



TEST REPORT FOR WLAN TESTING

Report No.: SRTC2016-9004(F)-0007

Product Name: GSM/GPRS/EGPRS/UMTS/LTE Digital Mobile Phone

with Bluetooth and WiFi

Product Model: Philips Xenium V787

Applicant: Shenzhen Sang Fei Consumer Communications Co.,Ltd.

Manufacturer: Shenzhen Sang Fei Consumer Communications Co.,Ltd.

Specification: FCC Part 15, Subpart C (August 20, 2015 edition)

FCC ID: VQRCTV787

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China



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1. GENERAL INFORMATION

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

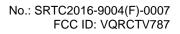
Company:	The State Radio_monitoring_center Testing Center (SRTC)	
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1.3 Applicant's details

Company:	Shenzhen Sang Fei Consumer Communications Co.,Ltd.	
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	District	
City:	Shenzhen	
Country or Region:	P.R.China	
Grantee Code:	VQR	
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1.4 Manufacturer's details

Company:	Shenzhen Sang Fei Consumer Communications Co.,Ltd.	
Address:	11 Science & Technology Rd., Shenzhen Hi-tech Industrial Park, Nanshan	
	District	
City:	Shenzhen	
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Fax:	010-68300097	
Email:	linda.zhang@sangfei.com	



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1.5 Test Environment

Date of Receipt of test sample at SRTC:	2016.01.21
Testing Start Date:	2016.01.26
Testing End Date:	2016.01.27

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	38
Maximum Extreme	55	80
Minimum Extreme	-10	

Normal Supply Voltage (V d.c.):	3.80
Maximum Extreme Supply Voltage (V d.c.):	4.35
Minimum Extreme Supply Voltage (V d.c.):	3.50

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2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1Final Equipment Build Status

Frequency Range	2.4GHz~2.4835GHz	
Number of Channel	11	
Modulation Type	DBPSK/DQPSK/CCK/BPSK/QPSK/16QAM/64QAM	
Duplex Mode	TDD	
Channel Spacing	5MHz	
	1Mbps/2Mbps/5.5Mbps/11Mbps/6Mbps/9Mbps/12Mbps	
	/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps/6.5Mbps	
Data Rate	/13.0Mbps/13.5Mbps/19.5Mbps/26.0Mbps/27.0Mbps	
	/39.0Mbps/40.5Mbps/52.0Mbps/58.5Mbps/65Mbps	
	/81.0Mbps/108.0Mbps/121.5Mbps/135.0Mbps	
Duty Cycles	98%	
Antenna Type	Fixed Internal	
Power Supply	Battery or Charger	
Rated Power Supply Voltage	3.8V	
HW Version	WMCVc	
SW Version	Philips_V787_1553_V01_AG_FCC	
IMEI	866636024833570	

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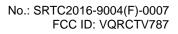


2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

Equipment	Battery
Manufacturer	Zhongshan Tianmao Battery Co.
Model Number	AB5000AWML
Serial Number	

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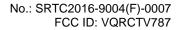
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3 REFERENCE SPECIFICATION

Specification	Version	Title
15.35	Mar. 6, 2014	Measurement detector functions and bandwidths.
15.209	Oct. 30, 1997	Radiated emission limits; general requirements.
15.247	May 1, 2014	Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

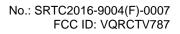




4 KEY TO NOTES AND RESULT CODES

The following are the definition of the test result.

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
N/T	Test case is not tested.
NTC	Nominal voltage, Normal Temperature
HV	High voltage, Normal Temperature
LV	Low voltage, Normal Temperature
HTHV	high voltage, High Temperature
LTHV	High voltage, Low Temperature
HTLV	Low voltage, High Temperature
LTLV	Low voltage, Low Temperature



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5 RESULT SUMMARY

No.	Test case	FCC reference	Verdict
1	Peak Power Output	15.247(b)(3)	Pass
2	Occupied Bandwidth	15.247(a)(2)	Pass
3	Transmitter Power Spectral Density	15.247(e)	Pass
4	Conducted Out of band emission measurement	15.247(d)	Pass
5	Spurious Radiated Emissions	15.247(d)/15.35(b)/15.209	Pass
6	AC Power line Conducted Emission	15.207	Pass

This Test Report Is Issued by:	Checked by:
Mr. Tao Hongb	Mr. Li Boyu
一种	李博宇
Tested by:	Issued date:
Mr. Jiang Shuo	2011/2/20
ivaa	2016/3/23

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6 TEST RESULT

6.1 Peak Power Output

6.1.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.1.2 Test Description

A transmitter antenna terminal of EUT is connected to the power meter. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies.

6.1.3 Test limit

FCC Part15.247(b)(3)

The maximum permissible conducted output power is 1 Watt. Used conversion factor: Limit (dBm) = 10 log (Limit (W)/1mW) ==> Maximum Output Power: 30.0 dBm

6.1.4 Test Procedure Used

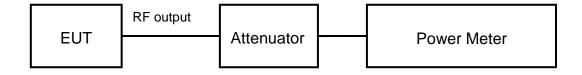
KDB 558074 D01 v03r02 - Section 9.1.2

6.1.5 Test Settings

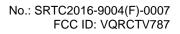
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

6.1.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



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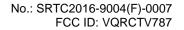


6.1.7 Test result

		Average power output (dBm)		
Mo	odulation type	2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
	1 Mbps	15.04	15.25	15.42
11b	2 Mbps	15.01	15.16	15.22
110	5.5 Mbps	14.87	15.01	15.03
	11 Mbps	14.42	14.82	14.92
	6 Mbps	10.55	12.78	10.76
	9 Mbps	10.21	12.56	10.43
	12 Mbps	10.02	12.21	10.11
110	18 Mbps	9.68	11.89	9.88
11g	24 Mbps	9.27	11.34	9.54
	36 Mbps	8.92	10.97	9.21
	48 Mbps	8.54	10.66	8.99
	54 Mbps	8.33	10.17	8.82
	6.5 Mbps	10.46	12.78	10.98
	13 Mbps	10.11	12.32	10.32
	19.5 Mbps	9.89	12.01	9.97
11n	26 Mbps	9.43	11.76	9.39
HT20	39 Mbps	9.21	11.32	9.02
	52 Mbps	8.89	10.92	8.88
	58.5 Mbps	8.56	10.43	8.71
	65 Mbps	8.11	9.56	8.67

		Average power output (dBm)		
Мо	Modulation type 2422MH (Ch3)		2437MHz (Ch6)	2462MHz (Ch11)
	13.5 Mbps	8.52	12.26	11.77
	27 Mbps	8.12	11.88	11.22
	40.5 Mbps	7.88	11.34	10.78
11n	54 Mbps	7.42	11.01	10.21
HT40	81 Mbps	7.01	10.56	9.66
	108 Mbps	6.68	9.92	9.09
	121.5 Mbps	5.92	8.87	8.48
	135 Mbps	5.20	7.48	7.42

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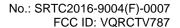




		Peak power output (dBm)		n)
Mod	dulation type	2412MHz 2437MHz 2462MHz (Ch1) (Ch6) (Ch11)		2462MHz (Ch11)
	1 Mbps	17.64	17.71	17.92
11b	2 Mbps	17.45	17.62	17.86
110	5.5 Mbps	17.56	17.61	17.90
	11 Mbps	17.61	17.68	17.88
	6 Mbps	20.23	20.79	20.02
	9 Mbps	20.43	21.54	20.89
	12 Mbps	20.12	21.02	20.67
11 -	18 Mbps	20.52	20.98	21.02
11g	24 Mbps	20.36	20.86	21.24
	36 Mbps	20.11	21.88	21.11
	48 Mbps	20.34	21.75	20.99
	54 Mbps	20.66	22.27	21.67
	6.5 Mbps	20.03	21.58	20.79
	13 Mbps	20.00	21.42	20.56
	19.5 Mbps	19.89	21.13	20.62
11n	26 Mbps	19.79	21.38	20.55
HT20	39 Mbps	20.02	21.27	20.67
	52 Mbps	19.89	21.32	20.19
	58.5 Mbps	19.96	21.19	20.28
	65 Mbps	20.01	21.52	20.76

		Peak power output (dBm)		
Mod	dulation type	2422MHz (Ch3)	2437MHz (Ch6)	2462MHz (Ch11)
	13.5 Mbps	17.11	20.06	19.51
	27 Mbps	17.02	19.21	19.21
	40.5 Mbps	16.89	19.56	19.03
11n	54 Mbps	16.88	19.36	19.18
HT40	81 Mbps	17.01	19.02	19.34
	108 Mbps	16.63	19.21	19.00
	121.5 Mbps	16.74	19.68	18.89
	135 Mbps	16.28	18.96	18.68

^{*} The data rate 1Mbps, 54Mbps, 6.5Mbps, 13.5Mbps are selected as worse condition, and the following cases are performed with this condition.



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6.2 Occupied Bandwidth

6.2.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.2.2 Test Description

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer and Bluetooth test set via a power splitter with a known loss. Which connected to the transmitter antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies. All modes of operation were investigated and the worst case configuration results are reported in this section.

6.2.3 Test limit

FCC Part15.247(a)(2)

The minimum permissible 6dB bandwidth is 500 kHz

6.2.4 Test Procedure Used

KDB 558074 D01 v03r02 - Section 8.1 Option 1

6.2.5 Test Settings

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 x RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

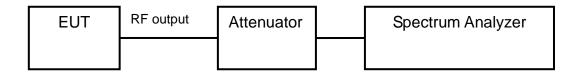
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6.2.6 Test Setup

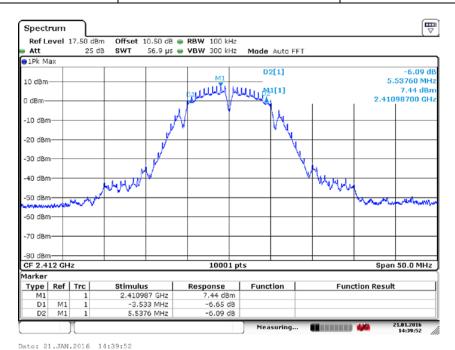
The EUT and measurement equipment were set up as shown in the diagram below.



6.2.7 Test result

Test Mode: 802.11b

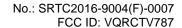
Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2412	1	9070.6
2437	6	9574.0
2462	11	9564.0



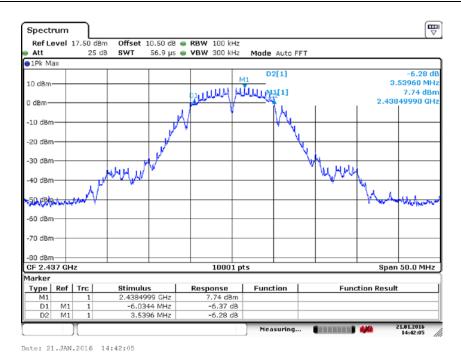
Carrier frequency (MHz): 2412 Channel No.:1

Test Mode: 802.11b

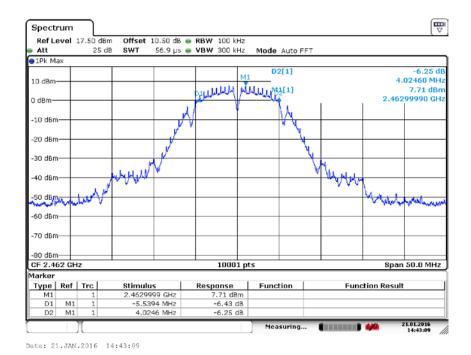
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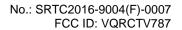




Carrier frequency (MHz): 2437 Channel No.:6 Test Mode: 802.11b



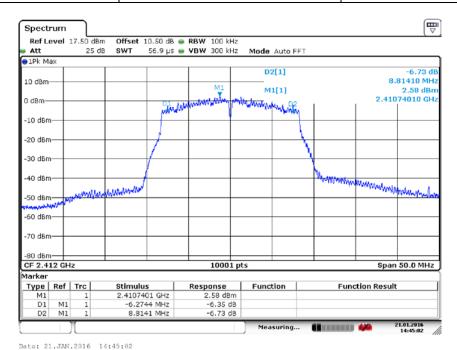
Carrier frequency (MHz): 2462 Channel No.:11 Test Mode: 802.11b





Test Mode: 802.11g

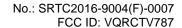
Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2412	1	15088.5
2437	6	15793.4
2462	11	15363.4



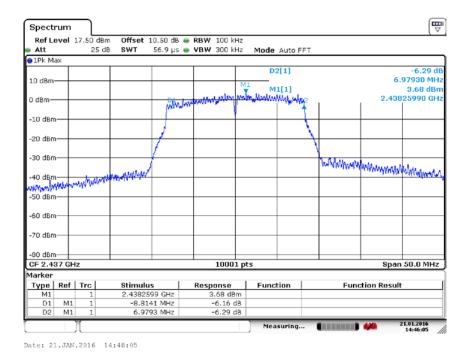
Carrier frequency (MHz): 2412 Channel No.:1 Test Mode: 802.11g

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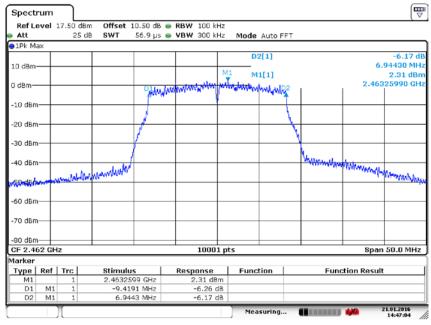
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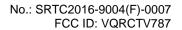


Carrier frequency (MHz): 2437 Channel No.:6 Test Mode: 802.11g



Date: 21.JAN.2016 14:47:04

Carrier frequency (MHz): 2462 Channel No.:11 Test Mode: 802.11g

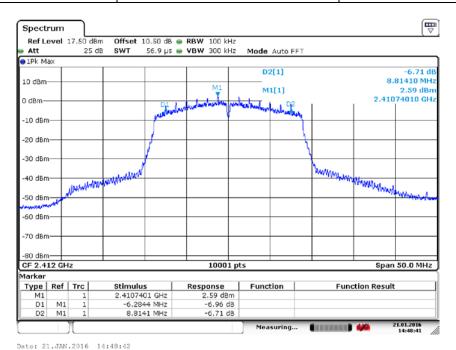


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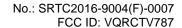
Test Mode: 802.11n (HT20)

Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2412	1	15098.5
2437	6	15718.4
2462	11	15908.4

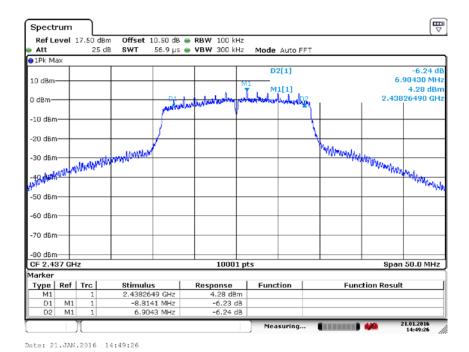


Carrier frequency (MHz): 2412 Channel No.:1 Test Mode: 802.11n (HT20)

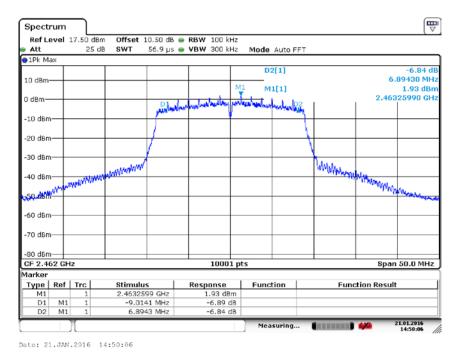
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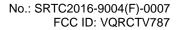




Carrier frequency (MHz): 2437 Channel No.:6 Test Mode: 802.11n(HT20)



Carrier frequency (MHz): 2462 Channel No.:11 Test Mode: 802.11n(HT20)

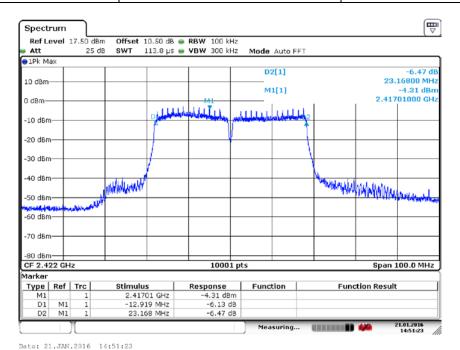


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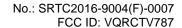
Test Mode: 802.11n(HT40)

Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2422	3	36087.0
2437	6	35497.0
2462	11	35137.0

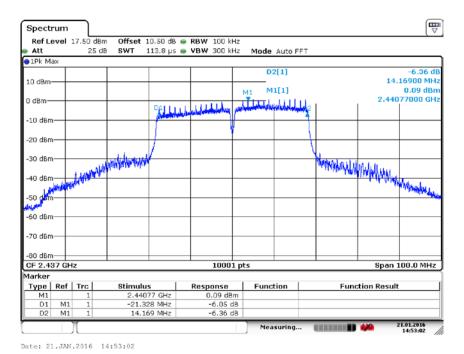


Carrier frequency (MHz): 2422 Channel No.:3 Test Mode: 802.11n(HT40)

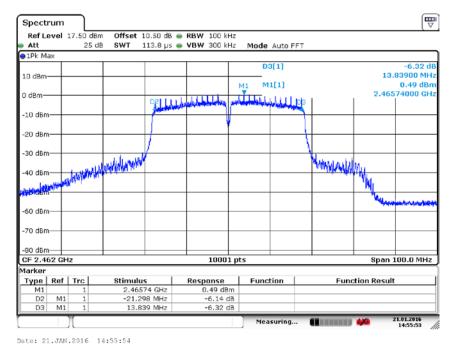
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Carrier frequency (MHz): 2437 Channel No.:6 Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2462 Channel No.:11

Test Mode: 802.11n(HT40)



6.3 Transmitter Power Spectral Density

6.3.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.3.2 Test Description

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

6.3.3 Test limit

FCC Part15.247(e)

The maximum permissible power spectral density is 8.0 dBm in any 3 kHz band.

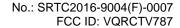
6.3.4 Test Procedure Used

KDB 558074 D01 v03r02 Section 10.2.

6.3.5 Test Settings

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- i) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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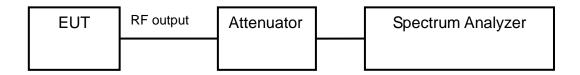


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6.3.6 Test Setup

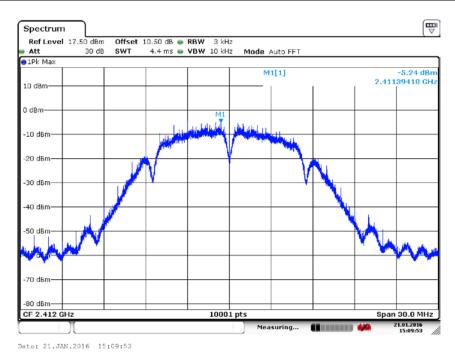
The EUT and measurement equipment were set up as shown in the diagram below.



6.3.7 Test result

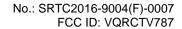
Test Mode: 802.11b

Carrier frequency (MHz)	Channel No	Power Density (dBm)
2412	1	-5.24
2437	6	-6.59
2462	11	-6.79

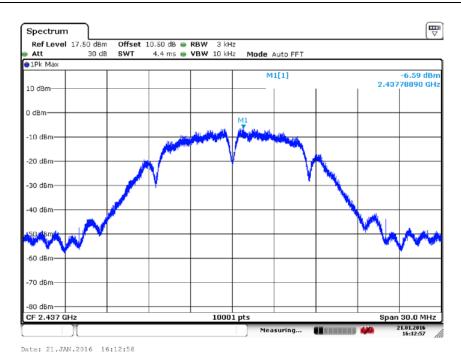


Carrier frequency (MHz): 2412 Channel No.1 Test Mode: 802.11b

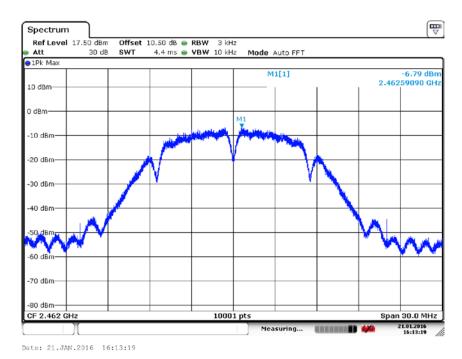
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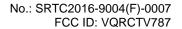




Carrier frequency (MHz): 2437 Channel No.6 Test Mode: 802.11b



Carrier frequency (MHz): 2462 Channel No.11 Test Mode: 802.11b

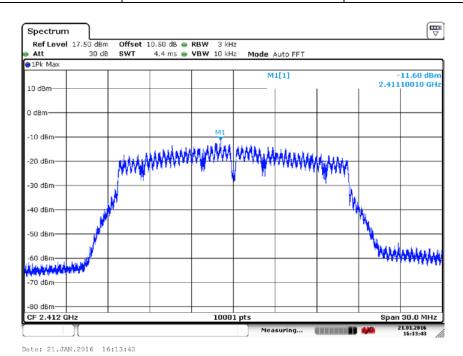


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Test Mode: 802.11g

Carrier frequency (MHz)	Channel No	Power Density (dBm)
2412	1	-11.60
2442	6	-11.78
2472	11	-11.76

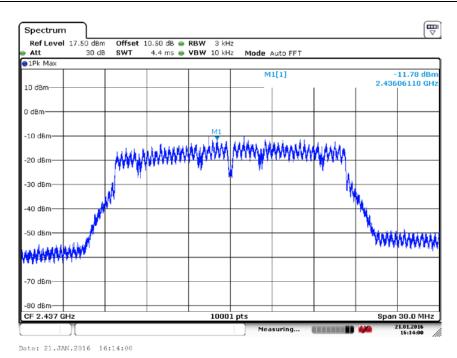


Carrier frequency (MHz): 2412 Channel No.1 Test Mode: 802.11g

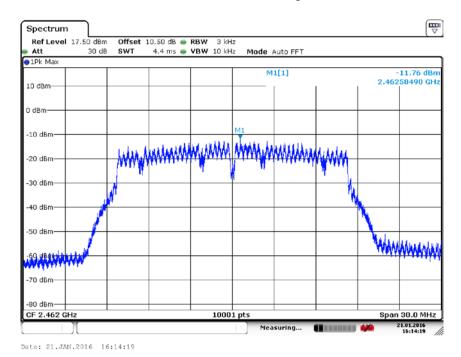
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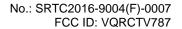




Carrier frequency (MHz): 2437 Channel No.6 Test Mode: 802.11g



Carrier frequency (MHz): 2462 Channel No.11 Test Mode: 802.11g

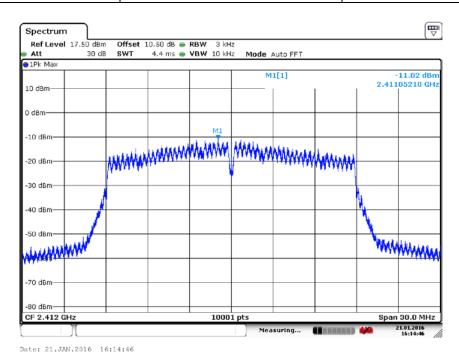


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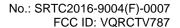
Test Mode: 802.11n(HT20)

Carrier frequency (MHz)	Channel No	Power Density (dBm)
2412	1	-11.02
2437	6	-8.51
2462	11	-11.60

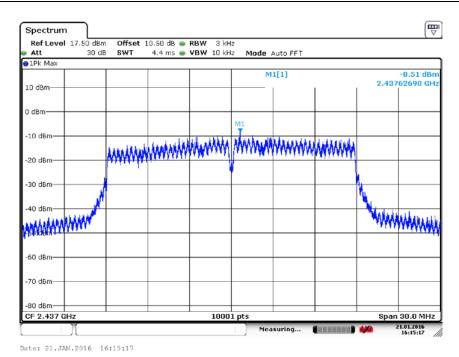


Carrier frequency (MHz): 2412 Channel No.1 Test Mode: 802.11n(HT20)

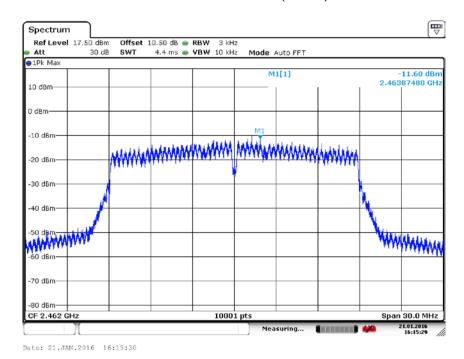
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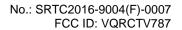




Carrier frequency (MHz): 2437 Channel No.6 Test Mode: 802.11n(HT20)



Carrier frequency (MHz): 2462 Channel No.11 Test Mode: 802.11n(HT20)

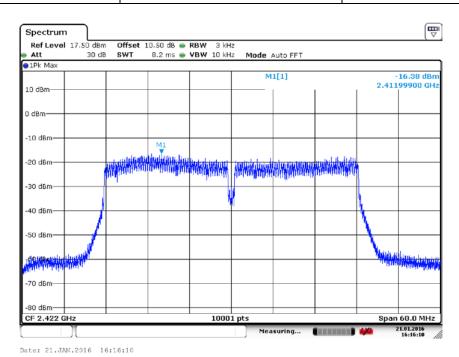


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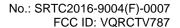
Test Mode: 802.11n(HT40)

Carrier frequency (MHz)	Channel No	Power Density (dBm)
2422	3	-16.38
2437	6	-13.05
2462	11	-12.86

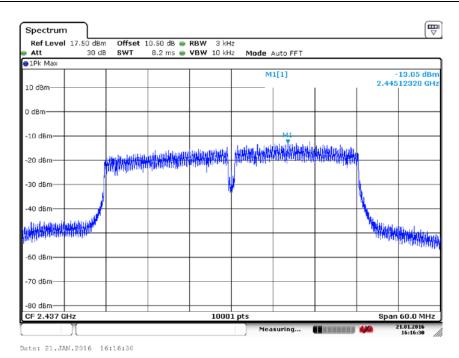


Carrier frequency (MHz): 2422 Channel No.3 Test Mode: 802.11n(HT40)

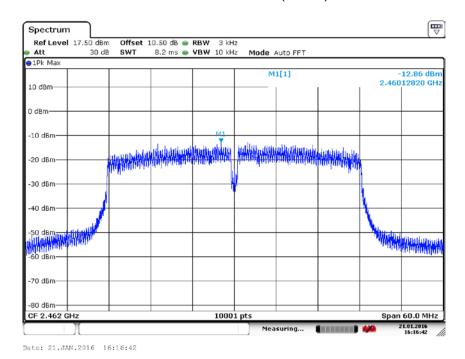
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Carrier frequency (MHz): 2437 Channel No.6 Test Mode: 802.11n(HT40)



Carrier frequency (MHz): 2462 Channel No.11 Test Mode: 802.11n(HT40)



6.4 Conducted Out of band emission measurement

6.4.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.4.2 Test Description

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration.

6.4.3 Test limit

FCC Part 15.247(d)

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

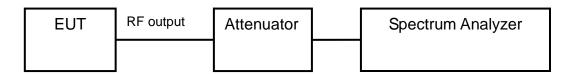
6.4.4 Test Procedure Used

KDB 558074 D01 v03r02 Section 11.3

6.4.5 Test Settings

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW \geq 300kHz.
- d) Detector = peak.
- e) Set span to encompass the spectrum to be examined
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

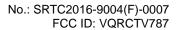
6.4.6 Test Setup



6.4.7 Test result

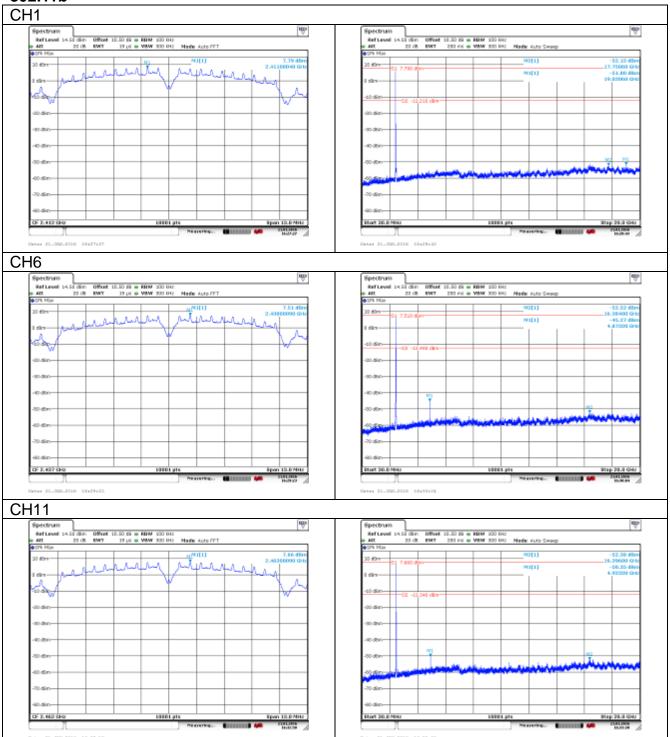
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

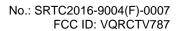
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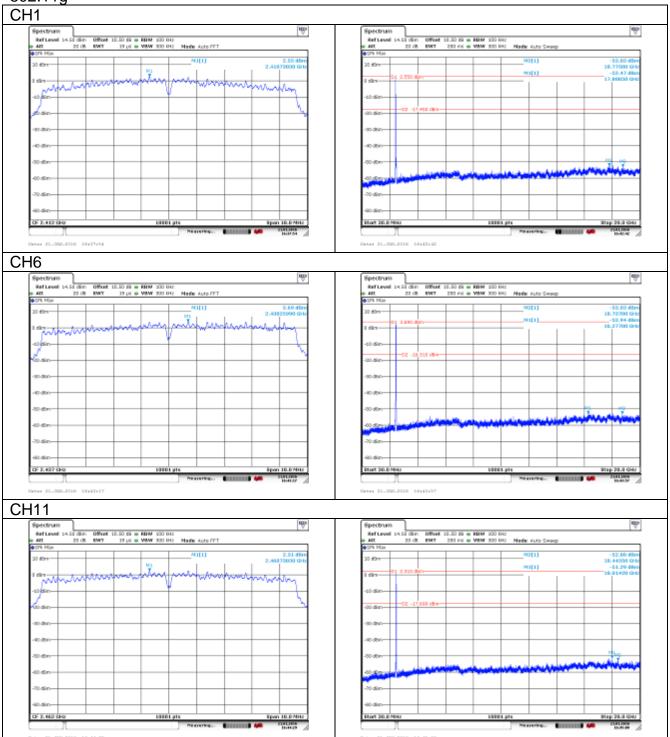
802.11b

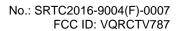






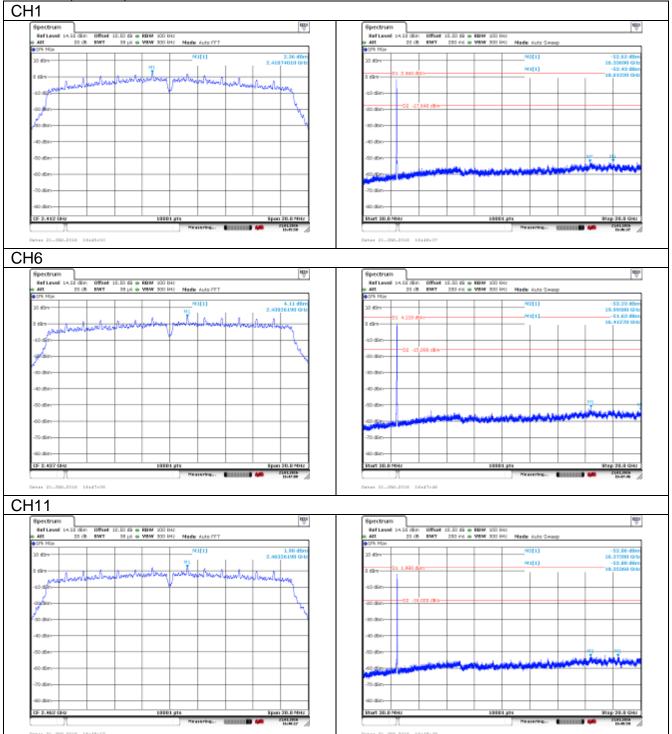
802.11g

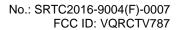






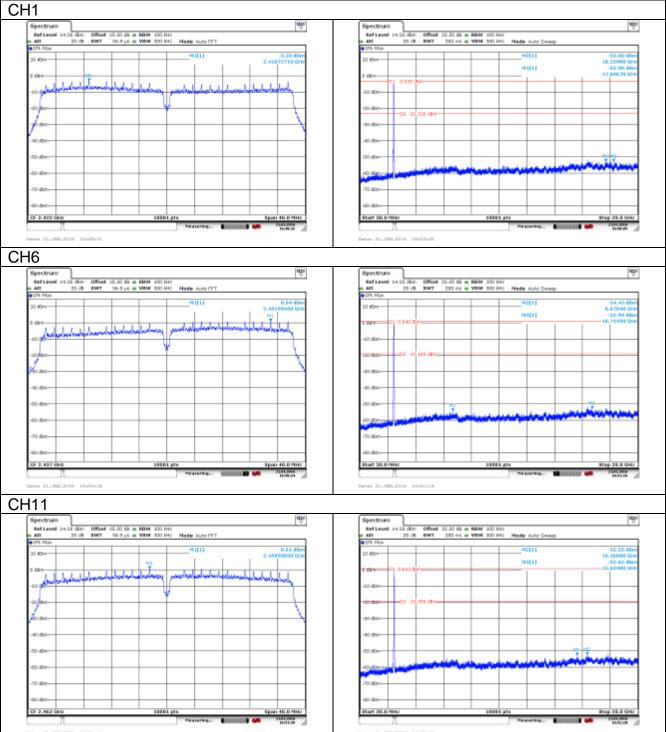
802.11n(20MHz)

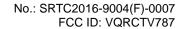






802.11n(40MHz)







6.5 Spurious Radiated Emissions

6.5.1 Ambient condition

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

6.5.2 Test Description

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

6.5.3 Test limit

FCC Part15.205, 15.209, 15.247(d);

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below Table per Section 15.209.

Frequency [MHz]	Field strength [µV/m]	Measured Distance [meters]
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Limits

FCC Part15.35(b):

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit

Used conversion factor: Limit ($dB\mu V/m$) = 20 log (Limit ($\mu V/m$)/1 $\mu V/m$)

Osca conversion factor. Entite (abp vini) - 20 log (Entite (p vini) i p vini)			
Frequency [MHz]	Detector	Unit (dBµV/m)	
30~88	Quasi-peak	40.0	
88~216	Quasi-peak	43.5	
216~960	Quasi-peak	46.0	
960~1000	Quasi-peak	54.0	
1000∼5th harmonic of the highest frequency	Average	54.0	
or 40GHz, whichever is lower	Peak	74.0	

Conversion Radiated limits

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6.5.4 Test Procedure Used

KDB 558074 D01 v03r02 – Section 12.2.5 (average power measurements) KDB 558074 D01 v03r02 – Section 12.2.4 (peak power measurements)

6.5.5 Test Settings

Average Field Strength Measurements per Section 12.2.5.1 of KDB 558074 v03r02

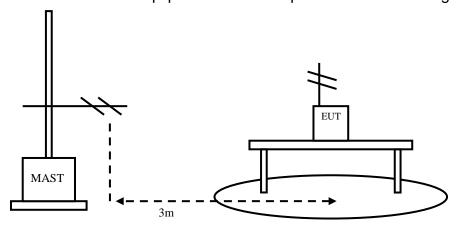
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be > 2 x span/RBW)
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 v03r02

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

6.5.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below



The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz or above, using receive log period antenna

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No.: SRTC2016-9004(F)-0007 FCC ID: VQRCTV787

HL562 or Ridge horn antenna HF906.

During the test, the antenna height and EUT azimuth were varied in order to identify the maximum level of emission from the EUT. The height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees. The measurements shall be repeated with orthogonal polarization of the test antenna. The results shall be showed the worst case of the three orthogonal axes.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

6.5.7 Test result

The worst case attitude: The mobile lay down.

Peak detector: RBW=1MHz,VBW=3MHz,sweep time=200ms; Average detector: RBW=1MHz,VBW=3MHz,sweep time=auto;

Carrier frequency (MHz): 2412

Channel No.:1 Test Mode: 802.11b Polarity:Vertical Detector: Peak

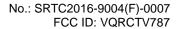
No	Frequency	Measure	Reading	Over	Limit	cable	antenna
110	(MHz)	Level	Level	Limit	(dBuv/m)	loss	factor
		(dBuV/m)	(dBuV)	(dB)		(dB)	(dB)
1	2412	109.97	75.97	N/A	N/A	8.90	25.10
2	2390	58.33	24.33	-15.67	74.0	8.90	25.10

Carrier frequency (MHz): 2412

Channel No.:1 Test Mode: 802.11b Polarity:Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	103.75	69.75	N/A	N/A	8.90	25.10
2	2390	53.56	19.56	-20.44	74.0	8.90	25.10

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Channel No.:1
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	96.63	62.63	N/A	N/A	8.90	25.10
2	2390	44.97	10.97	-9.03	54.0	8.90	25.10

Carrier frequency (MHz): 2412

Channel No.:1 Test Mode: 802.11b Polarity:Horizontal Detector: Average

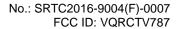
No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	92.02	58.02	N/A	N/A	8.90	25.10
2	2390	43.74	9.74	-10.26	54.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11 Test Mode: 802.11b Polarity:Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	110.85	76.85	N/A	N/A	8.90	25.10
2	2483.5	57.29	23.29	-16.71	74.0	8.90	25.10

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Channel No.:11
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	104.26	70.26	N/A	N/A	8.90	25.10
2	2483.5	55.38	21.38	-18.62	74.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11 Test Mode: 802.11b Polarity:Vertical Detector: Average

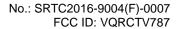
No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	96.67	62.67	N/A	N/A	8.90	25.10
2	2483.5	44.66	10.66	-9.34	54.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11 Test Mode: 802.11b Polarity:Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	92.64	58.64	N/Á	N/A	8.90	25.10
2	2483.5	45.03	11.03	-8.97	54.0	8.90	25.10

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Channel No.:1
Test Mode: 802.11g
Polarity: Vertical
Detector: Peak

-								
	No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
	1	2412	106.71	72.71	N/A	N/A	8.90	25.10
ſ	2	2390	51.87	17.87	-22.13	74.0	8.90	25.10

Carrier frequency (MHz): 2412

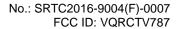
Channel No.:1 Test Mode: 802.11g Polarity:Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	101.65	67.65	N/A	N/A	8.90	25.10
2	2390	48.88	14.88	-25.12	74.0	8.90	25.10

Carrier frequency (MHz): 2412

Channel No.:1 Test Mode: 802.11g Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	91.45	57.45	N/A	N/A	8.90	25.10
2	2390	40.02	6.02	-13.98	54.0	8.90	25.10





Channel No.:1 Test Mode: 802.11g Polarity:Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	89.81	55.81	N/A	N/A	8.90	25.10
2	2390	39.42	5.42	-14.58	54.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11 Test Mode: 802.11g Polarity: Vertical Detector: Peak

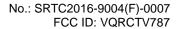
No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	105.37	71.37	N/A	N/A	8.90	25.10
2	2483.5	51.64	17.64	-22.36	74.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11 Test Mode: 802.11g Polarity:Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	99.79	65.79	N/A	N/A	8.90	25.10
2	2483.5	46.80	12.80	-27.20	74.0	8.90	25.10

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Channel No.:11
Test Mode: 802.11g
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	91.45	57.45	N/A	N/A	8.90	25.10
2	2483.5	40.53	6.53	-13.47	54.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11 Test Mode: 802.11g Polarity:Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	89.00	55.00	N/A	N/A	8.90	25.10
2	2483.5	38.90	4.90	-15.10	54.0	8.90	25.10

Carrier frequency (MHz): 2412

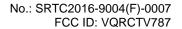
Channel No.:1

Test Mode: 802.11n(HT20)

Polarity: Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	106.24	72.24	N/A	N/A	8.90	25.10
2	2390	52.99	18.99	-21.01	74.0	8.90	25.10

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Channel No.:1

Test Mode: 802.11n(HT20)

Polarity:Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	98.99	64.99	N/A	N/A	8.90	25.10
2	2390	50.43	16.43	-23.57	74.0	8.90	25.10

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11n(HT20)

Polarity: Vertical Detector: Average

N	lo	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
•	1	2412	92.79	58.79	N/A	N/A	8.90	25.10
	2	2390	40.96	6.96	-13.04	54.0	8.90	25.10

Carrier frequency (MHz): 2412

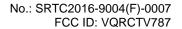
Channel No.:1

Test Mode: 802.11n(HT20)

Polarity:Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	89.89	55.89	N/A	N/A	8.90	25.10
2	2390	39.45	5.45	-14.55	54.0	8.90	25.10

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Channel No.:11

Test Mode: 802.11n(HT20)

Polarity: Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	104.56	70.56	N/A	N/A	8.90	25.10
2	2483.5	52.83	18.83	-21.17	74.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11

Test Mode: 802.11n(HT20)

Polarity:Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	100.46	66.46	N/A	N/A	8.90	25.10
2	2483.5	49.56	15.56	-24.44	74.0	8.90	25.10

Carrier frequency (MHz): 2462

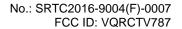
Channel No.:11

Test Mode: 802.11n(HT20)

Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	92.12	58.12	N/A	N/A	8.90	25.10
2	2483.5	39.62	5.62	-14.38	54.0	8.90	25.10

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Channel No.:11

Test Mode: 802.11n(HT20)

Polarity:Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	88.30	54.30	N/A	N/A	8.90	25.10
2	2483.5	38.39	4.39	-15.61	54.0	8.90	25.10

Carrier frequency (MHz): 2422

Channel No.:3

Test Mode: 802.11n(HT40)

Polarity: Vertical Detector: Peak

N	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	103.98	69.98	N/A	N/A	8.90	25.10
2	2390	49.99	15.99	-24.01	74.0	8.90	25.10

Carrier frequency (MHz): 2422

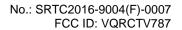
Channel No.:3

Test Mode: 802.11n(HT40)

Polarity:Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	98.64	64.64	N/A	N/A	8.90	25.10
2	2390	47.21	13.21	-26.79	74.0	8.90	25.10

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Channel No.:3

Test Mode: 802.11n(HT40)

Polarity: Vertical Detector: Average

2 steeten / trorage								
	No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
	1	2422	91.51	57.51	N/A	N/A	8.90	25.10
	2	2390	37.96	3.96	-16.04	54.0	8.90	25.10

Carrier frequency (MHz): 2422

Channel No.:3

Test Mode: 802.11n(HT40)

Polarity:Horizontal Detector: Average

N	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	87.62	53.62	N/A	N/A	8.90	25.10
2	2390	37.06	3.06	-16.94	54.0	8.90	25.10

Carrier frequency (MHz): 2462

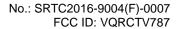
Channel No.:11

Test Mode: 802.11n(HT40)

Polarity: Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	104.42	70.42	N/A	N/A	8.90	25.10
2	2483.5	54.86	20.86	-19.14	74.0	8.90	25.10

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Channel No.:11

Test Mode: 802.11n(HT40)

Polarity:Horizontal Detector: Peak

	20.00.0111 Call						
No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	100.75	66.75	N/A	N/A	8.90	25.10
2	2483.5	48.09	14.09	-25.91	74.0	8.90	25.10

Carrier frequency (MHz): 2462

Channel No.:11

Test Mode: 802.11n(HT40)

Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	94.57	60.57	N/A	N/A	8.90	25.10
2	2483.5	41.65	7.65	-12.35	54.0	8.90	25.10

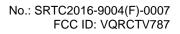
Carrier frequency (MHz): 2462

Channel No.11

Test Mode: 802.11n(HT40)

Polarity:Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	90.61	56.61	N/A	N/A	8.90	25.10
2	2483.5	39.73	5.73	-14.27	54.0	8.90	25.10



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For 802.11b

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity
31.96	17.60	20.00	-2.40	Vertical
74.47	18.50	9.00	9.50	Vertical
87.94	19.20	10.80	8.40	Vertical
94.81	29.30	11.30	18.00	Horizontal
100.80	21.50	12.10	9.40	Vertical
110.42	20.40	12.60	7.80	Vertical
209.82	22.70	11.90	10.80	Vertical
942.89	32.60	28.30	4.30	Vertical

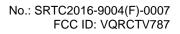
For 802.11g

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity
74.19	17.40	9.00	8.40	Vertical
87.66	17.70	10.80	6.90	Vertical
94.11	30.80	11.20	19.60	Vertical
97.19	26.00	11.90	14.10	Vertical
118.44	23.20	13.00	10.20	Vertical
211.42	23.60	11.90	11.70	Horizontal
628.26	23.50	23.70	-0.20	Vertical
942.89	30.80	28.30	2.50	Vertical

For 802.11n(HT20)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity
31.82	18.20	20.10	-1.90	Vertical
76.01	16.60	8.80	7.80	Vertical
87.94	22.20	10.80	11.40	Horizontal
95.51	31.40	11.40	20.00	Vertical
101.60	25.40	12.20	13.20	Vertical
108.82	18.80	12.50	6.30	Vertical
209.82	23.60	11.90	11.70	Vertical
942.65	31.20	28.30	2.90	Vertical

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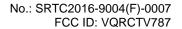
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For 802.11n(HT40)

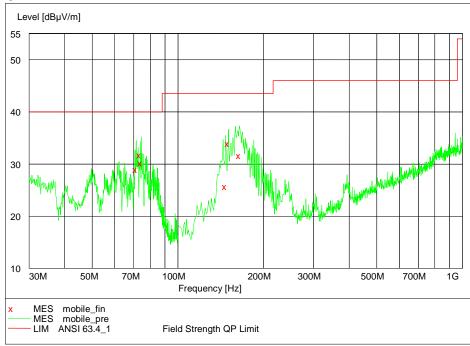
	Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	
	31.96	18.50	20.00	-1.50	Vertical	
	74.75	18.20	8.90	9.30	Vertical	
	76.15	15.00	8.90	6.10	Horizontal	
	87.94	21.70	10.80	10.90	Vertical	
	95.51	31.60	11.40	20.20	Vertical	
	101.60	25.60	12.20	13.40	Horizontal	
	209.82	23.80	11.90	11.90	Vertical	
	942.89	31.50	28.30	3.20	Vertical	

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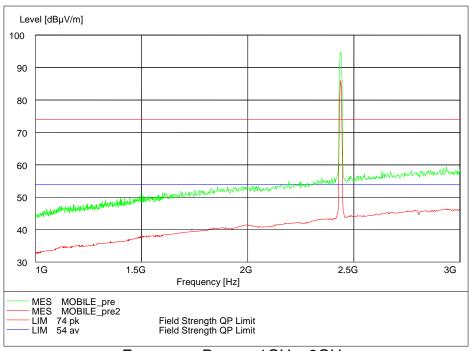




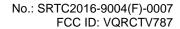
Carrier frequency (MHz): 2437 Channel No.:6



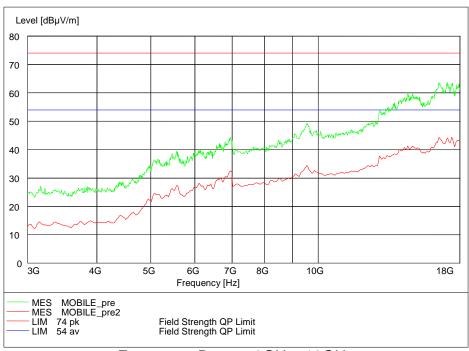
Frequency Range: 30MHz -1GHz Detector: QP mode Test Mode: 802.11b



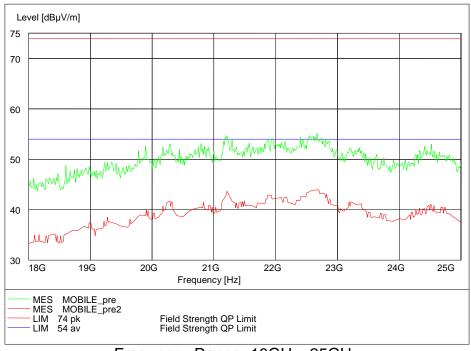
Frequency Range: 1GHz -3GHz Detector: Av mode and PK mode Modulation type: 802.11b



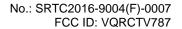




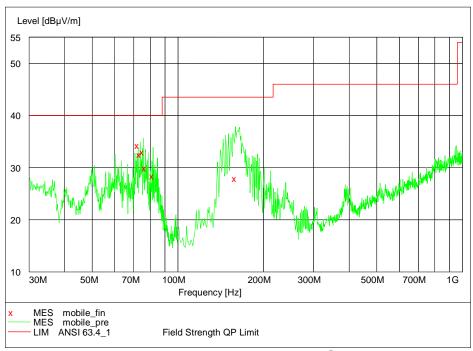
Frequency Range: 3GHz -18GHz Detector: Av mode and PK mode Modulation type: 802.11b



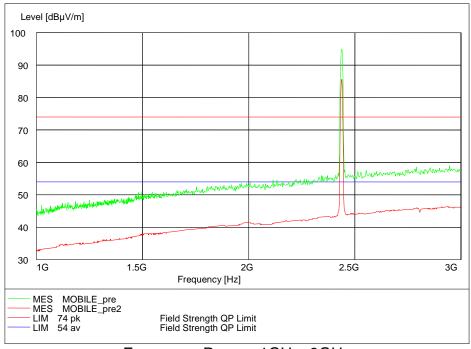
Frequency Range: 18GHz -25GHz Detector: Av mode and PK mode Modulation type: 802.11b



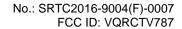




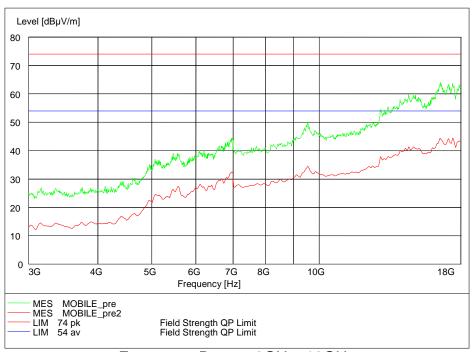
Frequency Range: 30MHz -1GHz Detector: QP mode Modulation type: 802.11g



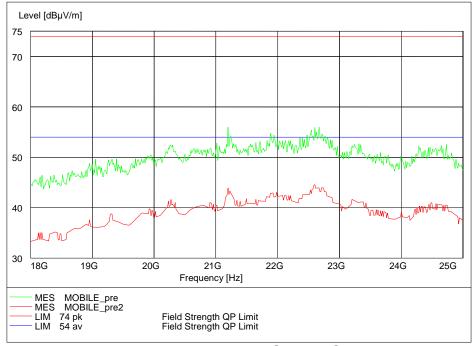
Frequency Range: 1GHz -3GHz Detector: Av mode and PK mode Modulation type: 802.11g



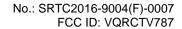




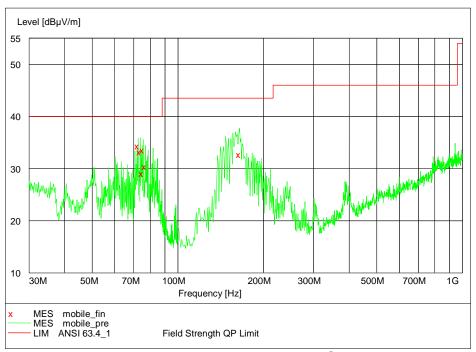
Frequency Range: 3GHz -18GHz Detector: Av mode and PK mode Modulation type: 802.11g



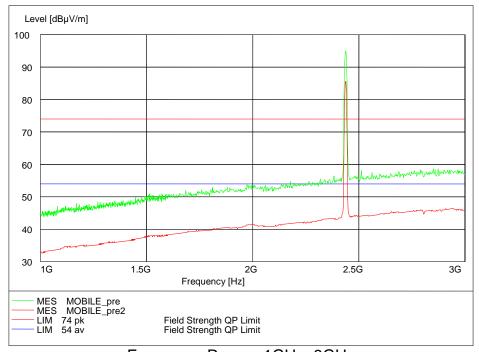
Frequency Range: 18GHz -25GHz Detector: Av mode and PK mode Modulation type: 802.11g



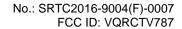




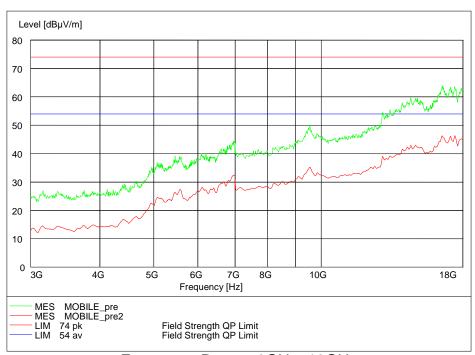
Frequency Range: 30MHz -1GHz Detector: QP mode Test Mode: 802.11n(HT20)



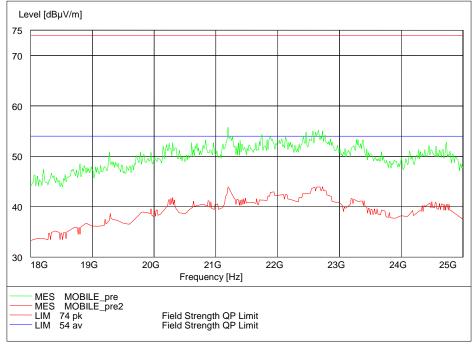
Frequency Range: 1GHz -3GHz Detector: Av mode and PK mode Modulation type: 802.11n(HT20)



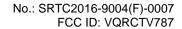




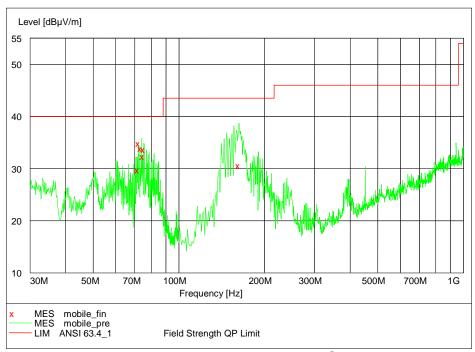
Frequency Range: 3GHz -18GHz Detector: Av mode and PK mode Modulation type: 802.11n(HT20)



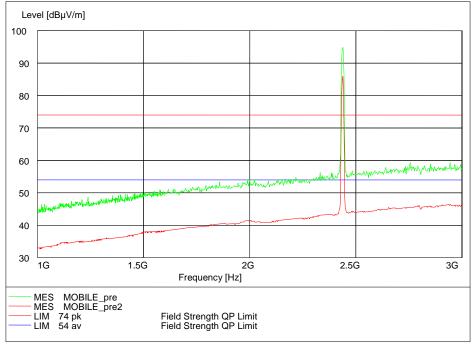
Frequency Range: 18GHz -25GHz Detector: Av mode and PK mode Modulation type: 802.11n(HT20)



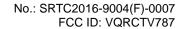




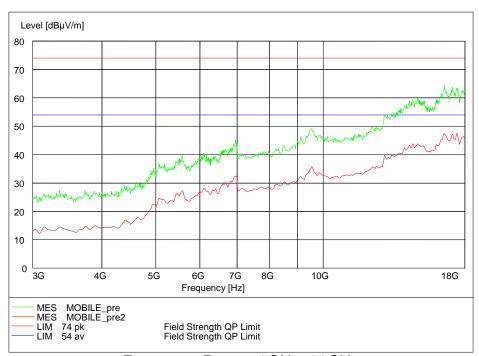
Frequency Range: 30MHz -1GHz Detector: QP mode Modulation type: 802.11n(HT40)



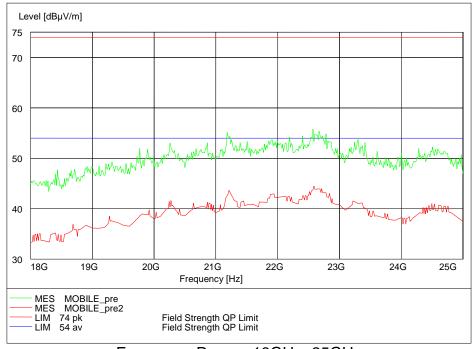
Frequency Range: 1GHz -3GHz Detector: Av mode and PK mode Modulation type: 802.11n(HT40)



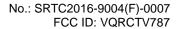




Frequency Range: 3GHz -18GHz Detector: Av mode and PK mode Modulation type: 802.11n(HT40)



Frequency Range: 18GHz -25GHz Detector: Av mode and PK mode



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6.6 AC Power line Conducted Emission

6.6.1 Ambient condition

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

6.6.2 Test limit

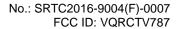
FCC Part15.207

Frequency of Emission (MHz)	Conducted Limit (dBuV)		
	Quasi-peak	Average	
0.15-0.5	66 to 56 *	56 to 46 *	
0.5-5	56	46	
5-30	60	50	

^{*} Decreases with the logarithm of the frequency.

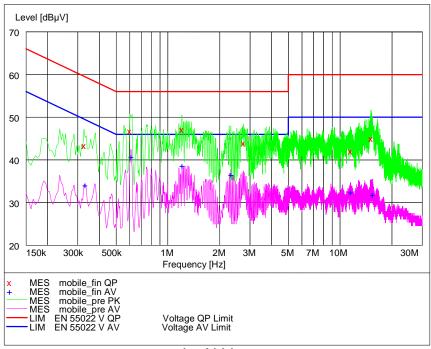
The measurement is made according to ANSI C63.4-2009

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6.6.3 Test result



L +N Line

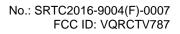
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line
MHz	dΒμV	dB	dΒμV	dB	
0.325000	43.50	29.6	60	16.1	L
0.600000	46.90	29.7	56	9.1	N
1.205000	47.30	29.7	56	8.7	L
2.745000	44.10	29.7	56	11.9	L
11.500000	42.20	29.9	60	17.8	N
15.165000	45.20	29.9	60	14.8	L

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line
MHz	dΒμV	dB	dΒμV	dB	
0.330000	34.30	29.6	50	15.2	L
0.610000	41.00	29.7	46	5.0	N
1.210000	38.90	29.7	46	7.1	L
2.320000	36.80	29.7	46	9.2	L
11.500000	32.60	29.9	50	17.4	N
15.415000	32.10	30.0	50	17.9	L

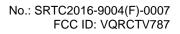
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7 MEASUREMENT UNCERTAINTIES

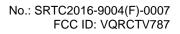
Items	Uncertainty		
Occupied Bandwidth	3kl	Hz	
Peak power output	0.67dB		
Band edge compliance	1.20dB		
Transmitter Power Spectral Density	0.75dB		
	30MHz∼1GHz	2.83dB	
Spurious emissions	1GHz~12.75GHz	2.50dB	
	12.75GHz~25GHz	2.75dB	





8 TEST EQUIPMENTS

No.	Name/Model	Manufacturer	S/N	Cal Due date
1.	Spectrum Analyzer FSV	ROHDE&SCHWARZ	101065	2016.08.20
2.	Attenuation 6810.17.B	HUBER+SUHNER	768710	2016.08.20
3.	Cable 104EA	SUCOFLEX	9272/4EA	2016.08.20
4.	Cable 104EA	SUCOFLEX	9266/4EA	2016.08.20
5.	Power Meter E4416A	Agilent	MY52370013	2016.03.01
6.	Peak Power Sensor E9327A	Agilent	MY52420006	2016.03.01
7.	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA		
8.	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA		
9.	Turn table Diameter:1m	HD		
10.	Turn table Diameter:5m	HD		
11.	Antenna master FAC(MA4.0)	MATURO		
12.	Antenna master SAC(MA4.0)	MATURO		
13.	9.080m×5.255m×3.525m Shielding room	FRANKONIA		
14.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	2016.08.20
15.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	2016.08.20
16.	HL562 Ultra log antenna	R&S	100016	2016.08.20
17.	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2016.08.20
18.	ESI 40 EMI test receiver	R&S	100015	2016.08.20
19.	Radio tester	CMU 200	114667	2016.08.20
20.	ESCS30 EMI test receiver	R&S	100029	2016.08.20
21.	HL562 Receive antenna	R&S	100167	2016.08.20
22.	ESH3-Z5 LISN	R&S	100020	2016.08.20





APPENDIX

Appendix Test Setup

---End of Test Report---

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