FCC RADIO TEST REPORT

Applicant : Micro-Star Int'l Co.,Ltd.

Address No.69, Lide St., Zhonghe Dist. New Taipei City 235

Taiwan

Equipment : WiFi USB Adapter

Model No. : GUAXE54

Trade Name: msi

FCC ID : I4L-GUAXE54

I HEREBY CERTIFY THAT:

The sample was received on Jun. 16, 2023 and the testing was completed on Jul. 07, 2023 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Kevin Liang / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





Report No.: 23060172-TRFCC03

CERPASS TECHNOLOGY CORP.

T-FD-501-0 Ver 1.5

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History of this test report

Report No.	Issued Date	Description
23060172-TRFCC03	Sep. 11, 2023	Original

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1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033

KDB 905462

FCC Rule	Description of Test	Result
15.407	Dynamic Frequency Selection	PASS

^{*}The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

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2. Test Configuration of Equipment under Test

2.1. Feature of Equipment

	0.4011-:000.445/-/-/Timb : 0.400.0400.51411
Operation Frequency Range	2.4GHz:802.11b/g/n(Turbo QAM)/ax: 2400-2483.5MHz 5GHz:802.11a/n/ac/ax: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz 6GHz:802.11ax: 6105MHz~6425MHz, 6425MHz~6525MHz
	6525MHz~6875MHz, 6875MHz~7125MHz
Center Frequency Range	2.4GHz:802.11b/g/n(Turbo QAM)/ax: 2412MHz-2462MHz 5GHz:802.11a/n/ac/ax: 5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz
	6GHz: 802.11ax: 6115MHz~6415MHz, 6435MHz~6515MHz 6535MHz~6855MHz,6875MHz~7115MHz
	2.4GHz:
	802.11b: CCK, DQPSK, DBPSK
	802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(Turbo QAM)
	802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Type	5GHz:
	802.11a/n: BPSK, QPSK, 16QAM, 64QAM
	802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
	802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	6GHz: 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	DSSS, OFDM, OFDMA
- Weddidien reemielegy	2.4GHz:
	802.11b: 1, 2, 5.5, 11Mbps
	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11n: MCS0 – MCS15, HT20/40
	MCS0 - MCS9, VHT20/40(Turbo QAM)
	802.11ax: MCS0 – MCS11, HE20/40
Data Rate	5GHz:
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11n: MCS0 – MCS15, HT20/40
	802.11ac: MCS0 – MCS9, VHT20/40/80/160
	802.11ax: MCS0 – MCS11,HE20/40/80/160
	6GHz: 802.11ax: MCS0 – MCS11, HE20/40/80/160
Antenna Type	PCB Antenna
Antenna Type	2400-2490MHz: ANT A: 1.40 dBi, ANT B: 1.70 dBi
	5150-5200MHz: ANT A: 1.40 dBi, ANT B: 1.70 dBi
	5300-5400MHz: ANT A: 2.90 dBi, ANT B: 2.80 dBi
	5500-5700MHz: ANT A: 2.40 dBi, ANT B: 2.10 dBi
Antenna Gain	5700-5850MHz: ANT A: 1.20 dBi, ANT B: 1.50 dBi
	6100~6400MHz: ANT A: 3.30 dBi, ANT B: 3.20 dBi
	6400~6500MHz: ANT A: 3.30 dBi, ANT B: 3.30 dBi
	6500~6800MHz: ANT A: 3.90 dBi, ANT B: 3.40 dBi
HOR	6900~7125MHz: ANT A: 4.00 dBi, ANT B: 3.50 dBi
USB cradle	Brand: msi, Model: GUAXE54C
Firmware Number	5001.19.105.0
Serial Number	B2350205852

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- 1. WLAN 2.4G 802.11n Support TurboQAM.
- 2. EUT support TPC Function.
- 3. EUT support Client Mode without radar detection.
- 4. For more details, please refer to the User's manual of the EUT.

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2.2. Description of Test System

	DFS				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type	
Notebook	Lenovo	S2292L	N/A	Adapter / 1.8m / NS	
Notebook	Lenovo	S2292L	N/A	Adapter / 1.8m / NS	
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A	
AP	NETGEAR	RAX80	N/A	Adapter / 1.5m / NS	

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2.3. General Information of Test

	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848,			
	Taiwan (R.O.C.)			
	Tel: +8	Tel: +886-3-3226-888		
	Fax: +886-3-3226-881			
	FCC	TW1439, TW1079		
	IC	4934E-1, 4934E-2		
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz			
Test Distance	t Distance The test distance of radiated emission from antenna to EUT is 3			

Test Item	Test Site	Test period	Environmental Conditions	Tested By
DFS	RFDFS01-NK	2023/07/07	26.4°C / 41%	Dian Chen

2.4. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Item	Uncertainty
Channel Move Time	±5.6%
Channel Closing Transmission Time	±7.4%
Threshold	±2.5dB

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3. Test Equipment and Ancillaries Used for Tests

Test Item	DFS						
Test Site	RFDFS01-NK	FDFS01-NK					
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date		
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100291	2022/10/26	2023/10/25		
MXG-B RF Vector Signal Generator + Frequency Extender	KEYSIGHT	N5182B+ N5182BX07	MY53051383+ MY59362519	2023/02/22	2024/02/21		
N7607C Signal Studio	KEYSIGHT	v1.5.5.0	NA	NA	NA		
InServiceMonitorUtility	Theda	v10.0.0.0	NA	NA	NA		

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4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2. Antenna Construction and Directional Gain

Antenna Type	PCB Antenna			
Antenna Gain	5300-5400MHz: ANT A: 2.90 dBi, ANT B: 2.80 dBi 5500-5700MHz: ANT A: 2.40 dBi, ANT B: 2.10 dBi			

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5. Dynamic Frequency Selection

5.1. 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 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Table 6: Applicability of DFS Requirements Prior to Use a Channel

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

Table 7: Applicability of DFS Requirements during Normal Operation

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

Additional requirements for devices with multiple bandwidth modes	Master 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 (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.

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5.2. Test Limits and Radar Signal Parameters

Detection Threshold Values

Table 8: 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	OZ dBIII
EIRP < 200 milliwatt that do not meet the	-64 dBm
power spectral density requirement	-04 ubili

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 9: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
Charmer 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.
LL NIII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission
U-NII Detection Bandwidth	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 acilitate 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 10: Short Pulse Radar Test Waveforms

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Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of 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 518-3066µ sec, with a minimum increment of 1µ sec, excluding PRI values selected in Test A	Roundup $ \begin{bmatrix} \frac{1}{360} \\ \frac{19 \cdot 10^6}{PRI_{\mu \text{ sec}}} \end{bmatrix} $	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
		regate (Radar Types 1-	-	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.

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Table 11: Long Pulse Radar Test Waveform

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

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

- a) the Channel center frequency
- b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth
- c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case

2. The center frequency of the signal generator for each trial is calculated by:

FL+(0.4*Chirp Width [in MHz])

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case

3. The center frequency of the signal generator for each trial is calculated by:

FL-(0.4*Chirp Width [in MHz])

Table 12: Frequency Hopping Radar Test Waveform

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

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5.3. Test Setup

Setup for Client with injection at the Master

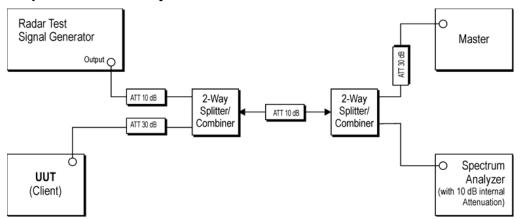


Figure 2: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master

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5.4. DFS Detection Threshold

DFS Detection Threshold is the level used by the DFS mechanism to detect radar interference.

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5.4.1. Test Limit

Limits Clause 4.7.2.1.2

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

MAXIMUM TRANSMIT POWER	VALUE (SEE Note 1 and 2)
≥ 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 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

	Band: 5300-5400MHz 802.11a: 16.40dBm 802.11ax HE20: 16.43dBm 802.11ax HE40: 16.41dBm
Max. output power	802.11ax HE80: 16.00dBm Band: 5500-5700MHz 802.11a: 16.55dBm 802.11ax HE20: 16.49dBm
	802.11ax HE40: 16.88dBm 802.11ax HE80: 16.68dBm
Antenna gain (Max)	5300-5400MHz: ANT A: 2.90 dBi, ANT B: 2.80 dBi 5500-5700MHz: ANT A: 2.40 dBi, ANT B: 2.10 dBi

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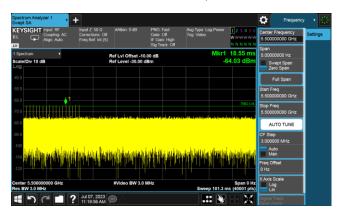
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5.4.2. Test Result of DFS Detection Threshold

EIRP > 200 milliwatt , was used to set the -64dBm threshold level during calibration of the test setup.

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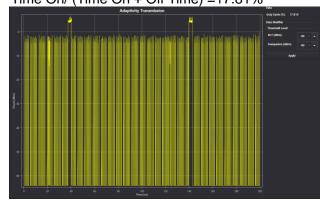
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5.5. Channel Loading

A link is established between the AP. Use N7607C Signal Studio ver. v1.5.5.0 & InServiceMonitorUtility ver. v10.0.0.0 Software to simulate data transfer is streamed to generate WLAN traffic.

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type

Modulation Type:802.11ax HE160 Time On/ (Time On + Off Time) =17.81%



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5.6. In-Service Monitoring

The In-Service Monitoring is defined as the process by which an RLAN monitors the Operating Channel for the presence of radar signals.

Additional requirements for devices with	Master or Client with	Client without radar	
multiple bandwidth modes	radar detection	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	Any single BW mode	Not required	
Note: From the form of the late of the form of the late of the lat			

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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.

5.6.1. Test Limit

Parameter	Value
Channel Move Time	< 10 s (See Note 1)
Channel Closing Transmission Time	< 200 ms+ an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and Notes 2.)

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.

Limits Clause 4.7.2.2.2

The In-Service Monitoring shall be used to continuously monitor an Operating Channel.

The In-Service-Monitoring shall start immediately after the RLAN has started transmissions on an Operating Channel.

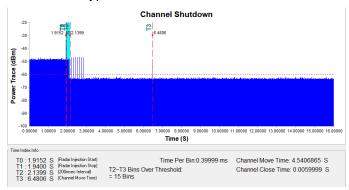
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5.6.2. Test Result of In-Service Monitoring

	Value	Limit
Channel Move Time	4.5406865	<10 s
Channel Closing Transmission Time	5.9999	< 60 ms

Modulation Type:802.11ax HE160, ch114@5570MHz



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5.7. Non-Occupancy Period

The Channel Shutdown is defined as the process initiated by the RLAN device immediately after a radar signal has been detected on an Operating Channel.

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The master device shall instruct all associated slave devices to stop transmitting on this channel, which they shall do within the Channel Move Time.

Slave devices with a Radar Interference Detection function, shall stop their own transmissions within the Channel Move Time.

The aggregate duration of all transmissions of the RLAN device on this channel during the Channel Move Time shall be limited to the Channel Closing Transmission Time. The aggregate duration of all transmissions shall not include quiet periods in between transmissions.

5.7.1. Test Limit

Radar Test Signal	Master (min)	Client (min)
0	> 30	> 30

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5.7.2. Test Result of Non-Occupancy Period

Modulation Type:802.11ax HE160, ch114@5570MHz



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