



TEST REPORT

Applicant: INFINIX MOBILITY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

19-25 SHAN MEI STREET FOTAN NT HONG KONG

Product Name: Mobile Phone

FCC ID: 2AIZN-YYS-X6725

47 CFR Part 15, Subpart E(15.407)

Standard(s): FCC KDB 905462 D02 UNII DFS Compliance Procedures New

Rules v02

Report Number: 2502R24398E-RF-00F

Report Date: 2025/4/20

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502R24398E-RF-00F	Original Report	2025/4/20

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1 Product Description for Equ	apment under Test (EOT)
EUT Name:	Mobile Phone
EUT Model:	X6725
Operation Frequency:	5250-5350MHz: 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) 5470-5725MHz: 5500-5700 MHz (802.11a/n ht20/ac vht20) 5510-5670 MHz(802.11n ht40/vht40) 5530-5690MHz(802.11ac vht80)
Maximum Average Output Power (Conducted):	8.07dBm(5250-5350MHz) 7.89dBm(5470-5725MHz)
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	3.85Vdc from battery or 5Vdc from adapter
Serial Number:	2Z9G-7
EUT Received Date:	2025/3/12
EUT Received Status:	Good

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1.2 Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Earphone	INFINIX MOBILITY LIMITED	Unknown	Unknown
Adapter	INFINIX MOBILITY LIMITED	U100XSA	Input: 100-240Vac 50/60Hz 0.3A Output: 5.0Vdc 2.0A

1.3 Antenna Information Detail ▲:

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain	
Etheta Communication			5.25~5.35 GHz	-2.31dBi	
Technology (ShenZhen) Co.Ltd	FPC	50	5.47~5.725 GHz	-2.31dBi	
The design of compliance with §15.203:					

Unit uses a permanently attached antenna.
Unit uses a unique coupling to the intentional radiator.

Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.4 Equipment Modifications

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

2. DESCRIPTION OF TEST CONFIGURATION

2.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	Tfgen
WLAN traffic is generated by software "Tfgen"	', software is used by IP and Frame based systems for

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WLAN traffic is generated by software "Tfgen", software is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Data pakes streamed from the Access Point to the Client using the software "Tfgen".

2.2 Support Equipment List and Details

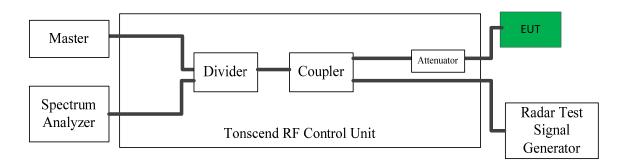
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T430	AA887-03
Tenda	Router	RX12Pro	ED331010215000033

Note: The mater Wireless Router FCC ID: V7TRX12P2.

2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
/	/	/	/	/	/

2.4 Block Diagram of Test Setup



2.5 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

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The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 829273, the FCC Designation No.: CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

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3. SUMMARY OF TEST RESULTS

The following result table represents the list of measurements required under the KDB: $905462\ D02\ UNII\ DFS\ Compliance\ Procedures\ New\ Rules\ v02$

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Items	Description of Test	Result
Detection Bandwidth	UNII Detection Bandwidth	Not applicable
D. C	Initial Channel Availability Check Time (CAC)	Not applicable
Performance Requirements Check	Radar Burst at the Beginning of the CAC	Not applicable
Check	Radar Burst at the End of the CAC	Not applicable
	Channel Move Time	Compliant
In-Service Monitoring	Channel Closing Transmission Time	Compliant
	Non-Occupancy Period	Compliant
Radar Detection	Statistical Performance Check	Not applicable

Note:

Not applicable: The EUT is a client unit without radar detection.

4. REQUIREMENTS AND TEST PROCEDURES

4.1 DFS Requirement

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

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Requirement	Operatio	Operational 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	
U-NII Detection Bandwidth	Yes	Not required	Yes	

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	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	All BW modes must be	Not required
Statistical Performance Check	tested	
Channel Move Time and Channel	Test using widest BW mode	Test using the widest
Closing Transmission Time	available	BW mode available
		for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar
Detection

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Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral	-64 dBm
density requirement	

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.

Table 4: DFS Response Requirement Values

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

Table 5 - Short Pulse Radar Test Waveforms

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
1 1	Width		runibel of Fulses		Number
Type		(µsec)		Percentage of	
	(µsec)			Successful	of
				Detection	Trials
0	1	1428	18	See Note 1	See Note
					1
1	1	Test A: 15 unique	((1))	60%	30
		PRI values	$\left(\frac{360}{360}\right)$.		
		randomly selected	Roundup		
		from the list of 23	19·10 ⁶		
		PRI values in	$\left(\left \overline{\text{PRI}_{\mu \text{sec}}} \right \right)$		
		Table 5a	(\frac{frac}{μsec})]		
		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	22.22	400/	
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: 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.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 usec is selected, the number of pulses would be Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Roundup} \left\{ 17.2 \right\} = 18.$

Table 5a - Pulse Repetition Intervals Values for Test A

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Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)		
1	1930.5	518		
2	1858.7	538		
3	1792.1	558		
4	1730.1	578		
5	1672.2	598		
6	1618.1	618		
7	1567.4	638		
8	1519.8	658		
9	1474.9	678		
10	1432.7	698		
11	1392.8	718		
12	1355	738		
13	1319.3	758		
14	1285.3	778		
15	1253.1	798		
16	1222.5	818		
17	1193.3	838		
18	1165.6	858		
19	1139	878		
20	1113.6	898		
21	1089.3	918		
22	1066.1	938		
23	326.2	3066		

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection			
1	35	29	82.9%			
2	30	18	60%			
3	30	27	90%			
4	50	44	88%			
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%						

Table 6 - Long Pulse Radar Test Waveform

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	anote o Long a more attential a con in a retornal									
Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum			
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of			
	(µsec)	(MHz)		per Burst		Successful	Trials			
						Detection				
5	50-100	5-20	1000-	1-3	8-20	80%	30			
			2000							

Table 7 - Frequency Hopping Radar Test Waveform

	Zuste / Treductey Zzopping Zundur Zest (Vit versting										
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum				
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of				
	(µsec)		Hop	(kHz)	Length	Successful	Trials				
					(msec)	Detection					
6	1	333	9	0.333	300	70%	30				

4.2 Test Procedure

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the diction and Channel move.

5. Test DATA AND RESULTS

Serial Number:	2Z9G-7	Test Date:	2025/3/22
Test Site:	RF	Test Mode:	Traffic
Tester:	Harper Shen	Test Result:	Pass

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Environmental Conditions:							
Temperature: $(^{\circ}\mathbb{C})$	Temperature: Relative Humidity:		50	ATM Pressure: (kPa	101.6		

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Keysight	MXA Signal Analyzer	N9020A	MY48490106	2024/9/5	2025/9/4
Agilent	MXG Vector Signal Generator	N5182A	MY49060274	2024/9/5	2025/9/4
Tonscend	RF Control Unit	JS0806-2	19G8060171	2024/9/5	2025/9/4
Eastsheep	Stsheep Coaxial 2W-Attenuator 60		F-08-EM509	2024/6/7	2025/6/6
Eastsheep	Eastsheep Coaxial 2W-SMA Attenuator 6G-10c		F-08-EM510	2024/6/7	2025/6/6
HUBER+SUHNER	Coaxial Attenuator	6610_SMA-50-1	0064	2024/6/13	2025/6/12
HUBER+SUHNER	Coaxial Attenuator	6610_SMA-50-1	0069	2024/6/13	2025/6/12

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

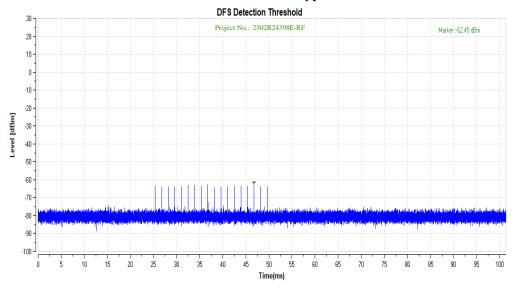
5.1 Radar Waveform Calibration

Test	Frequency	Radar Type	Result
Bandwidth	[MHz]		[dBm]
80M	5290	Type0	-62.45

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Plots of Radar Waveforms

5290 MHz: Radar Type 0



5.2 Channel Move Time And Channel Closing Transmission Time

5.2.1 Test Procedure

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.

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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.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N*Dwell Time

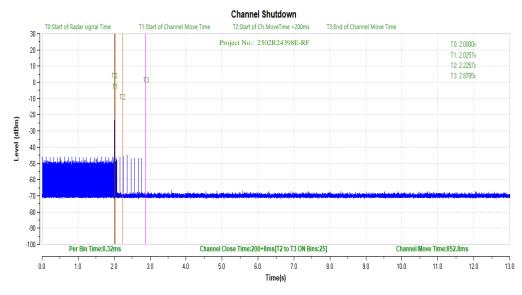
N is the number of spectrum analyzer bins showing a device transmission Dwell Time is the dwell time per bin (i.e. Dwell Time = S/B, S is the sweep time and B is the number of bin, i.e. 8192)

5.2.2 Test Results

Test Mode	Frequency [MHz]	CCTT [ms]	Limit [ms]	CMT [ms]	Limit [ms]	Verdict
11AC80SISO	5290	200+8	200+60	852.8	10000	PASS

Please refer to the following tables and plots.

5290 MHz



5.3 Non-occupancy Period

5.3.1 Test Procedure

Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

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5.3.2 Test Result

Test Mode	Frequency [MHz]	Result	Limit [s]	Verdict
11AC80SISO	5290	see test graph	≥1800	PASS

Please refer to the following plots.

5290 MHz

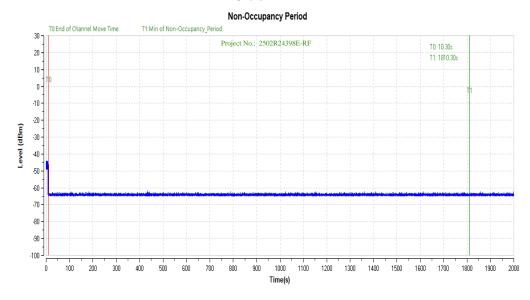


EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502R24398E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502R24398E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502R24398E-RF-00F-TSP TEST SETUP PHOTOGRAPHS.

***** END OF REPORT *****

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