

FCC Part 15C Measurement and Test Report

For

Inspero Inc.

Yanqi Street No. 31, Yanqi Economic Development Zone, Huairou District,

Beijing

FCC ID: 2AHJ6-HEARABLE

FCC Rule(s): FCC Part 15C

Product Description: VINCI Hearable

Tested Model: Hearable 1.0

Report No.: STR16028058I-2

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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: Inspero Inc.

Address of applicant: Yanqi Street No. 31, Yanqi Economic Development Zone,

Huairou District, Beijing

Manufacturer: Inspero Inc.

Address of manufacturer: Yanqi Street No. 31, Yanqi Economic Development Zone,

Huairou District, Beijing

General Description of EU	Т
Product Name:	VINCI Hearable
Brand Name:	VINCI
Model No.:	Hearable 1.0
Adapter Model:	Model:TS-C051
	INPUT:100-240V,50/60Hz,0.15A; OUTPUT:5V,1A
Hardware version:	vinci 1.0
Software version:	vinci 0.9
Rated Voltage:	DC 3.7V Li-ion Battery
Battery:	2000mAh
Device Category:	Portable Device
Device Category:	Portable Device

The EUT Main board support GPRS 850/900/ GPRS 1800/ GPRS 1900, WCDMA Band 1/5 function. It is intended for Multimedia Message Service (MMS) transmission. It is equipped with GPRS class 12 for GPRS 850/900/ GPRS 1800/ GPRS 1900, GPS and Wi-Fi functions. For more information see the following datasheet 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 Bango:	2412-2462MHz for 802.11b/g/n(HT20)	
Frequency Range:	2422-2452MHz for 802.11n(HT40)	
RF Output Power:	13.16dBm (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	
Antenna Gain:	-3.0dBi	



1.2 Test Standards

The following report is prepared on behalf of the Inspero 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 v03r04 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC - Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

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

CNAS Registration No.: L4062

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



1.5 EUT Setup and Test Mode

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

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

EUT Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	
USB Cable	0.8	Unshielded	Without Ferrite	

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

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

1.6 Measurement Uncertainty

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



1.7 Test Equipment List and Details

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



2. SUMMARY OF TEST RESULTS

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

N/A: not applicable



3. RF Exposure

3.1 Standard Applicable

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

3.2 Test Result

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



4. Antenna Requirement

4.1 Standard Applicable

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

4.2 Evaluation Information

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



5. Power Spectral Density

5.1 Standard Applicable

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

5.2 Test Procedure

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

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW ≥ 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



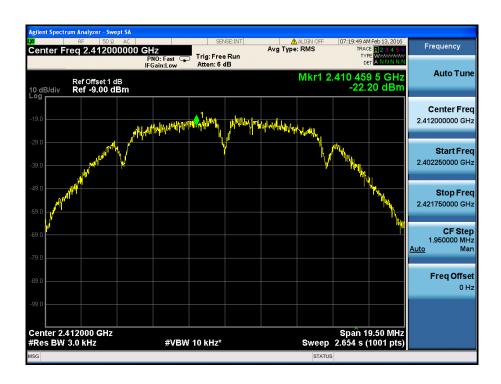
5.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	-22.20	8
802.11b	2437	-17.46	8
	2462	-17.07	8
	2412	-21.93	8
802.11g	2437	-22.08	8
	2462	-21.59	8
	2412	-22.83	8
802.11n HT20	2437	-22.30	8
	2462	-22.01	8
802.11n HT40	2422	-27.76	8
	2437	-27.13	8
	2452	-27.16	8

Please refer to the following test plots:



802.11b-Low Channel



802.11b-Middle Channel

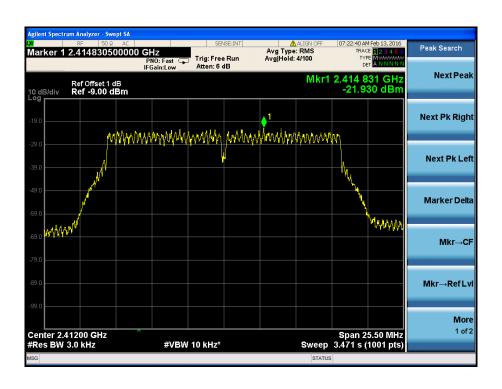




802.11b-High Channel



802.11g-Low Channel

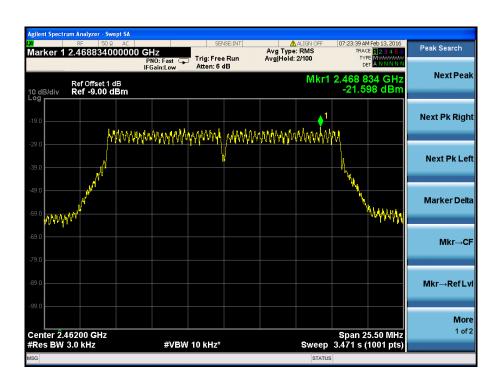




802.11g-Middle Channel



802.11g-High Channel

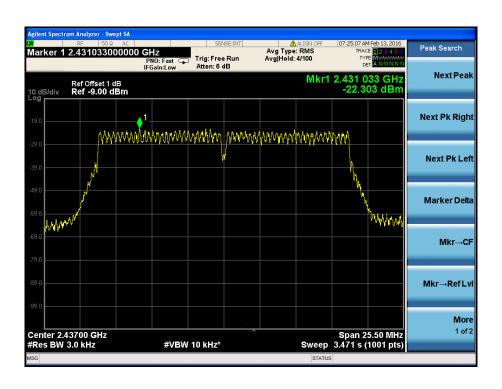




802.11n-HT20-Low Channel

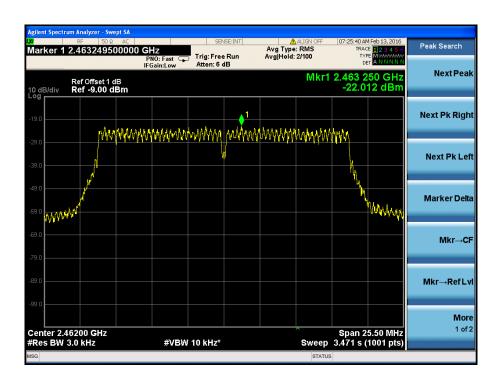


802.11n-HT20-Middle Channel

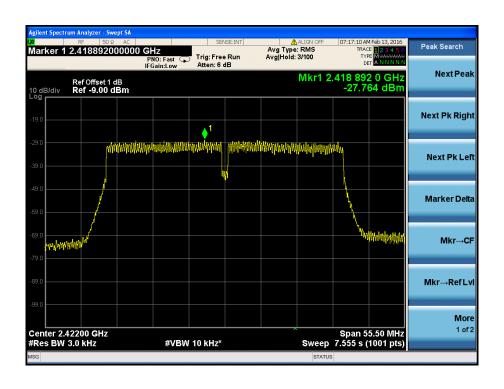




802.11n-HT20-High Channel

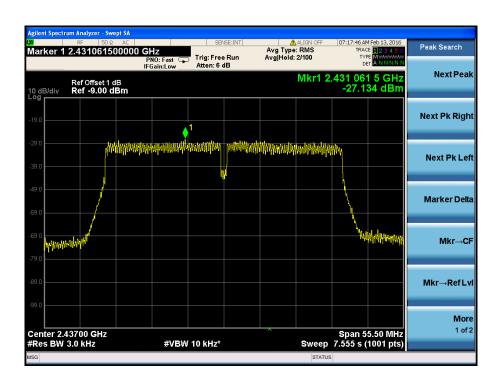


802.11n-HT40-Low Channel

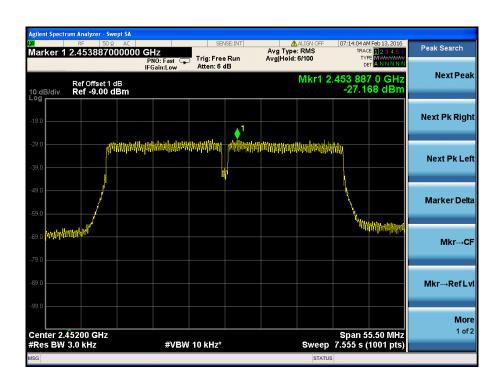




802.11n-HT40-Middle Channel



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	
lest Mode	MHz	MHz	MHz	kHz	
	2412	9.755	12.367	≥500	
802.11b	2437	9.717	12.414	≥500	
	2462	9.758	12.407	≥500	
	2412	16.57	16.442	≥500	
802.11g	2437	16.57	16.446	≥500	
	2462	16.58	16.449	≥500	
	2412	17.81	17.644	≥500	
802.11n-HT20	2437	17.82	17.649	≥500	
	2462	17.80	17.652	≥500	
	2422	36.51	36.131	≥500	
802.11n-HT40	2437	36.52	36.152	≥500	
	2452	36.52	36.160	≥500	

Please refer to the following test plots:



802.11b-Low Channel



802.11b-Middle Channel





802.11b-High Channel

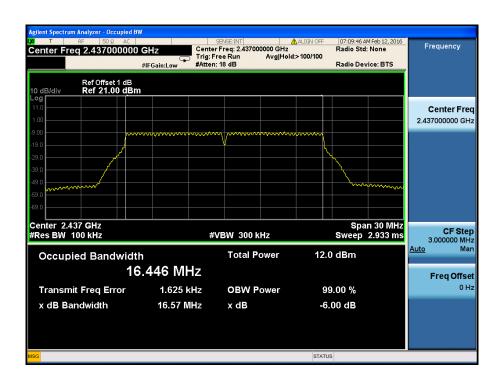


802.11g-Low Channel





802.11g-Middle Channel

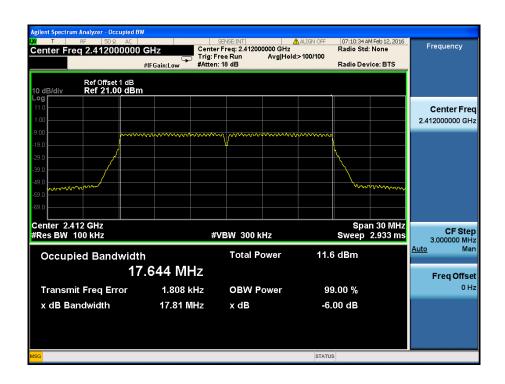


802.11g-High Channel





802.11n-HT20-Low Channel

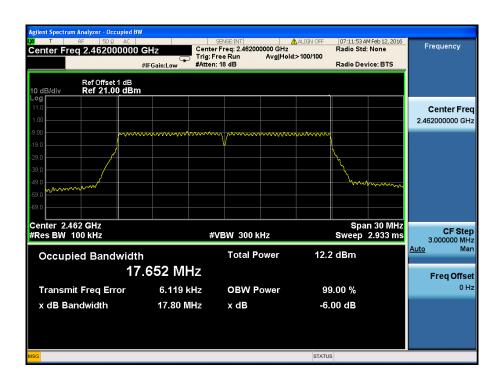


802.11n-HT20-Middle Channel





802.11n-HT20-High Channel

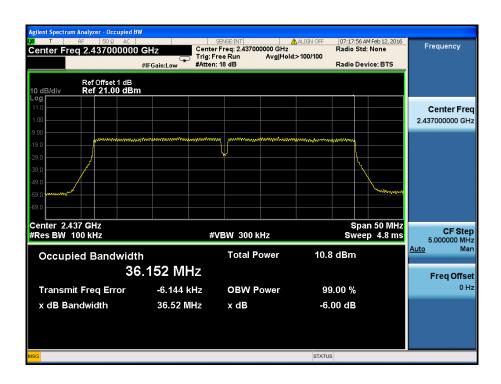


802.11n-HT40-Low Channel





802.11n-HT40-Middle Channel



802.11n-HT40-High Channel





7. RF Output Power

7.1 Standard Applicable

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

7.2 Test Procedure

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

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times RBW$.
- d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \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



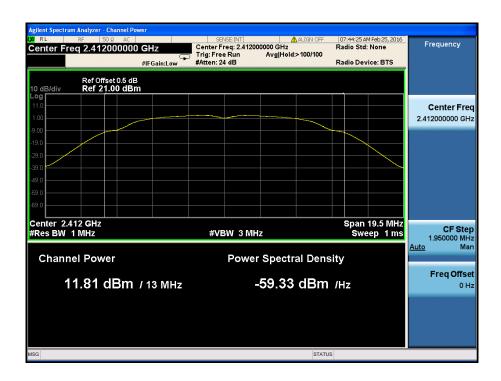
7.4 Summary of Test Results/Plots

Test Mode	Frequency	Reading	Output Power	Limit	
Test Mode	MHz	dBm	mW	mW	
	2412	11.81	15.17	1000	
802.11b _ 11Mbps	2437	12.62	18.28	1000	
	2462	13.16	20.70	1000	
	2412	11.00	12.59	1000	
802.11g_54Mbps	2437	11.19	13.15	1000	
	2462	10.96	12.47	1000	
	2412	10.11	10.26	1000	
802.11n HT20_MCS7	2437	11.73	14.89	1000	
	2462	11.66	14.66	1000	
	2422	8.62	7.28	1000	
802.11n HT40_MCS7	2437	11.69	14.76	1000	
	2452	9.16	8.24	1000	

Please refer to the following test plots:



802.11b-11Mbps-Low Channel

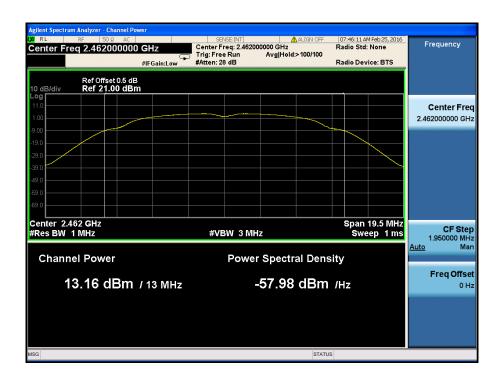


802.11b -11Mbps-Middle Channel

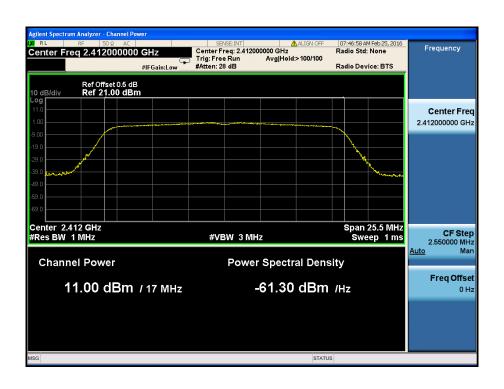




802.11b -11Mpbs-High Channel



802.11g-54Mbps-Low Channel





802.11g-54Mbps-Middle Channel

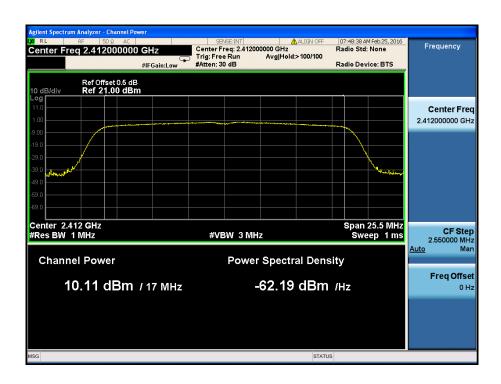


802.11g-54Mpbs-High Channel

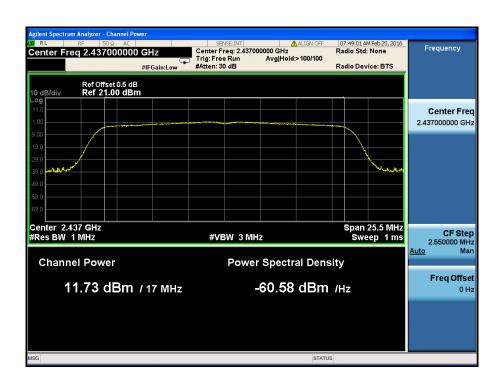




802.11n-HT20-MCS7-Low Channel

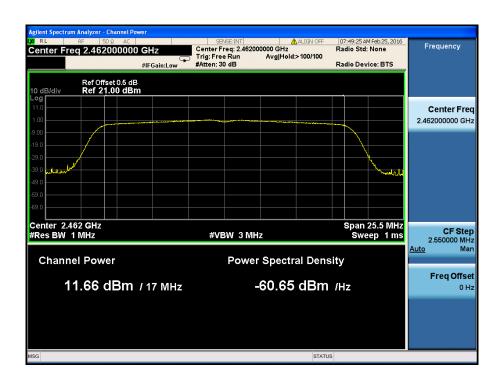


802.11n-HT20-MCS7-Middle Channel





802.11n-HT20-MCS7-High Channel

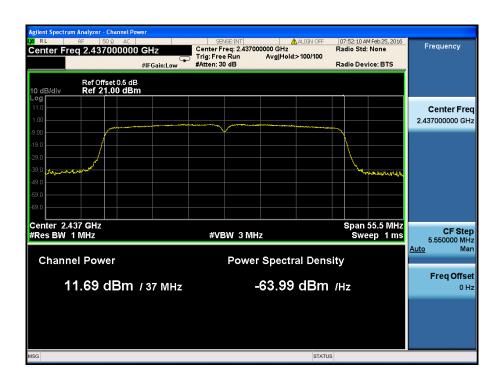


802.11n-HT40-MCS7-Low Channel

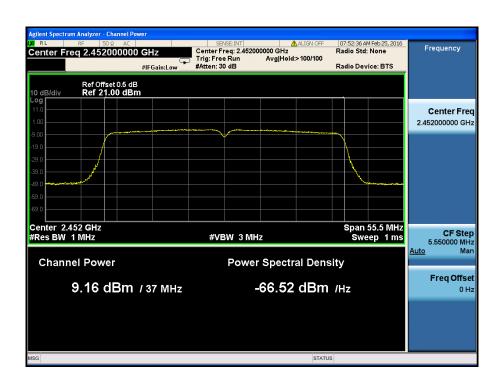




802.11n-HT40-MCS7-Middle Channel



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.

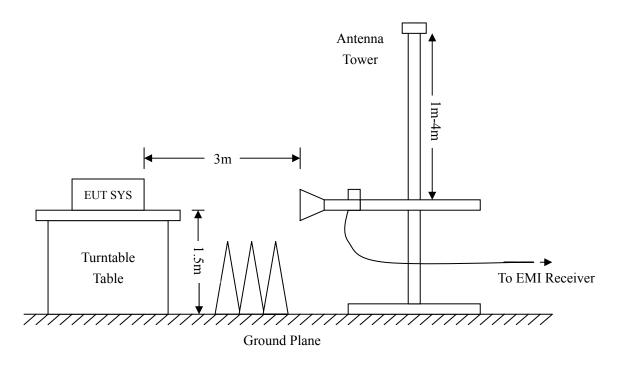
8.2 Test Procedure

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

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







Frequency:9kHz-30MHz	Frequency:30MHz-1GHz	Frequency : Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	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



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, the **antenna vertically** is worst case position and the data was reported.

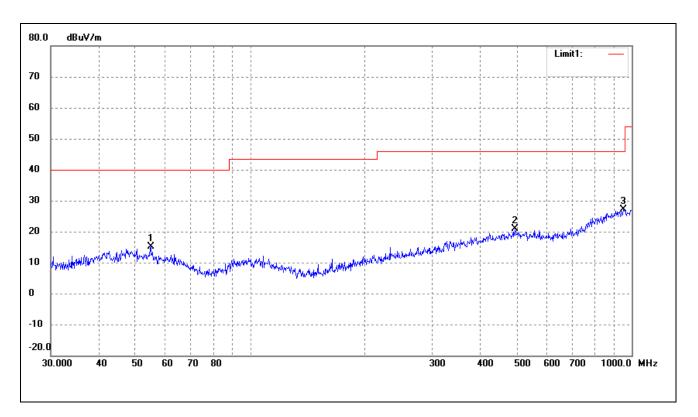
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: VINCI Hearable
Tested Model: Hearable 1.0

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

Comment: Battery: DC3.7V

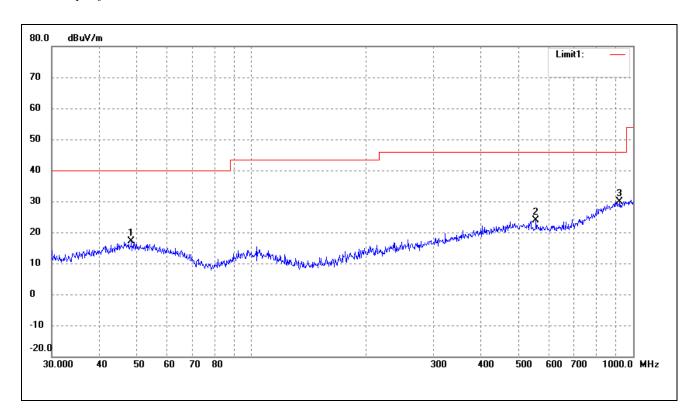
Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	54.8348	23.04	-7.93	15.11	40.00	-24.89	162	100	QP
2	494.1984	22.02	-1.26	20.76	46.00	-25.24	200	100	QP
3	952.0937	21.23	5.96	27.19	46.00	-18.81	359	200	QP



Test Specification: Vertical

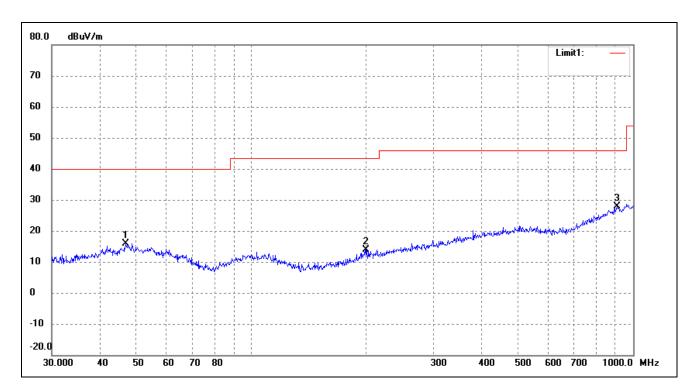


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	48.5016	24.70	-7.45	17.25	40.00	-22.75	240	100	QP
2	556.7744	23.61	0.27	23.88	46.00	-22.12	187	100	QP
3	922.5157	24.30	5.63	29.93	46.00	-16.07	220	100	QP



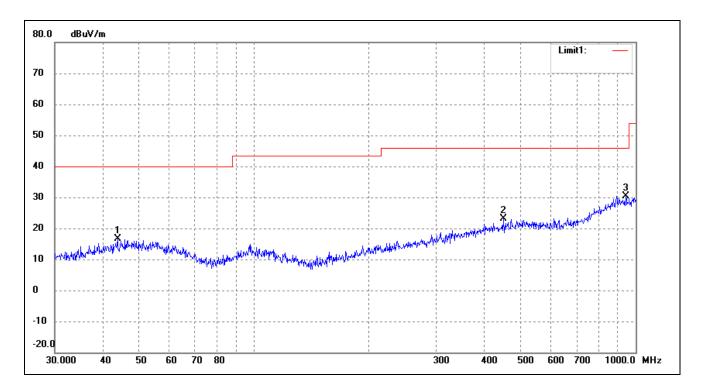
Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	46.8303	23.34	-7.45	15.89	40.00	-24.11	148	100	QP
2	199.9856	23.06	-9.06	14.00	43.50	-29.50	154	100	QP
3	906.4824	22.37	5.45	27.82	46.00	-18.18	168	100	QP



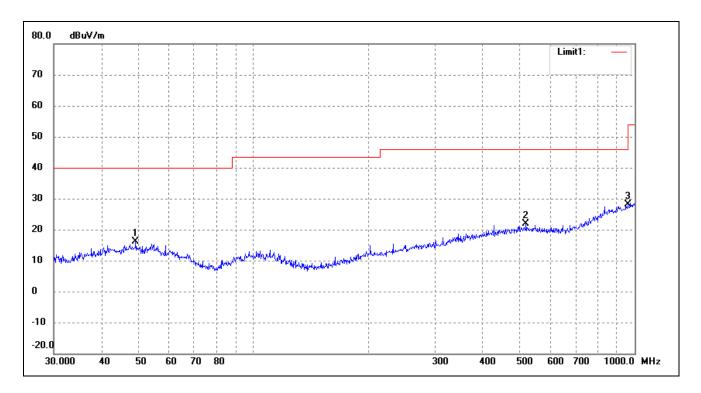


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	43.8119	24.38	-7.71	16.67	40.00	-23.33	125	100	QP
2	449.5558	25.41	-2.17	23.24	46.00	-22.76	102	100	QP
3	942.1305	24.54	5.84	30.38	46.00	-15.62	185	100	QP



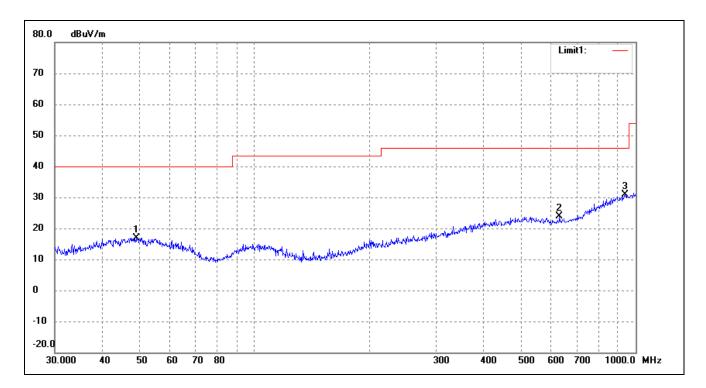
Operating Condition: 802.11b Transmitting High Channel-2462MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	49.1866	23.48	-7.45	16.03	40.00	-23.97	148	100	QP
2	519.0649	23.02	-1.22	21.80	46.00	-24.20	152	100	QP
3	958.7943	22.08	6.06	28.14	46.00	-17.86	136	100	QP





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	49.0145	24.42	-7.44	16.98	40.00	-23.02	168	100	QP
2	631.6884	22.27	1.59	23.86	46.00	-22.14	152	100	QP
3	938.8326	24.96	5.81	30.77	46.00	-15.23	178	100	QP



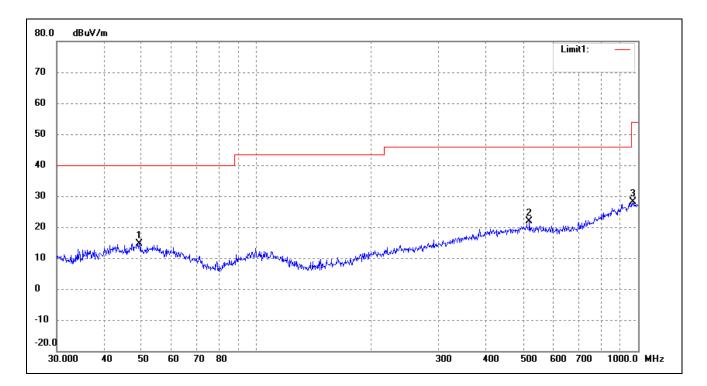
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: 4G Smart Phone

Tested Model: Alba 5400

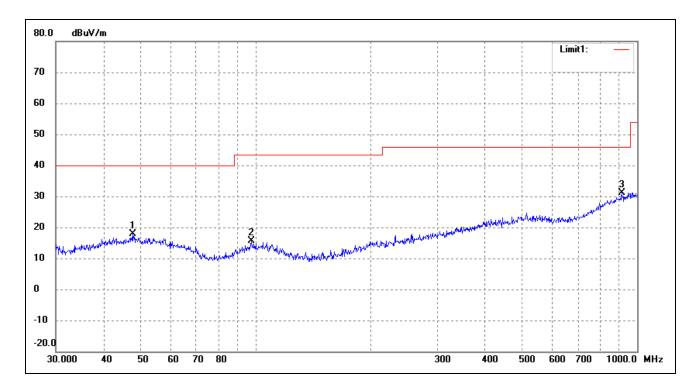
Operating Condition: 802.11g Transmitting Low Channel-2412MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	49.3594	22.05	-7.45	14.60	40.00	-25.40	102	100	QP
2	519.0649	22.99	-1.22	21.77	46.00	-24.23	140	100	QP
3	968.9338	21.83	6.21	28.04	54.00	-25.96	255	100	QP



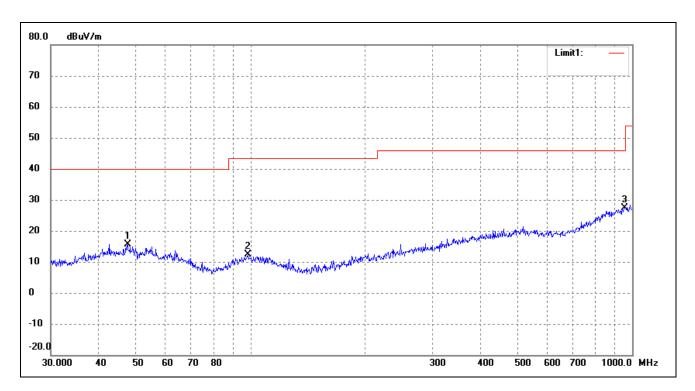


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	47.6586	25.22	-7.46	17.76	40.00	-22.24	148	100	QP
2	97.4560	25.62	-9.87	15.75	43.50	-27.75	250	100	QP
3	912.8620	25.65	5.53	31.18	46.00	-14.82	165	100	QP



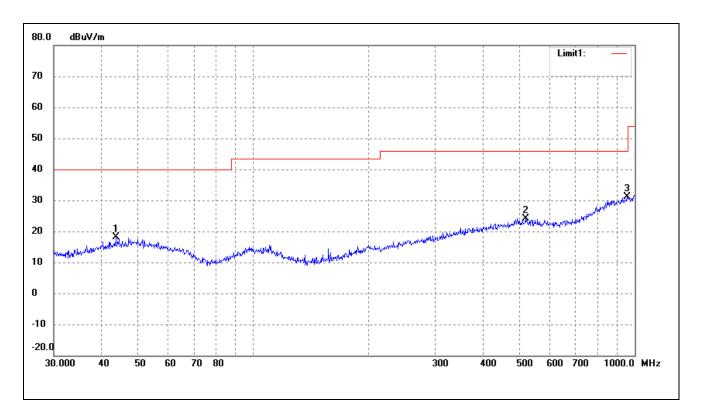
Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.6586	23.20	-7.46	15.74	40.00	-24.26	270	100	QP
2	98.4866	22.11	-9.75	12.36	43.50	-31.14	160	100	QP
3	955.4381	21.45	6.01	27.46	46.00	-18.54	228	200	QP



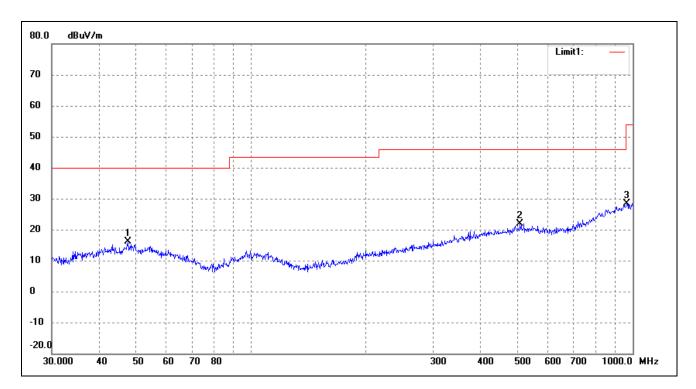


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	43.6585	25.89	-7.73	18.16	40.00	-21.84	360	100	QP
2	517.2480	24.85	-0.68	24.17	46.00	-21.83	120	100	QP
3	955.4381	25.13	6.01	31.14	46.00	-14.86	270	100	QP



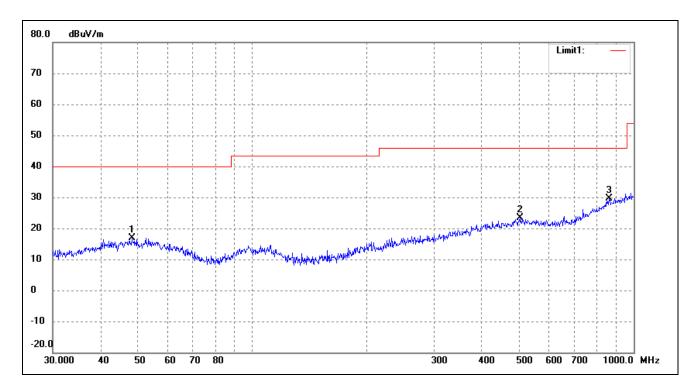
Operating Condition: 802.11g Transmitting High Channel-2462MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.4918	23.48	-7.45	16.03	40.00	-23.97	270	100	QP
2	506.4791	23.03	-1.16	21.87	46.00	-24.13	150	100	QP
3	965.5421	22.32	6.16	28.48	54.00	-25.52	360	100	QP





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	48.3318	24.38	-7.45	16.93	40.00	-23.07	360	100	QP
2	502.9395	24.35	-1.05	23.30	46.00	-22.70	180	100	QP
3	863.0562	25.03	4.65	29.68	46.00	-16.32	120	100	QP



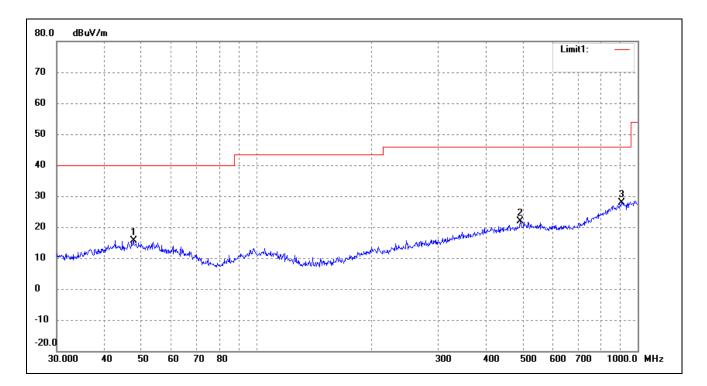
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: 4G Smart Phone

Tested Model: Alba 5400

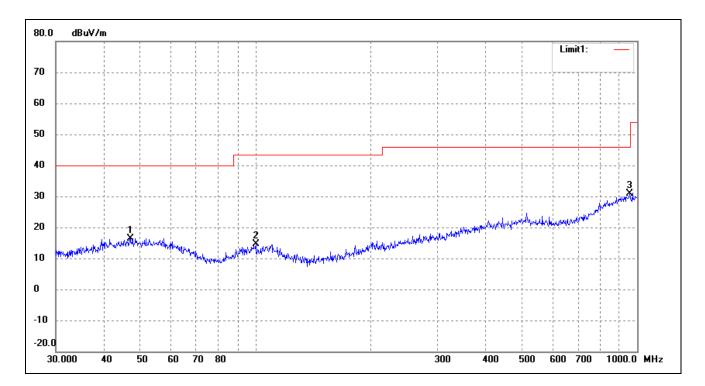
Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz

Comment: Battery: DC3.7V



	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
Ī	1	47.6586	23.20	-7.46	15.74	40.00	-24.26	260	100	QP
Ī	2	492.4685	23.09	-1.29	21.80	46.00	-24.20	120	200	QP
ĺ	3	909.6667	22.45	5.49	27.94	46.00	-18.06	289	200	QP



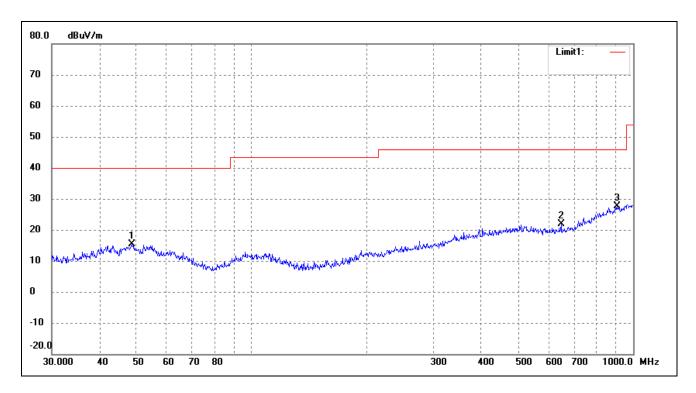


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	46.9948	23.90	-7.45	16.45	40.00	-23.55	130	100	QP
2	100.2286	24.30	-9.56	14.74	43.50	-28.76	120	100	QP
3	955.4381	24.85	6.01	30.86	46.00	-15.14	360	100	QP



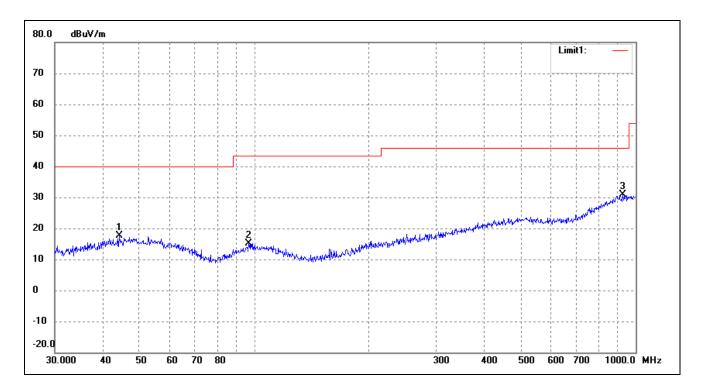
Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2437MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	48.6719	22.73	-7.45	15.28	40.00	-24.72	274	100	QP
2	647.3856	23.06	-1.18	21.88	46.00	-24.12	130	100	QP
3	906.4824	22.26	5.45	27.71	46.00	-18.29	120	100	QP



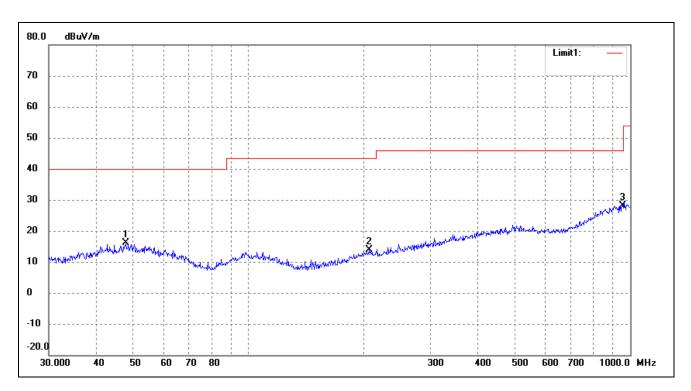


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	44.2752	25.36	-7.61	17.75	40.00	-22.25	360	100	peak
2	96.7749	24.98	-9.95	15.03	43.50	-28.47	110	100	peak
3	925.7563	25.24	5.66	30.90	46.00	-15.10	120	100	peak



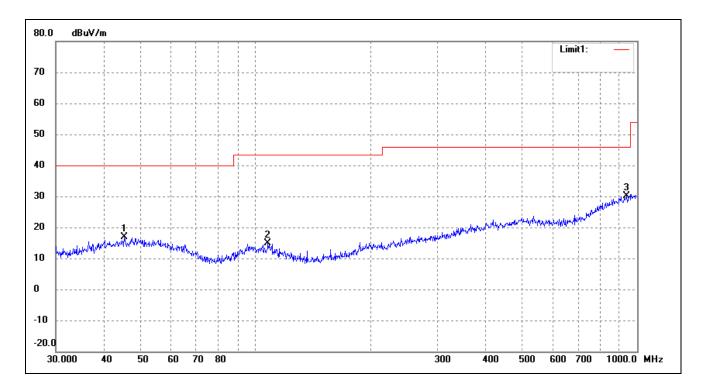
Operating Condition: 802.11n-HT20 Transmitting High Channel-2462MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.8260	23.49	-7.46	16.03	40.00	-23.97	360	100	QP
2	207.1226	22.98	-9.01	13.97	43.50	-29.53	138	100	QP
3	955.4381	22.10	6.01	28.11	46.00	-17.89	180	200	QP





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	45.3755	24.37	-7.46	16.91	40.00	-23.09	270	100	QP
2	107.8877	24.55	-9.59	14.96	43.50	-28.54	120	100	QP
3	938.8326	24.35	5.81	30.16	46.00	-15.84	360	100	QP

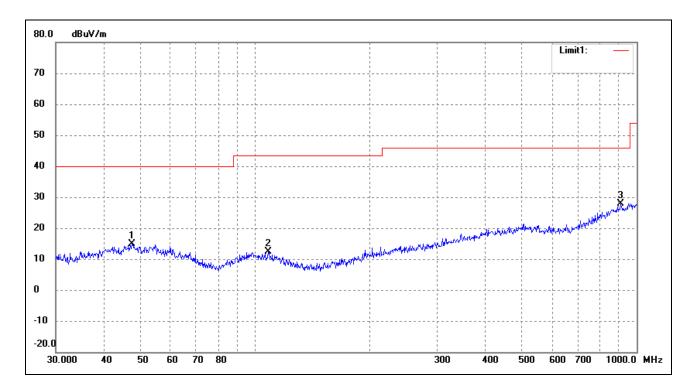


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: VINCI Hearable
Tested Model: Hearable 1.0

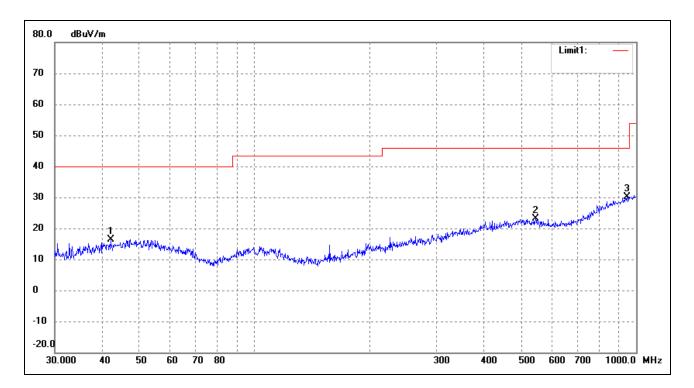
Operating Condition: 802.11n-HT40 Transmitting Low Channel-2422MHz

Comment: Battery: DC3.7V



N	lo.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
	1	47.4918	22.38	-7.45	14.93	40.00	-25.07	155	100	QP
	2	108.2667	21.86	-9.59	12.27	43.50	-31.23	197	100	QP
	3	906.4824	22.37	5.45	27.82	46.00	-18.18	310	100	QP



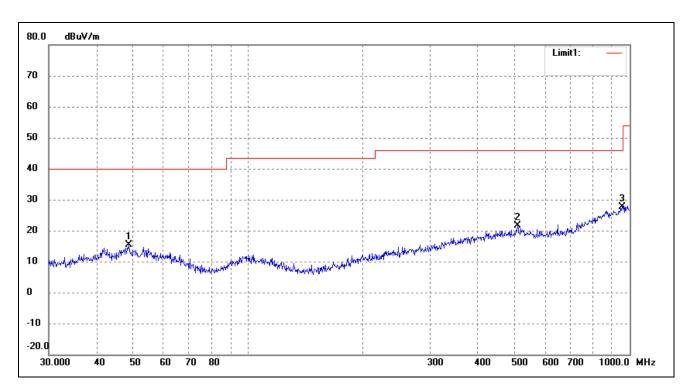


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	42.0066	24.55	-8.05	16.50	40.00	-23.50	274	100	QP
2	545.1826	23.10	0.02	23.12	46.00	-22.88	116	100	QP
3	945.4399	24.13	5.88	30.01	46.00	-15.99	82	100	QP



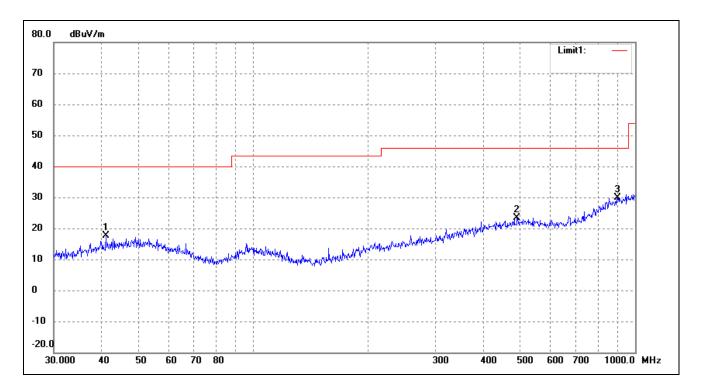
Operating Condition: 802.11n-HT40 Transmitting Middle Channel-2437MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	48.6719	22.73	-7.45	15.28	40.00	-24.72	274	100	QP
2	508.2582	22.70	-1.17	21.53	46.00	-24.47	130	100	QP
3	955.4381	21.63	6.01	27.64	46.00	-18.36	120	100	QP



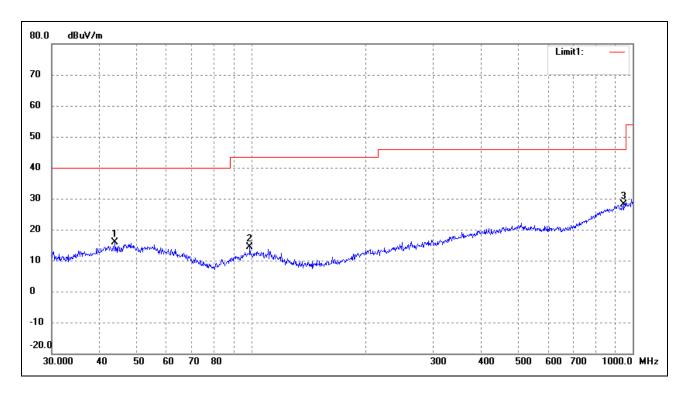


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	41.1320	25.84	-8.21	17.63	40.00	-22.37	360	100	QP
2	490.7447	24.76	-1.33	23.43	46.00	-22.57	110	100	QP
3	900.1474	24.56	5.38	29.94	46.00	-16.06	120	100	QP



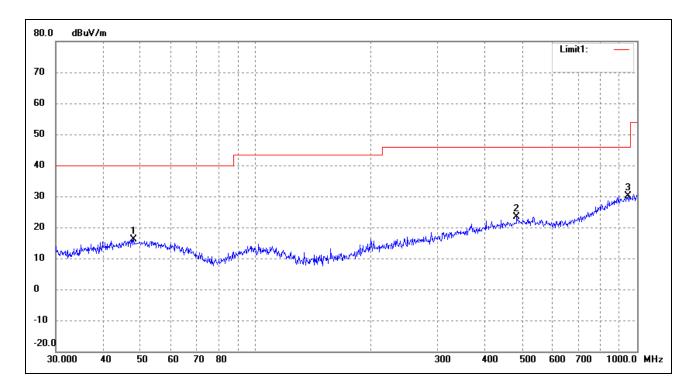
Operating Condition: 802.11n-HT40 Transmitting High Channel-2452MHz

Comment: Battery: DC3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	43.9658	23.55	-7.68	15.87	40.00	-24.13	264	100	QP
2	99.1797	23.95	-9.66	14.29	43.50	-29.21	110	100	QP
3	948.7610	22.21	5.92	28.13	46.00	-17.87	136	100	QP





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.9940	23.63	-7.46	16.17	40.00	-23.83	360	100	QP
2	483.9094	24.85	-1.49	23.36	46.00	-22.64	112	100	QP
3	945.4399	24.33	5.88	30.21	46.00	-15.79	180	200	QP



Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			1
4824.000	54.09	-3.87	50.22	74.00	-23.78	Н	PK
4824.000	38.84	-3.87	34.97	54.00	-19.03	Н	AV
7236.000	46.30	1.14	47.44	74.00	-26.56	Н	PK
7236.000	34.98	1.19	36.17	54.00	-17.83	Н	AV
4824.000	57.31	-3.86	53.45	74.00	-20.55	V	PK
4824.000	40.50	-3.86	36.64	54.00	-17.36	V	AV
7236.000	49.11	1.10	50.21	74.00	-23.79	V	PK
7236.000	37.44	1.10	38.54	54.00	-15.46	V	AV
			Middle Chan	nel-2442MHz			
4874.000	54.74	-3.74	51.00	74.00	-23.00	Н	PK
4874.000	39.99	-3.74	36.25	54.00	-17.75	Н	AV
7311.000	47.77	1.47	49.24	74.00	-24.76	Н	PK
7311.000	33.10	1.47	34.57	54.00	-19.43	Н	AV
4874.000	53.97	-3.74	50.23	74.00	-23.77	V	PK
4874.000	40.89	-3.74	37.15	54.00	-16.85	V	AV
7311.000	47.98	1.47	49.45	74.00	-24.55	V	PK
7311.000	34.08	1.47	35.55	54.00	-18.45	V	AV
			High Chann	el-2472MHz			
4924.000	55.82	-3.59	52.23	74.00	-21.77	Н	PK
4924.000	41.76	-3.59	38.17	54.00	-15.83	Н	AV
7386.000	46.38	1.79	48.17	74.00	-25.83	Н	PK
7386.000	34.83	1.79	36.62	54.00	-17.38	Н	AV
4924.000	54.94	-3.59	51.35	74.00	-22.65	V	PK
4924.000	42.04	-3.59	38.45	54.00	-15.55	V	AV
7386.000	47.99	1.79	49.78	74.00	-24.22	V	PK
7386.000	35.18	1.79	36.97	54.00	-17.03	V	AV



Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			
4824.000	55.50	-3.86	51.64	74.00	-22.36	Н	PK
4824.000	42.23	-3.86	38.37	54.00	-15.63	Н	AV
7236.000	48.42	1.10	49.52	74.00	-24.48	Н	PK
7236.000	34.40	1.10	35.50	54.00	-18.50	Н	AV
4824.000	55.99	-3.86	52.13	74.00	-21.87	V	PK
4824.000	42.65	-3.86	38.79	54.00	-15.21	V	AV
7236.000	49.22	1.10	50.32	74.00	-23.68	V	PK
7236.000	35.54	1.10	36.64	54.00	-17.36	V	AV
			Middle Chan	nel-2442MHz			
4874.000	55.10	-3.74	51.36	74.00	-22.64	Н	PK
4874.000	43.28	-3.74	39.54	54.00	-14.46	Н	AV
7311.000	47.38	1.47	48.85	74.00	-25.15	Н	PK
7311.000	35.27	1.47	36.74	54.00	-17.26	Н	AV
4874.000	57.07	-3.74	53.33	74.00	-20.67	V	PK
4874.000	43.86	-3.74	40.12	54.00	-13.88	V	AV
7311.000	48.40	1.47	49.87	74.00	-24.13	V	PK
7311.000	35.33	1.47	36.80	54.00	-17.20	V	AV
			High Chann	el-2472MHz			
4924.000	54.00	-3.59	50.41	74.00	-23.59	Н	PK
4924.000	40.75	-3.59	37.16	54.00	-16.84	Н	AV
7386.000	47.18	1.79	48.97	74.00	-25.03	Н	PK
7386.000	34.73	1.79	36.52	54.00	-17.48	Н	AV
4924.000	56.11	-3.59	52.52	74.00	-21.48	V	PK
4924.000	42.69	-3.59	39.10	54.00	-14.90	V	AV
7386.000	48.58	1.79	50.37	74.00	-23.63	V	PK
7386.000	35.95	1.79	37.74	54.00	-16.26	V	AV



Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
		•	Low Channe	el-2412MHz			•
4824.000	55.60	-3.86	51.74	74.00	-22.26	Н	PK
4824.000	40.54	-3.86	36.68	54.00	-17.32	Н	AV
7236.000	47.26	1.10	48.36	74.00	-25.64	Н	PK
7236.000	34.44	1.10	35.54	54.00	-18.46	Н	AV
4824.000	56.71	-3.86	52.85	74.00	-21.15	V	PK
4824.000	43.18	-3.86	39.32	54.00	-14.68	V	AV
7236.000	49.21	1.10	50.31	74.00	-23.69	V	PK
7236.000	35.77	1.10	36.87	54.00	-17.13	V	AV
			Middle Chan	nel-2442MHz			
4874.000	54.16	-3.74	50.42	74.00	-23.58	Н	PK
4874.000	42.48	-3.74	38.74	54.00	-15.26	Н	AV
7311.000	48.74	1.47	50.21	74.00	-23.79	Н	PK
7311.000	33.10	1.47	34.57	54.00	-19.43	Н	AV
4874.000	54.92	-3.74	51.18	74.00	-22.82	V	PK
4874.000	42.62	-3.74	38.88	54.00	-15.12	V	AV
7311.000	48.49	1.47	49.96	74.00	-24.04	V	PK
7311.000	35.20	1.47	36.67	54.00	-17.33	V	AV
			High Chann	el-2472MHz			
4924.000	53.90	-3.59	50.31	74.00	-23.69	Н	PK
4924.000	43.23	-3.59	39.64	54.00	-14.36	Н	AV
7386.000	48.31	1.79	50.10	74.00	-23.90	Н	PK
7386.000	36.10	1.79	37.89	54.00	-16.11	Н	AV
4924.000	55.70	-3.59	52.11	74.00	-21.89	V	PK
4924.000	41.48	-3.59	37.89	54.00	-16.11	V	AV
7386.000	48.55	1.79	50.34	74.00	-23.66	V	PK
7386.000	35.36	1.79	37.15	54.00	-16.85	V	AV



Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector		
(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V			
			Low Channe	el-2422MHz					
4844.000	53.25	-3.90	49.35	74.00	-24.65	Н	PK		
4824.000	38.25	-3.90	34.35	54.00	-19.65	Н	AV		
7266.000	46.48	1.06	47.54	74.00	-26.46	Н	PK		
7266.000	32.56	1.06	33.62	54.00	-20.38	Н	AV		
4844.000	54.22	-3.90	50.32	74.00	-23.68	V	PK		
4824.000	39.42	-3.90	35.52	54.00	-18.48	V	AV		
7266.000	48.81	1.06	49.87	74.00	-24.13	V	PK		
7266.000	34.78	1.06	35.84	54.00	-18.16	V	AV		
	Middle Channel-2442MHz								
4874.000	52.53	-3.74	48.79	74.00	-25.21	Н	PK		
4874.000	37.88	-3.74	34.14	54.00	-19.86	Н	AV		
7311.000	44.88	1.47	46.35	74.00	-27.65	Н	PK		
7311.000	32.03	1.47	33.50	54.00	-20.50	Н	AV		
4874.000	53.74	-3.74	50.00	74.00	-24.00	V	PK		
4874.000	39.95	-3.74	36.21	54.00	-17.79	V	AV		
7311.000	45.78	1.47	47.25	74.00	-26.75	V	PK		
7311.000	34.00	1.47	35.47	54.00	-18.53	V	AV		
			High Chann	el-2462MHz					
4904.000	52.65	-3.63	49.02	74.00	-24.98	Н	PK		
4904.000	39.37	-3.63	35.74	54.00	-18.26	Н	AV		
7356.000	45.63	1.62	47.25	74.00	-26.75	Н	PK		
7356.000	30.73	1.62	32.35	54.00	-21.65	Н	AV		
4904.000	54.84	-3.63	51.21	74.00	-22.79	V	PK		
4904.000	40.83	-3.63	37.20	54.00	-16.80	V	AV		
7356.000	48.18	1.62	49.80	74.00	-24.20	V	PK		
7356.000	35.12	1.62	36.74	54.00	-17.26	V	AV		

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3^{th} Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.



9. Out of Band Emissions

9.1 Standard Applicable

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

9.2 Test Procedure

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

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

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

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

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

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



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

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

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

9.3 Environmental Conditions

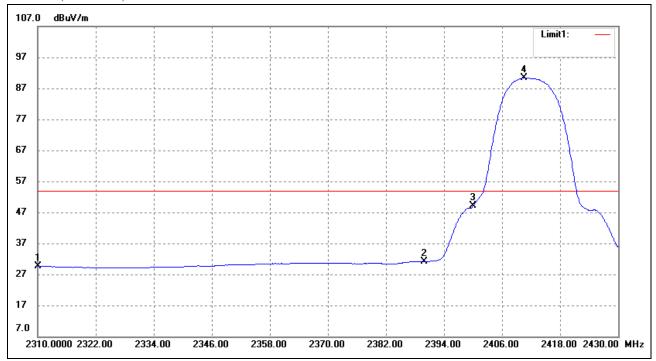
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

Please refer to the test plots as below.



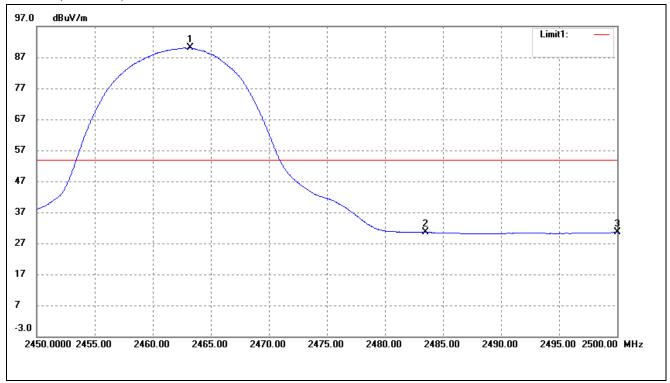
802.11b-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	33.99	-4.42	29.57	54.00	-24.43	Average Detector
	2310.000	45.54	-4.42	41.12	74.00	-32.88	Peak Detector
2	2390.000	34.92	-3.72	31.20	54.00	-22.80	Average Detector
	2390.000	48.21	-3.72	44.49	74.00	-29.51	Peak Detector
3	2400.000	52.72	-3.64	49.08	Delta =41.34dBc		Average Detector
4	2410.560	93.98	-3.56	90.42			Average Detector



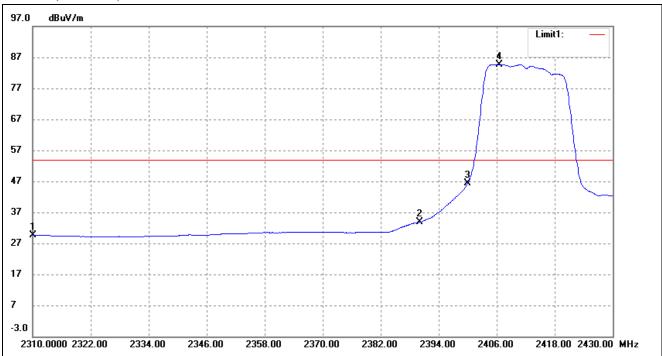
802.11b-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.250	93.19	-3.16	90.03	/	/	Average Detector
	2463.150	104.73	-3.16	101.57	/	/	Peak Detector
2	2483.500	33.54	-3.01	30.53	54.00	-23.47	Average Detector
	2483.500	47.43	-3.01	44.42	74.00	-29.58	Peak Detector
3	2500.000	33.43	-2.88	30.55	54.00	-23.45	Average Detector
	2500.000	44.64	-2.88	41.76	74.00	-32.24	Peak Detector



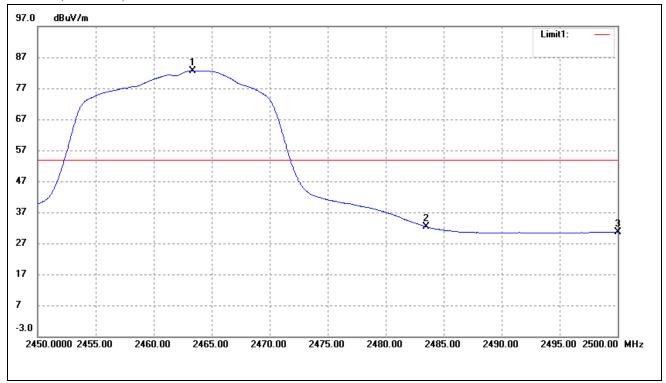
802.11g-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	34.06	-4.42	29.64	54.00	-24.36	Average Detector
	2310.000	46.01	-4.42	41.59	74.00	-32.41	Peak Detector
2	2390.000	37.50	-3.72	33.78	54.00	-20.22	Average Detector
	2390.000	53.12	-3.72	49.40	74.00	-24.60	Peak Detector
3	2400.000	50.07	-3.64	46.43	Delta =38.31dBc		Average Detector
4	2406.480	88.33	-3.59	84.74			Average Detector



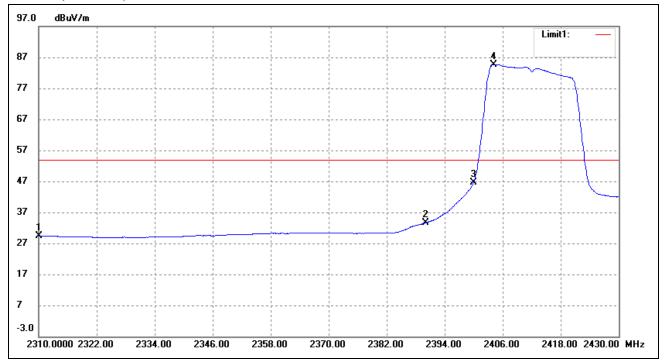
802.11g-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.350	85.83	-3.16	82.67	/	/	Average Detector
	2463.700	98.03	-3.16	94.87	/	/	Peak Detector
2	2483.500	35.33	-3.01	32.32	54.00	-21.68	Average Detector
	2483.500	52.97	-3.01	49.96	74.00	-24.04	Peak Detector
3	2500.000	33.55	-2.88	30.67	54.00	-23.33	Average Detector
	2500.000	46.13	-2.88	43.25	74.00	-30.75	Peak Detector



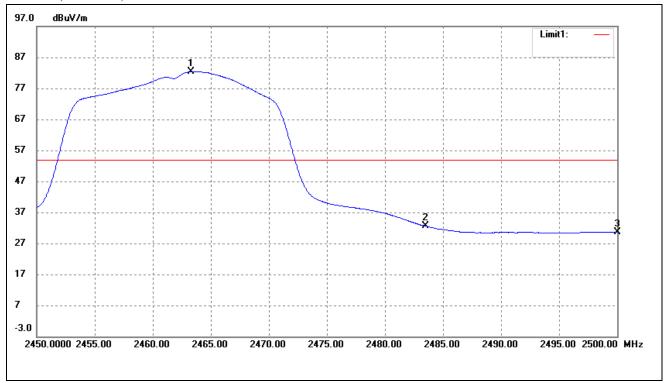
802.11n-HT20-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	33.81	-4.42	29.39	54.00	-24.61	Average Detector
	2310.000	45.57	-4.42	41.15	74.00	-32.85	Peak Detector
2	2390.000	37.35	-3.72	33.63	54.00	-20.37	Average Detector
	2390.000	52.63	-3.72	48.91	74.00 -25.09		Peak Detector
3	2400.000	50.36	-3.64	46.72	Delta =37.95dBc		Average Detector
4	2404.200	88.27	-3.60	84.67			Average Detector



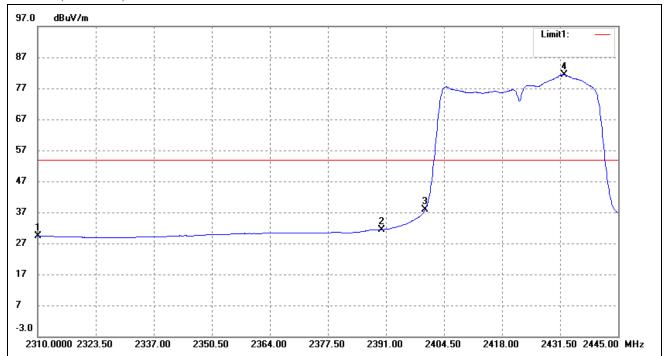
802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.300	85.49	-3.16	82.33	/	/	Average Detector
	2463.300	96.27	-3.16	93.11	/	/	Peak Detector
2	2483.500	35.60	-3.01	32.59	54.00	-21.41	Average Detector
	2483.500	54.00	-3.01	50.99	74.00	-23.01	Peak Detector
3	2500.000	33.62	-2.88	30.74	54.00	-23.26	Average Detector
	2500.000	45.89	-2.88	43.01	74.00	-30.99	Peak Detector



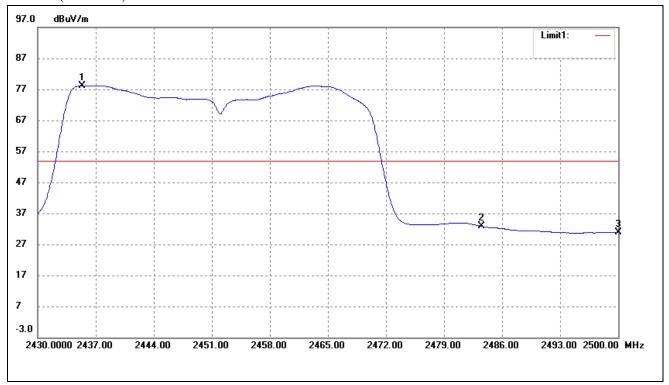
802.11n-HT40-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	33.80	-4.42	29.38	54.00	-24.62	Average Detector
	2310.000	45.65	-4.42	41.23	74.00	-32.77	Peak Detector
2	2390.000	35.20	-3.72	31.48	54.00	-22.52	Average Detector
	2390.000	47.24	-3.72	43.52	74.00	-30.48	Peak Detector
3	2400.000	41.49	-3.64	37.85	Delta =43.46dBc		Average Detector
4	2432.445	84.71	-3.40	81.31			Average Detector



802.11n-HT40-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2435.320	81.62	-3.37	78.25	/	/	Average Detector
	2434.760	92.68	-3.38	89.30	/	/	Peak Detector
2	2483.500	35.87	-3.01	32.86	54.00	-21.14	Average Detector
	2483.500	48.76	-3.01	45.75	74.00	-28.25	Peak Detector
3	2500.000	33.81	-2.88	30.93	54.00	-23.07	Average Detector
	2500.000	44.87	-2.88	41.99	74.00	-32.01	Peak Detector



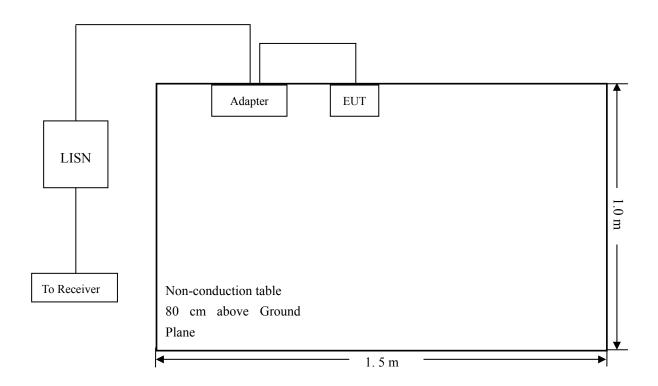
10. Conducted Emissions

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

-18.78 dB at 0.1940 MHz in the Line, Peak detector, 0.15-30MHz

10.6 Conducted Emissions Test Data



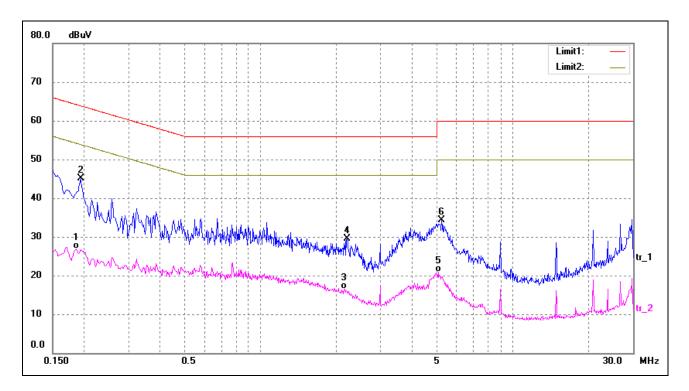
Plot of Conducted Emissions Test Data

EUT: VINCI Hearable
Tested Model: Hearable 1.0

Operating Condition: (WIFI)Transmitting

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

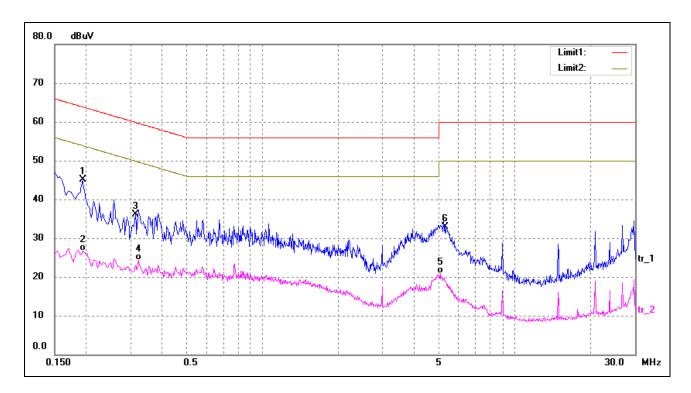
Test Specification: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1860	17.39	9.50	26.89	54.21	-27.32	AVG
2*	0.1940	35.58	9.50	45.08	63.86	-18.78	peak
3	2.1620	6.61	9.84	16.45	46.00	-29.55	AVG
4	2.2100	19.60	9.85	29.45	56.00	-26.55	peak
5	5.0780	10.67	10.24	20.91	50.00	-29.09	AVG
6	5.2340	24.06	10.25	34.31	60.00	-25.69	peak



Test Specification: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1*	0.1940	35.58	9.50	45.08	63.86	-18.78	peak
2	0.1940	17.12	9.50	26.62	53.86	-27.24	AVG
3	0.3140	26.51	9.50	36.01	59.86	-23.85	peak
4	0.3220	14.77	9.50	24.27	49.65	-25.38	AVG
5	5.0779	10.67	10.24	20.91	50.00	-29.09	AVG
6	5.3179	22.67	10.25	32.92	60.00	-27.08	peak

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