



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 7 USB Adapter

Model No. : GUBE65N

Trade Name : msi

FCC ID : I4L-GUBE65N

I HEREBY CERTIFY THAT :

The sample was received on Jul. 16, 2026 and the testing was completed on Sep. 05, 2026 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:

Vic Hsiao / Reviewer

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory



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Appendix A. Test of AC Power Line Conducted Emission

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Appendix D. In-Band Emission

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**History of this test report**

Report No.	Issued Date	Description
26060276-TRFCC03	Sep. 18, 2026	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033 D02 v02r01

KDB 987594 D01 v03r01

KDB 987594 D02 v03

The following reference test guidance is not within the scope of accreditation of TAF.

FCC KDB 662911 D01 v02r01

FCC KDB 412172 D01 v01r01

FCC Rule	Description of Test	Result	Remark
15.203	Antenna Requirement	PASS	-
15.207(a)	AC Power Line Conducted Emission	PASS	-
15.407(b) 15.209	Undesirable Emission	PASS	-
15.407(a)	26 dB & Occupied Bandwidth	PASS	-
15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
15.407(d)	Contention-Based Protocol	PASS	-
2.1091	Radio Frequency Exposure	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.



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Operation Frequency Range	2.4GHz:802.11b/g/n/ax/be: 2400-2483.5MHz 5GHz:802.11a/n/ac/ax/be: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz, 5850-5895MHz 6GHz: 802.11ax/be: 5925MHz~6425MHz, 6425MHz~6525MHz 6525MHz~6875MHz, 6875MHz~7125MHz
Center Frequency Range	2.4GHz:802.11b/g/n(TurboQAM)/ax/be: 2412MHz-2472MHz 5GHz:802.11a/n/ac/ax/be: 5180-5250MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz, 5865-5885MHz 6GHz: 802.11ax/be: 5955MHz~6415MHz , 6435MHz~6515MHz 6535MHz~6855MHz, 6875MHz~7115MHz
Modulation Type	2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(TurboQAM) 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM 5GHz: 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM 6GHz: 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Modulation Technology	DSSS, OFDM, OFDMA
Data Rate	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(TurboQAM) 802.11ax: MCS0 – MCS11,HE20/40 802.11be: MCS0 – MCS13,EHT20/40 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,HE20/40/80/160 802.11be: MCS0 – MCS13,EHT20/40/80/160 6GHz 802.11ax: MCS0 – MCS11, HE20/40/80/160 802.11be: MCS0 – MCS13,EHT20/40/80/160



Antenna Type	PIFA Antenna
Antenna Gain	2400-2500MHz: ANT A: -0.50dBi, ANT B: -3.00dBi 5150-5250MHz: ANT A: -3.40dBi, ANT B: -1.30dBi 5250-5350MHz: ANT A: -3.50dBi, ANT B: -2.10dBi 5470-5725MHz: ANT A: -2.70dBi, ANT B: -3.20dBi 5725-5850MHz: ANT A: -2.10dBi, ANT B: -3.50dBi 5925-6425MHz: ANT A: -1.00dBi, ANT B: -4.20dBi 6425-6525MHz: ANT A: 0.10dBi, ANT B: -4.00dBi 6525-6875MHz: ANT A: 0.70dBi, ANT B: -3.60dBi 6875-7125MHz: ANT A: -1.60dBi, ANT B: -1.80dBi
USB C to USB A connector	msi \ USB-C to -A Connector

Note: 1. WLAN 2.4G 802.11n Support TurboQAM.

2. EUT support TPC Function.

3. EUT support Client Mode without radar detection.

4. EUT Only Support Full RU.

5. For more details, please refer to the User's manual of the EUT.

2.2. Carrier Frequency of Channels

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925 ~ 7125	802.11ax(HE20) 802.11be(EHT20)	6115 ~ 7095	33~229[50]
5925 ~ 7125	802.11ax(HE40) 802.11be(EHT40)	6125 ~ 7085	35~227[25]
5925 ~ 7125	802.11ax(HE80) 802.11be(EHT80)	6145 ~ 7025	39~215[12]
5925 ~ 7125	802.11ax(HE160) 802.11be(EHT160)	6185 ~ 6985	47~207[6]



(For Above 1GHz)

Below test Channel generated the worst case, they were reported as the final data.

WIFI 6GHz	Channel	Frequency (MHz)	Bandedge	1GHz ~ 7.5GHz	7.5GHz ~ 18GHz	18GHz ~ 40GHz
20MHz	1	5955	v	v	v	
	45	6175	v	v	v	
	93	6415	v	v	v	
	97	6435	v	v	v	
	105	6475	v	v	v	
	113	6515	v	v	v	
	117	6535	v	v	v	
	153	6715	v	v	v	
	181	6855	v	v	v	
	185	6875	v	v	v	
	189	6895	v	v	v	
	213	7015	v	v	v	
	229	7095	v	v	v	
	233	7115	v	v	v	
40MHz	3	5965	v	v	v	
	43	6165	v	v	v	
	91	6405	v	v	v	
	99	6445	v	v	v	
	107	6485	v	v	v	
	115	6525	v	v	v	
	123	6565	v	v	v	
	155	6725	v	v	v	
	179	6845	v	v	v	
	187	6885	v	v	v	
	195	6925	v	v	v	
	211	7005	v	v	v	
	227	7085	v	v	v	
80MHz	7	5985	v	v	v	
	39	6145	v	v	v	
	87	6385	v	v	v	
	103	6465	v	v	v	
	119	6545	v	v	v	
	135	6625	v	v	v	
	151	6705	v	v	v	
	167	6785	v	v	v	
	183	6865	v	v	v	
	199	6945	v	v	v	
160MHz	215	7025	v	v	v	v
	15	6025	v	v	v	
	47	6185	v	v	v	
	79	6345	v	v	v	
	111	6505	v	v	v	
	143	6665	v	v	v	
	175	6825	v	v	v	
	207	6985	v	v	v	



2.3. Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- An executive program, "REALTEK Mass Production Kit mp_v2.0.44" under Windows OS system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode 1	TX Mode, Power from System (AC 120V/60Hz), CH211
Test Mode 2	TX Mode, Power from System (AC 240V/60Hz), CH211
caused "Test Mode 2" generated the worst case, these were reported as the final data.	
Radiated Emissions (Below 1GHz)	
Test Mode 1	TX Mode, Power from System (AC 120V/60Hz), CH211
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiated Emissions (1GHz ~ 40GHz)	
Test Mode 1	TX Mode, Power from System (AC 120V/60Hz)
caused "Test Mode 1" were the worst case, these were reported as the final data.	

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11ax HE80	2TX
802.11ax HE160	2TX
802.11be EHT20	2TX
802.11be EHT40	2TX
802.11be EHT80	2TX
802.11be EHT160	2TX

**2.4. Description of Test System**

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	N/A
USB Cable (M to F)	Imax	BUSB3100AMA	1.5m / NS	N/A

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
USB Cable (M to F)	Imax	BUSB3100AMA	1.5m / NS	N/A

AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS

CBP				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	P28S	N/A	Adapter / 1.8m / NS
Notebook	HP	CRIUS N310-G1	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A



2.5. General Information of Test

Organization	Cerpass Technology Corp.	
☒ Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881	
	FCC	TW1439, TW1079
	ISED Company Number	4934E
	ISED CAB identifier	TW1439
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9 kHz to 40,000MHz	
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON02-NK	2026/07/29	24.9°C / 49%	Peter Pan
RF Conducted	RFCON02-NK	2026/07/30	24.7°C / 51%	Peter Pan
RF Conducted	RFCON02-NK	2026/07/31	24.6°C / 55%	Peter Pan
Radiated Emissions	3M02-NK	2026/07/22	19.5°C / 53%	Kailun Luo
Radiated Emissions	3M02-NK	2026/07/23	16.5°C / 52%	Prak Chen
Radiated Emissions	3M02-NK	2026/07/27	22.4°C / 59%	Kailun Luo
AC Power Line Conducted Emission	CON01-NK	2026/07/28	23.1°C / 67%	Tim Chen
CBP	RFDFS01-NK	2026/09/03	25.7°C / 56%	Shyi Suen
CBP	RFDFS01-NK	2026/09/04	25.5°C / 52%	Shyi Suen
CBP	RFDFS01-NK	2026/09/05	25.3°C / 53%	Shyi Suen

2.6. 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
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.2dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.5%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±223.073Hz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	VULB 9168-1947	2026/02/10	2027/02/09
Active Loop Antenna	Schwarzbeck	FMZB 1513	00414	2026/02/04	2027/02/03
Double Ridged Guide Horn Antenna	RF SPAN	DRH18-E	210309A18-ES	2025/08/22	2026/08/21
Horn Antenna	RF SPIN	DRH0844	KV2E20A0844	2026/03/26	2027/03/25
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2026/05/26	2027/05/25
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2025/08/18	2026/08/17
Preamplifier	EMC INSTRUMENTS	EMC118A45V1SS	981069	2025/12/18	2026/12/17
Preamplifier	EMC INSTRUMENTS	EMC184045SEE	981159	2026/04/02	2027/04/01
Preamplifier	EM Electronics corp.	EM330	60659	2025/12/18	2026/12/17
Cable-4m (9k-3G)	EMEC	RG-223	18274M	2026/07/01	2027/06/30
Cable-1m (30M-1G)	EMC INSTRUMENTS	EMCCFD400-NM-NM-1000	260301	2026/04/10	2027/04/09
Cable-3m (30M-1G)	EMC INSTRUMENTS	EMCCFD400-NM-NM-3000	260302	2026/04/10	2027/04/09
Cable-7m (30M-1G)	EMC INSTRUMENTS	EMCCFD400-NM-NM-7000	260303	2026/04/10	2027/04/09
Cable-8m (10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2025/10/15	2026/10/14
Cable-3m (10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2025/10/15	2026/10/14
Cable-1m (1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2025/10/15	2026/10/14
Cable-1m (1G-40G)	EMC INSTRUMENTS	EMC104HS-KM-KM-1000	260304	2026/04/10	2027/04/09
Cable-3m (1G-40G)	EMC INSTRUMENTS	EMC104HS-KM-KM-3000	260305	2026/04/10	2027/04/09
Cable-7m (1G-40G)	EMC INSTRUMENTS	EMC104HS-KM-KM-7000	260306	2026/04/10	2027/04/09
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	WOKEN	WFIL-H3000-18000F-03	WR377WC2B1	2025/10/13	2026/10/12
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR468FWC2B1	2025/10/03	2026/10/02
Hipass Filter	Warison	WFIL-H7500-18000F-01	WRO5CFWC2B1	2025/10/13	2026/10/12



Test Item	RF Conducted				
Test Site	RFCON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2025/10/23	2026/10/22
Power Meter	Anritsu	ML2495A	1224005	2026/01/27	2027/01/26
Power Sensor	Anritsu	MA2411B	1207295	2026/01/27	2027/01/26
Attenuator	KEYSIGHT	8491B	MY39250703	2026/01/29	2027/01/28

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2026/06/24	2027/06/23
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	1197	2025/09/22	2026/09/21
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	102185	2025/08/28	2026/08/27
Cable-4m (9k-3G)	EMEC	RG-223	18274M	2026/07/01	2027/06/30
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA

Test Item	CBP				
Test Site	RFDFS01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100291	2025/10/15	2026/10/14
MXG-B RF Vector Signal Generator + Frequency Extender	KEYSIGHT	N5182B + N5182BX07	MY53051383 + MY59362519	2026/02/26	2027/02/25
Control BOX	World-pallas	AD222	L4490A	NA	NA
IOT0047A	KEYSIGHT	24.12.13.14	NA	NA	NA



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.

4.2. Antenna Construction and Directional Gain

Antenna Type	PIFA Antenna
Antenna Gain	5925-6425MHz: ANT A: -1.00dBi, ANT B: -4.20dBi 6425-6525MHz: ANT A: 0.10dBi, ANT B: -4.00dBi 6525-6875MHz: ANT A: 0.70dBi, ANT B: -3.60dBi 6875-7125MHz: ANT A: -1.60dBi, ANT B: -1.80dBi

5925-6425MHz
For Power directional gain= $G_{ant} = -1.00$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 0.56$ (dBi)
6425-6525MHz
For Power directional gain= $G_{ant} = -0.10$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 1.30$ (dBi)
6525-6875MHz
For Power directional gain= $G_{ant} = -0.70$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 1.82$ (dBi)
6875-7125MHz
For Power directional gain= $G_{ant} = -1.60$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 1.31$ (dBi)

*MIMO type: Cyclic Delay Diversity (CDD) mode.



5. Test of AC Power Line Conducted Emission

5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

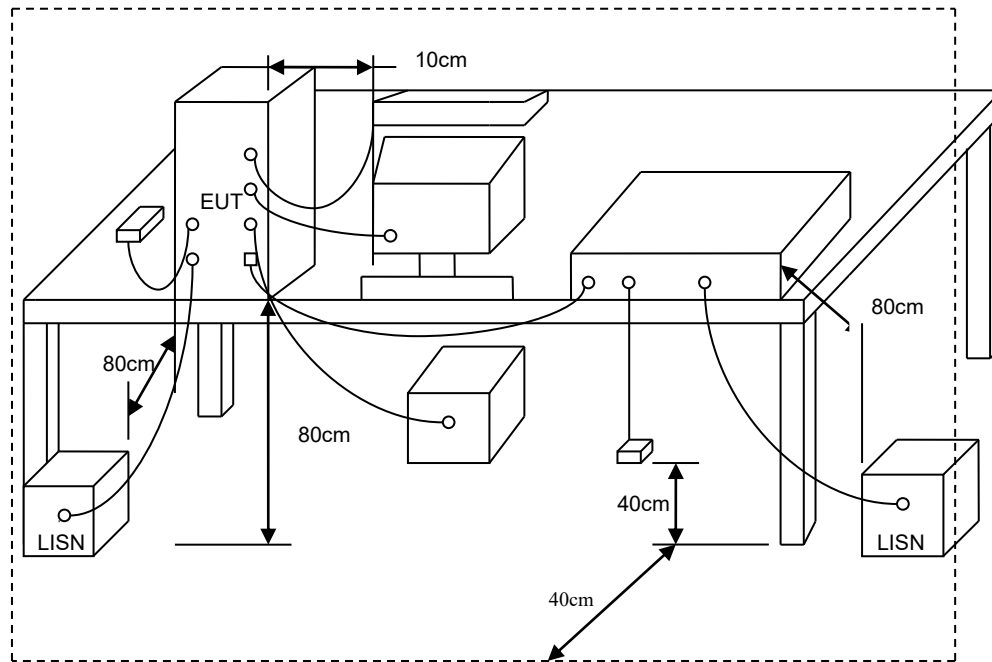
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.3. Typical Test Setup



5.4. Test Result and Data

Refer to Appendix A

5.5. Test Photographs

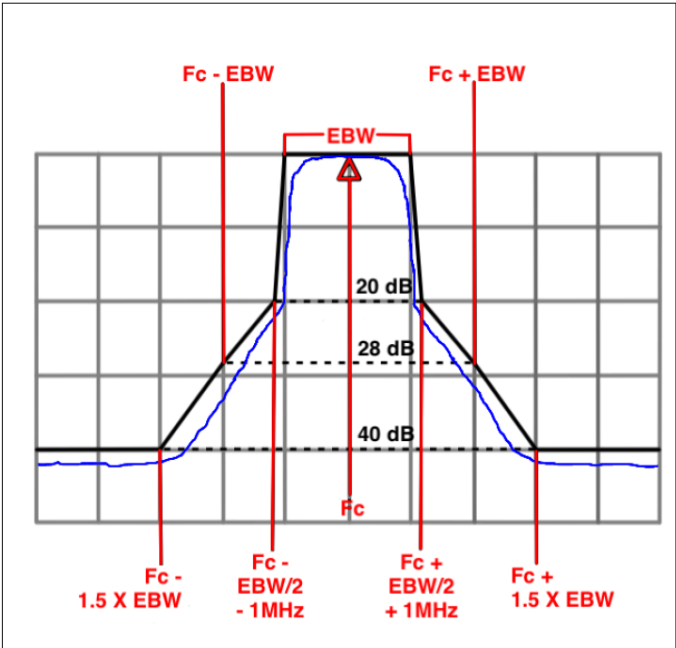
Refer to Appendix J



6. Test of Undesirable Emission (Radiated)

6.1. Test Limit

Un-restricted band emissions above 1GHz Limit

Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	<p>e.i.r.p. -27 dBm [68.2 dBuV/m@3m]</p> <p>Note :</p> <p>-27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.</p>
5.945 – 7.125 GHz	<p>Emission MASK Limit</p> <p>Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one and one-half times the channel bandwidth must be suppressed by at least 40 dB.</p> 



6.2. Test Procedures

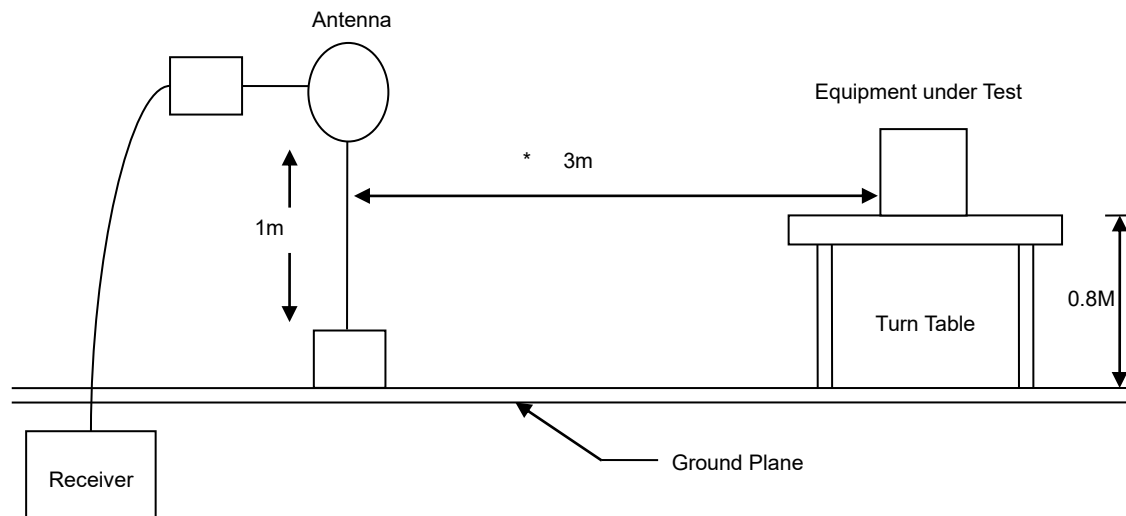
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(X -AXIS is the worst.)

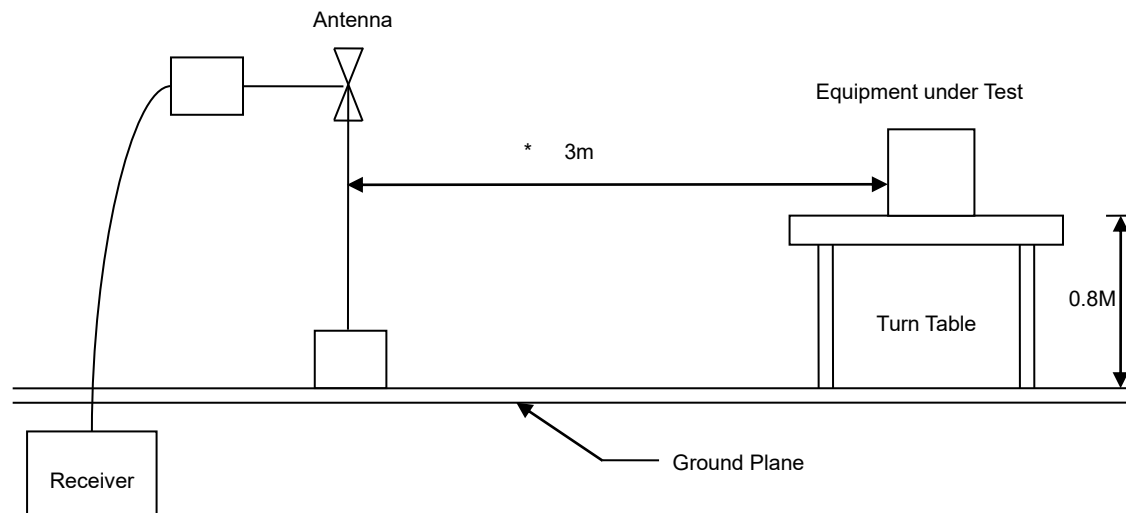


6.3. Typical Test Setup

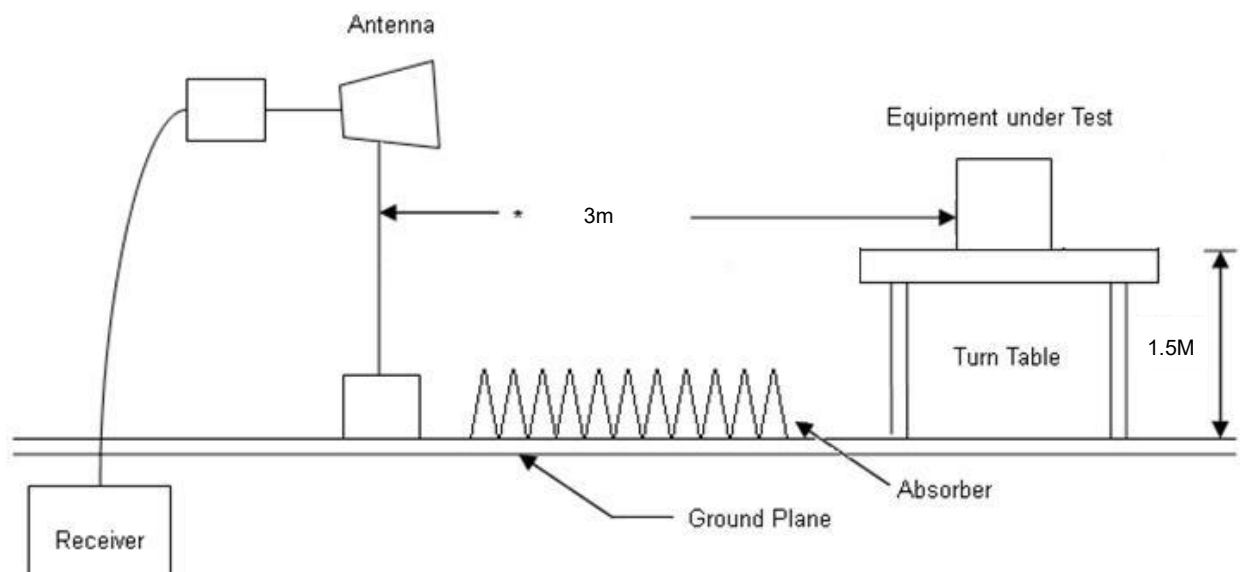
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





6.4. Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5. Test Result and Data (30MHz ~ 1GHz)

Refer to Appendix B

6.6. Test Result and Data (Above 1GHz)

Refer to Appendix C

6.7. In-Band Emission

Refer to Appendix D

6.8. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

6.9. Test Photographs

Refer to Appendix J



7. On Time, Duty Cycle

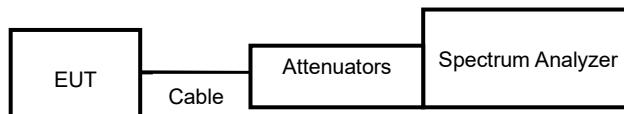
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout



7.4. Test Result and Data

Refer to Appendix E



8. 26dB Bandwidth & 99% Occupied Bandwidth

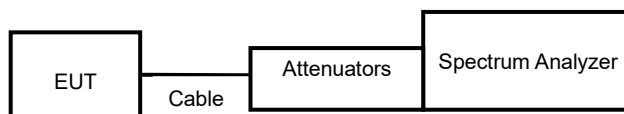
8.1. Test Limit

The 26dB Bandwidth shall not exceed 320 MHz.

8.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

8.3. Test Setup Layout



8.4. Test Result and Data (26dB Bandwidth)

Refer to Appendix F

8.5. Test Result and Data (99% Occupied Bandwidth)

Refer to Appendix F



9. Maximum Equivalent Isotropically Radiated Power(E.I.R.P.)

9.1. Test Limit

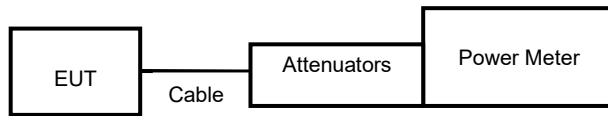
Frequency Band		Limit
☒	5.925~6.425GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	☐ For indoor access point :	e.i.r.p < 30 dBm.
	☐ For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
	☐ For client device control of a standard power access point:	e.i.r.p < 30 dBm.
	☒ For client device control of an indoor access point:	e.i.r.p < 24 dBm.
	☐ For very low power devices	e.i.r.p < 14 dBm.
☒	6.425-6.525 GHz	
	Operating Mode	
	☐ For indoor access point	e.i.r.p < 30 dBm.
☒	☒ For client device control of an indoor access point ::	e.i.r.p < 24 dBm.
	6.525~6.875 GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	☐ For indoor access point :	e.i.r.p < 30 dBm.
	☐ For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
	☐ For client device control of a standard power access point:	e.i.r.p < 30 dBm.
	☒ For client device control of an indoor access point:	e.i.r.p < 24 dBm.
	☐ For very low power devices	e.i.r.p < 14 dBm.
☒	6.875-7.125 GHz	
	Operating Mode	
	☐ For indoor access point	e.i.r.p < 30 dBm.
☒	☒ For client device control of an indoor access point ::	e.i.r.p < 24 dBm.



9.2. Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

9.3. Test Setup Layout



9.4. Test Result and Data

Refer to Appendix G



10. Peak Power Spectral Density (E.I.R.P.)

10.1. Test Limit

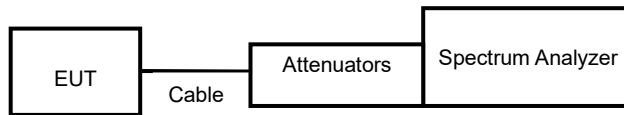
Frequency Band		Limit
☒	5.925~6.425GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p PSD < 23 dBm/MHz.
	☐ For indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For subordinate device control of an indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For client device control of a standard power access point:	e.i.r.p PSD < 17 dBm/MHz.
	☒ For client device control of an indoor access point:	e.i.r.p PSD < -1 dBm/MHz.
☒	☐ For very low power devices	e.i.r.p PSD < -5 dBm/MHz.
	6.425-6.525 GHz	
	Operating Mode	
☒	☐ For indoor access point	e.i.r.p PSD < 5 dBm/MHz.
	☒ For client device control of an indoor access point ::	e.i.r.p PSD < -1 dBm/MHz.
☒	6.525~6.875 GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p PSD < 23 dBm/MHz.
	☐ For indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For subordinate device control of an indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For client device control of a standard power access point:	e.i.r.p PSD < 17 dBm/MHz.
	☒ For client device control of an indoor access point:	e.i.r.p PSD < -1 dBm/MHz.
☒	☐ For very low power devices	e.i.r.p PSD < -5 dBm/MHz.
	6.875-7.125 GHz	
	Operating Mode	
☒	☐ For indoor access point	e.i.r.p PSD < 5 dBm/MHz.
	☒ For client device control of an indoor access point ::	e.i.r.p PSD < -1 dBm/MHz.



10.2. Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

10.3. Test Setup Layout



10.4. Test Result and Data

Refer to Appendix H



11. Contention Based Protocol

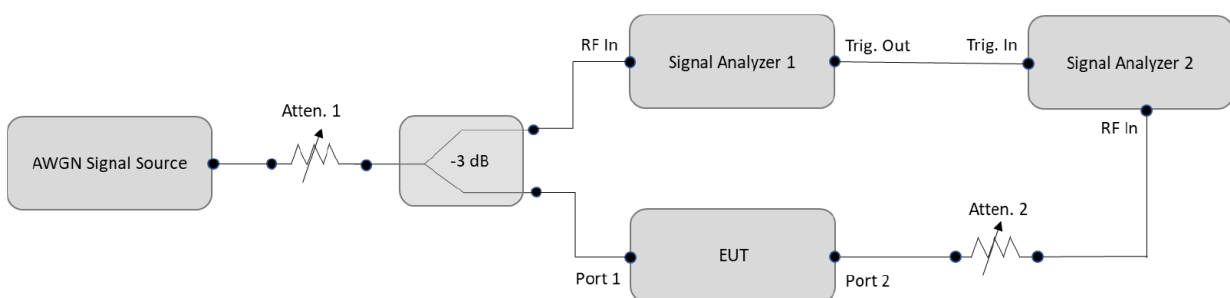
11.1. Test Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

11.2. Test Procedure

Reference to KDB 987594 D02 U-NII 6 GHz EMC Measurement

11.3. Test Setup Layout



11.4. Test Result and Data

Refer to Appendix I

-----THE END OF REPORT-----