

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Interactive Response System Handset

Marketing Name: IRS

Brand Name: IRS

Model No.: RF-11

Model Difference: N/A

FCC ID: OJH-AICRF11

Report No.: ER/2012/60008-02

Issue Date: Jul. 16, 2012

FCC Rule Part: §15.249

Prepared for: Advanced International Joint Stock Company

No. 69 Tue Tinh Street, Nguyen Du ward, Hai Ba
Trung Dist., Hanoi City, Viet Nam

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: Advanced International Joint Stock Company
No. 69 Tue Tinh Street, Nguyen Du ward, Hai Ba Trung Dist., Hanoi
City, Viet Nam

Product Description: Interactive Response System Handset

Marketing Name: IRS

Brand Name: IRS

Model No.: RF-11

FCC ID: OJH-AICRF11

Model Difference: N/A

File Number: ER/2012/60008-02

Date of test: Jun. 15, 2012 ~ Jul. 13, 2012

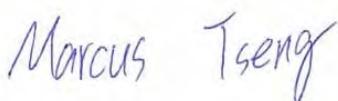
Date of EUT Received: Jun. 15, 2012

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249.

The test results of this report relate only to the tested sample identified in this report.

Test By:

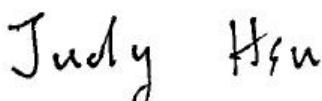


Date:

Jul. 16, 2012

Marcus Tseng / Engineer

Prepared By:

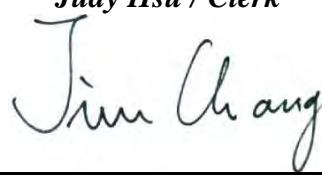


Date:

Jul. 16, 2012

Judy Hsu / Clerk

Approved By:



Date:

Jul. 16, 2012

Jim Chang / Supervisor

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Version

| Version No. | Date | Description |
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| 00 | Jul. 16, 2012 | Initial creation of document |
| | | |

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1. GENERAL INFORMATION

1.1 Product Description

| | | |
|----------------------|-------------------------------------|-------------------------------------|
| Product Name: | Interactive Response System Handset | |
| Marketing Name: | IRS | |
| Brand Name: | IRS | |
| Model No.: | RF-11 | |
| Model Difference: | N/A | |
| Transmit Power | 92.52 dBuV/m | |
| Operation Frequency: | 2433 - 2481MHz | |
| Channel number: | 1~240 channels | |
| Modulation Type: | MSK | |
| Hardware Version | 1.0 | |
| Software Version | 1.0 | |
| Power Supply | 3.0Vdc from Lithium battery*2 | |
| | Battery: | Model No.: CR2032 Supplier: SONY |
| Antenna Designation: | PIFA Antenna, Gain: 0.81 dBi | |

This report complies with FCC 15.249

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID:OJH-AICRF11 filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number is: 990257 and 236194, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the engineering operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

| Frequency (MHz) | Conducted Limit (dBuV) | |
|--------------------|------------------------|---------|
| | Quasi-Peak | Average |
| 0.15 – 0.5 | 66 - 56 | 56 - 46 |
| 0.5 – 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

(2) Radiated Emission 15.249(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

| Frequency (MHz) | Field strength of Fundamental | Field strength of Harmonics | Distance (m) |
|--------------------|----------------------------------|--------------------------------|--------------|
| 902 - 928 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |
| 2400 – 2483.5 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |
| 5725 – 5875 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |
| 24.0 – 24.25 GHz | 250 mV/m (107.95dBuV/m) | 2500 uV/m (67.95dBuV/m) | 3 |

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(3) Radiated Emission 15.249 (d)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 as below, whichever is the lesser attenuation.

| Frequency (MHz) | Field strength μV/m | Distance (m) | Field strength at 3m dBμV/m |
|--------------------|------------------------|--------------|--------------------------------|
| 1.705-30 | 30 | 30 | 69.54 |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

(4) Radiated Emission 15.249(e)

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205
4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of § 15.205, then the general radiated emission limits in § 15.209 apply.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration(Radiated)

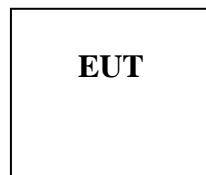


Table 2-2 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. |
|------|-----------|-----------|--------------------|------------|
| 1. | N/A | | | |

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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3. Summary of Test Results

| FCC Rules | Description Of Test | Result |
|---------------|-----------------------------|-----------|
| §15.207 | Conducted Emission | N/A |
| §15.249(a)(e) | Radiated Emission | Compliant |
| §15.249(d) | 20dB band width Measurement | Compliant |

4. Description of test modes

The EUT has been tested under operating condition.

The EUT is staying in continuous transmitting mode.

Channel low(2433MHz)、mid (2458MHz) and high(2481MHz) with highest data rate are chosen for full testing.

5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

| | |
|--|------------------------|
| Measurement uncertainty (Polarization : Vertical) | 30MHz - 180MHz: 3.37dB |
| | 180MHz -417MHz: 3.19dB |
| | 0.417GHz-1GHz: 3.19dB |
| | 1GHz - 18GHz: 4.04dB |
| | 18GHz - 40GHz: 4.04dB |

| | |
|--|------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 30MHz - 167MHz: 4.22dB |
| | 167MHz -500MHz: 3.44dB |
| | 0.5GHz-1GHz: 3.39dB |
| | 1GHz - 18GHz: 4.08dB |
| | 18GHz - 40GHz: 4.08dB |

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6. Conducted Emissions Test

6.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

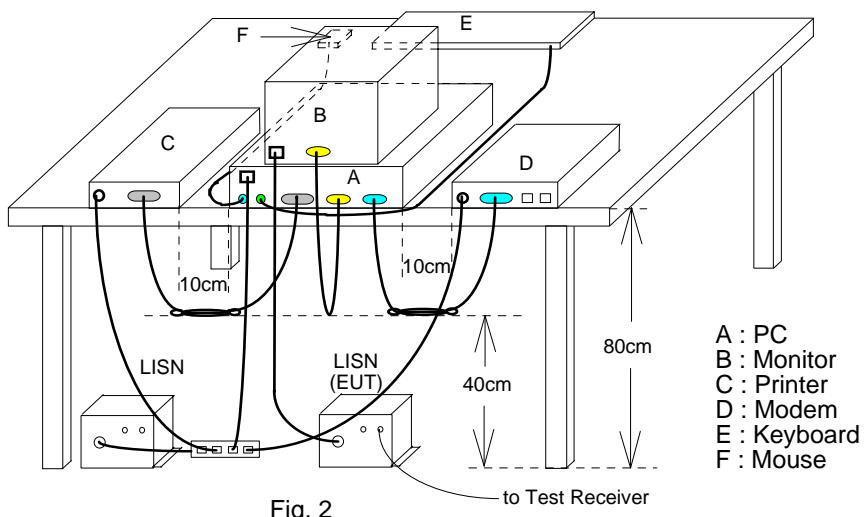


Fig. 2

6.3 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|-------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100759 | 05/20/2011 | 05/19/2013 |
| EMI Receiver | R&S | ESCS 30 | 828985/004 | 09/23/2011 | 09/22/2012 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 03/23/2012 | 03/22/2013 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 03/23/2012 | 03/22/2013 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 01/05/2012 | 01/04/2013 |

6.4 Measurement Result:

N/A. From 3.0Vdc Battery*2.

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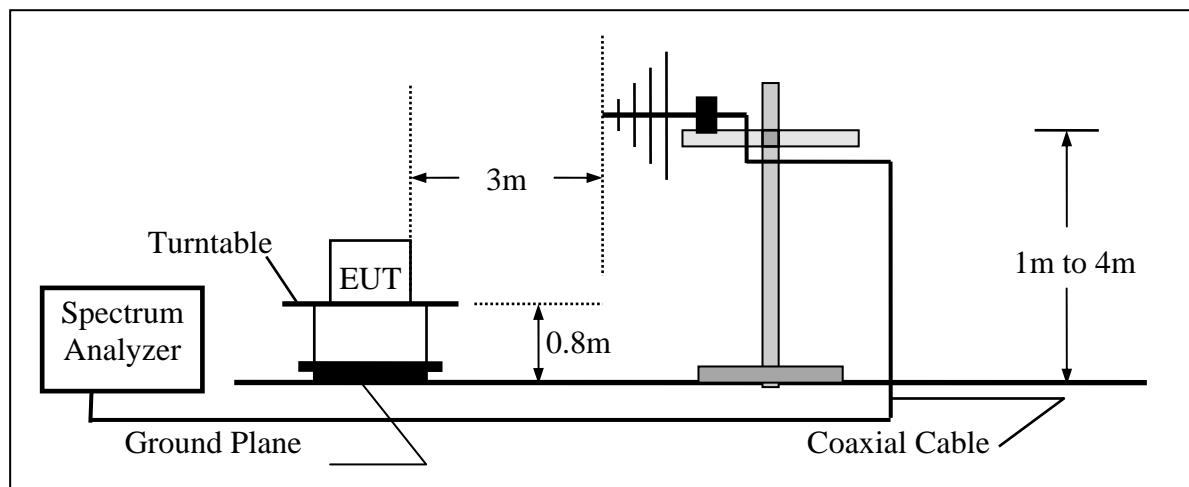
7. Radiated Emission Test

7.1 Measurement Procedure

1. The EUT was placed on a turntable that is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

7.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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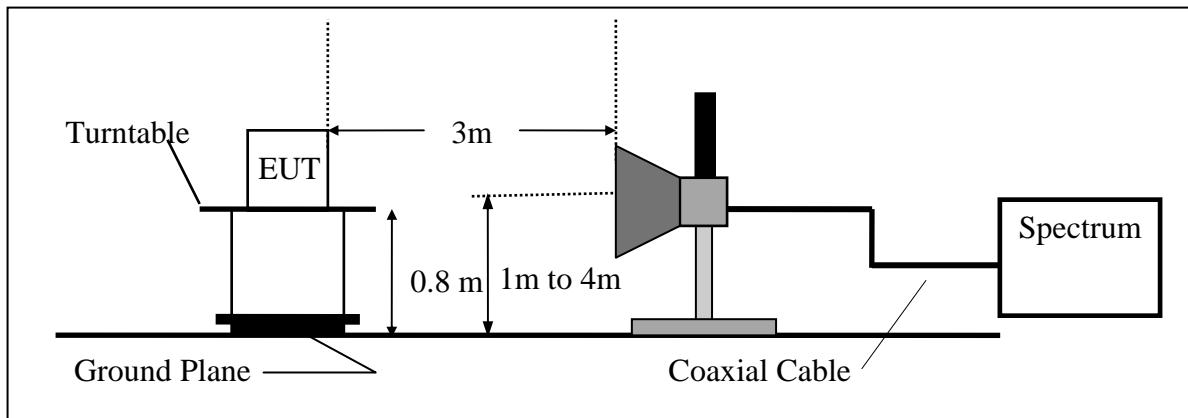
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



7.3 Measurement Equipment Used:

| 966 Chamber | | | | | |
|------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100759 | 05/20/2011 | 05/19/2013 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 04/15/2011 | 04/14/2013 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 02/15/2011 | 02/14/2013 |
| Spectrum Analyzer | R&S | FSV-30 | 101398 | 10/18/2011 | 10/17/2013 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 01/10/2012 | 01/09/2014 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/19/2011 | 05/18/2013 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/11/2011 | 07/10/2013 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/04/2012 | 01/03/2013 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/04/2012 | 01/03/2013 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M2 | 02/28/2012 | 02/28/2013 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 02/28/2012 | 02/27/2013 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_Rx | 9 | 01/04/2012 | 01/03/2013 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2011 | 07/14/2012 |

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7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF - CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

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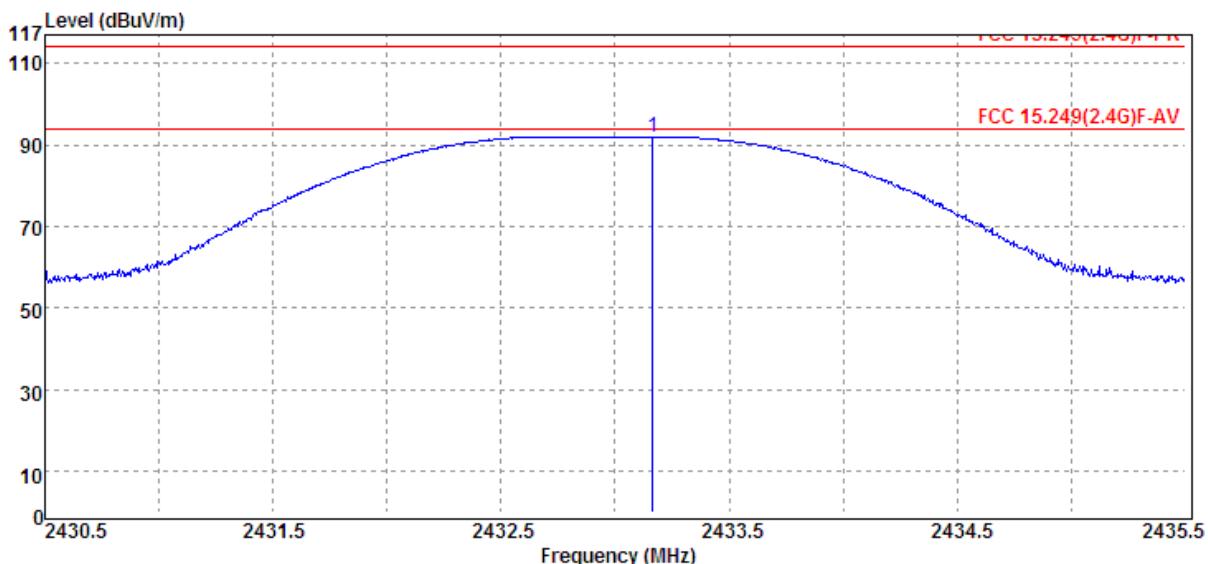
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7.5 Measurement Result

Radiated Spurious Emission Measurement Result

| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-12 |
| Fundamental Frequency | :2433 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :MAIN | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

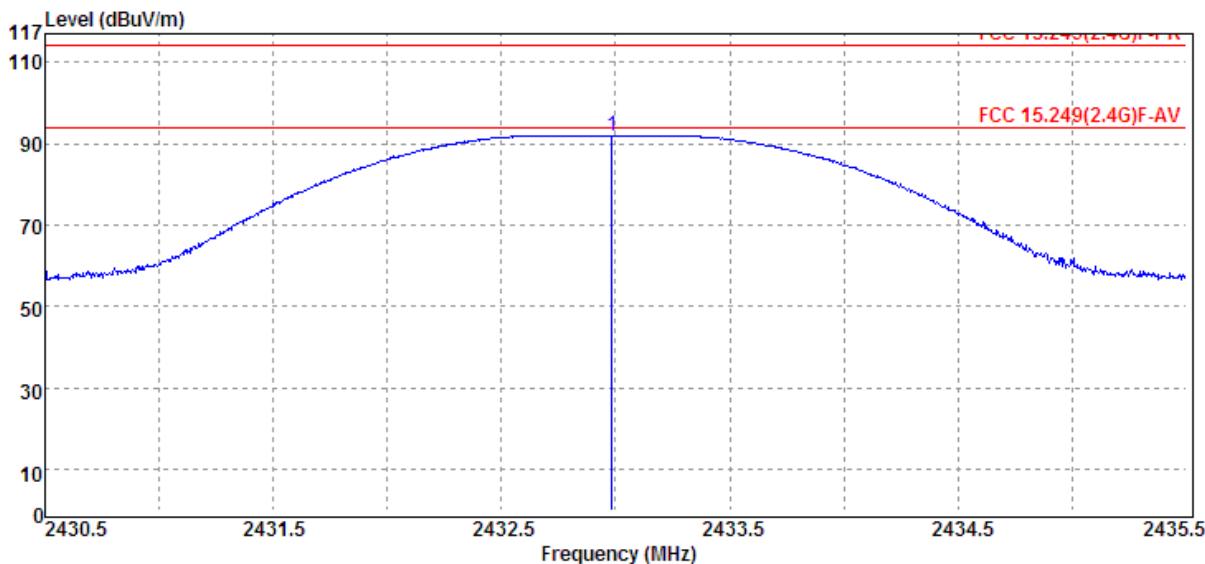
"---" : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|----------|---------------|--------|-------|--------|
| MHz | F/H/E/S | PK/QP/AV | Mode | Reading Level | FS | @3m | Margin |
| 2433.17 | F | Peak | Peak | 87.27 | 4.77 | 92.04 | 114.00 |

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Operation Band :2.4G Test Date :2012-07-12
Fundamental Frequency :2433 MHz Temp./Humi. :25 deg_C / 60 RH
Operation Mode :MAIN Engineer :Nick
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL



Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

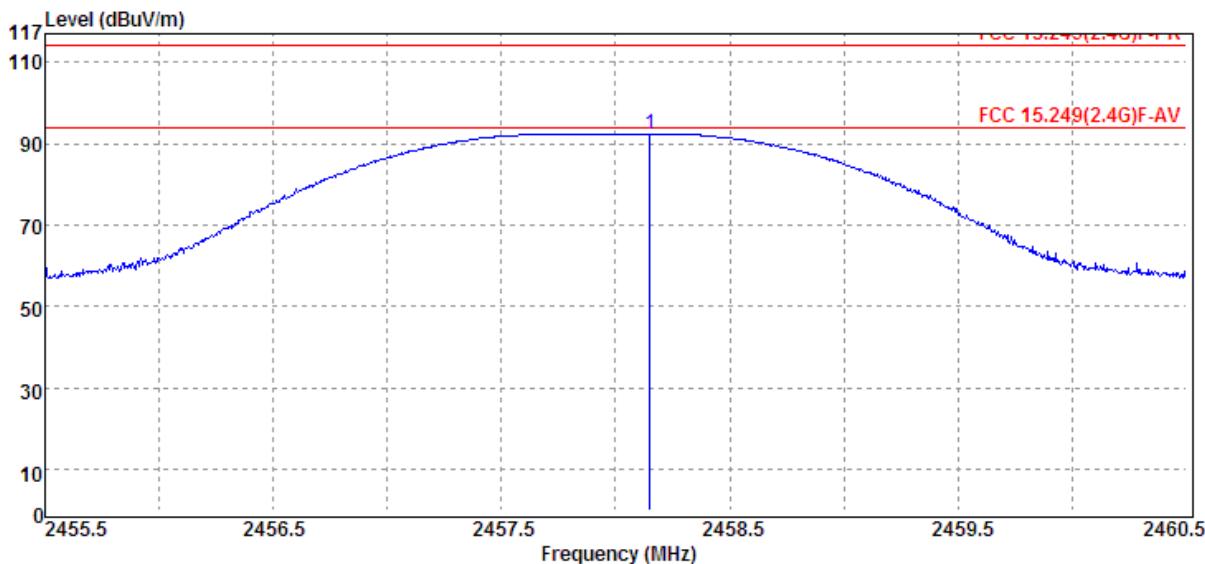
"--" : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|----------|---------------|--------|-------|--------|
| MHz | F/H/E/S | PK/QP/AV | Mode | Reading Level | FS | @3m | Margin |
| 2432.99 | F | Peak | Peak | 86.51 | 5.58 | 92.09 | 114.00 |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-12 |
| Fundamental Frequency | :2458 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :MAIN | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"--" : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|----------|---------------|--------|-------|--------|
| MHz | F/H/E/S | PK/QP/AV | Mode | Reading Level | FS | @3m | Margin |
| 2458.15 | F | Peak | | 87.38 | 5.07 | 92.45 | 114.00 |

2458.15 F Peak 87.38 5.07 92.45 114.00 -21.55

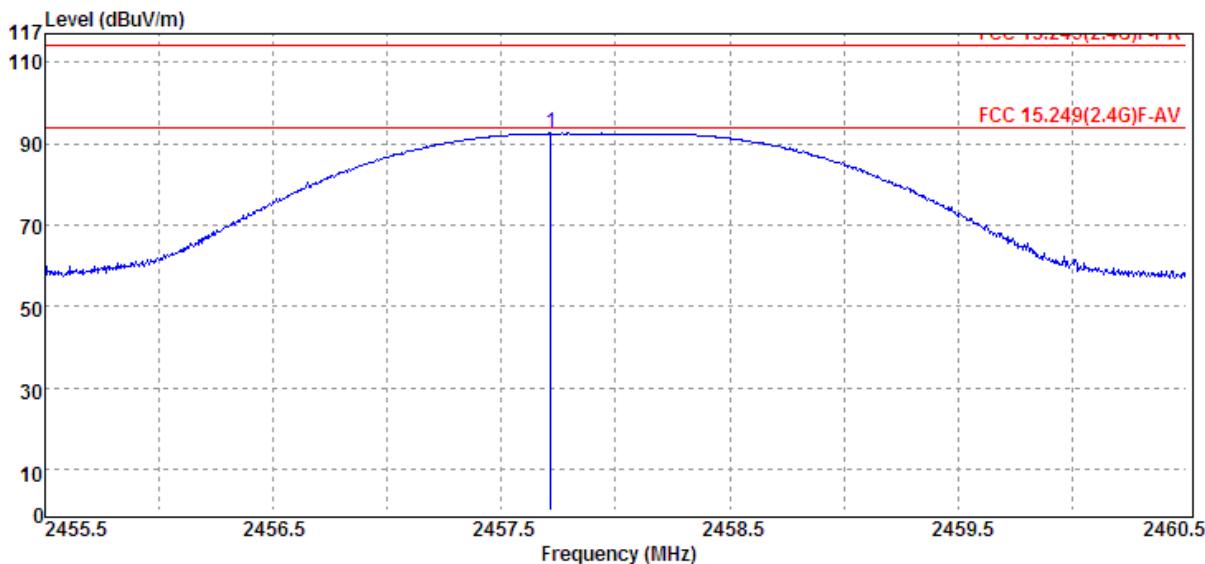
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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-12 |
| Fundamental Frequency | :2458 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :MAIN | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"--" : denotes Noise Floor.

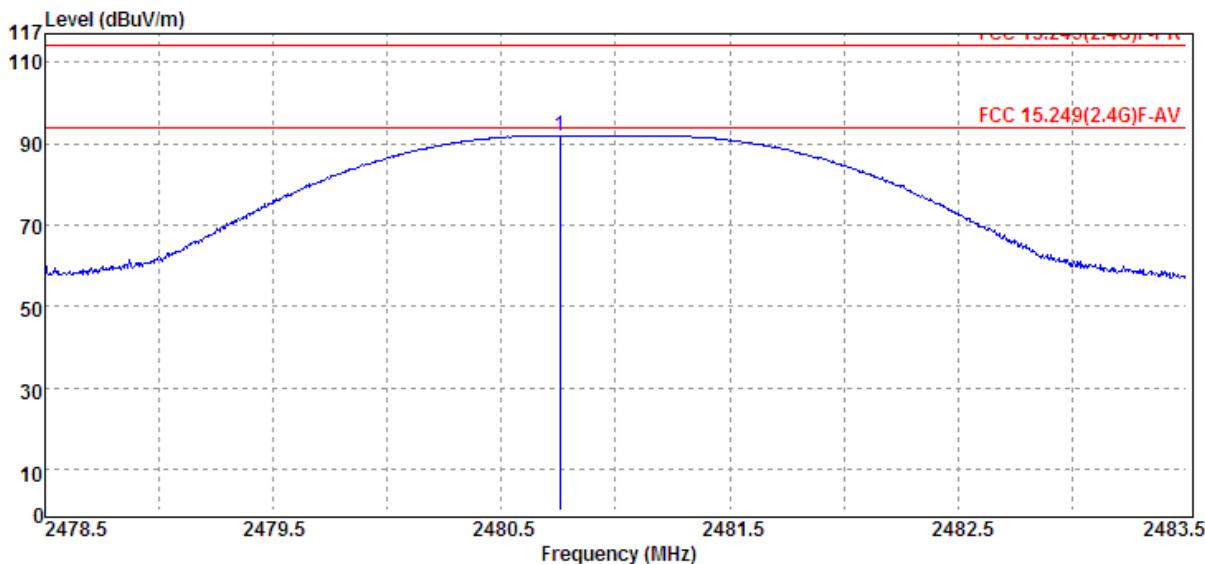
| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|----------|---------------|--------|-------|--------|
| MHz | F/H/E/S | PK/QP/AV | Mode | Reading Level | FS | @3m | Margin |
| 2457.72 | F | Peak | | 86.53 | 5.99 | 92.52 | 114.00 |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-12 |
| Fundamental Frequency | :2481 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :MAIN | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"--" : denotes Noise Floor.

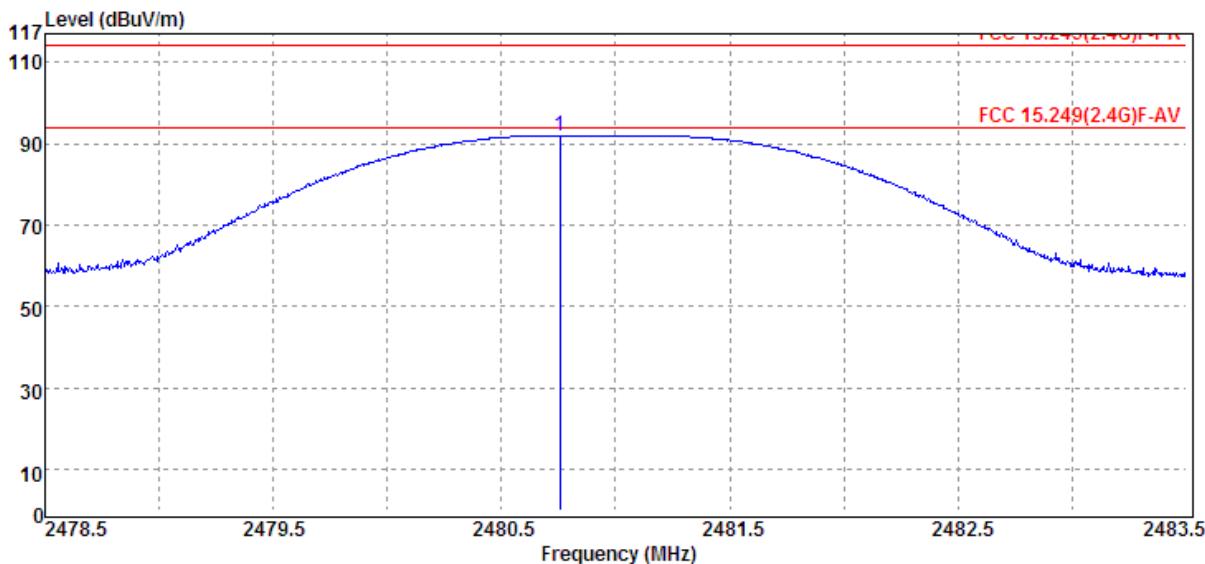
| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|----------|---------------|--------|-------|--------|
| MHz | F/H/E/S | PK/QP/AV | Mode | Reading Level | FS | @3m | Margin |
| 2480.76 | F | Peak | | 86.75 | 5.24 | 91.99 | 114.00 |

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Operation Band :2.4G Test Date :2012-07-12
Fundamental Frequency :2481 MHz Temp./Humi. :25 deg_C / 60 RH
Operation Mode :MAIN Engineer :Nick
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL



Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"--" : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|----------|---------------|--------|--------|--------|
| MHz | F/H/E/S | PK/QP/AV | Mode | Reading Level | FS | @3m | Margin |
| 2480.76 | F | Peak | 85.72 | 6.25 | 91.97 | 114.00 | -22.03 |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-05 |
| Fundamental Frequency | :2433 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :TX LOW | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“--“ : denotes Noise Floor.

| Freq. MHz | Note F/H/E/S | Detector Mode | Spectrum Reading Level | Factor dB | Actual FS | Limit @3m | Safe Margin |
|--------------|-----------------|------------------|---------------------------|--------------|--------------|--------------|----------------|
| | | | dB μ V | | dB μ V/m | dB μ V/m | dB |
| 31.94 | S | Peak | 30.38 | -14.30 | 16.08 | 40.00 | -23.92 |
| 99.84 | S | Peak | 38.57 | -16.84 | 21.73 | 43.50 | -21.77 |
| 111.48 | S | Peak | 35.26 | -15.56 | 19.70 | 43.50 | -23.80 |
| 143.49 | S | Peak | 29.96 | -12.82 | 17.14 | 43.50 | -26.36 |
| 232.73 | S | Peak | 28.02 | -14.42 | 13.60 | 46.00 | -32.40 |
| 663.41 | S | Peak | 29.24 | -6.32 | 22.92 | 46.00 | -23.08 |
| 4866.00 | H | Peak | 37.24 | 10.05 | 47.29 | 74.00 | -26.71 |
| 7299.00 | H | --- | | | | | |
| 9732.00 | H | --- | | | | | |
| 12165.00 | H | --- | | | | | |
| 14598.00 | H | --- | | | | | |
| 17031.00 | H | --- | | | | | |
| 19464.00 | H | --- | | | | | |
| 21897.00 | H | --- | | | | | |
| 24330.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-05 |
| Fundamental Frequency | :2433 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :TX LOW | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“--“ : denotes Noise Floor.

| Freq. MHz | Note F/H/E/S | Detector Mode | Spectrum Reading Level | Factor dB | Actual | Limit @3m | Safe Margin |
|--------------|-----------------|------------------|---------------------------|--------------|------------------|--------------|----------------|
| | | | | | FS dB μ V | dB μ V/m | dB μ V/m |
| 259.89 | S | Peak | 31.71 | -13.75 | 17.96 | 46.00 | -28.04 |
| 363.68 | S | Peak | 36.70 | -11.50 | 25.20 | 46.00 | -20.80 |
| 416.06 | S | Peak | 35.40 | -10.71 | 24.69 | 46.00 | -21.31 |
| 649.83 | S | Peak | 32.60 | -6.60 | 26.00 | 46.00 | -20.00 |
| 676.02 | S | Peak | 32.32 | -6.10 | 26.22 | 46.00 | -19.78 |
| 988.36 | S | Peak | 30.99 | -1.90 | 29.09 | 54.00 | -24.91 |
| 4866.00 | H | Peak | 36.51 | 10.01 | 46.52 | 74.00 | -27.48 |
| 7299.00 | H | --- | | | | | |
| 9732.00 | H | --- | | | | | |
| 12165.00 | H | --- | | | | | |
| 14598.00 | H | --- | | | | | |
| 17031.00 | H | --- | | | | | |
| 19464.00 | H | --- | | | | | |
| 21897.00 | H | --- | | | | | |
| 24330.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-05 |
| Fundamental Frequency | :2458 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :TX MID | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“--“ : denotes Noise Floor.

| Freq. MHz | Note F/H/E/S | Detector Mode | Spectrum Reading Level | Factor dB | Actual FS | Limit @3m | Safe Margin |
|--------------|-----------------|------------------|---------------------------|--------------|--------------|--------------|----------------|
| | | | dB μ V | | dB μ V/m | dB μ V/m | dB |
| 31.94 | S | Peak | 32.61 | -14.30 | 18.31 | 40.00 | -21.69 |
| 99.84 | S | Peak | 38.16 | -16.84 | 21.32 | 43.50 | -22.18 |
| 110.51 | S | Peak | 35.32 | -15.69 | 19.63 | 43.50 | -23.87 |
| 128.94 | S | Peak | 31.75 | -13.97 | 17.78 | 43.50 | -25.72 |
| 159.98 | S | Peak | 27.32 | -12.26 | 15.06 | 43.50 | -28.44 |
| 469.41 | S | Peak | 28.62 | -9.90 | 18.72 | 46.00 | -27.28 |
| 4916.00 | H | Peak | 37.17 | 10.01 | 47.18 | 74.00 | -26.82 |
| 7374.00 | H | --- | | | | | |
| 9832.00 | H | --- | | | | | |
| 12290.00 | H | --- | | | | | |
| 14748.00 | H | --- | | | | | |
| 17206.00 | H | --- | | | | | |
| 19664.00 | H | --- | | | | | |
| 22122.00 | H | --- | | | | | |
| 24580.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-05 |
| Fundamental Frequency | :2458 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :TX MID | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“--“ : denotes Noise Floor.

| Freq. MHz | Note F/H/E/S | Detector Mode | Spectrum Reading Level | Factor dB | Actual | Limit @3m | Safe Margin |
|--------------|-----------------|------------------|---------------------------|--------------|------------------|--------------|----------------|
| | | | | | FS dB μ V | dB μ V/m | dB μ V/m |
| 42.61 | S | Peak | 28.70 | -13.63 | 15.07 | 40.00 | -24.93 |
| 312.27 | S | Peak | 33.99 | -12.27 | 21.72 | 46.00 | -24.28 |
| 363.68 | S | Peak | 37.18 | -11.50 | 25.68 | 46.00 | -20.32 |
| 702.21 | S | Peak | 32.72 | -5.71 | 27.01 | 46.00 | -18.99 |
| 844.80 | S | Peak | 31.47 | -3.73 | 27.74 | 46.00 | -18.26 |
| 988.36 | S | Peak | 29.85 | -1.90 | 27.95 | 54.00 | -26.05 |
| 4916.00 | H | Peak | 37.14 | 9.91 | 47.05 | 74.00 | -26.95 |
| 7374.00 | H | --- | | | | | |
| 9832.00 | H | --- | | | | | |
| 12290.00 | H | --- | | | | | |
| 14748.00 | H | --- | | | | | |
| 17206.00 | H | --- | | | | | |
| 19664.00 | H | --- | | | | | |
| 22122.00 | H | --- | | | | | |
| 24580.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-05 |
| Fundamental Frequency | :2481 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :TX HIGH | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. MHz | Note F/H/E/S | Detector Mode | Spectrum Reading Level | Factor dB | Actual | Limit @3m | Safe |
|--------------|-----------------|------------------|---------------------------|--------------|--------------------|--------------|--------------|
| | | | | | FS dB μ V/m | dB μ V/m | Margin dB |
| 31.94 | S | Peak | 30.60 | -14.30 | 16.30 | 40.00 | -23.70 |
| 99.84 | S | Peak | 38.21 | -16.84 | 21.37 | 43.50 | -22.13 |
| 111.48 | S | Peak | 35.82 | -15.56 | 20.26 | 43.50 | -23.24 |
| 321.97 | S | Peak | 27.69 | -12.04 | 15.65 | 46.00 | -30.35 |
| 355.92 | S | Peak | 27.91 | -11.59 | 16.32 | 46.00 | -29.68 |
| 963.14 | S | Peak | 28.31 | -2.04 | 26.27 | 54.00 | -27.73 |
| 4962.00 | H | Peak | 36.77 | 10.07 | 46.84 | 74.00 | -27.16 |
| 7443.00 | H | --- | | | | | |
| 9924.00 | H | --- | | | | | |
| 12405.00 | H | --- | | | | | |
| 14886.00 | H | --- | | | | | |
| 17367.00 | H | --- | | | | | |
| 19848.00 | H | --- | | | | | |
| 22329.00 | H | --- | | | | | |
| 24810.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :2.4G | Test Date | :2012-07-05 |
| Fundamental Frequency | :2481 MHz | Temp./Humi. | :25 deg_C / 60 RH |
| Operation Mode | :TX HIGH | Engineer | :Nick |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. MHz | Note F/H/E/S | Detector Mode | Spectrum Reading Level | Factor dB | Actual | Limit @3m | Safe |
|--------------|-----------------|------------------|---------------------------|--------------|--------------------|--------------|--------------|
| | | | | | FS dB μ V/m | dB μ V/m | Margin dB |
| 61.04 | S | Peak | 28.89 | -14.78 | 14.11 | 40.00 | -25.89 |
| 312.27 | S | Peak | 34.39 | -12.27 | 22.12 | 46.00 | -23.88 |
| 363.68 | S | Peak | 37.46 | -11.50 | 25.96 | 46.00 | -20.04 |
| 416.06 | S | Peak | 35.46 | -10.71 | 24.75 | 46.00 | -21.25 |
| 649.83 | S | Peak | 31.89 | -6.60 | 25.29 | 46.00 | -20.71 |
| 702.21 | S | Peak | 32.30 | -5.71 | 26.59 | 46.00 | -19.41 |
| 4962.00 | H | Peak | 37.49 | 9.91 | 47.40 | 74.00 | -26.60 |
| 7443.00 | H | --- | | | | | |
| 9924.00 | H | --- | | | | | |
| 12405.00 | H | --- | | | | | |
| 14886.00 | H | --- | | | | | |
| 17367.00 | H | --- | | | | | |
| 19848.00 | H | --- | | | | | |
| 22329.00 | H | --- | | | | | |
| 24810.00 | H | --- | | | | | |

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8. 20 dB Band Width Measurement

8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span =1MHz.
4. Set SPA Max hold. Mark peak, -20dB.

8.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

8.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

8.4 Measurement Results:

2433 MHz = 899.126 kHz

2458 MHz = 897.708 kHz

2481 MHz = 906.478 kHz

Refer to attached data chart.

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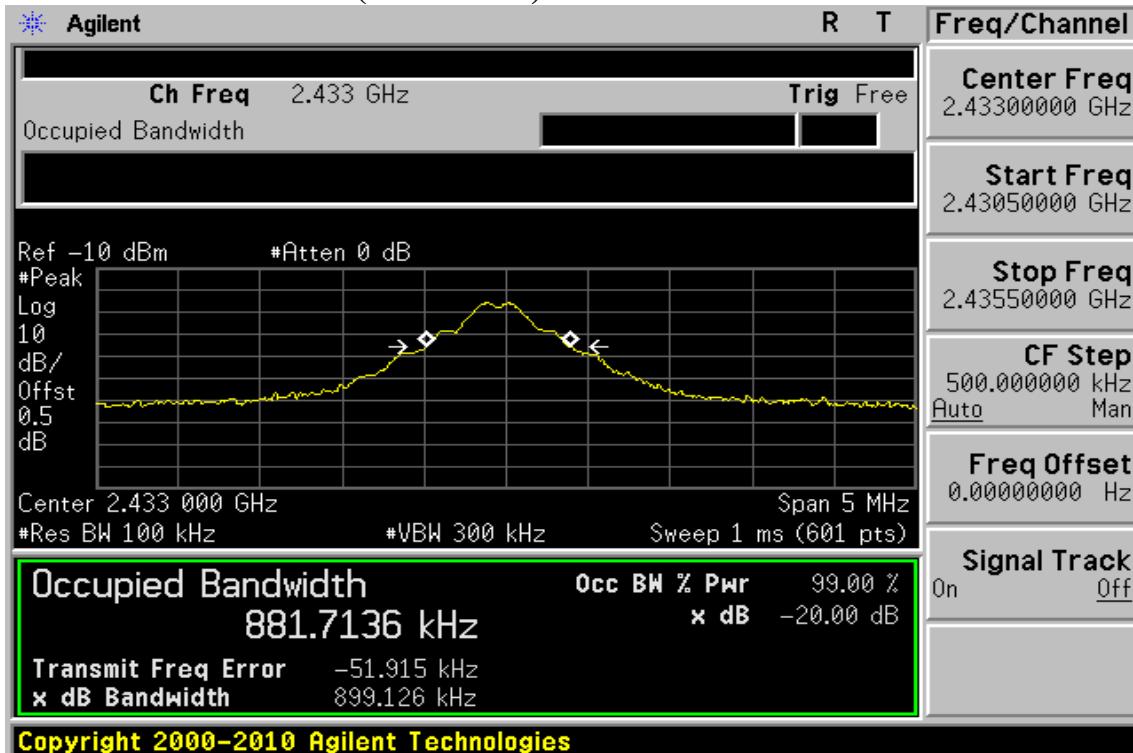
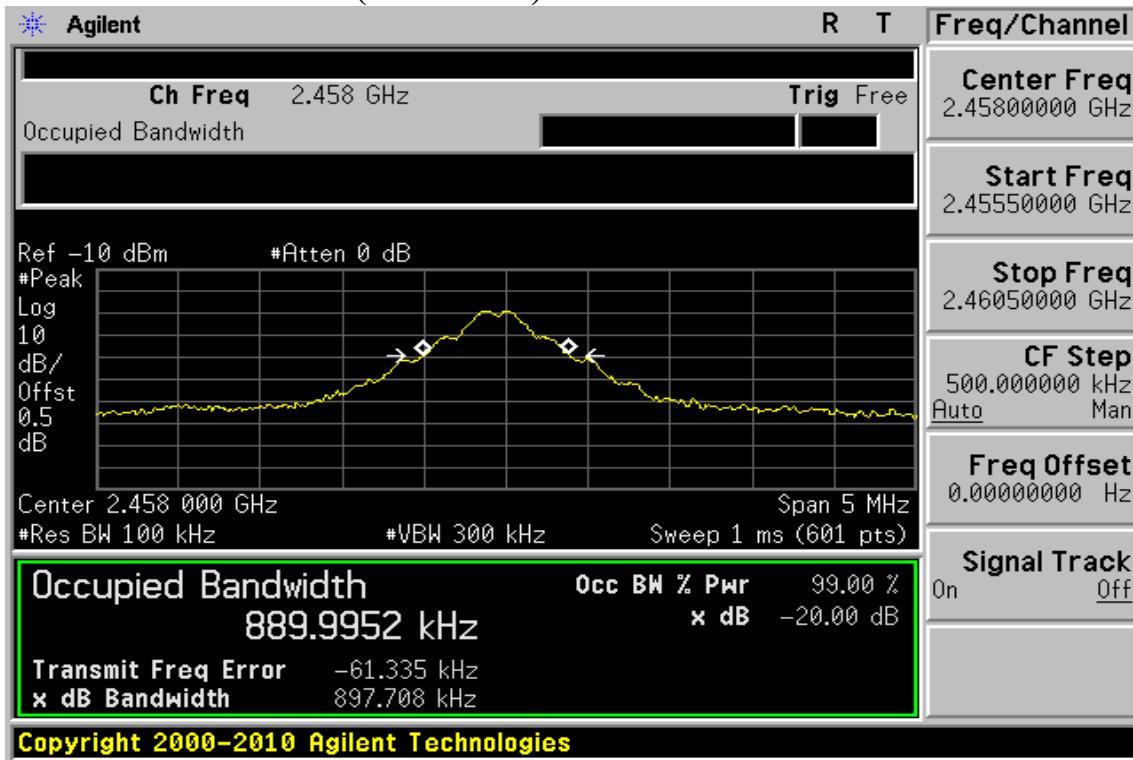
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20dB Band Width test Plot (2433 MHz)**20dB Band Width test Plot (2458 MHz)**

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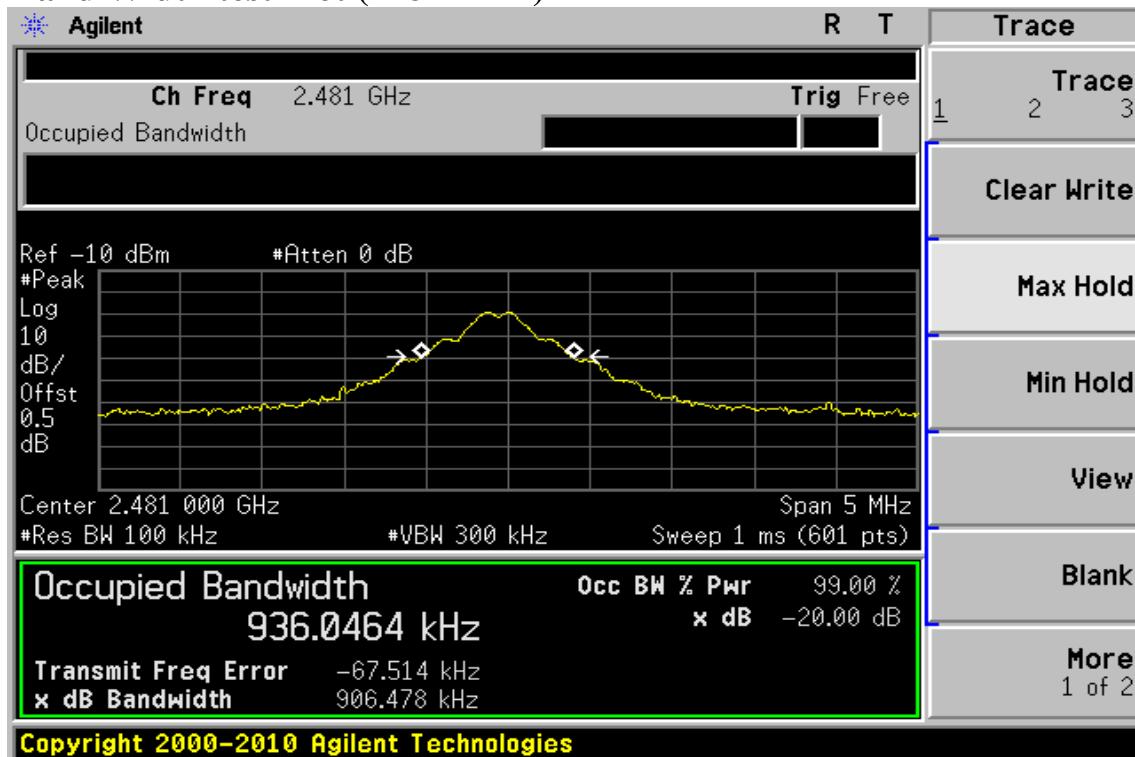
台灣檢驗科技股份有限公司

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20dB Band Width test Plot (2481 MHz)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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