

FCC Part 15C Measurement and Test Report

For

DDC TRADING INC

400 Sunny Isles Blvd # 1506 Sunny Isles Beach, FL 33160,USA.

FCC ID: 2AGF3L5C

FCC Rule(s): FCC Part 15C

Product Description: Mobile phone

Tested Model: <u>L5c</u>

Report No.: <u>STR17108097I-2</u>

Tested Date: 2017-10-13 to 2017-10-26

Issued Date: <u>2017-10-27</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: DDC TRADING INC

Address of applicant: 400 Sunny Isles Blvd # 1506 Sunny Isles Beach, FL 33160,

USA.

Manufacturer: DDC TRADING INC

Address of manufacturer: 400 Sunny Isles Blvd # 1506 Sunny Isles Beach, FL 33160,

USA.

General Description of EUT:			
Product Name:	Mobile phone		
Brand Name:	DDC		
Model No.:	L5c		
Adding Model:	/		
Rated Voltage:	DC 3.8V Li-ion Battery		
Battery Capacity:	2500mAh		
Adapter Madel:	Model: HJ-0501000B3-AR		
Adapter Model:	Input:AC100-240~50/60Hz,0.15A; Output:DC5V1000mA		
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		
Fraguency Pango:	2412-2462MHz for 802.11b/g/n(HT20)		
Frequency Range:	2422-2452MHz for 802.11n(HT40)		
RF Output Power:	14.93dBm (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:	3.1dBi		

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Model: L5c

1.2 Test Standards

The following report is prepared on behalf of the DDC TRADING INC 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.

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.



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	er Model No. Serial Number				
/	/	/	/			
Accessories Cable List	and Details					
Cable Description	tion Length (m) Shielded/Unshielded With Core/Without Core					
/	/	/	/			
EUT Cable List and D	EUT Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core			
USB Cable	0.83	Unshielded	Without			
Earphone Cable	1.00	Unshielded	Without			

1.6 Measurement Uncertainty

Measurement uncertainty				
Parameter	Conditions	Uncertainty		
RF Output Power	Conducted	±0.42dB		
Occupied Bandwidth	Conducted	±1.5%		
Power Spectral Density	Conducted	±1.8dB		
Conducted Spurious Emission	Conducted	±2.17dB		
Conducted Emissions	Conducted	±2.88dB		
Transmitter Spurious Emissions	Radiated	±5.1dB		

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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	Schwarz beck	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
SEMT-1168	Pre-amplifier	Direction Systems	PAP-0126	14141-12838	2017-08-15	2018-08-14
3EN11-1100	r re-ampimer	Inc.	1A1-0120	14141-12030	2017-00-13	2010-00-14
SEMT-1169	Pre-amplifier	Direction Systems	PAP-2640	14145-14153	2017-08-15	2018-08-14
5LIVI1-1109	i re-ampimei	Inc.	1A1 -2040	17175-17155	2017-00-13	2010-00-14
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2017-06-12	2018-06-11
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2017-03-09	2018-03-08



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 SAR Report.



4. Antenna Requirement

4.1 Standard Applicable

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

4.2 Evaluation Information

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



5. Power Spectral Density

5.1 Standard Applicable

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

5.2 Test Procedure

According to the KDB 558074 D01 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 ≥ 3 x RBW.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \text{ x span/RBW}$.
- 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

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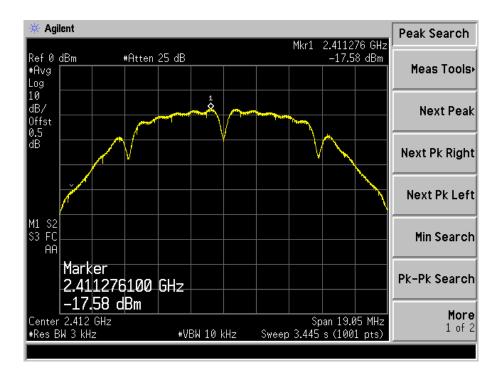
5.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	-17.58	8
802.11b	2437	-17.09	8
	2462	-16.38	8
	2412	-20.53	8
802.11g	2437	-20.76	8
	2462	-20.89	8
	2412	-20.91	8
802.11n HT20	2437	-21.18	8
	2462	-21.14	8
	2422	-24.73	8
802.11n HT40	2437	-24.41	8
	2452	-24.53	8

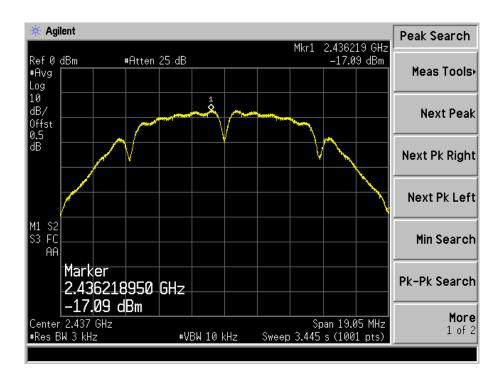
Please refer to the following test plots:



802.11b-Low Channel

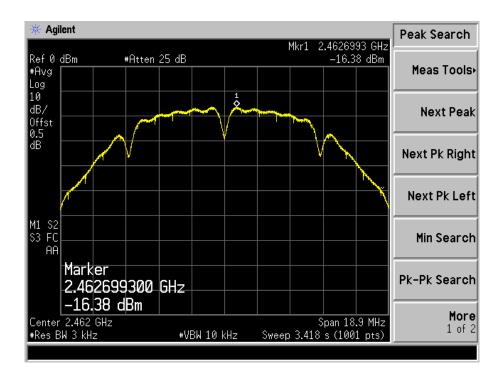


802.11b-Middle Channel

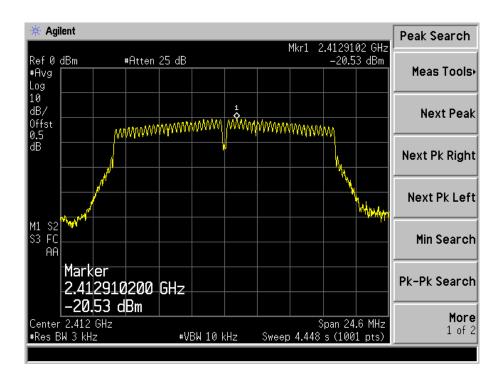




802.11b-High Channel

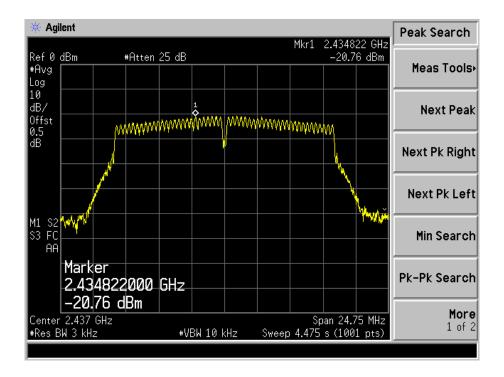


802.11g-Low Channel

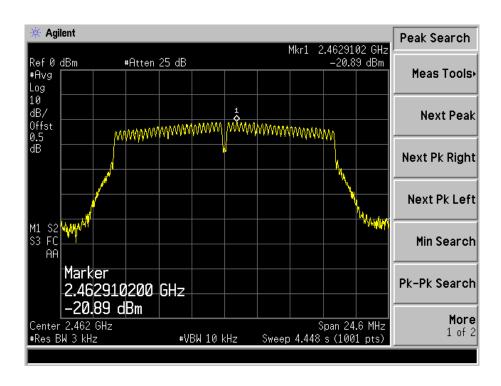




802.11g-Middle Channel

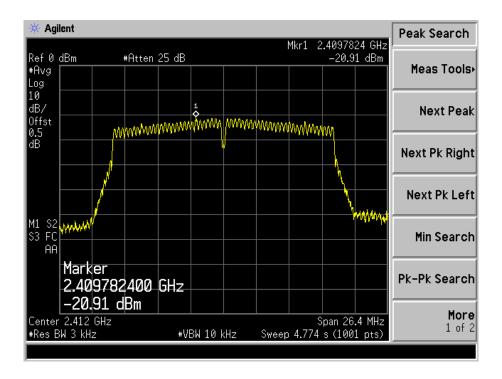


802.11g-High Channel

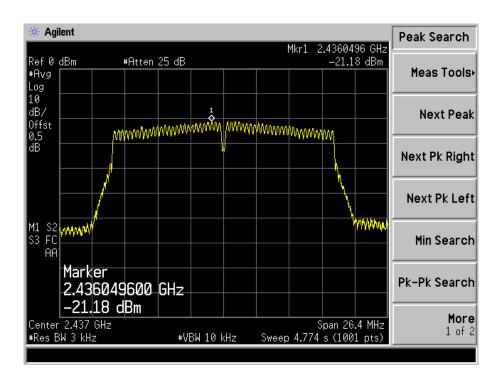




802.11n-HT20-Low Channel

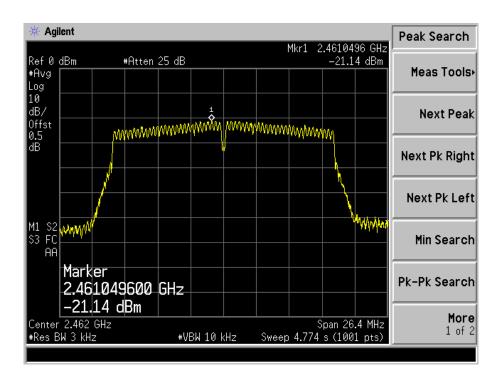


802.11n-HT20-Middle Channel

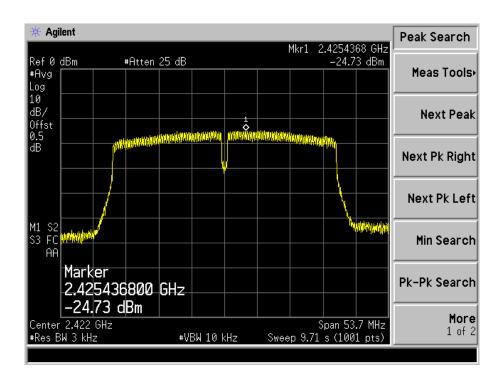




802.11n-HT20-High Channel

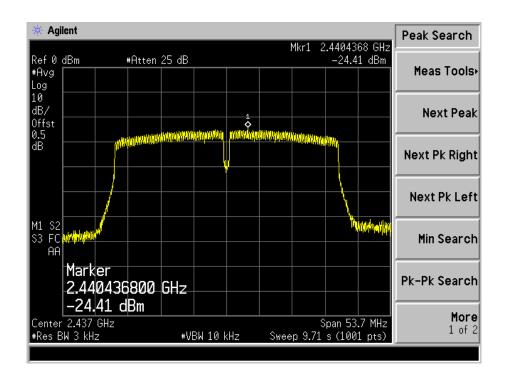


802.11n-HT40-Low Channel

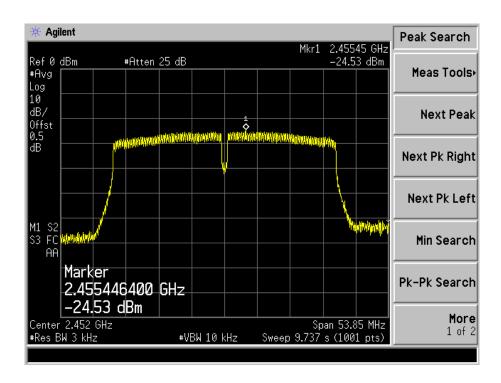




802.11n-HT40-Middle Channel



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

- 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

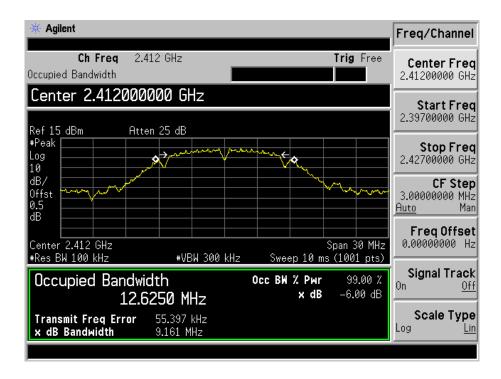
Test Mode	Test Channel	6 dB Bandwidth	99% Bandwidth	Limit
Test Mode	MHz	MHz	MHz	kHz
	2412	9.161	12.6250	≥500
802.11b	2437	9.146	12.6096	≥500
	2462	9.159	12.5957	≥500
	2412	16.350	16.3882	≥500
802.11g	2437	16.347	16.4153	≥500
	2462	16.359	16.3917	≥500
	2412	17.582	17.5448	≥500
802.11n-HT20	2437	17.601	17.5352	≥500
	2462	17.606	17.5338	≥500
802.11n-HT40	2422	36.153	35.7666	≥500
	2437	36.301	35.7862	≥500
	2452	36.164	35.8018	≥500

Please refer to the following test plots:

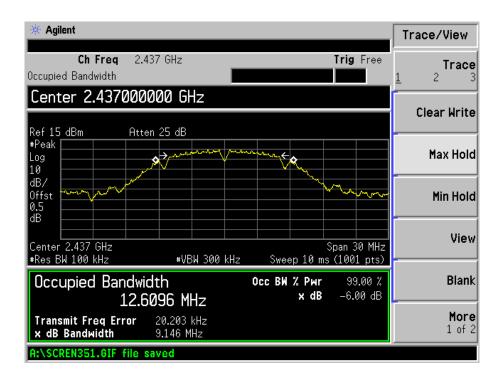
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802.11b-Low Channel

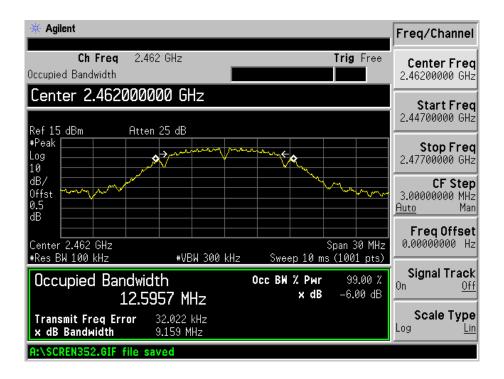


802.11b-Middle Channel

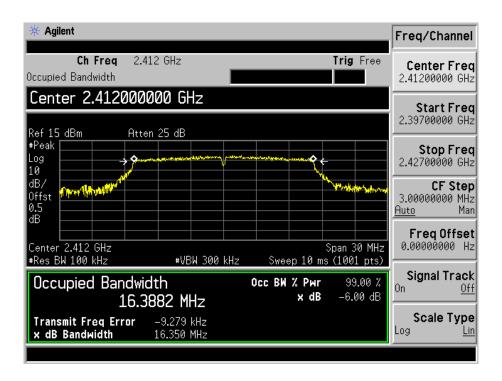




802.11b-High Channel

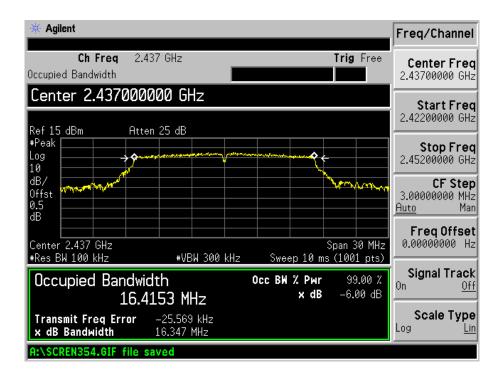


802.11g-Low Channel

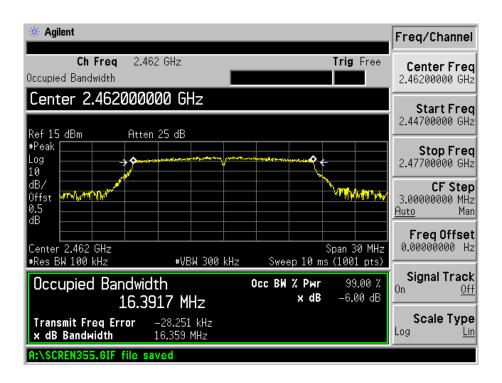




802.11g-Middle Channel

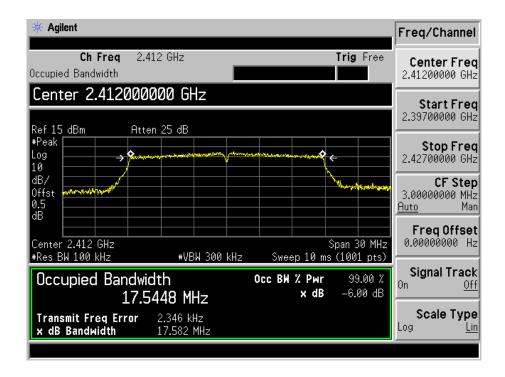


802.11g-High Channel

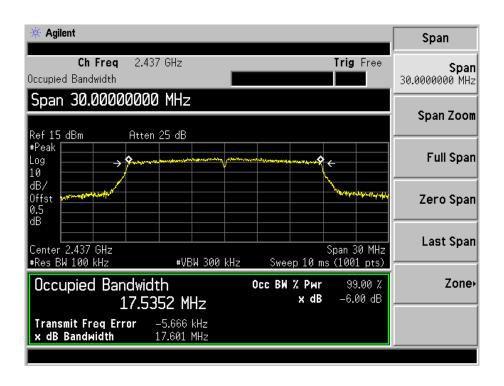




802.11n-HT20-Low Channel

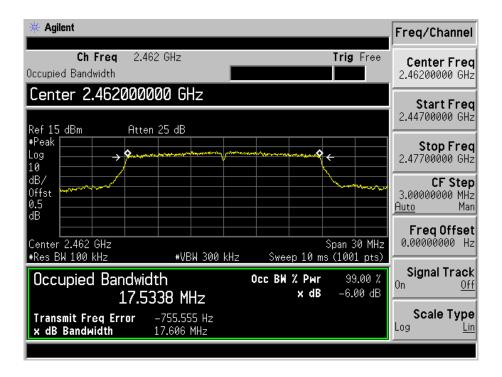


802.11n-HT20-Middle Channel

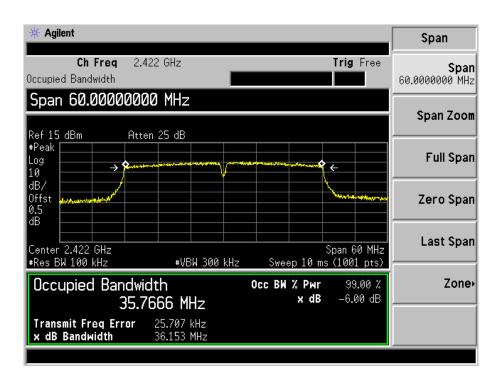




802.11n-HT20-High Channel

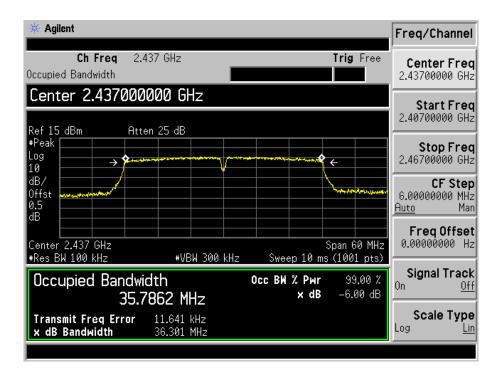


802.11n-HT40-Low Channel

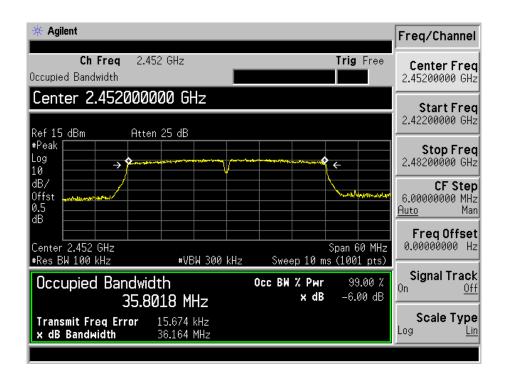




802.11n-HT40-Middle Channel



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 x 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 \ge 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

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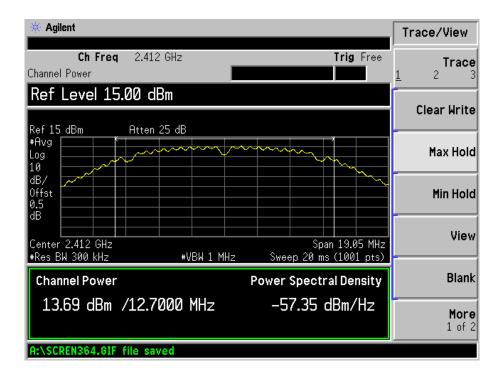
7.4 Summary of Test Results/Plots

Test Mode	Frequency	Reading	Output Power	Limit	
Test Mode	MHz	dBm	mW	mW	
	2412	13.69	23.39	1000	
802.11b _ 11Mbps	2437	14.66	29.24	1000	
	2462	14.93	31.12	1000	
	2412	12.72	18.71	1000	
802.11g_54Mbps	2437	13.01	20.00	1000	
	2462	12.54	17.95	1000	
	2412	11.89	15.45	1000	
802.11n HT20_MCS7	2437	11.89	15.45	1000	
	2462	12.68	18.54	1000	
	2422	11.29	13.46	1000	
802.11n HT40_MCS7	2437	10.97	12.50	1000	
	2452	11.17	13.09	1000	

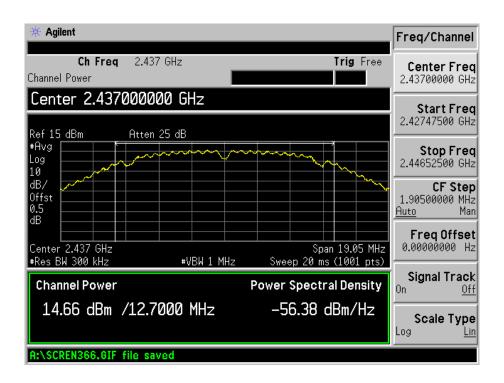
Please refer to the following test plots:



802.11b-11Mbps-Low Channel

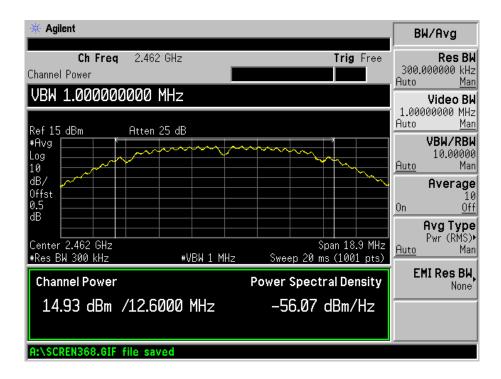


802.11b -11Mbps-Middle Channel

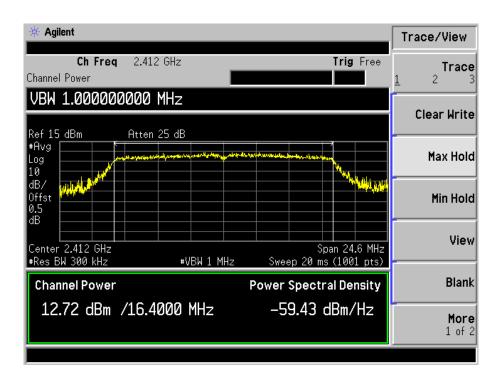




802.11b -11Mpbs-High Channel

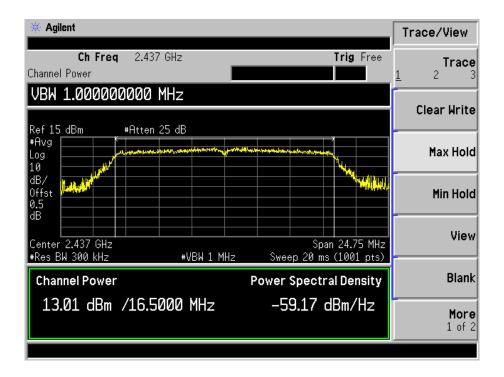


802.11g-54Mbps-Low Channel

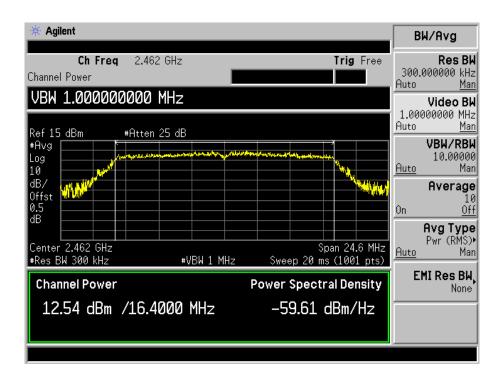




802.11g-54Mbps-Middle Channel

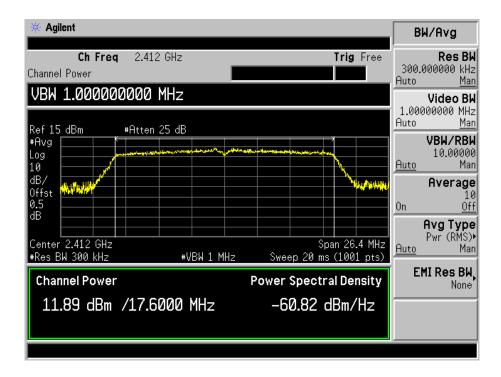


802.11g-54Mpbs-High Channel

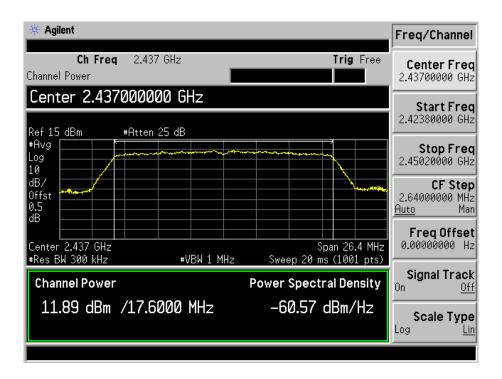




802.11n-HT20-MCS7-Low Channel

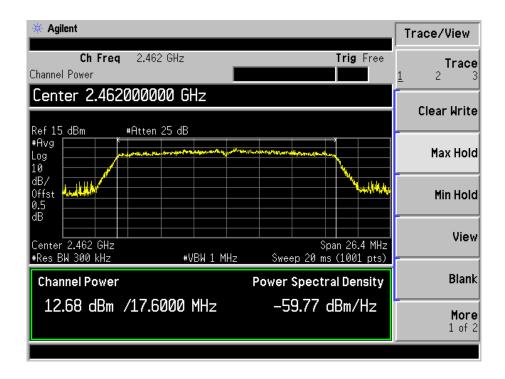


802.11n-HT20-MCS7-Middle Channel

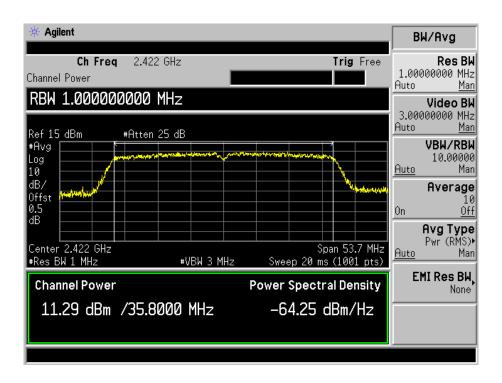




802.11n-HT20-MCS7-High Channel

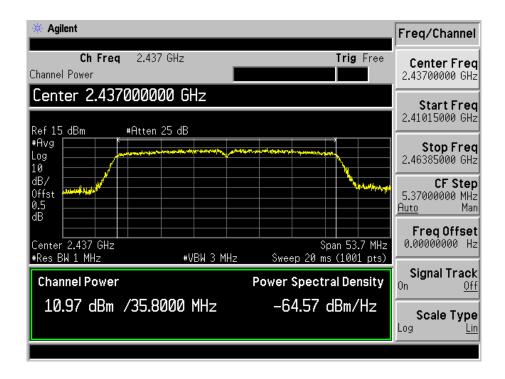


802.11n-HT40-MCS7-Low Channel

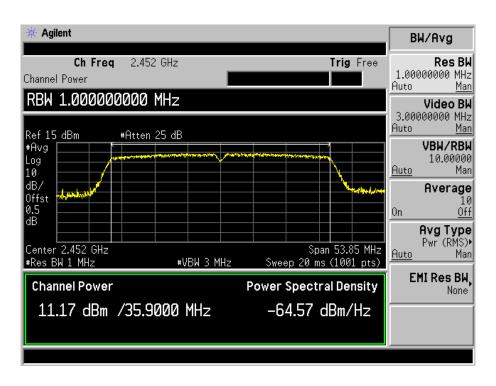




802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel





8. Field Strength of Spurious Emissions

8.1 Standard Applicable

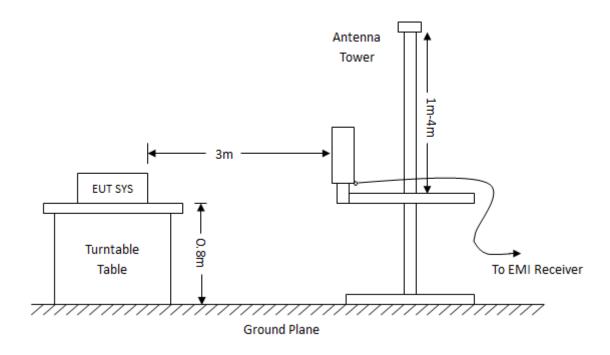
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within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

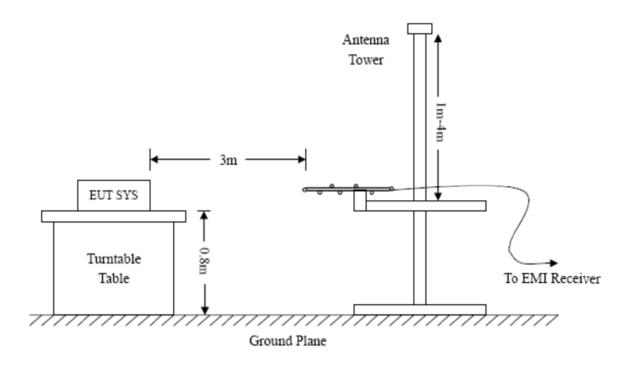
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

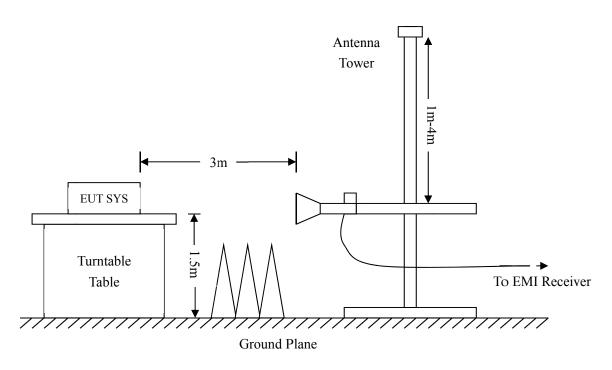
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



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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:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit. The equation for margin calculation is as follows:

8.4 Environmental Conditions

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

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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)

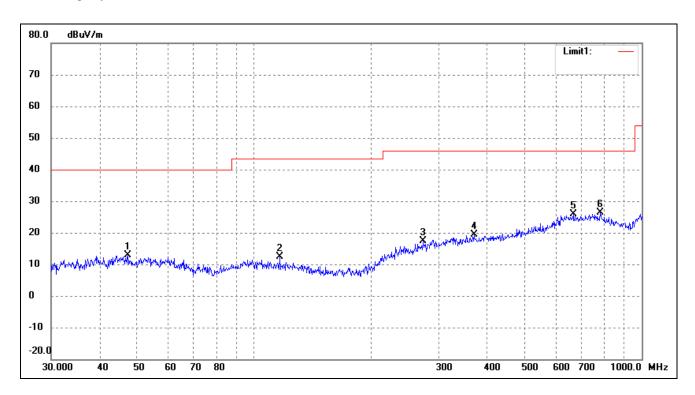
EUT: Mobile phone

Tested Model: L5c

Operating Condition: 802.11b Transmitting

Comment: DC 3.8V

Test Specification: Horizontal

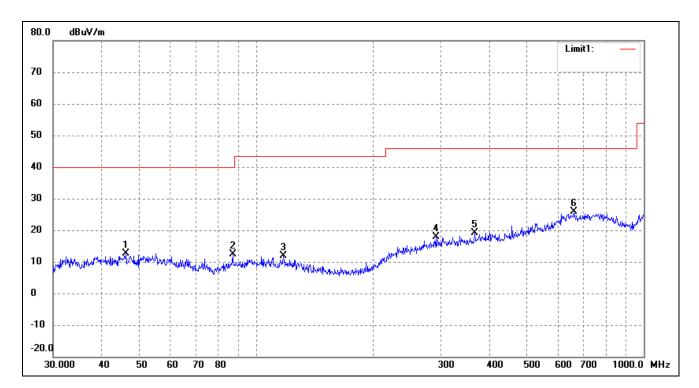


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	47.3255	29.30	-16.52	12.78	40.00	-27.22	224	100	peak
2	116.5401	29.01	-16.66	12.35	43.50	-31.15	100	100	peak
3	273.2341	28.26	-10.85	17.41	46.00	-28.59	127	100	peak
4	369.4047	28.20	-8.89	19.31	46.00	-26.69	90	100	peak
5	665.8035	27.13	-1.17	25.96	46.00	-20.04	215	100	peak
6	782.3453	28.27	-1.89	26.38	46.00	-19.62	152	100	peak

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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	46.1780	29.13	-16.49	12.64	40.00	-27.36	241	100	peak
2	87.1117	31.06	-18.59	12.47	40.00	-27.53	90	100	peak
3	117.7725	28.51	-16.66	11.85	43.50	-31.65	264	100	peak
4	291.0360	27.87	-9.92	17.95	46.00	-28.05	93	100	peak
5	366.8231	28.13	-8.91	19.22	46.00	-26.78	317	100	peak
6	661.1505	27.41	-1.44	25.97	46.00	-20.03	299	100	peak



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

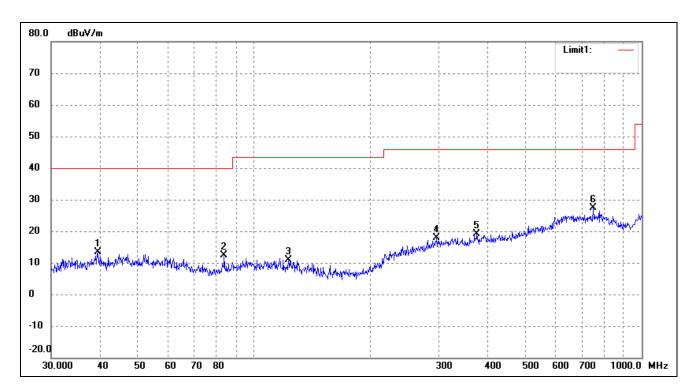
EUT: Mobile phone

Tested Model: L5c

Operating Condition: 802.11g Transmitting

Comment: DC 3.8V

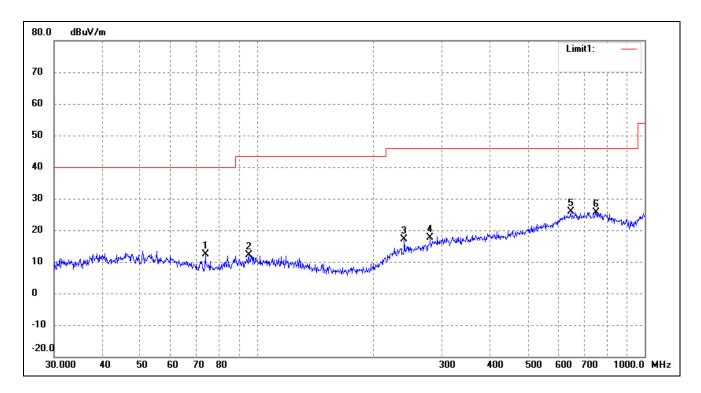
Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.5757	29.87	-16.59	13.28	40.00	-26.72	303	100	peak
2	83.8156	31.61	-19.16	12.45	40.00	-27.55	283	100	peak
3	122.8340	27.73	-16.90	10.83	43.50	-32.67	90	100	peak
4	296.1836	27.60	-9.72	17.88	46.00	-28.12	96	100	peak
5	375.9385	28.04	-8.88	19.16	46.00	-26.84	158	100	peak
6	750.1083	27.70	-0.23	27.47	46.00	-18.53	342	100	peak



Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	73.6170	31.56	-19.13	12.43	40.00	-27.57	189	100	peak
2	95.4270	29.32	-17.23	12.09	43.50	-31.41	110	100	peak
3	239.9874	29.72	-12.54	17.18	46.00	-28.82	85	100	peak
4	280.0238	27.92	-10.36	17.56	46.00	-28.44	124	100	peak
5	645.1195	27.14	-1.15	25.99	46.00	-20.01	351	100	peak
6	750.1083	25.89	-0.23	25.66	46.00	-20.34	342	100	peak



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

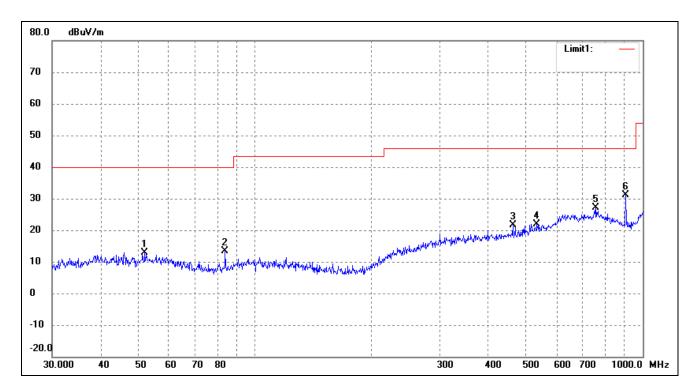
EUT: Mobile phone

Tested Model: L5c

Operating Condition: 802.11n-HT20 Transmitting

Comment: DC 3.8V

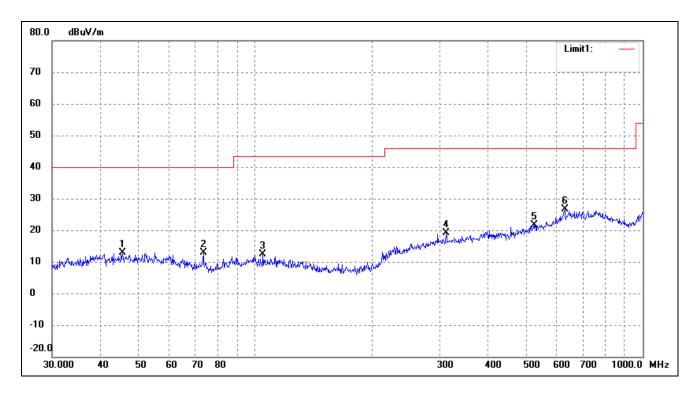
Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	52.0251	29.39	-16.50	12.89	40.00	-27.11	64	100	peak
2	83.8156	32.66	-19.16	13.50	40.00	-26.50	179	100	peak
3	462.3455	28.34	-6.72	21.62	46.00	-24.38	149	100	peak
4	533.8321	27.21	-5.21	22.00	46.00	-24.00	105	100	peak
5	758.0408	27.66	-0.53	27.13	46.00	-18.87	213	100	peak
6	903.3094	34.30	-3.23	31.07	46.00	-14.93	308	100	peak



Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.5348	29.45	-16.49	12.96	40.00	-27.04	276	100	peak
2	73.6170	32.07	-19.13	12.94	40.00	-27.06	99	100	peak
3	104.9033	28.97	-16.61	12.36	43.50	-31.14	242	100	peak
4	311.0867	28.47	-9.45	19.02	46.00	-26.98	98	100	peak
5	524.5541	26.89	-5.20	21.69	46.00	-24.31	301	100	peak
6	629.4772	28.05	-1.36	26.69	46.00	-19.31	316	100	peak



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

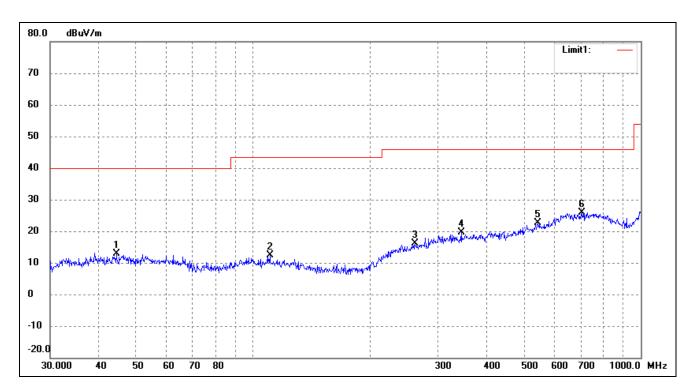
EUT: Mobile phone

Tested Model: L5c

Operating Condition: 802.11n-HT40 Transmitting

Comment: DC 3.8V

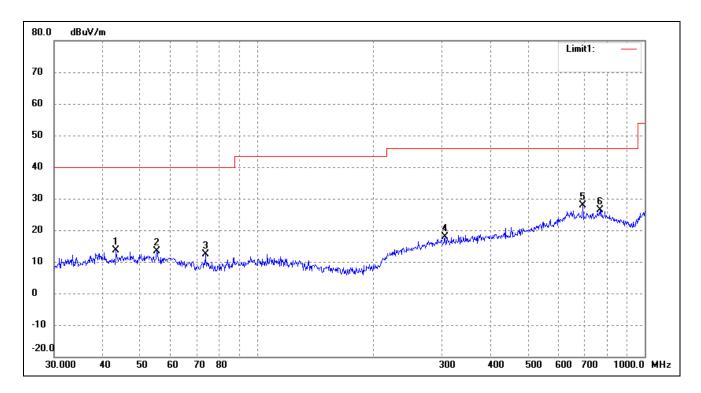
Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	44.4308	29.26	-16.48	12.78	40.00	-27.22	328	100	peak
2	110.5687	28.92	-16.62	12.30	43.50	-31.20	92	100	peak
3	261.9753	27.80	-11.64	16.16	46.00	-29.84	321	100	peak
4	344.3855	29.19	-9.50	19.69	46.00	-26.31	100	100	peak
5	543.2742	27.80	-5.18	22.62	46.00	-23.38	154	100	peak
6	706.6999	27.49	-1.59	25.90	46.00	-20.10	269	100	peak



Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	43.3534	30.03	-16.49	13.54	40.00	-26.46	249	100	peak
2	55.2207	29.85	-16.51	13.34	40.00	-26.66	314	100	peak
3	73.6170	31.53	-19.13	12.40	40.00	-27.60	94	100	peak
4	305.6800	27.40	-9.53	17.87	46.00	-28.13	153	100	peak
5	691.9867	29.01	-1.25	27.76	46.00	-18.24	72	100	peak
6	766.0572	27.23	-0.93	26.30	46.00	-19.70	245	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 Channe	el-2412MHz			
4824.000	57.35	-3.87	53.48	74	-20.52	Н	PK
4824.000	43.14	-3.87	39.27	54	-14.73	Н	AV
7236.000	58.19	1.14	59.33	74	-14.67	Н	PK
7236.000	43.21	1.19	44.40	54	-9.60	Н	AV
4824.000	61.59	-3.86	57.73	74	-16.27	V	PK
4824.000	48.70	-3.86	44.84	54	-9.16	V	AV
7236.000	62.09	1.10	63.19	74	-10.81	V	PK
7236.000	43.35	1.10	44.45	54	-9.55	V	AV
			Middle Chan	nel-2437MHz			
4874.000	57.03	-3.74	53.29	74	-20.71	Н	PK
4874.000	42.16	-3.74	38.42	54	-15.58	Н	AV
7311.000	58.93	1.47	60.40	74	-13.60	Н	PK
7311.000	43.44	1.47	44.91	54	-9.09	Н	AV
4874.000	62.52	-3.74	58.78	74	-15.22	V	PK
4874.000	49.66	-3.74	45.92	54	-8.08	V	AV
7311.000	62.71	1.47	64.18	74	-9.82	V	PK
7311.000	42.95	1.47	44.42	54	-9.58	V	AV
			High Chann	el-2462MHz			
4924.000	55.88	-3.59	52.29	74	-21.71	Н	PK
4924.000	41.30	-3.59	37.71	54	-16.29	Н	AV
7386.000	58.29	1.79	60.08	74	-13.92	Н	PK
7386.000	41.87	1.79	43.66	54	-10.34	Н	AV
4924.000	63.31	-3.59	59.72	74	-14.28	V	PK
4924.000	50.06	-3.59	46.47	54	-7.53	V	AV
7386.000	62.16	1.79	63.95	74	-10.05	V	PK
7386.000	43.41	1.79	45.20	54	-8.80	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 Channe	el-2412MHz			•
4824.000	61.27	-3.87	57.4	74	-16.6	Н	PK
4824.000	43.42	-3.87	39.55	54	-14.45	Н	AV
7236.000	53.48	1.14	54.62	74	-19.38	Н	PK
7236.000	39.86	1.19	41.05	54	-12.95	Н	AV
4824.000	61.33	-3.86	57.47	74	-16.53	V	PK
4824.000	43.71	-3.86	39.85	54	-14.15	V	AV
7236.000	54.29	1.1	55.39	74	-18.61	V	PK
7236.000	40.35	1.1	41.45	54	-12.55	V	AV
			Middle Chan	nel-2437MHz			
4874.000	60.58	-3.74	56.84	74	-17.16	Н	PK
4874.000	43.81	-3.74	40.07	54	-13.93	Н	AV
7311.000	54.57	1.47	56.04	74	-17.96	Н	PK
7311.000	39.13	1.47	40.6	54	-13.4	Н	AV
4874.000	61.16	-3.74	57.42	74	-16.58	V	PK
4874.000	43.47	-3.74	39.73	54	-14.27	V	AV
7311.000	54.64	1.47	56.11	74	-17.89	V	PK
7311.000	39.03	1.47	40.5	54	-13.5	V	AV
			High Chann	el-2462MHz			
4924.000	61.13	-3.59	57.54	74	-16.46	Н	PK
4924.000	43.2	-3.59	39.61	54	-14.39	Н	AV
7386.000	52.82	1.79	54.61	74	-19.39	Н	PK
7386.000	38.27	1.79	40.06	54	-13.94	Н	AV
4924.000	58.82	-3.59	55.23	74	-18.77	V	PK
4924.000	42.99	-3.59	39.4	54	-14.6	V	AV
7386.000	52.86	1.79	54.65	74	-19.35	V	PK
7386.000	39.8	1.79	41.59	54	-12.41	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 Channe	el-2412MHz			
4824.000	60.34	-3.87	56.47	74	-17.53	Н	PK
4824.000	43.84	-3.87	39.97	54	-14.03	Н	AV
7236.000	54.14	1.14	55.28	74	-18.72	Н	PK
7236.000	40.8	1.19	41.99	54	-12.01	Н	AV
4824.000	59.17	-3.86	55.31	74	-18.69	V	PK
4824.000	43.57	-3.86	39.71	54	-14.29	V	AV
7236.000	55.11	1.1	56.21	74	-17.79	V	PK
7236.000	38.02	1.1	39.12	54	-14.88	V	AV
			Middle Chan	nel-2437MHz			
4874.000	59.58	-3.74	55.84	74	-18.16	Н	PK
4874.000	41.28	-3.74	37.54	54	-16.46	Н	AV
7311.000	53.37	1.47	54.84	74	-19.16	Н	PK
7311.000	38.65	1.47	40.12	54	-13.88	Н	AV
4874.000	58.4	-3.74	54.66	74	-19.34	V	PK
4874.000	42.52	-3.74	38.78	54	-15.22	V	AV
7311.000	52.44	1.47	53.91	74	-20.09	V	PK
7311.000	38.1	1.47	39.57	54	-14.43	V	AV
			High Chann	el-2462MHz			
4924.000	60.9	-3.59	57.31	74	-16.69	Н	PK
4924.000	41.17	-3.59	37.58	54	-16.42	Н	AV
7386.000	52.49	1.79	54.28	74	-19.72	Н	PK
7386.000	40.05	1.79	41.84	54	-12.16	Н	AV
4924.000	59.01	-3.59	55.42	74	-18.58	V	PK
4924.000	42.42	-3.59	38.83	54	-15.17	V	AV
7386.000	52.42	1.79	54.21	74	-19.79	V	PK
7386.000	38.44	1.79	40.23	54	-13.77	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 Channe	el-2422MHz			•
4844.000	59.14	-3.9	55.24	74	-18.76	Н	PK
4844.000	40.91	-3.9	37.01	54	-16.99	Н	AV
7266.000	53.18	1.06	54.24	74	-19.76	Н	PK
7266.000	40.28	1.06	41.34	54	-12.66	Н	AV
4844.000	59.3	-3.9	55.4	74	-18.60	V	PK
4844.000	41.99	-3.9	38.09	54	-15.91	V	AV
7266.000	51.34	1.06	52.4	74	-21.60	V	PK
7266.000	39.82	1.06	40.88	54	-13.12	V	AV
			Middle Chan	nel-2437MHz			
4874.000	58.64	-3.74	54.9	74	-19.1	Н	PK
4874.000	41.25	-3.74	37.51	54	-16.49	Н	AV
7311.000	52.17	1.47	53.64	74	-20.36	Н	PK
7311.000	39.72	1.47	41.19	54	-12.81	Н	AV
4874.000	60.89	-3.74	57.15	74	-16.85	V	PK
4874.000	42.74	-3.74	39	54	-15	V	AV
7311.000	53.94	1.47	55.41	74	-18.59	V	PK
7311.000	38.14	1.47	39.61	54	-14.39	V	AV
			High Chann	el-2452MHz			•
4904.000	58.6	-3.63	54.97	74	-19.03	Н	PK
4904.000	42.37	-3.63	38.74	54	-15.26	Н	AV
7356.000	53.59	1.62	55.21	74	-18.79	Н	PK
7356.000	38.34	1.62	39.96	54	-14.04	Н	AV
4904.000	60.81	-3.63	57.18	74	-16.82	V	PK
4904.000	41.48	-3.63	37.85	54	-16.15	V	AV
7356.000	51.92	1.62	53.54	74	-20.46	V	PK
7356.000	38.63	1.62	40.25	54	-13.75	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.



Model: L5c

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.



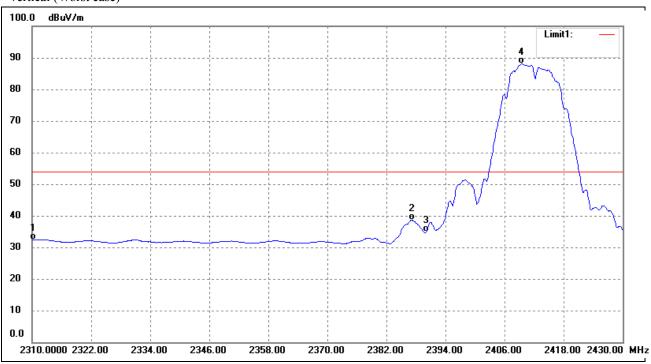
9.3 Environmental Conditions

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

9.4 Summary of Test Results/Plots

802.11b-Lowest Bandedge

Vertical (Worst case)

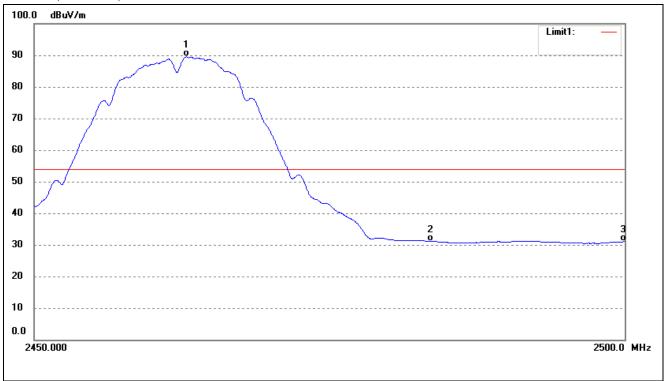


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.00	38.66	-6.38	32.28	54.00	-21.72	Average Detector
	2310.00	51.98	-6.38	45.60	70.00	-24.40	Peak Detector
2	2387.16	45.80	-7.23	38.57	54.00	-15.43	Average Detector
	2390.00	52.36	-7.26	45.10	70.00	-24.90	Peak Detector
3	2390.000	42.03	-7.26	34.77	Delta=53.36dBc		Average Detector
4	2409.480	95.54	-7.41	88.13	Delta=53	.30uBC	Average Detector

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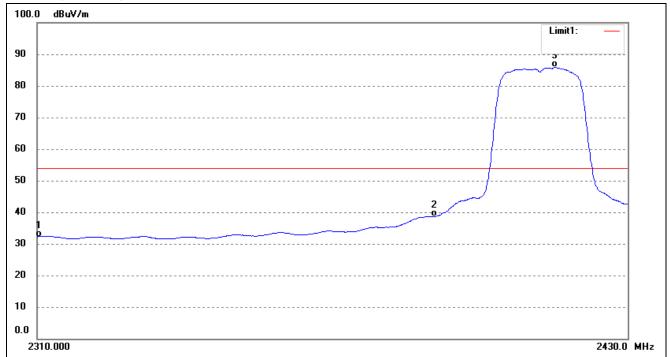
802.11b-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)		
1	2462.80	96.82	-7.31	89.51	/	/	Average Detector	
	2463.35	101.65	-7.31	94.34	/	/	Peak Detector	
2	2483.50	38.40	-7.28	31.12	54.00	-22.88	Average Detector	
	2483.50	51.18	-7.28	43.90	74.00	-30.10	Peak Detector	
3	2500.00	38.29	-7.25	31.04	54.00	-22.96	Average Detector	
	2500.00	51.06	-7.25	43.81	74.00	-30.19	Peak Detector	



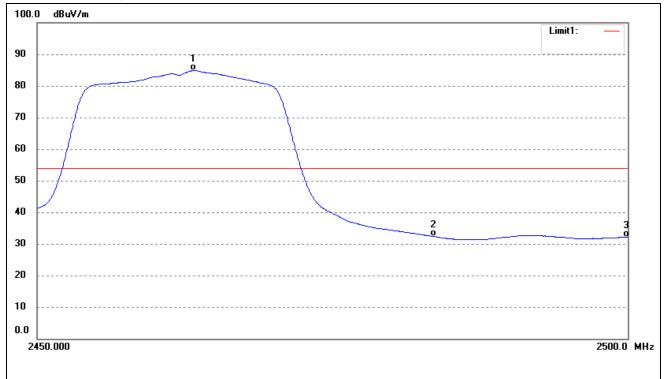
802.11g-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
1	2310.00	38.63	-6.38	32.25	54.00	-21.75	Average Detector	
	2310.00	51.06	-6.38	44.68	74.00	-29.32	Peak Detector	
2	2390.00	45.96	-7.26	38.70	54.00	-15.30	Average Detector	
	2390.00	62.69	-7.26	55.43	74.00	-18.57	Peak Detector	
3	2414.91	93.23	-7.40	85.83	/	/	Average Detector	
	2413.32	104.08	-7.40	96.68	/	/	Peak Detector	



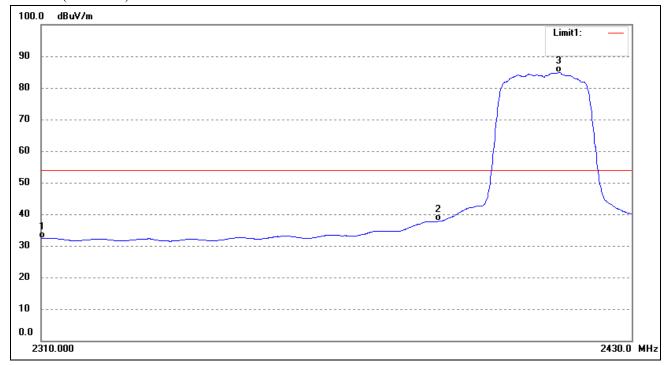
802.11g-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
1	2463.15	92.16	-7.31	84.85	/	/	Average Detector	
	2463.60	103.03	-7.31	95.72	/	/	Peak Detector	
2	2483.50	39.59	-7.28	32.31	54.00	-21.69	Average Detector	
	2483.50	54.11	-7.28	46.83	74.00	-27.17	Peak Detector	
3	2500.00	39.48	-7.25	32.23	54.00	-21.77	Average Detector	
	2500.00	54.24	-7.25	46.99	74.00	-27.01	Peak Detector	



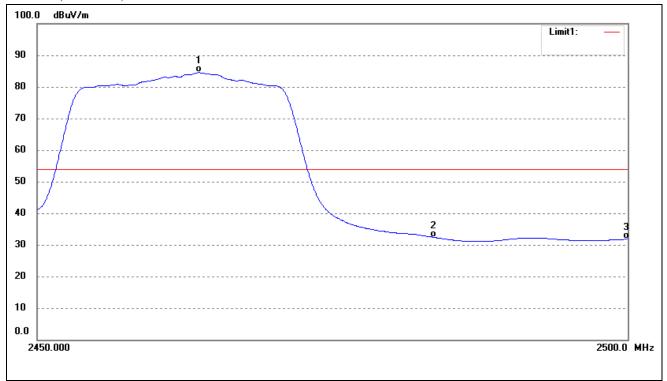
802.11n-HT20-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
1	2310.00	38.64	-6.38	32.26	54.00	-21.74	Average Detector	
	2310.00	50.92	-6.38	44.54	74.00	-29.46	Peak Detector	
2	2390.00	45.03	-7.26	37.77	54.00	-16.23	Average Detector	
	2390.00	59.79	-7.26	52.53	74.00	-21.47	Peak Detector	
3	2414.91	92.25	-7.40	84.85	/	/	Average Detector	
	2415.03	103.23	-7.40	95.83	/	/	Peak Detector	



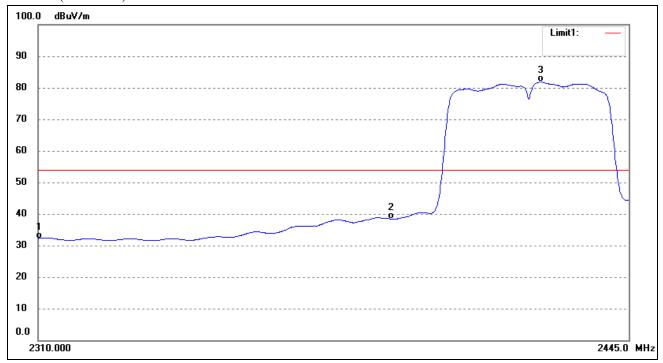
802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
1	2463.60	91.82	-7.31	84.51	/	/	Average Detector	
	2463.80	102.55	-7.31	95.24	/	/	Peak Detector	
2	2483.50	39.62	-7.28	32.34	54.00	-21.66	Average Detector	
	2483.50	56.55	-7.28	49.27	74.00	-24.73	Peak Detector	
3	2500.00	39.12	-7.25	31.87	54.00	-22.13	Average Detector	
	2500.00	52.87	-7.25	45.62	74.00	-28.38	Peak Detector	



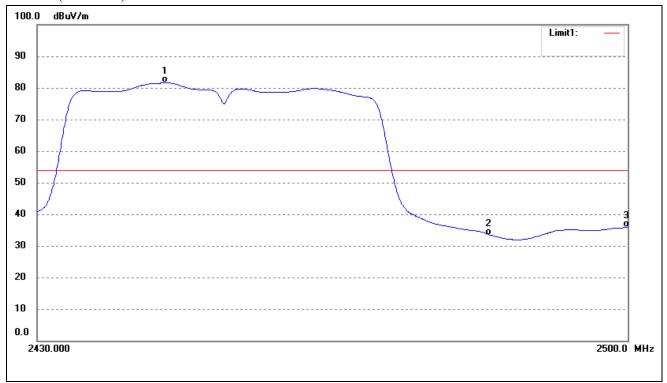
802.11n-HT40-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
1	2310.00	38.62	-6.38	32.24	54.00	-21.76	Average Detector	
	2310.00	50.53	-6.38	44.15	74.00	-29.85	Peak Detector	
2	2390.00	45.69	-7.26	38.43	54.00	-15.57	Average Detector	
	2390.00	66.15	-7.26	58.89	74.00	-15.11	Peak Detector	
3	2424.40	89.22	-7.38	81.84	/	/	Average Detector	
	2424.53	99.76	-7.38	92.38	/	/	Peak Detector	



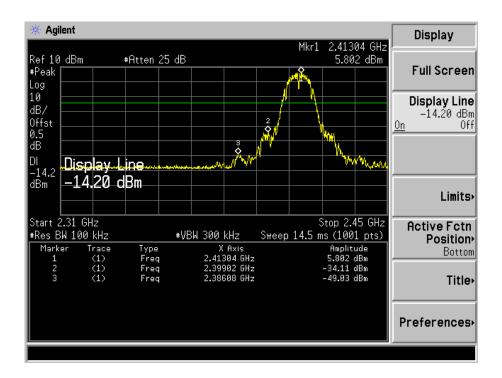
802.11n-HT40-Highest Bandedge

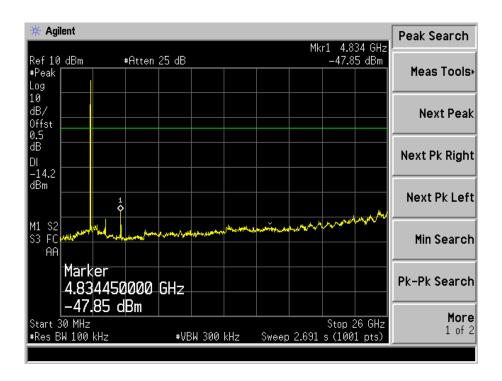


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
1	2445.02	88.98	-7.35	81.63	/	/	Average Detector	
	2444.40	99.52	-7.35	92.17	/	/	Peak Detector	
2	2483.50	40.73	-7.28	33.45	54.00	-20.55	Average Detector	
	2483.50	59.40	-7.28	52.12	74.00	-21.88	Peak Detector	
3	2500.00	43.22	-7.25	35.97	54.00	-18.03	Average Detector	
	2500.00	62.60	-7.25	55.35	74.00	-18.65	Peak Detector	



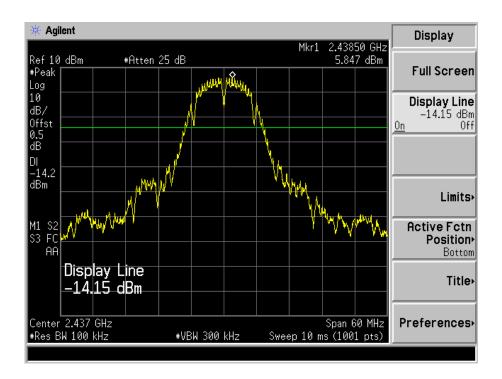
Spurious (Conducted) 802.11b-Lowest Lowest

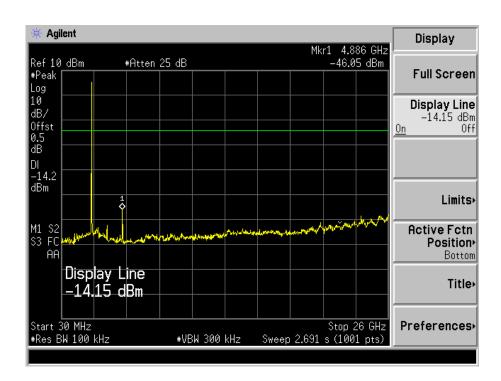






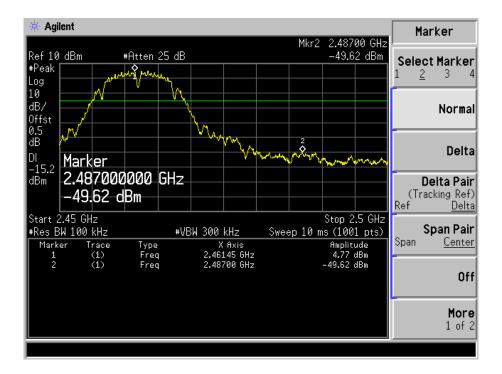
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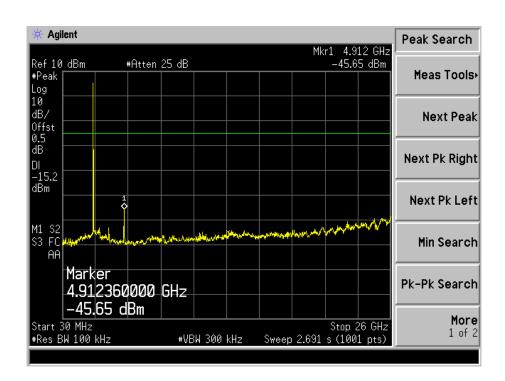






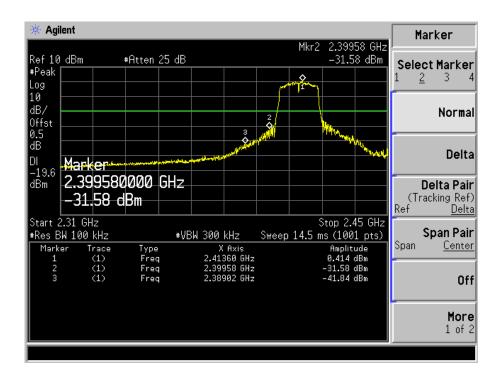
Highest

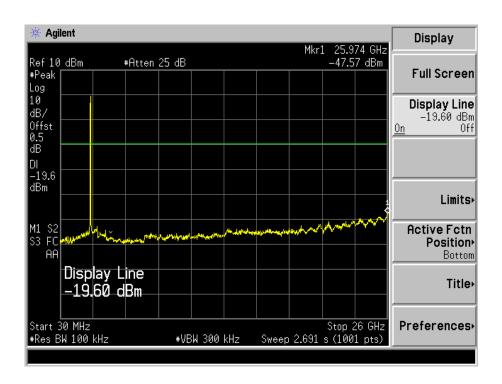






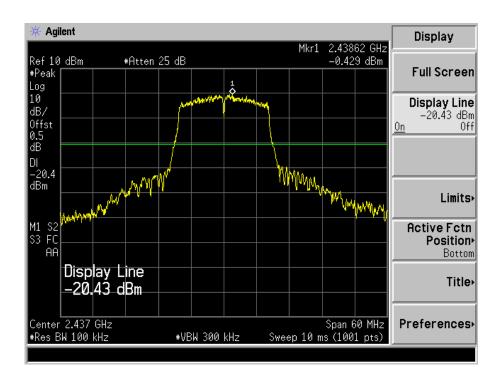
Spurious (Conducted) 802.11g-Lowest Lowest

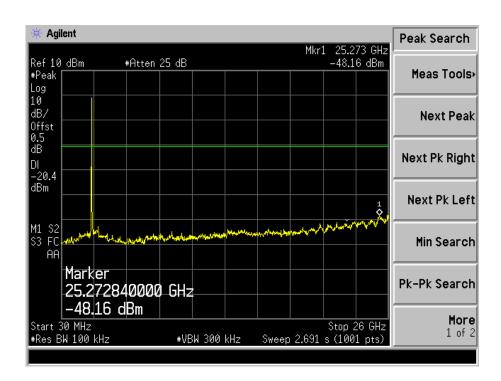






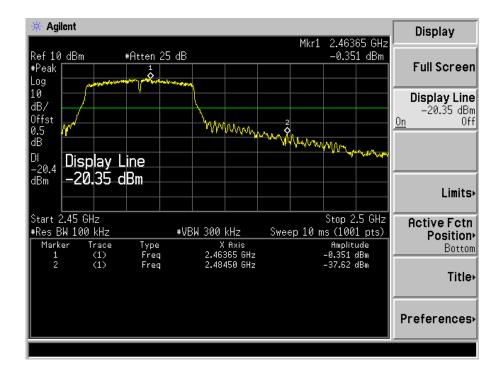
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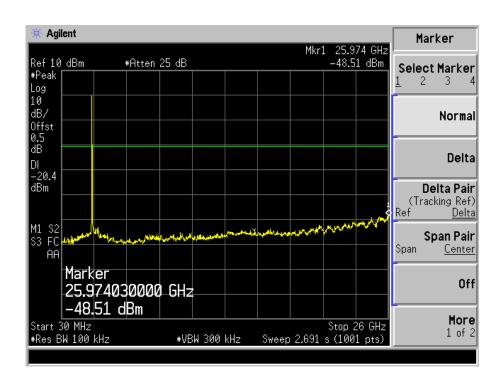






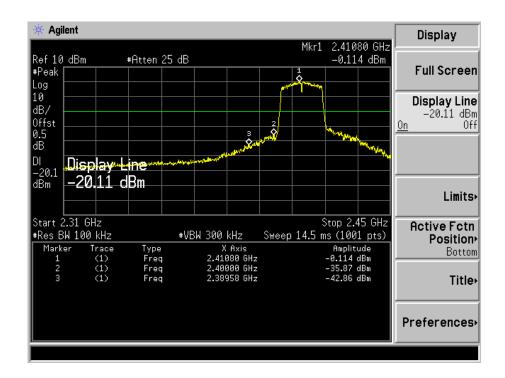
Highest

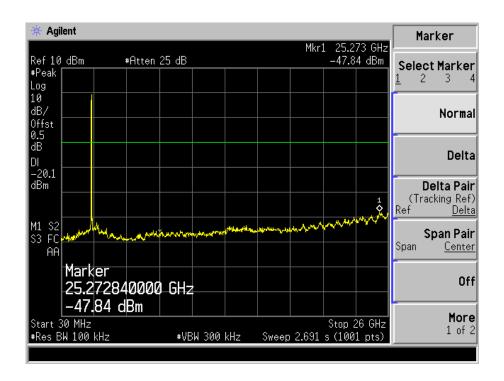






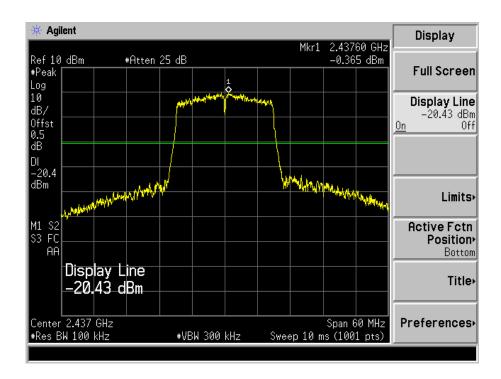
Spurious (Conducted) 802.11n-HT20-Lowest Lowest

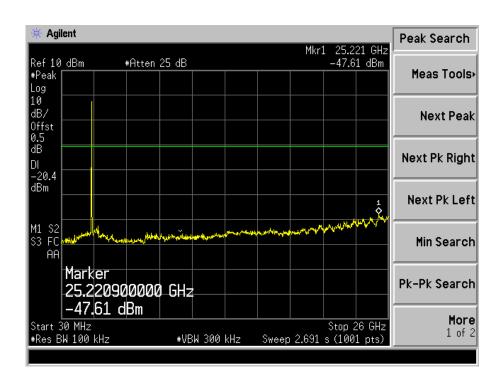






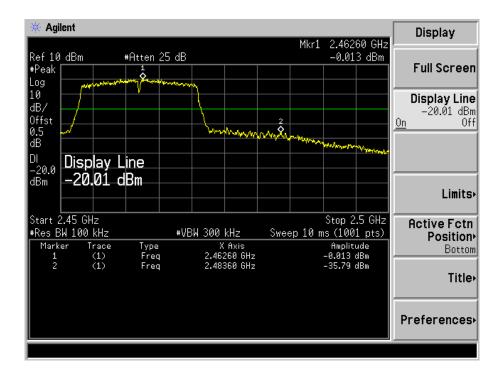
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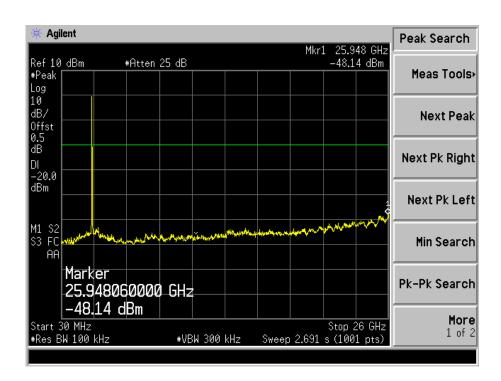






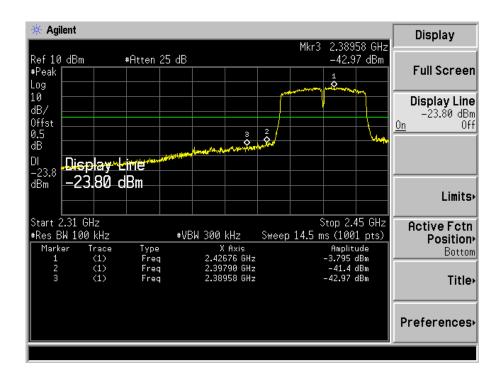
Highest

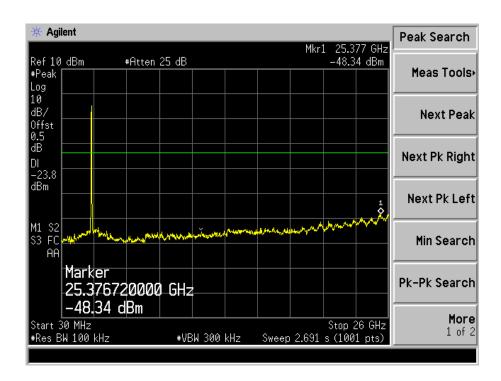






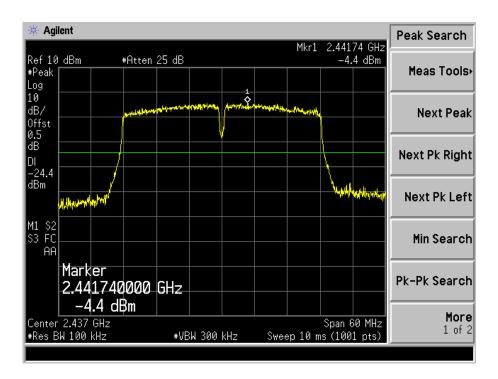
Spurious (Conducted) 802.11n-HT40-Lowest Lowest

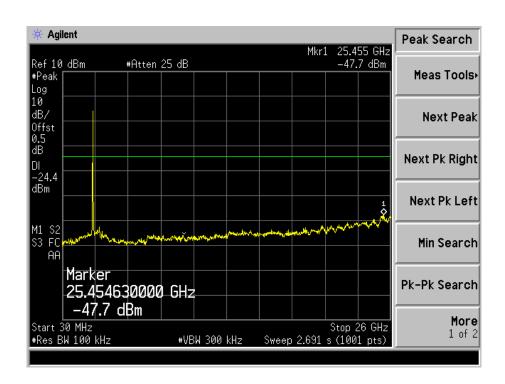






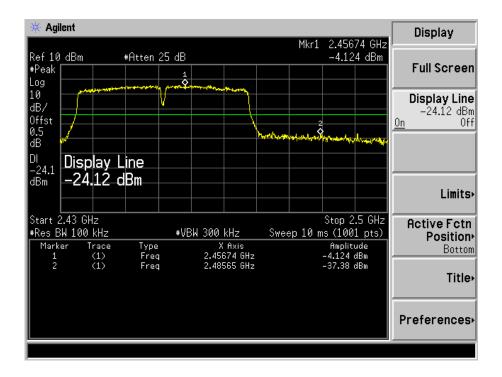
Middle

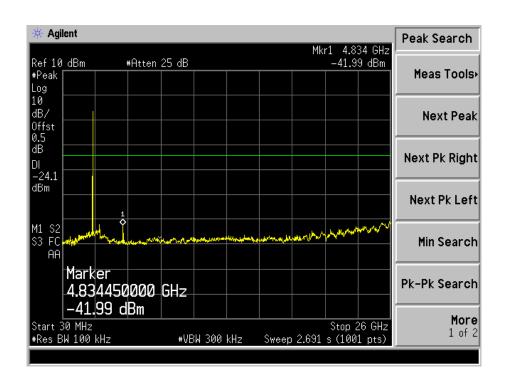






Highest







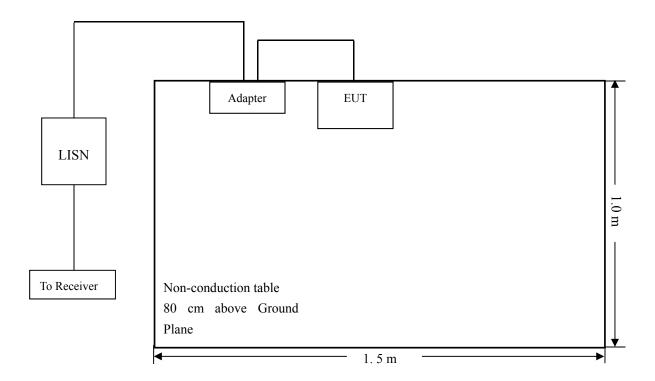
10. Conducted Emissions

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

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Model: L5c

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 <u>complied with the FCC Part 15.207</u> Conducted margin for this device, with the *worst* margin reading of:

-16.70 dB at 0.5020 MHz in the Neutral mode, QP detector, 0.15-30MHz

10.6 Conducted Emissions Test Data

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Plot of Conducted Emissions Test Data

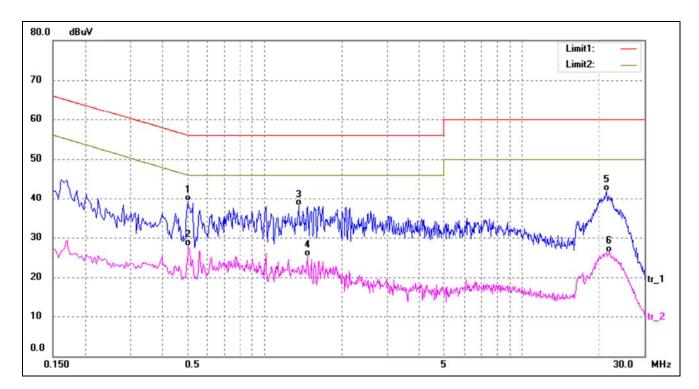
EUT: Mobile phone

Tested Model: L5c

Operating Condition: Transmitting(Wi-Fi)

Comment: AC 120V/60Hz; Adapter DC 5V

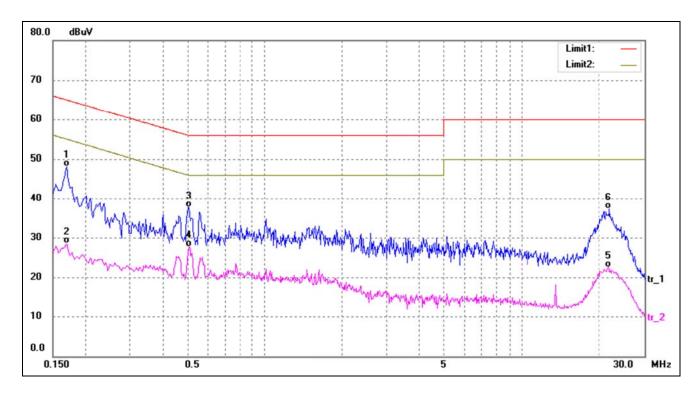
Test Specification: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.5020	29.50	9.80	39.30	56.00	-16.70	QP
2	0.5060	18.16	9.80	27.96	46.00	-18.04	AVG
3	1.3540	28.31	9.75	38.06	56.00	-17.94	QP
4	1.4660	15.52	9.75	25.27	46.00	-20.73	AVG
5	21.5420	32.20	9.68	41.88	60.00	-18.12	QP
6	22.0780	16.68	9.68	26.36	50.00	-23.64	AVG



Test Specification: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1700	38.21	9.83	48.04	64.96	-16.92	QP
2	0.1700	18.73	9.83	28.56	54.96	-26.40	AVG
3	0.5020	27.93	9.80	37.73	56.00	-18.27	QP
4	0.5100	17.96	9.80	27.76	46.00	-18.24	AVG
5	21.7700	12.92	9.68	22.60	50.00	-27.40	AVG
6	22.0060	27.54	9.68	37.22	60.00	-22.78	QP

Note: Test for 120V/240V, the worst case is 120V, and the 240V data is not show.

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