

SPORTON International Inc.

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FCC RADIO TEST REPORT

Applicant's company	Zebra Technologies Corporation
Applicant Address	1 Zebra Plaza, Holtsville, NY 11742
FCC ID	UZ7FX7500
Manufacturer's company	Zebra Technologies Corporation
Manufacturer Address	1 Zebra Plaza, Holtsville, NY 11742

Product Name	FX7500 RFID FIXED READER
Brand Name	Zebra
Model Name	FX7500
Test Rule 47 CFR FCC Part 15 Subpart C § 15.247	
Test Freq. Range	902 ~ 928 MHz
Received Date	Jun. 15, 2016
Final Test Date	Jun. 30, 2016
Submission Type	Class II Change

Statement

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.10-2013, DA-00705 and 47 CFR FCC Part 15 Subpart C.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.





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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR660830	Rev. 01	Initial issue of report	Jul. 01, 2016



Project No: CB10506246

VERIFICATION OF COMPLIANCE

Product Name :

FX7500 RFID FIXED READER

Brand Name :

Zebra

Model No. :

FX7500

Applicant:

Zebra Technologies Corporation

Test Rule Part(s) : 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jun. 15, 2016 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Sam Chen

SPORTON INTERNATIONAL INC.

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2. SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart C			
Part	Rule Section	Description of Test	Result	
4.1	15.207	AC Power Line Conducted Emissions	Complies	
4.2	15.247(b)(2)	Maximum Conducted Output Power	Complies	
4.3	15.247(a)(i)	Hopping Channel Separation	Complies	
4.4	15.247(b)(2)	Number of Hopping Frequency	Complies	
4.5	15.247(a)(i)	Dwell Time	Complies	
4.6	15.247(d)	Radiated Emissions	Complies	
4.7	15.247(d)	Band Edge Emissions	Complies	
4.8	15.203	Antenna Requirements	Complies	



3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Power Type	From power adapter or PoE
Modulation	DB-ASK, PR-ASK
Frequency Range	902 ~ 928 MHz
Operating Range	902.75 ~ 927.25 MHz
Channel Number	50
Channel Space	0.5 MHz
Channel Band Width (99%)	272.0694 kHz
Maximum Conducted Peak Output	29.36 dBm
Power	
Maximum Conducted Average	29.34 dBm
Output Power	
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

3.2. Accessories

Power	Brand Holder	Model	Rating	Rmark	
Adaptor	LEADER	NU80-4240325-I1	Input: 100-240V~50/60Hz 1.4A	DC cable	
Adapter	ELECTRONICS INC.	11000-4240325-11	Output: 24.0V, 3.25A	Non-shielded, 2.0m	
Power	Brand	P/N	Rating		
PoE	Symbol	AP-PSBIAS-2P3-ATR	Input: 100-240VAC~50/60Hz, 0. Output: 55V, 0.6A	67A	
	Others				
Power line*1: Non-shielded, 1.8m					
Ant. cable*4: Shielded, 5.2m					

3.3. Table for Filed Antenna

1	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	1	Laird	PAL902010-ZB1	Circularly Polarized Plate	Fixed Type -N Female	6.6

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3.4. Table for Carrier Frequencies

Frequency Band	Channel No.	Frequency
	1	902.75 MHz
	2	903.25 MHz
	:	:
	26	915.25 MHz
902 ~ 928 MHz	27	915.75 MHz
	28	916.25 MHz
	:	:
	49	926.75 MHz
	50	927.25 MHz

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Channel	Antenna Port
AC Power Conducted Emissions	Normal Link	-	-
Maximum Conducted Output Power	СТХ	1/27/50	2
Hopping Channel Separation	СТХ	1~3	2
		27~29	
		48~50	
Number of Hopping Frequency	СТХ	1~50	2
Dwell Time	СТХ	1/27/50	2
Radiated Emissions Below 1GHz	Normal Link	-	-
Radiated Emissions Above 1GHz	CTX	1/27/50	2
Band Edge Emissions	CTX	1/27/50	2

Note: 1. There are 4 antenna ports for this EUT. After evaluating, antenna port 2 was the worst case. Thus, antenna port 2 was used to test.

2. The test configuration and test modes written in this test report are designated by the applicant.

The following test modes were performed for all tests:

For Conducted Emission and Radiated Emission below 1GHz test:

Mode 1. Normal Link - EUT Z axis with PoE

Mode 2. Normal Link - EUT Z axis with Adapter

Mode 2 is the worst case, so it was selected to record in this test report

For Radiated Emission test:

Mode 1. CTX with Adapter

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3.6. Table for Testing Locations

Test Site Location						
Address:	No.	No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.				
TEL:	886	886-3-656-9065				
FAX:	886-3-656-9085					
Test Site N	0.	Site Category	Location	FCC Designation No.	IC File No.	VCCI Reg. No
03CH01-0	СВ	SAC	Hsin Chu	TW0006	IC 4086D	-
CO01-C	В	Conduction	Hsin Chu	TW0006	IC 4086D	-
TH01-CB	3	OVEN Room	Hsin Chu	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC).

3.7. Table for Class II Change

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
	AC Power Conducted Emissions
	Maximum Conducted Output Power
	Hopping Channel Separation
Adding one set same type antenna with higher	Number of Hopping Frequency
gain than the original Certificate.	Dwell Time
	Radiated Emissions
	Band Edge Emissions

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3.8. Table for Supporting Units

For Test Site No: 03CH01-CB (Below 1GHz)

Support Unit	Brand	Model	FCC ID
Notebook	DELL	E4300	DoC
Earphone	e-Power	\$90W	N/A
Mouse	Logitech	M-U0026	DoC
RFID Tag	JCPenney	N/A	N/A
Surge suppressor	ESP	ESP-100-Poe	N/A

For Test Site No: CO01-CB

Support Unit	Brand	Model	FCC ID	
RFID Tag	JCPenney	N/A	N/A	
Earphone	e-Power	\$90W	N/A	
Mouse	HP	FM100	DoC	
Notebook	DELL	E6430	DoC	
Surge suppressor	ESP	ESP-100-Poe	N/A	

For Test Site No: TH01-CB and 03CH01-CB (Above 1GHz)

Support Unit	Brand	Model	FCC ID	
Notebook	DELL	E4300	DoC	

3.9. Table for Parameters of Test Software Setting

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Software Version	РИПУ					
Frequency	902.75 MHz	915.75 MHz	927.25 MHz			
Power Parameters	305	305	304			

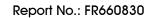
3.10. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.11. Duty Cycle

On Time	On+Off Time	Duty Cycle	Duty Factor	1/T Minimum VBW
(ms)	(ms)	(%)	(dB)	(kHz)
1.000	1.000	100.00%	0.00	0.01

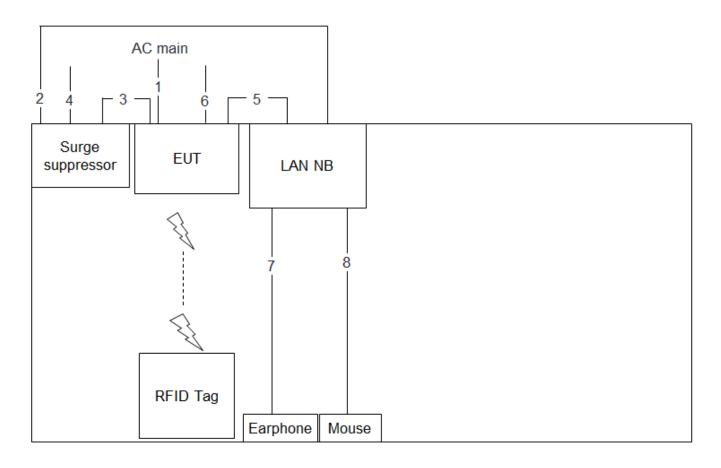
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3.12. Test Configurations

3.12.1. AC Power Line Conduction Emissions Test Configuration



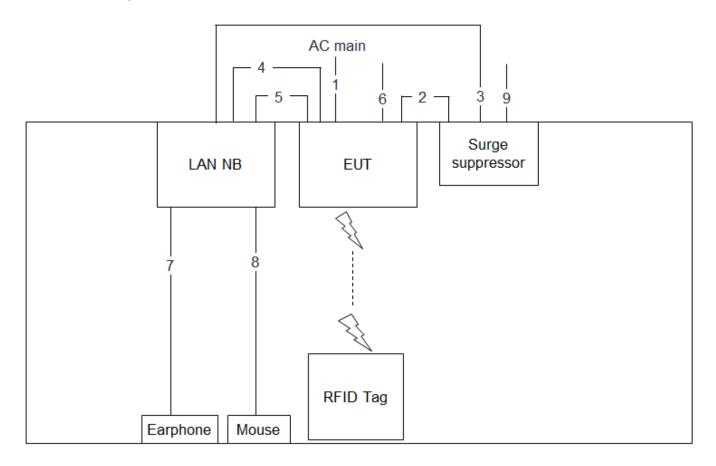
Item	Connection	Shielded	Length	
1	Power cable	No	3.8m	
2	RJ-45 cable	No	1.5m	
3	RJ-45 cable	No	1m	
4	Ground cable	No	1.5m	
5	USB cable *2	Yes	1.5m	
6	GPIO cable	No	lm	
7	Audio cable	No	1.4m	
8	USB cable	Yes	1.8m	

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3.12.2. Radiation Emissions Test Configuration

Test Configuration: 30MHz~1GHz



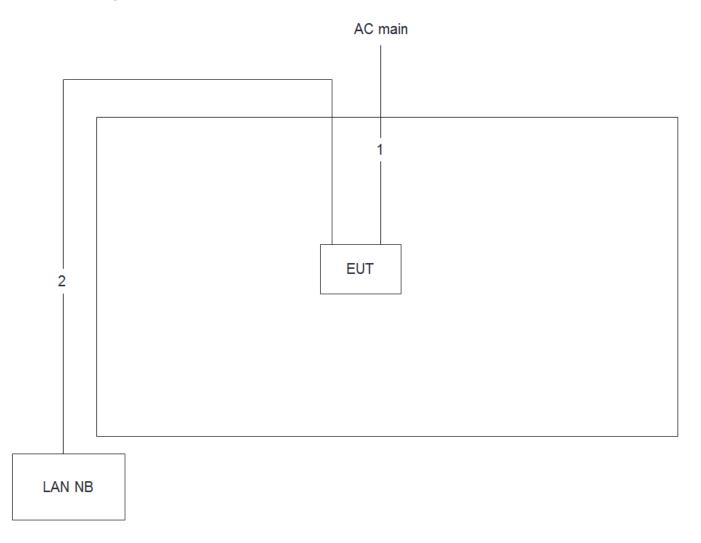
Item	Connection	Shielded	Length	
1	Power cable	No	3.8m	
2	RJ-45 cable	No	1.5m	
3	RJ-45 cable	No	1.5m	
4	USB cable	Yes	1.5m	
5	USB cable	Yes	1m	
6	GPIO cable	No	0.8m	
7	Audio cable	No	1.5m	
8	USB cable	No	1.8m	
9	Ground cable	No	1.5m	

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Test Configuration: above 1GHz



Item	Connection	Shielded	Length	
1	Power cable	No	3.8m	
2	RJ-45 cable	No	10m	

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4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For a Low-power Radio-frequency Device which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)	
0.15~0.5	66~56	56~46	
0.5~5	56	46	
5~30	60	50	

4.1.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

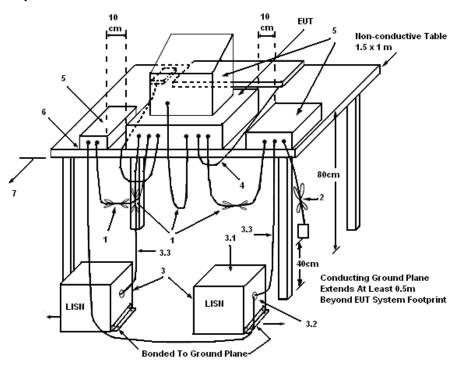
4.1.3. Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far
 from the conducting wall of the shielding room and at least 80 centimeters from any other
 grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 4. The frequency range from 150 kHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.

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4.1.4. Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5. Test Deviation

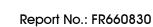
There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

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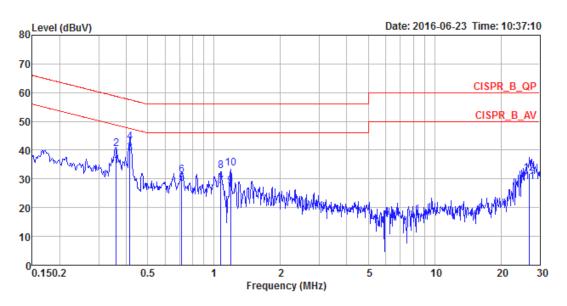
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4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	23°C	Humidity	61%
Test Engineer	GN Hou	Phase	Line
Configuration	Normal Link / Mode 2		



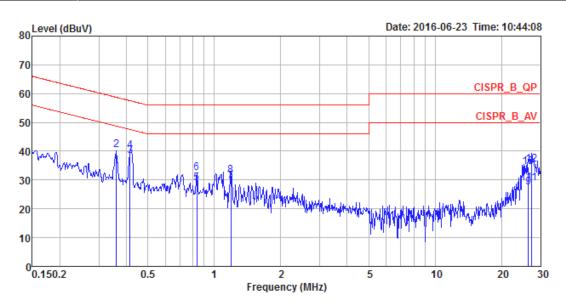
			0ver	Limit	Read	LISN	Cable		
	Freq	Level	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.3602	34.68	-14.04	48.72	24.72	9.92	0.04	LINE	Average
2	0.3602	40.58	-18.14	58.72	30.62	9.92	0.04	LINE	QP
3	0.4150	38.89	-8.66	47.55	28.93	9.92	0.04	LINE	Average
4	0.4150	42.72	-14.83	57.55	32.76	9.92	0.04	LINE	QP
5	0.7122	28.40	-17.60	46.00	18.00	9.93	0.47	LINE	Average
6	0.7122	31.22	-24.78	56.00	20.82	9.93	0.47	LINE	QP
7	1.0743	27.56	-18.44	46.00	16.95	9.94	0.67	LINE	Average
8	1.0743	32.91	-23.09	56.00	22.30	9.94	0.67	LINE	QP
9	1.1901	27.53	-18.47	46.00	17.02	9.94	0.57	LINE	Average
10	1.1901	33.52	-22.48	56.00	23.01	9.94	0.57	LINE	QP
11	26.9673	28.97	-21.03	50.00	18.19	10.49	0.29	LINE	Average
12	26.9673	31.92	-28.08	60.00	21.14	10.49	0.29	LINE	QP

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Temperature	23°C	Humidity	61%
Test Engineer	GN Hou	Phase	Neutral
Configuration	Normal Link / Mode 2		



			0ver	Limit	Read	LISN	Cable		
	Freq	Level	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.3596	34.74	-14.00	48.74	24.78	9.92	0.04	NEUTRAL	Average
2	0.3596	40.53	-18.21	58.74	30.57	9.92	0.04	NEUTRAL	QP
3	0.4155	38.39	-9.15	47.54	28.43	9.92	0.04	NEUTRAL	Average
4	0.4155	40.29	-17.25	57.54	30.33	9.92	0.04	NEUTRAL	QP
5	0.8319	28.79	-17.21	46.00	18.27	9.93	0.59	NEUTRAL	Average
6	0.8319	32.34	-23.66	56.00	21.82	9.93	0.59	NEUTRAL	QP
7	1.1896	29.41	-16.59	46.00	18.90	9.94	0.57	NEUTRAL	Average
8	1.1896	31.53	-24.47	56.00	21.02	9.94	0.57	NEUTRAL	QP
9	26.4178	27.51	-22.49	50.00	16.75	10.48	0.28	NEUTRAL	Average
10	26.4178	34.47	-25.53	60.00	23.71	10.48	0.28	NEUTRAL	QP
11	27.3956	28.79	-21.21	50.00	17.99	10.50	0.30	NEUTRAL	Average
12	27.3956	35.44	-24.56	60.00	24.64	10.50	0.30	NEUTRAL	QP

Note: Level = Read Level + LISN Factor + Cable Loss.

4.2. Maximum Conducted Output Power Measurement

4.2.1. Limit

For frequency hopping systems operating in the 902-928 MHz band: 1 watt (30dBm) for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph 15.247 (a)(1)(i).

4.2.2. Measuring Instruments and Setting

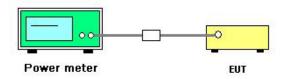
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Bandwidth	50MHz bandwidth is greater than the EUT emission bandwidth
Detector	Peak and Average

4.2.3. Test Procedures

This procedure provides an alternative for determining the RMS output power using a broadband RF average power meter with a thermocouple detector.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.2.7. Test Result of Maximum Conducted Output Power

Temperature	21℃	Humidity	60%
Test Engineer	Serway Li	Configurations	СТХ
Test Date	Jun. 23, 2016		

Channel	Frequency	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Result
1	902.75 MHz	29.36	29.34	29.40	Complies
27	915.75 MHz	29.34	29.32	29.40	Complies
50	927.25 MHz	29.35	29.33	29.40	Complies

Note: Antenna gain=6.6dBi, so limit=30-(6.6-6)=29.40 dBm

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4.3. Hopping Channel Separation Measurement

4.3.1. Limit

Frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

4.3.2. Measuring Instruments and Setting

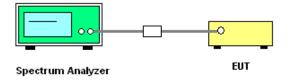
Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RBW	\geq 1% of the 20 dB bandwidth (20dB Bandwidth) / \geq 1% of the span	
KDVV	(Channel Separation)	
VBW	≥ RBW (20dB Bandwidth) / ≥ RBW (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

4.3.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 3 kHz and the video bandwidth of 30 kHz were utilized for 20 dB bandwidth measurement.
- 3. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were utilized for channel separation measurement.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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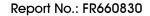
4.3.7. Test Result of Hopping Channel Separation

Temperature	21℃	Humidity	60%
Test Engineer	Serway Li	Configurations	CTX

Frequency	20dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Ch. Separation (kHz)	Limit of 20dB Bandwidth (kHz)	Result
902.75 MHz	285.1000	272.0694	500.00	500.000	Complies
915.75 MHz	285.1000	272.0694	500.00	500.000	Complies
927.25 MHz	285.1000	272.0694	500.00	500.000	Complies

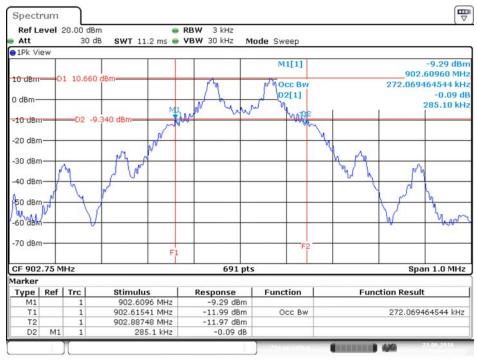
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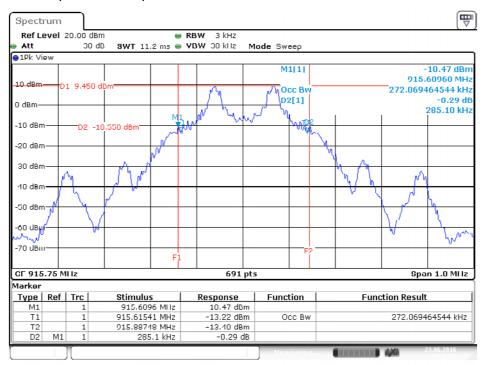


20 dB Bandwidth Plot / Channel 1 / 902.75 MHz

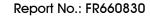


Date: 23.JUN.2016 19:56:38

20 dB Bandwidth Plot / Channel 27 / 915.75 MHz

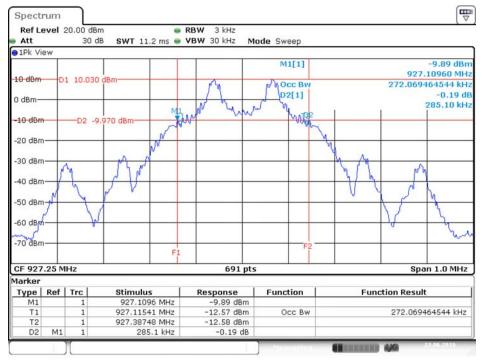


Date: 23.JUN.2016 20:10:33



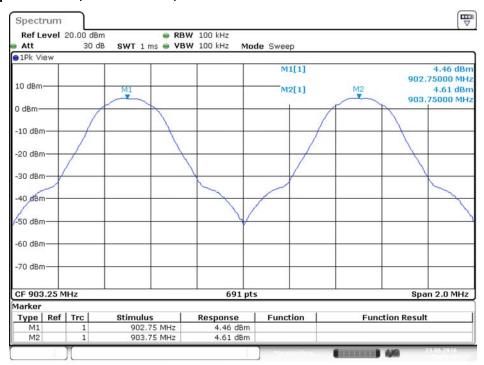


20 dB Bandwidth Plot / Channel 50 / 927.25 MHz

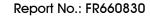


Date: 23.JUN.2016 20:16:29

Channel Separation Plot / Channel $1\sim3$ / 902.75 MHz ~903.75 MHz

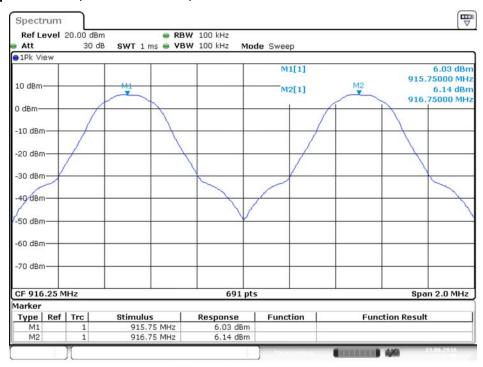


Date: 23.JUN.2016 21:03:44



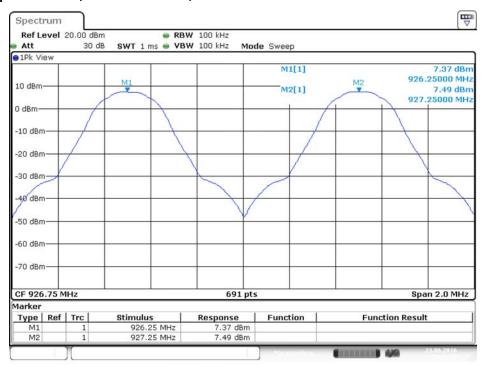


Channel Separation Plot / Channel 27~29 / 915.75 MHz ~ 916.75 MHz



Date: 23.JUN.2016 21:11:26

Channel Separation Plot / Channel $48\sim50$ / 926.25 MHz ~927.25 MHz



Date: 23.JUN.2016 21:18:23

4.4. Number of Hopping Frequency Measurement

4.4.1. Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

4.4.2. Measuring Instruments and Setting

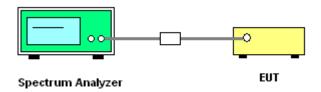
Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameters	Setting	
Attenuation	Auto	
Span Frequency	> Operating Frequency Range	
RBW	1% of the span	
VBW	≥ RBW	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

4.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 300 kHz and the video bandwidth of 1000 kHz were utilized.
- 3. Observe frequency hopping in 902MHz~928MHz, there are at least 50 channels.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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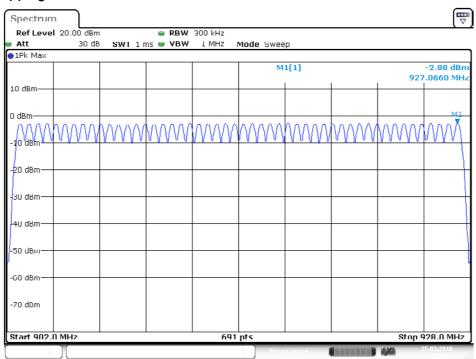


4.4.7. Test Result of Number of Hopping Frequency

Temperature	21℃	Humidity	60%
Test Engineer	Serway Li	Configurations	CTX

Channel	Frequency	Hopping Ch.	Min. Limit	Test Result
No.	(MHz)	(Channels)	(Channels)	
1 ~ 50	902 ~ 928 MHz	50	25	Complies

Number of Hopping Channel Plot / Channel $1\sim50$ / 902.75 MHz ~927.25 MHz



Dato: 23.JUN.2016 22:36:59

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4.5. Dwell Time Measurement

4.5.1. Limit

Frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

4.5.2. Measuring Instruments and Setting

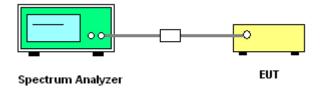
Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RBW	1MHz
VBW	≥ RBW
Detector	Peak
Trace	Single Trigger

4.5.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer
- 2. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- 4. Sweep Time is more than once pulse time.
- 5. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- 6. Measure the maximum time duration of one single pulse.

4.5.4. Test Setup Layout



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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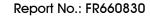
4.5.7. Test Result of Dwell Time

Temperature	21°C	Humidity	60%
Test Engineer	Serway Li	Configurations	CTX

Frequency (MHz)	Pulse Duration (ms)	Pulse number within 10s	Dwell Time (s)	Limits (s)	Test Result
902.75 MHz	394.20	1	0.394	0.4	Complies
902.75 MHz	391.30	1	0.391	0.4	Complies
902.75 MHz	392.75	1	0.393	0.4	Complies

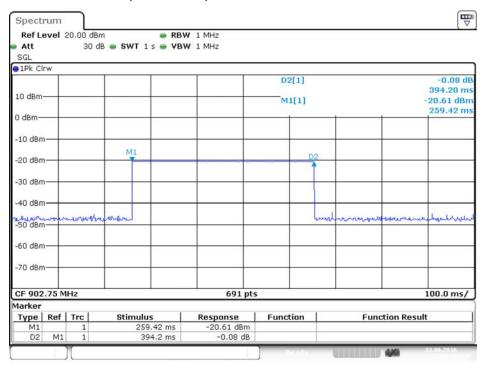
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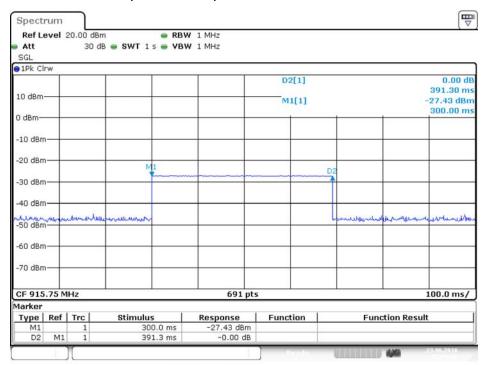


Dwell Time Plot on Pulse Duration / Channel 1 / 902.75 MHz



Date: 23.JUN.2016 22:50:16

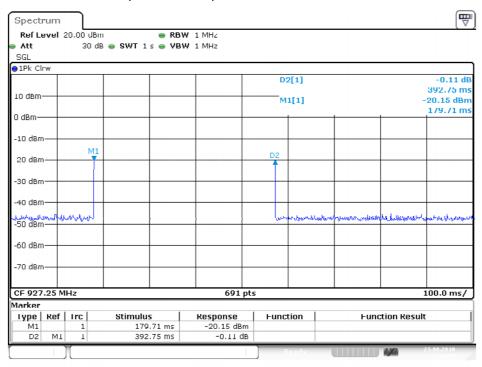
Dwell Time Plot on Pulse Duration / Channel 27 / 915.75 MHz



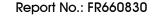
Date: 23.JUN.2016 22:54:57



Dwell Time Plot on Pulse Duration / Channel 50 / 927.25 MHz

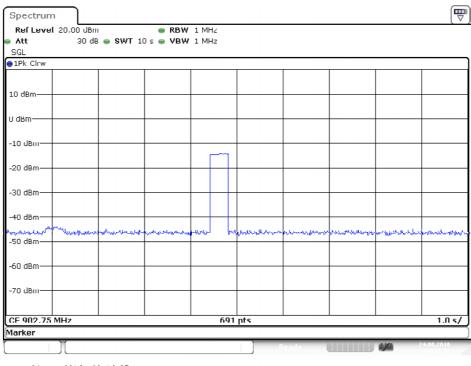


Dato: 23.JUN.2016 23:02:07



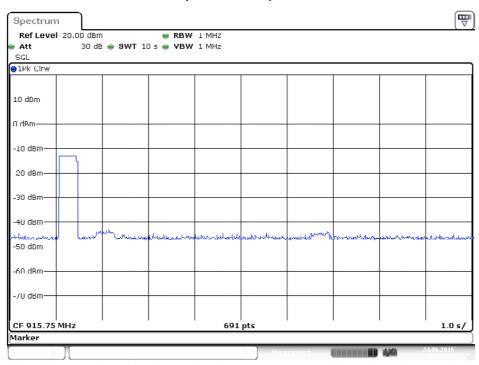


Dwell Time Plot on Pulse number within 10s / Channel 1 / 902.75 MHz



Dato: 24.JUN.2016 00:16:37

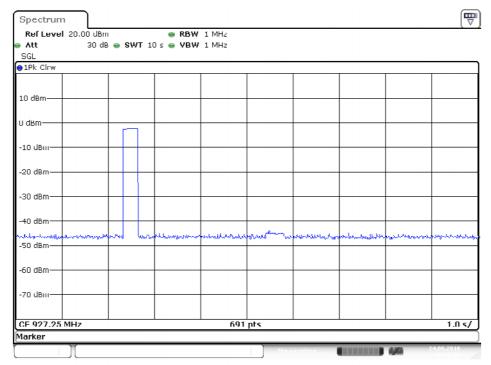
Dwell Time Plot on Pulse number within 10s / Channel 27 / 915.75 MHz



Date: 24.JUN.2016 00:14:54



Dwell Time Plot on Pulse number within 10s / Channel 50 / 927.25 MHz



Dato: 24.JUN.2016 00:12:01

4.6. Radiated Emissions Measurement

4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak,
	1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	100kHz, 300kHz for peak

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9kHz~150kHz, RBW 200Hz for QP	
Start ~ Stop Frequency	150kHz~30MHz, RBW 9kHz for QP	
Start ~ Stop Frequency	30MHz~1000MHz, RBW 120kHz for QP	

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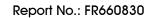
4.6.3. Test Procedures

Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5
meter above ground. The phase center of the receiving antenna mounted on the top of a
height-variable antenna tower was placed 1m & 3m far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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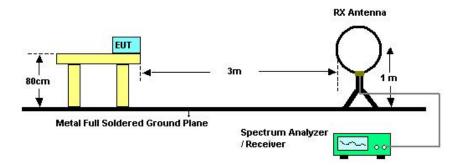
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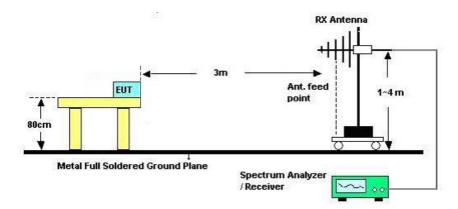


4.6.4. Test Setup Layout

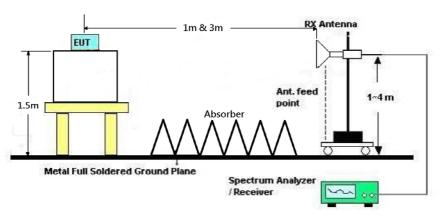
For Radiated Emissions: 9kHz ~30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: Above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.6.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24°C	Humidity	54%
Test Engineer	John Tang	Test Date	Jun. 17, 2016 ~ Jun. 20, 2016
Configurations	Normal Link / Mode 2		

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

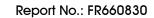
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

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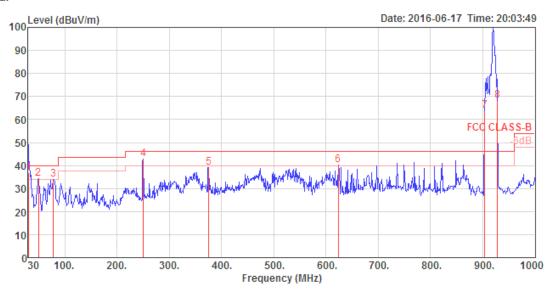




4.6.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	24°C	Humidity	54%
Test Engineer	John Tang	Configurations	Normal Link / Mode 2

Horizontal

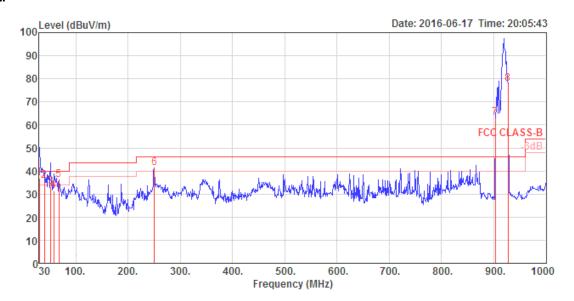


	Freq	Level	Limit Line	Over Limit				Preamp Factor		T/Pos	Remark	Pol/Phase
_	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	30.64	36.81	40.00	-3.19	43.43	0.49	25.29	32.40	125	147	QP	HORIZONTAL
2	49.40	34.44	40.00	-5.56	51.05	0.61	15.19	32.41	200	237	Peak	HORIZONTAL
3	78.50	33.88	40.00	-6.12	52.02	0.77	13.49	32.40	200	232	Peak	HORIZONTAL
4	250.19	42.88	46.00	-3.12	54.74	1.34	19.10	32.30	150	192	Peak	HORIZONTAL
5	375.32	39.22	46.00	-6.78	47.79	1.67	22.08	32.32	100	194	Peak	HORIZONTAL
6	623.64	40.06	46.00	-5.94	44.57	2.16	25.73	32.40	150	157	Peak	HORIZONTAL
7	903.97	63.90	46.00		65.29	2.58	27.73	31.70	100	360	Peak	HORIZONTAL
8	928.22	68.45	46.00		69.34	2.63	27.94	31.46	100	360	Peak	HORIZONTAL

Note: Item 7, 8 are the fundamental frequency.



Vertical



	F	1 1	Limit	Over				Preamp	A/Pos	T/Pos	Damanla	D-1/Db
	Freq	rever	Line	Limit	rever	LOSS	ractor	ractor			Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	30.00	36.89	40.00	-3.11	43.20	0.49	25.60	32.40	125	6	QP	VERTICAL
2	39.99	35.93	40.00	-4.07	47.60	0.54	20.20	32.41	100	351	QP	VERTICAL
3	52.12	33.19	40.00	-6.81	50.35	0.63	14.62	32.41	100	260	QP	VERTICAL
4	58.13	31.50	40.00	-8.50	49.32	0.68	13.91	32.41	125	212	QP	VERTICAL
5	67.83	36.30	40.00	-3.70	54.93	0.71	13.06	32.40	200	173	Peak	VERTICAL
6	250.19	41.31	46.00	-4.69	53.17	1.34	19.10	32.30	125	135	Peak	VERTICAL
7	903.00	63.18	46.00		64.57	2.58	27.73	31.70	200	348	Peak	VERTICAL
8	927.25	78.02	46.00		78.95	2.62	27.91	31.46	125	0	Peak	VERTICAL

Item 7, 8 are the fundamental frequency.

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



4.6.9. Results for Radiated Emissions (1GHz \sim 10th Harmonic)

Temperature	24°C	Humidity	54%
Test Engineer	John Tang	Configurations	Channel 1
Test Date	Jun. 17, 2016 ~ Jun. 20	0, 2016	

Horizontal

	Freq	Level						Preamp Factor			Remark	Pol/Phase
	MHz	dBu\∕/m	dBu∨/m	dB	dBu∀	dB	dB/m	dB	cm	deg		
1	4513.57	47.98	74.00	-26.02	42.55	5.98	32.43	32.98	176	114	Peak	HORIZONTAL
2	4513.72	39.07	54.00	-14.93	33.64	5.98	32.43	32.98	176	114	Average	HORIZONTAL

Vertical

	Freq	Level		0∨er Limit						T/Pos	Remark	Pol/Phase	
	MHz	dBu\∕/m	dBu\//m	dB	dBu∀	dB	dB/m	dB	cm	deg			
1	4513.74	45.49	54.00	-8.51	40.06	5.98	32.43	32.98	272	216	Average	VERTICAL	
2	4513.78	52.67	74.00	-21.33	47.24	5.98	32.43	32.98	272	216	Peak	VERTICAL	

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Temperature	24°C	Humidity	54%					
Test Engineer	John Tang	Configurations	Channel 27					
Test Date	Jun. 17, 2016 ~ Jun. 20, 2016							

Horizontal

	Freq	Level		0ver Limit						T/Pos	Remark	Pol/Phase
	MHz	dBu\//m	dBu∀/m	dB	dBu∀	dB	dB/m	dB	cm	deg		
1	4578.72	33.83	54.00	-20.17	28.18	6.04	32.58	32.97	167	339	Average	HORIZONTAL
2	4578.75	46.71	74.00	-27.29	41.06	6.04	32.58	32.97	167	339	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line					Preamp Factor		T/Pos	Remark	Pol/Phase
	MHz	dBu\∕/m	dBu∨/m	dB	dBu∀	dB	dB/m	dB	cm	deg		
1	4578.78	37.75	54.00	-16.25	32.10	6.04	32.58	32.97	154	198	Average	VERTICAL
2	4578.95	49.51	74.00	-24.49	43.86	6.04	32.58	32.97	154	198	Peak	VERTICAL

Temperature	24°C	Humidity	54%
Test Engineer	John Tang	Configurations	Channel 50
Test Date	Jun. 17, 2016 ~ Jun. 2	20, 2016	

Horizontal

	Freq	Level						Preamp Factor			Remark	Pol/Phase
	MHz	dBu\//m	dBu∨/m	dB	dBu∨	dB	dB/m	dB	cm	deg		
1	4636.08	46.12	74.00	-27.88	40.25	6.10	32.73	32.96	170	110	Peak	HORIZONTAL
2	4636.11	32.48	54.00	-21.52	26.61	6.10	32.73	32.96	170	110	Average	HORIZONTAL

Vertical

	Freq	Level						Preamp Factor		T/Pos Remark	Pol/Phase
	MHz	dBu\//m	dBu√/m	dB	dBu∀	dB	dB/m	dB	cm	deg	
1 2	4636.18 4636.22									194 Average 194 Peak	

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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4.7. Emissions Measurement

4.7.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

-			
Frequencies	Field Strength	Measurement Distance	
(MHz)	(micorvolts/meter)	(meters)	
0.009~0.490	2400/F(kHz)	300	
0.490~1.705	24000/F(kHz)	30	
1.705~30.0	30	30	
30~88	100	3	
88~216	150	3	
216~960	200	3	
Above 960	500	3	

4.7.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	100 MHz	
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak,	
	1MHz / 1/T for Average	
RBW / VBW (20dBc in any 100 kHz bandwidth emission)	100 kHz /100 kHz for Peak	

4.7.3. Test Procedures

For Radiated band edges Measurement:

1. The test procedure is the same as section 4.6.3.

For Radiated Out of Band Emission Measurement:

1. The test procedure is follow 15.247(d).

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4.7.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.6.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.6.4.

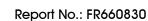
4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

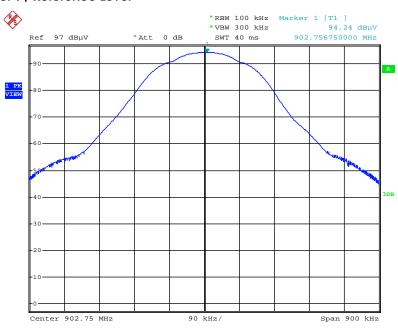
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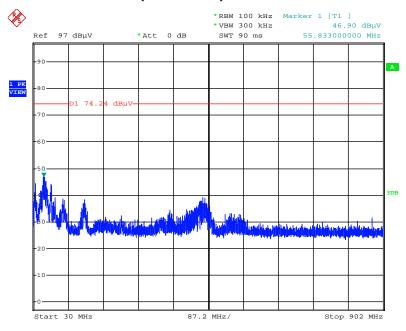
4.7.7. Test Result of Band Edge and Fundamental Emissions

Plot on Channel 1 / Reference Level



Date: 30.JUN.2016 16:53:31

Plot on Channel 1 / 30MHz~902MHz (down 20dBc)



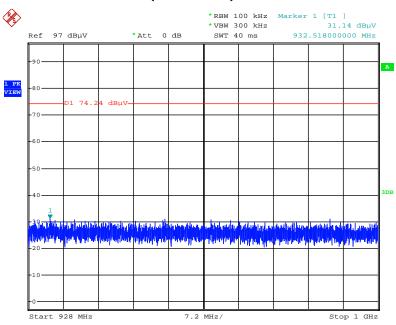
Date: 30.JUN.2016 17:05:17

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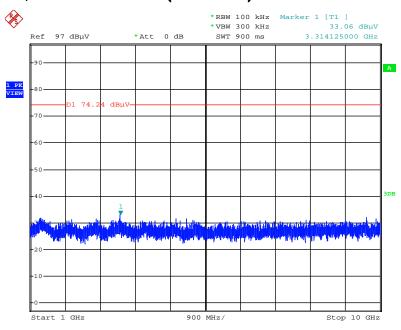


Plot on Channel 1 / 928MHz~1000MHz (down 20dBc)



Date: 30.JUN.2016 17:32:54

Plot on Channel 1 / 1000MHz~10000MHz (down 20dBc)

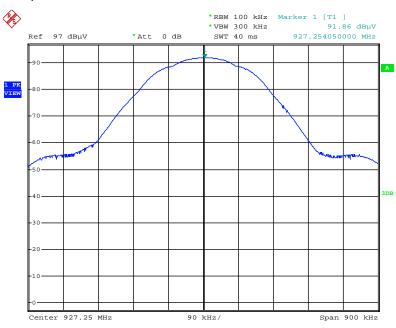


Date: 30.JUN.2016 17:36:02



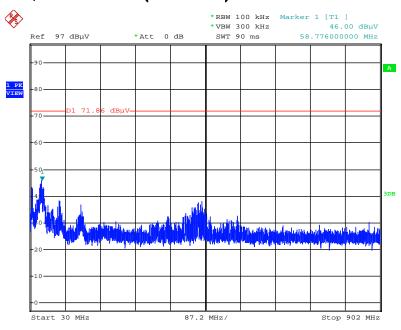


Plot on Channel 50 / Reference Level



Date: 30.JUN.2016 16:56:54

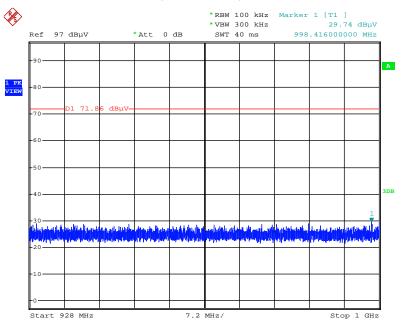
Plot on Channel 50 / 30MHz~902MHz (down 20dBc)



Date: 30.JUN.2016 17:08:00



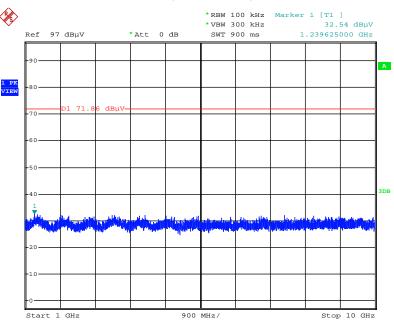
Plot on Channel 50 / 928MHz~1000MHz (down 20dBc)



Date: 30.JUN.2016 17:09:35



Plot on Channel 50 / 1000MHz~10000MHz (down 20dBc)



Date: 30.JUN.2016 17:27:41



4.8. Antenna Requirements

4.8.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

4.8.2. Antenna Connector Construction

Please refer to section 3.3 in this test report, antenna connector complied with the requirements.



5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	TESEQ	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

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^{*} Calibration Interval of instruments listed above is two years.



6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark	
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%	
Radiated Emission (30MHz \sim 1,000MHz)	3.6 dB	Confidence levels of 95%	
Radiated Emission (1GHz \sim 18GHz)	3.7 dB	Confidence levels of 95%	
Conducted Emission	1.7 dB	Confidence levels of 95%	

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