



TEST REPORT

Reference No...... : WTF26F04101361W001
FCC ID : 2BWRNHAIER120
Applicant..... : Fujian Elsonic Energy-Saving Equipment Co., LTD
Address..... : No. 23 Long Gong Road, Economic Development Zone, Longyan city,
Fujian, China
Manufacturer : Fujian Elsonic Energy-Saving Equipment Co., LTD
Address..... : No. 23 Long Gong Road, Economic Development Zone, Longyan city,
Fujian, China
Product Name..... : Controller
Model No...... : HW-PC201AFT(BW)
Test specification..... : FCC CFR47 Part 15 Subpart C (Section 15.247)
Date of Receipt sample : 2026-05-08
Date of Test : 2026-05-12 to 2026-05-25
Date of Issue..... : 2026-06-16
Test Report Form No. : WEW-15247A-01B
Test Result..... **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

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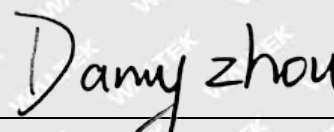
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Tested by:



Jess Chen

Approved by:



Danny Zhou



1 Revision History

Test Report No.	Date of Issue	Description	Status
WTF26F04101361W001	2026-06-16	Original	Valid

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3 General Information

3.1 General Description of E.U.T

Product Name : Controller
Model No. : HW-PC201AFT(BW)
Model Description : ---
Rating : Input Port 1: AC 12V
Input Port 2: DC 24V

3.2 Technical Characteristics of EUT

Support Standards : 802.11b, 802.11g, 802.11n
Frequency Range : 2412-2462MHz for 802.11b/g/n(HT20)
RF Output Power : 15.31dBm (Conducted)
Modulation : 802.11b: DSSS(DBPSK/DQPSK/CCK)
802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)
Data Rate : 1Mbps for 802.11b; 54Mbps for 802.11g; MCS7 for 802.11n
Quantity of Channels : 11 for 802.11b/g/n(HT20)
Channel Separation : 5MHz
Type of Antenna : PCB Antenna
Antenna Gain : -5.15dBi (Declared by the manufacturer)

3.3 Standards Applicable for Testing

The tests were performed according to following standards:

FCC Rules Part 15.247	Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
558074 D01 15.247 Meas Guidance v05r02	Guidance For Compliance Measurements On Digital Transmission System, Frequency Hopping Spread Spectrum System, And Hybrid System Devices Operating Under Section 15.247 Of The FCC Rules
662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
ANSI C63.10-2020 +C1:2023	American National Standard for Testing Unlicensed Wireless Devices



3.4 Test Facility

The test facility has a test site registered with the following organizations:

- **ISED – Registration No.: 21895**

Waltek Testing Group (Foshan) Co., Ltd. has been registered and fully described in a report filed with the Innovation, Science and Economic Development Canada (ISED). The acceptance letter from the ISED is maintained in our files. Registration ISED number: 21895.

- **FCC – Registration No.: 820106**

Waltek Testing Group (Foshan) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 820106.

- **FCC – Designation No.: CN5034**

Waltek Testing Group (Foshan) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation No. CN5034.

- **NVLAP – Lab Code: 600191-0**

Waltek Testing Group (Foshan) Co., Ltd. EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 600191-0.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

3.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test items: ---

Lab information: ---

3.6 Abnormalities from Standard Conditions

None.



4 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List

Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz, High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz, High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz, High:2462MHz

Test Conditions

Temperature:	22~25°C
Relative Humidity:	50~55%
Atmospheric pressure:	101.8kPa

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5 Equipment Used during Test

5.1 Equipment List

☒ Conducted Emissions 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	EMI Test Receiver	R&S	ESR3	102423	2026-01-04	2027-01-03
2.	LISN	R&S	ENV216	101343	2026-01-04	2027-01-03
3.	Cable	HUBER+SUHNER	CBL2-NN-6M	223NN624	2026-01-04	2027-01-03
4.	Switch	CD	RSU-A4 18G	RSUA4008	2026-01-04	2027-01-03
☐ Conducted Emissions 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	EMI Test Receiver	R&S	ESCI	101178	2026-01-04	2027-01-03
2.	LISN	R&S	ENV216	101215	2026-01-04	2027-01-03
3.	Cable 22	Times Microwave Systems	LMR195UF-BMNM-5.00M	---	2026-01-04	2027-01-03
4.	Switch	ESE	RSU/M2	---	2026-01-04	2027-01-03
☐ Conducted Emissions 3#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	EMI Test Receiver	R&S	ESR3	102842	2026-01-04	2027-01-03
2.	LISN	R&S	ENV216	101542	2026-01-04	2027-01-03
3.	Cable 12	YIHENG	LMR195UF-NMNM-2.5	---	2026-01-04	2027-01-03
4.	Manual RF Switch	Top Precision	SW-2	RSU0402	2026-01-04	2027-01-03
☒ Radiation Emissions (30MHz to 1GHz) 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	3m Semi-anechoic Chamber	CHANGCHUANG	9m×6m×6m	-	2024-01-05	2027-01-04
2.	EMI Test Receiver	R&S	ESR7	101566	2026-01-04	2027-01-03
3.	Trilog Broadband Antenna	SCHWARZBECK	VULB9162	9162-117	2026-01-10	2027-01-09
4.	Coaxial Cable (below 1GHz)	Times Microwave Systems	RG223-NMNM-10M	-	2026-01-04	2027-01-03
☐ Radiation Emissions (30MHz to 1GHz) 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	3m Semi-anechoic Chamber	YIHENG	9m×6m×6m	YH2021071801	2024-01-06	2027-01-05
2.	EMI Test Receiver	R&S	ESR7	102454	2026-01-04	2027-01-03
3.	Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	01418	2026-02-08	2027-02-07
4.	Cable 14	YIHENG	LMR240UF-NMSM-7.5	---	2026-01-04	2027-01-03



☒ Radiation Emissions (1GHz to 25GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	3m Semi-anechoic Chamber	CHANGCHUANG	9m×6m×6m	-	2024-01-05	2027-01-04
2.	Spectrum Analyzer	Agilent	N9020A	MY48011796	2026-01-05	2027-01-04
3.	Spectrum Analyzer	KEYSIGHT	N9020B	ATO-75355	2026-02-10	2027-02-09
4.	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	01561	2026-01-06	2027-01-05
5.	Coaxial Cable (above 1GHz)	Times-Microwave	CBL5-NN	-	2026-01-04	2027-01-03
6.	Broadband Preamplifier (Above 1GHz)	Lunar E M	LNA1G18-40	20160501002	2026-01-05	2027-01-04
7.	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	01119	2026-01-06	2027-01-05
8.	Broadband Preamplifier	Tonscend	TPA18040048	AP211806161	2026-01-06	2027-01-05
9.	Coaxial Cable	Times Microwave Systems	HF160-KMKM-5	-	2026-01-04	2027-01-03
☒ RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	Spectrum Analyzer	Agilent	N9020A	MY48011796	2026-01-05	2027-01-04
2.	EXG Analog Signal Generator	Agilent	N5181A	MY48180720	2026-01-05	2027-01-04
3.	RF Control Unit	CHANGCHUANG	JS0806-2	-	2026-01-05	2027-01-04

☐: Not Used

☒: Used

5.2 Test Software

Description	Manufacturer	Model	Version
EMI Test Software (Conducted Emission 1#)	FARATRONIC	EZ-EMC	EMEC-3A1
EMI Test Software (Conducted Emission 2#)	FARATRONIC	EZ-CON	FARAD-3A1.1+
EMI Test Software (Conducted Emission 3#)	FARATRONIC	EZ-EMC	EMC-CON 3A1.1+
EMI Test Software (Radiated Emission)	FARATRONIC	EZ-EMC	RA-03A1-2
RF Conducted Test Software	TONSCEND	JS1120-2	V2.6



5.3 Special Accessories and Auxiliary Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.
1.	/	/	/	/

5.4 Measurement Uncertainty

Parameter	Uncertainty
RF Output Power	$\pm 2.2\text{dB}$
Occupied Bandwidth	$\pm 1.5\%$
Conducted Emission	$\pm 2.6\text{dB}$
Transmitter Spurious Emission	$\pm 3.8\text{dB}$ (for 25MHz-1GHz)
	$\pm 5.0\text{dB}$ (for 1GHz-25GHz)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

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6 Summary of Test Result

Test Items	FCC Rules	Result
Antenna Requirement	§15.203; §15.247(b)(4)(i)	Compliant
Restricted Band of Operation	§15.205	Compliant
Conducted Emissions	§15.207(a)	N/A
Radiated Spurious Emissions	§15.209(a)	Compliant
Power Spectral Density	§15.247(e)	Compliant
DTS Bandwidth	§ 15.247(a)(2)	Compliant
RF Output Power	§15.247(b)(3)	Compliant
Band edge (Out of Band Emissions)	§15.247(d)	Compliant

Remark:

Pass Test item meets the requirement

Fail Test item does not meet the requirement

N/A Test case does not apply to the test object

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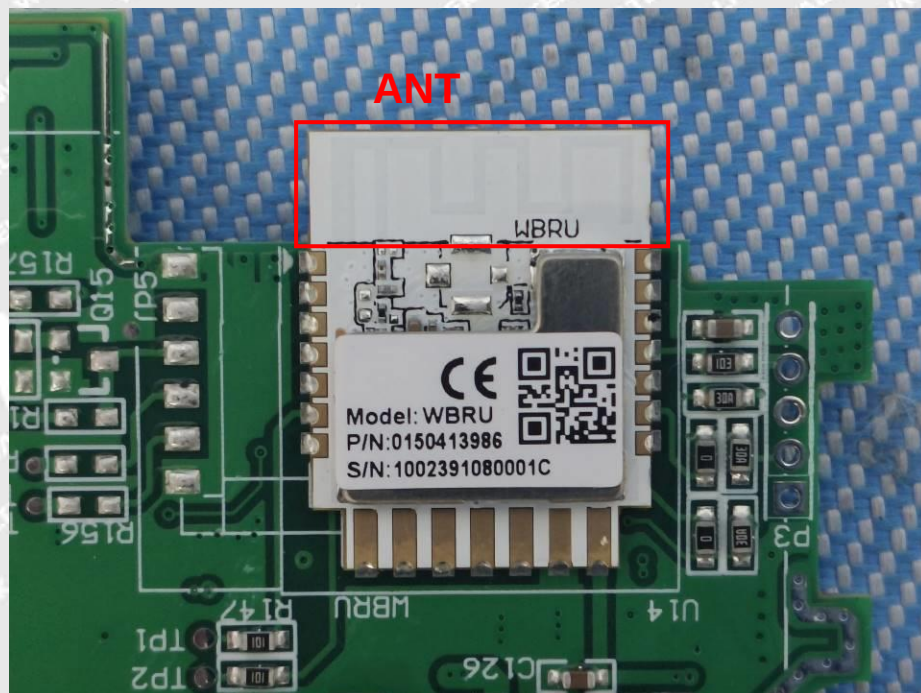
6.1 Antenna Requirement

6.1.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

6.1.2 Evaluation Information

The EUT has a PCB Antenna, the gain is -5.15dBi, fulfil the requirement of this section.





6.2 Radiated Spurious Emissions

6.2.1 Standard Applicable

According to §15.247(d), 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 limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

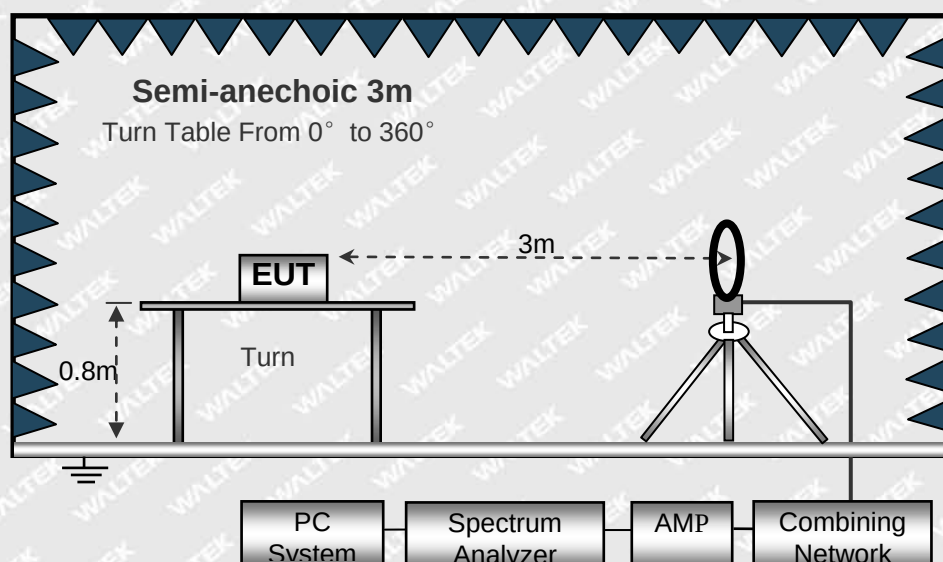
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

6.2.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020+C1 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

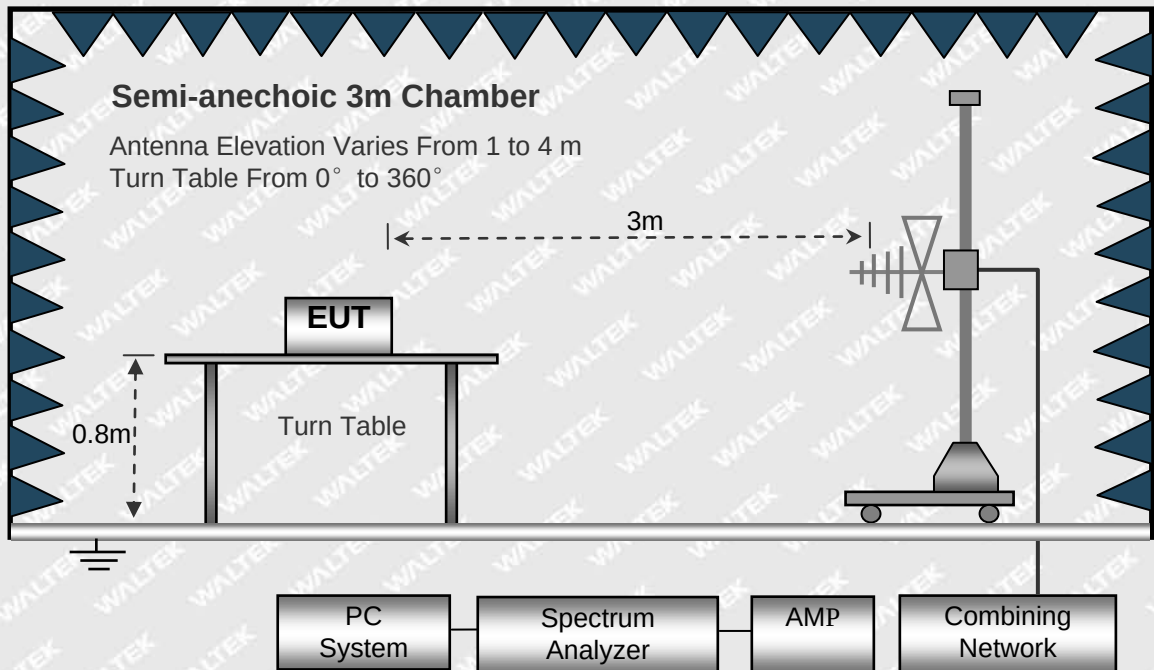
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

The test setup for emission measurement below 30MHz.

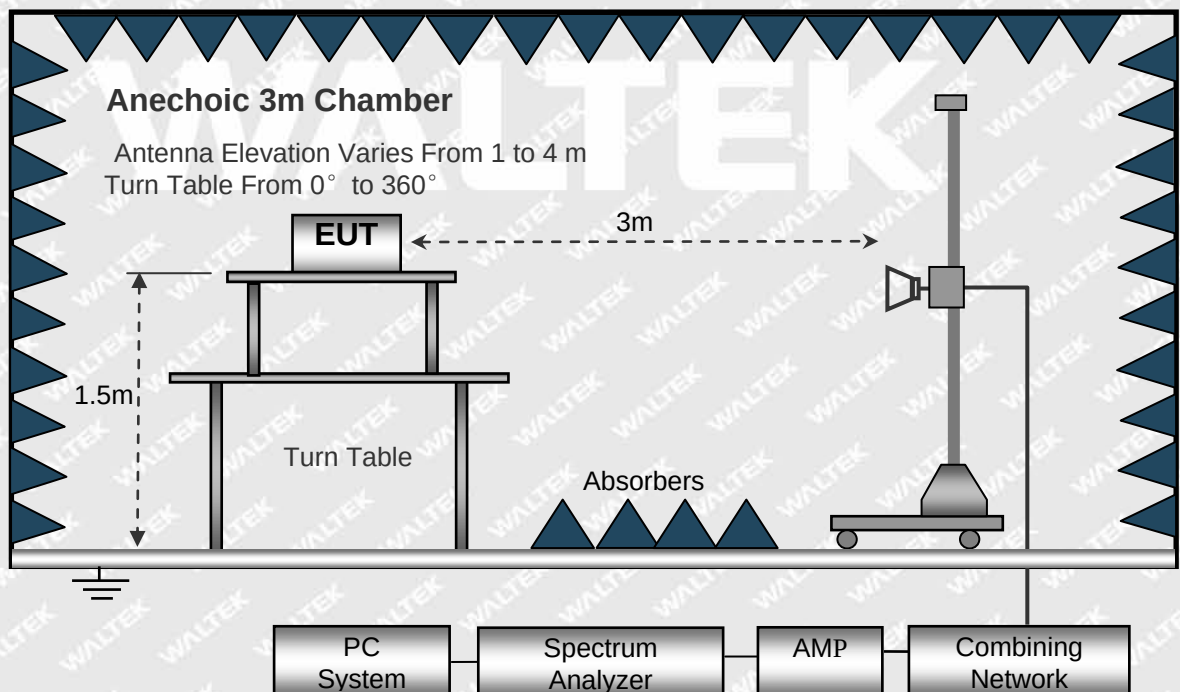




The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.





6.2.3 Spectrum Analyzer Setup

9KHz-30MHz

RBW=10kHz

VBW=30kHz

Sweep time=Auto

Trace=Max hold

Detector function=peak

30MHz-1GHz

RBW=120kHz

VBW=300kHz

Sweep time=Auto

Trace=Max hold

Detector function=peak, QP

Above 1GHz

RBW=1MHz

VBW=3MHz(Peak), 10MHz(AV)

Sweep time=Auto

Trace=Max hold

Detector function=peak, AV

6.2.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Corr. Factor}$$

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$



6.2.5 Test Results

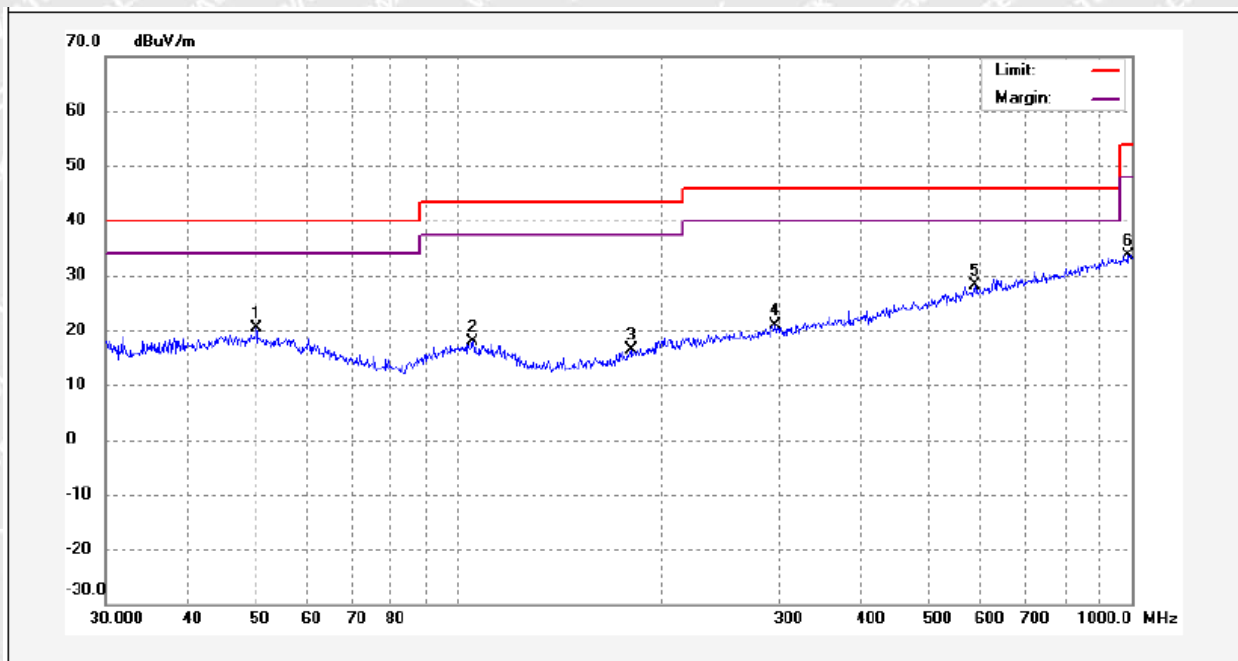
Note: All test modes (different data rate and different modulation) are performed, but only the worst case (which produces maximum emission) is recorded in this report.

Test Frequency 30MHz to 1GHz

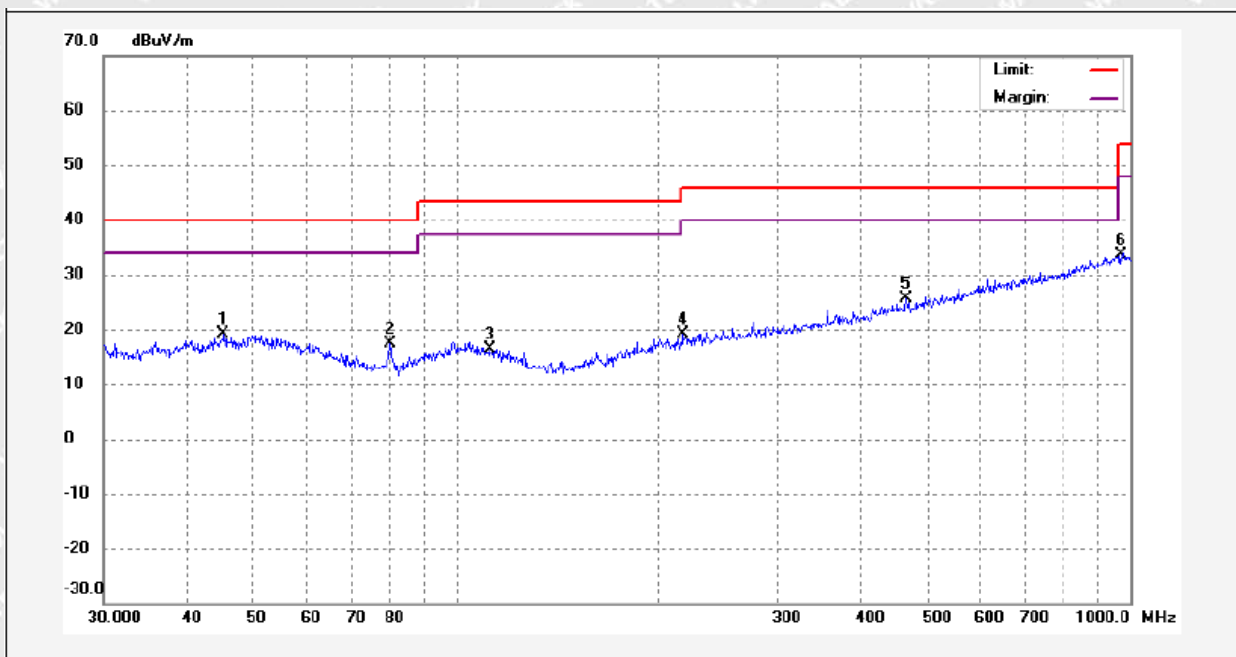
Test Mode 802.11b

Test Channel Low Channel

Polarization Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	50.3382	0.25	20.05	20.30	40.00	-19.70	peak	
2	105.5674	-0.73	18.71	17.98	43.50	-25.52	peak	
3	180.9658	-0.70	17.02	16.32	43.50	-27.18	peak	
4	296.5993	0.07	20.82	20.89	46.00	-25.11	peak	
5	585.6102	1.01	27.00	28.01	46.00	-17.99	peak	
6	990.5769	1.18	32.52	33.70	54.00	-20.30	peak	

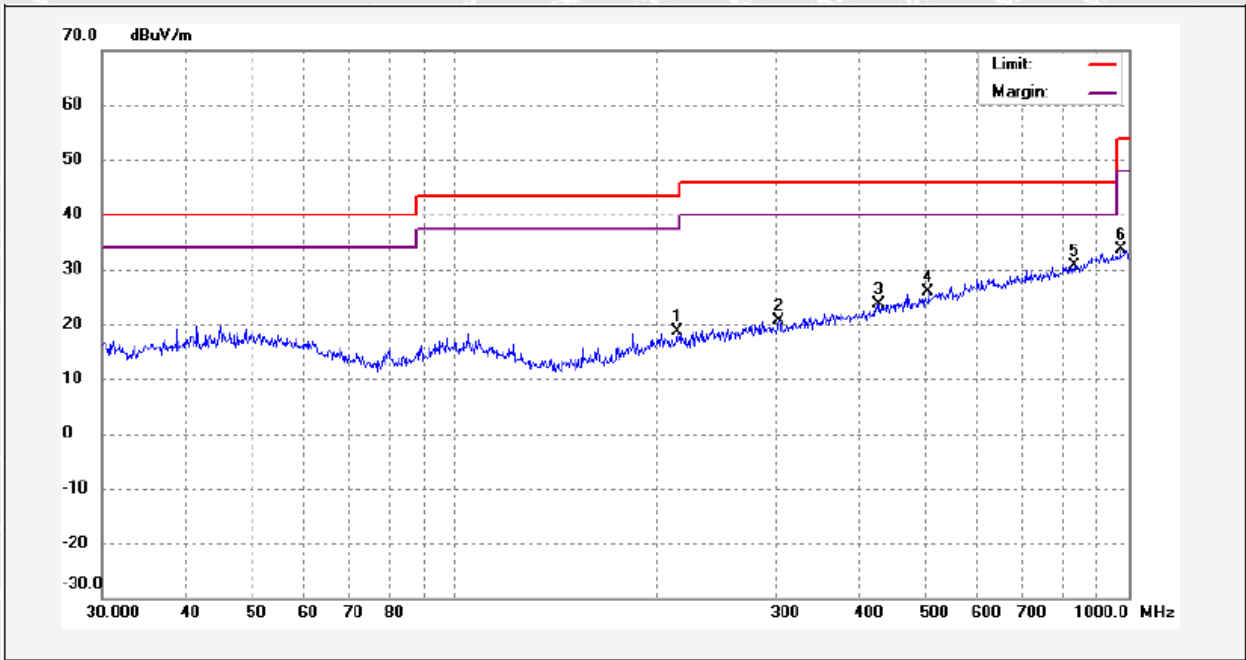
**Test Frequency** 30MHz to 1GHz**Test Mode** 802.11b**Test Channel** Low Channel**Polarization** Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	45.2166	-0.60	19.68	19.08	40.00	-20.92	peak	
2	79.9963	3.09	14.35	17.44	40.00	-22.56	peak	
3	112.2091	-1.78	18.19	16.41	43.50	-27.09	peak	
4	217.6969	0.26	18.85	19.11	46.00	-26.89	peak	
5	466.2529	1.00	24.66	25.66	46.00	-20.34	peak	
6	970.2937	1.31	32.20	33.51	54.00	-20.49	peak	



Test Frequency 30MHz to 1GHz
Test Channel Middle Channel

Test Mode 802.11b
Polarization Vertical

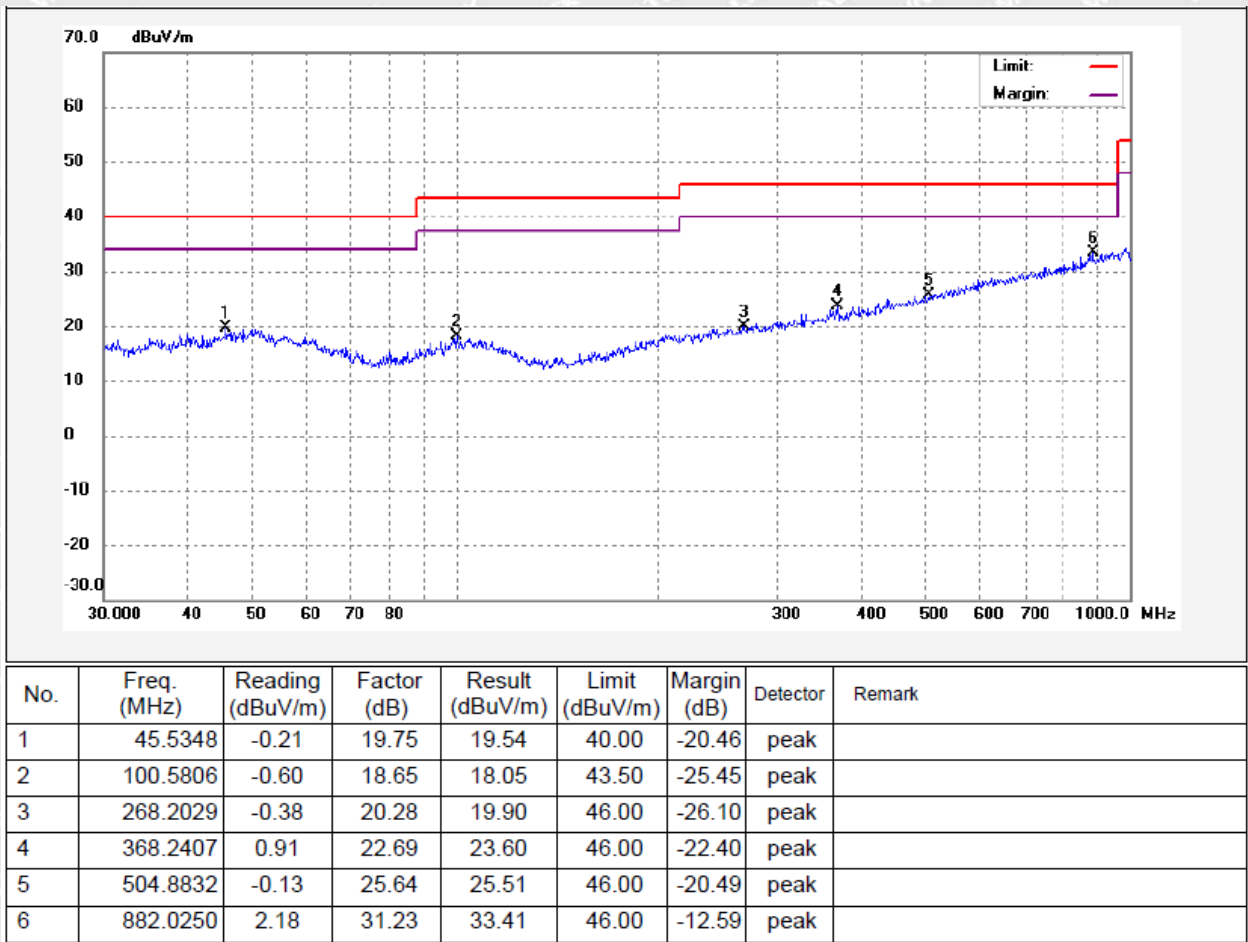


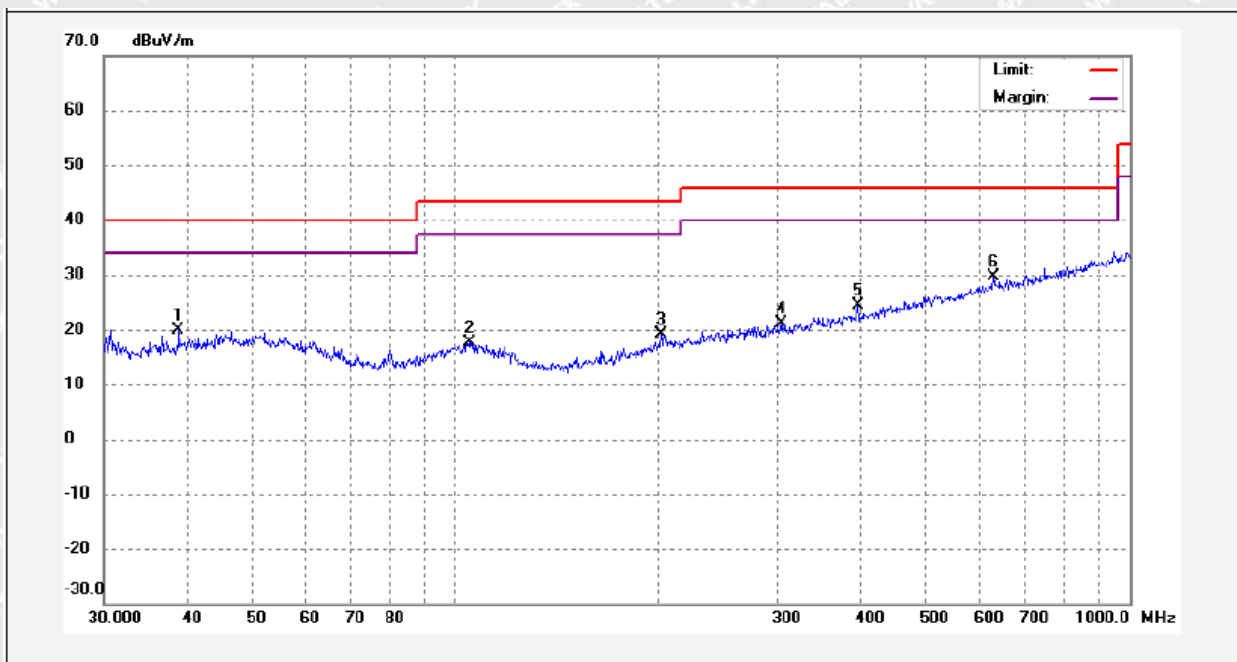
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	215.1169	-0.04	18.74	18.70	43.50	-24.80	peak	
2	303.4372	-0.43	21.04	20.61	46.00	-25.39	peak	
3	427.1197	-0.19	23.89	23.70	46.00	-22.30	peak	
4	505.7691	0.32	25.66	25.98	46.00	-20.02	peak	
5	833.3171	0.04	30.50	30.54	46.00	-15.46	peak	
6	975.7528	1.20	32.32	33.52	54.00	-20.48	peak	



Test Frequency 30MHz to 1GHz
Test Channel Middle Channel

Test Mode 802.11b
Polarization Horizontal



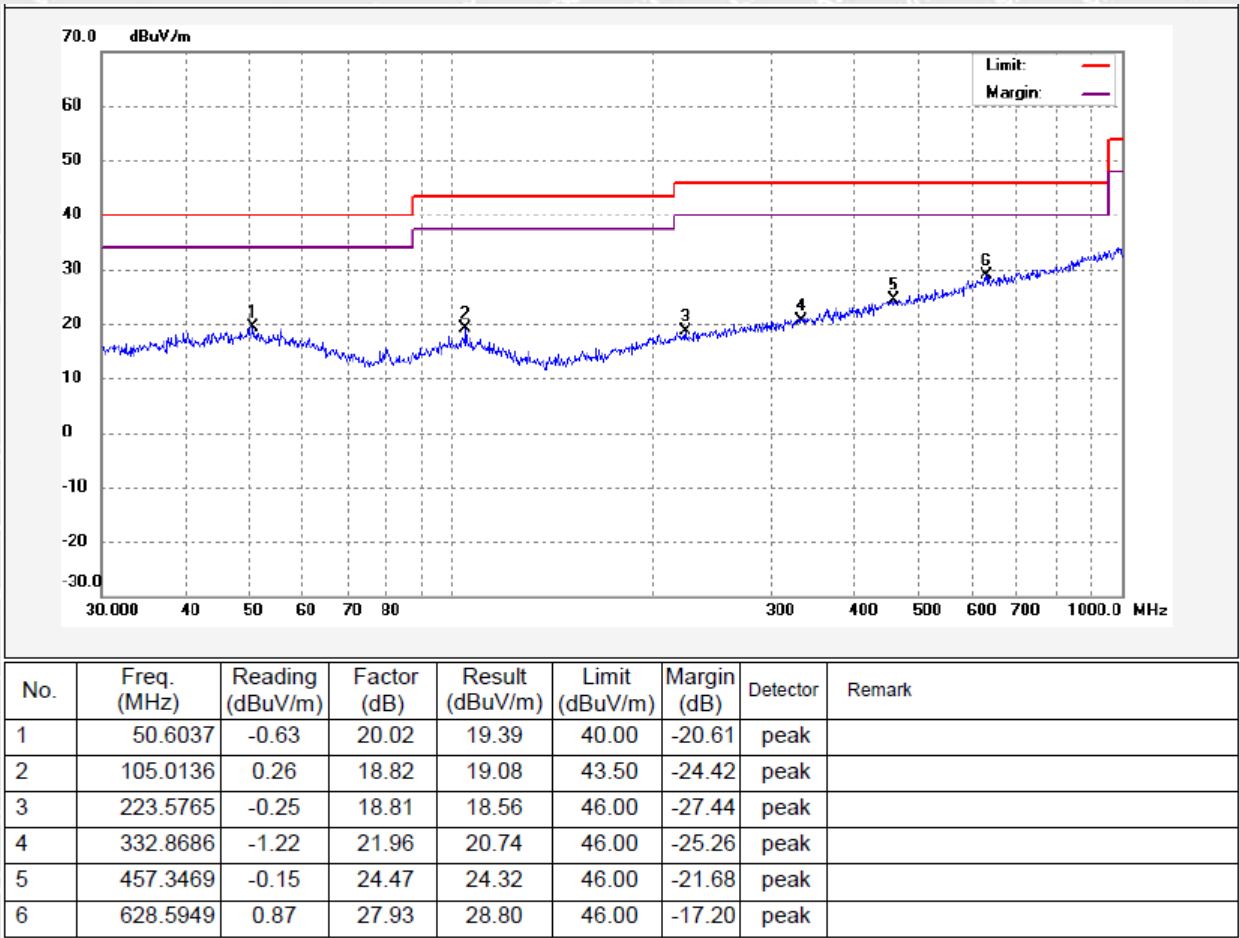
**Test Frequency** 30MHz to 1GHz**Test Mode** 802.11b**Test Channel** High Channel**Polarization** Vertical

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	38.8469	1.33	18.45	19.78	40.00	-20.22	peak	
2	105.2717	-1.13	18.77	17.64	43.50	-25.86	peak	
3	201.8171	0.28	18.79	19.07	43.50	-24.43	peak	
4	304.5031	0.13	21.07	21.20	46.00	-24.80	peak	
5	395.8249	1.01	23.28	24.29	46.00	-21.71	peak	
6	628.8153	1.77	27.92	29.69	46.00	-16.31	peak	



Test Frequency 30MHz to 1GHz
Test Channel High Channel

Test Mode 802.11b
Polarization Horizontal



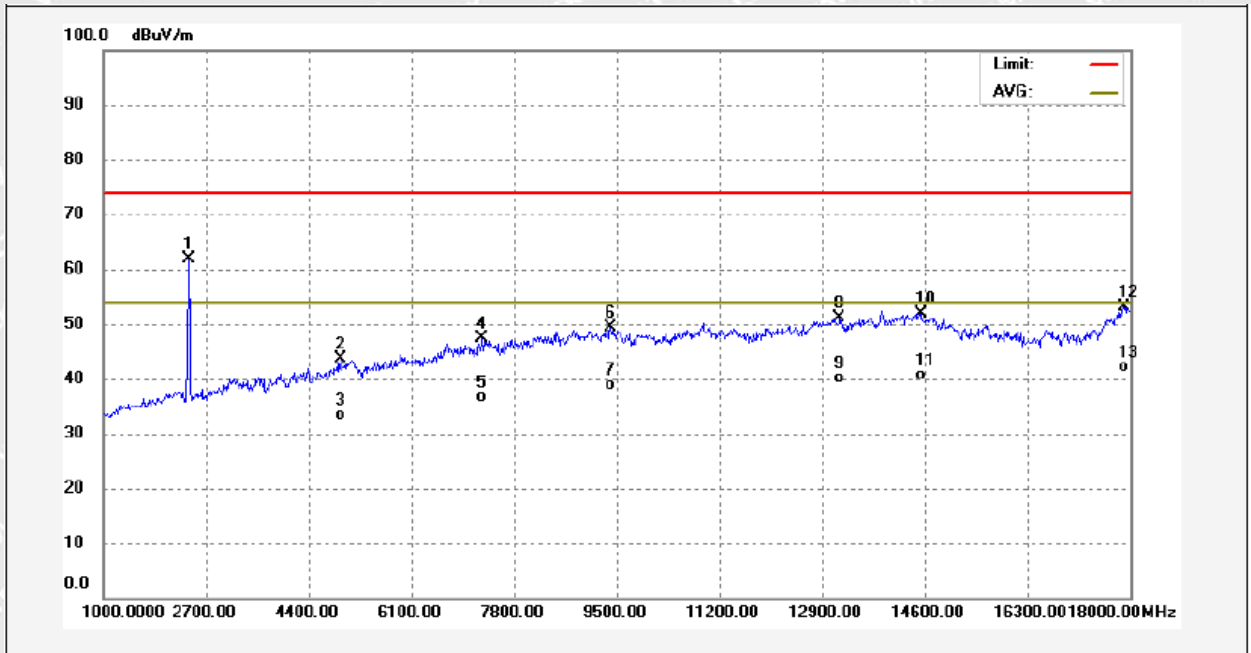


Test Frequency 1GHz to 18GHz

Test Mode 802.11b

Test Channel Low Channel

Polarization Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2412.000	84.61	-22.83	61.78	74.00	-12.22	peak	
2	4927.000	60.37	-16.69	43.68	74.00	-30.32	peak	
3	4927.000	49.98	-16.69	33.29	54.00	-20.71	AVG	
4	7273.000	59.67	-12.25	47.42	74.00	-26.58	peak	
5	7273.000	48.92	-12.25	36.67	54.00	-17.33	AVG	
6	9398.000	57.91	-8.61	49.30	74.00	-24.70	peak	
7	9398.000	47.48	-8.61	38.87	54.00	-15.13	AVG	
8	13189.000	56.35	-5.23	51.12	74.00	-22.88	peak	
9	13189.000	45.32	-5.23	40.09	54.00	-13.91	AVG	
10	14532.000	56.66	-4.78	51.88	74.00	-22.12	peak	
11	14532.000	45.41	-4.78	40.63	54.00	-13.37	AVG	
12	17898.000	55.68	-2.66	53.02	74.00	-20.98	peak	
13	17898.000	44.91	-2.66	42.25	54.00	-11.75	AVG	

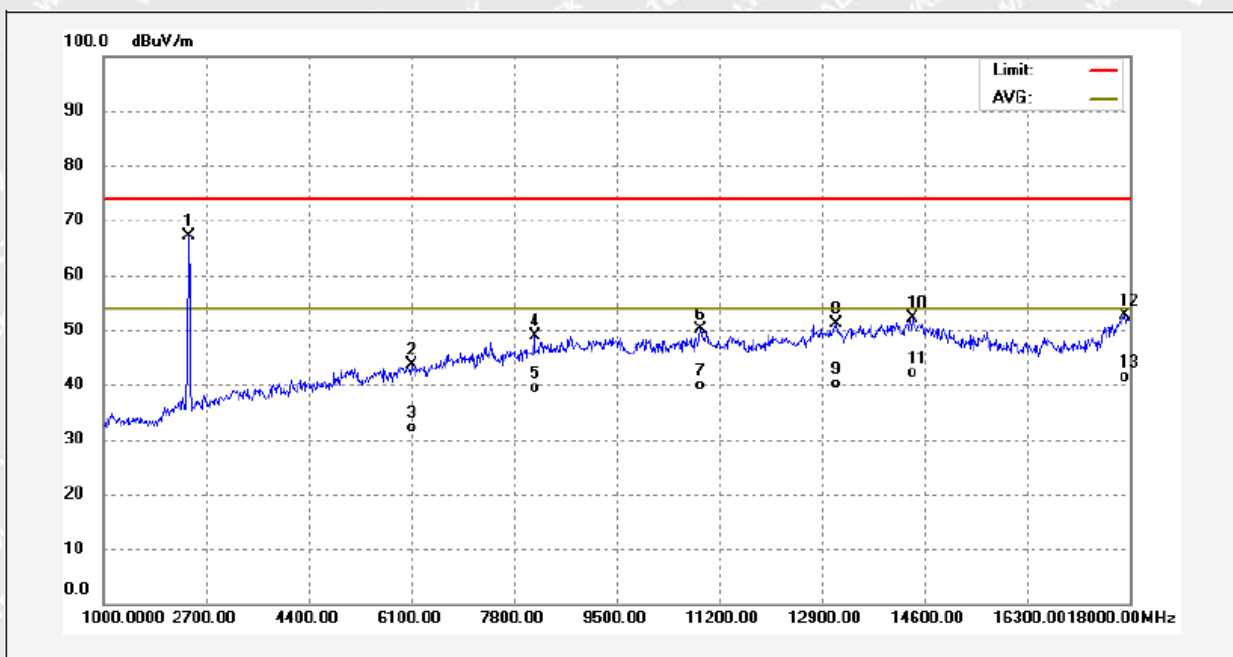


Test Frequency 1GHz to 18GHz

Test Mode 802.11b

Test Channel Low Channel

Polarization Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2412.000	89.88	-22.83	67.05	74.00	-6.95	peak	
2	6100.000	59.15	-15.56	43.59	74.00	-30.41	peak	
3	6100.000	47.74	-15.56	32.18	54.00	-21.82	AVG	
4	8140.000	60.00	-11.07	48.93	74.00	-25.07	peak	
5	8140.000	50.52	-11.07	39.45	54.00	-14.55	AVG	
6	10894.000	56.85	-6.68	50.17	74.00	-23.83	peak	
7	10894.000	46.67	-6.68	39.99	54.00	-14.01	AVG	
8	13138.000	56.23	-5.11	51.12	74.00	-22.88	peak	
9	13138.000	45.18	-5.11	40.07	54.00	-13.93	AVG	
10	14396.000	56.76	-4.64	52.12	74.00	-21.88	peak	
11	14396.000	46.85	-4.64	42.21	54.00	-11.79	AVG	
12	17915.000	55.33	-2.59	52.74	74.00	-21.26	peak	
13	17915.000	43.95	-2.59	41.36	54.00	-12.64	AVG	

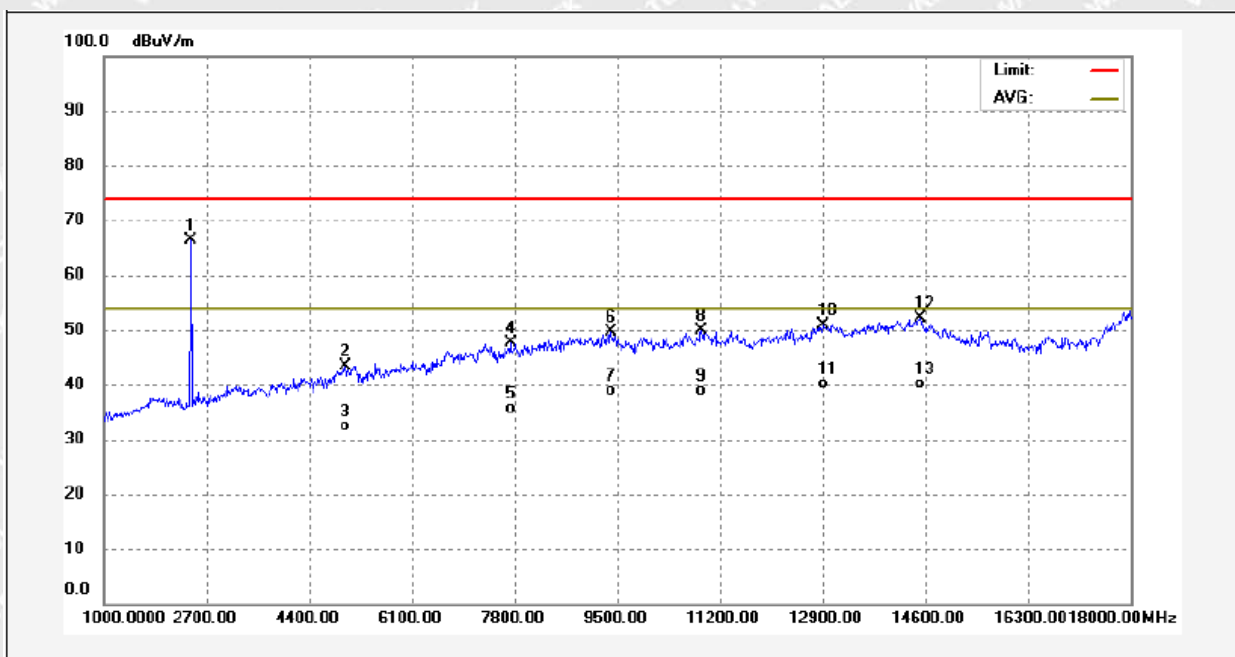


Test Frequency 1GHz to 18GHz

Test Mode 802.11b

Test Channel Middle Channel

Polarization Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2437.000	89.30	-22.97	66.33	74.00	-7.67	peak	
2	4995.000	60.23	-16.80	43.43	74.00	-30.57	peak	
3	4995.000	49.08	-16.80	32.28	54.00	-21.72	AVG	
4	7732.000	59.62	-12.11	47.51	74.00	-26.49	peak	
5	7732.000	47.70	-12.11	35.59	54.00	-18.41	AVG	
6	9398.000	58.35	-8.61	49.74	74.00	-24.26	peak	
7	9398.000	47.43	-8.61	38.82	54.00	-15.18	AVG	
8	10894.000	56.53	-6.68	49.85	74.00	-24.15	peak	
9	10894.000	45.47	-6.68	38.79	54.00	-15.21	AVG	
10	12900.000	56.09	-5.20	50.89	74.00	-23.11	peak	
11	12900.000	45.26	-5.20	40.06	54.00	-13.94	AVG	
12	14515.000	56.93	-4.77	52.16	74.00	-21.84	peak	
13	14515.000	44.96	-4.77	40.19	54.00	-13.81	AVG	

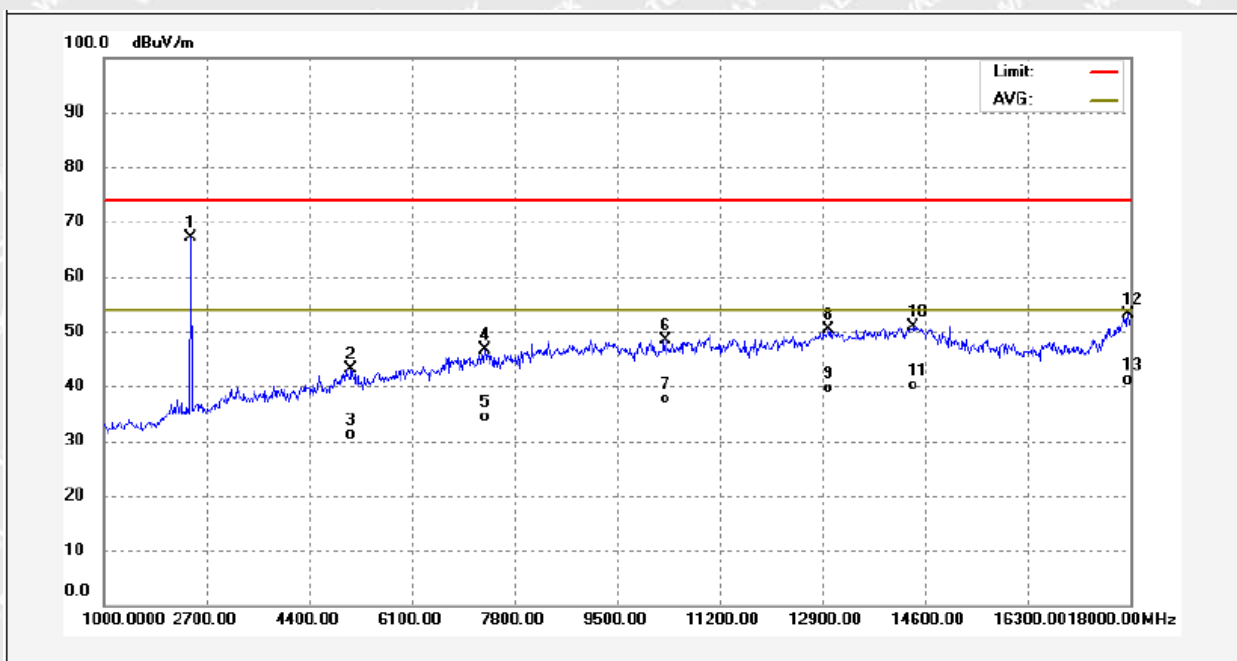


Test Frequency 1GHz to 18GHz

Test Mode 802.11b

Test Channel Middle Channel

Polarization Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2437.000	90.04	-22.97	67.07	74.00	-6.93	peak	
2	5097.000	60.07	-16.93	43.14	74.00	-30.86	peak	
3	5097.000	48.01	-16.93	31.08	54.00	-22.92	AVG	
4	7307.000	58.66	-12.07	46.59	74.00	-27.41	peak	
5	7307.000	46.51	-12.07	34.44	54.00	-19.56	AVG	
6	10299.000	56.69	-8.27	48.42	74.00	-25.58	peak	
7	10299.000	46.02	-8.27	37.75	54.00	-16.25	AVG	
8	13002.000	55.45	-5.16	50.29	74.00	-23.71	peak	
9	13002.000	44.83	-5.16	39.67	54.00	-14.33	AVG	
10	14413.000	55.51	-4.64	50.87	74.00	-23.13	peak	
11	14413.000	44.89	-4.64	40.25	54.00	-13.75	AVG	
12	17966.000	55.60	-2.46	53.14	74.00	-20.86	peak	
13	17966.000	43.57	-2.46	41.11	54.00	-12.89	AVG	

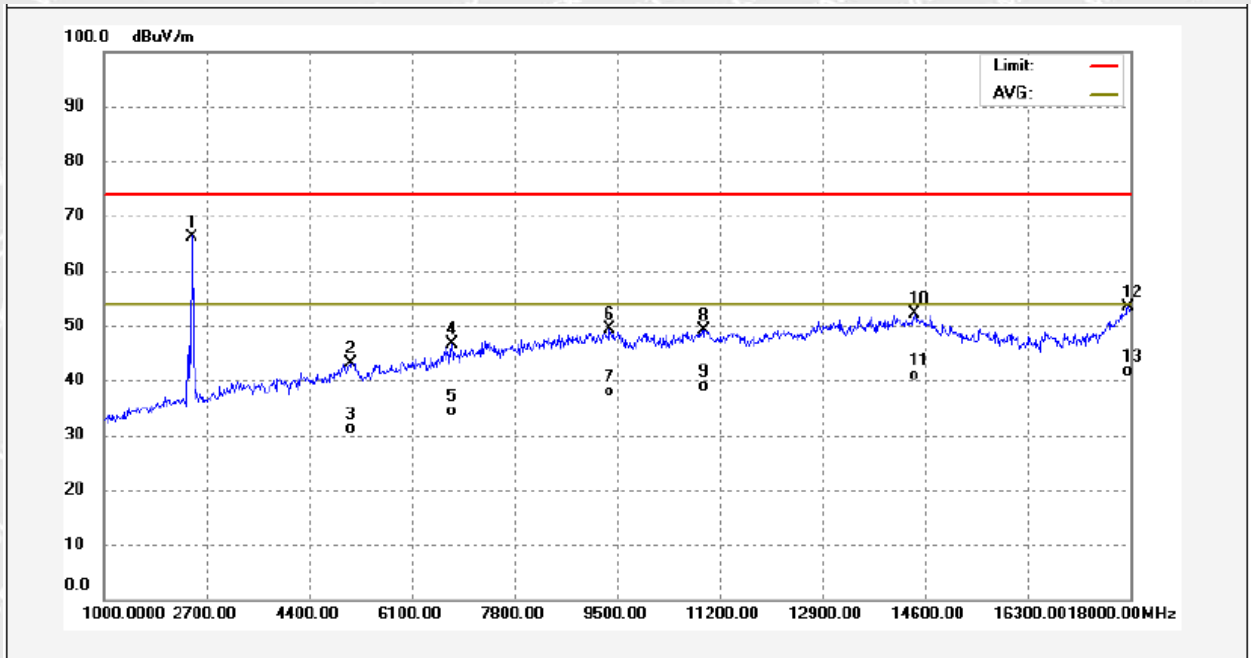


Test Frequency 1GHz to 18GHz

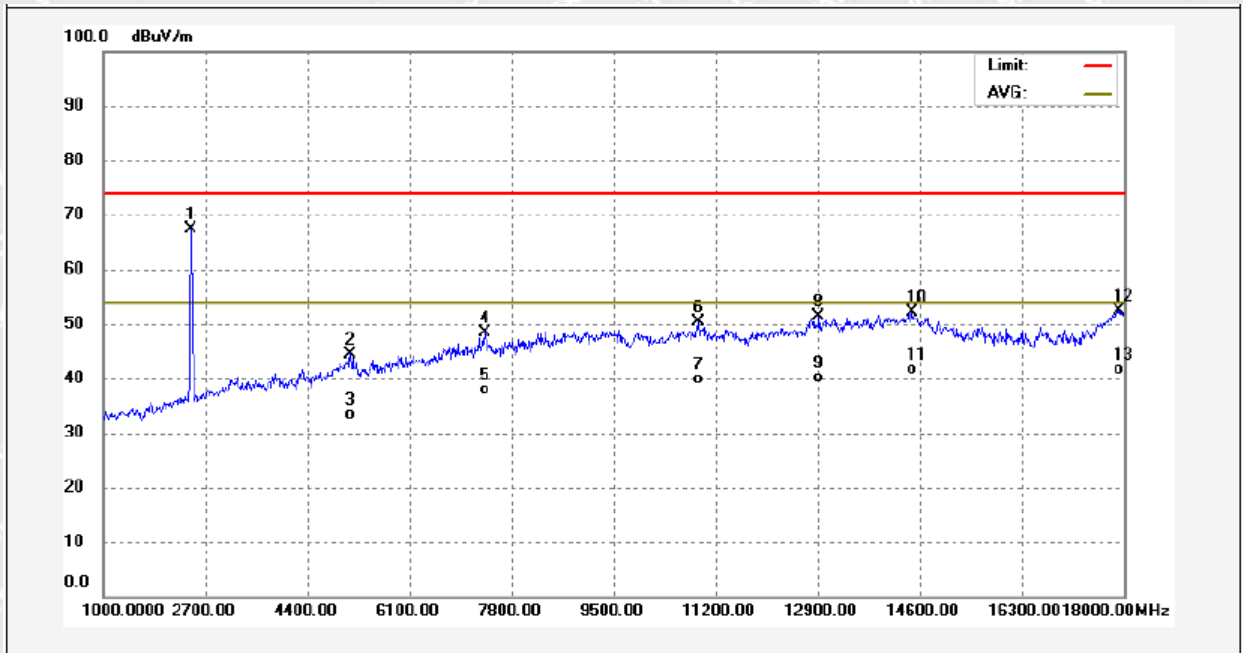
Test Mode 802.11b

Test Channel High Channel

Polarization Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	89.12	-22.87	66.25	74.00	-7.75	peak	
2	5097.000	60.16	-16.93	43.23	74.00	-30.77	peak	
3	5097.000	48.06	-16.93	31.13	54.00	-22.87	AVG	
4	6763.000	60.40	-13.84	46.56	74.00	-27.44	peak	
5	6763.000	48.18	-13.84	34.34	54.00	-19.66	AVG	
6	9381.000	58.17	-8.79	49.38	74.00	-24.62	peak	
7	9381.000	46.75	-8.79	37.96	54.00	-16.04	AVG	
8	10945.000	55.78	-6.55	49.23	74.00	-24.77	peak	
9	10945.000	45.39	-6.55	38.84	54.00	-15.16	AVG	
10	14430.000	56.68	-4.66	52.02	74.00	-21.98	peak	
11	14430.000	45.66	-4.66	41.00	54.00	-13.00	AVG	
12	17966.000	55.86	-2.46	53.40	74.00	-20.60	peak	
13	17966.000	44.14	-2.46	41.68	54.00	-12.32	AVG	

**Test Frequency** 1GHz to 18GHz**Test Mode** 802.11b**Test Channel** High Channel**Polarization** Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	90.23	-22.87	67.36	74.00	-6.64	peak	
2	5114.000	61.39	-16.89	44.50	74.00	-29.50	peak	
3	5114.000	50.31	-16.89	33.42	54.00	-20.58	AVG	
4	7358.000	60.78	-12.48	48.30	74.00	-25.70	peak	
5	7358.000	50.25	-12.48	37.77	54.00	-16.23	AVG	
6	10911.000	56.91	-6.60	50.31	74.00	-23.69	peak	
7	10911.000	46.51	-6.60	39.91	54.00	-14.09	AVG	
8	12917.000	56.56	-5.20	51.36	74.00	-22.64	peak	
9	12917.000	45.35	-5.20	40.15	54.00	-13.85	AVG	
10	14481.000	56.76	-4.72	52.04	74.00	-21.96	peak	
11	14481.000	46.27	-4.72	41.55	54.00	-12.45	AVG	
12	17915.000	55.07	-2.59	52.48	74.00	-21.52	peak	
13	17915.000	44.24	-2.59	41.65	54.00	-12.35	AVG	

Note: Testing is carried out with frequency range 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



6.3 Power Spectral Density

6.3.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020+C1 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW $\geq 3 \times \text{RBW}$.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

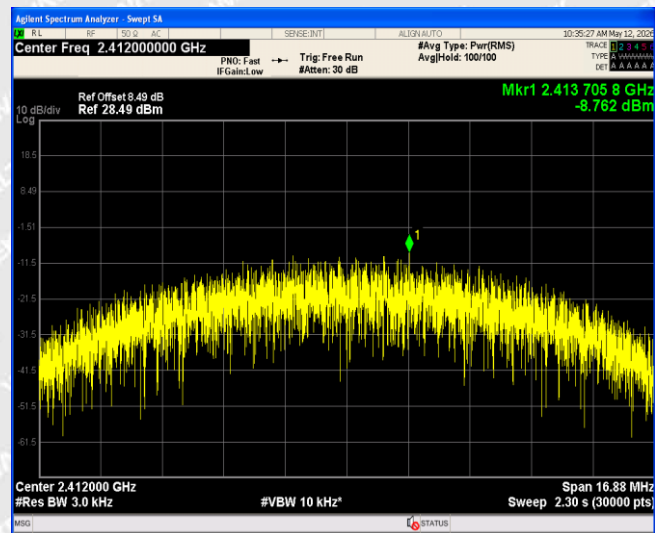
6.3.3 Test Result

Test Mode	Test Channel(MHz)	Test Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-8.76	8
	2437	-8.61	8
	2462	-8.38	8
802.11g	2412	-17.61	8
	2437	-17.33	8
	2462	-16.84	8
802.11n (HT20)	2412	-18.71	8
	2437	-18.74	8
	2462	-17.64	8

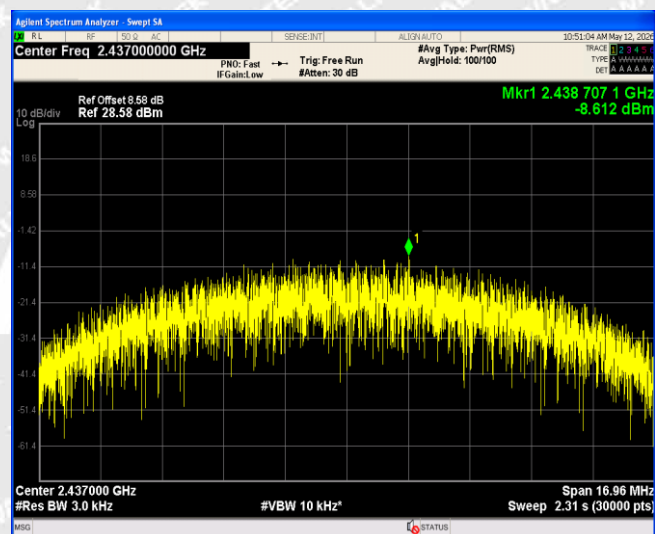


Test plots:

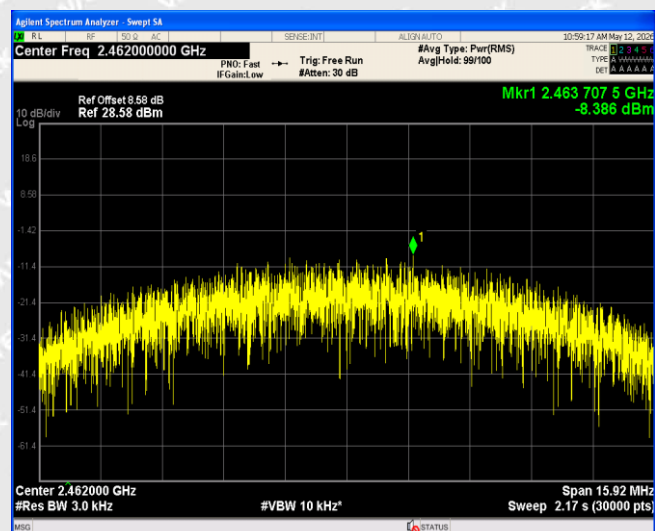
802.11b_Low Channel



802.11b_Middle Channel

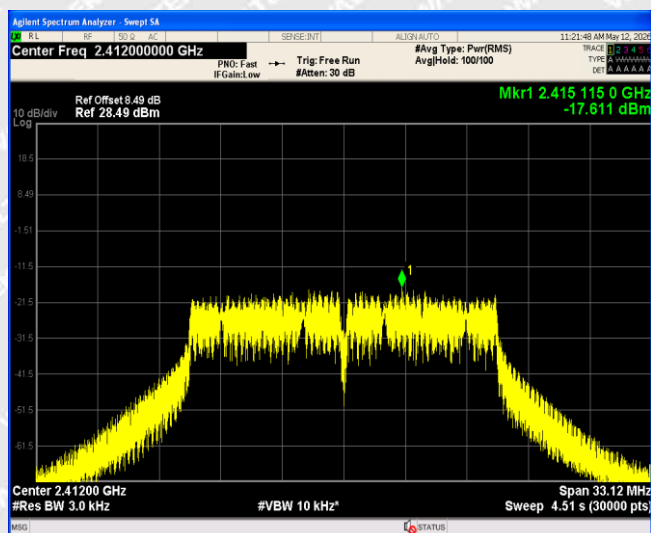


802.11b_High Channel

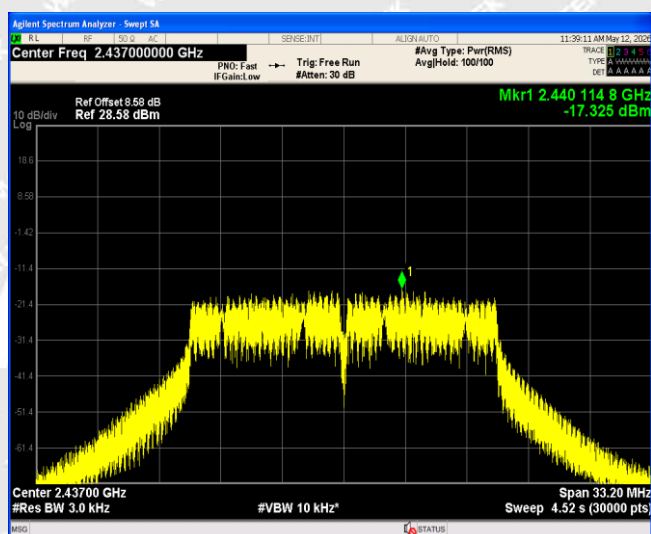




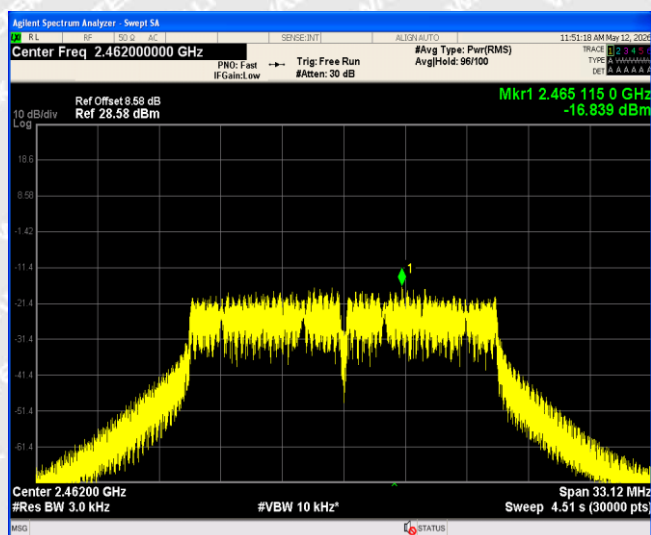
802.11g_Low Channel

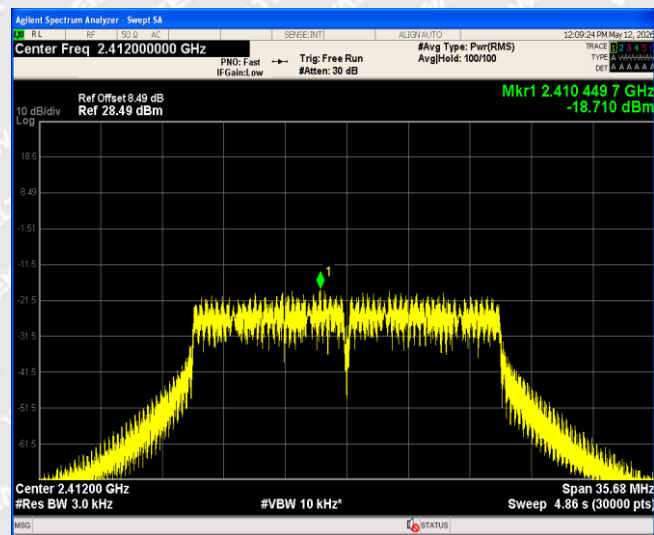
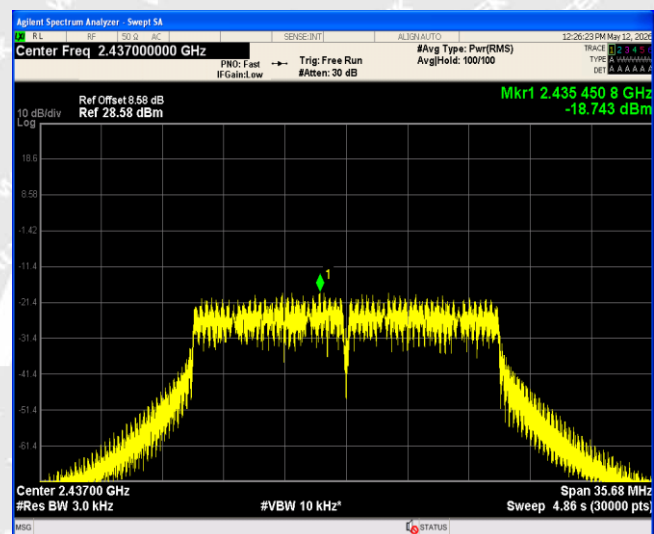
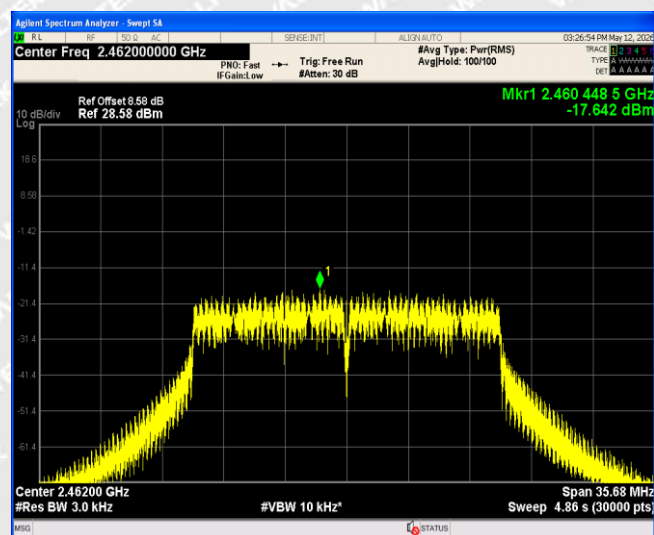


802.11g_Middle Channel



802.11g_High Channel



**802.11n(HT20)_Low Channel****802.11n(HT20)_Middle Channel****802.11n(HT20)_High Channel**



6.4 DTS Bandwidth

6.4.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.4.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2020+C1Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

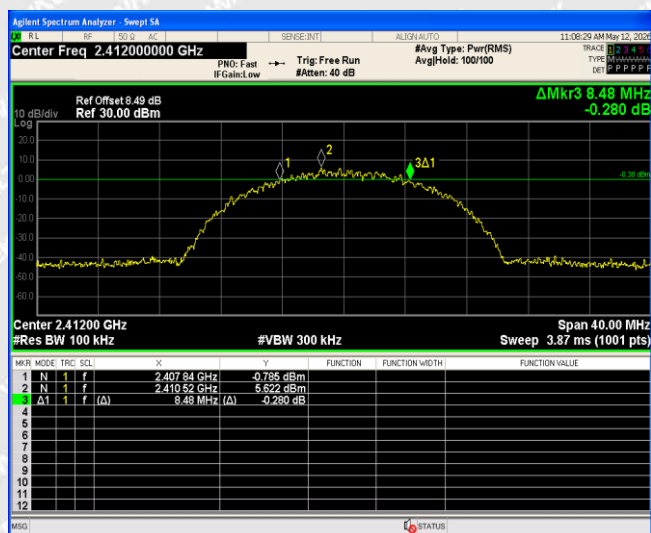
6.4.3 Test Result

Test Mode	Test Channel (MHz)	Test Result (MHz)	Limit (kHz)
802.11b	2412	8.480	≥ 500
	2437	8.480	≥ 500
	2462	7.960	≥ 500
802.11g	2412	16.560	≥ 500
	2437	16.600	≥ 500
	2462	16.560	≥ 500
802.11n (HT20)	2412	17.840	≥ 500
	2437	17.840	≥ 500
	2462	17.840	≥ 500

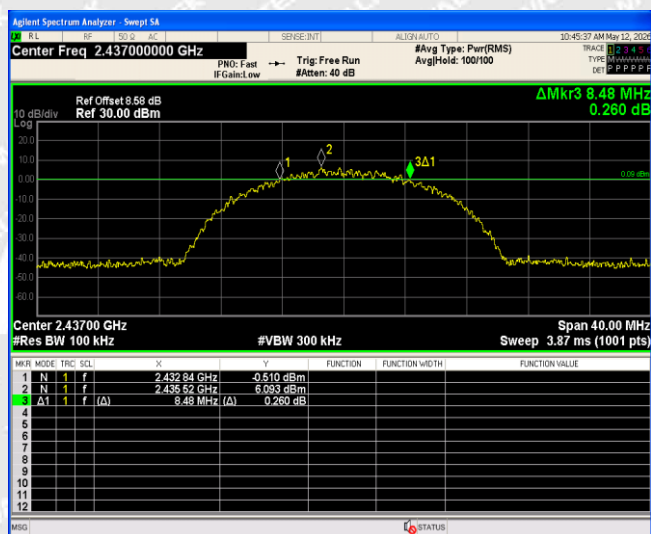


Test plots:

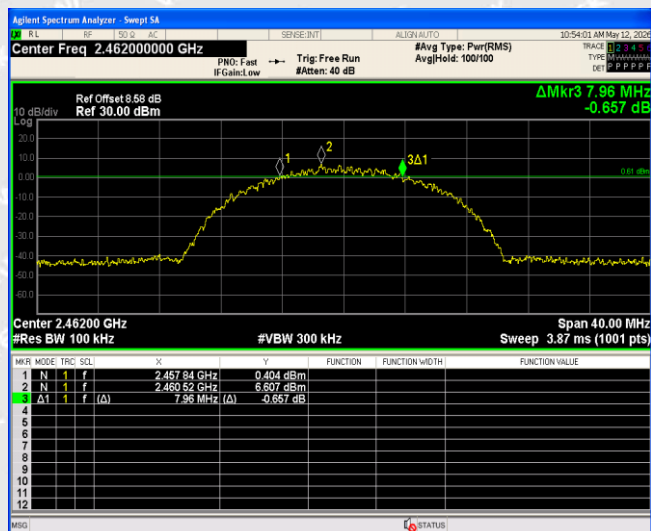
802.11b_Low Channel



802.11b_Middle Channel

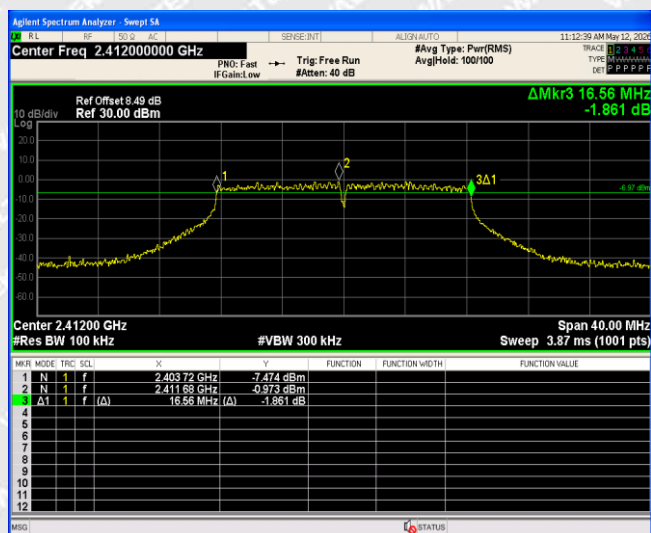


802.11b_High Channel

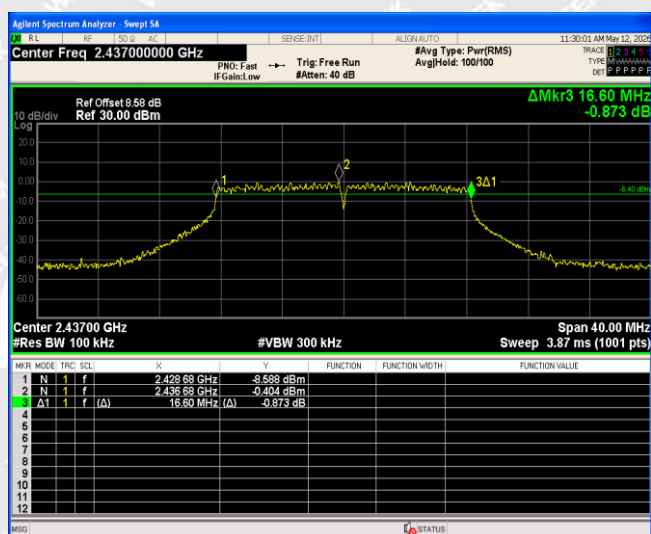




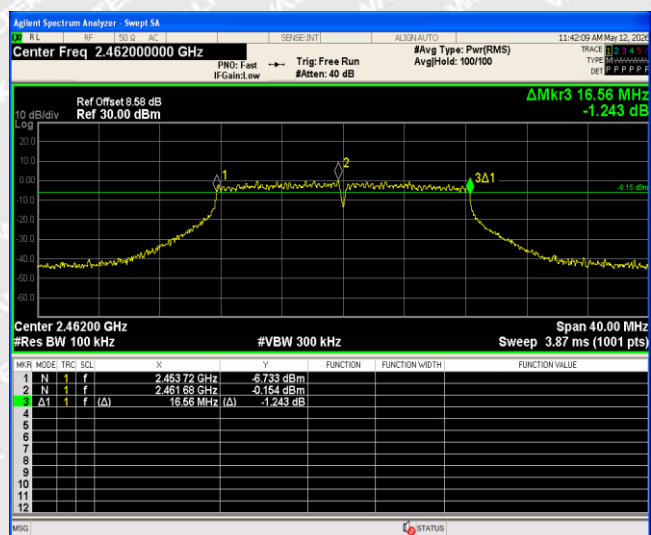
802.11g_Low Channel



802.11g_Middle Channel

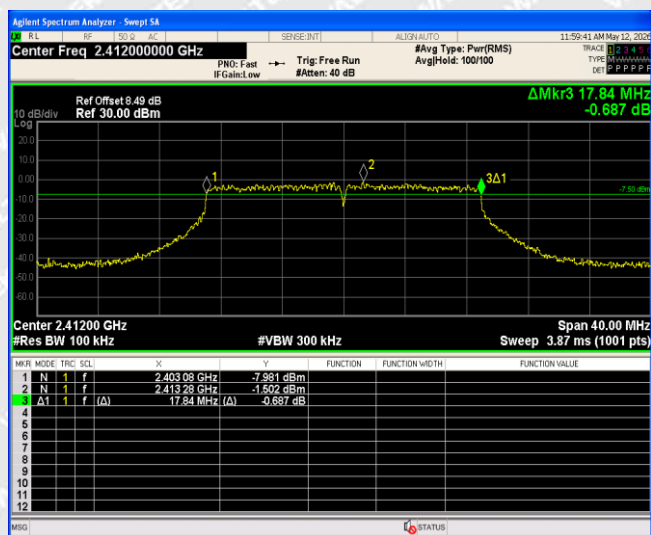


802.11g_High Channel

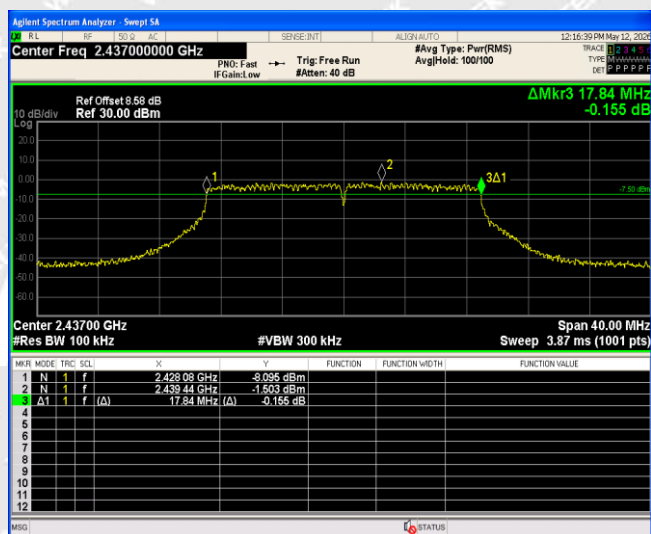




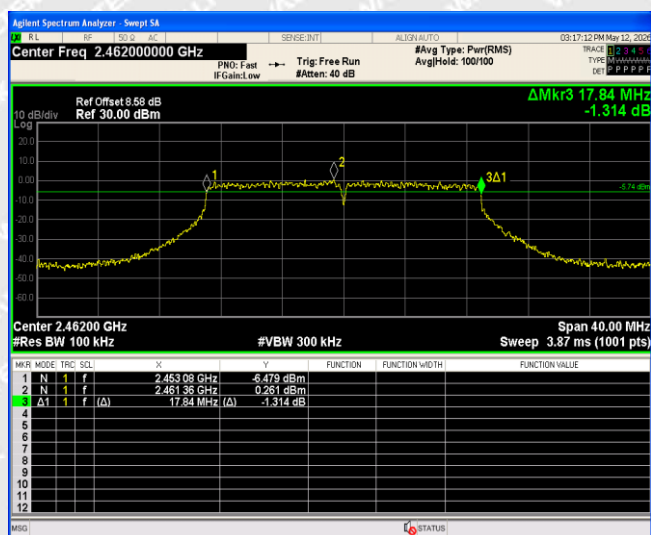
802.11n(HT20) Low Channel



802.11n(HT20) Middle Channel



802.11n(HT20) High Channel





6.5 RF Output Power

6.5.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

6.5.2 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2020+C1 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing $\geq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.



6.5.3 Test Result

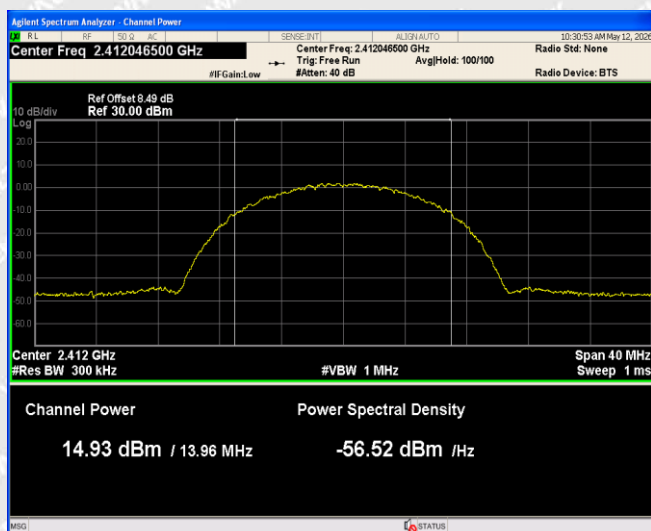
Modulation	Test Channel (MHz)	Reading (dBm)	Output Power (mW)	Limit (mW)
802.11b	2412	14.93	31.12	1000
	2437	14.92	31.05	1000
	2462	15.31	33.96	1000
802.11g	2412	11.46	14.00	1000
	2437	12.02	15.92	1000
	2462	12.14	16.37	1000
802.11n (HT20)	2412	11.46	14.00	1000
	2437	11.72	14.86	1000
	2462	12.51	17.82	1000

WALTEK

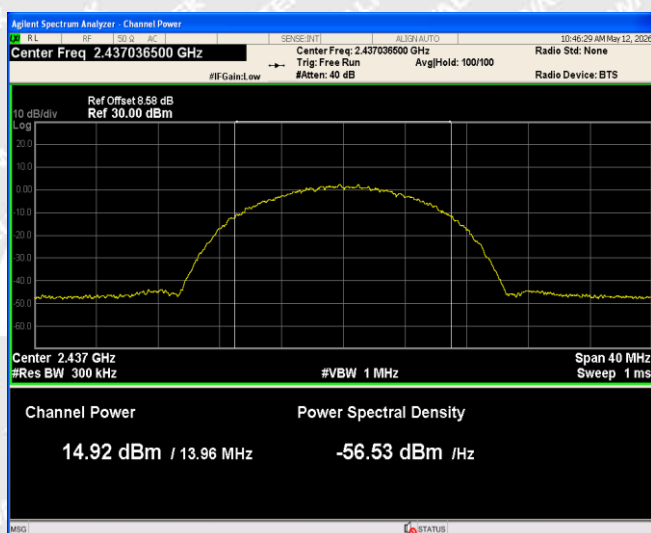


Test plots:

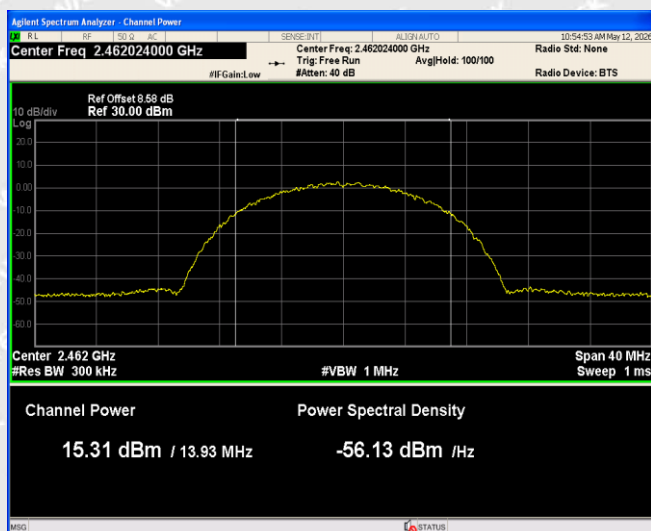
802.11b_Low Channel



802.11b_Middle Channel

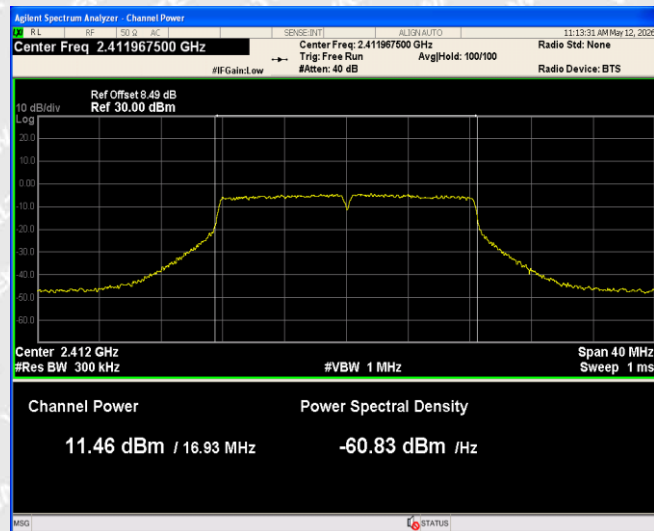


802.11b_High Channel

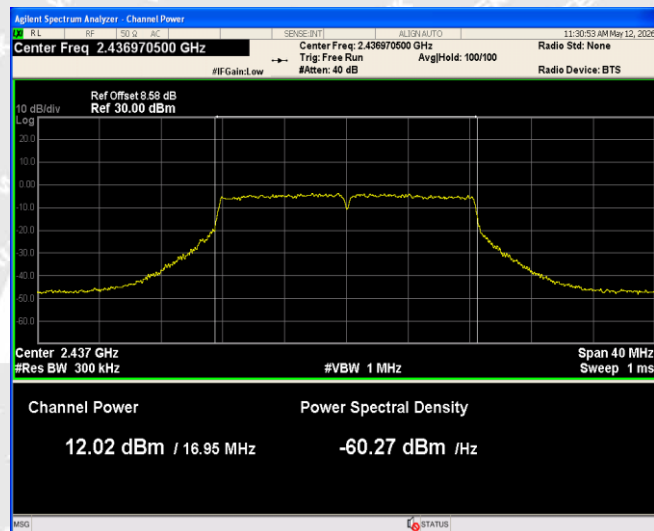




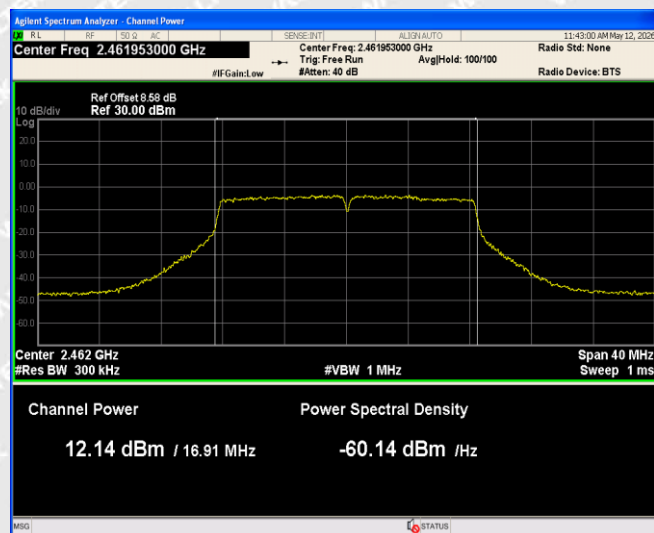
802.11g_Low Channel

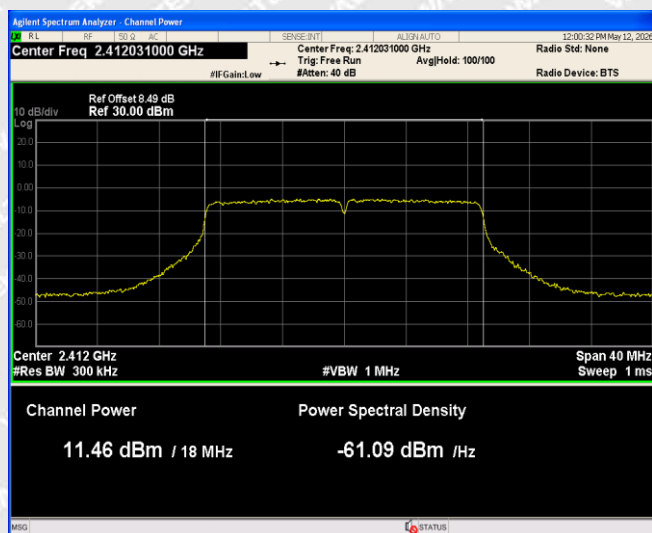
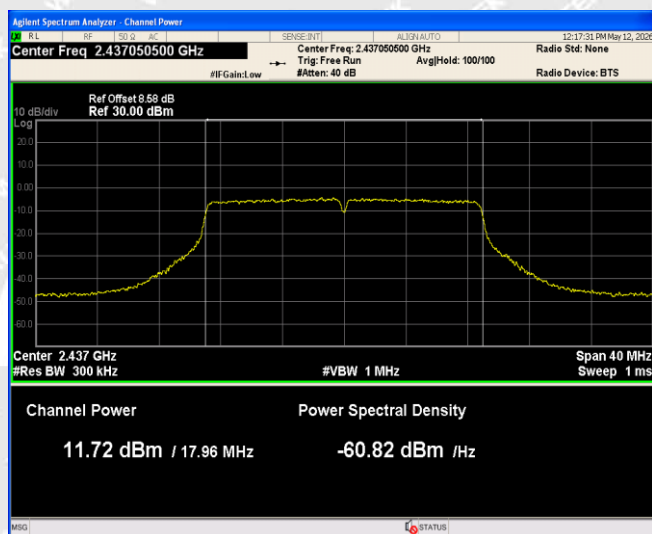
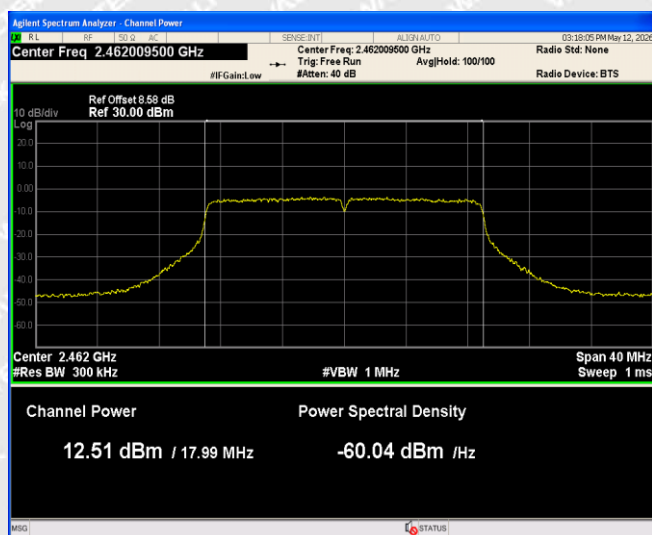


802.11g_Middle Channel



802.11g_High Channel



**802.11n(HT20)_Low Channel****802.11n(HT20)_Middle Channel****802.11n(HT20)_High Channel**



6.6 Out of Band Emissions

6.6.1 Standard Applicable

According to §15.247 (d) 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 limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

6.6.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020+C1 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2020+C1 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge,

as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz

for low band edge, 2460MHz to 2500MHz for the high band edge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emissions must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205.



Note that the method of measurement KDB publication number: 913591 may be used for the radiated band edge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9/
- b) VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1.



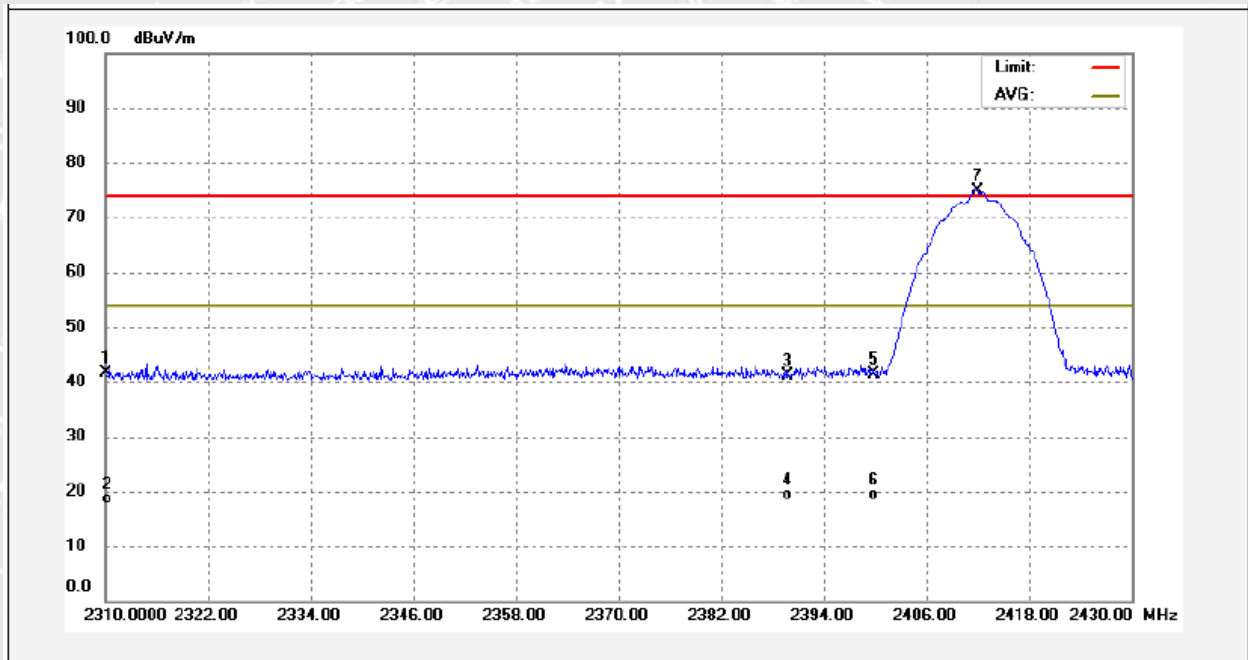
6.6.3 Test Result

Radiated Test

802.11b

Test Channel Low Channel

Polarization Horizontal (worst case)

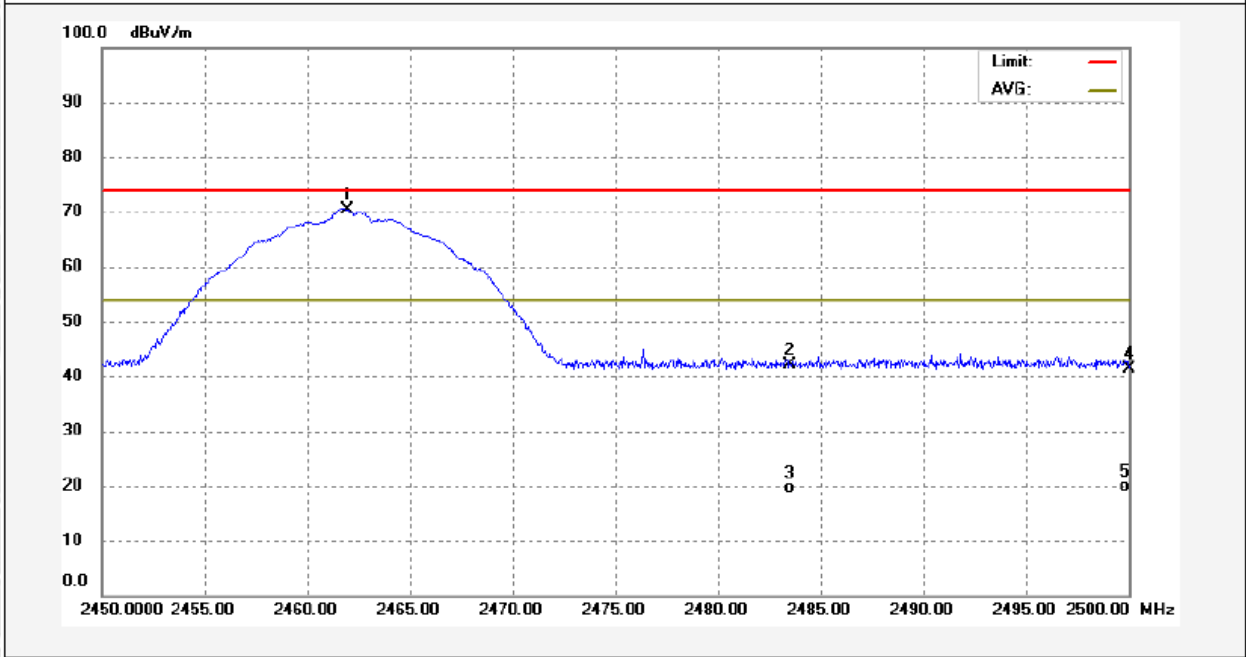


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2310.000	9.64	31.90	41.54	74.00	-32.46	peak	
2	2310.000	-13.27	31.90	18.63	54.00	-35.37	AVG	
3	2390.000	9.01	32.24	41.25	74.00	-32.75	peak	
4	2390.000	-12.94	32.24	19.30	54.00	-34.70	AVG	
5	2400.000	9.16	32.28	41.44	74.00	-32.56	peak	
6	2400.000	-12.78	32.28	19.50	54.00	-34.50	AVG	
7	2412.000	42.61	32.33	74.94	74.00	0.94	peak	



Test Channel High Channel

Polarization Horizontal (worst case)



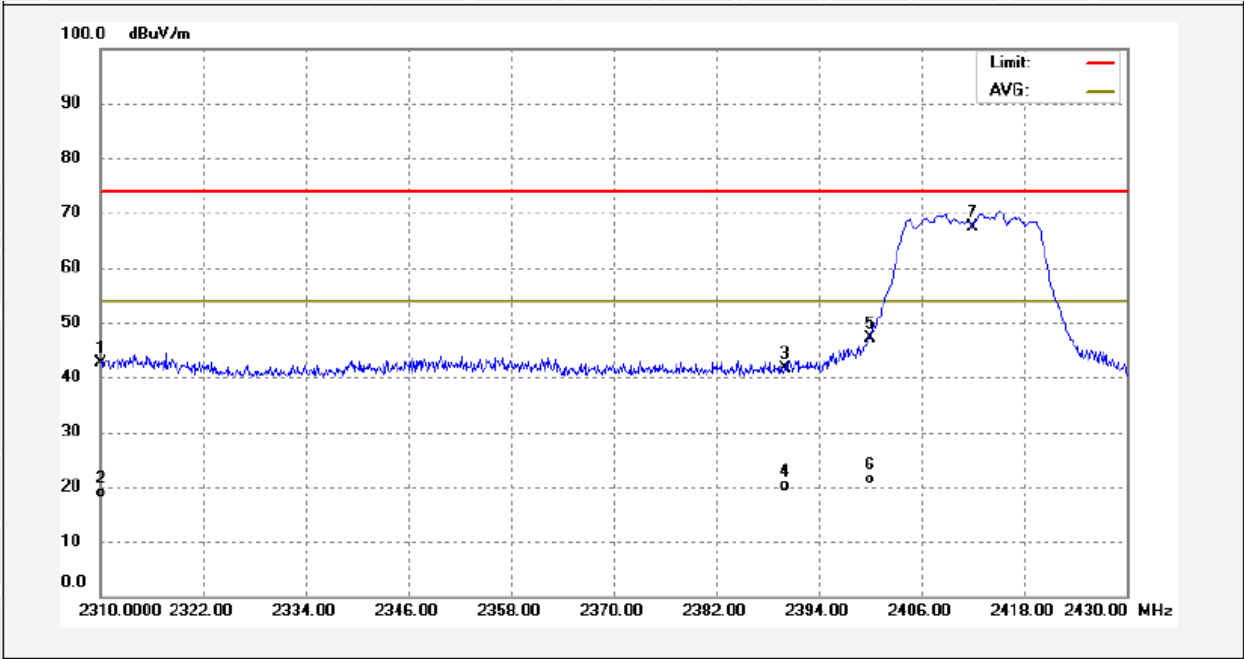
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	37.73	32.54	70.27	74.00	-3.73	peak	
2	2483.500	9.41	32.63	42.04	74.00	-31.96	peak	
3	2483.500	-12.88	32.63	19.75	54.00	-34.25	AVG	
4	2500.000	8.80	32.70	41.50	74.00	-32.50	peak	
5	2500.000	-12.80	32.70	19.90	54.00	-34.10	AVG	



802.11g

Test Channel Low Channel

Polarization Horizontal (worst case)



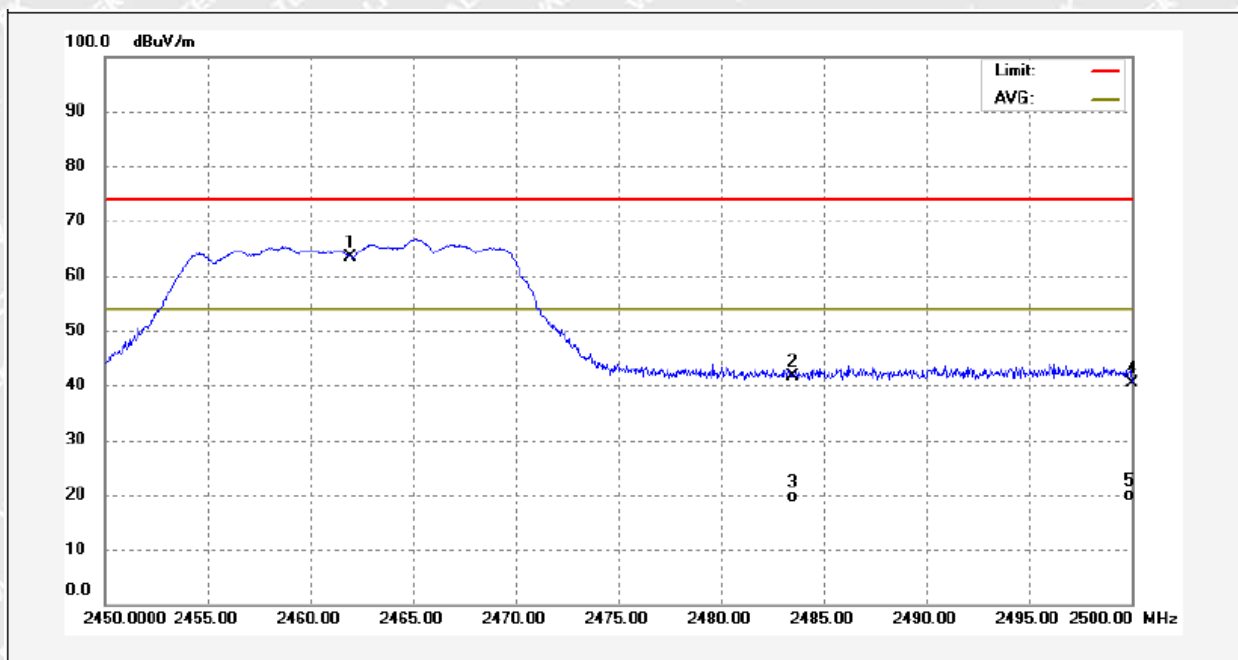
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2310.000	10.74	31.90	42.64	74.00	-31.36	peak	
2	2310.000	-12.98	31.90	18.92	54.00	-35.08	AVG	
3	2390.000	9.37	32.24	41.61	74.00	-32.39	peak	
4	2390.000	-12.20	32.24	20.04	54.00	-33.96	AVG	
5	2400.000	14.88	32.28	47.16	74.00	-26.84	peak	
6	2400.000	-10.98	32.28	21.30	54.00	-32.70	AVG	
7	2412.000	35.10	32.33	67.43	74.00	-6.57	peak	



Test Channel High Channel

Polarization

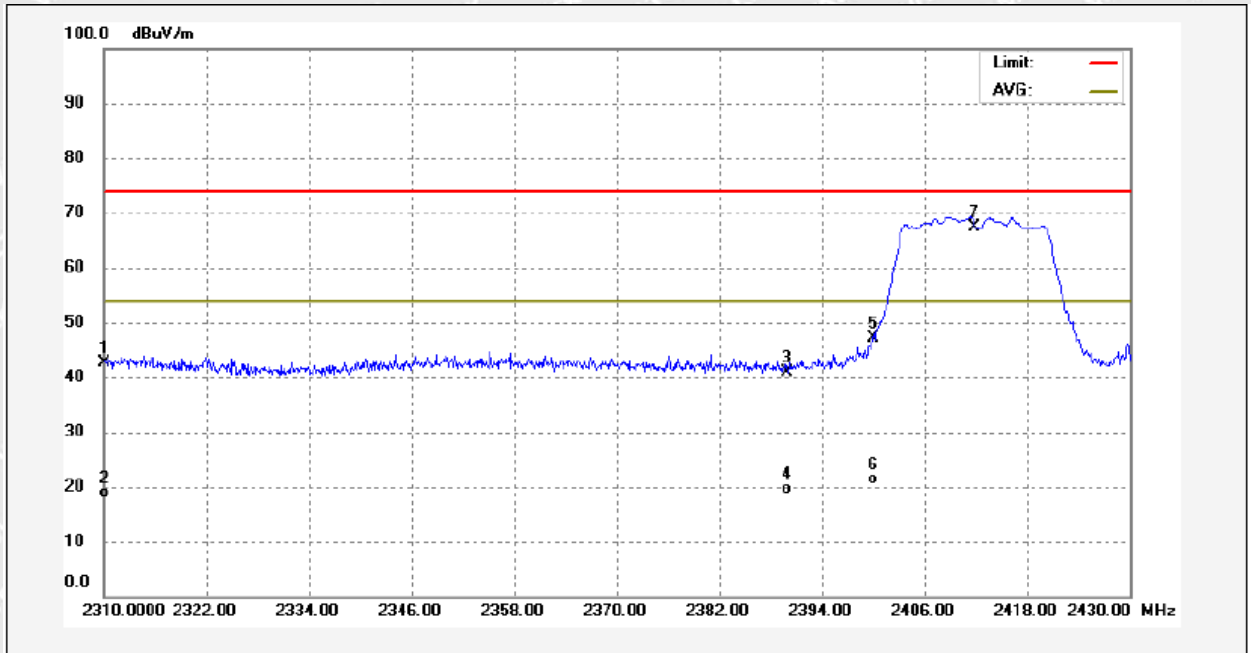
Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	30.73	32.54	63.27	74.00	-10.73	peak	
2	2483.500	9.03	32.63	41.66	74.00	-32.34	peak	
3	2483.500	-12.89	32.63	19.74	54.00	-34.26	AVG	
4	2500.000	7.78	32.70	40.48	74.00	-33.52	peak	
5	2500.000	-12.79	32.70	19.91	54.00	-34.09	AVG	

**802.11n(HT20)****Test Channel** Low Channel**Polarization**

Horizontal (worst case)

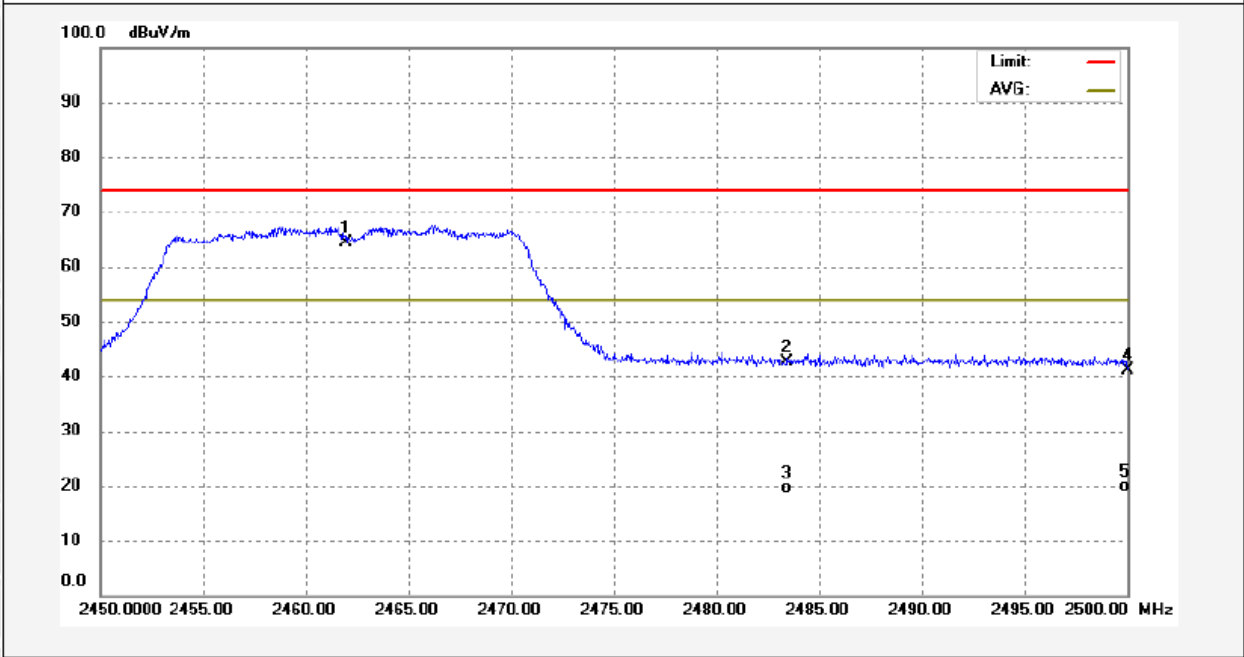


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2310.000	10.83	31.90	42.73	74.00	-31.27	peak	
2	2310.000	-12.97	31.90	18.93	54.00	-35.07	AVG	
3	2390.000	8.60	32.24	40.84	74.00	-33.16	peak	
4	2390.000	-12.73	32.24	19.51	54.00	-34.49	AVG	
5	2400.000	14.92	32.28	47.20	74.00	-26.80	peak	
6	2400.000	-10.87	32.28	21.41	54.00	-32.59	AVG	
7	2412.000	35.14	32.33	67.47	74.00	-6.53	peak	



Test Channel High Channel

Polarization Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	31.87	32.54	64.41	74.00	-9.59	peak	
2	2483.500	9.98	32.63	42.61	74.00	-31.39	peak	
3	2483.500	-12.93	32.63	19.70	54.00	-34.30	AVG	
4	2500.000	8.47	32.70	41.17	74.00	-32.83	peak	
5	2500.000	-12.76	32.70	19.94	54.00	-34.06	AVG	

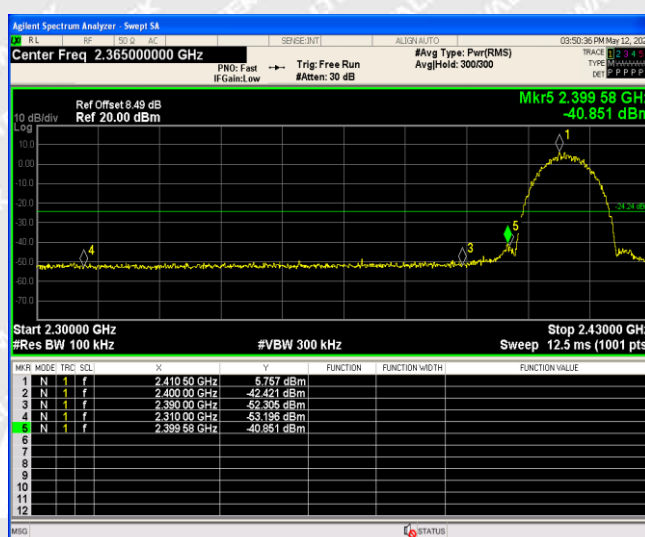


Conducted Test

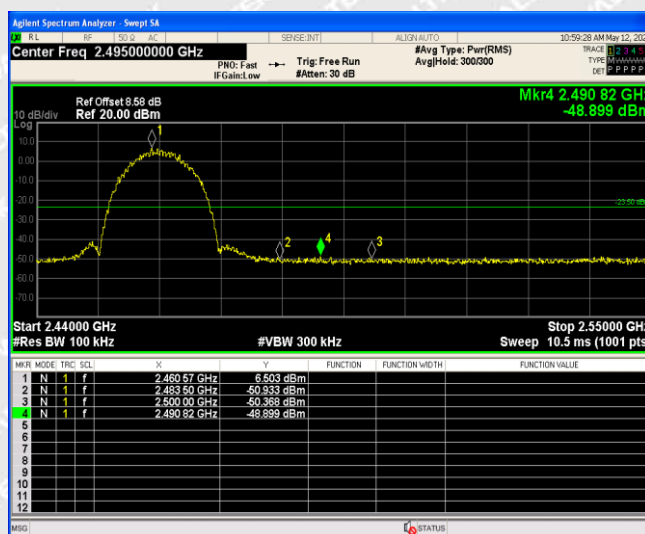
Test Mode	Channel (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
802.11b	2412	5.76	-40.85	≤ -24.24	Pass
	2462	6.50	-48.90	≤ -23.5	Pass
802.11g	2412	-0.91	-33.60	≤ -30.91	Pass
	2462	-0.17	-48.93	≤ -30.17	Pass
802.11n (HT20)	2412	-1.50	-34.74	≤ -31.5	Pass
	2462	-0.56	-47.97	≤ -30.56	Pass

Test Plots:

802.11b_Low Channel

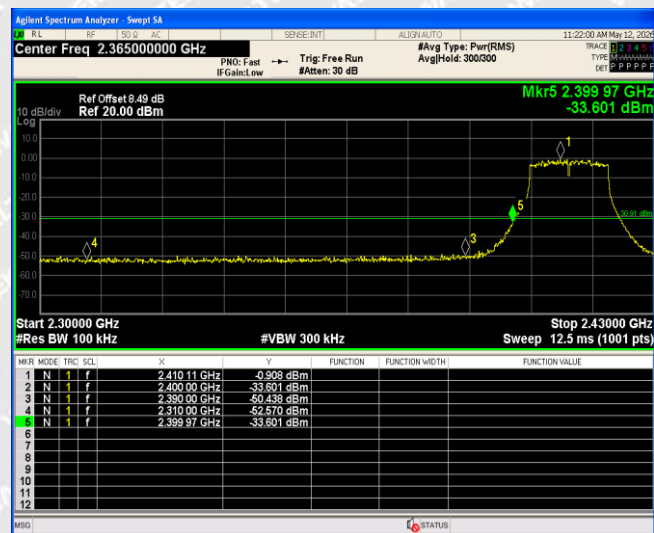


802.11b_High Channel

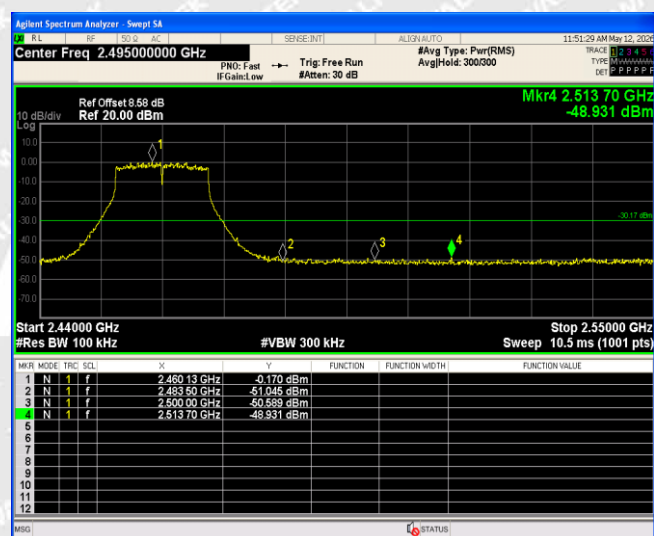




802.11g_Low Channel

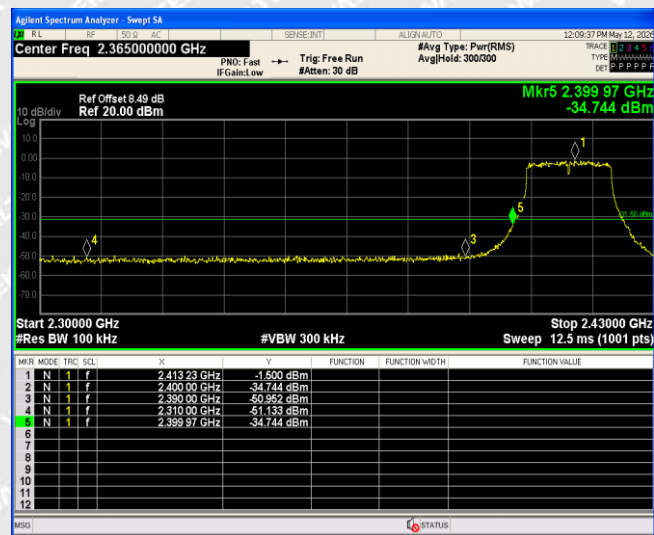


802.11g_High Channel

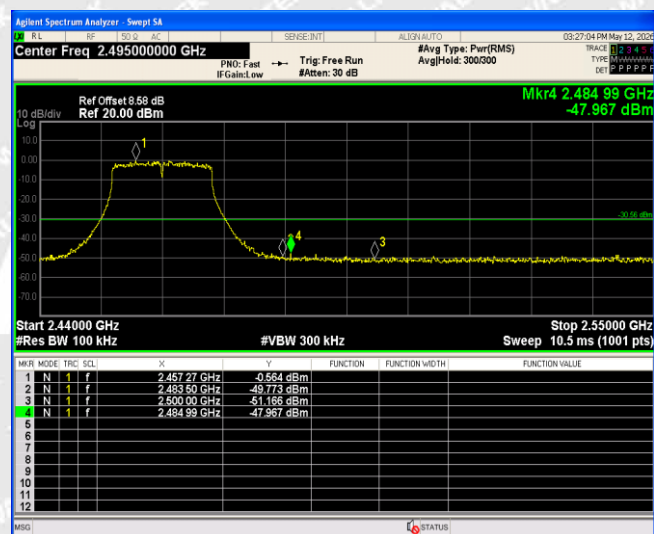




802.11n (HT20)_Low Channel



802.11n (HT20)_High Channel





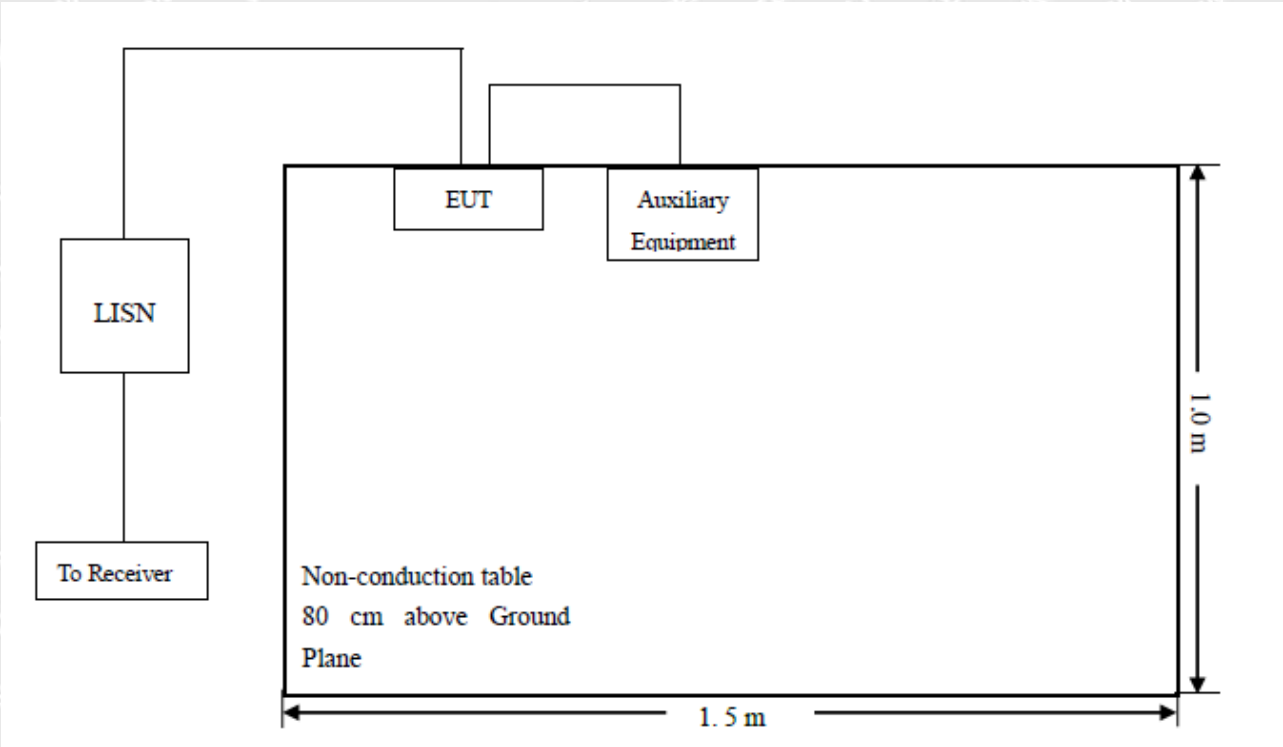
6.7 Conducted Emissions

6.7.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020+C1 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

6.7.2 Basic Test Setup Block Diagram



6.7.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150 kHz
Stop Frequency.....	30 MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth.....	9 kHz
Quasi-Peak Adapter Mode.....	Normal



6.7.4 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.7.5 Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF(Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Measurement} = \text{Reading Level} + \text{Correct Factor}$$

$$\text{Correct Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

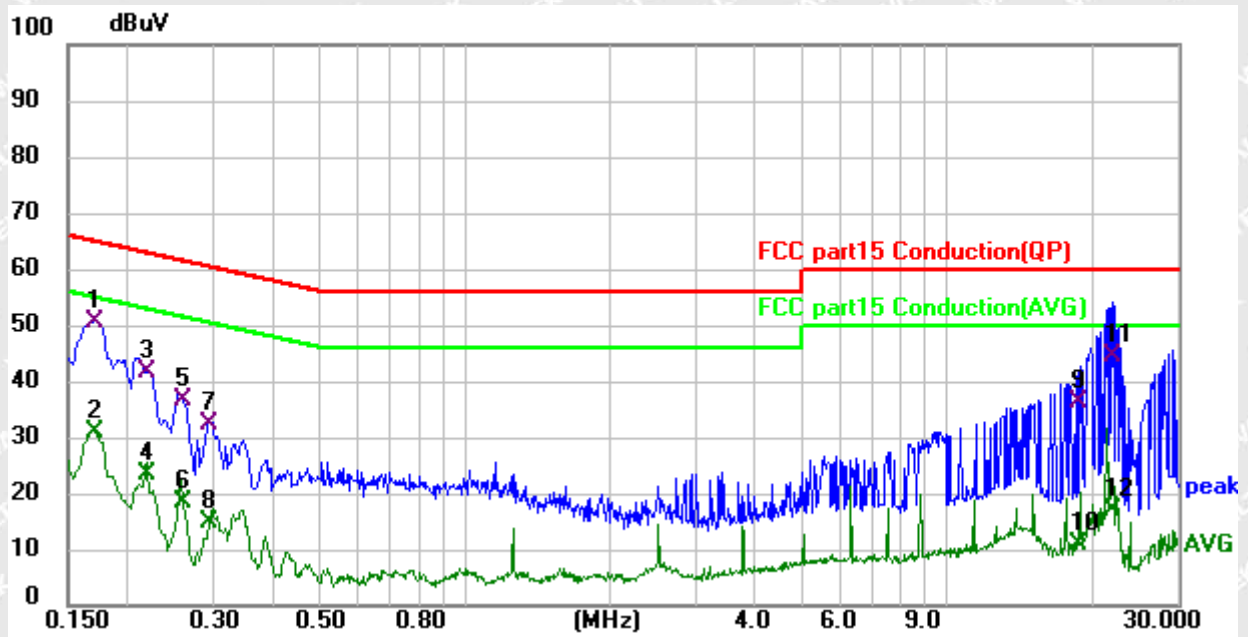
$$\text{Margin} = \text{Measurement} - \text{Limit}$$

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6.7.6 Test Result

Test Mode Communication mode (AC 120V/60Hz) Polarity Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1712	40.84	9.65	50.49	64.90	-14.41	QP	
2		0.1712	21.23	9.65	30.88	54.90	-24.02	AVG	
3		0.2180	31.98	9.68	41.66	62.89	-21.23	QP	
4		0.2180	13.71	9.68	23.39	52.89	-29.50	AVG	
5		0.2603	27.07	9.69	36.76	61.42	-24.66	QP	
6		0.2603	8.63	9.69	18.32	51.42	-33.10	AVG	
7		0.2940	22.58	9.68	32.26	60.41	-28.15	QP	
8		0.2940	5.07	9.68	14.75	50.41	-35.66	AVG	
9		18.8140	26.07	10.17	36.24	60.00	-23.76	QP	
10		18.8140	0.67	10.17	10.84	50.00	-39.16	AVG	
11		22.0340	34.16	10.18	44.34	60.00	-15.66	QP	
12		22.0340	6.88	10.18	17.06	50.00	-32.94	AVG	

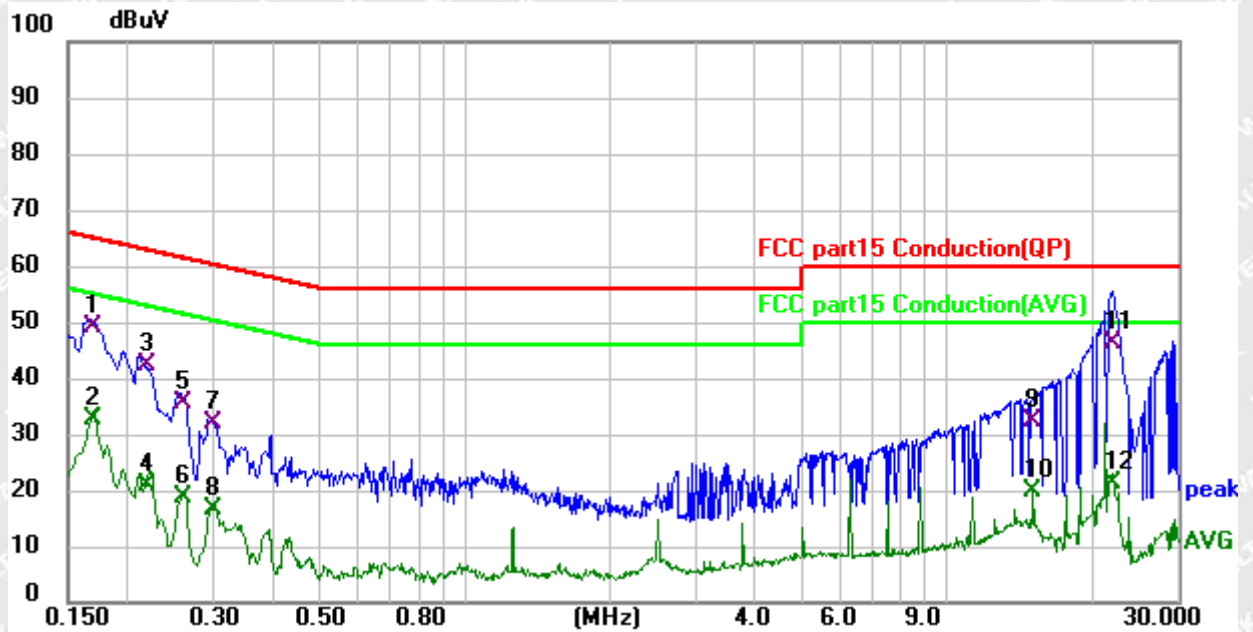


Test Mode

Communication mode (AC 120V/60Hz)

Polarity

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1685	39.59	9.62	49.21	65.03	-15.82	QP	
2		0.1685	23.22	9.62	32.84	55.03	-22.19	AVG	
3		0.2197	32.54	9.66	42.20	62.83	-20.63	QP	
4		0.2197	11.09	9.66	20.75	52.83	-32.08	AVG	
5		0.2603	25.79	9.67	35.46	61.42	-25.96	QP	
6		0.2603	8.94	9.67	18.61	51.42	-32.81	AVG	
7		0.2980	22.46	9.66	32.12	60.30	-28.18	QP	
8		0.2980	6.93	9.66	16.59	50.30	-33.71	AVG	
9		15.0620	22.21	10.13	32.34	60.00	-27.66	QP	
10		15.0620	9.71	10.13	19.84	50.00	-30.16	AVG	
11	*	22.0900	36.12	10.25	46.37	60.00	-13.63	QP	
12		22.0900	11.12	10.25	21.37	50.00	-28.63	AVG	



7 Photographs Test Setup

7.1 Photographs - Radiated Emission Test Setup

30MHz-1GHz



Above 1GHz





7.2 Photographs – Conducted Emission Test Setup



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8 Photographs – EUT Constructional Details

Please refer to “ANNEX” (Reference No. WTF26F04101361W).

=====End of Report=====

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