



Radio Test Report

For

FMUSER INTERNATIONAL GROUP LIMITED

Test Standards: ETSI EN 300 328 V2.2.2(2019-07)

Product Description: FMUSER Smart Hotel

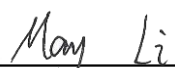
Tested Model: Fmuser Magic Box

Brand Name: FMUSER

Report No.: EBSZ2511030066E01

Tested Date: 2025.11.06~2025.11.08

Issued Date: 2025.11.14

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2025.11.14	Valid	Original Report

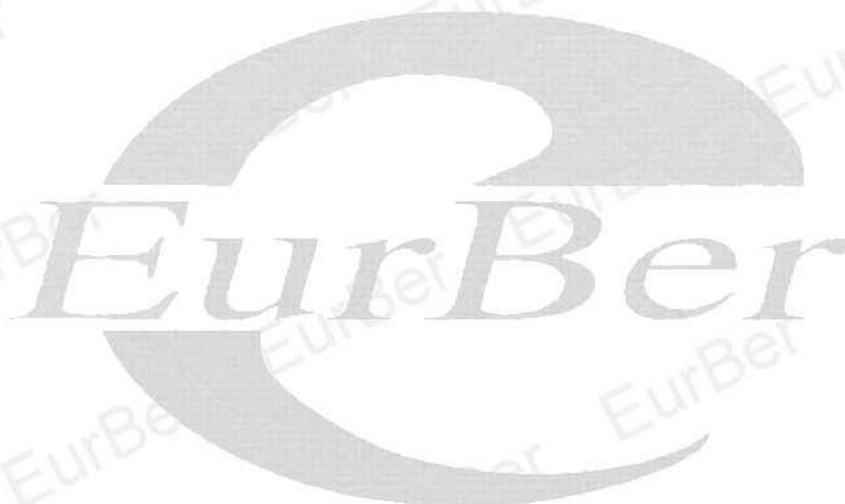
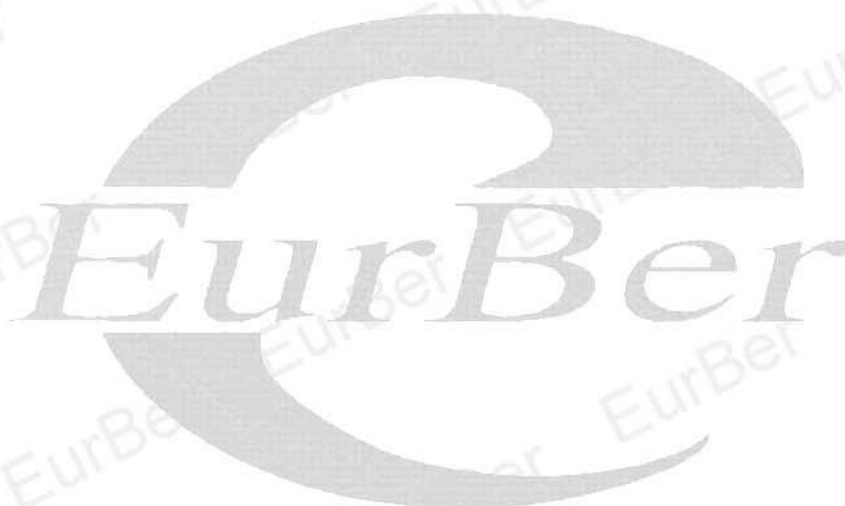


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SUMMARY OF TEST RESULT

CLAUSE (EN 300 328)	TEST PARAMETER	PASS/FAIL	REMARK
Transmitter Parameters			
4.3.1.2 4.3.2.2	Maximum Transmit Power	PASS	-
4.3.2.3	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Spectral Density	PASS	Only applicable for modulations other than FHSS
4.3.1.8 4.3.2.7	Occupied Channel Bandwidth	PASS	-
4.3.1.4 4.3.1.5	Frequency Hopping Requirements	PASS	Only applicable for FHSS
4.3.1.9 4.3.2.8	Transmitter spurious emissions in OOB	PASS	-
4.3.1.10 4.3.2.9	Transmitter spurious emissions	PASS	Under limit 4.52 dB at 2412 MHz
Receiver Parameters			
4.3.1.11 4.3.2.10	Receiver spurious emissions	PASS	Under limit 5.63 dB at 2462 MHz
Adaptive Test Item			
4.3.1.7 4.3.2.6	Adaptivity	PASS	Only applicable for adaptive equipment Output Power >10dBm
4.3.1.12 4.3.2.11	Receiver Blocking	PASS	
Non-Adaptive Test Item			
4.3.1.3 4.3.2.4	Duty cycle, Tx-Sequence, Tx-gap	Not Required	Only applicable for non-adaptive equipment Output Power >10dBm
4.3.1.6 4.3.2.5	Medium Utilisation (MU) factor	Not Required	
Note:			
1. Bluetooth belongs to adaptive equipment and EIRP < 10dBm.			
2. WiFi belongs to adaptive equipment and EIRP > 10dBm.			

1. General Description

1.1.Applicant

FMUSER INTERNATIONAL GROUP LIMITED

2301M, 23/F, No. 179 Tianhe North Road, Tianhe District, Guangzhou

1.2.Manufacturer

FMUSER INTERNATIONAL GROUP LIMITED

2301M, 23/F, No. 179 Tianhe North Road, Tianhe District, Guangzhou

1.3.General Description of EUT

Product	FMUSER Smart Hotel	
Model NO.	Fmuser Magic Box	
Additional NO.	N/A	
Difference Description	N/A	
Nominal Voltage	Input;DC5V $\pm$ 2A	
Extreme Temperature	0℃ and 60℃	
Modulation Type	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Operating Frequency	WLAN	2.4G WiFi: 802.11b/g/n HT20/ax HE20/ax HT40: 2412-2472MHz 802.11 n HT40/ax HE40: 2400-2484MHz
HW Version	N/A	
SW Version	N/A	
Sample Received Date	2025-11-03	
I/O Ports	Refer to user's manual	
Accessory Devices	Refer to note as below	

NOTE:

1. The above EUT information is declared by manufacturer. The laboratory is not responsible for the information provided by the manufacturer. For more detailed feature description, please refer to the manufacturer's specifications or user's manual.

For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

2. Channel List:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	2467
13	2472						

1.4.Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Lenovo	Notebook	Xiaoxinchao5000	PF0QPQMH	DOC
Lenovo	Wired Keyboard	LXH-JME2209U	60937461	DOC
Logitech	Wired Mouse	M-U0026	1826HS0070D8	DOC

1.5.Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Transmitter / Receiver Frequency Range	2400 MHz ~ 2484 MHz
Geo-location capability	Not Supported
Maximum EIRP Average Power	802.11b : 7.30 dBm 802.11g : 7.25 dBm 802.11n HT20 : 7.85 dBm 802.11n HT40 : 7.36 dBm
Antenna Type / Gain	WLAN(2.4G) : / 0.dBi

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.

1.6. Test Condition

Normal Condition	NTNV	Temperature	25℃	Voltage	5Vdc
Extreme Condition	LTNV	Temperature	0℃	Voltage	5Vdc
	HTNV	Temperature	70℃	Voltage	5Vdc

1.7. Applied Standards

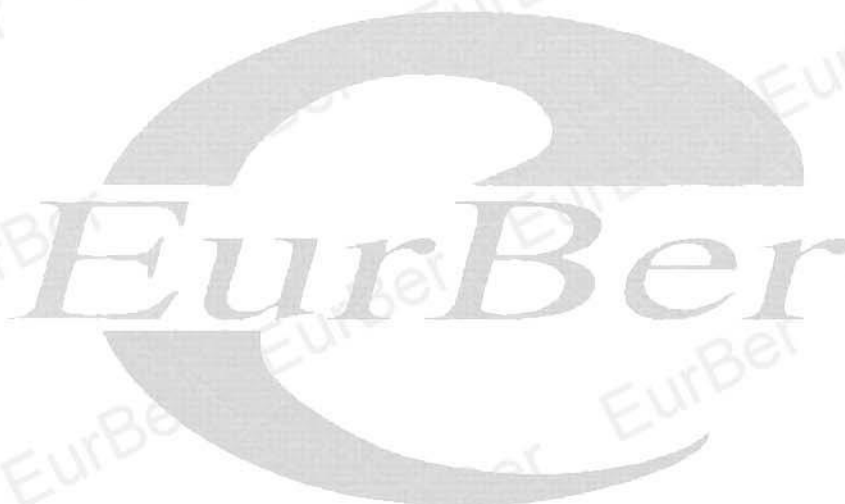
According to the specifications of the manufacturer, the EUT must comply with the requirements of **ETSI EN 300 328 V2.2.2 (2019-07)**.

Note: All test items were verified and recorded according to the standards and without any deviation during the test.

1.8. Address of the test laboratory

Guangdong Eurber Testing Co., Ltd.
Room 401/402, Building A, Tangxi Zhigu, No.21, Xijing Road, Gushu, Xixiang
Subdistrict, Bao'an District, Shenzhen, Guangdong, China
www.eurber.com/

2. Test Configuration of Equipment under Test



2.1.Descriptions of Test Mode

- During testing, the interface cables and equipment positions were varied according to ETSI EN 300 328 V2.2.2 (2019-07).
- The complete test system included EUT for RF test.
- Preliminary tests were checked in different data rate and recorded worse in the following tables:

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

The following tables for radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report.

Test Modes		
RF	802.11b DSSS	802.11g OFDM
Tx	802.11b CH01 (2412MHz) 802.11b CH13 (2472MHz)	802.11g CH01 (2412MHz) 802.11g CH13 (2472MHz)
Rx	802.11b CH01 (2412MHz) 802.11b CH13 (2472MHz)	802.11g CH01 (2412MHz) 802.11g CH13 (2472MHz)

Test Modes		
RF	802.11n HT20 OFDM	802.11n HT40 OFDM
Tx	802.11n HT20 CH01 (2412MHz) 802.11n HT20 CH13 (2472MHz)	802.11n HT40 CH03 (2422MHz) 802.11n HT40 CH11 (2462MHz)
Rx	802.11n HT20 CH01 (2412MHz) 802.11n HT20 CH13 (2472MHz)	802.11n HT40 CH03 (2422MHz) 802.11n HT40 CH11 (2462MHz)

Remark:

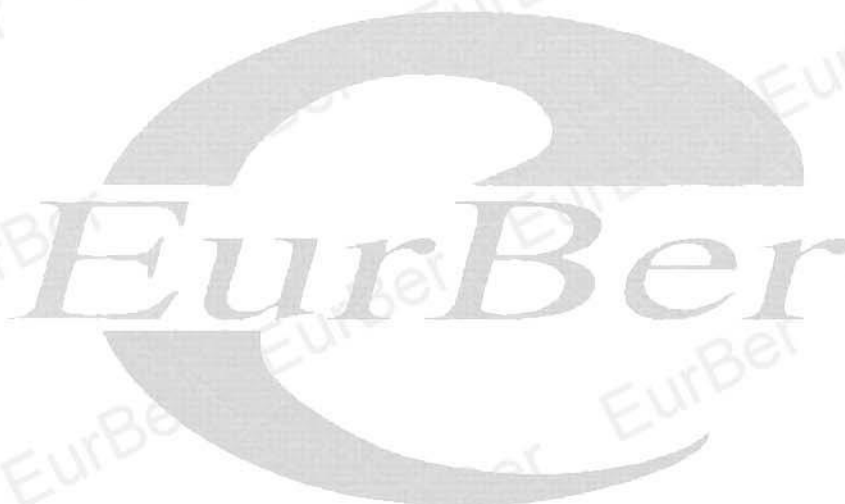
- All test modes of the Transmitter Radiated Spurious Emission (RSE) and Receiver Radiated Spurious Emission (RSE) were tested; only the test worse data in bold of these modes were reported.

2.2. Supported Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	Serial Number
1.	Bluetooth Base Station	R&S	CMW270	101231

2.3. EUT Operation Test Setup

For WLAN and Bluetooth 5.0 – LE test items, an engineering test program was provided and enabled to make EUT continuous transmitting and receiving signals



3. Transmitter Parameters

3.1. Maximum Transmit Power

3.1.1. Limit of Effective Isotropic Radiated Power

SUBCLAUSE 4.3.1.2.3 and 4.3.2.2.3	
	LIMIT
Normal and Extreme Temperature Conditions	20dBm (e.i.r.p)

3.1.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

3.1.3. Test Procedure

1. The measurement procedure follows the clause 5.4.2.2.1 of the ETSI EN 300 328 V2.2.2(2019-07).
2. Placing the EUT in thermal chamber.
3. The EUT is connected to external power supply.
4. Setting thermal chamber temperature and power supply voltage at suitable values.
5. Use a fast power sensor suitable for 2,4 GHz and capable of minimum 1 MS/s. Use the following settings:
 - Sample speed 1 MS/s or faster.
 - The samples shall represent the RMS power of the signal.
 - Measurement duration: 1 second to ensure a minimum number of bursts (at least 10) are captured.

For conducted measurements on devices with one transmit chain:

- Connect the power sensor to the transmit port, sample the transmit signal and store the raw data. Use

these stored samples in all following steps.

For conducted measurements on devices with multiple transmit chains:

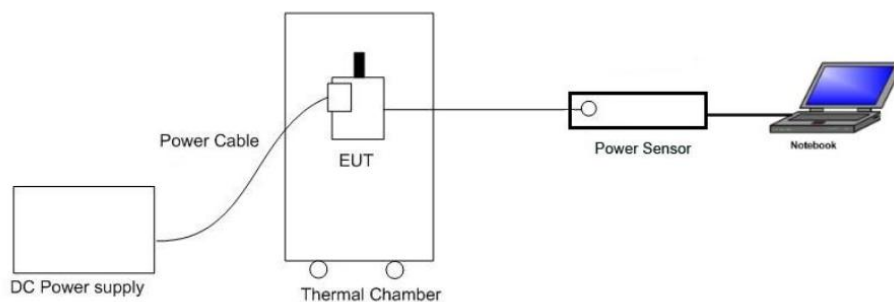
- Connect one power sensor to each transmit port for a synchronous measurement on all transmit ports.

- Trigger the power sensors so that they start sampling at the same time. Make sure the time difference

between the samples of all sensors is less than 500 ns.

6. The EIRP = A+G+Y, where A is the power measured, G is the assembly gain of the individual antenna of the EUT in dBi and Y is the additional beamforming gain of the EUT in dB if applicable, here, Y=0.

3.1.4. Test Setup



3.1.5. Test Results

Refer to Appendix A of this test report.

EurBer

3.2. Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Spectral Density

3.2.1. Limit of Maximum Power Spectral Density

SUBCLAUSE 4.3.2.3.3	
	LIMIT
Normal and Extreme Temperature Conditions	10dBm / MHz

Remark: Maximum spectral power density is not applicable to FHSS system device.

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

3.2.3. Test Procedure

1. The measurement procedure follows the clause 5.4.3.2 .1of the ETSI EN 300 328 V2.2.2(2019-07).
2. These measurements shall only be performed at normal s.
3. The measurement shall be repeated for the equipment being configured to operate at the lowest, the middle, and the highest frequency of the stated frequency range.
4. The test procedure shall be as follows:

Step 1:

Connect the EUT to the spectrum analyzer and use the following settings:

Start Frequency	2400MHz
Stop Frequency	2483.5MHz
Resolution BW	10kHz
Video BW	30kHz
Sweep Points	8350
Detector	RMS
Trace Mode	Max Hold
Sweep time	10 sec

Step 2:

Add up the values for amplitude (power) for all the samples in the file.

Step 3:

Normalize the individual values for amplitude so that the sum is equal to the RF Output Power (e.i.r.p.) measured.

Step 4:

Starting from the first sample in the file (lowest frequency), add up the power of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

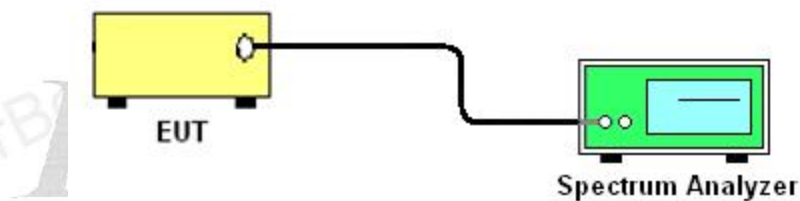
Step 5:

Shift the start point of the samples added up in step 4 by 1 sample and repeat the procedure in step 4 (i.e. sample #2 to #101).

Step 6:

Repeat step 5 until the end of the data set and record the radiated Power Spectral Density values for each of the 1 MHz segments.

From all the recorded results, the highest value is the maximum Power Spectral Density for the EUT. This value shall be recorded in the test report.

3.2.4. Test Setup**3.2.5. Test Results**

Refer to Appendix B of this test report.

3.3. Occupied Channel Bandwidth

3.3.1. Limit of Occupied Channel Bandwidth

Occupied Channel Bandwidth fall completely within 2.4 GHz – 2.4835 GHz

3.3.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

3.3.3. Test Procedure

1. The measurement procedure follows the clause 5.4.7.2.1 of the ETSI EN 300 328 V2.2.2(2019-07).
2. The measurement shall be performed only on the lowest and the highest frequency within the stated frequency range.
3. The test procedure shall be as follows:

Step 1:

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	Channel under test
Resolution BW	1 % of the span
Video BW	3 × RBW
Frequency Span	Frequency hopping equipment: Lowest frequency separation that is used within the hopping sequence. Other equipment: 2 × Occupied Channel Bandwidth (e.g. 40 MHz for a 20 MHz channel)
Detector	RMS
Trace Mode	Max Hold
Sweep Time	1 s

Step 2:

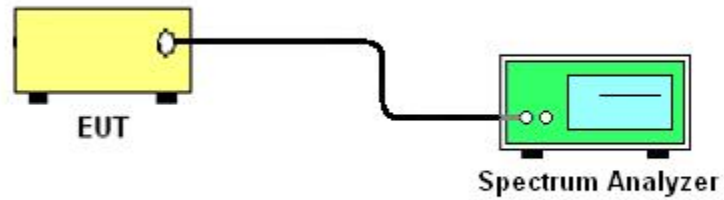
Wait until the trace is completed.

Find the peak value of the trace and place the analyzer marker on this peak.

Step 3:

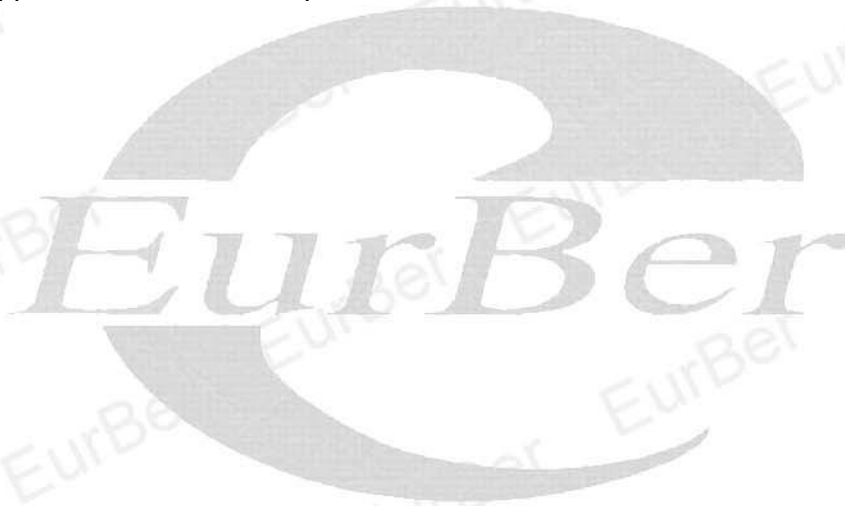
Use the 99 % bandwidth function of the spectrum analyzer to measure the Occupied Channel Bandwidth of the EUT.

3.3.4. Test Setup



3.3.5. Test Results

Refer to Appendix E of this test report.



3.4. Frequency Hopping Requirements

3.4.1. Dwell Time and Minimum Frequency Occupation Time

3.4.1.1. Limit of Dwell Time

SUBCLAUSE 4.3.1.4.3	
	LIMIT
Non-Adaptive Frequency Hopping Systems	15 ms within 15ms * hopping frequencies (N)
Adaptive Frequency Hopping Systems	0.4s within 0.4s * hopping frequencies (N)

Limit of Minimum Frequency Occupation Time

SUBCLAUSE 4.3.1.4.3	
	LIMIT
Normal Condition	Option1: The Minimum Frequency Occupation Time shall be equal to one dwell time within a period not exceeding four times the product of the dwell time per hop and the number of hopping frequencies in use.

Remark: This test item is not applicable to DSSS/OFDM device.

3.4.1.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

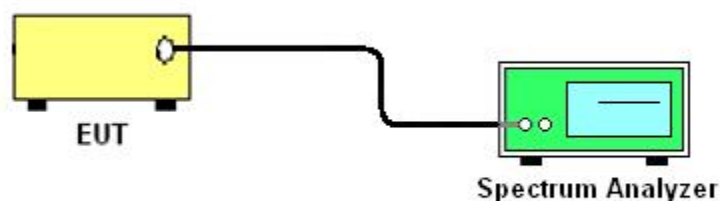
3.4.1.3. Test Procedures

1. The measurement shall be performed on a minimum of 2 hopping frequencies chosen arbitrary from the actual hopping sequence. The results as well as the frequencies on which the test was performed shall be recorded in the test report.
2. The measurement procedure follows the clause 5.4.4.2.1 of the ETSI EN 300 328 V2.2.2(2019-07)..
3. The analyzer shall be set as follows:

Center Frequency	Channel under test
Frequency Span	0 Hz
Resolution BW	300kHz
Video BW	300kHz
Detector	RMS
Sweep time	Equal to the Dwell Time × Minimum number of hopping frequencies (N)
Number of sweep points	30000
Trace Mode	Clear / Write
Trigger	Free Run

4. For accuracy measurement, the sweep time would be zoomed in and verify the dwell time which is from the dwell time per hop across the total number of hopping channel. Then record test result.
5. Make the following changes on the analyzer to get Minimum Frequency Occupation Time
Sweep time: Equal to $4 \times \text{Dwell Time} \times \text{Actual number of hopping frequencies in use}$

3.4.1.4. Test Setup



3.4.1.5. Test Results

Hopping Sequence is not applicable to DSSS/OFDM device.

3.4.2. Hopping Sequence

3.4.2.1. Limit of Hopping Sequence

SUBCLAUSE 4.3.1.4.3	
	LIMIT
Non-Adaptive Frequency Hopping Systems	N
Adaptive Frequency Hopping Systems	N Ch 70% of band

$N = 15$ or 15 divided by the minimum Hopping Frequency Separation in MHz, whichever is the greater.

Remark: Hopping Sequence is not applicable to DSSS/OFDM device.

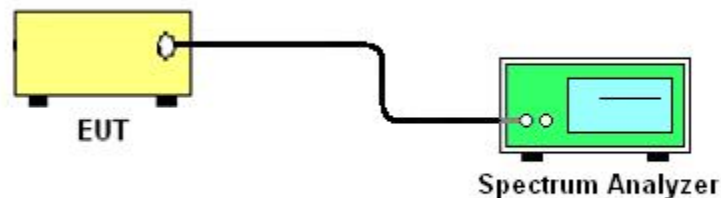
3.4.2.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

3.4.2.3. Test Procedures

The measurement procedure follows the clause 5.4.4.2.1 of the ETSI EN 300 328 V2.2.2(2019-07).

3.4.2.4. Test Setup



3.4.2.5. Test Results

Hopping Sequence is not applicable to DSSS/OFDM device.

3.4.3. Hopping Frequency Separation

3.4.3.1. Limit of Hopping Frequency Separation

SUBCLAUSE 4.3.1.5.3.	
	LIMIT
Non-Adaptive Frequency Hopping Systems	MAX [OBW, 100kHz]
Adaptive Frequency Hopping Systems	100kHz

Remark: Hopping Frequency Separation is not applicable to DSSS/OFDM device.

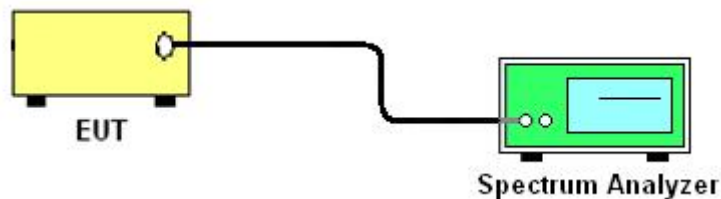
3.4.3.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

3.4.3.3. Test Procedures

1. These measurements shall only be performed at normal s.
 2. The measurement shall be performed on 2 adjacent hopping frequencies.
 3. The frequencies on which the test was performed shall be recorded.
- The measurement procedure follows the clause 5.4.5.2.1.3 Option 2 of the ETSI EN 300 328 V2.2.2(2019-07).

3.4.3.4. Test Setup

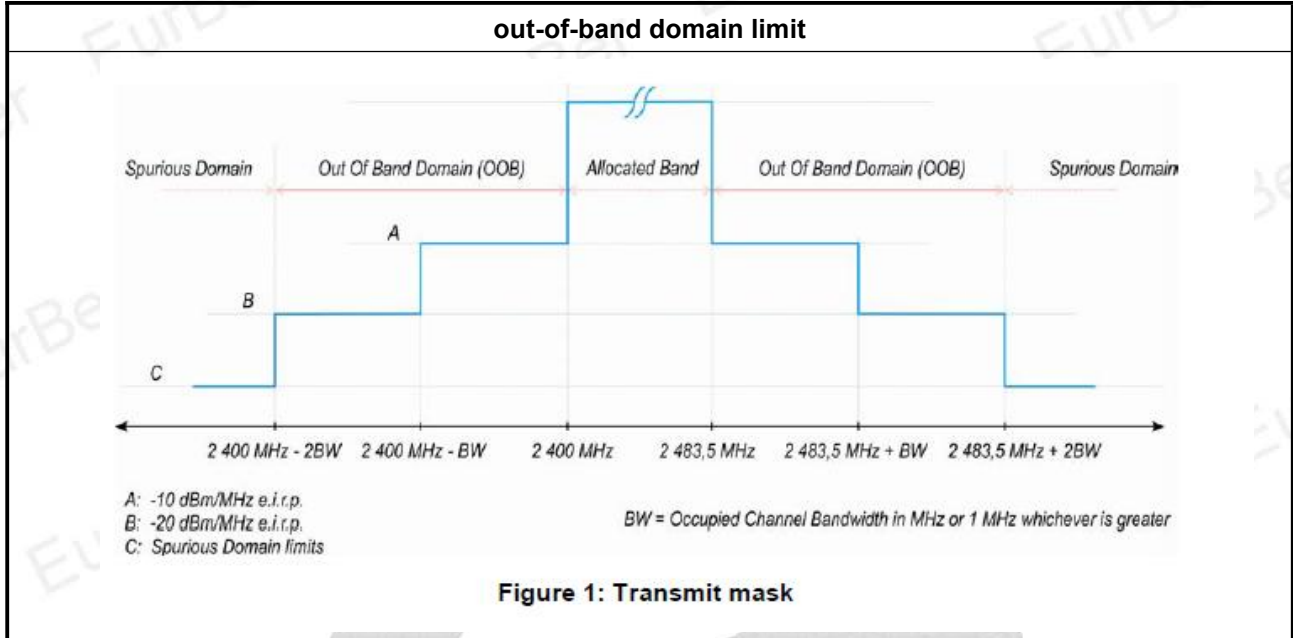


3.4.3.5. Test Results

Separation is not applicable to DSSS/OFDM device.

3.5. Transmitter unwanted emissions in the out-of-band domain

3.5.1. Transmitter unwanted emissions in the out-of-band domain limit



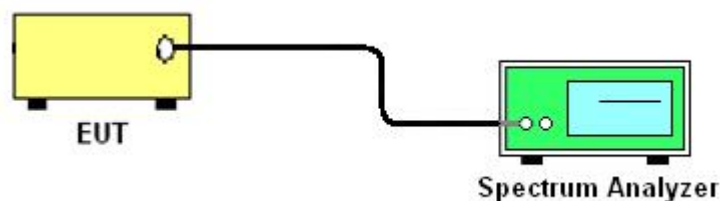
3.5.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

3.5.3. Test Procedures

1. The measurement procedure follows the clause 5.4.8.2 of the ETSI EN 300 328 V2.2.2(2019-07)..
2. These measurements shall only be performed at normal s.
3. For conducted measurements on devices with multiple transmit chains using the results for each of the transmit chains for the corresponding 1 MHz segments shall be added and compared with the transmit mask limit.

3.5.4. Test Setup



3.5.5. Test Results

Refer to Appendix F of this test report.

3.6. Transmitter spurious emissions

3.6.1. Limit of Transmitter spurious emissions

Spurious emission limits for transmitter:

SUBCLAUSE 4.3.1.10.3 and 4.3.2.9.3		
FREQUENCY RANGE	MAXIMUM POWER E.R.P.	BANDWIDTH
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 694 MHz	-54 dBm	100 kHz
694 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

3.6.2. Measuring Instruments

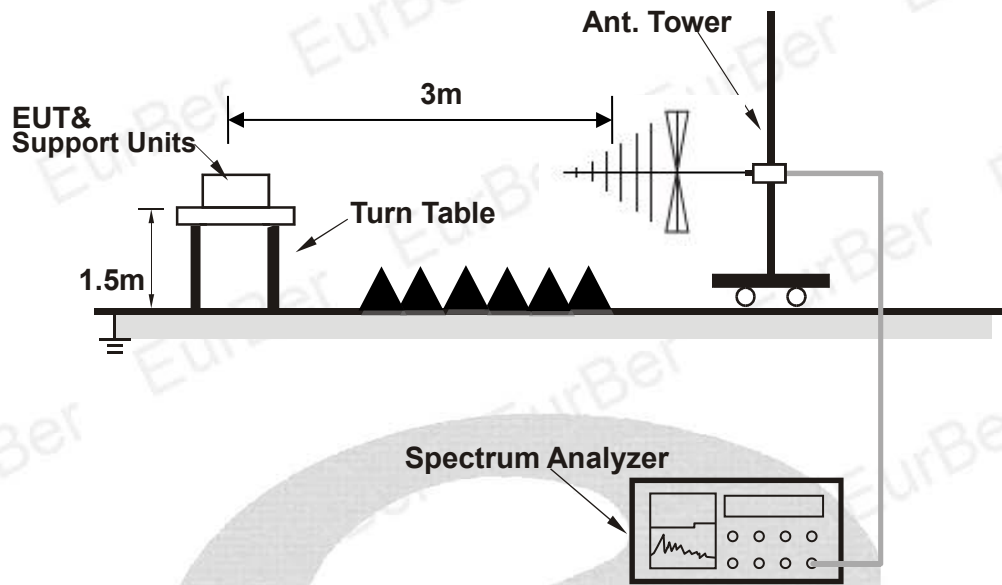
The measuring equipment is listed in the section 8 of this test report.

3.6.3. Test Procedures

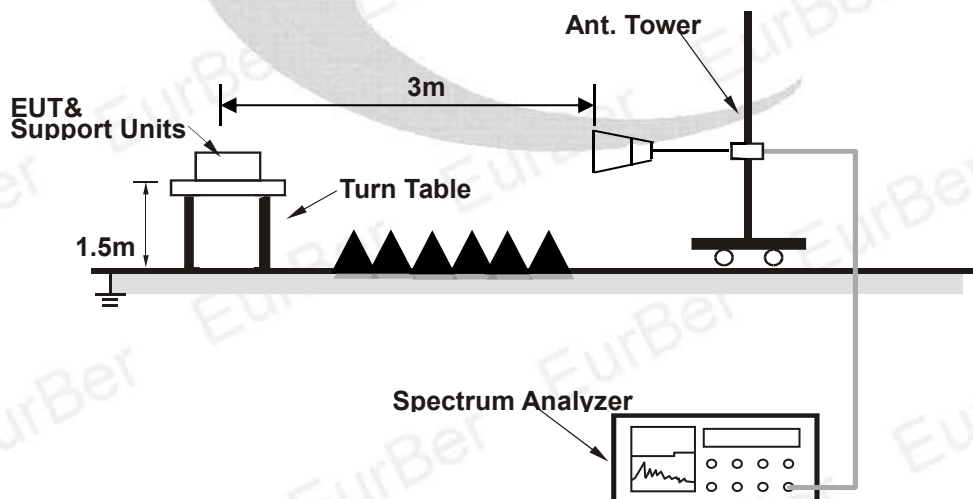
1. The measurement procedure follows the clause 5.4.9.2 of the ETSI EN 300 328 V2.2.2(2019-07).
2. The EUT was placed on a turntable with 1.5m height.
3. The test distance between the receiving antenna and the EUT is 3meter below 1GHz frequency range, and 3 meter which is in far field for measured frequency above 1GHz, while the receiving (test) antenna is kept at 1.5 meter height.
4. Set EUT in continuous transmitting with maximum output power.
5. The table was rotated from 0 to 360 degree to search the highest radiated emission.
6. Repeating step 3 and 4 for each polarization and channel to find the worst emission level.
7. The results obtained are compared to the limits in order to prove compliance with the requirement.

3.6.4. Test Setup

<Below 1GHz>



<Above 1GHz>



Test Results

Below 1G

EUT:	FMUSER Smart Hotel	Model:	Fmuser Magic Box
Temperature:	22.5°C	Relative humidity:	56%RH
Pressure:	101.8KPa	Test Voltage:	DC5V
Test mode:	WiFi: 802.11b/g/n		

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
100.3000	V	RX	-59.33	-54.00	5.34	
235.1200	V	RX	-42.27	-36.00	6.27	
300.2500	V	RX	-41.52	-36.00	5.52	
432.5000	V	RX	-41.87	-36.00	5.87	
500.1250	V	RX	-98.32	-54.00	5.32	
699.7000	V	RX	-40.63	-36.00	4.63	

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
75.3200	H	RX	-35.23	-30.00	5.23	
135.2000	H	RX	-35.87	-30.00	5.87	
266.4000	H	RX	-35.52	-30.00	5.52	
320.1000	H	RX	-40.12	-30.00	10.12	
432.6000	H	RX	-41.71	-30.00	11.71	
599.7000	H	RX	-38.05	-30.00	8.05	

Above 1G

EUT:	FMUSER Smart Hotel	Model:	Fmuser Magic Box
Temperature:	22.5℃	Relative humidity:	56%RH
Pressure:	101.8KPa	Test Voltage:	DC5V
Test mode:	WiFi: 802.11b/g/n		

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
1200.300	V	RX	-62.10	-57.00	5.10	
2350.120	V	RX	-62.63	-57.00	5.63	
3000.250	V	RX	-61.52	-57.00	4.52	
4320.500	V	RX	-61.39	-57.00	4.39	
5000.125	V	RX	-62.11	-57.00	5.11	
6500.700	V	RX	-61.66	-57.00	4.66	

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
1200.300	H	RX	-61.70	-57.00	4.70	
2350.120	H	RX	-60.36	-57.00	3.36	
3000.250	H	RX	-61.96	-57.00	4.96	
4320.500	H	RX	-61.13	-57.00	4.13	
5000.125	H	RX	-62.32	-57.00	5.32	
6990.700	H	RX	-62.60	-57.00	4.60	

3.7.Receiver spurious emissions

3.7.1. Limit of Receiver spurious emissions

FHSS spurious emission limits for receivers:

SUBCLAUSE 4.3.1.11.3		
Frequency Range	Maximum Power	Measurement Bandwidth
30 MHz to 1 GHz	-57 dBm	100kHz
1 GHz to 12,75 GHz	-47 dBm	1MHz

WLAN spurious emission limits for receivers

SUBCLAUSE 4.3.2.10.3		
Frequency Range	Maximum Power	Measurement Bandwidth
30 MHz to 1 GHz	-57 dBm	100kHz
1 GHz to 12,75 GHz	-47 dBm	1MHz

3.7.2. Measuring Instruments

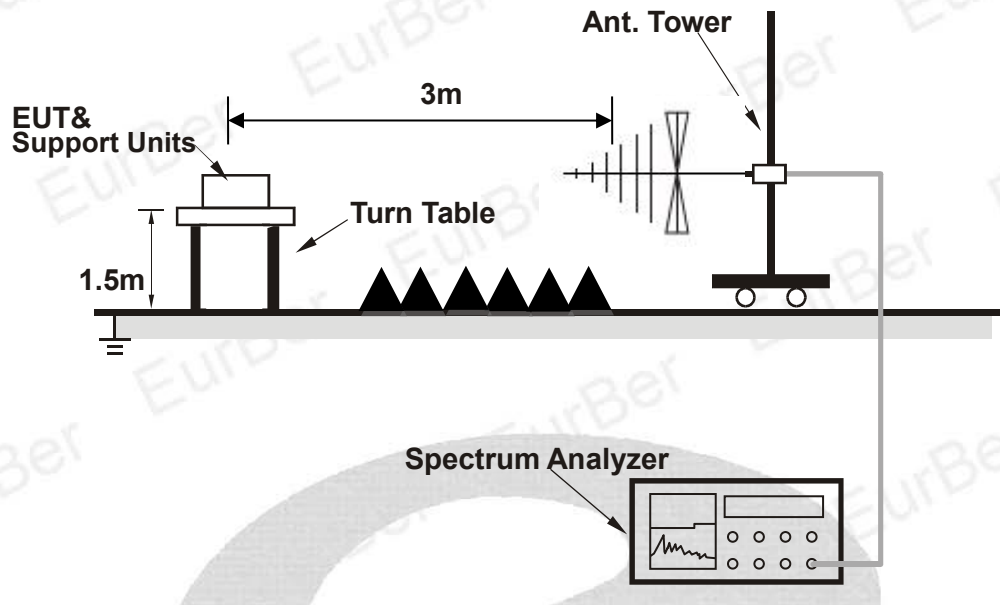
The measuring equipment is listed in the section 8 of this test report.

3.7.3. Test Procedures

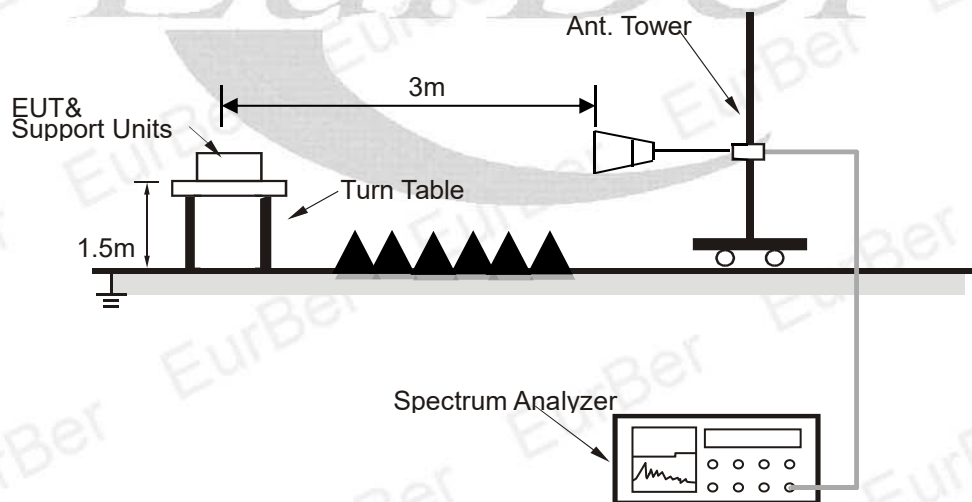
1. The measurement procedure follows the clause 5.4.10.2.2 of the ETSI EN 300 328 V2.2.2(2019-07).
2. The EUT was placed on a turntable with 1.5m height.
3. The test distance between the receiving antenna and the EUT is 3meter below 1GHz frequency range, and 3 meter which is in far field for measured frequency above 1GHz, while the receiving (test) antenna is kept at 1.5 meter height.
4. Set EUT in receiving mode.
5. The table was rotated from 0 to 360 degree to search the highest radiated emission.
6. Repeating step 3 and 4 for each polarization and channel to find the worst emission level.
7. The results obtained are compared to the limits in order to prove compliance with the requirement.

3.7.4. Test Setup

<Below 1GHz>



<Above 1GHz>



Test Results

Below 1G

EUT:	FMUSER Smart Hotel	Model:	Fmuser Magic Box
Temperature:	22.5°C	Relative humidity:	56%RH
Pressure:	101.8KPa	Test Voltage:	DC5V
Test mode:	WiFi: 802.11b/g/n		

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
100.3000	V	RX	-62.12	-57.00	5.12	
235.1200	V	RX	-65.27	-57.00	7.27	
300.2500	V	RX	-59.26	-57.00	2.26	
432.5000	V	RX	-60.87	-57.00	3.57	
500.1250	V	RX	-60.32	-57.00	3.32	
699.7000	V	RX	-61.63	-57.00	4.63	

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
75.3200	H	RX	-62.12	-57.00	5.12	
135.2000	H	RX	-65.27	-57.00	9.27	
266.4000	H	RX	-62.26	-57.00	5.26	
320.1000	H	RX	-60.87	-57.00	3.57	
432.6000	H	RX	-60.32	-57.00	3.32	
599.7000	H	RX	-61.63	-57.00	4.63	

Above 1G

EUT:	FMUSER Smart Hotel	Model:	Fmuser Magic Box
Temperature:	22.5℃	Relative humidity:	56%RH
Pressure:	101.8KPa	Test Voltage:	DC5V
Test mode:	WiFi: 802.11b/g/n		

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
1000.3000	V	RX	-52.12	-47.00	5.12	
2350.1200	V	RX	-55.27	-47.00	7.27	
3000.2500	V	RX	-62.26	-47.00	5.26	
4320.5000	V	RX	-50.87	-47.00	3.57	
5000.1250	V	RX	-51.32	-47.00	4.32	
6500.7000	V	RX	-51.63	-47.00	4.63	

Frequency (MHz)	ANT H/V	TX/RX	Measured (dbm)	Limits (dbm)	Margins	Note
1300.300	H	RX	-52.18	-47.00	5.18	
2300.120	H	RX	-51.20	-47.00	4.20	
3000.250	H	RX	-52.06	-47.00	5.06	
4400.500	H	RX	-51.80	-47.00	4.80	
5100.125	H	RX	-51.32	-47.00	4.32	
6520.700	H	RX	-51.43	-47.00	5.43	

3.8.Receiver Blocking Test

3.8.1. Limit of Receiver Blocking Test

Receiver category 1

- Adaptive equipment with maximum RF output power > 10dBm e.i.r.p. (WiFi)

Wanted signal mean power 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 note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × log ₁₀ (OCBW)) or -74 dBm whichever is less (see note 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.			

Receiver category 2

1. Non-adaptive equipment with MU 1% ~ 10%
2. Adaptive equipment with Maximum RF output power < 10dBm e.i.r.p. (Bluetooth)

Wanted signal mean power 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) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 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.			

Receiver category 3

1. Non-adaptive equipment with MU < 1%
2. Adaptive equipment with Maximum RF output power < 0dBm e.i.r.p. (Others)

Wanted signal mean power 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) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 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 $P_{min} + 30$ 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.			

3.8.2. Measuring Instruments

The measuring equipment is listed in the section 8 of this test report.

3.8.3. Test Procedures

1. The measurement procedure follows the clause 5.4.11.2 of the ETSI EN 300 328 V2.2.2(2019-07)..
2. For systems using multiple receive chains only one chain (antenna port) need to be tested. All other receiver inputs shall be terminated.

3.8.4. Test Setup

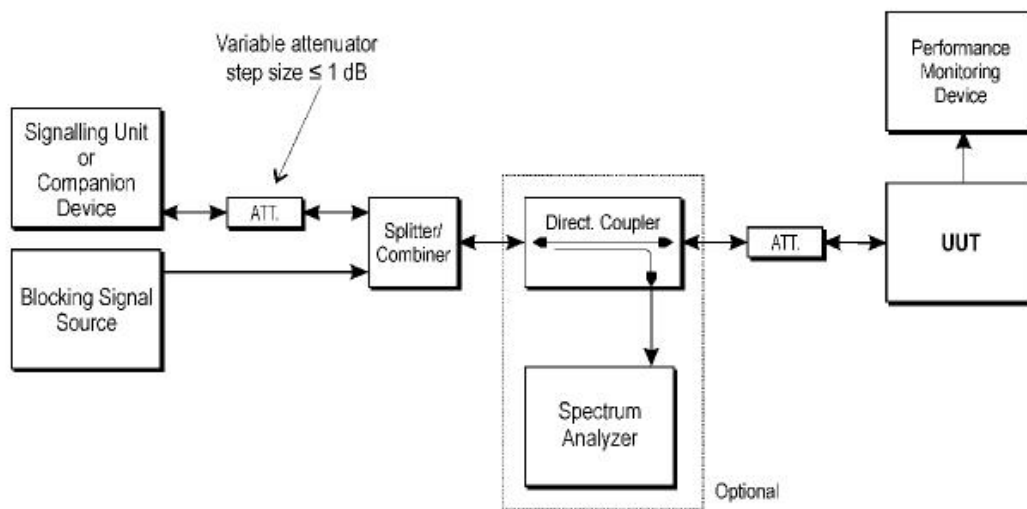


Figure 6: Test Set-up for receiver blocking

3.8.5. Test Results of Receiver Blocking

P_{min} = Companion Device or CMW270 burst power - path cable loss - attenuator.

Note pre-scan all test mode found worst case at

Mode	Worst Case
WIFI	802.11b

Therefore only the worst mode test results are displayed.

TestMode	Antenna	Channel	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
DH5	Ant1	2402	---	-66.8	2300	-31.23	0.00	≤10	PASS
			---	-66.8	2380	-31.23	0.00	≤10	PASS
		2480	---	-66.79	2504	-31.23	0.00	≤10	PASS
			---	-66.79	2584	-31.23	0.00	≤10	PASS
2DH5	Ant1	2402	---	-65.37	2300	-31.23	0.99	≤10	PASS
			---	-65.37	2380	-31.23	0.00	≤10	PASS
		2480	---	-65.36	2504	-31.23	0.99	≤10	PASS
			---	-65.36	2584	-31.23	0.00	≤10	PASS
3DH5	Ant1	2402	---	-65.41	2300	-31.23	0.20	≤10	PASS
			---	-65.41	2380	-31.23	0.00	≤10	PASS
		2480	---	-65.39	2504	-31.23	0.00	≤10	PASS
			---	-65.39	2584	-31.23	0.00	≤10	PASS

TestMode	Antenna	Channel	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
11B	Ant1	2412	---	-71.23	2300	-31.23	2.40	≤10	PASS
			---	-71.23	2330	-31.23	0.40	≤10	PASS
			---	-71.23	2360	-31.23	1.60	≤10	PASS
			---	-65.23	2380	-31.23	0.30	≤10	PASS
		2472	---	-65.23	2504	-31.23	0.90	≤10	PASS
			---	-71.23	2524	-31.23	2.00	≤10	PASS
			---	-71.23	2584	-31.23	1.20	≤10	PASS
			---	-71.23	2674	-31.23	0.60	≤10	PASS

4. Adaptivity Test

4.1. Adaptivity

4.1.1. Limit of Adaptivity

Only for adaptive systems and RF Output Power > 10 dBm

LBT based Detect and Avoid (Load Based Equipment with spectrum sharing mechanism IEEE Std.):

LBT based spectrum sharing mechanism may implement in IEEE Std. 802.11-2012 clauses 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE Std. IEEE 802.15.4-2011, clause 4, clause 5 and clause 8.

Short Control Signaling Transmissions shall have a maximum TxOn / (TxOn + TxOff) ratio of 10 % within an observation period of 50 ms.

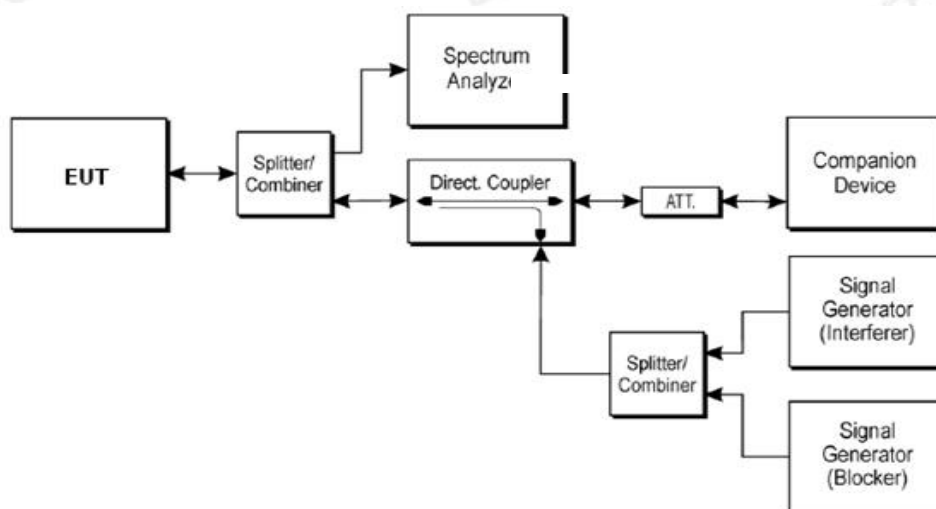
4.1.2. Measurement Instruments

The measuring equipment is listed in the section 8 of this test report.

4.1.3. Test Procedures

1. The measurement procedure follows the clause 5.4.6.2.1 of the ETSI EN 300 328 V2.2.2(2019-07)..
2. For conducted measurements on devices with multiple transmit chains and receive chains. The power splitter/combiner shall be used to combine all the transmit/receive chains (antenna outputs) into a single test point. The insertion loss of the power splitter/combiner shall be taken into account.

4.1.4. Test Setup



4.1.5. Support Unit used in test configuration and system

Item	Instrument	Manufacturer	Model No.	Characteristics
1.	WLAN AP	TP-LINK	TL-WR842N	AP
2.	Notebook	Lenovo	V30-15ISK	FTP / LAN

4.1.6. Test Results of Adaptivity Test

Equipment Information:	
☐	Non-Adaptive Equipment
	The maximum RF output power (E.I.R.P.) dBm:
	The maximum (Corresponding) Duty Cycle : %
☒	Adaptive Equipment without the possibility to switch to a non-adaptive mode:
☒	The equipment has implemented an LBT based DAA mechanism:
	☐ 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 equipment has implemented an non-LBT based DAA mechanism
☐	The equipment can operate in more than one adaptive mode
☐	Adaptive Frequency Hopping using other forms of DAA (non-LBT based)
☐	Adaptive Equipment which can also operate in non-adaptive mode

	Modulation	Data Rate (single)	Nominal Bandwidth	Channel	Test Frequency	Test Result
WIFI 2.4GHz	802.11b	1Mbit/s	20MHz	01	2412 MHz	PASS
				13	2472 MHz	PASS
	802.11g	6Mbit/s	20MHz	01	2412 MHz	PASS
				13	2472 MHz	PASS
	802.11n HT20	6.5Mbit/s	20MHz	01	2412 MHz	PASS
				13	2472 MHz	PASS
	802.11n HT40	6.5Mbit/s	40MHz	03	2422 MHz	PASS
				11	2462 MHz	PASS

Note: The CCA time is declared by the manufacturer.

4.1.7. Test Plots of Adaptivity Test

Refer to Appendix G of this test report.

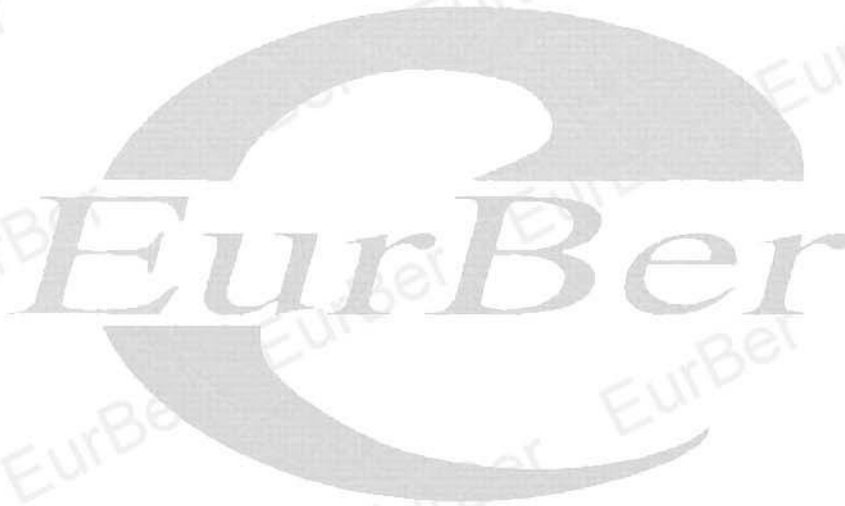
5. Geo-location Capability

5.1. Definition and Requirement

Geo-location capability is a feature of the equipment to determine its geographical location with the purpose to configure itself according to the regulatory requirements applicable at the geographical location where it operates.

The geo-location capability may be present in the equipment or in an external device (temporary) associated with the equipment operating at the same geographical location during the initial power up of the equipment. The geographical location may also be available in equipment already installed and operating at the same geographical location.

The geographical location determined by the equipment shall not be accessible to the user.



6. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070788	2024-12-19	2025-12-18	Conducted
Power Sensor	Keysight	U2021XA	MY56510025	2024-12-19	2025-12-18	Conducted
Power Sensor	Keysight	U2021XA	MY57030005	2024-12-19	2025-12-18	Conducted
Power Sensor	Keysight	U2021XA	MY56510018	2024-12-19	2025-12-18	Conducted
Power Sensor	Keysight	U2021XA	MY56480002	2024-12-19	2025-12-18	Conducted
Thermal Chamber	Howkin	UHL-34	19111801	2024-12-18	2025-12-17	Conducted
Base Station	R&S	CMW 270	101231	2024-12-19	2025-12-18	Conducted
Signal Generator (Interferer)	Keysight	N5182B	MY56200384	2024-12-19	2025-12-18	Conducted
Signal Generator (Blocker)	Keysight	N5171B	MY56200661	2024-12-19	2025-12-18	Conducted

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV 30	103728	2024-12-19	2025-12-18	Radiation
EMI Test Receiver	R&S	ESR3	102144	2024-12-20	2025-12-19	Radiation
Amplifier	Sonoma	310	363917	2024-12-19	2025-12-18	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2024-12-19	2025-12-18	Radiation
Bilog Antenna	Schwarzbeck	VULB 9168	9168-757	2024-09-17	2026-09-16	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	1677	2024-02-12	2026-02-11	Radiation
Test Software	Audix	E3	6.111221a	N/A	N/A	Radiation
Filter	Micro-Tronics	BRM 50702	G266	N/A	N/A	Radiation

Note:

- Test equipment calibration is traceable to the procedure of ISO17025.
- N/A: No Calibration Required.

7. Uncertainty Evaluation

Test Item	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	$\pm 71.333\text{Hz}$	(1)
RF output power, conducted	$\pm 0.78\text{ dB}$	(1)
Power density, conducted	$\pm 2.02\text{dB}$	(1)
Radiated emissions 30MHz-1000MHz	2.49 dB	(1)
Radiated emissions 1GHz-18GHz	3.24 dB	(1)
Radiated emissions 18GHz-40GHz	4.08 dB	(1)

Test Item	Measurement Uncertainty	Notes
Adaptivity	$\pm 0.7\text{dB}$	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Appendix A):RF Output Power

Test Result

WLAN

	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	11B	Ant1	2412	18.60	20	PASS
			2442	18.17	20	PASS
			2472	18.22	20	PASS
	11G	Ant1	2412	17.29	20	PASS
			2442	17.14	20	PASS
			2472	17.33	20	PASS
	11N20SISO	Ant1	2412	16.68	20	PASS
			2442	16.60	20	PASS
			2472	16.71	20	PASS
	11N40SISO	Ant1	2422	16.23	20	PASS
			2442	16.63	20	PASS
			2462	17.11	20	PASS
LTV	11B	Ant1	2412	18.29	20	PASS
			2442	18.55	20	PASS
			2472	18.71	20	PASS
	11G	Ant1	2412	17.69	20	PASS
			2442	17.60	20	PASS
			2472	17.54	20	PASS
	11N20SISO	Ant1	2412	16.83	20	PASS
			2442	16.48	20	PASS
			2472	16.63	20	PASS
	11N40SISO	Ant1	2422	16.47	20	PASS
			2442	16.58	20	PASS
			2462	16.50	20	PASS
HTNV	11B	Ant1	2412	18.57	20	PASS
			2442	18.54	20	PASS
			2472	18.47	20	PASS
	11G	Ant1	2412	17.78	20	PASS
			2442	17.80	20	PASS
			2472	17.88	20	PASS
	11N20SISO	Ant1	2412	16.78	20	PASS
			2442	16.67	20	PASS
			2472	16.69	20	PASS
	11N40SISO	Ant1	2422	16.51	20	PASS
			2442	16.72	20	PASS
			2462	16.93	20	PASS

Appendix B): Maximum Power Spectral Density Level

Test Result

WLAN

TestMode	Antenna	Channel	PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
11B	Ant1	2412	9.63	10	PASS
		2442	9.66	10	PASS
		2472	9.36	10	PASS
11G	Ant1	2412	6.25	10	PASS
		2442	6.08	10	PASS
		2472	6.36	10	PASS
11N20SISO	Ant1	2412	5.12	10	PASS
		2442	5.00	10	PASS
		2472	5.19	10	PASS
11N40SISO	Ant1	2422	1.95	10	PASS
		2442	2.25	10	PASS
		2462	2.49	10	PASS

Appendix E): Occupied Channel Bandwidth

WLAN

TestMode	Antenna	Channel	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.027	2404.4360	2419.4630	2400 to 2483.5	PASS
		2442	15.039	2434.4427	2449.4817	2400 to 2483.5	PASS
		2472	15.050	2464.4212	2479.4712	2400 to 2483.5	PASS
11G	Ant1	2412	16.600	2403.6725	2420.2725	2400 to 2483.5	PASS
		2442	16.601	2433.6732	2450.2742	2400 to 2483.5	PASS
		2472	16.584	2463.6763	2480.2603	2400 to 2483.5	PASS
11N20SISO	Ant1	2412	17.726	2403.1022	2420.8282	2400 to 2483.5	PASS
		2442	17.730	2433.1000	2450.8300	2400 to 2483.5	PASS
		2472	17.727	2463.0969	2480.8239	2400 to 2483.5	PASS
11N40SISO	Ant1	2422	36.289	2403.7912	2440.0802	2400 to 2483.5	PASS
		2442	36.282	2423.8011	2460.0831	2400 to 2483.5	PASS
		2462	36.271	2443.8013	2480.0723	2400 to 2483.5	PASS

Appendix F): Transmitter unwanted Out Of Band domain

Test Result

WIFI

TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	2370.446	-43.38	-20.00	PASS
			2370.473	-43.60	-20.00	PASS
			2371.473	-43.85	-20.00	PASS
			2372.473	-43.61	-20.00	PASS
			2373.473	-43.28	-20.00	PASS
			2374.473	-43.77	-20.00	PASS
			2375.473	-43.27	-20.00	PASS
			2376.473	-44.09	-20.00	PASS
			2377.473	-43.32	-20.00	PASS
			2378.473	-43.37	-20.00	PASS
			2379.473	-43.91	-20.00	PASS
			2380.473	-43.91	-20.00	PASS
			2381.473	-43.64	-20.00	PASS
			2382.473	-44.02	-20.00	PASS
			2383.473	-43.53	-20.00	PASS
			2384.473	-44.04	-20.00	PASS
			2385.473	-42.91	-10.00	PASS
			2385.5	-42.96	-10.00	PASS
			2386.5	-42.69	-10.00	PASS
			2387.5	-43.11	-10.00	PASS
			2388.5	-43.86	-10.00	PASS
			2389.5	-43.76	-10.00	PASS
			2390.5	-43.41	-10.00	PASS
			2391.5	-43.20	-10.00	PASS
			2392.5	-42.93	-10.00	PASS
			2393.5	-41.91	-10.00	PASS
			2394.5	-41.60	-10.00	PASS
			2395.5	-42.16	-10.00	PASS
			2396.5	-42.18	-10.00	PASS
			2397.5	-40.44	-10.00	PASS
			2398.5	-37.40	-10.00	PASS
			2399.5	-33.94	-10.00	PASS
			2484	-44.16	-10.00	PASS
			2485	-44.29	-10.00	PASS
			2486	-44.34	-10.00	PASS

			2487	-44.31	-10.00	PASS
			2488	-44.42	-10.00	PASS
			2489	-44.72	-10.00	PASS
			2490	-44.64	-10.00	PASS
			2491	-44.80	-10.00	PASS
			2492	-44.41	-10.00	PASS
			2493	-44.74	-10.00	PASS
			2494	-44.97	-10.00	PASS
			2495	-44.49	-10.00	PASS
			2496	-44.23	-10.00	PASS
			2497	-44.39	-10.00	PASS
			2498	-44.36	-10.00	PASS
			2498.027	-44.25	-10.00	PASS
			2499.027	-44.51	-20.00	PASS
			2500.027	-44.63	-20.00	PASS
			2501.027	-44.85	-20.00	PASS
			2502.027	-44.46	-20.00	PASS
			2503.027	-44.90	-20.00	PASS
			2504.027	-44.99	-20.00	PASS
			2505.027	-44.32	-20.00	PASS
			2506.027	-44.71	-20.00	PASS
			2507.027	-44.55	-20.00	PASS
			2508.027	-44.67	-20.00	PASS
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			2511.027	-44.50	-20.00	PASS
			2512.027	-44.34	-20.00	PASS
			2513.027	-44.46	-20.00	PASS
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			2371.45	-44.15	-20.00	PASS
			2372.45	-43.84	-20.00	PASS
			2373.45	-43.67	-20.00	PASS
			2374.45	-43.89	-20.00	PASS
			2375.45	-44.47	-20.00	PASS
			2376.45	-43.79	-20.00	PASS
			2377.45	-43.99	-20.00	PASS
			2378.45	-44.10	-20.00	PASS
			2379.45	-44.26	-20.00	PASS
			2380.45	-44.27	-20.00	PASS
			2381.45	-43.55	-20.00	PASS

		2382.45	-44.69	-20.00	PASS
		2383.45	-44.16	-20.00	PASS
		2384.45	-44.52	-20.00	PASS
		2385.45	-44.72	-10.00	PASS
		2385.5	-44.51	-10.00	PASS
		2386.5	-44.67	-10.00	PASS
		2387.5	-44.59	-10.00	PASS
		2388.5	-44.69	-10.00	PASS
		2389.5	-44.71	-10.00	PASS
		2390.5	-44.37	-10.00	PASS
		2391.5	-44.49	-10.00	PASS
		2392.5	-44.53	-10.00	PASS
		2393.5	-44.51	-10.00	PASS
		2394.5	-44.65	-10.00	PASS
		2395.5	-44.89	-10.00	PASS
		2396.5	-44.72	-10.00	PASS
		2397.5	-44.64	-10.00	PASS
		2398.5	-44.62	-10.00	PASS
		2399.5	-44.75	-10.00	PASS
		2484	-32.62	-10.00	PASS
		2485	-35.90	-10.00	PASS
		2486	-36.85	-10.00	PASS
		2487	-38.63	-10.00	PASS
		2488	-40.48	-10.00	PASS
		2489	-41.59	-10.00	PASS
		2490	-41.35	-10.00	PASS
		2491	-42.67	-10.00	PASS
		2492	-43.94	-10.00	PASS
		2493	-43.05	-10.00	PASS
		2494	-43.40	-10.00	PASS
		2495	-44.27	-10.00	PASS
		2496	-44.03	-10.00	PASS
		2497	-43.62	-10.00	PASS
		2498	-43.61	-10.00	PASS
		2498.05	-43.43	-10.00	PASS
		2499.05	-43.95	-20.00	PASS
		2500.05	-44.19	-20.00	PASS
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		2502.05	-44.62	-20.00	PASS
		2503.05	-44.18	-20.00	PASS
		2504.05	-44.80	-20.00	PASS
		2505.05	-44.21	-20.00	PASS

			2506.05	-44.11	-20.00	PASS
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			2508.05	-44.29	-20.00	PASS
			2509.05	-44.53	-20.00	PASS
			2510.05	-44.08	-20.00	PASS
			2511.05	-44.55	-20.00	PASS
			2512.05	-44.58	-20.00	PASS
			2513.05	-43.99	-20.00	PASS
			2513.1	-44.42	-20.00	PASS
11G	Ant1	2412	2366.9	-42.23	-20.00	PASS
			2367.3	-41.96	-20.00	PASS
			2367.9	-41.82	-20.00	PASS
			2368.9	-41.49	-20.00	PASS
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			2372.9	-41.72	-20.00	PASS
			2373.9	-41.06	-20.00	PASS
			2374.9	-41.01	-20.00	PASS
			2375.9	-40.89	-20.00	PASS
			2376.9	-39.41	-20.00	PASS
			2377.9	-40.21	-20.00	PASS
			2378.9	-39.72	-20.00	PASS
			2379.9	-38.57	-20.00	PASS
			2380.9	-37.66	-20.00	PASS
			2381.9	-38.46	-20.00	PASS
			2382.9	-38.47	-20.00	PASS
			2383.5	-37.53	-10.00	PASS
			2383.9	-36.90	-10.00	PASS
			2384.5	-37.38	-10.00	PASS
			2385.5	-35.15	-10.00	PASS
			2386.5	-35.25	-10.00	PASS
			2387.5	-35.16	-10.00	PASS
			2388.5	-34.75	-10.00	PASS
			2389.5	-33.83	-10.00	PASS
			2390.5	-33.86	-10.00	PASS
			2391.5	-33.59	-10.00	PASS
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			2395.5	-31.05	-10.00	PASS
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		2398.5	-28.05	-10.00	PASS
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		2484	-43.92	-10.00	PASS
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		2489	-43.66	-10.00	PASS
		2490	-43.24	-10.00	PASS
		2491	-43.69	-10.00	PASS
		2492	-43.78	-10.00	PASS
		2493	-43.92	-10.00	PASS
		2494	-43.46	-10.00	PASS
		2495	-43.73	-10.00	PASS
		2496	-43.52	-10.00	PASS
		2497	-43.84	-10.00	PASS
		2498	-43.87	-10.00	PASS
		2499	-43.72	-10.00	PASS
		2499.6	-44.05	-10.00	PASS
		2500	-43.84	-10.00	PASS
		2500.6	-43.72	-20.00	PASS
		2501.6	-43.91	-20.00	PASS
		2502.6	-43.87	-20.00	PASS
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		2505.6	-43.93	-20.00	PASS
		2506.6	-43.81	-20.00	PASS
		2507.6	-43.87	-20.00	PASS
		2508.6	-44.06	-20.00	PASS
		2509.6	-43.80	-20.00	PASS
		2510.6	-43.86	-20.00	PASS
		2511.6	-43.62	-20.00	PASS
		2512.6	-43.87	-20.00	PASS
		2513.6	-43.85	-20.00	PASS
		2514.6	-43.74	-20.00	PASS
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		2472	2366.916	-42.63	-20.00
	2367.332		-42.26	-20.00	PASS
	2367.916		-42.39	-20.00	PASS

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		2369.916	-42.39	-20.00	PASS
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		2372.916	-42.67	-20.00	PASS
		2373.916	-42.22	-20.00	PASS
		2374.916	-42.55	-20.00	PASS
		2375.916	-42.58	-20.00	PASS
		2376.916	-42.53	-20.00	PASS
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		2379.916	-42.67	-20.00	PASS
		2380.916	-42.76	-20.00	PASS
		2381.916	-42.43	-20.00	PASS
		2382.916	-42.71	-20.00	PASS
		2383.5	-42.41	-10.00	PASS
		2383.916	-42.92	-10.00	PASS
		2384.5	-42.38	-10.00	PASS
		2385.5	-42.81	-10.00	PASS
		2386.5	-42.50	-10.00	PASS
		2387.5	-42.72	-10.00	PASS
		2388.5	-42.46	-10.00	PASS
		2389.5	-42.57	-10.00	PASS
		2390.5	-42.25	-10.00	PASS
		2391.5	-42.49	-10.00	PASS
		2392.5	-42.21	-10.00	PASS
		2393.5	-42.23	-10.00	PASS
		2394.5	-42.40	-10.00	PASS
		2395.5	-43.04	-10.00	PASS
		2396.5	-42.79	-10.00	PASS
		2397.5	-42.76	-10.00	PASS
		2398.5	-43.12	-10.00	PASS
		2399.5	-42.11	-10.00	PASS
		2484	-23.56	-10.00	PASS
		2485	-27.30	-10.00	PASS
		2486	-30.95	-10.00	PASS
		2487	-28.61	-10.00	PASS
		2488	-31.73	-10.00	PASS
		2489	-30.13	-10.00	PASS
		2490	-32.84	-10.00	PASS
		2491	-32.68	-10.00	PASS
		2492	-32.86	-10.00	PASS

			2493	-35.45	-10.00	PASS
			2494	-34.54	-10.00	PASS
			2495	-38.19	-10.00	PASS
			2496	-37.90	-10.00	PASS
			2497	-40.00	-10.00	PASS
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			2499	-40.48	-10.00	PASS
			2499.584	-41.05	-10.00	PASS
			2500	-40.86	-10.00	PASS
			2500.584	-40.38	-20.00	PASS
			2501.584	-42.32	-20.00	PASS
			2502.584	-42.21	-20.00	PASS
			2503.584	-41.71	-20.00	PASS
			2504.584	-42.70	-20.00	PASS
			2505.584	-42.56	-20.00	PASS
			2506.584	-42.92	-20.00	PASS
			2507.584	-43.13	-20.00	PASS
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			2509.584	-43.05	-20.00	PASS
			2510.584	-42.98	-20.00	PASS
			2511.584	-43.02	-20.00	PASS
			2512.584	-43.41	-20.00	PASS
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			2365.774	-40.74	-20.00	PASS
			2366.774	-40.85	-20.00	PASS
			2367.774	-40.59	-20.00	PASS
			2368.774	-40.73	-20.00	PASS
			2369.774	-41.13	-20.00	PASS
			2370.774	-39.96	-20.00	PASS
			2371.774	-41.66	-20.00	PASS
			2372.774	-40.87	-20.00	PASS
			2373.774	-41.08	-20.00	PASS
			2374.774	-40.38	-20.00	PASS
			2375.774	-40.36	-20.00	PASS
			2376.774	-40.55	-20.00	PASS
			2377.774	-40.27	-20.00	PASS

		2378.774	-39.78	-20.00	PASS
		2379.774	-39.56	-20.00	PASS
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		2382.774	-35.96	-10.00	PASS
		2383.5	-35.34	-10.00	PASS
		2384.5	-35.31	-10.00	PASS
		2385.5	-36.24	-10.00	PASS
		2386.5	-36.17	-10.00	PASS
		2387.5	-34.31	-10.00	PASS
		2388.5	-31.49	-10.00	PASS
		2389.5	-30.09	-10.00	PASS
		2390.5	-30.21	-10.00	PASS
		2391.5	-31.71	-10.00	PASS
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		2393.5	-30.32	-10.00	PASS
		2394.5	-31.49	-10.00	PASS
		2395.5	-29.16	-10.00	PASS
		2396.5	-27.64	-10.00	PASS
		2397.5	-25.29	-10.00	PASS
		2398.5	-24.58	-10.00	PASS
		2399.5	-23.97	-10.00	PASS
		2484	-42.81	-10.00	PASS
		2485	-42.63	-10.00	PASS
		2486	-43.22	-10.00	PASS
		2487	-42.84	-10.00	PASS
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		2489	-43.24	-10.00	PASS
		2490	-43.03	-10.00	PASS
		2491	-43.06	-10.00	PASS
		2492	-43.48	-10.00	PASS
		2493	-43.07	-10.00	PASS
		2494	-43.12	-10.00	PASS
		2495	-43.44	-10.00	PASS
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		2497	-43.56	-10.00	PASS
		2498	-43.44	-10.00	PASS
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		2500.726	-43.10	-10.00	PASS
		2501	-43.43	-10.00	PASS

			2501.726	-43.10	-20.00	PASS
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			2503.726	-43.70	-20.00	PASS
			2504.726	-43.29	-20.00	PASS
			2505.726	-43.70	-20.00	PASS
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			2507.726	-43.97	-20.00	PASS
			2508.726	-44.15	-20.00	PASS
			2509.726	-44.04	-20.00	PASS
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			2511.726	-43.66	-20.00	PASS
			2512.726	-44.10	-20.00	PASS
			2513.726	-44.09	-20.00	PASS
			2514.726	-43.94	-20.00	PASS
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			2369.773	-42.88	-20.00	PASS
			2370.773	-42.39	-20.00	PASS
			2371.773	-42.88	-20.00	PASS
			2372.773	-42.39	-20.00	PASS
			2373.773	-42.54	-20.00	PASS
			2374.773	-42.65	-20.00	PASS
			2375.773	-42.60	-20.00	PASS
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			2377.773	-42.55	-20.00	PASS
			2378.773	-42.71	-20.00	PASS
			2379.773	-42.16	-20.00	PASS
			2380.773	-41.63	-20.00	PASS
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			2382.5	-41.83	-10.00	PASS
			2382.773	-42.42	-10.00	PASS
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		2385.5	-42.67	-10.00	PASS
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		2387.5	-42.45	-10.00	PASS
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		2389.5	-42.32	-10.00	PASS
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		2494	-32.79	-10.00	PASS
		2495	-34.41	-10.00	PASS
		2496	-35.93	-10.00	PASS
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		2498	-39.93	-10.00	PASS
		2499	-40.62	-10.00	PASS
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		2505.727	-42.49	-20.00	PASS
		2506.727	-42.16	-20.00	PASS
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		2508.727	-43.15	-20.00	PASS

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			2334.211	-42.14	-20.00	PASS
			2335.211	-42.72	-20.00	PASS
			2336.211	-42.11	-20.00	PASS
			2337.211	-42.04	-20.00	PASS
			2338.211	-42.21	-20.00	PASS
			2339.211	-41.81	-20.00	PASS
			2340.211	-42.29	-20.00	PASS
			2341.211	-42.17	-20.00	PASS
			2342.211	-41.89	-20.00	PASS
			2343.211	-41.67	-20.00	PASS
			2344.211	-41.52	-20.00	PASS
			2345.211	-41.53	-20.00	PASS
			2346.211	-41.16	-20.00	PASS
			2347.211	-40.54	-20.00	PASS
			2348.211	-39.84	-20.00	PASS
			2349.211	-40.32	-20.00	PASS
			2350.211	-39.95	-20.00	PASS
			2351.211	-39.03	-20.00	PASS
			2352.211	-39.45	-20.00	PASS
			2353.211	-38.57	-20.00	PASS
			2354.211	-38.86	-20.00	PASS
			2355.211	-38.95	-20.00	PASS
			2356.211	-39.63	-20.00	PASS
			2357.211	-39.07	-20.00	PASS

		2358.211	-39.67	-20.00	PASS
		2359.211	-38.07	-20.00	PASS
		2360.211	-38.32	-20.00	PASS
		2361.211	-38.01	-20.00	PASS
		2362.211	-37.66	-20.00	PASS
		2363.211	-37.92	-20.00	PASS
		2364.211	-36.08	-10.00	PASS
		2364.5	-36.19	-10.00	PASS
		2365.5	-37.04	-10.00	PASS
		2366.5	-35.57	-10.00	PASS
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		2375.5	-35.66	-10.00	PASS
		2376.5	-34.64	-10.00	PASS
		2377.5	-34.52	-10.00	PASS
		2378.5	-33.08	-10.00	PASS
		2379.5	-34.51	-10.00	PASS
		2380.5	-33.69	-10.00	PASS
		2381.5	-33.24	-10.00	PASS
		2382.5	-31.84	-10.00	PASS
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		2385.5	-31.88	-10.00	PASS
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		2390.5	-28.99	-10.00	PASS
		2391.5	-29.03	-10.00	PASS
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		2395.5	-28.18	-10.00	PASS
		2396.5	-26.34	-10.00	PASS
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		2485	-40.35	-10.00	PASS
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		2490	-40.99	-10.00	PASS
		2491	-41.99	-10.00	PASS
		2492	-41.14	-10.00	PASS
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		2495	-42.91	-10.00	PASS
		2496	-42.65	-10.00	PASS
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		2510	-43.70	-10.00	PASS
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		2514	-43.74	-10.00	PASS
		2515	-43.39	-10.00	PASS
		2516	-43.76	-10.00	PASS
		2517	-43.57	-10.00	PASS
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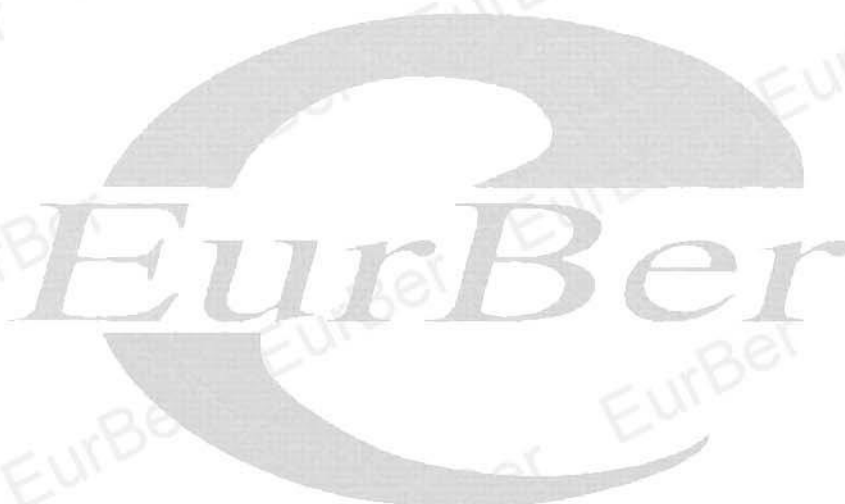
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			2544.289	-44.11	-20.00	PASS
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			2550.289	-44.03	-20.00	PASS
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		2380.5	-42.30	-10.00	PASS
		2381.5	-42.52	-10.00	PASS
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		2385.5	-42.17	-10.00	PASS
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		2398.5	-40.94	-10.00	PASS
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		2484	-23.51	-10.00	PASS
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		2499	-31.79	-10.00	PASS
		2500	-32.41	-10.00	PASS
		2501	-33.95	-10.00	PASS
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		2503	-34.45	-10.00	PASS
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		2518	-41.81	-10.00	PASS
		2519	-40.30	-10.00	PASS
		2519.271	-41.55	-10.00	PASS
		2520.271	-42.45	-20.00	PASS
		2521.271	-41.48	-20.00	PASS
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		2525.271	-42.59	-20.00	PASS
		2526.271	-42.49	-20.00	PASS
		2527.271	-43.17	-20.00	PASS
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		2530.271	-42.74	-20.00	PASS
		2531.271	-43.14	-20.00	PASS
		2532.271	-43.03	-20.00	PASS
		2533.271	-43.32	-20.00	PASS
		2534.271	-42.80	-20.00	PASS
		2535.271	-43.17	-20.00	PASS
		2536.271	-42.79	-20.00	PASS
		2537.271	-43.67	-20.00	PASS
		2538.271	-43.81	-20.00	PASS
		2539.271	-43.66	-20.00	PASS
		2540.271	-43.17	-20.00	PASS
		2541.271	-43.37	-20.00	PASS
		2542.271	-43.84	-20.00	PASS
		2543.271	-43.86	-20.00	PASS

			2544.271	-43.27	-20.00	PASS
			2545.271	-43.32	-20.00	PASS
			2546.271	-43.50	-20.00	PASS
			2547.271	-43.83	-20.00	PASS
			2548.271	-44.00	-20.00	PASS
			2549.271	-43.67	-20.00	PASS
			2550.271	-43.62	-20.00	PASS
			2551.271	-43.98	-20.00	PASS
			2552.271	-43.95	-20.00	PASS
			2553.271	-43.56	-20.00	PASS
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			2555.271	-43.95	-20.00	PASS
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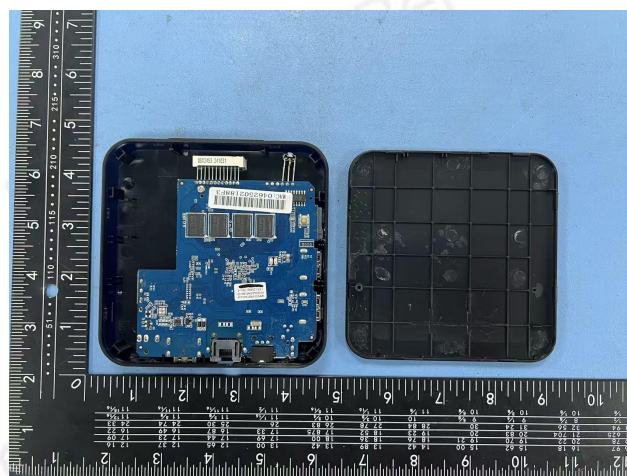
Appendix G): Adaptivity Test

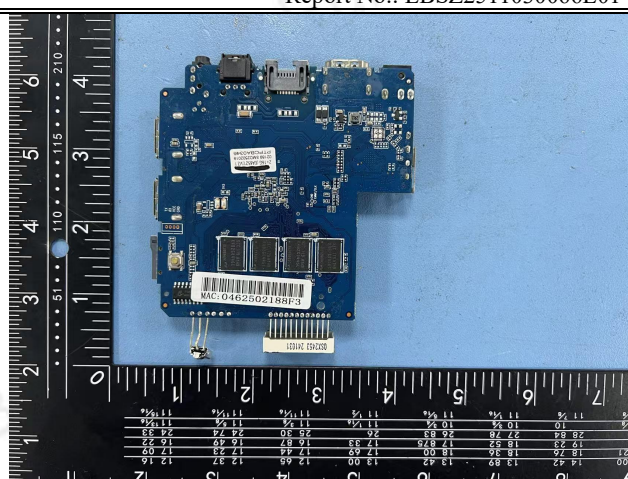
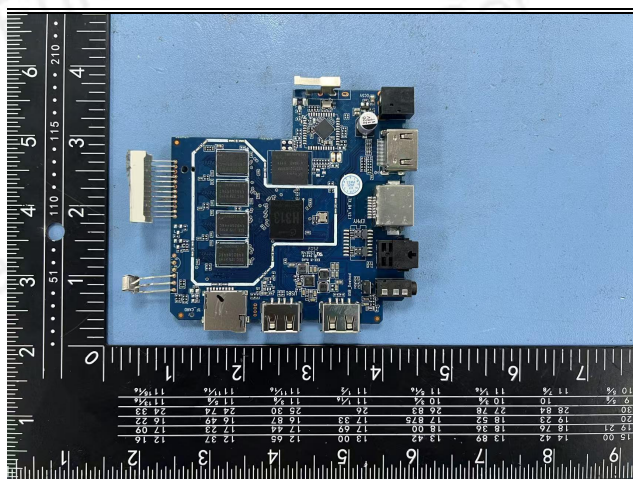
Test Result

TestMode	Antenna	Channel	Max.COT [ms]	Limit[ms]	Min.Idle Time[ms]	Limit[ms]	Verdict
11B	Ant1	2412	1.313	13	0.324	0.018	PASS
		2472	1.052	13	0.427	0.018	PASS
11G	Ant1	2412	1.313	13	0.322	0.018	PASS
		2472	0.254	13	0.064	0.018	PASS
11N20SISO	Ant1	2412	2.698	13	0.068	0.018	PASS
		2472	2.698	13	0.069	0.018	PASS
11N40SISO	Ant1	2422	1.818	13	0.067	0.018	PASS
		2462	1.318	13	0.067	0.018	PASS

TestMode	Antenna	Channel	Add Signal Type	Add Signal Time[ms]	Add Signal Level[dbm]	Max. Short Time [%]	Limit [%]	Verdict
11B	Ant1	2412	AWGN	3000	-65.88	2.80	10	PASS
			CW	65998	-32.23	3.00	10	PASS
		2472	AWGN	3000	-65.63	0.00	10	PASS
			CW	65998	-32.23	0.00	10	PASS
11G	Ant1	2412	AWGN	3000	-66.01	3.00	10	PASS
			CW	65998	-32.23	3.00	10	PASS
		2472	AWGN	3000	-65.71	3.80	10	PASS
			CW	65998	-32.23	0.00	10	PASS
11N20SISO	Ant1	2412	AWGN	3000	-66.03	3.20	10	PASS
			CW	65998	-32.23	3.00	10	PASS
		2472	AWGN	3000	-65.81	0.80	10	PASS
			CW	65998	-32.23	0.00	10	PASS
11N40SISO	Ant1	2422	AWGN	3000	-66.14	3.40	10	PASS
			CW	65998	-32.23	2.80	10	PASS
		2462	AWGN	3000	-65.63	0.00	10	PASS
			CW	65998	-32.23	0.00	10	PASS

Photographs Constructional Details





-----End of the report-----

EurBer