Article 2 Paragraph 1, item 19

TEST REPORT

For

IP-Phone

MODEL NUMBER: C456HD

REPORT NUMBER: E04A26030929J00301

ISSUE DATE: April 30, 2026

Prepared for

Audiocodes Ltd.

6 Ofra Haza St., Naimi Park, Or Yehuda, 6032303, Israel

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

This report is based on a single evaluation of the submitted sample(s) of the above mentioned Product, it does not imply an assessment of the production of the products. This report shall not be reproduced, except in full, without the written approval of Guangdong Global Testing Technology Co., Ltd.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 30, 2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Result
Frequency tolerance	Article 2 Paragraph 1, item 19	Pass
Antenna power	Article 2 Paragraph 1, item 19	Pass
Spurious emission intensity	Article 2 Paragraph 1, item 19	Pass
Occupied bandwidth	Article 2 Paragraph 1, item 19	Pass
Receiver – limit of secondarily emitted radio wave strength	Article 2 Paragraph 1, item 19	Pass
Radio Interference prevention function	Article 2 Paragraph 1, item 19	Pass
Carrier sense capability	Article 2 Paragraph 1, item 19	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to < Article 2 Paragraph 1, item 19> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Audiocodes Ltd.
Address: 6 Ofra Haza St., Naimi Park, Or Yehuda, 6032303, Israel

Manufacturer Information

Company Name: Audiocodes Ltd.
Address: 6 Ofra Haza St., Naimi Park, Or Yehuda, 6032303, Israel

EUT Information

Product Description: IP-Phone
Model: C456HD
Brand: audiocodes

Sample Received Date: March 26, 2026
Sample Status: Normal
Sample ID: A26030929 001
Date of Tested: March 26, 2026 to April 30, 2026

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
Article 2 Paragraph 1, item 19	**Pass**

Prepared By:

Win Huang

Project Engineer

Checked By:

Alan He

Laboratory Leader

Approved By:

Alan He

Laboratory Manager

Guangdong Global Testing Technology Co., Ltd. GTG CERTIFICATE

2. TEST METHODOLOGY

All tests were performed in accordance with the standard Article 2 Paragraph 1, item 19

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 6947.01)** Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1343)** Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules **ISED (Company No.: 30714)** Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People’s Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

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

Test Items	k	Uncertainty
Occupied bandwidth	1.96	±9.2 PPM
Frequency tolerance	1.96	±9.0 PPM
Dwell time	1.96	±0.57%
Antenna power	1.96	±1.5 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		IP-Phone
Model		C456HD
Ratings		12V ⎓ 2A
Power Supply	DC	12V ⎓ 2A from LPS or 48V ⎓ 0.4A from PoE
	Battery	/

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2472 MHz
Type of Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Rated Antenna Power	8.0mW/MHz for 802.11b 6.0mW/MHz for 802.11g 3.0mW/MHz for 802.11n HT20 3.0mW/MHz for 802.11n HT40 3.0mW/MHz for 802.11ax HE20 2.0mW/MHz for 802.11ax HE40
Antenna Type:	FPC Antenna
Antenna Gain:	2.64 dBi for antenna 1 3.09 dBi for antenna 2
EUT Test software:	SecureCRT
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

802.11b/g/n HT20/ax HE20							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452	13	2472
2	2417	6	2437	10	2457	/	/
3	2422	7	2442	11	2462	/	/
4	2427	8	2447	12	2467	/	/

802.11n HT40/ax HE40							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452	/	/
4	2427	7	2442	10	2457	/	/
5	2432	8	2447	11	2462	/	/

5.3. TEST POWER SUPPLY

Test Voltage: 12V DC

The EUT is supplied with 12V DC The fluctuation of input voltage to the circuit of RF unit of test equipment is under ±1%, when input voltage from 12V DC to the test equipment is fluctuated by ±10%, So all measurement was conducted on the rated voltage (12V DC).

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
802.11b	CH 1(Low Channel), CH 7(MID Channel), CH 13(High Channel)	2412 MHz, 2442 MHz, 2472 MHz
802.11g	CH 1(Low Channel), CH 7(MID Channel), CH 13(High Channel)	2412 MHz, 2442 MHz, 2472 MHz
802.11n HT20	CH 1(Low Channel), CH 7(MID Channel), CH 13(High Channel)	2412 MHz, 2442 MHz, 2472 MHz
802.11n HT40	CH 3(Low Channel), CH 7(MID Channel), CH 11(High Channel)	2422 MHz, 2442 MHz, 2462 MHz
802.11ax HE20	CH 1(Low Channel), CH 7(MID Channel), CH 13(High Channel)	2412 MHz, 2442 MHz, 2472 MHz
802.11ax HE40	CH 3(Low Channel), CH 7(MID Channel), CH 11(High Channel)	2422 MHz, 2442 MHz, 2462 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

WORST-CASE CONFIGURATIONS

Modulation Type	Data Rate
802.11b	1Mbps
802.11g	6Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		SecureCRT		
Modulation Type	Transmit Antenna Number	Test Software setting value		
		CH 1	CH 7	CH 13
802.11b	1	20	20	20
	2	20	20	20
802.11g	1	20	20	20
	2	20	20	20
802.11n HT20	1 + 2	17	17	17
802.11n HT20		17	17	17
802.11ax HE20	1 + 2	17	17	17
802.11ax HE20		17	17	17

Modulation Type	Transmit Antenna Number	CH 3	CH 7	CH 11
802.11n HT40	1 + 2	18	18	18
802.11n HT40		18	18	18
802.11ax HE40	1 + 2	17	17	17
802.11ax HE40		17	17	17

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2472	FPC	2.64
2	2412-2472	FPC	3.09

Test Mode	Transmit and Receive Mode	Description
802.11b	☒TX, RX	Antenna 1, Antenna 2 can be used as transmitting/receiving antenna.
802.11g	☒TX, RX	Antenna 1, Antenna 2 can be used as transmitting/receiving antenna.
802.11n HT20	☒TX, RX	Antenna 1, Antenna 2 can be used as transmitting/receiving antenna.
802.11n HT40	☒TX, RX	Antenna 1, Antenna 2 can be used as transmitting/receiving antenna.
802.11ax HE20	☒TX, RX	Antenna 1, Antenna 2 can be used as transmitting/receiving antenna.
802.11ax HE40	☒TX, RX	Antenna 1, Antenna 2 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Laptop	Lenovo	Thinkpad T14	PF-3EAKYR	GTG Support

5.8. SETUP DIAGRAM

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2025/08/25	2026/08/24
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2025/08/25	2026/08/24
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2025/08/25	2026/08/24
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2025/08/25	2026/08/24
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2025/08/25	2026/08/24
temperature humidity chamber	Espec	SH-241	SH-241-2014	2025/08/25	2026/08/24
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Note: The instruments and equipment listed in the table are calibrated by CCIC, and the calibration method is referred to item ii c) of Article 24-2 paragraph 4.

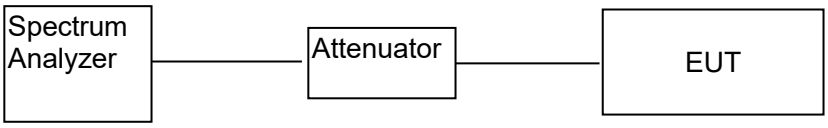
7. TEST RESULTS

7.1. FREQUENCY ERROR

LIMIT

+/- 50 x 10^{-6} or less (50ppm)

TEST CONFIGURATION



TEST PROCEDURE

1. Configure EUT according clause 2.3 and 4.3
2. Set EUT work in carrier Tx mode as described in clause 2.3
3. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the channel under test.
Resolution BW: 10KHz.
Video BW: 10KHz.
Span: 1MHz.
Detector: Peak.
Trace Mode: Max Hold.
4. When the trace is complete, find the peak value of the power envelope and record the frequency.

TEST ENVIRONMENT

Temperature	26.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

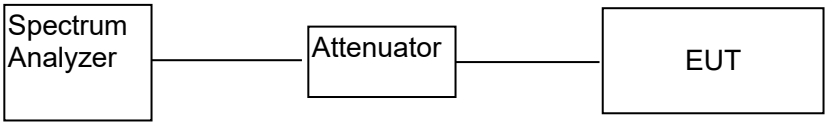
Please refer to "Test Data"-Appendix C

7.2. ANTENNA POWER

LIMIT

Item	Mode	Limits
Antenna Power Density	FH form 2400~2483.5MHz OFDM, DS from 2400~2483.5MHz Other from 2400~2483.5MHz	≦ 3mW/MHz ≦ 10mW/MHz ≦ 10mW
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)	

TEST CONFIGURATION



TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).
Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST ENVIRONMENT

Temperature	26.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to “Test Data”-Appendix C

Note:

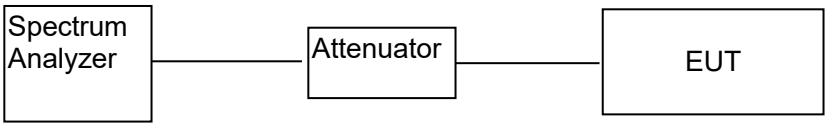
1. Power(mW) = $10^{(\text{Power(dBm)} / 10)}$
2. Antenna Power(mW/MHz) = Power(mW) / Spreading Bandwidth(MHz)
3. Tolerance(%) = (Antenna Power(mW/MHz) - Declared Power(mW/MHz)) / Declared Power(mW/MHz) * 100
4. Antenna Power(dBm/MHz) = $\log_{10}$(Antenna Power(mW/MHz)) * 10
5. EIRP Power(dBm/MHz) = Antenna Power(dBm/MHz) + Gain(dBi)

7.3. OCCUPIED BANDWIDTH

LIMIT

Occupied bandwidth: FH≤83.5 MHz; OFDM≤38 MHz, DS≤26 MHz; Others≤26 MHz

TEST CONFIGURATION



TEST PROCEDURE

1. Spectrum analyzer shall be follows:
   Center frequency: Center frequency of service band (e.g. 2412 MHz).
   Frequency sweep width: Approximately 2 to 3 times of the tolerance value (e.g. 40 MHz).
   Resolution bandwidth: Approximately 3% of tolerance value (e.g. 300 kHz)
   Video bandwidth: Approximately the same as the resolution bandwidth.
   Y-axis scale: 10dB/Div.
   Input level: Carrier level shall be enough higher than floor noise of spectrum analyzer.
   Sweep time: Minimum time to ensure the measuring accuracy (In case of burst wave, one burst shall be included per data point.)
   Data points: 400 points or more (e.g. 1001 points)
   Sweep mode: Continuous
   Detection mode: Positive peak
   Display mode: Maximum hold

2. The values measured by the spectrum analyzer shall be processed by external or internal computer.

TEST ENVIRONMENT

Temperature	26.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

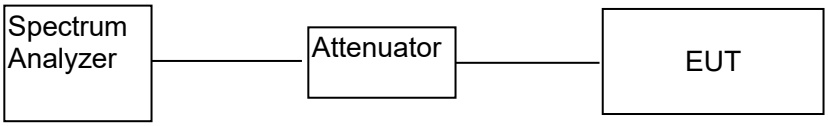
Please refer to “Test Data”-Appendix C

7.4. SPURIOUS EMISSION INTENSITY

LIMIT

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:
a. 2,387MHz ≤ f ≤ 2,400MHz and 2,483.5MHz < f ≤ 2,496.5MHz 25 μW or less
b. 2,387MHz > f and 2,496.5MHz < f 2.5 μW or less

TEST CONFIGURATION



TEST PROCEDURE

Spectrum Analyzer	Setting
Attenuation	Auto
RBW	100 kHz: 30 MHz ≦ f < 1000 MHz 1 MHz: 1000 MHz ≦ f < 5th Harmonics
VBW	100 kHz: 30 MHz ≦ f < 1000 MHz 1 MHz: 1000 MHz ≦ f < 5th Harmonics
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 0.25μW/100kHz(-36dBm/100kHz).
3. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz(-26dBm/1MHz).
4. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW/MHz(-16dBm/1MHz).
5. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW/MHz(-16dBm/1MHz).
6. SA adjusted to start frequency 2496.5MHz and stop frequency 13000MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz(-26dBm/1MHz).

TEST ENVIRONMENT

Temperature	26.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

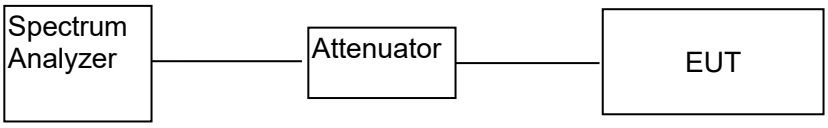
Please refer to “Test Data”-Appendix C~D

7.5. LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

LIMIT

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

TEST CONFIGURATION



TEST PROCEDURE

Spectrum Analyzer	Setting
Attenuation	Auto
RBW	100 kHz: 30 MHz ≦ f < 1000 MHz 1 MHz: 1000 MHz ≦ f < 5th Harmonics
VBW	100 kHz: 30 MHz ≦ f < 1000 MHz 1 MHz: 1000 MHz ≦ f < 5th Harmonics
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have the continuous reception mode and fixed only one channelize.
2. Start frequency 30MHz and Stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
3. Start frequency 1000MHz and Stop frequency 5th Harmonics. Search to mark peak reading value + cable loss shall be less than 20nW

TEST ENVIRONMENT

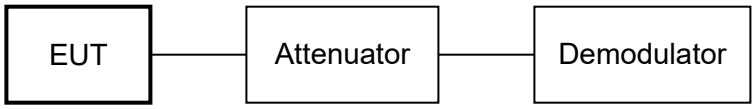
Temperature	26.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

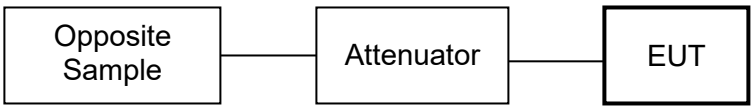
Please refer to “Test Data”-Appendix C

7.6. RADIO INTERFERENCE PREVENTION FUNCTION

(1) In case identification code is transmitted



(2) In case identification code is received



(3) Measuring Equipment Conditions

The Demodulator shall demodulate the TX-signal transmitted by the EUT and be able to display the contents of the identification code.
The opposite sample shall be able to transmit TX-signal equivalent to the TX-signal transmitted by the EUT.

(4) Conditions of EUT

The EUT is set on the usual operating mode.

(5) Measurement Procedure

(1) In case the EUT possesses function to transmit identification code automatically
Predetermined identification code is transmitted by the EUT.
Verify the transmitted identification code.
(2) In case the EUT possesses function to receive identification code automatically
Predetermined identification code is transmitted by the opposite sample.
Verify the working of the normal communication.
Other code than the predetermined identification code is transmitted by the opposite sample.
Verify the EUT to stop transmitting or to display that the ID code is different.

TEST ENVIRONMENT

Temperature	26.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Test Power	Normal Voltage
Test Mode	Signaling Mode
Test Result	Good, MAC Address:(00:17:19:07:bf:40)

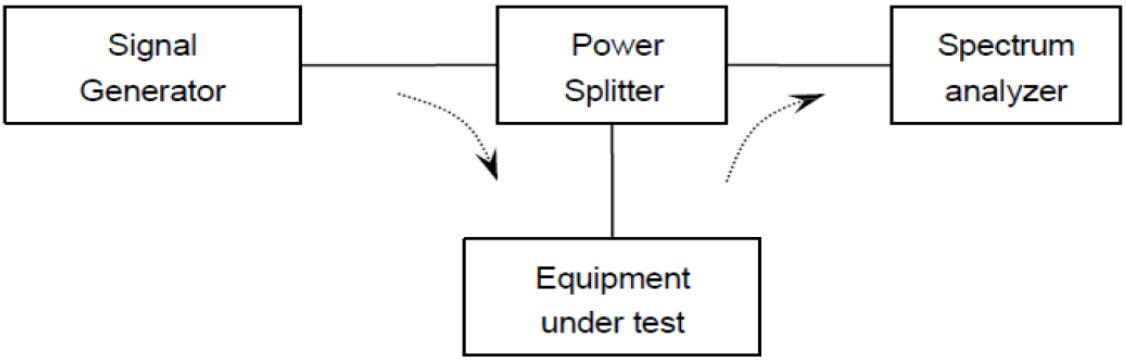
7.7. CARRIER SENSE CAPABILITY

LIMIT

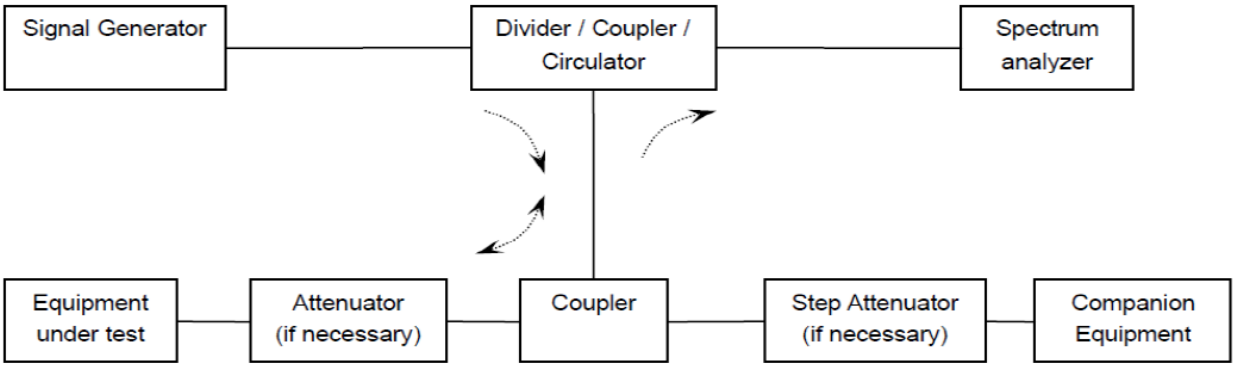
Carrier sensing: When the equipment receives the radio wave which is transmitted from a radio station other than the communication partner station and the field strength at maximal gain direction of receiving antenna power is over 100mV/m, the equipment shall not transmit radio in the same frequency of the other station.
The equipment shall start to transmit after carrier sensing. However, if it is controlled in transmitting or receiving from other station and it transmits again within 4msec. after carrier sensing, carrier sensing can be omitted.
Article 49.20 of the „Ordinance Regulating Radio Equipment "The transmitting equipment with OFDM which occupied bandwidth is 26 – 38MHz and its mean power is 5mW/1MHz shall have a carrier sensing function.

TEST CONFIGURATION

Carry out the test by Equipment under Test only (Necessary a Test Mode)



Carry out the test by using companion equipment (Necessary actual communication)



TEST PROCEDURE

1. Set the spectrum analyzer as follow:
   Resolution bandwidth: 1 MHz
   Video bandwidth: 1MHz
   Sweep Time: AUTO (Minimum time to ensure measurement accuracy.)
   Sweep mode: Continuous Sweep
   Detection mode: Positive peak
   Storage Mode: Normal
   Y-axis scale: 10 dB/Div
   Trigger: Free Run

TEST ENVIRONMENT

Temperature	26.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Test Power	Normal Voltage
Test Mode	802.11ax(HE40)
Test Result	Good

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Please refer to the report: E04A26030929J00301.

APPENDIX: PHOTOGRAPHS OF THE EUT

Please refer to the report: E04A26030929J00301.

END OF REPORT