

FCC Part 15C Measurement and Test Report

For

Tech Corp America

5511 NW 112 AVE #106 BORAL FL 33178 USA

FCC ID: 2AG7M-G26A

FCC Rule(s): FCC Part 15C

Product Description: Mobile Phone

Tested Model: G26A

Report No.: STR15128268I-2

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Tested By: Jason Su / Engineer

Reviewed By: Silin Chen / EMC Manager

Approved & Authorized By: Jandy So / PSQ Manager

Prepared By:

Jason Su
Silin Chen
Jandy So

Shenzhen SEM.Test Technology Co., Ltd.

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road,
Bao'an District, Shenzhen, P.R.C. (518101)

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Tech Corp America
Address of applicant: 5511 NW 112 AVE #106 BORAL FL 33178 USA

Manufacturer: GPLUS.TELECOM CO., LIMITED
Address of manufacturer: Office: Room 505-507, East Science And Technology Building,
Keyuan Road Science And Technology Park, Nanshan,
Shenzhen.

| General Description of EUT | |
|--|--|
| Product Name: | Mobile Phone |
| Brand Name: | BITCOM |
| Model No.: | G26A |
| Adapter Model: | G26A |
| | INPUT:100-240V,50/60Hz,0.2A; OUTPUT:5V,500mA |
| Hardware version: | WZ-7A E170968 TKH46682A |
| Software version: | ALPS.KK1.MP7.V1.22 |
| IMEI: | 355753051582059 / 355753051582067 |
| Rated Voltage: | DC 3.7V Li-ion Battery |
| Battery: | 1400mAh |
| Device Category: | Portable Device |
| <i>The EUT Main board support GSM850/900/DCS1800/PCS1900, WCDMA Band 2/5 function. It is intended for speech, Multimedia Message Service (MMS) transmission. It is equipped with GPRS/EDGE class 12 for GSM850/900/DCS1800/PCS1900, GPS, FM, Bluetooth and Wi-Fi functions. For more information see the following datasheet</i> | |
| <i>Note: The test data is gathered from a production sample provided by the manufacturer.</i> | |

| Technical Characteristics of EUT | |
|-----------------------------------|--|
| Support Standards: | 802.11b, 802.11g, 802.11n |
| Frequency Range: | 2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40) |
| RF Output Power: | 12.18dBm (Conducted) |
| Type of Modulation: | CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM |
| Data Rate: | 1-11Mbps, 6-54Mbps, up to 150Mbps |
| Quantity of Channels: | 11/7 |
| Channel Separation: | 5MHz |
| Type of Antenna: | Integral Antenna |
| Antenna Gain: | -0.4dBi |
| Lowest Internal frequency of EUT: | 32.768kHz |

1.2 Test Standards

The following report is prepared on behalf of the Tech Corp America in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 558074 D01 v03r04 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC – Registration No.: 934118

Shenzhen SEM.Test Technology 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 and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

1.5 EUT Setup and Test Mode

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

| Test Mode List | | |
|----------------|--------------|---------------------------|
| Test Mode | Description | Remark |
| TM1 | 802.11b | 2412MHz, 2437MHz, 2462MHz |
| TM2 | 802.11g | 2412MHz, 2437MHz, 2462MHz |
| TM3 | 802.11n-HT20 | 2412MHz, 2437MHz, 2462MHz |
| TM4 | 802.11n-HT40 | 2422MHz, 2437MHz, 2452MHz |

| EUT Cable List and Details | | | |
|----------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| USB Cable | 1.0 | Shielded | Without Ferrite |
| Earphone | 1.15 | Unshielded | Without Ferrite |

| Special Cable List and Details | | | |
|--------------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| Auxiliary Equipment List and Details | | | |
|--------------------------------------|--------------|-------|---------------|
| Description | Manufacturer | Model | Serial Number |
| / | / | / | / |

1.6 Test Equipment List and Details

| Description | Manufacturer | Model | Serial Number | Cal Date | Due Date |
|-------------------|-----------------|-----------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4407B | MY41440400 | 2015-06-17 | 2016-06-16 |
| Spectrum Analyzer | Rohde & Schwarz | FSP | 836079/035 | 2015-06-17 | 2016-06-16 |
| EMI Test Receiver | Rohde & Schwarz | ESVB | 825471/005 | 2015-06-17 | 2016-06-16 |
| Amplifier | Agilent | 8447F | 3113A06717 | 2015-06-17 | 2016-06-16 |
| Amplifier | C&D | PAP-1G18 | 2002 | 2015-06-17 | 2016-06-16 |
| Broadband Antenna | Schwarz beck | VULB9163 | 9163-333 | 2015-06-17 | 2016-06-16 |
| Horn Antenna | ETS | 3117 | 00086197 | 2015-06-17 | 2016-06-16 |
| Horn Antenna | ETS | 3116B | 00088203 | 2015-06-17 | 2016-06-16 |
| Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2015-06-17 | 2016-06-16 |
| EMI Test Receiver | Rohde & Schwarz | ESPI | 101611 | 2015-06-17 | 2016-06-16 |
| L.I.S.N | Schwarz beck | NSLK8126 | 8126-224 | 2015-06-17 | 2016-06-16 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100911 | 2015-06-17 | 2016-06-16 |

2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item | Result |
|-----------------------------|-----------------------------------|-----------|
| § 2.1093 | RF Exposure | Compliant |
| § 15.203; § 15.247(b)(4)(i) | Antenna Requirement | Compliant |
| § 15.207(a) | Conducted Emission | Compliant |
| § 15.247(e) | Power Spectral Density | Compliant |
| § 15.247(a)(2) | 6 dB Bandwidth | Compliant |
| § 15.247(b)(3) | RF Output Power | Compliant |
| § 15.209(a) | Radiated Emission | Compliant |
| § 15.247(d) | Band Edge (Out of Band Emissions) | Compliant |

N/A: not applicable

3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the SAR Report.

4. Antenna Requirement

4.1 Standard Applicable

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

4.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.

5. Power Spectral Density

5.1 Standard Applicable

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

5.2 Test Procedure

According to the KDB 558074 D01 v03r04, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

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

5.3 Environmental Conditions

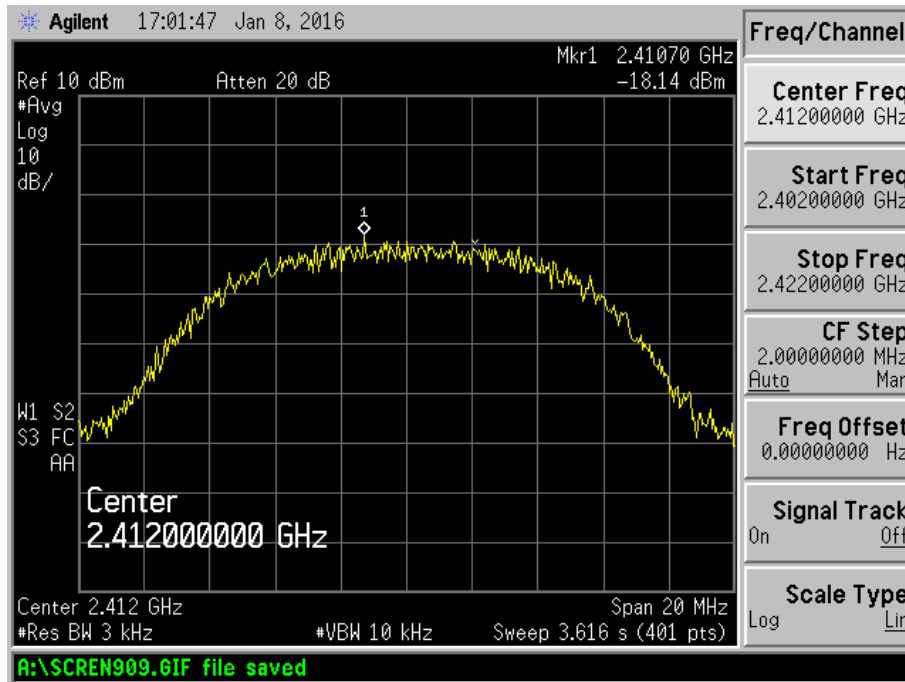
| | |
|--------------------|-----------|
| Temperature: | 26° C |
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

5.4 Summary of Test Results/Plots

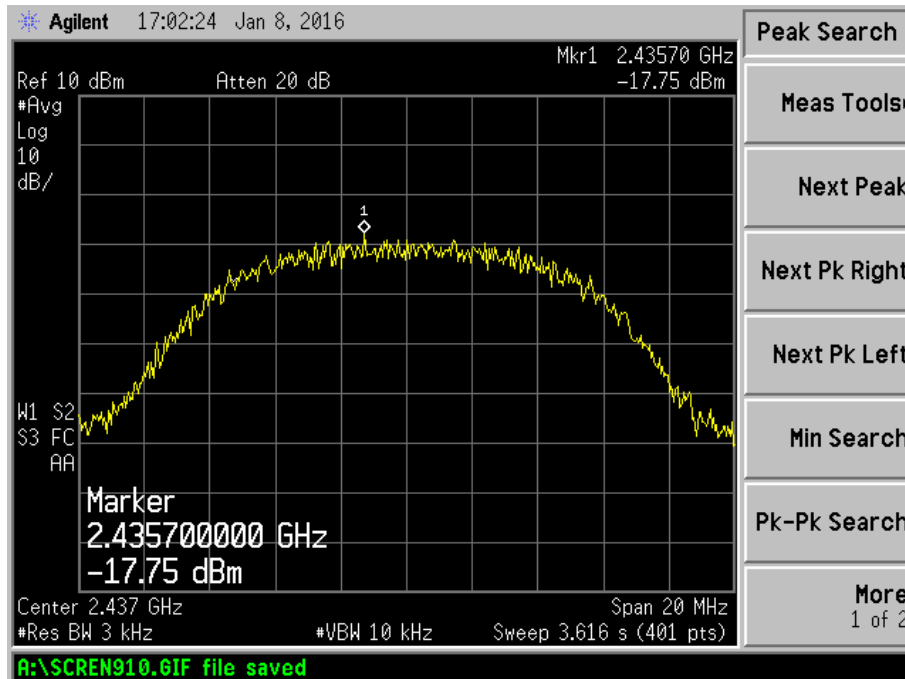
| Test Mode | Test Channel MHz | Power Spectral Density dBm/3kHz | Limit dBm/3kHz |
|--------------|---------------------|------------------------------------|-------------------|
| 802.11b | 2412 | -18.14 | 8 |
| | 2437 | -17.75 | 8 |
| | 2462 | -17.98 | 8 |
| 802.11g | 2412 | -23.08 | 8 |
| | 2437 | -23.51 | 8 |
| | 2462 | -23.55 | 8 |
| 802.11n HT20 | 2412 | -23.82 | 8 |
| | 2437 | -23.80 | 8 |
| | 2462 | -23.94 | 8 |
| 802.11n HT40 | 2422 | -29.38 | 8 |
| | 2437 | -29.26 | 8 |
| | 2452 | -29.47 | 8 |

Please refer to the following test plots:

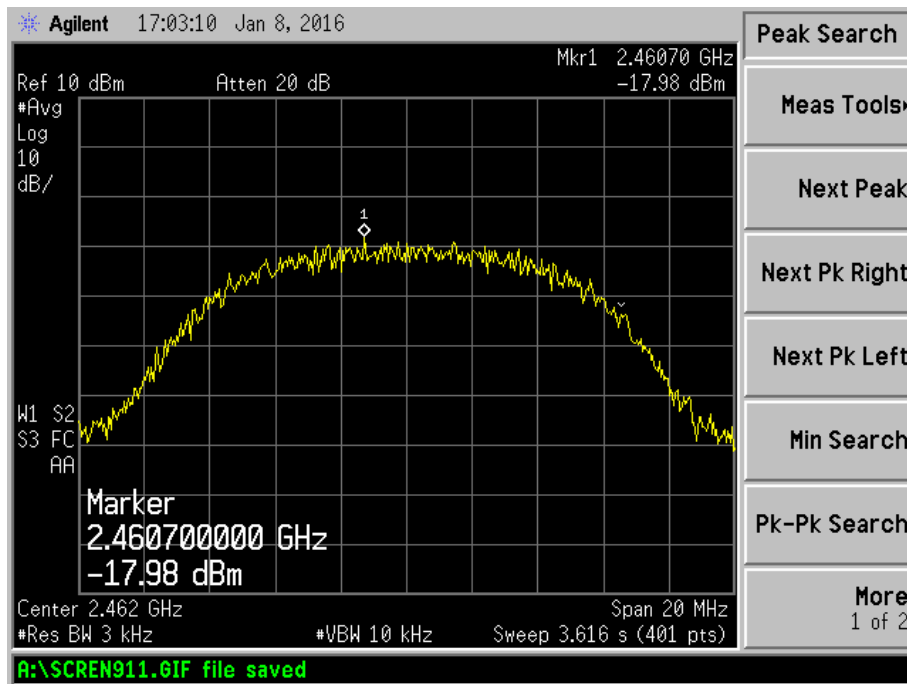
802.11b-Low Channel



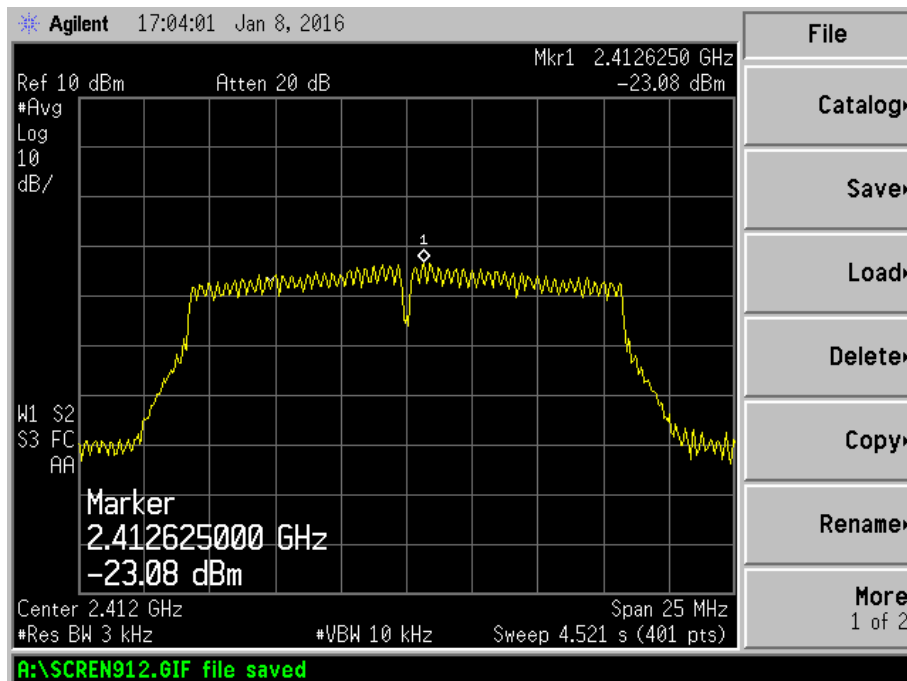
802.11b-Middle Channel



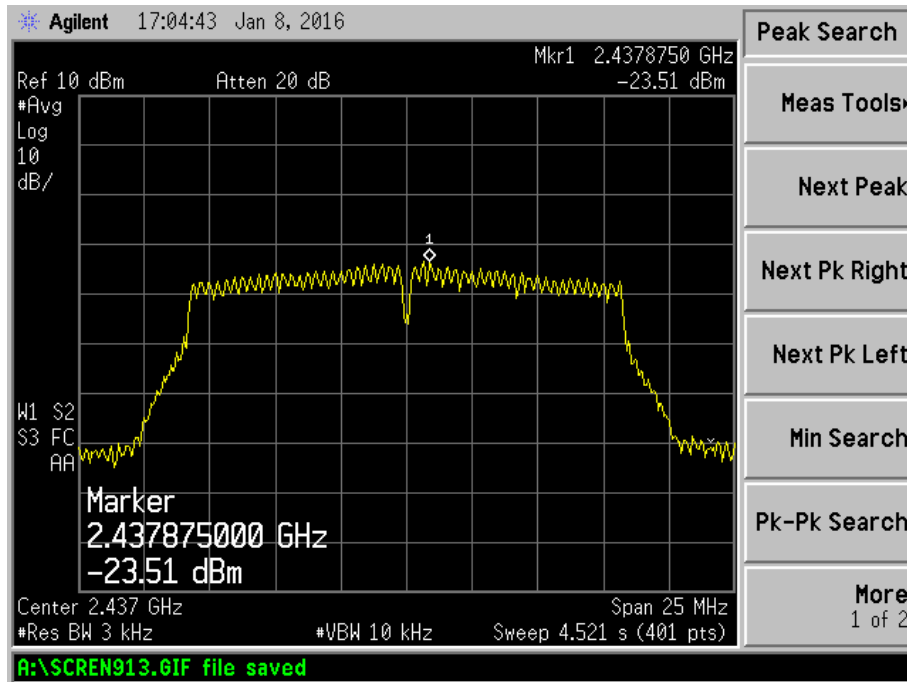
802.11b-High Channel



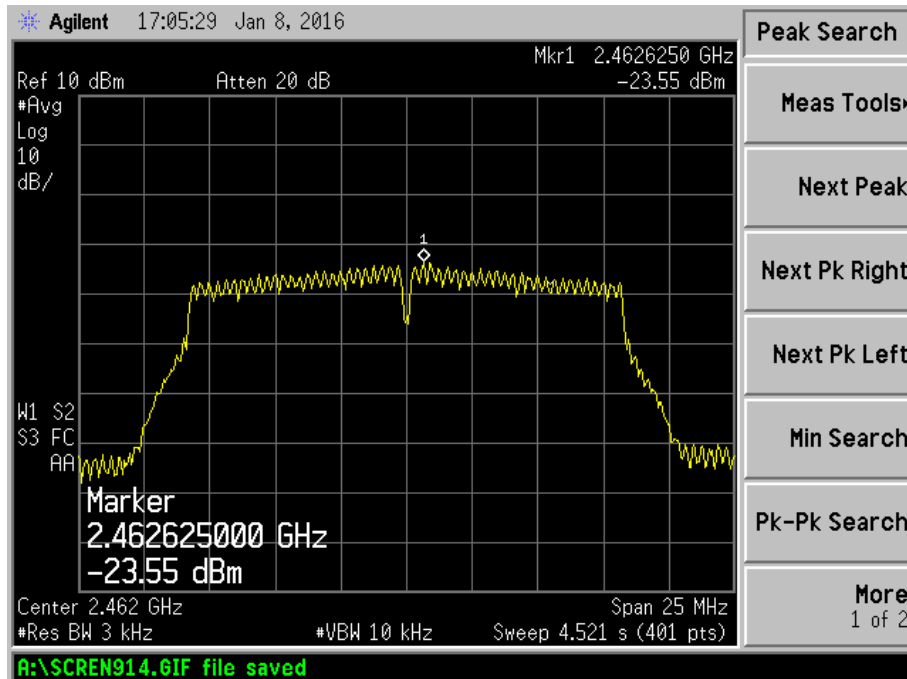
802.11g-Low Channel



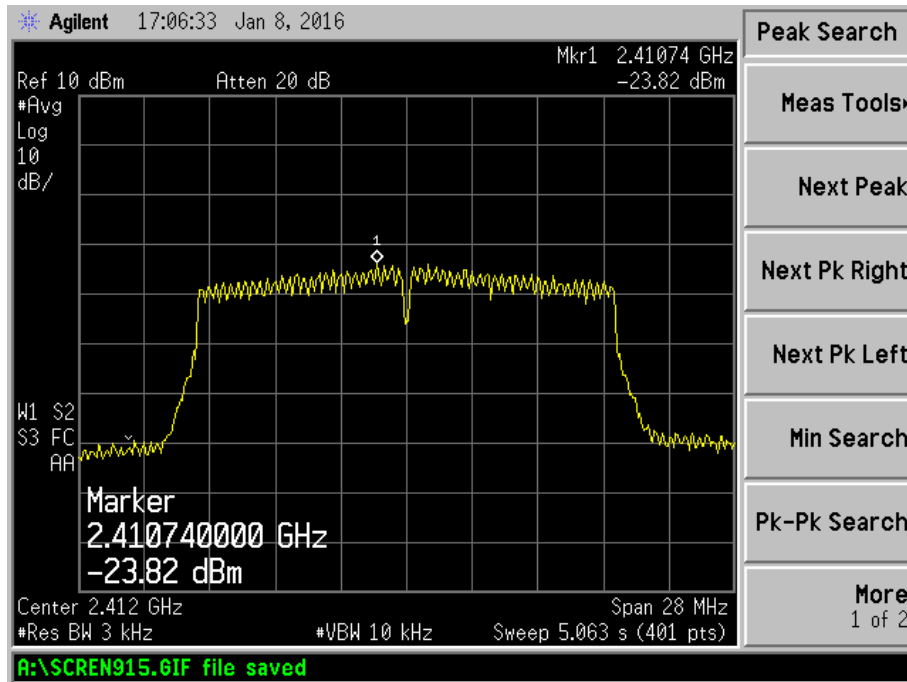
802.11g-Middle Channel



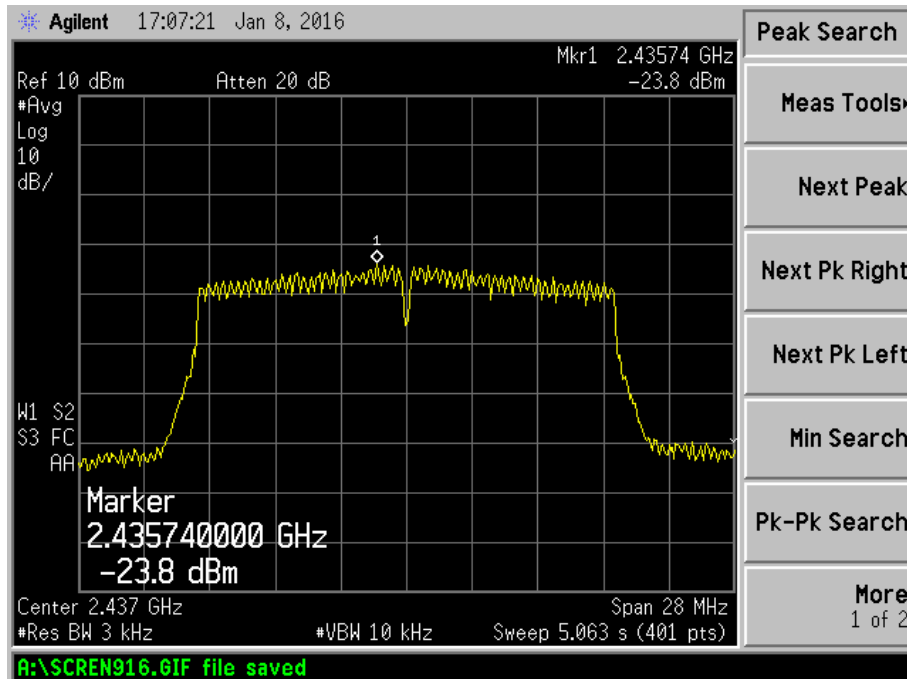
802.11g-High Channel



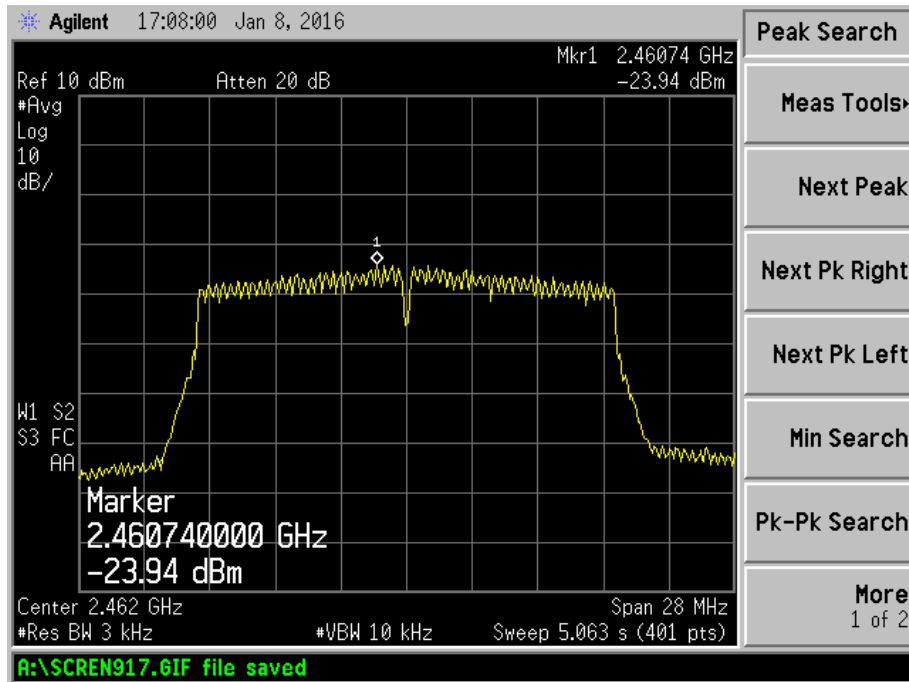
802.11n-HT20-Low Channel



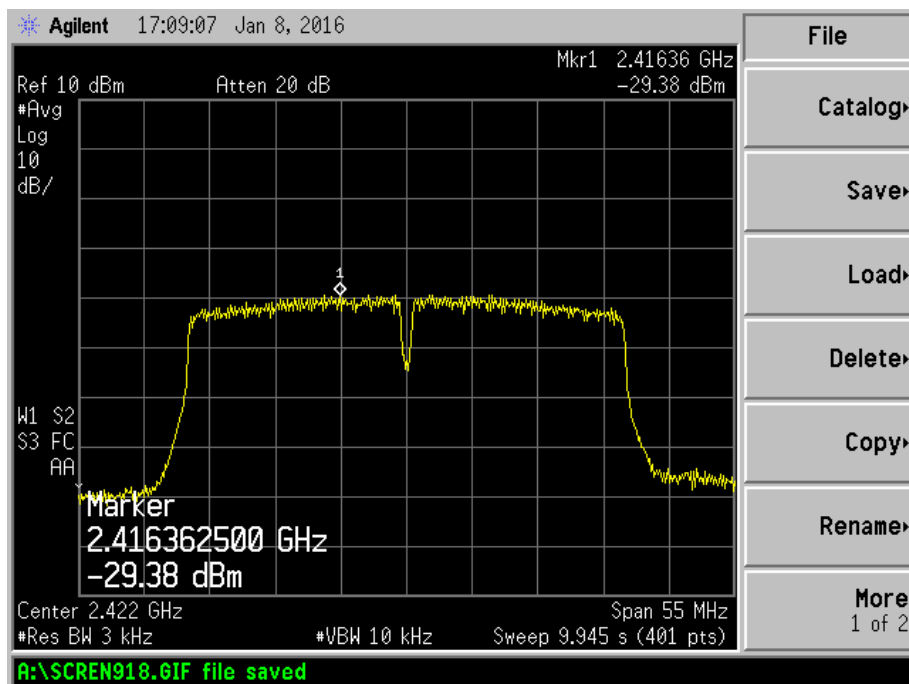
802.11n-HT20-Middle Channel



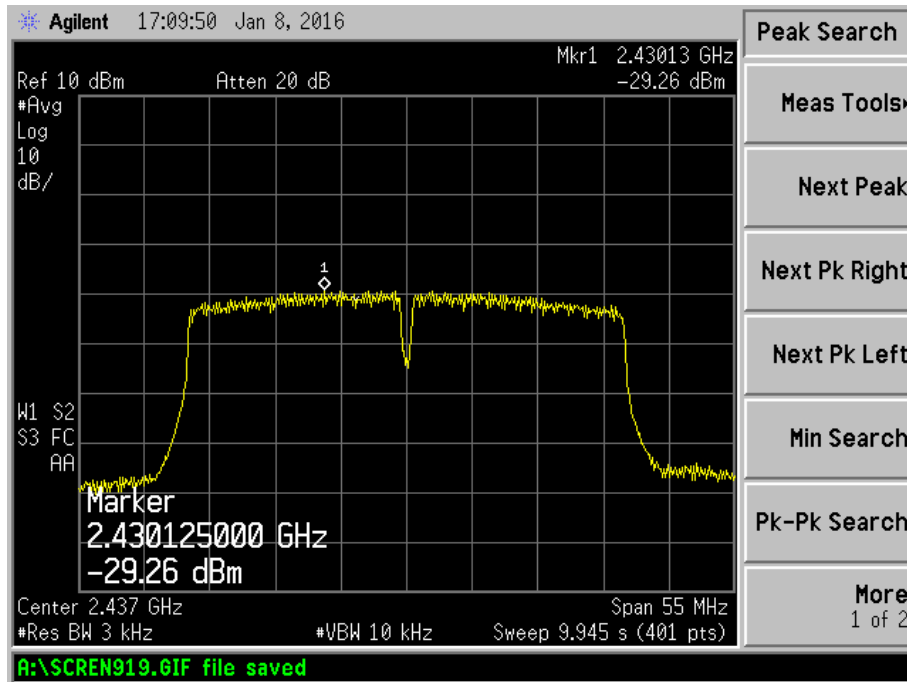
802.11n-HT20-High Channel



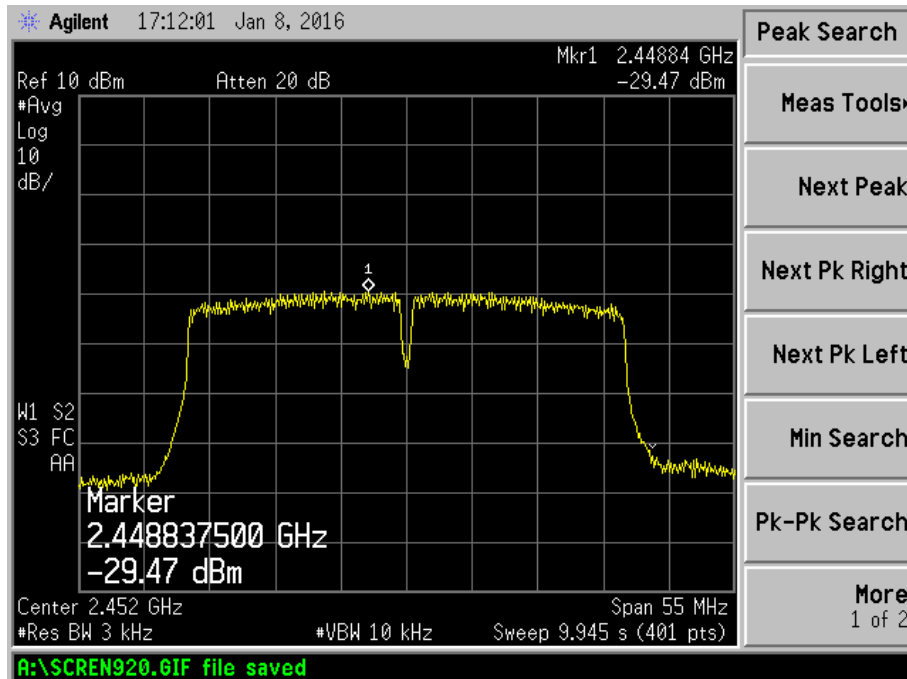
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

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

6.2 Test Procedure

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

6.3 Environmental Conditions

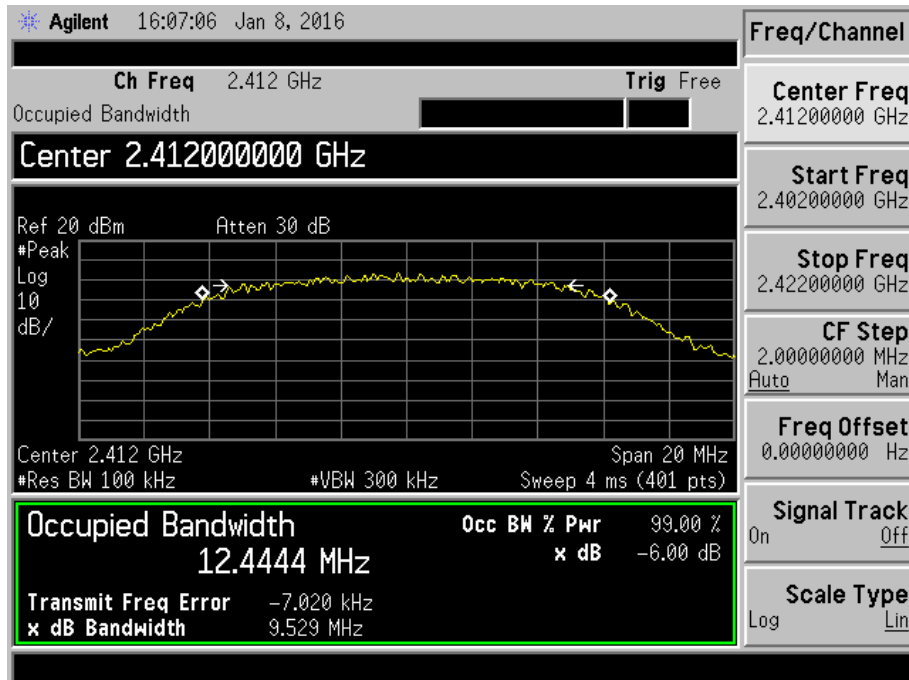
| | |
|--------------------|-----------|
| Temperature: | 25° C |
| Relative Humidity: | 53% |
| ATM Pressure: | 1018 mbar |

6.4 Summary of Test Results/Plots

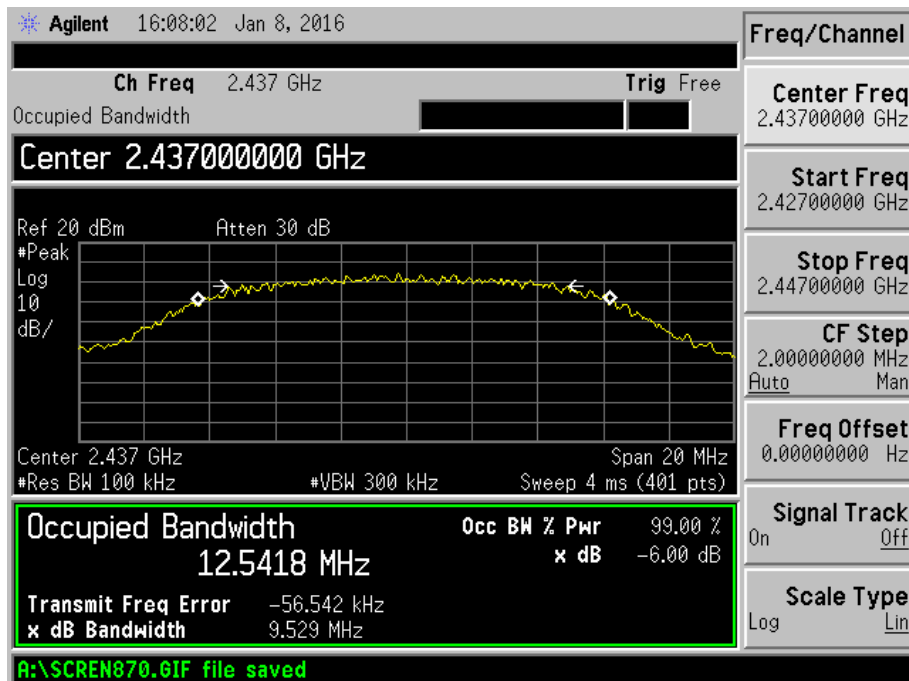
| Test Mode | Test Channel MHz | 6 dB Bandwidth MHz | 99% Bandwidth MHz | Limit kHz |
|--------------|------------------|--------------------|-------------------|------------|
| 802.11b | 2412 | 9.529 | 12.4444 | ≥ 500 |
| | 2437 | 9.529 | 12.5418 | ≥ 500 |
| | 2462 | 9.632 | 12.5017 | ≥ 500 |
| 802.11g | 2412 | 16.463 | 16.3592 | ≥ 500 |
| | 2437 | 16.488 | 16.3750 | ≥ 500 |
| | 2462 | 16.379 | 16.3212 | ≥ 500 |
| 802.11n-HT20 | 2412 | 17.318 | 17.5384 | ≥ 500 |
| | 2437 | 17.672 | 17.5439 | ≥ 500 |
| | 2462 | 17.465 | 17.4975 | ≥ 500 |
| 802.11n-HT40 | 2422 | 36.348 | 35.8090 | ≥ 500 |
| | 2437 | 35.807 | 35.8238 | ≥ 500 |
| | 2452 | 36.056 | 35.8182 | ≥ 500 |

Please refer to the following test plots:

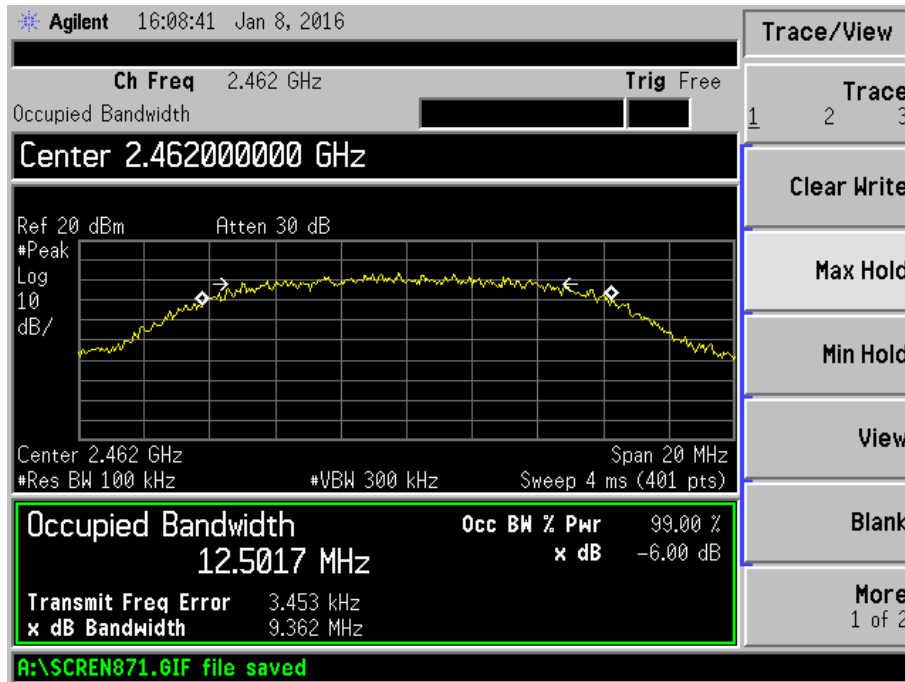
802.11b-Low Channel



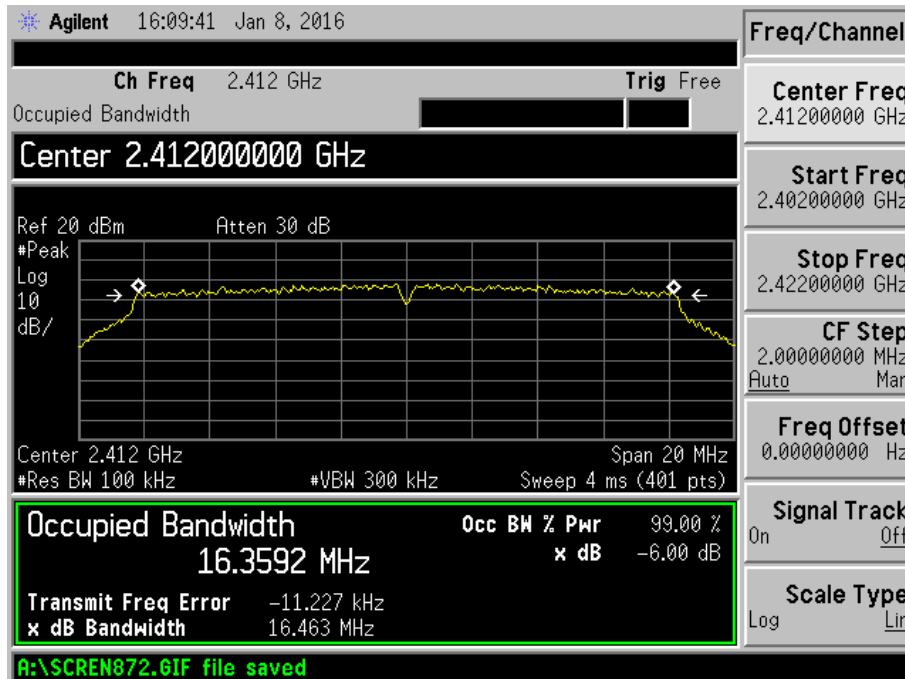
802.11b-Middle Channel



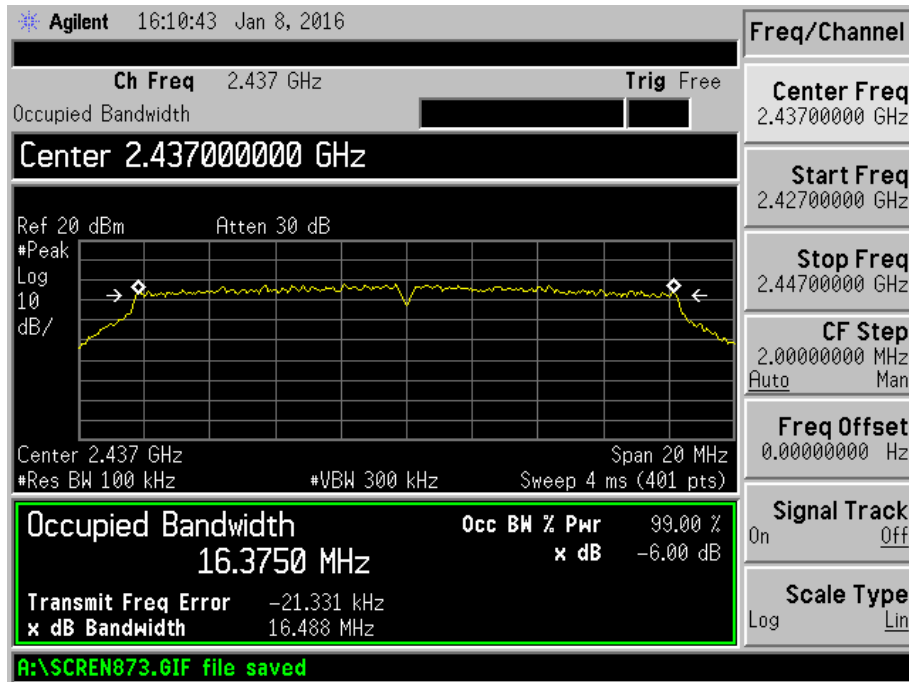
802.11b-High Channel



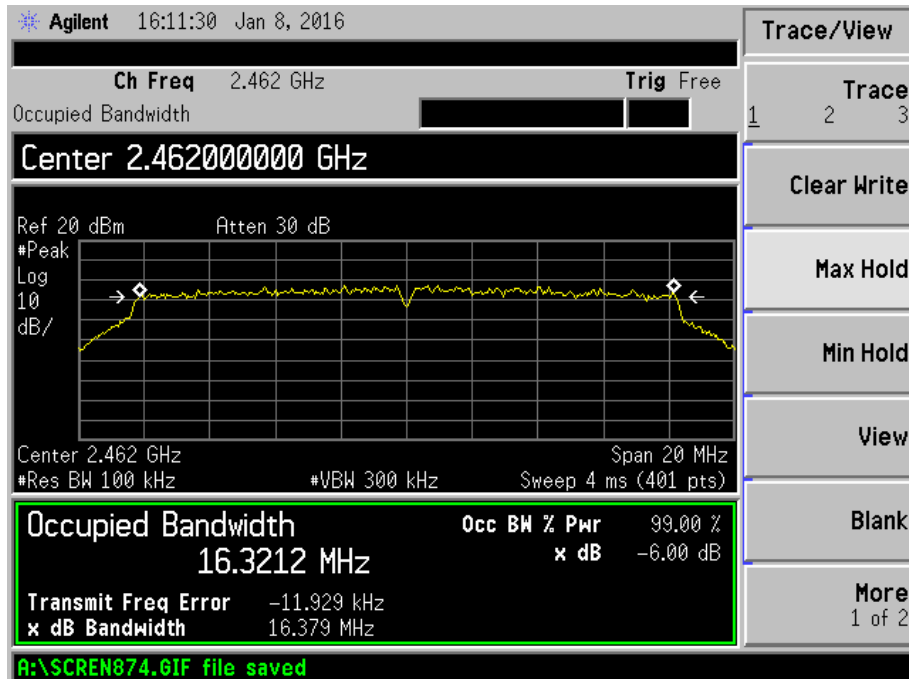
802.11g-Low Channel



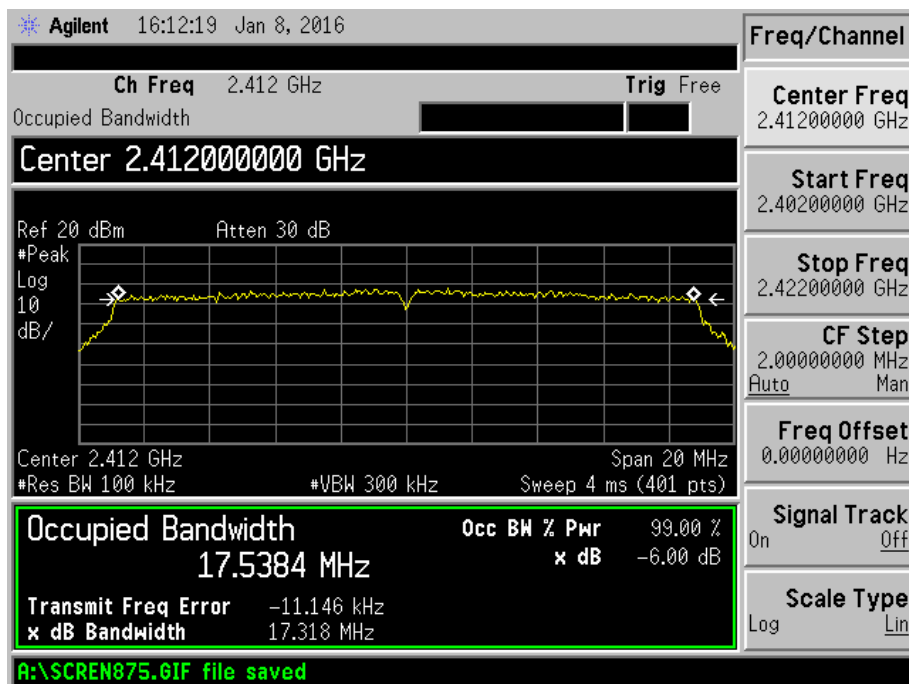
802.11g-Middle Channel



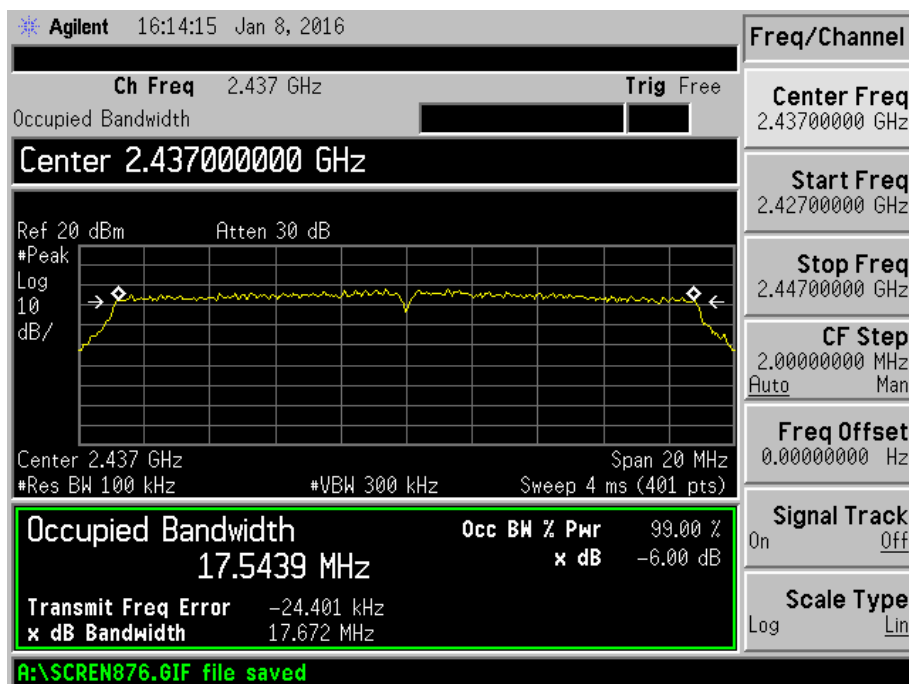
802.11g-High Channel



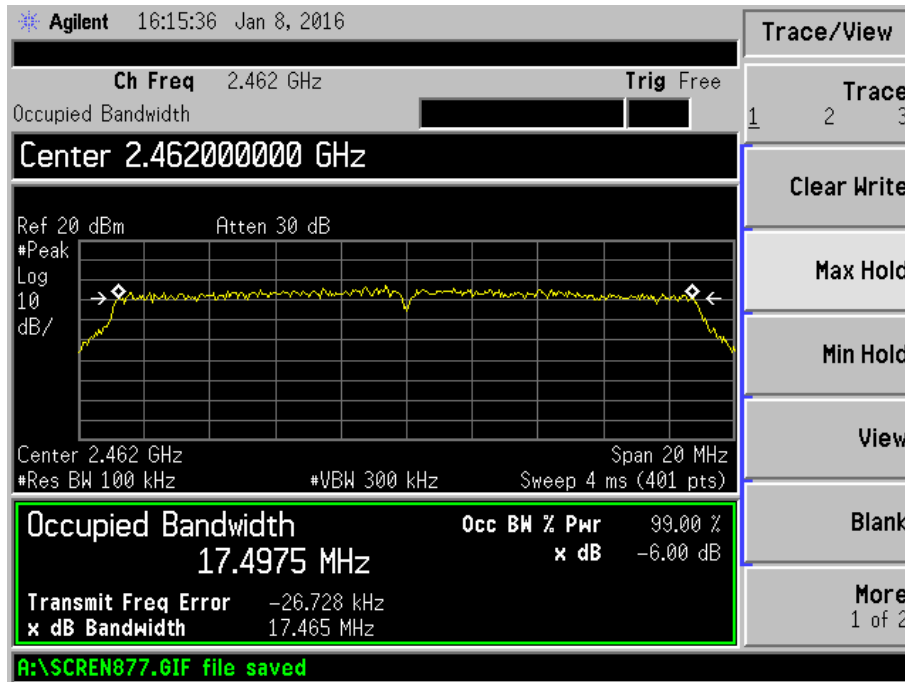
802.11n-HT20-Low Channel



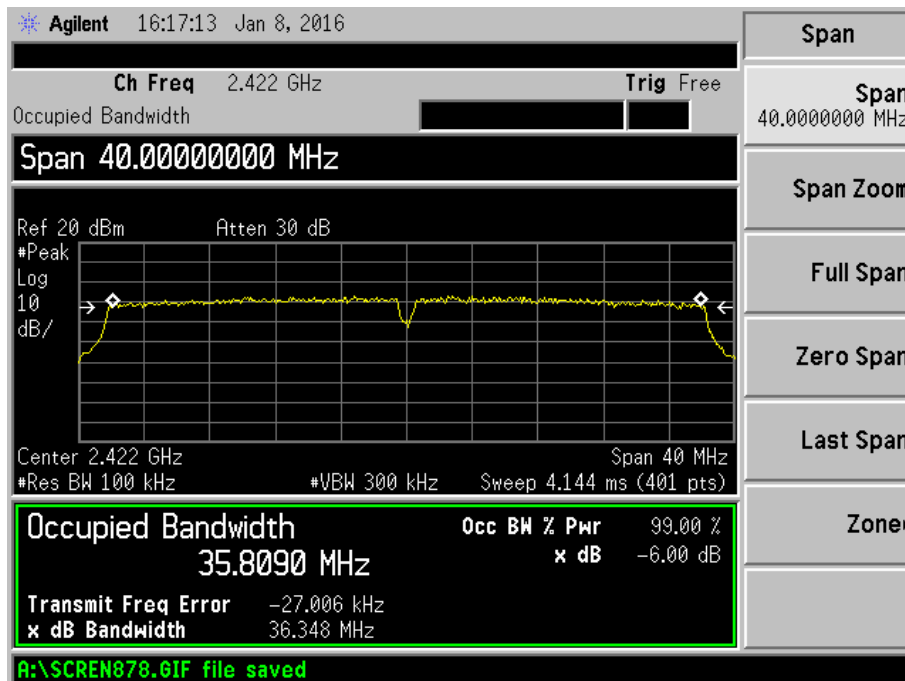
802.11n-HT20-Middle Channel



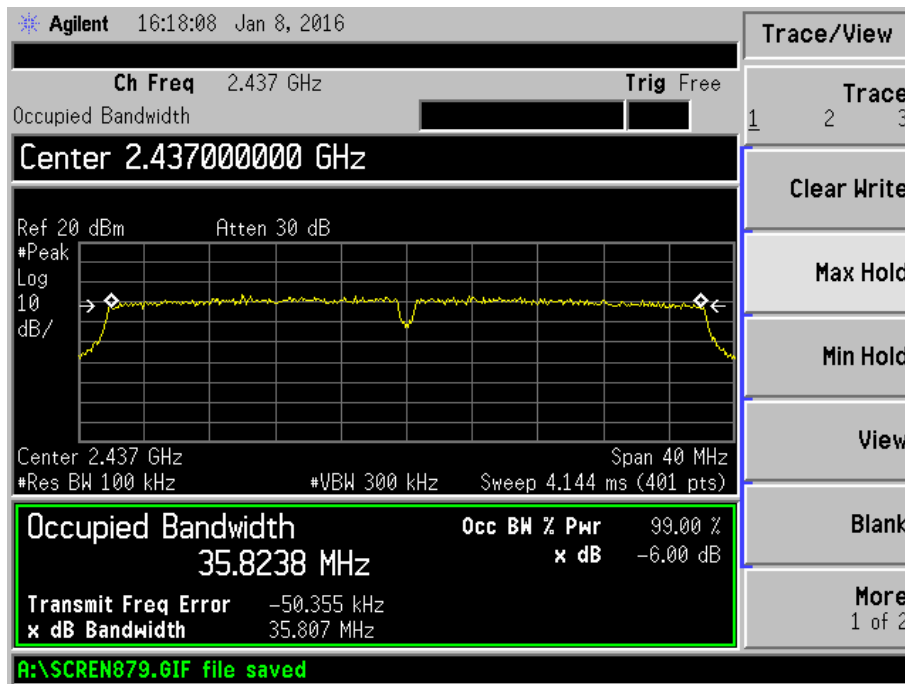
802.11n-HT20-High Channel



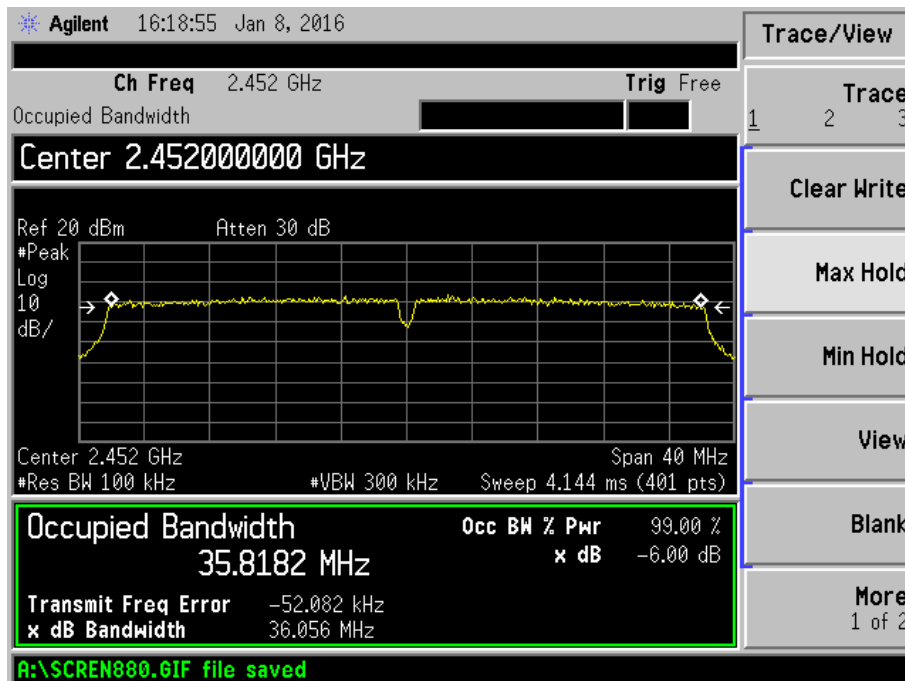
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



7. RF Output Power

7.1 Standard Applicable

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

7.2 Test Procedure

According to KDB-558074 D01 v03r04, 9.2.2.2 (channel integration method) When this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

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

7.3 Environmental Conditions

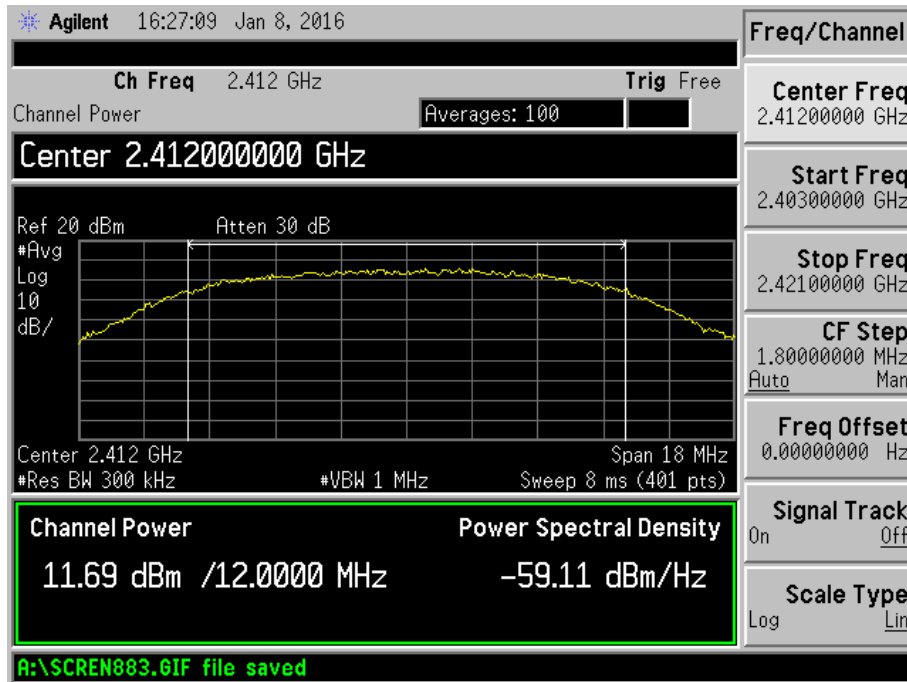
| | |
|--------------------|-----------|
| Temperature: | 26° C |
| Relative Humidity: | 57% |
| ATM Pressure: | 1011 mbar |

7.4 Summary of Test Results/Plots

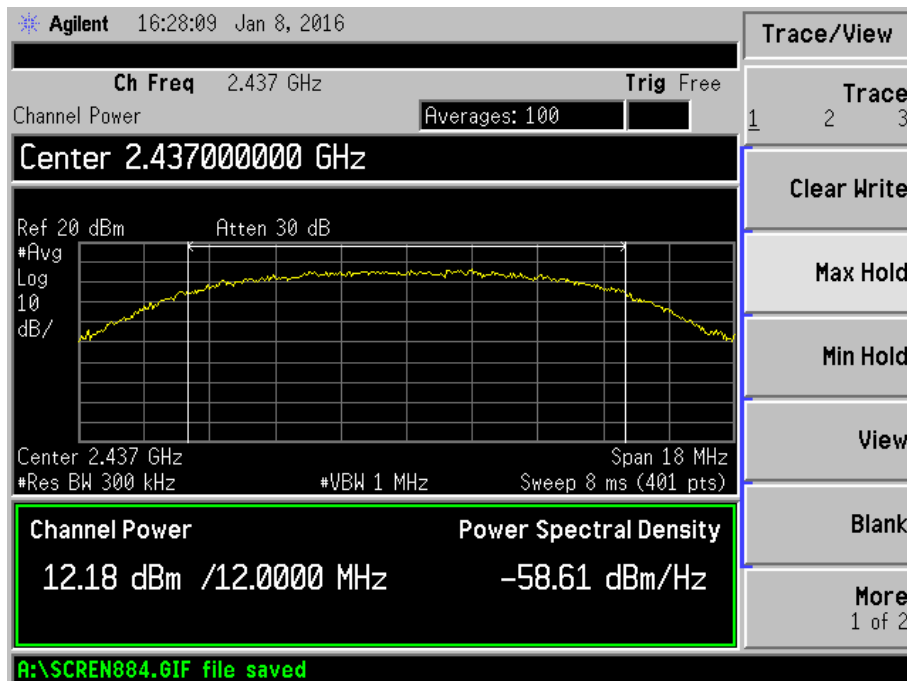
| Test Mode | Frequency MHz | Reading dBm | Output Power mW | Limit mW |
|-------------------|------------------|----------------|--------------------|-------------|
| 802.11b_11Mbps | 2412 | 11.69 | 14.76 | 1000 |
| | 2437 | 12.18 | 16.52 | 1000 |
| | 2462 | 12.15 | 16.41 | 1000 |
| 802.11g_54Mbps | 2412 | 9.47 | 8.85 | 1000 |
| | 2437 | 9.19 | 8.30 | 1000 |
| | 2462 | 8.90 | 7.76 | 1000 |
| 802.11n HT20_MCS7 | 2412 | 9.98 | 9.95 | 1000 |
| | 2437 | 9.63 | 9.18 | 1000 |
| | 2462 | 9.39 | 8.69 | 1000 |
| 802.11n HT40_MCS7 | 2422 | 7.49 | 5.61 | 1000 |
| | 2437 | 7.53 | 5.66 | 1000 |
| | 2452 | 7.31 | 5.38 | 1000 |

Please refer to the following test plots:

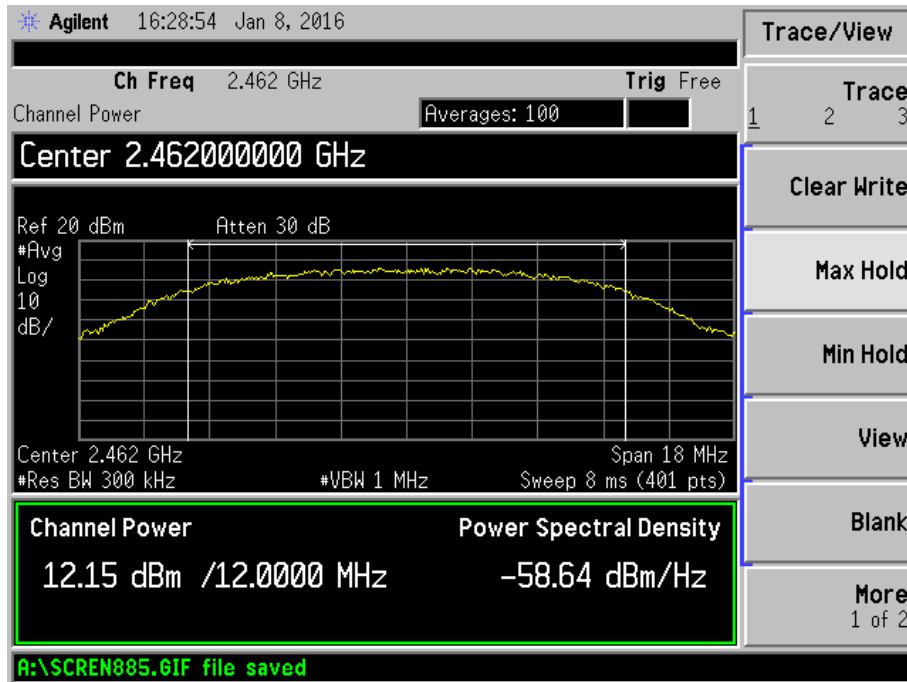
802.11b-11Mbps-Low Channel



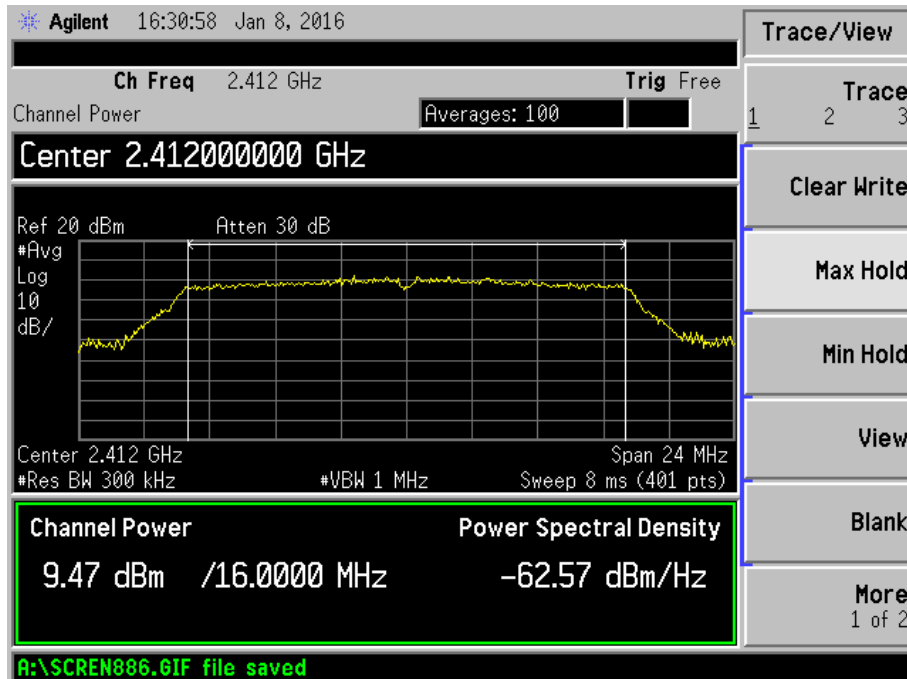
802.11b -11Mbps-Middle Channel



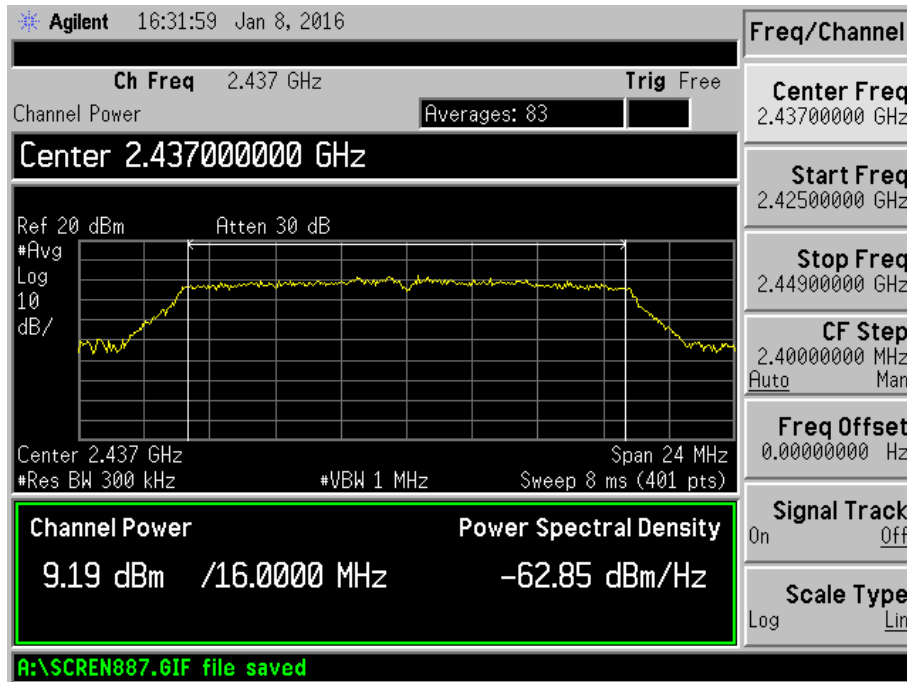
802.11b -11Mbps-High Channel



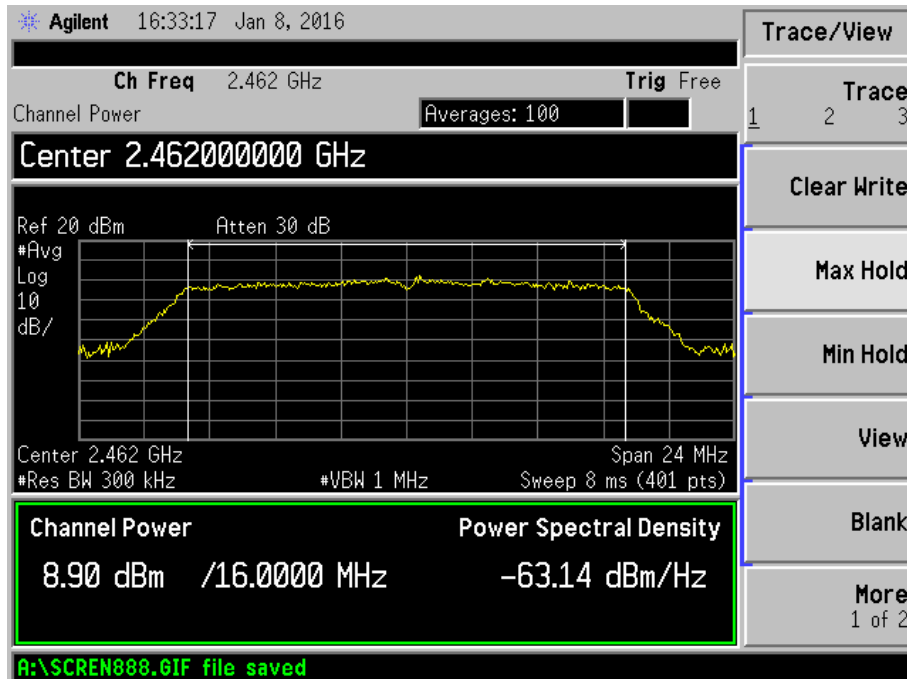
802.11g-54Mbps-Low Channel



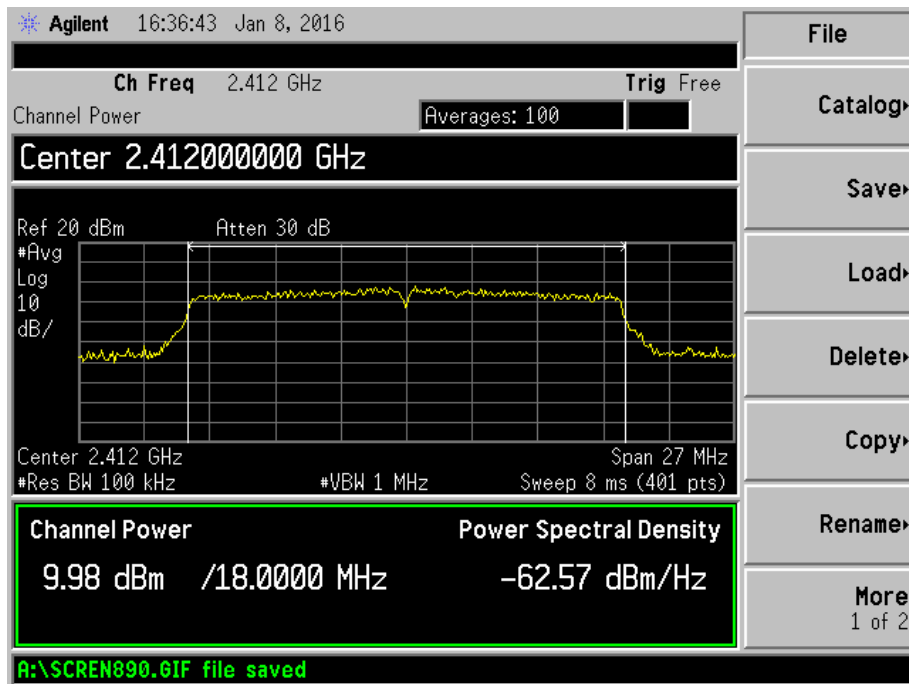
802.11g-54Mbps-Middle Channel



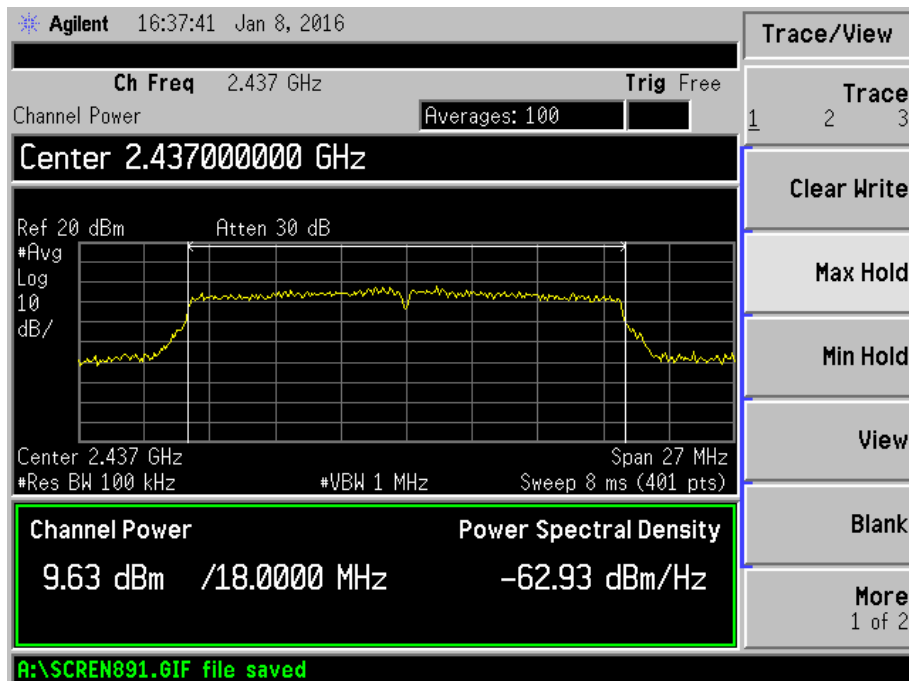
802.11g-54Mbps-High Channel



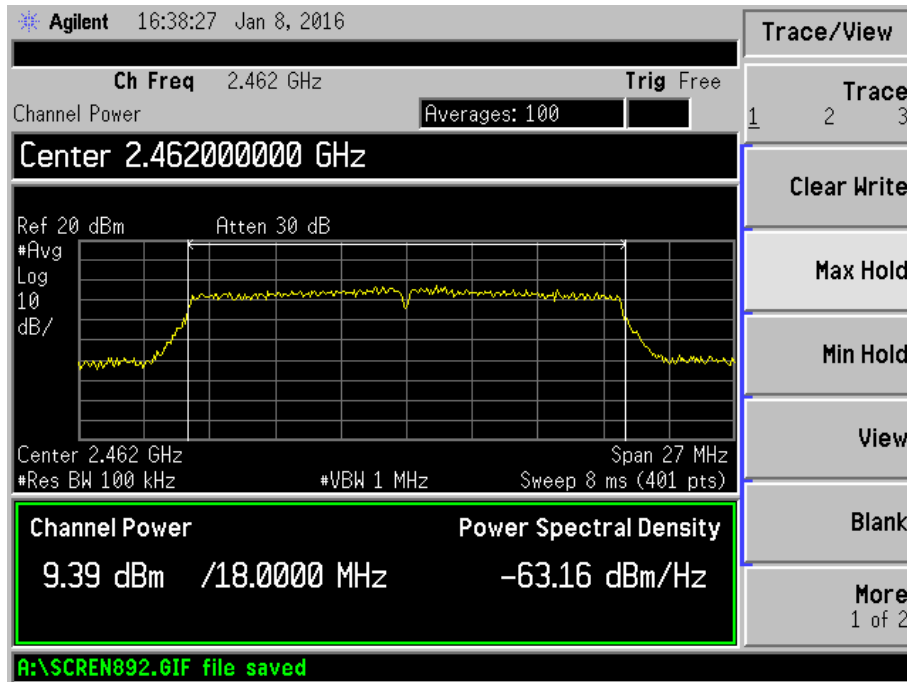
802.11n-HT20-MCS7-Low Channel



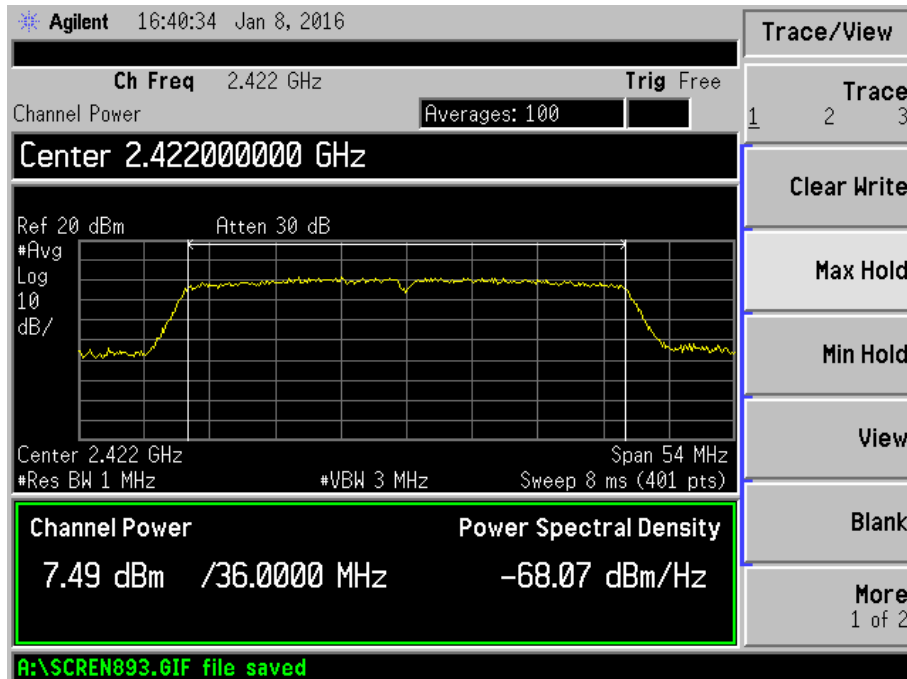
802.11n-HT20-MCS7-Middle Channel



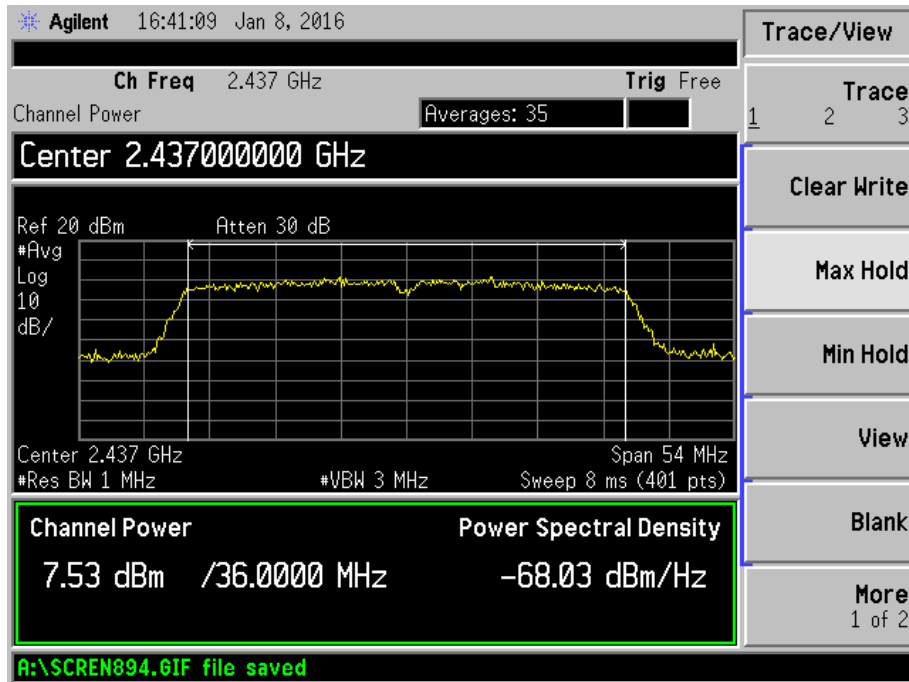
802.11n-HT20-MCS7-High Channel



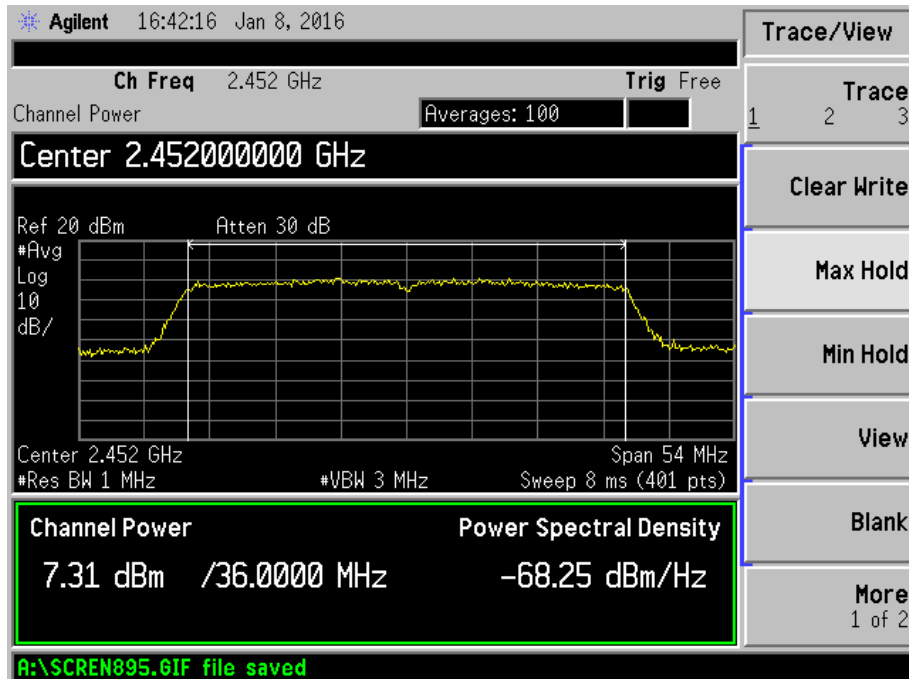
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 5.10 dB.

8.2 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

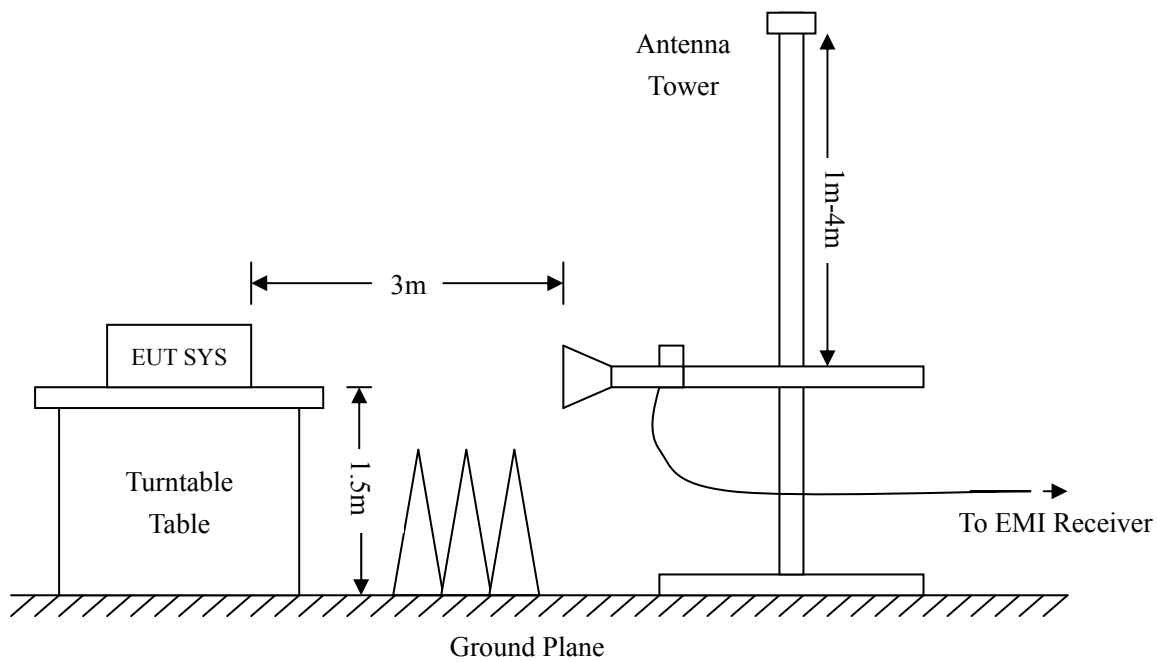
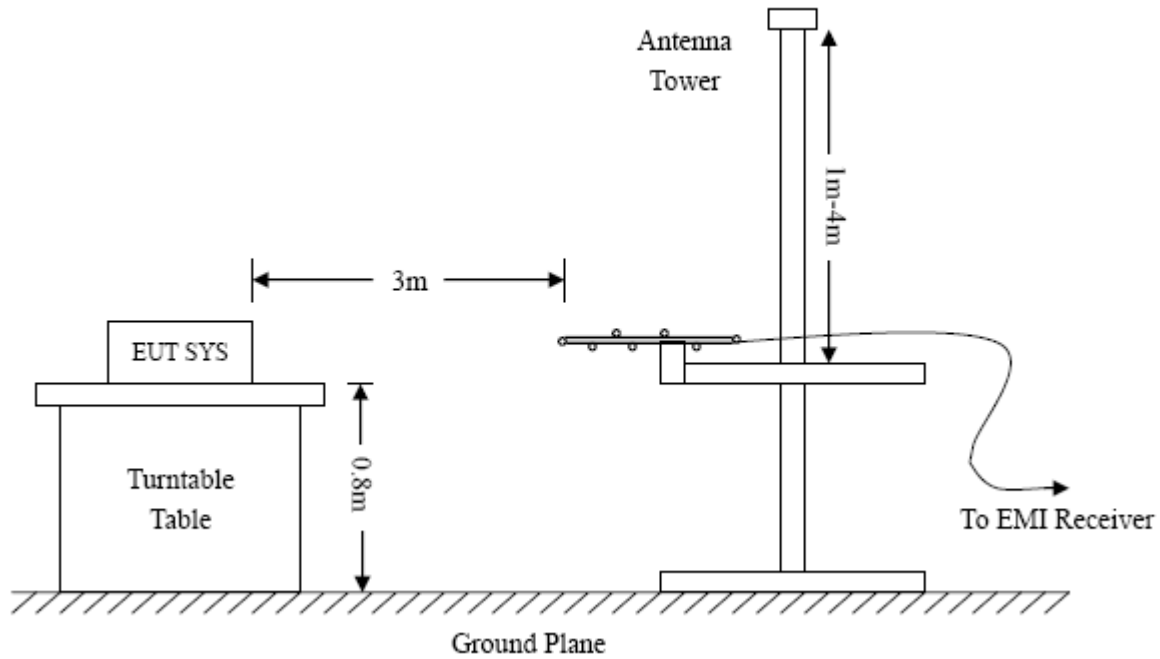
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

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

The spacing between the peripherals was 10 cm.



Frequency :9kHz-30MHz
 RBW=10KHz,
 VBW =30KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak

Frequency :30MHz-1GHz
 RBW=120KHz,
 VBW=300KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, QP

Frequency :Above 1GHz
 RBW=1MHz,
 VBW=3MHz(Peak), 10Hz(AV)
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, AV

8.4 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.5 Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 52% |
| ATM Pressure: | 1012 mbar |

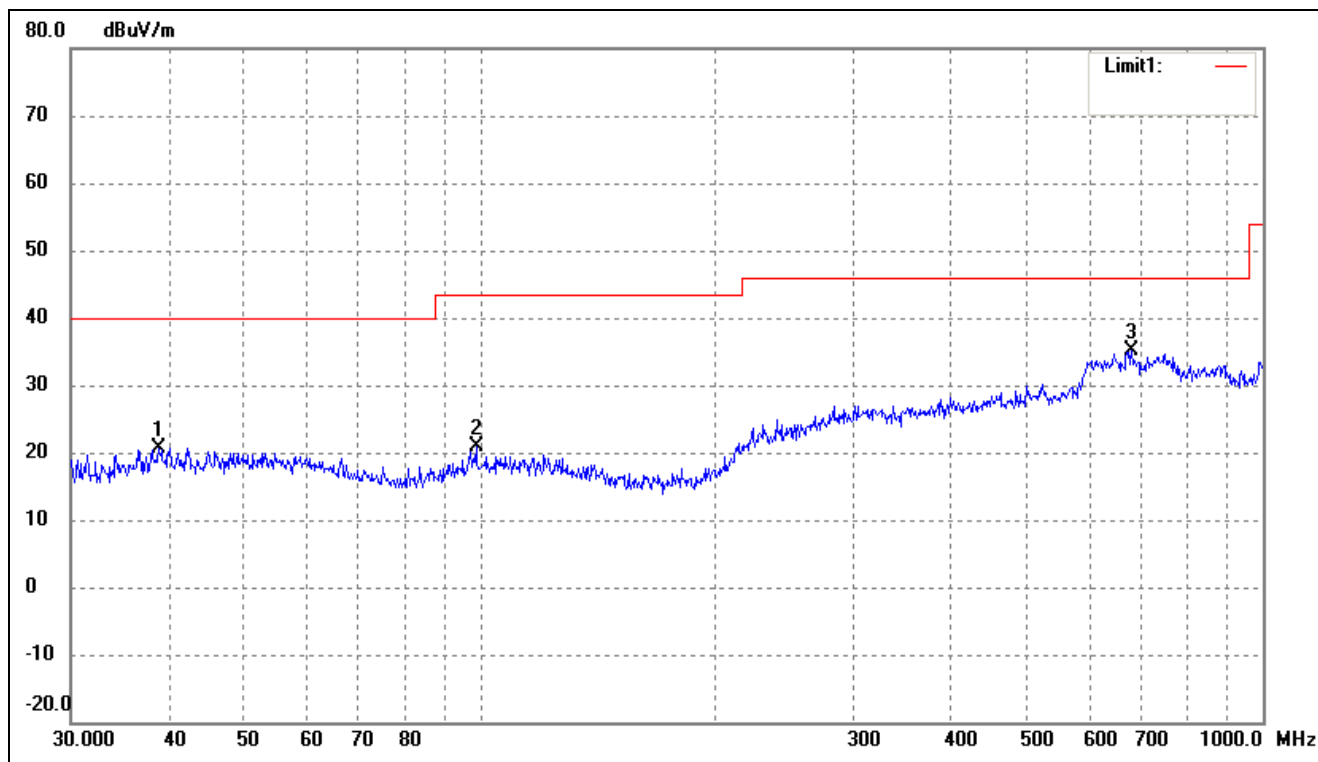
8.6 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

*Note: this EUT was tested in 3 orthogonal positions, the **antenna Horizontal** is worst case position and the data was reported.*

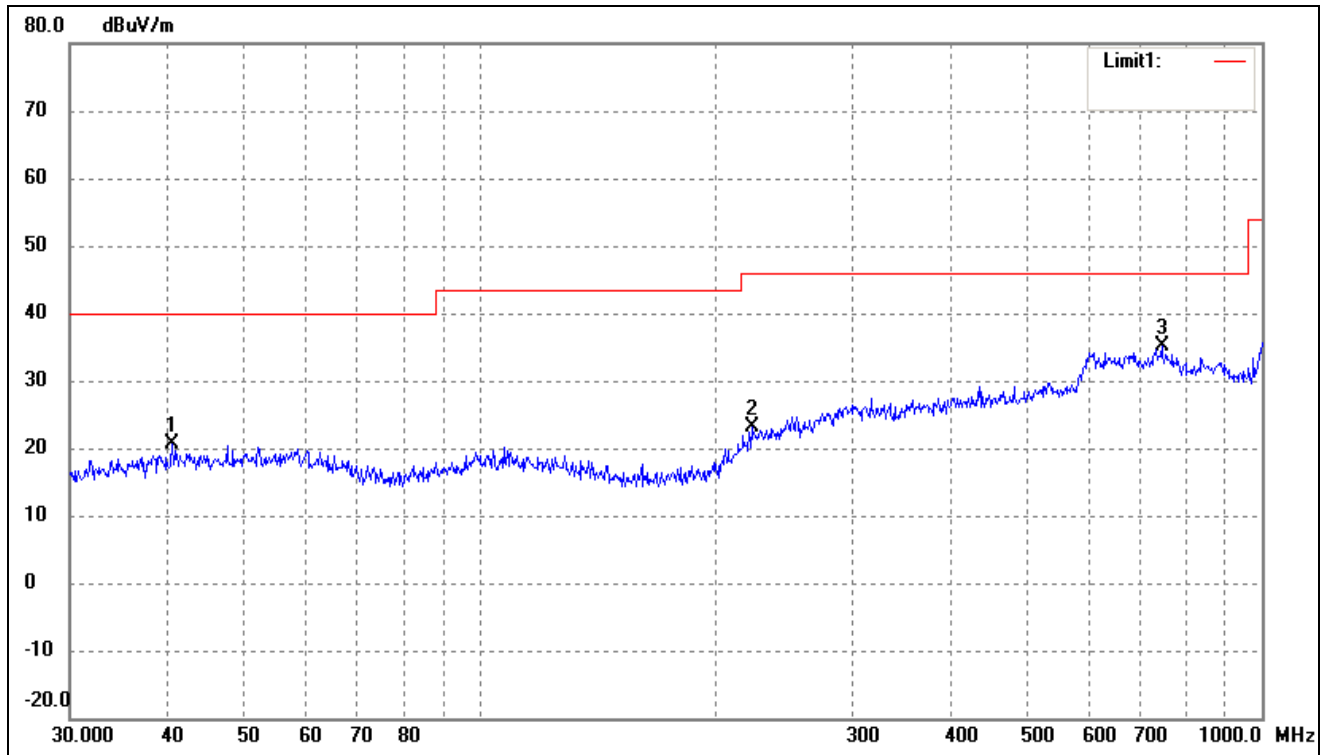
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Mobile Phone
 Tested Model: G26A
 Operating Condition: 802.11b Transmitting Low Channel-2412MHz
 Comment: Battery: DC3.7V
 Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|-----------------|----------------|--------|
| 1 | 38.8879 | 15.56 | 5.06 | 20.62 | 40.00 | -19.38 | 262 | 100 | peak |
| 2 | 98.8326 | 15.95 | 4.95 | 20.90 | 43.50 | -22.60 | 50 | 100 | peak |
| 3 | 679.9600 | 15.76 | 19.26 | 35.02 | 46.00 | -10.98 | 165 | 100 | peak |

Test Specification: Vertical

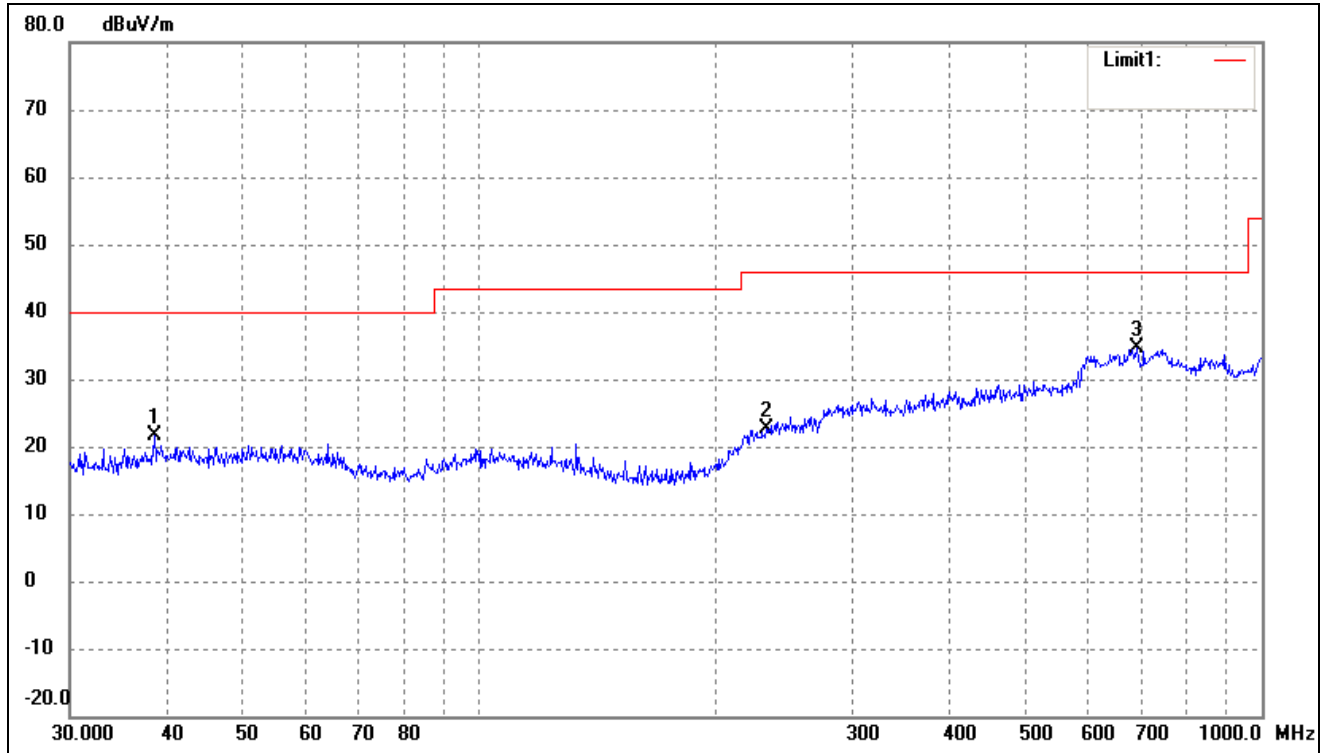


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 40.5591 | 15.34 | 5.25 | 20.59 | 40.00 | -19.41 | 87 | 100 | peak |
| 2 | 222.9502 | 14.79 | 8.28 | 23.07 | 46.00 | -22.93 | 201 | 100 | peak |
| 3 | 744.8661 | 15.76 | 19.33 | 35.09 | 46.00 | -10.91 | 65 | 100 | peak |

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

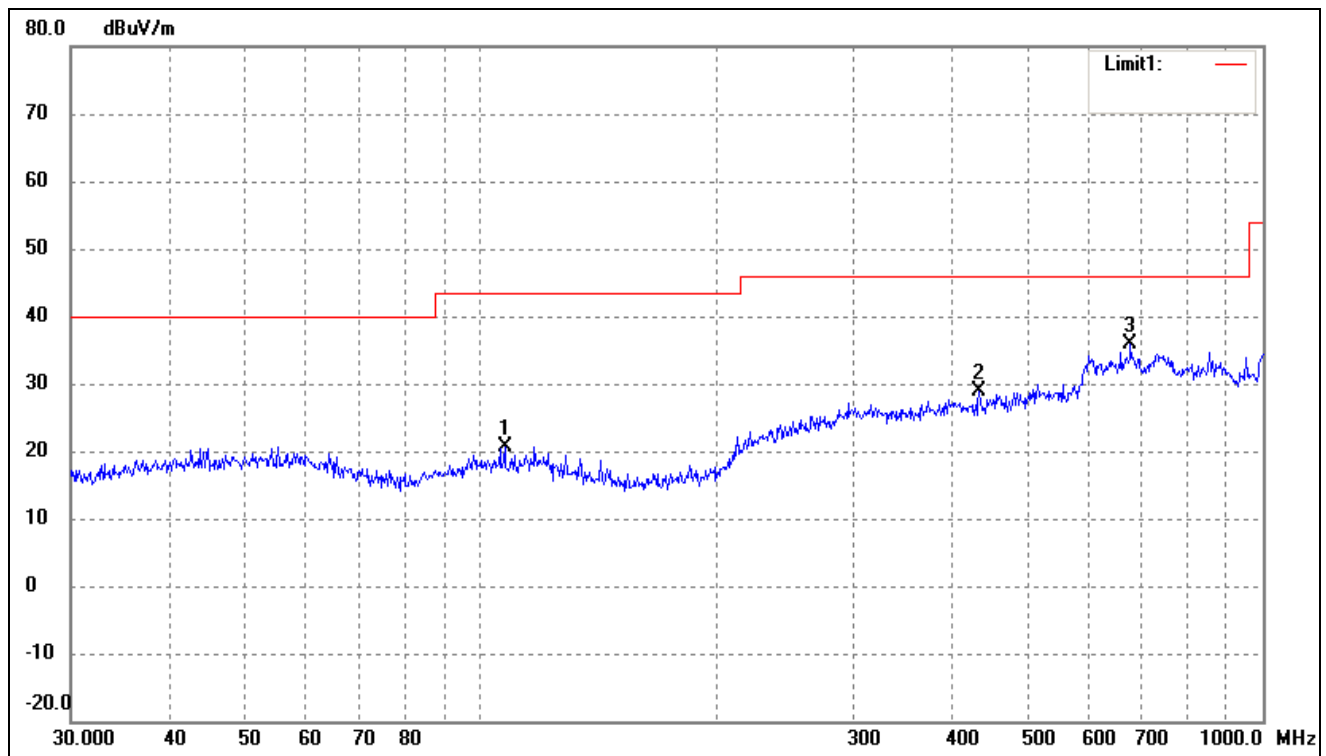
Comment: Battery: DC3.7V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 38.4809 | 16.56 | 4.99 | 21.55 | 40.00 | -18.45 | 188 | 100 | peak |
| 2 | 233.3487 | 13.83 | 8.92 | 22.75 | 46.00 | -23.25 | 52 | 100 | peak |
| 3 | 691.9867 | 16.15 | 18.37 | 34.52 | 46.00 | -11.48 | 165 | 100 | peak |

Test Specification: Vertical

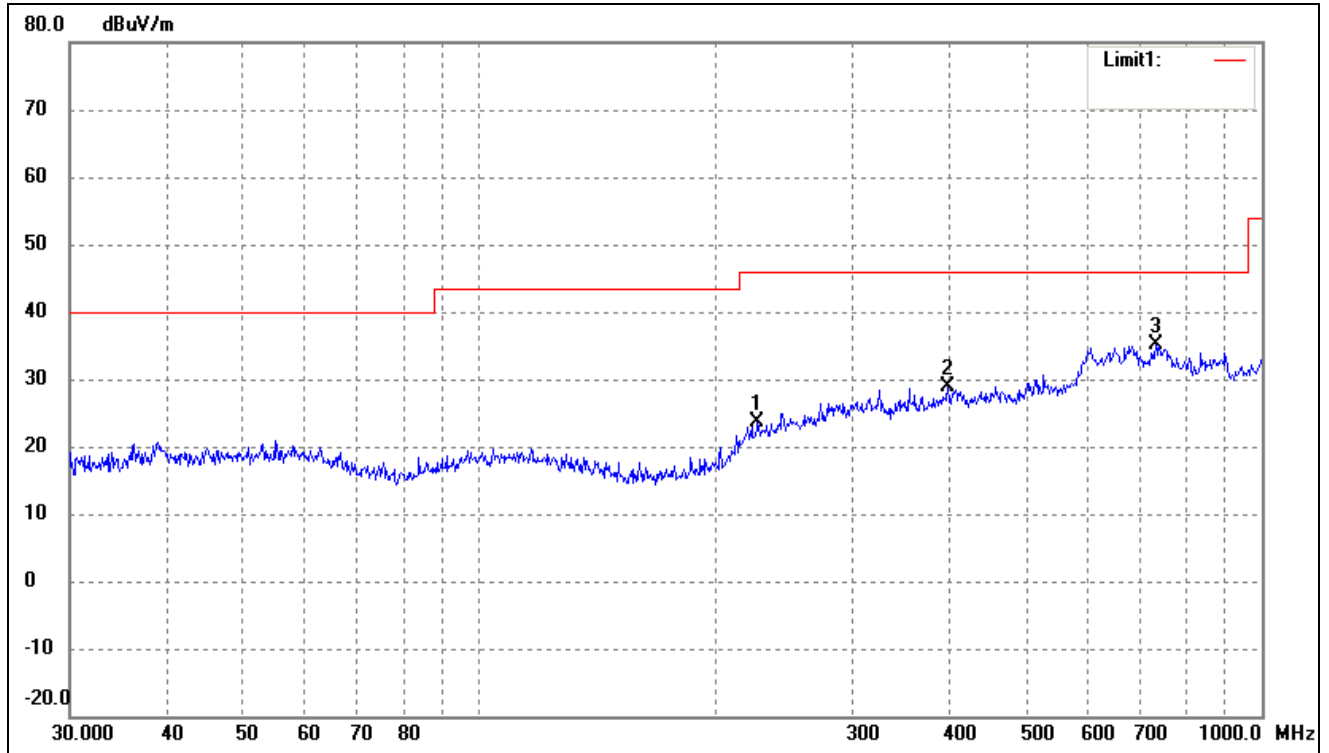


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 107.5101 | 15.66 | 5.09 | 20.75 | 43.50 | -22.75 | 78 | 100 | peak |
| 2 | 434.0651 | 16.12 | 12.83 | 28.95 | 46.00 | -17.05 | 201 | 100 | peak |
| 3 | 677.5798 | 16.71 | 19.13 | 35.84 | 46.00 | -10.16 | 26 | 100 | peak |

Operating Condition: 802.11b Transmitting High Channel-2462MHz

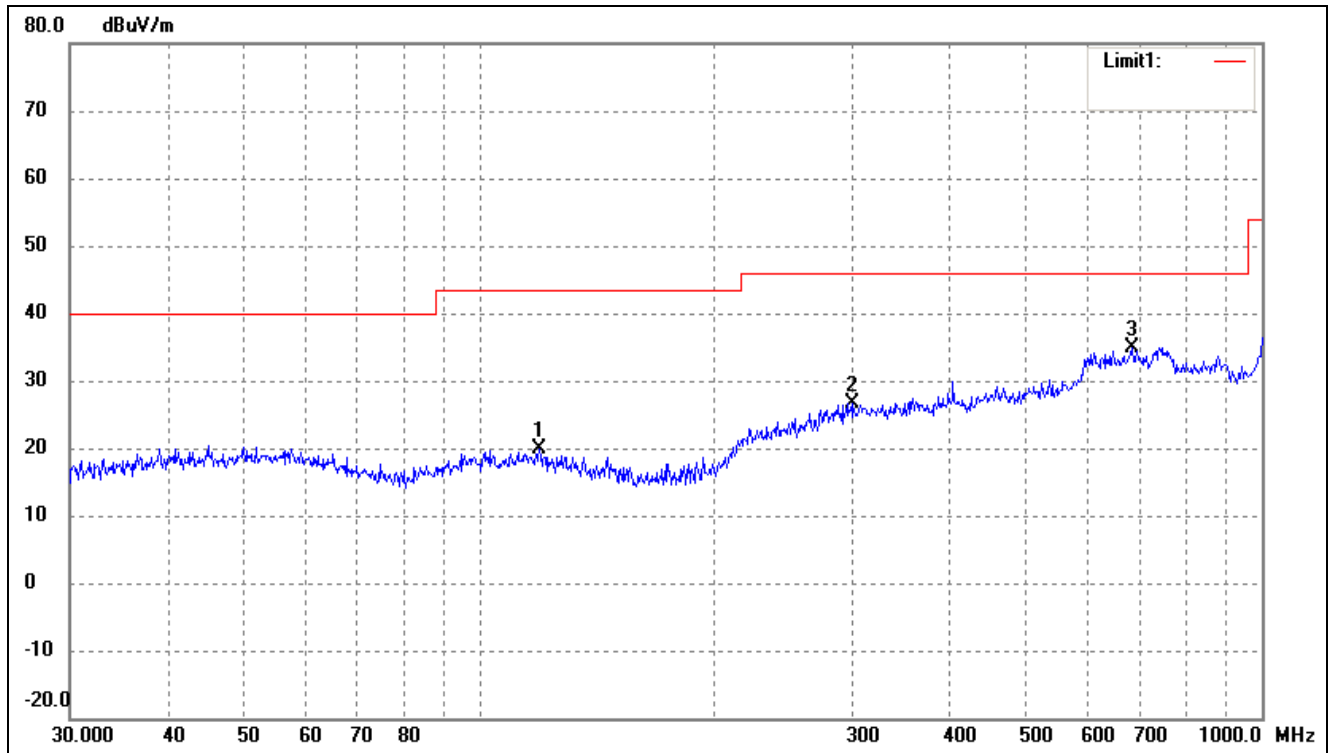
Comment: Battery: DC3.7V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 226.8936 | 15.06 | 8.53 | 23.59 | 46.00 | -22.41 | 265 | 100 | peak |
| 2 | 396.2415 | 15.87 | 12.95 | 28.82 | 46.00 | -17.18 | 21 | 100 | peak |
| 3 | 731.9203 | 16.11 | 19.08 | 35.19 | 46.00 | -10.81 | 44 | 100 | peak |

Test Specification: Vertical

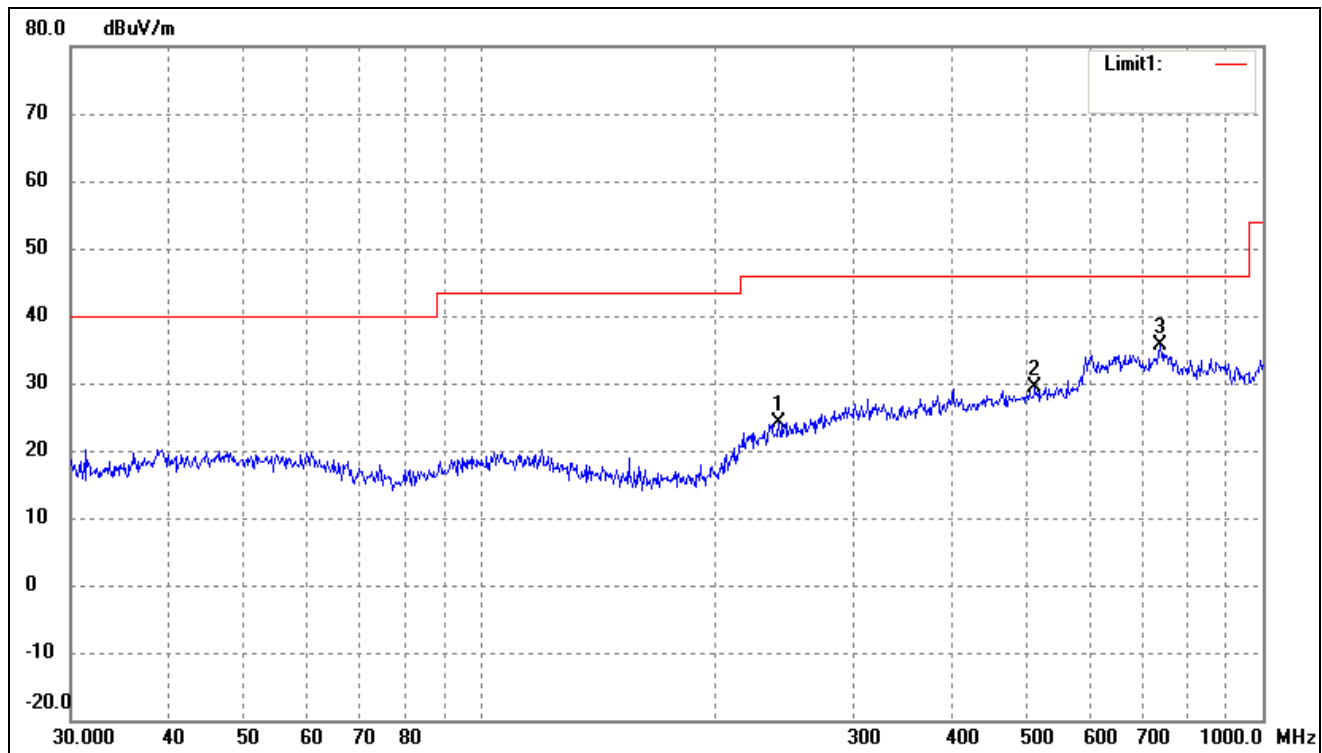


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|-----------------|----------------|--------|
| 1 | 119.4361 | 14.91 | 5.03 | 19.94 | 43.50 | -23.56 | 188 | 100 | peak |
| 2 | 299.3158 | 14.59 | 12.15 | 26.74 | 46.00 | -19.26 | 52 | 100 | peak |
| 3 | 682.3485 | 15.89 | 19.08 | 34.97 | 46.00 | -11.03 | 165 | 100 | peak |

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

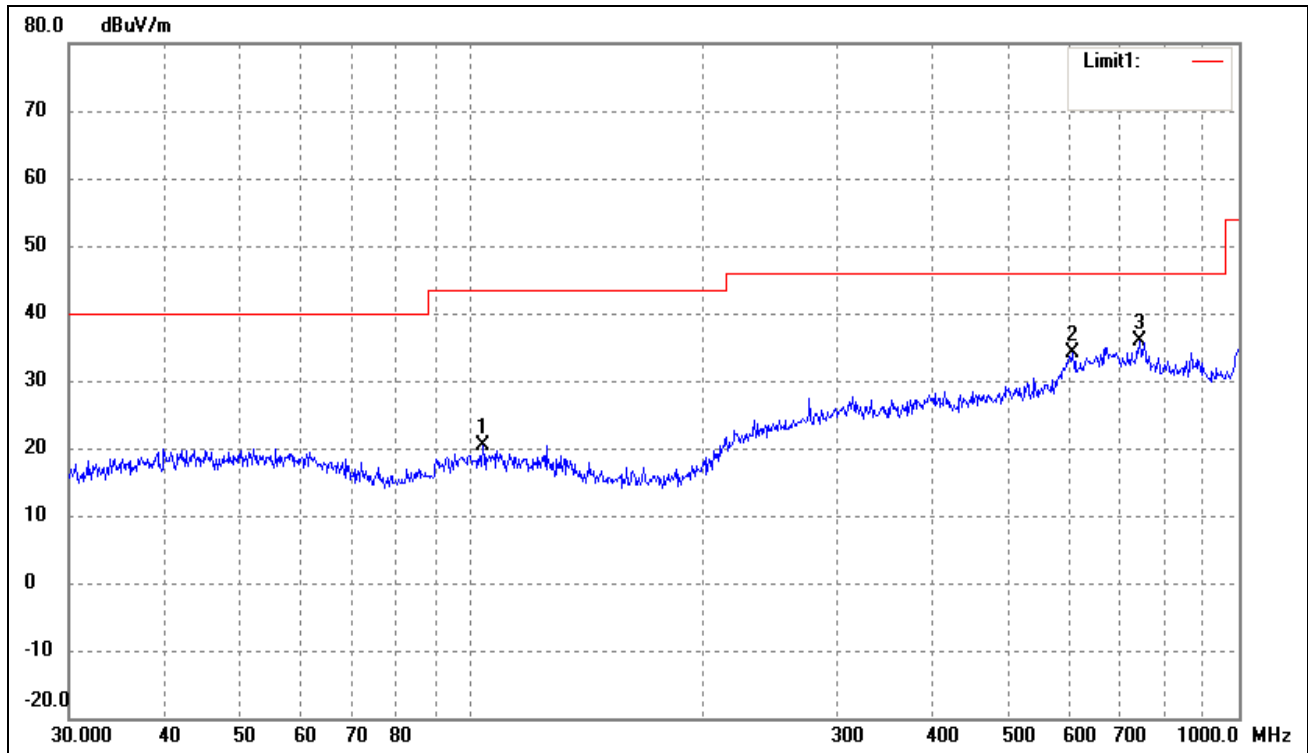
EUT: *Mobile phone*
 Tested Model: *G26A*
 Operating Condition: *802.11g Transmitting Low Channel-2412MHz*
 Comment: *Battery: DC3.7V*

 Test Specification: *Horizontal*



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|-----------------|----------------|--------|
| 1 | 240.8304 | 14.89 | 9.36 | 24.25 | 46.00 | -21.75 | 325 | 100 | peak |
| 2 | 511.8352 | 15.18 | 14.16 | 29.34 | 46.00 | -16.66 | 65 | 100 | peak |
| 3 | 739.6605 | 16.00 | 19.53 | 35.53 | 46.00 | -10.47 | 78 | 100 | peak |

Test Specification: Vertical

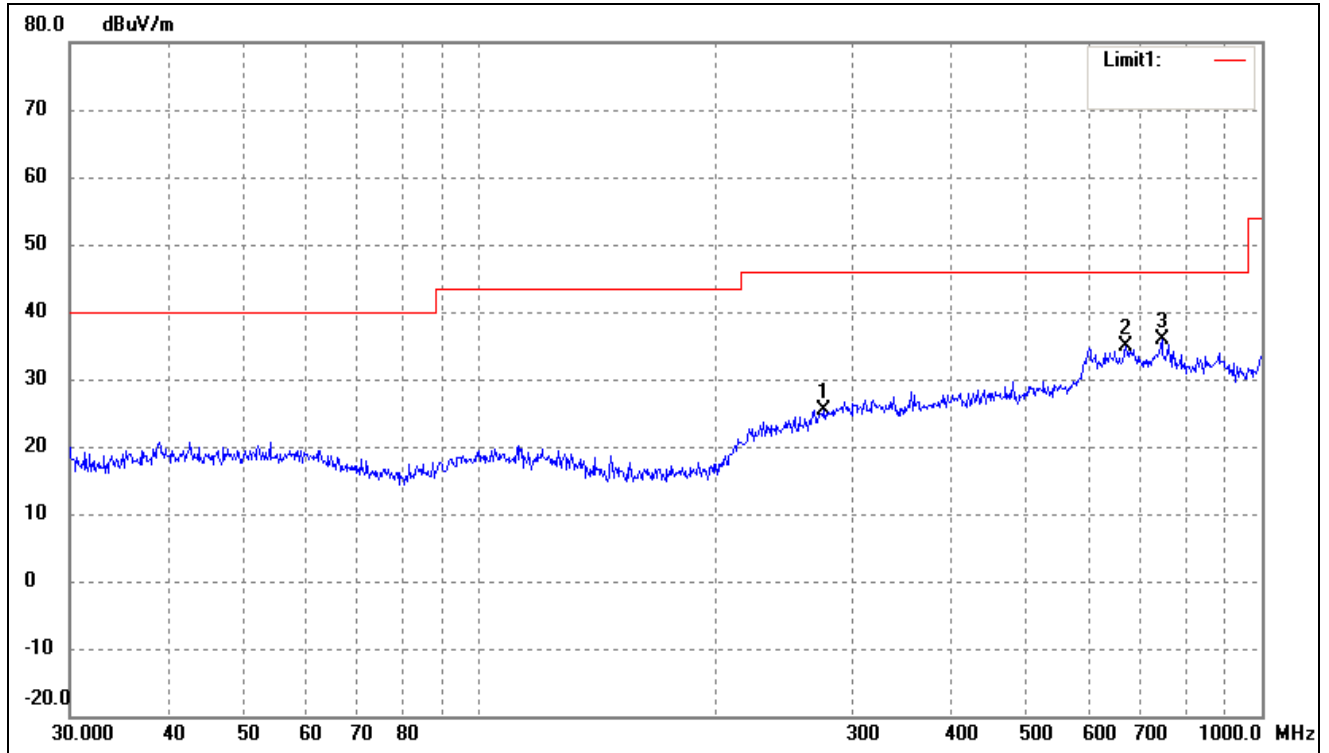


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 103.8055 | 15.28 | 5.11 | 20.39 | 43.50 | -23.11 | 188 | 100 | peak |
| 2 | 607.7867 | 15.35 | 18.77 | 34.12 | 46.00 | -11.88 | 54 | 100 | peak |
| 3 | 742.2587 | 16.48 | 19.45 | 35.93 | 46.00 | -10.07 | 165 | 100 | peak |

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

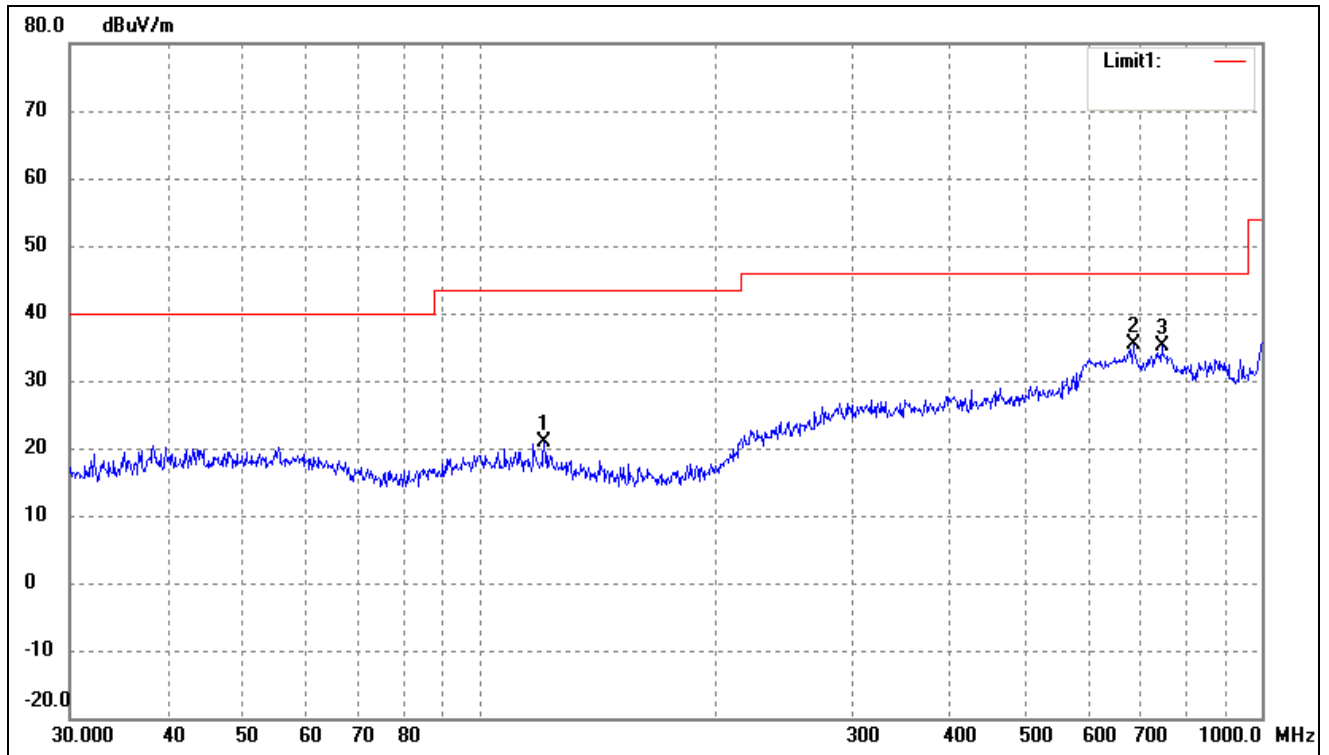
Comment: Battery: DC3.7V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 276.1236 | 14.35 | 11.14 | 25.49 | 46.00 | -20.51 | 270 | 100 | peak |
| 2 | 670.4893 | 16.03 | 18.73 | 34.76 | 46.00 | -11.24 | 160 | 100 | peak |
| 3 | 744.8661 | 16.45 | 19.33 | 35.78 | 46.00 | -10.22 | 228 | 200 | peak |

Test Specification: Vertical

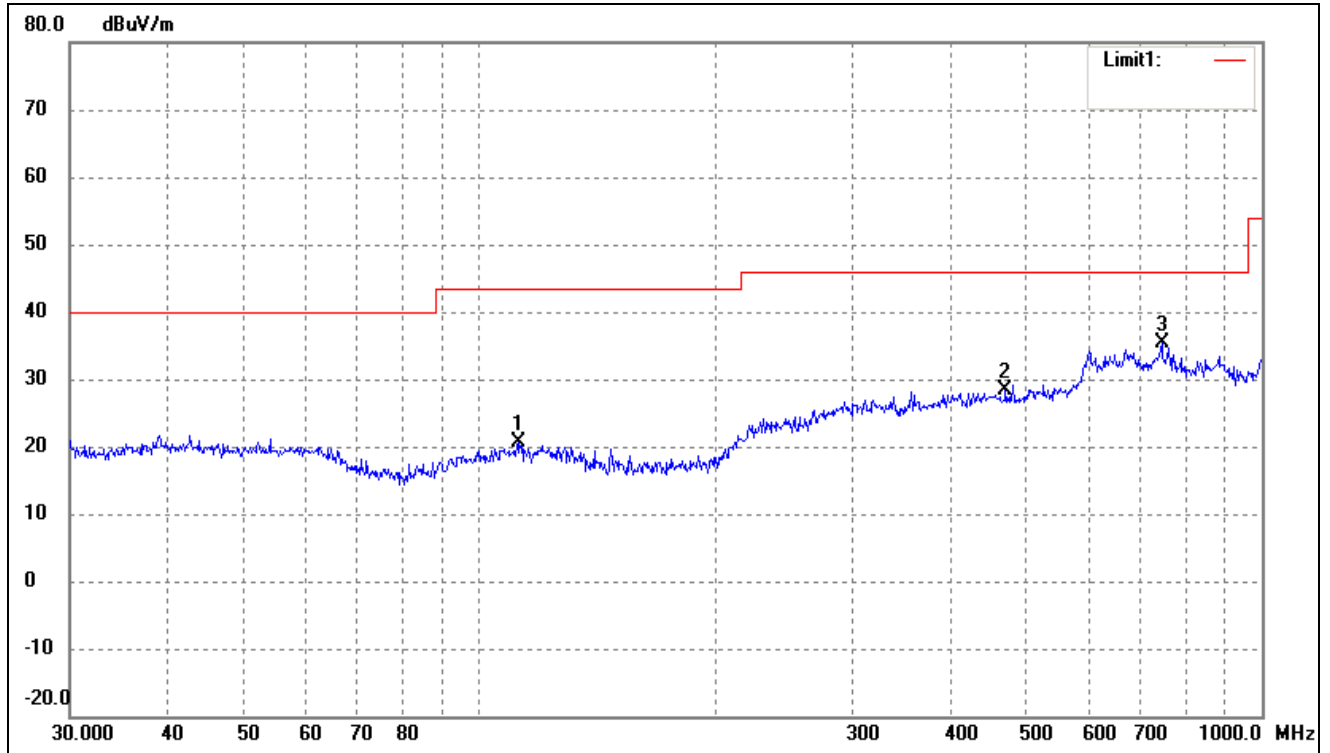


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|-----------------|----------------|--------|
| 1 | 121.1231 | 16.05 | 4.92 | 20.97 | 43.50 | -22.53 | 79 | 100 | peak |
| 2 | 684.7454 | 16.42 | 18.91 | 35.33 | 46.00 | -10.67 | 305 | 100 | peak |
| 3 | 744.8661 | 15.71 | 19.33 | 35.04 | 46.00 | -10.96 | 65 | 100 | peak |

Operating Condition: 802.11g Transmitting High Channel-2462MHz

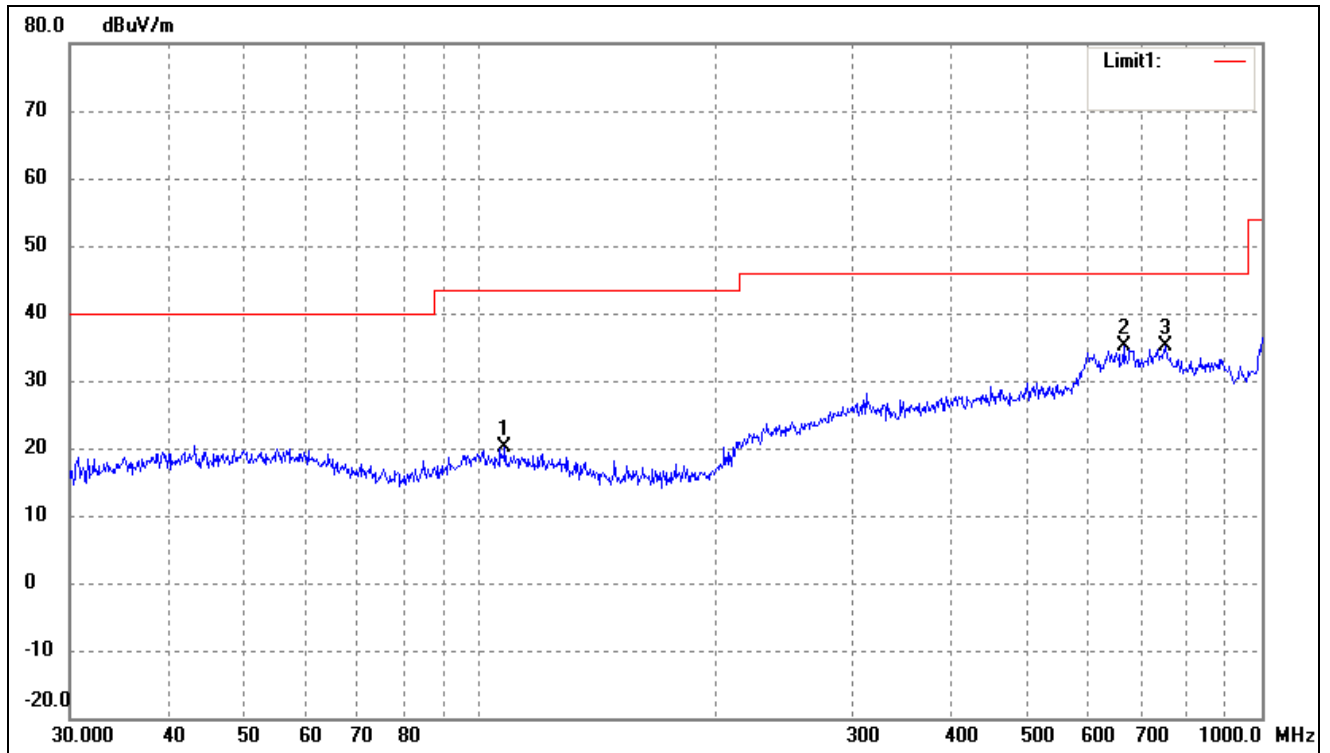
Comment: Battery: DC3.7V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 112.5243 | 15.63 | 5.05 | 20.68 | 43.50 | -22.82 | 65 | 100 | peak |
| 2 | 470.5231 | 15.15 | 13.32 | 28.47 | 46.00 | -17.53 | 201 | 100 | peak |
| 3 | 744.8660 | 15.95 | 19.33 | 35.28 | 46.00 | -10.72 | 165 | 100 | peak |

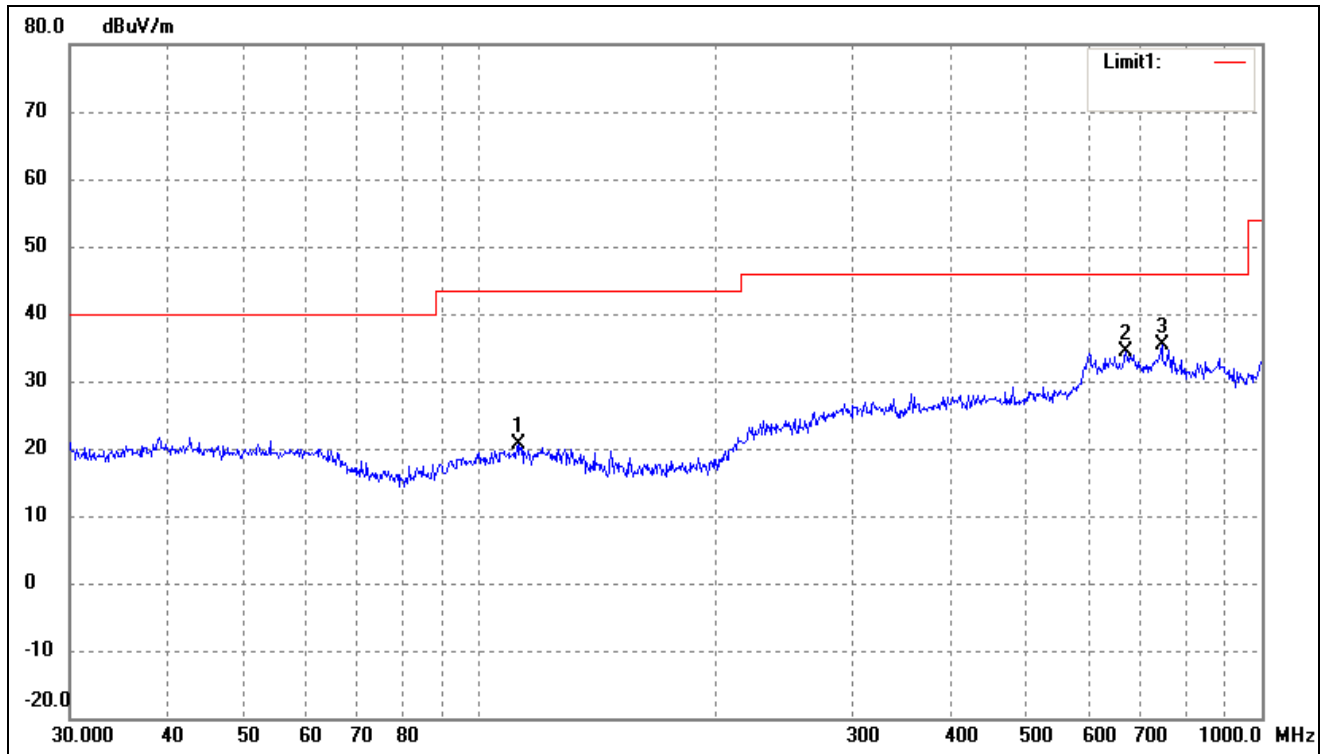
Test Specification: Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 107.8877 | 15.04 | 5.09 | 20.13 | 43.50 | -23.37 | 188 | 100 | peak |
| 2 | 665.8035 | 16.61 | 18.46 | 35.07 | 46.00 | -10.93 | 54 | 100 | peak |
| 3 | 752.7432 | 16.03 | 18.98 | 35.01 | 46.00 | -10.99 | 136 | 100 | peak |

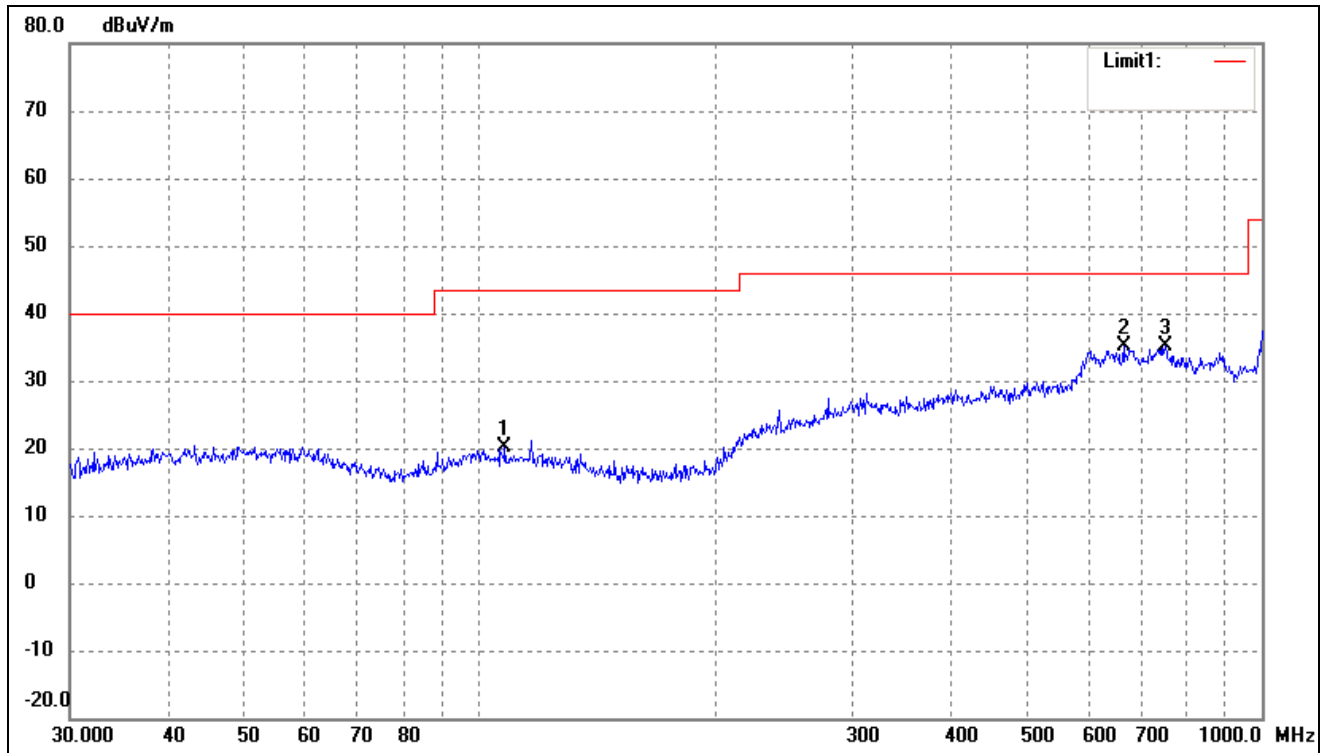
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Mobile phone
 Tested Model: G26A
 Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz
 Comment: Battery: DC3.7V
 Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 112.5243 | 15.63 | 5.05 | 20.68 | 43.50 | -22.82 | 185 | 100 | peak |
| 2 | 670.4892 | 15.53 | 18.73 | 34.26 | 46.00 | -11.74 | 21 | 200 | peak |
| 3 | 744.8660 | 15.95 | 19.33 | 35.28 | 46.00 | -10.72 | 65 | 200 | peak |

Test Specification: Vertical

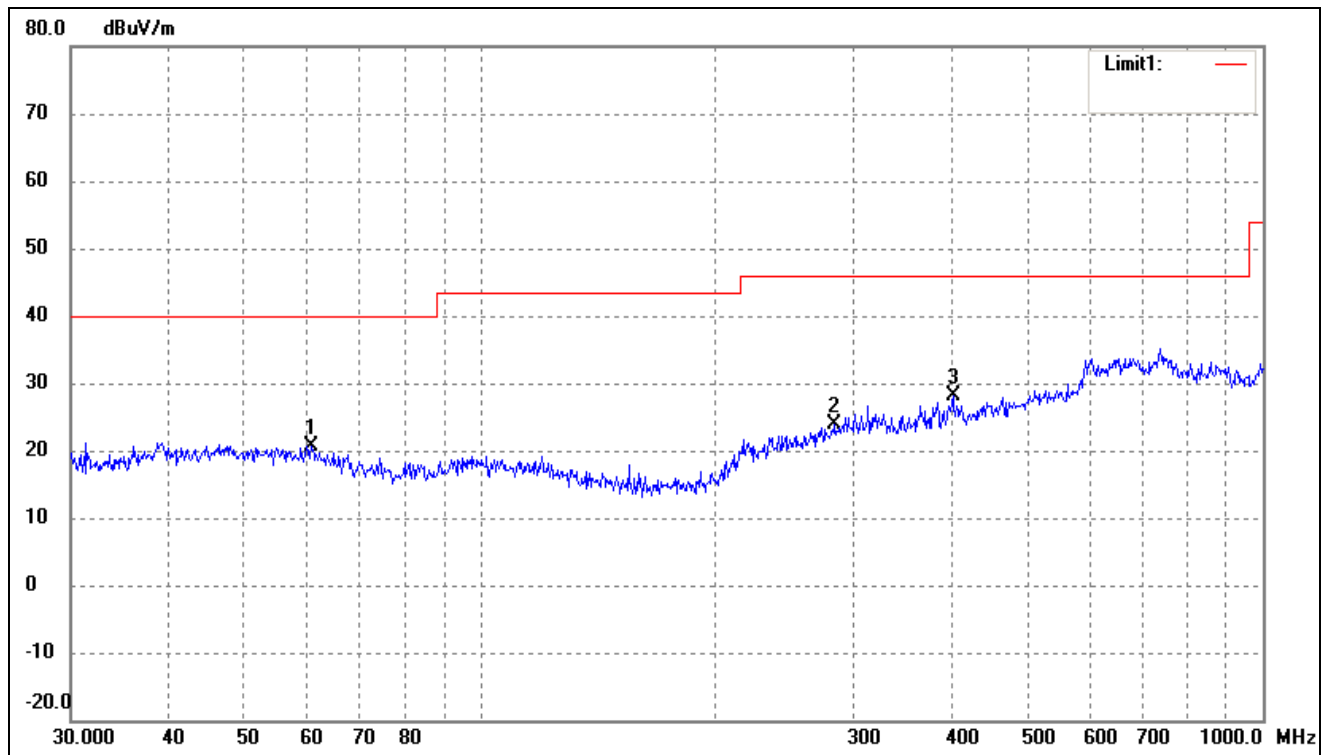


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 107.8877 | 15.04 | 5.09 | 20.13 | 43.50 | -23.37 | 198 | 100 | peak |
| 2 | 665.8035 | 16.61 | 18.46 | 35.07 | 46.00 | -10.93 | 201 | 100 | peak |
| 3 | 752.7432 | 16.03 | 18.98 | 35.01 | 46.00 | -10.99 | 15 | 100 | peak |

Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2437MHz

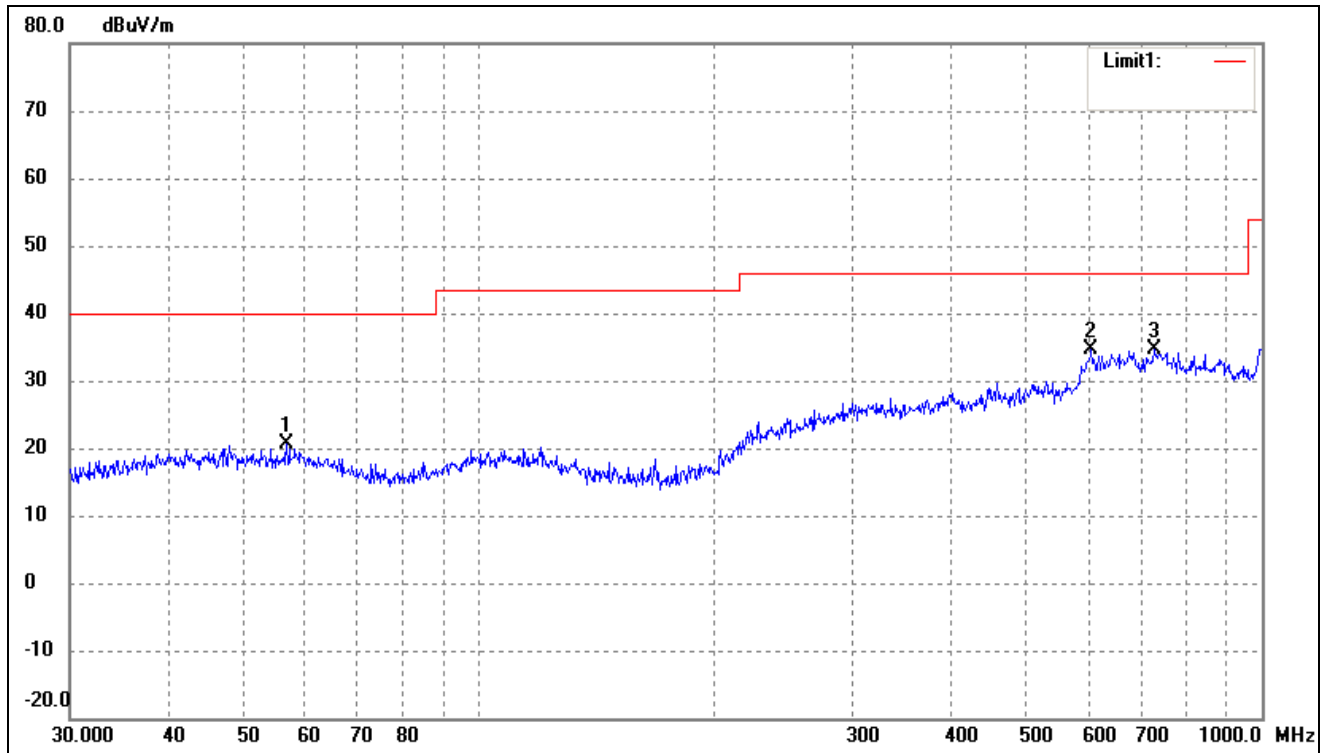
Comment: Battery: DC3.7 V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 60.9176 | 15.41 | 5.18 | 20.59 | 40.00 | -19.41 | 56 | 100 | peak |
| 2 | 283.9791 | 12.42 | 11.55 | 23.97 | 46.00 | -22.03 | 201 | 100 | peak |
| 3 | 401.8385 | 15.14 | 13.06 | 28.20 | 46.00 | -17.80 | 154 | 100 | peak |

Test Specification: Vertical

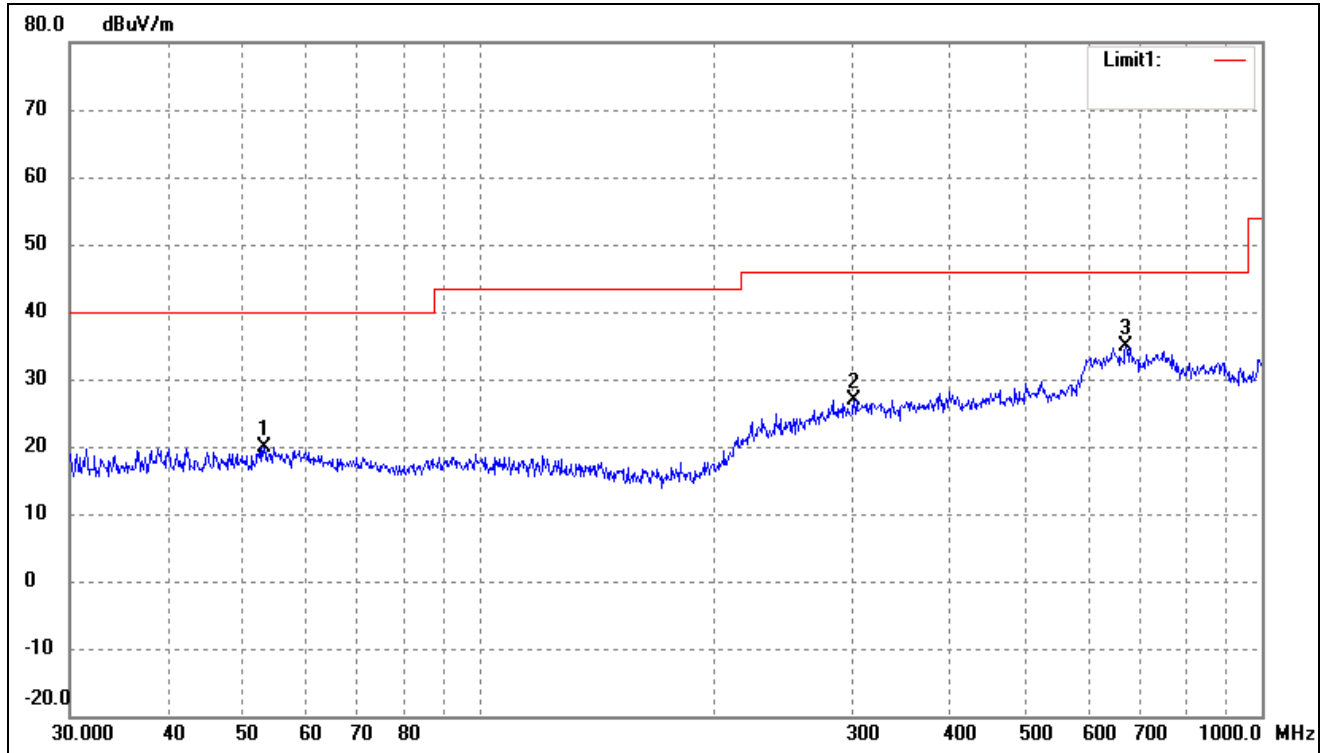


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|-----------------|----------------|--------|
| 1 | 56.7917 | 15.37 | 5.34 | 20.71 | 40.00 | -19.29 | 185 | 100 | peak |
| 2 | 605.6592 | 15.73 | 18.92 | 34.65 | 46.00 | -11.35 | 20 | 100 | peak |
| 3 | 729.3583 | 15.73 | 18.92 | 34.65 | 46.00 | -11.35 | 165 | 100 | peak |

Operating Condition: 802.11n-HT20 Transmitting High Channel-2462MHz

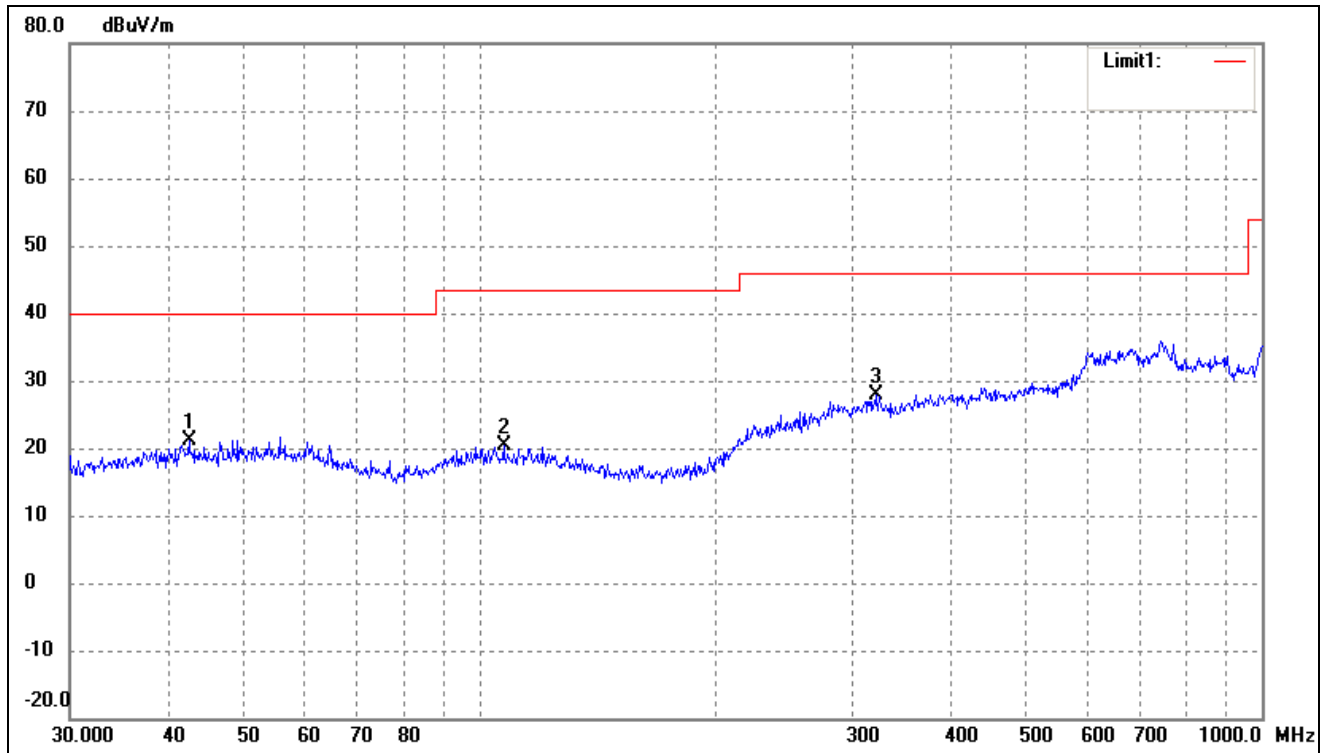
Comment: Battery: DC3.7 V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 53.1313 | 14.66 | 5.30 | 19.96 | 40.00 | -20.04 | 58 | 100 | peak |
| 2 | 301.4223 | 14.63 | 12.18 | 26.81 | 46.00 | -19.19 | 165 | 100 | peak |
| 3 | 670.4892 | 16.03 | 18.73 | 34.76 | 46.00 | -11.24 | 21 | 100 | peak |

Test Specification: Vertical

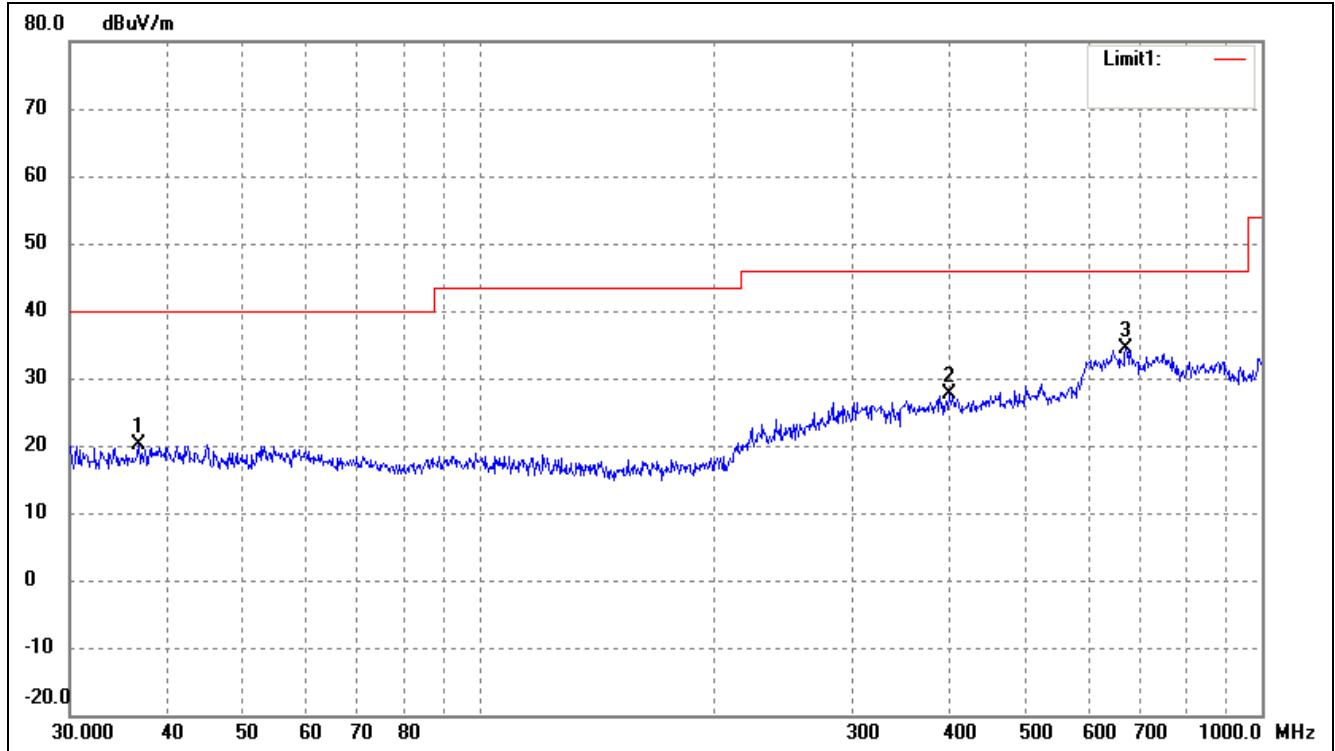


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (°) | (cm) | |
| 1 | 42.6000 | 15.87 | 5.25 | 21.12 | 40.00 | -18.88 | 165 | 100 | peak |
| 2 | 107.5101 | 15.35 | 5.09 | 20.44 | 43.50 | -23.06 | 21 | 100 | peak |
| 3 | 322.1886 | 15.72 | 12.23 | 27.95 | 46.00 | -18.05 | 78 | 100 | peak |

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

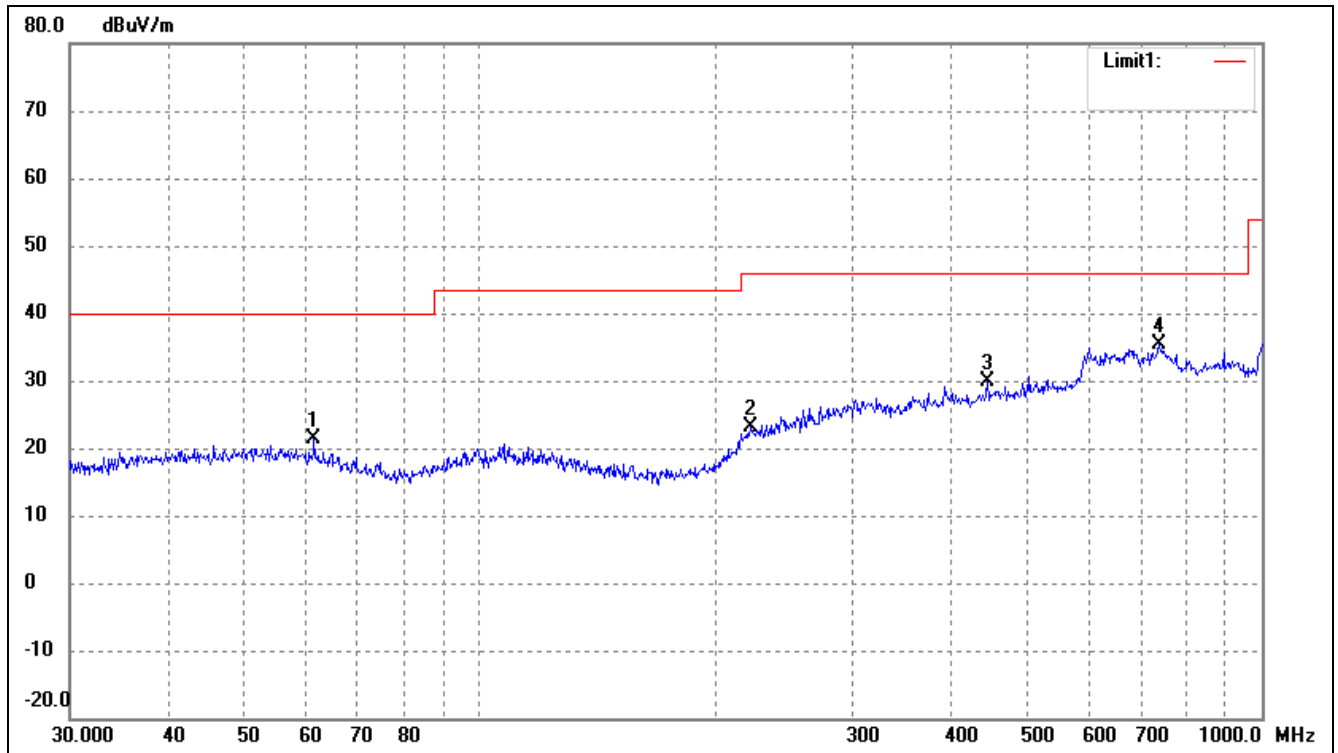
EUT: *Mobile phone*
 Tested Model: *G26A*
 Operating Condition: *802.11n-HT40 Transmitting Low Channel-2422MHz*
 Comment: *Battery: DC3.7V*

Test Specification: *Horizontal*



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 36.7661 | 15.45 | 4.70 | 20.15 | 40.00 | -19.85 | 154 | 100 | peak |
| 2 | 399.0301 | 14.57 | 13.09 | 27.66 | 46.00 | -18.34 | 201 | 100 | peak |
| 3 | 670.4892 | 15.53 | 18.73 | 34.26 | 46.00 | -11.74 | 65 | 100 | peak |

Test Specification: Vertical

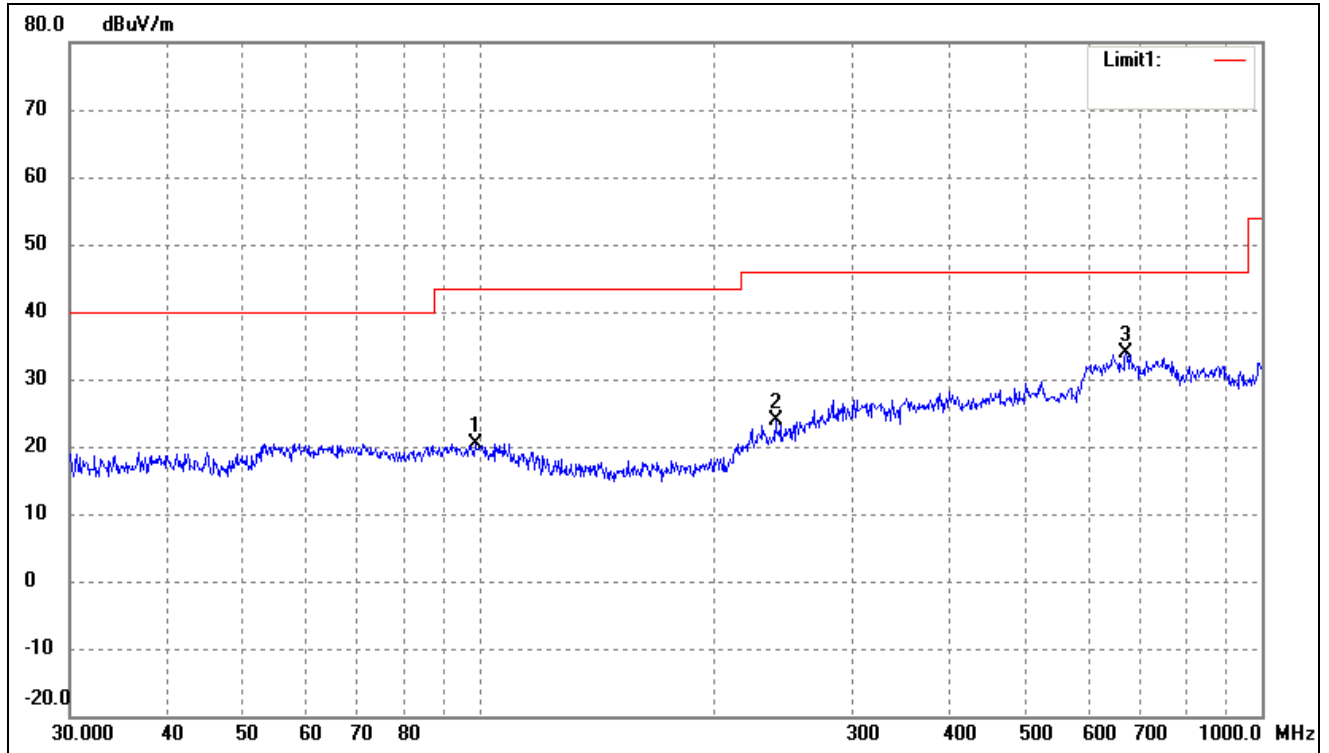


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|------------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | Factor(dB) | (dBuV/m) | (dBuV/m) | (dB) | (°) | (cm) | |
| 1 | 61.5618 | 16.35 | 5.04 | 21.39 | 40.00 | -18.61 | 165 | 100 | peak |
| 2 | 222.1698 | 14.93 | 8.24 | 23.17 | 46.00 | -22.83 | 21 | 100 | peak |
| 3 | 446.4141 | 16.74 | 13.19 | 29.93 | 46.00 | -16.07 | 166 | 100 | peak |
| 4 | 739.6605 | 15.87 | 19.53 | 35.40 | 46.00 | -10.60 | 144 | 100 | peak |

Operating Condition: 802.11n-HT40 Transmitting Middle Channel-2437MHz

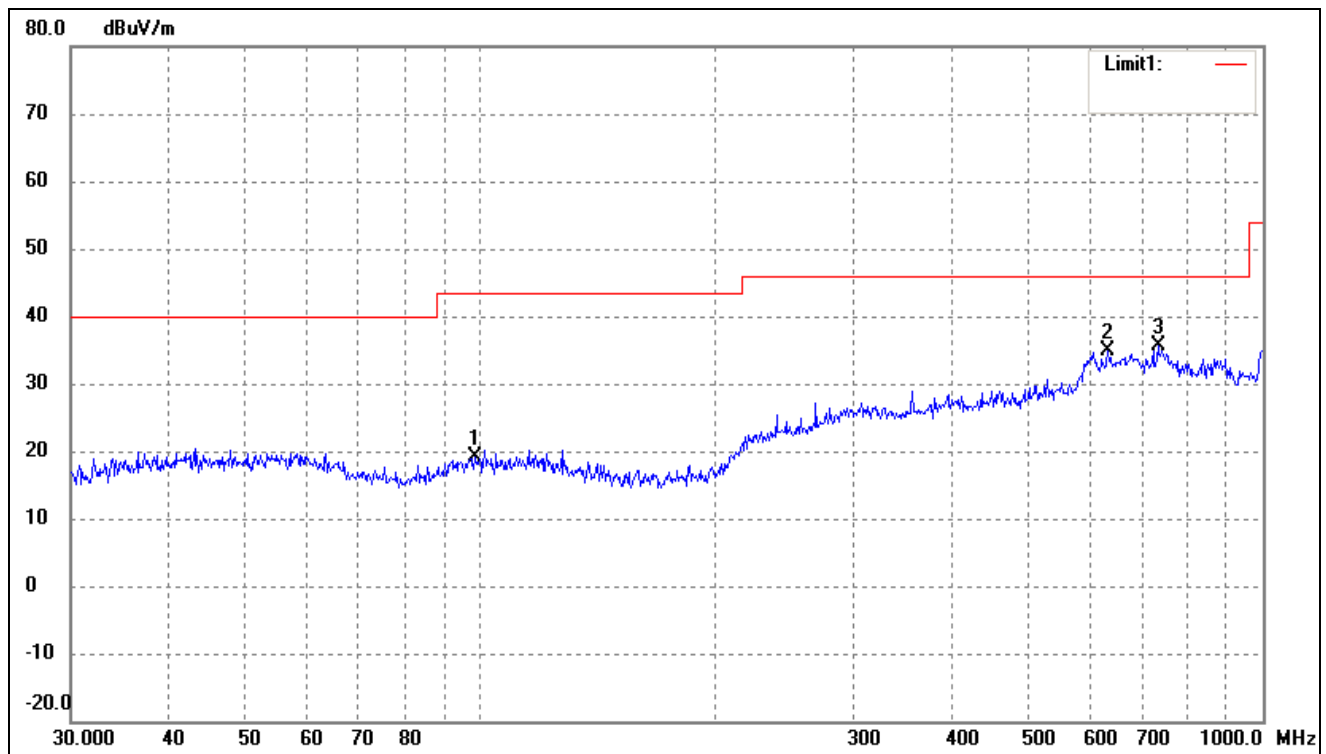
Comment: Battery: DC3.7V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 98.8325 | 15.45 | 4.95 | 20.40 | 43.50 | -23.10 | 154 | 100 | peak |
| 2 | 239.1473 | 14.51 | 9.28 | 23.79 | 46.00 | -22.21 | 88 | 100 | peak |
| 3 | 670.4892 | 15.03 | 18.73 | 33.76 | 46.00 | -12.24 | 265 | 100 | peak |

Test Specification: Vertical

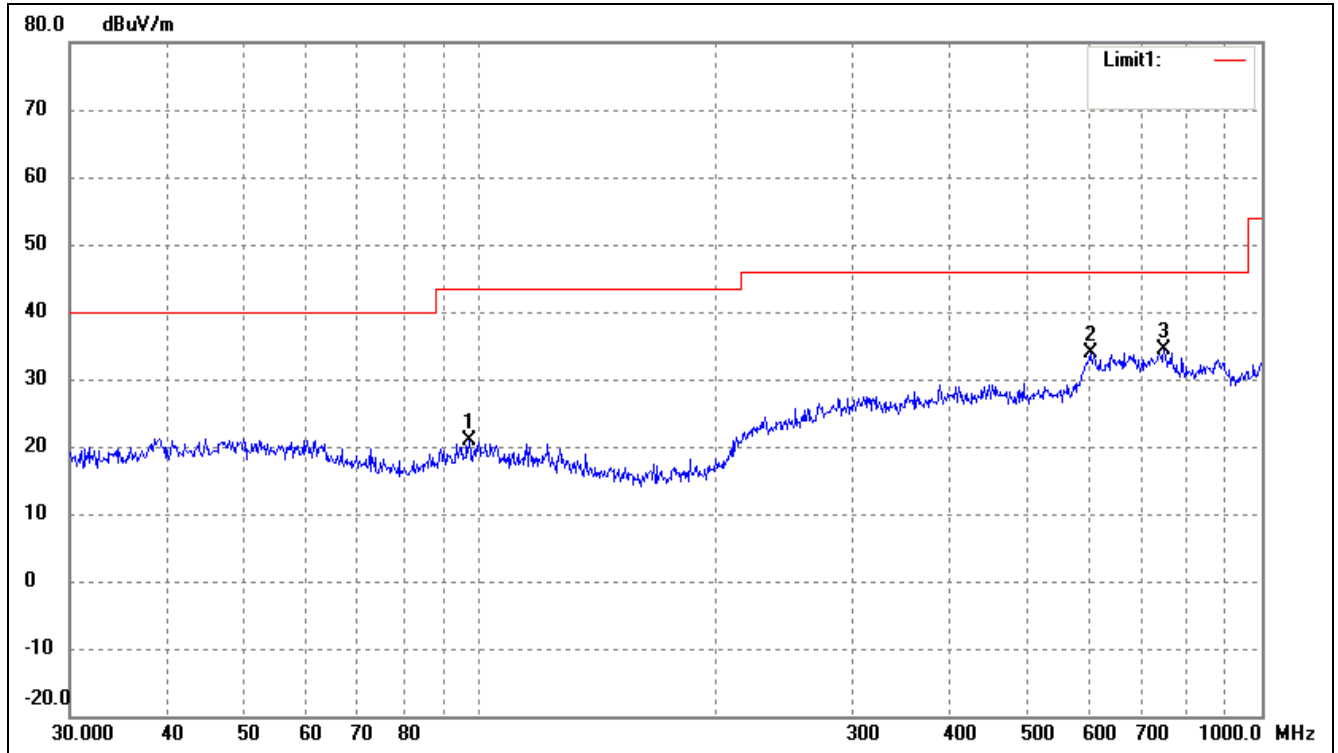


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 98.4866 | 14.24 | 4.90 | 19.14 | 43.50 | -24.36 | 54 | 100 | peak |
| 2 | 633.9073 | 16.54 | 18.41 | 34.95 | 46.00 | -11.05 | 154 | 100 | peak |
| 3 | 734.4913 | 16.42 | 19.22 | 35.64 | 46.00 | -10.36 | 65 | 100 | peak |

Operating Condition: 802.11n-HT40 Transmitting High Channel-2452MHz

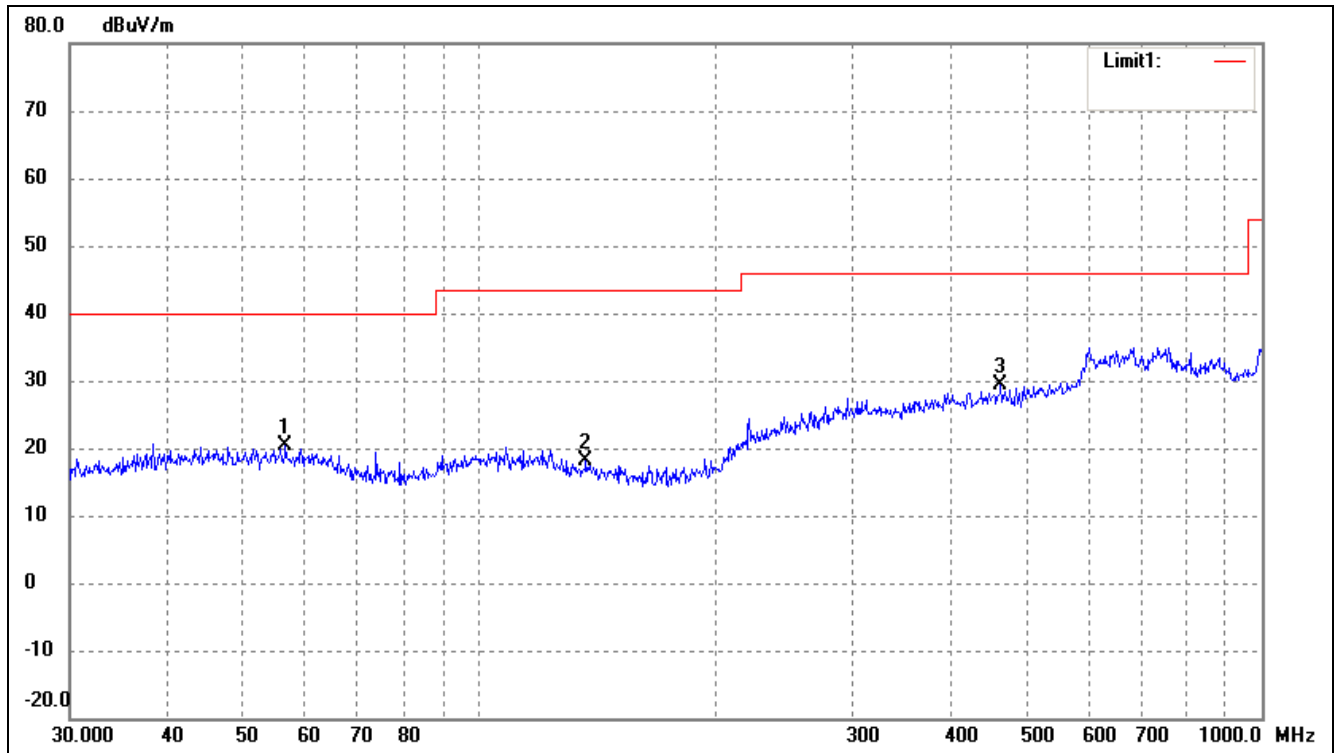
Comment: Battery: DC3.7V

Test Specification: Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|-----------------|----------------|--------|
| 1 | 97.1148 | 16.26 | 4.70 | 20.96 | 43.50 | -22.54 | 185 | 100 | peak |
| 2 | 603.5392 | 14.87 | 19.06 | 33.93 | 46.00 | -12.07 | 201 | 100 | peak |
| 3 | 750.1082 | 15.21 | 19.09 | 34.30 | 46.00 | -11.70 | 165 | 100 | peak |

Test Specification: Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|-----------------|----------------|--------|
| 1 | 56.5929 | 15.00 | 5.34 | 20.34 | 40.00 | -19.66 | 155 | 100 | peak |
| 2 | 136.9392 | 14.47 | 3.65 | 18.12 | 43.50 | -25.38 | 45 | 100 | peak |
| 3 | 463.9696 | 15.79 | 13.47 | 29.26 | 46.00 | -16.74 | 68 | 100 | peak |

Spurious Emissions Above 1GHz

Test Mode: 802.11b

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel-2412MHz | | | | | | | |
| 4824.000 | 42.28 | 12.37 | 54.65 | 74.00 | -19.35 | H | PK |
| 4824.000 | 31.61 | 12.37 | 43.98 | 54.00 | -10.02 | H | AV |
| 7236.000 | 34.05 | 15.49 | 49.54 | 74.00 | -24.46 | H | PK |
| 7236.000 | 25.26 | 15.49 | 40.75 | 54.00 | -13.25 | H | AV |
| 4824.000 | 42.81 | 12.37 | 55.18 | 74.00 | -18.82 | V | PK |
| 4824.000 | 31.55 | 12.37 | 43.92 | 54.00 | -10.08 | V | AV |
| 7236.000 | 33.96 | 15.49 | 49.45 | 74.00 | -24.55 | V | PK |
| 7236.000 | 24.31 | 15.49 | 39.80 | 54.00 | -14.20 | V | AV |
| Middle Channel-2437MHz | | | | | | | |
| 4874.000 | 42.62 | 12.46 | 55.08 | 74.00 | -18.92 | H | PK |
| 4874.000 | 31.66 | 12.46 | 44.12 | 54.00 | -9.88 | H | AV |
| 7311.000 | 37.31 | 15.56 | 52.87 | 74.00 | -21.13 | H | PK |
| 7311.000 | 24.35 | 15.56 | 39.91 | 54.00 | -14.09 | H | AV |
| 4874.000 | 43.56 | 12.46 | 56.02 | 74.00 | -17.98 | V | PK |
| 4874.000 | 31.61 | 12.46 | 44.07 | 54.00 | -9.93 | V | AV |
| 7311.000 | 36.32 | 15.56 | 51.88 | 74.00 | -22.12 | V | PK |
| 7311.000 | 25.76 | 15.56 | 41.32 | 54.00 | -12.68 | V | AV |
| High Channel-2462MHz | | | | | | | |
| 4924.000 | 46.64 | 12.55 | 59.19 | 74.00 | -14.81 | H | PK |
| 4924.000 | 33.45 | 12.55 | 46.00 | 54.00 | -8.00 | H | AV |
| 7386.000 | 37.01 | 15.64 | 52.65 | 74.00 | -21.35 | H | PK |
| 7386.000 | 26.25 | 15.64 | 41.89 | 54.00 | -12.11 | H | AV |
| 4924.000 | 48.76 | 12.55 | 61.31 | 74.00 | -12.69 | V | PK |
| 4924.000 | 34.71 | 12.55 | 47.26 | 54.00 | -6.74 | V | AV |
| 7386.000 | 37.25 | 15.64 | 52.89 | 74.00 | -21.11 | V | PK |
| 7386.000 | 26.36 | 15.64 | 42.00 | 54.00 | -12.00 | V | AV |

Test Mode: 802.11g

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|---------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel-2412MHz | | | | | | | |
| 4824.000 | 48.60 | 12.37 | 60.97 | 74.00 | -13.03 | H | PK |
| 4824.000 | 36.32 | 12.37 | 48.69 | 54.00 | -5.31 | H | AV |
| 7236.000 | 34.53 | 15.49 | 50.02 | 74.00 | -23.98 | H | PK |
| 7236.000 | 22.71 | 15.49 | 38.20 | 54.00 | -15.80 | H | AV |
| 4824.000 | 43.55 | 12.37 | 55.92 | 74.00 | -18.08 | V | PK |
| 4824.000 | 32.76 | 12.37 | 45.13 | 54.00 | -8.87 | V | AV |
| 7236.000 | 34.94 | 15.49 | 50.43 | 74.00 | -23.57 | V | PK |
| 7236.000 | 21.27 | 15.49 | 36.76 | 54.00 | -17.24 | V | AV |
| Middle Channel-2437MHz | | | | | | | |
| 4874.000 | 43.22 | 12.46 | 55.68 | 74.00 | -18.32 | H | PK |
| 4874.000 | 31.86 | 12.46 | 44.32 | 54.00 | -9.68 | H | AV |
| 7311.000 | 37.21 | 15.56 | 52.77 | 74.00 | -21.23 | H | PK |
| 7311.000 | 25.85 | 15.56 | 41.41 | 54.00 | -12.59 | H | AV |
| 4874.000 | 43.64 | 12.46 | 56.1 | 74.00 | -17.900 | V | PK |
| 4874.000 | 31.98 | 12.46 | 44.44 | 54.00 | -9.56 | V | AV |
| 7311.000 | 37.44 | 15.56 | 53.00 | 74.00 | -21.00 | V | PK |
| 7311.000 | 25.91 | 15.56 | 41.47 | 54.00 | -12.53 | V | AV |
| High Channel-2462MHz | | | | | | | |
| 4924.000 | 43.01 | 12.55 | 55.56 | 74.00 | -18.44 | H | PK |
| 4924.000 | 31.52 | 12.55 | 44.07 | 54.00 | -9.93 | H | AV |
| 7386.000 | 38.36 | 15.64 | 54.00 | 74.00 | -20.00 | H | PK |
| 7386.000 | 26.31 | 15.64 | 41.95 | 54.00 | -12.05 | H | AV |
| 4924.000 | 42.92 | 12.55 | 55.47 | 74.00 | -18.53 | V | PK |
| 4924.000 | 31.66 | 12.55 | 44.21 | 54.00 | -9.79 | V | AV |
| 7386.000 | 37.51 | 15.64 | 53.15 | 74.00 | -20.85 | V | PK |
| 7386.000 | 26.35 | 15.64 | 41.99 | 54.00 | -12.01 | V | AV |

Test Mode: 802.11n-HT20

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel-2412MHz | | | | | | | |
| 4824.000 | 43.41 | 12.37 | 55.78 | 74.00 | -18.22 | H | PK |
| 4824.000 | 31.62 | 12.37 | 43.99 | 54.00 | -10.01 | H | AV |
| 7236.000 | 33.66 | 15.49 | 49.15 | 74.00 | -24.85 | H | PK |
| 7236.000 | 22.71 | 15.49 | 38.20 | 54.00 | -15.80 | H | AV |
| 4824.000 | 42.55 | 12.37 | 54.92 | 74.00 | -19.08 | V | PK |
| 4824.000 | 31.57 | 12.37 | 43.94 | 54.00 | -10.06 | V | AV |
| 7236.000 | 34.18 | 15.49 | 49.67 | 74.00 | -24.33 | V | PK |
| 7236.000 | 22.61 | 15.49 | 38.10 | 54.00 | -15.90 | V | AV |
| Middle Channel-2437MHz | | | | | | | |
| 4874.000 | 35.12 | 12.46 | 47.58 | 54.00 | -26.42 | H | PK |
| 4874.000 | 45.41 | 12.46 | 57.87 | 74.00 | -16.13 | H | AV |
| 7311.000 | 38.26 | 15.56 | 53.82 | 74.00 | -20.18 | H | PK |
| 7311.000 | 25.93 | 15.56 | 41.49 | 54.00 | -12.51 | H | AV |
| 4874.000 | 37.01 | 12.46 | 49.47 | 54.00 | -24.53 | V | PK |
| 4874.000 | 48.74 | 12.46 | 61.2 | 74.00 | 12.80 | V | AV |
| 7311.000 | 36.78 | 15.56 | 52.34 | 74.00 | -21.66 | V | PK |
| 7311.000 | 26.01 | 15.56 | 41.57 | 54.00 | -12.43 | V | AV |
| High Channel-2462MHz | | | | | | | |
| 4924.000 | 42.22 | 12.55 | 54.77 | 74.00 | -19.23 | H | PK |
| 4924.000 | 31.46 | 12.55 | 44.01 | 54.00 | -9.99 | H | AV |
| 7386.000 | 37.64 | 15.64 | 53.28 | 74.00 | -20.72 | H | PK |
| 7386.000 | 26.17 | 15.64 | 41.81 | 54.00 | -12.19 | H | AV |
| 4924.000 | 42.55 | 12.55 | 55.10 | 74.00 | -18.90 | V | PK |
| 4924.000 | 31.64 | 12.55 | 44.19 | 54.00 | -9.81 | V | AV |
| 7386.000 | 37.13 | 15.64 | 52.77 | 74.00 | -21.23 | V | PK |
| 7386.000 | 26.12 | 15.64 | 41.76 | 54.00 | -12.24 | V | AV |

Test Mode: 802.11n-HT40

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel-2422MHz | | | | | | | |
| 4844.000 | 43.71 | 12.40 | 56.11 | 74.00 | -17.89 | H | PK |
| 4824.000 | 32.95 | 12.40 | 45.35 | 54.00 | -8.65 | H | AV |
| 7266.000 | 35.26 | 15.52 | 50.78 | 74.00 | -23.22 | H | PK |
| 7266.000 | 26.44 | 15.52 | 41.96 | 54.00 | -12.04 | H | AV |
| 4844.000 | 45.81 | 12.40 | 58.21 | 74.00 | -15.79 | V | PK |
| 4824.000 | 32.12 | 12.40 | 44.52 | 54.00 | -9.48 | V | AV |
| 7266.000 | 35.86 | 15.52 | 51.38 | 74.00 | -22.62 | V | PK |
| 7266.000 | 25.71 | 15.52 | 41.23 | 54.00 | -12.77 | V | AV |
| Middle Channel-2437MHz | | | | | | | |
| 4874.000 | 43.82 | 12.46 | 56.28 | 74.00 | -17.72 | H | PK |
| 4874.000 | 31.76 | 12.46 | 44.22 | 54.00 | -9.78 | H | AV |
| 7311.000 | 36.74 | 15.56 | 52.30 | 74.00 | -21.70 | H | PK |
| 7311.000 | 26.46 | 15.56 | 42.02 | 54.00 | -11.98 | H | AV |
| 4874.000 | 43.14 | 12.46 | 55.60 | 74.00 | -18.40 | V | PK |
| 4874.000 | 31.76 | 12.46 | 44.22 | 54.00 | -9.78 | V | AV |
| 7311.000 | 37.04 | 15.56 | 52.60 | 74.00 | -21.40 | V | PK |
| 7311.000 | 26.62 | 15.56 | 42.18 | 54.00 | -11.82 | V | AV |
| High Channel-2452MHz | | | | | | | |
| 4904.000 | 43.26 | 12.52 | 55.78 | 74.00 | -18.22 | H | PK |
| 4904.000 | 31.51 | 12.52 | 44.03 | 54.00 | -9.97 | H | AV |
| 7356.000 | 37.62 | 15.61 | 53.23 | 74.00 | -20.77 | H | PK |
| 7356.000 | 26.56 | 15.61 | 42.17 | 54.00 | -11.83 | H | AV |
| 4904.000 | 43.14 | 12.52 | 55.66 | 74.00 | -18.34 | V | PK |
| 4904.000 | 31.56 | 12.52 | 44.08 | 54.00 | -9.92 | V | AV |
| 7356.000 | 37.51 | 15.61 | 53.12 | 74.00 | -20.88 | V | PK |
| 7356.000 | 26.02 | 15.61 | 41.63 | 54.00 | -12.37 | V | AV |

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz.

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Procedure

According to the KDB 558074D01 v03r04, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

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

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

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

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 v03r04, the conducted spurious emissions test method as follows:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100 kHz.
4. Set VBW \geq 300 kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

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

9.3 Environmental Conditions

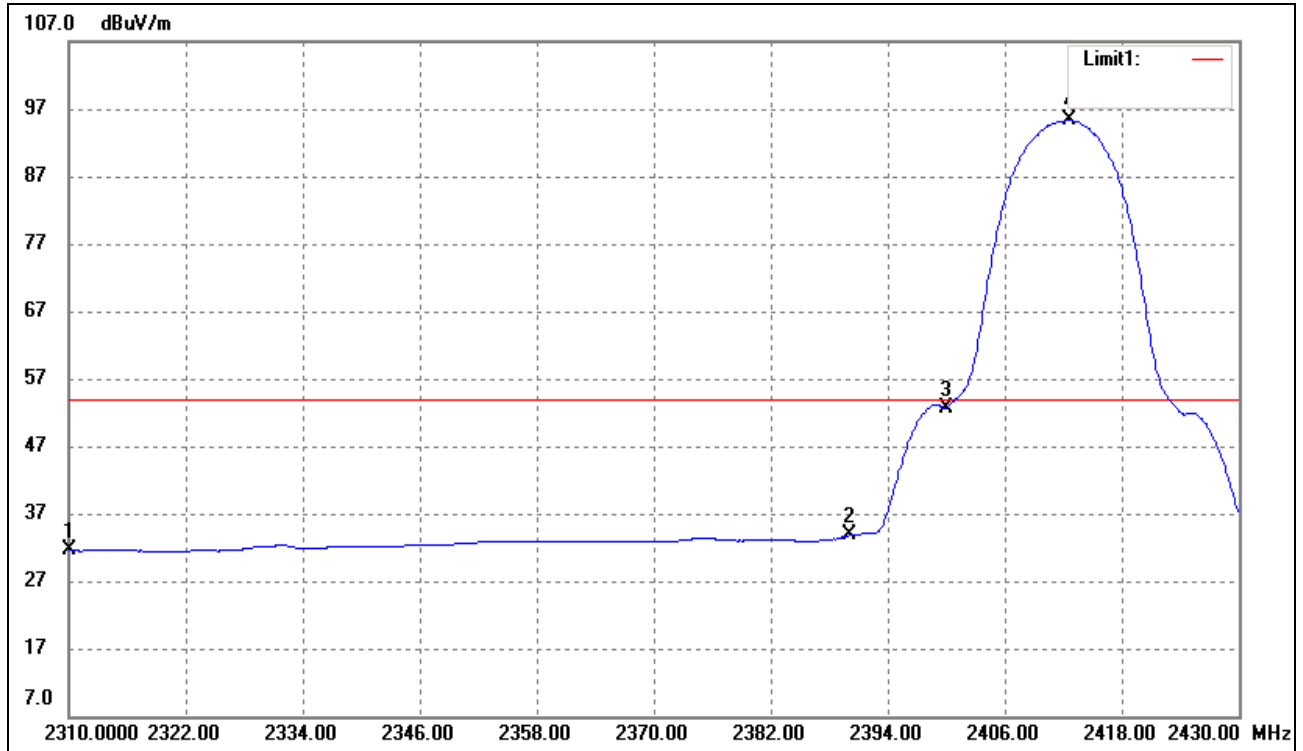
| | |
|--------------------|-----------|
| Temperature: | 23°C |
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

9.4 Summary of Test Results/Plots

Please refer to the test plots as below.

802.11b-Lowest Bandedge

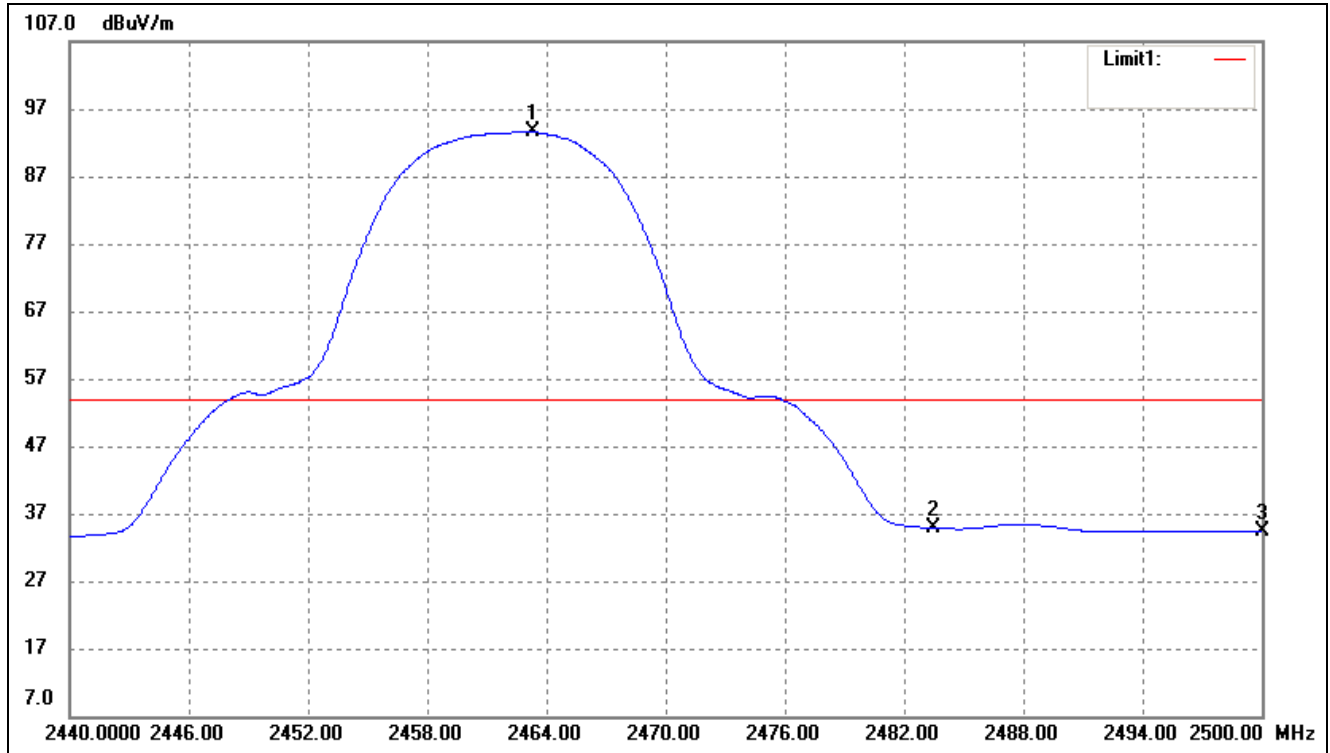
Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1 | 2310.000 | 35.35 | -3.80 | 31.55 | 54.00 | -22.45 | Average Detector |
| | 2310.000 | 47.65 | -3.80 | 43.85 | 74.00 | -30.15 | Peak Detector |
| 2 | 2390.000 | 36.79 | -3.00 | 33.79 | 54.00 | -20.21 | Average Detector |
| | 2390.000 | 49.61 | -3.00 | 46.61 | 74.00 | -27.39 | Peak Detector |
| 3 | 2400.000 | 55.61 | -2.90 | 52.71 | Delta =42.64dBc | | Average Detector |
| 4 | 2412.600 | 98.17 | -2.83 | 95.34 | | | Average Detector |

802.11b-Highest Bandedge

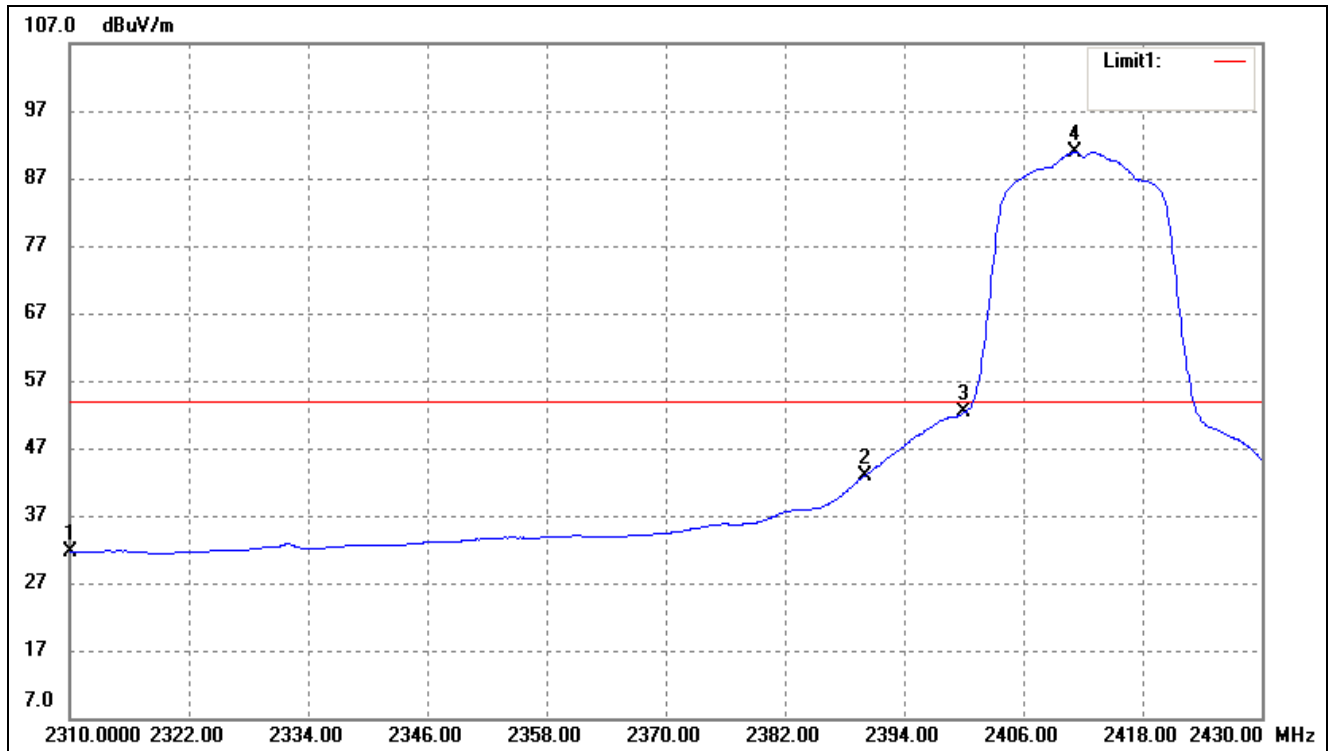
Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|------------------|
| 1 | 2463.280 | 96.25 | -2.58 | 93.67 | / | / | Average Detector |
| | 2463.280 | 104.61 | -2.58 | 102.03 | / | / | Peak Detector |
| 2 | 2483.500 | Delta =66.05 dBc | | 27.62 | 54.00 | -26.38 | Average Detector |
| | 2483.500 | | | 35.98 | 74.00 | -38.02 | Peak Detector |
| 3 | 2500.000 | 36.74 | -2.40 | 34.34 | 54.00 | -19.66 | Average Detector |
| | 2500.000 | 49.05 | -2.40 | 46.65 | 74.00 | -27.35 | Peak Detector |

802.11g-Lowest Bandedge

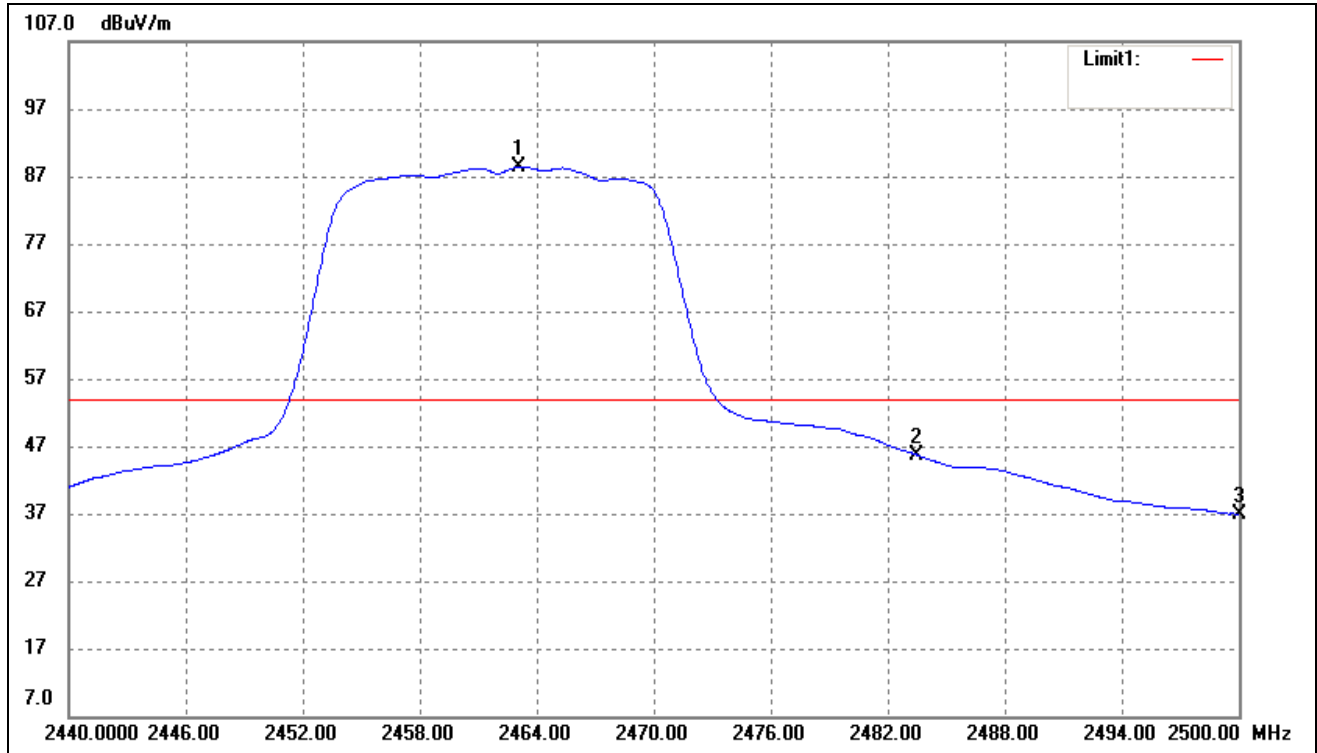
Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1 | 2310.000 | 35.48 | -3.80 | 31.68 | 54.00 | -22.32 | Average Detector |
| | 2310.000 | 46.54 | -3.80 | 42.74 | 74.00 | -31.26 | Peak Detector |
| 2 | 2390.000 | 45.95 | -3.00 | 42.95 | 54.00 | -11.05 | Average Detector |
| | 2390.000 | 62.99 | -3.00 | 59.99 | 74.00 | -14.01 | Peak Detector |
| 3 | 2400.000 | 55.16 | -2.90 | 52.26 | Delta =38.62dBc | | Average Detector |
| 4 | 2411.160 | 93.73 | -2.85 | 90.88 | | | Average Detector |

802.11g-Highest Bandedge

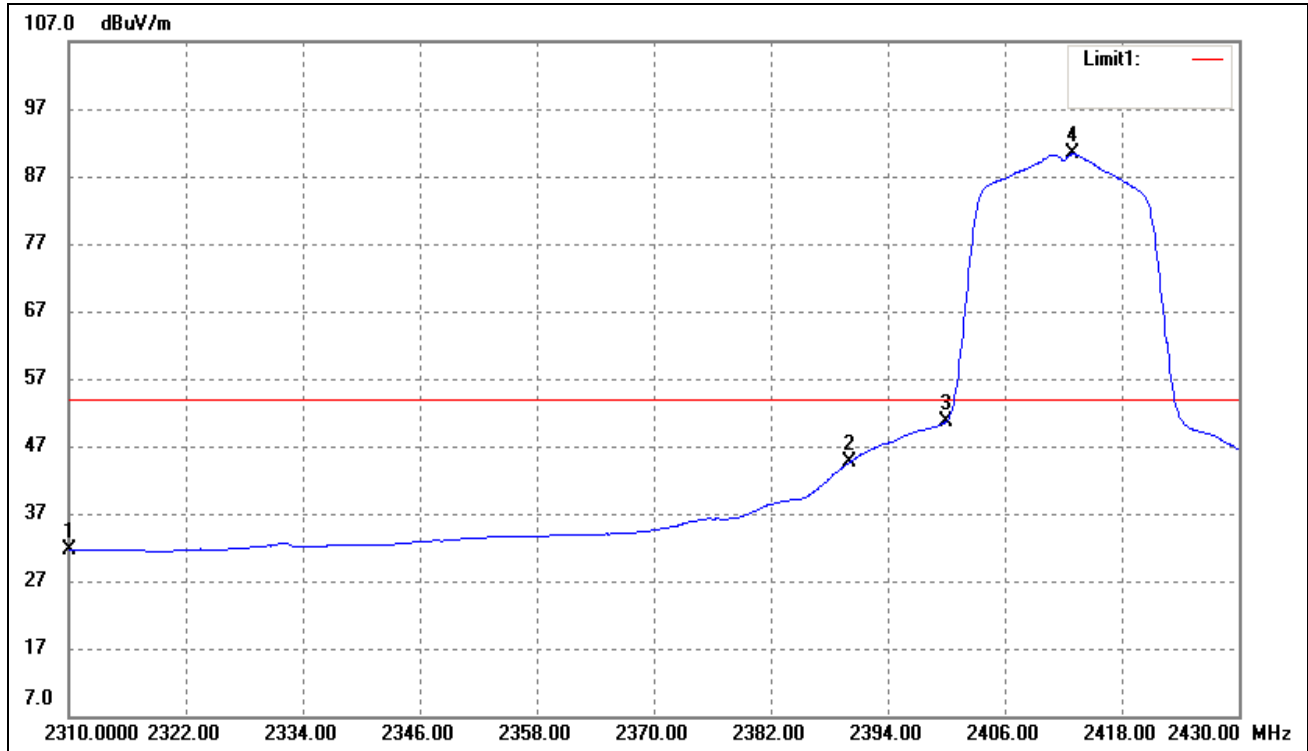
Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1 | 2463.100 | 90.98 | -2.58 | 88.40 | / | / | Average Detector |
| | 2463.700 | 102.80 | -2.58 | 100.22 | / | / | Peak Detector |
| 2 | 2483.500 | Delta =50.33 dBc | | 38.07 | 54.00 | -15.93 | Average Detector |
| | 2483.500 | | | 49.89 | 74.00 | -24.11 | Peak Detector |
| 3 | 2500.000 | 39.36 | -2.40 | 36.96 | 54.00 | -17.04 | Average Detector |
| | 2500.000 | 52.50 | -2.40 | 50.10 | 74.00 | -23.90 | Peak Detector |

802.11n-HT20-Lowest Bandedge

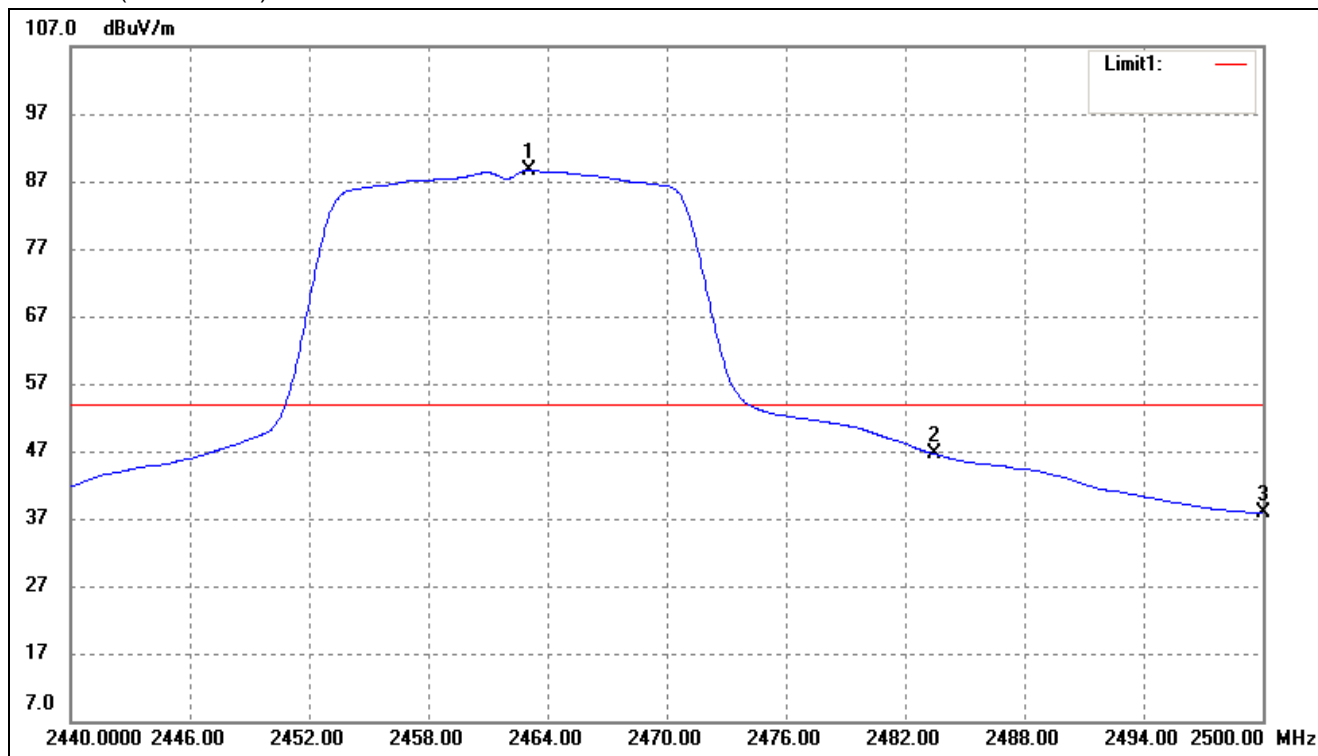
Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1 | 2310.000 | 35.41 | -3.80 | 31.61 | 54.00 | -22.39 | Average Detector |
| | 2310.000 | 46.66 | -3.80 | 42.86 | 74.00 | -31.14 | Peak Detector |
| 2 | 2390.000 | 47.60 | -3.00 | 44.60 | 54.00 | -9.40 | Average Detector |
| | 2390.000 | 65.83 | -3.00 | 62.83 | 74.00 | -11.17 | Peak Detector |
| 3 | 2400.000 | 53.56 | -2.90 | 50.66 | Delta =39.68dBc | | Average Detector |
| 4 | 2412.960 | 93.17 | -2.83 | 90.34 | | | Average Detector |

802.11n-HT20-Highest Bandedge

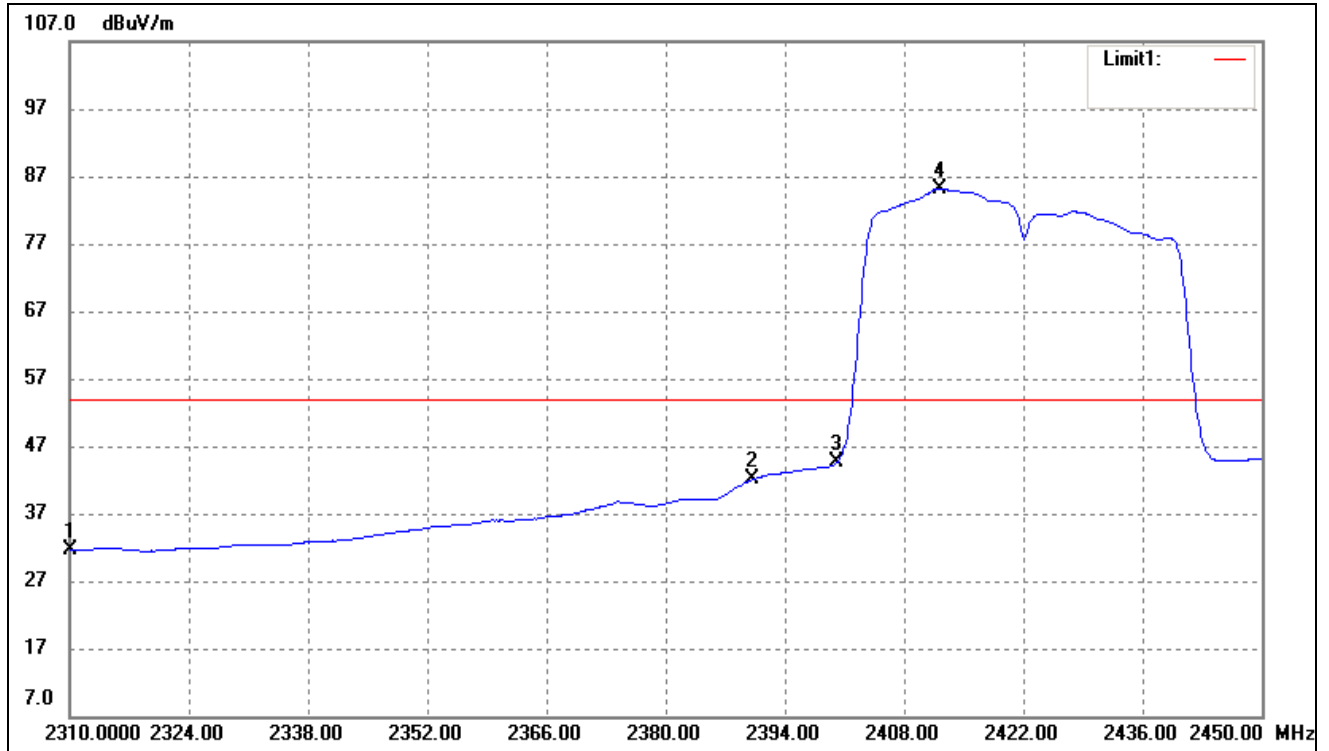
Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1 | 2463.040 | 91.25 | -2.58 | 88.67 | / | / | Average Detector |
| | 2461.300 | 102.33 | -2.59 | 99.74 | / | / | Peak Detector |
| 2 | 2483.500 | Delta =51.09 dBc | | 37.58 | 54.00 | -16.42 | Average Detector |
| | 2483.500 | | | 48.65 | 74.00 | -25.35 | Peak Detector |
| 3 | 2500.000 | 40.23 | -2.40 | 37.83 | 54.00 | -16.17 | Average Detector |
| | 2500.000 | 57.49 | -2.40 | 55.09 | 74.00 | -18.91 | Peak Detector |

802.11n-HT40-Lowest Bandedge

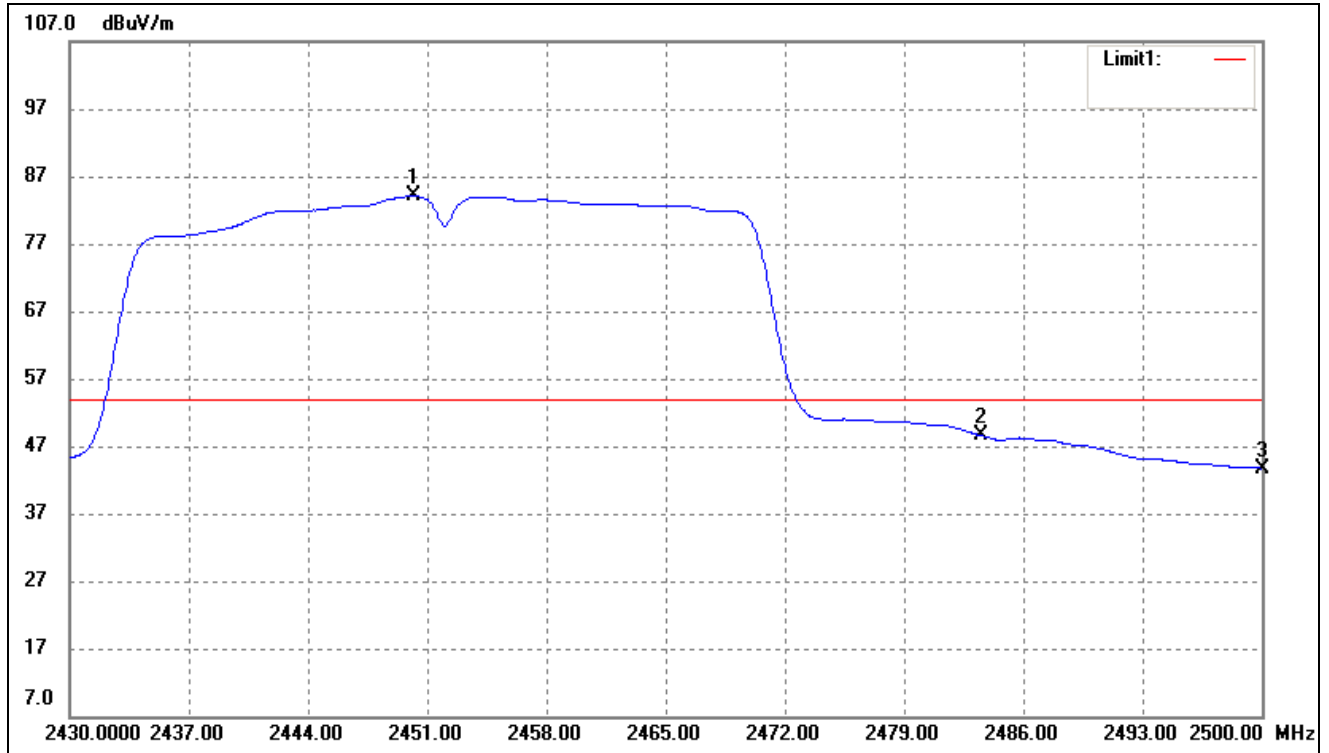
Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1 | 2310.000 | 35.52 | -3.80 | 31.72 | 54.00 | -22.28 | Average Detector |
| | 2310.000 | 47.57 | -3.80 | 43.77 | 74.00 | -30.23 | Peak Detector |
| 2 | 2390.000 | 45.06 | -3.00 | 42.06 | 54.00 | -11.94 | Average Detector |
| | 2390.000 | 63.22 | -3.00 | 60.22 | 74.00 | -13.78 | Peak Detector |
| 3 | 2400.000 | 47.45 | -2.90 | 44.55 | Delta =40.65 dBc | | Average Detector |
| 4 | 2412.200 | 88.04 | -2.84 | 85.20 | | | Average Detector |

802.11n-HT40-Highest Bandedge

Vertical (Worst case)



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1 | 2450.230 | 86.77 | -2.65 | 84.12 | / | / | Average Detector |
| | 2455.060 | 97.76 | -2.62 | 95.14 | / | / | Peak Detector |
| 2 | 2483.500 | Delta =51.09 dBc | | 33.03 | 54.00 | -20.97 | Average Detector |
| | 2483.500 | | | 44.05 | 74.00 | -29.95 | Peak Detector |
| 3 | 2500.000 | 46.14 | -2.40 | 43.74 | 54.00 | -10.26 | Average Detector |
| | 2500.000 | 63.00 | -2.40 | 60.60 | 74.00 | -13.40 | Peak Detector |

10. Conducted Emissions

10.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

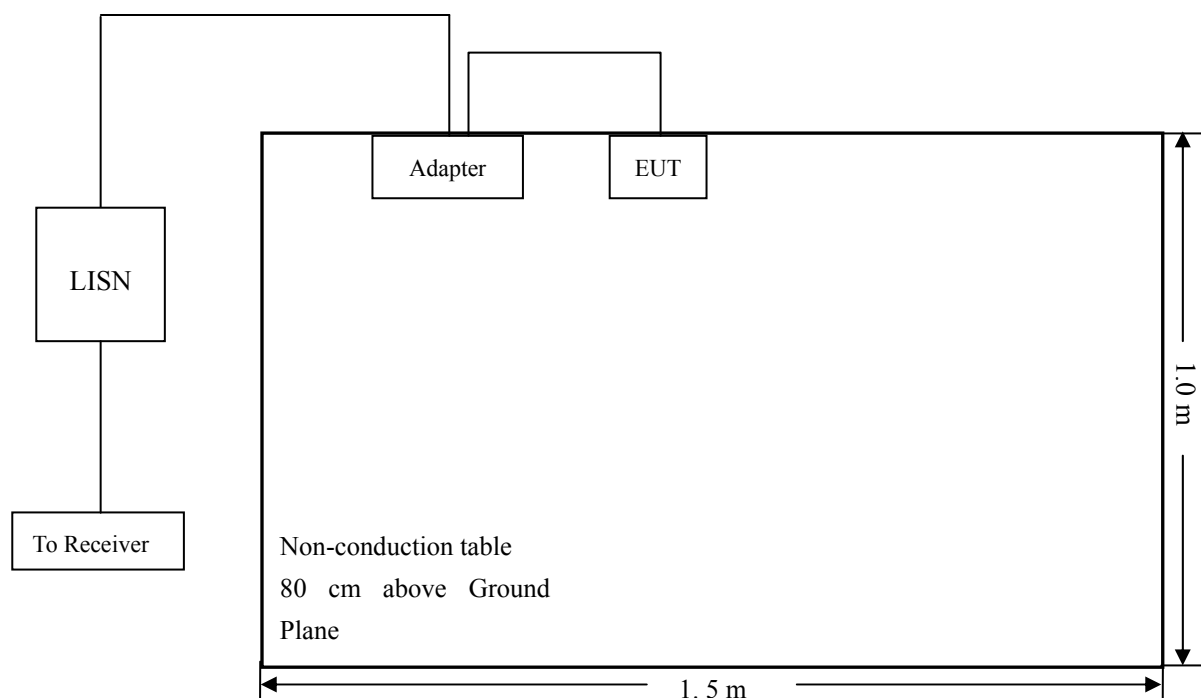
10.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

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

The spacing between the peripherals was 10 cm.

10.3 Basic Test Setup Block Diagram



10.4 Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 52% |
| ATM Pressure: | 1012 mbar |

10.5 Test Receiver Setup

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

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

10.6 Summary of Test Results/Plots

According to the data in section 10.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

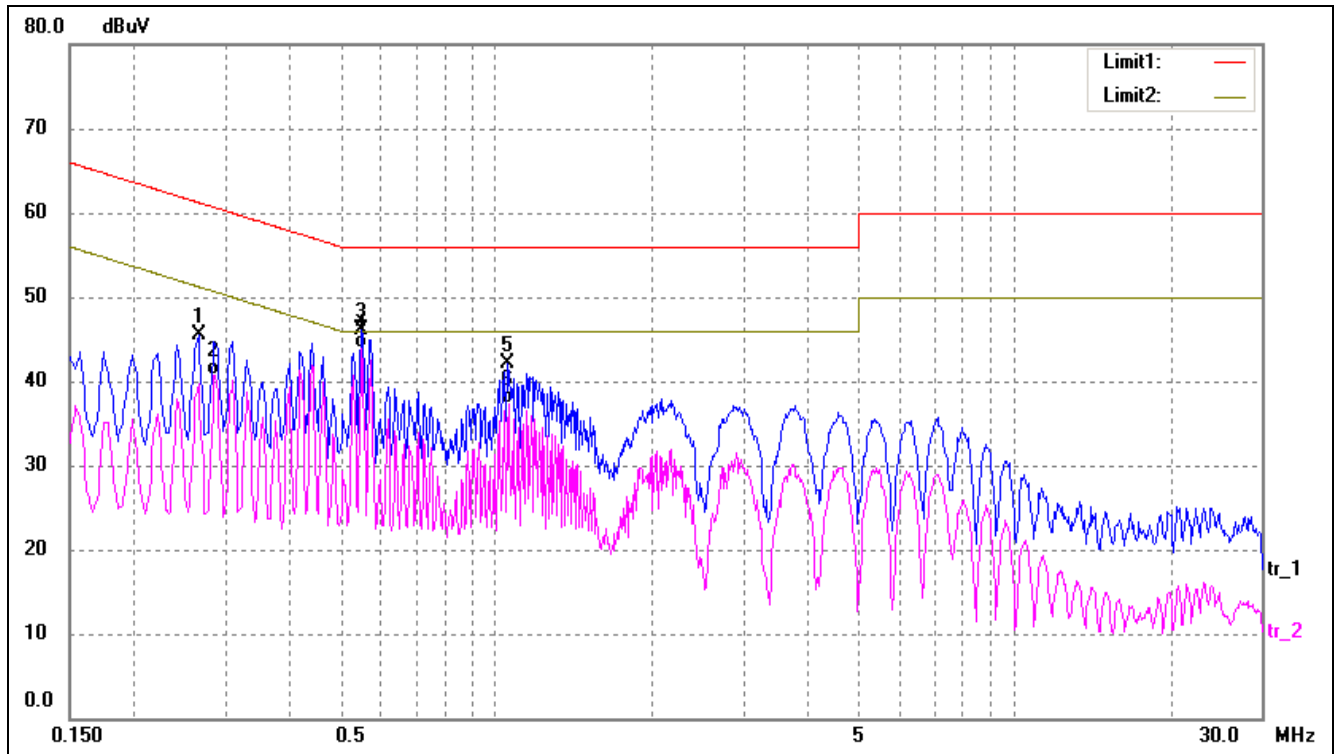
-2.06 dB at 0.5500 MHz in the Neutral, AVG detector, 0.15-30MHz

10.7 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

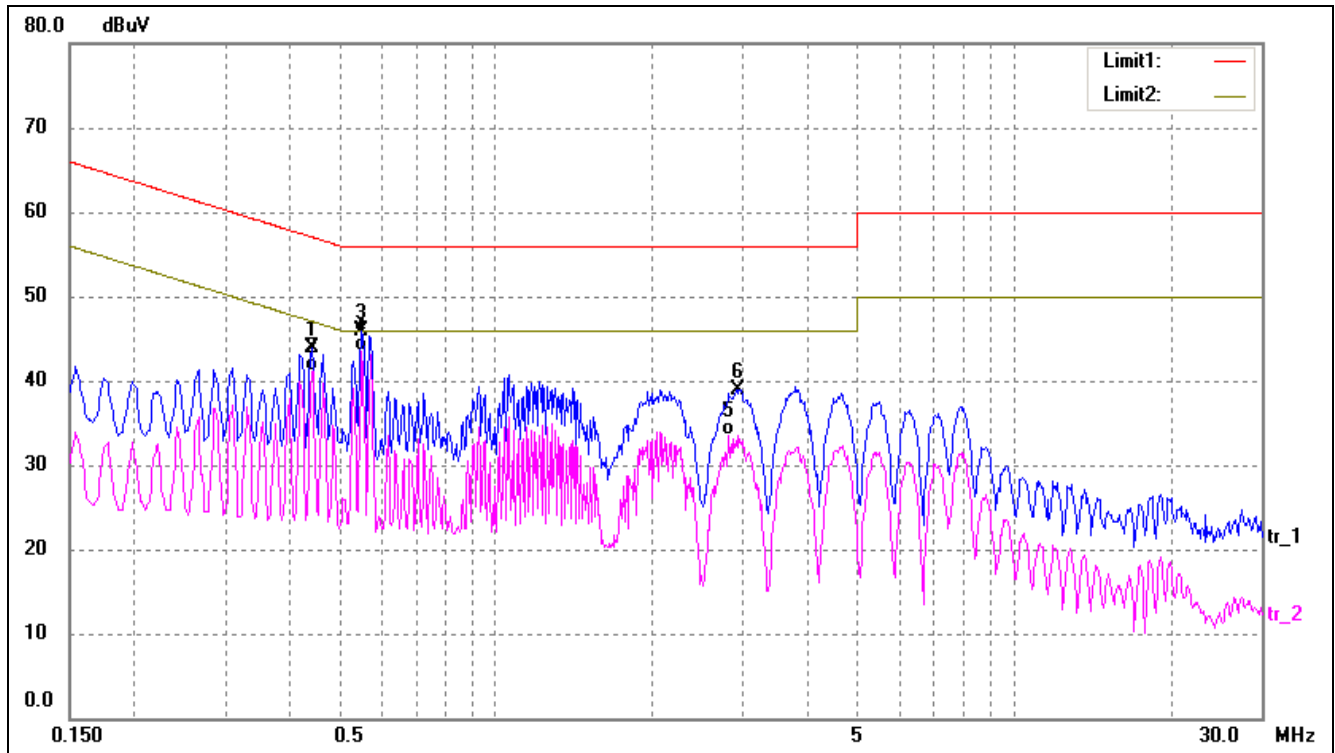
EUT: Mobile phone
 Tested Model: G26A
 Operating Condition: (WIFI)Transmitting
 Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Neutral



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1* | 0.2660 | 33.07 | 12.50 | 45.57 | 61.24 | -15.67 | peak |
| 2 | 0.2860 | 28.27 | 12.50 | 40.77 | 50.64 | -9.87 | AVG |
| 3 | 0.5500 | 33.51 | 12.55 | 46.06 | 56.00 | -9.94 | peak |
| 4 | 0.5500 | 31.39 | 12.55 | 43.94 | 46.00 | -2.06 | AVG |
| 5 | 1.0540 | 29.17 | 13.00 | 42.17 | 56.00 | -13.83 | peak |
| 6 | 1.0580 | 24.32 | 13.00 | 37.32 | 46.00 | -8.68 | AVG |

Test Specification: Line



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|--------------------|-------------------|-------------------|------------------|-----------------|----------------|----------|
| 1 | 0.4420 | 31.35 | 12.50 | 43.85 | 57.02 | -13.17 | peak |
| 2 | 0.4420 | 28.68 | 12.50 | 41.18 | 47.02 | -5.84 | AVG |
| 3 | 0.5500 | 33.36 | 12.55 | 45.91 | 56.00 | -10.09 | peak |
| 4 | 0.5500 | 30.87 | 12.55 | 43.42 | 46.00 | -2.58 | AVG |
| 5 | 2.8220 | 20.54 | 13.00 | 33.54 | 46.00 | -12.46 | AVG |
| 6 | 2.9300 | 25.97 | 13.00 | 38.97 | 56.00 | -17.03 | peak |

***** END OF REPORT *****