

FCC Radio Test Report

FCC ID: LDKESPRC2920

Report No. Equipment Model Name Brand Name	 BTL-FCCP-5-2403T072 UC Phone DP-9861 CISCO
Applicant Address	 Cisco Systems Inc 125 West Tasman Drive San Jose, CA 95134-1706 United States
Radio Function	: RLAN 5 GHz (U-NII 2A, U-NII 2C)
FCC Rule Part(s)	: FCC CFR Title 47, Part 15, Subpart E (15.407) (Only DFS)
Date of Receipt Date of Test Issued Date	: 2024/3/13 : 2024/3/26 ~ 2024/4/22 : 2024/5/6
Date of Receipt Date of Test Issued Date	(Only DFS) : 2024/3/13 : 2024/3/26 ~ 2024/4/22

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

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

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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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-5-2403T072	R00	Original Report.	2024/5/6	Valid



1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Test procedures accord	ing to the technical st	andards.			
Standard(s) Section	Desc	ription	Test Result	Judgement	Remark
15.407(h)	Dynamic Frequency	Selection (DFS)		Pass	
NOTE: (1) The report format ve	ersion is TP.1.1.1.				
1.1 REFERENCE TES	ST GUIDANCE				
FCC KDB 789033 D02 FCC KDB 905462 D02					
1.2 TEST FACILITY					
The test locations stated The test location(s) use No. 68-1, Ln. 169, Sec.	d to collect the test da	ata in this report are:			
(FCC DN: TW0659) □ C05	□ CB08	□ CB11	⊠ SR10	□ SR	11
1.3 TEST ENVIRONM	ENT CONDITIONS				
Test It	em	Environment Conditi	on Test Vol	tage Tes	ted by
Dynamic Frequency Sel		24 °C, 51 %	AC 12		ra Lin

2 EUT INFORMATION

2.1 EUT SPECIFICATION TABLE

Equipment	UC Phone	٦
Model Name		-
Brand Name		
Model Difference	N/A	٦
Power Source	#1 DC voltage supplied from AC/DC Adapter.# 2 DC Voltage supplied from PoE Adapter.	
Power Rating	#1 I/P: 100-240V~0.5A 50-60Hz O/P: 48.0V0.42A #2 I/P: 48V0.42A	
Products Covered	1 * AC/DC Adapter: PHIHONG / PSAA20R-480L6C 1 * Handset 1 * Wall Mount Kit 1 * LAN Cable	
Operational Mode	 Master Slave with radar detection Slave without radar detection 	
Operation Band	UNII-2A: 5250 MHz to 5350 MHz UNII-2C: 5470 MHz to 5725 MHz	
Operating Frequency	UNII-2A: 5260 MHz to 5320 MHz UNII-2C: 5500 MHz to 5700 MHz	
Modulation	OFDM	٦
Test Model	DP-9861	٦
Sample Status	Engineering Sample	1
EUT Modification(s)	N/A	

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

IEEE 802.	802.11a 11n (HT20) 1ac (VHT20)		11n (HT40) 1ac (VHT40)	IEEE 802.11	ac (VHT80)
UNII	-2A	UNI	I-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 80 IEEE 802.1 IEEE 802.11	1n (HT20)		11n (HT40) 1ac (VHT40)	IEEE 802.11	ac (VHT80)
UNII	-2C	UNI	I-2C	UNI	I-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) Table for Filed Antenna:

Antenna	Brand	Model Name	Antenna Type	Connector	Frequency (MHz)	Gain (dBi)
1	Foxconn	NFSP-202312	Dipole (On-Board)	N/A	5250 - 5350	4.07
1	1 OXCOINT	26001		11/7	5470 - 5725	4.11

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



2.2 EIRP POWER

Test Mode	UNII-2A				
Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5250 to 5350	12.95	4.07	17.02	50.35	NOTE (1)
Test Mode	UNII-2C				

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5470 to 5725	12.92	4.11	17.03	50.47	NOTE (1)

NOTE:

(1) EIRP Power (dBm) = Conducted Power (dBm) + Antenna Gain (dBi). Power (mW) = 1 mW * $10^{(dBm / 10)}$.



3 U-NII DFS RULE REQUIREMENTS

3.1 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 below for the applicability of DFS requirements for each of the operational modes.

Applicability of	DFS requiremen	ts prior to use a channel	
Requirement		Operational Mode	
Kequitement	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period			
DFS Detection Threshold		Not required	
Channel Availability Check Time		Not required	Not required
U-NII Detection Bandwidth		Not required	

Applicability of DFS requirements prior to use a channel

Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth modes	Master Device 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 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.

3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

DETECTION THRESHOLD VALUES

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection.

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
e.i.r.p. ≥ 200 milliwatt	-64 dBm
e.i.r.p. < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
e.i.r.p. < 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.

TEST LIMIT

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 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.

		Short Pulse Ra	adar Test Waveforms.		
Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Туре	Width	(µsec)		Percentage of	Number
	(µsec)			Successful	of
				Detection	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 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	$\operatorname{Roundup} \begin{cases} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^{6}}{\operatorname{PRI}_{\mu \operatorname{sec}}}\right) \end{cases}$	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	ur Type 0 should be u	used for the detection ba	ndwidth test, ch	annel move

Short Pulse Radar Test Waveforms.

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.



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 (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) 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.

_		- -	— .	
Frequency	/ Hoppina	Radar	lest	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



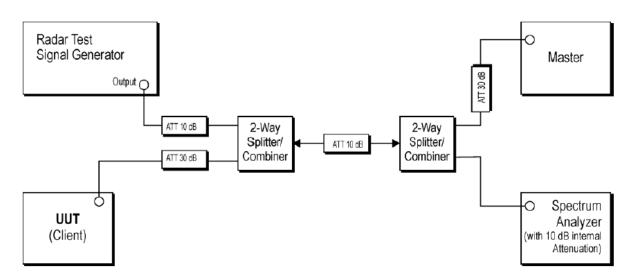
4 DYNAMIC FREQUENCY SELECTION (DFS) TEST

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" t o reach 17% channel loading as below

Setup



Radar Test Waveforms are injected into the Master.



Channel Loading			UNII-2A				
Spectrum Analyzer 1			UNII-27		SCPI	Frequ	uency V
Swept SA	50 0 #	Atten: 0 dB	PNO: Fast	Avg Type: Log-Power			لنكا
RI Coupling: DC Corr Co			Gate: Off IF Gain: High Sig Track: Off	Trig: Free Run W4	23456 	Center Frequency 5.290000000 GH	
1 Spectrum						Span 0.00000000 Hz	
Scale/Div 10 dB Log	Re	f Level -20.00 dE	3m			Swept Span	
-30.0		2Δ1				Zero Span	
-40.0	1Y					Full Span	
-60.0						Start Freq 5.290000000 GF	17
-80.0	dependence de training		nan ¹⁰¹ ¹ ng mang ng ma		o de gran Ul avan	Stop Freq	
-90.0 -100						5.290000000 GH	iz
- 110 <mark>Jelus, Alasaidi Mussia en decendiri Mussia en international de ser a dessentationes de ser a dessentationes de ser a dessentation en la serie de serie a dessentation en la serie de se</mark>	n, "dinio, J.a. Grika Jiana	<mark>a yana kale da kalendara</mark>	a handalatakan dalata dilit. Ukata	<mark>as a nadali la saka katali na k</mark>	sta slite lite dil no di	AUTO TUNE	
Center 5.290000000 GHz Res BW 3.0 MHz	v	ideo BW 3.0 MH	Z	Sweep 1.00 s (4	Span 0 Hz 0001 pts)	CF Step	
5 Marker Table						3.000000 MHz	
	X		Function Fu	Inction Width Function	Value	Auto Man	
1 N 1 t 2 Δ1 1 t (Δ)	363.5 ms 29.53 ms (Δ					Freq Offset	
3 Δ1 1 t (Δ)	95.05 ms (Δ) -3.74 dB				0 Hz	
5						X Axis Scale	
	2, 2024	\wedge				Lin Signal Track	
	2, 2024 2:27 PM					(Span Zoom)	
	ON	Numbers	On Time	Period	Chanr	nel Loading	Required
Test Band	ON (ms)	Numbers (ON)	On Time (ms)	Period (ON+OFF) (ms)		nel Loading atio (%)	Required Ratio (%)
Test Band 5.250 GHz to 5.350 GHz					Ra	nel Loading atio (%) 1.07%	
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ra	atio (%)	Ratio (%)



Channel Loading			UNII-2C				
Spectrum Analyzer 1			0111-20	,	SCPI	Free	uency v 洪
KEYSIGHT Input: RF RI Coupling: DC Corr CC			PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWW NNNNN	Center Frequend 5.530000000 G	
1 Spectrum V Scale/Div 10 dB Log	Ret	f Level -20.00 dE	ßm	ΔMkr3	163.6 ms 2.75 dB	Span 0.00000000 Hz Swept Spar Zero Span	
-40.0 -50.0 -60.0 -70.0		<u>,</u> 2∆1		<u>3</u> ∆1		Full Span Start Freq 5.530000000 G	Hz
-80.0 -90.0 -100 -110 <mark>-110</mark>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	n film av and a land the fall and the	omkult kali <mark>di .</mark> suki kau, d	ethoreställelisten Meilsten Kolossen (s. 194	Neverile di secondece et de	Stop Freq 5.530000000 G AUTO TUN	
Center 5.53000000 GHz Res BW 3.0 MHz 5 Marker Table	V	ideo BW 3.0 MH	Z	Sweep 501 m	Span 0 Hz		
Mode Trace Scale X 1 N 1 t X 2 Δ1 1 t (Δ) 3 Δ1 1 t (Δ) 4	K 192.2 ms 48.38 ms (Δ) 163.6 ms (Δ)	-65.25 dBm 9.90 dB	Function Fu	unction Width Func	ion Value	Man Freq Offset 0 Hz	
	2, 2024 36 PM					X Axis Scale Log Lin Signal Track (Span Zoom)	
	ON	Numbers	On Time	Period	Chan	nel Loading	Required
Test Band	(ms)	(ON)	(ms)	(ON+OFF) (ms	s) Ra	atio (%)	Ratio (%)
5.470 GHz to 5.725 GHz	48.38	1	48.38	163.60	2	9.57%	≥ 17%

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.



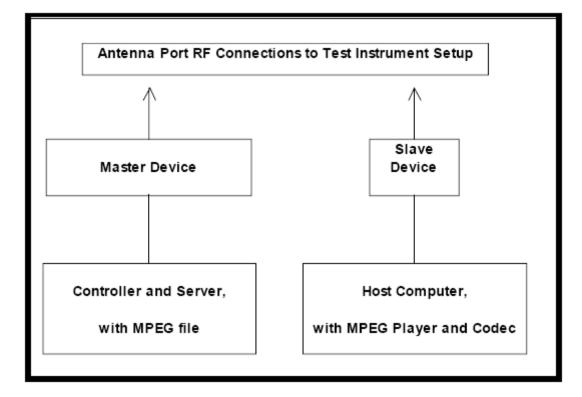
4.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

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 –62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -62 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 –62 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 LIST OF MEASURING EQUIPMENTS

	Dynamic Frequency Selection (DFS)										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until					
1	Spectrum Analyzer	R&S	FSP 40	101139	2024/3/8	2025/3/7					
2	MXG Vector Signal Generator	Agilent	N5182B	MY51350711	2024/2/21	2025/2/20					
3	MXA Signal Analyzer	Keysight	N9020B	MY63490160	2024/2/6	2025/2/5					

	Master Device									
Item	Kind of Equipment	Manufacturer	Type No.	FCC ID	IC	Note				
1	AP	ASUS	RT-AX88U	MSQ-RTAXHP00	3568A-RTAXHP00	-				

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



6 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2403T072-FCCP-1 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2403T072-1 (APPENDIX-EUT PHOTOS).





8 TEST RESULTS

8.1 SUMMARY OF TEST RESULT

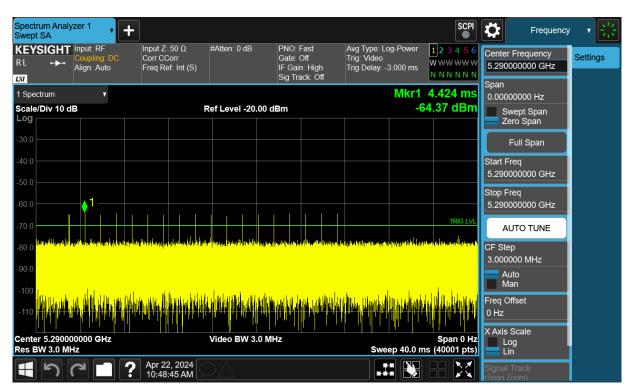
Clause	Test Parameter	Test Bandwidth / Channel	Remarks	Pass/Fail
15.407	DFS Detection Threshold	80MHz / 5290, 5530 MHz	Applicable	Pass
15.407	Channel Availability Check Time	-	Not Applicable	N/A
15.407	Channel Move Time	80MHz / 5290, 5530 MHz	Applicable	Pass
15.407	Channel Closing Transmission Time	80MHz / 5290, 5530 MHz	Applicable	Pass
15.407	Non- Occupancy Period	80MHz / 5290, 5530 MHz	Applicable	Pass
15.407	Uniform Spreading	-	Not Applicable	N/A
15.407	U-NII Detection Bandwidth	-	Not Applicable	N/A

8.2 EST MODE: DEVICE OPERATING IN MASTER MODE.

The EUT is slave equipment, it need a master device when testing. Client with injection at the Master. (Radar Test Waveforms are injected into the Master)

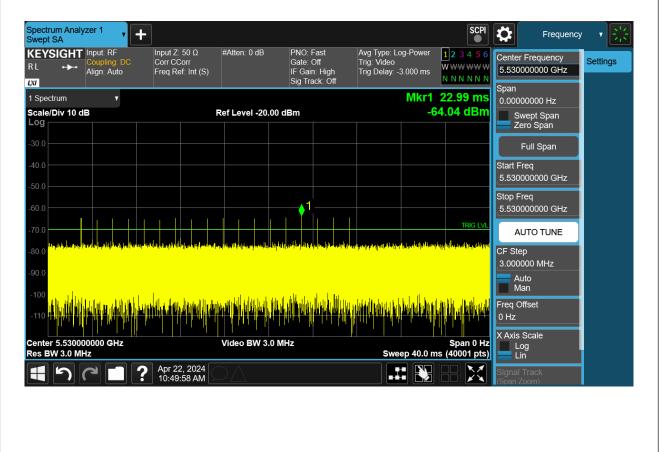


8.3 DFS DETECTION THRESHOLD



Test Bandwidth / Channel : 80MHz / 5290 MHz

Test Bandwidth / Channel : 80MHz / 5530 MHz

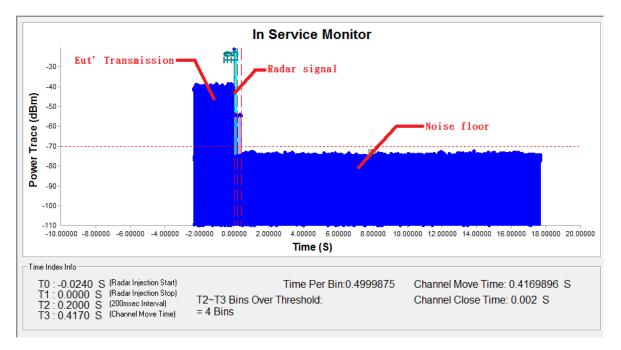




8.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

Test Bandwidth / Channel : 80MHz / 5290 MHz





Note: T0 denotes the Radar Injection Start.

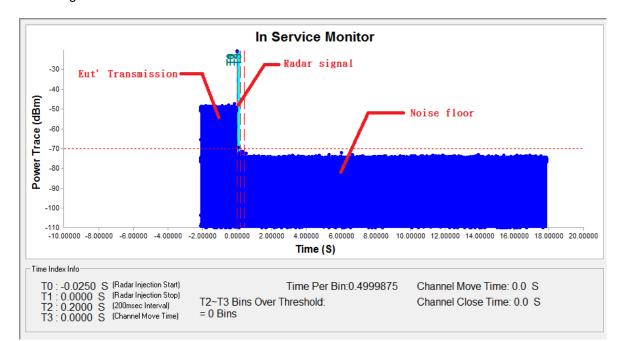
- T1 denotes the start of Channel Move Time upon the end of the last Radar burst.
- T2 denotes the data transmission time of 200ms from T1.
- T3 denotes the end of Channel Move Time.

	T Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 0 dB	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log Trig: Free Run		Center Frequency 5.290000000 GHz Span	Settings
Spectrum cale/Div 10 .og 30.0 40.0	• dB 1 - 1 		Ref Level -20.00	dBm		ΔMkr2 10.00 s -53.79 dB	0.00000000 Hz Swept Span Zero Span Full Span	
50.0 50.0 70.0 80.0 90.0				<u></u> 2∆			Start Freq 5.290000000 GHz Stop Freq	
100 110	0000000 GHz MHz		Video BW 3.0 M	MHz	Swe	Span 0 Hz ep 20.0 s (40001 pts)	5.29000000 GHz AUTO TUNE CF Step	
Marker Table Mode	Trace Scale	X 2.321 s	Y -20.86 dBm	Function	Function Width	Function Value	3.000000 MHz Auto Man Freq Offset	
1 N	<u>1</u> t	<u>(Δ) 10.00 s</u>	(Δ) -53.79 dB				0 Hz X Axis Scale	
1 Ν 2 Δ1 3 4 5 6							Log Lin	



Test Bandwidth / Channel : 80MHz / 5530 MHz

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.

Spectrum Analyze Swept SA]				SCPI	Frequenc	y v 🔆
	but: RF pupling: DC gn: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 0 dB	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log- Trig: Free Run	Power 123456 WWWWWW NNNNNN	Center Frequency 5.530000000 GHz	Settings
1 Spectrum	•				,	ΔMkr2 10.00 s	Span 0.00000000 Hz	
Scale/Div 10 dB	1	F	Ref Level -20.00	dBm		-55.18 dB	Swept Span Zero Span	
-30.0							Full Span	
-50.0 -50.0 -60.0 -70.0	Militaria and a second second			<u></u> 2∆1			Start Freq 5.530000000 GHz	
-80.0 -90.0 -100							Stop Freq 5.530000000 GHz	
-110 Center 5.5300000	00 GHz		Video BW 3.0 I	WHz		Span 0 Hz		
Res BW 3.0 MHz 5 Marker Table	•				Swee	ep 20.0 s (40001 pts)	CF Step 3.000000 MHz	
Mode Tra	ace Scale	X	Y	Function F	unction Width	Function Value	Auto Man	
1 Ν 2 Δ1 3	t t (<u>/</u>	2.115 s (a) 10.00 s	-20.80 dBm Δ) -55.18 dB				Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	
1 1	2	Apr 22, 2024 2:29:19 PM					Signal Track (Span Zoom)	

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



Bandwidth	80 MHz / 5290 MHz			
Item	Measured Value(s)	Limit(s)		
Channel Move Time	0.4169896	10		
		200 milliseconds + an aggregate of		
Channel Close Time	0.002	60 milliseconds over remaining 10		
		second period		

Bandwidth	80 MHz / 5530 MHz			
Item	Measured Value(s)	Limit(s)		
Channel Move Time	0.0	10		
		200 milliseconds + an aggregate of		
Channel Close Time	0.0	60 milliseconds over remaining 10		
		second period		



8.5 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.

