



FCC Radio Test Report

FCC ID: HFSQTA-TP00126A

Report No. : BTL-FCCP-5-2006T132 Equipment : Notebook Computer

Model Name : TP00126A, Lenovo ThinkPad C13 Yoga Gen 1 Chromebook********

(x=0~9, A~z, "-" or blank)

Brand Name : Lenovo

Applicant: Quanta Computer Inc.

Address : No. 188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan

Manufacturer: Quanta Computer Inc.

Address : No. 188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan

Radio Function : RLAN 5 GHz (U-NII 2A, U-NII 2C)

FCC Rule Part(s) : FCC Part 15, Subpart E (15.407) / FCC 06-96

Measurement : FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Procedure(s) FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules

v01r02

Date of Receipt : 2020/6/24

Date of Test : 2020/6/24 ~ 2020/7/30

Issued Date : 2020/9/14

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

Prepared by

Peter Chen, Engineer

Approved by : Scott Hsu , Manager

BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com

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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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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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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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	2020/8/11
R01	Revised typo.	2020/8/28
R02	Revised report to address TCB's comments.	2020/9/14

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1 EUT INFORMATION

1.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT

	Table 1. Specification of EU1
Equipment	Notebook Computer
Model Name	TP00126A, Lenovo ThinkPad C13 Yoga Gen 1 Chromebook********
woder name	(x=0~9, A~z, "-" or blank)
Brand Name	Lenovo
Model Difference	Differ in Market proposal.
Power Source	DC voltage supplied from AC/DC Adapter.
Power Rating	20Vdc 3.25A/20Vdc 2.25A / 15Vdc 3.0A / 9Vdc 2.0A / 5Vdc 2.0A
	1. I/P: 100-240V~1.3A 50-60Hz
Power Adapter Power	O/P: 20Vdc 2.25A / 15Vdc 3A / 9Vdc 2A / 5Vdc 2A
Rating	2. I/O: 100-240V~1.8A 50-60Hz
	O/P: 20Vdc 3.25A 65.0W / 15Vdc 3.0A / 9Vdc 2.0A / 5Vdc 2.0A 10.0W
Bower Adenter	1. Chicony / ADLX45YCC3F
Power Adapter	2. Liteon / ADLX65YLC3D
Operational Mode	Slave
Frequency Range	UNII-2A: 5250 MHz to 5350 MHz
Frequency Range	UNII-2C: 5470 MHz to 5724 MHz
Operating Frequency	UNII-2A: 5260 MHz to 5320 MHz
Operating Frequency	UNII-2C: 5500 MHz to 5700 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 mo manual.	re detailed features description, please refer to the manufacturer's specifications or the user's

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(2) Channel List:

(3) IEEE 802.11a (4) IEEE 802.11n (HT20) (5) IEEE 802.11ac (VHT20) (6) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
UNII	-2A	UNII-2A		UNII-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 802.11	IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		ac (VHT80) 1ax (HE80)
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				



(7) Table for Filed Antenna:

Tablet Mode

Ant.	Brand	Model	Туре	Frequency Range (MHz)	Gain (dBi)
				2400-2500	-2.6
Main	ICT	SA30Z18922	PIFA Antenna	5150-5350	-0.9
IVIAIII				5740-5725	-2.5
				5725-5875	-2.5
Aux	ICT	SA30Z18923	PIFA Antenna	2400-2500	-1.1
				5150-5350	-2.6
				5740-5725	-3.6
				5725-5875	-5.7

Ant.	Brand	Model	Туре	Frequency Range (MHz)	Gain (dBi)
		SA30Z18927		2400-2500	-0.39
Main	AWAN		PIFA Antenna	5150-5350	0.21
Iviain				5740-5725	-1.28
				5725-5875	-0.64
				2400-2500	-1.48
Aux	AWAN	SA30Z18928	PIFA Antenna	5150-5350	-0.25
				5740-5725	-1.22
				5725-5875	-1.22

NB Mode

Ant.	Brand	Model	Туре	Frequency Range (MHz)	Gain (dBi)
				2400-2500	-2.3
Main	ICT	SA30Z18922	PIFA Antenna	5150-5350	1.6
Iviairi				5740-5725	1.9
				5725-5875	1.9
	ICT	SA30Z18923	PIFA Antenna	2400-2500	-2.3
Aux				5150-5350	1.1
				5740-5725	1.2
				5725-5875	2.0

Ant.	Brand	Model	Туре	Frequency Range (MHz)	Gain (dBi)
		SA30Z18927		2400-2500	-2.11
Main	AWAN		PIFA Antenna	5150-5350	1.94
Iviairi				5740-5725	1.61
				5725-5875	1.47
	AWAN	SA30Z18928	PIFA Antenna	2400-2500	-1.73
Aux				5150-5350	1.78
				5740-5725	0.71
				5725-5875	0.52



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1.2 EIRP POWER

Table 2: The Conducted Output Power and EIRP List

Test Mode	UNII-2A

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5260 to 5320	13.49	1.94	15.43	34.914	NOTE (1)

Test Mode	UNII-2C

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5500 to 5700	13.49	1.90	15.39	34.594	NOTE (1)

NOTE:

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

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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	✓	Not required	✓			
DFS Detection Threshold	✓	Not required	✓			
Channel Availability Check Time	✓	Not required	Not required			
Uniform Spreading	✓	Not required	Not required			
U-NII Detection Bandwidth	✓	Not required	✓			

Table 4: Applicability of DFS requirements during normal operation.

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

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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	04.15		
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.

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Table 6: 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.

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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.

Table 7: 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 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	Roundup $ \begin{cases} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}}\right) \end{cases} $	60%	30
2	1-5	selected in Test A 150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
	<u> </u>	l	12-10		
	(Radar Types		and for the detection he	80%	120

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.

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Table 8: 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.

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



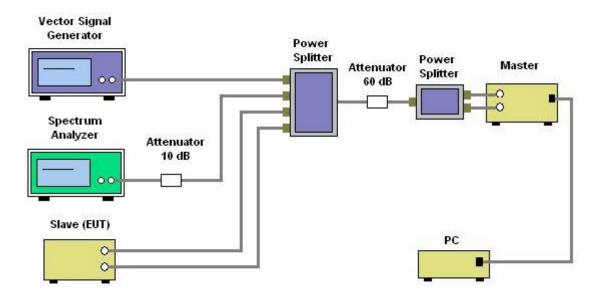
3 EMC EMISSION TEST

3.1 **DFS MEASUREMENT SYSTEM**

Test Precedure

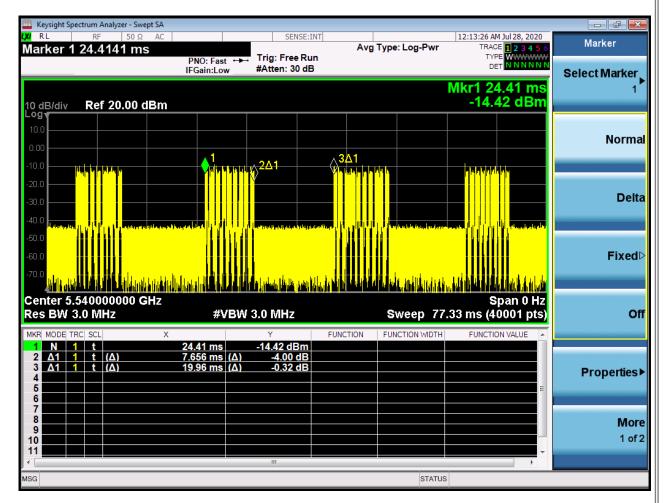
- 1. Master device and client device are set up by conduction method as the following configuration.
- 2. The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 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





Channel Loading



	Test Band	ON	Numbers	On Time	Period	Channel Loading	Required
		(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ratio (%)	Ratio (%)
ĺ	5.470 GHz to 5.725 GHz	7.6560	1	7.6560	19.96	38.36%	≥ 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.

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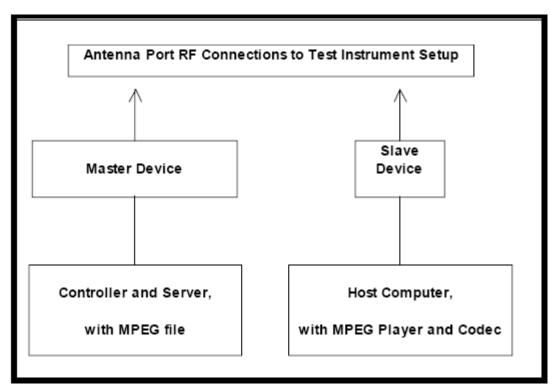
3.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

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 analyer 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.



3.3 DEVIATION FROM TEST STANDARD

No deviation.



4 LIST OF MEASURING EQUIPMENTS

	Dynamic Frequency Selection (DFS)								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until			
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	2020/6/11	2021/6/10			
2	MXG Vector Signal Generator	Agilent	N5182B	MY51350711	2020/3/25	2021/3/24			
3	10dB Attenuators	Mini-Cicuits	VAT-10+	N/A	2020/5/14	2021/5/13			
4	20dB Attenuators	Mini-Cicuits	VAT-20+	N/A	2020/5/14	2021/5/13			
5	30dB Attenuators	Mini-Cicuits	VAT-30+	N/A	2020/5/14	2021/5/13			
6	POWER SPLITTER	Mini-Circuits	ZFRSC-183-S+	N/A	2020/5/14	2021/5/13			
7	POWER SPLITTER	Mini-Cicuits	ZFRSC-123-S+	N/A	2020/5/14	2021/5/13			

Master Device							
Item	Kind of Equipment	Manufacturer	Type No.	FCC ID	IC	Note	
1	AP	Check Point	L-71W	YHI-NW121	9715A-NW121	-	

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

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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
45.407	Channel Move Time	11n (HT20) 5540 MHz	Applicable	Pass
15.407		11n (HT40) 5550 MHz		
45 407	Channel Closing	11n (HT20) 5540 MHz	Annlinable	Pass
15.407	Transmission Time	11n (HT40) 5550 MHz	Applicable	
		11n (HT20) 5540 MHz		
15.407	Non- Occupancy Period	11n (HT40) 5550 MHz	Applicable	Pass
15.407	Uniform Spreading	-	Not Applicable	N/A
15.407	U-NII Detection Bandwidth	-	Not Applicable	N/A

NOTE:

1. The report format version is TP.1.1.1.

5.2 EST MODE: DEVICE OPERATING IN MASTER MODE.

The EUT is slave equipment, it need a master device when testing.

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

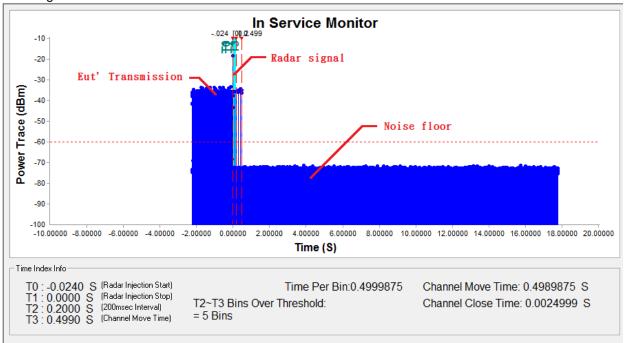
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5.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

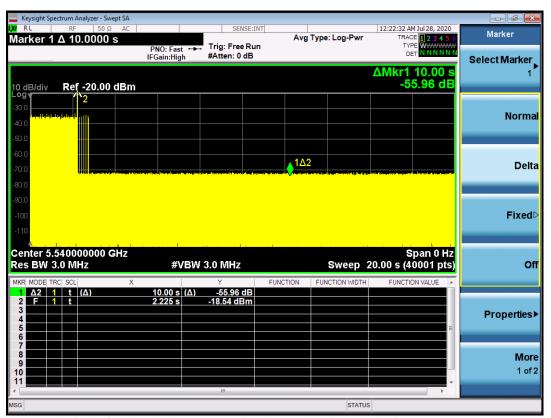
TX (11ac (VHT20) Mode)

Radar signal 0



Note: To 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.

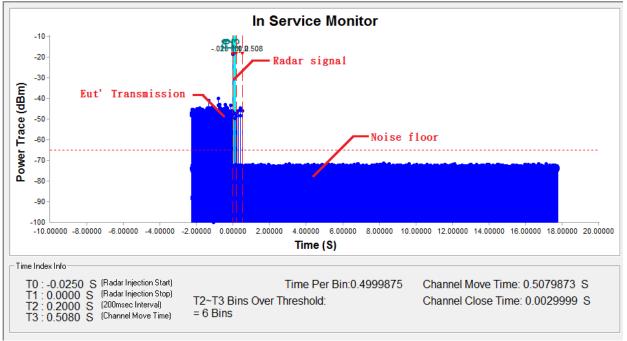


Note: An expanded plot for the device vacates the channel in the required 500ms



TX (11ac (VHT40) 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.

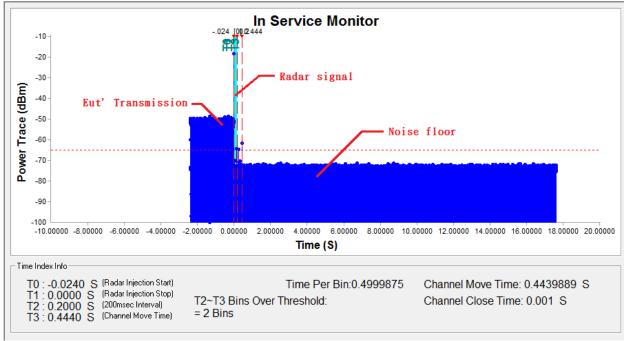


Note: An expanded plot for the device vacates the channel in the required 500ms



TX (11ac (VHT80) 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



11ac (VHT20) Mode					
Item	Measured Value(s)	Limit(s)			
Channel Move Time	0.4989875	10			
	0.0024999	200 milliseconds + an aggregate of			
Channel Close Time		60 milliseconds over remaining 10			
		second period			

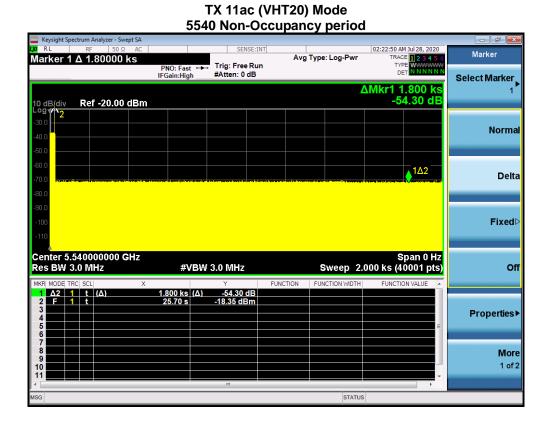
11ac (VHT40) Mode				
Item	Measured Value(s)	Limit(s)		
Channel Move Time	0.5079873	10		
		200 milliseconds + an aggregate of 60		
Channel Close Time	0.0029999	milliseconds over remaining 10 second		
		period		

11ac (VHT80) Mode					
Item	Measured Value(s)	Limit(s)			
Channel Move Time	0.4439889	10			
		200 milliseconds + an aggregate of 60			
Channel Close Time	0.001	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.

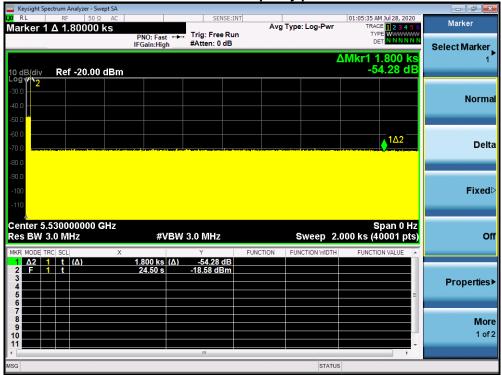




TX 11ac (VHT40) Mode 5550 Non-Occupancy period



TX 11ac (VHT80) Mode 5530 Non-Occupancy period







EUT TEST PHOTO Please refer to document Appendix No.: TP-2006T132-FCCP-1 (APPENDIX-TEST PHOTOS). **EUT PHOTOS** Please refer to document Appendix No.: EP-2006T132-1 (APPENDIX-EUT PHOTOS). **End of Test Report**