

ETSI EN 300 220-2 V3.1.1 (2017-02) TEST REPORT

For

KIDdesigns Inc.

1299 Main Street, Rahway NJ 07065, U.S.A.

 $\label{eq:Tested Model: FR-V200} Tested Model: FR-V200 \\ Multiple Models: CA-V200CW, MS-V200, MS-V200MM, \\ PW-V200, SM-V200, ST-V200, SW-V200E7, TS-V200, M_1-V200M_2M_3M_4M_5M_6M_7M_8M_9M_{10} \\$

Report Type: Product Type:

Original Report V200 WALKIE TALKIES

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| Product | V200 WALKIE TALKIES |
|-----------------------|---|
| Tested Model | FR-V200 |
| Multiple Model | CA-V200CW, MS-V200, MS-V200MM, PW-V200, SM-V200, ST-V200, SW-V200E7, TS-V200, M ₁ -V200M ₂ M ₃ M ₄ M ₅ M ₆ M ₇ M ₈ M ₉ M ₁₀ |
| Frequency Range | 40.66-40.68 MHz |
| Transmit Power | -29.16dBm |
| Modulation Technique | chirp –based Spread-Spectrum |
| Antenna Specification | 1.2 dBi |
| Voltage Range | DC 9V |
| Date of Test | 2019-11-19 to 2019-11-27 |
| Sample serial number | 190815K49(Assigned by Shenzhen BACL) |
| Received date | 2019-08-15 |
| Sample/EUT Status | Good condition |

Notes: This series products model: CA-V200CW, MS-V200, MS-V200MM, PW-V200, SM-V200, ST-V200, SW-V200E7, TS-V200, M_1 -V200 M_2 M $_3$ M $_4$ M $_5$ M $_6$ M $_7$ M $_8$ M $_9$ M $_{10}$ and FR-V200 are identical schematics. Model FR-V200 was selected for fully testing, the detailed information can be referred to the declaration letter.

Objective

The test report is prepared on behalf of the *KIDdesigns Inc.* in accordance with ETSI EN 300 220-2 V3.1.1 (2017-02), short range devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: harmonised standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment

The objective is to determine the compliance of the EUT with ETSI EN 300 220-2 V3.1.1 (2017-02).

Test Methodology

All measurements contained in this report were conducted with ETSI EN 300 220-1 V3.1.1 (2017-02).

Measurement Uncertainty

| Parameter | Flab | Maximum allow uncertainty |
|---|----------|---------------------------|
| Radio frequency | ±0,5 ppm | ±0,5 ppm |
| RF power, conducted | ±0.73dB | ±1.5dB |
| Conducted spurious emission of transmitter, valid up to 6 GHz | ±1.6dB | ±3dB |
| Conducted emission of receivers | ±1.6dB | ±3dB |
| Below 1GHz emissions, radiated | ±4.75dB | ±6dB |
| Above 1GHz emissions, radiated | ±4.88dB | ±6dB |
| RF level uncertainty for a given BER | ±1.5dB | ±1.5 dB |
| Occupied BandWidth | ±5% | ±5% |
| Temperature | ±1 °C | ±2,5 °C |
| Humidity | ±1% | ±10% |

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode.

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessories.

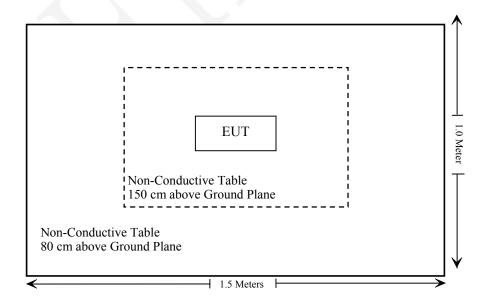
Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| / | / | / | 1 |

External I/O Cable

| Cable Description | Length (m) | From Port | То |
|-------------------|------------|-----------|----|
| / | / | / | / |

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

ETSI EN 300 220-2 V3.1.1 (2017-02)

| Rules | Description of Test | Result | Condition |
|---------|--|----------------|---|
| §4.2.1 | Operating frequency | Compliance | / |
| §4.2.2 | Unwanted emissions in the spurious domain | Compliance | / |
| §4.3.1 | Effective radiated power | Compliance | / |
| §4.3.2 | Maximum e.r.p. spectral density | Not Applicable | Applies to EUT using annex B bands I, L. Applies to EUT using DSSS or wideband techniques other than FHSS modulation, using annex C band X. |
| §4.3.3 | Duty cycle | Compliance | / |
| §4.3.4 | Occupied Bandwidth | Compliance | / |
| §4.3.5 | Tx Out of Band Emissions | Compliance | Applies to EUT with OCW > 25 kHz. |
| §4.3.6 | Transient Power | Compliance | 1 |
| §4.3.7 | Adjacent channel power | Not Applicable | Applies to EUT with OCW ≤ 25 kHz. |
| §4.3.8 | TX behaviour under Low Voltage Conditions | Compliance | Applies to battery powered EUT. |
| §4.3.9 | Adaptive Power Control | Not Applicable | Applies to EUT with adaptive power control using annex C band AA. |
| §4.3.10 | FHSS equipment | Not Applicable | Applies to FHSS EUT. |
| §4.3.11 | Short term behaviour | Not Applicable | Applies to EUT using annex C bands Y, Z, AA, AB, AC, AD. |
| §4.4.1 | RX sensitivity | Not Applicable | Applies to EUT with polite spectrum access. |
| §4.4.2 | Blocking | Compliance | / |
| §4.5.2 | Clear Channel Assessment threshold | Not Applicable | Applies to EUT with polite spectrum access. |
| §4.5.3 | Polite spectrum access timing parameters | Not Applicable | Applies to EUT with polite spectrum access. |
| §4.5.4 | Adaptive Frequency Agility | Not Applicable | Applies to EUT with AFA. |

TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|----------------------|---------------------------|-------------|---------------|---------------------|-------------------------|
| Rohde & Schwarz | Spectrum Analyzer | FSV40-N | 102259 | 2019-07-22 | 2020-07-21 |
| Rohde & Schwarz | EMI Test Receiver | ESR3 | 102455 | 2019-07-09 | 2020-07-08 |
| Sunol Sciences | Horn Antenna | DRH-118 | A052604 | 2017-12-22 | 2020-12-21 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-1 | 2017-12-22 | 2020-12-21 |
| Sonoma Instrument | Amplifier | 310N | 186238 | 2018-11-12 | 2019-11-12 |
| COM-POWER | Dipole Antenna | AD-100 | 41000 | NCR | NCR |
| A.H. System | Horn Antenna | SAS-200/571 | 135 | 2018-09-01 | 2021-08-31 |
| COM-POWER | Pre-amplifier | PA-122 | 181919 | 2018-11-12 | 2019-11-12 |
| Rohde & Schwarz | Spectrum Analyzer | FSU26 | 200120 | 2019-03-02 | 2020-03-01 |
| HP Agilent | RF Communication test set | 8920A | 3325UC0859 | 2019-07-09 | 2020-07-08 |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.2.1 – OPERATING FREQUENCY

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.1.1, the nominal operating frequency is the centre of a channel of width OCW.

Limit: The manufacturer may declare either one or more operating frequencies and operating channels. Operating channel(s) shall be be entirely within operational frequency bands allowed by annexes B, C or any NRI

The below information shall be recorded in the test report

| Value | Note |
|--|------------------------------|
| Operational Frequency band or bands | Declared by the manufacturer |
| Nominal Operating Frequency or Frequencies | Declared by the manufacturer |
| Operating Channel width(s) - OCW | Declared by the manufacturer |

Test Result

The operational frequency band or bands, nominal operating frequency or Frequencies and operating channel width(s) - OCW are declared by the manufacturer

Note: Compliance, which is declared by the manufacturer.

| Operating frequency (MHz) | Operating frequency band (MHz) | Operating channel width (kHz) |
|------------------------------|--------------------------------|-------------------------------|
| 40.68 | 40.66-40.70 | 40kHz |

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.2.2 – UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.9.1.

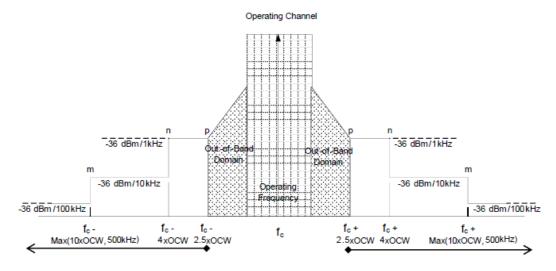


Figure 7: Spectrum Mask for Unwanted Emissions in the Spurious Domain with reference BW

Spurious emissions are unwanted emissions in the spurious domain at frequencies other than those of the Operating Channel and its Out Of Band Domain. The relevant spurious domain is shown in Figure 7.

Limit: The power of any unwanted emission in the spurious domain shall not exceed the values given in Table 19.

| Frequency State | 47 MHz to 74 MHz 87,5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 790 MHz | Other frequencies below 1 000 MHz | Frequencies above 1 000 MHz |
|------------------------|---|--------------------------------------|--------------------------------|
| TX mode | -54 dBm | -36 dBm | -30 dBm |
| RX and all other modes | -57 dBm | -57 dBm | -47 dBm |

Table 19: Spurious domain emission limits

Method of Measurement

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.9.3.

Test Data

Environmental Conditions

| Temperature: | 25 ℃ |
|--------------------|-----------|
| Relative Humidity: | 52 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Zero Yan and Alan He on 2019-11-20.

Test result: Compliance. Please refer to the following tables.

Radiated spurious emissions:

| | Receiver | Turn | Rx Aı | ntenna | S | ubstitute | d | Absolute | EN 30 | 00 220 |
|--------------------|----------------------|--------------------------|------------|-------------------|-------------------|-----------------------|------------------------------|-------------|-------------|-------------|
| Frequency (MHz) | Reading (dBµV) | Table Angle Degree | Height (m) | Polarity (H/V) | SG Level (dBm) | Cable Loss (dB) | Antenna Gain (dBd/dBi) | Level (dBm) | Limit (dBm) | Margin (dB) |
| | | | | Test r | node: Transn | nitting | | | | |
| 203.40 | 23.72 | 164 | 2.4 | Н | -76.3 | 0.57 | 0.0 | -76.87 | -36 | 40.87 |
| 203.40 | 37.13 | 166 | 1.7 | V | -62.2 | 0.57 | 0.0 | -62.77 | -36 | 26.77 |
| 244.08 | 36.19 | 359 | 2.2 | Н | -63.2 | 0.64 | 0.0 | -63.84 | -36 | 27.84 |
| 244.08 | 48.79 | 211 | 2.0 | V | -49.8 | 0.64 | 0.0 | -50.44 | -36 | 14.44 |
| 284.76 | 34.50 | 316 | 1.6 | Н | -67.0 | 0.71 | 0.0 | -67.71 | -36 | 31.71 |
| 284.76 | 45.44 | 142 | 1.2 | V | -54.4 | 0.71 | 0.0 | -55.11 | -36 | 19.11 |
| 1017.00 | 44.68 | 156 | 2.5 | Н | -64.5 | 1.50 | 5.60 | -60.40 | -30 | 30.40 |
| 1017.00 | 45.23 | 327 | 2.1 | V | -64.9 | 1.50 | 5.60 | -60.80 | -30 | 30.80 |
| 1057.68 | 45.10 | 292 | 1.2 | Н | -63.6 | 1.60 | 6.20 | -59.00 | -30 | 29.00 |
| 1057.68 | 45.40 | 251 | 1.0 | V | -64.2 | 1.60 | 6.20 | -59.60 | -30 | 29.60 |
| | | | | Test m | ode: Standby | y Mode | | | | |
| 946.39 | 36.13 | 262 | 1.1 | Н | -64.4 | 1.37 | 0.0 | -65.77 | -57 | 8.77 |
| 946.39 | 35.35 | 289 | 1.9 | V | -64.0 | 1.37 | 0.0 | -65.37 | -57 | 8.37 |
| 1536.14 | 42.31 | 24 | 1.3 | Н | -66.4 | 1.60 | 8.50 | -59.50 | -47 | 12.50 |
| 1536.14 | 41.69 | 53 | 2.3 | V | -67.3 | 1.60 | 8.50 | -60.40 | -47 | 13.40 |
| | Test mode: Receiving | | | | | | | | | |
| 946.39 | 36.13 | 262 | 1.1 | Н | -64.4 | 1.37 | 0.0 | -65.77 | -57 | 8.77 |
| 946.39 | 35.35 | 289 | 1.9 | V | -64.0 | 1.37 | 0.0 | -65.37 | -57 | 8.37 |
| 1536.14 | 42.31 | 24 | 1.3 | Н | -66.4 | 1.60 | 8.50 | -59.50 | -47 | 12.50 |
| 1536.14 | 41.69 | 53 | 2.3 | V | -67.3 | 1.60 | 8.50 | -60.40 | -47 | 13.40 |

Note:

- 1) Absolute Level = SG Level Cable loss + Antenna Gain
- 2) Margin = Limit- Absolute Level
 3) below 1G antenna gain unit is dBd, above 1G antenna gain unit is dBi

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.3.1 - EFFECTIVE RADIATED POWER

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.2.1:

The effective radiated power (e.r.p) is the power radiated in the direction of the maximum radiated power under specified conditions of measurements for any condition of modulation. For equipment with a permanent or temporary antenna connection it may be taken as the power delivered from that connector taking into account the antenna gain.

According to ETSI EN 300 220-2 V3.1.1 (2017-02) clause 4.3.1.2:

Limit: The effective radiated power shall not be greater than the value allowed in annexes B or C for the chosen operational frequency band(s).

Method of Measurement

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.2.2.1:

Effective Radiated Power (conducted measurement):

This method applies only to EUT with a permanent external antenna connector.

The transmitter shall be connected to a dummy load as described in clause 4.3.7 and the conducted power delivered shall be measured with a measurement receiver according to clause 4.3.10.

In the case of non-constant envelope modulation, a peak detector shall be used.

The maximum gain of the antenna to be used together with the equipment shall be declared by the manufacturer and this shall be recorded in the test report.

Perp, the radiated power (e.r.p.) limit applies to the maximum measured conducted power (Pconducted) value adjusted by the antenna gain (relative to a dipole) (Perp=Pconducted+antenna gain).

The information shown in Table 7 shall be recorded in the test report.

Table 7: Information Recorded in the Test Report for conducted Effective Radiated Power

| Value | Notes | | | | |
|--|--|--|--|--|--|
| Test environment | Normal operation or unmodulated carrier | | | | |
| Centre frequency | Nominal Operating Frequency | | | | |
| Measured Effective | maximum measured conducted power value adjusted by the | | | | |
| Radiated Power | antenna gain (relative to a dipole) | | | | |
| NOTE: In case of a de | edicated antenna the antenna gain (in dB, i.e. relative to a | | | | |
| dipole) is declared by the manufacturer. | | | | | |

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.2.2.2:

Effective radiated power (radiated measurement):

This measurement method applies to EUT other than those measured using clause 5.2.2.1.

A suitable test site shall be selected from those described in clause C.1 and the radiated power established using the procedures described in clause C.5.1 (or clause C.5.2) depending on the test site, followed by clause C.5.3.

In the case of non-constant envelope modulation, a peak detector shall be used.

The information shown in Table 8 shall be recorded in the test report.

Table 8: Information Recorded in the Test Report for Effective Radiated Power

| Value | Notes | | | | |
|--|--|--|--|--|--|
| Test environment | Normal operation or unmodulated carrier | | | | |
| Centre frequency | Iominal Operating Frequency | | | | |
| Measure of Effective | Larger value from horizontal and vertical measurement | | | | |
| Radiated Power | equivalent radiated power, plus equipment antenna gain | | | | |
| NOTE: In case of a removable antenna the antenna gain (in dB, i.e. relative to a | | | | | |
| dipole) is declared by the manufacturer. | | | | | |

Test Data

Environmental Conditions

| Temperature: | 25 °C |
|--------------------|-----------|
| Relative Humidity: | 52 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Zero Yan on 2019-11-19.

Test Mode: Transmitting

| Test Frequency (MHz) | | Result | | | | |
|----------------------------|--------|-----------|-----------|---------|----------|------------|
| 40.68 | Normal | L.V. L.T. | L.V. H.T. | H.V.L.T | H.V. H.T | Compliance |

Note:

L.V.: Low Voltage 7.5 V_{DC} L.T.: Low Temperature -20°C N.V.: Normal Voltage 9 V_{DC} N.T.: Normal Temperature +25°C H.V.: High Voltage 9.8 V_{DC} H.T.: High Temperature +55 ℃

Normal Condition Test Data as below:

| | Receiver | Turntable | Rx Aı | ntenna | S | ubstitute | d | Absolute | EN 30 | 00 220 |
|--------------------|----------------|-----------------|------------|-------------------|----------------|-----------------------|------------------------------|-------------|-------------|-----------------|
| Frequency (MHz) | Reading (dBµV) | Angle Degree | Height (m) | Polarity (H/V) | SG Level (dBm) | Cable Loss (dB) | Antenna Gain (dBd/dBi) | Level (dBm) | Limit (dBm) | Margin (dBm) |
| | 40.68 MHz | | | | | | | | | |
| 40.68 | 49.15 | 81 | 2.1 | Н | -48.6 | 0.56 | 0.0 | -49.16 | 10 | 59.16 |
| 40.68 | 67.77 | 320 | 2.0 | V | -28.6 | 0.56 | 0.0 | -29.16 | 10 | 39.16 |

- 1) Absolute Level = SG Level Cable loss + Antenna Gain
- 2) Margin = Limit- Absolute Level
 3) below 1G antenna gain unit is dBd,above 1G antenna gain unit is dBi

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.3.3 - DUTY CYCLE

Applicable Standard

According to ETSI EN 300 220-2 V3.1.1 (2017-02) clause 4.3.3:

Duty cycle applies to all transmitters except EUT with polite spectrum access (described in clause 4.5) where permitted in annex B, table B.1 or annex C, table C.1 or any NRI.

Limit: The Duty Cycle at the operating frequency shall not be greater than values in annex B or C for the chosen operational frequency band(s).

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.4.1:

Duty cycle is the ratio expressed as a percentage, of the cumulative duration of transmissions T_{on_cum} within an observation interval T_{obs} . $DC = \left(\frac{T_{on_cum}}{T_{obs}}\right)_{Fobs}$ on an observation bandwidth F_{obs} .

Unless otherwise specified, Tobs is 1 hour and the observation bandwidth Fobs is the operational frequency band. Each transmission consists of an RF emission, or sequence of RF emissions separated by intervals < T_{Dis} .

An equipment may operate on several bands simultaneously (i.e. multi transmissions), Duty Cycle limit of each individual band applies to each transmission within that band.

In case of a multicarrier modulation in a band, the duty cycle applies to the whole signal used for a transmission (e.g. OFDM).

It has to be noted that on some bands Duty Cycle value may depend on the presence of a primary radio service.

Equipment may be triggered manually, by internal timing or by external stimulus. Depending on the method of triggering the timing may be predictable or random.

Method of Measurement

An assessment of the overall Duty Cycle shall be made for a representative period of T_{obs} over the observation bandwidth Fobs. Unless otherwise specified, T_{obs} is 1 hour and the observation bandwidth F_{obs} is the operational frequency band.

The representative period shall be the most active one in normal use of the device. As a guide "Normal use" is considered as representing the behaviour of the device during transmission of 99 % of transmissions generated during its operational lifetime.

Procedures such as setup, commissioning and maintenance are not considered part of normal operation.

Where an acknowledgement is used, the additional transmitter on-time from a message responder shall be declared only once whether included in the message initiator Duty Cycle or in the message responder Duty Cycle.

NOTE: The intention of this rule is not to allow EUT to exceed the maximum duty cycle value.

Test Data

Environmental Conditions

| Temperature: | 25 ℃ |
|--------------------|-----------|
| Relative Humidity: | 52 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Leo Huang on 2019-11-22.

Test Mode: Transmitting (Normal use state)

Test result: Compliant.

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.3.4 - OCCUPIED BANDWIDTH

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.6:

The occupied bandwidth (OBW) is the Frequency Range in which 99 % of the total mean power of a given emission falls. The residual part of the total power being denoted as β , which, in cases of symmetrical spectra, splits up into β /2 on each side of the spectrum. Unless otherwise specified, β /2 is taken as 0,5 % as described in Figure 3.

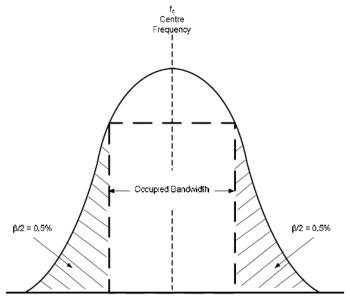


Figure 3: Signal occupied bandwidth

The maximum occupied bandwidth includes all associated side bands above the appropriate emissions level and the frequency error or drift under extreme test conditions.

Limit:

The Operating Channel shall be declared and shall reside entirely within the Operational Frequency Band.

The Maximum Occupied Bandwidth at 99 % shall reside entirely within the Operating Channel defined by F_{low} and F_{high} .

Method of measurement

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.6.3:

The spectrum analyser shall be configured as appropriate for the parameters shown in Table 12.

Table 12: Test Parameters for Max Occupied Bandwidth Measurement

| Setting | Value | Notes |
|------------------|------------------------|--|
| Contro fraguency | The nominal Operating | The highest or lowest Operating Frequency as declared by |
| Centre frequency | Frequency | the manufacturer |
| | 1 % to 3 % of OCW | |
| RBW | without being below | |
| | 100 Hz | |
| VBW | 3 x RBW | Nearest available analyser setting to 3 x RBW |
| Span | At least 2 x Operating | Span should be large enough to include all major |
| Spari | Channel width | components of the signal and its side bands |
| Detector Mode | RMS | |
| Trace | Max hold | |

If the equipment is capable of producing an unmodulated carrier and the test in clause 5.7 is performed, then the OBW measurements need only be performed under normal test conditions. Any required results for Maximum OBW under extreme conditions are obtained by addition and substraction of the upper and lower frequency error results to each bandwidth measurement obtained in this test.

Step 1: Operation of the EUT shall be started, on the highest operating frequency as declared by the manufacturer, with the appropriate test signal.

The signal attenuation shall be adjusted to ensure that the signal power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals on either side of the power envelope being included in the measurement.

Step 2: When the trace is completed the peak value of the trace shall be located and the analyser marker placed on this peak.

Step 3: The 99 % occupied bandwidth function of the spectrum analyser shall be used to measure the occupied bandwidth of the signal.

Test Data

Environmental Conditions

| Temperature: | 24 °C |
|--------------------|-----------|
| Relative Humidity: | 51 % |
| ATM Pressure: | 101.0 kPa |

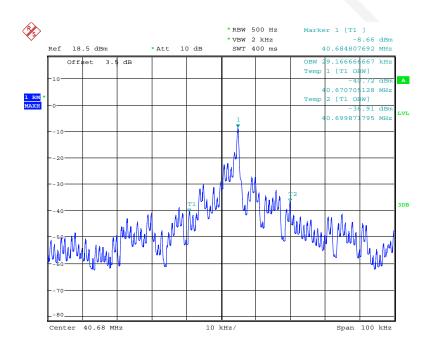
The testing was performed by Leo Huang on 2019-11-22.

Test Mode: Transmitting

| Test Frequency (MHz) | | Result | | | | |
|----------------------------|--------|-----------|-----------|---------|----------|------------|
| 40.68 | Normal | L.V. L.T. | L.V. H.T. | H.V.L.T | H.V. H.T | Compliance |

Normal Condition Test plots as below:

| Test Frequency (MHz) | Voltage Supply (V _{DC}) | Temperature (°C) | Occupied Bandwidth (kHz) | Frequency of Lower point (MHz) | Frequency of Upper point (MHz) | Limit |
|----------------------------|---|------------------|--------------------------------|---|---|-----------------------|
| 40.68 | 9 | 25 | 29.167 | 40.6707 | 40.6999 | Within 40.66 to 40.70 |



Date: 22.NOV.2019 09:42:36

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.3.5-TX OUT OF BAND EMISSIONS

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.8:

Two OOB domains are defined, one for OC (see Figure 5) and one for Operational Frequency band (see Figure 6). The spectrum masks for these two OOB domains may overlap.

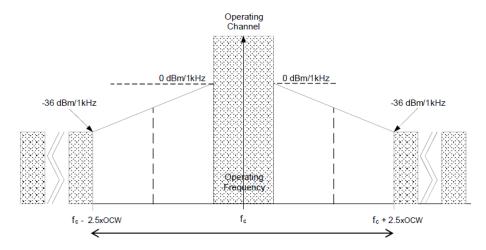


Figure 5: Out Of Band Domain for Operating Channel with reference BW

Unwanted emissions in the Out Of Band domain are those falling in the frequency range immediately below the lower, and above the upper, frequency of the Operating Channel. The OOB domain includes both frequencies outside the Operating Channel within the Operational Frequency Band and frequencies outside the Operational Frequency Band.

The relevant Out Of Band domain is shown in Figure 5 and applies within the Operational Frequency Band.

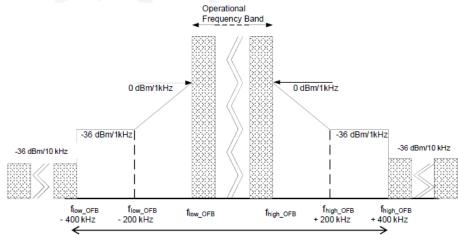


Figure 6: Out Of Band Domain for Operational Frequency Band with reference BW

Specific limits apply at frequencies immediately above and below the Operational Frequency Band as shown in Figure 6.

NOTE: f_{low_OFB} is the lower edge of the Operational Frequency Band. f_{high_OFB} is the upper edge of the Operational Frequency Band.

Limit: The EUT emissions level in OOB domains for the Operating Channel and the Operational Frequency Band shall be less or equal to Table 15 spectrum mask.

Table 15: Emission limits in the Out Of Band domains

| Domain | Frequency Range | RBW _{REF} | Max power limit |
|---|--|--------------------|-----------------|
| | f ≤ f _{low_OFB} - 400 kHz | 10 kHz | -36 dBm |
| | F_{low_OFB} - 400 kHz \leq f \leq f _{low_OFB} - 200 kHz | 1 kHz | -36 dBm |
| OOB limits applicable to | flow - 200 kHz ≤ f < f _{low_OFB} | 1 kHz | See Figure 6 |
| Operational Frequency | f = f _{low_OFB} | 1 kHz | 0 dBm |
| Band | f = f _{high_OFB} | 1 kHz | 0 dBm |
| (See Figure 6) | $F_{high_OFB} < f \le f_{high_OFB} + 200 \text{ kHz}$ | 1 kHz | See Figure 6 |
| | F_{high_OFB} + 200 kHz \leq f \leq f _{high_OFB} + 400 kHz | 1 kHz | -36 dBm |
| | F _{high_OFB} + 400 kHz ≤ f | 10 kHz | -36 dBm |
| | $f = f_c - 2.5 \times OCW$ | 1 kHz | -36 dBm |
| | $f_c - 2.5 \text{ x OCW} \le f \le f_c - 0.5 \text{ x OCW}$ | 1 kHz | See Figure 5 |
| OOB limits applicable to Operating Channel | $f = f_c - 0.5 \times OCW$ | 1 kHz | 0 dBm |
| (See Figure 5) | $f = f_c + 0.5 \times OCW$ | 1 kHz | 0 dBm |
| | $f_c + 0.5 \text{ x OCW} \le f \le f_c + 2.5 \text{ x OCW}$ | 1 kHz | See Figure 5 |
| | $f = f_c + 2.5 \text{ x OCW}$ | 1 kHz | -36 dBm |

NOTE: f is the measurement frequency.

f_c is the Operating Frequency.

 $F_{\text{low_OFB}}$ is the lower edge of the Operational Frequency Band.

F_{high_OFB} is the upper edge of the Operational Frequency Band.

OCW is the operating channel bandwidth.

Method of measurement

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.8.3.

Test Data

Environmental Conditions

| Temperature: | 24 ℃ |
|--------------------|-----------|
| Relative Humidity: | 51 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Leo Huang on 2019-11-22.

Test Mode: Transmitting

| Test Frequency (MHz) | Test Condition | | | Result | | |
|----------------------------|----------------|-----------|-----------|---------|----------|------------|
| 40.68 | Normal | L.V. L.T. | L.V. H.T. | N.V.L.T | N.V. H.T | Compliance |

Report No.: RSZ190815K49-22

Normal Condition Test Data as below:

Test with radiated measurement.

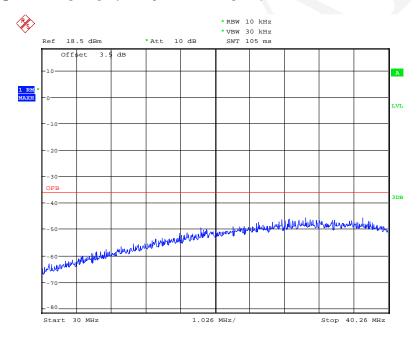
Please refer to the below plots:

OOB for OFB

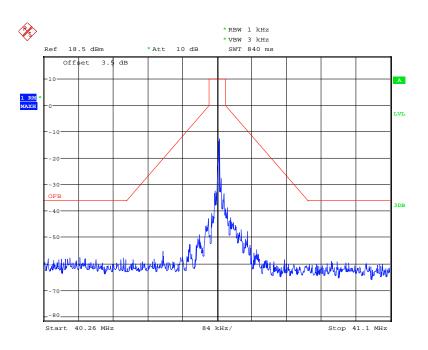
| Frequency Range | Limit | Test Result |
|---|----------------|----------------|
| $f \le f_{low_OFB}$ - 400 kHz | -36 dBm/10kHz | Pass |
| f_{low_OFB} - $400~kHz \le f \le f_{low_OFB}$ - $200~kHz$ | -36 dBm/1kHz | Pass |
| f_{low_OFB} - 200 kHz $\leq f \leq fl_{ow_OFB}$ | -36~0 dBm/1kHz | Pass |
| $f_{\text{high_OFB}} \leq f \leq f_{\text{high_OFB}} + 200 \text{ kHz}$ | -36~0 dBm/1kHz | Pass |
| $f_{high_OFB} + 200 \text{ kHz} \le f \le f_{high_OFB} + 400 \text{ kHz}$ | -36 dBm/1kHz | Pass |
| $F_{high_OFB} + 400 \; kHz \le f$ | -36 dBm/10kHz | Pass |

Note: f is the measurement frequency

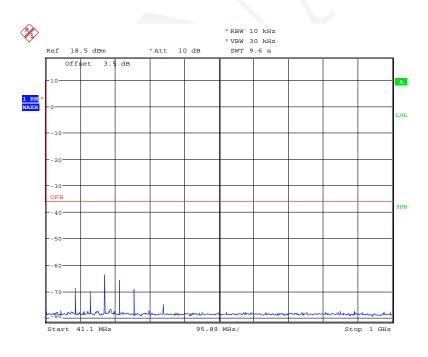
 f_{low_OFB} is the lower edge of the Operational Frequency Band f_{high_OFB} is the high edge of the Operational Frequency Band



Date: 22.NOV.2019 11:07:35



Date: 22.NOV.2019 11:05:35

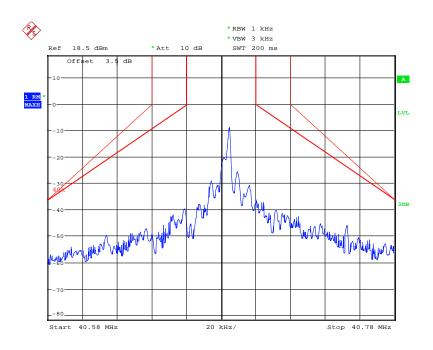


Date: 22.NOV.2019 11:06:34

OOB for OC

| Frequency Range | Limit | Test Result | |
|---|----------------|-------------|--|
| $f_c - 2.5 \times OCW \le f \le f_c - 0.5 \times OCW$ | -36~0 dBm/1kHz | Pass | |
| $f_c + 0.5 \times OCW \le f \le f_c + 2.5 \times OCW$ | 0~-36 dBm/1kHz | Pass | |

Note:f is the measurement frequency fc is the Operating Frequency OCW is the operating channel bandwidth



Date: 22.NOV.2019 10:53:07

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.3.6 - TRANSIENT POWER

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.10:

Transmitter transient power is power falling into frequencies other than the operating channel as a result of the transmitter being switched on and off.

Limit: The transient power shall not exceed the values given in Table 23.

Table 23: Transmitter Transient Power limits

| Absolute offset from centre frequency | RBW _{REF} | Peak power limit applicable at measurement points |
|--|--------------------|---|
| ≤ 400 kHz | 1 kHz | 0 dBm |
| > 400 kHz | 1 kHz | -27 dBm |

Method of measurement

The output of the EUT shall be connected to a spectrum analyser or equivalent measuring equipment.

The measurement shall be undertaken in zero span mode. The analyser's centre frequency shall be set to an offset from the operating centre frequency. These offset values and their corresponding RBW configurations are listed in Table 24.

Table 24: RBW for Transient Measurement

| Measurement points: offset from centre frequency | Analyser RBW | RBW _{REF} |
|--|---|--------------------|
| -0,5 x OCW - 3 kHz 0,5 x OCW + 3 kHz Not applicable for OCW < 25 kHz | 1 kHz | 1kHz |
| ±12,5 kHz or ±OCW whichever is the greater | Max (RBW pattern 1, 3, 10 kHz) ≤ Offset frequency/6 (see note) | 1 kHz |
| -0,5 x OCW - 400 kHz 0,5 x OCW + 400 kHz | 100 kHz | 1 kHz |
| -0,5 x OCW -1 200 kHz 0.5 x OCW + 1 200 kHz | 300 kHz | 1 kHz |

NOTE: Max (RBW pattern 1, 3, 10 kHz) means the maximum bandwidth that falls into the commonly implemented 1, 3, 10 kHz RBW filter bandwidth incremental pattern of spectrum analysers.

EXAMPLE: If OCW is 25 kHz then the RBW value corresponding to one OCW offset frequency is 3 kHz. The rest of the analyser settings are listed in Table 25, and if OCW is 250 kHz

then the RBW value corresponding to one OCW offset frequency is 30 kHz.

The used modulation shall be D-M3. The analyser shall be set to the settings of Table 25 and a measurement shall be started for each offset frequency. The EUT shall transmit at least five D-M3 test signal. The peak value shall be recorded and the measurement shall be repeated at each offset frequency mentioned in Table 24.

The recorded power values shall be converted to power values measured in RBWREF by the formula in clause 4.3.10.1.

Table 25: Parameters for Transient Measurement

| Spectrum Analyser Setting | Value | Notes | |
|---|------------------|--|--|
| VBW/RBW | 10 | At higher RBW values VBW may be clipped to its maximum value | |
| Sweep time | 500 ms | | |
| RBW filter | Gaussian | | |
| Trace Detector Function | RMS | | |
| Trace Mode | Max hold | | |
| Sweep points | 501 | | |
| Measurement mode | Continuous sweep | | |
| NOTE: The ratio between the number of sweep points and the sweep time shall be the same ratio as above if | | | |

NOTE: The ratio between the number of sweep points and the sweep time shall be the same ratio as above if different number of sweep points is used.

The used modulation shall be D-M3. The analyser shall be set to the settings of Table 25 and a measurement shall be started for each offset frequency. The EUT shall transmit at least five D-M3 test signal. The peak value shall be recorded and the measurement shall be repeated at each offset frequency mentioned in Table 24.

The recorded power values shall be converted to power values measured in RBWREF by the formula in clause 4.3.10.1.

When $RBW_{measured} > RBW_{REF}$ the result for broadband emissions should be normalized to the bandwidth Ratio according to the formula (2):

$$B = A + 10 \log \frac{RBWref}{RBW_{MEASURED}}$$
 (2)

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Where:

- A is the measured value at the wider measurement bandwidth RBW_{measured};
- B is the corresponding value at RBW_{REF}.

Test Data

Environmental Conditions

| Temperature: | 24 °C |
|--------------------|-----------|
| Relative Humidity: | 51 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Leo Huang on 2019-11-22 and 2019-11-27.

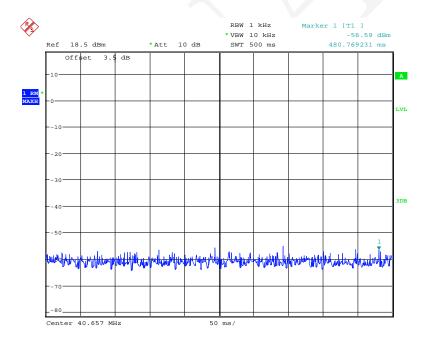
Test mode: Transmitting. Please refer to the below tables and plots

| Item | Test Frequency Offset From Centre Frequency | Absolute Level (dBm) | RBWref/ RBWmeas (kHz) | Correct Factor (dB) | Transient Power (dBm) | Limit (dBm) | Result |
|-----------|---|----------------------------|-----------------------------|---------------------------|-----------------------------|-------------|--------|
| Offset *1 | -0.5*OCW-3kHz | -56.59 | 1/1 | 0 | -56.59 | 0 | Pass |
| Offset *2 | -OCW | -50.02 | 1/5 | -7 | -57.02 | 0 | Pass |
| Offset *3 | -0.5*OCW-400kHz | -43.99 | 1/100 | -20 | -63.99 | -27 | Pass |
| Offset *4 | -0.5*OCW-1200kHz | -38.07 | 1/300 | -24.8 | -62.87 | -27 | Pass |
| Offset *5 | +0.5*OCW+3kHz | -56.91 | 1/1 | 0 | -56.91 | 0 | Pass |
| Offset *6 | +OCW | -48.03 | 1/5 | -7 | -55.03 | 0 | Pass |
| Offset *7 | +0.5*OCW+400kHz | -45.02 | 1/100 | -20 | -65.02 | -27 | Pass |
| Offset *8 | +0.5*OCW+1200kHz | -40.89 | 1/300 | -24.8 | -65.69 | -27 | Pass |

Note:

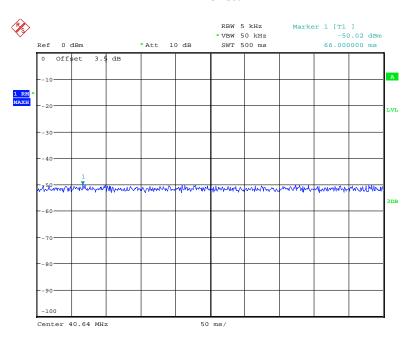
Correct factor=10*log(RBWref/RBWmeas)
Transient power=Absolute level+Correct factor

Offset *1



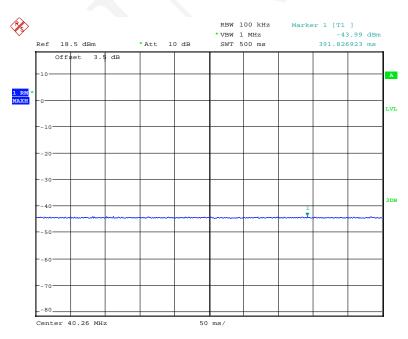
Date: 22.NOV.2019 10:26:12

Offset *2



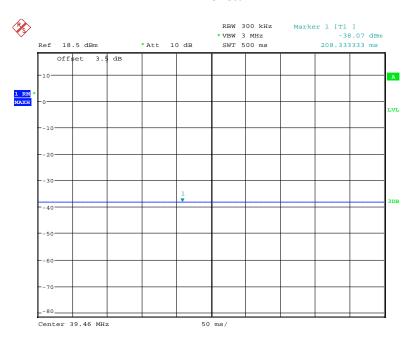
Date: 27.NOV.2019 17:06:20

Offset *3



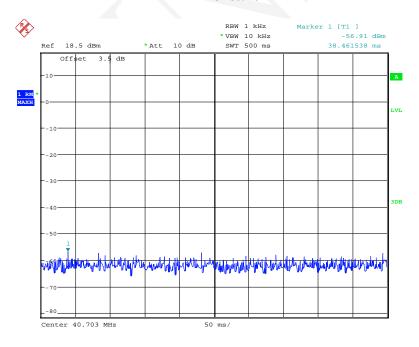
Date: 22.NOV.2019 10:25:13

Offset *4



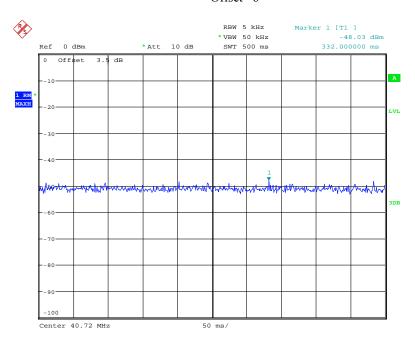
Date: 22.NOV.2019 10:23:43

Offset *5



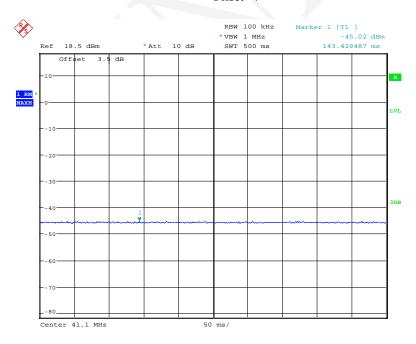
Date: 22.NOV.2019 10:26:50

Offset *6



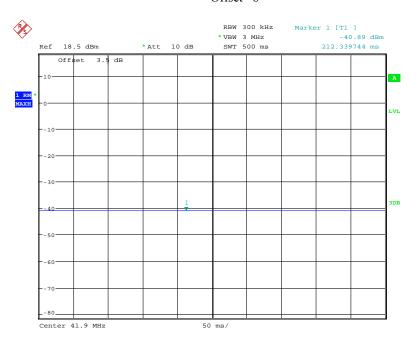
Date: 27.NOV.2019 17:07:57

Offset *7



Date: 22.NOV.2019 10:25:33

Offset *8



Date: 22.NOV.2019 10:24:45

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.3.8 – TX BEHAVIOUR LOW VOLTAGE CONDITIONS

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.12:

The TX behaviour under low voltage condition is the ability of the equipment to maintain its operating frequency and not produce emissions which exceed any relevant limit when the battery voltage falls below the lower extreme voltage level.

Limit:

The equipment shall either:

- a) remain in the Operating Channel OC without exceeding any applicable limits (e.g. Duty Cycle); or
- b) reduce its effective radiated power below the Spurious Emission limits without exceeding any applicable limits(e.g. Duty Cycle); or
- c) shut down, (ceasing function);
- as the voltage falls below the manufacturers declared operating voltage.

Method of measurement

Step 1:

Operation of the EUT shall be started, on Operating Frequency as declared by the manufacturer, with the appropriate test signal and with the EUT operating at nominal operating voltage. The centre frequency of the transmitted signal shall be measured and noted.

Step 2:

The operating voltage shall be reduced by appropriate steps until the voltage reaches zero. The centre frequency of the transmitted signal shall be measured and noted. Any abnormal behaviour shall be noted.

Test Data

Environmental Conditions

| Temperature: | 24 °C |
|--------------------|-----------|
| Relative Humidity: | 51 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Leo Huang on 2019-11-22.

| Nominal Frequency: 40.68 MHz | | | | | |
|---------------------------------|-------------------------------|--------------------------------------|--------------------------------------|---|--|
| Temperature & Humidity (°C & %) | Voltage (V _{DC}) | Frequency of Lower point (MHz) | Frequency of Upper point (MHz) | Result (Note) | |
| | 9.0 | 40.6736 | 40.6981 | Within Operating frequency band and without exceeding any applicable limits | |
| | 8.0 | 40.6689 | 40.6965 | Within Operating frequency band and without exceeding any applicable limits | |
| 25℃ & 50% | 7.5 | 40.6703 | 40.6986 | Within Operating frequency band and without exceeding any applicable limits | |
| | 7.0 | / | / | Shut down | |
| | 0 | / | / | Shut down | |

Note*: No any other abnormal behaviour was observed.

ETSI EN 300 220-2 V3.1.1 (2017-02) §4.4.2 – BLOCKING

Applicable Standard

According to ETSI EN 300 220-1 V3.1.1 (2017-02) clause 5.18.1.

Limit: The blocking level shall be better or equal to category 3 reference limits level defined in ETSI EN 300 220-1 [1], clause 5.18.2.

NOTE: After December 31st, 2018, the receiver category 3 will be withdrawn, therefore receiver category 2 will be the minimum applicable level.

Method of measurement

Signal generator A shall be set to an appropriate modulated test signal at the operating frequency of the EUT receiver.

Signal generator B shall be unmodulated.

Measurements shall be carried out at frequencies of the unwanted signal at approximately the frequency(ies) offset(s) defined in technical requirement avoiding those frequencies at which spurious responses occur. Additional measurement points may be requested by technical requirements clause.

If several operational frequency bands are used by the equipment, at least one blocking measurement by bands has to be performed.

Step 1: Signal generator B shall be powered off. Signal generator A shall be set to the minimum level which gives the wanted performance criterion of EUT or the reference level in Table 32, whichever is the higher The output level of generator A shall then be increased by 3 dB unless otherwise specified in technical requirement.

Step 2: Signal generator B is powered on and set to operate at the nominal operating frequency - offset frequency.

Signal generator B is then switched on and the signal amplitude is adjusted to the minimum level at which the wanted performance criterion is not achieved.

With signal generator B settings unchanged, the receiver shall be replaced with a suitable RF power measuring equipment. The power into the measuring equipment shall be measured and noted.

The blocking level is then the conducted power received from generator B at the EUT antenna connector. This can either be measured on the antenna connector for conducted test or be calculated for radiated test (see clause C.5.4).

The blocking level shall be higher or equal to the blocking power level requested in the technical requirement clause.

Step 3: The measurement in steps 1 to 3 shall be repeated with signal offsets at required frequencies.

Step 4: The information shown in Table 44 shall be recorded in the test report for each measured signal level and unwanted signal offset.

Table 44: Information Recorded in the Test Report

Report No.: RSZ190815K49-22

| Value | Notes |
|---------------------|--|
| Operating Frequency | Nominal centre frequency of the receiver |
| Signal generator A | Power level of signal generator A |
| Blocking level | Power level of signal generator B |

For equipment using CCA whatever is the receiver category, steps 1 to 4 shall be repeated with signal generator A level adjusted +13 dB higher than in the measurements in clause 5.18.6.4

Test Data

Environmental Conditions

| Temperature: | 25 °C | | | |
|--------------------|-----------|--|--|--|
| Relative Humidity: | 52 % | | | |
| ATM Pressure: | 101.0 kPa | | | |

The testing was performed by Leo Huang on 2019-11-22.

Test result: Compliance.

| Frequency (MHz) | Frequency offset (MHz) | Test Value (dBm) | Limit (dBm) | Result | |
|--------------------|------------------------|------------------|-------------|--------|--|
| 40.68 | -2 | -58.16 | -69 | Pass | |
| | +2 | -58.71 | -69 | Pass | |
| | -10 | -39.68 | -44 | Pass | |
| | +10 | -38.59 | -44 | Pass | |
| | -15 | -39.88 | -44 | Pass | |
| | +10 | -40.59 | -44 | Pass | |

Note: The equipment provider declared that the receiver category for the EUT is 2. f_{low} is the low edge of OC, f_{high} is the high edge of OC, f_c is the center frequency.

EXHIBIT A - PRODUCT CE LABELING

Proposed CE Label Format



Specification: The CE marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The CE marking shall also be affixed visibly and legibly to the packaging.

Proposed Location of Label on EUT



Report No.: RSZ190815K49-22

EXHIBIT B - EUT PHOTOGRAPHS















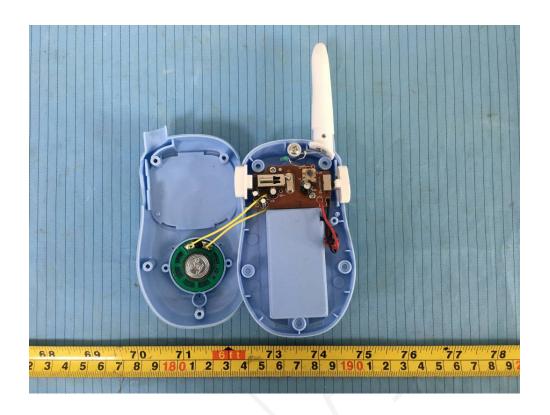


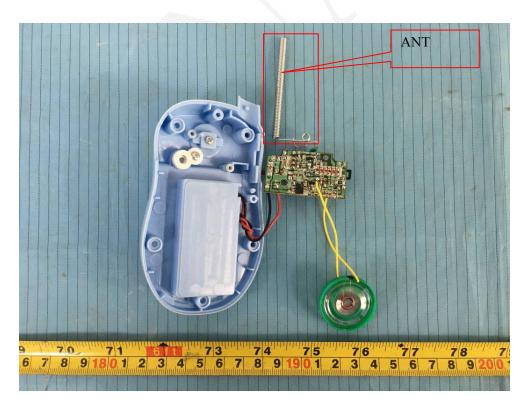


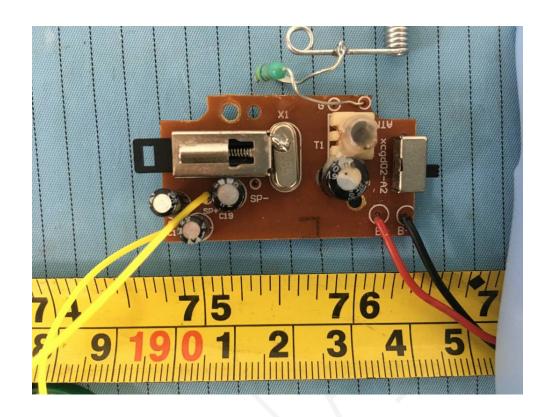












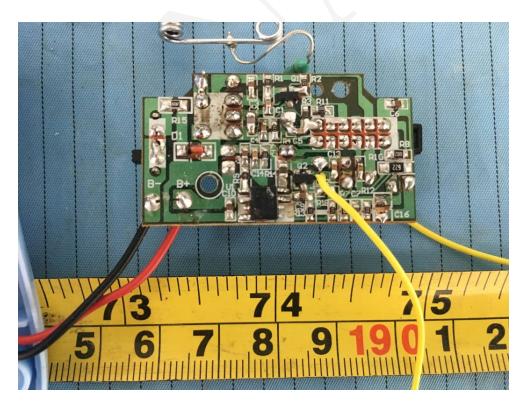


EXHIBIT C - TEST SETUP PHOTOGRAPHS

Radiated Spurious Emissions View (Below 1 GHz)



Radiated Spurious Emissions View (Above 1 GHz)



PRODUCT SIMILARITY DECLARATION LETTER

KIDdesigns Inc.

1299 Main Street, Rahway NJ 07065, U.S.A. Tel: 732-574-9000 Fax: 732-574-3797 Email: Mchinone@sditech.com

Product Similarity Declaration

Dec. 6, 2019

To Whom It May Concern,

We, KIDdesigns Inc., hereby declare that we have a product named as V200 WALKIE TALKIES (Model number: FR-V200) was tested by BACL, meanwhile, for our marketing purpose, we would like to list series models (CA-V200CW, MS-V200, MS-V200MM, PW-V200, SM-V200, ST-V200, SW-V200E7, TS-V200, M_I – V200 $M_2M_3M_4M_5M_6M_7M_8M_9M_{10}$) on reports and certificate, all the models are internal construction and electrically identical. Only different in colour and brands variation.

 $Model: M_1-V200\ M_2M_3M_4M_5M_6M_7M_8M_9M_{10}(M_1-M_{10}\,,\,please\,refer\,to\,following\,for\,details)$

Model No. Table

| Part of model # | M_1 | M ₂ | M ₃ | M_4 | M ₅ | M ₆ | M ₇ | M_g | M ₉ | M ₁₀ |
|-----------------------|---|---|----------------|---|--|---|--|---|---|--|
| Number of digit(s) | 2 | 2 | 1 | 1 | 1 to 2 | 1 | 1 to 2 | 1 | 2 | 1 |
| Description | 2 digits alphabets by "a" – "Z" for brand | 2 digits alphabets combinatio n by "a" – "Z" special character version Or blank | | "U" for Europe version Or blank | "E" for English content Or "F" for English & French Or "3" for 3 language version Or "11" for Europe version with 11 languages | chip with speech or sound effect Or "M" for sound chip with Music | -0"-9" for year version Or "V0" – "V9" for year version | "M" for Movie version brand Or blank | "AK" for Walmart exclusive Or "AP" for Apple exclusive Or "KS" for Kohl's exclusive Or "TG" for Target exclusive blank | inner carton required Or "z" for direct to consumer on-line packaging Or blank |

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Sincerely Yours,

KIDDESIGNS INC.

Signature:

Sammi Tsui

Title: Safety Engineer

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