



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

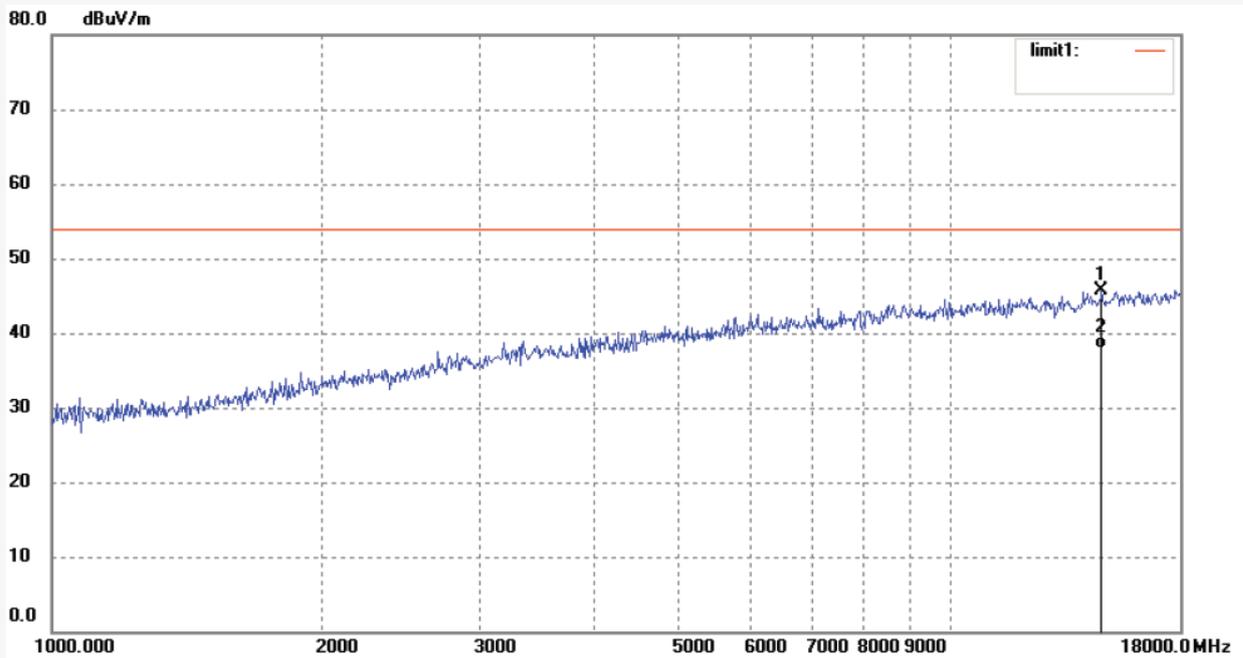
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2014 #1988  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: MID  
Mode: TX Channel 11(802.11b)  
Model: PC803BXC  
Manufacturer: Natural Sound

Polarization: Horizontal  
Power Source: AC 120V/50Hz  
Date: 15/04/09/  
Time: 11/18/35  
Engineer Signature: STAR  
Distance: 3m

Note: Report No.:ATE20150661

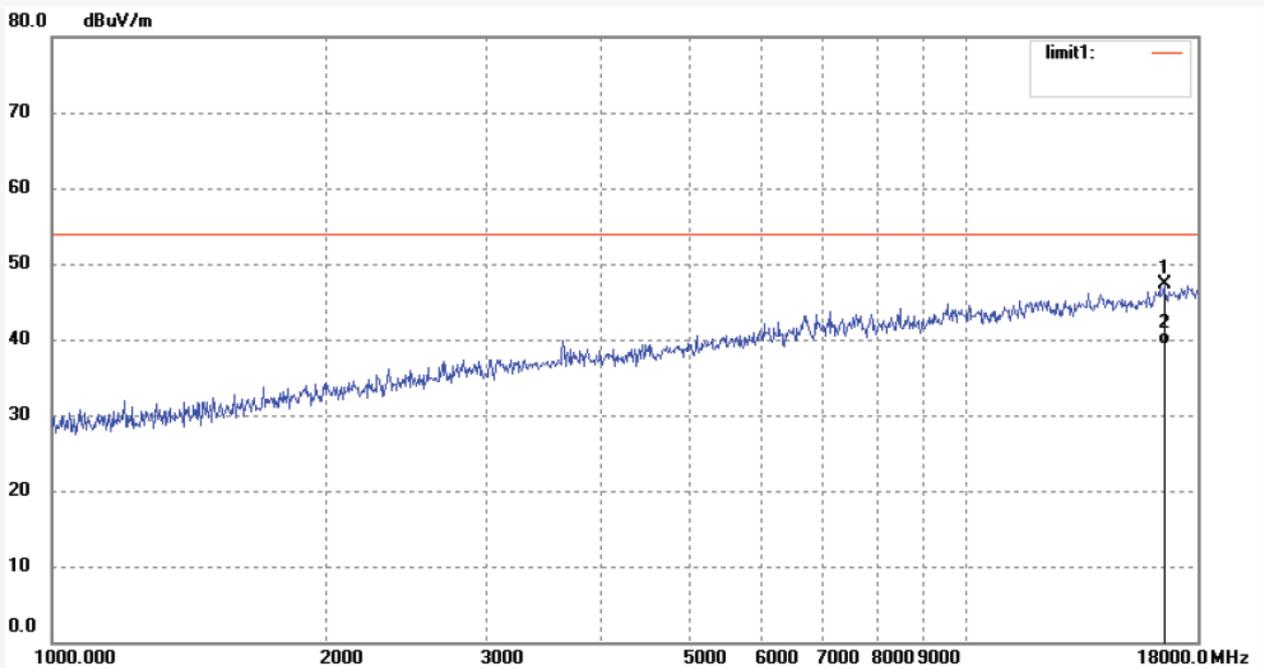


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 14724.757   | 31.49            | 14.23       | 45.72           | 54.00          | -8.28       | peak     |             |               |        |
| 2   | 14724.757   | 23.61            | 14.23       | 37.84           | 54.00          | -16.16      | AVG      |             |               |        |

Job No.: star2014 #1989  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 55 %  
 EUT: MID  
 Mode: TX Channel 1(802.11g)  
 Model: PC803BXC  
 Manufacturer: Natural Sound

Polarization: Horizontal  
 Power Source: AC 120V/50Hz  
 Date: 15/04/09/  
 Time: 11/22/26  
 Engineer Signature: STAR  
 Distance: 3m

Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 16542.951   | 33.42            | 13.80       | 47.22           | 54.00          | -6.78       | peak     |             |               |        |
| 2   | 16542.951   | 25.54            | 13.80       | 39.34           | 54.00          | -14.66      | AVG      |             |               |        |



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Site: 1# Chamber

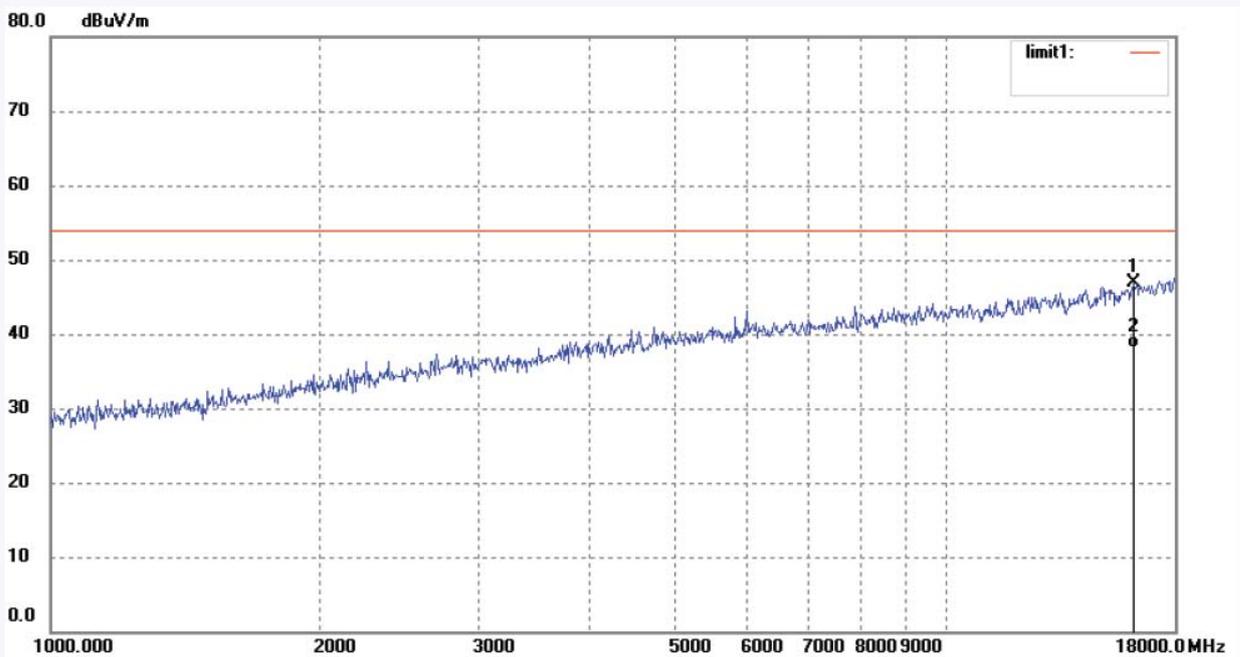
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2014 #1990  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: MID  
Mode: TX Channel 1(802.11g)  
Model: PC803BXC  
Manufacturer: Natural Sound

Polarization: Vertical  
Power Source: AC 120V/50Hz  
Date: 15/04/09/  
Time: 11/26/29  
Engineer Signature: STAR  
Distance: 3m

Note: Report No.:ATE20150661

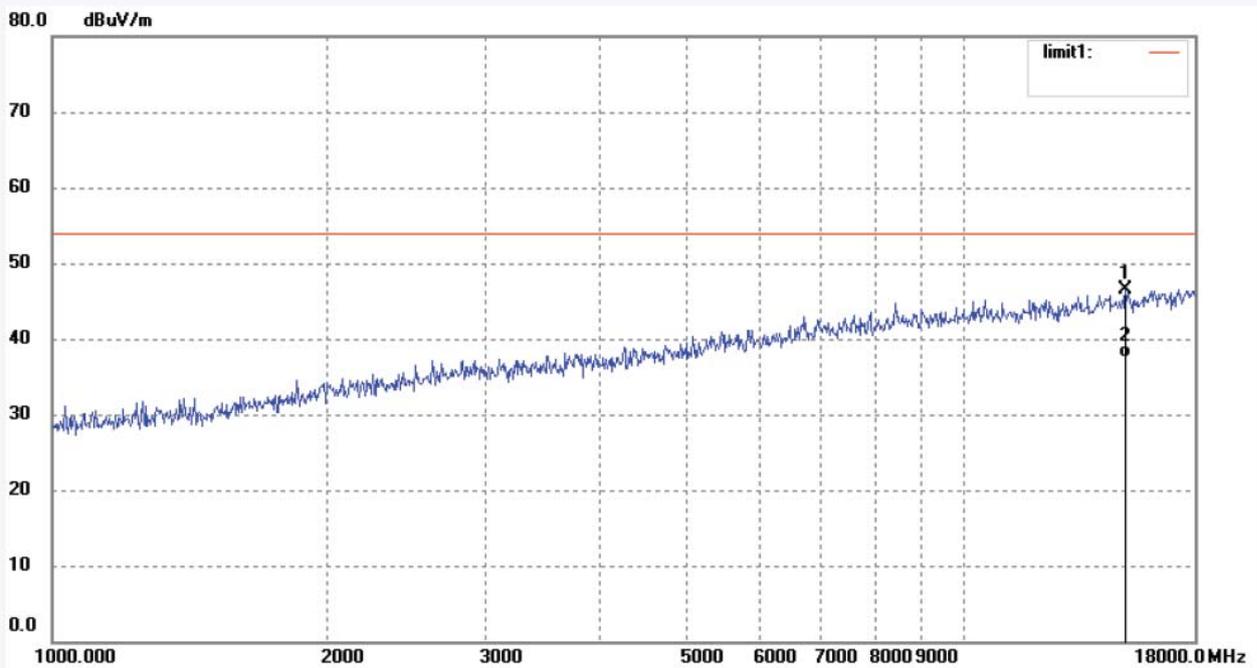


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 16209.295   | 33.49            | 13.41       | 46.90           | 54.00          | -7.10       | peak     |             |               |        |
| 2   | 16209.295   | 24.64            | 13.41       | 38.05           | 54.00          | -15.95      | AVG      |             |               |        |

Job No.: star2014 #1991  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 55 %  
 EUT: MID  
 Mode: TX Channel 6(802.11g)  
 Model: PC803BXC  
 Manufacturer: Natural Sound

Polarization: Vertical  
 Power Source: AC 120V/50Hz  
 Date: 15/04/09/  
 Time: 11/30/12  
 Engineer Signature: STAR  
 Distance: 3m

Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 15115.594   | 32.76            | 13.71       | 46.47           | 54.00          | -7.53       | peak     |             |               |        |
| 2   | 15115.594   | 23.89            | 13.71       | 37.60           | 54.00          | -16.40      | AVG      |             |               |        |



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
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Report No.: ATE20150661

Page 65 of 100

Site: 1# Chamber

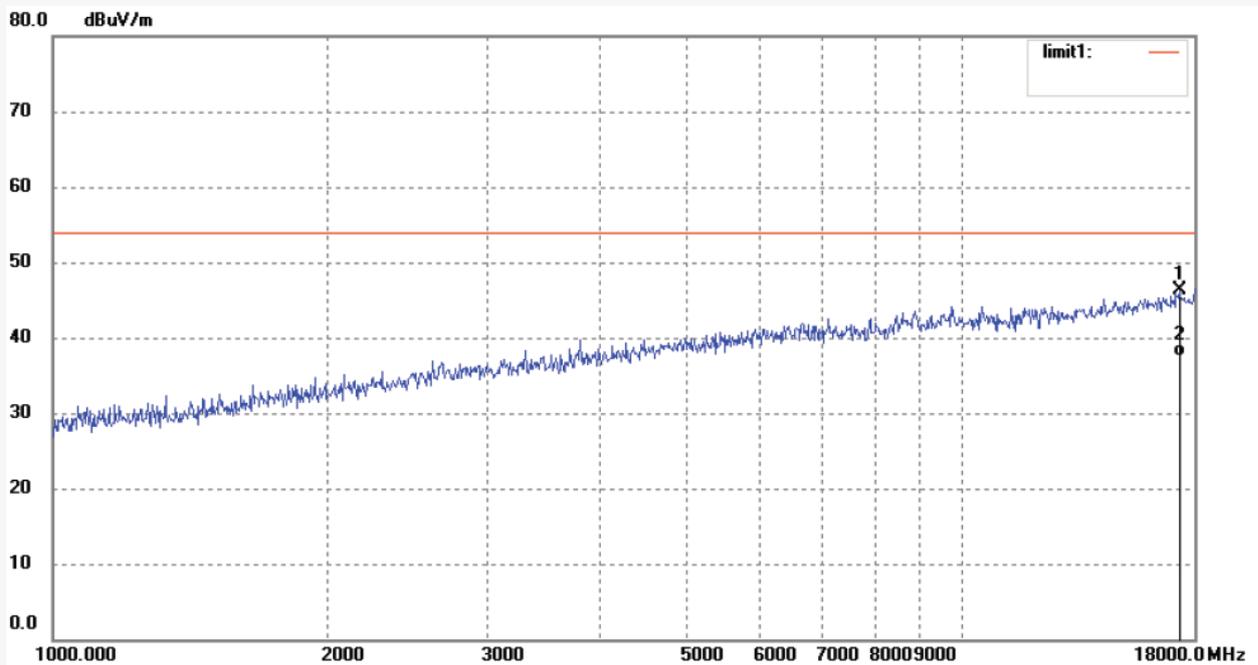
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2014 #1992  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: MID  
Mode: TX Channel 6(802.11g)  
Model: PC803BXC  
Manufacturer: Natural Sound

Polarization: Horizontal  
Power Source: AC 120V/50Hz  
Date: 15/04/09/  
Time: 11/33/57  
Engineer Signature: STAR  
Distance: 3m

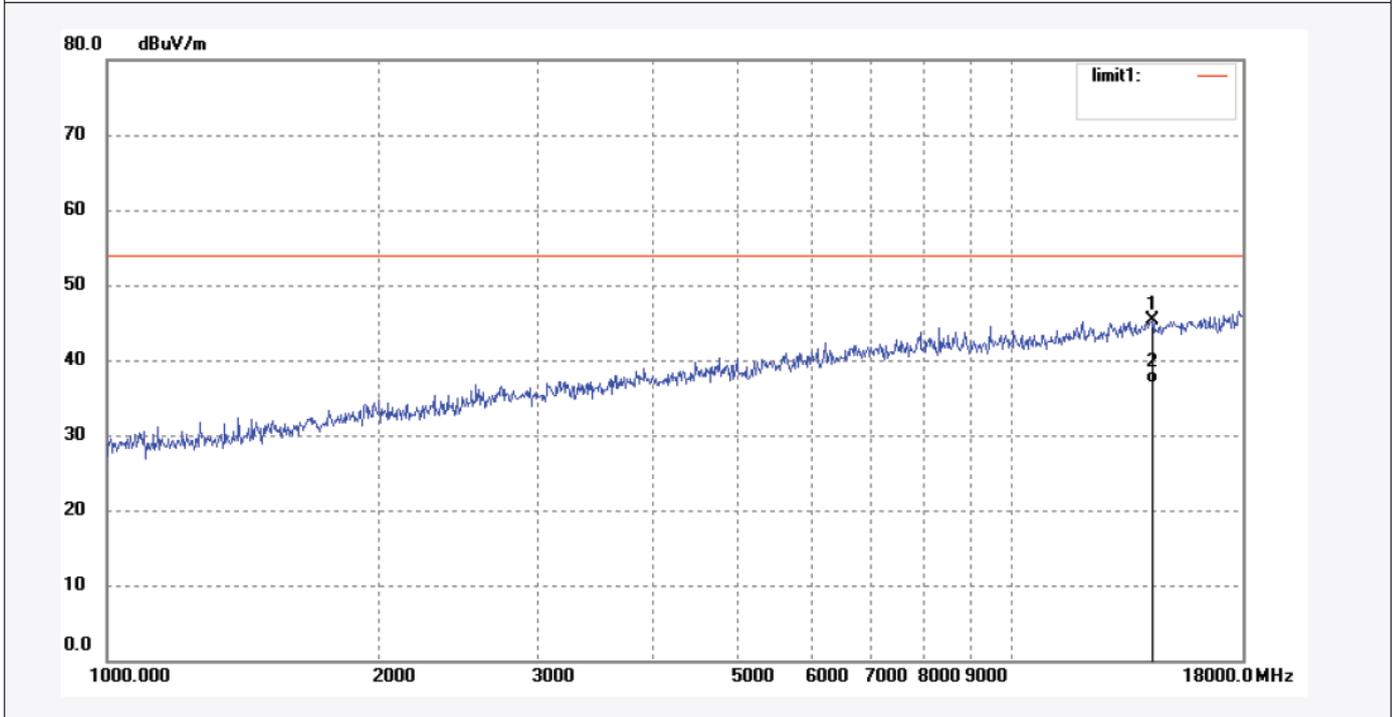
Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 17331.611   | 29.50            | 16.72       | 46.22           | 54.00          | -7.78       | peak     |             |               |        |
| 2   | 17331.611   | 20.88            | 16.72       | 37.60           | 54.00          | -16.40      | AVG      |             |               |        |

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: star2014 #1993           | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/50Hz |
| Test item: Radiation Test         | Date: 15/04/09/            |
| Temp.( C)/Hum.(%) 25 C / 55 %     | Time: 11/37/51             |
| EUT: MID                          | Engineer Signature: STAR   |
| Mode: TX Channel 11(802.11g)      | Distance: 3m               |
| Model: PC803BXC                   |                            |
| Manufacturer: Natural Sound       |                            |

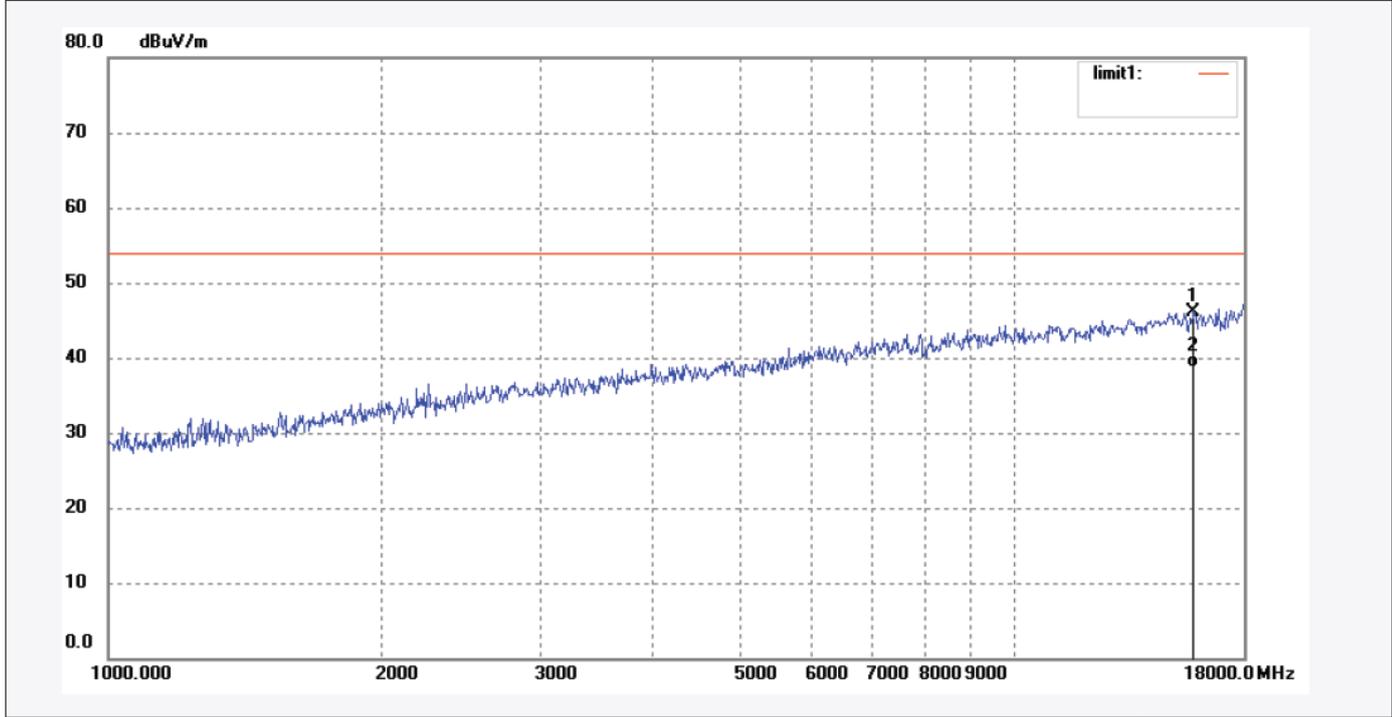
Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 14302.334   | 31.99            | 13.40       | 45.39           | 54.00          | -8.61       | peak     |             |               |        |
| 2   | 14302.334   | 23.47            | 13.40       | 36.87           | 54.00          | -17.13      | AVG      |             |               |        |

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: star2014 #1994           | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/50Hz |
| Test item: Radiation Test         | Date: 15/04/09/            |
| Temp.( C)/Hum.(%) 25 C / 55 %     | Time: 11/40/32             |
| EUT: MID                          | Engineer Signature: STAR   |
| Mode: TX Channel 11(802.11g)      | Distance: 3m               |
| Model: PC803BXC                   |                            |
| Manufacturer: Natural Sound       |                            |

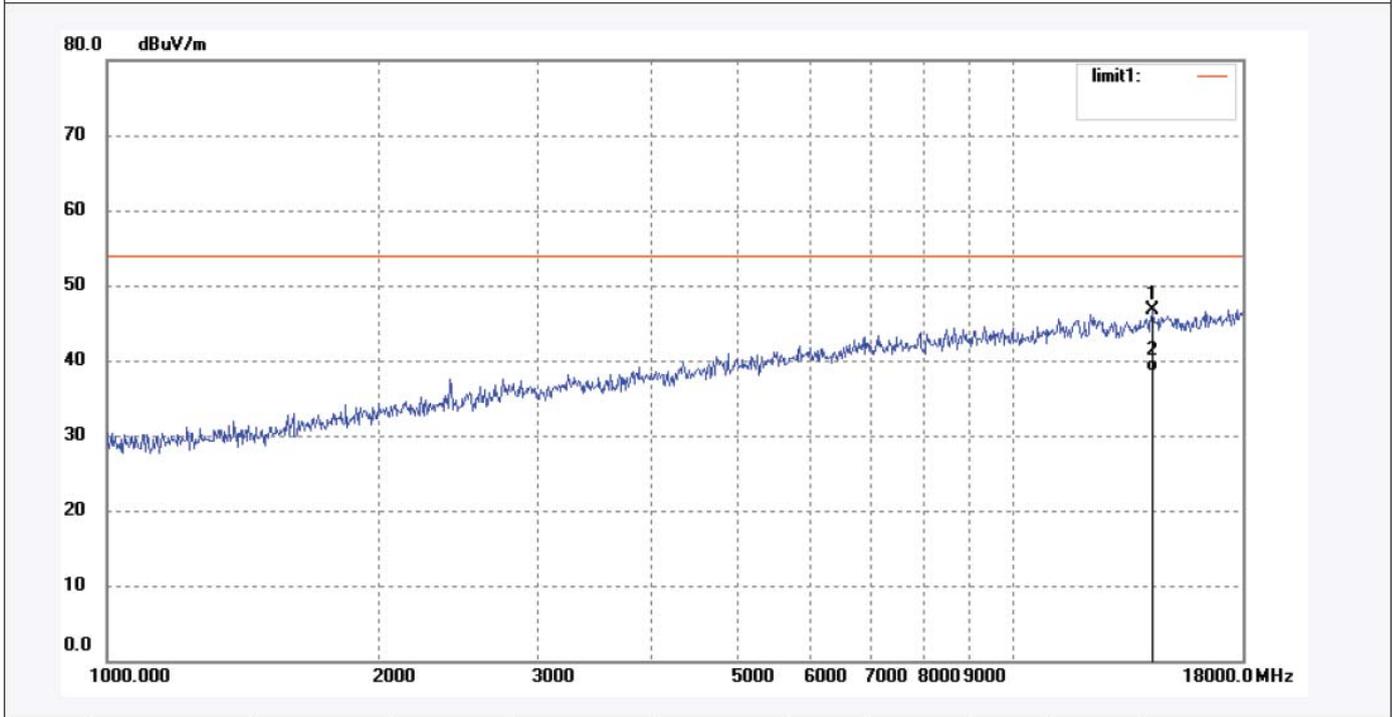
Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 15836.207   | 33.04            | 13.16       | 46.20           | 54.00          | -7.80       | peak     |             |               |        |
| 2   | 15836.207   | 25.45            | 13.16       | 38.61           | 54.00          | -15.39      | AVG      |             |               |        |

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: star2014 #1995           | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/50Hz |
| Test item: Radiation Test         | Date: 15/04/09/            |
| Temp.( C)/Hum.(%) 25 C / 55 %     | Time: 11/44/31             |
| EUT: MID                          | Engineer Signature: STAR   |
| Mode: TX Channel 1(802.11n)       | Distance: 3m               |
| Model: PC803BXC                   |                            |
| Manufacturer: Natural Sound       |                            |

Note: Report No.:ATE20150661

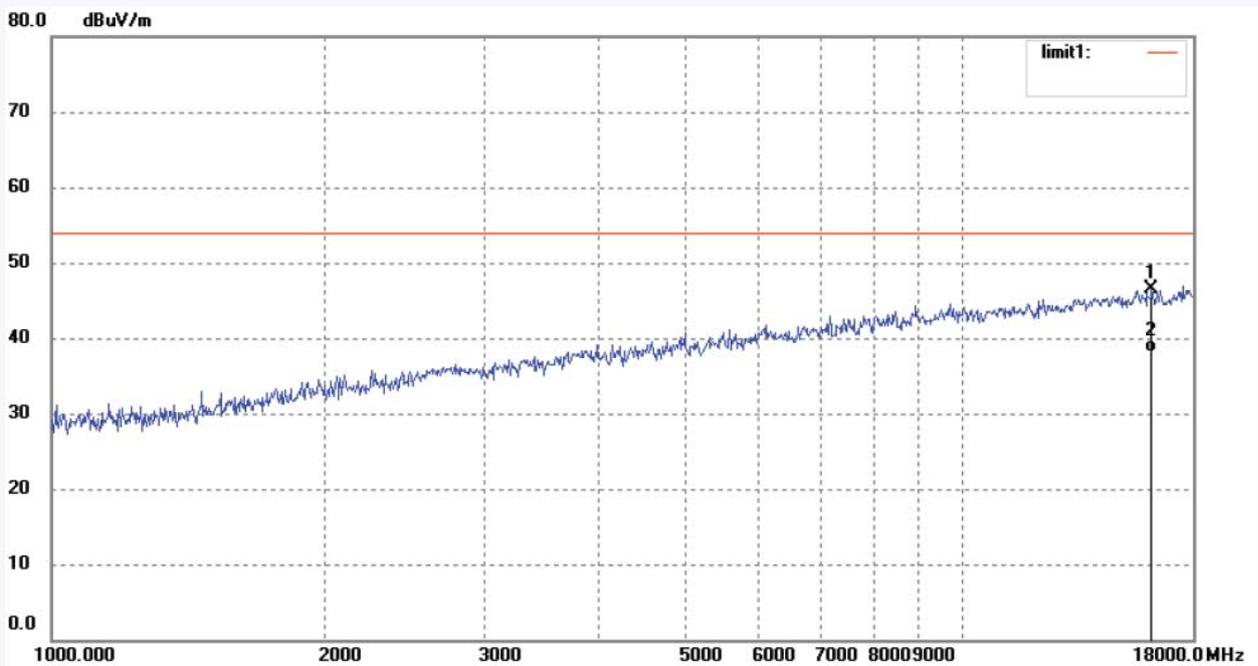


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 14302.334   | 33.33            | 13.40       | 46.73           | 54.00          | -7.27       | peak     |             |               |        |
| 2   | 14302.334   | 25.14            | 13.40       | 38.54           | 54.00          | -15.46      | AVG      |             |               |        |

Job No.: star2014 #1996  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 55 %  
 EUT: MID  
 Mode: TX Channel 1(802.11n)  
 Model: PC803BXC  
 Manufacturer: Natural Sound

Polarization: Horizontal  
 Power Source: AC 120V/50Hz  
 Date: 15/04/09/  
 Time: 11/48/19  
 Engineer Signature: STAR  
 Distance: 3m

Note: Report No.:ATE20150661

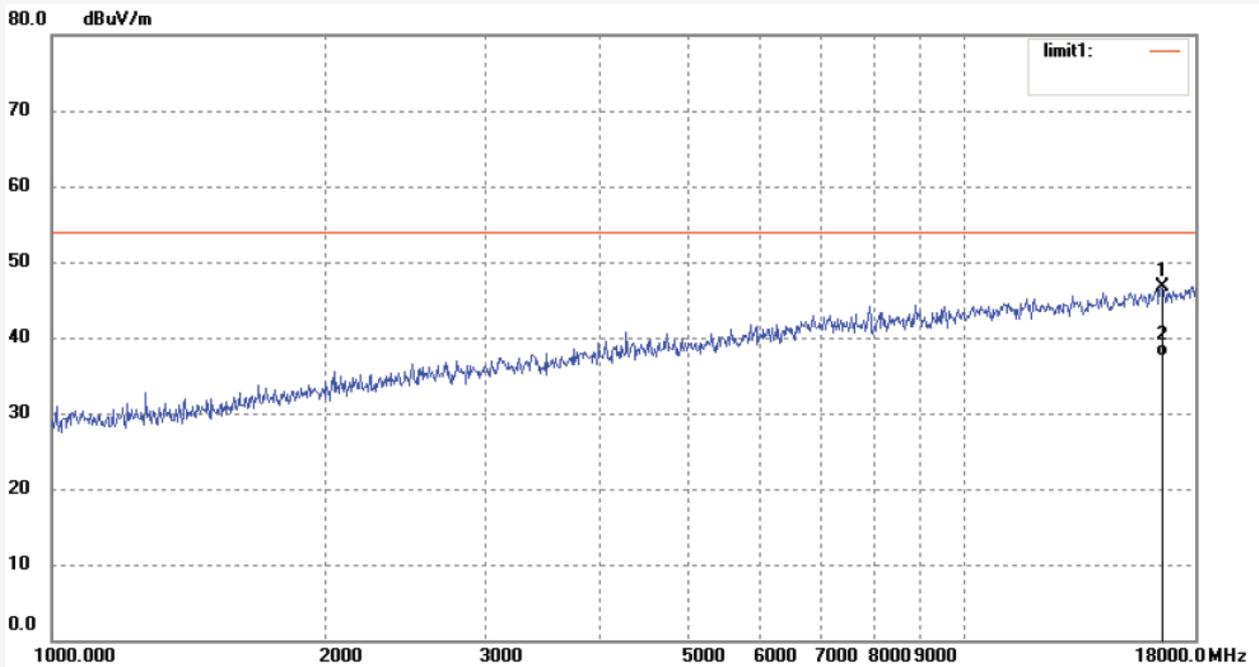


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 16209.295   | 33.01            | 13.41       | 46.42           | 54.00          | -7.58       | peak     |             |               |        |
| 2   | 16209.295   | 24.72            | 13.41       | 38.13           | 54.00          | -15.87      | AVG      |             |               |        |

Job No.: star2014 #1997  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 55 %  
 EUT: MID  
 Mode: TX Channel 6(802.11n)  
 Model: PC803BXC  
 Manufacturer: Natural Sound

Polarization: Horizontal  
 Power Source: AC 120V/50Hz  
 Date: 15/04/09/  
 Time: 11/52/18  
 Engineer Signature: STAR  
 Distance: 3m

Note: Report No.:ATE20150661

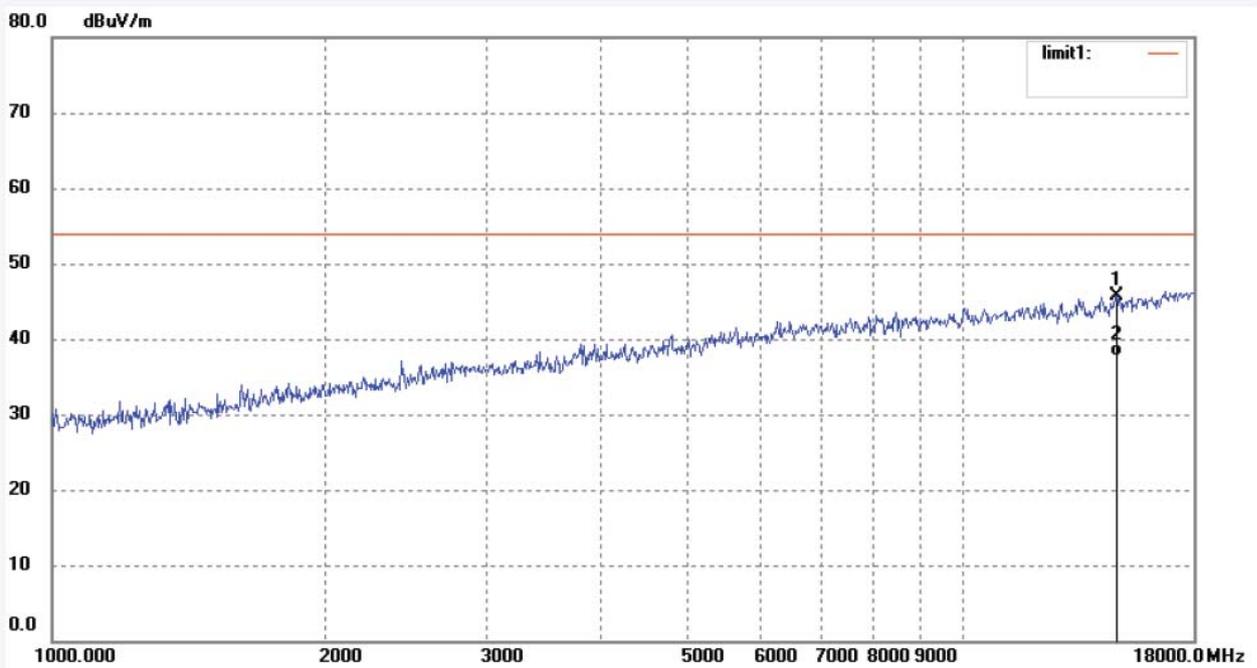


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 16591.174   | 32.70            | 13.95       | 46.65           | 54.00          | -7.35       | peak     |             |               |        |
| 2   | 16591.174   | 23.58            | 13.95       | 37.53           | 54.00          | -16.47      | AVG      |             |               |        |

Job No.: star2014 #1998  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 55 %  
 EUT: MID  
 Mode: TX Channel 6(802.11n)  
 Model: PC803BXC  
 Manufacturer: Natural Sound

Polarization: Vertical  
 Power Source: AC 120V/50Hz  
 Date: 15/04/09/  
 Time: 11/55/24  
 Engineer Signature: STAR  
 Distance: 3m

Note: Report No.:ATE20150661

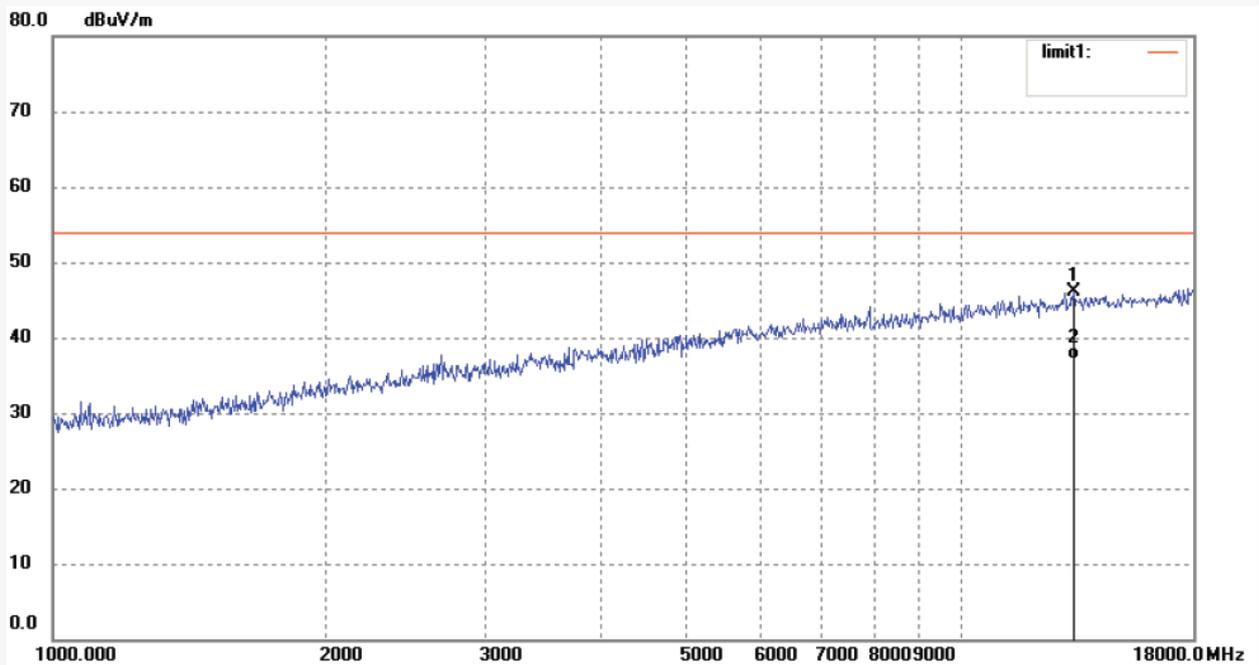


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 14810.727   | 31.70            | 14.09       | 45.79           | 54.00          | -8.21       | peak     |             |               |        |
| 2   | 14810.727   | 23.64            | 14.09       | 37.73           | 54.00          | -16.27      | AVG      |             |               |        |

Job No.: star2014 #1999  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 55 %  
 EUT: MID  
 Mode: TX Channel 11(802.11n)  
 Model: PC803BXC  
 Manufacturer: Natural Sound

Polarization: Vertical  
 Power Source: AC 120V/50Hz  
 Date: 15/04/09/  
 Time: 11/59/14  
 Engineer Signature: STAR  
 Distance: 3m

Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 13298.538   | 35.83            | 10.28       | 46.11           | 54.00          | -7.89       | peak     |             |               |        |
| 2   | 13298.538   | 26.78            | 10.28       | 37.06           | 54.00          | -16.94      | AVG      |             |               |        |



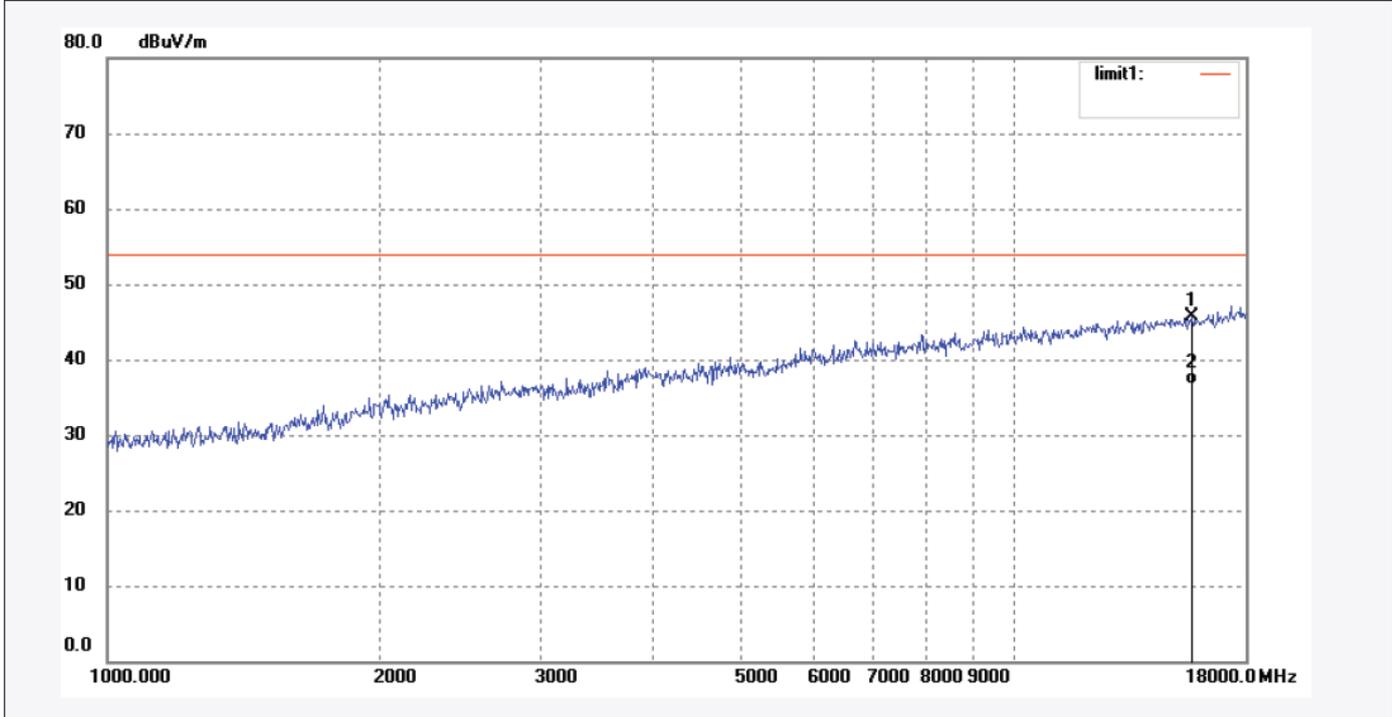
### ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: star2014 #2000           | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/50Hz |
| Test item: Radiation Test         | Date: 15/04/09/            |
| Temp.( C)/Hum.(%) 25 C / 55 %     | Time: 12/03/14             |
| EUT: MID                          | Engineer Signature: STAR   |
| Mode: TX Channel 11(802.11n)      | Distance: 3m               |
| Model: PC803BXC                   |                            |
| Manufacturer: Natural Sound       |                            |

Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 15698.523   | 32.49            | 13.14       | 45.63           | 54.00          | -8.37       | peak     |             |               |        |
| 2   | 15698.523   | 23.59            | 13.14       | 36.73           | 54.00          | -17.27      | AVG      |             |               |        |

Job No.: star2014 #2001

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: MID

Mode: TX Channel 3(802.11n)40MHz

Model: PC803BXC

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/50Hz

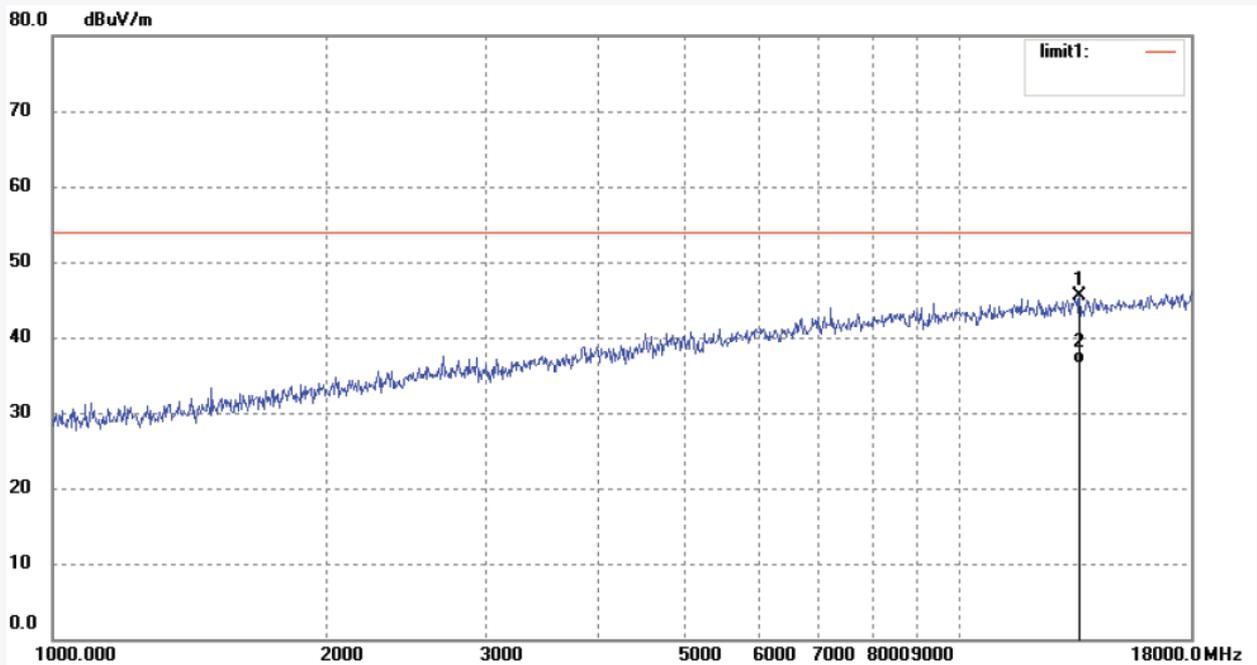
Date: 15/04/09/

Time: 12/06/10

Engineer Signature: STAR

Distance: 3m

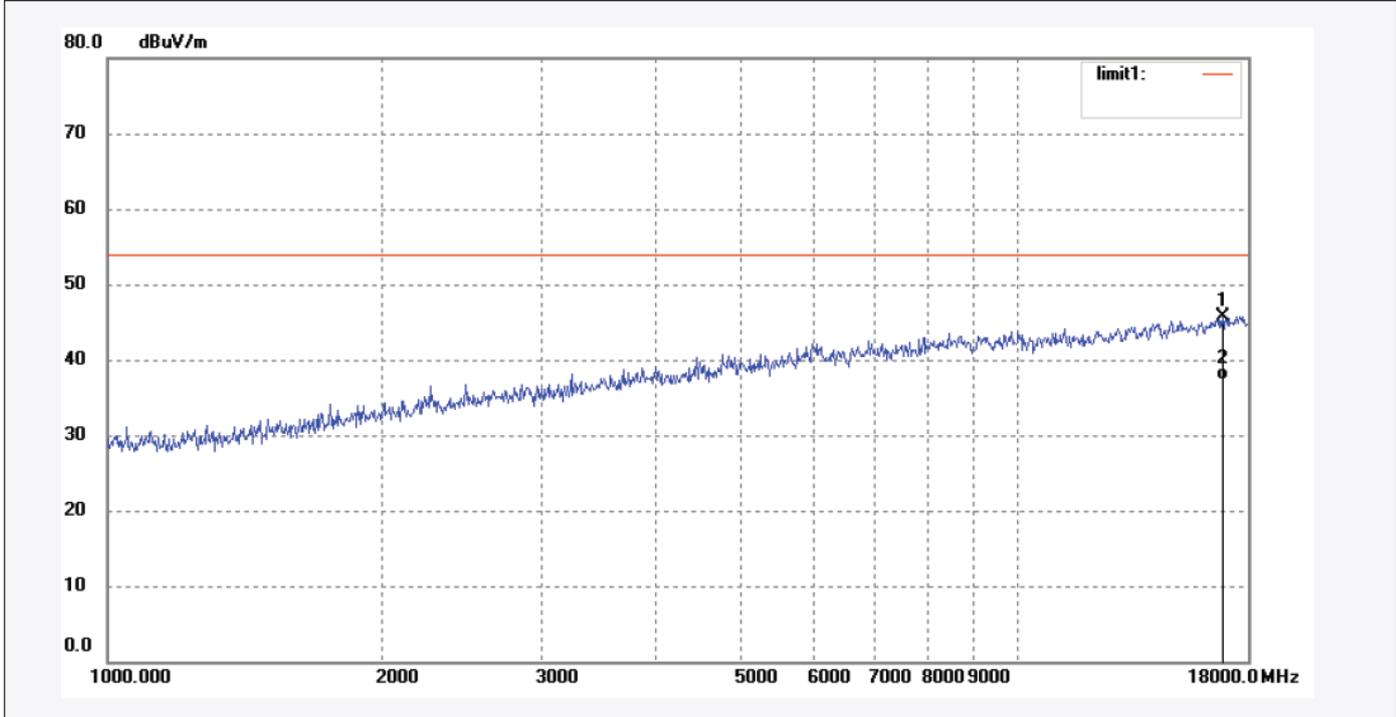
Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 13572.278   | 34.81            | 10.75       | 45.56           | 54.00          | -8.44       | peak     |             |               |        |
| 2   | 13572.278   | 25.78            | 10.75       | 36.53           | 54.00          | -17.47      | AVG      |             |               |        |

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: star2014 #2002           | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/50Hz |
| Test item: Radiation Test         | Date: 15/04/09/            |
| Temp.( C)/Hum.(%) 25 C / 55 %     | Time: 12/10/00             |
| EUT: MID                          | Engineer Signature: STAR   |
| Mode: TX Channel 3(802.11n)40MHz  | Distance: 3m               |
| Model: PC803BXC                   |                            |
| Manufacturer: Natural Sound       |                            |

Note: Report No.:ATE20150661

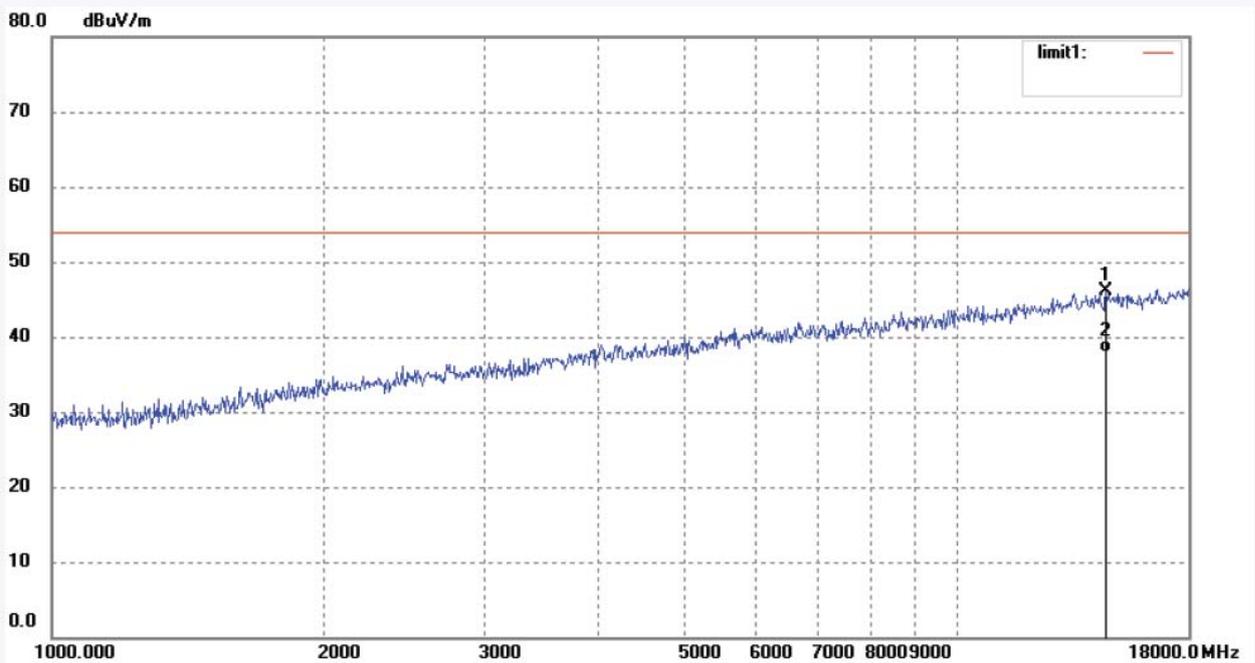


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 16883.475   | 30.76            | 14.85       | 45.61           | 54.00          | -8.39       | peak     |             |               |        |
| 2   | 16883.475   | 22.45            | 14.85       | 37.30           | 54.00          | -16.70      | AVG      |             |               |        |

Job No.: star2014 #2003  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: MID  
Mode: TX Channel 6(802.11n)40MHz  
Model: PC803BXC  
Manufacturer: Natural Sound

Polarization: Vertical  
Power Source: AC 120V/50Hz  
Date: 15/04/09/  
Time: 12/14/53  
Engineer Signature: STAR  
Distance: 3m

Note: Report No.:ATE20150661

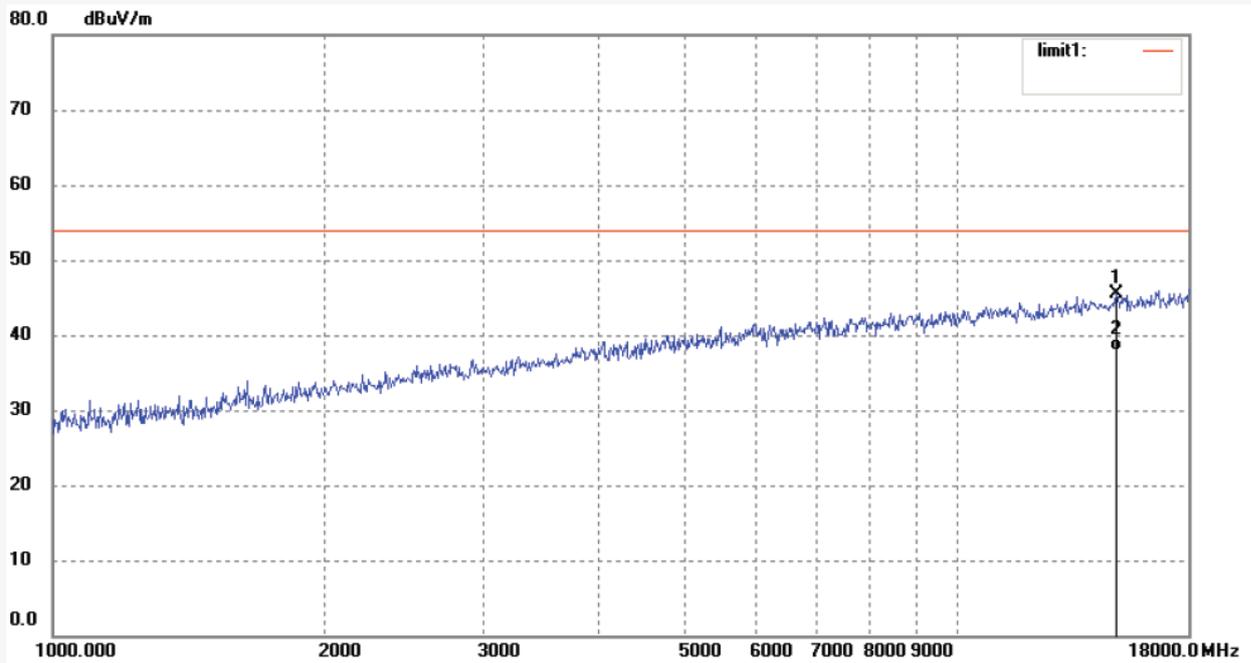


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 14596.737   | 31.63            | 14.42       | 46.05           | 54.00          | -7.95       | peak     |             |               |        |
| 2   | 14596.737   | 23.45            | 14.42       | 37.87           | 54.00          | -16.13      | AVG      |             |               |        |

Job No.: star2014 #2004  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 55 %  
 EUT: MID  
 Mode: TX Channel 6(802.11n)40MHz  
 Model: PC803BXC  
 Manufacturer: Natural Sound

Polarization: Horizontal  
 Power Source: AC 120V/50Hz  
 Date: 15/04/09/  
 Time: 12/18/36  
 Engineer Signature: STAR  
 Distance: 3m

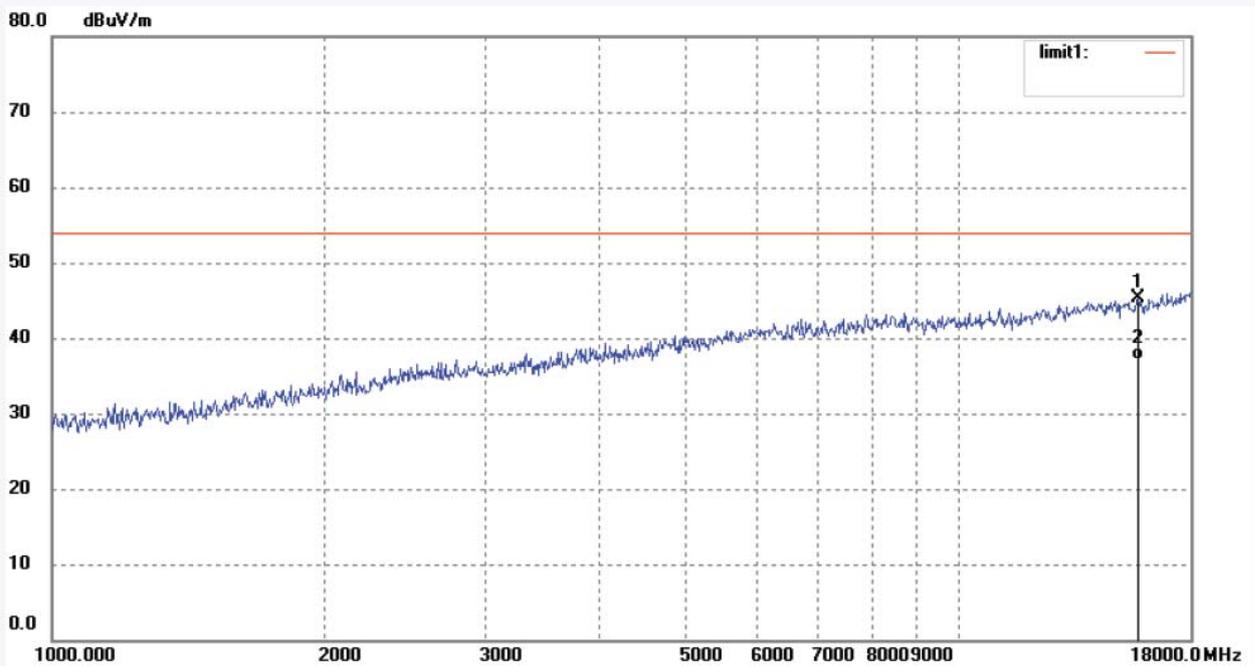
Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 14984.176   | 31.72            | 13.83       | 45.55           | 54.00          | -8.45       | peak     |             |               |        |
| 2   | 14984.176   | 24.05            | 13.83       | 37.88           | 54.00          | -16.12      | AVG      |             |               |        |

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: star2014 #2005           | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/50Hz |
| Test item: Radiation Test         | Date: 15/04/09/            |
| Temp.( C)/Hum.(%) 25 C / 55 %     | Time: 12/22/32             |
| EUT: MID                          | Engineer Signature: STAR   |
| Mode: TX Channel 9(802.11n)40MHz  | Distance: 3m               |
| Model: PC803BXC                   |                            |
| Manufacturer: Natural Sound       |                            |

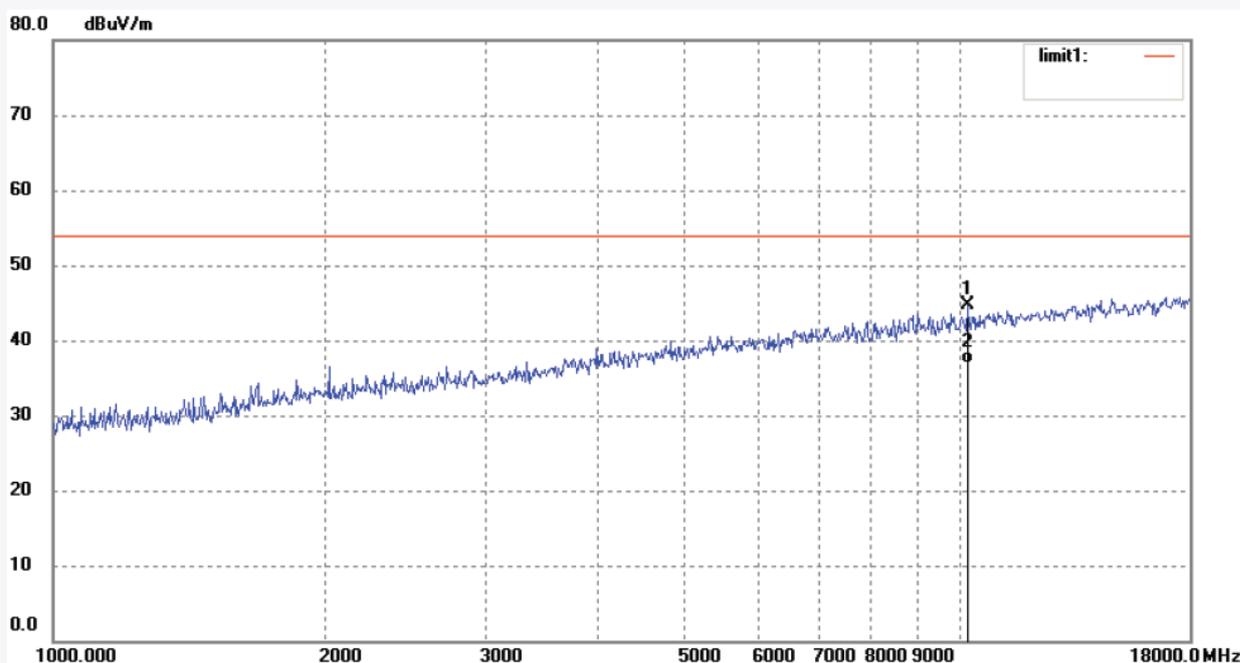
Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 15744.284   | 32.16            | 13.15       | 45.31           | 54.00          | -8.69       | peak     |             |               |        |
| 2   | 15744.284   | 23.93            | 13.15       | 37.08           | 54.00          | -16.92      | AVG      |             |               |        |

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: star2014 #2006           | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/50Hz |
| Test item: Radiation Test         | Date: 15/04/09/            |
| Temp.( C)/Hum.(%) 25 C / 55 %     | Time: 12/26/07             |
| EUT: MID                          | Engineer Signature: STAR   |
| Mode: TX Channel 9(802.11n)40MHz  | Distance: 3m               |
| Model: PC803BXC                   |                            |
| Manufacturer: Natural Sound       |                            |

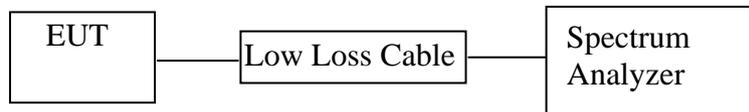
Note: Report No.:ATE20150661



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 10233.707   | 37.82            | 6.84        | 44.66           | 54.00          | -9.34       | peak     |             |               |        |
| 2   | 10233.707   | 30.10            | 6.84        | 36.94           | 54.00          | -17.06      | AVG      |             |               |        |

## 10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

### 10.1. Block Diagram of Test Setup



### 10.2. The Requirement For Section 15.247(d)

Section 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 10.3. EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 10.4. Operating Condition of EUT

10.4.1. Setup the EUT and simulator as shown as Section 10.1.

10.4.2. Turn on the power of all equipment.

10.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

## 10.5. Test Procedure

10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz (below 1GHz).

10.5.3. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz (above 1GHz).

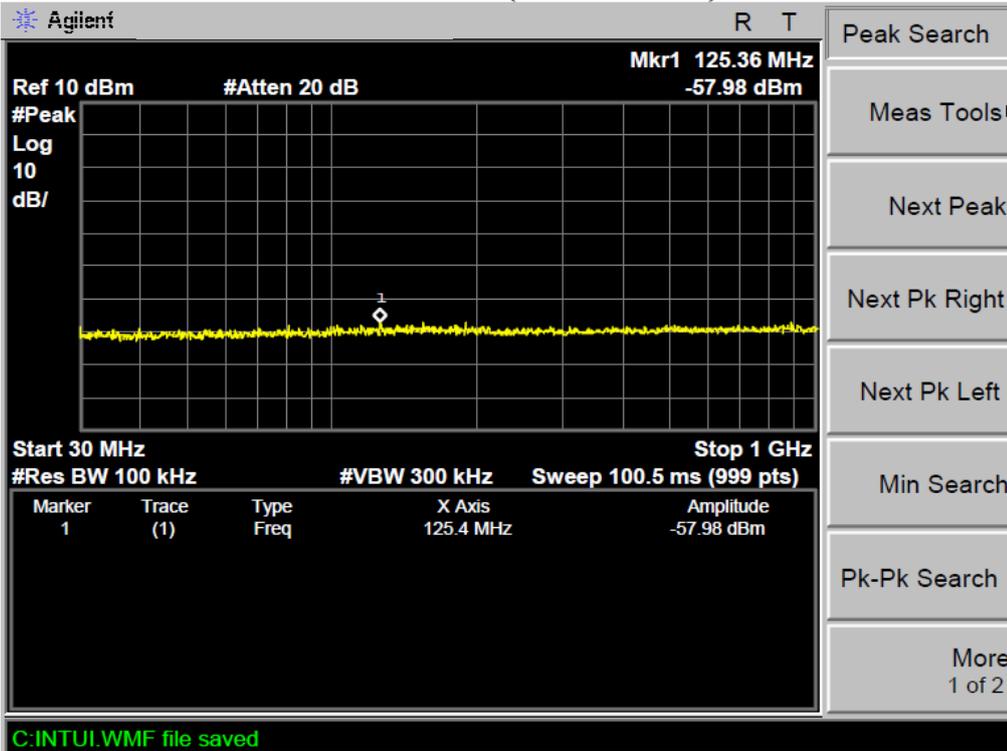
10.5.4. The Conducted Spurious Emission was measured and recorded.

## 10.6. Test Result

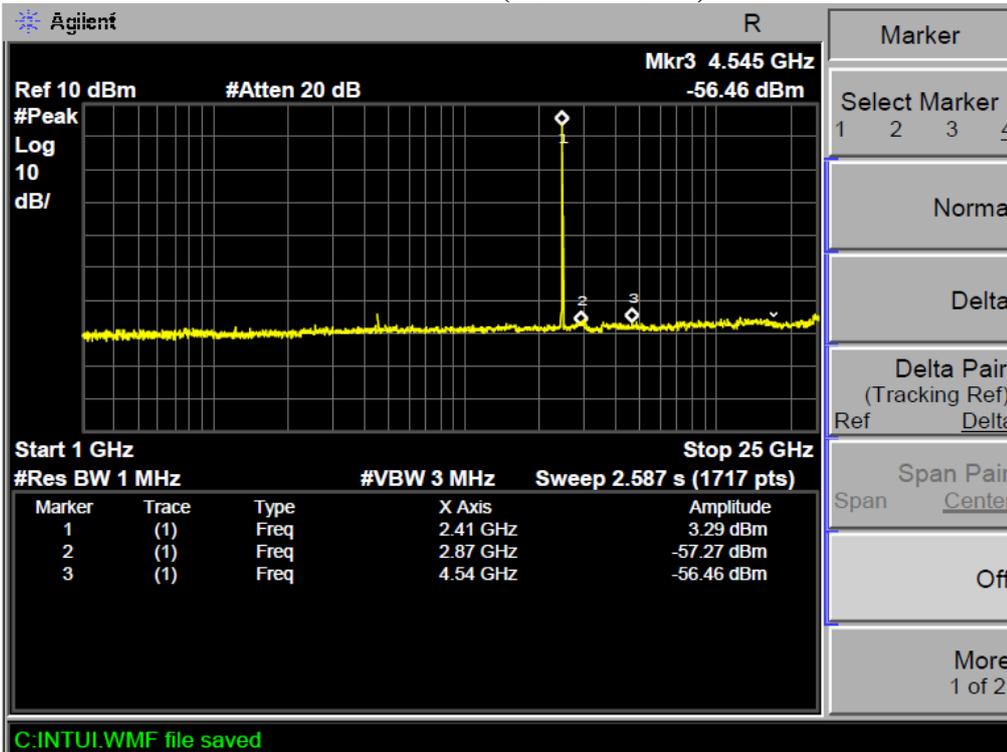
**Pass.**

The spectrum analyzer plots are attached as below.

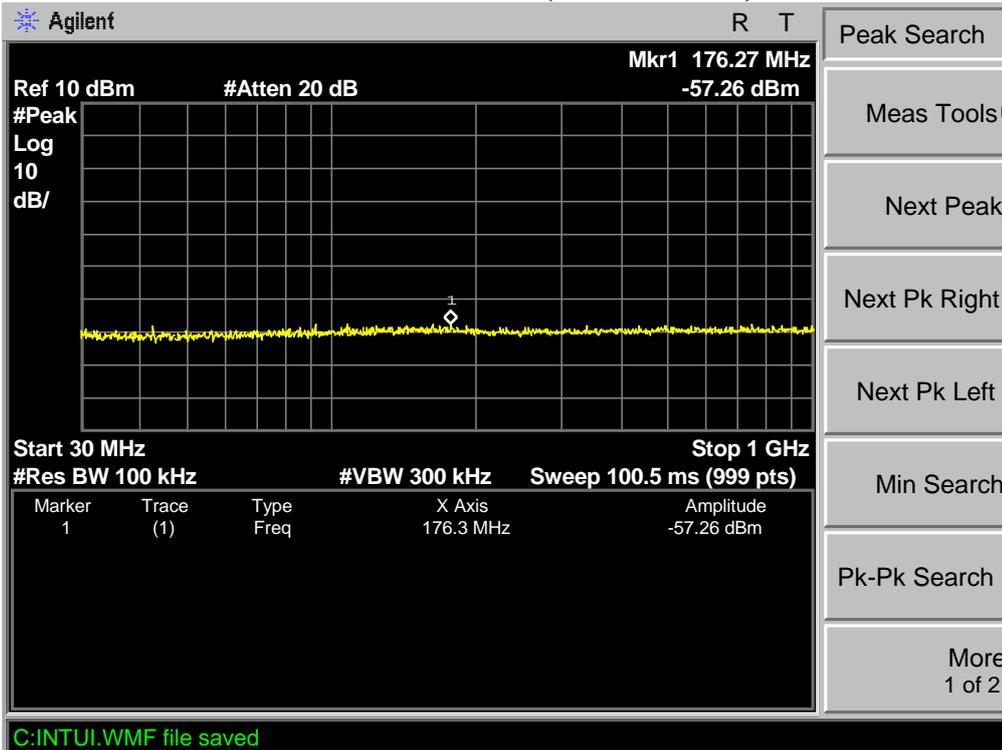
## TX 802.11b Channel Low 2412MHz (30MHz-1GHz)



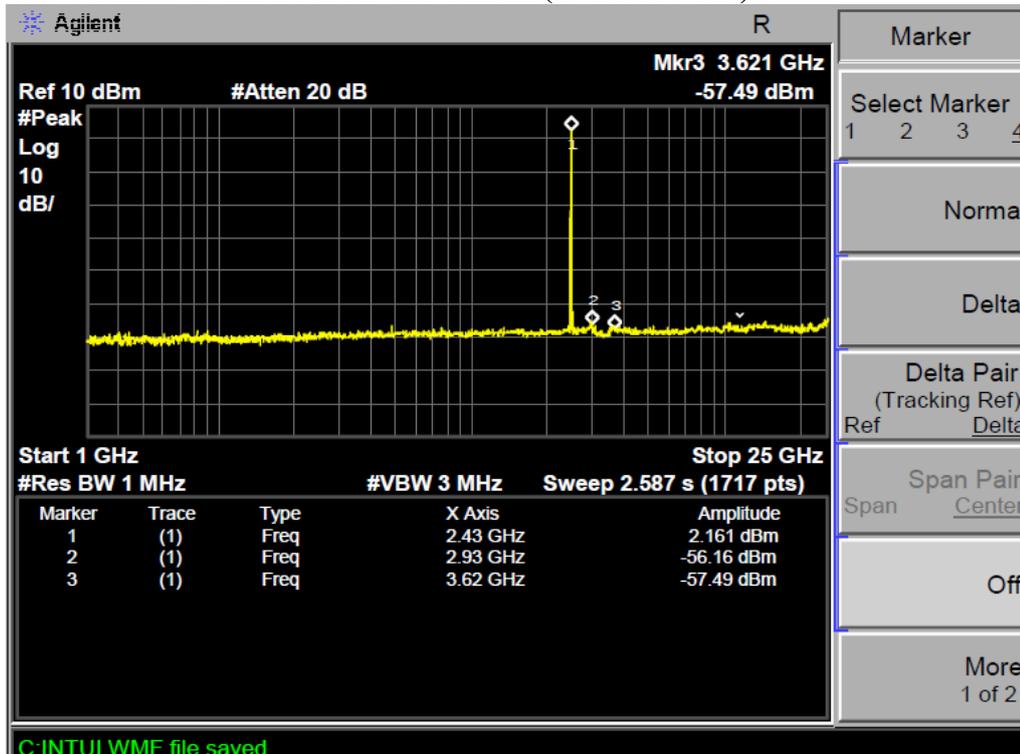
## TX 802.11b Channel Low 2412MHz (1GHz-25GHz)



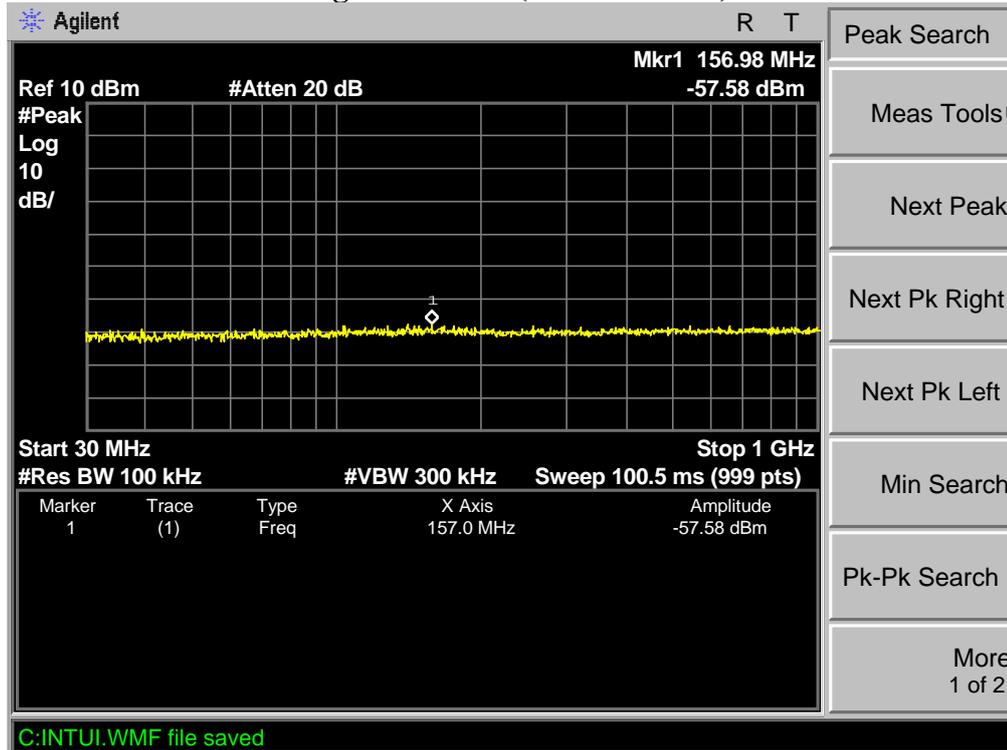
### TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



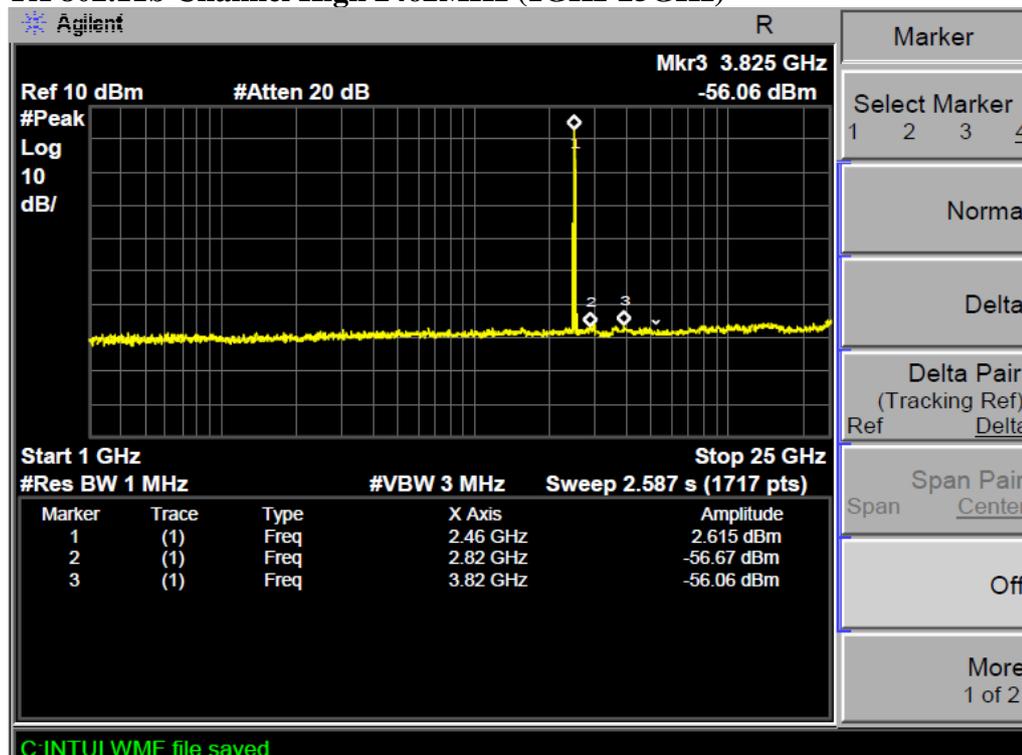
### TX 802.11b Channel Middle 2437MHz (1GHz-25GHz)



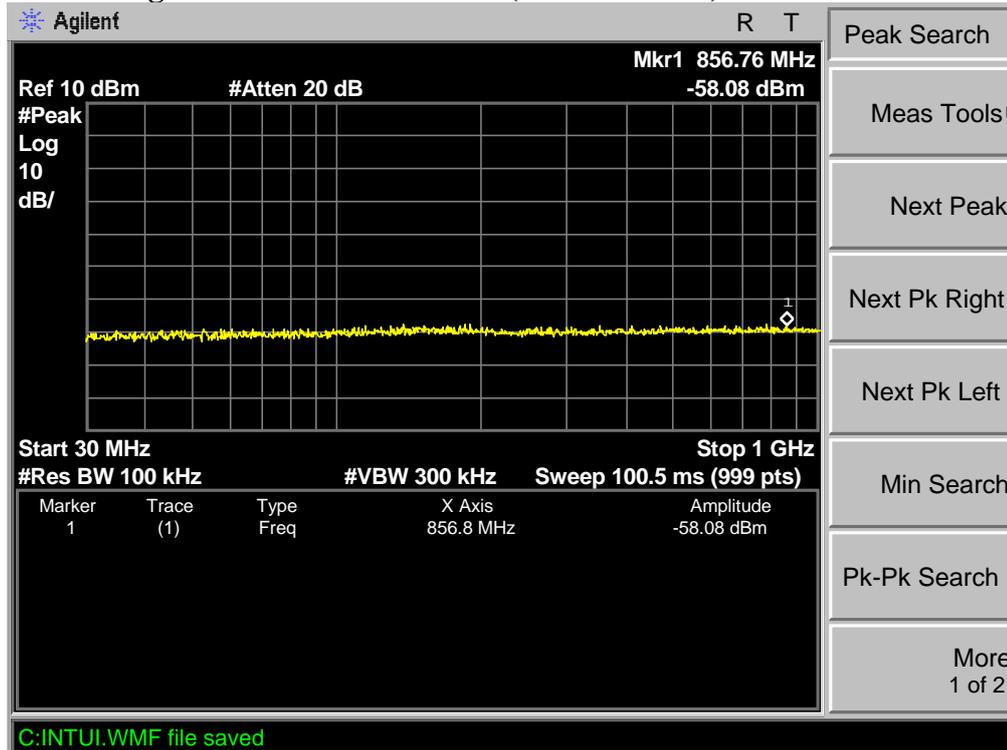
### TX 802.11b Channel High 2462MHz (30MHz-1GHz)



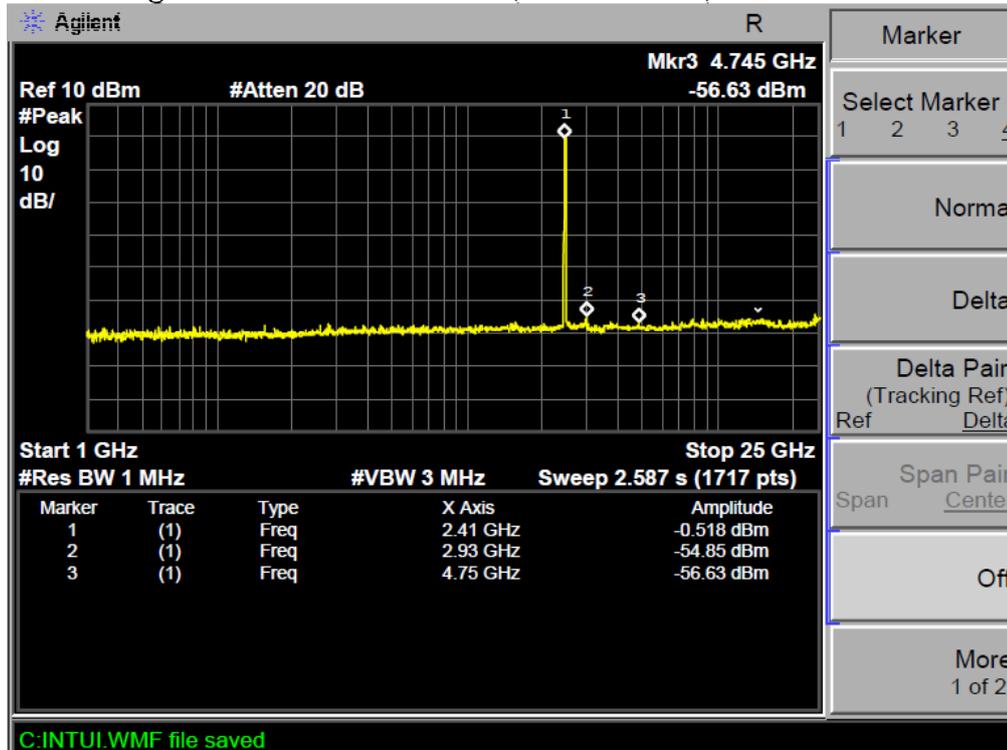
### TX 802.11b Channel High 2462MHz (1GHz-25GHz)



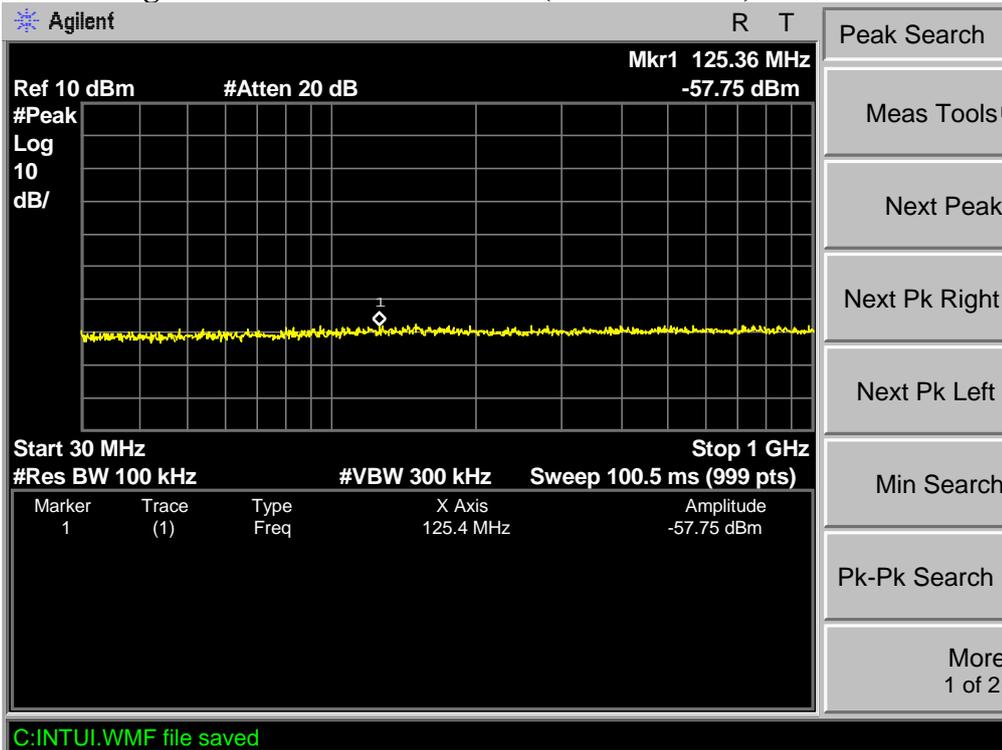
### TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



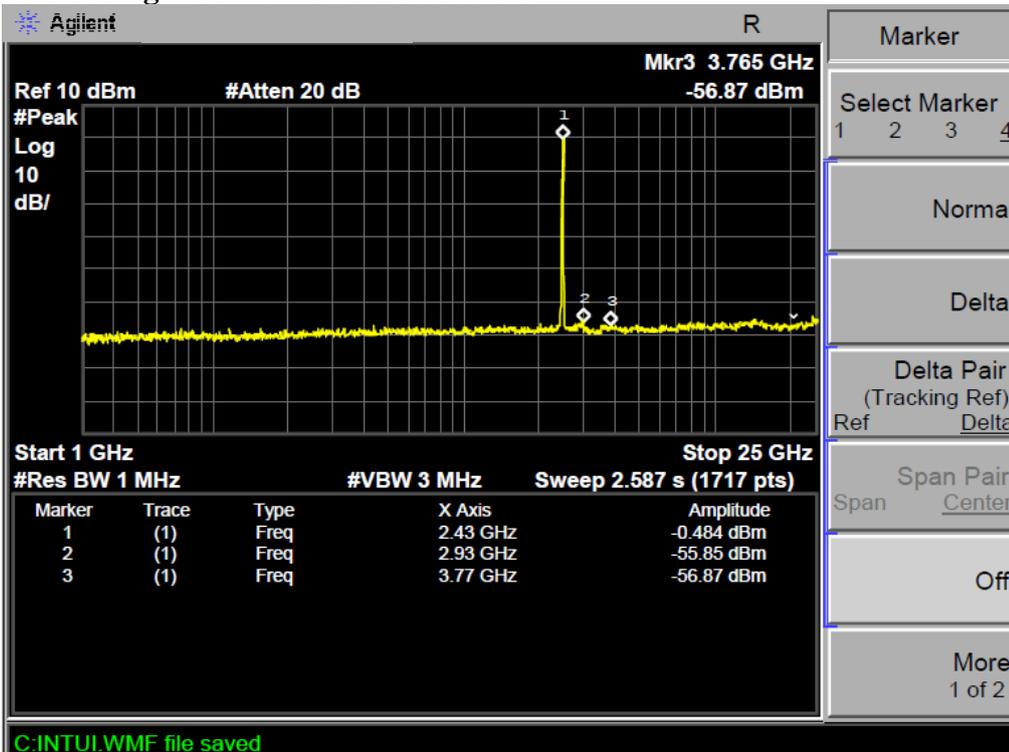
### TX 802.11g Channel Low 2412MHz (1GHz-25GHz)



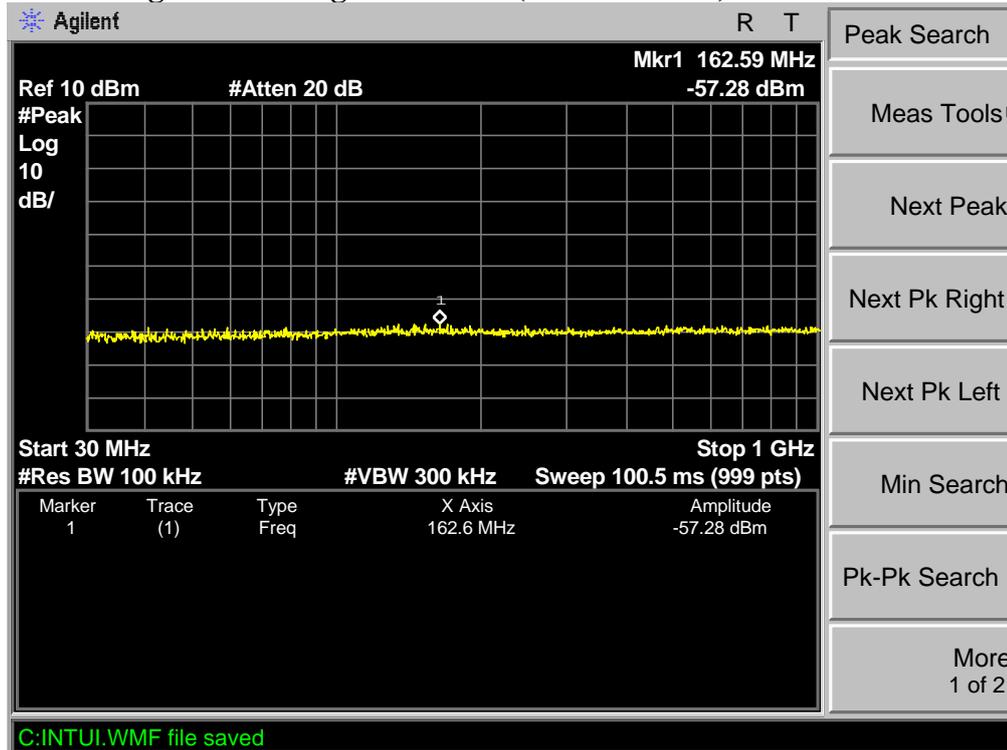
### TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



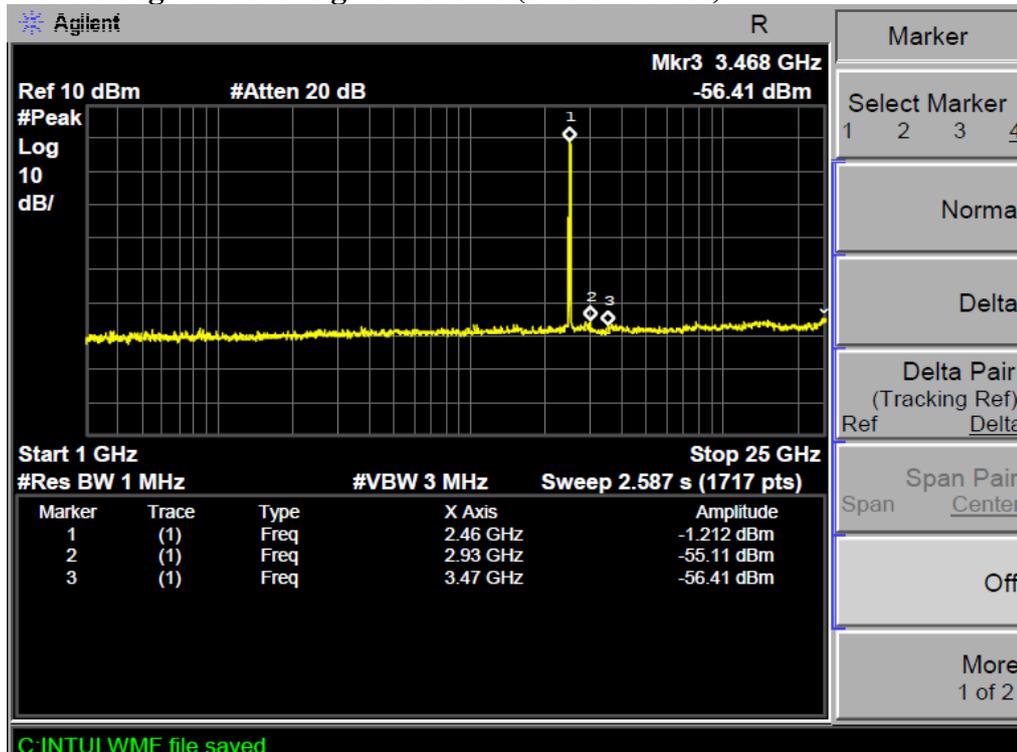
### TX 802.11g Channel Middle 2437MHz



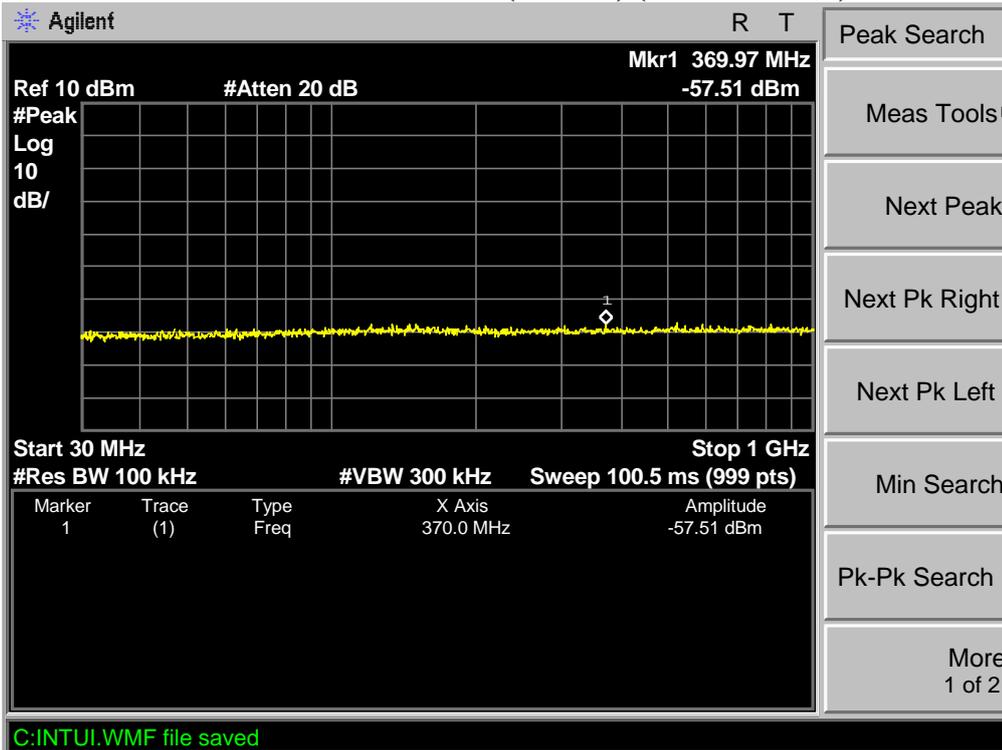
### TX 802.11g Channel High 2462MHz (30MHz-1GHz)



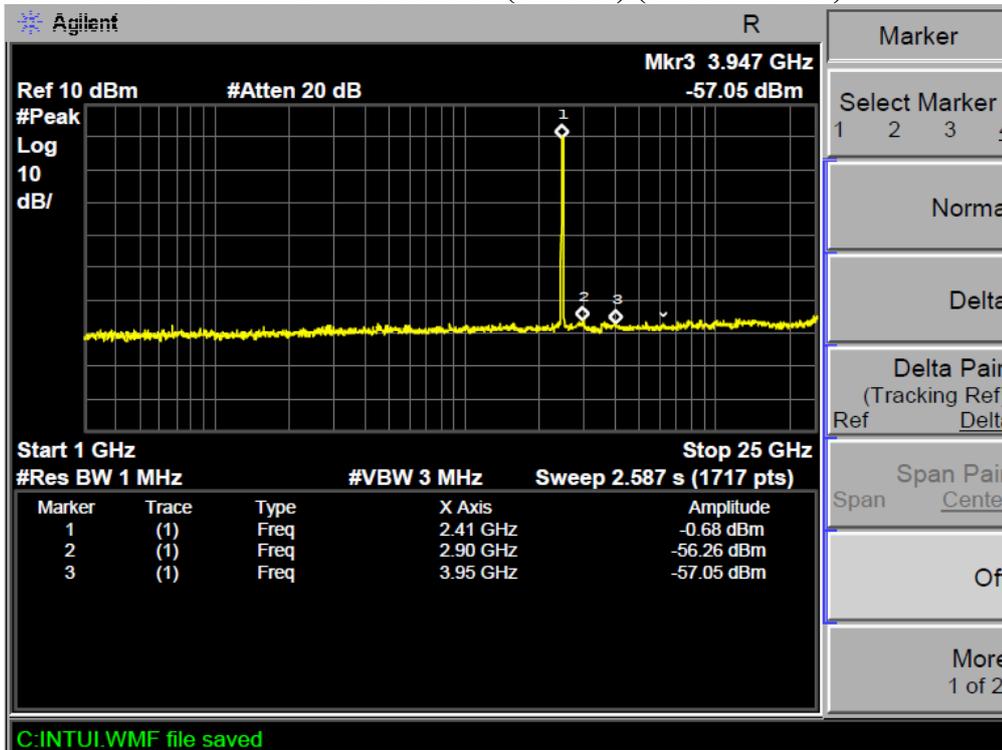
### TX 802.11g Channel High 2462MHz (1GHz-25GHz)



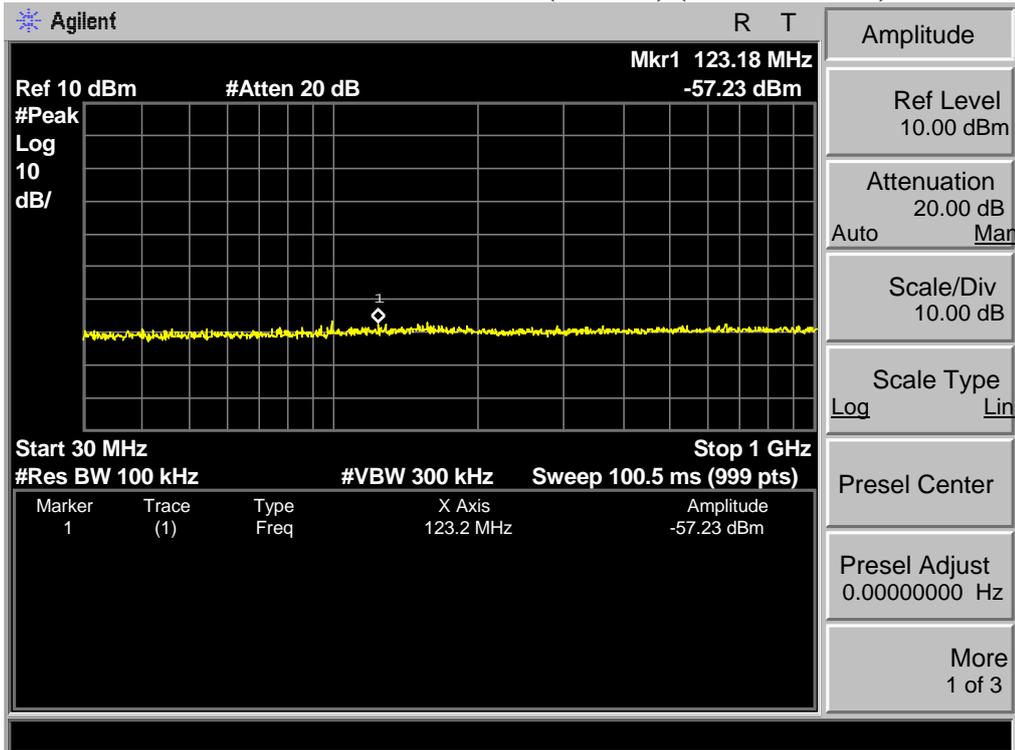
**TX 802.11n Channel Low 2412MHz (20MHz) (30MHz-1GHz)**



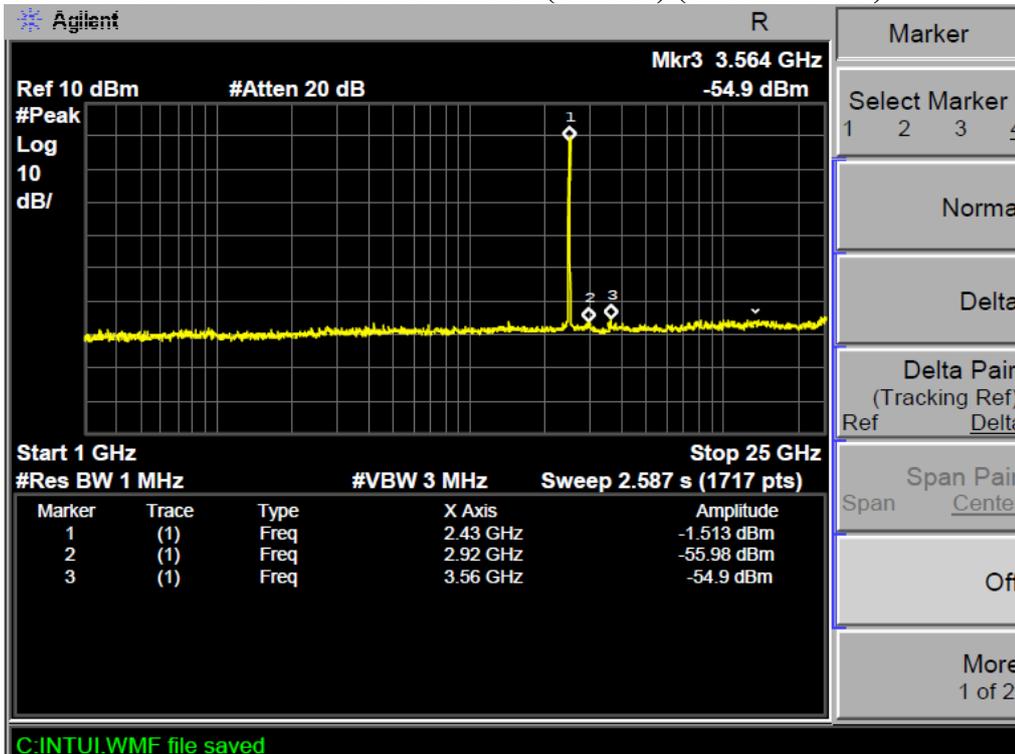
**TX 802.11n Channel Low 2412MHz (20MHz) (1GHz-25GHz)**



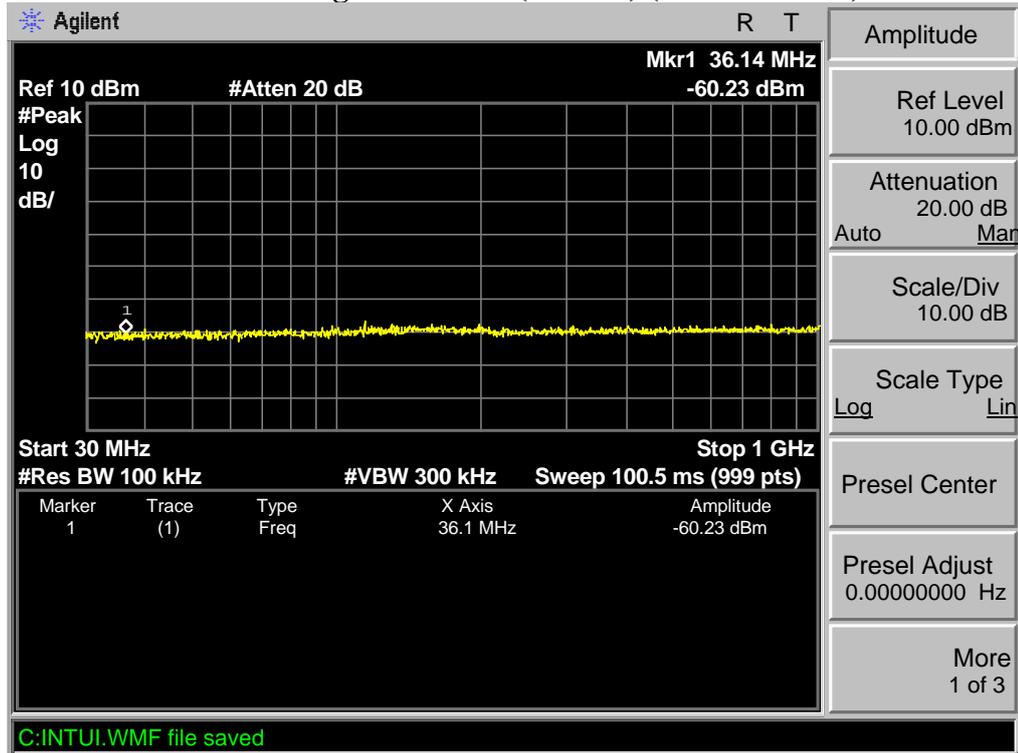
**TX 802.11n Channel Middle 2437MHz (20MHz) (30MHz-1GHz)**



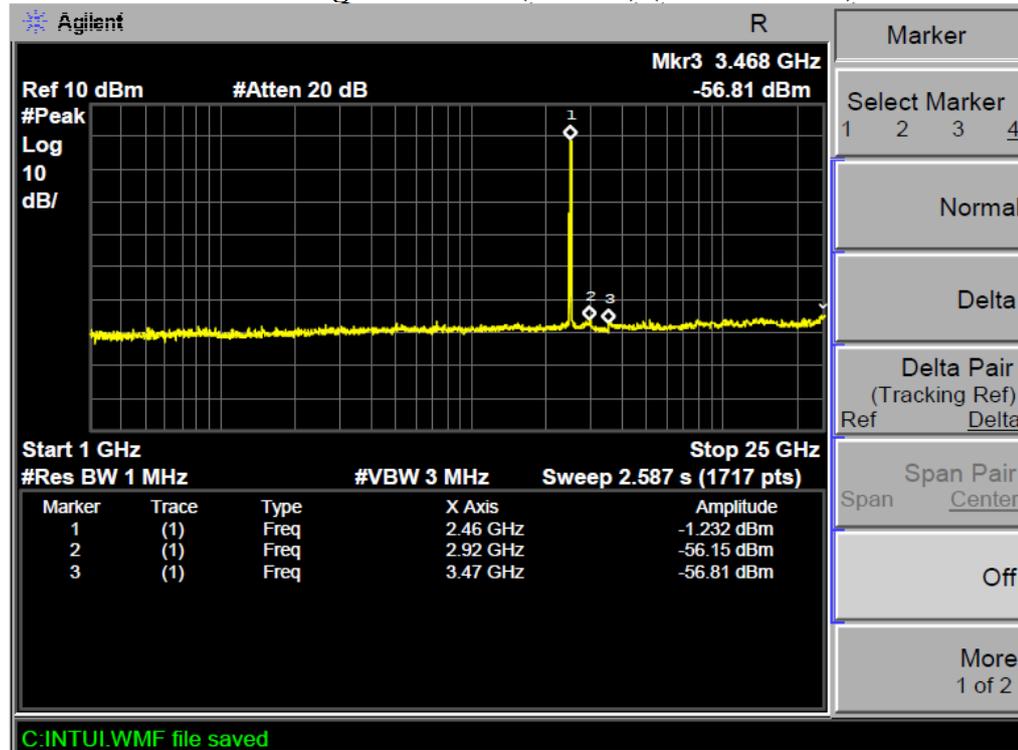
**TX 802.11n Channel Middle 2437MHz (20MHz) (1GHz-25GHz)**



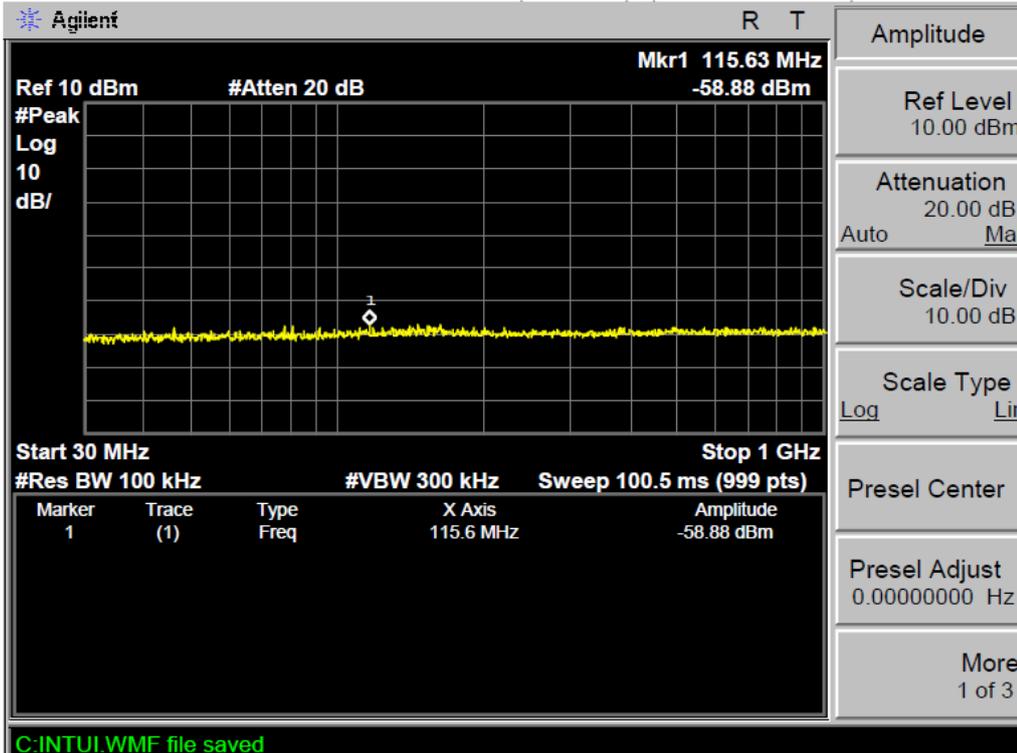
### TX 802.11n Channel High 2462MHz (20MHz) (30MHz-1GHz)



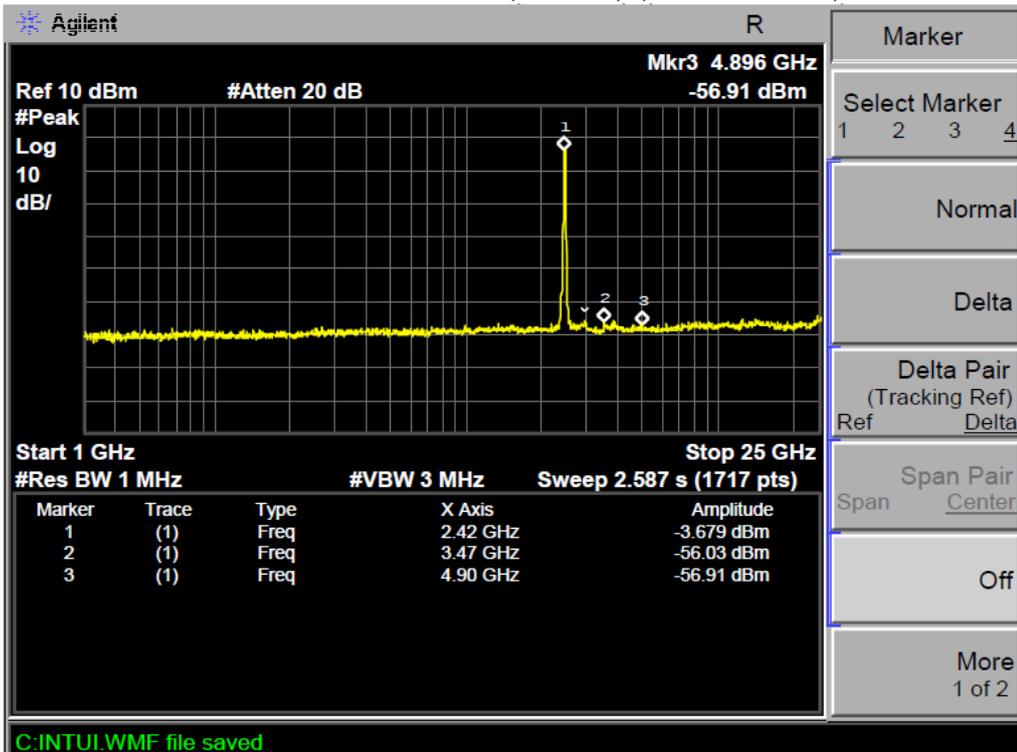
### TX 802.11n Channel High 2462MHz (20MHz) (1GHz-25GHz)



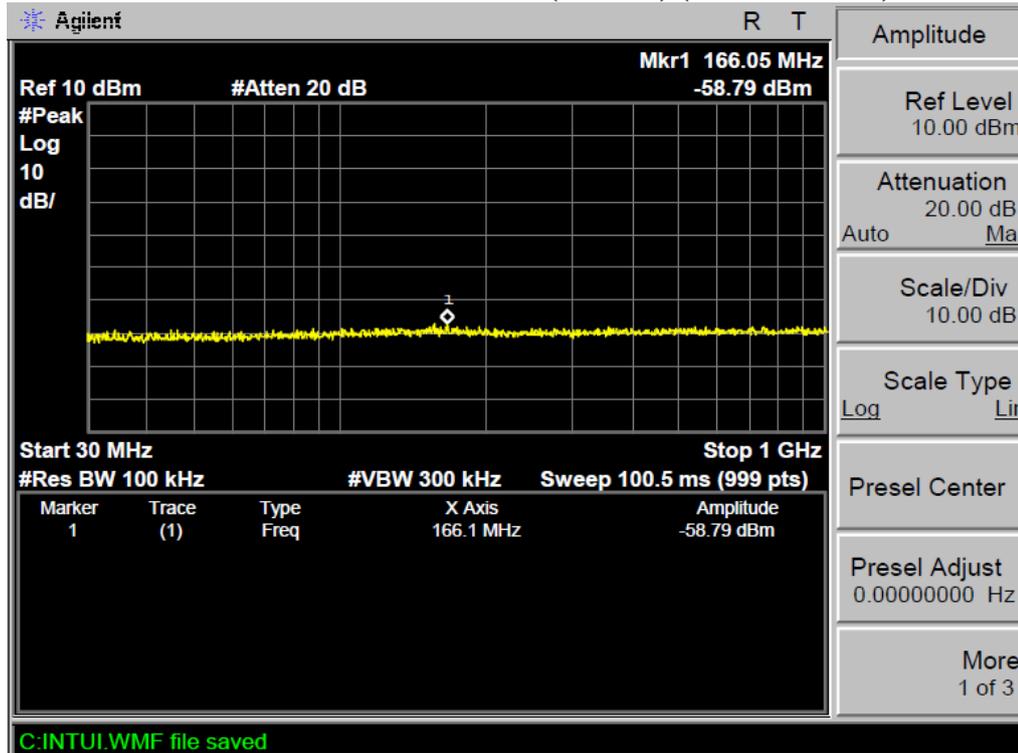
TX 802.11n Channel Low 2422MHz (40MHz) (30MHz-1GHz)



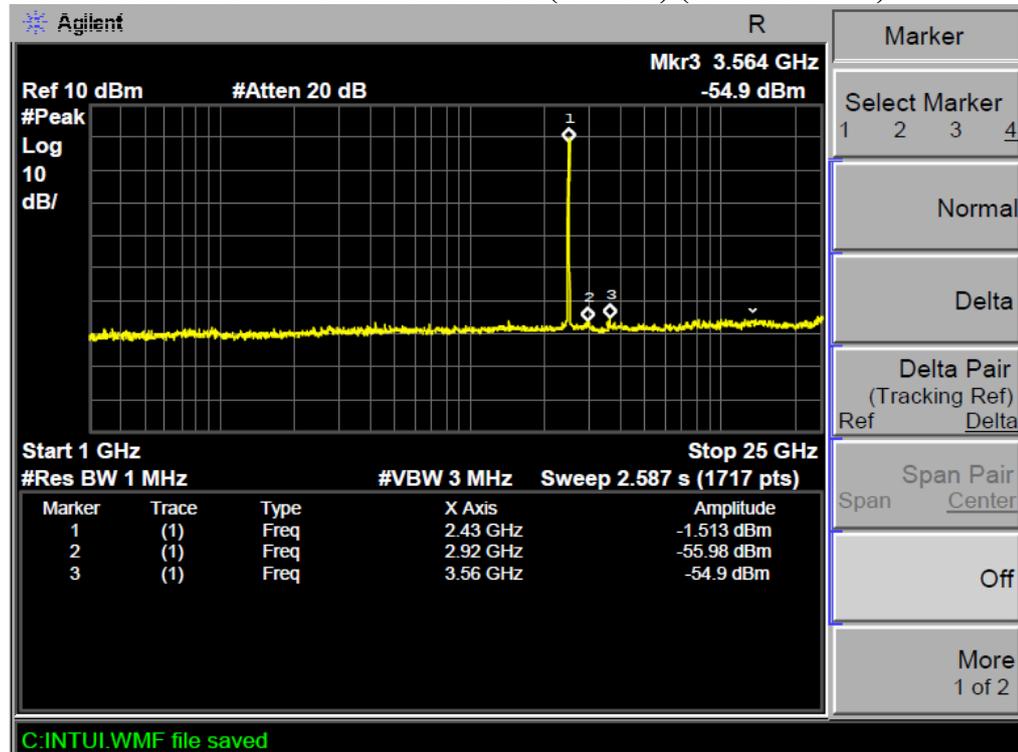
TX 802.11n Channel Low 2422MHz (40MHz) (1GHz-25GHz)



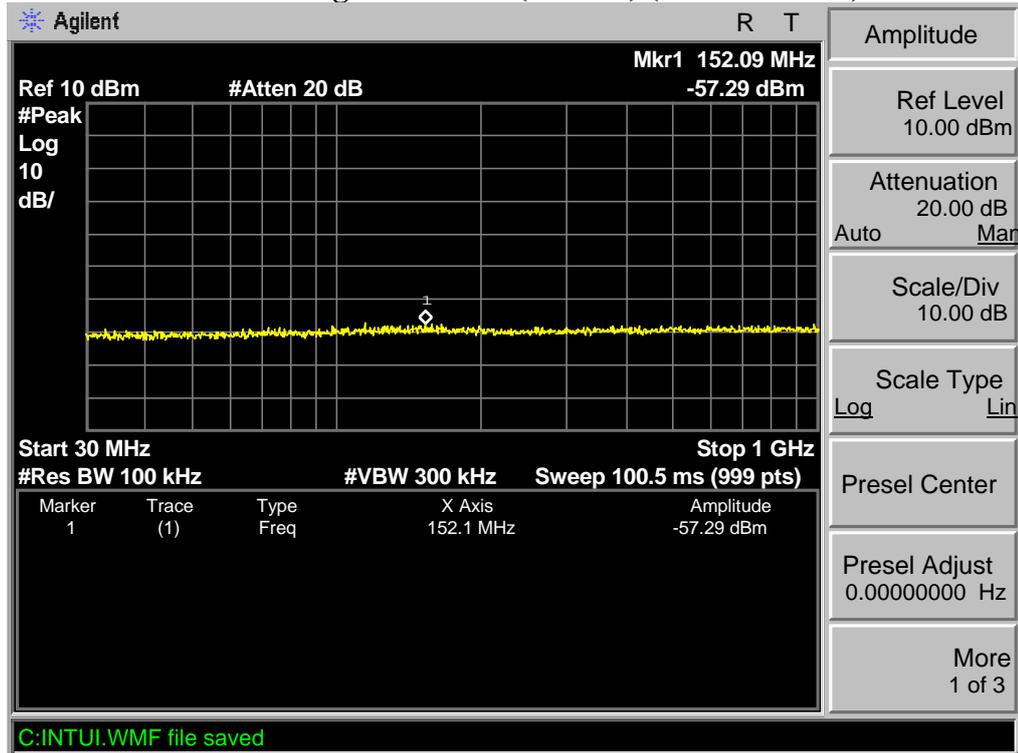
**TX 802.11n Channel Middle 2437MHz (40MHz) (30MHz-1GHz)**



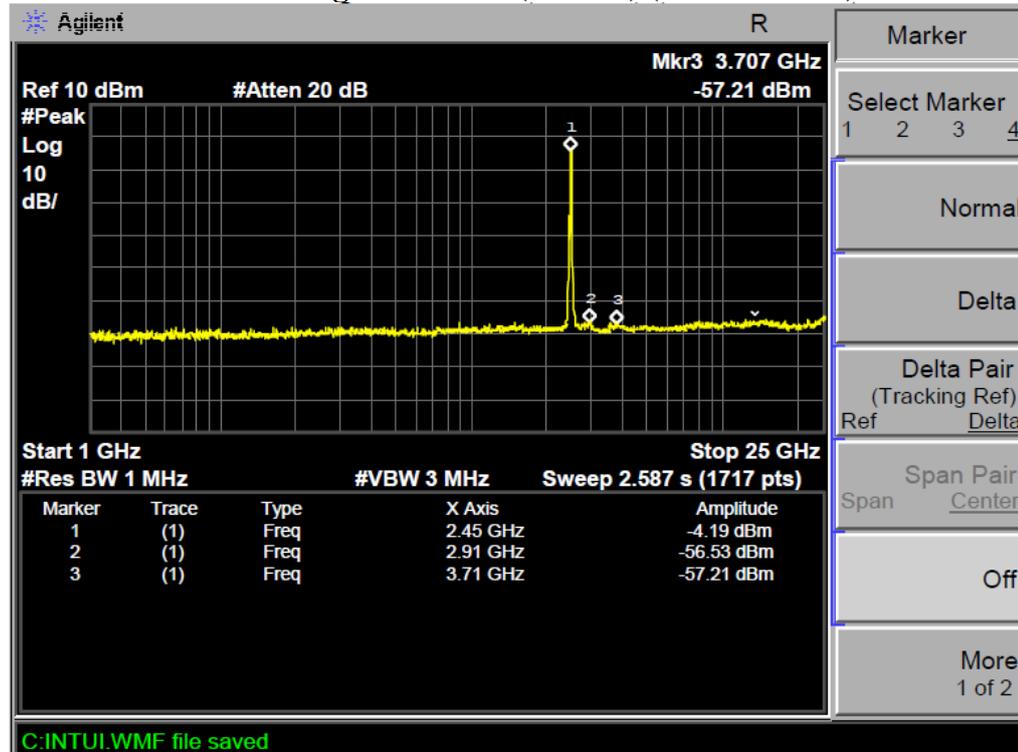
**TX 802.11n Channel Middle 2437MHz (40MHz) (1GHz-25GHz)**



**TX 802.11n Channel High 2452MHz (40MHz) (30MHz-1GHz)**



**TX 802.11n Channel High 2452MHz (40MHz) (1GHz-25GHz)**



# 11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

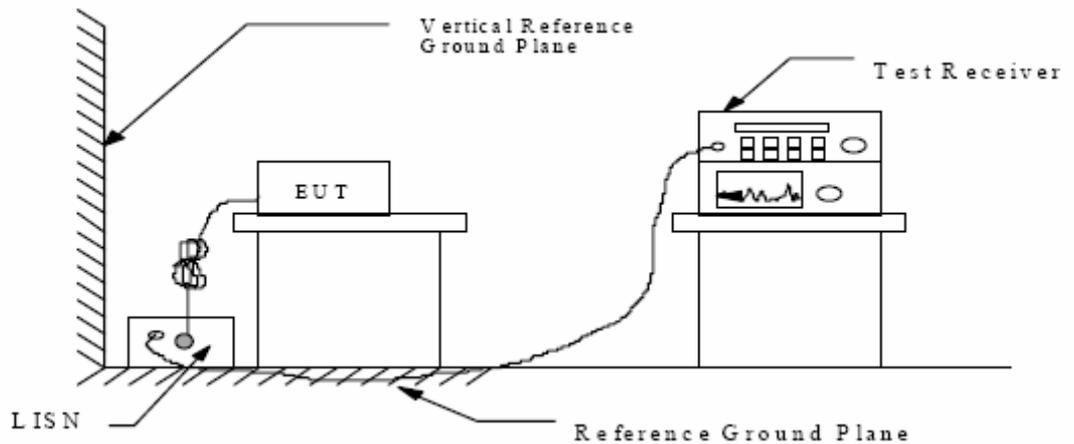
## 15 SECTION 15.207(A)

### 11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



### 11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

| Frequency (MHz) | Limit dB(μV)     |               |
|-----------------|------------------|---------------|
|                 | Quasi-peak Level | Average Level |
| 0.15 - 0.50     | 66.0 – 56.0 *    | 56.0 – 46.0 * |
| 0.50 - 5.00     | 56.0             | 46.0          |
| 5.00 - 30.00    | 60.0             | 50.0          |

\* Decreases with the logarithm of the frequency.

### 11.3. Configuration of EUT on Measurement

The equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 11.4. Operating Condition of EUT

11.4.1. Setup the EUT and simulator as shown as Section 11.1.

11.4.2. Turn on the power of all equipment.

11.4.3. Let the EUT work in (Charging) mode measure it.

### 11.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

### 11.6. Power Line Conducted Emission Measurement Results

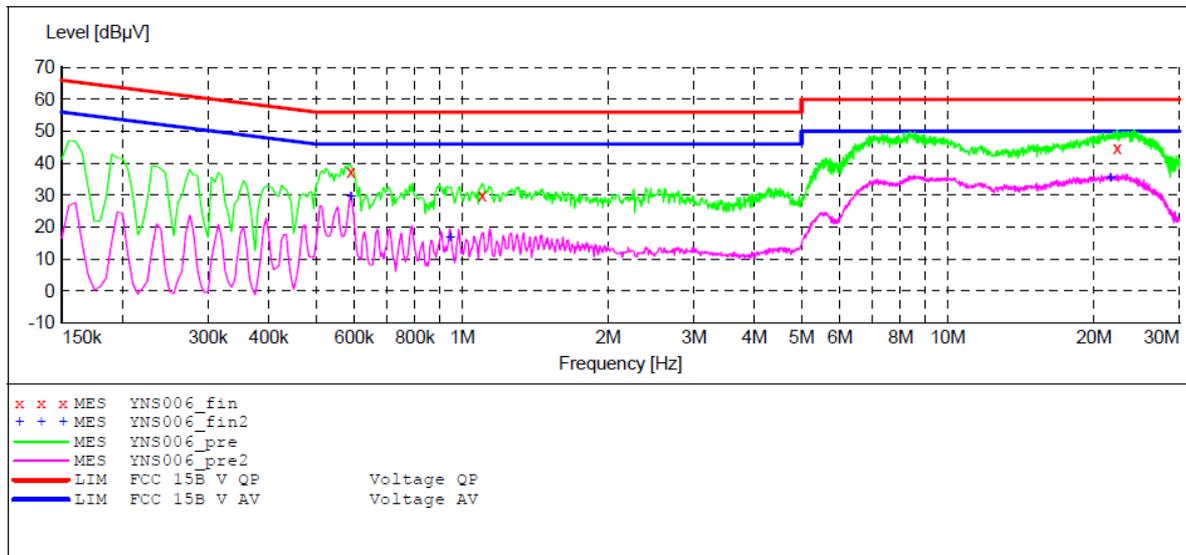
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MID M/N:PC803BXC  
 Manufacturer: Natural Sound  
 Operating Condition: WIFI  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: N 120V/60Hz  
 Comment: Report No.:ATE20150661  
 Start of Test: 4/7/2015 / 4:01:55PM

SCAN TABLE: "V 150K-30MHz fin"

| Start Frequency | Stop Frequency | Step Width | Detector  | Meas. Time | IF Bandw. | Transducer    |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 150.0 kHz       | 30.0 MHz       | 4.5 kHz    | QuasiPeak | 1.0 s      | 9 kHz     | NSLK8126 2008 |
| Average         |                |            |           |            |           |               |



MEASUREMENT RESULT: "YNS006\_fin"

4/7/2015 4:02PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.590000      | 37.20      | 10.7      | 56         | 18.8      | QP       | N    | GND |
| 1.100000      | 30.00      | 10.9      | 56         | 26.0      | QP       | N    | GND |
| 22.375000     | 44.80      | 11.4      | 60         | 15.2      | QP       | N    | GND |

MEASUREMENT RESULT: "YNS006\_fin2"

4/7/2015 4:02PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.590000      | 29.60      | 10.7      | 46         | 16.4      | AV       | N    | GND |
| 0.945000      | 16.80      | 10.8      | 46         | 29.2      | AV       | N    | GND |
| 21.650000     | 35.50      | 11.4      | 50         | 14.5      | AV       | N    | GND |

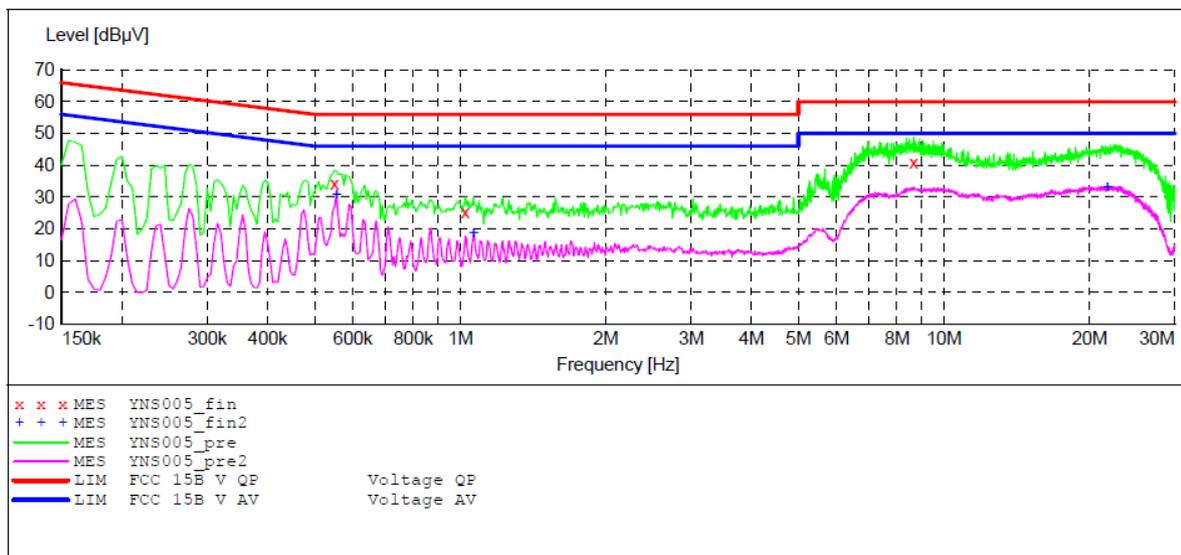
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MID M/N:PC803BXC  
 Manufacturer: Natural Sound  
 Operating Condition: WIFI  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: L 120V/60Hz  
 Comment: Report No.:ATE20150661  
 Start of Test: 4/7/2015 / 3:55:33PM

SCAN TABLE: "V 150K-30MHz fin"

| Start Frequency | Stop Frequency | Step Width | Detector  | Meas. Time | IF Bandw. | Transducer    |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 150.0 kHz       | 30.0 MHz       | 4.5 kHz    | QuasiPeak | 1.0 s      | 9 kHz     | NSLK8126 2008 |
| Average         |                |            |           |            |           |               |



MEASUREMENT RESULT: "YNS005\_fin"

4/7/2015 3:58PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.550000      | 34.20      | 10.7      | 56         | 21.8      | QP       | L1   | GND |
| 1.025000      | 25.30      | 10.8      | 56         | 30.7      | QP       | L1   | GND |
| 8.670000      | 40.70      | 11.3      | 60         | 19.3      | QP       | L1   | GND |

MEASUREMENT RESULT: "YNS005\_fin2"

4/7/2015 3:58PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.555000      | 30.80      | 10.7      | 46         | 15.2      | AV       | L1   | GND |
| 1.065000      | 18.50      | 10.9      | 46         | 27.5      | AV       | L1   | GND |
| 21.775000     | 32.90      | 11.4      | 50         | 17.1      | AV       | L1   | GND |

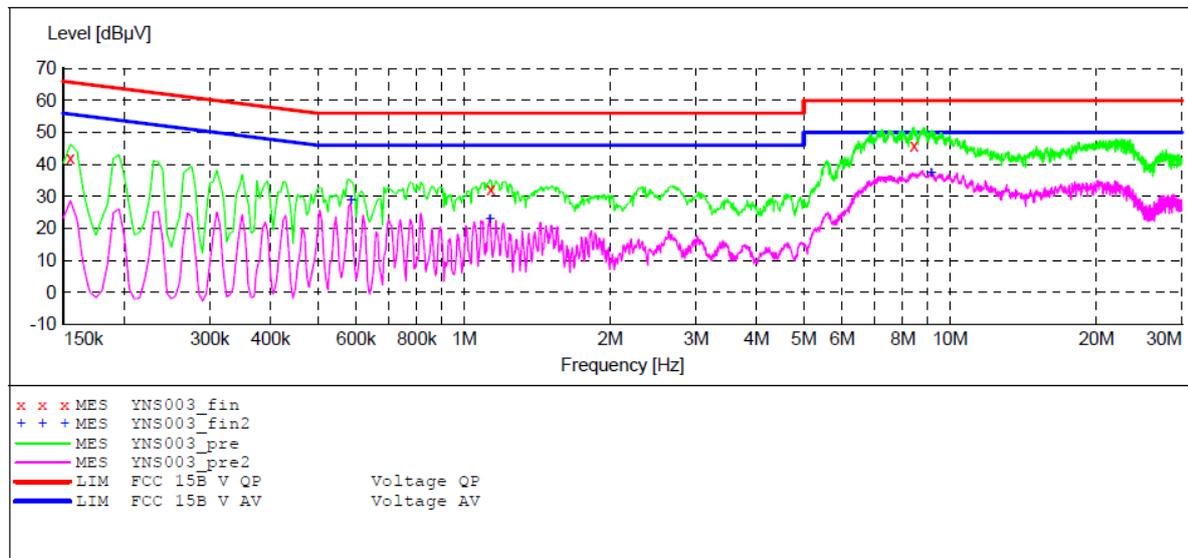
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MID M/N:PC803BXC  
 Manufacturer: Natural Sound  
 Operating Condition: WIFI  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: N 240V  
 Comment: Report No.:ATE20150661  
 Start of Test: 4/7/2015 / 3:50:13PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



MEASUREMENT RESULT: "YNS003\_fin"

4/7/2015 3:50PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.155000      | 42.10      | 10.5      | 66         | 23.6      | QP       | N    | GND |
| 1.135000      | 32.20      | 10.9      | 56         | 23.8      | QP       | N    | GND |
| 8.440000      | 45.90      | 11.3      | 60         | 14.1      | QP       | N    | GND |

MEASUREMENT RESULT: "YNS003\_fin2"

4/7/2015 3:50PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.585000      | 28.60      | 10.7      | 46         | 17.4      | AV       | N    | GND |
| 1.130000      | 22.90      | 10.9      | 46         | 23.1      | AV       | N    | GND |
| 9.160000      | 37.20      | 11.3      | 50         | 12.8      | AV       | N    | GND |

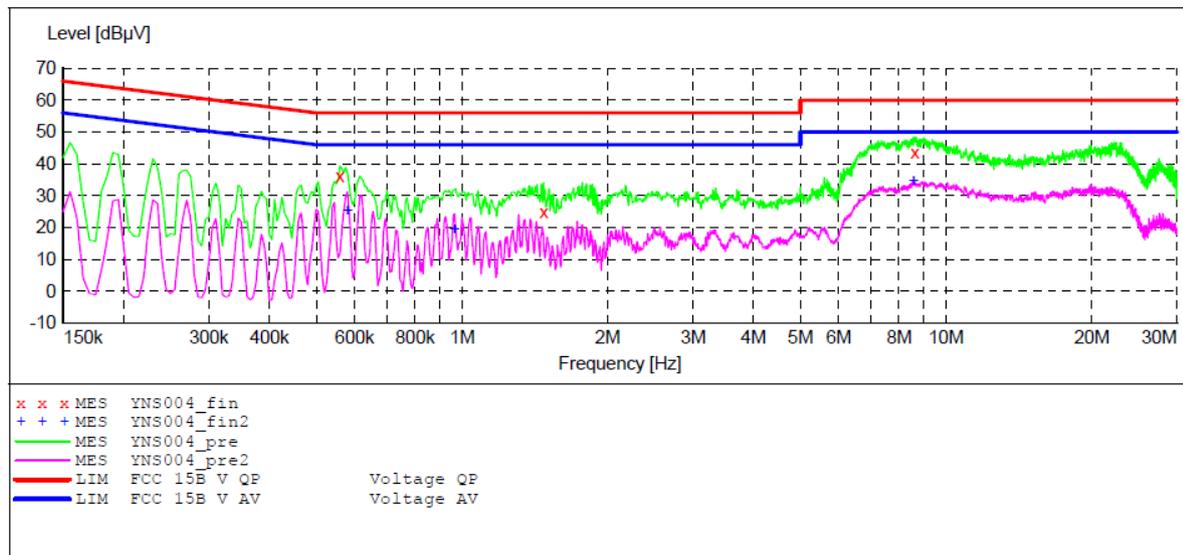
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MID M/N:PC803BXC  
 Manufacturer: Natural Sound  
 Operating Condition: WIFI  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: L 240V  
 Comment: Report No.:ATE20150661  
 Start of Test: 4/7/2015 / 3:51:34PM

SCAN TABLE: "V 150K-30MHz fin"

| Start Frequency | Stop Frequency | Step Width | Detector  | Meas. Time | IF Bandw. | Transducer    |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 150.0 kHz       | 30.0 MHz       | 4.5 kHz    | QuasiPeak | 1.0 s      | 9 kHz     | NSLK8126 2008 |
| Average         |                |            |           |            |           |               |



MEASUREMENT RESULT: "YNS004\_fin"

4/7/2015 3:55PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.560000      | 36.30      | 10.7      | 56         | 19.7      | QP       | L1   | GND |
| 1.475000      | 24.90      | 10.9      | 56         | 31.1      | QP       | L1   | GND |
| 8.620000      | 43.50      | 11.3      | 60         | 16.5      | QP       | L1   | GND |

MEASUREMENT RESULT: "YNS004\_fin2"

4/7/2015 3:55PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.580000      | 25.20      | 10.7      | 46         | 20.8      | AV       | L1   | GND |
| 0.965000      | 19.20      | 10.8      | 46         | 26.8      | AV       | L1   | GND |
| 8.580000      | 34.40      | 11.3      | 50         | 15.6      | AV       | L1   | GND |

## 12. ANTENNA REQUIREMENT

### 12.1. The Requirement

According to Section 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.

### 12.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.

