FCC Test Report

Report No.: AGC02009170504FE03

FCC ID : TW5GD7621

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Digital Wireless Baby Monitor With Color LCD Screen

BRAND NAME : N/A

MODEL NAME : GD7621

CLIENT: ShenZhen Gospell Smarthome Electronic Co., Ltd.

DATE OF ISSUE : June 23, 2017

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report No.: AGC02009170504FE03 Page 2 of 57

Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | June 23, 2017 | Valid | Original Report |

TABLE OF CONTENTS

| 1. VERIFICATION OF CONFORMITY | 5 |
|--|--------------------|
| 2. GENERAL INFORMATION | 6 |
| 2.1. PRODUCT DESCRIPTION | 6 |
| 2.2. TABLE OF CARRIER FREQUENCYS | 6 |
| 2.3. RECEIVER INPUT BANDWIDTH | |
| 2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MO | DE 7 |
| 2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND E | BEHAVIOUR7 |
| 2.6. RELATED SUBMITTAL(S) / GRANT (S) | |
| 2.7. TEST METHODOLOGY | |
| 2.8. SPECIAL ACCESSORIES | |
| 2.9. EQUIPMENT MODIFICATIONS | |
| 3. MEASUREMENT UNCERTAINTY | 8 |
| 4. DESCRIPTION OF TEST MODES | 8 |
| 5. SYSTEM TEST CONFIGURATION | 9 |
| 5.1. CONFIGURATION OF EUT SYSTEM | 9 |
| 5.2. EQUIPMENT USED IN EUT SYSTEM | 9 |
| 5.3. SUMMARY OF TEST RESULTS | 9 |
| 6. TEST FACILITY | 10 |
| 7. PEAK OUTPUT POWER | 11 |
| 7.1. MEASUREMENT PROCEDURE | 1² |
| 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION OF CONFI | ION)1 ² |
| 7.3. LIMITS AND MEASUREMENT RESULT | 12 |
| 8. 20DB BANDWIDTH | 14 |
| 8.1. MEASUREMENT PROCEDURE | 14 |
| 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION OF CONFI | ION)14 |
| 8.3. LIMITS AND MEASUREMENT RESULTS | 14 |
| 9. CONDUCTED SPURIOUS EMISSION | 16 |
| 9.1. MEASUREMENT PROCEDURE | |
| 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURAT | ION)16 |
| 9.3. MEASUREMENT EQUIPMENT USED | |
| 9.4. LIMITS AND MEASUREMENT RESULT | |
| 10. RADIATED EMISSION | 25 |
| 10.1. MEASUREMENT PROCEDURE | 25 |
| 10.2. TEST SETUP | 27 |
| 10.3. LIMITS AND MEASUREMENT RESULT | 28 |

| 10.4. TEST RESULT | 28 |
|---|----|
| 11. BAND EDGE EMISSION | 34 |
| 11.1. MEASUREMENT PROCEDURE | 34 |
| 11.2 TEST SETUP | 34 |
| 11.3 RADIATED TEST RESULT | 34 |
| 12. NUMBER OF HOPPING FREQUENCY | 39 |
| 12.1. MEASUREMENT PROCEDURE | 39 |
| 12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) | 39 |
| 12.3. MEASUREMENT EQUIPMENT USED | 39 |
| 12.4. LIMITS AND MEASUREMENT RESULT | 39 |
| 13. TIME OF OCCUPANCY (DWELL TIME) | 41 |
| 13.1. MEASUREMENT PROCEDURE | 41 |
| 13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) | 41 |
| 13.3. MEASUREMENT EQUIPMENT USED | 41 |
| 13.4. LIMITS AND MEASUREMENT RESULT | 41 |
| 14. FREQUENCY SEPARATION | 45 |
| 14.1. MEASUREMENT PROCEDURE | 45 |
| 14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) | 45 |
| 14.3. MEASUREMENT EQUIPMENT USED | 45 |
| 14.4. LIMITS AND MEASUREMENT RESULT | 45 |
| 15. FCC LINE CONDUCTED EMISSION TEST | 46 |
| 15.1. LIMITS OF LINE CONDUCTED EMISSION TEST | 46 |
| 15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST | 46 |
| 15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST | 47 |
| 15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST | 47 |
| 15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST | 48 |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP | 50 |
| ADDENDIV D. DUOTOGDADUS OF FUT | 52 |

Page 5 of 57

1. VERIFICATION OF CONFORMITY

| Applicant | ShenZhen Gospell Smarthome Electronic Co., Ltd. | | | |
|--------------------------|---|--|--|--|
| Address | 5Floor/Block 2, Vision (SZ) Park, Hi-Tech Industrial Park, Shenzhen, China | | | |
| Manufacturer | ShenZhen Gospell Smarthome Electronic Co., Ltd. | | | |
| Address | East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P. R. China | | | |
| Product Designation | Digital Wireless Baby Monitor With Color LCD Screen | | | |
| Brand Name | N/A | | | |
| Test Model | GD7621 | | | |
| Date of test | June 21, 2017 to June 23, 2017 | | | |
| Deviation | None | | | |
| Condition of Test Sample | Normal | | | |
| Test Result | Pass | | | |
| Report Template | AGCRT-US-BR/RF (2013-03-01) | | | |

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Max Zhang(Zhang Yi) June 23, 2017

Reviewed by

Bart Xie(Xie Xiaobin) June 23, 2017

Approved by

Solger Zhang(Zhang Hongyi)
Authorized Officer

June 23, 2017

Page 6 of 57

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

| A major technical description of EOT is described as following | | |
|--|------------------------|--|
| Operation Frequency | 2403.5MHz to 2475.5MHz | |
| RF Output Power | 9.393dBm(Max) | |
| Modulation | GFSK | |
| Number of channels | 49 | |
| Hardware Version | GD7621M04 | |
| Software Version | V20150702 | |
| Antenna Designation | Integral antenna | |
| Antenna Gain | 2dBi | |
| Power Supply | DC 5V by adapter | |

2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band Channel Number | | Frequency | | |
|-------------------------------|----|------------|--|--|
| | 1 | 2403.5 MHZ | | |
| | 2 | 2405.0 MHZ | | |
| 2400~2483.5MHZ | : | · | | |
| | 48 | 2474.0 MHZ | | |
| | 49 | 2475.5 MHZ | | |

Note: The channel spacing is 1.5MHz.

Page 7 of 57

2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 2MHz.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 51 hopping sequence in data mode: 21,23,33,25,27,31,07,09,13,11,15,02,06,01,03,05,04,08,10,12,14,16,17,18,19,20, 24,26,27,28,29,30,32,34,35,36,37,38,40,41,42,43,45,44,47,46,48,49

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: TW5GD7621** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

Page 8 of 57

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |

Note:

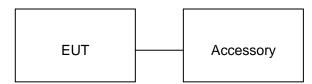
- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

Report No.: AGC02009170504FE03 Page 9 of 57

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|---|----------------|---------------------|---------|
| 1 | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | GD7621 | TW5GD7621 | EUT |
| 2 | Adapter | KT05W050100USD | DC5V/1A | Maketed |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|-----------------------------|-----------|
| §15.247 | Peak Output Power | Compliant |
| §15.247 | 20 dB Bandwidth | Compliant |
| §15.247 | Spurious Emission | Compliant |
| §15.209 | Radiated Emission | Compliant |
| §15.209 | Band edge Emission | Compliant |
| §15.207 | Conduction Emission | Compliant |
| §15.247 | Number of Hopping Frequency | Compliant |
| §15.247 | Time of Occupancy | Compliant |
| §15.247 | Frequency Separation | Compliant |

Report No.: AGC02009170504FE03 Page 10 of 57

6. TEST FACILITY

| Site | Dongguan Precise Testing Service Co., Ltd. |
|----------------------|--|
| Location | Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China. |
| FCC Registration No. | 371540 |
| Description | The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014. |

ALL TEST EQUIPMENT LIST

| Radiated Emission Test Site | | | | | |
|-------------------------------------|--------------------|-----------------|---------------|---------------------|--------------------|
| Name of Equipment | Manufacturer | Model Number | Serial Number | Last Calibration | Due Calibration |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101417 | July 3, 2016 | July 2, 2017 |
| Trilog Broadband Antenna (25M-1GHz) | SCHWARZBECK | VULB9160 | 9160-3355 | July 3, 2016 | July 2, 2017 |
| Signal Amplifier | SCHWARZBECK | BBV 9475 | 9745-0013 | July 3, 2016 | July 2, 2017 |
| RF Cable | SCHWARZBECK | AK9515E | 96221 | July 3, 2016 | July 2, 2017 |
| 3m Anechoic Chamber | CHENGYU | 966 | PTS-001 | June 2, 2017 | June 1, 2018 |
| MULTI-DEVICE Positioning Controller | Max-Full | MF-7802 | MF780208339 | N/A | N/A |
| Active loop antenna (9K-30MHz) | Schwarzbeck | FMZB1519 | 1519-038 | June 2, 2017 | June 1, 2018 |
| Spectrum analyzer | Agilent | E4407B | MY46185649 | June 2, 2017 | June 1, 2018 |
| Power Sensor | Agilent | U2021XA | MY55050474 | June 2, 2017 | June 1, 2018 |
| Horn Antenna (1G-18GHz) | SCHWARZBECK | BBHA9120D | 9120D-1246 | June 2, 2017 | June 1, 2018 |
| Horn Ant (18G-40GHz) | Schwarzbeck | BBHA 9170 | 9170-181 | June 2, 2017 | June 1, 2018 |

| Conducted Emission Test Site | | | | | | |
|--------------------------------|--------------------|-----------------|---------------|---------------------|--------------------|--|
| Name of Equipment | Manufacturer | Model Number | Serial Number | Last Calibration | Due Calibration | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101417 | July 3, 2016 | July 2, 2017 | |
| Artificial Mains Network | Narda | L2-16B | 000WX31025 | July 3, 2016 | July 2, 2017 | |
| Artificial Mains Network (AUX) | Narda | L2-16B | 000WX31026 | July 3, 2016 | July 2, 2017 | |
| RF Cable | SCHWARZBECK | AK9515E | 96222 | July 2, 2017 | July 1, 2018 | |
| Shielded Room | CHENGYU | 843 | PTS-002 | July 2, 2017 | July 1, 2018 | |

Page 11 of 57

7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

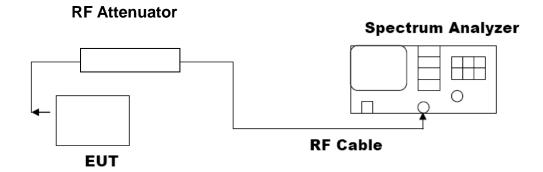
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



Page 12 of 57

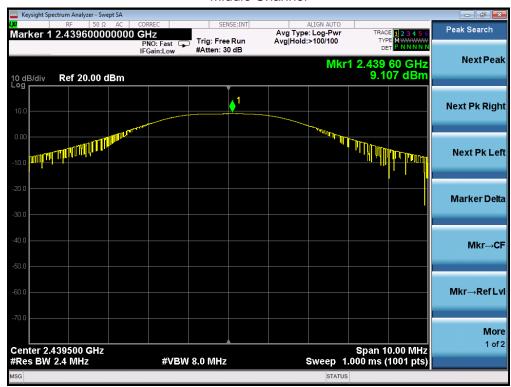
7.3. LIMITS AND MEASUREMENT RESULT

| PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION | | | | | | | | |
|---|-------|----|------|--|--|--|--|--|
| Frequency (MHz) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail | | | | | | | | |
| 2403.5 | 8.432 | 21 | Pass | | | | | |
| 2439.5 | 9.107 | 21 | Pass | | | | | |
| 2475.5 | 9.393 | 21 | Pass | | | | | |

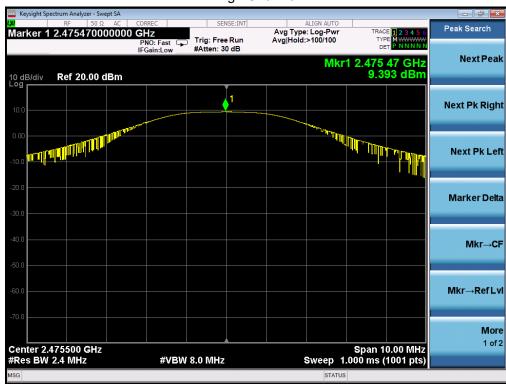
Low Channel



Middle Channel



High Channel



Page 14 of 57

8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

| MEASUREMENT RESULT FOR GFSK MOUDULATION | | | | | |
|---|--------------------|----------|------|--|--|
| Appliachle Limite | Measurement Result | | | | |
| Applicable Limits | Test Da | Criteria | | | |
| | Low Channel | 2.068 | PASS | | |
| N/A | Middle Channel | 2.081 | PASS | | |
| | High Channel | 2.074 | PASS | | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Page 16 of 57

9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

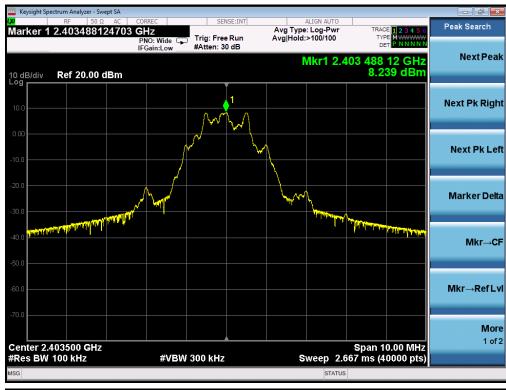
9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | | | | | |
|--|--------------------------------|----------|--|--|--|--|
| Applicable Limite | Measurement Result | | | | | |
| Applicable Limits | Test Data | Criteria | | | | |
| In any 100 KHz Bandwidth Outside the | At least -20dBc than the limit | | | | | |
| frequency band in which the spread spectrum | Specified on the BOTTOM | PASS | | | | |
| intentional radiator is operating, the radio frequency | Channel | | | | | |
| power that is produce by the intentional radiator | | | | | | |
| shall be at least 20 dB below that in 100KHz | | | | | | |
| bandwidth within the band that contains the highest | | | | | | |
| level of the desired power. | At least -20dBc than the limit | PASS | | | | |
| In addition, radiation emissions which fall in the | Specified on the TOP Channel | PASS | | | | |
| restricted bands, as defined in §15.205(a), must also | | | | | | |
| comply with the radiated emission limits specified | | | | | | |
| in§15.209(a)) | | | | | | |

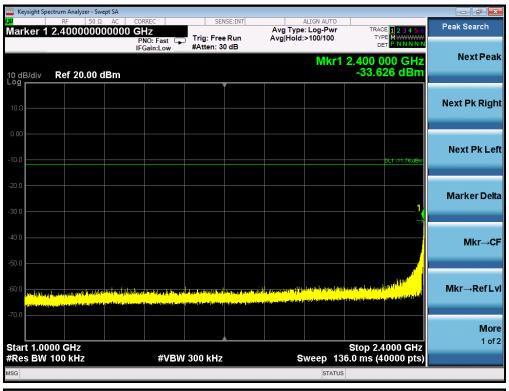
Page 17 of 57

TEST RESULT FOR ENTIRE FREQUENCY RANGE

GFSK MODULATION IN LOW CHANNEL

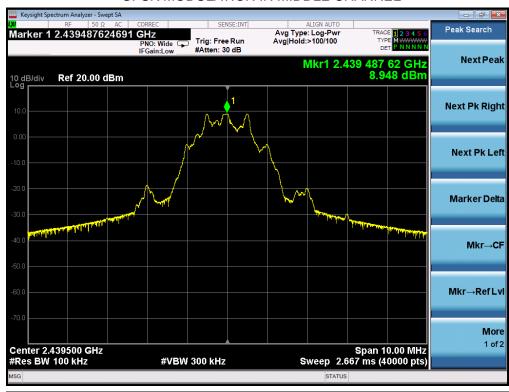


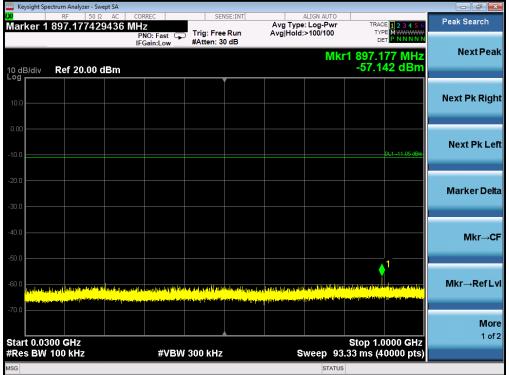


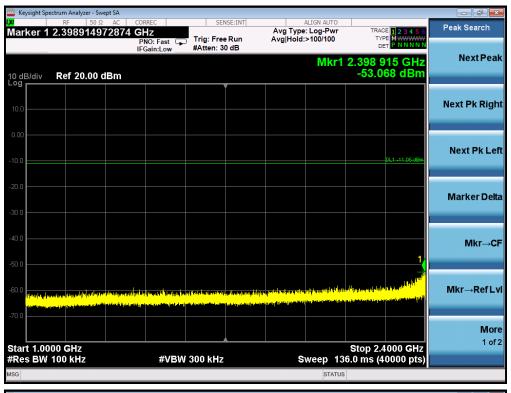




GFSK MODULATION IN MIDDLE CHANNEL

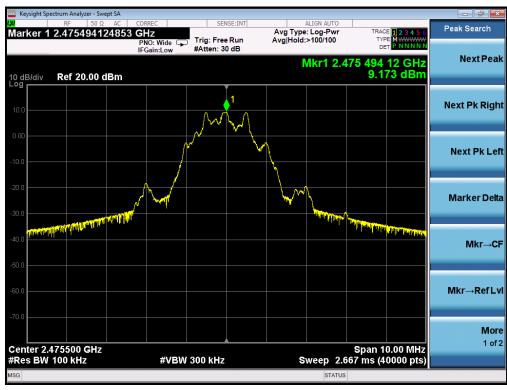


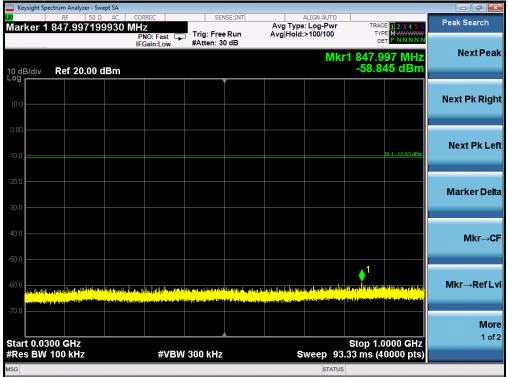


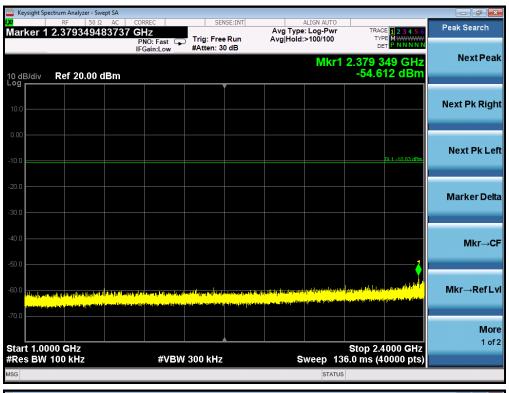




GFSK MODULATION IN HIGH CHANNEL









Page 23 of 57

TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off



Hopping on



Page 24 of 57

GFSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



Page 25 of 57

10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average 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 for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions 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.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

Report No.: AGC02009170504FE03 Page 26 of 57

The following table is the setting of spectrum analyzer and receiver.

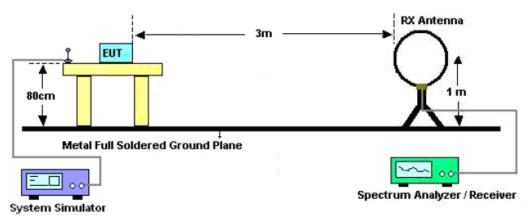
| Spectrum Parameter | Setting | | |
|-----------------------|---|--|--|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP | | |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP | | |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP | | |
| Start ~Stop Frequency | 1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average | | |

| Receiver Parameter | Setting |
|-----------------------|--------------------------------|
| 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 |

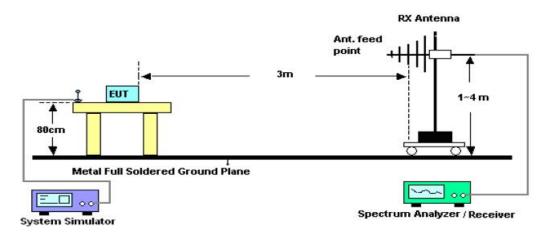
Page 27 of 57

10.2. TEST SETUP

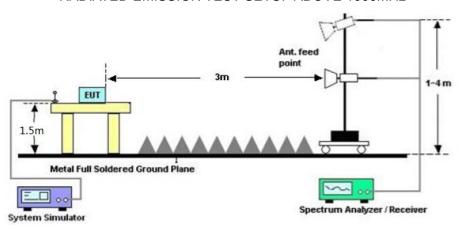
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



Report No.: AGC02009170504FE03 Page 28 of 57

10.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table 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 |

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

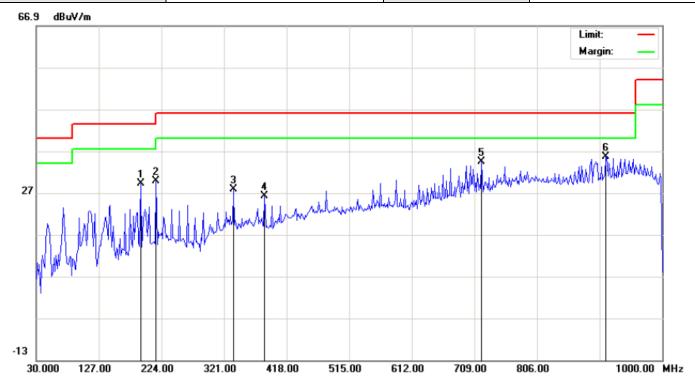
10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

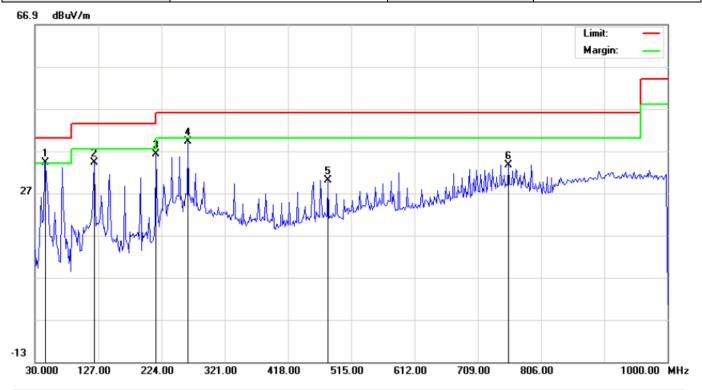


| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 191.6667 | 17.57 | 11.61 | 29.18 | 43.50 | -14.32 | peak | | | |
| 2 | | 215.9167 | 19.39 | 10.38 | 29.77 | 43.50 | -13.73 | peak | | | |
| 3 | | 335.5500 | 9.96 | 17.78 | 27.74 | 46.00 | -18.26 | peak | | | |
| 4 | | 384.0500 | 7.22 | 18.96 | 26.18 | 46.00 | -19.82 | peak | | | |
| 5 | | 720.3167 | 8.60 | 25.78 | 34.38 | 46.00 | -11.62 | peak | | | |
| 6 | * | 912.7000 | 6.59 | 28.96 | 35.55 | 46.00 | -10.45 | peak | | · | |

RESULT: PASS

Report No.: AGC02009170504FE03 Page 30 of 57

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| | - | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB |] | cm | degree | |
| 1 | * | 46.1667 | 25.81 | 8.49 | 34.30 | 40.00 | -5.70 | peak | | | |
| 2 | | 120.5333 | 27.03 | 7.08 | 34.11 | 43.50 | -9.39 | peak | | | |
| 3 | | 215.9167 | 25.55 | 10.56 | 36.11 | 43.50 | -7.39 | peak | | | |
| 4 | | 264.4167 | 24.88 | 14.34 | 39.22 | 46.00 | -6.78 | peak | | | |
| 5 | | 479.4333 | 9.16 | 20.91 | 30.07 | 46.00 | -15.93 | peak | | | |
| 6 | | 755.8833 | 6.98 | 26.71 | 33.69 | 46.00 | -12.31 | peak | | | |

RESULT: PASS

Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

Report No.: AGC02009170504FE03 Page 31 of 57

RADIATED EMISSION ABOVE 1GHZ

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type | | | |
|---|---------------|--------|----------------|----------|--------|------------|--|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type | | | |
| 4807.026 | 49.52 | 3.74 | 53.26 | 74 | -20.74 | peak | | | |
| 4807.026 | 42.54 | 3.74 | 46.28 | 54 | -7.72 | AVG | | | |
| 7210.539 | 41.52 | 8.14 | 49.66 | 74 | -24.34 | peak | | | |
| 7210.539 35.33 8.14 43.47 54 -10.53 AVG | | | | | | | | | |
| Remark: | | | | | | | | | |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | | | |

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---|---|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4807.026 | 48.72 | 3.74 | 52.46 | 74 | -21.54 | peak |
| 4807.026 | 42.21 | 3.74 | 45.95 | 54 | -8.05 | AVG |
| 7210.539 | 40.04 | 8.14 | 48.18 | 74 | -25.82 | peak |
| 7210.539 34.11 8.14 42.25 54 -11.75 AVG | | | | | | |
| Remark: | | | | | | |
| Factor = Ante | Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | |

Report No.: AGC02009170504FE03 Page 32 of 57

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|--|---|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4879.032 | 49.33 | 3.76 | 53.09 | 74 | -20.91 | peak |
| 4879.032 | 44.12 | 3.76 | 47.88 | 54 | -6.12 | AVG |
| 7318.548 | 42.11 | 8.17 | 50.28 | 74 | -23.72 | peak |
| 7318.548 36.42 8.17 44.59 54 -9.41 AVG | | | | | | |
| Remark: | | | | | | |
| Factor = Ante | Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | |

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|---|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4879.032 | 50.02 | 3.76 | 53.78 | 74 | -20.22 | peak |
| 4879.032 | 44.89 | 3.76 | 48.65 | 54 | -5.35 | AVG |
| 7318.548 | 40.25 | 8.17 | 48.42 | 74 | -25.58 | peak |
| 7318.548 | 7318.548 35.29 8.17 43.46 54 -10.54 AVG | | | | | |
| Remark: | | | | | | |
| Factor = Ante | Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | |

Page 33 of 57

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|---|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4951.042 | 50.52 | 3.83 | 54.35 | 74 | -19.65 | peak |
| 4951.042 | 44.39 | 3.83 | 48.22 | 54 | -5.78 | AVG |
| 7426.563 | 42.05 | 8.21 | 50.26 | 74 | -23.74 | peak |
| 7426.563 | 7426.563 35.86 8.21 44.07 54 -9.93 AVG | | | | | |
| Remark: | | | | | | |
| Factor = Ante | Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | |

| EUT | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|--|---|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4951.042 | 49.52 | 3.83 | 53.35 | 74 | -20.65 | peak |
| 4951.042 | 43.11 | 3.83 | 46.94 | 54 | -7.06 | AVG |
| 7426.563 | 41.77 | 8.21 | 49.98 | 74 | -24.02 | peak |
| 7426.563 35.82 8.21 44.03 54 -9.97 AVG | | | | | | |
| Remark: | | | | | | |
| Factor = Ante | Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | |

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Page 34 of 57

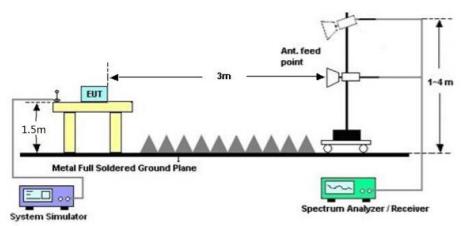
11. BAND EDGE EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz; VBW=1/on time(1KHz) / Sweep=AUTO
- 3. Other procedures refer to clause 7.2.

11.2 TEST SETUP

RADIATED EMISSION TEST SETUP



11.3 RADIATED TEST RESULT

Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

Report No.: AGC02009170504FE03 Page 35 of 57

| EUT: | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|--------------|---|-------------------|----------------|
| Temperature: | 25°C | Relative Humidity | 55.4% |
| Pressure : | 960hPa | Test Voltage | Normal Voltage |
| Test Mode : | Mode 1 | Polarization : | Horizontal |

PK Value



AV Value



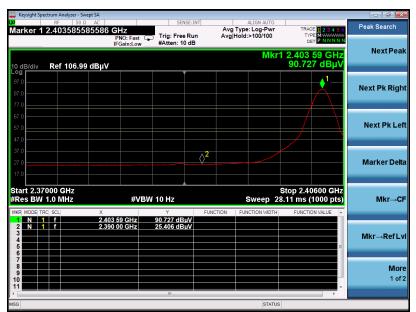
Report No.: AGC02009170504FE03 Page 36 of 57

| EUT: | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 |
|--------------|---|-------------------|----------------|
| Temperature: | 25°C | Relative Humidity | 55.4% |
| Pressure : | 960hPa | Test Voltage | Normal Voltage |
| Test Mode : | Mode 1 | Polarization : | Vertical |

PK Value



AV Value



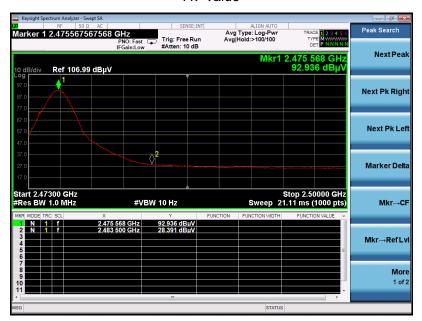
Report No.: AGC02009170504FE03 Page 37 of 57

| EUT: | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 | | |
|--------------|---|-------------------|----------------|--|--|
| Temperature: | 25°C | Relative Humidity | 55.4% | | |
| Pressure : | 960hPa | Test Voltage | Normal Voltage | | |
| Test Mode : | Mode 3 | Polarization : | Horizontal | | |

PK Value



AV Value



Report No.: AGC02009170504FE03 Page 38 of 57

| EUT: | DIGITAL WIRELESS BABY MONITOR WITH COLOR LCD SCREEN | Model Name | GD7621 | | |
|--------------|---|-------------------|----------------|--|--|
| Temperature: | 25°C | Relative Humidity | 55.4% | | |
| Pressure : | 960hPa | Test Voltage | Normal Voltage | | |
| Test Mode : | Mode 3 | Polarization : | Vertical | | |

PK Value



AV Value



Page 39 of 57

12. NUMBER OF HOPPING FREQUENCY

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.
- 4. Allow the trace to stabilize.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

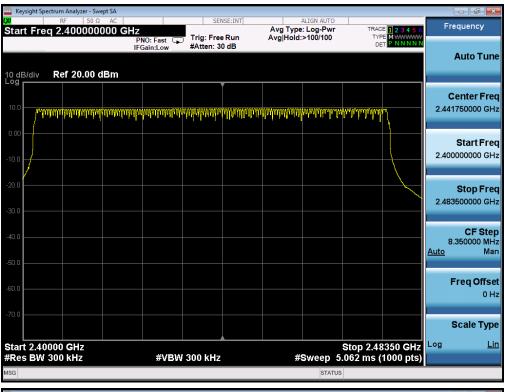
12.3. MEASUREMENT EQUIPMENT USED

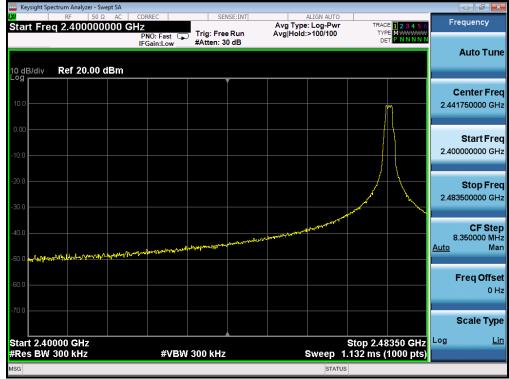
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

| TOTAL NO. OF | LIMIT (NO. OF CH) | MEASUREMENT (NO. OF CH) | RESULT | |
|-----------------|-------------------|----------------------------|--------|--|
| HOPPING CHANNEL | >=15 | 49 | PASS | |

TEST PLOT FOR NO. OF TOTAL CHANNELS





Page 41 of 57

13. TIME OF OCCUPANCY (DWELL TIME)

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Zero span, centered on a hopping channel.
- 2. RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- 3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- 4. Detector function: Peak. Trace: Max hold.
- 5. Use the marker-delta function to determine the transmit time per hop.
- 6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

13.4. LIMITS AND MEASUREMENT RESULT

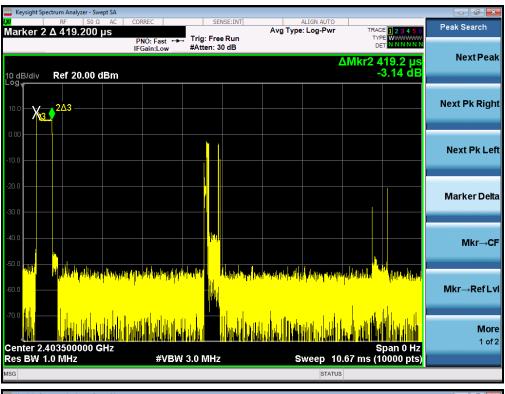
| Channel | Time of Pulse (ms) | Number of hops in the period specified in the requirements | Sweep Time (ms) | Limit (ms) |
|---------|-----------------------|--|--------------------|---------------|
| Low | 0.4192 | 53*4 | 88.8704 | 400 |
| Middle | 0.4192 | 53*4 | 88.8704 | 400 |
| High | 0.4192 | 52*4 | 87.1936 | 400 |

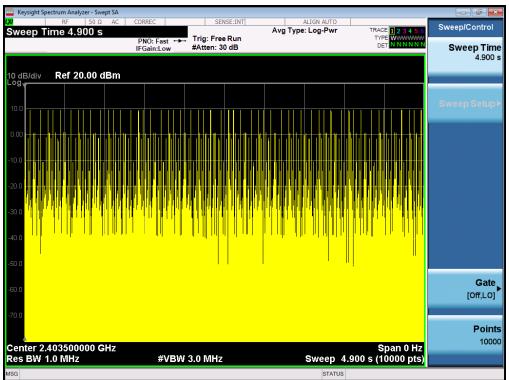
Note: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

period specified in the requirements=19.6s

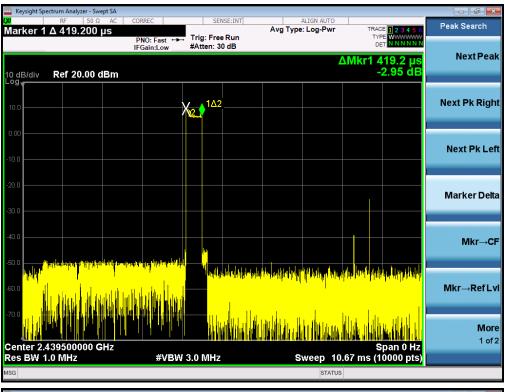
analyzer sweep time=4.9s

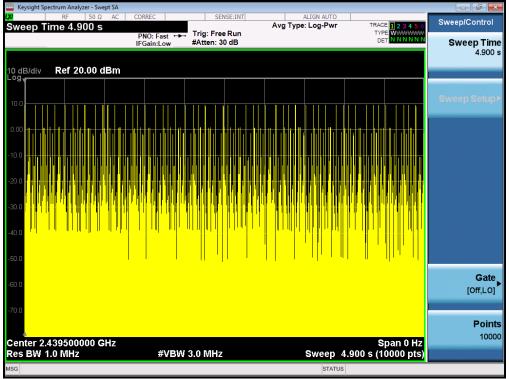
TEST PLOT OF LOW CHANNEL



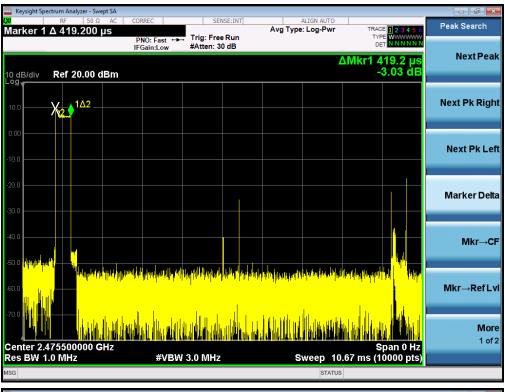


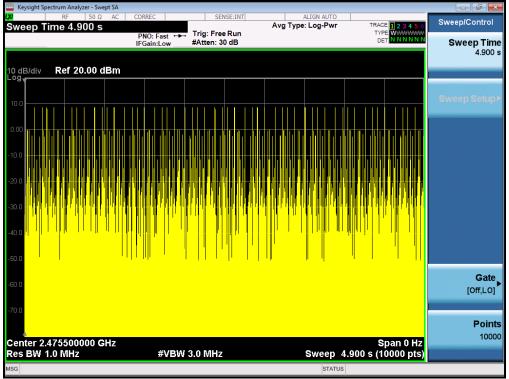
TEST PLOT OF MIDDLE CHANNEL





TEST PLOT OF HIGH CHANNEL





Page 45 of 57

14. FREQUENCY SEPARATION

14.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Wide enough to capture the peaks of two adjacent channels.
- 2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 3. Video (or average) bandwidth (VBW) ≥ RBW.
- 4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

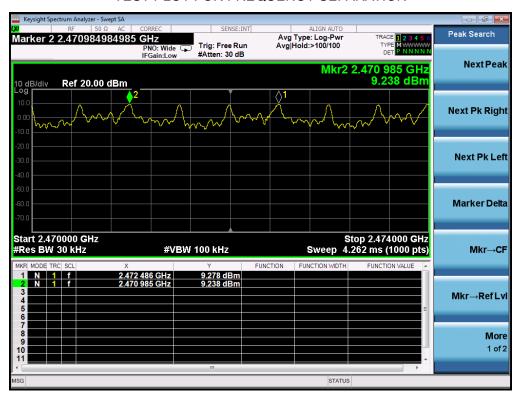
14.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

| CHANNEL | CHANNEL SEPARATION | LIMIT | RESULT | | |
|-----------|--------------------|--------------------------|--------|--|--|
| | kHz | KHz | Dage | | |
| CH01-CH02 | 1501 | >=25 KHz or 2/3 20 dB BW | Pass | | |

TEST PLOT FOR FREQUENCY SEPARATION



Page 46 of 57

15. FCC LINE CONDUCTED EMISSION TEST

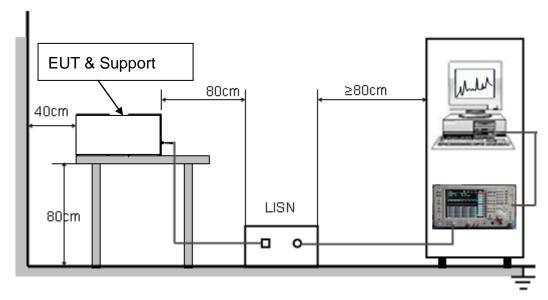
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Francis | Maximum RF Line Voltage | | | | | | |
|---------------|-------------------------|----------------|--|--|--|--|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | | | | | |
| 150kHz~500kHz | 66-56 | 56-46 | | | | | |
| 500kHz~5MHz | 56 | 46 | | | | | |
| 5MHz~30MHz | 60 | 50 | | | | | |

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



Page 47 of 57

15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

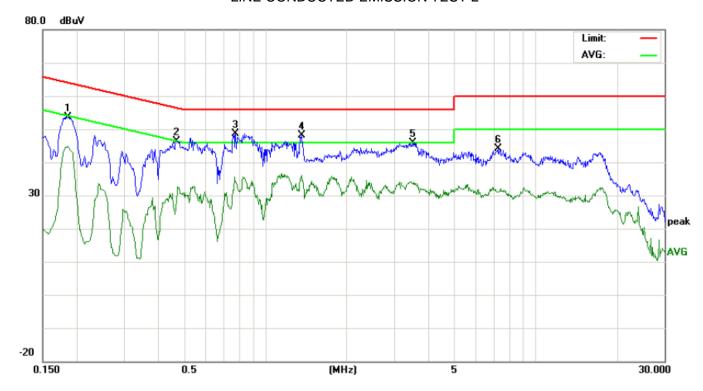
15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

Report No.: AGC02009170504FE03 Page 48 of 57

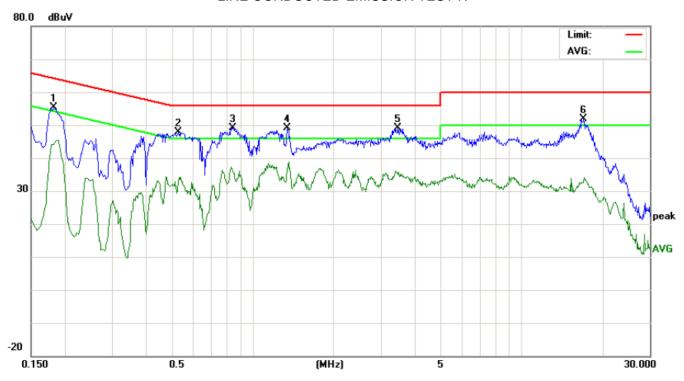
15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



| No. | Freq. | Reading_Level (dBuV) | | | | Correct Factor | Measurement (dBuV) | | Limit (dBuV) | | Margin (dB) | | P/F | Comment |
|-----|--------|-------------------------|----|-------|-------|-------------------|-----------------------|-------|-----------------|-------|----------------|--------|-----|---------|
| | (MHz) | Peak | QP | AVG | dB | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.1859 | 43.51 | | 34.66 | 10.20 | 53.71 | | 44.86 | 64.21 | 54.21 | -10.50 | -9.35 | Р | |
| 2 | 0.4698 | 36.02 | | 19.26 | 10.38 | 46.40 | | 29.64 | 56.52 | 46.52 | -10.12 | -16.88 | Р | |
| 3 | 0.7780 | 38.36 | | 23.98 | 10.30 | 48.66 | | 34.28 | 56.00 | 46.00 | -7.34 | -11.72 | Р | |
| 4 | 1.3619 | 37.76 | | 25.86 | 10.38 | 48.14 | | 36.24 | 56.00 | 46.00 | -7.86 | -9.76 | Р | |
| 5 | 3.5179 | 35.38 | | 23.07 | 10.51 | 45.89 | | 33.58 | 56.00 | 46.00 | -10.11 | -12.42 | Р | |
| 6 | 7.2579 | 33.76 | | 20.90 | 10.34 | 44.10 | | 31.24 | 60.00 | 50.00 | -15.90 | -18.76 | Р | |

LINE CONDUCTED EMISSION TEST-N



| No. | Freq. | Rea | iding_L (dBuV) | | Correct Measuremen Factor (dBuV) | | | Limit (dBuV) | | Margin (dB) | | P/F | Comment | |
|-----|---------|-------|-------------------|-------|-------------------------------------|-------|----|-----------------|-------|----------------|-------|--------|---------|--|
| | (MHz) | Peak | QP | AVG | dB | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.1819 | 45.19 | | 34.02 | 10.20 | 55.39 | | 44.22 | 64.39 | 54.39 | -9.00 | -10.17 | Р | |
| 2 | 0.5299 | 37.60 | | 22.52 | 10.37 | 47.97 | | 32.89 | 56.00 | 46.00 | -8.03 | -13.11 | Р | |
| 3 | 0.8458 | 38.86 | | 25.97 | 10.34 | 49.20 | | 36.31 | 56.00 | 46.00 | -6.80 | -9.69 | Р | |
| 4 | 1.3460 | 38.63 | | 26.05 | 10.38 | 49.01 | | 36.43 | 56.00 | 46.00 | -6.99 | -9.57 | Р | |
| 5 | 3.4860 | 38.52 | | 24.61 | 10.51 | 49.03 | | 35.12 | 56.00 | 46.00 | -6.97 | -10.88 | Р | |
| 6 | 17.0699 | 41.87 | | 22.67 | 10.13 | 52.00 | | 32.80 | 60.00 | 50.00 | -8.00 | -17.20 | Р | |

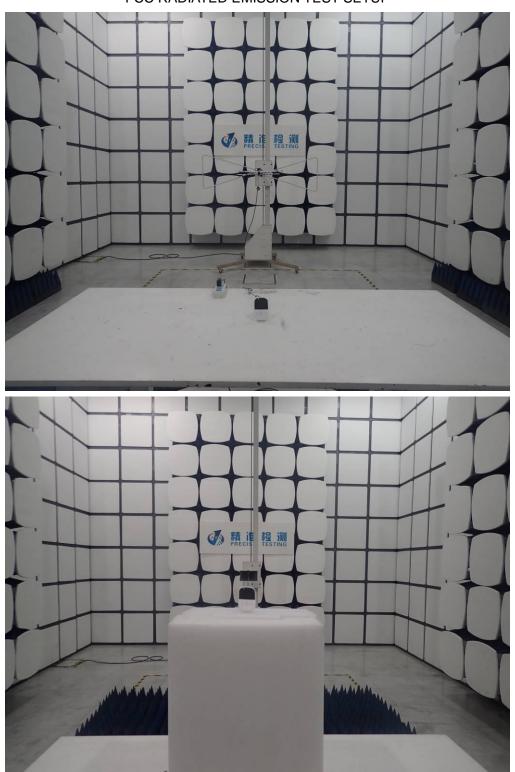
RESULT: PASS

Note: The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

Report No.: AGC02009170504FE03 Page 50 of 57

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



Report No.: AGC02009170504FE03 Page 51 of 57

FCC CONDUCTED EMISSION TEST SETUP



Page 52 of 57

APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



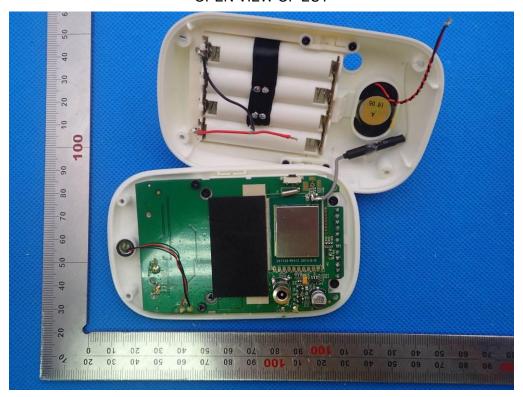
LEFT VIEW OF EUT



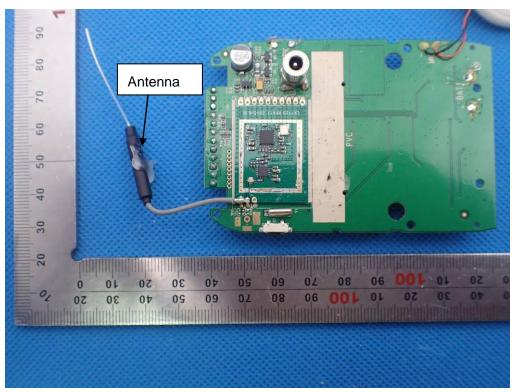
RIGHT VIEW OF EUT



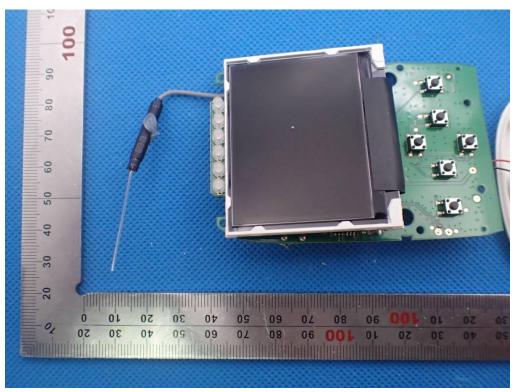
OPEN VIEW OF EUT



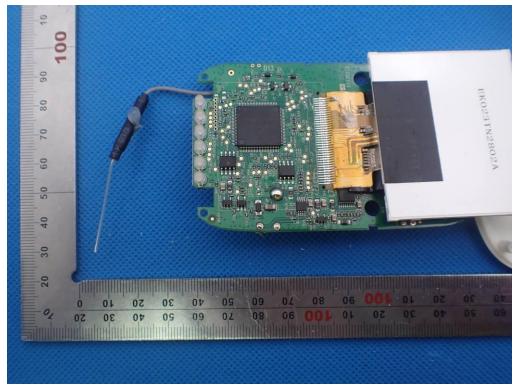
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----