

Test Report No:
2430723R-RFUSV01S-A

TEST REPORT

FCC Rules&Regulations

Product Name	Handheld Tablet
Brand Name	Toast Inc.
Model No.	TG310
FCC ID	2AMNG-TG310
Applicant's Name / Address	Toast, Incorporated 333 Summer St, Boston, Massachusetts, United States 02210
Manufacturer's Name / Address	Toast, Incorporated 333 Summer St, Boston, Massachusetts, United States 02210
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	 Amelia Wu
Approved By	 Allen Lin
Date of Receipt	Mar. 22, 2024
Date of Issue	Apr. 07, 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	Apr. 07, 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	Brand Name	Model No.	Rating	Remark
1	Power Adaptor	Toast Inc.	FC015A05-050030U	INPUT: 100~240V, 50/60Hz, 0.5A OUTPUT: 5V, 3A, 15W	Type-C Interface
No.	Equipment Name	Description			
2	Cable	Shielded, 0.8m			
3	Li-ion polymer Battery Pack	3.8V, 5200mAh			

Antenna Information						
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Maximum Antenna Gain (dBi)	Directional Gain (dBi)
1	Advanced Wireless & Antenna INC.	ALL6Y-100008B	PIFA	3.06	3.06	5.71
2	Advanced Wireless & Antenna INC.	ALL6Y-100007B	PIFA	2.33		

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

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

Both Ant. 1 and 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 / Host system			
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	Cyril Chen	25 / 65	2024/12/10~2025/03/11
RF Conducted Emission	HC-SR12	Kevin Teng	20.8~23.2 / 49.7~52.3	2024/12/21-2025/03/04
Radiated Emission	HC-CB02	Scott Chang Brook Cheng	20 / 64	2024/12/10~2025/02/12

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
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19
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
Pulse Power Sensor	Anritsu	MA2411B	1531044	0.3-40 GHz	2024/10/29	2025/10/28

HC-CB02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	10 Hz-40 GHz	2024/10/04	2025/10/03
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	30 MHz-2 GHz	2024/04/29	2025/04/28
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211211A18EN	1G-18GHz	2024/11/08	2025/11/07
Pre-Amplifier	EMCI	EMC01820I	980365	30M-8 GHz,20 dB	2024/04/02	2025/04/01
Pre-Amplifier	EMEC	EM01G18GA	060741	1G-18 GHz,50 dB	2024/04/23	2025/04/22
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2024/10/17	2025/10/16
Band Reject Filter	Micro-Tronics	BRM50702	G258	rej 2400-2500 MHz	2024/04/29	2026/04/28
Band Reject Filter	Micro-Tronics	BRM50716	G068	rej 5150-5880 MHz	2024/01/26	2026/01/25
Radiated Software	AUDIX	e3 V9	HC-CB02_1	N/A	N/A	N/A

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

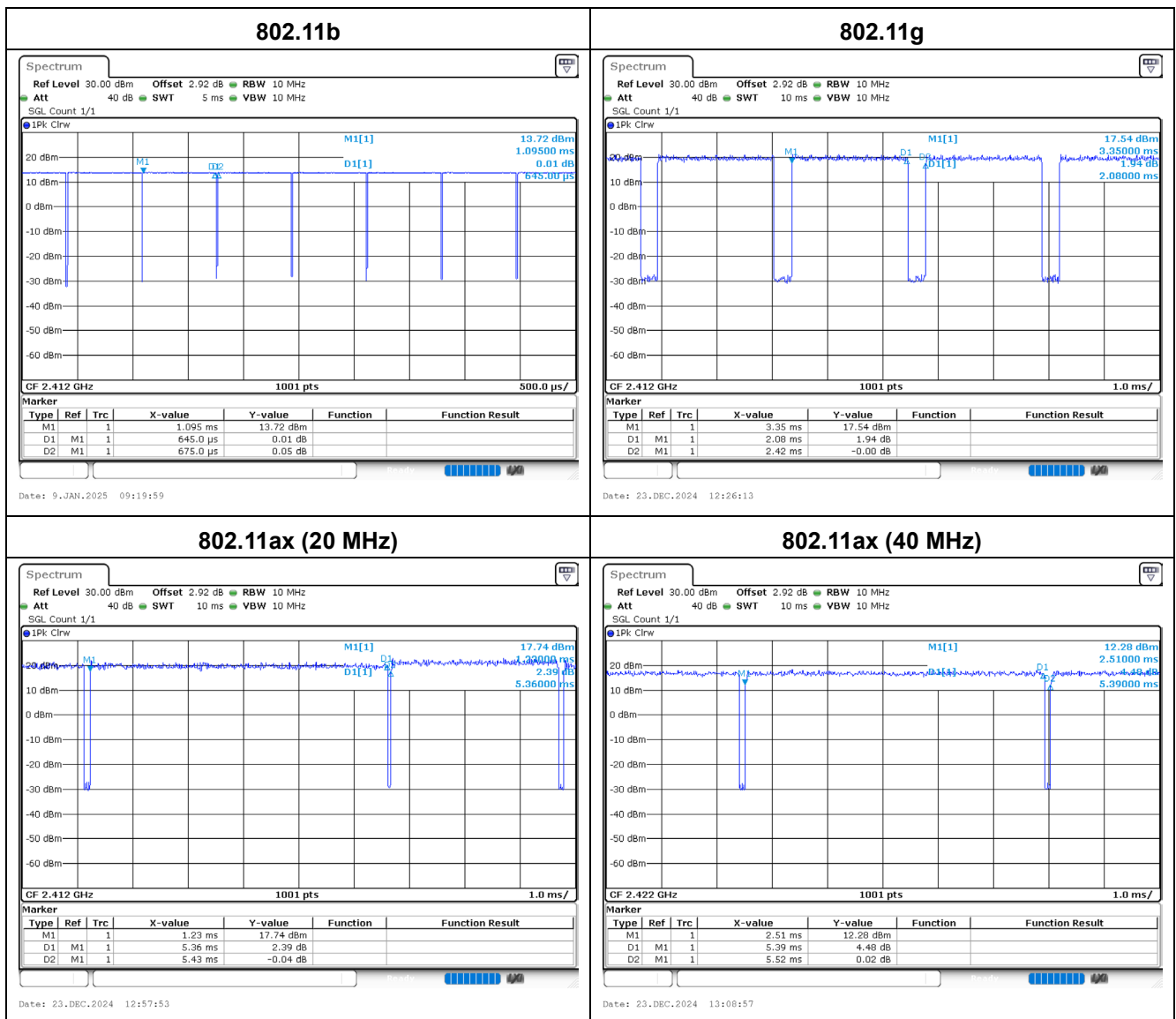
Test Software Version	Qualcomm® Radio Control Toolkit v4.1
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Modulation	Frequency (MHz)	Power Setting
802.11b	2412	11.5
	2437	11.5
	2462	11.0
802.11g	2412	11.5
	2437	11.5
	2462	11.0
802.11ax (20 MHz)	2412	12.0
	2437	11.5
	2462	11.5
802.11ax (40 MHz)	2422	11.5
	2437	11.5
	2452	11.0

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	0.645	0.675	95.56	0.197	1.550
802.11g	2.080	2.420	85.95	0.658	0.481
802.11ax (20 MHz)	5.360	5.430	98.71	0.056	0.010
802.11ax (40 MHz)	5.390	5.520	97.64	0.104	0.186

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



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	Adapter with Pogo pins cable
2	Adapter with USB Type-C cable
3	Notebook with USB Type-C cable

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	Adapter with Pogo pins cable
2	Adapter with USB Type-C cable
3	Notebook with USB Type-C cable
Operating Mode > 1GHz	Transmit
The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test. The worst case was found at X axis, so the measurement will follow this same test configuration.	

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Transmit
1	Bluetooth + WiFi 2.4 GHz
2	Bluetooth + WiFi 5 GHz
3	Bluetooth + WiFi 6 GHz
Refer to Appendix A for Radiated Emission Co-location.	

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

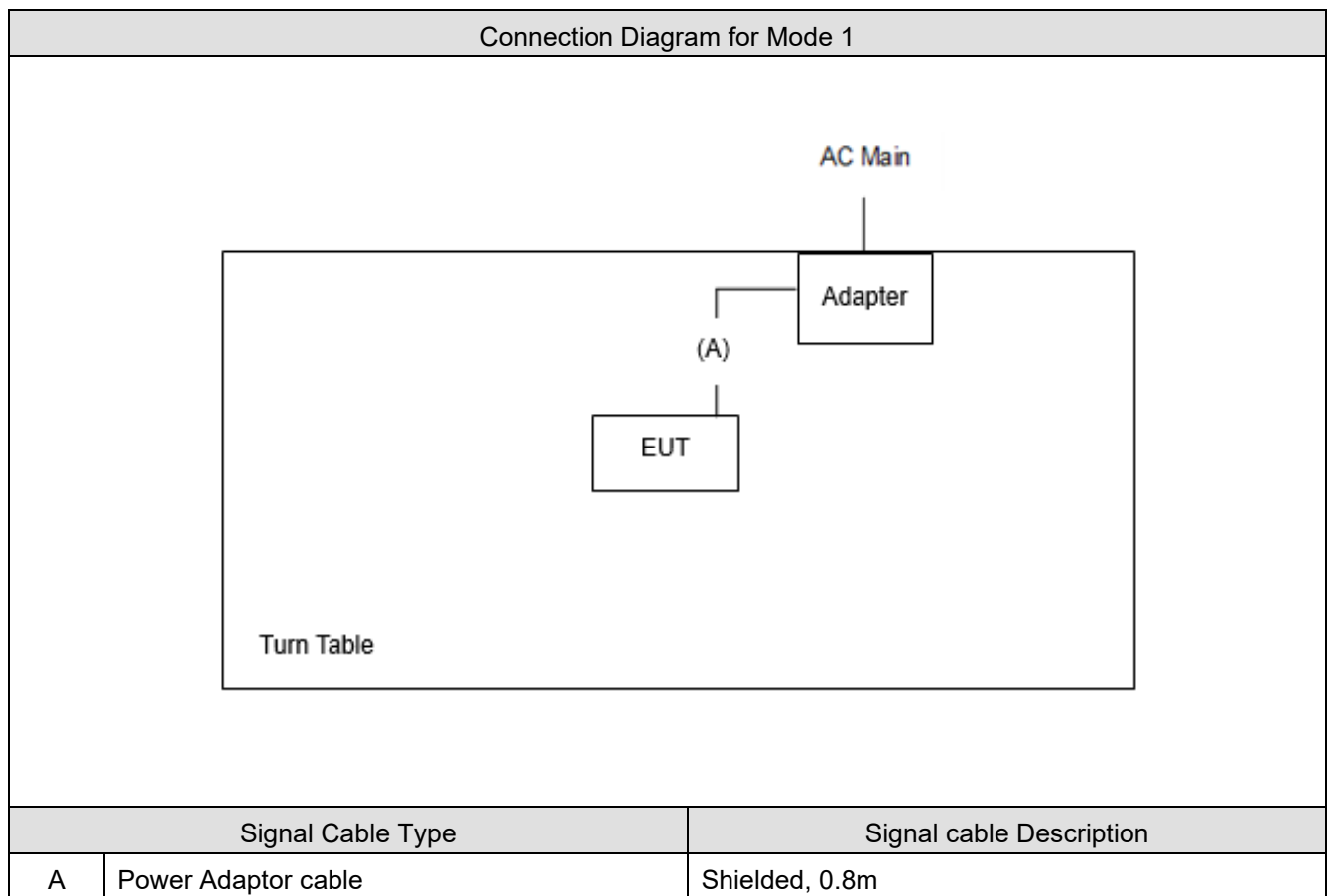
For Mode 1 / Mode 2

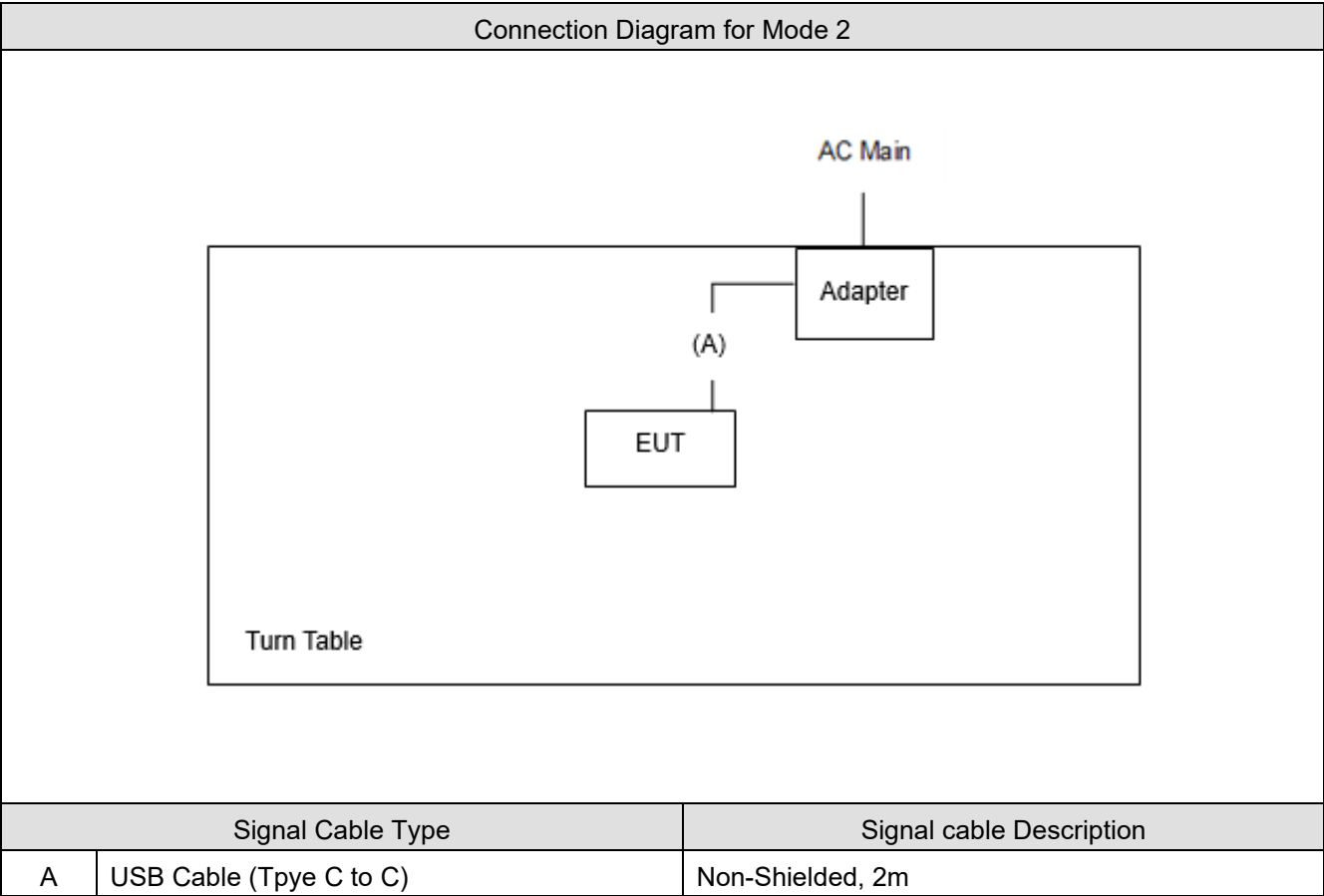
N/A

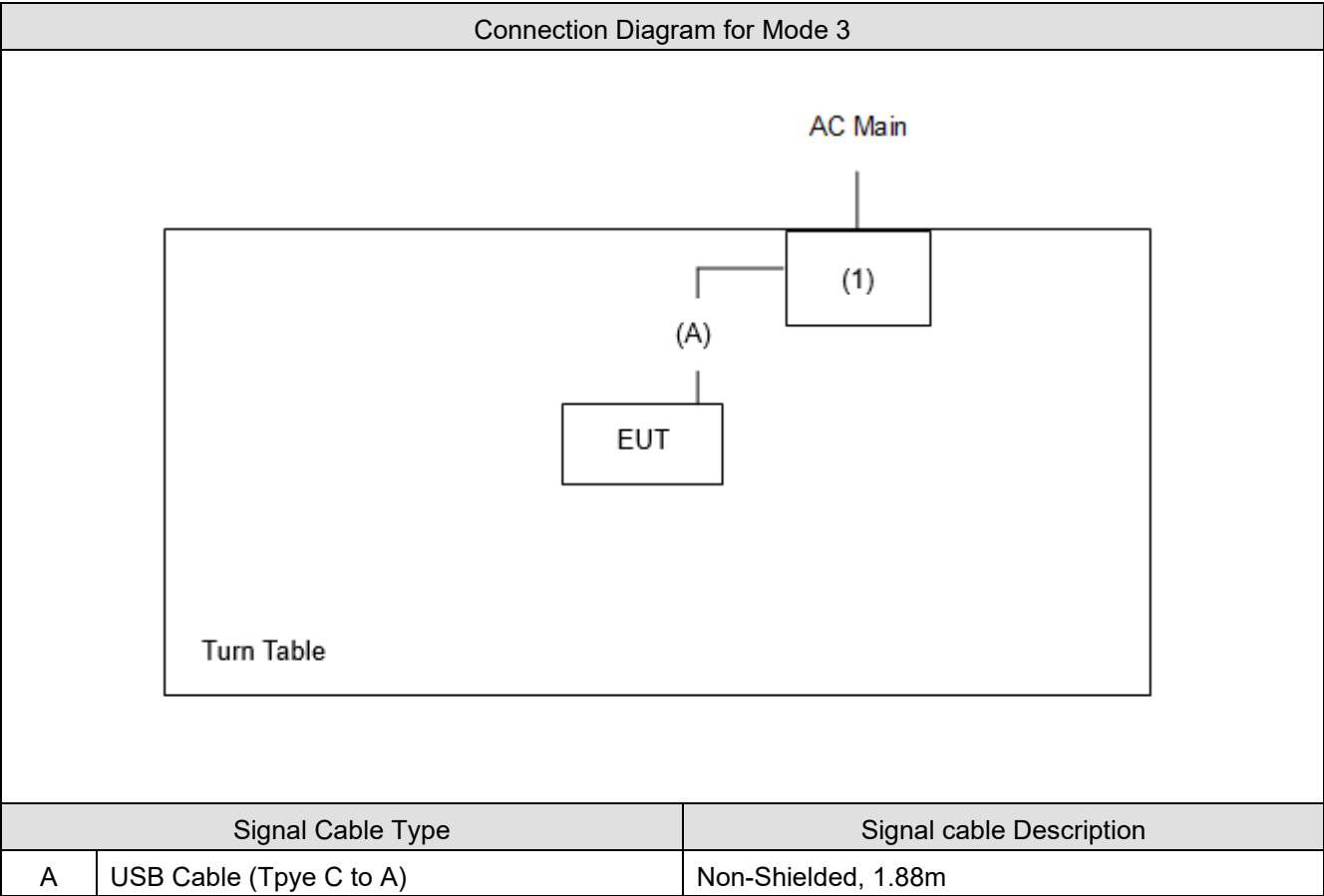
For Mode 3

No.	Equipment	Brand Name	Model No.	Serial No.
1	Notebook		E402S	GBN0CV14W224476

2.6. Configuration of Tested System

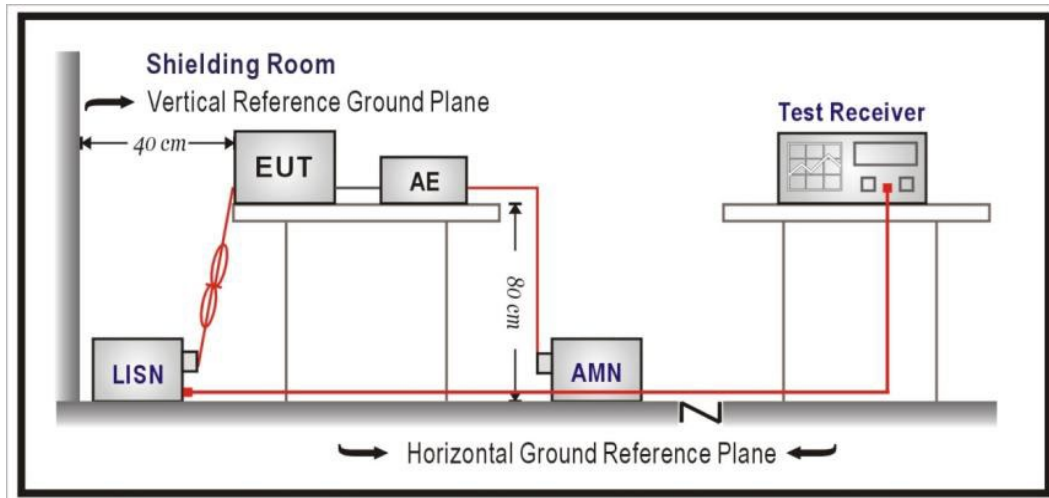






3. AC Power Line Conducted Emission

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.

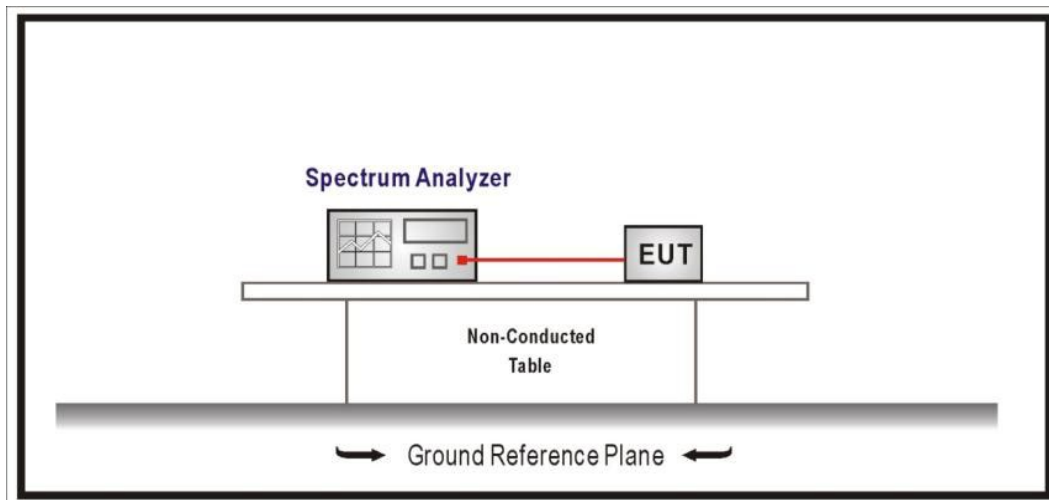
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

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

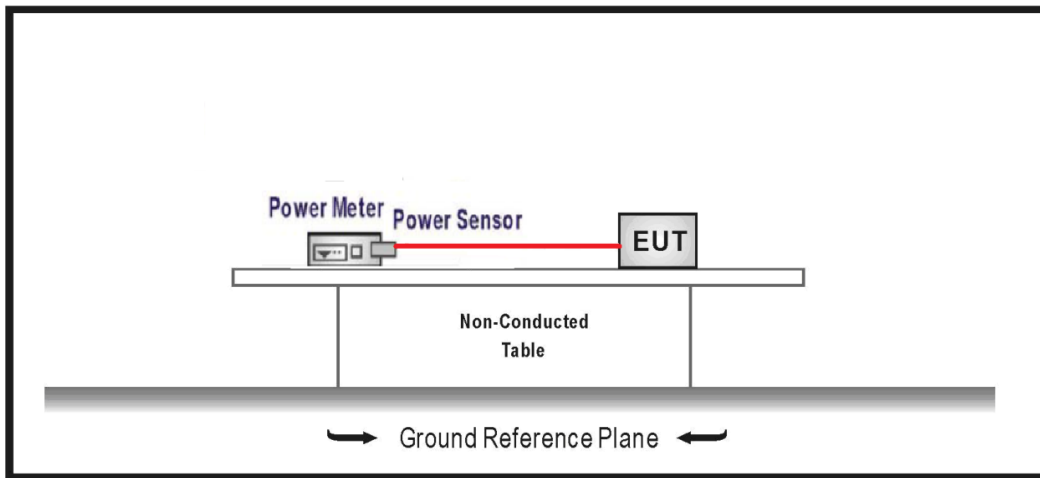
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

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

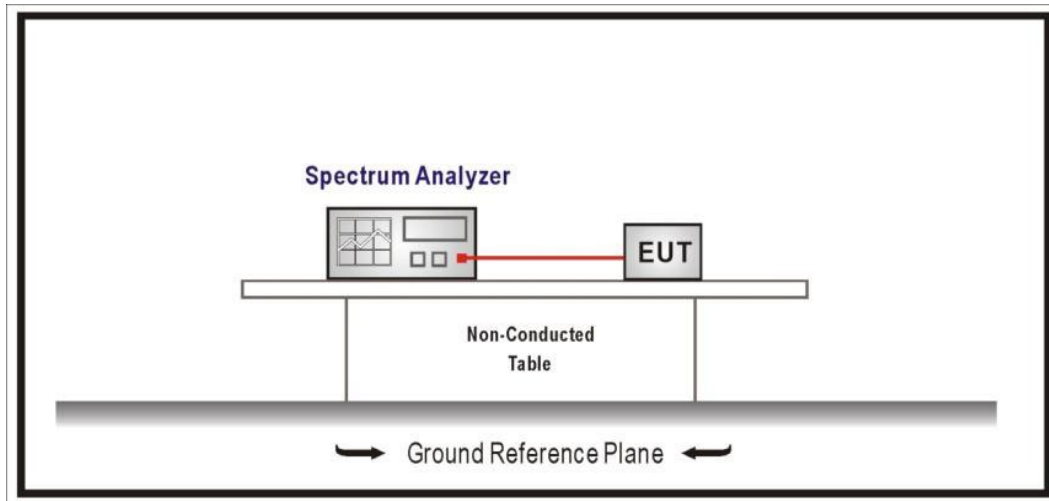
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

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

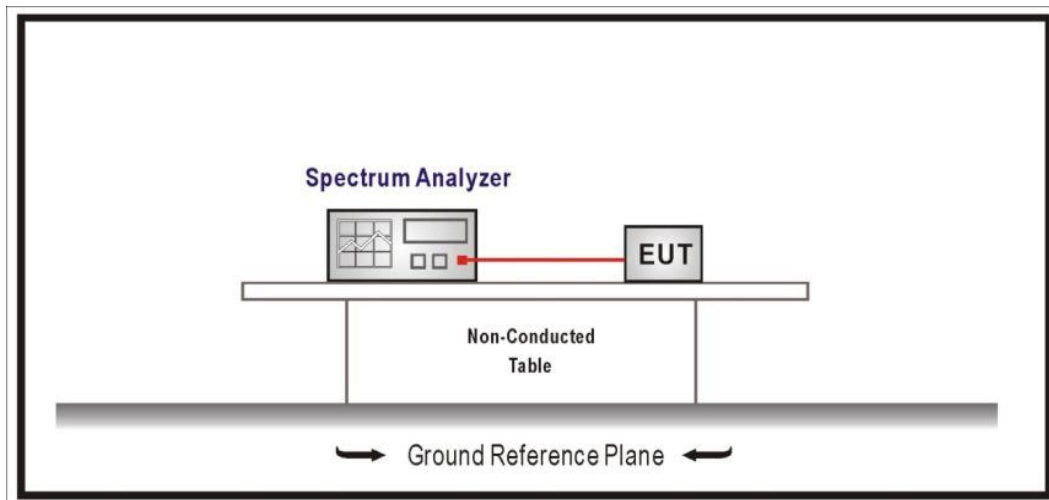
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

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.

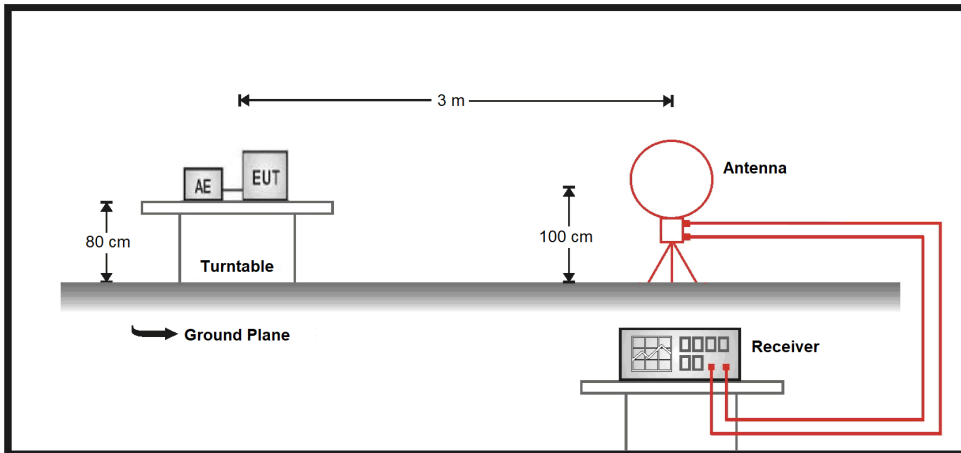
7.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix E

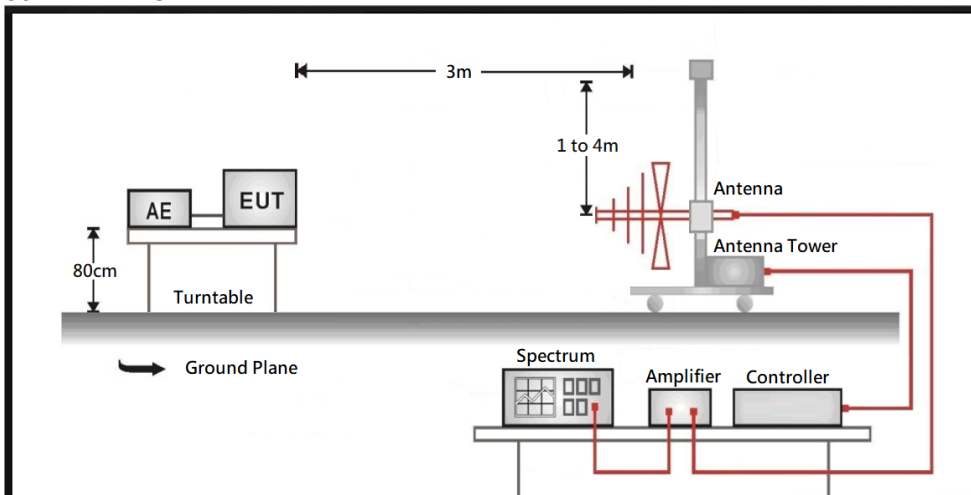
8. Transmitter Radiated Spurious Emission

8.1. Test Setup

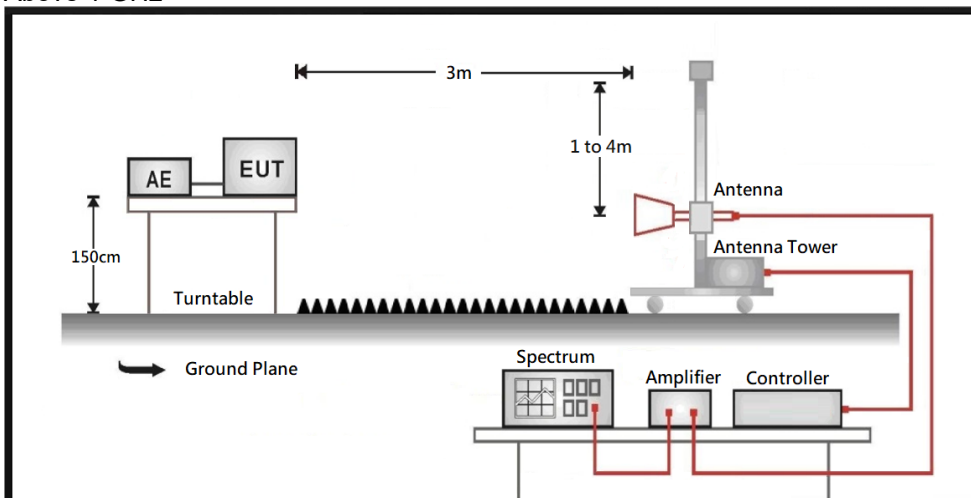
9 kHz ~ 30 MHz



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 from 9 kHz(include 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)

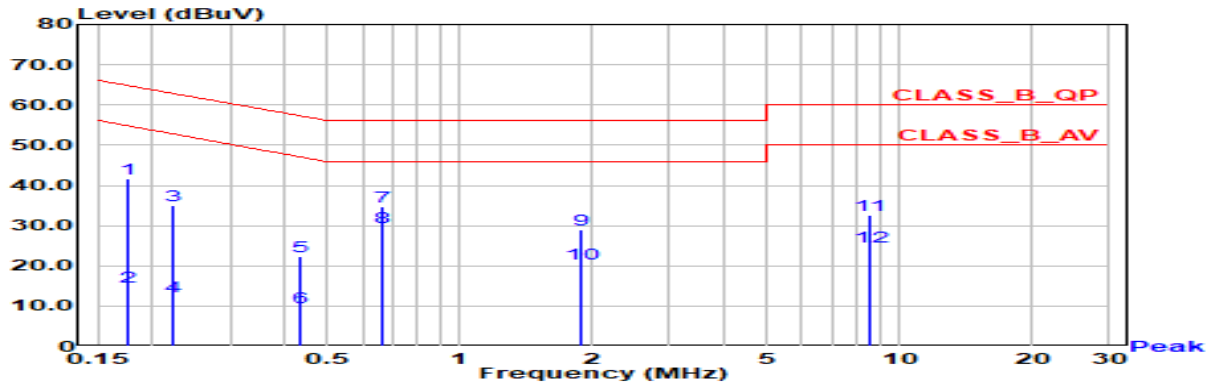
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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		

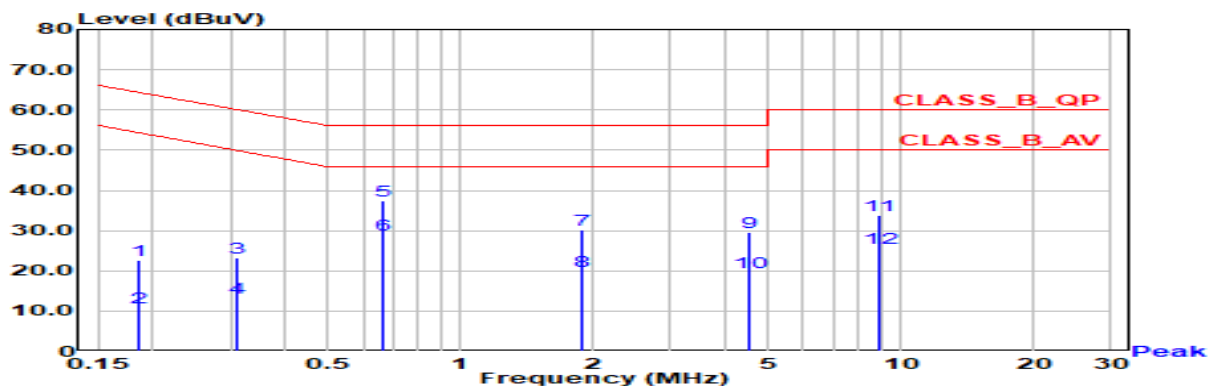


No	Frequency (MHz)	Emission Level (dBUV)	Limit (dBUV)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
1	0.177	41.80	64.64	-22.84	32.18	9.62	QP
2	0.177	14.92	54.64	-39.72	5.30	9.62	AV
3	0.221	35.01	62.78	-27.77	25.38	9.63	QP
4	0.221	12.51	52.78	-40.27	2.88	9.63	AV
5	0.435	22.26	57.17	-34.90	12.62	9.64	QP
6	0.435	9.76	47.17	-37.40	0.12	9.64	AV
*7	0.668	34.86	56.00	-21.14	25.19	9.67	QP
*8	0.668	29.55	46.00	-16.45	19.88	9.67	AV
9	1.897	29.10	56.00	-26.90	19.35	9.75	QP
10	1.897	20.49	46.00	-25.51	10.74	9.75	AV
11	8.546	32.55	60.00	-27.45	22.53	10.02	QP
12	8.546	24.66	50.00	-25.34	14.64	10.02	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		

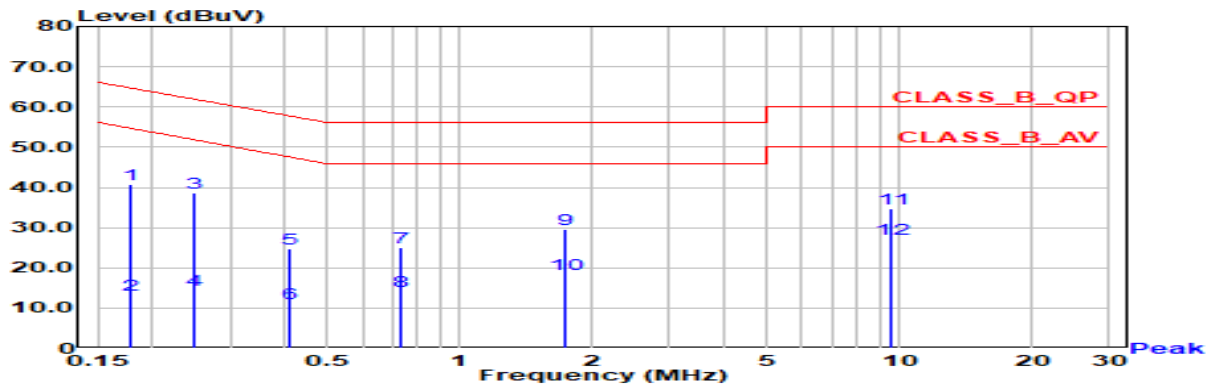


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.185	22.60	64.26	-41.65	12.98	9.62	QP
2	0.185	10.79	54.26	-43.47	1.17	9.62	AV
3	0.309	23.32	59.99	-36.67	13.69	9.63	QP
4	0.309	13.42	49.99	-36.57	3.79	9.63	AV
*5	0.670	37.41	56.00	-18.59	27.74	9.67	QP
*6	0.670	28.98	46.00	-17.02	19.31	9.67	AV
7	1.878	30.04	56.00	-25.96	20.28	9.76	QP
8	1.878	19.84	46.00	-26.16	10.08	9.76	AV
9	4.550	29.57	56.00	-26.43	19.68	9.89	QP
10	4.550	19.52	46.00	-26.48	9.63	9.89	AV
11	8.940	33.69	60.00	-26.31	23.62	10.08	QP
12	8.940	25.64	50.00	-24.36	15.56	10.08	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		

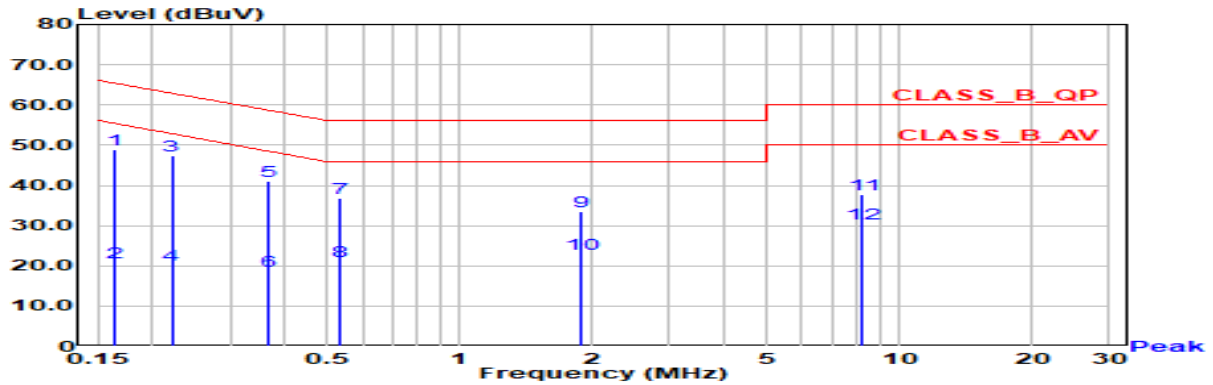


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.179	40.72	64.54	-23.82	31.09	9.62	QP
2	0.179	13.39	54.54	-41.14	3.77	9.62	AV
3	0.247	38.69	61.84	-23.15	29.06	9.63	QP
4	0.247	14.64	51.84	-37.21	5.01	9.63	AV
5	0.407	24.89	57.70	-32.81	15.25	9.64	QP
6	0.407	11.15	47.70	-36.55	1.51	9.64	AV
7	0.738	25.03	56.00	-30.97	15.35	9.67	QP
8	0.738	14.25	46.00	-31.75	4.58	9.67	AV
9	1.726	29.62	56.00	-26.38	19.88	9.74	QP
10	1.726	18.51	46.00	-27.49	8.76	9.74	AV
11	9.597	34.63	60.00	-25.37	24.57	10.06	QP
*12	9.597	27.02	50.00	-22.98	16.97	10.06	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	Neutral
Test Condition	WIFI_2.4G		

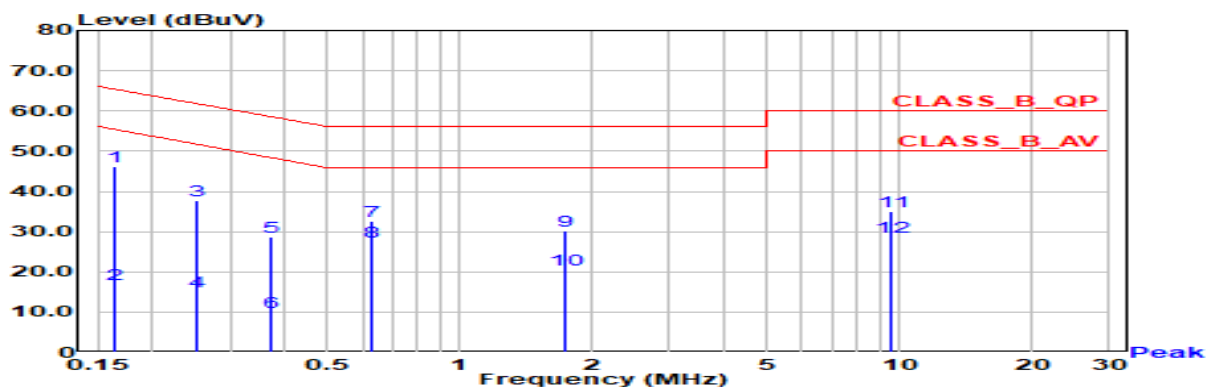


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.163	48.91	65.30	-16.39	39.29	9.62	QP
2	0.163	20.78	55.30	-34.52	11.16	9.62	AV
*3	0.221	47.34	62.79	-15.45	37.71	9.63	QP
4	0.221	20.29	52.79	-32.50	10.67	9.63	AV
5	0.365	40.95	58.61	-17.66	31.31	9.64	QP
6	0.365	18.59	48.61	-30.02	8.95	9.64	AV
7	0.530	36.86	56.00	-19.14	27.20	9.66	QP
8	0.530	21.07	46.00	-24.93	11.41	9.66	AV
9	1.882	33.36	56.00	-22.64	23.60	9.76	QP
10	1.882	22.87	46.00	-23.13	13.11	9.76	AV
11	8.230	37.86	60.00	-22.14	27.81	10.05	QP
12	8.230	30.36	50.00	-19.64	20.31	10.05	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 3	Phase	Line
Test Condition	WIFI_2.4G		

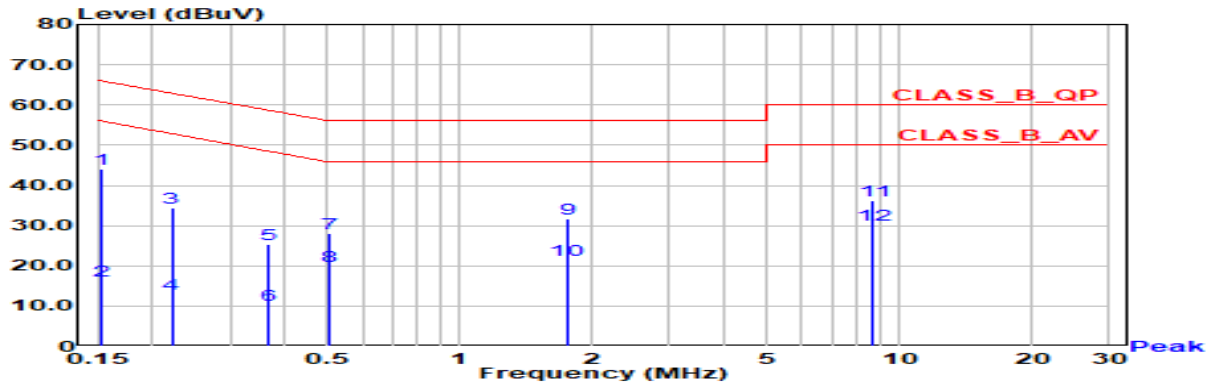


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.165	46.29	65.21	-18.93	36.66	9.62	QP
2	0.165	16.88	55.21	-38.33	7.26	9.62	AV
3	0.252	37.88	61.69	-23.80	28.26	9.63	QP
4	0.252	15.14	51.69	-36.54	5.51	9.63	AV
5	0.369	28.75	58.51	-29.76	19.11	9.64	QP
6	0.369	9.92	48.51	-38.60	0.28	9.64	AV
7	0.630	32.55	56.00	-23.45	22.89	9.66	QP
*8	0.630	27.49	46.00	-18.51	17.83	9.66	AV
9	1.726	30.23	56.00	-25.77	20.49	9.74	QP
10	1.726	20.52	46.00	-25.48	10.78	9.74	AV
11	9.596	35.03	60.00	-24.97	24.97	10.06	QP
12	9.596	28.77	50.00	-21.23	18.71	10.06	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 3	Phase	Neutral
Test Condition	WIFI_2.4G		



No	Frequency (MHz)	Emission Level (dBUV)	Limit (dBUV)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
1	0.153	44.03	65.81	-21.78	34.41	9.62	QP
2	0.153	16.35	55.81	-39.47	6.73	9.62	AV
3	0.221	34.33	62.79	-28.46	24.70	9.63	QP
4	0.221	12.93	52.79	-39.86	3.30	9.63	AV
5	0.365	25.23	58.61	-33.38	15.59	9.64	QP
6	0.365	10.21	48.61	-38.40	0.57	9.64	AV
7	0.506	28.01	56.00	-27.99	18.36	9.65	QP
8	0.506	20.05	46.00	-25.95	10.40	9.65	AV
9	1.748	31.61	56.00	-24.39	21.86	9.75	QP
10	1.748	21.39	46.00	-24.61	11.63	9.75	AV
11	8.718	36.16	60.00	-23.84	26.09	10.07	QP
*12	8.718	30.04	50.00	-19.96	19.98	10.07	AV

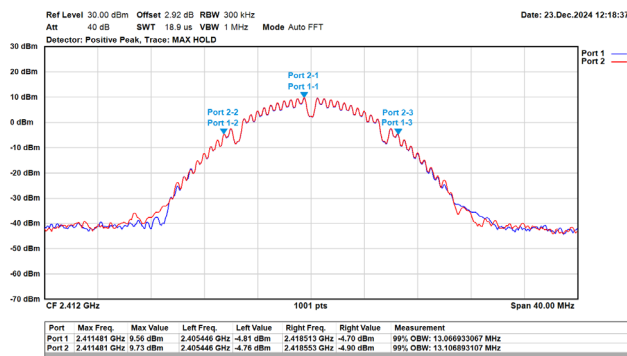
Note:

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.

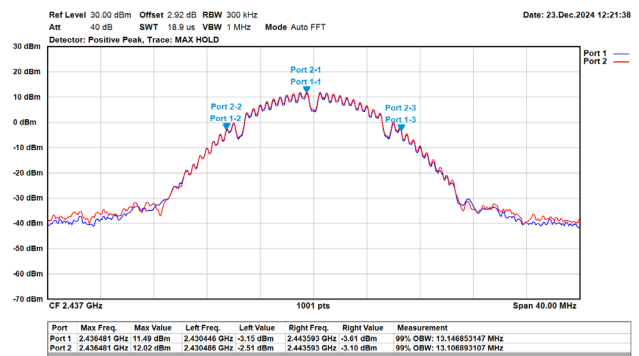
Appendix B.1 Test Result of Occupied Bandwidth

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Limit (MHz)
		Ant. 1	Ant. 2	
802.11b	2412	13.07	13.11	-
	2437	13.15	13.11	-
	2462	13.11	13.11	-
802.11g	2412	16.30	16.30	-
	2437	16.30	16.34	-
	2462	16.26	16.34	-
802.11ax (20MHz)	2412	18.86	18.90	-
	2437	18.86	18.86	-
	2462	18.90	18.82	-
802.11ax (40MHz)	2422	37.80	37.80	-
	2437	37.72	37.96	-
	2452	37.80	37.72	-

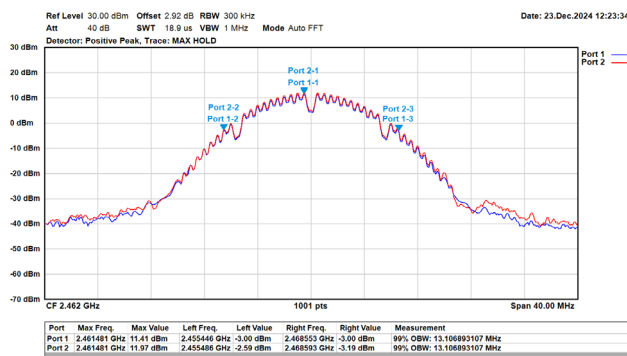
802.11b/20MHz/1M/2412MHz/Ch1



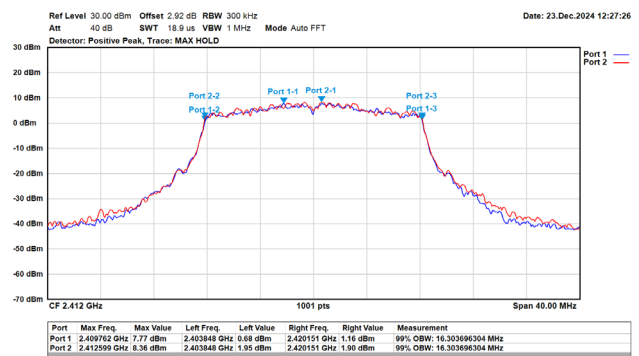
802.11b/20MHz/1M/2437MHz/Ch6



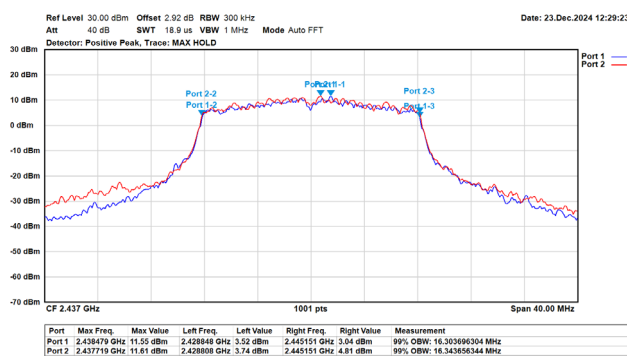
802.11b/20MHz/1M/2462MHz/Ch11



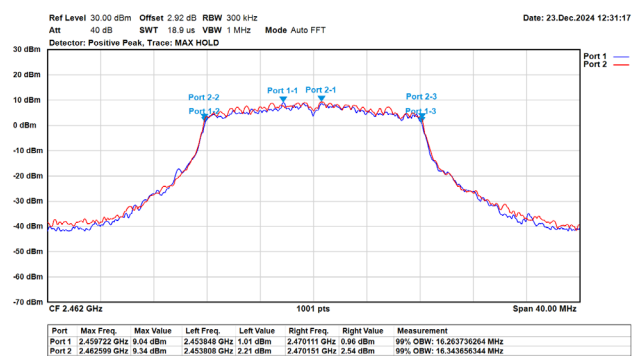
802.11g/20MHz/6M/2412MHz/Ch1



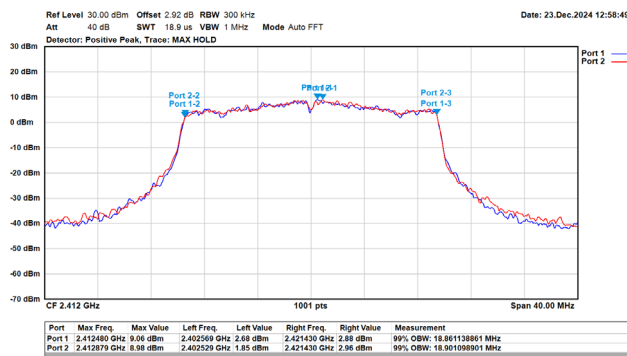
802.11g/20MHz/6M/2437MHz/Ch6



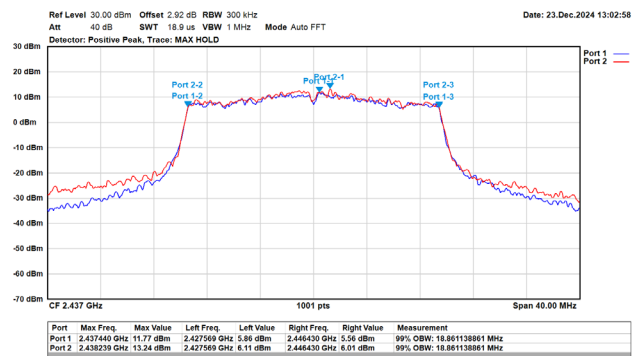
802.11g/20MHz/6M/2462MHz/Ch11



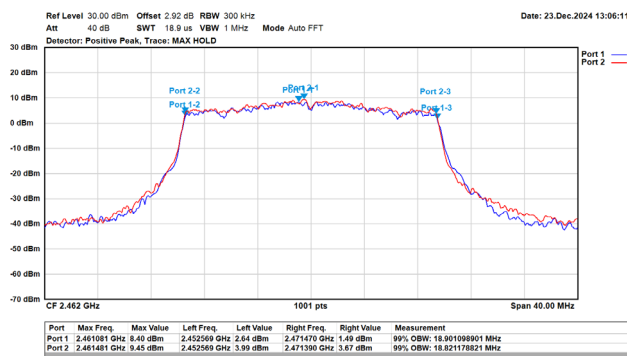
802.11ax/20MHz/MCS0/2412MHz/Ch1



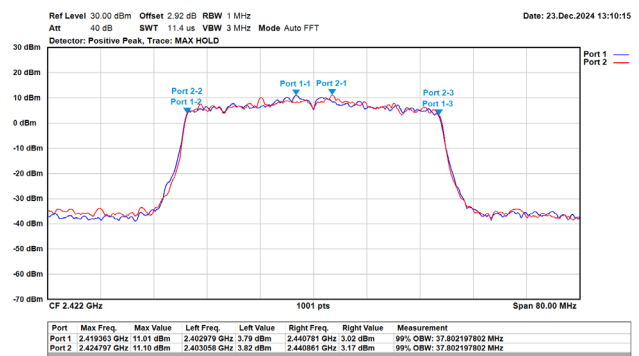
802.11ax/20MHz/MCS0/2437MHz/Ch6



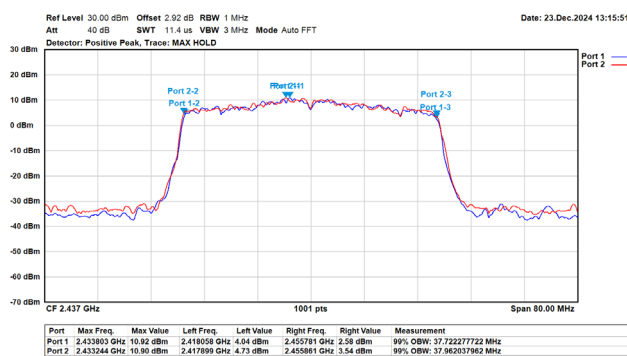
802.11ax/20MHz/MCS0/2462MHz/Ch11



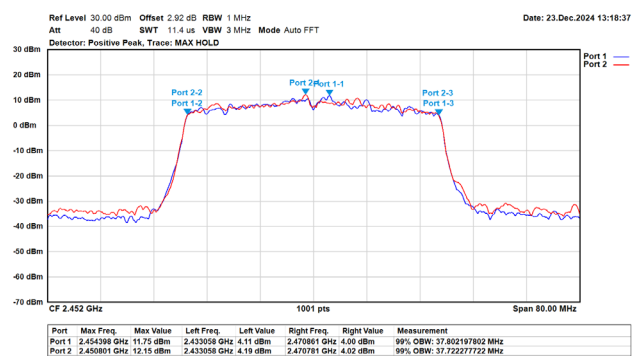
802.11ax/40MHz/MCS0/2422MHz/Ch3



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



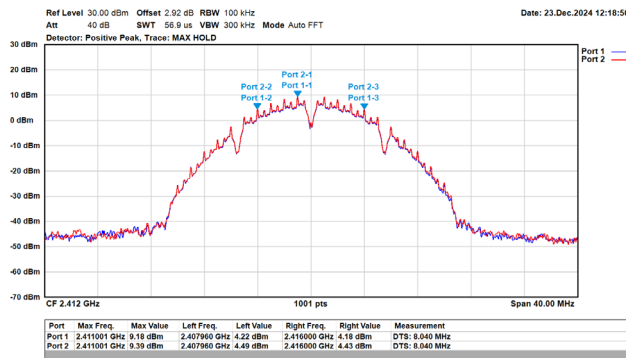
802.11ax/40MHz/MCS0/2452MHz/Ch9



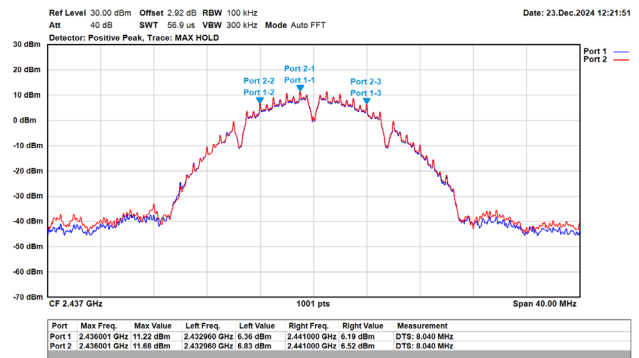
Appendix B.2 Test Result of DTS Bandwidth

Modulation	Frequency (MHz)	DTS Bandwidth (MHz)		Limit (MHz)	Result
		Ant. 1	Ant. 2		
802.11b	2412	8.04	8.04	0.50	Pass
	2437	8.04	8.04	0.50	Pass
	2462	8.04	8.04	0.50	Pass
802.11g	2412	15.12	15.12	0.50	Pass
	2437	15.12	15.08	0.50	Pass
	2462	15.08	15.12	0.50	Pass
802.11ax (20MHz)	2412	16.68	18.00	0.50	Pass
	2437	15.00	18.32	0.50	Pass
	2462	18.88	18.76	0.50	Pass
802.11ax (40MHz)	2422	36.96	35.12	0.50	Pass
	2437	36.32	35.12	0.50	Pass
	2452	37.92	33.76	0.50	Pass

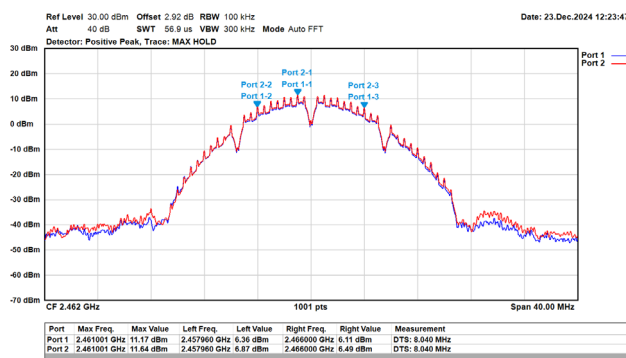
802.11b/20MHz/1M/2412MHz/Ch1



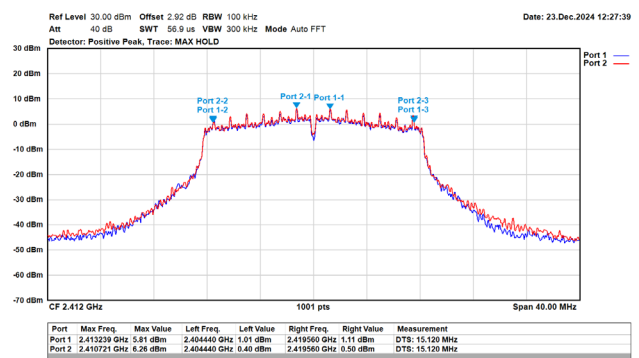
802.11b/20MHz/1M/2437MHz/Ch6



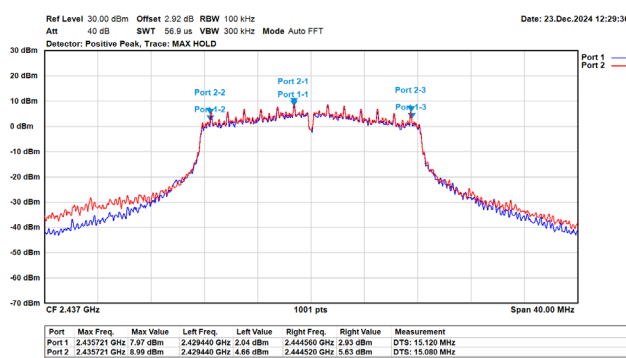
802.11b/20MHz/1M/2462MHz/Ch11



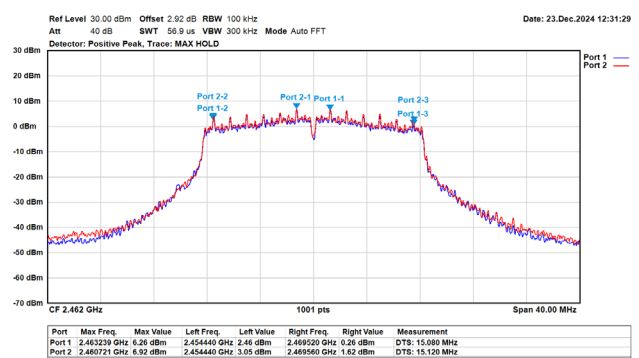
802.11g/20MHz/6M/2412MHz/Ch1



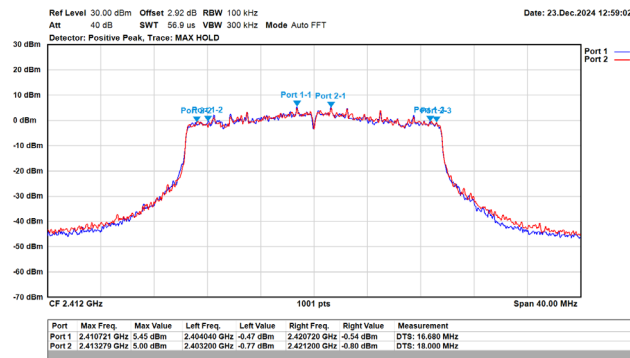
802.11g/20MHz/6M/2437MHz/Ch6



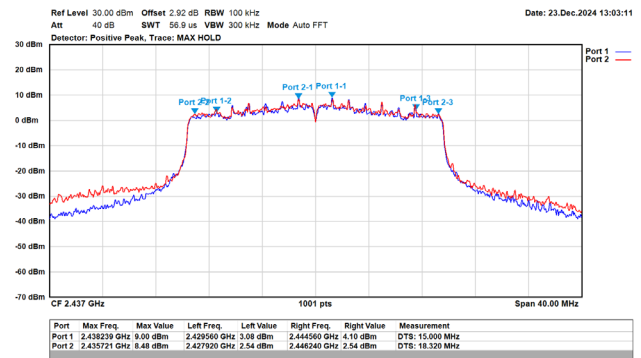
802.11g/20MHz/6M/2462MHz/Ch11



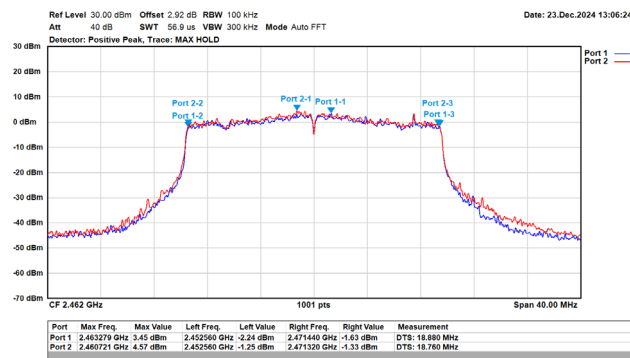
802.11ax/20MHz/MCS0/2412MHz/Ch1



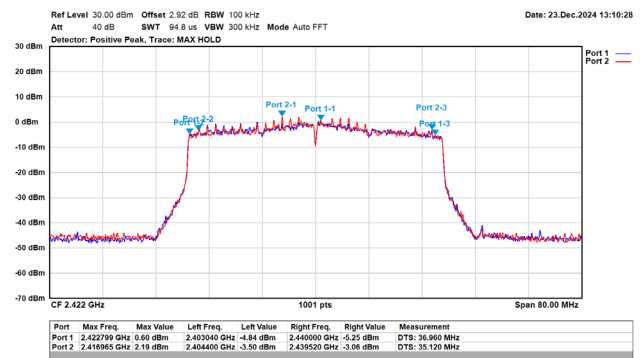
802.11ax/20MHz/MCS0/2437MHz/Ch6



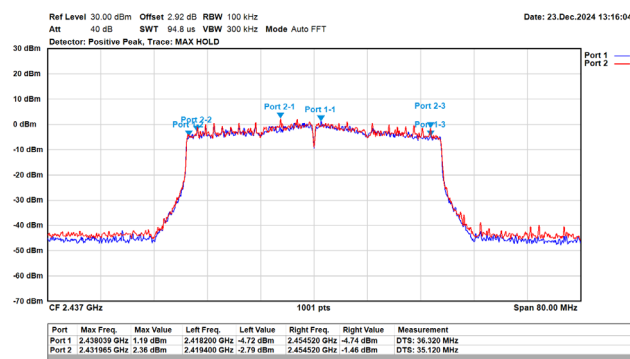
802.11ax/20MHz/MCS0/2462MHz/Ch11



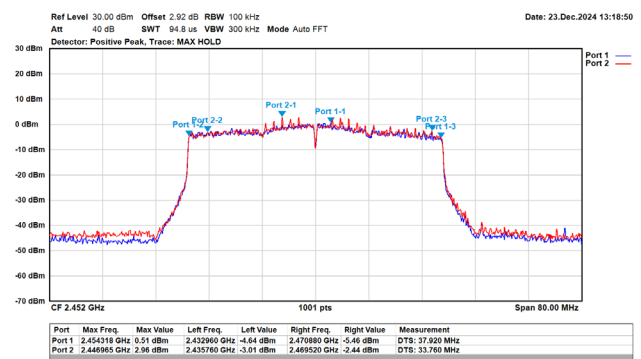
802.11ax/40MHz/MCS0/2422MHz/Ch3



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



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



Appendix C. Test Result of Maximum Conducted Output Power

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	11.840	12.130	14.998	30.000	3.060	18.058	36.000
	2437	11.630	12.380	15.031	30.000	3.060	18.091	36.000
	2462	11.390	12.210	14.830	30.000	3.060	17.890	36.000
802.11g	2412	11.820	12.170	15.009	30.000	3.060	18.069	36.000
	2437	11.620	12.450	15.065	30.000	3.060	18.125	36.000
	2462	11.330	12.220	14.808	30.000	3.060	17.868	36.000
802.11ax (20 MHz)	2412	12.310	12.470	15.401	30.000	3.060	18.461	36.000
	2437	11.470	12.280	14.904	30.000	3.060	17.964	36.000
	2462	11.620	12.430	15.054	30.000	3.060	18.114	36.000
802.11ax (40 MHz)	2422	11.860	12.460	15.181	30.000	3.060	18.241	36.000
	2437	11.830	12.480	15.177	30.000	3.060	18.237	36.000
	2452	11.390	12.420	14.946	30.000	3.060	18.006	36.000

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

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	2412	-12.81	-12.36	-9.37	8.00	Pass
	2437	-12.49	-12.01	-9.18	8.00	Pass
	2462	-12.87	-11.80	-9.09	8.00	Pass
802.11g	2412	-15.35	-15.65	-12.08	8.00	Pass
	2437	-15.40	-15.04	-12.05	8.00	Pass
	2462	-15.84	-15.19	-12.22	8.00	Pass
802.11ax (20MHz)	2412	-16.73	-16.52	-13.89	8.00	Pass
	2437	-17.30	-16.80	-14.26	8.00	Pass
	2462	-17.10	-16.05	-13.76	8.00	Pass
802.11ax (40MHz)	2422	-19.84	-18.65	-16.13	8.00	Pass
	2437	-19.78	-19.10	-16.63	8.00	Pass
	2452	-20.03	-18.99	-16.77	8.00	Pass

Note: Total is the worst result of multiple output bin-by-bin.

