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TESTING  
CNAS L2264

## RF TEST REPORT

**Applicant** Huawei Technologies Co., Ltd.  
**FCC ID** QISVKY-L09  
**Product** Smart Phone  
**Model** VKY-L09  
**Report No.** RHA1612-0111RF02R1  
**Issue Date** January 24, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2016)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

*Performed by: Xianqing Li*

*Approved by: Kai Xu*

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## Summary of measurement results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	DFS Detection Threshold	15.407/KDB 905462 5.2	NA
2	U-NII Detection Bandwidth	15.407/KDB 905462 7.8.1	NA
3	Channel Availability Check Time	15.407/KDB 905462 7.8.2	NA
4	In-Service Monitoring for Channel Move Time	15.407/KDB 905462 7.8.3	Pass
5	In-Service Monitoring for Channel Closing Transmission Time	15.407/KDB 905462 7.8.3	Pass
6	In-Service Monitoring for Non-Occupancy Period(NOP)	15.407/KDB 905462 7.8.3	NA
8	Statistical Performance Check	15.407/KDB 905462 7.8.4	NA

Date of Testing: December 1, 2016 ~ December 7, 2016

VKY-L09 (RHA1612-0111RF02R1) is a variant model of VKY-L29 (RHA1611-0091RF02R1). Test values duplicated from Original for variant. The variant changed SIM card and model name, so there is no test for variant in this report. The detailed product change description please refers to the ANNEX B.

## 1. Test Laboratory

### 1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by CNAS or any government agencies.

### 1.2. Test facility

#### **CNAS (accreditation number:L2264)**

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

#### **FCC (recognition number is 428261)**

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

#### **IC (recognition number is 8510A)**

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

#### **VCCI (recognition number is C-4595, T-2154, R-4113, G-766)**

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

#### **A2LA (Certificate Number: 3857.01)**

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.



### 1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.  
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong  
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## 2. General Description of Equipment under Test

### Client Information

<b>Applicant</b>	Huawei Technologies Co., Ltd.
<b>Applicant address</b>	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen 518129 P.R.China.
<b>Manufacturer</b>	Huawei Technologies Co., Ltd.
<b>Manufacturer address</b>	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen 518129 P.R.China.

### General information

EUT Description	
Model:	VKY-L09
SN:	862940030039030
Hardware Version:	HL1AVICKYM
Software Version:	D189-L09C432B083
Power Supply:	AC adapter
Antenna Type:	Internal Antenna
Test Mode:	U-NII-2A (5250MHz-5350MHz) U-NII-2C (5470MHz-5725MHz)
Modulation Type:	802.11a(HT20) : OFDM 802.11n(HT20/HT40) : OFDM 802.11ac (HT20/HT40/HT80):OFDM
Operating Mode	<input type="checkbox"/> Master <input type="checkbox"/> Client with radar detection <input checked="" type="checkbox"/> Client without radar detection
Operating Frequency Range(s)	U-NII-2A: 5250MHz-5350MHz U-NII-2C: 5470MHz-5725MHz
EUT Accessory	
Battery 1	Manufacturer: Sunwoda Electronic Co., LTD Model: HB386589ECW Power Rating: DC 3.82V, 3650mAh, Li-ion



Battery 2	Manufacturer: SCUD (FUJIAN) Electronics Co., Ltd Model: HB386589ECW Power Rating: DC 3.82V, 3650mAh, Li-ion
Battery 3	Manufacturer: Desay Battery Co., Ltd. Model: HB386589ECW Power Rating: DC 3.82V, 3650mAh, Li-ion
Earphone 1	Manufacturer: JIANGXI LIANCHUANG HONGSHENG ELECTRONIC CO., LTD Model: MEMD1632B580C00 1.17m, Shielded
Earphone 2	Manufacturer: BOLUO COUNTY QUANCHENG ELECTRONIC CO., LTD Model: 1311-3291-3.5mm-229 1.17m, Shielded
Earphone 3	Manufacturer: Goer Tek Inc Model: NA12 1.17m, Shielded
Earphone 4	Manufacturer: MERRY ELECTRONICS (SHENZHEN) CO., LTD. Model: EMC309-001 1.17m, Shielded
Adapter 1	Manufacturer: DONGGUAN PHITEK ELECTRONICS CO., LTD Model: HW-050450U00 Input power: 100V-240V~50/60Hz, 0.75A Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A
Adapter 2	Manufacturer: SHENZHEN HUNTKEY ELECTRONIC CO., LTD. Model: HW-050450U00 Input power: 100V-240V~50/60Hz, 0.75A Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A
Adapter 3	Manufacturer: Salcomp (Shenzhen) Co., Ltd Model: HW-050450U00 Input power: 100V-240V~50/60Hz, 0.75A Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A
Adapter 4	Manufacturer: DONGGUAN PHITEK ELECTRONICS CO., LTD Model: HW-050450B00 Input power: 100V-240V~50/60Hz, 0.75A Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A
Adapter 5	Manufacturer: SHENZHEN HUNTKEY ELECTRONIC CO., LTD. Model: HW-050450B00 Input power: 100V-240V~50/60Hz, 0.75A Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A
Adapter 6	Manufacturer: Salcomp (Shenzhen) Co., Ltd Model: HW-050450B00 Input power: 100V-240V~50/60Hz, 0.75A Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A

Adapter 7	<p>Manufacturer: DONGGUAN PHITEK ELECTRONICS CO., LTD          Model: HW-050450E00          Input power: 100V-240V~50/60Hz, 0.75A          Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A</p>
Adapter 8	<p>Manufacturer: SHENZHEN HUNTKEY ELECTRONIC CO., LTD.          Model: HW-050450E00          Input power: 100V-240V~50/60Hz, 0.75A          Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A</p>
Adapter 9	<p>Manufacturer: Salcomp (Shenzhen) Co., Ltd          Model: HW-050450E00          Input power: 100V-240V~50/60Hz, 0.75A          Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A</p>
Adapter 10	<p>Manufacturer: DONGGUAN PHITEK ELECTRONICS CO., LTD          Model: HW-050450A00          Input power: 100V-240V~50/60Hz, 0.75A          Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A</p>
Adapter 11	<p>Manufacturer: SHENZHEN HUNTKEY ELECTRONIC CO., LTD.          Model: HW-050450A00          Input power: 100V-240V~50/60Hz, 0.75A          Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A</p>
Adapter 12	<p>Manufacturer: Salcomp (Shenzhen) Co., Ltd          Model: HW-050450A00          Input power: 100V-240V~50/60Hz, 0.75A          Output power: 5Vdc, 2A or 5Vdc, 4.5A or 4.5Vdc, 5A</p>
USB Extend Cable 1	<p>Manufacturer: LUXSHARE-ICT Co., Ltd.          98cm Cable, Shielded</p>
USB Extend Cable 2	<p>Manufacturer: Chang Shu Honglin Technology Co.,Ltd.          98cm Cable, Shielded</p>
<p>Note: 1. The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.</p> <p>2. There is more than one adapter/ earphone/ battery/ USB cable/ SIM card slot, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 3/ Earphone 1/ Battery 1/ USB cable 1/ SIM 1) will be recorded in this report.</p>	

**Wireless Technology and Frequency Range**

Wireless Technology		Bandwidth	Channel	Frequency
Wi-Fi	U-NII-2A	20 MHz	52	5260MHz
			56	5280MHz
			60	5300MHz
			64	5320MHz
		40 MHz	54	5270MHz
			62	5310MHz
			58	5290MHz
	U-NII-2C	20 MHz	100	5500MHz
			104	5520MHz
			108	5540MHz
			112	5560MHz
			116	5580MHz
			120	5600MHz
			124	5620MHz
			128	5640MHz
			132	5660MHz
			136	5680MHz
			140	5700MHz
			144	5720MHz
			40 MHz	102
		110		5550MHz
		118		5590MHz
		126		5630MHz
		134		5670MHz
		142		5710MHz
		80 MHz	106	5530MHz
			122	5610MHz
138	5690MHz			
Does this device support TPC Function? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Does this device support TDWR Band? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				



### 3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC CFR47 Part 15E (2016) Unlicensed National Information Infrastructure Devices**

**FCC KDB 905462 D02UNII DFS Compliance Procedures New Rules v02**

## 4. DFS Technical Requirements and Radar Test Waveforms

### 4.1. DFS Overview

**Table 1 Applicability of DFS Requirements Prior to Use of a Channel**

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

**Table 2 Applicability of DFS requirements during normal operation**

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
U-NII Detection Bandwidth	All BW modes must be tested	Not required
Statistical Performance Check	All BW modes must be tested	Not required
Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
Channel Move Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
<p><b>Note:</b> Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		

## 4.2. DFS Detection Thresholds

**Table 3 DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.

**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

**Table 4 DFS Response Requirement Values**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

**Note 1:** Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic

### 4.3. RADAR TEST WAVEFORMS

#### 4.3.1. Radar Test Waveforms

**Table 5 Short Pulse Radar Test Waveforms**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

**Table 5a Pulse Repetition Intervals Values for Test A**

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$			

**Table6 Long Pulse Radar Test Waveform**

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

**Table7 Frequency Hopping Radar Test Waveform**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

## 5. Test Case Results

### 5.1. DFS Detection Thresholds

#### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### Methods of Measurement

Client with injection at the Master.

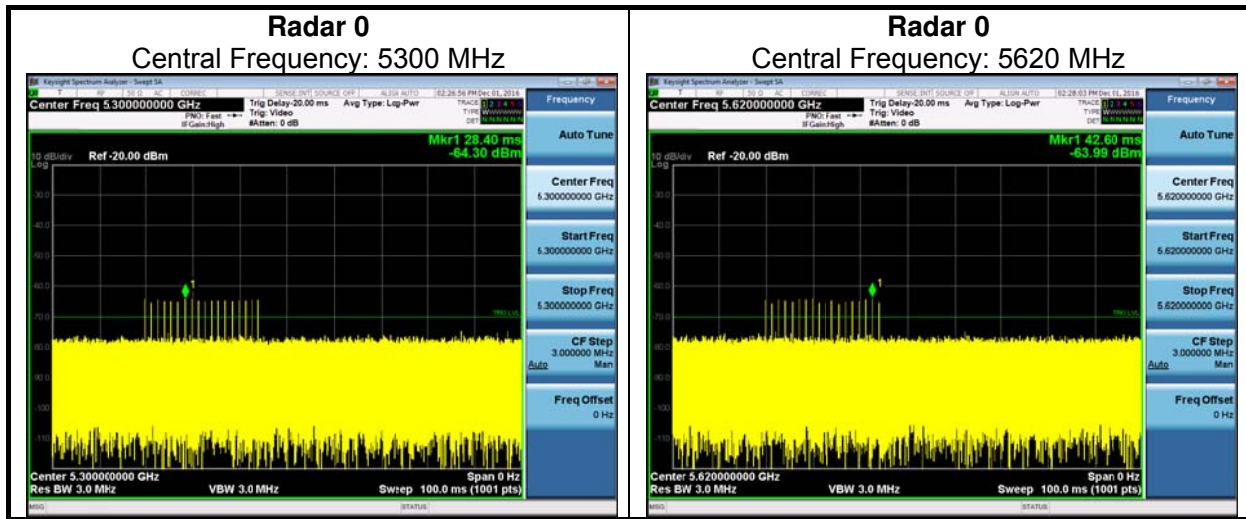
For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64dBm, the tested level is lower than required level hence it provides margin to the limit.

Frequency of Calibration	
Bandwidth	Central Frequency
20MHz	5300 MHz
	5620 MHz
40MHz	5270 MHz
	5630 MHz
80MHz	5290 MHz
	5610 MHz

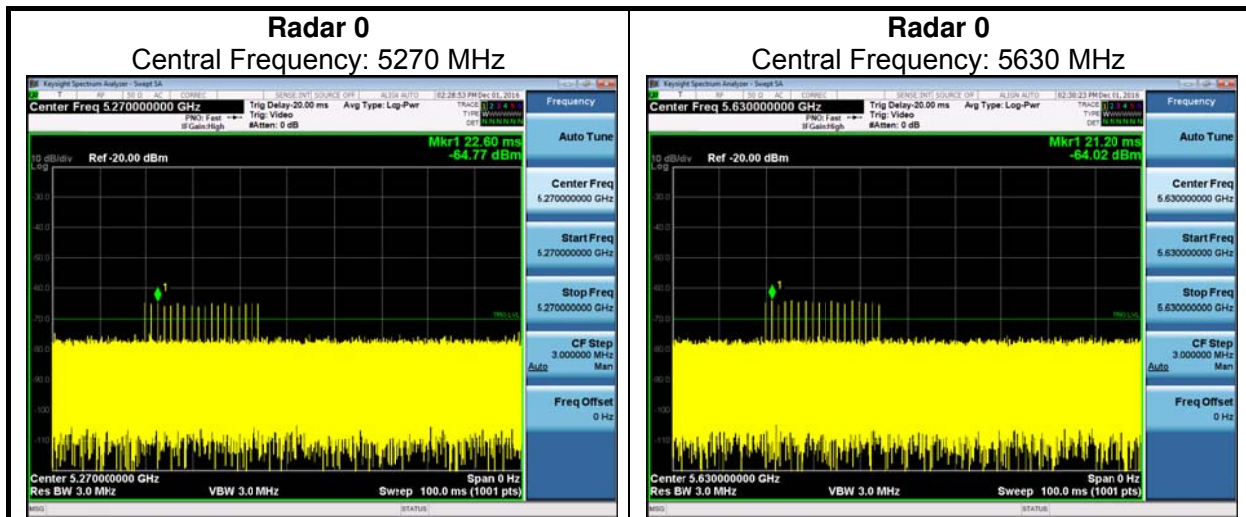


### Calibration Result

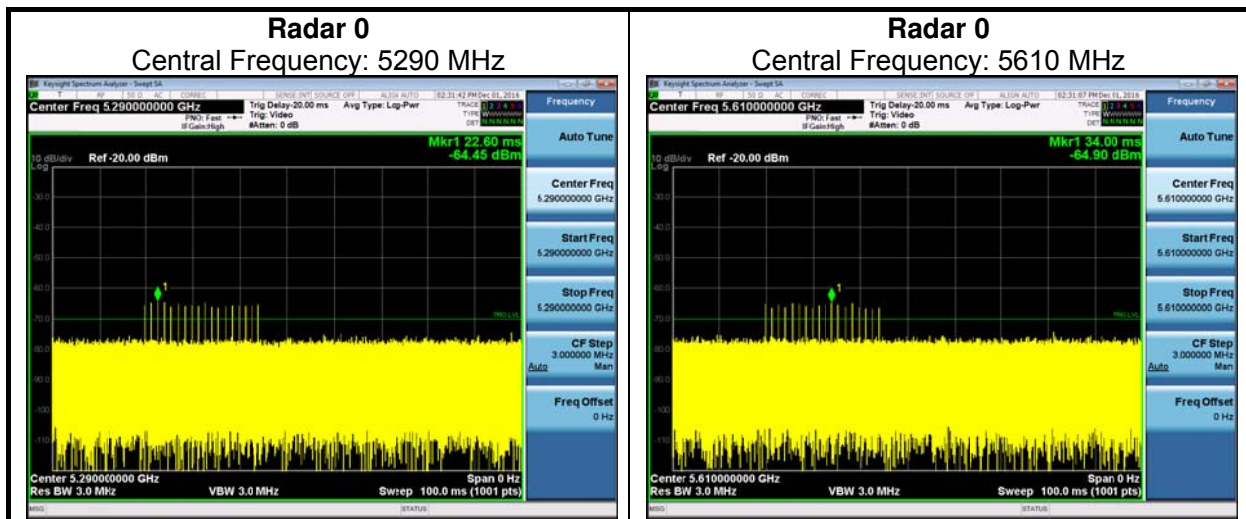
20MHz



40MHz



80MHz



## 5.2. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

### Methods of Measurement

These tests define how the following DFS parameters are verified during In-Service Monitoring;

- Channel Closing Transmission Time
- Channel Move Time
- Non-Occupancy Period

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

1. One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
2. In case the EUT is a U-NII device operating as a Client Device (with or without DFS), a U-NII device operating as a Master Device will be used to allow the EUT (Client device) to Associate with the Master Device. In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the EUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
3. Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
4. At time  $T_0$  the Radar Waveform generator sends a Burst of pulses for one of the Radar Type 0 in Table 5 at levels defined in Table 3, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
5. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. Figure 17 illustrates Channel Closing Transmission Time.

6. When operating as a Master Device, monitor the EUT for more than 30 minutes following instant  $T_2$  to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

7. In case the EUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps 1 to 6.

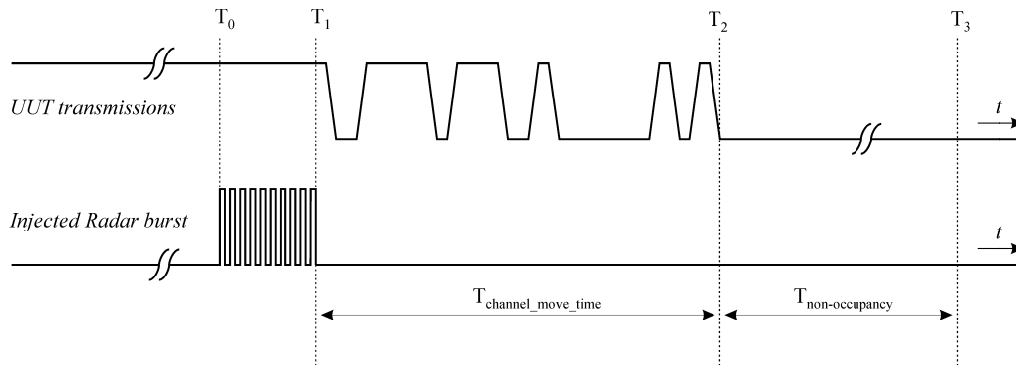


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

**Limits**

Channel Move Time	$\geq 10s$
Channel Closing Transmission Time	$\leq 200ms + 60ms$ (over remaining 10s period)
Non-Occupancy Period	$\geq 30min$

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

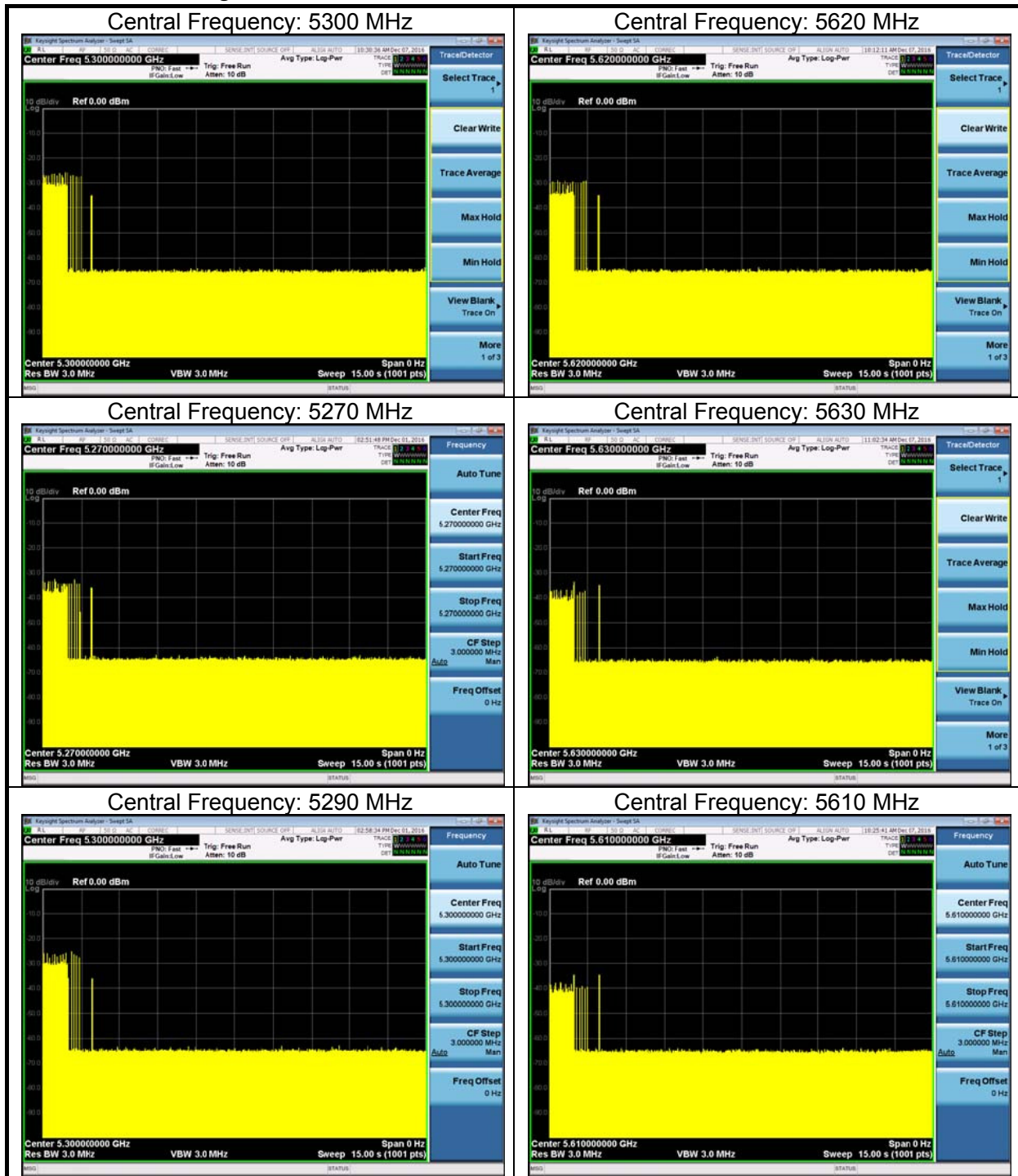
**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U=2.69$  dB.



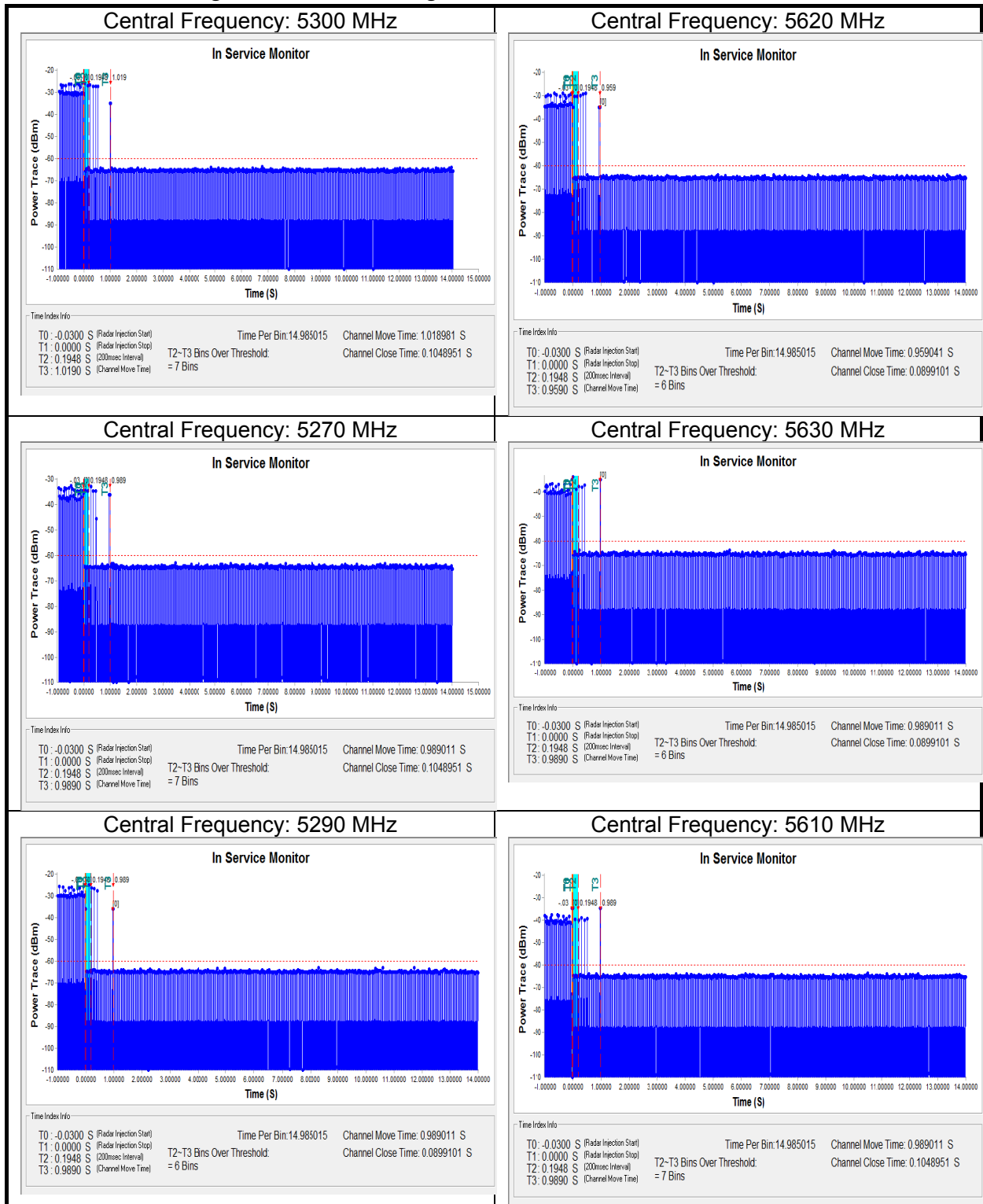
Test Results:

In-Service Monitoring for Channel Move Time





### In-Service Monitoring for Channel Closing Transmission Time



In-Service Monitoring for Non-Occupancy Period  
NOT TEST

## 6. Main Test Instruments

Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
Splider	2 way	UCL Microwave	UCL-PD0512-2S	2015-08-21	2018-08-20
Splider	2 way	UCLMicrowave	UCL-PD0512-2S	2015-08-21	2018-08-20
Splider	2 way	UCL Microwave	UCL-PD0512-2S	2015-08-21	2018-08-20
Spectrum Analyzer	N9020A	Agilent	MY52330084	2016-03-17	2017-03-16
Signal Generator	N5182B	Agilent	MY51350303	2016-08-26	2017-08-25
RF Cable	SMA 15cm	Agilent	0001	2016-10-05	2017-01-04
RF Cable	SMA 15cm	Agilent	0002	2016-10-05	2017-01-04
RF Cable	SMA 15cm	Agilent	0003	2016-10-05	2017-01-04
RF Cable	SMA 15cm	Agilent	0004	2016-10-05	2017-01-04

## ANNEX B: Product Change Description

<b>Model</b>	<b>VKY-L29</b>	<b>VKY-L09</b>
<b>Trade mark</b>	<b>HUAWEI</b>	<b>HUAWEI</b>
Frequency-GSM	the same	the same
Frequency-WCDMA	the same	the same
Frequency-LTE	the same	the same
Frequency-LTE	the same	the same
<b>SIM Card</b>	<b>Dual</b>	<b>Single</b>
Hardware Version	the same	the same
<b>Software Version</b>	<b>different</b>	<b>different</b>
Dimensions	the same	the same
Appearance	the same	the same
main antenna	the same	the same
BT/Wi-Fi antenna	the same	the same
DIV antenna	the same	the same
<b>Supported CA configurations for Inter-band CA</b>	<b>CA_3A-8A, CA_3A-20A, CA_3A-7A-8A,CA_3A-7A-20A, CA_3A-7A-28A Unsupported</b>	<b>CA_3A-8A, CA_3A-20A, CA_3A-7A-8A,CA_3A-7A-20A, CA_3A-7A-28A Supported</b>
Others	the same	the same

\*\*\*\*\*END OF REPORT \*\*\*\*\*