**ISSUED BY** Shenzhen BALUN Technology Co., Ltd.



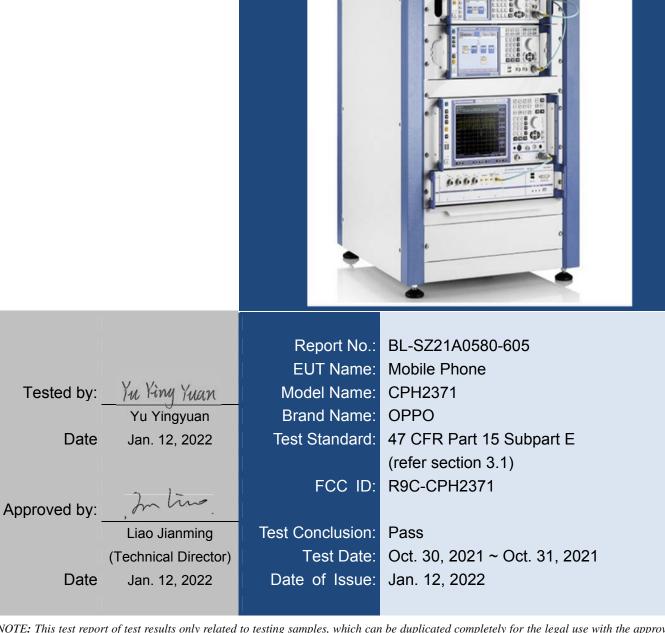
FOR

# **Mobile Phone**

**ISSUED TO** 

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China



0

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Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong, P. R. China 518055 TEL: +86-755-66850100, FAX: +86-755-61824271 Email: qc@baluntek.com

www.baluntek.com

RF

TESTREPORT

1/26



## **Revision History**

Version	Issue Date	Revisions
<u>Rev. 01</u> <u>Rev. 02</u>	<u>Dec. 23, 2021</u> Jan. 12, 2022	Initial Issue Updated Section 2.5 Technical Information

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# **1 ADMINISTRATIVE DATA (GENERAL INFORMATION)**

## 1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.	
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi	
	Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China	
Phone Number	+86 755 6685 0100	

### **1.2** Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.	
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi	
Audress	Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China	
Accreditation	The laboratory is a testing organization accredited by FCC as a	
Certificate	accredited testing laboratory. The designation number is CN1196.	
	All measurement facilities used to collect the measurement data are	
Description	located at Block B, FL 1, Baisha Science and Technology Park, Shahe	
Description	Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R.	
	China 518055	

### **1.3 Laboratory Condition**

Ambient Temperature	20°C to 25°C 45% to 55%	
Ambient Relative Humidity		
Ambient Pressure	100 kPa to 102 kPa	

### **1.4 Announce**

- (1) The test report reference to the report template version v4.7.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



# **2 PRODUCT INFORMATION**

## 2.1 Applicant Information

Applicant	Guangdong OPPO Mobile Telecommunications Corp., Ltd.	
Address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan	
Address	City, Guangdong, China	

## 2.2 Manufacturer Information

Manufacturer Guangdong OPPO Mobile Telecommunications Corp., Ltd.	
Addroop	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan
Address	City, Guangdong, China

## **2.3 Factory Information**

Factory	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan
Address	City, Guangdong, China

## 2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	CPH2371
Series Model Name	N/A
Description of Model	N/A
name differentiation	N/A
Hardware Version	11
Software Version	ColorOS V12
Dimensions (Approx.)	160.6*73.2*7.81mm
Weight (Approx.)	173g (with battery)



## 2.5 Technical Information

	2G Network GSM/GPRS/EDGE 850/1900 MHz
	3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA/HSPA+
	Band 2/4/5
	4G Network FDD LTE Band 2/4/5/7/12/17/26/66
	TDD LTE Band 38/41
	LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C
Network and Wireless	5G Network SA: NR n5/n7/n38/n41
Network and Wireless	NSA(EN-DC): DC_7A_n66A, DC_66A_n66A, DC_5A_n7A,
connectivity	DC_7A_n7A, DC_66A_n7A, DC_7A_n5A
	Bluetooth (BR+EDR+BLE)
	2.4G WIFI 802.11b, 802.11g, 802.11n (HT20/40), 802.11VHT20/40,
	802.11ax (HE20/40)
	5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80),
	802.11ax(HE20/40/80) U-NII-1/2A/2C/3
	GPS, GLONASS, BDS, Galileo, SBAS, NFC

The requirement for the following technical information of the EUT was tested in this report:

	<u> </u>	
Frequency Range	5250 MHz to 5350 MHz, 5470 MHz to 5725 MHz	
Product Type	⊠ Portable	
	Fix Location	
Maximum Output Douror	5250 MHz to 5350 MHz: 16.43 dBm	
Maximum Output Power	5470 MHz to 5725 MHz: 16.48 dBm	
	DIEA Antonno	
Antenna Type	PIFA Antenna	
	5250 MHz to 5350 MHz: 0.73 dBi	
Antonno Coin	5470 MHz to 5725 MHz: 0.73 dBi	
Antenna Gain	(In test items related to antenna gain, the final results reflect this	
	figure. This value is provided by the applicant.)	
Note: This device (Client) is without radar detection, then the manufacturer statement		
confirming that information regarding the parameters of the detected Radar Waveforms is not		

available to the end user. And the device doesn't have Ad Hoc mode on DFS frequency band.



# **3 SUMMARY OF TEST RESULTS**

## 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15	Unlicensed National Information Infrastructure Devices
	Subpart E	
2	KDB Publication	UNII DFS Compliance Procedures New Rules
2	905462 D02v02	ONIT DES Compliance Frocedures New Rules
3	KDB Publication	UNII Clients Without Radar Detection New Rules
3	905462 D03v01r02	UNIT Clients Without Radar Detection New Rules
4	KDB Publication	Guidelines for Compliance Testing of Unlicensed National
4	789033 D02v02r01	Information Infrastructure (U-NII) Devices Part 15, Subpart E

### 3.2 Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	Channel Move Time	15.407	Pass	Applicable
2	Channel Closing Transmission Time	15.407	Pass	Applicable
3	Non- Occupancy Period	15.407	Pass	Applicable

## 3.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.82°C
Humidity	4.1%



# **4 GENERAL TEST CONFIGURATIONS**

## 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 55%		
Atmospheric Pressure	100 kPa to 102 kPa		
	NT (Normal Temperature)	+22°C to +25°C	
Temperature	LT (Low Temperature)	<b>0</b> °C	
	HT (High Temperature)	+35℃	
	NV (Normal Voltage)	7.74 V	
Working Voltage of the EUT	LV (Low Voltage)	6.80 V	
	HV (High Voltage)	8.90 V	

## 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2021.04.01	2022.03.31
Bluetooth Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2021.06.01	2022.05.31
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2021.01.27	2022.01.26
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2021.06.01	2022.05.31
Switch Unit with OSP- B157	ROHDE&SCHWARZ	OSP120	101270	2021.06.01	2022.05.31
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.06.01	2022.05.31
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.06.01	2022.05.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.01	2022.05.31
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2022.07.01
Test Antenna- Horn (18-40 GHz)	A-INFO	LB- 180400KF	J211060273	2021.07.02	2023.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2022.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2019.08.08	2022.08.07
Shielded Enclosure	ChangNing	CN-130701	130703		



	Access Point		
	Brand Name	Aerohive	
	Model No.	AP230	
Master	Serial No.	AH-AP-230-AC-W	
	FCC ID	WBV-AP230	
	SPEC.	The maximum EIRP is18.5dBm, Antenna Gain is	
		6.57dBi	

## 4.3 Test Software List

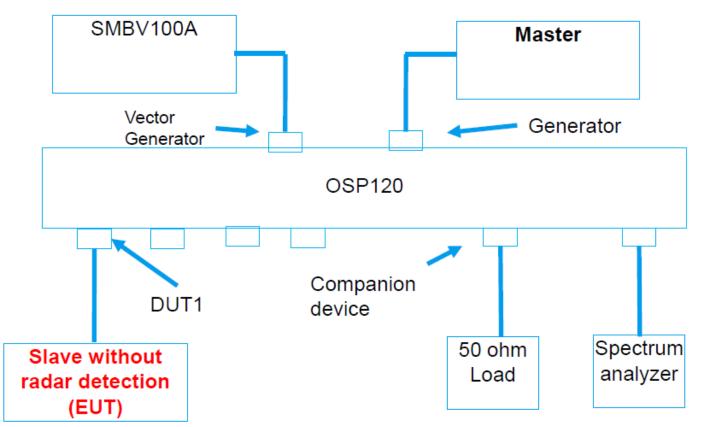
Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BLE410R	BALUN	V2.1.1.488	N/A	The section 4.4.1



## 4.4 Description of Test Setup

4.4.1 Conducted Test Setup Configuration

Client without Radar Detection Mode



The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.

(Diagram 1)



# 5 Test Type and Test Results

## 5.1 DFS

5.1.1 U-NII DFS Rule Requirements

### 5.1.1.1 Working Mode and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

#### APPLICABILITY OF DFS REQUIREMENTS PRIOR TO USE A CHANNEL

	Operational Mode			
Requirement	Master	Client without radar detection	Client with radar detection	
Non-Occupancy Period	$\checkmark$	~	$\checkmark$	
DFS Detection Threshold	$\checkmark$	Not required	$\checkmark$	
Channel Availability Check Time	$\checkmark$	Not required	Not required	
Uniform Spreading	~	Not required	Not required	
U-NII Detection Bandwidth	$\checkmark$	Not required	$\checkmark$	

### APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION

	Operational Mode			
Requirement	Master	Client without radar detection	Client with radar detection	
DFS Detection Threshold	$\checkmark$	Not required	$\checkmark$	
Channel Closing Transmission Time	$\checkmark$	$\checkmark$	$\checkmark$	
Channel Move Time	$\checkmark$	✓	$\checkmark$	
U-NII Detection Bandwidth	$\checkmark$	Not required	$\checkmark$	



#### 5.1.2 Test Limits and Radar Signal Parameters

#### Detection Thereshold Values

DFS DETECTION THRESHOLDS FOR MASTER DEVICES AND CLIENT DEVICES WITH RADAR DETECTION

Maximum Transmit Power	Value (See Note <sup>1 &amp; 2</sup> )
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note <sup>1</sup>: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note <sup>2</sup>: 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.

#### 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 <sup>1</sup> .
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Note <sup>1&amp;2</sup> .
U-NII Detection Bandwidth	100% of the UNII transmission power bandwidth. See Note <sup>3</sup> .

Note <sup>1</sup>: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

• For the Short Pulse Radar Test Signals this instant is the end of the Burst.

• For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.

 For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

Note <sup>2</sup>: 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 <sup>3</sup>: During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



#### Parameters of DFS Test Signals

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific 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	See Note			
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the	$   \operatorname{Roundup} \left\{ \begin{array}{c} \left( \frac{1}{360} \right) \\ \left( 19 \cdot 10^6 \right) \end{array} \right\} $	60%	30			
		range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right)$					
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							
	Note: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.							

#### SHORT PULSE RADAR TEST WAVEFORMS

#### LONG PULSE RADAR TEST WAVEFORM

	dar vpe	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
į	5	50-100	5-20	1000-2000	1-3	8-20	80%	30

### 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



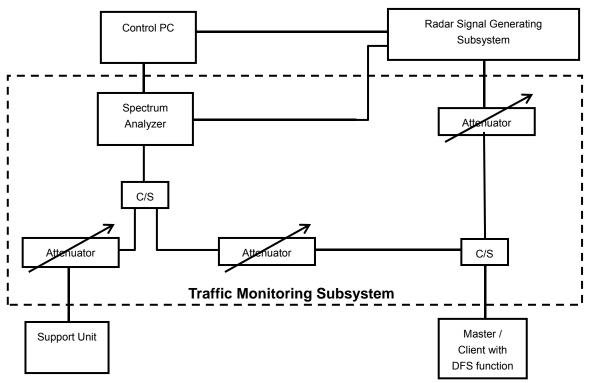
### 5.1.2.1 Test Setup

See 4.4 for test setup description for the radiated test. The photo of test setup please refer to ANNEX B.

5.1.2.2 Test Procedure

#### DFS MEASUREMENT SYSTEM:

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 6, 7 and 8. The traffic monitoring subsystem is specified to the type of unit under test (UUT). Conducted setup configuration of ADT DFS Measurement System



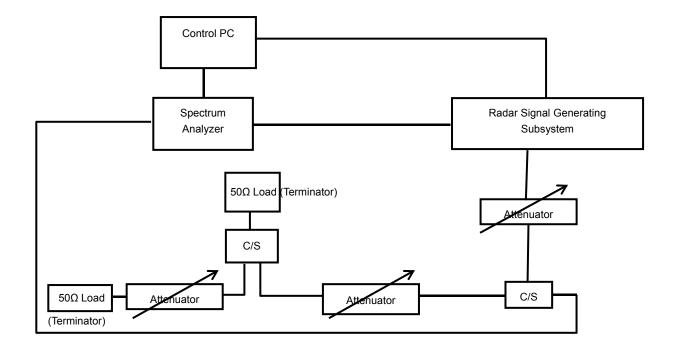
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file ( $6\frac{1}{2}$  Magic Hours) from Master device, the designated MPEG test file and instructions are located at: <u>http://ntiacsd.ntia.doc.gov/dfs/</u>.

### CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

The measured channel is 5500 MHz in 20MHz Bandwidth and 5530MHz in 80MHz Bandwidth. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Master antenna gain is 6.57dBi and required detection threshold is-54.43dBm (= -62 +1 +6.57)dBm. The calibrated conducted detection threshold level is set to -54.43 dBm.



Conducted setup configuration of Calibration of DFS Detection Threshold Level



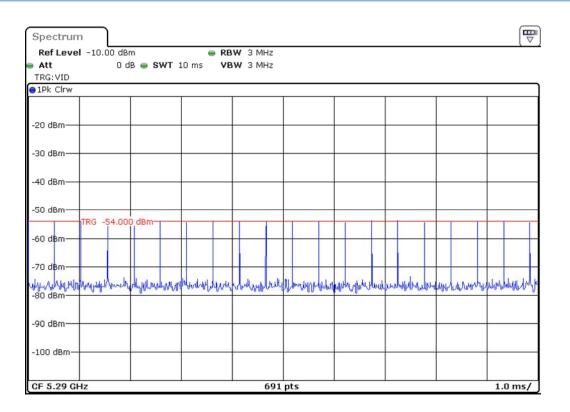


#### **Radar Waveform Calibration Result**

Radar Type 0 Calibration Plot (5290MHz)

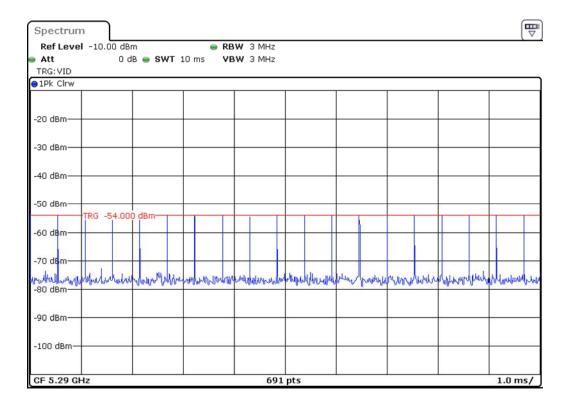
Spectrur	n 🛞	Spect	rum 2	- (	x) s	pectru	m 3		X	S	peo	trum	4	X					₹
Ref Level				_		ИЗМН													
Att SGL TRG:V		dB 😑	<b>SWT</b> 2	5 ms	٧B١	<b>м</b> з мн	IZ												
●1Pk Clrw	10																		
													1						
-30 dBm—				<u> </u>				-					-				-		-
-40 dBm—								-									-		-
-50 dBm—	-TRG -54.																		_
-60 dBm	110 -54		<u> </u>																
-ou usin																			
-70 dBm—																			
manut	house	Marchin	homen	Allyn	habelen	Auntroy,	hur	uh he	ычилы	Å		adardad	mu	how	halenad	Hunn	Luh	white	hud
-80 dBm													-			0.0.00		• • •	
-90 dBm—		_		<u> </u>				<u> </u>									-		_
-100 dBm—								-					<u> </u>				-		$\neg$
-110 dBm—																			$\neg$
-120 dBm—																			
																			_
CF 5.29 G	Hz						691	pts									- 2	.5 ms	1

### Radar Type 1 test A Calibration Plot (5290MHz)

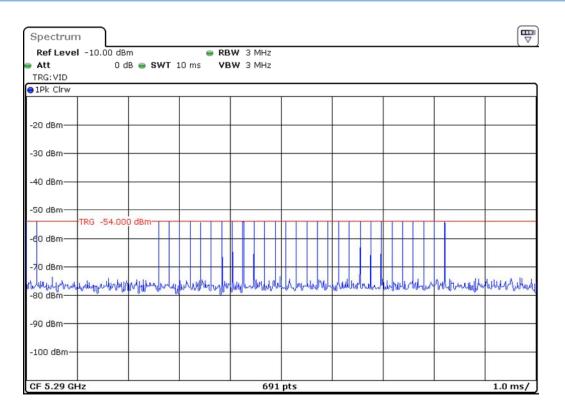




### Radar Type 1 test B Calibration Plot (5290MHz)

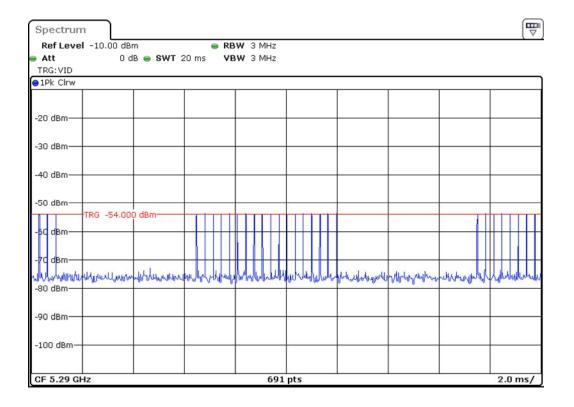


#### Radar Type 2 Calibration Plot (5290MHz)

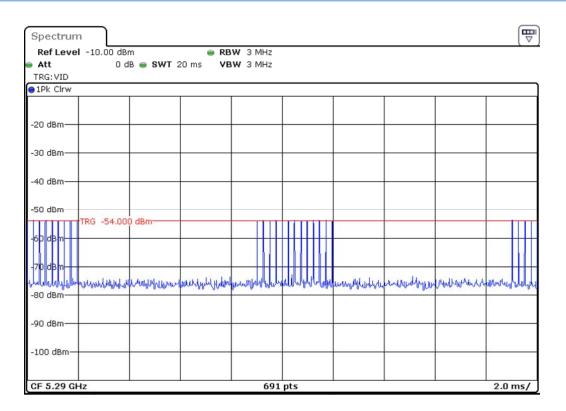




#### Radar Type 3 Calibration Plot (5290MHz)



#### Radar Type 4 Calibration Plot (5290MHz)

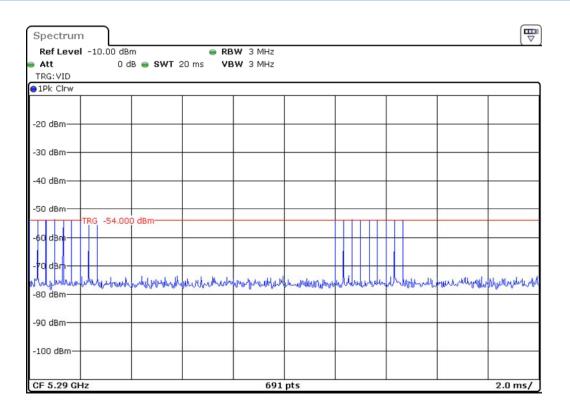




#### Radar Type 5 Calibration Plot (5290MHz)

Ref Level	-10.	00 dE	3m				•	RBV	V 3	3 MH	z											
Att		0	dB (	● SW	т 2	20 s		٧В١	N 3	в мн	z											
TRG: VID																						
∋1Pk Clrw																						
-20 dBm			+						╞										-		-	
-30 dBm			+						╞					_					-		-	
-40 dBm			-						$\vdash$					_					+		-	
-50 dBm					1					21												
-60 dBm	RG -	54.00	JO d	8m-				-										1				
-70 cBm					1			_														
Mulimitity	here	una	Andi	nhand	dale	w	hu	why	anto	llow	yaho	norma	nulp	wheth	hand	nhhhn	watels	have	belsedenderde	whend	-north	hardy
-90 dBm																						
-100 dBm																						
and the second second second second																						

### Radar Type 6 Calibration Plot (5290MHz)



### 5.1.2.3 Test Result

Please refer to ANNEX A



# ANNEX A TEST RESULT

## A.1 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

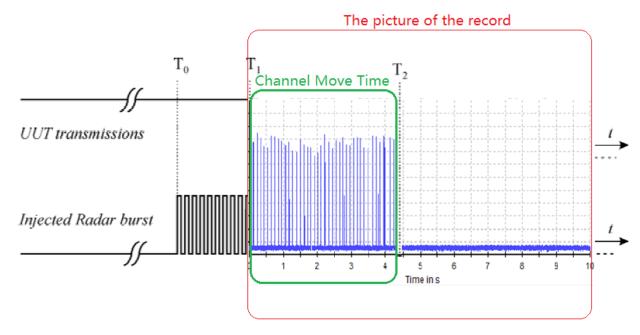
### Result of DFS Channel Shutdown

Note: The radar test signals are injected into the Master Device.

This test was investigated for different bandwidth (the lowest and the highest bandwidth).

Description	Operation Mode	Operation Channel	Value (s)	Limit
Channel Move Time	802.11a	52	3.730	10 s
Channel Closing Transmission Time	802.11a	52	0.038	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.
Channel Move Time	802.11a	100	3.655	10 s
Channel Closing Transmission Time	802.11a	100	0.038	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.
Channel Move Time	802.11ac (80 MHz)	58	3.680	10 s
Channel Closing Transmission Time	802.11ac (80 MHz)	58	0.037	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.
Channel Move Time	802.11ac (80 MHz)	106	3.750	10 s
Channel Closing Transmission Time	802.11ac (80 MHz)	106	0.037	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.
Test Verdict			Pass	





T0 denotes DFS test signal start generated on the channel.

T1 denotes the end of the radar burst.

T2 denotes the instant when the UUT has ceased all transmissions on the channel.

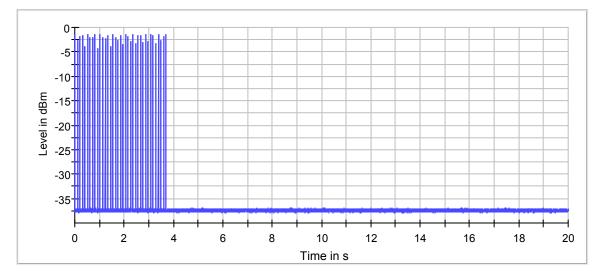
The time difference between T1 and T2 shall be measured. This value (*Channel Move Time*) shall be noted and compared with the limit.

The aggregate duration (*Channel Closing Transmission Time*) of all transmissions from the UUT on Chr during the *Channel Move Time* shall be compared to the limit.

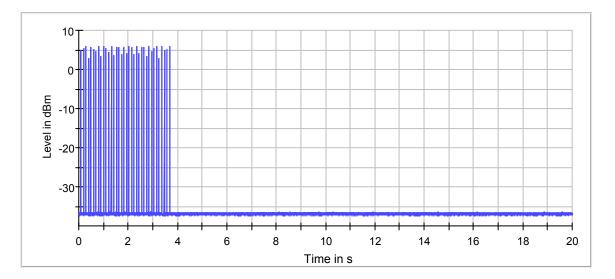
DFS Test schematic graphic



### 802.11a Channel 52

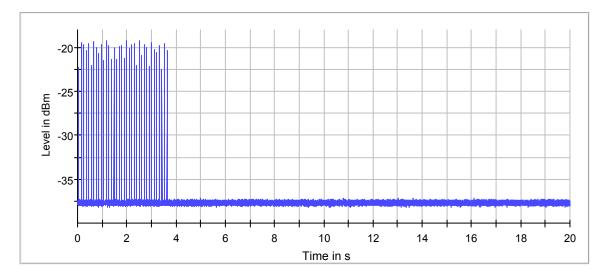


### 802.11a Channel 100

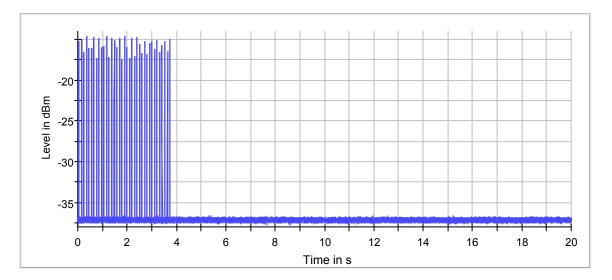




### 802.11ac(80 MHz) Channel 58



### 802.11ac(80 MHz) Channel 106

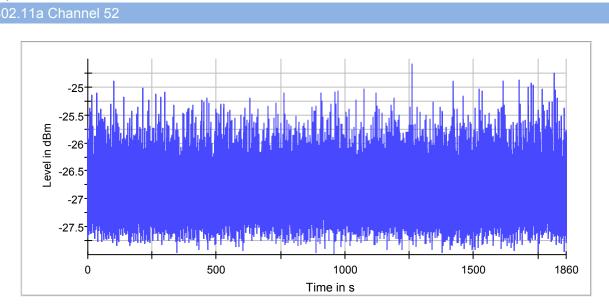




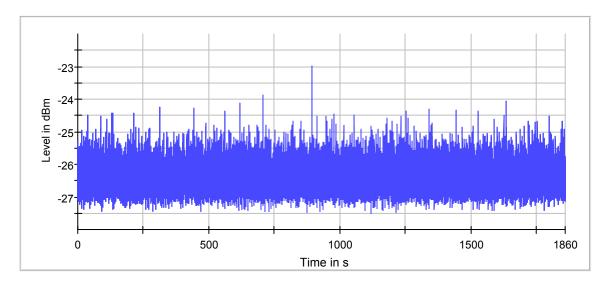
## A.2 NON- OCCUPANCY PERIOD

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

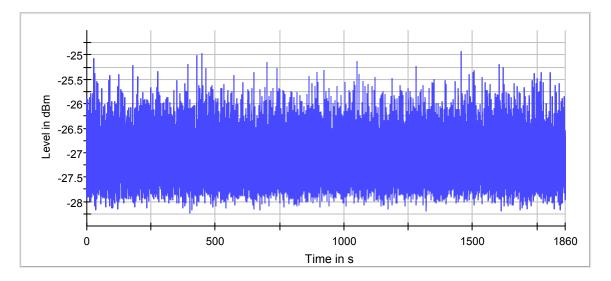




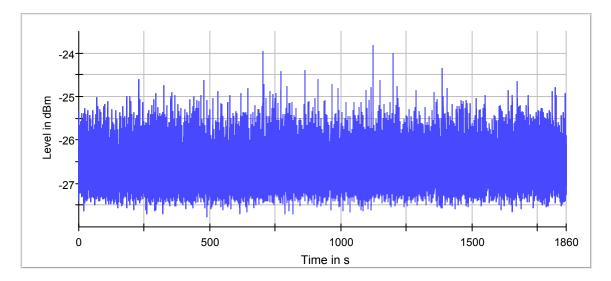




### 802.11ac(80 MHz) Channel 58









# ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ21A0580-AR.PDF".

# ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ21A0580-AW.PDF".

# ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ21A0580-AI.PDF".

--END OF REPORT--