

Report No.: FR951008-06AC





RADIO TEST REPORT

FCC ID

: MSQ-AXHZ00

Equipment

: AX6600 Tri Band WiFi Router

Brand Name

: ASUS

Model Name

: RT-AX95Q, ZenWiFi XT8, ASUS ZenWiFi XT8, XT8,

ASUS ZenWiFi

Applicant

: ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan

Manufacturer (1)

: Compal Networking (KunShan) Co., LTD.

No. 520, Nanbang Rd., Economic & Technical

Development Zone Kunshan, Jiangsu

Province China

Manufacturer (2) : ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD.

Ba Thien Industrial Park, Ba Hien commune, Binh

Xuyen district, Vinh Phuc Province

Standard

: 47 CFR FCC Part 15.247

The product was received on Sep. 19, 2019, and testing was started from Sep. 19, 2019 and completed on Nov. 10, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

TEL: 886-3-656-9065

FAX: 886-3-656-9085

Report Template No.: CB-A10_6 Ver1.3

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: Nov. 18, 2021

Report Version

: 01

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Appendix B. Test Results of Emissions in Restricted Frequency Bands

Appendix C. Test Photos

Photographs of EUT v01

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History of this test report

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Report No.	Version	Description	Issued Date
FR951008-06AC	01	Initial issue of report	Nov. 18, 2021

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark			
1.1.2	15.203	Antenna Requirement	PASS	-			
3.1	15.207	AC Power-line Conducted Emissions	PASS	-			
3.2 15.247(d) Emissions in Restricted Frequency Bands PASS -							
Note: Refe	Note: Reference to Sporton Project No.: 951008-01, 951008-02, 951008-03.						

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen Report Producer: Wendy Pan

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1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

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Band	Band Mode		Nant
2.4-2.4835GHz BT-LE(1Mbps)		1.0	1TX

Note:

- Bluetooth LE uses a GFSK modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Set	Ant.	Port	Brand	P/N	Antenna Type	Connector	Bluetooth Antenna Gain (dBi)
3	7	1	YAGEO	ANT3216A063R2400A	Chip Antenna	N/A	2.02

Note 1: The above information was declared by manufacturer.

Note 2: For Bluetooth function (Radio 3)

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 EUT Operational Condition

EUT Power Type	From Power Adapter					
Function	☑ Point-to-multipoint ☐ Point-to-point					
Test Software Version		• •				
	\boxtimes	☐ LE 1M PHY: 1 Mb/s				
Cunnart Mada		LE Coded PHY (S=2): 500 Kb/s				
Support Mode		LE Coded PHY (S=8): 125 Kb/s				
		LE 2M PHY: 2 Mb/s				

Note: The above information was declared by manufacturer.

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1.1.4 Table for Multiple Listing

The five model names in the following table are all refer to the identical product.

Brand Name	Model Name	Description
	RT-AX95Q	
	ZenWiFi XT8	All the models are identical the different model names
ASUS	ASUS ZenWiFi XT8	All the models are identical, the different model names
	XT8	served as marketing strategy.
	ASUS ZenWiFi	

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Note 1: From the above models, model: RT-AX95Q was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.5 Table for SKU information

EUT CVU		LAN Transformer		2.5G PHY		Front PCB	Back PCB
EUT	SKU	Brand Name	P/N	Brand Name	P/N	Board	Board
1	SKU 1	NETSWAP	NS773602 / NS771802	BROADCOM	BCM54991ELB0K FEBG		
2	SKU 2	Mingtek	HN36201CG / HN18101CG	BROADCOM	BCM54991ELB0K FEBG	1 LED	Without
3	SKU 3	NETSWAP	NS773602 / NS771802	Realtek	RTL8221B-VB-CG	ILED	Debug LED
4	SKU 4	Mingtek	HN36201CG / HN18101CG	Realtek	RTL8221B-VB-CG		

Note: The above information was declared by manufacturer.

1.1.6 Table for EUT supports functions

Function	Support Type
AP Router	Master
Bridge	Slave without radar detection
Repeater	Master
Mesh	Master

Note: The above information was declared by manufacturer.

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1.1.7 Table for radio information

Radio	2.4GHz	5GHz	Bluetooth
1	V	V (UNII 1)	X
2	X	V (Band UNII 2C~UNII 4)	X
3	Х	Х	V

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Note: The above information was declared by manufacturer.

1.1.8 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR951008AC

Below is the table for the change of the product with respect to the original one.

	Modifications		Performance Checking
1. 2.	Adding four adapters.((Please refer to section 2.4 for detailed information). Adding the second source for 2.5G PHY (Brand: Realtek, Model: RTL8221B-VB-CG)	1. 2.	AC Conducted Emissions Emissions in Restricted Frequency Bands below 1GHz
3.4.5.6.	Changing the quantity of front PCB board LED to 1 LED from 3 LED. Removing the debug LED of the back PCB board. Changing Applicant address to "1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan" from "4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan". Add UNII 4 for this device.	3.	After evaluating, it doesn't affect the test results of this test report.

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1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- 47 CFR FCC Part 15.247
- ANSI C63.10-2013

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information

Test Lab. : Sporton International Inc. Hsinchu Laboratory

Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

(TAF: 3787) TEL: 886-3-656-9065 FAX: 886-3-656-9085

Test site Designation No. TW3787 with FCC.

Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	03CH05-CB	Ken Yeh	24.2-26.1 / 55-58	Nov. 10, 2021
AC Conduction (Test Mode: Mode 1~2)	CO01-CB	Max Lin	23~24 / 58~59	Sep. 19, 2019
AC Conduction (Test Mode: Mode 3~5)	CO01-CB	Wei Li	24~25 / 51~56	Apr. 30, 2020

1.4 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)

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%

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2 Test Configuration of EUT

2.1 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests			
Tests Item	AC power-line conducted emissions		
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz		
	Normal Link		
Operating Mode	 The device supports AP Router mode, Mesh mode - Radio 2_5GHz, Mes mode - Radio 1_5GHz, Mesh mode - Radio 1_2.4GHz. After evaluating, AP Router mode is the worst case, thus measurement will follow this same test mode. The EUT has four SKU: SKU 1 ~ SKU 4. After evaluating, SKU 1 is the worst case, thus measurement will follow this same test mode. 		
1	AP Router mode - EUT 1 + Adapter 1		
2	AP Router mode - EUT 1 + Adapter 2		
3	AP Router mode - EUT 1 + Adapter 3		
4	AP Router mode - EUT 1 + Adapter 4		
5	5 AP Router mode - EUT 1 + Adapter 5		
For operating mode 1 is the worst case and it was record in this test report.			

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Th	The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands			
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.			
	CTX			
Operating Mode < 1GHz	 The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration. The EUT has four wireless functions are: Radio 1 + WLAN 2.4GHz, Radio 1 + WLAN 5GHz Low Band (UNII 1), Radio 2 + WLAN 5GHz High Band (UNII 2C~UNII 4) and Radio 3 + Bluetooth, After evaluating, Radio 1 + WLAN 5GHz UNII 1 mode is the worst case, thus measurement will follow this same test mode. "adapter 4" has been evaluated to be the worst case for adapter 1 ~ 5, thus measurement for this item will follow this same test mode. The EUT has four SKU: SKU 1 ~ SKU 4. After evaluating, SKU 2 is the worst case, thus measurement will follow this same test mode. 			
1	EUT 2 in Y axis + Radio 1 + WLAN 5GHz UNII 1 + adapter 4			

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2.2 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.3 Accessories

	Accessories				
		Model Name	Туре	Country Code	Rating
Adapter 1	PI	AD2088320	010LF	-	Input: 100-240V~50/60Hz, 0.8A Output: 19V, 1.75A
Adapter 2	Delta	ADP-33AW B	-	G	Input: 100-240V~1A, 50-60Hz Output: 19V, 1.75A
Adapter 3	Delta	ADP-33AW Y	-	2G	Input: 100-240V~1A, 50-60Hz Output: 19V, 1.75A, 33.0W
Adapter 4	PI	AD2131M20	-	00	Input: 100-240V~50/60Hz, 0.8A Output: 19V, 1.75A, 33.0W
Adapter 5	PI	AD2131320	-	00	Input: 100-240V~50/60Hz, 0.8A Output: 19V, 1.75A, 33.0W
	Other				
RJ-45 cable*1	RJ-45 cable*1: Non-shielded, 1.5m				

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Note: Adapter 4 with EU plug performed the testing by manufacturer request.

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2.4 Support Equipment

For AC Conduction:

	Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID	
Α	HDD3.0	WD	WDBACY5000AWT	N/A	
В	LAN1 NB	DELL	E6430	N/A	
С	LAN3 NB	DELL	E6430	N/A	
D	2.4G NB	DELL	E6430	N/A	
Е	5G-H NB	DELL	E6430	N/A	
F	5G-L NB	DELL	E6430	N/A	
G	2.5G WAN PC	DELL	T3400	N/A	

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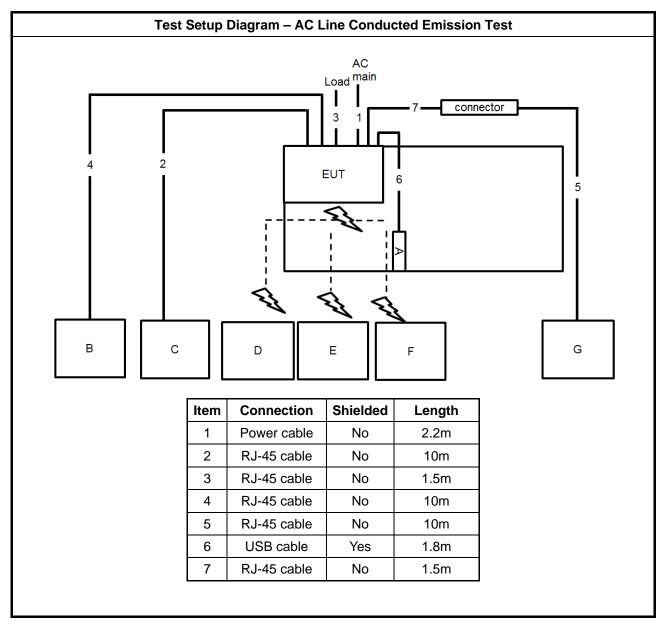
For Radiated (below 1GHz):

		Support Equ	ipment	
No.	Equipment	Brand Name	Model Name	FCC ID
Α	LAN NB	DELL	E4300	N/A

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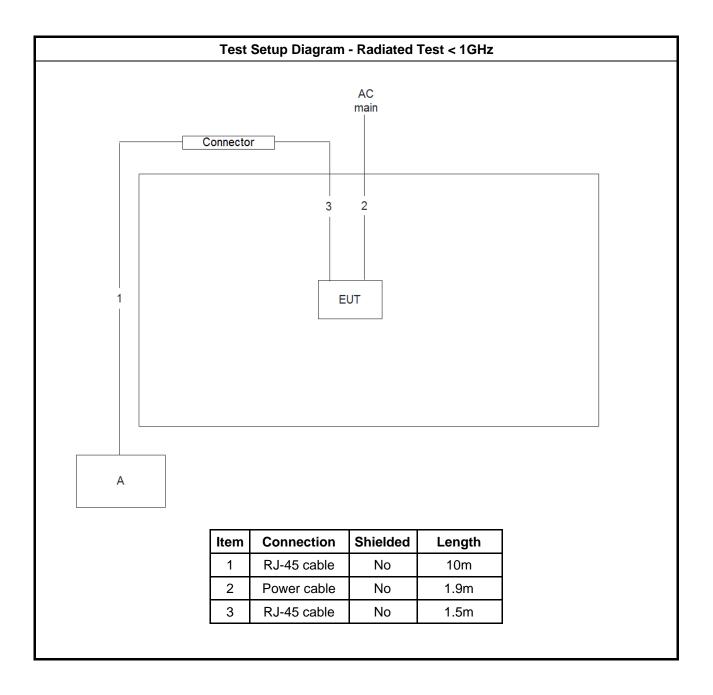


2.5 Test Setup Diagram



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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Powe	er-line Conducted Emissions L	_imit
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of	of the frequency.	

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3.1.2 Measuring Instruments

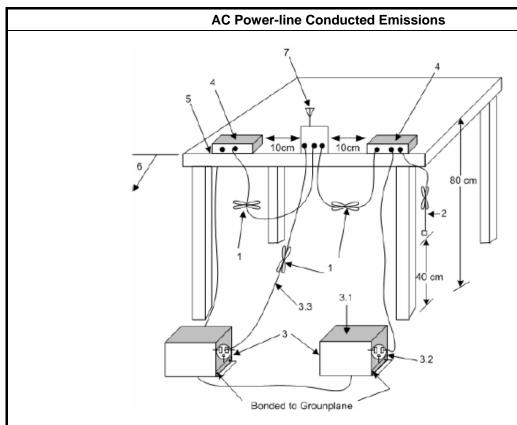
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

	Test Method
•	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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3.1.4 **Test Setup**



-Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.

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- The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
- 3.1—All other equipment powered from additional LISN(s).
- 3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment. 3.3—LISN at least 80 cm from nearest part of EUT chassis.
- 4—Non-EUT components of EUT system being tested.
- -Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
- -Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground
- 7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

Test Result of AC Power-line Conducted Emissions 3.1.5

Refer as Appendix A

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3.2 Emissions in Restricted Frequency Bands

3.2.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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- Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
- Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.
- Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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3.2.3 Test Procedures

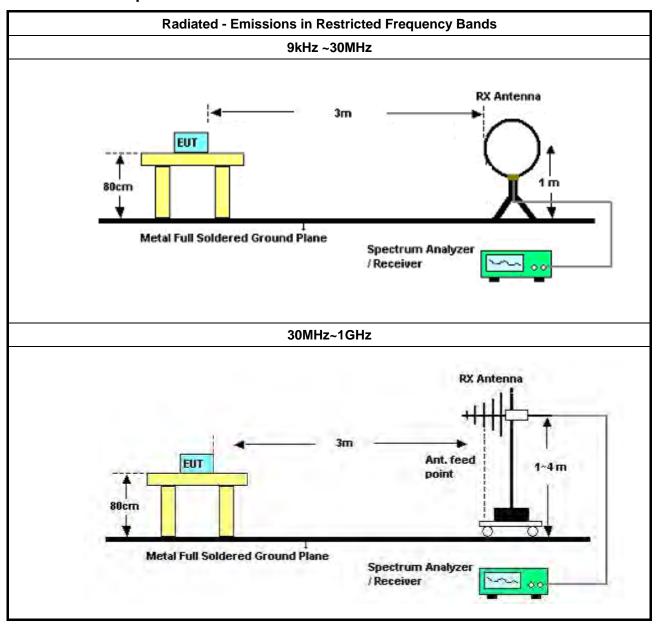
		Test Method		
•	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
•		er as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency and highest frequency channel within the allowed operating band.		
•	For	the transmitter unwanted emissions shall be measured using following options below:		
	•	Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.		
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).		
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).		
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).		
		Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.		
		Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.		
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.		
•	For	the transmitter band-edge emissions shall be measured using following options below:		
	•	Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.		
	•	Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.		
	•	Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).		
	•	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB		
	•	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.		

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3.2.4 Test Setup



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3.2.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

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3.2.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.2.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix B

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4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 27, 2020	Conduction (CO01-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50- 16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50- 16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwa rz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 01, 2019	Jan. 31, 2020	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwa rz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)

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Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

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AC Power Port Conducted Emission Result

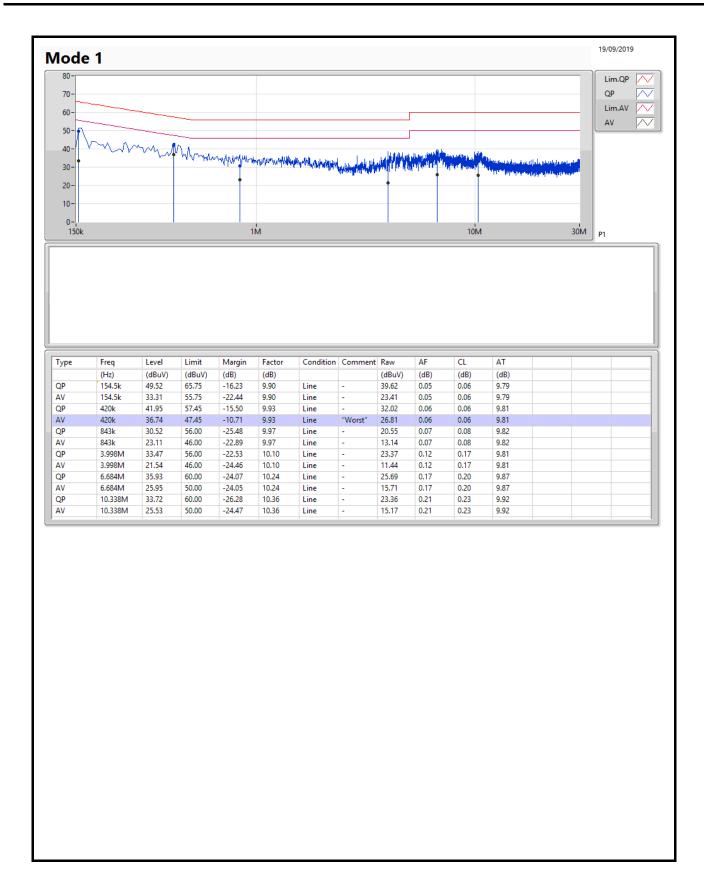
Appendix A

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Condition
			(Hz)	(dBuV)	(dBuV)	(dB)	(dB)	
Mode 1	Pass	AV	420k	37.06	47.45	-10.39	9.91	Neutral

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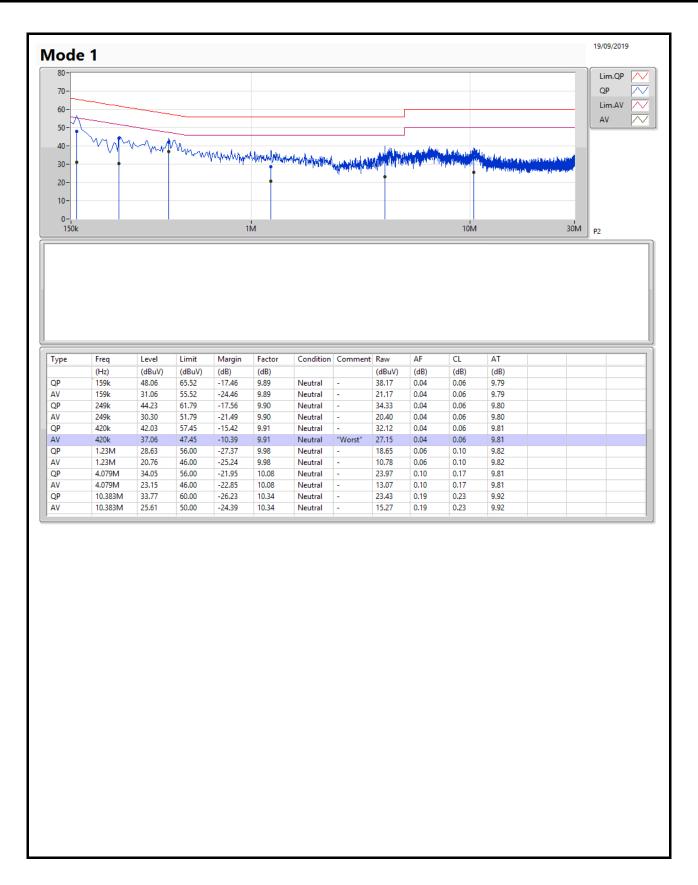
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Radiated Emissions below 1GHz

Appendix B

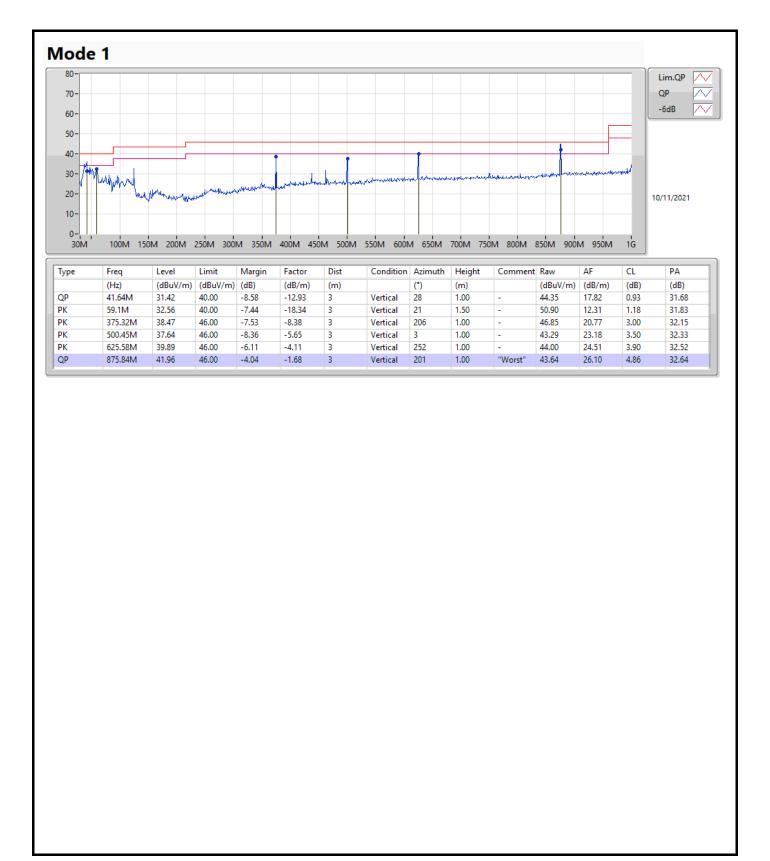
Summary

Mode	Result	Туре	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	875.84M	41.96	46.00	-4.04	Vertical

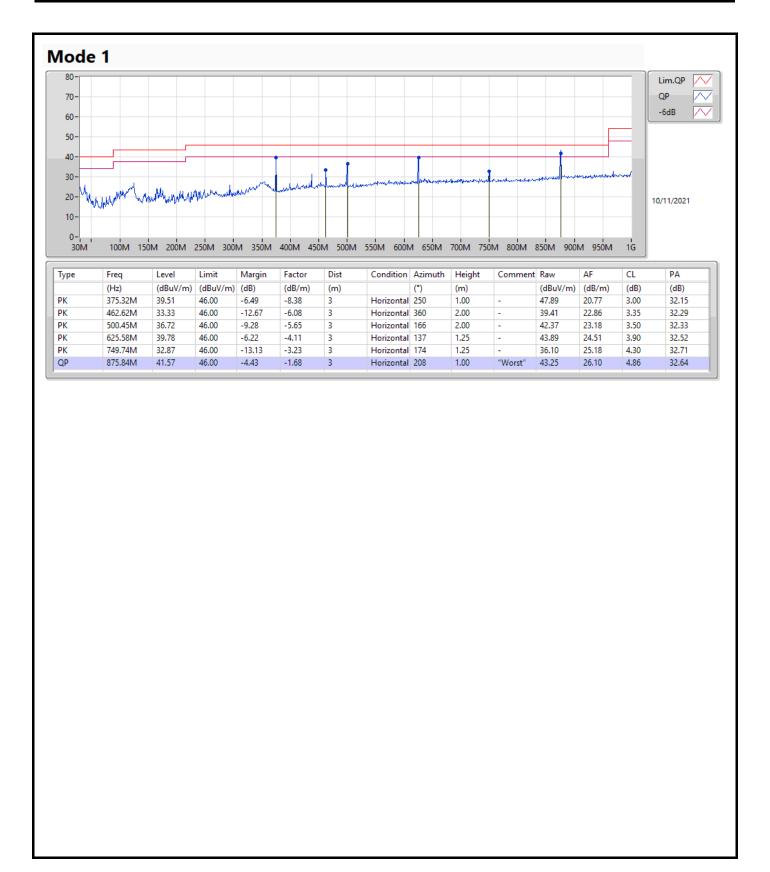
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