



RF TEST REPORT

Report No.: SET2019-04365

Product Name: LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone

FCC ID: SRQ-BLADEV10L

Model No. : ZTE Blade V10

Applicant: ZTE Corporation

Address: ZTE Plaza, Keji Road South, Shenzhen, China..

Dates of Testing: 04/08/2019 — 04/23/2019

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu, Xili Industrial Zone, Xili Road, Nanshan District, Shenzhen, Guangdong, China.

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Test Report

Product Name: LTE/WCDMA/GSM(GPRS)Multi-Mode Digital Mobile Phone

Brand Name: ZTE

Trade Name: ZTE

Applicant.....: ZTE Corporation

Applicant Address.....: ZTE Plaza, Keji Road South, Shenzhen, China

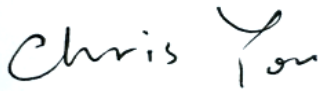
Manufacturer: ZTE Corporation

Manufacturer Address: ZTE Plaza, Keji Road South, Shenzhen, China

Test Standards.....: 47 CFR Part 15 Subpart C: Radio Frequency Devices
ANSI C63.10-2013 : American National Standard for
Testing Unlicensed Wireless Devices
KDB558074 D01 DTS Meas Guidance v05r01

Test Result: PASS

Tested by: 
2019.04.23
Shallwe Yang, Test Engineer

Reviewed by: 
2019.04.23
Chris You, Senior Engineer

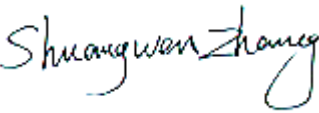
Approved by: 
2019.04.23
Shuangwen Zhang, Manager

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Change History		
Issue	Date	Reason for change
1.0	2019.04.23	First edition

1. General Information

1.1. EUT Description

EUT Type	LTE/WCDMA/GSM(GPRS)Multi-Mode Digital Mobile Phone
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n (HT20/HT40)
Frequency Range	802.11b/g/n-20MHz: 2.412GHz - 2.462GHz 802.11n-40MHz: 2.422GHz - 2.452GHz
Channel Number	802.11b/g/n-20MHz: 11, 802.11n-40MHz: 7
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 135 Mbps
Modulation Type	DSSS (802.11b), OFDM (802.11g/n)
MIMO	Not support
Antenna Type	Internal
Antenna Gain	-2.4dBi

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%.

1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (WiFi, 2.4GHz ISM band radiators) for the EUT FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C 2017	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)	Peak Output Power	PASS
3	15.247(a)	6dB 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	Conducted Emission	PASS
7	15.209 15.247(d)	Radiated Band Edges and Spurious Emission	PASS

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 v05r01.

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.

There are two bandwidth systems:

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

For 40MHz bandwidth systems, use Channel 3~ Channel 9

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		

Test Items	Mode	Data Rate	Channel
Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Conducted and Spurious Emission Radiated 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
	11n(40MHz)/OFDM	MCS 0	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	MCS 0	1/11
	11n(40MHz)/OFDM	MCS 0	3/9

1.3. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Notebook	DELL	PP11L	DELL	H5914A03	FCC DOC

1.4. Facilities and Accreditations

1.4.1. Facilities

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) 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: CN5031, valid time is until Dec.31, 2019.

ISED Registration: 11185A-1

CAB identifier: CN0064

CCIC Southern Electronic Product Testing (Shenzhen) 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 Dec. 31, 2019.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

1.4.2. 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. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

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

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	Gain(dBi)
1	LTE/WCDMA/GSM(GPRS)Multi-Mode Digital Mobile Phone	Internal	-2.4

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

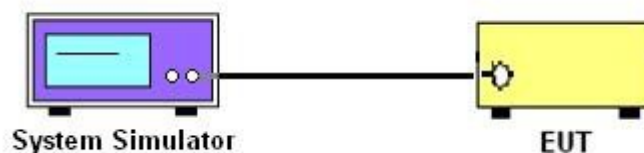
2.2.1. Limit of Peak Output Power

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 the Measurement Procedure of ANSI C63.10:2013.
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. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

2.2.5. Test Result

Please refer to Appendix A for detail

2.3. 6dB Bandwidth

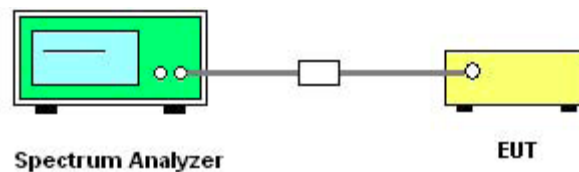
2.3.1. Limit of 6dB Bandwidth

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 v05r01.

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. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 30 kHz and set the Video bandwidth (VBW) = 100 kHz.

6. 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

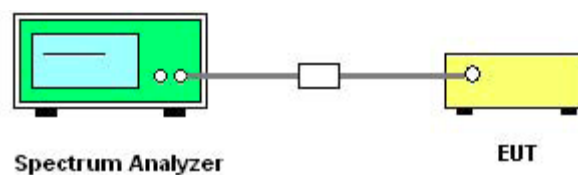
2.4.1. Limit of Conducted Band Edges and Spurious Emissions

All harmonics/spurious must be at least 20 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 v05r01.
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)

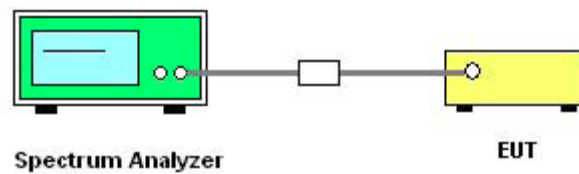
2.5.1. Limit of Power Spectral Density

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 10.2 Method PKPSD of FCC KDB558074 D01 v05r01.

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 DTS Channel Bandwidth. (6dB BW)

5. 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.

6. Measure and record the results in the test report.

7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

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.

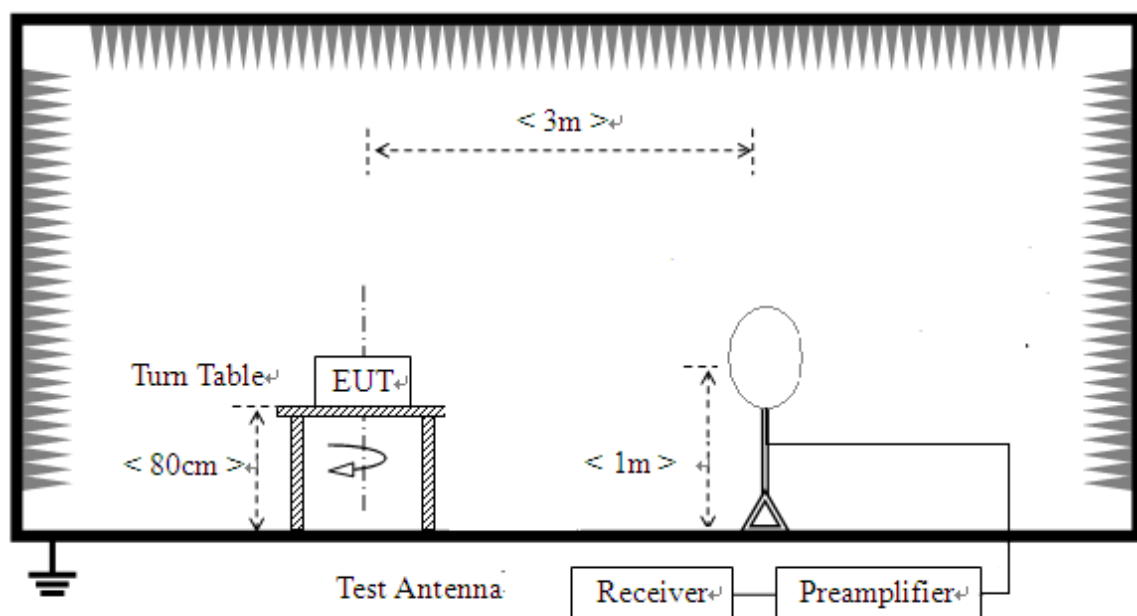
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

2.6.2. Measuring Instruments

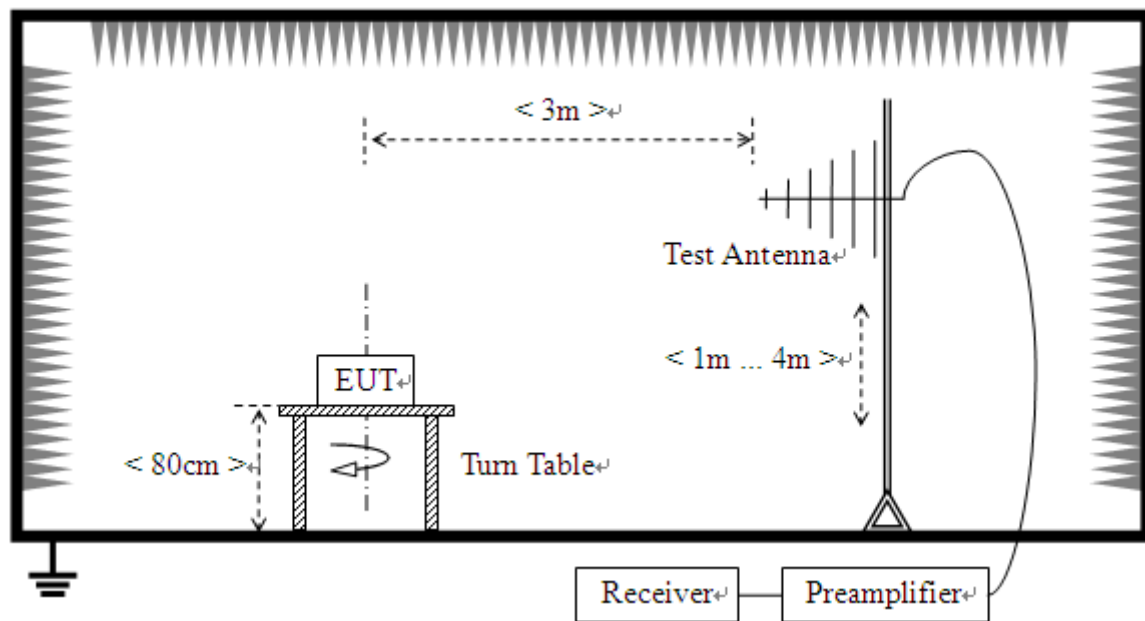
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

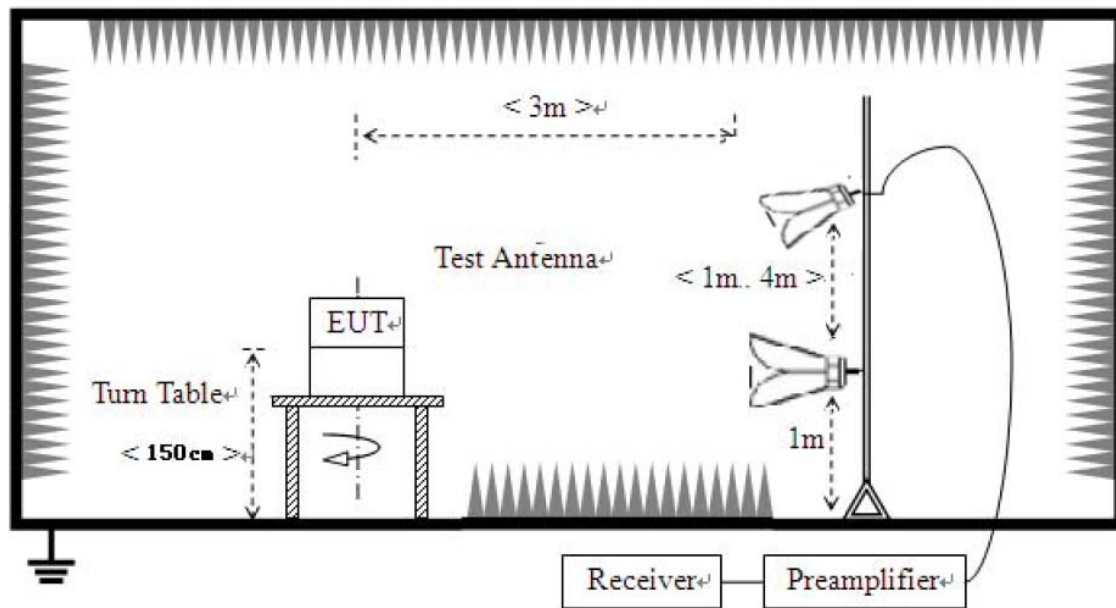
For radiated emissions from 9 KHz to 30 MHz



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:

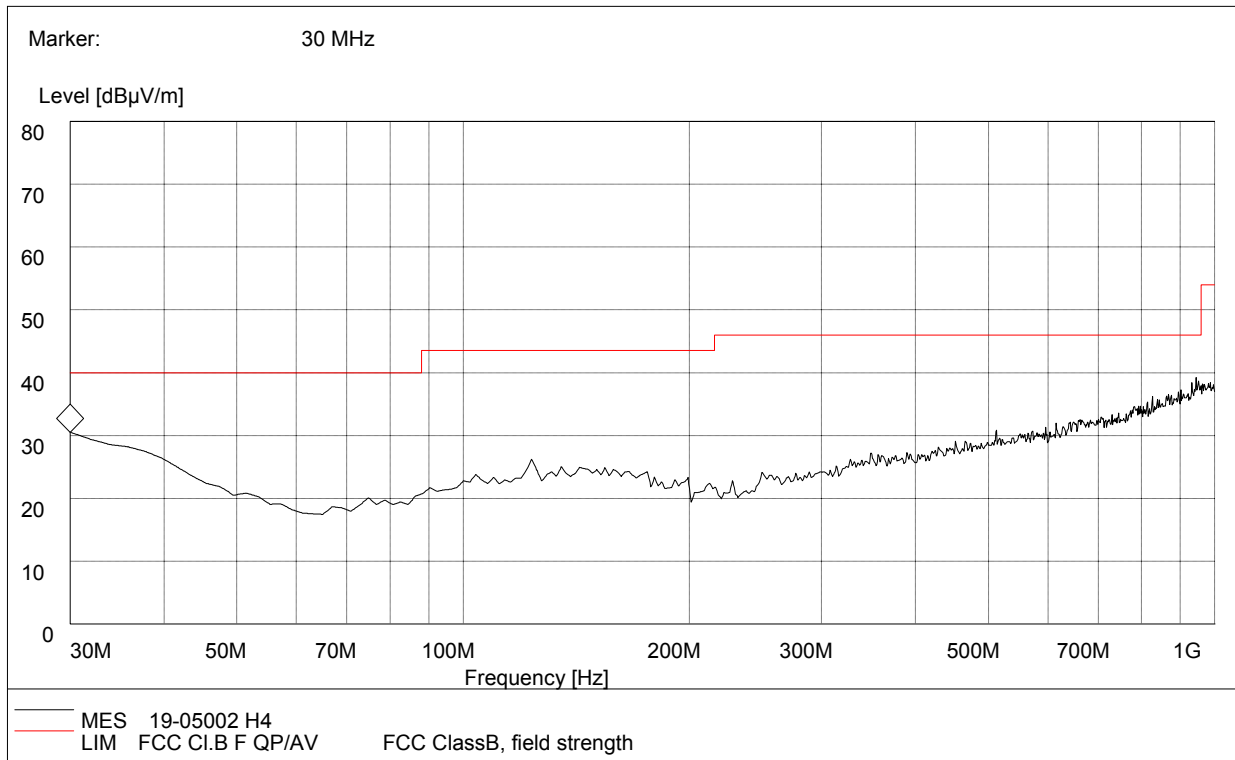
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution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

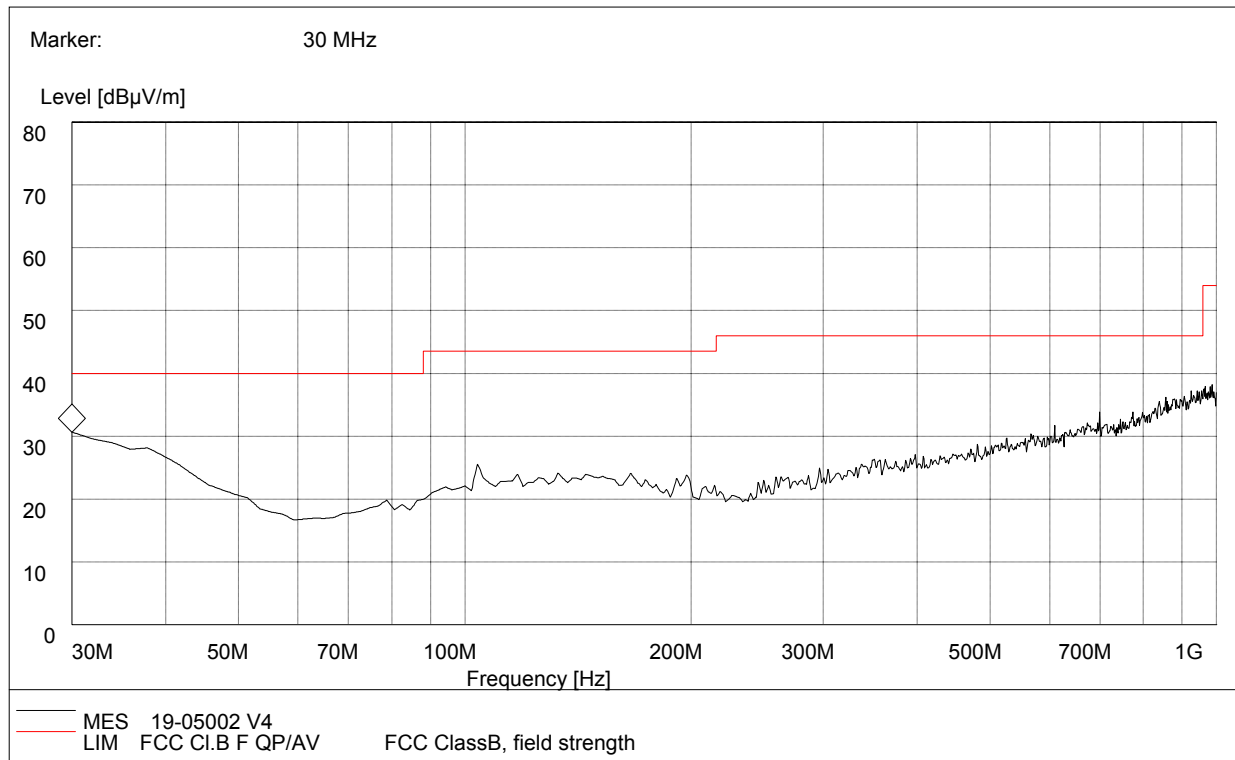
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
30	27.83	120.000	100.0	40.0	H	Pass



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
30	27.92	120.000	100.0	43.5	V	Pass

For 1GHz to 25 GHz
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11b_2412MHz)

No.	Fre. (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	48.58	PK	74.00	-25.42	1.00	40.00	47.28	5.20	28.60	32.50	1.30
2	2390.00	37.95	AV	54.00	-16.05	1.00	40.00	36.65	5.20	28.60	32.50	1.30
3	4824.00	49.85	PK	74.00	-24.15	1.50	320.00	43.45	7.40	30.40	31.40	6.40
4	4824.00	39.71	AV	54.00	-14.29	1.50	320.00	33.31	7.40	30.40	31.40	6.40
5	7236.00	51.33	PK	74.00	-22.67	1.50	320.00	40.83	11.50	31.20	32.20	10.50
6	7236.00	40.79	AV	54.00	-13.21	1.50	320.00	30.29	11.50	31.20	32.20	10.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11b_2412MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	48.62	PK	74.00	-25.38	1.00	50.00	47.32	5.20	28.60	32.50	1.30
2	2390.00	37.87	AV	54.00	-16.13	1.00	50.00	36.57	5.20	28.60	32.50	1.30
3	4824.00	50.34	PK	74.00	-23.66	1.60	330.00	43.94	7.40	30.40	31.40	6.40
4	4824.00	40.14	AV	54.00	-13.86	1.60	330.00	33.74	7.40	30.40	31.40	6.40
5	7236.00	51.09	PK	74.00	-22.91	1.60	330.00	40.59	11.50	31.20	32.20	10.50
6	7236.00	40.97	AV	54.00	-13.03	1.60	330.00	30.47	11.50	31.20	32.20	10.50

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11b_2437MHz)

No.	Fre. (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	49.95	PK	74.00	-24.05	1.50	120.00	43.55	6.70	30.40	31.30	6.40
2	4874.00	39.90	AV	54.00	-14.10	1.50	120.00	33.50	6.70	30.40	31.30	6.40
3	7311.00	51.36	PK	74.00	-22.64	1.50	120.00	40.56	11.80	31.20	32.20	10.80
4	7311.00	41.66	AV	54.00	-12.34	1.50	120.00	30.86	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11b_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	48.97	PK	74.00	-25.03	1.50	220.00	42.57	6.70	30.40	31.30	6.40
2	4874.00	38.76	AV	54.00	-15.24	1.50	220.00	32.36	6.70	30.40	31.30	6.40
3	7311.00	50.65	PK	74.00	-23.35	1.50	260.00	39.85	11.80	31.20	32.20	10.80
4	7311.00	40.85	AV	54.00	-13.15	1.50	260.00	30.05	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11b_2462MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	49.36	PK	74.00	-24.64	1.00	10.00	47.76	5.30	28.70	32.40	1.60
2	2483.50	38.90	AV	54.00	-15.10	1.00	10.00	37.30	5.30	28.70	32.40	1.60
3	4924.00	50.36	PK	74.00	-23.64	1.60	240.00	44.66	6.70	30.50	31.50	5.70
4	4924.00	40.54	AV	54.00	-13.46	1.60	240.00	34.84	6.70	30.50	31.50	5.70
5	7386.00	51.06	PK	74.00	-22.94	1.60	240.00	40.26	11.80	31.20	32.20	10.80
6	7386.00	41.11	AV	54.00	-12.89	1.60	240.00	30.31	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11b_2462MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	50.68	PK	74.00	-23.32	1.00	120.00	49.08	5.30	28.70	32.40	1.60
2	2483.50	38.85	AV	54.00	-15.15	1.00	120.00	37.25	5.30	28.70	32.40	1.60
3	4924.00	49.99	PK	74.00	-24.01	1.50	180.00	44.29	6.70	30.50	31.50	5.70
4	4924.00	39.85	AV	54.00	-14.15	1.50	180.00	34.15	6.70	30.50	31.50	5.70
5	7386.00	50.37	PK	74.00	-23.63	1.50	180.00	39.57	11.80	31.20	32.20	10.80
6	7386.00	40.59	AV	54.00	-13.41	1.50	180.00	29.79	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11g_2412MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	53.97	PK	74.00	-20.03	1.60	120.00	52.67	5.20	28.60	32.50	1.30
2	2390.00	44.05	AV	54.00	-9.95	1.60	120.00	42.75	5.20	28.60	32.50	1.30
3	4824.00	49.99	PK	74.00	-24.01	1.60	240.00	43.59	7.40	30.40	31.40	6.40
4	4824.00	40.24	AV	54.00	-13.76	1.60	240.00	33.84	7.40	30.40	31.40	6.40
5	7236.00	50.43	PK	74.00	-23.57	1.60	360.00	39.93	11.50	31.20	32.20	10.50
6	7236.00	40.61	AV	54.00	-13.39	1.60	360.00	30.11	11.50	31.20	32.20	10.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11g_2412MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	53.88	PK	74.00	-20.12	1.50	240.00	52.58	5.20	28.60	32.50	1.30
2	2390.00	39.69	AV	54.00	-14.31	1.50	240.00	38.39	5.20	28.60	32.50	1.30
3	4824.00	49.78	PK	74.00	-24.22	1.50	175.00	43.38	7.40	30.40	31.40	6.40
4	4824.00	40.14	AV	54.00	-13.86	1.50	175.00	33.74	7.40	30.40	31.40	6.40
5	7236.00	51.00	PK	74.00	-23.00	1.50	100.00	40.80	11.50	31.20	32.20	10.20
6	7236.00	41.02	AV	54.00	-12.98	1.50	100.00	30.82	11.50	31.20	32.20	10.20

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11g_2437MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	51.24	PK	74.00	-22.76	1.50	240.00	45.44	6.70	30.40	31.30	5.80
2	4874.00	42.17	AV	54.00	-11.83	1.50	240.00	36.37	6.70	30.40	31.30	5.80
3	7311.00	52.06	PK	74.00	-21.94	2.00	160.00	41.26	11.80	31.20	32.20	10.80
4	7311.00	42.89	AV	54.00	-11.11	2.00	160.00	32.09	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11g_2437MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	50.36	PK	74.00	-23.64	2.00	160.00	44.56	6.70	30.40	31.30	5.80
2	4874.00	42.21	AV	54.00	-11.79	2.00	160.00	36.41	6.70	30.40	31.30	5.80
3	7311.00	51.31	PK	74.00	-22.69	2.00	160.00	40.51	11.80	31.20	32.20	10.80
4	7311.00	42.06	AV	54.00	-11.94	2.00	160.00	31.26	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11g_2462MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	59.62	PK	74.00	-14.38	1.50	120.00	58.02	5.30	28.70	32.40	1.60
2	2483.50	46.14	AV	54.00	-7.86	1.50	120.00	44.54	5.30	28.70	32.40	1.60
3	4924.00	49.96	PK	74.00	-24.04	1.50	320.00	44.26	6.70	30.50	31.50	5.70
4	4924.00	39.84	AV	54.00	-14.16	1.50	320.00	34.14	6.70	30.50	31.50	5.70
5	7386.00	50.36	PK	74.00	-23.64	1.50	180.00	39.56	11.80	31.20	32.20	10.80
6	7386.00	41.91	AV	54.00	-12.09	1.50	180.00	31.11	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11g_2462MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	58.62	PK	74.00	-15.38	1.50	80.00	57.02	5.30	28.70	32.40	1.60
2	2483.50	43.95	AV	54.00	-10.05	1.50	80.00	42.35	5.30	28.70	32.40	1.60
3	4924.00	49.95	PK	74.00	-24.05	2.00	240.00	44.25	6.70	30.50	31.50	5.70
4	4924.00	39.65	AV	54.00	-14.35	2.00	240.00	33.95	6.70	30.50	31.50	5.70
5	7386.00	51.36	PK	74.00	-22.64	2.00	198.00	40.56	11.80	31.20	32.20	10.80
6	7386.00	42.16	AV	54.00	-11.84	1.80	198.00	31.36	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_2412MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	59.70	PK	74.00	-14.30	2.00	120.00	58.40	5.20	28.60	32.50	1.30
2	2390.00	39.38	AV	54.00	-14.62	2.00	120.00	38.08	5.20	28.60	32.50	1.30
3	4824.00	50.36	PK	74.00	-23.64	1.20	190.00	43.96	7.40	30.40	31.40	6.40
4	4824.00	40.37	AV	54.00	-13.63	1.20	190.00	33.97	7.40	30.40	31.40	6.40
5	7236.00	51.24	PK	74.00	-22.76	1.20	190.00	40.74	11.50	31.20	32.20	10.50
6	7236.00	41.23	AV	54.00	-12.77	1.20	190.00	30.73	11.50	31.20	32.20	10.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_2412MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	52.88	PK	74.00	-21.12	2.00	150.00	51.58	5.20	28.60	32.50	1.30
2	2390.00	41.86	AV	54.00	-12.14	2.00	150.00	40.56	5.20	28.60	32.50	1.30
3	4824.00	50.36	PK	74.00	-23.64	2.00	180.00	43.96	7.40	30.40	31.40	6.40
4	4824.00	42.01	AV	54.00	-11.99	2.00	180.00	35.61	7.40	30.40	31.40	6.40
5	7236.00	51.22	PK	74.00	-22.78	1.90	170.00	40.72	11.50	31.20	32.20	10.50
6	7236.00	40.07	AV	54.00	-13.93	1.90	170.00	29.57	11.50	31.20	32.20	10.50

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_2437MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	51.47	PK	74.00	-22.53	1.60	320.00	45.67	6.70	30.40	31.30	5.80
2	4874.00	43.52	AV	54.00	-10.48	1.60	320.00	37.72	6.70	30.40	31.30	5.80
3	7311.00	51.69	PK	74.00	-22.31	1.80	240.00	40.89	11.80	31.20	32.20	10.80
4	7311.00	43.33	AV	54.00	-10.67	1.80	240.00	32.53	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_2437MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	50.99	PK	74.00	-23.01	1.80	240.00	44.59	6.70	31.20	31.50	6.40
2	4874.00	42.72	AV	54.00	-11.28	1.80	240.00	36.32	6.70	31.20	31.50	6.40
3	7311.00	51.17	PK	74.00	-22.83	1.60	223.00	40.37	11.80	31.20	32.20	10.80
4	7311.00	42.82	AV	54.00	-11.18	1.60	223.00	32.02	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_2462MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	60.91	PK	74.00	-13.09	1.60	100.00	59.31	5.30	28.70	32.40	1.60
2	2483.50	43.20	AV	54.00	-10.80	1.60	100.00	41.60	5.30	28.70	32.40	1.60
3	4924.00	51.12	PK	74.00	-22.88	1.80	320.00	45.42	6.70	30.50	31.50	5.70
4	4924.00	42.77	AV	54.00	-11.23	1.80	320.00	37.07	6.70	30.50	31.50	5.70
5	7386.00	52.09	PK	74.00	-21.91	1.80	240.00	41.29	11.80	31.20	32.20	10.80
6	7386.00	43.84	AV	54.00	-10.16	1.80	240.00	33.04	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_2462MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	60.71	PK	74.00	-13.29	1.50	100.00	59.11	5.30	28.70	32.40	1.60
2	2483.50	42.92	AV	54.00	-11.08	1.50	100.00	41.32	5.30	28.70	32.40	1.60
3	4924.00	51.26	PK	74.00	-22.74	2.00	180.00	45.56	6.70	30.50	31.50	5.70
4	4924.00	42.87	AV	54.00	-11.13	2.00	180.00	37.17	6.70	30.50	31.50	5.70
5	7386.00	52.36	PK	74.00	-21.64	1.50	160.00	41.56	11.80	31.20	32.20	10.80
6	7386.00	43.54	AV	54.00	-10.46	1.50	160.00	32.74	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_2422MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	64.52	PK	74.00	-9.48	1.00	140.00	63.22	5.20	28.60	32.50	1.30
2	2390.00	48.28	AV	54.00	-5.72	1.00	140.00	46.98	5.20	28.60	32.50	1.30
3	4844.00	49.96	PK	74.00	-24.04	1.50	120.00	43.56	7.40	30.40	31.40	6.40
4	4844.00	41.82	AV	54.00	-12.18	1.50	120.00	35.42	7.40	30.40	31.40	6.40
5	7266.00	50.64	PK	74.00	-23.36	1.80	360.00	40.14	11.50	31.20	32.20	10.50
6	7266.00	41.10	AV	54.00	-12.90	1.80	360.00	30.60	11.50	31.20	32.20	10.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_2422MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390.00	61.80	PK	74.00	-12.20	1.00	320.00	60.50	5.20	28.60	32.50	1.30
2	2390.00	48.46	AV	54.00	-5.54	1.00	320.00	47.16	5.20	28.60	32.50	1.30
3	4824.00	49.87	PK	74.00	-24.13	2.00	120.00	43.47	7.40	30.40	31.40	6.40
4	4824.00	41.58	AV	54.00	-12.42	2.00	120.00	35.18	7.40	30.40	31.40	6.40
5	7266.00	51.32	PK	74.00	-22.68	1.50	320.00	40.82	11.50	31.20	32.20	10.50
6	7266.00	42.97	AV	54.00	-11.03	1.50	320.00	32.47	11.50	31.20	32.20	10.50

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_2437MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	50.69	PK	74.00	-23.31	2.00	160.00	44.29	6.70	31.20	31.50	6.40
2	4874.00	42.26	AV	54.00	-11.74	2.00	160.00	35.86	6.70	31.20	31.50	6.40
3	7311.00	50.05	PK	74.00	-23.95	1.60	360.00	39.25	11.80	31.20	32.20	10.80
4	7311.00	41.85	AV	54.00	-12.15	1.60	360.00	31.05	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_2437MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4874.00	50.18	PK	74.00	-23.82	1.80	240.00	43.78	6.70	31.20	31.50	6.40
2	4874.00	41.95	AV	54.00	-12.05	1.80	240.00	35.55	6.70	31.20	31.50	6.40
3	7311.00	51.57	PK	74.00	-22.43	1.00	160.00	40.77	11.80	31.20	32.20	10.80
4	7311.00	43.49	AV	54.00	-10.51	1.00	160.00	32.69	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_2452MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	60.34	PK	74.00	-13.66	1.00	10.00	58.74	5.30	28.70	32.40	1.60
2	2483.50	44.93	AV	54.00	-9.07	1.00	10.00	43.33	5.30	28.70	32.40	1.60
3	4904.00	51.36	PK	74.00	-22.64	1.20	150.00	45.66	6.70	30.50	31.50	5.70
4	4904.00	43.24	AV	54.00	-10.76	1.20	150.00	37.54	6.70	30.50	31.50	5.70
5	7356.00	52.48	PK	74.00	-21.52	1.60	33.00	41.68	11.80	31.20	32.20	10.80
6	7356.00	44.18	AV	54.00	-9.82	1.60	33.00	33.38	11.80	31.20	32.20	10.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_2452MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.50	59.28	PK	74.00	-14.72	1.50	260.00	57.68	5.30	28.70	32.40	1.60
2	2483.50	45.01	AV	54.00	-8.99	1.50	260.00	43.41	5.30	28.70	32.40	1.60
3	4904.00	51.36	PK	74.00	-22.64	1.20	33.00	45.66	6.70	30.50	31.50	5.70
4	4904.00	43.01	AV	54.00	-10.99	1.20	33.00	37.31	6.70	30.50	31.50	5.70
5	7356.00	52.85	PK	74.00	-21.15	1.20	33.00	42.05	11.80	31.20	32.20	10.80
6	7356.00	44.86	AV	54.00	-9.14	1.20	33.00	34.06	11.80	31.20	32.20	10.80

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)
- Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level - Limit value
5. " * ": Fundamental frequency.

2.7. Conducted Emission

2.7.1. Limit of Conducted Emission

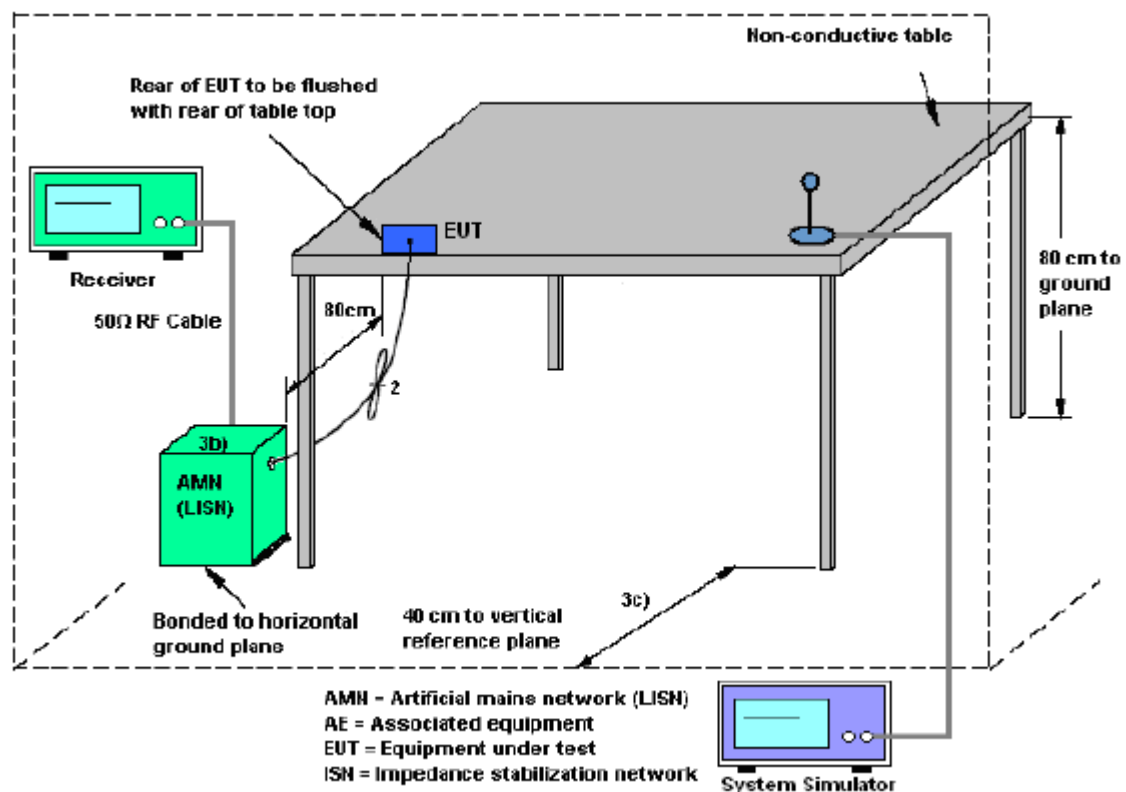
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

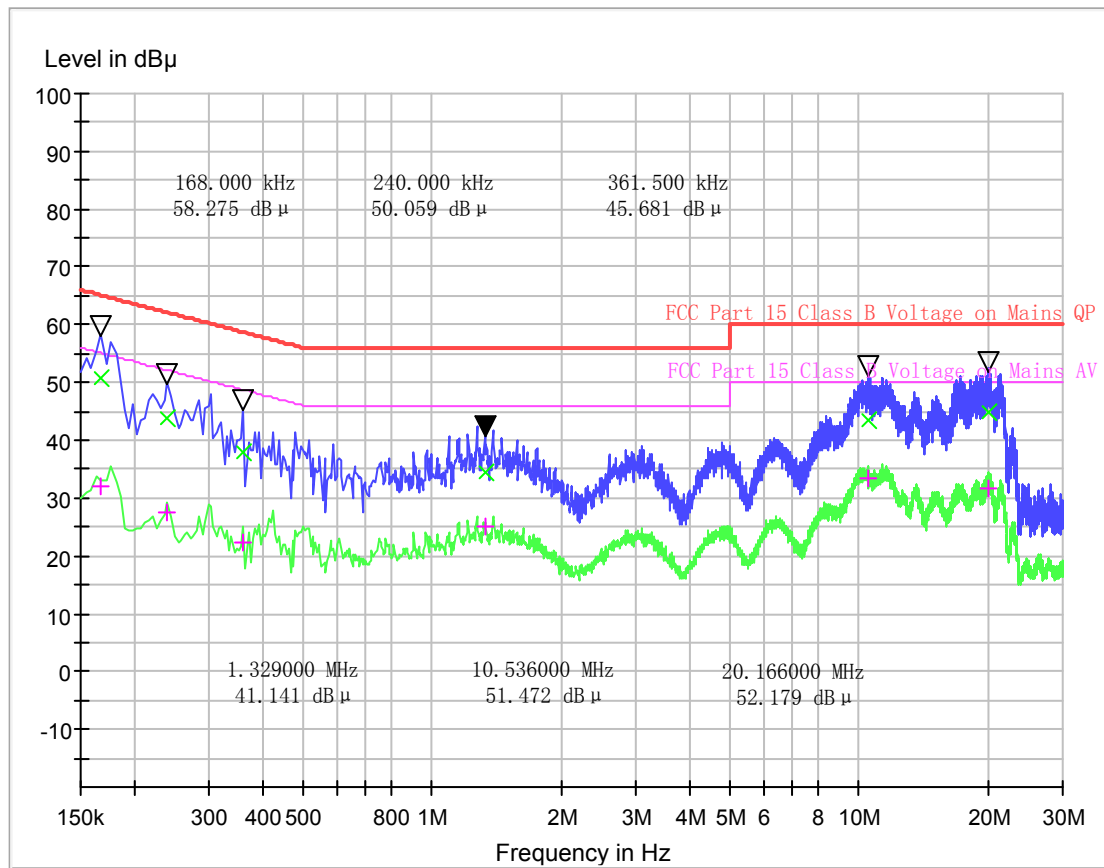


2.7.4. Test Procedures

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.

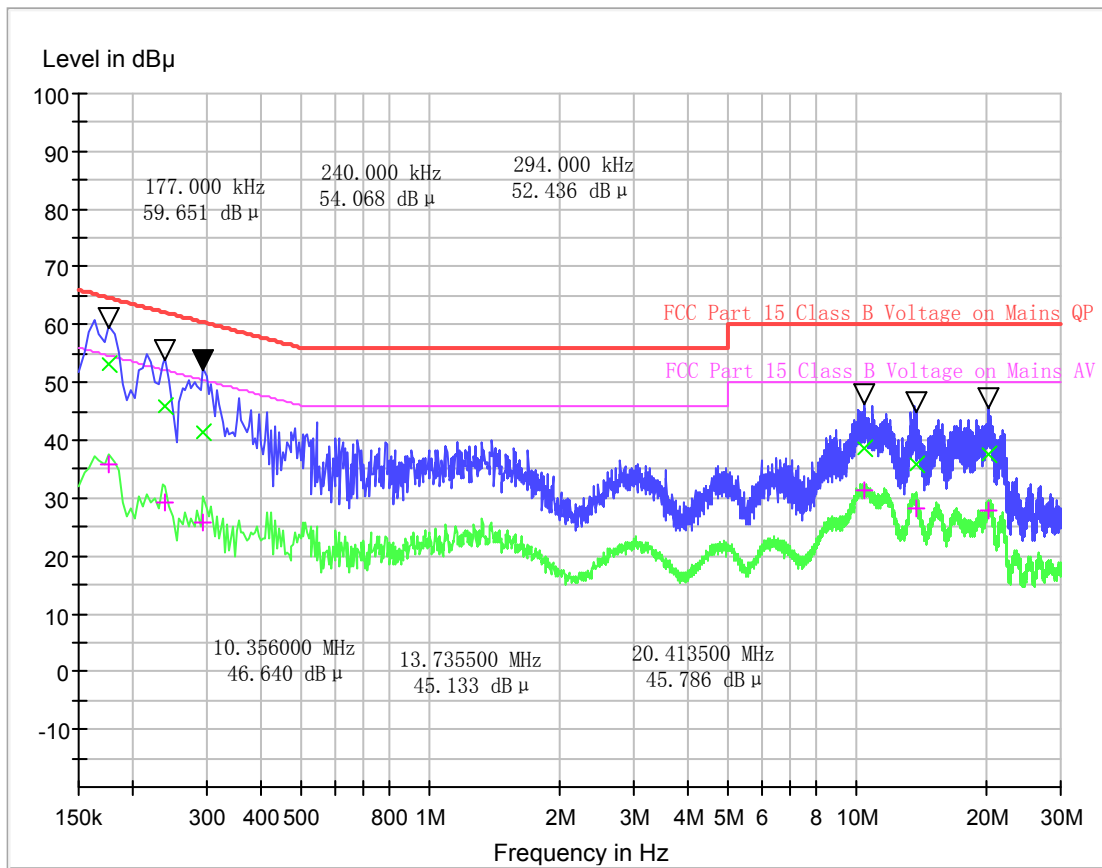
2.7.5. Test Results of Conducted Emission

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



(Plot A: L Phase)

Conducted Disturbance at Mains Terminals					
L Test Data					
QP			AV		
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)
0.168000	65.1	50.85	0.168000	55.1	31.95
0.240000	62.1	43.80	0.240000	52.1	27.47
0.361500	58.7	37.97	0.361500	48.7	22.24
1.329000	56.0	34.36	1.329000	46.0	25.01
10.536000	60.0	43.43	10.536000	50.0	33.26
20.166000	60.0	44.90	20.166000	50.0	31.81



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals					
N Test Data					
QP			AV		
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)
0.177000	64.6	53.30	0.177000	54.6	35.77
0.240000	62.1	46.02	0.240000	52.1	29.08
0.294000	60.4	41.55	0.294000	50.4	25.92
10.356000	60.0	38.60	10.356000	50.0	31.26
13.735500	60.0	35.70	13.735500	50.0	28.34
20.413500	60.0	37.53	20.413500	50.0	27.98

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	11/11/2018
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	11/11/2018
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	11/11/2018
8	Amplifer	Sonoma	310N	E009-13	11/11/2018
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28 -5A	F201504	11/11/2018
10	High pass filter	Compliance Direction systems	BSU-6	34202	11/11/2018
11	HORNANTENNA	ShwarzBeck	9120D	1012	11/11/2018
12	Amplifer	Compliance Direction systems	PAP1-4060	120	11/11/2018
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	11/11/2018
14	TURNTABLE	MATURO	TT2.0	----	N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	11/11/2018
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	07/12/2018
18	Spectrum Analyzer	Keysight	N9030A	A160702554	10/15/2018

The calibration interval was one year.

Appendix A

RF Output Power

Test Result and Data

Conducted Output Peak Power				
Mode	Test Frequency (MHz)	Max Conducted Output Power (dBm)	Limit (dBm)	Result
802.11b	2412	16.95	30	Pass
802.11b	2437	17.20	30	Pass
802.11b	2462	17.18	30	Pass
802.11g	2412	16.38	30	Pass
802.11g	2437	16.45	30	Pass
802.11g	2462	16.10	30	Pass
802.11n (HT20)	2412	14.03	30	Pass
802.11n (HT20)	2437	13.84	30	Pass
802.11n (HT20)	2462	12.16	30	Pass
802.11n (HT40)	2422	14.46	30	Pass
802.11n (HT40)	2437	13.93	30	Pass
802.11n (HT40)	2452	14.90	30	Pass

6dB Bandwidth Test Result and Data

	WLAN Occupied 6dB Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (KHz)	Result
802.11b	2412	8.10	500	Pass
802.11b	2437	9.04	500	Pass
802.11b	2462	8.08	500	Pass
802.11g	2412	15.12	500	Pass
802.11g	2437	15.34	500	Pass
802.11g	2462	15.14	500	Pass
802.11n (HT20)	2412	17.34	500	Pass
802.11n (HT20)	2437	17.62	500	Pass
802.11n (HT20)	2462	17.57	500	Pass
802.11n (HT40)	2422	33.28	500	Pass
802.11n (HT40)	2437	36.42	500	Pass
802.11n (HT40)	2452	34.02	500	Pass

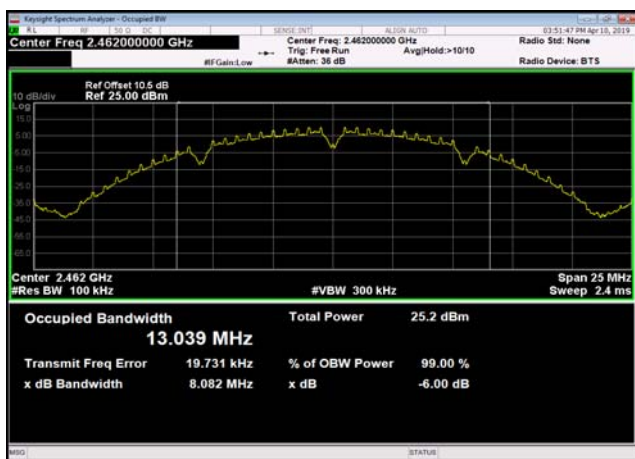
6dB Bandwidth-802.11b,2412MHz



6dB Bandwidth-802.11b,2437MHz



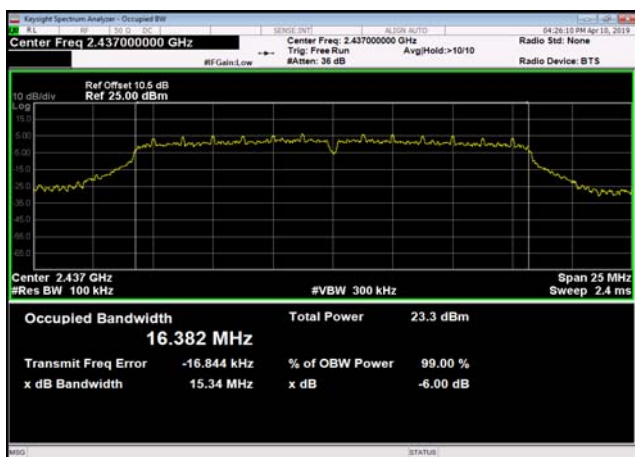
6dB Bandwidth-802.11b,2462MHz



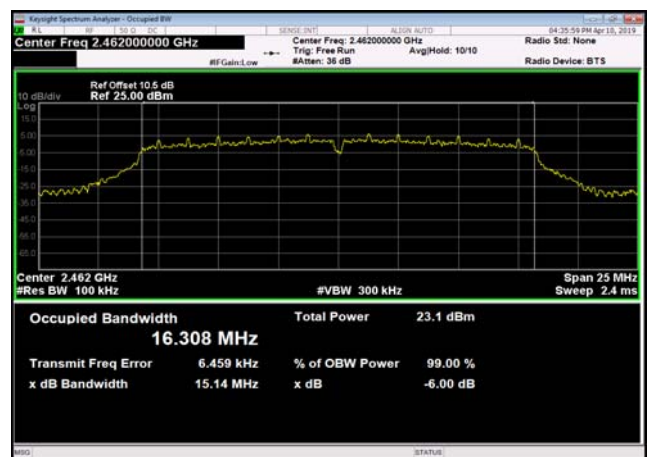
6dB Bandwidth-802.11g,2412MHz



6dB Bandwidth-802.11g,2437MHz



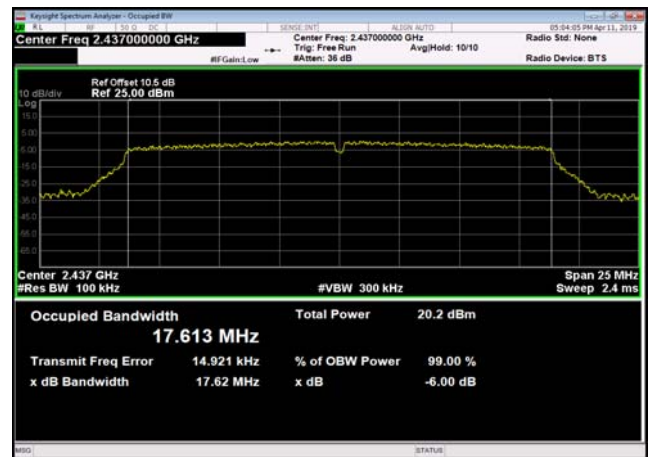
6dB Bandwidth-802.11g,2462MHz



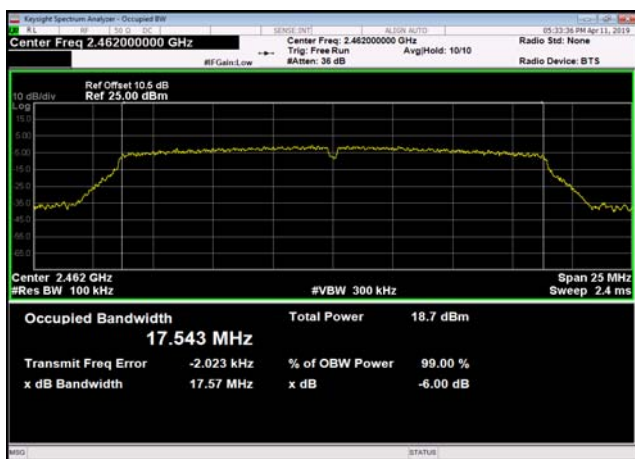
6dB Bandwidth-802.11n(HT20),2412MHz



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



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



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



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



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



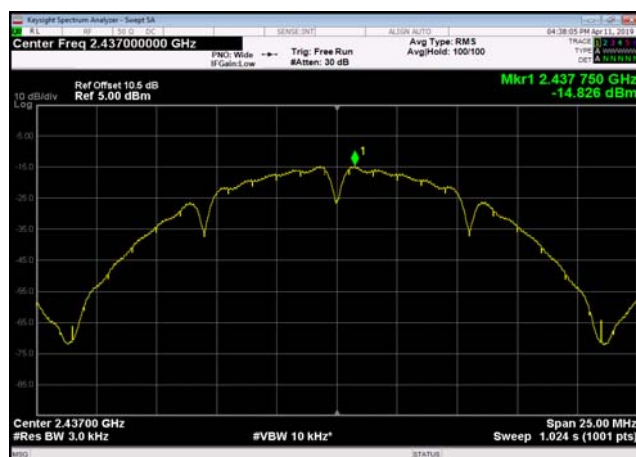
**Power Spectral Density****Test Result and Data**

Power Spectral Density					
Mode	Test Frequency (MHz)	PSD (dBm/3KHz)	RBW (kHz)	Limit (dBm/3KHz)	Result
802.11b	2412	-14.645	3	8	Pass
802.11b	2437	-14.826	3	8	Pass
802.11b	2462	-14.606	3	8	Pass
802.11g	2412	-17.409	3	8	Pass
802.11g	2437	-17.631	3	8	Pass
802.11g	2462	-17.387	3	8	Pass
802.11n (HT20)	2412	-20.125	3	8	Pass
802.11n (HT20)	2437	-20.684	3	8	Pass
802.11n (HT20)	2462	-21.869	3	8	Pass
802.11n (HT40)	2422	-22.188	3	8	Pass
802.11n (HT40)	2437	-23.602	3	8	Pass
802.11n (HT40)	2452	-22.029	3	8	Pass

Power spectral density-802.11b
,2412MHz



Power spectral density-802.11b
,2437MHz



Power spectral density-802.11b
,2462MHz



Power spectral density-802.11g
,2412MHz



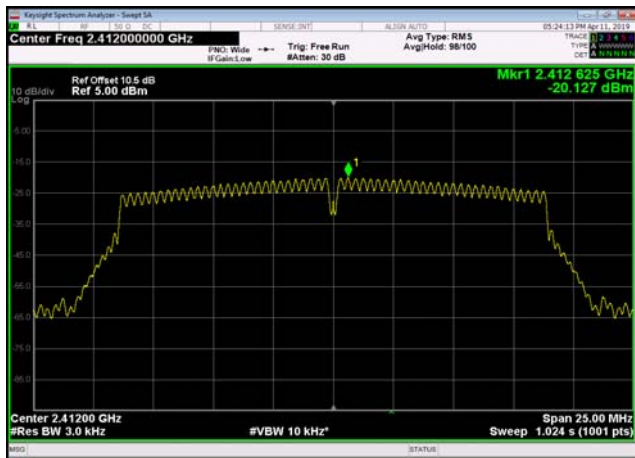
Power spectral density-802.11g
,2437MHz



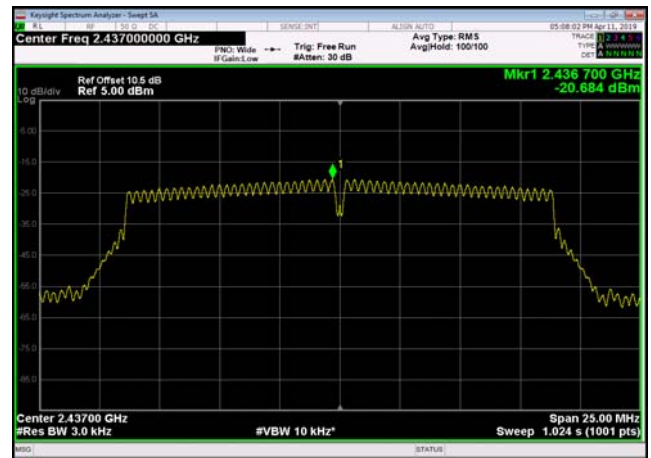
Power spectral density-802.11g
,2462MHz



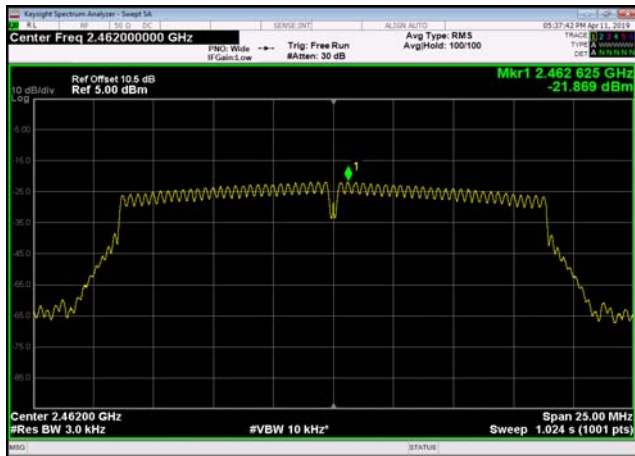
Power spectral density-802.11n(HT20)
,2412MHz



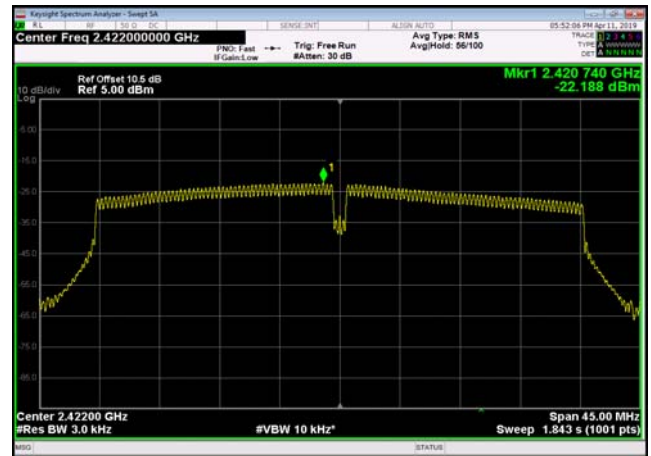
Power spectral density-802.11n(HT20)
,2437MHz



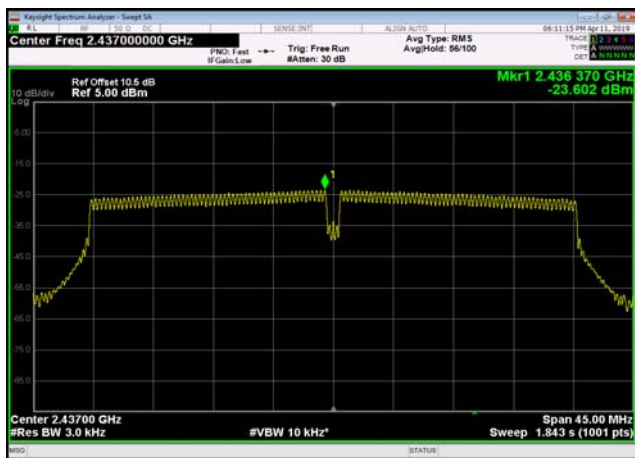
Power spectral density-802.11n(HT20)
,2462MHz



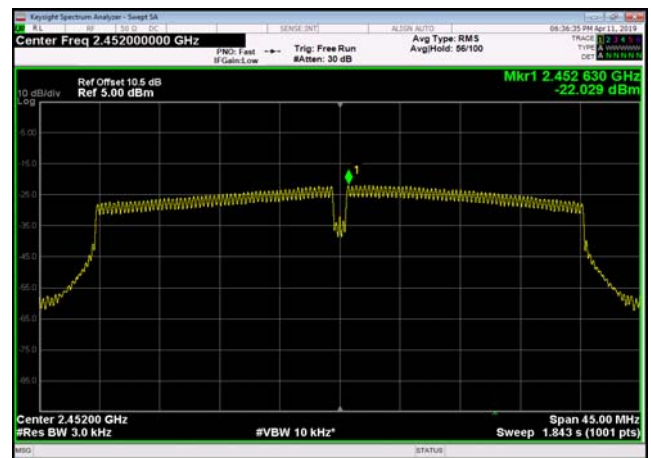
Power spectral density-802.11n(HT40)
,2422MHz



Power spectral density-802.11n(HT40)
,2437MHz



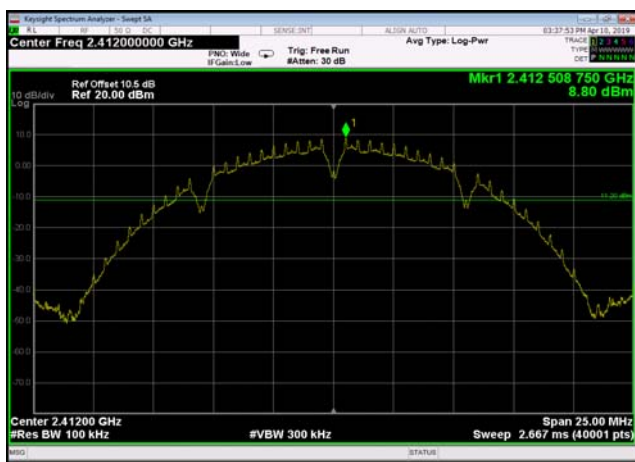
Power spectral density-802.11n(HT40)
,2452MHz



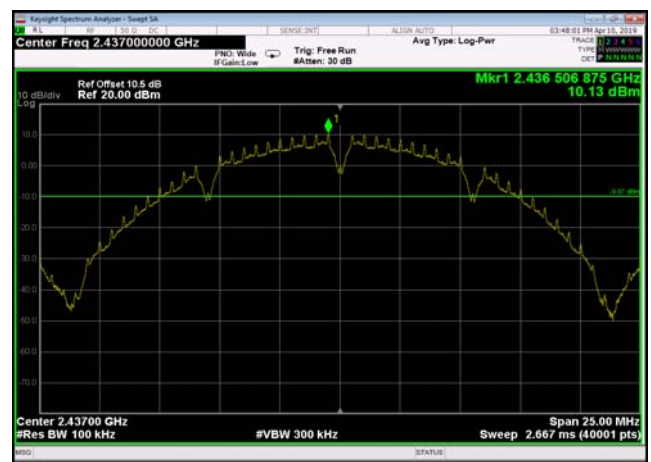
Conducted Band Edges and Spurious Emissions

Test Result and Data

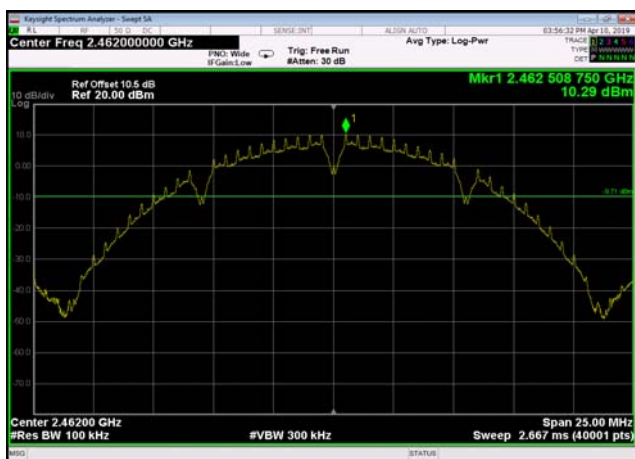
,Plot 1,Reference Level-802.11b
,2412MHz



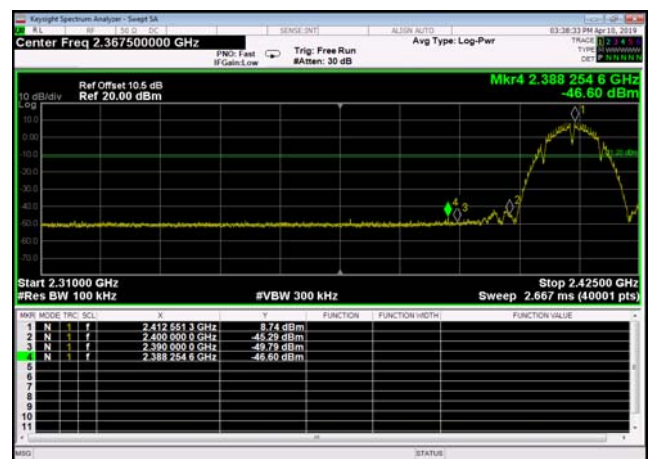
,Plot 1,Reference Level-802.11b
,2437MHz



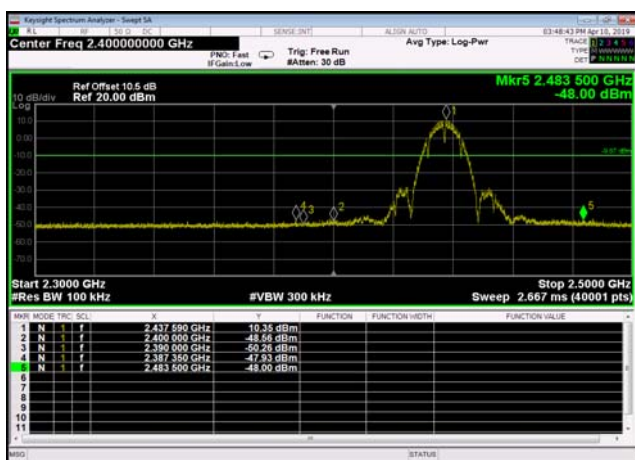
,Plot 1,Reference Level-802.11b
,2462MHz



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



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

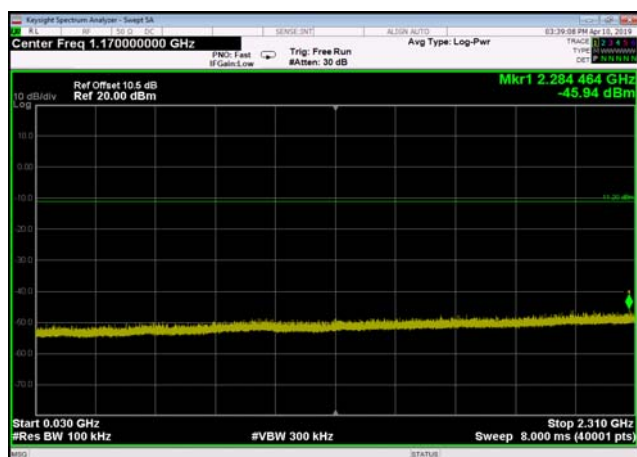


,Plot 2,Band Edge-802.11b,2462MHz

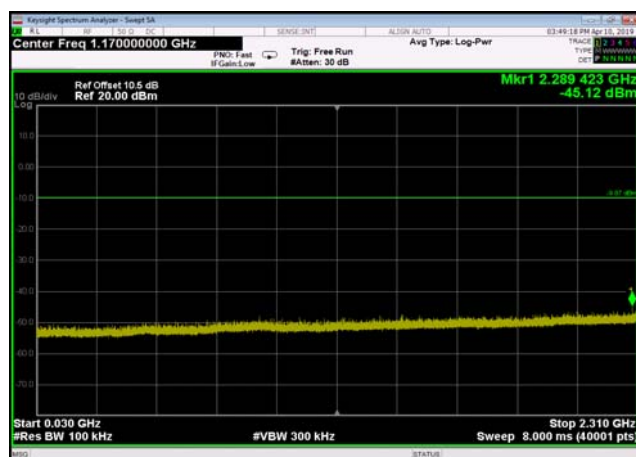




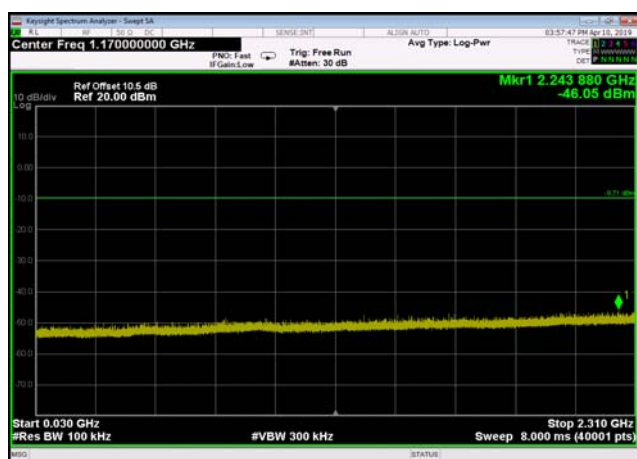
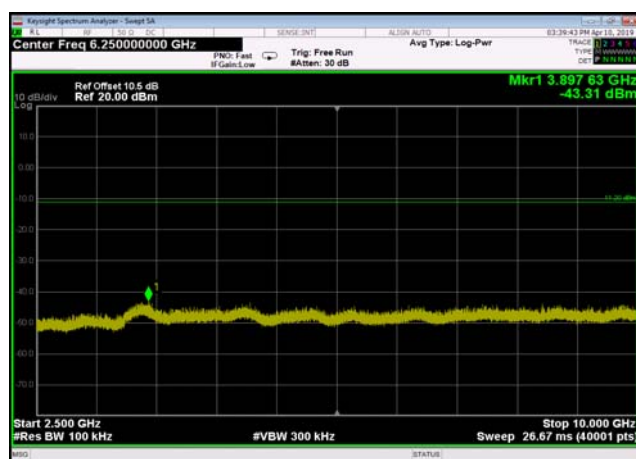
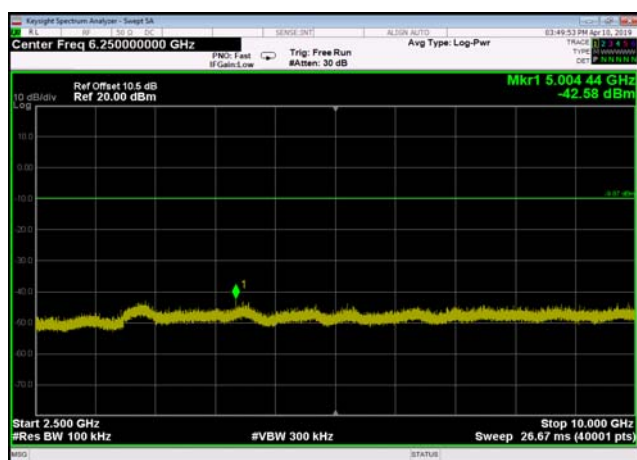
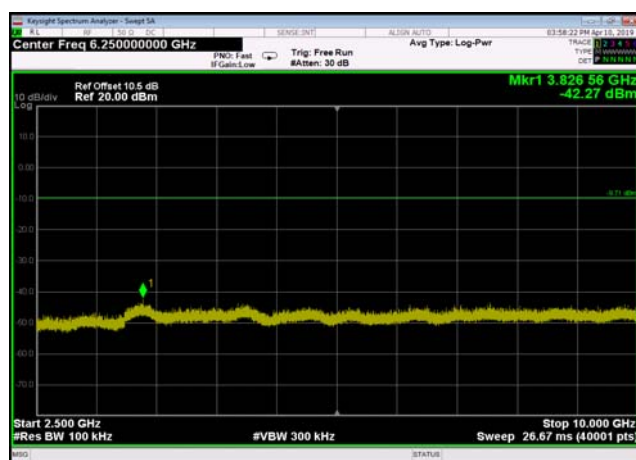
,Plot 3,30MHz~2310MHz-802.11b,2412MHz



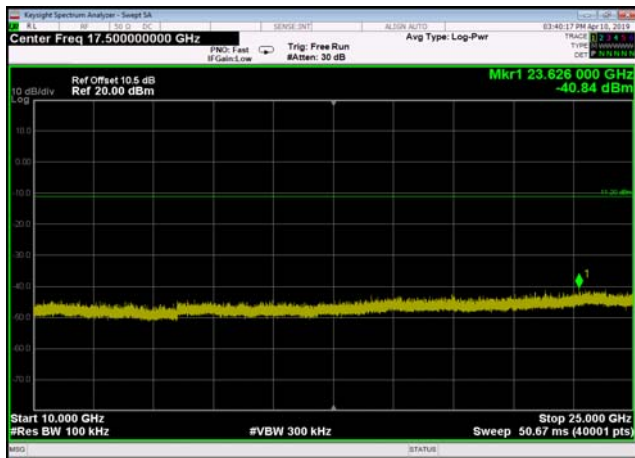
,Plot 3,30MHz~2310MHz-802.11b,2437MHz



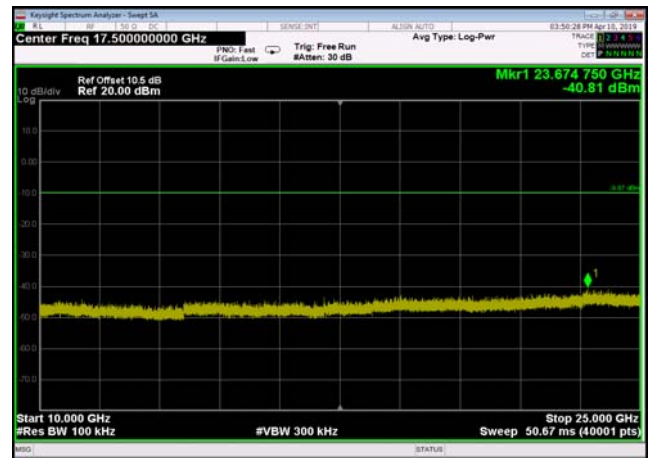
,Plot 3,30MHz~2310MHz-802.11b,2462MHz

,Plot 4,2500MHz~10000MHz-802.11b
,2412MHz,Plot 4,2500MHz~10000MHz-802.11b
,2437MHz,Plot 4,2500MHz~10000MHz-802.11b
,2462MHz

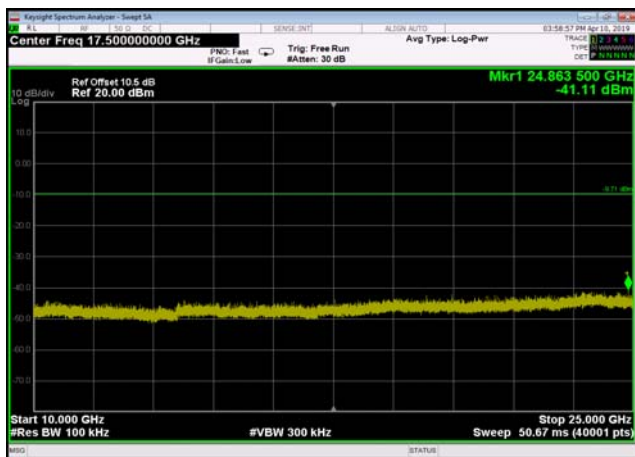
,Plot 5,10000MHz~25000MHz-802.11b
,2412MHz



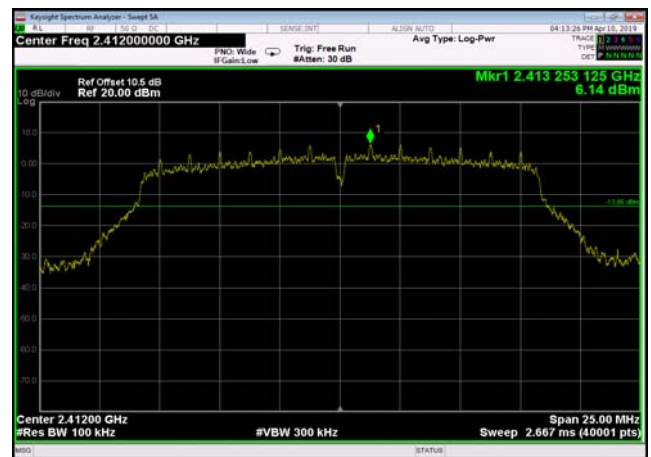
,Plot 5,10000MHz~25000MHz-802.11b
,2437MHz



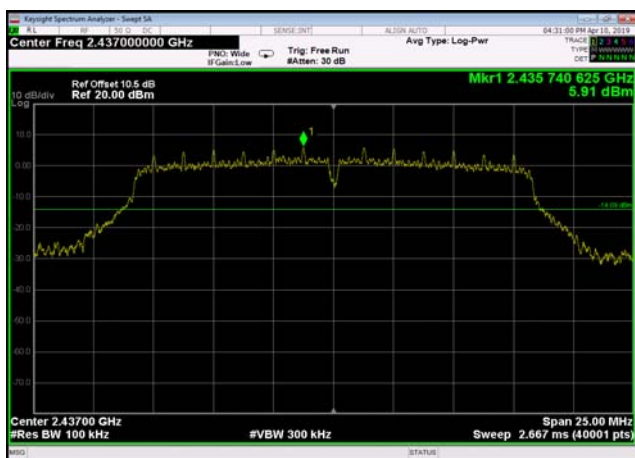
,Plot 5,10000MHz~25000MHz-802.11b
,2462MHz



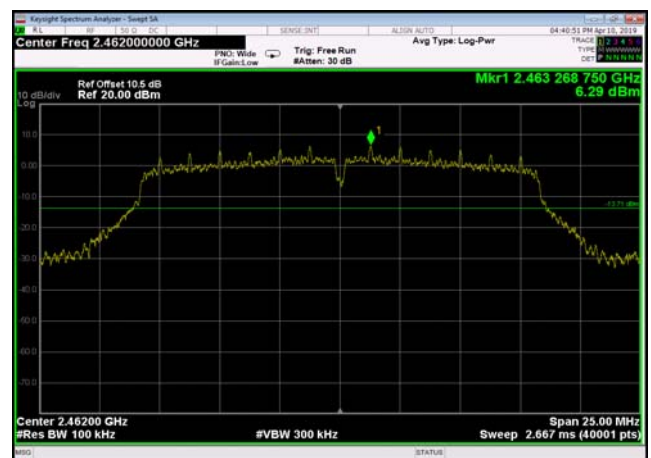
,Plot 1,Reference Level-802.11g
,2412MHz



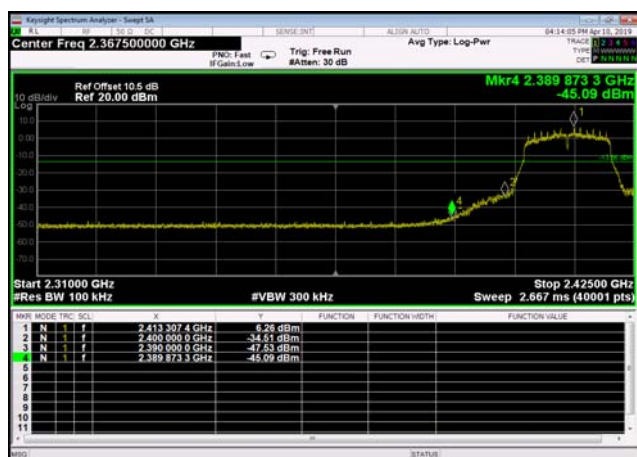
,Plot 1,Reference Level-802.11g
,2437MHz



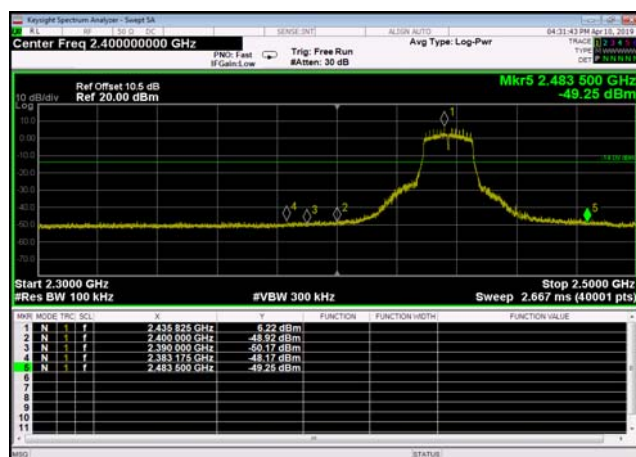
,Plot 1,Reference Level-802.11g
,2462MHz



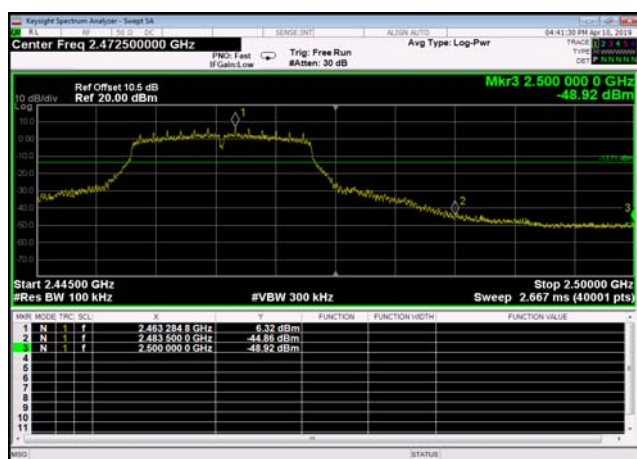
,Plot 2,Band Edge-802.11g,2412MHz



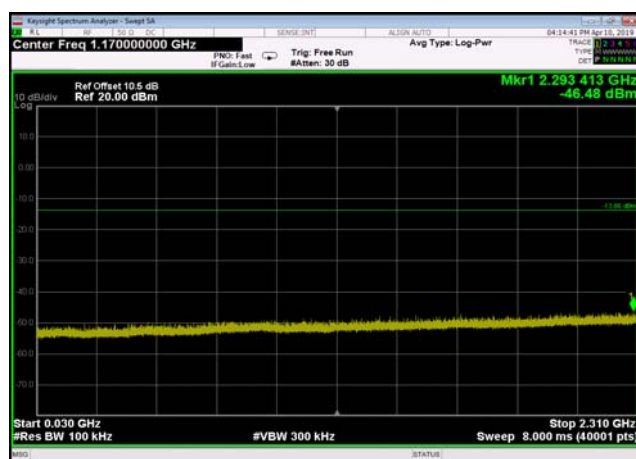
,Plot 2,Band Edge-802.11g,2437MHz



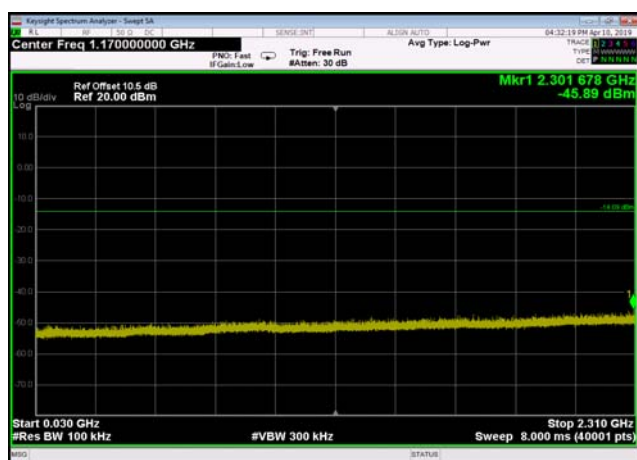
,Plot 2,Band Edge-802.11g,2462MHz



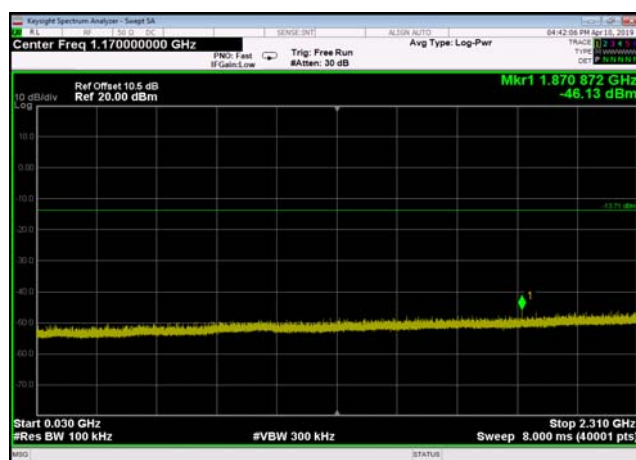
,Plot 3,30MHz~2310MHz-802.11g,2412MHz



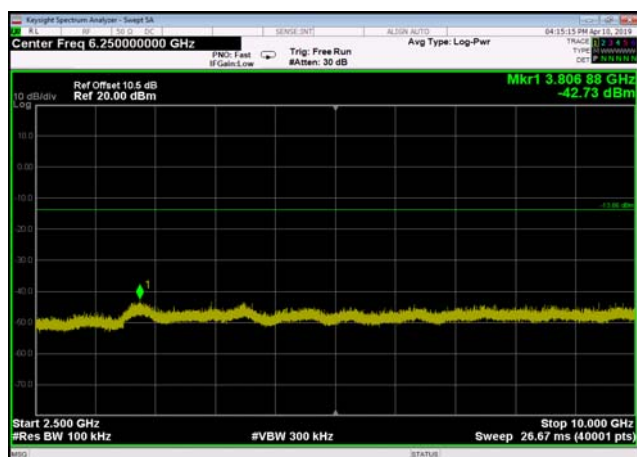
,Plot 3,30MHz~2310MHz-802.11g,2437MHz



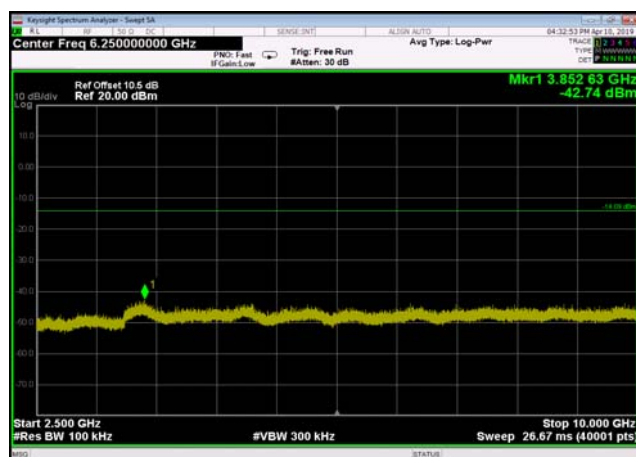
,Plot 3,30MHz~2310MHz-802.11g,2462MHz



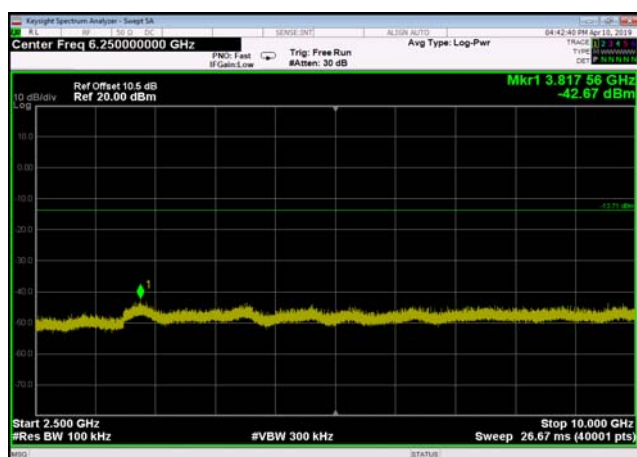
,Plot 4,2500MHz~10000MHz-802.11g
,2412MHz



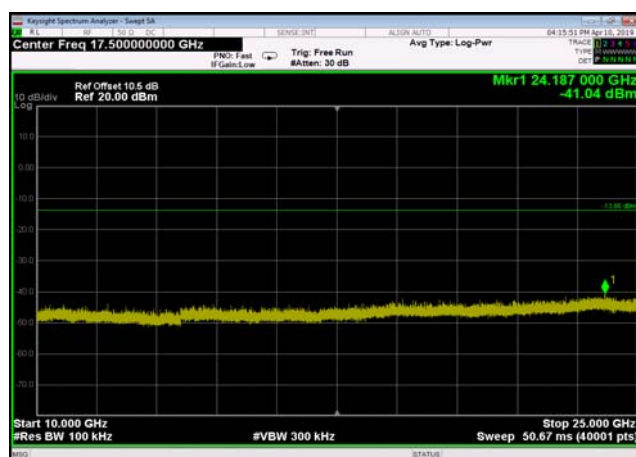
,Plot 4,2500MHz~10000MHz-802.11g
,2437MHz



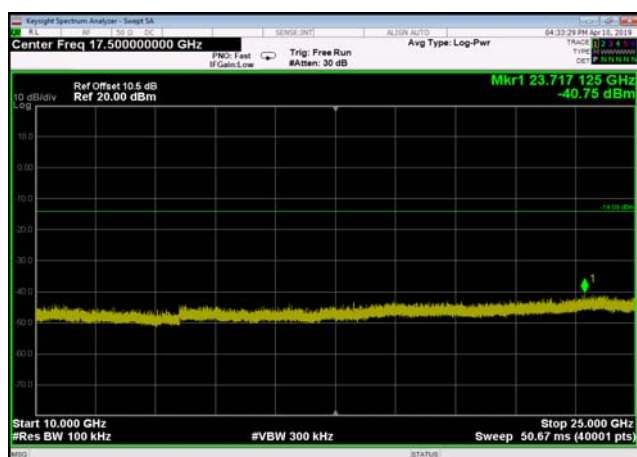
,Plot 4,2500MHz~10000MHz-802.11g
,2462MHz



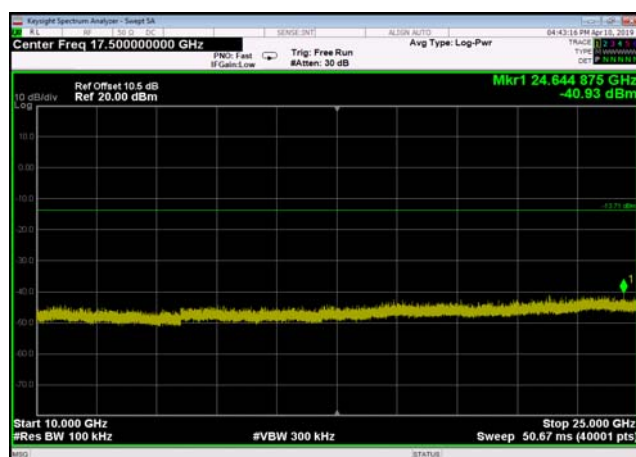
,Plot 5,10000MHz~25000MHz-802.11g
,2412MHz



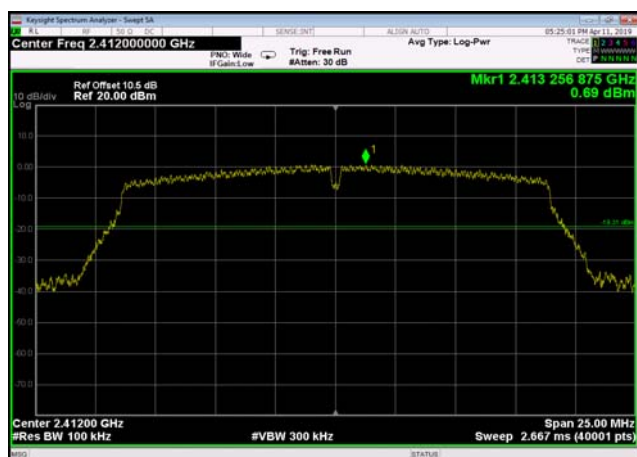
,Plot 5,10000MHz~25000MHz-802.11g
,2437MHz



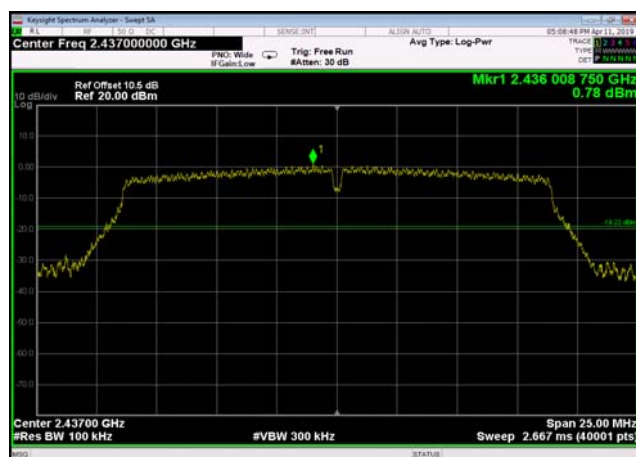
,Plot 5,10000MHz~25000MHz-802.11g
,2462MHz



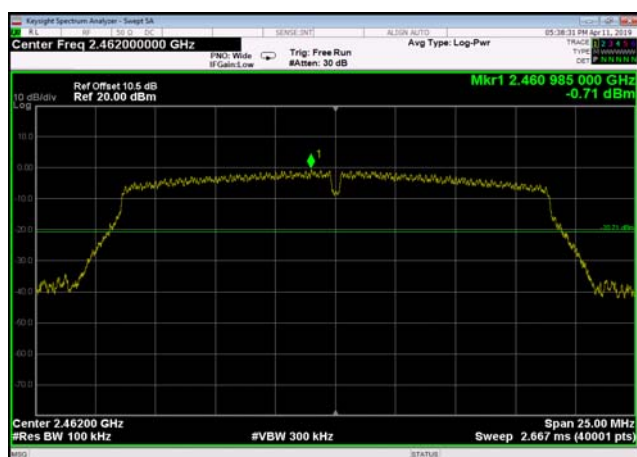
,Plot 1,Reference Level-802.11n(HT20)
,2412MHz



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



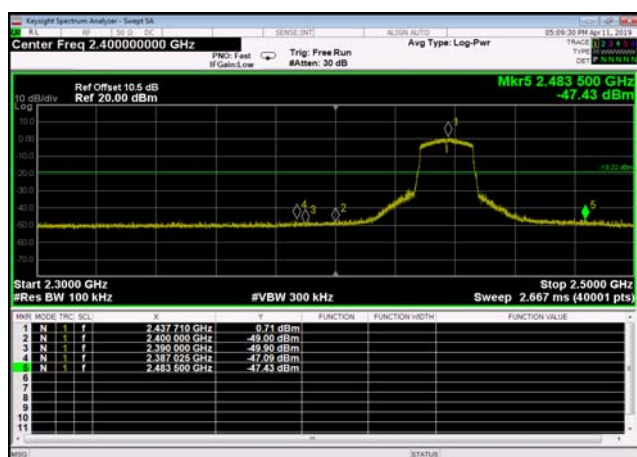
,Plot 1,Reference Level-802.11n(HT20)
,2462MHz



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



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

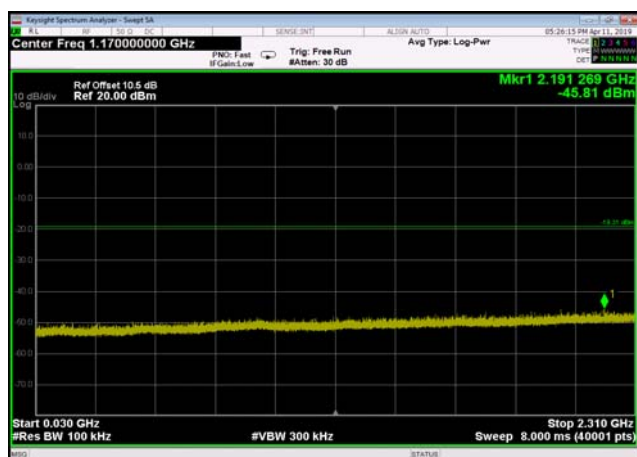


,Plot 2,Band Edge-802.11n(HT20)
,2462MHz

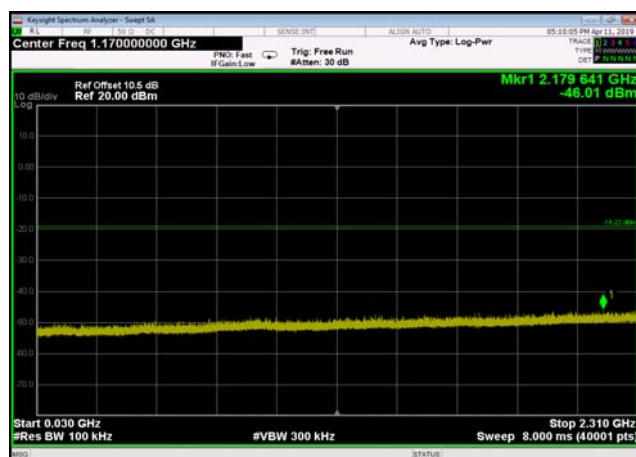




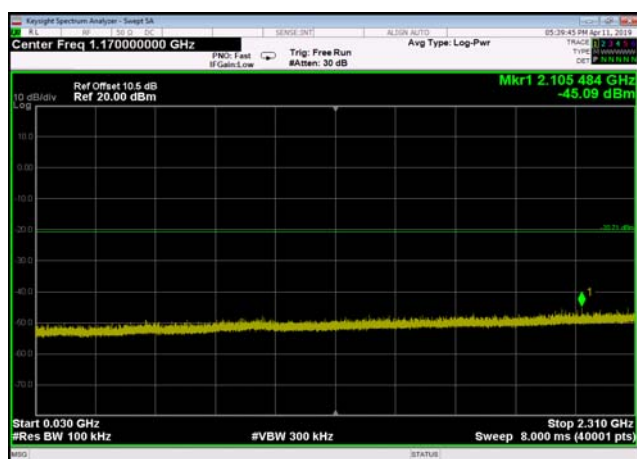
,Plot 3,30MHz~2310MHz-802.11n(HT20)
,2412MHz



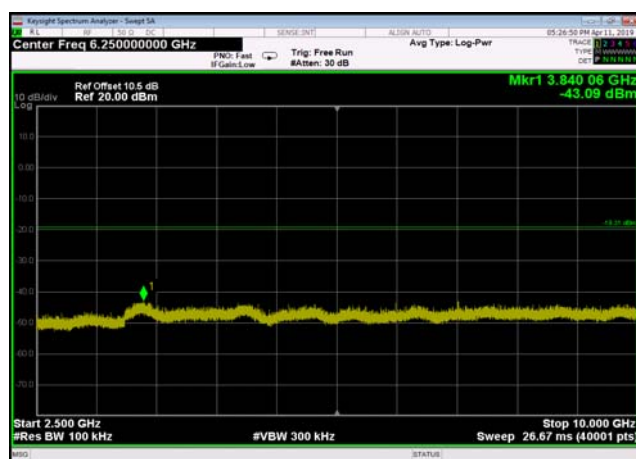
,Plot 3,30MHz~2310MHz-802.11n(HT20)
,2437MHz



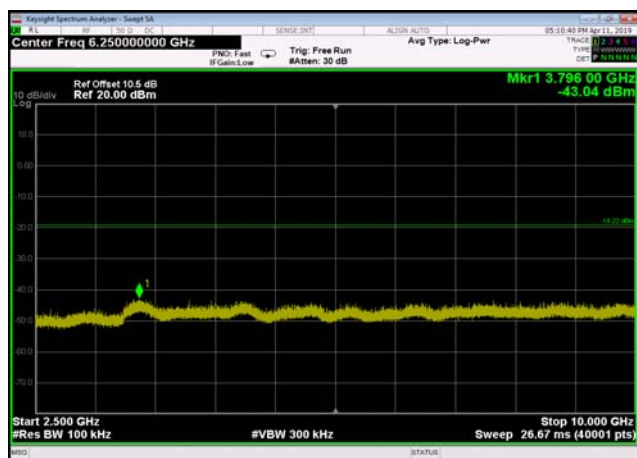
,Plot 3,30MHz~2310MHz-802.11n(HT20)
,2462MHz



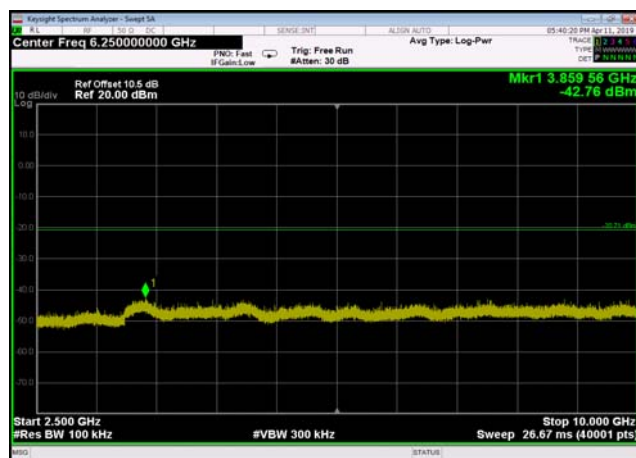
,Plot 4,2500MHz~10000MHz-802.11n(HT20)
,2412MHz



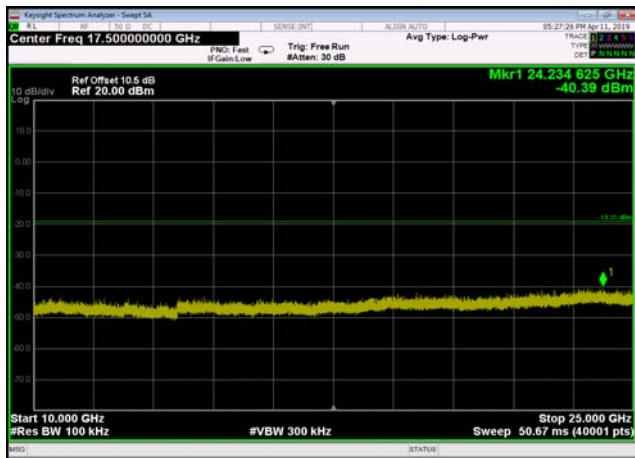
,Plot 4,2500MHz~10000MHz-802.11n(HT20)
,2437MHz



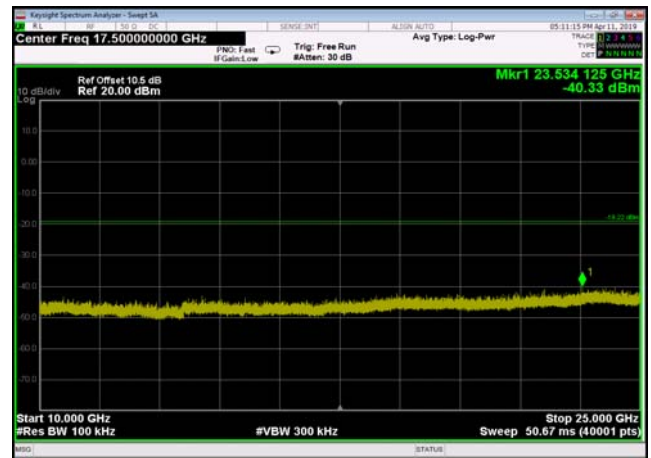
,Plot 4,2500MHz~10000MHz-802.11n(HT20)
,2462MHz



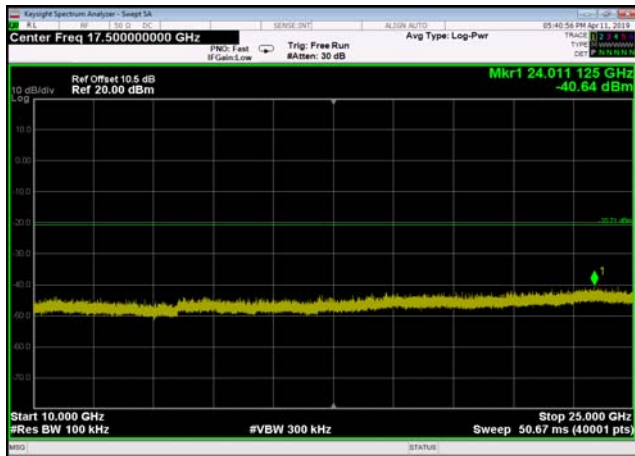
,Plot 5,10000MHz~25000MHz-802.11n(HT2
0),2412MHz



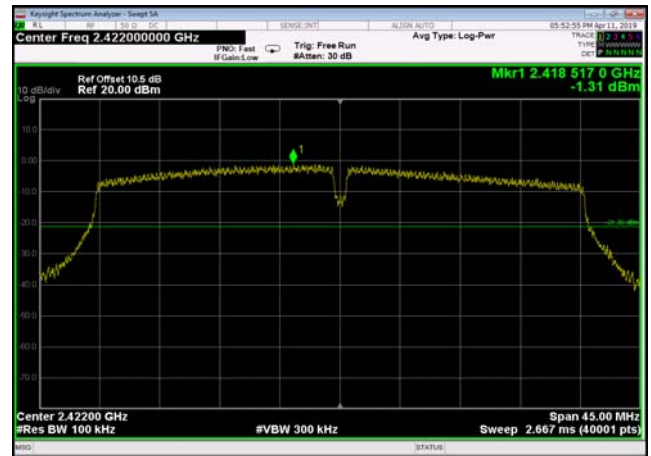
,Plot 5,10000MHz~25000MHz-802.11n(HT2
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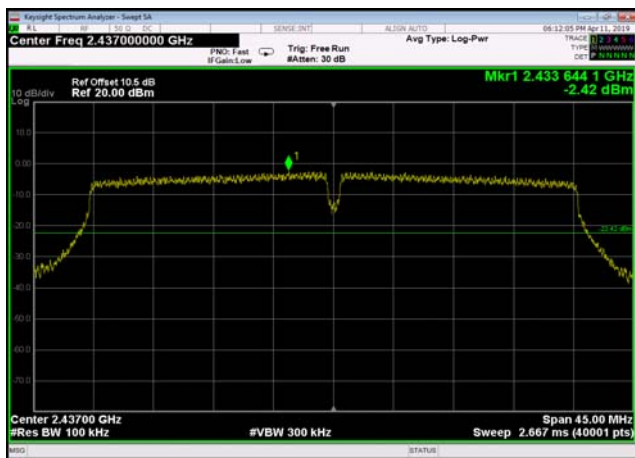
,Plot 5,10000MHz~25000MHz-802.11n(HT2
0),2462MHz



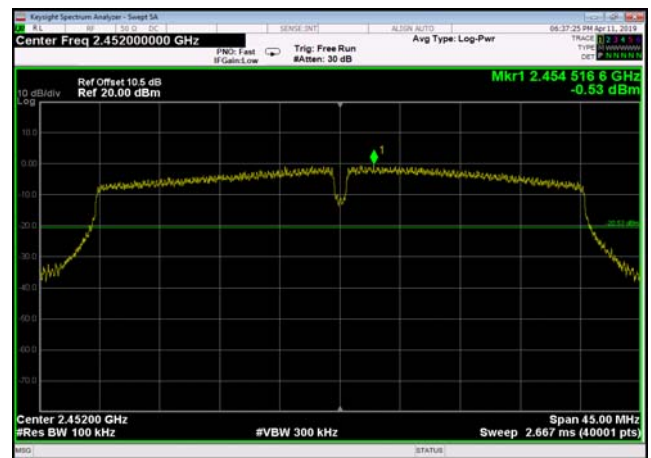
,Plot 1,Reference Level-802.11n(HT40)
,2422MHz



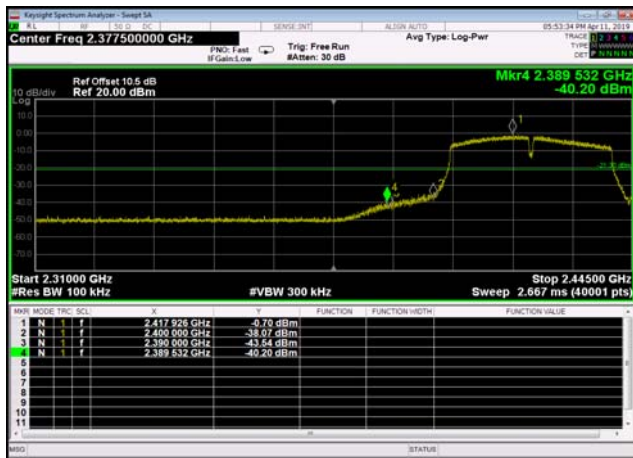
,Plot 1,Reference Level-802.11n(HT40)
,2437MHz



,Plot 1,Reference Level-802.11n(HT40)
,2452MHz



,Plot 2,Band Edge-802.11n(HT40)
,2422MHz



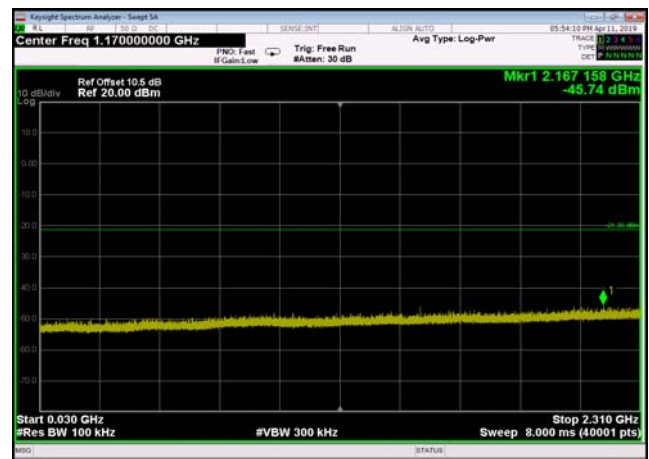
,Plot 2,Band Edge-802.11n(HT40)
,2437MHz



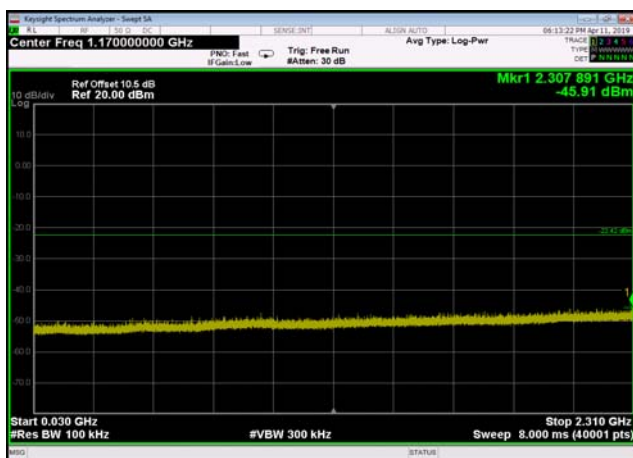
,Plot 2,Band Edge-802.11n(HT40)
,2452MHz



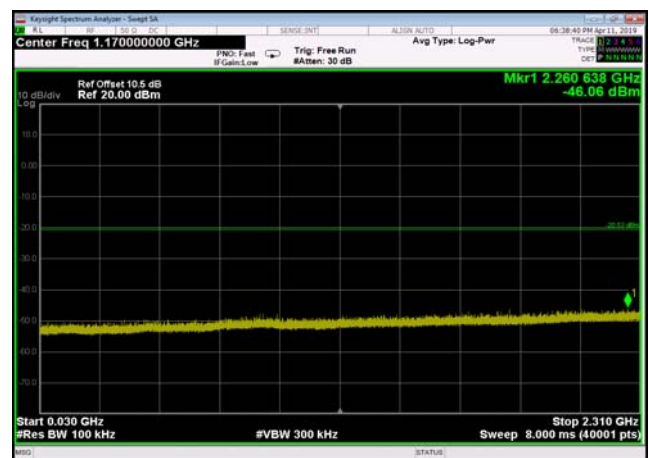
,Plot 3,30MHz~2310MHz-802.11n(HT40)
,2422MHz

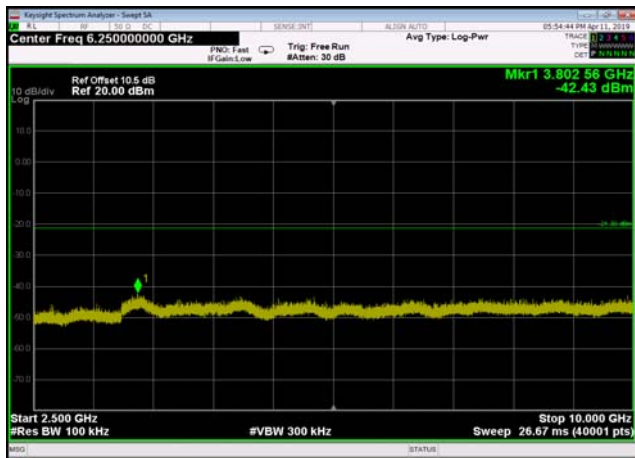
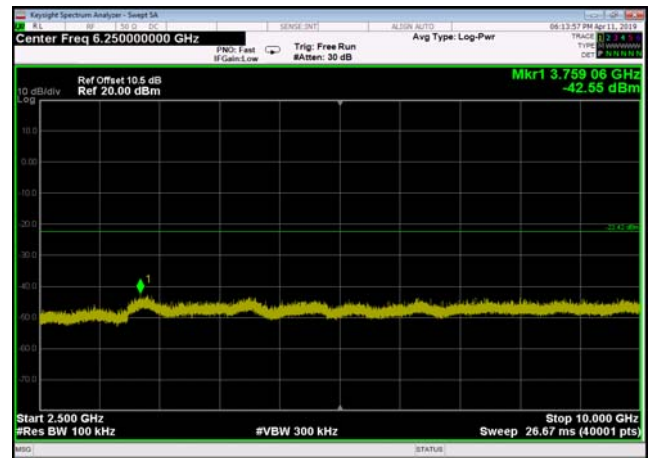
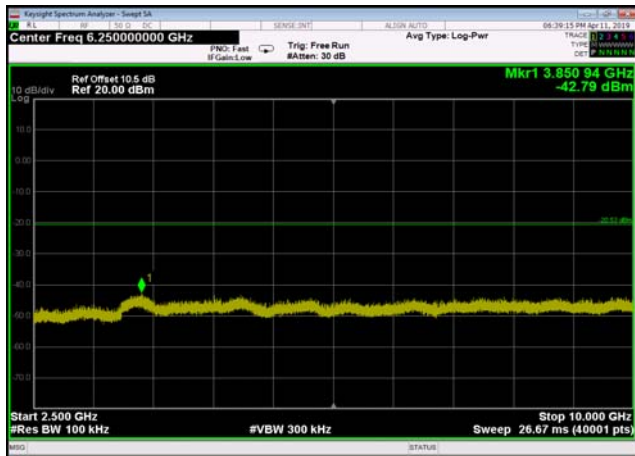
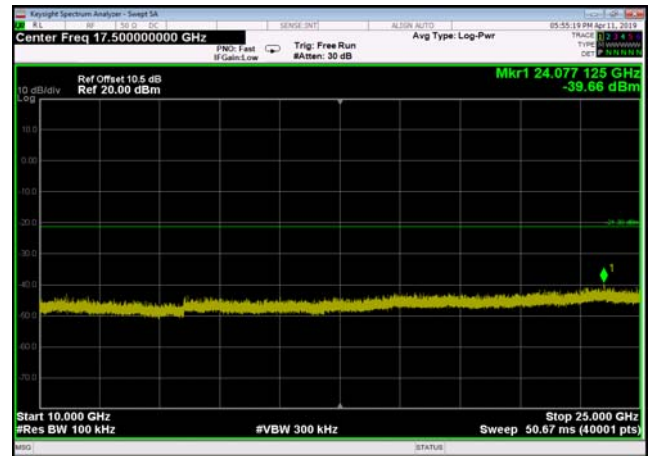
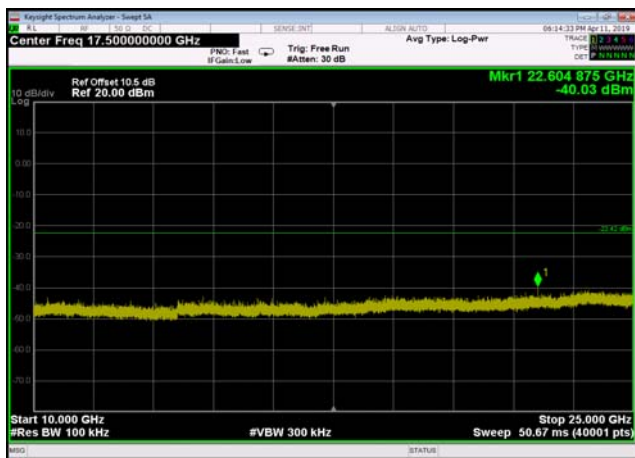
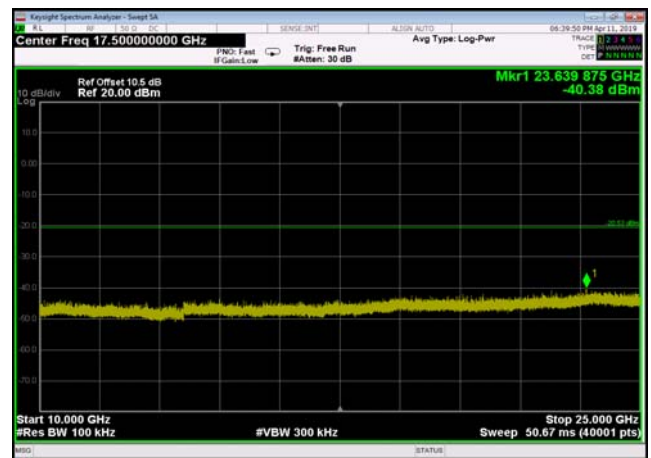


,Plot 3,30MHz~2310MHz-802.11n(HT40)
,2437MHz



,Plot 3,30MHz~2310MHz-802.11n(HT40)
,2452MHz



,Plot 4,2500MHz~10000MHz-802.11n(HT40
) ,2422MHz,Plot 4,2500MHz~10000MHz-802.11n(HT40
) ,2437MHz,Plot 4,2500MHz~10000MHz-802.11n(HT40
) ,2452MHz,Plot 5,10000MHz~25000MHz-802.11n(HT4
0) ,2422MHz,Plot 5,10000MHz~25000MHz-802.11n(HT4
0) ,2437MHz,Plot 5,10000MHz~25000MHz-802.11n(HT4
0) ,2452MHz****END OF REPORT****