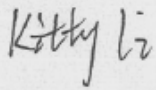
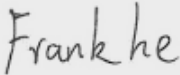
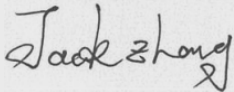




中国认可
国际互认
检测
TESTING
CNAS L5313

Test report No:
2090798R-RF-CE-P17V02

CE TEST REPORT

| | |
|---|---|
| Product Name | EZ-BT Module |
| Trademark |  |
| Model and /or type reference | CYBT-343026-01/CYBT-343151-02 /CYBT-343029-01/CYBT-143038-01 |
| Applicant's name / address | Infineon Technologies AG Am Campeon 1-15, 85579 Neubiberg, Germany |
| Test method requested, standard | ETSI EN 300328 V2.2.2 (2019-07) AS/NZS 4268: 2017 |
| Verdict Summary | IN COMPLIANCE |
| Documented by (name / position & signature) | Kitty Li/ Project Assistant  |
| Reviewed by (name / position & signature) | Frank He/ Technical Supervisor  |
| Approved by (name / position & signature) | Jack Zhang/ Supervisor  |
| Date of issue | 2020-10-16 |
| Report template No | Template_EN 300328-RF-V1.0 |

Note: The report is based on DEKRA report No.: 18B2048R-RF-CE-P17V02, only receiver blocking was tested for compliance of ETSI EN 300328 V2.2.2.

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

| | |
|----------------------|--|
| Test Location | No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China |
| Date(receive sample) | Sep. 22, 2020 |
| Date (start test) | Sep. 23, 2020 |
| Date (finish test) | Oct. 15, 2020 |

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

| | |
|-----------------------|---------------|
| Ambient temperature | 15 °C – 35 °C |
| Relative Humidity air | 30% - 60% |

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

| | |
|---|-----------------|
| Test case does not apply to test object | N/A |
| Test object does meet requirement | P (Pass) / PASS |
| Test object does not meet requirement | F (Fail) / FAIL |
| Not measured | N/M |

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

| | |
|-------|-------------------------------|
| EUT | : Equipment Under Test |
| QP | : Quasi-Peak |
| CAV | : CISPR Average |
| AV | : Average |
| CDN | : Coupling Decoupling Network |
| SAC | : Semi-Anechoic Chamber |
| OATS | : Open Area Test Site |
| BW | : Bandwidth |
| AM | : Amplitude Modulation |
| PM | : Pulse Modulation |
| HCP | : Horizontal Coupling Plane |
| VCP | : Vertical Coupling Plane |
| U_N | : Nominal voltage |
| T_x | : Transmitter |
| R_x | : Receiver |
| N/A | : Not Applicable |
| N/M | : Not Measured |

DOCUMENT HISTORY

| Report No. | Version | Description | Issued Date |
|-----------------------|---------|--------------------------|-------------|
| 2090798R-RF-CE-P17V02 | V1.0 | Initial issue of report. | 2020-10-16 |
| | | | |
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| | | | |

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with ETSI EN 300328 V2.2.2, AS/NZS 4268: 2017.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Antenna Informaion;
 - Chapter 1.3 Channel List.

USED EQUIPMENT

Receiver Blocking / TR8

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|--|---------------|-------------------------|----------------------------|------------|----------------|
| Splitter/Combiner (Qty: 2) | Mini-Circuits | ZAPD-50W 4.2-6.0 GHz | NN256400424 | N/A | N/A |
| 10dB Directional Coupler | Agilent | 87300C | MY44300299 | N/A | N/A |
| Adaptivity Test Unit | Agilent | N/A | 11607310008 | N/A | N/A |
| Rx PER Monitoring Unit | Agilent | N/A | 11706190075 | N/A | N/A |
| Wideband Radio Communication Tester | R & S | CMW 500 | 1201.0002K50- 158243-jb | 2020.08.15 | 2021.08.14 |
| PSG Analog Signal Generator | Agilent | E8257D | MY44321116 | 2020.08.15 | 2021.08.14 |
| ESG Vector Signal Generator | Agilent | E4438C | MY49070163 | 2020.08.25 | 2021.08.24 |
| Temperature/Humidity Meter | Zhichen | ZC1-2 | TR8-TH | 2020.09.02 | 2021.09.01 |


UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The Uncertainties is complice with standard required as below.

| Test item | Uncertainty |
|-----------------------------------|--------------------------------|
| Occupied Channel Bandwidth | $\pm 5 \%$ |
| RF output power, conducted | $\pm 1,5 \text{ dB}$ |
| Power Spectral Density, conducted | $\pm 3 \text{ dB}$ |
| Unwanted Emissions, conducted | $\pm 3 \text{ dB}$ |
| All emissions, radiated | $\pm 6 \text{ dB}$ |
| Temperature | $\pm 3 \text{ }^\circ\text{C}$ |
| Supply voltages | $\pm 3 \%$ |
| Time | $\pm 5 \%$ |

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

| | |
|----------------------------|--|
| Product Name | EZ-BT Module |
| Model No..... | CYBT-343026-01/CYBT-343151-02 /CYBT-343029-01/CYBT-143038-01 |
| Trademark..... |  |
| Manufacturer..... | Infineon Technologies AG |
| Manufacturer Address | Am Campeon 1-15, 85579 Neubiberg, Germany |
| Model Difference..... | Model CYBT-343029-01 is identical to Model CYBT-343026-01 and CYBT-143038-01 except for whether there is a certified Homekit chip or flash memory inside. Model CYBT-343151-02 shares the same PCB with Model CYBT-343029-01, CYBT-343026-01 and CYBT-143038-01, except that working temperature is changed from -40~85°C to -40~105°C. Part of device P/N has changed to meet the working temperature requirement. The RF character of this new module and original modules is the same. |

| | |
|-------------------------------|-----------------|
| Wireless specification | Bluetooth |
| Bluetooth Specification | V4.0 |
| Operating frequency range(s) | 2402 ~ 2480 MHz |
| Type of Modulation | GFSK |
| Channel Separation | 2 MHz |
| Data Rate..... | 1 Mbps |
| Number of channel | 40 |

| | | |
|--------------------------|-------------------------------------|--------------------------------|
| Rated power supply | Voltage and Frequency | |
| | <input type="checkbox"/> | AC: 220 – 240 V, 50/60 Hz |
| | <input type="checkbox"/> | AC: 100 – 240 V, 50/60 Hz |
| | <input checked="" type="checkbox"/> | 2.3 ~ 3.6 Vdc |
| | <input type="checkbox"/> | Battery: |
| Mounting position..... | <input type="checkbox"/> | Table top equipment |
| | <input type="checkbox"/> | Wall/Ceiling mounted equipment |
| | <input type="checkbox"/> | Floor standing equipment |
| | <input type="checkbox"/> | Hand-held equipment |
| | <input checked="" type="checkbox"/> | Other: Module |

1.2 Antenna Information

| | | | |
|-----------------------------------|-------------------------------------|---|---------------------------------------|
| Antenna model / type number | N/A | | |
| Antenna serial number..... | N/A | | |
| Antenna Delivery | <input checked="" type="checkbox"/> | 1TX + 1RX | |
| | <input type="checkbox"/> | 2TX + 2RX | |
| Antenna technology | <input checked="" type="checkbox"/> | SISO | |
| | <input type="checkbox"/> | MIMO | <input type="checkbox"/> CDD |
| | | | <input type="checkbox"/> Beam-forming |
| Antenna Type | <input type="checkbox"/> | External | <input type="checkbox"/> Dipole |
| | | | <input type="checkbox"/> Sectorized |
| | | | <input checked="" type="checkbox"/> |
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> PCB | |
| | <input type="checkbox"/> | <input type="checkbox"/> Metal Monopole Antenna | |
| | <input type="checkbox"/> | <input type="checkbox"/> Others..... | |
| Antenna Gain..... | -0.5 dBi | | |

1.3 Channel List

| Bluetooth Working Frequency of Each Channel: | | | | | | | |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 00 | 2402 MHz | 01 | 2404 MHz | 02 | 2406 MHz | 03 | 2408 MHz |
| 04 | 2410 MHz | 05 | 2412 MHz | 06 | 2414 MHz | 07 | 2416 MHz |
| 08 | 2418 MHz | 09 | 2420 MHz | 10 | 2422 MHz | 11 | 2424 MHz |
| 12 | 2426 MHz | 13 | 2428 MHz | 14 | 2430 MHz | 15 | 2432 MHz |
| 16 | 2434 MHz | 17 | 2436 MHz | 18 | 2438 MHz | 19 | 2440 MHz |
| 20 | 2442 MHz | 21 | 2444 MHz | 22 | 2446 MHz | 23 | 2448 MHz |
| 24 | 2450 MHz | 25 | 2452 MHz | 26 | 2454 MHz | 27 | 2456 MHz |
| 28 | 2458 MHz | 29 | 2460 MHz | 30 | 2462 MHz | 31 | 2464 MHz |
| 32 | 2466 MHz | 33 | 2468 MHz | 34 | 2470 MHz | 35 | 2472 MHz |
| 36 | 2474 MHz | 37 | 2476 MHz | 38 | 2478 MHz | 39 | 2480 MHz |

Note: The general description of the Item(s), antenna information and channel list in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

| | |
|-----------|--------------------------|
| Test Mode | Mode 1: Normal operation |
|-----------|--------------------------|

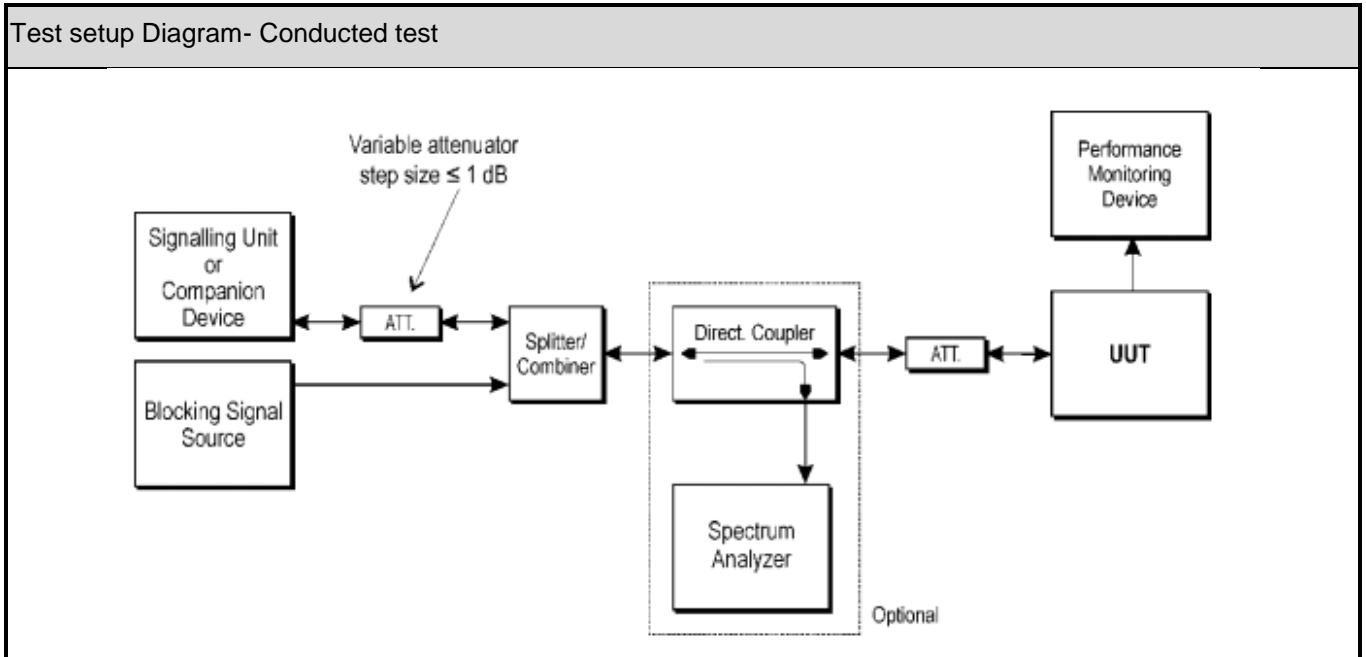
2.2 Accessories Information

| Accessories Information | Brand/model name | Cable | | |
|-------------------------|------------------|-----------------------------|-------------------------------------|-------------------------------------|
| | | Length used during test [m] | Attached during test | Shielded |
| USB – serial port | N/A | 0.5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

2.3 Support / Auxiliary equipment / unit / software for the EUT

| Auxiliary equipment | Type / Version | Manufacturer | Supplied by |
|---------------------|----------------|--------------|-------------|
| N/A | N/A | N/A | N/A |
| Software | Type / Version | Manufacturer | Supplied by |
| N/A | N/A | N/A | N/A |

2.4 Test Configuration / Block diagram used for tests



2.5 Testing process

| | |
|---|--|
| 1 | Setup the EUT as shown in Section 2.4. |
| 2 | Connect the EUT with CMW 500. |
| 3 | Verify that the EUT works properly. |

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

| Standard | Year | Description |
|-----------------------|------|--|
| ETSI EN 300328 V2.2.2 | 2019 | Wideband transmission systems;Data transmission equipment operating in the 2,4 GHz band;Harmonised Standard for access to radio spectrum |
| -- | -- | -- |
| -- | -- | -- |
| -- | -- | -- |

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

No deviation

3.3 Overview of results

| Test Item – ETSI EN 300328 V2.2.2 | | | | | | | |
|-----------------------------------|----------------|----------|----------|--------------|----------|---------|--------|
| Performed Test Item | Test Procedure | Adaptive | | Non-Adaptive | | Verdict | Remark |
| | | (≥10dBm) | (<10dBm) | (≥10dBm) | (<10dBm) | | |
| Receiver Blocking | Claus 5.4.11 | N/A | Yes | N/A | N/A | PASS | |

4 TEST RESULTS

| | |
|------------------------------|----------------------|
| 4.1 Receiver Blocking | VERDICT: PASS |
|------------------------------|----------------------|

| 4.1.1 Limit | | | |
|--|---------------------------------|---|-------------------------|
| Standard | ETSI EN 300328 V2.2.2 | | |
| <input type="checkbox"/> | Receiver Category 1 | | |
| Wanted signal meanpower from companion device (dBm) (see notes 1 and 4) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 4) | Type of blocking signal |
| (-133 dBm+10×log ₁₀ (OCBW)) or -68 dBm whichever is less (see notes 2) | 2 380 | -34 | CW |
| | 2 504 | | |
| (-139 dBm+10×log ₁₀ (OCBW)) or -74 dBm whichever is less (see notes 3) | 2 300 | | |
| | 2 330 | | |
| | 2 360 | | |
| | 2 524 | | |
| | 2 584 | | |
| 2 674 | | | |
| NOTE 1: OCBW is in Hz. | | | |
| NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P _{min} + 26 dB where P _{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. | | | |
| NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P _{min} + 20 dB where P _{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. | | | |
| NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2. | | | |
| <input checked="" type="checkbox"/> | Receiver Category 2 | | |
| Wanted signal meanpower from companion device (dBm) (see notes 1 and 3) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 3) | Type of blocking signal |
| (-139 dBm+10×log ₁₀ (OCBW)+10dB) or (-74 dBm +10dB)whichever is less (see notes 2) | 2 380 | -34 | CW |
| | 2 504 | | |
| | 2 300 | | |
| | 2 584 | | |
| | 2 584 | | |

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min} + 26$ dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2

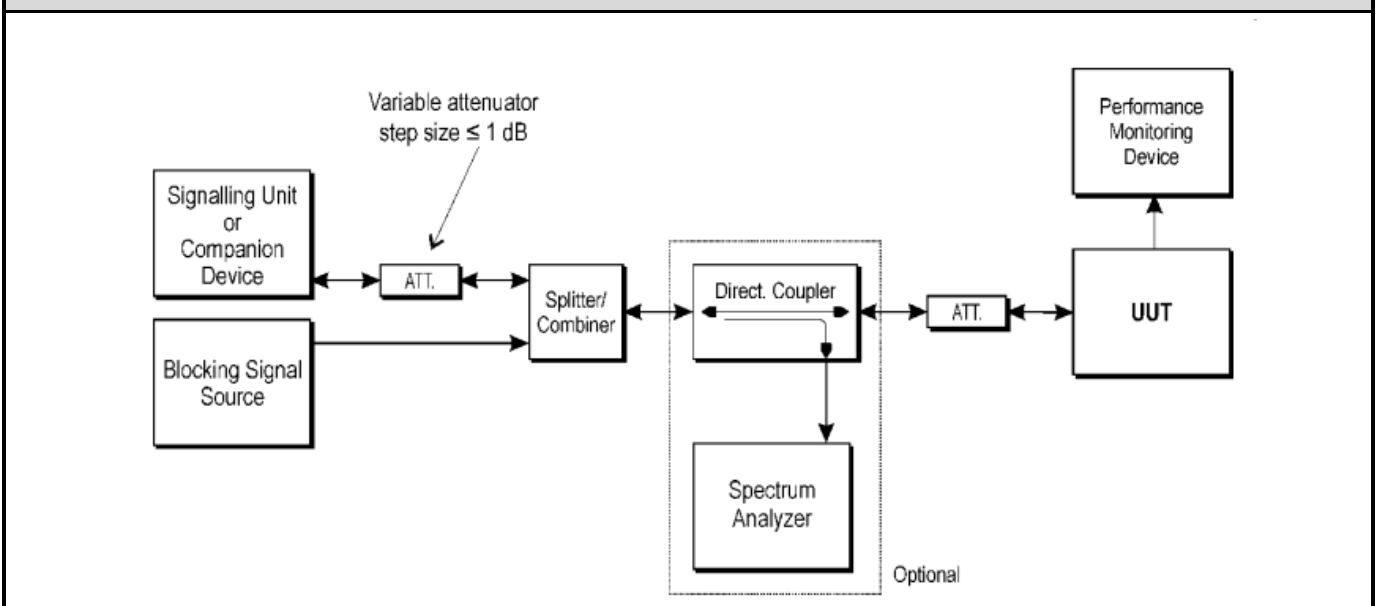
| Receiver Category 3 | | | |
|---|----------------------------------|---|-------------------------|
| Wanted signal meanpower from companion device (dBm) (see notes 1 and 3) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 3) | Type of blocking signal |
| $(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 20 \text{ dB})$ or $(-74 \text{ dBm} + 20 \text{ dB})$ whichever is less (see notes 2) | 2 380 2 504 2 300 2 584 | -34 | CW |

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min} + 26$ dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2

4.1.2 Test Setup



| 4.1.3 Procedure | | | |
|---|------------|-------------------|--|
| References Rule | Chapter | Description | |
| <input checked="" type="checkbox"/> ETSI EN 300328 V2.2.2 | 5.4.11.2.1 | Receiver Blocking | |
| The different steps below define the procedure to verify the efficiency of the LBT based adaptive mechanism of equipment using wide band modulations other than FHSS. This method can be applied on Load Based Equipment and Frame Based Equipment. | | | |
| Step 1 | | | |
| For non-FHSS equipment, the UUT shall be set to the lowest operating channel on which the blocking test has to be performed (see clause 5.4.11.1). | | | |
| Step 2 | | | |
| The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment. | | | |
| Step 3 | | | |
| <p>1, With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6.</p> <p>2, Unless the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the level of the wanted signal shall be set to the value provided in the table corresponding to the receiver category and type of equipment. The test procedure defined in clause 5.4.2, and more in particular clause 5.4.2.2.1.2, can be used to measure the (conducted) level of the wanted signal however no correction shall be made for antenna gain of the companion device (step 6 in clause 5.4.2.2.1.2 shall be ignored). This level may be measured directly at the output of the companion device and a correction is made for the coupling loss into the UUT. The actual level for the wanted signal shall be recorded in the test report.</p> <p>2, When the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the attenuation of the variable attenuator shall be increased in 1 dB steps to a value at which the minimum performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still met. The resulting level for the wanted signal at the input of the UUT is Pmin. This signal level (Pmin) is increased by the value provided in note 2 of the applicable table corresponding to the receiver category and type of equipment.</p> | | | |
| Step 4 | | | |
| <p>1, The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment.</p> <p>2, If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 are met then proceed to step 6.</p> | | | |
| Step 5 | | | |
| <p>1, If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is not met, step 3 and step 4 shall be repeated after that the frequency of the blocking signal set in step 2 has been increased with a value equal to the Occupied Channel Bandwidth except:</p> <ul style="list-style-type: none"> - For the blocking frequency 2 380 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be increased by 3 dB. - For the blocking frequency 2 503,5 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be decreased by 3 dB. <p>2, If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still not met, step 3 and step 4 shall be repeated after that the frequency of the blocking signal set in step 2 has been decreased with a value equal to the Occupied Channel Bandwidth except:</p> <ul style="list-style-type: none"> - For the blocking frequency 2 380 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be decreased by 3 dB. - For the blocking frequency 2 503,5 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this | | | |

| |
|--|
| frequency offset is more than 7 MHz, the level of the wanted signal shall be increased by 3 dB. |
| 3, If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still not met, the UUT fails to comply with the Receiver Blocking requirement and step 6 and step 7 are no longer required. |
| 4, It shall be recorded in the test report whether the shift of blocking frequencies as described in the present step was used. |
| Step 6 |
| Repeat step 4 and step 5 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment. |
| Step 7 |
| For non-FHSS equipment, repeat step 2 to step 6 with the UUT operating at the highest operating channel on which the blocking test has to be performed (see clause 5.4.11.1). |
| Step 8 |
| It shall be assessed and recorded in the test report whether the UUT complies with the Receiver Blocking requirement. |

| 4.1.4 Test Data | | | | | | |
|-----------------|-----------------|---------------------------|---------------------------------|--|-----------------------|---------------|
| Test Mode | Frequency (MHz) | Wanted signal power (dBm) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 1) | PER Measure Value (%) | PER Limit (%) |
| Mode 1 | 2402 | -68.7 | 2 380 | -34 | 0.3 | ≤10 |
| | | | 2 504 | -34 | 0.3 | ≤10 |
| | | | 2 300 | -34 | 0.2 | ≤10 |
| | | | 2 584 | -34 | 0.5 | ≤10 |
| | 2480 | -68.7 | 2 380 | -34 | 0.1 | ≤10 |
| | | | 2 504 | -34 | 0 | ≤10 |
| | | | 2 300 | -34 | 0 | ≤10 |
| | | | 2 584 | -34 | 0.1 | ≤10 |

Note 1: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.

5 SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

_____ The End _____