

RF TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the RED directive 2014/53/EU.

| | Applicant | : | SHENZHEN FENDA TECHNOLOGY CO., LTD. | |
|---|---|-----|---|--|
| | Address | : | Fenda Hi-Tech Park, Zhoushi Road, Shiyan Town, Baoan District, Shenzhen City, Guangdong, China | |
| | Manufacturer/Factory | : | SHENZHEN FENDA TECHNOLOGY CO., LTD. | |
| | Address | : | Fenda Hi-Tech Park, Zhoushi Road, Shiyan Town, Baoan District, Shenzhen City, Guangdong, China | |
| | E.U.T. | : | Computer Multimedia Speaker | |
| and the second se | Brand Name | : | F&D | |
| | Model No. | : | T-70X, T-77X, T-70BT, T-80X, T-68X, T-60X Plus (For model difference refer to section 1) | |
| | Measurement Standard | : | ETSI EN 300328 V2.1.1: 2016 | |
| | Date of Receiver | : | May 08, 2019; November 20, 2019 | |
| | Date of Test | : | May 09, 2019 to July 07, 2019 | |
| | Date of Report | : | December 05, 2019 | |
| | This Test Report is Issued Under the Authority of : | | | |
| | Prepared by Approved & Authorized Signer | | | |
| A Contraction of the second | | | | |
| | Alina Guo / Engineer Iori Fan, Authorized Signatory | | | |
| | This test report is for the cus | tor | ner shown above and their specific product only. This report applies to above tested | |

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Revision History of This Test Report

| Report Number | Description | Issued Date |
|----------------|---|-------------|
| NTC1905055EV00 | Initial Issue | 2019-07-10 |
| NTC1905055EV01 | Updated the electrolytic capacitor voltage from 35V change 50V at PCB output circuit. | 2019-12-05 |
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1. GENERAL INFORMATION

| E.U.T. | : | Computer Multimedia Speaker |
|---------------------------------|---|--|
| Main Model Name | : | T-70X |
| Additional Model name | : | T-77X, T-70BT, T-80X, T-68X, T-60X Plus |
| Brand Name | : | F&D |
| Rating | : | AC 100-240V 50/60Hz, 1A |
| Adapter | : | N/A |
| Test Voltage | : | AC 230V 50Hz |
| Cable | : | Audio Line: 1 to 1: 1.54m unshielded 1 to 2: 1.54m unshielded |
| | | Speaker Line: 2.94m unshielded AC Mains: 1.50m unshielded |
| Hardware version | : | V1.0 |
| Software version | : | V1.0 |
| Operating Temperature Range | : | 0°C to 35°C (Declaration by manufacturer) |
| Description of model difference | : | Those models have the same circuit schematic, construction, PCB Layout and critical components. The difference is model number only due to trading purpose. |
| Note | : | According to the model difference, all tests were performed on model T-70X. |
| Remark | : | This report was an additional report based on report NTC1905055EV00. Compared with original report, this report has updated the electrolytic capacitor voltage from 35V change 50V at PCB output circuit. According to the changes, no affect the tests result and all items test data were continued to be referenced. Details refer to the report. |



| Technical Specification: | | | |
|--------------------------|---|-----------------------------------|--|
| ltem | : | Description | |
| BT Version | : | 4.2 | |
| Frequency | : | 2402-2480MHz | |
| Modulation | : | GFSK, π/4-DQPSK, 8DPSK | |
| Number of Channel | : | 79 | |
| Channel space | : | 1MHz | |
| Antenna Type | : | PCB antenna | |
| Antenna Gain | : | 0.5dBi (declared by manufacturer) | |
| | | | |



| SUMMARY OF TEST RESULTS | | |
|-----------------------------|--|---------------------------|
| Section (ETSI EN 300328) | Description of Test | TEST RESULT |
| 4.3.1.2/4.3.2.2 | RF Output Power | Compliant |
| 4.3.2.3 | Power Spectral Density (Modulations other than FHSS equipment) | N/A |
| 4.3.1.3 / 4.3.2.4 | Duty cycle, Tx-Sequence, Tx-gap (Non-adaptive equipment) | N/A ^{see note 1} |
| 4.3.1.4 | Dwell time, Minimum Frequency Occupation & Hopping Sequence (FHSS equipment) | Compliant |
| 4.3.1.5 | Hopping Frequency Separation (FHSS equipment) | Compliant |
| 4.3.1.6 / 4.3.2.5 | Medium Utilisation (Non-adaptive equipment) | N/A ^{see note 2} |
| 4.3.1.7 / 4.3.2.6 | Adaptivity | N/A ^{see note 2} |
| 4.3.1.8 / 4.3.2.7 | Occupied Channel Bandwidth | Compliant |
| 4.3.1.9 / 4.3.2.8 | Transmitter unwanted emission in the OOB domain | Compliant |
| 4.3.1.10 / 4.3.2.9 | Transmitter unwanted emissions in the spurious domain | Compliant |
| 4.3.1.11 / 4.3.2.10 | Receiver spurious emissions | Compliant |
| 4.3.1.12/4.3.2.11 | Receiver Blocking | Compliant |
| 4.3.1.13/4.3.2.12 | Geo-location capability | N/A ^{see note 3} |

Note 1: Only for equipment with Non-adaptive.

- Note 2: These requirements do not apply for equipment with a maximum declared RF Output power of less than 10dBm EIRP or for equipment when operating in a mode where the RF Output power is less than 10dBm EIRP.
- Note 3: Only for equipment with geo-location capability



2. DESCRIPTION OF TEST MODES AND TEST FREQUENCIES

The EUT has been tested under Normal Operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed. All data rate and modulation type were tested, only the worst-case record in this report.

3. TEST FREQUENCIES AND SOFTWARE

| Channel | Frequency MHz |
|---------|------------------|
| 0 | 2402 |
| 39 | 2441 |
| 78 | 2480 |

| Test Item | Software | Description |
|---|-------------------|---|
| Conducted RF Testing and Radiated testing | BT FCC Tool V1.02 | Set the EUT to different modulation and channel |

4. OBJECTIVE

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2.4GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the RE-D directive.

The objective is to determine compliance with ETSI EN 300328 V2.1.1 (2016-11).

5. TEST METHODOLOGY

All measurements contained in this report were conducted with ETSI EN 300328 V2.1.1 (2016-11).



6. TEST FACILITY

| Site Description EMC Lab | Listed by CNAS, August 13, 2018 The certificate is valid until August 13, 2024 The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 The Certificate Registration Number is L5795. | |
|-----------------------------|--|--|
| | Listed by A2LA, November 01, 2017 The certificate is valid until December 31, 2021 The Laboratory has been assessed and proved to be in compliance with ISO17025 The Certificate Registration Number is 4429.01 | |
| | Listed by FCC, November 06, 2017 The Designation Number is CN1214 Test Firm Registration Number: 907417 | |
| | Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is 46405-9743 | |
| Name of Firm | : Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.) | |
| Site Location | Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China | |

7. MEASUREMENT UNCERTAINTY

| Parameter | Uncertainty |
|-----------------------------------|---------------------------|
| Occupied Channel Bandiwdth | ±1.42 x10 ⁻⁴ % |
| RF output power, conducted | ±1.06dB |
| Power Spectral Density, conducted | ±1.06dB |
| Unwanted Emissions, conducted | ±2.51dB |
| All emissions, radiated | ±3.70dB |
| Temperature | ±0.8 ℃ |
| Humidity | ±3.2% |
| DC and low frequency voltages | ±0.1% |
| Time | ±5% |
| Duty cycle | ±5% |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2



8. SUPPORT EQUIPMENT

| Notebook PC | : Manufacturer: IBM Corporation |
|-------------|---|
| Adapter | M/N: R50e S/N: L3-HZNGO P/N: 1834KDC Manufacturer: IBM Corporation M/N: 08K8210 |
| | Input: AC100-240V 50/60Hz 0.5-1.0A Output: DC 16V 4.5A |



9. RF OUTPUT POWER

Limits

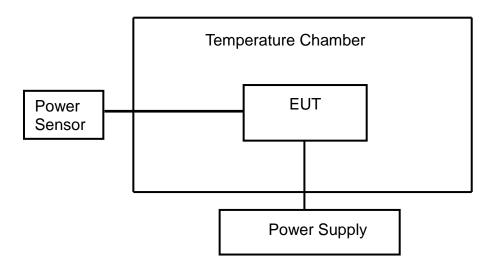
| Frequency Band | Limit |
|-------------------|---|
| 2400 ~ 2483.5 MHz | Equivalent isotropic radiated power (e.i.r.p.) ≤20 dBm |

Test Method

- 1. Please refer to ETSI EN 300328 ($V_{2.1.1}$) clause 5.4.2.2.1 for conducted measurement method.
- 2. The measurements shall be performed at both normal environmental conditions and at The extremes of the operating temperature range.

Test Configuration

Temperature and Voltage Measurement



Test Result

Pass.

Please refer to following data tables.



| GFSK | | | | | | |
|---|----------|---------|---------|----------|------|--------|
| Humidity : | | 52 % | Tempe | rature : | | 22 °C |
| Test Result: | | PASS | Test By | /: | | Lee |
| Antenna Assemb | ly Gain: | | | | | 0.5dBi |
| Cable Loss= | | | | | | 1.5dB |
| Number of Burst | | | | | | >20 |
| | | Hopping | j Mode | | | |
| Temperature (°C)Power SuppliedReading dBmEIRPLimit dBm | | | | - | | |
| 25 AC 230V 1.42 3 | | | 8.42 | 20 | | |
| 0 | AC 230V | 0.43 2 | | 2.43 | 20 | |
| 35 | AC 230V | 1.5 | 2 | 3 | 8.52 | 20 |

Note: Calculated Power(dBm)=Output Power(dBm)+Cable Loss(dB)+Antenna Gain(dBi)

| 8DPSK | | | | | | |
|--------------------|---------------------|-----------|------------|----------|----------|--------------|
| Humidity : | | 52 % | Tempe | rature : | | 22 °C |
| Test Result: | | PASS | Test By | /: | | Lee |
| Antenna Assemb | ly Gain: | • | | | | 0.5dBi |
| Cable Loss= | | | | | | 1.5dB |
| Number of Burst | Number of Burst >20 | | | | | |
| | | Hopping | Mode | | | |
| Temperature (℃) | Power Supplied | Rea dE | ding Bm | | RP 3m | Limit dBm |
| 25 AC 230V 2.01 4 | | | .01 | 20 | | |
| 0 AC 230V 1.64 3 | | | 6.64 | 20 | | |
| 35 AC 230V 1.51 | | 3 | 5.51 | 20 | | |

Note: Calculated Power(dBm)=Output Power(dBm)+Cable Loss(dB)+Antenna Gain(dBi)



10. DWELL TIME, MINIMUM FREQUENCY OCCUPATION AND HOPPING SEQUENCE

Limits

| Dwell Time | | | |
|--|----------|--|--|
| Test Condition | Limit | | |
| Non-adaptive frequency hopping systems | ≤ 15 ms | | |
| Adaptive frequency hopping systems | ≤ 400 ms | | |

| Minimum Frequency Occupation Time | | | |
|--|---|--|--|
| Test Condition Limit | | | |
| Non-adaptive frequency hopping systems | Equal to one dwell time within a period not exceeding four times the product of the dwell time per hop and the number of | | |
| Adaptive frequency hopping systems | hopping frequencies in use. | | |

| Hopping sequence(s) | | | |
|--|--|--|--|
| Test Condition | Limit | | |
| Non-adaptive frequency hopping systems | ≥15 hopping frequencies or 15/minimum Hopping Frequency Separation in MHz , whichever is the greater. | | |
| Adaptive frequency | Operating frequency band ≥58.45MHz (Operating over a minimum of 70 % of the operating in the band 2,4 GHz to 2,4835 GHz) | | |
| hopping systems | ≥15 hopping frequencies or 15/minimum Hopping Frequency Separation in MHz , whichever is the greater. | | |



Test Method

- 1. Please refer to ETSI EN 300328 (V_{2.1.1}) clause 5.4.4.2.1 for conducted measurement method.
- 2. The measurements shall be performed at normal environmental condition.

Test Configuration



Test Result

Pass.

Please refer to following data tables and test plots.

| Temperature : | 25 ℃ | Humidity : | 53% |
|---------------|---------------|--------------|------|
| Test Date : | June 19, 2019 | Test Result: | PASS |
| Test By: | Lee | | |

| Hopping Sequence | | | | | |
|--|------|-------|--------|--------|--|
| Hopping Channels LimitsHopping Min. Hopping Range (%)Min. Hopping Range Limit(%)Result | | | | Result | |
| | GFSK | | | | |
| 79 | 15 | 95.46 | 70.00% | PASS | |
| 8DPSK | | | | | |
| 79 | 15 | 96.40 | 70.00% | PASS | |

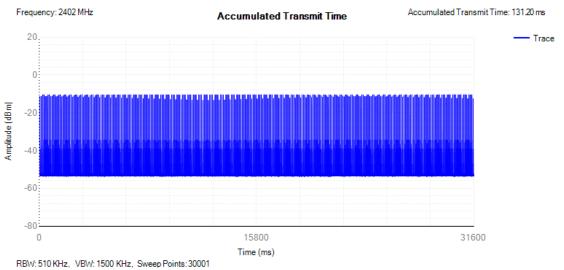


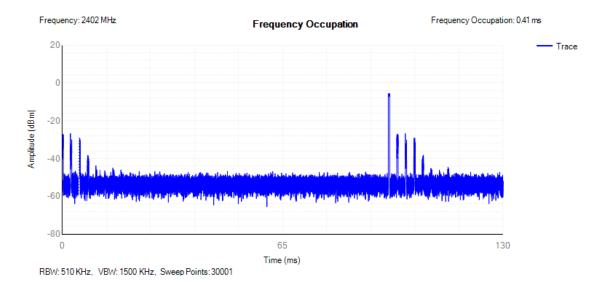
| Dwell Time | | | | | | |
|------------|------------------------------------|--|---------------|---------------|--------|--|
| Mode | Number of Hopping Channel | Number of transmission in a period (channel number *0.4sec Period (Sec) | Dwell Time | Limit (ms) | Result | |
| | GFSK | | | | | |
| DH1 | 79 | 31.6 | 131.20 | 400 | PASS | |
| DH3 | 79 | 31.6 | 265.60 | 400 | PASS | |
| DH5 | 79 | 31.6 | 311.37 | 400 | PASS | |
| | 8DPSK | | | | | |
| 3-DH1 | 79 | 31.6 | 128.00 | 400 | PASS | |
| 3-DH3 | 79 | 31.6 | 267.20 | 400 | PASS | |
| 3-DH5 | 79 | 31.6 | 309.52 | 400 | PASS | |

| Minimum Frequency Occupation | | | | | |
|------------------------------|---------------------------------|---|---------------|-----------------------|--|
| Mode | Number of Hopping Channel | Number of times (hopping frequency of hopping sequence) | Minimum Limit | Result (Pass/Fail) | |
| | GFSK | | | | |
| DH1 | 79 | 1 | ≥1 | PASS | |
| DH3 | 79 | 3 | ≥1 | PASS | |
| DH5 | 79 | 3 | ≥1 | PASS | |
| | 8DPSK | | | | |
| 3-DH1 | 79 | 1 | ≥1 | PASS | |
| 3-DH3 | 79 | 3 | ≥1 | PASS | |
| 3-DH5 | 79 | 3 | ≥1 | PASS | |



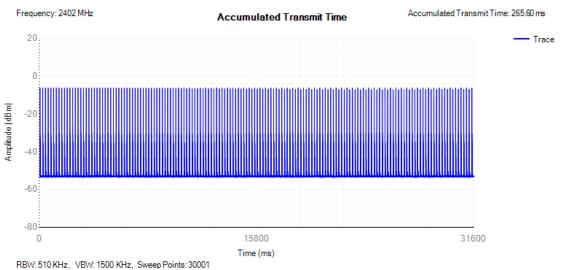
GFSK DH1

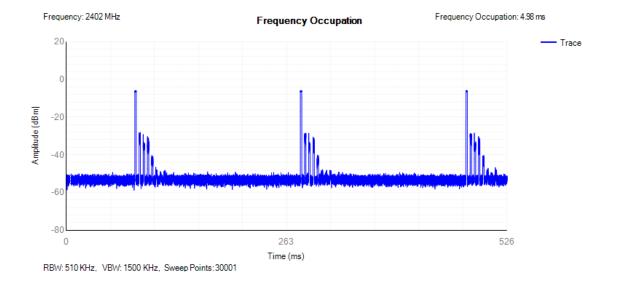






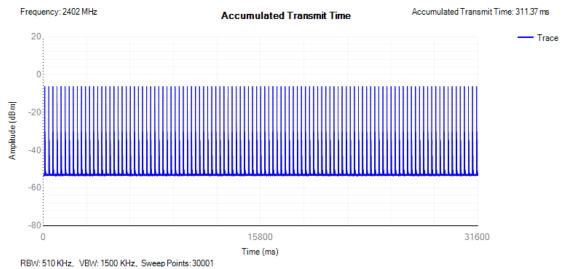
GFSK DH3

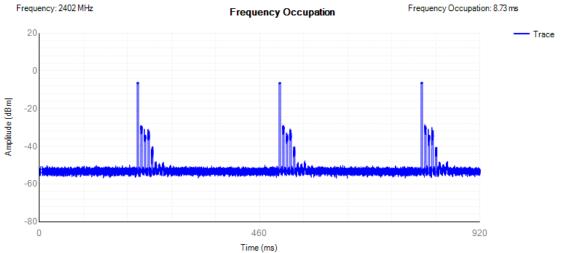






GFSK DH5

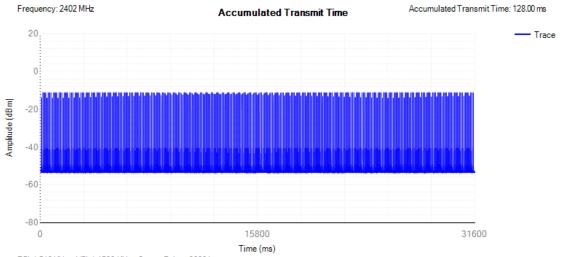




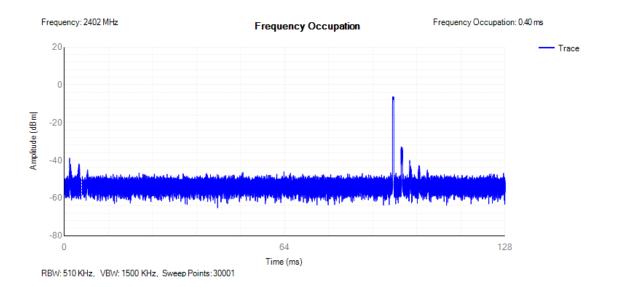
RBW: 510 KHz, VBW: 1500 KHz, Sweep Points: 30001



8DPSK 3-DH1

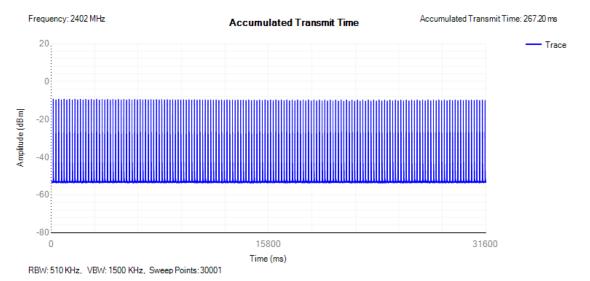


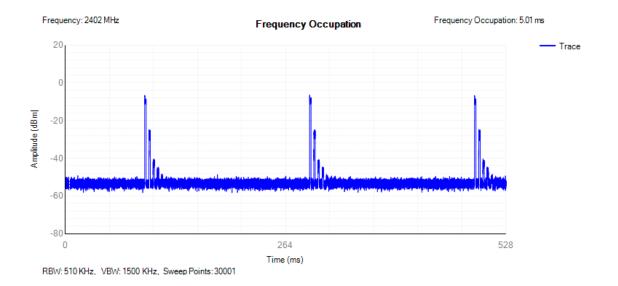
RBW: 510 KHz, VBW: 1500 KHz, Sweep Points: 30001





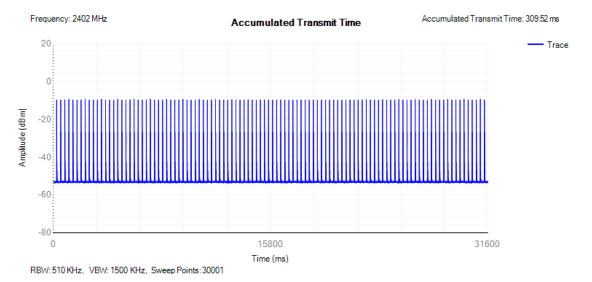
8DPSK 3-DH3

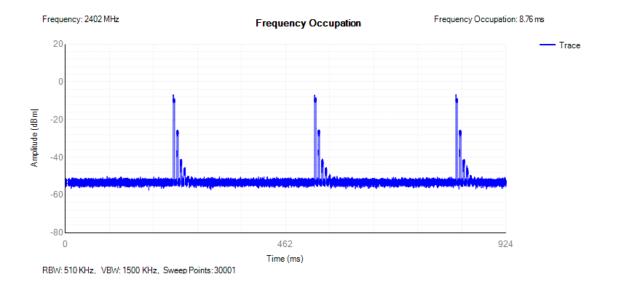




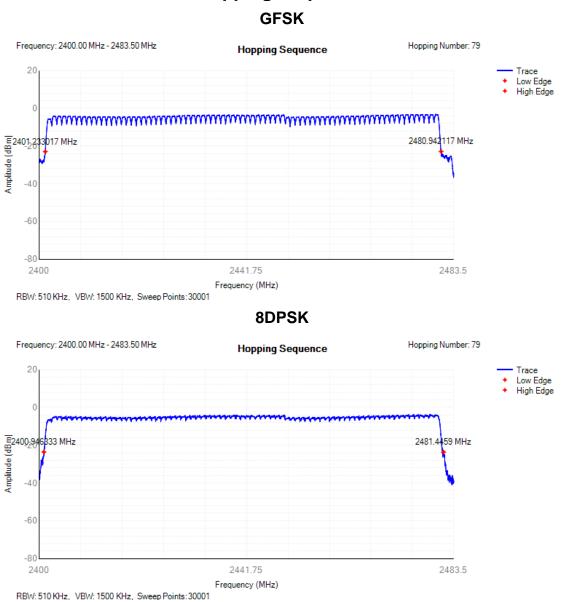


8DPSK 3-DH5











11. OCCUPIED CHANNEL BANDWIDTH

Limits

| Condition | Limit |
|---|--|
| All types of equipment | Shall fall completely within the band 2400 to 2483.5 MHz |
| For non-adaptive using wide band modulations other than FHSS system and e.i.r.p > 10dBm | Less than 20MHz |
| For non-adaptive Frequency Hopping system and e.i.r.p > 10dBm | Less than 5MHz |

Test Method

- 1. Please refer to ETSI EN 300328 (V_{2.1.1}) clause 5.4.8.2.1 for conducted measurement method.
- 2. The measurements shall be performed at normal environmental condition.

Test Configuration



Test Result

Pass.

Please refer to following data tables and test plots.



| Temperature : | 25 ℃ | Humidity : | 53% |
|-------------------------|----------------------|--------------|------|
| Test Date : Test By: | June 19, 2019 Lee | Test Result: | PASS |

| Channel frequency (MHz) | 99% Bandwidth (KHz) | FL at 99% BW (MHz) | FH at 99% BW (MHz) | Limit | Result | | |
|-------------------------------|---------------------------|--------------------------|--------------------------|------------------|--------|--|--|
| | | GF | SK | | | | |
| 2402 | 841 | 2401.561 | 2402.402 | FL > 2.4 GHz and | Pass | | |
| 2480 | 841 | 2479.564 | 2480.405 | FH < 2.4835 GHz | Pass | | |
| | 8DPSK | | | | | | |
| 2402 | 1180 | 2401.385 | 2402.565 | FL > 2.4 GHz and | Pass | | |
| 2480 | 1178 | 2479.389 | 2480.568 | FH < 2.4835 GHz | Pass | | |

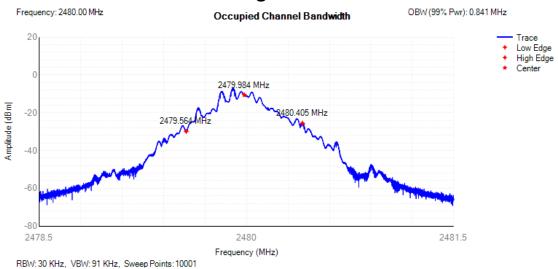
Note: FL is the lowest frequency of the 99% occupied bandwidth of power envelope. FH is the highest frequency of the 99% occupied bandwidth of power envelope.



GFSK Lowest Channel Frequency: 2402.00 MHz OBW (99% Pwr): 0.841 MHz Occupied Channel Bandwidth 20 Trace Low Edge High Edge Center 0 2401.982 MHz Amplitude (dBm) -20 02.402 MHz 2401.561 -40 -60 -80 2402 2403.5 2400.5 Frequency (MHz)

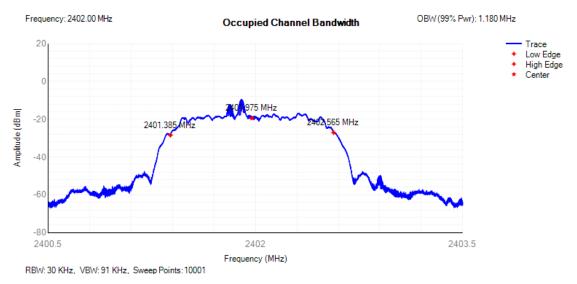
RBW: 30 KHz, VBW: 91 KHz, Sweep Points: 10001

GFSK Highest Channel

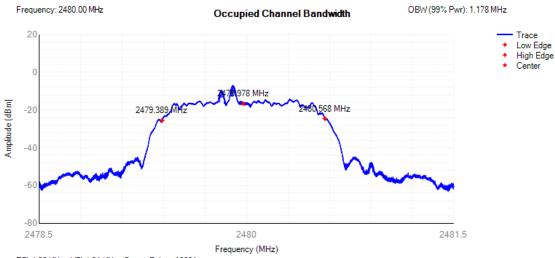




8DPSK Lowest Channel



8DPSK Highest Channel



RBW: 30 KHz, VBW: 91 KHz, Sweep Points: 10001



12. HOPPING FREQUENCY SEPARATION

Limits

| Condition | Limit | | |
|--|--|--|--|
| | The minimum Hopping Frequency Separation shall be equal to Occupied | | |
| Nom-adaptive frequency hopping systems | Channel Bandwidth of a single hop, with a minimum separation of 100 kHz. | | |
| Adaptive frequency hopping systems | The minimum Hopping Frequency Separation shall be 100 kHz. | | |

Test Method

- 1. Please refer to ETSI EN 300328 ($V_{2.1.1}$) clause 5.4.5.2.1 for conducted measurement method.
- 2. The measurements shall be performed at normal environmental condition.

Test Configuration



Test Result

Pass.

Please refer to following data tables and test plots.



Temperature : Test Date : Test By:

25 ℃ June 19, 2019 Lee

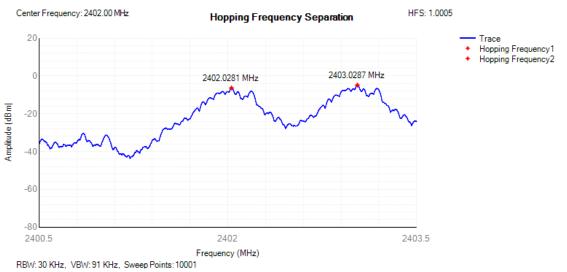
Humidity : 53% Test Result:

PASS

| Channel frequency (MHz) | Channel Separation (KHz) | Limit (MHz) Minimum | Result | | |
|-------------------------------|--------------------------------|---------------------------|--------|--|--|
| | GF | SK | | | |
| 2402 | 1000.5 | 0.1 | Pass | | |
| 2480 | 998.6 0.1 | | Pass | | |
| 8DPSK | | | | | |
| 2402 | 1000 | 0.1 | Pass | | |
| 2480 | 990 | 0.1 | Pass | | |

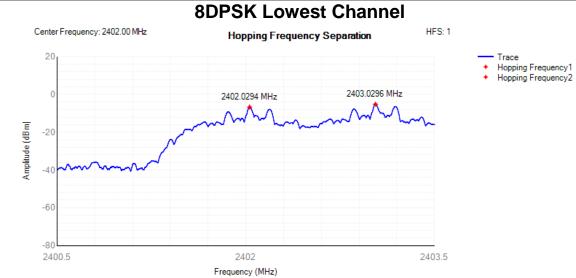


GFSK Lowest Channel



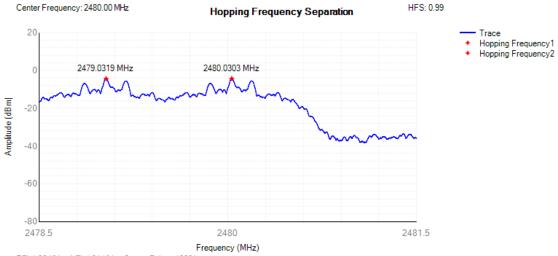






RBW: 30 KHz, VBW: 91 KHz, Sweep Points: 10001





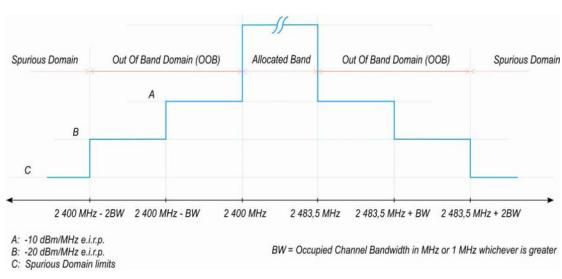
RBW: 30 KHz, VBW: 91 KHz, Sweep Points: 10001



13. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF BAND DOMAIN

Limits

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask



Transmit mask

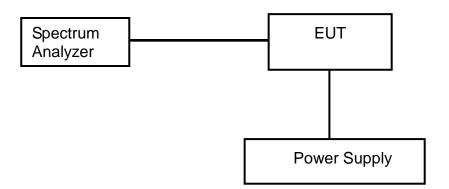
Test Method

- 1. Please refer to ETSI EN 300328 ($V_{2.1.1}$) clause 5.4.8.2.1 for conducted measurement method.
- 2. The measurements shall be performed at both normal environmental conditions.



Test Configuration

Temperature and Voltage Measurement



Test Result

Pass.

Please refer to following data tables.



Temperature : Test Date : Test By:

25 ℃ June 19, 2019 Lee

Humidity : 53% Test Result:

PASS

| Condition | 2400-BW~2400 / 2483.5+BW ~2483.5 (dBm/MHz) | Limit (dBm/MHz) | 2400-2*BW~2400-BW / 2483.5+2*BW ~2483.5+BW (dBm/MHz) | Limit (dBm/MHz) | Result | | | |
|--------------------|--|--------------------|--|--------------------|--------|--|--|--|
| | | GFSK | | | | | | |
| | (Hopping) | | | | | | | |
| AC 230V | -70.84 | -10 | -69.46 | -20 | PASS | | | |
| 8DPSK (Hopping) | | | | | | | | |
| AC 230V | -71.02 | -10 | -69.58 | -20 | PASS | | | |



14. TRANSIMITTER SPURIOUS EMISSIONS

Limits:

The transmitter unwanted emissions in the spurious domain shall not exceed the values.

| Frequency Range | Maximum power e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz) | Bandwidth |
|--------------------|--|-----------|
| 30 MHz to 47MHz | -36 dBm | 100KHz |
| 47 MHz to 74MHz | -54 dBm | 100KHz |
| 74 MHz to 87.5MHz | -36 dBm | 100KHz |
| 87.5 MHz to 118MHz | -54 dBm | 100KHz |
| 118 MHz to 174MHz | -36 dBm | 100KHz |
| 174 MHz to 230MHz | -54 dBm | 100KHz |
| 230 MHz to 470MHz | -36 dBm | 100KHz |
| 470 MHz to 862MHz | -54 dBm | 100KHz |
| 862 MHz to 1GHz | -36 dBm | 100KHz |
| 1GHz to 12.75GHz | -30 dBm | 1MHz |

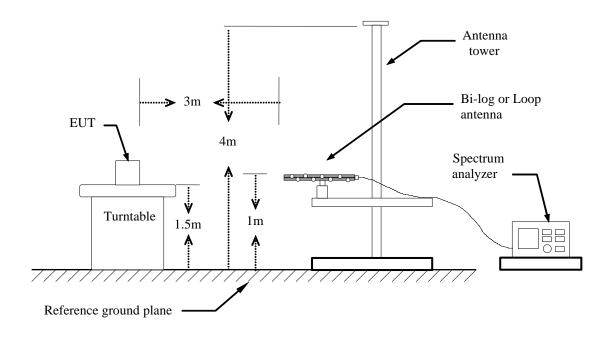
Test Method

- 1. Please refer to ETSI EN 300328 ($V_{2.1.1}$) clause 5.4.9.2.2 for radiated measurement method.
- 2. The measurements shall be performed at normal environmental condition.

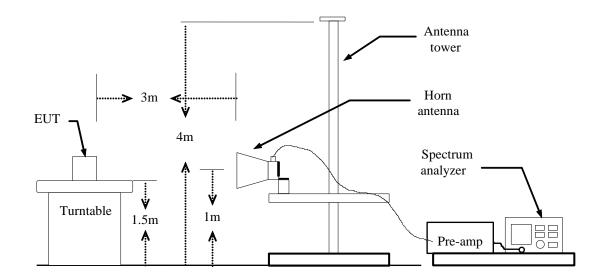


Test Configuration

Below 1GHz



Above 1GHz



Test Result

Pass.

Please refer to following data tables of the worst case: 8DPSK .



| Below 1GHz Low channel | | | | | |
|---------------------------|-------------------------|----|-------------------|----------------|----------------|
| Humidity : | 47 % | | Temperat | ure: 26 ℃ | |
| Test Result: | PASS | | Test By: | Lee | |
| Test Mode: | ТХ | | | | |
| Frequency (MHz) | Antenna Polarization | | ion level IBm) | Limit (dBm) | Margin (dB) |
| 218.1800 | Vertical | -6 | 2.77 | -54.00 | -8.77 |
| 229.8200 | Vertical | -6 | 3.34 | -54.00 | -9.34 |
| | | | | | |
| 107.6000 | Horizontal | -6 | 1.70 | -54.00 | -7.70 |
| 203.6300 | Horizontal | -6 | 3.03 | -54.00 | -9.03 |
| | | | | | |

| Below 1GHz High channel | | | | | |
|----------------------------|-------------------------|-----------|--------------------|----------------|----------------|
| Humidity : | 47 % | | Temperat | ure: 26 ℃ | |
| Test Result: | PASS | | Test By: | Lee | |
| Test Mode: | ТХ | | | | |
| Frequency (MHz) | Antenna Polarization | | sion level IBm) | Limit (dBm) | Margin (dB) |
| 217.2100 | Vertical | -6 | 2.45 | -54.00 | -8.45 |
| 227.8800 | Vertical | ertical 6 | | -54.00 | -9.40 |
| | | | | | |
| 107.6000 | Horizontal | -6 | 2.23 | -54.00 | -8.23 |
| 202.6600 | Horizontal | -6 | 3.51 | -54.00 | -9.51 |
| | | | | | |



| Above 1GHz Low channel | | | | | | |
|---------------------------|-------------------------|-------------|--------------------|----------------|----------------|--|
| Humidity : 4 | 7 % | | Temperat | ure: 26 ℃ | | |
| Test Result: P | ASS | | Test By: | Lee | | |
| Test Mode: T | X | | | | | |
| Frequency (MHz) | Antenna Polarization | | sion level dBm) | Limit (dBm) | Margin (dB) | |
| 4804 | Vertical | Vertical -4 | | -30 | -14.48 | |
| 7206 | Vertical -3 | | 9.65 | -30 | -9.65 | |
| | | | | | | |
| 4804 | Horizontal | -44.63 | | -30 | -14.63 | |
| 7206 | Horizontal | -3 | 9.32 | -30 | -9.32 | |
| | | | | | | |

| Above 1GHz High channel | | | | | | |
|----------------------------|-------------------------|-------------|--------------------|----------------|----------------|--|
| Humidity : | 47 % | | Temperat | ure : 26 ℃ | | |
| Test Result: | PASS | | Test By: | Lee | | |
| Test Mode: | TX | | | | | |
| Frequency (MHz) | Antenna Polarization | | sion level IBm) | Limit (dBm) | Margin (dB) | |
| 4960 | Vertical | -44.91 | | -30 | -14.91 | |
| 7440 | Vertical | Vertical -3 | | -30 | -9.39 | |
| | | | | | | |
| 4960 | Horizontal | -44.87 | | -30 | -14.87 | |
| 7440 | Horizontal | -39.71 | | -30 | -9.71 | |
| | | | | | | |

Note: 1. Emission Level (dBm) = Reading level (dBm)+Correction Factor (dB)

- 2. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
- 3. The Test frequency range is 30MHz to12.75GHz.



15. RECEIVER SPURIOUS EMISSIONS

Limits

| Frequency Range | Maximum power e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz) | Bandwidth |
|------------------|--|-----------|
| 30 MHz to 1GHz | -57 dBm | 100KHz |
| 1GHz to 12.75GHz | -47 dBm | 1MHz |

Test Method

- 1. Please refer to ETSI EN 300328 (V_{2.1.1}) clause 5.4.10.2.2 for radiated measurement method.
- 2. The measurements shall be performed at normal environmental condition.

Test Configuration

Same as section 14 in this test report.

Test Result

Pass.

Please refer to following data tables of the worst case: 8DPSK.



| | | Below Low cł | - | | |
|--------------------|-------------------------|-----------------|-------------------|----------------|----------------|
| Humidity : | 47 % | | Temperat | ure: 26 ℃ | |
| Test Result: F | PASS | | Test By: | Lee | |
| Test Mode: | RX | | | | |
| Frequency (MHz) | Antenna Polarization | | ion level IBm) | Limit (dBm) | Margin (dB) |
| 30.0000 | Vertical | -6 | 0.95 | -57.00 | -3.95 |
| 224.9700 | Vertical | -6 | 3.23 | -57.00 | -6.23 |
| | | | | | |
| 119.2400 | Horizontal | -6 | 1.68 | -57.00 | -4.68 |
| 131.8500 | Horizontal | -6 | 2.16 | -57.00 | -5.16 |
| | | | | | |

| | | Below 10 High chai | - | | |
|--------------------|-------------------------|-----------------------|----------|----------------|----------------|
| Humidity : | 47 % | Te | emperati | ure : 26 ℃ | |
| Test Result: | PASS | Te | est By: | Lee | |
| Test Mode: | RX | | | | |
| Frequency (MHz) | Antenna Polarization | Emission (dBm | | Limit (dBm) | Margin (dB) |
| 30.9700 | Vertical | -61.4 | 10 | -57.00 | -4.40 |
| 224.0000 | Vertical | -63.1 | 9 | -57.00 | -6.19 |
| | | | | | |
| 119.2400 | Horizontal | -62.3 | 37 | -57.00 | -5.37 |
| 131.8500 | Horizontal | -64.1 | 4 | -57.00 | -7.14 |
| | | | | | |



| Above 1GHz Low channel | | | | | |
|---------------------------|-------------------------|-------------------------|----------|----------------|----------------|
| Humidity : | 47 % | | Temperat | ure : 26 ℃ | |
| Test Result: | PASS | | Test By: | Lee | |
| Test Mode: | RX | | | | |
| Frequency (MHz) | Antenna Polarization | Emission level (dBm) | | Limit (dBm) | Margin (dB) |
| 2402 | Vertical | -6 | 3.46 | -47.00 | -16.46 |
| | | | | | |
| 2402 | Horizontal | -6 | 3.30 | -47.00 | -16.30 |
| | | | | | |

| Above 1GHz High channel | | | | | |
|----------------------------|-------------------------|-------------------------|----------|----------------|----------------|
| Humidity : | 47 % | | Temperat | ure : 26 ℃ | |
| Test Result: | PASS | | Test By: | Lee | |
| Test Mode: | RX | | | | |
| Frequency (MHz) | Antenna Polarization | Emission level (dBm) | | Limit (dBm) | Margin (dB) |
| 2480 | Vertical | -6 | 3.21 | -47 | -16.21 |
| | | | | | |
| 2480 | Horizontal | -6 | 3.05 | -47 | -16.05 |
| | | | | | |

Note: 1. Emission Level (dBm) = Reading level (dBm)+Correction Factor (dB)

- 2. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
- 3. The Test frequency range is 30MHz to12.75GHz.



16. RECEIVER BLOCKING

Limits

Adaptive equipment using wide band modulations, shall comply with the requirements defined in clauses 4.3.1.12.3 and clauses 4.3.1.12.4 in the presence of a blocking signal with characteristics as below table.

| (| (1) | Receiver Blocking | parameters | for Receiver | Category 1 | equipment |
|---|-----|---------------------|------------|--------------|------------|-----------|
| | (י) | I Receiver Diocking | parameters | | Category i | cquipment |

| Wanted signal mean power from companion device (dBm) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 2) | Type of blocking signal | | |
|---|--|--|----------------------------|--|--|
| Pmin + 6 dB | 2 380 2 503,5 | -53 | CW | | |
| Pmin + 6 dB | 2 300 Pmin + 6 dB 2 330 2 360 | | CW | | |
| Pmin + 6 dB | 2 523,5 2 553,5 2 583,5 2 613,5 2 643,5 2 673,5 | -47 | CW | | |
| NOTE 1: Pmin is the minimum level of wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any | | | | | |

minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 2: 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.

(2) Receiver Blocking parameters receiver category 2 equipment

| Wanted signal mean power from companion device (dBm) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 2) | Type of blocking signal | |
|---|---------------------------------------|--|----------------------------|--|
| Pmin + 6 dB | 2 380 2 503,5 | -57 | CW | |
| Pmin + 6 dB | 2 300 2 583,5 | -47 | CW | |
| NOTE 1: Province the minimum lovel of the wanted signal (in dBm) required to most | | | | |

NOTE 1: Pmin is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 2: 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.



(3) Receiver Blocking parameters receiver category 3 equipment

| Wanted signal mean power from companion device (dBm) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 2) | Type of blocking signal | |
|---|---------------------------------------|--|----------------------------|--|
| Pmin + 12 dB | 2 380 2 503,5 | -57 | CW | |
| Pmin + 12 dB | 2 300 2 583,5 | -47 | CW | |
| NOTE 1: Province the minimum lovel of the wanted signal (in dBm) required to meet | | | | |

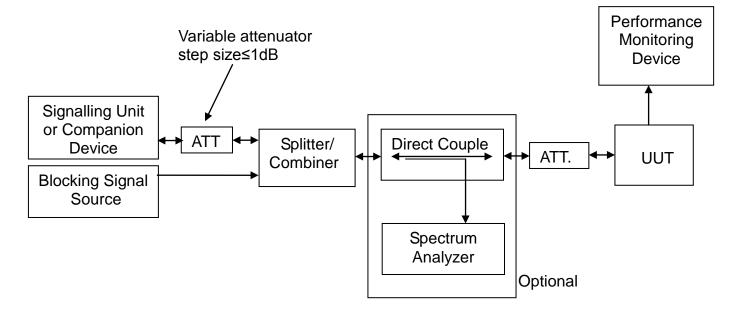
NOTE 1: Pmin is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 2: 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.

Test Method

- 1. Please refer to ETSI EN 300328 (V_{2.1.1}) clause 5.4.11.2.1 for conducted measurement method.
- 2. The measurements shall be performed at normal environmental condition.

Test Configuration





Test Result

Pass.

Please refer to following data tables.

| Humidity : | Humidity : 52 % | | Temperature : | | 22 ° | | С |
|---|---------------------------------------|------------------|---------------------------|---------|---------|------------------|-----|
| Test Result: | PASS | | 5 | Test By | Lee | | |
| Antenna Assembly (| Gain: | | | | | 0.50 | dBi |
| □ category 1 | | ⊠cate | gory 2 | | □catego | ory 3 | |
| Wanted signal mean power from companion device (dBm) | Blocking signal frequency (MHz) | | king signal powe (dBm) | PER(%) | | PER Limit (%) | |
| GFSK | | | | | | | |
| Pmin + 6 dB | | 2 380 2 503,5 | | -56.5 | | | 10 |
| Pmin + 6 dB | 2 300 2 583,5 | | | -46.5 | | | 10 |
| 8DPSK | | | | | | | |
| Pmin + 6 dB | 2 380 2 503,5 | | | -56.5 | 1.0 | | 10 |
| Pmin + 6 dB | 2 300 2 300 2 583,5 | | -46.5 | | 0.8 | | 10 |



17. TEST EQUIPMENT LIST

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------------------|--------------------|-----------|-------------------|---------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESCI7 | 100837 | Mar. 14, 2019 | 1 Year |
| 2. | Antenna | Schwarzbeck | VULB9162 | 9162-010 | Mar. 23, 2019 | 1 Year |
| 3. | Spectrum Analyzer | Rohde & Schwarz | FSU26 | 200409/026 | Mar. 14, 2019 | 1 Year |
| 4. | Spectrum Analyzer | Keysight | N9020A | MY54200831 | Apr. 24, 2019 | 1 Year |
| 5. | Signal generator | Agilent | E4421B | MY41000708 | Mar. 14, 2019 | 1 Year |
| 6. | Signal generat or | Agilent | N5182A | MY48180739 | Mar. 14, 2019 | 1 Year |
| 7. | Power Sensor | DARE | RPR3006W | 15I00041SNO 64 | Mar. 14, 2019 | 1 Year |
| 8. | Communicati on Tester | Rohde & Schwarz | CMW500 | 149004 | Mar. 14, 2019 | 1 Year |
| 9. | Horn Antenna | COM-Power | AH-118 | 071078 | Mar. 23, 2019 | 1 Year |
| 10. | Pre-Amplifier | HP | HP 8449B | 3008A00964 | Mar. 14, 2019 | 1 Year |
| 11. | Pre-Amplifier | HP | HP 8447D | 1145A00203 | Mar. 14, 2019 | 1 Year |
| 12. | Temperature & Humidity Chamber | REMAFEE | SYHR225L | N/A | Apr. 24, 2019 | 1 Year |
| 13. | DC Source | Maynuo | MY8811 | N/A | Mar.23,2019 | 1 Year |
| 14. | Test Software | EZ | EZ_EMC | N/A | N/A | N/A |
| 15. | Test Software | MWRF | MWRF_V1.0 | N/A | N/A | N/A |



APPENDIX I

INFORMATION AS REQUIRED BY EN 300 328 V2.1.1, CLAUSE 5.4.1



In accordance with EN 300 328, clause 5.4.1, the following information is provided by the supplier.

| a) The type of modulation used by the equipment: | ☑ FHSS □ other forms of modulation | | | | |
|--|--|--|--|--|--|
| | In case of non-Adaptive Frequency Hopping equipment: The number of Hopping Frequencies: | | | | |
| b) In case of FHSS modulation: | In case of Adaptive Frequency Hopping Equipment: The maximum number of Hopping Frequencies: 79 The minimum number of Hopping Frequencies: | | | | |
| | The (Average) Dwell Time: <u>310.445ms</u> | | | | |
| c) Adaptive / non-adaptive equipment: | non-adaptive Equipment adaptive Equipment without the possibility to switch to a non-adaptive mode adaptive Equipment which can also operate in a non-adaptive mode | | | | |
| | The maximum Channel Occupancy Time implemented by the equipment: | | | | |
| | ms | | | | |
| | The equipment has implemented an LBT based DAA mechanism | | | | |
| d) In case of adaptive equipment: | In case of equipment using modulation different from FHSS: The equipment is Frame Based equipment The equipment is Load Based equipment The equipment can switch dynamically between Frame Based and Load | | | | |
| | Based equipment The CCA time implemented by the equipment: µs | | | | |
| | The equipment has implemented an non-LBT based DAA mechanism The equipment can operate in more than one adaptive mode | | | | |
| | The maximum RF Output Power (e.i.r.p.):dBm | | | | |
| e) In case of non-adaptive Equipment: | The maximum (corresponding) Duty Cycle: % | | | | |
| Equipment. | Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and orresponding power levels to be declared): | | | | |
| | RF Output Power <u>8DPSK</u> | | | | |
| | Power Spectral DensityN/A | | | | |
| | Duty cycle, Tx-Sequence, Tx-gapN/A | | | | |
| | Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment) | | | | |
| f) The worst case operational mode for each | Hopping Frequency Separation (only for FHSS equipment) GFSK | | | | |
| of the following tests: | Medium Utilisation <u>N/A</u> | | | | |
| | Adaptivity & Receiver Blocking GFSK | | | | |
| | Nominal Channel Bandwidth <u>8DPSK</u> | | | | |
| | Transmitter unwanted emissions in the OOB domain <u>8DPSK</u> | | | | |
| | Transmitter unwanted emissions in the spurious domain <u>8DPSK</u> | | | | |
| | Receiver spurious emissions <u>8DPSK</u> | | | | |



| | Operating mode 1: Single Antenna Equipment | | | |
|---|---|--|--|--|
| | Equipment with only 1 antenna | | | |
| | Equipment with 2 diversity antennas but only 1 antenna active at any moment in | | | |
| | time | | | |
| | Smart Antenna Systems with 2 or more antennas, but operating in a (legacy) | | | |
| | mode where only 1 antenna is used. (e.g. IEEE 802.11™ [i.3] legacy mode in | | | |
| | smart antenna systems) | | | |
| g) The different transmit operating modes (tick all | Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming | | | |
| | Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy | | | |
| | mode) | | | |
| that apply): | High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1 | | | |
| | High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2 | | | |
| | NOTE: Add more lines if more channel bandwidths are supported. | | | |
| | Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming | | | |
| | Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy | | | |
| | mode) | | | |
| | High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1 | | | |
| | High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2 | | | |
| | NOTE: Add more lines if more channel bandwidths are supported. | | | |
| | | | | |
| | •The number of Receive chains: | | | |
| | | | | |
| h) In case of Smart Antenna | •The number of Transmit chains: | | | |
| | •The number of Transmit chains: symmetrical power distribution | | | |
| Smart Antenna | •The number of Transmit chains: symmetrical power distribution asymmetrical power distribution | | | |
| Smart Antenna | The number of Transmit chains: symmetrical power distribution asymmetrical power distribution In case of beam forming, the maximum beam forming gain: | | | |
| Śmart Antenna Systems: | The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency | •The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the | The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency | •The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the equipment: | The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the equipment: j) Nominal | The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the equipment: | •The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the equipment: j) Nominal Channel Bandwidth(s): | •The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the equipment: j) Nominal Channel | •The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the equipment: j) Nominal Channel Bandwidth(s): k) Type of Equipment (stand-alone, | •The number of Transmit chains: | | | |
| Smart Antenna Systems: i) Operating Frequency Range(s) of the equipment: j) Nominal Channel Bandwidth(s): k) Type of Equipment | •The number of Transmit chains: | | | |



| | Normal operating conditions (if applicable): | | | | |
|--|--|--|--|--|--|
| | Operating temperature range: <u>25</u> ° Ć | | | | |
| N 1 | Other (please specify if applicable): | | | | |
| I) The normal and the | Extreme operating conditions: | | | | |
| extreme operating conditions that apply to | Operating temperature range: Minimum: <u>0</u> ° C Maximum: <u>35</u> ° C | | | | |
| the equipment: | Other (please specify if applicable): Minimum:° C Maximum: ° C | | | | |
| | Details provided are for the: | | | | |
| | stand-alone equipment | | | | |
| | combined (or host) equipment | | | | |
| | test jig | | | | |
| | •Antenna Type: | | | | |
| | PCB Antenna: | | | | |
| | Antenna Gain: <u>0.5</u> dBi | | | | |
| | If applicable, additional beamforming gain (excluding basic antenna gain):dB | | | | |
| | Temporary RF connector provided | | | | |
| | No temporary RF connector provided | | | | |
| | I Dedicated Antennas (equipment with antenna connector) | | | | |
| | Single power level with corresponding antenna(s) | | | | |
| | Multiple power settings and corresponding antenna(s) | | | | |
| | Number of different Power Levels: | | | | |
| | Power Level 1:dBm | | | | |
| | Power Level 2:dBm | | | | |
| | Power Level 3:dBm | | | | |
| | NOTE 1: Add more lines in case the equipment has more power levels | | | | |
| | NOTE 2: These power levels are conducted power levels (at antenna connector). | | | | |
| m) The intended | • For each of the Power Levels, provide the intended antenna assemblies, their | | | | |
| combination(s) of the radio equipment power | corresponding gains (G) and the resulting e.i.r.p. levels also taking into account | | | | |
| settings and one or | the beamforming gain (Y) if applicable | | | | |
| more antenna assemblies and their | Power Level 1: | | | | |
| corresponding e.i.r.p | Number of antenna assemblies provided for this power level: | | | | |
| levels: | Assembly # Gain (dBi) e.i.r.p.(dBm) Part number or model name | | | | |
| | 1 | | | | |
| | 2 | | | | |
| | 3 | | | | |
| | 4 | | | | |
| | Note: Add more rows in case more antenna assemblies are supported for this | | | | |
| | power level. | | | | |
| | Power Lovel 2 | | | | |
| | Power Level 2: Number of antenna assemblies provided for this power level: | | | | |
| | Assembly # Gain (dBi) e.i.r.p.(dBm) Part number or model | | | | |
| | name | | | | |
| | | | | | |
| | 2 | | | | |
| | 3 | | | | |
| | | | | | |
| | Note: Add more rows in case more antenna assemblies are supported for this | | | | |
| | power level. | | | | |



| | Power Level 3: | | | | |
|--|--|-----------------|-------------------|-------------------------------|--|
| | Number of ante | enna assemblies | provided for this | power level: | |
| | Assembly # | Gain (dBi) | e.i.r.p.(dBm) | Part number or model name | |
| | 1 | | | liallio | |
| | 2 | | | | |
| | | | | | |
| | 3 | | | | |
| | 4 | | | | |
| | Note: Add more | rows in case mo | ore antenna asse | mblies are supported for this | |
| | power level. | | | | |
| | Details provided are for the: stand-alone equipment | | | | |
| | Combined (or host) equipment □ test jig | | | | |
| n) The nominal voltages | | | | | |
| of the stand-alone radio | Supply Voltage AC mains State AC voltage <u>AC 100-240</u> V DC State DC voltage <u>V</u> In case of DC, indicate the type of power source | | | | |
| equipment or the | | | | | |
| nominal voltages of the | | | | | |
| combined (host) | | | | | |
| equipment or test jig in case of plug-in devices: | Internal Power Supply | | | | |
| case of plug-in devices. | External Power Supply or AC/DC adapter | | | | |
| | 🗌 Ba | attery | | | |
| | ☐ Other: | | | | |
| o) Describe the test | | | | | |
| modes available which | The EUT provides TX Mode to control RF signal transmission | | | | |
| can facilitate testing: | | | | | |
| p) The equipment type | | | | | |
| (e.g. Bluetooth®, IEEE | Bluetooth® | | | | |
| 802.11™ [i.3], | Didetootino | | | | |
| proprietary, etc.): | | | | | |
| q) If applicable, the | | | | | |
| statistical analysis | (to be provided as separate attachment) | | | | |
| referred to in clause 5.4.1 q) | | | | | |
| r) If applicable, the | | | | | |
| statistical analysis | | | | | |
| referred to in clause | (to be provided as separate attachment) | | | | |
| 5.4.1 r) | | | | | |
| | 🗌 Yes | | | | |
| s) Geo-location | The geographical location determined by the equipment as defined in | | | | |
| capability supported by | clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user | | | | |
| the equipment: | 🗌 No | | | | |
| t) Describe the | | | | | |
| minimum performance | | | | | |
| criteria that apply to the | | | | | |
| equipment (see clause | | | | | |
| 4.3.1.12.3 or clause | | | | | |
| 4.3.2.11.3): | | | | | |



| | Highest overall e.i.r.p. value: <u>4.01</u> dBm | | | | | |
|--|--|-----------------------------------|--|--|--|--|
| E.3 Combination for testing | Corresponding Antenna assembly gain: <u>0.5</u> dBi | | | | | |
| | Corresponding conducted power setting: (also the power level to be used for testing) dBm | | | | | |
| | Antenna Assembly # | | | | | |
| | Listed as Power Setting #: | | | | | |
| E.4 Additional information provided by the applicant | | | | | | |
| E.4.1 Modulation: | ITU Class(es) of emission: | | | | | |
| | Can the transmitter operate unmodulated? 🛛 yes 🗌 no | | | | | |
| | The transmitter is intended for: | | | | | |
| | Continuous duty | | | | | |
| E.4.2 Duty Cycle | Intermittent duty | | | | | |
| | Continuous operation possible for testing purposes | | | | | |
| | ☐ The equipment submitted are representative production models | | | | | |
| | ☐ If not, the equipment submitted are pre-production models ? | | | | | |
| E.4.3 About the UUT | ☐ If pre-production equipment are submitted, the final production equipment will | | | | | |
| | be identical in all respects with the equipment tested | | | | | |
| | ☐ If not, supply full details | | | | | |
| | □ Spare batteries (e.g. for | portable equipment) | | | | |
| | Battery charging device | | | | | |
| | External Power Supply or AC/DC adapter | | | | | |
| | Test Jig or interface box | | | | | |
| | □ RF test fixture (for equipment with integrated antennas) | | | | | |
| E.4.4 Additional items | Host System | Manufacturer: | | | | |
| and/or supporting | | Model #: | | | | |
| equipment provided | | Model name: | | | | |
| | Combined equipment | Manufacturer: | | | | |
| | | Model #: | | | | |
| | | Model name: | | | | |
| | 🖾 User Manual | | | | | |
| | Technical documentation | n (Handbook and circuit diagrams) | | | | |



APPENDIX II

PHOTOGRPHS OF TEST SETUP







Radiated Emission Above 1 GHz

