



RF TEST REPORT

Report No.: SET2022-06940

Product Name: METAVERTU 5G digital mobile phone

Model No.: VTL-202201

FCC ID: 2A6IQ-VTL202201

IC: 28629-VTL202201

Applicant: VERTU INTERNATIONAL CORPORATION LIMITED

Address: 25 St Thomas Street, Winchester, Hampshire, SO23 9HJ, United Kingdom

Dates of Testing: 05/09/2022 - 06/23/2022

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

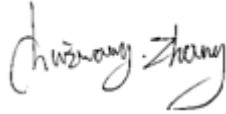
Tel: 86 755 26627338 **Fax:** 86 755 26627238

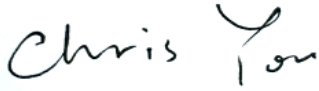
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Test Report

Product: METAVERTU 5G digital mobile phone
Brand Name.....: VERTU
Trade Name: VERTU
Applicant.....: VERTU INTERNATIONAL CORPORATION LIMITED
Applicant Address: 25 St Thomas Street, Winchester, Hampshire, SO23 9HJ, United Kingdom
Manufacturer: Chengdu Vertu Business and Service Management Co., Ltd.
Manufacturer Address: 1601,16th Floor, No. 1577 Middle Section of Tianfu Avenue, Chengdu High-tech Zone, China (Sichuan) Pilot Free Trade Zone
Test Standards: 47 CFR Part 15 Subpart C
ANSI C63.10-2013
RSS-Gen Issue 5, Feb 2021
RSS-247 Issue 2, Feb 2017
Test Result.....: Pass

Tested by:  2022.08.01
Chuiwang Zhang, Test Engineer

Reviewed by:  2022.08.01
Chris You, Senior Engineer

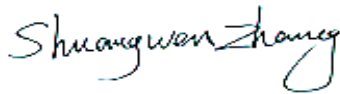
Approved by:  2022.08.01
Shuangwen Zhang, Manager

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Change History		
Issue	Date	Reason for change
1.0	2022.08.01	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	METAVERTU 5G digital mobile phone
Model No.	VTL-202201
Hardware Version	P10
Software Version	12.0.0_6.01.01.01
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n (HT20/HT40)/ax(HE20/HE40)
Frequency Range	802.11b/g/n/ax-20MHz: 2.412GHz - 2.462GHz 802.11n/ax-40MHz: 2.422GHz-2.452GHz
Channel Number	802.11b/g/n/ax-20MHz: 11 802.11n/ax-40MHz: 7
Transfer Rate	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 300Mbps (2×2MIMO) 802.11ax : up to 573.529Mbps (2×2MIMO)
Modulation Type	DSSS (802.11b), OFDM (802.11g/n), OFDMA (802.11ax)
Test Control Software	QRCT 4.0
Antenna Type	Internal Antenna
Antenna Gain	Antenna 9: -0.6dBi Antenna 7: -3.8dBi
Power supply	Rechargeable Li-ion Polymer Battery DC3.87V/4500mAh

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

Note 3: The antenna gain and RF adapter/cable insert loss provided by manufacture.

1.2. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC/IC certification standards:

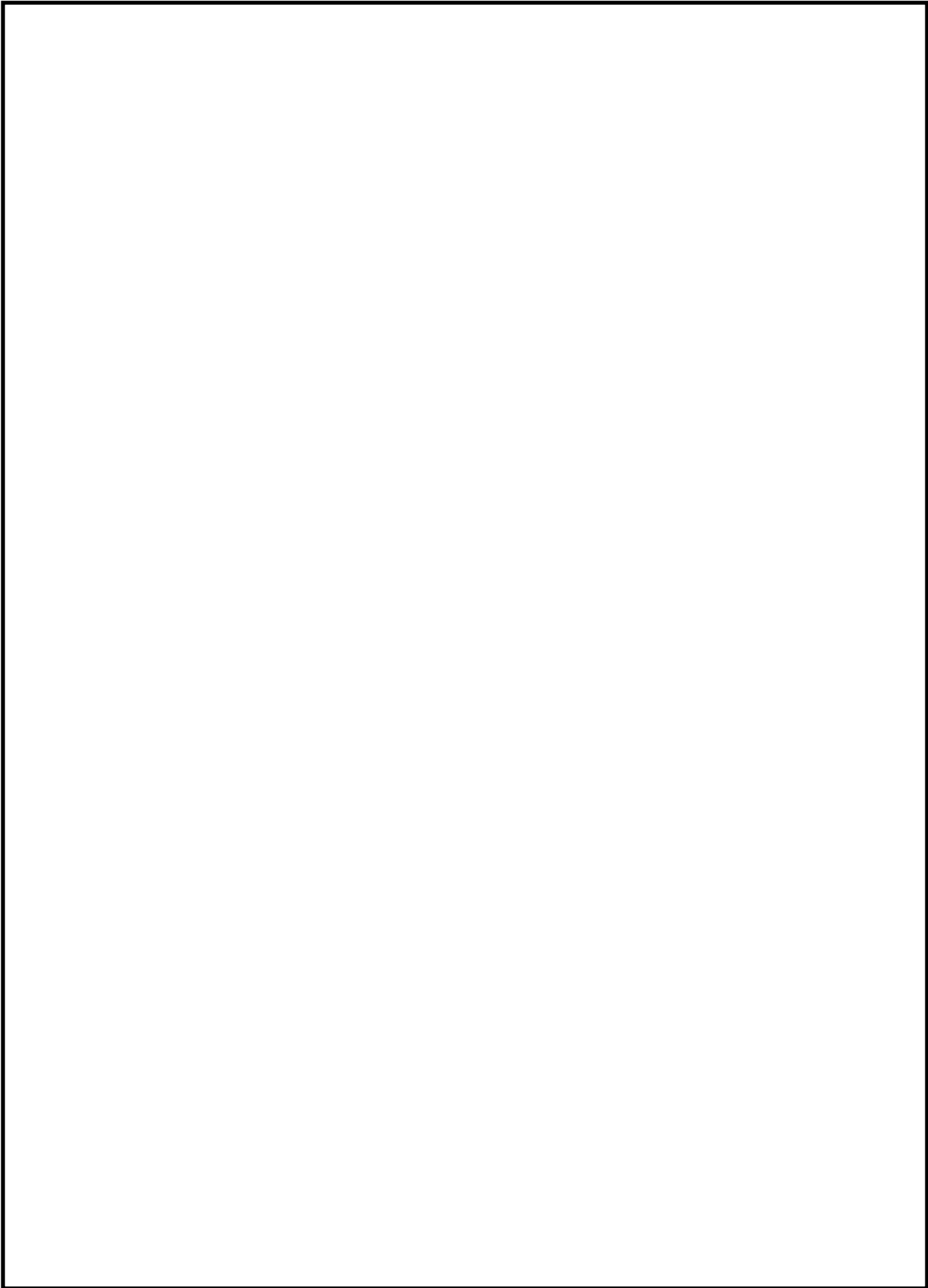
No.	Identity	Document Title
1	47 CFR Part 15 Subpart C	Radio Frequency Devices
2	KDB 558074 D01 15.247 Meas Guidance v05r02	Cuidance for Compliance Measurement on Digital Transmission Systems, Frequency Hopping Spread Spectrum Systems, and Hybrid System Devices Operating under Section 15.247 of the FCC Rules
3	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
5	RSS-Gen Issue 5, Feb 2021	General Requirements for Compliance of Radio Apparatus
6	RSS-247 Issue 2, Feb 2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

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

No.	Section in CFR 47	IC Rules	Description	Result
1	15.203 15.247(c)	RSS-GEN, 6.8 RSS-247, 5.4(f)	Antenna Requirement	PASS
2	15.247(b)(3)	RSS-247, 5.4(d)	Peak Conducted Output Power	PASS
3	15.247(a)(2)	RSS-GEN, 6.7 RSS-247, 5.2(a)	6dB and 99% Bandwidth	PASS
4	15.247(d)	RSS-GEN, 6.13 RSS-247, 5.5	Conducted Band Edges and Spurious Emission	PASS
5	15.247(e)	RSS-247, 5.2(b)	Power spectral density (PSD)	PASS
6	15.207	RSS-GEN, 8.8	AC Power Line Conducted Emission	PASS
7	15.209 15.205 15.247(d)	RSS-GEN, 8.9 RSS-GEN, 8.10 RSS-247, 5.5	Radiated Band Edges and Spurious Emission	PASS

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB 558074 D01 15.247 Meas Guidance v05r02.



1.3. Channel List

For 20MHz bandwidth systems, use Channel 1~ Channel 11.

Channel No.	Frequency	Channel No.	Frequency	Channel No.	Frequency
1	2412MHz	5	2432MHz	9	2452MHz
2	2417MHz	6	2437MHz	10	2457MHz
3	2422MHz	7	2442MHz	11	2462MHz
4	2427MHz	8	2447MHz		

Note: Channel 1, 6 & 11 selected for 802.11b/g/n-HT20/ax-HE20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40/ax-HE40 as Lowest, Middle and Highest Channel.

1.4. Test environment and mode

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

Operating Environment	
Temperature	15 °C - 35 °C
Humidity	30% -60%
Atmospheric Pressure	86KPa-106KPa
Test mode:	
Continuously transmitting mode	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO, duty cycle factor is not required.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Peak Conducted Output Power Power Spectral Density 6dB and 99% Bandwidth Conducted Spurious Emission Radiated Spurious Emission	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n-HT20/ax-HE20/OFDM	MCS 0	1/6/11
	11n-HT40/ax-HE40/OFDM	MCS 0	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n-HT20/ax-HE20/OFDM	MCS 0	1/11
	11n-HT40/ax-HE40/OFDM	MCS 0	3/6/9

1.5. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Laptop	HP	TPN-Q221	HP	5CD14347QB	FCC DOC

1.6. EUT Operation Test Setup

For RF test items, an engineering test program was provided and enable to make EUT transmitting.

1.7. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing 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 Number: CN1283, valid time is until April 19th, 2023.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun. 30th, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

2. Test 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.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to RSSGEN 6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Operating frequency range	Ant. Type	Number of antennas	Ant. Gain
1	METAVERTU 5G digital mobile phone	2412-2462MHz	Internal	2	Antenna 9: -0.6dBi Antenna 7: -3.8dBi

2.1.3. Result: comply

The EUT has two permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Maximum Conducted Output Power

2.2.1. Limit of Maximum Conducted Output Power

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.9.1.3.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Record the measurement results in the test report.

2.2.5. Test Result of Maximum Conducted Output Power

Please refer to Appendix A for detail.

2.3. 6dB and 99% Bandwidth

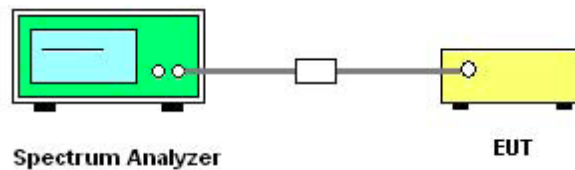
2.3.1. Limit of 6dB Bandwidth

The minimum 6 dB Occupied bandwidth shall be at least 500 kHz.

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.8 and 6.9.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the spectrum analyzer “Channel Bandwidth” function to easurement the 6dB EBW and 99% OBW.
5. For 6dB EBW Use the following spectrum analyzer settings:
RBW: 100kHz / VBW: 300kHz / Detector: Peak / Trace mode: Max hold / Sweep time: Auto couple / Allow trace to fully stabilize.
6. For 99% OBW Use the following spectrum analyzer settings:
Set RBW = approximately 1% EBW or 1.5 times to 5.0 times the OBW, $VBW \geq 3 \times RBW$.
7. Record the measurement results in the test report.



2.3.5. Test Results of 6dB and 99% Bandwidth

Please refer to Appendix A for detail.

2.4. Power spectral density (PSD)

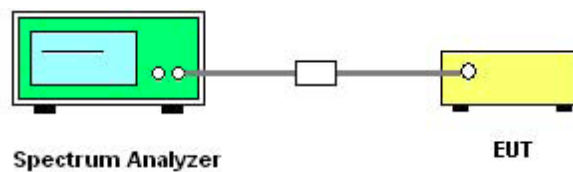
2.4.1. Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



2.4.4. Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.10.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings:
Set instrument center frequency to DTS channel center frequency / Set the span to 1.5 times the DTS bandwidth / RBW: 3kHz / VBW: 10kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum power level.
5. Record the measurement results in the test report.

2.4.5. Test Results of Power Spectral Density

Please refer to Appendix A for detail.

2.5. Conducted Band Edges and Spurious Emissions

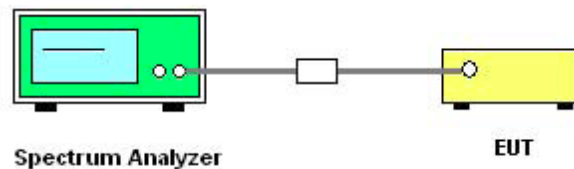
2.5.1. Limit of Conducted Band Edges and Spurious Emissions

In any 100 kHz bandwidth outside the frequency band in which the 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.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.11 and 11.13.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings:

Reference level measurement: Set spectrum analyzer center frequency to DTS channel center frequency / Set the span to ≥ 1.5 times the DTS bandwidth / RBW: 100kHz / VBW: 300kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum PSD level and attenuate it by 20dB.

Emission level measurement: Set the center frequency and span to encompass frequency range to be measured / RBW: 100kHz / VBW: 300kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum amplitude level.

6. Record the measurement results in the test report.



2.5.5. Test Results of Conducted Band Edges and Spurious Emissions

Please refer to Appendix A for detail.

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the 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. If the transmitter uses an RMS average conducted power limit, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

§15.209(a) Radiated emission limits:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	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

Restricted bands of operation refer to §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41	/	/	/

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

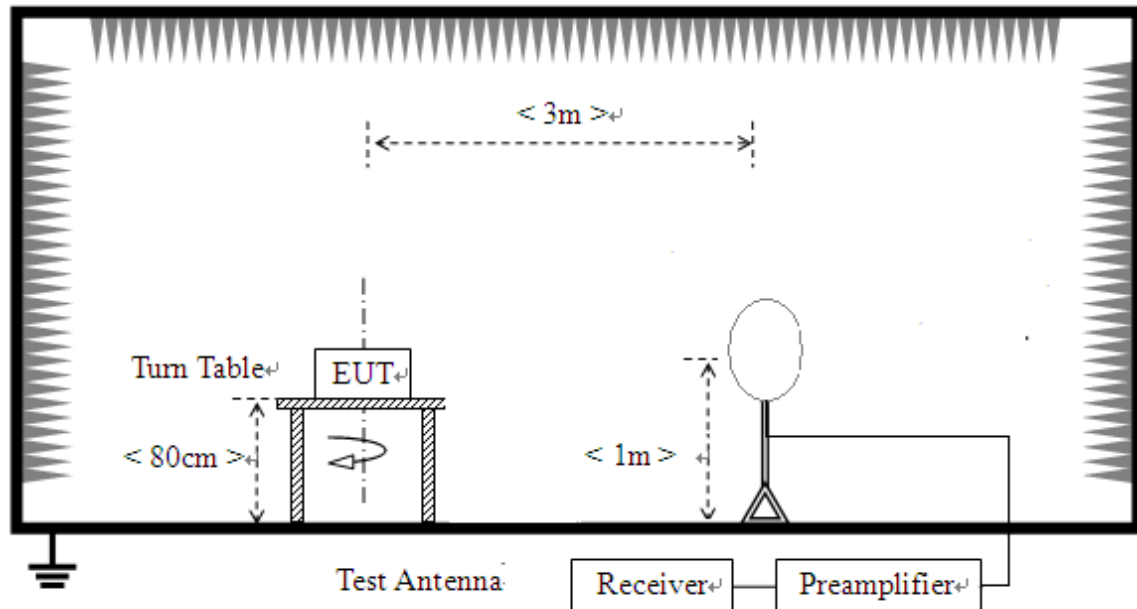
²Above 38.6.

2.6.2. Measuring Instruments

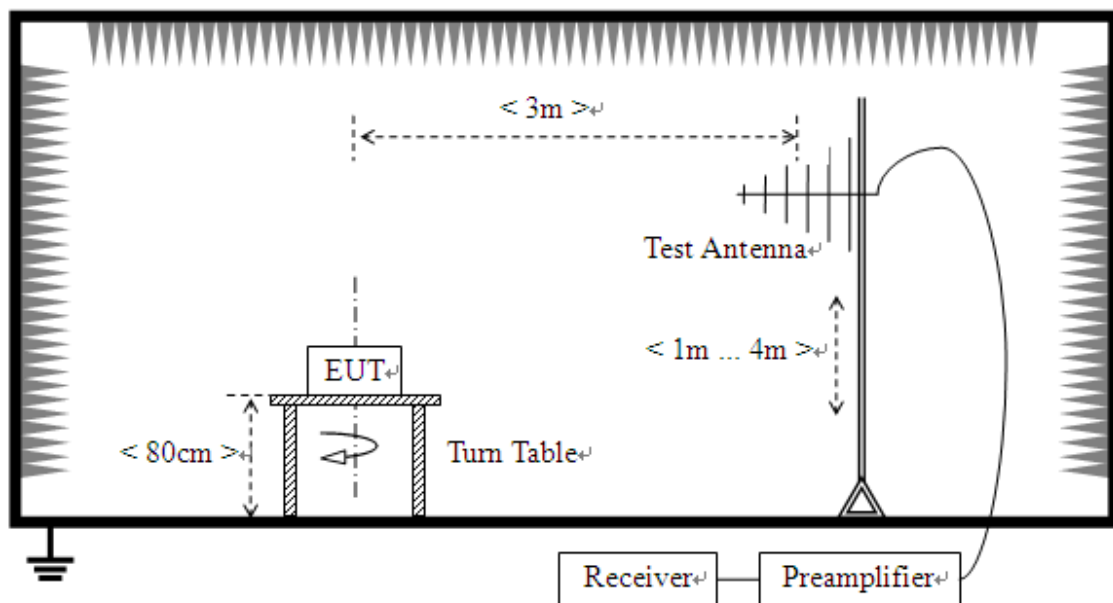
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

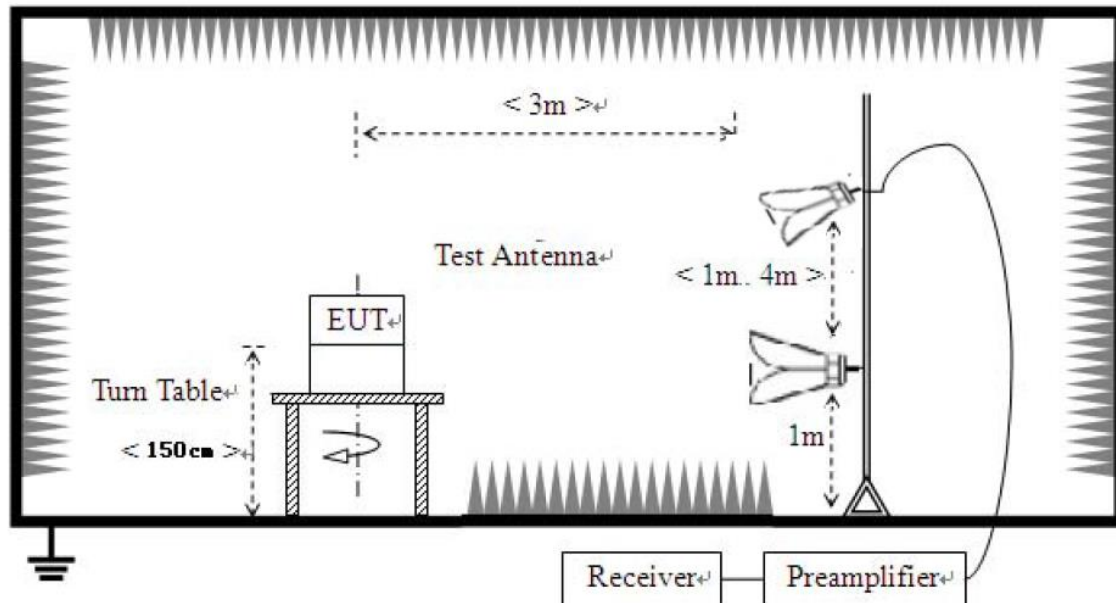
For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8m for below 1GHz and 1.5m for above 1GHz above the ground at a 3 meters semi-anechoic chamber.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then

reported in a data sheet.

7. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. 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.

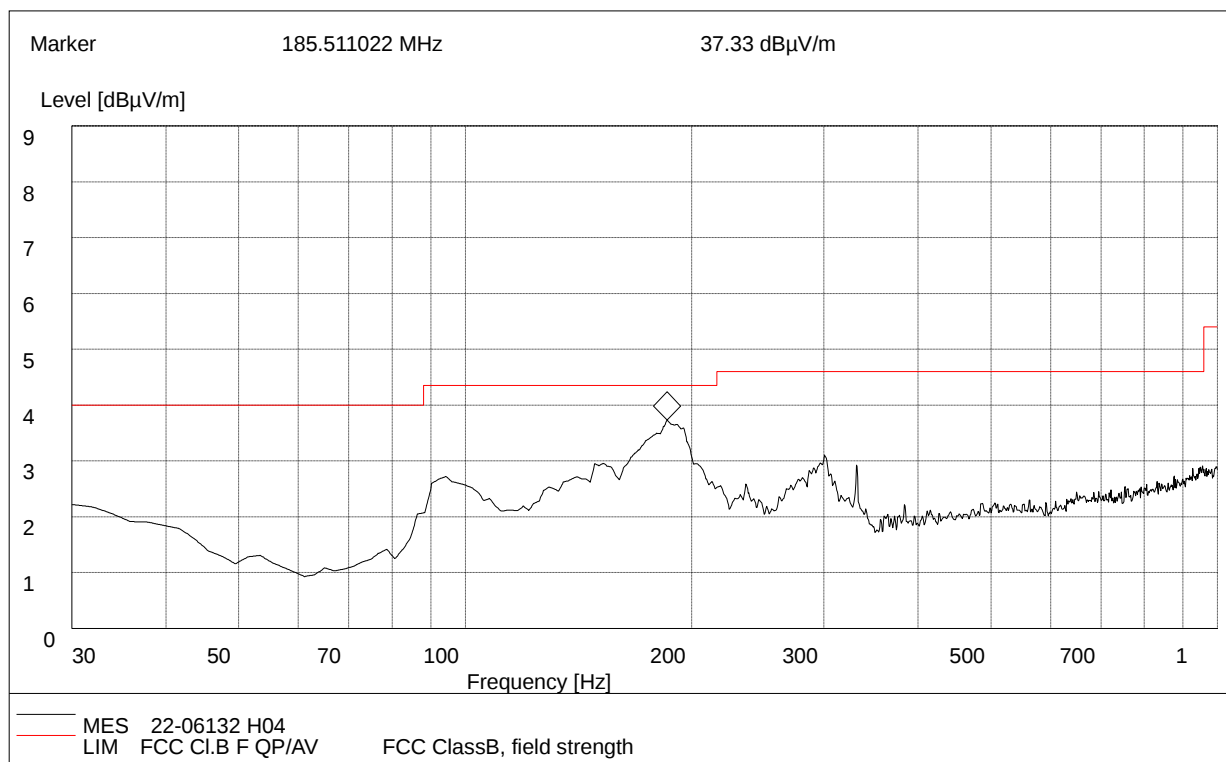
2.6.5. Test Results of Radiated Band Edge and Spurious Emission

NOTE 1: For 9 kHz to 30MHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

NOTE 2: For 30MHz to 1GHz, All of the EUT Configure mode were tested and found 802.11b 2437MHz channel is the worst mode, the worst case is recorded in this report.

NOTE 3: Antenna height and turntable angle are the worst positions, the worst case is recorded in this report.

For 30MHz to 1000MHz

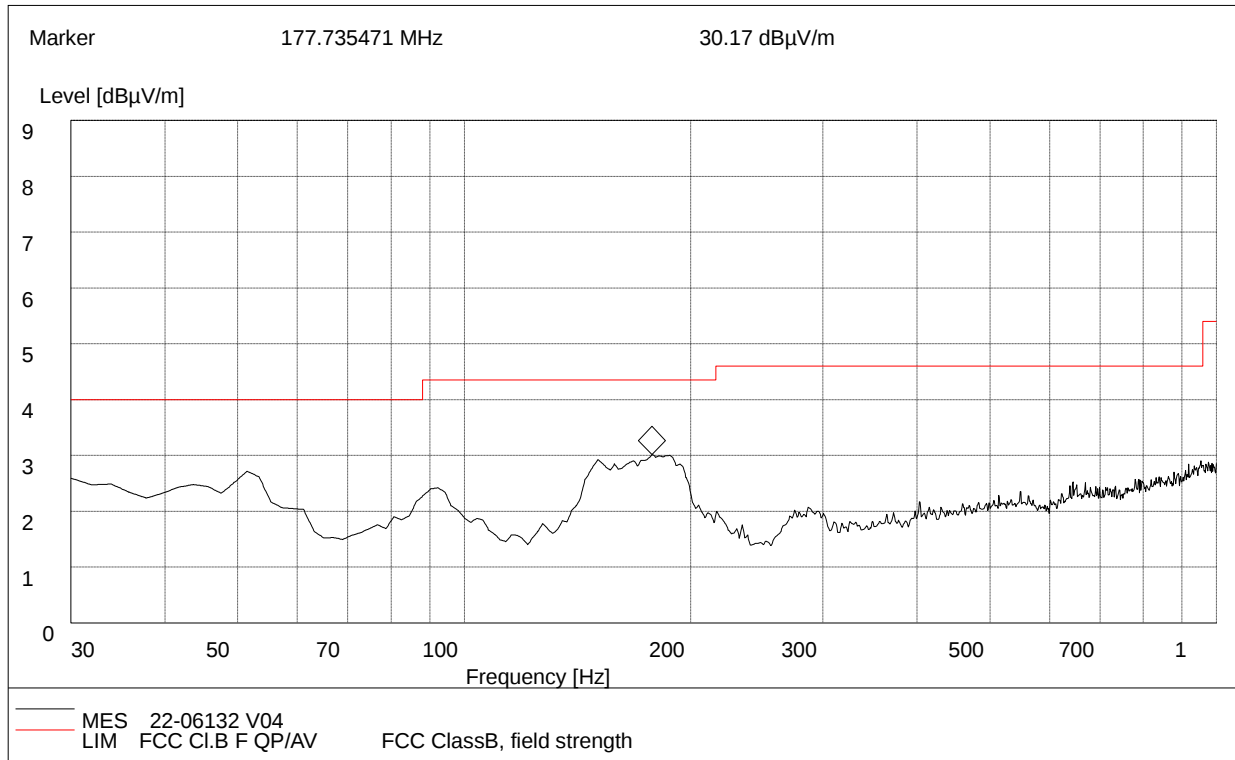


Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Polarity
30.000000	20.33	120.000	19.3	100.0	40.0	19.67	Horizontal
94.140000	24.06	120.000	9.9	100.0	43.5	19.44	Horizontal
140.800000	24.68	120.000	12.6	100.0	43.5	18.82	Horizontal
152.440000	25.39	120.000	12.4	100.0	43.5	18.11	Horizontal
185.510000	35.38	120.000	11.0	100.0	43.5	8.12	Horizontal
300.200000	29.35	120.000	15.7	100.0	46.0	16.65	Horizontal

Test Result : Pass

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The other emission levels were very low against the limit.



Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Polarity
30.000000	23.52	120.000	19.3	100.0	40.0	16.48	Vertical
43.600000	21.35	120.000	14.0	100.0	40.0	18.65	Vertical
51.380000	25.30	120.000	8.6	100.0	40.0	14.70	Vertical
92.200000	21.96	120.000	9.9	100.0	43.5	21.54	Vertical
152.520000	28.20	120.000	12.4	100.0	43.5	15.30	Vertical
177.730000	28.92	120.000	11.9	100.0	43.5	14.58	Vertical

Test Result : Pass

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The other emission levels were very low against the limit.

For 1GHz to 25GHz

2.4G Wi-Fi 802.11b_2412MHz - Ant9									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	45.52	74.00	-28.48	1.60	200	44.22	1.30	Horizontal	Peak
2390.00	37.22	54.00	-16.78	1.60	200	35.92	1.30	Horizontal	Average
4824.00	47.45	74.00	-26.55	1.60	200	41.05	6.40	Horizontal	Peak
4824.00	39.30	54.00	-14.70	1.60	200	32.90	6.40	Horizontal	Average
7236.00	50.85	74.00	-23.15	1.60	200	40.35	10.50	Horizontal	Peak
7236.00	41.57	54.00	-12.43	1.60	200	31.07	10.50	Horizontal	Average
2390.00	46.77	74.00	-27.23	1.70	180	45.47	1.30	Vertical	Peak
2390.00	38.69	54.00	-15.31	1.70	180	37.39	1.30	Vertical	Average
4824.00	50.32	74.00	-23.68	1.70	180	43.92	6.40	Vertical	Peak
4824.00	44.34	54.00	-9.66	1.70	180	37.94	6.40	Vertical	Average
7236.00	51.17	74.00	-22.83	1.70	180	40.67	10.50	Vertical	Peak
7236.00	41.99	54.00	-12.01	1.70	180	31.49	10.50	Vertical	Average
2.4G Wi-Fi 802.11b_2437MHz - Ant9									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.53	74.00	-26.47	1.60	200	41.73	5.80	Horizontal	Peak
4874.00	39.61	54.00	-14.39	1.60	200	33.81	5.80	Horizontal	Average
7311.00	51.02	74.00	-22.98	1.60	200	40.22	10.80	Horizontal	Peak
7311.00	41.45	54.00	-12.55	1.60	200	30.65	10.80	Horizontal	Average
4874.00	50.09	74.00	-23.91	1.70	180	44.29	5.80	Vertical	Peak
4874.00	44.00	54.00	-10.00	1.70	180	38.20	5.80	Vertical	Average
7311.00	51.40	74.00	-22.60	1.70	180	40.60	10.80	Vertical	Peak
7311.00	41.75	54.00	-12.25	1.70	180	30.95	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11b_2462MHz - Ant9									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	45.63	74.00	-28.37	1.60	200	44.03	1.60	Horizontal	Peak
2483.50	35.67	54.00	-18.33	1.60	200	34.07	1.60	Horizontal	Average
4924.00	49.21	74.00	-24.79	1.60	200	43.51	5.70	Horizontal	Peak
4924.00	41.69	54.00	-12.31	1.60	200	35.99	5.70	Horizontal	Average
7386.00	50.53	74.00	-23.47	1.60	200	39.73	10.80	Horizontal	Peak
7386.00	41.37	54.00	-12.63	1.60	200	30.57	10.80	Horizontal	Average
2483.50	45.35	74.00	-28.65	1.70	180	43.75	1.60	Vertical	Peak
2483.50	35.51	54.00	-18.49	1.70	180	33.91	1.60	Vertical	Average
4924.00	46.78	74.00	-27.22	1.70	180	41.08	5.70	Vertical	Peak
4924.00	38.26	54.00	-15.74	1.70	180	32.56	5.70	Vertical	Average
7386.00	51.07	74.00	-22.93	1.70	180	40.27	10.80	Vertical	Peak
7386.00	41.93	54.00	-12.07	1.70	180	31.13	10.80	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11g_2412MHz - Ant9									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	45.38	74.00	-28.62	1.60	200	44.08	1.30	Horizontal	Peak
2390.00	37.44	54.00	-16.56	1.60	200	36.14	1.30	Horizontal	Average
4824.00	47.63	74.00	-26.37	1.60	200	41.23	6.40	Horizontal	Peak
4824.00	39.55	54.00	-14.45	1.60	200	33.15	6.40	Horizontal	Average
7236.00	50.43	74.00	-23.57	1.60	200	39.93	10.50	Horizontal	Peak
7236.00	41.41	54.00	-12.59	1.60	200	30.91	10.50	Horizontal	Average
2390.00	47.06	74.00	-26.94	1.70	180	45.76	1.30	Vertical	Peak
2390.00	38.85	54.00	-15.15	1.70	180	37.55	1.30	Vertical	Average
4824.00	50.58	74.00	-23.42	1.70	180	44.18	6.40	Vertical	Peak
4824.00	44.54	54.00	-9.46	1.70	180	38.14	6.40	Vertical	Average
7236.00	51.33	74.00	-22.67	1.70	180	40.83	10.50	Vertical	Peak
7236.00	42.07	54.00	-11.93	1.70	180	31.57	10.50	Vertical	Average
2.4G Wi-Fi 802.11g_2437MHz - Ant9									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.92	74.00	-26.08	1.60	200	42.12	5.80	Horizontal	Peak
4874.00	39.99	54.00	-14.01	1.60	200	34.19	5.80	Horizontal	Average
7311.00	51.49	74.00	-22.51	1.60	200	40.69	10.80	Horizontal	Peak
7311.00	41.64	54.00	-12.36	1.60	200	30.84	10.80	Horizontal	Average
4874.00	50.42	74.00	-23.58	1.70	180	44.62	5.80	Vertical	Peak
4874.00	44.46	54.00	-9.54	1.70	180	38.66	5.80	Vertical	Average
7311.00	51.76	74.00	-22.24	1.70	180	40.96	10.80	Vertical	Peak
7311.00	41.62	54.00	-12.38	1.70	180	30.82	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11g_2462MHz - Ant9									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	45.51	74.00	-28.49	1.60	200	43.91	1.60	Horizontal	Peak
2483.50	35.66	54.00	-18.34	1.60	200	34.06	1.60	Horizontal	Average
4924.00	49.53	74.00	-24.47	1.60	200	43.83	5.70	Horizontal	Peak
4924.00	41.76	54.00	-12.24	1.60	200	36.06	5.70	Horizontal	Average
7386.00	50.10	74.00	-23.90	1.60	200	39.30	10.80	Horizontal	Peak
7386.00	41.52	54.00	-12.48	1.60	200	30.72	10.80	Horizontal	Average
2483.50	45.32	74.00	-28.68	1.70	180	43.72	1.60	Vertical	Peak
2483.50	35.03	54.00	-18.97	1.70	180	33.43	1.60	Vertical	Average
4924.00	47.13	74.00	-26.87	1.70	180	41.43	5.70	Vertical	Peak
4924.00	38.59	54.00	-15.41	1.70	180	32.89	5.70	Vertical	Average
7386.00	51.47	74.00	-22.53	1.70	180	40.67	10.80	Vertical	Peak
7386.00	42.42	54.00	-11.58	1.70	180	31.62	10.80	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11b_2412MHz - Ant7									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	45.63	74.00	-28.37	1.50	180	44.33	1.30	Horizontal	Peak
2390.00	37.34	54.00	-16.66	1.50	180	36.04	1.30	Horizontal	Average
4824.00	47.32	74.00	-26.68	1.50	180	40.92	6.40	Horizontal	Peak
4824.00	40.20	54.00	-13.80	1.50	180	33.80	6.40	Horizontal	Average
7236.00	50.67	74.00	-23.33	1.50	180	40.17	10.50	Horizontal	Peak
7236.00	41.29	54.00	-12.71	1.50	180	30.79	10.50	Horizontal	Average
2390.00	46.53	74.00	-27.47	1.60	100	45.23	1.30	Vertical	Peak
2390.00	38.14	54.00	-15.86	1.60	100	36.84	1.30	Vertical	Average
4824.00	50.33	74.00	-23.67	1.60	100	43.93	6.40	Vertical	Peak
4824.00	44.87	54.00	-9.13	1.60	100	38.47	6.40	Vertical	Average
7236.00	51.58	74.00	-22.42	1.60	100	41.08	10.50	Vertical	Peak
7236.00	41.37	54.00	-12.63	1.60	100	30.87	10.50	Vertical	Average
2.4G Wi-Fi 802.11b_2437MHz - Ant7									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.11	74.00	-26.89	1.50	180	41.31	5.80	Horizontal	Peak
4874.00	39.97	54.00	-14.03	1.50	180	34.17	5.80	Horizontal	Average
7311.00	50.53	74.00	-23.47	1.50	180	39.73	10.80	Horizontal	Peak
7311.00	41.34	54.00	-12.66	1.50	180	30.54	10.80	Horizontal	Average
4874.00	50.51	74.00	-23.49	1.60	100	44.71	5.80	Vertical	Peak
4874.00	44.93	54.00	-9.07	1.60	100	39.13	5.80	Vertical	Average
7311.00	51.22	74.00	-22.78	1.60	100	40.42	10.80	Vertical	Peak
7311.00	41.27	54.00	-12.73	1.60	100	30.47	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11b_2462MHz - Ant7									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	45.89	74.00	-28.11	1.50	180	44.29	1.60	Horizontal	Peak
2483.50	35.24	54.00	-18.76	1.50	180	33.64	1.60	Horizontal	Average
4924.00	50.33	74.00	-23.67	1.50	180	44.63	5.70	Horizontal	Peak
4924.00	41.28	54.00	-12.72	1.50	180	35.58	5.70	Horizontal	Average
7386.00	50.58	74.00	-23.42	1.50	180	39.78	10.80	Horizontal	Peak
7386.00	41.54	54.00	-12.46	1.50	180	30.74	10.80	Horizontal	Average
2483.50	45.26	74.00	-28.74	1.60	100	43.66	1.60	Vertical	Peak
2483.50	35.62	54.00	-18.38	1.60	100	34.02	1.60	Vertical	Average
4924.00	47.88	74.00	-26.12	1.60	100	42.18	5.70	Vertical	Peak
4924.00	38.63	54.00	-15.37	1.60	100	32.93	5.70	Vertical	Average
7386.00	50.98	74.00	-23.02	1.60	100	40.18	10.80	Vertical	Peak
7386.00	41.55	54.00	-12.45	1.60	100	30.75	10.80	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11g_2412MHz - Ant7									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	45.34	74.00	-28.66	1.50	180	44.04	1.30	Horizontal	Peak
2390.00	37.03	54.00	-16.97	1.50	180	35.73	1.30	Horizontal	Average
4824.00	47.10	74.00	-26.90	1.50	180	40.70	6.40	Horizontal	Peak
4824.00	40.19	54.00	-13.81	1.50	180	33.79	6.40	Horizontal	Average
7236.00	50.79	74.00	-23.21	1.50	180	40.29	10.50	Horizontal	Peak
7236.00	41.29	54.00	-12.71	1.50	180	30.79	10.50	Horizontal	Average
2390.00	46.11	74.00	-27.89	1.60	100	44.81	1.30	Vertical	Peak
2390.00	37.98	54.00	-16.02	1.60	100	36.68	1.30	Vertical	Average
4824.00	50.17	74.00	-23.83	1.60	100	43.77	6.40	Vertical	Peak
4824.00	44.56	54.00	-9.44	1.60	100	38.16	6.40	Vertical	Average
7236.00	51.82	74.00	-22.18	1.60	100	41.32	10.50	Vertical	Peak
7236.00	41.66	54.00	-12.34	1.60	100	31.16	10.50	Vertical	Average
2.4G Wi-Fi 802.11g_2437MHz - Ant7									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.29	74.00	-26.71	1.50	180	41.49	5.80	Horizontal	Peak
4874.00	39.43	54.00	-14.57	1.50	180	33.63	5.80	Horizontal	Average
7311.00	50.75	74.00	-23.25	1.50	180	39.95	10.80	Horizontal	Peak
7311.00	41.07	54.00	-12.93	1.50	180	30.27	10.80	Horizontal	Average
4874.00	50.14	74.00	-23.86	1.60	100	44.34	5.80	Vertical	Peak
4874.00	44.78	54.00	-9.22	1.60	100	38.98	5.80	Vertical	Average
7311.00	50.69	74.00	-23.31	1.60	100	39.89	10.80	Vertical	Peak
7311.00	40.91	54.00	-13.09	1.60	100	30.11	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11g_2462MHz - Ant7									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.09	74.00	-27.91	1.50	180	44.49	1.60	Horizontal	Peak
2483.50	35.69	54.00	-18.31	1.50	180	34.09	1.60	Horizontal	Average
4924.00	49.99	74.00	-24.01	1.50	180	44.29	5.70	Horizontal	Peak
4924.00	41.33	54.00	-12.67	1.50	180	35.63	5.70	Horizontal	Average
7386.00	50.24	74.00	-23.76	1.50	180	39.44	10.80	Horizontal	Peak
7386.00	41.42	54.00	-12.58	1.50	180	30.62	10.80	Horizontal	Average
2483.50	44.83	74.00	-29.17	1.60	100	43.23	1.60	Vertical	Peak
2483.50	35.65	54.00	-18.35	1.60	100	34.05	1.60	Vertical	Average
4924.00	48.11	74.00	-25.89	1.60	100	42.41	5.70	Vertical	Peak
4924.00	38.71	54.00	-15.29	1.60	100	33.01	5.70	Vertical	Average
7386.00	50.99	74.00	-23.01	1.60	100	40.19	10.80	Vertical	Peak
7386.00	41.32	54.00	-12.68	1.60	100	30.52	10.80	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11n-HT20_2412MHz - MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	45.43	74.00	-28.57	1.50	150	44.13	1.30	Horizontal	Peak
2390.00	37.86	54.00	-16.14	1.50	150	36.56	1.30	Horizontal	Average
4824.00	47.47	74.00	-26.53	1.50	150	41.07	6.40	Horizontal	Peak
4824.00	39.84	54.00	-14.16	1.50	150	33.44	6.40	Horizontal	Average
7236.00	50.38	74.00	-23.62	1.50	150	39.88	10.50	Horizontal	Peak
7236.00	41.63	54.00	-12.37	1.50	150	31.13	10.50	Horizontal	Average
2390.00	47.20	74.00	-26.80	1.70	90	45.90	1.30	Vertical	Peak
2390.00	38.50	54.00	-15.50	1.70	90	37.20	1.30	Vertical	Average
4824.00	50.65	74.00	-23.35	1.70	90	44.25	6.40	Vertical	Peak
4824.00	44.34	54.00	-9.66	1.70	90	37.94	6.40	Vertical	Average
7236.00	51.26	74.00	-22.74	1.70	90	40.76	10.50	Vertical	Peak
7236.00	42.32	54.00	-11.68	1.70	90	31.82	10.50	Vertical	Average
2.4G Wi-Fi 802.11n-HT20_2437MHz - MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.56	74.00	-26.44	1.50	150	41.76	5.80	Horizontal	Peak
4874.00	39.77	54.00	-14.23	1.50	150	33.97	5.80	Horizontal	Average
7311.00	51.48	74.00	-22.52	1.50	150	40.68	10.80	Horizontal	Peak
7311.00	41.72	54.00	-12.28	1.50	150	30.92	10.80	Horizontal	Average
4874.00	50.93	74.00	-23.07	1.70	90	45.13	5.80	Vertical	Peak
4874.00	45.21	54.00	-8.79	1.70	90	39.41	5.80	Vertical	Average
7311.00	52.12	74.00	-21.88	1.70	90	41.32	10.80	Vertical	Peak
7311.00	40.71	54.00	-13.29	1.70	90	29.91	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11n-HT20_2462MHz - MIMO

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	45.29	74.00	-28.71	1.50	150	43.69	1.60	Horizontal	Peak
2483.50	35.33	54.00	-18.67	1.50	150	33.73	1.60	Horizontal	Average
4924.00	49.73	74.00	-24.27	1.50	150	44.03	5.70	Horizontal	Peak
4924.00	41.88	54.00	-12.12	1.50	150	36.18	5.70	Horizontal	Average
7386.00	49.75	74.00	-24.25	1.50	150	38.95	10.80	Horizontal	Peak
7386.00	41.75	54.00	-12.25	1.50	150	30.95	10.80	Horizontal	Average
2483.50	45.58	74.00	-28.42	1.70	90	43.98	1.60	Vertical	Peak
2483.50	34.73	54.00	-19.27	1.70	90	33.13	1.60	Vertical	Average
4924.00	46.77	74.00	-27.23	1.70	90	41.07	5.70	Vertical	Peak
4924.00	38.71	54.00	-15.29	1.70	90	33.01	5.70	Vertical	Average
7386.00	51.84	74.00	-22.16	1.70	90	41.04	10.80	Vertical	Peak
7386.00	42.78	54.00	-11.22	1.70	90	31.98	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

2.4G Wi-Fi 802.11ax-HE20_2412MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	44.84	74.00	-29.16	1.50	150	43.54	1.30	Horizontal	Peak
2390.00	37.01	54.00	-16.99	1.50	150	35.71	1.30	Horizontal	Average
4824.00	47.38	74.00	-26.62	1.50	150	40.98	6.40	Horizontal	Peak
4824.00	39.85	54.00	-14.15	1.50	150	33.45	6.40	Horizontal	Average
7236.00	50.91	74.00	-23.09	1.50	150	40.41	10.50	Horizontal	Peak
7236.00	41.06	54.00	-12.94	1.50	150	30.56	10.50	Horizontal	Average
2390.00	45.93	74.00	-28.07	1.70	90	44.63	1.30	Vertical	Peak
2390.00	38.19	54.00	-15.81	1.70	90	36.89	1.30	Vertical	Average
4824.00	49.67	74.00	-24.33	1.70	90	43.27	6.40	Vertical	Peak
4824.00	44.72	54.00	-9.28	1.70	90	38.32	6.40	Vertical	Average
7236.00	52.23	74.00	-21.77	1.70	90	41.73	10.50	Vertical	Peak
7236.00	42.02	54.00	-11.98	1.70	90	31.52	10.50	Vertical	Average
2.4G Wi-Fi 802.11ax-HE20_2437MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.29	74.00	-26.71	1.50	150	41.49	5.80	Horizontal	Peak
4874.00	39.62	54.00	-14.38	1.50	150	33.82	5.80	Horizontal	Average
7311.00	50.73	74.00	-23.27	1.50	150	39.93	10.80	Horizontal	Peak
7311.00	41.17	54.00	-12.83	1.50	150	30.37	10.80	Horizontal	Average
4874.00	49.82	74.00	-24.18	1.70	90	44.02	5.80	Vertical	Peak
4874.00	44.54	54.00	-9.46	1.70	90	38.74	5.80	Vertical	Average
7311.00	50.47	74.00	-23.53	1.70	90	39.67	10.80	Vertical	Peak
7311.00	40.88	54.00	-13.12	1.70	90	30.08	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11ax-HE20_2462MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	45.56	74.00	-28.44	1.50	150	43.96	1.60	Horizontal	Peak
2483.50	36.00	54.00	-18.00	1.50	150	34.40	1.60	Horizontal	Average
4924.00	50.36	74.00	-23.64	1.50	150	44.66	5.70	Horizontal	Peak
4924.00	41.37	54.00	-12.63	1.50	150	35.67	5.70	Horizontal	Average
7386.00	49.94	74.00	-24.06	1.50	150	39.14	10.80	Horizontal	Peak
7386.00	41.81	54.00	-12.19	1.50	150	31.01	10.80	Horizontal	Average
2483.50	45.25	74.00	-28.75	1.70	90	43.65	1.60	Vertical	Peak
2483.50	36.11	54.00	-17.89	1.70	90	34.51	1.60	Vertical	Average
4924.00	47.26	74.00	-26.74	1.70	90	41.56	5.70	Vertical	Peak
4924.00	38.18	54.00	-15.82	1.70	90	32.48	5.70	Vertical	Average
7386.00	51.17	74.00	-22.83	1.70	90	40.37	10.80	Vertical	Peak
7386.00	41.08	54.00	-12.92	1.70	90	30.28	10.80	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11n-HT40_2422MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	45.66	74.00	-28.34	1.50	150	44.36	1.30	Horizontal	Peak
2390.00	37.70	54.00	-16.30	1.50	150	36.40	1.30	Horizontal	Average
4844.00	47.93	74.00	-26.07	1.50	150	41.53	6.40	Horizontal	Peak
4844.00	40.16	54.00	-13.84	1.50	150	33.76	6.40	Horizontal	Average
7266.00	50.36	74.00	-23.64	1.50	150	39.86	10.50	Horizontal	Peak
7266.00	41.68	54.00	-12.32	1.50	150	31.18	10.50	Horizontal	Average
2390.00	47.36	74.00	-26.64	1.70	90	46.06	1.30	Vertical	Peak
2390.00	38.05	54.00	-15.95	1.70	90	36.75	1.30	Vertical	Average
4844.00	50.93	74.00	-23.07	1.70	90	44.53	6.40	Vertical	Peak
4844.00	44.09	54.00	-9.91	1.70	90	37.69	6.40	Vertical	Average
7266.00	51.62	74.00	-22.38	1.70	90	41.12	10.50	Vertical	Peak
7266.00	41.89	54.00	-12.11	1.70	90	31.39	10.50	Vertical	Average
2.4G Wi-Fi 802.11n-HT40_2437MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.80	74.00	-26.20	1.50	150	42.00	5.80	Horizontal	Peak
4874.00	39.78	54.00	-14.22	1.50	150	33.98	5.80	Horizontal	Average
7311.00	51.08	74.00	-22.92	1.50	150	40.28	10.80	Horizontal	Peak
7311.00	41.61	54.00	-12.39	1.50	150	30.81	10.80	Horizontal	Average
4874.00	50.68	74.00	-23.32	1.70	90	44.88	5.80	Vertical	Peak
4874.00	44.83	54.00	-9.17	1.70	90	39.03	5.80	Vertical	Average
7311.00	52.14	74.00	-21.86	1.70	90	41.34	10.80	Vertical	Peak
7311.00	41.20	54.00	-12.80	1.70	90	30.40	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11n-HT40_2452MHz - MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	45.39	74.00	-28.61	1.50	150	43.79	1.60	Horizontal	Peak
2483.50	34.85	54.00	-19.15	1.50	150	33.25	1.60	Horizontal	Average
4904.00	49.75	74.00	-24.25	1.50	150	44.05	5.70	Horizontal	Peak
4904.00	42.19	54.00	-11.81	1.50	150	36.49	5.70	Horizontal	Average
7356.00	49.42	74.00	-24.58	1.50	150	38.62	10.80	Horizontal	Peak
7356.00	42.00	54.00	-12.00	1.50	150	31.20	10.80	Horizontal	Average
2483.50	45.31	74.00	-28.69	1.70	90	43.71	1.60	Vertical	Peak
2483.50	35.06	54.00	-18.94	1.70	90	33.46	1.60	Vertical	Average
4904.00	46.32	74.00	-27.68	1.70	90	40.62	5.70	Vertical	Peak
4904.00	38.53	54.00	-15.47	1.70	90	32.83	5.70	Vertical	Average
7356.00	52.10	74.00	-21.90	1.70	90	41.30	10.80	Vertical	Peak
7356.00	42.42	54.00	-11.58	1.70	90	31.62	10.80	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11ax-HE40_2422MHz - MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	45.12	74.00	-28.88	1.50	150	43.82	1.30	Horizontal	Peak
2390.00	37.03	54.00	-16.97	1.50	150	35.73	1.30	Horizontal	Average
4844.00	47.17	74.00	-26.83	1.50	150	40.77	6.40	Horizontal	Peak
4844.00	40.12	54.00	-13.88	1.50	150	33.72	6.40	Horizontal	Average
7266.00	50.76	74.00	-23.24	1.50	150	40.26	10.50	Horizontal	Peak
7266.00	41.29	54.00	-12.71	1.50	150	30.79	10.50	Horizontal	Average
2390.00	46.19	74.00	-27.81	1.70	90	44.89	1.30	Vertical	Peak
2390.00	38.49	54.00	-15.51	1.70	90	37.19	1.30	Vertical	Average
4844.00	49.89	74.00	-24.11	1.70	90	43.49	6.40	Vertical	Peak
4844.00	44.53	54.00	-9.47	1.70	90	38.13	6.40	Vertical	Average
7266.00	52.51	74.00	-21.49	1.70	90	42.01	10.50	Vertical	Peak
7266.00	41.64	54.00	-12.36	1.70	90	31.14	10.50	Vertical	Average
2.4G Wi-Fi 802.11ax-HE40_2437MHz - MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.29	74.00	-26.71	1.50	150	41.49	5.80	Horizontal	Peak
4874.00	39.43	54.00	-14.57	1.50	150	33.63	5.80	Horizontal	Average
7311.00	50.75	74.00	-23.25	1.50	150	39.95	10.80	Horizontal	Peak
7311.00	41.07	54.00	-12.93	1.50	150	30.27	10.80	Horizontal	Average
4874.00	50.14	74.00	-23.86	1.70	90	44.34	5.80	Vertical	Peak
4874.00	44.78	54.00	-9.22	1.70	90	38.98	5.80	Vertical	Average
7311.00	50.69	74.00	-23.31	1.70	90	39.89	10.80	Vertical	Peak
7311.00	40.91	54.00	-13.09	1.70	90	30.11	10.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.4G Wi-Fi 802.11ax-HE40_2452MHz - MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	45.87	74.00	-28.13	1.50	150	44.27	1.60	Horizontal	Peak
2483.50	35.52	54.00	-18.48	1.50	150	33.92	1.60	Horizontal	Average
4904.00	50.23	74.00	-23.77	1.50	150	44.53	5.70	Horizontal	Peak
4904.00	41.34	54.00	-12.66	1.50	150	35.64	5.70	Horizontal	Average
7356.00	50.16	74.00	-23.84	1.50	150	39.36	10.80	Horizontal	Peak
7356.00	41.54	54.00	-12.46	1.50	150	30.74	10.80	Horizontal	Average
2483.50	44.87	74.00	-29.13	1.70	90	43.27	1.60	Vertical	Peak
2483.50	36.00	54.00	-18.00	1.70	90	34.40	1.60	Vertical	Average
4904.00	47.75	74.00	-26.25	1.70	90	42.05	5.70	Vertical	Peak
4904.00	38.52	54.00	-15.48	1.70	90	32.82	5.70	Vertical	Average
7356.00	50.93	74.00	-23.07	1.70	90	40.13	10.80	Vertical	Peak
7356.00	40.85	54.00	-13.15	1.70	90	30.05	10.80	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

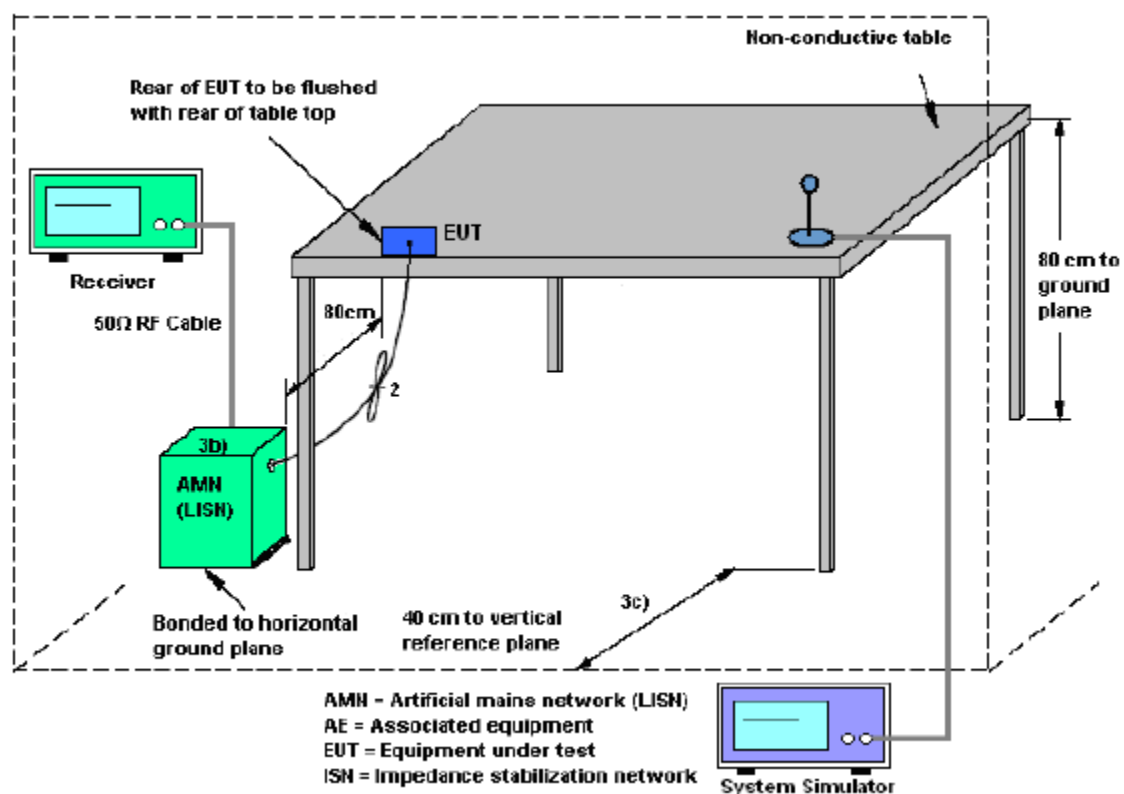
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



2.7.4. Test Procedures

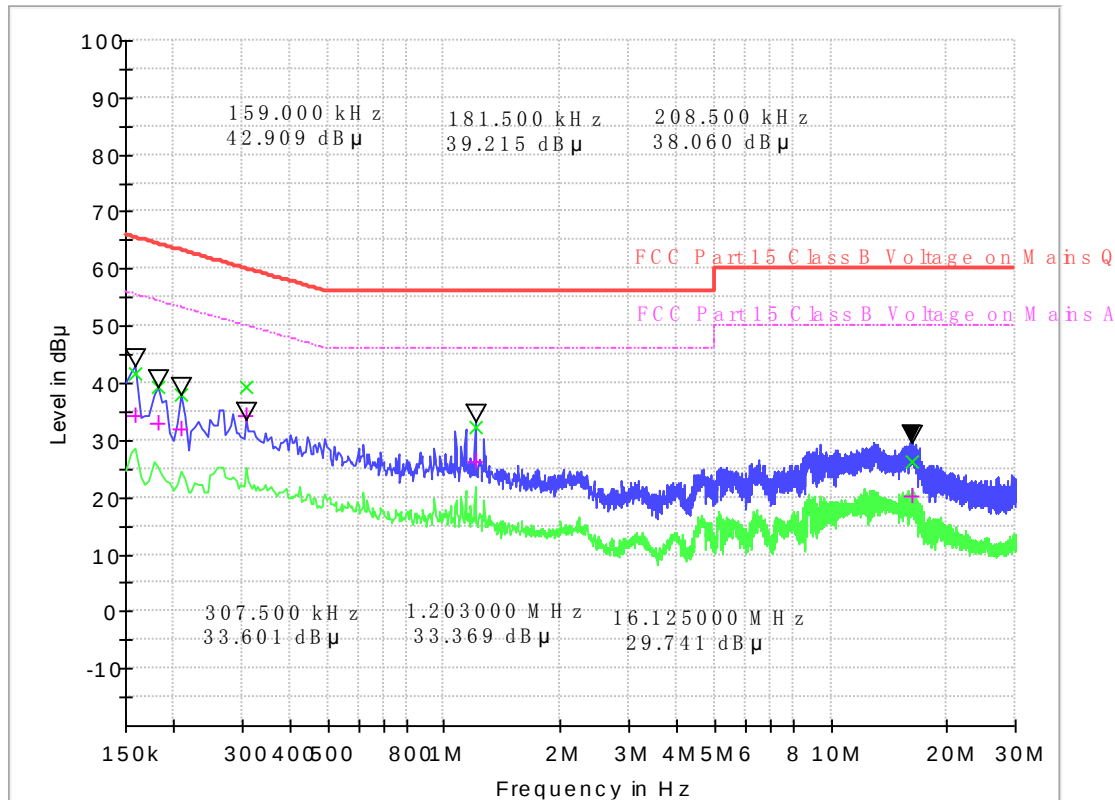
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.7.5. Test Results of Conducted Emission

NOTE 1: The EUT configuration of the emission tests is 2.4G WLAN Link + USB Cable (Charging from Adapter).

NOTE 2: All of the EUT Configure mode were tested and found 802.11b 2437MHz channel is the worst mode, the worst case is recorded in this report.

Line Phase

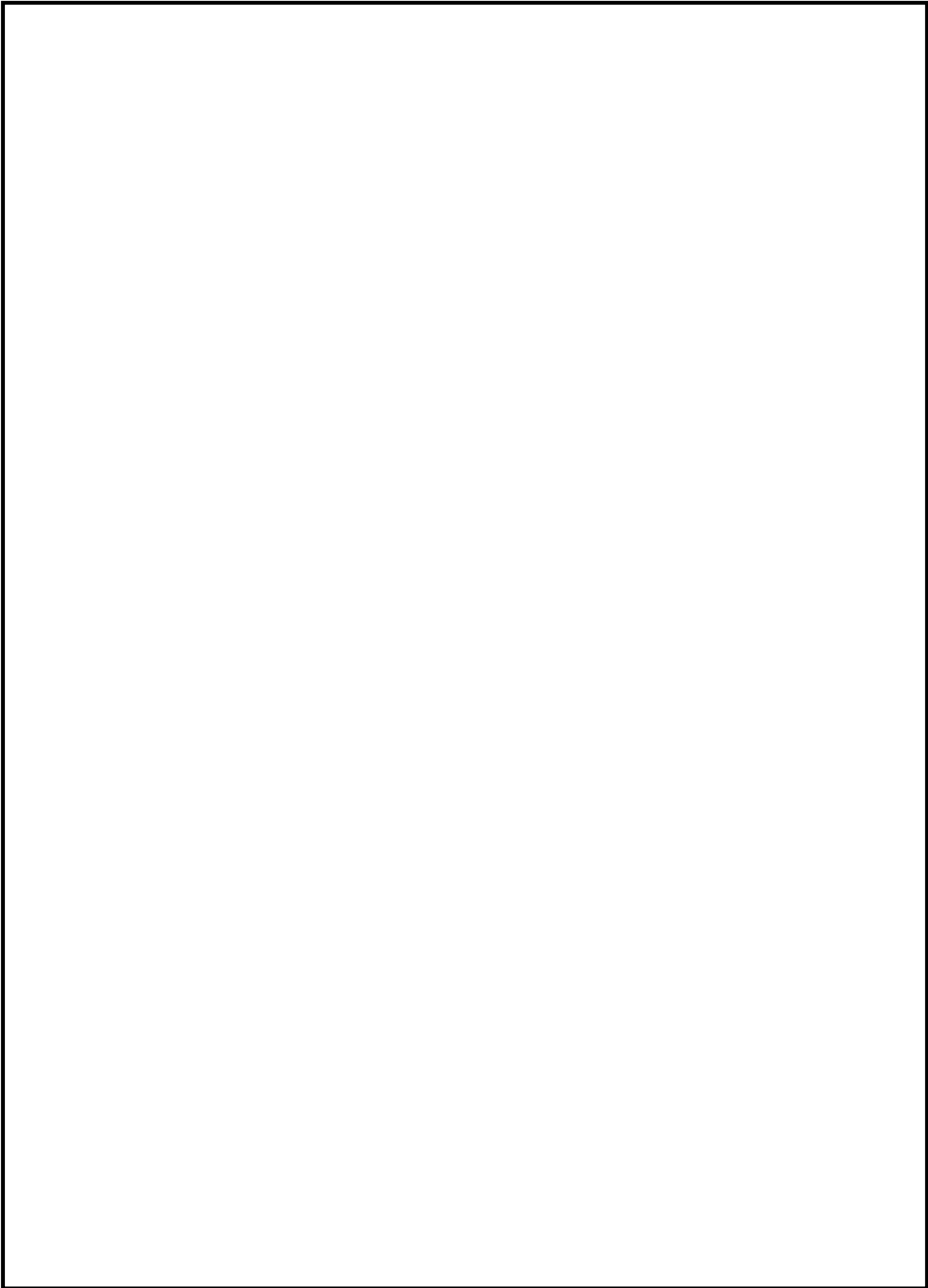


Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Cabel Loss (dB)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V)	Margin - AV (dB)	Limit - AV (dB μ V)
0.159000	41.60	34.18	0.2	10.2	23.92	65.5	21.34	55.5
0.181500	39.48	33.00	0.2	10.2	24.94	64.4	21.42	54.4
0.208500	38.15	31.85	0.2	10.2	25.11	63.3	21.41	53.3
0.307500	39.37	34.21	0.2	10.2	20.67	60.0	15.83	50.0
1.203000	32.16	26.41	0.2	10.2	23.84	56.0	19.59	46.0
16.125000	26.13	20.17	0.5	10.5	33.87	60.0	29.83	50.0

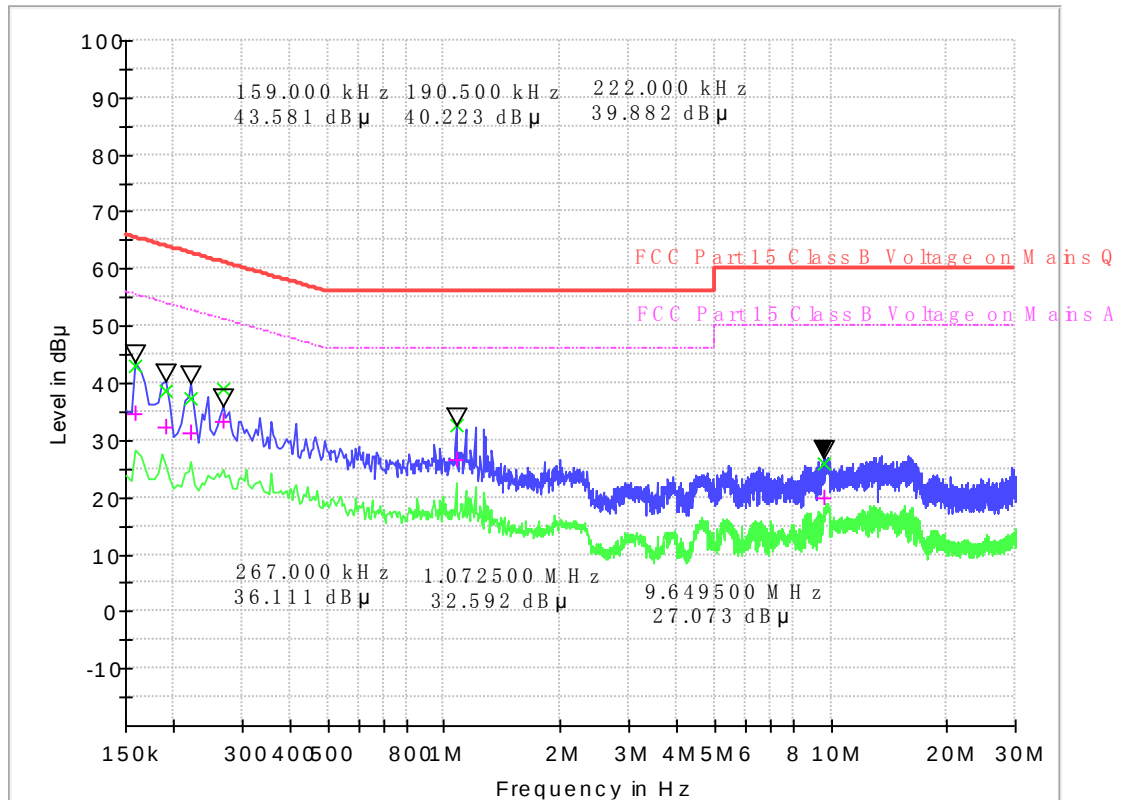
Test Result : Pass

Remark:

1. Correction factor = Cabel loss+ attenuation factor.
2. attenuation factor = 10dB.



Neutral Phase



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Cabel Loss (dB)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V)	Margin - AV (dB)	Limit - AV (dB μ V)
0.159000	42.87	34.62	0.2	10.2	22.65	65.5	20.90	55.5
0.190500	38.74	32.29	0.2	10.2	25.27	64.0	21.72	54.0
0.222000	37.42	31.37	0.2	10.2	25.32	62.7	21.37	52.7
0.267000	38.88	33.14	0.2	10.2	22.33	61.2	18.07	51.2
1.072500	32.68	26.48	0.2	10.2	23.32	56.0	19.52	46.0
9.649500	26.00	20.00	0.5	10.5	34.00	60.0	30.00	50.0

Test Result : Pass

Remark:

1. Correction factor = Cabel loss+ attenuation factor.
2. attenuation factor = 10dB.

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRP-Z31	A141001975	2022.04.21	2023.04.20
2	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2021.08.03	2022.08.02
3	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
4	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
5	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2020.06.19	2023.06.18
6	EMI Horn Ant. (1-18G)	ETC	1209	A150402241	2021.01.02	2024.01.01
7	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2020.06.19	2023.06.18
8	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2020.09.22	2023.09.21
9	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2021.12.23	2022.12.22
10	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2022.03.25	2023.03.24
11	Test Receiver	R&S	ESIB7	A0501375	2022.04.18	2023.04.17
12	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
13	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
14	Temperature chamber	TABAI	PS-232	A8708054	2021.09.24	2022.09.23
15	Wideband Radio Communication tester	R&S	CMW500	A130101034	2021.01.26	2023.01.25
16	Test Receiver	KEYSIGHT	N9038A	A141202036	2021.09.20	2022.08.04
17	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2021.09.21	2022.08.02
18	Cable	MATCHING PAD	W7	/	2021.08.01	2022.08.02

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
--	-------

Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
--	-------

Appendix A

RF Output Power

Test Result and Data

Output Power (Peak)								
Mode	Frequency (MHz)	Ant	Power (dBm)	Total Power (dBm)	Total EIRP (dBm)	FCC&IC Power Limit (dBm)	IC EIRP Limit (dBm)	Result
802.11b	2412	Ant9	15.67	/	15.07	30	36	Pass
802.11b	2412	Ant7	16.29	/	12.49	30	36	Pass
802.11b	2437	Ant9	15.49	/	14.89	30	36	Pass
802.11b	2437	Ant7	16.34	/	12.54	30	36	Pass
802.11b	2462	Ant9	15.71	/	15.11	30	36	Pass
802.11b	2462	Ant7	16.03	/	12.23	30	36	Pass
802.11g	2412	Ant9	14.46	/	13.86	30	36	Pass
802.11g	2412	Ant7	15.49	/	11.69	30	36	Pass
802.11g	2437	Ant9	14.67	/	14.07	30	36	Pass
802.11g	2437	Ant7	15.72	/	11.92	30	36	Pass
802.11g	2462	Ant9	14.83	/	14.23	30	36	Pass
802.11g	2462	Ant7	15.31	/	11.51	30	36	Pass
802.11n (HT20)	2412	Ant9	10.93	14.38	15.48	30	36	Pass
802.11n (HT20)	2412	Ant7	11.77			30	36	Pass
802.11n (HT20)	2437	Ant9	10.83	14.17	15.27	30	36	Pass
802.11n (HT20)	2437	Ant7	11.46			30	36	Pass
802.11n (HT20)	2462	Ant9	10.73	14.15	15.25	30	36	Pass
802.11n (HT20)	2462	Ant7	11.51			30	36	Pass
802.11n (HT40)	2422	Ant9	10.13	13.61	14.71	30	36	Pass
802.11n (HT40)	2422	Ant7	11.03			30	36	Pass
802.11n (HT40)	2437	Ant9	10.26	13.97	15.07	30	36	Pass
802.11n (HT40)	2437	Ant7	11.57			30	36	Pass
802.11n (HT40)	2452	Ant9	10.12	13.70	14.80	30	36	Pass
802.11n (HT40)	2452	Ant7	11.20			30	36	Pass
802.11ax (HE20)	2412	Ant9	11.42	14.03	15.13	30	36	Pass
802.11ax (HE20)	2412	Ant7	10.57			30	36	Pass
802.11ax (HE20)	2437	Ant9	11.59	14.12	15.22	30	36	Pass



802.11ax (HE20)	2437	Ant7	10.56			30	36	Pass
802.11ax (HE20)	2462	Ant9	10.74	13.98	15.08	30	36	Pass
802.11ax (HE20)	2462	Ant7	11.18			30	36	Pass
802.11ax (HE40)	2422	Ant9	9.78	12.95	14.05	30	36	Pass
802.11ax (HE40)	2422	Ant7	10.10			30	36	Pass
802.11ax (HE40)	2437	Ant9	9.77	13.17	14.27	30	36	Pass
802.11ax (HE40)	2437	Ant7	10.51			30	36	Pass
802.11ax (HE40)	2452	Ant9	9.75	13.03	14.13	30	36	Pass
802.11ax (HE40)	2452	Ant7	10.27			30	36	Pass

Note:

1) ANT9 and ANT7 is 2*2MIMO.

2) Antenna Gain: Ant9: -0.6dBi; Ant7: -3.8dBi.

3) Directional Gain: 1.1dBi.

4) Total Power = $10 \cdot \log \{10^{(\text{Ant 9 Power}/10)} + 10^{(\text{Ant 7 Power}/10)}\}$.

5) Total EIRP = Total Power + Directional Gain.

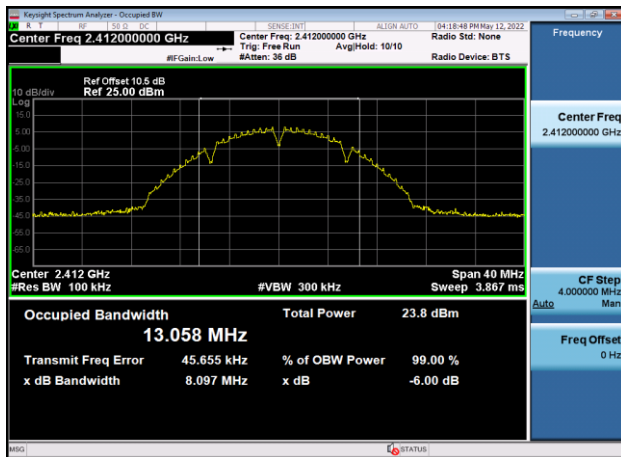
6dB Bandwidth Test Result and Data

6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant9	8.10	Pass
802.11b	2412	Ant7	8.10	Pass
802.11b	2437	Ant9	8.11	Pass
802.11b	2437	Ant7	8.11	Pass
802.11b	2462	Ant9	8.06	Pass
802.11b	2462	Ant7	8.06	Pass
802.11g	2412	Ant9	16.32	Pass
802.11g	2412	Ant7	16.30	Pass
802.11g	2437	Ant9	16.36	Pass
802.11g	2437	Ant7	16.35	Pass
802.11g	2462	Ant9	16.35	Pass
802.11g	2462	Ant7	16.35	Pass
802.11n (HT20)	2412	Ant9	17.20	Pass
802.11n (HT20)	2412	Ant7	16.95	Pass
802.11n (HT20)	2437	Ant9	17.58	Pass
802.11n (HT20)	2437	Ant7	17.58	Pass
802.11n (HT20)	2462	Ant9	17.57	Pass
802.11n (HT20)	2462	Ant7	17.57	Pass
802.11n (HT40)	2422	Ant9	35.74	Pass
802.11n (HT40)	2422	Ant7	35.75	Pass
802.11n (HT40)	2437	Ant9	36.37	Pass
802.11n (HT40)	2437	Ant7	36.32	Pass
802.11n (HT40)	2452	Ant9	35.74	Pass
802.11n (HT40)	2452	Ant7	36.35	Pass
802.11ax (HE20)	2412	Ant9	18.81	Pass
802.11ax (HE20)	2412	Ant7	18.96	Pass
802.11ax (HE20)	2437	Ant9	19.01	Pass
802.11ax (HE20)	2437	Ant7	18.98	Pass
802.11ax (HE20)	2462	Ant9	18.98	Pass
802.11ax (HE20)	2462	Ant7	18.97	Pass

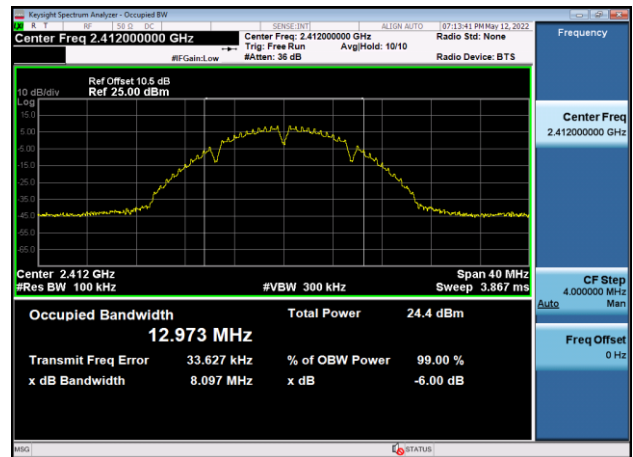


802.11ax (HE40)	2422	Ant9	37.74	Pass
802.11ax (HE40)	2422	Ant7	37.92	Pass
802.11ax (HE40)	2437	Ant9	38.15	Pass
802.11ax (HE40)	2437	Ant7	38.04	Pass
802.11ax (HE40)	2452	Ant9	37.95	Pass
802.11ax (HE40)	2452	Ant7	38.13	Pass

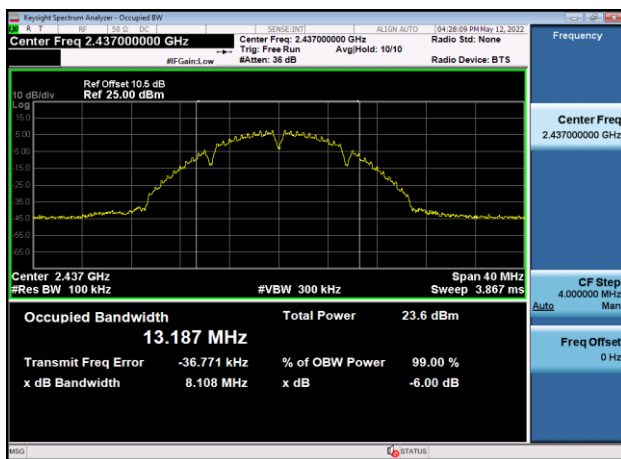
6dB Bandwidth-802.11b,2412MHz,Ant9



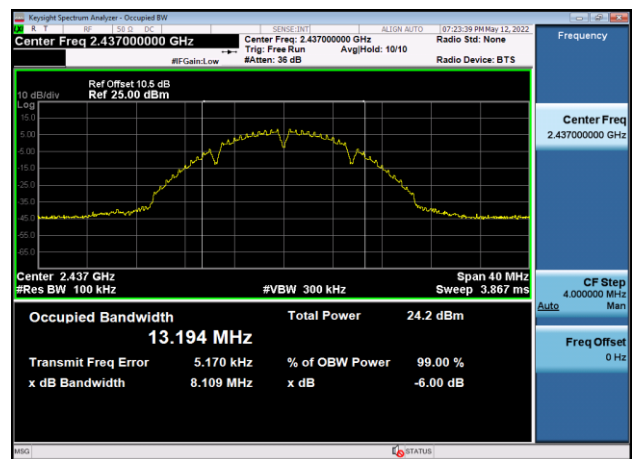
6dB Bandwidth-802.11b,2412MHz,Ant7



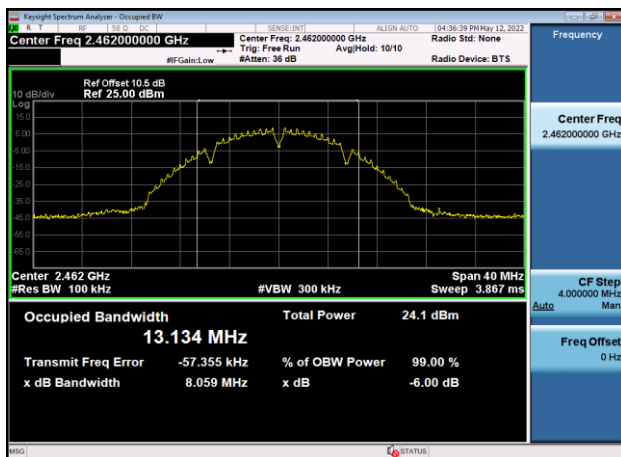
6dB Bandwidth-802.11b,2437MHz,Ant9



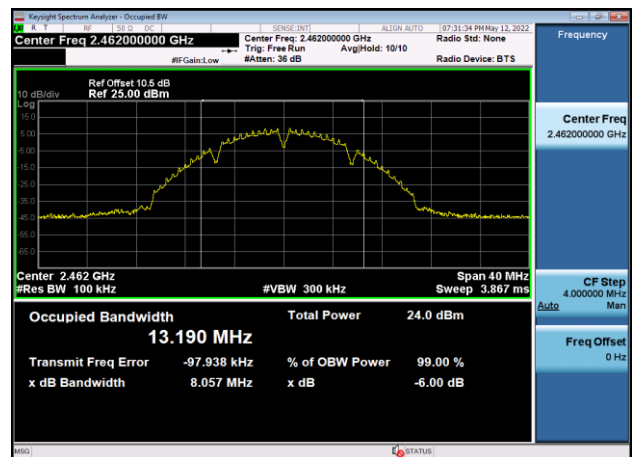
6dB Bandwidth-802.11b,2437MHz,Ant7



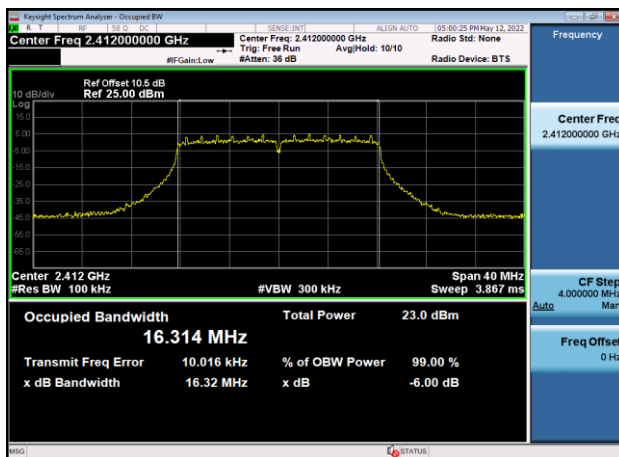
6dB Bandwidth-802.11b,2462MHz,Ant9



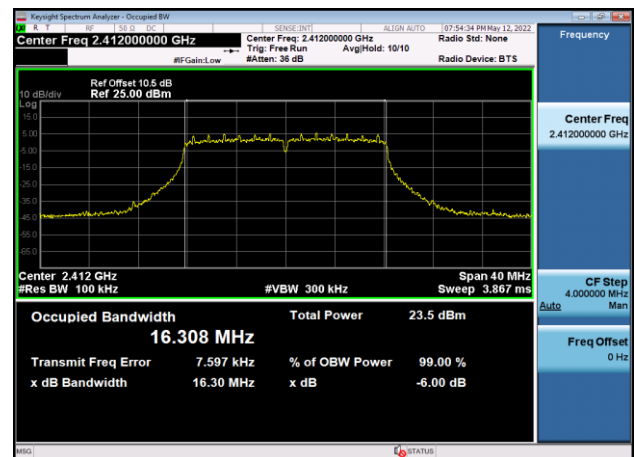
6dB Bandwidth-802.11b,2462MHz,Ant7



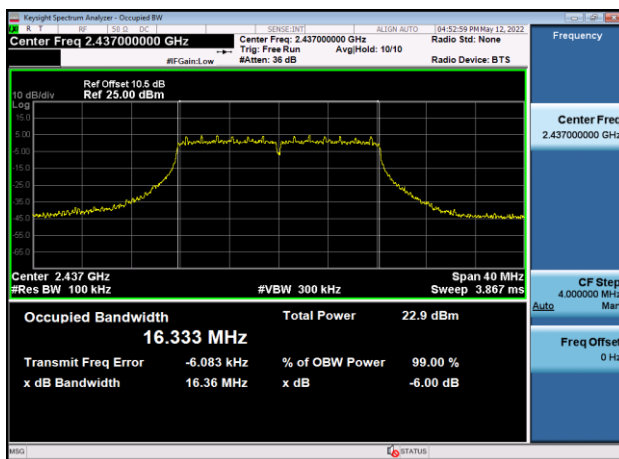
6dB Bandwidth-802.11g,2412MHz,Ant9



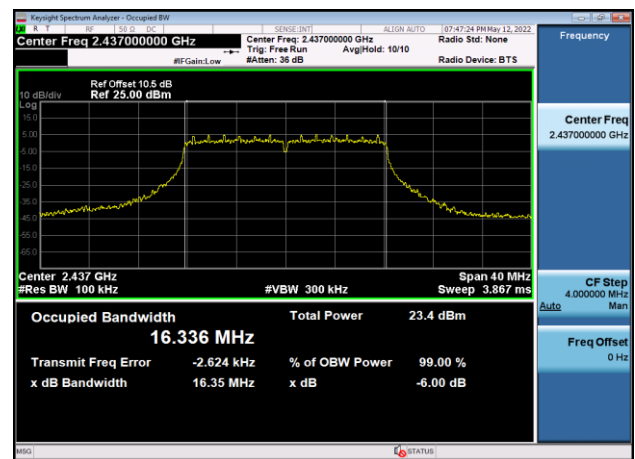
6dB Bandwidth-802.11g,2412MHz,Ant7



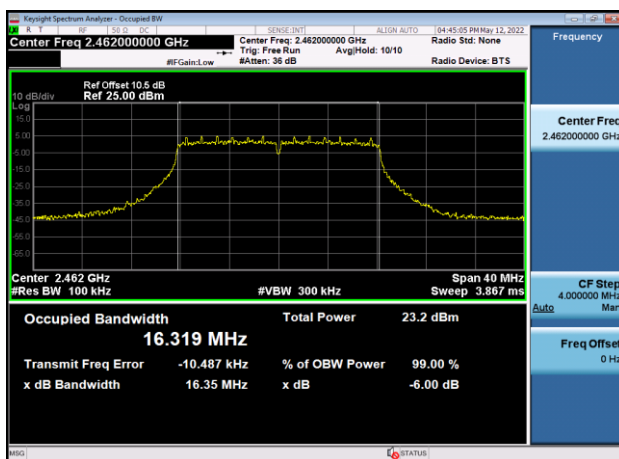
6dB Bandwidth-802.11g,2437MHz,Ant9



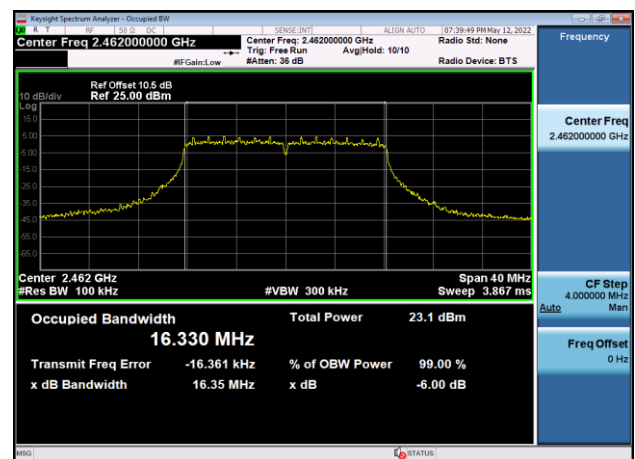
6dB Bandwidth-802.11g,2437MHz,Ant7



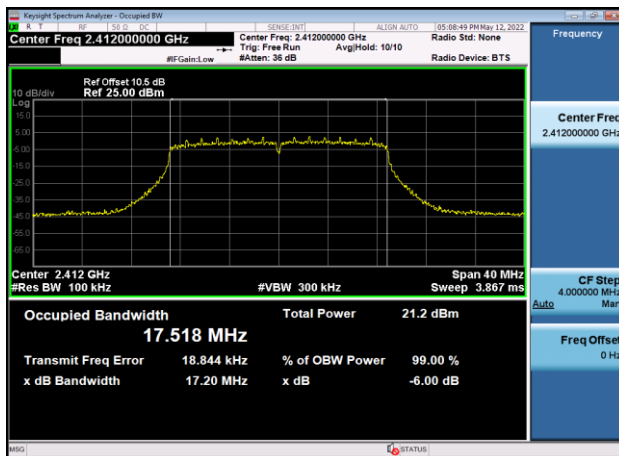
6dB Bandwidth-802.11g,2462MHz,Ant9



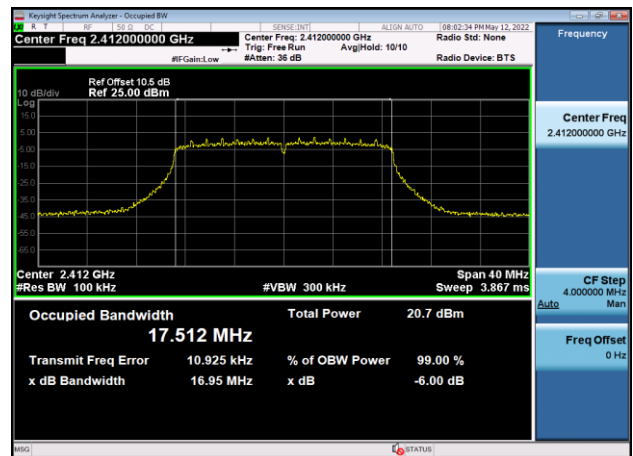
6dB Bandwidth-802.11g,2462MHz,Ant7



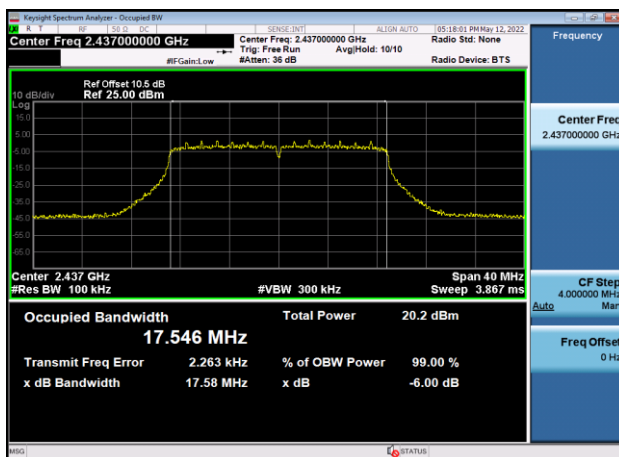
6dB Bandwidth-802.11n(HT20),2412MHz
,Ant9



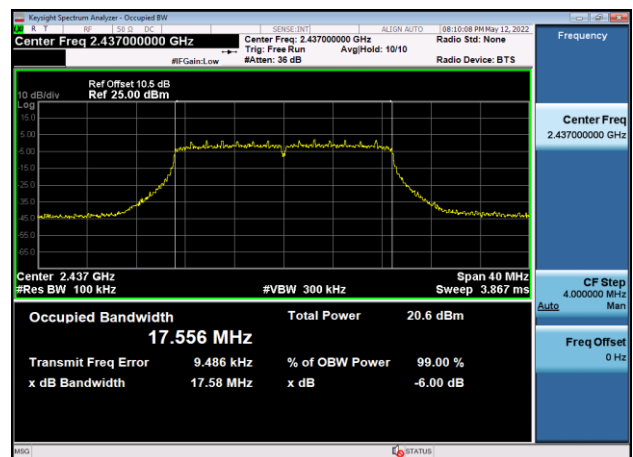
6dB Bandwidth-802.11n(HT20),2412MHz
,Ant7



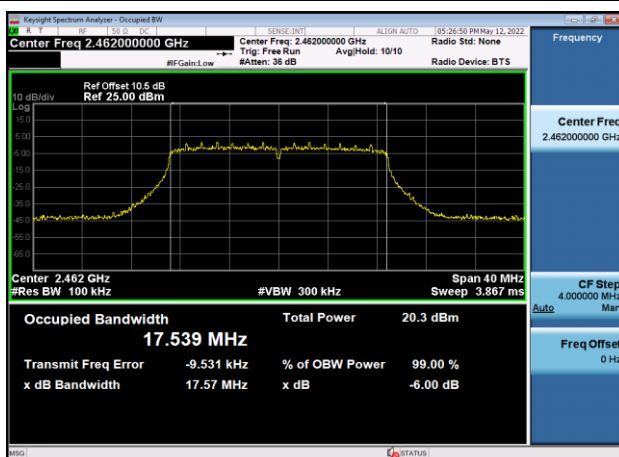
6dB Bandwidth-802.11n(HT20),2437MHz
,Ant9



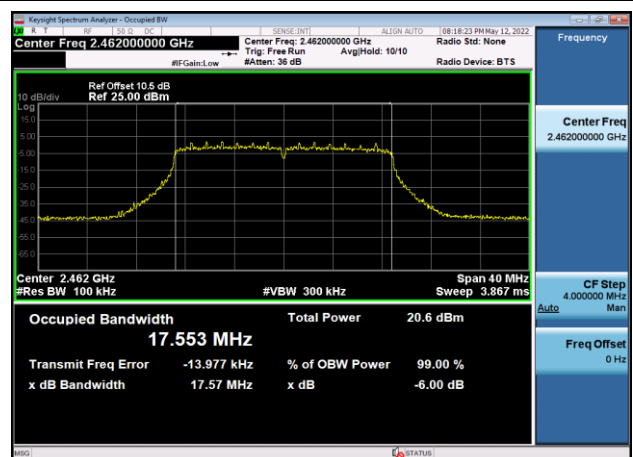
6dB Bandwidth-802.11n(HT20),2437MHz
,Ant7



6dB Bandwidth-802.11n(HT20),2462MHz
,Ant9

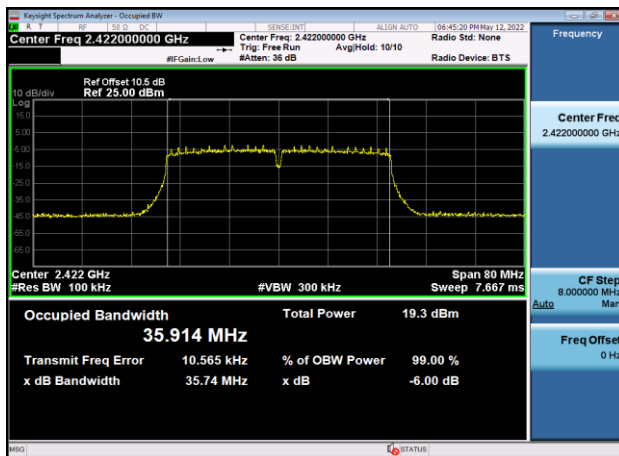


6dB Bandwidth-802.11n(HT20),2462MHz
,Ant7



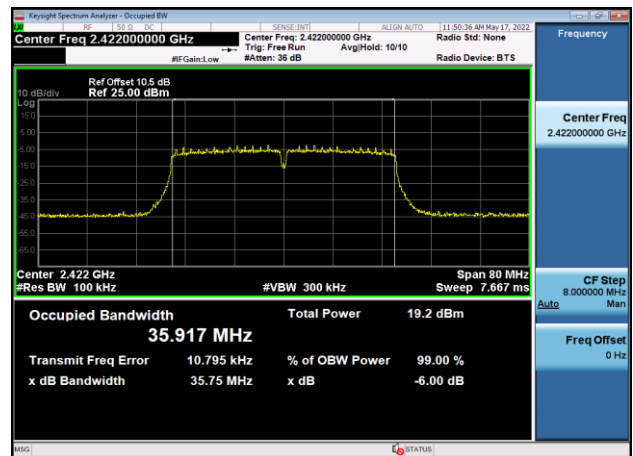
6dB Bandwidth-802.11n(HT40),2422MHz

, Ant9



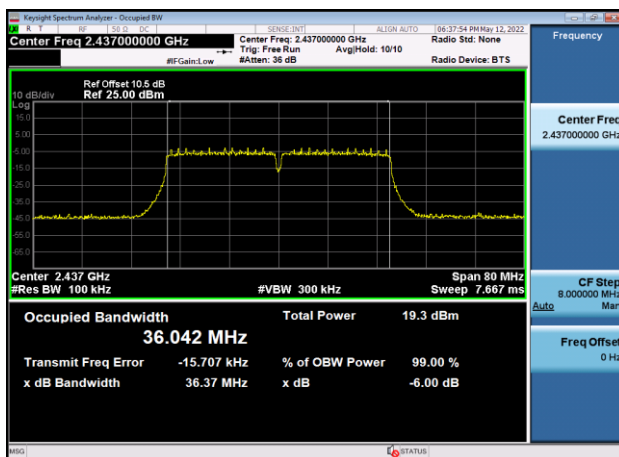
6dB Bandwidth-802.11n(HT40),2422MHz

, Ant7



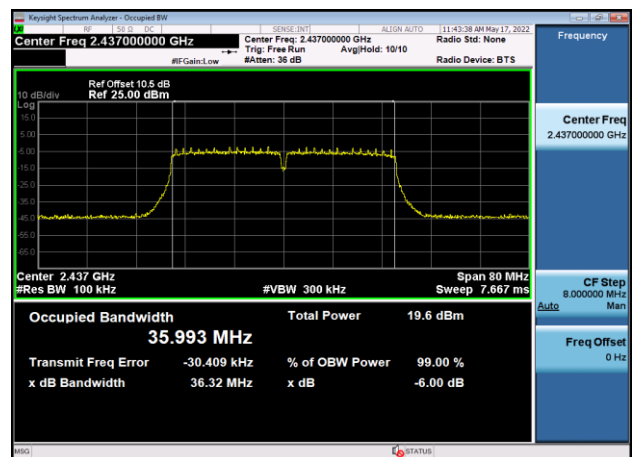
6dB Bandwidth-802.11n(HT40),2437MHz

, Ant9



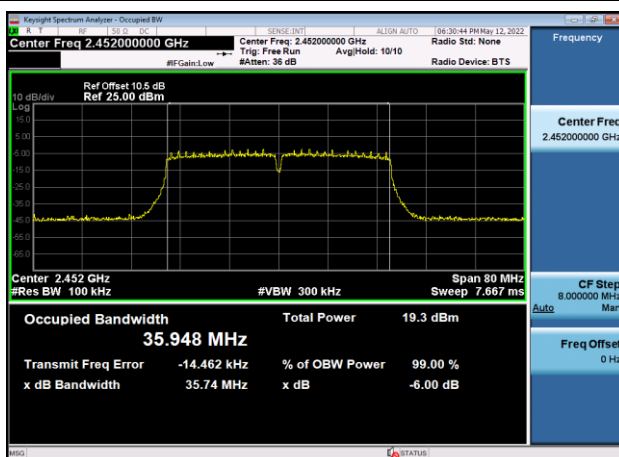
6dB Bandwidth-802.11n(HT40),2437MHz

, Ant7



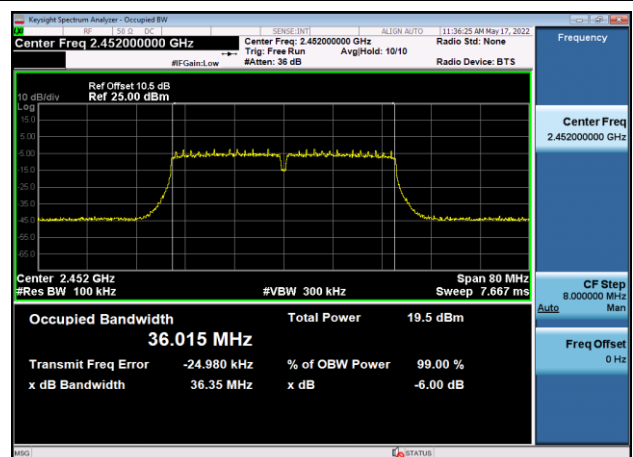
6dB Bandwidth-802.11n(HT40),2452MHz

, Ant9



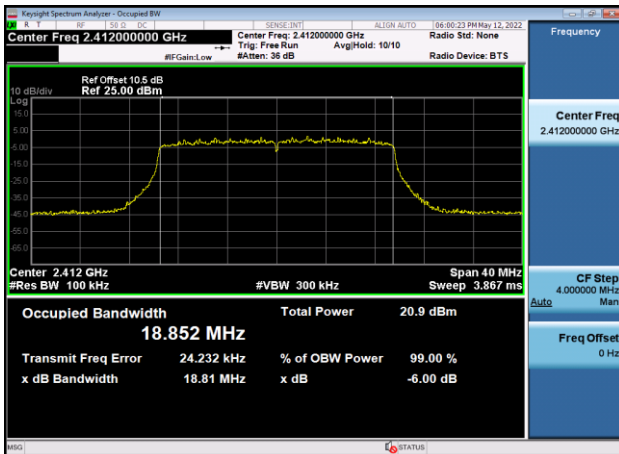
6dB Bandwidth-802.11n(HT40),2452MHz

, Ant7



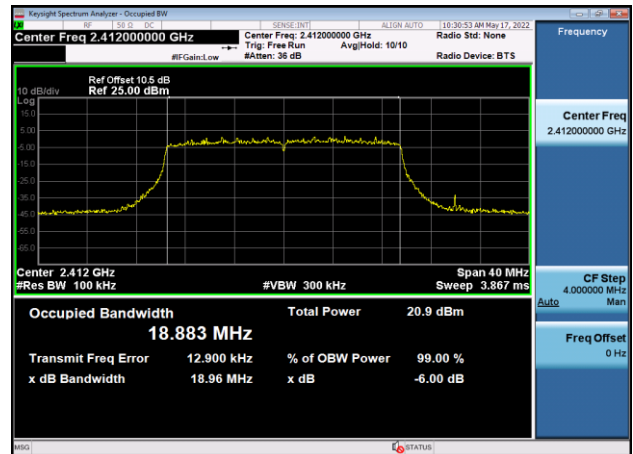
6dB Bandwidth-802.11ax(HE20),2412MHz

, Ant9



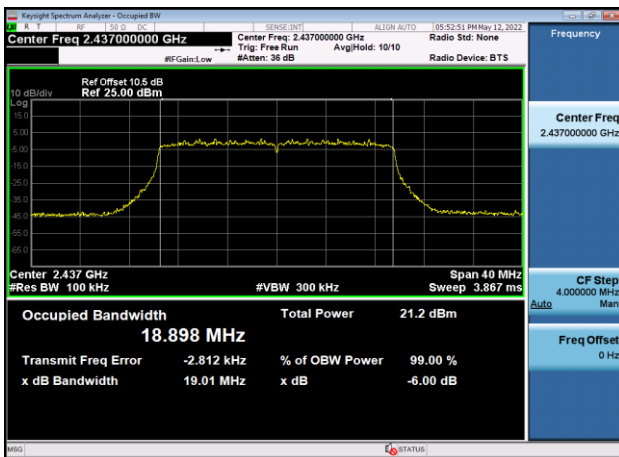
6dB Bandwidth-802.11ax(HE20),2412MHz

, Ant7



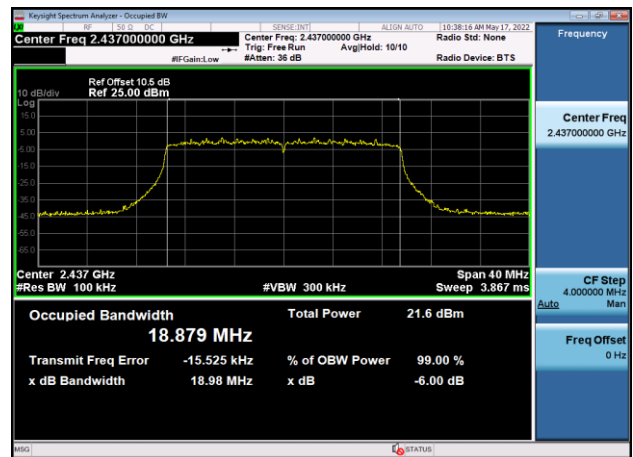
6dB Bandwidth-802.11ax(HE20),2437MHz

, Ant9



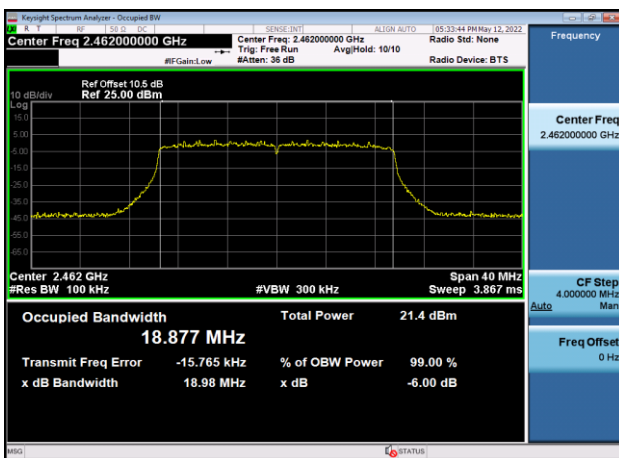
6dB Bandwidth-802.11ax(HE20),2437MHz

, Ant7



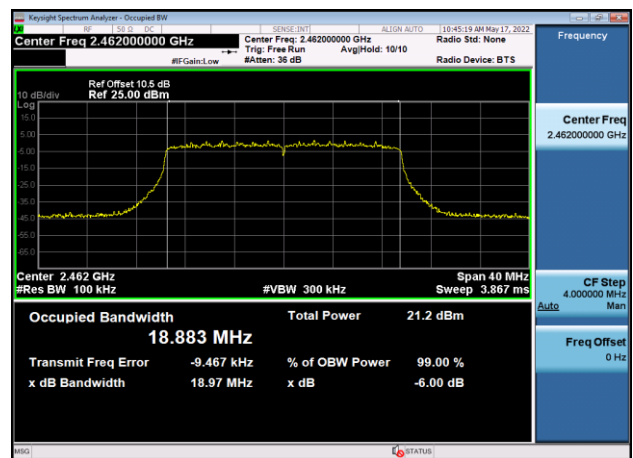
6dB Bandwidth-802.11ax(HE20),2462MHz

, Ant9



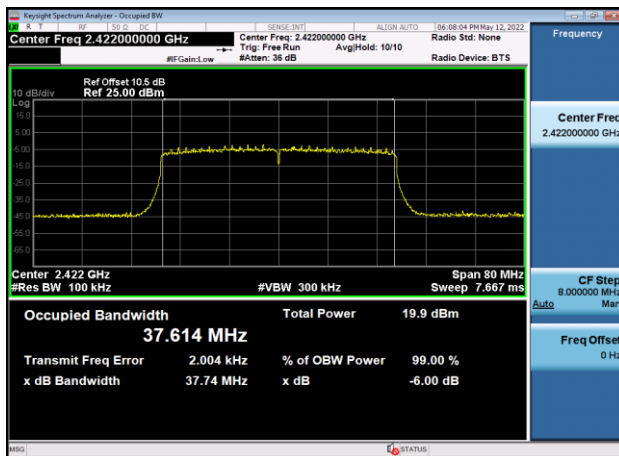
6dB Bandwidth-802.11ax(HE20),2462MHz

, Ant7



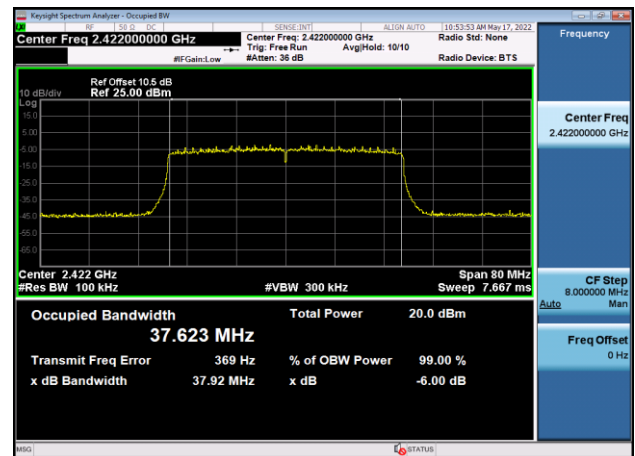
6dB Bandwidth-802.11ax(HE40),2422MHz

, Ant9



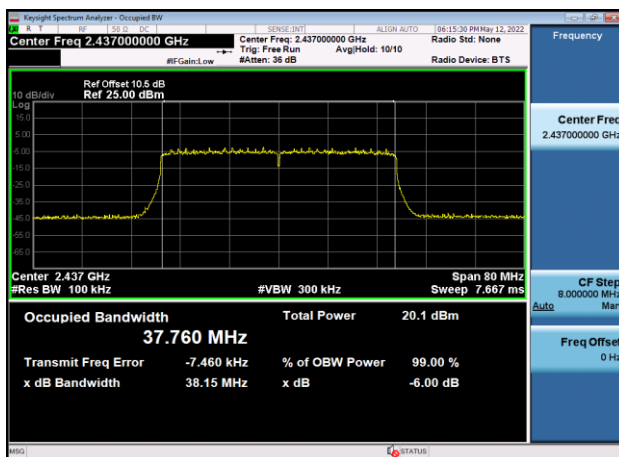
6dB Bandwidth-802.11ax(HE40),2422MHz

, Ant7



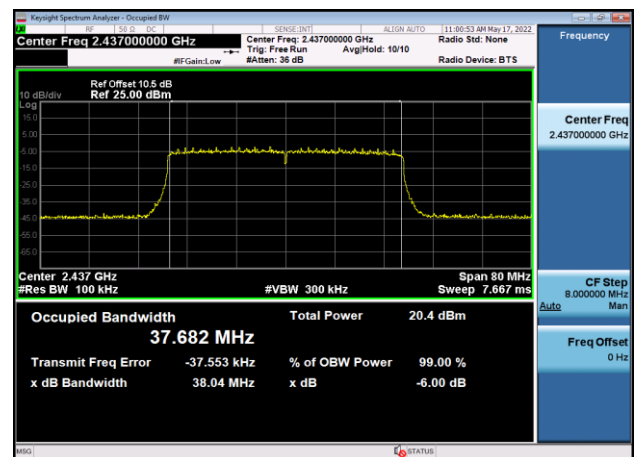
6dB Bandwidth-802.11ax(HE40),2437MHz

, Ant9



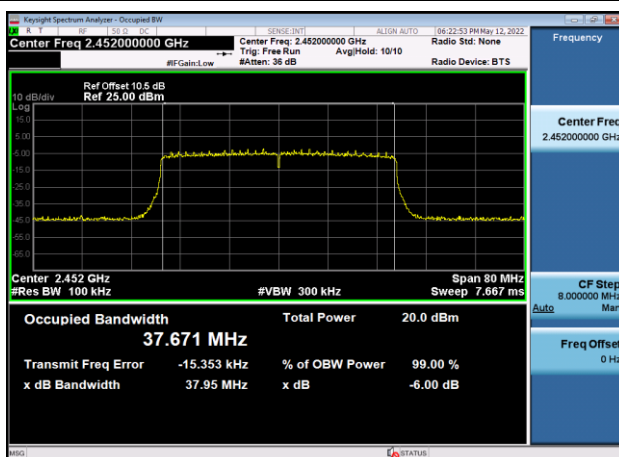
6dB Bandwidth-802.11ax(HE40),2437MHz

, Ant7



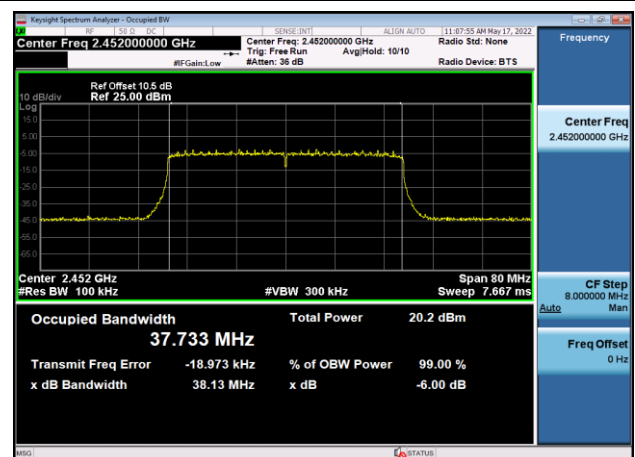
6dB Bandwidth-802.11ax(HE40),2452MHz

, Ant9



6dB Bandwidth-802.11ax(HE40),2452MHz

, Ant7



99% Occupied Bandwidth

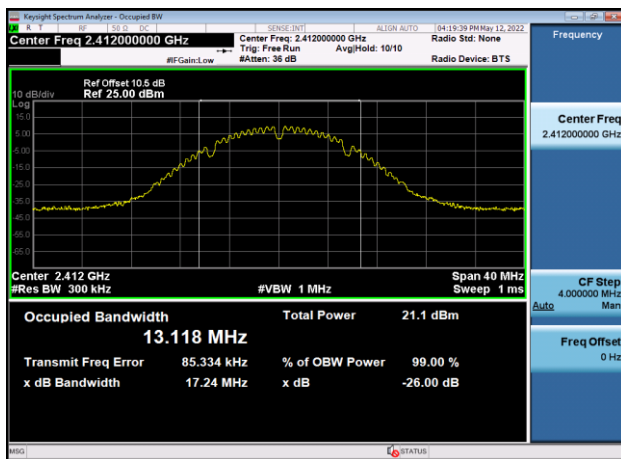
Test Result and Data

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant9	13.118	Pass
802.11b	2412	Ant7	13.021	Pass
802.11b	2437	Ant9	13.238	Pass
802.11b	2437	Ant7	13.238	Pass
802.11b	2462	Ant9	13.192	Pass
802.11b	2462	Ant7	13.233	Pass
802.11g	2412	Ant9	16.413	Pass
802.11g	2412	Ant7	16.398	Pass
802.11g	2437	Ant9	16.464	Pass
802.11g	2437	Ant7	16.469	Pass
802.11g	2462	Ant9	16.449	Pass
802.11g	2462	Ant7	16.479	Pass
802.11n (HT20)	2412	Ant9	17.553	Pass
802.11n (HT20)	2412	Ant7	17.540	Pass
802.11n (HT20)	2437	Ant9	17.615	Pass
802.11n (HT20)	2437	Ant7	17.617	Pass
802.11n (HT20)	2462	Ant9	17.581	Pass
802.11n (HT20)	2462	Ant7	17.620	Pass
802.11n (HT40)	2422	Ant9	36.159	Pass
802.11n (HT40)	2422	Ant7	36.165	Pass
802.11n (HT40)	2437	Ant9	36.340	Pass
802.11n (HT40)	2437	Ant7	36.303	Pass
802.11n (HT40)	2452	Ant9	36.213	Pass
802.11n (HT40)	2452	Ant7	36.327	Pass
802.11ax (HE20)	2412	Ant9	18.905	Pass
802.11ax (HE20)	2412	Ant7	18.931	Pass
802.11ax (HE20)	2437	Ant9	18.953	Pass
802.11ax (HE20)	2437	Ant7	18.952	Pass
802.11ax (HE20)	2462	Ant9	18.917	Pass

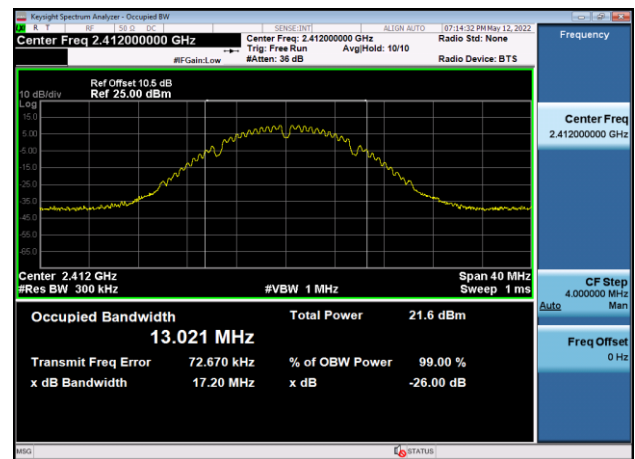


802.11ax (HE20)	2462	Ant7	18.938	Pass
802.11ax (HE40)	2422	Ant9	37.820	Pass
802.11ax (HE40)	2422	Ant7	37.824	Pass
802.11ax (HE40)	2437	Ant9	38.041	Pass
802.11ax (HE40)	2437	Ant7	37.896	Pass
802.11ax (HE40)	2452	Ant9	37.899	Pass
802.11ax (HE40)	2452	Ant7	37.989	Pass

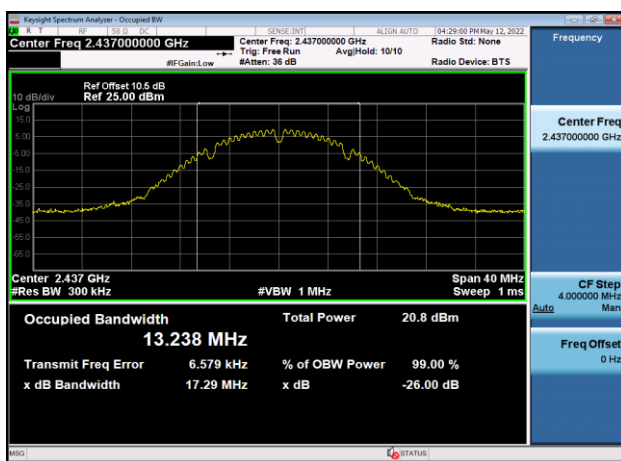
99% Bandwidth-802.11b,2412MHz,Ant9



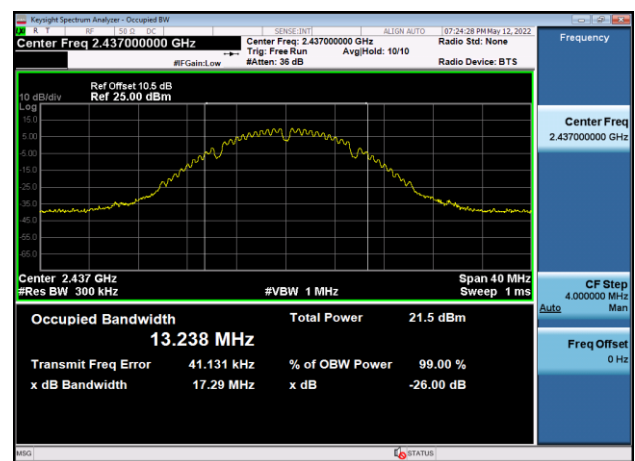
99% Bandwidth-802.11b,2412MHz,Ant7



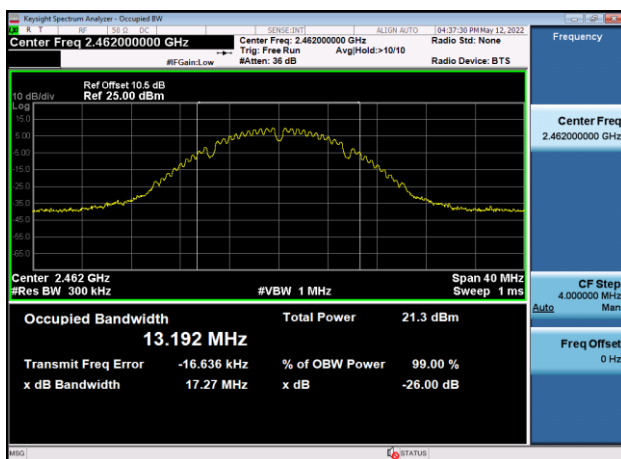
99% Bandwidth-802.11b,2437MHz,Ant9



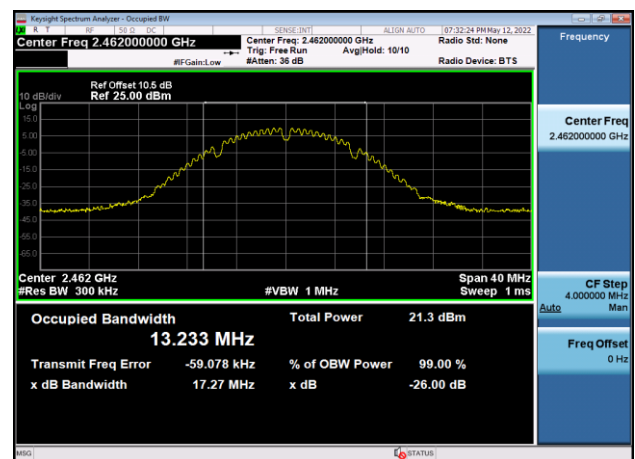
99% Bandwidth-802.11b,2437MHz,Ant7



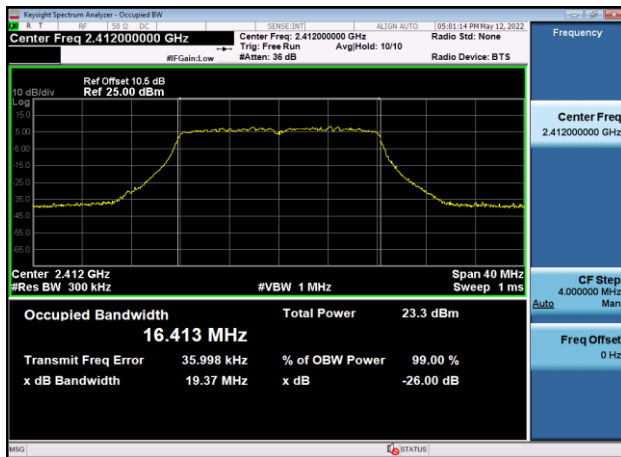
99% Bandwidth-802.11b,2462MHz,Ant9



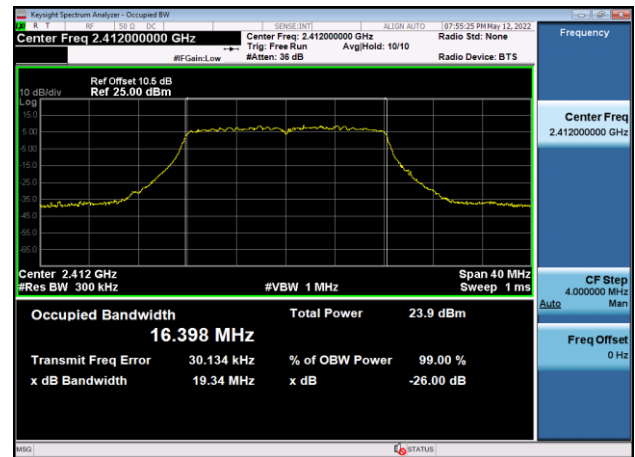
99% Bandwidth-802.11b,2462MHz,Ant7



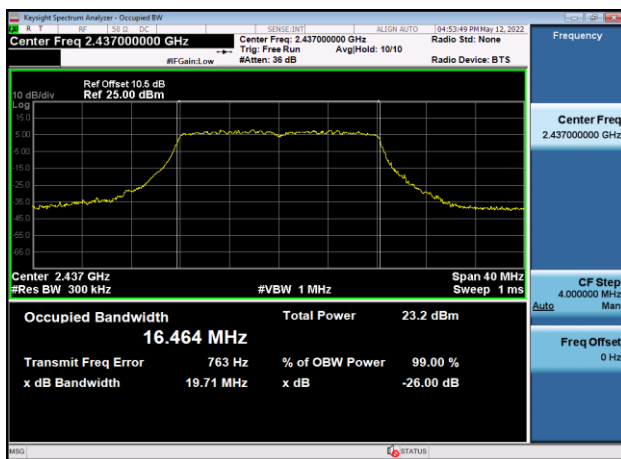
99% Bandwidth-802.11g,2412MHz,Ant9



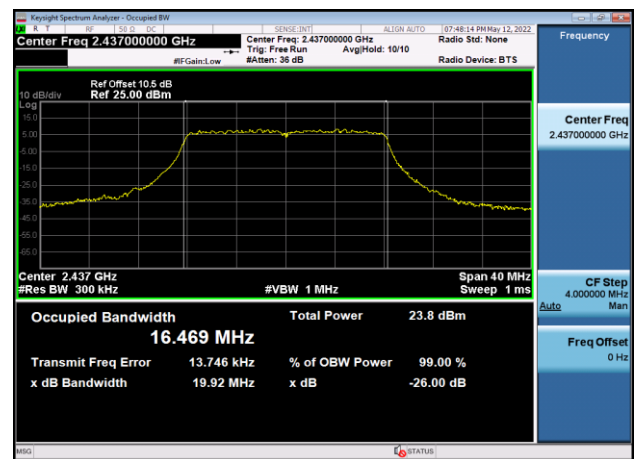
99% Bandwidth-802.11g,2412MHz,Ant7



99% Bandwidth-802.11g,2437MHz,Ant9



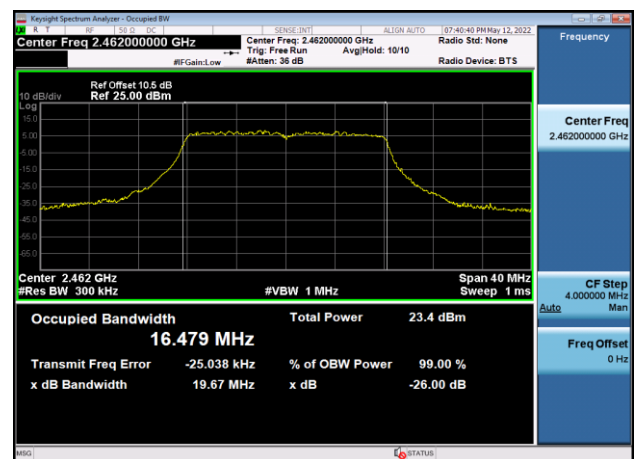
99% Bandwidth-802.11g,2437MHz,Ant7



99% Bandwidth-802.11g,2462MHz,Ant9

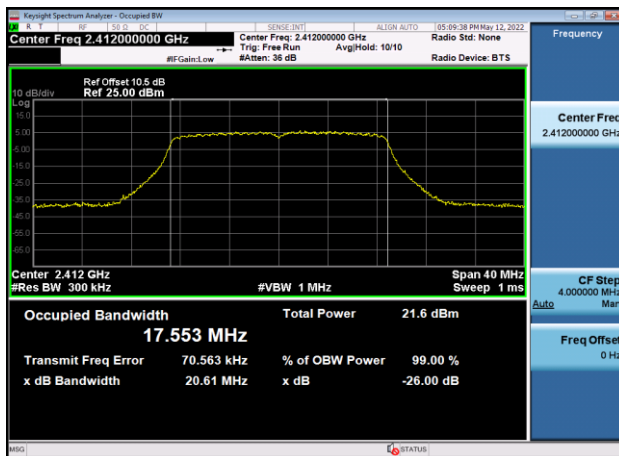


99% Bandwidth-802.11g,2462MHz,Ant7



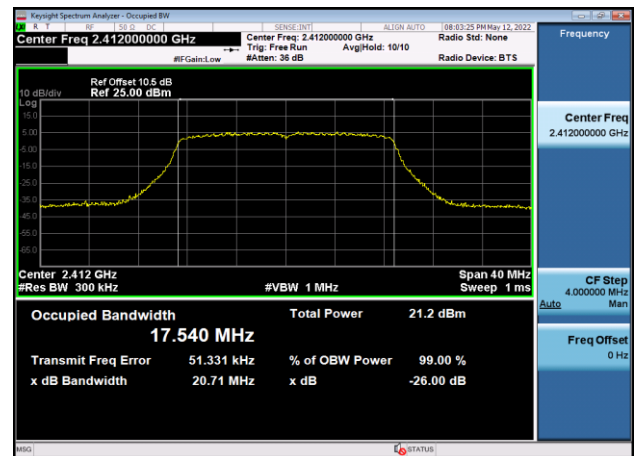
99% Bandwidth-802.11n(HT20),2412MHz

, Ant9



99% Bandwidth-802.11n(HT20),2412MHz

, Ant7



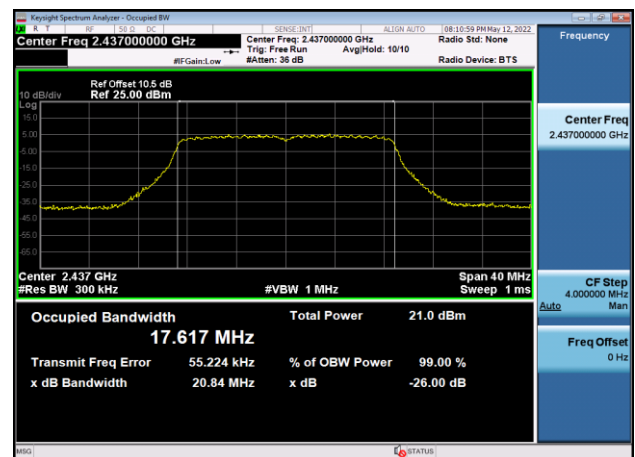
99% Bandwidth-802.11n(HT20),2437MHz

, Ant9



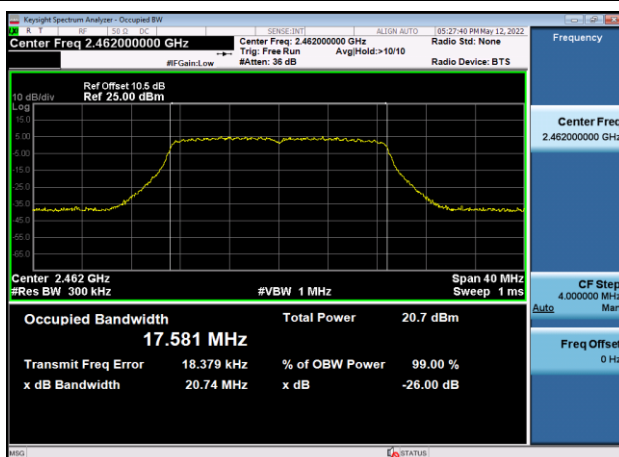
99% Bandwidth-802.11n(HT20),2437MHz

, Ant7



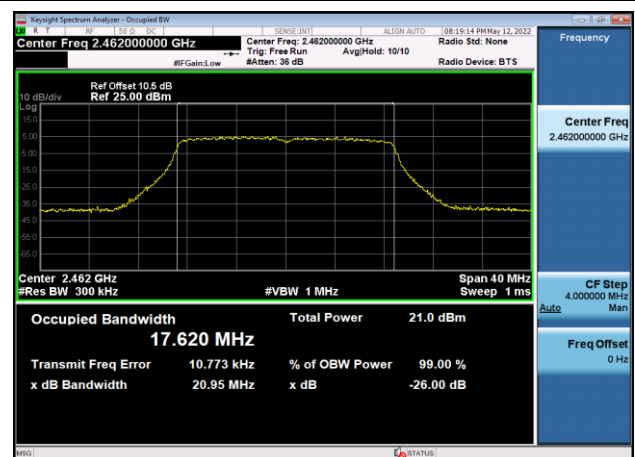
99% Bandwidth-802.11n(HT20),2462MHz

, Ant9

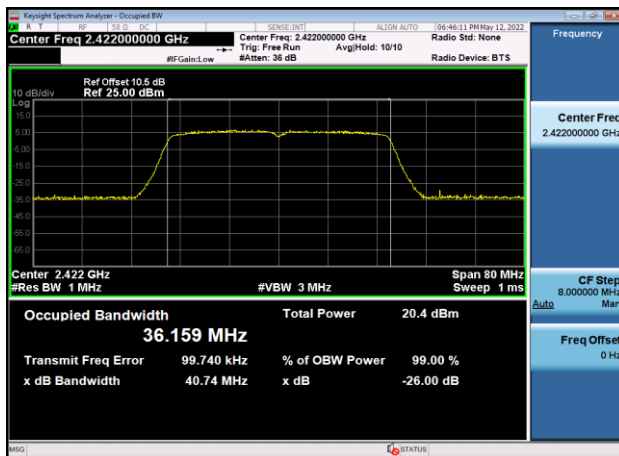


99% Bandwidth-802.11n(HT20),2462MHz

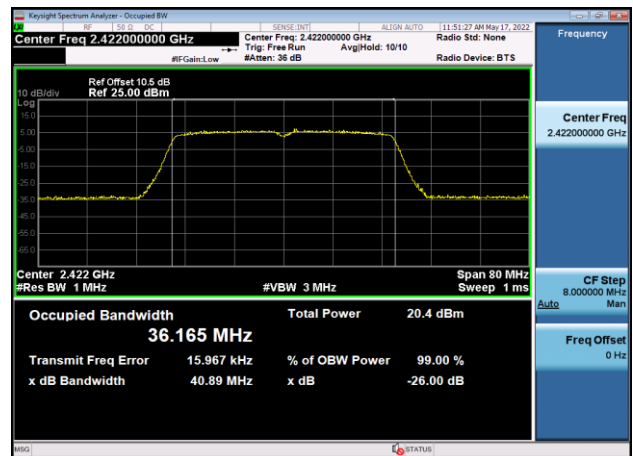
, Ant7



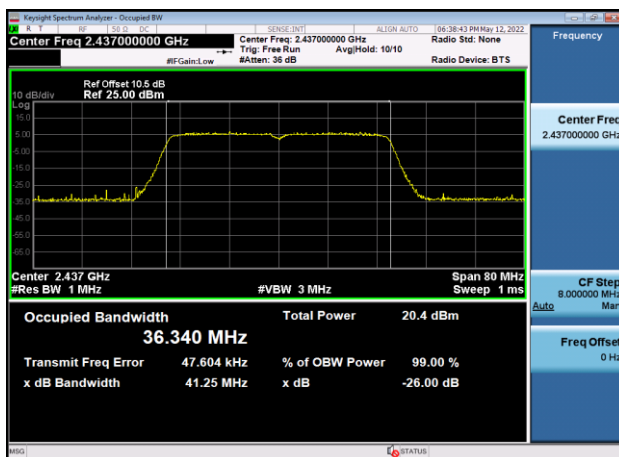
99% Bandwidth-802.11n(HT40),2422MHz
,Ant9



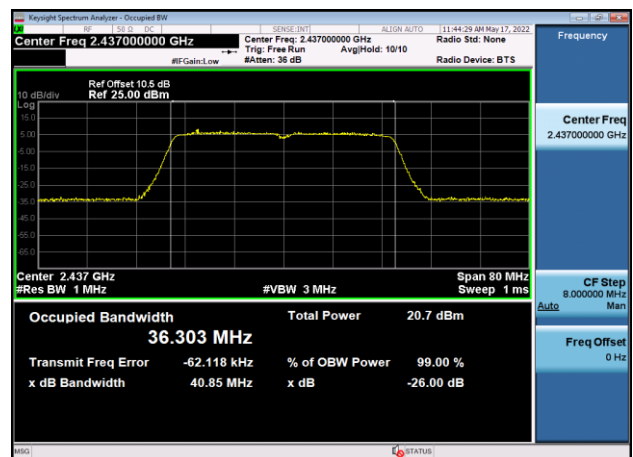
99% Bandwidth-802.11n(HT40),2422MHz
,Ant7



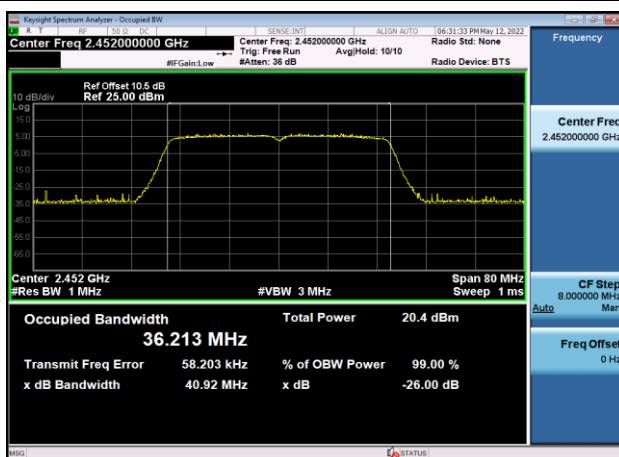
99% Bandwidth-802.11n(HT40),2437MHz
,Ant9



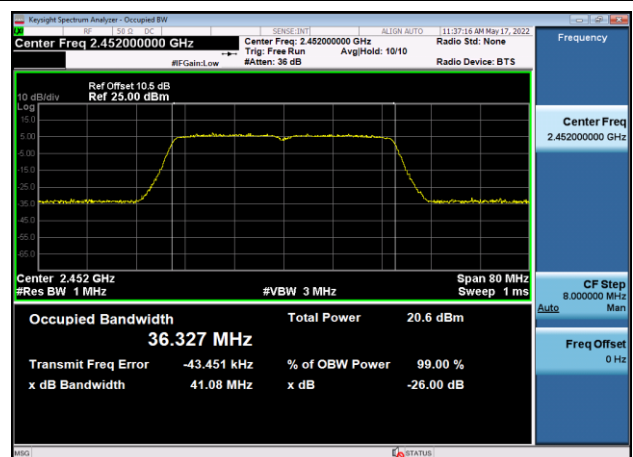
99% Bandwidth-802.11n(HT40),2437MHz
,Ant7



99% Bandwidth-802.11n(HT40),2452MHz
,Ant9

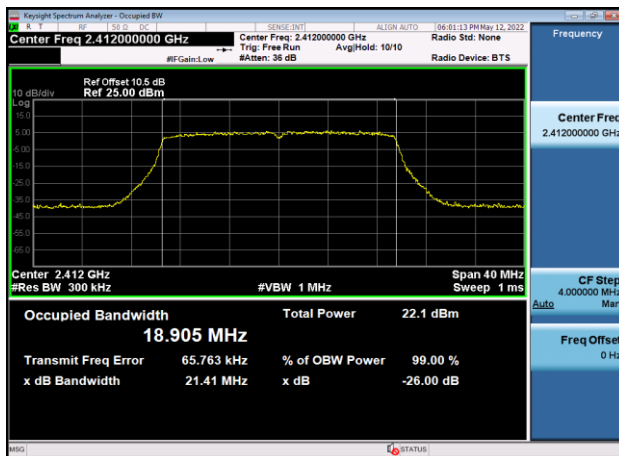


99% Bandwidth-802.11n(HT40),2452MHz
,Ant7



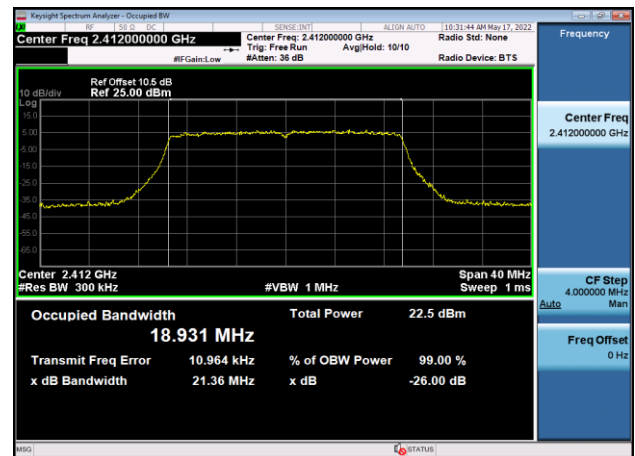
99% Bandwidth-802.11ax(HE20),2412MHz

, Ant9



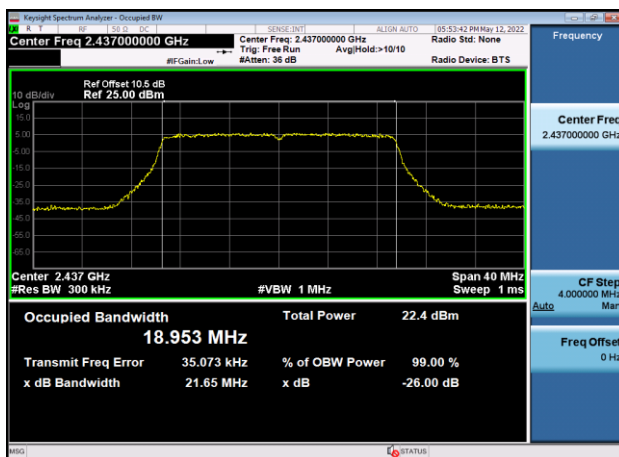
99% Bandwidth-802.11ax(HE20),2412MHz

, Ant7



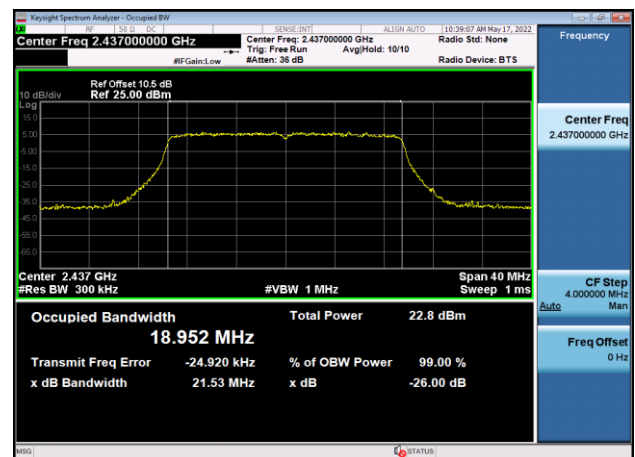
99% Bandwidth-802.11ax(HE20),2437MHz

, Ant9



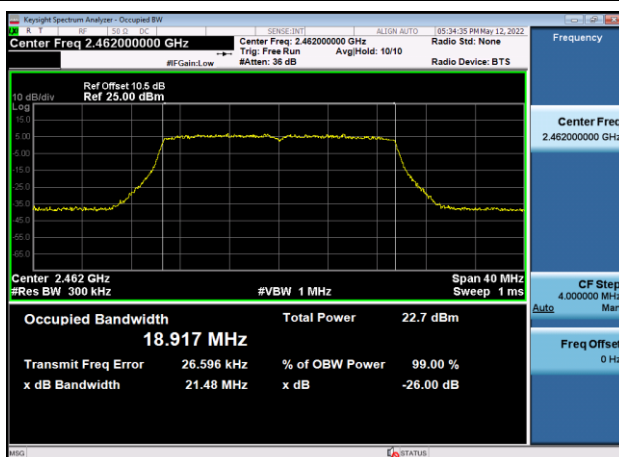
99% Bandwidth-802.11ax(HE20),2437MHz

, Ant7



99% Bandwidth-802.11ax(HE20),2462MHz

, Ant9



99% Bandwidth-802.11ax(HE20),2462MHz

, Ant7

