



RF TEST REPORT

Report No.: SET2022-03064

Product Name: Thermal Monocular

Model No. : C2w, Lahoux Spotter Mini, E3w; Lahoux Spotter Pro V

FCC ID: 2AYGT-20X

Applicant: IRay Techonology Co.,Ltd

Address: 11GUIYANG STREET, YANTAI ECONOMY AND TECHNOLOGY DEVELOPMENT DISTRICT, YANTAI SHANDONG P.R.CHINA

Dates of Testing: 02/20/2022 - 03/10/2022

Issued by: CCIC Southern Testing Co., Ltd.

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Test Report

Product Name.....: Thermal Monocular

Brand Name.....: InfiRay

Trade Name.....: InfiRay

Applicant.....: IRay Techonlogy Co.,Ltd

Applicant Address.....: 11GUIYANG STREET, YANTAI ECONOMY AND TECHNOLOGY DEVELOPMENT DISTRICT, YANTAI SHANDONG P.R.CHINA

Manufacturer.....: IRay Techonlogy Co.,Ltd

Manufacturer Address.....: 11GUIYANG STREET, YANTAI ECONOMY AND TECHNOLOGY DEVELOPMENT DISTRICT, YANTAI SHANDONG P.R.CHINA

Test Standards.....: 47 CFR Part 15 Subpart C 15.247
ANSI C63.10-2013

Test Result.....: PASS

Tested by: Sun 2022.04.02
Sun, Test Engineer

Reviewed by: Chris You 2022.04.02
Chris You, Senior Engineer

Approved by: Shuangwen Zhang 2022.04.02
ShuangwenZhang, Manager



TABLE OF CONTENTS

RF TEST REPORT 1

1. GENERAL INFORMATION 4

1.1. EUT Description 4

1.2. Test Standards and Results 5

1.3. Table for Supporting Units 6

1.4. EUT Operation Test Setup 6

1.5. Facilities and Accreditations 6

2. TEST REQUIREMENTS 7

2.1. Antenna requirement 7

2.2. Maximum Conducted Output Power 8

2.3. 6dB Occupied Bandwidth 9

2.4. Conducted Band Edges and Spurious Emissions 10

2.5. Power spectral density (PSD) 11

2.6. Radiated Band Edge and Spurious Emission 12

2.7. AC Power Line Conducted Emission 24

3. LIST OF MEASURING EQUIPMENT 28

4. UNCERTAINTY OF EVALUATION 29

APPENDIX A 30

Change History		
Issue	Date	Reason for change
1.0	2022.04.02	First edition

1. General Information

1.1. EUT Description

EUT Type	Thermal Monocular
Model No.	C2w, Lahoux Spotter Mini, E3w; Lahoux Spotter Pro V
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n (HT20)
Frequency Range	802.11b/g/n-20MHz: 2.412GHz - 2.462GHz
Channel Number	802.11b/g/n-20MHz: 11
Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 72.2Mbps
Modulation Type	DSSS (802.11b), OFDM (802.11g/n)
MIMO	Not support
Antenna Type	IPX External
Antenna Gain	3 dBi

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 objective of the report is to perform testing according to FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C	Radio Frequency Devices
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

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

No.	Section in CFR 47	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.247 (b)(3)	RF Output Power	PASS
3	15.247 (a)(2)	6dB Occupied Bandwidth	PASS
4	15.247 (d)	Conducted Band Edges and Spurious Emission	PASS
5	15.247 (e)	Power spectral density (PSD)	PASS
6	15.207	AC Power Line Conducted Emission	PASS
7	15.205 15.209 15.247 (d)	Radiated Band Edges and Spurious Emission	PASS

Note: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013. These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 v05r02.

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.

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 as Lowest, Middle and Highest channel.



Test Items	Mode	Data Rate	Channel
RF Conducted Output Power Power Spectral Density 6dB Bandwidth Conducted and Spurious Emission	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	MCS 0	1/6/11
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	MCS 0	1/11

1.3. Table for Supporting Units

Item	Instrument	Manufacturer	Model No.
1	Notebook	HP	TPN-Q221

1.4. EUT Operation Test Setup

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

1.5. Facilities and Accreditations

1.5.1. Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

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

CAB identifier: CN0064

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.

1.5.2. Test Environment Conditions

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

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

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.

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	Ant. Type	Operating frequency range	Ant. Gain
1	Thermal Monocular	IPX External	2412-2462MHz	3 dBi

2.1.3. Result: comply

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

2.2. Maximum Conducted Output Power

2.2.1. Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

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 Measurement Procedure 8.3 Method AVGSA of FCC KDB558074 D01 v05r02.
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. Set span to at least 1.5 times the OBW, set RBW = 1% to 5% of the OBW, not to exceed 1 MHz, set VBW $\geq [3 \times \text{RBW}]$.
5. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$, sweep time = auto, Detector = RMS.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Measure and record the results in the test report.

2.2.5. Test Result

Please refer to Appendix A for detail

2.3. 6dB Occupied Bandwidth

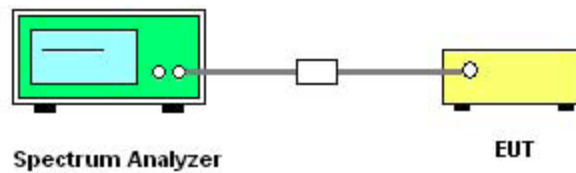
2.3.1. Limit of 6dB Bandwidth

The minimum 6 dB 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 FCC KDB558074 D01 v05r02.
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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. Measure and record the results in the test report.

2.3.5. Test Results of 6dB Bandwidth

Please refer to Appendix A for detail

2.4. Conducted Band Edges and Spurious Emissions

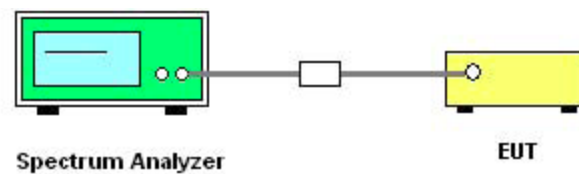
2.4.1. Limit of Conducted Band Edges and Spurious Emissions

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

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 Procedure

1. The testing follows FCC KDB558074 D01 v05r02.
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. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

2.4.5. Test Results of Conducted Band Edges

Please refer to Appendix A for detail

2.5. Power spectral density (PSD)

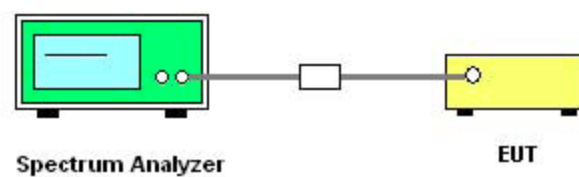
2.5.1. Limit of Power Spectral Density

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

2.5.2. Measuring Instruments

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

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows Measurement Procedure 8.4 Method AVGPSD of FCC KDB558074 D01 v05r02.
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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times the OBW.
5. Detector = RMS, Sweep time = auto couple, Trace mode = RMS.
6. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
7. Employ trace averaging (rms) mode over a minimum of 100 traces.
8. Use the peak marker function to determine the maximum power level.
9. Measure and record the results in the test report.

2.5.5. Test Results of Power spectral density

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 intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Note: Wireless charger configuration was evaluated.

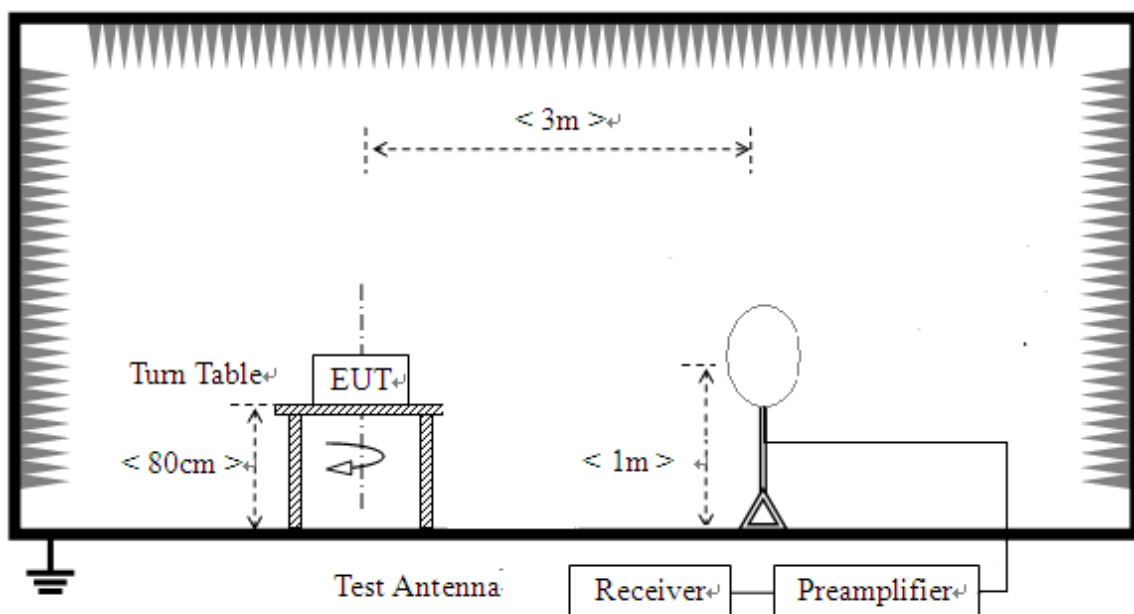
Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

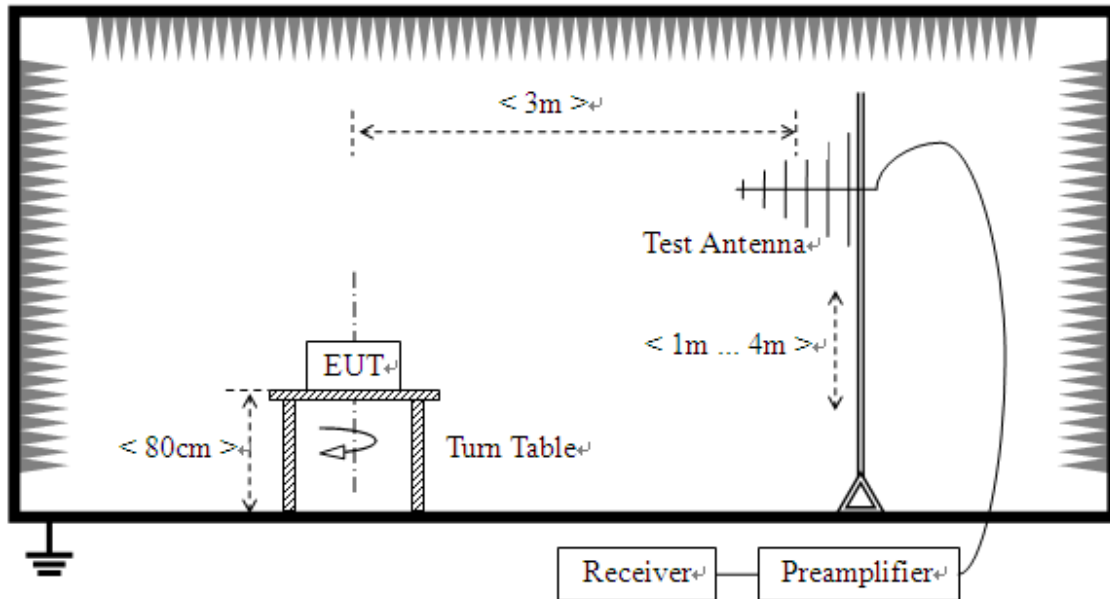
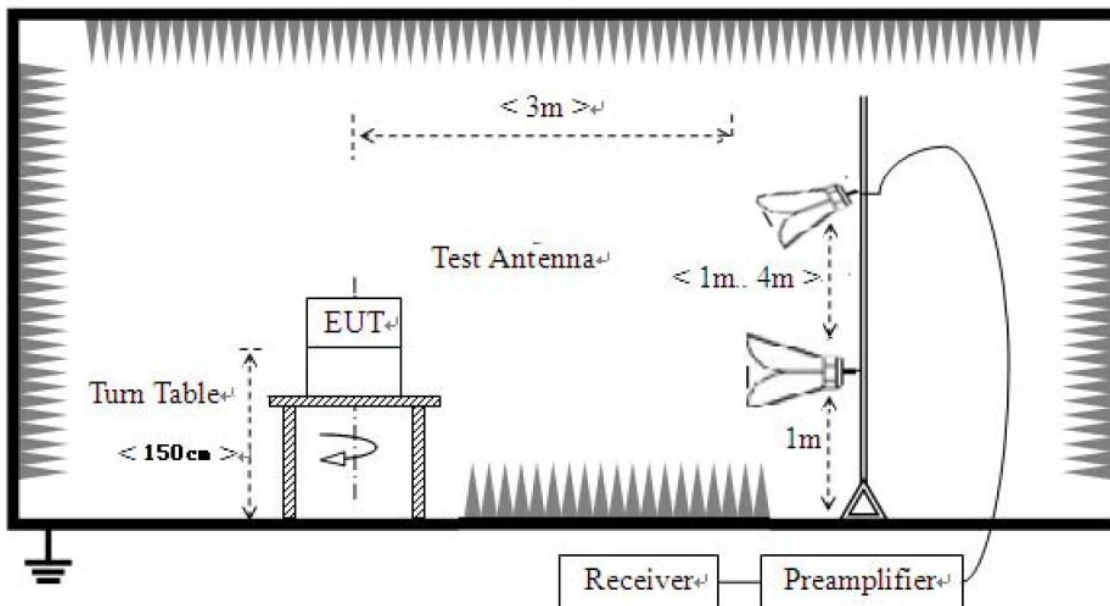
2.6.2. Measuring Instruments

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/1.5m for above 1GHz above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away 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:

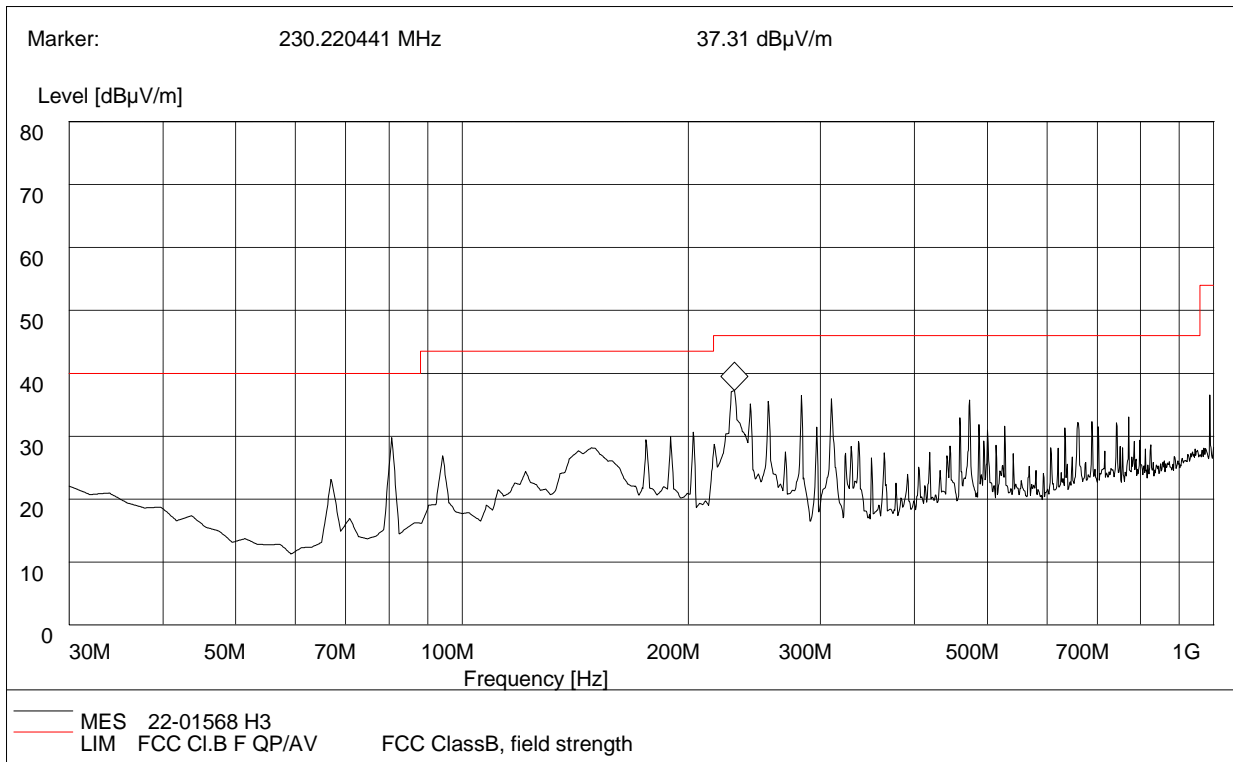
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution 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

For 9 kHz to 30MHz

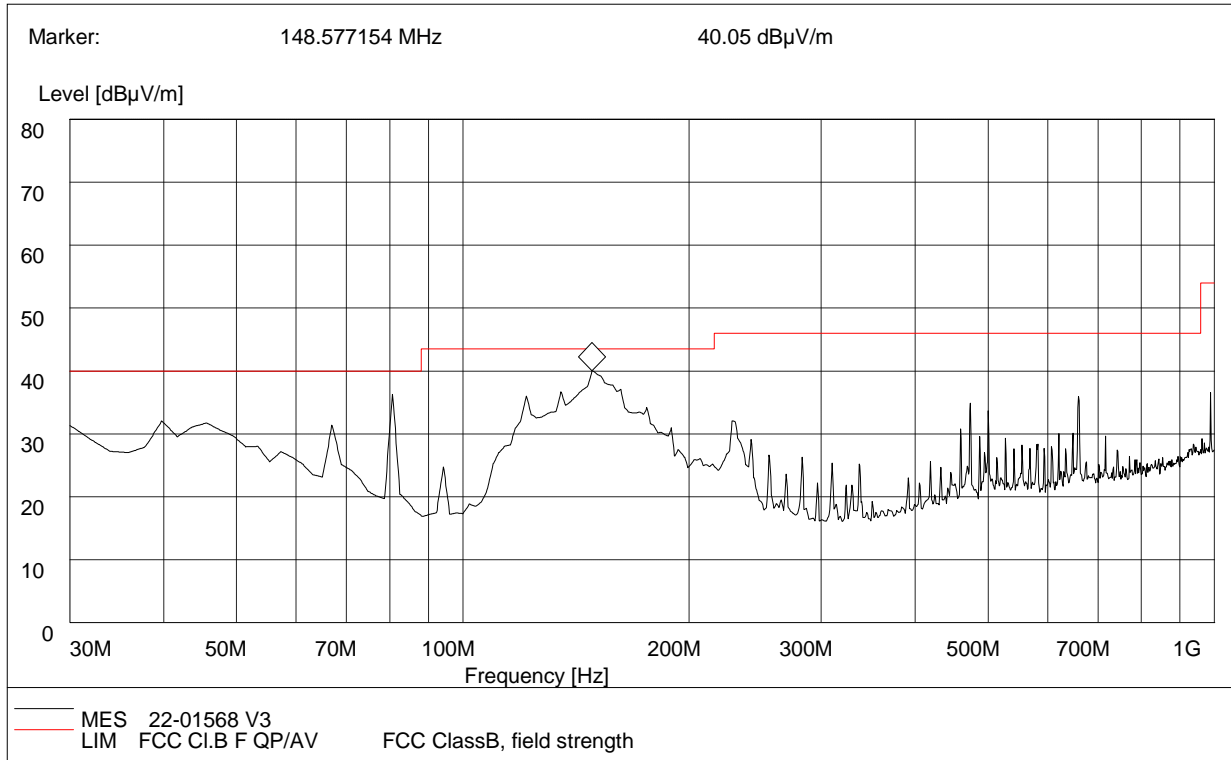
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Corr. Factor (dB/m)	Antenna height (cm)	Limit (dBµV/m)	Margin	Antenna	Verdict
80.540000	23.37	120.000	8.5	100.0	40.0	16.63	Horizontal	Pass
230.220000	35.32	120.000	11.7	100.0	46.0	10.68	Horizontal	Pass
255.490000	33.26	120.000	13.1	100.0	46.0	12.74	Horizontal	Pass
282.700000	33.95	120.000	15.0	115.0	46.0	12.05	Horizontal	Pass
309.910000	32.56	120.000	15.7	110.0	46.0	13.44	Horizontal	Pass
473.200000	32.13	120.000	18.9	120.0	46.0	13.87	Horizontal	Pass



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Corr. Factor (dB μ V/m)	Antenna height (cm)	Limit (dB μ V/m)	Margin	Antenna	Verdict
30.000000	29.62	120.000	19.3	100.0	40.0	10.38	Vertical	Pass
66.930000	29.20	120.000	6.1	100.0	40.0	10.80	Vertical	Pass
80.540000	34.36	120.000	8.5	100.0	40.0	5.64	Vertical	Pass
121.360000	34.02	120.000	12.3	100.0	43.5	9.48	Vertical	Pass
148.570000	38.31	120.000	12.6	120.0	43.5	5.19	Vertical	Pass
162.180000	35.28	120.000	12.5	120.0	43.5	8.22	Vertical	Pass

REMARKS:

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 25 GHz

2.4G Wi-Fi 802.11b_2412MHz									
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	45.20	74.00	-28.80	1.40	160	43.90	1.30	Horizontal	Peak
2390.00	38.65	54.00	-15.35	1.40	160	37.35	1.30	Horizontal	Average
4824.00	44.79	74.00	-29.21	1.40	160	38.39	6.40	Horizontal	Peak
4824.00	39.68	54.00	-14.32	1.40	160	33.28	6.40	Horizontal	Average
7236.00	48.36	74.00	-25.64	1.40	160	37.86	10.50	Horizontal	Peak
7236.00	41.39	54.00	-12.61	1.40	160	30.89	10.50	Horizontal	Average
2390.00	45.39	74.00	-28.61	1.50	140	44.09	1.30	Vertical	Peak
2390.00	38.65	54.00	-15.35	1.50	140	37.35	1.30	Vertical	Average
4824.00	45.64	74.00	-28.36	1.50	140	39.24	6.40	Vertical	Peak
4824.00	39.60	54.00	-14.40	1.50	140	33.20	6.40	Vertical	Average
7236.00	50.35	74.00	-23.65	1.50	140	39.85	10.50	Vertical	Peak
7236.00	42.83	54.00	-11.17	1.50	140	32.33	10.50	Vertical	Average

2.4G Wi-Fi 802.11b_2437MHz									
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	45.14	74.00	-28.86	1.40	160	39.34	5.80	Horizontal	Peak
4874.00	40.01	54.00	-13.99	1.40	160	34.21	5.80	Horizontal	Average
7311.00	47.88	74.00	-26.12	1.40	160	37.08	10.80	Horizontal	Peak
7311.00	40.93	54.00	-13.07	1.40	160	30.13	10.80	Horizontal	Average
4874.00	45.90	74.00	-28.10	1.50	140	40.10	5.80	Vertical	Peak
4874.00	39.31	54.00	-14.69	1.50	140	33.51	5.80	Vertical	Average
7311.00	50.14	74.00	-23.86	1.50	140	39.34	10.80	Vertical	Peak
7311.00	42.47	54.00	-11.53	1.50	140	31.67	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**

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	46.15	74.00	-27.85	1.40	160	44.55	1.60	Horizontal	Peak
2483.50	36.71	54.00	-17.29	1.40	160	35.11	1.60	Horizontal	Average
4924.00	46.31	74.00	-27.69	1.40	160	40.61	5.70	Horizontal	Peak
4924.00	39.92	54.00	-14.08	1.40	160	34.22	5.70	Horizontal	Average
7386.00	46.82	74.00	-27.18	1.40	160	36.02	10.80	Horizontal	Peak
7386.00	41.32	54.00	-12.68	1.40	160	30.52	10.80	Horizontal	Average
2483.50	46.92	74.00	-27.08	1.50	140	45.32	1.60	Vertical	Peak
2483.50	36.57	54.00	-17.43	1.50	140	34.97	1.60	Vertical	Average
4924.00	44.43	74.00	-29.57	1.50	140	38.73	5.70	Vertical	Peak
4924.00	39.81	54.00	-14.19	1.50	140	34.11	5.70	Vertical	Average
7386.00	46.30	74.00	-27.70	1.50	140	35.50	10.80	Vertical	Peak
7386.00	41.41	54.00	-12.59	1.50	140	30.61	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_2412MHz									
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	45.44	74.00	-28.56	1.40	160	44.14	1.30	Horizontal	Peak
2390.00	38.19	54.00	-15.81	1.40	160	36.89	1.30	Horizontal	Average
4824.00	44.49	74.00	-29.51	1.40	160	38.09	6.40	Horizontal	Peak
4824.00	39.18	54.00	-14.82	1.40	160	32.78	6.40	Horizontal	Average
7236.00	48.05	74.00	-25.95	1.40	160	37.55	10.50	Horizontal	Peak
7236.00	40.93	54.00	-13.07	1.40	160	30.43	10.50	Horizontal	Average
2390.00	45.58	74.00	-28.42	1.50	140	44.28	1.30	Vertical	Peak
2390.00	38.42	54.00	-15.58	1.50	140	37.12	1.30	Vertical	Average
4824.00	45.29	74.00	-28.71	1.50	140	38.89	6.40	Vertical	Peak
4824.00	39.16	54.00	-14.84	1.50	140	32.76	6.40	Vertical	Average
7236.00	50.02	74.00	-23.98	1.50	140	39.52	10.50	Vertical	Peak
7236.00	42.35	54.00	-11.65	1.50	140	31.85	10.50	Vertical	Average

2.4G Wi-Fi 802.11g_2437MHz									
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	45.26	74.00	-28.74	1.40	160	39.46	5.80	Horizontal	Peak
4874.00	39.91	54.00	-14.09	1.40	160	34.11	5.80	Horizontal	Average
7311.00	48.18	74.00	-25.82	1.40	160	37.38	10.80	Horizontal	Peak
7311.00	41.33	54.00	-12.67	1.40	160	30.53	10.80	Horizontal	Average
4874.00	46.20	74.00	-27.80	1.50	140	40.40	5.80	Vertical	Peak
4874.00	39.42	54.00	-14.58	1.50	140	33.62	5.80	Vertical	Average
7311.00	50.16	74.00	-23.84	1.50	140	39.36	10.80	Vertical	Peak
7311.00	42.15	54.00	-11.85	1.50	140	31.35	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**

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	46.33	74.00	-27.67	1.40	160	44.73	1.60	Horizontal	Peak
2483.50	36.99	54.00	-17.01	1.40	160	35.39	1.60	Horizontal	Average
4924.00	46.61	74.00	-27.39	1.40	160	40.91	5.70	Horizontal	Peak
4924.00	40.02	54.00	-13.98	1.40	160	34.32	5.70	Horizontal	Average
7386.00	46.59	74.00	-27.41	1.40	160	35.79	10.80	Horizontal	Peak
7386.00	41.58	54.00	-12.42	1.40	160	30.78	10.80	Horizontal	Average
2483.50	46.87	74.00	-27.13	1.50	140	45.27	1.60	Vertical	Peak
2483.50	36.13	54.00	-17.87	1.50	140	34.53	1.60	Vertical	Average
4924.00	44.16	74.00	-29.84	1.50	140	38.46	5.70	Vertical	Peak
4924.00	40.03	54.00	-13.97	1.50	140	34.33	5.70	Vertical	Average
7386.00	46.31	74.00	-27.69	1.50	140	35.51	10.80	Vertical	Peak
7386.00	41.80	54.00	-12.20	1.50	140	31.00	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_2412MHz									
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	45.56	74.00	-28.44	1.40	160	44.26	1.30	Horizontal	Peak
2390.00	38.04	54.00	-15.96	1.40	160	36.74	1.30	Horizontal	Average
4824.00	44.94	74.00	-29.06	1.40	160	38.54	6.40	Horizontal	Peak
4824.00	39.36	54.00	-14.64	1.40	160	32.96	6.40	Horizontal	Average
7236.00	48.20	74.00	-25.80	1.40	160	37.70	10.50	Horizontal	Peak
7236.00	40.79	54.00	-13.21	1.40	160	30.29	10.50	Horizontal	Average
2390.00	45.28	74.00	-28.72	1.50	140	43.98	1.30	Vertical	Peak
2390.00	38.83	54.00	-15.17	1.50	140	37.53	1.30	Vertical	Average
4824.00	45.57	74.00	-28.43	1.50	140	39.17	6.40	Vertical	Peak
4824.00	39.35	54.00	-14.65	1.50	140	32.95	6.40	Vertical	Average
7236.00	49.54	74.00	-24.46	1.50	140	39.04	10.50	Vertical	Peak
7236.00	42.14	54.00	-11.86	1.50	140	31.64	10.50	Vertical	Average

2.4G Wi-Fi 802.11n-HT20_2437MHz									
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	44.81	74.00	-29.19	1.40	160	39.01	5.80	Horizontal	Peak
4874.00	40.18	54.00	-13.82	1.40	160	34.38	5.80	Horizontal	Average
7311.00	47.85	74.00	-26.15	1.40	160	37.05	10.80	Horizontal	Peak
7311.00	41.72	54.00	-12.28	1.40	160	30.92	10.80	Horizontal	Average
4874.00	46.45	74.00	-27.55	1.50	140	40.65	5.80	Vertical	Peak
4874.00	39.08	54.00	-14.92	1.50	140	33.28	5.80	Vertical	Average
7311.00	50.56	74.00	-23.44	1.50	140	39.76	10.80	Vertical	Peak
7311.00	41.91	54.00	-12.09	1.50	140	31.11	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 802.11n-HT20_2462MHz**

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	46.78	74.00	-27.22	1.40	160	45.18	1.60	Horizontal	Peak
2483.50	36.75	54.00	-17.25	1.40	160	35.15	1.60	Horizontal	Average
4924.00	46.32	74.00	-27.68	1.40	160	40.62	5.70	Horizontal	Peak
4924.00	39.98	54.00	-14.02	1.40	160	34.28	5.70	Horizontal	Average
7386.00	46.23	74.00	-27.77	1.40	160	35.43	10.80	Horizontal	Peak
7386.00	41.80	54.00	-12.20	1.40	160	31.00	10.80	Horizontal	Average
2483.50	46.85	74.00	-27.15	1.50	140	45.25	1.60	Vertical	Peak
2483.50	36.54	54.00	-17.46	1.50	140	34.94	1.60	Vertical	Average
4924.00	44.14	74.00	-29.86	1.50	140	38.44	5.70	Vertical	Peak
4924.00	40.19	54.00	-13.81	1.50	140	34.49	5.70	Vertical	Average
7386.00	46.48	74.00	-27.52	1.50	140	35.68	10.80	Vertical	Peak
7386.00	42.20	54.00	-11.80	1.50	140	31.40	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.

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

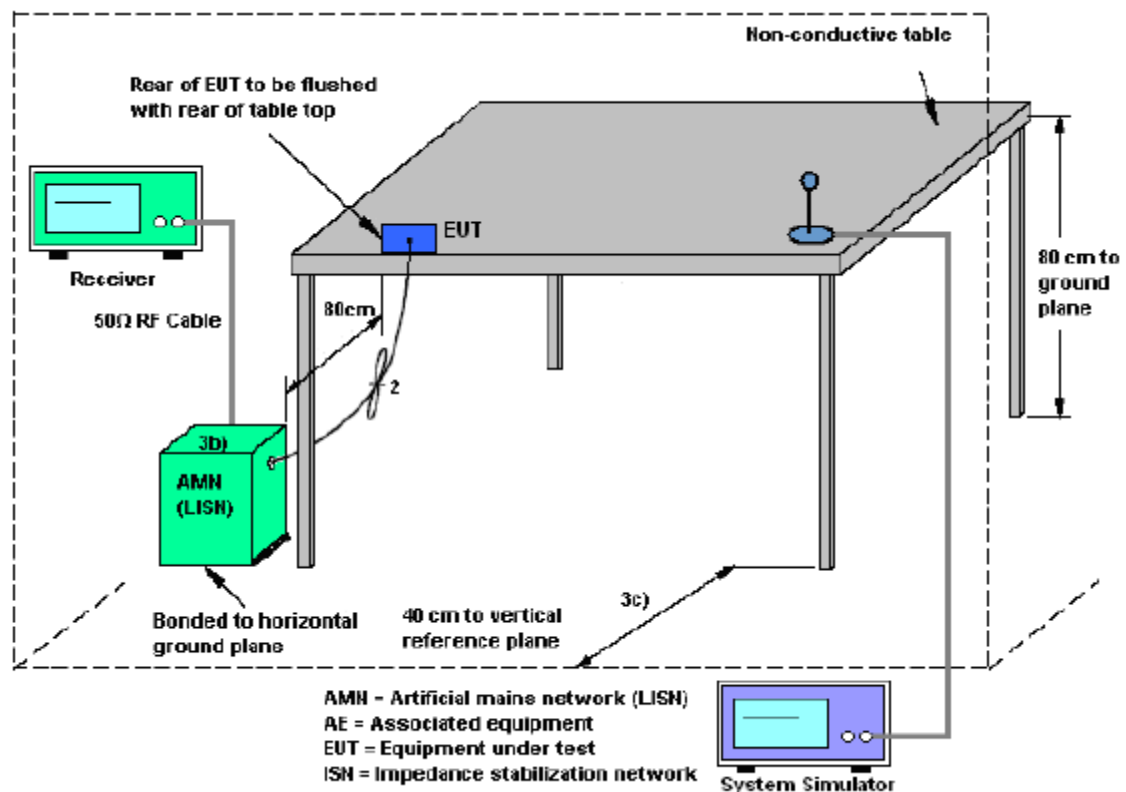
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

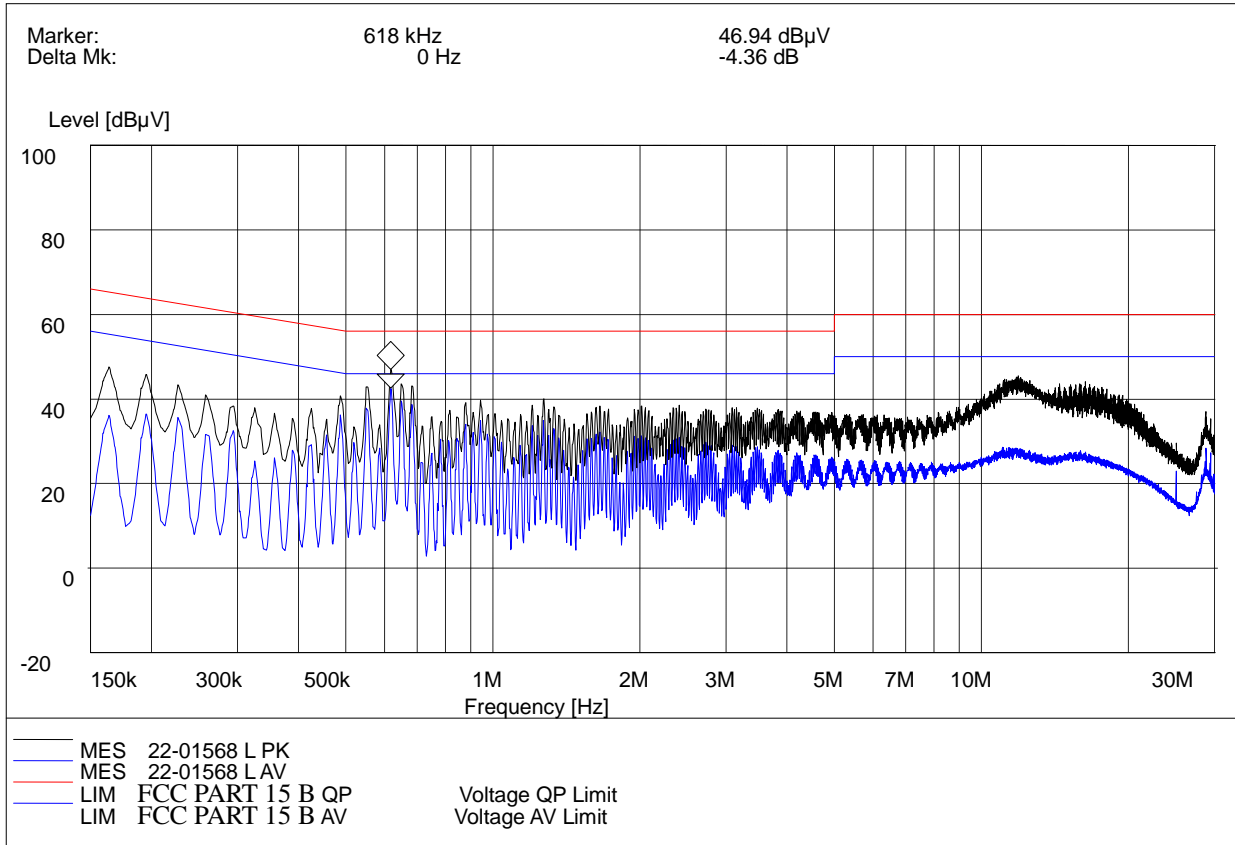


2.7.4. Test Procedures

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

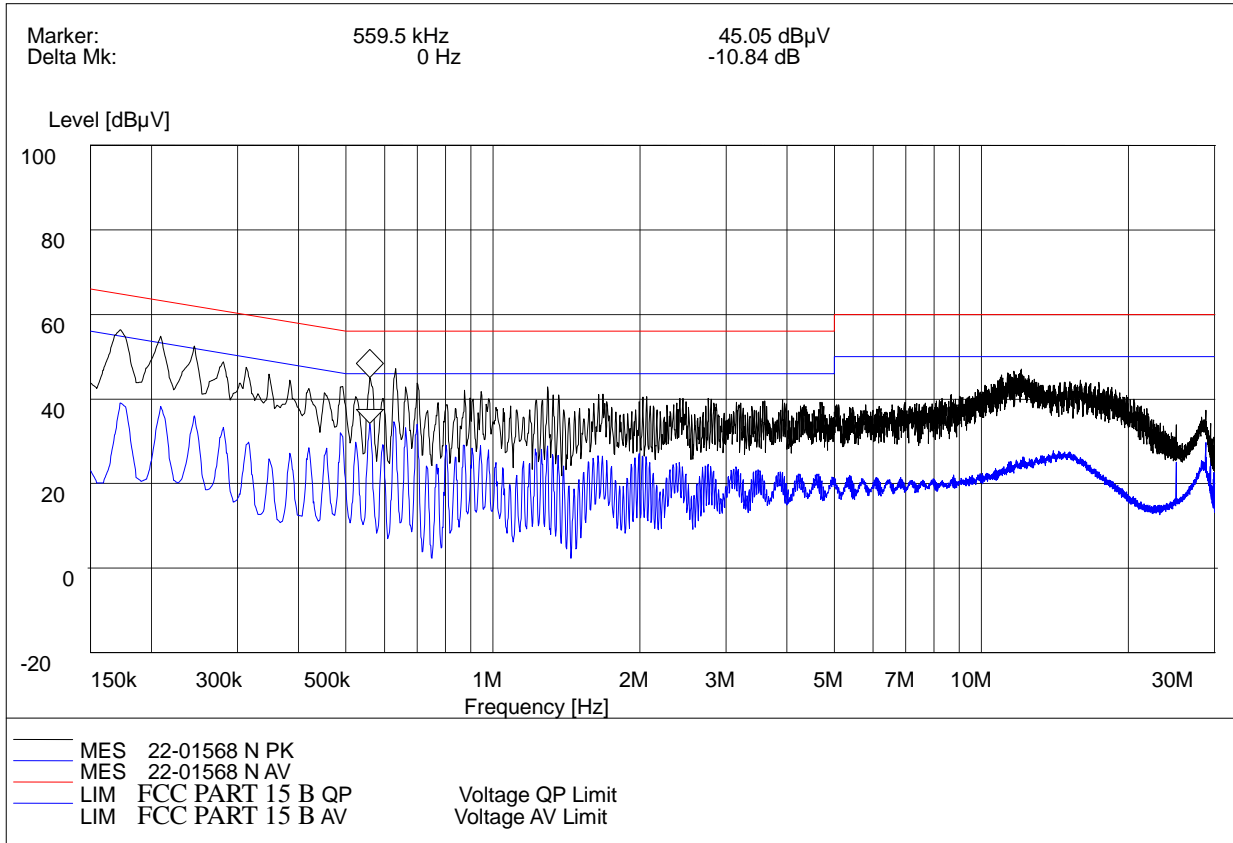
1. The EUT configuration of the emission tests is WLAN Link + USB Cable (Charging from Adapter)



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dB µ V)	CAverage (dB µ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB µ V)	Margin - AV (dB)	Limit - AV (dB µ V)
0.163500	41.69	32.46	0.2	10.2	23.61	65.3	22.84	55.3
0.195000	38.76	32.43	0.2	10.2	25.04	63.8	21.37	53.8
0.487500	38.50	34.35	0.2	10.2	17.70	56.2	11.85	46.2
0.550500	42.53	38.40	0.2	10.2	13.47	56.0	7.60	46.0
0.618000	42.57	37.25	0.2	10.2	13.43	56.0	8.75	46.0
0.649500	38.75	33.94	0.2	10.2	17.25	56.0	12.06	46.0

Note: Correction factor=Cabel loss+ attenuation factor
 attenuation factor=10dB



(Plot B: N Phase)

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.172500	46.50	30.46	0.2	10.2	18.30	64.8	24.34	54.8
0.208500	40.96	25.72	0.2	10.2	22.34	63.3	27.58	53.3
0.244500	36.63	22.21	0.2	10.2	25.27	61.9	29.69	51.9
0.559500	36.98	27.78	0.2	10.2	19.02	56.0	18.22	46.0
0.631500	25.03	13.88	0.2	10.2	30.97	56.0	32.12	46.0
0.699000	21.03	8.43	0.2	10.2	34.97	56.0	37.57	46.0

Note: Correction factor=Cabel loss+ attenuation factor
 attenuation factor=10dB

Test Result : Pass



3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI TEST RECEIVER	KEYSIGHT	N9038A	A141202036	2021.08.05	2022.08.04
2	Power Meter	R&S	NRP-Z31	A141001975	2021.05.10	2022.05.09
3	TURNTABLE	ETS	2088	2149	N/A	N/A
4	ANTENNA MAST	ETS	2075	2346	N/A	N/A
5	EMI TEST Software	R&S	ESK1	N/A	N/A	N/A
6	Horn antenna (18GHz~26.5GHz)	AR	AT4003A	A0329293	2021.09.05	2022.09.04
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-1000	A140101634	2021.12.24	2022.12.23
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2021.12.24	2022.12.23
9	High pass filter	Compliance Direction systems	BSU-6	34202	2021.11.09	2022.11.08
10	Horn Antenna	R&S	HF906	A0304225	2019.04.17	2022.04.16
11	Horn Antenna	R&S	ESIB7	A0501375	2020.06.24	2022.06.22
12	ULTRA-BROADBAND ANTENNA	SCHWARZBEC K	VULB9160	A0805560	2019.05.24	2022.05.23
13	Passive Loop Antenna	R&S	HFH2-Z2	A0304220	2019.04.26	2022.04.25
14	Temperature chamber	TABAI	PS-232	A8708054	2021.09.29	2022.09.28
15	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2021.04.26	2022.04.25
16	Power Supply	R&S	ESIB26	A0304218	2021.12.27	2022.12.26
17	LISN	ROHDE&SCH WARZ	ENV216	A140701847	2021.08.11	2022.08.10
18	Test software	ECIT	Eagle	V2.0	N/A	N/A



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 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 (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
--	-------



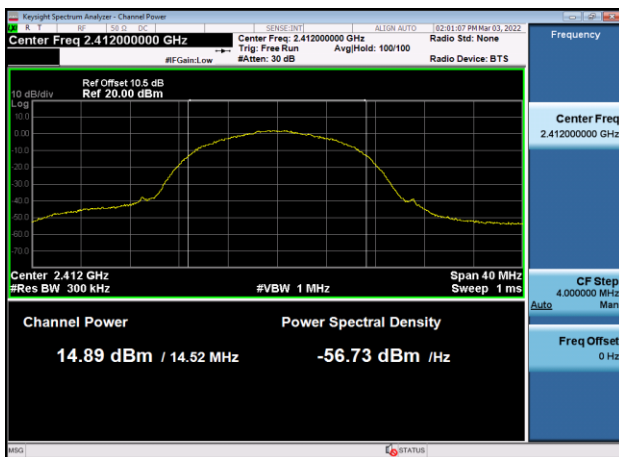
Appendix A

RF Output Power

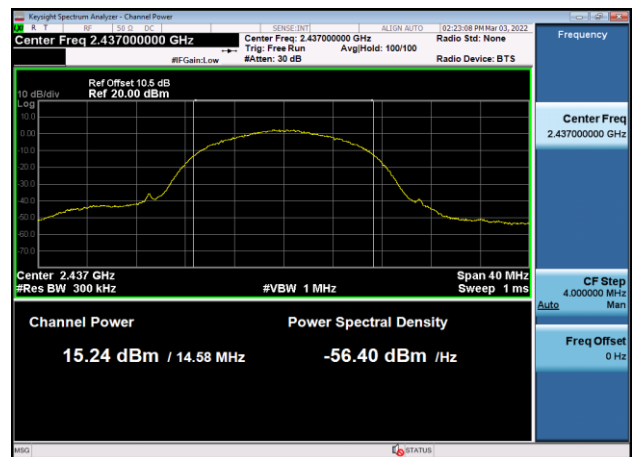
Test Result and Data

Conducted Output Power				
Mode	Test Frequency (MHz)	Max Conducted Output Power (dBm)	Limit (dBm)	Result
802.11b	2412	14.89	30	Pass
802.11b	2437	15.24	30	Pass
802.11b	2462	15.37	30	Pass
802.11g	2412	13.75	30	Pass
802.11g	2437	13.92	30	Pass
802.11g	2462	14.21	30	Pass
802.11n (HT20)	2412	12.56	30	Pass
802.11n (HT20)	2437	12.86	30	Pass
802.11n (HT20)	2462	12.91	30	Pass

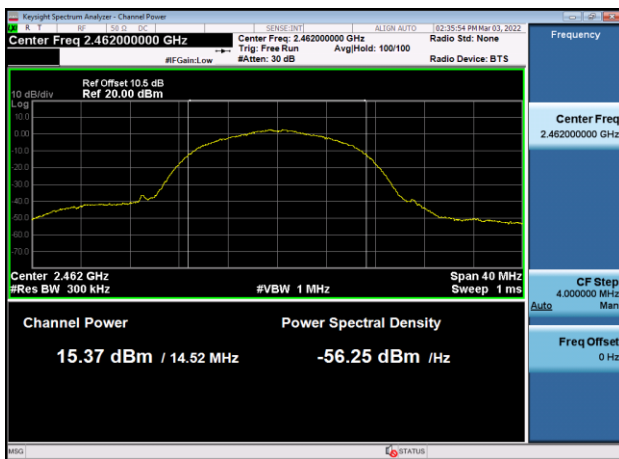
Output Power-802.11b,2412MHz,Ant0



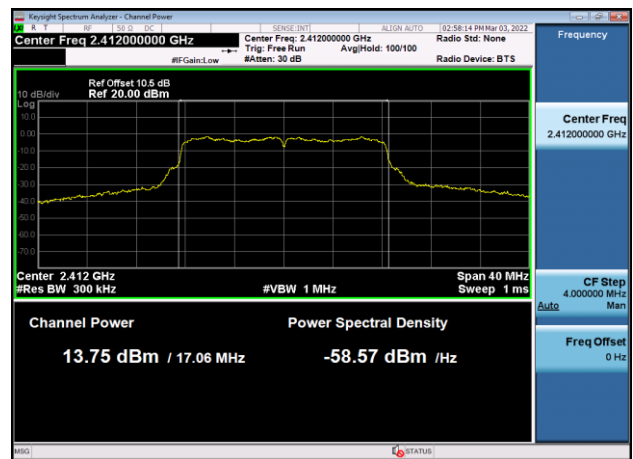
Output Power-802.11b,2437MHz,Ant0



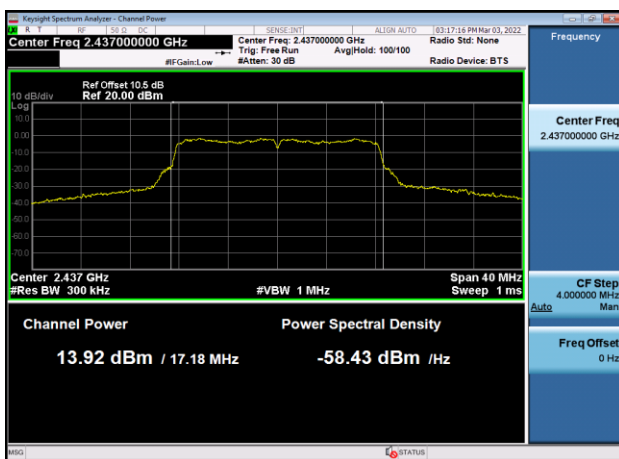
Output Power-802.11b,2462MHz,Ant0



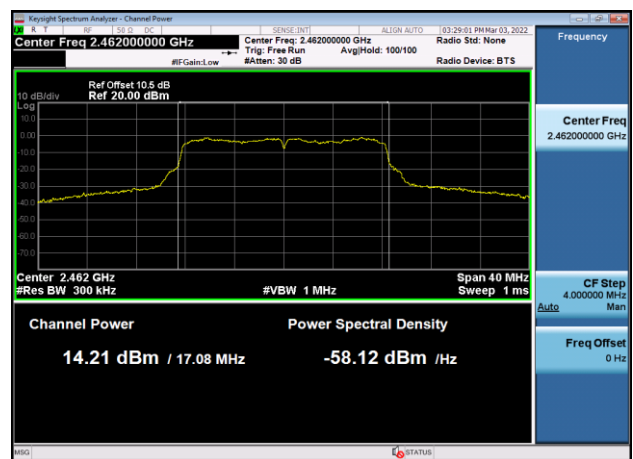
Output Power-802.11g,2412MHz,Ant0



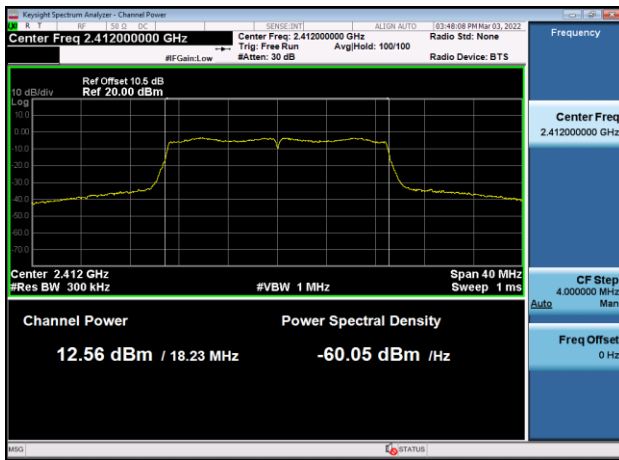
Output Power-802.11g,2437MHz,Ant0



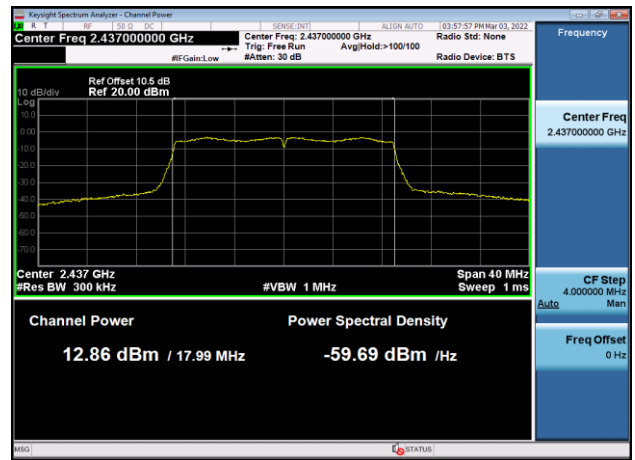
Output Power-802.11g,2462MHz,Ant0



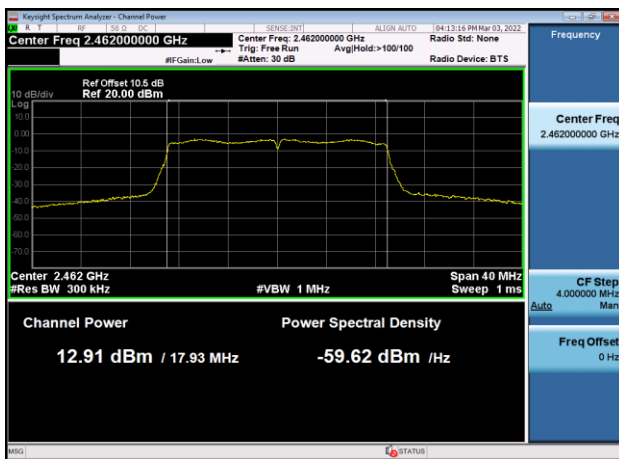
Output Power-802.11n(HT20),2412MHz
,Ant0



Output Power-802.11n(HT20),2437MHz
,Ant0



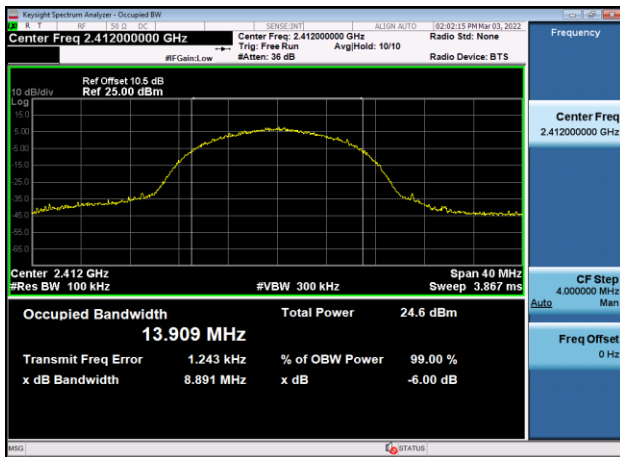
Output Power-802.11n(HT20),2462MHz
,Ant0



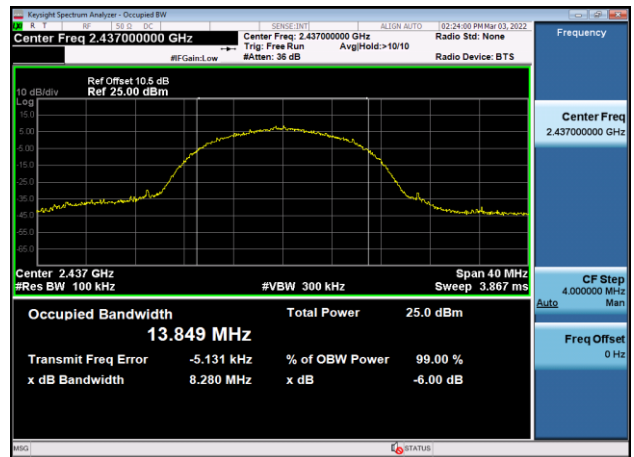
**6dB Bandwidth
Test Result and Data**

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (KHz)	Result
802.11b	2412	8.89	500	Pass
802.11b	2437	8.28	500	Pass
802.11b	2462	8.93	500	Pass
802.11g	2412	16.38	500	Pass
802.11g	2437	16.40	500	Pass
802.11g	2462	16.40	500	Pass
802.11n (HT20)	2412	16.70	500	Pass
802.11n (HT20)	2437	16.53	500	Pass
802.11n (HT20)	2462	16.77	500	Pass

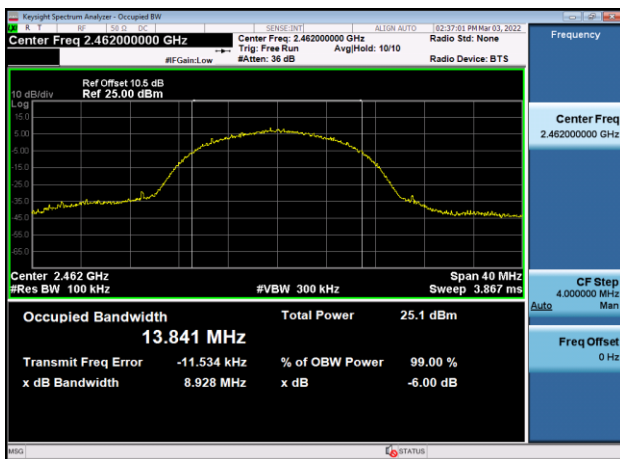
6dB Bandwidth-802.11b,2412MHz,Ant0



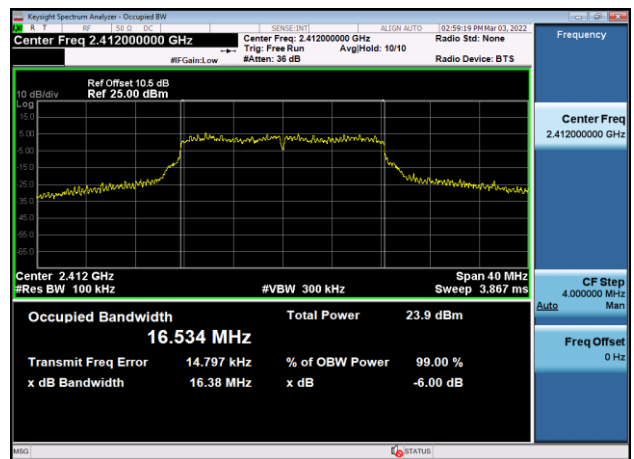
6dB Bandwidth-802.11b,2437MHz,Ant0



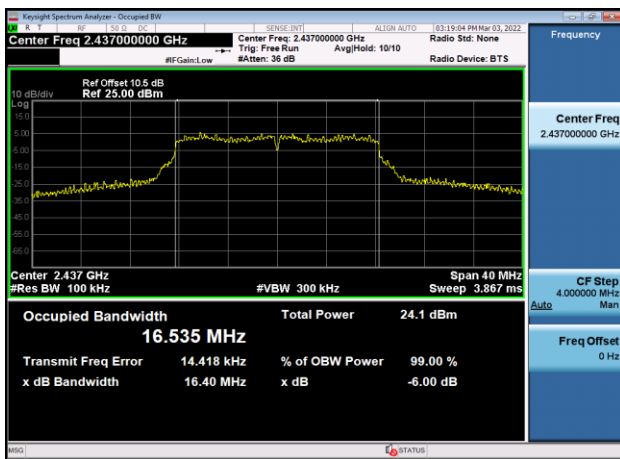
6dB Bandwidth-802.11b,2462MHz,Ant0



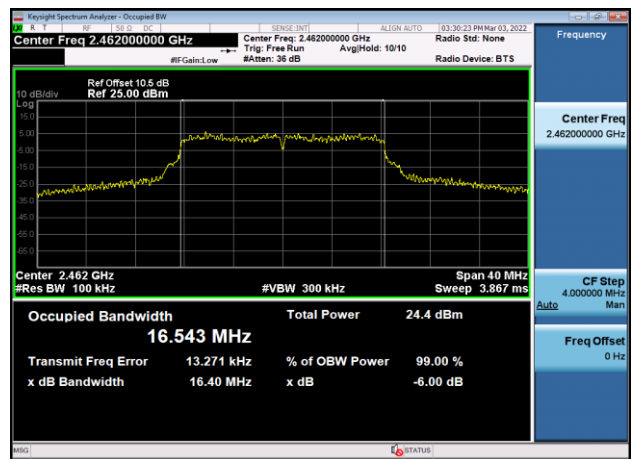
6dB Bandwidth-802.11g,2412MHz,Ant0



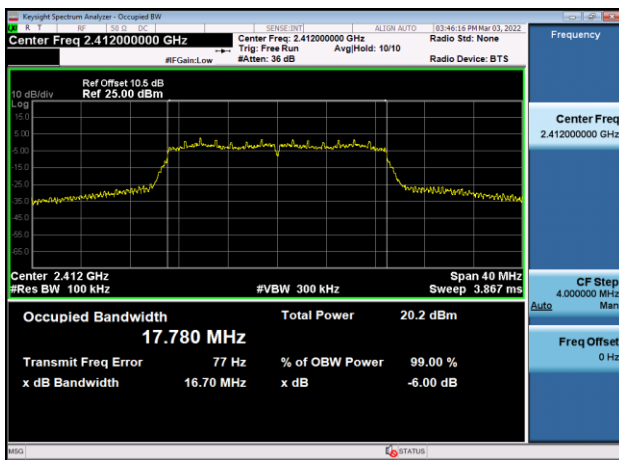
6dB Bandwidth-802.11g,2437MHz,Ant0



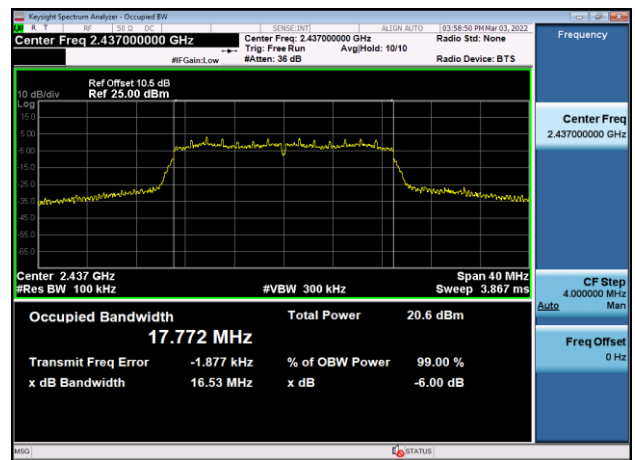
6dB Bandwidth-802.11g,2462MHz,Ant0



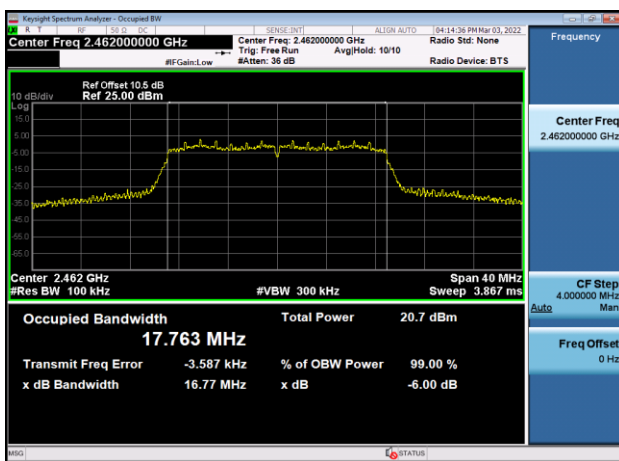
6dB Bandwidth-802.11n(HT20),2412MHz
,Ant0



6dB Bandwidth-802.11n(HT20),2437MHz
,Ant0



6dB Bandwidth-802.11n(HT20),2462MHz
,Ant0



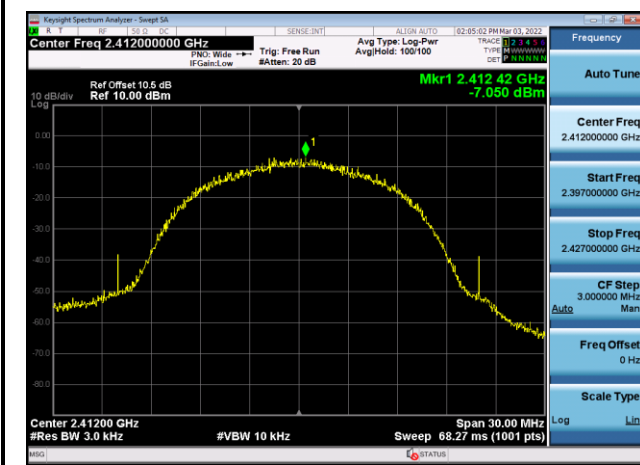


Power Spectral Density

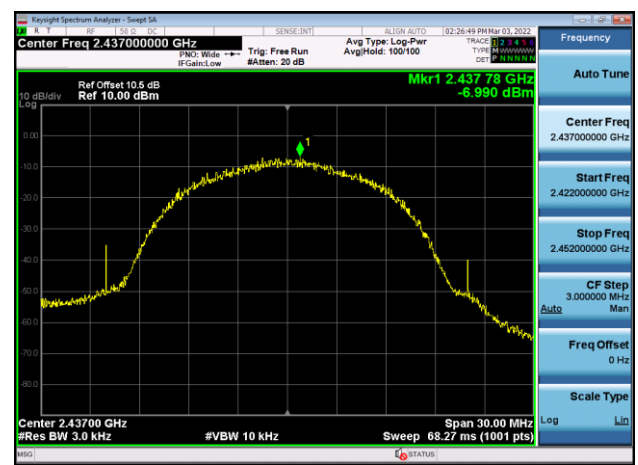
Test Result and Data

Power Spectral Density					
Mode	Test Frequency (MHz)	PSD (dBm/3KHz)	RBW (kHz)	Limit (dBm/3KHz)	Result
802.11b	2412	-7.050	3	8	Pass
802.11b	2437	-6.990	3	8	Pass
802.11b	2462	-5.922	3	8	Pass
802.11g	2412	-8.122	3	8	Pass
802.11g	2437	-8.837	3	8	Pass
802.11g	2462	-8.855	3	8	Pass
802.11n (HT20)	2412	-10.515	3	8	Pass
802.11n (HT20)	2437	-10.792	3	8	Pass
802.11n (HT20)	2462	-11.044	3	8	Pass

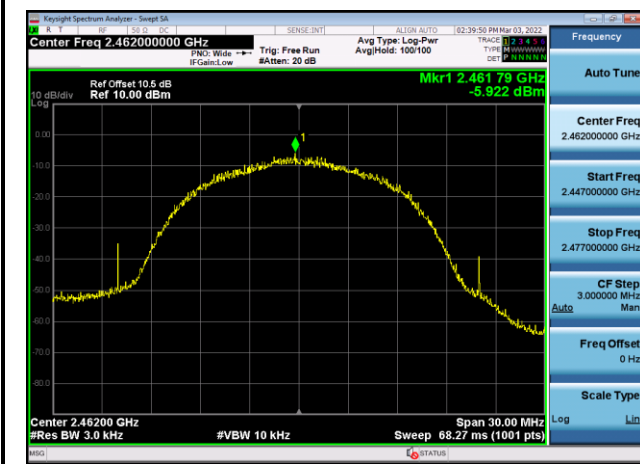
Power spectral density-802.11b
,2412MHz,Ant0



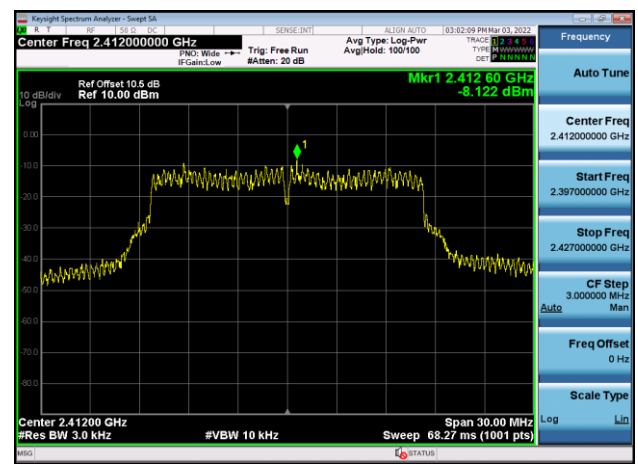
Power spectral density-802.11b
,2437MHz,Ant0



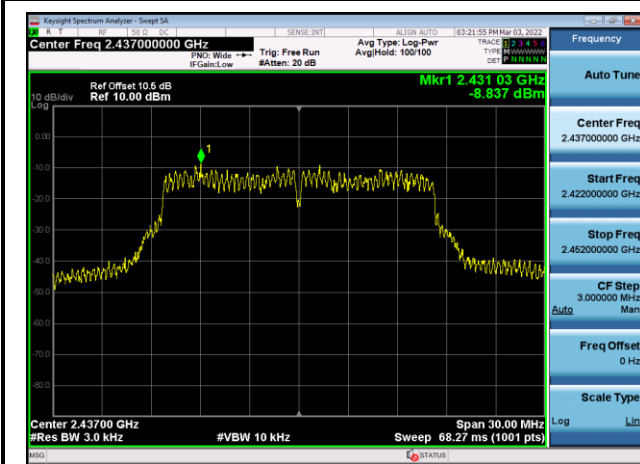
Power spectral density-802.11b
,2462MHz,Ant0



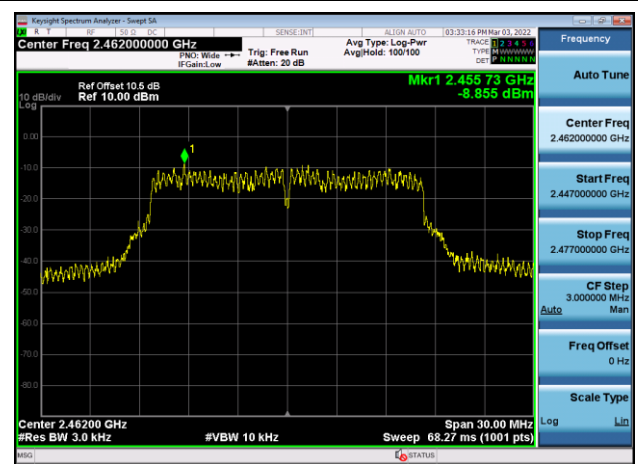
Power spectral density-802.11g
,2412MHz,Ant0



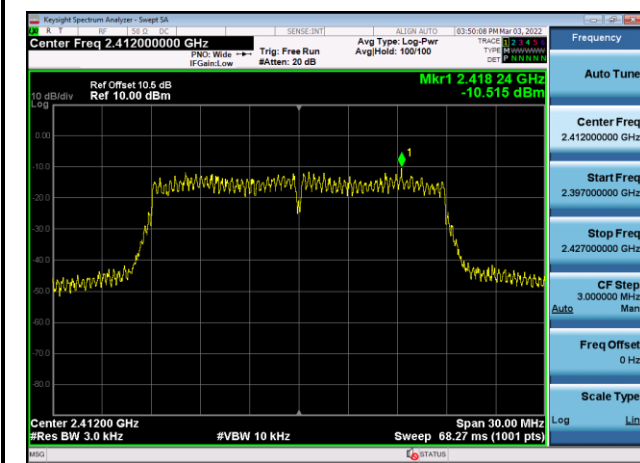
Power spectral density-802.11g
,2437MHz,Ant0



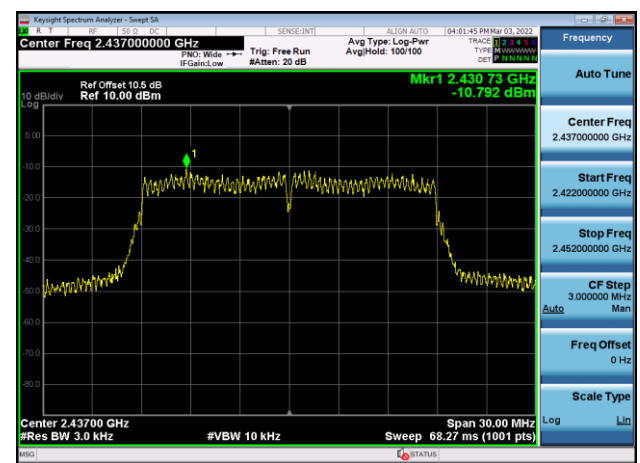
Power spectral density-802.11g
,2462MHz,Ant0



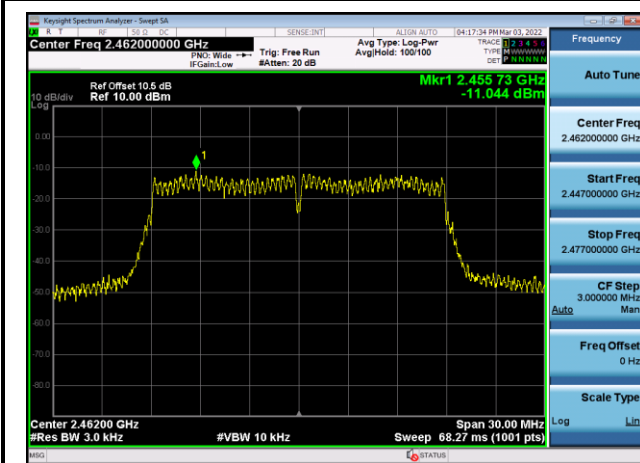
Power spectral density-802.11n(HT20)
,2412MHz,Ant0



Power spectral density-802.11n(HT20)
,2437MHz,Ant0



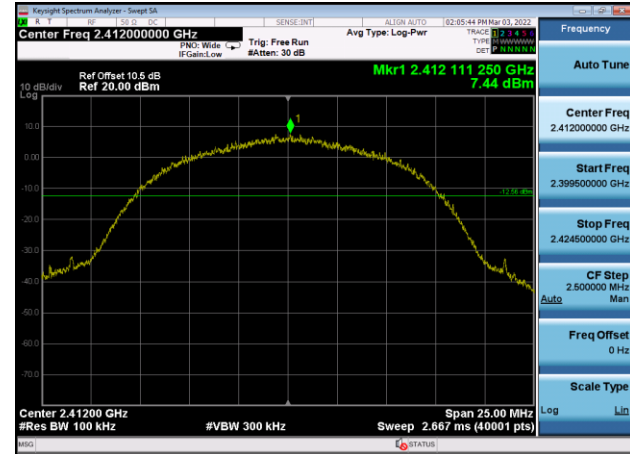
Power spectral density-802.11n(HT20)
,2462MHz,Ant0



Conducted Band Edges and Spurious Emissions

Test Result and Data

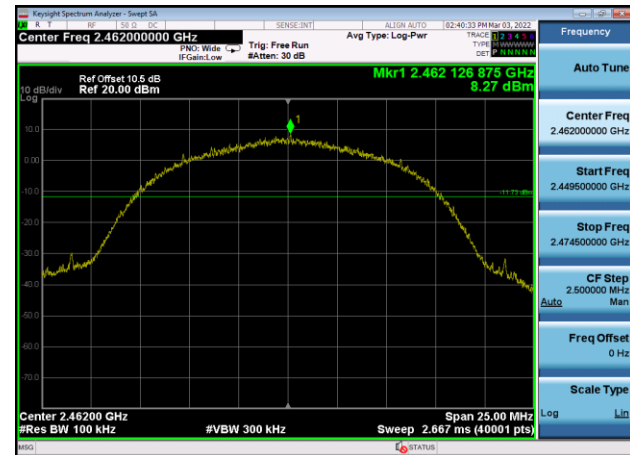
Plot 1, Reference Level-802.11b
,2412MHz,Ant0



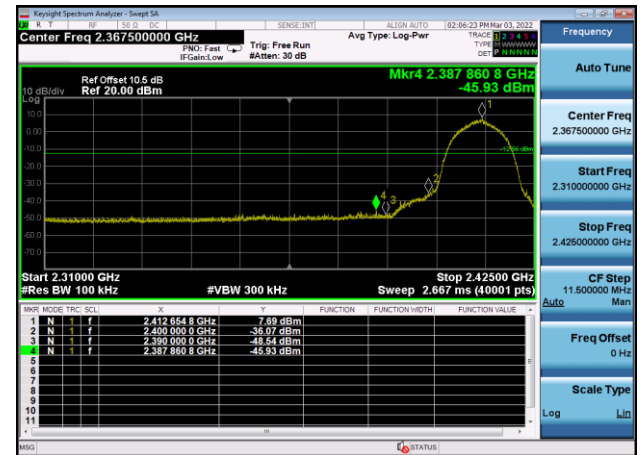
Plot 1, Reference Level-802.11b
,2437MHz,Ant0



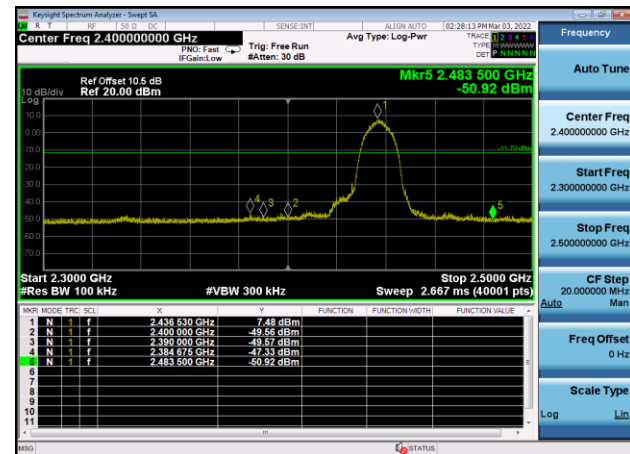
Plot 1, Reference Level-802.11b
,2462MHz,Ant0



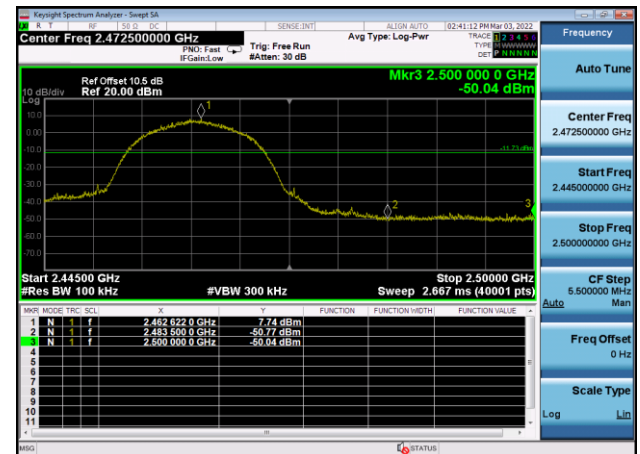
Plot 2, Band Edge-802.11b,2412MHz
,Ant0



Plot 2, Band Edge-802.11b,2437MHz
,Ant0

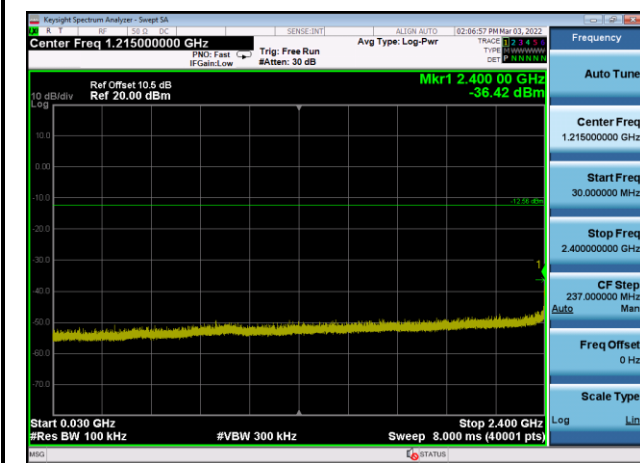


Plot 2, Band Edge-802.11b,2462MHz
,Ant0



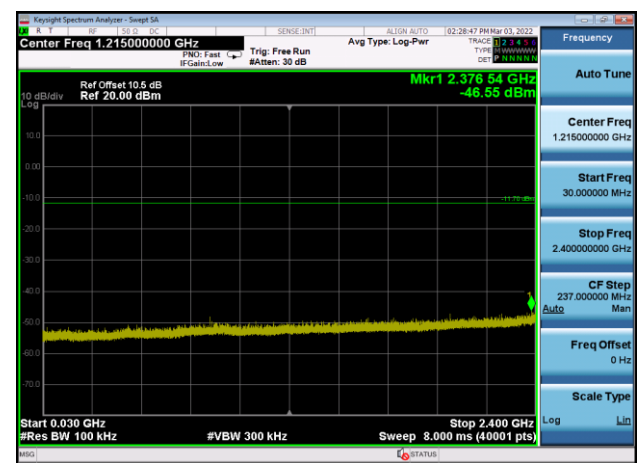
Plot 3,30MHz~2400MHz-802.11b,2412MHz

,Ant0



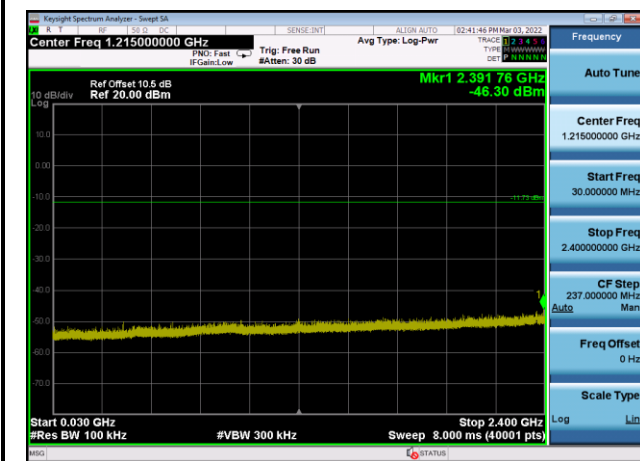
Plot 3,30MHz~2400MHz-802.11b,2437MHz

,Ant0



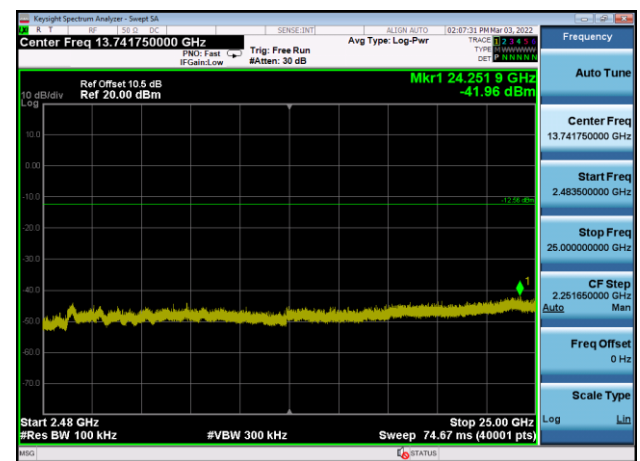
Plot 3,30MHz~2400MHz-802.11b,2462MHz

,Ant0



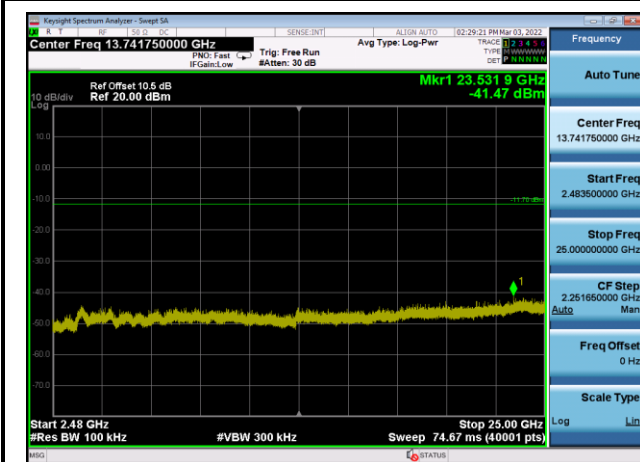
Plot 4,2483.5MHz~2500MHz-802.11b

,2412MHz,Ant0



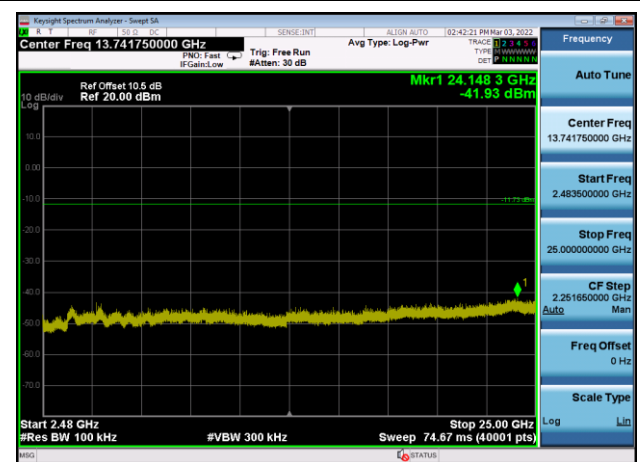
Plot 4,2483.5MHz~2500MHz-802.11b

,2437MHz,Ant0

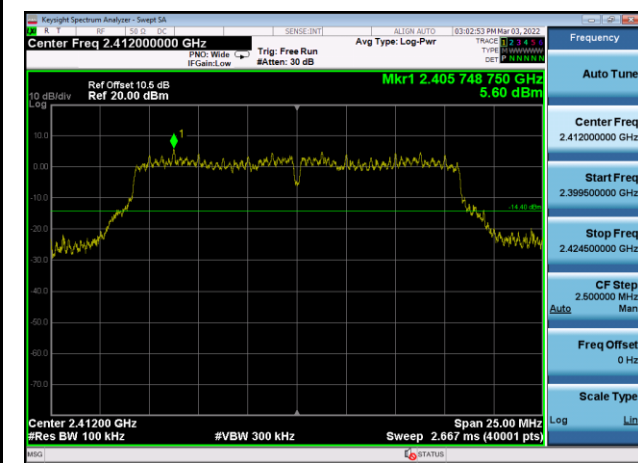


Plot 4,2483.5MHz~2500MHz-802.11b

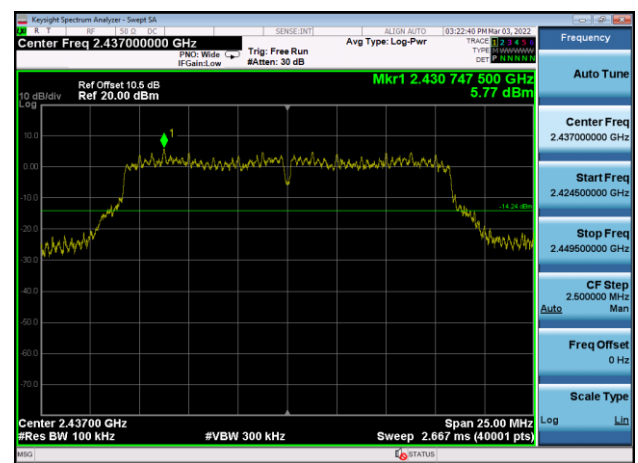
,2462MHz,Ant0



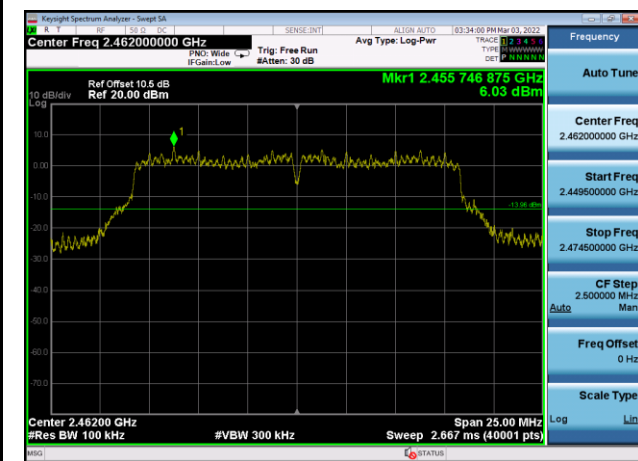
Plot 1,Reference Level-802.11g
,2412MHz,Ant0



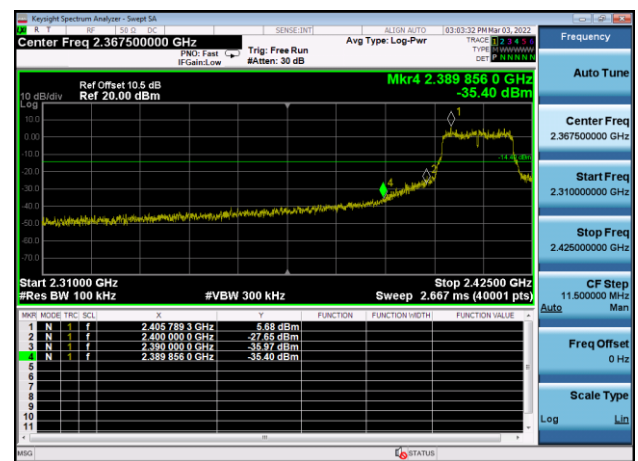
Plot 1,Reference Level-802.11g
,2437MHz,Ant0



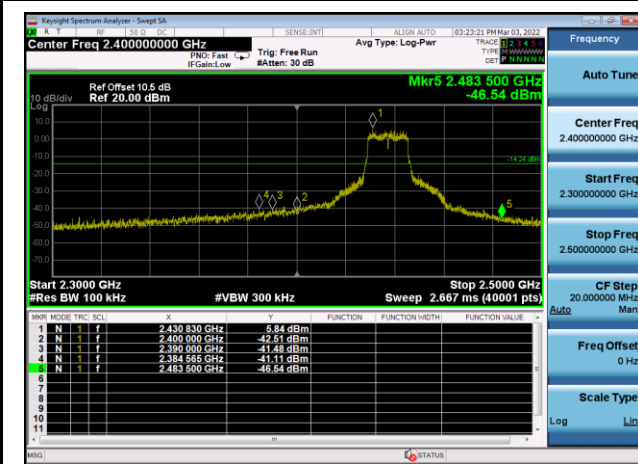
Plot 1,Reference Level-802.11g
,2462MHz,Ant0



Plot 2,Band Edge-802.11g,2412MHz
,Ant0



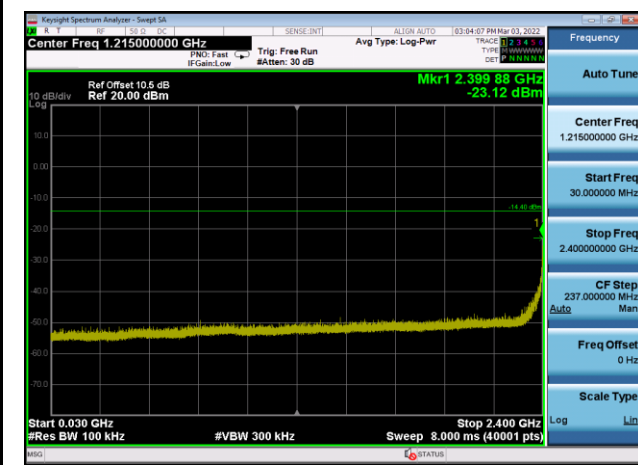
Plot 2,Band Edge-802.11g,2437MHz
,Ant0



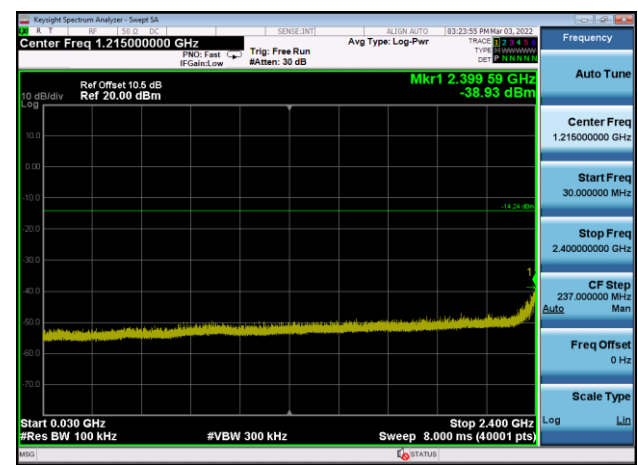
Plot 2,Band Edge-802.11g,2462MHz
,Ant0



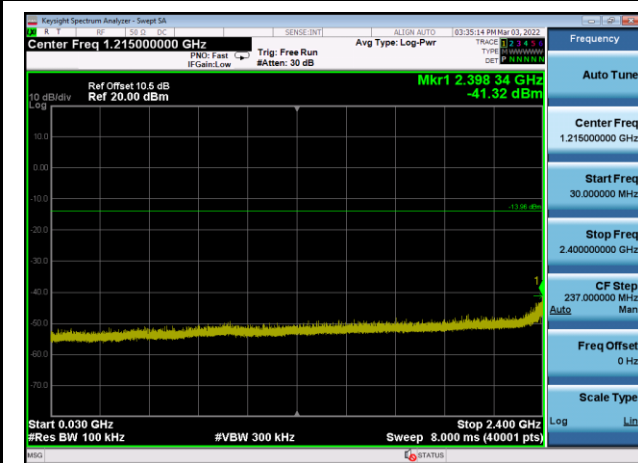
Plot 3,30MHz~2400MHz-802.11g,2412MHz
,Ant0



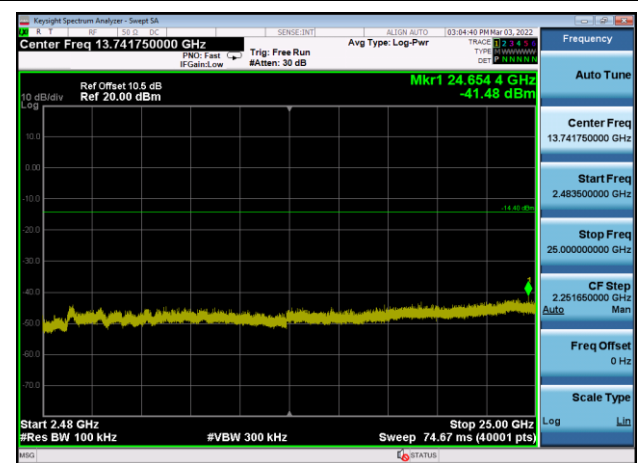
Plot 3,30MHz~2400MHz-802.11g,2437MHz
,Ant0



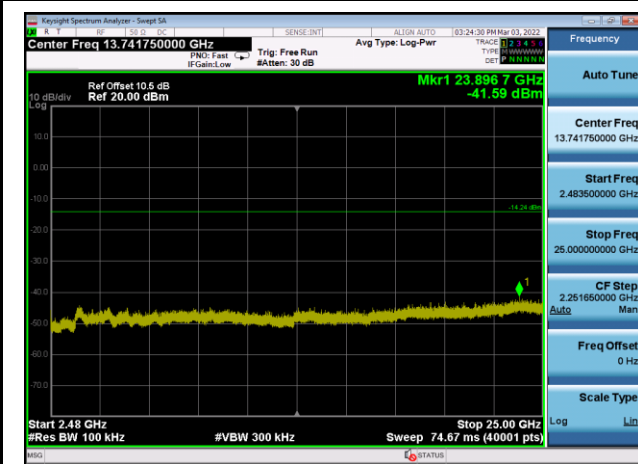
Plot 3,30MHz~2400MHz-802.11g,2462MHz
,Ant0



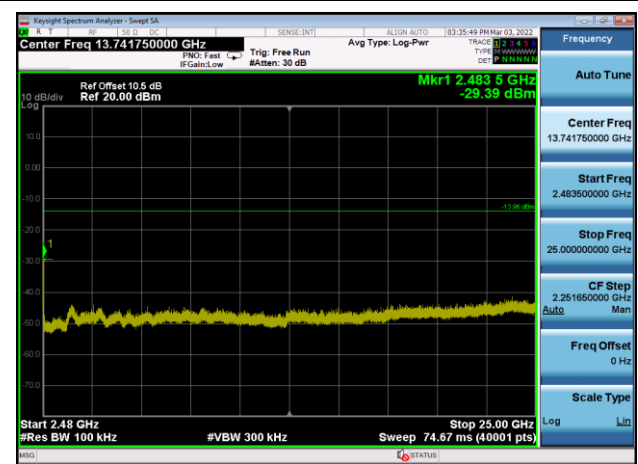
Plot 4,2483.5MHz~2500MHz-802.11g
,2412MHz,Ant0



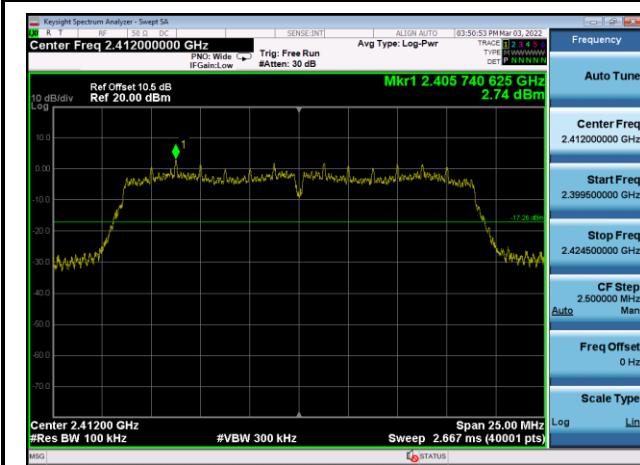
Plot 4,2483.5MHz~2500MHz-802.11g
,2437MHz,Ant0



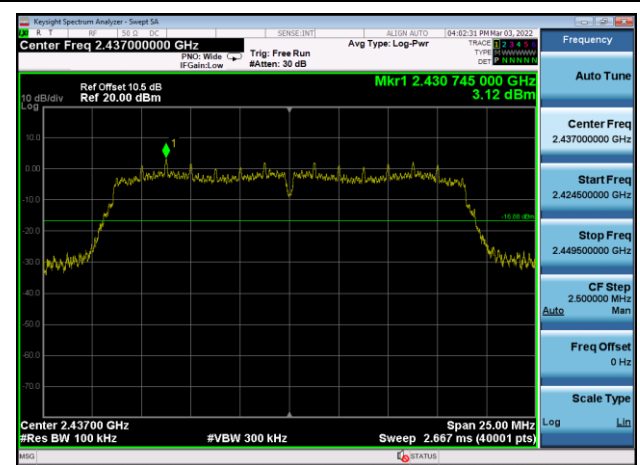
Plot 4,2483.5MHz~2500MHz-802.11g
,2462MHz,Ant0



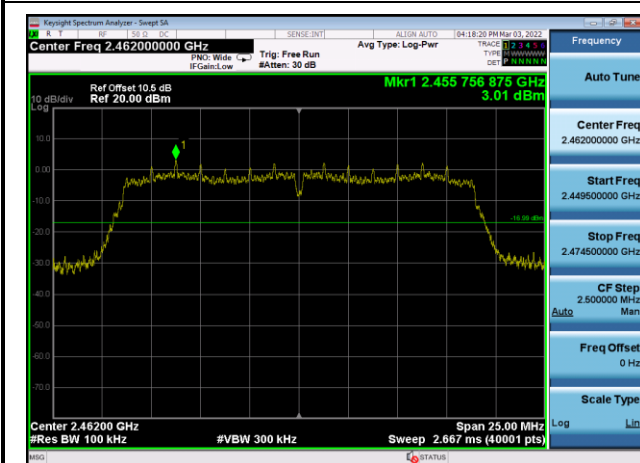
Plot 1,Reference Level-802.11n(HT20)
,2412MHz,Ant0



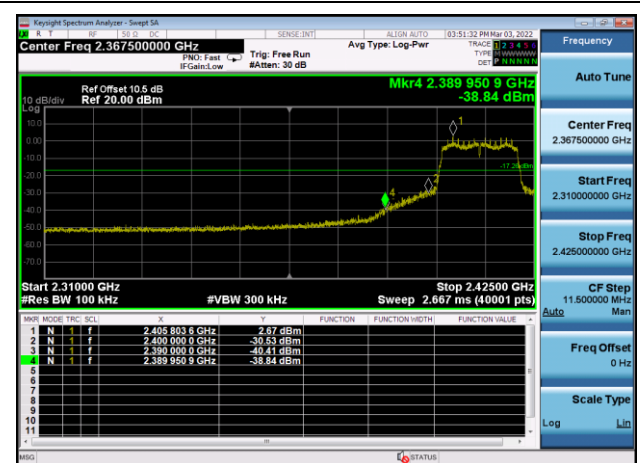
Plot 1,Reference Level-802.11n(HT20)
,2437MHz,Ant0



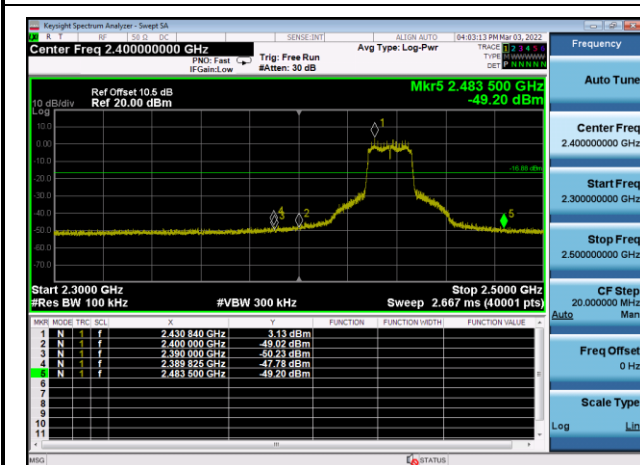
Plot 1,Reference Level-802.11n(HT20)
,2462MHz,Ant0



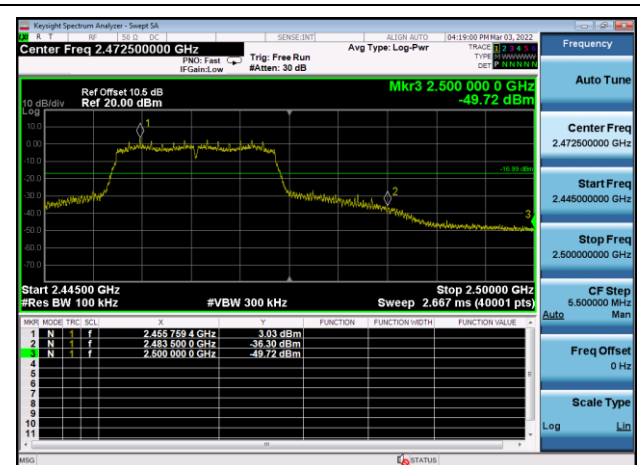
Plot 2,Band Edge-802.11n(HT20)
,2412MHz,Ant0



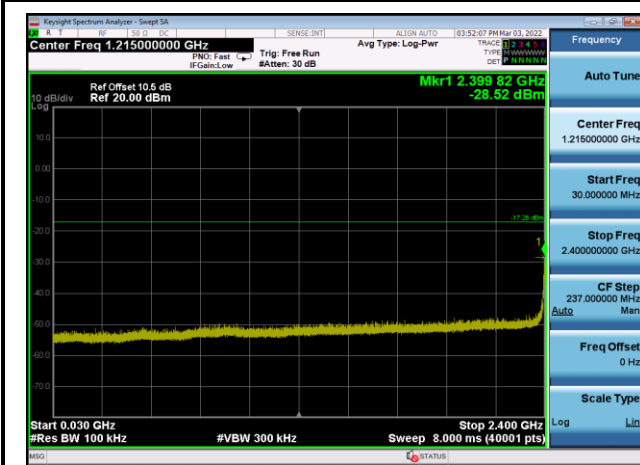
Plot 2,Band Edge-802.11n(HT20)
,2437MHz,Ant0



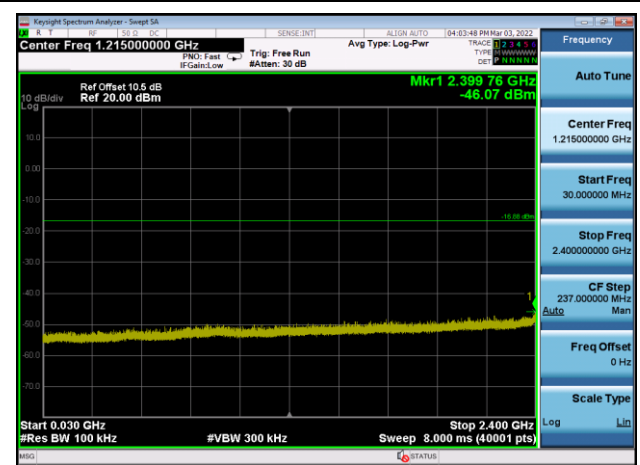
Plot 2,Band Edge-802.11n(HT20)
,2462MHz,Ant0



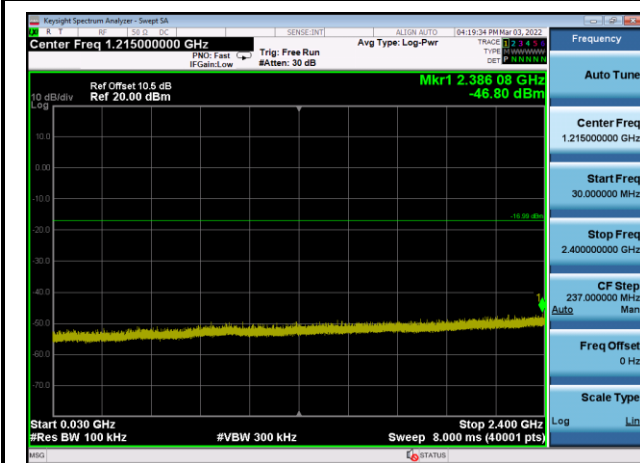
Plot 3,30MHz~2400MHz-802.11n(HT20)
,2412MHz,Ant0



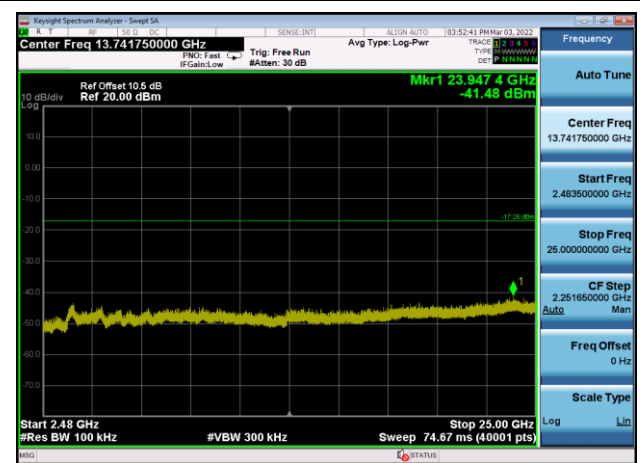
Plot 3,30MHz~2400MHz-802.11n(HT20)
,2437MHz,Ant0



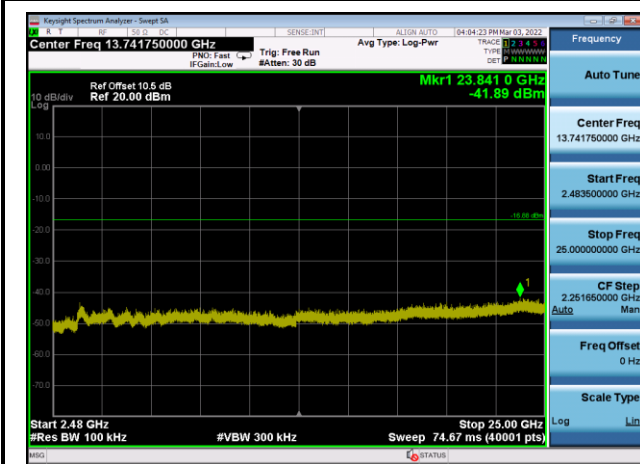
Plot 3,30MHz~2400MHz-802.11n(HT20)
,2462MHz,Ant0



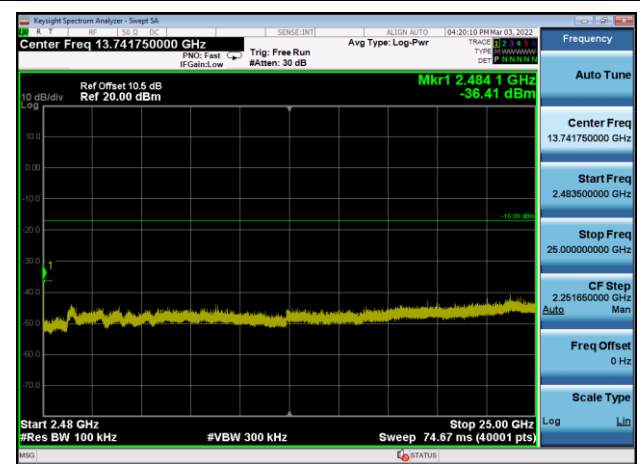
Plot 4,2483.5MHz~25000MHz-802.11n(HT20),2412MHz,Ant0



Plot 4,2483.5MHz~25000MHz-802.11n(HT20),2437MHz,Ant0



Plot 4,2483.5MHz~25000MHz-802.11n(HT20),2462MHz,Ant0



END OF REPORT