

# Launch Tech Co., Ltd.

## golo<sup>3</sup>


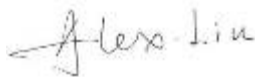

**Main Model: golo<sup>3</sup>**  
**Serial Model: N/A**

**December 24, 2013**  
**Report No.: 13070593-FCC-R3**  
**(This report supersedes none)**



**Modifications made to the product : None**

**This Test Report is Issued Under the Authority of:**

		
<b>Herith Shi</b> Compliance Engineer	<b>Alex Liu</b> Technical Manager	

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**Test result presented in this test report is applicable to the representative sample only.**

# RF Test Report

**SIEMIC, INC.**  
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Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety



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Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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# 1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the Launch Tech Co., Ltd., golo<sup>3</sup> and model: golo<sup>3</sup> against the current Stipulated Standards. The golo<sup>3</sup> has demonstrated compliance with the FCC Part 15.247: 2013, ANSI C63.4: 2009.

## EUT Information

- EUT Description** : golo<sup>3</sup>
  
- Main Model** : golo<sup>3</sup>
  
- Serial Model** : N/A
  
- Antenna Gain** :
  - UMTS-FDD Band V/GPRS850: -4.95dBi
  - UMTS-FDD Band II/ GPRS1900: 2.15dBi
  - Bluetooth: -1.2dBi
  - WIFI: -1.2dBi
  
- Input Power** : Input: DC 12V
  
- Classification Per Stipulated Test Standard** : FCC Part 15.247: 2013, ANSI C63.4: 2009

## 2 TECHNICAL DETAILS

<b>Purpose</b>	<b>Compliance testing of golo<sup>3</sup> with stipulated standard</b>
<b>Applicant / Client</b>	<b>Launch Tech Co., Ltd. Launch Industrial Park, North of Wuhe Rd., Banxuegang, Longgang, Shenzhen, China</b>
<b>Manufacturer</b>	<b>Launch Tech Co., Ltd. Launch Industrial Park, North of Wuhe Rd., Banxuegang, Longgang, Shenzhen, China</b>
<b>Laboratory performing the tests</b>	<b>SIEMIC Shenzhen (Shenzhen - China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953-810 Email: China@siemic.com.cn</b>
<b>Test report reference number</b>	<b>13070593-FCC-R3</b>
<b>Date EUT received</b>	<b>December 06, 2013</b>
<b>Standard applied</b>	<b>FCC Part 15.247: 2013, ANSI C63.4: 2009</b>
<b>Dates of test (from – to)</b>	<b>December 09 to December 19, 2013</b>
<b>No of Units :</b>	<b>#1</b>
<b>Equipment Category :</b>	<b>DTS</b>
<b>Trade Name :</b>	<b>LAUNCH</b>
<b>RF Operating Frequency (ies)</b>	<b>GPRS850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz GPRS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHz UMTS-FDD Band II TX : 1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n(20M): 2412-2462 MHz Bluetooth: 2402-2480 MHz</b>
<b>Number of Channels</b>	<b>299CH (GPRS1900) and 124CH (GPRS850) UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH Bluetooth: 79CH 802.11b/g/n: 11CH</b>
<b>Modulation</b>	<b>GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK&amp; <math>\pi</math>/4DQPSK&amp;8DPSK</b>
<b>GPRS Multi-slot class</b>	<b>8/10/12</b>
<b>FCC ID</b>	<b>XUJRCUL</b>



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### **3 MODIFICATION**

**NONE**

## 4 TEST SUMMARY

The product was tested in accordance with the following specifications.  
 All testing has been performed according to below product classification:

### Test Results Summary

FCC Rules	Description of Test	Result
§2.1091	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB&26 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	N/A
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance



# **5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

## **5.1 §2.1091- RF Exposure**

**Test Result: Pass**

Please refer to MPE report 13070593-FCC-H2.

## **5.2 §15.203 - ANTENNA REQUIREMENT**

### **Applicable Standard**

According to § 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Antenna Connector Construction**

The EUT has 2 antennas: a comment antenna for Bluetooth, the gain is -1.2 dBi;  
for WIFI, the gain is -1.2 dBi

. a comment antenna for GSM and UMTS, the gain is -4.95 dBi for UMTS-FDD Band V/  
GSM850 and 2.15 dBi for UMTS-FDD Band II/PCS1900

Which in accordance to section 15.203, please refer to the internal photos.

**Test Result: Pass**

### **5.3 §15.247(a) (2) –DTS (6 dB&26 dB) CHANNEL BANDWIDTH**

1. Conducted Measurement  
 EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
 The spectrum analyzer was connected to the antenna terminal.
2. Environmental Conditions
 

Temperature	24°C
Relative Humidity	50%
Atmospheric Pressure	1018mbar
3. Conducted Emissions Measurement Uncertainty  
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ±1.5dB.
4. Test date : December 11, 2013  
 Tested By : Herith Shi

**Requirement(s):** The minimum 6 dB bandwidth of a DTS transmission shall be at least 500 kHz. Within this document, this bandwidth is referred to as the DTS bandwidth. The procedures provided herein for measuring the maximum peak conducted output power assume the use of the DTS bandwidth.

**Procedures:**

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

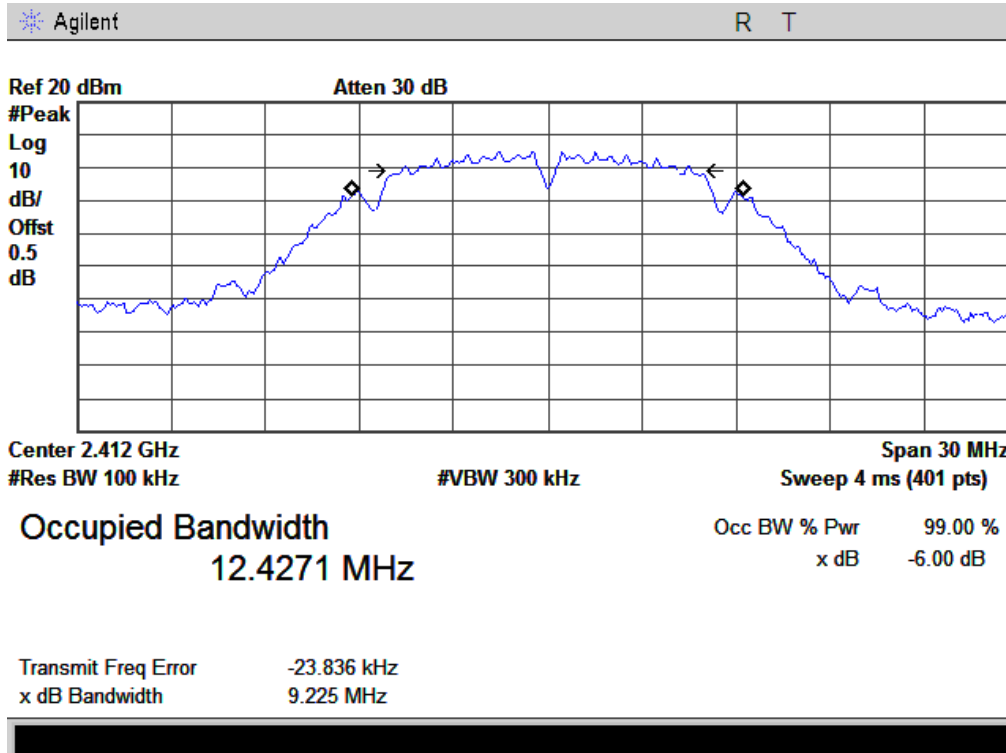
**Test Result: Pass.**

Please refer to the following tables and plots.

**6dB bandwidth:**

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	Measured 6dB Bandwidth (MHz)	FCC Part 15.247 Limit (kHz)
<b>802.11b mode</b>				
Low	2412	1	9.225	> 500
Middle	2437	1	9.165	> 500
High	2462	1	9.232	> 500
<b>802.11g mode</b>				
Low	2412	6	16.430	> 500
Middle	2437	6	16.429	> 500
High	2462	6	16.433	> 500
<b>802.11n(20M) mode</b>				
Low	2412	MCS0	17.630	> 500
Middle	2437	MCS0	17.631	> 500
High	2462	MCS0	17.634	> 500

**802.11b Low Channel**





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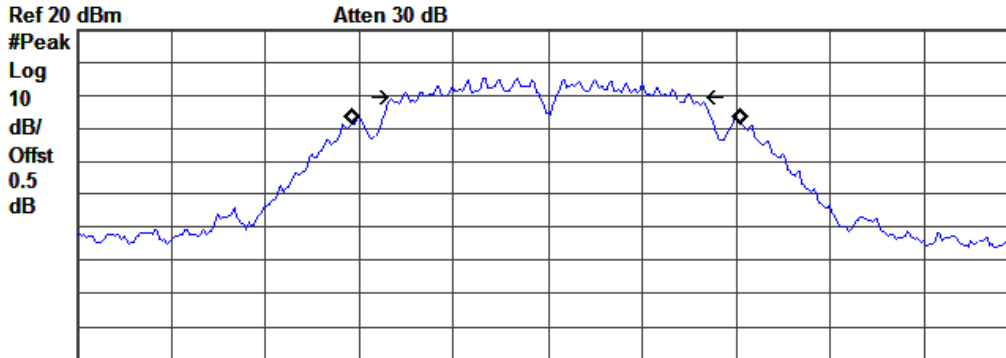
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Title: RF Test Report for golo3  
Main Model: golo3  
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## 802.11b Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

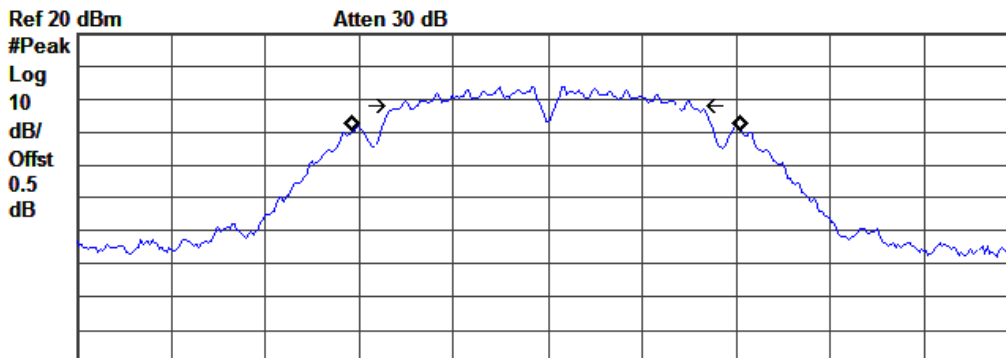
Occupied Bandwidth  
12.3561 MHz

Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -23.938 kHz  
x dB Bandwidth 9.165 MHz

## 802.11b High Channel

Agilent R T



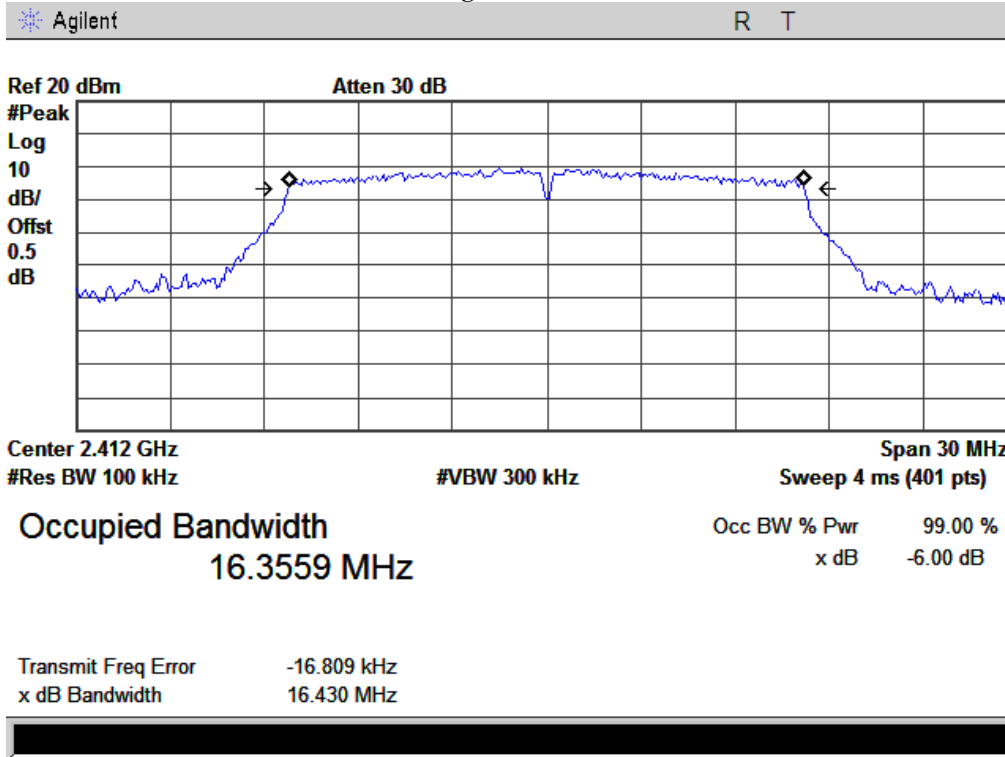
Center 2.462 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

Occupied Bandwidth  
12.3577 MHz

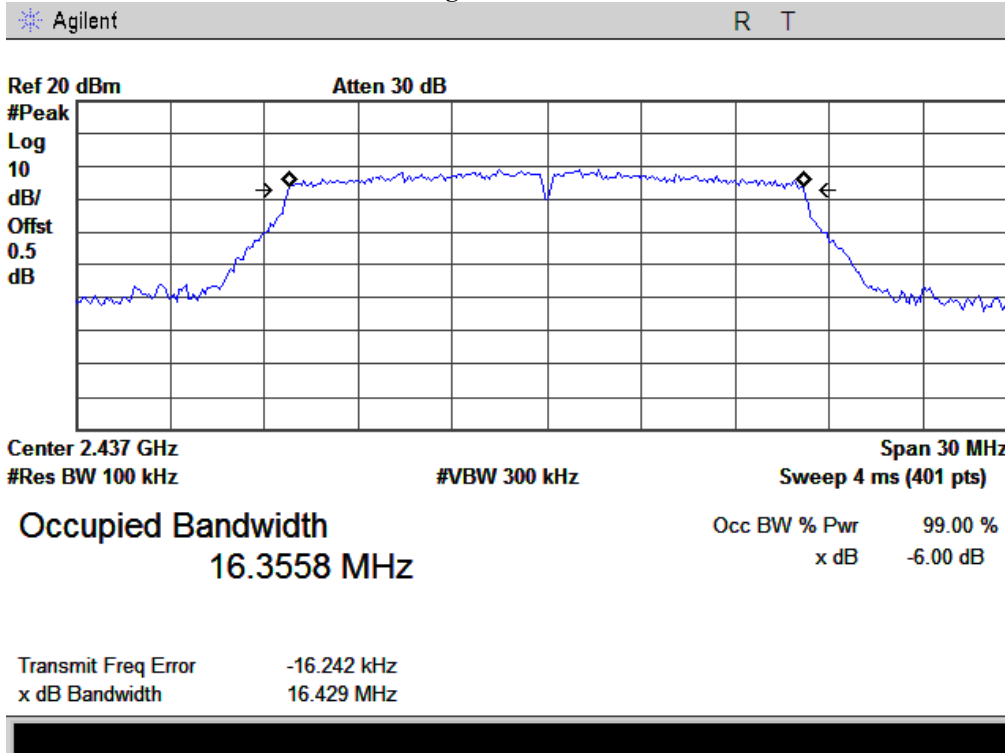
Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -16.429 kHz  
x dB Bandwidth 9.232 MHz

### 802.11g Low Channel



### 802.11g Middle Channel





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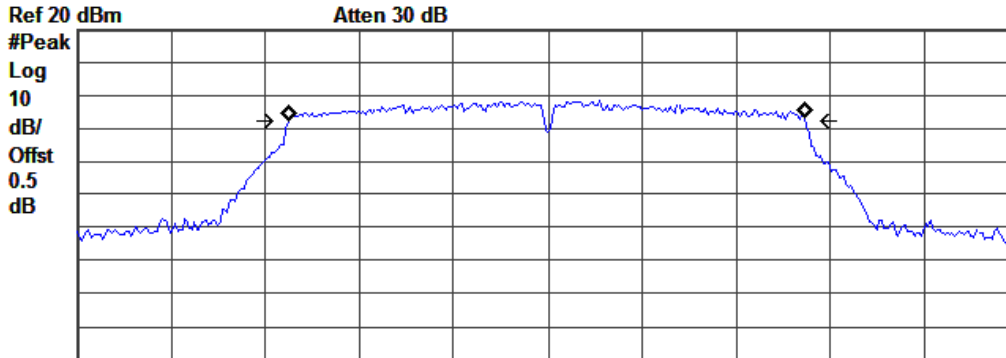
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## 802.11g High Channel

Agilent R T



Center 2.462 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

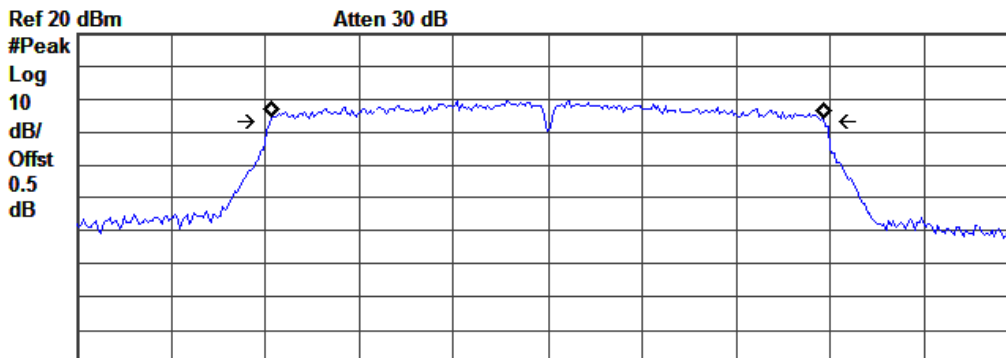
Occupied Bandwidth  
16.3963 MHz

Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -26.121 kHz  
x dB Bandwidth 16.433 MHz

## 802.11n Low Channel

Agilent R T



Center 2.412 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

Occupied Bandwidth  
17.5239 MHz

Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -5.468 kHz  
x dB Bandwidth 17.630 MHz



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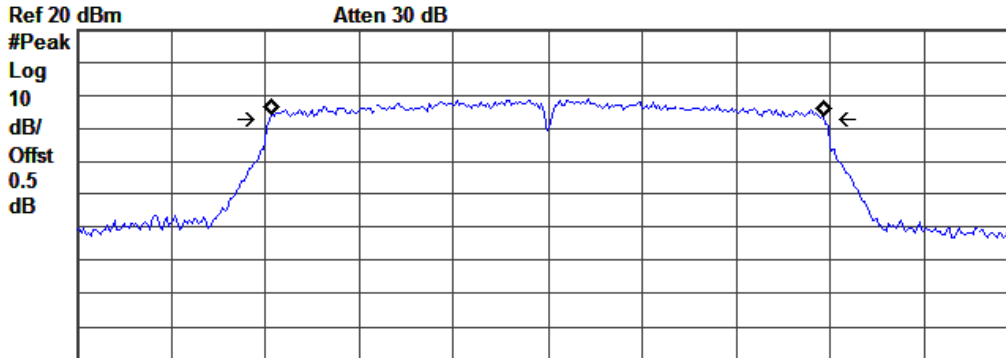
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## 802.11n Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

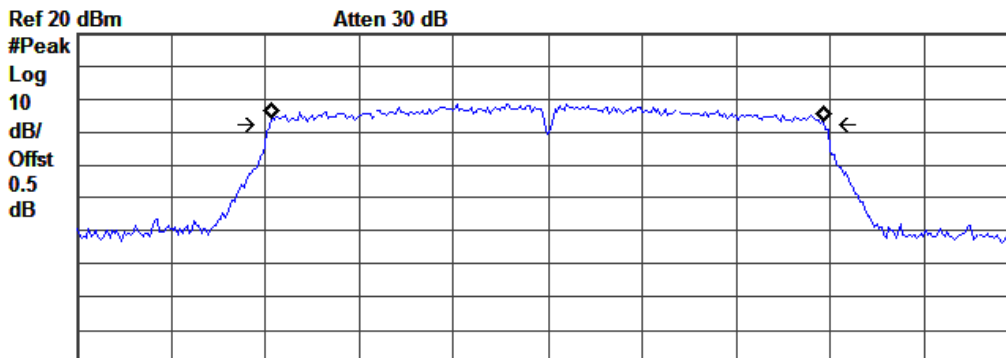
**Occupied Bandwidth**  
17.5250 MHz

Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -4.451 kHz  
x dB Bandwidth 17.631 MHz

## 802.11n High Channel

Agilent R T



Center 2.462 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

**Occupied Bandwidth**  
17.5262 MHz

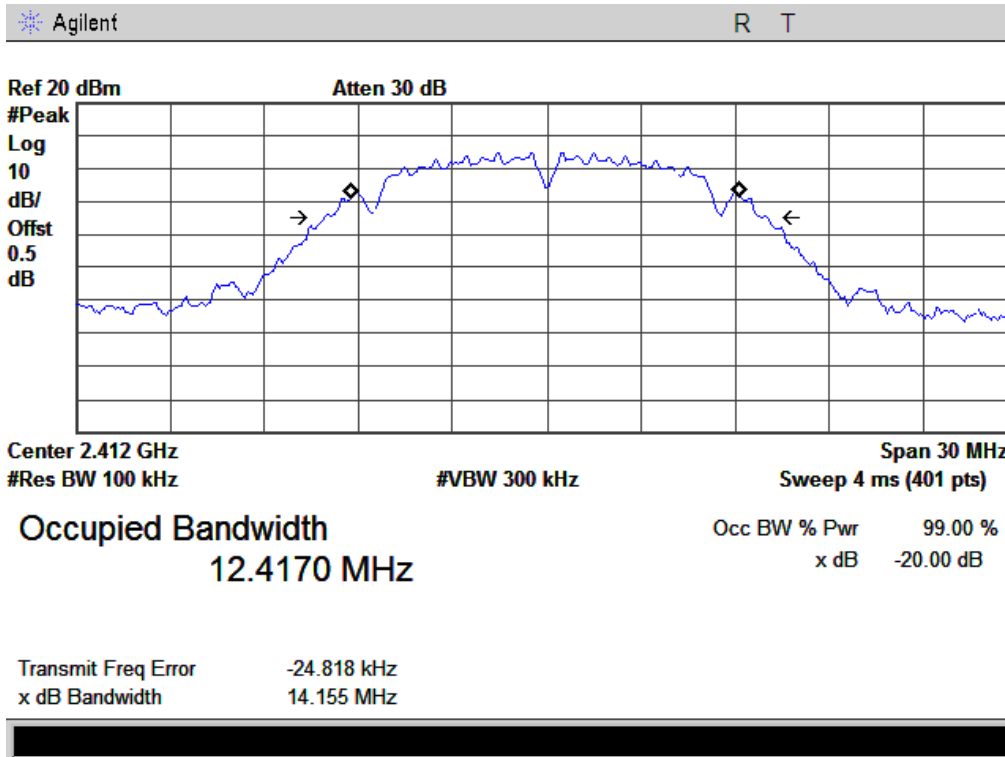
Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -4.944 kHz  
x dB Bandwidth 17.634 MHz

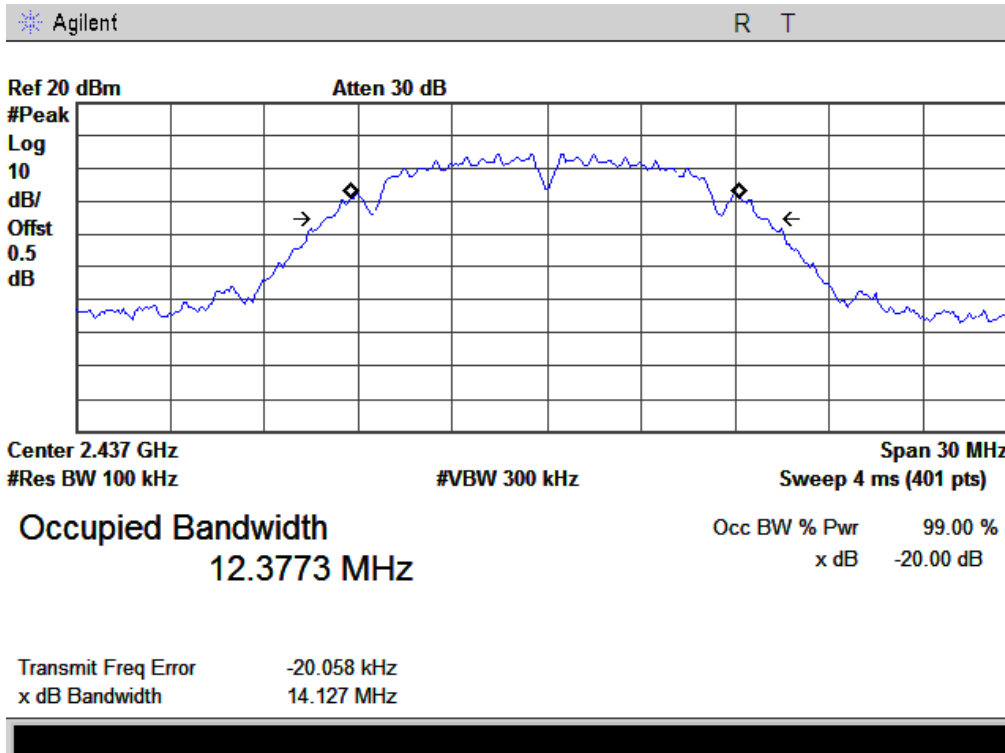


**The 20dB bandwidth:**

**802.11b Low Channel**



**802.11b Middle Channel**





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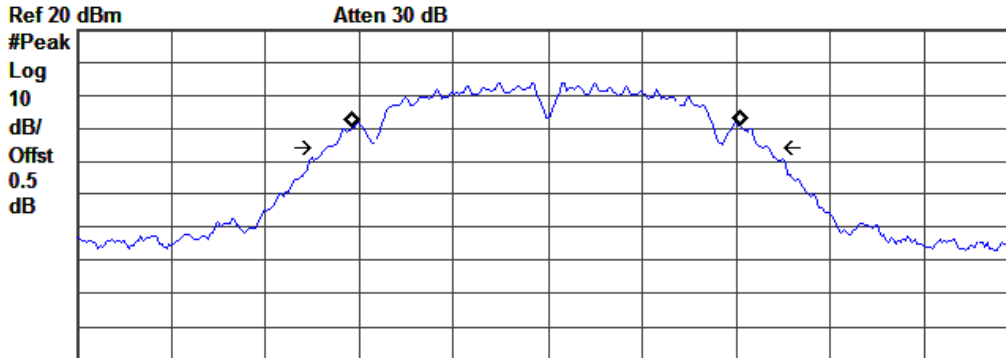
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## 802.11b High Channel

Agilent R T



Center 2.462 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

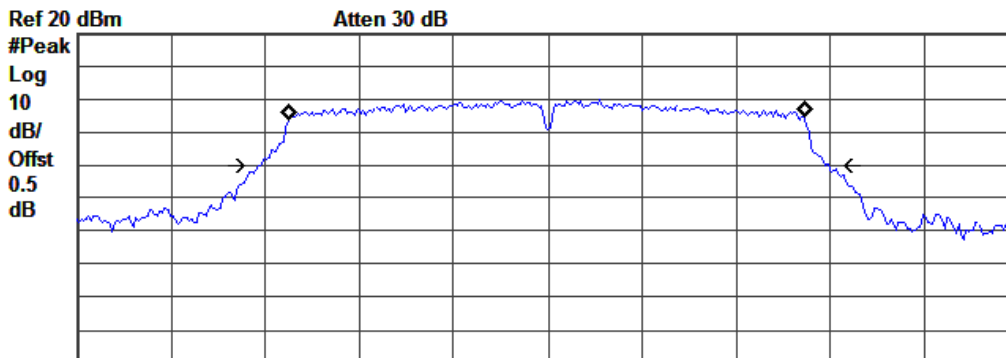
**Occupied Bandwidth**  
12.3572 MHz

Occ BW % Pwr 99.00 %  
x dB -20.00 dB

Transmit Freq Error -18.226 kHz  
x dB Bandwidth 14.123 MHz

## 802.11g Low Channel

Agilent R T



Center 2.412 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

**Occupied Bandwidth**  
16.4069 MHz

Occ BW % Pwr 99.00 %  
x dB -20.00 dB

Transmit Freq Error -36.957 kHz  
x dB Bandwidth 18.127 MHz



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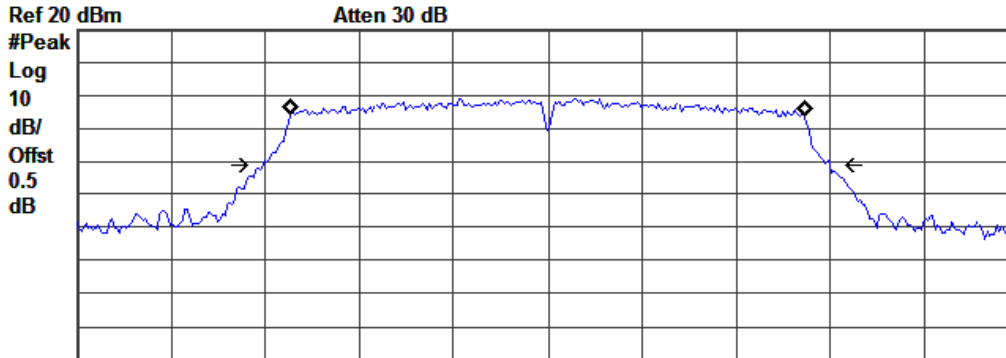
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## 802.11g Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

**Occupied Bandwidth**  
16.3506 MHz

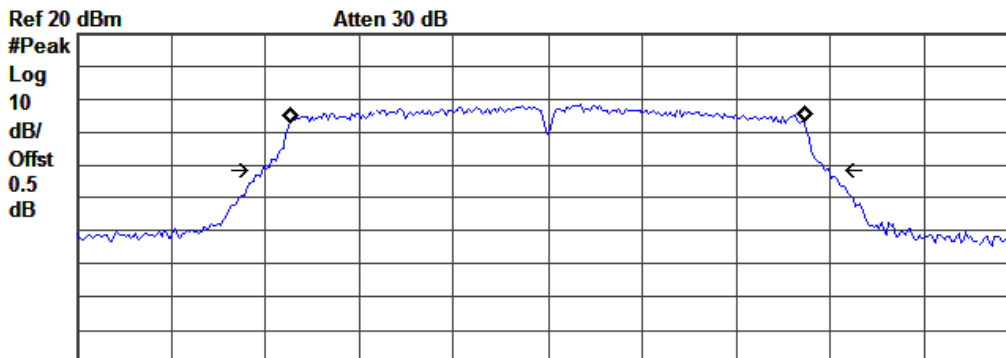
Occ BW % Pwr 99.00 %  
x dB -20.00 dB

Transmit Freq Error -10.017 kHz  
x dB Bandwidth 18.052 MHz



## 802.11g High Channel

Agilent R T



Center 2.462 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

**Occupied Bandwidth**  
16.3548 MHz

Occ BW % Pwr 99.00 %  
x dB -20.00 dB

Transmit Freq Error -23.885 kHz  
x dB Bandwidth 18.071 MHz





# SIEMIC, INC.

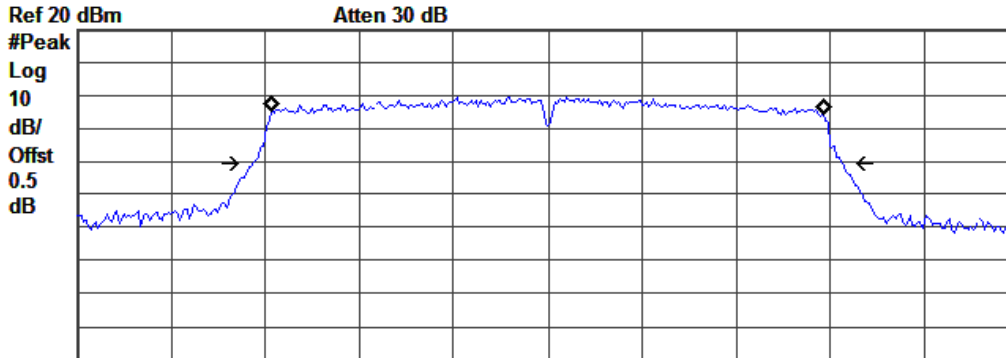
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## 802.11n Low Channel

Agilent R T



Center 2.412 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

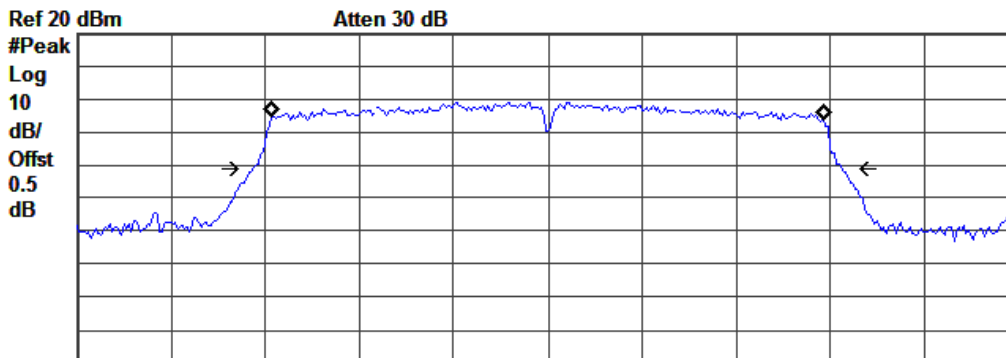
Occupied Bandwidth  
17.5301 MHz

Occ BW % Pwr 99.00 %  
x dB -20.00 dB

Transmit Freq Error -3.619 kHz  
x dB Bandwidth 18.778 MHz

## 802.11 Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

Occupied Bandwidth  
17.5283 MHz

Occ BW % Pwr 99.00 %  
x dB -20.00 dB

Transmit Freq Error -57.713 Hz  
x dB Bandwidth 18.813 MHz



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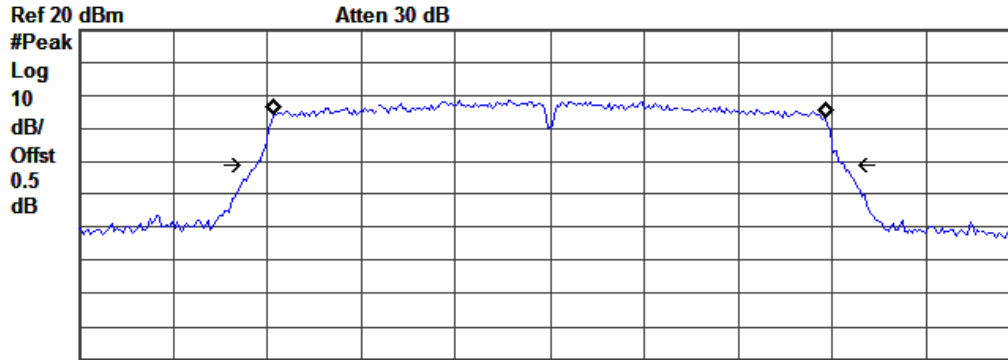
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## 802.11n High Channel

Agilent R T



Center 2.462 GHz Span 30 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

**Occupied Bandwidth**  
**17.5205 MHz**

Occ BW % Pwr 99.00 %  
x dB -20.00 dB

Transmit Freq Error -10.161 kHz  
x dB Bandwidth 18.778 MHz



## **5.4 §15.247(b) (3) - Conducted Maximum Output Power**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5$ dB.
3. Environmental Conditions

Temperature	24°C
Relative Humidity	50%
Atmospheric Pressure	1010mbar
4. Test date : November 26, 2013  
Tested By : Herith Shi

### **Standard Requirement:**

#### **Maximum Peak Conducted Output Power**

The following procedures can be used to determine the maximum peak conducted output power of a DTS EUT.

#### **Maximum Conducted Output Power**

§15.247(b)(3) permits the maximum (average) conducted output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When these procedures are utilized, the power is referenced to the emission bandwidth (EBW) rather than the DTS bandwidth (see Section 2.0 for definitions).

When using a spectrum/signal analyzer to perform these measurements, it must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of  $\leq RBW/2$  so that narrowband signals are not lost between frequency bins.

The ideal method for measuring the maximum (average) conducted output power is with the EUT is configured to transmit continuously (duty cycle  $\geq 98\%$ ) at its maximum power control level. However, when this condition cannot be realized, video triggering or signal gating can be used to ensure that the measurements are performed only during periods when the EUT is transmitting at its maximum power control level. An option is also provided that can be used when none of the above requirements can be met with the available measurement instrumentation.

### **Procedures:**

#### **Measurement Procedure PK:**

This procedure should only be used when the maximum available RBW of the spectrum/signal analyzer is less than the DTS bandwidth.

1. Set the RBW = maximum available (at least 1 MHz).
2. Set the VBW = 3 x RBW or maximum available setting (must be  $\geq RBW$ ).
3. Set the span to fully encompass the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

#### **Measurement Procedure AVG:**

This procedure should be used with an RMS power averaging detector; however, a sample detector can be used when an RMS detector is not available. This is the baseline method for measuring the maximum (average) conducted output power.

1. Set the analyzer span to a minimum of 1.5 times the EBW.
2. Set the RBW = 1 MHz.
3. Set the VBW  $\geq 3$  MHz.
4. Ensure that the number of measurement points in the sweep  $\geq 2$  x span/RBW.
5. Sweep time = auto couple.

6. Detector = power averaging (RMS) or sample detector when RMS not available.
7. Employ trace averaging in power averaging (RMS) mode over a minimum of 100 traces.
8. Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges.

Note: If the analyzer does not have a band power function, sum the spectral levels (in linear power units) at 1 MHz intervals extending across the entire EBW.

**Test Result: Pass.**

Please refer to the following tables and plots.

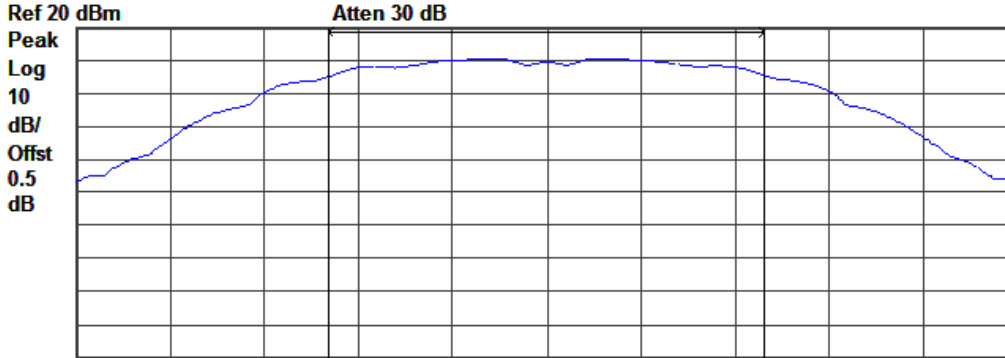
**The Peak Power**

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	PK Output Power (dBm)	AV Output Power (dBm)	Limit (dBm)
<b>802.11b mode</b>					
Low	2412	1	18.20	15.66	30
Middle	2437	1	17.76	15.25	30
High	2462	1	17.54	14.88	30
<b>802.11g mode</b>					
Low	2412	6	17.34	12.93	30
Middle	2437	6	16.75	12.39	30
High	2462	6	16.13	12.07	30
<b>802.11n mode</b>					
Low	2412	MCS0 (20M)	17.39	11.65	30
Middle	2437	MCS0 (20M)	17.07	12.03	30
High	2462	MCS0 (20M)	17.17	11.29	30

**The Peak Power**

**802.11b Low Channel**

Agilent R T



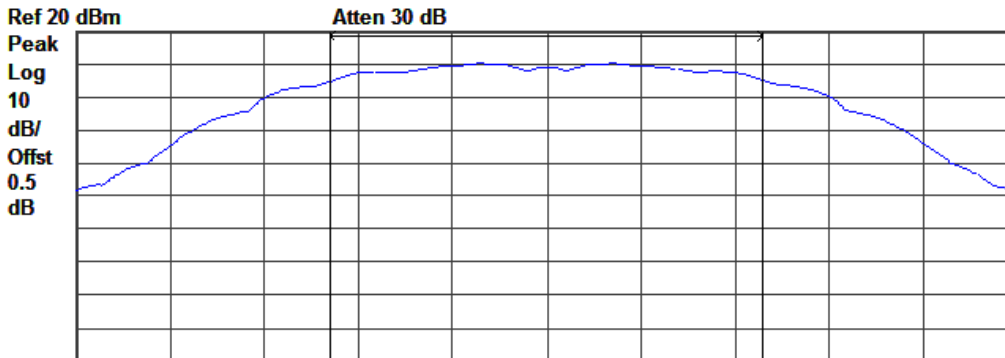
Center 2.412 GHz Span 20 MHz  
 #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power	Power Spectral Density
18.20 dBm / 9.2250 MHz	-51.45 dBm/Hz



**802.11b Middle Channel**

Agilent R T



Center 2.437 GHz Span 20 MHz  
 #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power	Power Spectral Density
17.76 dBm / 9.1650 MHz	-51.87 dBm/Hz







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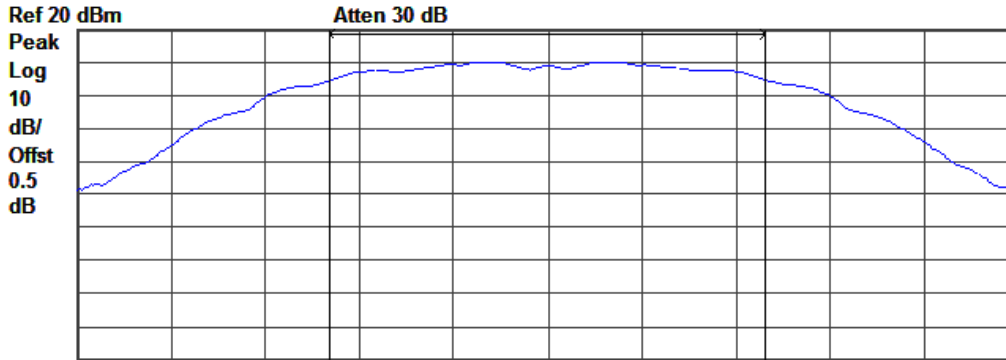
Accessing global markets

Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
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## 802.11b High Channel

Agilent R T



Center 2.462 GHz Span 20 MHz  
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power

17.54 dBm / 9.2320 MHz

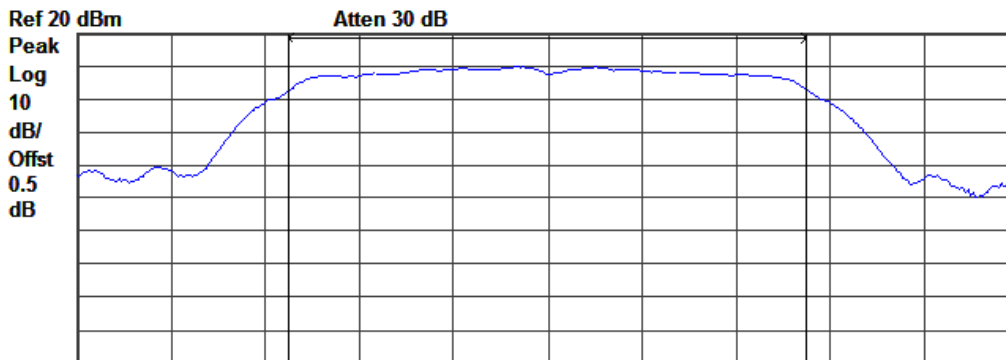
Power Spectral Density

-52.11 dBm/Hz



## 802.11g Low Channel

Agilent R T



Center 2.412 GHz Span 30 MHz  
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power

17.34 dBm / 16.4300 MHz

Power Spectral Density

-54.82 dBm/Hz





# SIEMIC, INC.

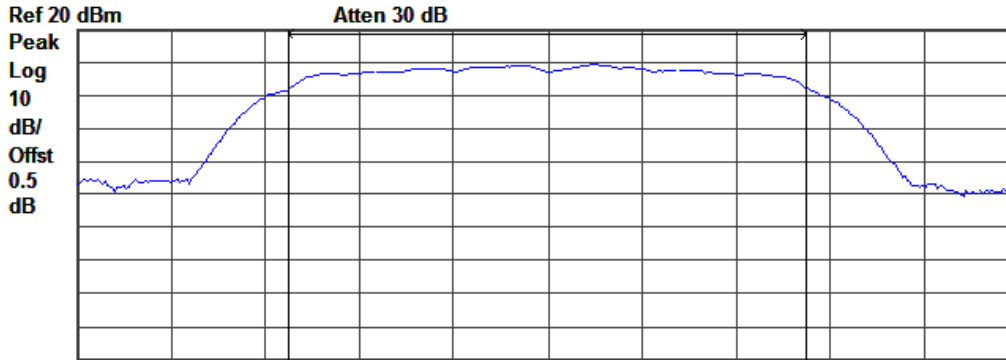
Accessing global markets

Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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## 802.11g Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power

16.75 dBm / 16.4290 MHz

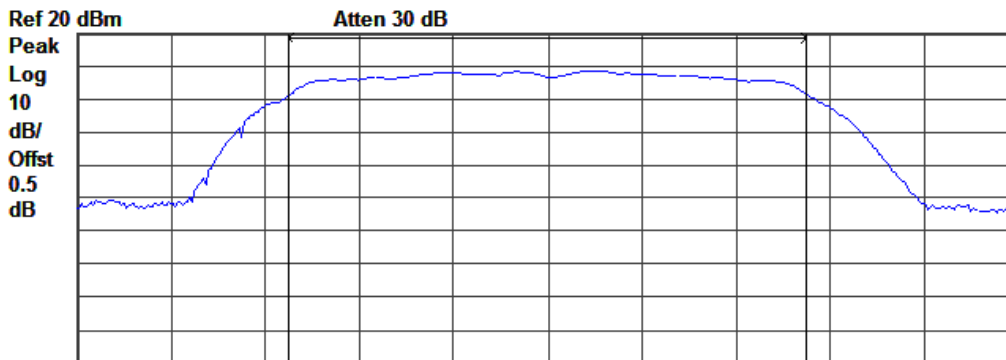
Power Spectral Density

-55.41 dBm/Hz



## 802.11g High Channel

Agilent R T



Center 2.462 GHz Span 30 MHz  
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power

16.13 dBm / 16.4330 MHz

Power Spectral Density

-56.03 dBm/Hz





# SIEMIC, INC.

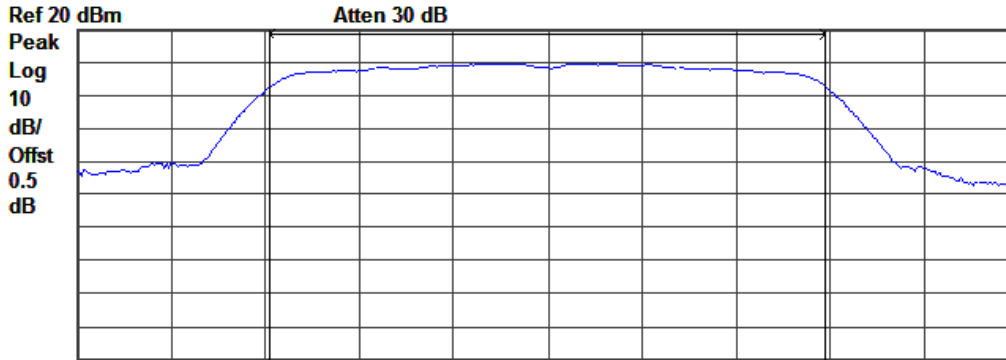
Accessing global markets

Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
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## 802.11n Low Channel

Agilent R T



Center 2.412 GHz Span 30 MHz  
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power

17.39 dBm / 17.6300 MHz

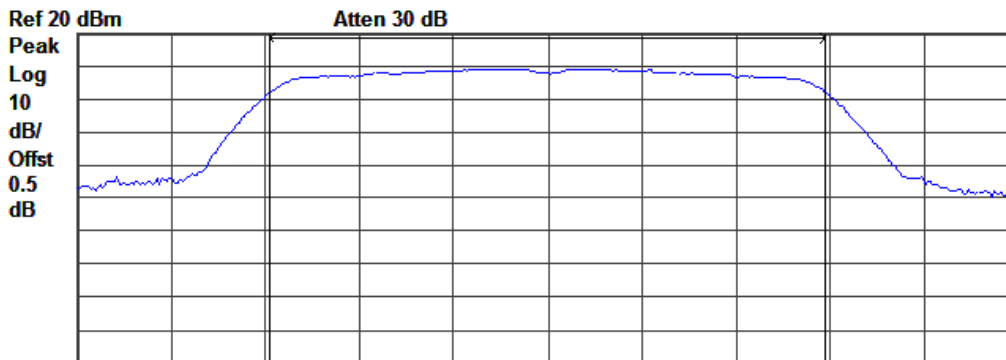
Power Spectral Density

-55.08 dBm/Hz



## 802.11n Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Channel Power

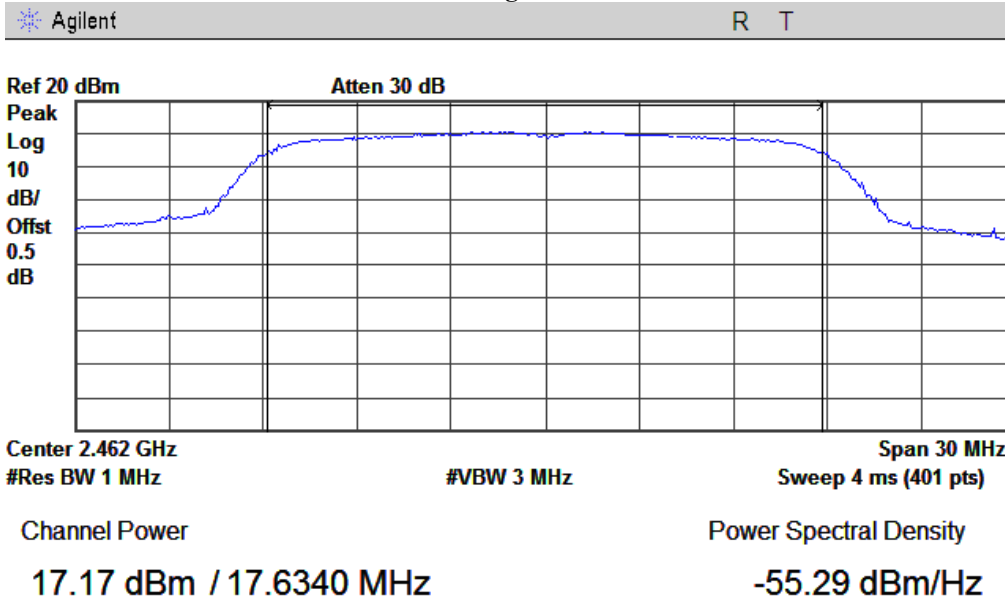
17.07 dBm / 17.6310 MHz

Power Spectral Density

-55.39 dBm/Hz

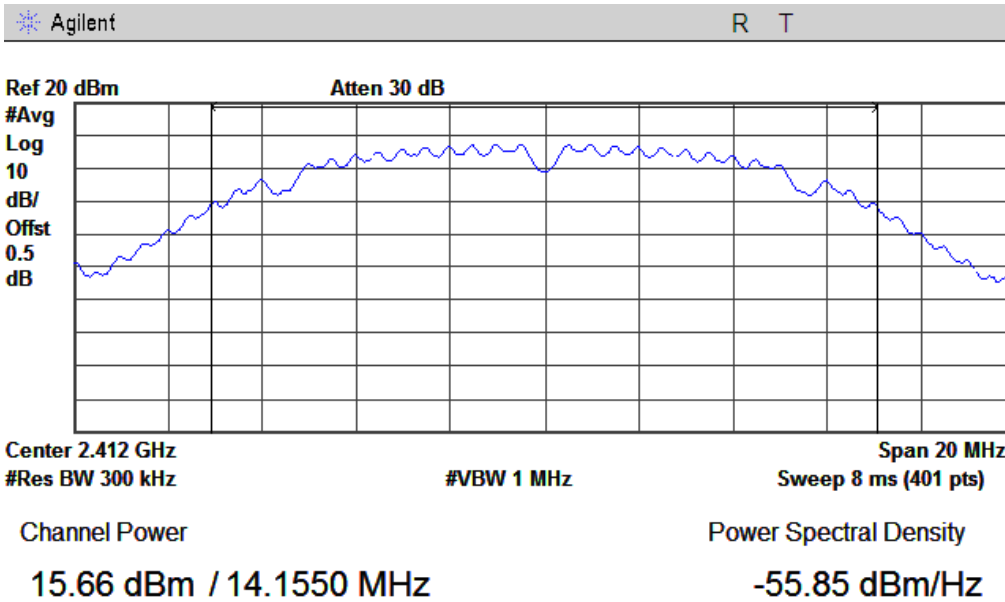


### 802.11n High Channel



### The Average Power

### 802.11b Low Channel





# SIEMIC, INC.

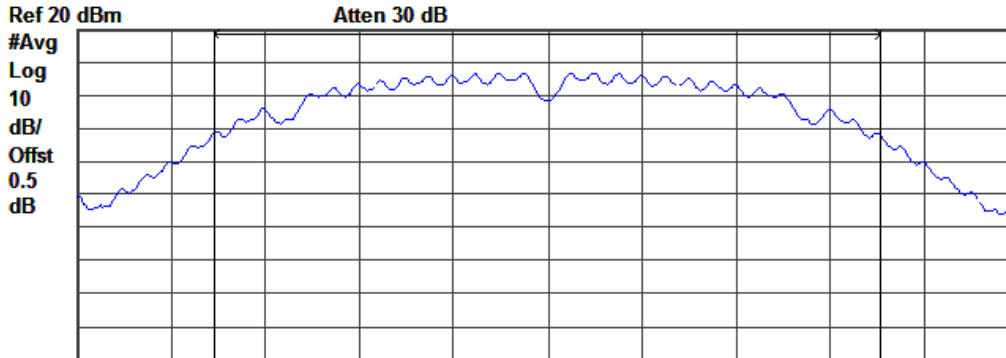
Accessing global markets

Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
Issue Date: December 24, 2013  
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## 802.11b Middle Channel

Agilent R T



Center 2.437 GHz Span 19.96 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

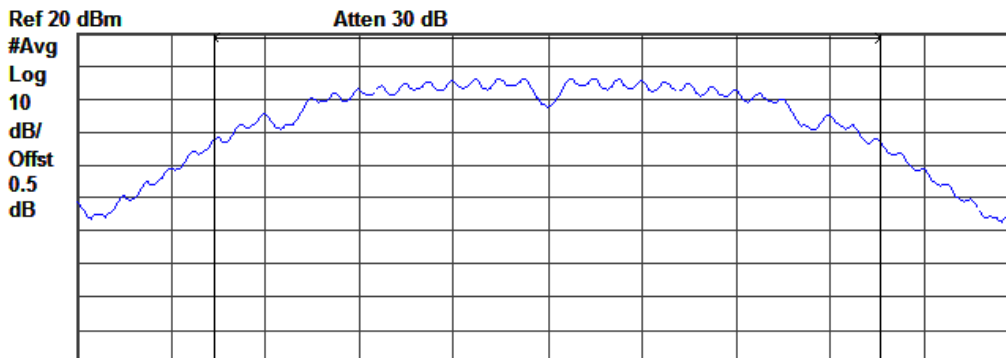
15.25 dBm / 14.1270 MHz

Power Spectral Density

-56.25 dBm/Hz

## 802.11b High Channel

Agilent R T



Center 2.462 GHz Span 20 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

14.88 dBm / 14.1230 MHz

Power Spectral Density

-56.62 dBm/Hz



# SIEMIC, INC.

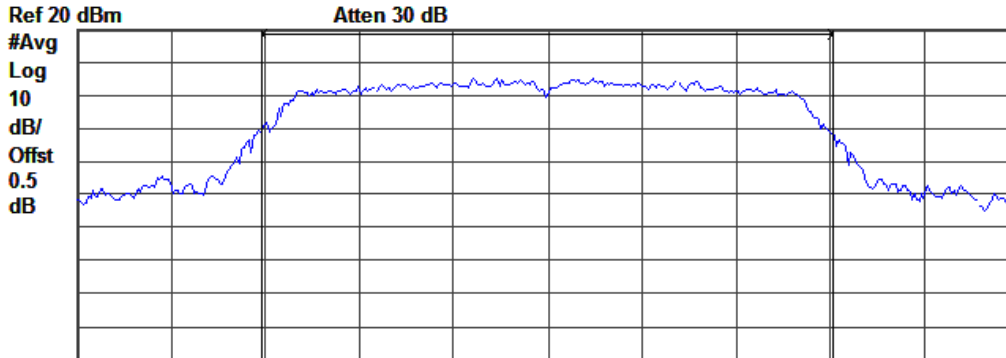
Accessing global markets

Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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## 802.11g Low Channel

Agilent R T



Center 2.412 GHz Span 30 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

12.93 dBm / 18.1270 MHz

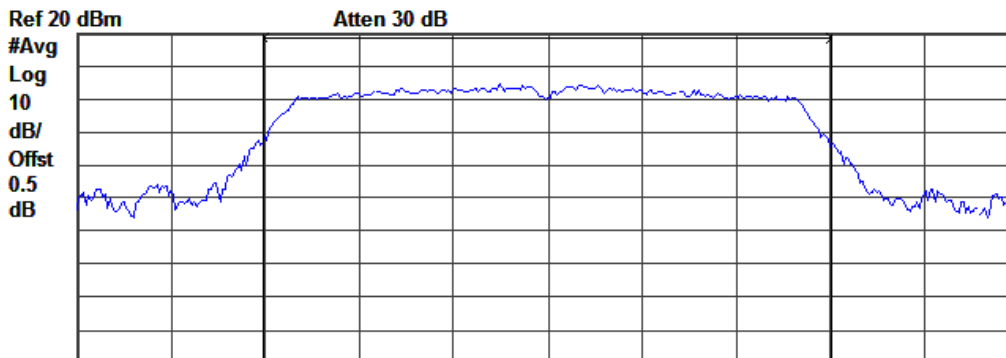
Power Spectral Density

-59.65 dBm/Hz



## 802.11g Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

12.39 dBm / 18.0520 MHz

Power Spectral Density

-60.17 dBm/Hz





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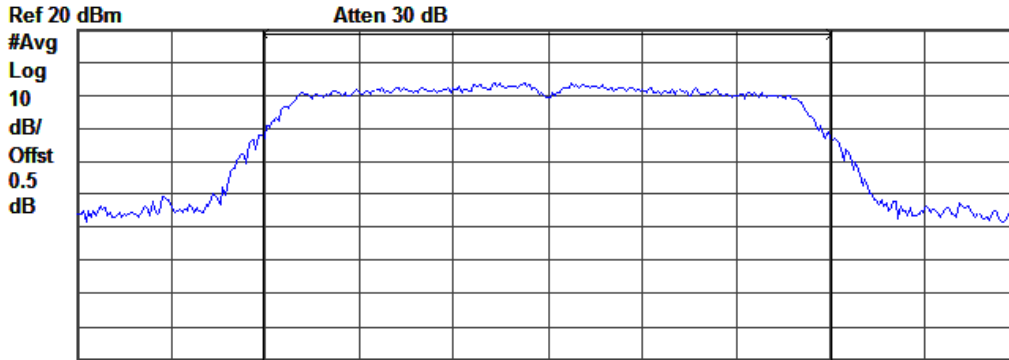
Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
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## 802.11g High Channel

Agilent

R T



Center 2.462 GHz Span 30 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

12.07 dBm / 18.0710 MHz

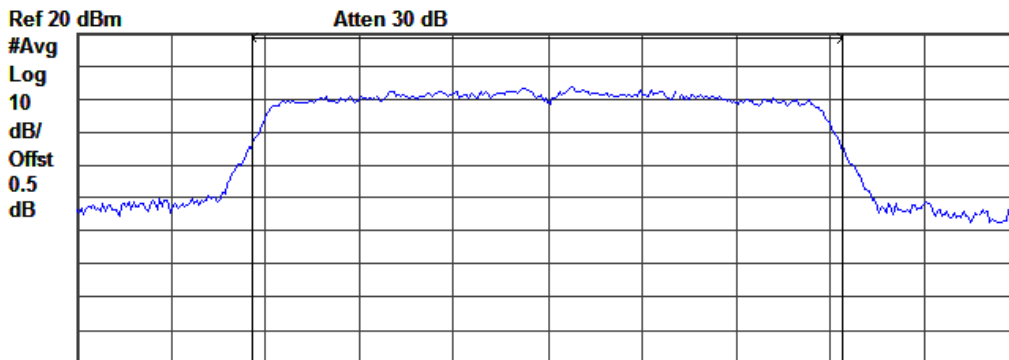
Power Spectral Density

-60.50 dBm/Hz

## 802.11n Low Channel

Agilent

R T



Center 2.412 GHz Span 30 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

11.65 dBm / 18.7780 MHz

Power Spectral Density

-61.09 dBm/Hz



# SIEMIC, INC.

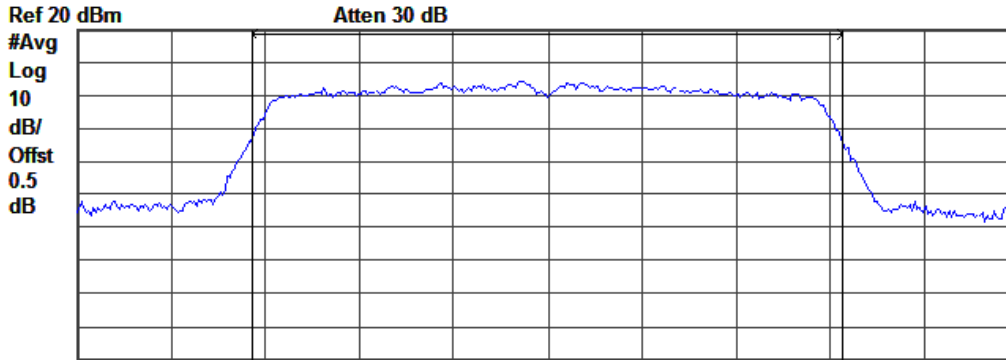
Accessing global markets

Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
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## 802.11n Middle Channel

Agilent R T



Center 2.437 GHz Span 30 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

12.03 dBm / 18.8130 MHz

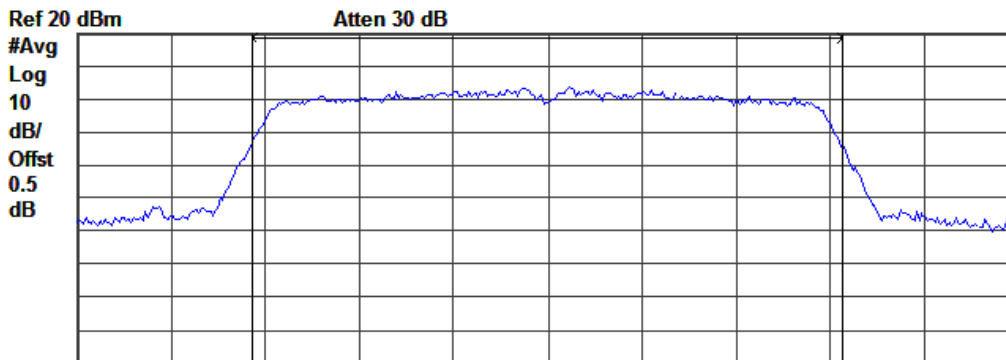
Power Spectral Density

-60.60 dBm/Hz



## 802.11n High Channel

Agilent R T



Center 2.462 GHz Span 30 MHz  
Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power

11.29 dBm / 18.7780 MHz

Power Spectral Density

-61.45 dBm/Hz





## **5.5 §15.247(e) - Power Spectral Density**

1. **Conducted Measurement**  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. **Environmental Conditions**

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
3. **Conducted Emissions Measurement Uncertainty**  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ±1.5dB.
4. **Test date :** December 13, 2013  
**Tested By :** Herith Shi

### **Requirement(s):**

A conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the DTS bandwidth is specified during any time interval of continuous transmission. By rule, the same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if maximum peak conducted output power was measured then the peak PSD procedure shall be used and if maximum conducted output power was measured then the average PSD procedure shall be used).

If the average PSD is measured with a power averaging (RMS) detector or a sample detector, then the spectrum analyzer must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of  $\leq RBW/2$  so that narrowband signals are not lost between frequency bins.

### **Procedures:**

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

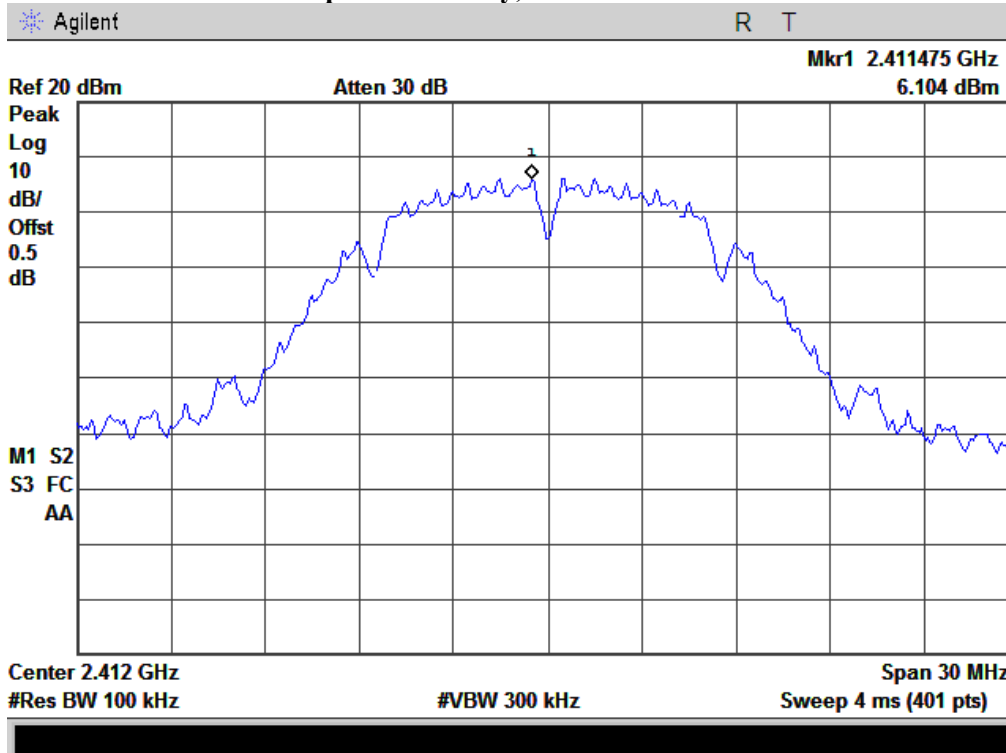
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW  $\geq 3$  kHz.
4. Set the VBW  $\geq 3 \times$  RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

**Test Result: Pass.**

Please refer to the following tables and plots.

Channel	Frequency (MHz)	Data Rate	PSD (dBm)	Limit (dBm)
<b>802.11b mode</b>				
Low	2412	1	6.104	8
Middle	2437	1	5.635	8
High	2462	1	5.228	8
<b>802.11g mode</b>				
Low	2412	6	0.539	8
Middle	2437	6	0.188	8
High	2462	6	0.610	8
<b>802.11n mode</b>				
Low	2412	MCS0	0.290	8
Middle	2437	MCS0	0.557	8
High	2462	MCS0	1.053	8

**Power Spectral Density, 802.11b Low Channel**





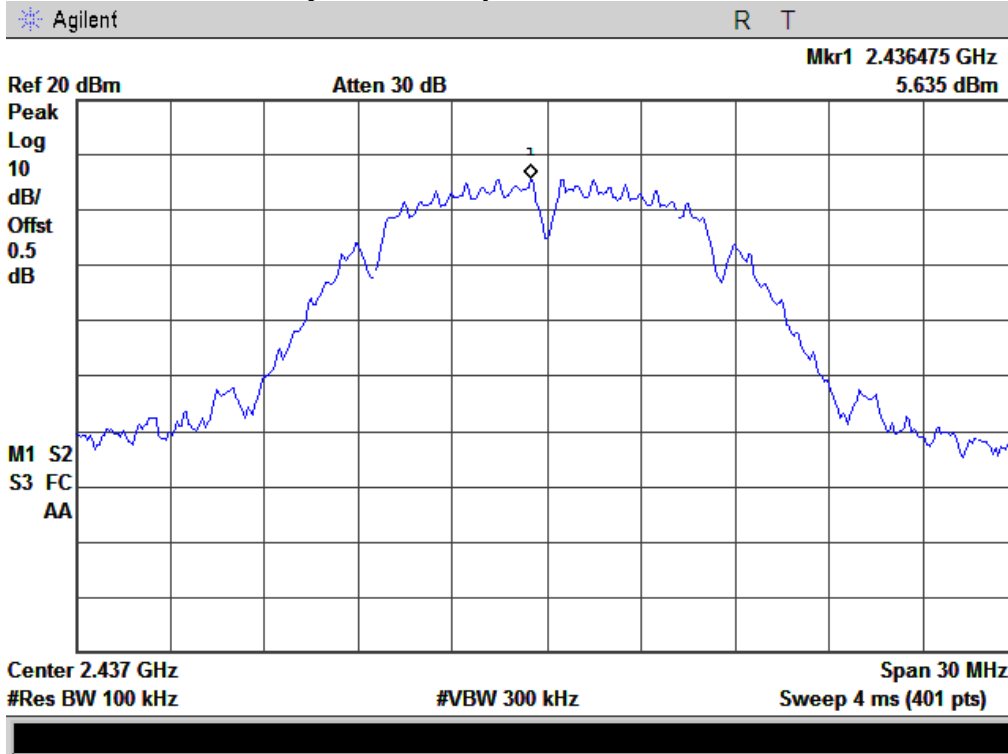
**SIEMIC, INC.**

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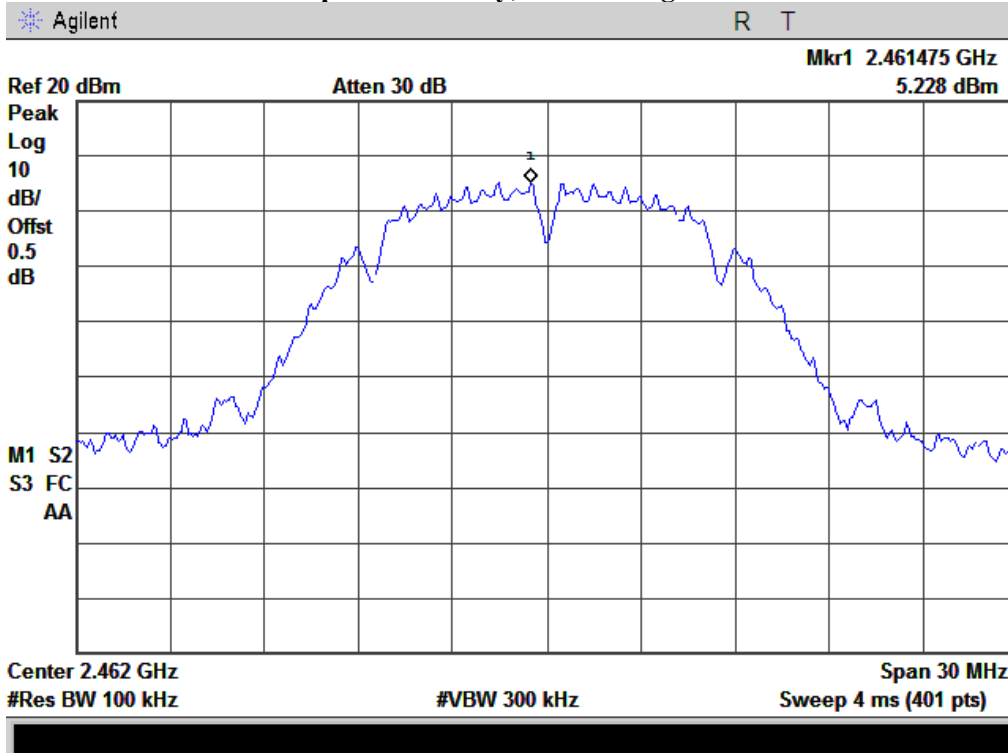
Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
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### Power Spectral Density, 802.11b Middle Channel



### Power Spectral Density, 802.11b High Channel





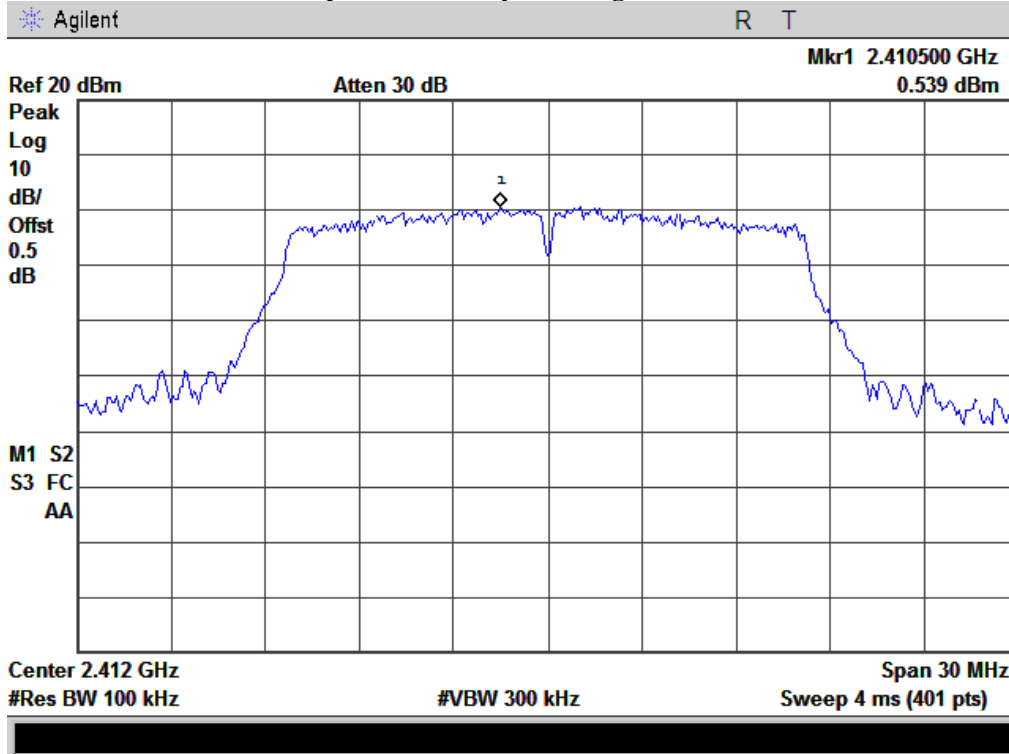
**SIEMIC, INC.**

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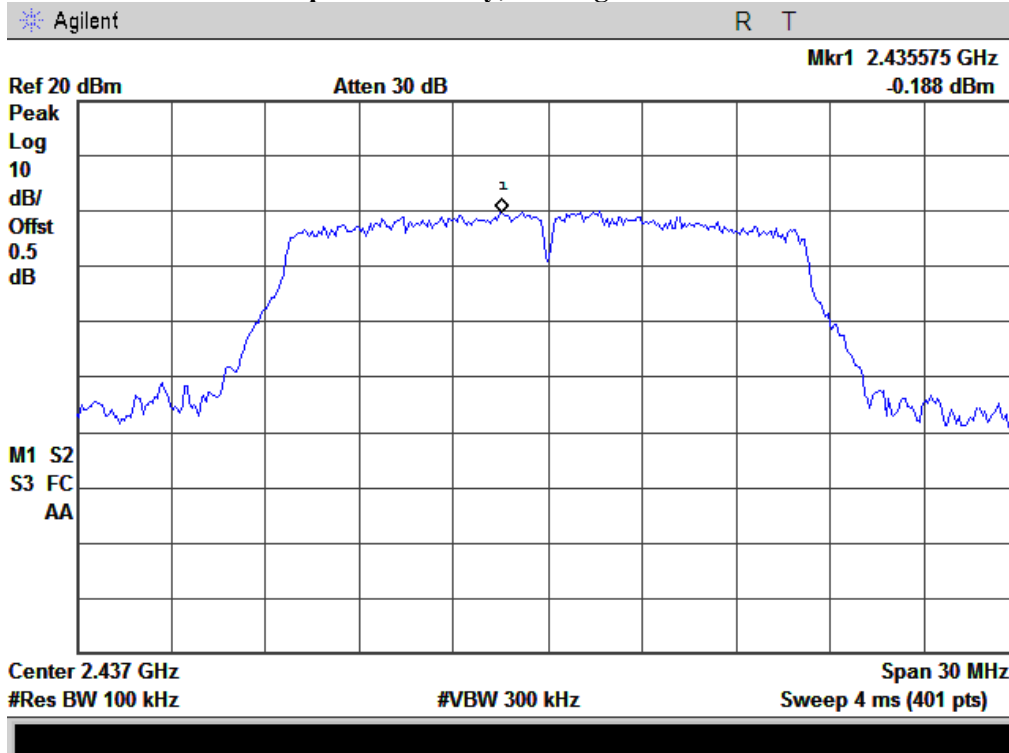
Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
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### Power Spectral Density, 802.11g Low Channel



### Power Spectral Density, 802.11g Middle Channel





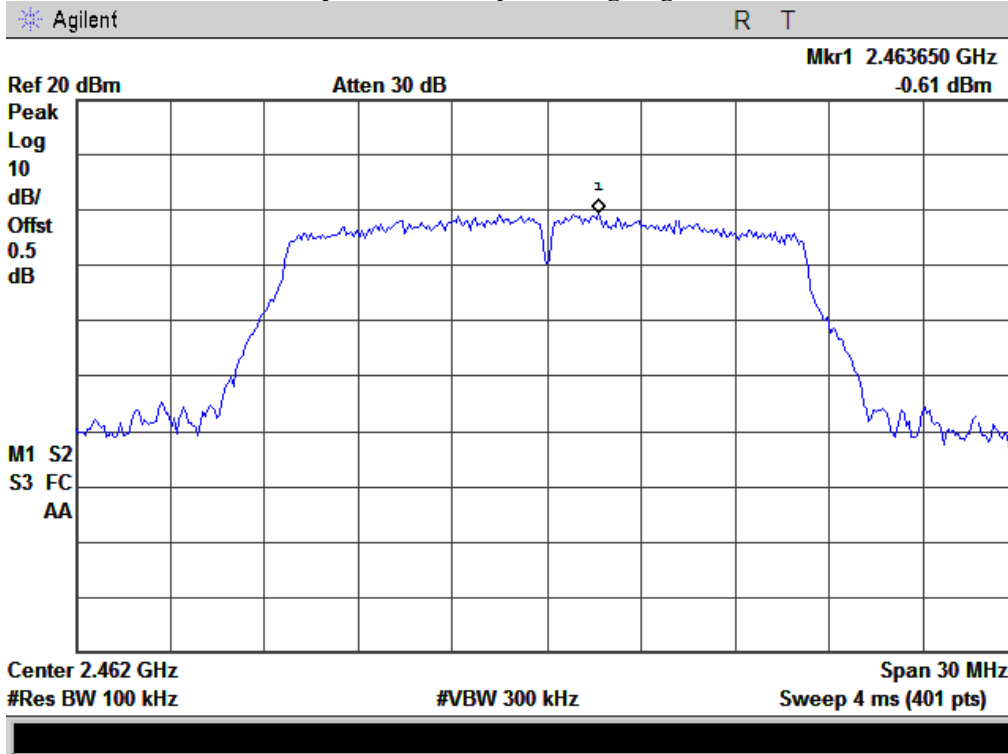
**SIEMIC, INC.**

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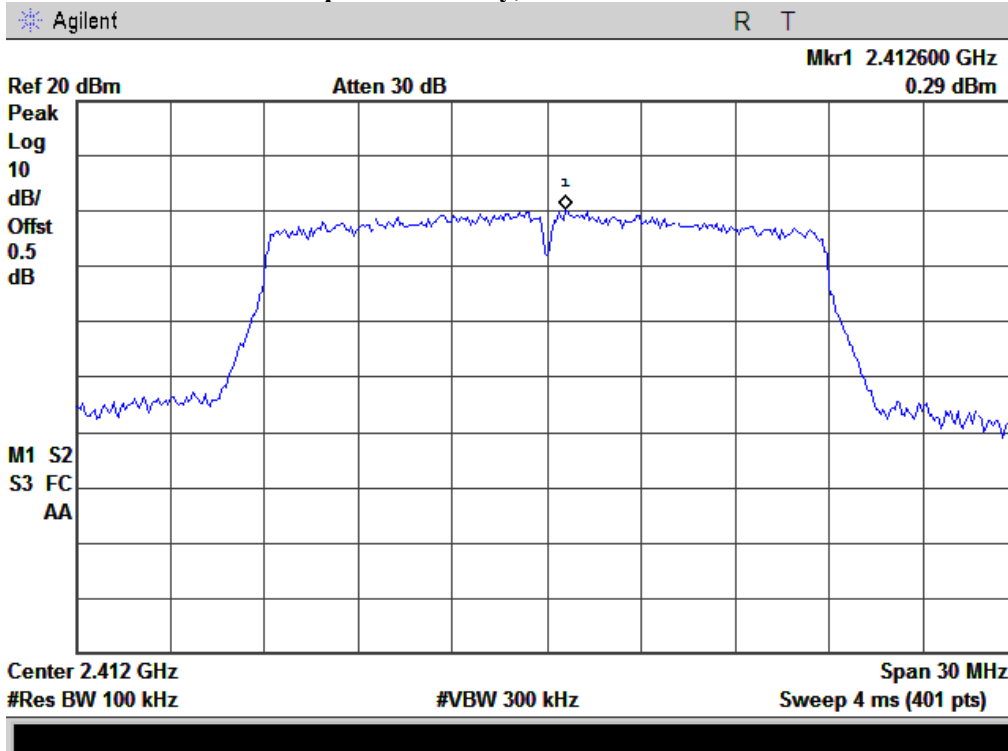
Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
Issue Date: December 24, 2013  
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### Power Spectral Density, 802.11g High Channel



### Power Spectral Density, 802.11n Low Channel





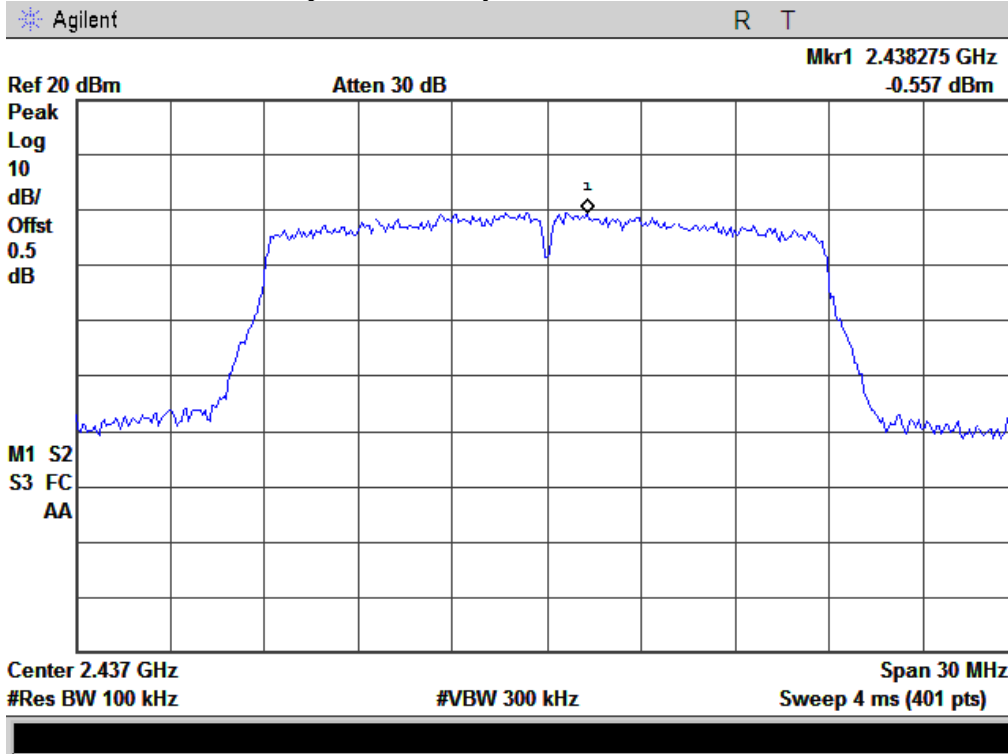
**SIEMIC, INC.**

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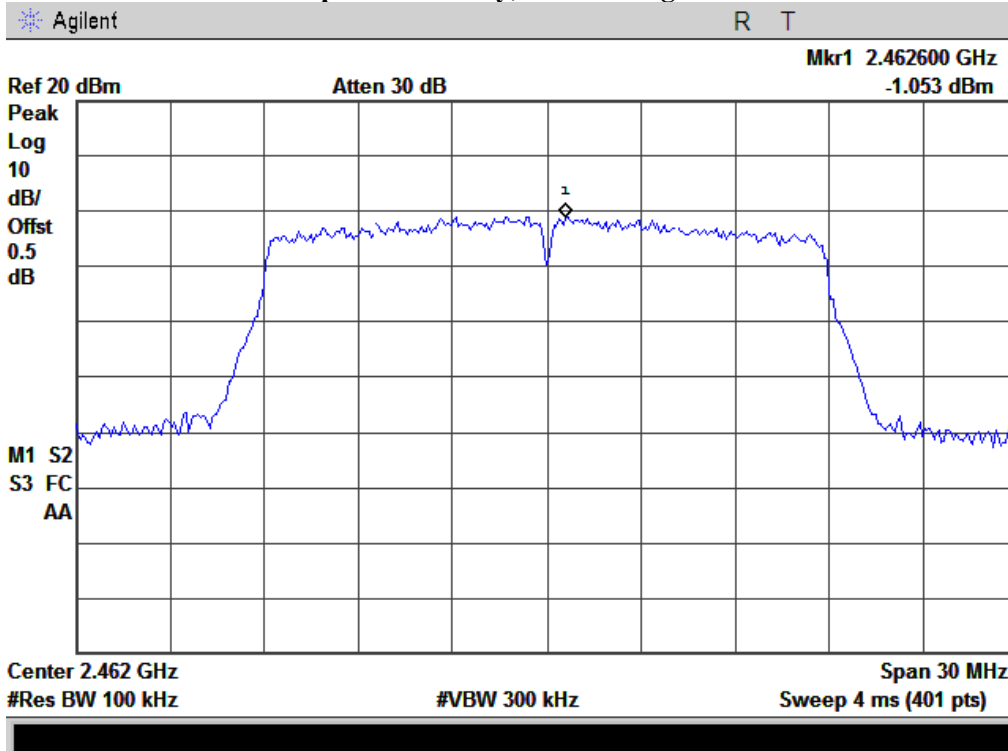
Title: RF Test Report for golo3  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
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### Power Spectral Density, 802.11n Middle Channel



### Power Spectral Density, 802.11n High Channel



## **5.6 §15.247(d) –Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands**

- 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) (see §15.205(c))
- |                          |                      |          |
|--------------------------|----------------------|----------|
| Environmental Conditions | Temperature          | 21 °C    |
|                          | Relative Humidity    | 50%      |
|                          | Atmospheric Pressure | 1019mbar |
- Test date : December 19, 2013  
 Tested By : Herith Shi

### **Requirement(s):**

#### **Band-Edge Measurements**

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

#### **Procedures: (Radiated Method Only)**

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT on the rotated table inside the anechoic chamber without connection to measurement instrument. Turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. Repeat above procedures until all measured frequencies were complete.
- Set band RBW=1MHz, VBW=3MHz with a convenient frequency span from band edge.
- Find the highest point in edge frequency, and then calculated results.
- Repeat above procedures until all measured frequencies were complete.

**Test Result: Pass.**

Please refer to the following tables and plots.



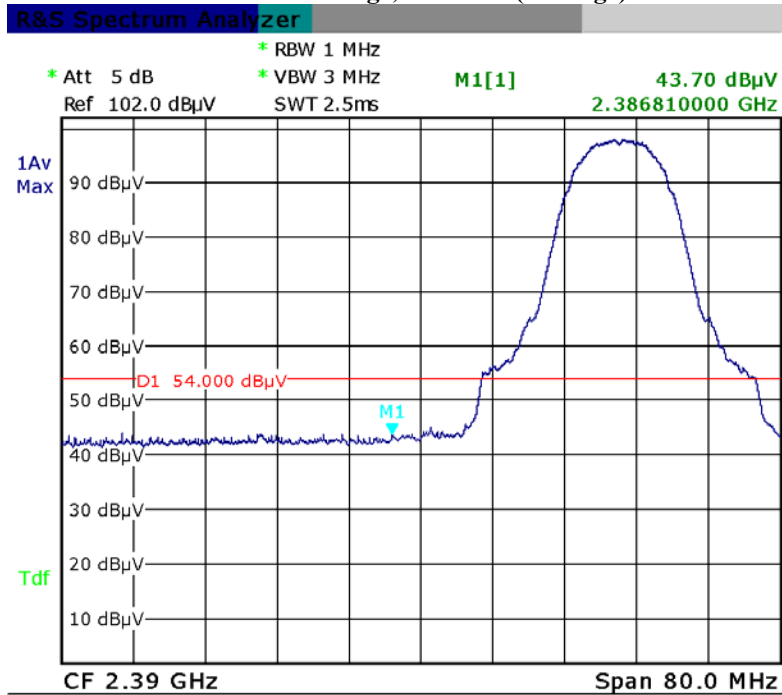
**SIEMIC, INC.**

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Title: RF Test Report for golo<sup>3</sup>  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

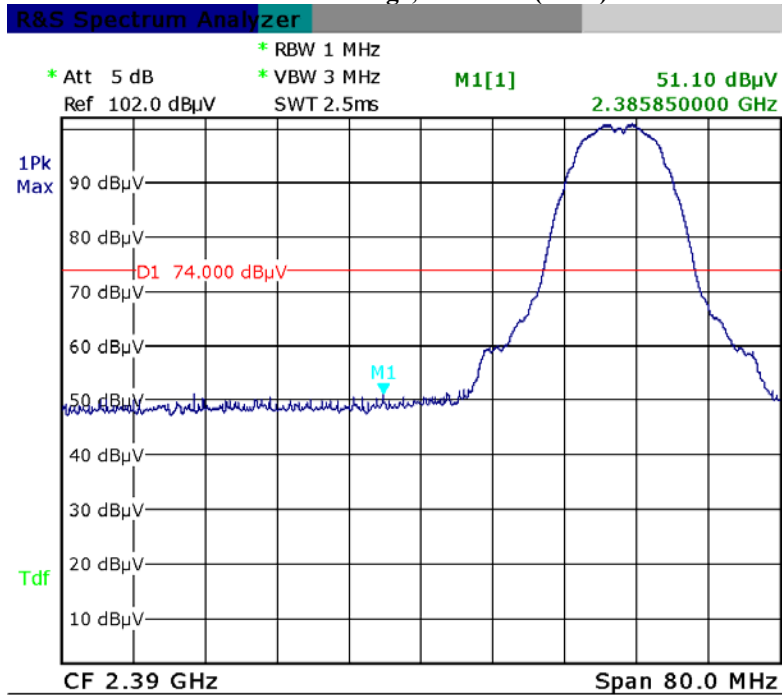
Report No.: 13070593-FCC-R3  
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### 802.11b: Band Edge, Left Side (Average)



Date: 4.DEC.2013 15:26:19

### 802.11b: Band Edge, Left Side (Peak)



Date: 4.DEC.2013 15:27:02











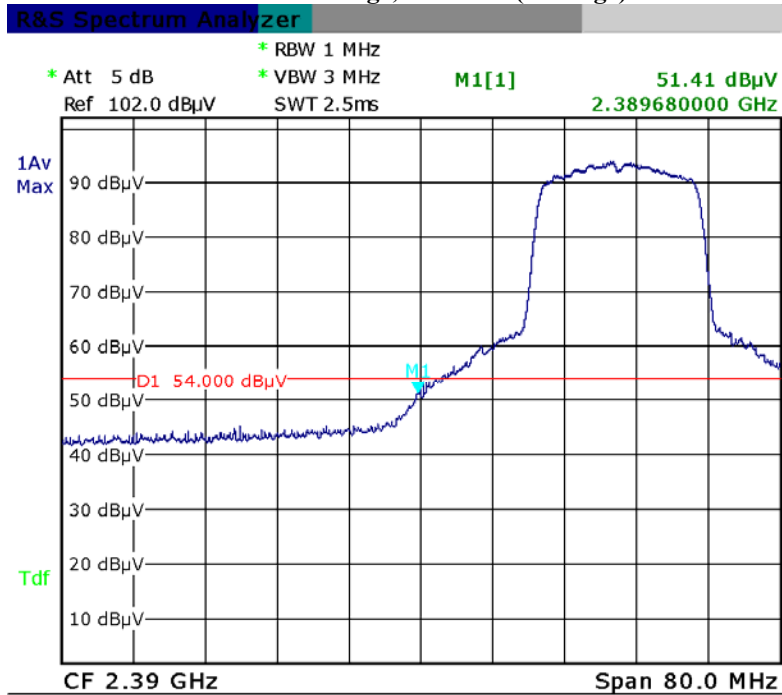
**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for golo<sup>3</sup>  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

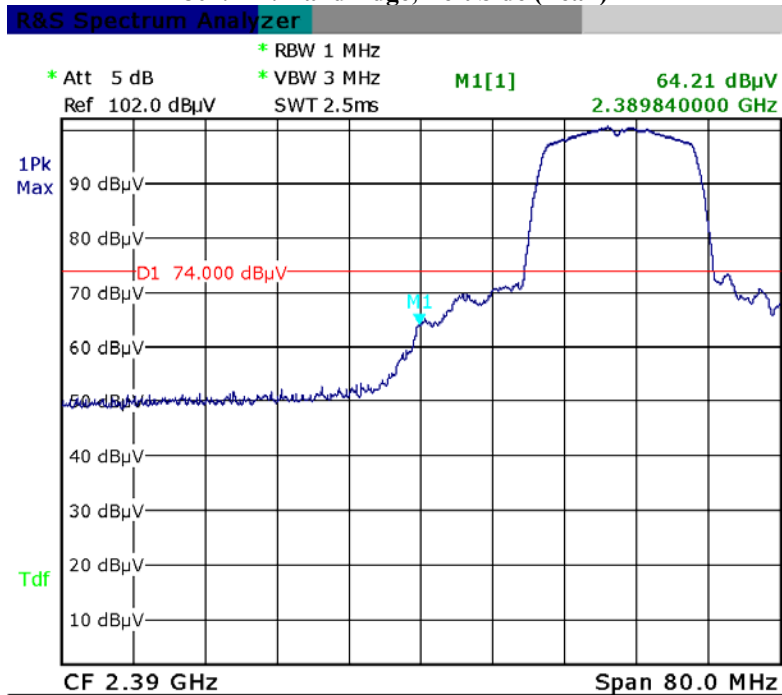
Report No.: 13070593-FCC-R3  
Issue Date: December 24, 2013  
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### 802.11n: Band Edge, Left Side (Average)



Date: 4.DEC.2013 15:13:21

### 802.11n: Band Edge, Left Side (Peak)



Date: 4.DEC.2013 15:22:59



## **5.7 §15.207 (a) - AC Power Line Conducted Emissions**

Requirement:

<b>Frequency of emission (MHz)</b>	<b>Conducted limit (dBμV)</b>	
	<b>Quasi-peak</b>	<b>Average</b>
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

\*Decreases with the logarithm of the frequency.

### **Procedures:**

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ±3.5dB.
4. Environmental Conditions

Temperature	24°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
5. Test date: ----  
Tested By : Herith Shi

**Test Result: N/A**

Battery Operated

## **5.8 §15.209, §15.205 & §15.247(d) - Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands**

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz & 1GHz above ( 3m & 10m) is +/-6dB.
4. Environmental Conditions

Temperature	23°C
Relative Humidity	50%
Atmospheric Pressure	1017mbar
5. Test date : December 10, 2013  
Tested By : Herith Shi

**Requirement: §15.247(d)** specifies that emissions which fall in the restricted bands, as defined in **§15.205(a)**, must comply with the radiated emission limits specified in **§15.209(a)**.

### **Procedures:**

#### **Radiated Spurious Emissions Measurement**

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Established procedures for performing radiated measurements shall be used (see C63.10). All detected emissions must comply with the applicable limits.

#### **Measurement Detectors**

**§15.35(a)** specifies that on frequencies less than and below 1000 MHz, the radiated emissions limits assume the use of a CISPR quasi-peak detector function and related measurement bandwidths. **§15.35(b)** specifies that on frequencies above 1000 MHz, the radiated emissions limits assume the use of an average detector and a minimum resolution bandwidth of 1 MHz. In addition, **§15.35(b)** that when average radiated emissions measurements are specified there is also a limit on the peak emissions level which is 20 dB above the applicable maximum permitted average emission limit. These specifications also apply to conducted emissions measurements.

#### **1. CISPR Quasi-Peak Measurement**

The specifications for the measuring instrument using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electro technical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

#### **2. Peak Power Measurement Procedure**

Utilize the peak power measurement procedure specified in Section 8.1.1 with the following modifications:

Set analyzer center frequency to the frequency associated with the restricted band emission under examination.

Set RBW = 1 MHz.

Note that if the peak measured value complies with the average limit, it is not necessary to perform a separate average measurement. If this option is exercised, it should be so noted in the test report.

#### **3. Average Power Measurement Procedures**

The average restricted band emission levels must be measured with the EUT transmitting continuously ( $\geq 98\%$  duty cycle) at its maximum power control level. Optionally, video triggering/signal gating can be used to ensure that measurements are performed only when the EUT is transmitting at its maximum power control level.

The average power measurement procedures described in Section 8.2 shall be used with the following modifications:

Set analyzer center frequency to the frequency associated with the restricted band emission.



Set span to at least 1 MHz.

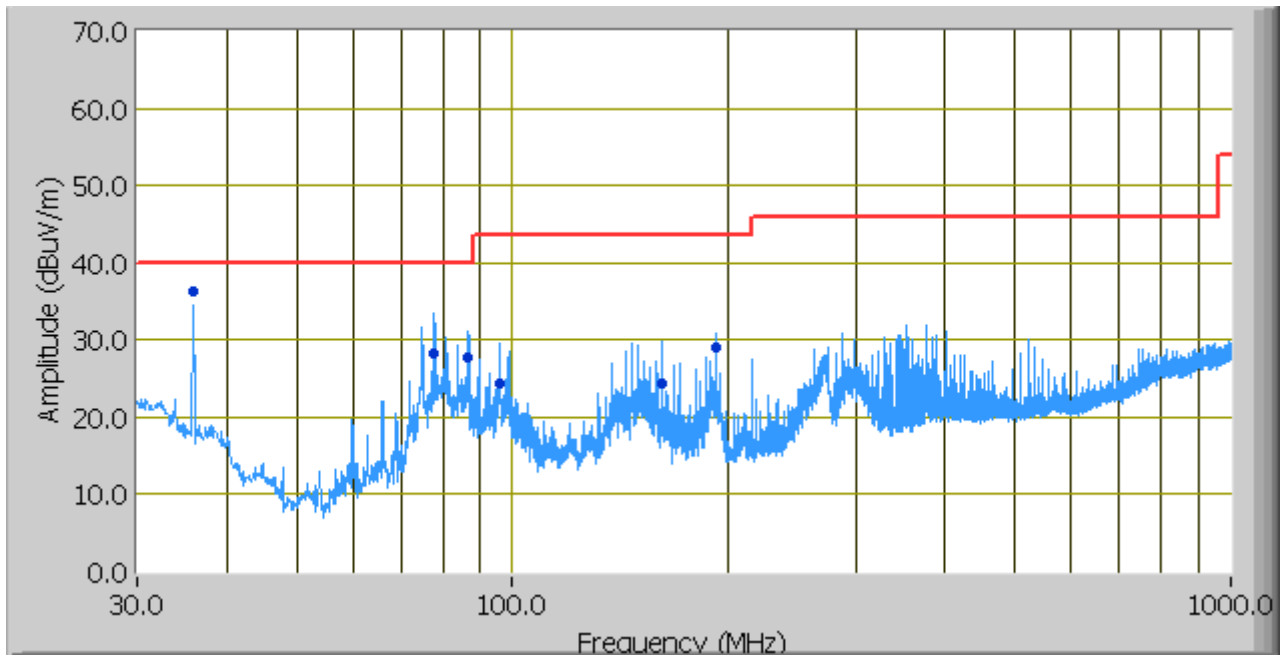
Use peak marker function to determine the highest amplitude within the RBW (1 MHz).

**Test Result: Pass**

<b>Test Mode:</b>	<b>Transmitting Mode(Worse Case)</b>
-------------------	--------------------------------------

**(Below 1GHz)**

Peak Detector   
 Quasi Peak Limit 



**Test Data**

**Vertical & Horizontal Polarity Plot @3m**

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H/V)	Height (cm)	Factors (dB)	Limit (dBuV)	Margin (dB)
35.97	36.23	198.00	V	100.00	-4.81	40.00	-3.77
77.80	28.38	203.00	H	199.00	-13.72	40.00	-11.62
86.78	27.64	187.00	H	212.00	-13.78	40.00	-12.36
191.82	29.14	278.00	H	129.00	-8.43	43.52	-14.38
161.73	24.50	275.00	H	157.00	-8.22	43.52	-19.02
95.77	24.48	161.00	H	242.00	-12.65	43.52	-19.04



**Above 1 GHz:**

*Test Mode: Transmitting*

**Note: Other modes were verified, only the result of worst case basic rate mode was presented.**

**Mode: 802.11b**  
 Low Channel (2412 MHz)

Frequency (MHz)	Substituted level (dBµV/m)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4824	33.85	AV	140	1	V	34	4.87	26.79	46.46	54	-7.54
4824	40.51	AV	209	1	H	33.8	4.87	26.79	52.03	54	-1.97
4824	42.99	PK	140	1	V	34	4.87	26.79	55.88	74	-18.12
4824	46.11	PK	209	1	H	33.8	4.87	26.79	58.43	74	-15.57

Middle Channel (2437 MHz)

Frequency (MHz)	Substituted level (dBµV/m)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4874	38.52	AV	267	1	V	33.6	4.87	26.78	50.21	54	-3.79
4874	40.61	AV	210	1	H	33.8	4.87	26.78	52.5	54	-1.5
4874	45.59	PK	267	1	V	33.6	4.87	26.78	57.28	74	-16.72
4874	47.22	PK	210	1	H	33.8	4.87	26.78	59.11	74	-14.89

High Channel (2462 MHz)

Frequency (MHz)	Substituted level (dBµV/m)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4924	38.32	AV	260	1	V	34.6	4.87	26.75	51.04	54	-2.96
4924	40.12	AV	211	1	H	34.7	4.87	26.75	52.94	54	-1.06
4924	43.25	PK	260	1	V	34.6	4.87	26.75	55.97	74	-18.03
4924	46.31	PK	211	1	H	34.7	4.87	26.75	59.13	74	-14.87

**Annex A. TEST INSTRUMENT & METHOD**

**Annex A. i. TEST INSTRUMENTATION & GENERAL PROCEDURES**

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
<b>RF conducted test</b>				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	CFG038	10/25/2013	10/24/2014
Power Splitter	1#	1#	02/02/2013	02/01/2014
Temperature/Humidity Chamber	1007H	N/A	01/07/2013	01/06/2014
DC Power Supply	E3640A	MY4000401 3	03/22/2013	03/21/2014
<b>Radiated Emissions</b>				
EMI test receiver	ESL6	100262	11/19/2013	11/19/2014
Positioning Controller	UC3000	MF78020828 2	11/19/2013	11/18/2014
OPT 010 AMPLIFIER(0.1-1300MHz)	8447E	2727A02430	11/19/2013	11/18/2014
Microwave Preamplifier(0.5~18GHz)	PAM-118	443008	11/08/2013	11/07/2014
Bilog Antenna (30MHz~6GHz)	JB6	A110712	01/27/2013	01/26/2014
Double Ridge Horn Antenna (1~18GHz)	AH-118	071283	11/20/2013	11/19/2014

**Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION**

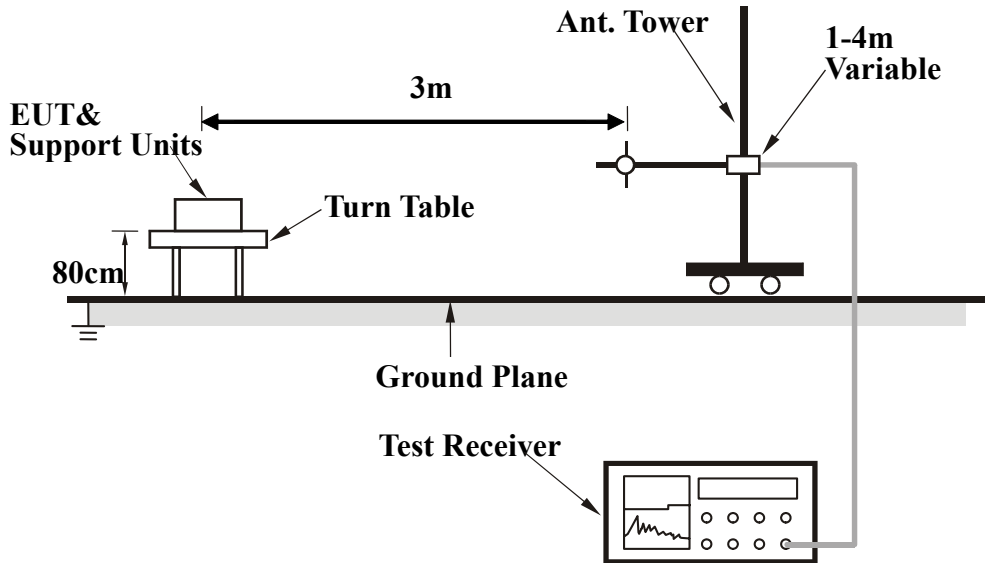
**EUT Characterisation**

EUT characterisation, over the frequency range from 30MHz to 10<sup>th</sup> Harmonic , was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

**Test Set-up**

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



**Test Method**

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

**Final Radiated Emission Measurement**

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured was complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

**Sample Calculation Example**

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor or}$$

$$\text{Set RBW} = 1\text{MHz, VBW} = 10\text{Hz.}$$

Note :

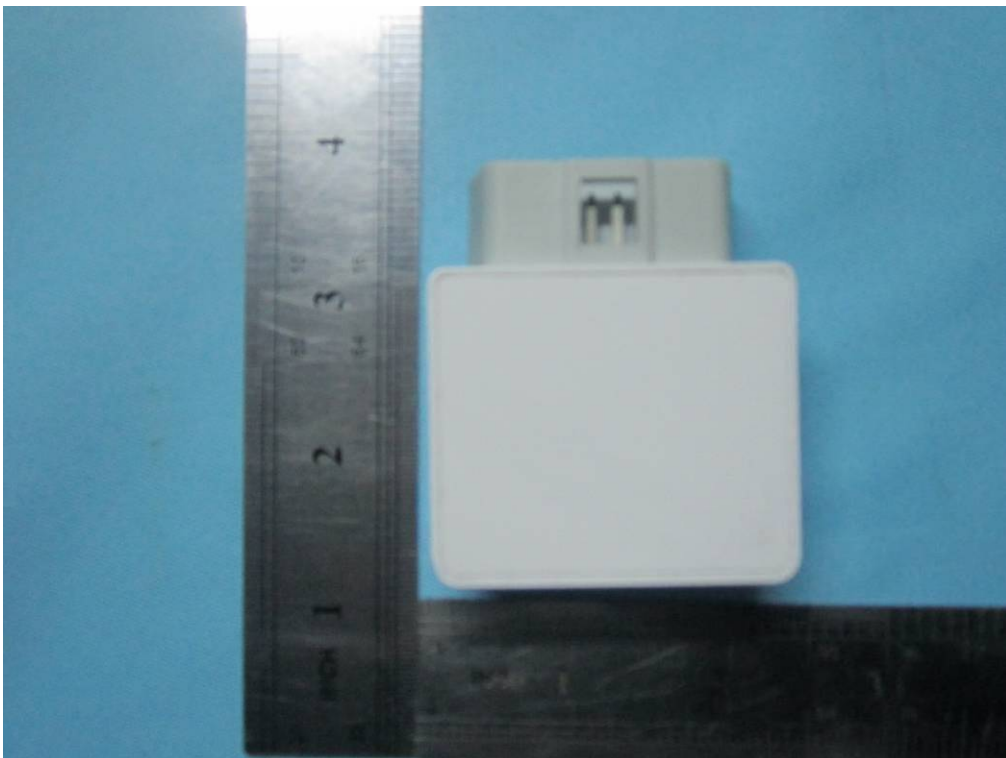
If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

**Annex B. EUT AND TEST SETUP PHOTOGRAPHS**

**Annex B. i. Photograph 1: EUT External Photo**



EUT - Front View



EUT - Rear View



EUT - Top View



EUT - Bottom View



**SIEMIC, INC.**

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Title: RF Test Report for golo<sup>3</sup>  
Main Model: golo3  
Serial Model: N/A  
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070593-FCC-R3  
Issue Date: December 24, 2013  
Page: 55 of 66  
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EUT - Left View



EUT - Right View

**Annex B.ii. Photograph 2: EUT Internal Photo**

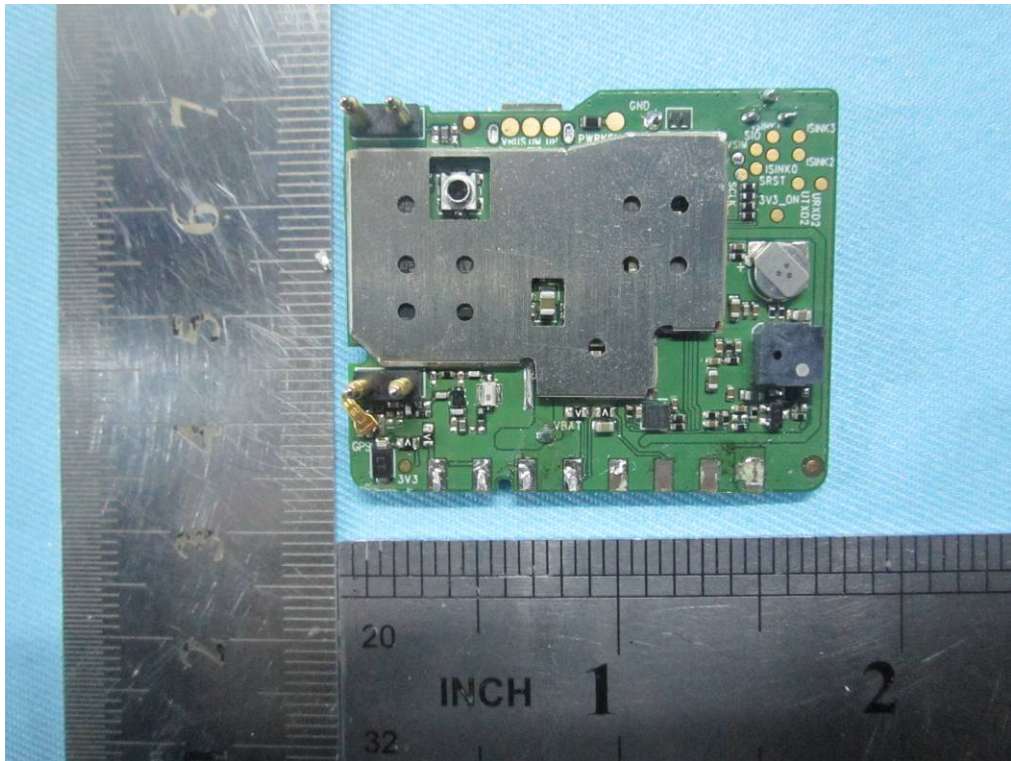


Cover Off - Front View

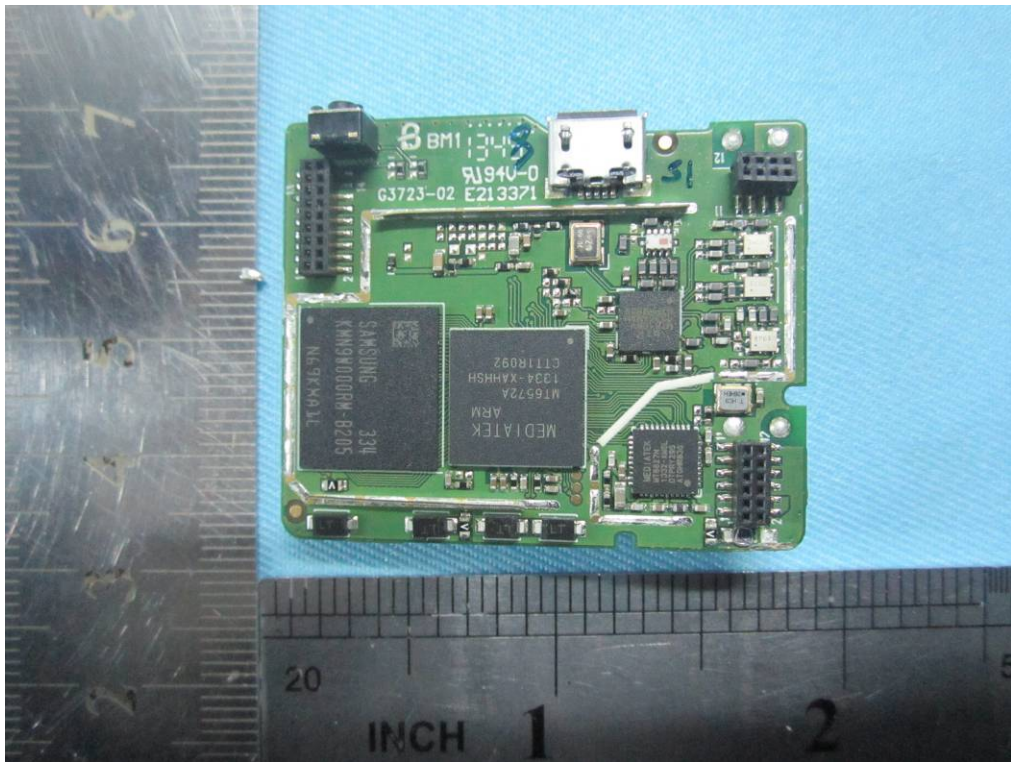


Main board With Shielding - Top View

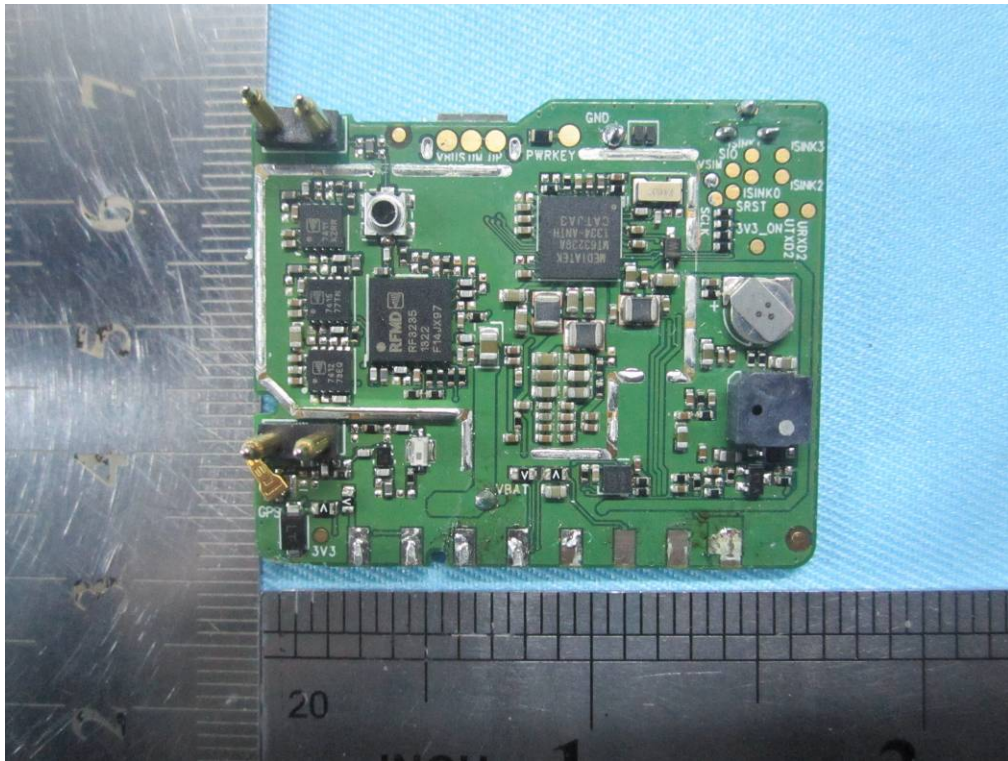




Main board With Shielding - Bottom View



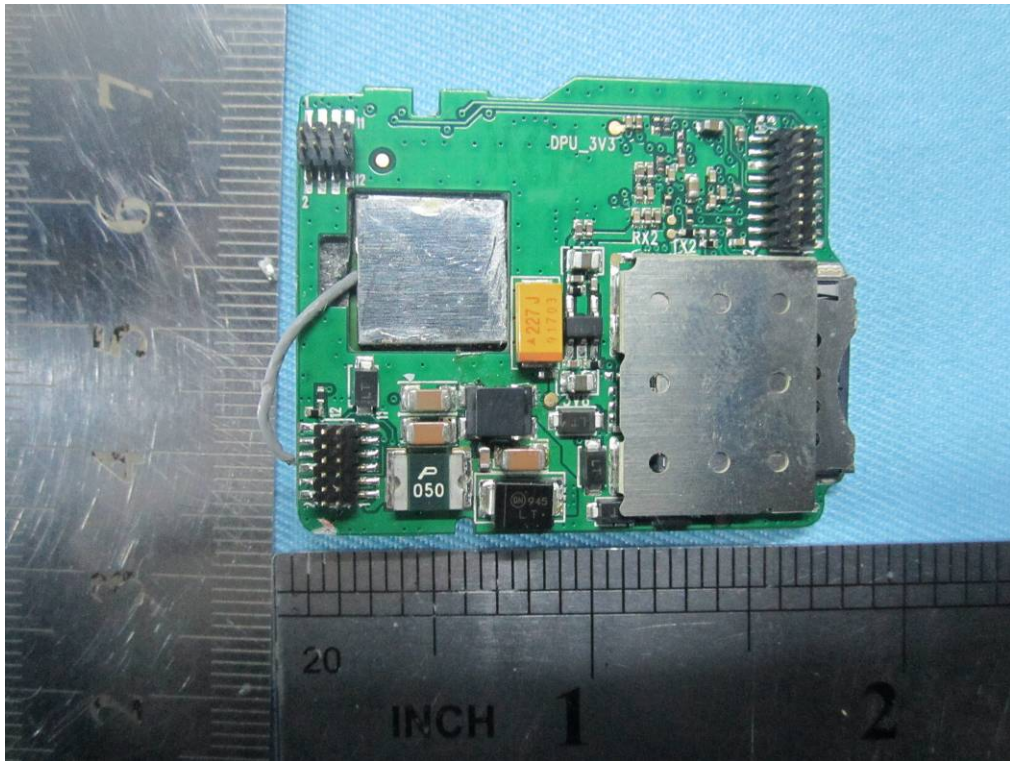
Main board Without Shielding - Top View



Main board Without Shielding - Bottom View



Data Collection board With Shielding – Top View



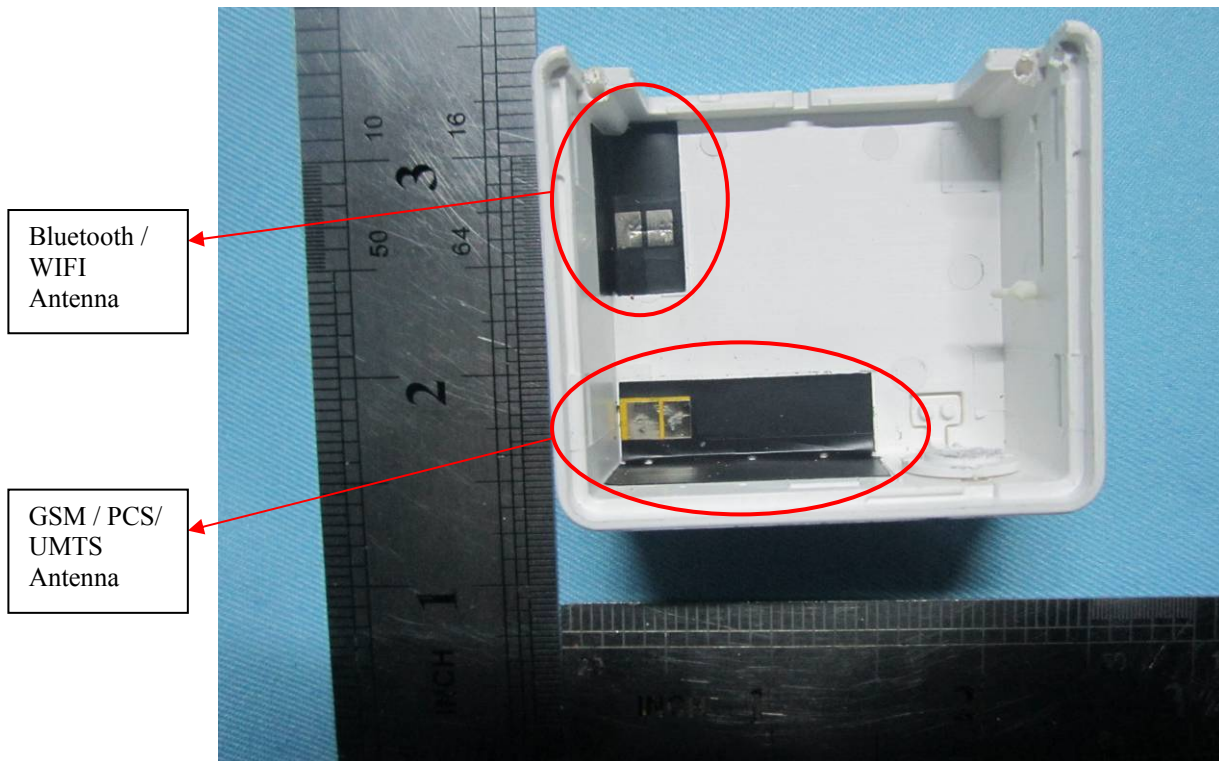
Data Collection board With Shielding – Bottom View



Data Collection board Without Shielding – Top View

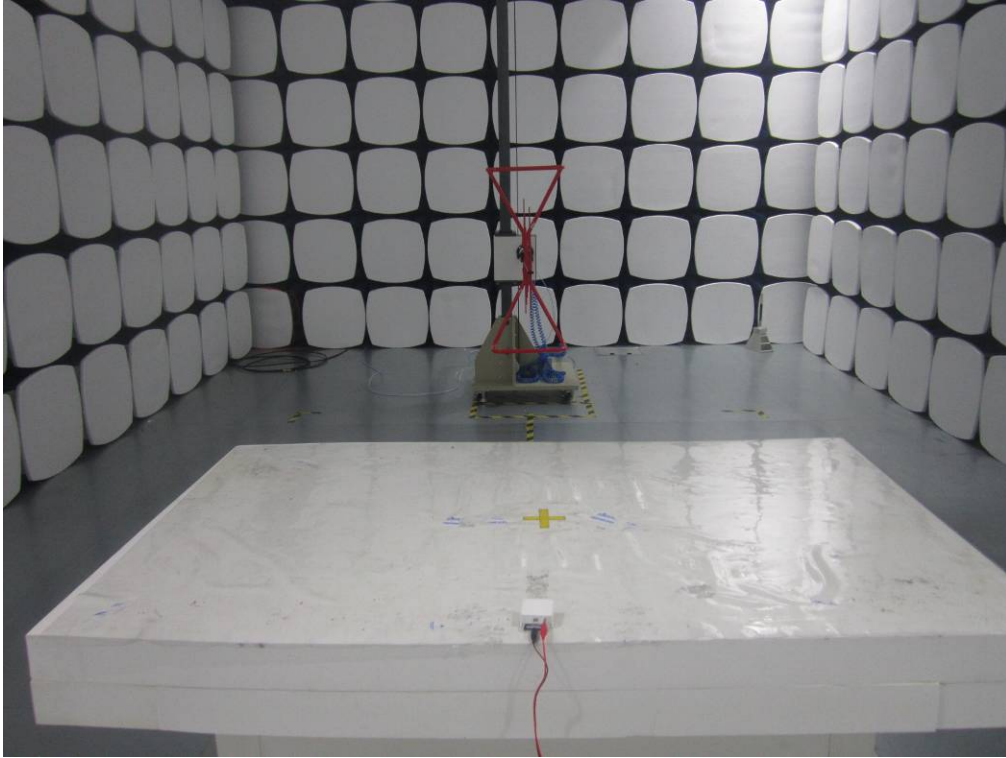


Data Collection board Without Shielding – Bottom View

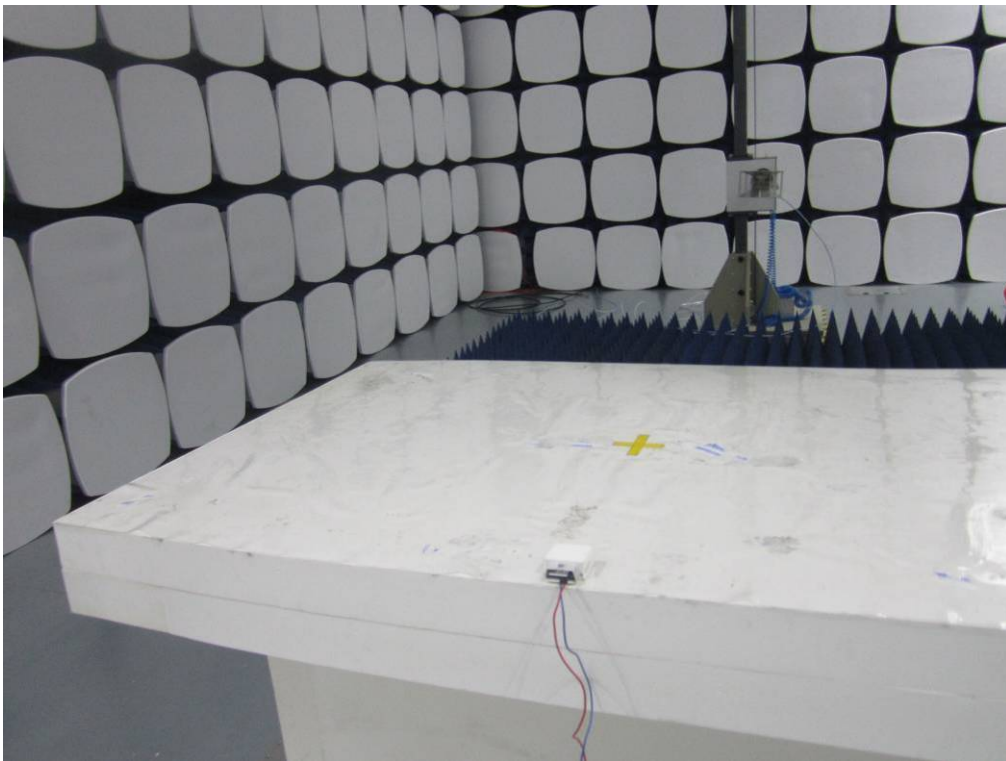


Antenna View

**Annex B.iii. Photograph 3: Test Setup Photo**



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz –Front View

**Annex C. TEST SETUP AND SUPPORTING EQUIPMENT**

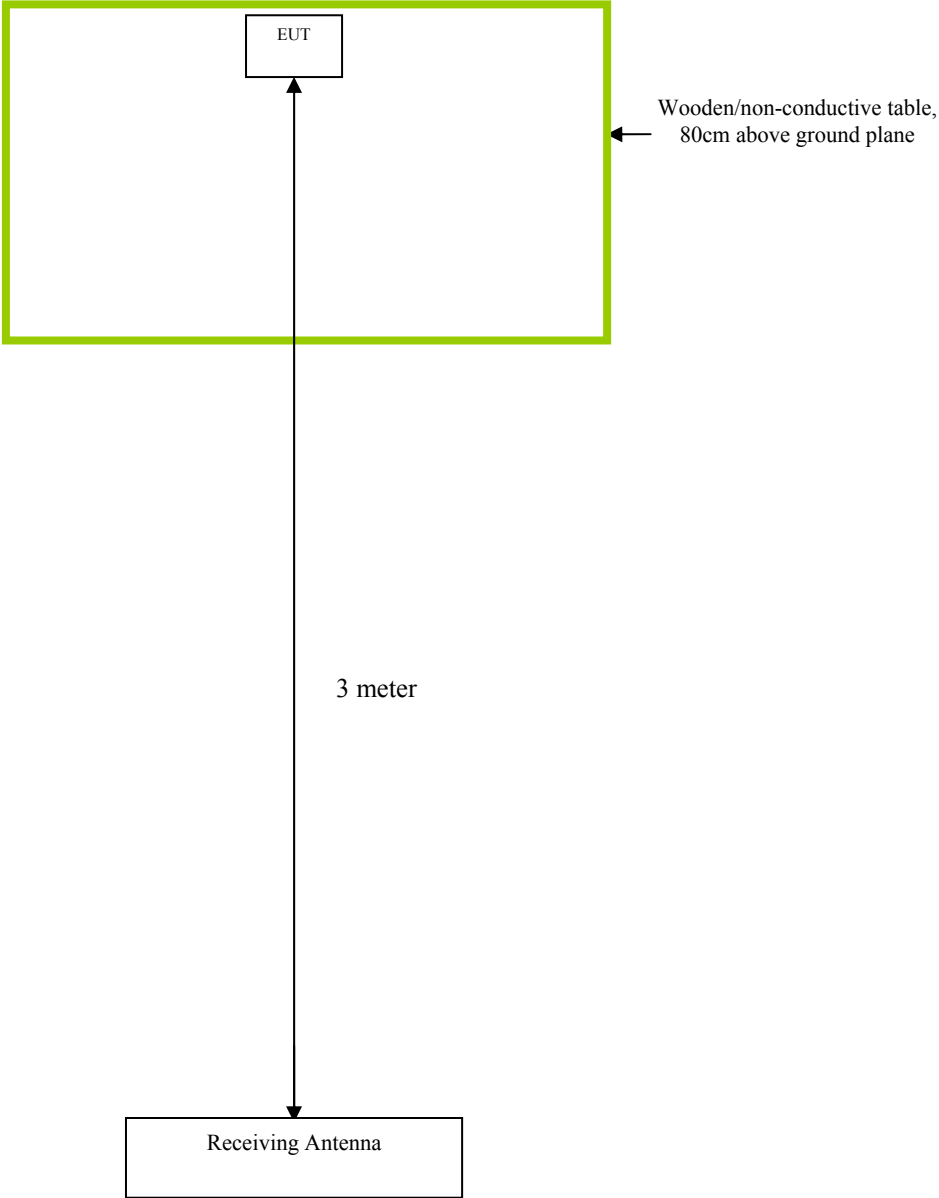
**EUT TEST CONDITIONS**

**Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

<b>Equipment Description (Including Brand Name)</b>	<b>Model &amp; Serial Number</b>	<b>Cable Description (List Length, Type &amp; Purpose)</b>
N/A	N/A	N/A

### Block Configuration Diagram for Radiated Emissions



**Annex C. ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
<b>Emissions Testing</b>	The EUT was continuously transmitting to stimulate the worst case.





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## **Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST**

**Please see attachment**



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## **Annex E. DECLARATION OF SIMILARITY**

**N/A**