# DYNAMIC FREQUENCY SELECTION DFS Test Report

**APPLICANT**: Motorola Solutions Inc.

**EQUIPMENT**: WAVE Two-Way Mobile Radio

**BRAND NAME**: Motorola Solutions

MODEL NAME : TLK 150 MODEL NUMBER : HK2131A

FCC ID : AZ492FT7127

STANDARD : FCC Part 15 Subpart E

**CLASSIFICATION**: (NII) Unlicensed National Information Infrastructure

The product was received on Nov. 04, 2019 and completely tested on Jan. 09, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Jason Jia

Approved by: James Huang / Manager

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FZ9N0421	Rev. 01	Initial issue of report	Feb. 21, 2020
FZ9N0421	Rev. 02	Update the equipment name.	Mar. 10, 2020

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## SUMMARY OF DYNAMIC FREQUENCY SELECTION TEST

UNII	Bandwidth and Channel	Description	Measured	Limit	Result
UNII Band 2-A		Channel Move Time	1160.839ms	10 sec	Pass
5250-5350MHz & UNII Band 2-C	40MHz (CH102) 5510MHz	Channel Closing Transmission time	<200ms + 4.4ms (aggregate)	200 ms + aggregate of 60 ms over remaining 10 s period	Pass
5470-5725MHz		Non-Occupancy Period and Client Beacon Test	No transmission or Beacons occurred	30 minutes	Pass

Note: Since the product is client without radar detection function, only Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Test are required to be performed.

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## **General Description**

## 1.1 Applicant

Motorola Solutions Inc.

8000 West Sunrise Boulevard, Fort Lauderdale, Florida

### 1.2 Manufacturer

Motorola Solutions Malaysia Sdn. Bhd.

Plot 2A, Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.

#### **Feature of Equipment Under Test** 1.3

Product Feature				
Equipment	WAVE Two-Way Mobile Radio			
Brand Name	Motorola Solutions			
Model Name	TLK 150			
Model Number	HK2131A			
FCC ID	AZ492FT7127			
EUT supports Radios application	WCDMA/LTE/GNSS WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11 a/n HT20/HT40 Bluetooth BR/EDR/LE			
HW Version	P2			
SW Version	TLK150_BASE_ENG_D03.00.32_APPS_D03.00.36			
EUT Stage	Identical Prototype			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

#### **Product Specification of Equipment Under Test** 1.4

Product Specification subjective to this standard				
DFS Function	Client without radar detection function			
Tx/Rx Channel Frequency Range	5260 MHz ~ 5320 MHz			
TANKA Challiner i requelley Kange	5500 MHz ~ 5720 MHz			
	<5260 MHz ~ 5320 MHz>			
	802.11a			
	802.11n HT20			
ELIT cupport WI AN function	802.11n HT40			
EUT support WLAN function	<5500 MHz ~ 5720 MHz>			
	802.11a			
	802.11n HT20			
	802.11n HT40			
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)			

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#### 1.5 **Modification of EUT**

No modifications are made to the EUT during all test items.

#### 1.6 **Testing Site**

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.			
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone			
Test Site Location	Jiangsu Province 215300 People's Republic of China			
lest Site Location	TEL: +86-512-57900158			
	FAX: +86-512-579009	58		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	
Test Site NO.	DFS01-KS	CN1257	314309	

#### 1.7 **Applied Standards**

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

- FCC Part 15 Subpart E
- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
- FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

## 1.8 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	HW / FW Version	Power Cord
1.	WLAN AP Cisco	Ciaca	Air-CAP3072E-A-K9	LDK102087	HW:NA	Chielded 1.0 m
		Cisco			FW: 15.2(4)JB6	Shielded, 1.8 m
	Notebook Lenovo	Lenovo Edge E335	Edea 5225	PPD-AR5B95	N/A	AC I/P:
١						Unshielded, 1.2 m
2.			Euge E335			DC O/P:
						Shielded, 1.8 m

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## 1.9 Test tool software version

Item	Trade Name	Model Name	FW Version
1.	KEY-SIGHT	N7607B Signal Studio	3.0.0.0

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## 2 Requirements and Parameters for DFS Test

## 2.1 Summary of Dynamic Frequency Selection Test

Bandwidth and Channel	Test Items	Limit
	Channel Move Time	10 sec
40MHz (CH102) 5510MHz	Channel Closing Transmission time	200 ms + aggregate of 60 ms over remaining 10 s period
	Non-Occupancy Period and Client Beacon Test	30 minutes

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## 2.2 Applicability of DFS Requirements

EUT is client and operates as client without radar detection function.

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

	Operational Mode			
Requirement	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

	Operational Mode			
Requirement	Master	Client Without Radar Detection	Client With Radar Detection	
DFS Detection Threshold	Yes	Not required	Yes	
<b>Channel Closing Transmission Time</b>	Yes	Yes	Yes	
Channel Move Time	Yes	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	Yes	
Client Beacon Test	N/A	Yes	Yes	

	Operational Mode		
Additional requirements for devices with multiple bandwidth modes	Master or Client With Radar Detection	Client Without Radar Detection	
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required	
Channel Move Time and Channel Closing Transmission 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	

#### Note

Frequencies selected for statistical performance check (Section 7.8.4) 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.

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## 2.3 Interference Threshold values, Master or Client incorporating **In-Service Monitoring**

Maximum Transmit Power	Value (see notes 1 and 2)		
≥ 200 milliwatt	-64 dBm		
< 200 milliwatt	-62 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.

The radar Detection Threshold, lowest antenna gain is the parameter of Interference radar DFS detection threshold, The Interference Detection Threshold is the (-62dBm) + (0) [dBi]+ 1 dB= -61 dBm.

## 2.4 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 99% power bandwidth		
	See Note 3.		

Note 1: 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 transmission.

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 changes (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 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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### 2.5 Short Pulse Radar Test Waveforms

As the EUT is a Client Device with no Radar Detection, only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	60%	30
1	1	Test A Test B	Roundup $ \left\{                                  $	60%	30
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
Aggrega	Aggregate (Radar Types 1-4)			80%	120

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 range of 518-3066  $\,\mu$  sec, with a minimum increment of 1  $\,\mu$  sec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

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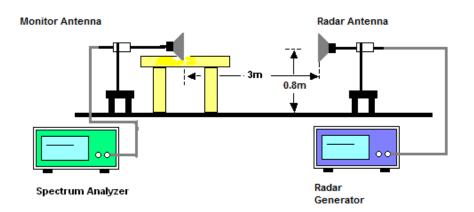
## 3 Calibration Setup and DFS Test Results

## 3.1 Calibration of Radar Waveform

#### 3.1.1 Radar Waveform Calibration Procedure

The Interference Radar Detection Threshold Level is (-62dBm) + (0) [dBi]+ 1 dB= -61dBm that had been taken into account the output power range and antenna gain. The following equipment setup was used to calibrate the radiated Radar Waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz to measure the type 0 radar waveform. The spectrum analyzer had offset -4.5dB to compensate receiving horn antenna gain 10.5dBi and RF cable loss 6dB. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-62dBm) + (0) [dBi]+ 1 dB= -61 dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

#### 3.1.2 Radiated Calibration Setup



#### 3.1.3 Calibration Deviation

There is no deviation with the original standard.

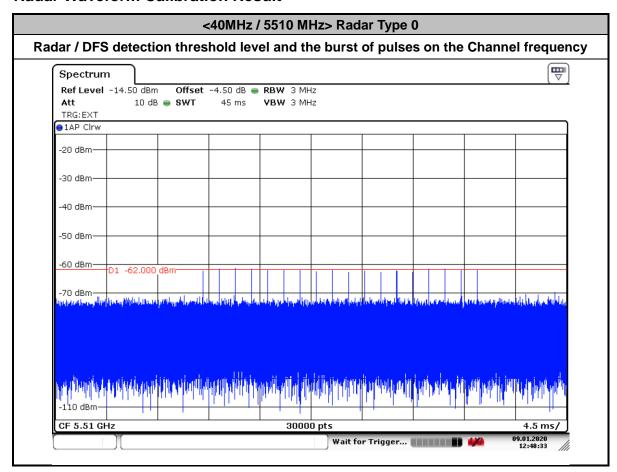
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### 3.1.4 Radar Waveform Calibration Result



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# 3.2 In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

#### 3.2.1 Limit of In-Service Monitoring

The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of *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* changes (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.

Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel. The non-associated Client Beacon Test is during the 30 minutes observation time. The EUT should not make any transmissions in the DFS band after EUT power up.

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#### 3.2.2 Test Procedures

1. The radar pulse generator is setup to provide a pulse at frequency that the Master and Client are operating. A type 0 radar pulse with a 1us pulse width and a 1428 us PRI is used for the testing.

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- 2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at a level of approximately -62dBm at the antenna of the Master device.
- 3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4. A U-NII device operating as a Client Device will associate with the Master at Channel. The MPEG file "TestFile.mpg" specified by the FCC is streamed from the "file computer" through the Master to the Client Device and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5. 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. At time T0 the Radar Waveform generator sends a Burst of pulse of the radar waveform at Detection Threshold + 1dB.
- 6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). One 12 seconds plot is reported for the Short Pulse Radar Types 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.4ms)= S (12000ms) / B (30000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.4 ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8. Measure the EUT for more than 30 minutes following the channel move time to verify that no transmissions or beacons occur on this Channel.
- 9. The test frequency, bandwidth and data rate as following table:

BW / Channel	Test Data Rate
40MHz / 5510MHz	MCS0

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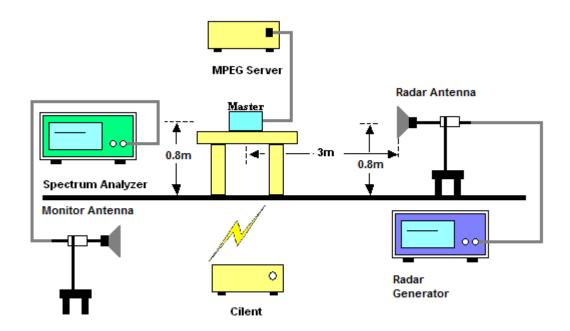
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## 3.2.3 Test Setup

Radiated Test Setup Photo



### 3.2.4 Test Deviation

There is no deviation with the original standard.

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# 3.2.5 Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

Test Mode :	Client without radar detection	Temperature :	<b>24.3</b> ℃
Test Engineer :	Eloise Wang	Relative Humidity :	45%

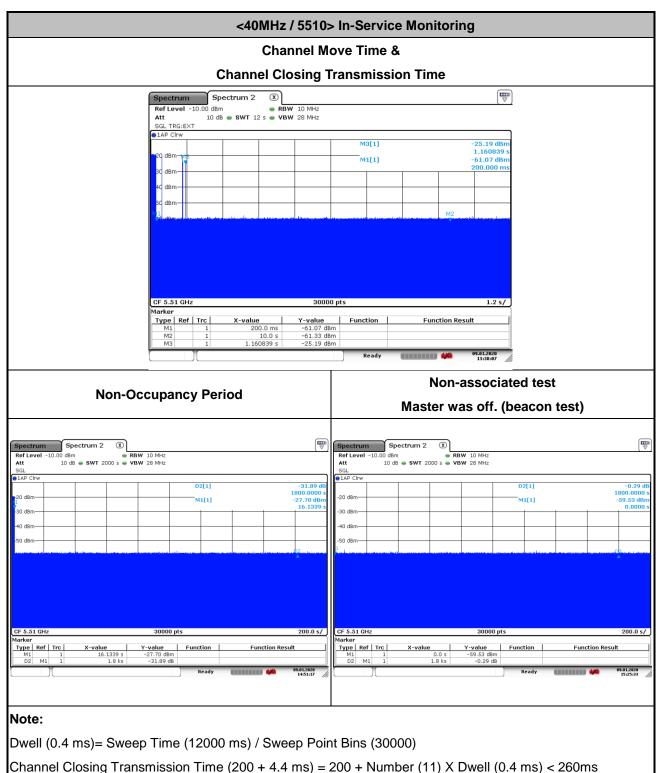
BW / Channel	Test Item	Test Result	Limit	Pass/Fail
408411-	Channel Move Time	1160.839 ms	< 10s	Pass
40MHz (5510MHz)	Channel Closing Transmission Time	200ms + 4.4 ms	< 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass

**Note:** 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 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

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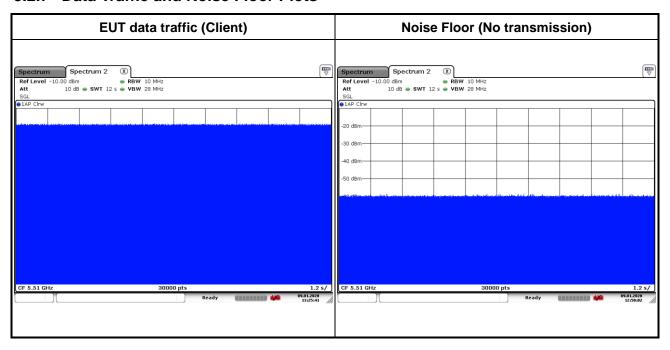
# 3.2.6 Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test Plots

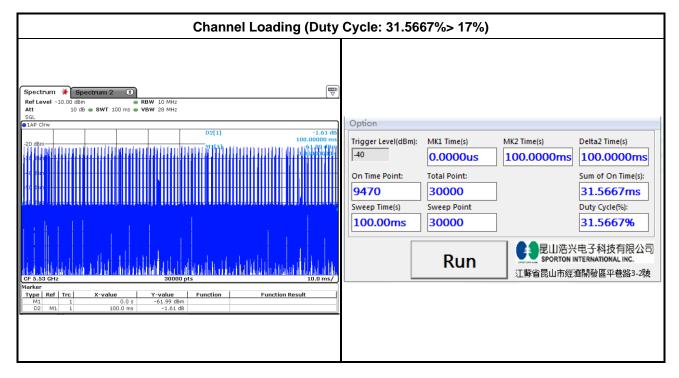


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#### 3.2.7 Data Traffic and Noise Floor Plots





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## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 16, 2019	Jan. 09, 2020	Apr.18, 2020	Conducted (DFS01-KS)
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 14, 2019	Jan. 09, 2020	Jan. 13, 2020	Conducted (DFS01-KS)
Vector Signal Generator	R&S	SMJ100A	101908	100kHz~6GHz	Jan. 14, 2019	Jan. 09, 2020	Jan. 13, 2020	Conducted (DFS01-KS)
Horn Antenna	BEIJING XIBAO	XB-WDB- 1-18	040505	1GHz~18GHz	Jan. 14, 2019	Jan. 09, 2020	Jan. 13, 2020	Conducted (DFS01-KS)
Active Hore Antenna	Com-Power	AHA-118	701030	1GHz~18GHz	Jan. 14, 2019	Jan. 09, 2020	Jan. 13, 2020	Conducted (DFS01-KS)

NCR: No Calibration Required

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