Dynamic Frequency Selection (DFS) Test Report

Product Name	Mobile Computer
Model No	RS35
FCC ID	Q3N-RS35

Applicant	Cipherlab Co, Ltd.
Address	12F, NO.333, SEC.2, DUNHUA S. RD., TAIPEI, TAIWAN, R.O.C.

Date of Receipt	June 08, 2020
Issued Date	July 02, 2020
Report No.	2060284R-E3032610103
Report Version	V1.0
Iac-MRA	Testing Laboratory 3023

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.



DFS Test Report

Issued Date: July 02, 2020 Report No.: 2060284R-E3032610103



Product Name	Mobile Computer
Applicant	Cipherlab Co, Ltd.
Address	12F, NO.333, SEC.2, DUNHUA S. RD., TAIPEI, TAIWAN, R.O.C.
Manufacturer	Cipherlab Co, Ltd.
Model No.	RS35
FCC ID.	Q3N-RS35
EUT Rated Voltage	AC 100-240V, 50-60Hz or DC 5V by USB or DC 3.8V by battery
EUT Test Voltage	AC 120V / 60Hz
Trade Name	CIPHERLAB
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E 15.407 (h)
	KDB 905462
Test Result	Complied

Documented By :

:

:

Gente Chang

(Senior Adm. Specialist / Genie Chang)

Tested By

Yun Che Chen

(Engineer / Yunche Chen)

Approved By

(Director/Vincent Lin)



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Attachment 1: EUT Test Photographs



Revision History

Report No.	Version	Description	Issued Date
2060284R-E3032610103	V0.1	Initial issue of report.	2020-07-02

1. GENERAL INFORMATION

1.1. EUT Description

D 1 X			
Product Name	Mobile Computer		
Trade Name	CIPHERLAB		
FCC ID.	Q3N-RS35		
Model No.	RS35		
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz, 5745-5825MHz		
	802.11n-40MHz: 5190-5310, 5510-5670MHz, 5755-5795MHz		
	802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz, 5775MHz		
Number of Channels	802.11a/n-20MHz: 25; 802.11n-40MHz: 12		
	802.11ac-80MHz: 6		
Data Rate	802.11a: 6 - 54Mbps		
	802.11n: up to 150Mbps		
	802.11ac-80MHz: up to 433.3MHz		
Channel Control	Auto		
Type of Modulation	802.11a/n/ac: OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM		
Antenna Type	PIFA Antenna		
USB to Type-C Cable	Shielded, 1m		
USB Docking Cable	Shielded, 1.5m, with one ferrite core boned.		
Power Adapter	MFR: SUNNY, M/N: SYS1561-1005		
Input: AC 100-240V, 50-60Hz			
	Output: 5V==2A		
DFS Function	☐ Master Slave (Without Radar Detection)		
TPC Function	■ <500mW not required $\square \ge 500$ mW employ a TPC		
Communication Mode	■ IP Based Systems □ Frame Based System □ Other System		

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Auden	RS35	PIFA Antenna	1.9dBi for 5.150-5.250 GHz
				3 0dBi for 5.250-5.350 GHz
				3.6dBi for 5.470-5.725 GHz
				2.7dBi For 5.725~5.825GHz



802.11a/n-20MHz Center Working Frequency of Each Channel:

	∂		
Channel Frequency	Channel Frequency	Channel Frequency	Channel Frequency
Channel 36: 5180 MHz	Channel 40: 5200 MHz	Channel 44: 5220 MHz	Channel 48: 5240 MHz
Channel 52: 5260 MHz	Channel 56: 5280 MHz	Channel 60: 5300 MHz	Channel 64: 5320 MHz
Channel 100: 5500 MHz	Channel 104: 5520 MHz	Channel 108: 5540 MHz	Channel 112: 5560 MHz
Channel 116: 5580 MHz	Channel 120: 5600 MHz	Channel 124: 5620 MHz	Channel 128: 5640 MHz
Channel 132: 5660 MHz	Channel 136: 5680 MHz	Channel 140: 5700 MHz	Channel 144: 5720 MHz
Channel 149: 5745 MHz	Channel 153: 5765 MHz	Channel 157: 5785 MHz	Channel 161: 5805 MHz
Channel 165: 5825 MHz			

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38:	5190 MHz	Channel 46:	5230 MHz	Channel 54:	5270 MHz	Channel 62:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz	Channel 142:	5710 MHz	Channel 151:	5755 MHz	Channel 159:	5795 MHz
802.11ac-80N	1Hz Center V	Vorking Freque	ncy of Each (Channel:			
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 42:	5210 MHz	Channel 58:	5290 MHz	Channel 106:	5530 MHz	Channel 122:	5610 MHz
Channel 138:	5690 MHz	Channel 155:	5775 MHz				

Test Mode



1.2. Standard Requirement

FCC Part 15.407:

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30dBm. A TPC mechanism is not required for systems with an E.I.R.P. of less than 500mW.

U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

1.3. UNII Device Description

(1) The EUT operates in the following DFS band:

- 1. 5250-5350 MHz
- 2. 5470-5725 MHz

(2) The maximum EIRP of the 5GHz equipment is 21.09dBm.

Below are the available 50 ohm antenna assemblies and their corresponding gains.

0dBi gain was used to set the -63 dBm threshold level (-64dBm +1 dB) during calibration of the

test setup.

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Auden	RS35	PIFA Antenna	1.9dBi for 5.150-5.250 GHz
				3 0dBi for 5.250-5.350 GHz
				3.6dBi for 5.470-5.725 GHz
				2.7dBi For 5.725~5.825GHz

(3) DFS operation description:

WLAN traffic is generated by streaming the video file "TestFile.mp2" from the Master device to the Slave device in full motion video mode using the media player with the V2.61 Codec package.

(4) This device does not exceed 27dBm eirp, so no transmit power control is implemented.

(5) The master device is an Access Point and FCC ID: MSQ-RTAXHP00.

1.4. Test Equipment

Dynamic Frequency Selection (DFS) / CTR

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY53470892	2019/09/25
Vector Signal Generator	Agilent	E4438C	MY49070137	2019/07/30

Instrument	Manufacturer	Type No.	Serial No
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZFRSC-123-S+	SN331000910
Notebook Pc	Нр	HSTNN-155C	CNU8476RVZ
Notebook Pc	Compaq	CPQ511VT5870Q4X320MIBN CN2Pa	CNU0060M23
8-WAY Power Divider	JFW	50PD-647-SMA	517518
8-WAY Power Divider	JFW	50PD-647-SMA	
RF Cable (Qty: 4)	GORE	C86	N/A
ATT (Qty: 2)	Mini-Circuits	15542	30912
ATT (Qty: 2)	Mini-Circuits	15542	30909
RF Cable	SUHNER	SUCOFLEX 104	309180/4
RF Cable	SUHNER	SUCOFLEX 106	3474516
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZFRSC-123-S+	SN331000910
Access Point	ASUS	RT-AX88U	JCITHP000036
Notebook PC	Dell	M65	DYTKN1S

Software	Manufacturer	Function					
Agilent Signal Studio for	A - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	Padar Signal Concretion Software					
Pulse Building V1.3.13.0	Agilent	Radar Signal Generation Software					
Agilent DFS_TEST	A 11 .						
V1.0.0.73	Agilent	Radar Signal Generation Software					

1.5. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

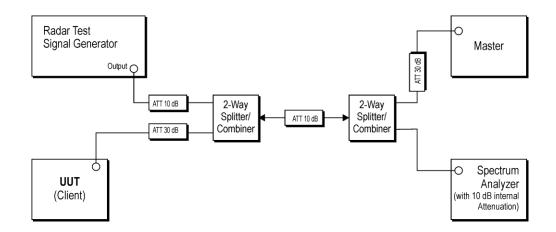
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

The measurement uncertainty is defined as \pm 1ms.



1.6. Test Setup



1.7. DFS Requirements Prior to Use of a Channel

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

1.8. DFS requirements during normal operation

Requirement	Operational Mode							
	Master	Client Without Radar	Client With Radar					
		Detection	Detection					
DFS Detection Threshold	Yes	Not required	Yes					
Channel Closing Transmission Time	Yes	Yes	Yes					
Channel Move Time	Yes	Yes	Yes					
U-NII Detection Bandwidth	Yes	Not required	Yes					

1.9. DFS Detection Thresholds

(1) Interference Threshold value, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)					
≥200 milliwatt	-64 dBm					
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm					
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm					
Note 1: This is the level at the input of the receiver a	ssuming 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 ,	massurement againment. This will ansure that 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.

(2) DFS Response requirement values

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

1.10. Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. 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.



(1) Short Pulse Radar Test Waveforms

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Type	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	$\left(\left(1 \right) \right)$	60%	30
		PRI values	$\left(\frac{1}{360}\right)$		
		randomly selected	Roundun		
		from the list of 23	(19.10 ⁶)		
		PRI values in	$\left(\overline{\mathrm{PRI}_{\mu \mathrm{sec}}} \right)$		
		Table 5a	((µsec /)		
		Test B: 15 unique			
		PRI values			
		randomly selected			
		within the range			
		of 518-3066			
		μ sec, with a			
		minimum			
		increment of 1			
		μ sec,			
		excluding PRI			
		values			
		selected in			
		Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types	1-4)		80%	120
Note 1: Sho	ort Pulse Ra	dar Type 0 shoul	d be used for the d	etection band	width
test, char	nnel move t	ime, 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 905462 D02 UNII DFS Compliance Procedures v01 Page 10 generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.



(2) Long Pulse Radar Test Signal

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the long pulse radar test signal. If more than 30 waveforms are used for the long pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

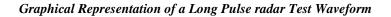
- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst_Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5) Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with radar frequency of 5310 MHz and a 20 MHz chirped signal, the chirp starts at 5300 MHz and ends at 5320 MHz.
- 6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length (12,000,000 / Burst_Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst_Count) (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

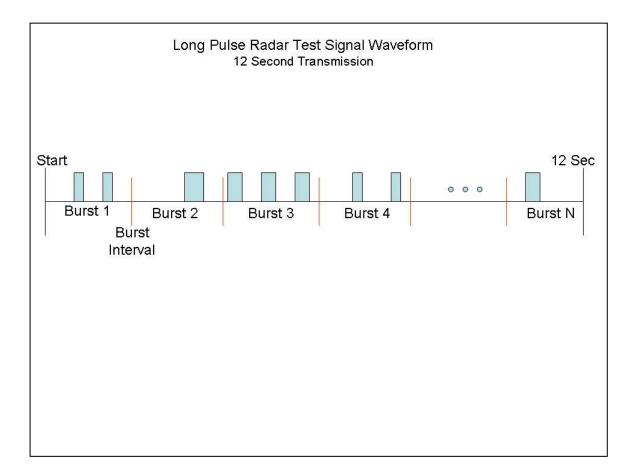
A representative example of a Long Pulse radar test waveform:

- 1) The total test signal length is 12 seconds.
- 2) 8 Bursts are randomly generated for the Burst_Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3-5.



7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).







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

(3) Frequency Hopping Radar Test Signal

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected₁ from the hopping sequence defined by the following algorithm:

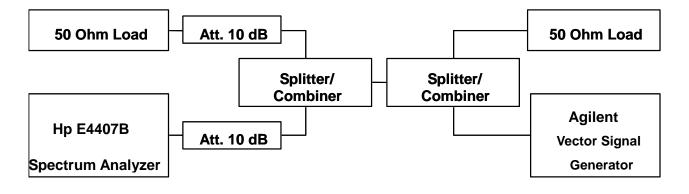
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

1.11. Radar Waveform Calibration

The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 500hm terminal from master and client device and 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 utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz and 3 MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -64dBm due to the interference threshold level is not required.

Conducted Calibration Setup





1.12. Radar Waveform Calibration Result

	rum Analyzer - Sw																				
Center F	RF 50 Ω req 5.53000	AC 00000	GHz PNO: IFGair	Fast High	• • •	Trig	S≣ Del :Vid :en:0	ay- eo			A	vg	Туре	GN AL O g-F		11:3	TRAC	M Jun 22, 2 DE 1 2 3 4 PE WWWW ET <mark>P N N N</mark>	456	Freq	uency
10 dB/div	Ref Offset -3 Ref -51.50															Mk	r1 1 -64.	4.41 I 09 dE	ms 3m	A	uto Tune
-61.5			1															TRIC	€LVL		n ter Freq 10000 GHz
-71.5																					tart Freq 10000 GHz
-91.5																					top Freq 00000 GHz
	ada aya da da ahada aya da wala mangana aya da a			MA Press La gradi	nen ni		, a di <mark>da da</mark>	//// **/}*-	la da La cala	n (lat) <mark>Al manifi</mark>	N <mark>ala I</mark> Tala I	n Tapa Tapa			1.00		1.1.1	in a falsaíth fi		3.00 <u>Auto</u>	CF Step 0000 MHz Man
-132																				Fre	e q Offset 0 Hz
	530000000 (GHz		VB		0.14										0.42	8	ipan 0	Hz		
Res BW 3	DU WIRZ			VBI	м 3.	UIV	IHZ								p 5		ms (8001 p	πs)		

Mode 1: Transmit - 802.11ac-80MHz Radar Type 0 Calibration Plot (5530MHz)



1.13. Slave Data Traffic Plot Result

Agilent Spectrum Analyzer -							
	DΩ AC	SE	NSE:INT	ALIGNAUTO	11:44:52 AM Jun 2 TRACE 12		Frequency
Center Freq 5.530	PNO:	Fast ↔ Trig:Fre	e Run	g Type: Log-Pwr	TYPE WW	3456 MWWW NNNN	
	IFGain	High #Atten: 0	dB				Auto Tune
Ref Offset 10 dB/div Ref -51.5				Δ	Mkr3 9.864 0.4	5 dB	Auto Func
-61.5							Center Fred
-71.5			1 <u>∆2</u> <mark>3∆2</mark> —				5.530000000 GHz
-81.5		- m - A f		<mark>m in</mark>			
-91.5							Start Freq
-102			anisation .				5.53000000 GHz
-112							
-132							Stop Free
-142							5.530000000 GHz
Center 5.53000000) GHz				Span	0 Hz	CF Step
Res BW 3.0 MHz		#VBW 3.0 MHz	2	Sweep 1	00.3 ms (800	1 pts)	3.000000 MHz
MKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VAL	UE 🔺	<u>Auto</u> Man
1 Δ2 1 t (Δ) 2 F 1 t	2.745 r 45.43 r	ns -78.01 d	Bm				
3 Δ2 1 t (Δ) 4	9.864 1	ms (Δ) 0.45	dB				Freq Offset 0 Hz
5						=	011
7 8							
9							
11						>	
MSG					;		

Mode 1: Transmit - 802.11ac-80MHz Plot of Slave Traffic at 5530MHz

2. In-Service Monitoring for Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

2.1. Test Procedure

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

Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period.. The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Master Device will associate with the UUT (Client) at 5300 MHz and 5500MHz.

Stream the MPEG test file from the Client (TX) Device to the Master (RX) Device on the selected Channel for the entire period of the test.

At time T_0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at

-63dBm.

Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing

Transmission Time results to the limits defined in the DFS Response requirement values table.

Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.

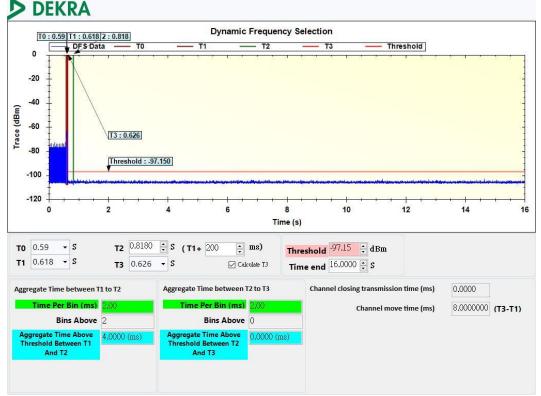
2.2. Test Requirement

Parameter	Value
Channel Move Time	10 Seconds
Channel Closing Transmission	200 milliseconds + an aggregate of 60
Time	milliseconds over remaining 10 seconds period
Non-Occupancy Period	Minimum 30 minutes

2.3. Test Result of Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

Product	:	Mobile Computer
Test Item	:	Channel Move Time Test
Radar Type	:	Type 0
Test Mode	:	Mode 1: Transmit - 802.11ac-80MHz

Channel Move Time for Radar Test Type 0 at 5530MHz



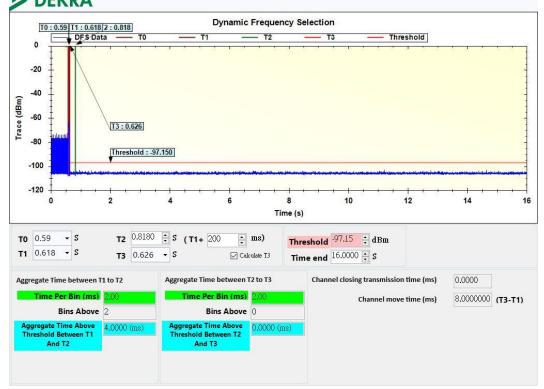
Test Item	Test Result (Sec)	Limit (Sec)
Channel Move Time	0.008	10

The results showed that after radar signal injected the channel move time was less than 10 seconds.



Product	:	Mobile Computer
Test Item	:	Channel Closing Transmission Time Test
Radar Type	:	Type 0
Test Mode	:	Mode 1: Transmit - 802.11ac-80MHz

Channel Closing Transmission Time for Radar Test Type 0 at 5530MHz



Test Item	Test Result (ms)	Limit (ms)
Channel Closing Transmission	0	200 milliseconds + approx. 60
		milliseconds over remaining 10 seconds
		period

*Note: The test result is "bin number X time per bin (600 ms / 8000)"

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.



Product	:	Mobile Computer
Test Item		Non-Occupancy Period
Radar Type	:	Type 0
Test Mode	:	Mode 1: Transmit - 802.11ac-80MHz

Non-Occupancy Period at 5530MHz

	um Analyzer - Swept SA							
Center Fr	RF 50 Ω AC) GHz	SENSE:II	Avg Ty	ALIGNAUTO	01:29:10 PM Jun 2 TRACE 12	3456	Frequency
		PNO: Fast ↔ IFGain:High	Trig: Free Ru #Atten: 0 dB	n		TYPE W	INNNN	
	Ref Offset -31.5 dB				1	∆Mkr1 1.80	0 ks	Auto Tune
10 dB/div	Ref -51.50 dBm					-40.5	0 dB	
Log -61.5								Center Freq
-71.5	2							5.53000000 GHz
-81.5								
-91.5							1Δ2	Start Freq
-102		and a man part of the base of the base of the street of		an Ingenetikan and a statistican and a	a para partani para bang dan Dalayan			5.53000000 GHz
-112								
-122								Stop Freq
-132								5.53000000 GHz
-142								
Center 5.5	530000000 GHz					Span	0 Hz	CF Step
Res BW 3	.0 MHz	#VBV	V 3.0 MHz		Sweep 2	2.020 ks (800		3.000000 MHz
MKR MODE TR			Y	FUNCTION	FUNCTION WIDTH	FUNCTION VAL	UE 🔼	<u>Auto</u> Man
2 F 1		1.800 ks (Δ) 104.5 s	-40.50 dB -63.62 dBm					
3 4								Freq Offset 0 Hz
5								0112
7 8								
9								
10							~	
< MSG					STATUS			
					NO STATUS			

Test Item	Test Result (Minutes)	Limit (Minutes)
Non-Occupancy Period	>30	\geq 30

No EUT transmissions were observed on the test channel during 30 minutes observation time.