

FCC RADIO TEST REPORT

FCC ID: 2AAO3C12TX

Product : fireplace rmote controller

Trade Name : N/A

Model Name : C12

Serial Model : N/A

Report No. : 2013DG0720221F

Prepared for

Changsha Micro-control Software Technology Co.,Ltd.
Room 14021, 89# Tianxin Plaza, East Jiefang Road, Changsha, Hunan,
China.

Prepared by

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Bao'an District, Shenzhen P.R. China.

TEST RESULT CERTIFICATION

Applicant's name : Changsha Micro-control Software Technology Co.,Ltd.
Address : Room 14021, 89# Tianxin Plaza, East Jiefang Road, Changsha, Hunan, China.

Manufacture's Name..... : Changsha Yuanben Technology Development Co.,Ltd.
Address : Room 14021, 89# Tianxin Plaza, East Jiefang Road, Changsha, Hunan, China.

Product description

Product Name..... : fireplace rmote controller
Model and/or type reference : C12
Serial Model : N/A

Standards : FCC Part15.231:2012

Test procedure ANSI C63.4-2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :

Date (s) of performance of tests : 17 Jul. 2013 ~26 Jul. 2013

Date of Issue..... : 26 Jul. 2013

Test Result..... : **Pass**

Testing Engineer : Eric Wang
(Eric Wang)

Technical Manager : Jerry You
(Jerry You)

Authorized Signatory : Jack Yu
(Jack yu)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15, Subpart C (15.231) | | | |
|--------------------------------|----------------------------|----------|---------|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | N/A | Note(1) |
| 15.203 | Antenna Requirement | Pass | |
| 15.231 | Radiated Spurious Emission | Pass | |
| 15.231 | Occupied Bandwidth | Pass | |
| 15.231 | Transmitter Timeout | Pass | |

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|------------------------------|---------------------------|
| 1 | Conducted Emission Test | $\pm 1.38\text{dB}$ |
| 2 | RF power,conducted | $\pm 0.16\text{dB}$ |
| 3 | Spurious emissions,conducted | $\pm 0.21\text{dB}$ |
| 4 | All emissions,radiated(<1G) | $\pm 4.68\text{dB}$ |
| 5 | All emissions,radiated(>1G) | $\pm 4.89\text{dB}$ |
| 6 | Temperature | $\pm 0.5^{\circ}\text{C}$ |
| 7 | Humidity | $\pm 2\%$ |

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|---------------------|---|------------------------|
| Equipment | fireplace rmote controller | |
| Trade Name | N/A | |
| Model Name | C12 | |
| Serial Model | N/A | |
| Model Difference | N/A | |
| Product Description | The EUT is a fireplace rmote controller | |
| | Product Type | Remote Control |
| | Operation Frequency: | 303.825MHz |
| | Modulation Type: | ASK |
| | Number Of Channel | 1CH. |
| | Antenna Designation: | Printed antenna |
| | Antenna Gain(Peak) | 0 dBi |
| | Output Power: | 72.42 dBuV/m (AV Max.) |
| Channel List | N/A | |
| Adapter | N/A | |
| Battery | DC 3V | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Table for Filed Antenna

| Ant | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|-----|-------|------------|--------------|-----------|------------|---------|
| 1 | N/A | N/A | PCB Antenna | NA | 0 | Antenna |

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

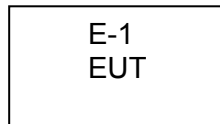
| Pretest Mode | Description |
|--------------|-------------|
| Mode 1 | TX |

| For Conducted Emission | |
|------------------------|-------------|
| Final Test Mode | Description |
| Mode 1 | N/A |

| For Radiated Emission | |
|-----------------------|-------------|
| Final Test Mode | Description |
| Mode 1 | TX |

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------------------------|-----------|----------------|------------|------|
| E-1 | fireplace remote controller | N/A | C12 | N/A | EUT |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|--------------------|--------------|-------------|--------------|------------------|------------------|--------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | MY45108040 | 2013.07.06 | 2014.07.05 | 1 year |
| 2 | Test Receiver | R&S | ESPI | 101318 | 2013.06.07 | 2014.06.06 | 1 year |
| 3 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2013.07.06 | 2014.07.05 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2013.06.07 | 2014.06.06 | 1 year |
| 5 | Spectrum Analyzer | ADVANTEST | R3132 | 150900201 | 2013.06.07 | 2014.06.06 | 1 year |
| 6 | Horn Antenna | EM | EM-AH-10180 | 2011071402 | 2013.07.06 | 2014.07.05 | 1 year |
| 7 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2013.07.06 | 2014.07.05 | 1 year |
| 8 | Amplifier | EM | EM-30180 | 060538 | 2012.12.22 | 2013.12.21 | 1 year |
| 9 | Loop Antenna | ARA | PLA-1030/B | 1029 | 2013.06.07 | 2014.06.06 | 1 year |
| 10 | Power Meter | R&S | NRVS | 100696 | 2013.07.06 | 2014.07.05 | 1 year |
| 11 | Power Sensor | R&S | URV5-Z4 | 0395.1619.05 | 2013.07.06 | 2014.07.05 | 1 year |

Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-----------------------|--------------|----------|------------|------------------|------------------|--------------------|
| 1 | Test Receiver | R&S | ESCI | 101160 | 2013.06.07 | 2014.06.06 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2012.08.24 | 2013.08.23 | 1 year |
| 3 | LISN | EMCO | 3816/2 | 00042990 | 2012.08.24 | 2013.08.23 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2013.06.07 | 2014.06.06 | 1 year |
| 5 | Passive Voltage Probe | R&S | ESH2-Z3 | 100196 | 2013.06.07 | 2014.06.06 | 1 year |
| 6 | Absorbing clamp | R&S | MOS-21 | 100423 | 2013.06.07 | 2014.06.06 | 1 year |

3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.2 EUT ANTENNA

The EUT antenna is integral Antenna. It comply with the standard requirement.

3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | | Standard |
|-----------------|----------------|---------|----------------|-----------|----------|
| | Quasi-peak | Average | Quasi-peak | Average | |
| 0.15 -0.5 | | | 66 - 56 * | 56 - 46 * | CISPR |
| 0.50 -5.0 | | | 56.00 | 46.00 | CISPR |
| 5.0 -30.0 | | | 60.00 | 50.00 | CISPR |

| | | | | | |
|-----------|--|--|-----------|-----------|--------|
| 0.15 -0.5 | | | 66 - 56 * | 56 - 46 * | LP002. |
| 0.50 -5.0 | | | 56.00 | 46.00 | LP002. |
| 5.0 -30.0 | | | 60.00 | 50.00 | LP002. |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

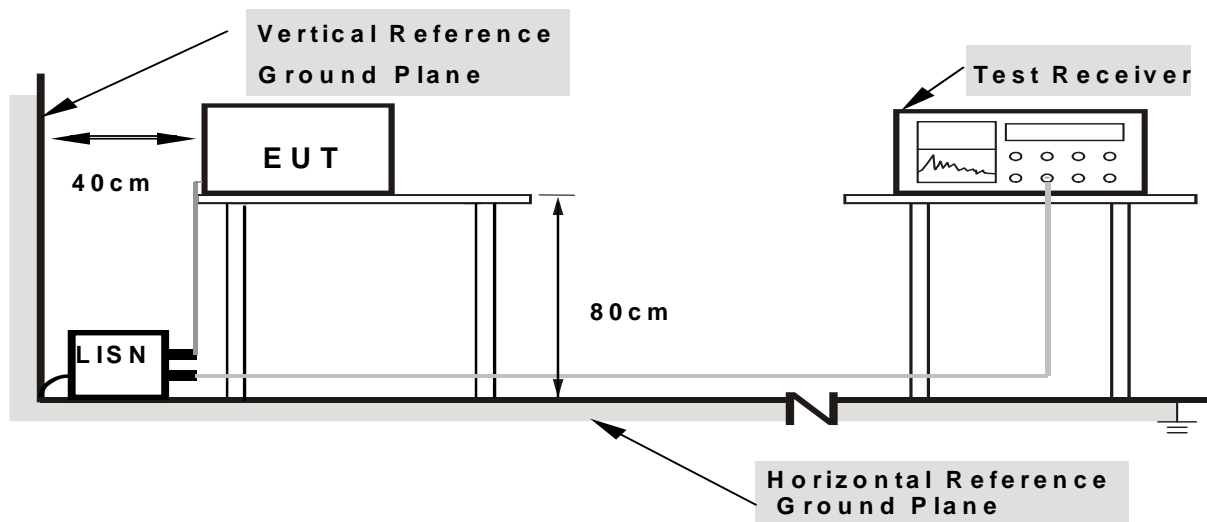
3.3.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.2.5 TEST RESULT

| | | | |
|----------------|----------------------------|---------------------|-----|
| EUT : | fireplace rmote controller | Model Name. : | C12 |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | N/A |
| Test Voltage : | N/A | Test Mode : | N/A |

3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.231)

| Fundamental Frequency (MHz) | Field Strength of fundamental (microvolts/meter) | Field Strength of Unwanted Emissions (microvolts/meter) |
|--------------------------------|--|---|
| 40.66 - 40.70 | 2250.00 | 225.00 |
| 70 - 130 | 1250.00 | 125.00 |
| 130 - 174 | 1,250 to 3,750 ** | 125 to 375 ** |
| 174 - 260 | 3750.00 | 375.00 |
| 260 - 470 | 3,750 to 12,500 ** | 375 to 1,250 ** |
| Above 470 | 12500.00 | 1250.00 |

Notes:

- (1) ** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 93 Section 15.209, whichever limit permits a higher field strength.

| Spectrum Parameter | Setting |
|---------------------------------------|-----------------------|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

3.4.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

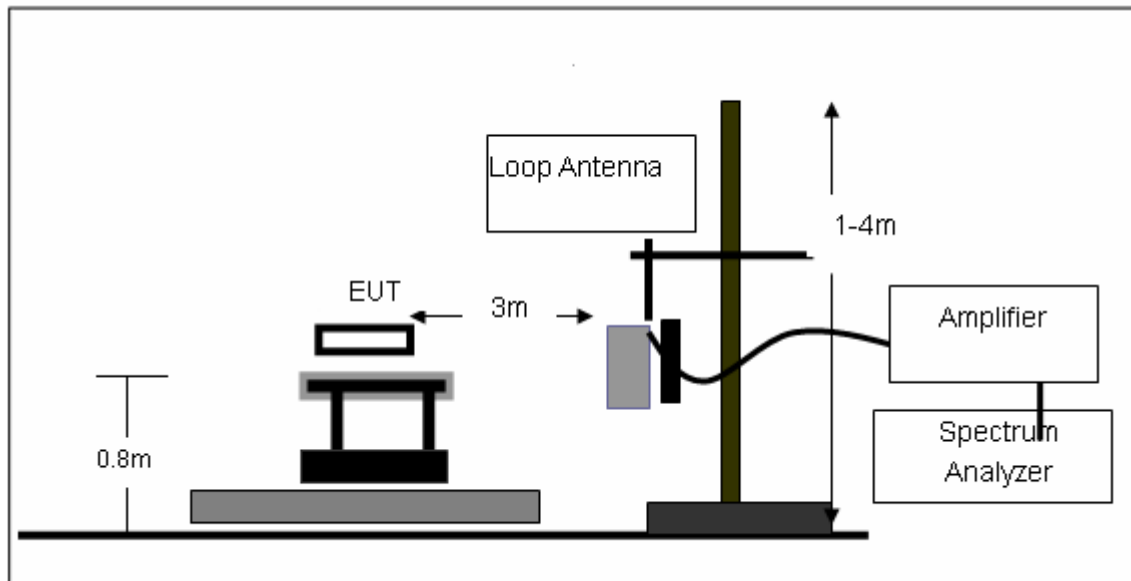
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.4.3 DEVIATION FROM TEST STANDARD

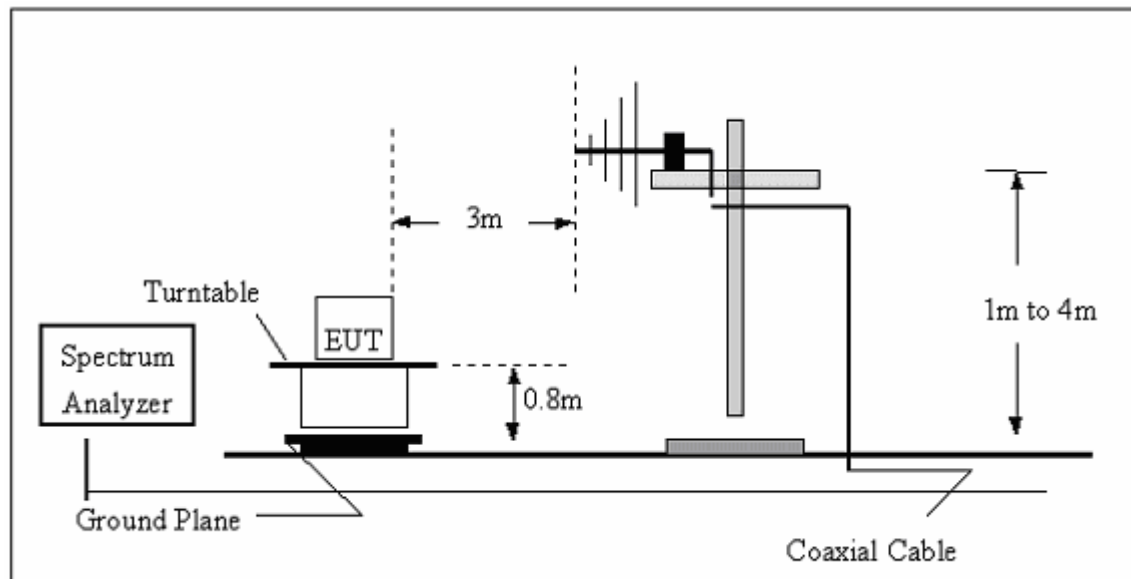
No deviation

3.4.4 TEST SETUP

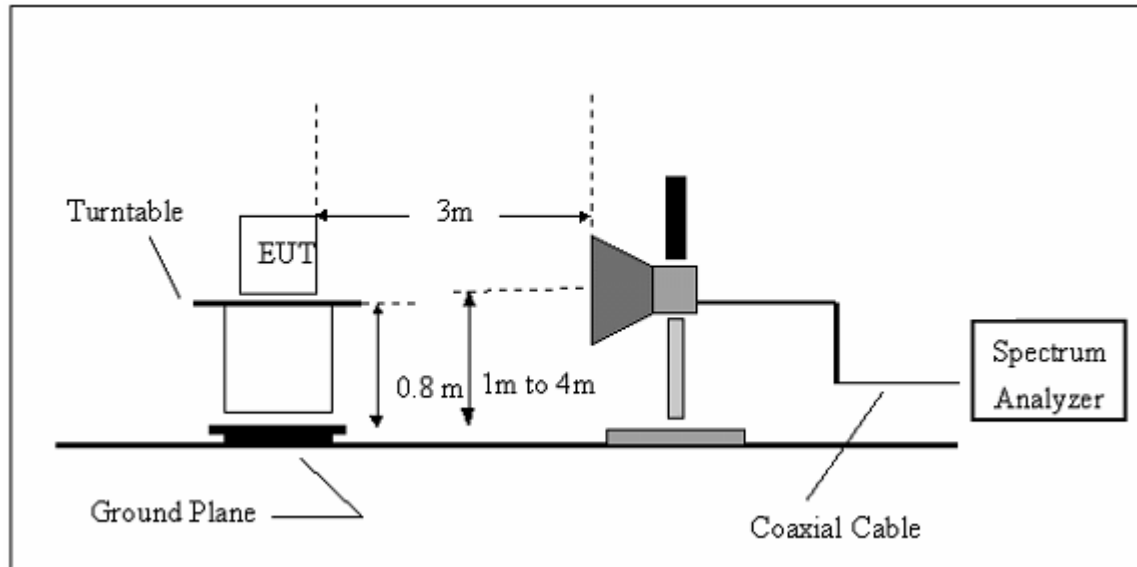
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.4.5 TEST RESULTS (BELOW 30MHz)

| | | | |
|---------------|-----------------------------|---------------------|-------|
| EUT : | fireplace remote controller | Model Name. : | C12 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3V |
| Test Mode : | TX | Polarization : | -- |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| -- | -- | -- | -- | PASS |
| -- | -- | -- | -- | PASS |

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

The duty cycle is simply the on time divided by the period:

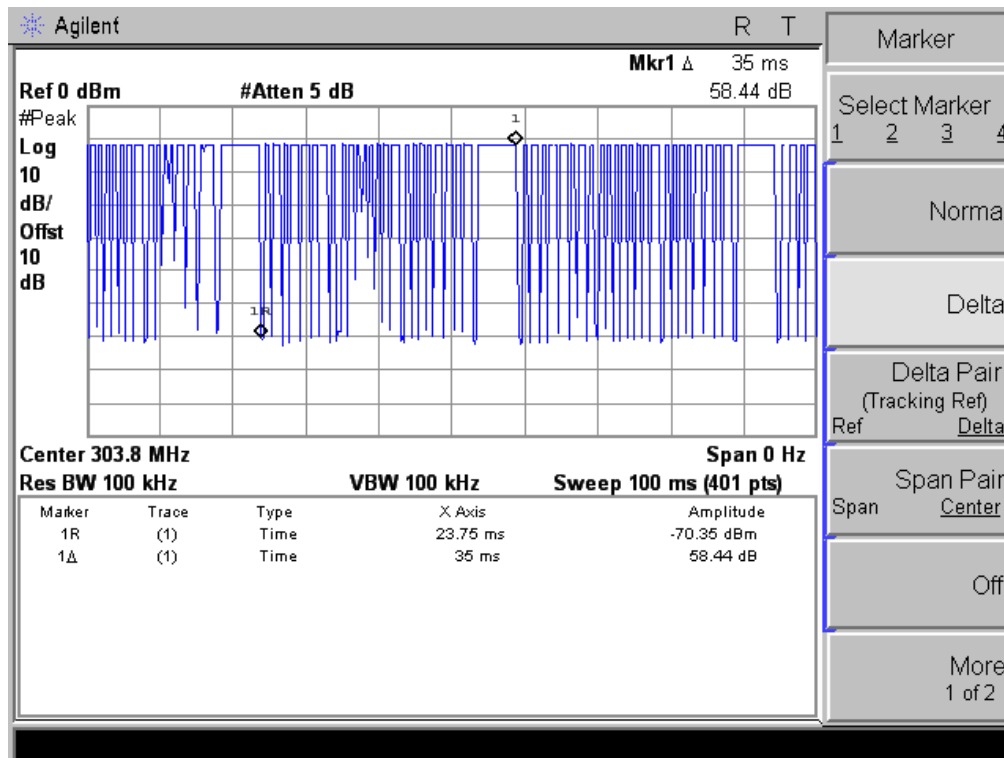
The duration of one cycle = 35ms

Effective period of the cycle = $(16 \times 0.45) + (8 \times 1) + (1 \times 4.95)$ ms = 20.15ms

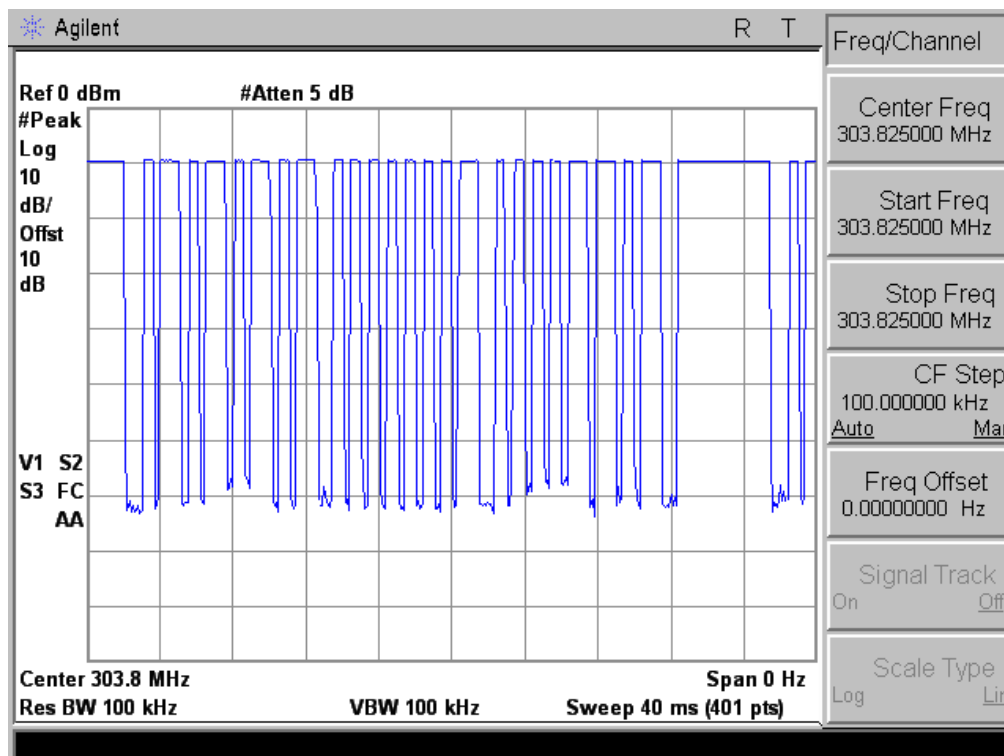
DC = 20.15ms/35ms = 0.576

Therefore, the average factor is found by $20\log 0.576 = -4.79\text{dB}$

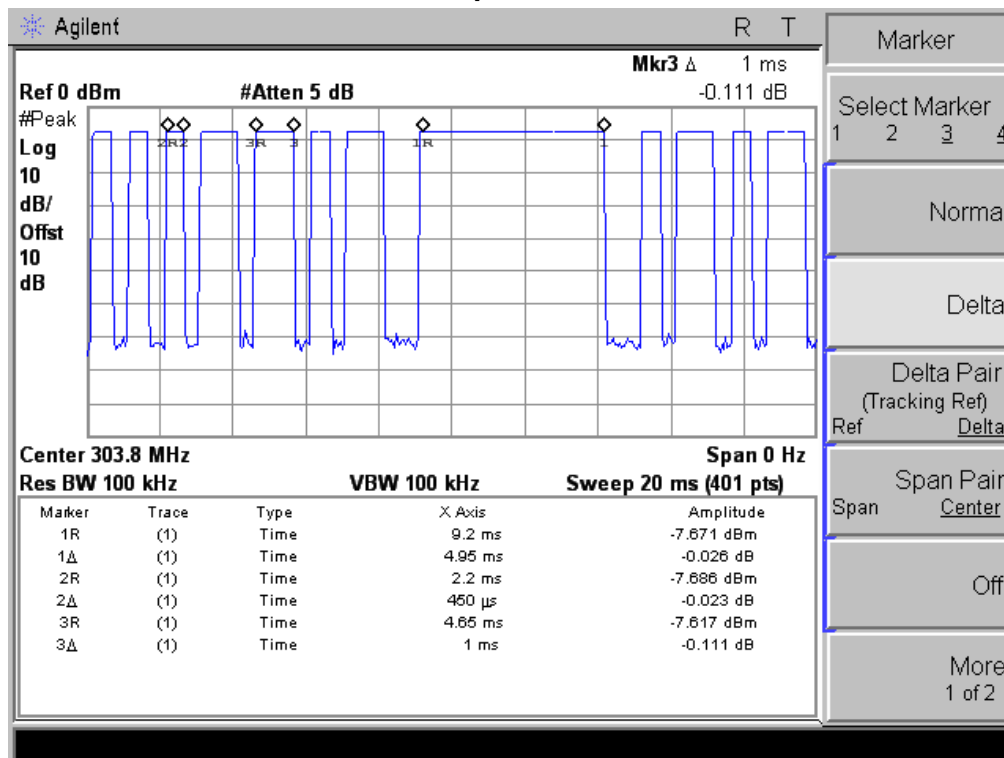
100ms



40ms



pulse



| | | | |
|---------------|-----------------------------|---------------------|------------|
| EUT : | fireplace remote controller | Model Name : | C12 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3V |
| Test Mode : | TX | Polarization : | Horizontal |

| Frequency | Average Factor | Field Strength | Field Strength | Limit(PK) | Limit(AV) | State |
|-----------|----------------|----------------|----------------|-----------|-----------|-------|
| MHz | dB | dBuV/m (PK) | dBuV/m (AV) | dBuV/m | dBuV/m | |
| 303.825 | -4.79 | 76.32 | 71.53 | 94.93 | 74.93 | pass |
| 607.651 | -4.79 | 57.46 | 52.67 | 74.93 | 54.93 | pass |
| 911.479 | -4.79 | 57.24 | 52.45 | 74.93 | 54.93 | pass |
| 1215.302 | -4.79 | 49.46 | 44.67 | 74.00 | 54.00 | pass |
| 1519.128 | -4.79 | 44.83 | 40.04 | 74.00 | 54.00 | pass |
| -- | -- | -- | -- | 74.00 | 54.00 | pass |

| | | | |
|---------------|-----------------------------|---------------------|----------|
| EUT : | fireplace remote controller | Model Name : | C12 |
| Temperature : | 20 °C | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3V |
| Test Mode : | TX | Polarization : | Vertical |

| Frequency | Average Factor | Field Strength | Field Strength | Limit(PK) | Limit(AV) | State |
|-----------|----------------|----------------|----------------|-----------|-----------|-------|
| MHz | dB | dBuV/m (PK) | dBuV/m (AV) | dBuV/m | dBuV/m | |
| 303.825 | -4.79 | 77.21 | 72.42 | 94.93 | 74.93 | pass |
| 607.651 | -4.79 | 55.86 | 51.07 | 74.93 | 54.93 | pass |
| 911.479 | -4.79 | 54.73 | 49.94 | 74.93 | 54.93 | pass |
| 1215.302 | -4.79 | 50.49 | 45.7 | 74.00 | 54.00 | pass |
| 1519.128 | -4.79 | 45.22 | 40.43 | 74.00 | 54.00 | pass |
| -- | -- | -- | -- | 74.00 | 54.00 | pass |

NOTE:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. *: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

3. FCC Limit for Average Measurement = $41.6667(303.825)-7083.3333 = 5576.0518\mu\text{V/m}$
 $= 74.93\text{dBuV/m}$

4. $1/\text{PW} = 1/0.45\text{ms} = 2.2 < \text{RBW}(120\text{KHz})$, PDCF is not needed

4. BANDWIDTH TEST

4.1 TEST PROCEDURE

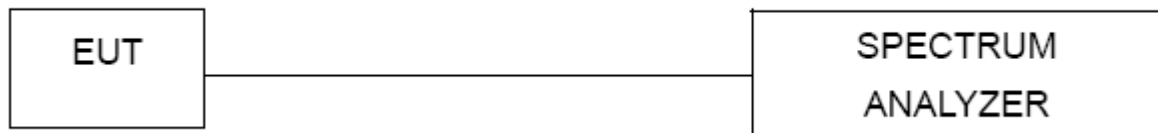
The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Limit: $303.825\text{MHz} \times 0.25\% = 75.96\text{KHz}$

4.2 DEVIATION FROM STANDARD

No deviation.

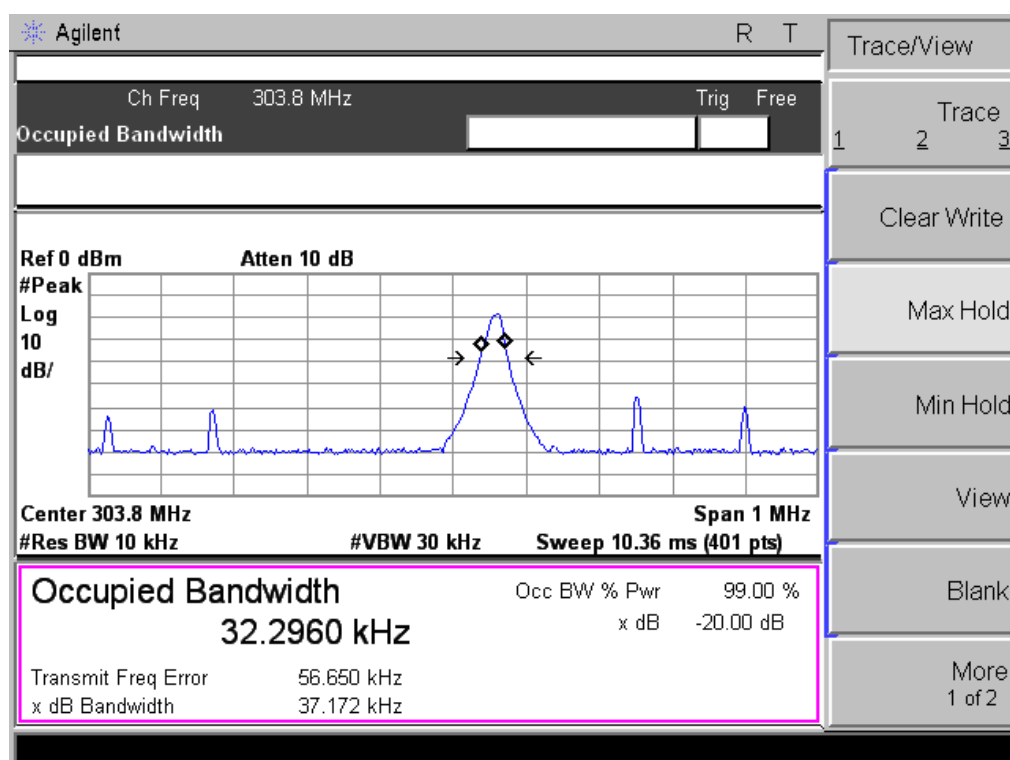
4.3 TEST SETUP



4.4 TEST RESULTS

| | | | |
|---------------|----------------------------|---------------------|-------|
| EUT : | fireplace rmote controller | Model Name : | C12 |
| Temperature : | 26 °C | Relative Humidity : | 53% |
| Pressure : | 1020 hPa | Test Power : | DC 3V |
| Test Mode : | TX | | |

| Test Channel | Frequency (MHz) | 20 dBc Bandwidth (kHz) | Limit (kHz) |
|--------------|-----------------|------------------------|-------------|
| CH01 | 303.825 | 37.172 | 75.96 |



5. TRANSMITTER TIMEOUT

5.1 REQUIREMENTS

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

Result: The EUT has a manually activated transmitter, please refer to below detail data

- 2 A transmitter activated automatically shall cease transmission within 5 seconds after activation.

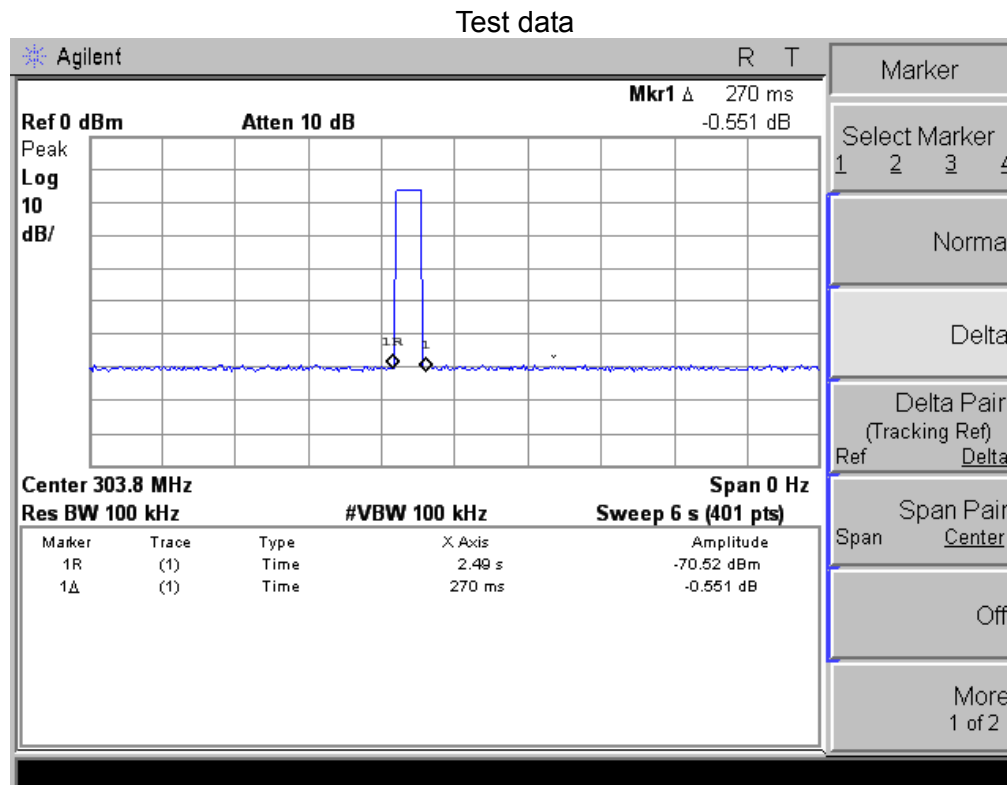
Result: The EUT does not have a automatically activated transmitter

- 3 Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour

Result: The EUT does not employ periodic transmission.

- 4 Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

Result: The section is not applicable to EUT.



| THE DURATION OF EACH TRANSMISSION | LIMIT | RESULT |
|-----------------------------------|-------|--------|
| 0.27s | <5s | PASS |

6. EUT TEST PHOTO**Radiated Measurement Photos**