

**Huawei Technologies Co.,Ltd**

Application  
For  
Certification

**FCC ID: QISY625-U43**

**UMTS Mobile Phone**

**Models: HUAWEI Y625-U43, Y625-U43**

**2.4GHz Transceiver**

Report No.: 141112043SZN-002

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-13]

Prepared and Checked by:

Approved by:

Sign on file

Hardy Suo  
Assistant Engineer

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Andy Yan  
Senior Project Engineer  
Date: December 03, 2014

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF no.: FCC 15C\_Tx\_b

**Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch**

6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China  
Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751 Website: www.china.intertek-etlsemko.com

**LIST OF EXHIBITS**

*INTRODUCTION*

<i>EXHIBIT 1:</i>	Summary of Tests
<i>EXHIBIT 2:</i>	General Description
<i>EXHIBIT 3:</i>	System Test Configuration
<i>EXHIBIT 4:</i>	Measurement Results
<i>EXHIBIT 5:</i>	Equipment Photographs
<i>EXHIBIT 6:</i>	Product Labeling
<i>EXHIBIT 7:</i>	Technical Specifications
<i>EXHIBIT 8:</i>	Instruction Manual
<i>EXHIBIT 9:</i>	Miscellaneous Information
<i>EXHIBIT 10:</i>	Test Equipment List

INTERTEK TESTING SERVICES

MEASUREMENT/TECHNICAL REPORT

Huawei Technologies Co.,Ltd

MODEL: HUAWEI Y625-U43, Y625-U43

FCC ID: QISY625-U43

This report concerns (check one) Original Grant  Class II Change

Equipment Type: DTS - Part 15 Digital Transmission Systems (Bluetooth LE portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes  No

If yes, defer until : \_\_\_\_\_  
date

Company Name agrees to notify the Commission by: \_\_\_\_\_  
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes  No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-13 Edition] provision.

Report prepared by:

Hardy Suo  
Intertek Testing Services Shenzhen Ltd.  
Kejiyuan Branch  
6F, Block D, Huahan Building, Langshan Road,  
Nanshan District, Shenzhen, P. R. China  
Phone: (86 755) 8614 0743  
Fax: (86 755) 8614 6751

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# INTERTEK TESTING SERVICES

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## Table of Contents

1.0 <b><u>Summary of test results</u></b> .....	2
2.0 <b><u>General Description</u></b> .....	4
2.1 Product Description .....	4
2.2 Related Submittal(s) Grants .....	4
2.3 Test Methodology .....	5
2.4 Test Facility .....	5
3.0 <b><u>System Test Configuration</u></b> .....	7
3.1 Justification .....	7
3.2 EUT Exercising Software .....	7
3.3 Details of EUT and Description of Peripherals .....	7
3.4 Measurement Uncertainty .....	8
3.5 Equipment Modification .....	8
3.6 Support Equipment List and Description .....	8
4.0 <b><u>Measurement Results</u></b> .....	10
4.1 Maximum Conducted Output Power at Antenna Terminals .....	10
4.2 Minimum 6dB RF Bandwidth .....	11
4.3 Maximum Power Density .....	14
4.4 Out of Band Conducted Emissions .....	17
4.5 Out of Band Radiated Emissions .....	23
4.6 Transmitter Radiated Emissions in Restricted Bands .....	24
4.7 Field Strength Calculation .....	25
4.8 Radiated Spurious Emission .....	26
4.9 Conducted Emission .....	31
4.10 Radiated Emission from Digital Section of Transceiver .....	34
4.11 Transmitter Duty Cycle Calculation and Measurements .....	35
5.0 <b><u>Equipment Photographs</u></b> .....	37
6.0 <b><u>Product Labelling</u></b> .....	39
7.0 <b><u>Technical Specifications</u></b> .....	41
8.0 <b><u>Instruction Manual</u></b> .....	43
9.0 <b><u>Miscellaneous Information</u></b> .....	45
10.0 <b><u>Test Equipment List</u></b> .....	47

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## INTERTEK TESTING SERVICES

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### List of attached file

Exhibit Type	File Description	Filename
Cover Letter	Letter of Agency	agency.pdf
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidentiality Letter	request.pdf

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# INTERTEK TESTING SERVICES

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## EXHIBIT 1

### SUMMARY OF TEST RESULTS

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## INTERTEK TESTING SERVICES

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### 1.0 Summary of Test

**Huawei Technologies Co.,Ltd**

**MODEL: HUAWEI Y625-U43, Y625-U43**

**FCC ID: QISY625-U43**

TEST	REFERENCE	RESULTS
Max. Output power	15.247(b)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

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# INTERTEK TESTING SERVICES

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## EXHIBIT 2

### GENERAL DESCRIPTION

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## INTERTEK TESTING SERVICES

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### 2.0 General Description

#### 2.1 Product Description

The Equipment Under Test (EUT) is a UMTS Mobile Phone Model: HUAWEI Y625-U43, Y625-U43 with Bluetooth LE technology. The EUT was powered by AC/DC Adapter (input: 100-240Vac, 50/60Hz, 0.2A, output: 5.0Vdc, 1.0A). For more detailed features description, please refer to the user's manual.

The Model: Y625-U43 is the same as the Model: HUAWEI Y625-U43 in hardware aspect. The models are difference in packaging and marketing purpose only.

Type of Modulation: GFSK.

Antenna Type: Integral Antenna.

Antenna Gain:-1.5 dBi

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

#### 2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems (Bluetooth LE portion)

Remaining portions are subject to the following procedures:

1. Bluetooth BT 3.0(2.4G band): 141112043SZN-001
2. WiFi Transceiver (2.4G band): 141112043SZN-003
3. UMTS Mobile Phone (2G&3G): 141112043SZN-004
4. PC download (Class B personal computer and peripherals): 141112043SZN-005
5. Other function: 141112043SZN-006

## INTERTEK TESTING SERVICES

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### 2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009) and KDB 558074. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the “**Justification Section**” of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

### 2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

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**INTERTEK TESTING SERVICES**

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**EXHIBIT 3**

**SYSTEM TEST CONFIGURATION**

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## INTERTEK TESTING SERVICES

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### 3.0 System Test Configuration

#### 3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions.

The EUT was powered by AC/DC Adapter (Input: 120Vac, 60Hz), All packets mode in modulation type GFSK with different accessories listed in next page were tested, and only the worst case data was recorded in this report.

The simultaneous transmission spurious was tested, only the worst case data was recorded in this report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

#### 3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

#### 3.3 Special Accessories

One shielded USB cable attached.

## INTERTEK TESTING SERVICES

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### 3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

### 3.5 Equipment Modification

Any modifications installed previous to testing by Huawei Technologies Co.,Ltd will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

### 3.6 Support Equipment List and Description

This product was tested in the following configuration:  
Refer List

Description	Manufacturer	Model No.
Earphone (Black)	Goertek	HA1-3
	Quancheng	1293#+3283# 3.5MM-150
	Lianchuang	MEMD1532B528000
USB Cable	HongLin	Data Cable USB A Male to Micro USB, shielded, 100cm
	KangRui	
	LianSheng	
	PengYi	
Battery	BYD	HB474284RBC (2000mAh)
	UQC	
AC/DC Adapter (Huawei)	BYD HuntKey	HW-050100E2W Input: 100-240Vac, 50/60Hz, 0.2A; Output: 5Vdc, 1A
	BYD HuntKey	HW-050100B2W Input: 100-240Vac, 50/60Hz, 0.2A; Output: 5Vdc, 1A
	BYD HuntKey	HW-050100U2W Input: 100-240Vac, 50/60Hz, 0.2A; Output: 5Vdc, 1A

Note: The Model: HUAWEI Y625-U43 have two different AC/DC Adapter power suppliers, which have already arranged the test accordingly, and the worst case data was recorded in this report.

**EXHIBIT 4**  
**MEASUREMENT RESULTS**

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## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: November 28, 2014

Model: HUAWEI Y625-U43

### 4.0 **Measurement Results**

#### 4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

[x] The antenna power of the EUT was connected to the input of a broadband peak RF power meter. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2402	-2.0	0.63
Middle Channel: 2440	-0.5	0.89
High Channel: 2480	-0.1	0.98

Cable loss: 0.8 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT dBm max. output level = -0.1dBm

For RF Exposure, the information is saved with filename: sar report.pdf.

The test plots are attached as below.

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## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: November 28, 2014

Model: HUAWEI Y625-U43

### 4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 KHz according to FCC KDB 558074. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

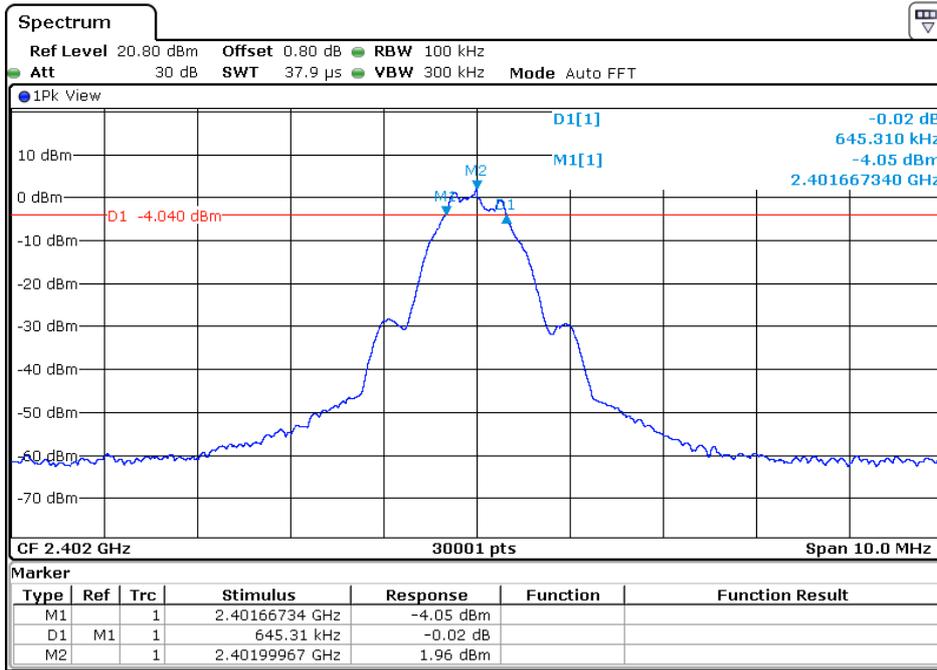
Limit: The 6 dB Bandwidth is at least 500 kHz.

Frequency (MHz)	6 dB Bandwidth (KHz)
2402	645
2440	666
2480	656

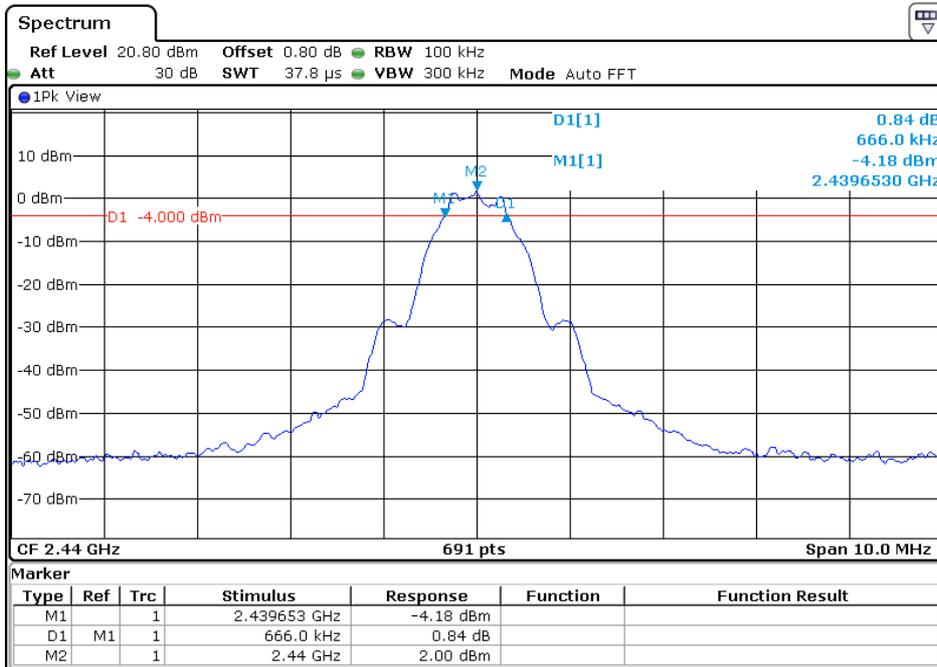
The test plots are attached as below.

# INTERTEK TESTING SERVICES

## Low Channel

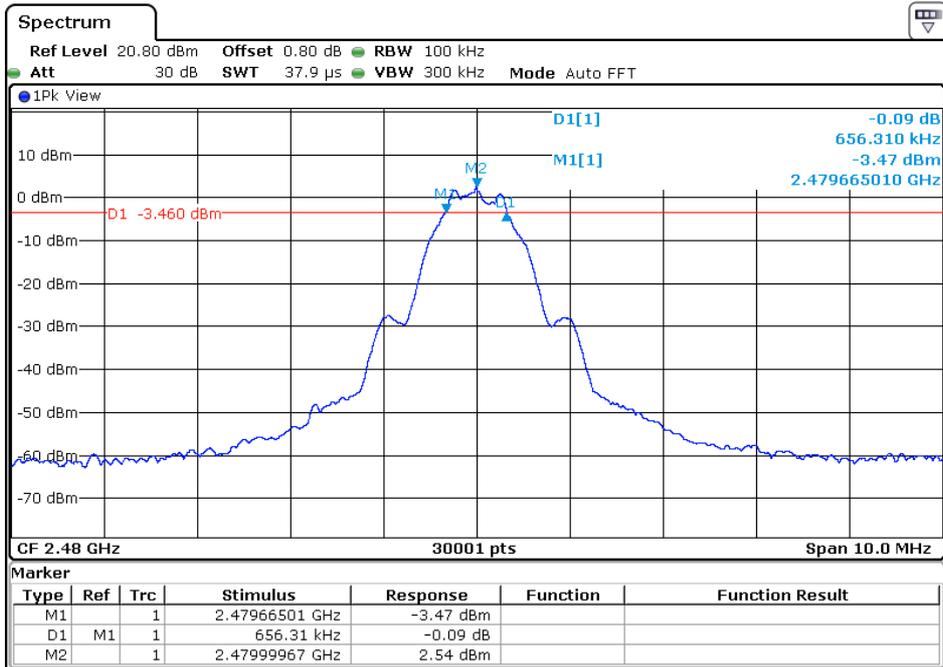


## Middle Channel



# INTERTEK TESTING SERVICES

## High Channel



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## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
Date of Test: November 28, 2014  
Model: HUAWEI Y625-U43

### 4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

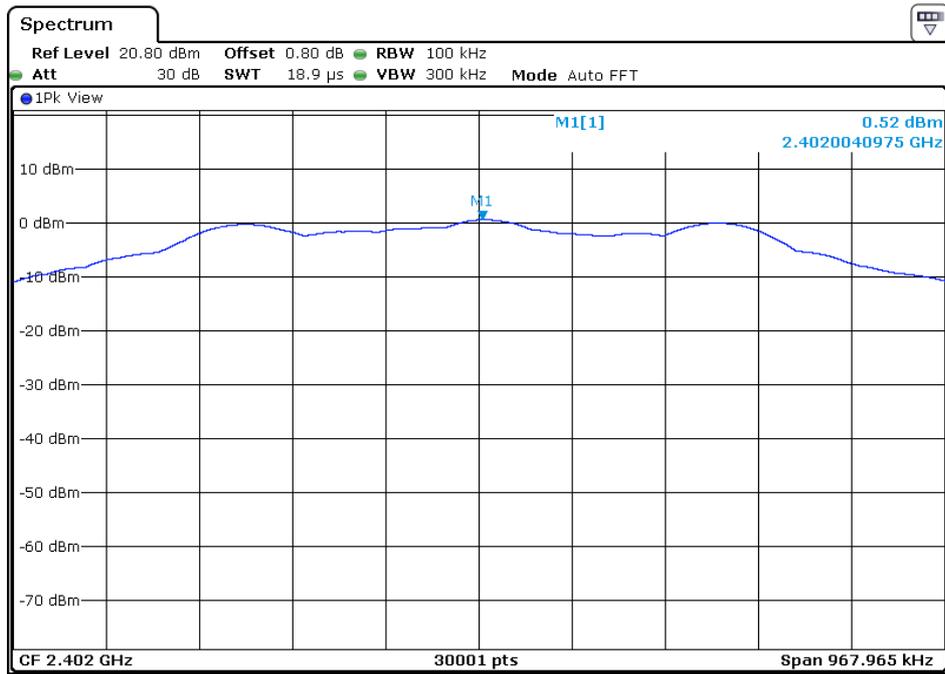
Limit: The Power Density does not exceed 8dBm/ 3 kHz.

Frequency (MHz)	Power Density with RBW 100KHz
2402	0.52
2440	1.50
2480	2.00

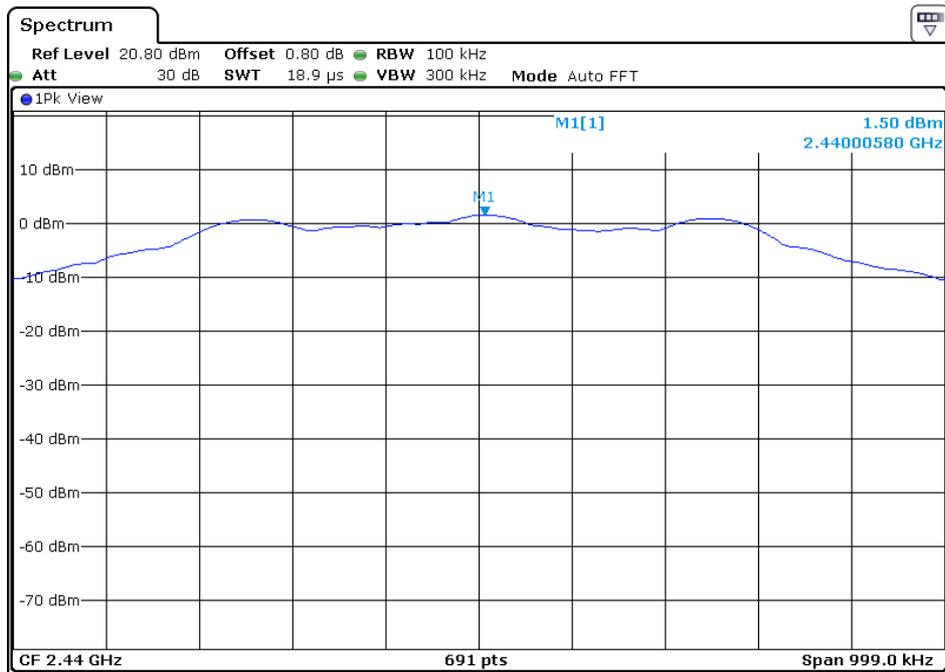
The test plots are attached as below.

# INTERTEK TESTING SERVICES

## Low Channel

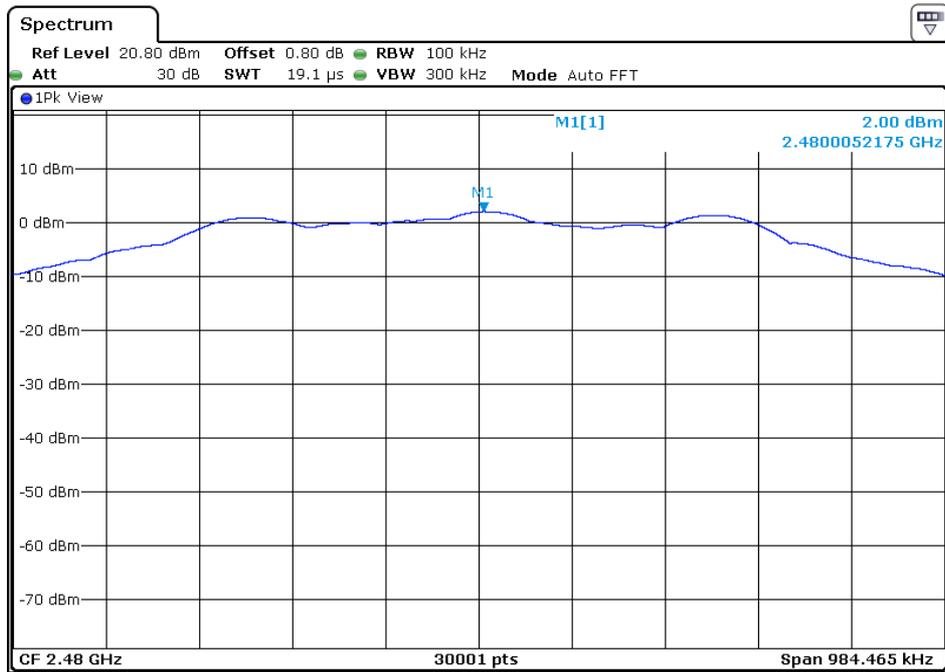


## Middle Channel



# INTERTEK TESTING SERVICES

## High Channel



## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
Date of Test: November 28, 2014  
Model: HUAWEI Y625-U43

#### 4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20dB below that of the maximum in-band 100 kHz emission, or else shall meet the general limits for radiated emissions at frequencies outside the passband, whichever results in lower attenuation. The Measurement Procedure was set according to the FCC KDB 558074.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

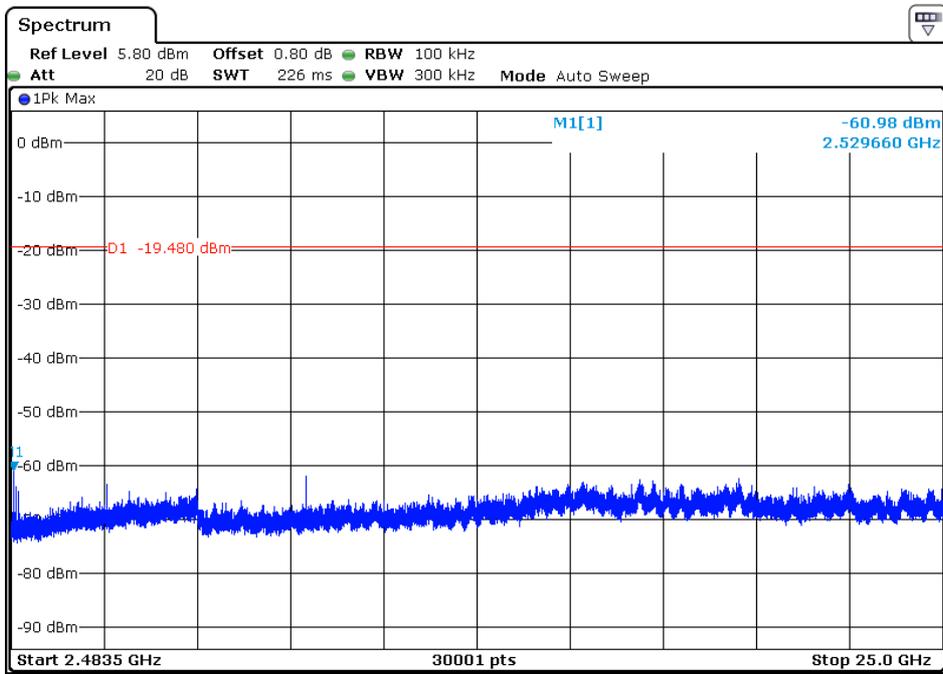
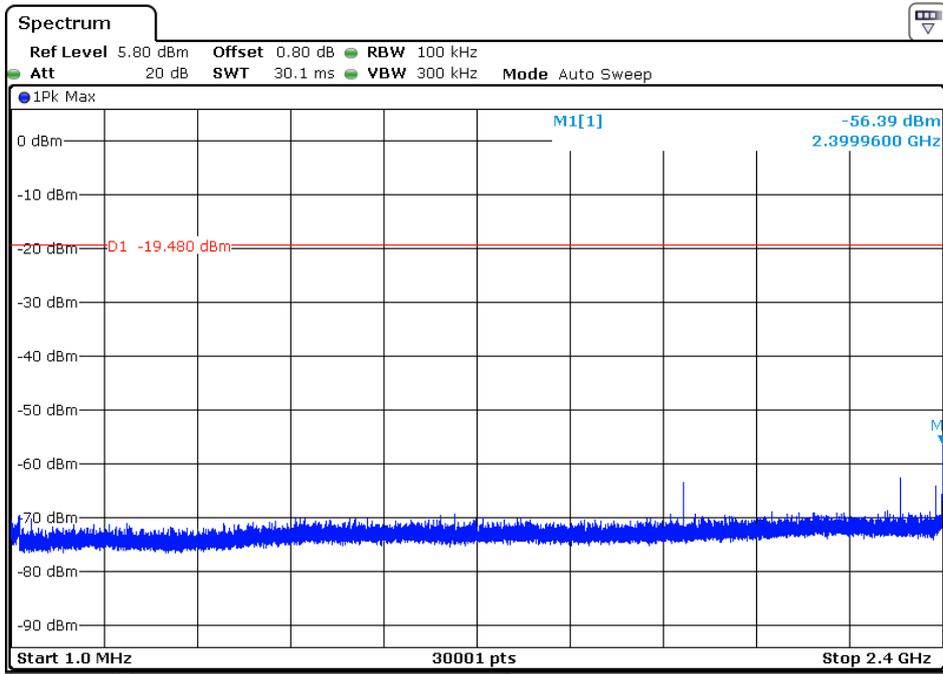
Refer to the attached test plot for out of band conducted emissions data with Packet: DH1

The test plots showed all spurious emission and up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

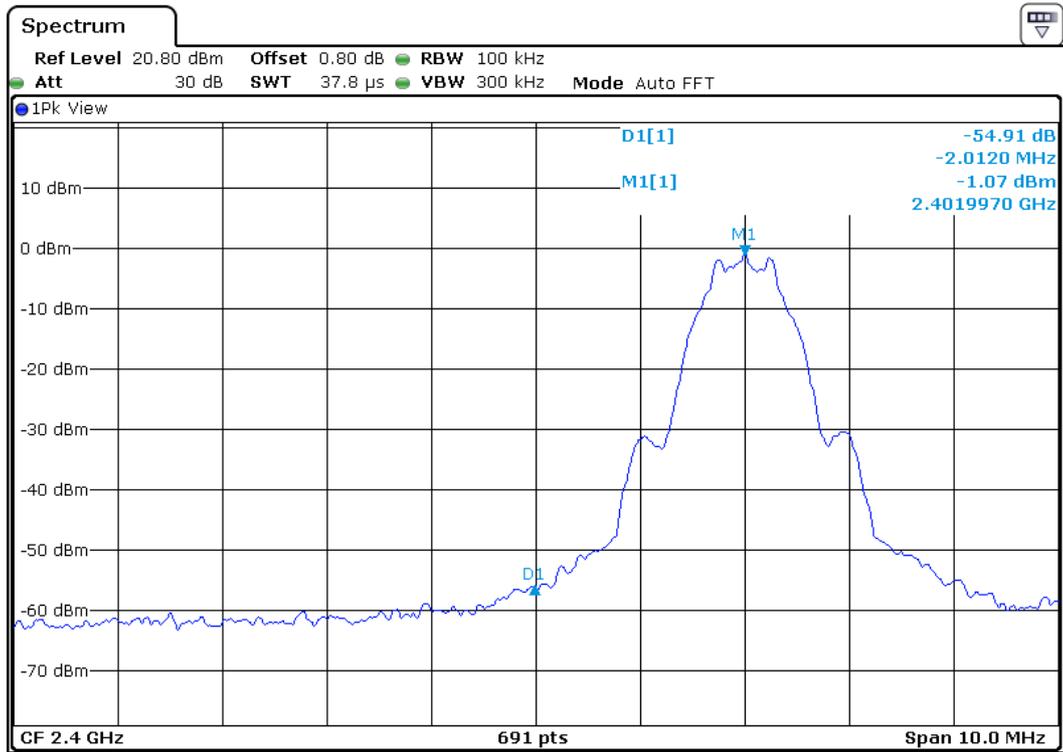
The test plots are attached as below.

# INTERTEK TESTING SERVICES

Low Channel Reference Level: 0.52dBm

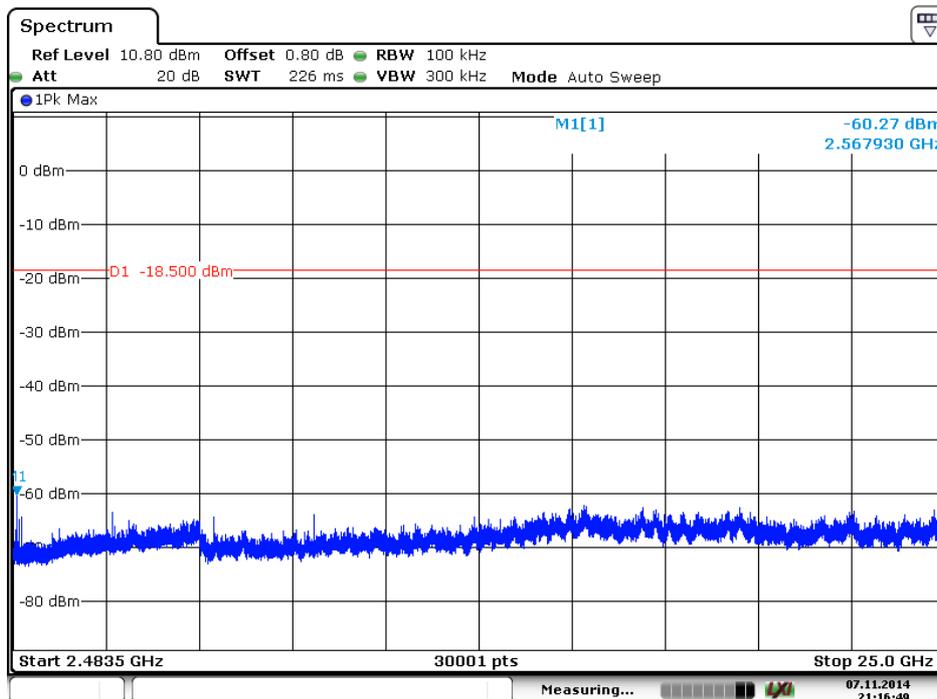
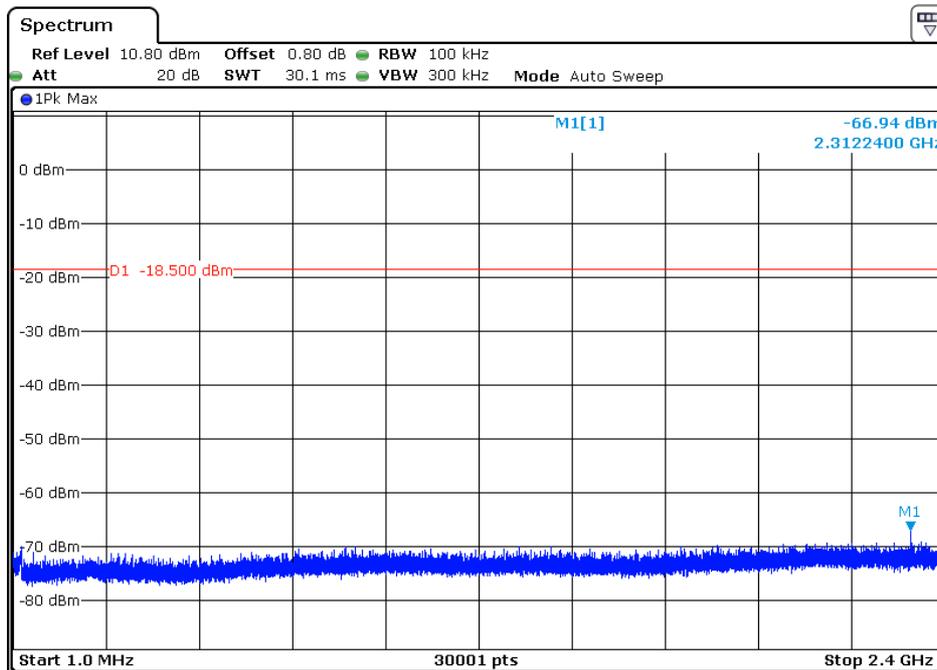


# INTERTEK TESTING SERVICES



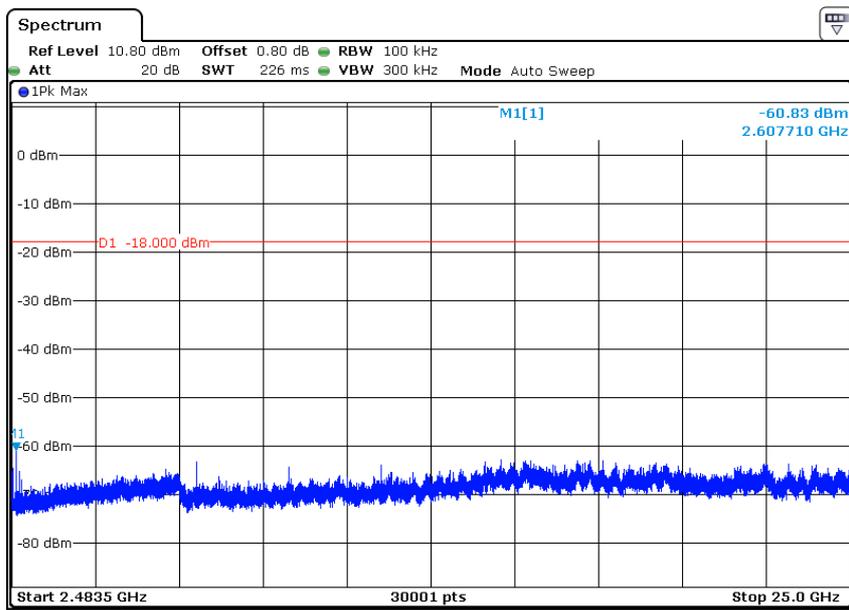
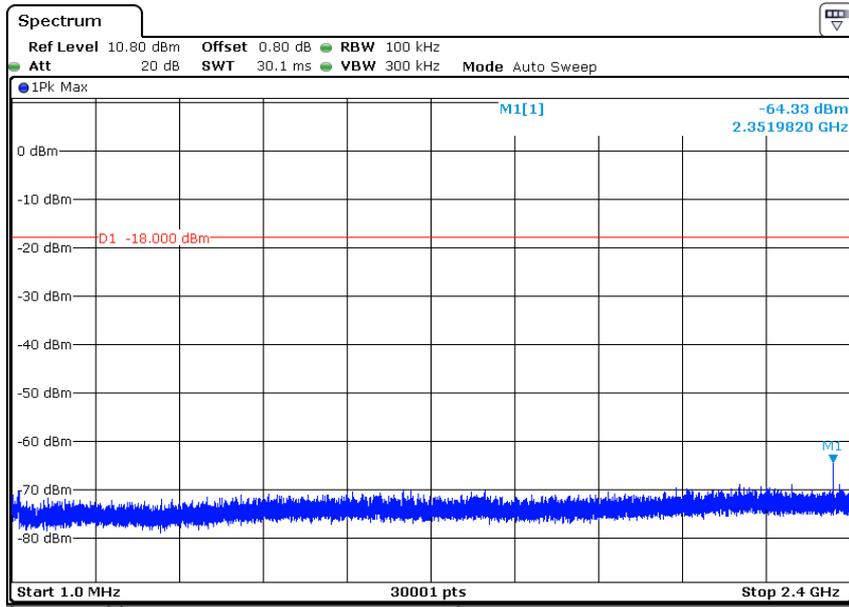
# INTERTEK TESTING SERVICES

Middle Channel Reference Level: 1.50dBm

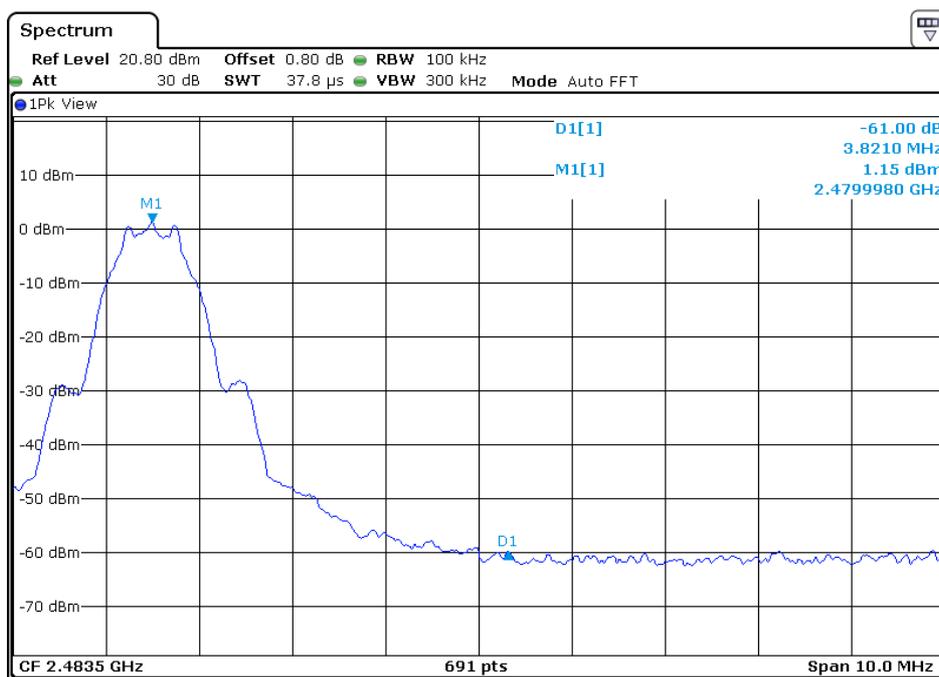


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High Channel Reference Level: 2.00dBm



# INTERTEK TESTING SERVICES



## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
Date of Test: November 28, 2014  
Model: HUAWEI Y625-U43

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

- Not required, since all emissions are more than 20dB below fundamental  
 See attached data sheet

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: November 28, 2014

Model: HUAWEI Y625-U43

### 4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b), (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

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## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: November 28, 2014

Model: HUAWEI Y625-U43

### 4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where

- FS = Field Strength in dB $\mu$ V/m
- RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

#### Example

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
Date of Test: November 28, 2014  
Model: HUAWEI Y625-U43

### 4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission at

49.885MHz is passed by 4.5 dB margin.  
(Simultaneous transmission spurious was considered)

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

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## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
Date of Test: November 28, 2014  
Model: HUAWEI Y625-U43  
Worst Case Operating Mode: BT Link  
AC/DC Adapter: BYD (HW-050100U2W)

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	117.785	32.8	20.0	9.1	21.9	43.5	21.6
Horizontal	216.240	30.9	20.0	12.4	23.3	46.0	22.7
Horizontal	638.190	28.5	20.0	23.0	31.5	46.0	14.5
Vertical	40.185	33.8	20.0	13.2	27.0	40.0	13.0
Vertical	49.885	45.6	20.0	9.9	35.5	40.0	4.5
Vertical	86.745	35.8	20.0	9.4	25.2	40.0	14.8

- NOTES: 1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: November 28, 2014  
 Model: HUAWEI Y625-U43  
 Mode: TX-Channel 2402MHz

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	4804.000	52.0	36.7	35.5	50.8	74.0	-23.2
Horizontal	7206.000	55.8	36.1	36.5	56.2	74.0	-17.8
Horizontal	9608.000	58.8	36.2	37.0	59.6	74.0	-14.4
Horizontal	*2389.310	53.8	36.7	28.1	45.2	74.0	-28.8

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	4804.000	36.4	36.7	35.5	35.2	54.0	-18.8
Horizontal	7206.000	40.5	36.1	36.5	40.9	54.0	-13.1
Horizontal	9608.000	43.4	36.2	37.0	44.2	54.0	-9.8
Horizontal	*2389.310	45.0	36.7	28.1	36.4	54.0	-17.6

- NOTES:
1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
  2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
  3. Negative value in the margin column shows emission below limit.
  4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: November 28, 2014  
 Model: HUAWEI Y625-U43  
 Mode: Packet TX-Channel 2440MHz

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	4880.000	52.1	36.7	35.5	50.9	74.0	-23.1
Horizontal	7320.000	55.2	36.1	37.2	56.3	74.0	-17.7
Horizontal	9760.000	58.8	36.2	37.0	59.6	74.0	-14.4

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	4880.000	36.9	36.7	35.5	35.7	54.0	-18.3
Horizontal	7320.000	39.2	36.1	37.2	40.3	54.0	-13.7
Horizontal	9760.000	43.5	36.2	37.0	44.3	54.0	-9.7

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
 Date of Test: November 28, 2014  
 Model: HUAWEI Y625-U43  
 Mode: TX-Channel 2480MHz

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	4960.000	51.9	36.7	35.5	50.7	74.0	-23.3
Horizontal	7440.000	55.7	36.1	37.2	56.8	74.0	-17.2
Horizontal	9920.000	57.1	36.3	38.9	59.7	74.0	-14.3
Horizontal	*2483.821	54.8	36.7	28.1	46.2	74.0	-27.8

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	4960.000	36.6	36.7	35.5	35.4	54.0	-18.6
Horizontal	7440.000	40.3	36.1	37.2	41.4	54.0	-12.6
Horizontal	9920.000	42.1	36.3	38.9	44.7	54.0	-9.3
Horizontal	*2483.821	47.0	36.7	28.1	38.4	54.0	-15.6

- NOTES: 1. Peak detector is used for the emission measurement (RBW=1MHz, VBW=3MHz for Peak data; RBW=1MHz, VBW=10Hz for Average data).
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

## INTERTEK TESTING SERVICES

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### 4.9 Conducted Emission

Worst Case Conducted emission at

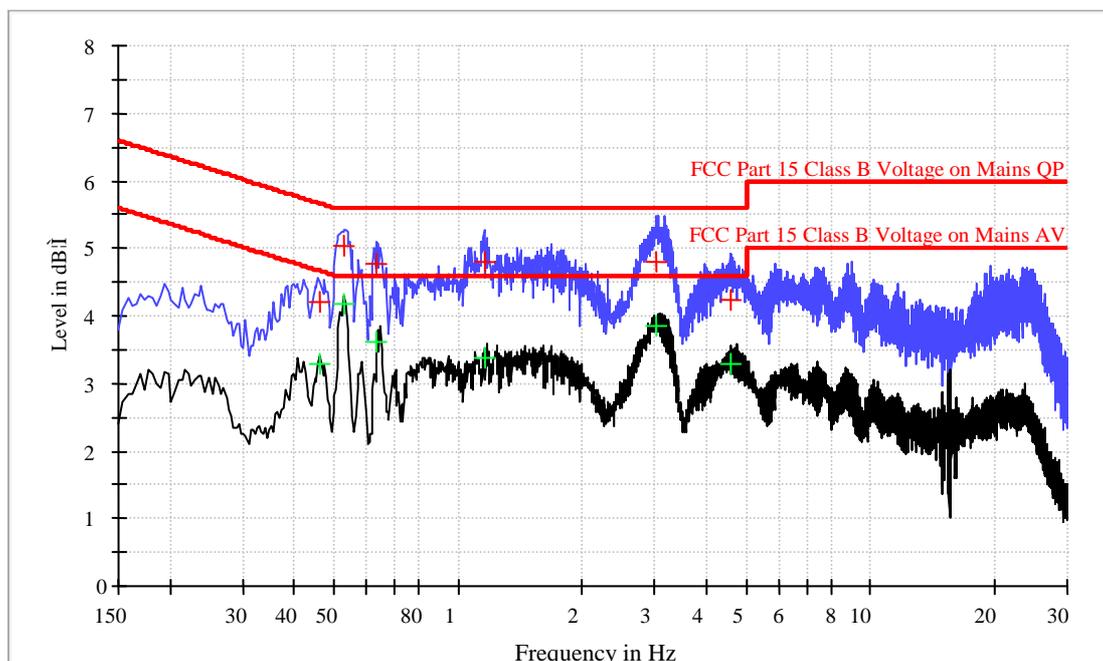
0.530MHz is Passed by 4.1 dB margin

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

## INTERTEK TESTING SERVICES

Company: Huawei Technologies Co.,Ltd  
 Date of Test: November 28, 2014  
 Model: HUAWEI Y625-U43  
 Worst Case Operating Mode: BT Link  
 AC/DC Adapter: BYD (HW-050100U2W)

### Conducted Emission Test - FCC



#### Result Table QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.462	42.0	L1	9.8	14.7	56.7
0.530	50.4	L1	9.8	5.6	56.0
0.634	47.6	L1	9.9	8.4	56.0
1.158	48.0	L1	9.9	8.0	56.0
3.038	48.1	L1	9.9	7.9	56.0
4.562	42.5	L1	10.0	13.5	56.0

#### Result Table AV

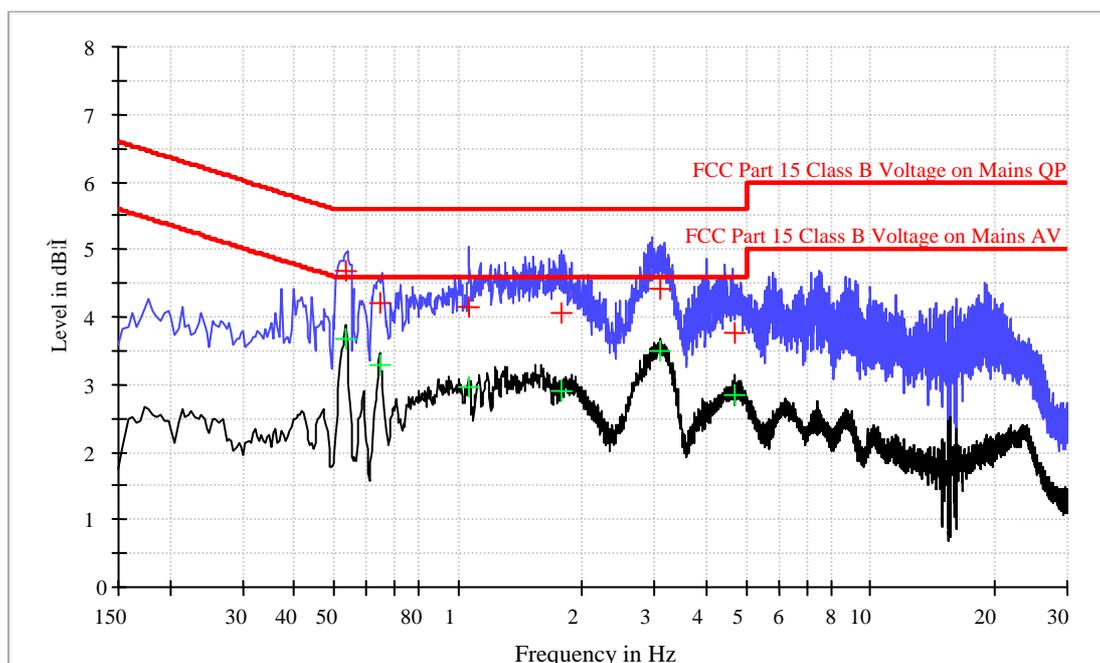
Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.462	32.9	L1	9.8	13.8	46.7
0.530	41.9	L1	9.8	4.1	46.0
0.634	36.0	L1	9.9	10.0	46.0
1.158	33.7	L1	9.9	12.3	46.0
3.038	38.6	L1	9.9	7.4	46.0
4.562	32.9	L1	10.0	13.1	46.0

TRF no.: FCC 15C\_TX\_b  
 FCC ID: QISY625-U43  
 Report No.: 141112043SZN-002

## INTERTEK TESTING SERVICES

Company: Huawei Technologies Co.,Ltd  
 Date of Test: November 28, 2014  
 Model: HUAWEI Y625-U43  
 Worst Case Operating Mode: BT Link  
 AC/DC Adapter: BYD (HW-050100U2W)

### Conducted Emission Test - FCC



#### Result Table QP

Frequency (MHz)	QuasiPeak (dB µV)	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.534	46.9	N	10.2	9.1	56.0
0.646	42.2	N	10.2	13.8	56.0
1.062	41.6	N	10.2	14.4	56.0
1.786	40.5	N	10.3	15.5	56.0
3.082	44.0	N	10.3	12.0	56.0
4.686	37.5	N	10.3	18.5	56.0

#### Result Table AV

Frequency (MHz)	Average (dB µV)	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.534	36.8	N	10.2	9.2	46.0
0.646	32.7	N	10.2	13.3	46.0
1.062	29.6	N	10.2	16.4	46.0
1.786	29.0	N	10.3	17.0	46.0
3.082	35.0	N	10.3	11.0	46.0
4.686	28.5	N	10.3	17.5	46.0

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd  
Date of Test: November 28, 2014  
Model: HUAWEI Y625-U43

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

- Not required - No digital part
- Test results are attached
- Included in the separated report.

## INTERTEK TESTING SERVICES

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: November 28, 2014

Model: HUAWEI Y625-U43

### 4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

# **INTERTEK TESTING SERVICES**

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## **EXHIBIT 5**

### **EQUIPMENT PHOTOGRAPHS**

## INTERTEK TESTING SERVICES

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### 5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.doc & internal photos.pdf.

**EXHIBIT 6**  
**PRODUCT LABELLING**

## INTERTEK TESTING SERVICES

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### 6.0 Product Labelling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

# **INTERTEK TESTING SERVICES**

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## **EXHIBIT 7**

### **TECHNICAL SPECIFICATIONS**

## INTERTEK TESTING SERVICES

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### 7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

# **INTERTEK TESTING SERVICES**

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## **EXHIBIT 8**

### **INSTRUCTION MANUAL**

## INTERTEK TESTING SERVICES

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### 8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

# **INTERTEK TESTING SERVICES**

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## **EXHIBIT 9**

### **MISCELLANEOUS INFORMATION**

## INTERTEK TESTING SERVICES

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### 9.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

**EXHIBIT 10**  
**TEST EQUIPMENT LIST**

## INTERTEK TESTING SERVICES

### 10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	21-May-2014	21-May-2015
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	21-May-2014	21-May-2015
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	28-Jun-2014	28-Jun-2015
SZ185-01	EMI Receiver	R&S	ESCI	100547	10-Mar-2014	10-Mar-2015
SZ061-09	Horn Antenna	ETS	3115	00092346	1-Nov-2014	1-Nov-2015
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	27-Aug-2014	27-Aug-2015
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	29-Apr-2014	29-Apr-2015
EM031-03	EXA Spectrum Analyzer	R&S	FSV40	101506	09-Jun-2014	09-Jun-2015
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	10-Mar-2014	10-Mar-2015
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	19-Apr-2014	19-Apr-2015
SZ062-02	RF Cable	RADIALL	RG 213U	--	03-Jul-2014	03-Jan-2015
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	03-Jul-2014	03-Jan-2015
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	03-Jul-2014	03-Jan-2015
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02	--	21-May-2014	21-May-2015
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	9-Nov-2014	9-Nov-2015
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	9-Nov-2014	9-Nov-2015
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	9-Nov-2014	16-Jun-15
SZ188-03	Shielding Room	ETS	RFD-100	4100	23-Aug-2014	22-Aug-15