

FCC Test Report

Report No.: AGC01559200920FE05

| FCC ID | : 2AANZROAST |
|----------------------------------|--|
| APPLICATION PURPOSE | : Original Equipment |
| PRODUCT DESIGNATION | : Quirky Smart Home Coffee Machine and Grinder |
| BRAND NAME | : Quirky |
| MODEL NAME | : QKY-ROAST, QKY-ROAST-SLV, NOR-ROAST-SLV |
| APPLICANT | : DGL Group LTD. |
| DATE OF ISSUE | : Oct. 23, 2020 |
| STANDARD(S) TEST PROCEDURE(S) | : FCC Part 15.247 |
| REPORT VERSION | : V1.0 |

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REPORT REVISE RECORD

| | Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|----------------|-------------|---------------|---------------|-----------------|
| l | V1.0 | / | Oct. 23, 2020 | Valid | Initial Release |

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1. VERIFICATION OF CONFORMITY

| Applicant | DGL Group LTD. |
|--------------------------|---|
| Address | 195 Raritan Center Parkway Edison, New Jersey United States 08837 |
| manufacturer | DGL Group LTD. |
| Address | 195 Raritan Center Parkway Edison, New Jersey United States 08837 |
| Product Designation | Quirky Smart Home Coffee Machine and Grinder |
| Brand Name | Quirky |
| Test Model | QKY-ROAST |
| Series Model | QKY-ROAST-SLV, NOR-ROAST-SLV |
| Difference description | All the series models are the same as the test model except for the model names and the color of appearance. |
| Date of test | Sep. 22, 2020 to Oct. 23, 2020 |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | AGCRT-US-BGN/RF |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) 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.

Prepared By

Zurk. Jang

Erik Yang (Project Engineer)

Oct. 23, 2020

Reviewed By

Max Zhang

Max Zhang (Reviewer)

Oct. 23, 2020

Approved By

Forrest Lei (Authorized Officer)

Oct. 23, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "QUIRKY SMART HOME COFFEE MACHINE AND GRINDER". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

| Operation Frequency | 2.412 GHz~2.462GHz |
|----------------------------|--|
| Output Power(Average) | IEEE 802.11b:9.78dBm; IEEE 802.11g:10.33dBm; IEEE 802.11n(20):9.41dBm |
| Output Power(Peak) | IEEE 802.11b:12.72dBm; IEEE 802.11g:18.83dBm; IEEE 802.11n(20):17.72dBm |
| Modulation | DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM) |
| Number of channels | 11 |
| Hardware Version | KFJ182-KB-V2.1 |
| Software Version | V1.2 |
| Antenna Designation | Integral antenna |
| Antenna Gain | 2.5dBi |
| Power Supply | AC 120V 60Hz |
| | |

2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| | 。1 | 2412 MHZ |
| | 2 | 2417 MHZ |
| | 3 | 2422 MHZ |
| | 4 | 2427 MHZ |
| | 5 | 2432 MHZ |
| 2400~2483.5MHZ | 6 | 2437 MHZ |
| | 7 | 2442 MHZ |
| | 8 | 2447 MHZ |
| | 9 | 2452 MHZ |
| NO - C | 10 | 2457 MHZ |
| | 11 | 2462 MHZ |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11.

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2.3. IEEE 802.11N MODULATION SCHEME

| MCS Index | Nss | Modulation | R | NBPSC | NCI | BPS | NDI | BPS | rate(| ata Mbps) nsGl |
|--------------|----------------|------------|-----|-------|-------|-------|-------|-------|-------|----------------------|
| macx | | | | | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz | 40MHz |
| 0 | 1 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 |
| 1 🔊 | 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 |
| 2 | 1 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 |
| 3 | 1 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 |
| 4 | 1 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 |
| 5 | 1 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 |
| 6 | 1 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 489 | 58.5 | 121.5 |
| 7 | [©] 1 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 |

| Symbol | Explanation |
|--------|---|
| NSS | Number of spatial streams |
| R | Code rate |
| NBPSC | Number of coded bits per single carrier |
| NCBPS | Number of coded bits per symbol |
| NDBPS | Number of data bits per symbol |
| GI | Guard interval |

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

This submittal(s) (test report) is intended for **FCC ID: 2AANZROAST** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmissio n system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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2.8. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in

- measurement" (GUM) published by CISPR and ANSI.
- Uncertainty of Conducted Emission, $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|--------|--|
| 1 | Low channel TX(2412MHz) |
| 2 | Middle channel TX(2437MHz) |
| 3 | High channel TX(2462MHz) |
| Transm | it by 802.11b with Date rate (1/2/5.5/11) it by 802.11g with Date rate (6/9/12/18/24/36/48/54) it by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65) |

Note:

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. The test software is the UI_mptool_1V16 which can set the EUT into the individual test modes.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

| lt | em | Equipment | Model No. | ID or Specification | Remark |
|----|----|---|-----------|---------------------|--------|
| C | 1 | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | QKY-ROAST | 2AANZROAST | EUT |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|---|-----------|
| §15.247 | Output Power | Compliant |
| §15.247 | 6 dB Bandwidth | Compliant |
| §15.247 | Conducted Spurious Emission | Compliant |
| §15.247 | Maximum Conducted Output Power Spectral Density | Compliant |
| §15.209 | Radiated Emission | Compliant |
| §15.247 | Band Edges | Compliant |
| §15.207 | Line Conduction Emission | Compliant |

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6. TEST FACILITY

| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd | | |
|--------------------------------------|---|--|--|
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China | | |
| Designation Number | CN1259 | | |
| FCC Test Firm Registration Number | 975832 | | |
| A2LA Cert. No. | 5054.02 | | |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA | | |

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------|--------------|------------------|--------|--------------|--------------|
| TEST RECEIVER | R&S | ESPI | 101206 | May 15, 2020 | May 14, 2021 |
| LISN | R&S | ESH2-Z5 | 100086 | Jul. 03,2020 | Jul. 02,2021 |
| Test software | R&S | ES-K1(Ver.V1.71) | N/A | N/A | N/A |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|----------------|------------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | May 15, 2020 | May 14, 2021 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 12, 2019 | Dec. 11, 2020 |
| Power sensor | Aglient | U2021XA | MY54110007 | Jun. 08, 2020 | Jun. 07, 2021 |
| 2.4GHz Fliter | Micro-tronics | 087 | N/A | Feb. 26, 2020 | Feb. 25, 2021 |
| Attenuator | Weinachel Corp | 58-30-33 | N/A | Sep. 09, 2019 | Sep. 08, 2021 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep.21, 2019 | Sep. 20, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | May 22, 2020 | May 21, 2022 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 00034609 | May. 17, 2019 | May. 16, 2021 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May. 17, 2019 | May. 16, 2021 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Oct. 15, 2019 | Oct. 16, 2021 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Sep. 20, 2019 | Sep. 19, 2021 |
| Test software | FARA | EZ-EMC (Ver RA-03A) | N/A | N/A | N/A |

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7. OUTPUT POWER

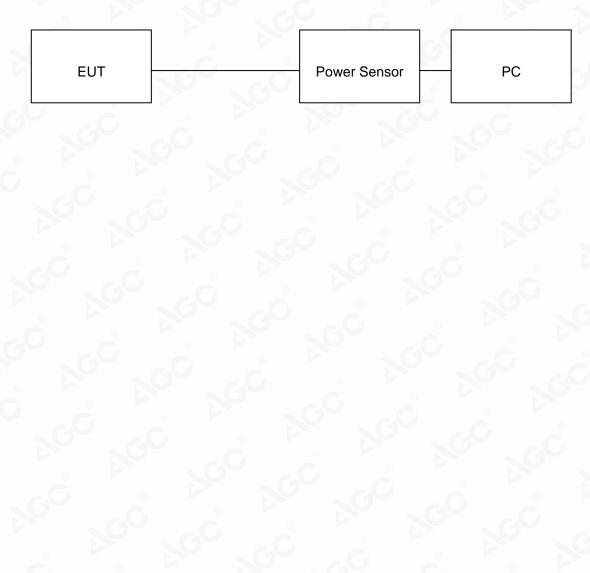
7.1. MEASUREMENT PROCEDURE

For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note : The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

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



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7.3. LIMITS AND MEASUREMENT RESULT

| TEST ITEM | OUTPUT POWER |
|-----------|--------------------------|
| TEST MODE | 802.11b with data rate 1 |

| Frequency (GHz) | Average Power (dBm) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|--------------------|------------------------|---------------------|----------------------------|--------------|
| 2.412 | 9.47 | 12.40 | 30 | Pass |
| 2.437 | 9.49 | 12.51 | 30 | Pass |
| 2.462 | 9.78 | 12.72 | 30 | Pass |

| TEST ITEM | OUTPUT POWER |
|-----------|--------------------------|
| TEST MODE | 802.11g with data rate 6 |

| Frequency (GHz) | Average Power (dBm) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|--------------------|------------------------|---------------------|----------------------------|--------------|
| 2.412 | 9.86 | 17.95 | 30 | Pass |
| 2.437 | 9.49 | 17.58 | 30 | Pass |
| 2.462 | 10.33 | 18.83 | 30 | Pass |

| TEST ITEM | OUTPUT POWER |
|-----------|-------------------------------|
| TEST MODE | 802.11n 20 with data rate 6.5 |

| Frequency (GHz) | Average Power (dBm) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|--------------------|------------------------|---------------------|----------------------------|--------------|
| 2.412 | 9.37 | 17.58 | 30 | Pass |
| 2.437 | 9.01 | 17.52 | 30 | Pass |
| 2.462 | 9.41 | 17.72 | 30 | Pass |

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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

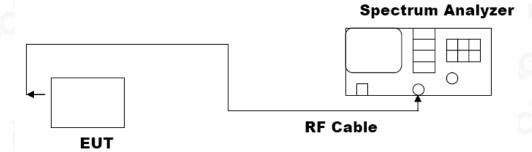
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.

- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

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



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8.3. LIMITS AND MEASUREMENT RESULTS

| TEST ITEM | 6DB BANDWIDTH |
|-----------|---------------------------|
| TEST MODE | 802.11b with data rate 11 |

LIMITS AND MEASUREMENT RESULT

| Angliachte Limite | | Applicable Limits | |
|-------------------|----------------|-------------------|------|
| Applicable Limits | Test Data | Criteria | |
| | Low Channel | 10.09 | PASS |
| >500KHZ | Middle Channel | 10.09 | PASS |
| | High Channel | 10.07 | PASS |

| TEST ITEM | 6DB BANDWIDTH | 0 | |
|-----------|---------------------------|---|---|
| TEST MODE | 802.11g with data rate 54 | | 8 |

| LIMITS AND MEASUREMENT RESULT | | | | | |
|-------------------------------|-------------------|----------|------|--|--|
| | Applicable Limits | | | | |
| Applicable Limits | Test Data | Criteria | | | |
| | Low Channel | 16.37 | PASS | | |
| >500KHZ | Middle Channel | 16.38 | PASS | | |
| | High Channel | 16.37 | PASS | | |

| TEST ITEM | 6DB BANDWIDTH | | | - CO |
|-----------|------------------------------|---|---|------|
| TEST MODE | 802.11n 20 with data rate 65 | ° | 6 | |

| | LIMITS AND MEASU | REMENT RESULT | | | |
|-------------------|-------------------|---------------|------|--|--|
| Angliachte Limite | Applicable Limits | | | | |
| Applicable Limits | Test Data | Criteria | | | |
| 8 | Low Channel | 17.34 | PASS | | |
| >500KHZ | Middle Channel | 17.56 | PASS | | |
| | High Channel | 17.34 | PASS | | |

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802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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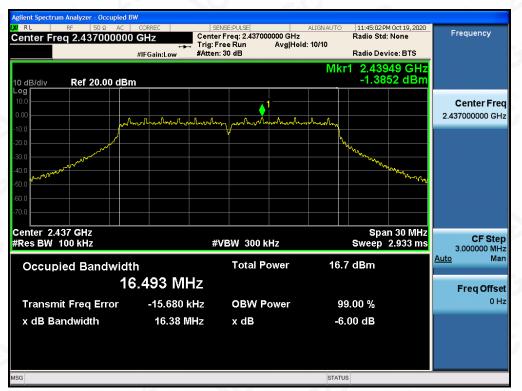
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

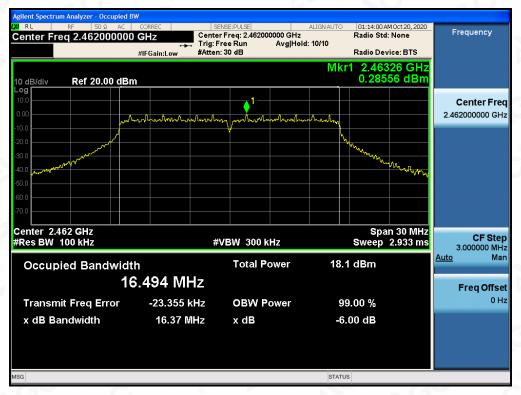


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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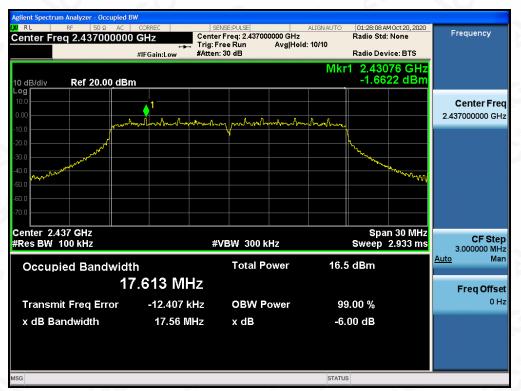




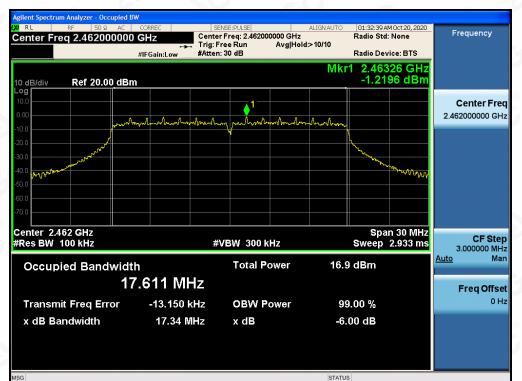
802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

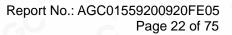


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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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 SPA Trace 1 Max hold, then View.
- **Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

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

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USEDJN

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEA | SUREMENT RESULT | | |
|---|---|----------|--|
| | Measurement Result | | |
| Applicable Limits | Test Data | Criteria | |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum | At least -20dBc than the limit Specified on the BOTTOM Channel | PASS | |
| intentional radiator is operating, the radio frequency 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. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)) | At least -20dBc than the limit Specified on the TOP Channel | PASS | |

Note: The limits reference level is according to the test plot of -6dB bandwidth.

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL

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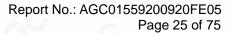


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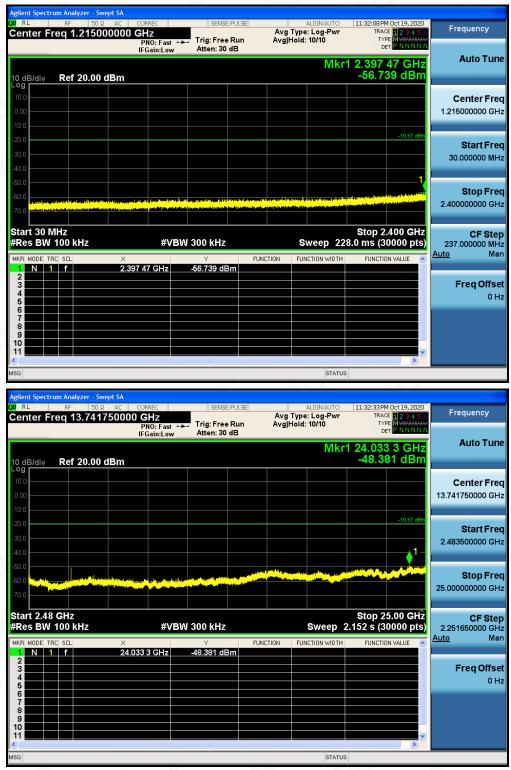
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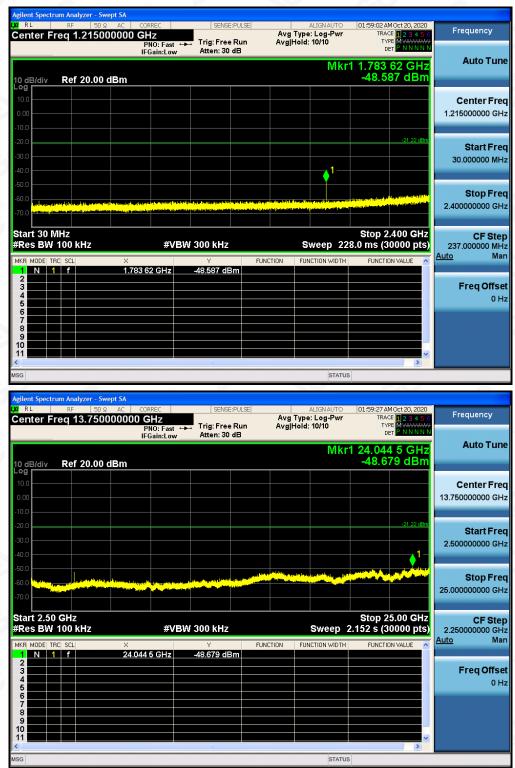




TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL

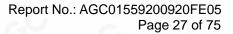
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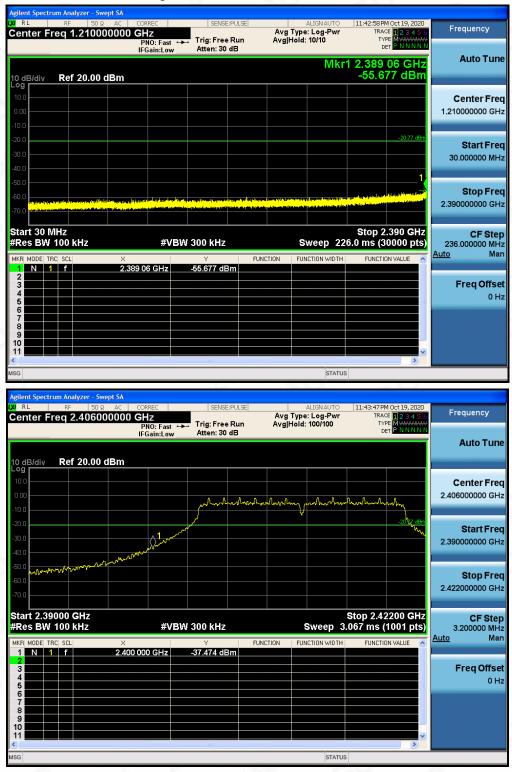


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL

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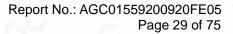


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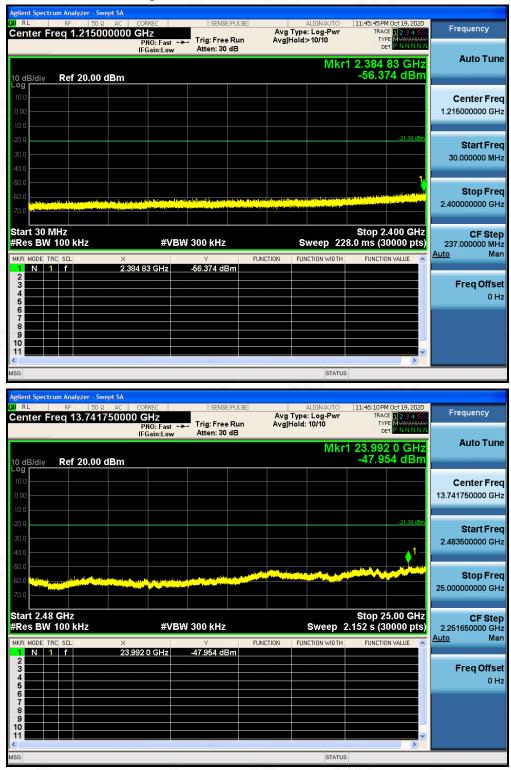
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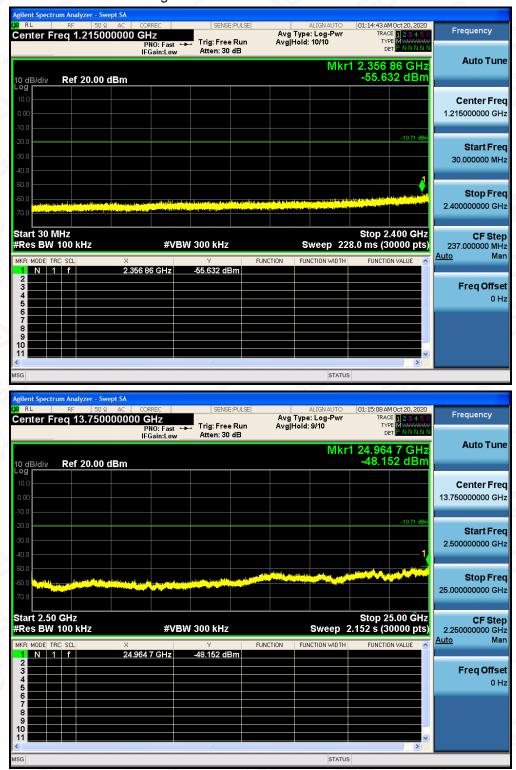




TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL

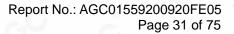
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN HIGH CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL

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| | rum Analyzer - S | | | | | | | | | |
|---------------------------------|---------------------|-------------|------------------------|------------------------------|------|-----------|-----------|---------------------------|--|--|
| Center F | RF 50 req 13.741 | 750000 | | SENSE: | | Avg Type | ALIGNAUTO | TRAC | MOct 20, 2020 CE 1 2 3 4 5 6 PE MWWWWW | Frequency |
| 10 dB/div | Ref 20.00 | IF | NO: Fast ↔ Gain:Low | Atten: 30 | | Avg Hold: | | ۵ <mark>1 24.03</mark> | 1 8 GHz 36 dBm | Auto Tune |
| Log 10.00 -10.0 | | | | | | | | | | Center Freq 13.741750000 GHz |
| -20.0 -30.0 -40.0 | | | | | | | | | 0 dBm | Start Freq 2.483500000 GHz |
| -50.0 -60.0 -70.0 | | | | | | | | | and the second | Stop Freq 25.00000000 GHz |
| Start 2.48 #Res BW | 100 kHz | × 24.031 | | V 300 kHz Y -47.136 dB | FUNC | | Sweep 2 | 2.152 s (3 | 5.00 GH2 0000 pts) ^{DN VALUE} | CF Step 2.251650000 GHz <u>Auto</u> Man |
| 2 3 4 5 6 7 8 | | | | | | | | | | Freq Offset 0 Hz |
| 9 10 11 < | | | | | | | STATUS | | × | |

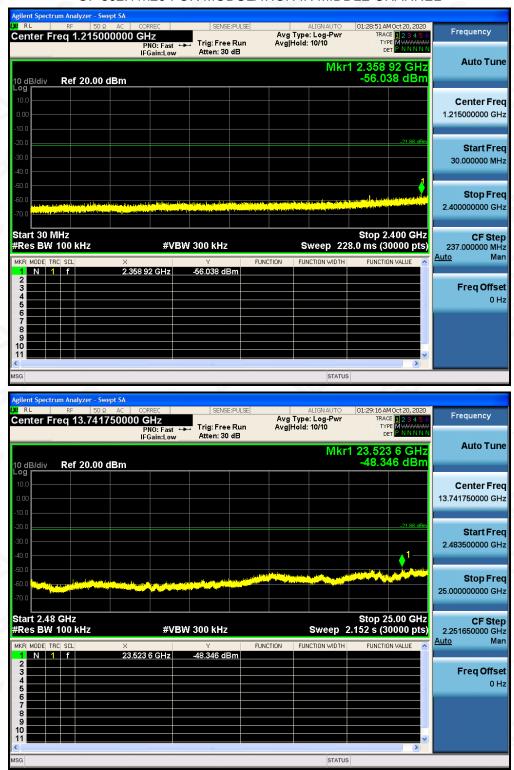
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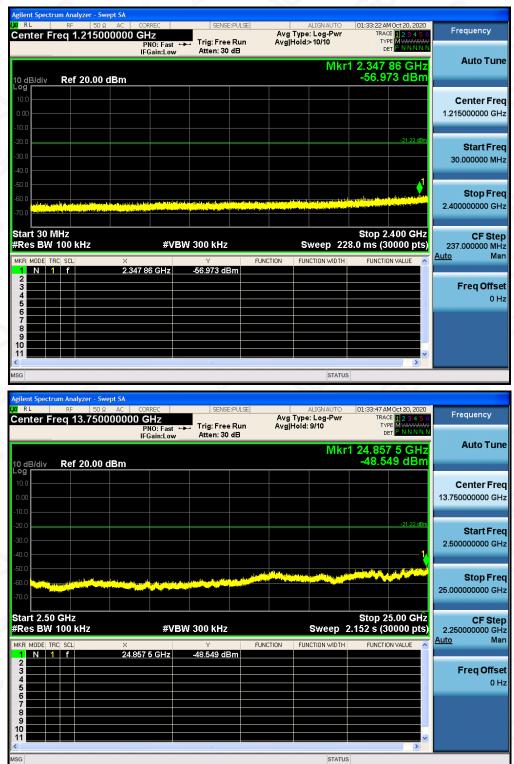




TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated

emission limits specified.

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

| TEST ITEM | POWER SPECTRAL DENSITY |
|-----------|--------------------------|
| TEST MODE | 802.11b with data rate 1 |

| Channel No. | Power density (dBm/20kHz) | Limit (dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel | -4.358 | 8 | Pass |
| Middle Channel | -4.360 | 8 | Pass |
| High Channel | -4.052 | 8 | Pass |

| TEST ITEM | POWER SPECTRAL DENSITY | | | |
|-----------|--------------------------|-----|---|---|
| TEST MODE | 802.11g with data rate 6 | c.C | 0 | ® |

| Channel No. | Power density (dBm/20kHz) | Limit (dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel | -7.194 | 8 | Pass |
| Middle Channel | -7.465 | 8 | Pass |
| High Channel | -6.615 | 8 | Pass |

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| TEST ITEM | POWER SPECTRAL DENSITY |
|-----------|-------------------------------|
| TEST MODE | 802.11n 20 with data rate 6.5 |
| | |

| Channel No. | Power density (dBm/20kHz) | Limit (dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel | -8.448 | 8 | Pass |
| Middle Channel | -8.467 | 8 | Pass |
| High Channel | -8.425 | 8 | Pass |

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802.11b TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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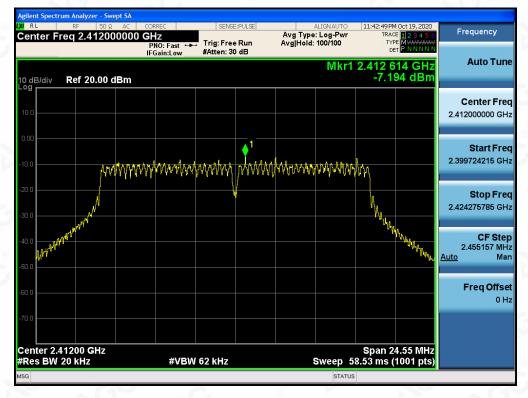




TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

Frequency Avg Type: Log-Pw Avg|Hold: 100/100 Center Freq 2.462000000 GHz Trig: Free Run PNO: Fast ← IFGain:Low #Atten: 30 dB Auto Tune Mkr1 2.464 480 GH -6.615 dBm Ref 20.00 dBm I0 dB/div og **Center Freq** 2.462000000 GHz NWWW ᠕/ᠵᢦᢣᠰᢦᢦᢦᢦ᠕ᡐᡐᡀᡘᡢ᠕ᠰ ለላላዋላዮላታ ₡₮₡₮₡₮₡₮₽₽₽₽₽ Start Freq 2.449722673 GHz Stop Freq 2.474277327 GHz Span 24.55 MHz Sweep 58.53 ms (1001 pts) Center 2.46200 GHz #Res BW 20 kHz CF Step 2.455465 MHz #VBW 62 kHz Mar Auto FUNCTION FUNCTION WIDTH FUNCTION VALUE -47.954 dBm 23.992 0 GHz Freg Offset 0 Hz STATUS

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

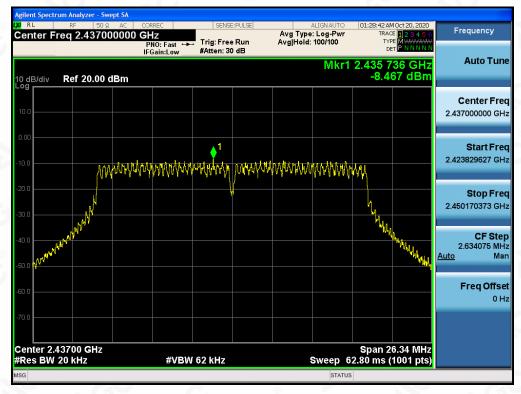
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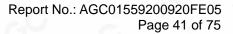


802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

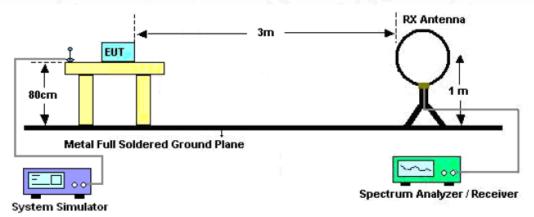
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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 RBW and 3MHz VBW for peak reading. 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.

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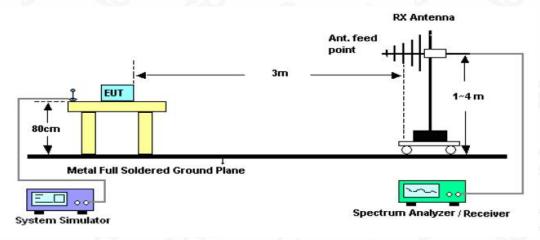


11.2. TEST SETUP

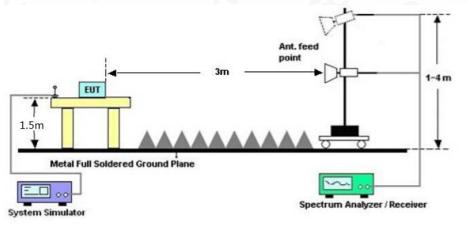
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. 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.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

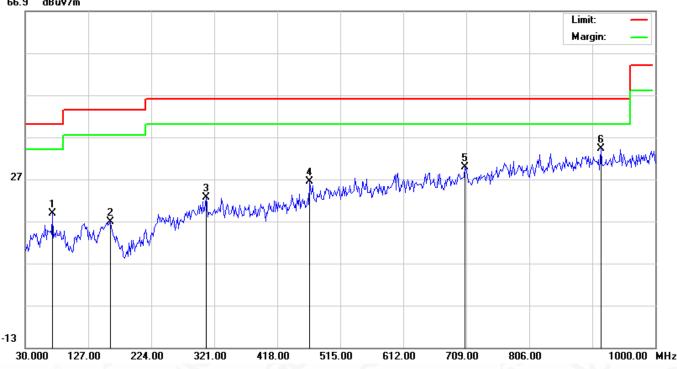
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHZ

| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Horizontal |

dBu¥/m 66.9



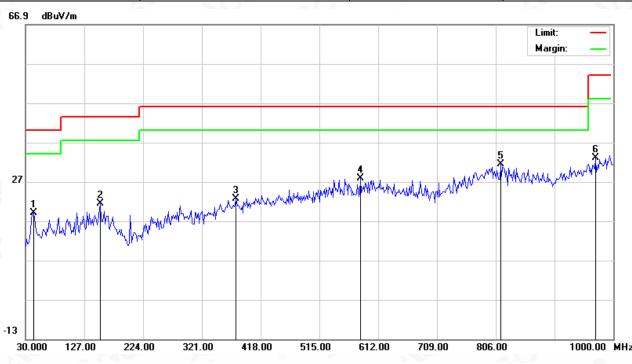
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∨ | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 72.0333 | 2.04 | 16.67 | 18.71 | 40.00 | -21.29 | peak |
| 2 | | 160.9500 | -2.07 | 18.81 | 16.74 | 43.50 | -26.76 | peak |
| 3 | 3 | 308.0667 | 1.08 | 21.43 | 22.51 | 46.00 | -23.49 | peak |
| 4 | 4 | 468.1167 | 2.65 | 23.71 | 26.36 | 46.00 | -19.64 | peak |
| 5 | 7 | 707.3832 | 1.52 | 28.32 | 29.84 | 46.00 | -16.16 | peak |
| 6 | * (| 915.9333 | 2.32 | 31.84 | 34.16 | 46.00 | -11.84 | peak |

RESULT: PASS

mplian Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written of the report is not permitten of the report is not permitten of the report is not p Dedicated Fe /Inspection apphorization of AC he test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da ne test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Vertical |



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∨ | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 42.9333 | 4.40 | 14.69 | 19.09 | 40.00 | -20.91 | peak |
| 2 | | 152.8667 | 2.19 | 19.20 | 21.39 | 43.50 | -22.11 | peak |
| 3 | | 377.5833 | 0.36 | 22.19 | 22.55 | 46.00 | -23.45 | peak |
| 4 | | 582.8999 | 1.22 | 26.61 | 27.83 | 46.00 | -18.17 | peak |
| 5 | * | 814.0833 | 1.28 | 30.03 | 31.31 | 46.00 | -14.69 | peak |
| 6 | | 970.8999 | 1.77 | 31.15 | 32.92 | 54.00 | -21.08 | 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 802.11b at low channel is the worst case and recorded in the report. Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the steelicated recorded in the report.

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| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Horizontal |

RADIATED EMISSION ABOVE 1GHZ

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4824.000 | 56.91 | 0.08 | 56.99 | 74 | -17.01 | peak |
| 4824.000 | 47.17 | 0.08 | 47.25 | 54 | -6.75 | AVG |
| 7236.000 | 51.48 | 2.21 | 53.69 | 74 | -20.31 | peak |
| 7236.000 | 40.83 | 2.21 | 43.04 | 54 | -10.96 | AVG |
| | | | | | | - C |
| | | | | | | |

| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4824.000 | 56.27 | 0.08 | 56.35 | 74 | -17.65 | peak |
| 4824.000 | 45.88 | 0.08 | 45.96 | 54 | -8.04 | AVG |
| 7236.000 | 51.3 | 2.21 | 53.51 | 74 | -20.49 | peak |
| 7236.000 | 41.51 | 2.21 | 43.72 | 54 | -10.28 | AVG |
| | | | C | 8 | | |
| | | | | | | |

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| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Tree |
|-----------|---------------|--------|----------------|----------|--------|--------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | - Value Type |
| 4874.000 | 56.31 | 0.14 | 56.45 | 74 | -17.55 | peak |
| 4874.000 | 45.15 | 0.14 | 45.29 | 54 | -8.71 | AVG |
| 7311.000 | 52.33 | 2.36 | 54.69 | 74 | -19.31 | peak |
| 7311.000 | 40.26 | 2.36 | 42.62 | 54 | -11.38 | AVG |
| | | @ | | | | (2) |
| | | | 8 | | | |
| emark: | | | | | | |

| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|--------------|------------------|------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4874.000 | 56.24 | 0.14 | 56.38 | 74 | -17.62 | peak |
| 4874.000 | 45.95 | 0.14 | 46.09 | 54 | -7.91 | AVG |
| 7311.000 | 52.1 | 2.36 | 54.46 | 74 | -19.54 | peak |
| 7311.000 | 41.33 | 2.36 | 43.69 | 54 | -10.31 | AVG |
| | 0 | C. | 8 | 6 | | |
| | | | C | 8 | | |
| emark: | | | | e e | | |
| actor = Ante | enna Factor + Ca | ble Loss – | Pre-amplifier. | | C | |

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| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHZ | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | |
|--------------|-----------------|-------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4924.000 | 56.24 | 0.22 | 56.46 | 74 | -17.54 | peak |
| 4924.000 | 44.31 | 0.22 | 44.53 | 54 | -9.47 | AVG |
| 7386.000 | 50.77 | 2.64 | 53.41 | 74 | -20.59 | peak |
| 7386.000 | 41.71 | 2.64 | 44.35 | 54 | -9.65 | AVG |
| 30 | G A | | 6 | | | |
| emark: | | | 0 | | | |
| actor = Ante | enna Factor + C | able Loss - | Pre-amplifier. | 8 | | |

| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|--|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHZ | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | |
|--------------|------------------|--------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4924.000 | 57.3 | 0.22 | 57.52 | 74 | -16.48 | peak |
| 4924.000 | 45.14 | 0.22 | 45.36 | 54 | -8.64 | AVG |
| 7386.000 | 56.17 | 2.64 | 58.81 | 74 | -15.19 | peak |
| 7386.000 | 40.79 | 2.64 | 43.43 | 54 | -10.57 | AVG |
| | 20 | ® | | 2 | 0 | |
| emark: | | 0 | | | | |
| actor = Ante | enna Factor + Ca | ble Loss – F | Pre-amplifier. | | | |

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

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.

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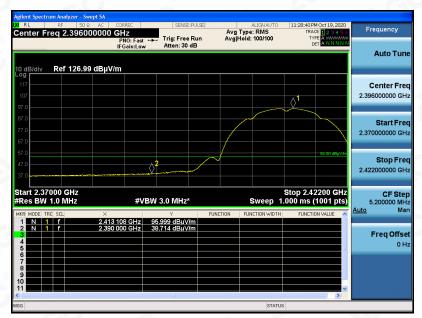
12.3. TEST RESULT

| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|---|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS

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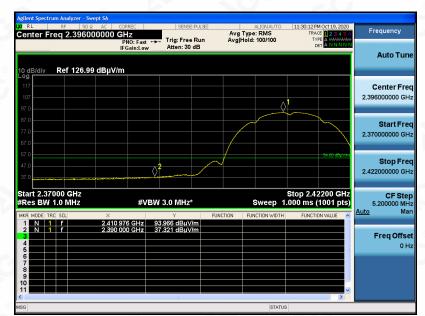
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| EUT | QUIRKY SMART HOME COFFEE MACHINE AND GRINDER | Model Name | QKY-ROAST |
|-------------|---|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |

ΡK







RESULT: PASS

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