

# FCC DFS Test Report

## FCC ID: LDKDSKH2377

This report concerns: Original Grant

Project No	: 2106H020
Project No.	
Equipment	: Cisco Webex Desk Hub
Brand Name	: Cisco
Test Model	: CD-DSKH
Series Model	: N/A
Applicant	: Cisco Systems,Inc
Address	: 125 West Tasman Drive, San Jose, Califomia, United States
Manufacturer	: Cisco Systems,Inc.
Address	: 170 West Tasman Drive, San Jose, CA, USA, 95134
Factory	: 1) WISTRON INFOCOMM (ZHONGSHAN) CORPORATION
	2) WISTRON MEXICO S.A DE C.V
Address	1) NO.38 EAST KEJI ROAD, ZHONGSHAN TORCH DEVELOPMENT
	ZONE, ZHONGSHAN CITY, GUANGDONG, CHINA
	2) CALLE BAUDELIO PÈREZ MUCHARRAS, NO. 420 ORIENTE, COL.
	ZARAGOZA, CD. JUAREZ, CHIHUAHUA, C.P. 32700, MEXICO
Date of Receipt	: Jun. 21, 2021
Date of Test	: Jun. 21, 2021~Jul. 26, 2021
Issued Date	: Oct. 20, 2021
Report Version	: R01
Test Sample	: Engineering Sample No.:
	EUT:SH20210609121 for radiated; SH20210609122 for Conducted;
	Adapter:SH20210609121-4, SH20210609121-5
Standard(s)	<ul> <li>FCC Part 15, Subpart E (Section 15.407) / FCC 06-96</li> <li>FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01</li> <li>FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02</li> <li>FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02</li> </ul>

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Maker Qi

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#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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### **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 18, 2021
R01	Revised report to address TCB's comments.	Oct. 20, 2021

### **1. EUT INFORMATION**

### **1.1 EUT SPECIFICATION TABLE**

Product Name	Cisco Webex Desk Hub
Brand Name	Cisco
Test Model	CD-DSKH
Series Model	N/A
Model Difference(s)	N/A
Software Version	novum1.1.0
Hardware Version	P2A-1
Operational Mode	Slave
Operating Frequency Range	UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz
Modulation	OFDM

Note: This device was functioned as a

☐Master ☐Slave device without radar detection ☐Slave device with radar detection

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

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#### 2. Channel List:

802.11a 802.11n 20MHz 802.11ac 20MHz		802.11n 40MHz 802.11ac 40MHz		802.11ac 80MHz	
UNII	-2A	UNII-2A		UNI	I-2A
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
UNII	-2C	UNI	I-2C	UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

#### 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Cable antenna	N/A	6.67	N/A
2	N/A	N/A	Cable antenna	N/A	6.32	N/A

Note:

 Any transmit signals are correlated with each other, so Directional gain=10log[(10<sup>G1/20</sup>+10<sup>G2/20</sup>+...10<sup>GN/20</sup>)2/N]dBi, that is Directional gain=10log[(10<sup>6.67/20</sup>+10<sup>6.32/20</sup>)2/2]dBi =9.51. So, the UNII-1, UNII-2A and UNII-2C output power limit is 23.98-(9.51-6)=20.47, the UNII-3 output power limit is 30-(9.51-6)=26.49. The UNII-1, UNII-2A and UNII-2C power spectral density limit is 11-(9.51-6)=7.49, the UNII-3 power spectral density limit is 30-(9.51-6)=26.49.

 This EUT supports CDD, and all antenna gains are not equal, so Directional gain=10log[(10<sup>G1/20</sup>+10<sup>G2/20</sup>+...10<sup>GN/20</sup>)2/N]dBi, that is Directional gain=10log[(10<sup>6.67/20</sup>+10<sup>6.32/20</sup>)2/2]dBi =9.51. So, the UNII-1, UNII-2A and UNII-2C power spectral density limit is 11-(9.51-6)=7.49, the UNII-3 power spectral density limit is 30-(9.51-6)=26.49. For power measurements, Directional gain = 6.67dB.

So, the UNII-1, UNII-2A and UNII-2C output power limit is 23.98-(6.67-6)=23.31,

the UNII-3 output power limit is 30-(6.67-6)=29.33.

- 3. Beamforming gain=3 dBi
- 4. The antenna gain and beamforming gain are provided by the manufacturer.



### 1.2 CONDUCTED OUTPUT POWER AND EIRP

Mode: TX (11n 20MHz)						
Frequency Band	Max Couducted Output	Max EIRP (dBm)		Max EIRP		
(MHz)	Power (dBm)	Gain		(mW)		
5250~5350	18.13	6.67	24.80	301.9952		
5470~5725	18.32	6.67	24.99	315.5005		

Table 2: The Conducted Output Power and EIRP List

Mode: TX (11n 40MHz)						
Frequency Band	Max Couducted Output Antenn		Max EIRP (dBm)	Max EIRP		
(MHz)	Power (dBm)	Gain		(mW)		
5250~5350	18.22	6.67	24.89	308.3188		
5470~5725	18.52	6.67	25.19	330.3695		

Mode: TX (11ac 80 MHz)					
Frequency Band	Max Couducted Output	Antenna	Max EIRP (dBm)	Max EIRP	
(MHz)	Power (dBm)	Gain		(mW)	
5250~5350	15.89	6.67	22.56	180.3018	
5470~5725	17.60	6.67	24.27	267.3006	

Note: The device has the function of transmitting power control (TPC). The device has a minimum capacity of 6dB below the average EIRP of 30 dBm.

#### **1.3TEST FACILITY**

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China BTL's Test Firm Registration Number for FCC: 476765 BTL's Designation Number for FCC: CN1241



### 2.U-NII DFS RULE REQUIREMENTS

#### 2.1 WORKING MODES 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 3 and 4 for the applicability of DFS requirements for each of the operational modes.

Table 3: Applicability of DFS requirements prior to use a channel

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

Table 4: 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	$\checkmark$	✓	✓	
U-NII Detection Bandwidth	$\checkmark$	Not required	~	



#### 2.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

#### DETECTION THRESHOLD VALUES

 Table 5: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

Maximum Transmit Power	Value (See Notes 1 and 2)	
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	-64 dBm	
spectral density requirement	-04 UBIII	

**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.

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 UNII 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.



#### 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 0	Pulse Width (µsec) 1	PRI (μsec) 1428	Number of Pulses	Minimum Percentage of Successful Detection See Note 1	Minimum Number of Trials See Note 1			
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 range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\operatorname{Roundup} \left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix} \cdot \\ \begin{pmatrix} \frac{19 \cdot 10^6}{\operatorname{PRI}_{\mu \operatorname{sec}}} \end{pmatrix} \right\}$	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			
Aggregate (	Radar Types	1-4)		80%	120			
Note 1: Sho	ort Pulse Rada	<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move						

#### Table 7: Short Pulse Radar Test Waveforms.

**Note 1:** Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. 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.



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

Table 8: Long Pulse Radar Test Waveform

550-1005-201000-20001-38-2080%30The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of<br/>the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique<br/>waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for<br/>the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not

#### Table 9: Frequency Hopping 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
6	1	333	9	0.333	300	70%	30

### 3. TEST INSTRUMENTS

repeated from the previous waveforms.

#### Table 10: Test instruments list.

11			<b>T</b> N		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY56480561	Mar. 21, 2022
2	MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY56200484	Mar. 21, 2022
3	Power Divider	JUK	PD-2SF-2060	N/A	N/A
4	Power Divider	JUK	PD-2SF-2060	N/A	N/A
5	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021
6	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
7	Home Gateway	HUAWEI	DG8245V	N/A	N/A
8	Notebook	Lenovo	XIAOXIN PRO 13 2020	N/A	N/A
9	Wi-Fi Router	tp-link	Archer AX6000	N/A	N/A
10	Measurement Software	Keysight	N7607B Signal studio V3.0.0.0	N/A	N/A

Note: Calibration interval of instruments listed above is one year.



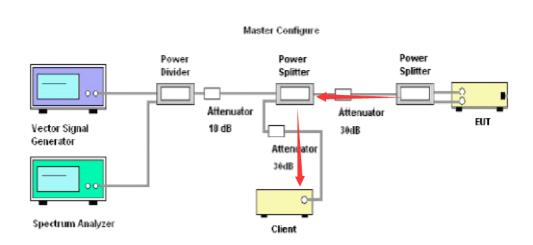
### 4. DYNAMIC FREQUENCY SELECTION (DFS) TEST

#### 4.1 DFS MEASUREMENT SYSTEM

#### **Test Precedure**

- 1. Master device and client device are set up by conduction method as the following configuration.
- 2. The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 4. Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to reach 17% channel loading as below.

#### Setup



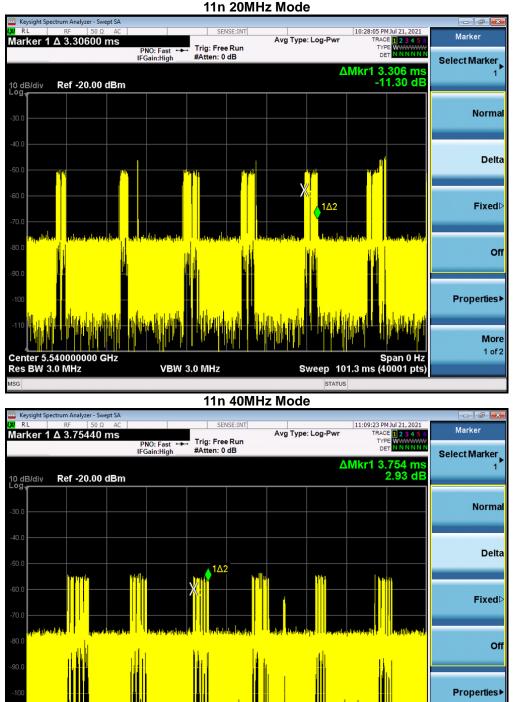


More 1 of 2

#### **Channel Loading**

Center 5.550000000 GHz Res BW 3.0 MHz

MSG



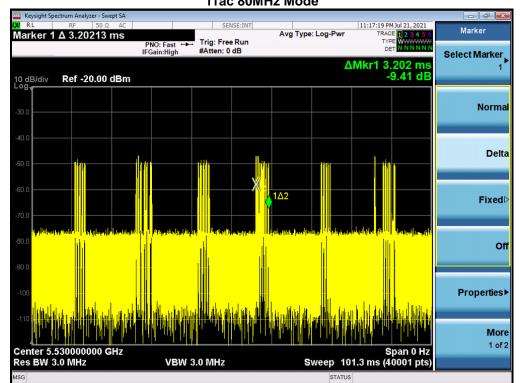
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VBW 3.0 MHz

Span 0 Hz Sweep 101.3 ms (40001 pts)

STATUS





11ac	80MHz	Mode
------	-------	------

Channel (MHz)	Marker Delta (ms)	Number	On Time (ms)	Total Time (ms)	Duty cycle (%)	Limit (%)
5540	3.306	6	19.836	101.3	19.58%	17.00
5550	3.754	6	22.524	101.3	22.23%	17.00
5530	3.202	6	19.212	101.3	18.97%	17.00



The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.



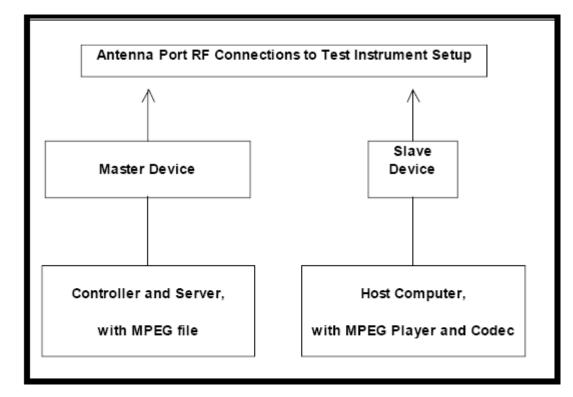
#### 4.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from –64 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.



#### 4.3 DEVIATION FROM TEST STANDARD

No deviation.



### **5. TEST RESULTS**

### 5.1 SUMMARY OF TEST RESULT

Clause	Test Parameter	Test Mode and Channel	Remarks	Pass/Fail
15.407	DFS Detection Threshold	-	No Applicable	N/A
15.407	Channel Availability Check Time	-	Not Applicable	N/A
15.407	Channel Move Time	11ac 20MHz 5540 MHz 11ac 40MHz 5550 MHz 11ac 80MHz 5530 MHz	Applicable	Pass
15.407	Channel Closing Transmission Time	11ac 20MHz 5540 MHz 11ac 40MHz 5550 MHz 11ac 80MHz 5530 MHz	Applicable	Pass
15.407	Non- Occupancy Period	11ac 20MHz 5540 MHz 11ac 40MHz 5550 MHz 11ac 80MHz 5530 MHz	Applicable	Pass
15.407	Uniform Spreading	-	Not Applicable	N/A
15.407	U-NII Detection Bandwidth	-	Not Applicable	N/A

#### 5.2 TEST MODE: DEVICE OPERATING IN MASTER MODE.

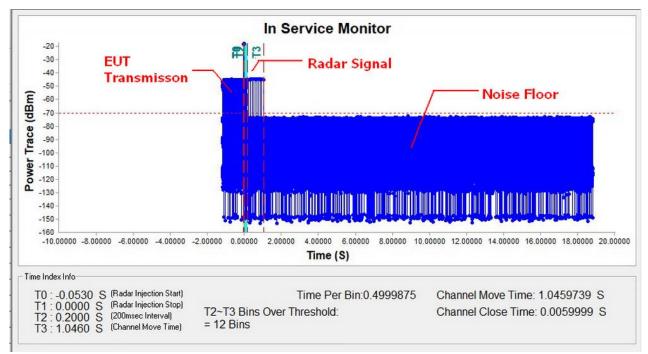
Master with injection at the Master. (Radar Test Waveforms are injected into the Master)



### 5.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

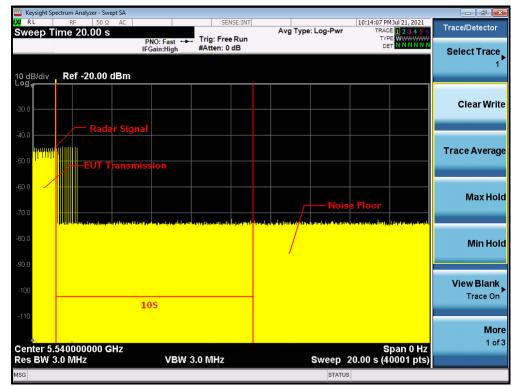
#### TX (11n 20MHz Mode)

#### Radar signal 0



#### **Note:** T0 denotes the Radar Injection Start.

- T1 denotes the start of Channel Move Time upon the end of the last Radar burst.
- T2 denotes the data transmission time of 200ms from T1.
- T3 denotes the end of Channel Move Time.

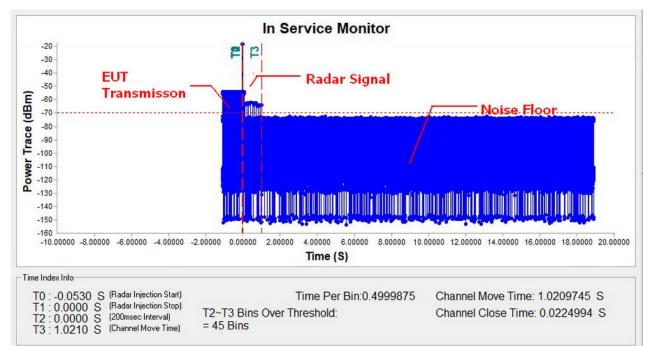


Note: An expanded plot for the device vacates the channel in the required 500ms



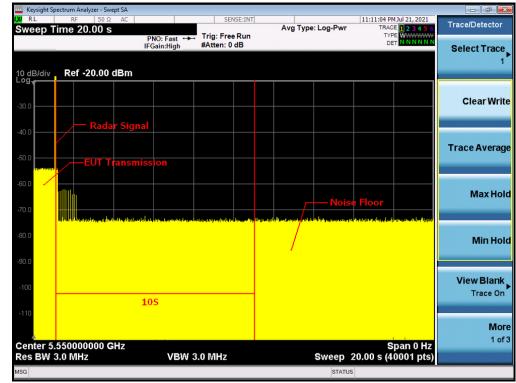
### TX (11n 40MHz Mode)

#### Radar signal 0



#### Note: T0 denotes the Radar Injection Start.

- T1 denotes the start of Channel Move Time upon the end of the last Radar burst.
- T2 denotes the data transmission time of 200ms from T1.
- T3 denotes the end of Channel Move Time.

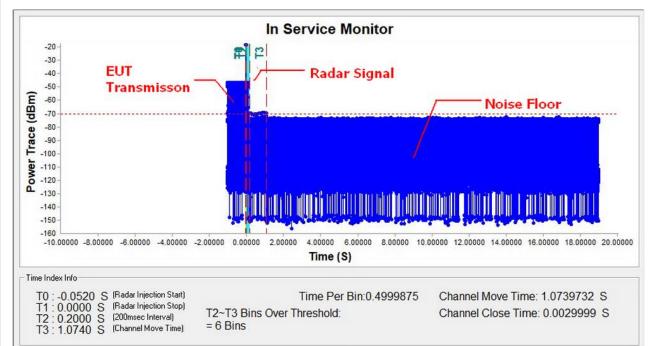


Note: An expanded plot for the device vacates the channel in the required 500ms



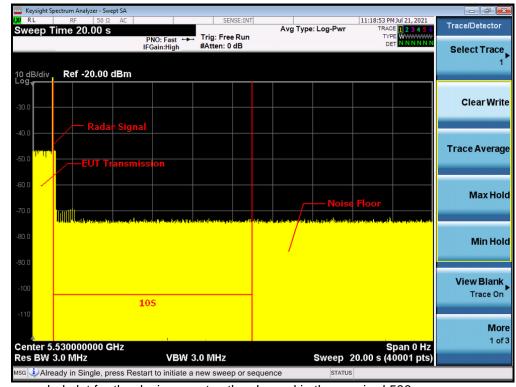
### TX (11ac 80MHz Mode )

#### Radar signal 0



#### **Note:** T0 denotes the Radar Injection Start.

- T1 denotes the start of Channel Move Time upon the end of the last Radar burst.
- T2 denotes the data transmission time of 200ms from T1.
- T3 denotes the end of Channel Move Time.



Note: An expanded plot for the device vacates the channel in the required 500ms



11n 20MHz Mode					
ltem	Measured Value(s)	Limit(s)			
Channel Move Time	0.0059999	10			
		200 milliseconds + an aggregate of			
Channel Close Time	1.0459739	60 milliseconds over remaining 10			
		second period.			

11n 40MHz Mode		
Item	Measured Value(s)	Limit(s)
Channel Move Time	1.0209745	10
Channel Close Time	0.0224994	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.

11ac 80MHz Mode		
Item	Measured Value(s)	Limit(s)
Channel Move Time	1.0739732	10
Channel Close Time	0.0029999	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.

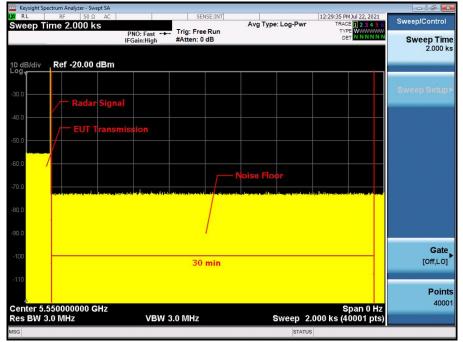
#### 5.4 NON- OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

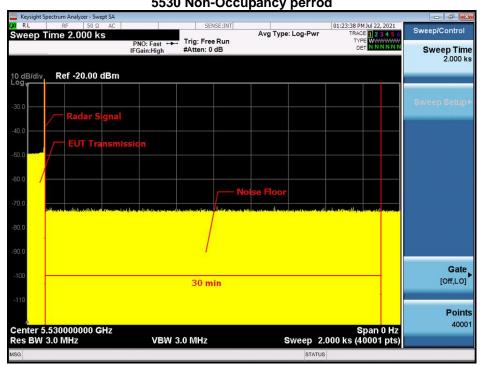


## TX (11n 20MHz Mode)

#### TX (11n 40MHz Mode) 5550 Non-Occupancy perrod







#### TX (11ac 80MHz Mode) 5530 Non-Occupancy perrod



## 6. EUT TEST PHOTO



End of Test Report