Microtest
微测检测

# Test Report

**FCC ID:2AKBV-S11**

Date of issue: Jul. 03, 2017

| | |
|---|---|
| Report Number: | MTi170912E032 |
| Sample Description: | Remote Control |
| Model(s): | S1 |
| Applicant: | POS International Limited |
| Address: | office 3A,12/F, Kaiser centre, No.18 centre street, Sai ying pun HK |
| Date of Test: | Jun. 21, 2017 – Jul. 03, 2017 |

Shenzhen Microtest Co., Ltd.
http://www.mtitest.com

# TEST RESULT CERTIFICATION

| | |
|---|---|
| **Applicant's name** ..... : | **POS International Limited** |
| Address ..... : | office 3A,12/F, Kaiser centre, No.18 centre street, Sai ying pun HK |
| **Manufacture's Name** ..... : | **SHENZHEN AIDAXING ELECTRONIC TECHNOLOGY CO., LTD.** |
| Address ..... : | 2ND FLOOR, BLDG 24, XITIAN 3RD INDUSTRIAL ZONE, GONGMING, GUANGMING DISTRICT, SHENZHEN, CHINA |
| **Product description** | |
| Product name ..... : | Remote Control |
| Model and/or type reference : | S1 |
| Serial Model ..... : | N/A |
| **Standards** ..... : | FCC Part15.249 |
| Test procedure..... : | ANSI C63.10-2013 |

This device described above has been tested by Shenzhen Toby Technology Co., Ltd. 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.

Tested by: Demi Mu

Demi Mu Jul. 03, 2017

Reviewed by: Smith Chen

Smith Chen Jul. 03, 2017

Approved by: Tom Xue

Tom Xue Jul. 03, 2017

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.249) , Subpart C | | | |
|---|---|---|---|
| Standard Section | Test Item | Judgment | Remark |
| 15.203/15.249 | Antenna Requirement | PASSED | |
| 15.207 | Conducted Emission | PASSED | |
| 15.249(a)/15.205 | the field strength of emissions | PASSED | |
| 15.215 | 20dB Occupied Bandwidth | PASSED | |
| 15.249(d) | Band Edge | PASSED | |

NOTE:

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

## 1.1 TEST FACILITY

Shenzhen Toby Technology Co., Ltd.
Add.: 10/F.,A Block,Jiada R&D Bldg.,No.5 Songpingshan, Road, Science&Technology Park, Shenzhen, 518057
FCC Registration No.:811562

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**，where expended 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 | ±1.38dB |
| 2 | RF power,conducted | ±0.16dB |
| 3 | Spurious emissions,conducted | ±0.21dB |
| 4 | All emissions,radiated(<1G) | ±4.68dB |
| 5 | All emissions,radiated(>1G) | ±4.89dB |
| 6 | Temperature | ±0.5°C |
| 7 | Humidity | ±2% |

# 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Equipment | Remote Control |
| Trade Name | N/A |
| Model Name | S1 |
| Serial Model | N/A |
| Model Difference | N/A |
| Product Description | The EUT is a Remote Control<br>Operation Frequency: 2402-2480MHz<br>Modulation Type: GFSK<br>Bit Rate of Transmitter 2Mbps<br>Number Of Channel 79CH<br>Antenna Designation: Please see Note 3.<br>Antenna Gain (dBi) 0dBi<br>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. |
| Channel List | Please refer to the Note 2. |
| Adapter | N/A |
| Battery | DC 3.7V 500mAh |
| Connecting I/O Port(s) | Please refer to the User's Manual |

Note:

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

2. Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---|---|---|---|---|---|
| 00 | 2402 | 27 | 2429 | 54 | 2456 |
| 01 | 2403 | 28 | 2430 | 55 | 2457 |
| 02 | 2404 | 29 | 2431 | 56 | 2458 |
| 03 | 2405 | 30 | 2432 | 57 | 2459 |
| 04 | 2406 | 31 | 2433 | 58 | 2460 |
| 05 | 2407 | 32 | 2434 | 59 | 2461 |
| 06 | 2408 | 33 | 2435 | 60 | 2462 |
| 07 | 2409 | 34 | 2436 | 61 | 2463 |
| 08 | 2410 | 35 | 2437 | 62 | 2464 |
| 09 | 2411 | 36 | 2438 | 63 | 2465 |
| 10 | 2412 | 37 | 2439 | 64 | 2466 |
| 11 | 2413 | 38 | 2440 | 65 | 2467 |
| 12 | 2414 | 39 | 2441 | 66 | 2468 |
| 13 | 2415 | 40 | 2442 | 67 | 2469 |
| 14 | 2416 | 41 | 2443 | 68 | 2470 |
| 15 | 2417 | 42 | 2444 | 69 | 2471 |
| 16 | 2418 | 43 | 2445 | 70 | 2472 |
| 17 | 2419 | 44 | 2446 | 71 | 2473 |
| 18 | 2420 | 45 | 2447 | 72 | 2474 |
| 19 | 2421 | 46 | 2448 | 73 | 2475 |
| 20 | 2422 | 47 | 2449 | 74 | 2476 |
| 21 | 2423 | 48 | 2450 | 75 | 2477 |
| 22 | 2424 | 49 | 2451 | 76 | 2478 |
| 23 | 2425 | 50 | 2452 | 77 | 2479 |
| 24 | 2426 | 51 | 2453 | 78 | 2480 |
| 25 | 2427 | 52 | 2454 | | |
| 26 | 2428 | 53 | 2455 | | |
| Remark: Channel 0, 39 &78 selected for GFSK | | | | | |

3. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|---|---|---|---|---|---|---|
| A | N/A | N/A | Internal antenna | / | 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 | GFSK CH1/CH40/CH79 |
| Mode 2 | TX Mode |

| For Conducted Emission | |
|---|---|
| Final Test Mode | Description |
| Mode 2 | TX Mode |

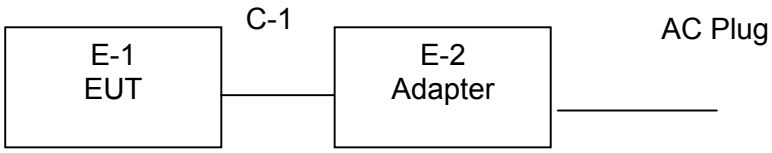
| For Radiated Emission | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | GFSK CH1/CH40/CH79 |

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 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 | Brand | Model/Type No. | Series No. | Note |
|---|---|---|---|---|---|
| E-1 | Remote Control | N/A | S1 | N/A | EUT |
| E-2 | Adapter | N/A | SAW12-050-2000UD | N/A | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| C-1 | NO | NO | 1.0m | |
| C-2 | NO | NO | 0.8m | |
| | | | | |
| | | | | |
| | | | | |

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

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

# 3. EMC EMISSION TEST

## 3.1CONDUCTED EMISSION MEASUREMENT

### 3.1.1 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 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | CISPR |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | CISPR |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | CISPR |

| | | | | | |
|---|---|---|---|---|---|
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | FCC |

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 |

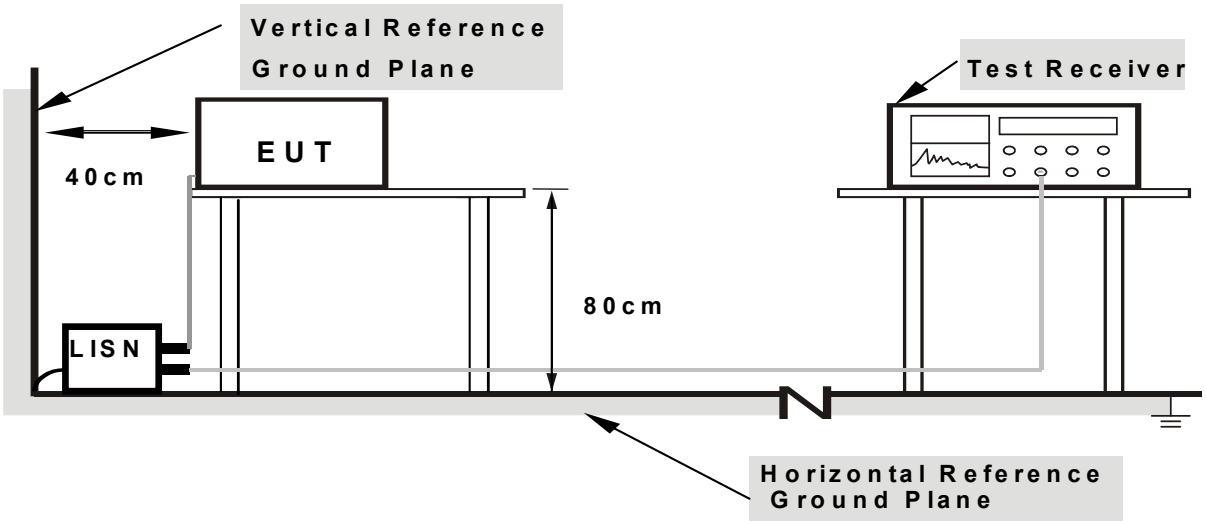
### 3.2 TEST PROCEDURE

a. The EUT was placed 0.8 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.
b. 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.
c. 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.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.2 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.3 TEST SETUP



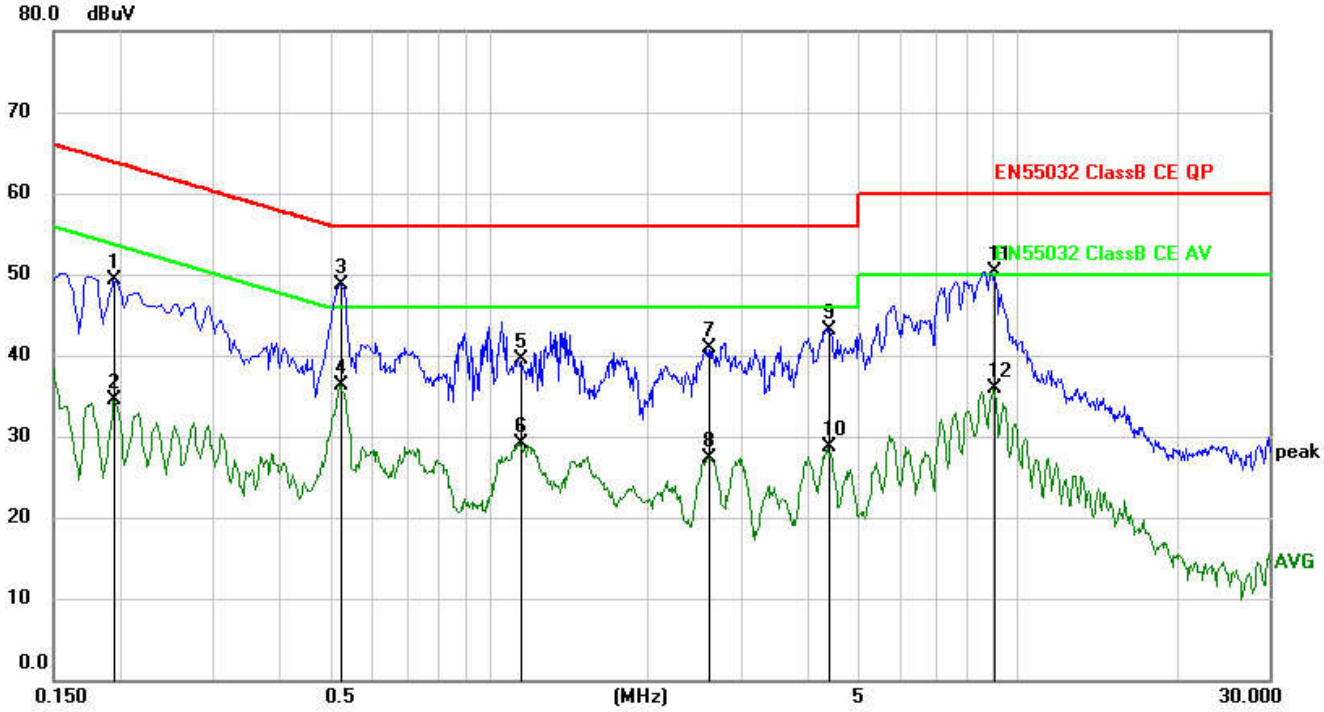

Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

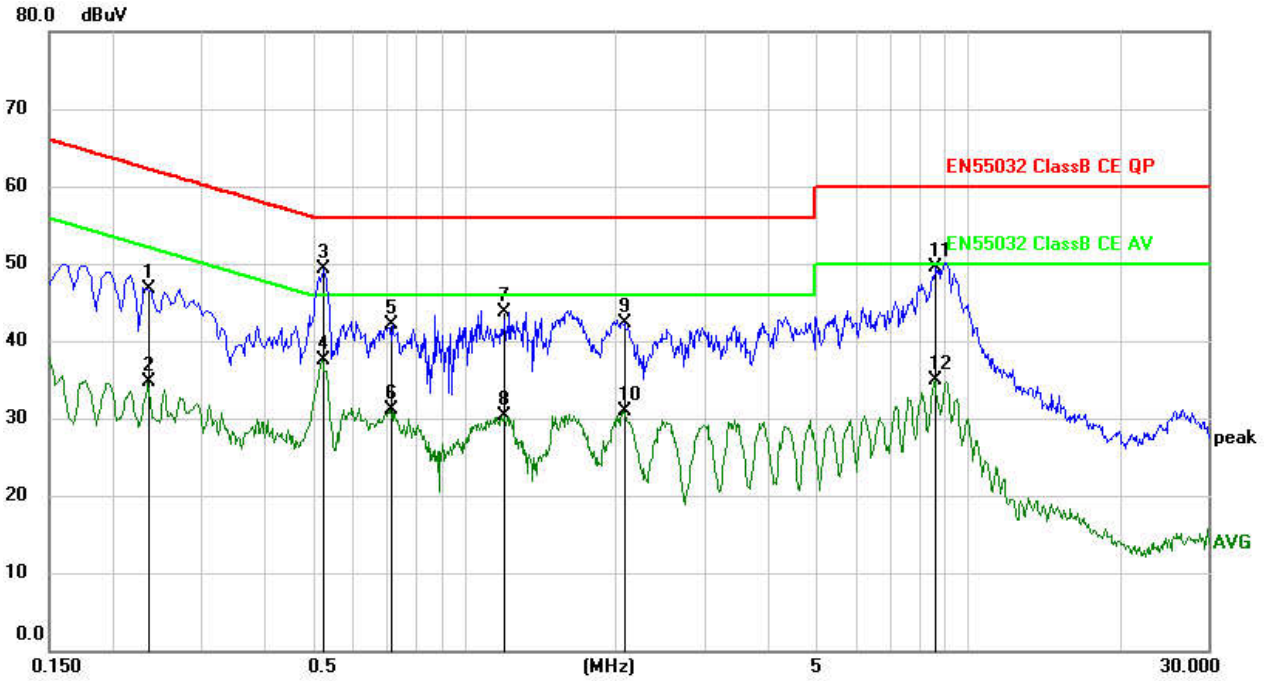
### 3.1.5 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | Remote Control | Model Name. ： | S1 |
| Temperature： | 26 ℃ | Relative Humidity： | 54% |
| Pressure： | 1010hPa | Phase： | L |
| Test Voltage ： | DC 5V from adapter AC 120V/60Hz | Test Mode： | Mode 2 |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1949 | 49.26 | -0.05 | 49.21 | 63.83 | -14.62 | QP | |
| 2 | | 0.1949 | 34.51 | -0.05 | 34.46 | 53.83 | -19.37 | AVG | |
| 3 | * | 0.5235 | 48.84 | -0.05 | 48.79 | 56.00 | -7.21 | QP | |
| 4 | | 0.5235 | 36.39 | -0.05 | 36.34 | 46.00 | -9.66 | AVG | |
| 5 | | 1.1445 | 39.48 | -0.06 | 39.42 | 56.00 | -16.58 | QP | |
| 6 | | 1.1445 | 29.24 | -0.06 | 29.18 | 46.00 | -16.82 | AVG | |
| 7 | | 2.5980 | 40.95 | -0.08 | 40.87 | 56.00 | -15.13 | QP | |
| 8 | | 2.5980 | 27.44 | -0.08 | 27.36 | 46.00 | -18.64 | AVG | |
| 9 | | 4.4025 | 43.29 | -0.09 | 43.20 | 56.00 | -12.80 | QP | |
| 10 | | 4.4025 | 28.85 | -0.09 | 28.76 | 46.00 | -17.24 | AVG | |
| 11 | | 9.0285 | 50.55 | -0.17 | 50.38 | 60.00 | -9.62 | QP | |
| 12 | | 9.0285 | 36.05 | -0.17 | 35.88 | 50.00 | -14.12 | AVG | |

| | | | |
|---|---|---|---|
| EUT： | Remote Control | Model Name. ： | S1 |
| Temperature： | 26 ℃ | Relative Humidity： | 54% |
| Pressure： | 1010hPa | Phase： | N |
| Test Voltage ： | DC 5V from adapter AC 120V/60Hz | Test Mode： | Mode 2 |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.2355 | 46.79 | -0.05 | 46.74 | 62.25 | -15.51 | QP | |
| 2 | | 0.2355 | 34.71 | -0.05 | 34.66 | 52.25 | -17.59 | AVG | |
| 3 | * | 0.5235 | 49.30 | -0.05 | 49.25 | 56.00 | -6.75 | QP | |
| 4 | | 0.5235 | 37.49 | -0.05 | 37.44 | 46.00 | -8.56 | AVG | |
| 5 | | 0.7125 | 42.08 | -0.05 | 42.03 | 56.00 | -13.97 | QP | |
| 6 | | 0.7125 | 31.15 | -0.05 | 31.10 | 46.00 | -14.90 | AVG | |
| 7 | | 1.1985 | 43.72 | -0.06 | 43.66 | 56.00 | -12.34 | QP | |
| 8 | | 1.1985 | 30.33 | -0.06 | 30.27 | 46.00 | -15.73 | AVG | |
| 9 | | 2.0715 | 42.33 | -0.07 | 42.26 | 56.00 | -13.74 | QP | |
| 10 | | 2.0715 | 30.97 | -0.07 | 30.90 | 46.00 | -15.10 | AVG | |
| 11 | | 8.6235 | 49.66 | -0.16 | 49.50 | 60.00 | -10.50 | QP | |
| 12 | | 8.6235 | 35.03 | -0.16 | 34.87 | 50.00 | -15.13 | AVG | |

# 4. RADIATED EMISSION & BAND EDGE SPURIOUS EMISSION

## 4.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| 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 |

| Frequency | Field Strength(dBuv/m) | Detector |
|---|---|---|
| Fundamental | 114 | PK |
| Fundamental | 94 | AV |
| Harmonic emissions | 74 | PK |
| Harmonic emissions | 54 | AV |

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

| 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 |

## 4.2 TEST PROCEDURE

a. 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.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. 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.
e. 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.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

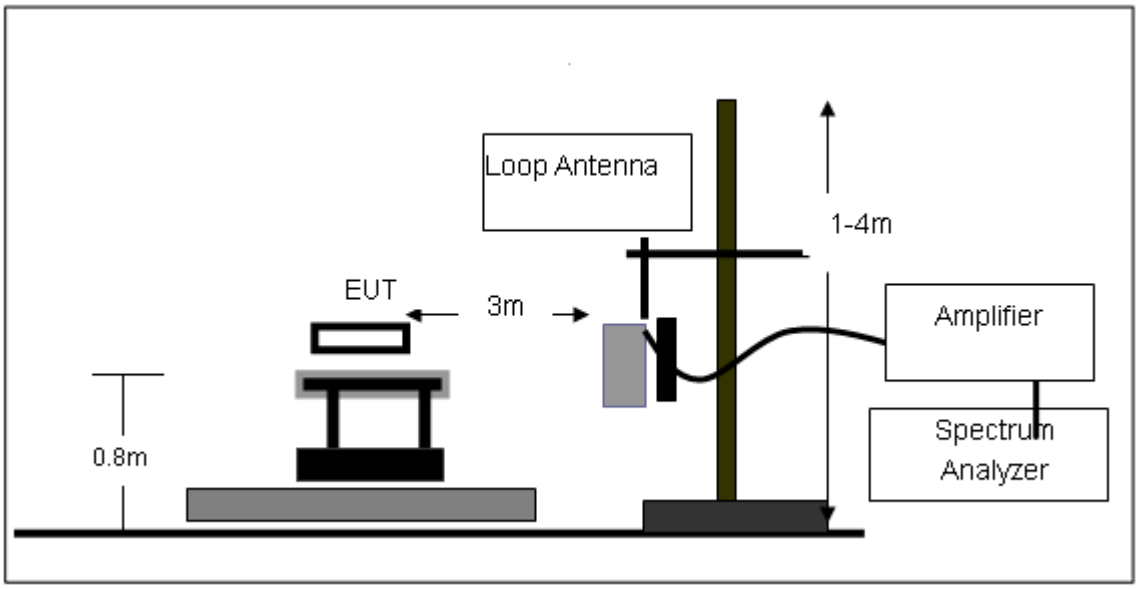
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

## 4.3 DEVIATION FROM TEST STANDARD

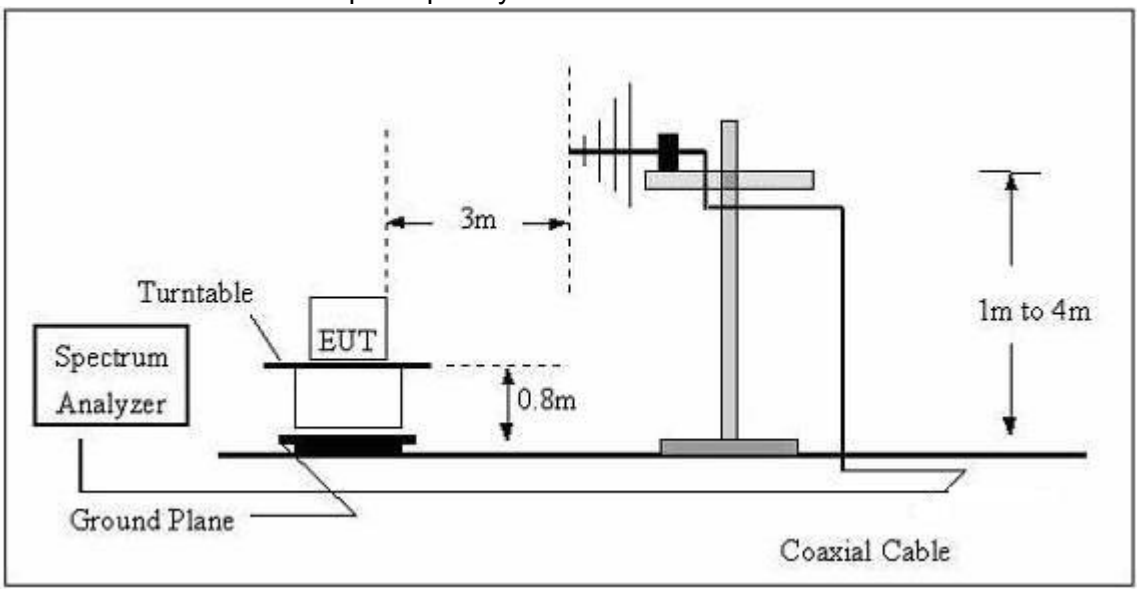
No deviation

## 4.4 TEST SETUP

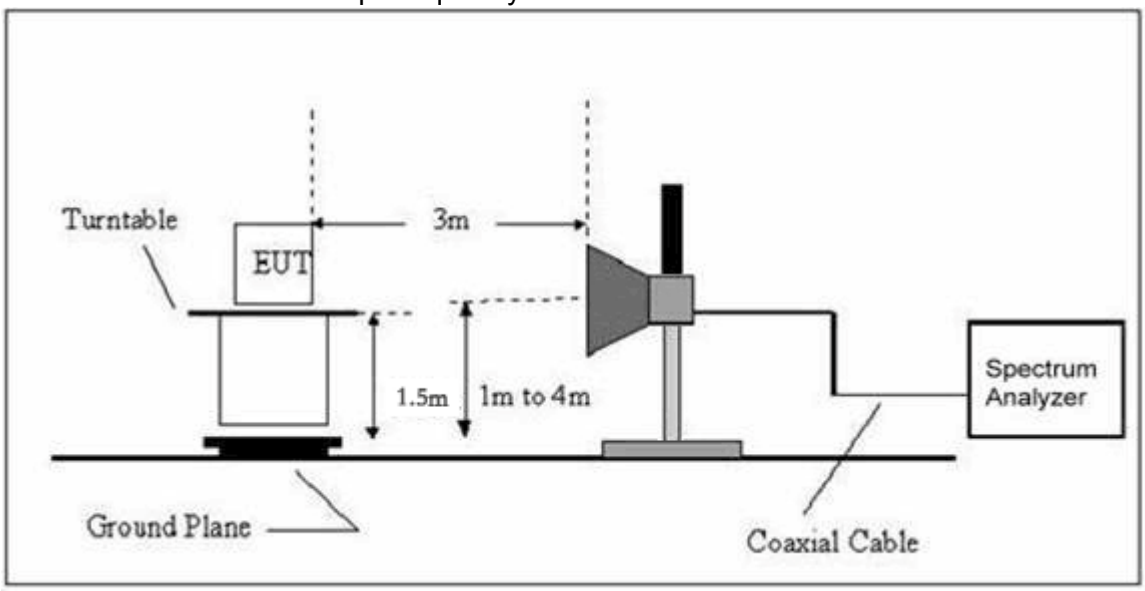
（A）Radiated Emission Test-Up Frequency Below 30MHz




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



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




## 4.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 4.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

| | | | |
|---|---|---|---|
| EUT： | Remote Control | Model Name. ： | S1 |
| Temperature： | 20 ℃ | Relative Humidtity： | 48% |
| Pressure： | 1010 hPa | Test Voltage ： | DC 3.7Vfrom battery |
| 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 (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

## 4.7 EST RESULTS (BETWEEN 30MHZ – 1GHZ)

| | | | |
|---|---|---|---|
| EUT： | Remote Control | Model Name ： | S1 |
| Temperature： | 20 ℃ | Relative Humidity： | 48% |
| Pressure： | 1010 hPa | Test Voltage ： | DC 3.7Vfrom battery |
| Test Mode ： | TX | | |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|
| V | 119.4360 | 12.35 | 12.08 | 24.43 | 43.5 | 19.07 | QP |
| V | 128.1129 | 13.38 | 12.2 | 25.58 | 43.5 | 17.92 | QP |
| V | 170.7926 | 14.76 | 10.35 | 25.11 | 43.5 | 18.39 | QP |
| V | 341.9786 | 10.55 | 16.19 | 26.74 | 46 | 19.26 | QP |
| V | 468.8761 | 12.73 | 19.69 | 32.42 | 46 | 13.58 | QP |
| V | 935.5462 | 8.29 | 29.42 | 37.71 | 46 | 8.29 | QP |
| H | 170.7923 | 14.51 | 10.35 | 24.86 | 43.5 | 18.64 | QP |
| H | 341.9786 | 15.43 | 16.19 | 31.62 | 46 | 14.38 | QP |
| H | 468.8761 | 12.92 | 19.69 | 32.61 | 46 | 13.39 | QP |
| H | 726.8052 | 8.62 | 26 | 34.62 | 46 | 11.38 | QP |
| H | 813.1114 | 6.74 | 26.35 | 33.09 | 46 | 12.91 | QP |
| H | 854.0247 | 7.27 | 27.51 | 34.78 | 46 | 11.22 | QP |

**Remark:**

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level- Limit

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically

## 4.8 TEST RESULTS (1G-25GHz)

GFSK

Transmitter channel: 2402MHz

| Frequency | Ant. Polarization | Emission level | Limits | Detector | |
|---|---|---|---|---|---|
| (MHz) | H / V | dBμV/m | dBμV/m | | |
| 2402 | V | 91.54 | 114 | PK | Result |
| 2402 | H | 89.57 | 114 | PK | |
| 2402 | V | / | 94 | AV | |
| 2402 | H | / | 94 | AV | |
| 4804 | V | 49.22 | 74 | PK | |
| 4804 | H | 43.46 | 74 | PK | |
| Transmitter channel: 2441MHz | | | | | |
| Frequency | Ant. Polarization | Emission level | Limits | Detector | |
| (MHz) | H / V | dBμV/m | dBμV/m | | |
| 2441 | V | 90.73 | 114 | PK | Pass |
| 2441 | H | 88.42 | 114 | PK | |
| 2441 | V | / | 94 | AV | |
| 2441 | H | / | 94 | AV | |
| 4882 | V | 49.14 | 74 | PK | |
| 4882 | H | 44.07 | 74 | PK | |
| Transmitter channel: 2480MHz | | | | | |
| Frequency | Ant. Polarization | Emission level | Limits | Detector | |
| (MHz) | H / V | dBμV/m | dBμV/m | | |
| 2480 | V | 89.76 | 114 | PK | Pass |
| 2480 | H | 87.98 | 114 | PK | |
| 2480 | V | / | 94 | AV | |
| 2480 | H | / | 94 | AV | |
| 4960 | V | 48.21 | 74 | PK | |
| 4960 | H | 43.85 | 74 | PK | |

Note:The PK value is less than the AV value, AV value is not required
Factor added by measurement software automatically.

For fundamental frequency， RBW 3MHz VBW 3MHz Peak detector is for PK ,RMS detector is for AV

### 4.9 BAND EDGE(Radiated)

| | Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type | Comment |
|---|---|---|---|---|---|---|---|---|
| | GFSK | | | | | | | |
| CHL | 2390 | 53.22 | -13.06 | 40.16 | 74 | 33.84 | peak | Vertical |
| CHL | 2390 | 52.28 | -13.06 | 39.22 | 74 | 34.78 | peak | Horizontal |
| CHL | 2400 | 51.33 | -13.06 | 38.27 | 74 | -35.73 | peak | Vertical |
| CHL | 2400 | 53.14 | -12.78 | 40.36 | 74 | -33.64 | peak | Horizontal |
| CHH | 2483.5 | 59.79 | -12.78 | 47.01 | 74 | 26.99 | peak | Vertical |
| CHH | 2483.5 | 55.54 | -12.78 | 42.76 | 74 | 31.24 | peak | Horizontal |

NOTE:The PK value is less than the AV value, AV value is not required.

## 5. 20 DB OCCUPY BANDWIDTH

### 5.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.249) , Subpart C | | | | |
|---|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.215 | 20dB bandwidth | / | 2400-2483.5 | PASS |

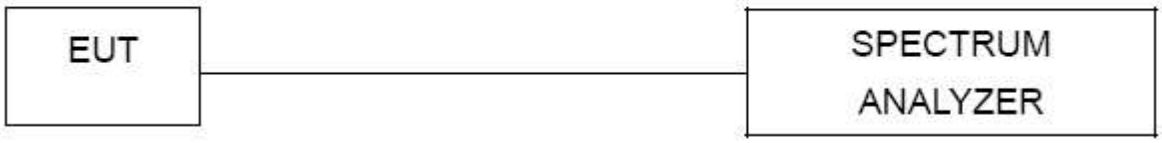
### 5.2 TEST PROCEDURE

(1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
(2) Spectrum Setting:
Bandwidth: RBW=30 kHz, VBW=100 kHz, detector= Peak

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP




### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

## 5.6 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | Remote Control | Model Name ： | S1 |
| Temperature： | 25 ℃ | Relative Humidity： | 60% |
| Pressure： | 1015 hPa | Test Voltage ： | DC 3.7Vfrom battery |
| Test Mode ： | GFSK Mode /CH01, CH40, CH79 | | |

| Frequency | 20dB Bandwidth (MHz) | Limit | Result |
|---|---|---|---|
| 2402 MHz | 1.258 | / | PASS |
| 2441 MHz | 1.259 | / | PASS |
| 2480 MHz | 1.258 | / | PASS |

**TX CH01**

## TX CH40

## TX CH79

# 6. ANTENNA REQUIREMENT

## 6.1 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.

## 6.2 EUT ANTENNA

The EUT antenna is Internal antenna 0dbi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

**----END OF REPORT----**