



TEST REPORT

Applicant : NSK Co., Ltd.
Address : 1-10-15 Daiko Higashi-ku, Nagoya-shi, Aichi-ken, 461-0043, Japan
Manufacturer : NSK Co., Ltd.
Address : 1-10-15 Daiko Higashi-ku, Nagoya-shi, Aichi-ken, 461-0043, Japan
Product Name : Monitor
Model Number : NS-31WRM
Trademark : N/A
Date of Receipt : Jun. 10, 2026
Test Date : Jun. 10, 2026 - Jul. 29, 2026
Date of Report : Jul. 29, 2026

Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the Article 2 Paragraph 1 of Item 19-3 requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:
Standards : Article 2 Paragraph 1 of Item 19-3

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1. General Information

1.1. Description of Device (EUT)

EUT Name : Monitor

Model No. : NS-31WRM

Model Difference : N/A

Power supply : Input: DC 12V

Operation frequency : 802.11a/n/ac (HT20):
W52: 5180-5240MHz, W53: 5260-5320MHz(DFS),
W56: 5500-5720MHz(DFS)
802.11n/ac (HT40):
W52: 5190-5230MHz, W53: 5270-5310MHz(DFS),
W56: 5510-5710MHz(DFS)

Declared Power : **5.3G WLAN:**
IEEE 802.11a: 5260MHz-5320MHz, 2mW/MHz;
IEEE 802.11n(HT20): 5260MHz-5320MHz, 3mW/MHz;
IEEE 802.11n(HT40): 5270MHz-5310MHz, 1mW/MHz;
IEEE 802.11ac(VHT20): 5260MHz-5320MHz, 1mW/MHz;
IEEE 802.11ac(VHT40): 5270MHz-5310MHz, 1mW/MHz;
5.6G WLAN:
IEEE 802.11a: 5500MHz-5720MHz, 2mW/MHz;
IEEE 802.11n(HT20): 5500MHz-5720MHz, 3mW/MHz;
IEEE 802.11n(HT40): 5510MHz-5710MHz, 1mW/MHz;
IEEE 802.11ac(VHT20): 5500MHz-5720MHz, 1mW/MHz;
IEEE 802.11ac(VHT40): 5510MHz-5710MHz, 1mW/MHz

Modulation : Orthogonal Frequency Division Multiplexing(OFDM)

Antenna Type : External antenna, Maximum Gain is 5.40dBi

Intend use environment : Residential, commercial and light industrial environment

DFS Description : The product belongs to Slave without radar detection function device and is controlled by the master device

Adapter Information : N/A

Hardware version : V1.0

Software version : V1.0.0

1.2. Channel List

W52 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	/	/
44	5220	46	5230
48	5240	/	/

W53 (5.25-5.35GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	54	5270
56	5280	/	/
60	5300	62	5310
64	5320		

W56 (5.47-5.725GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	102	5510
104	5520	/	/
108	5540	110	5550
112	5560	114	5570
116	5580	118	5590
120	5600	/	/
124	5620	126	5630
128	5640	132	5660
134	5670	136	5680
138	5690	140	5700
142	5710	144	5720

1.3. Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna Power	Article 2 Paragraph 1 of Item 19-3	PASS
Tolerances for Antenna Power	Article 2 Paragraph 1 of Item 19-3	PASS
Frequency Tolerance	Article 2 Paragraph 1 of Item 19-3	PASS
Transmission Burst Length	Article 2 Paragraph 1 of Item 19-3	PASS
Occupied Frequency Bandwidth	Article 2 Paragraph 1 of Item 19-3	PASS
Adjacent Channel Emitted Power	Article 2 Paragraph 1 of Item 19-3	PASS
Carrier sense function	Article 2 Paragraph 1 of Item 19-3	PASS
Unwanted Emissions Strength	Article 2 Paragraph 1 of Item 19-3	PASS
Secondary Radiated Emissions	Article 2 Paragraph 1 of Item 19-3	PASS
Interference prevention function	Article 2 Paragraph 1 of Item 19-3	PASS
Dynamic Frequency Selection(DFS)	Article 2 Paragraph 1 of Item 19-3	N/A ^{note1}

Remark:
N/A is an abbreviation for Not Applicable.

note1: (W53) (W56): Slave Station

(Controlled by Master)

It has the following functions.

*Chooses the frequency which transmits automatically by the control from a "master station".

*Transmission and a stop of a radio wave are performed by the control from a "master station".

1.4. Test mode

The special RF test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
Transmitting(802.11a HT20)	36/52/100	40/60/120	48/64/144
Transmitting(802.11n HT20)	36/52/100	40/60/120	48/64/144
Transmitting(802.11ac HT20)	36/52/100	40/60/120	48/64/144
Transmitting(802.11n HT40)	38/54/102	118	46/62/142
Transmitting(802.11ac HT40)	38/54/102	118	46/62/142
Receiving(802.11a HT20)	36/52/100	40/60/120	48/64/144
Receiving(802.11n HT20)	36/52/100	40/60/120	48/64/144
Receiving(802.11ac HT20)	36/52/100	40/60/120	48/64/144
Receiving (802.11n HT40)	38/54/102	118	46/62/142
Receiving (802.11ac HT40)	38/54/102	118	46/62/142

1.5. Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	/
Humidity range	20-75%	/
Pressure range	86-106kPa	/
Power supply	DC 12V	/

Note: Have been confirmed the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1% when the power supply to the product varies at +/-10% by Manufacturer, So the following test items are conducted in the normal voltage.
The Test Report 'NVNT' Means Normal Test Conditions

1.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	

1.7. Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
Adapter	BKC	AC-DC088	/	/

1.8. Test Facility

Site Description	
Name of Firm	: Shenzhen BKC Testing Co., Ltd.
Site Location	: Room103, 1/F, Huaya Building, Huaya Industrial Park, Yousong Community, Longhua Subdistrict, Longhua District, Shenzhen, Guangdong, China

1.9. Test Equipment

Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 20. 2025	Mar. 19. 2027
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 11. 2026	Mar. 10. 2027
3	Preamplifier	HP	8447D	2727A05345	Mar. 11. 2026	Mar. 10. 2027
4	Double Ridged Broadband	SCHWARZBECK	BBHA 9120D	02621	Mar. 11. 2026	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 11. 2026	Mar. 10. 2027
6	Rf cables	HUBER+SUHNER	8M-RE	N/A	Mar. 11. 2026	Mar. 10. 2027
7	Rf cables	HUBER+SUHNER	1.5M-RE	N/A	Mar. 11. 2026	Mar. 10. 2027
8	Rf cables	HUBER+SUHNER	1.5M-AP-RE	N/A	Mar. 11. 2026	Mar. 10. 2027
9	Loop antenna	ANRF	ANRF-6603	091802	Mar. 13. 2026	Mar. 12. 2027
10	Spectrum analyzer	R&S	FSP40	200061	Mar. 11. 2026	Mar. 10. 2027
11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 11. 2026	Mar. 10. 2027
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 11. 2026	Mar. 10. 2027
13	Band Stop Filter	Bafang	BSF5G	2024052610	Mar. 11. 2026	Mar. 10. 2027
14	RE Testing software	EZ	EZ-EMC	/	/	/

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 11. 2026	Mar. 10. 2027
2	Vector source	Agilent	N5182A	MY47420223	Mar. 11. 2026	Mar. 10. 2027
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 11. 2026	Mar. 10. 2027
4	control unit	MW	MW100-RFCB	MW200411BK-34	Mar. 11. 2026	Mar. 10. 2027
5	RF Testing software	MW	MTS 8310	/	/	/
6	Spectrum analyzer	R&S	FSP40	200061	Mar. 11. 2026	Mar. 10. 2027

Note: The attenuator and power meter are already included in the control unit.

Antenna calibration: Shenzhen Academy of Metrology & Quality Inspection;

Other: Bay Area Metrology Services Co., Ltd;

Remark:

Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

Test software

Software name	RF Testing software
Software version	2.0.0.0
Software name	RE EMI Testing software
Software version	EMEC-03A2 RE+

Remark:

(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c) From JRL Article 24-2, paragraph 4, Item

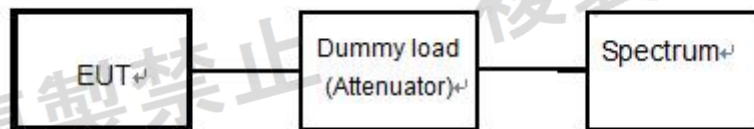
2. Frequency Tolerance

2.1. Limit

According to Radio Law of Japan Article 2 Paragraph 1 of Item 19-3, the Tolerance of frequency: $\pm 50 \times 10^{-6}$.

Limit
20ppm

2.2. Test Setup



2.3. Test Procedure

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency Spectrum.
 - (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
 - (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
 - (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.
- In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

2.4. Test Result

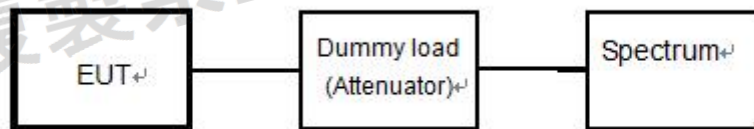
Please see the attachment for data.

3. Antenna Power Error Measurement

3.1. Limit

Item	Limits
Antenna Power Density	10mW/Mhz(Occupied Bandwidth: 20MHz) 5mW/Mhz(Occupied Bandwidth: 40MHz) 2.5mW/Mhz(Occupied Bandwidth: 80MHz) 1.25mW/Mhz(Occupied Bandwidth: 160MHz)
Antenna Power Error	W52,W53,+20%, -80% (Base on manufacturer declare antenna power density) W56,+50%, -50% (Base on manufacturer declare antenna power density)

3.2. Test Setup



3.3. Test Procedure

1. Setting of SA is following as: RB: 1000KHz / VB:3000KHz / SPAN: 40MHz/80MHz/160MHz / AT: 30dB Ref: 20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

2. Configure the spectrum analyzer to Burst Power measurement mode.

Set instrument parameters: Center frequency = target channel frequency, RBW = 1 MHz, sweep time = 10 ms, attenuator = 30 dB, IF Gain = Low.

Set amplitude thresholds: Absolute threshold = Auto, relative threshold = -30.00 dB.

Operate the EUT to transmit continuously on the target frequency channel.

Capture the time-domain power waveform, the instrument automatically calculates the average burst RMS power above threshold.

a. Record the measured average output power and save the screenshot.

3.4. Test Result

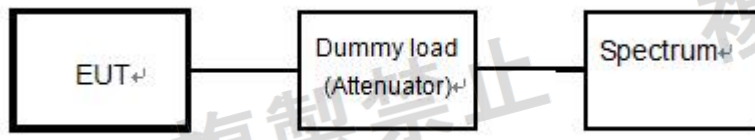
Please see the attachment for data.

4. Occupied Bandwidth(99%)

4.1. Limit

Item	Limits
W52/W53/W56	$\leq 18\text{MHz}$ (Others, Bandwidth = 18MHz) $\leq 20\text{MHz}$ (OFDM, Bandwidth = 20MHz) $\leq 40\text{MHz}$ (OFDM, Bandwidth = 40MHz) $\leq 80\text{MHz}$ (OFDM, Bandwidth = 80MHz) $\leq 160\text{MHz}$ (OFDM, Bandwidth = 160MHz)

4.2. Test Setup



4.3. Test Procedure

1. Setting of SA is following as: RB: 100KHz / VB:300KHz / SPAN: 40MHz/80MHz/160MHz / AT: 30dB Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) .SA set to 99% of occupied bandwidth to measure occupied bandwidth

4.4. Test Result

Please see the attachment for data.

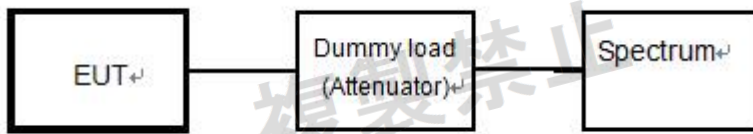
5. Unwanted Emission Strength Measurement

5.1. Limit

Item	Limit
W52	Bandwidth $\leq 18\text{MHz}$ $30\text{MHz} \sim 5142\text{MHz} : \leq 2.5 \mu\text{W/MHz}$, $5142\text{MHz} \sim 5150\text{MHz} : \leq 15 \mu\text{W/MHz}$ $5250\text{MHz} \sim 5251\text{MHz} : \leq 10^{1-(f-5240-9)} \text{ mW/MHz}$, $5251\text{MHz} \sim 5260\text{MHz} : \leq 10^{-1-(8/90)(f-5240-11)} \text{ mW/MHz}$ $5260\text{MHz} \sim 5266.7\text{MHz} : \leq 10^{-1.8-(6/50)(f-5240-20)} \text{ mW/MHz}$ $5266.7\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$ $18\text{MHz} < \text{Bandwidth} \leq 20\text{MHz}$ $30\text{MHz} \sim 5142\text{MHz} : \leq 2.5 \mu\text{W/MHz}$, $5142\text{MHz} \sim 5150\text{MHz} : \leq 15 \mu\text{W/MHz}$ $5250\text{MHz} \sim 5250.2\text{MHz} : \leq 10^{1-(8/3)(f-5240-9.75)} \text{ mW/MHz}$ $5250.2\text{MHz} \sim 5251\text{MHz} : \leq 10^{1-(f-5240-9)} \text{ mW/MHz}$ $5251\text{MHz} \sim 5260\text{MHz} : \leq 10^{-1-(8/90)(f-5240-11)} \text{ mW/MHz}$ $5260\text{MHz} \sim 5266.7\text{MHz} : \leq 10^{-1.8-(6/50)(f-5240-20)} \text{ mW/MHz}$ $5266.7\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$ Bandwidth $\leq 40\text{MHz}$ $30\text{MHz} \sim 5141.6\text{MHz} : \leq 2.5 \mu\text{W/MHz}$, $5141.6\text{MHz} \sim 5150\text{MHz} : \leq 15 \mu\text{W/MHz}$ $5250\text{MHz} \sim 5251\text{MHz} : \leq 10^{-(f-5230-20)+\text{Log}(1/2)} \text{ mW/MHz}$ $5251\text{MHz} \sim 5270\text{MHz} : \leq 10^{-(8/190)(f-5230-21)-1+\text{Log}(1/2)} \text{ mW/MHz}$ $5270\text{MHz} \sim 5278.4\text{MHz} : \leq 10^{-(3/50)(f-5230-40)-1.8+\text{Log}(1/2)} \text{ mW/MHz}$ $5278.4\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$ Bandwidth $\leq 80\text{MHz}$ $30\text{MHz} \sim 5123.2\text{MHz} : \leq 2.5 \mu\text{W/MHz}$, $5123.2\text{MHz} \sim 5150\text{MHz} : \leq 15 \mu\text{W/MHz}$ $5250\text{MHz} \sim 5251\text{MHz} : \leq 10^{-(f-5210-40)+\text{Log}(1/4)} \text{ mW/MHz}$ $5251\text{MHz} \sim 5290\text{MHz} : \leq 10^{-(8/390)(f-5210-41)-1+\text{Log}(1/4)} \text{ mW/MHz}$ $5290\text{MHz} \sim 5296.7\text{MHz} : \leq 10^{-(3/100)(f-5210-80)-1.8+\text{Log}(1/4)} \text{ mW/MHz}$ $5296.7\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$ Bandwidth $\leq 160\text{MHz}$ $30\text{MHz} \sim 5099.6\text{MHz} : \leq 2.5 \mu\text{W/MHz}$, $5099.6\text{MHz} \sim 5150\text{MHz} : \leq 15 \mu\text{W/MHz}$ $5350\text{MHz} \sim 5400.4\text{MHz} : \leq 15 \mu\text{W/MHz}$, $5400.4\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$
W53	Bandwidth $\leq 18\text{MHz}$ $30\text{MHz} \sim 5233.3\text{MHz} : \leq 2.5 \mu\text{W/MHz}$ $5233.3\text{MHz} \sim 5240\text{MHz} : \leq 10^{-1.8-(6/50)(f-5260-20)} \text{ mW/MHz}$ $5240\text{MHz} \sim 5249\text{MHz} : \leq 10^{-1-(8/90)(f-5260-11)} \text{ mW/MHz}$ $5249\text{MHz} \sim 5250\text{MHz} : \leq 10^{1-(f-5260-9)} \text{ mW/MHz}$ $5350\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$ $18\text{MHz} < \text{Bandwidth} \leq 20\text{MHz}$ $30\text{MHz} \sim 5233.3\text{MHz} : \leq 2.5 \mu\text{W/MHz}$ $5233.3\text{MHz} \sim 5240\text{MHz} : \leq 10^{-1.8-(6/50)(f-5260-20)} \text{ mW/MHz}$ $5240\text{MHz} \sim 5249\text{MHz} : \leq 10^{-1-(8/90)(f-5260-11)} \text{ mW/MHz}$ $5249\text{MHz} \sim 5249.8\text{MHz} : \leq 10^{1-(f-5260-9)} \text{ mW/MHz}$ $5249.8\text{MHz} \sim 5250\text{MHz} : \leq 10^{1-(8/3)(f-5260-9.75)} \text{ mW/MHz}$ $5350\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$ Bandwidth $\leq 40\text{MHz}$ $30\text{MHz} \sim 5221.6\text{MHz} : \leq 2.5 \mu\text{W/MHz}$ $5221.6\text{MHz} \sim 5230\text{MHz} : \leq 10^{-(3/50)(f-5270-40)-1.8+\text{Log}(1/2)} \text{ mW/MHz}$ $5230\text{MHz} \sim 5249\text{MHz} : \leq 10^{-(8/190)(f-5270-21)-1+\text{Log}(1/2)} \text{ mW/MHz}$ $5249\text{MHz} \sim 5250\text{MHz} : \leq 10^{-(f-5270-20)+\text{Log}(1/2)} \text{ mW/MHz}$ $5350\text{MHz} \sim 5358.4\text{MHz} : \leq 15 \mu\text{W/MHz}$, $5358.4\text{MHz} \sim 26\text{GHz} : \leq 2.5 \mu\text{W/MHz}$ Bandwidth $\leq 80\text{MHz}$

	30MHz ~ 5203.3MHz : $\leq 2.5 \mu\text{W/MHz}$ 5203.3MHz ~ 5210MHz : $\leq 10^{-(3/100)(f-5290-80)-1.8+\text{Log}(1/4)} \text{ mW/MHz}$ 5210MHz ~ 5249MHz : $\leq 10^{-(8/390)(f-5290-41)-1+\text{Log}(1/4)} \text{ mW/MHz}$ 5249MHz ~ 5250MHz : $\leq 10^{-(f-5290-40)+\text{Log}(1/4)} \text{ mW/MHz}$ 5350MHz ~ 5376.8MHz : $\leq 15 \mu\text{W/MHz}$ 5376.8MHz ~ 26GHz : $\leq 2.5 \mu\text{W/MHz}$ Bandwidth $\leq 160\text{MHz}$ 30MHz ~ 5099.6MHz : $\leq 2.5 \mu\text{W/MHz}$, 5099.6MHz ~ 5150MHz : $\leq 15 \mu\text{W/MHz}$ 5350MHz ~ 5400.4MHz : $\leq 15 \mu\text{W/MHz}$, 5400.4MHz ~ 26GHz : $\leq 2.5 \mu\text{W/MHz}$
W56	Bandwidth $\leq 20\text{MHz}$ (Others) 30MHz ~ 5470MHz : $\leq 12.5 \mu\text{W/MHz}$, 5730MHz ~ 26GHz : $\leq 12.5 \mu\text{W/MHz}$ Bandwidth $\leq 20\text{MHz}$ (OFDM) 30MHz ~ 5460MHz : $\leq 2.5 \mu\text{W/MHz}$, 5460MHz ~ 5470MHz : $\leq 12.5 \mu\text{W/MHz}$ 5745MHz ~ 5765MHz : $\leq 12.5 \mu\text{W/MHz}$, 5765MHz ~ 26GHz : $\leq 2.5 \mu\text{W/MHz}$ Bandwidth $\leq 40\text{MHz}$ 30MHz ~ 5460MHz : $\leq 12.5 \mu\text{W/MHz}$, 5460MHz ~ 5470MHz : $\leq 50 \mu\text{W/MHz}$ 5770MHz ~ 26GHz : $\leq 12.5 \mu\text{W/MHz}$ Bandwidth $\leq 80\text{MHz}$ 30MHz ~ 5460MHz : $\leq 12.5 \mu\text{W/MHz}$, 5460MHz ~ 5469.5MHz : $\leq 50 \mu\text{W/MHz}$ 5469.5MHz ~ 5470MHz : $\leq 51.2 \mu\text{W/MHz}$, 5770MHz ~ 26GHz : $\leq 12.5 \mu\text{W/MHz}$ Bandwidth $\leq 160\text{MHz}$ 30MHz ~ 5419.6MHz : $\leq 12.5 \mu\text{W/MHz}$, 5419.6MHz ~ 5470MHz : $\leq 50 \mu\text{W/MHz}$ 5725MHz ~ 26GHz : $\leq 12.5 \mu\text{W/MHz}$

5.2. Test setup



5.3. Test Procedure

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold

5.4. Test Result

Please see the attachment for data.

Note: For 30-1000MHz test data, the RBW of the spectrum analyzer is 100Khz, and the corresponding limit is -36dBm. When the RBW is 1Mhz, the corresponding limit is -26dBm. The data measured with RBW=100KHz needs to add 10dbm to get the calculated data of RBW=1Mhz

6. Adjacent Channel Leakage Power Measurement

6.1. Limit

Item	Limit
W52 / W53	Bandwidth $\leq$ 18MHz (Measuring BW=20MHz)
	$\pm 20\text{MHz}$: $\leq$ 25dBc
	$\pm 40\text{MHz}$: $\leq$ 40dBc
	Bandwidth $\leq$ 20MHz (Measuring BW=20MHz)
	$\pm 20\text{MHz}$: $\leq$ 25dBc
	$\pm 40\text{MHz}$: $\leq$ 40dBc
	Bandwidth $\leq$ 40MHz (Measuring BW=40MHz)
	$\pm 40\text{MHz}$: $\leq$ 25dBc
	$\pm 80\text{MHz}$: $\leq$ 40dBc
	Bandwidth $\leq$ 80MHz (Measuring BW=80MHz)
W56	$\pm 80\text{MHz}$: $\leq$ 25dBc
	Bandwidth $\leq$ 18MHz (Measuring BW=20MHz)
	$\pm 20\text{MHz}$: $\leq$ 25dBc
	$\pm 40\text{MHz}$: $\leq$ 40dBc
	Bandwidth $\leq$ 20MHz (Measuring BW=20MHz)
	$\pm 20\text{MHz}$: $\leq$ 25dBc
	$\pm 40\text{MHz}$: $\leq$ 40dBc
	Bandwidth $\leq$ 40MHz (Measuring BW=40MHz)
	$\pm 40\text{MHz}$: $\leq$ 25dBc
	$\pm 80\text{MHz}$: $\leq$ 40dBc
	Bandwidth $\leq$ 80MHz (Measuring BW=80MHz)
	$\pm 80\text{MHz}$: $\leq$ 25dBc

6.2. Test Setup



6.3. Test Procedure

1. EUT have transmitted the maximum power and fixed channelize.
2. Setting of SA is following as: RBW:300kHz / VBW:300kHz, Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Sample / Trace mode: Max hold.
3. Use ACP function and setting measuring bandwidth = specific bandwidth / correct measuring rang.
4. Recode the test result and it should be less than specific limit.

6.4. Test Result

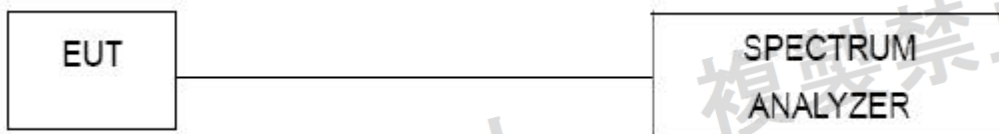
Please see the attachment for data.

7. Secondary Radiated Emissions

7.1. Limit

Item	Limit
W52/W53/W56	$\leq 4\text{nW} (f < 1\text{GHz})$
	$\leq 20\text{nW} (1\text{GHz} \leq f)$

7.2. Test Setup



7.3. Test Procedure

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW: 100KHz and VBW: 100KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.
3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 26000MHz. Search to mark peak reading value + cable loss shall be less than 20nW.
4. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

7.4. Test Result

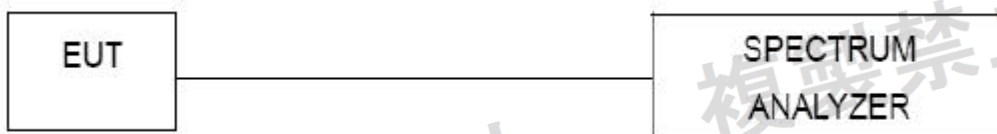
Please see the attachment for data.

8. Transmission Burst Length

8.1. Limit

Item	Limit
W52/W53/W56	$\leq 8\text{ms}$

8.2. Test Setup



8.3. Test Procedure

1. EUT have transmitted the maximum power and fixed channelize.
2. Setting of SA is following as: RBW: 1MHz / VBW: 3MHz / Zero Span / Detect mode: Positive peak / Trace mode: Clear Write / Single sweep
3. Use marker function to fine maximum burst length, and the length should be less than 8msec.

8.4. Test Result

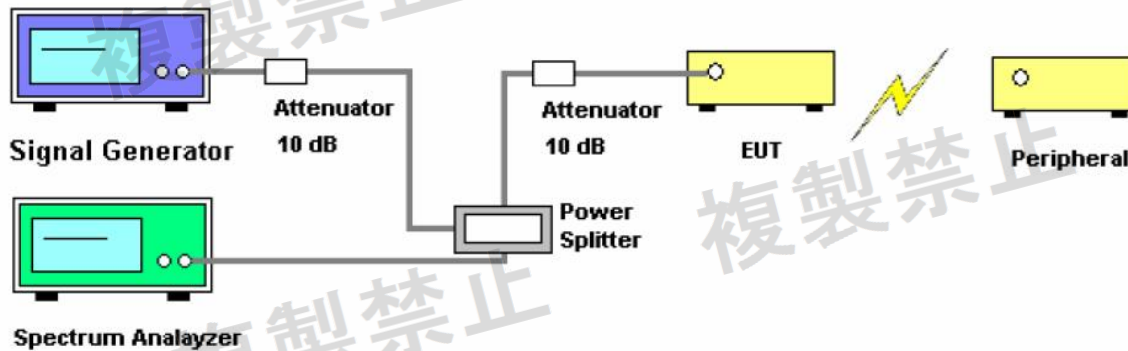
Please see the attachment for data.

9. Carrier Sensing Function

9.1. Limit

EUT stop RF transmission signal after carrier inject to EUT

9.2. Test Setup



9.3. Test Procedure

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(\text{on } 22.79 + G - 20 \cdot \log(f) \text{ dBm})$ (G is the antenna gain, f is the test frequency).
2. turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA :RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

9.4. Test Result

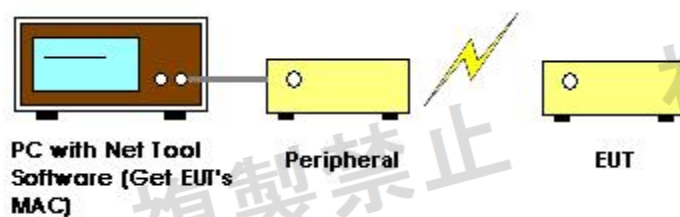
The EUT cannot transmit radio when the field strength at maximal gain direction of receiving antenna power is over 100mV/m; and Touch monitor can start to transmit after carrier sensing.

10. Interference prevention function

10.1. Limit

Item	Limits
Identification code	≥ 48 bits

10.2. Test Setup



10.3. Test Procedure

- In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

10.4. Test Result

The detected ID of the device is below:

19:PD:18:F6:19:D7

Test result: The device meet the requirements

PASS



11. Test Photographs

Reference to EUT photo attachment for details.

12. Photos of the EUT

Reference to EUT photo attachment for details.