

RF TEST REPORT

Report No. : DSP26041731-4R

Applicant : Hangzhou Crysound Electronics Co.,Ltd.

Product Name : SonoCam Pocket Acoustic Camera

Model Name : CRY8024

Test Standard : Article 2 Paragraph 1 of Item 19-3

Date of Issue : 2026-05-27

Shenzhen CCUT Quality Technology Co., Ltd.

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant:	Hangzhou Crysound Electronics Co.,Ltd. NO.10, Xianqiao Road, Zhongtai Street, Yuhang District, Hangzhou, 311121, Address of Applicant.....:	China
Manufacturer:	Hangzhou Crysound Electronics Co.,Ltd. NO.10, Xianqiao Road, Zhongtai Street, Yuhang District, Hangzhou, 311121, Address of Manufacturer.....:	China
Product Name:	SonoCam Pocket Acoustic Camera	
Brand Name:	-	
Main Model:	CRY8024	
Series Models:	See section 1.1(page 5)	
Test Standard:	Article 2 Paragraph 1 of Item 19-3	
Date of Test	2026-04-29 to 2026-05-27	
Test Result:	PASS	
Tested By	<u>Coke Huang</u>	(Coke Huang)
Reviewed By:	<u>Lorzix Luo</u>	(Lorzix Luo)
Authorized Signatory:	<u>Lahm Peng</u>	(Lahm Peng)
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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2026-05-27	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	SonoCam Pocket Acoustic Camera
Trade Name:	-
Test Model:	CRY8024
Series Models:	CRY8021, CRY8022, CRY8023, CRY8025, MPAC64, MPAC64-ADV
Rated Voltage:	Input: DC 5V/9V
Power Adapter:	-
Battery:	3.85V 3900mAh 15.015Wh
Hardware Version:	0x20251203
Software Version:	0.0.15
Note 1: The test data is gathered from a production sample, provided by the manufacturer.	
Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	802.11a(HT20) 802.11n(HT20/HT40) 802.11ac(HT20/HT40/HT80)
Operating Frequency:	W52: 5180MHz to 5240MHz W53: 5260MHz to 5320MHz W56: 5500MHz to 5720MHz
Number of Channel:	802.11a/n/ac(HT/VHT20): 4 for W52 and W53, 12 for W56 802.11n/ac(HT/VHT40): 2 for W52 and W53, 6 for W56 802.11ac(VHT80): 1 for W52 and W53, 3 for W56
Modulation:	DSSS, OFDM(BPSK, QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
Antenna Gain:	2.25dBi
Type of Antenna:	FPCB Antenna
Type of Device:	☐ Master Station ☒ Slave Station ☐ Modular

Channel List for W52 (5150-5250MHz)							
802.11a/n/ac(20MHz)				802.11n/ac(40MHz)		802.11ac(80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	<u>5180</u>	44	5220	38	<u>5190</u>	42	<u>5210</u>
40	<u>5200</u>	48	<u>5240</u>	46	<u>5230</u>	--	--

Channel List for W53 (5250-5350MHz)							
802.11a/n/ac(20MHz)				802.11n/ac(40MHz)		802.11ac(80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	<u>5260</u>	60	5300	54	<u>5270</u>	58	<u>5290</u>
56	<u>5280</u>	64	<u>5320</u>	62	<u>5310</u>	--	--

Channel List for W56 (5500-5720MHz)							
802.11a/n/ac(20MHz)		802.11n/ac(40MHz)		802.11ac(80MHz)		--	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	--	--
100	<u>5500</u>	102	<u>5510</u>	106	<u>5530</u>	--	--
104	5520	110	5550	122	<u>5610</u>	--	--
108	5540	118	<u>5590</u>	138	<u>5690</u>	--	--
112	5560	126	5630	--	--	--	--
116	5580	134	5670	--	--	--	--
120	<u>5600</u>	142	<u>5710</u>	--	--	--	--
124	5620	--	--	--	--	--	--
128	5640	--	--	--	--	--	--
132	5660	--	--	--	--	--	--
136	5680	--	--	--	--	--	--
140	5700	--	--	--	--	--	--
144	<u>5720</u>						

1.2 Test Setup Information

List of Test Modes			
Test Mode	Description	Remark	
TM1	802.11a/n(HT20)/ac(VHT20)	W52: 5180MHz/5200MHz/5240MHz W53: 5260MHz/5280MHz/5320MHz W56: 5500MHz/5600MHz/5720MHz	
TM2	802.11n(HT40)/ac(VHT40)	W52: 5190MHz/5230MHz W53: 5270MHz/5310MHz W56: 5510MHz/5590MHz/5710MHz	
TM3	802.11ac(HT80)	W52: 5210MHz W53: 5290MHz W56: 5530MHz/5610MHz/5690MHz	
Note: The product does not support MIMO mode.			
List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
-	-	-	-

1.3 Test Conditions

Supply Voltage			
	DC Input Voltage V	DC Voltage V	Percent
Normal(NV)	3.85	3.3	
+10%(HV)	4.235	3.3	0%
-10%(LV)	3.465	3.3	0%
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%. So the following test items are conducted in the normal voltage. Note 2: The regulator voltage is integral within U20 (AP6256). Note 3: 3.3VDC from the RF module, for extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results, only the normal voltage was selected to perform all items.			

Test Environment					
Temperature	21°C	Humidity	52%	Atmospheric Pressure	1011.0mbar

1.4 Compliance Standards

Compliance Standards	
Article 2 Paragraph 1 of Item 19-3	Low Power Data Communication System in the 5GHz band
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
MIC notification No.88 of 2004, Annex 45	Low Power Data Communication System in the 5GHz band
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.5 Test Facilities

Laboratory Name:	Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No:	583813
ISED Registration No.:	CN0164

1.6 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted RF Testing					
RF Test System	MWRFTTest	MW100-RFCB	220418SQS-37	2025-07-16	2026-07-15
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2025-07-16	2026-07-15
Power Meter	MRT	MW100-RFCB	MW220418SQS-37	2025-07-15	2026-07-14
Calibration agency: Guangzhou LiSai Metrology & Test Co., Ltd.					
Address: No.8 South Street, Shiji Institute, Guangzhou, Guangdong, China					
Calibration method: Through the standard signal source calibration, the results meet the requirements.					
Calibration agency comply with designated calibration agency under Article 102-18 paragraph (1).					

1.7 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Frequency Tolerance	9kHz ~ 6GHz	$\pm 1 \text{ E-7}$
Conducted Output Power	9kHz ~ 6GHz	$\pm 0.50 \text{ dB}$
Occupied Bandwidth	9kHz ~ 6GHz	$\pm 4.0 \%$
Conducted Spurious Emission	9kHz ~ 26GHz	$\pm 1.32 \text{ dB}$

2. Summary of Test Results

MIC Rule	Description of Test Item	Result
Article 2 Paragraph 1 of Item 19-3	Frequency Tolerance	Passed
	Antenna and EIRP Power	Passed
	Occupied Bandwidth	Passed
	Adjacent Channel Leakage Power	Passed
	Out of Band Leakage Power	Passed
	Transmitter Spurious Emissions	Passed
	Receiver Spurious Emissions	Passed
	Transmission Burst Length	Passed
	Carrier Sensing Function	Passed
	Interference Prevention Function	Passed
	Dynamic Frequency Selection(DFS)	N/A
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		
The Appendix A is a part of the test report, including EUT external photos, internal photos, test photos and label information; The Appendix B is a part of the test report, including test data and test plots for RF testing;		

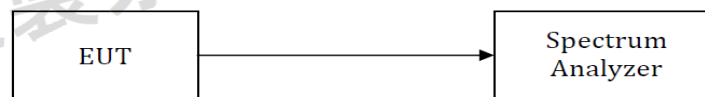
3. Frequency Tolerance

3.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3, the maximum permit tolerance of frequency is 20ppm.

3.2 Test Procedure

- (1) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- (2) Set center frequency of spectrum analyzer = operating frequency.
- (3) Set the spectrum analyzer as RBW, VBW=10KHz, Span = 2MHz.
- (4) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
- (5) Repeat above procedures until all frequency measured was complete.



Test Setup Block Diagram

3.3 Test Data and Results

Please refer to the section 1 of the Appendix B.

4. Antenna and EIRP Power

4.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3.

(1) The maximum permit antenna power is 10mW/MHz, EIRP is 10mW/MHz(W52), 5mW/MHz(W53) and 25mW/MHz(W56) for 20MHz system.

(2) The maximum permit antenna power is 5mW/MHz, EIRP is 5mW/MHz(W52), 2.5mW/MHz(W53) and 12.5mW/MHz(W56) for 40MHz system.

(3) The maximum permit antenna power is 2.5mW/MHz, EIRP is 2.5mW/MHz(W52), 1.25mW/MHz(W53) and 6.25mW/MHz(W56) for 80MHz system.

(4) The maximum permit antenna power is 1.25mW/MHz, EIRP is 1.25mW/MHz(W52), 0.625mW/MHz(W53) and 3.125mW/MHz(W56) for 160MHz system.

(5) The maximum permit tolerance is +20% and -80% for 5150MHz-5350MHz(W52, W53).

(6) The maximum permit tolerance is +50% and -50% for 5470MHz-5725MHz(W56).

Note: The product does not support TPC function.

4.2 Test Procedure

(1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.

(2) Set the spectrum analyzer to any one measured frequency within its operating range.

(3) Set RBW = 1MHz, VBW = 1MHz, Sweep = Auto, Detector = Peak.

(4) Measure the highest amplitude appearing on spectral display and mark the frequency.

(5) Set the spectrum analyzer to the mark frequency as center of frequency and set SPAN = 0Hz.

(6) Measure the highest amplitude appearing on spectral display and mark the value.

(7) Repeat the above procedures until all frequencies measured were complete.



Test Setup Block Diagram

4.3 Test Data and Results

Please refer to the section 2 and section 3 of the Appendix B.

$EIRP = \text{ANTENNA POWER} + \text{ANTENNA GAIN}$

5. Occupied Bandwidth

5.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3.

- (1) The occupied bandwidth shall not exceed 18MHz for DSSS.
- (2) The occupied bandwidth shall not exceed 20MHz for OFDM with 20MHz system.
- (3) The occupied bandwidth shall not exceed 40MHz for OFDM with 40MHz system.
- (4) The occupied bandwidth shall not exceed 80MHz for OFDM with 80MHz system.
- (5) The occupied bandwidth shall not exceed 160MHz for OFDM with 160MHz system.

5.2 Test Procedure

- (1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resoluble bandwidth: less than 3% of allowance

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: Minimum time by which measuring accuracy is assured (In case of burst wave, 1 burst shall be contained per 1 sample)

Sampling points: More than 400 points

Sweep mode : Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

- (2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

- (3) About all data, convert dB value to antilogarithm of electric power dimension.

- (4) Add up the electric power of all data and record it as "Sum total of electric power".

- (5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

- (6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".

- (7) Repeat above procedures until all frequency measured was complete.



Test Setup Block Diagram

5.3 Test Data and Results

Please refer to the section 4 of the Appendix B.

6. Adjacent Channel Leakage Power

6.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3, the adjacent channel leakage power must meet the following requirements.

Bandwidth	Adjacent Channel	Test Bandwidth	Limit of Leakage Power Ratio
20MHz (DSSS)	$\pm 20\text{MHz}$	18MHz	-25dBc
	$\pm 40\text{MHz}$	18MHz	-40dBc
20MHz (OFDM)	$\pm 20\text{MHz}$	20MHz	-25dBc
	$\pm 40\text{MHz}$	20MHz	-40dBc
40MHz	$\pm 20\text{MHz}$	40MHz	-25dBc
	$\pm 40\text{MHz}$	40MHz	-40dBc
80MHz	$\pm 80\text{MHz}$	80MHz	-25dBc

6.2 Test Procedure

(1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 1.5 times of allowance

Resoluble bandwidth: 300kHz

Video bandwidth: 300kHz

Sampling points: More than 400 points

Sweep mode : Continuous sweep

Detection mode: Sample

Display mode: Maximum holding

(2) Measuring of carrier power (Pc)

- Sweep at carrier frequency as centre frequency.
- Enter all values of data point to the computer as array variable.
- About all data, convert dB value to antilogarithm of electric power dimension.
- Add up the electric power of all data and record it as Pc.

(3) Measuring of leak power of upper neighboring channels (PU)

- Sweep at a 20MHz upper frequency (Detuning frequency specified in the equipment regulations) of carrier frequency as center frequency.
- Enter all values of data point to the computer as array variable.
- About all data, convert dB value to antilogarithm of electric power dimension.
- Add up the electric power of all data and record it as PU.
- Sweep at a 40MHz upper frequency (Detuning frequency specified in the equipment regulations) of carrier frequency as center frequency and then repeat step b to step d.

(4) Measuring of leak power of lower neighboring channels (PI)

- Sweep at a 20MHz lower frequency (Detuning frequency specified in the equipment regulations) of carrier frequency as center frequency.
- Enter all values of data point to the computer as array variable.
- About all data, convert dB value to antilogarithm of electric power dimension.
- Add up the electric power of all data and record it as PU.
- Sweep with a 40MHz lower frequency (Detuning frequency specified in the equipment regulations) of carrier frequency as center frequency and then repeat step b to step d.



Test Setup Block Diagram

6.3 Test Data and Results

Please refer to the section 5 of the Appendix B.

7. Transmitter Spurious Emissions

7.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3, the transmitter spurious emissions shall not exceed the following limit.

W52			
20MHz system		40MHz system	80MHz system
OBW: 18MHz or less	OBW: 18 ~ 20 MHz		
5,142 MHz or less : 2.5 μ W/MHz	5,142 MHz or less : 2.5 μ W/MHz	5,141.6 MHz or less : 2.5 μ W/MHz	5,123.2 MHz or less : 2.5 μ W/MHz
5,142 ~ 5,150 MHz : 15 μ W/MHz	5,142 ~ 5,150 MHz : 15 μ W/MHz	5,141.6 ~ 5,150 MHz : 15 μ W/MHz	5,123.2 ~ 5,150 MHz : 15 μ W/MHz
5,250 ~ 5,251 MHz : $10^{1-(f-5250)/10}$ mW/MHz	5,250 ~ 5,251 MHz : $10^{1-(f-5250)/10}$ mW/MHz	5,250 ~ 5,251 MHz : $10^{-(f-5250)/10+10}$ mW/MHz	5,250 ~ 5,251 MHz : $10^{-(f-5250)/10+10}$ mW/MHz
5,251 ~ 5,260 MHz : $10^{1-(f-5250)/10}$ mW/MHz	5,251 ~ 5,260 MHz : $10^{1-(f-5250)/10}$ mW/MHz	5,251 ~ 5,270 MHz : $10^{-(f-5250)/10+10}$ mW/MHz	5,251 ~ 5,260 MHz : $10^{-(f-5250)/10+10}$ mW/MHz
5,260 ~ 5,266.7 MHz : $10^{1-(f-5260)/10}$ mW/MHz	5,260 ~ 5,266.7 MHz : $10^{1-(f-5260)/10}$ mW/MHz	5,270 ~ 5,278.4 MHz : $10^{-(f-5270)/10+10}$ mW/MHz	5,260 ~ 5,266.7 MHz : $10^{-(f-5260)/10+10}$ mW/MHz
5,266.7 MHz or more : 2.5 μ W/MHz	5,266.7 MHz or more : 2.5 μ W/MHz	5,278.4 MHz or more : 2.5 μ W/MHz	5,266.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)

W53			
20MHz system		40MHz system	80MHz system
OBW: 18MHz or less	OBW: 18 ~ 20 MHz		
5,233.3 MHz or less : 2.5 μ W/MHz	5,233.3 MHz or less : 2.5 μ W/MHz	5,221.6 MHz or less : 2.5 μ W/MHz	5,203.3 MHz or less : 2.5 μ W/MHz
5,233.3 ~ 5,240 MHz : $10^{1-(f-5233)/10}$ mW/MHz	5,233.3 ~ 5,240 MHz : $10^{1-(f-5233)/10}$ mW/MHz	5,221.6 ~ 5,230 MHz : $10^{-(f-5220)/10+10}$ mW/MHz	5,203.3 ~ 5,210 MHz : $10^{-(f-5200)/10+10}$ mW/MHz
5,240 ~ 5,249 MHz : $10^{1-(f-5240)/10}$ mW/MHz	5,240 ~ 5,249 MHz : $10^{1-(f-5240)/10}$ mW/MHz	5,230 ~ 5,249 MHz : $10^{-(f-5230)/10+10}$ mW/MHz	5,210 ~ 5,249 MHz : $10^{-(f-5210)/10+10}$ mW/MHz
5,249 ~ 5,250 MHz : $10^{1-(f-5249)/10}$ mW/MHz	5,249 ~ 5,249 MHz : $10^{1-(f-5249)/10}$ mW/MHz	5,249 ~ 5,250 MHz : $10^{-(f-5249)/10+10}$ mW/MHz	5,249 ~ 5,250 MHz : $10^{-(f-5249)/10+10}$ mW/MHz
5,250 ~ 5,250.8 MHz : $10^{1-(f-5250)/10}$ mW/MHz	5,249.8 ~ 5,250.8 MHz : $10^{1-(f-5250)/10}$ mW/MHz	5,350 ~ 5,358.4 MHz : 15 μ W/MHz	5,350 ~ 5,376.8 MHz : 15 μ W/MHz
5,250.8 MHz or more : 2.5 μ W/MHz	5,350 MHz or more : 2.5 μ W/MHz	5,358.4 MHz or more : 2.5 μ W/MHz	5,376.8 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)

W56			
20MHz system		40MHz system	80MHz system
DSSS, etc.	OFDM		
5,470 MHz or less : 12.5 μ W/MHz	5,460 MHz or less : 2.5 μ W/MHz	5,460 MHz or less : 12.5 μ W/MHz	5,460 MHz or less : 12.5 μ W/MHz
	5,460 ~ 5,470 MHz : 12.5 μ W/MHz	5,460 ~ 5,470 MHz : 12.5 μ W/MHz	5,460 ~ 5,469.5 MHz : 50 μ W/MHz
5,730 MHz or more : 12.5 μ W/MHz	5,745 ~ 5,765 MHz : 12.5 μ W/MHz	5,770 MHz or more : 12.5 μ W/MHz	5,469.5 ~ 5,470 MHz : 51.2 μ W/MHz
	Over 5,765 MHz : 2.5 μ W/MHz		5,770 MHz or more : 12.5 μ W/MHz

W52 + W53	W56	* A rated value is defined by the E.I.R.P.
160MHz system		* Measurement range: 30MHz to 26GHz
5,099.6 MHz or less : 2.5 μ W/MHz	5,419.6 MHz or less : 12.5 μ W/MHz	
5,099.6 ~ 5,150 MHz : 15 μ W/MHz	5,419.6 ~ 5,470 MHz : 50 μ W/MHz	
5,350 ~ 5,400.4 MHz : 15 μ W/MHz	5,725 MHz or more : 12.5 μ W/MHz	
5,400.4 MHz or more : 2.5 μ W/MHz		

5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.53GHz & 5.69GHz
80MHz + 80MHz system (Not adjacent radio)		
5,134.8 MHz or less : 2.5 μ W/MHz	5,214.8 MHz or less : 2.5 μ W/MHz	5,419.6 MHz or less : 12.5 μ W/MHz
5,134.8 ~ 5,150 MHz : 162.5 μ W/MHz	5,214.8 ~ 5,249 MHz : $10^{-(f-5210)/10+10}$ mW/MHz	5,419.6 ~ 5,470 MHz : 50 μ W/MHz
5,250 ~ 5,251 MHz : $10^{-(f-5250)/10+10}$ mW/MHz	5,249 ~ 5,250 MHz : $10^{-(f-5240)/10+10}$ mW/MHz	5,770 MHz or more : 15 μ W/MHz
5,251 ~ 5,285.2 MHz : $10^{-(f-5250)/10+10}$ mW/MHz	5,350 ~ 5,365.2 MHz : 15 μ W/MHz	
5,285.2 ~ 5,370 MHz : 2.5 μ W/MHz	5,365.2 ~ 5,410 MHz : 2.5 μ W/MHz	
5,370 ~ 5,454.8 MHz (When used simultaneously with a 5.2GHz band high-power radio station : 12.5 μ W/MHz)	5,410 ~ 5,454.8 MHz : 2.5 μ W/MHz	
5,454.8 ~ 5,470 MHz (When used simultaneously with a 5.2GHz band high-power radio station : 50 μ W/MHz)	5,454.8 ~ 5,470 MHz : 15 μ W/MHz	
5,730 MHz or more : 15 μ W/MHz	5,730 MHz or more : 15 μ W/MHz	
(*When used 560MHz)	(*When used 560MHz)	
5,770 MHz or more : 15 μ W/MHz	5,770 MHz or more : 15 μ W/MHz	
f = MHz, Difference from 5210 (MHz)	f = MHz, Difference from 5290 (MHz)	

7.2 Test Procedure

- (1) A spectrum in case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz, and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.



Test Setup Block Diagram

7.3 Test Data and Results

Please refer to the section 5 of the Appendix B.

8. Receiver Spurious Emissions

8.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3, the receiver spurious emissions shall not exceed the following limit:

- (1) Below 1GHz : 4nW
- (2) 1GHz or higher : 20nW

8.2 Test Procedure

- (1) A spectrum in case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz, and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.



Test Setup Block Diagram

8.3 Test Data and Results

Please refer to the section 7 of the Appendix B.

9. Transmission Burst Length

9.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3, the transmission burst length is 8ms or less.

9.2 Test Procedure

(1) Set up the spectrum analyzer as the follows:

Center frequency Test frequency

Sweep bandwidth = 0Hz

Resoluble bandwidth = 1MHz

Video bandwidth equivalent to resolvable bandwidth

Sweep time Minimum time to assure measuring accuracy

Y-axis scale 10dB/Div.

Detection mode Positive peak

Trigger condition Rising up of level

(2) Set the scanning time of the spectrum analysis, capture at least 2 or more transmission burst, and reading the length of any one transmission burst.

(3) The transmission burst time shall be recorded.



Test Setup Block Diagram

9.3 Test Data and Results

Please refer to the section 6 of the Appendix B.

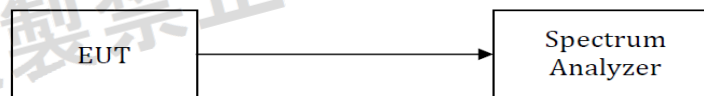
10. Carrier Sensing Function

10.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3, the device shall have the carrier sensing function.

10.2 Test Procedure

- (1) SG adjust the frequency as same as the EUT transmitted signal, un-modulation, power level 0dBm, Then turn off the RF signal
- (2) EUT have transmitted the maximum modulation signal and fixed channel
- (3) Setting of the SA following as RBW/VBW: 1/3MHz SPAN: 50MHz Sweep time: Auto continue PK
- (4) SG Signal on EUT shall be stop the transmitted, Then turn off the SG, The EUT shall be continuous transmitted signal.



Test Setup Block Diagram

10.3 Test Data and Results

Test Item	Test Mode	Bandwidth (MHz)	Test Result
Carrier Sensing Function	80.11a	20	Good
	80.11n	20	Good
	80.11n	40	Good
	80.11ac	20	Good
	80.11ac	40	Good
	80.11ac	80	Good
	80.11ax	20	Good
	80.11ax	40	Good
	80.11ax	80	Good

11. Interference Prevention Function

11.1 Standard and Limit

According to Article 2 Paragraph 1 of Item 19-3, the device shall have the function of automatic transmission or reception of identification code.

11.2 Test Procedure

- (1) Set the EUT in the usual operation condition.
- (2) The radio equipment with automatic transmitting function of identification code.
 - a. Transmit the assigned identification code from the radio equipment.
 - b. Confirm the identification code received by the demodulator.
- (3) The radio equipment with automatic receiving function of identification code.
 - a. Transmit the assigned identification code from the opposite equipment.
 - b. Confirm that the usual communication is available.
 - c. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - d. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
- (4) The identification function shall be recorded.



Test Setup Block Diagram

11.3 Test Data and Results

Test Items	Test Result
Transmitting Function of Identification Code	Good
Receiving Function of Identification Code	Good

MAC Address: F7:2F:8B:3B:A6:1D

***** END OF REPORT *****