



FCC/IC- TEST REPORT

Report Number : **708881779703-00** Date of Issue: October 9, 2017

Model : SZU06C1, SZU06C2

Product Type : ZigBee wireless communication module

FCC ID : 2ALOUSZU06C

Applicant : Chengdu Diyue Technology Co., Ltd.

Address : Room 408, 4/F, Block A, Gaofa Building, No.6, Jiuxing Avenue, High-tech Zone, Chengdu, Sichuan province, China

Production Facility : Chengdu Diyue Technology Co., Ltd.

Address : Room 408, 4/F, Block A, Gaofa Building, No.6, Jiuxing Avenue, High-tech Zone, Chengdu, Sichuan province, China

Test Result : Positive Negative

Total pages including Appendices : 68

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
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Registration

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3 Description of the Equipment under Test

Description of the Equipment Under Test

Product: ZigBee wireless communication module

Model no.: SZU06C1, SZU06C2

FCC ID: 2ALOUSZU06C

IC: NA

Options and accessories: NA

Rating voltage: 2.1V~3.9V DC

RF Transmission 2405MHz-2480MHz

Frequency:

No. of Operated Channel: 16

Channel Space: 5MHz

Channel list: Channel 11: 2405MHz

Channel 12: 2410MHz

Channel 13: 2415MHz

...

Channel 19: 2445MHz

...

Channel 26: 2480MHz

Radio technology: IEEE 802.15.4

Modulation: O-QPSK

Hardware version: SZU06C1V06 for SZU06C1; SZU06C2V06 for SZU06C2

Software version: SZU06C_GSME01_00000006

Antenna Type: Snake antenna for SZU06C1

Dipole antenna W1010 for SZU06C2

Antenna Gain: Snake antenna for SZU06C1: 3.66dBi

Dipole antenna W1010 for SZU06C2: 2.0dBi

Description of the EUT: The Equipment Under Test (EUT) is ZigBee wireless transceiver module operated at 2.4GHz



4 Summary of Test Standards

| Test Standards | |
|-----------------------|--|
| FCC Part 15 Subpart C | PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators |

All the test methods were according to KDB558074 D01 DTS Measurement Guidance v04 and ANSI C63.10 (2013).

5 Summary of Test Results

| Technical Requirements | | | | | | |
|------------------------|---|------------|-----------|-------------------------------------|--------------------------|-------------------------------------|
| FCC Part 15 Subpart C | | Pages | Test Site | Test Result | | |
| Test Condition | | | | Pass | Fail | N/A |
| §15.207 | Conducted emission AC power port | --- | --- | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| §15.247 (b) (1) | Conducted peak output power | 10 | Site 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| §15.247(a)(1) | 20dB bandwidth | --- | --- | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| §15.247(a)(1) | Carrier frequency separation | --- | --- | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| §15.247(a)(1)(iii) | Number of hopping frequencies | --- | --- | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| §15.247(a)(1)(iii) | Dwell Time | --- | --- | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| §15.247(e) | Power spectral density | 13 | Site 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| §15.247(a)(2) | 6dB bandwidth and 99% Occupied Bandwidth | 11 | Site 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| §15.247(d) | Spurious RF conducted emissions | 15 | Site 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| §15.247(d) | Band edge | 19 | Site 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| §15.247(d) & §15.209 | Spurious radiated emissions for transmitter | 22 | Site 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| §15.203 | Antenna requirement | See note 1 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Remark 1: N/A – Not Applicable.

Note 1: For model: SZU06C1 uses a snake antenna, which gain is 3.3dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

For model: SZU06C2 have a U.FL RF connector and uses a dipole antenna thorough U.FL-RSMA pigtail, which dipole antenna gain is 2.0dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ALOUSZU06C complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- Not Performed

The Equipment under Test

- Fulfills the general approval requirements.

- Does not fulfill the general approval requirements.

Sample Received Date: August 12, 2017

Testing Start Date: August 23, 2017

Testing End Date: September 25, 2017

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

A handwritten signature of "Hui TONG".
Hui TONG
Review Engineer

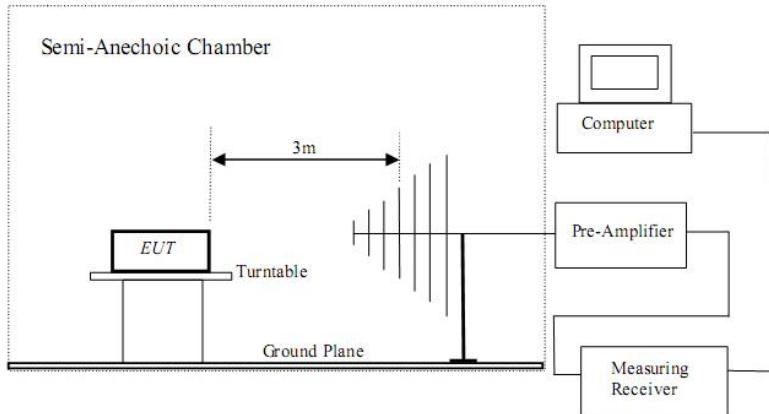
Prepared by:



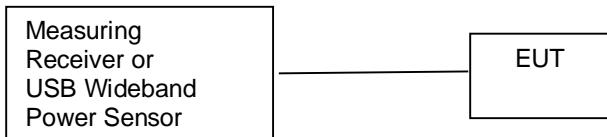
A handwritten signature of "Wenwen CHENG".
Wenwen CHENG
Project Engineer

7 Test Setups

7.1 Radiated test setups



7.2 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

| DESCRIPTION | MANUFACTURER | MODEL NO.(SHIELD) |
|-------------|--------------|-------------------|
| Notebook | Lenovo | X240 |

Test channel & mode:

The Zigbee transceiver was configured using a proprietary communication interface provided by the client. The interface allows power level and channel control required to support the evaluation. The power level settings in the table below were used for the evaluation.

| | |
|---------------|------------------|
| Test software | CommBox-zbspTool |
|---------------|------------------|

| Test mode | Channel | Power settings (dBm) | Frequency (MHz) |
|-----------|---------|----------------------|-----------------|
| Tx | 11 | 16 | 2405 |
| Tx | 18 | 16 | 2440 |
| Tx | 25 | 16 | 2475 |
| Tx | 26 | 10 | 2480 |

Additional Comments:

The customer declared two models with the same RF part.

Full Test was performed with DUT2: 2.4GHZ IEEE 802.15.4 Zigbee module with u.FL antenna connector; Model: SZU06C1

Partial test was performed with model name DUT1: 2.4GHz IEEE 802.15.4 Zigbee module with integrated PCB (Snake) antenna; Model: SZU06C2

9 Technical Requirement

9.1 Conducted peak output power

Test Method

KDB 558074 D01 v04 – Section 9.1.3 PKPM1 – Peak Power Method

9.1.3 PKPM1 Peak-reading power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Limits

| Frequency Range MHz | Limit W | Limit dBm |
|------------------------|------------|--------------|
| 2400-2483.5 | ≤1 | ≤30 |

Test result as below table

| Model | Max Gain (dBi) | Ch. | Freq. (MHz) | Peak Power (dBm) | Average Power (dBm) | Limit (dBm) |
|--------|-------------------|-----|----------------|---------------------|------------------------|----------------|
| Zigbee | 3.66 | 11 | 2405 | 15.32 | 15.16 | 30 |
| | 3.66 | 19 | 2440 | 15.58 | 15.41 | 30 |
| | 3.66 | 25 | 2475 | 15.33 | 15.21 | 30 |
| | 3.66 | 26 | 2480 | 10.09 | 9.78 | 30 |

9.2 6dB bandwidth Occupied Bandwidth

Test Method

1. Use the following spectrum analyzer settings:
RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
3. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Limit

Limit [kHz]

≥ 500

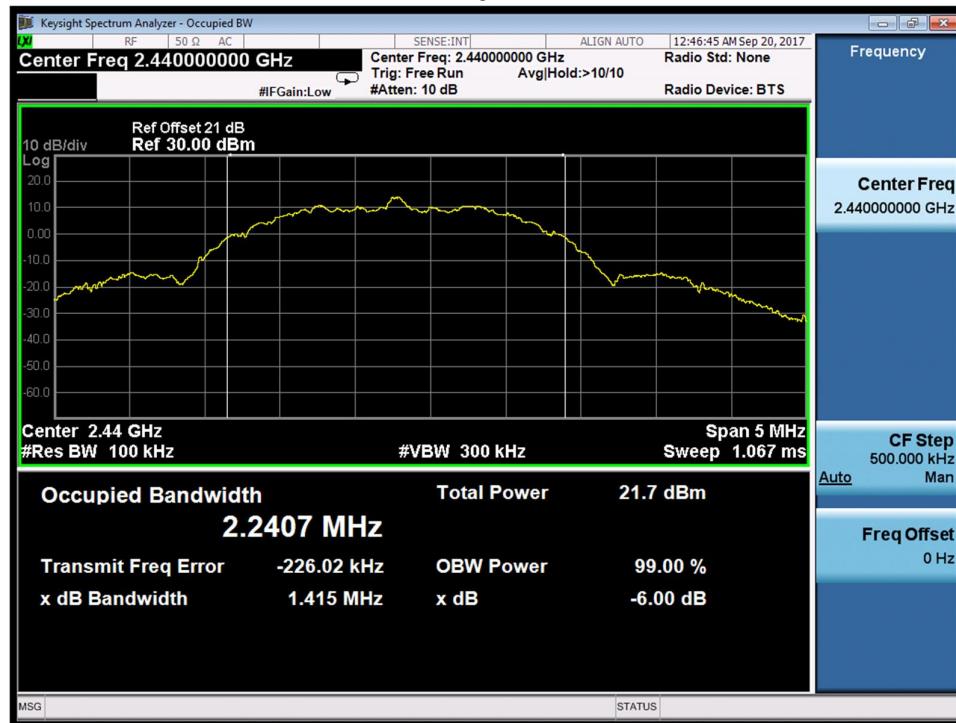
Test result

| Frequency MHz | 6dB bandwidth MHz | Result |
|-----------------------------|----------------------|--------|
| Top channel 2405MHz | 2.2424 | Pass |
| Middle channel 2440MHz | 2.2407 | Pass |
| (Bottom channel -1) 2475MHz | 2.2413 | Pass |
| Bottom channel 2480MHz | 2.2387 | Pass |

2405MHz

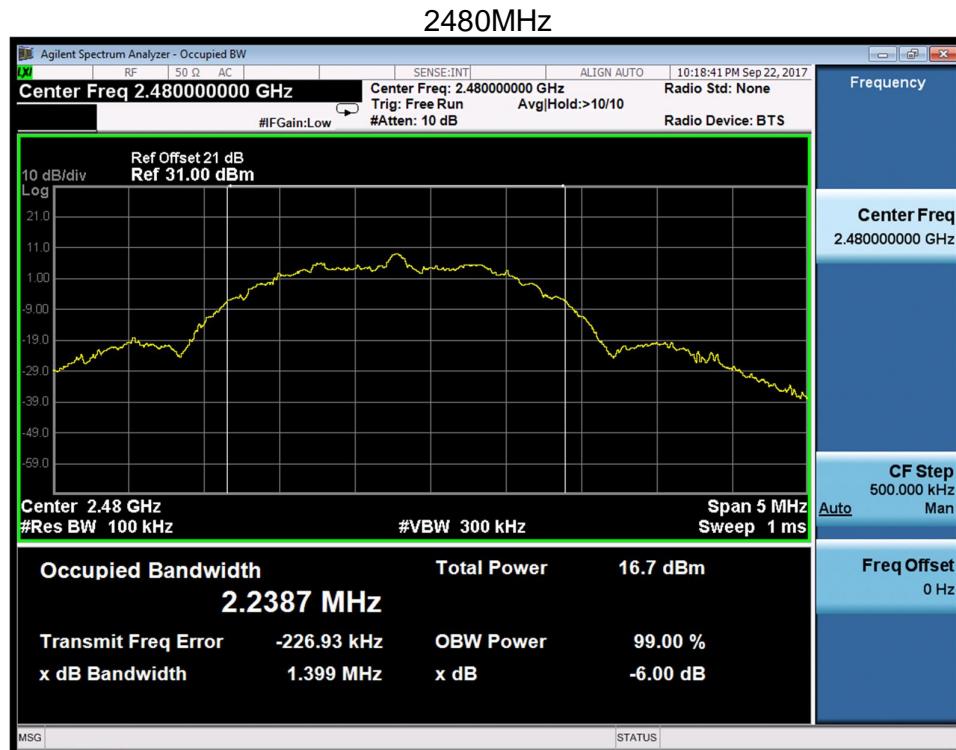


2440MHz



2475MHz





9.3 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW \geq 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace=max hold.
2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
3. Repeat above procedures until other frequencies measured were completed.

Limit

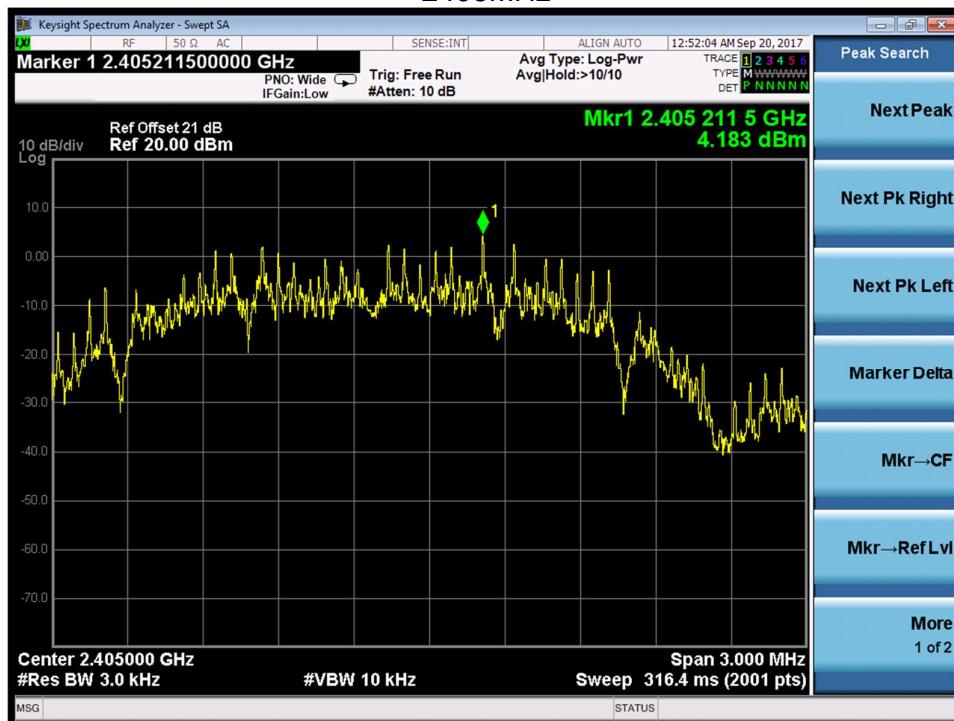
Limit [dBm]

≤ 8

Test result

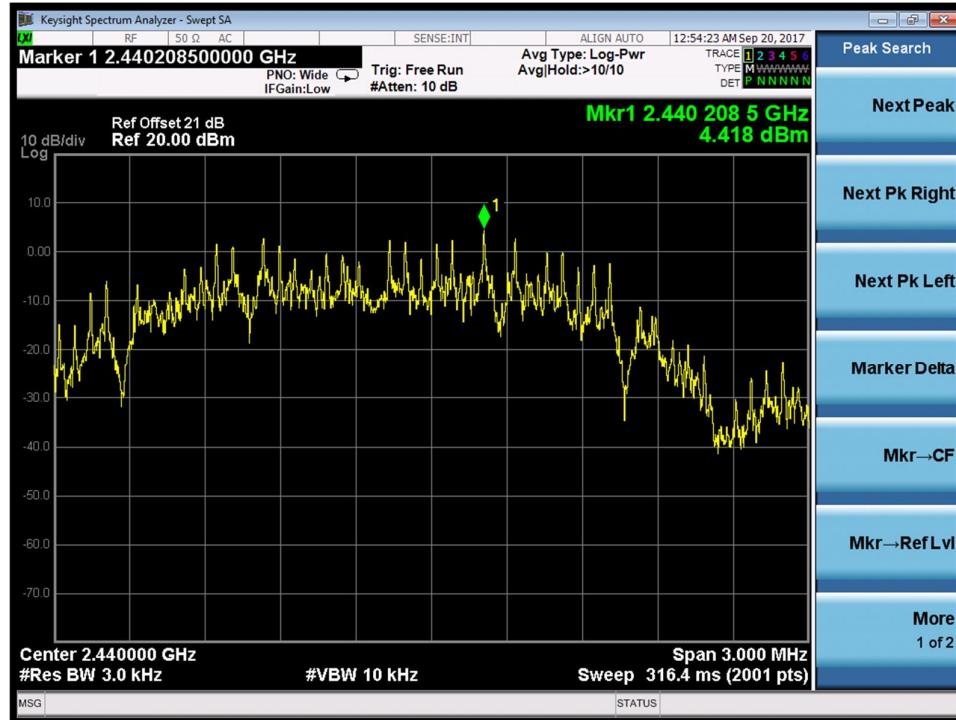
| Frequency MHz | Power spectral density dBm | Result |
|-----------------------------|----------------------------------|--------|
| Top channel 2405MHz | 4.183 | Pass |
| Middle channel 2440MHz | 4.418 | Pass |
| (Bottom channel -1) 2475MHz | 4.507 | Pass |
| Bottom channel 2480MHz | -0.909 | Pass |

2405MHz

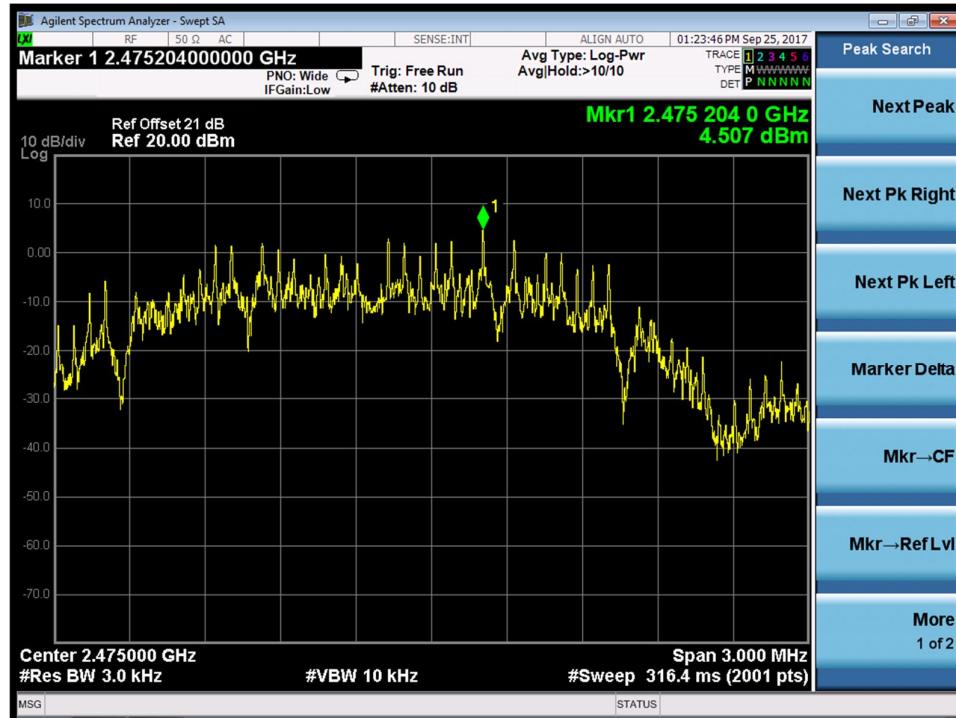




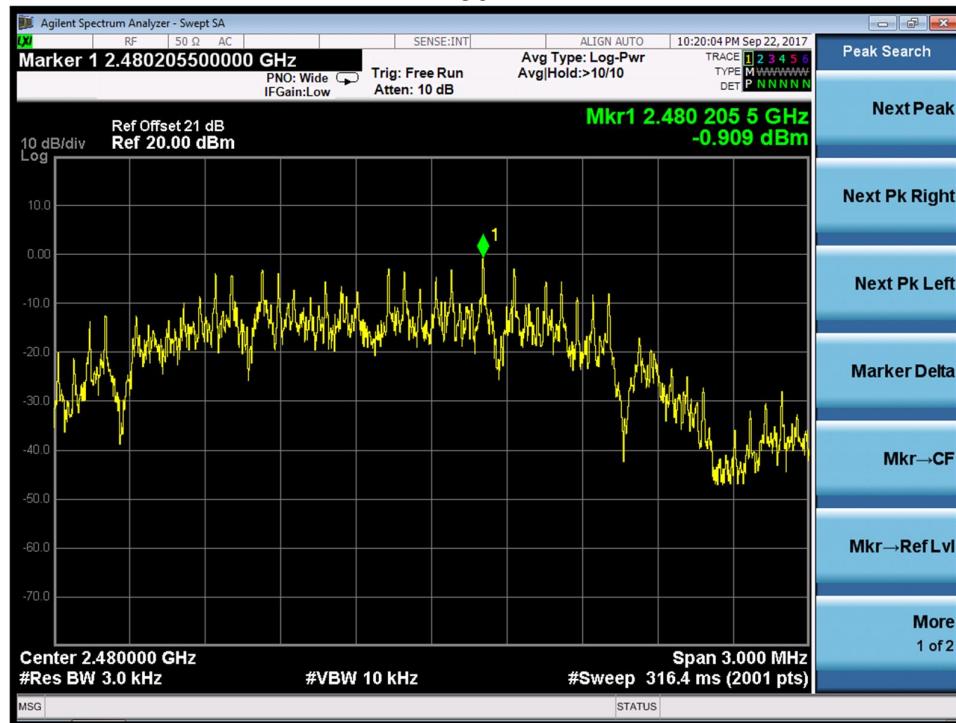
2440MHz



2475MHz



2480MHz



9.4 Spurious RF conducted emissions

Test Method

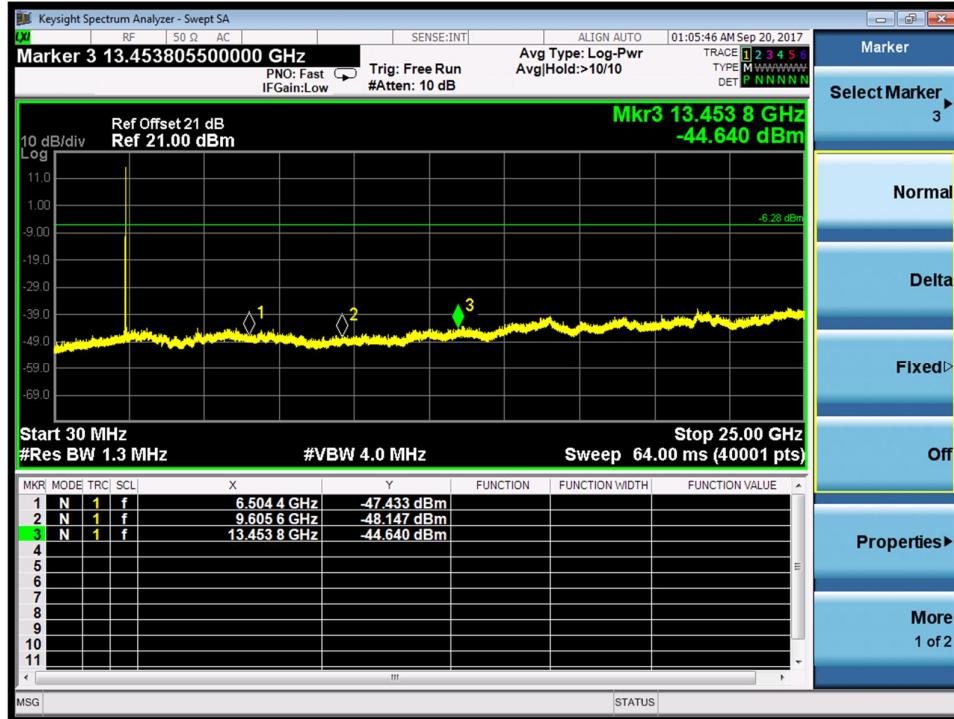
1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW \geq 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
3. Repeat above procedures until other frequencies measured were completed.

Limit

| Frequency Range MHz | Limit (dBc) |
|------------------------|-------------|
| 30-25000 | -20 |

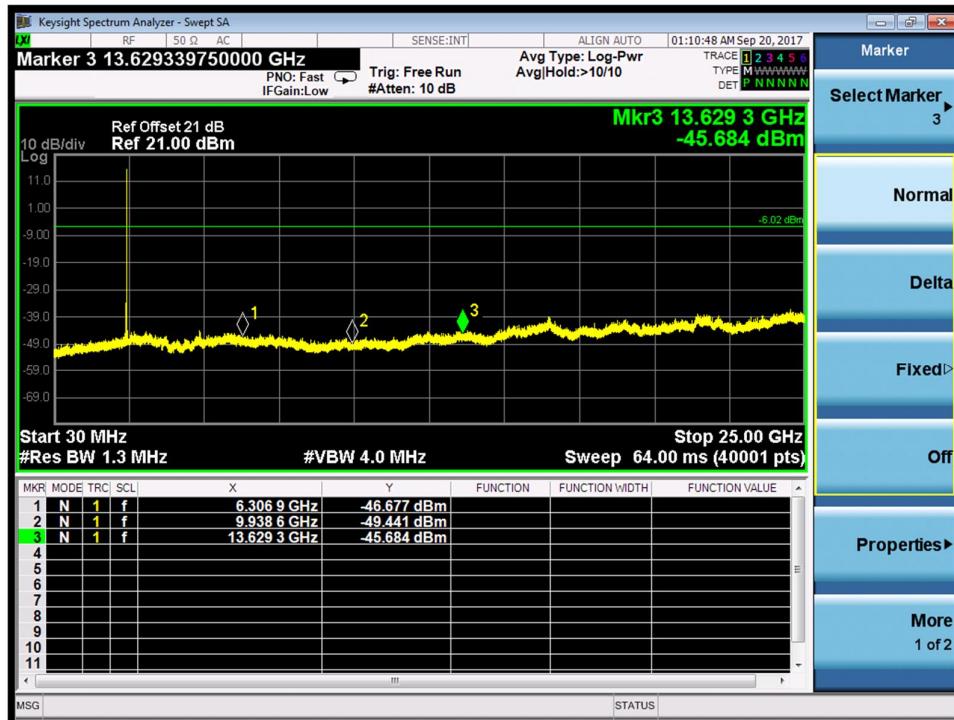
Spurious RF conducted emissions

2405MHz



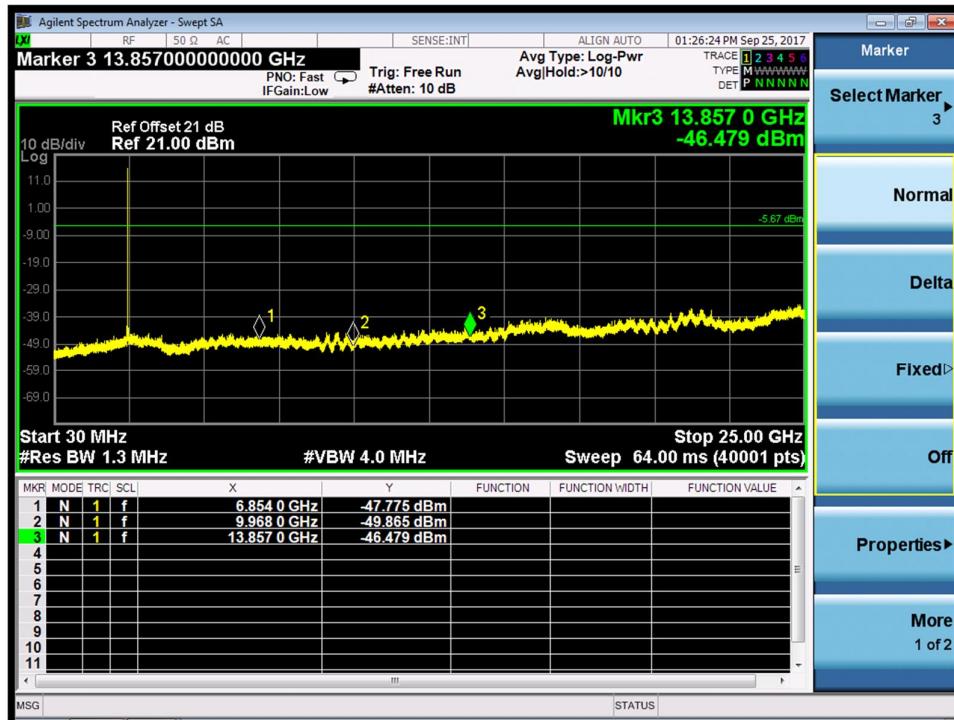


2440MHz

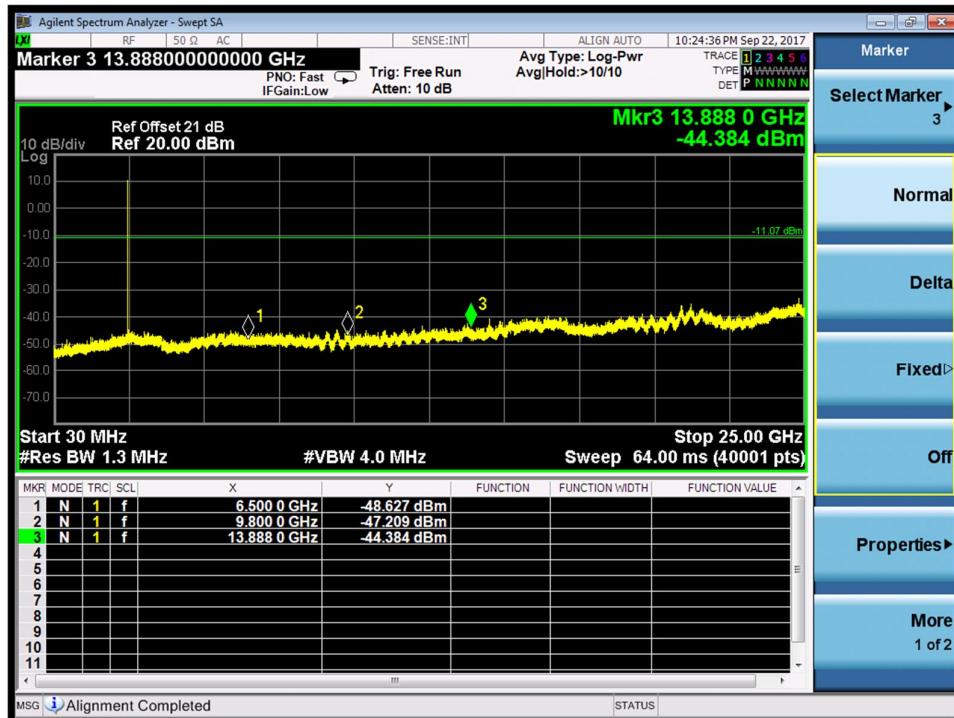




2475MHz



2480MHz



9.5 Band edge

Test Method

- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

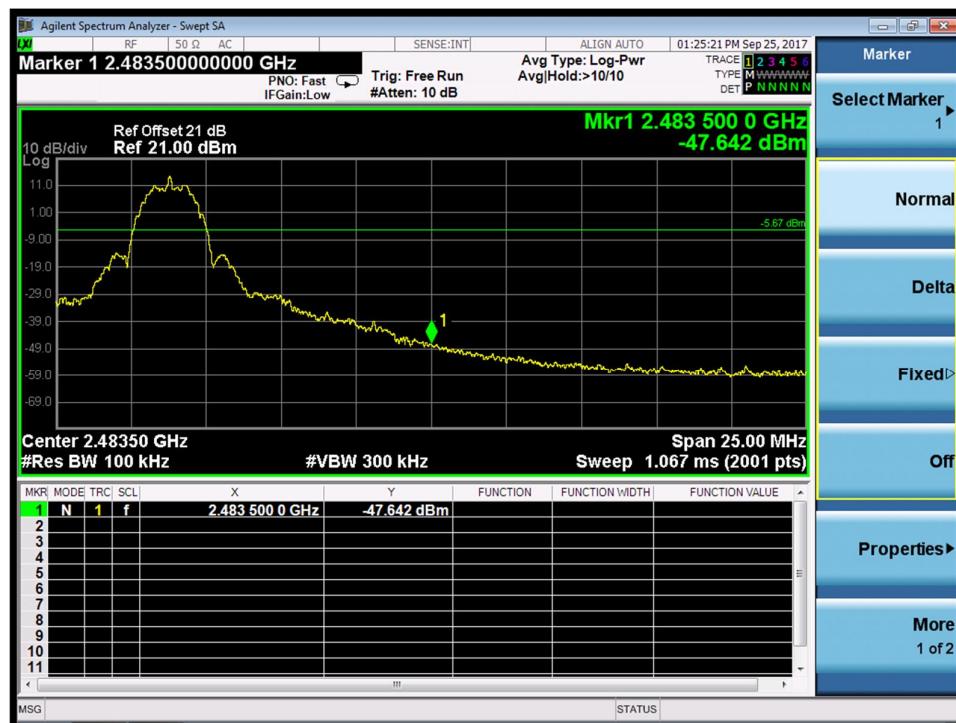
In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen8.10, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.

Test result

2405MHz



2475MHz





2480MHz



9.6 Spurious radiated emissions for transmitter

Test Method

- 1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious

RBW = 1MHz, VBW \geq RBW for peak measurement and VBW = 10Hz for average measurement,

Sweep = auto, Detector function = peak, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious

RBW = 100 KHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak,

Trace = max hold.

Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle))).
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.



Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

| Frequency MHz | Field Strength uV/m | Measured Distance Meters |
|------------------|------------------------|-----------------------------|
| 0.009~0.490 | 2400/F (kHz) | 300 |
| 0.490~1.705 | 24000/F (kHz) | 30 |
| 1.705~30 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| 960~1000 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| Frequency MHz | Field Strength (dB _u V/m) (at 3M) | AVERAGE |
|------------------|---|---------|
| PEAK | | |
| Above 1000 | 74 | 54 |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB_uV/m)=20logEmission level (uV/m).

Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

Remark 1: There are the ambient noise within frequency range 9kHz ~ 30MHz and 18GHz ~ 25GHz, the permissible value is not show in the report.

Remark 2: Average measurement was not performed if peak level lower than average limit.

Remark 3: Other frequency was 20dB below limit line with 1-18GHz, there is not show in the report.

For model: SZU06C1

2405MHz

| Frequency | Reading Level | Factor | Measure Level | Limit | Margin | Detector | Polarization |
|-----------|---------------------|--------|---------------------|--------------------|--------|----------|--------------|
| MHz | dB _{BuV/m} | dB | dB _{BuV/m} | dB _{μV/m} | dB | Peak | |
| 4808.00 | 44.05 | 2.66 | 46.70 | 74.00 | -27.30 | PK | Horizontal |
| 4808.00 | 38.78 | 2.66 | 41.44 | 74.00 | -32.56 | PK | Vertical |
| 7477.00 | 32.80 | 10.83 | 43.63 | 74.00 | -30.37 | PK | Vertical |

2445MHz

| Frequency | Reading Level | Factor | Measure Level | Limit | Margin | Detector | Polarization |
|-----------|---------------------|--------|---------------------|--------------------|--------|----------|--------------|
| MHz | dB _{BuV/m} | dB | dB _{BuV/m} | dB _{μV/m} | dB | Peak | |
| 4876.00 | 42.31 | 2.61 | 44.93 | 74.00 | -29.08 | PK | Horizontal |
| 4876.00 | 39.23 | 2.61 | 41.84 | 74.00 | -32.16 | PK | Vertical |

2475MHz

| Frequency | Reading Level | Factor | Measure Level | Limit | Margin | Detector | Polarization |
|-----------|---------------------|--------|---------------------|--------------------|--------|----------|--------------|
| MHz | dB _{BuV/m} | dB | dB _{BuV/m} | dB _{μV/m} | dB | Peak | |
| 4952.50 | 40.96 | 2.69 | 43.65 | 74.00 | -30.35 | PK | Horizontal |
| 4952.50 | 38.51 | 2.69 | 41.20 | 74.00 | -32.80 | PK | Vertical |
| 7069.00 | 33.98 | 9.89 | 43.87 | 74.00 | -30.13 | PK | Vertical |

2480MHz

| Frequency | Reading Level | Factor | Measure Level | Limit | Margin | Detector | Polarization |
|------------------------|---------------------|--------|---------------------|--------------------|--------|----------|--------------|
| MHz | dB _{BuV/m} | dB | dB _{BuV/m} | dB _{μV/m} | dB | Peak | |
| 4961.00 | 38.19 | 2.67 | 40.86 | 74.00 | -33.14 | PK | Horizontal |
| 11557.00 ^{**} | 30.66 | 17.67 | 48.33 | 74.00 | -25.67 | PK | Horizontal |
| 4961.00 | 36.88 | 2.67 | 39.55 | 74.00 | -34.45 | PK | Vertical |

Remark:

- (1) Emission level= Original Receiver Reading + Correct Factor



- (2) Correct Factor = Antenna Factor + Cable Loss -Amplifier gain
 (3) Margin = limit – Corrected Reading
 (4) “**” is not in restricted band, its limit is 20dBc of the fundamental emission level or 15.209 which is higher.

For model: SZU06C2

2405MHz

| Frequency | Reading Level | Factor | Measure Level | Limit | Margin | Detector | Polarization |
|--------------|---------------|--------|---------------|--------------|--------|----------|--------------|
| MHz | dBuV/m | dB | dBuV/m | dB μ V/m | dB | Peak | |
| 4808.00 | 51.15 | 2.66 | 53.81 | 74.00 | -20.19 | PK | Horizontal |
| 4810.00 | 45.36 | 2.65 | 48.01 | 54.00 | -5.99 | AV | Horizontal |
| 7213.50 | 44.77 | 10.62 | 55.40 | 74.00 | -18.60 | PK | Horizontal |
| 9619.00 | 41.42 | 12.45 | 53.87 | 74.00 | -20.13 | PK | Horizontal |
| 4808.00 | 50.45 | 2.66 | 53.11 | 74.00 | -20.89 | PK | Vertical |
| 4808.00 | 42.69 | 2.66 | 45.35 | 54.00 | -8.65 | AV | Vertical |
| 7213.50 | 45.40 | 10.62 | 56.03 | 74.00 | -17.98 | PK | Vertical |
| 9619.00 | 39.56 | 12.45 | 52.01 | 74.00 | -21.99 | PK | Vertical |
| 12024.50“**” | 33.58 | 17.01 | 50.59 | 74.00 | -23.41 | PK | Vertical |

2445MHz

| Frequency | Reading Level | Factor | Measure Level | Limit | Margin | Detector | Polarization |
|-----------|---------------|--------|---------------|--------------|--------|----------|--------------|
| MHz | dBuV/m | dB | dBuV/m | dB μ V/m | dB | Peak | |
| 4876.00 | 50.33 | 2.61 | 52.94 | 74.00 | -21.06 | PK | Horizontal |
| 4876.00 | 43.62 | 2.61 | 46.23 | 54.00 | -7.77 | AV | Horizontal |
| 7315.50 | 39.18 | 10.67 | 49.84 | 74.00 | -24.16 | PK | Horizontal |
| 9763.50 | 41.66 | 12.83 | 54.49 | 74.00 | -19.51 | PK | Horizontal |
| 4884.50 | 49.61 | 2.69 | 52.30 | 74.00 | -21.70 | PK | Vertical |
| 4884.50 | 42.69 | 2.69 | 45.38 | 54.00 | -8.63 | AV | Vertical |
| 7315.50 | 41.67 | 10.67 | 52.33 | 74.00 | -21.67 | PK | Vertical |
| 9763.50 | 40.11 | 12.83 | 52.94 | 74.00 | -21.06 | PK | Vertical |

2475MHz

| Frequency | Reading Level | Factor | Measure Level | Limit | Margin | Detector | Polarization |
|-----------|---------------|--------|---------------|--------------|--------|----------|--------------|
| MHz | dBuV/m | dB | dBuV/m | dB μ V/m | dB | Peak | |
| 4952.50 | 48.51 | 2.69 | 51.20 | 74.00 | -22.81 | PK | Horizontal |
| 7426.00 | 37.70 | 10.74 | 48.44 | 74.00 | -25.56 | PK | Horizontal |
| 9899.50 | 40.75 | 13.35 | 54.09 | 74.00 | -19.91 | PK | Horizontal |
| 4952.50 | 48.92 | 2.69 | 51.61 | 74.00 | -22.39 | PK | Vertical |
| 7426.00 | 38.13 | 10.74 | 48.87 | 74.00 | -25.13 | PK | Vertical |
| 9899.50 | 42.29 | 13.35 | 55.64 | 74.00 | -18.36 | PK | Vertical |

2480MHz

| Frequency | Reading | Factor | Measure | Limit | Margin | Detector | Polarization |
|-----------|---------|--------|---------|-------|--------|----------|--------------|
|-----------|---------|--------|---------|-------|--------|----------|--------------|



| MHz | Level | | Level | | dB | Peak |
|-------------------------|--------|-------|--------|--------|--------|---------------|
| | dBuV/m | dB | dBuV/m | dBµV/m | | |
| 4961.00 | 47.52 | 2.67 | 50.19 | 74.00 | -23.81 | PK Horizontal |
| 7443.00 | 38.71 | 10.74 | 49.45 | 74.00 | -24.55 | PK Horizontal |
| 9916.50 | 42.80 | 13.42 | 56.21 | 74.00 | -17.79 | PK Horizontal |
| 14464.00 ^{***} | 33.34 | 20.90 | 54.25 | 74.00 | -19.76 | PK Horizontal |
| 4961.00 | 47.98 | 2.67 | 50.65 | 74.00 | -23.35 | PK Vertical |
| 7443.00 | 37.46 | 10.74 | 48.20 | 74.00 | -25.80 | PK Vertical |
| 9925.00 | 42.14 | 13.33 | 55.47 | 74.00 | -18.53 | PK Vertical |

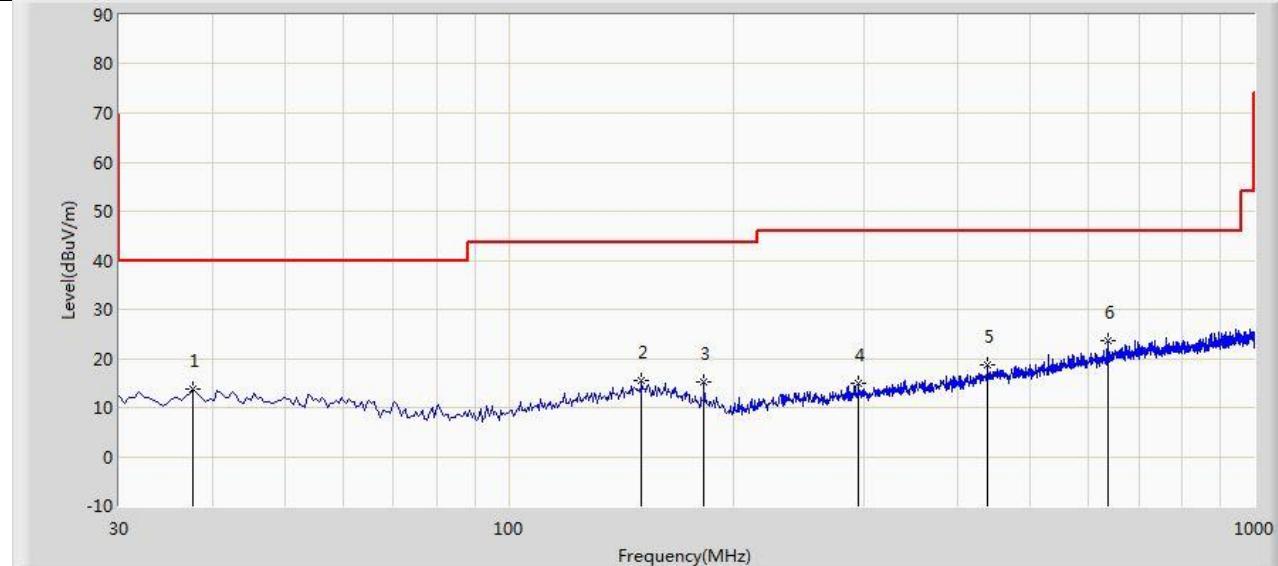
Remark:

- (1) Emission level= Original Receiver Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss -Amplifier gain
- (3) Margin = limit – Corrected Reading
- (4) ^{***} is not in restricted band, its limit is 20dBc of the fundamental emission level or 15.209 which is higher.

The worst case of Radiated Emission below 1GHz:

| | |
|------------------------------|--------------------------|
| Site: AC1 | Time: 2017/08/30 - 04:16 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: VULB 9168_20-2000MHz | Polarity: Horizontal |
| EUT: SZU06C1 | Power: By PC |

Test Mode: Transmit by Zigbee at Channel 2445MHz



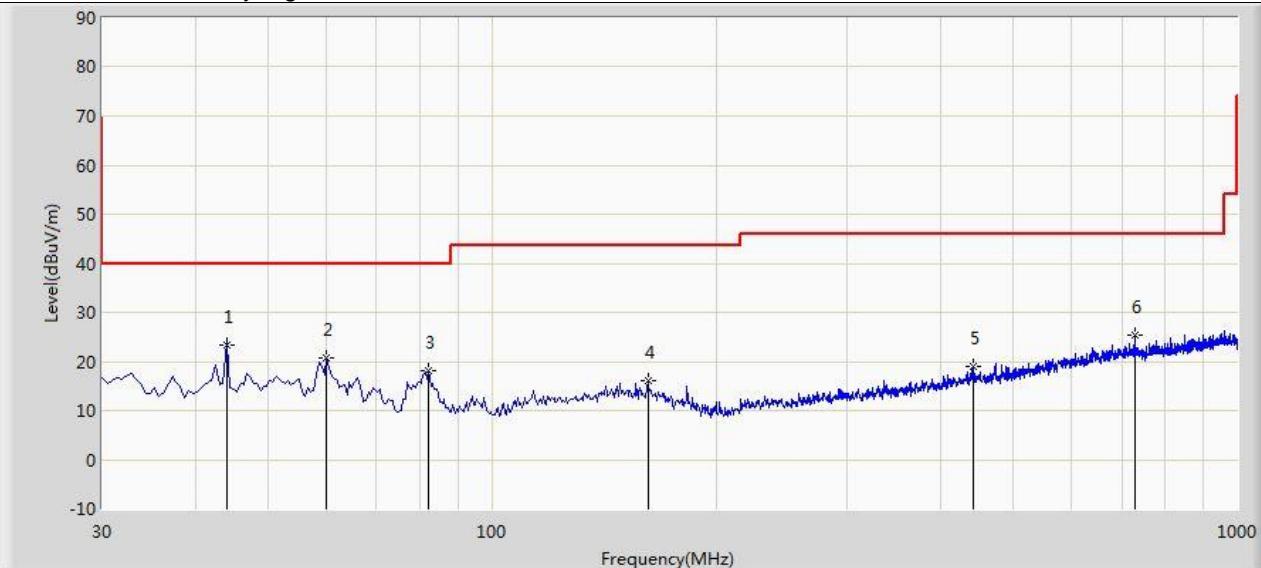
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 37.760 | 13.793 | -0.438 | -26.207 | 40.000 | 14.231 | PK |
| 2 | | | 150.765 | 15.376 | 0.194 | -28.124 | 43.500 | 15.182 | PK |
| 3 | | | 182.775 | 15.075 | 2.599 | -28.425 | 43.500 | 12.477 | PK |
| 4 | | | 294.325 | 14.849 | 0.699 | -31.151 | 46.000 | 14.150 | PK |
| 5 | | | 438.370 | 18.673 | 1.127 | -27.327 | 46.000 | 17.546 | PK |
| 6 | * | | 635.765 | 23.481 | 2.309 | -22.519 | 46.000 | 21.173 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/08/30 - 04:18 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: VULB 9168 _20-2000MHz | Polarity: Vertical |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2445MHz | |



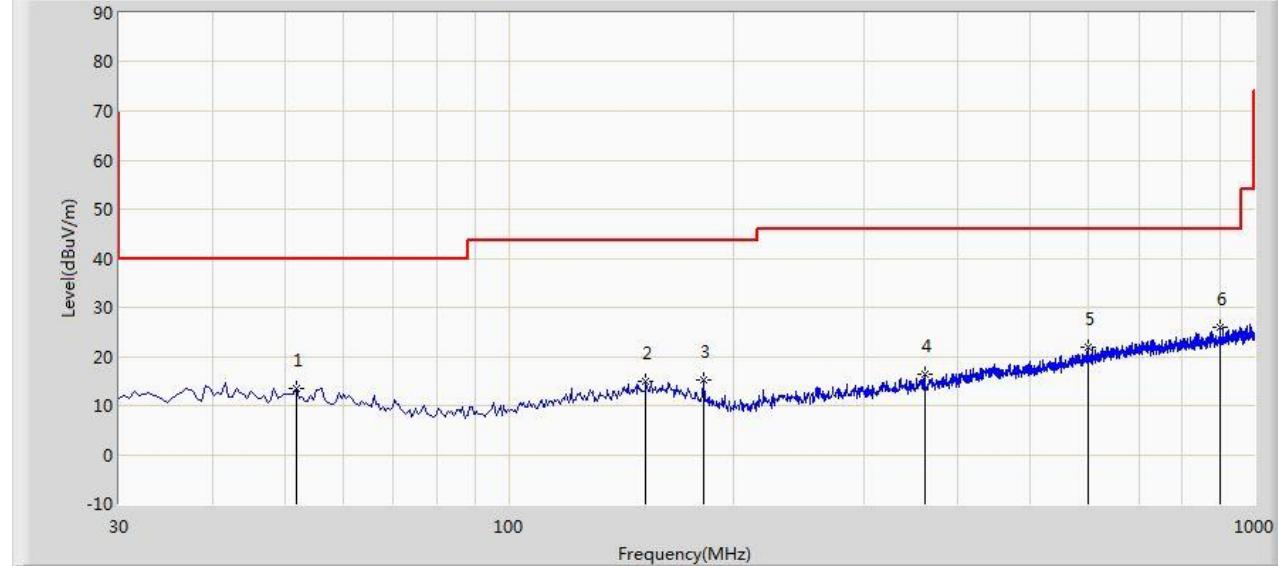
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 44.065 | 23.427 | 9.183 | -16.573 | 40.000 | 14.244 | PK |
| 2 | | | 60.070 | 20.850 | 7.538 | -19.150 | 40.000 | 13.312 | PK |
| 3 | | | 82.380 | 18.003 | 7.935 | -21.997 | 40.000 | 10.068 | PK |
| 4 | | | 161.920 | 16.122 | 1.100 | -27.378 | 43.500 | 15.022 | PK |
| 5 | | | 441.765 | 19.050 | 1.435 | -26.950 | 46.000 | 17.615 | PK |
| 6 | | | 728.885 | 25.458 | 3.029 | -20.542 | 46.000 | 22.429 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|------------------------------|--------------------------|
| Site: AC1 | Time: 2017/08/30 - 04:36 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Flag Yang |
| Probe: VULB 9168_20-2000MHz | Polarity: Horizontal |
| EUT: SZU06C2 | Power: By PC |

Test Mode: Transmit by Zigbee at Channel 2480MHz



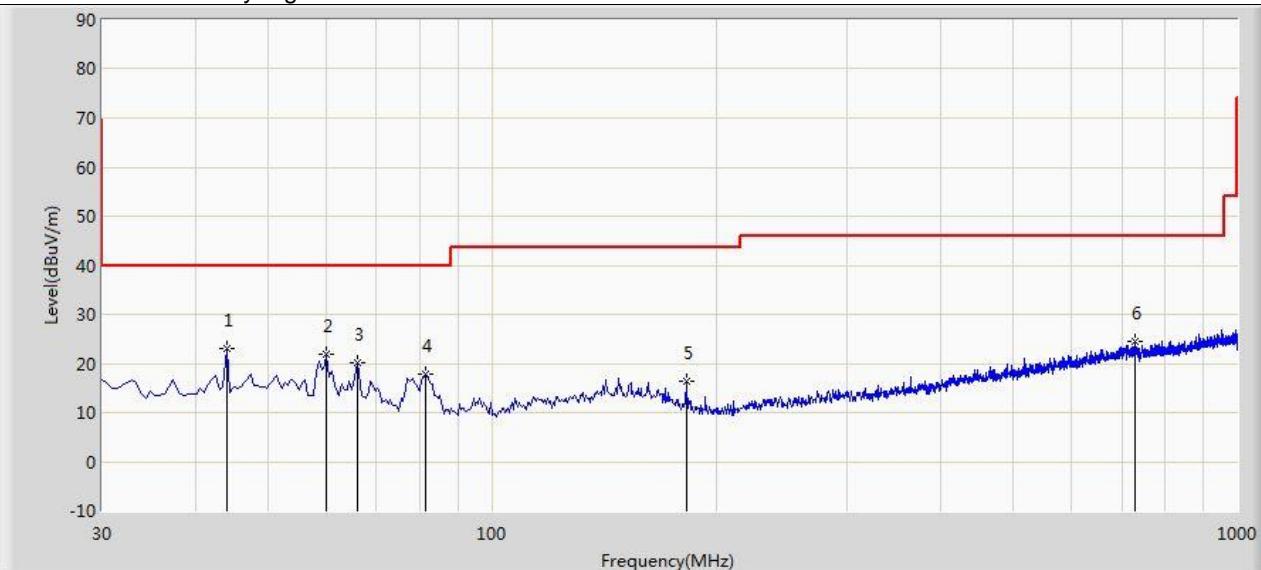
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 51.825 | 13.385 | -0.535 | -26.615 | 40.000 | 13.921 | PK |
| 2 | | | 152.705 | 14.861 | -0.326 | -28.639 | 43.500 | 15.188 | PK |
| 3 | | | 182.290 | 15.353 | 2.821 | -28.147 | 43.500 | 12.532 | PK |
| 4 | | | 361.255 | 16.394 | 0.695 | -29.606 | 46.000 | 15.699 | PK |
| 5 | | | 597.935 | 22.006 | 1.566 | -23.994 | 46.000 | 20.440 | PK |
| 6 | * | | 902.030 | 25.962 | 1.584 | -20.038 | 46.000 | 24.378 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/08/30 - 04:38 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Flag Yang |
| Probe: VULB 9168 _20-2000MHz | Polarity: Vertical |
| EUT: SZU06C2 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2480MHz | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 44.065 | 23.185 | 8.941 | -16.815 | 40.000 | 14.244 | PK |
| 2 | | | 60.070 | 21.779 | 8.467 | -18.221 | 40.000 | 13.312 | PK |
| 3 | | | 65.890 | 20.215 | 7.950 | -19.785 | 40.000 | 12.265 | PK |
| 4 | | | 81.410 | 17.918 | 7.872 | -22.082 | 40.000 | 10.046 | PK |
| 5 | | | 182.290 | 16.357 | 3.825 | -27.143 | 43.500 | 12.532 | PK |
| 6 | | | 727.915 | 24.512 | 2.102 | -21.488 | 46.000 | 22.410 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

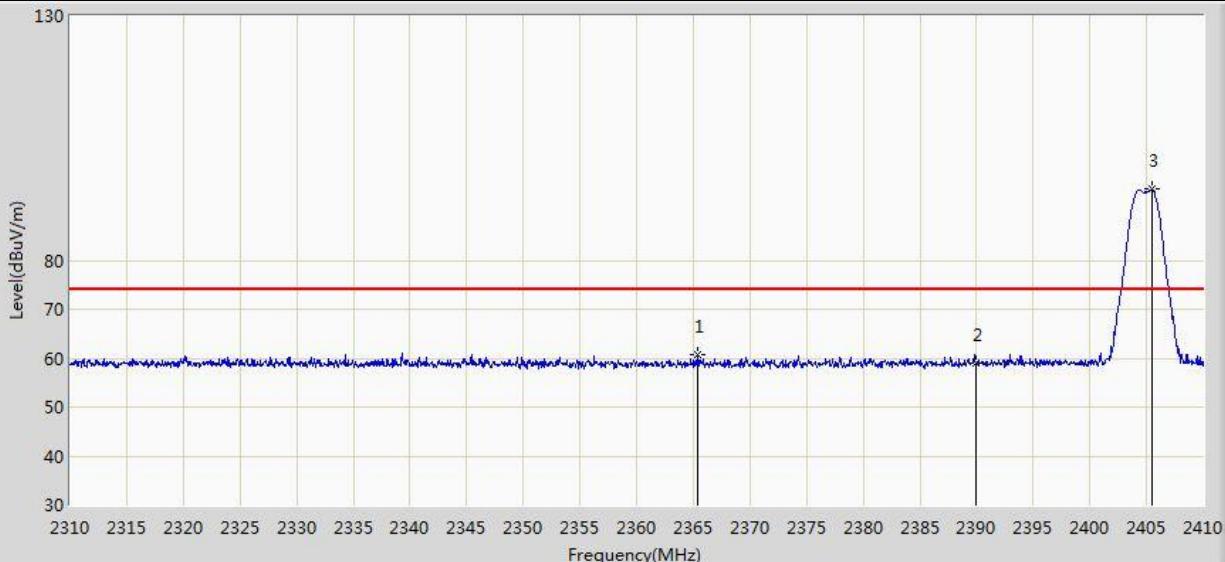
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Radiated Restricted Band Edge Measurement

Test Result:

| | |
|------------------------------|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:20 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C1 | Power: By PC |

Test Mode: Transmit by Zigbee at Channel 2405MHz



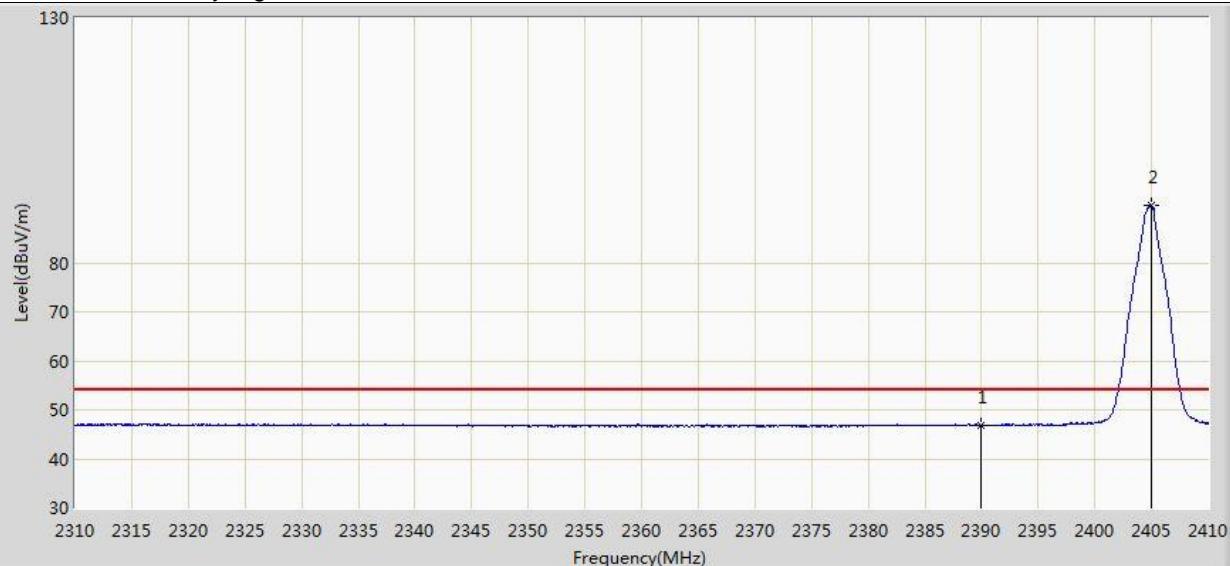
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2365.400 | 60.747 | 28.511 | -13.253 | 74.000 | 32.236 | PK |
| 2 | | | 2390.000 | 59.086 | 26.808 | -14.914 | 74.000 | 32.278 | PK |
| 3 | | * | 2405.450 | 94.512 | 62.250 | N/A | N/A | 32.262 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:27 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2405MHz | |

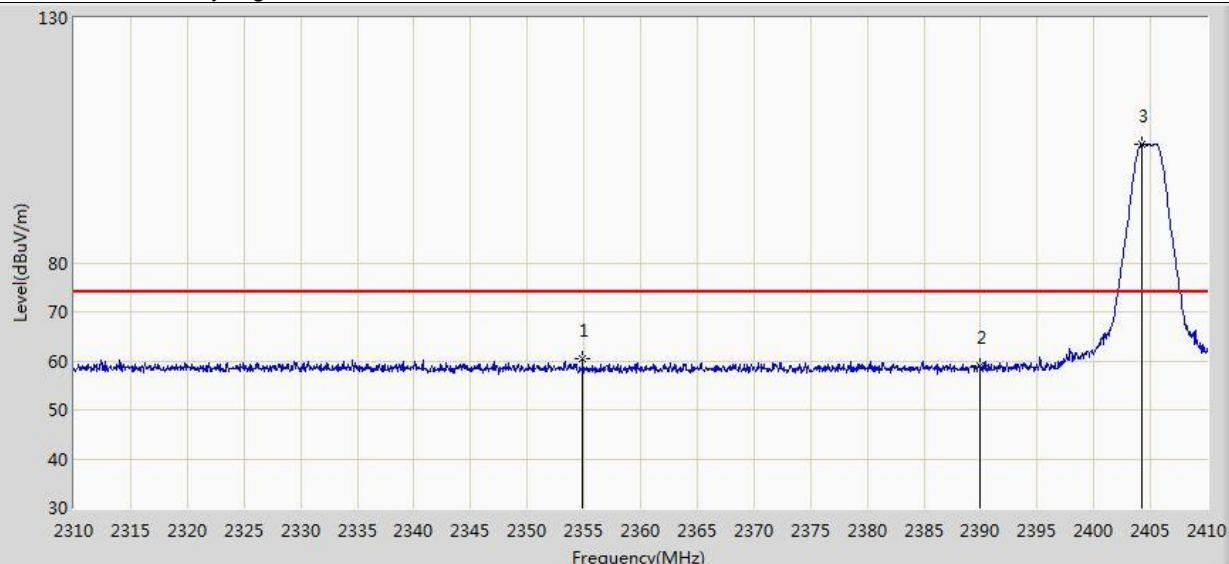


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2390.000 | 46.834 | 14.556 | -7.166 | 54.000 | 32.278 | AV |
| 2 | * | | 2404.950 | 91.709 | 59.445 | N/A | N/A | 32.264 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:28 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2405MHz | |



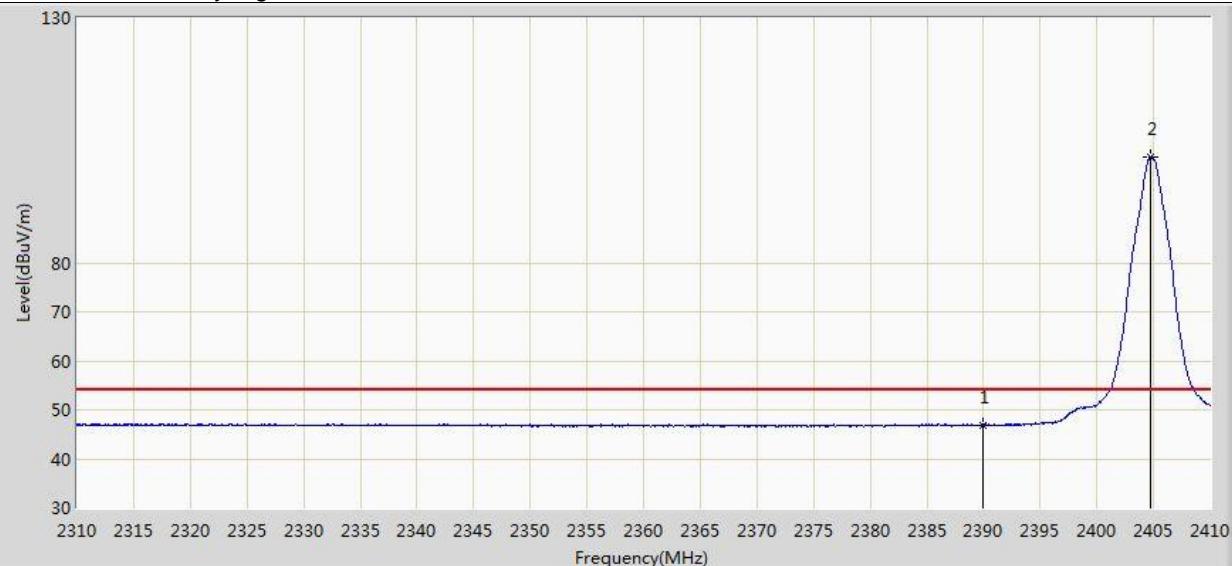
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2354.850 | 60.364 | 28.101 | -13.636 | 74.000 | 32.264 | PK |
| 2 | | | 2390.000 | 58.889 | 26.611 | -15.111 | 74.000 | 32.278 | PK |
| 3 | * | * | 2404.200 | 104.226 | 71.960 | N/A | N/A | 32.266 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:30 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2405MHz | |



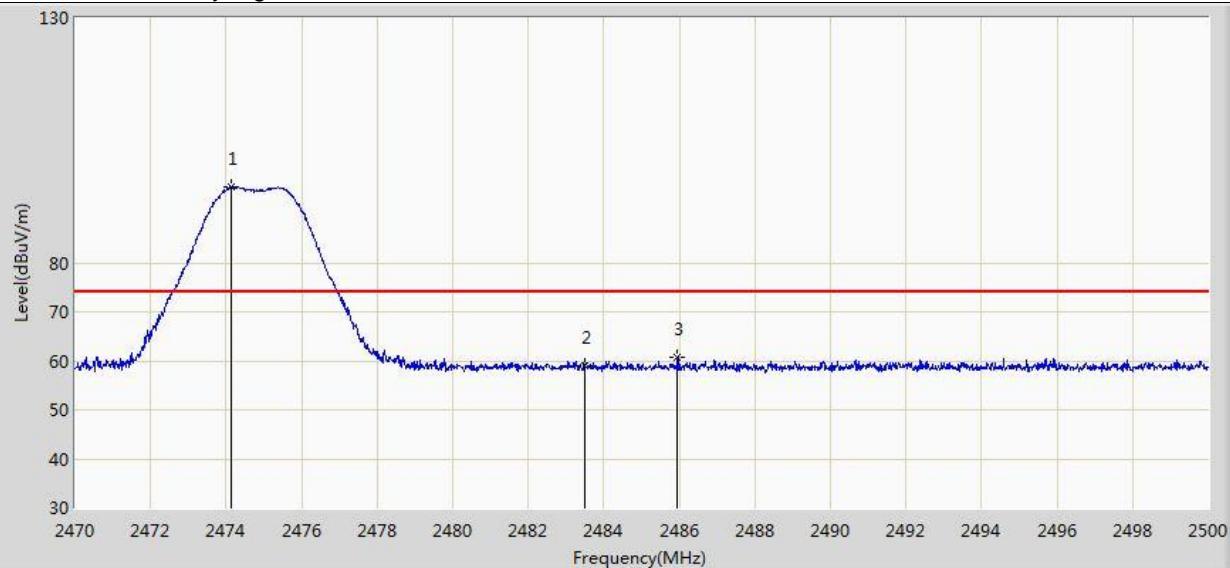
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2390.000 | 46.875 | 14.597 | -7.125 | 54.000 | 32.278 | AV |
| 2 | * | | 2404.700 | 101.580 | 69.315 | N/A | N/A | 32.265 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:32 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2475MHz | |



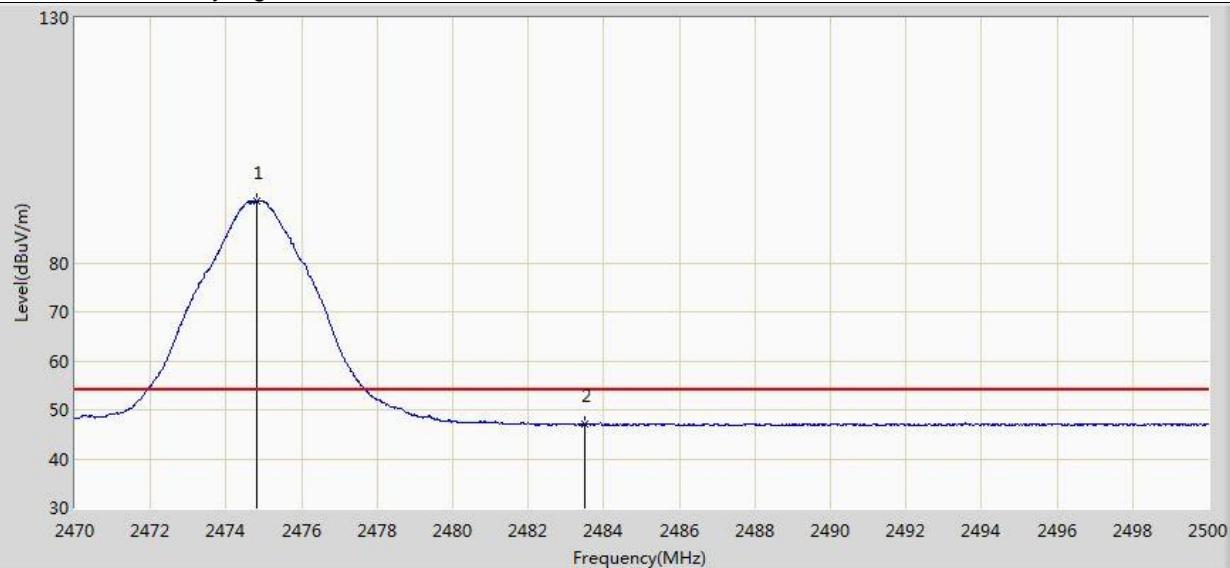
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.140 | 95.374 | 63.117 | N/A | N/A | 32.258 | PK |
| 2 | | | 2483.500 | 58.893 | 26.612 | -15.107 | 74.000 | 32.282 | PK |
| 3 | | | 2485.945 | 60.651 | 28.361 | -13.349 | 74.000 | 32.290 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:35 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2475MHz | |



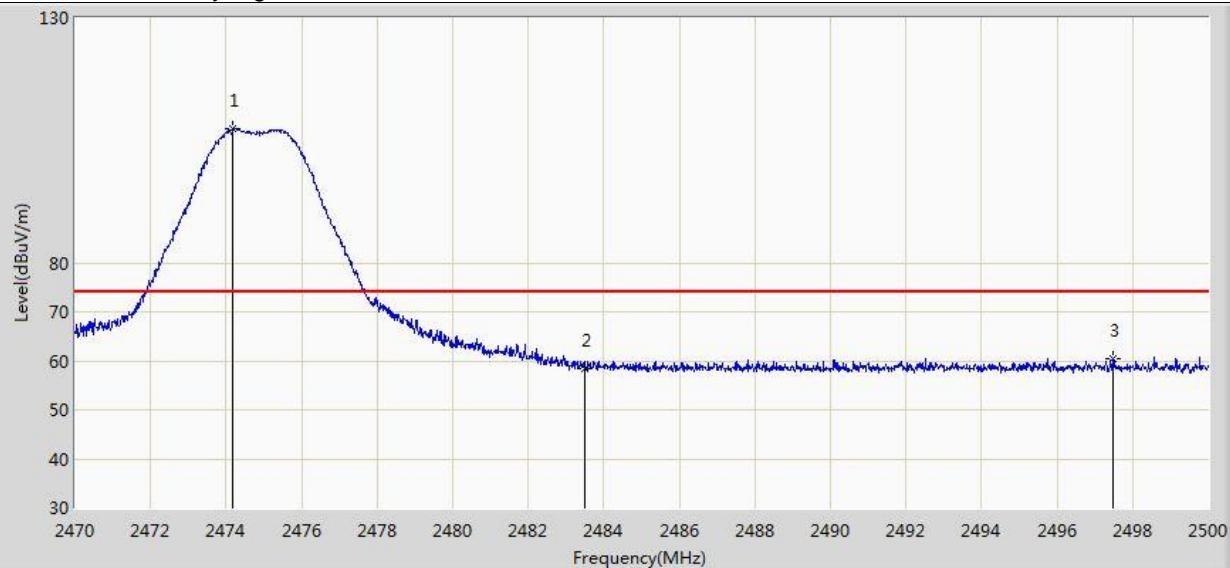
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.830 | 92.636 | 60.377 | N/A | N/A | 32.259 | AV |
| 2 | | | 2483.500 | 47.006 | 14.725 | -6.994 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:36 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2475MHz | |



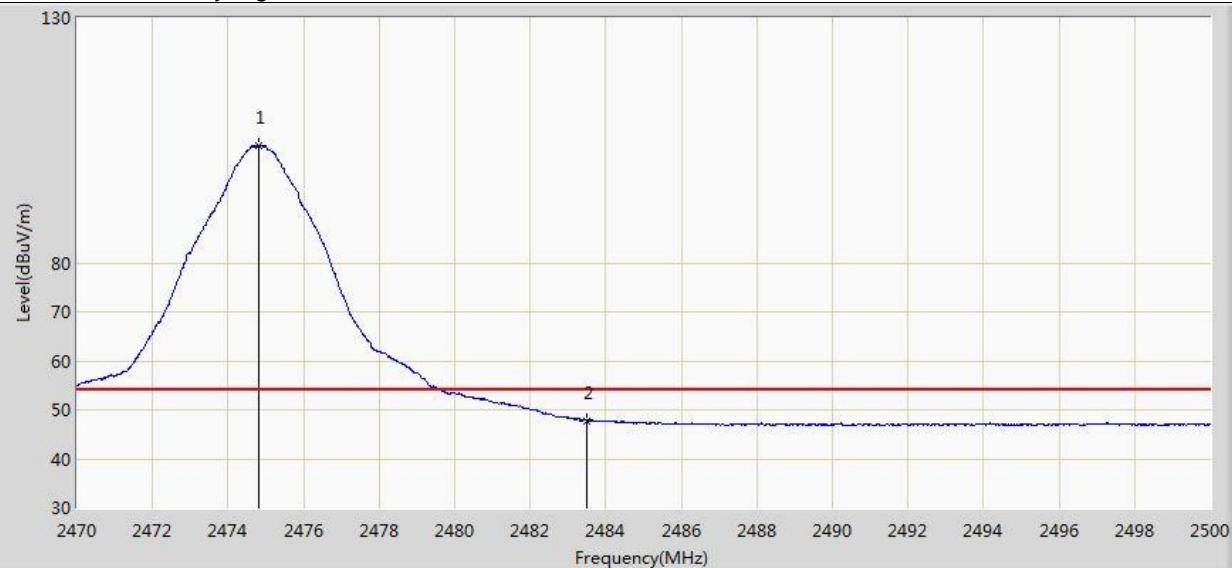
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.185 | 107.287 | 75.030 | N/A | N/A | 32.258 | PK |
| 2 | | | 2483.500 | 58.414 | 26.133 | -15.586 | 74.000 | 32.282 | PK |
| 3 | | | 2497.495 | 60.534 | 28.214 | -13.466 | 74.000 | 32.320 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC1 | Time: 2017/09/23 - 06:38 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C1 | Power: By PC |
| Test Mode: Transmit by Zigbee at Channel 2475MHz | |

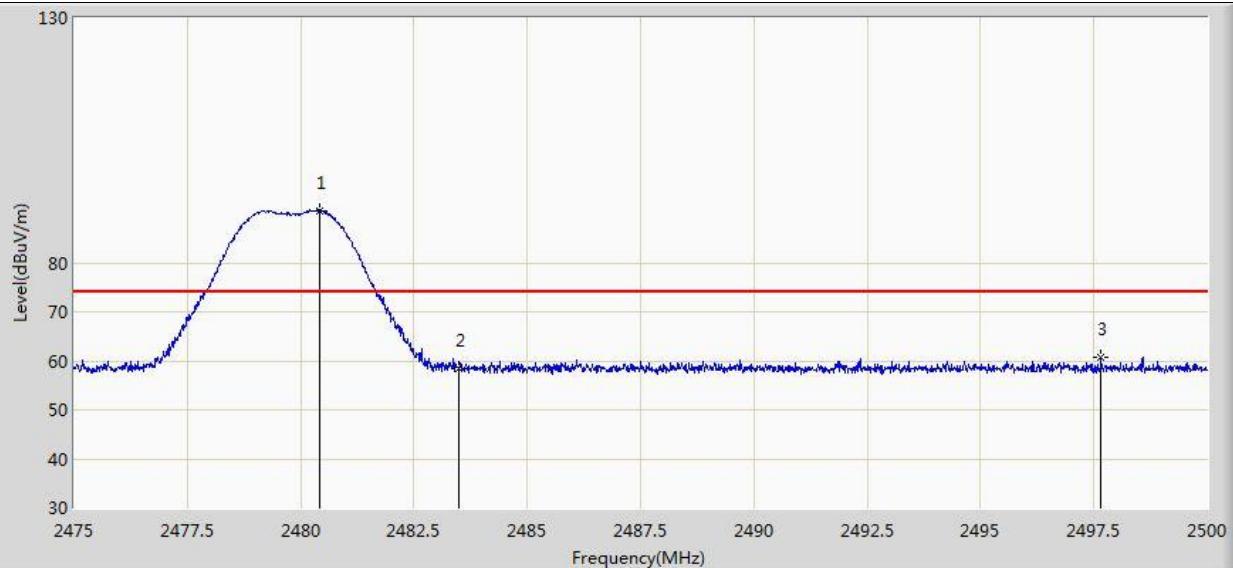


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.830 | 103.929 | 71.670 | N/A | N/A | 32.259 | AV |
| 2 | | | 2483.500 | 47.809 | 15.528 | -6.191 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 07:02 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C1 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |



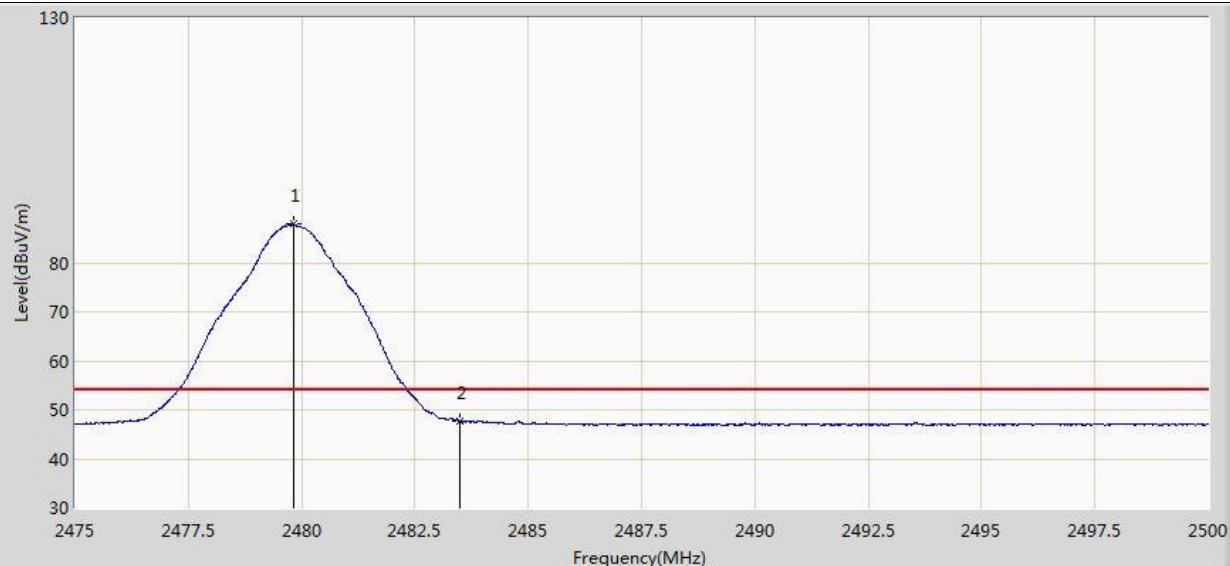
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2480.425 | 90.715 | 58.444 | N/A | N/A | 32.271 | PK |
| 2 | | | 2483.500 | 58.340 | 26.059 | -15.660 | 74.000 | 32.282 | PK |
| 3 | | | 2497.650 | 60.603 | 28.284 | -13.397 | 74.000 | 32.319 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 07:03 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C1 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |

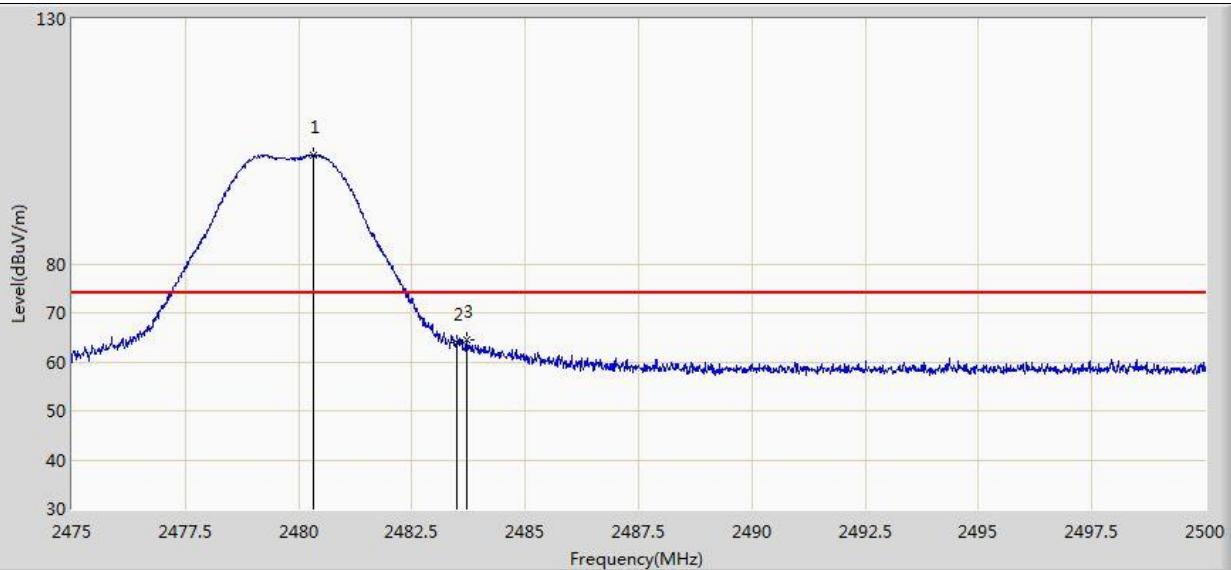


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2479.812 | 87.855 | 55.587 | N/A | N/A | 32.269 | AV |
| 2 | | | 2483.500 | 47.716 | 15.435 | -6.284 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 07:00 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C1 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |



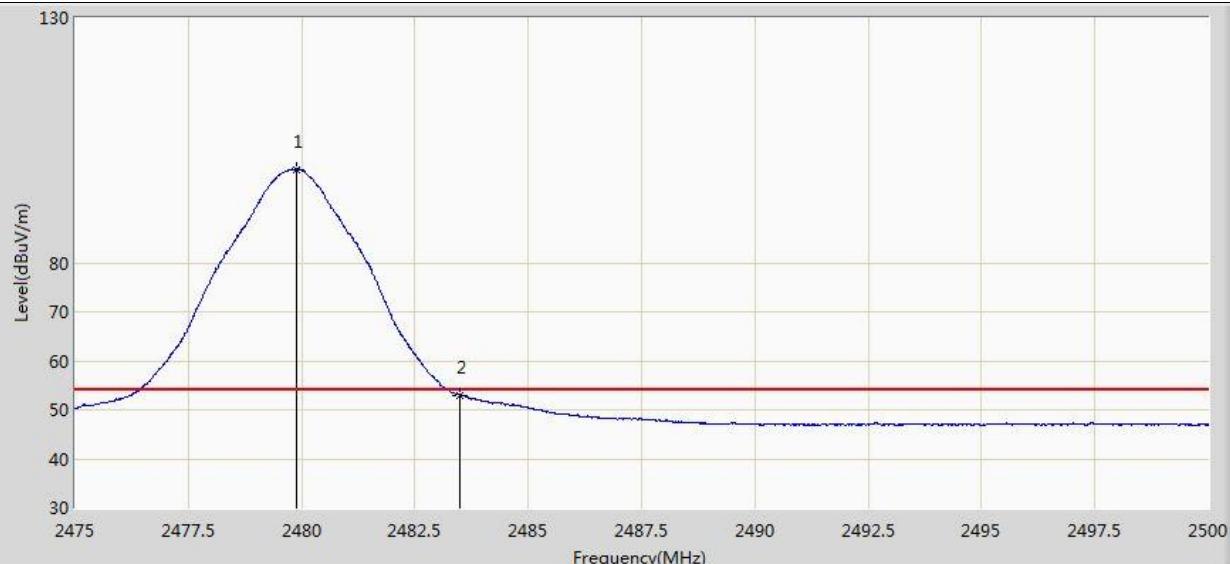
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | | 2480.325 | 102.205 | 69.935 | N/A | N/A | 32.270 | PK |
| 2 | | | 2483.500 | 63.784 | 31.503 | -10.216 | 74.000 | 32.282 | PK |
| 3 | | | 2483.700 | 64.630 | 32.348 | -9.370 | 74.000 | 32.282 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 06:59 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C1 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |



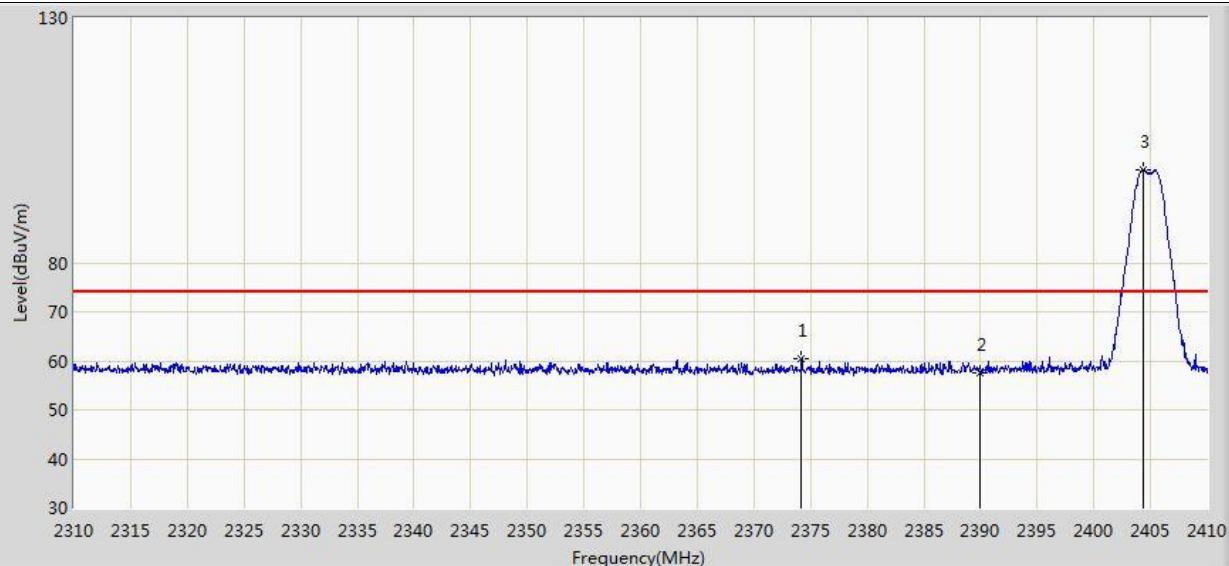
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2479.887 | 99.130 | 66.861 | N/A | N/A | 32.269 | AV |
| 2 | | | 2483.500 | 53.008 | 20.727 | -0.992 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 07:31 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2405MHz | |



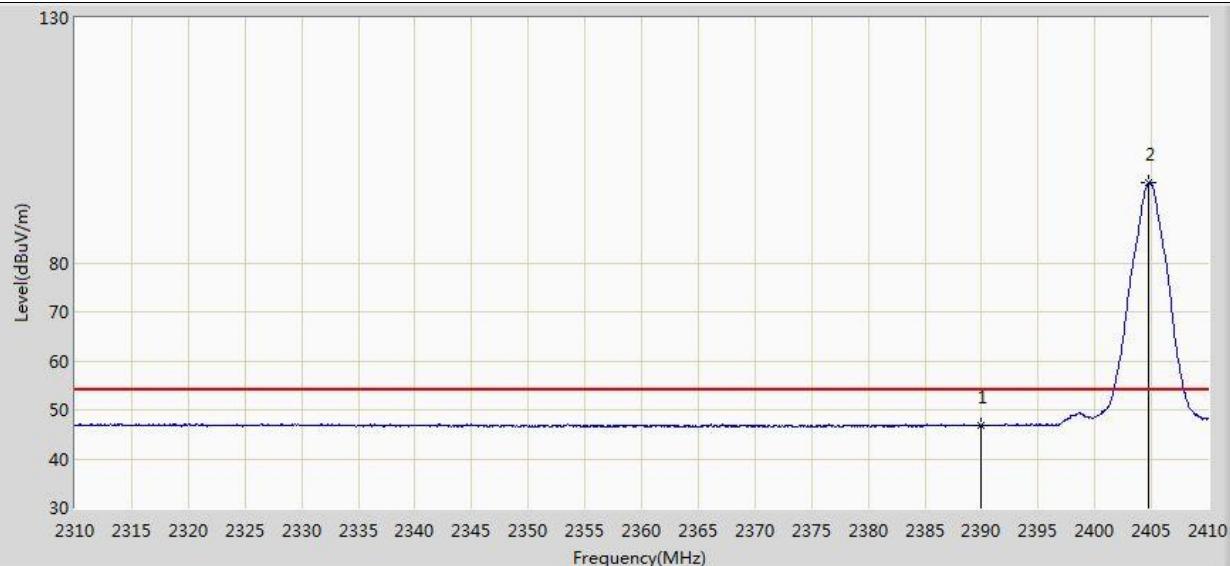
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2374.200 | 60.423 | 28.210 | -13.577 | 74.000 | 32.213 | PK |
| 2 | | | 2390.000 | 57.642 | 25.364 | -16.358 | 74.000 | 32.278 | PK |
| 3 | * | | 2404.350 | 98.981 | 66.715 | N/A | N/A | 32.266 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:43 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2405MHz | |

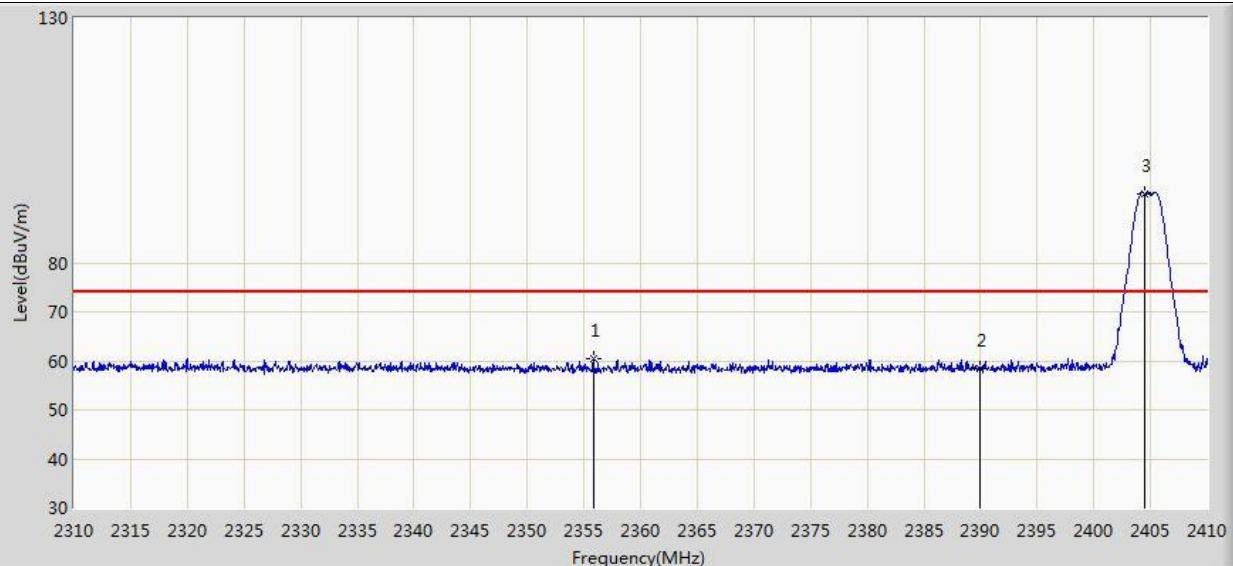


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2390.000 | 46.935 | 14.657 | -7.065 | 54.000 | 32.278 | AV |
| 2 | * | | 2404.700 | 96.310 | 64.045 | N/A | N/A | 32.265 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:44 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2405MHz | |



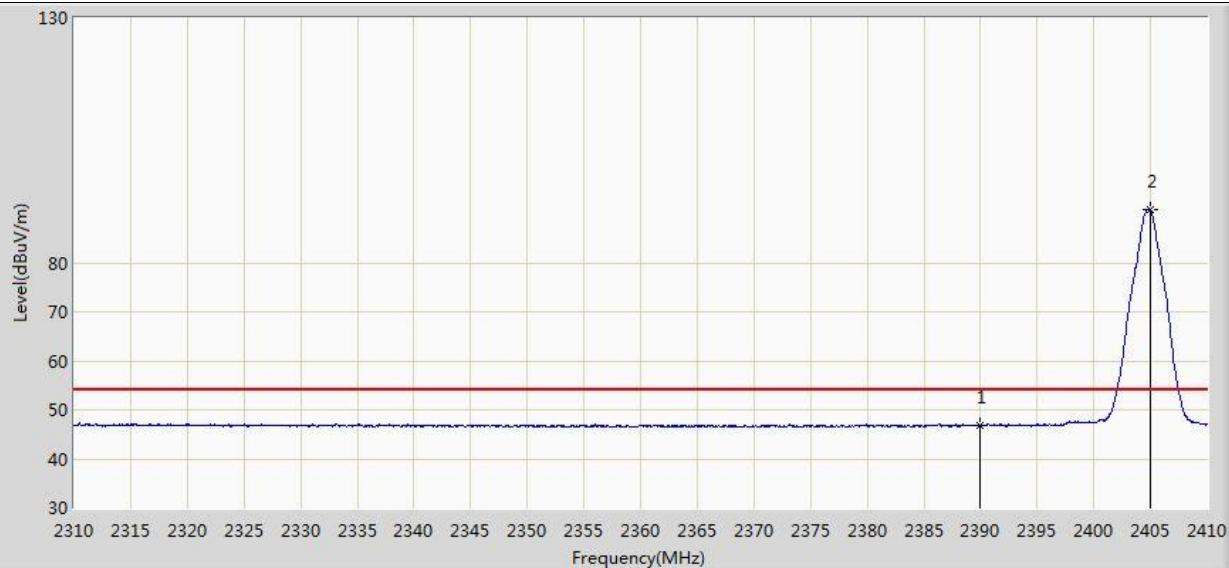
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2355.850 | 60.291 | 28.031 | -13.709 | 74.000 | 32.259 | PK |
| 2 | | | 2390.000 | 58.428 | 26.150 | -15.572 | 74.000 | 32.278 | PK |
| 3 | * | * | 2404.500 | 94.133 | 61.868 | N/A | N/A | 32.265 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:46 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2405MHz | |



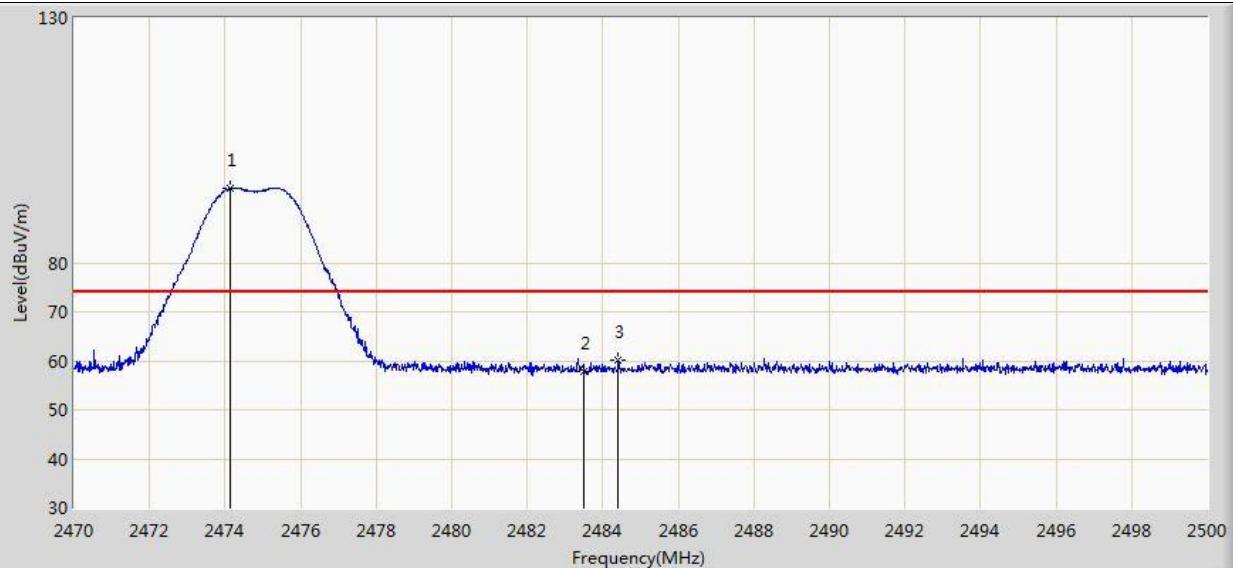
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | | 2390.000 | 46.789 | 14.511 | -7.211 | 54.000 | 32.278 | AV |
| 2 | * | * | 2404.950 | 90.825 | 58.561 | N/A | N/A | 32.264 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:47 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2475MHz | |



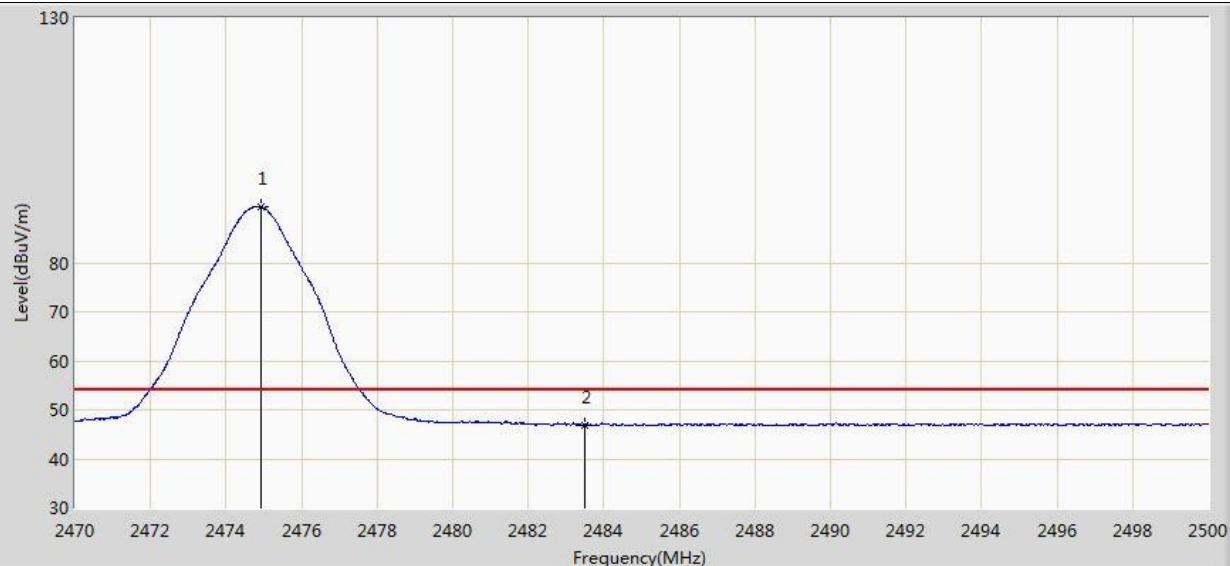
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.140 | 95.221 | 62.964 | N/A | N/A | 32.258 | PK |
| 2 | | | 2483.500 | 57.868 | 25.587 | -16.132 | 74.000 | 32.282 | PK |
| 3 | | | 2484.415 | 60.054 | 27.770 | -13.946 | 74.000 | 32.284 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:48 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2475MHz | |



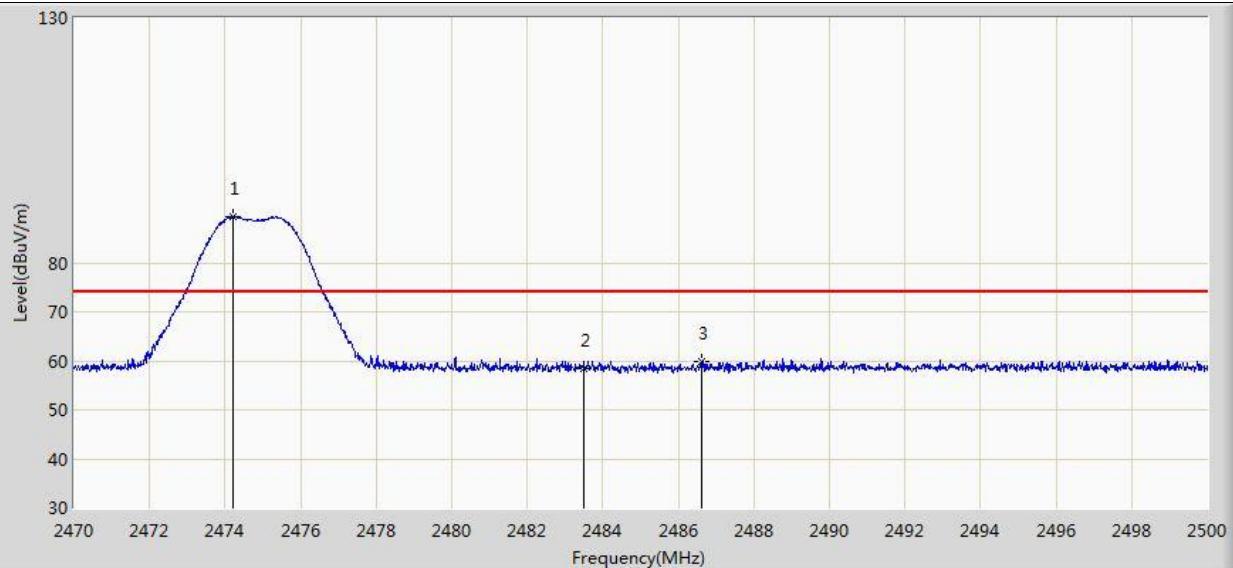
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.935 | 91.351 | 59.092 | N/A | N/A | 32.259 | AV |
| 2 | | | 2483.500 | 46.934 | 14.653 | -7.066 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:48 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2475MHz | |



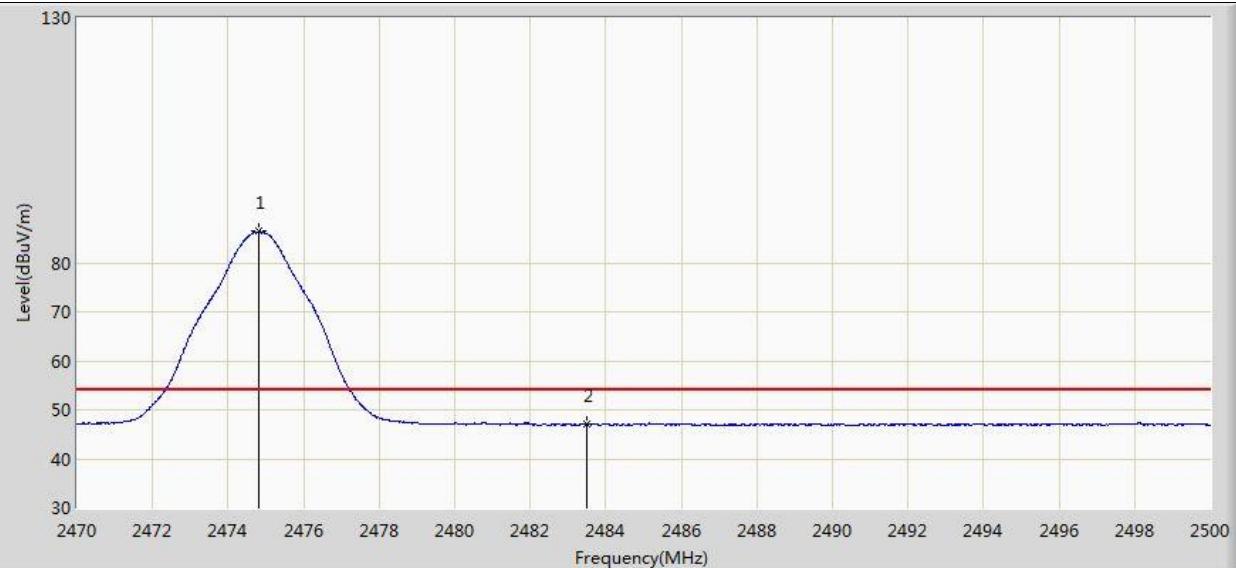
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.200 | 89.475 | 57.218 | N/A | N/A | 32.258 | PK |
| 2 | | | 2483.500 | 58.303 | 26.022 | -15.697 | 74.000 | 32.282 | PK |
| 3 | | | 2486.635 | 59.989 | 27.697 | -14.011 | 74.000 | 32.292 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:50 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2475MHz | |

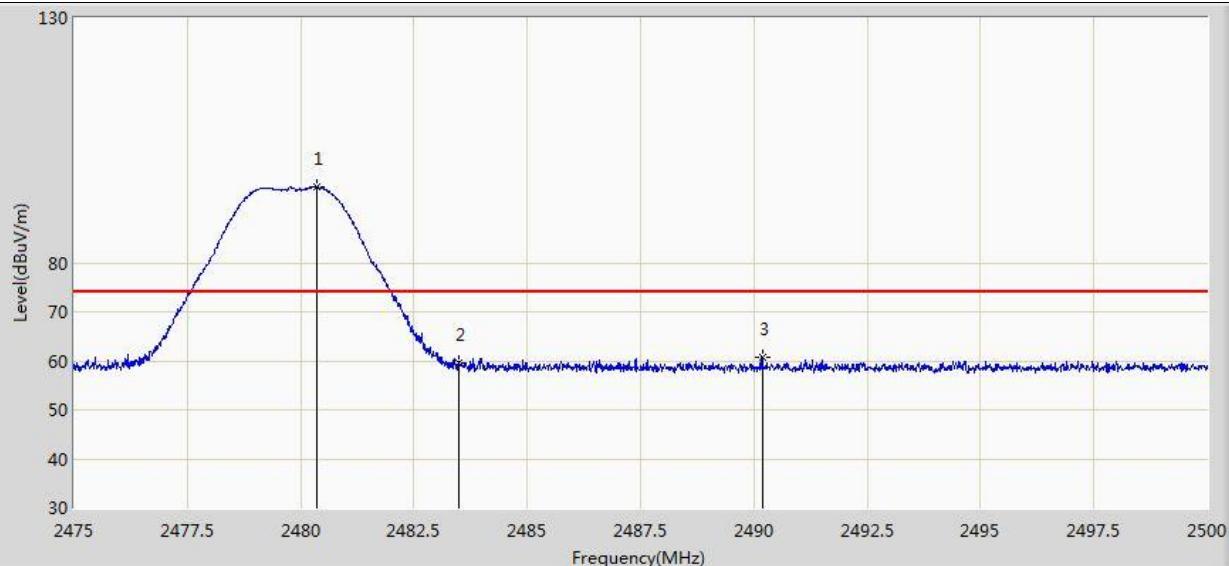


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2474.830 | 86.398 | 54.139 | N/A | N/A | 32.259 | AV |
| 2 | | | 2483.500 | 47.187 | 14.906 | -6.813 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:50 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |

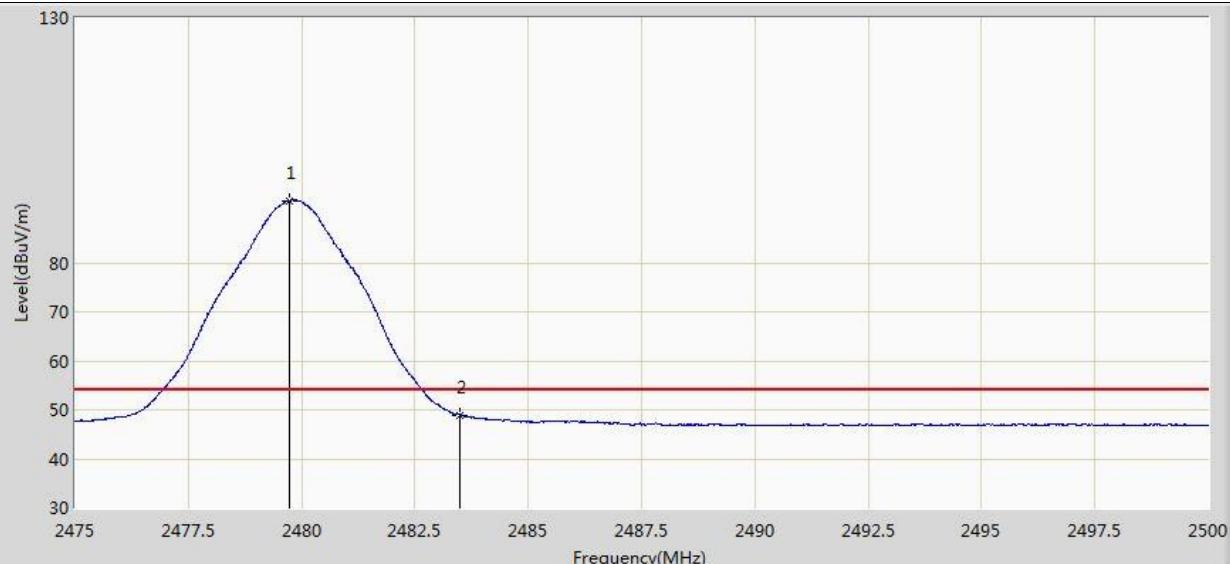


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2480.350 | 95.449 | 63.179 | N/A | N/A | 32.270 | PK |
| 2 | | | 2483.500 | 59.647 | 27.366 | -14.353 | 74.000 | 32.282 | PK |
| 3 | | | 2490.187 | 60.605 | 28.301 | -13.395 | 74.000 | 32.305 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:52 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |



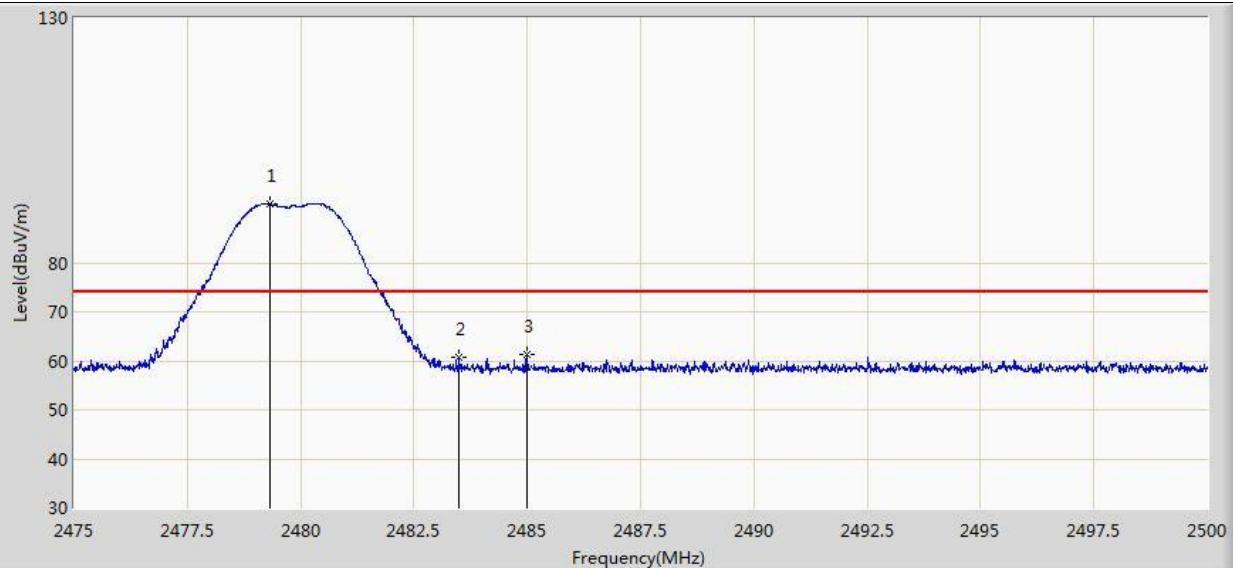
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2479.725 | 92.654 | 60.386 | N/A | N/A | 32.268 | AV |
| 2 | | | 2483.500 | 48.921 | 16.640 | -5.079 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:57 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |



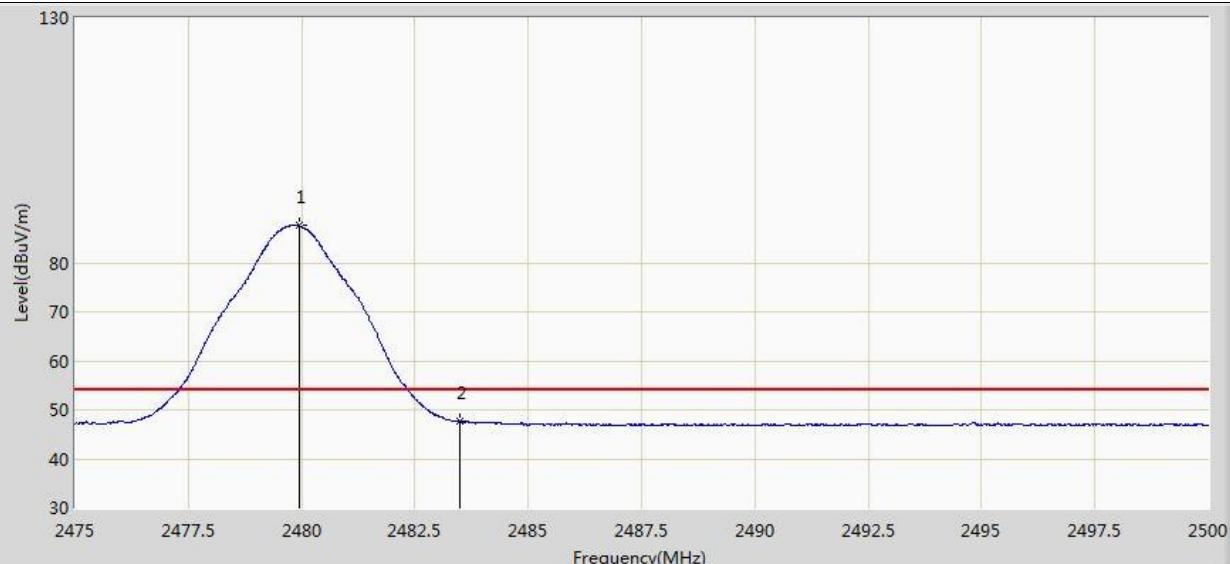
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2479.337 | 91.973 | 59.706 | N/A | N/A | 32.267 | PK |
| 2 | | | 2483.500 | 60.591 | 28.310 | -13.409 | 74.000 | 32.282 | PK |
| 3 | | | 2484.988 | 61.256 | 28.970 | -12.744 | 74.000 | 32.286 | PK |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



| | |
|--|--------------------------|
| Site: AC2 | Time: 2017/09/23 - 05:59 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Snake Ni |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: SZU06C2 | Power: By USB |
| Test Mode: Transmit at channel 2480MHz | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | * | 2479.937 | 87.631 | 55.362 | N/A | N/A | 32.269 | AV |
| 2 | | | 2483.500 | 47.659 | 15.378 | -6.341 | 54.000 | 32.282 | AV |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

10 Test Equipment List

List of Test Instruments

Test Site1

| | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | CAL. DUE DATE |
|----|-------------------------------------|-----------------|-----------|------------|---------------|
| C | Signal Analyzer | Rohde & Schwarz | FSV40 | 101091 | 2018-8-7 |
| RE | EMI Test Receiver | Rohde & Schwarz | ESR3 | 101906 | 2018-8-7 |
| | Trilog Super Broadband Test Antenna | Schwarzbeck | VULB 9163 | 848 | 2018-9-17 |
| | Horn Antenna | Rohde & Schwarz | HF907 | 102393 | 2018-9-17 |
| | Pre-amplifier | Rohde & Schwarz | SCU-18D | 19006451 | 2018-8-7 |
| | 3m Semi-anechoic chamber | TDK | 9X6X6 | ---- | 2018-5-20 |
| CE | EMI Test Receiver | Rohde & Schwarz | ESR 3 | 101907 | 2018-8-7 |
| | LISN | Rohde & Schwarz | ENV4200 | 100224 | 2018-8-7 |
| | LISN | Rohde & Schwarz | ENV216 | 101924 | 2018-8-7 |

Test Site2

Radiated Disturbance – AC1

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cal. Due Date |
|----------------------------|--------------|-------------|-------------|----------------|---------------|
| MXE EMI Receiver | Agilent | N9038A | MRTSUE06125 | 1 year | 2018/08/02 |
| Loop Antenna | Schwarzbeck | FMZB1519 | MRTSUE06025 | 1 year | 2017/12/21 |
| Microwave System Amplifier | Agilent | 83017A | MRTSUE06076 | 1 year | 2018/03/28 |
| Bilog Period Antenna | Schwarzbeck | VULB 9168 | MRTSUE06172 | 1 year | 2017/11/19 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9120D | MRTSUE06023 | 1 year | 2017/10/22 |
| Broadband Horn Antenna | Schwarzbeck | BBHA9170 | MRTSUE06024 | 1 year | 2018/01/04 |
| Temperature/Humidity Meter | Yuhuaze | HTC-2 | MRTSUE06183 | 1 year | 2017/12/20 |
| Anechoic Chamber | TDK | Chamber-AC1 | MRTSUE06212 | 1 year | 2018/05/10 |

Conducted Test Equipment - TR3

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cal. Due Date |
|----------------------------|--------------|----------|-------------|----------------|---------------|
| Spectrum Analyzer | Agilent | N9020A | MRTSUE06106 | 1 year | 2018/04/25 |
| USB Wideband Power Sensor | Agilent | U2021XA | MRTSUE06030 | 1 year | 2017/12/06 |
| Temperature/Humidity Meter | Yuhuaze | HTC-2 | MRTSUE06184 | 1 year | 2017/12/22 |

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density*
- Spurious RF conducted emissions
- Conducted Band edge

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Test Site1

| Items | Extended Uncertainty |
|--|---|
| Conducted Disturbance at Mains Terminals | 150kHz to 30MHz, LISN, $\pm 2.73\text{dB}$ |
| Radiated Disturbance | 30MHz to 1GHz, $\pm 5.03\text{dB}$ (Horizontal) $\pm 5.11\text{dB}$ (Vertical) 1GHz to 18GHz, $\pm 5.15\text{dB}$ (Horizontal) $\pm 5.12\text{dB}$ (Vertical) 18GHz to 25GHz, $\pm 4.76\text{dB}$ |

Test Site2

AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{\text{c}}(y)$):

150kHz~30MHz: 3.46dB

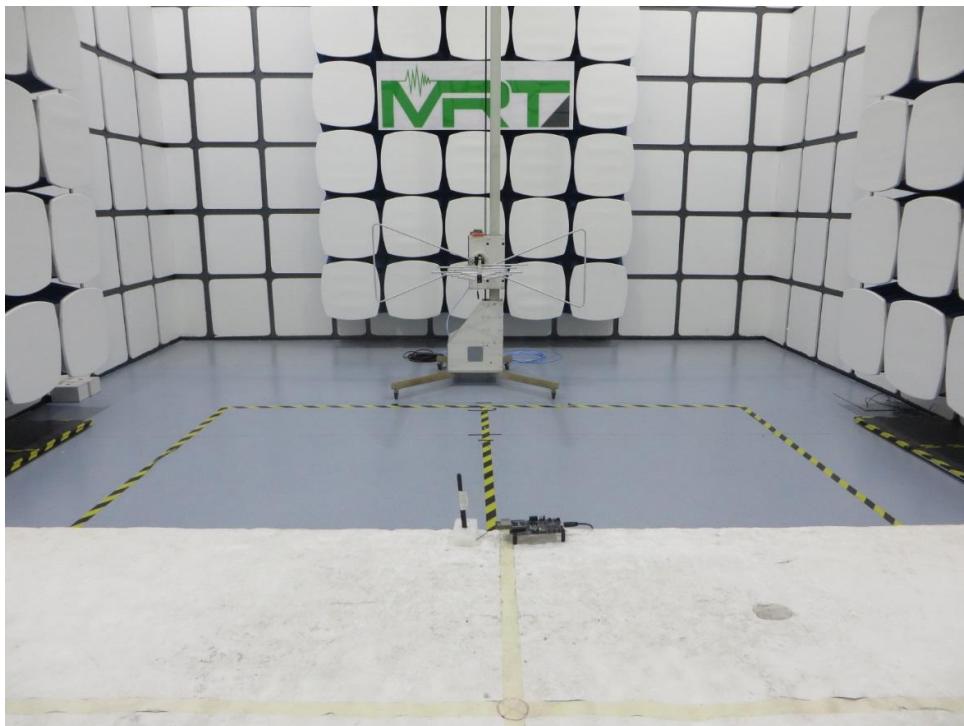
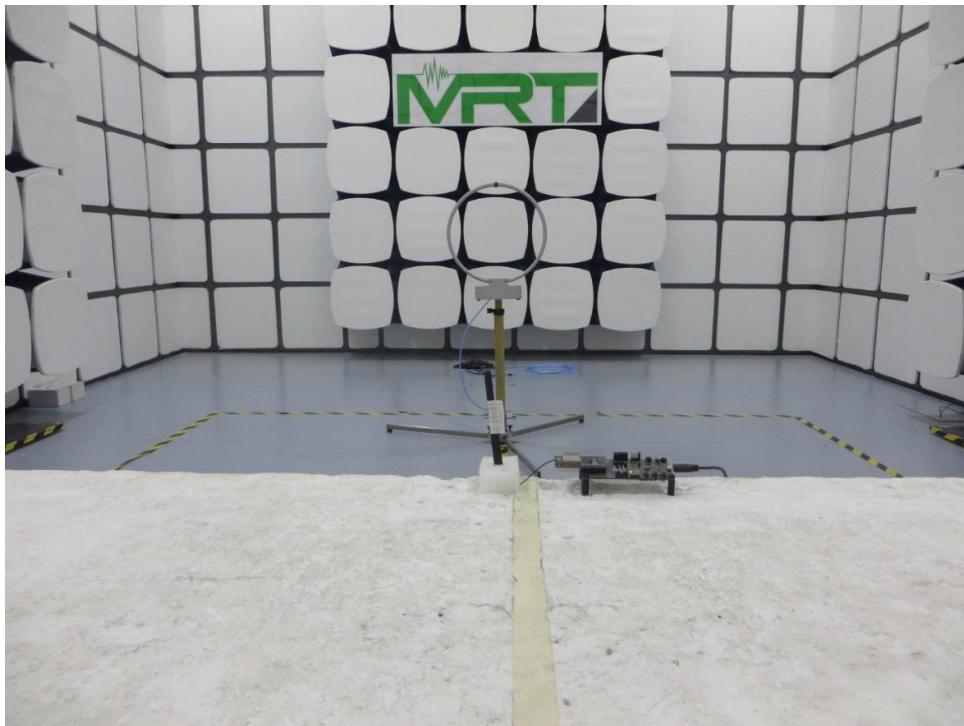
Radiated Emission Measurement – AC1

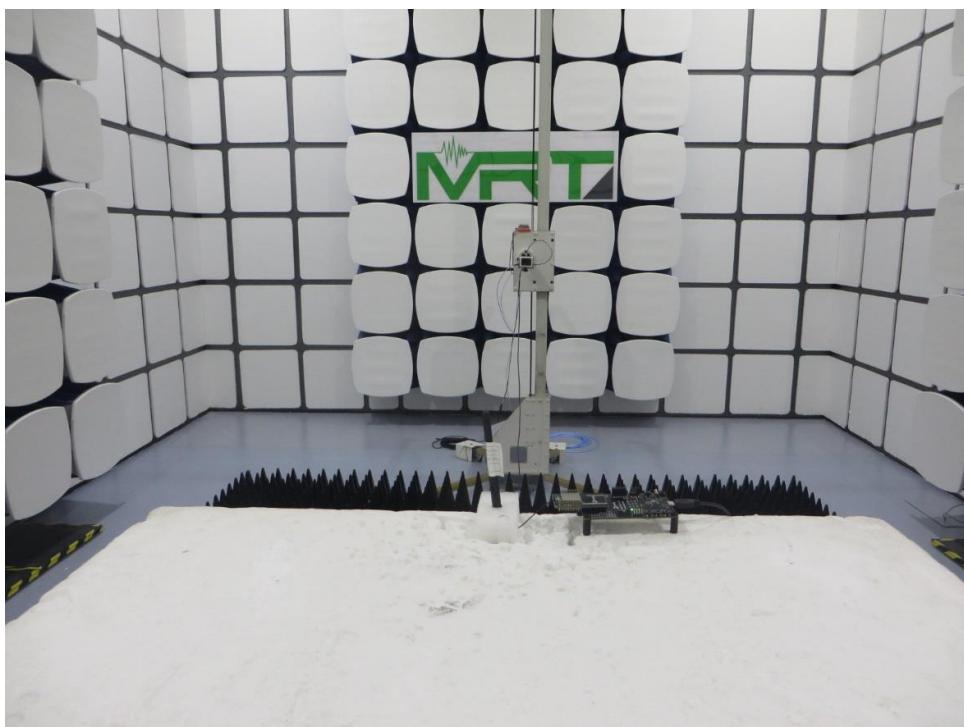
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_{\text{c}}(y)$):

9kHz ~ 1GHz: 4.18dB

1GHz ~ 25GHz: 4.76dB

12 Photographs of Test Set-ups





13 Photographs of EUT

Photo 1. General view of SZU06C1

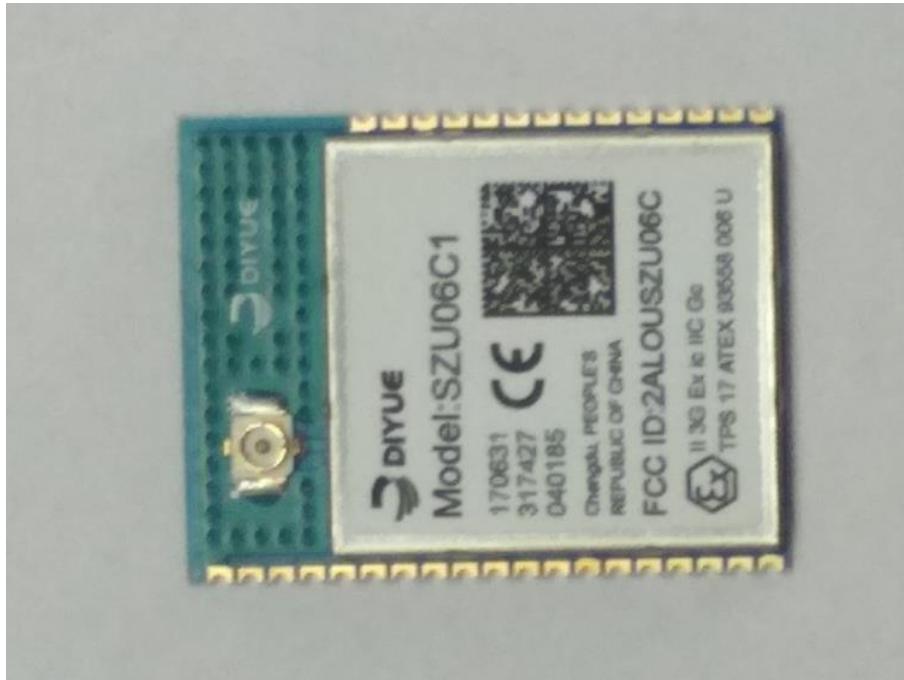


Photo 2. General view of SZU06C1 connect with Dipole Antenna

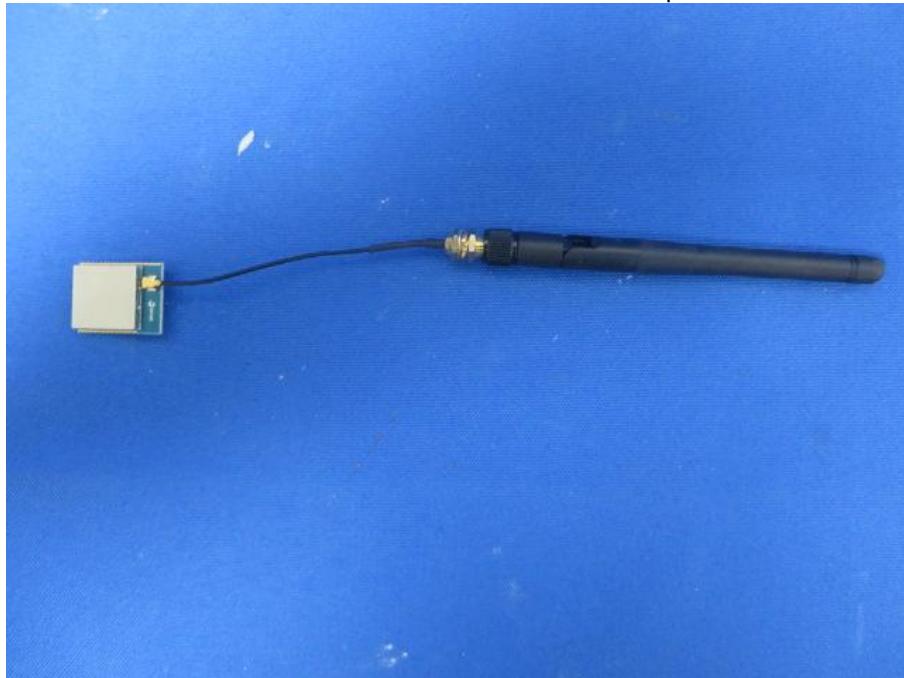


Photo 3. General view of SZU06C1

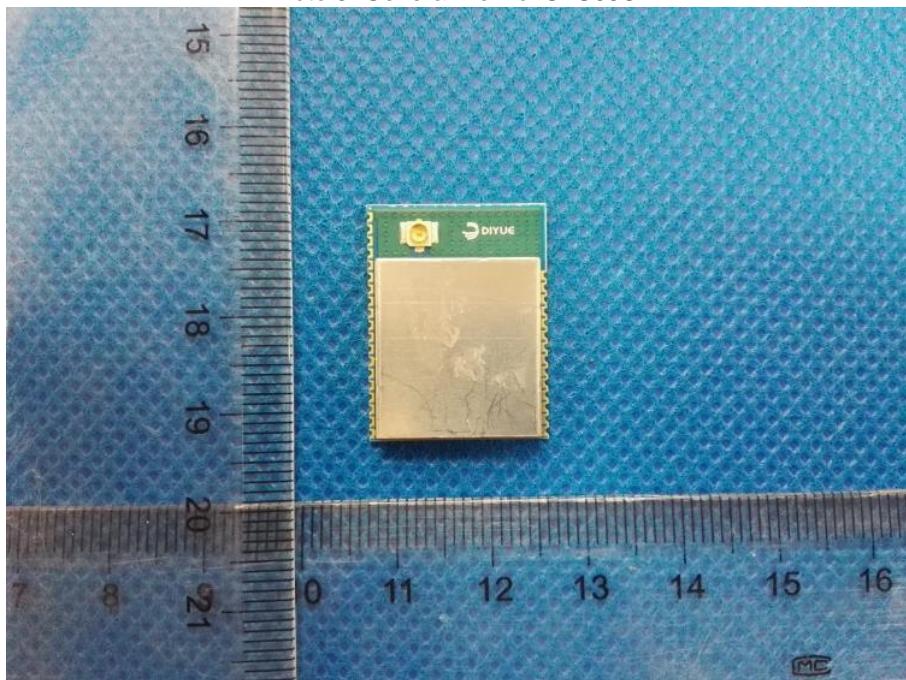


Photo 4. Internal view of SZU06C1

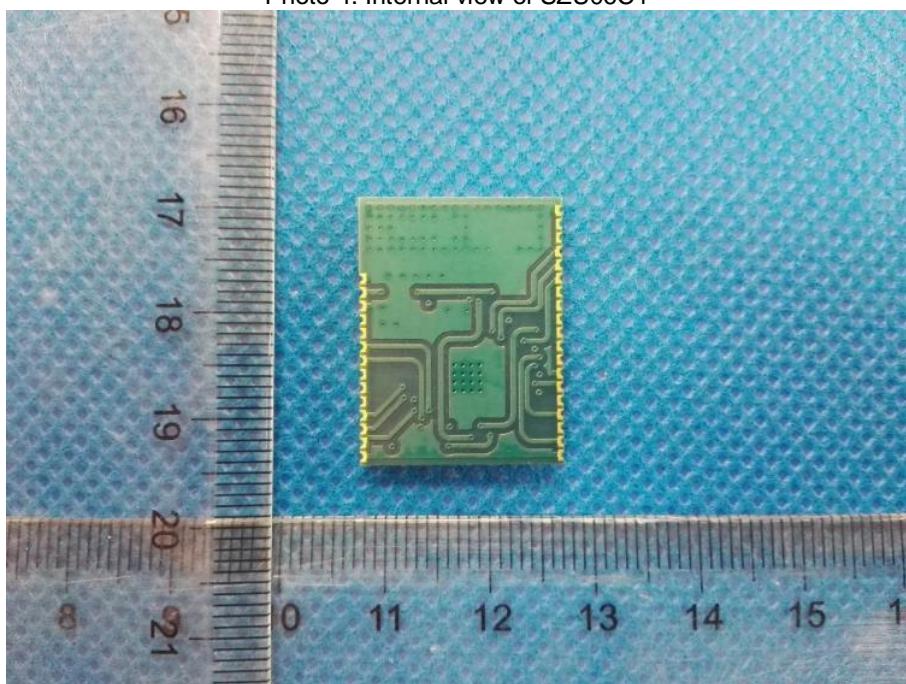


Photo 5 Internal view of SZU06C1

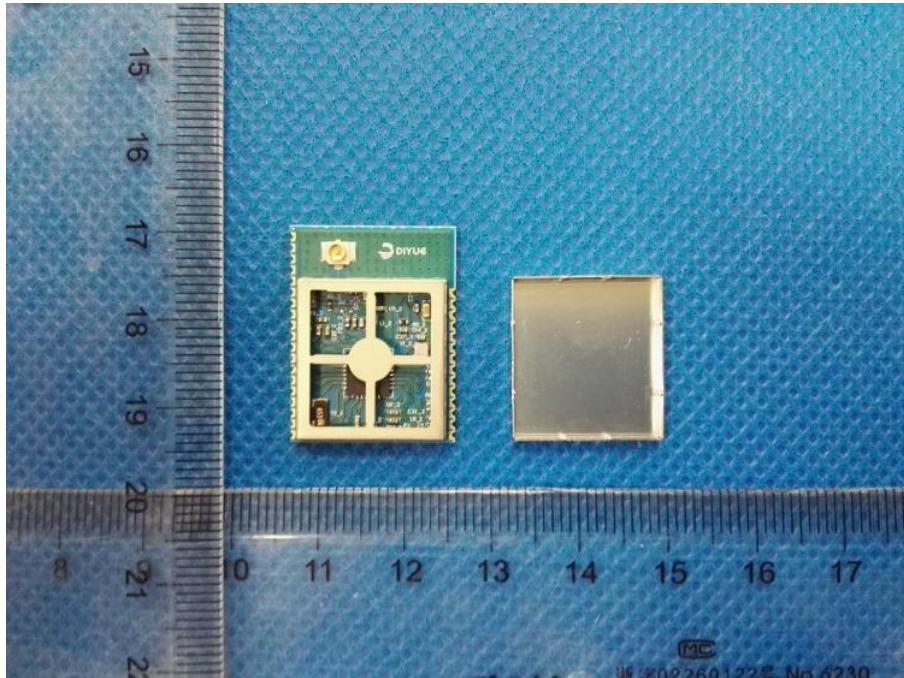


Photo 6. Internal view of SZU06C1

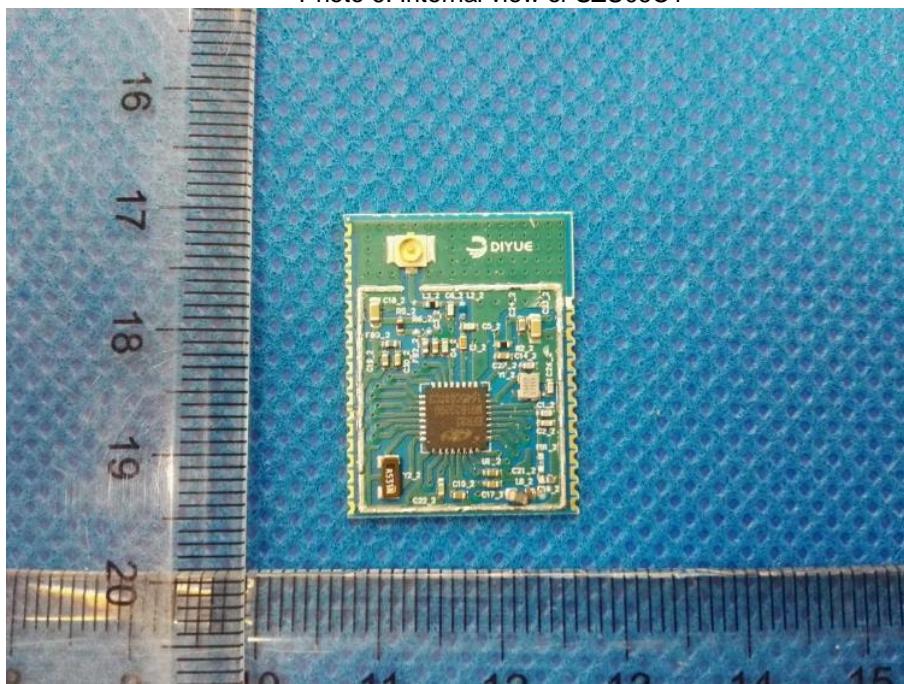




Photo 7. Internal view of SZU06C1 Dipole antenna W1010



Photo 8. General view of SZU06C2



Photo 9. General view of SZU06C2



Photo 10. General view of SZU06C2

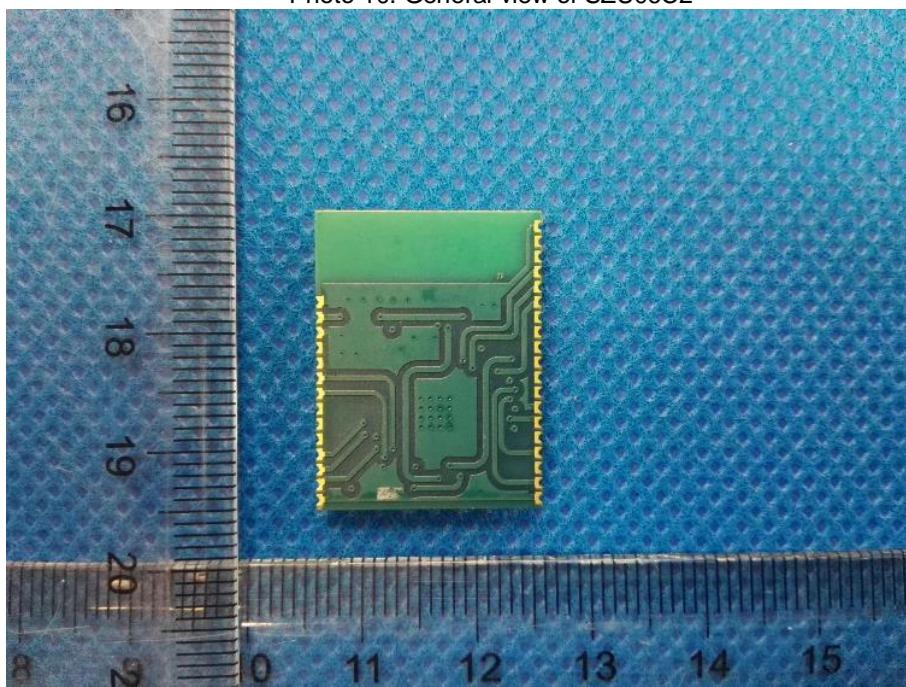


Photo 11. Internal view of SZU06C2

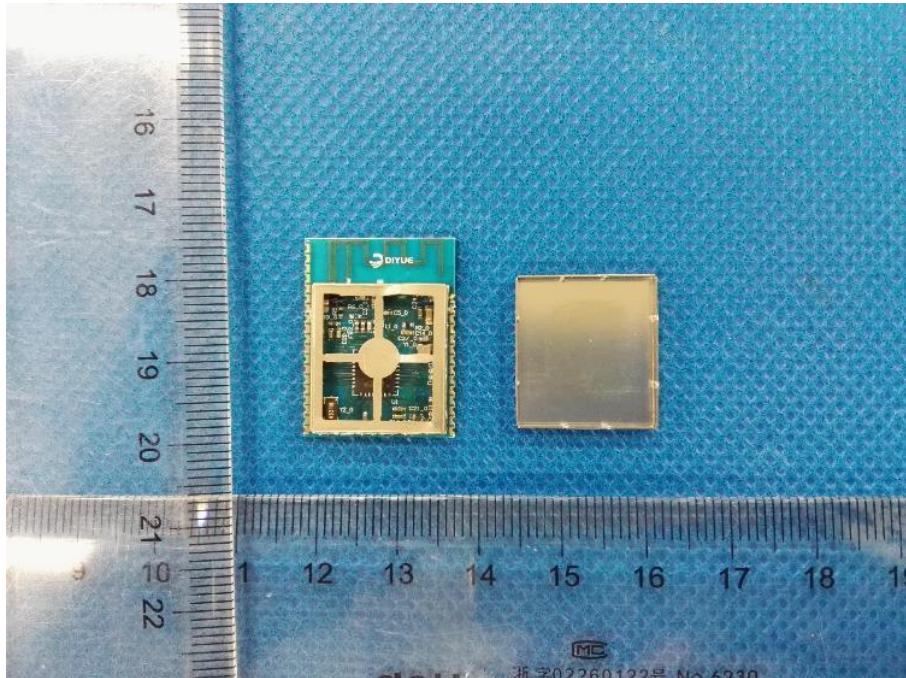


Photo 12. Internal view of SZU06C2

