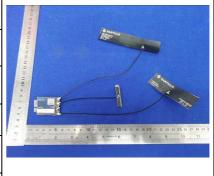




TEST REPORT

Applicant	Particle Industries, Inc
Address	325 9th St, San Francisco, CA 94103 USA, 415-319-1553

Manufacturer or Supplier	Particle Industries, Inc
Address	325 9th St, San Francisco, CA 94103 USA, 415-319-1553
Product	M SoM
Brand Name	Particle
Model	M524
Additional Model & Model Difference	N/A
Date of tests	Jan. 11, 2024 ~ Feb. 23, 2024



The submitted sample of the above equipment has been tested according to the requirements of the following standards:

EN 300 328 V2.2.2 (2019-07)

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen	Approved by Glyn He
Project Engineer / EMC Department	Assistant Manager / EMC Department

Date: Mar. 05, 2024

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China. Tel.: +86 769 8998 2098 Fax: +86 769 8593 1080



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RE2312WDG0148-2	Original release	Mar. 05, 2024

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1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

EN 300 328 V2.2.2			
Clause	Test Parameter	Results	
	TRANSMITTER PARAMETERS		
4.3.2.2	RF Output Power	Pass	
4.3.2.3	Power Spectral Density	Pass	
4.3.2.6	Adaptivity	Pass	
4.3.2.7	Occupied Channel Bandwidth	Pass	
4.3.2.8	Transmitter unwanted emission in the OOB domain	Pass	
4.3.2.9	Transmitter unwanted emissions in the spurious domain Pass		
4.3.2.12	Geo-location capability	Not Applicable	
	RECEIVER PARAMETERS		
4.3.2.10	Receiver Spurious Emissions	Pass	
4.3.2.11	Receiver Blocking	Pass	

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1.1. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Jan. 02, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Jan. 01, 25
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Jan. 08, 25
Horn Antenna	ETS-Lindgren	3117	00062558	Apr.01, 24
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	N/A
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May. 20, 24
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	Apr. 01, 24
Amplifier	Burgeon	BPA-530	100220	Mar. 06, 24
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 24, 24
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Jan. 02 25
Power Sensor	Keysight	U2021XA	MY57320002	May. 11, 24
Humid & Temp Programmable Tester	Haida	HD-225T	1108072001	Oct. 15, 24
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 11, 24
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Apr 05, 24
Spectrum Analyzer	Keysight	N9020A	MY55400499	Jan. 01, 25
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 24
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	102426	Apr. 05, 24
Vector Signal Generator	Rohde&Schwarz	SMBV100A	257579	Oct. 15, 24
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A

NOTES:

- 1. The test was performed in 966 Chamber and RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months, and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

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For Receiver Blocking test and Adaptivity test:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	102426	Apr. 05, 24
Signal Analyzer	Rohde&Schwarz	FSV7	102331	Apr. 05, 24
Spectrum Analyzer	Keysight	N9020A	MY55400499	Jan. 01, 25
Signal Generator	Agilent	N5183A	MY50140980	Jul. 23, 24
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 24
Power Sensor	Keysight	U2021XA	MY57320002	May. 11, 24
Vector Signal Generator	Rohde&Schwarz	SMBV100A	257579	Oct. 15, 24
Agile Signal Generator	Agilent	8645A	Agilent	N/A
Shield Box	TOJOIN	MS4345-C	SZA18A 3038	N/A
Attenuator	TOJOIN	CHB-8-90-1-B 50SMA	0803002	N/A
COM Power Splitter	TOJOIN	PS-TX-2B	020801	N/A
COM Power Splitter	TOJOIN	PS-TX-2B	020802	N/A
Test software	TonScend	JS1120-3-1	V2.6.88.0330	N/A

NOTES:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months, and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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1.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

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

Parameter	Uncertainty
Occupied Channel Bandwidth	±1.132 %
RF output power, conducted	±0.56dB
Power Spectral Density, conducted	±1.017dB
Unwanted Emissions, conducted	±1.017dB
All emissions, radiated	±4.84dB
Temperature	±0.23°C
Supply voltages	±0.1 %
Time	±4 %

1.3. MAXIMUM MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 328 standard, the measurement uncertainty figures shall be calculated in accordance with ETR 100 028-1 [4] and shall correspond to an expansion factor (coverage factor) k = 1,96 or k = 2 (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Maximum measurement uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1,5 dB
Power Spectral Density, conducted	±3 dB
Unwanted Emissions, conducted	±3 dB
All emissions, radiated	±6 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %

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2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

PRODUCT	M SoM
TEST MODEL	M524
ADDITIONAL MODEL	N/A
NOMINAL VOLTAGE	VCC: 3.8V. 3V3:3.3V
OPERATING TEMPERATURE RNAGE	-35 ~ +75℃
MODULATION TECHNOLOGY	DSSS, OFDM
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
OPERATING FREQUENCY	2412-2472MHz for 11b/g/n(HT20)
ADPTIVE/NON-ADPTIVE	 □ 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
EIRP (MAX.)	19.89dBm
ANTENNA TYPE	PCB Antenna, 3dBi Gain
CABLE SUPPLIED	N/A

Notes:

- 1. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: W7L-P23120016) for detailed product photo.
- 4. The EUT provides completed transmitters and receivers, the EUT uses only one antenna at any time.

MODULATION MODE	TX FUNCTION
802.11b	1TX/1RX
802.11g	1TX/1RX
802.11n (HT20)	1TX/1RX

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2.2. DESCRIPTION OF TEST MODES

13 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz		2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

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2.2.1. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT	APPLICABLE TO						DESCRIPTION			
CONFIGURE MODE	ROP	PSD	AD	ОСВ	ООВ	RSE<1G	RSE≥1G	RB	DESCRIPTION	
А	√	√	√	√	√	\checkmark	V	√	Powered by DC 3.8V from SOM Mini SYS test board with WIFI link	

Where ROP: RF Output Power PSD: Power Spectral Density

AD: Adaptivity (Channel Access Mechanism) OCB: Occupied Channel Bandwidth

OOB: Transmitter unwanted emissioin in the RSE<1G: Spurious Emissions below 1GHz

out-of-band domain

RSE≥1G: Spurious Emissions above 1GHz **RB:** Receiver Blocking

RF OUTPUT POWER TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 13	1, 7, 13	DSSS	DBPSK	1.0
802.11g	1 to 13	1, 7, 13	OFDM	BPSK	6.0
802.11n (HT20)	1 to 13	1, 7, 13	OFDM	BPSK	6.5

POWER SPECTRAL DENSITY TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 13	1, 7, 13	DSSS	DBPSK	1.0
802.11g	1 to 13	1, 7, 13	OFDM	BPSK	6.0
802.11n (HT20)	1 to 13	1, 7, 13	OFDM	BPSK	6.5

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ADAPTIVITY TEST:

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
802.11b	1 to 13	1, 13	DSSS
802.11g	1 to 13	1, 13	OFDM
802.11n (HT20)	1 to 13	1, 13	OFDM

OCCUPIED CHANNEL BANDWIDTH TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 13	1, 13	DSSS	DBPSK	1.0
802.11g	1 to 13	1, 13	OFDM	BPSK	6.0
802.11n (HT20)	1 to 13	1, 13	OFDM	BPSK	6.5

TRANSMITTER UNWANTED EMISSION IN THE OUT-OF-BAND DOMAIN TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 13	1, 13	DSSS	DBPSK	1.0
802.11g	1 to 13	1, 13	OFDM	BPSK	6.0
802.11n (HT20)	1 to 13	1, 13	OFDM	BPSK	6.5

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SPURIOUS EMISSIONS TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 13	1	DSSS	DBPSK	1
Receiver	1 to 13	1	-	-	-

SPURIOUS EMISSIONS TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 13	1, 13	DSSS	DBPSK	1.0
802.11g	1 to 13	1, 13	OFDM	BPSK	6.0
802.11n (HT20)	1 to 13	1, 13	OFDM	BPSK	6.5
Receiver	1 to 13	1, 13	-	-	-

RECEIVER BLOCKING TEST:

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 13	1, 13	DSSS	DBPSK	1.0

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TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ROP	25deg. C, 60%RH	DC 3.8V from SOM Mini SYS test board	Vincent
PSD	25deg. C, 60%RH	DC 3.8V from SOM Mini SYS test board	Vincent
AD	25deg. C, 60%RH	. C, 60%RH DC 3.8V from SOM Mini SYS test board Vinc	
ОСВ	25deg. C, 60%RH	. C, 60%RH DC 3.8V from SOM Mini SYS test board Vince	
ООВ	25deg. C, 60%RH	DC 3.8V from SOM Mini SYS test board	Vincent
RSE<1G	27deg. C, 56%RH	DC 3.8V from SOM Mini SYS test board	Stalker
RSE≥1G	27deg. C, 56%RH	DC 3.8V from SOM Mini SYS test board	Stalker
RB	25deg. C, 60%RH	DC 3.8V from SOM Mini SYS test board	Yoyo

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2.3. GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

EN 300 328 V2.2.2 (2019-07)

All test items have been performed and recorded as per the above standards.

2.4. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	Inspiron 13-7378	GMSJZD2	N/A
2	SOM Mini SYS test board	N/A	V0.8	N/A	N/A
3	Adaptor	SONY	AC-UUD12	190112010051	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
	AC Line: Unshielded, Detachable 0.8m; DC Line: Unshielded, Non-detachable 1.8m USB Cable: Shielded, Detachable, 0.5m
2	N/A
3	USB Cable: Shielded, Detachable, 0.5m

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3 TEST PROCEDURES AND RESULTS

TRANSMITTER PARAMETERS

3.1. RF OUTPUT POWER

3.1.1. LIMITS OF RF OUTPUT POWER

CONDITION	FREQUENCY BAND	LIMIT (e.i.r.p.)
Under all test conditions	2400 ~ 2483.5 MHz	AV: 20dBm

3.1.2. TEST PROCEDURE

Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2.

Measurement		
⊠Conducted measurement	☐ Radiated measurement	

3.1.3. DEVIATION FROM TEST STANDARD

No deviation.

3.1.4. TEST SETUP

The measurement was performed at both normal environmental conditions and at the extremes of the operating temperature. The measurement was performed at the lowest, the middle, and the highest channel. The equipment was configured to operate under its worst-case situation with respect to output power. (In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator.) Controlling software has been activated to set the EUT on specific channel and power level.

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3.1.5. TEST RESULTS

			EIRP POWER (dBm)			
TEST	COND	ITION	(CH1) 2412 MHz	(CH7) 2442 MHz	(CH13) 2472 MHz	
802.11b						
$T_nom(^\circ\!\!\!\mathbb{C})$	+25		18.46	17.59	17.87	
$T_{min}(^{\circ}\!\mathbb{C})$	-35	$V_{\text{nom}}(v)$	18.75	17.69	18.14	
$T_{max}(^{\circ}\!$	+75		18.26	17.32	17.48	
802.11g						
$T_nom(^\circ\!$	+25		19.45	18.01	18.66	
$T_{min}(^{\circ}\!\mathbb{C})$	-35	$V_{\text{nom}}(v)$	19.89	18.13	18.95	
$T_{max}({}^{\circ}\!$	+75		18.96	17.66	18.34	
802.11n (H ⁻	802.11n (HT20)					
$T_nom(^\circ\!\!\!\mathbb{C})$	+25		19.58	18.13	18.88	
$T_{min}(^{\circ}\!\mathbb{C})$	-35	$V_{\text{nom}}(v)$	19.82	18.36	19.12	
$T_{max}({}^{\circ}\!\mathbb{C})$	+75		19.08	18.00	18.47	

NOTE: EIRP = Conducted output power + ANT Gain.

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3.2. POWER SPECTRAL DENSITY

3.2.1. LIMIT OF POWER SPECTRAL DENSITY

CONDITION	FREQUENCY BAND	LIMIT (e.i.r.p.)
Under normal conditions	2400 ~ 2483.5 MHz	10dBm / 1MHz

3.2.2. TEST PROCEDURE

Refer to chapter 5.4.3.2 of ETSI EN 300 328 V2.2.2.

Measurement Method				
☐ Conducted measurement ☐ Radiated measurement				
☑ Option 1: For equipment with continuous and non-continuous transmissions				
Option 2: For equipment with continuous transmission capability or for equipment operating (or with the capability to operate) with a constant duty cycle (e.g. Frame Based equipment)				

3.2.3. DEVIATION FROM TEST STANDARD

No deviation.

3.2.4. TEST SETUP

The measurement was performed at normal environmental conditions only. The measurement was performed at the lowest, the middle, and the highest channel. The equipment was configured to operate under its worst-case situation with respect to output power. (In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator.) Controlling software has been activated to set the EUT on specific status.

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3.2.5. TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER DENSITY (dBm/1MHz) (E.I.R.P)	LIMIT (dBm/1MHz) (E.I.R.P)	PASS/FAIL
1	2412.00	9.95	10	PASS
7	2442.00	8.94	10	PASS
13	2472.00	9.37	10	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER DENSITY (dBm/1MHz) (E.I.R.P)	LIMIT (dBm/1MHz) (E.I.R.P)	PASS/FAIL
1	2412.00	8.16	10	PASS
7	2442.00	6.28	10	PASS
13	2472.00	7.29	10	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER DENSITY (dBm/1MHz) (E.I.R.P)	LIMIT (dBm/1MHz) (E.I.R.P)	PASS/FAIL
1	2412.00	8.05	10	PASS
7	2442.00	6.19	10	PASS
13	2472.00	7.23	10	PASS

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3.3. OCCUPIED CHANNEL BANDWIDTH

3.3.1. LIMIT OF OCCUPIED CHANNEL BANDWIDTH

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

3.3.2. TEST PROCEDURE

Refer to chapter 5.4.7.2 of ETSI EN 300 328 V2.2.2.

Measurement		
⊠Conducted measurement	☐ Radiated measurement	

3.3.3. DEVIATION FROM TEST STANDARD

No deviation.

3.3.4. TEST SETUP

The measurement was performed at normal environmental conditions only. This measurement was performed at the lowest and the highest channel. The equipment was configured to operate under its worst-case situation with respect to output power. (In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator.) Controlling software has been activated to set the EUT on specific status.

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3.3.5. TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY			requencies	LIMIT	PASS/FAIL	
OHAMMEL	(MHz)	(MHZ)	FL (MHz)	FH (MHz)	LIMIT	FA33/FAIL	
1	2412	14.88	2404.72	2419.60	FL > 2400 MHz and	PASS	
13	2472	15.04	2464.40	2479.44	FH < 2483.5 MHz	PASS	

802.11g

CHANNEL	CHANNEL FREQUENCY	OCCUPIED BANDWIDTH	modeared mequeriores			PASS/FAIL	
CHANNEL	(MHz)	(MHZ)	FL (MHz)	FH (MHz)	LIMIT	FASS/I AIL	
1	2412	17.04	2403.60	2420.64	FL > 2400 MHz and	PASS	
13	2472	17.12	2463.44	2480.56	FH < 2483.5 MHz	PASS	

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY	OCCUPIED BANDWIDTH	Measured f	requencies	LIMIT	PASS/FAIL	
OHAMILE	(MHz)	(MHZ)	FL (MHz)	FH (MHz)	LIIVIII	I AGG/I AIL	
1	2412	18.16	2403.04	2421.20	FL > 2400 MHz and	PASS	
13	2472	18.24	2462.88	2481.12	FH < 2483.5 MHz	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.

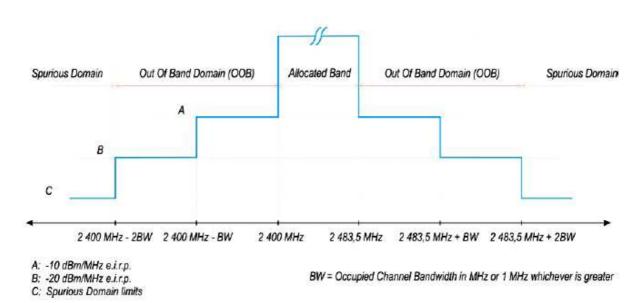
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3.4. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

3.4.1. LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

CONDITION	LIMIT
Under all test conditions	The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in below figure.



3.4.2. TEST PROCEDURE

Refer to chapter 5.4.8.2 of ETSI EN 300 328 V2.2.2.

Measur	ement
□ Conducted measurement	☐ Radiated measurement

3.4.3. DEVIATION FROM TEST STANDARD

No deviation.

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3.4.4. TEST SETUP

The measurement was performed at normal environmental conditions only. This measurement was performed at the lowest and the highest channel. The equipment was configured to operate under its worst-case situation with respect to output power. (In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator.) The frequency has to be recorded for the right and left end above threshold of highest and lowest channel respectively.

3.4.5. TEST RESULTS

802.11b

CHANNE	CHANNEL FREQ.(MHz)			2412				2472			
			OOB Emission (MHz)				OOB Emission (MHz)				
TEST CONDITION		2385.12 2370.24 ~ 2400 ~ 2385.12		2483.5 ~ 2498.54		2498.54 ~ 2513.58					
Tempera	ture	Voltage	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	
Tnorm(℃)	25	Normal	2399.50	-36.90	2384.62	-57.13	2487.00	-42.65	2498.88	-57.87	
Limit (dBm/MHz)		-10.00		-20.00		-10.00		-20.00			
PA	SS/FAII	_	PAS	SS	PASS		PASS		PASS		

802.11g

CHANNEI	CHANNEL FREQ.(MHz)		2412				2472			
		OOB Emission (MHz)				OOB Emission (MHz)				
TEST CONDITION		2382.96 2365.92 ~ 2400 ~ 2382.96			2483.5 ~ 2500.62		2500.62 ~ 2517.74			
Tempera	ture	Voltage	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)
Tnorm(°C)	25	Normal	2399.50	-26.04	2382.46	-54.43	2484.00	-28.65	2505.04	-58.04
Limit (dBm/MHz)		-10.00		-20.00		-10.00		-20.00		
PAS	SS/FAIL	_	PAS	SS	PAS	SS	PASS		PASS	

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802.11n (HT20)

CHANNE	CHANNEL FREQ.(MHz)			2412				2472			
				OOB Emission (MHz)				OOB Emission (MHz)			
TEST CONDITION		2381.84 2363.68 ~ 2400 ~ 2381.84		2483.5 ~ 2501.74		2501.74 ~ 2519.98					
Tempera	ture	Voltage	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	Freq. (MHz)	Power (dBm)	
Tnorm(°C)	25	Normal	2399.50	-26.58	2381.34	-55.95	2484.00	-29.54	2505.16	-57.95	
Limit (dBm/MHz)		-10.00		-20.00		-10.00		-20.00			
PA	PASS/FAIL		PAS	SS	PAS	SS	PASS		PASS		

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3.5. ADAPTIVE (CHANNEL ACCESS MECHANISM)

3.5.1. APPLICABILITY OF ADAPTIVE REQUIREMENTS AND LIMIT FOR WIDE BAND MODULATION TECHNIQUES

		Opei	rational Mode					
		LBT based Detect and Avoid						
Requirement	Non-LBT based Detect and Avoid	Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced as note 2)				
Minimum Clear Channel Assessment (CCA) Time	NA	18 us (see note 1)	(see note 2)	18 us (see note 1)				
Maximum Channel Occupancy (COT) Time	40 ms	1 ms to 10 ms	(see note 2)	13 ms				
Minimum Idle Period	5us	5% of COT	(see note 2)	18us (see note 3)				
Extended CCA check	NA	NA	(see note 2)	18us~160us				
Short Control Signalling Transmissions								

NOTE 1: The CCA time used by the equipment shall be declared by the supplier.

- NOTE 2:Load Based Equipment may implement an LBT based spectrum sharing mechanism based on the Clear ChannelAssessment (CCA) mode using energy detect, as described in IEEE 802.11™-2012 clause 9, clause 10, clause 16,clause 17, clause 19 and clause 20, or in IEEE 802.15.4™-2011 [i.4], clause 4, clause 5 and clause 8
- NOTE 3: The Idle Period in between transmissions is considered to be the CCA or the Extended CCA check as there are no transmissions during this period.
- NOTE 4: Adaptive equipment may or may not have Short Control Signalling Transmissions

Interference threshold level

Maximum transmit power (P _H)	Threshold level (TL)
EIRP dBm	(see notes 1 and 2)
20	-70 dBm / MHz

NOTE 1: For a 20 dBm e.i.r.p. transmitter the CCA threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G)

NOTE 2: For power levels less than 20 dBm e.i.r.p. the CCA threshold level may be relaxed to: $TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / \text{Pout})$; (Pout in mW e.i.r.p.)

Wanted signal mean power from companion device	Unwanted signal frequency (MHz)	Unwanted signal power (dBm)
sufficient to maintain the link	2 395 or 2 488,5	-35
(see note 2)	(see note 1)	(see note 3)

NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.

NOTE 2: A typical value which can be used in most cases is -50 dBm/MHz.

NOTE 3: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.

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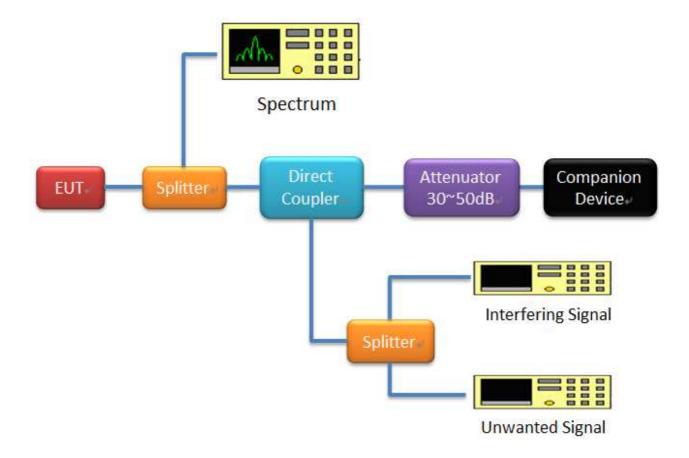


3.5.2. TEST PROCEDURES

Refer to chapter 5.4.6.2 of ETSI EN 300 328 V2.2.2.

Measurement							
□ Conducted measurement	☐ Radiated measurement						

3.5.3. TEST SETUP CONFIGURATION



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3.5.4. INTERFERENCE THRESHOLD LEVEL

Detection Threshold Level

The maximum EIRP power is 19.89dBm and antenna gain is 3dBi.

Detection Threshold level= -70 dBm/MHz + 10 × log10 (100 mW / (19.89dBm)) +3= -66.89dBm/MHz, the interference signal level to the UUT is -66.89dBm/MHz

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3.5.5. LIST OF MEASUREMENTS

		Limit		
UUT Operational Mode	Applica ble	The Maximum Channel Occupancy Time	The Minimum idle Period	
Frame Based Equipment		meet in 1ms ~ 10ms	>5% x channel occupancy time	
Load Based Equipment (Base on 'Spectrum Sharing' mechanisms)		Follow IEEE 802.11 Less thanms	Follow IEEE 802.11 More thanms	
Load Based Equipment (Not using any of the mechanisms referenced)	V	13ms	18us	

Clause	Test Parameter	Remarks	Pass/Fail
4.3.2.6.3.2.2	Adaptive (Frame Based Equipment)	Not Applicable	NA
4.3.2.6.3.2.3	Adaptive (Load Based Equipment)	Applicable	Pass
4.3.2.6.4	Short Control Signalling Transmissions	Applicable	Pass

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3.5.6. TEST RESULT

3.5.6.1. ADAPTIVE RESULT

OPERATING FREQUENCY BANDS AND MODE OF EUT

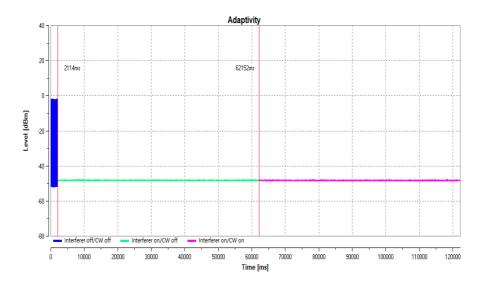
Operational Mode	Operating Frequency - Low Channel (MHz)	Operating Frequency -High Channel (MHz)	Test Result
802.11b	2412	2472	PASS
802.11g	2412	2472	PASS
802.11n (HT20)	2412	2472	PASS

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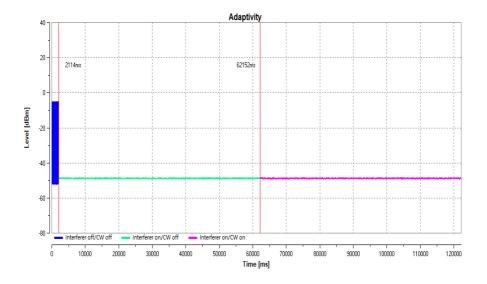


802.11b

2412MHz

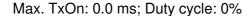


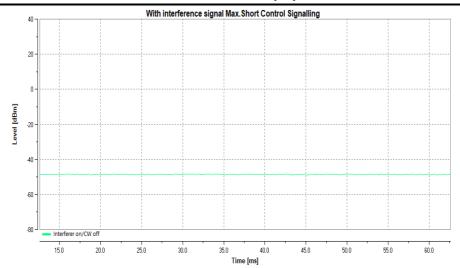
2472MHz



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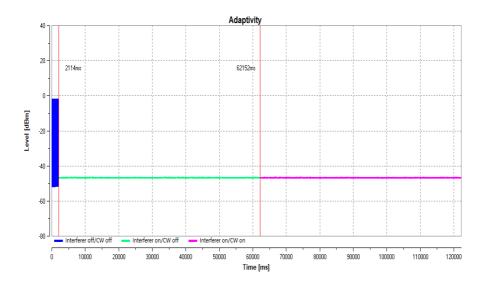


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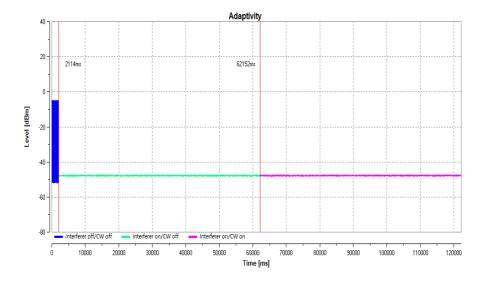


802.11g

2412MHz



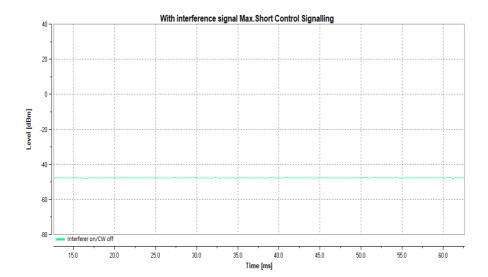
2472MHz



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Max. TxOn: 0.0ms; Duty cycle: 0%

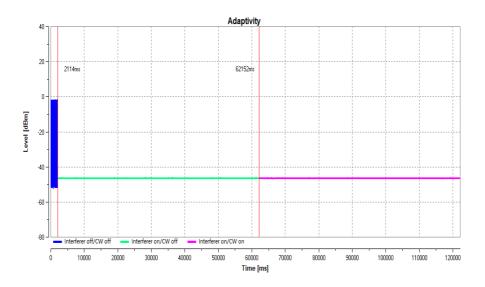


Tel.: +86 769 8998 2098 Fax: +86 769 8593 1080

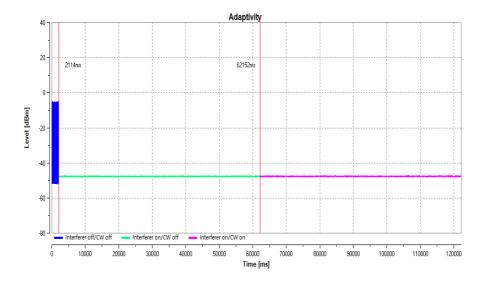


802.11n (HT20)

2412MHz



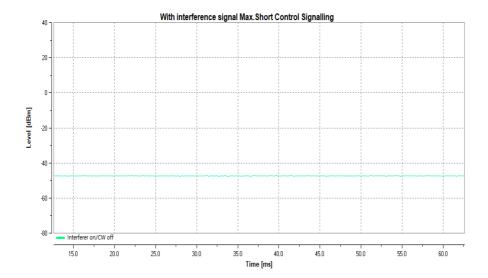
2472MHz



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Max. TxOn: 0.0ms; Duty cycle: 0%



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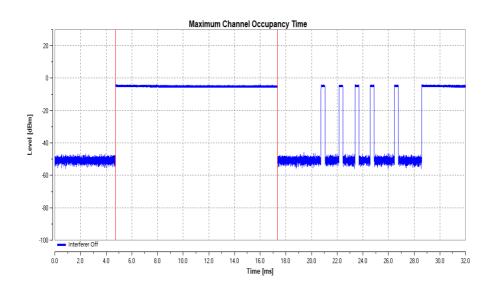
Email: customerservice.dg@bureauveritas.com



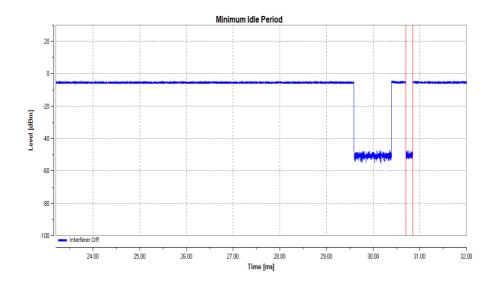
3.5.6.2. THE CHANNEL OCCUPANCY TIME RESULT

802.11b mode

The Channel occupancy Time: 12.628ms



Minimum idle time: 0.15ms

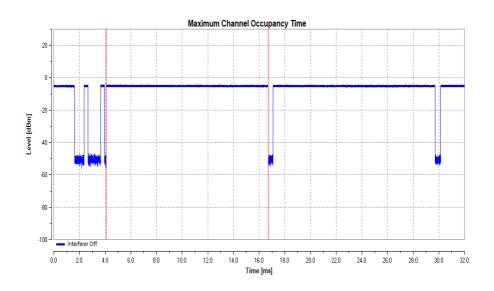


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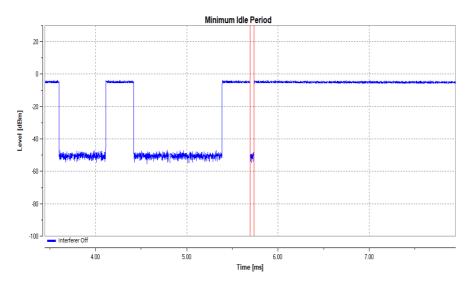


802.11g mode

The Channel occupancy Time: 12.628ms



Minimum idle time: 0.045ms

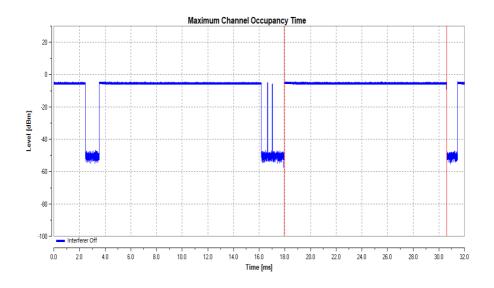


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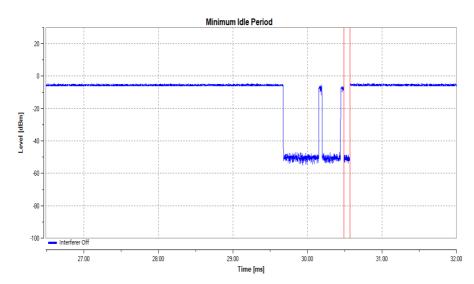


802.11nHT20 mode

The Channel occupancy Time: 12.628ms



Minimum idle time: 0.08ms



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3.6. TRANSMITTER SPURIOUS EMISSIONS

3.6.1. LIMITS OF TRANSMITTER SPURIOUS EMISSIONS

Transmitter limits for narrowband spurious emissions:

Frequency Range	Maximum Power Limit (e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz))	Bandwidth
30 MHz to 47 MHz	-36dBm	100kHz
47 MHz to 74 MHz	-54dBm	100kHz
74 MHz to 87,5 MHz	-36dBm	100kHz
87,5 MHz to 118 MHz	-54dBm	100kHz
118 MHz to 174 MHz	-36dBm	100kHz
174 MHz to 230 MHz	-54dBm	100kHz
230 MHz to 470 MHz	-36dBm	100kHz
470 MHz to 694 MHz	-54dBm	100kHz
694 MHz to 1 GHz	-36dBm	100kHz
1GHz ~ 12.75GHz	-30dBm	1MHz

Note: These limits are e.r.p. for emissions up to 1 GHz and as e.i.r.p. for emissions above 1 GHz.

3.6.2. TEST PROCEDURE

Refer to chapter 5.4.9.2 of ETSI EN 300 328 V2.2.2.

Measurement					
☐ Conducted measurement	□ Radiated measurement				
For Conducted measurement: The level of unwanted emissions shall be measured as their power in a specified load (conducted spurious emissions) and their effective radiated power when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).					
Conducted measurement (For equipment with multiple transmit chains): Option 1: The results for each of the transmit chains for the corresponding 1MHz segments shall be added and compared with the limits.					
 Option 2: The results for each of the transmithe limits after these limits have been reduced chains) 	t chains shall be individually compared with ced by 10 x log (N) (number of active transmit				

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3.6.3. DEVIATION FROM TEST STANDARD

No deviation.

3.6.4. TEST SETUP

- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. The equipment was configured to operate under its worst-case situation with respect to output power.
- 3. The measurement was performed at normal environmental conditions only. Controlling software has been activated to set the EUT on specific status.
- 4. This measurement was performed at the lowest and the highest channel.

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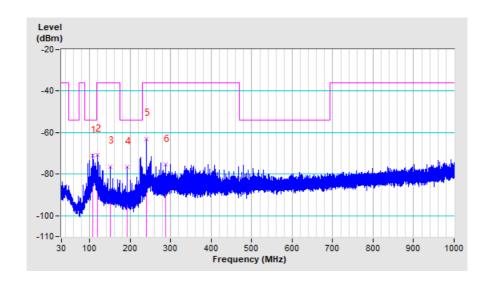
3.6.5. TEST RESULTS

BELOW 1GHz WORST-CASE DATA

802.11b

FREQUENCY RANGE	30MHz ~ 1GHz	OPERATING CHANNEL	1
-----------------	--------------	-------------------	---

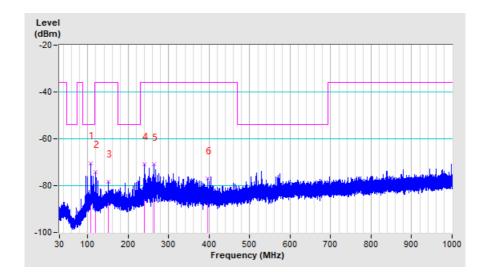
	SPURIOUS EMISSION LEVEL					
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)		
107.79	Н	-71.01	-54.00	-17.01		
119.98	Н	-70.55	-36.00	-34.55		
149.99	Н	-76.27	-36.00	-40.27		
191.89	Н	-76.30	-54.00	-22.30		
239.84	Н	-62.94	-36.00	-26.94		
287.70	Н	-75.17	-36.00	-39.17		



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	SPURIOUS EMISSION LEVEL						
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)			
107.89	V	-70.57	-54.00	-16.57			
119.98	V	-74.26	-36.00	-38.26			
149.99	V	-78.17	-36.00	-42.17			
240.01	V	-70.86	-36.00	-34.86			
264.38	V	-70.95	-36.00	-34.95			
397.05	V	-76.81	-36.00	-40.81			



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ABOVE 1GHz DATA

802.11b

FREQUENCY RANGE	1GHz ~ 12.75GHz	OPERATING CHANNEL	1, 13
-----------------	-----------------	-------------------	-------

SPURIOUS EMISSION LEVEL					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
	4824.00	Н	-56.00	-30.00	-26.00
4	4824.00	V	-56.00	-30.00	-26.00
'	7236.00	Н	-54.21	-30.00	-24.21
	7236.00	V	-52.22	-30.00	-22.22
13	4944.00	Н	-54.95	-30.00	-24.95
	4944.00	V	-55.20	-30.00	-25.20
	7416.00	Н	-54.28	-30.00	-24.28
	7416.00	V	-50.56	-30.00	-20.56

802.11g

FREQUENCY RANGE	1GHz ~ 12.75GHz	OPERATING CHANNEL	1, 13
-----------------	-----------------	-------------------	-------

SPURIOUS EMISSION LEVEL					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
	4824.00	Н	-55.72	-30.00	-25.72
4	4824.00	V	-55.57	-30.00	-25.57
'	7236.00	Н	-53.28	-30.00	-23.28
	7236.00	V	-54.32	-30.00	-24.32
13	4944.00	Н	-56.97	-30.00	-26.97
	4944.00	V	-55.76	-30.00	-25.76
	7416.00	Н	-52.28	-30.00	-22.28
	7416.00	V	-51.51	-30.00	-21.51

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802.11n (HT20)

FREQUENCY RANGE	1GHz ~ 12.75GHz	OPERATING CHANNEL	1, 13
-----------------	-----------------	-------------------	-------

SPURIOUS EMISSION LEVEL					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
	4824.00	Н	-56.11	-30.00	-26.11
	4824.00	V	-54.95	-30.00	-24.95
'	7236.00	Н	-53.80	-30.00	-23.80
	7236.00	V	-52.13	-30.00	-22.13
13	4944.00	Н	-54.90	-30.00	-24.90
	4944.00	V	-55.65	-30.00	-25.65
	7416.00	Н	-53.26	-30.00	-23.26
	7416.00	V	-52.38	-30.00	-22.38

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RECEIVER PARAMETERS

3.7. RECEIVER SPURIOUS RADIATION

3.7.1. LIMITS OF RECEIVER SPURIOUS RADIATION

Frequency Range	Maximum Power Limit (e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz))
30MHz ~ 1GHz	-57dBm
1GHz ~ 12.75GHz	-47dBm

Note: These limits are e.r.p. for emissions up to 1 GHz and as e.i.r.p. for emissions above 1 GHz.

3.7.2. TEST PROCEDURE

Refer to chapter 5.4.10.2 of ETSI EN 300 328 V2.2.2.

Measurement			
☐ Conducted measurement	□ Radiated measurement		
For Conducted measurement: The level of unwanted emissions shall be measu (conducted spurious emissions) and their effective cabinet or structure of the equipment with the aniload (cabinet radiation).	ve radiated power when radiated by the		
•	it chains for the corresponding 1MHz		

3.7.3. DEVIATION FROM TEST STANDARD

No deviation.

3.7.4. TEST SETUP

- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. Testing was performed when the equipment was in a receive-only mode.
- 3. The measurement was performed at normal environmental conditions only. Controlling software has been activated to set the EUT on specific status.
- 4. This measurement was performed at the lowest and the highest channel.

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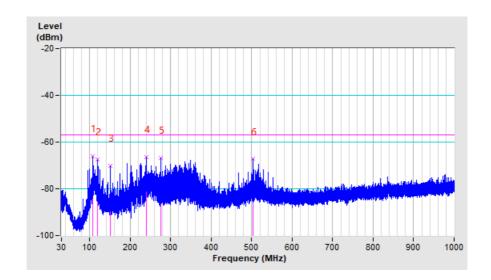


3.7.5. TEST RESULTS

RX BELOW 1GHz WORST-CASE DATA

FREQUENCY RANGE 30MHz ~ 1GHz	OPERATING CHANNEL	1
------------------------------	-------------------	---

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Limit (dBm)	Margin (dB)		
107.92	Н	-65.98	-57.00	-8.98
119.98	Н	-67.44	-57.00	-10.44
149.99	Н	-70.01	-57.00	-13.01
239.97	Н	-66.40	-57.00	-9.40
275.86	Н	-66.73	-57.00	-9.73
503.97	Н	-67.23	-57.00	-10.23

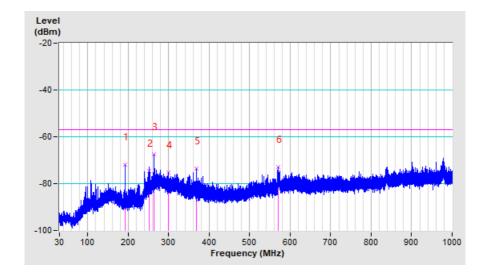


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|--|

SPURIOUS EMISSION LEVEL					
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)	
191.96	V	-71.72	-57.00	-14.72	
252.19	V	-74.51	-57.00	-17.51	
263.96	V	-67.46	-57.00	-10.46	
300.05	V	-75.23	-57.00	-18.23	
369.01	V	-73.39	-57.00	-16.39	
570.58	V	-72.79	-57.00	-15.79	



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RX ABOVE 1GHz WORST-CASE DATA

FREQUENCY RANGE	1GHz ~ 12.75GHz	OPERATING CHANNEL	1, 13
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SPURIOUS EMISSION LEVEL					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
	4824.00	Н	-56.80	-47.00	-9.80
4	4824.00	V	-57.22	-47.00	-10.22
1	7236.00	Н	-59.36	-47.00	-12.36
	7236.00	V	-58.11	-47.00	-11.11
	4944.00	Н	-58.74	-47.00	-11.74
13	4944.00	V	-58.44	-47.00	-11.44
	7436.00	Н	-55.49	-47.00	-8.49
	7436.00	V	-58.25	-47.00	-11.25

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3.8. RECEIVER BLOCKING

3.8.1. LIMITS OF RECEIVER BLOCKING

This requirement applies to all receiver categories.

Receiver Category				
⊠Category 1(EIRP>10dBm)	□Category 2(EIRP≦10dBm)	□Category 3(EIRP≦0dBm)		
Minimum performance criterion Alternative performance criteria (See note)				
Note: The manufacturer was declared the minimum performance criterion shall be no loss of the wireles transmission function needed for the intended use of the equipment.				

Receiver Category 1 Equipment			
Wanted signal mean power from companion device (dBm)(See note 1 and 4)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm) (See note 4)	Type of blocking signal
(-133dBm+10xlog ₁₀ (OCBW) Or -68dBm whichever is less (See note 2)	2 380 2 504		
(-139dBm+10xlog ₁₀ (OCBW) Or -74dBm whichever is less (See note 3)	2 300 2 330 2 360 2 524 2 584 2 674	-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: 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.

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Receiver Category 2 Equipment				
Wanted signal mean power from companion	Blocking Signal Frequency	Frequency Signal Power		
device (dBm)(See note 1 and 3)	(MHz)	(dBm) (See note 3)	signal	
(-139dBm+10xlog ₁₀ (OCBW)+10dB) Or -74dBm+10dB) 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 Pmin + 26 dB where Pmin 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 Equipment				
Wanted signal mean power from companion	Blocking Signal Frequency	Blocking Signal Power	Type of blocking	
device (dBm) (See note 1 and 3)	(MHz)	(dBm) (See note 3)	signal	
(-139dBm+10xlog ₁₀ (OCBW)+20dB) Or -74dBm+20dB) 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 the test may be performed using a wanted signal up to $P_{min} + 30 \text{ dB}$ 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. TEST PROCEDURE

Refer to chapter 5.4.11.2. of ETSI EN 300 328 V2.2.2.

Measurement						
	☐ Radiated measurement					

3.8.3. DEVIATION FROM TEST STANDARD

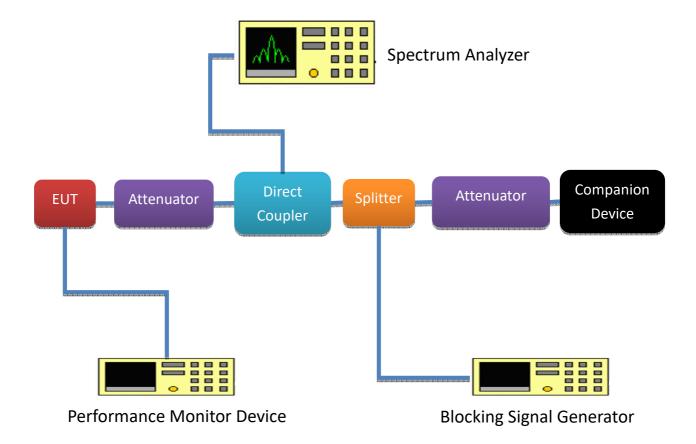
No deviation.

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3.8.4. TEST SETUP CONFIGURATION



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3.8.5. TEST RESULT

802.11b

Receiver Category 1 Equipment

Desired blacking and support when a position of the lowest an autimate a part (OHA)							
Receiver blocking performance when operating at the lowest operating channel(CH1)							
OCBW _{min} : 14.88MHz		antenna gain(G) : 3dBi					
The natual blocking signal power/Neta1)		at the antenna connector					
The actual blocking signal power(Note1)			in front of the antenna				
Note1: For the conducted measurements, the level shall be corrected as follows:							
the actual blocking signal power = blocking signal power + antenna gain							
The actual wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	The actual blocking signal power (dBm)	PER(%)	Pass/Fail			
-65	2380	-31	0.5	PASS			
-71	2300		0.5	PASS			
	2330		0.2	PASS			
	2360		0.1	PASS			

Receiver blocking performance when operating at the lowest operating channel(CH13)							
OCBW _{min} : 15.04MHz			antenna gain(G): 3dBi				
The actual blocking signal power(Note1)			at the antenna connector				
			in front of the antenna				
Note1: For the conducted measurements, the level shall be corrected as follows:							
the actual blocking signal power = blocking signal power + antenna gain							
The actual wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	The actual blocking signal power (dBm)	PER(%)	Pass/Fail			
-65	2504	-31	0.1	PASS			
-71	2524		0.4	PASS			
	2584		0.1	PASS			
	2674		0.3	PASS			

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4 PHOTOGRAPHS OF THE TEST CONFIGURATION





SPURIOUS EMISSION TEST ABOVE 1GHz

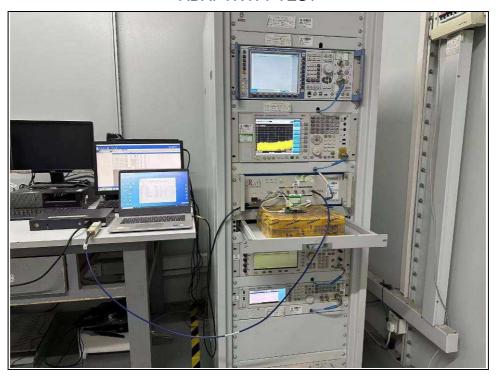


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ADAPTIVITY TEST



RECEIVING BLOCKING



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5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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