Test Report No:
2550034R-RFUSV01S-A

TEST REPORT
FCC Rules&Regulations

Product Name	Wi-Fi 6 Access Point
Brand Name	ERICSSON
Model No.	S1A527A
FCC ID	UXX-S1A527AB
Applicant´s Name / Address	Ericsson Enterprise Wireless Solutions, Inc. 1100 West Idaho Street, Boise, Idaho, 83702, United States
Manufacturer's Name / Address (1)	Accton Technology Corporation Zhubei Factory No. 1, Zhihui 1st Rd., Zhubei City , Hsinchu County 302 Taiwan, R.O.C.
Manufacturer's Name / Address (2)	Accton Technology Corporation No. 1, Creation Rd. III, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C.
Manufacturer's Name / Address (3)	VIETNAM ACCTON TECHNOLOGY COMPANY LIMITED Lot F1-2-3 Thang Long Industrial Park (Vinh Phuc),Tam Hop Commune Binh Xuyen District,Vinh Phuc Province, Vietnam
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	Jennie She Jennie She
Approved By	Allen Lin Allen Lin
Date of Receipt	May 02, 2025
Date of Issue	May 23, 2025
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	May 23, 2025

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	Occupied Bandwidth & DTS Bandwidth	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Maximum Power Spectral Density	PASS	-
7	Antenna Port Conducted Emission	PASS	-
8	Transmitter Radiated Spurious Emission	PASS	-

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.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency Range	2400 ~ 2483.5 MHz	
Operating Frequency	IEEE 802.11b/g IEEE 802.11n/ax, VHT (20 MHz)	2412 ~ 2462 MHz
	IEEE 802.11n/ax, VHT (40 MHz)	2422 ~ 2452 MHz
Channel Number	IEEE 802.11b/g IEEE 802.11n/ax, VHT (20 MHz)	11 Channels
	IEEE 802.11n/ax, VHT (40 MHz)	7 Channels
Type of Modulation	IEEE 802.11b	DSSS-DBPSK, DQPSK, CCK
	IEEE 802.11g/n	OFDM-BPSK, QPSK, 16QAM, 64QAM
	IEEE 802.11ax	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	VHT	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM

Accessories Information		
No.	Equipment Name	Description
1	Wall mount (Metal)	-

The EUT has two sources for marketing.

Source	Location: U12			Location: R135
Main source	PHY IC	Brand: ECONET	P/N: EN8801SN	N/A
Second source	PHY IC	Brand: AIROHA	P/N: AN8801SBN	Resistor

Main source was selected as representative model for the test and its data was recorded in this report.

Antenna Information					
Ant.	Manufacturer	Model No.	Type	Gain (dBi)	Directional Gain (dBi)
1	ACCTON Technology Corporation	KG568-T4-175B17U7S	Dipole	4.90	7.87
2	ACCTON Technology Corporation	KG568-T4-105W17U7S	Dipole	4.81	

Note: Directional Gain = 10log $[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{Ant}]$

<WiFi 2.4GHz Function>

For IEEE 802.11b/g/n/ax, VHT Mode: (2TX, 2RX)

Both Ant. 1~Ant. 2 can be used as transmitting/receiving antennas, and they can transmit/receive signal simultaneously.

1.2. EUT Information

EUT Power Type	From Adapter / PoE Injector			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Beamforming Function	☒	With beamforming	☐	Without beamforming
Resource Unit of 802.11ax	☒	Full RU	☐	Partial RU

1.3. Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013

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

- KDB 558074 D01 v05r02
- KDB 662911 D01 v02r01
- KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory：DEKRA Testing and Certification Co., Ltd.		
	1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.
	2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
AC Conduction Emission	HC-SR02	Igor Tseng	22~25 / 48~49	2025/05/07~2025/05/12
RF Conducted Emission	HC-SR12	Kevin Teng	25~25.2 / 48.5~49.3	2025/05/07~2025/05/12
Radiated Emission	HC-CB04	Jason Yang Cyril Chen	21~23 / 53~63	2025/05/02~2025/05/14

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document 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 Item	Uncertainty
AC Power Line Conducted Emission	± 2.34 dB
Occupied Bandwidth & DTS Bandwidth	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 2.47 dB
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	9kHz-30MHz, 4line/100A	2024/12/02	2025/12/01
EMI Test Receiver	R&S	ESR3	102608	9 kHz - 3.6 GHz	2024/09/11	2025/09/10
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2024/06/03	2025/06/02
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz–2500 MHz	2024/08/15	2025/08/14
EMI Testing System	Audix	e3 210616 dekra V9	HC-SR02	N/A	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2024/10/29	2025/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2024/10/29	2025/10/28
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2024/05/17	2025/05/16
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2024/06/11	2025/06/10
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2024/11/26	2025/11/25
Coaxial Cable	Huber+Suhner	SF104	HC-CB04	30 MHz-18 GHz, 11m	2024/08/07	2025/08/06
Pre-Amplifier	EMCI	EMC01820I	980364	30M-8 GHz,20 dB	2024/06/04	2025/06/03
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2024/07/16	2025/07/15

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

2.2. Test Frequency Mode

Test Software Version	QATool v0.0.2.78

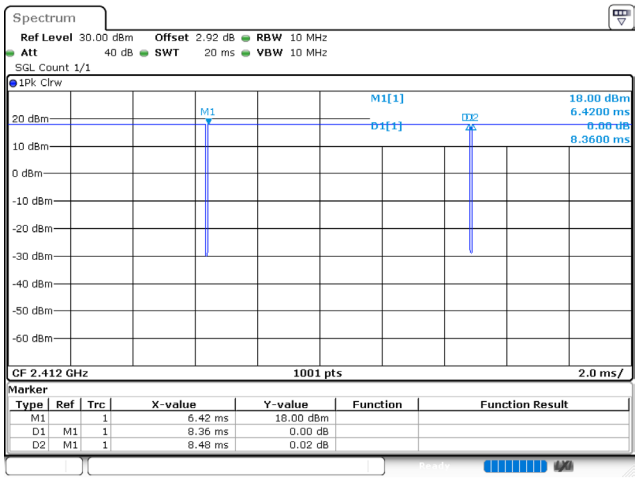
Modulation	Frequency (MHz)	Power Setting
802.11b	2412	13.0
	2437	13.5
	2462	12.5
802.11g	2412	17.0
	2437	20.0
	2462	17.5
802.11ax (20 MHz)	2412	18.0
	2437	21.0
	2462	19.0
802.11ax (40 MHz)	2422	16.5
	2437	19.0
	2452	17.5

2.3. Duty Cycle

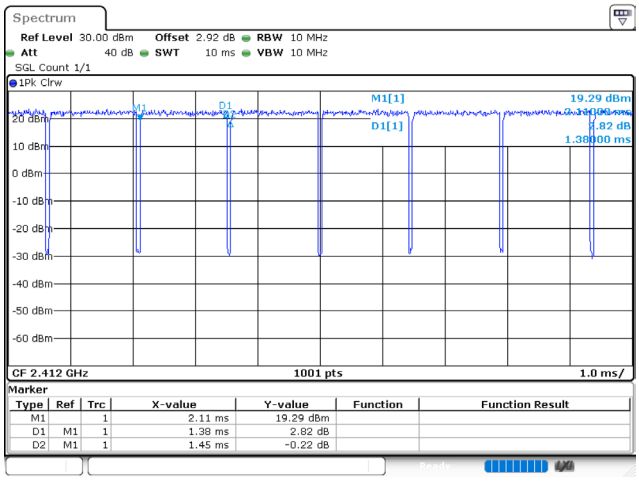
Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	8.360	8.480	98.58	0.062	0.010
802.11g	1.380	1.450	95.17	0.215	0.725
802.11ax (20 MHz)	1.015	1.085	93.55	0.290	0.985
802.11ax (40 MHz)	0.544	0.604	90.07	0.454	1.838

Note: The duty factor will compensate for the total power and power spectral density.

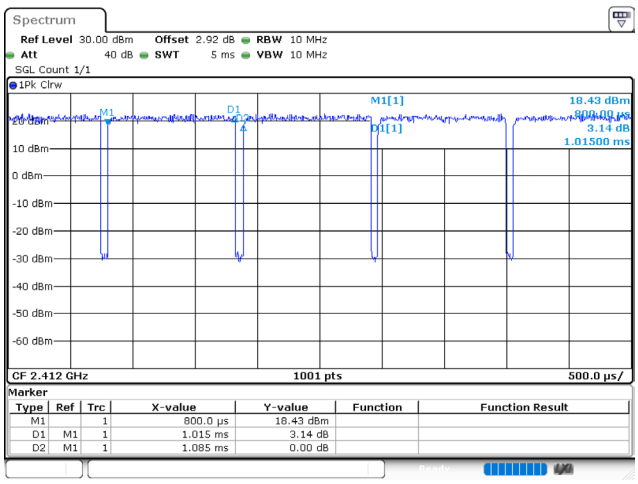
802.11b



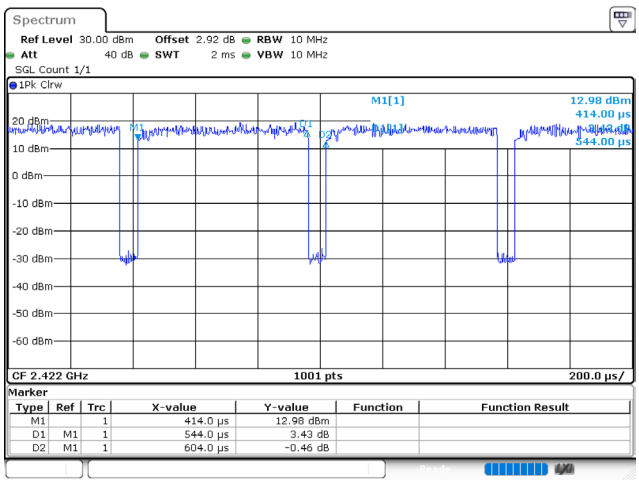
802.11g



802.11ax (20 MHz)



802.11ax (40 MHz)



2.4. The Worst Case Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit
1	EUT + Adapter
2	EUT + PoE

Tests Item	Occupied Bandwidth & DTS Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

Tests Item	Transmitter Radiated Spurious Emission
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.
Operating Mode < 1GHz	Transmit
1	EUT + Adapter
2	EUT + PoE
Operating Mode > 1GHz	Transmit
1	EUT + Adapter

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Transmit
1	Bluetooth LE + WiFi 2.4 GHz + WiFi 5 GHz
Refer to Appendix G for Radiated Emission Co-location.	

Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	Transmit
1	Bluetooth LE + WiFi 2.4 GHz + WiFi 5 GHz
Refer to DEKRA Test Report No.: 2550034R-RFUSV17S-A for Co-location RF Exposure Evaluation.	

Note:
1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For radiated spurious emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
3. The modulation and bandwidth are similar for 802.11n mode for HT20/HT40, VHT mode for VHT20/VHT40 and 802.11ax mode for HEW20/HEW40, therefore investigated worst case to representative mode in test report.

2.5. Tested System Details

Test Mode: Mode1

No.	Equipment	Brand Name	Model No.	Serial No.
1	Adapter	PHIHONG	WB-24J12R	N/A
2	Notebook	Lenovo	Lenovo Ideapad 320	PF0SXXY1

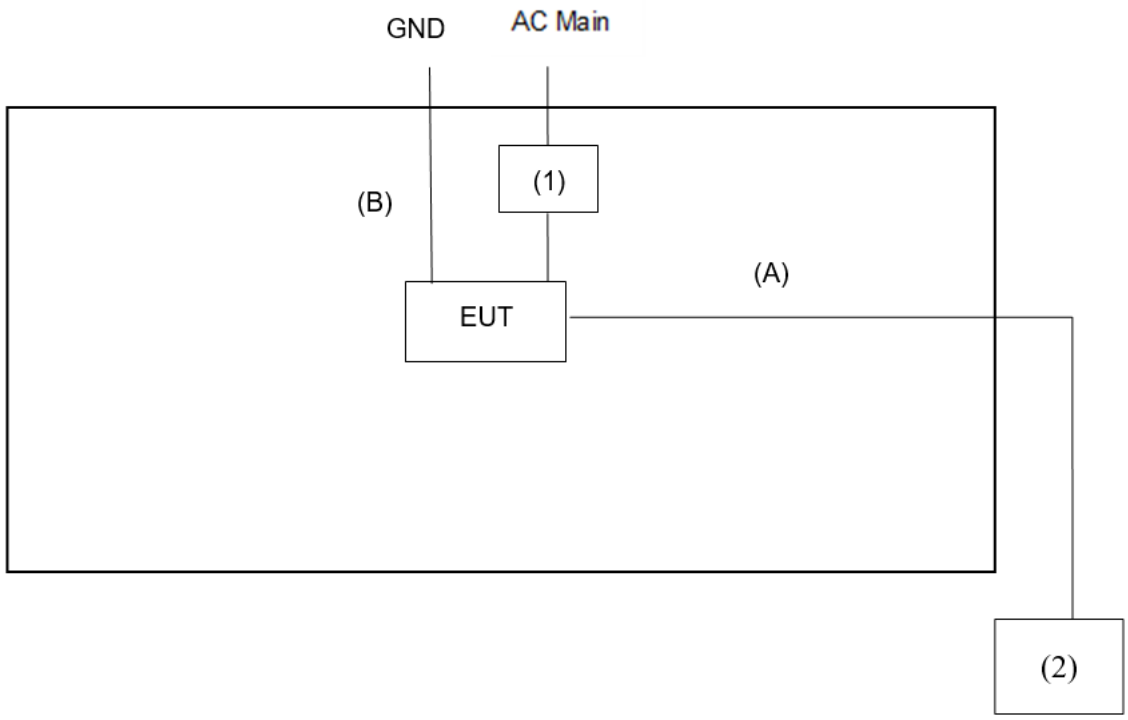
Test Mode: Mode2

No.	Equipment	Brand Name	Model No.	Serial No.
1	PoE Injector	PHIHONG	POE29U-1AT(PL)	N/A
2	Notebook	Lenovo	Lenovo Ideapad 320	PF0SXXY1

2.6. Configuration of Tested System

Test Mode: Mode1

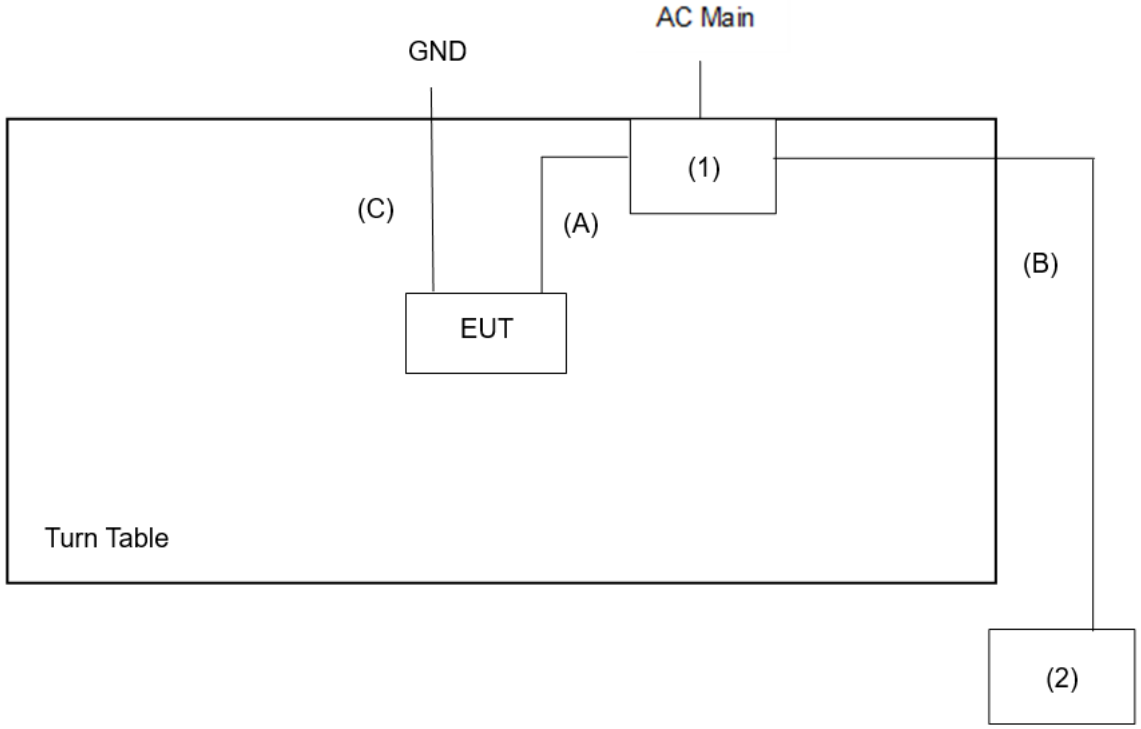
Connection Diagram



Signal Cable Type		Signal cable Description
A	Ethernet Cable	Non-Shielded, 10m
B	GND Cable	Non-Shielded, 2.5m

Test Mode: Mode2

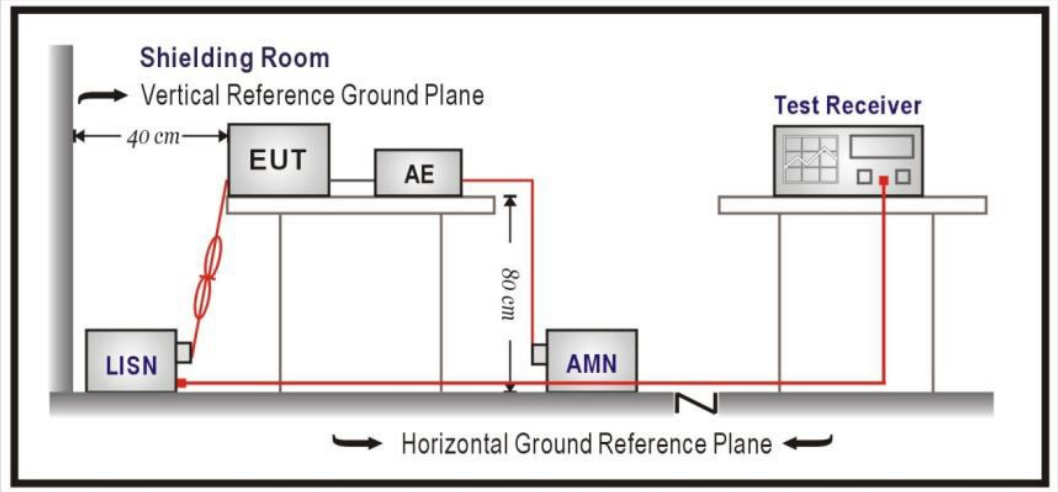
Connection Diagram



Signal Cable Type		Signal cable Description
A	Ethernet Cable	Non-Shielded, 2.5m
B	Ethernet Cable	Non-Shielded, 10m
C	GND Cable	Non-Shielded, 2.5m

3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

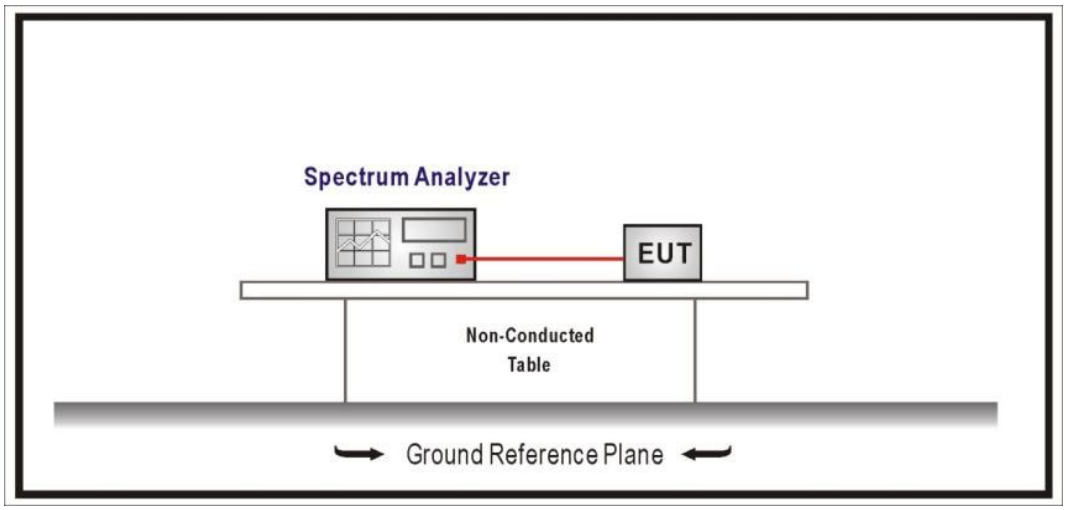
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Occupied Bandwidth & DTS Bandwidth

4.1. Test Setup



4.2. Test Limit

The 6 dB bandwidth: ≧ 0.50 MHz.

Occupied Bandwidth: N/A

4.3. Test Procedures

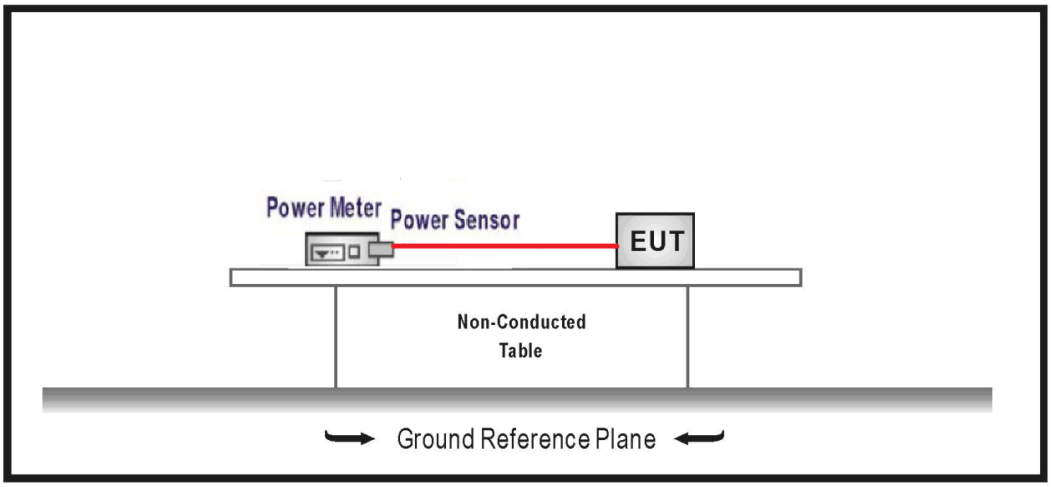
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix B

5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

5.3. Test Procedures

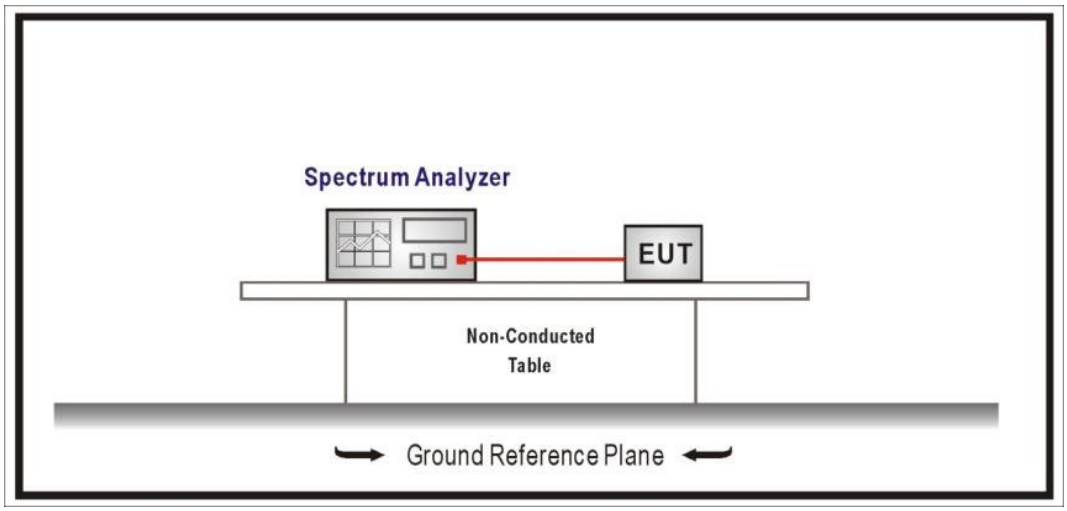
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3. Test Procedures

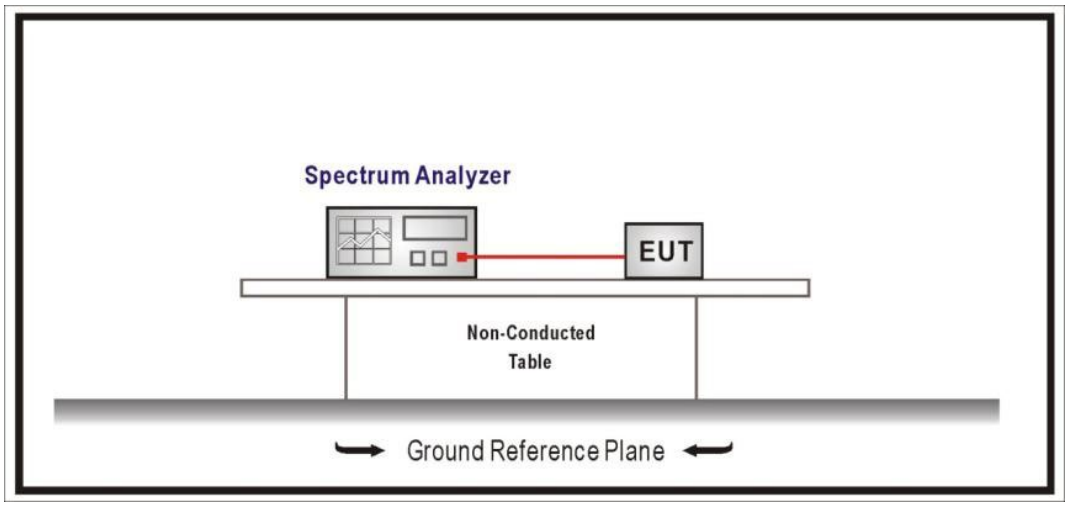
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D

7. Antenna Port Conducted Emission

7.1. Test Setup



7.2. Test Limit

RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Remarks:

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

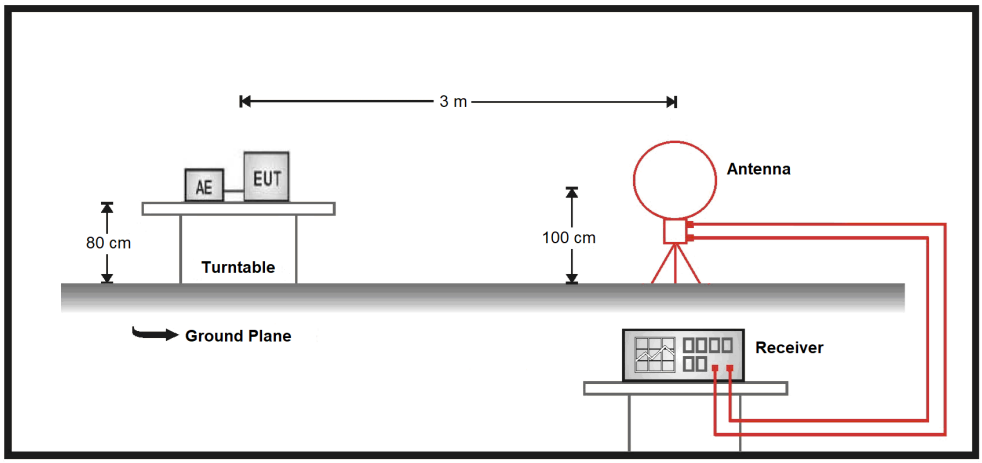
7.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix E

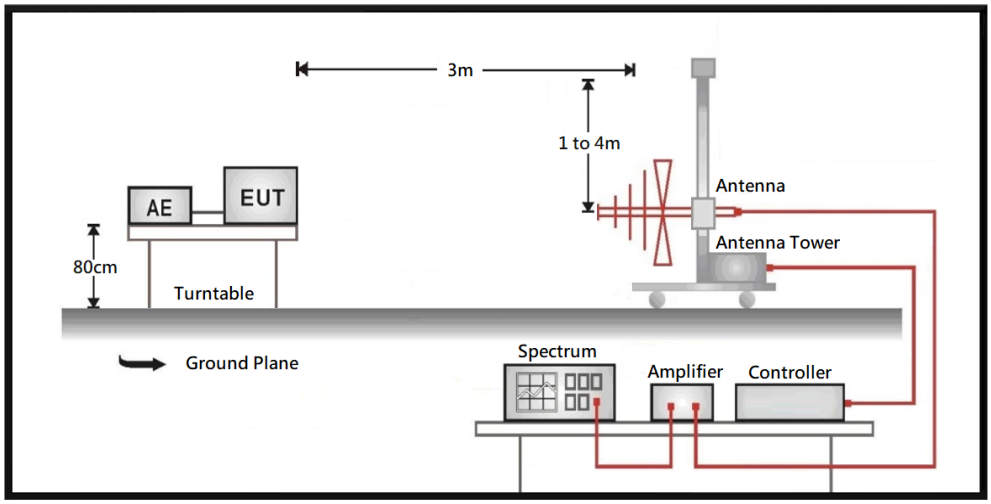
8. Transmitter Radiated Spurious Emission

8.1. Test Setup

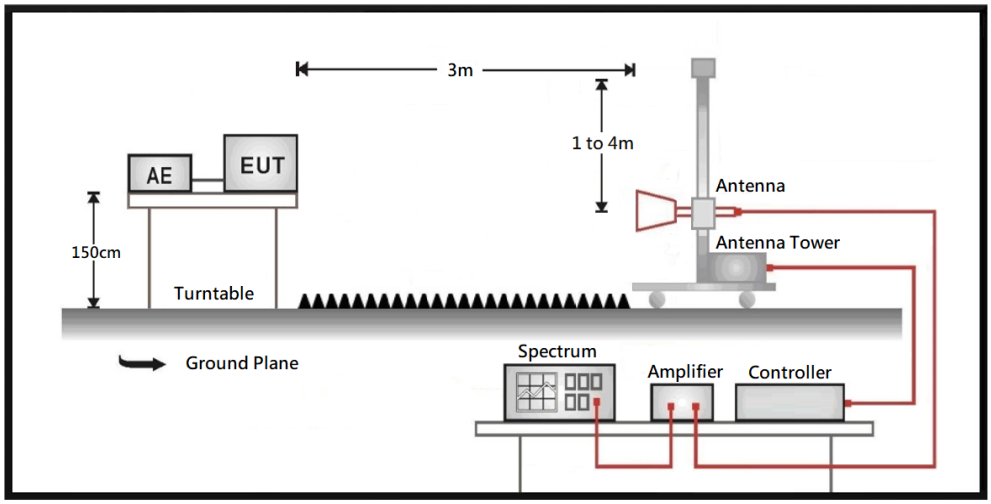
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



8.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies form 9 kHz(inculde The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

8.4. Test Result of Transmitter Radiated Spurious Emission (Below 30 MHz)

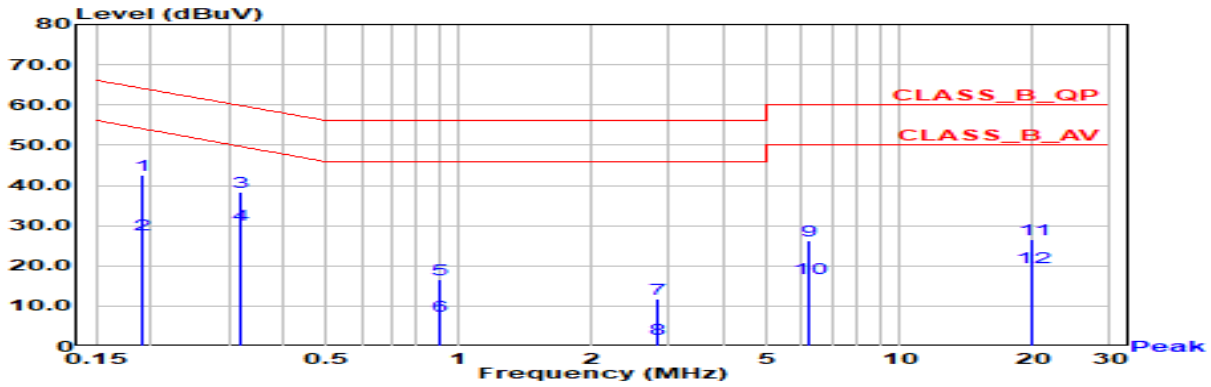
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8.5. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix F

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1	Phase	Line
Test Condition	WIFI 2.4G_TX		

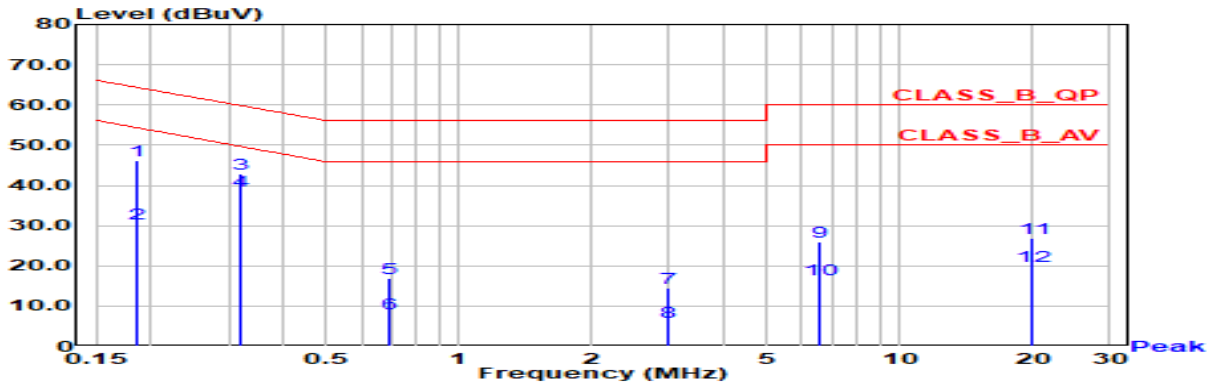


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.192	42.55	63.95	-21.40	32.92	9.62	QP
2	0.192	27.83	53.95	-26.12	18.20	9.62	AV
3	0.317	38.39	59.78	-21.39	28.75	9.63	QP
*4	0.317	30.19	49.78	-19.59	20.55	9.63	AV
5	0.905	16.46	56.00	-39.54	6.77	9.69	QP
6	0.905	7.58	46.00	-38.42	-2.11	9.69	AV
7	2.805	11.86	56.00	-44.14	2.06	9.80	QP
8	2.805	1.67	46.00	-44.33	-8.13	9.80	AV
9	6.223	26.37	60.00	-33.63	16.43	9.94	QP
10	6.223	16.79	50.00	-33.21	6.85	9.94	AV
11	20.094	26.45	60.00	-33.55	16.18	10.27	QP
12	20.094	19.52	50.00	-30.48	9.25	10.27	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1	Phase	Neutral
Test Condition	WIFI 2.4G_TX		

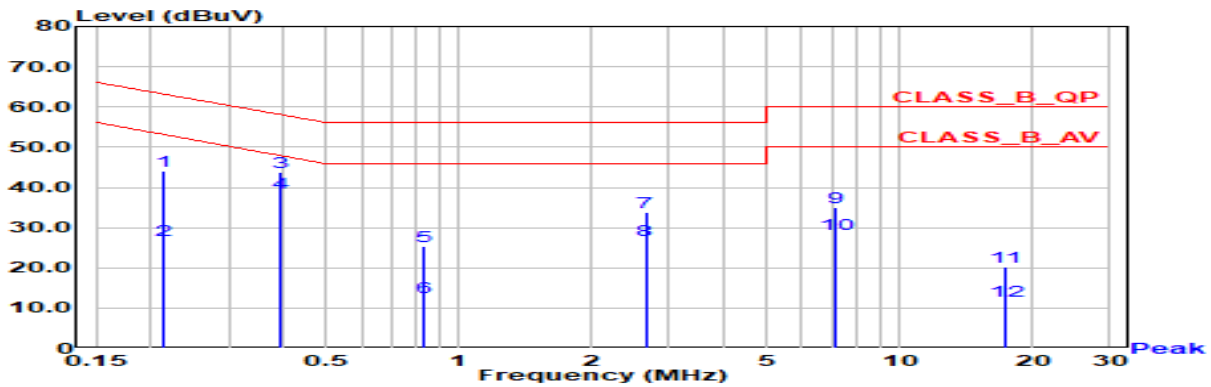


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.187	46.34	64.18	-17.84	36.71	9.62	QP
2	0.187	30.56	54.18	-23.62	20.94	9.62	AV
3	0.318	42.98	59.76	-16.78	33.34	9.63	QP
*4	0.318	38.65	49.76	-11.11	29.01	9.63	AV
5	0.694	17.03	56.00	-38.97	7.36	9.67	QP
6	0.694	8.11	46.00	-37.89	-1.56	9.67	AV
7	3.000	14.43	56.00	-41.57	4.63	9.81	QP
8	3.000	6.19	46.00	-39.81	-3.62	9.81	AV
9	6.610	26.05	60.00	-33.95	16.10	9.95	QP
10	6.610	16.62	50.00	-33.38	6.67	9.95	AV
11	20.057	26.78	60.00	-33.22	16.51	10.27	QP
12	20.057	20.06	50.00	-29.94	9.79	10.27	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2	Phase	Line
Test Condition	WIFI 2.4G_TX		

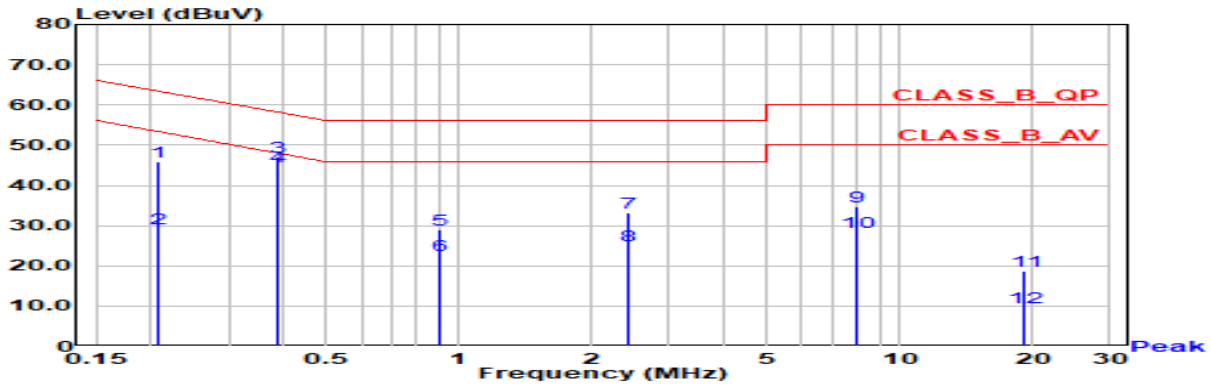


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.214	44.22	63.07	-18.84	34.60	9.63	QP
2	0.214	26.82	53.07	-26.25	17.20	9.63	AV
3	0.391	43.72	58.03	-14.31	34.08	9.64	QP
*4	0.391	38.52	48.03	-9.51	28.88	9.64	AV
5	0.828	25.35	56.00	-30.65	15.66	9.69	QP
6	0.828	12.77	46.00	-33.23	3.08	9.69	AV
7	2.650	33.73	56.00	-22.27	23.93	9.80	QP
8	2.650	26.74	46.00	-19.26	16.94	9.80	AV
9	7.123	35.02	60.00	-24.98	25.02	10.00	QP
10	7.123	28.46	50.00	-21.54	18.46	10.00	AV
11	17.326	20.31	60.00	-39.69	9.94	10.37	QP
12	17.326	11.68	50.00	-38.32	1.30	10.37	AV

Note:

4. "*" means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
6. Margin = Emission Level - Limit.

Test Mode	Mode 2	Phase	Neutral
Test Condition	WIFI 2.4G_TX		



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.208	45.75	63.27	-17.52	36.12	9.63	QP
2	0.208	29.14	53.27	-24.13	19.52	9.63	AV
3	0.386	47.07	58.14	-11.07	37.43	9.64	QP
*4	0.386	44.73	48.14	-3.42	35.09	9.64	AV
5	0.908	28.85	56.00	-27.15	19.15	9.70	QP
6	0.908	22.49	46.00	-23.51	12.79	9.70	AV
7	2.406	33.34	56.00	-22.66	23.55	9.79	QP
8	2.406	25.07	46.00	-20.93	15.28	9.79	AV
9	7.967	34.69	60.00	-25.31	24.65	10.04	QP
10	7.967	28.51	50.00	-21.49	18.47	10.04	AV
11	19.248	18.61	60.00	-41.39	8.18	10.44	QP
12	19.248	9.58	50.00	-40.42	-0.86	10.44	AV

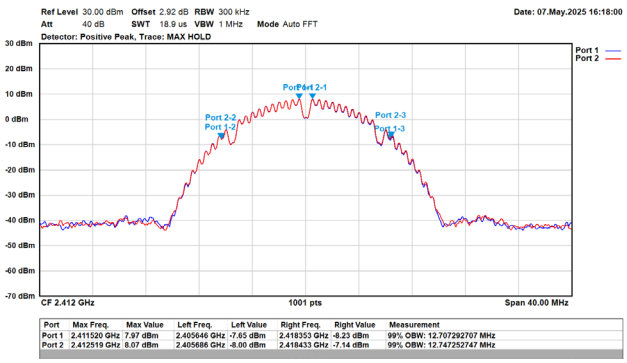
Note:

4. "*" means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
6. Margin = Emission Level - Limit.

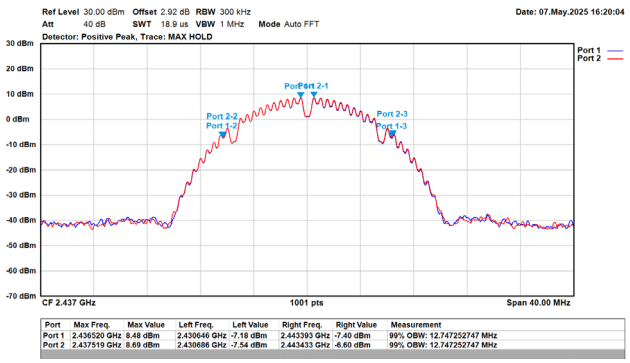
Appendix B.1 Test Result of Occupied Bandwidth

Modulation	Frequency (MHz)	Occupied Bandwidth (MHz)		Limit (MHz)
		Ant. 1	Ant. 2	
802.11b	2412	12.710	12.750	-
	2437	12.750	12.750	-
	2462	12.710	12.830	-
802.11g	2412	17.100	16.940	-
	2437	17.220	17.540	-
	2462	16.900	16.900	-
802.11ax (20 MHz)	2412	18.940	18.980	-
	2437	19.060	19.220	-
	2462	19.060	19.140	-
802.11ax (40 MHz)	2422	37.960	37.960	-
	2437	38.120	38.200	-
	2452	38.120	38.040	-

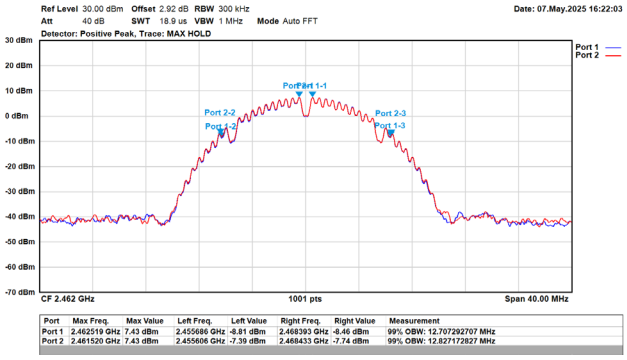
802.11b/20MHz/1M/2412MHz/Ch1



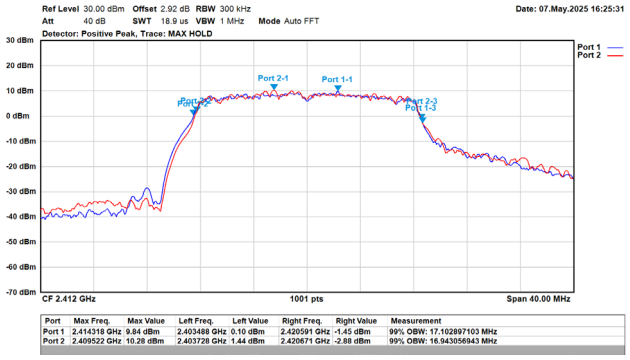
802.11b/20MHz/1M/2437MHz/Ch6



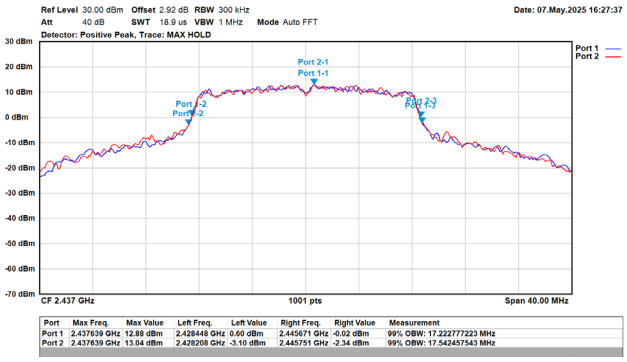
802.11b/20MHz/1M/2462MHz/Ch11



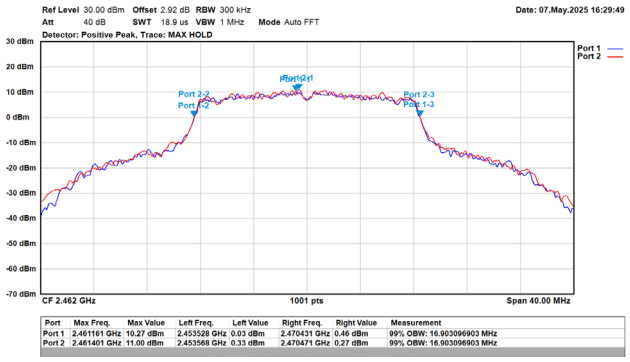
802.11g/20MHz/6M/2412MHz/Ch1



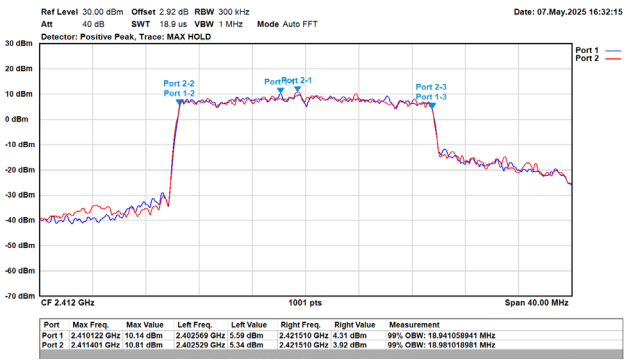
802.11g/20MHz/6M/2437MHz/Ch6



802.11g/20MHz/6M/2462MHz/Ch11

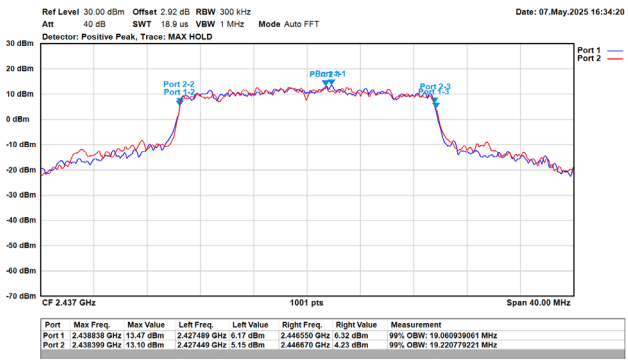


802.11ax/20MHz/MCS0/2412MHz/Ch1



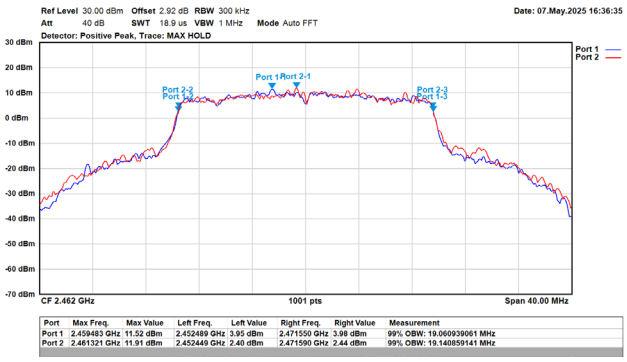
Port	Max Freq.	Max Value	Left Freq.	Left Value	Right Freq.	Right Value	Measurement
Port 1	2.410122 GHz	10.14 dBm	2.402569 GHz	5.59 dBm	2.421510 GHz	4.31 dBm	99% OBW: 18.941058941 MHz
Port 2	2.411401 GHz	10.81 dBm	2.402529 GHz	5.34 dBm	2.421510 GHz	3.92 dBm	99% OBW: 18.981018981 MHz

802.11ax/20MHz/MCS0/2437MHz/Ch6



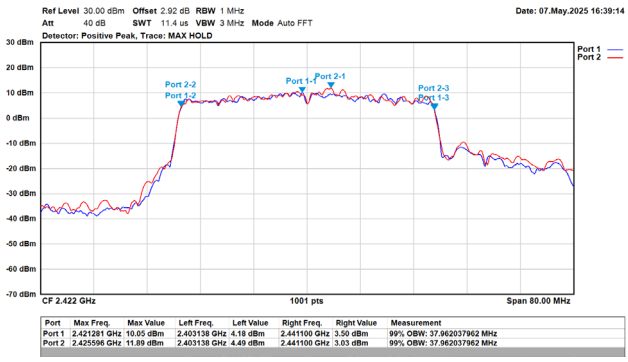
Port	Max Freq.	Max Value	Left Freq.	Left Value	Right Freq.	Right Value	Measurement
Port 1	2.438838 GHz	13.47 dBm	2.427489 GHz	6.17 dBm	2.446550 GHz	6.32 dBm	99% OBW: 19.060939061 MHz
Port 2	2.438399 GHz	13.10 dBm	2.427449 GHz	5.15 dBm	2.446670 GHz	4.23 dBm	99% OBW: 19.220779221 MHz

802.11ax/20MHz/MCS0/2462MHz/Ch11



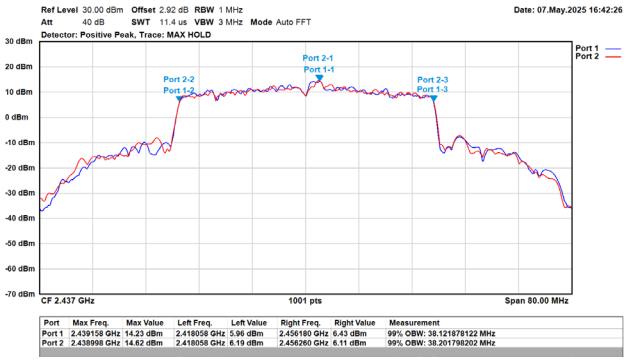
Port	Max Freq.	Max Value	Left Freq.	Left Value	Right Freq.	Right Value	Measurement
Port 1	2.459483 GHz	11.52 dBm	2.452489 GHz	3.95 dBm	2.471550 GHz	3.98 dBm	99% OBW: 19.060939061 MHz
Port 2	2.461321 GHz	11.91 dBm	2.452449 GHz	2.40 dBm	2.471590 GHz	2.44 dBm	99% OBW: 19.140859141 MHz

802.11ax/40MHz/MCS0/2422MHz/Ch3



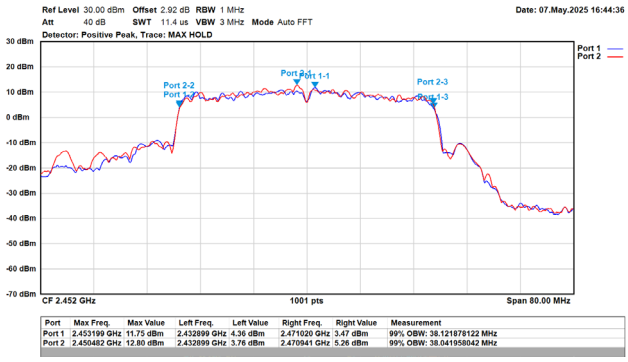
Port	Max Freq.	Max Value	Left Freq.	Left Value	Right Freq.	Right Value	Measurement
Port 1	2.421281 GHz	10.05 dBm	2.403138 GHz	4.18 dBm	2.441100 GHz	3.50 dBm	99% OBW: 37.962037962 MHz
Port 2	2.425596 GHz	11.89 dBm	2.403138 GHz	4.49 dBm	2.441100 GHz	3.03 dBm	99% OBW: 37.962037962 MHz

802.11ax/40MHz/MCS0/2437MHz/Ch6



Port	Max Freq.	Max Value	Left Freq.	Left Value	Right Freq.	Right Value	Measurement
Port 1	2.439158 GHz	14.23 dBm	2.418058 GHz	5.96 dBm	2.456180 GHz	6.43 dBm	99% OBW: 38.121878122 MHz
Port 2	2.438998 GHz	14.62 dBm	2.418058 GHz	6.19 dBm	2.456260 GHz	6.11 dBm	99% OBW: 38.201798202 MHz

802.11ax/40MHz/MCS0/2452MHz/Ch9

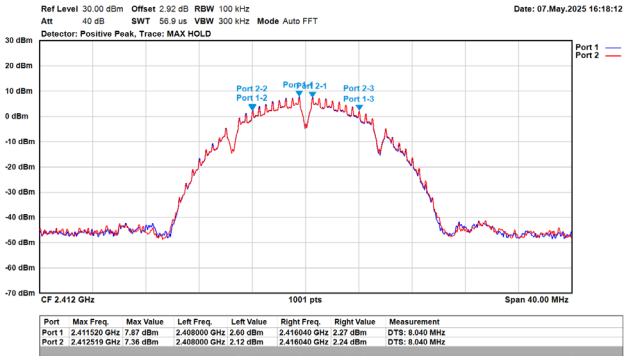


Port	Max Freq.	Max Value	Left Freq.	Left Value	Right Freq.	Right Value	Measurement
Port 1	2.453199 GHz	11.75 dBm	2.432899 GHz	4.36 dBm	2.471020 GHz	3.47 dBm	99% OBW: 38.121878122 MHz
Port 2	2.450482 GHz	12.80 dBm	2.432899 GHz	3.76 dBm	2.470941 GHz	5.26 dBm	99% OBW: 38.041958042 MHz

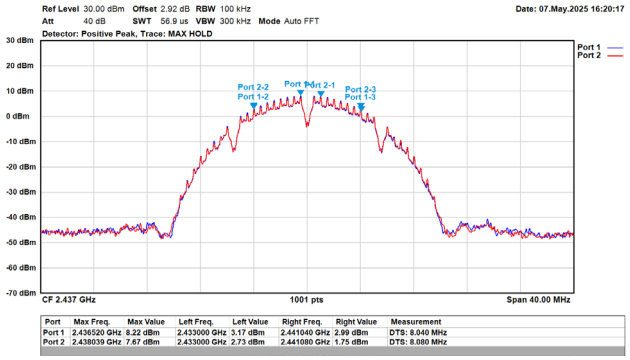
Appendix B.2 Test Result of DTS Bandwidth

Modulation	Frequency (MHz)	DTS Bandwidth (MHz)		Limit (MHz)	Result
		Ant. 1	Ant. 2		
802.11b	2412	8.040	8.040	0.50	Pass
	2437	8.040	8.080	0.50	Pass
	2462	8.040	8.040	0.50	Pass
802.11g	2412	16.320	16.280	0.50	Pass
	2437	15.680	16.320	0.50	Pass
	2462	16.280	16.320	0.50	Pass
802.11ax (20 MHz)	2412	18.400	18.360	0.50	Pass
	2437	18.560	18.320	0.50	Pass
	2462	17.960	18.840	0.50	Pass
802.11ax (40 MHz)	2422	35.760	35.360	0.50	Pass
	2437	36.080	36.080	0.50	Pass
	2452	35.120	35.600	0.50	Pass

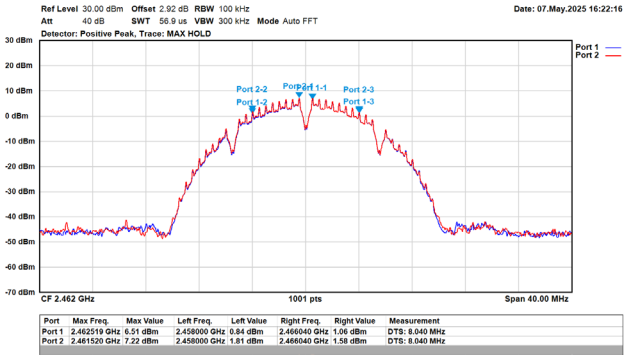
802.11b/20MHz/1M/2412MHz/Ch1



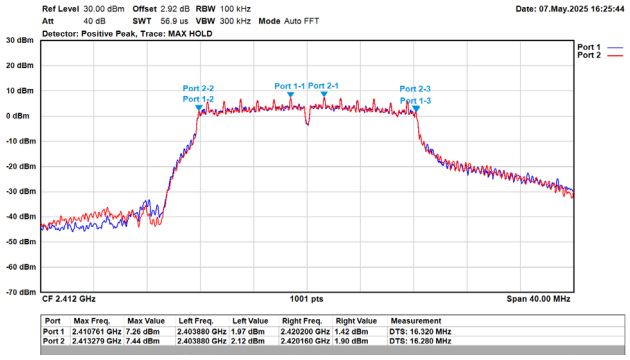
802.11b/20MHz/1M/2437MHz/Ch6



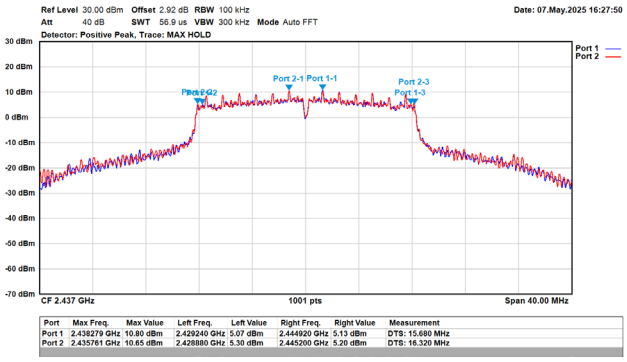
802.11b/20MHz/1M/2462MHz/Ch11



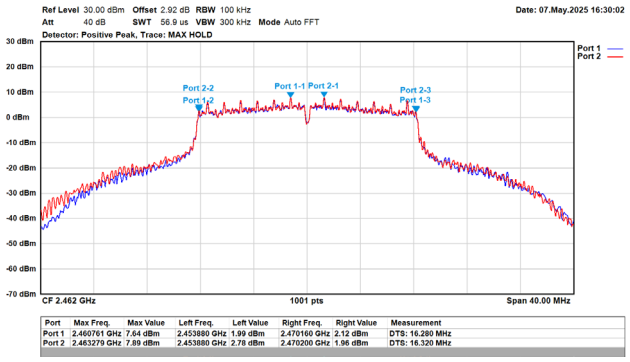
802.11g/20MHz/6M/2412MHz/Ch1



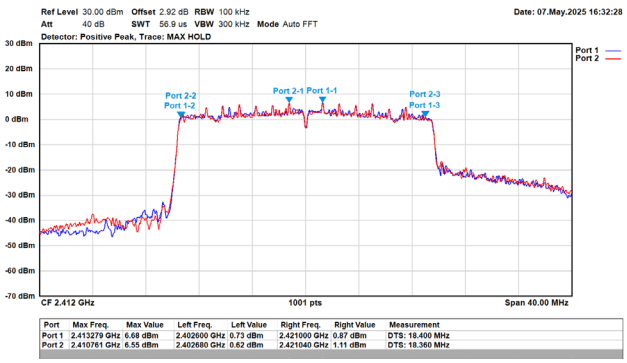
802.11g/20MHz/6M/2437MHz/Ch6



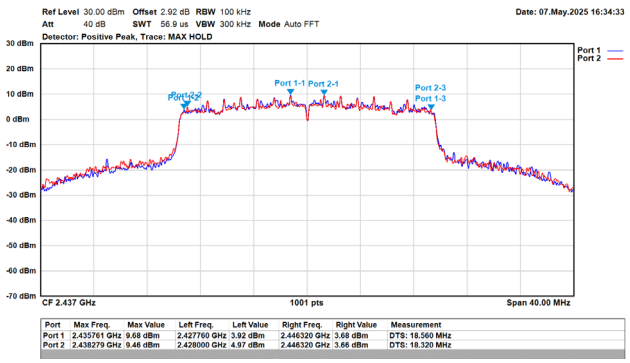
802.11g/20MHz/6M/2462MHz/Ch11



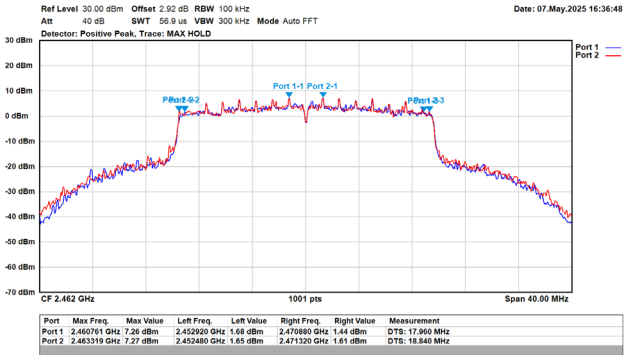
802.11ax/20MHz/MCS0/2412MHz/Ch1



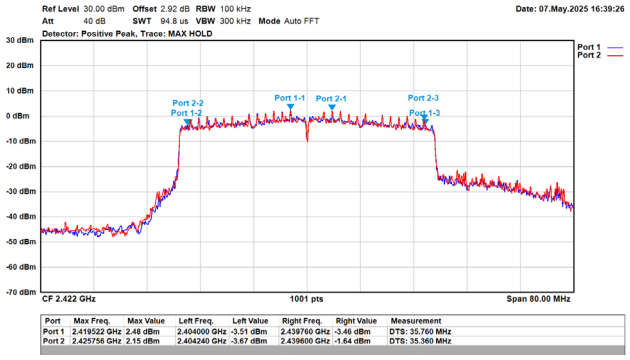
802.11ax/20MHz/MCS0/2437MHz/Ch6



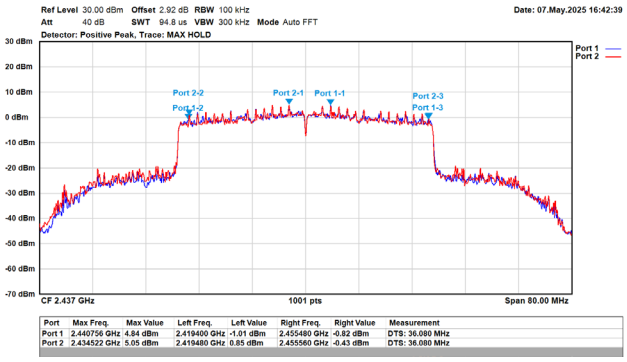
802.11ax/20MHz/MCS0/2462MHz/Ch11



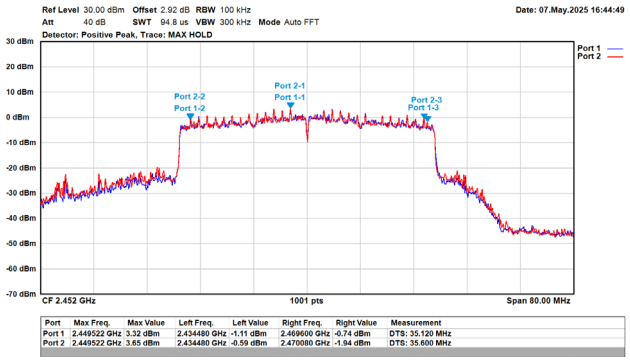
802.11ax/40MHz/MCS0/2422MHz/Ch3



802.11ax/40MHz/MCS0/2437MHz/Ch6



802.11ax/40MHz/MCS0/2452MHz/Ch9



Appendix C. Test Result of Maximum Conducted Output Power

<Non-beamforming function>

Modulation	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)				Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total	Limit			
802.11b	2412	15.900	15.710	18.816	30.00	4.900	23.716	36.00
	2437	16.340	16.370	19.365	30.00	4.900	24.265	36.00
	2462	15.260	15.300	18.290	30.00	4.900	23.190	36.00
802.11g	2412	18.350	18.220	21.296	30.00	4.900	26.196	36.00
	2437	21.250	21.060	24.166	30.00	4.900	29.066	36.00
	2462	18.600	18.700	21.661	30.00	4.900	26.561	36.00
802.11ax (20 MHz)	2412	17.510	17.450	20.490	30.00	4.900	25.390	36.00
	2437	20.340	20.350	23.355	30.00	4.900	28.255	36.00
	2462	18.300	18.290	21.305	30.00	4.900	26.205	36.00
802.11ax (40 MHz)	2422	15.950	15.920	18.945	30.00	4.900	23.845	36.00
	2437	18.350	18.290	21.330	30.00	4.900	26.230	36.00
	2452	16.750	16.830	19.800	30.00	4.900	24.700	36.00

Note: E.I.R.P. = Maximum Conducted Output Power + Antenna Gain.

<beamforming function>

Modulation	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)				Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total	Limit			
802.11ax (20 MHz)	2412	14.430	14.370	17.410	28.13	7.870	25.280	36.00
	2437	17.280	17.260	20.280	28.13	7.870	28.150	36.00
	2462	15.200	15.220	18.220	28.13	7.870	26.090	36.00
802.11ax (40 MHz)	2422	12.850	12.870	15.870	28.13	7.870	23.740	36.00
	2437	15.250	15.230	18.250	28.13	7.870	26.120	36.00
	2452	13.700	13.740	16.730	28.13	7.870	24.600	36.00

Note:

1. E.I.R.P. = Maximum Conducted Output Power + Directional Gain.
2. Directional Gain = 10log $[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{Ant}]$ = 7.87 dBi > 6 dBi, so power limit = 30 - (7.87 - 6) = 28.13 dBm.

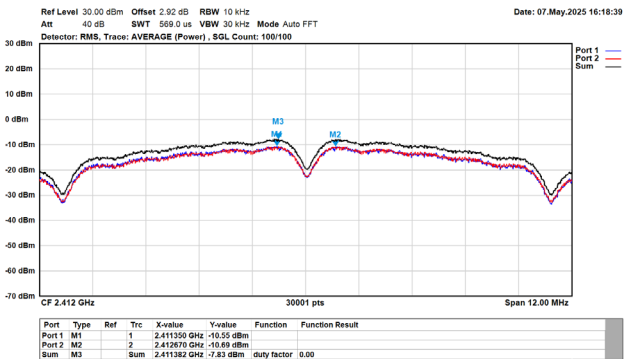
Appendix D. Test Result of Maximum Power Spectral Density

Modulation	Frequency (MHz)	Power Spectral Density (dBm/RBW)			Limit (dBm/3kHz)	Result
		Ant. 1	Ant. 2	Total		
802.11b (20MHz)	2412	-10.55	-10.69	-7.83	6.13	Pass
	2437	-9.86	-9.66	-7.08	6.13	Pass
	2462	-11.11	-10.57	-8.37	6.13	Pass
802.11g (20MHz)	2412	-10.30	-10.38	-7.42	6.13	Pass
	2437	-7.01	-7.17	-3.98	6.13	Pass
	2462	-9.48	-9.45	-6.72	6.13	Pass
802.11ax (20MHz)	2412	-12.07	-12.27	-8.95	6.13	Pass
	2437	-9.31	-9.11	-5.99	6.13	Pass
	2462	-11.83	-11.37	-8.66	6.13	Pass
802.11ax (40MHz)	2422	-15.51	-15.21	-12.70	6.13	Pass
	2437	-13.36	-13.07	-10.67	6.13	Pass
	2452	-15.89	-13.72	-11.70	6.13	Pass

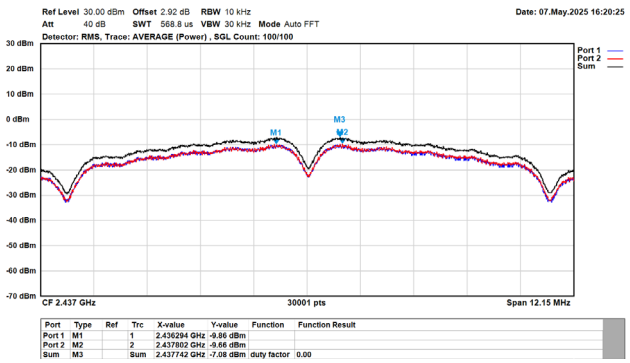
Note:

1. Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 2.3.
2. Directional Gain = 10log $[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{Ant}]$ for 2.4G : 7.87dBi >6dBi
   2.4G limit = 8 – (7.87 – 6) = 6.13dBm/3kHz.

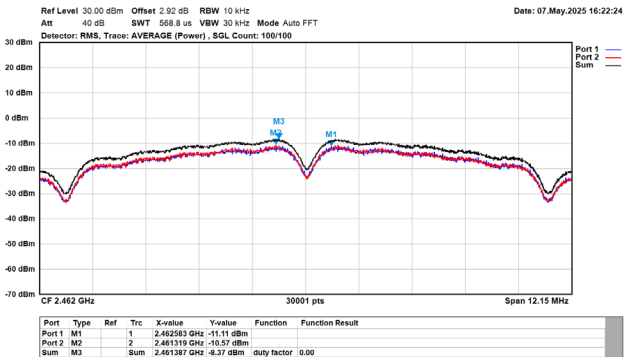
802.11b/20MHz/1M/2412MHz/Ch1



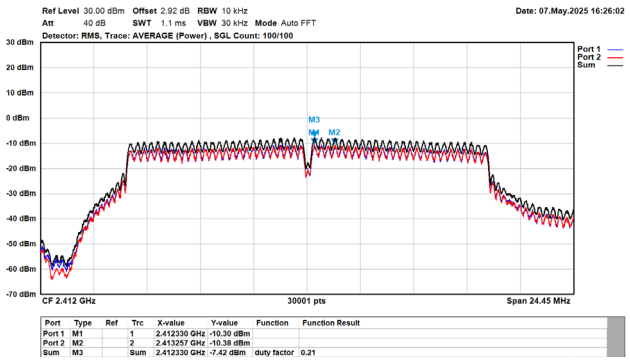
802.11b/20MHz/1M/2437MHz/Ch6



802.11b/20MHz/1M/2462MHz/Ch11



802.11g/20MHz/6M/2412MHz/Ch1



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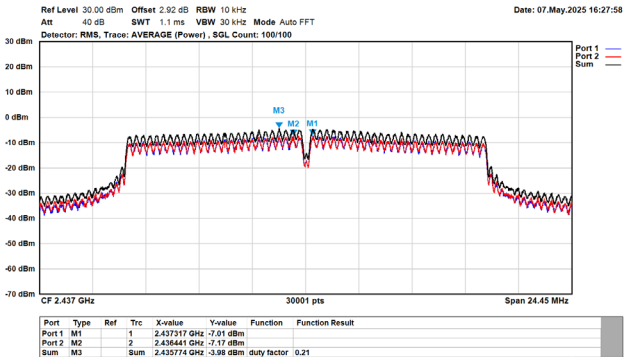
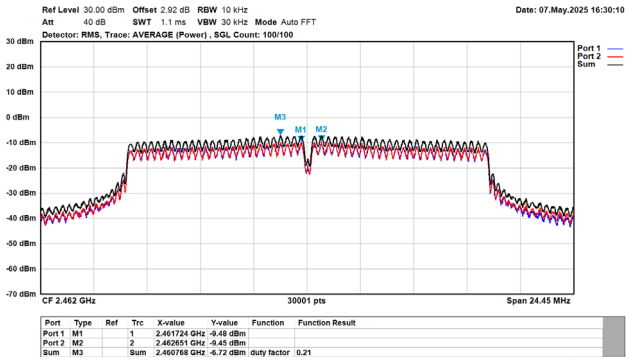
802.11g/20MHz/6M/2462MHz/Ch11