



FCC RADIO TEST REPORT

Applicant : Hypertechnologie Ciara Inc. Ciara Technologies Inc

Address : 9300 Transcanadienne St-Laurent, Quebec H4S 1K5
Canada

Equipment : Notebook

Model No. : CRIUS CO310-G1, CRIUS CO310-G1-BL,
CRIUS N320-G1, CRIUS N320-G1-BL,
CRIUS N310-G1, CRIUS N310-G1-BL

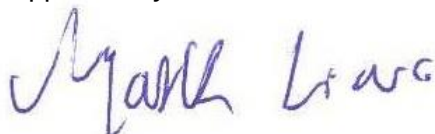
Trade Name : 

FCC ID : 2BDS2-CRIUS

I HEREBY CERTIFY THAT :

The sample was received on Nov. 15, 2023 and the testing was completed on Dec. 28, 2023 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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Appendix explains:

Appendix A. Test of AC Power Line Conducted Emission

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

Appendix C. Test Result and Data (1GHz ~ 40GHz)

Appendix D. In-Band Emission

Appendix E. On Time, Duty Cycle

Appendix F. 26dB Bandwidth & 99% Occupied Bandwidth

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

Appendix H. Peak Power Spectral Density (E.I.R.P.)

Appendix I. Contention Based Protocol

Appendix J. Test Photographs



History of this test report

Report No.	Issued Date	Description
23110047-TRFCC02	Jan. 05, 2024	Original



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 D02 v02r01

KDB 987594 D01 v02r02

KDB 987594 D02 v02r01

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	6GHz: 802.11ax: 5925MHz~6425MHz, 6425MHz~6525MHz 6525MHz~6875MHz, 6875MHz~7125MHz
Center Frequency Range	6GHz: 802.11ax: 5955MHz~6415MHz, 6435MHz~6515MHz 6535MHz~6855MHz, 6875MHz~7115MHz
Modulation Type	6GHz: 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	OFDMA
Data Rate	802.11ax: MCS0 – MCS11, HE20/40/80/160
Antenna Type	FPCB Antenna
Antenna Gain (For CRIUS CO310-G1, CRIUS CO310-G1-BL)	5955~6415MHz:ANT A: 3.90dBi, ANT B: 5.10dBi 6435~6515MHz:ANT A: 2.41dBi, ANT B: 3.36dBi 6535~6855MHz:ANT A: 2.67dBi, ANT B: 4.99dBi 6875~7115MHz:ANT A: 2.15dBi, ANT B: 4.21dBi
Antenna Gain (For CRIUS N310-G1, CRIUS N310-G1-BL)	5955~6415MHz:ANT A: 4.99dBi, ANT B: 3.43dBi 6435~6515MHz:ANT A: 4.75dBi, ANT B: 3.50dBi 6535~6855MHz:ANT A: 5.68dBi, ANT B: 4.04dBi 6875~7115MHz:ANT A: 3.60dBi, ANT B: 3.45dBi
Antenna Gain (For CRIUS N320-G1, CRIUS N320-G1-BL)	5955~6415MHz:ANT A: 3.80dBi, ANT B: 2.31dBi 6435~6515MHz:ANT A: 3.77dBi, ANT B: 1.98dBi 6535~6855MHz:ANT A: 4.00dBi, ANT B: 2.58dBi 6875~7115MHz:ANT A: 4.23dBi, ANT B: 2.19dBi
Adapter	Brand: Shenzhen Aoda Power Technology Co Ltd Model: AB869-200325C-US1
Type C Cable	Brand: Hong Zhan Xin Electronics Co.,Ltd. Model: E.B.A.0000352

Note:

1. EUT support Indoor Client.
2. Main: ANT A , Aux: ANT B , Mimo:ANT A& ANT B
3. For more details, please refer to the User's manual of the EUT.
4. The EUT Only Support Full RU.
5. EUT not support TPC Function.
6. The device not support Channel Puncturing or Bandwidth Reduction mechanisms supported

Difference description:

Model No.	Remark
CRIUS CO310-G1	Market segmentation.
CRIUS CO310-G1-BL	
CRIUS N310-G1	Market segmentation.
CRIUS N310-G1-BL	
CRIUS N320-G1	Market segmentation.
CRIUS N320-G1-BL	

Note 1: The Motherboard and Circuit principle are identical except different antenna gain, antenna location HVIN, appearance, keyboard, Interface Board, battery. More details please refer to Product Similarity Declaration.



2.2. Carrier Frequency of Channels

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925 ~ 7125	802.11ax(HE20)	5955 ~ 7115	1~233
5925 ~ 7125	802.11ax(HE40)	5965 ~ 7085	3~227
5925 ~ 7125	802.11ax(HE80)	5985 ~ 7025	7~215
5925 ~ 7125	802.11ax(HE160)	6025 ~ 6985	15~207

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11ax HE20	1TX/2TX
802.11ax HE40	1TX/2TX
802.11ax HE80	1TX/2TX
802.11ax HE160	1TX/2TX



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, "DRTU Ver. DRTU.04956.22.250.0" under Windows OS system was executed to transmit and receive data via WLAN.

The following test modes were performed for the test: For CRIUS CO310-G1

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 8" generated the worst case, it was reported as the final data.	
Radiation Emissions BELOW 1GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 8" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 5-8" generated the worst case, they were reported as the final data.	

Note:1. There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

worst case (V)

Test Item /test voltage	AC 120V / 60Hz	AC 240V / 60Hz.
AC Power Line Conducted Emission: Aux ANT	V	
Undesirable Emission (Radiated BELOW 1GHz) : Aux ANT	V	
AC Power Line Conducted Emission: Main ANT	V	
Undesirable Emission (Radiated BELOW 1GHz) : Main ANT	V	
AC Power Line Conducted Emission: Mimo ANT		V
Undesirable Emission (Radiated BELOW 1GHz) : Mimo ANT		V



The following test modes were performed for the test: For CRIUS N310-G1

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 4" generated the worst case, it was reported as the final data.	
Radiation Emissions BELOW 1GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 8" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 5~8" generated the worst case, they were reported as the final data.	

Note:1. There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

worst case (V)

Test Item /test voltage	AC 120V / 60Hz	AC 240V / 60Hz.
AC Power Line Conducted Emission: Aux ANT	V	
Undesirable Emission (Radiated BELOW 1GHz) : Aux ANT		V
AC Power Line Conducted Emission: Main ANT		V
Undesirable Emission (Radiated BELOW 1GHz) : Main ANT	V	
AC Power Line Conducted Emission: Mimo ANT		V
Undesirable Emission (Radiated BELOW 1GHz) : Mimo ANT		V



The following test modes were performed for the test: For CRIUS N320-G1

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 8" generated the worst case, it was reported as the final data.	
Radiation Emissions BELOW 1GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 8" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-1
2	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-1
3	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-1
4	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-1
5	802.11ax HE20 (7.3Mbps) , Power From Adapter, Type-C-Port-2
6	802.11ax HE40 (14.6Mbps) , Power From Adapter, Type-C-Port-2
7	802.11ax HE80 (30.6Mbps) , Power From Adapter, Type-C-Port-2
8	802.11ax HE160 (61.3Mbps) , Power From Adapter, Type-C-Port-2
caused "Test Mode 5~8" generated the worst case, they were reported as the final data.	

Note:1. There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

worst case (V)

Test Item /test voltage	AC 120V / 60Hz	AC 240V / 60Hz.
AC Power Line Conducted Emission: Aux ANT	V	
Undesirable Emission (Radiated BELOW 1GHz) : Aux ANT	V	
AC Power Line Conducted Emission: Main ANT		V
Undesirable Emission (Radiated BELOW 1GHz) : Main ANT	V	
AC Power Line Conducted Emission: Mimo ANT		V
Undesirable Emission (Radiated BELOW 1GHz) : Mimo ANT	V	

2.4. Description of Test System

CBP					
Equipment	Brand	Model	Length/Type	Power cord/Length/Type	FCC ID
Notebook	Lenovo	S2292L	N/A	Adapter / 1.8m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A	N/A
AP	NETGEAR	RAXE500	N/A	Adapter / 1.5m / NS	PY320300508



2.5. General Information of Test

☑ Test Site	CerpPASS 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
	IC	4934E-1, 4934E-2
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz	
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.	

For CRIUS CO310-G1

Aux

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/21~2023/11/27	22.3~22.6°C / 43~55%	Dian Chen
Radiated Emissions	3M02-NK	2023/12/04~2023/12/23	18~22°C / 46~55%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24°C / 56%	Leon Huang

Main

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/22~2023/12/23	22.3~22.6°C / 43~55%	Dian Chen
Radiated Emissions	3M02-NK	2023/12/04~2023/12/23	18~20°C / 46~55%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24°C / 56%	Leon Huang

Mimo

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/23~2023/12/23	21.7~22.6°C / 43~52%	Dian Chen
Radiated Emissions	3M02-NK	2023/11/30~2023/12/23	18~23°C / 42~55%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24°C / 56%	Leon Huang
CBP	RFDFS01-NK	2023/11/30~2023/12/28	21.6~22.6°C / 45~55%	Dian Chen



For CRIUS N310-G1

Aux

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/21~2023/12/23	22.3~22.6℃ / 43~55%	Dian Chen
Radiated Emissions	3M02-NK	2023/12/05~2023/12/23	18~22℃ / 46~55%	Leon Huang
AC Power Line Conducted Emission	CON01-NK	2023/12/09	24℃ / 56%	Leon Huang

Main

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/22~2023/12/23	22.3~22.6℃ / 43~55%	Dian Chen
Radiated Emissions	3M02-NK	2023/12/05~2023/12/23	18~22℃ / 46~55%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24℃ / 56%	Leon Huang

Mimo

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/23~2023/12/23	21.7~22.6℃ / 43~52%	Dian Chen
Radiated Emissions	3M02-NK	2023/11/24~2023/12/23	18~22℃ / 39~55%	Leon Huang
		2023/12/01	23℃ / 46%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24℃ / 56%	Leon Huang
CBP	RFDFS01-NK	2023/11/30~2023/12/28	21.6~22.6℃ / 45~55%	Dian Chen



For CRIUS N320-G1

Aux

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/21~2023/12/23	22.3~22.6°C / 43~55%	Dian Chen
Radiated Emissions	3M02-NK	2023/12/06~2023/12/23	18~22°C / 46~55%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24°C / 56%	Leon Huang

Main

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/22~2023/12/23	22.3~22.6°C / 43~55%	Dian Chen
Radiated Emissions	3M02-NK	2023/12/06~2023/12/23	18~22°C / 46~55%	Dian Chen
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24°C / 56%	Leon Huang

Mimo

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/11/23~2023/12/23	21.7~22.6°C / 43~52%	Dian Chen
Radiated Emissions	3M02-NK	2023/11/24~2023/12/23	18~22°C / 39~55%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/12/09	24°C / 56%	Leon Huang
CBP	RFDFS01-NK	2023/11/30~2023/12/28	21.6~22.6°C / 45~55%	Dian Chen



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
AC Power Line Conduction(150K~30MHz)	$\pm 3.12\text{dB}$
Radiated Spurious Emission(9KHz~30MHz)	$\pm 3.4\text{dB}$
Radiated Spurious Emission(30MHz~1GHz)	$\pm 5.7\text{dB}$
Radiated Spurious Emission(1GHz~40GHz)	$\pm 6.8\text{dB}$
6dB Bandwidth	$\pm 4.4\%$
26dB Bandwidth	$\pm 4.4\%$
Occupied Bandwidth	$\pm 4.4\%$
Peak Output Power(Conducted Power Meter)	$\pm 1.1\text{dB}$
Power Spectral Density	$\pm 1.8\text{dB}$
Duty Cycle	$\pm 1.2\%$
Frequency Stability	$\pm 0.21\text{KHz}$



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	369	2023/03/15	2024/03/14
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2023/02/03	2024/02/02
Horn Antenna	EMCO	3115	31589	2023/03/23	2024/03/22
Horn Antenna	EMCO	3116	31970	2023/03/03	2024/03/02
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2023/07/05	2024/07/04
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2023/02/24	2024/02/23
Preamplifier	Agilent	8449B	3008A01954	2023/03/08	2024/03/07
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2023/10/13	2024/10/12
Preamplifier	EM Electronics corp.	EM330	60659	2023/03/10	2024/03/09
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2023/03/13	2024/03/12
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2023/02/25	2024/02/24
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2023/03/07	2024/03/06
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2023/03/07	2024/03/06
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2023/03/07	2024/03/06
Cable-1m(1G-40G)	HUBER SUHNER	HUBER SUHNER / SF102	552450	2023/06/08	2024/06/07
Cable-3m(1G-40G)	HUBER SUHNER	HUBER SUHNER / SF102	552451	2023/06/08	2024/06/07
E3	AUDIX	v8.2014-8-6	RK-000529	NA	N/A
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2023/07/03	2024/07/02
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2023/03/13	2024/03/12
Hipass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2023/03/13	2024/03/12

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2023/11/06	2024/11/05
Power Meter	Anritsu	ML2495A	1224005	2023/03/07	2024/03/06
Power Sensor	Anritsu	MA2411B	1207295	2023/03/07	2024/03/06
Attenuator	KEYSIGHT	8491B	MY39250703	2023/03/08	2024/03/07
IOT0047A	KEYSIGHT	V23.9.1.10	NA	NA	NA



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2023/05/08	2024/05/07
TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	102185	2023/08/29	2024/08/28
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2023/07/31	2024/07/30
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	2023/10/11	2024/10/10
MXG-B RF Vector Signal Generator + Frequency Extender	KEYSIGHT	N5182B+N5182BX07	MY53051383+MY59362519	2023/02/22	2024/02/21
Control BOX	World-pallas	AD222	L4490A	NA	NA
IOT0047A	KEYSIGHT	V23.9.1.10	NA	NA	NA
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2023/07/03	2024/07/02



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	FPCB Antenna
Antenna Gain (For CRIUS CO310-G1)	5955~6415MHz:ANT A: 3.90dBi, ANT B: 5.10dBi 6435~6515MHz:ANT A: 2.41dBi, ANT B: 3.36dBi 6535~6855MHz:ANT A: 2.67dBi, ANT B: 4.99dBi 6875~7115MHz:ANT A: 2.15dBi, ANT B: 4.21dBi
Antenna Gain (For CRIUS N310-G1)	5955~6415MHz:ANT A: 4.99dBi, ANT B: 3.43dBi 6435~6515MHz:ANT A: 4.75dBi, ANT B: 3.50dBi 6535~6855MHz:ANT A: 5.68dBi, ANT B: 4.04dBi 6875~7115MHz:ANT A: 3.60dBi, ANT B: 3.45dBi
Antenna Gain (For CRIUS N320-G1)	5955~6415MHz:ANT A: 3.80dBi, ANT B: 2.31dBi 6435~6515MHz:ANT A: 3.77dBi, ANT B: 1.98dBi 6535~6855MHz:ANT A: 4.00dBi, ANT B: 2.58dBi 6875~7115MHz:ANT A: 4.23dBi, ANT B: 2.19dBi



For CRIUS CO310-G1

Aux

6115~6415MHz
For Power directional gain= $G_{ant}= 5.10$ (dBi) For PSD directional gain =5.10 (dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 3.36$ (dBi) For PSD directional gain = 3.36 (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 4.99$ (dBi) For PSD directional gain = 4.99(dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 4.21$ (dBi) For PSD directional gain =4.21(dBi)

Main

6115~6415MHz
For Power directional gain= $G_{ant}= 3.90$ (dBi) For PSD directional gain =3.90(dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 2.41$ (dBi) For PSD directional gain = 2.41 (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 2.67$ (dBi) For PSD directional gain = 2.67(dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 2.15$ (dBi) For PSD directional gain =2.15(dBi)

Mimo

6115~6415MHz
For Power directional gain= $G_{ant}= 5.10$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.53$ (dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 3.36$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 5.91$ (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 4.99$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.92$ (dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 4.21$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.25$ (dBi)

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



For CRIUS N310-G1

Aux

6115~6415MHz
For Power directional gain= $G_{ant}= 3.43$ (dBi)
For PSD directional gain =3.43 (dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 3.50$ (dBi)
For PSD directional gain = 3.50 (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 4.04$ (dBi)
For PSD directional gain = 4.04(dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 3.45$ (dBi)
For PSD directional gain =3.45(dBi)

Main

6115~6415MHz
For Power directional gain= $G_{ant}= 4.99$ (dBi)
For PSD directional gain =4.99 (dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 4.75$ (dBi)
For PSD directional gain = 4.75 (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 5.68$ (dBi)
For PSD directional gain = 5.68(dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 3.60$ (dBi)
For PSD directional gain =3.60(dBi)

Mimo

6115~6415MHz
For Power directional gain= $G_{ant}= 4.99$ (dBi)
For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.26$ (dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 4.75$ (dBi)
For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.16$ (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 5.68$ (dBi)
For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.91$ (dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 3.60$ (dBi)
For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.54$ (dBi)

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



For CRIUS N320-G1

Aux

6115~6415MHz
For Power directional gain= $G_{ant}= 2.31$ (dBi) For PSD directional gain= 2.31 (dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 1.98$ (dBi) For PSD directional gain = 1.98 (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 2.58$ (dBi) For PSD directional gain = 2.58 (dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}=2.19$ (dBi) For PSD directional gain = 2.19 (dBi)

Main

6115~6415MHz
For Power directional gain= $G_{ant}= 3.80$ (dBi) For PSD directional gain = 3.80 (dBi)
6435~6515MHz
For Power directional gain= $G_{ant}= 3.77$ (dBi) For PSD directional gain = 3.77 (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 4.00$ (dBi) For PSD directional gain = 4.00 (dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 4.23$ (dBi) For PSD directional gain = 4.23 (dBi)

Mimo

6115~6415MHz
For Power directional gain= $G_{ant}= 3.80$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.10$ dBi
6435~6515MHz
For Power directional gain= $G_{ant}= 3.77$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 5.93$ (dBi)
6535~6855MHz
For Power directional gain= $G_{ant}= 4.00$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.33$ (dBi)
6875~7115MHz:
For Power directional gain= $G_{ant}= 4.23$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.28$ (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 C63.10-2013. 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

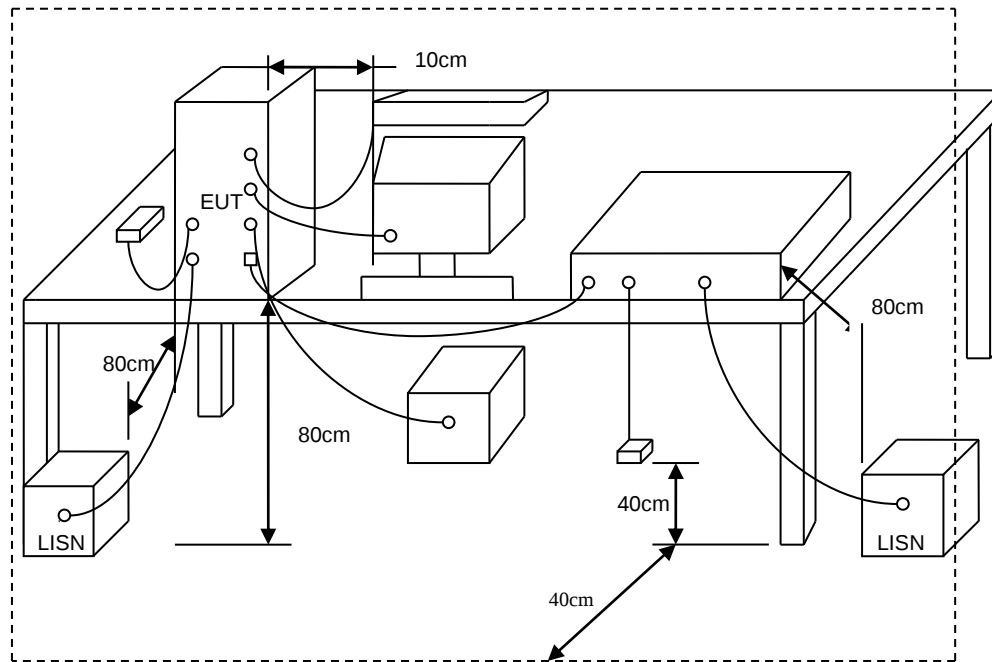
*Decreases with the logarithm of the frequency.

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

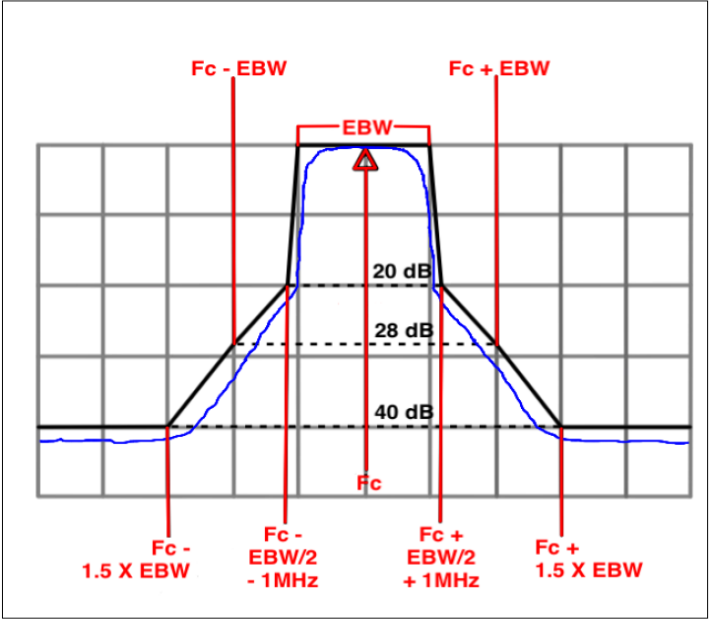
Refer to Appendix J



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	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note : -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.
5.945 – 7.125 GHz	Emission MASK Limit 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. 



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.

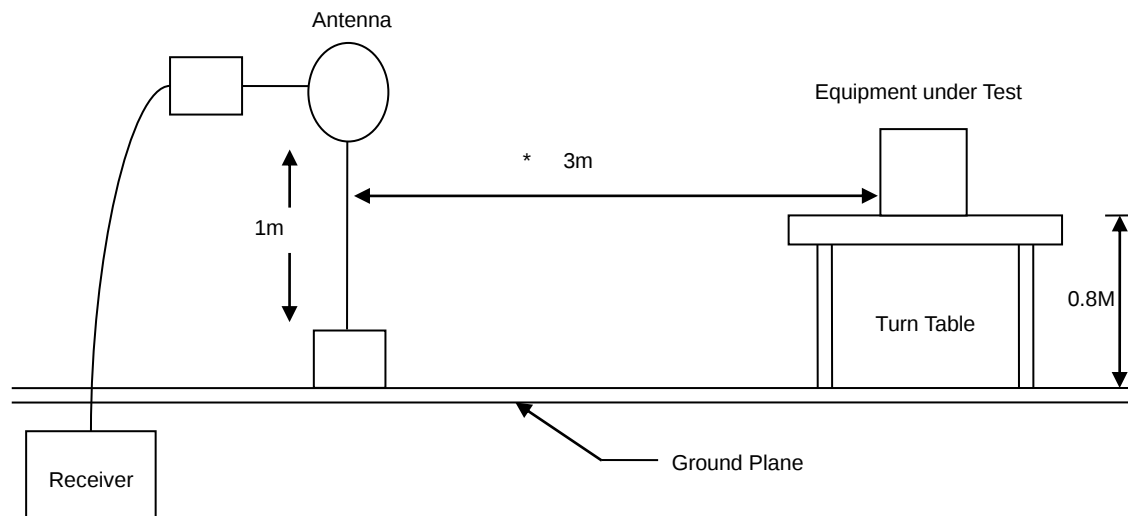
Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.

For CRIUS CO310-G1(Z-AXIS is the worst.)
For CRIUS N310-G1(/Z-AXIS is the worst.)
For CRIUS N320-G1(/Z-AXIS is the worst.)

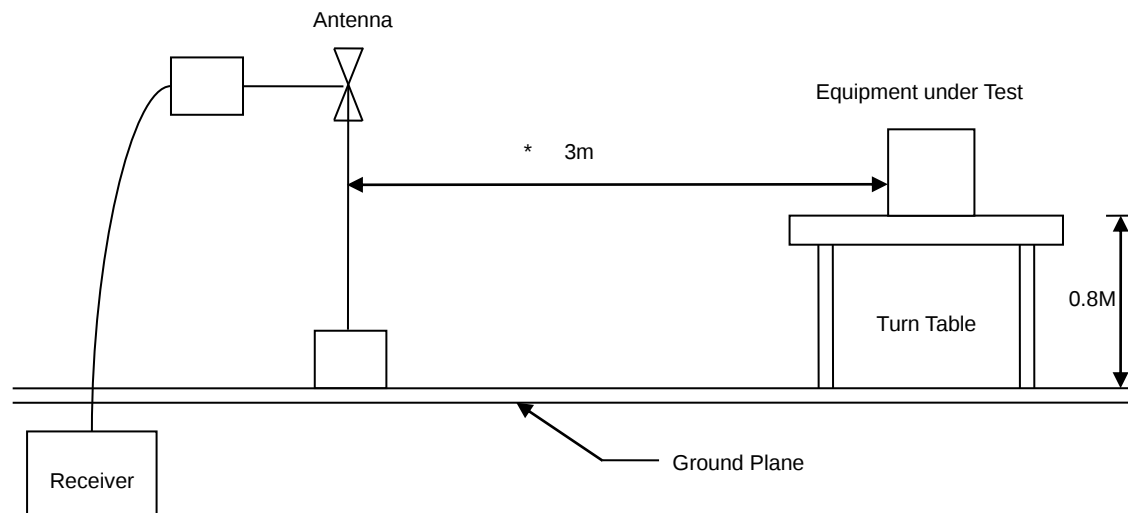


6.3. Typical Test Setup

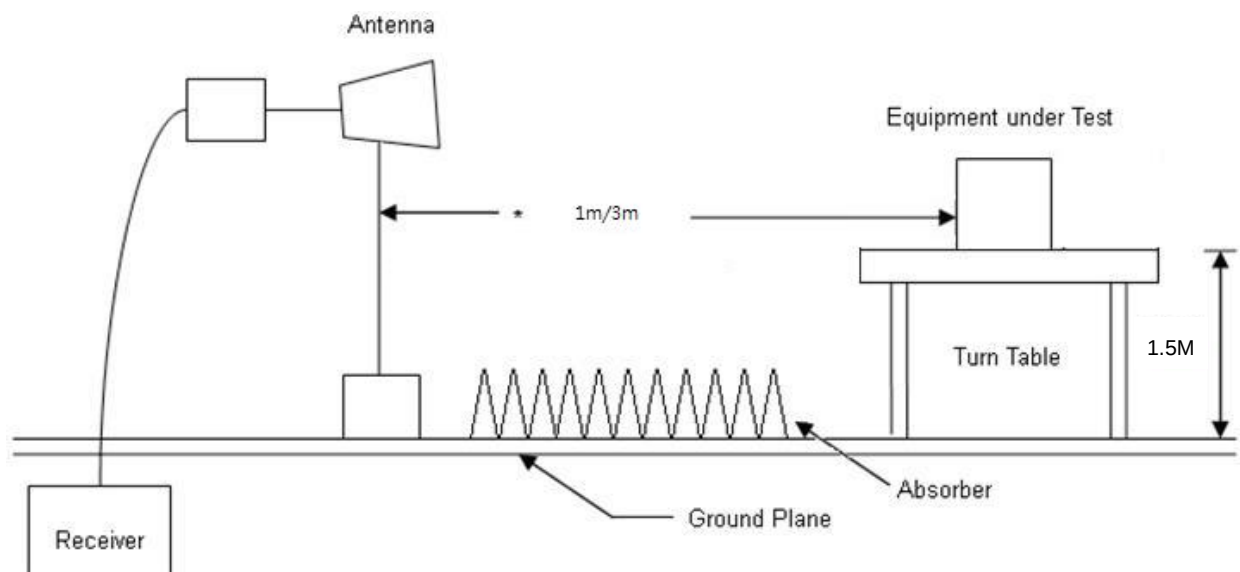
Below 30MHz test setup



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 (1GHz ~ 40GHz)

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 (30MHz ~ 1GHz)

Refer to Appendix J

6.10. Test Photographs (1GHz ~ 40GHz)

Refer to Appendix J



7. On Time, Duty Cycle

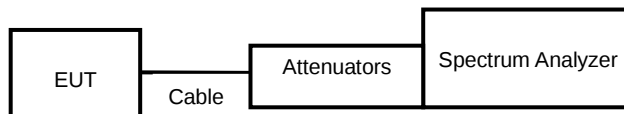
7.1. Test Limit

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

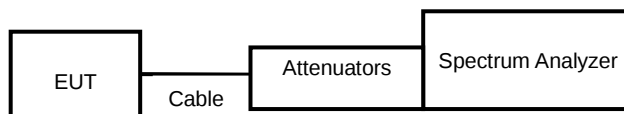
8.1. Test Limit

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.
☒	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.
☒	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.

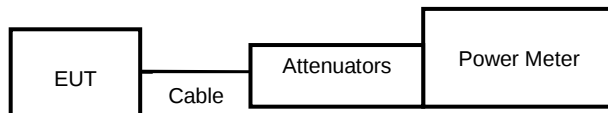


9.2. Test Procedure

According to the methods defined in ANSI C63.10-2013

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

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

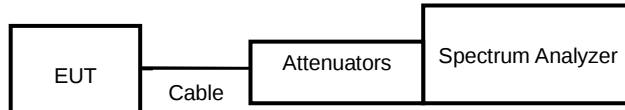
Frequency Band		Limit
☒	5.925~6.425GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p PSD < 23 dBm/MHz.
	☐ For indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For subordinate device control of an indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For client device 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.
☒	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.
☒	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

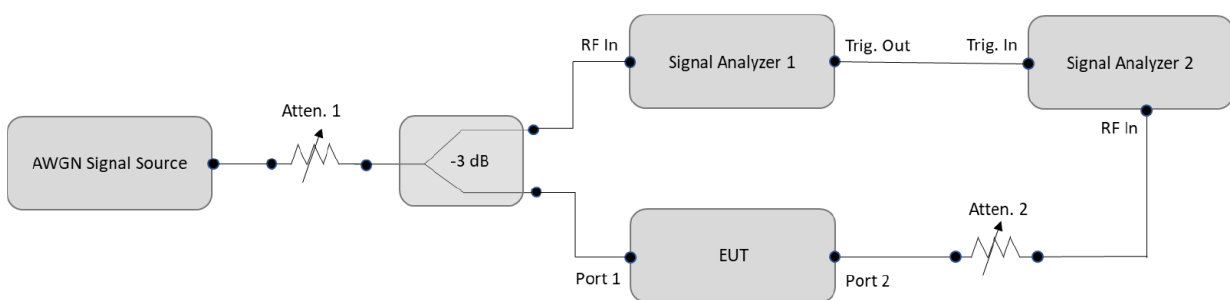
11.1. Test Limit

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 v01

11.3. Test Setup Layout



11.4. Test Result and Data

Refer to Appendix I

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