



# FCC TEST REPORT

according to

## FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2009

|            |  |
|------------|--|
| Applicant  | : EXITO ELECTRONICS CO., LTD.                                  |
| Address    | : No. 40, Wen Hua 1st Rd, Kweishan,<br>Taoyuan, Taiwan, R.O.C. |
| Equipment  | : EXT-004  |
| Model No.  | : EXT-004  |
| FCC ID     | : A3AEXT004  |
| Trade Name | : EXITO  |

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **CerpPASS Technology Corp.** the test report shall not be reproduced except in full.



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### History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

| Attachment No. | Issue Date    | Description |
|----------------|---------------|-------------|
| TEFI1105182    | Nov. 17, 2011 | Original.   |
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# CERTIFICATE OF COMPLIANCE

according to

## FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2009

|           |   |  |
|-----------|---|--|
| Applicant | : | EXITO ELECTRONICS CO., LTD.                                  |
| Address   | : | No. 40, Wen Hua 1st Rd, Kweishan, Taoyuan,<br>Taiwan, R.O.C. |
| Equipment | : | EXT-004  |
| Model No. | : | EXT-004  |
| FCC ID    | : | A3AEXT004  |

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4**. The equipment was ***passed*** the test performed according to **FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2009**.

The test was carried out on Nov. 14, 2011 at ***CerpPASS Technology Corp.***

Signature

Hill Chen  
EMC/RF B.U. Assistant Manager



## 1. Report of Measurements and Examinations

### 1.1. List of Measurements and Examinations

| FCC Rule         | Test Type                              | Result | Remark   |
|------------------|--|--------|--|
| 15.203           | Antenna Requirement                    | Pass   |  |
| 15.207           | Conducted Emission                     | Pass   | 12Vdc from batteries                               |
| 15.209<br>15.231 | Radiated Emission                      | Pass   | Minimum Passing margin is<br>-9.08dB at 1260.2 MHz |
| 15.231           | 20dB Occupied<br>Bandwidth Measurement | Pass   | Meet the requirement of limit                      |

Note: the information of measurement uncertainty is available upon the customer's request.



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

- Supply Voltage: 3V~12V
- Working Current: max 40mA(12V), min 9mA(3V)
- Modulation Mode: ASK/ OOK
- Working Frequency: 315MHz
- Frequency error:  $\pm 150\text{KHz}$
- Transmission: 25mW(315MHz at 12V)

### 2.2. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included EUT for RF test.
- c. Press the button continuously to keep the EUT to transmit signal by wireless.

### 2.3. Description of Test System

No support system during the test.



### 3. General Information of Test

|                                |  |
|--------------------------------|--|
| Test Site :                    | CerpPASS Technology Corp.<br>2F-11, No. 3, Yuan Qu St., (Nankang Software Park),<br>Taipei, Taiwan 115, R.O.C. |
| Test Site Location (OATS1-SD): | No. 68-1, Shibachong Si, Shihding Township,<br>Taipei County, Taiwan, R.O.C.                                   |
| FCC Registration Number :      | TW1049, TW1056, 982971, 488071   |
| IC Registration Number :       | 4934C-1, 4934D-1   |
| Test Voltage:                  | DC 12V   |
| Test in Compliance with:       | FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2009   |
| Frequency Range Investigated:  | Conducted Emission Test: from 150kHz to 30 MHz<br>Radiated Emission Test: from 30 MHz to 25000 MHz             |
| Modulation Type:               | ASK  |
| Antenna Type:                  | PCB Antenna  |
| Test Distance:                 | The test distance of radiated emission above 1GHz from<br>antenna to EUT is 3 M.                               |

### 4. Antenna Requirements

#### 4.1. Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if 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 6dBi.

#### 4.2. Antenna Construction and Directional Gain

Antenna Type: PCB Antenna

Antenna Gain: 0.79 dBi



## 5. Test of Conducted Emission

### 5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency<br>(MHz) | Quasi Peak<br>(dB $\mu$ V) | Average<br>(dB $\mu$ V) |
|--------------------|----------------------------|-------------------------|
| 0.15 – 0.5         | 66-56*                     | 56-46*                  |
| 0.5 – 5.0          | 56                         | 46                      |
| 5.0 – 30.0         | 60                         | 50                      |

\*Decreases with the logarithm of the frequency.

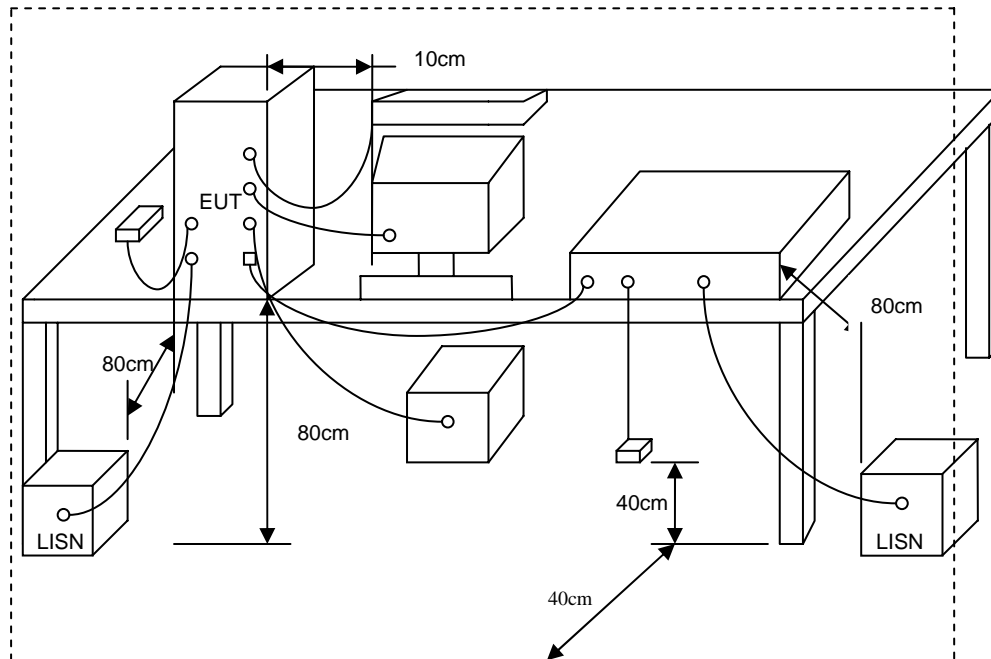
### 5.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.





### 5.3. Typical Test Setup



### 5.4. Measurement Equipment

| Instrument/<br>Ancillary | Model No.   | Manufacturer | Serial No. | Calibration<br>Date | Valid Date. |
|--------------------------|-------------|--------------|------------|---------------------|-------------|
| EMI Receiver             | R&S         | ESCI         | 100443     | 2011/02/08          | 2012/02/07  |
| LISN                     | Schwarzbeck | NSLK 8127    | 8127-516   | 2011/05/05          | 2012/05/04  |
| LISN                     | Schwarzbeck | NSLK 8127    | 8127-568   | 2011/08/24          | 2012/08/23  |

### 5.5. Test Result and Data

The power supply is from DC, so the test item is not applicable.



## 6. Test of Radiated Emission

### 6.1. Test Limit

According to 15.231 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

| Frequency (MHz) | Field Strength of Fundamental |                                 | Field Strength of Spurious |                                 |
|-----------------|-------------------------------|---------------------------------|----------------------------|---------------------------------|
|                 | $\mu\text{V}/\text{m}$        | $\text{dB}\mu\text{V}/\text{m}$ | $\mu\text{V}/\text{m}$     | $\text{dB}\mu\text{V}/\text{m}$ |
| 40.66 ~ 40.70   | 2250                          | 67.04                           | 225                        | 48.04                           |
| 70 ~ 130        | 1250                          | 61.94                           | 125                        | 41.94                           |
| 130 ~ 174       | 1250 ~ 3750                   | 61.94 ~ 71.48                   | 125 ~ 375                  | 41.94 ~ 51.48                   |
| 174 ~ 260       | 3750                          | 71.48                           | 375                        | 51.48                           |
| 260 ~ 470       | 3750 ~ 12500                  | 71.48 ~ 81.94                   | 375 ~ 1250                 | 51.48 ~ 61.94                   |
| Above 470       | 12500                         | 81.94                           | 1250                       | 61.94                           |

NOTE:

1. Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz,  $\mu\text{V}/\text{m}$  at 3 meters =  $56.81818(F)-6136.3636$ ; for the band 260-470 MHz,  $\mu\text{V}/\text{m}$  at 3 meters =  $41.6667(F)-7083.3333$ . The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.
2. The above field strength limits are specified at a distance of 3meters. The tighter limits apply at the band edges.

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Frequency (MHz) | Distance | Limit ( $\mu\text{V}/\text{m}$ ) |
|-----------------|----------|----------------------------------|
| 0.09 ~ 0.490    | 300m     | $2400/F(\text{kHz})$             |
| 0.490 ~ 1.705   | 30m      | $24000/ F(\text{kHz})$           |
| 1.705 ~ 30      | 30m      | 30                               |
| 30 ~ 88         | 3m       | 100                              |
| 88 ~ 216        | 3m       | 150                              |
| 216 ~ 960       | 3m       | 200                              |
| Above 960       | 3m       | 500                              |

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, 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.



## 6.2. Test Procedures

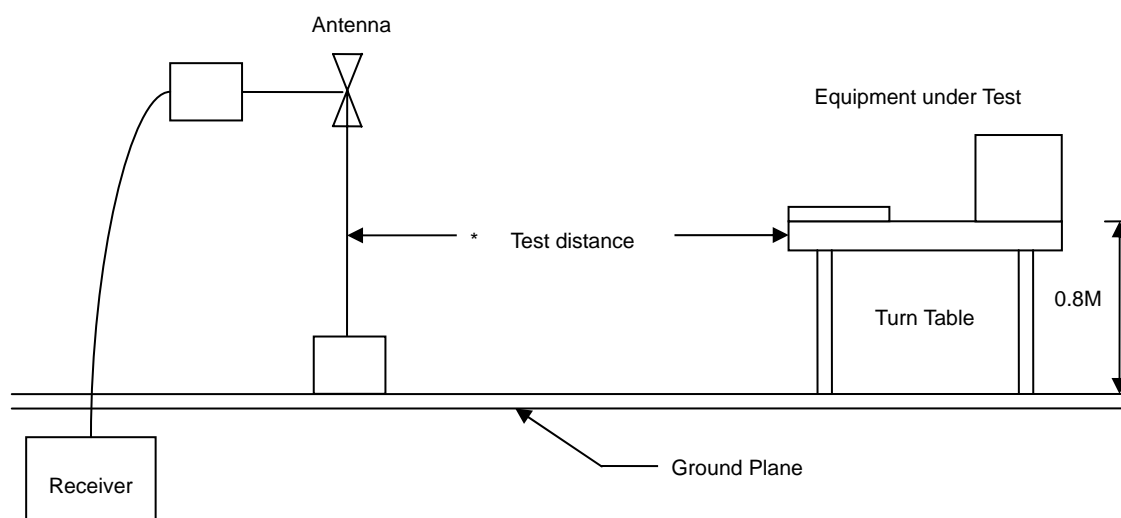
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB beamwidth of the measurement antenna.

### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.



### 6.3. Typical Test Setup Layout of Radiated Emission



### 6.4. Measurement equipment

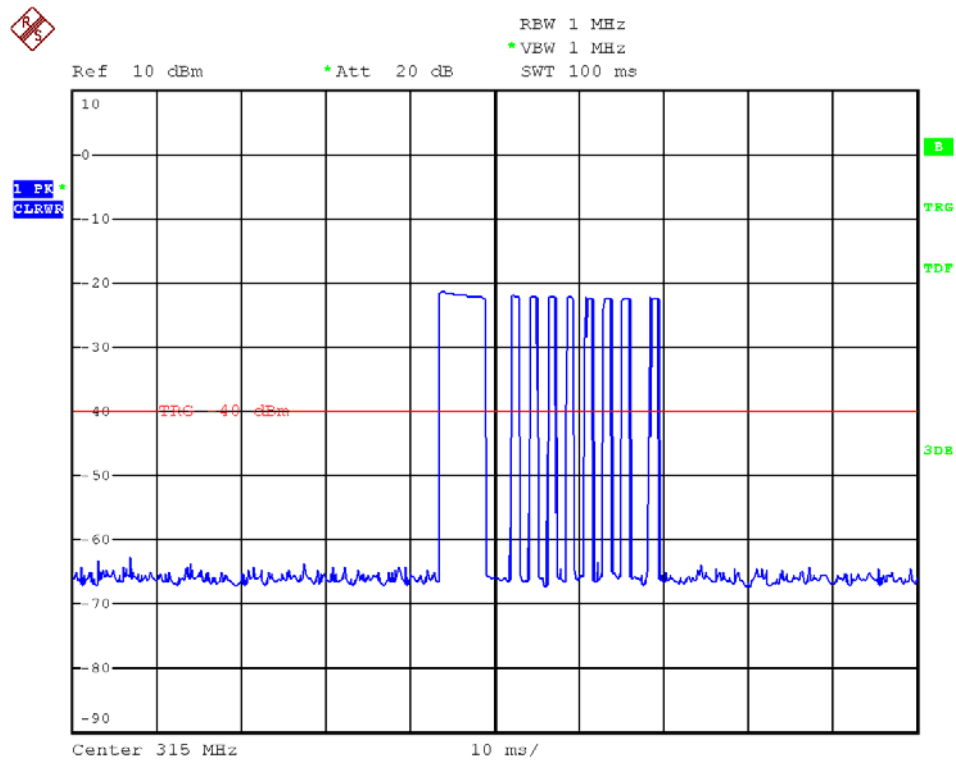
| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|------------------|------------|
| Amplifier            | Agilent      | 8447D     | 2944A10531 | 2011/01/21       | 2012/01/20 |
| Bilog Antenna        | Schaffner    | CBL6112D  | 22242      | 2011/02/09       | 2012/02/08 |
| EMI Receiver         | R&S          | ESCI      | 101200     | 2011/07/26       | 2012/07/25 |
| Spectrum Analyzer    | R&S          | FSP40     | 100047     | 2011/05/05       | 2012/05/04 |
| HORN ANTENNA         | EMCO         | 3115      | 31589      | 2011/05/02       | 2012/05/01 |
| Preamplifier         | Agilent      | 8449B     | 3008A01954 | 2011/03/02       | 2012/03/01 |

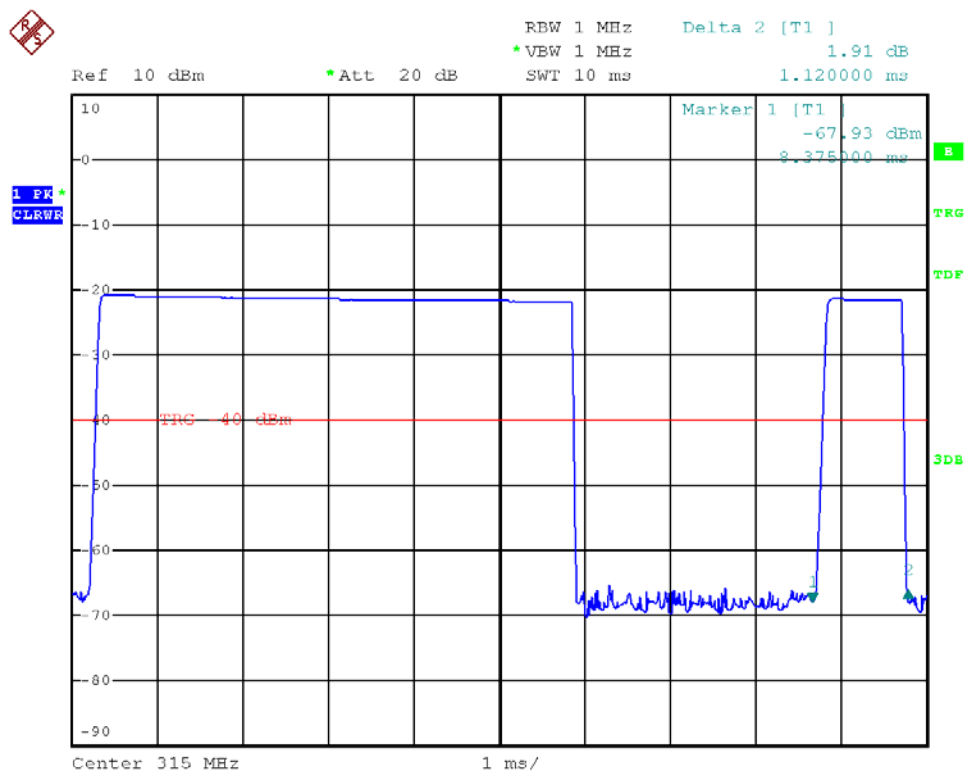
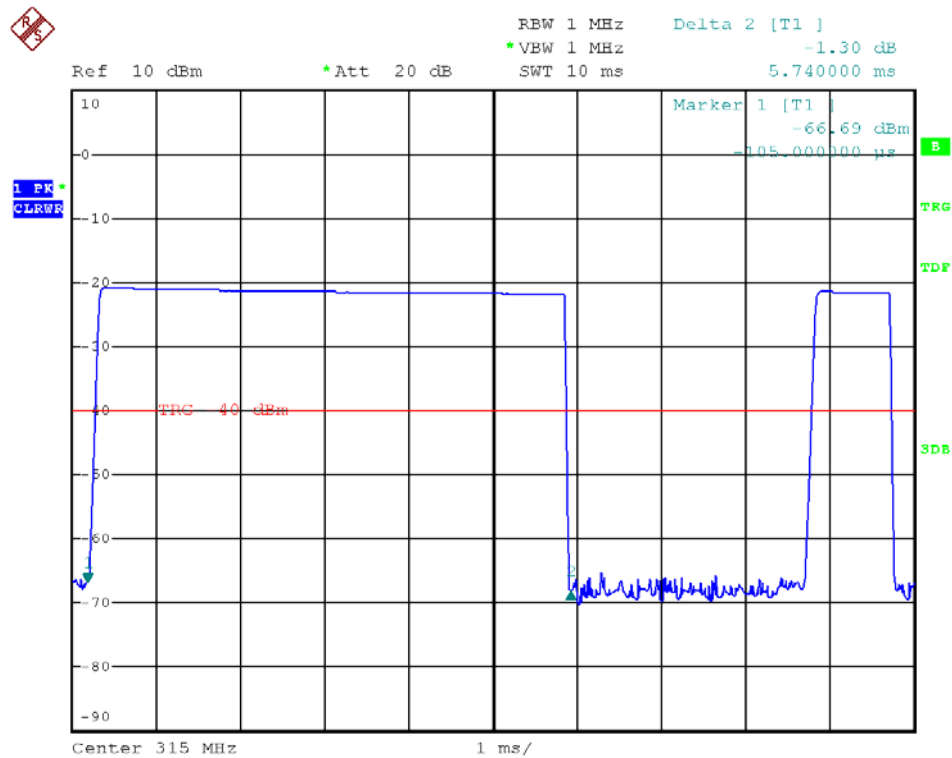


## 6.5. Test Result and Data

### 6.5.1. Duty Factor

$$\begin{aligned}\text{Duty Factor} &= 20\log(\text{total duty} / \text{period of pluse train}) \\ &= 20\log[(5.74\text{ms} \times 1 + 1.12\text{ms} \times 8) / 100\text{ms}] \\ &= -16.65\end{aligned}$$

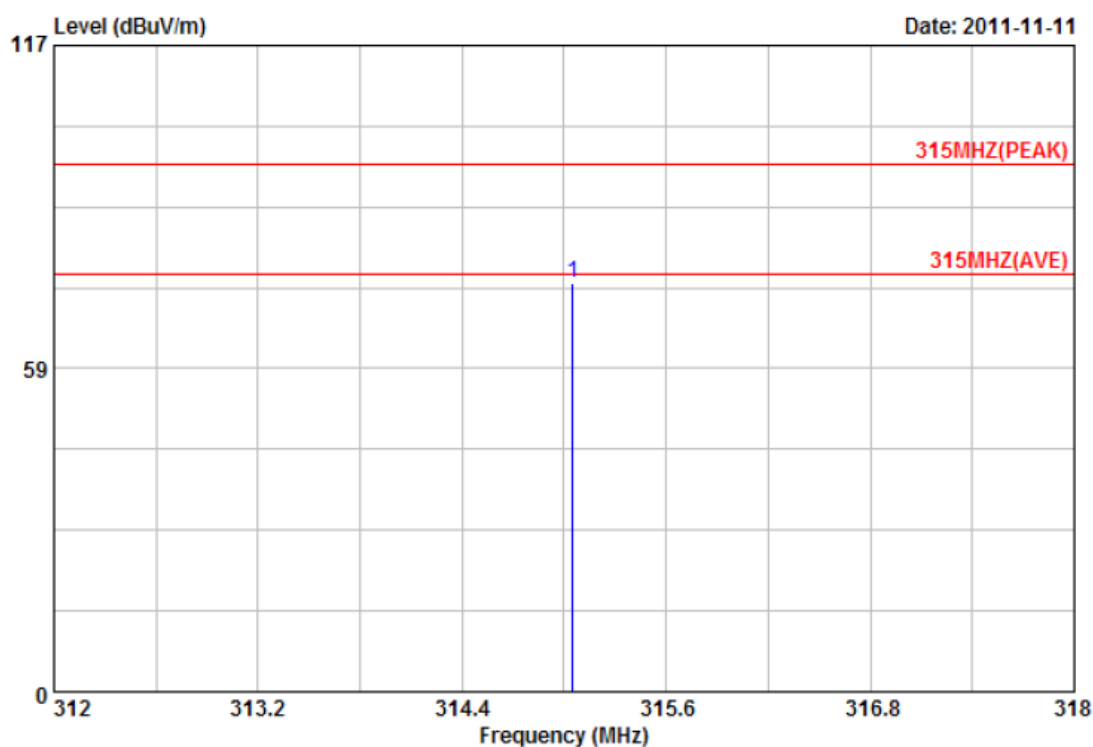






## 6.5.2. Test Result of Fundamental Emission

|                   |                     |                      |            |
|-------------------|---------------------|----------------------|------------|
| Power             | : DC 12V            | Pol/Phase            | : VERTICAL |
| Test Mode         | : Transmit/ Receive | Temperature          | : 28 °C    |
| Operation Channel | : 1                 | Humidity             | : 51 %     |
| Modulation Type   | : ASK               | Atmospheric Pressure | : 1020 hPa |



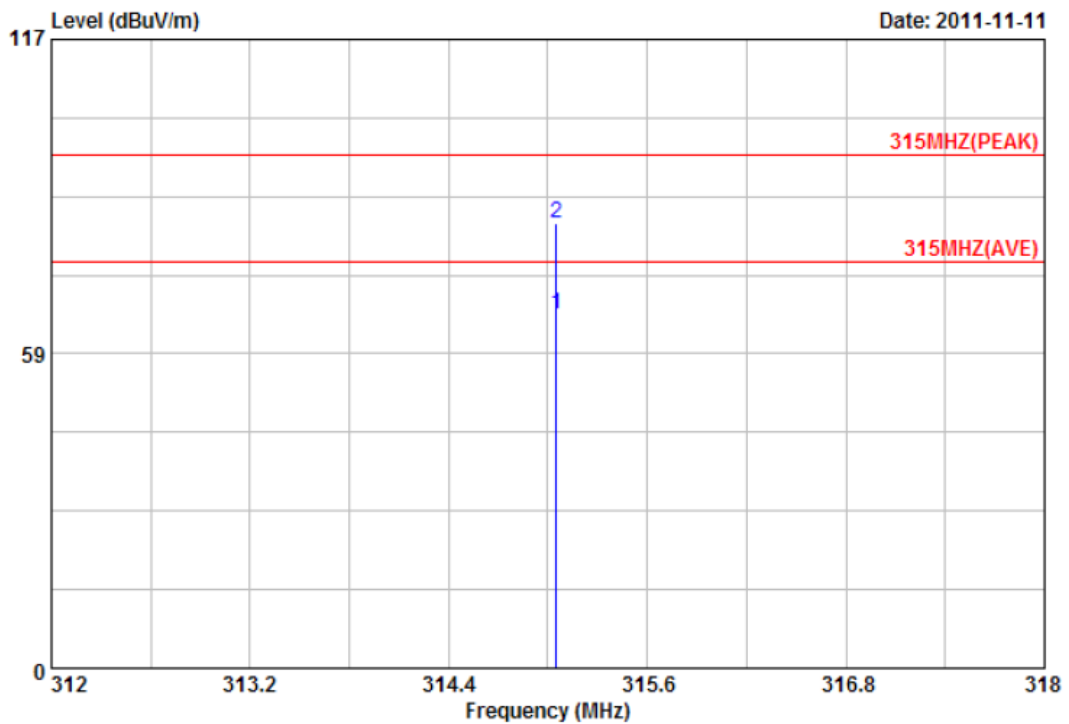
| Item | Freq   | Read Value | Factor | Result | Limit  | Margin | Remark | Ant Pos | Tab Pos |
|------|--------|------------|--------|--------|--------|--------|--------|---------|---------|
|      | MHz    | dBuV       | dB/m   | dBuV/m | dBuV/m | dB     |        | cm      | Deg     |
| 1    | 315.05 | 78.53      | -4.57  | 73.96  | 95.60  | -21.64 | Peak   | 100     | 360     |

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The Average value = Peak value + 20log(Duty cycle)
6. The other emissions is too low to be measured.
7. The data is worse case.



|                   |                     |                      |              |
|-------------------|---------------------|----------------------|--------------|
| Power             | : DC 12V            | Pol/Phase            | : HORIZONTAL |
| Test Mode         | : Transmit/ Receive | Temperature          | : 28 °C      |
| Operation Channel | : 1                 | Humidity             | : 51 %       |
| Modulation Type   | : ASK               | Atmospheric Pressure | : 1020 hPa   |



| Item | Freq   | Read Value | Factor | Result | Limit  | Margin | Remark  | Ant Pos | Tab Pos |
|------|--------|------------|--------|--------|--------|--------|---------|---------|---------|
|      | MHz    | dBuV       | dB/m   | dBuV/m | dBuV/m | dB     |         | cm      | Deg     |
| 1    | 315.05 | 73.41      | -7.43  | 65.98  | 75.60  | -9.62  | Average | 100     | 0       |
| 2    | 315.05 | 90.06      | -7.43  | 82.63  | 95.60  | -12.97 | Peak    | 100     | 0       |

**Notes:**

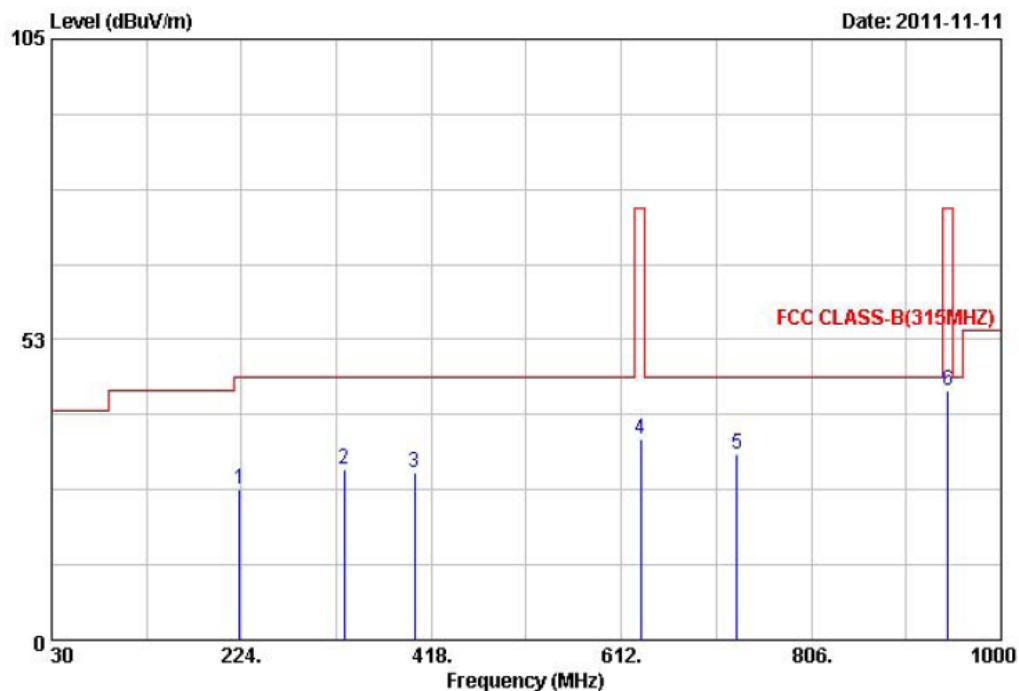
1. Result = Read Value + Factor
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3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The Average value = Peak value + 20log(Duty cycle)
6. The other emissions is too low to be measured.
7. The data is worse case.





## 6.5.3. Test Result of Unwanted Spurious emission

|                   |                     |                      |            |
|-------------------|---------------------|----------------------|------------|
| Power             | : DC 12V            | Pol/Phase            | : VERTICAL |
| Test Mode         | : Transmit/ Receive | Temperature          | : 28 °C    |
| Operation Channel | : 1                 | Humidity             | : 51 %     |
| Modulation Type   | : ASK               | Atmospheric Pressure | : 1021 hPa |



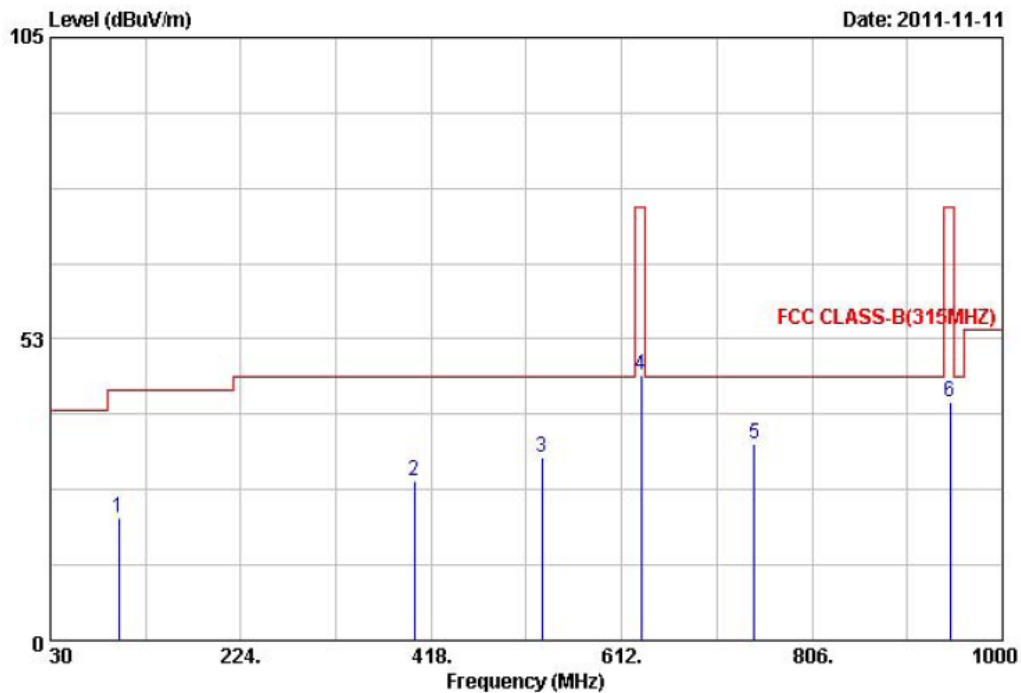
| Item | Freq   | Read Value | Factor | Result | Limit  | Margin | Remark | Ant Pos | Tab Pos |
|------|--------|------------|--------|--------|--------|--------|--------|---------|---------|
|      | MHz    | dBuV       | dB/m   | dBuV/m | dBuV/m | dB     |        | cm      | Deg     |
| 1    | 222.06 | 27.63      | -1.35  | 26.28  | 46.00  | -19.72 | Peak   | 101     | 0       |
| 2    | 328.76 | 34.29      | -4.34  | 29.95  | 46.00  | -16.05 | Peak   | 101     | 0       |
| 3    | 400.54 | 28.75      | 0.35   | 29.10  | 46.00  | -16.90 | Peak   | 101     | 0       |
| 4    | 631.40 | 31.36      | 3.87   | 35.23  | 75.60  | -40.37 | Peak   | 100     | 0       |
| 5    | 730.34 | 21.68      | 10.82  | 32.50  | 46.00  | -13.50 | Peak   | 101     | 0       |
| 6    | 945.68 | 29.53      | 14.16  | 43.69  | 75.60  | -31.91 | Peak   | 100     | 0       |

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



|                   |                     |                      |              |
|-------------------|---------------------|----------------------|--------------|
| Power             | : DC 12V            | Pol/Phase            | : HORIZONTAL |
| Test Mode         | : Transmit/ Receive | Temperature          | : 28 °C      |
| Operation Channel | : 1                 | Humidity             | : 51 %       |
| Modulation Type   | : ASK               | Atmospheric Pressure | : 1020 hPa   |



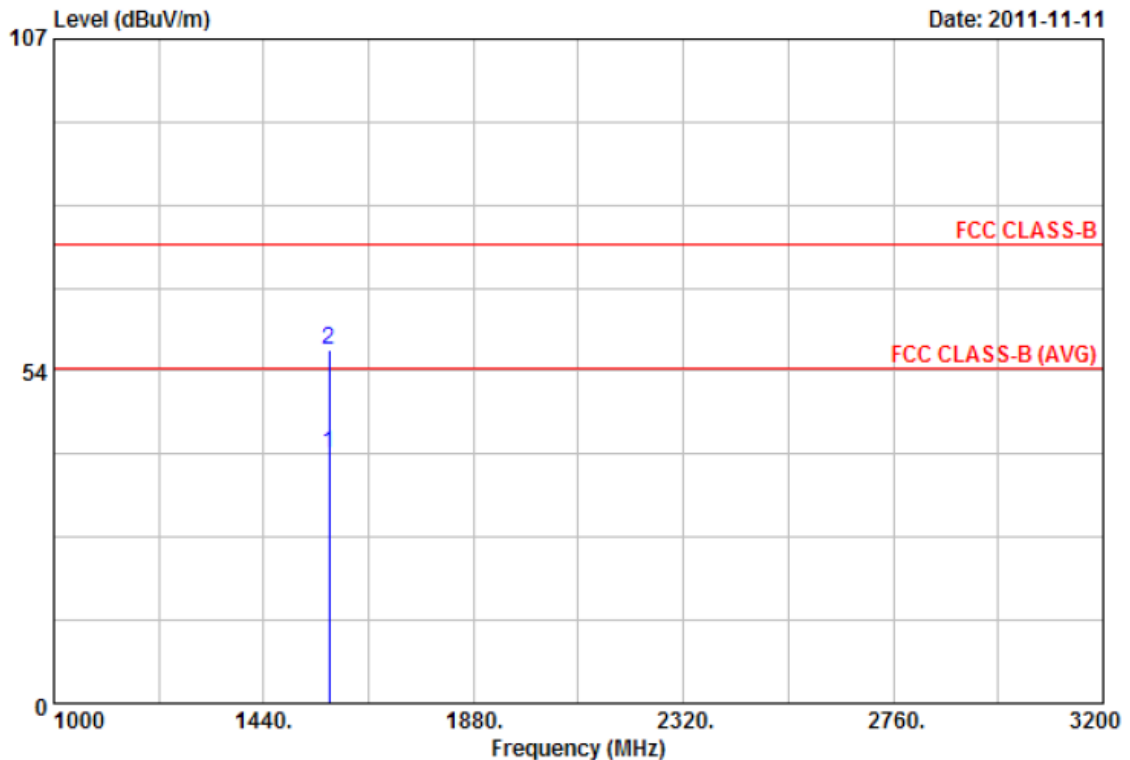
| Item | Freq   | Read Value | Factor | Result | Limit  | Margin | Remark | Ant Pos | Tab Pos |
|------|--------|------------|--------|--------|--------|--------|--------|---------|---------|
|      | MHz    | dBuV       | dB/m   | dBuV/m | dBuV/m | dB     |        | cm      | Deg     |
| 1    | 99.84  | 29.35      | -7.98  | 21.37  | 43.50  | -22.13 | Peak   | 101     | 0       |
| 2    | 400.54 | 27.89      | -0.24  | 27.65  | 46.00  | -18.35 | Peak   | 101     | 0       |
| 3    | 530.52 | 27.24      | 4.59   | 31.83  | 46.00  | -14.17 | Peak   | 101     | 0       |
| 4    | 631.40 | 39.71      | 6.52   | 46.23  | 75.60  | -29.37 | Peak   | 100     | 360     |
| 5    | 746.83 | 26.60      | 7.62   | 34.22  | 46.00  | -11.78 | Peak   | 101     | 0       |
| 6    | 946.65 | 30.41      | 11.23  | 41.64  | 75.60  | -33.96 | Peak   | 100     | 360     |

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



|                   |                     |                      |            |
|-------------------|---------------------|----------------------|------------|
| Power             | : DC 12V            | Pol/Phase            | : VERTICAL |
| Test Mode         | : Transmit/ Receive | Temperature          | : 28 °C    |
| Operation Channel | : 1                 | Humidity             | : 51 %     |
| Modulation Type   | : ASK               | Atmospheric Pressure | : 1021 hPa |



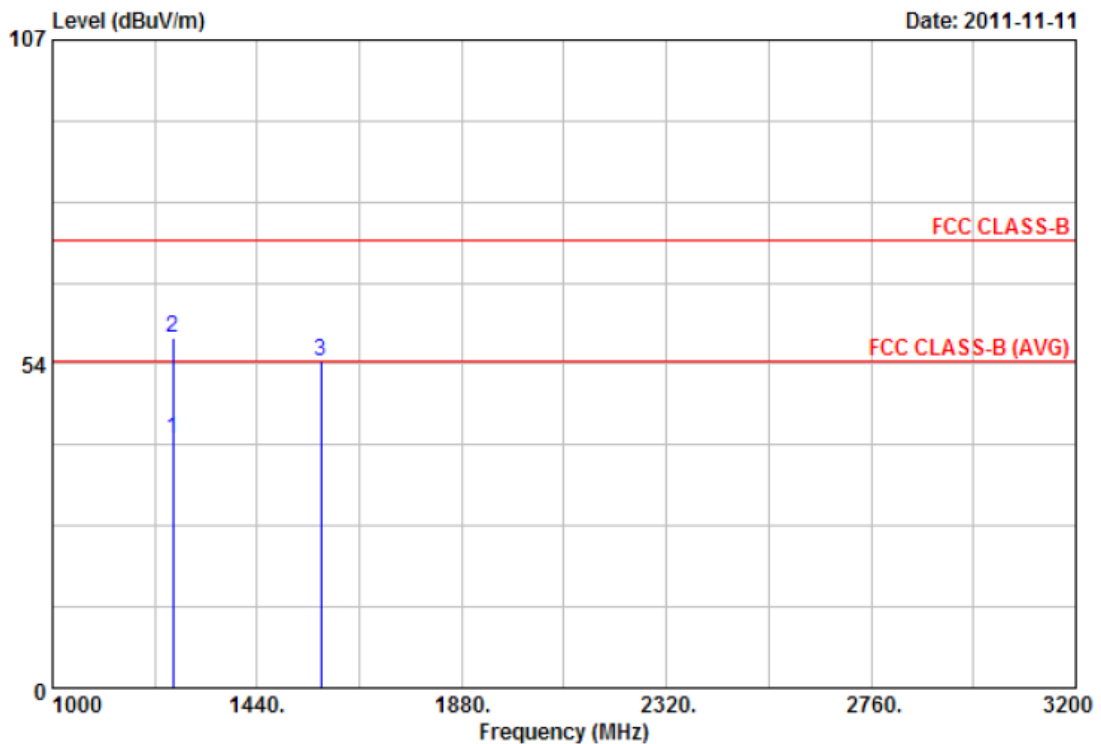
| Item | Freq    | Read Value | Factor | Result | Limit  | Margin | Remark  | Ant Pos | Tab Pos |
|------|---------|------------|--------|--------|--------|--------|---------|---------|---------|
|      | MHz     | dBuV       | dB/m   | dBuV/m | dBuV/m | dB     |         | cm      | Deg     |
| 1    | 1576.40 | 34.70      | 5.61   | 40.31  | 54.00  | -13.69 | Average | 100     | 360     |
| 2    | 1576.40 | 51.35      | 5.61   | 56.96  | 74.00  | -17.04 | Peak    | 100     | 360     |

**Notes:**

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The Average value = Peak value + 20log(Duty cycle)
6. The other emissions is too low to be measured.
7. The data is worse case.



|                   |                     |                      |              |
|-------------------|---------------------|----------------------|--------------|
| Power             | : DC 12V            | Pol/Phase            | : HORIZONTAL |
| Test Mode         | : Transmit/ Receive | Temperature          | : 28 °C      |
| Operation Channel | : 1                 | Humidity             | : 51 %       |
| Modulation Type   | : ASK               | Atmospheric Pressure | : 1021 hPa   |



| Item | Freq    | Read Value | Factor | Result | Limit  | Margin | Remark  | Ant Pos | Tab Pos |
|------|---------|------------|--------|--------|--------|--------|---------|---------|---------|
|      | MHz     | dBuV       | dB/m   | dBuV/m | dBuV/m | dB     |         | cm      | Deg     |
| 1    | 1259.60 | 37.56      | 3.49   | 41.05  | 54.00  | -12.95 | Average | 100     | 360     |
| 2    | 1259.60 | 54.21      | 3.49   | 57.70  | 74.00  | -16.30 | Peak    | 100     | 360     |
| 3    | 1576.40 | 47.22      | 6.58   | 53.80  | 74.00  | -20.20 | Peak    | 100     | 360     |

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The Average value = Peak value + 20log(Duty cycle)
6. The other emissions is too low to be measured.
7. The data is worse case.

Test engineer: Ben

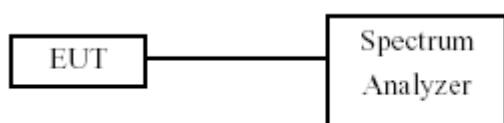


## 7. 20dB Occupied Bandwidth Measurement

### 7.1. Test Procedure

- The EUT placed on the turning table.
- The signal was coupled to the spectrum analyzer through an antenna.
- Set the resolution bandwidth to 100kHz and video bandwidth to 100kHz then select Peak function to scan the channel frequency.
- The 20dB bandwidth was measured and recorded.

### 7.2. Test Setup Layout



### 7.3. Limits of Band Edges Measurement

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for device operating above 70 MHz and above 900 MHz.

| Frequency (MHz) | Limit of 20dB Bandwidth (MHz) |
|-----------------|-------------------------------|
| 315             | 0.7875                        |

### 7.4. Measurement equipment

| Instrument/Ancillary | Model No. | Manufacturer | Serial No. | Calibration Date | Valid Date |
|----------------------|-----------|--------------|------------|------------------|------------|
| Spectrum Analyzer    | FSP40     | R&S          | 10047      | 2011/05/05       | 2012/05/04 |

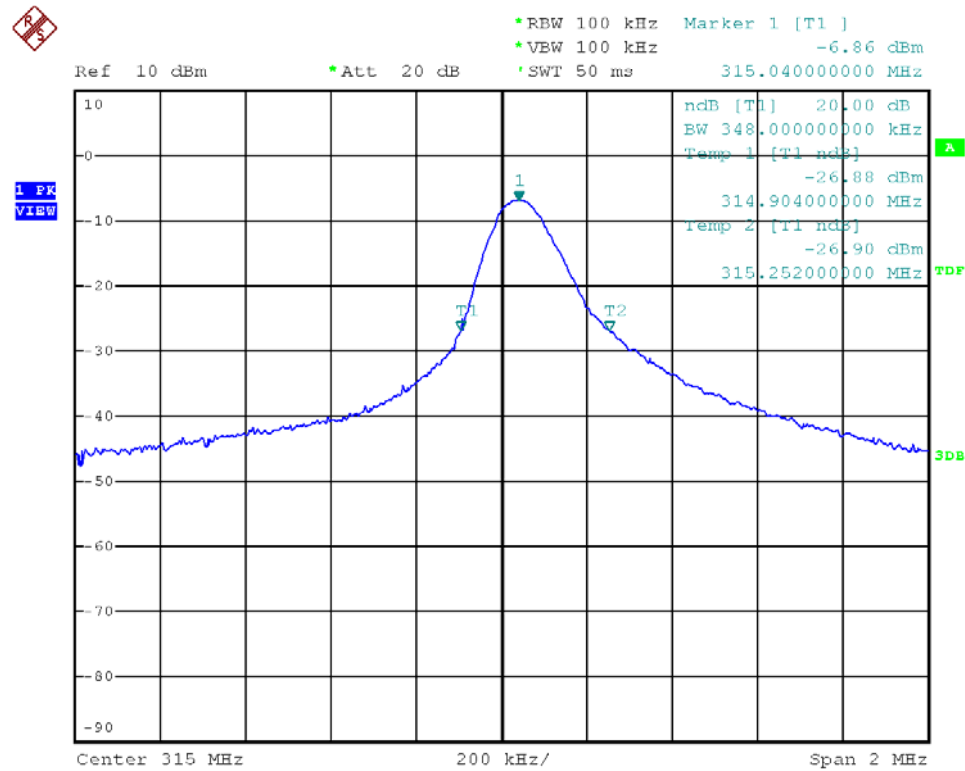
### 7.5. Test Result

Test date : Nov. 14, 2011      Ambient temperature : 28  
Atmospheric pressure : 1020hpa      Relative humidity : 51%

| Frequency (MHz) | 20 dB bandwidth (MHz) | PASS / FAIL |
|-----------------|-----------------------|-------------|
| 315             | 0.348                 | PASS        |



Frequency: 315MHz



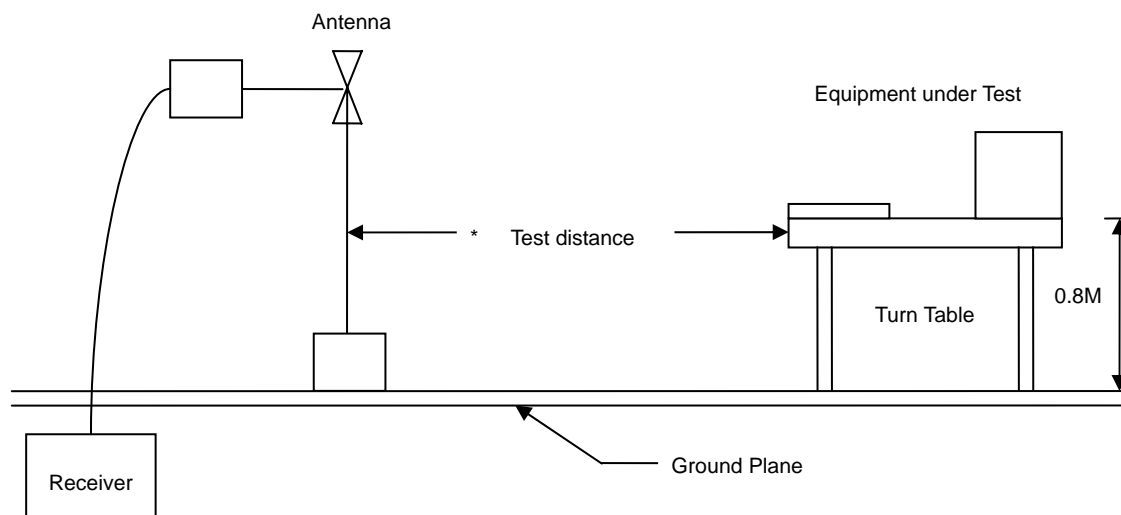


## 8. Transmission Time Control

### 8.1. Test Procedure

1. Set up the EUT in the state of Transmitter.
2. Set up the Spectrum, judge whether to accord with the regulation demand or not.

### 8.2. Test Setup Layout



### 8.3. Test Limit

Limits: A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

### 8.4. Measurement equipment

| Instrument/Ancillary | Model No. | Manufacturer | Serial No. | Calibration Date | Valid Date |
|----------------------|-----------|--------------|------------|------------------|------------|
| Spectrum Analyzer    | FSP40     | R&S          | 10047      | 2011/05/05       | 2012/05/04 |

### 8.5. Test Result

Test date : Nov. 14, 2011      Ambient temperature : 28  
Atmospheric pressure : 1020hpa      Relative humidity : 51%

| Frequency (MHz) | Operation time(Sec.) | Limit(Sec.) | PASS / FAIL |
|-----------------|----------------------|-------------|-------------|
| 315             | 0.16                 | 5.00        | PASS        |



Frequency: 315MHz

