

FCC Part 15C Measurement and Test Report

For

XPX TECHNOLOGY CO., LTD

RM689B, HUAFA 411 Bldg. Huafa N. Road, Futian, Shenzhen, China

FCC ID: 2ADIZ-LIFE

FCC Rule(s): FCC Part 15C

Product Description: 3G Mobile phone

Tested Model: LIFE

Report No.: STR15068240I-2

Tested Date: 2015-06-29 to 2015-07-14

Issued Date: 2015-07-15

Tested By: Vigoss Liang / Engineer

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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: XPX TECHNOLOGY CO., LTD
 Address of applicant: RM689B, HUAFA 411 Bldg. Huafa N. Road, Futian, Shenzhen, China
 Manufacturer: XPX TECHNOLOGY CO., LTD
 Address of manufacturer: Flat2, 2/F, Wah Wai industrial Building, 53-61 Pak Tin Par Street, Tsuen Wan, NT, HK

General Description of EUT	
Product Name:	3G Mobile phone
Trade Name:	LIFE,XPX,ZILO
Model No.:	LIFE
Adding Model(s):	L4, L5, X35LIFE, X40LIFE, L45, L55, L35
Hardware Version:	CN513-MAINPCB-V2.0.0
Battery Capacity:	1400mAh
Software Version:	CN513EW_ZHANKAI_L40_FOREIGN_V1.0.0_user debug_r18402
Rated Voltage:	Battery: DC 3.7V
Power Adaptor:	XC20
	INPUT: AC100-240V 50/6Hz; OUTPUT: DC5V/2A
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model LIFE, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz
RF Output Power:	11.99dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11
Channel Separation:	5MHz
Type of Antenna:	FPCB Antenna
Antenna Gain:	0.2dBi

1.2 Test Standards

The following report is prepared on behalf of the XPX TECHNOLOGY CO., LTD 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 C63.4-2009, 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 V03r03 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	/	/

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Earphone Cable	1.0	Unshielded	Without Core
USB Cable	0.4	Shielded	Without Core

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	E10	LR-63C8R

1.6 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Due. Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2016-06-16
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2016-06-16
Amplifier	Agilent	8447F	3113A06717	2016-06-16
Amplifier	C&D	PAP-1G18	2002	2016-06-16
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2016-06-16
Horn Antenna	ETS	3117	00086197	2016-06-16
Horn Antenna	ETS	3116B	00088203	2016-06-16
Loop Antenna	Schwarz beck	FMZB 1516	9773	2016-06-16
Attenuator	ATTEN	ATS100-4-20	/	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2016-06-16
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2016-06-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	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 a FPCB 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 V03r03, 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

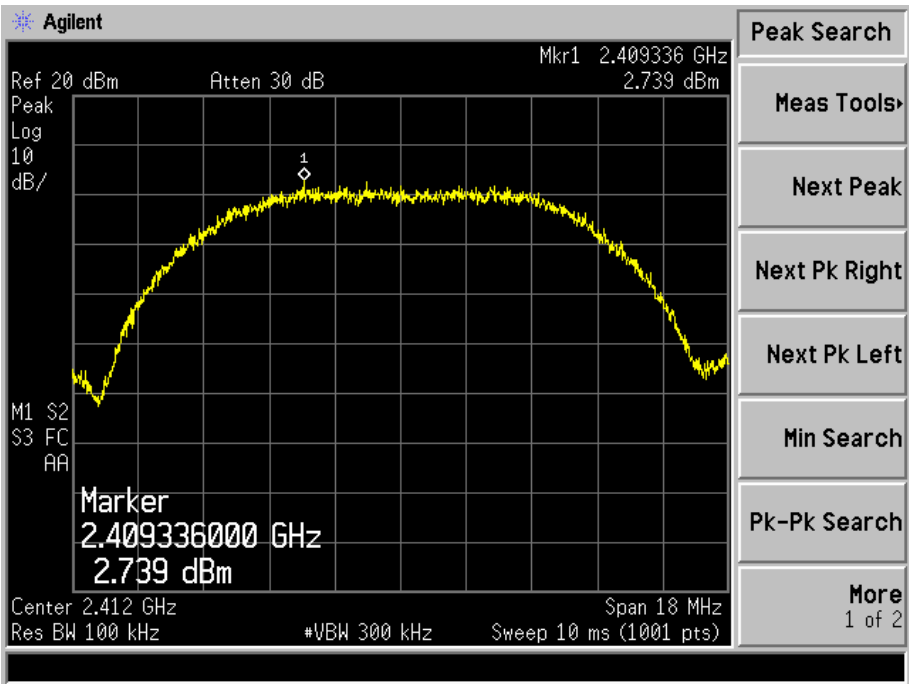
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.4 Summary of Test Results/Plots

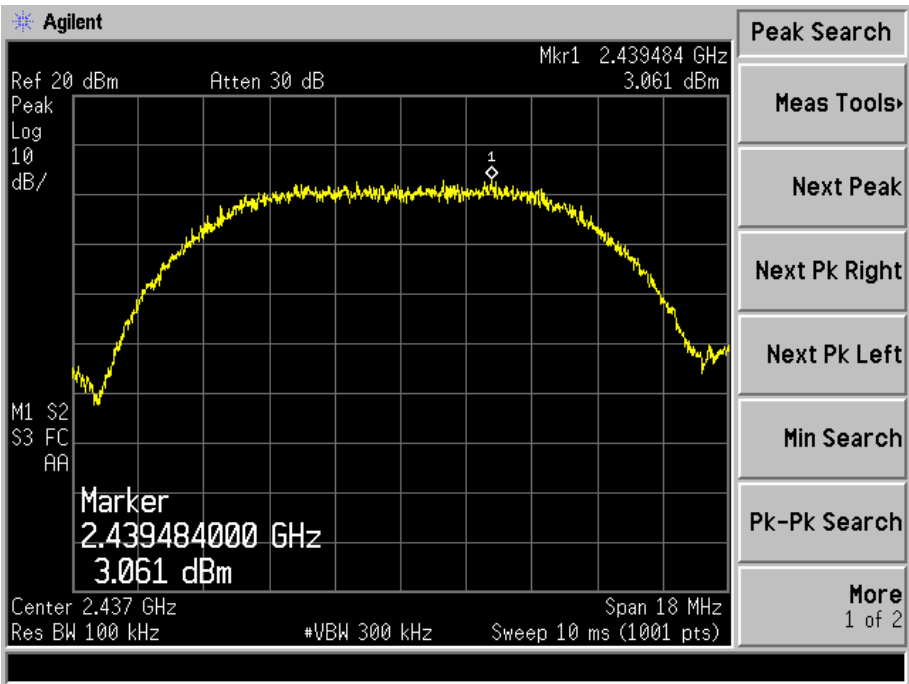
Test Mode	Test Channel MHz	Power Spectral Density dBm/100kHz	Limit dBm/3kHz
802.11b	2412	2.739	8
	2437	3.061	8
	2462	4.085	8
802.11g	2412	-2.675	8
	2437	-1.957	8
	2462	-1.232	8
802.11n HT20	2412	-5.426	8
	2437	-4.742	8
	2462	-4.009	8

Please refer to the following test plots:

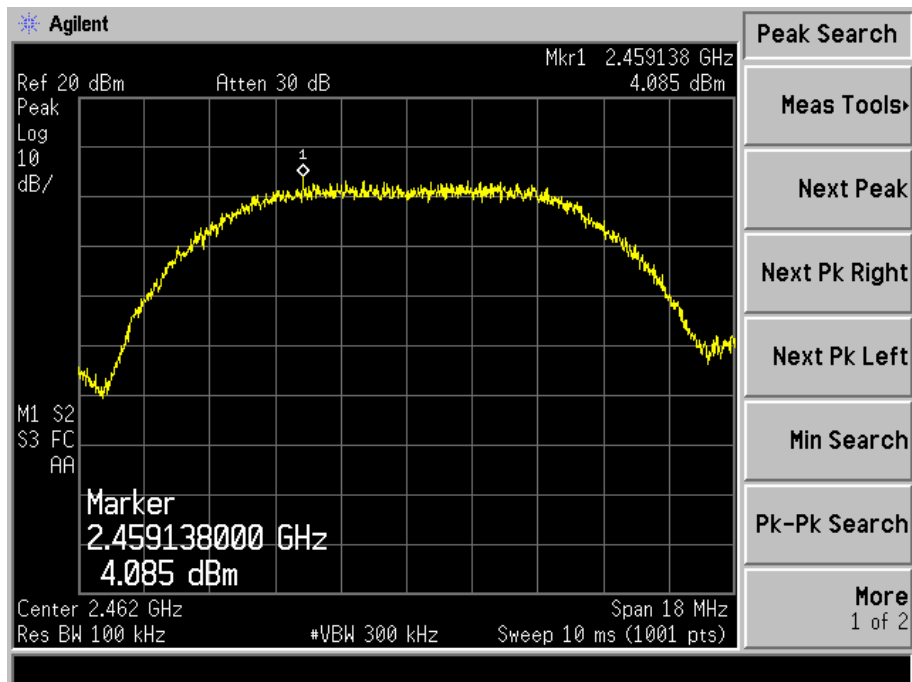
802.11b-Low Channel



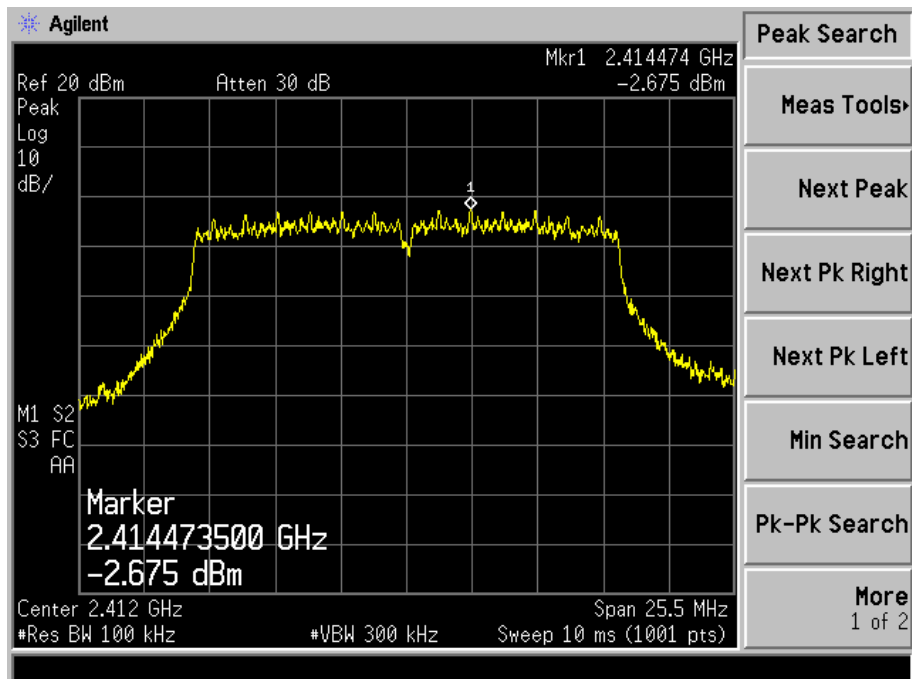
802.11b-Middle Channel



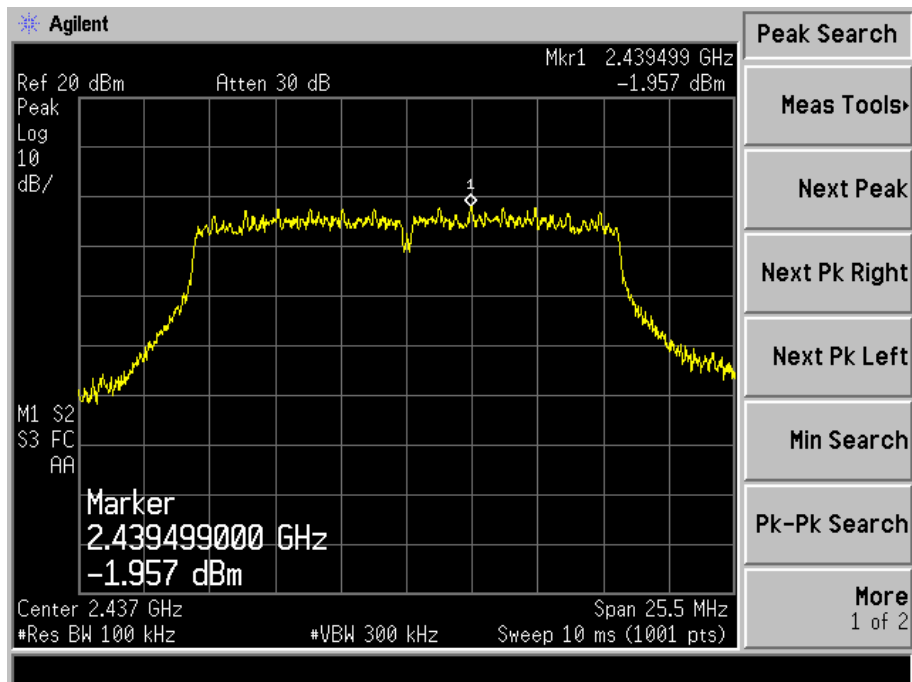
802.11b-High Channel



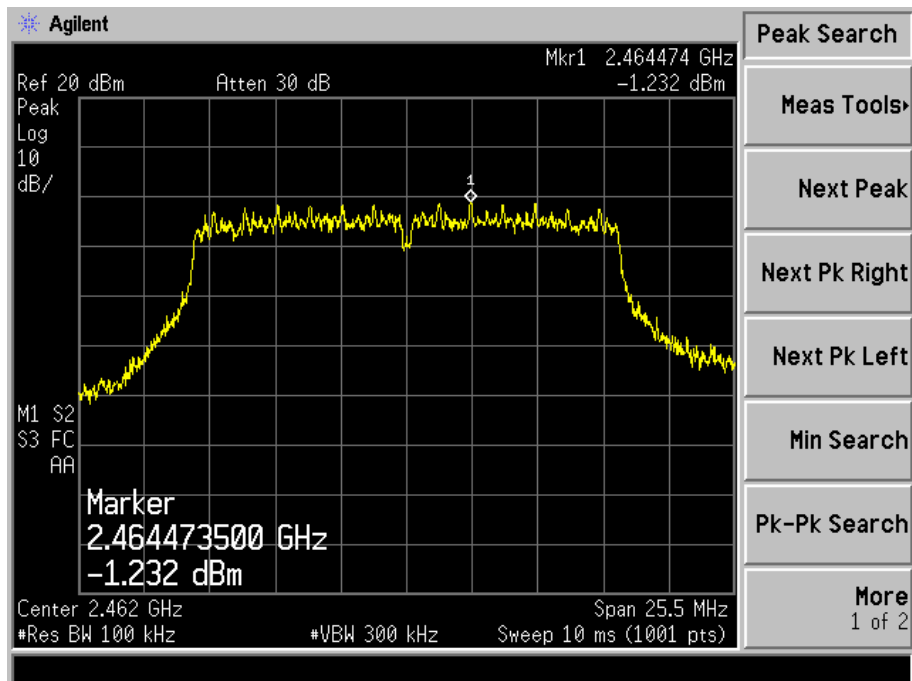
802.11g-Low Channel



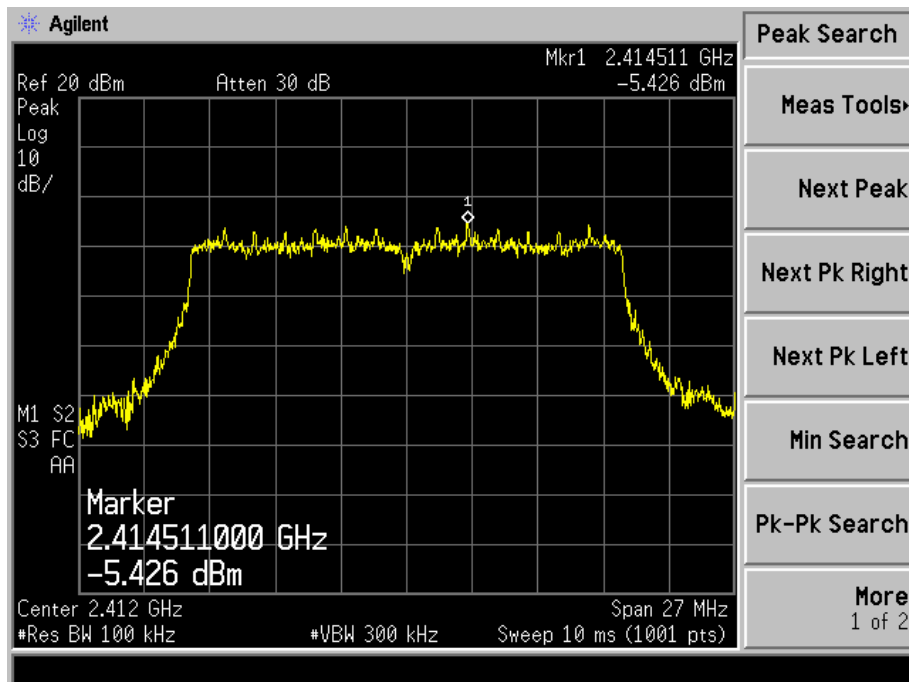
802.11g-Middle Channel



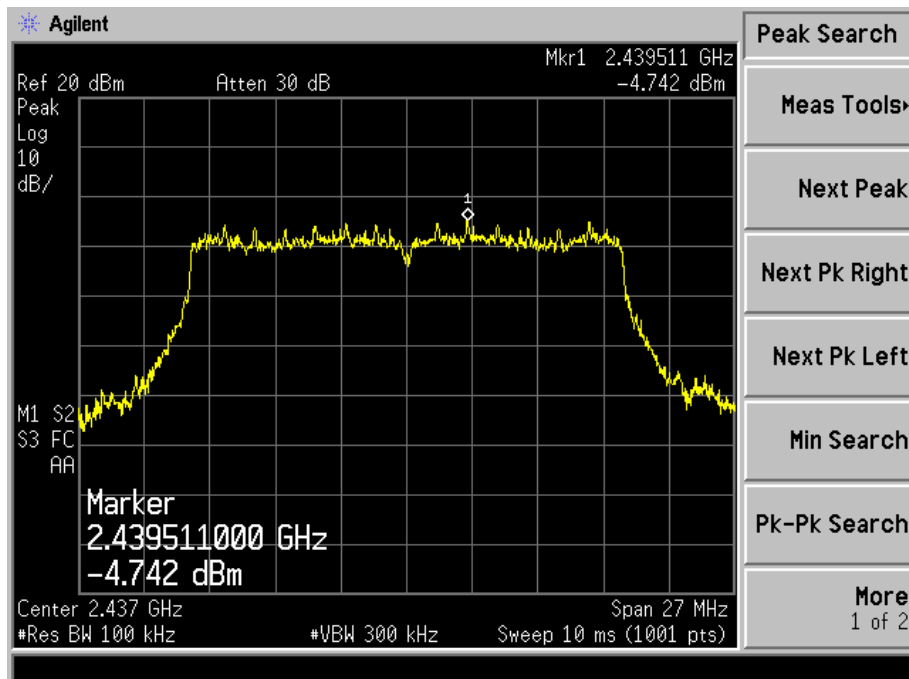
802.11g-High Channel



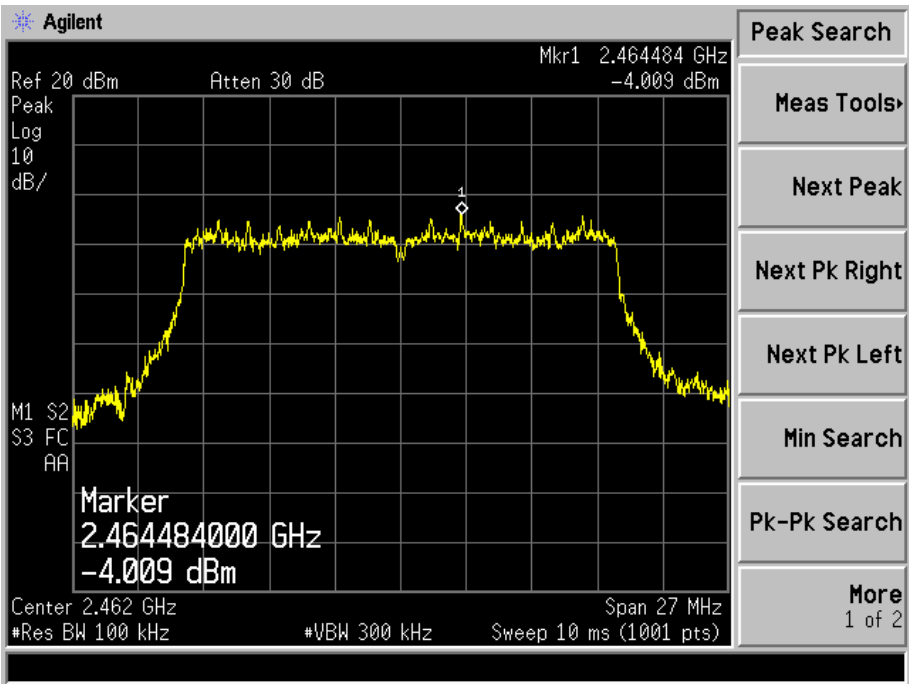
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



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

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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

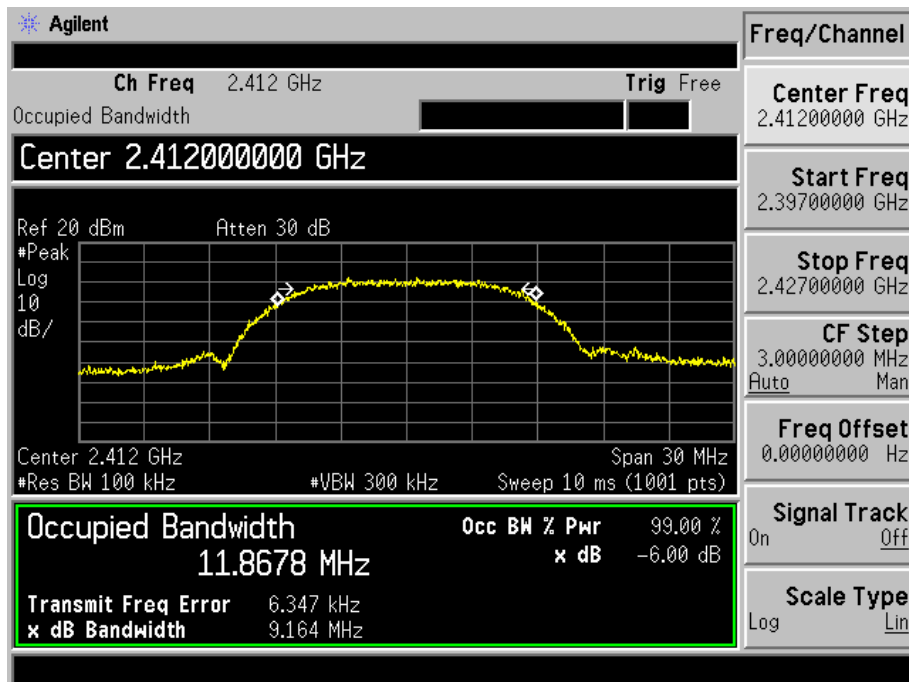
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

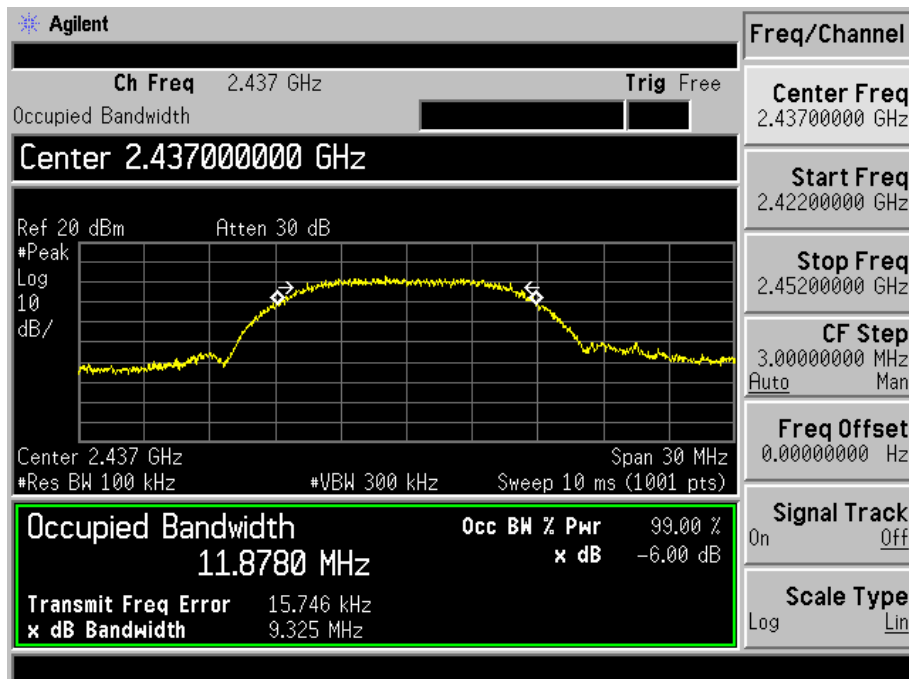
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	9.164	11.8678	500
	2437	9.325	11.8780	500
	2462	9.738	11.9726	500
802.11g	2412	16.404	16.3726	500
	2437	16.374	16.3642	500
	2462	16.366	16.3800	500
802.11n-HT20	2412	17.651	17.6214	500
	2437	17.617	17.6283	500
	2462	17.607	17.6178	500

Please refer to the following test plots:

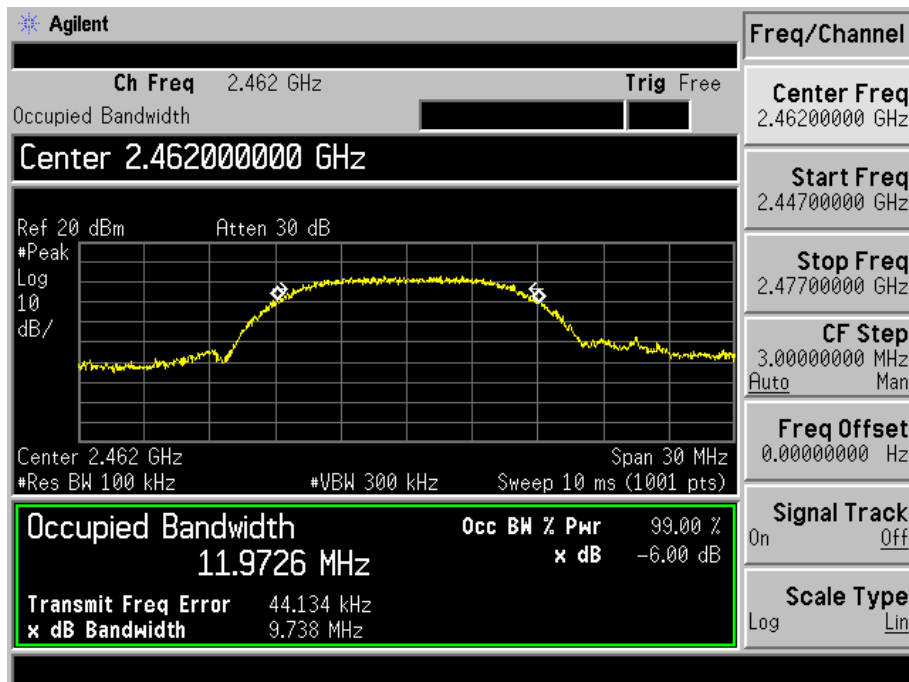
802.11b-Low Channel



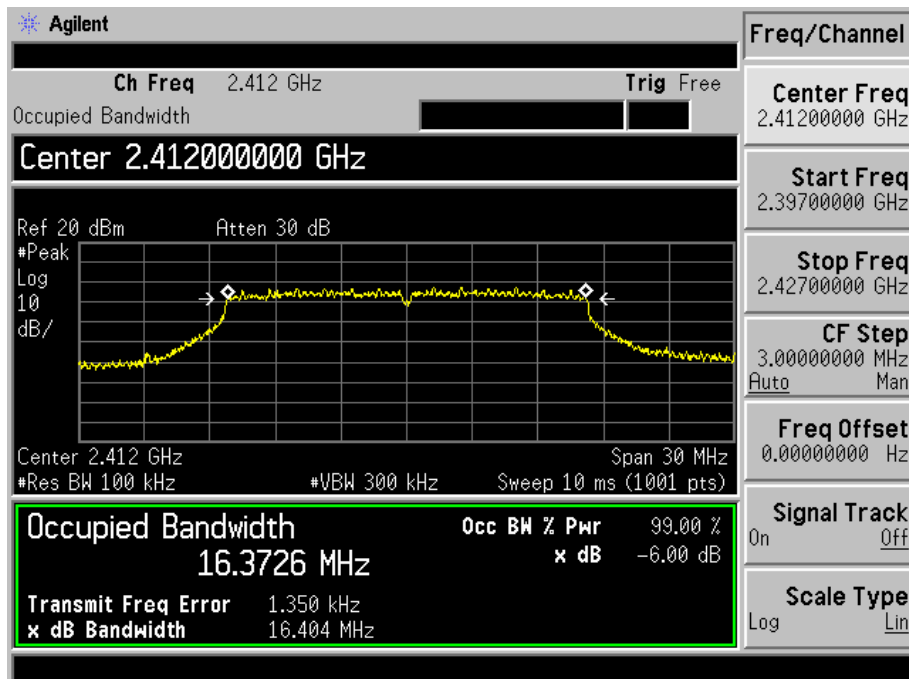
802.11b-Middle Channel



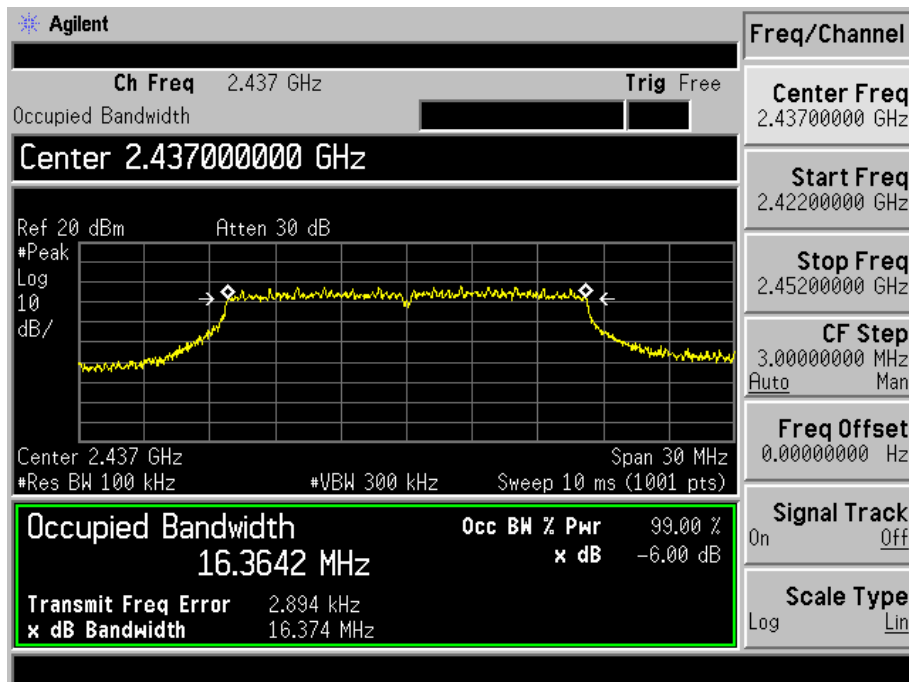
802.11b-High Channel



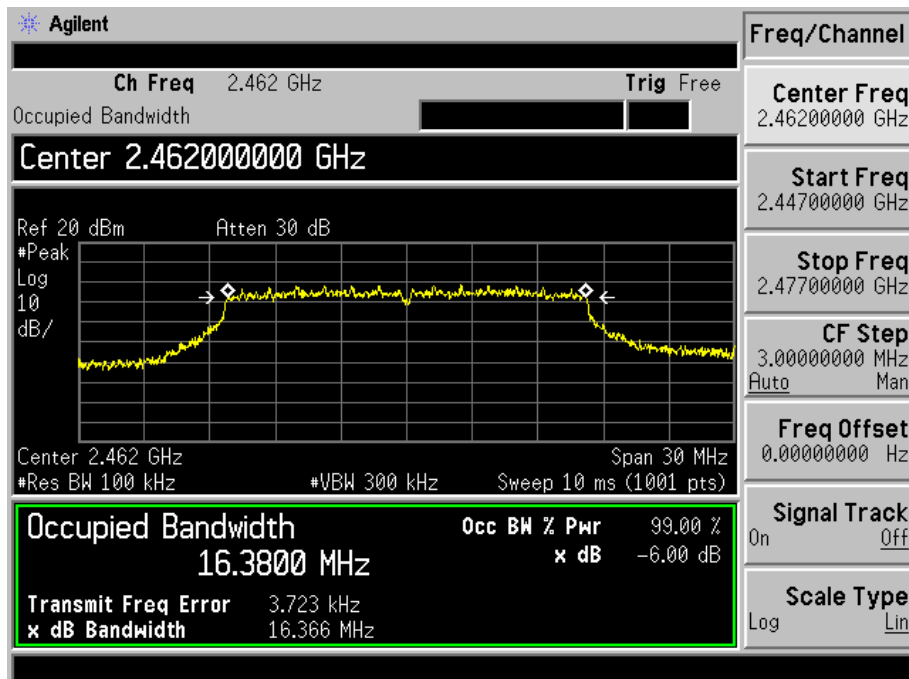
802.11g-Low Channel



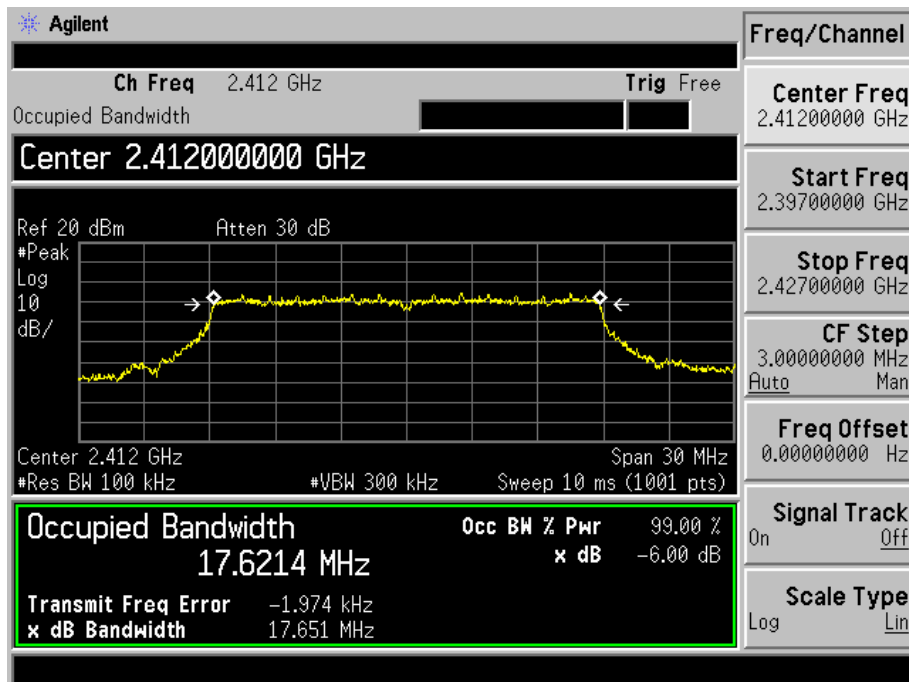
802.11g-Middle Channel



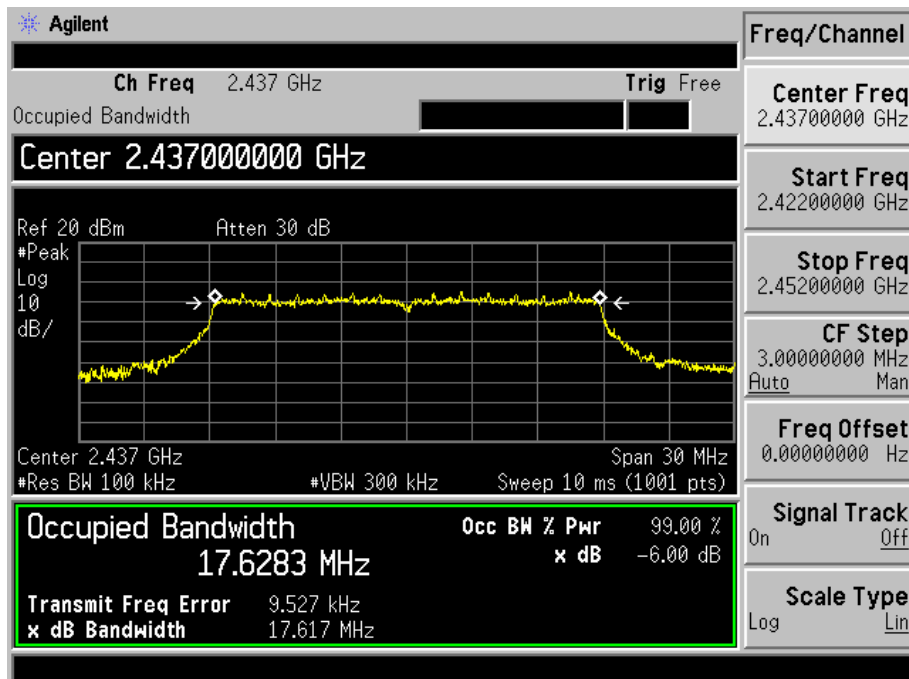
802.11g-High Channel



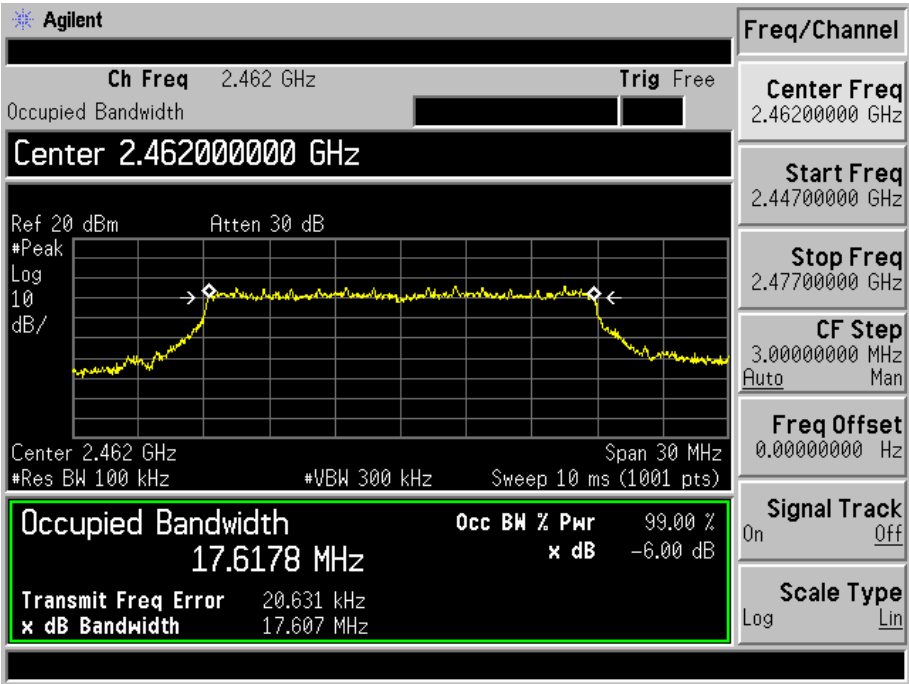
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



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 section 15.247(b)-power output of the KDB-558074 D01 V03r03, 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

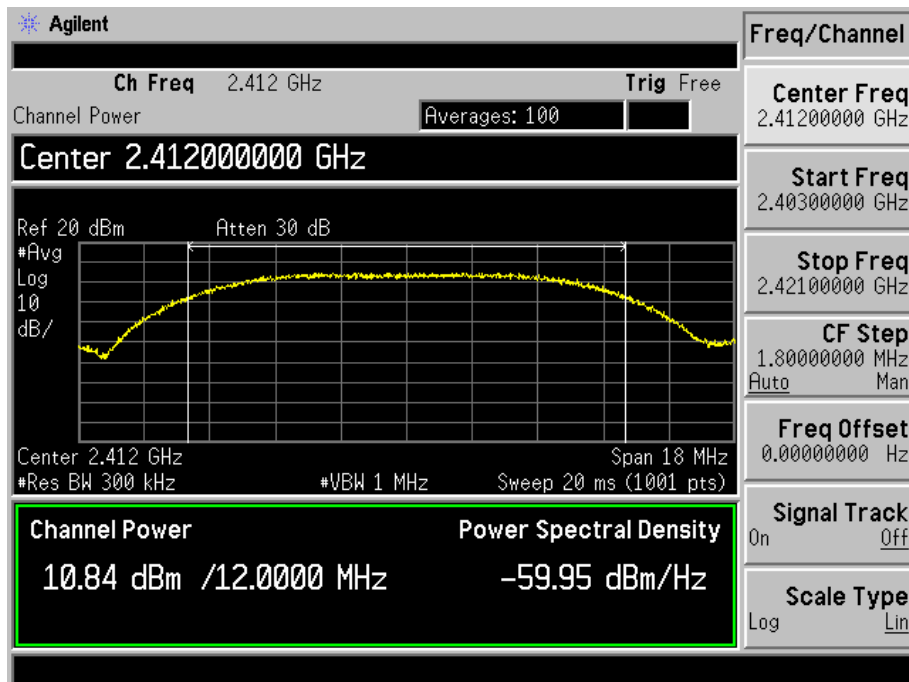
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.4 Summary of Test Results/Plots

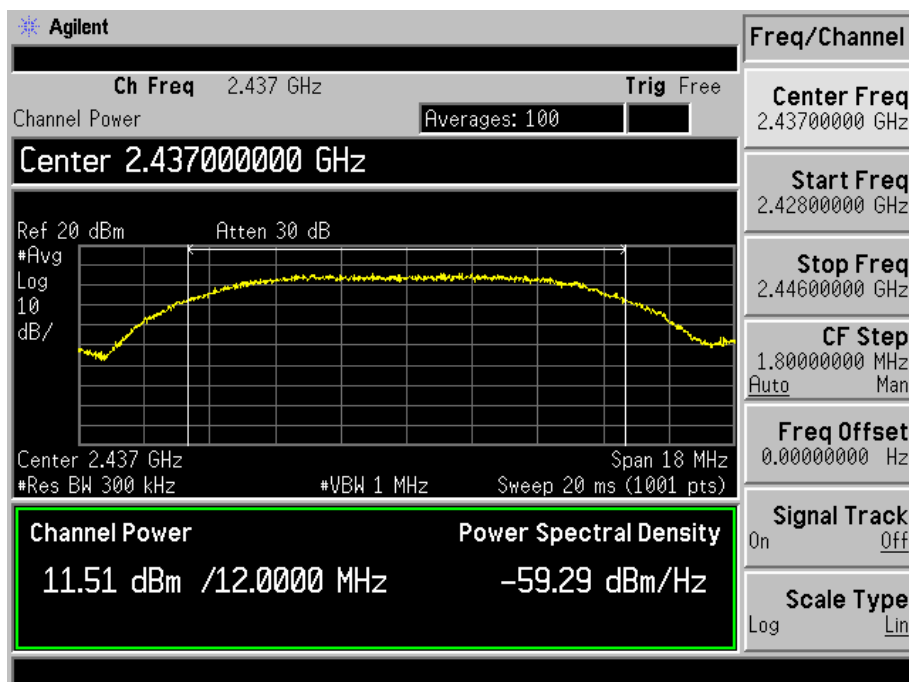
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	10.84	12.13	1000
	2437	11.51	14.16	1000
	2462	11.99	15.81	1000
802.11g_54Mbps	2412	6.91	4.91	1000
	2437	7.75	5.96	1000
	2462	8.09	6.44	1000
802.11n HT20_MCS7	2412	3.68	2.33	1000
	2437	4.52	2.83	1000
	2462	4.72	2.96	1000

Please refer to the following test plots:

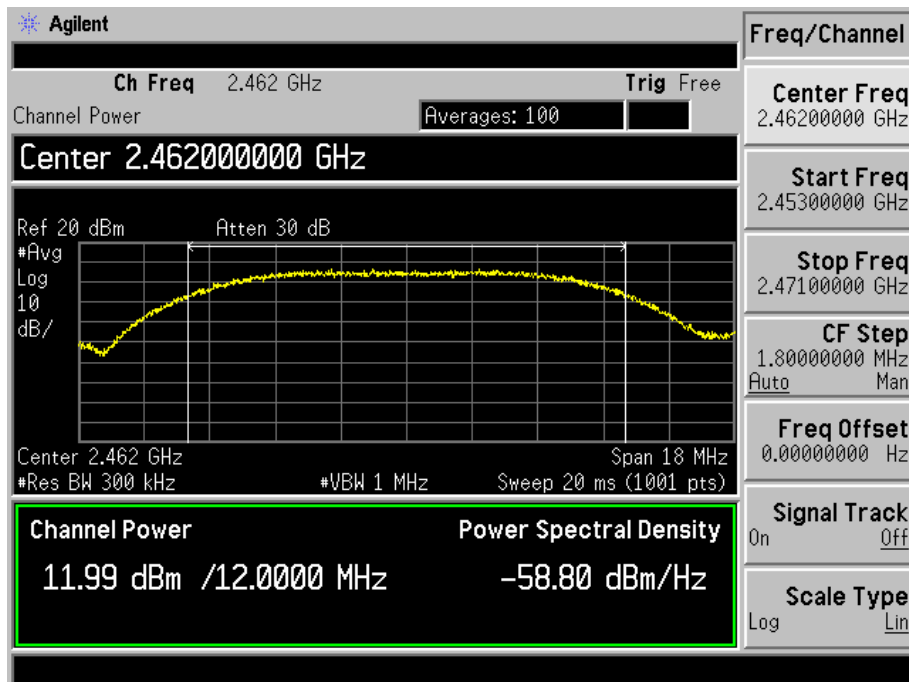
802.11-11Mbps-Low Channel



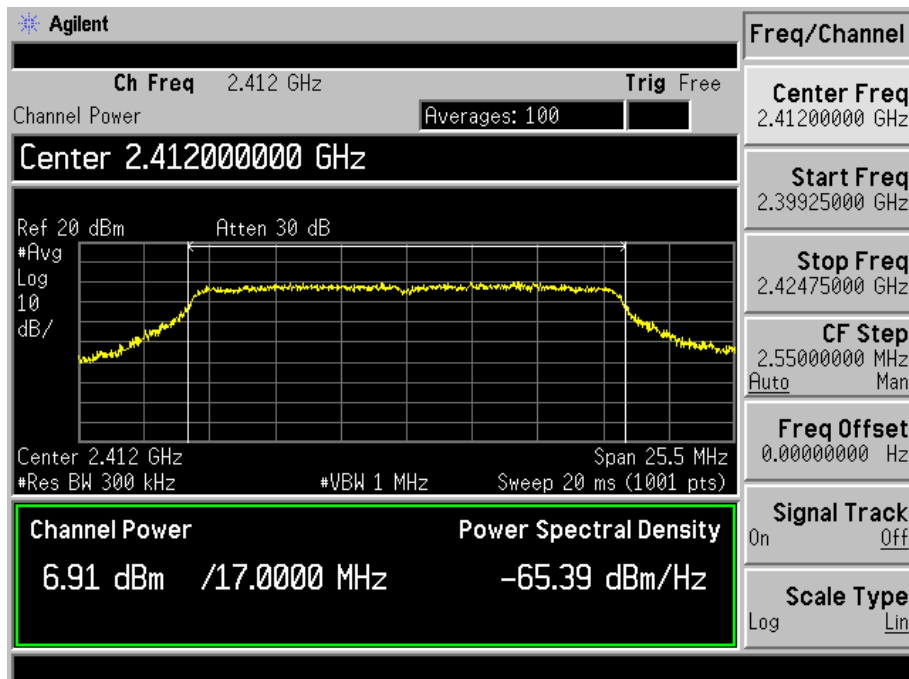
802.11b -11Mbps-Middle Channel



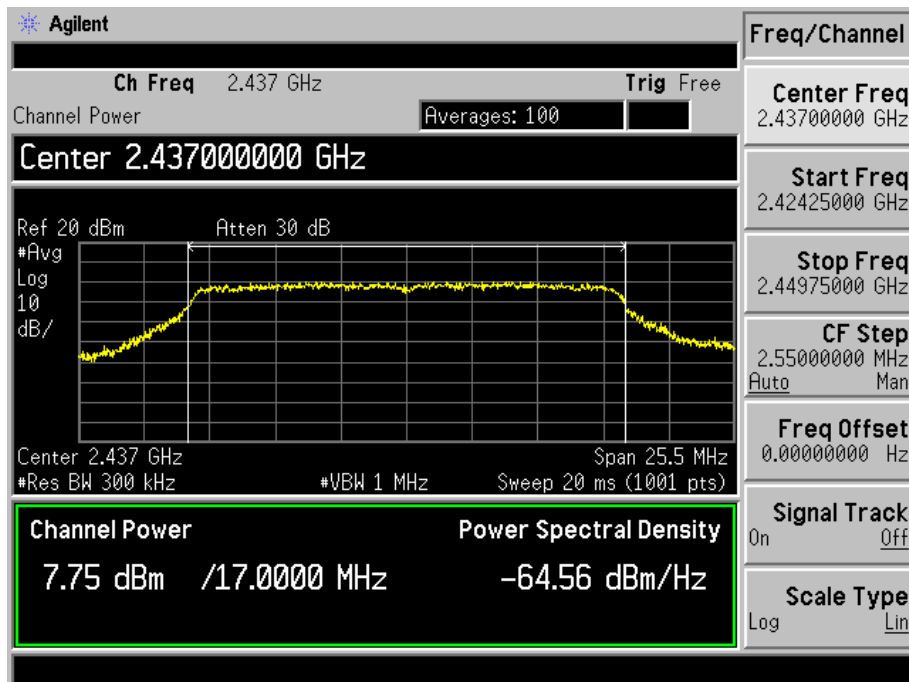
802.11b -11Mbps-High Channel



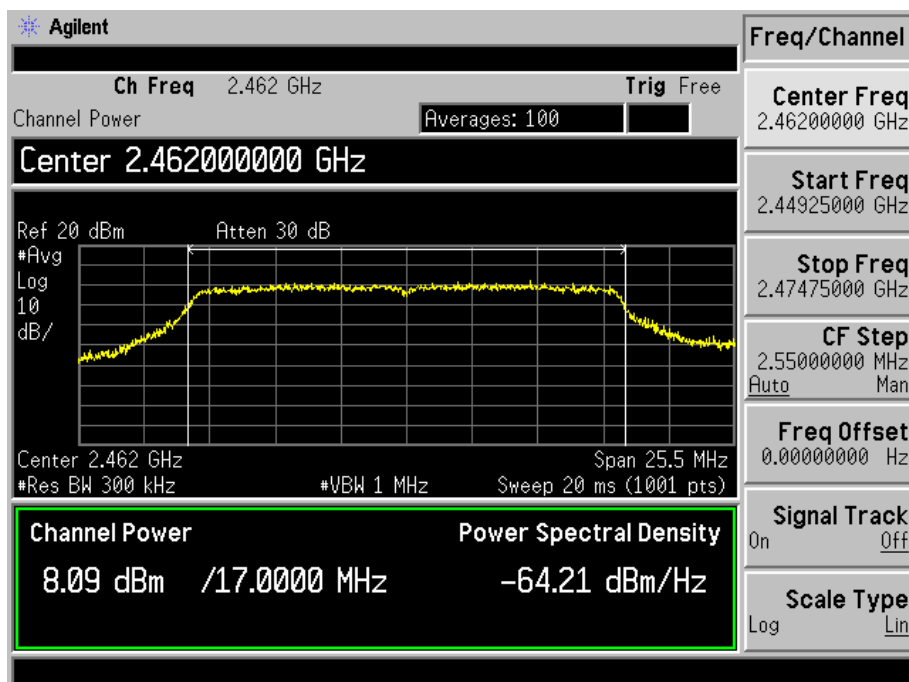
802.11g-54Mbps-Low Channel



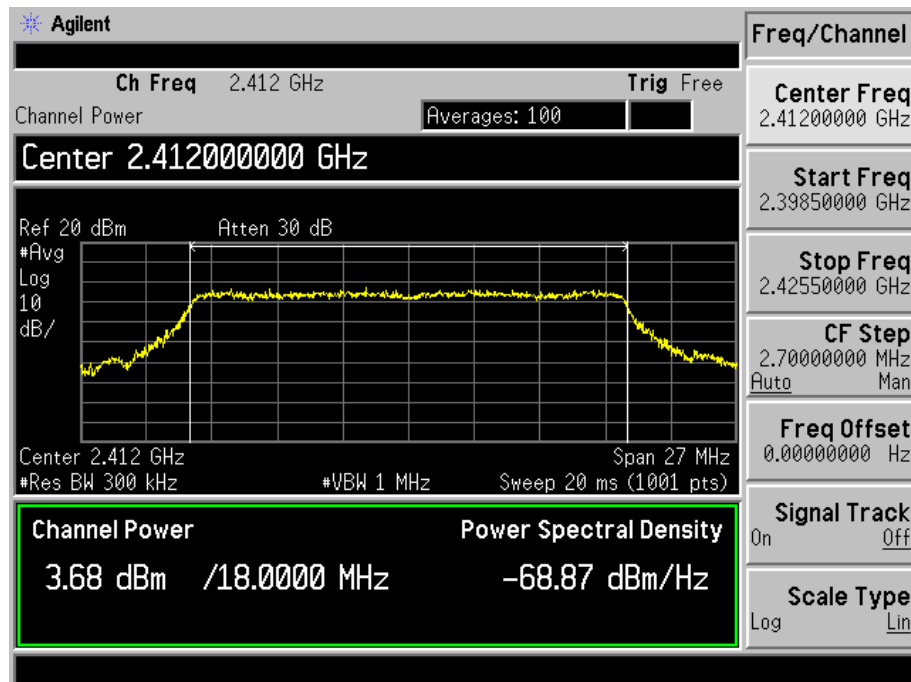
802.11g-54Mbps-Middle Channel



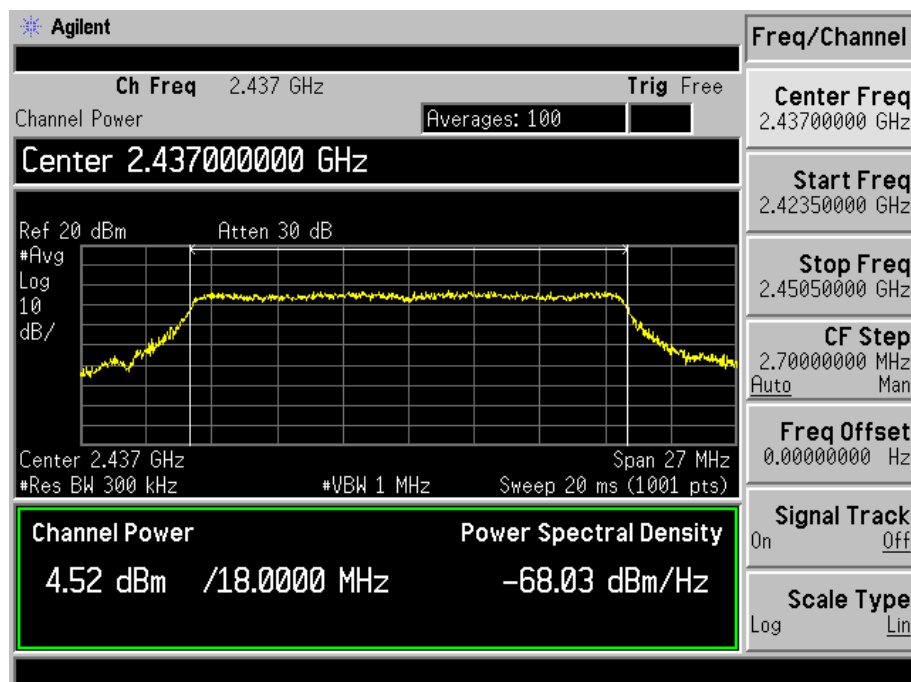
802.11g-54Mbps-High Channel



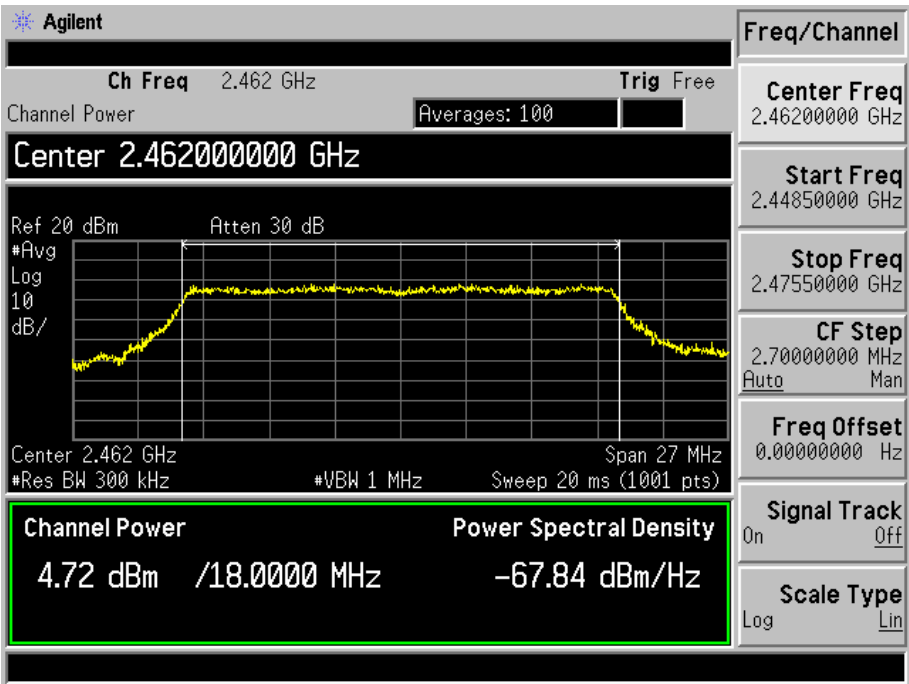
802.11n-HT20-MCS7-Low Channel



802.11n-HT20-MCS7-Middle Channel



802.11n-HT20-MCS7-High Channel



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).

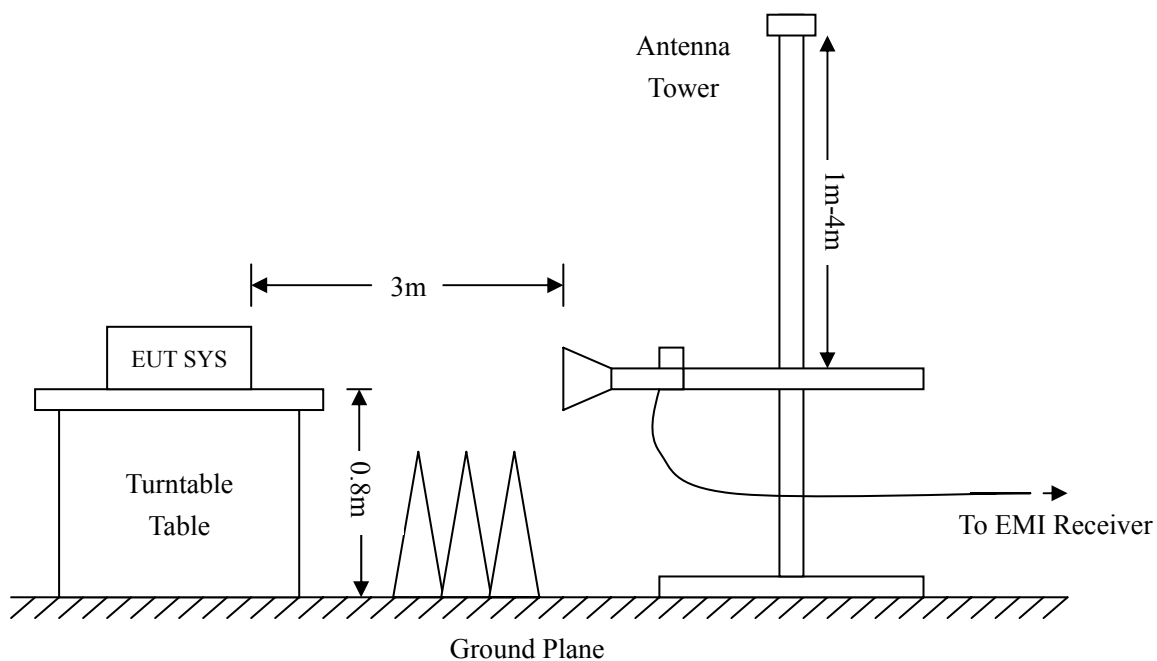
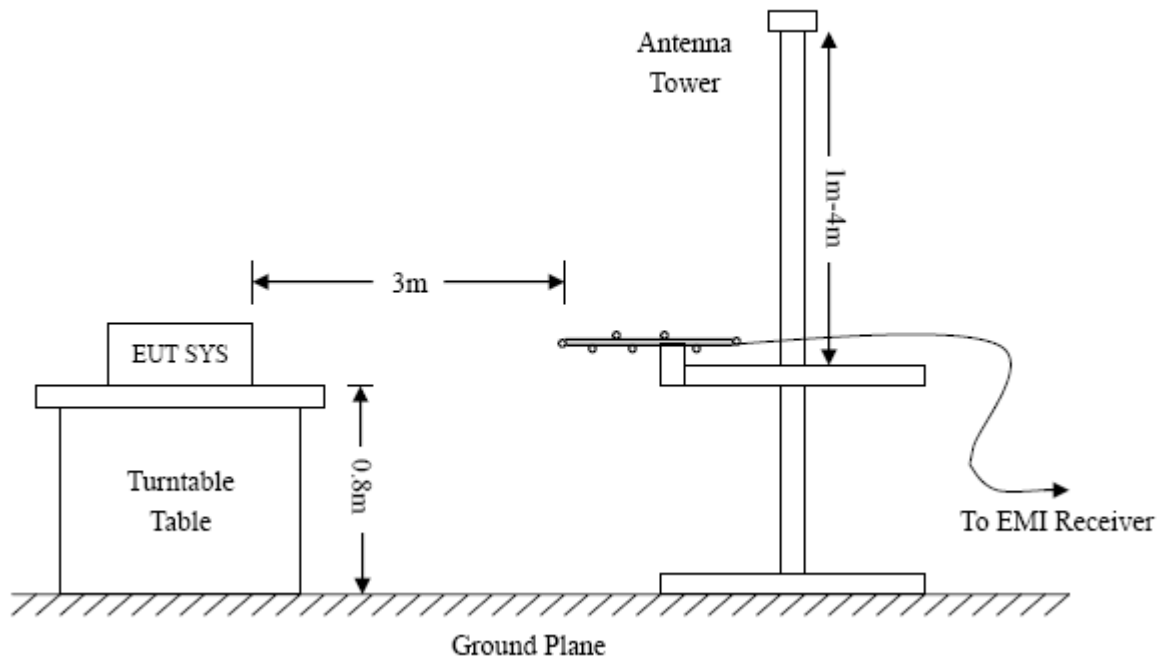
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2009 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 -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

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

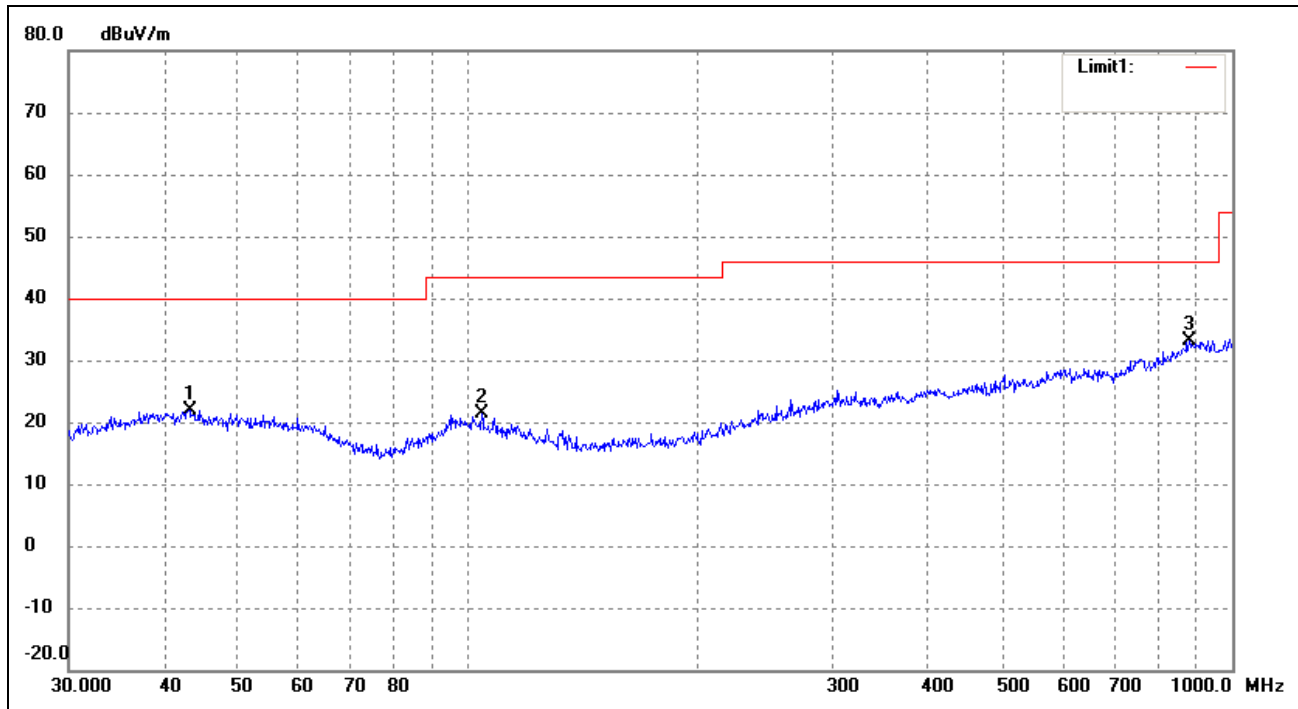
8.5 Environmental Conditions

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

8.6 Summary of Test Results/Plots

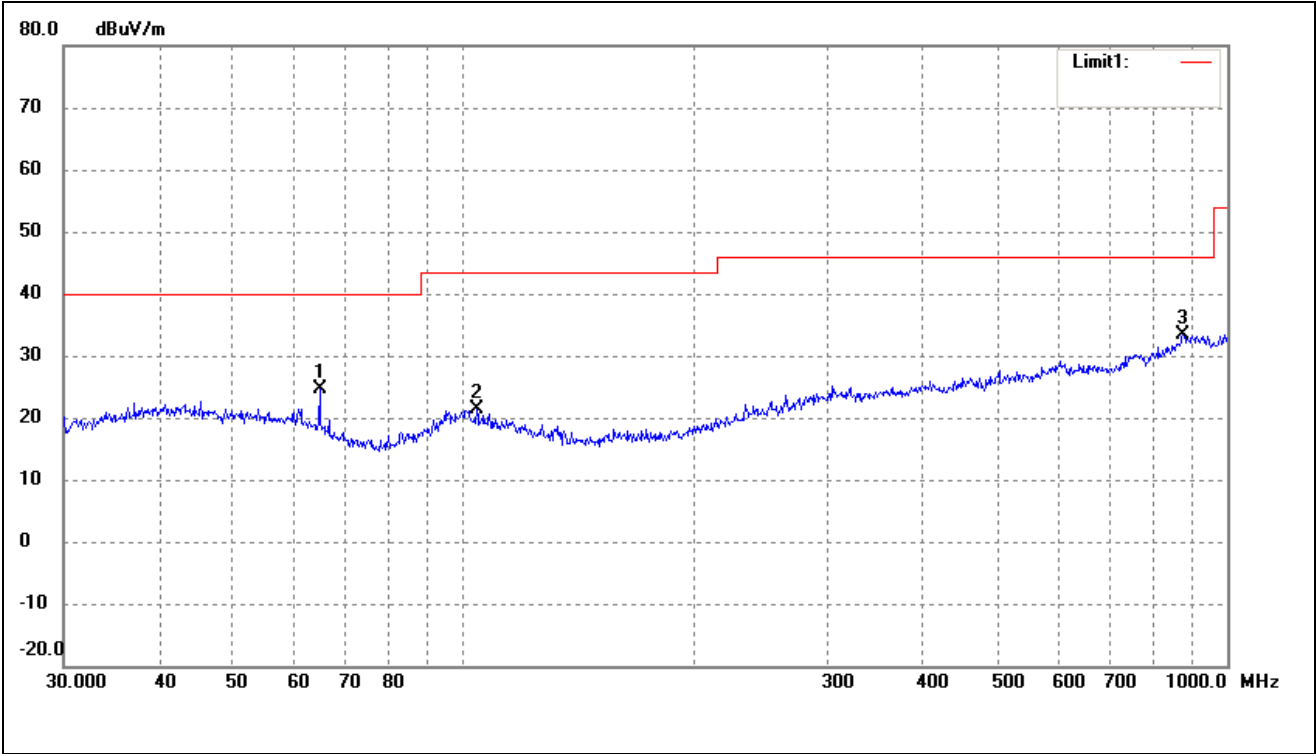
According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

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

Plot of Radiated Emissions Test Data (30MHz to 1GHz)*EUT:* 3G Mobile phone*Tested Model:* LIFE*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	43.2017	14.94	6.93	21.87	40.00	-18.13	0	100	QP
2	104.1701	15.58	5.69	21.27	43.50	-22.23	180	100	QP
3	878.3214	16.46	16.78	33.24	46.00	-12.76	0	100	QP

Test Specification: Vertical

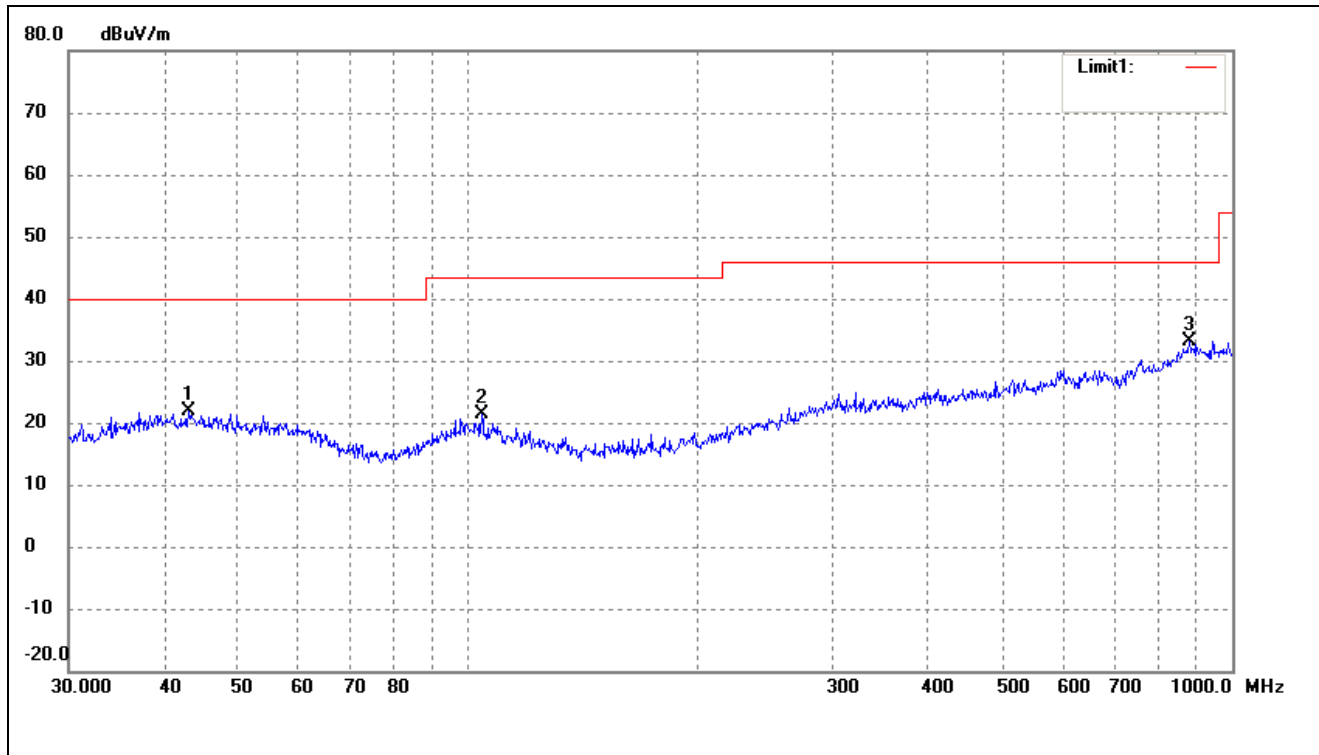


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	64.8865	20.72	3.82	24.54	40.00	-15.46	0	100	QP
2	104.1701	15.58	5.69	21.27	43.50	-22.23	270	100	QP
3	875.2470	16.57	16.70	33.27	46.00	-12.73	360	100	QP

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

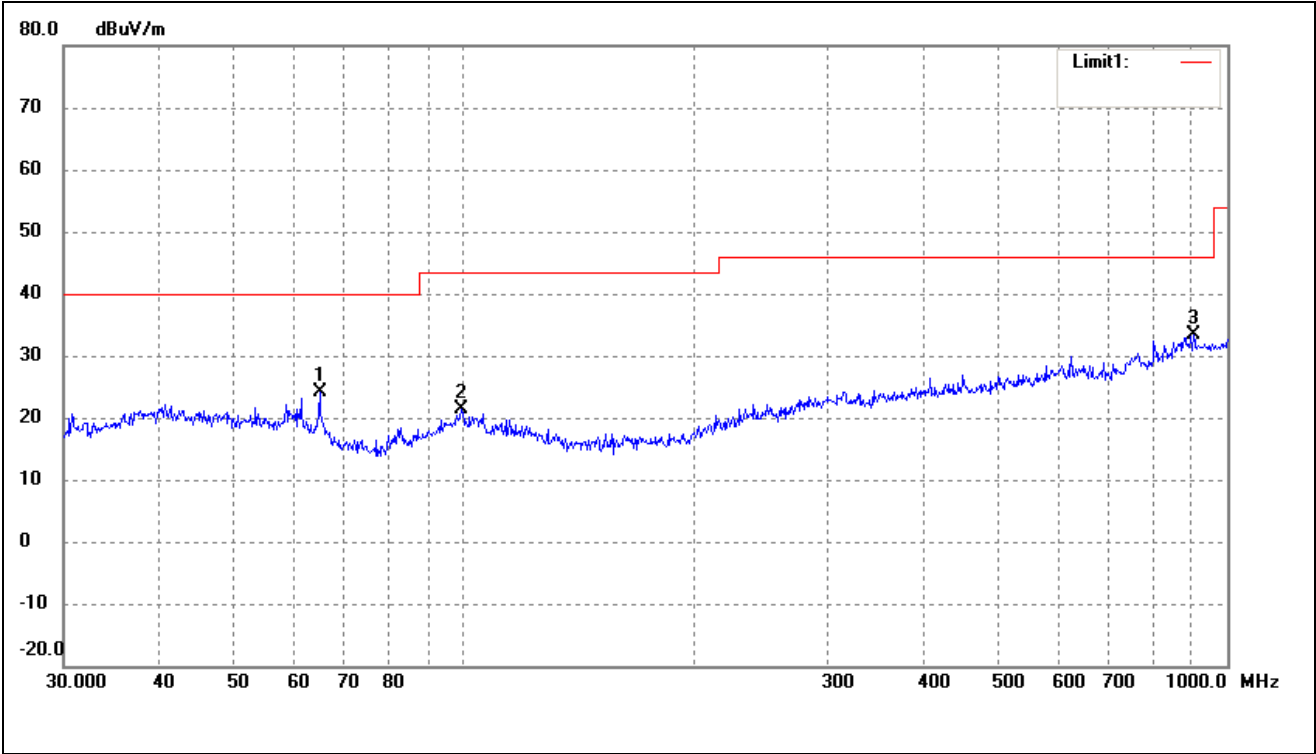
Comment: Battery: DC3.7V

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	43.0505	14.89	6.94	21.83	40.00	-18.17	180	100	QP
2	104.1701	15.58	5.69	21.27	43.50	-22.23	0	100	QP
3	878.3214	16.46	16.78	33.24	46.00	-12.76	160	100	QP

Test Specification: Vertical

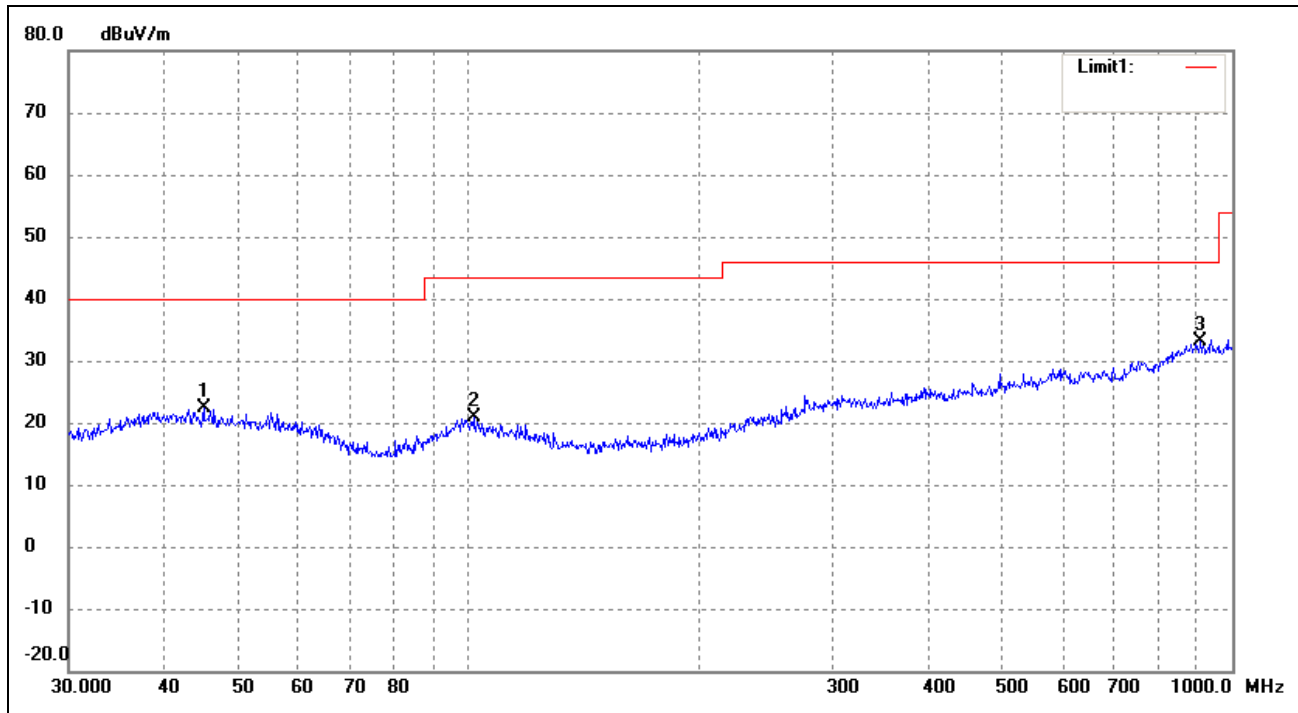


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	64.8865	20.25	3.82	24.07	40.00	-15.93	270	100	QP
2	99.5281	15.46	6.01	21.47	43.50	-22.03	360	100	QP
3	903.3094	16.55	16.79	33.34	46.00	-12.66	360	100	QP

Operating Condition: 802.11b Transmitting High Channel-2462MHz

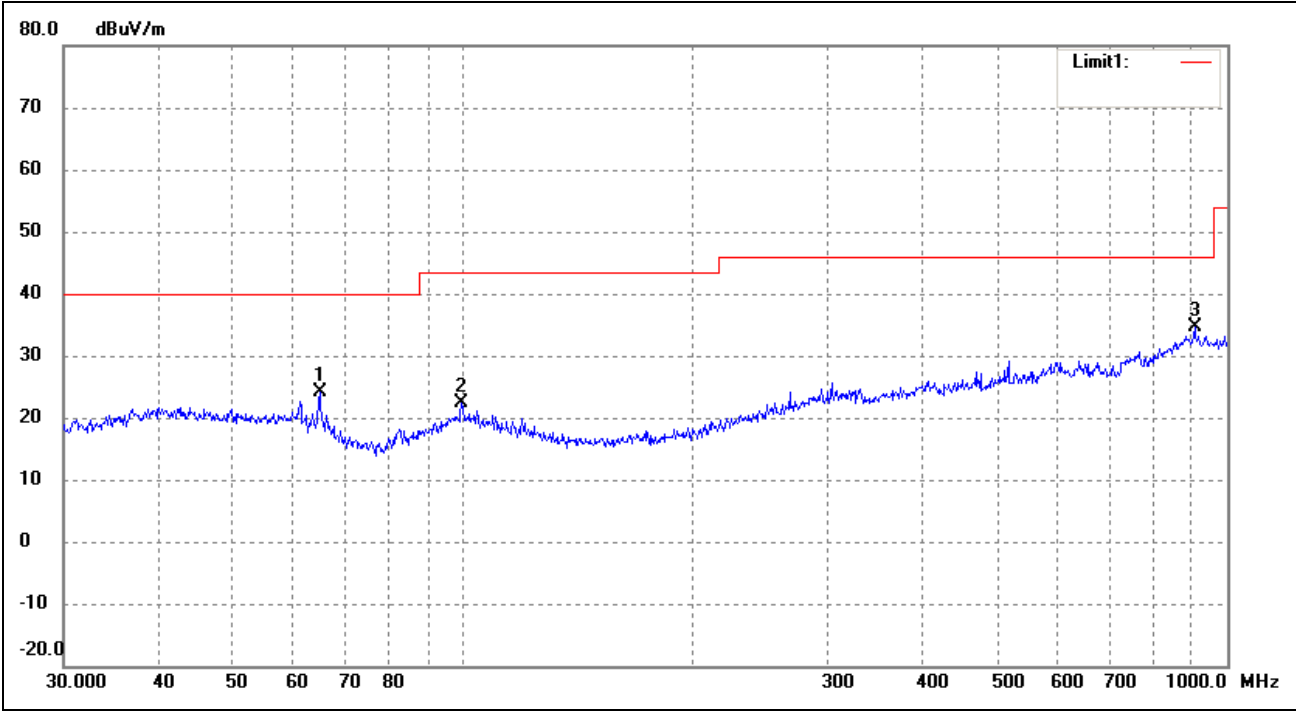
Comment: Battery: DC3.7V

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	45.0583	15.60	6.75	22.35	40.00	-17.65	120	100	QP
2	101.6443	14.91	5.95	20.86	43.50	-22.64	250	100	QP
3	909.6667	16.53	16.68	33.21	46.00	-12.79	360	100	QP

Test Specification: Vertical

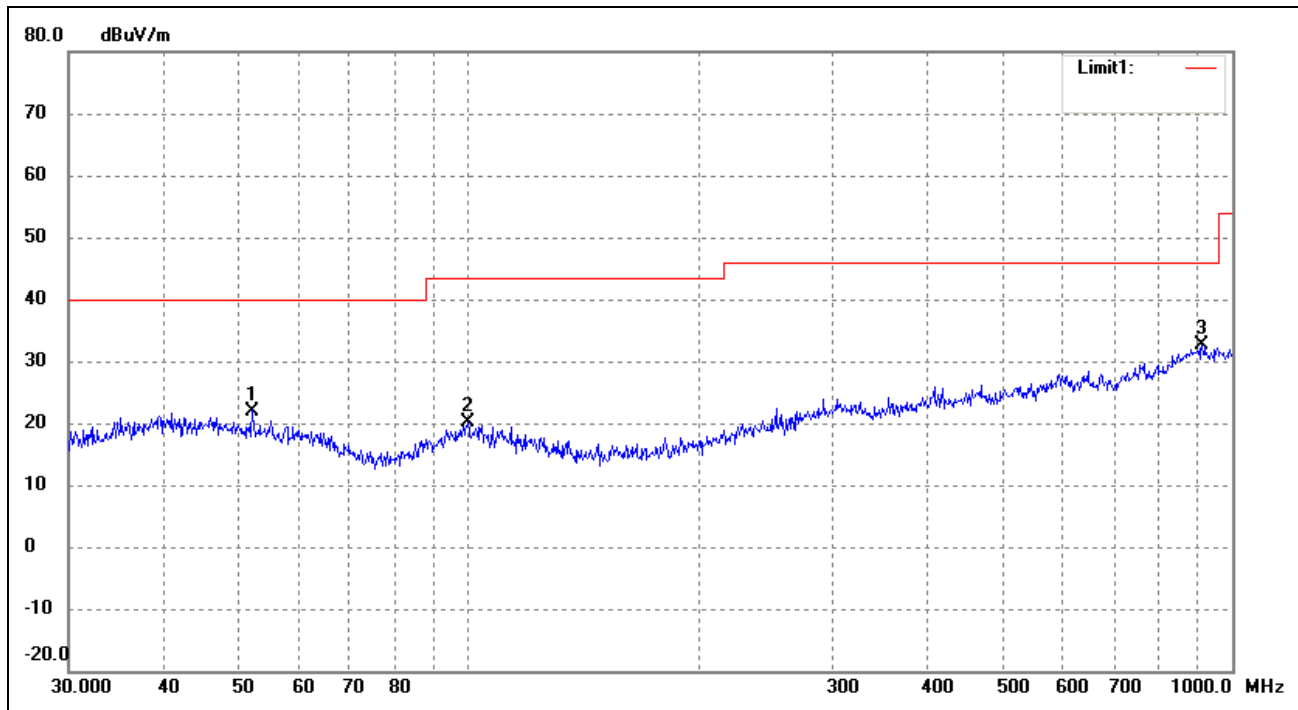


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	64.8865	20.37	3.82	24.19	40.00	-15.81	360	100	QP
2	99.5281	16.47	6.01	22.48	43.50	-21.02	200	100	QP
3	906.4824	17.99	16.73	34.72	46.00	-11.28	120	100	QP

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

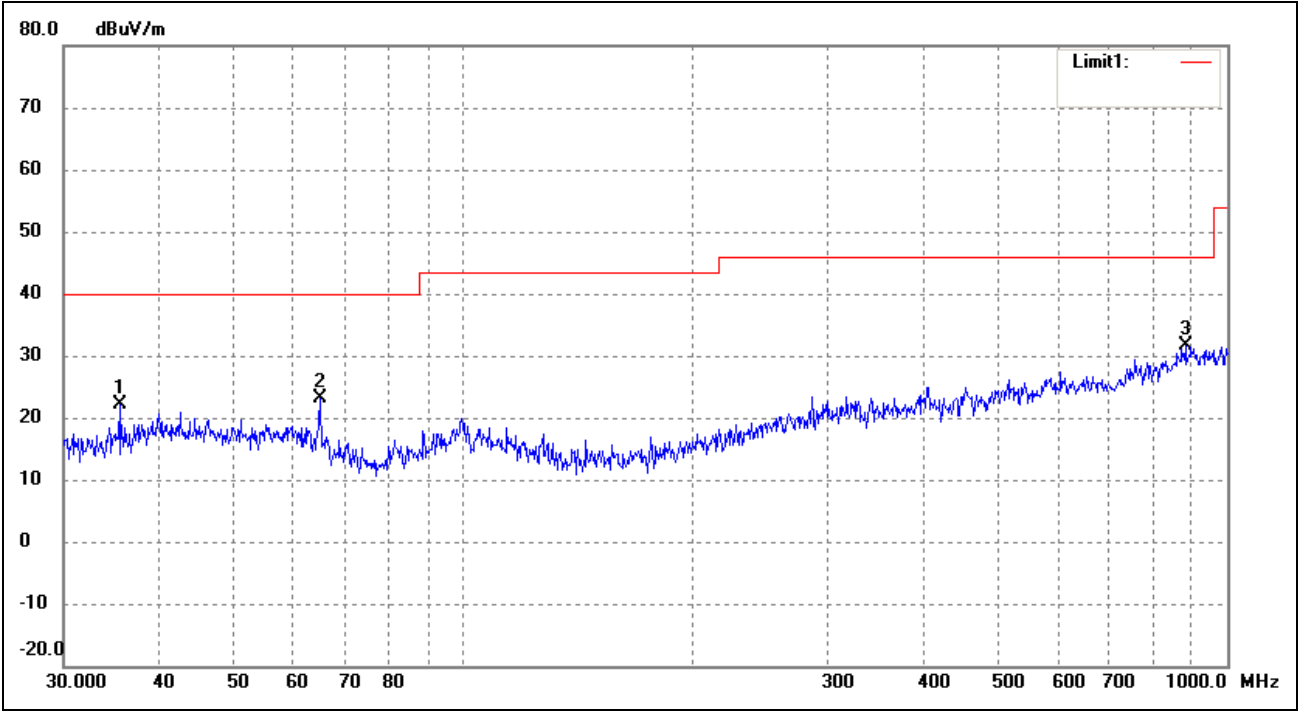
EUT: 3G Mobile phone
 Tested Model: LIFE
 Operating Condition: 802.11g Transmitting Low Channel-2412MHz
 Comment: Battery: DC3.7V

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	52.2079	15.93	6.07	22.00	40.00	-18.00	170	100	QP
2	99.8777	13.91	6.10	20.01	43.50	-23.49	20	100	QP
3	912.8620	16.01	16.62	32.63	46.00	-13.37	320	100	QP

Test Specification: Vertical

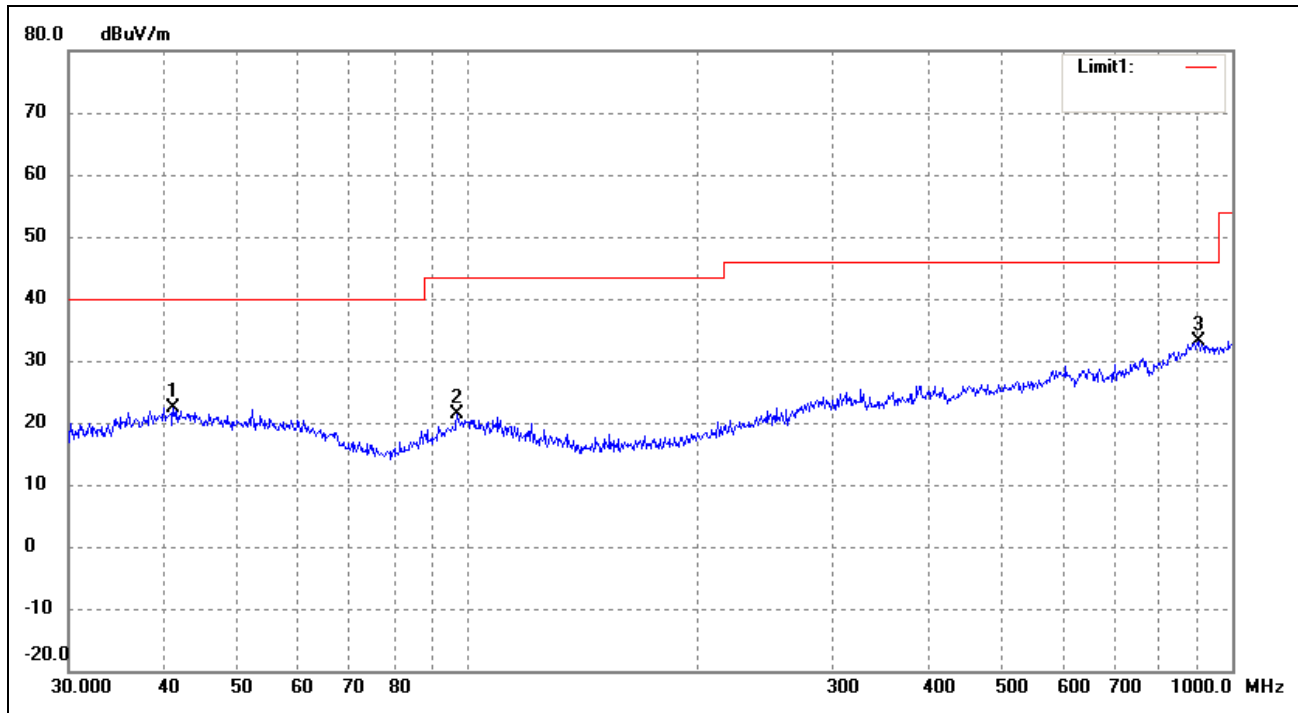


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	35.4993	13.61	8.47	22.08	40.00	-17.92	270	100	QP
2	64.8865	19.32	3.82	23.14	40.00	-16.86	90	100	QP
3	881.4067	14.78	16.82	31.60	46.00	-14.40	360	100	QP

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

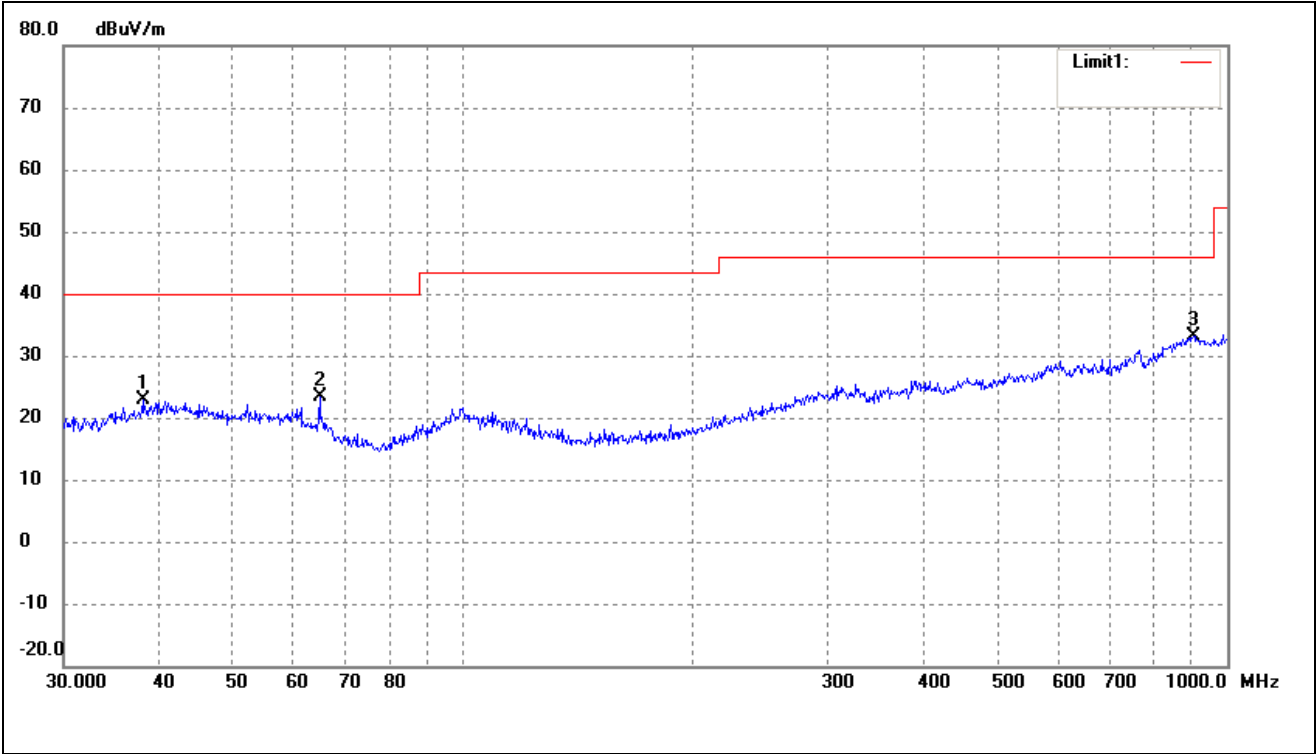
Comment: Battery: DC3.7V

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	41.1320	15.30	7.14	22.44	40.00	-17.56	270	100	QP
2	96.7749	16.05	5.32	21.37	43.50	-22.13	160	100	QP
3	903.3094	16.32	16.79	33.11	46.00	-12.89	228	200	QP

Test Specification: Vertical

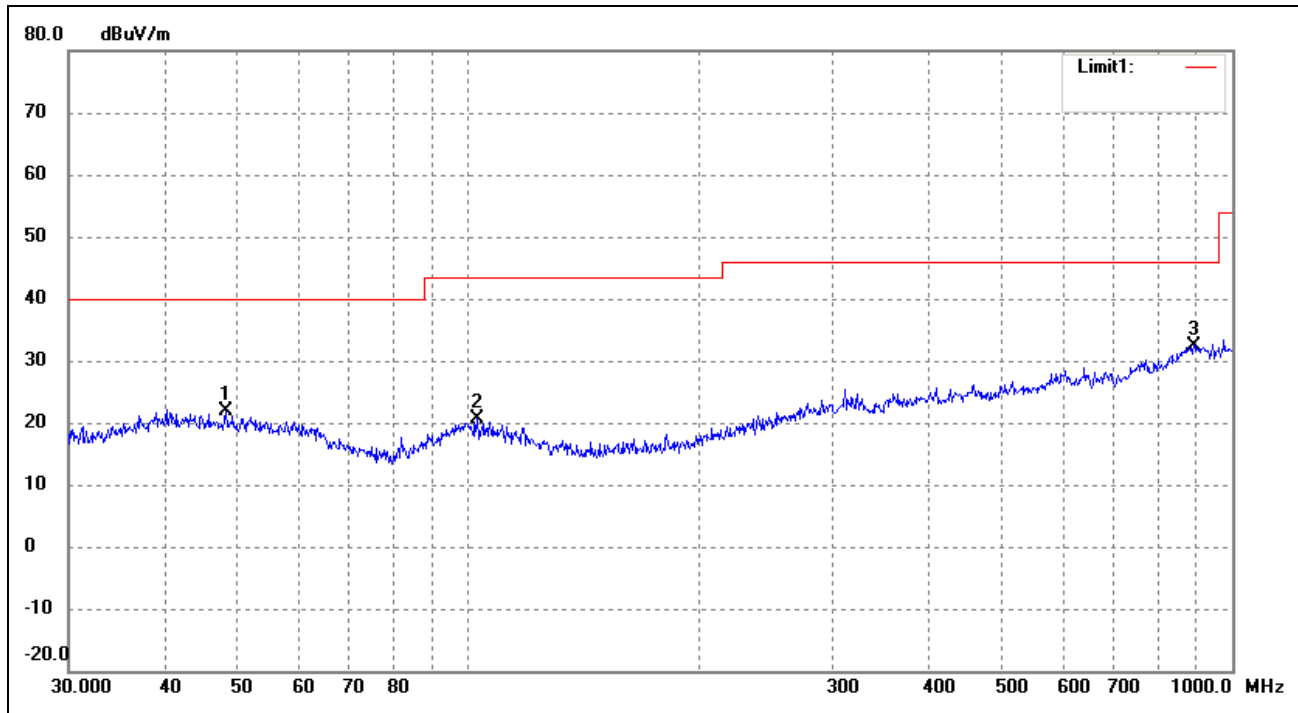


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	38.0783	14.02	8.92	22.94	40.00	-17.06	360	100	QP
2	64.8865	19.45	3.82	23.27	40.00	-16.73	120	100	QP
3	903.3094	16.32	16.79	33.11	46.00	-12.89	270	100	QP

Operating Condition: 802.11g Transmitting High Channel-2462MHz

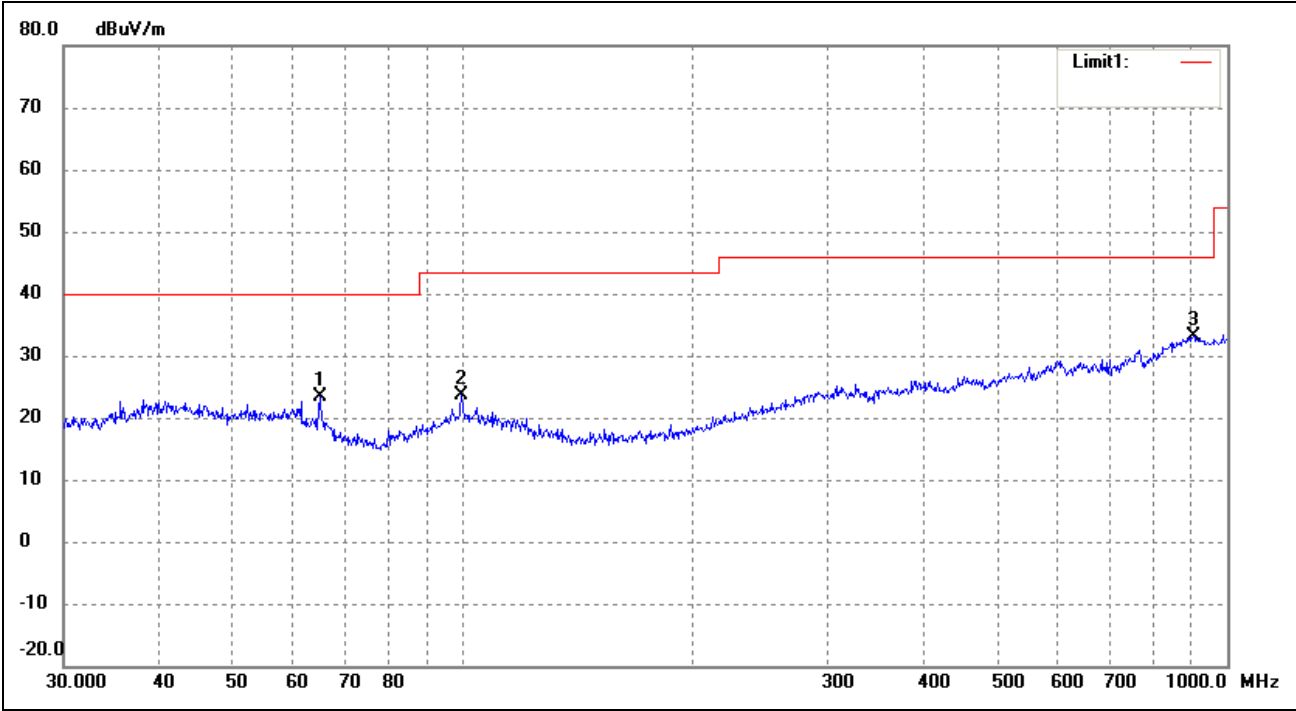
Comment: Battery: DC3.7V

Test Specification: Horizontal

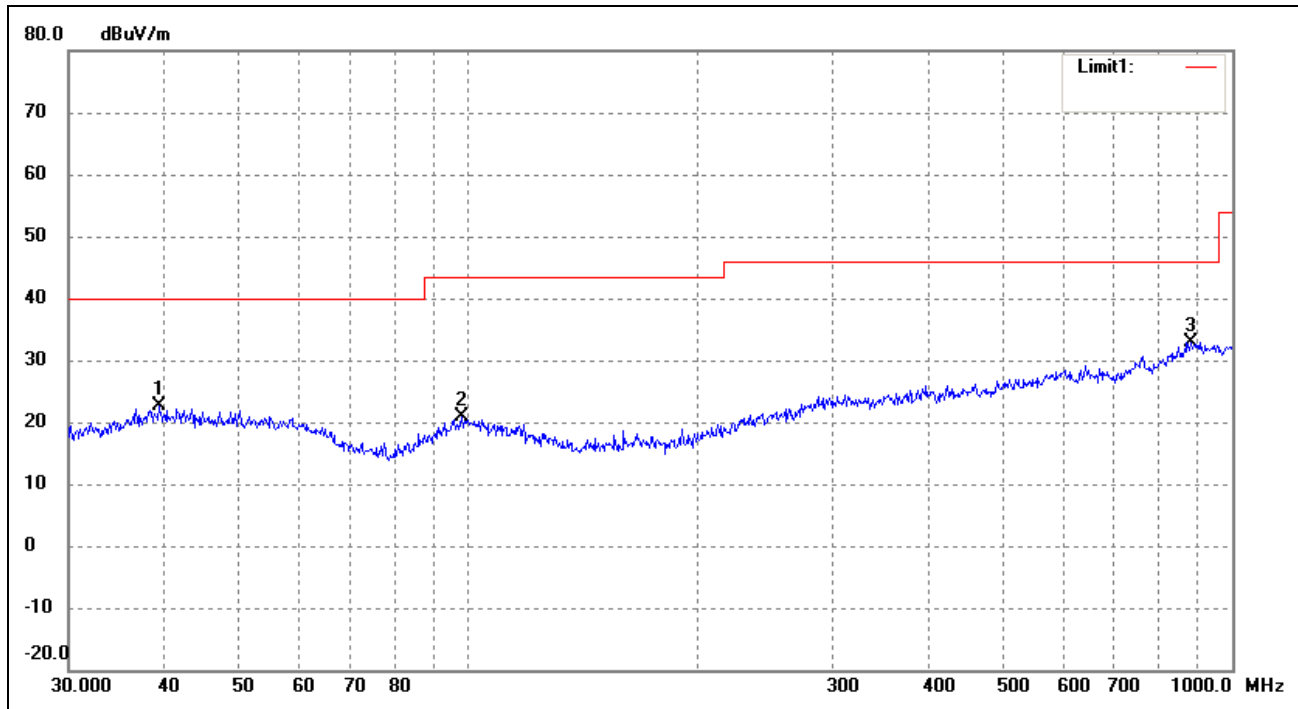


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	48.1626	15.33	6.44	21.77	40.00	-18.23	270	100	QP
2	102.7192	14.82	5.85	20.67	43.50	-22.83	150	100	QP
3	890.7278	15.66	16.84	32.50	46.00	-13.50	360	100	QP

Test Specification: Vertical

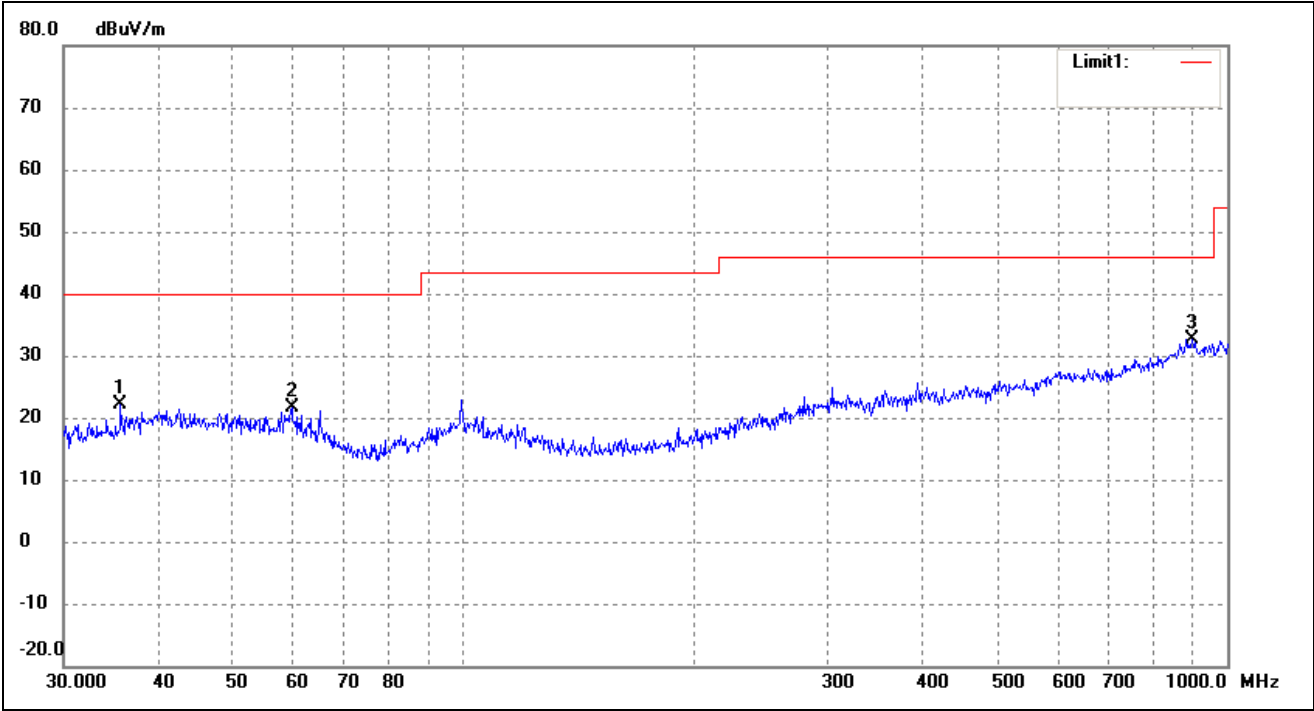


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	64.8865	19.45	3.82	23.27	40.00	-16.73	360	100	QP
2	99.5281	17.66	6.01	23.67	43.50	-19.83	180	100	QP
3	903.3094	16.32	16.79	33.11	46.00	-12.89	120	100	QP

Plot of Radiated Emissions Test Data (30MHz to 1GHz)*EUT:* 3G Mobile phone*Tested Model:* LIFE*Operating Condition:* 802.11n-HT20 Transmitting Low Channel-2412MHz*Comment:* Battery: DC3.7V*Test Specification:* Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	39.4372	15.43	7.10	22.53	40.00	-17.47	260	100	QP
2	98.1419	15.26	5.67	20.93	43.50	-22.57	120	200	QP
3	884.5029	16.12	16.83	32.95	46.00	-13.05	289	200	QP

Test Specification: Vertical

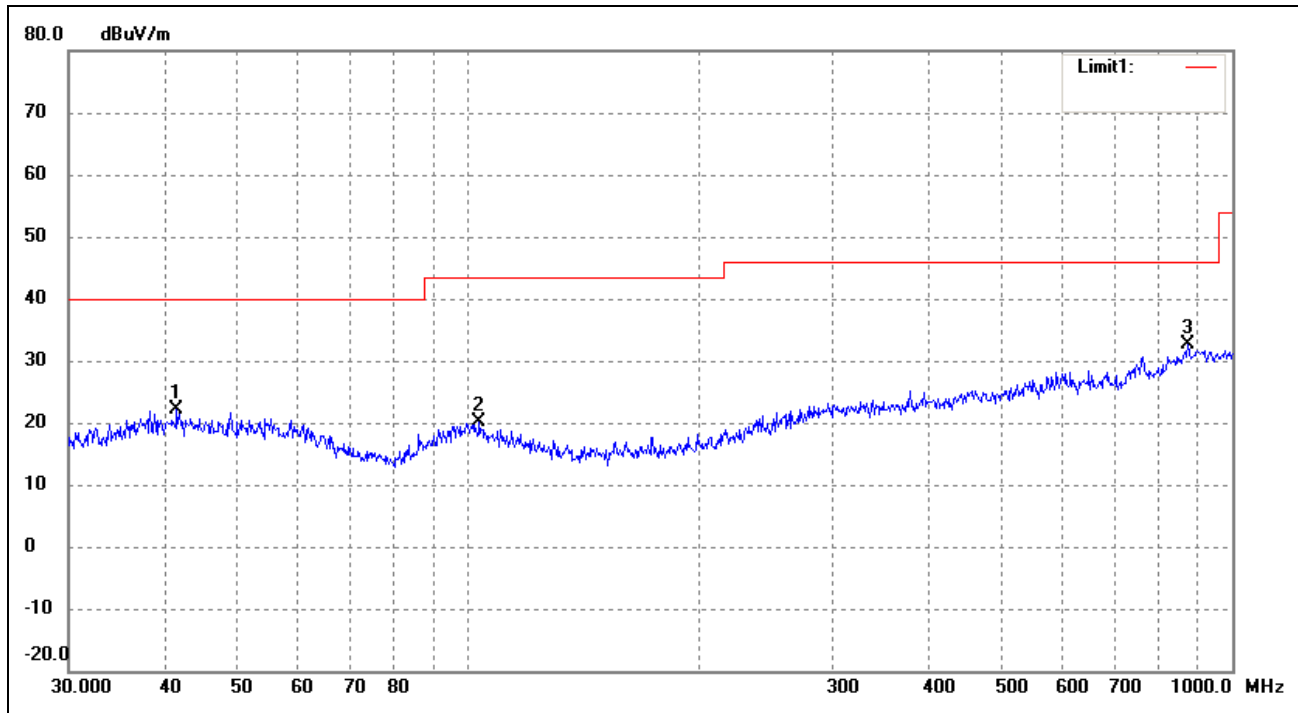


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	35.6240	13.62	8.49	22.11	40.00	-17.89	130	100	QP
2	59.6493	16.24	5.41	21.65	40.00	-18.35	120	100	QP
3	900.1474	15.73	16.85	32.58	46.00	-13.42	360	100	QP

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

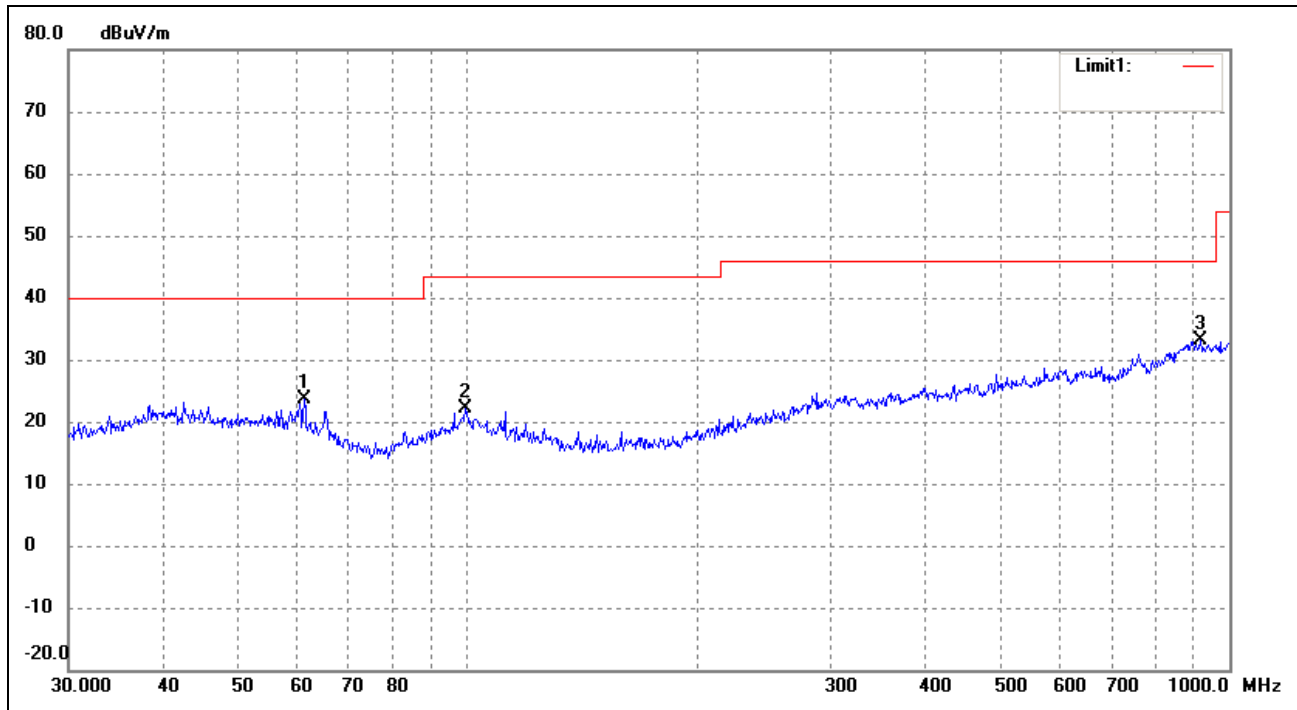
Comment: Battery: DC3.7V

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	41.5670	14.94	7.09	22.03	40.00	-17.97	274	100	QP
2	103.4421	14.40	5.77	20.17	43.50	-23.33	130	100	QP
3	875.2470	15.96	16.70	32.66	46.00	-13.34	120	100	QP

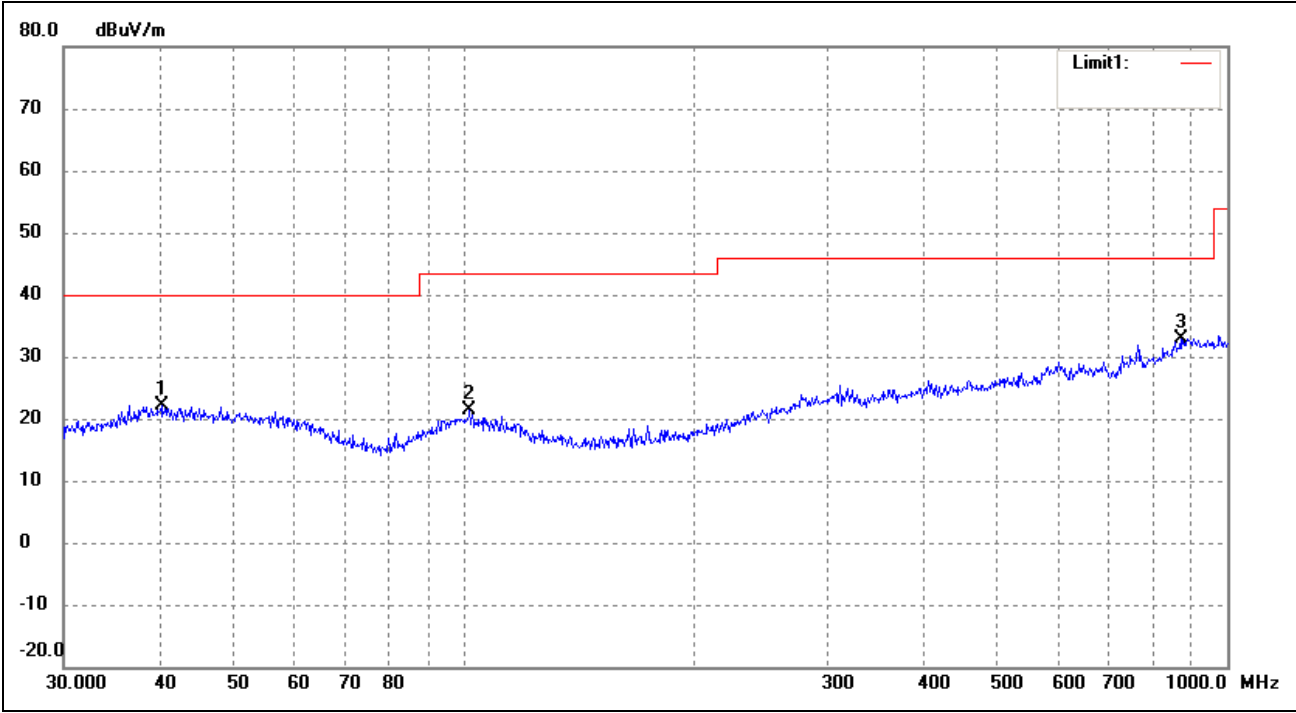
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	61.1316	18.53	5.02	23.55	40.00	-16.45	360	100	QP
2	99.5281	16.16	6.01	22.17	43.50	-21.33	110	100	QP
3	916.0687	16.62	16.56	33.18	46.00	-12.82	120	100	QP

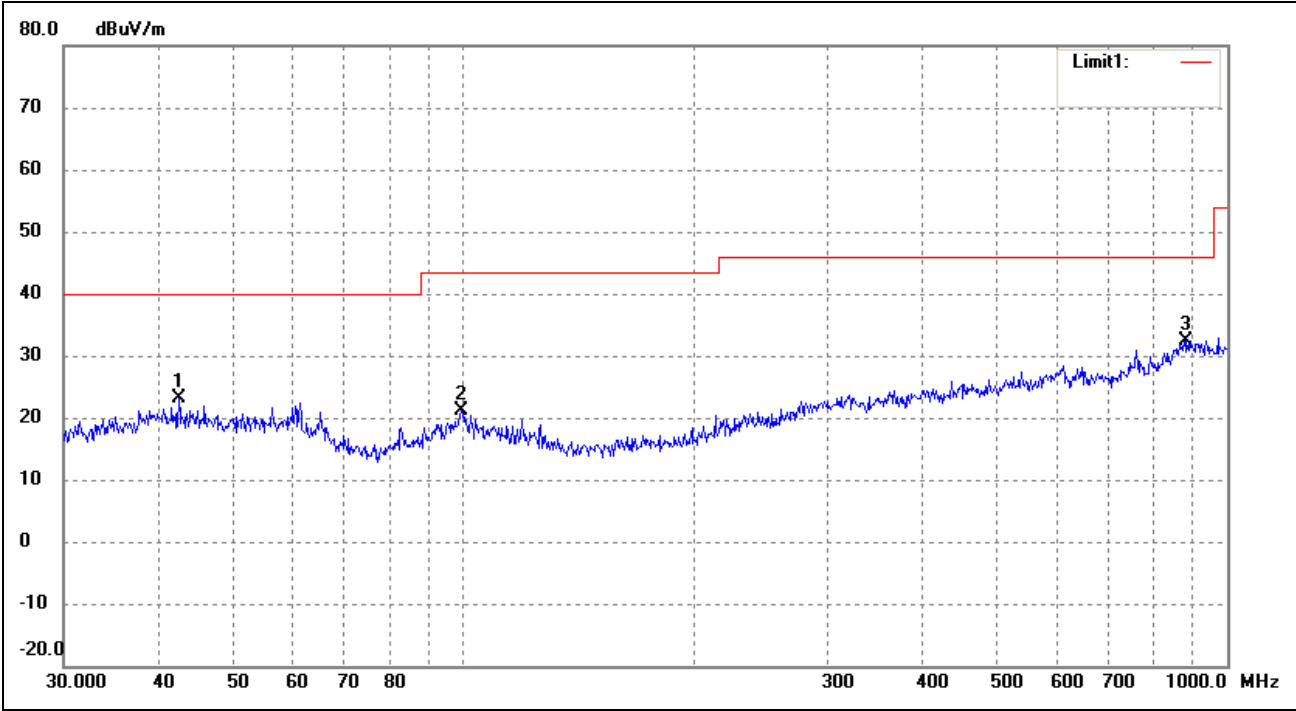
Operating Condition: 802.11n-HT20 Transmitting High Channel-2462MHz
Comment: Battery: DC3.7V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	40.2757	14.89	7.22	22.11	40.00	-17.89	360	100	QP
2	102.0014	15.56	5.91	21.47	43.50	-22.03	138	100	QP
3	869.1302	16.36	16.54	32.90	46.00	-13.10	180	200	QP

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	42.4508	14.66	8.51	23.17	40.00	-16.83	270	100	QP
2	99.5281	15.16	6.01	21.17	43.50	-22.33	120	100	QP
3	884.5029	15.57	16.83	32.40	46.00	-13.60	360	100	QP

*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	57.73	-3.87	53.86	74.00	-20.14	H	Peak
4824.000	42.67	-3.87	38.80	54.00	-15.20	H	AV
7236.000	49.39	1.14	50.53	74.00	-23.47	H	Peak
7236.000	36.57	1.19	37.76	54.00	-16.24	H	AV
4824.000	58.84	-3.86	54.98	74.00	-19.02	V	Peak
4824.000	45.31	-3.86	41.45	54.00	-12.55	V	AV
7236.000	51.34	1.10	52.44	74.00	-21.56	V	Peak
7236.000	37.90	1.10	39.00	54.00	-15.00	V	AV
Middle Channel-2437MHz							
4874.000	56.14	-3.74	52.40	74.00	-21.60	H	Peak
4874.000	44.46	-3.74	40.72	54.00	-13.28	H	AV
7311.000	50.72	1.47	52.19	74.00	-21.81	H	Peak
7311.000	35.08	1.47	36.55	54.00	-17.45	H	AV
4874.000	56.90	-3.74	53.16	74.00	-20.84	V	Peak
4874.000	44.60	-3.74	40.86	54.00	-13.14	V	AV
7311.000	50.47	1.47	51.94	74.00	-22.06	V	Peak
7311.000	37.18	1.47	38.65	54.00	-15.35	V	AV
High Channel-2462MHz							
4924.000	55.98	-3.59	52.39	74.00	-21.61	H	Peak
4924.000	45.31	-3.59	41.72	54.00	-12.28	H	AV
7386.000	50.39	1.79	52.18	74.00	-21.82	H	Peak
7386.000	38.18	1.79	39.97	54.00	-14.03	H	AV
4924.000	57.78	-3.59	54.19	74.00	-19.81	V	Peak
4924.000	43.56	-3.59	39.97	54.00	-14.03	V	AV
7386.000	50.63	1.79	52.42	74.00	-21.58	V	Peak
7386.000	37.44	1.79	39.23	54.00	-14.77	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	57.95	-3.87	54.08	74.00	-19.92	H	Peak
4824.000	43.89	-3.87	40.02	54.00	-13.98	H	AV
7236.000	48.51	1.14	49.65	74.00	-24.35	H	Peak
7236.000	36.96	1.19	38.15	54.00	-15.85	H	AV
4824.000	57.07	-3.86	53.21	74.00	-20.79	V	Peak
4824.000	44.17	-3.86	40.31	54.00	-13.69	V	AV
7236.000	50.12	1.10	51.22	74.00	-22.78	V	Peak
7236.000	37.31	1.10	38.41	54.00	-15.59	V	AV
Middle Channel-2437MHz							
4874.000	56.07	-3.74	52.33	74.00	-21.67	H	Peak
4874.000	40.82	-3.74	37.08	54.00	-16.92	H	AV
7311.000	48.28	1.47	49.75	74.00	-24.25	H	Peak
7311.000	36.96	1.47	38.43	54.00	-15.57	H	AV
4874.000	59.29	-3.74	55.55	74.00	-18.45	V	Peak
4874.000	42.48	-3.74	38.74	54.00	-15.26	V	AV
7311.000	51.09	1.47	52.56	74.00	-21.44	V	Peak
7311.000	39.42	1.47	40.89	54.00	-13.11	V	AV
High Channel-2462MHz							
4924.000	57.9	-3.59	54.31	74.00	-19.69	H	Peak
4924.000	43.84	-3.59	40.25	54.00	-13.75	H	AV
7386.000	48.46	1.79	50.25	74.00	-23.75	H	Peak
7386.000	36.91	1.79	38.70	54.00	-15.30	H	AV
4924.000	57.02	-3.59	53.43	74.00	-20.57	V	Peak
4924.000	44.12	-3.59	40.53	54.00	-13.47	V	AV
7386.000	50.07	1.79	51.86	74.00	-22.14	V	Peak
7386.000	37.26	1.79	39.05	54.00	-14.95	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	57.63	-3.87	53.76	74.00	-20.24	H	Peak
4824.000	44.36	-3.87	40.49	54.00	-13.51	H	AV
7236.000	50.55	1.14	51.69	74.00	-22.31	H	Peak
7236.000	36.53	1.19	37.72	54.00	-16.28	H	AV
4824.000	58.12	-3.86	54.26	74.00	-19.74	V	Peak
4824.000	44.78	-3.86	40.92	54.00	-13.08	V	AV
7236.000	51.35	1.10	52.45	74.00	-21.55	V	Peak
7236.000	37.67	1.10	38.77	54.00	-15.23	V	AV
Middle Channel-2437MHz							
4874.000	57.08	-3.74	53.34	74.00	-20.66	H	Peak
4874.000	45.26	-3.74	41.52	54.00	-12.48	H	AV
7311.000	49.36	1.47	50.83	74.00	-23.17	H	Peak
7311.000	37.25	1.47	38.72	54.00	-15.28	H	AV
4874.000	59.05	-3.74	55.31	74.00	-18.69	V	Peak
4874.000	45.84	-3.74	42.10	54.00	-11.90	V	AV
7311.000	50.38	1.47	51.85	74.00	-22.15	V	Peak
7311.000	37.31	1.47	38.78	54.00	-15.22	V	AV
High Channel-2462MHz							
4924.000	56.08	-3.59	52.49	74.00	-21.51	H	Peak
4924.000	42.83	-3.59	39.24	54.00	-14.76	H	AV
7386.000	49.26	1.79	51.05	74.00	-22.95	H	Peak
7386.000	36.81	1.79	38.60	54.00	-15.40	H	AV
4924.000	58.19	-3.59	54.60	74.00	-19.40	V	Peak
4924.000	44.77	-3.59	41.18	54.00	-12.82	V	AV
7386.000	50.66	1.79	52.45	74.00	-21.55	V	Peak
7386.000	38.03	1.79	39.82	54.00	-14.18	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 v03r03, 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 V03r03, 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

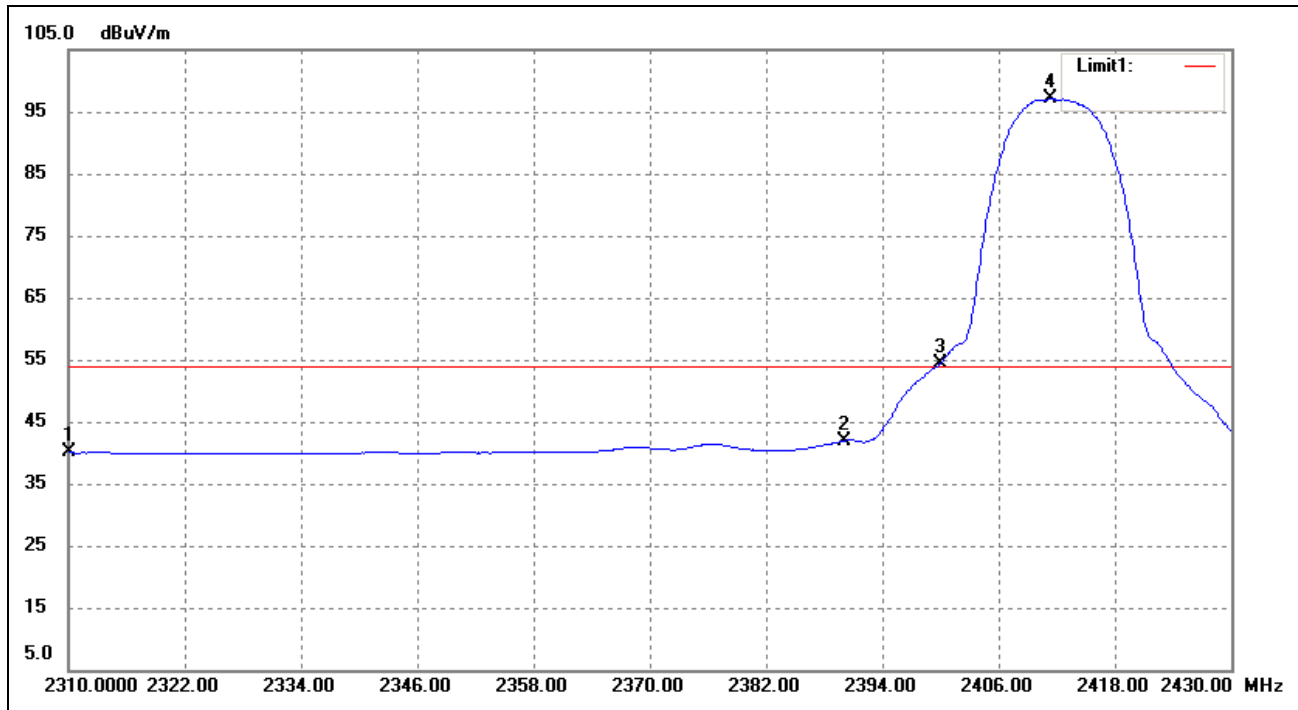
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

Please refer to the test plots as below.

802.11b-Lowest Bandedge

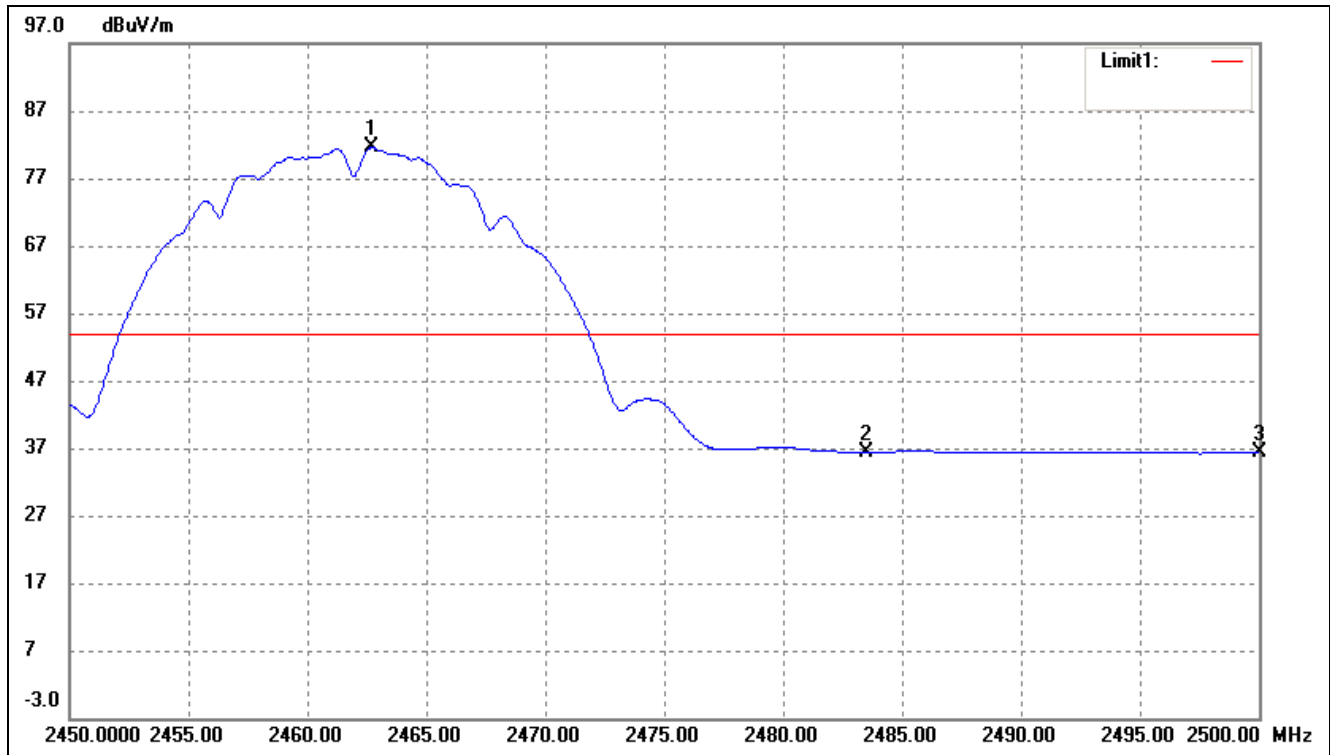
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.73	-3.71	40.02	54.00	-13.98	Average Detector
	2310.000	55.43	-3.71	51.72	74.00	-22.28	Peak Detector
2	2390.000	45.45	-3.54	41.91	54.00	-12.09	Average Detector
	2390.000	56.97	-3.54	53.43	74.00	-20.57	Peak Detector
3	2400.000	57.89	-3.51	54.38	Delta =42.84dBc		Average Detector
4	2411.400	100.70	-3.48	97.22			Average Detector

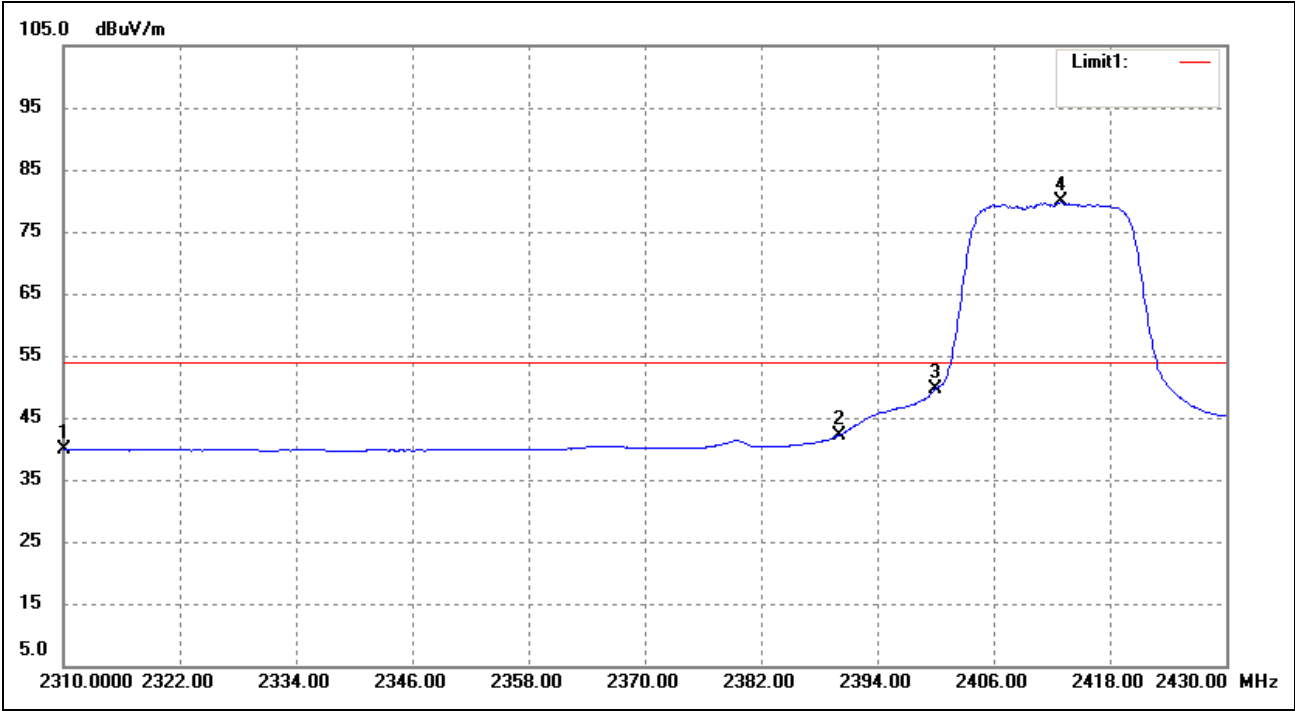
802.11b-Highest Bandedge

Vertical (Worst case)



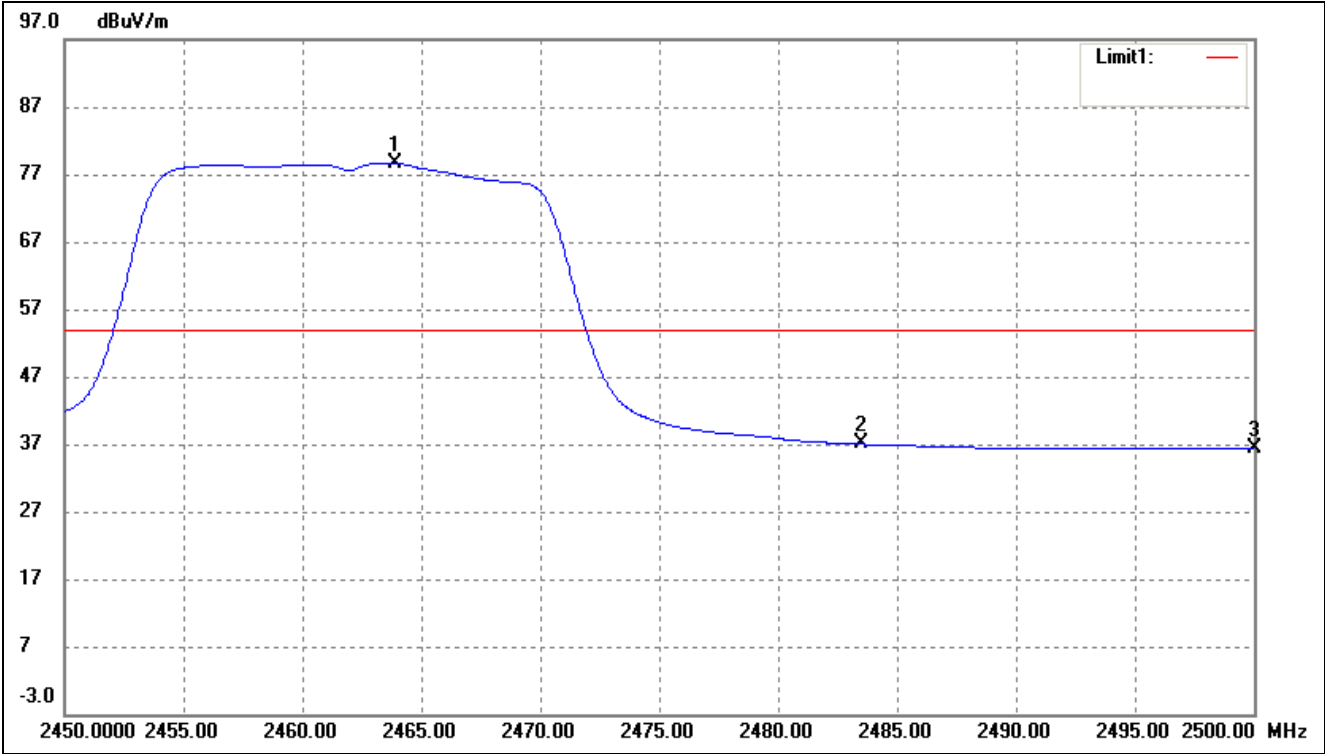
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.700	84.94	-3.36	81.58	/	/	Average Detector
	2470.900	94.39	-3.36	91.03	/	/	Peak Detector
2	2483.500	39.77	-3.33	36.44	54.00	-17.56	Average Detector
	2483.500	49.22	-3.33	45.89	74.00	-28.11	Peak Detector
3	2500.000	39.71	-3.28	36.43	54.00	-17.57	Average Detector
	2500.000	56.52	-3.28	53.24	74.00	-20.76	Peak Detector

802.11g-Lowest Bandedge
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	43.51	-3.71	39.80	54.00	-14.20	Average Detector
	2310.000	54.57	-3.71	50.86	74.00	-23.14	Peak Detector
2	2390.000	45.73	-3.54	42.19	54.00	-11.81	Average Detector
	2390.000	64.92	-3.54	61.38	74.00	-12.62	Peak Detector
3	2400.000	53.13	-3.51	49.62	Delta =30.14dBc		Average Detector
4	2412.960	83.24	-3.48	79.76			Average Detector

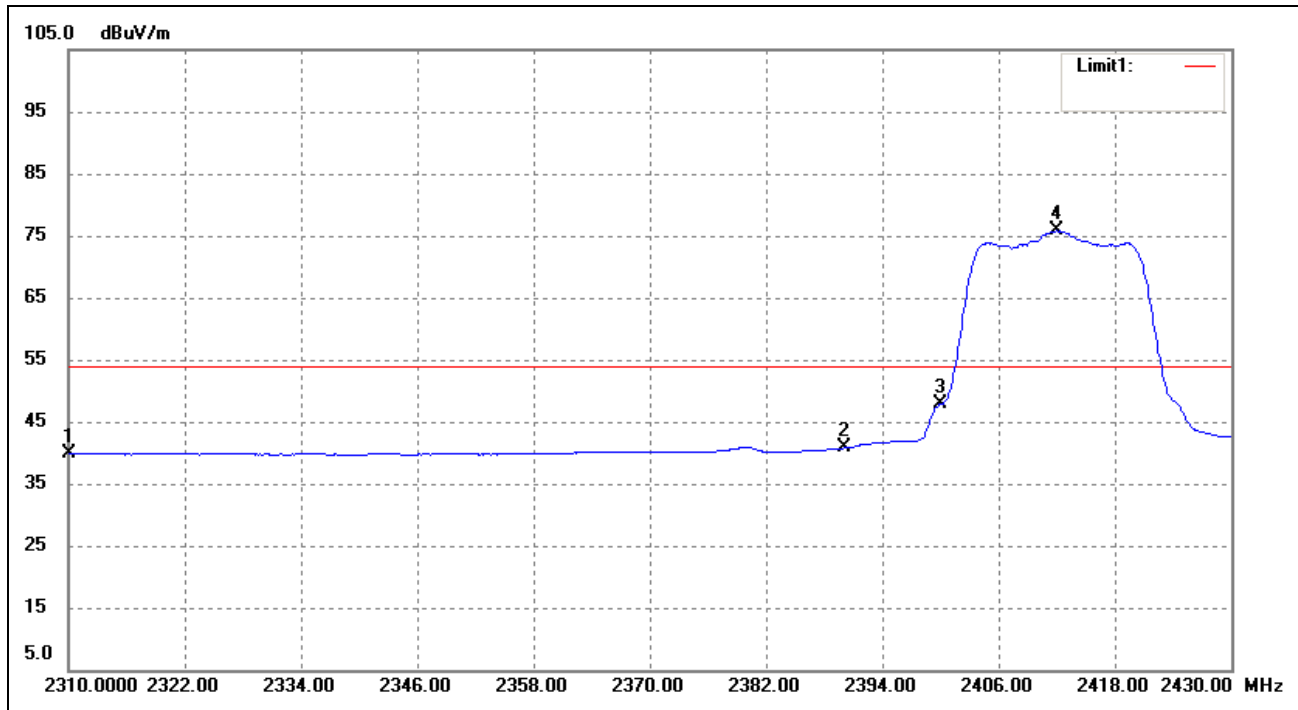
802.11g-Highest Bandedge
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.900	82.04	-3.36	78.68	/	/	Average Detector
	2463.900	87.72	-3.36	84.36	/	/	Peak Detector
2	2483.500	40.37	-3.33	37.04	54.00	-16.96	Average Detector
	2483.500	46.05	-3.33	42.72	74.00	-31.28	Peak Detector
3	2500.000	51.63	-3.28	48.35	74.00	-25.65	Average Detector
	2500.000	39.73	-3.28	36.45	54.00	-17.55	Peak Detector

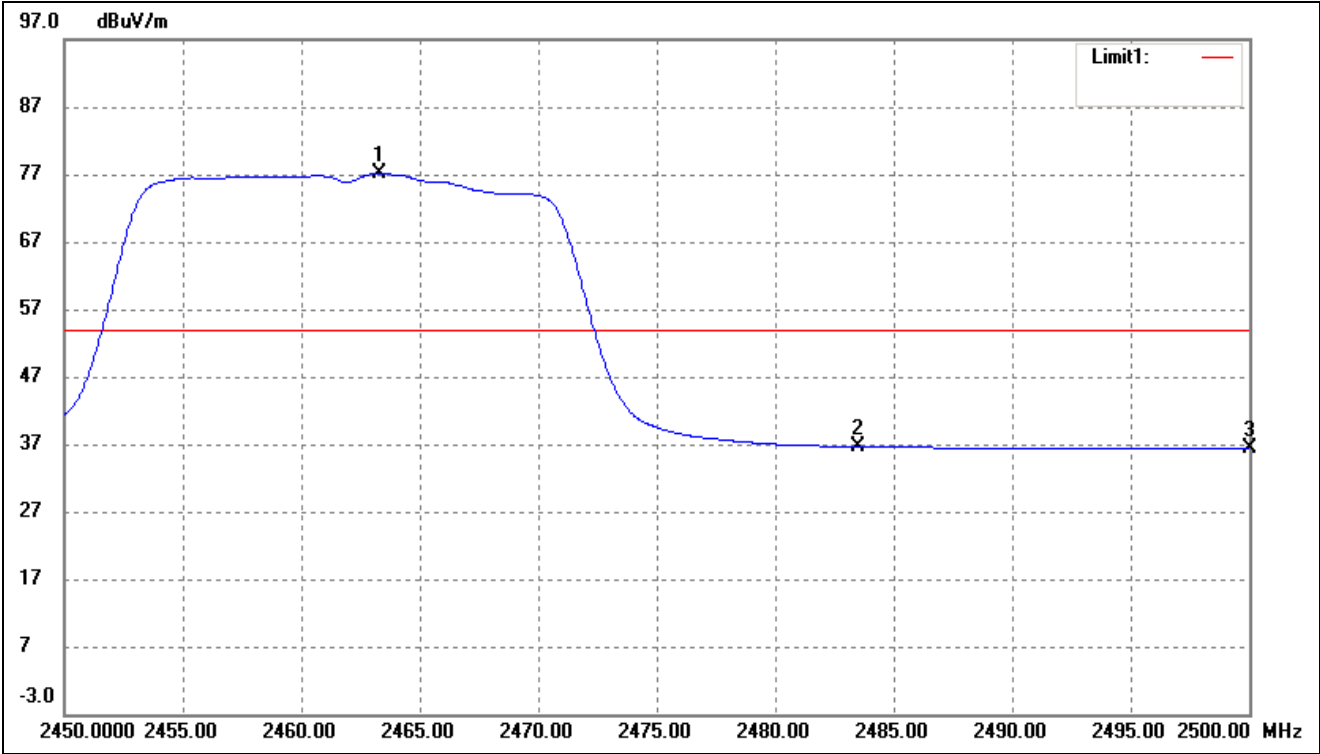
802.11n-HT20-Lowest Bandedge

Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.52	-3.71	39.81	54.00	-14.19	Average Detector
	2310.000	54.95	-3.71	51.24	74.00	-22.76	Peak Detector
2	2390.000	44.30	-3.54	40.76	54.00	-13.24	Average Detector
	2390.000	57.55	-3.54	54.01	74.00	-19.99	Peak Detector
3	2400.000	51.33	-3.51	47.82	Delta =28.07dBc		Average Detector
4	2412.000	79.37	-3.48	75.89			Average Detector

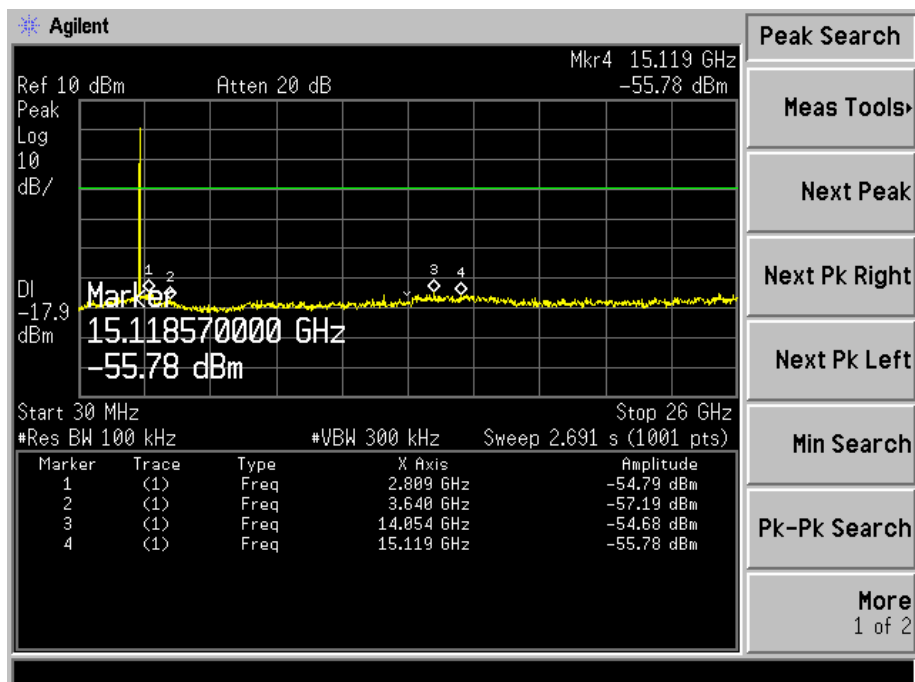
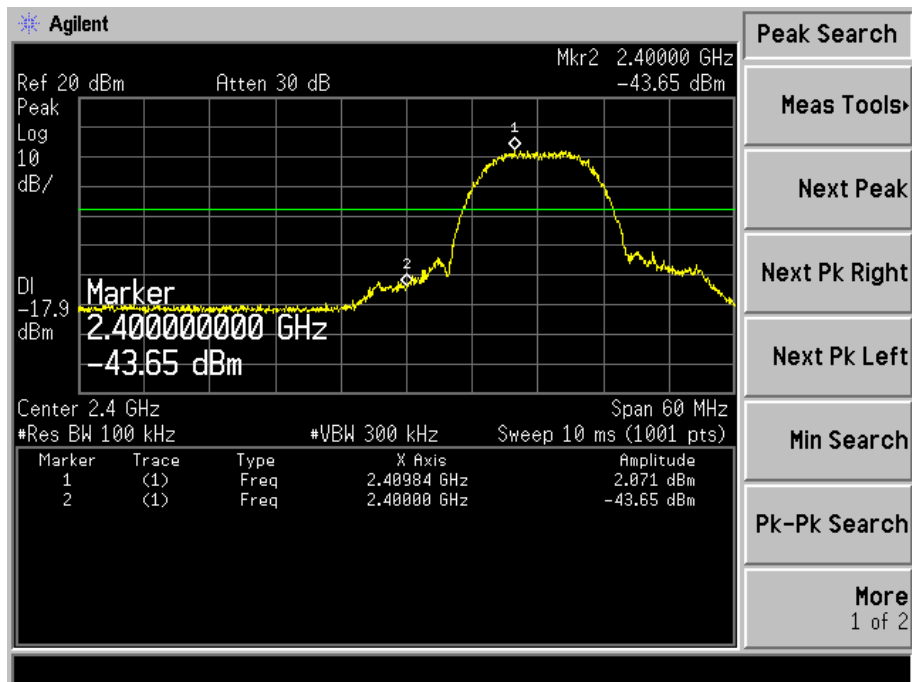
802.11n-HT20-Highest Bandedge
Vertical (Worst case)



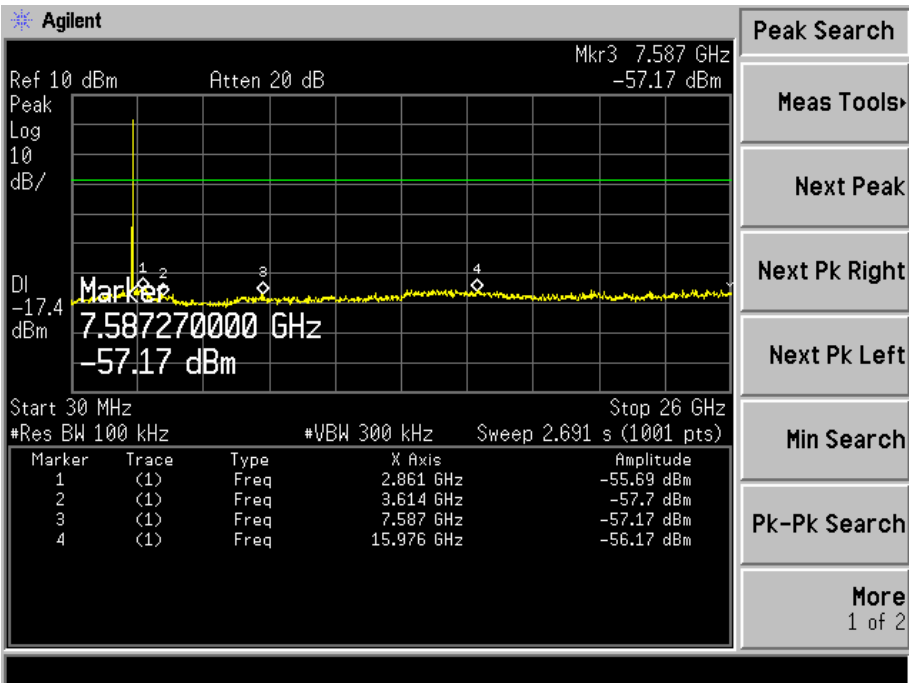
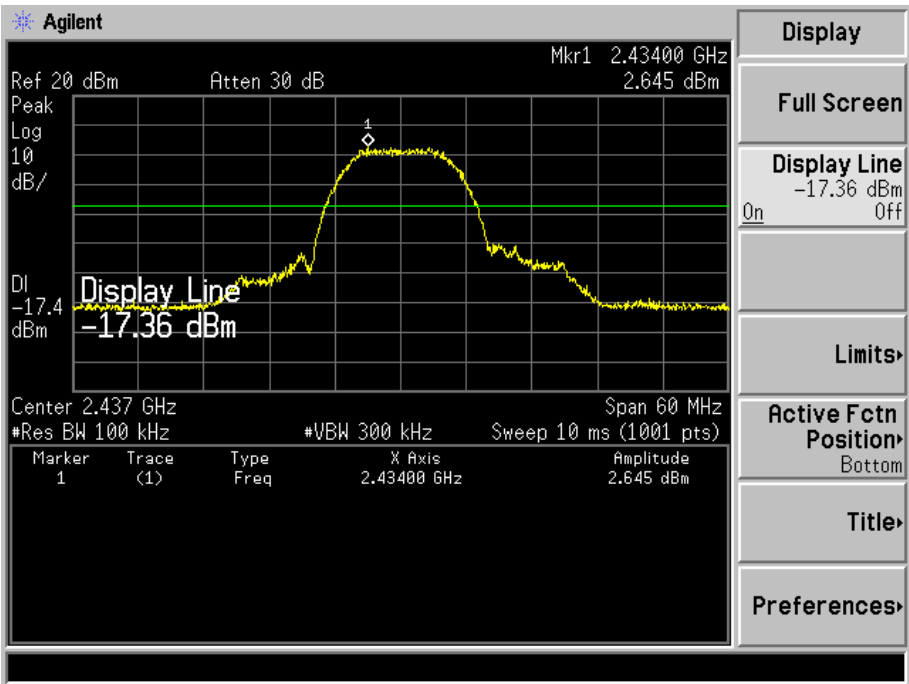
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.300	80.50	-3.36	77.14	/	/	Average Detector
	2463.300	92.39	-3.36	89.03	/	/	Peak Detector
2	2483.500	40.01	-3.33	36.68	54.00	-17.32	Average Detector
	2483.500	51.90	-3.33	48.57	74.00	-25.43	Peak Detector
3	2500.000	51.89	-3.28	48.61	74.00	-25.39	Average Detector
	2500.000	39.70	-3.28	36.42	54.00	-17.58	Peak Detector

802.11b- Bandedge(Conducted)

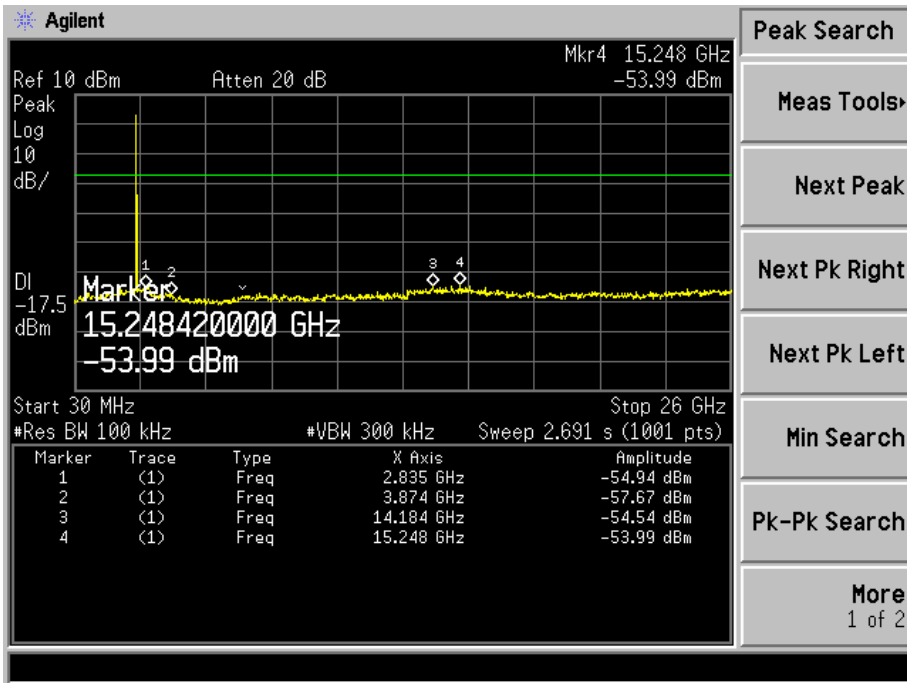
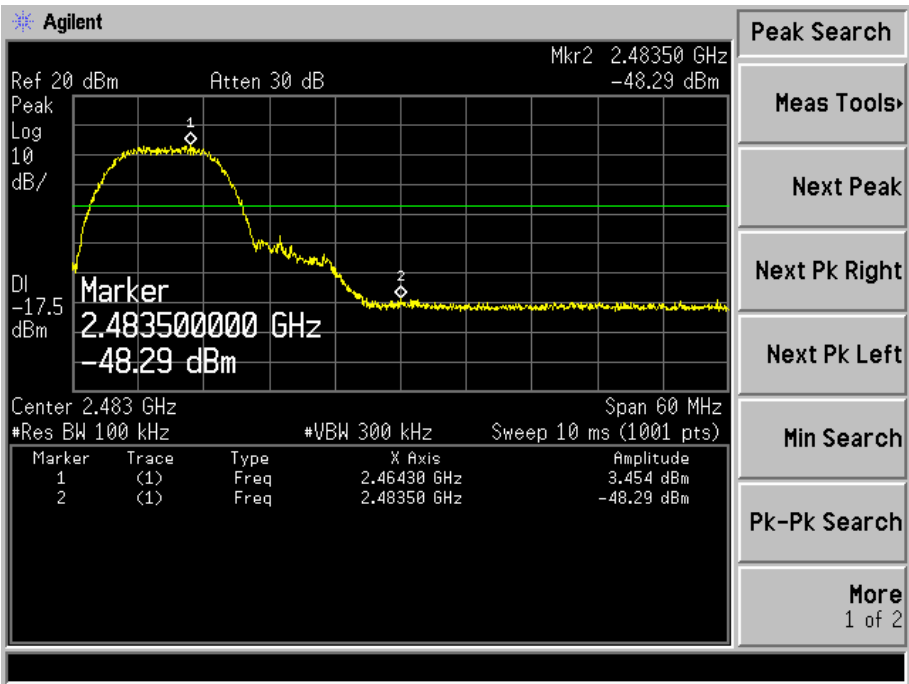
Low Channel



Middle Channel

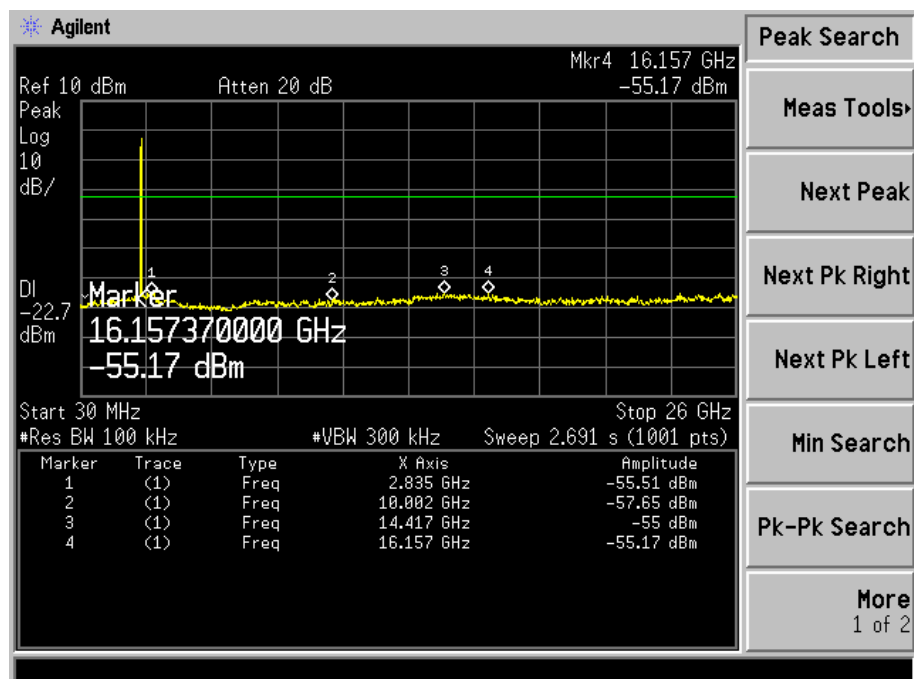
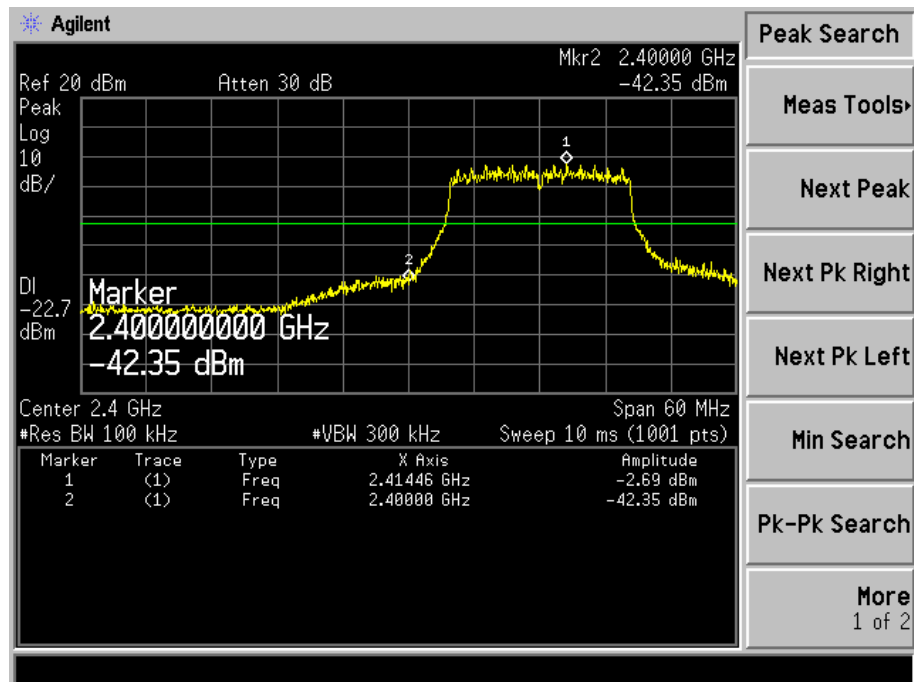


High Channel

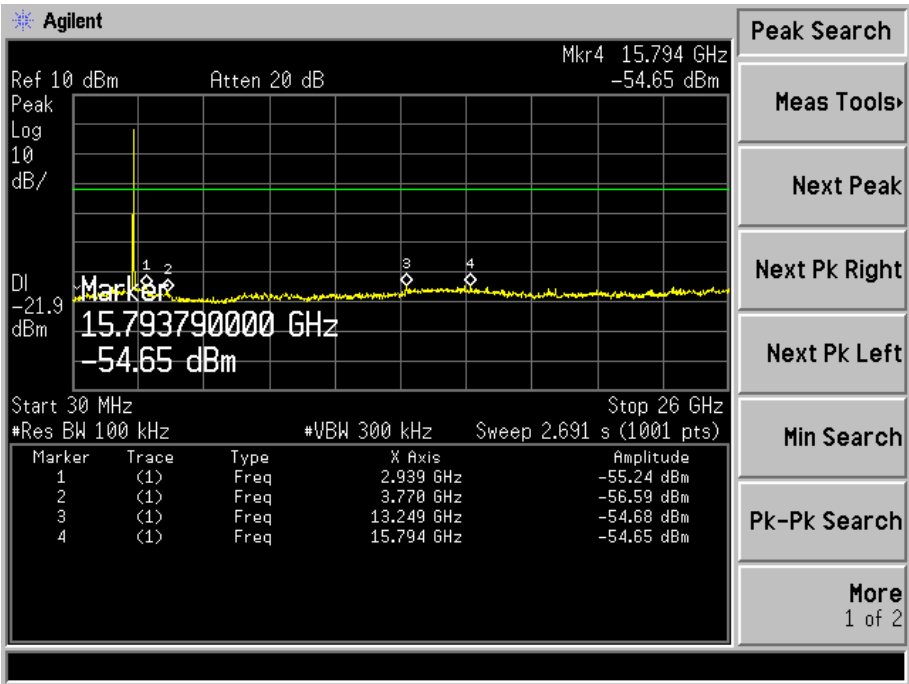
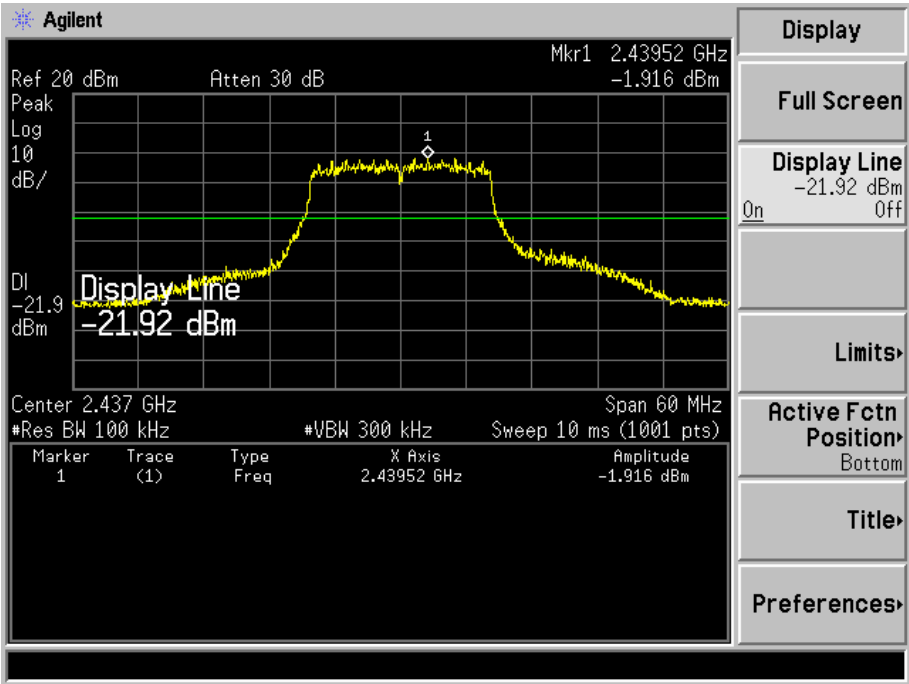


802.11g- Bandedge(Conducted)

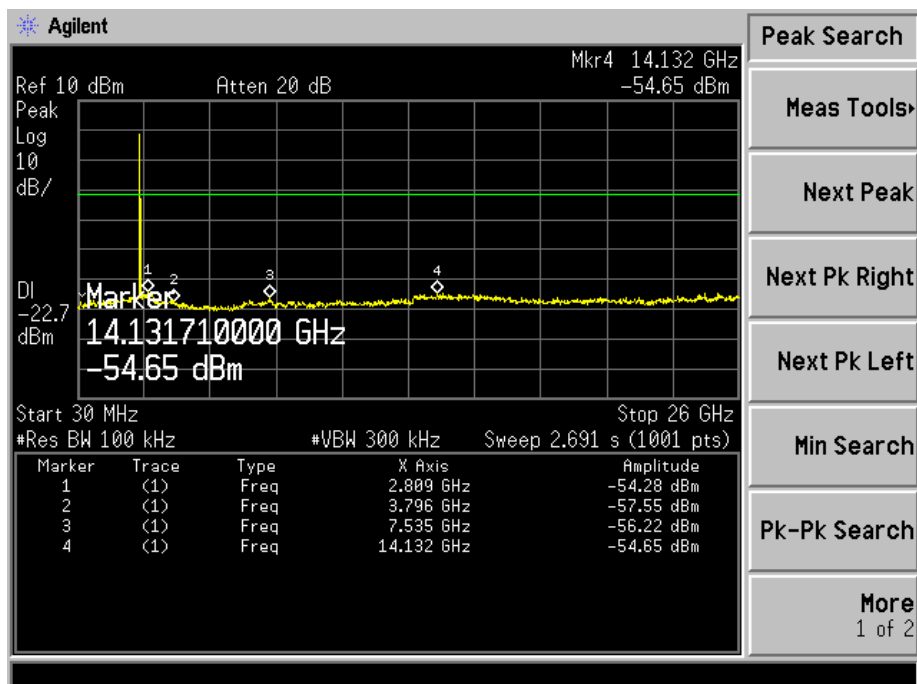
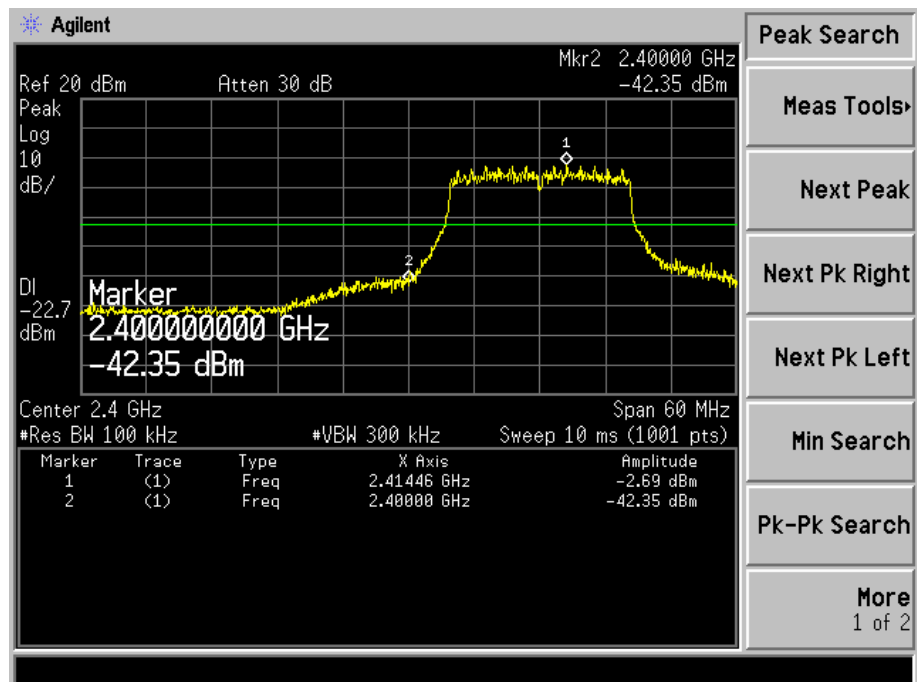
Low Channel



Middle Channel

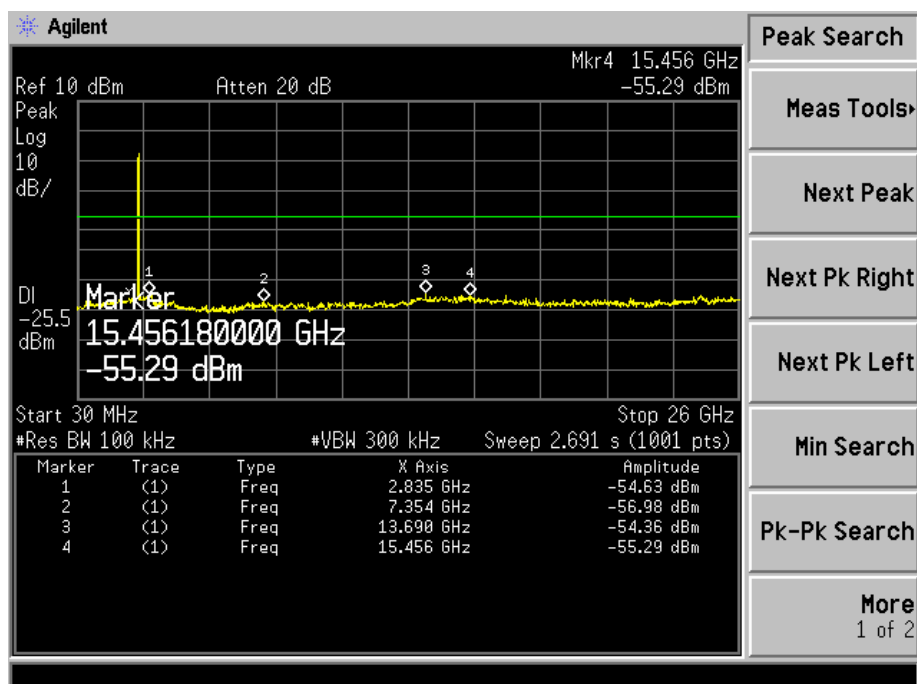
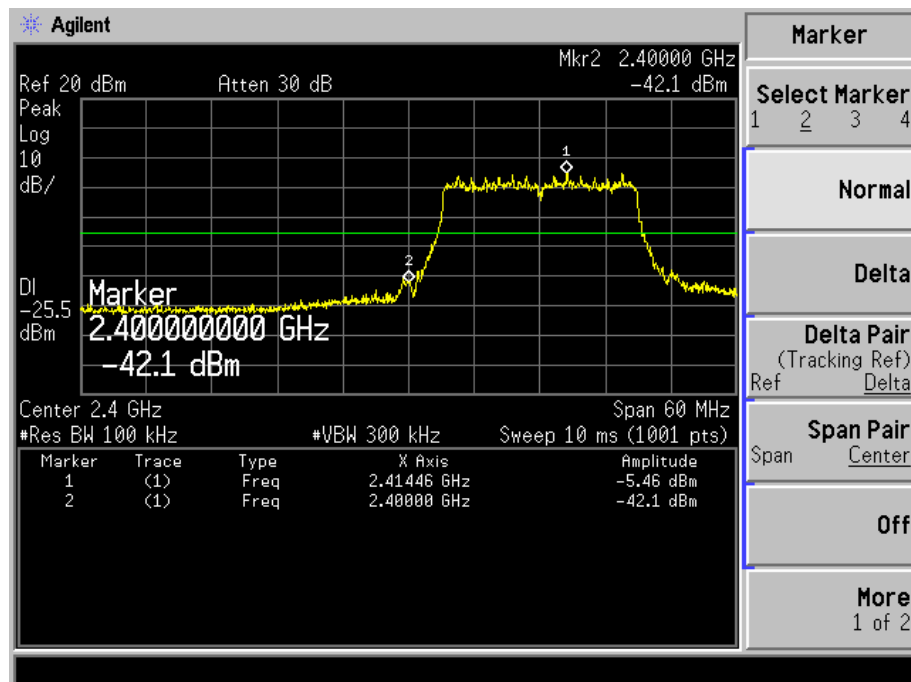


High Channel

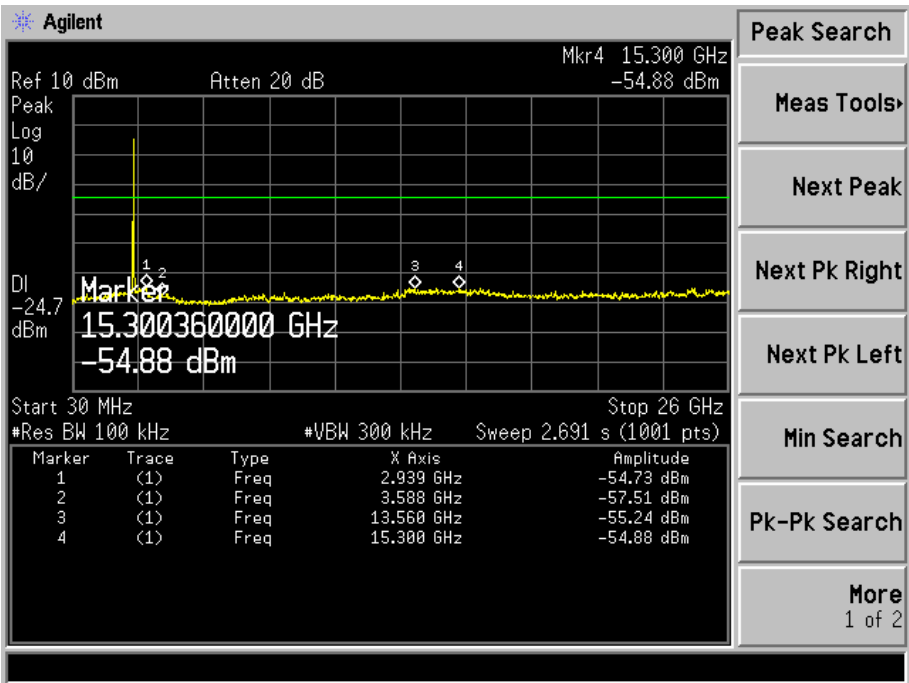
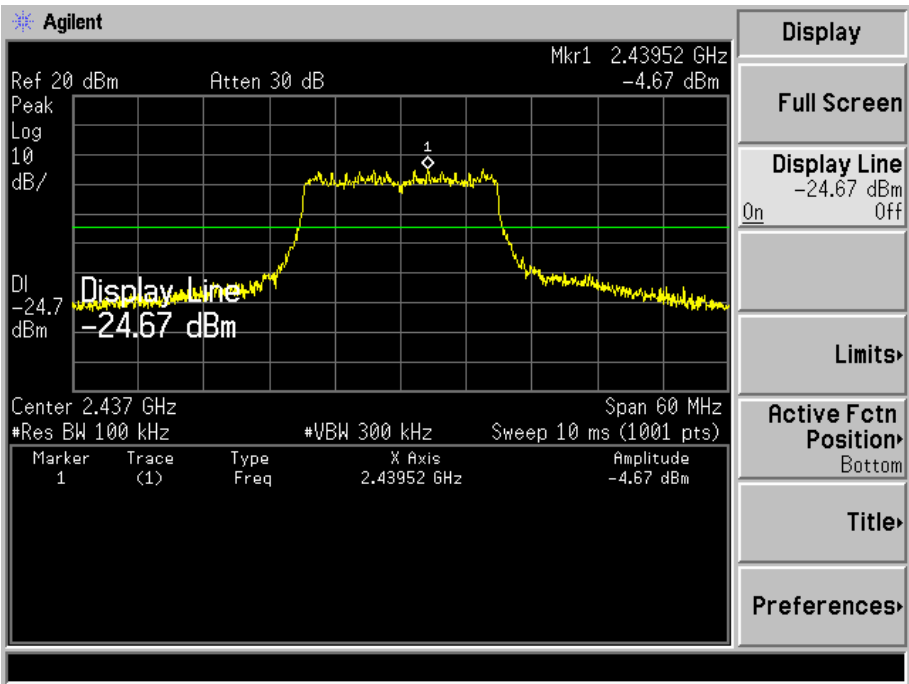


802.11n20- Bandedge(Conducted)

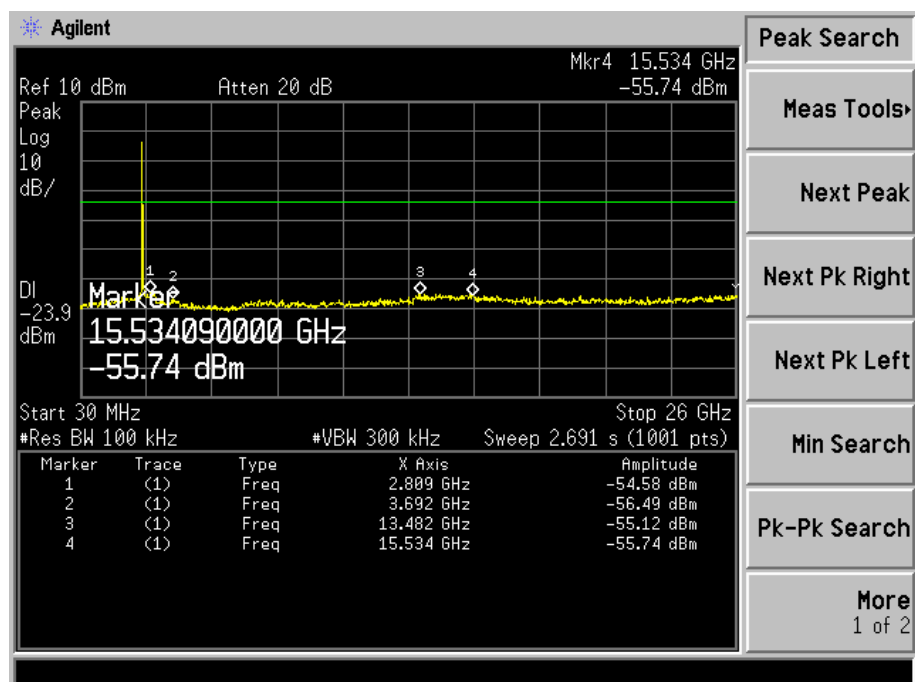
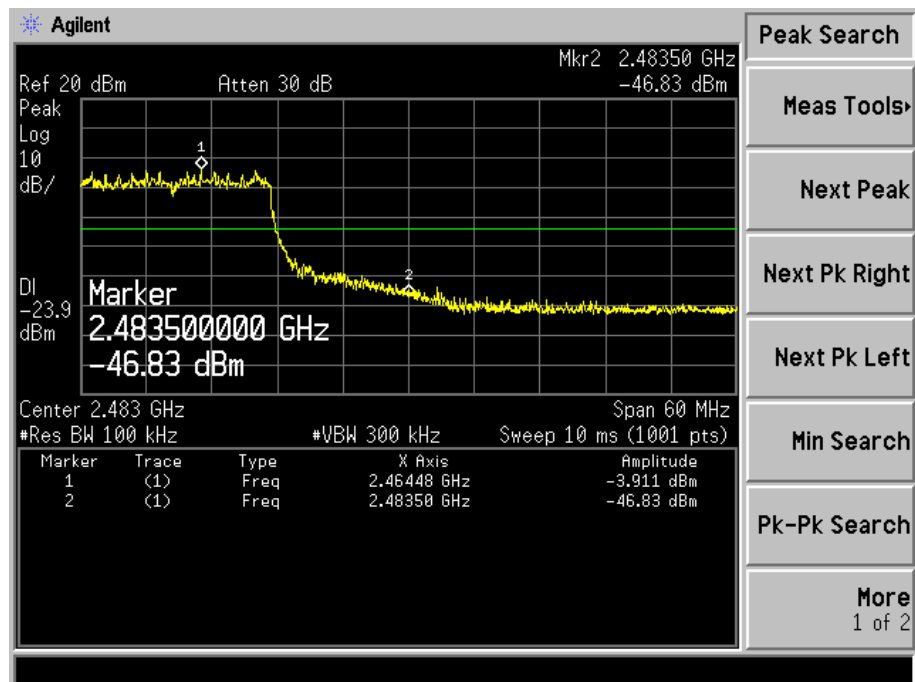
Low Channel



Middle Channel



High Channel



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.

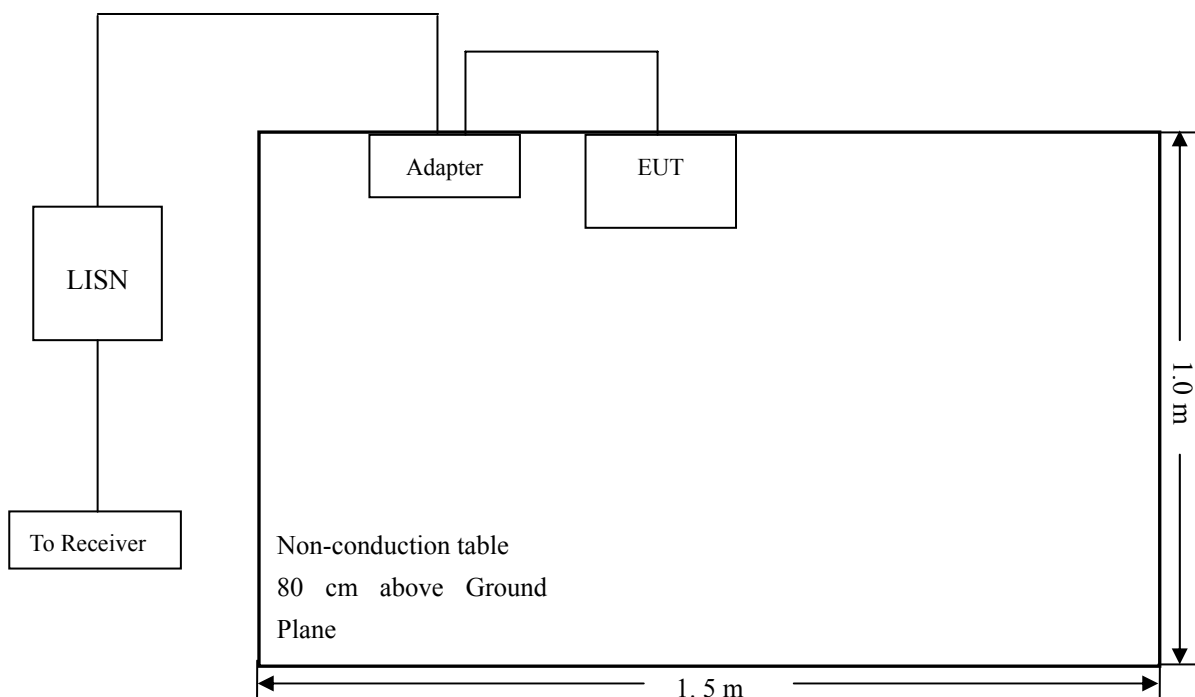
10.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2009 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 107, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

-1.11 dB at 2.4660 MHz in the **Line** mode, **AVG** detector, **0.15-30MHz**

10.7 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

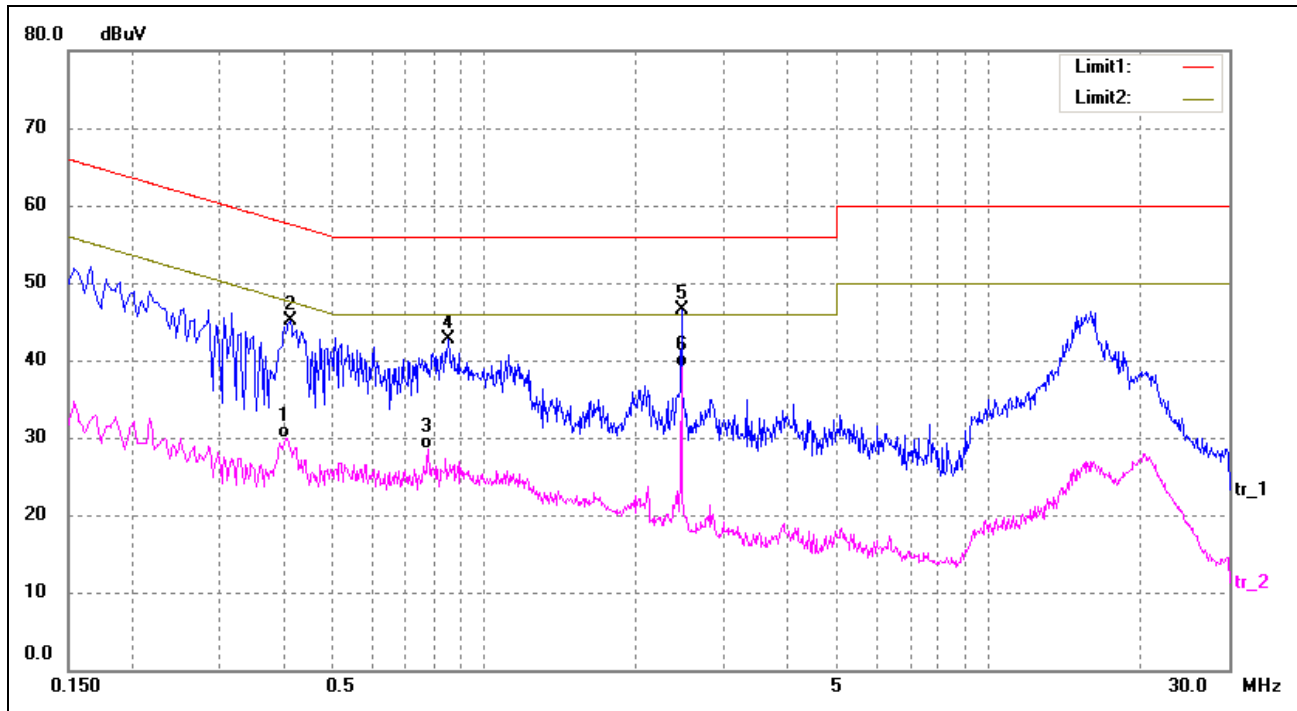
EUT: 3G Mobile Phone

Tested Model: LIFE

Operating Condition: TM1

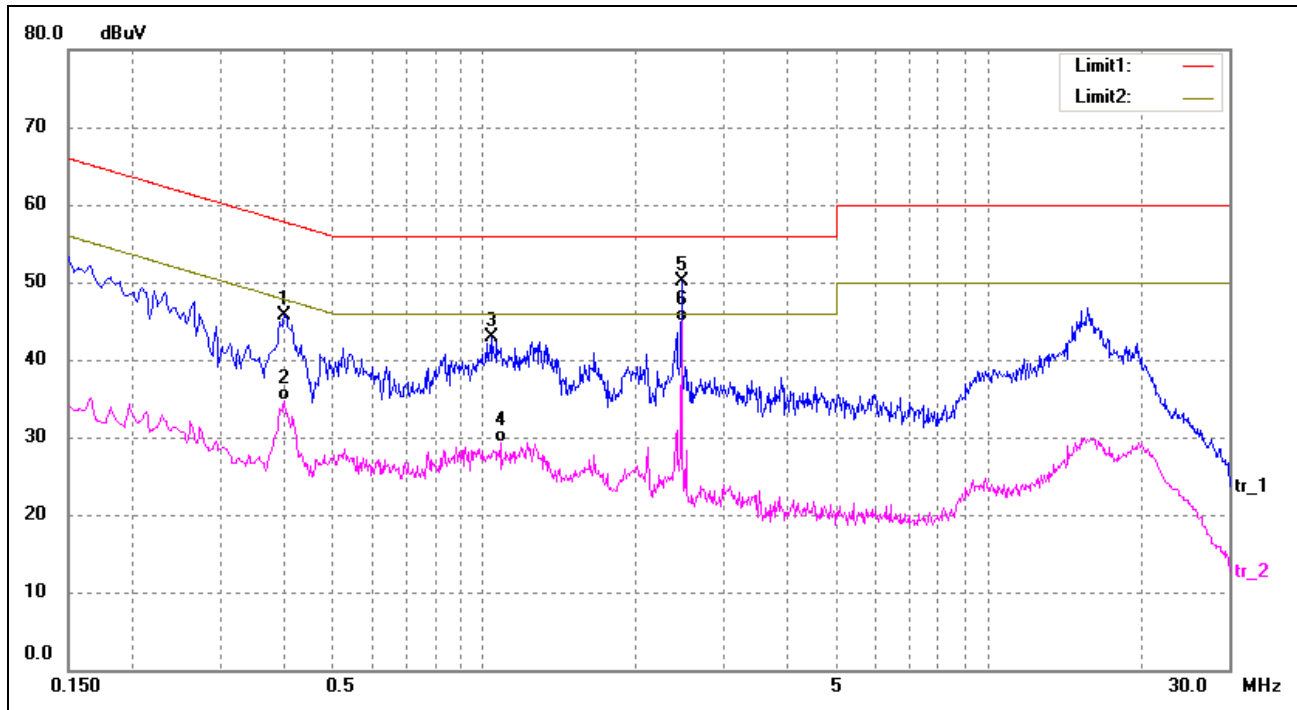
Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.4060	17.50	12.50	30.00	47.73	-17.73	AVG
2	0.4140	32.52	12.50	45.02	57.57	-12.55	QP
3	0.7780	15.63	12.78	28.41	46.00	-17.59	AVG
4	0.8500	29.87	12.85	42.72	56.00	-13.28	QP
5	2.4660	33.46	13.00	46.46	56.00	-9.54	QP
6	2.4660	26.07	13.00	39.07	46.00	-6.93	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.4020	33.16	12.50	45.66	57.81	-12.15	QP
2	0.4020	22.20	12.50	34.70	47.81	-13.11	AVG
3	1.0420	29.93	13.00	42.93	56.00	-13.07	QP
4	1.0780	16.30	13.00	29.30	46.00	-16.70	AVG
5	2.4660	37.16	13.00	50.16	56.00	-5.84	QP
6	2.4660	31.89	13.00	44.89	46.00	-1.11	AVG

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