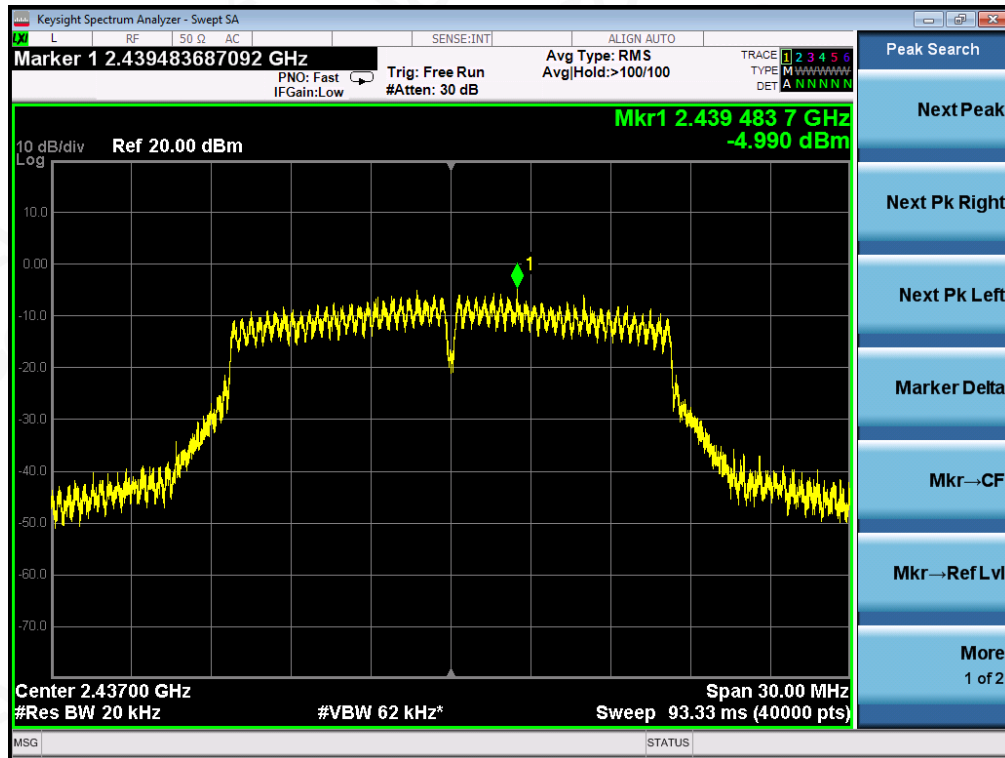
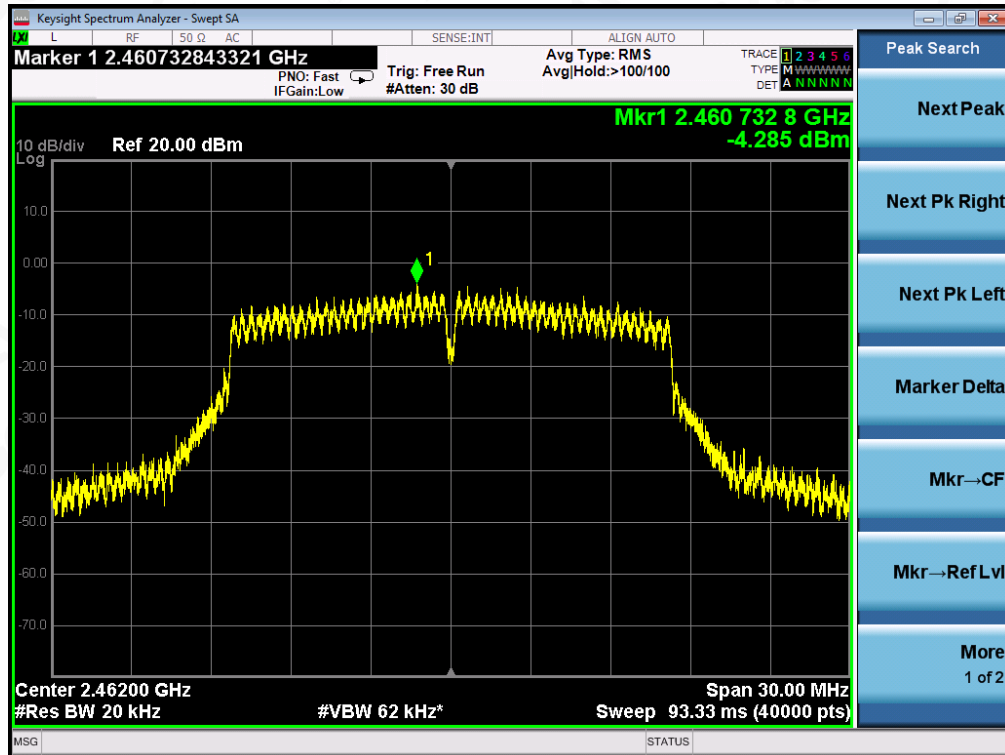


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

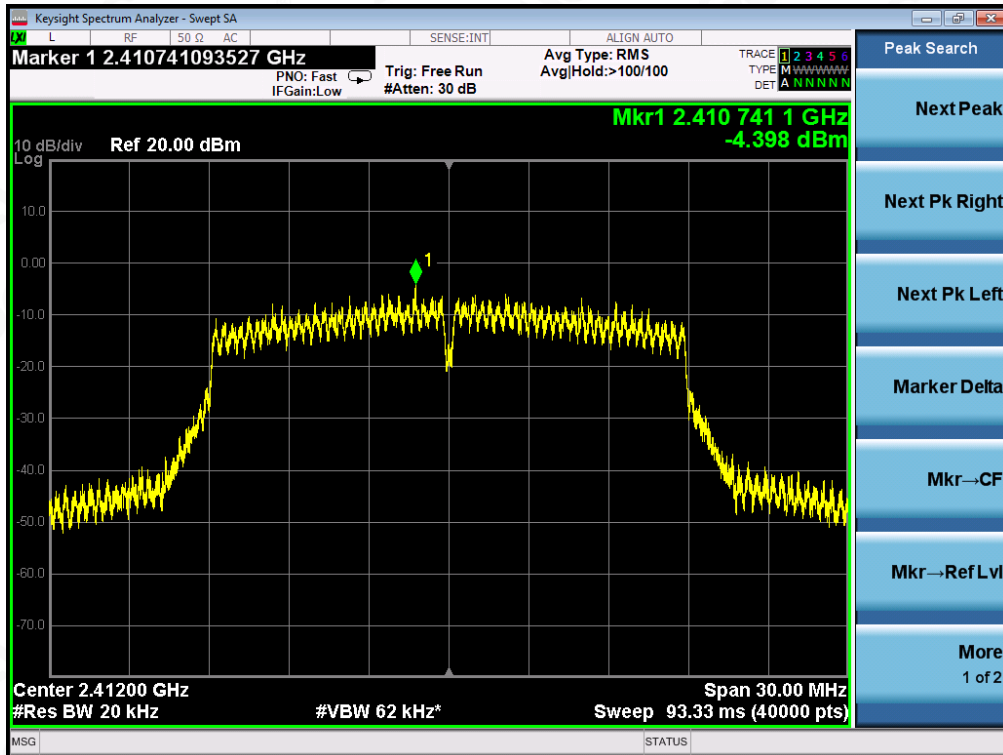
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

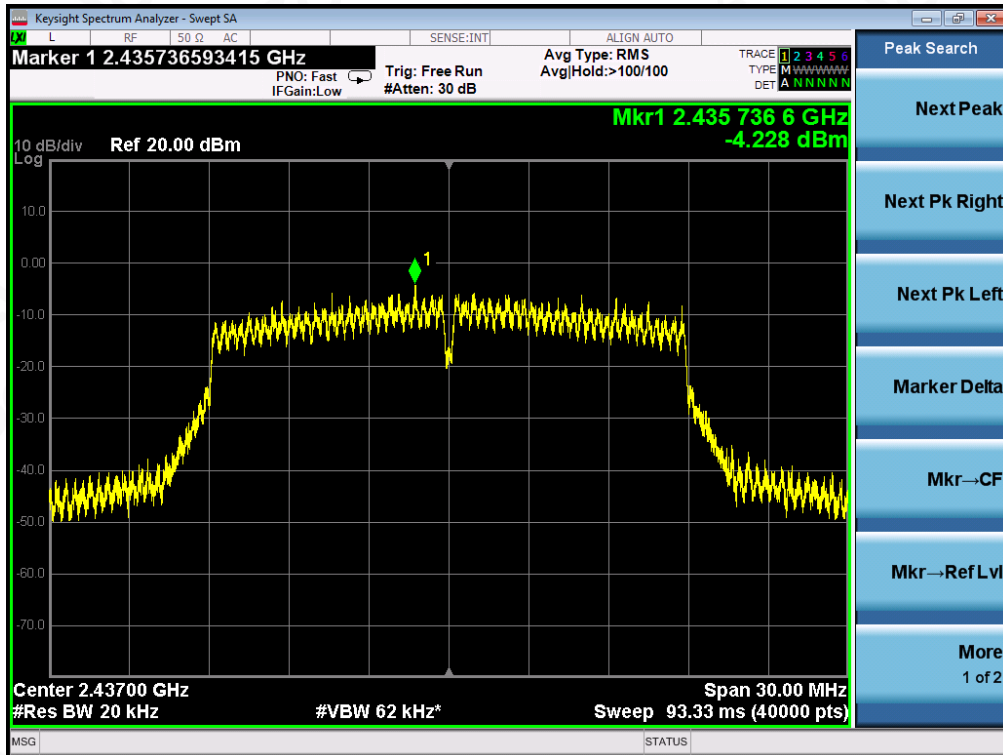
Service Hotline:400 089 2118

802.11n 20 TEST RESULT AT CHAIN 1

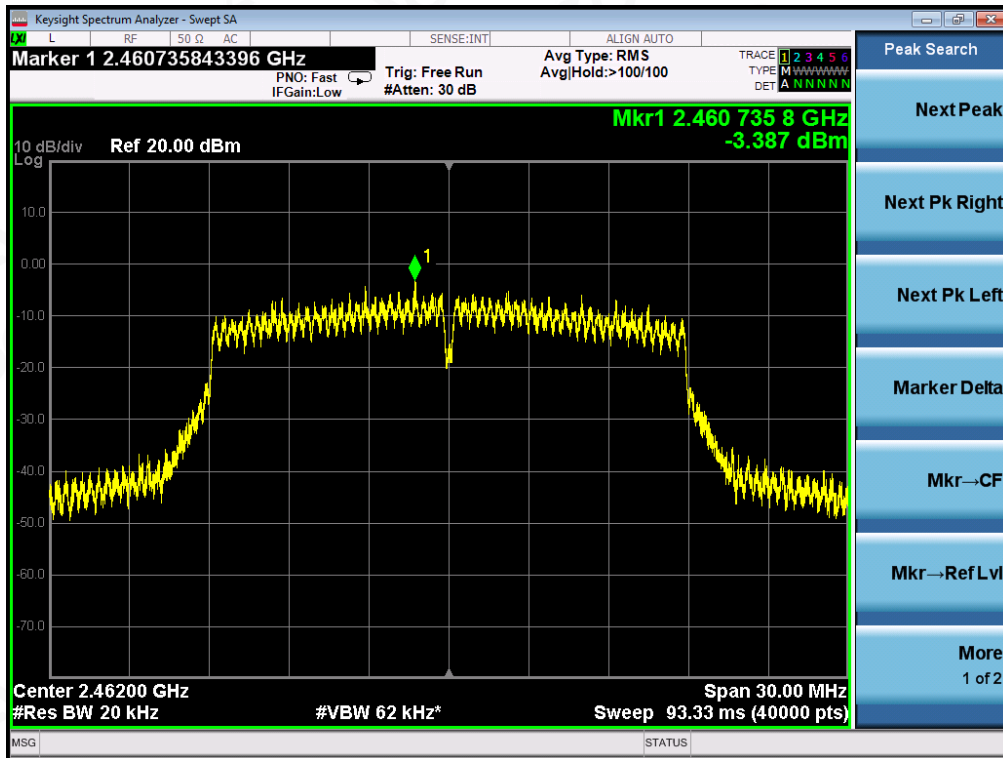
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

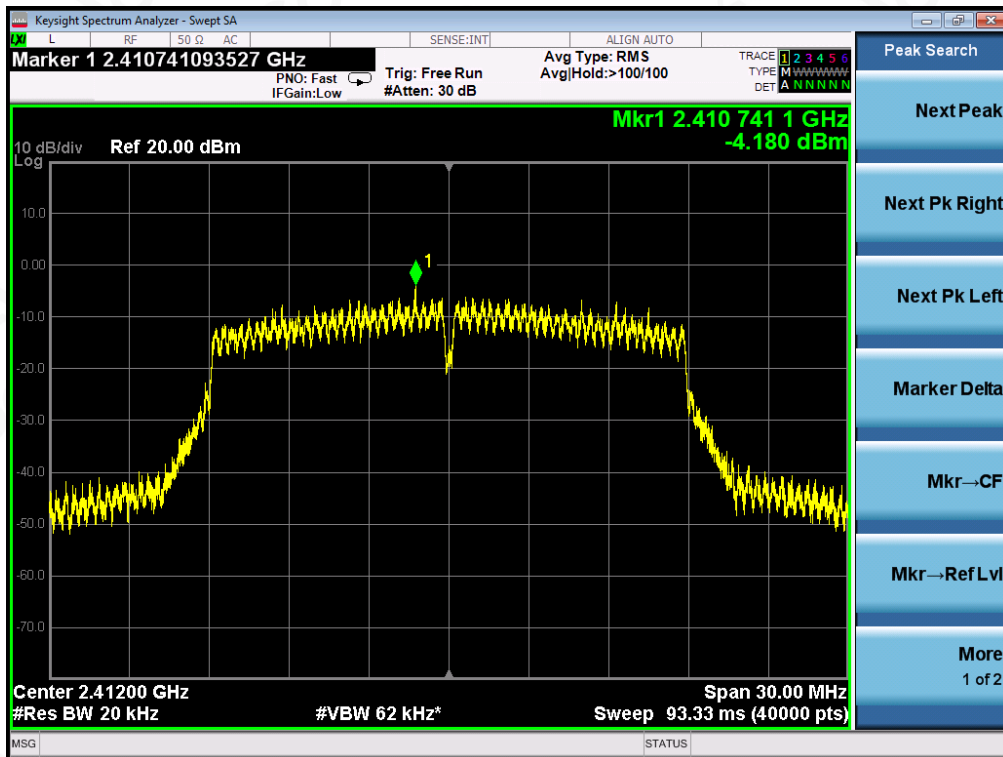


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11n 20 TEST RESULT AT CHAIN 2

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

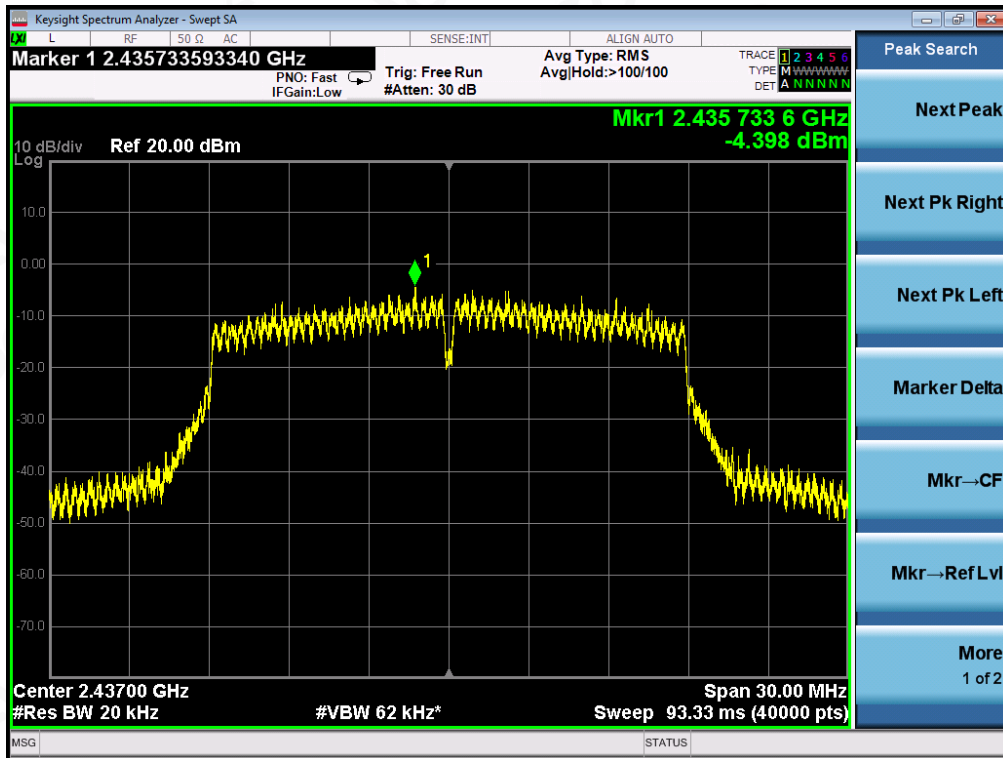
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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

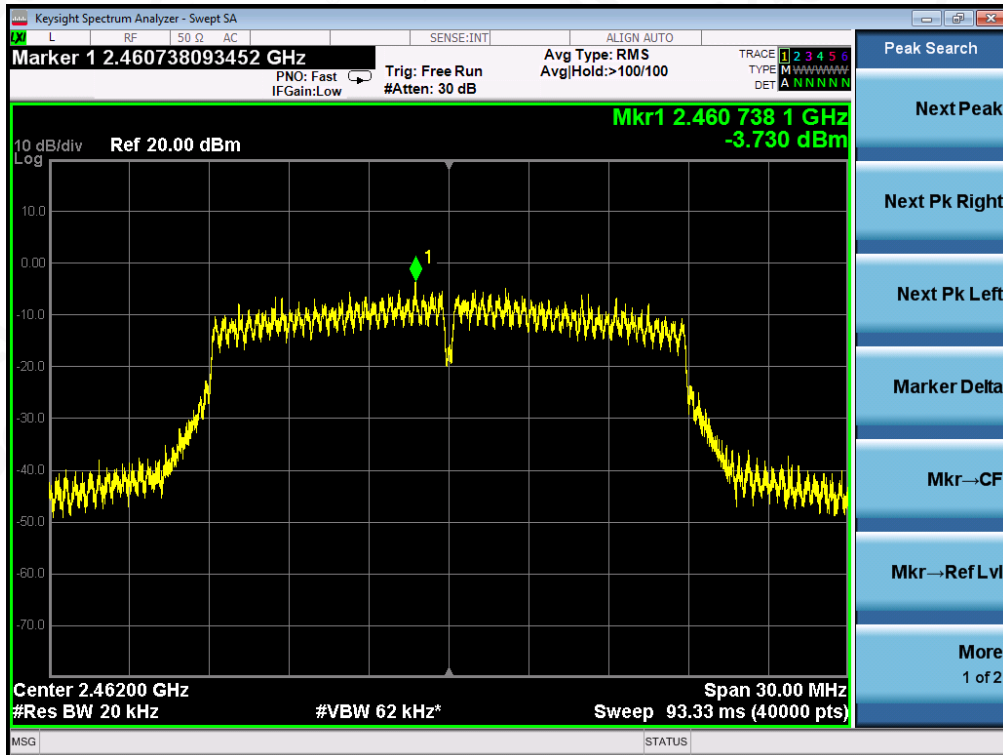
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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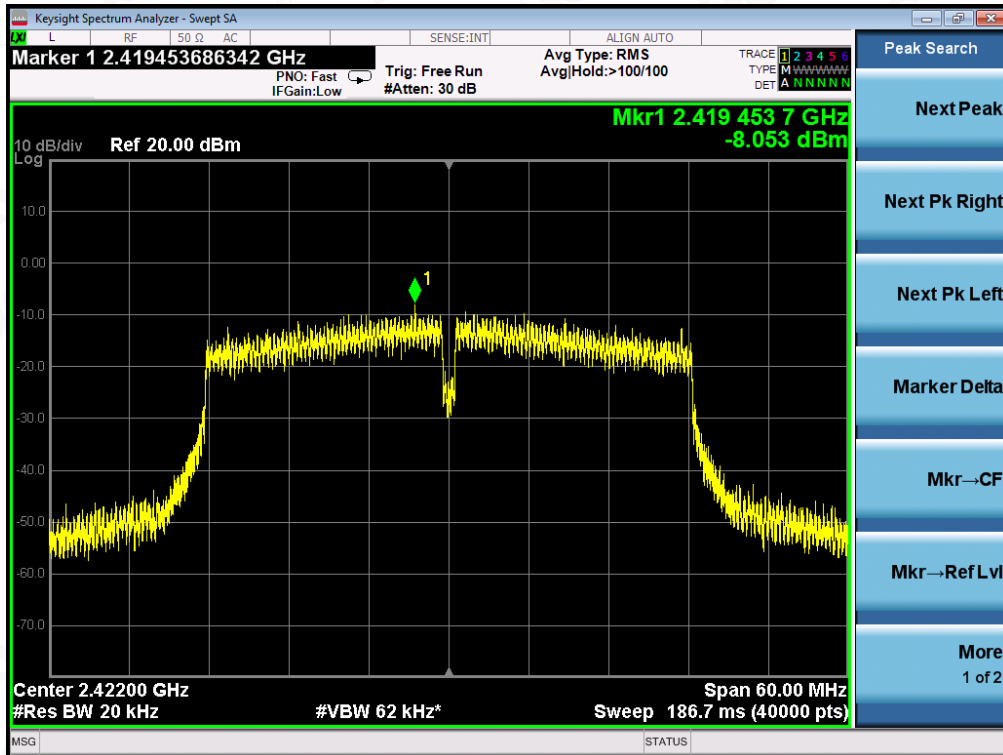
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

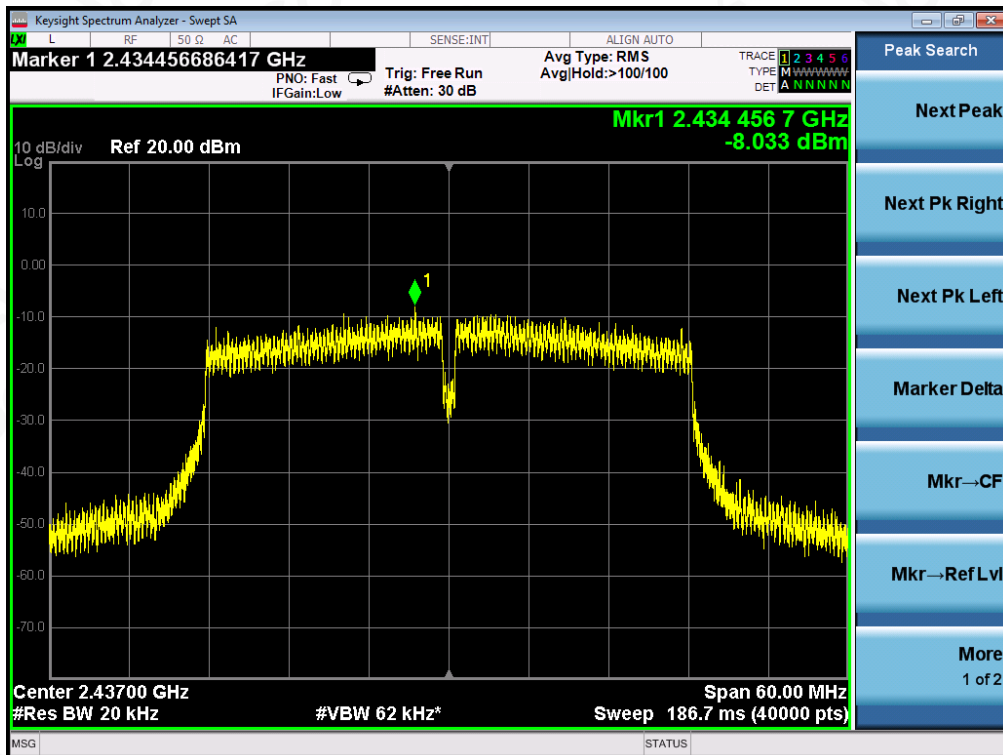
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

802.11n 40 TEST RESULT AT CHAIN 1 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



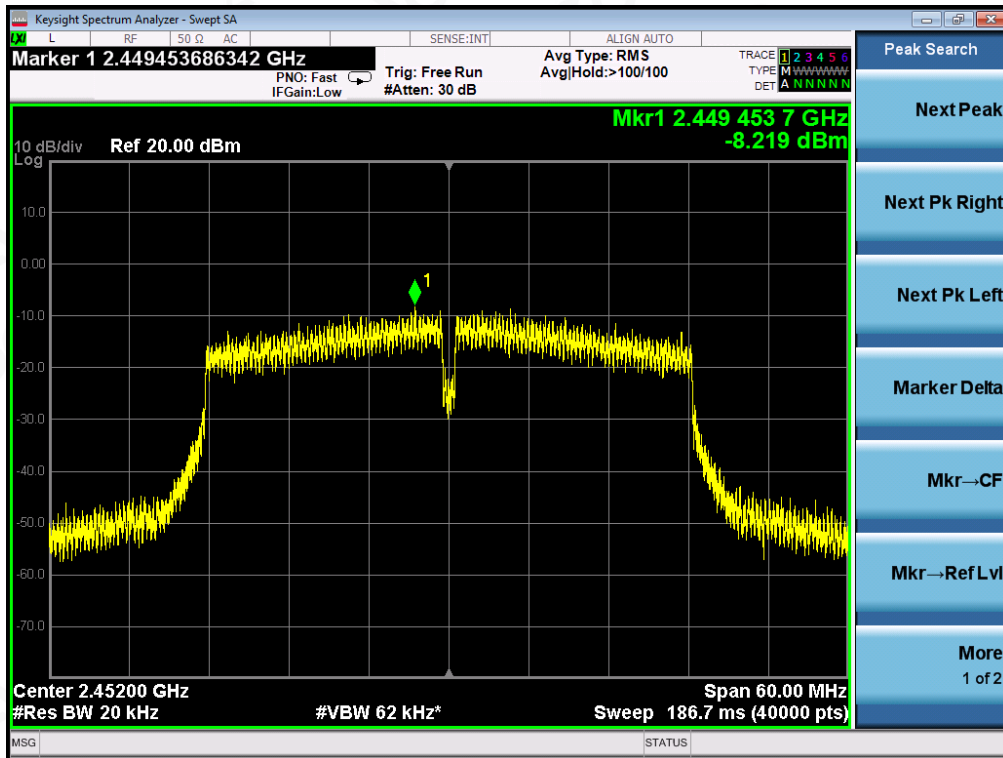
TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



Attestation of Global Compliance

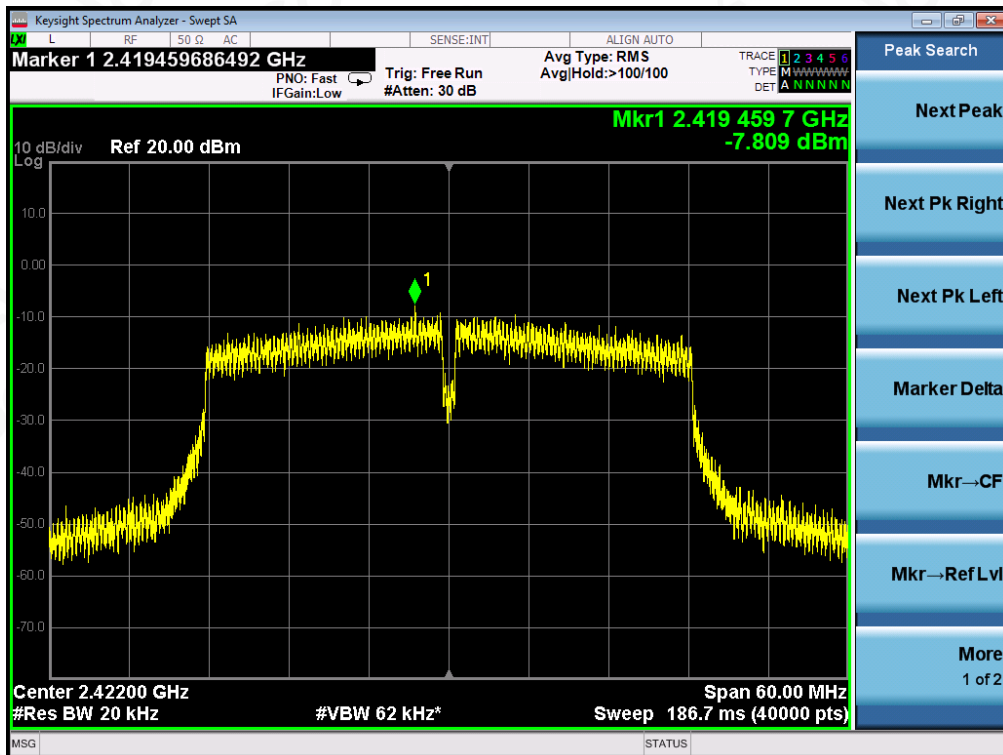
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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11n 40 TEST RESULT AT CHAIN 2

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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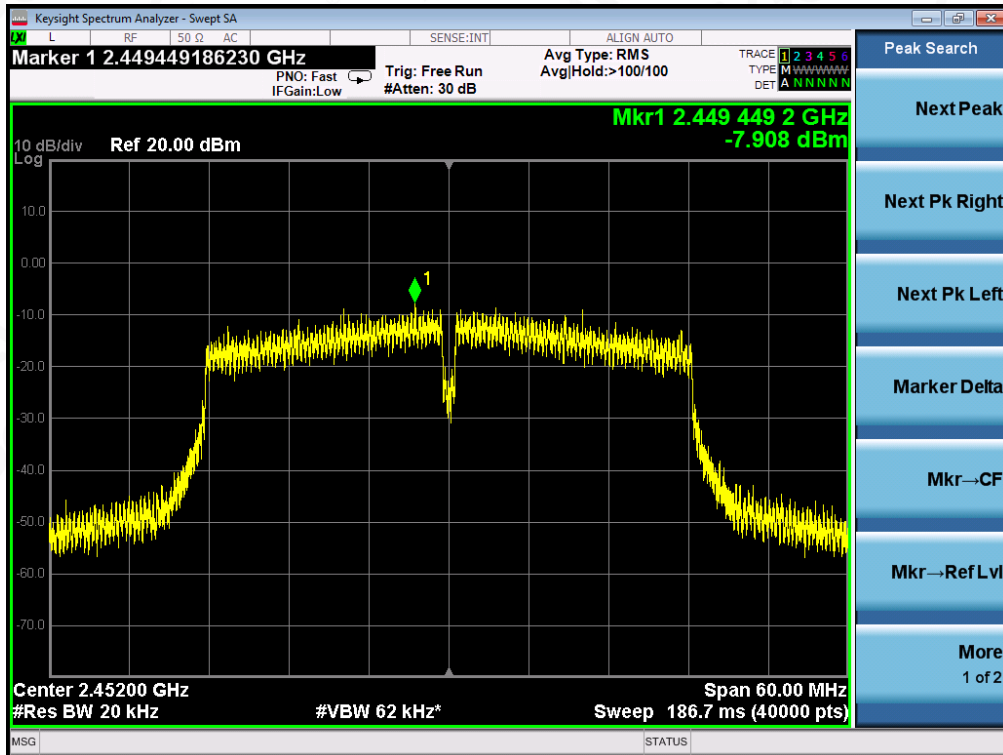
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

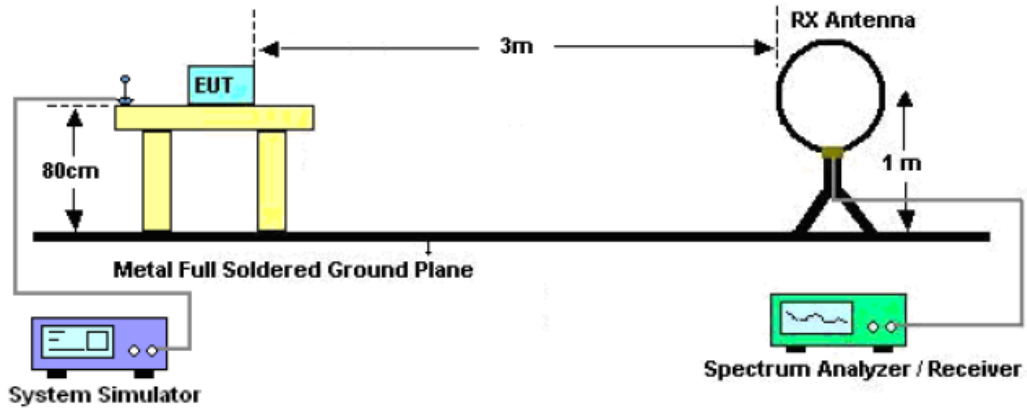
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

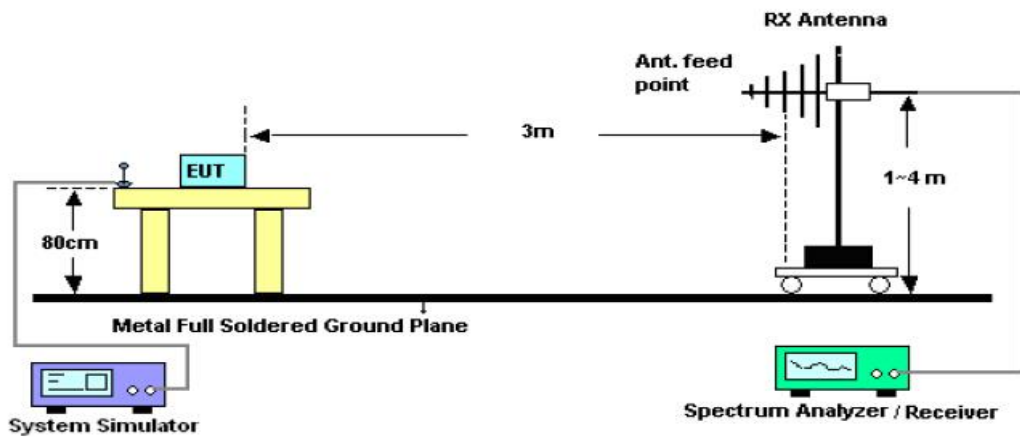
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated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

11.2. TEST SETUP

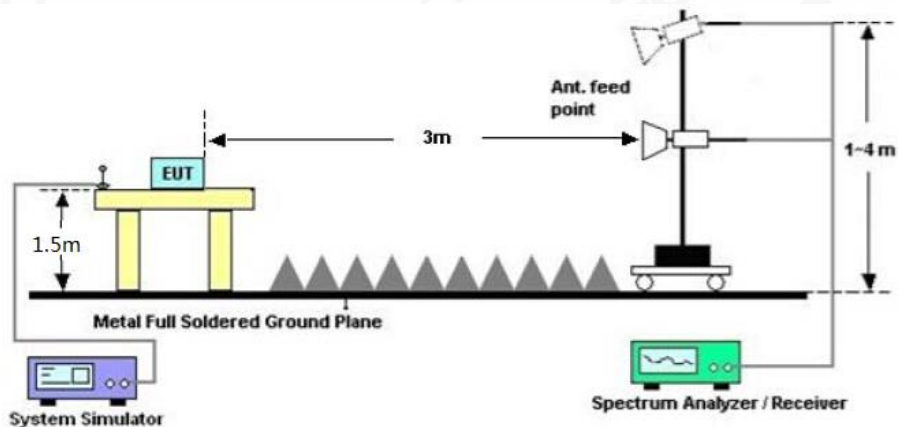
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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

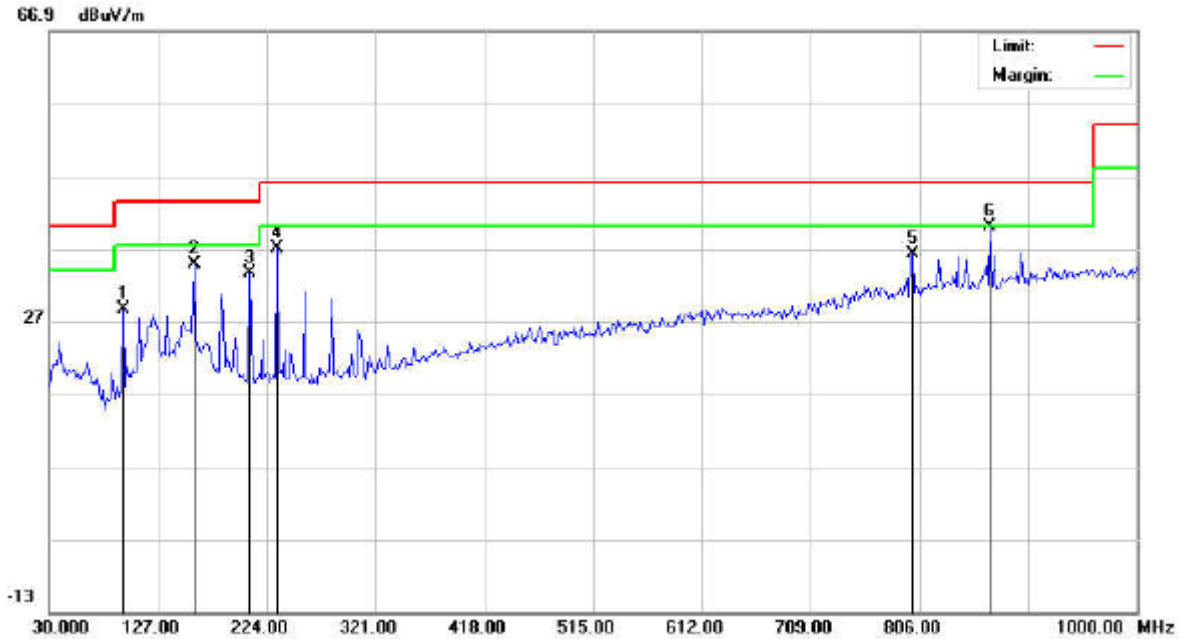
RADIATED EMISSION BELOW 30MHZ

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



RADIATED EMISSION BELOW 1GHZ

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 96.2833 | 12.95 | 15.63 | 28.58 | 43.50 | -14.92 | peak | | | |
| 2 | | 159.3333 | 15.58 | 19.19 | 34.77 | 43.50 | -8.73 | peak | | | |
| 3 | | 209.4500 | 16.93 | 16.62 | 33.55 | 43.50 | -9.95 | peak | | | |
| 4 | | 233.7000 | 18.86 | 18.21 | 37.07 | 46.00 | -8.93 | peak | | | |
| 5 | | 799.5333 | 5.81 | 30.40 | 36.21 | 46.00 | -9.79 | peak | | | |
| 6 | * | 869.0500 | 8.76 | 31.30 | 40.06 | 46.00 | -5.94 | peak | | | |

RESULT: PASS



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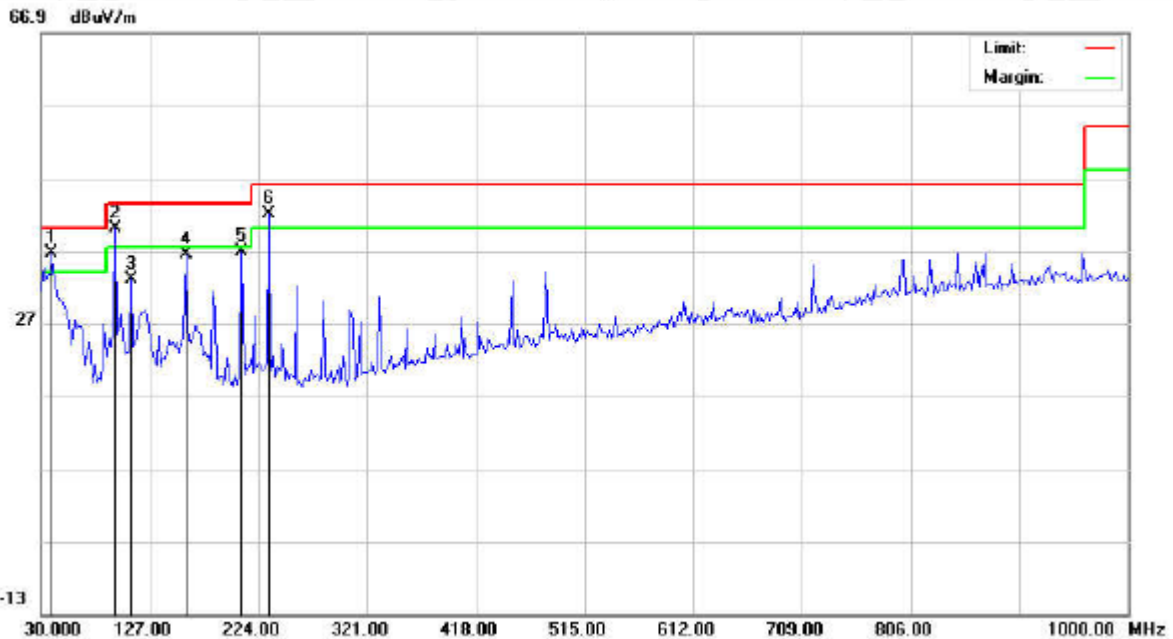
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 39.7000 | 16.66 | 19.98 | 36.64 | 40.00 | -3.36 | peak | | | |
| 2 | ! | 96.2832 | 24.35 | 15.63 | 39.98 | 43.50 | -3.52 | peak | | | |
| 3 | | 110.8333 | 15.93 | 17.07 | 33.00 | 43.50 | -10.50 | peak | | | |
| 4 | | 159.3333 | 17.14 | 19.19 | 36.33 | 43.50 | -7.17 | peak | | | |
| 5 | | 209.4500 | 20.23 | 16.62 | 36.85 | 43.50 | -6.65 | peak | | | |
| 6 | ! | 233.7000 | 23.74 | 18.21 | 41.95 | 46.00 | -4.05 | 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.

RADIATED EMISSION ABOVE 1GHZ

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4824.062 | 48.02 | 3.72 | 51.74 | 74.00 | -22.26 | peak |
| 4824.062 | 42.12 | 3.72 | 45.84 | 54.00 | -8.16 | AVG |
| 7236.093 | 36.54 | 8.15 | 44.69 | 74.00 | -29.31 | peak |
| 7236.093 | 32.92 | 8.15 | 41.07 | 54.00 | -12.93 | AVG |
| | | | | | | |
| | | | | | | |

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

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|-----------------|----------------------|-------------|-------------------------|-----------------|-------------|------------|
| 4824.062 | 50.12 | 3.72 | 53.84 | 74.00 | -20.16 | peak |
| 4824.062 | 43.33 | 3.72 | 47.05 | 54.00 | -6.95 | AVG |
| 7236.093 | 38.54 | 8.15 | 46.69 | 74.00 | -27.31 | peak |
| 7236.093 | 36.51 | 8.15 | 44.66 | 54.00 | -9.34 | AVG |
| | | | | | | |
| | | | | | | |

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



| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4874.062 | 46.72 | 3.75 | 50.47 | 74.00 | -23.53 | peak |
| 4874.062 | 43.06 | 3.75 | 46.81 | 54.00 | -7.19 | AVG |
| 7311.093 | 41.31 | 8.16 | 49.47 | 74.00 | -24.53 | peak |
| 7311.093 | 39.32 | 8.16 | 47.48 | 54.00 | -6.52 | AVG |
| | | | | | | |
| | | | | | | |

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

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4874.062 | 47.96 | 3.75 | 51.71 | 74.00 | -22.29 | peak |
| 4874.062 | 44.34 | 3.75 | 48.09 | 54.00 | -5.91 | AVG |
| 7311.093 | 40.99 | 8.16 | 49.15 | 74.00 | -24.86 | peak |
| 7311.093 | 38.53 | 8.16 | 46.69 | 54.00 | -7.31 | AVG |
| | | | | | | |
| | | | | | | |

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

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4924.062 | 46.90 | 3.81 | 50.71 | 74.00 | -23.29 | peak |
| 4924.062 | 43.80 | 3.81 | 47.61 | 54.00 | -6.39 | AVG |
| 7386.093 | 39.85 | 8.19 | 48.04 | 74.00 | -25.96 | peak |
| 7386.093 | 37.72 | 8.19 | 45.91 | 54.00 | -8.09 | AVG |
| | | | | | | |
| | | | | | | |

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

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4924.062 | 46.66 | 3.81 | 50.47 | 74.00 | -23.53 | peak |
| 4924.062 | 44.80 | 3.81 | 48.61 | 54.00 | -5.39 | AVG |
| 7386.093 | 39.42 | 8.19 | 47.61 | 74.00 | -26.39 | peak |
| 7386.093 | 36.86 | 8.19 | 45.05 | 54.00 | -8.96 | AVG |
| | | | | | | |
| | | | | | | |

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



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. 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.



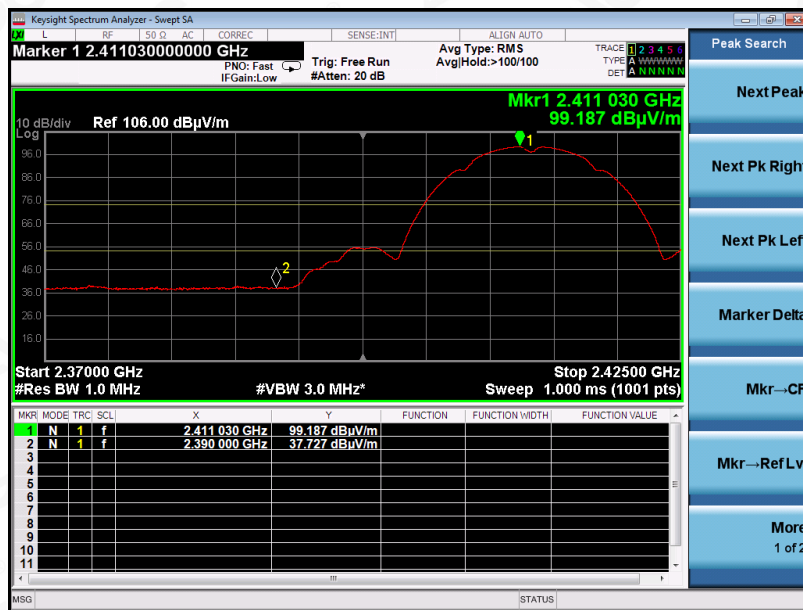
12.3. Test Result

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| 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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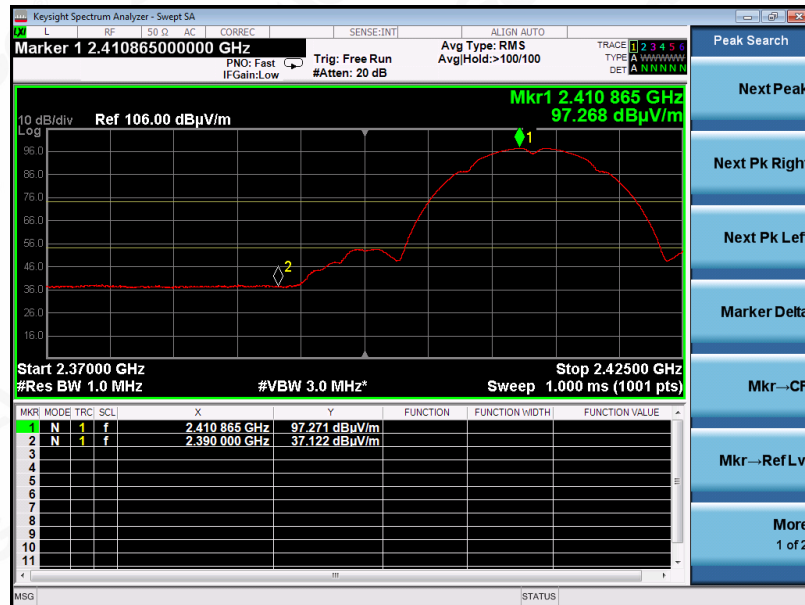
Service Hotline: 400 089 2118

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

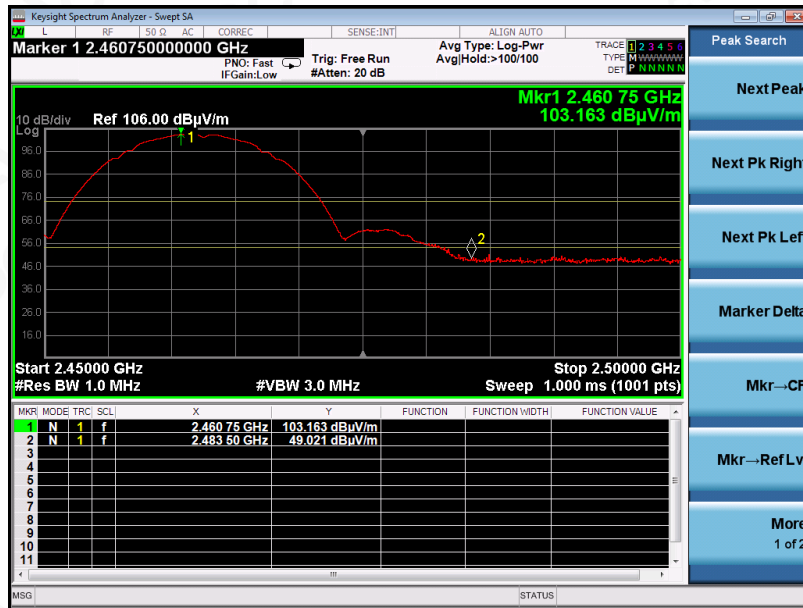


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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS



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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

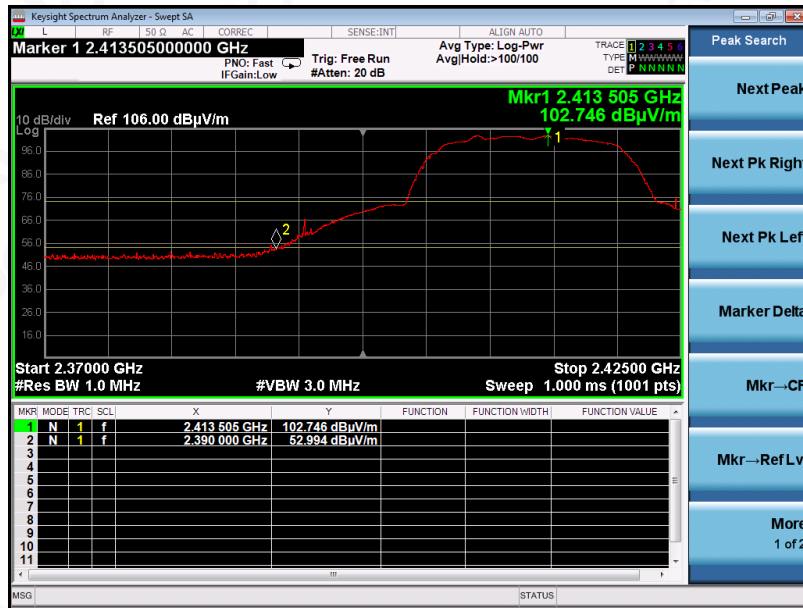


Attestation of Global Compliance

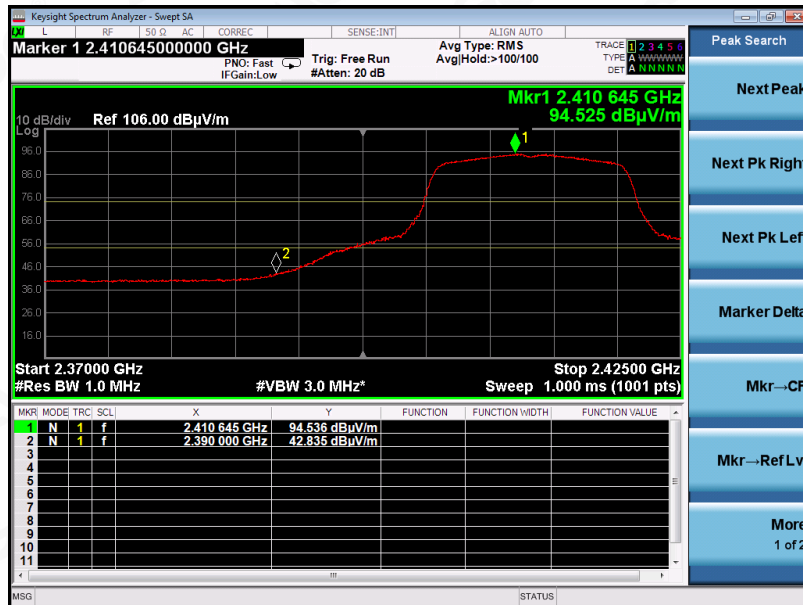
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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS



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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS



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| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

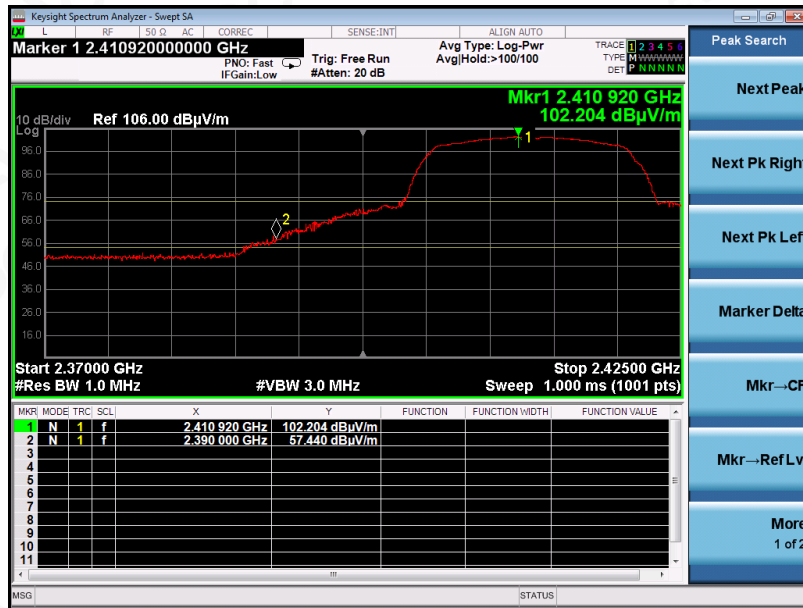


Attestation of Global Compliance

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| | | | |
|-------------|--|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2412MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS

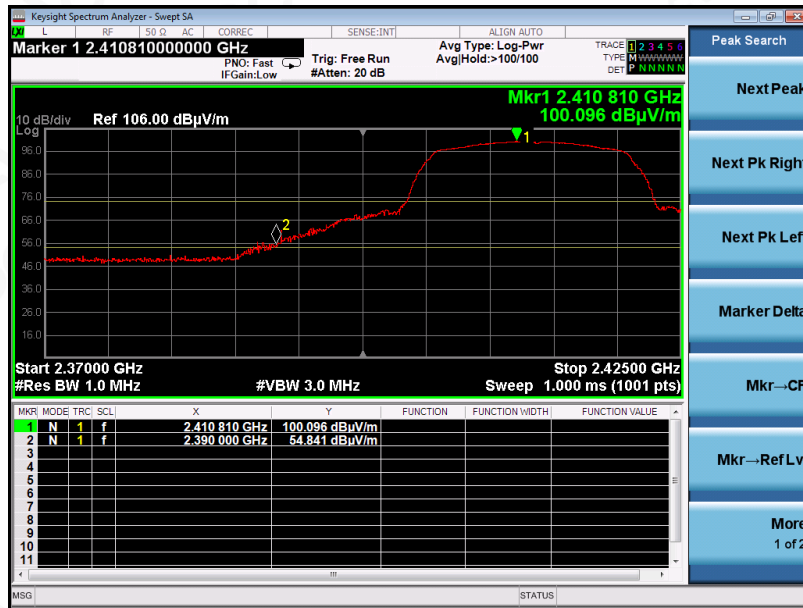


Attestation of Global Compliance

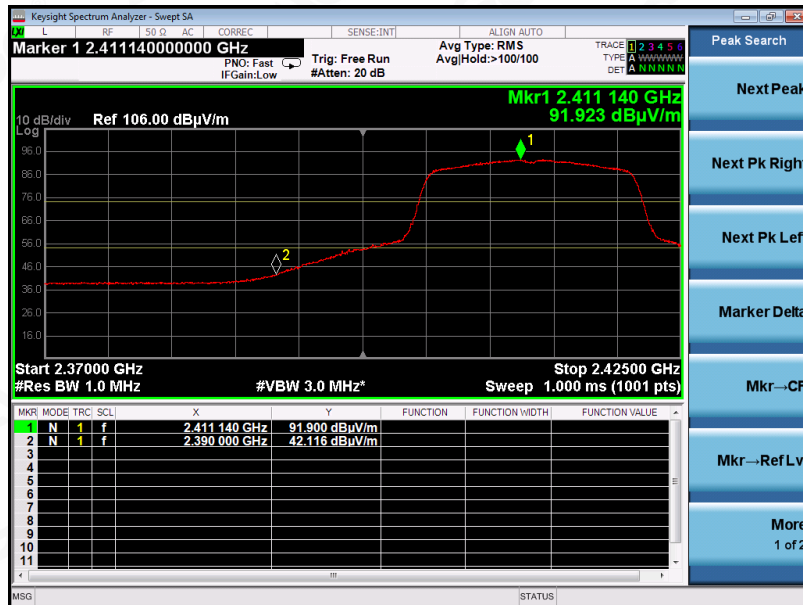
Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

| | | | |
|-------------|--|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2412MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS



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E-mail: agc@agc-cert.com

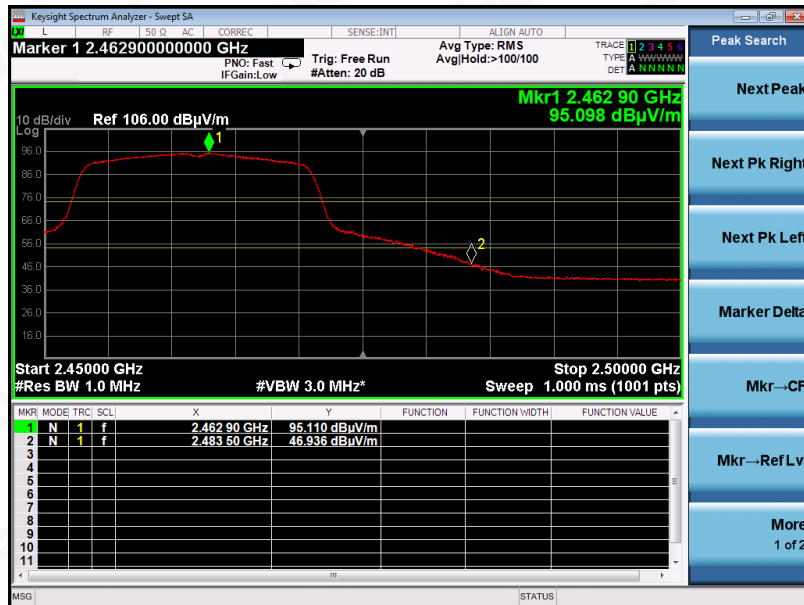
Service Hotline: 400 089 2118

| | | | |
|-------------|---------------------------------------|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2462MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS



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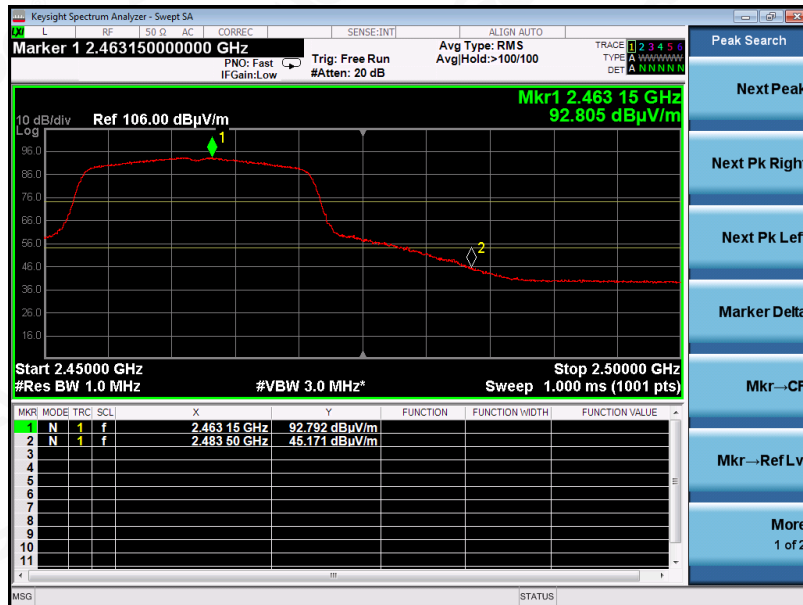
Service Hotline: 400 089 2118

| | | | |
|-------------|--|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2462MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS



Attestation of Global Compliance

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Service Hotline: 400 089 2118

| | | | |
|-------------|---|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS



Attestation of Global Compliance

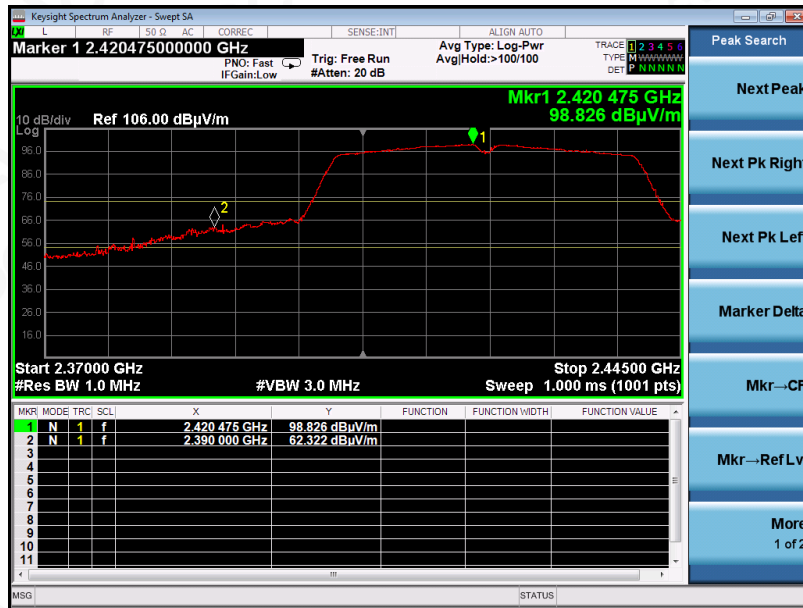
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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| | | | |
|-------------|---|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS



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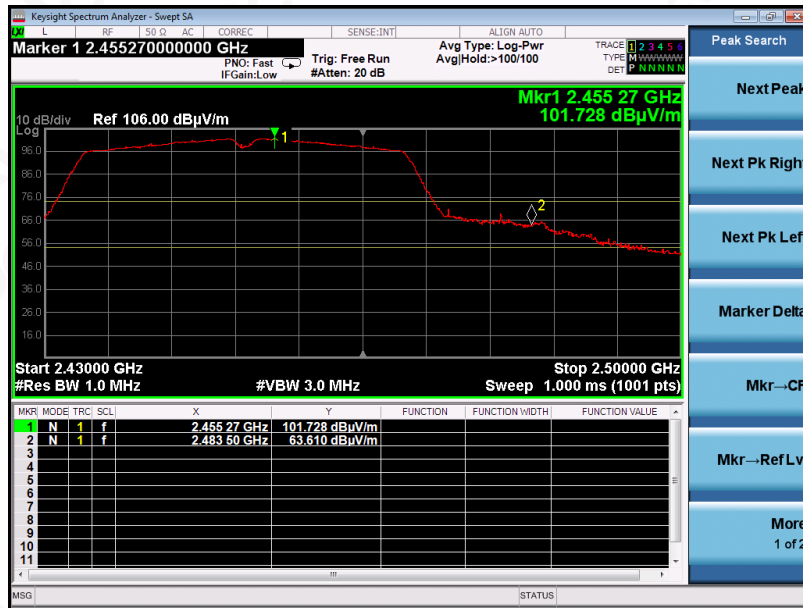
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

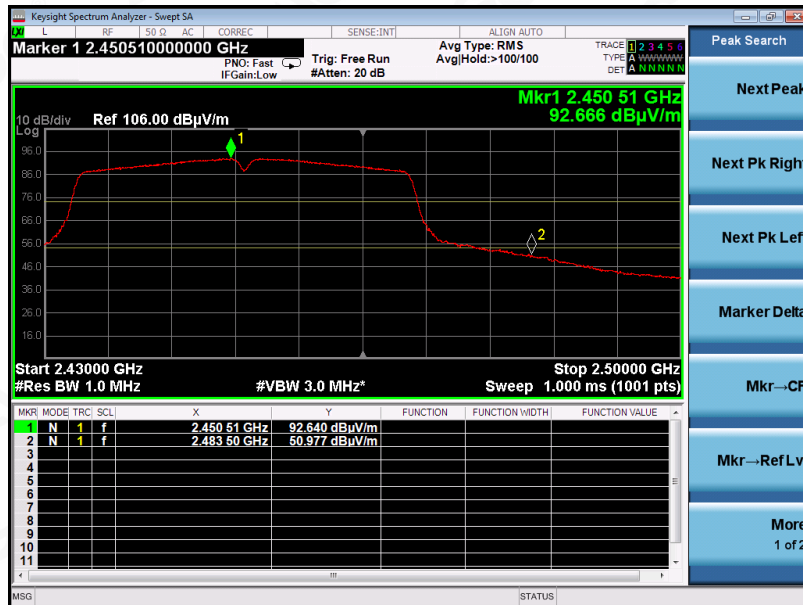
Service Hotline: 400 089 2118

| | | | |
|-------------|--|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40with data rate 13.5 2452MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS



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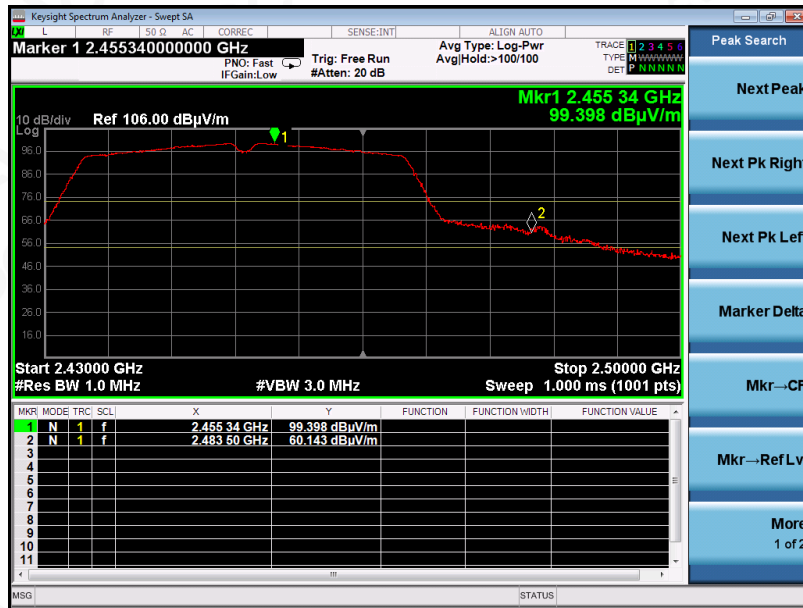
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

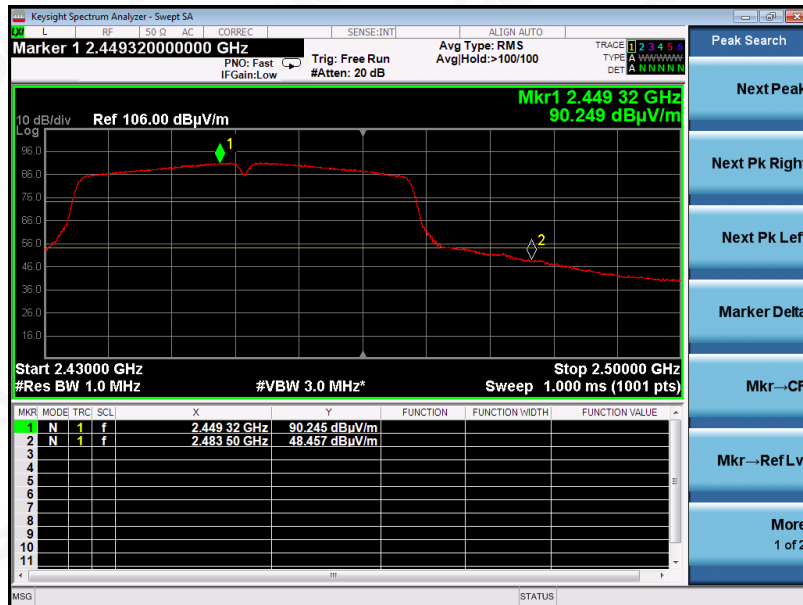
Service Hotline: 400 089 2118

| | | | |
|-------------|---|-------------------|----------------|
| EUT | WIFI SPEAKER | Model Name | ASC-S5 |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2452MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS



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Service Hotline: 400 089 2118

13. FCC LINE CONDUCTED EMISSION TEST

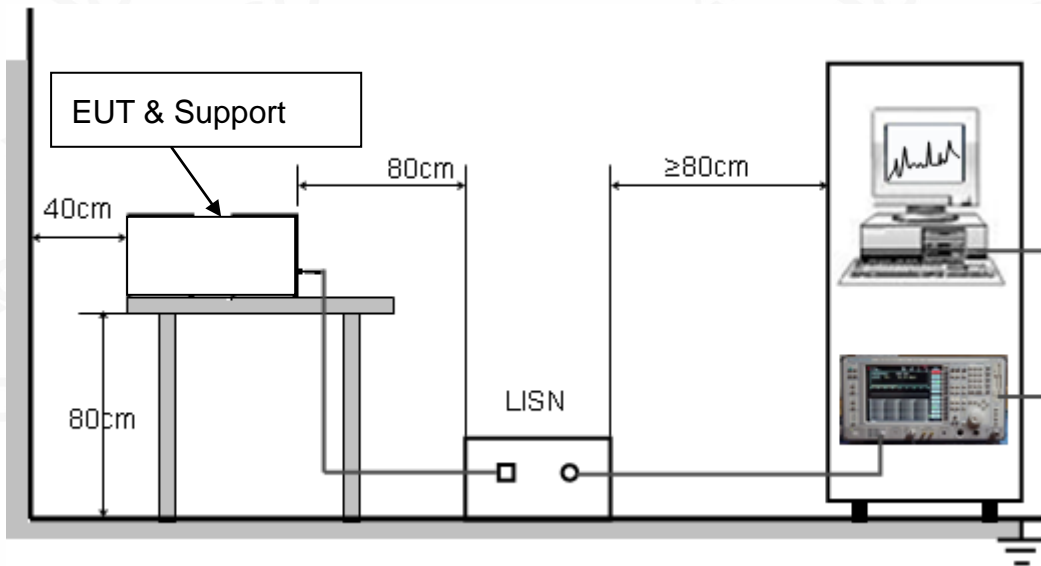
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------|
| | 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 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. 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/60Hz power 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.

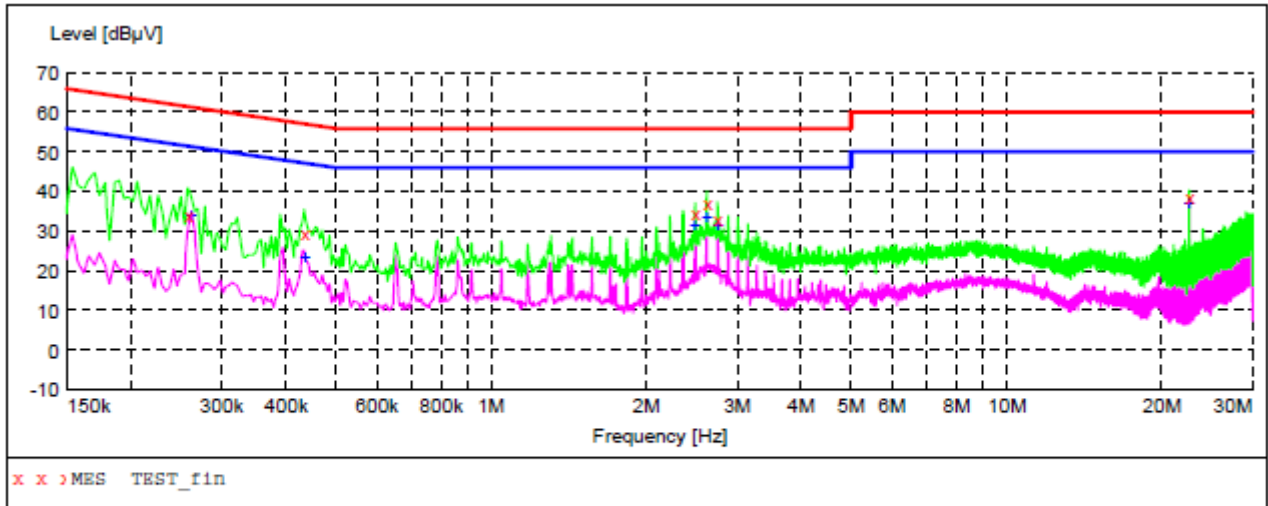
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. 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.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST LINE 1-L



MEASUREMENT RESULT: "TEST_fin"

7/3/2019 10:00PM

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.258000 | 34.20 | 10.9 | 62 | 27.3 | QP | L1 | FLO |
| 0.434000 | 29.40 | 10.6 | 57 | 27.8 | QP | L1 | FLO |
| 2.490000 | 34.80 | 11.5 | 56 | 21.2 | QP | L1 | FLO |
| 2.622000 | 37.00 | 11.5 | 56 | 19.0 | QP | L1 | FLO |
| 2.746000 | 33.00 | 11.5 | 56 | 23.0 | QP | L1 | FLO |
| 22.578000 | 38.60 | 12.6 | 60 | 21.4 | QP | L1 | FLO |

MEASUREMENT RESULT: "TEST_fin2"

7/3/2019 10:00PM

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.262000 | 34.30 | 10.9 | 51 | 17.1 | AV | L1 | FLO |
| 0.434000 | 23.60 | 10.6 | 47 | 23.6 | AV | L1 | FLO |
| 2.490000 | 31.80 | 11.5 | 46 | 14.2 | AV | L1 | FLO |
| 2.618000 | 33.40 | 11.5 | 46 | 12.6 | AV | L1 | FLO |
| 2.750000 | 31.30 | 11.5 | 46 | 14.7 | AV | L1 | FLO |
| 22.578000 | 36.90 | 12.6 | 50 | 13.1 | AV | L1 | FLO |

RESULT: PASS



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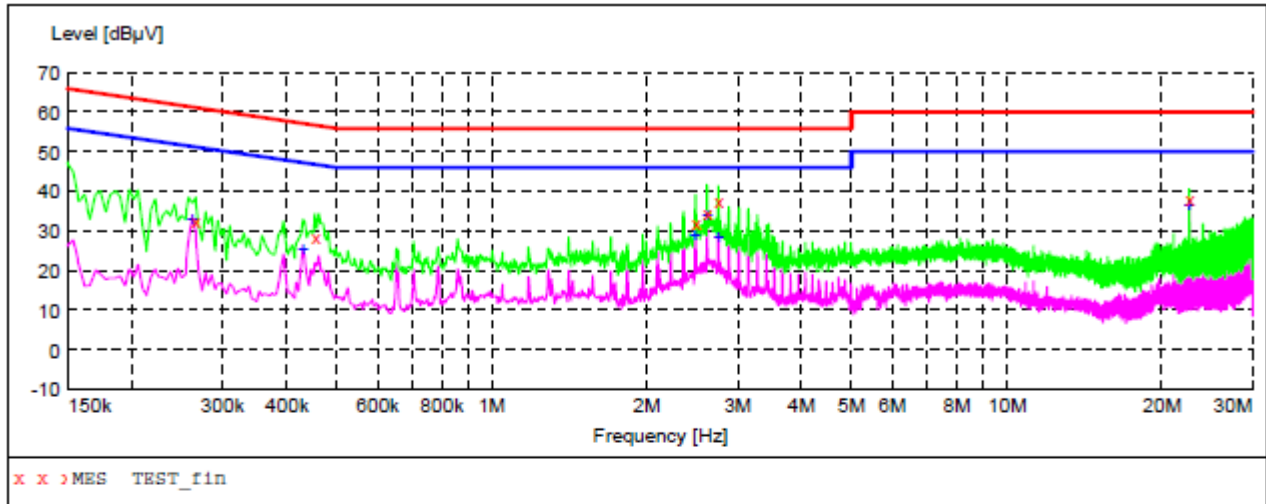
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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST_fin"

7/3/2019 10:12PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.266000 | 32.50 | 10.9 | 61 | 28.7 | QP | N | FLO |
| 0.454000 | 28.30 | 10.8 | 57 | 28.5 | QP | N | FLO |
| 2.486000 | 32.00 | 11.5 | 56 | 24.0 | QP | N | FLO |
| 2.618000 | 34.70 | 11.5 | 56 | 21.3 | QP | N | FLO |
| 2.754000 | 37.80 | 11.5 | 56 | 18.2 | QP | N | FLO |
| 22.578000 | 38.40 | 12.6 | 60 | 21.6 | QP | N | FLO |

MEASUREMENT RESULT: "TEST_fin2"

7/3/2019 10:12PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.262000 | 33.10 | 10.9 | 51 | 18.3 | AV | N | FLO |
| 0.430000 | 25.50 | 10.6 | 47 | 21.8 | AV | N | FLO |
| 2.486000 | 29.10 | 11.5 | 46 | 16.9 | AV | N | FLO |
| 2.622000 | 34.50 | 11.5 | 46 | 11.5 | AV | N | FLO |
| 2.750000 | 28.70 | 11.5 | 46 | 17.3 | AV | N | FLO |
| 22.578000 | 36.80 | 12.6 | 50 | 13.2 | AV | N | FLO |

RESULT: PASS



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

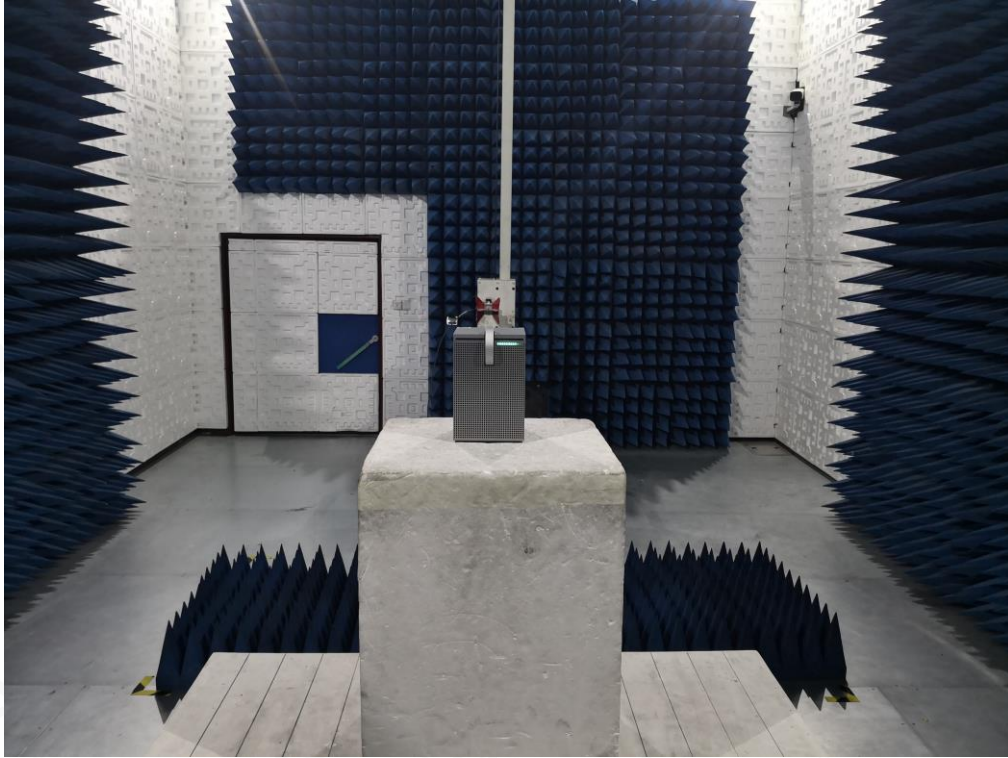
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



APPENDIX B: PHOTOGRAPHS OF EUT
ALL VIEW OF EUT

