

FCC Part 15C Measurement and Test Report

For

Amgoo Telecom Co., Ltd.

3/F, Block R2-A(North), Gaoxin S. Ave. 4th, Hi-Tech Industrial Park,

Nanshan District, Shenzhen, China

FCC ID: UOSAM530

FCC Rule(s):	<u>FCC Part 15C</u>
Product Description:	<u>4G Smart Phone</u>
Tested Model:	<u>AM530</u>
Report No.:	<u>STR17088409I-3</u>
Tested Date:	<u>2017-09-01 to 2017-09-14</u>
Issued Date:	<u>2017-09-15</u>
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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: Amgoo Telecom Co., Ltd.
Address of applicant: 3/F, Block R2-A(North), Gaoxin S. Ave. 4th, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China

General Description of EUT	
Product Name:	4G Smart Phone
Brand Name:	Amgoo
Model No.:	AM530
Adding Model(s):	/
Rated Voltage:	DC 3.8V by Battery
Battery Capacity:	2000mAh
Power Adapter:	Model: CH4 Input:100V-240V, 50/60Hz,0.2A; Output:5V,0.7A
Software Version:	AM530-HN-V03-20170909-170152
Hardware Version:	FG001-MB-V0.1
Note: The test data is gathered from a production sample provided by the manufacturer.	

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:	14.11dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	-0.5dBi

1.2 Test Standards

The following report is prepared on behalf of the Amgoo Telecom 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 C63.10-2013, 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 v04 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

FCC – Registration No.: 260439

Centre Testing International Group Co., Ltd Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN1164, and Test Firm Registration Number is 260439.

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
Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.		

Accessories Equipment List and Details			
Description	Manufacturer	Model No.	Serial Number
Notebook	Lenovo	E445	
Accessories Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core
/	/	/	/
EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core
USB Cable	1.0	Shielded	Without Ferrite
Earphone	1.2	Unshielded	Without Ferrite

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2018-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11
N/A	Pre-amplifier	Direction Systems Inc.	N/A	N/A	2017-07-09	2018-07-08
N/A	Pre-amplifier	Direction Systems Inc.	N/A	N/A	2017-07-09	2018-07-08
N/A	Spectrum Analyzer	R&S	FSP40	100416	2017-07-09	2018-07-08
N/A	DRG Horn Antenna	DRG Horn Antenna	N/A	N/A	2017-07-09	2018-07-08

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
§15.205	Restricted Band of Operation	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 RF Exposure 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 v04, 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

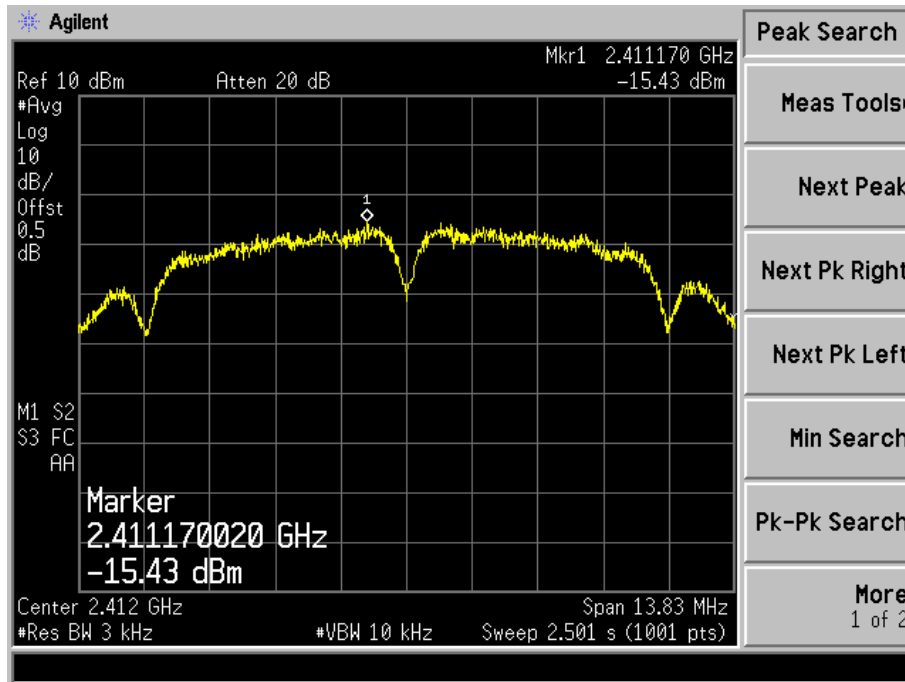
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.4 Summary of Test Results/Plots

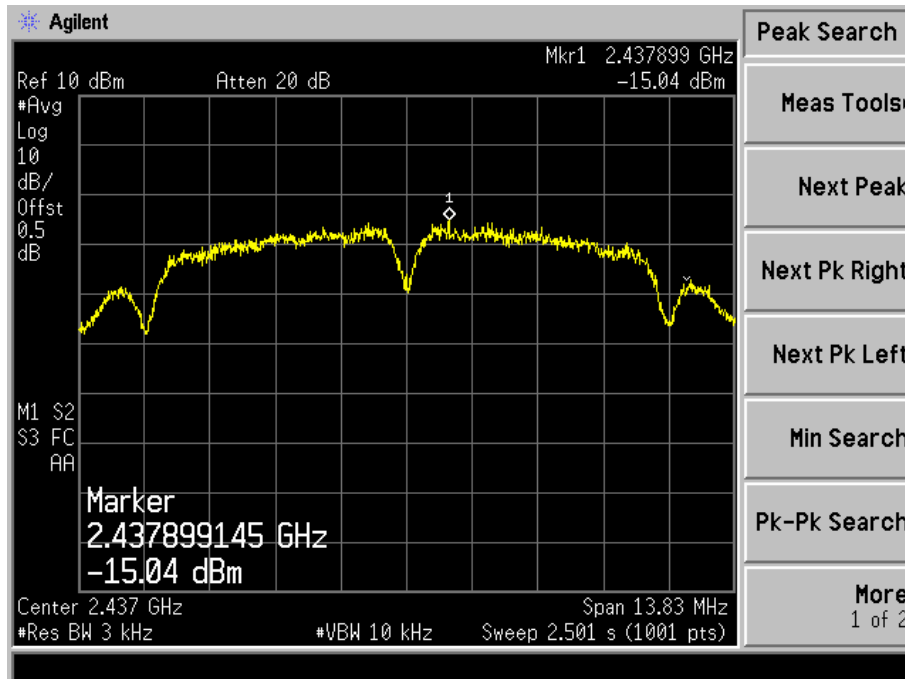
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-15.43	8
	2437	-15.04	8
	2462	-15.83	8
802.11g	2412	-24.20	8
	2437	-21.52	8
	2462	-21.70	8
802.11n HT20	2412	-24.05	8
	2437	-22.10	8
	2462	-22.19	8
802.11n HT40	2422	-26.85	8
	2437	-26.39	8
	2452	-26.27	8

Please refer to the following test plots:

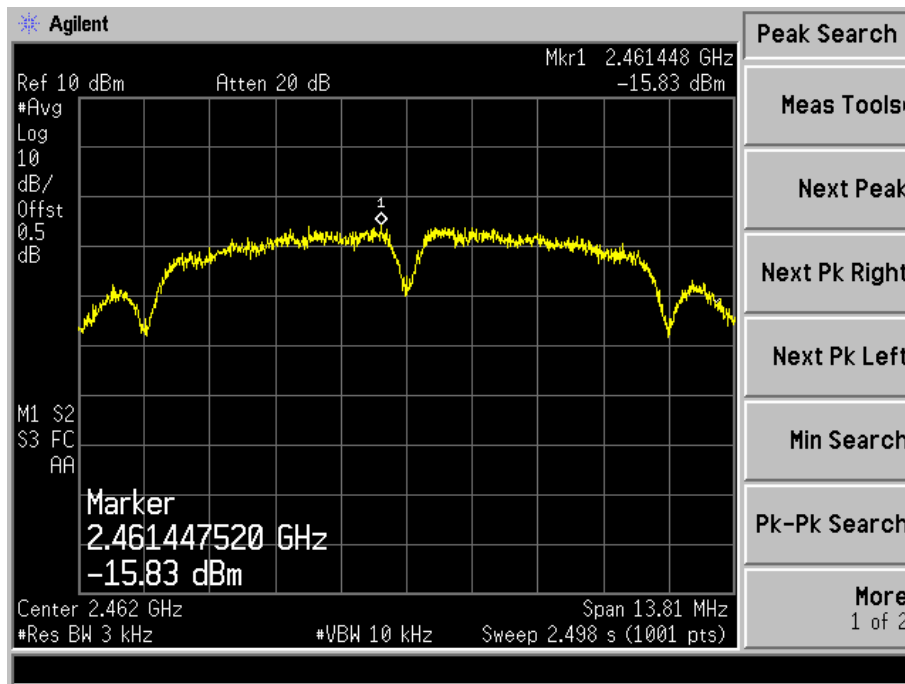
802.11b-Low Channel



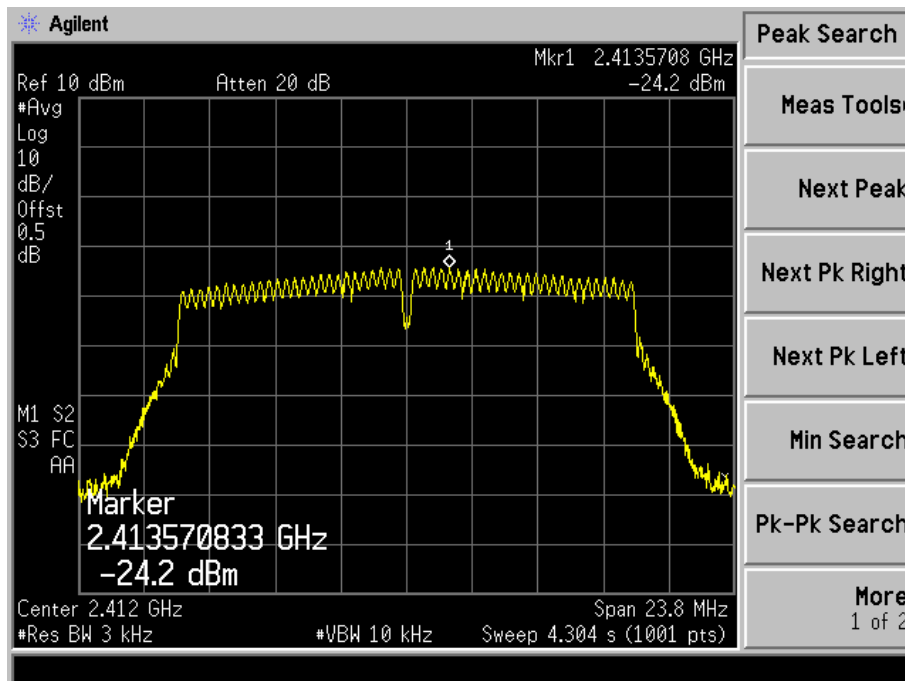
802.11b-Middle Channel



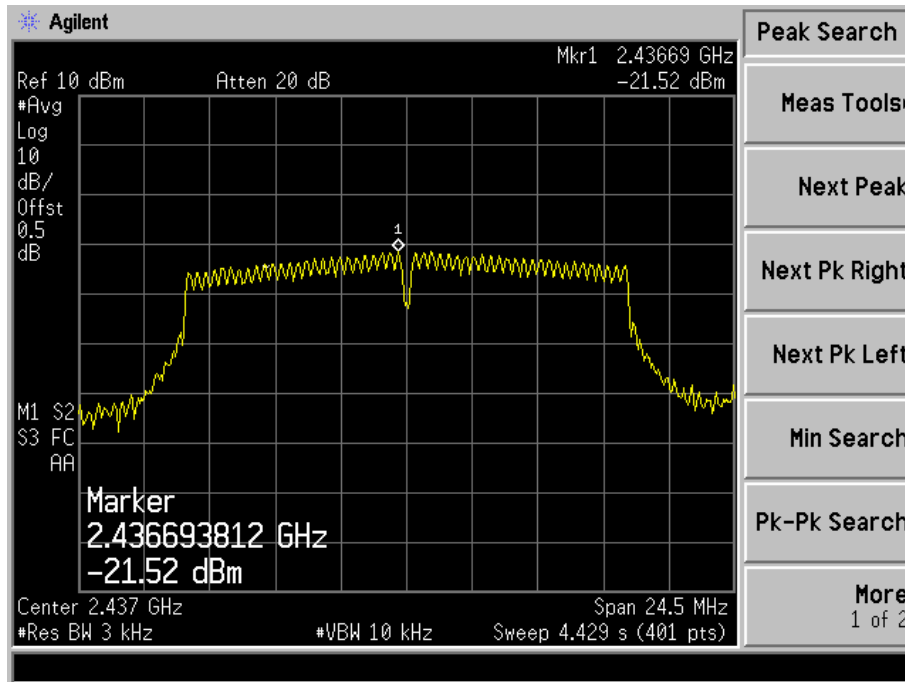
802.11b-High Channel



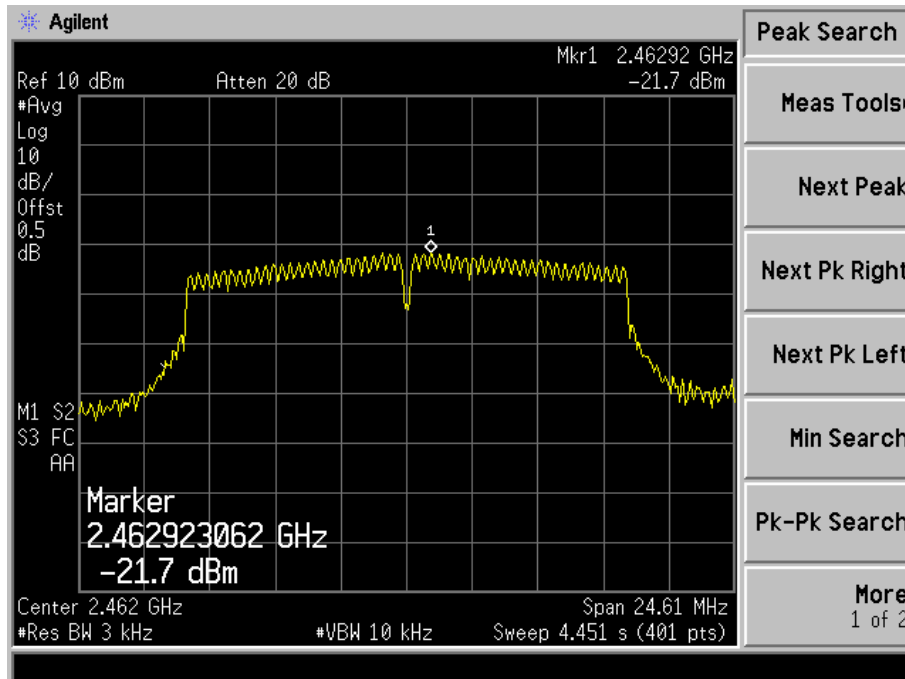
802.11g-Low Channel



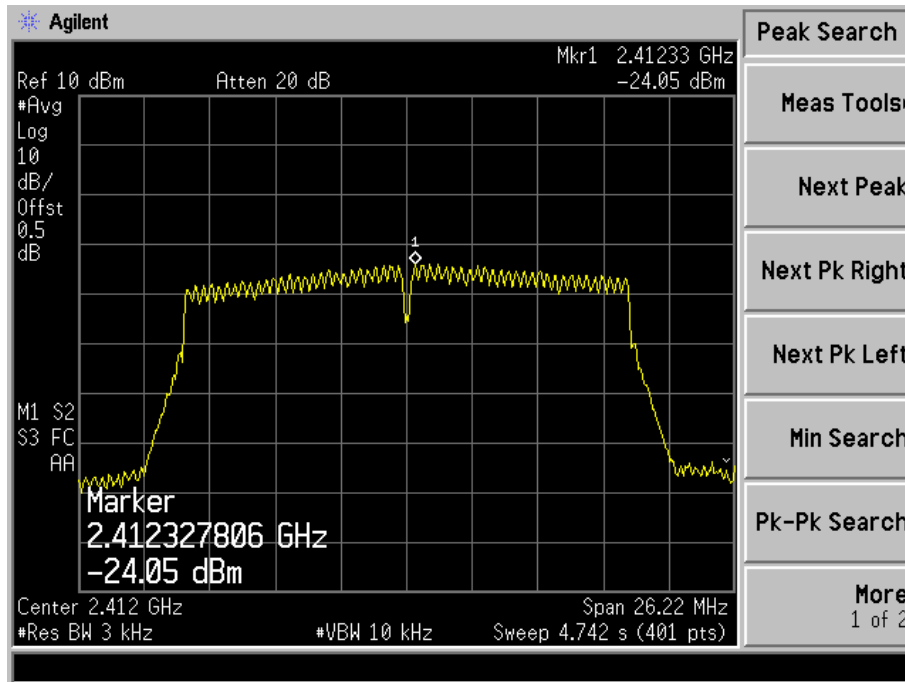
802.11g-Middle Channel



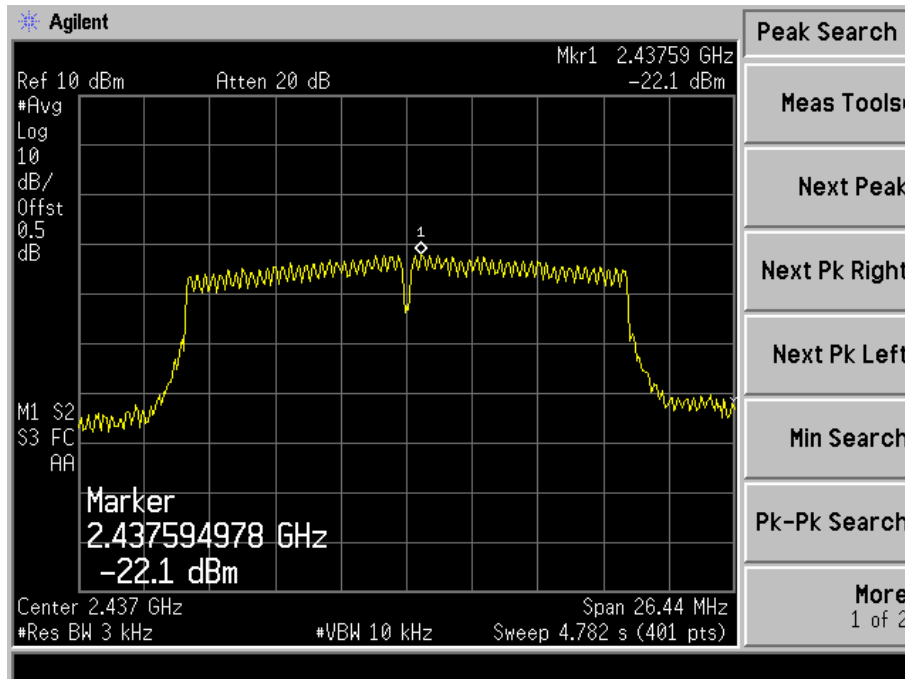
802.11g-High Channel



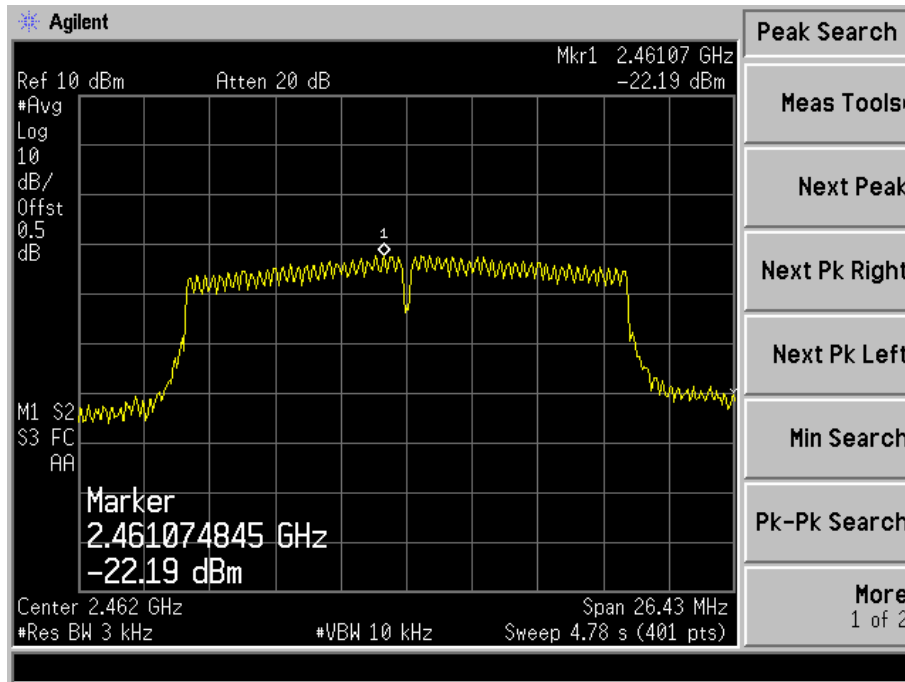
802.11n-HT20-Low Channel



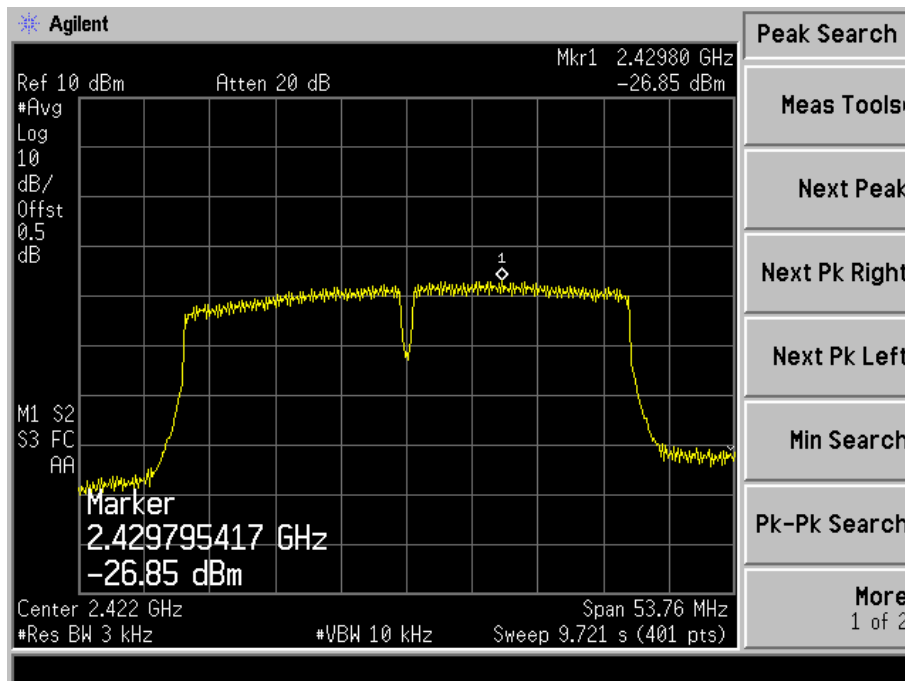
802.11n-HT20-Middle Channel



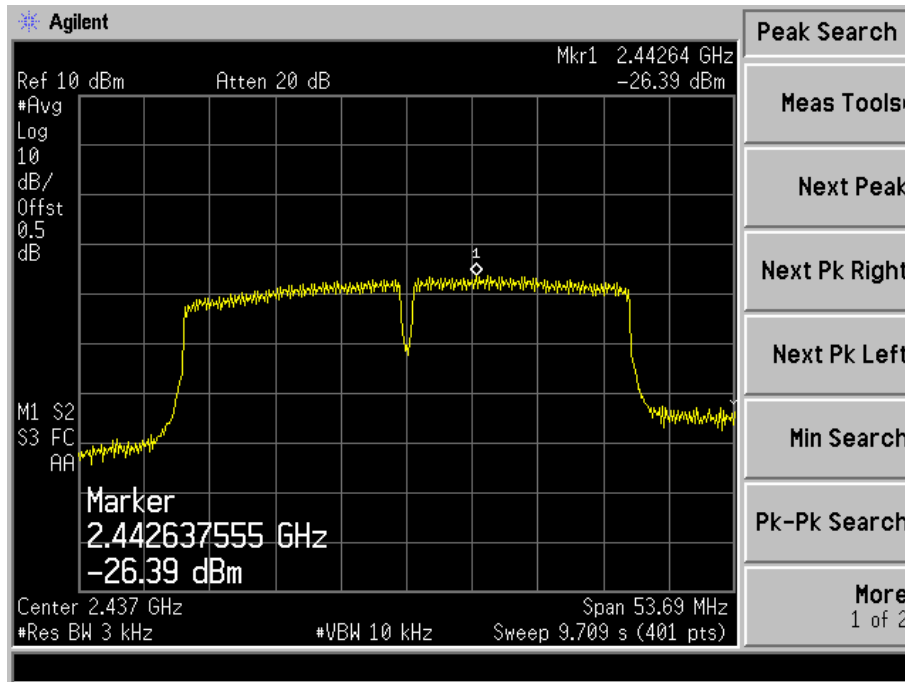
802.11n-HT20-High Channel



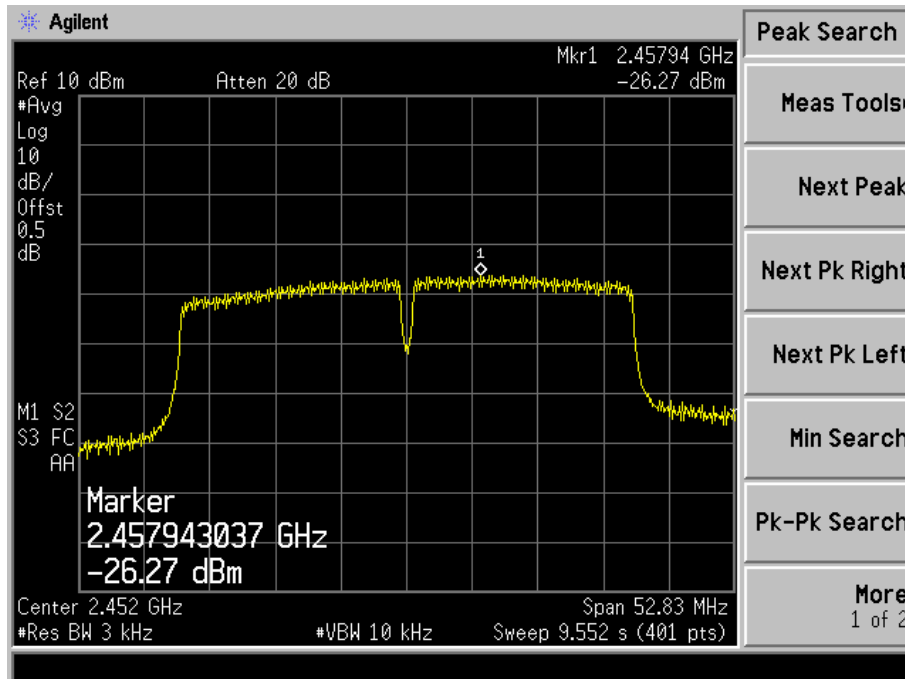
802.11n-HT40-Low Channel



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

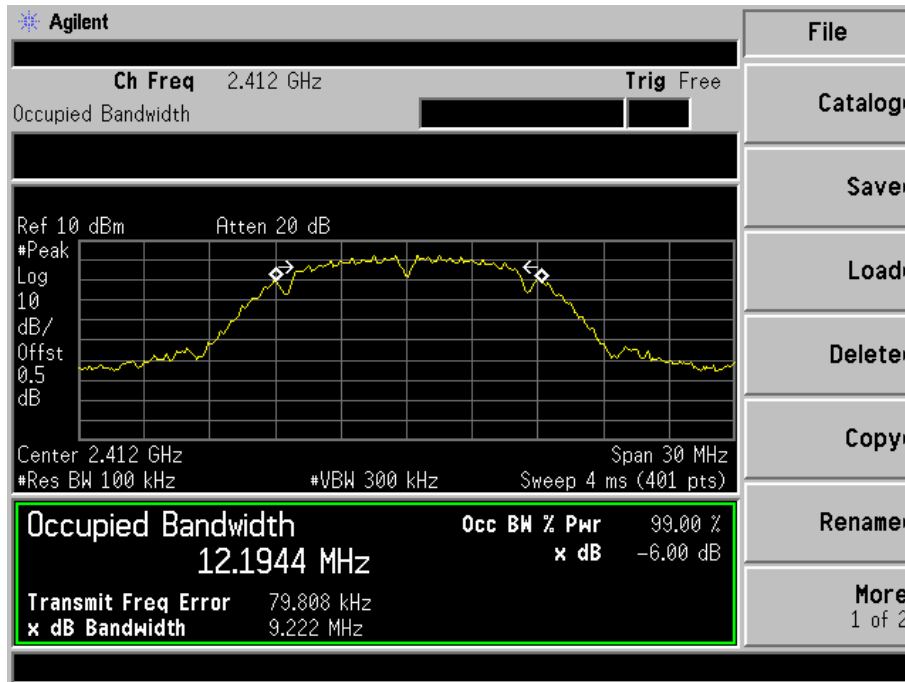
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

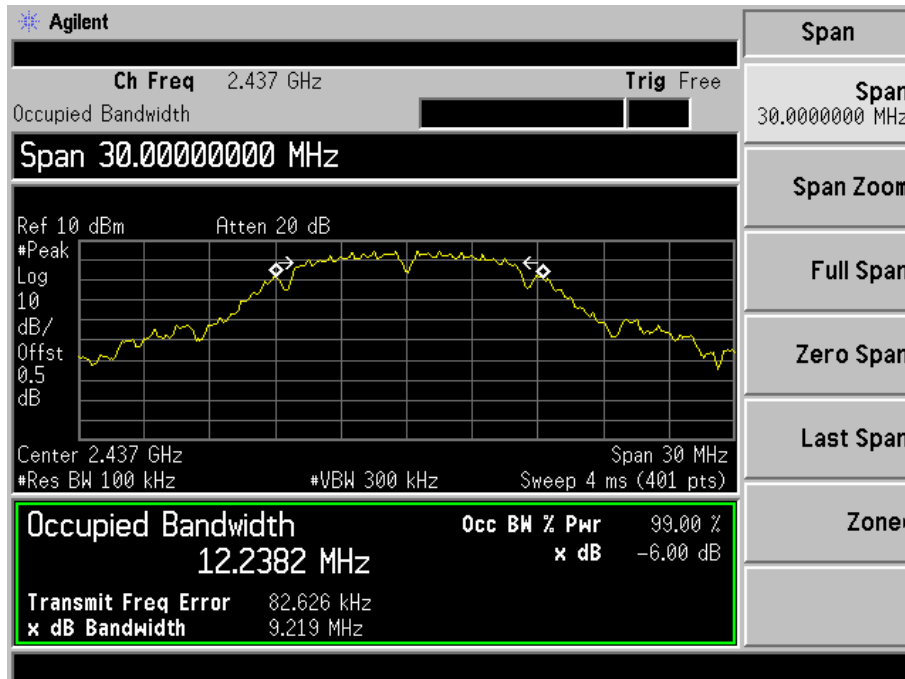
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	9.222	12.1944	≥ 500
	2437	9.219	12.2382	≥ 500
	2462	9.208	12.4312	≥ 500
802.11g	2412	15.867	16.3526	≥ 500
	2437	16.330	16.4646	≥ 500
	2462	16.410	16.4830	≥ 500
802.11n-HT20	2412	17.483	17.5235	≥ 500
	2437	17.629	17.5939	≥ 500
	2462	17.622	17.6211	≥ 500
802.11n-HT40	2422	35.841	35.7678	≥ 500
	2437	35.794	35.8074	≥ 500
	2452	35.218	35.8219	≥ 500

Please refer to the following test plots:

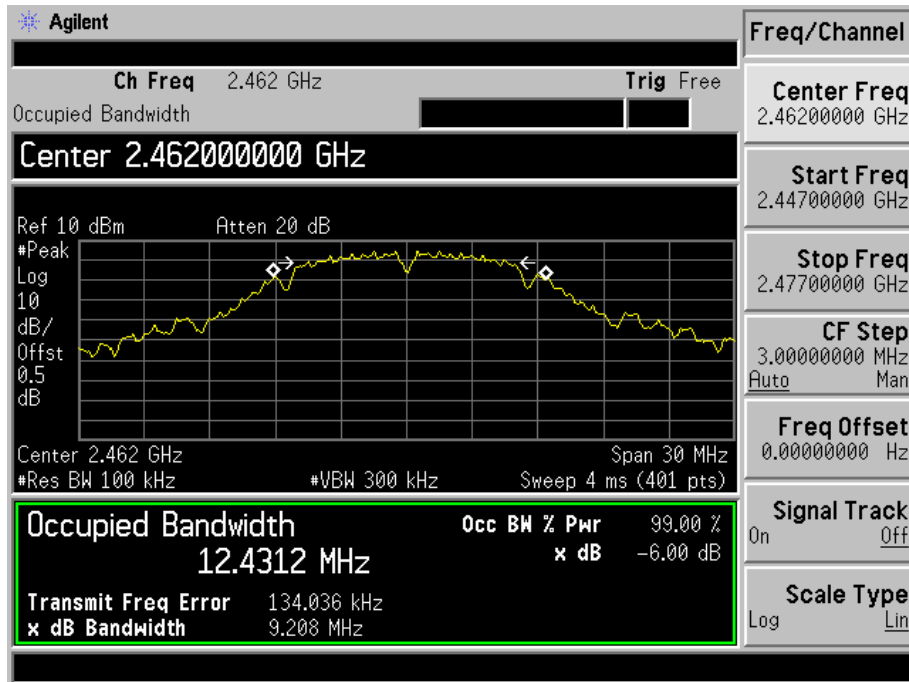
802.11b-Low Channel



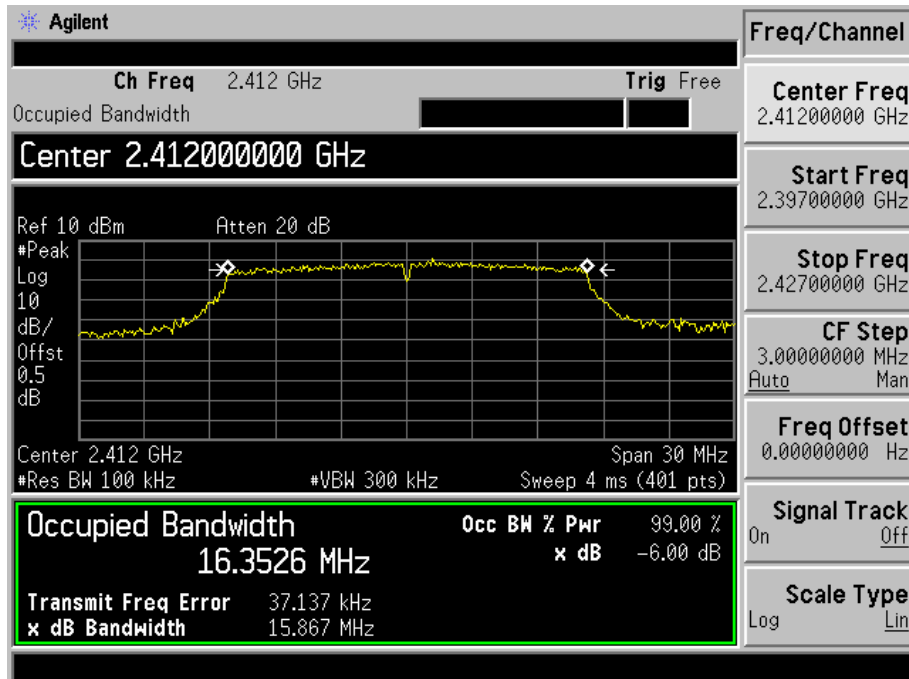
802.11b-Middle Channel



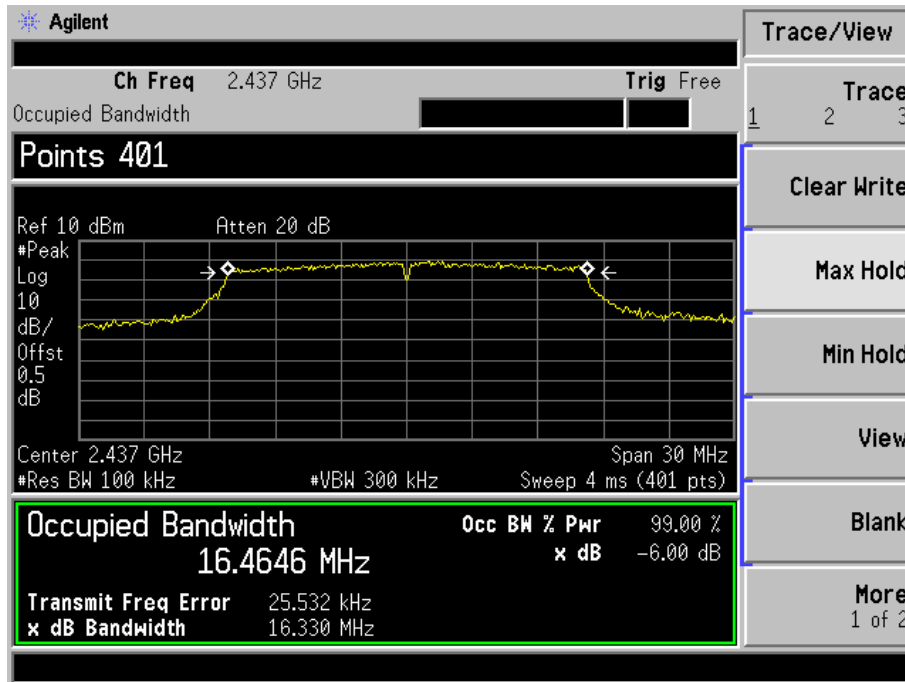
802.11b-High Channel



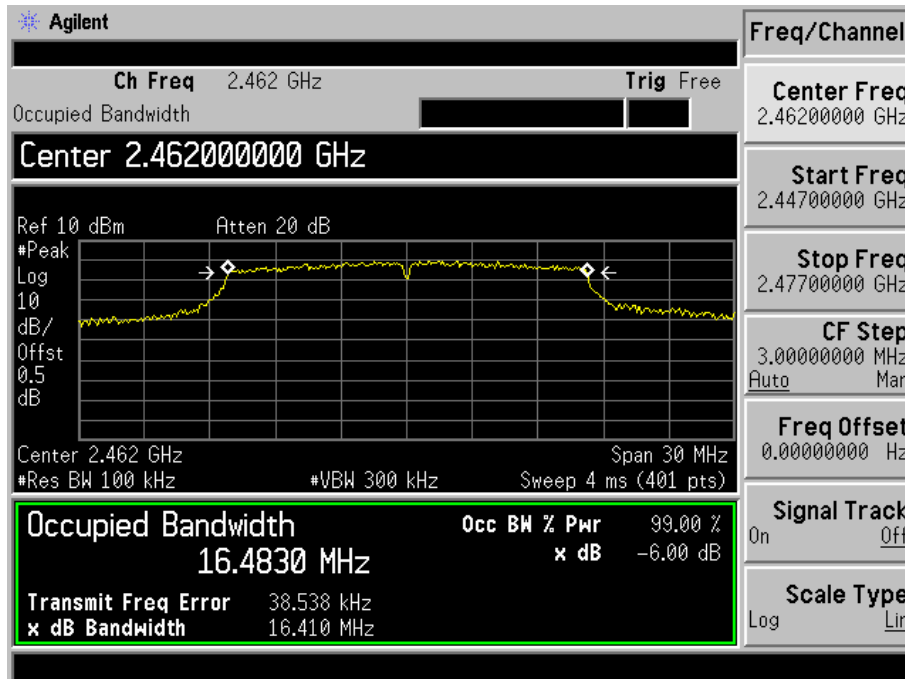
802.11g-Low Channel



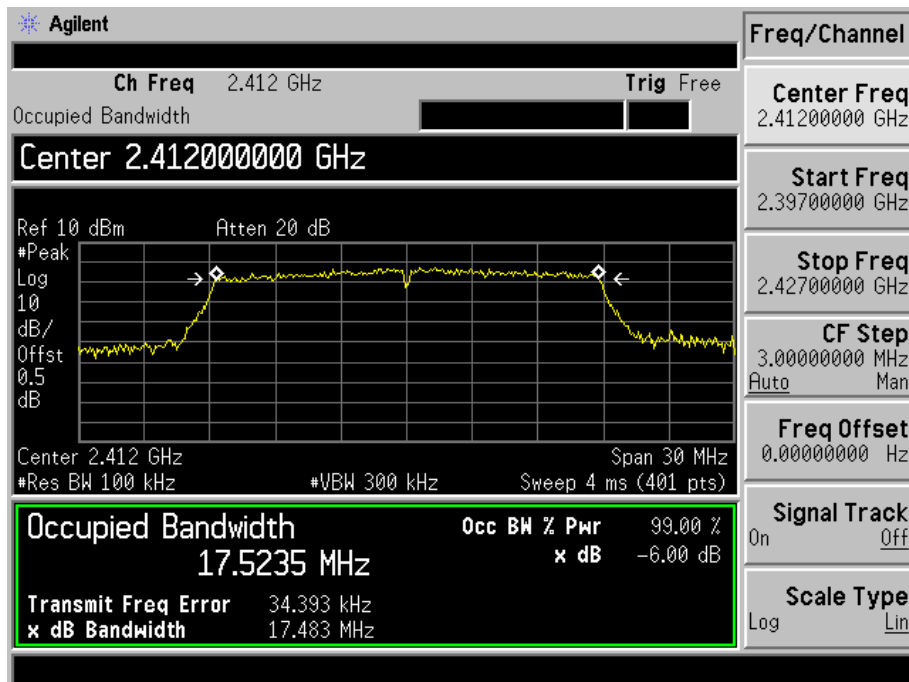
802.11g-Middle Channel



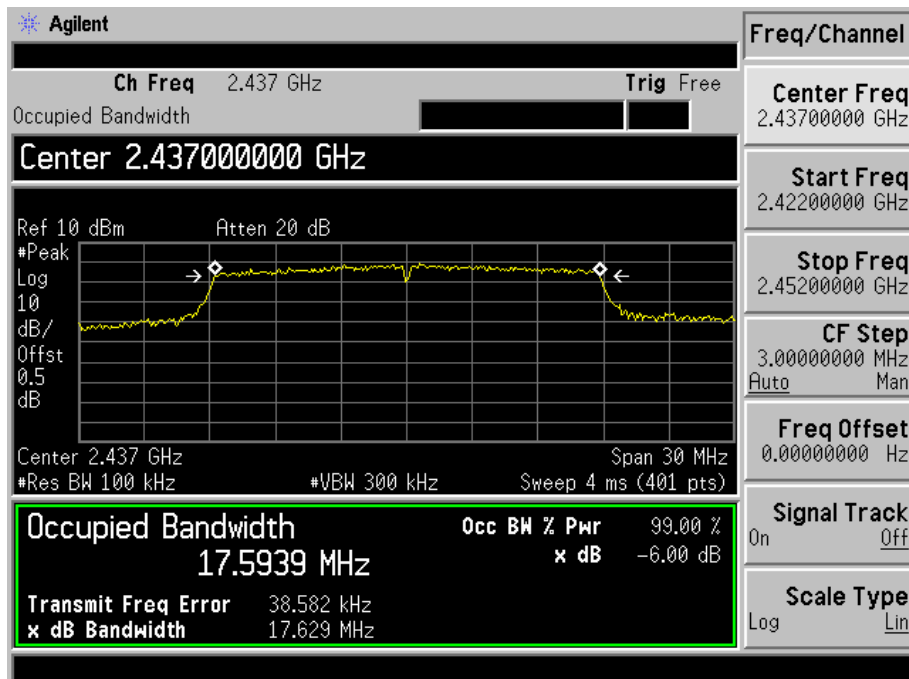
802.11g-High Channel



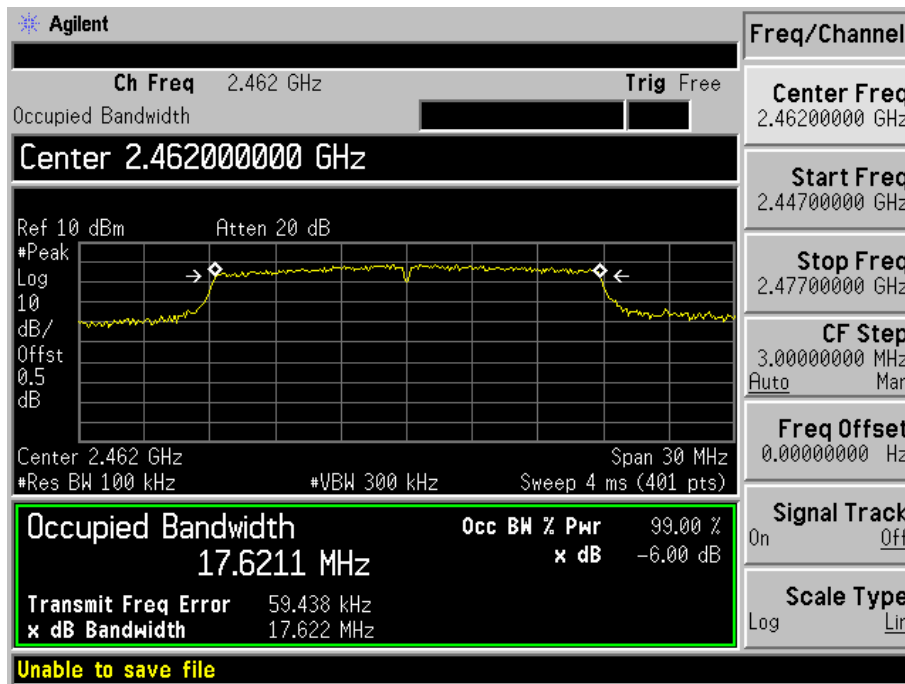
802.11n-HT20-Low Channel



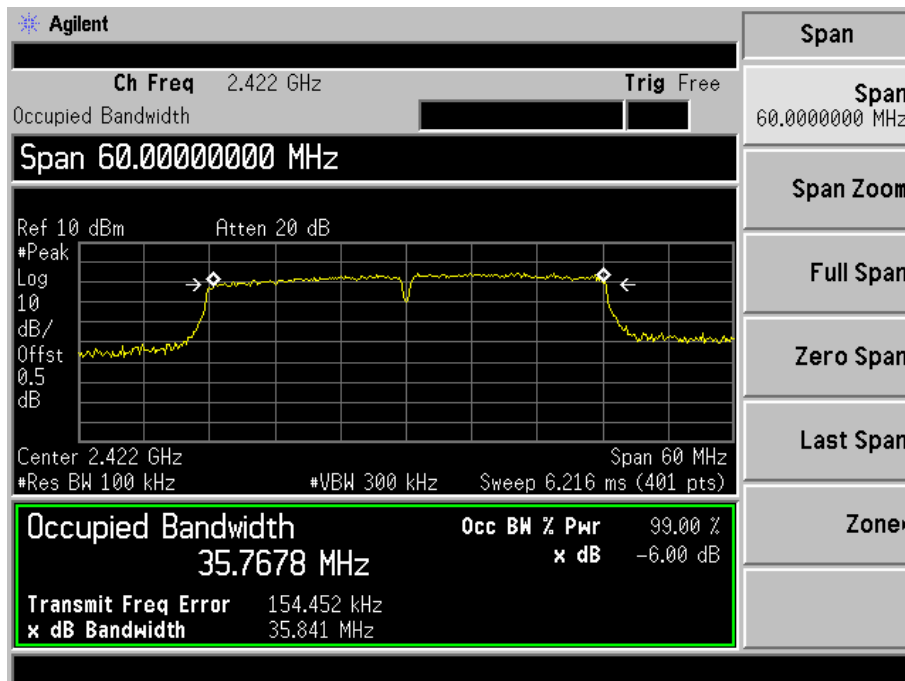
802.11n-HT20-Middle Channel



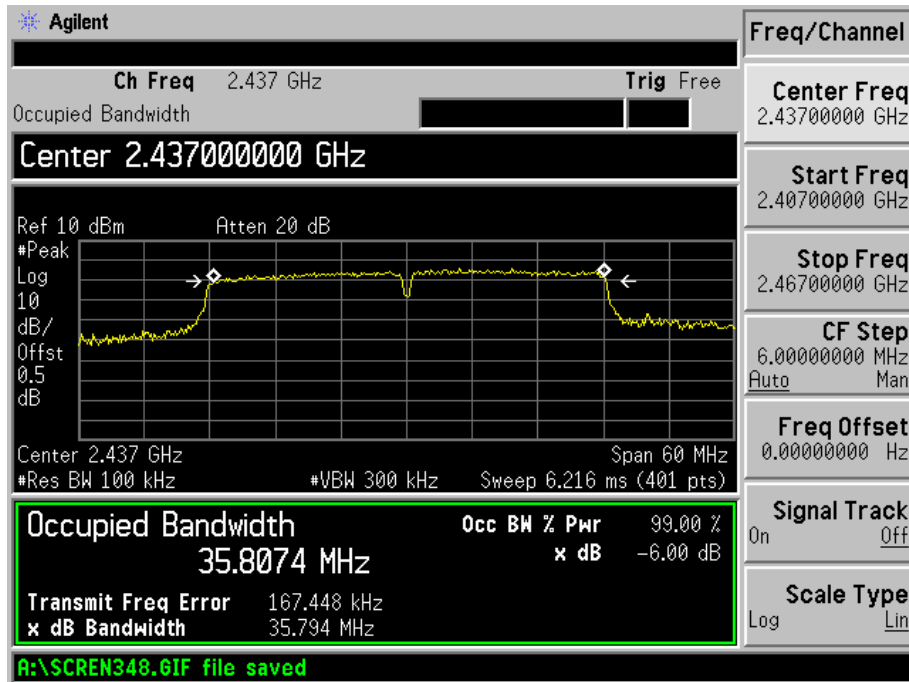
802.11n-HT20-High Channel



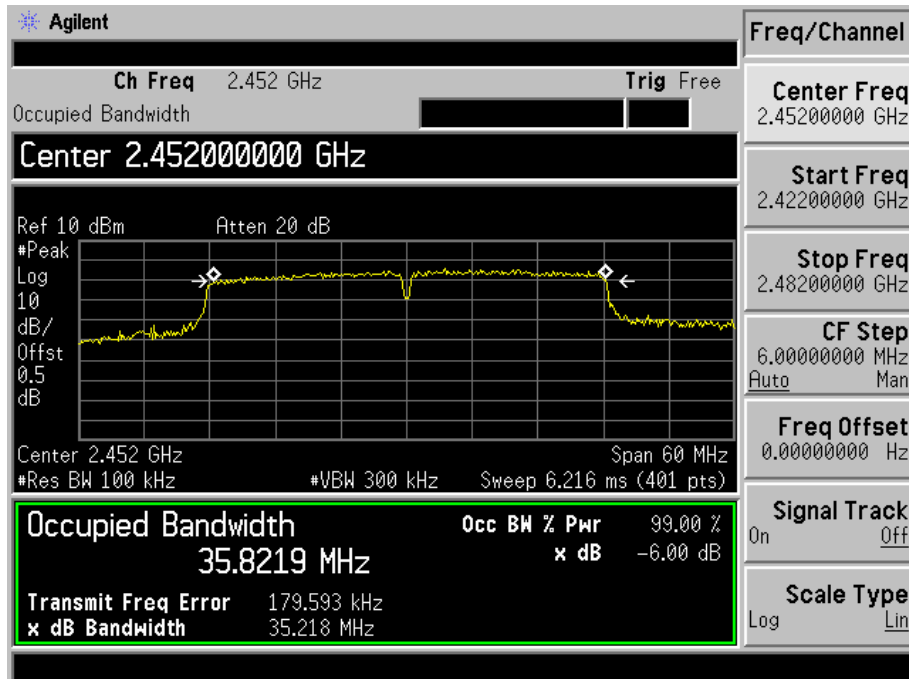
802.11n-HT40-Low Channel



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 the KDB-558074 D01 v04, 9.2.2.2, 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

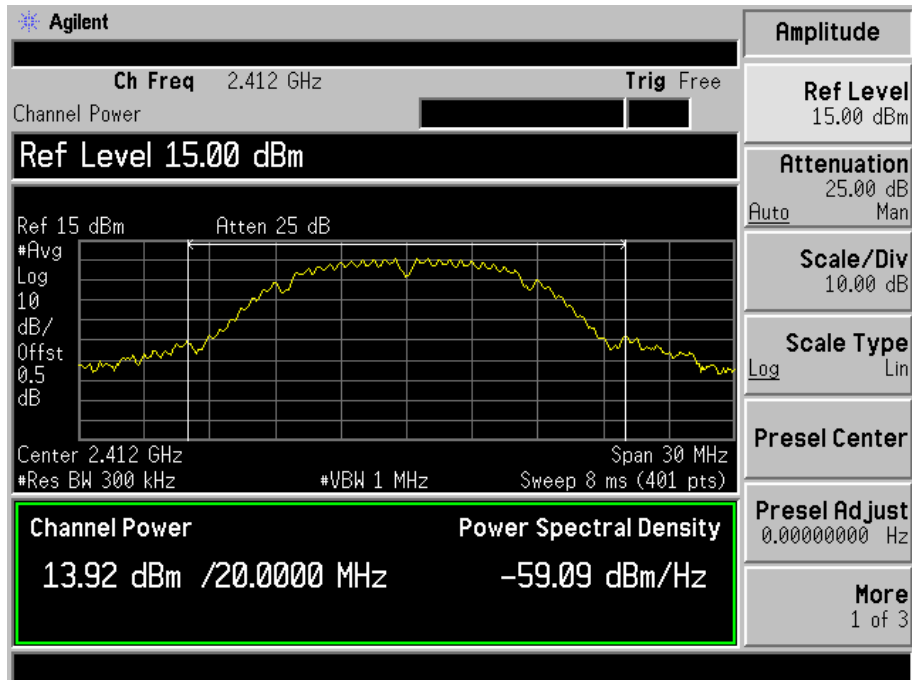
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.4 Summary of Test Results/Plots

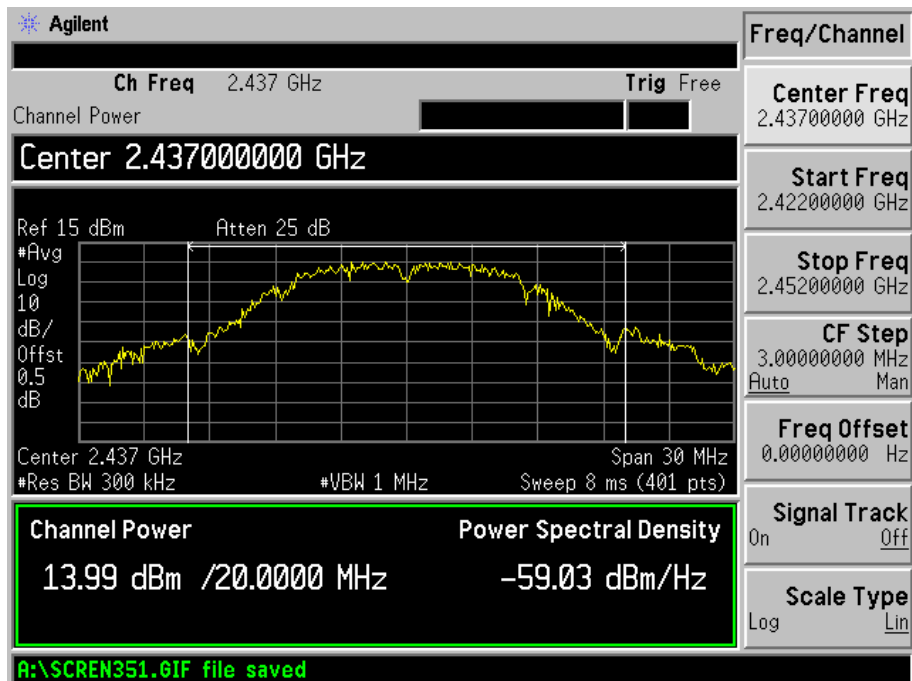
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	13.92	24.660	1000
	2437	13.99	25.061	1000
	2462	14.11	25.763	1000
802.11g_54Mbps	2412	11.89	15.453	1000
	2437	12.27	16.866	1000
	2462	11.87	15.382	1000
802.11n HT20_MCS7	2412	12.35	17.179	1000
	2437	11.97	15.740	1000
	2462	12.11	16.255	1000
802.11n HT40_MCS7	2422	10.21	10.495	1000
	2437	10.71	11.776	1000
	2452	10.52	11.272	1000

Please refer to the following test plots:

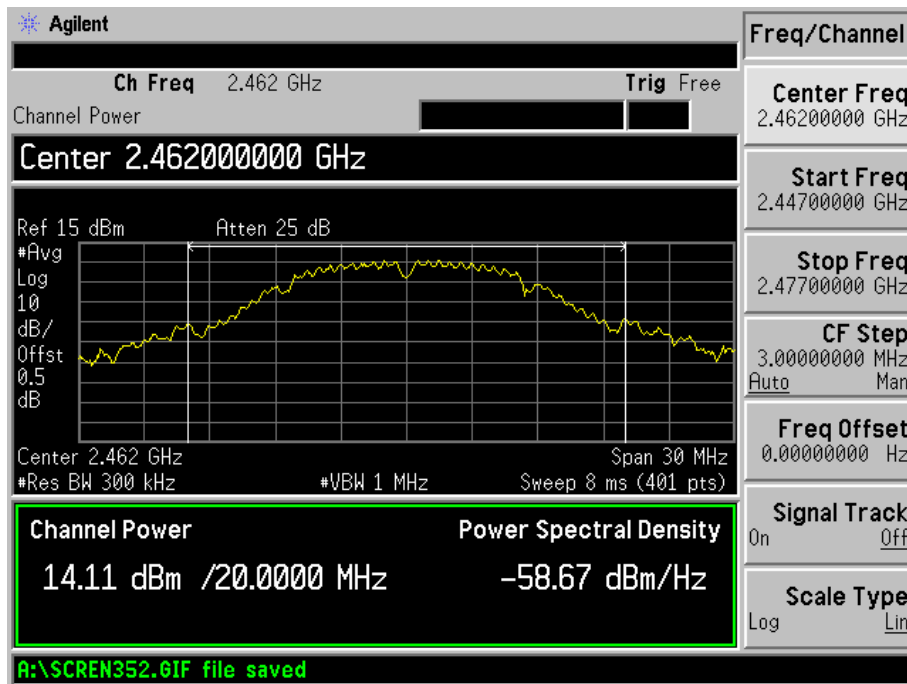
802.11b-11Mbps-Low Channel



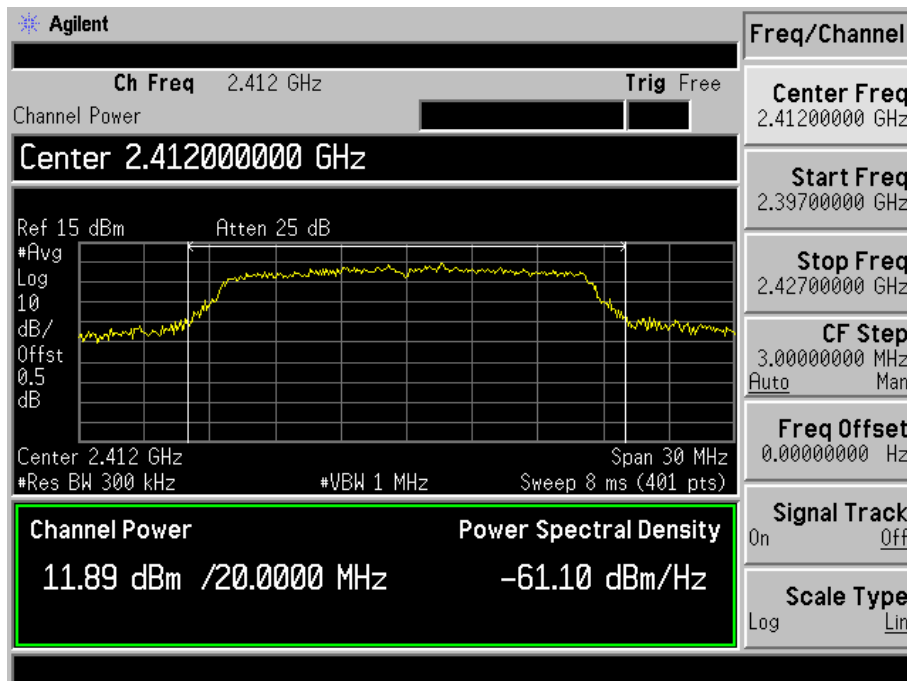
802.11b -11Mbps-Middle Channel



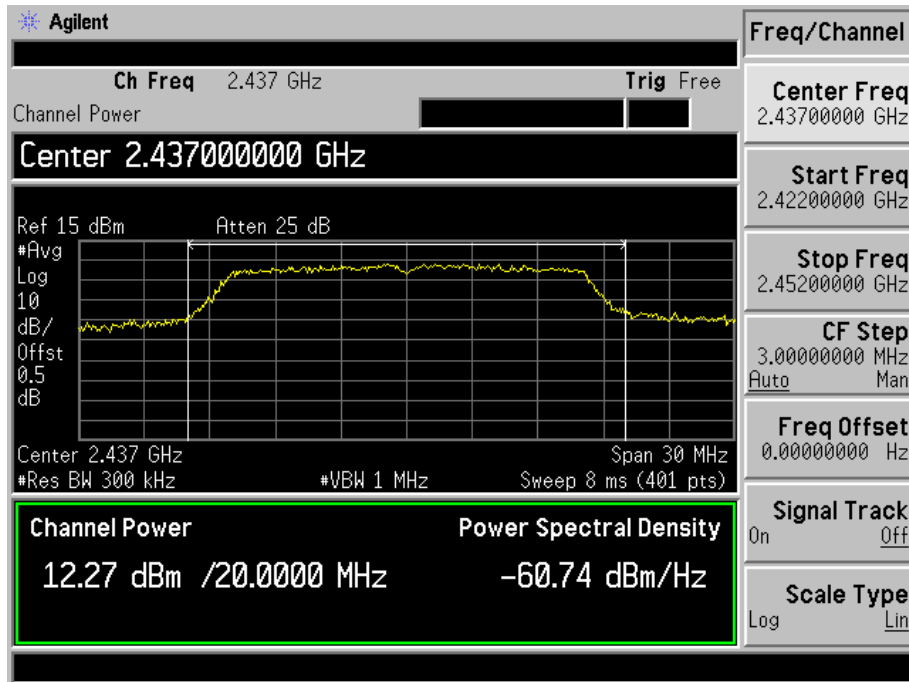
802.11b -11Mbps-High Channel



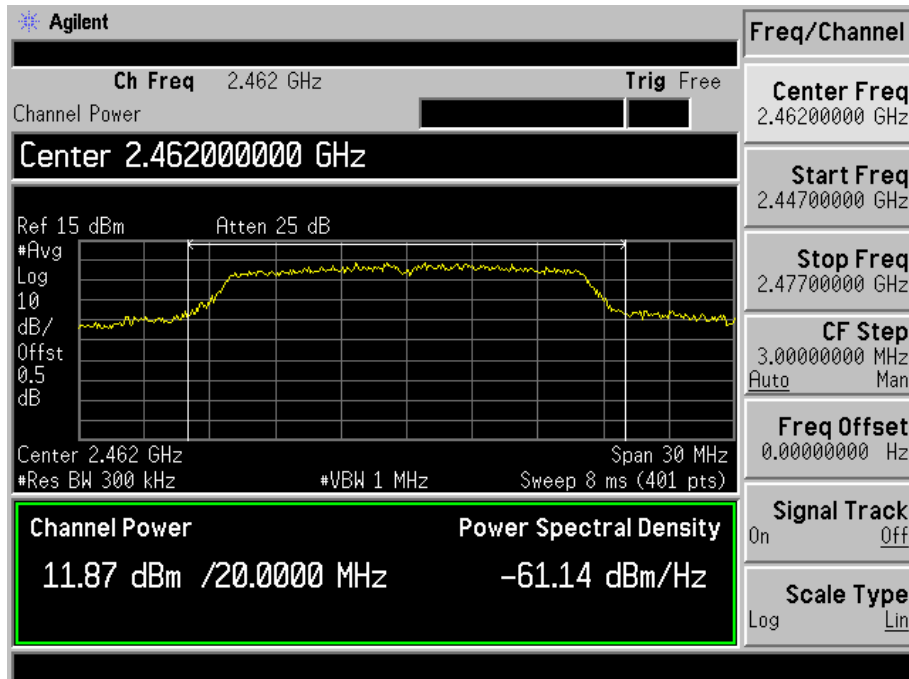
802.11g-54Mbps-Low Channel



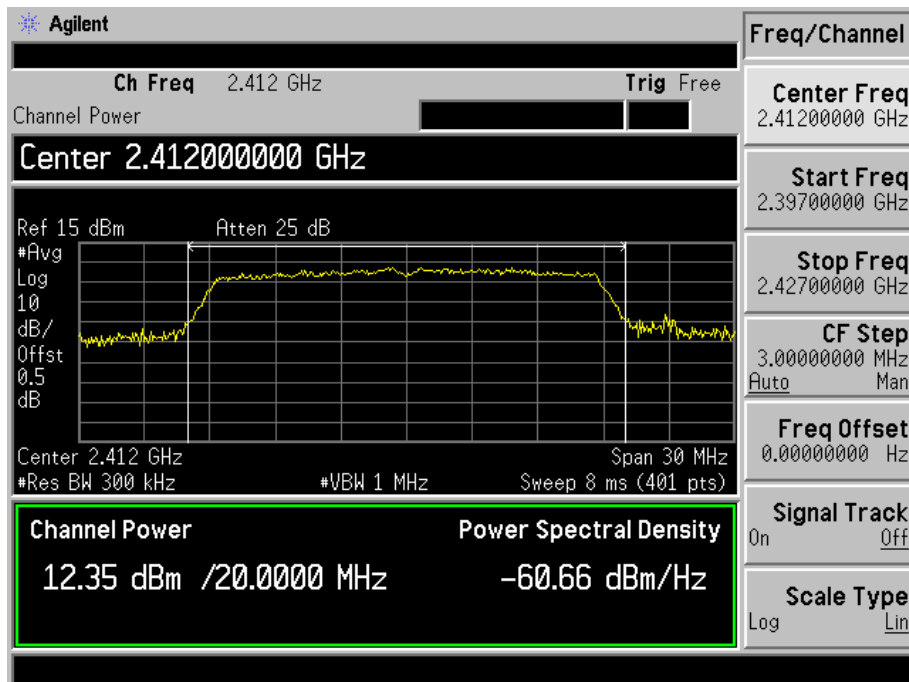
802.11g-54Mbps-Middle Channel



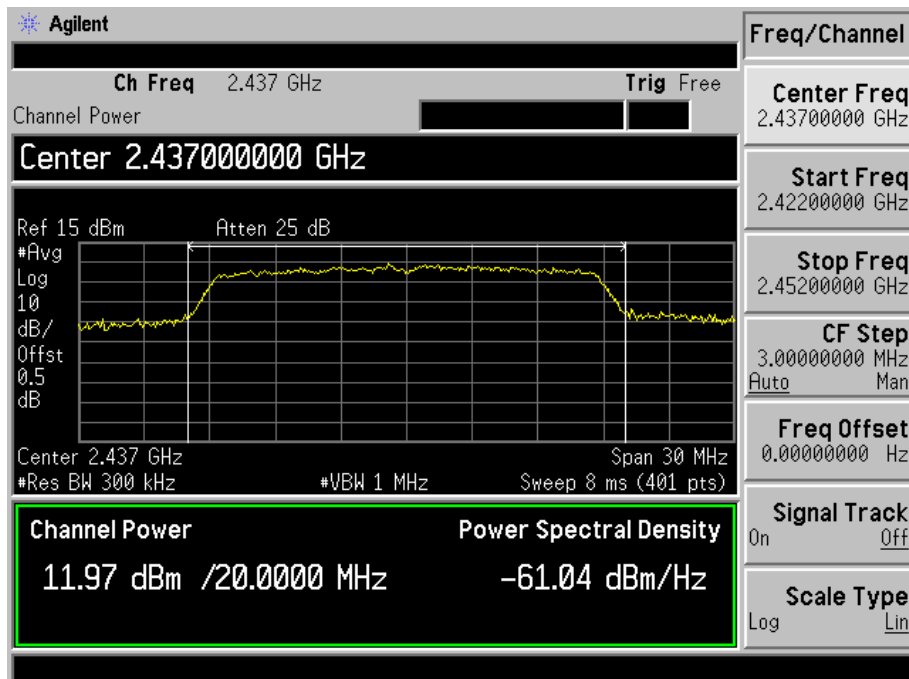
802.11g-54Mbps-High Channel



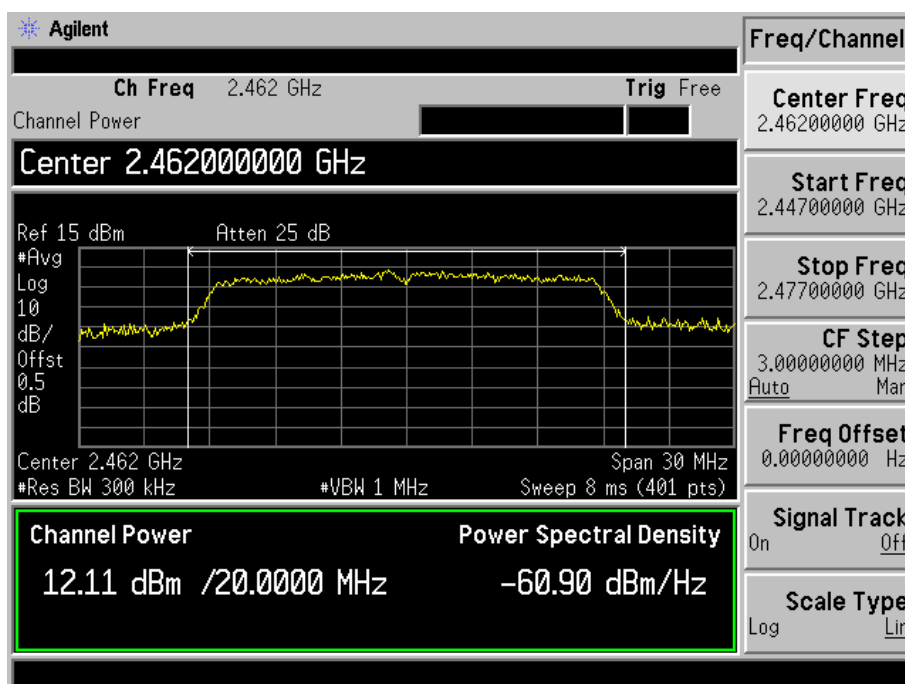
802.11n-HT20-MCS7-Low Channel



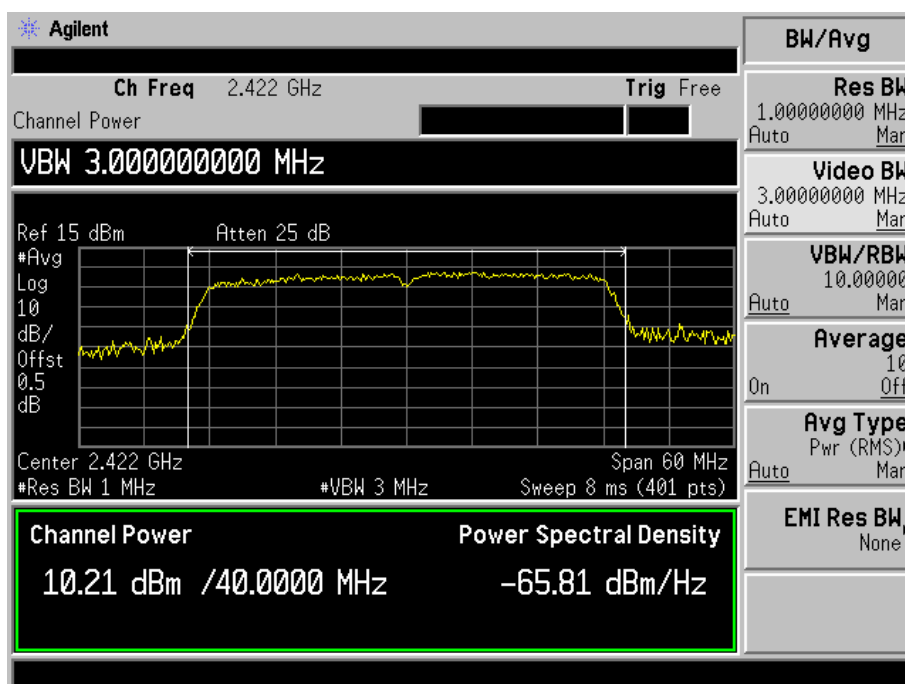
802.11n-HT20-MCS7-Middle Channel



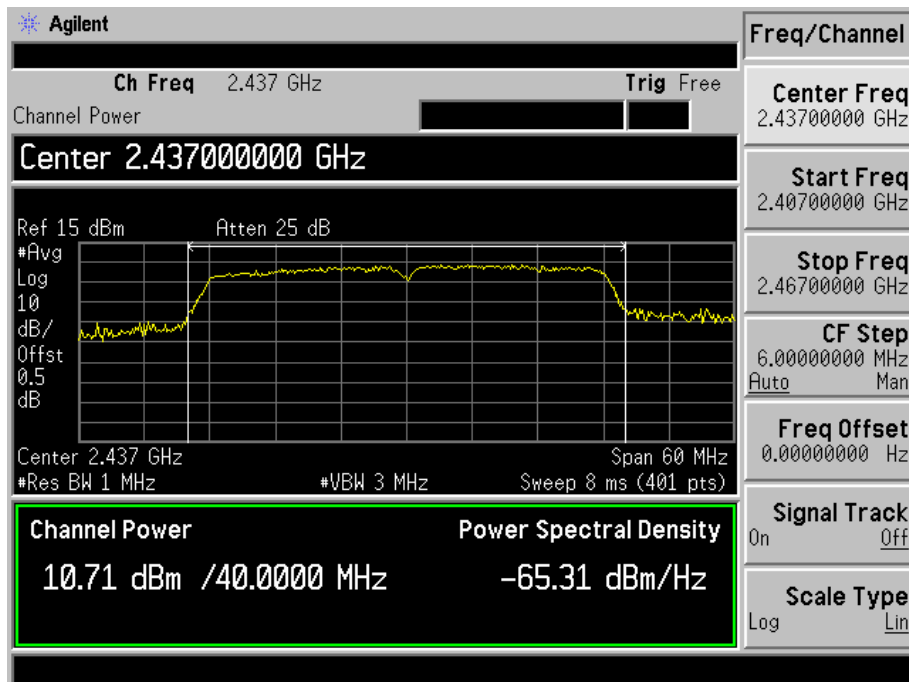
802.11n-HT20-MCS7-High Channel



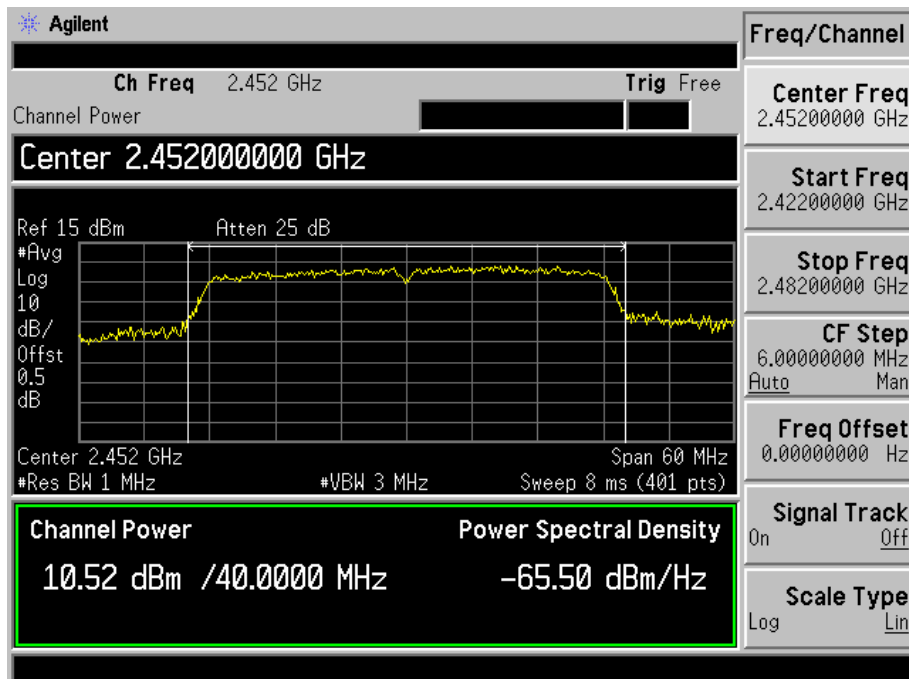
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Standard Applicable

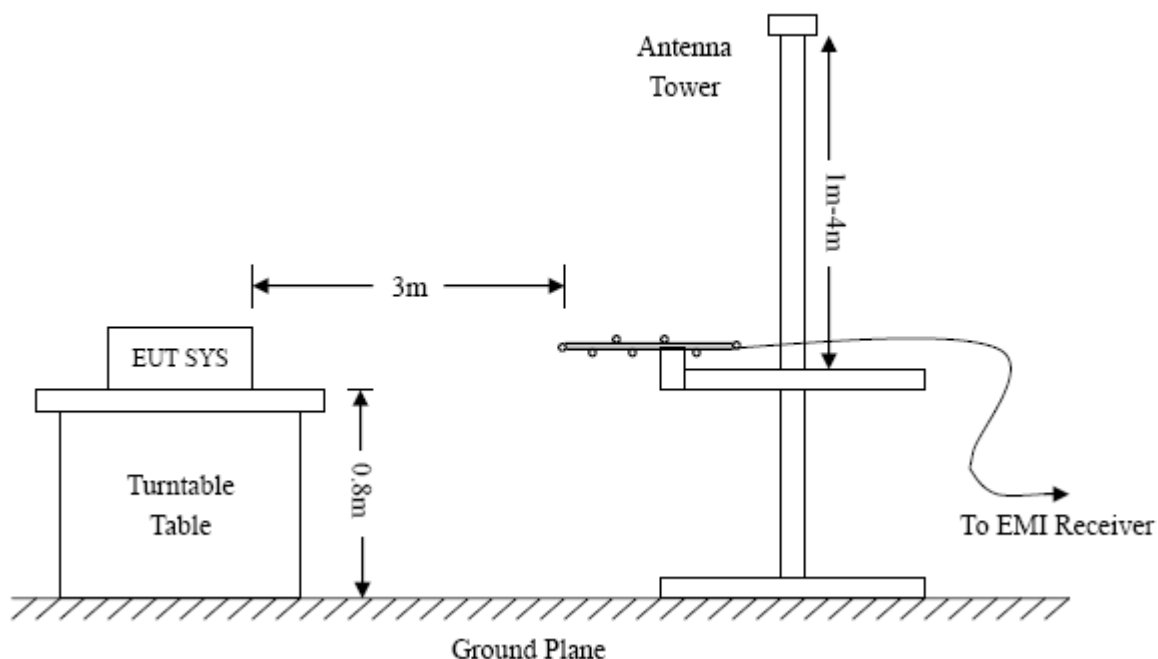
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within 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).

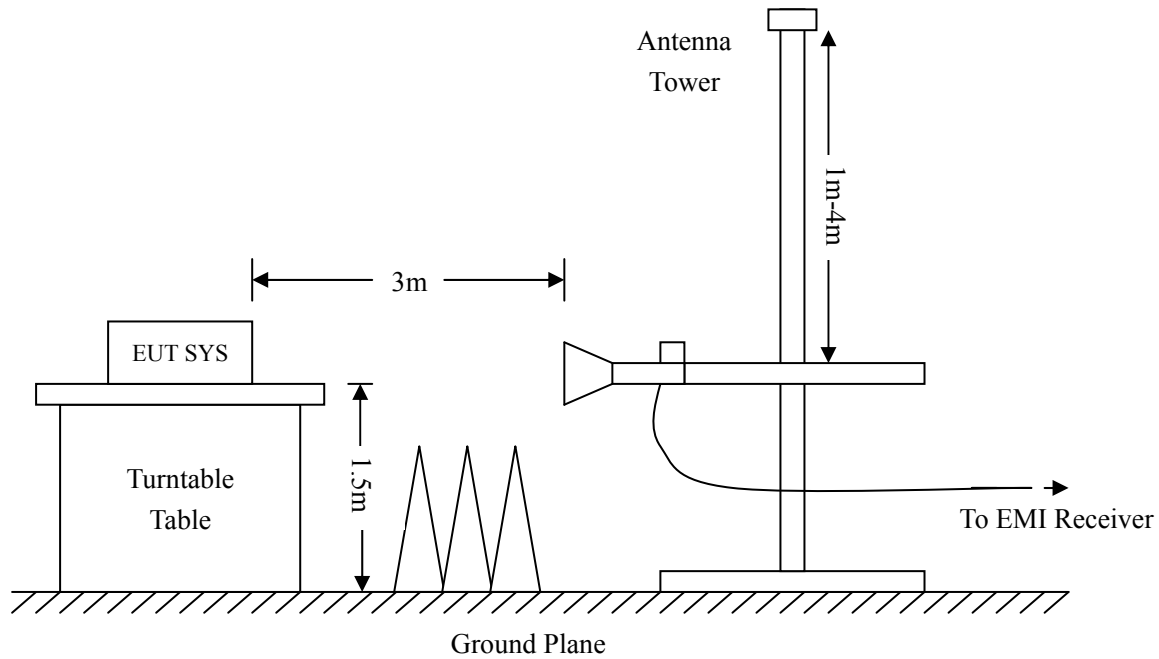
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 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=360KHz

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

8.3 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:

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

8.4 Environmental Conditions

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

8.5 Summary of Test Results/Plots

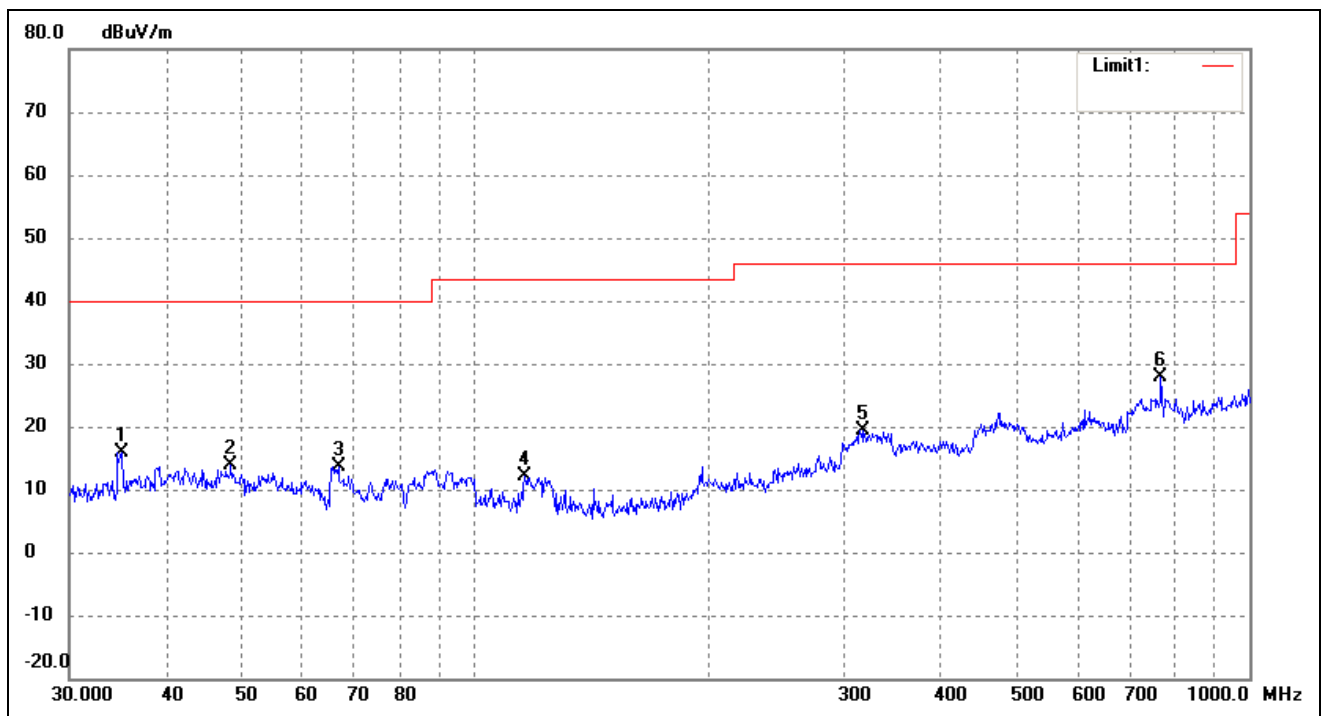
According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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

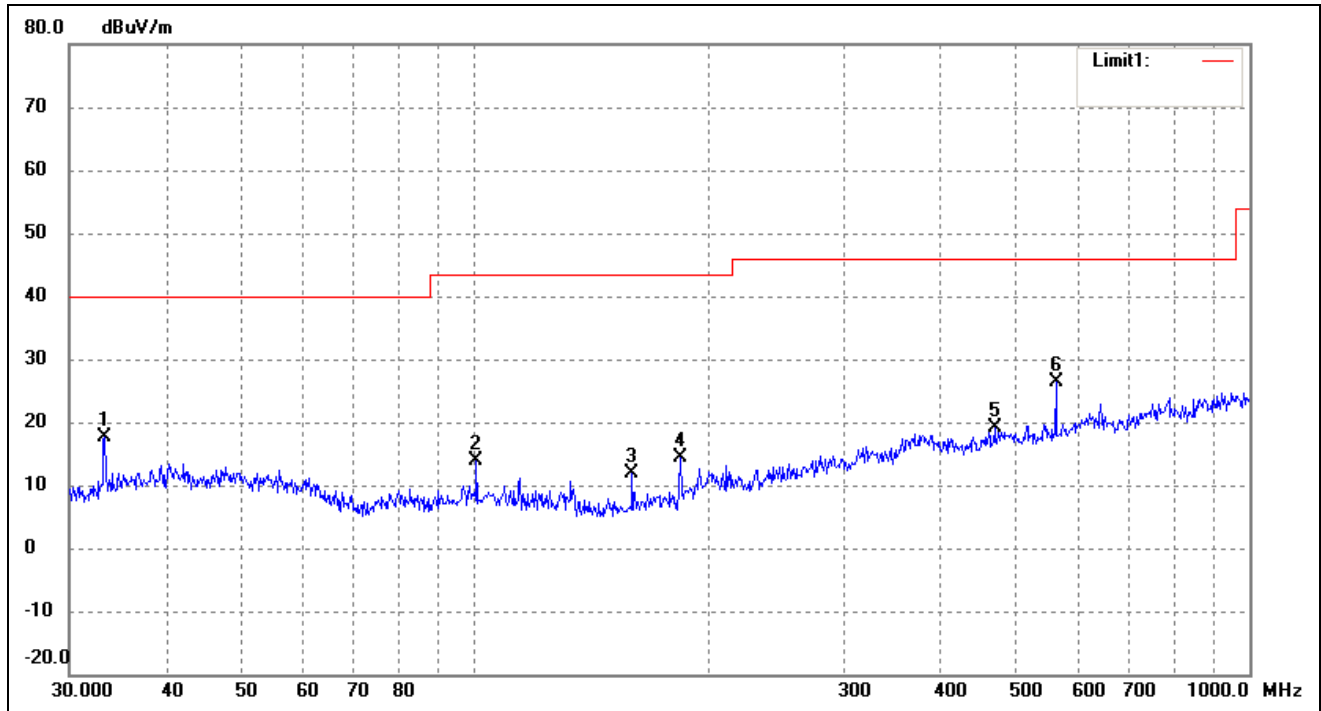
EUT: 4G Smart Phone
Tested Model: AM530
Operating Condition: 802.11b Transmitting
Comment: DC 3.8V

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	35.1278	24.96	-9.01	15.95	40.00	-24.05	250	100	peak
2	48.5016	22.09	-8.22	13.87	40.00	-26.13	317	100	peak
3	66.7325	25.34	-11.77	13.57	40.00	-26.43	63	100	peak
4	116.1321	23.54	-11.33	12.21	43.50	-31.29	156	100	peak
5	317.7011	24.18	-4.74	19.44	46.00	-26.56	64	100	peak
6	768.7482	25.64	2.28	27.92	46.00	-18.08	93	100	peak

Test Specification: Vertical

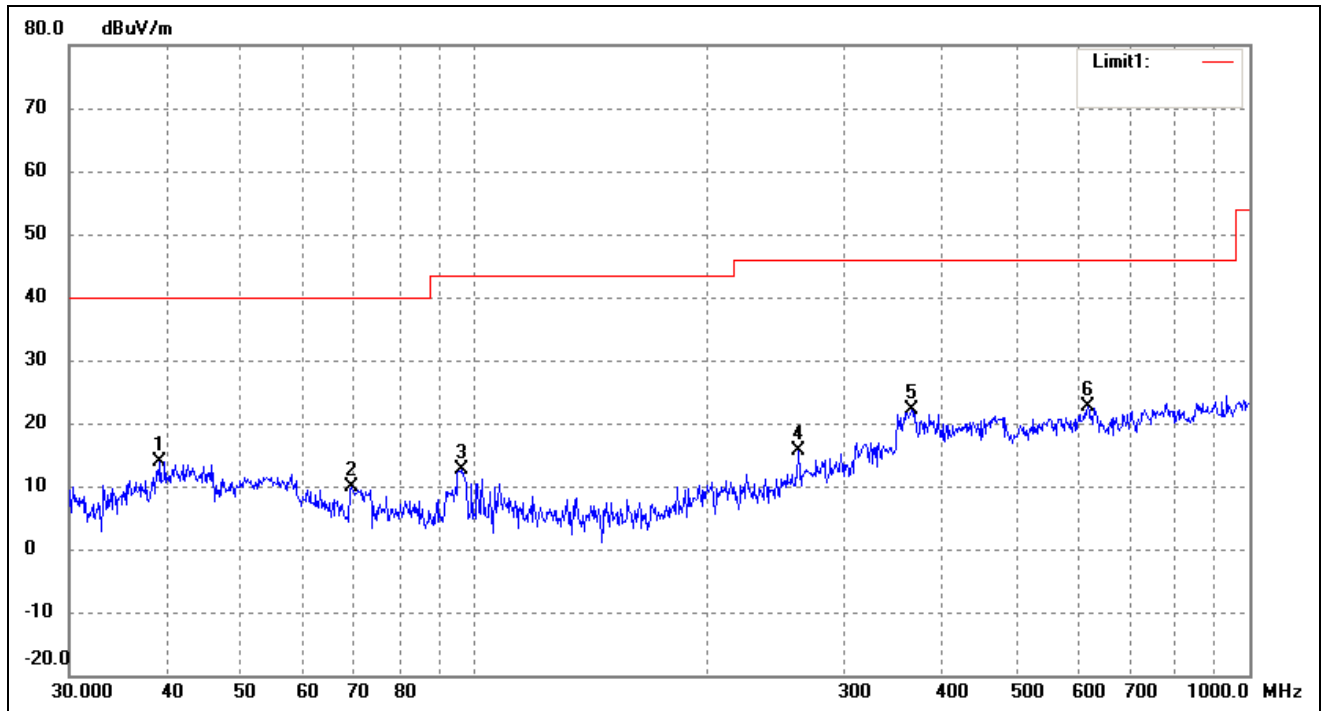


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	27.07	-9.46	17.61	40.00	-22.39	112	100	peak
2	100.5806	24.77	-10.92	13.85	43.50	-29.65	328	100	peak
3	159.7844	24.05	-12.27	11.78	43.50	-31.72	83	100	peak
4	184.4898	25.07	-10.75	14.32	43.50	-29.18	179	100	peak
5	468.8762	21.08	-1.96	19.12	46.00	-26.88	75	100	peak
6	562.6624	27.69	-1.33	26.36	46.00	-19.64	130	100	peak

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

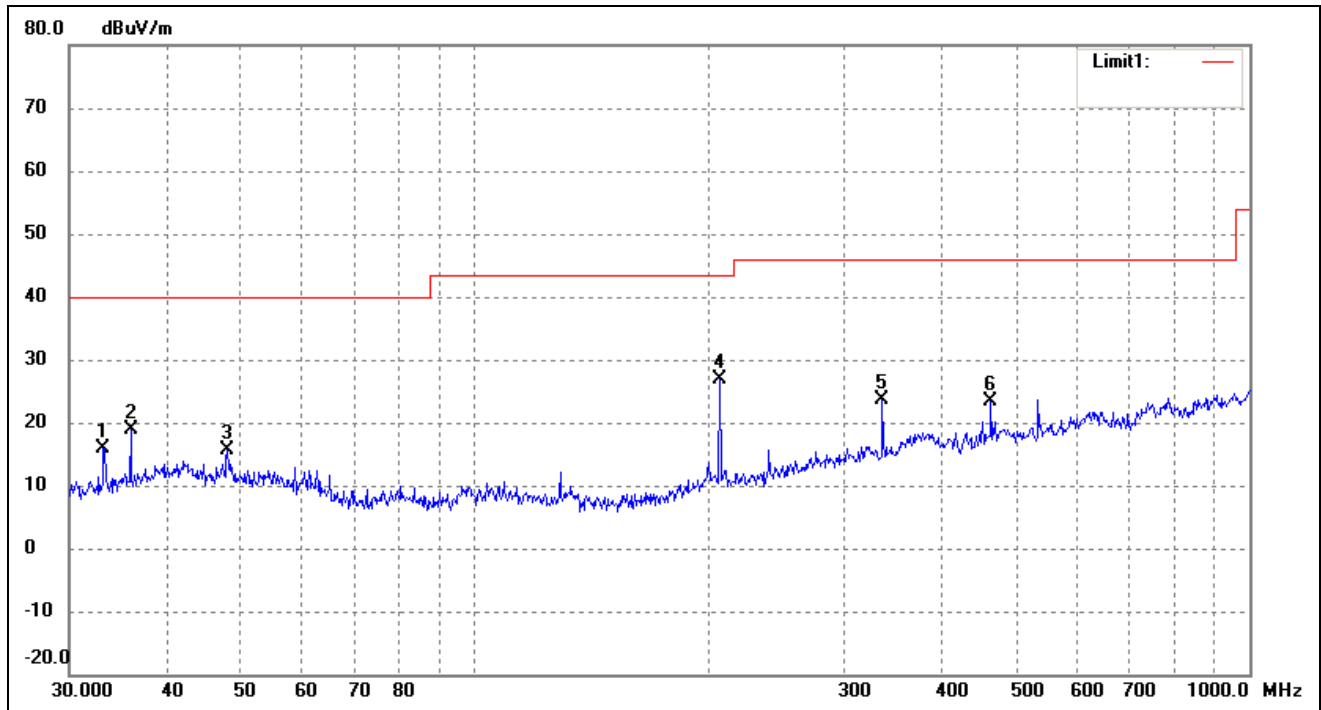
EUT: 4G Smart Phone
Tested Model: AM530
Operating Condition: 802.11g Transmitting
Comment: DC 3.8V

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	39.2991	21.69	-7.85	13.84	40.00	-26.16	175	100	peak
2	69.3568	22.52	-12.62	9.90	40.00	-30.10	181	100	peak
3	96.0986	24.24	-11.70	12.54	43.50	-30.96	89	100	peak
4	261.9753	22.42	-6.87	15.55	46.00	-30.45	93	100	peak
5	366.8231	24.87	-2.86	22.01	46.00	-23.99	226	100	peak
6	618.5369	21.37	1.14	22.51	46.00	-23.49	292	100	peak

Test Specification: Vertical

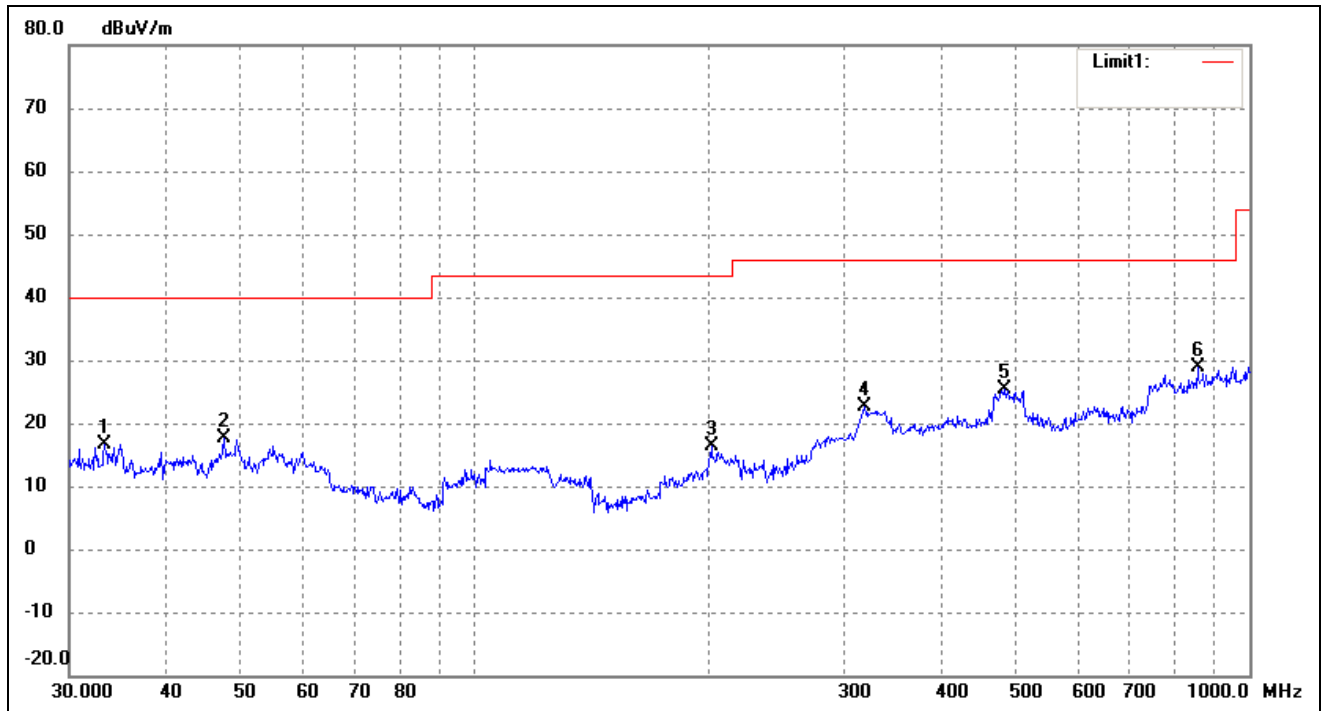


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.2112	25.37	-9.50	15.87	40.00	-24.13	69	100	peak
2	36.0007	27.53	-8.76	18.77	40.00	-21.23	138	100	peak
3	47.9940	23.87	-8.19	15.68	40.00	-24.32	75	100	peak
4	207.1226	35.60	-8.72	26.88	43.50	-16.62	121	100	peak
5	336.0352	28.66	-4.91	23.75	46.00	-22.25	201	100	peak
6	463.9696	25.70	-2.36	23.34	46.00	-22.66	314	100	peak

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

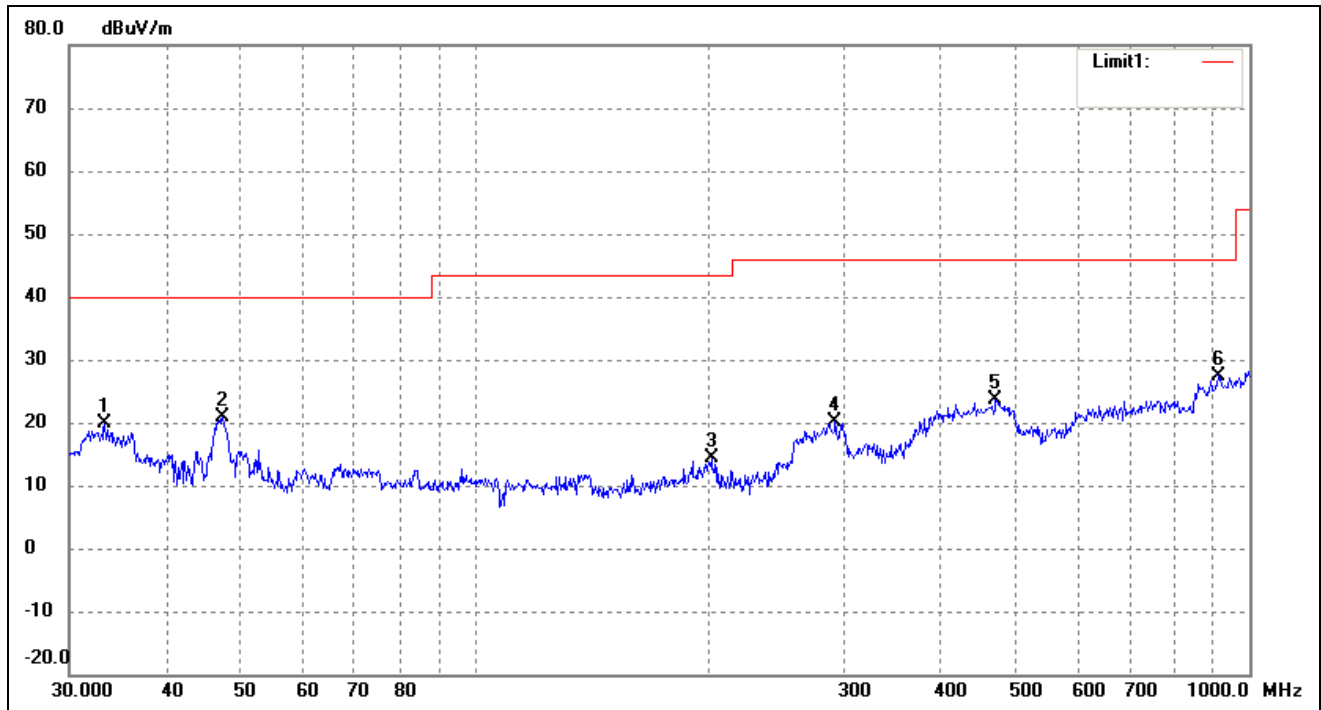
EUT: 4G Smart Phone
Tested Model: AM530
Operating Condition: 802.11n-HT20 Transmitting
Comment: DC 3.8V

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	33.3279	26.21	-9.46	16.75	40.00	-23.25	166	100	peak
2	47.4918	25.91	-8.16	17.75	40.00	-22.25	160	100	peak
3	202.1005	24.98	-8.66	16.32	43.50	-27.18	72	100	peak
4	318.8170	27.40	-4.68	22.72	46.00	-23.28	154	100	peak
5	482.2156	26.48	-1.17	25.31	46.00	-20.69	183	100	peak
6	857.0247	26.04	2.78	28.82	46.00	-17.18	204	100	peak

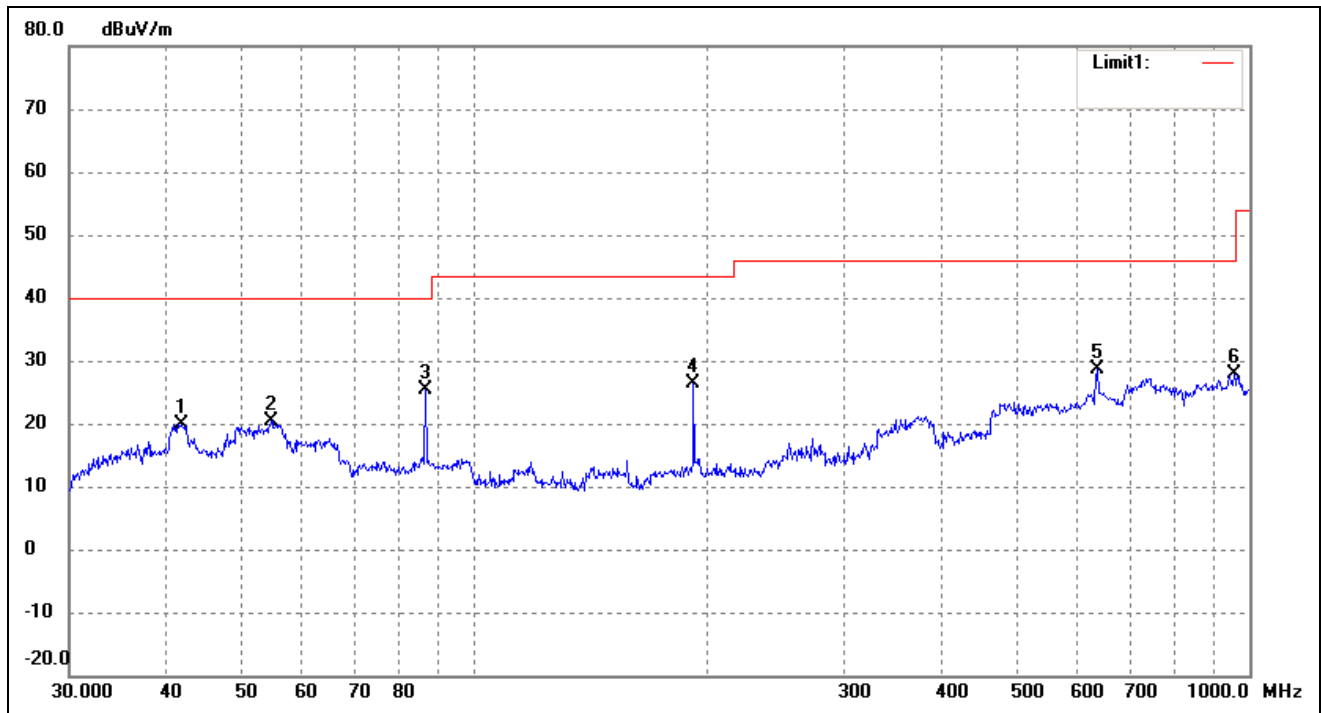
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	29.45	-9.46	19.99	40.00	-20.01	231	100	peak
2	47.3255	28.91	-8.15	20.76	40.00	-19.24	330	100	peak
3	202.1005	23.05	-8.66	14.39	43.50	-29.11	53	100	peak
4	292.0583	25.85	-5.83	20.02	46.00	-25.98	224	100	peak
5	470.5232	25.57	-1.82	23.75	46.00	-22.25	106	100	peak
6	912.8620	24.01	3.49	27.50	46.00	-18.50	239	100	peak

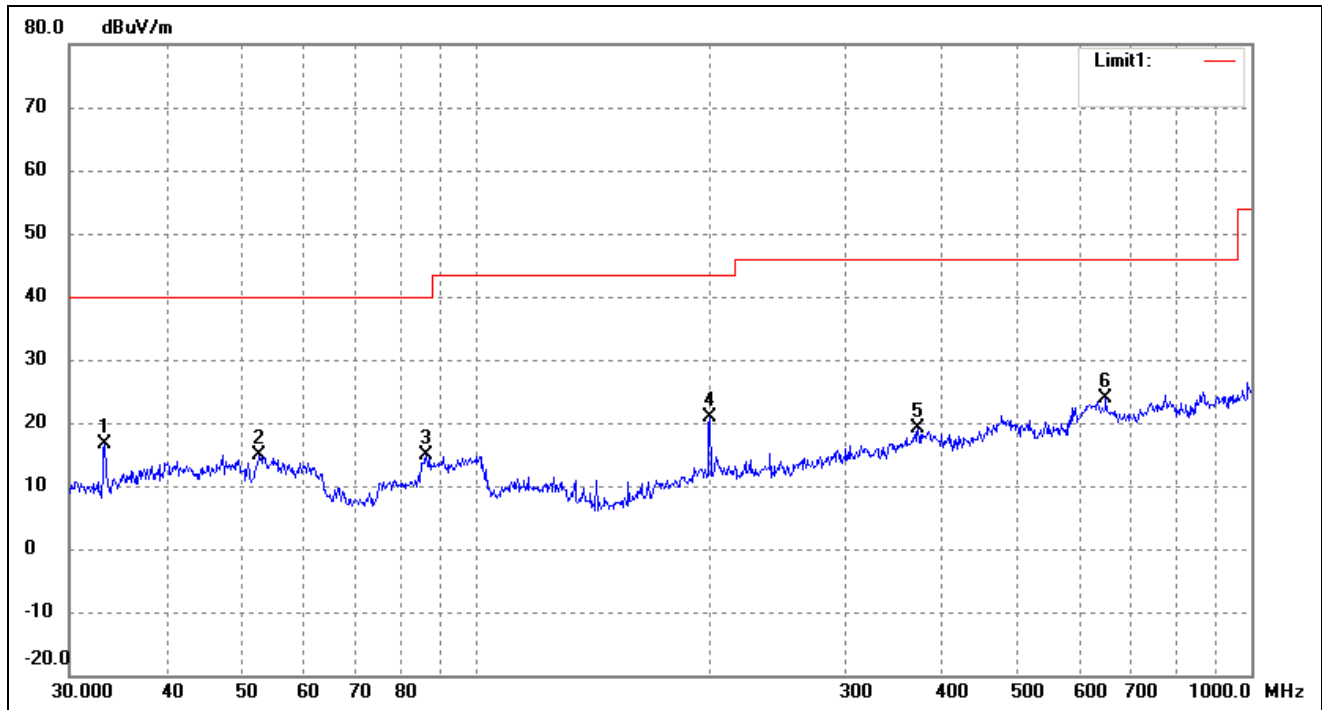
EUT: 4G Smart Phone
Tested Model: AM530
Operating Condition: 802.11n-HT40 Transmitting
Comment: DC 3.8V

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	41.8596	27.63	-7.79	19.84	40.00	-20.16	327	100	peak
2	54.6429	29.33	-8.91	20.42	40.00	-19.58	91	100	peak
3	86.5029	38.03	-12.62	25.41	40.00	-14.59	206	100	peak
4	191.7450	36.04	-9.77	26.27	43.50	-17.23	102	100	peak
5	636.1340	27.82	0.82	28.64	46.00	-17.36	113	100	peak
6	955.4381	24.09	3.73	27.82	46.00	-18.18	291	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	33.3279	26.05	-9.46	16.59	40.00	-23.41	216	100	peak
2	52.7600	23.50	-8.67	14.83	40.00	-25.17	96	100	peak
3	86.5029	27.49	-12.62	14.87	40.00	-25.13	106	100	peak
4	200.6881	29.57	-8.66	20.91	43.50	-22.59	98	100	peak
5	372.0045	21.81	-2.56	19.25	46.00	-26.75	186	100	peak
6	649.6597	23.35	0.52	23.87	46.00	-22.13	156	100	peak

Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	53.64	-3.86	49.78	74	-24.22	H	PK
4824.000	40.91	-3.86	37.05	54	-16.95	H	AV
7236.000	58.18	1.1	59.28	74	-14.72	H	PK
7236.000	42.73	1.1	43.83	54	-10.17	H	AV
4824.000	60.00	-3.86	56.14	74	-17.86	V	PK
4824.000	40.00	-3.86	36.14	54	-17.86	V	AV
7236.000	57.27	1.1	58.37	74	-15.63	V	PK
7236.000	41.82	1.1	42.92	54	-11.08	V	AV
Middle Channel-2437MHz							
4874.000	56.36	-3.74	52.62	74	-21.38	H	PK
4874.000	47.27	-3.74	43.53	54	-10.47	H	AV
7311.000	59.09	1.47	60.56	74	-13.44	H	PK
7311.000	40.00	1.47	41.47	54	-12.53	H	AV
4874.000	56.36	-3.74	52.62	74	-21.38	V	PK
4874.000	48.18	-3.74	44.44	54	-9.56	V	AV
7311.000	53.64	1.47	55.11	74	-18.89	V	PK
7311.000	42.73	1.47	44.20	54	-9.80	V	AV
High Channel-2462MHz							
4924.000	58.18	-3.63	54.55	74	-19.45	H	PK
4924.000	43.64	-3.63	40.01	54	-13.99	H	AV
7386.000	54.55	1.62	56.17	74	-17.83	H	PK
7386.000	42.73	1.62	44.35	54	-9.65	H	AV
4924.000	53.64	-3.63	50.01	74	-23.99	V	PK
4924.000	44.55	-3.63	40.92	54	-13.08	V	AV
7386.000	56.36	1.62	57.98	74	-16.02	V	PK
7386.000	40.00	1.62	41.62	54	-12.38	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	53.64	-3.86	49.78	74	-24.22	H	PK
4824.000	48.18	-3.86	44.32	54	-9.68	H	AV
7236.000	56.36	1.1	57.46	74	-16.54	H	PK
7236.000	49.09	1.1	50.19	54	-3.81	H	AV
4824.000	56.36	-3.86	52.50	74	-21.50	V	PK
4824.000	49.09	-3.86	45.23	54	-8.77	V	AV
7236.000	53.64	1.1	54.74	74	-19.26	V	PK
7236.000	40.91	1.1	42.01	54	-11.99	V	AV
Middle Channel-2437MHz							
4874.000	57.27	-3.74	53.53	74	-20.47	H	PK
4874.000	49.09	-3.74	45.35	54	-8.65	H	AV
7311.000	57.27	1.47	58.74	74	-15.26	H	PK
7311.000	41.82	1.47	43.29	54	-10.71	H	AV
4874.000	57.27	-3.74	53.53	74	-20.47	V	PK
4874.000	40.00	-3.74	36.26	54	-17.74	V	AV
7311.000	54.55	1.47	56.02	74	-17.98	V	PK
7311.000	46.36	1.47	47.83	54	-6.17	V	AV
High Channel-2462MHz							
4924.000	59.09	-3.59	55.50	74	-18.50	H	PK
4924.000	45.45	-3.59	41.86	54	-12.14	H	AV
7386.000	55.45	1.79	57.24	74	-16.76	H	PK
7386.000	40.00	1.79	41.79	54	-12.21	H	AV
4924.000	58.18	-3.59	54.59	74	-19.41	V	PK
4924.000	43.64	-3.59	40.05	54	-13.95	V	AV
7386.000	55.45	1.79	57.24	74	-16.76	V	PK
7386.000	40.91	1.79	42.70	54	-11.30	V	AV

Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	52.73	-3.87	48.86	74	-25.14	H	PK
4824.000	45.45	-3.87	41.58	54	-12.42	H	AV
7236.000	53.64	1.14	54.78	74	-19.22	H	PK
7236.000	45.45	1.19	46.64	54	-7.36	H	AV
4824.000	60.00	-3.86	56.14	74	-17.86	V	PK
4824.000	50.00	-3.86	46.14	54	-7.86	V	AV
7236.000	52.73	1.1	53.83	74	-20.17	V	PK
7236.000	46.36	1.1	47.46	54	-6.54	V	AV
Middle Channel-2437MHz							
4874.000	58.18	-3.74	54.44	74	-19.56	H	PK
4874.000	46.36	-3.74	42.62	54	-11.38	H	AV
7311.000	52.73	1.47	54.20	74	-19.80	H	PK
7311.000	48.18	1.47	49.65	54	-4.35	H	AV
4874.000	54.55	-3.74	50.81	74	-23.19	V	PK
4874.000	44.55	-3.74	40.81	54	-13.19	V	AV
7311.000	56.36	1.47	57.83	74	-16.17	V	PK
7311.000	45.45	1.47	46.92	54	-7.08	V	AV
High Channel-2462MHz							
4924.000	57.27	-3.59	53.68	74	-20.32	H	PK
4924.000	40.00	-3.59	36.41	54	-17.59	H	AV
7386.000	52.73	1.79	54.52	74	-19.48	H	PK
7386.000	49.09	1.79	50.88	54	-3.12	H	AV
4924.000	58.18	-3.59	54.59	74	-19.41	V	PK
4924.000	41.82	-3.59	38.23	54	-15.77	V	AV
7386.000	55.45	1.79	57.24	74	-16.76	V	PK
7386.000	41.82	1.79	43.61	54	-10.39	V	AV

Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2422MHz							
4844.000	57.27	-3.87	53.40	74	-20.60	H	PK
4824.000	49.09	-3.87	45.22	54	-8.78	H	AV
7266.000	55.45	1.14	56.59	74	-17.41	H	PK
7266.000	45.45	1.19	46.64	54	-7.36	H	AV
4844.000	58.18	-3.86	54.32	74	-19.68	V	PK
4824.000	45.45	-3.86	41.59	54	-12.41	V	AV
7266.000	54.55	1.1	55.65	74	-18.35	V	PK
7266.000	40.00	1.1	41.10	54	-12.90	V	AV
Middle Channel-2437MHz							
4874.000	53.64	-3.74	49.90	74	-24.10	H	PK
4874.000	43.64	-3.74	39.90	54	-14.10	H	AV
7311.000	57.27	1.47	58.74	74	-15.26	H	PK
7311.000	40.91	1.47	42.38	54	-11.62	H	AV
4874.000	56.36	-3.74	52.62	74	-21.38	V	PK
4874.000	49.09	-3.74	45.35	54	-8.65	V	AV
7311.000	56.36	1.47	57.83	74	-16.17	V	PK
7311.000	44.55	1.47	46.02	54	-7.98	V	AV
High Channel-2452MHz							
4904.000	53.64	-3.59	50.05	74	-23.95	H	PK
4904.000	40.00	-3.59	36.41	54	-17.59	H	AV
7356.000	55.45	1.79	57.24	74	-16.76	H	PK
7356.000	45.45	1.79	47.24	54	-6.76	H	AV
4904.000	57.27	-3.59	53.68	74	-20.32	V	PK
4904.000	46.36	-3.59	42.77	54	-11.23	V	AV
7356.000	56.36	1.79	58.15	74	-15.85	V	PK
7356.000	41.82	1.79	43.61	54	-10.39	V	AV

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

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 v04, 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 v04, 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.

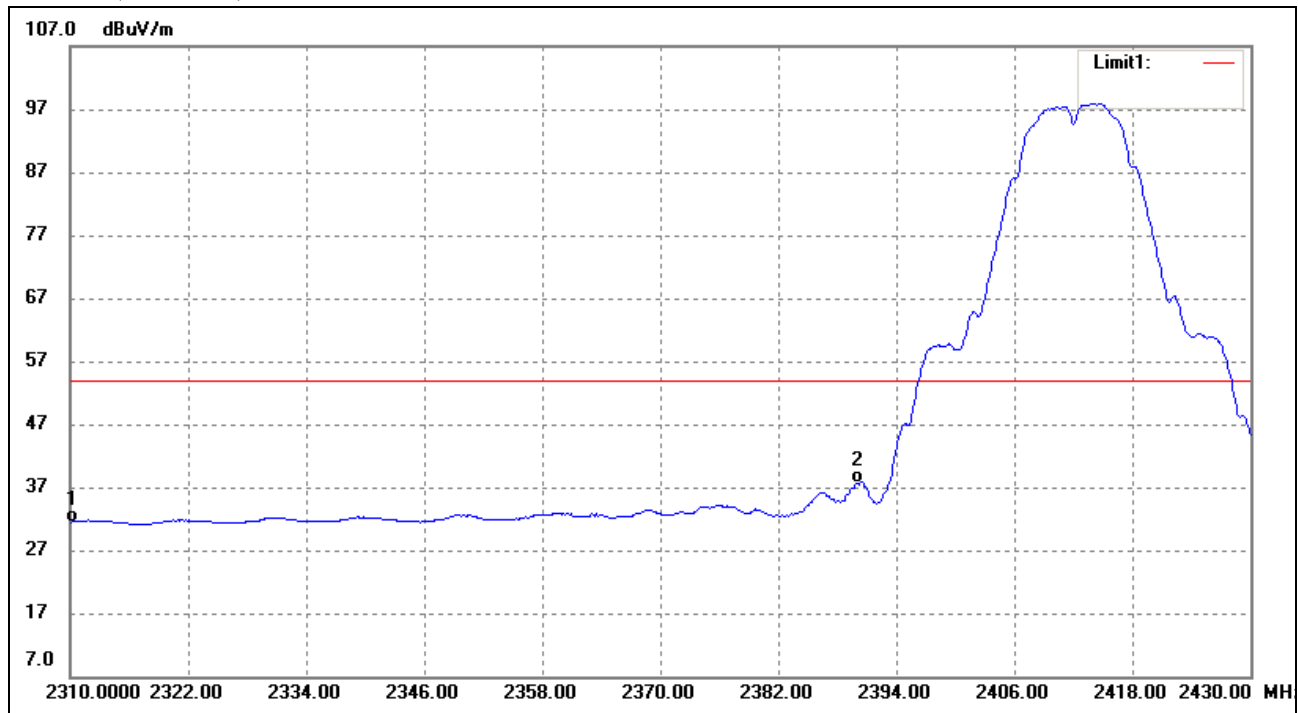
9.3 Environmental Conditions

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

9.4 Summary of Test Results/Plots

802.11b-Lowest Bandedge

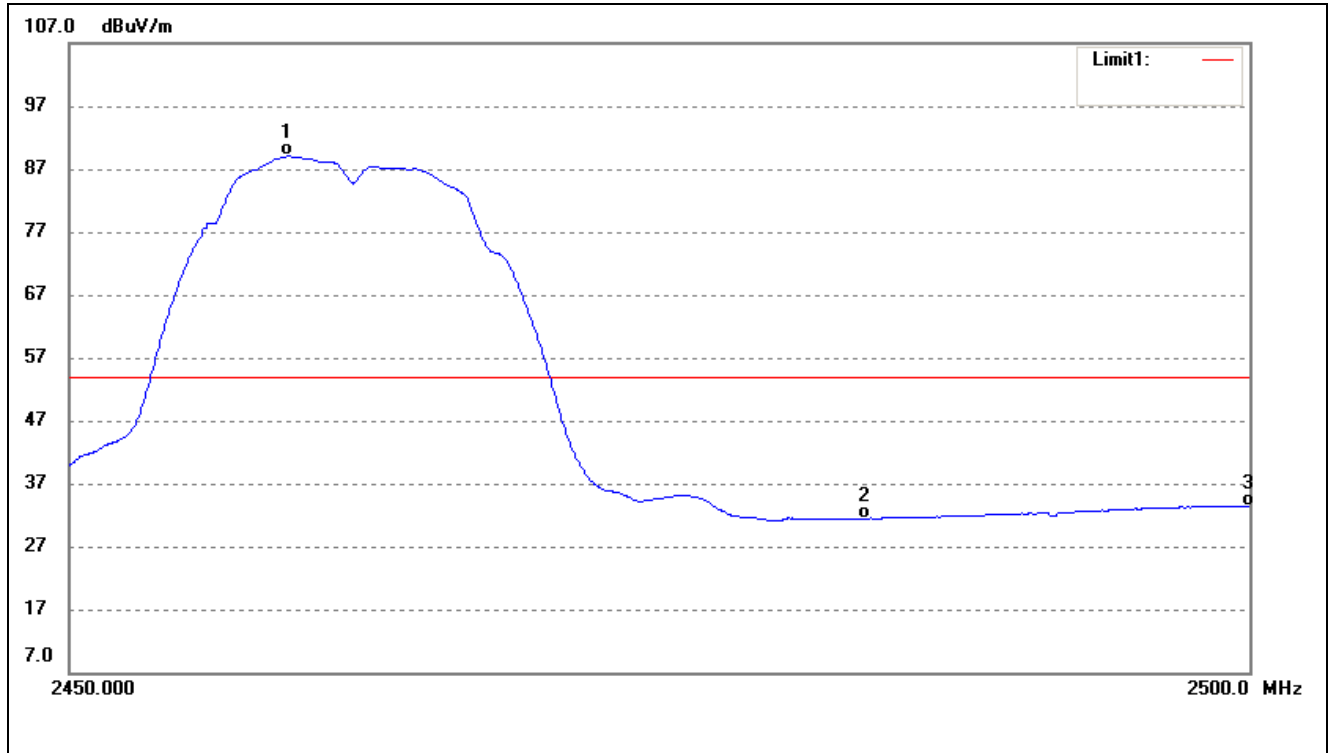
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	37.85	-6.38	31.47	54.00	-22.53	Average Detector
	2310.000	50.54	-6.38	44.16	74.00	-29.84	Peak Detector
2	2390.000	44.82	-7.26	37.56	54.00	-16.44	Average Detector
	2390.000	55.73	-7.26	48.47	74.00	-25.53	Peak Detector
3	2413.800	105.28	-7.40	97.88	/	/	Average Detector
	2413.440	110.84	-7.40	103.44	/	/	Peak Detector

802.11b-Highest Bandedge

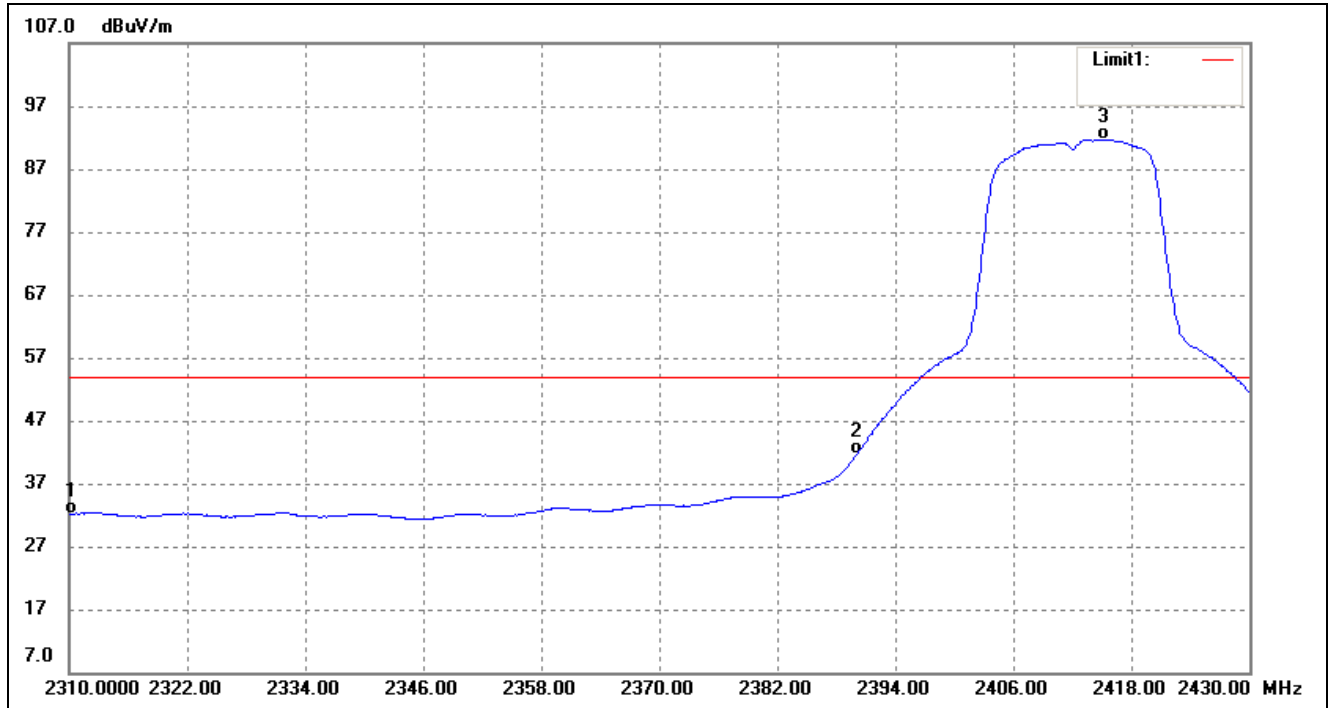
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.174	96.37	-7.33	89.04	/	/	Average Detector
	2460.864	107.57	-7.32	100.25	/	/	Peak Detector
2	2483.500	38.74	-7.28	31.46	54.00	-22.54	Average Detector
	2483.500	50.05	-7.28	42.77	74.00	-31.23	Peak Detector
3	2500.000	40.75	-7.25	33.50	54.00	-20.50	Average Detector
	2500.000	51.76	-7.25	44.51	74.00	-29.49	Peak Detector

802.11g-Lowest Bandedge

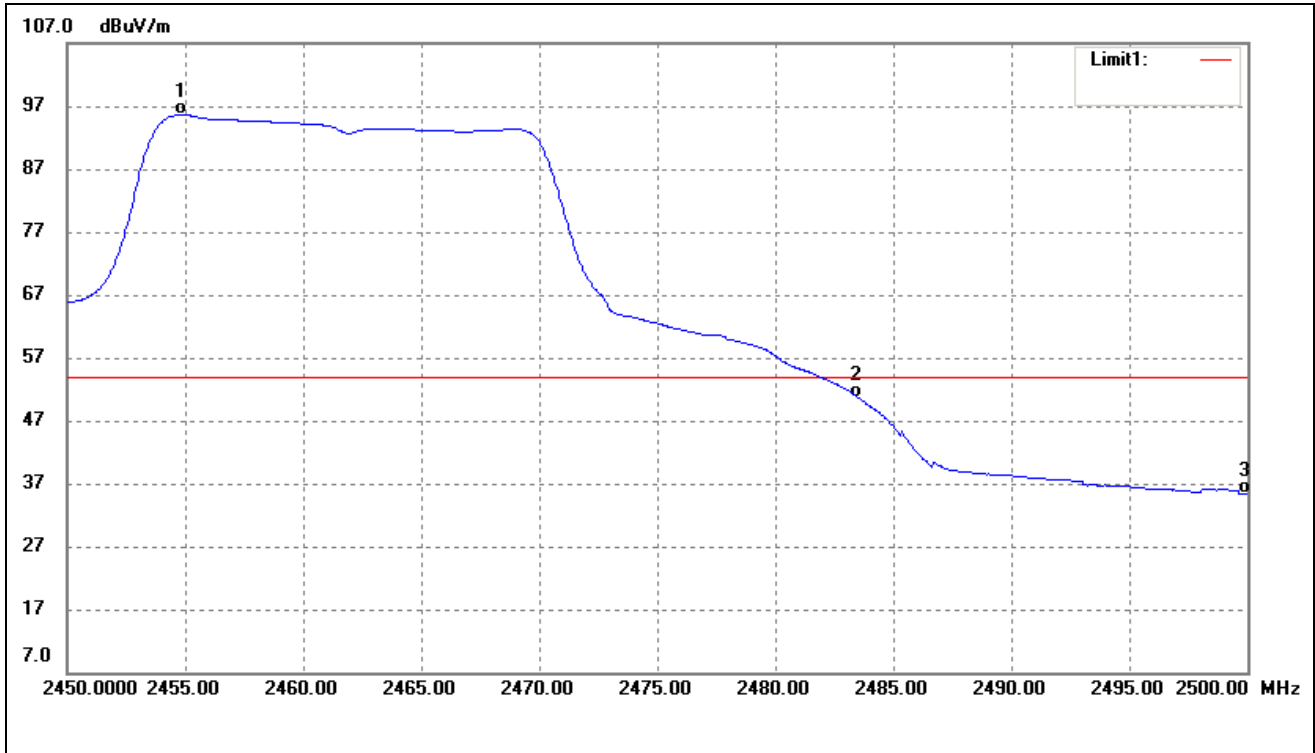
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	38.47	-6.38	32.09	54.00	-21.91	Average Detector
	2310.000	51.48	-6.38	45.10	74.00	-28.90	Peak Detector
2	2390.000	48.86	-7.26	41.60	54.00	-12.40	Average Detector
	2390.000	67.20	-7.26	59.94	74.00	-14.06	Peak Detector
3	2415.120	99.08	-7.40	91.68	/	/	Average Detector
	2413.800	109.41	-7.40	102.01	/	/	Peak Detector

802.11g-Highest Bandedge

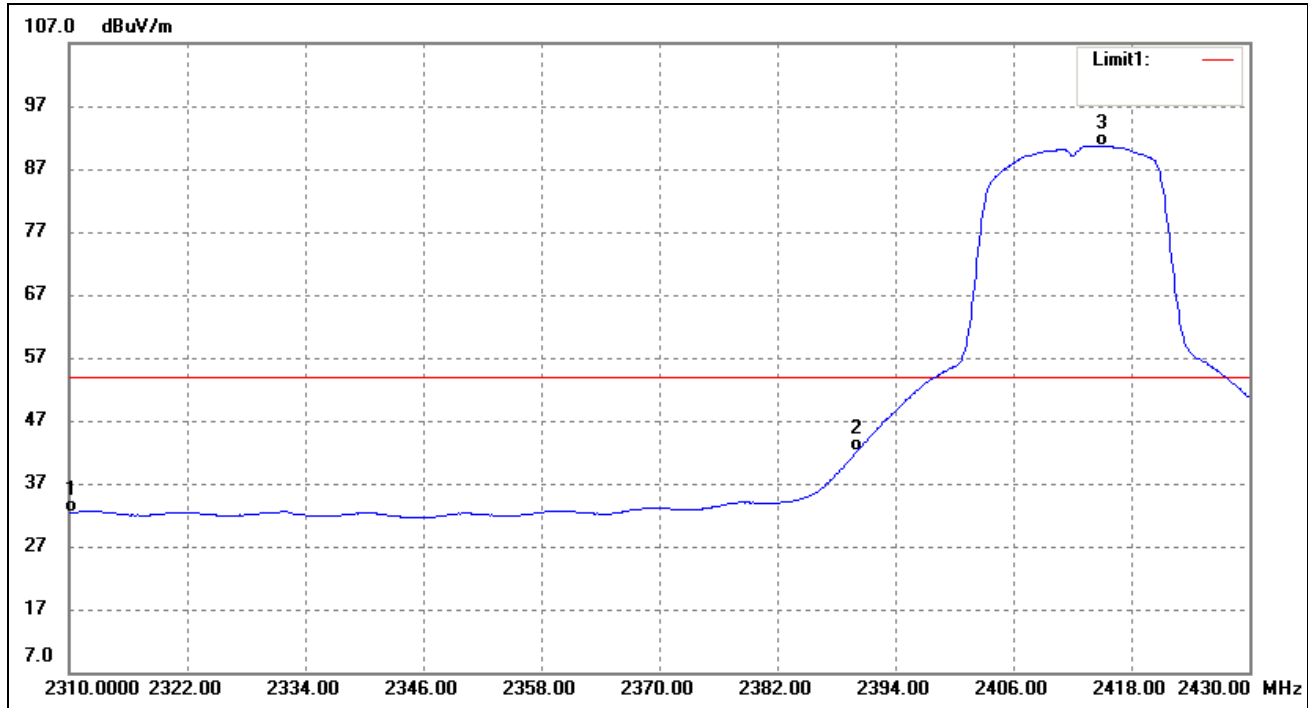
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.856	102.92	-7.33	95.59	/	/	Average Detector
	2455.401	108.78	-7.33	101.45	/	/	Peak Detector
2	2483.500	57.96	-7.28	50.68	54.00	-3.32	Average Detector
	2483.500	74.80	-7.28	67.52	74.00	-6.48	Peak Detector
3	2500.000	42.66	-7.25	35.41	54.00	-18.59	Average Detector
	2500.000	53.25	-7.25	46.00	74.00	-28.00	Peak Detector

802.11n-HT20-Lowest Bandedge

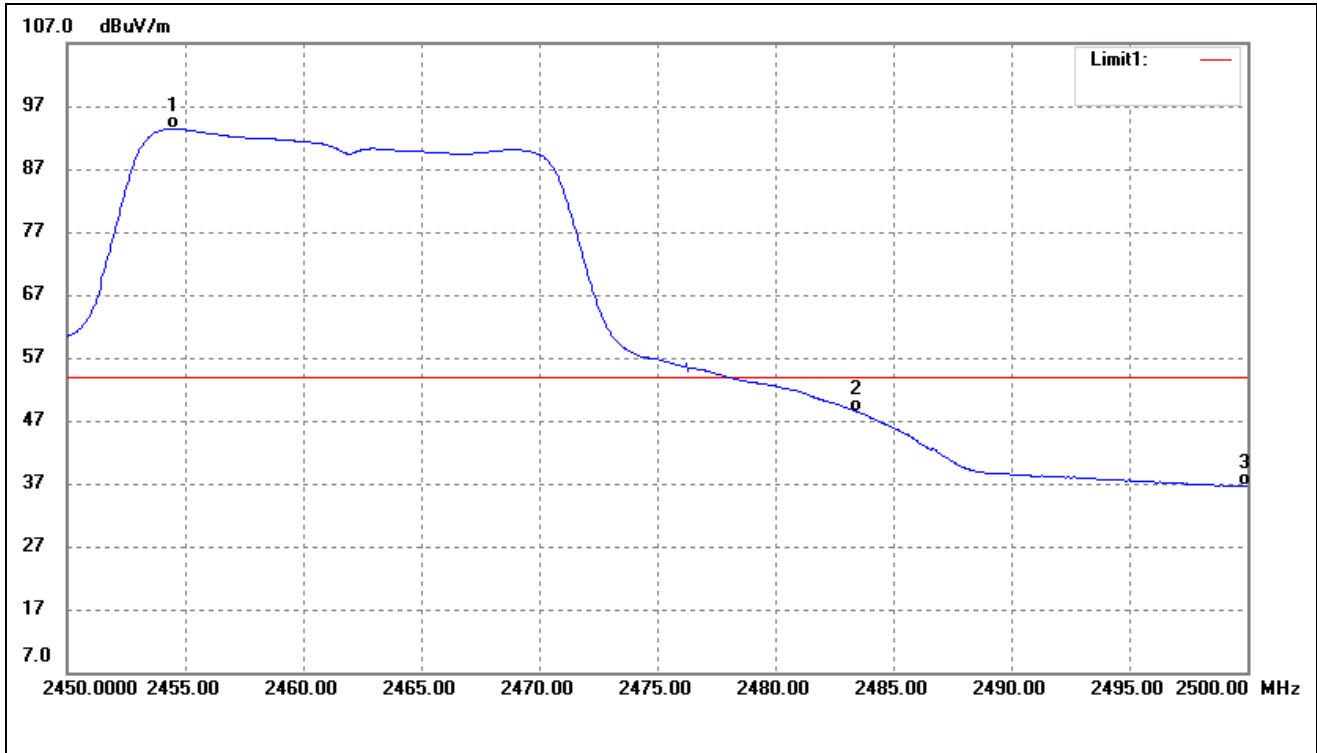
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	38.73	-6.38	32.35	54.00	-21.65	Average Detector
	2310.000	51.39	-6.38	45.01	74.00	-28.99	Peak Detector
2	2390.000	49.29	-7.26	42.03	54.00	-11.97	Average Detector
	2390.000	68.43	-7.26	61.17	74.00	-12.83	Peak Detector
3	2415.000	98.13	-7.40	90.73	/	/	Average Detector
	2414.280	108.03	-7.40	100.63	/	/	Peak Detector

802.11n-HT20-Highest Bandedge

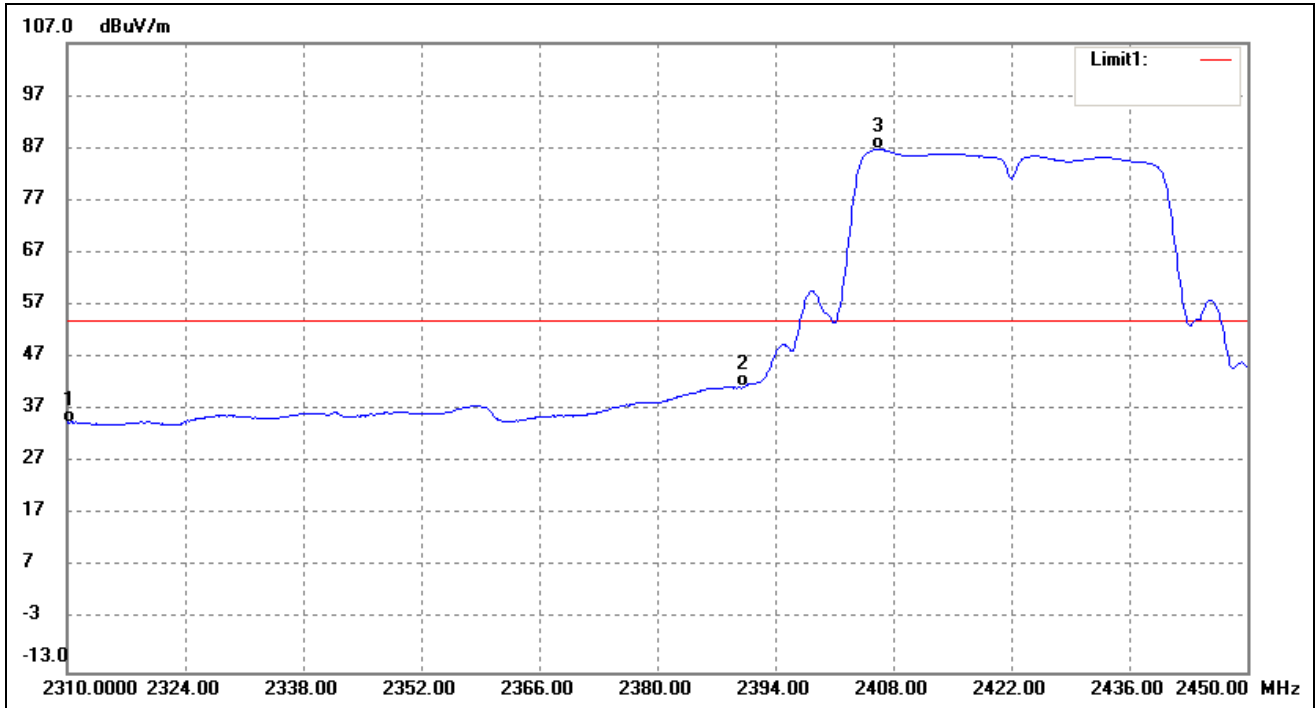
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.508	100.72	-7.33	93.39	/	/	Average Detector
	2455.054	109.42	-7.33	102.09	/	/	Peak Detector
2	2483.500	55.67	-7.28	48.39	54.00	-5.61	Average Detector
	2483.500	68.64	-7.28	61.36	74.00	-12.64	Peak Detector
3	2500.000	43.78	-7.25	36.53	54.00	-17.47	Average Detector
	2500.000	54.74	-7.25	47.49	74.00	-26.51	Peak Detector

802.11n-HT40-Lowest Bandedge

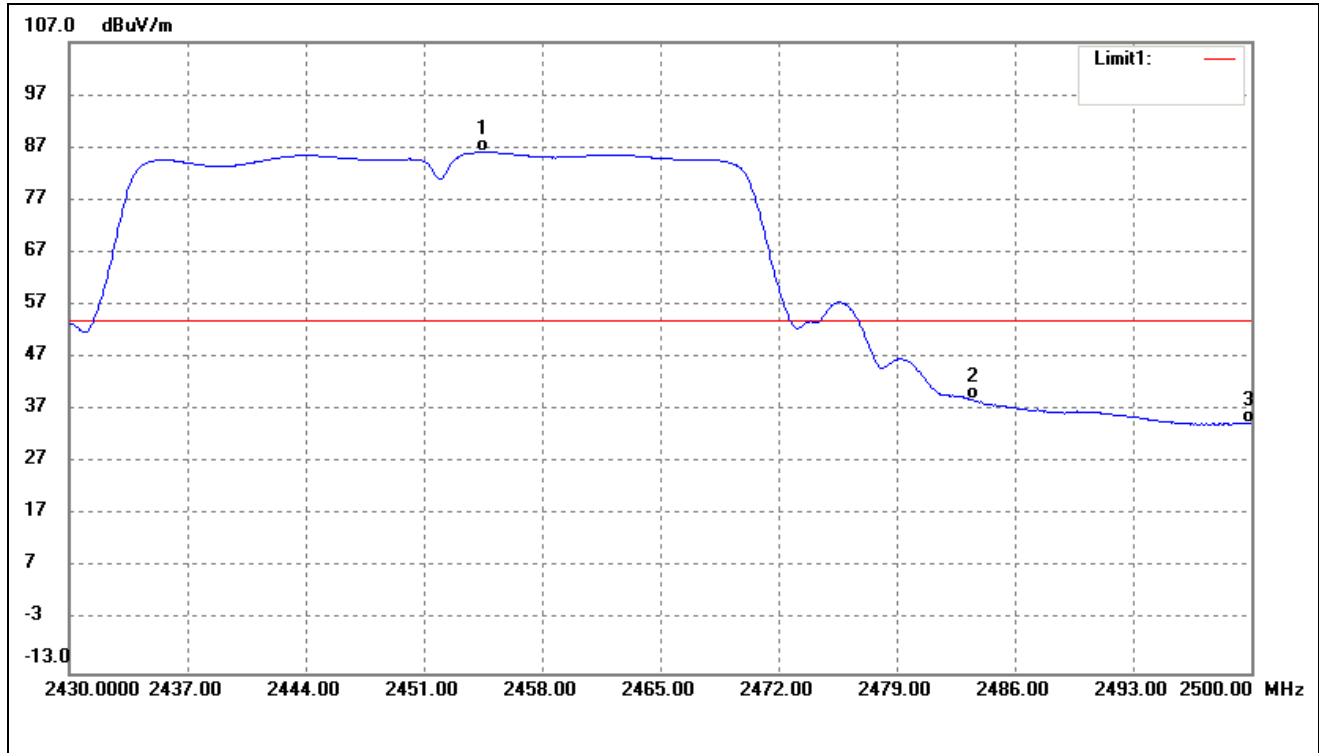
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	35.00	-0.35	34.65	54.00	-19.35	Average Detector
	2310.000	46.78	-0.35	46.43	74.00	-27.57	Peak Detector
2	2390.000	42.65	-1.29	41.36	54.00	-12.64	Average Detector
	2390.000	56.66	-1.29	55.37	74.00	-18.63	Peak Detector
3	2406.180	88.23	-1.45	86.78	/	/	Average Detector
	2406.180	98.03	-1.45	96.58	/	/	Peak Detector

802.11n-HT40-Highest Bandedge

Vertical (Worst case)

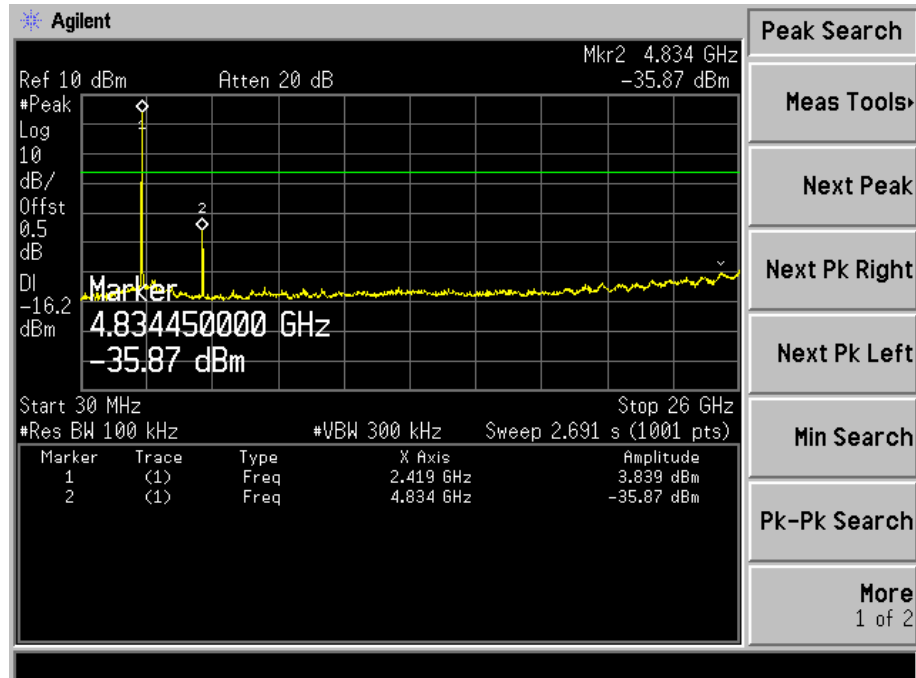


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.500	87.52	-1.39	86.13	/	/	Average Detector
	2454.920	96.90	-1.39	95.51	/	/	Peak Detector
2	2483.500	40.32	-1.36	38.96	54.00	-15.04	Average Detector
	2483.500	52.74	-1.36	51.38	74.00	-22.62	Peak Detector
3	2500.000	35.92	-1.34	34.58	54.00	-19.42	Average Detector
	2500.000	47.88	-1.34	46.54	74.00	-27.46	Peak Detector

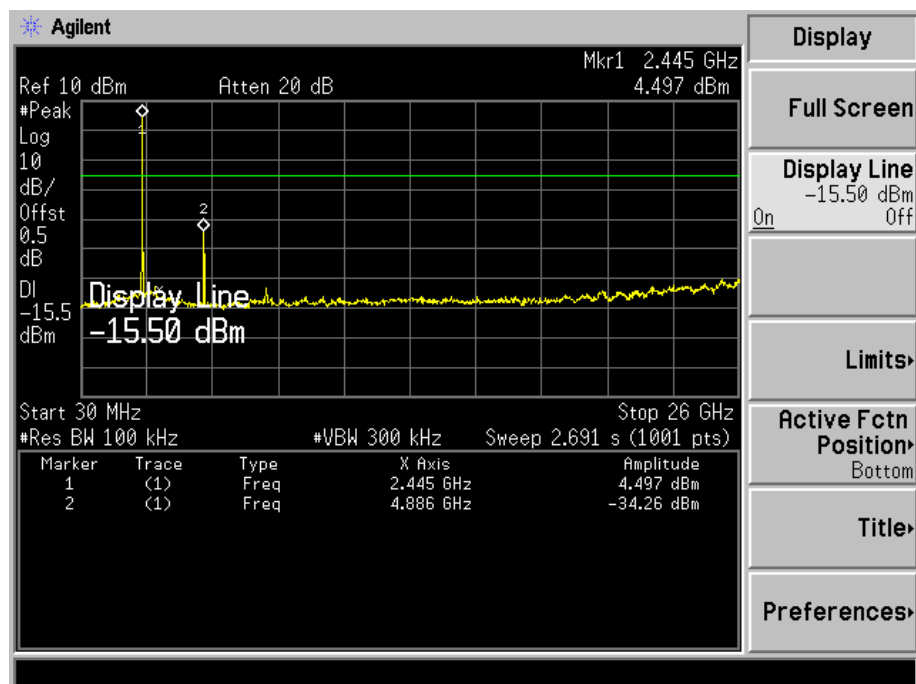
Spurious (Conducted)

802.11b-Lowest

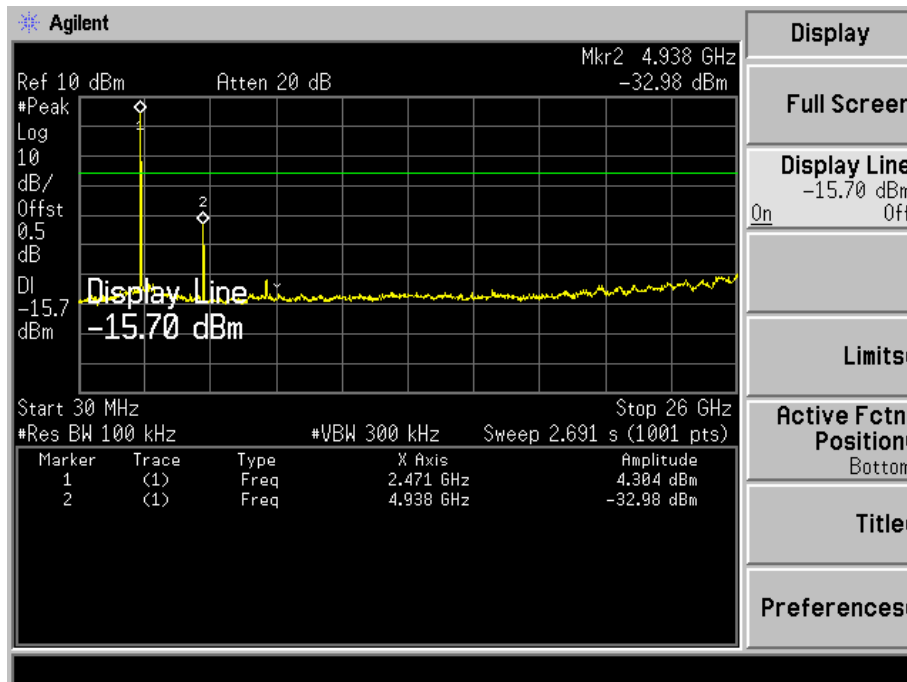
Lowest



Middle



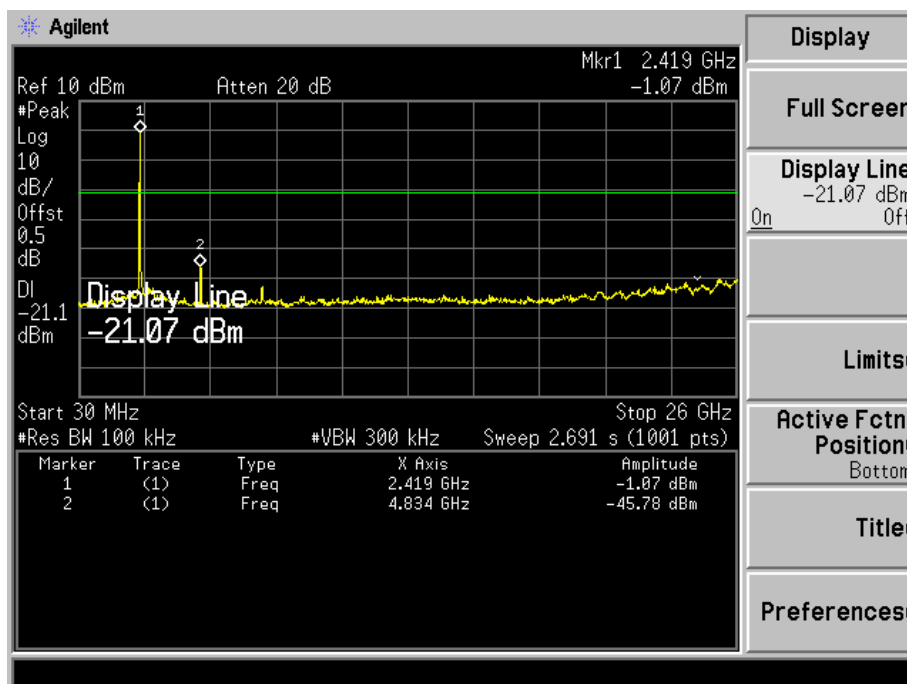
Highest



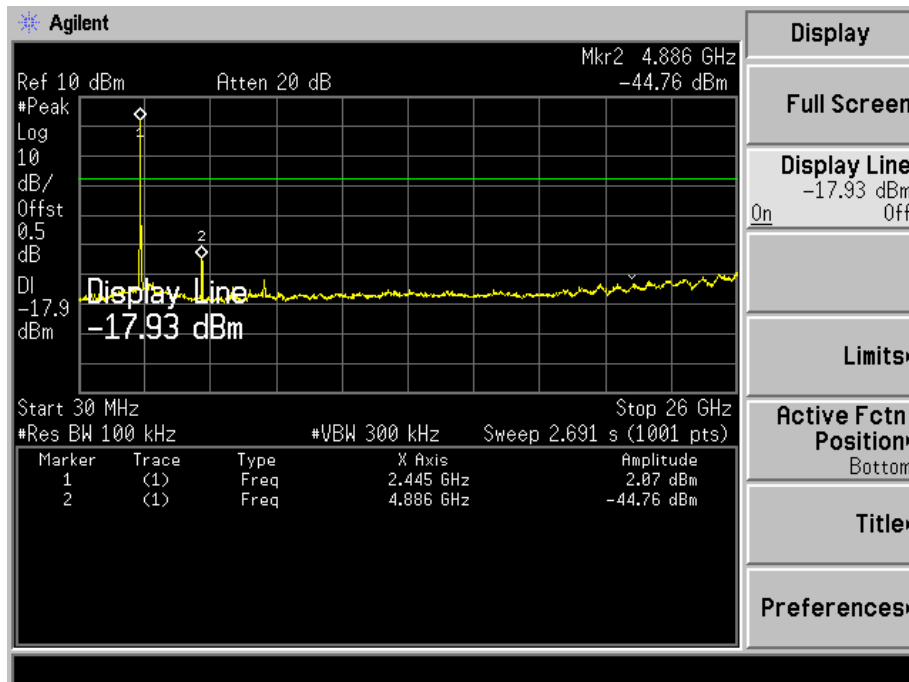
Spurious (Conducted)

802.11g-Lowest

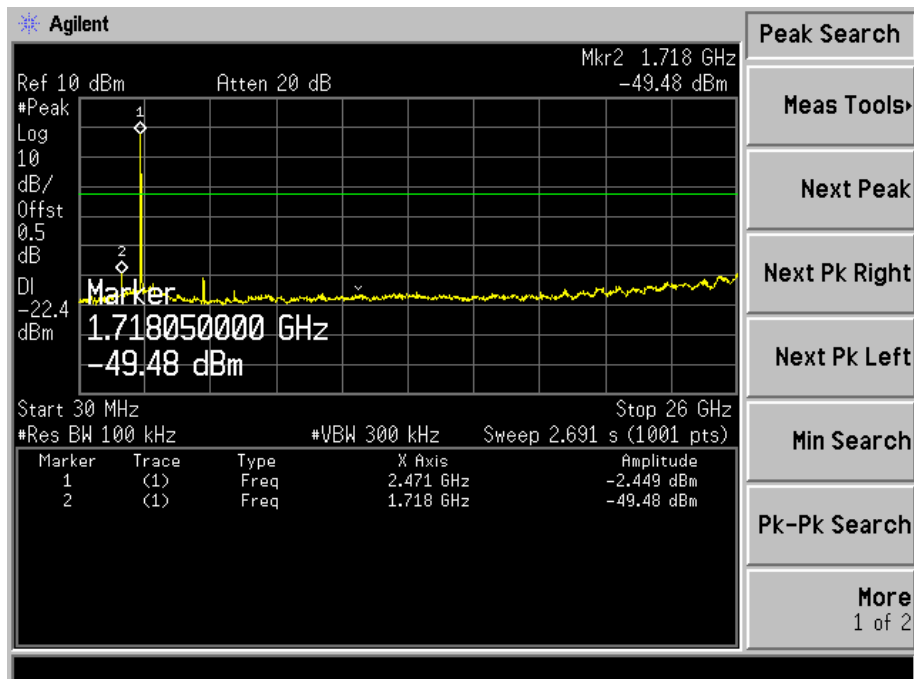
Lowest



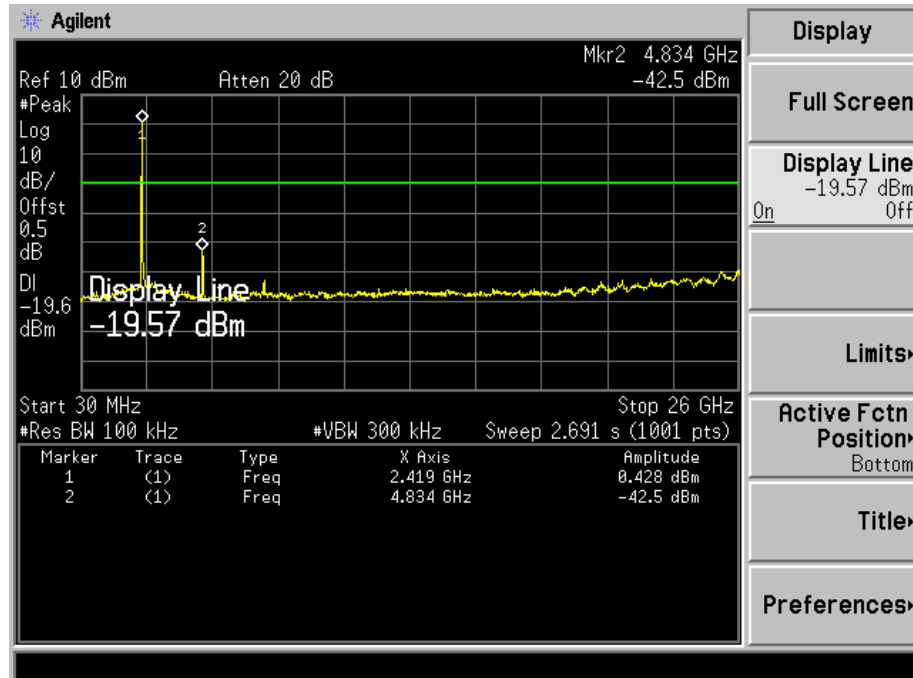
Middle



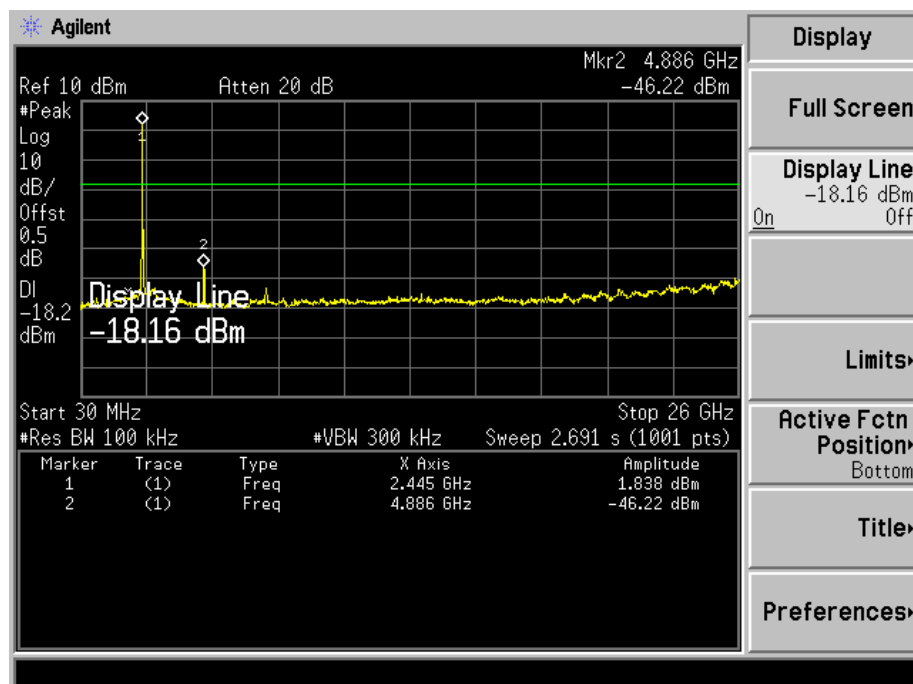
Highest



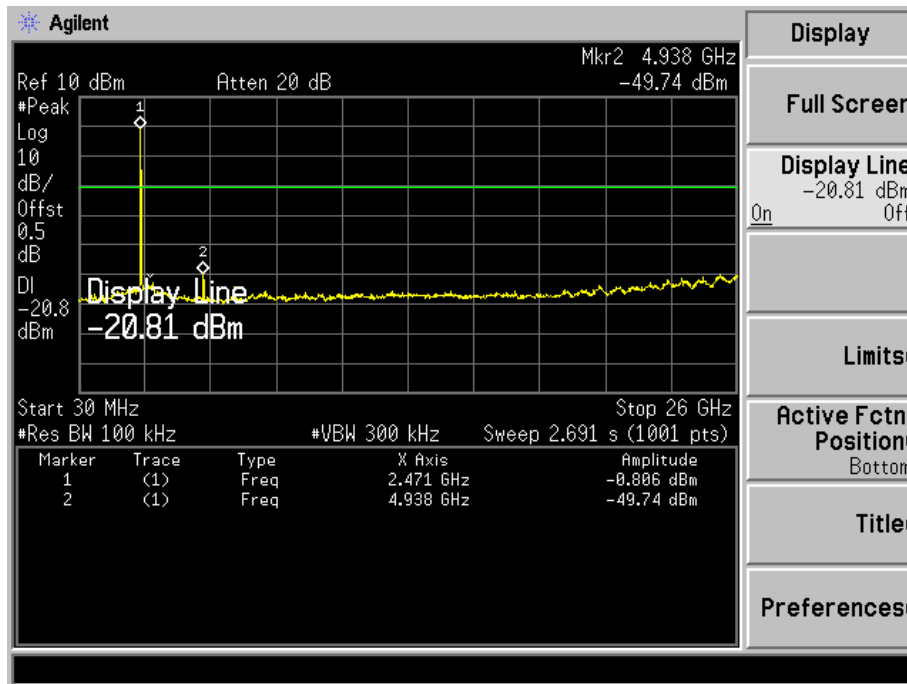
Spurious (Conducted)
802.11n-HT20-Lowest
Lowest



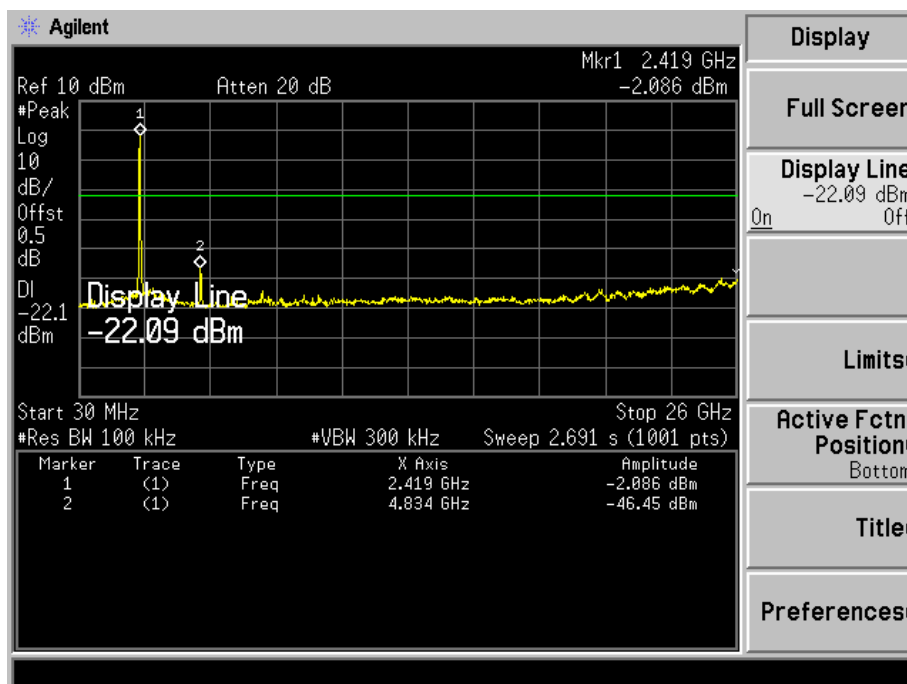
Middle



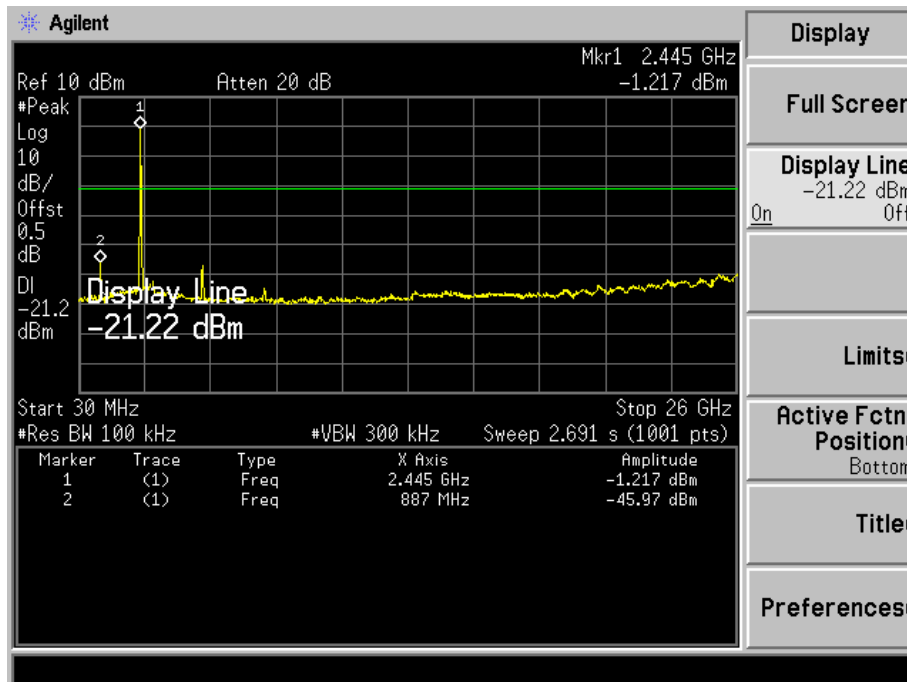
Highest



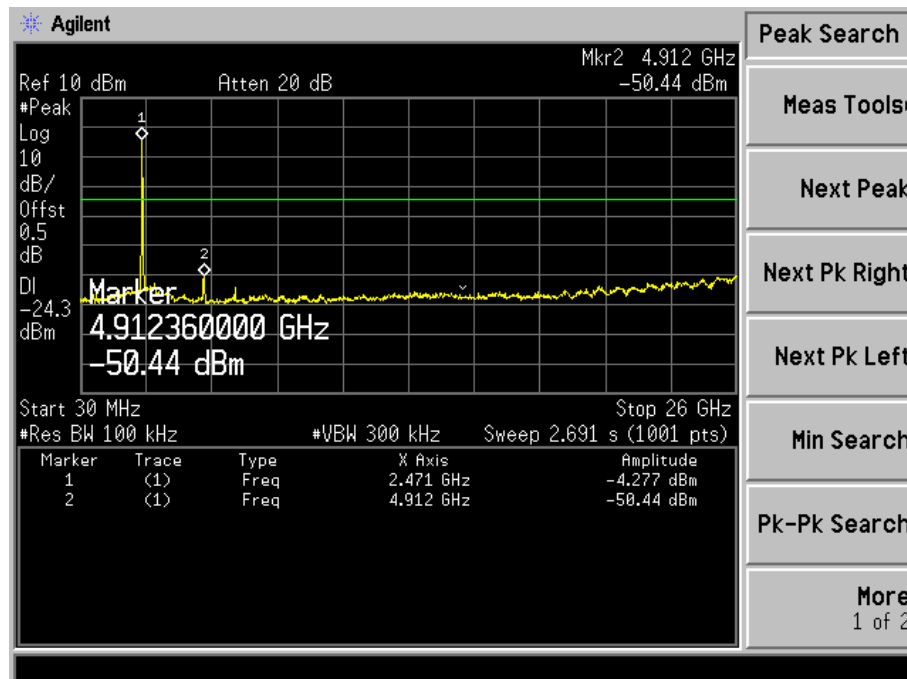
Spurious (Conducted)
802.11n-HT40-Lowest
Lowest



Middle



Highest



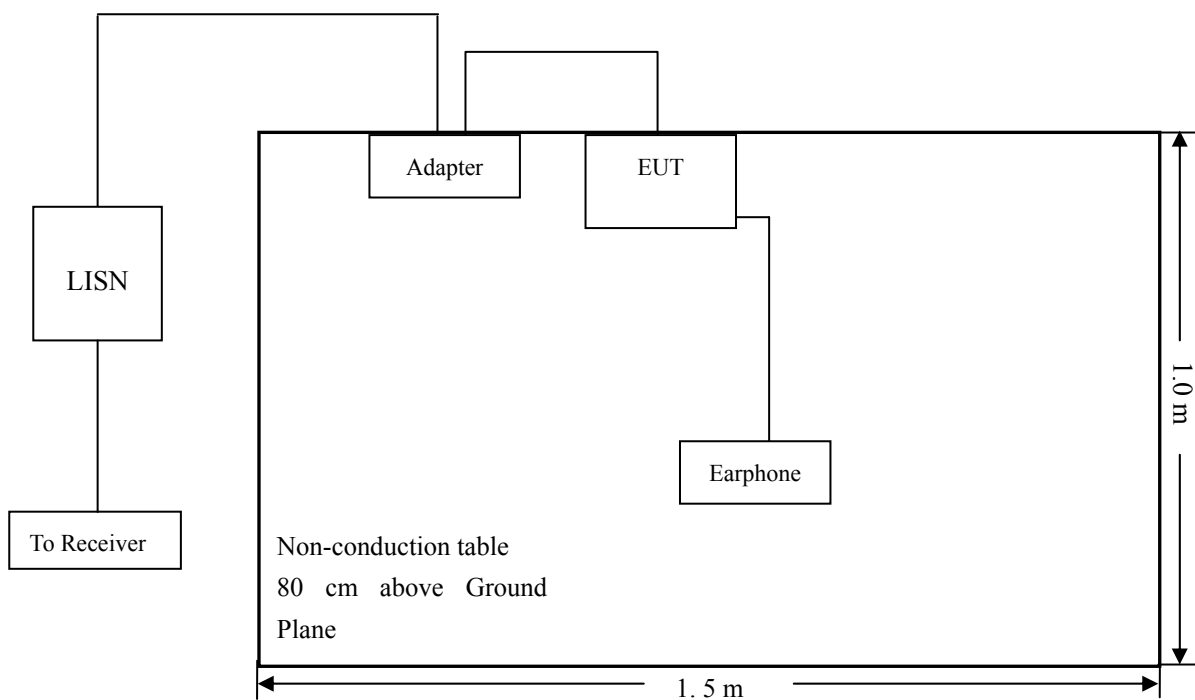
10. Conducted Emissions

10.1 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.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

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

10.4 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

10.5 Summary of Test Results/Plots

According to the data in section 10.6, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

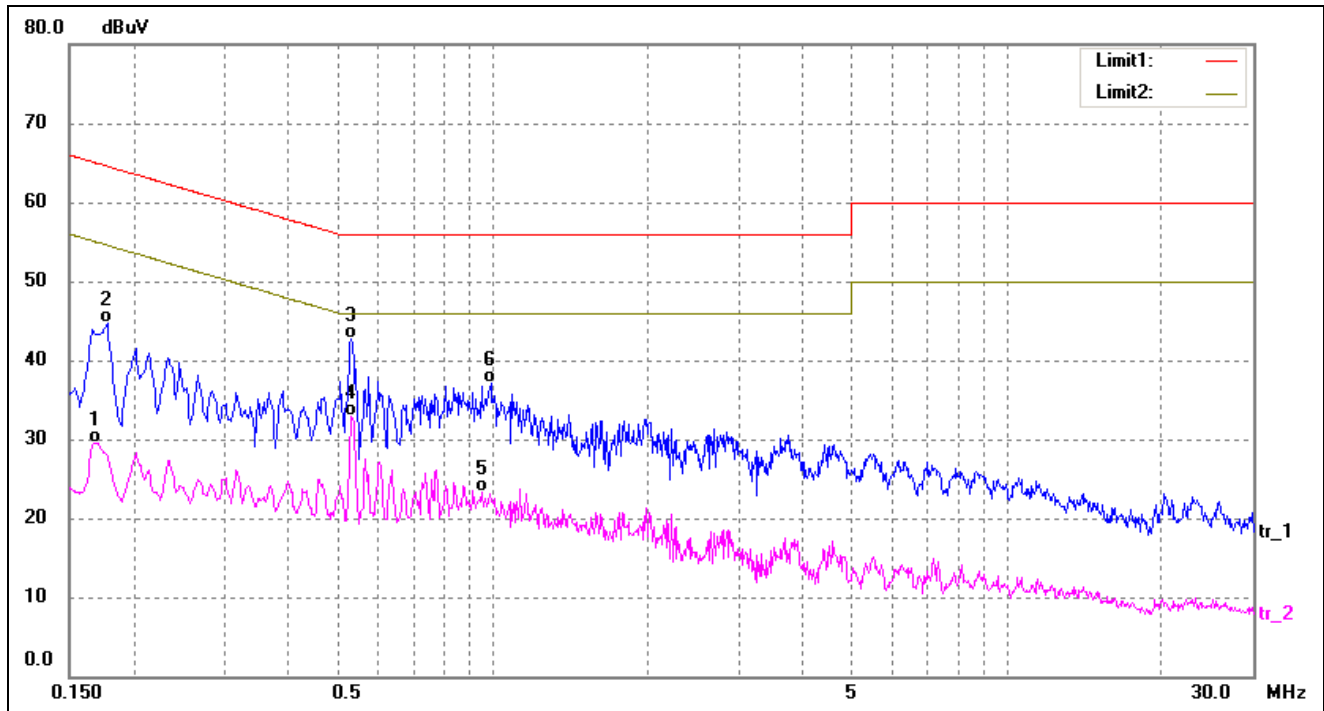
-6.15 dB at 0.5300 MHz in the **Line** mode, **Average** detector, **0.15-30MHz**

10.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

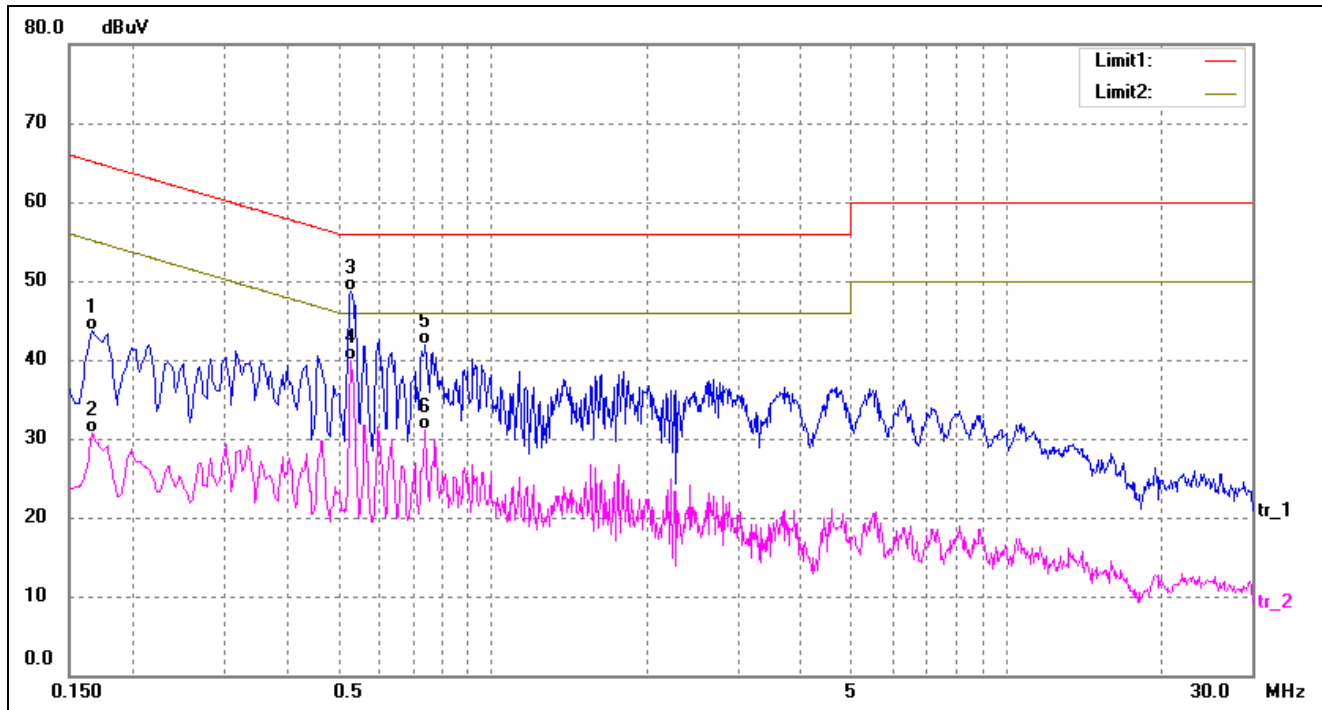
EUT: 4G Smart Phone
Tested Model: AM530
Operating Condition: Transmitting(Wi-Fi)
Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	19.76	9.83	29.59	54.96	-25.37	AVG
2	0.1780	34.82	9.82	44.64	64.58	-19.94	QP
3	0.5300	32.86	9.80	42.66	56.00	-13.34	QP
4*	0.5300	23.01	9.80	32.81	46.00	-13.19	AVG
5	0.9500	13.64	9.76	23.40	46.00	-22.60	AVG
6	0.9940	27.34	9.76	37.10	56.00	-18.90	QP

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	33.84	9.83	43.67	65.16	-21.49	QP
2	0.1660	20.79	9.83	30.62	55.16	-24.54	AVG
3	0.5300	38.88	9.80	48.68	56.00	-7.32	QP
4*	0.5300	30.05	9.80	39.85	46.00	-6.15	AVG
5	0.7420	32.19	9.78	41.97	56.00	-14.03	QP
6	0.7420	21.40	9.78	31.18	46.00	-14.82	AVG

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