

Huawei Technologies Co.,Ltd

Application
For
Certification

FCC ID: QISY360-U23

WCDMA Mobile Phone

Model: HUAWEI Y360-U23

WiFi Transceiver

Report No.: 150121004SZN-005

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

Lin Lin
Senior Project Engineer

Andy Yan
Senior Project Engineer
Date: 12 March 2015

- 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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TRF no.: FCC 15C_Tx_b

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MEASUREMENT/TECHNICAL REPORT

Huawei Technologies Co.,Ltd - MODEL: HUAWEI Y360-U23

FCC ID: QISY360-U23

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

Equipment Type: DTS - Part 15 Digital Transmission Systems (WiFi transmitter 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:

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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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EXHIBIT 1

SUMMARY OF TEST RESULTS

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1.0 Summary of Test

Huawei Technologies Co.,Ltd - MODEL: HUAWEI Y360-U23

FCC ID: QISY360-U23

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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EXHIBIT 2

GENERAL DESCRIPTION

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2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a WCDMA Mobile Phone with internal WiFi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing. It is powered by DC 3.7 V lithium battery, 1730 mAh which is charged by AC/DC Adapter (input: 100-240Vac, 50/60Hz, Output: 5Vdc, 550mA). For more detailed features description, please refer to the user's manual.

Type of Modulation: DBPSK, DQPSK, BPSK, QPSK, 16QAM and 64QAM.
Antenna Type: Integral Antenna.

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 (WiFi transmitter portion)

Remaining portions are subject to the following procedures:

1. Bluetooth FHSS (2.4G band): 150121004SZN-003
2. Bluetooth LE 4.0 (2.4G band): 150121004SZN-004
3. WCDMA Mobile Phone (2G&3G): 150121004SZN-006
4. PC download (Class B personal computer and peripherals): 150121004SZN-002
5. Other function: 150121004SZN-001

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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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EXHIBIT 3

SYSTEM TEST CONFIGURATION

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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 data rate 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.

Power Parameters of IEEE 802.11b/g/n

On 802.11n (20MHz & 40MHz) mode, only one antenna is used for transmission.

We test all data rate and only the worst – case data is shown in the report.

3.3 Special Accessories

One shielded USB cable is attached.

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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	Specification
USB cable	Honglin	N/A	Shielded 100cm
	Pang Ngai		
	Connrex		
	Unirise		
Headphone	Goertek	N/A	Unshielded 100cm
	Lianchuang		
	quancheng		
Lithium Battery	BYD	HB5 V1	DC 3.7 V, 1730 mAh
	Lishen		
Adaptor	Huntkey/BYD	HW-050055E1W	Input: AC 100-240 V, 50/60 Hz,0.2 A Output: DC 5V,550 mA
		HW-050055U1W	
	Fuhua/BYD	HW-050055Z1W	
		HW-050055R1W	

Note: The Model: HUAWEI Y360-U23 have four different AC/DC Adapter power suppliers, which have already arranged the test accordingly, and only the worst case data was recorded in this report.

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EXHIBIT 4

MEASUREMENT RESULTS

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: 10 March 2015

Model: HUAWEI Y360-U23

4.0 Measurement Results

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

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter have a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

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

IEEE 802.11b (Antenna Gain = 0.5 dBi) (BPSK, 1Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	14.3	26.9
Middle Channel: 2437	14.7	29.5
High Channel: 2462	14.9	30.9

IEEE 802.11g (Antenna Gain =0.5 dBi) (DBPSK, 6Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	13.6	22.9
Middle Channel: 2437	14.0	25.1
High Channel: 2462	14.2	26.3

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IEEE 802.11n 20M (Antenna Gain = 0.5 dBi) (BPSK, 6.5Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	13.6	22.9
Middle Channel: 2437	14.0	25.1
High Channel: 2462	14.3	26.9

IEEE 802.11n 40M (Antenna Gain = 0.5 dBi) (BPSK, 13.5Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2422	11.2	13.2
Middle Channel: 2437	13.4	21.9
High Channel: 2452	11.4	13.8

Cable loss: 0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT dBm max. output level = 14.9 dBm

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

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Applicant: Huawei Technologies Co.,Ltd

Date of Test: 10 March 2015

Model: HUAWEI Y360-U23

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.

IEEE 802.11b (BPSK, 1Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	9.986
2437	9.986
2462	9.986

IEEE 802.11g (DBPSK, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	15.456
2437	15.673
2462	15.109

IEEE 802.11n 20M (BPSK, 6.5Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	16.020
2437	16.020
2462	15.412

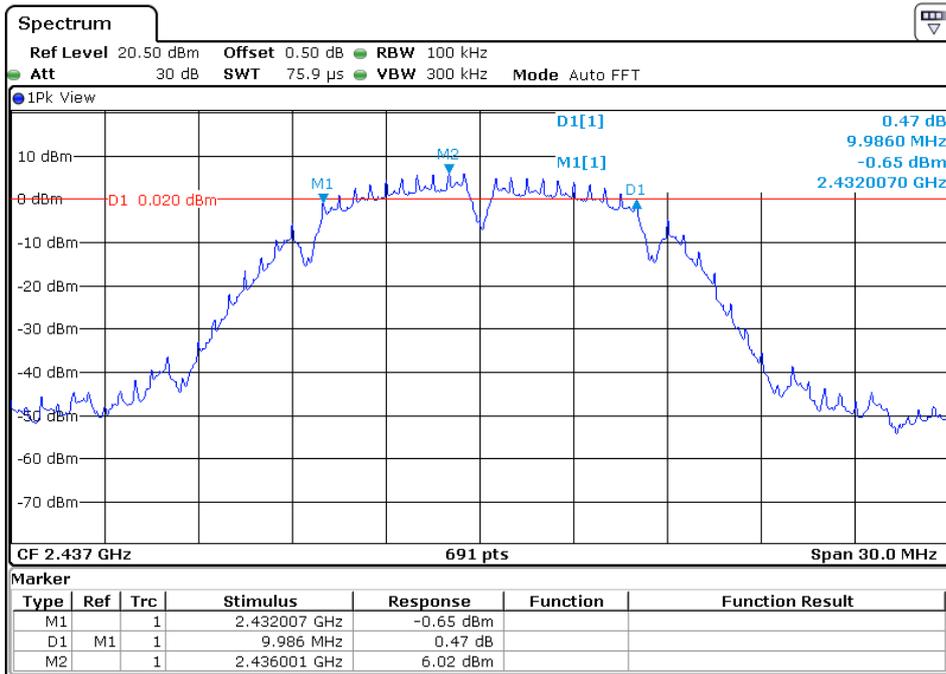
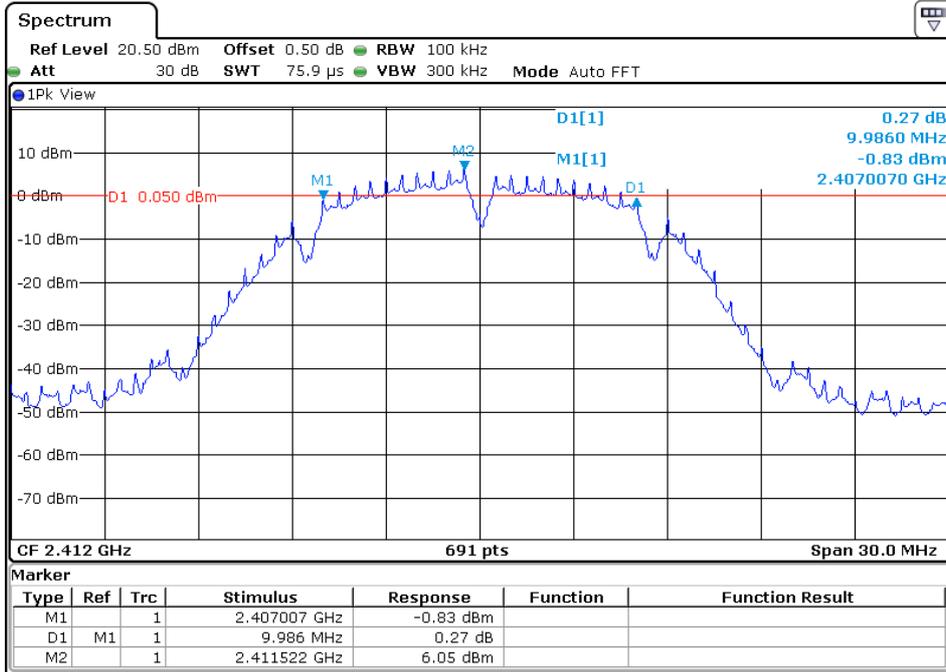
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IEEE 802.11n 40M (BPSK, 13.5Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2422	35.311
2437	35.311
2452	35.289

The test plots are attached as below.

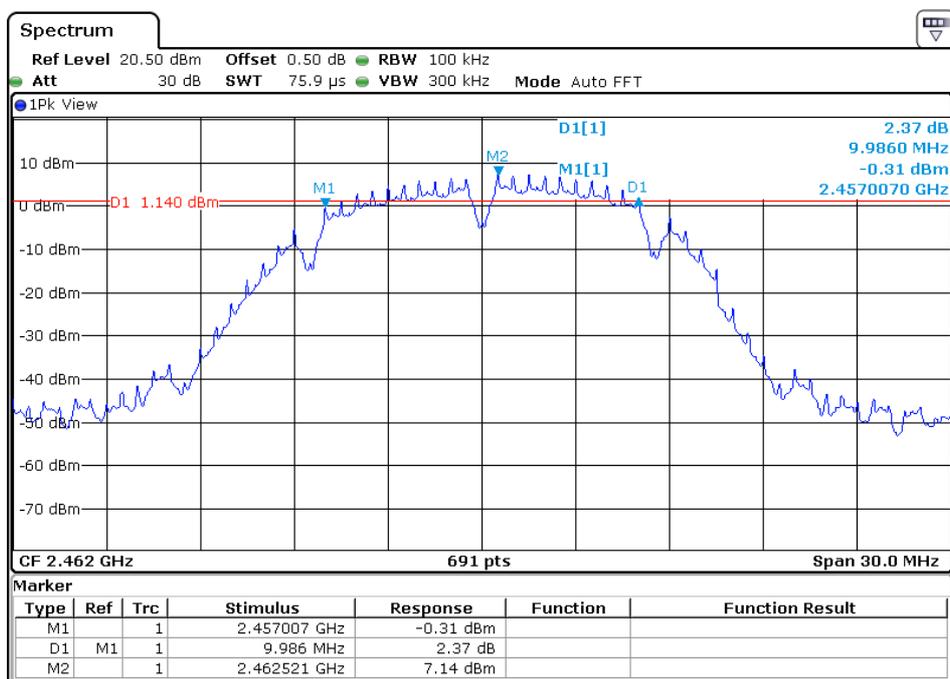
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802.11b



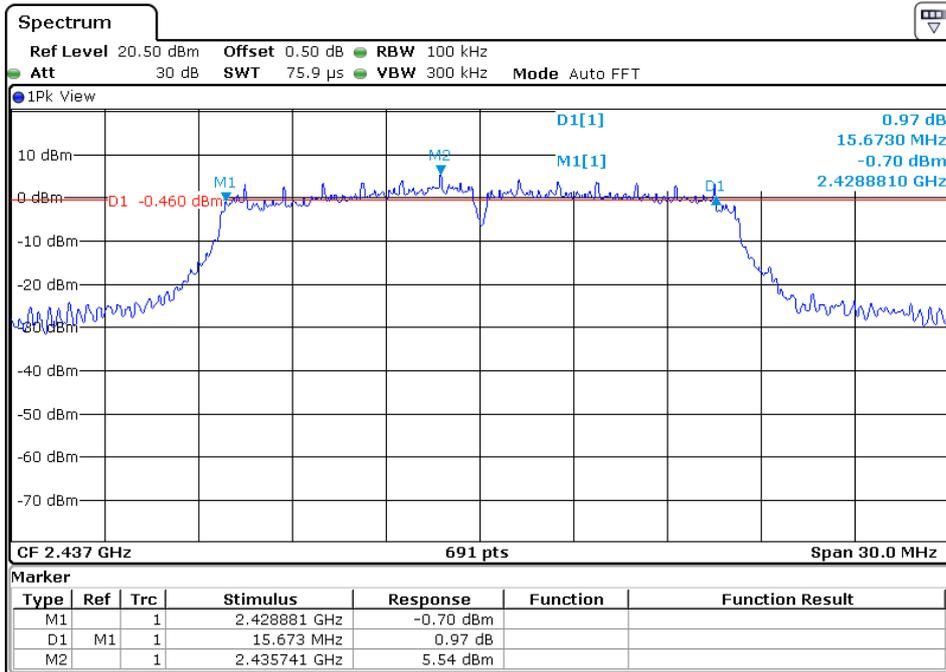
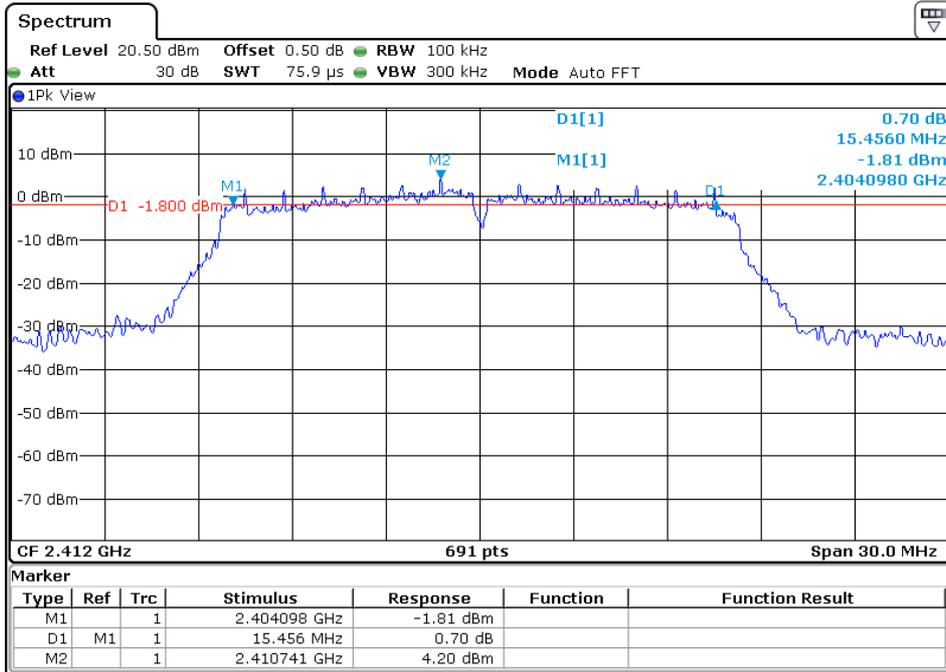
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 Report No.: 150121004SZN-005

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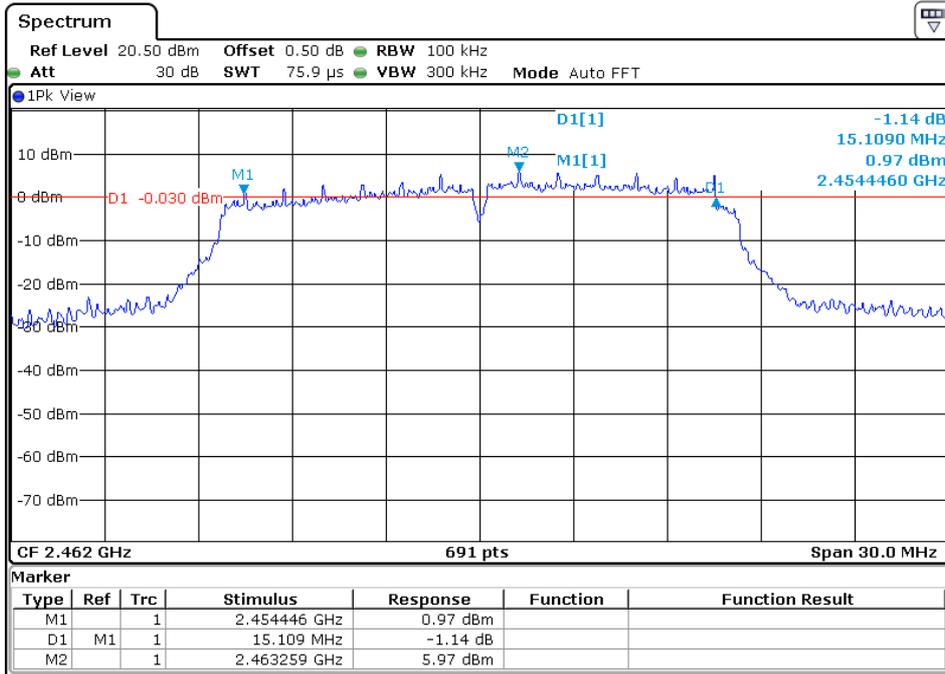
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802.11g



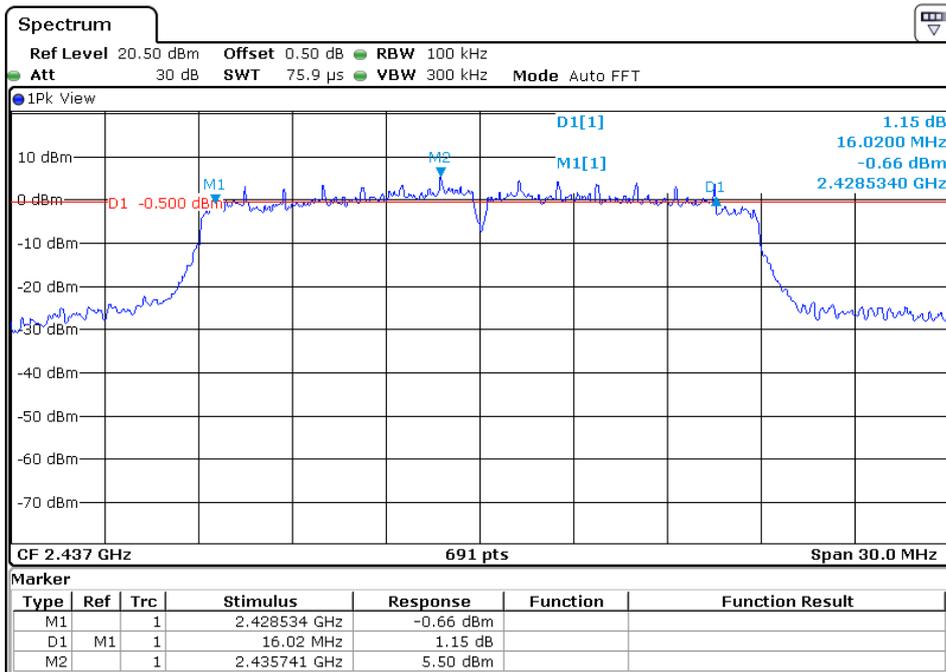
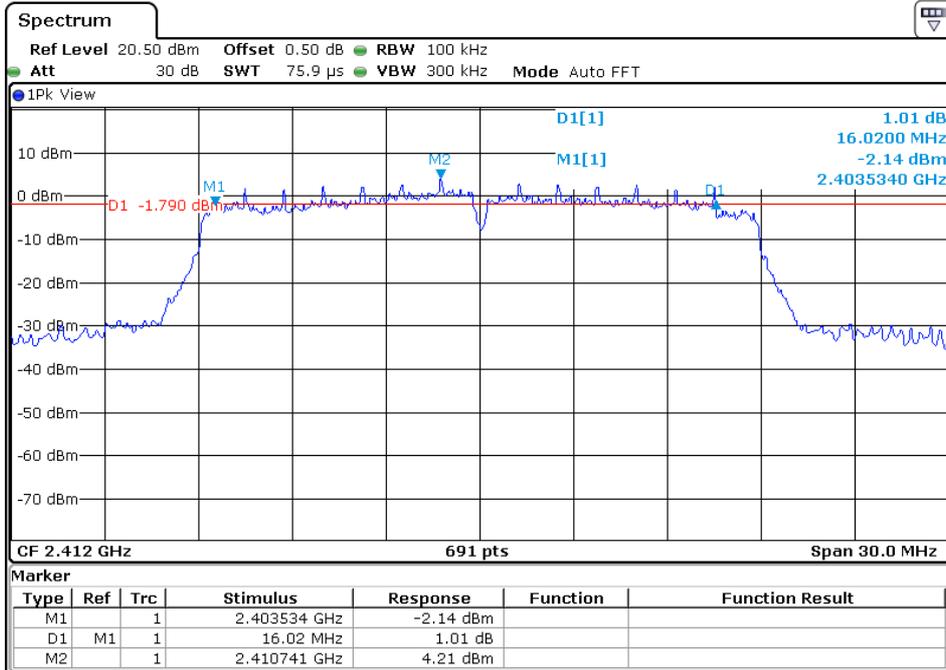
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 Report No.: 150121004SZN-005

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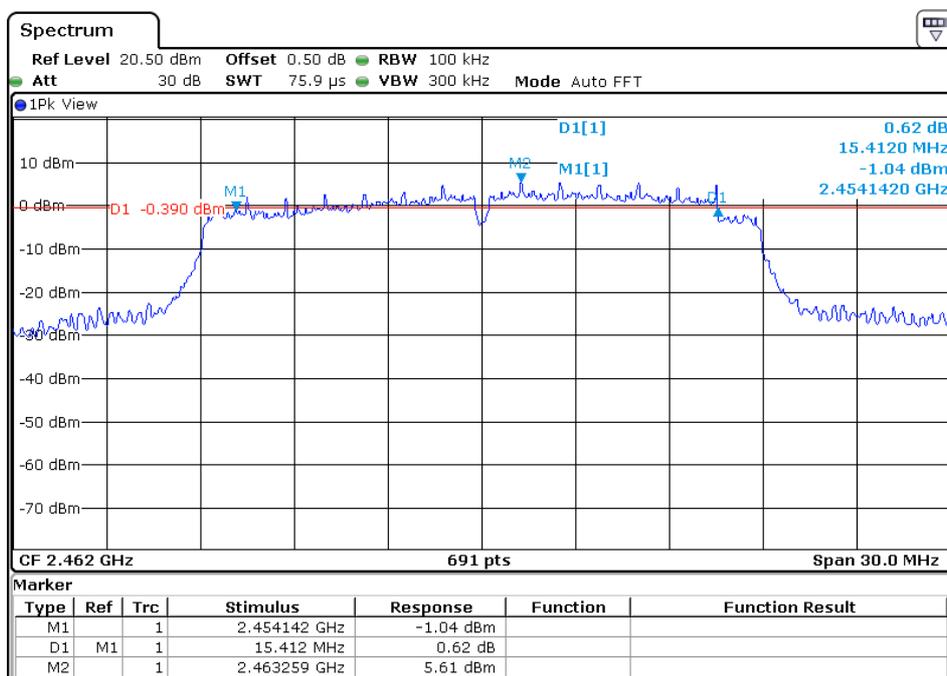
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802.11n-HT20



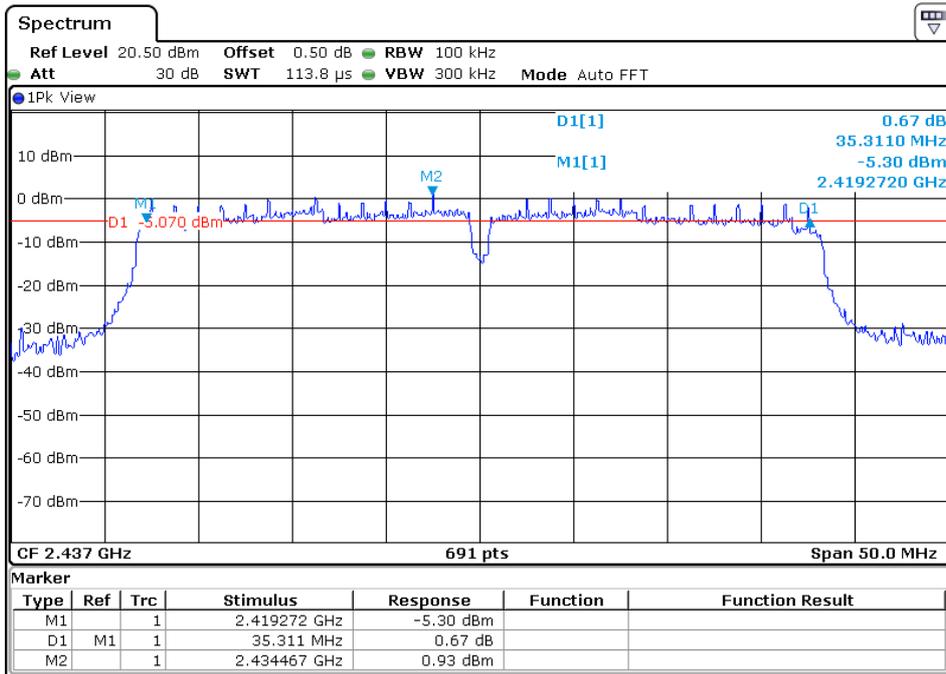
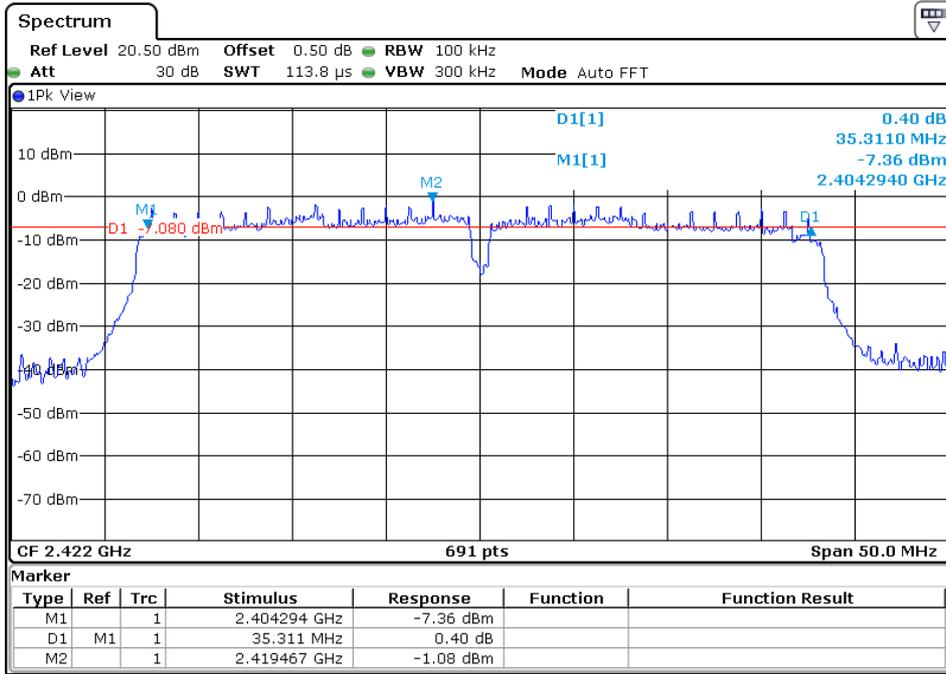
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 FCC ID: QISY360-U23
 Report No.: 150121004SZN-005

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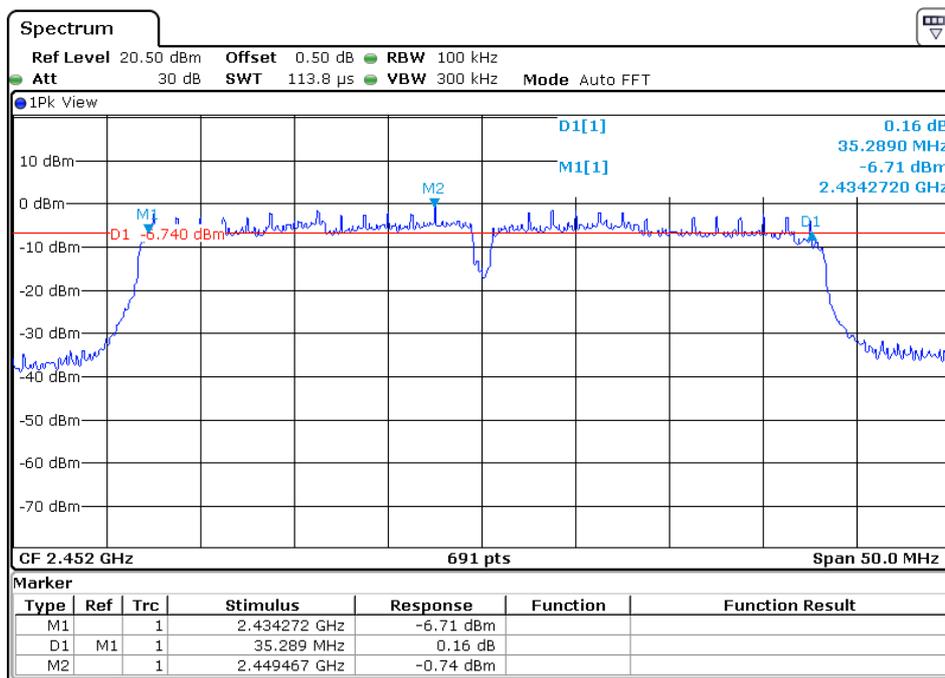
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802.11n-HT40



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Applicant: Huawei Technologies Co.,Ltd

Date of Test: 10 March 2015

Model: HUAWEI Y360-U23

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.

IEEE 802.11b (BPSK, 1Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	6.22
2437	6.02
2462	7.27

IEEE 802.11g (DBPSK, 6Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	3.73
2437	5.27
2462	4.33

IEEE 802.11n 20M (BPSK, 6.5Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	3.77
2437	5.23
2462	4.31

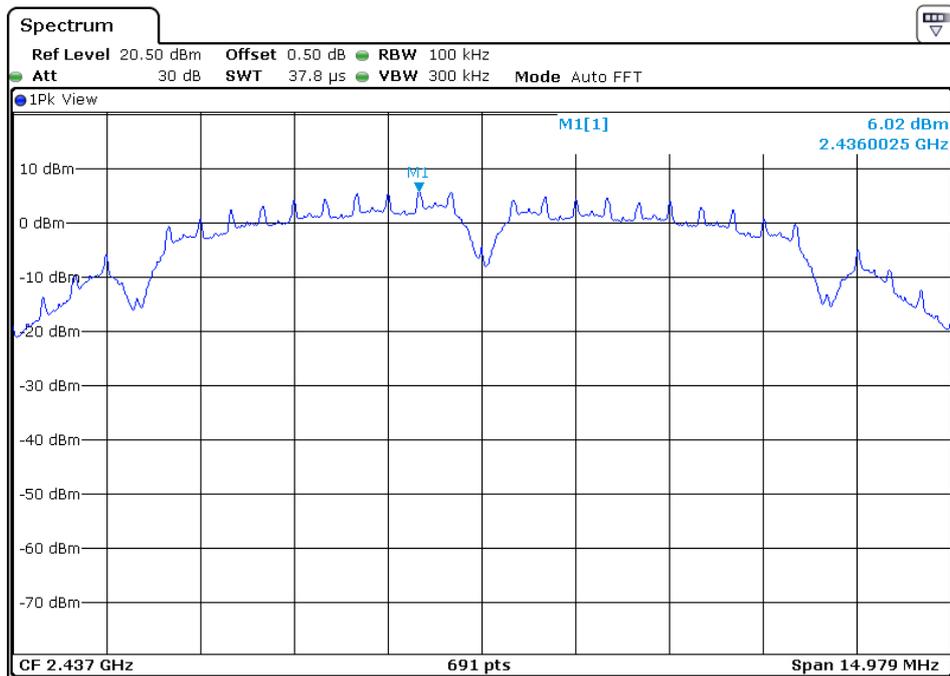
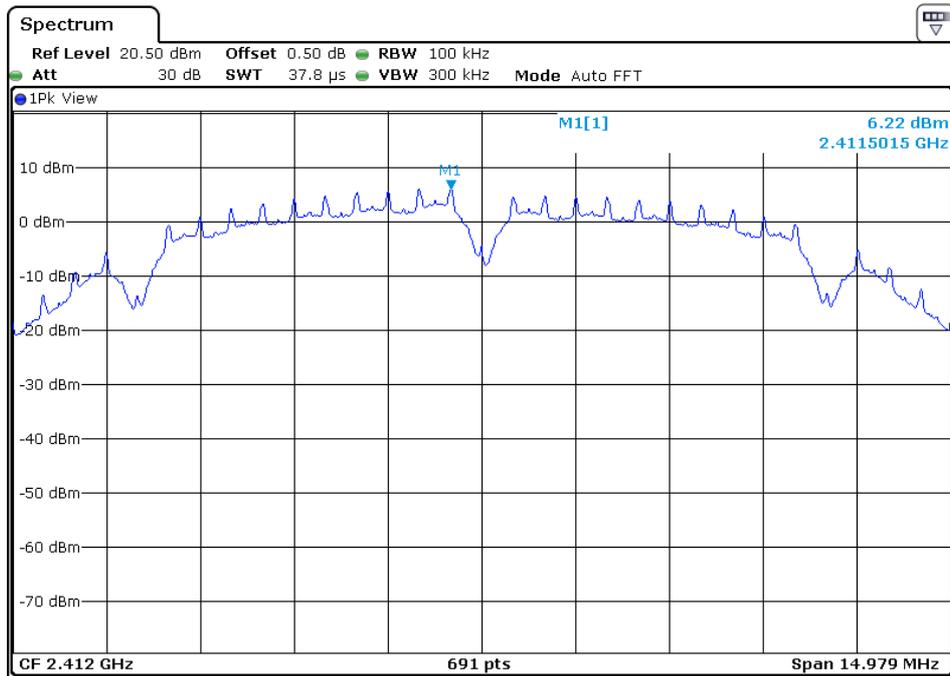
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IEEE 802.11n 40M (BPSK, 13.5Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2422	-1.21
2437	1.14
2452	-0.03

The test plots are attached as below.

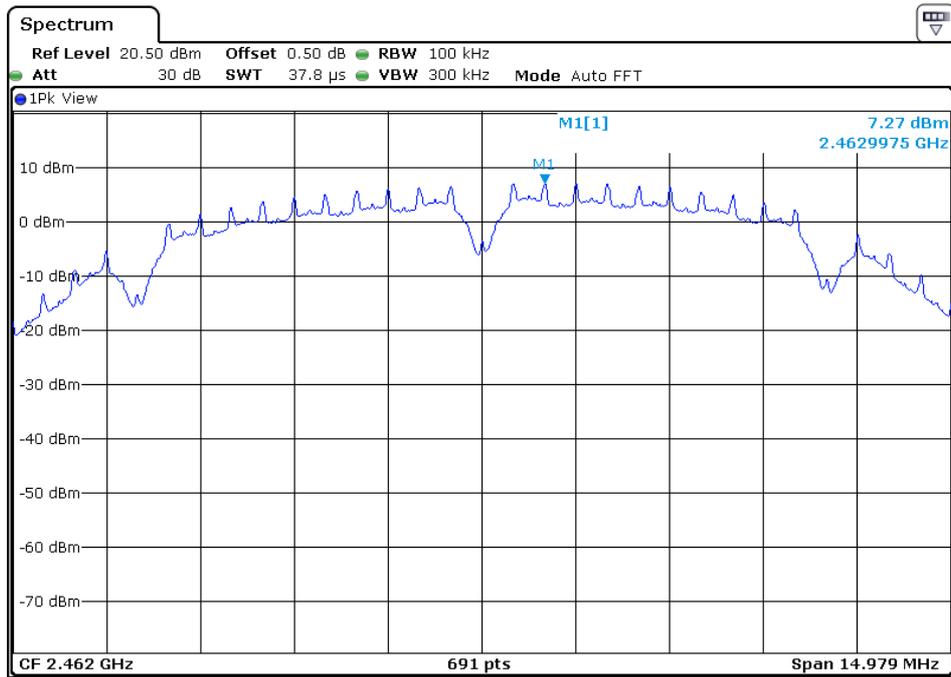
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802.11b



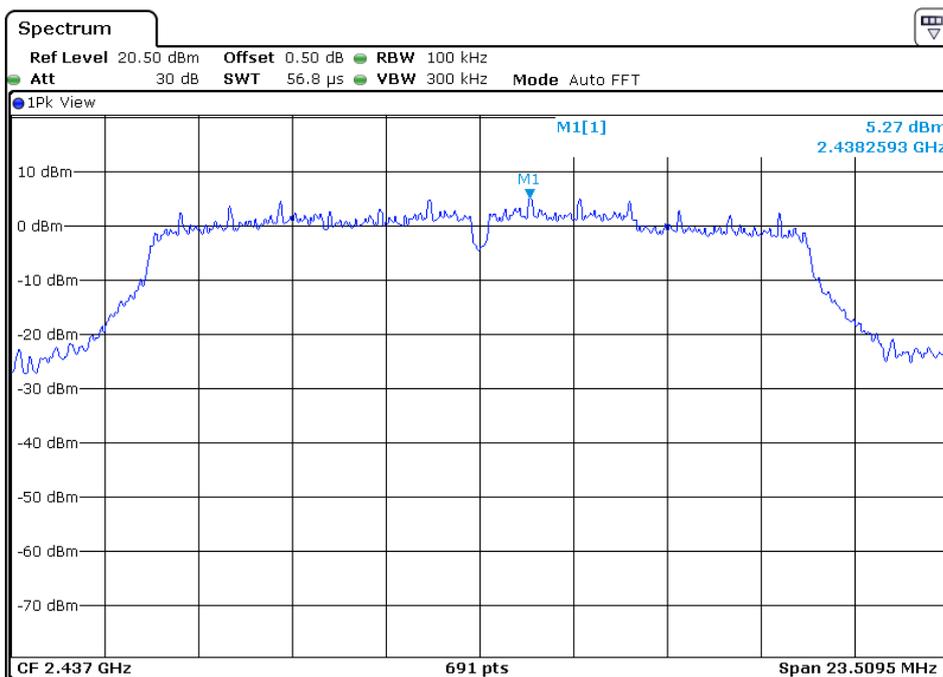
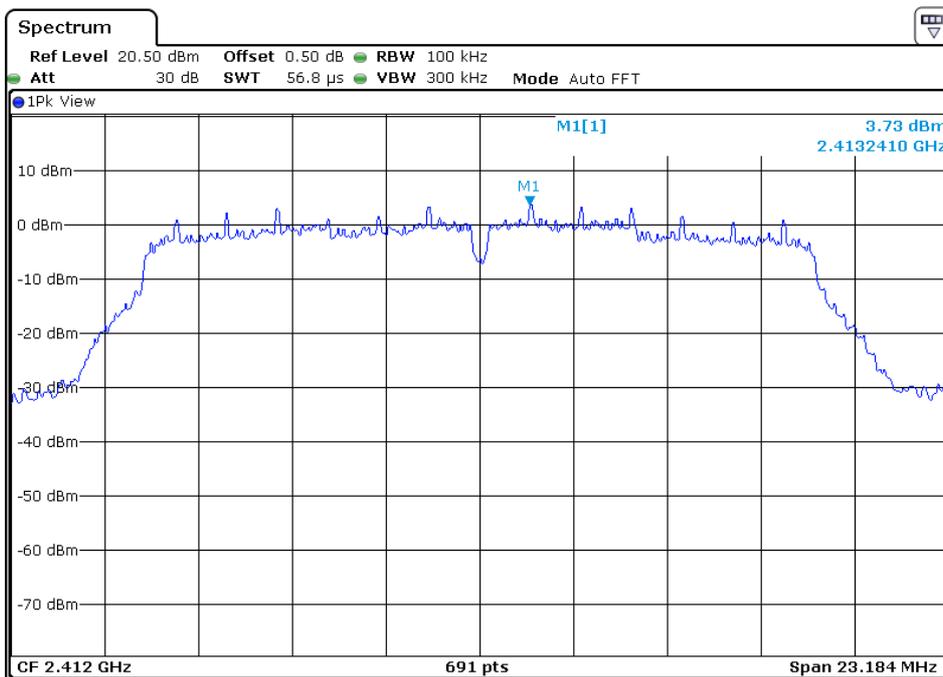
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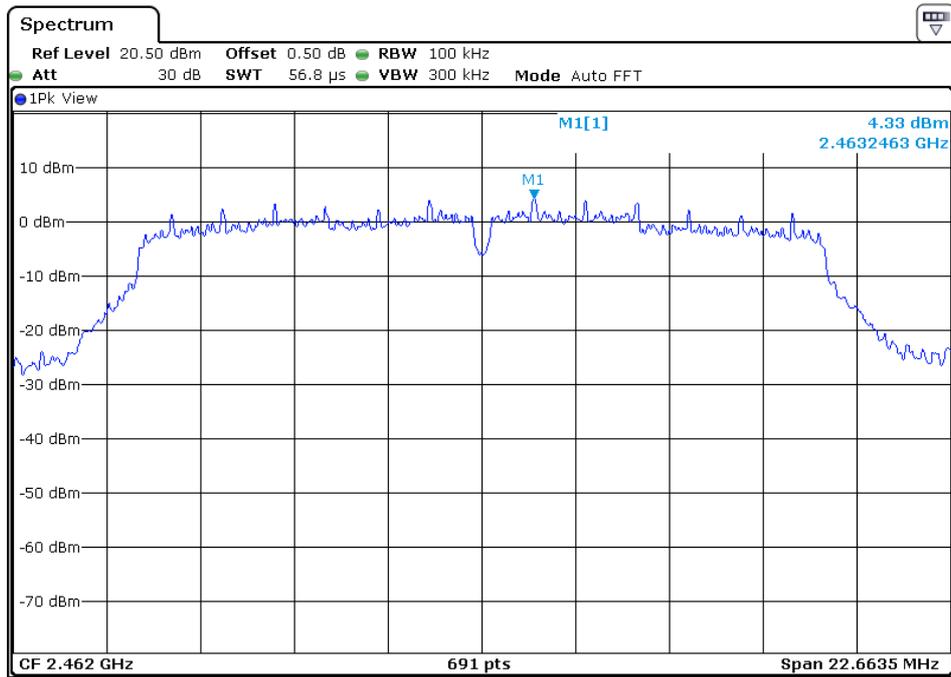
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802.11g



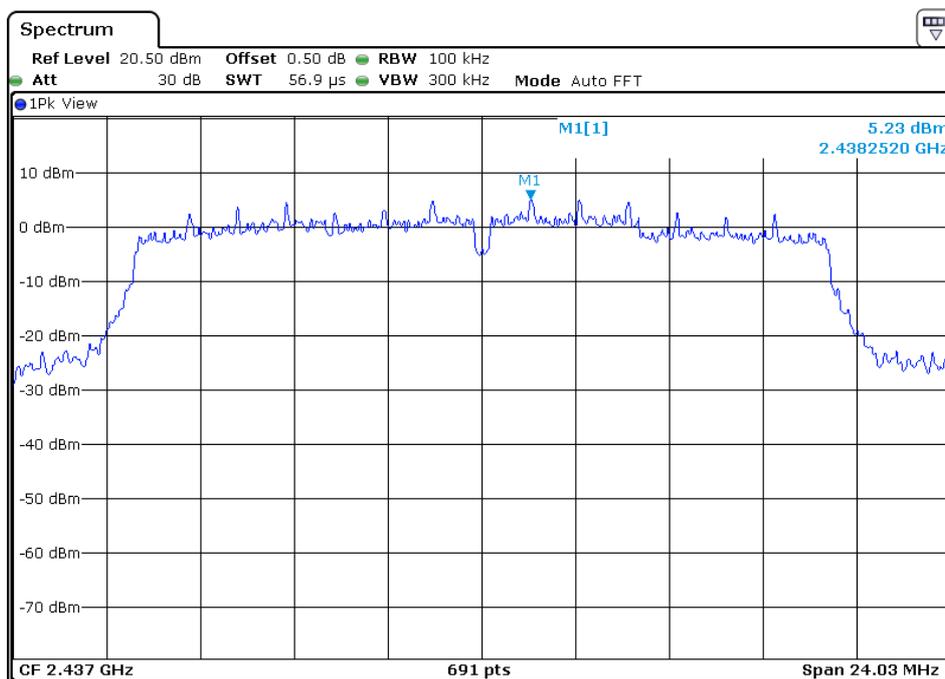
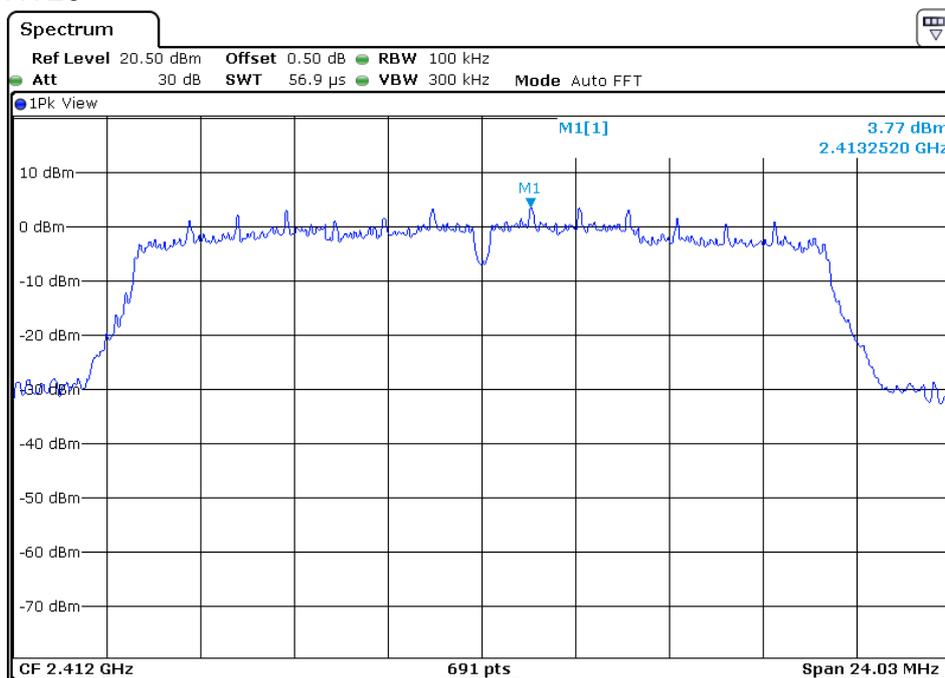
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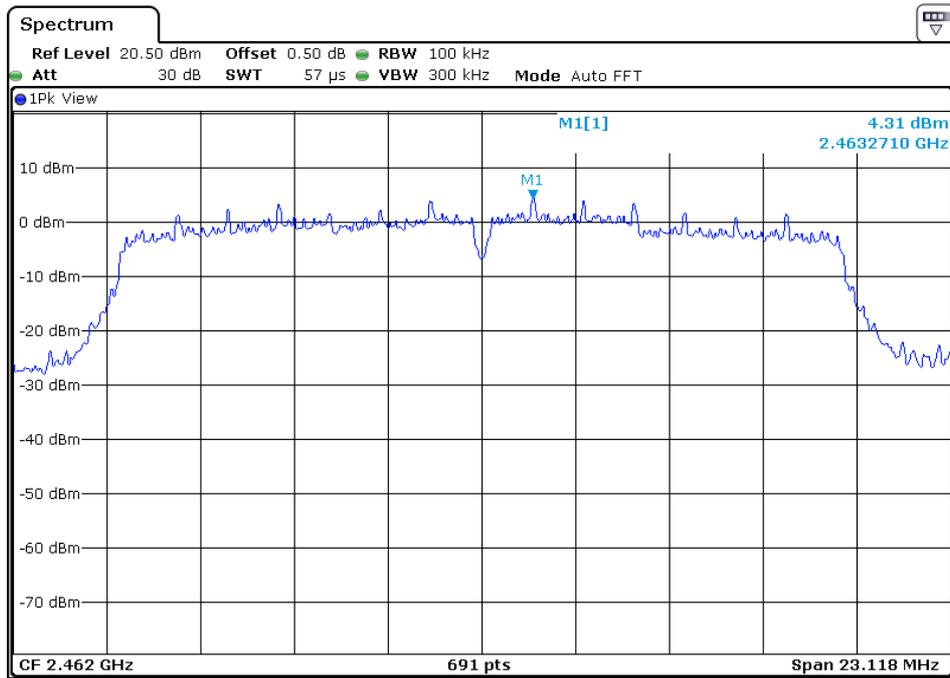
INTERTEK TESTING SERVICES

802.11n-HT20



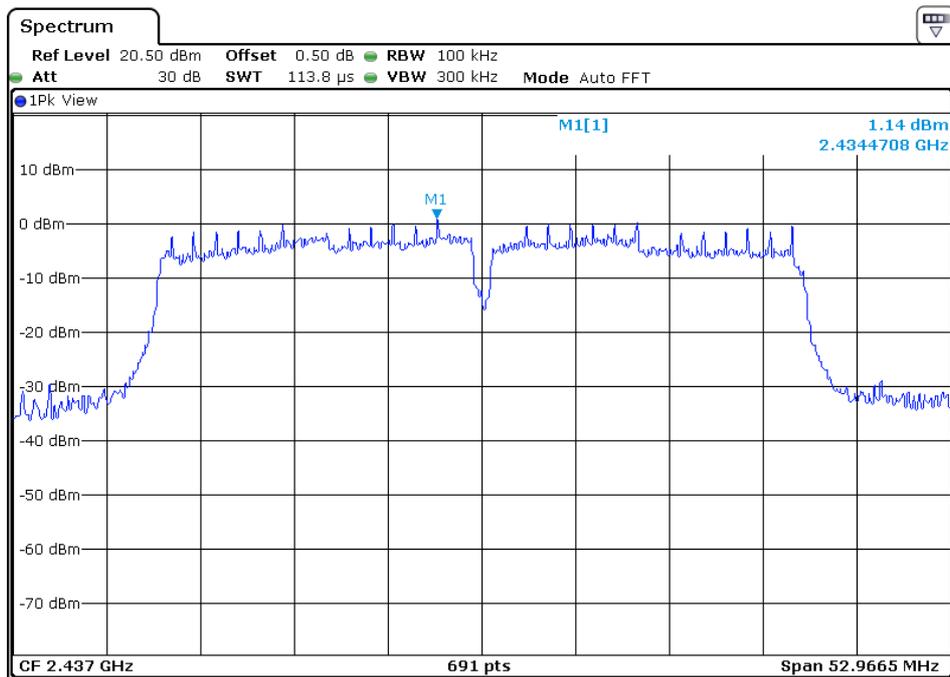
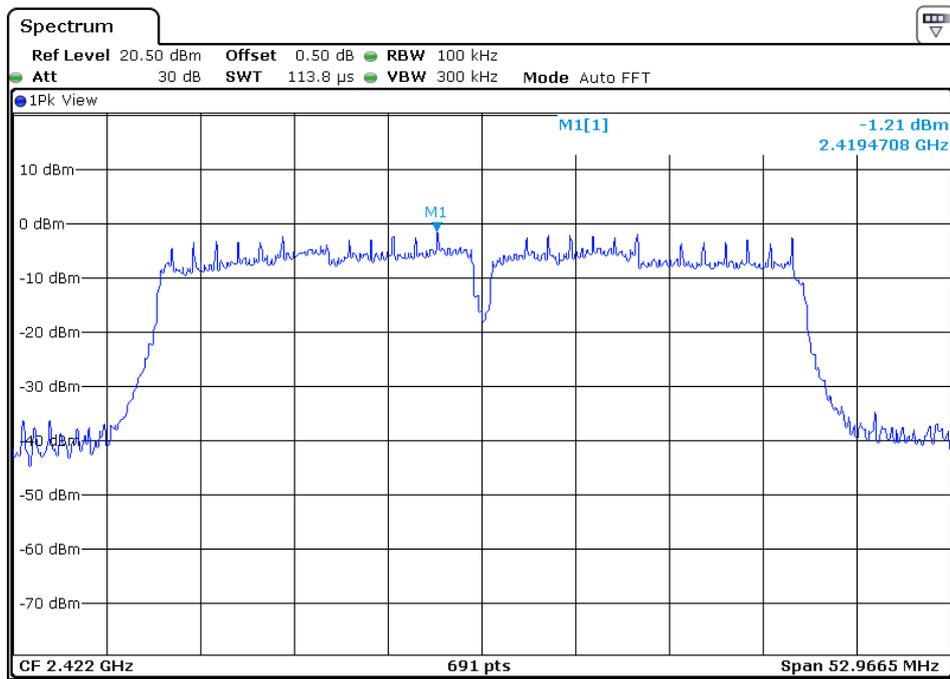
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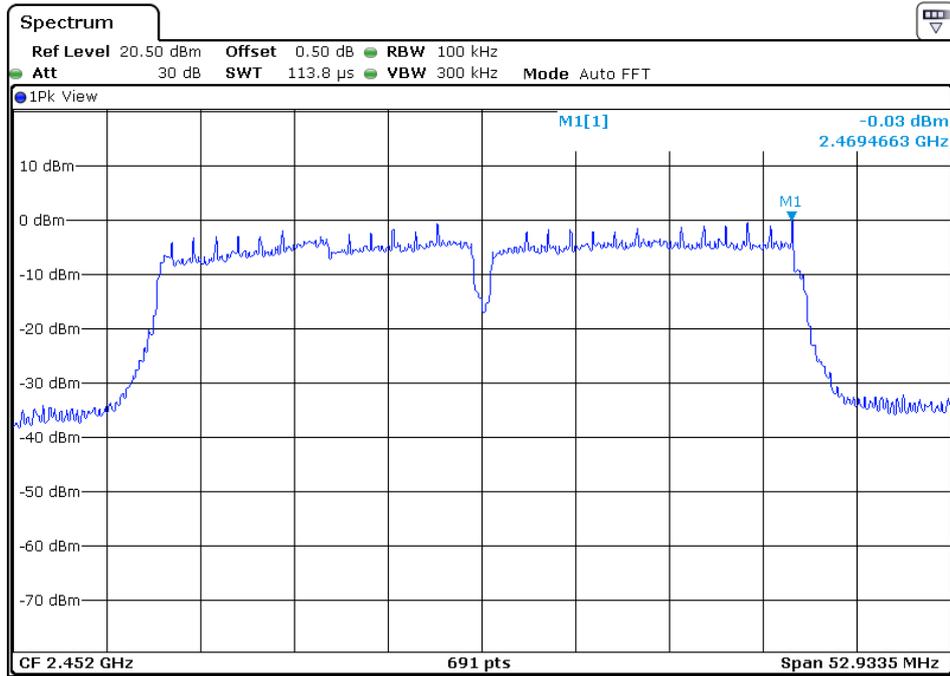
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802.11n-HT40



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INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd
Date of Test: 10 March 2015
Model: HUAWEI Y360-U23

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.

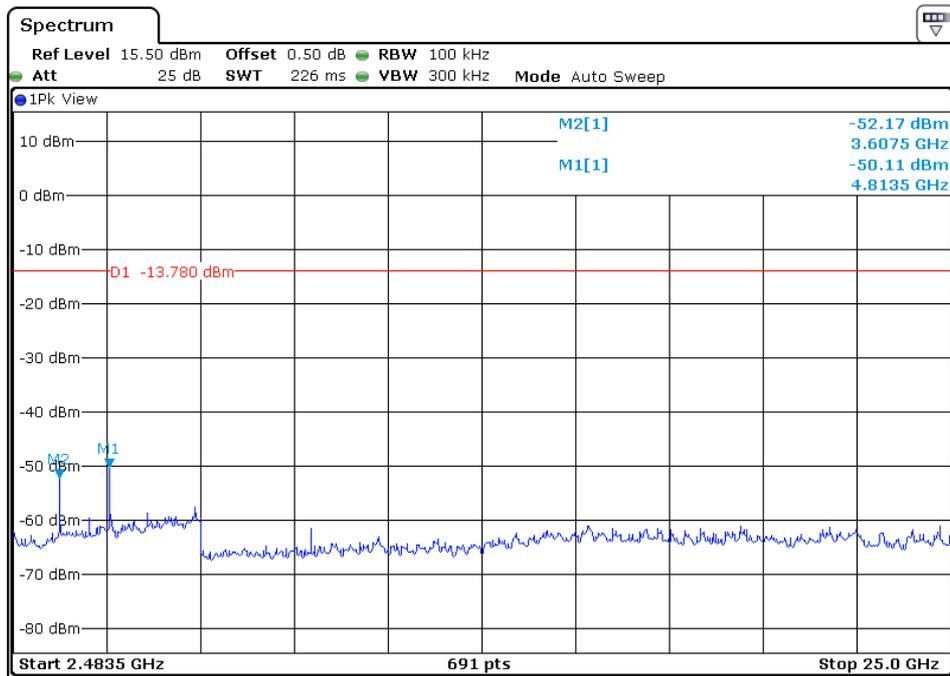
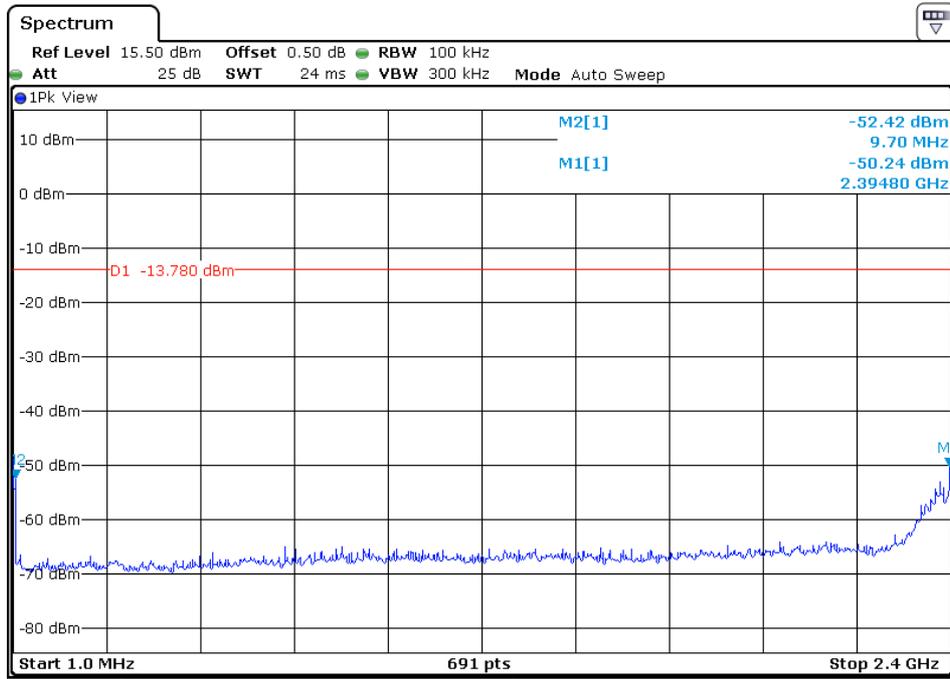
Refer to the attached test plot for out of band conducted emissions data with rate of 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n HT20 and 13.5Mbps for 802.11n HT40.

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.

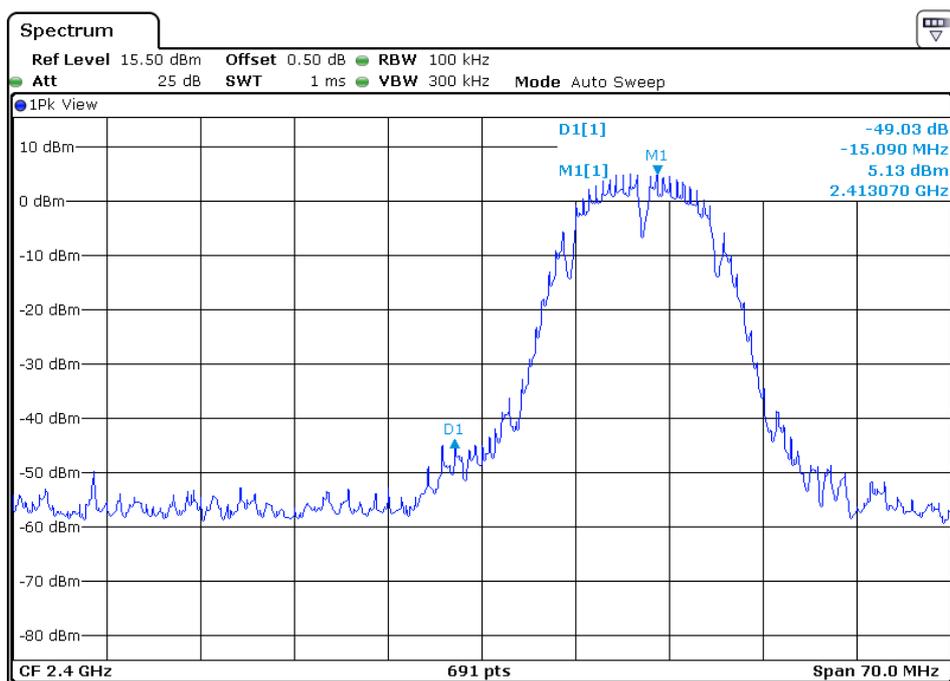
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802.11b
Channel 1 (2412MHz) Reference Level: 6.22dBm



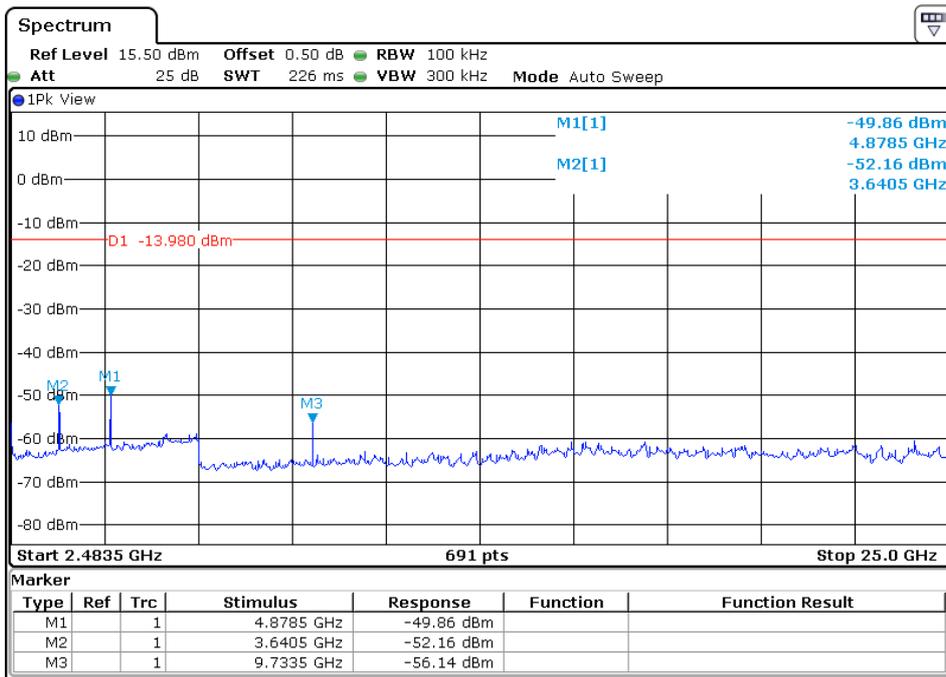
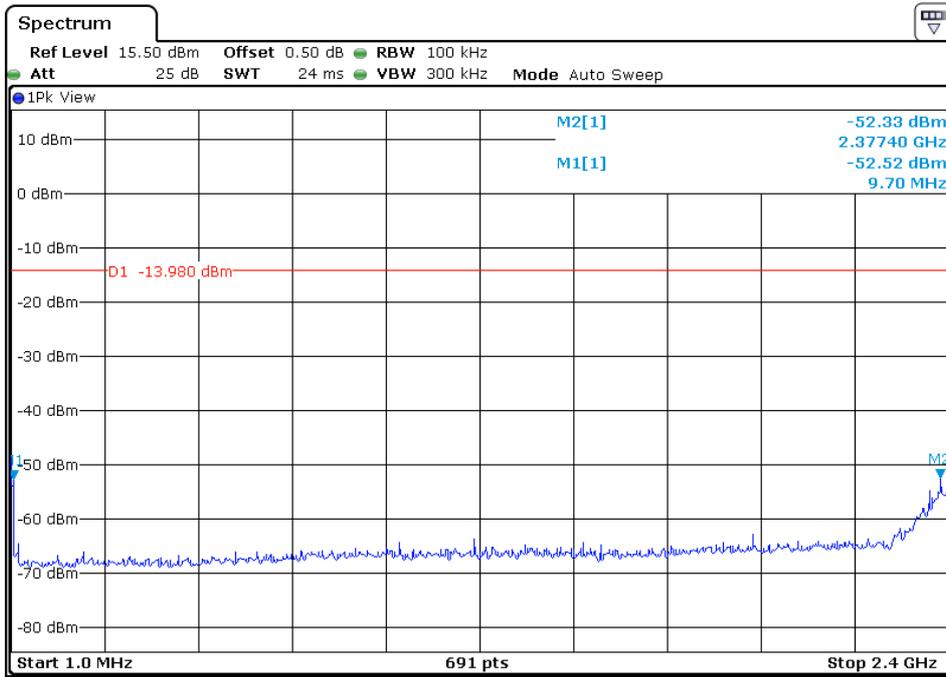
TRF no.: FCC 15C_TX_b
FCC ID: QISY360-U23
Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

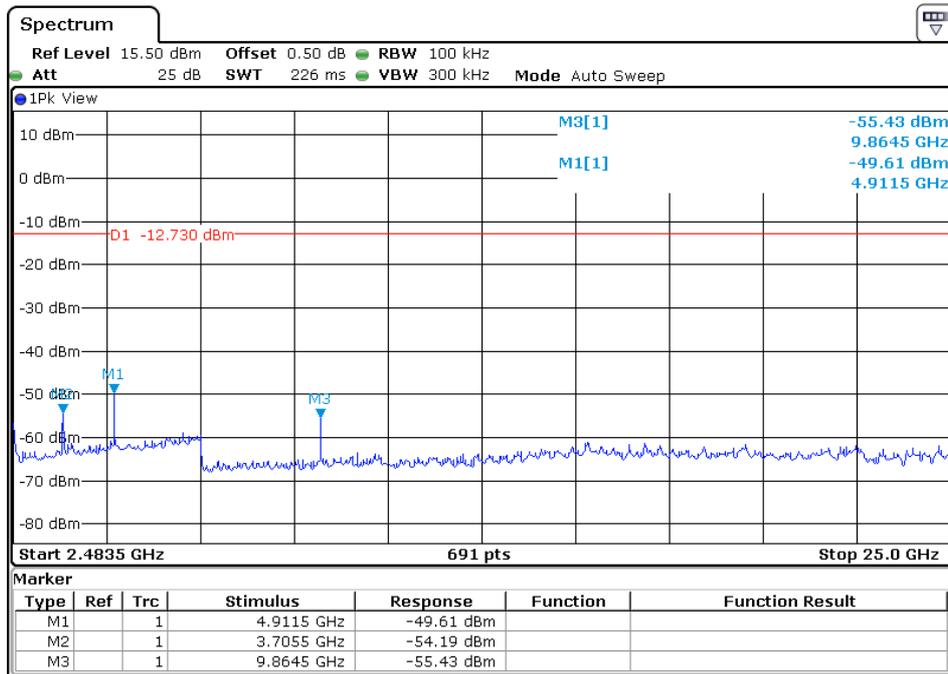
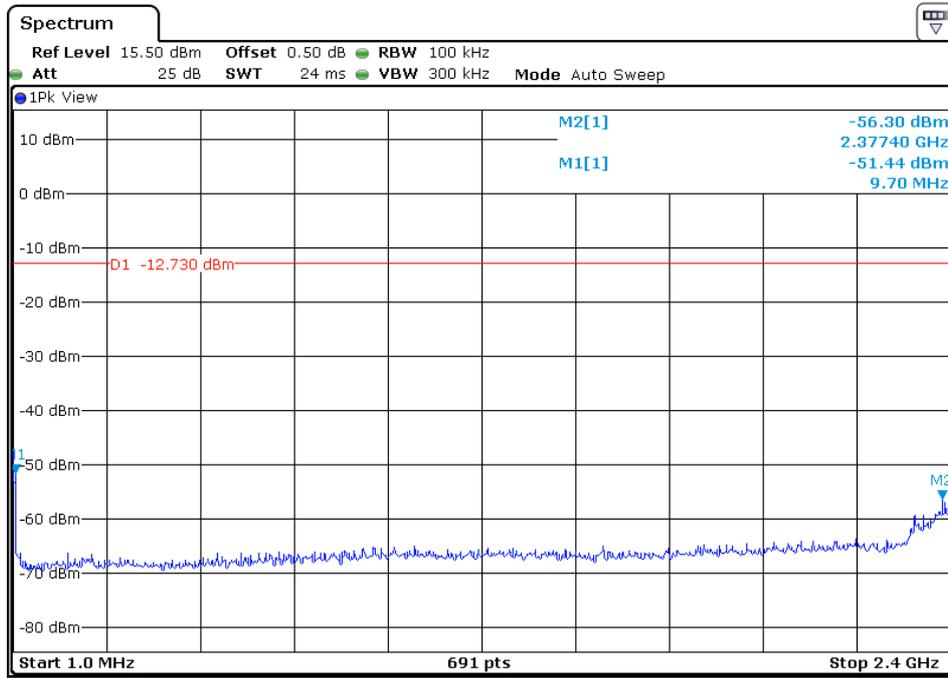
Channel 6 (2437MHz) Reference Level: 6.02dBm



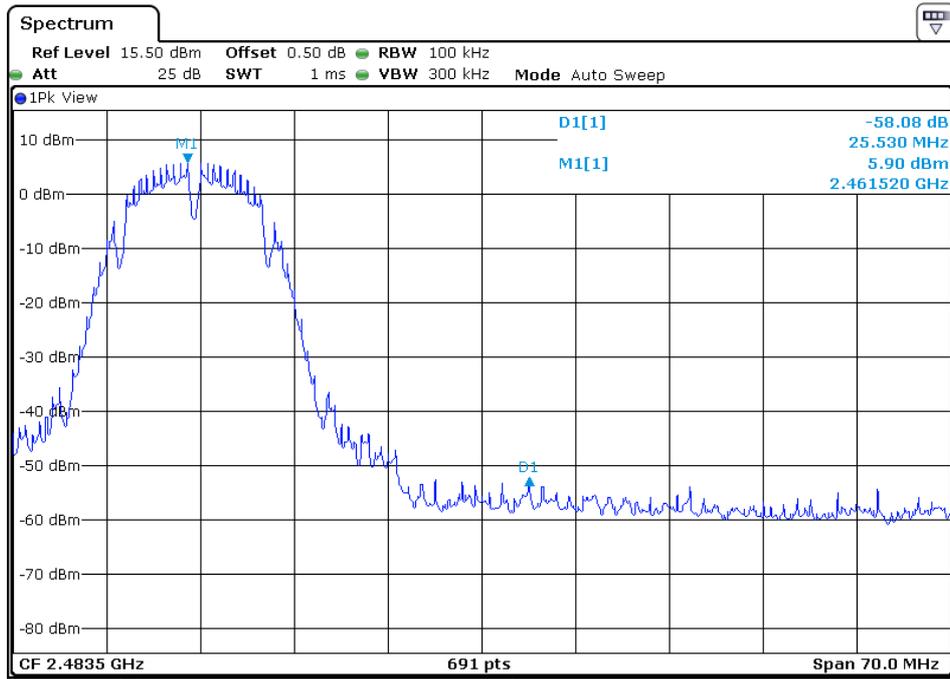
TRF no.: FCC 15C_TX_b
 FCC ID: QISY360-U23
 Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES

Channel 11 (2462MHz) Reference Level: 7.27dBm

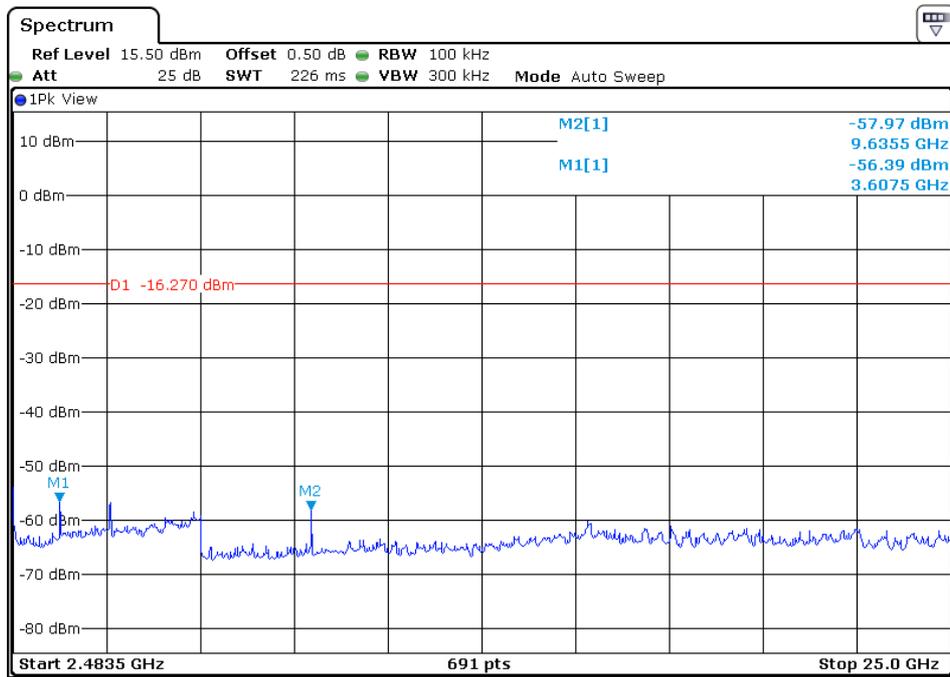
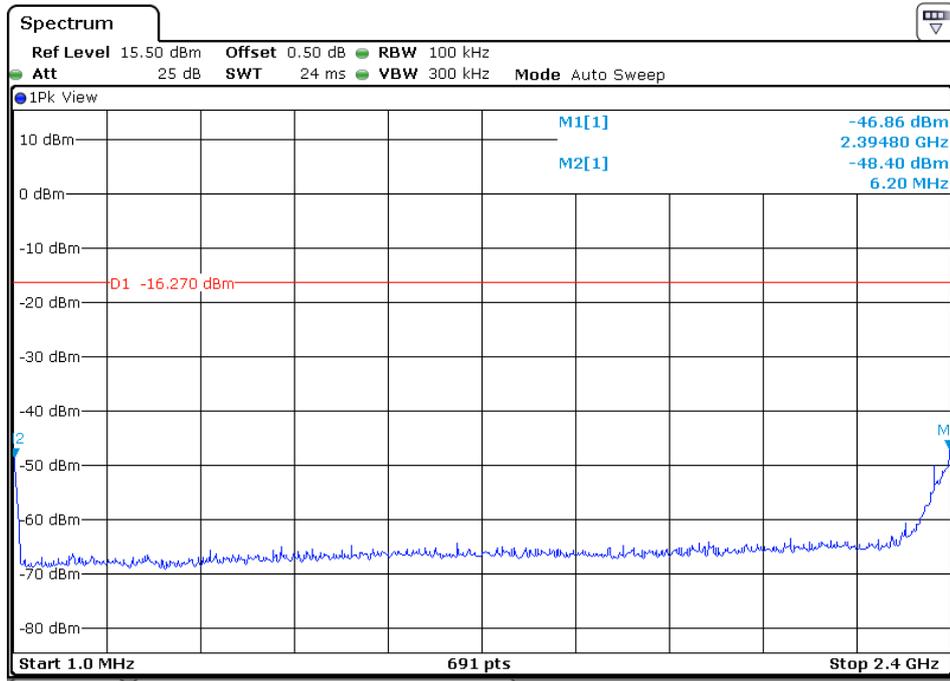


INTERTEK TESTING SERVICES



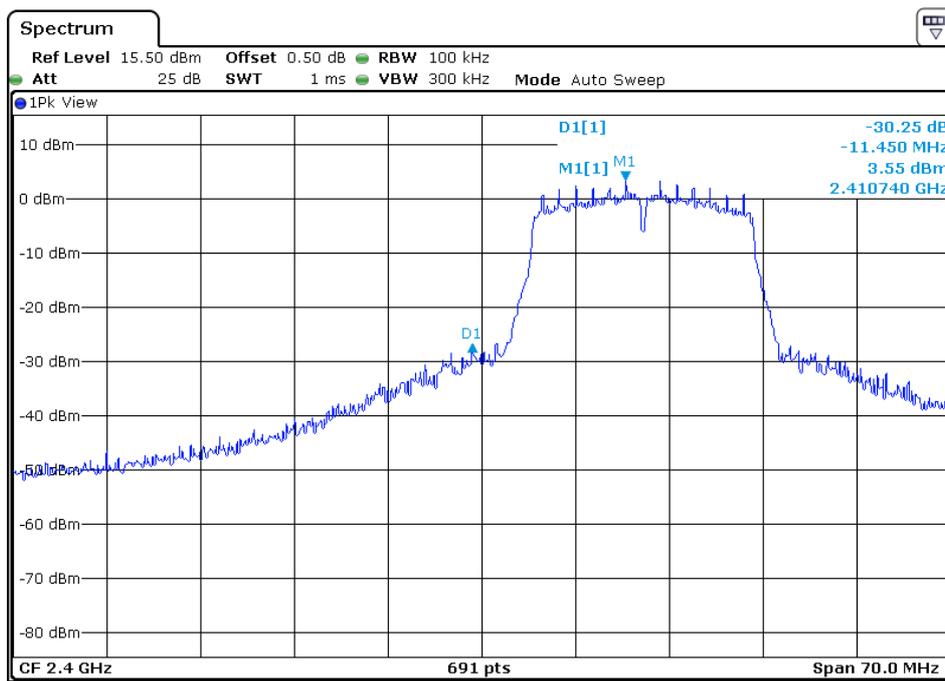
INTERTEK TESTING SERVICES

802.11g
Channel 1 (2412MHz) Reference Level: 3.73dBm



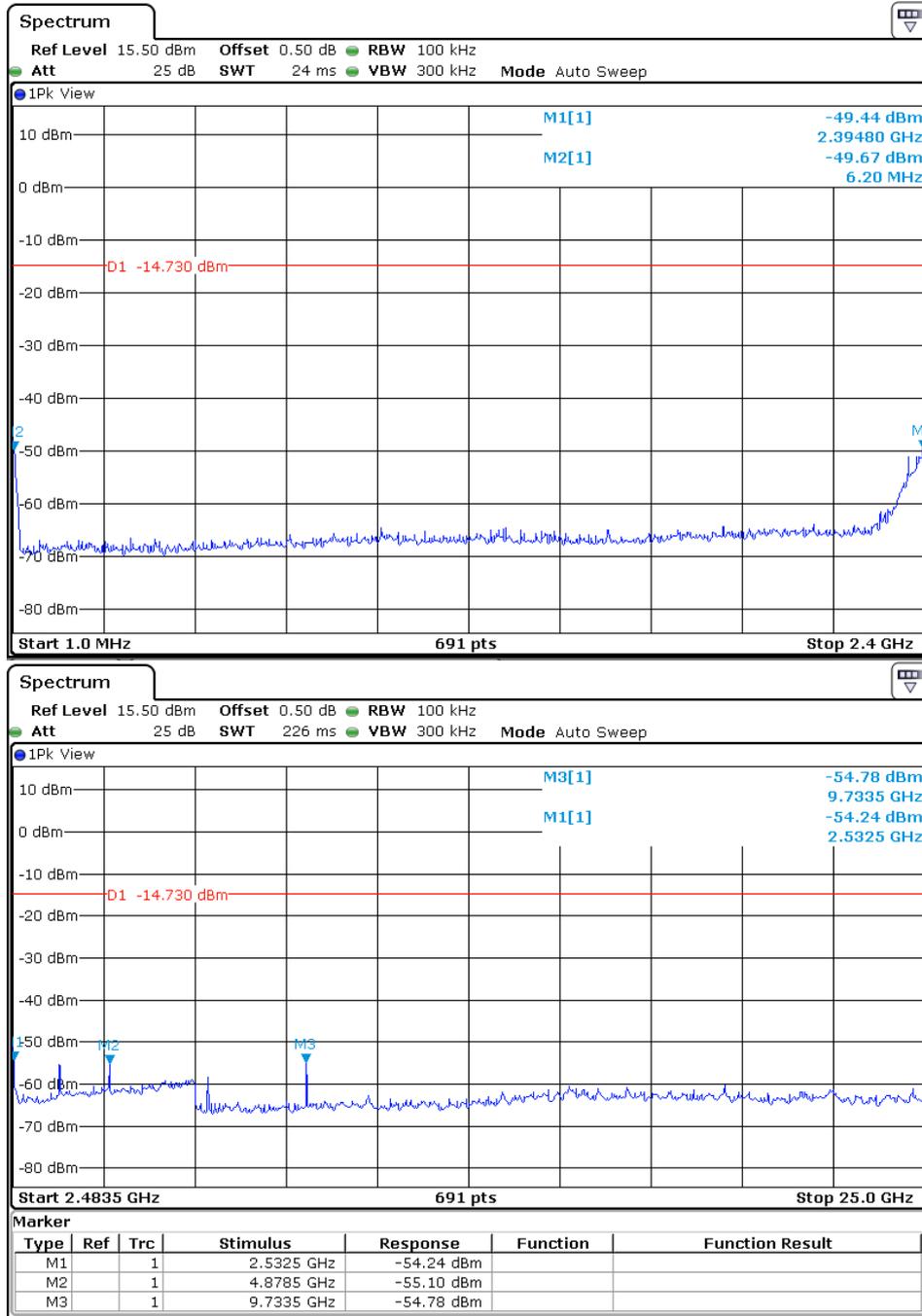
TRF no.: FCC 15C_TX_b
FCC ID: QISY360-U23
Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES



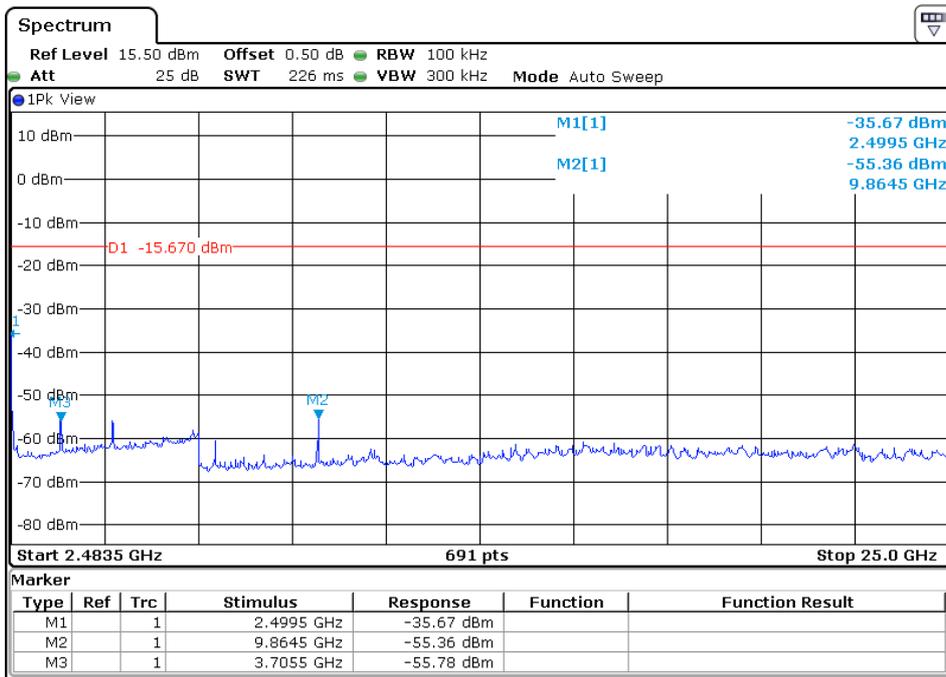
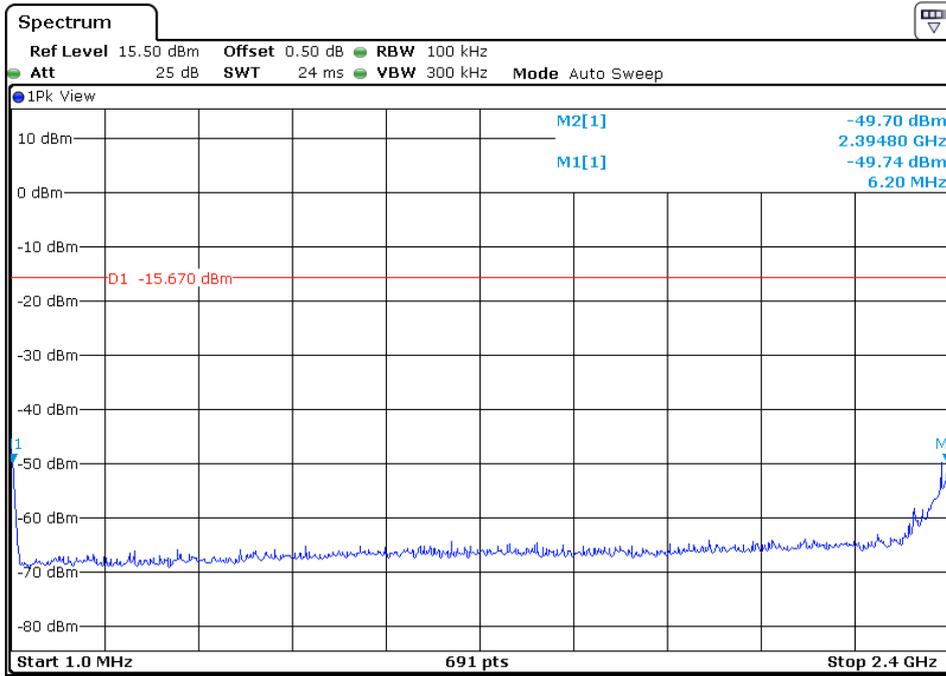
INTERTEK TESTING SERVICES

Channel 6 (2437MHz) Reference Level: 5.27dBm

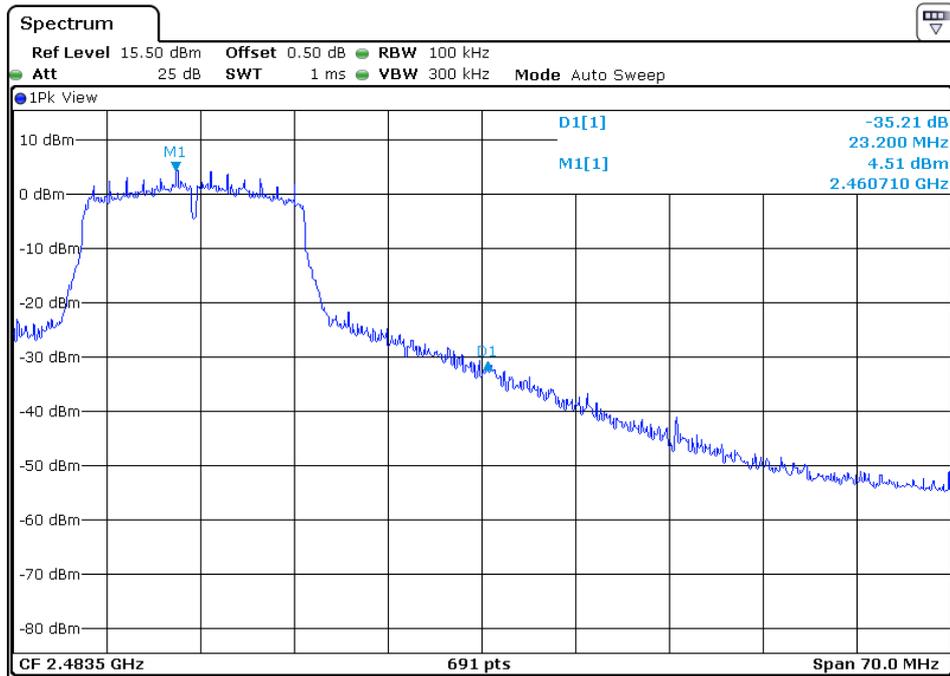


INTERTEK TESTING SERVICES

Channel 11 (2462MHz) Reference Level: 4.33dBm



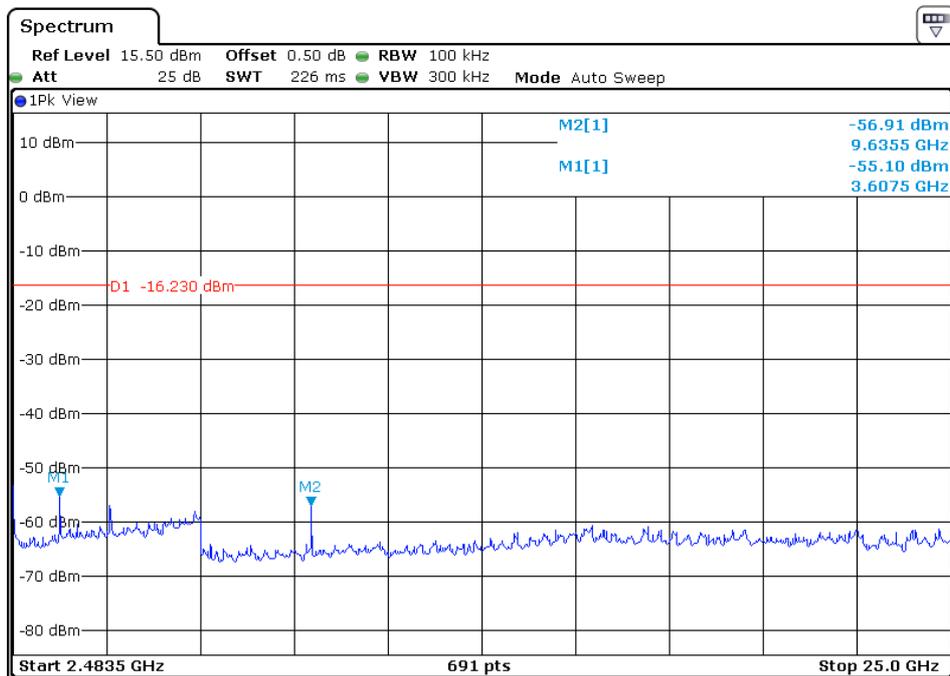
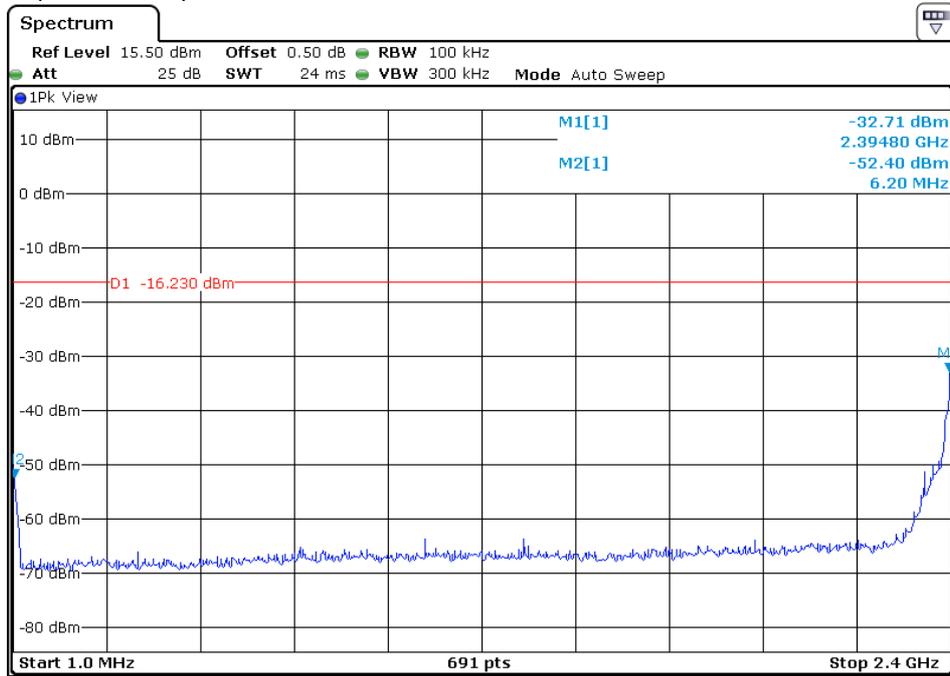
INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

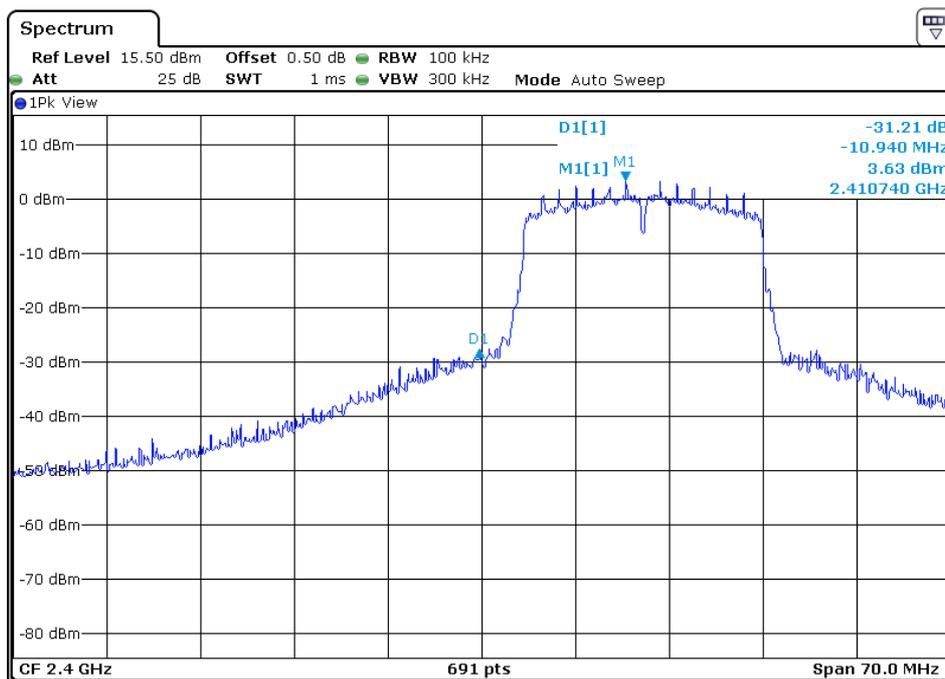
802.11n-HT20

Channel 1 (2412MHz) Reference Level: 3.77dBm



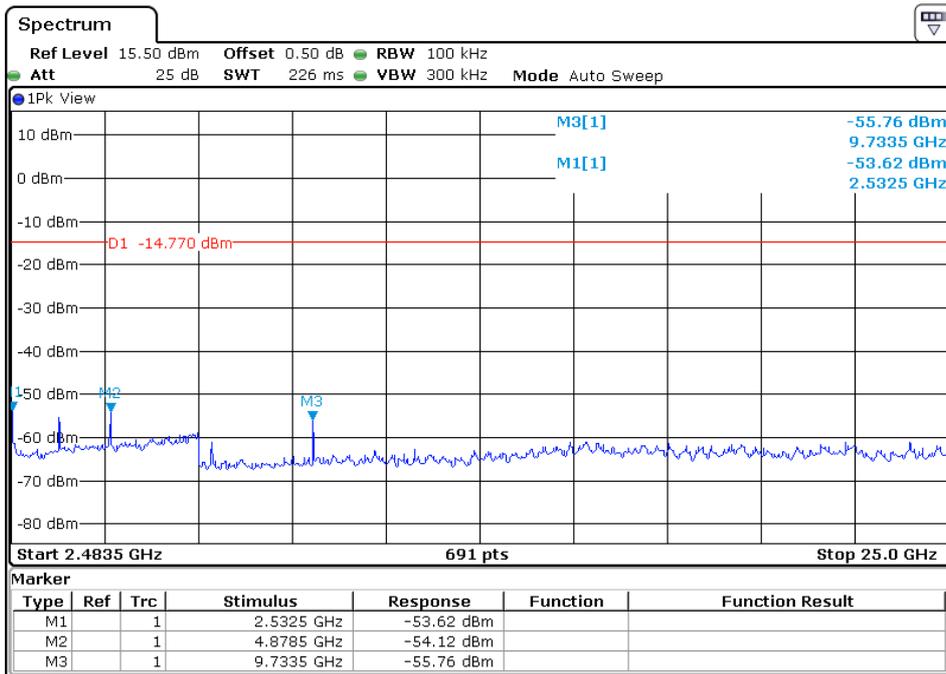
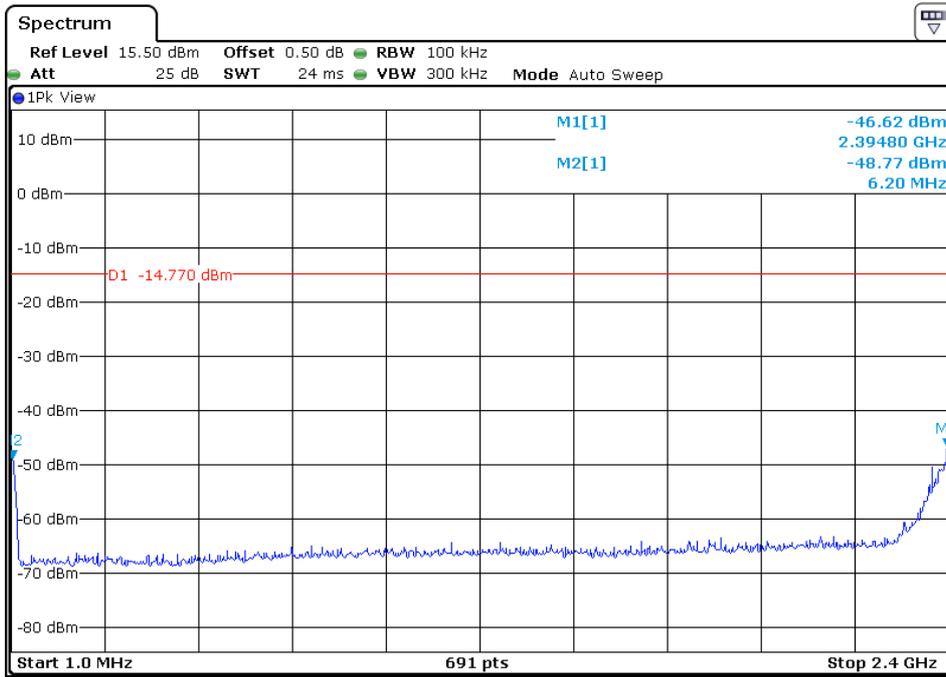
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FCC ID: QISY360-U23
Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

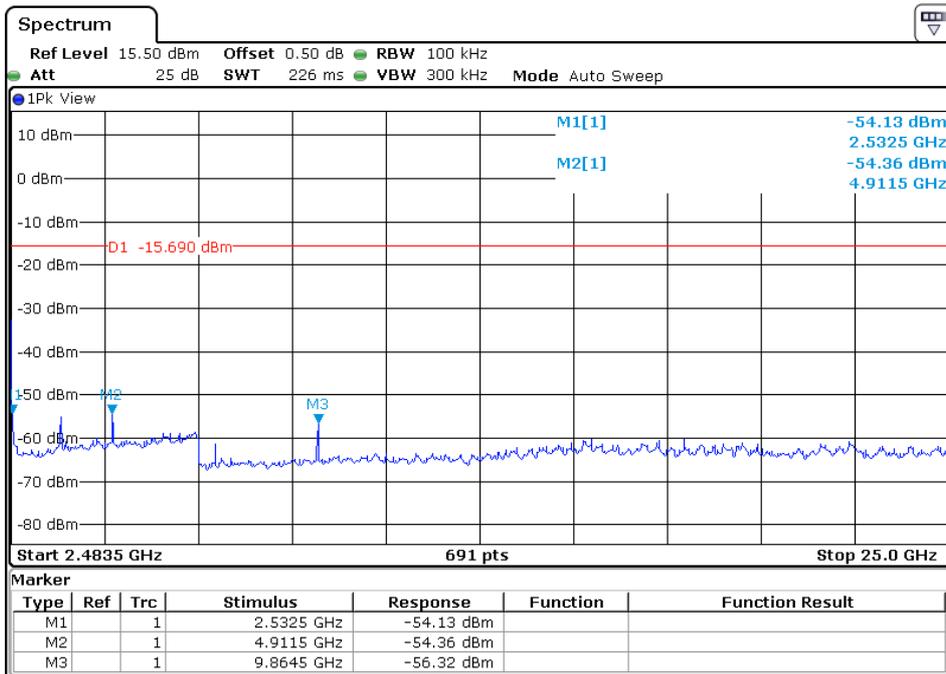
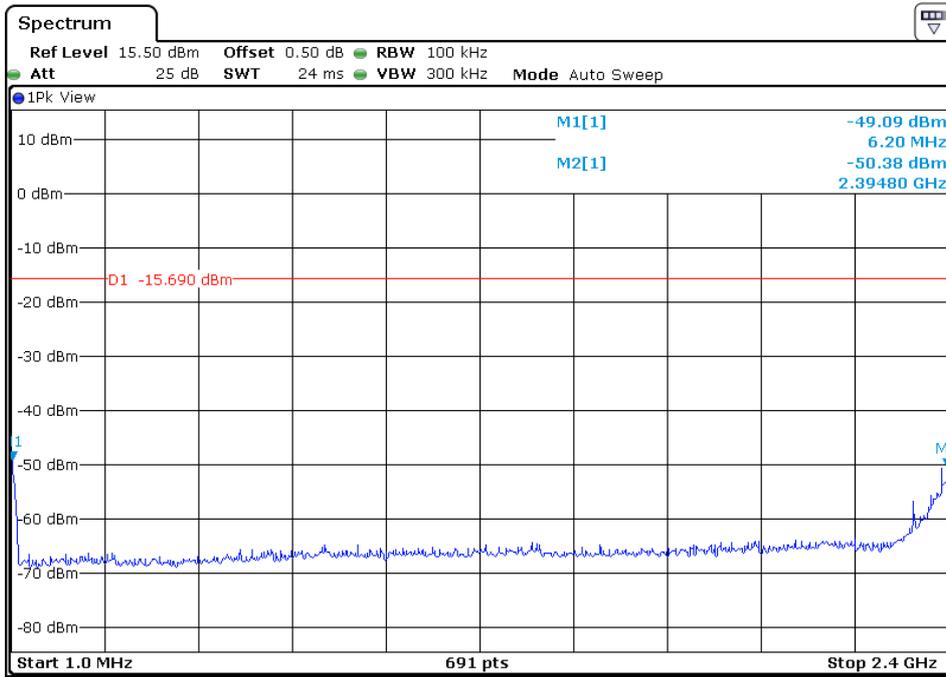
Channel 6 (2437MHz) Reference Level: 5.23dBm



TRF no.: FCC 15C_TX_b
 FCC ID: QISY360-U23
 Report No.: 150121004SZN-005

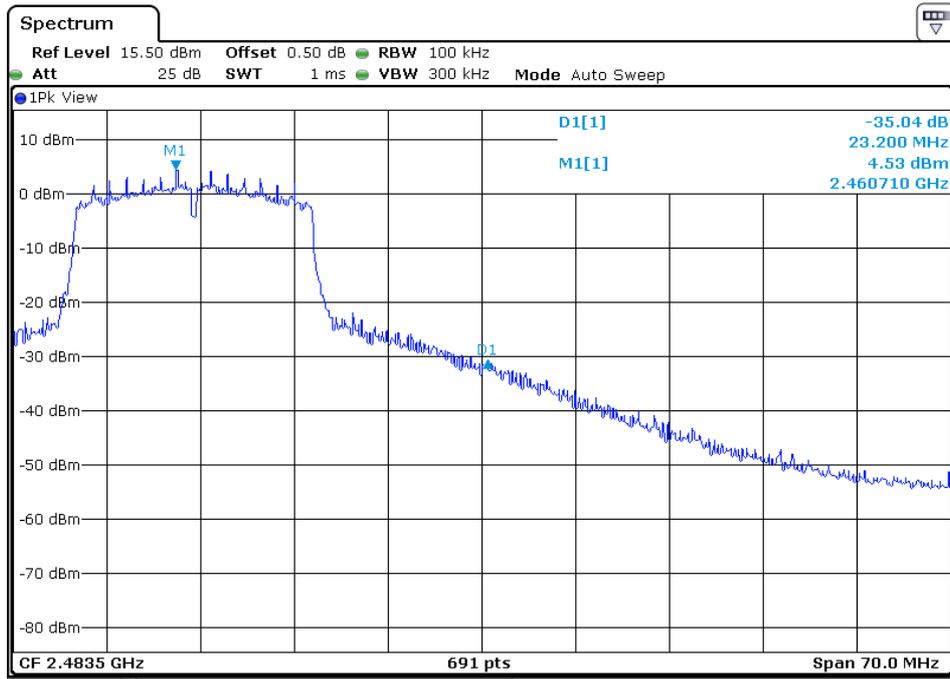
INTERTEK TESTING SERVICES

Channel 11 (2462MHz) Reference Level: 4.31dBm



TRF no.: FCC 15C_TX_b
 FCC ID: QISY360-U23
 Report No.: 150121004SZN-005

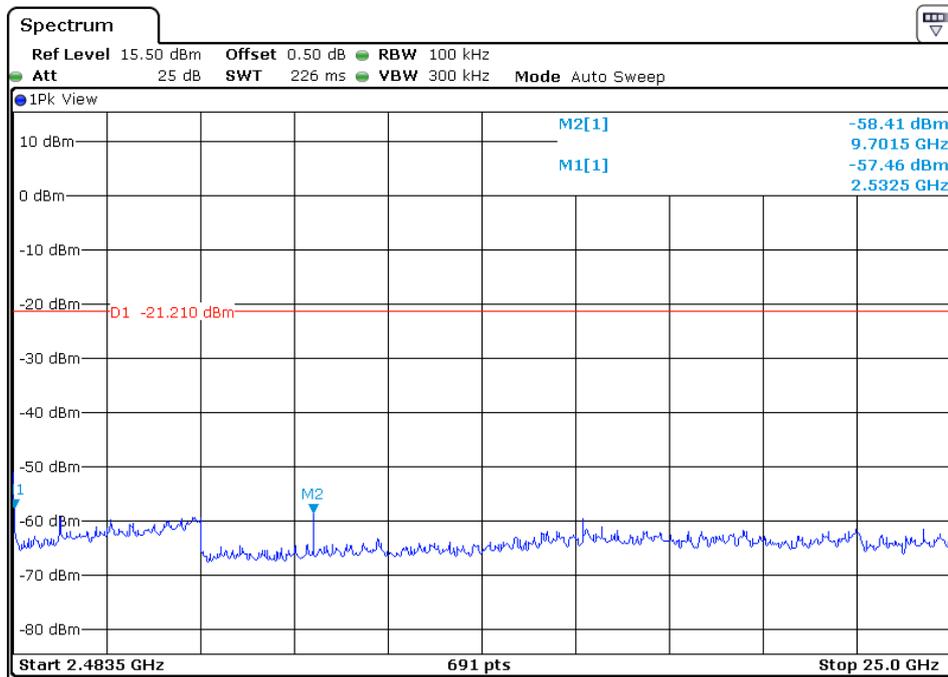
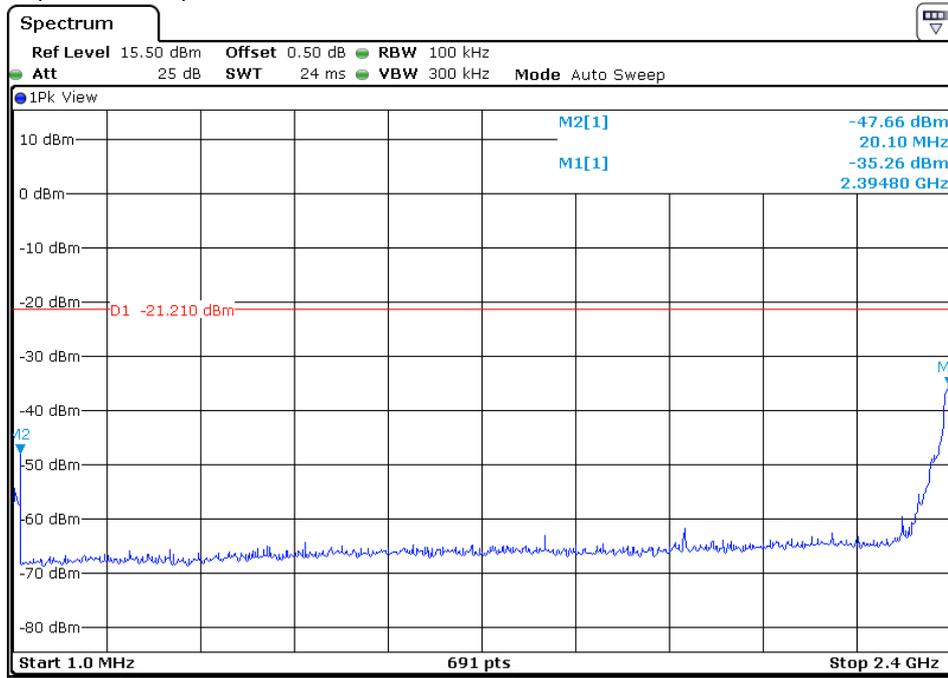
INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

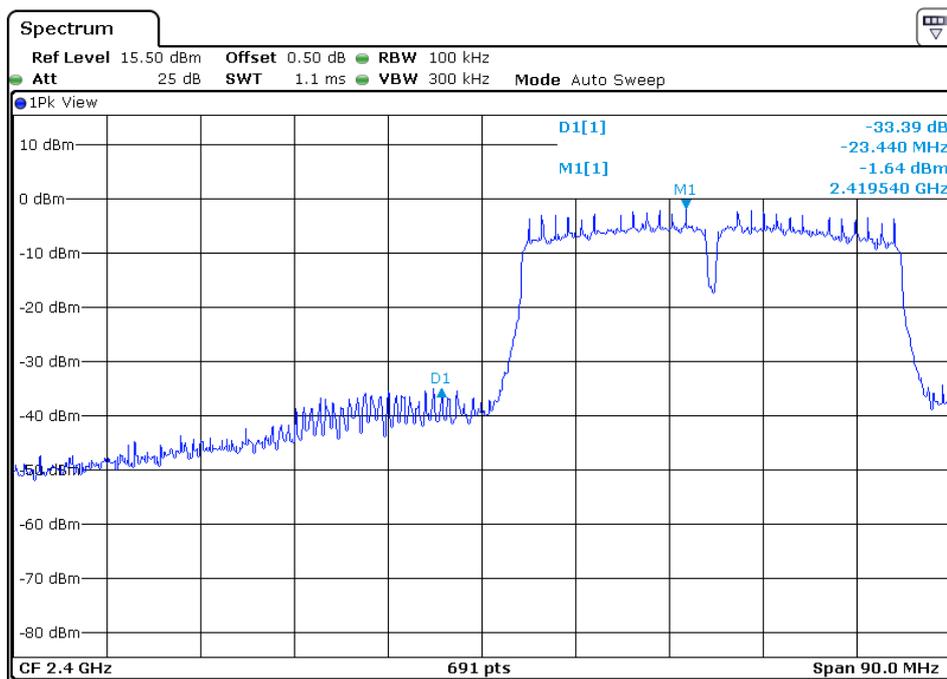
802.11n-HT40

Channel 3 (2422MHz) Reference Level: -1.21dBm



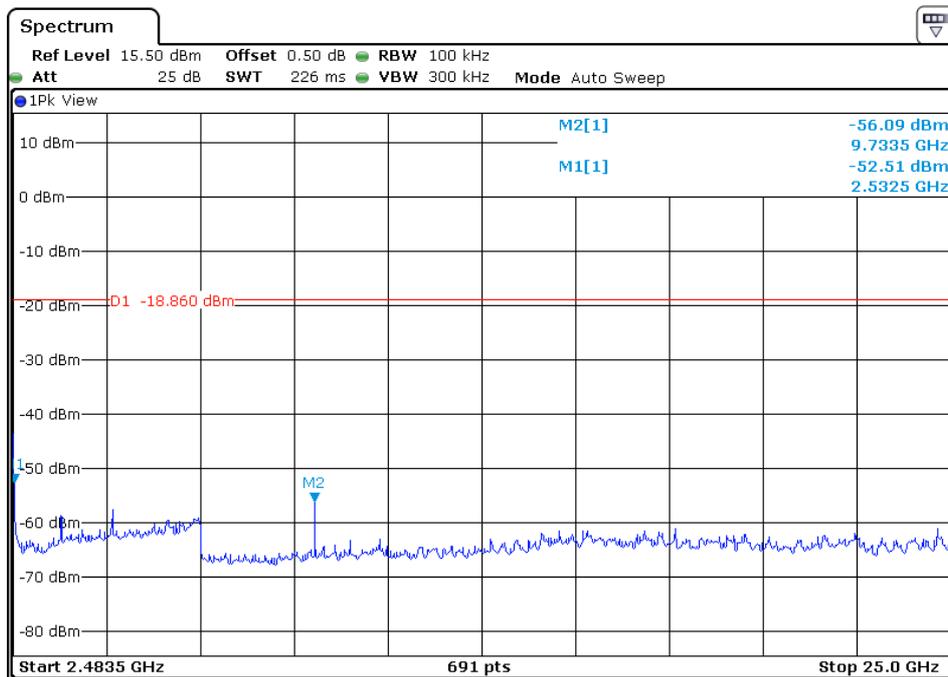
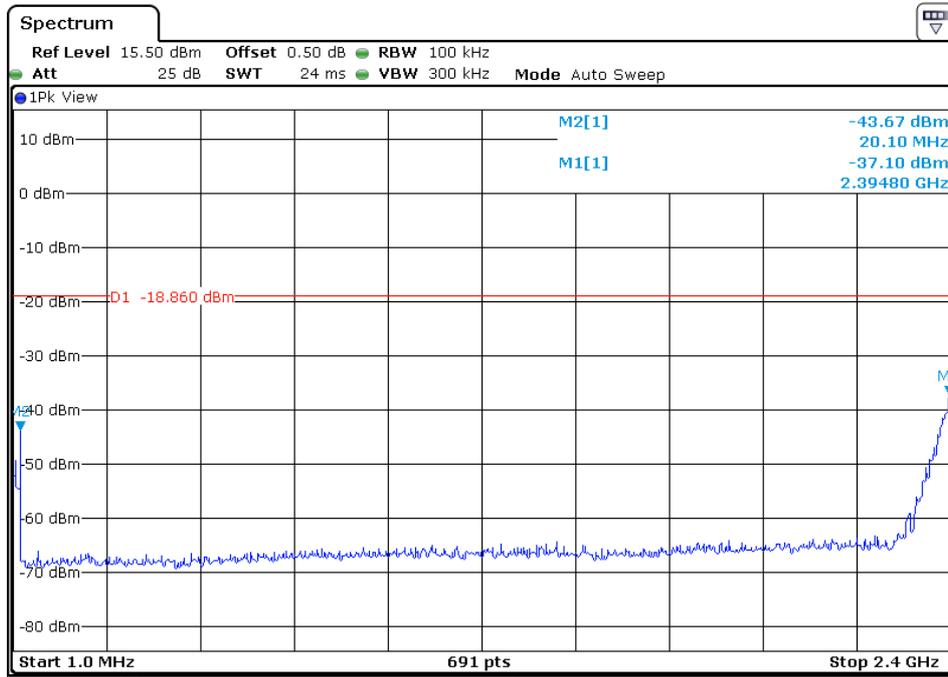
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INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

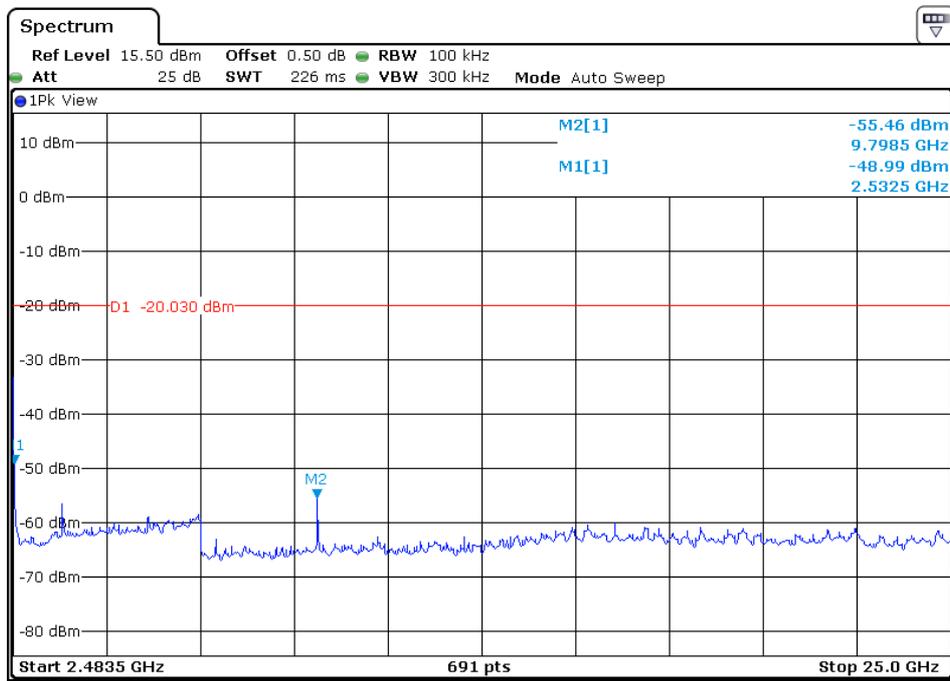
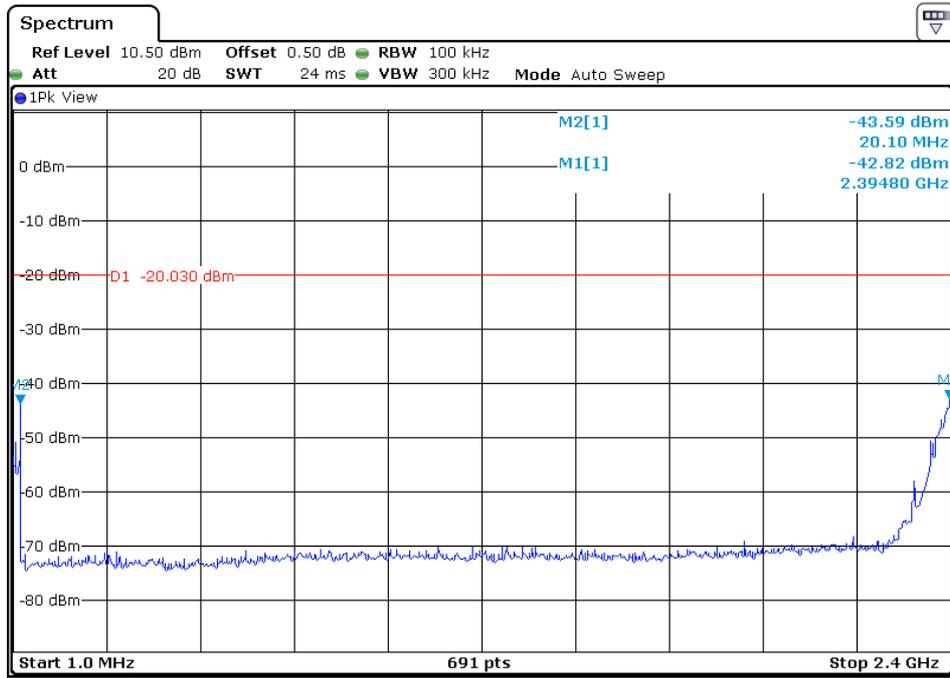
Channel 6 (2437MHz) Reference Level: 1.14dBm



TRF no.: FCC 15C_TX_b
 FCC ID: QISY360-U23
 Report No.: 150121004SZN-005

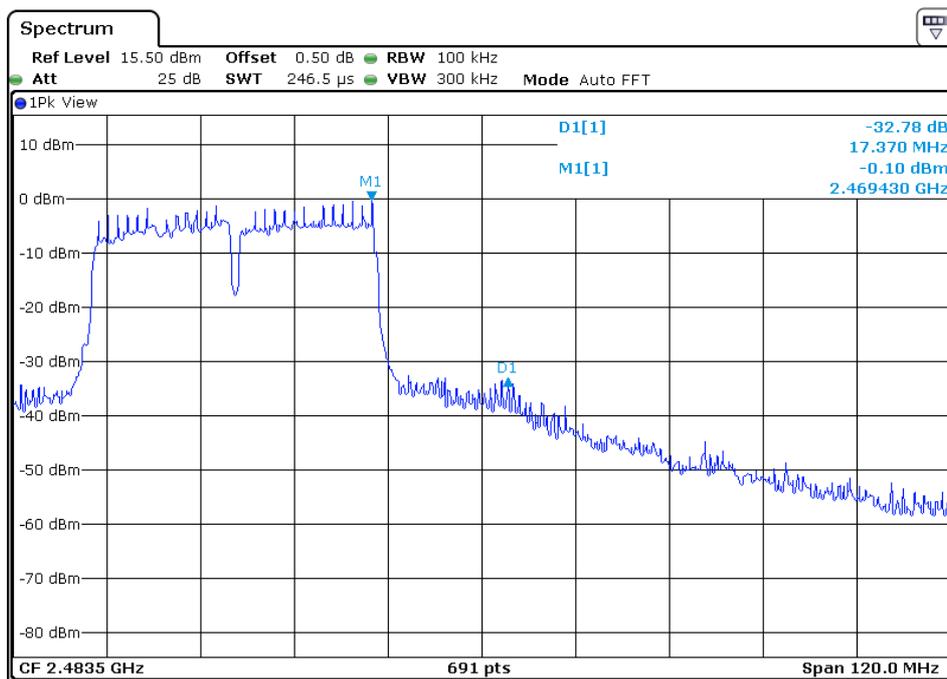
INTERTEK TESTING SERVICES

Channel 9 (2452MHz) Reference Level: -0.03dBm



TRF no.: FCC 15C_TX_b
FCC ID: QISY360-U23
Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd

Date of Test: 10 March 2015

Model: HUAWEI Y360-U23

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

Applicant: Huawei Technologies Co.,Ltd
Model: HUAWEI Y360-U23

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.

INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd
Model: HUAWEI Y360-U23

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 μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ 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 μ 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 42 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29.0 \text{ dB} \\ PD &= 0 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m} \end{aligned}$$

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

INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd
Model: HUAWEI Y360-U23

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission (802.11n-HT20 (Channel 11) at 4924.000 MHz is passed by 5.0 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.

INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd

Date of Test: 10 March 2015

Model: HUAWEI Y360-U23

Worst Case Operating Mode: 802.11n-HT20 (TX-Channel 11)

AC/DC Adapter: (HW-050055U1W) US plug

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	143.975	33.4	20.0	10.2	23.6	43.5	-19.9
Horizontal	207.000	33.0	20.0	12.1	25.1	43.5	-18.4
Horizontal	695.905	28.2	20.0	25.4	33.6	46.0	-12.4
Vertical	30.000	30.7	20.0	17.5	28.2	40.0	-11.8
Vertical	43.089	36.7	20.0	10.5	27.2	40.0	-12.8
Vertical	156.109	34.6	20.0	11.1	25.7	43.5	-17.8

- 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.

TRF no.: FCC 15C_TX_b

FCC ID: QISY360-U23

Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11b (TX-Channel 01)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	60.8	36.7	34.2	58.3	74.0	-15.7
Horizontal	*7236.000	58.3	36.7	36.9	58.5	74.0	-15.5
Horizontal	*2389.320	72.3	36.2	28.2	64.3	74.0	-9.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	50.1	36.7	34.2	47.6	54.0	-6.4
Horizontal	*7236.000	46.8	36.7	36.9	47.0	54.0	-7.0
Horizontal	*2389.320	54.5	36.2	28.2	46.5	54.0	-7.5

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11b (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	59.9	36.7	34.6	57.8	74.0	-16.2
Horizontal	*7311.000	54.6	36.7	37.1	55.0	74.0	-19.0

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	50.3	36.7	34.6	48.2	54.0	-5.8
Horizontal	*7311.000	46.2	36.7	37.1	46.6	54.0	-7.4

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11b (TX-Channel 11)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	60.7	36.7	34.6	58.6	74.0	-15.4
Horizontal	*7386.000	57.4	36.7	37.2	57.9	74.0	-16.1
Horizontal	*2484.839	65.9	36.2	28.0	57.7	74.0	-16.3

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	49.7	36.7	34.6	47.6	54.0	-6.4
Horizontal	*7386.000	47.2	36.7	37.2	47.7	54.0	-6.3
Horizontal	*2484.839	53.2	36.2	28.0	45.0	54.0	-9.0

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11g (TX-Channel 01)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	60.6	36.7	34.2	58.1	74.0	-15.9
Horizontal	*7236.000	58.0	36.7	36.9	58.2	74.0	-15.8
Horizontal	*2389.024	74.9	36.2	27.8	66.5	74.0	-7.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	50.5	36.7	34.2	48.0	54.0	-6.0
Horizontal	*7236.000	46.9	36.7	36.9	47.1	54.0	-6.9
Horizontal	*2389.024	54.6	36.2	27.8	46.2	54.0	-7.8

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11g (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	60.6	36.7	34.6	58.5	74.0	-15.5
Horizontal	*7311.000	57.4	36.7	37.1	57.8	74.0	-16.2

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	50.1	36.7	34.6	48.0	54.0	-6.0
Horizontal	*7311.000	45.8	36.7	37.1	46.2	54.0	-7.8

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11g (TX-Channel 11)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	60.8	36.7	34.6	58.7	74.0	-15.3
Horizontal	*7386.000	57.1	36.7	37.2	57.6	74.0	-16.4
Horizontal	*2484.553	70.1	36.2	28.0	61.9	74.0	-12.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	50.3	36.7	34.6	48.2	54.0	-5.8
Horizontal	*7386.000	47.4	36.7	37.2	47.9	54.0	-6.1
Horizontal	*2484.553	54.2	36.2	28.0	46.0	54.0	-8.0

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11n-HT20 (TX-Channel 01)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	61.5	36.7	34.2	59.0	74.0	-15.0
Horizontal	*7236.000	58.0	36.7	36.9	58.2	74.0	-15.8
Horizontal	*2389.685	74.8	36.2	27.8	66.4	74.0	-7.6

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	50.5	36.7	34.2	48.0	54.0	-6.0
Horizontal	*7236.000	46.8	36.7	36.9	47.0	54.0	-7.0
Horizontal	*2389.685	54.6	36.2	27.8	46.2	54.0	-7.8

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11n-HT20 (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	61.0	36.7	34.2	58.5	74.0	-15.5
Horizontal	*7311.000	57.5	36.7	37.1	57.9	74.0	-16.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	50.0	36.7	34.2	47.5	54.0	-6.5
Horizontal	*7311.000	45.6	36.7	37.1	46.0	54.0	-8.0

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11n-HT20 (TX-Channel 11)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	60.8	36.7	34.6	58.7	74.0	-15.3
Horizontal	*7386.000	57.7	36.7	37.2	58.2	74.0	-15.8
Horizontal	*2485.780	68.9	36.2	27.8	60.5	74.0	-13.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	51.1	36.7	34.6	49.0	54.0	-5.0
Horizontal	*7386.000	48.1	36.7	37.2	48.6	54.0	-5.4
Horizontal	*2485.780	53.4	36.2	27.8	45.0	54.0	-9.0

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11n-HT40 (TX-Channel 03)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4844.000	61.1	36.7	34.2	58.6	74.0	-15.4
Horizontal	*7266.000	58.4	36.7	37.1	58.8	74.0	-15.2
Horizontal	*2389.156	69.5	36.2	27.7	61.0	74.0	-13.0

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4844.000	50.7	36.7	34.2	48.2	54.0	-5.8
Horizontal	*7266.000	47.1	36.7	37.1	47.5	54.0	-6.5
Horizontal	*2389.156	55.0	36.2	27.7	46.5	54.0	-7.5

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11n-HT40 (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	61.5	36.7	34.2	59.0	74.0	-15.0
Horizontal	*7311.000	57.8	36.7	37.1	58.2	74.0	-15.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	51.0	36.7	34.2	48.5	54.0	-5.5
Horizontal	*7311.000	45.9	36.7	37.1	46.3	54.0	-7.7

- 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

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Mode: 802.11n-HT40 (TX-Channel 9)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4904.000	61.1	36.7	34.6	59.0	74.0	-15.0
Horizontal	*7356.000	58.0	36.7	37.0	58.3	74.0	-15.7
Horizontal	*2484.668	66.0	36.2	28.0	57.8	74.0	-16.2

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4904.000	50.7	36.7	34.6	48.6	54.0	-5.4
Horizontal	*7356.000	48.4	36.7	37.0	48.7	54.0	-5.3
Horizontal	*2484.668	54.2	36.2	28.0	46.0	54.0	-8.0

- 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

4.9 Conducted Emission

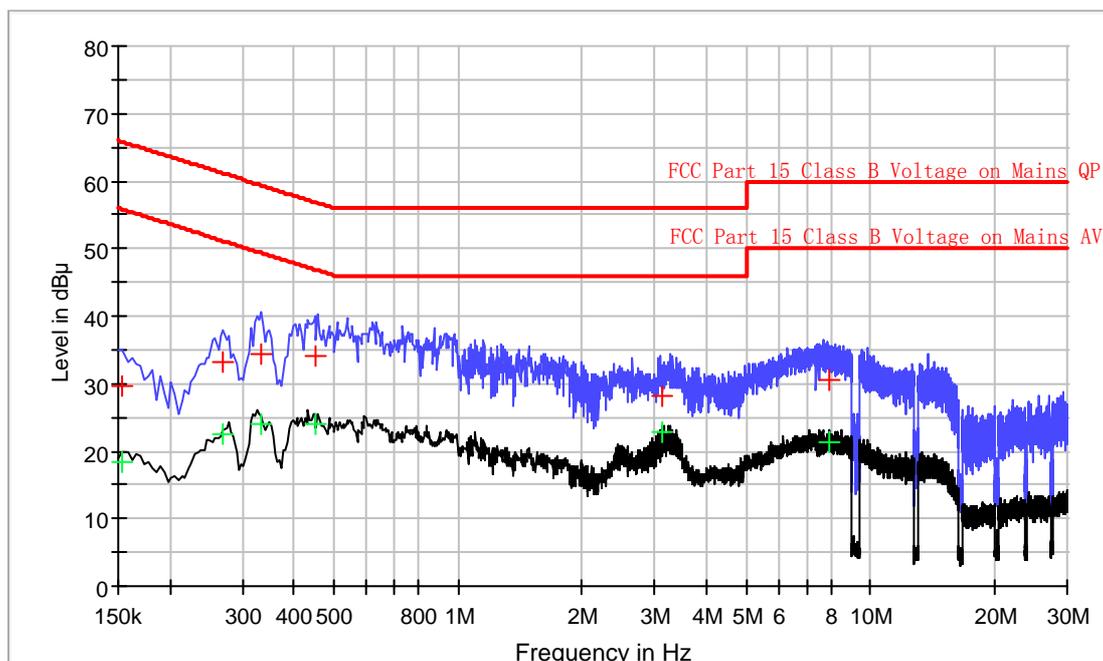
Worst Case Conducted emission at 3.262MHz is Passed by 22.3 dB margin

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

INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Worst Case Operating Mode: 802.11n-HT20 (TX-Channel 11)
 Adapter: (HW-050055U1W) US plug

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.154	29.7	L1	9.8	36.1	65.8
0.270	33.1	L1	9.8	28.0	61.1
0.334	34.3	L1	9.8	25.1	59.4
0.450	34.0	L1	9.8	22.9	56.9
3.138	28.1	L1	9.9	27.9	56.0
7.958	30.5	L1	10.1	29.5	60.0

Result Table AV

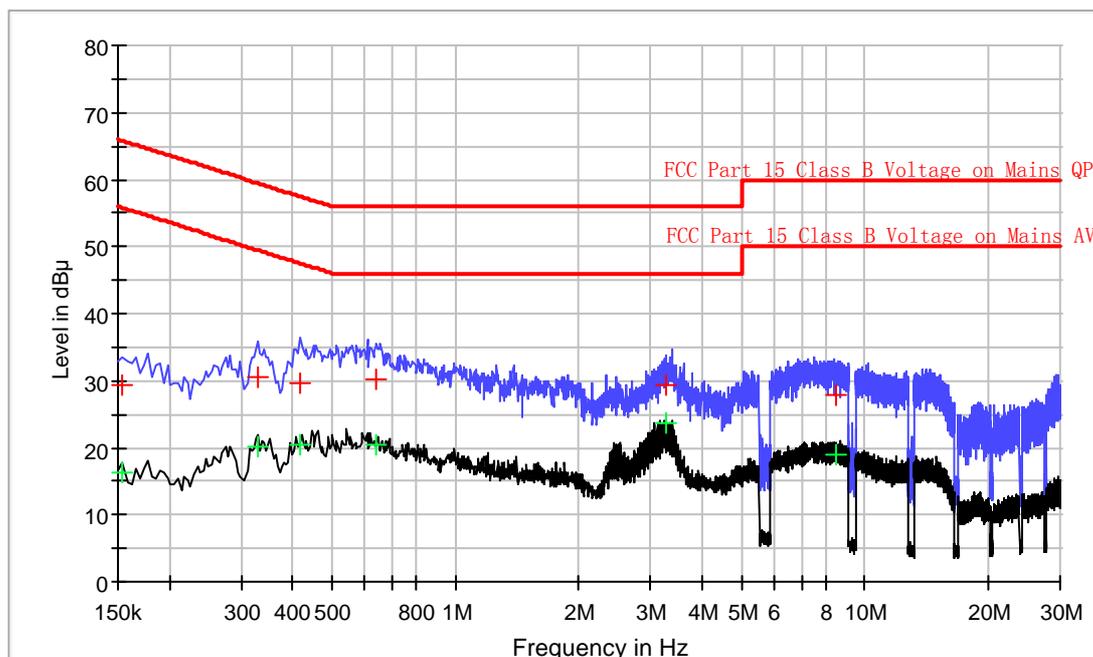
Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.154	18.3	L1	9.8	37.5	55.8
0.270	22.5	L1	9.8	28.6	51.1
0.334	24.1	L1	9.8	25.3	49.4
0.450	24.1	L1	9.8	22.8	46.9
3.138	22.7	L1	9.9	23.3	46.0
7.958	21.4	L1	10.1	28.6	50.0

TRF no.: FCC 15C_TX_b
 FCC ID: QISY360-U23
 Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd
 Date of Test: 10 March 2015
 Model: HUAWEI Y360-U23
 Worst Case Operating Mode: 802.11n-HT20 (TX-Channel 11)
 Adapter: (HW-050055U1W) US plug

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.154	29.4	N	10.0	36.4	65.8
0.330	30.4	N	10.1	29.1	59.5
0.418	29.7	N	10.1	27.8	57.5
0.642	30.2	N	10.2	25.8	56.0
3.262	29.4	N	10.3	26.6	56.0
8.506	27.7	N	10.4	32.3	60.0

Result Table AV

Frequency (MHz)	Average (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.154	16.3	N	10.0	39.5	55.8
0.330	20.0	N	10.1	29.5	49.5
0.418	20.4	N	10.1	27.1	47.5
0.642	20.4	N	10.2	25.6	46.0
3.262	23.7	N	10.3	22.3	46.0
8.506	19.1	N	10.4	30.9	50.0

TRF no.: FCC 15C_TX_b
 FCC ID: QISY360-U23
 Report No.: 150121004SZN-005

INTERTEK TESTING SERVICES

Applicant: Huawei Technologies Co.,Ltd
Date of Test: 10 March 2015
Model: HUAWEI Y360-U23

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

Applicant: Huawei Technologies Co.,Ltd

Date of Test: 10 March 2015

Model: HUAWEI Y360-U23

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

EXHIBIT 5

EQUIPMENT PHOTOGRAPHS

INTERTEK TESTING SERVICES

5.0 Equipment Photographs

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

INTERTEK TESTING SERVICES

EXHIBIT 6

PRODUCT LABELLING

INTERTEK TESTING SERVICES

6.0 Product Labelling

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

INTERTEK TESTING SERVICES

EXHIBIT 7
TECHNICAL SPECIFICATIONS

INTERTEK TESTING SERVICES

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

EXHIBIT 8

INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

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

EXHIBIT 9

MISCELLANEOUS INFORMATION

INTERTEK TESTING SERVICES

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.

INTERTEK TESTING SERVICES

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	7-Feb-2015	7-Feb-2016
SZ061-09	Horn Antenna	ETS	3115	00092346	16-Nov-2014	16-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	3008A0247 4	7-Feb-2015	7-Feb-2016
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	19-Apr-2014	19-Apr-2015
SZ062-02	RF Cable	RADIALL	RG 213U	--	19-Oct-2014	19-Apr-2015
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	19-Oct-2014	19-Apr-2015
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	19-Oct-2014	19-Apr-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	9-Nov-2015
SZ188-03	Shielding Room	ETS	RFD-100	4100	23-Aug-2014	23-Aug-2015