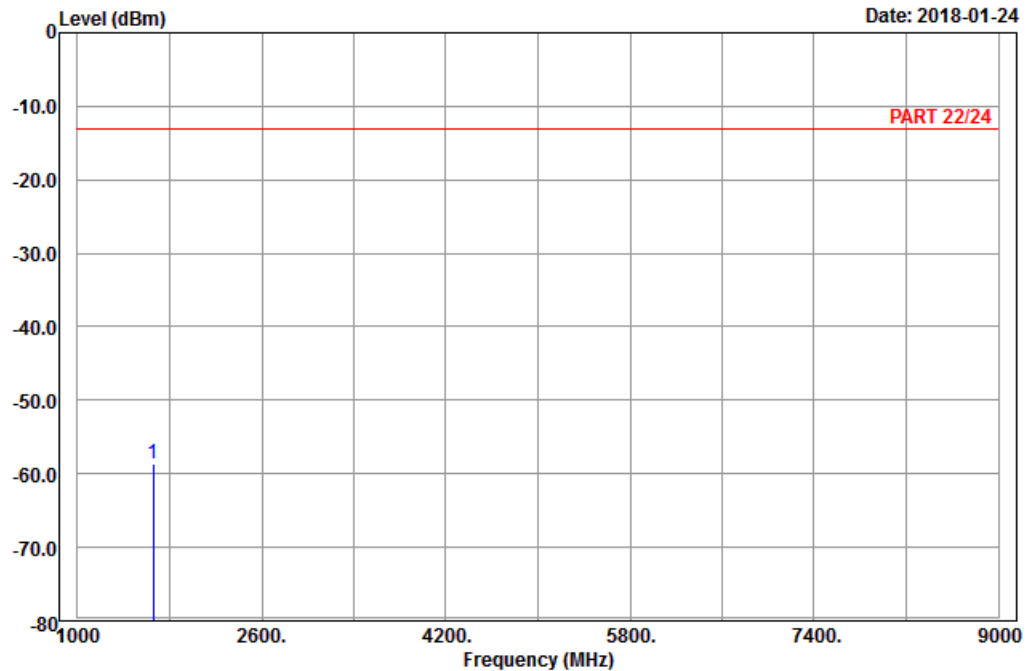


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 5

Date: 2018-01-24



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_CH20450  
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1658.00	-58.74	-66.65	-13.00	-45.74	7.91	Peak

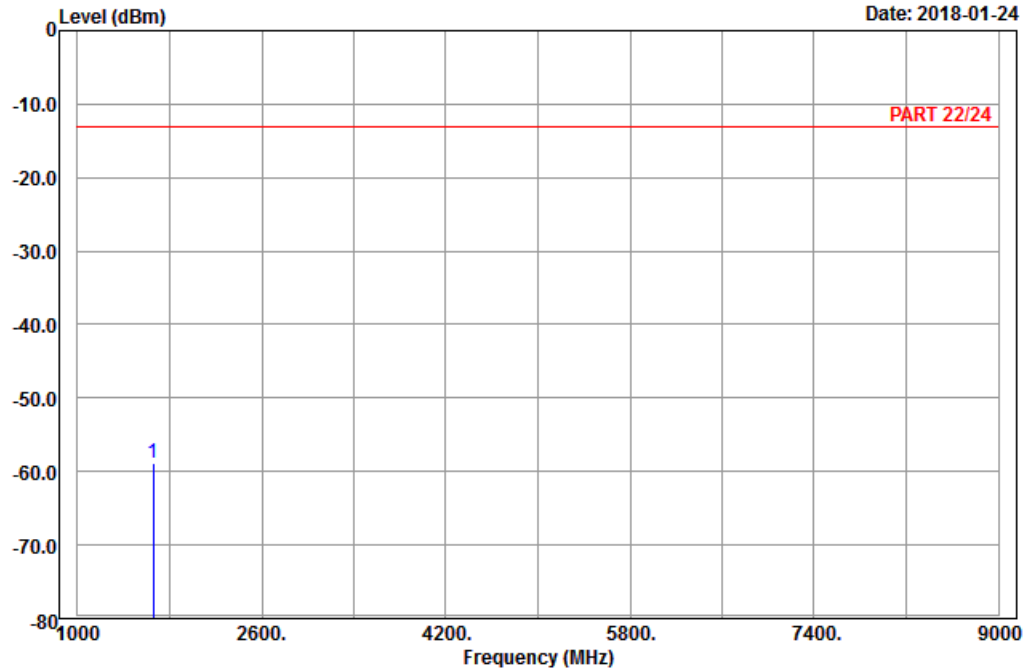


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Data: 6

Date: 2018-01-24



Site : 966 chamber 1  
Condition: PART 22/24 Vertical  
Remark : LTE\_Band 5\_Link\_CH20450  
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1658.00	-58.78	-66.69	-13.00	-45.78	7.91	Peak

# Middle Channel

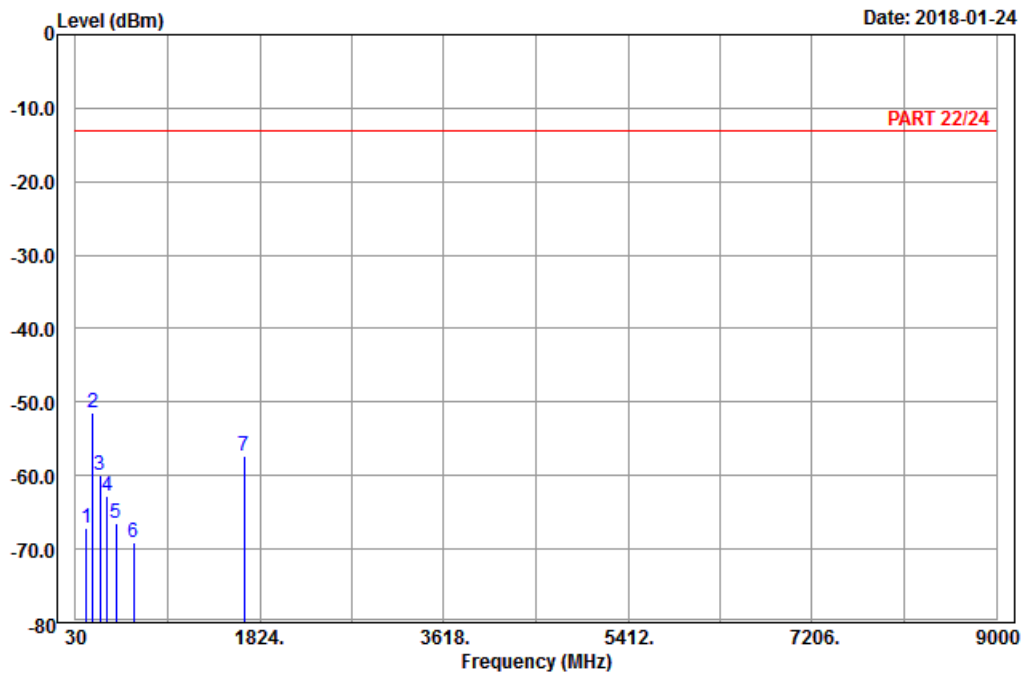


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Data: 9

Date: 2018-01-24



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 5\_Link\_CH20525  
Tested by: Karl Lee

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	133.14	-67.19	-59.53	-13.00	-54.19	-7.66	Peak
2	200.37	-51.35	-45.18	-13.00	-38.35	-6.17	Peak
3	268.41	-59.95	-54.27	-13.00	-46.95	-5.68	Peak
4	334.30	-62.78	-57.22	-13.00	-49.78	-5.56	Peak
5	420.40	-66.38	-63.19	-13.00	-53.38	-3.19	Peak
6	596.80	-69.17	-69.44	-13.00	-56.17	0.27	Peak
7	1673.00	-57.30	-65.21	-13.00	-44.30	7.91	Peak

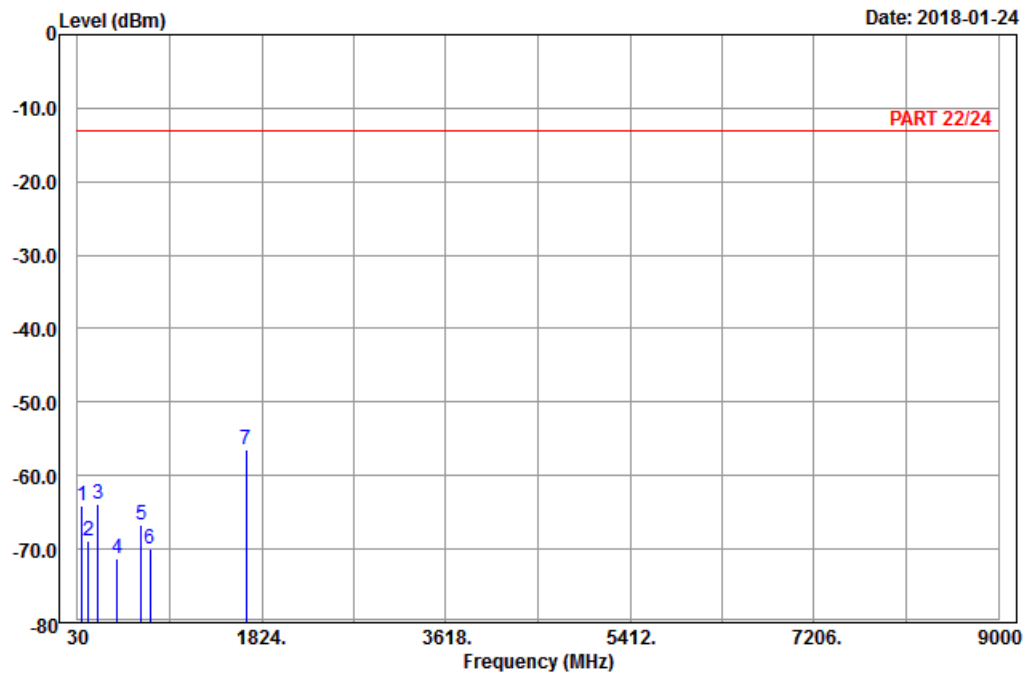


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Data: 10

Date: 2018-01-24



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_CH20525

Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	76.17	-63.99	-51.89	-13.00	-50.99	-12.10	Peak
2	139.08	-68.83	-61.14	-13.00	-55.83	-7.69	Peak
3	228.99	-63.79	-58.00	-13.00	-50.79	-5.79	Peak
4	416.20	-71.33	-68.23	-13.00	-58.33	-3.10	Peak
5	650.00	-66.75	-66.62	-13.00	-53.75	-0.13	Peak
6	738.90	-69.97	-68.86	-13.00	-56.97	-1.11	Peak
7 pp	1673.00	-56.46	-64.37	-13.00	-43.46	7.91	Peak

# High Channel

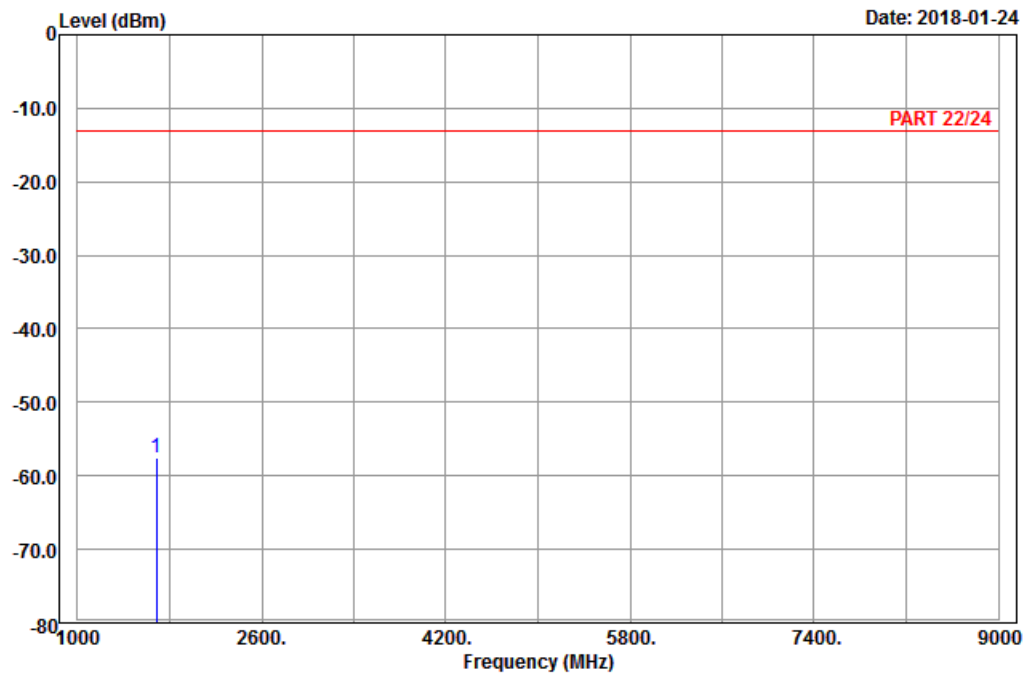


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2018-01-24



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 5\_Link\_CH20600  
Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1688.00	-57.64	-65.66	-13.00	-44.64	8.02	Peak

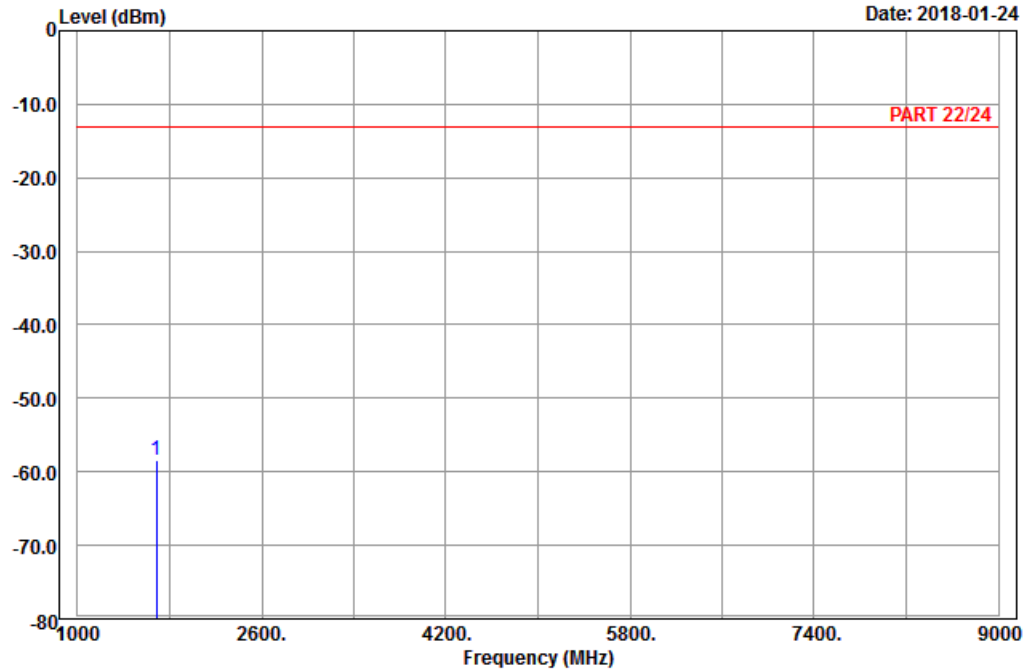


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2018-01-24



Site : 966 chamber 1  
 Condition: PART 22/24 Vertical  
 Remark : LTE\_Band 5\_Link\_CH20600  
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1688.00	-58.32	-66.34	-13.00	-45.32	8.02	Peak

## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## 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:

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

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