



TEST REPORT

APPLICANT : WIKO SAS
PRODUCT NAME : Smart phone
MODEL NAME : W-P861-01
BRAND NAME : WIKO
FCC ID : 2AM86W-P861-01
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2021-11-19
TEST DATE : 2021-12-10 to 2021-12-28
ISSUE DATE : 2022-01-18

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Change History		
Version	Date	Reason for change
1.0	2022-01-18	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	WIKO SAS
Applicant Address:	1, rue Capitaine Dessemond – 13007 Marseille – France.
Manufacturer:	WIKO SAS
Manufacturer Address:	1, rue Capitaine Dessemond – 13007 Marseille – France.

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart phone	
Sample No.:	22#	
Hardware Version:	V1.0	
Software Version:	W-P861-V01	
Modulation Technology:	DSSS, OFDM	
Modulation Mode:	802.11b, 802.11g, 802.11n (HT20)	
Operating Frequency Range:	802.11b/g/ n (HT20): 2412MHz–2462MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	-1.20dBi	
Accessory Information:	Battery 1	
	Brand Name:	N/A
	Model No.:	HB446589EFW
	Serial No.:	N/A
	Capacity:	3900mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	SCUD(FUJIAN) ELECTRONICS CO.,LTD.

Accessory Information:	Battery 2	
	Brand Name:	N/A
	Model No.:	HB446589EFW
	Serial No.:	N/A
	Capacity:	3900mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Sunwoda Electronic Co., Ltd.
	AC Adapter 1	
	Brand Name:	WIKO
	Model No.:	SU2A40
	Serial No.:	N/A
	Rated Output:	5.0V \Rightarrow 2.0A; 9.0V \Rightarrow 2.0A; 10.0V \Rightarrow 4.0A
	Rated Input:	100-240V \sim 50/60Hz, 1.2A
	Manufacturer:	Luxshare Precision Industry Co., Ltd.
	AC Adapter 2	
	Brand Name:	WIKO
	Model No.:	SU1A40
	Serial No.:	N/A
	Rated Output:	5.0V \Rightarrow 2.0A; 9.0V \Rightarrow 2.0A; 10.0V \Rightarrow 4.0A
	Rated Input:	100-240V \sim 50/60Hz, 1.2A
	Manufacturer:	Luxshare Precision Industry Co., Ltd.
	USB Cable	
	Model No.:	L99UC138-CS-H
Manufacturer:	Luxshare Precision Industry Co., Ltd.	

Note 1: We use the dedicated software to control the EUT continuous transmission.

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Modulation Type and Data Rate of EUT

Modulation Technology	Modulation Type	Data Rate (Mbps) ^{Note1}
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/ 11
OFDM (802.11g)	BPSK	6 / 9
	QPSK	12 / 18
	16QAM	24 / 36
	64QAM	48 / 54
OFDM (802.11n (HT20))	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

1.4. The Channel Number and Frequency

Test Mode	Channel	Frequency (MHz)	Channel	Frequency (MHz)
802.11b/g/n (HT20)	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432		
	6	2437		
	7	2442		

Note 1: The black bold channels were selected for test.



1.5. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle of Test Signal	Dec 10, 2021	Tu Ya'nan	PASS	No deviation
3	15.247(b)	Maximum Peak and Average Conducted Output Power	Dec 28, 2021	Tu Ya'nan	PASS	No deviation
4	15.247(a)	Bandwidth	Dec 28, 2021	Tu Ya'nan	PASS	No deviation
5	15.247(d)	Conducted Spurious Emission and Band Edge	Dec 28, 2021	Tu Ya'nan	PASS	No deviation
6	15.247(e)	Power Spectral Density	Dec 28, 2021	Tu Ya'nan	PASS	No deviation
7	15.207	Conducted Emission	Dec 18, 2021	Yang Lian	PASS	No deviation
8	15.247(d)	Restricted Frequency Bands	Dec 24, 2021	Su Zhan	PASS	No deviation
9	15.209, 15.247(d)	Radiated Emission	Dec 23, 2021	Su Zhan	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013, KDB558074 D01 v05r02.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting



in the test equipments. The ref offset 11.5dB contains two parts that cable loss 1.5dB and Attenuator 10dB.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.6. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106



2. 47 CFR Part 15C Requirements

2.1. Antenna Requirement

2.1.1. Applicable Standard

According to FCC 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.

2.1.2. Test Result: Compliant

Inside of the EUT has a PIFA antenna coupled with the I-PEX connector. Please refer to the EUT internal photos.

2.2. Duty Cycle of Test Signal

2.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this subclause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be nonconstant.

2.2.2. Test Description

Test Setup:



ANSI C63.10 2013 Clause 11.6 was used in order to prove compliance.

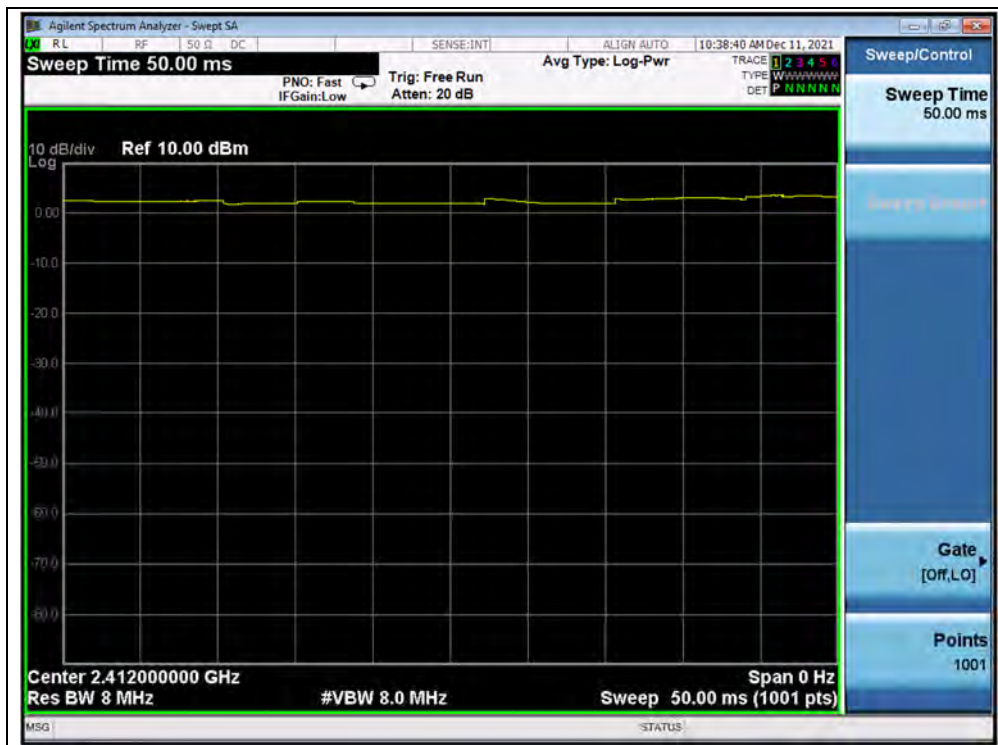


2.2.3. Test Result

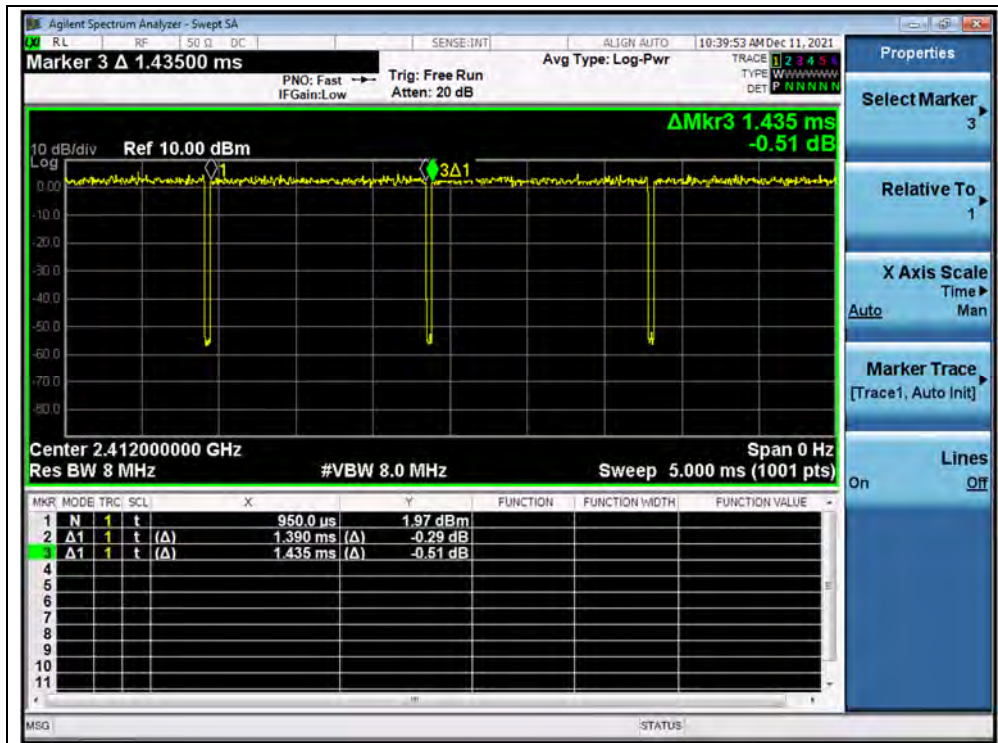
A. Test Verdict:

Test Mode	Duty Cycle (%) (D)	Duty Factor ($10 \cdot \lg[1/D]$)
802.11b	100.00	0.00
802.11g	96.86	0.14
802.11n (HT20)	96.65	0.15

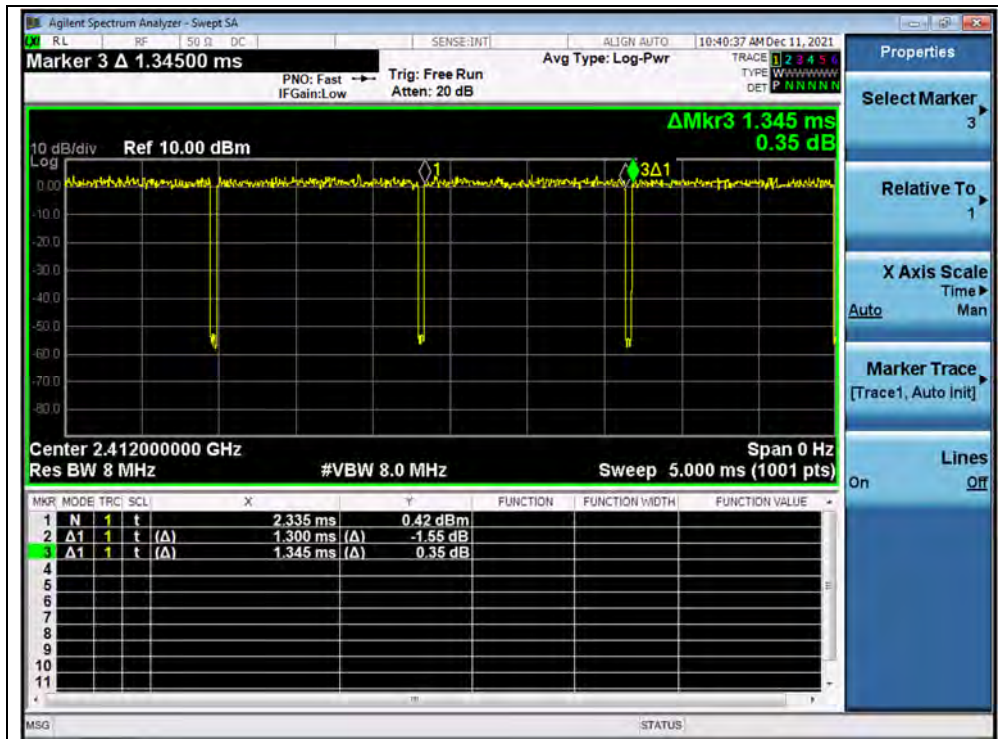
B. Test Plot:



(Channel 1, 802.11b)



(Channel 1, 802.11g)



(Channel 1, 802.11n (HT20))

2.3. Maximum Peak and Average Conducted Output Power

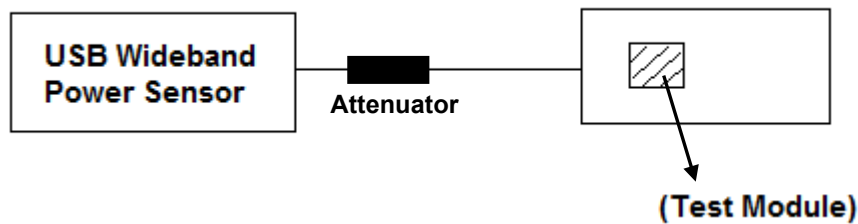
2.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

2.3.2. Test Description

The measured output power was calculated by the reading of the USB Wideband Power Sensor and calibration.

Test Setup:



The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.



2.3.3. Test Result

Maximum Peak Conducted Output Power

802.11b Mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	20.13	0.103	30	1	PASS
6	2437	19.42	0.087			PASS
11	2462	19.94	0.099			PASS

802.11g Mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	19.48	0.089	30	1	PASS
6	2437	23.46	0.222			PASS
11	2462	18.74	0.075			PASS

802.11n (HT20) Mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	19.49	0.089	30	1	PASS
6	2437	23.91	0.246			PASS
11	2462	19.49	0.089			PASS



Maximum Average Conducted Output Power

802.11b Mode

Channel	Frequency (MHz)	Average Power				Limit		Verdict
		Measured	Duty Factor	Duty Factor Calculated		dBm	W	
		dBm		dBm	W			
1	2412	17.61	0.00	17.61	0.058	30	1	PASS
6	2437	17.13		17.13	0.052			PASS
11	2462	17.81		17.81	0.060			PASS

802.11g Mode

Channel	Frequency (MHz)	Average Power				Limit		Verdict
		Measured	Duty Factor	Duty Factor Calculated		dBm	W	
		dBm		dBm	W			
1	2412	8.01	0.14	8.15	0.007	30	1	PASS
6	2437	16.62		16.76	0.047			PASS
11	2462	8.02		8.16	0.007			PASS

802.11n (HT20) Mode

Channel	Frequency (MHz)	Average Power				Limit		Verdict
		Measured	Duty Factor	Duty Factor Calculated		dBm	W	
		dBm		dBm	W			
1	2412	7.80	0.15	7.95	0.006	30	1	PASS
6	2437	16.48		16.63	0.046			PASS
11	2462	7.81		7.96	0.006			PASS

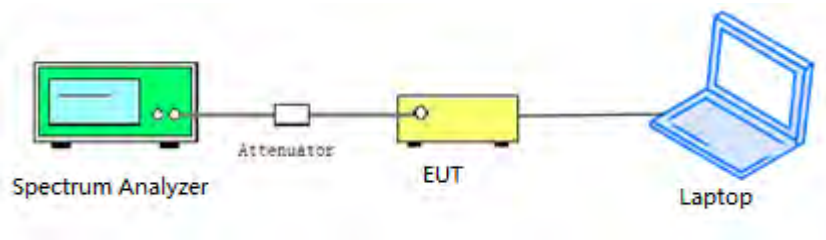
2.4. Bandwidth

2.4.1. Requirement

According to FCC section 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.

2.4.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

2.4.3. Test Procedure

KDB 558074 Section 8.2 was used in order to prove compliance.



2.4.4. Test Result

802.11b Mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	7.552	≥500	PASS
6	2437	8.061	≥500	PASS
11	2462	8.532	≥500	PASS

B. Test Plot:



(Channel 1, 802.11b)



(Channel 6, 802.11b)



(Channel 11, 802.11b)



802.11g Mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	12.54	≥500	PASS
6	2437	15.75	≥500	PASS
11	2462	15.72	≥500	PASS

B. Test Plot:



(Channel 1, 802.11g)



(Channel 6, 802.11g)



(Channel 11, 802.11g)

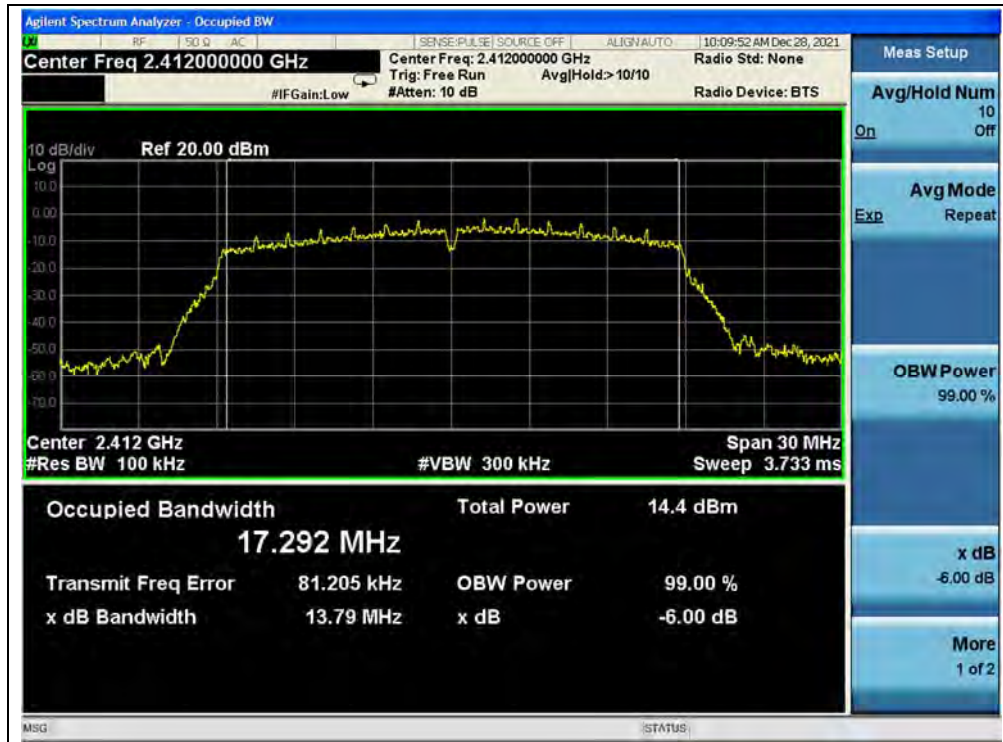


802.11n (HT20) Mode

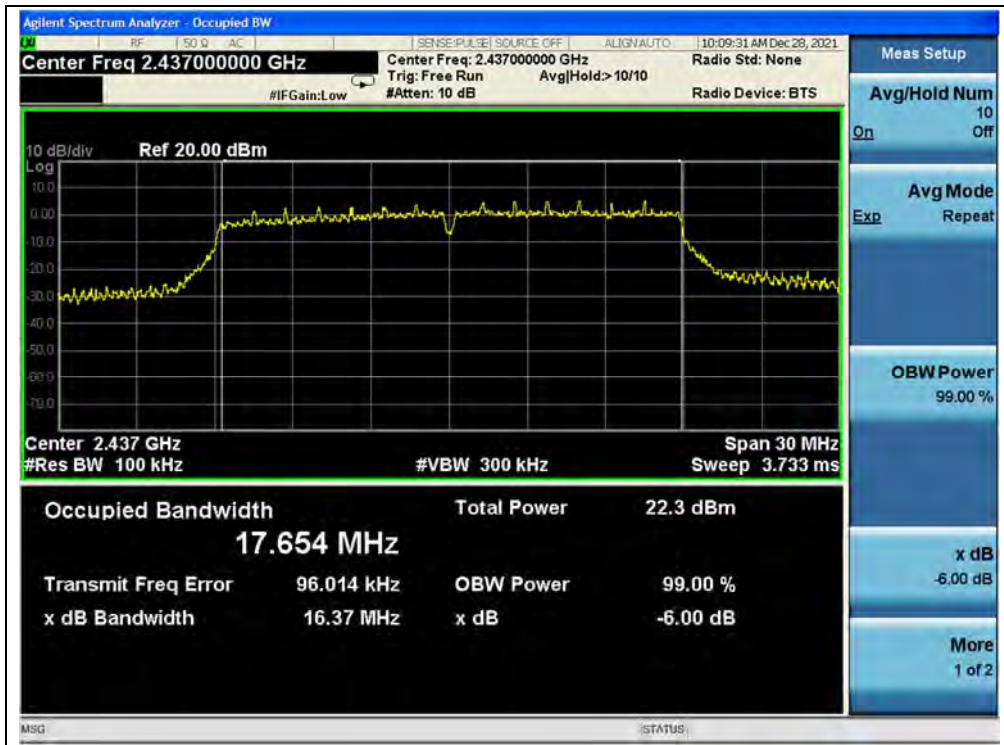
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	13.79	≥500	PASS
6	2437	16.37	≥500	PASS
11	2462	16.38	≥500	PASS

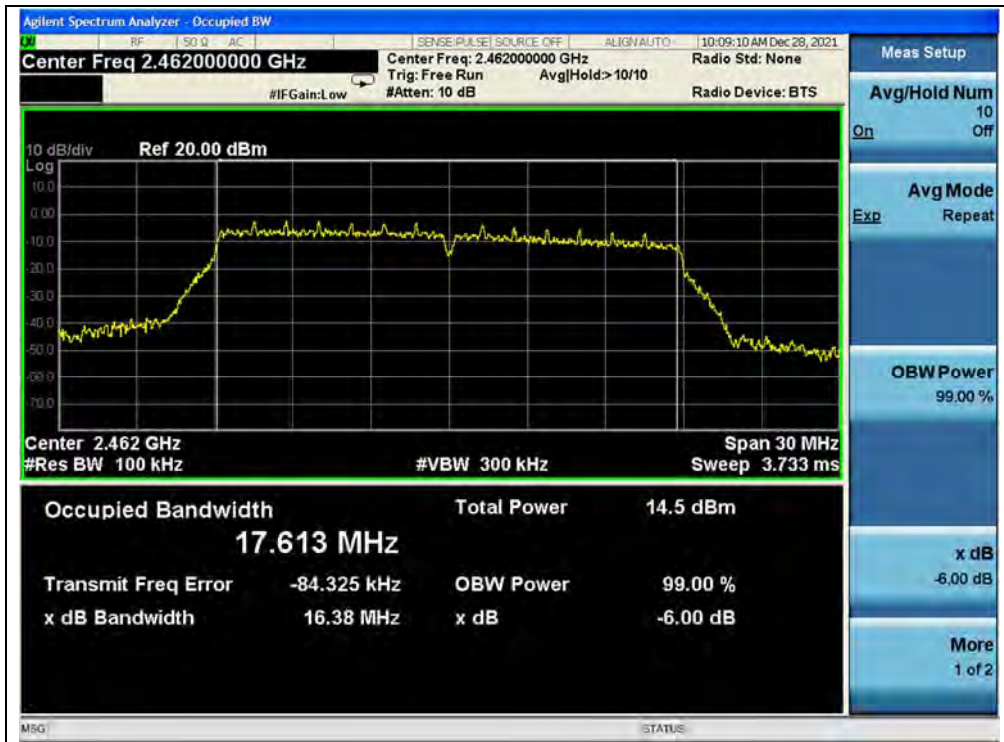
B. Test Plot:



(Channel 1, 802.11n (HT20))



(Channel 6, 802.11n (HT20))



(Channel 11, 802.11n (HT20))

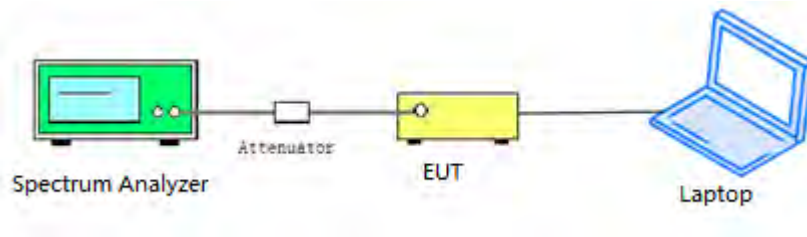
2.5. Conducted Spurious Emissions and Band Edge

2.5.1. Requirement

According to FCC section 15.247(c), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.5.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

2.5.3. Test Procedure

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.



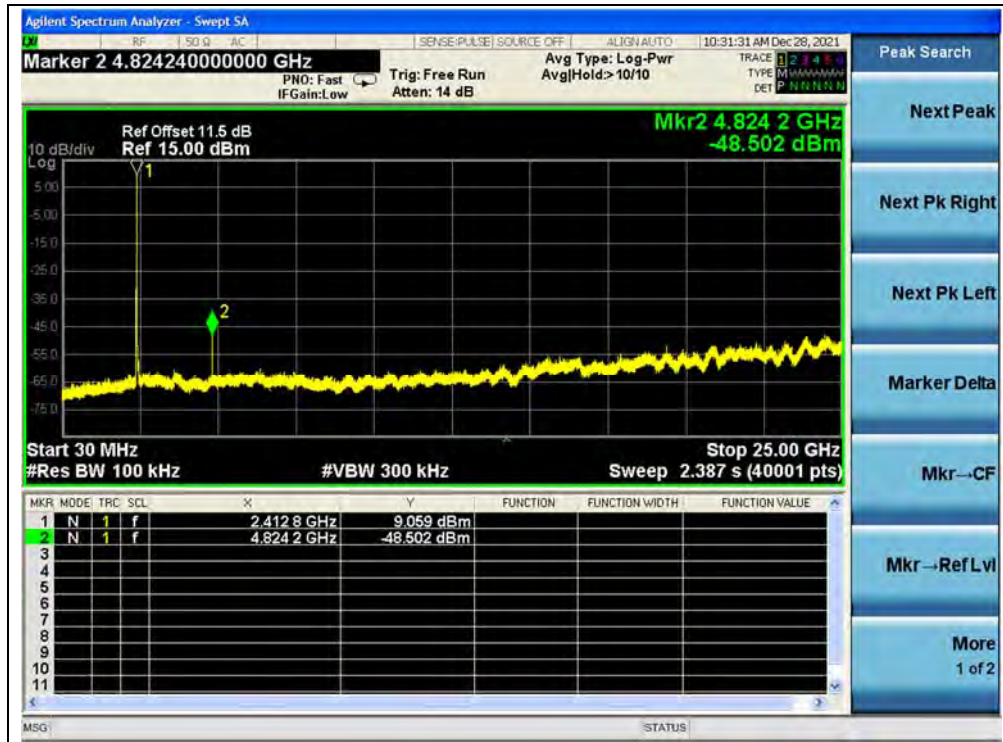
2.5.4. Test Result

802.11b Mode

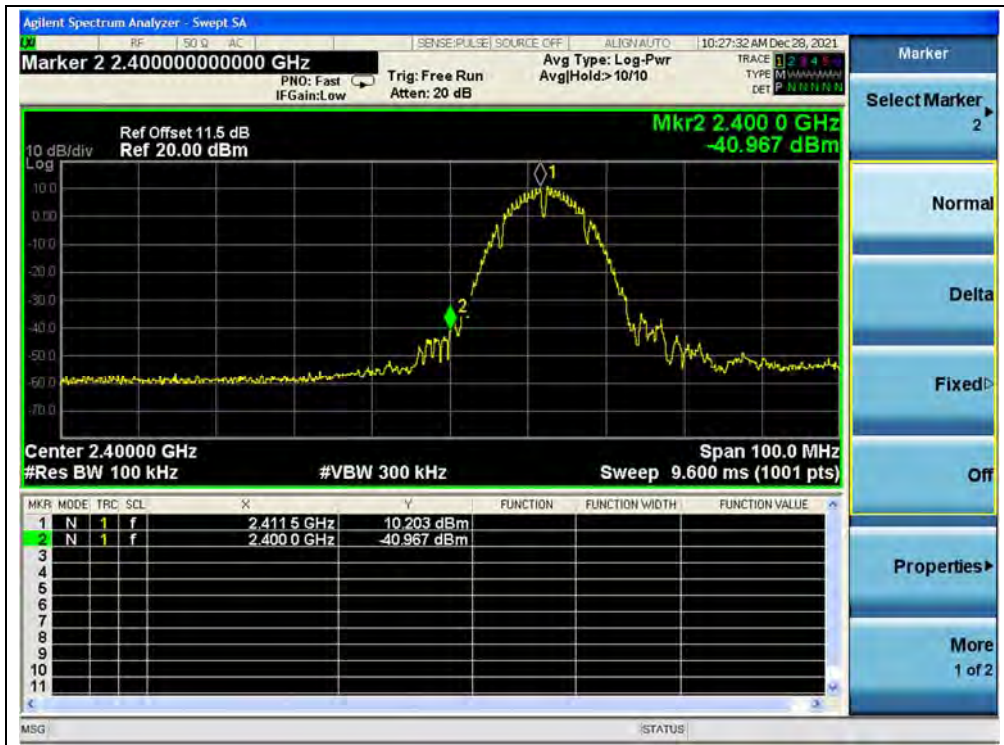
A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-48.50	9.06	-10.94	PASS
6	2437	-48.44	8.40	-11.60	PASS
11	2462	-46.53	8.65	-11.35	PASS

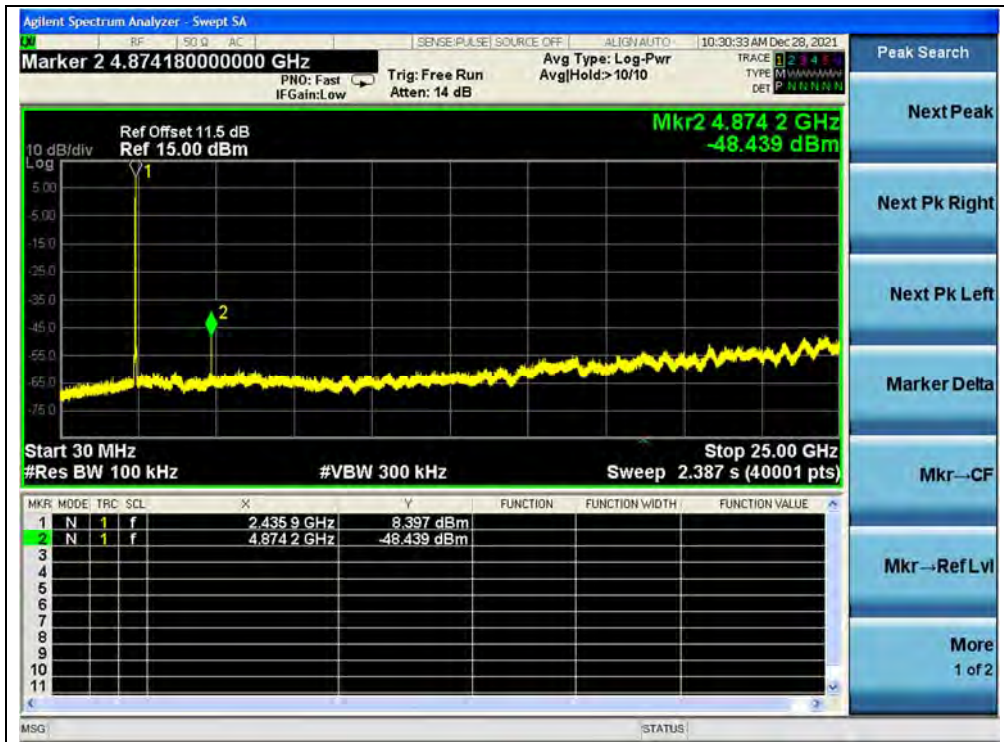
B. Test Plot:



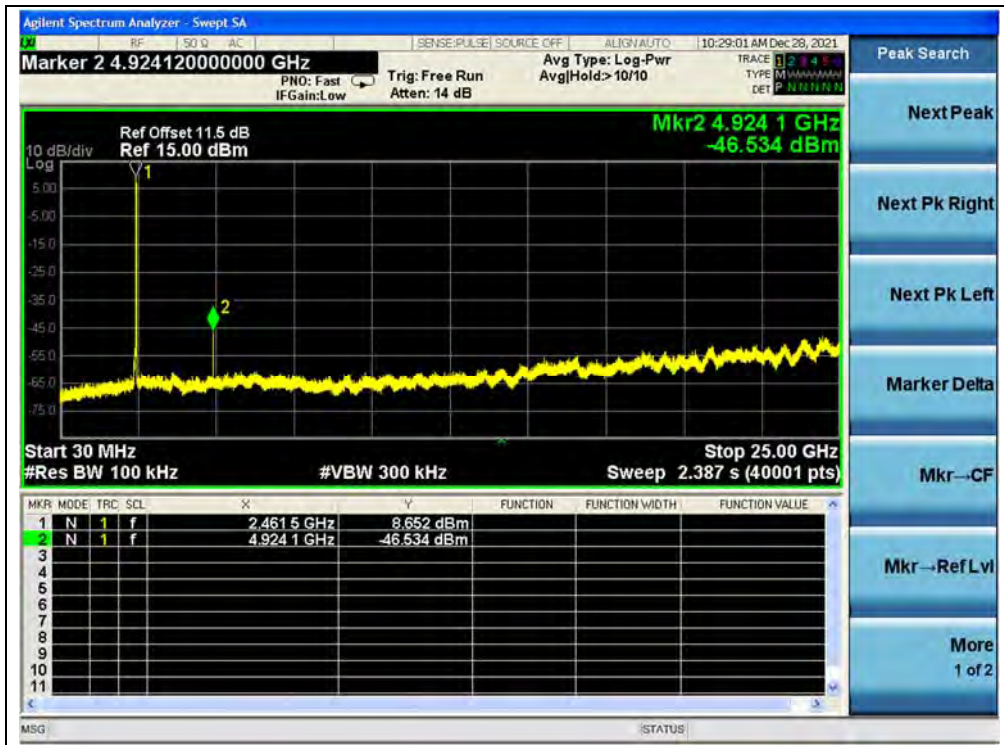
(30MHz to 25GHz, Channel 1, 802.11b)



(Band Edge, Channel 1, 802.11b)



(30MHz to 25GHz, Channel 6, 802.11b)



(30MHz to 25GHz, Channel 11, 802.11b)



(Band Edge, Channel 11, 802.11b)

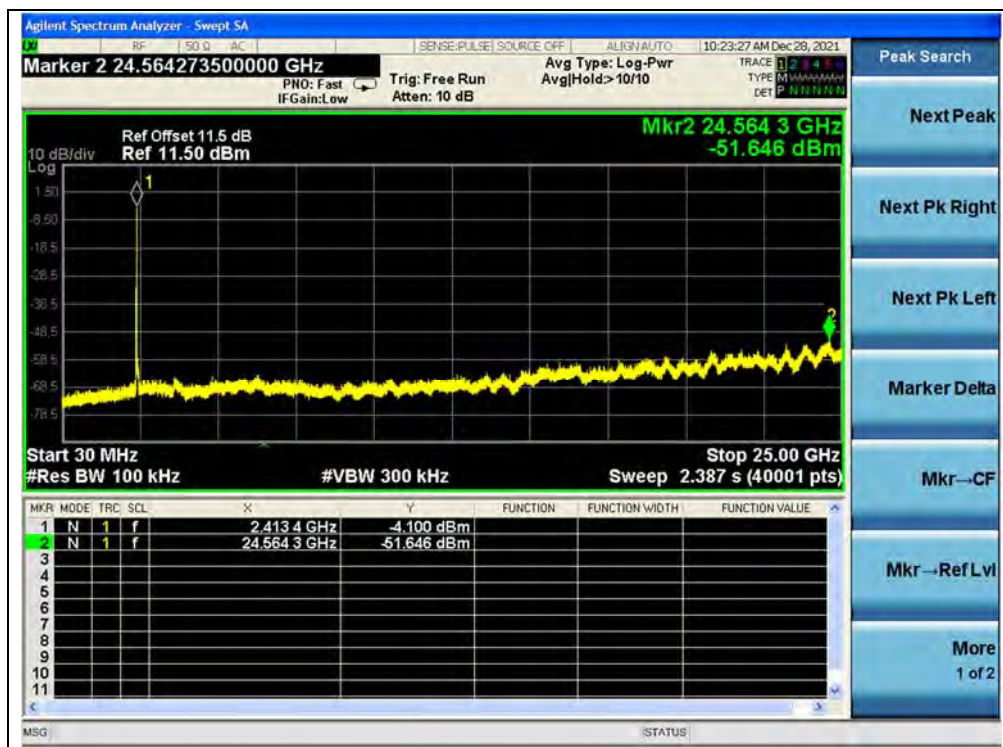


802.11g Mode

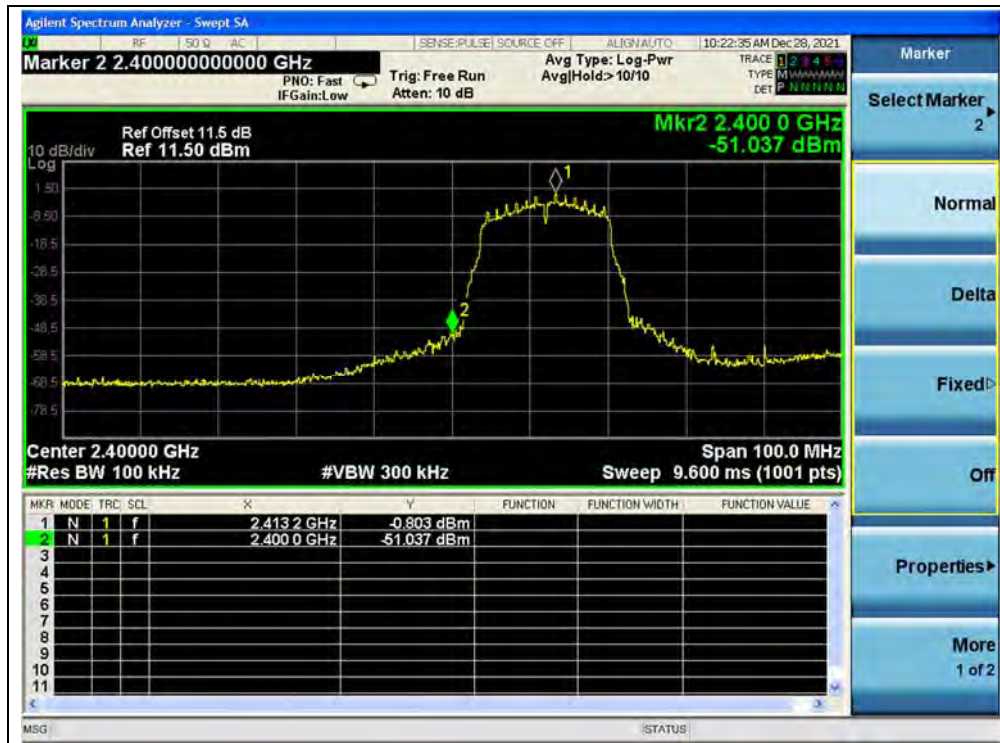
A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-51.65	-4.10	-24.10	PASS
6	2437	-52.41	3.82	-16.18	PASS
11	2462	-52.13	-4.58	-24.58	PASS

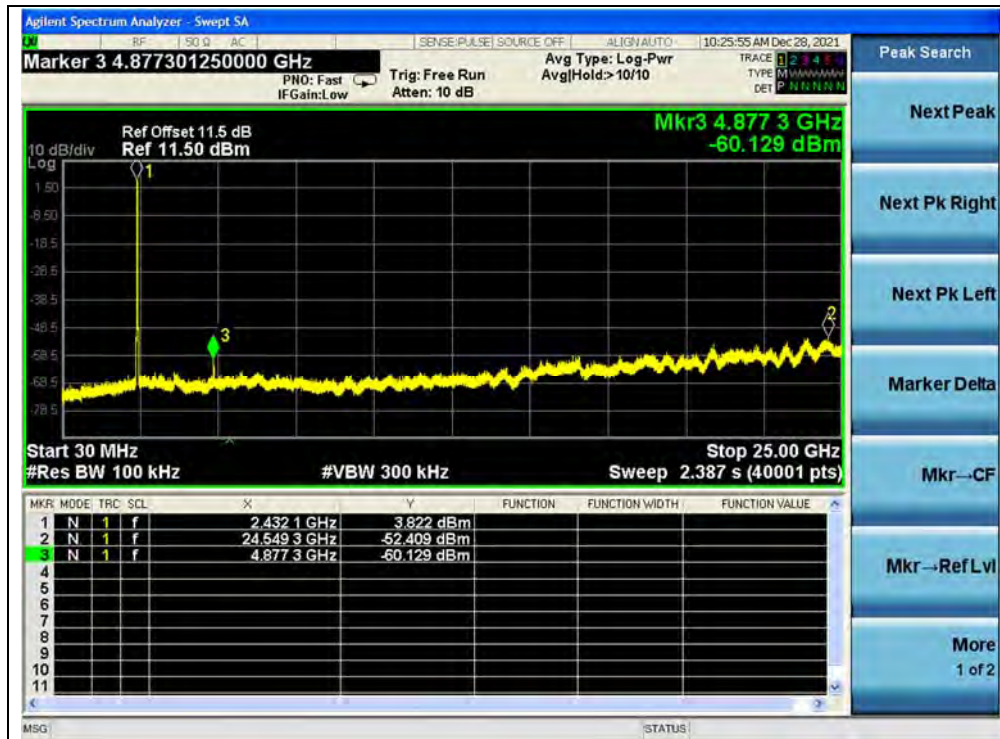
B. Test Plot:



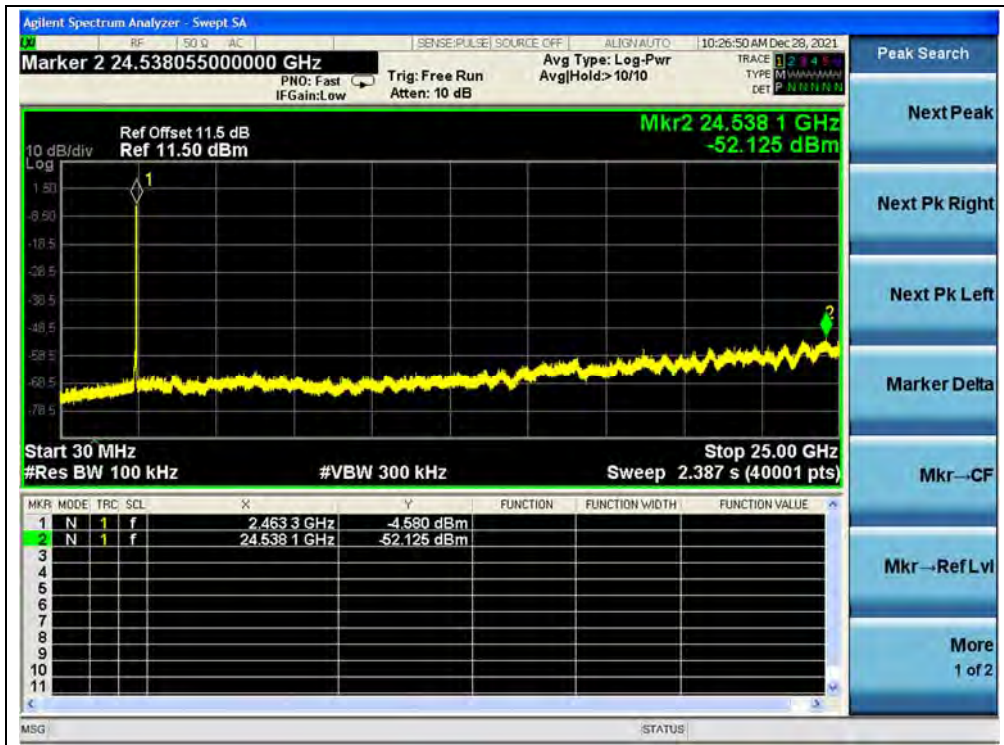
(30MHz to 25GHz, Channel 1, 802.11g)



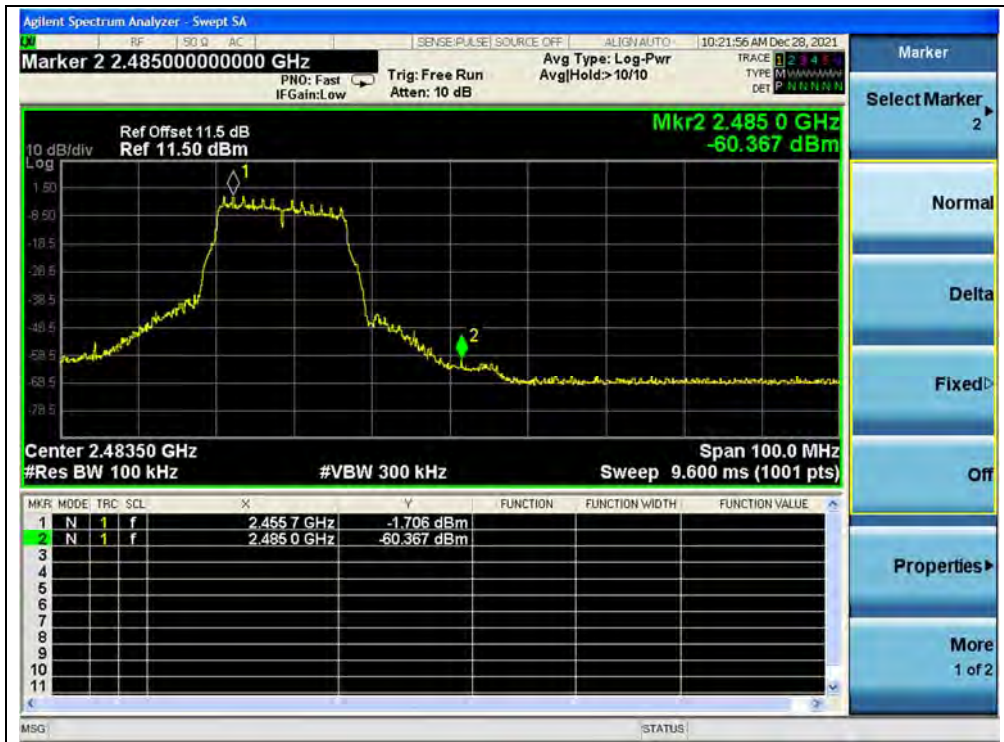
(Band Edge, Channel 1, 802.11g)



(30MHz to 25GHz, Channel 6, 802.11g)



(30MHz to 25GHz, Channel 11, 802.11g)



(Band Edge, Channel 11, 802.11g)

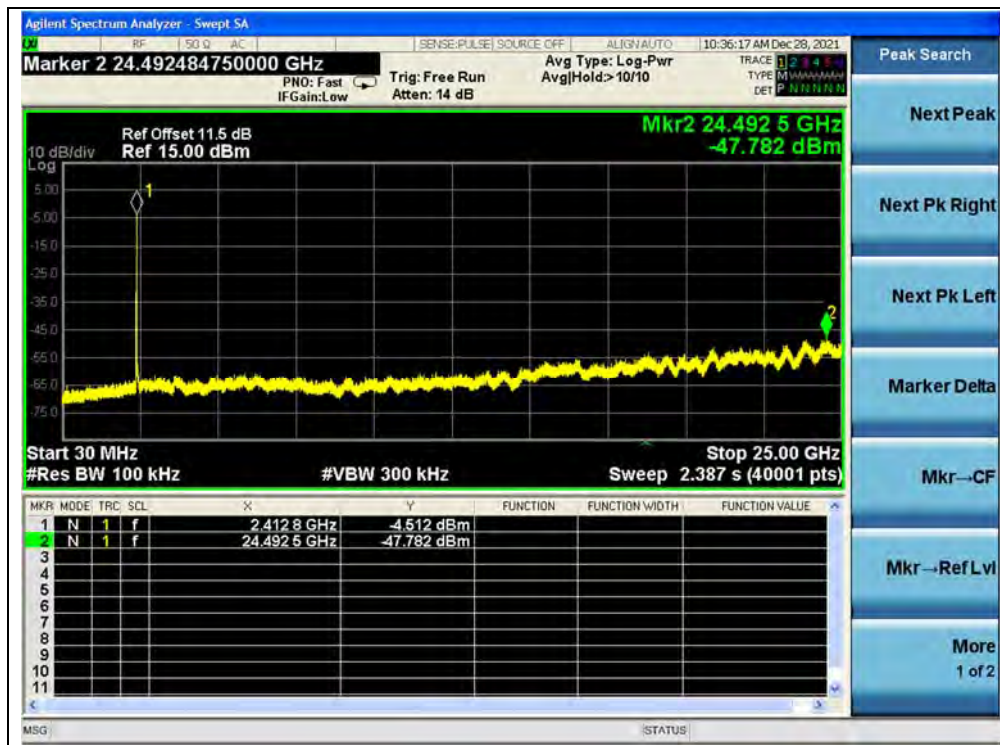


802.11n (HT20) Mode

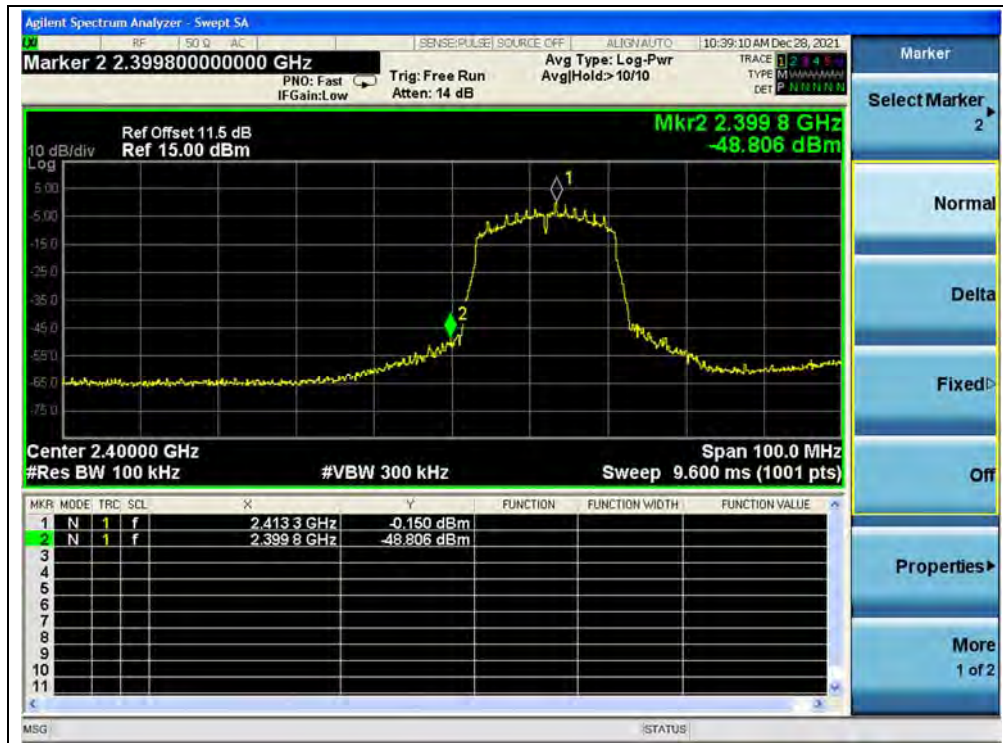
A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-47.78	-4.51	-24.51	PASS
6	2437	-48.53	3.28	-16.72	PASS
11	2462	-48.23	-1.71	-21.71	PASS

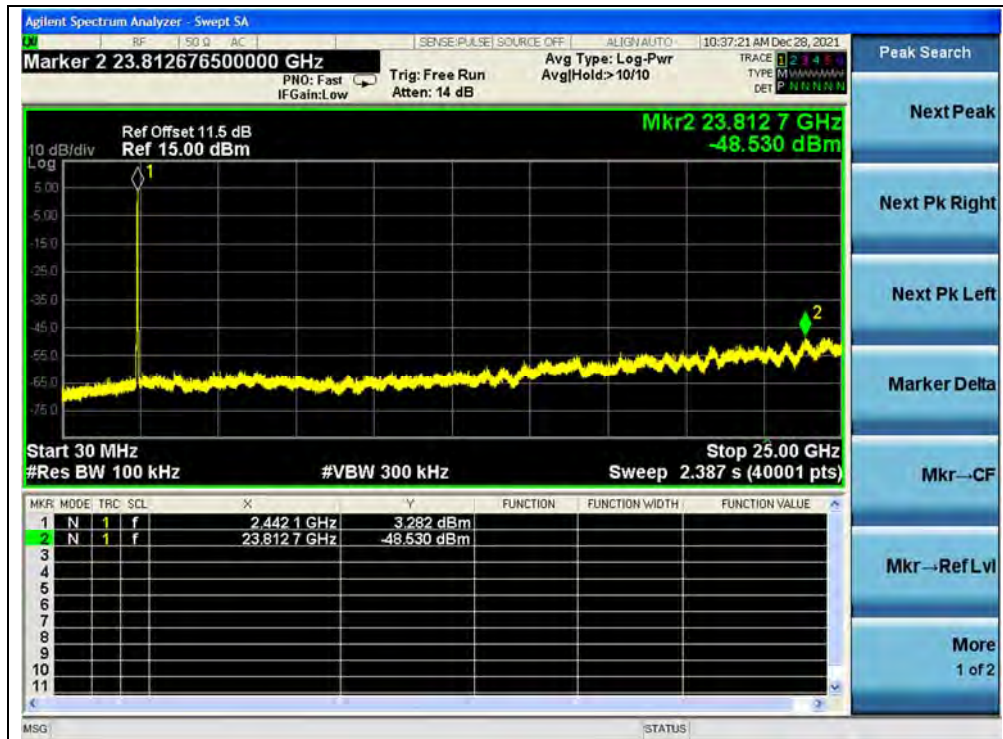
B. Test Plot:



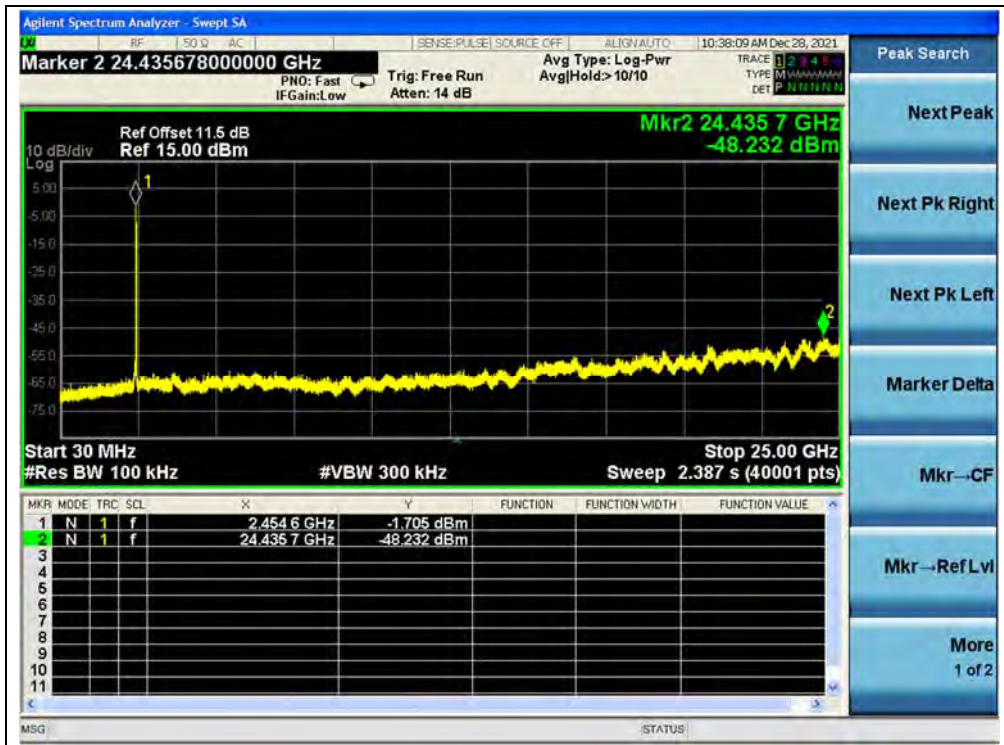
(30MHz to 25GHz, Channel 1, 802.11n (HT20))



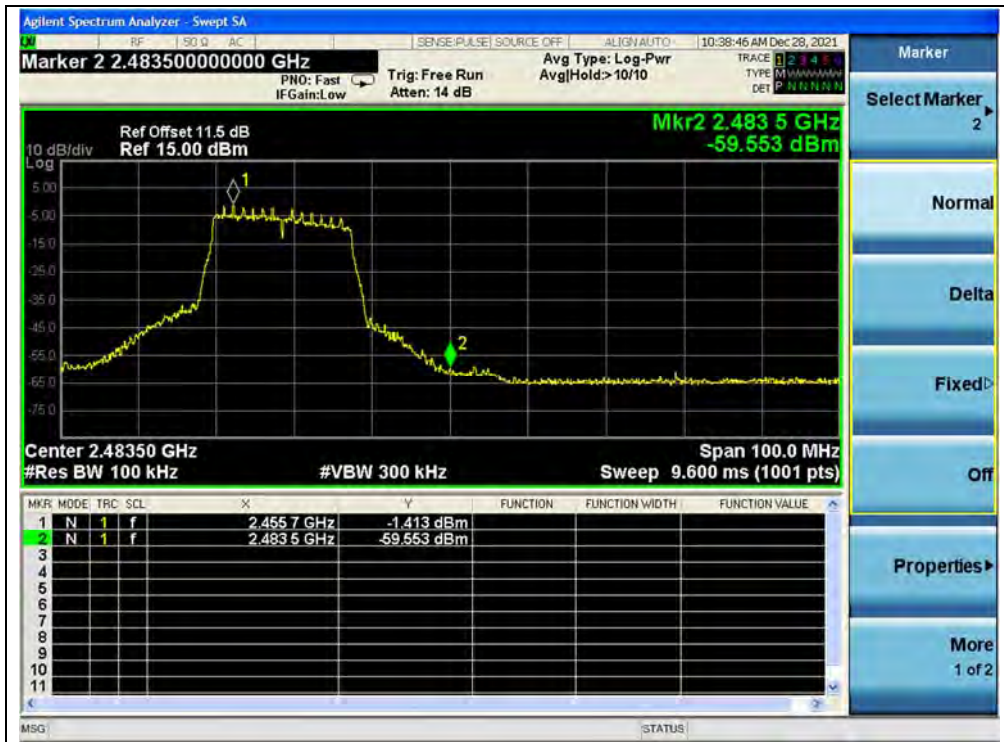
(Band Edge, Channel 1, 802.11n (HT20))



(30MHz to 25GHz, Channel 6, 802.11n (HT20))



(30MHz to 25GHz, Channel 11, 802.11n (HT20))



(Band Edge, Channel 11, 802.11n (HT20))

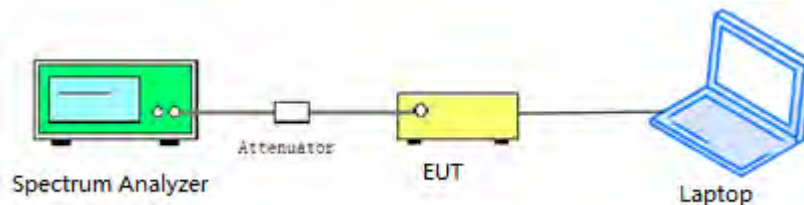
2.6. Power Spectral Density

2.6.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

2.6.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.6.3. Test Procedure

KDB 558074 Section 8.4 was used in order to prove compliance.



2.6.4. Test Result

802.11b Mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-3.29	8	PASS
6	2437	-5.07	8	PASS
11	2462	-3.77	8	PASS

B. Test Plot:



(Channel 1, 802.11b)



(Channel 6, 802.11b)



(Channel 11, 802.11b)



802.11g Mode

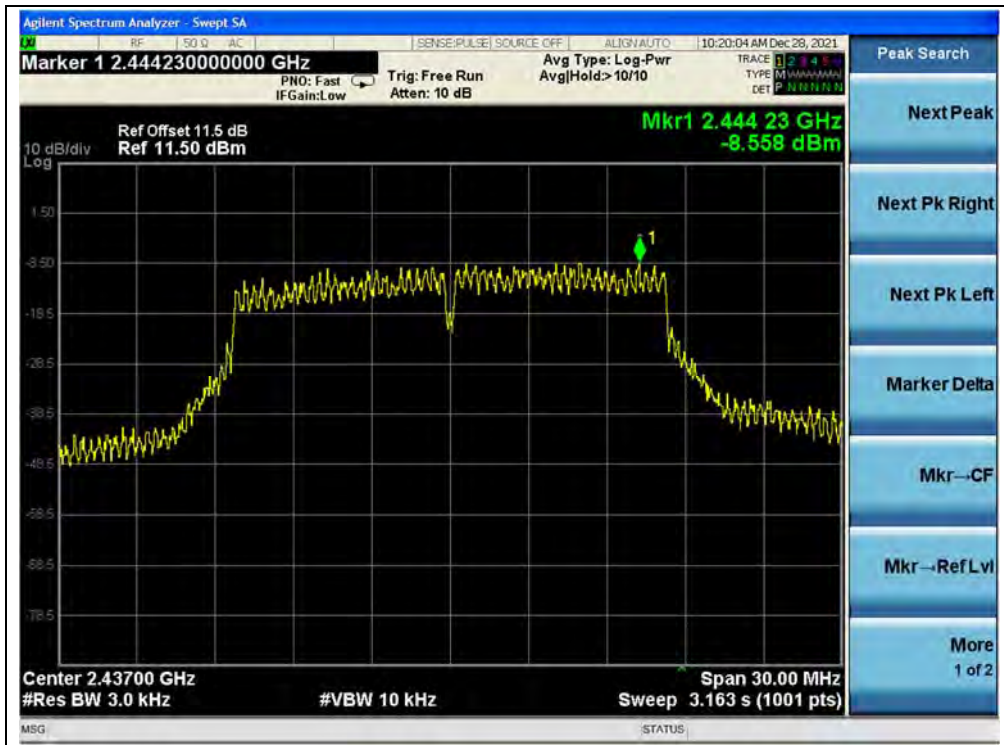
A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-12.02	8	PASS
6	2437	-8.56	8	PASS
11	2462	-15.70	8	PASS

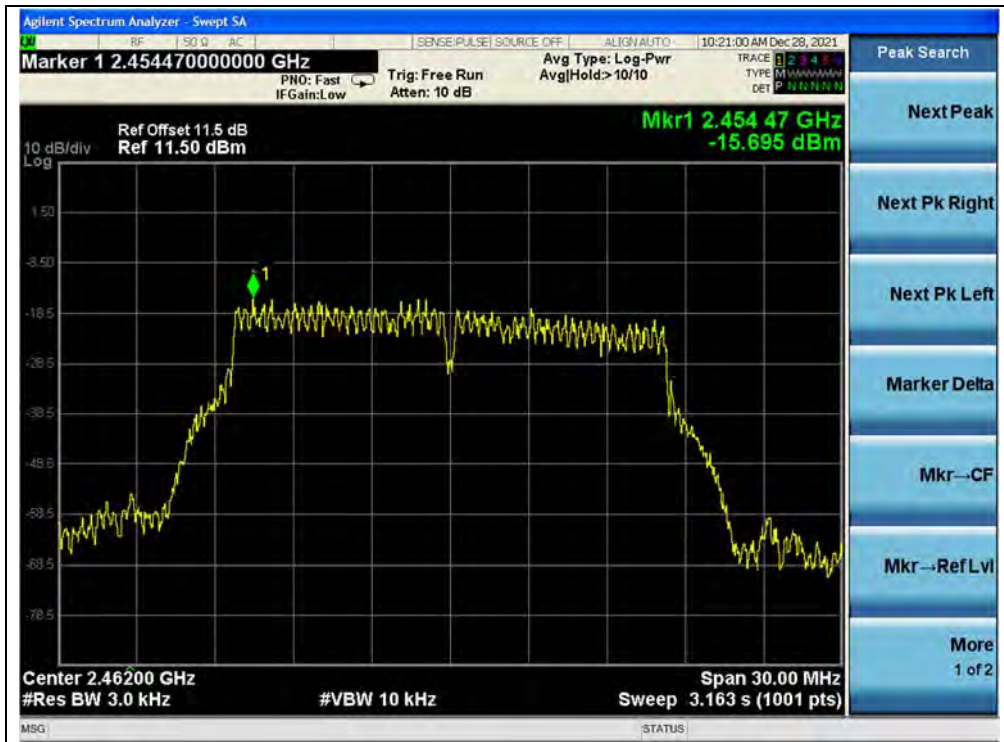
B. Test Plot:



(Channel 1, 802.11g)



(Channel 6, 802.11g)



(Channel 11, 802.11g)



802.11n (HT20) Mode

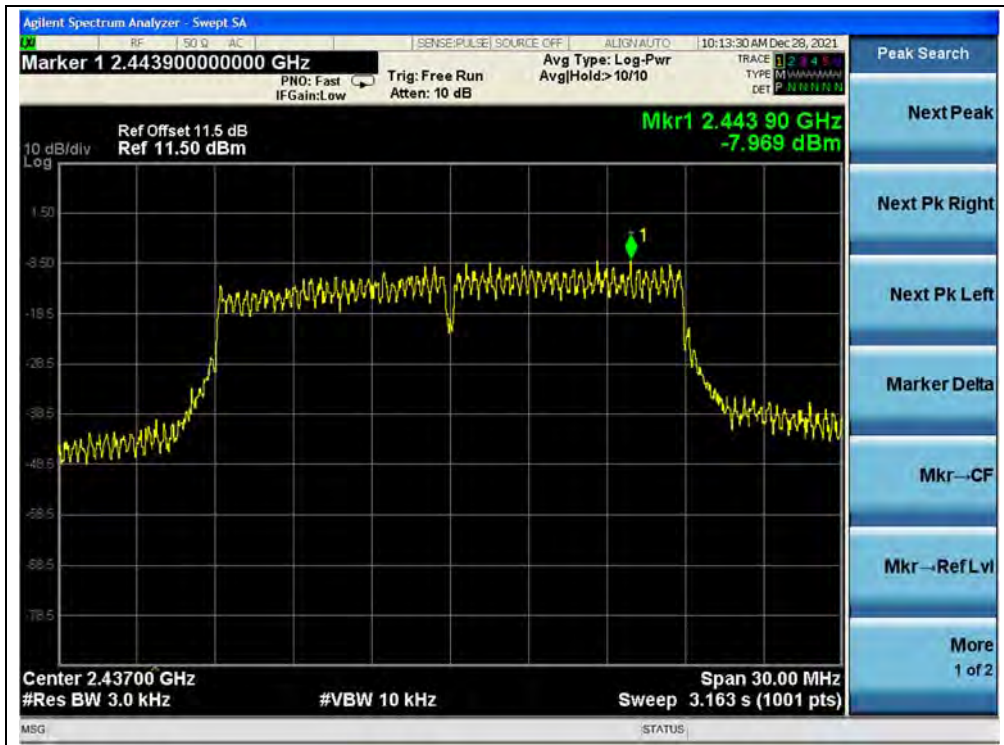
A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-15.13	8	PASS
6	2437	-7.97	8	PASS
11	2462	-16.65	8	PASS

B. Test Plot:



(Channel 1, 802.11n (HT20))



(Channel 6, 802.11n (HT20))



(Channel 11, 802.11n (HT20))

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

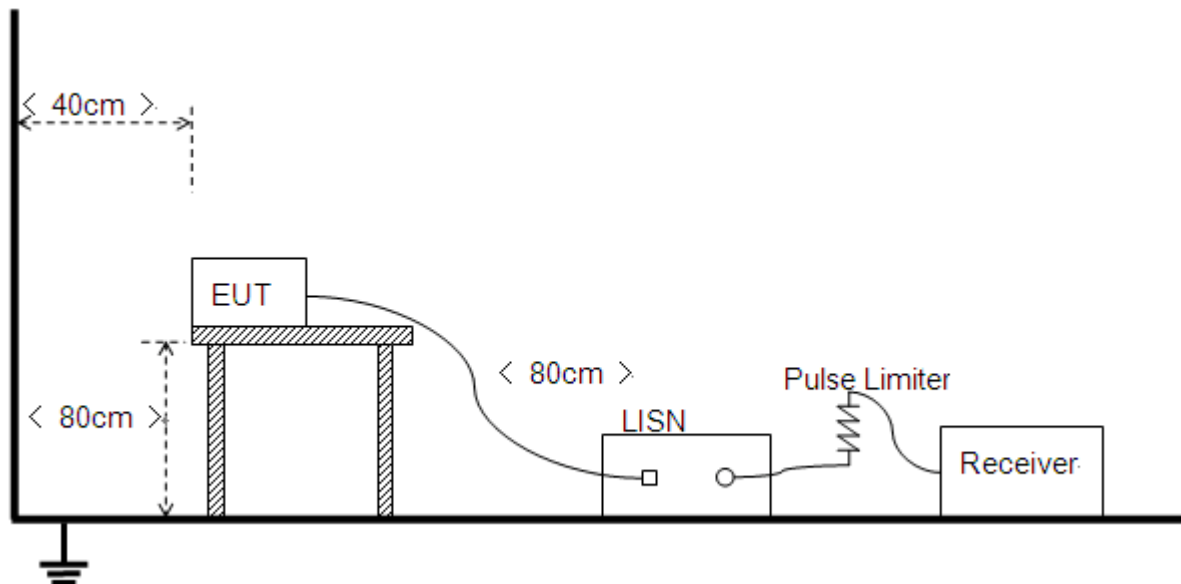
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10 2013.



2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+ Adaptor + WIFI TX

Test Voltage: AC 120V/60Hz

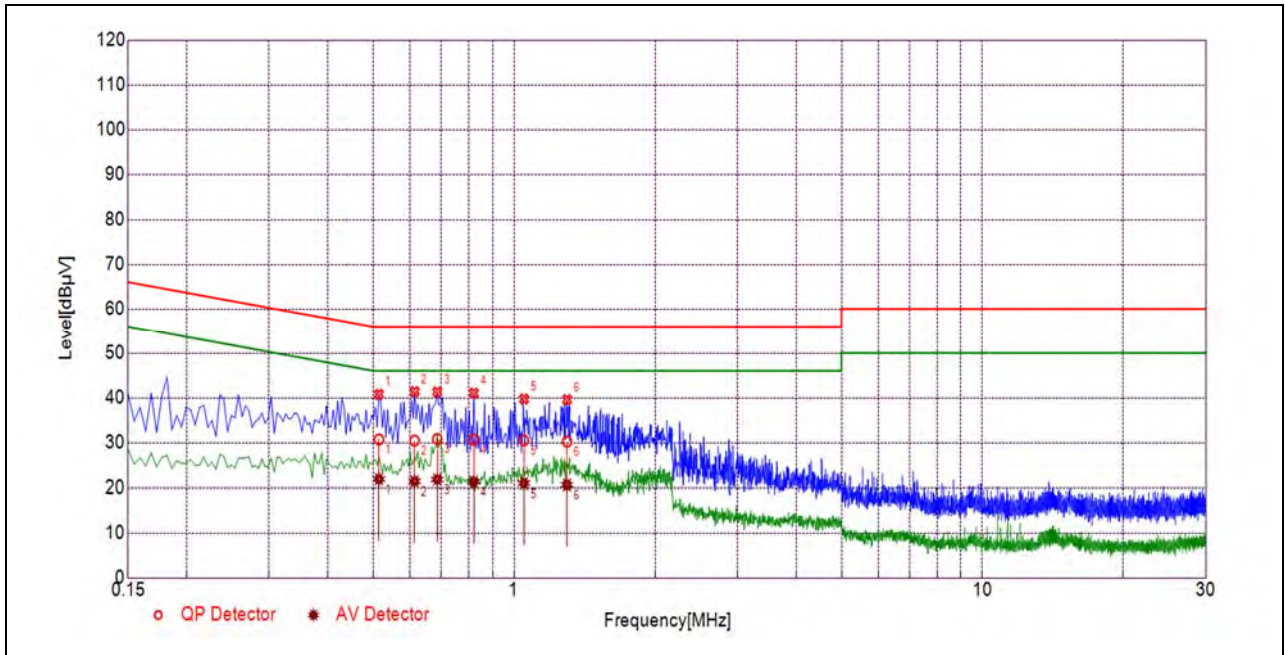
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

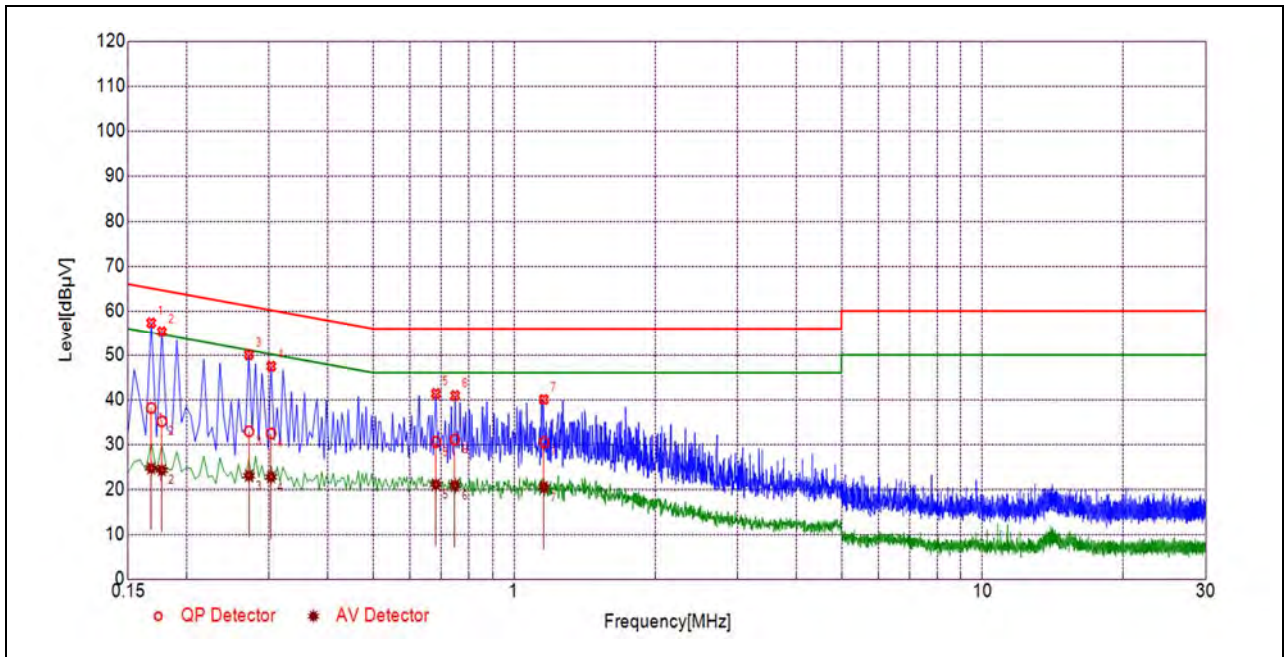
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.5147	30.70	21.87	56.00	46.00	Line	PASS
2	0.6133	30.43	21.37	56.00	46.00		PASS
3	0.6855	30.80	21.79	56.00	46.00		PASS
4	0.8203	30.62	21.27	56.00	46.00		PASS
5	1.0494	30.46	20.97	56.00	46.00		PASS
6	1.2967	30.21	20.63	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1680	38.12	24.65	65.06	55.06	Neutral	PASS
2	0.1770	35.12	24.22	64.62	54.62		PASS
3	0.2716	32.89	22.98	61.07	51.07		PASS
4	0.3028	32.41	22.68	60.17	50.17		PASS
5	0.6811	30.50	21.00	56.00	46.00		PASS
6	0.7478	31.01	20.84	56.00	46.00		PASS
7	1.1588	30.42	20.43	56.00	46.00		PASS

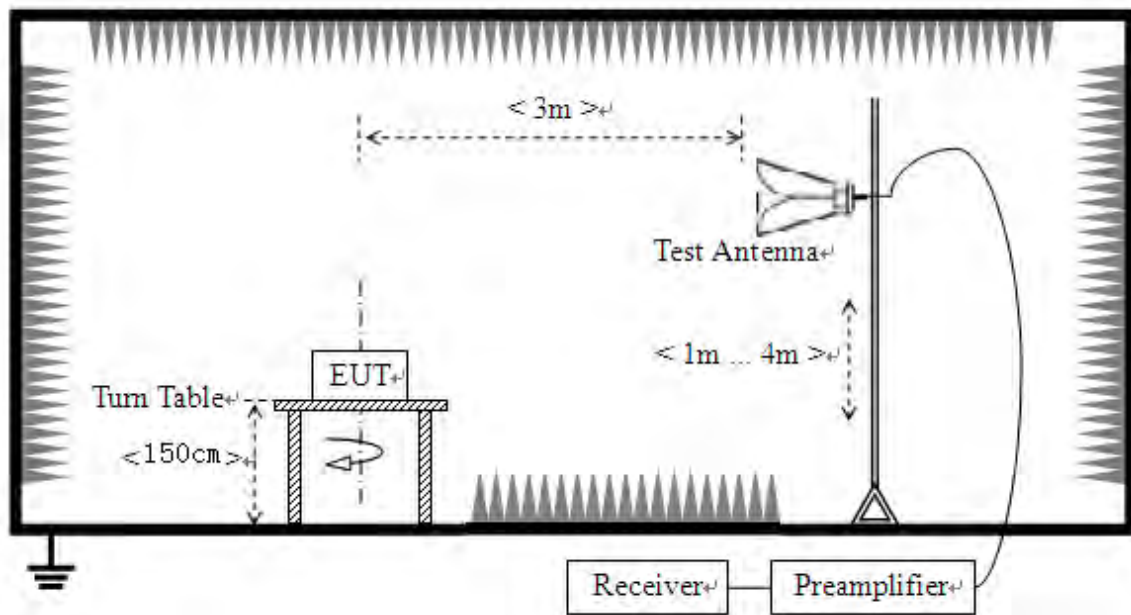
2.8. Restricted Frequency Bands

2.8.1. Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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).

2.8.2. Test Description

Test Setup



The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.



2.8.3. Test Procedure

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

2.8.4. Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

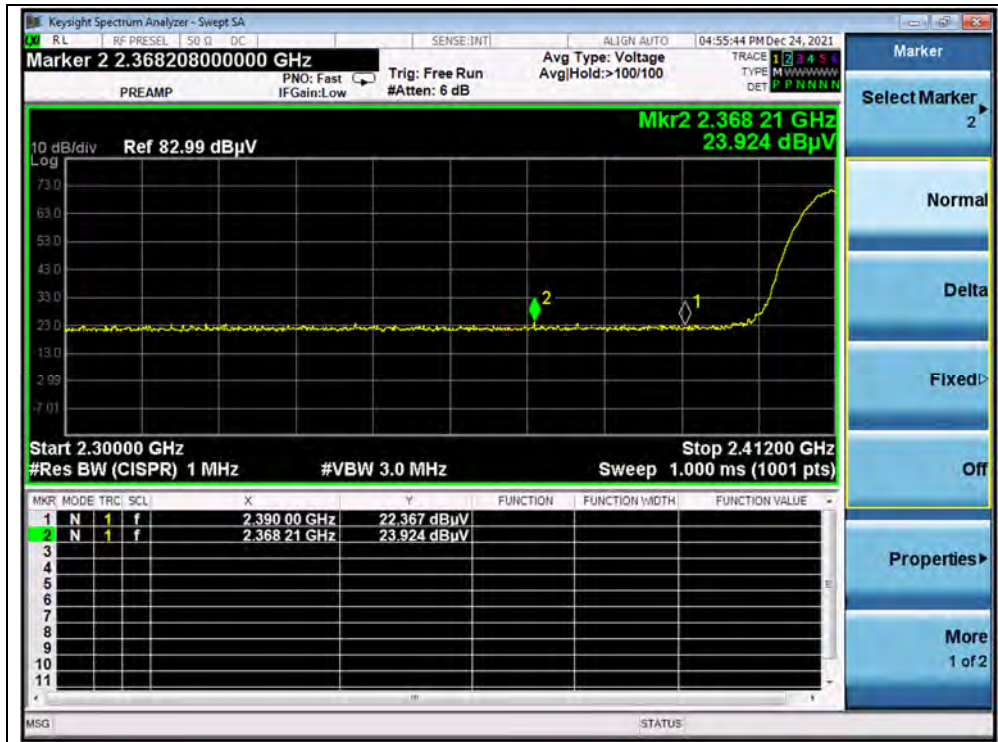
802.11b Mode

A. Test Verdict:

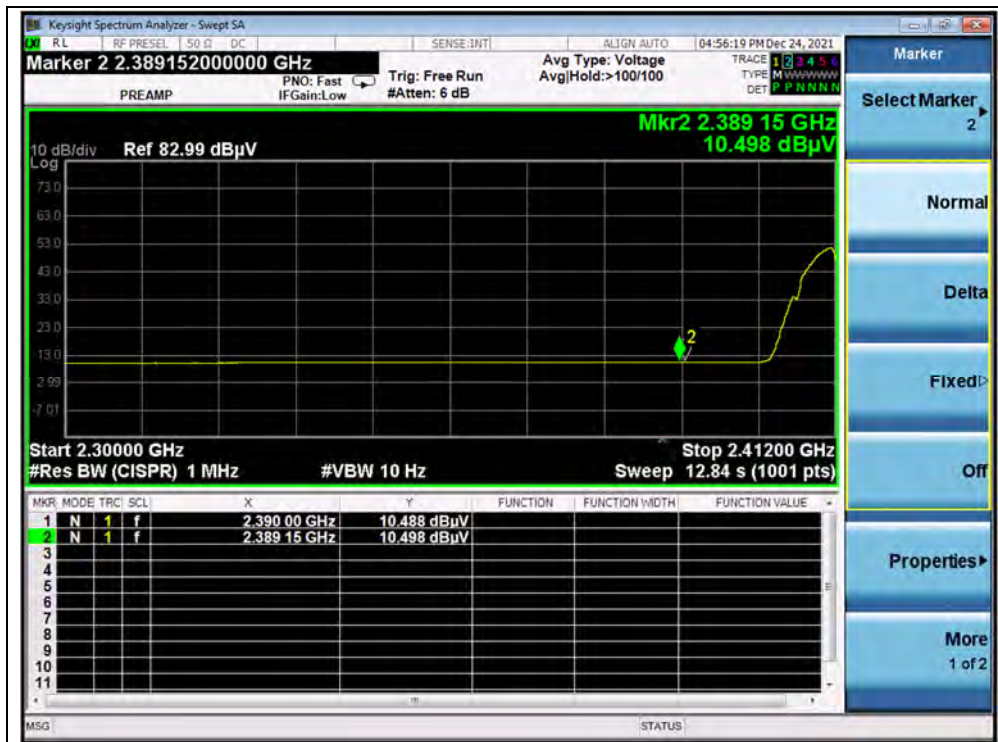
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
1	2368.21	PK	23.92	6.74	27.20	57.86	74	PASS
1	2389.15	AV	10.50	6.74	27.20	44.44	54	PASS
11	2494.87	PK	23.28	6.74	27.20	57.22	74	PASS
11	2484.80	AV	10.21	6.74	27.20	44.15	54	PASS



B. Test Plot:



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)



(AVERAGE, Channel 11, 802.11b)

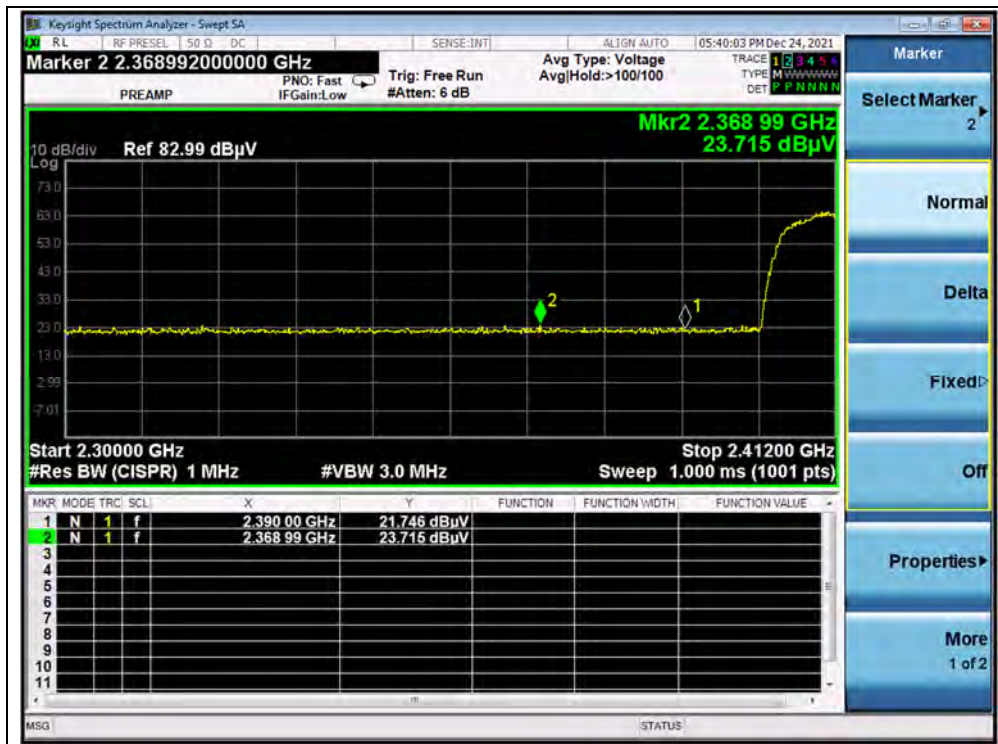


802.11g Mode

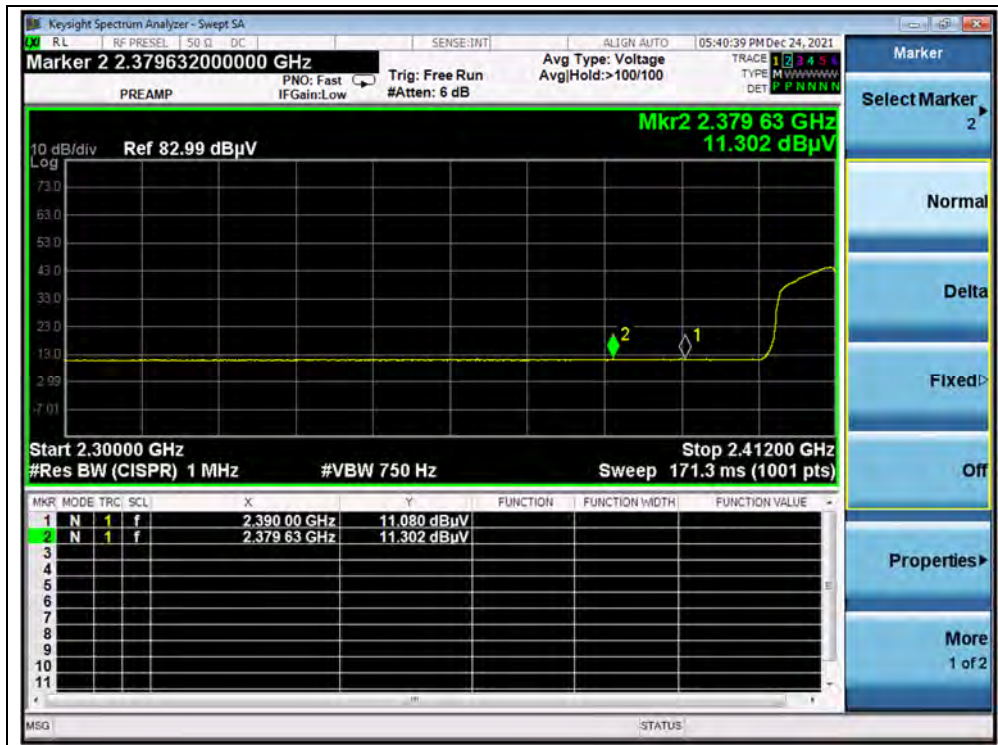
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2368.99	PK	23.72	6.74	27.20	57.66	74	PASS
1	2379.63	AV	11.30	6.74	27.20	45.24	54	PASS
11	2497.00	PK	23.88	6.74	27.20	57.82	74	PASS
11	2485.41	AV	10.96	6.74	27.20	44.90	54	PASS

B. Test Plot:



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)



(AVERAGE, Channel 11, 802.11g)

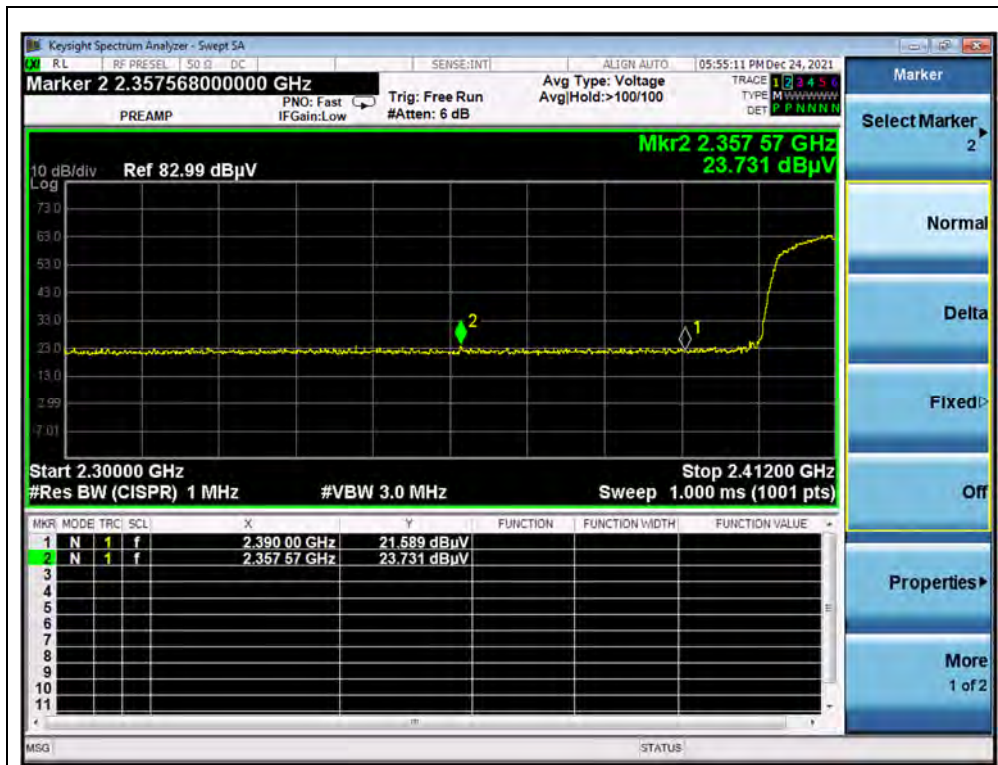


802.11n (HT20) Mode

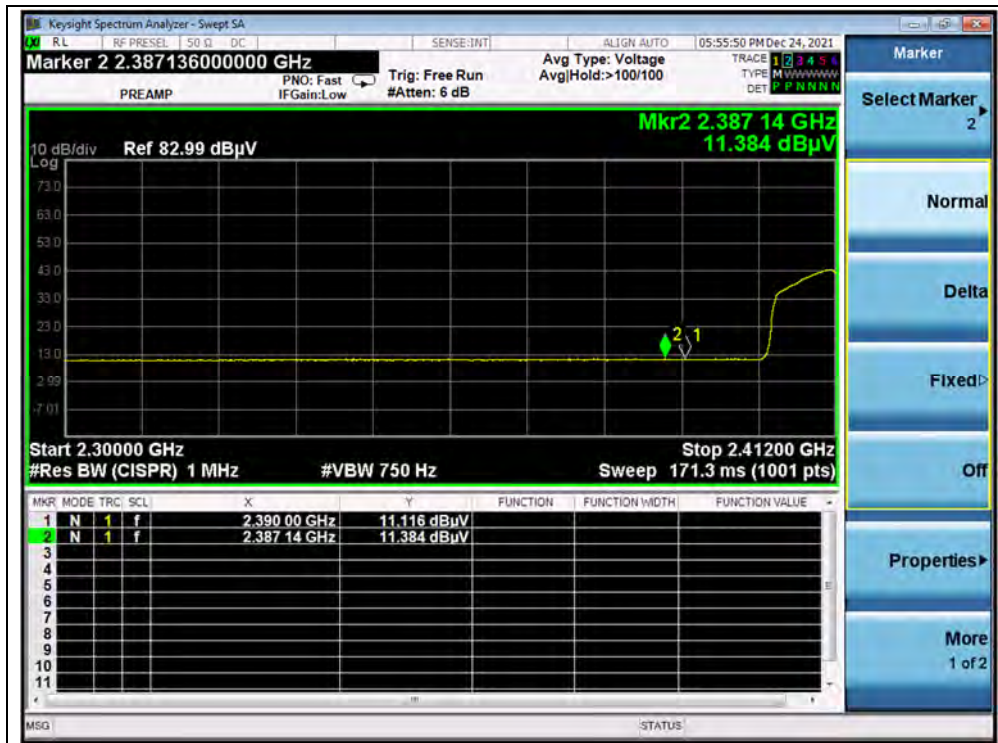
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2357.57	PK	23.73	6.74	27.20	57.67	74	PASS
1	2387.14	AV	11.38	6.74	27.20	45.32	54	PASS
11	2492.17	PK	22.62	6.74	27.20	56.56	74	PASS
11	2484.00	AV	10.96	6.74	27.20	44.90	54	PASS

B. Test Plot:



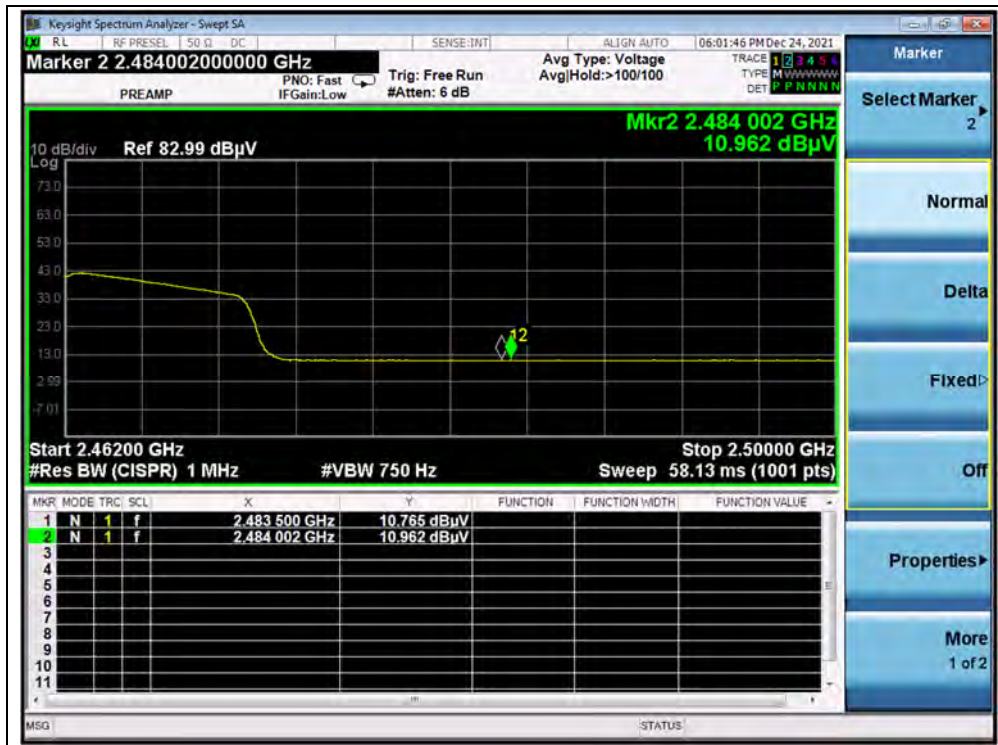
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 11, 802.11n (HT20))



(AVERAGE, Channel 11, 802.11n (HT20))



2.9. Radiated Emission

2.9.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

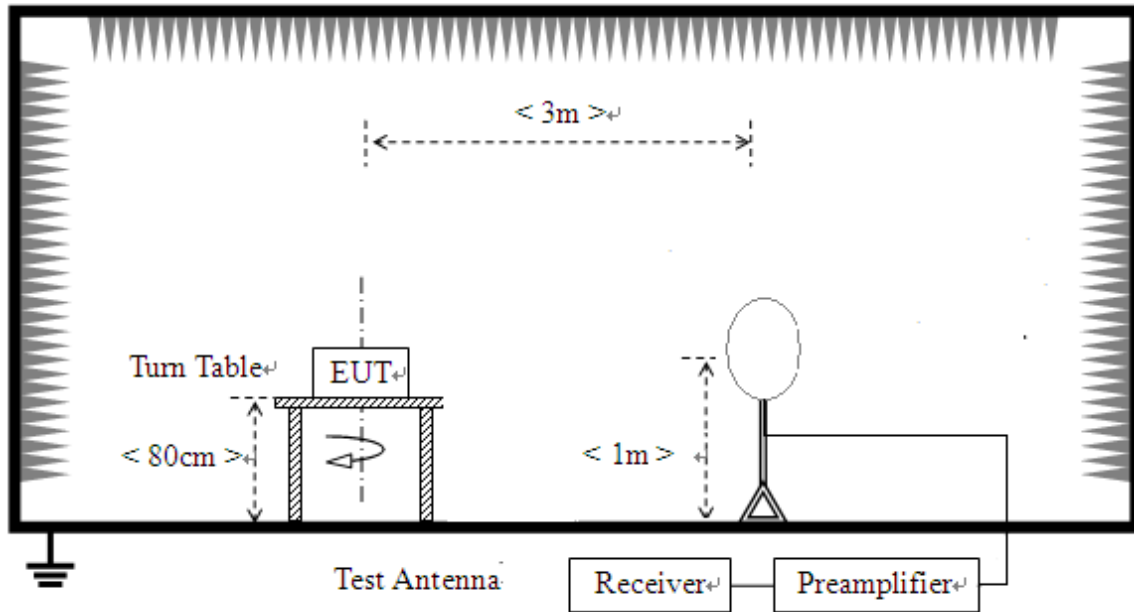
Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

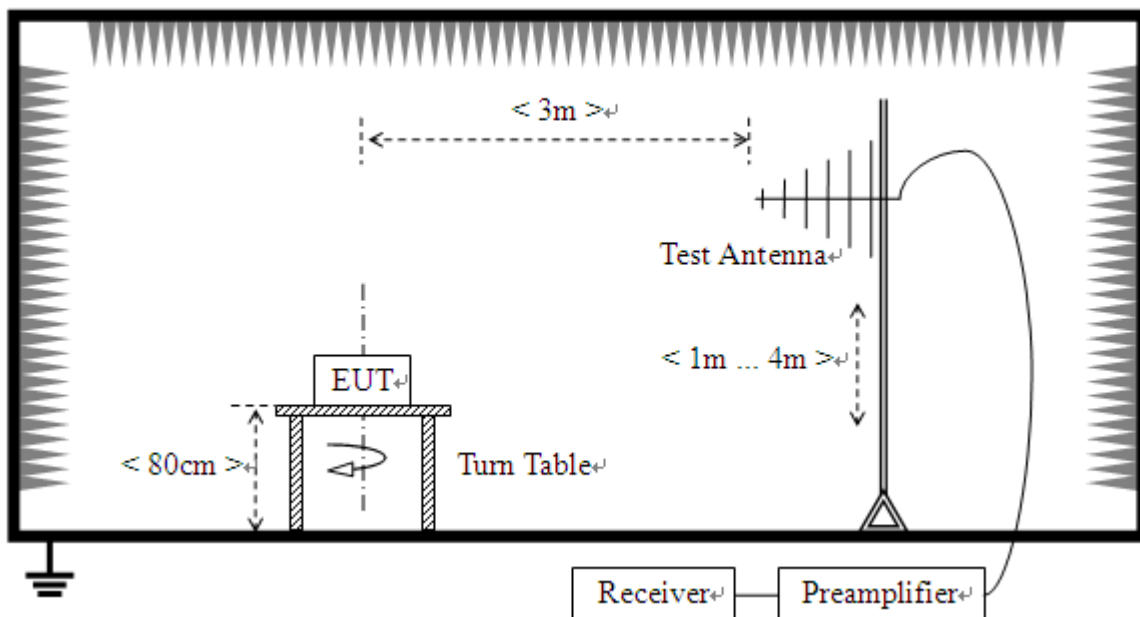
2.9.2. Test Description

Test Setup:

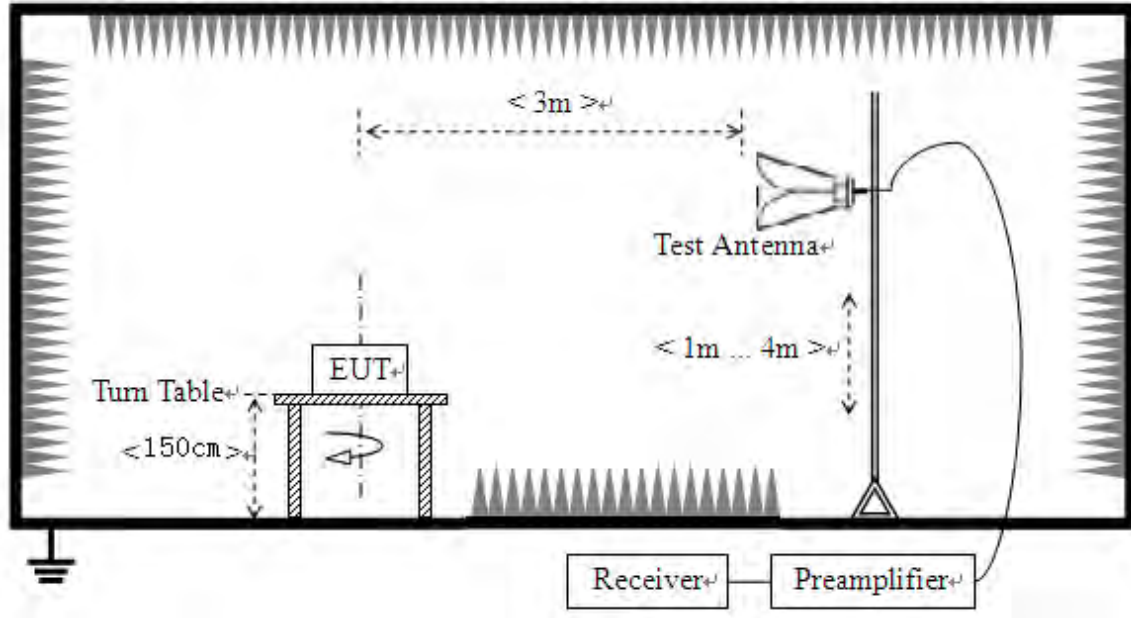
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.



2.9.3. Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

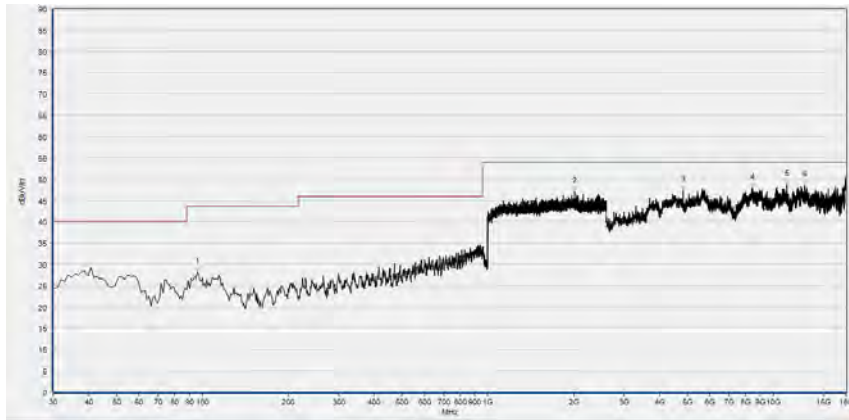
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

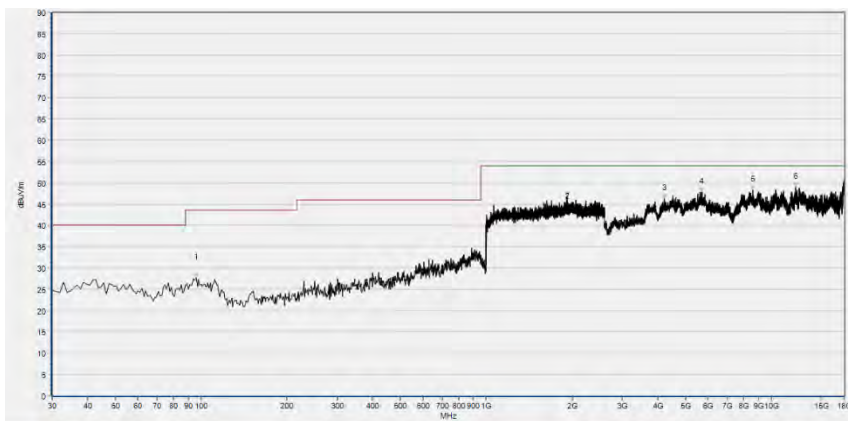
802.11b Mode

Plot for Channel 1



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
95.960	28.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2019.200	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4823.760	47.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8455.080	47.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11143.920	48.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12893.360	48.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

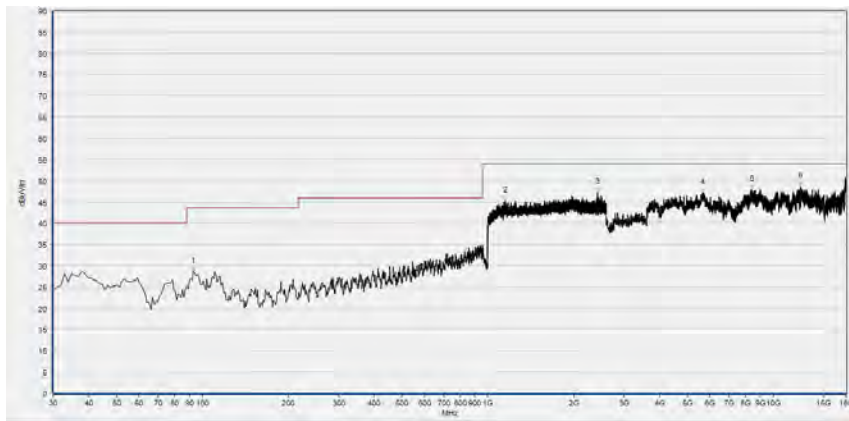
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
95.960	27.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1928.533	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4217.000	46.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5695.400	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8612.160	48.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12163.400	48.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

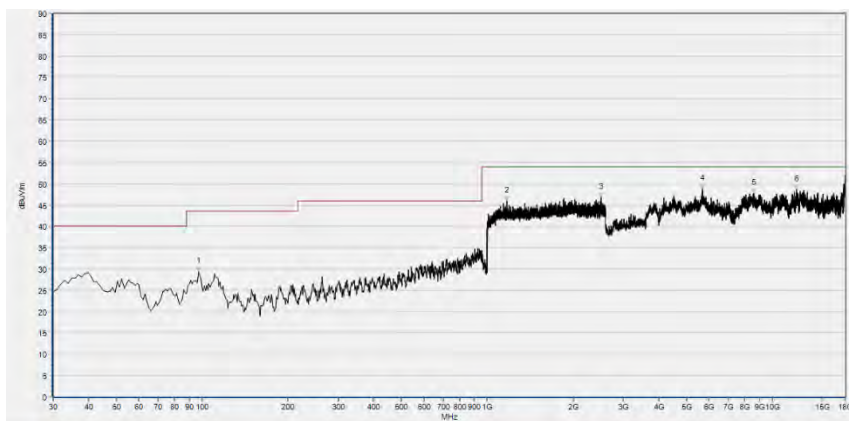
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
93.050	28.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1152.533	45.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2418.667	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.280	47.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12480.640	48.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

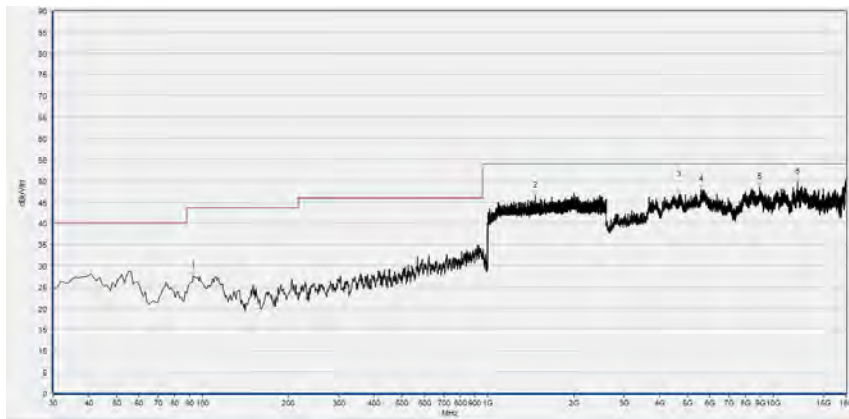
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
96.930	29.36	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1171.733	45.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2504.533	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5686.160	48.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8621.400	47.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12144.920	48.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

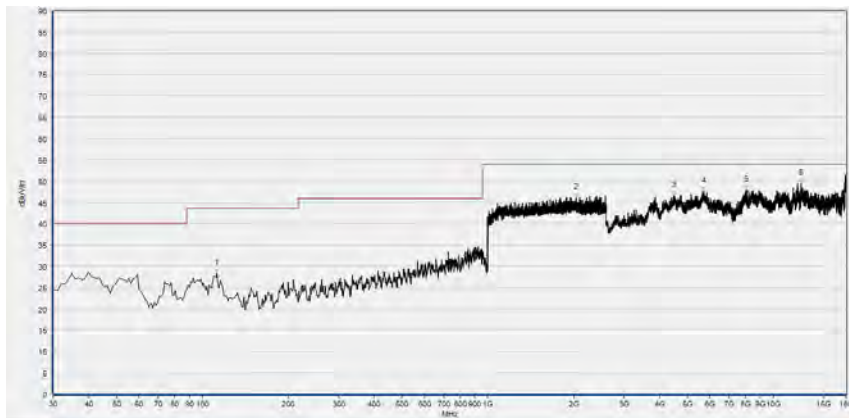
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
93.050	27.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1467.733	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4672.840	46.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5572.200	47.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8984.840	48.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12151.080	49.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

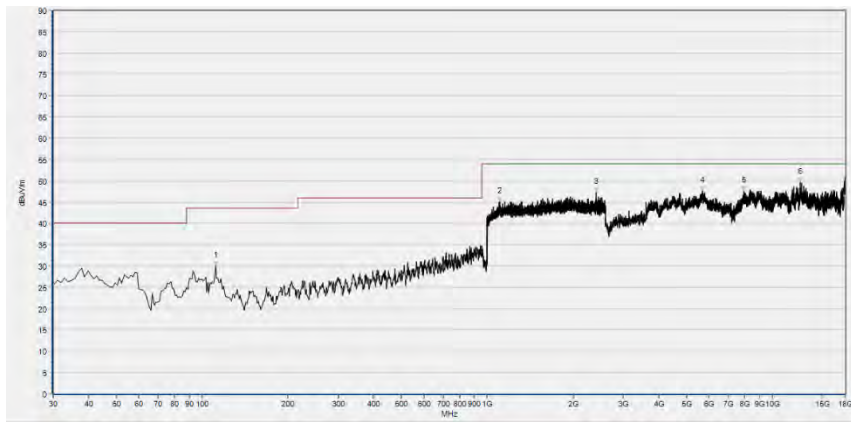


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
112.450	28.38	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2033.600	46.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4478.800	46.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5710.800	47.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8017.720	47.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12505.280	49.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

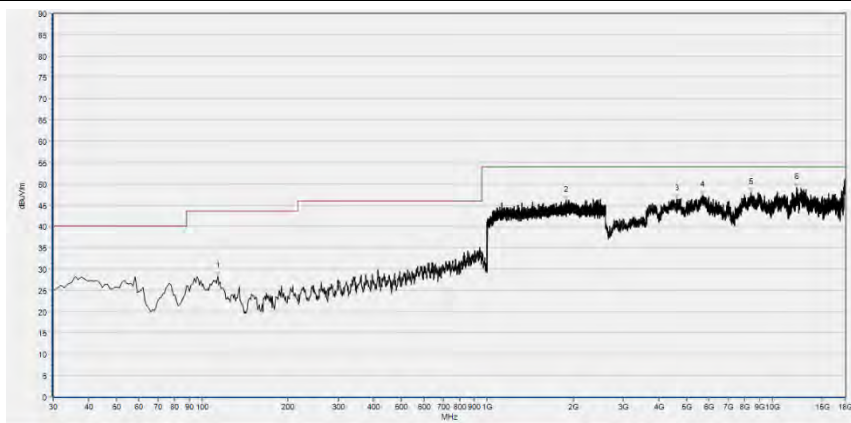
802.11g Mode

Plot for Channel 1



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
111.480	30.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1104.533	45.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2414.933	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5673.840	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7946.880	47.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12539.160	49.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

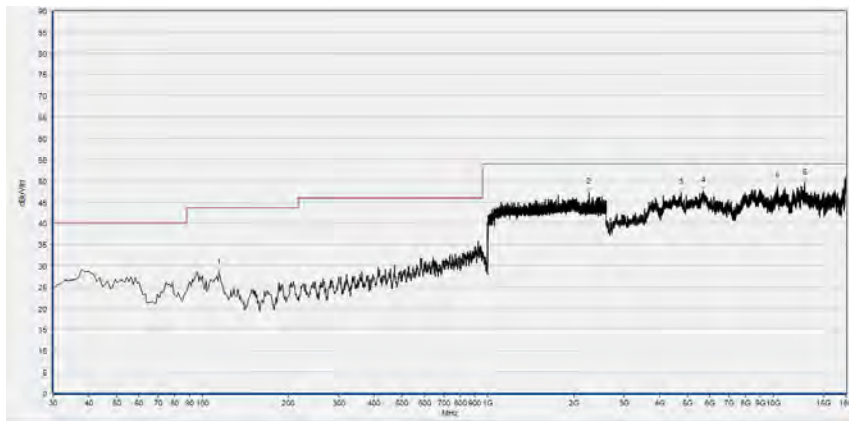
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
113.420	28.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1889.067	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4623.560	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5676.920	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8421.200	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12172.640	49.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

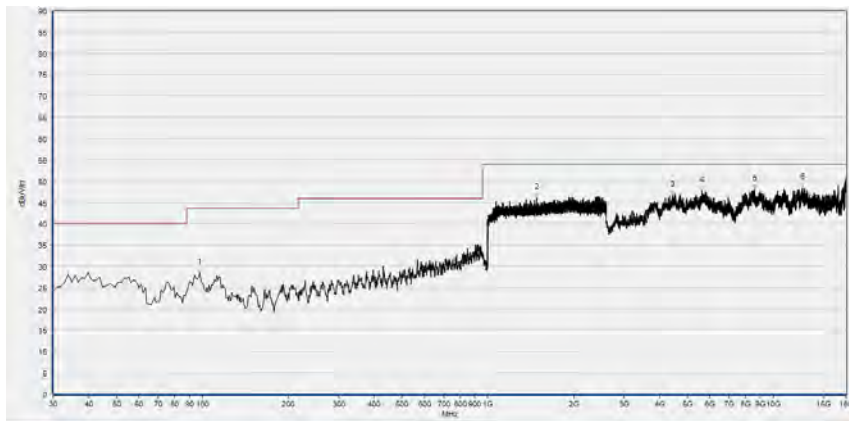
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.390	28.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2256.000	47.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4759.080	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5692.320	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10343.120	48.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12918.000	49.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

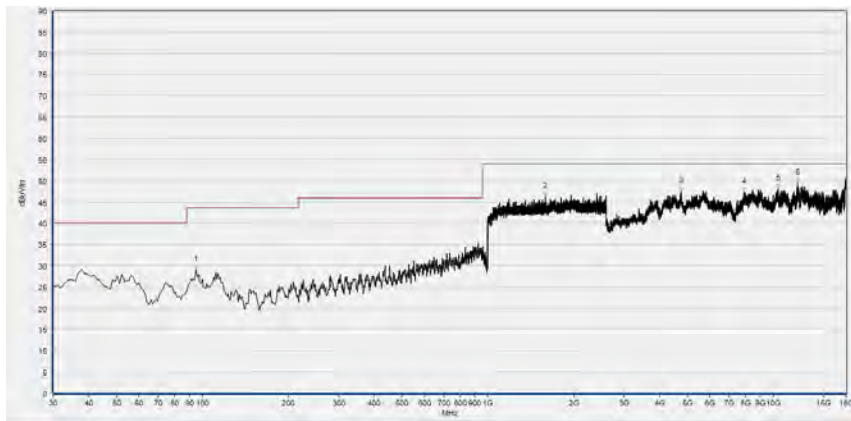
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
97.900	28.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1486.400	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4426.440	46.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5633.800	47.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8602.920	48.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12680.840	48.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

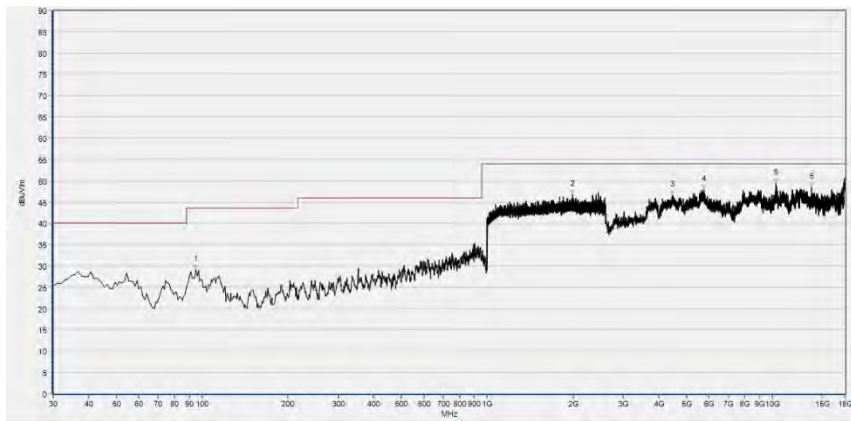
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
94.990	28.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1587.733	46.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4768.320	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7903.760	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10429.360	48.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12144.920	49.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

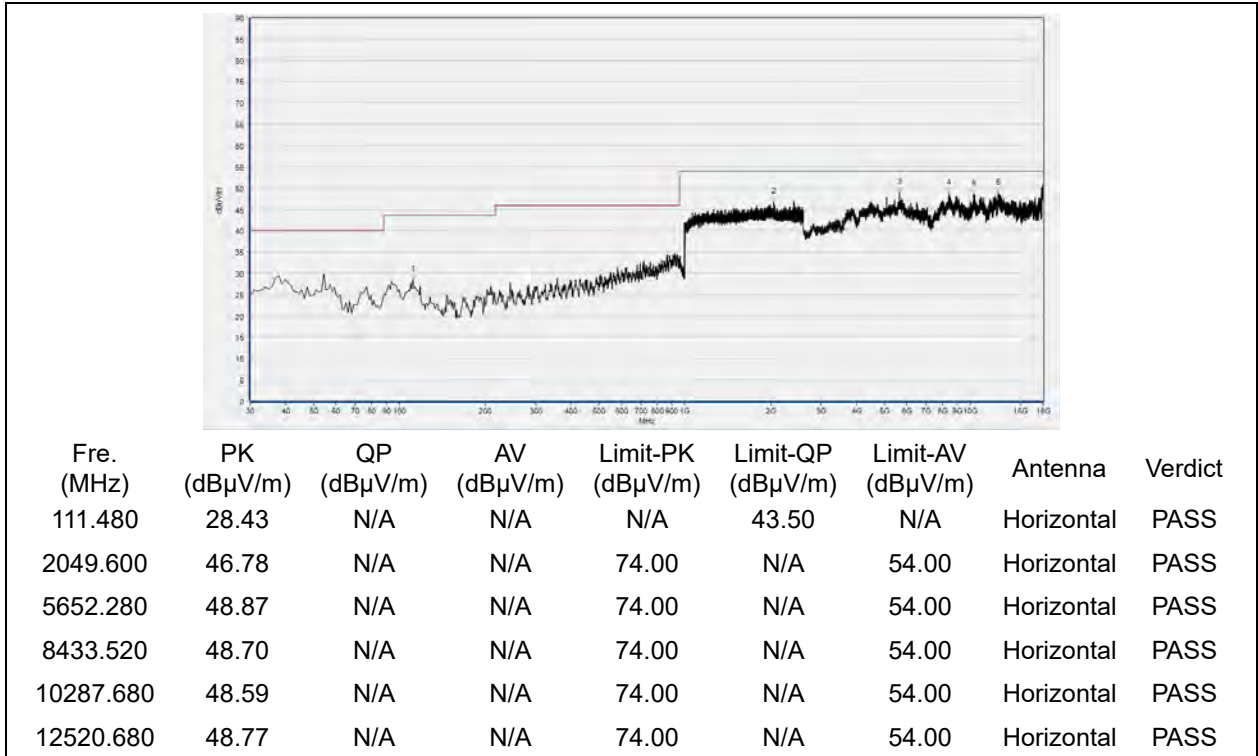


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
94.990	29.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1990.933	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4466.480	46.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5747.760	47.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10284.600	49.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13691.080	48.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

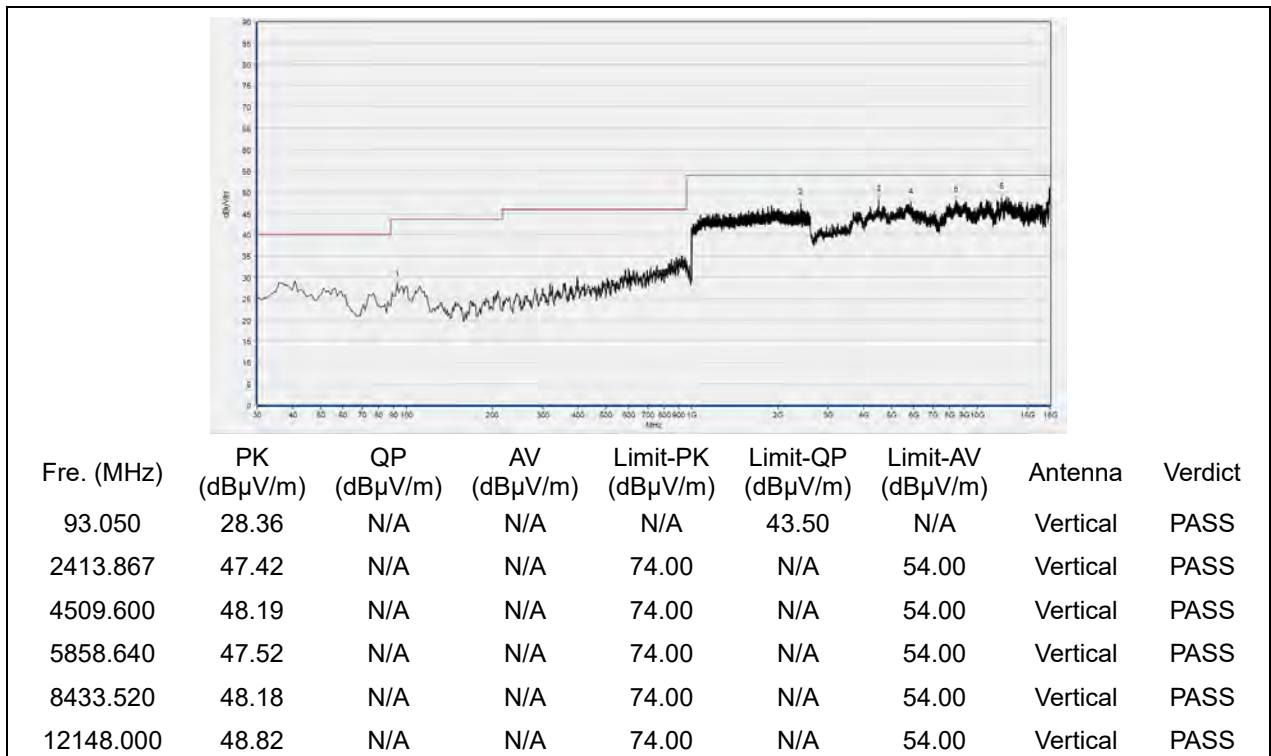
(Antenna Vertical, 30MHz to 18GHz)

802.11n (HT20) Mode

Plot for Channel 1

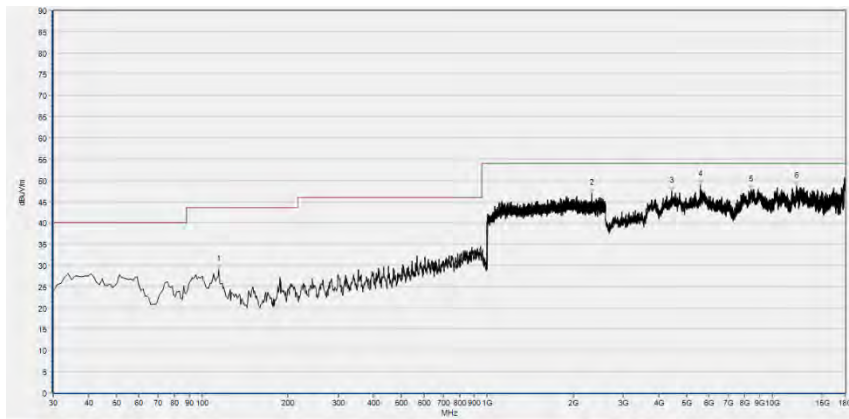


(Antenna Horizontal, 30MHz to 18GHz)



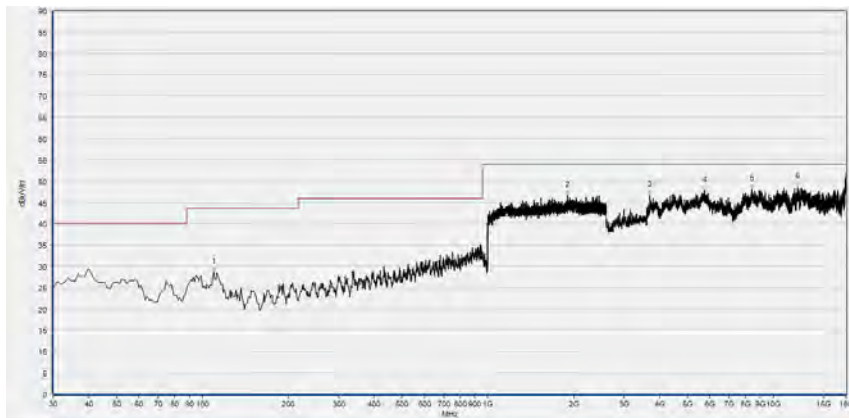
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
114.390	29.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2324.267	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4444.920	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5587.600	48.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8393.480	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12191.120	48.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

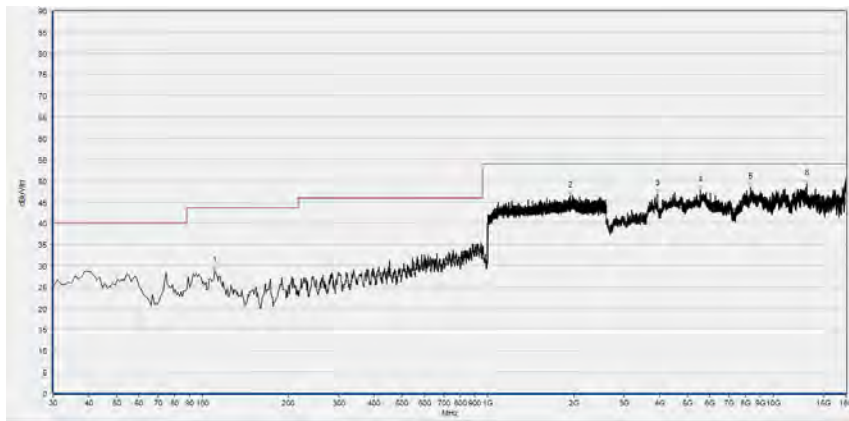
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.540	28.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1902.933	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3699.560	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5744.680	47.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8408.880	48.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12148.000	48.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

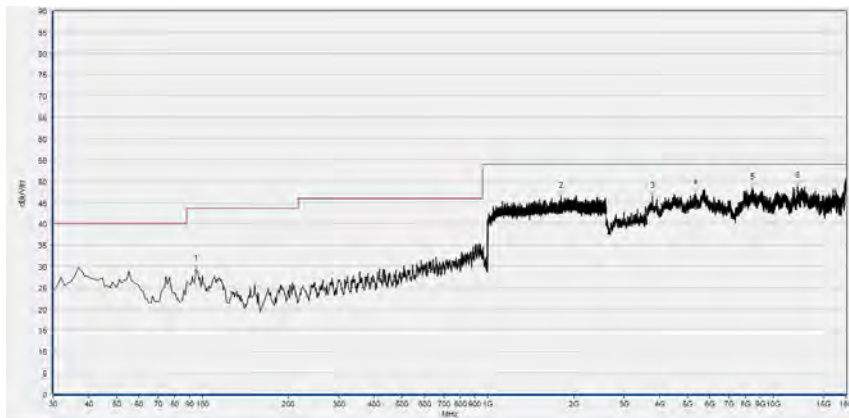
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	28.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1950.933	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3924.400	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5553.720	47.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8338.040	48.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13090.480	49.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
94.990	29.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1803.200	46.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3773.480	46.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5328.880	47.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8439.680	48.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12138.760	48.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Peak Output Power	$\pm 2.22\text{dB}$
Power Spectral Density	$\pm 2.22\text{dB}$
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	$\pm 2.77\text{dB}$
Restricted Frequency Bands	$\pm 5\%$
Radiated Emission	$\pm 2.95\text{dB}$
Conducted Emission	$\pm 2.44\text{dB}$

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



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Attenuator 1	(N/A.)	10dB	Resent	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2021.03.25	2022.03.24
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2021.10.21	2022.10.20
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Computer	T430i	Think Pad	Lenovo	N/A	N/A

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2021.03.09	2022.03.08
LISN	812744	NSLK 8127	Schwarzbeck	2021.03.09	2022.03.08
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2021.07.21	2022.07.20
Coaxial Cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
NOTEBOOK	DF2DR A01 DPC	VOSTRO 5370	DELL	N/A	N/A
ADAPTER	OKXTTW	LA45NM1 40	DELL	N/A	N/A

4.3 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.5.77.0418
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**4.4 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2021.07.16	2022.07.15
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.02.14	2022.02.13
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna – Horn	BBHA9170 #774	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25
Coaxial Cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L32 03	Tonscend	2021.07.16	2022.07.15
18-26.5GHz pre-Amplifier	46732	S10M100L38 02	Tonscend	2021.07.16	2022.07.15
26-40GHz pre-Amplifier	56774	S40M400L40 02	Tonscend	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	2021.07.16	2022.07.15
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

————— END OF REPORT —————