

Prüfbericht-Nr.: <i>Test report no.:</i>	CN232OYL (P15C-WiFi) 001	Auftrags-Nr.: <i>Order no.:</i>	48224241	Seite 1 von 33 Page 1 of 33
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-09-23	
Auftraggeber: <i>Client:</i>	Getac Technology Corporation. 5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C			
Prüfgegenstand: <i>Test item:</i>	Tablet PC			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	F110,F110-501			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (WiFi 2.4GHz)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-09-26			
Prüfmuster-Nr.: <i>Test sample no:</i>	A003570410-001 A003570410-003			
Prüfzeitraum: <i>Testing period:</i>	2023-09-22 - 2023-10-06			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
zusammengestellt von: <i>compiled by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2023-10-13	Ausstellungsdatum: <i>Issue date:</i>	2023-10-13	
Stellung / Position:	David Huang Project Manager	Stellung / Position:	Brenda Chen Senior Project Manager	
Sonstiges / Other:	Only RF output power, radiated spurious emissions and mains conduction tests were evaluated in this report. For other test results, please refer to module report no.: 180717-02.TR04.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(3)	Peak Output Power	Pass
-	15.247(a)(2)	6 dB Bandwidth	Note 1
-	2.1049	99% Occupied Bandwidth	Note 1
-	15.247(e)	Power Spectral Density	Note 1
-	15.247(d)	Conducted Spurious Emissions and Band Edges	Note 1
5.1.3	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note:

1. Refer to module report for the details.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2023-10-13

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 662911 D01 Multiple Transmitter Output v02r01

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Tablet PC. It contains a WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Tablet PC
Type Identification	F110,F110-501
FCC ID	QYLAX201NG

Technical Specification of EUT

Item	EUT information
Operating Frequency	2412 MHz ~ 2462 MHz
Channel Spacing	5 MHz
Channel Number	802.11b/g/n HT20/ax HE20: 11 802.11n HT40/ax HE40: 7
Data Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7 802.11ax HE20/40: up to MCS11
Operation Voltage	120 Vac
Modulation	802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g, 802.11n HT20, 802.11n HT40: OFDM-BPSK, QPSK, 16QAM, 64QAM 802.11ax HE20, 802.11ax HE40: OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Maximum Output Power (mW)	802.11b: 205.12 802.11g: 755.09 802.11n HT20: 680.70 802.11n HT40: 302.0 802.11ax HE20: 389.05 802.11ax HE40: 381.07
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

Note:

1. All models are listed as below.

Main Model	Series Model	Difference
F110	F110-501	The purpose of model naming differents is for market segmentation purpose only.

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

Mode	Channel	Frequency	Power Setting		
		(MHz)	Ant 1	Ant 2	Ant 1 + Ant 2
802.11b	1	2412	19.75	19.625	--
	6	2437	21.25	19.875	--
	11	2462	20	19.75	--
	12	2467	19	19.375	--
	13	2472	19.375	19.25	--
802.11g	1	2412	17.25	17.25	--
	6	2437	21.25	19.625	--
	11	2462	17.5	17.5	--
	12	2467	15.125	15.625	--
	13	2472	12.75	12.5	--
802.11n HT20	1	2412	17.125	17.375	14.375/14.75
	6	2437	20.75	19.625	17.375/17.375
	11	2462	16.5	16.375	14.75/14.25
	12	2467	15.375	15.875	13.125/13.125
	13	2472	13.25	12.125	10/10
802.11n HT40	3	2422	17.125	16.875	14.5/14.5
	6	2437	16.25	16.625	14.5/14.5
	9	2452	16.25	16.375	13.75/13.75
	10	2457	12.625	12.75	9.5/10
	11	2462	12.75	12.75	12.125/12.125
802.11ax HE20	1	2412	17.125	17.625	16.25/16.5
	6	2437	20.5	19.75	17.25/17.5
	11	2462	16.25	16.25	14.875/14
	12	2467	15.5	15.75	13/13
	13	2472	12.25	10.75	10/10.75
802.11ax HE40	3	2422	16.625	16.876	15/14.875
	6	2437	16.25	16.375	15/15
	9	2452	16.25	16.375	14/14.25
	10	2457	12.25	12.875	10.25/10.875
	11	2462	13.25	12.875	11/11

Partial RU						
Mode	Channel	Frequency (MHz)	RU	Power Setting		
			Configuration	Ant 1	Ant 2	Ant 1 + Ant 2
802.11ax HE20	1	2412	26/0	17.625	18	16.625 / 16.875
			52/37	17.25	18	16.375 / 16.875
			106/53	17.5	17.875	16.625 / 16.625
	13	2472	26/8	4.875	4	1 / 1.75
			52/40	6.875	6.25	5 / 4.25
			106/54	8.375	10	7.75 / 6
802.11ax HE40	3	2422	242/61	17	17.25	14.875 / 14.625
	11	2462	242/62	2.75	2.5	1.75 / 1.25

4.2 Carrier Frequency and Channel

802.11b, 802.11g, 802.11n HT20, 802.11ax HE20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

802.11n HT40 and 802.11ax HE40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	8	2447
4	2427	9	2452
5	2432	10	2457
6	2437	11	2462
7	2442		

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	DRTU
---------------	------

The samples were used as follows:

A003570410-001

A003570410-003

Full test was applied on all test modes, but only worst case was shown.

Modulation Mode	Tx Function
802.11b	1TX (SISO)
802.11g	1TX (SISO)
802.11n HT20	2TX (MIMO)
802.11n HT40	2TX (MIMO)
802.11ax HE20	2TX (MIMO)
802.11ax HE40	2TX (MIMO)

EUT Configure Mode	Applicable To				Description
	RF Output Power	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
Ant 1	√	√	√	√	-
Ant 2	√	√	-	-	-
Ant 1 + 2	√	√	-	-	-

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on Z-plane.
- "-" means no effect.

RF Output Power

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
SISO				
Ant 1, Ant 2	802.11b	1 to 13	1, 6, 11, 12, 13	1.0
	802.11g	1 to 13	1, 6, 11, 12, 13	6.0
	802.11n HT20	1 to 13	1, 6, 11, 12, 13	MCS0
	802.11n HT40	3 to 11	3, 6, 9, 10, 11	MCS0
	802.11ax HE20	1 to 13	1, 6, 11, 12, 13	NSS1 MCS0
	802.11ax HE40	3 to 11	3, 6, 9, 10, 11	NSS1 MCS0
MIMO				
Ant 1 + Ant 2	802.11n HT20	1 to 13	1, 6, 11, 12, 13	MCS8
	802.11n HT40	3 to 11	3, 6, 9, 10, 11	MCS8
	802.11ax HE20	1 to 13	1, 6, 11, 12, 13	NSS1 MCS0
	802.11ax HE40	3 to 11	3, 6, 9, 10, 11	NSS1 MCS0
Partial RU Configuration-SISO				
Ant 1, Ant 2	802.11ax HE20	1 to 13	1, 13	NSS1 MCS0
	802.11ax HE40	3 to 11	3, 11	NSS1 MCS0
Partial RU Configuration-MIMO				
Ant 1 + Ant 2	802.11ax HE20	1 to 13	1, 13	HE0
	802.11ax HE40	3 to 11	3, 11	HE0

Radiated Spurious Emissions (Above 1 GHz)

- Pre-Scan full test was applied on all test modes, but only worst case was shown.
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Data Rate (Mbps)
Ant 1	802.11b	1 to 13	1	1.0
Ant 1	802.11g	1 to 13	11	6.0
Ant 2	802.11ax HE20	1 to 13	6	NSS1 MCS0
Ant 1 + Ant 2	802.11ax HE40	3 to 11	3	NSS1 MCS0

Radiated Spurious Emissions (Below 1 GHz)

- Pre-Scan full test was applied on all test modes, but only worst case was shown.
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Data Rate (Mbps)
Ant 1	802.11b	1 to 13	1	1.0

Mains Conducted Emission

- Pre-Scan full test was applied on all test modes, but only worst case was shown.
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
Ant 1	802.11b	1 to 13	1	1.0

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	23.3-24.1 °C	62-68 %	Andy Chen & Zeke Wang
Radiated Spurious Emissions above 1 GHz	22.6-24.5 °C	52-54 %	Roger Liao
Radiated Spurious Emissions below 1 GHz	22.6-24.5 °C	52-54 %	Roger Liao
Mains Conducted Emission	19.1-25.9 °C	50.2-58.9 %	Roger Liao

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

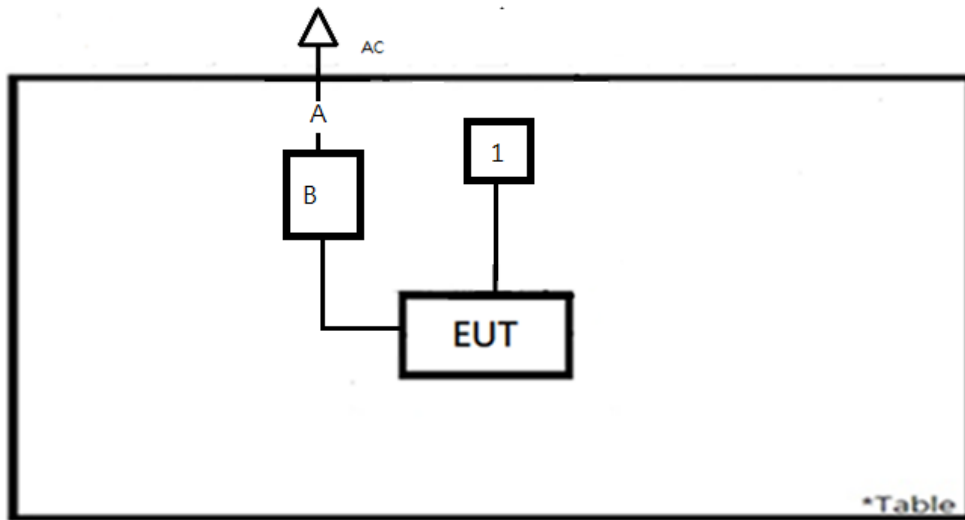
No.	Product	Brand	Model	Description
B	Switching Power Adapter	FSP	FSP090-ABBN3	I/P: 100-240 Vac, 50/60 Hz, 1.2 A O/P: 19 Vdc, 4.74 A A003570410-008

Support Unit

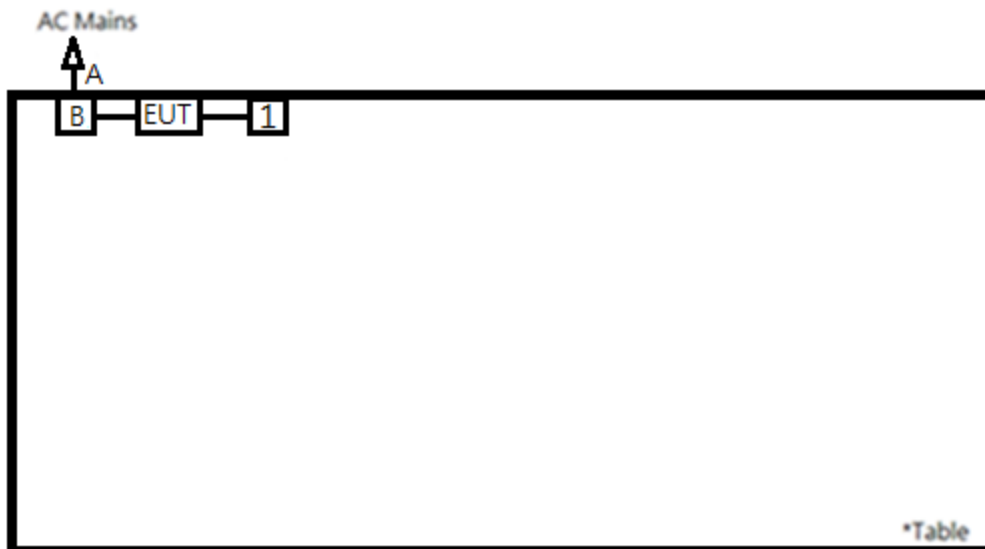
Radiated and Mains Conducted Tests								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	Power cord	Getac	N/A	N/A	NO	NO	180	--
1	Headset	TUV	N/A	N/A	NO	NO	--	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions Mode>

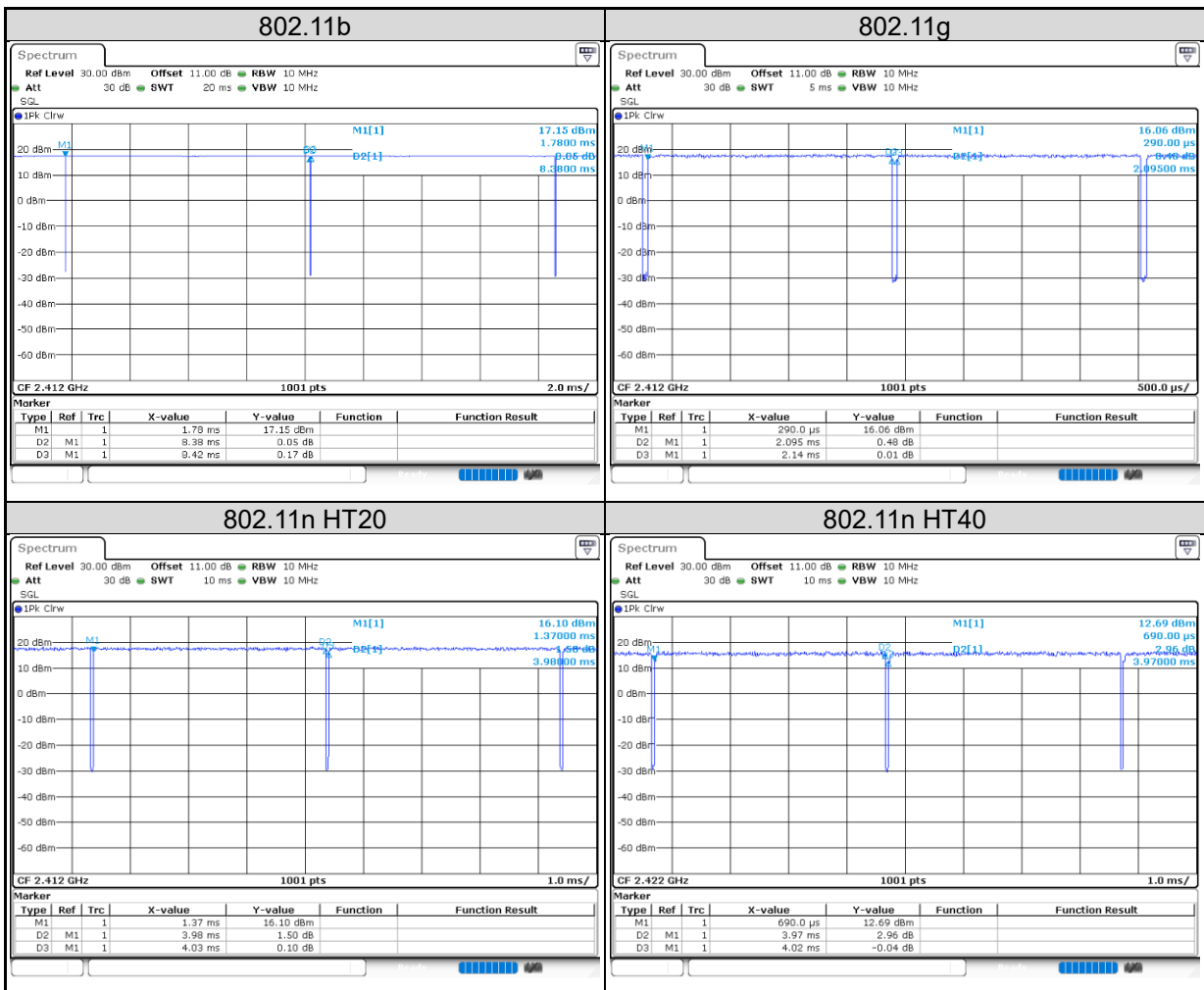


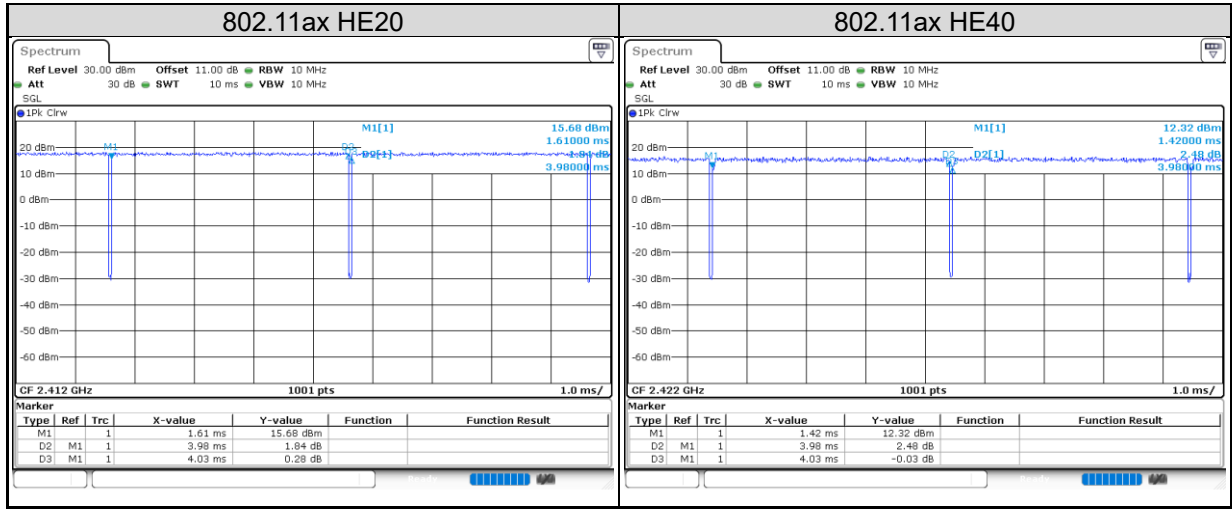
<Mains Conducted Emission Mode>



4.6 Duty Cycle of Test Signal

Mode	On + Off Time (ms)	On Time (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	8.42	8.38	99.52	0.02
802.11g	2.14	2.10	97.90	0.09
802.11n HT20	4.03	3.98	98.76	0.05
802.11n HT40	4.02	3.97	98.76	0.05
802.11ax HE20	4.03	3.98	98.76	0.05
802.11ax HE40	4.03	3.98	98.76	0.05





5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Antenna No.	Antenna Type	Antenna Gain (dBi)
1	PIFA Antenna	1.83
2	PIFA Antenna	1.86

Refer to EUT photo for details.

5.1.2 Peak Output Power

Limit 1 watt (30 dBm)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2023/3/17	2024/3/16	2023/9/22	2023/10/6
Power Sensor	Anritsu	MA2411B	1725269	2023/3/17	2024/3/16	2023/9/22	2023/10/6

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Test Result
Peak Output Power

Antenna	Test Mode	Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
				(dBm)	(mW)	
SISO Antenna 1	802.11b	1	2412	21.64	145.88	30
		6	2437	23.12	205.12	30
		11	2462	21.93	155.96	30
		12	2467	20.87	122.18	30
		13	2472	21.21	132.13	30
	802.11g	1	2412	24.58	287.08	30
		6	2437	28.78	755.09	30
		11	2462	24.96	313.33	30
		12	2467	22.81	190.99	30
		13	2472	19.90	97.72	30
	802.11n HT20	1	2412	24.61	289.07	30
		6	2437	28.33	680.77	30
		11	2462	24.01	251.77	30
		12	2467	22.58	181.13	30
		13	2472	20.44	110.66	30
	802.11n HT40	3	2422	24.80	302.00	30
		6	2437	23.87	243.78	30
		9	2452	23.79	239.33	30
		10	2457	20.07	101.62	30
		11	2462	20.01	100.23	30
	802.11ax HE20	1	2412	25.90	389.05	30
		6	2437	23.78	238.78	30
		11	2462	25.01	316.96	30
		12	2467	24.76	299.23	30
		13	2472	21.47	140.28	30
	802.11ax HE40	3	2422	25.81	381.07	30
		6	2437	25.27	336.51	30
		9	2452	25.14	326.59	30
		10	2457	21.23	132.74	30
		11	2462	22.40	173.78	30
Partial RU- SISO Antenna 1	802.11ax HE20	1	2412	20.99	125.60	30
				20.82	120.78	30
				20.65	116.14	30
	802.11ax HE20	13	2472	12.69	18.58	30
				16.66	46.34	30
				18.24	66.68	30
	802.11ax HE40	3	2422	21.59	144.21	30
11		2462	11.59	14.42	30	

Antenna	Test Mode	Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
				(dBm)	(mW)	
SISO Antenna 2	802.11b	1	2412	21.62	145.21	30
		6	2437	21.61	144.88	30
		11	2462	21.53	142.23	30
		12	2467	21.08	128.23	30
		13	2472	20.35	108.39	30
	802.11g	1	2412	24.08	255.86	30
		6	2437	21.52	141.91	30
		11	2462	24.19	262.42	30
		12	2467	22.33	171.00	30
		13	2472	19.07	80.72	30
	802.11n HT20	1	2412	24.35	272.27	30
		6	2437	23.23	210.38	30
		11	2462	23.33	215.28	30
		12	2467	22.44	175.39	30
		13	2472	18.51	70.96	30
	802.11n HT40	3	2422	23.73	236.05	30
		6	2437	23.44	220.80	30
		9	2452	23.03	200.91	30
		10	2457	19.72	93.76	30
		11	2462	19.32	85.51	30
	802.11ax HE20	1	2412	25.61	363.92	30
		6	2437	23.45	221.31	30
		11	2462	24.23	264.85	30
		12	2467	23.89	244.91	30
		13	2472	19.11	81.47	30
	802.11ax HE40	3	2422	25.08	322.11	30
		6	2437	24.62	289.73	30
		9	2452	24.53	283.79	30
		10	2457	21.10	128.82	30
		11	2462	21.23	132.74	30
Partial RU-SISO Antenna 2	802.11ax HE20	1	2412	20.69	117.22	30
				21.34	136.14	30
				21.12	129.42	30
	802.11ax HE20	13	2472	12.47	17.66	30
				16.18	41.50	30
				19.91	97.95	30
	802.11ax HE40	3	2422	21.35	136.46	30
				11	2462	12.34

Antenna	Test Mode	Channel	Channel Frequency (MHz)	Peak Output Power (dBm)		Total Power		Limit (dBm)
				Ant 1	Ant 2	(dBm)	(mW)	
MIMO Antenna	802.11n HT20	1	2412	18.96	19.25	22.12	162.84	30.00
		6	2437	21.44	21.75	24.61	288.94	30.00
		11	2462	18.78	17.79	21.32	135.63	30.00
		12	2467	16.70	16.46	19.59	91.03	30.00
		13	2472	17.64	17.81	20.74	118.47	30.00
	802.11n HT40	3	2422	19.14	18.70	21.94	156.17	30.00
		6	2437	18.36	18.79	21.59	144.23	30.00
		9	2452	17.77	17.53	20.66	116.47	30.00
		10	2457	16.21	16.74	19.49	88.99	30.00
	802.11ax HE20	11	2462	20.73	19.34	23.10	204.21	30.00
		1	2412	20.02	19.91	22.98	198.41	30.00
		6	2437	20.98	21.00	24.00	251.21	30.00
		11	2462	18.90	17.58	21.30	134.90	30.00
		12	2467	16.47	17.12	19.82	95.88	30.00
	802.11ax HE40	13	2472	16.87	17.82	20.38	109.17	30.00
		3	2422	19.57	18.67	22.15	164.19	30.00
		6	2437	19.16	19.22	22.20	165.97	30.00
9		2452	17.75	17.87	20.82	120.80	30.00	
10		2457	15.76	17.95	20.00	100.04	30.00	
Partial RU-MIMO Antenna	802.11ax HE20	1	2412	18.69	20.85	22.91	195.58	30.00
				19.63	19.49	22.57	180.75	30.00
				19.57	19.82	22.71	186.51	30.00
	802.11ax HE20	13	2472	4.12	5.18	7.69	5.88	30.00
				8.29	7.29	10.83	12.10	30.00
				10.81	8.86	12.95	19.74	30.00
	802.11ax HE40	3	2422	18.02	17.23	20.65	116.23	30.00
11				2462	5.19	3.15	7.30	5.37

Average Power

Antenna	Test Mode	Channel	Channel Frequency (MHz)	Average Power	
				(dBm)	(mW)
SISO Antenna 1	802.11b	1	2412	19.48	88.72
		6	2437	20.98	125.31
		11	2462	19.77	94.84
		12	2467	18.50	70.79
		13	2472	19.00	79.43
	802.11g	1	2412	16.99	50.00
		6	2437	20.93	123.88
		11	2462	17.21	52.60
		12	2467	14.94	31.19
		13	2472	12.42	17.46
	802.11n HT20	1	2412	16.89	48.87
		6	2437	20.39	109.40
		11	2462	16.23	41.98
		12	2467	14.98	31.48
		13	2472	12.93	19.63
	802.11n HT40	3	2422	16.95	49.55
		6	2437	15.90	38.90
		9	2452	15.86	38.55
		10	2457	12.40	17.38
		11	2462	12.37	17.26
	802.11ax HE20	1	2412	16.87	48.64
		6	2437	19.88	97.27
		11	2462	15.93	39.17
		12	2467	15.30	33.88
		13	2472	11.99	15.81
	802.11ax HE40	3	2422	16.43	43.95
		6	2437	15.90	38.90
		9	2452	15.86	38.55
10		2457	11.99	15.81	
11		2462	12.94	19.68	
Partial RU-SISO Antenna 1	802.11ax HE20	1	2412	16.86	48.53
				16.81	47.97
				16.80	47.86
	802.11ax HE20	13	2472	3.84	2.42
				6.27	4.24
				8.02	6.34
	802.11ax HE40	3	2422	16.40	43.65
				11	2462

Antenna	Test Mode	Channel	Channel Frequency (MHz)	Averger Power	
				(dBm)	(mW)
SISO Antenna 2	802.11b	1	2412	19.37	86.50
		6	2437	19.40	87.10
		11	2462	19.29	84.92
		12	2467	18.97	78.89
		13	2472	18.84	76.56
	802.11g	1	2412	16.92	49.20
		6	2437	19.34	85.90
		11	2462	17.18	52.24
		12	2467	15.33	34.12
		13	2472	12.28	16.90
	802.11n HT20	1	2412	16.86	48.53
		6	2437	19.33	85.70
		11	2462	15.89	38.82
		12	2467	15.38	34.51
		13	2472	11.72	14.86
	802.11n HT40	3	2422	16.49	44.57
		6	2437	16.24	42.07
		9	2452	15.93	39.17
		10	2457	12.34	17.14
		11	2462	12.44	17.54
	802.11ax HE20	1	2412	17.21	52.60
		6	2437	19.42	87.50
		11	2462	15.90	38.90
		12	2467	15.35	34.28
		13	2472	10.43	11.04
	802.11ax HE40	3	2422	16.46	44.26
		6	2437	15.85	38.46
		9	2452	15.89	38.82
10		2457	12.37	17.26	
11		2462	12.40	17.38	
Partial RU-SISO Antenna 2	802.11ax HE20	1	2412	17.17	52.12
				17.17	52.12
				17.11	51.40
	802.11ax HE20	13	2472	3.53	2.25
				5.97	3.95
				9.80	9.55
	802.11ax HE40	3	2422	16.42	43.85
				11	2462

Antenna	Test Mode	Channel	Channel Frequency (MHz)	Average Power (dBm)		Total Power	
				Ant 1	Ant 2	(dBm)	(mW)
MIMO Antenna 1+2	802.11n HT20	1	2412	13.95	14.00	16.99	49.95
		6	2437	17.15	17.23	20.20	104.72
		11	2462	14.79	14.06	17.45	55.60
		12	2467	12.65	12.75	15.71	37.24
		13	2472	9.91	10.00	12.97	19.79
	802.11n HT40	3	2422	14.24	14.44	17.35	54.34
		6	2437	14.02	13.92	16.98	49.90
		9	2452	13.40	13.55	16.49	44.52
		10	2457	9.53	9.99	12.78	18.95
		11	2462	11.71	11.94	14.84	30.46
	802.11ax HE20	1	2412	15.71	15.88	18.81	75.96
		6	2437	16.69	16.95	19.83	96.21
		11	2462	14.37	13.47	16.95	49.59
		12	2467	12.24	12.53	15.40	34.66
		13	2472	9.35	10.45	12.95	19.70
	802.11ax HE40	3	2422	13.76	14.08	16.93	49.35
		6	2437	14.25	13.97	17.12	51.55
		9	2452	13.28	13.56	16.43	43.98
		10	2457	9.58	10.72	13.20	20.88
		11	2462	10.19	10.59	13.40	21.90
Partial RU- MIMO Antenna 1+2	802.11ax HE20	1	2412	15.68	15.79	18.75	74.91
				15.52	15.94	18.75	74.91
				15.72	15.85	18.80	75.78
	13	2472	0.11	1.30	3.76	2.37	
			4.22	3.41	6.84	4.84	
			6.83	4.97	9.01	7.96	
	802.11ax HE40	3	2422	14.05	13.60	16.84	48.32
		11	2462	1.14	-0.74	3.31	2.14

5.1.3 Radiated Spurious Emissions and Band Edges

Limit

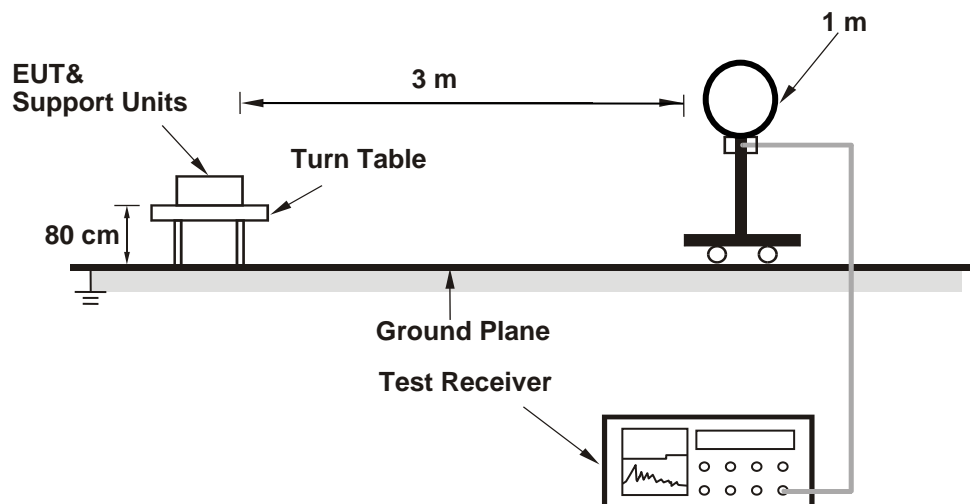
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

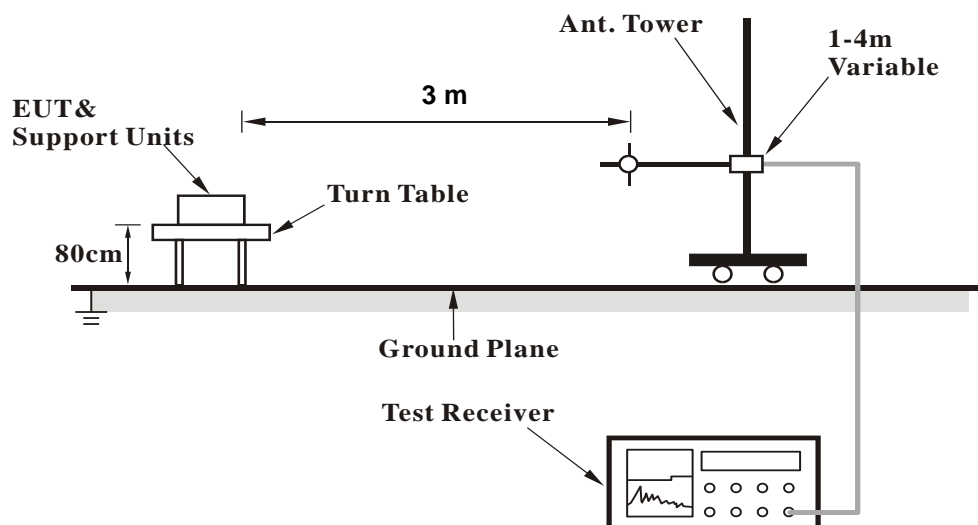
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

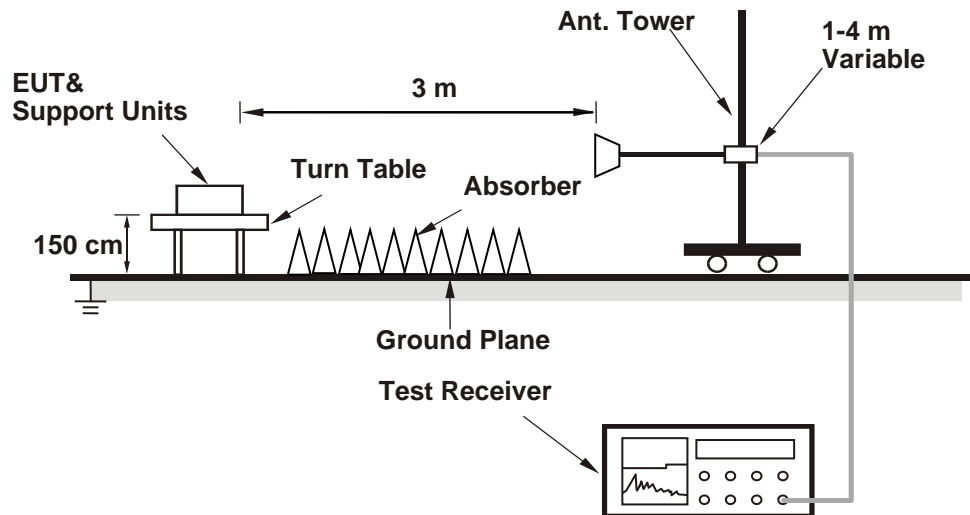
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Test Date: 2023/9/26 ~ 2023/10/4

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1GHz					
Signal Analyzer	R&S	FSV40	101509	2023/4/26	2024/4/24
Horn Antenna	ETS-Lindgren	3117	00218929	2022/11/17	2023/11/16
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2023/5/4	2024/5/2
HF-AMP + AC source	EMCI	EMC051845SE	980635	2023/2/16	2024/2/15
HF-AMP + AC source	EMCI	EMC051845SE	980656	2023/1/16	2024/1/15
30MHz-1GHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2023/3/31	2024/3/29
LF-AMP	Agilent	8447D	2944A107722	2023/3/22	2024/3/20
Below 1GHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2023/1/4	2024/1/3

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

5.2 Mains Emission

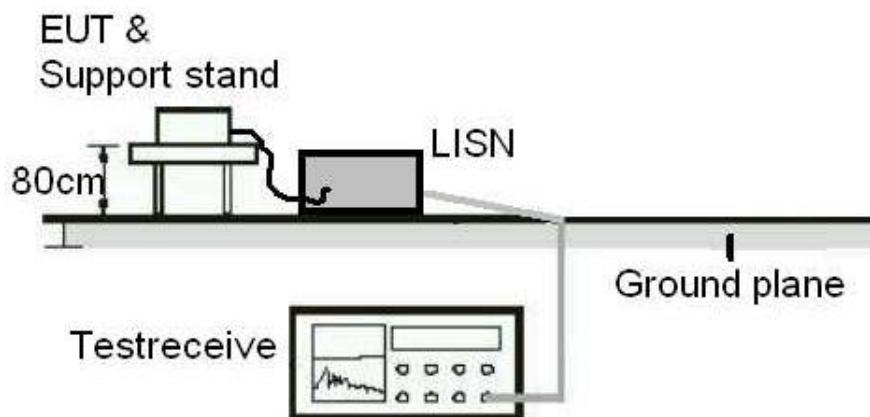
5.2.1 Mains Conducted Emission

Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Test Date: 2023/9/27

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2022/10/17	2023/10/16
EMI Test Receiver	R&S	ESCI	101094	2022/11/24	2023/11/23

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

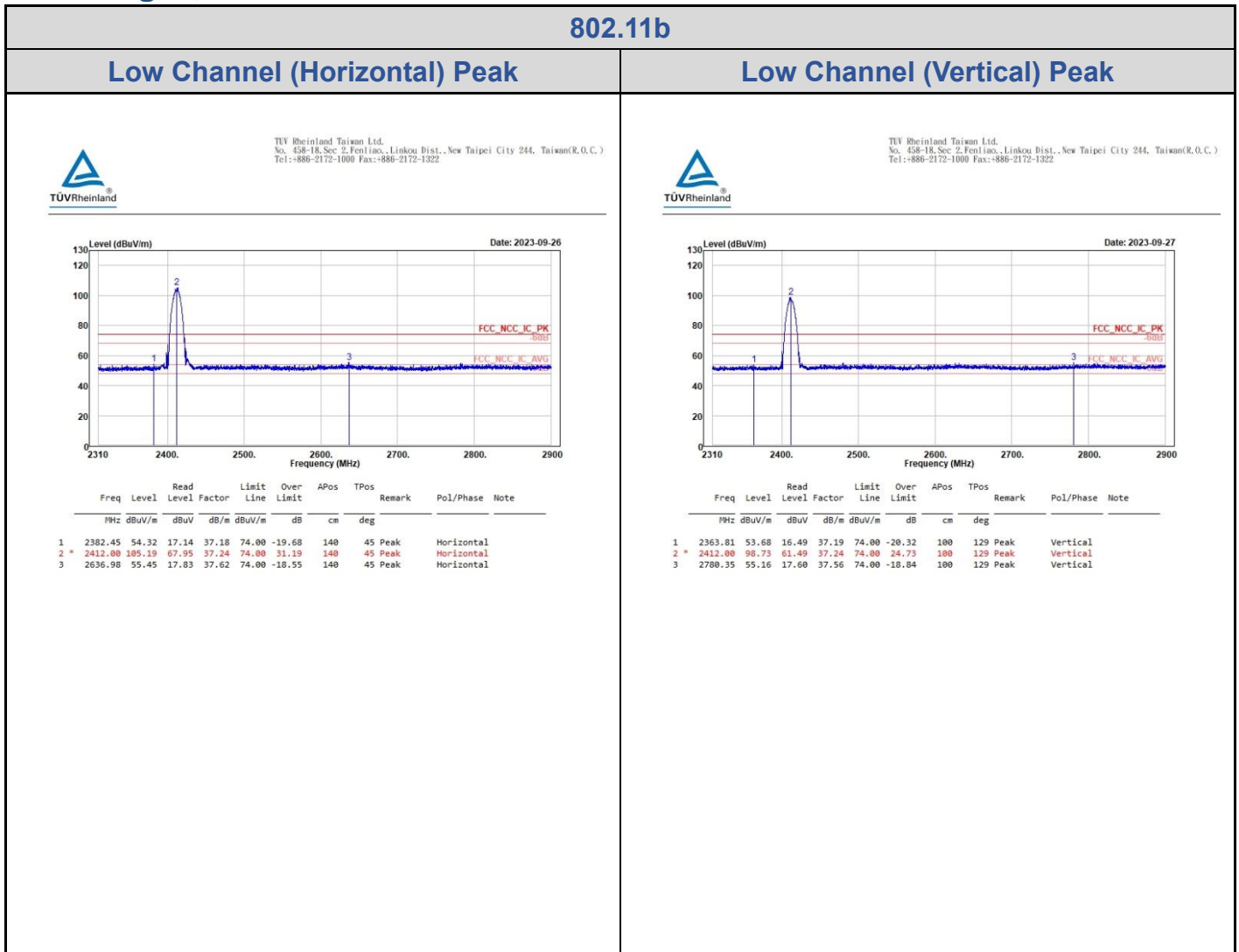
Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

<Ant 1>

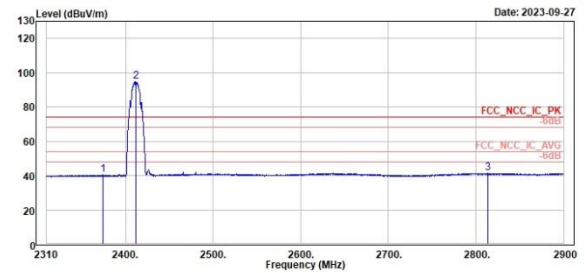
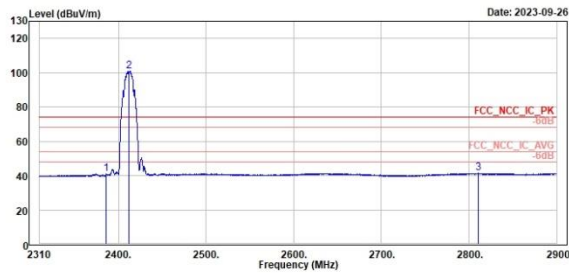
Band Edges, 2.31GHz ~ 2.9GHz



802.11b

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2386.23	49.97	3.79	37.18	54.00	-13.03	140	45 Average	Horizontal
2 *	2412.00	101.07	63.83	37.24	54.00	47.07	140	45 Average	Horizontal
3	2818.32	41.29	3.54	37.75	54.00	-12.71	140	45 Average	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2374.19	49.34	3.16	37.18	54.00	-13.66	100	129 Average	Vertical
2 *	2412.00	94.78	57.54	37.24	54.00	40.78	100	129 Average	Vertical
3	2813.03	41.38	3.63	37.75	54.00	-12.62	100	129 Average	Vertical

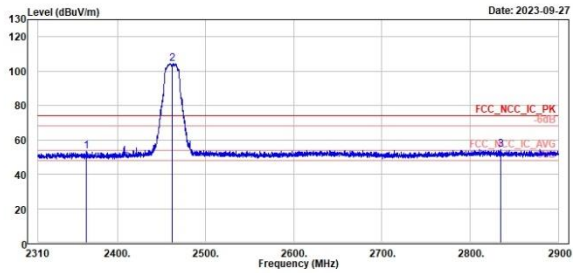
802.11g

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



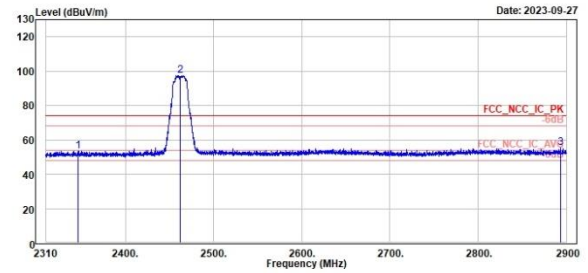
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2365.22	53.57	16.37	37.20	74.00	-20.43	288	50	Peak	Horizontal	
2	2462.00	104.33	66.81	37.52	74.00	30.33	288	50	Peak	Horizontal	
3	2834.98	54.60	16.83	37.77	74.00	-19.40	288	50	Peak	Horizontal	



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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2346.82	53.58	16.40	37.18	74.00	-20.42	100	146	Peak	Vertical	
2	2462.00	97.52	60.00	37.52	74.00	23.52	100	146	Peak	Vertical	
3	2893.16	55.17	17.26	37.91	74.00	-18.83	100	146	Peak	Vertical	

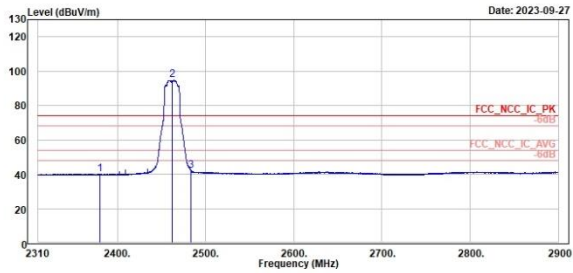
802.11g

High Channel (Horizontal) Average

High Channel (Vertical) Average



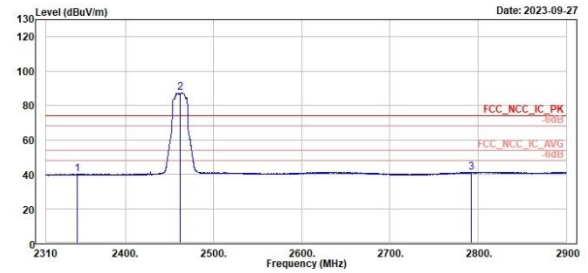
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1	2	3							
MHz	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2380.09	40.05	2.87	37.18	54.00	-13.95	288	50 Average	Horizontal	
2462.00	94.67	57.15	37.52	54.00	40.67	288	50 Average	Horizontal	
2483.58	42.18	4.64	37.54	54.00	-11.82	288	50 Average	Horizontal	



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1	2	3							
MHz	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2345.64	40.08	2.90	37.18	54.00	-13.92	100	146 Average	Vertical	
2462.00	87.26	49.74	37.52	54.00	33.26	100	146 Average	Vertical	
2791.79	41.23	3.57	37.66	54.00	-12.77	100	146 Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

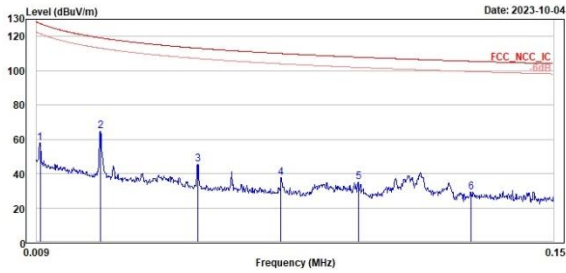
802.11b

Low Channel 9kHz~150kHz(Open)

Low Channel 150kHz~30MHz(Open)



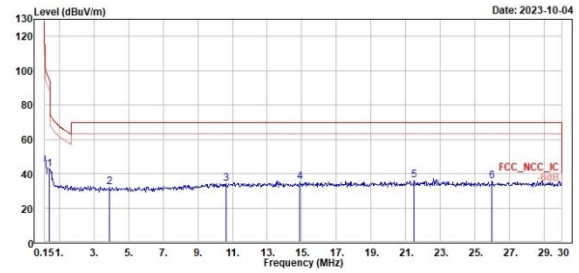
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.01	57.74	48.02	17.72	127.50	-69.85	100	308	Peak	Open	
2	0.03	64.91	45.96	18.95	119.13	-54.22	100	42	Peak	Open	
3	0.05	45.49	26.45	19.04	113.11	-67.62	100	258	Peak	Open	
4	0.08	37.52	19.02	18.50	110.01	-72.49	100	303	Peak	Open	
5	0.10	35.27	17.27	18.00	107.89	-72.62	100	164	Peak	Open	
6	0.13	29.34	11.31	18.03	105.49	-76.15	100	341	Peak	Open	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.45	42.70	23.88	18.82	94.57	-51.87	100	322	Peak	Open	
2	3.91	32.08	12.49	19.59	69.50	-37.42	100	282	Peak	Open	
3	10.63	34.32	12.69	21.63	69.50	-35.18	100	73	Peak	Open	
4	14.90	34.98	13.05	21.93	69.50	-34.52	100	342	Peak	Open	
5	21.49	35.84	13.53	22.31	69.50	-33.66	100	312	Peak	Open	
6	25.97	35.42	13.07	22.35	69.50	-34.08	100	287	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

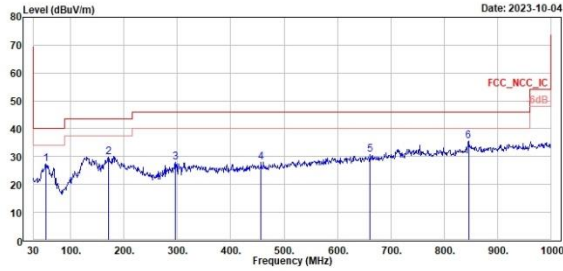
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



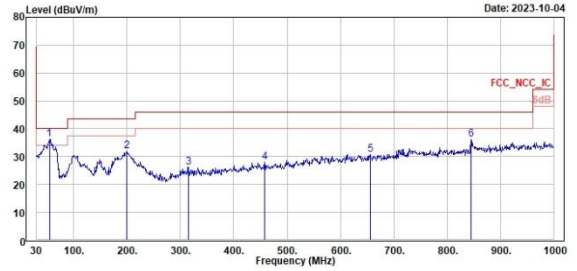
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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	53.28	27.48	33.14	-5.66	48.00	-12.52	200	275 Peak	Horizontal	
2	178.65	29.67	35.60	-5.93	43.50	-13.83	200	265 Peak	Horizontal	
3	295.78	27.84	32.77	-4.93	46.00	-18.16	100	25 Peak	Horizontal	
4	456.80	28.02	30.11	-2.09	46.00	-17.98	200	338 Peak	Horizontal	
5	661.47	30.71	29.43	1.28	46.00	-15.29	200	316 Peak	Horizontal	
6	845.77	35.72	31.62	4.10	46.00	-10.28	200	247 Peak	Horizontal	



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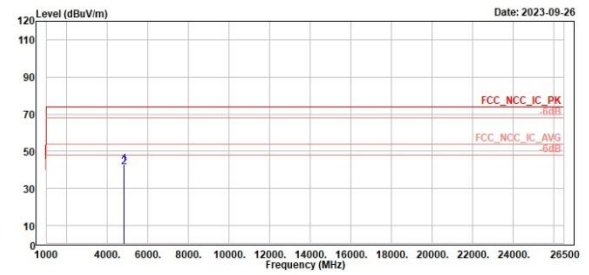
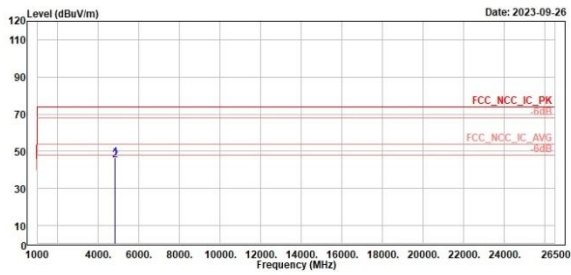
Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	54.25	36.25	41.99	-5.74	48.00	-3.75	100	242 Peak	Vertical	
2	199.75	31.83	48.58	-8.67	43.50	-11.67	100	79 Peak	Vertical	
3	315.18	26.38	38.71	-4.41	46.00	-19.70	131	360 Peak	Vertical	
4	457.77	27.88	29.94	-2.06	46.00	-18.12	200	171 Peak	Vertical	
5	655.65	38.76	29.65	1.11	46.00	-15.24	100	343 Peak	Vertical	
6	844.80	36.24	32.12	4.12	46.00	-9.76	100	37 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



1	4824.00	46.51	55.52	-9.01	74.00	-27.49	300	347	Peak	Horizontal
2	4824.00	45.34	54.35	-9.01	54.00	-8.66	300	347	Average	Horizontal

1	4824.00	42.89	51.90	-9.01	74.00	-31.11	300	100	Peak	Vertical
2	4824.00 <th>41.37</th> <th>50.38</th> <th>-9.01</th> <th>54.00</th> <th>-12.63</th> <th>300</th> <th>100</th> <th>Average</th> <th>Vertical</th>	41.37	50.38	-9.01	54.00	-12.63	300	100	Average	Vertical

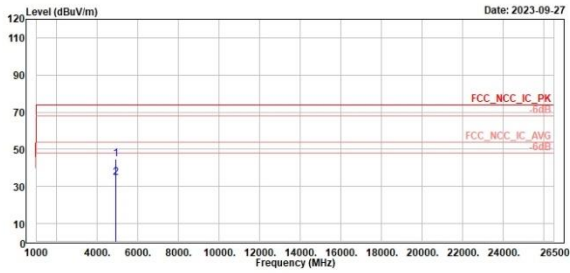
802.11g

High Channel (Horizontal)

High Channel (Vertical)



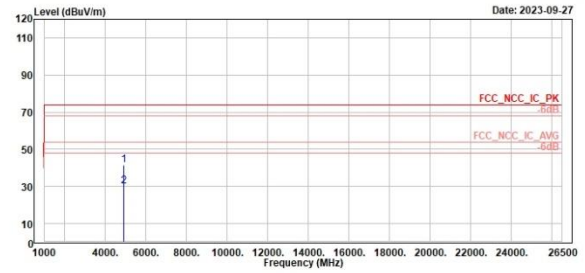
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1	2								
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
4924.00	44.50	53.45	-8.95	74.00	-29.50	386	360	Peak	Horizontal
4924.00	34.65	43.60	-8.95	54.00	-19.35	386	360	Average	Horizontal

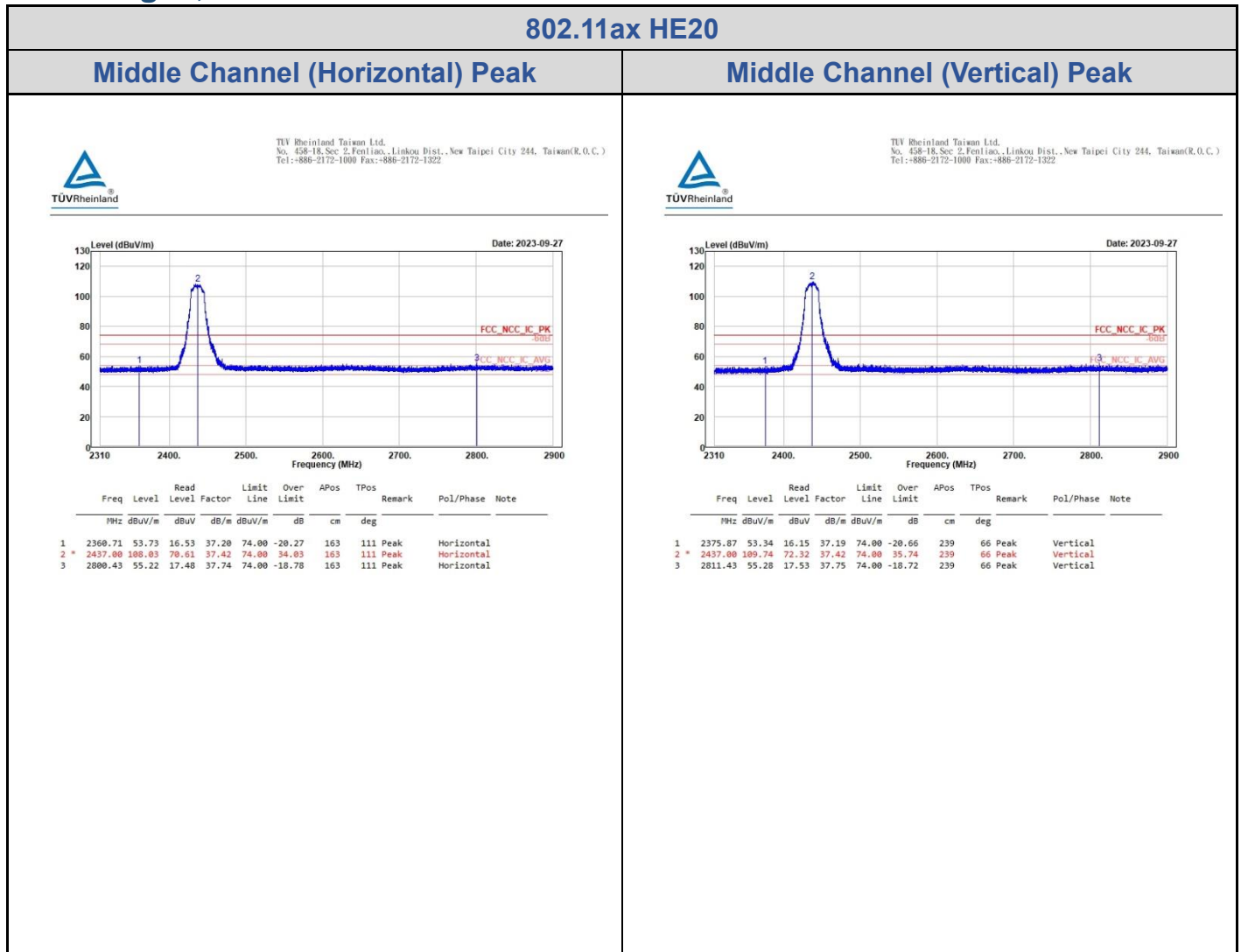


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1	2								
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
4924.00	41.64	50.59	-8.95	74.00	-32.36	180	45	Peak	Vertical
4924.00	30.21	39.16	-8.95	54.00	-23.79	180	45	Average	Vertical

<Ant 2>
Band Edges, 2.31GHz ~ 2.9GHz

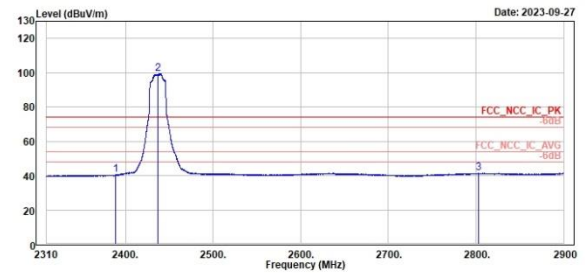
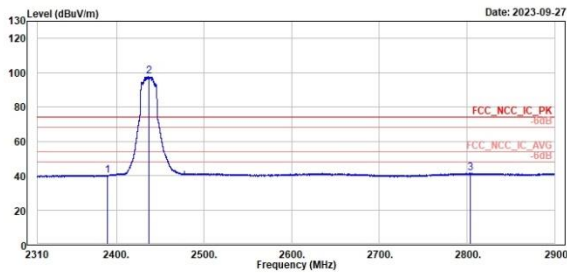
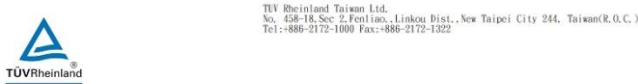


Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11ax HE20

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.79	49.22	3.05	37.17	54.00	-13.78	163	111 Average	Horizontal	
2 *	2437.00	97.63	60.21	37.42	54.00	43.63	163	111 Average	Horizontal	
3	2894.07	41.46	3.72	37.74	54.00	-12.54	163	111 Average	Horizontal	

Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.94	49.35	3.18	37.17	54.00	-13.65	239	66 Average	Vertical	
2 *	2437.00	99.42	62.00	37.42	54.00	45.42	239	66 Average	Vertical	
3	2892.65	41.35	3.61	37.74	54.00	-12.65	239	66 Average	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

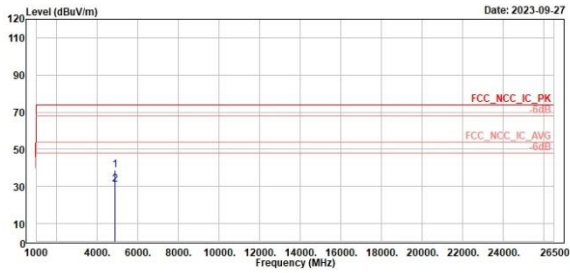
802.11ax HE20

Middle Channel (Horizontal)

Middle Channel (Vertical)



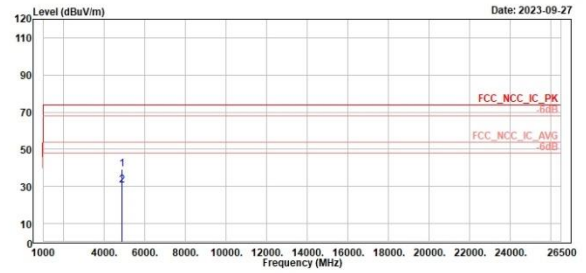
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Read	Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
Freq	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4874.00	38.58	47.61	-9.03	74.00	-35.42	300	8 Peak	Horizontal
2	4874.00	31.19	40.22	-9.03	54.00	-22.81	300	8 Average	Horizontal



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Read	Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
Freq	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4874.00	39.19	48.22	-9.03	74.00	-34.81	300	188 Peak	Vertical
2	4874.00	30.47	39.50	-9.03	54.00	-23.53	300	188 Average	Vertical

<Ant 1+2>
Band Edges, 2.31GHz ~ 2.9GHz

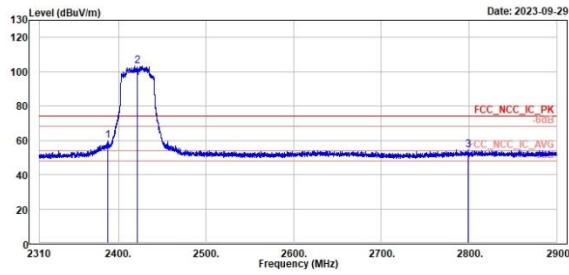
802.11ax HE40

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



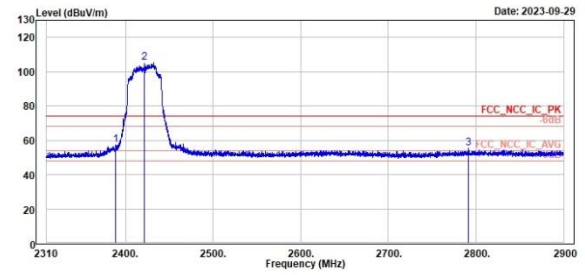
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2387.64	59.91	22.74	37.17	74.00	-14.09	149	232	Peak	Horizontal	
2 *	2422.00	103.28	65.97	37.31	74.00	29.28	149	232	Peak	Horizontal	
3	2798.52	54.41	16.69	37.72	74.00	-19.59	149	232	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2388.82	57.35	20.18	37.17	74.00	-16.65	330	271	Peak	Vertical	
2 *	2422.00	105.14	67.83	37.31	74.00	31.14	330	271	Peak	Vertical	
3	2791.09	55.33	17.67	37.66	74.00	-18.67	330	271	Peak	Vertical	

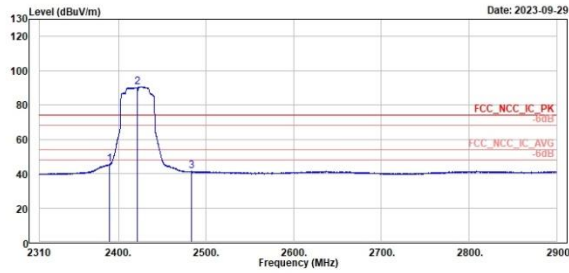
802.11ax HE40

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



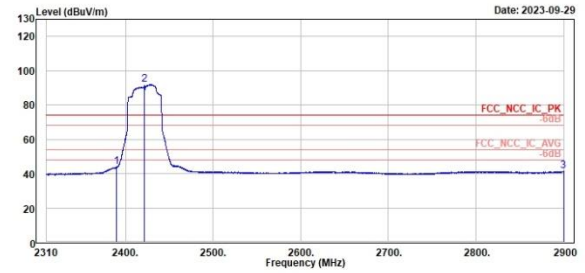
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1	2	3
2398.00	2422.00	2483.70
45.25	90.70	41.33
8.00	53.39	3.79
37.17	37.31	37.54
54.00	54.00	54.00
-8.75	36.70	-12.67
149	149	149
232	232	232
Average	Average	Average
Horizontal	Horizontal	Horizontal



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1	2	3
2389.77	2422.00	2899.76
43.75	91.89	41.43
6.58	54.38	3.50
37.17	37.31	37.93
54.00	54.00	54.00
-10.25	37.89	-12.57
330	330	330
271	271	271
Average	Average	Average
Vertical	Vertical	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

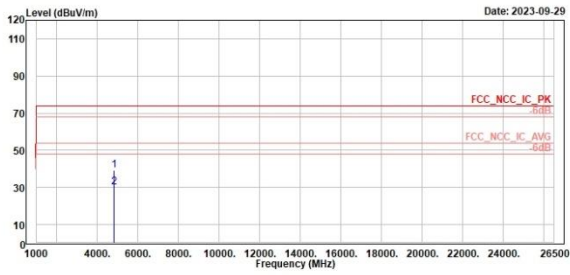
802.11ax HE40

Low Channel (Horizontal)

Low Channel (Vertical)



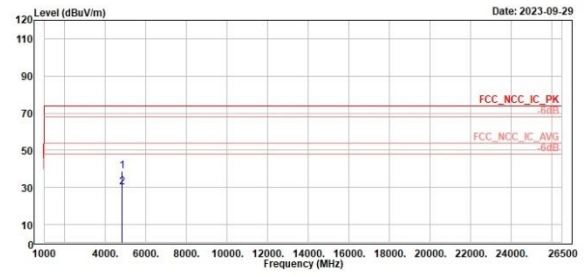
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Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Level	Line	Limit					
Factor							
dBuV	dBuV/m	dB	cm	deg			
39.06	48.06	-9.00	74.00	-34.94	380	215 Peak	Horizontal
30.34	39.34	-9.00	54.00	-23.66	380	215 Average	Horizontal



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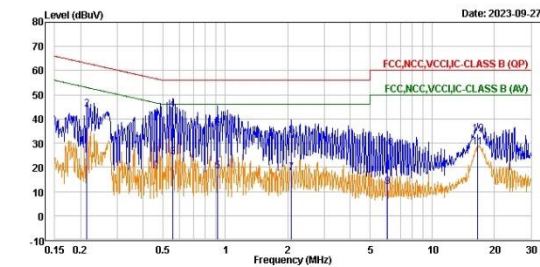
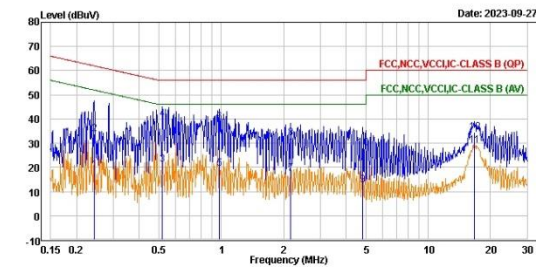
Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Level	Line	Limit					
Factor							
dBuV	dBuV/m	dB	cm	deg			
30.71	47.71	-9.00	74.00	-35.29	284	369 Peak	Vertical
30.08	39.08	-9.00	54.00	-23.92	284	369 Average	Vertical

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)

(Neutral)



Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.24	18.77	9.15	9.62	51.98	-33.21	Average	line1		
2	0.24	33.96	24.34	9.62	61.98	-28.02	QP	line1		
3	0.52	21.28	11.65	9.63	46.00	-24.72	Average	line1		
4	0.52	40.01	30.38	9.63	56.00	-15.99	QP	line1		
5	0.98	19.48	9.84	9.64	46.00	-26.52	Average	line1		
6	0.98	38.51	28.87	9.64	56.00	-17.49	QP	line1		
7	2.17	17.26	7.60	9.66	46.00	-28.74	Average	line1		
8	2.17	32.14	22.48	9.66	56.00	-23.86	QP	line1		
9	4.82	12.76	3.06	9.70	46.00	-33.24	Average	line1		
10	4.82	27.87	18.17	9.70	56.00	-28.13	QP	line1		
11	16.66	26.92	19.15	9.77	50.00	-21.08	Average	line1		
12	16.66	34.36	24.59	9.77	60.00	-25.04	QP	line1		

Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.21	27.10	17.48	9.62	53.02	-25.92	Average	neutral		
2	0.21	44.03	34.41	9.62	63.02	-18.99	QP	neutral		
3	0.56	24.12	14.49	9.63	46.00	-21.88	Average	neutral		
4	0.56	44.06	34.43	9.63	56.00	-11.94	QP	neutral		
5	0.92	18.53	8.89	9.64	46.00	-27.47	Average	neutral		
6	0.92	36.05	26.41	9.64	56.00	-19.95	QP	neutral		
7	2.07	17.61	8.15	9.66	46.00	-28.19	Average	neutral		
8	2.07	33.21	23.55	9.66	56.00	-22.79	QP	neutral		
9	6.06	11.84	2.10	9.74	50.00	-38.16	Average	neutral		
10	6.06	28.14	18.40	9.74	60.00	-31.86	QP	neutral		
11	16.58	28.29	18.45	9.84	50.00	-21.71	Average	neutral		
12	16.58	33.85	24.01	9.84	60.00	-26.15	QP	neutral		