

JAPAN SPECIFIED RADIO EQUIPMENT TEST REPORT

For

Z-Wave Smart Switch

Model : TD13320Z1

Trade Name : ECO LIFE ENGINEERING

Issued for

ECO LIFE ENGINEERING CO., LTD.

**5F, Shinjuku KM Bldg., 14-5 Shinjuku 1-Chome, Shinjuku-ku, Tokyo
160-0022, Japan**

Issued by

**Compliance Certification Services Inc.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	01/15/2018	Initial Issue	All Page 35	Gloria Chang

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1. TEST REPORT CERTIFICATION

Applicant : ECO LIFE ENGINEERING CO., LTD.
Address : 5F, Shinjuku KM Bldg., 14-5 Shinjuku 1-Chome, Shinjuku-ku,
Tokyo 160-0022, Japan
Equipment Under Test : Z-Wave Smart Switch
Model : TD13320Z1
Trade Name : ECO LIFE ENGINEERING
Tested Date : November 02 ~ 25, 2016

APPLICABLE STANDARD	
Standard	Test Result
MIC Article 2 Clause 1 Item 8	PASS

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Reviewed by:

Rueyyan.Lin

Rueyyan Lin
Sr. Engineer

Davis.Tseng

Davis Tseng
Sr. Engineer

2. EUT DESCRIPTION

Product Name	Z-Wave Smart Switch
Model Number	TD13320Z1
Identify Number	T170522D27
Received Date	November 02, 2016
Frequency Range	922.5MHz
Declaration Output Power	0.93 mW
Channel Number	1 Channels
Type of Modulation	GFSK
Antenna Type	Chip Antenna, Antenna Gain : -0.7 dBi
Power Rating	Input : 100Vac, 50/60Hz Output : 100Vac, 15A, 50/60Hz
Test Voltage	100Vac, 50Hz
I/O Port	Power Port × 1, Power Connector × 1
Software Version	V2.14
Hardware Version	V1.0
Serial No.	1

Remark : 1. For more details, please refer to the User's manual of the EUT.
2. This report is transferred from T161102D14-RJ.

3. SUMMARY OF TEST RESULTS

APPLIED STANDARD: MIC Article 2 Clause 1 Item 8 (ARIB STD T-108 Ver 1.0)		
Report Section	Test Type and Limit	Test Result
7.1	Antenna Power and Power Error	PASS
7.2	Frequency Tolerance	PASS
7.3	Occupied Bandwidth	PASS
7.4	Adjacent Channel Leakage Power	PASS
7.5	Unwanted Emission Intensity	PASS
7.6	Limitation of Collateral Emission of Receiver	PASS
7.7	Transmission Time Control Equipment	PASS
7.8	Carrier Sense Capability	-
7.9	Construction Protection Confirmation	PASS

Remark: EIRP power of EUT is lower than 1mW, so "Carrier Sense Capability" and " could be exempted tests.

4. TEST METHODOLOGY AND CONDITIONS

4.1 DESCRIPTION OF TEST MODES

The EUT (Z-Wave Smart Switch) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

GFSK: 922.5MHz were chosen for full testing.

4.2 TEST CONDITIONS

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input AC Power	5	5.5	4.5
Output DC Power	3.23	3.23	3.23
Voltage Variation (%)	-	0.000000	0.303030

Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%.Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

NO. 989-1 Wen Shan Rd., Shang Shan Village,
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan	TAF
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The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	INDUSTRY CANADA
Japan	VCCI
Taiwan	BSMI
USA	FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

5.3 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] 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)).

PARAMETER	UNCERTAINTY
DC Voltage	+/- 0.6104 dB
AC Voltage	+/- 1.2719 dB
Conducted Power	+/- 1.4574 dB
Conducted Emission, ACLP, TPC	+/- 2.7729 dB
RF frequency, 99% & 90% Bandwidth	+/- 3.8514×10^{-8} %
Humidity	+/- 3.0540 %
Temperature	+/- 0.6238 °C

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.
1	Notebook PC	TOSHIBA	PORTEGE R30-A	7F097009H
2	Z-Wave Dongle	---	---	---

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

1. EUT & peripherals setup diagram is shown in appendix setup photos.
2. Power on all equipment.
3. TX mode : 922.5MHz power default.
4. RX Mode : Start RX.
5. All of the functions are under run.
6. Start test.

7. TEST RESULT FOR Z-WAVE

7.1 ANTENNA POWER AND POWER ERROR

LIMIT

Antenna Power Density: $\leq 1\text{mW/MHz}$

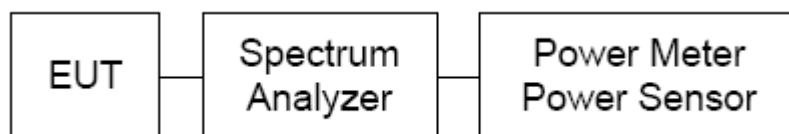
Antenna Power Error : +20%, -80%

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Agilent	N9010A	MY52220 817	03/16/2016	03/15/2017	ETC
Power Meter	Anritsu	ML2495A	1149001	12/09/2015	12/08/2016	ETC
Power Sensor	Anritsu	MA2411B	1126148	12/09/2015	12/08/2016	ETC
Test S/W	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURES

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1 MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument's range. The frequency found shall be recorded.
4. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% to - 80% power range that base on manufacturer declare the conducted power density.

TEST RESULTS

Please refer to Appendix II.

7.2 FREQUENCY TOLERANCE

LIMIT

Frequency tolerance : ≤ 20 ppm

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Agilent	N9010A	MY52220 817	03/16/2016	03/15/2017	ETC
Test S/W	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP

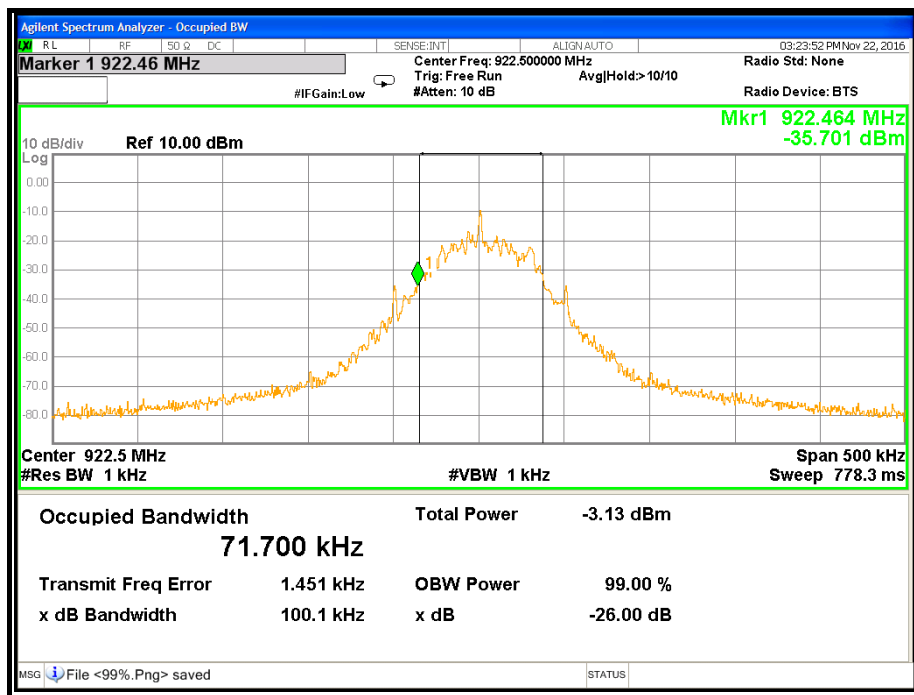


TEST PROCEDURES

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (2ppm)
2. Setting of SA is following as: RBW:1kHz / VBW:1kHz / SPAN: 500kHz / AT: 10dB / Ref: 10dBm
3. Center Frequency: The center frequency of testing for EUT
4. Sweep time: Auto
5. Sweep mode: Continuous sweep
6. Detect mode: Positive peak
7. Mark function: Frequency Counter (Resolution 100Hz)
8. EUT have transmitted absence of modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value, f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm or $[OBW(f_L + f_H)/2 - f_c]$ ppm and the limit is less than ± 20 ppm

TEST RESULTS

Please refer to Appendix II.

FREQUENCY TOLERANCE

7.3 OCCUPIED BANDWIDTH (99%)

LIMIT

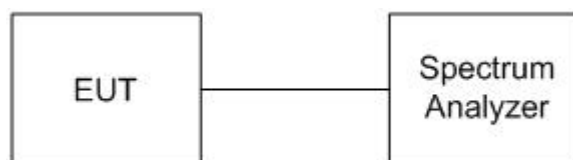
Occupied Band Width: $\leq 200\text{kHz}$

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Agilent	N9010A	MY52220 817	03/16/2016	03/15/2017	ETC
Test S/W	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP

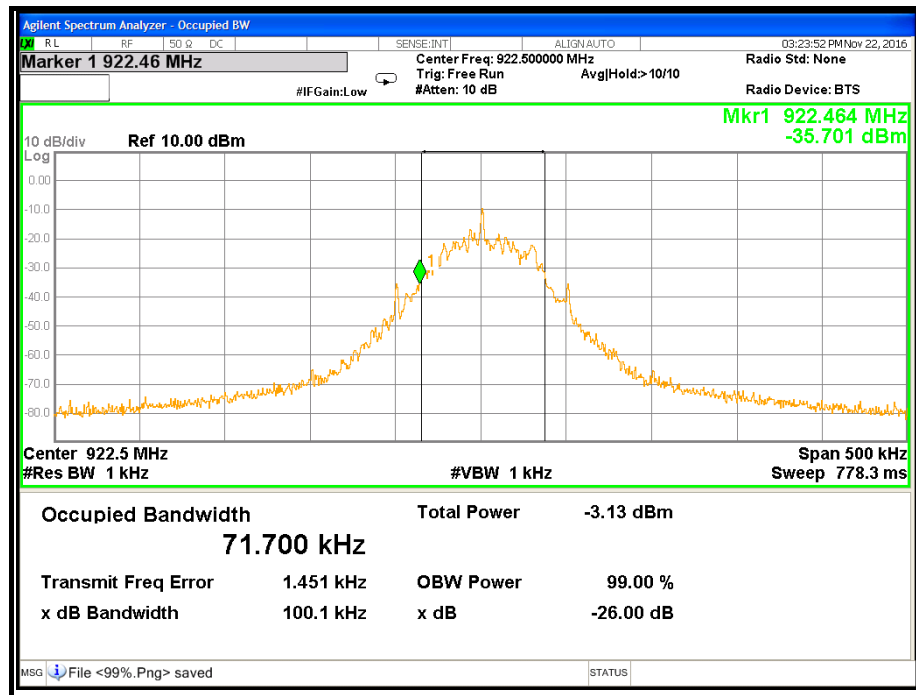


TEST PROCEDURES

- Setting of SA is following as: RBW:1kHz / VBW:1kHz / SPAN: 500kHz / AT: 10dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set to 99% of occupied bandwidth to measure occupied bandwidth.

TEST RESULTS

Please refer to Appendix II.

OCCUPIED BANDWIDTH (99%)

7.4 ADJACENT CHANNEL LEAKAGE POWER

LIMIT

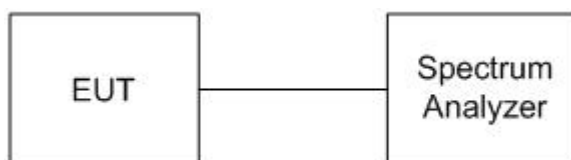
Adjacent Channel Leakage Power: ≤ -26 dBm

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Agilent	N9010A	MY52220 817	03/16/2016	03/15/2017	ETC
Test S/W	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



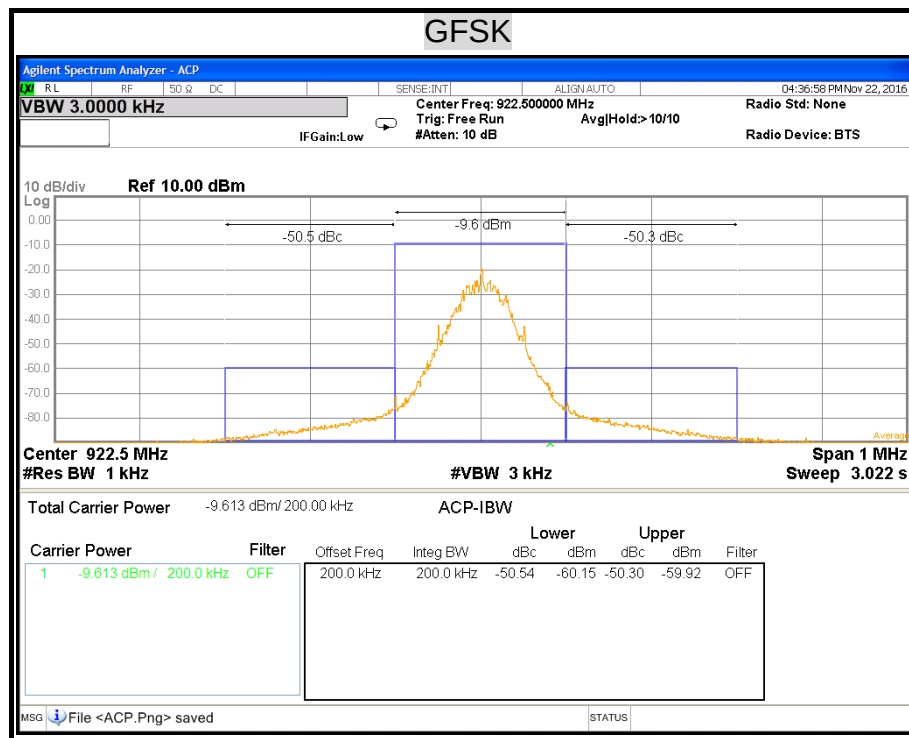
TEST PROCEDURES

- Setting of SA is following as: RBW:1kHz / VBW:3kHz / SPAN: 1MHz / AT: 10dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
- Sweep with every specified sweep bandwidth and find maximum power value of each band. Then transform the found values of "Pa" to "Poa" using following formula and if corresponding EIRP "Poa" (dBm/MHz) satisfies regulated limitation, skip the next procedure 3 and record the "Poa" as measurement results. Poa is calculated by following formula
$$Poa = Pa + Gt - Lf$$

Pa: found values in the measurement of out of band leakage power (dBm/MHz)
Gt: Antenna gain at the frequency of the found values (dBi)
Lf: Cable loss at the frequency of the found values (dB)
- If the "Poa" calculated from the found "Pa" with the following formula is over the regulated limit, set the spectrum analyzer according to following as: RBW: 1kHz / VBW: 3kHz / SPAN: 1MHz / AT: 10dB Ref: 10dBm / Sweep: Auto / Sweep Mode: Continuous sweep / Detect mode: Sample / Trace mode: Average.

TEST RESULTS

Please refer to Appendix II.

ADJACENT CHANNEL POWER

7.5 UNWANTED EMISSION INTENSITY

LIMIT

Frequency Band	Spurious emission / Unwanted Emission Intensity (average power)	Reference bandwidth
$f \leq 710 \text{ MHz}$	-36 dBm	100 kHz
$710 \text{ MHz} < f \leq 900 \text{ MHz}$	-55 dBm	1 MHz
$900 \text{ MHz} < f \leq 915 \text{ MHz}$	-55 dBm	100 kHz
$915 \text{ MHz} < f \leq 930 \text{ MHz}^*$ (Except for $ f-f_c \leq (200+100 \times n)$ kHz if bandwidth of unit radio channel is 200 kHz, except for $ f-f_c \leq (100+50 \times n)$ kHz if bandwidth of unit radio channel is 100 kHz. Except for $ f-f_c \leq (100+100 \times n)$ kHz if frequency band is $915.9 \text{ MHz} \leq f \leq 916.9 \text{ MHz}$ and $920.5 \text{ MHz} \leq 922.3 \text{ MHz}$. Where n is a number of unit radio channels constituting the radio channel and is an integer from 1 to 5)	-36 dBm	100 kHz
$930 \text{ MHz} < f \leq 1000 \text{ MHz}$	-55 dBm	100 kHz
$1000 \text{ MHz} < f \leq 1,215 \text{ MHz}$	-45 dBm	1 MHz
$1,215 \text{ MHz} < f$	-30 dBm	1 MHz

Remark: Permissible Values for Unwanted Emission Intensity in $915 \text{ MHz} < f \leq 925 \text{ MHz}$ shall be -55 dBm/100 kHz.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Agilent	N9010A	MY52220 817	03/16/2016	03/15/2017	ETC
Test S/W	N/A					

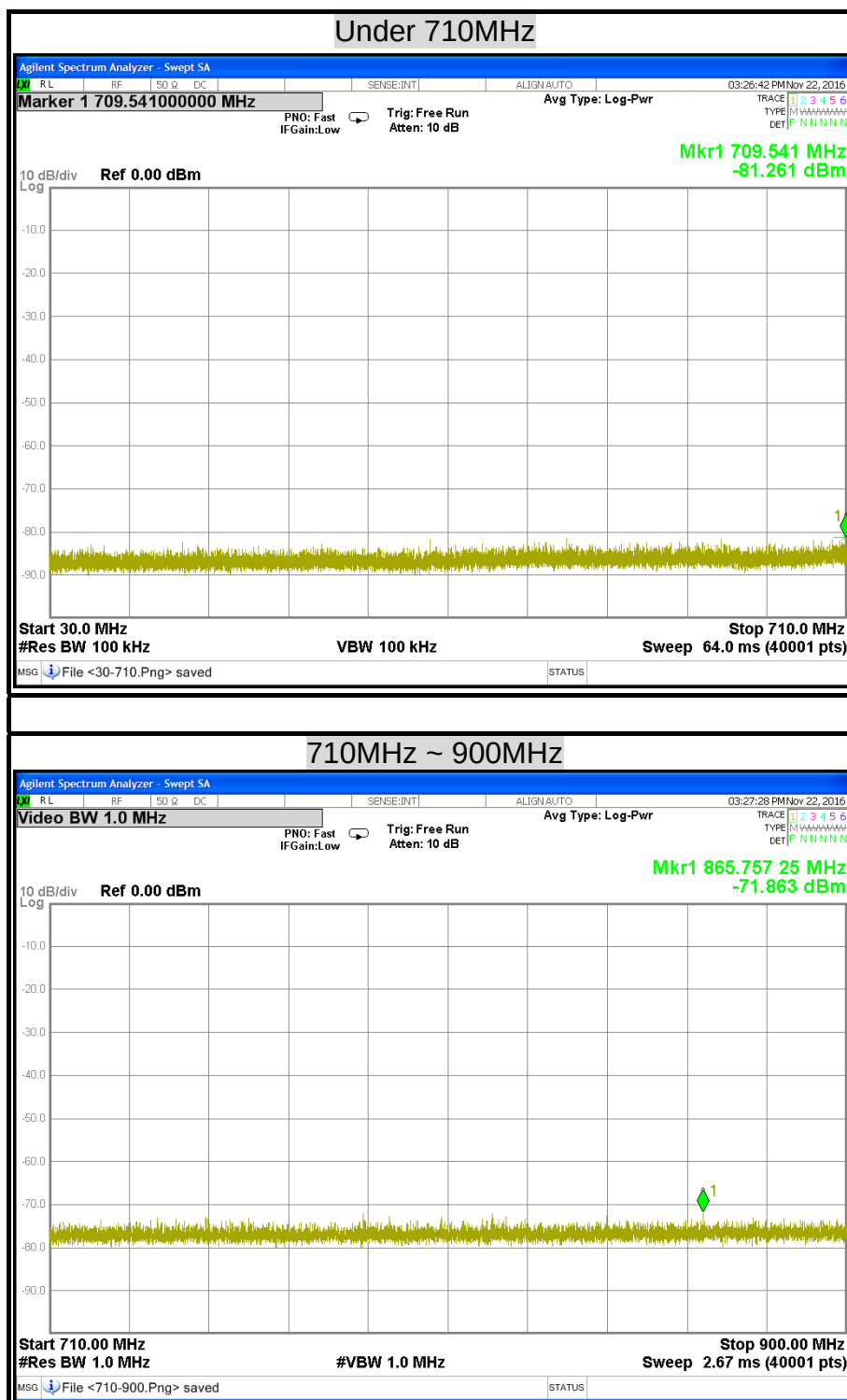
Remark: Each piece of equipment is scheduled for calibration once a year.

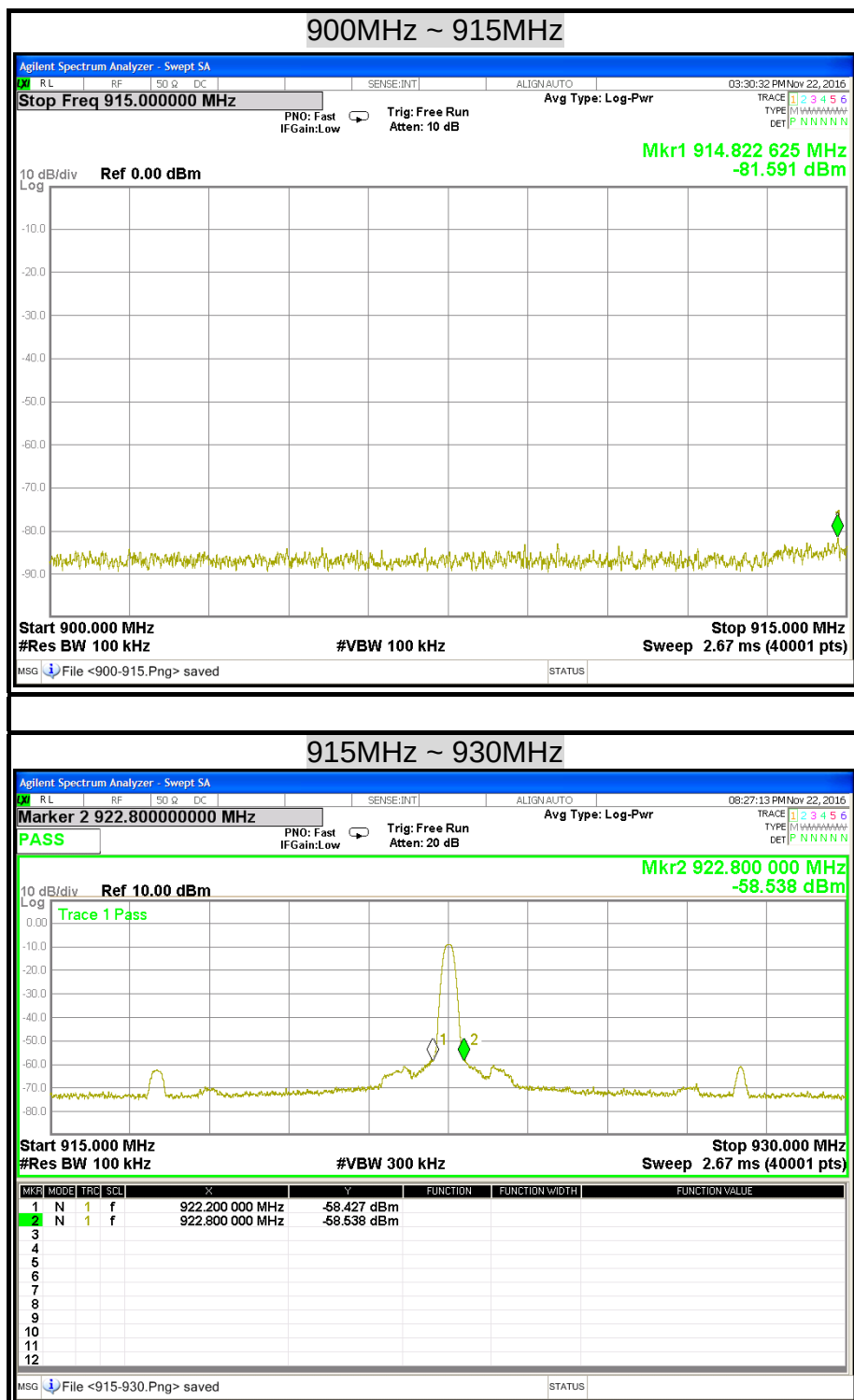
TEST SETUP**TEST PROCEDURES**

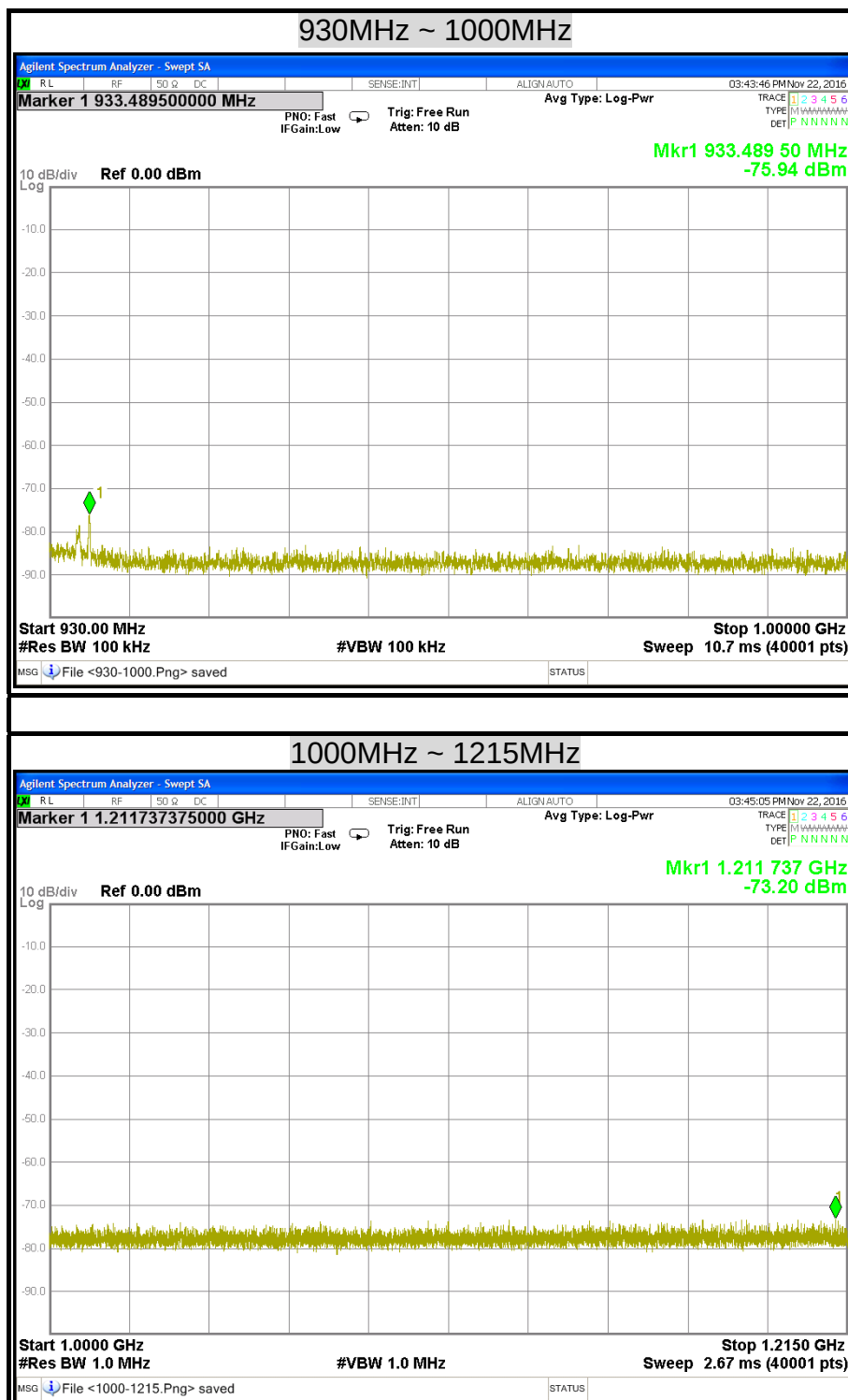
1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: RBW: 100kHz & 1MHz / VBW: 100kHz & 1MHz / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 30MHz and stop frequency 710MHz Then to mark peak reading value + cable loss shall be less than -36 dBm.
4. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 710MHz and stop frequency 900MHz. Search to mark peak reading value + cable loss shall be less than -55 dBm.
5. SA set RBW: 100kHz and VB: 300kHz. Then adjust to start frequency 900MHz and stop frequency 915MHz. Search to mark peak reading value + cable loss shall be less than -55 dBm.
6. SA set RBW: 100kHz and VB: 300kHz. Then adjust to start frequency 915MHz and stop frequency 930MHz. Search to mark peak reading value + cable loss shall be less than -36 dBm.
7. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 930MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than -55 dBm.
8. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 1215MHz. Search to mark peak reading value + cable loss shall be less than -45 dBm.
9. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1215MHz and stop frequency 5000MHz. Search to mark peak reading value + cable loss shall be less than -40 dBm.
10. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

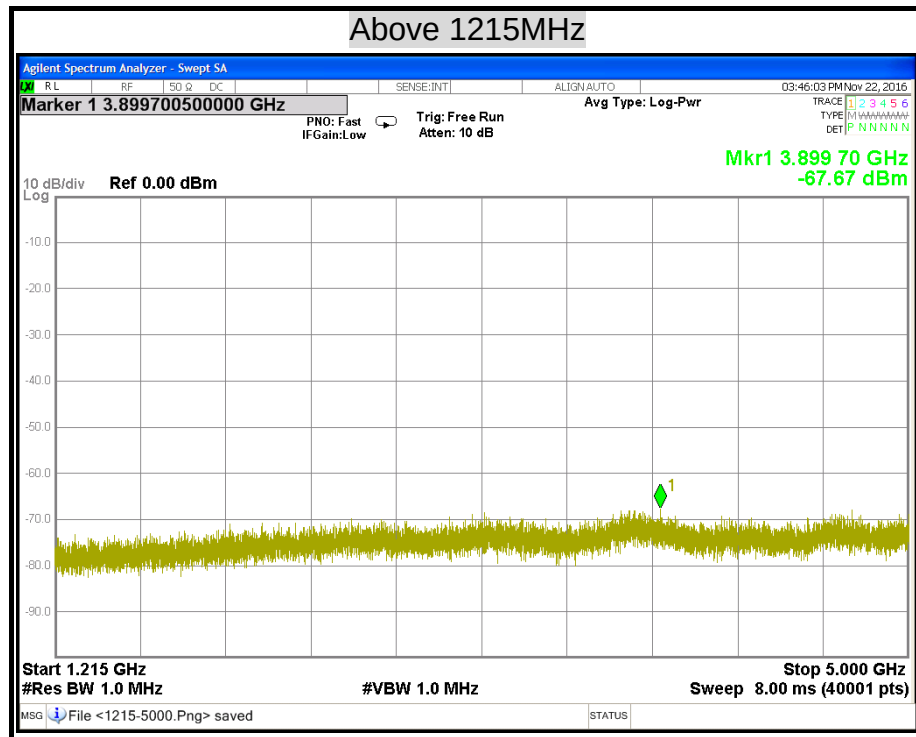
TEST RESULTS

Please refer to Appendix II.

SPURIOUS EMISSIONS INTENSITY







7.6 LIMITATION OF COLLATERAL EMISSION OF RECEIVER

LIMIT

Frequency Band	Limit on Secondary Radiated Emissions (Antenna input)	Reference bandwidth
$f \leq 710 \text{ MHz}$	-54 dBm	100 kHz
$710 \text{ MHz} < f \leq 900 \text{ MHz}$	-55 dBm	1 MHz
$900 \text{ MHz} < f \leq 915 \text{ MHz}$	-55 dBm	100 kHz
$915 \text{ MHz} < f \leq 930 \text{ MHz}$	-54 dBm	100 kHz
$930 \text{ MHz} < f \leq 1000 \text{ MHz}$	-55 dBm	100 kHz
$1000 \text{ MHz} < f$	-47 dBm	1 MHz

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Agilent	N9010A	MY52220 817	03/16/2016	03/15/2017	ETC
Test S/W	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP

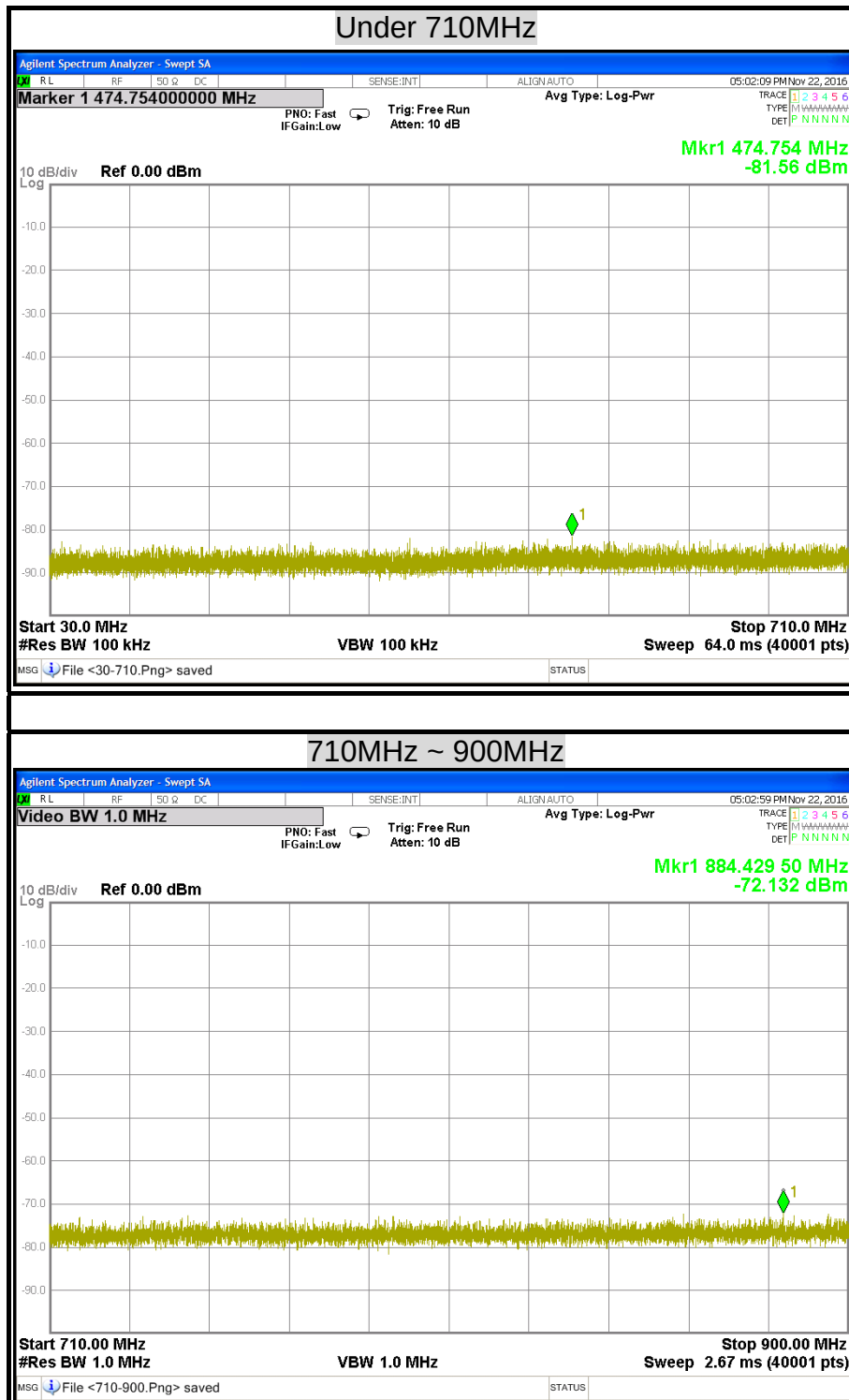


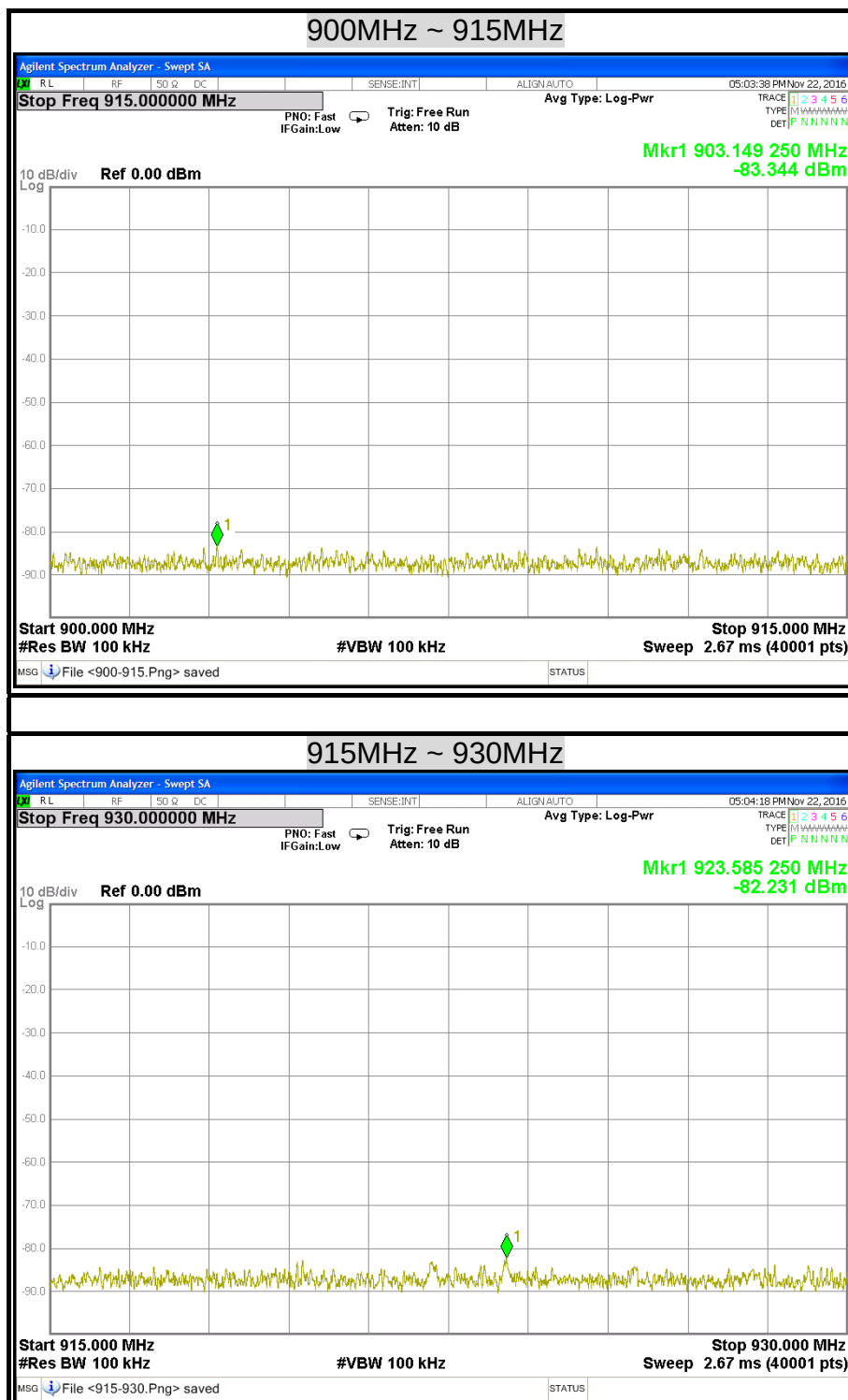
TEST PROCEDURES

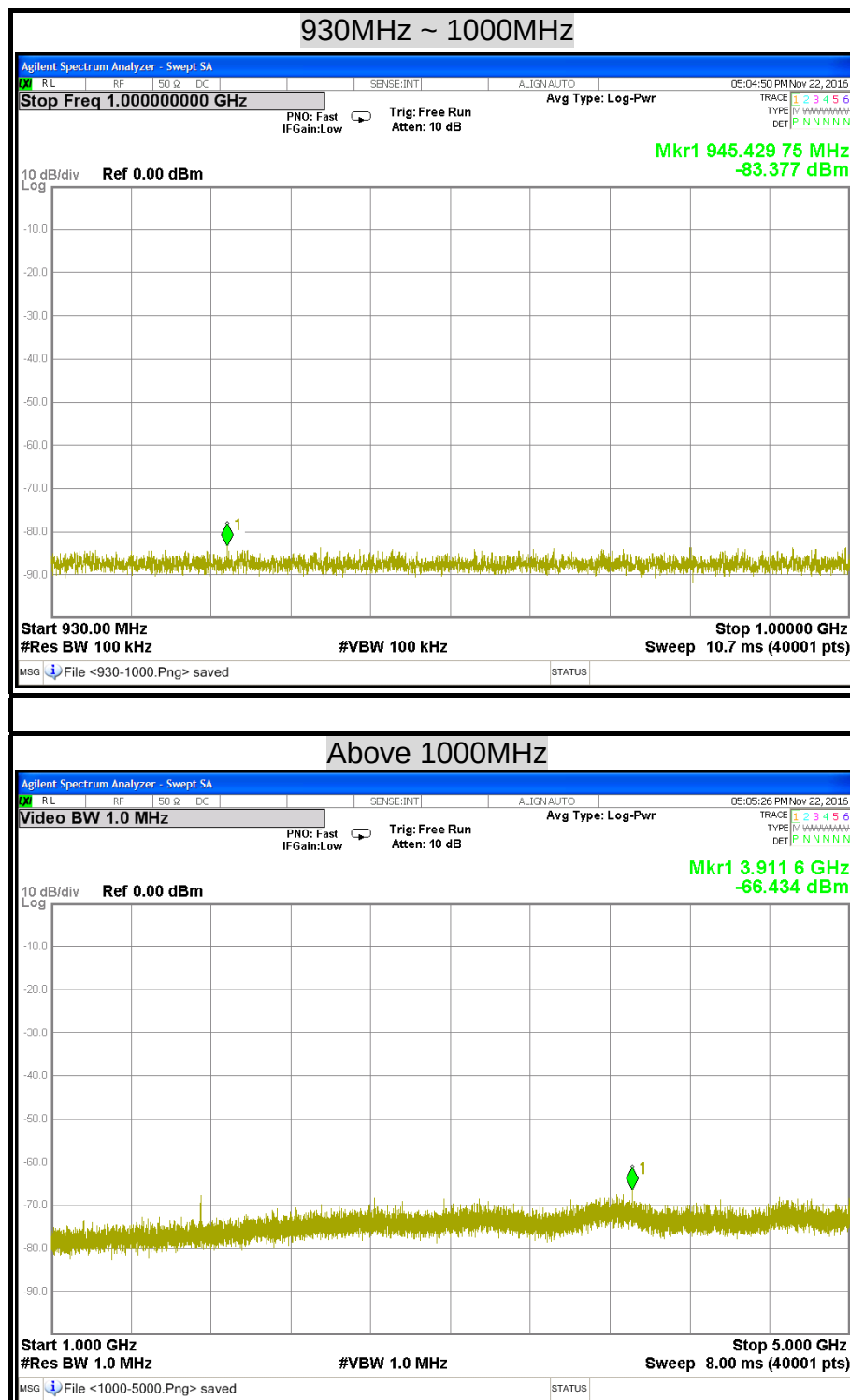
1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RBW / VBW: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 30MHz and stop frequency 710MHz Then to mark peak reading value + cable loss shall be less than -54 dBm.
4. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 710MHz and stop frequency 900MHz. Search to mark peak reading value + cable loss shall be less than -55 dBm.
5. SA set RBW: 100kHz and VB: 100kHz. Then adjust to start frequency 900MHz and stop frequency 915MHz. Search to mark peak reading value + cable loss shall be less than -55 dBm.
5. SA set RBW: 100kHz and VB: 100kHz. Then adjust to start frequency 915MHz and stop frequency 930MHz. Search to mark peak reading value + cable loss shall be less than -54 dBm.
6. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 930MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than -55 dBm.
7. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 5000MHz. Search to mark peak reading value + cable loss shall be less than -47 dBm.

TEST RESULTS

Please refer to Appendix II.

LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER





7.7 TRANSMISSION TIME CONTROL EQUIPMENT

LIMIT

Transmission Time : Per arbitrary one hour shall be 3.6s or less.

Transmission Pause Time : 100ms or less

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Rohde & Schwarz	FSV40	101493	11/24/2016	11/23/2017	ETC
Test S/W	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP

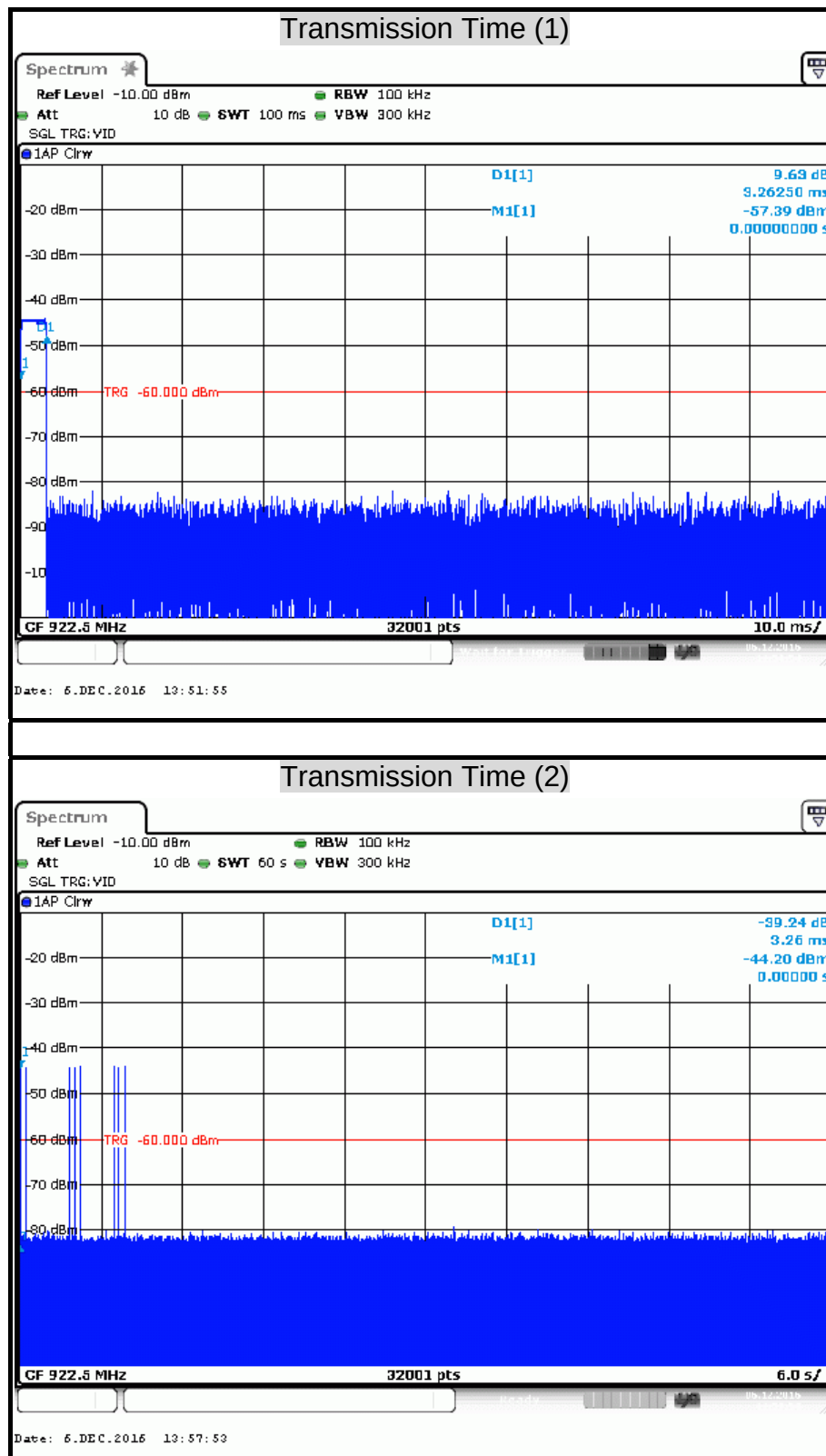


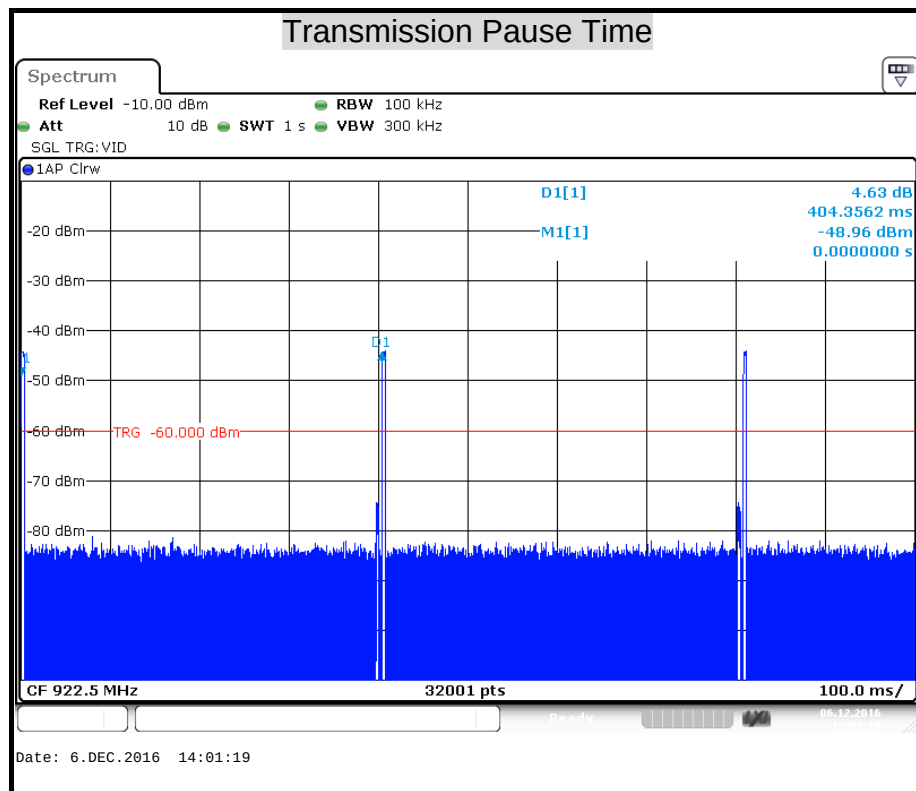
TEST PROCEDURES

1. Setting of SA is following as: RBW: 100kHz / VBW: 300kHz.
2. Use a video trigger with the trigger level set to enable triggering only on full pulses.
3. Sweep Time is more than once pulse time.
4. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
5. Measure the maximum time duration of one single pulse.

TEST RESULTS

Please refer to Appendix II.

TRANSMISSION TIME CONTROL EQUIPMENT



7.8 CARRIER SENSE CAPABILITY MEASUREMENT

LIMIT

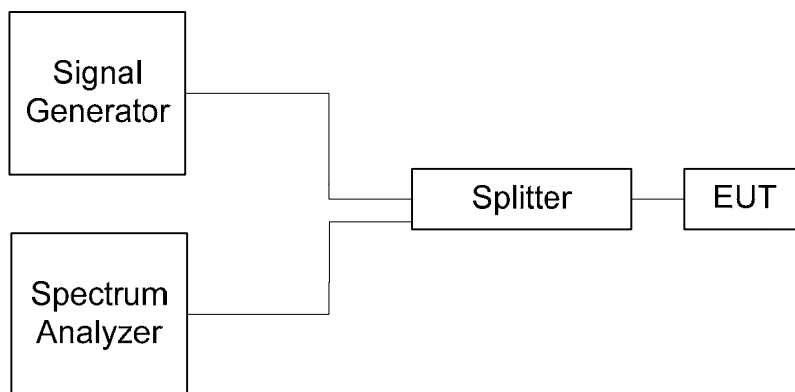
Carrier Sense : 128 μ s or more and less than 5ms.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Authority
Signal Analyzer	Agilent	N9010A	MY52220 817	03/16/2016	03/15/2017	ETC
Signal Generator	Rohde & Schwarz	SMY 02	838593/00 4	09/02/2016	09/01/2017	ETC
Test S/W	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURES

1. SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is 0dBm. Then turn off the RF signal of SSG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as: RB:100kHz / VB:300kHz / SPAN: 12.2MHz / AT: 10dB /Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.
4. SSG RF Signal On.
5. EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

TEST RESULTS

Please refer to Appendix II.

7.9 CONSTRUCTION PROTECTION CONFIRMATION METHOD

LIMIT

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

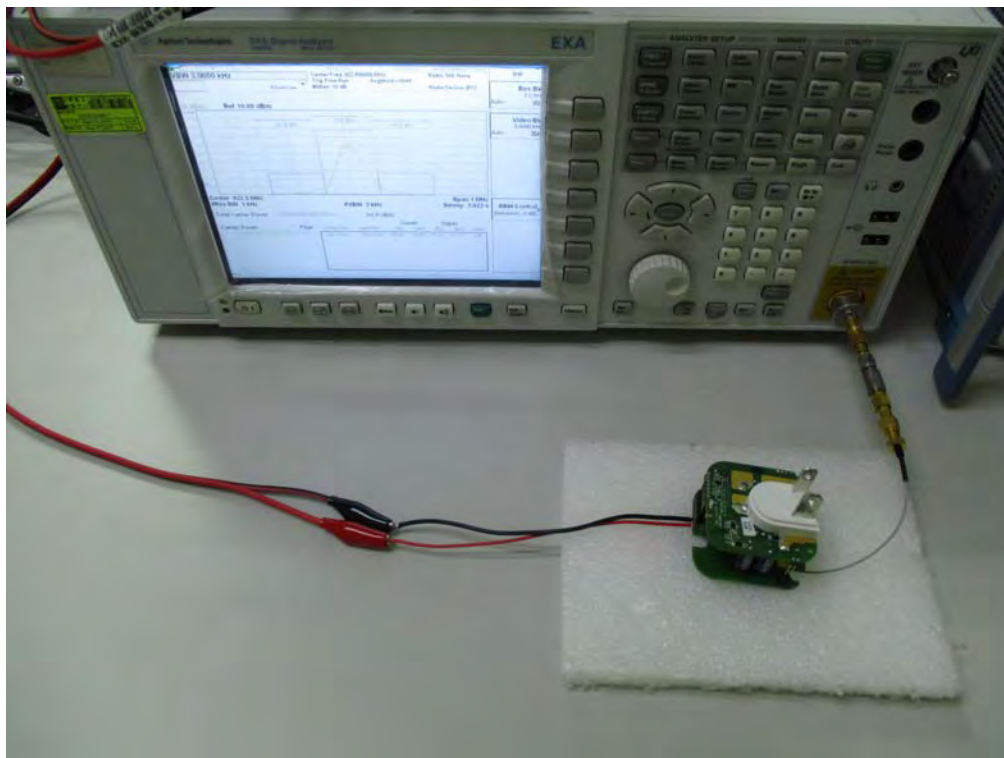
Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
Special Screws	RF modules and components are shelled by special screws.



APPENDIX I SETUP PHOTOS



APPENDIX II TEST RESULT

Company	ECO LIFE ENGINEERING CO., LTD.	Test Date	2016/11/22
Product Name	Z-Wave Smart Switch	Test By	Davis.Tseng
Model Name	TD13320Z1	Temp & Humidity	22°C, 54%
Test Mode	GFSK	Data rate	9.6kbps
Input Power Voltage	5Vdc	Job No	T161102D14

Tested Circuit Insertion Loss		0.00	dB	Peak Antenna Gain		-0.7	dBi
Burst	On Time	100	msec	Declaration Output Power		0.93	mW
	On+Off Time	100	msec			-0.33	dBm
	Ratio	100.00%	%	E.I.R.P		-1.03	dBm

Measurement Voltage	Vdc	Normal Voltage (5V)	Low Voltage (4.5V)	High Voltage (5.5V)	Result	Require
Measurement Frequency	MHz	922.5	---	---	---	
Reading Frequency	MHz	922.4979	---	---	---	
Frequency Tolerance	ppm	-2.3306	---	---	PASS	Limit $\leq$ 20 ppm
Occupied Bandwidth	kHz	71.7	---	---	PASS	Limit $\leq$ 200 kHz (99%)
Power Meter	dBm	-0.33	---	---	---	(average power)
RF Conducted Power	dBm	-0.33	---	---	---	(average power + duty factor)
RF Conducted Power	mW	0.93	---	---	PASS	Limit $\leq$ 1 mW or less
RF Output Power Tolerance	%	0.00	---	---	PASS	Limit + 20% ~ - 80%
Adjacent Channel Leakage Power						(Unit : dBm / 100kHz)
Lower	CF -200kHz	dBm	-38.35	---	PASS	Limit $\leq$ -26 dBm
Upper	CF +200kHz	dBm	-39.11	---	PASS	Limit $\leq$ -26 dBm
TX Unwanted Emission					---	(average power)
Under 710MHz	dBm/100kHz	-81.2610	---	---	PASS	Limit $\leq$ -36 dBm/100kHz
	MHz	709.5410	---	---	---	
710 - 900MHz	dBm/1MHz	-71.8630	---	---	PASS	Limit $\leq$ -55 dBm/1MHz
	MHz	865.7573	---	---	---	
900 - 915MHz	dBm/100kHz	-81.5910	---	---	PASS	Limit $\leq$ -55 dBm/100kHz
	MHz	914.8226	---	---	---	
915 - 930MHz(except for f-fc $\leq$ (200+100xn) kHz)	dBm/100kHz	-58.4270	---	---	PASS	Limit $\leq$ -36 dBm/100kHz
	MHz	922.2000	---	---	---	
930 - 1000MHz	dBm/100kHz	-75.9400	---	---	PASS	Limit $\leq$ -55 dBm/100kHz
	MHz	933.4895	---	---	---	
1000 - 1215MHz	dBm/1MHz	-73.2000	---	---	PASS	Limit $\leq$ -45 dBm/1MHz
	MHz	1211.7370	---	---	---	
1215 - 5000MHz	dBm/1MHz	-67.6700	---	---	PASS	Limit $\leq$ -30 dBm/1MHz
	MHz	3899.7000	---	---	---	
RX Unwanted Emission					---	
Under 710MHz	dBm/100kHz	-81.5600	---	---	PASS	Limit $\leq$ -54 dBm/100kHz
	MHz	474.7540	---	---	---	
710 - 900MHz	dBm/1MHz	-72.1320	---	---	PASS	Limit $\leq$ -55 dBm/1MHz
	MHz	884.4295	---	---	---	
900 - 915MHz	dBm/100kHz	-83.3440	---	---	PASS	Limit $\leq$ -55 dBm/100kHz
	MHz	903.1493	---	---	---	
915 - 930MHz	dBm/100kHz	-82.2310	---	---	PASS	Limit $\leq$ -54 dBm/100kHz
	MHz	923.5853	---	---	---	
930 - 1000MHz	dBm/100kHz	-83.3770	---	---	PASS	Limit $\leq$ -55 dBm/100kHz
	MHz	945.4298	---	---	---	
1000 - 5000MHz	dBm/1MHz	-66.4340	---	---	PASS	Limit $\leq$ -47 dBm/1MHz
	MHz	3911.6000	---	---	---	
Transmission Time Control						
Transmission Time	Sec	1.56	---	---	PASS	Per arbitrary one hour shall be 3.6s or less
Transmission Pause Time	msec	404.356	---	---	PASS	100ms or more
Carrier Sense Function						
Carrier Sense	---	No require	---	---	PASS	<1mW or less · No require