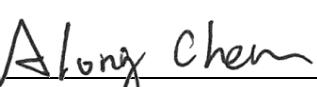


# FCC Test Report

**FCC ID** : 2AAS9WL10  
**Equipment** : MerryIoT Leak Detection  
**Model No.** : WL10  
**Brand Name** : MerryIoT  
**Applicant** : Browan Communications Incorporation  
**Address** : No.15-1, Zhonghua Rd., Hsinchu Industrial Park, Hukou Hsinchu Hsien Taiwan 303  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Feb. 22, 2022  
**Tested Date** : Apr. 07 ~ Apr. 18, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager

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**Appendix A. Unwanted Emissions into Restricted Frequency Bands**

**Appendix B. Unwanted Emissions into Non-Restricted Frequency Bands**

**Appendix C. Conducted Output Power**

**Appendix D. Number of Hopping Frequency**

**Appendix E. 20dB and Occupied Bandwidth**

**Appendix F. Channel Separation**

**Appendix G. Number of Dwell Time**

**Appendix H. Power Spectral Density**

## Release Record

Report No.	Version	Description	Issued Date
FR222101AD	Rev. 01	Initial issue	Apr. 22, 2022

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	Note	N/A
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 57.16MHz 29.76 (Margin -10.24dB) - PK	Pass
15.247(d)	Band Edge	Meet the requirement of limit	Pass
15.247(b)(2)(3)	Conducted Output Power	Power [dBm]: 18.97	Pass
15.247(a)(1)(i)	Number of Hopping Channels	Meet the requirement of limit	Pass
15.247(a)(1)	Hopping Channel Separation	Meet the requirement of limit	Pass
15.247(f)	Dwell Time	Meet the requirement of limit	Pass
15.247(f)	Power spectral density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

N/A means Not Applicable.

Note: The device consumes DC power from battery, so the test is not required.

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 1 General Description

### 1.1 Information

#### 1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	Ch. Freq. (MHz)	Channel List	Physical bit rate (bit/s)	Spread Factor	Channel Bandwidth (kHz)
902 ~ 928	902.3 ~ 914.9	64 channels	5470-250	7 ~ 10	125
Note 1: RF output power specifies that Maximum Conducted (Average) Output Power. Note 2: The device uses CSS modulation. Note 3: The device supports hybrid mode.					

#### 1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)
1	Monopole	No	0.27

#### 1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.0Vdc from battery (AAx2)
-------------------	----------------------------

#### 1.1.4 Accessories

N/A

### 1.1.5 Channel List

Channel Bandwidth: 125KHz							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	902.3	17	905.5	33	908.7	49	911.9
2	902.5	18	905.7	34	908.9	50	912.1
3	902.7	19	905.9	35	909.1	51	912.3
4	902.9	20	906.1	36	909.3	52	912.5
5	903.1	21	906.3	37	909.5	53	912.7
6	903.3	22	906.5	38	909.7	54	912.9
7	903.5	23	906.7	39	909.9	55	913.1
8	903.7	24	906.9	40	910.1	56	913.3
9	903.9	25	907.1	41	910.3	57	913.5
10	904.1	26	907.3	42	910.5	58	913.7
11	904.3	27	907.5	43	910.7	59	913.9
12	904.5	28	907.7	44	910.9	60	914.1
13	904.7	29	907.9	45	911.1	61	914.3
14	904.9	30	908.1	46	911.3	62	914.5
15	905.1	31	908.3	47	911.5	63	914.7
16	905.3	32	908.5	48	911.7	64	914.9

### 1.1.6 Test Tool and Duty Cycle

Test Tool	CMD, V6.1.7601	
Mode	Duty Cycle (%)	Duty Factor (dB)
LoRa (125kHz)	92.34%	0.35

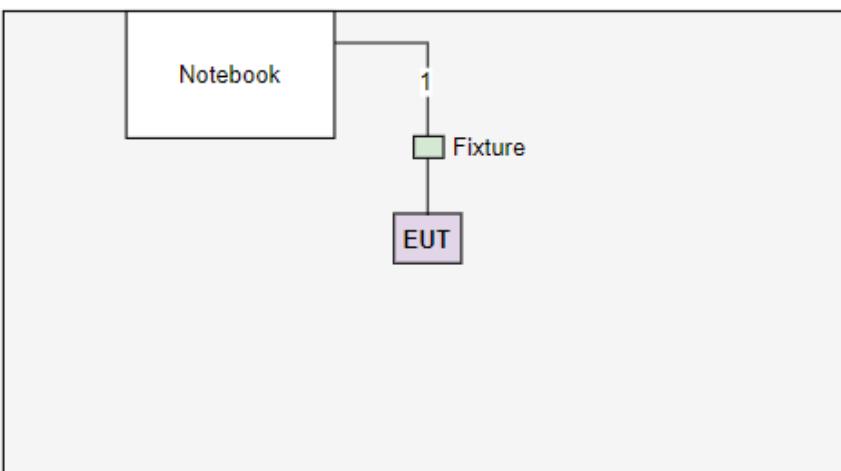
### 1.1.7 Power Index of Test Tool

Channel Bandwidth: 125KHz		
Test Frequency (MHz)	Power Index	
902.3	20	
908.5	20	
914.9	20	

## 1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5400	DoC	---
2	Fixture	---	---	---	Provided by applicant.

## 1.3 Test Setup Chart

Test Setup Diagram	
No.	Signal cable / Length (m)
1	 USB, 1m shielded.

## 1.4 The Equipment List

<b>Test Item</b>	Radiated Emission				
<b>Test Site</b>	966 chamber1 / (03CH01-WS)				
<b>Tested Date</b>	Apr. 07 ~ Apr. 08, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA

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

<b>Test Item</b>	RF Conducted				
<b>Test Site</b>	(TH01-WS)				
<b>Tested Date</b>	Apr. 18, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA

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

## 1.5 Test Standards

47 CFR FCC Part 15.247

ANSI C63.10-2013

## 1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

## 1.7 Deviation from Test Standard and Measurement Procedure

None

## 1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB

## 2 Test Configuration

### 2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

### 2.2 The Worst Test Modes and Channel Details

Test item	Channel Bandwidth (kHz)	Test Frequency (MHz)	Separating Factor
Conducted Emissions			
Unwanted Emissions			
Conducted Output Power	125	902.3 / 908.5 / 914.9	SF10
Hopping Channel Separation			
20dB and Occupied bandwidth			
Power Spectral Density			
Number of Hopping Channels	125	902.3 ~ 914.9	SF10
Dwell Time	125	902.3	SF10, 9, 8, 7

**NOTE:**

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** result was found as the worst case and was shown in this report.

### 3 Transmitter Test Results

#### 3.1 Unwanted Emissions into Restricted Frequency Bands

##### 3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

**Note 1:**

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

##### 3.1.2 Test Procedures

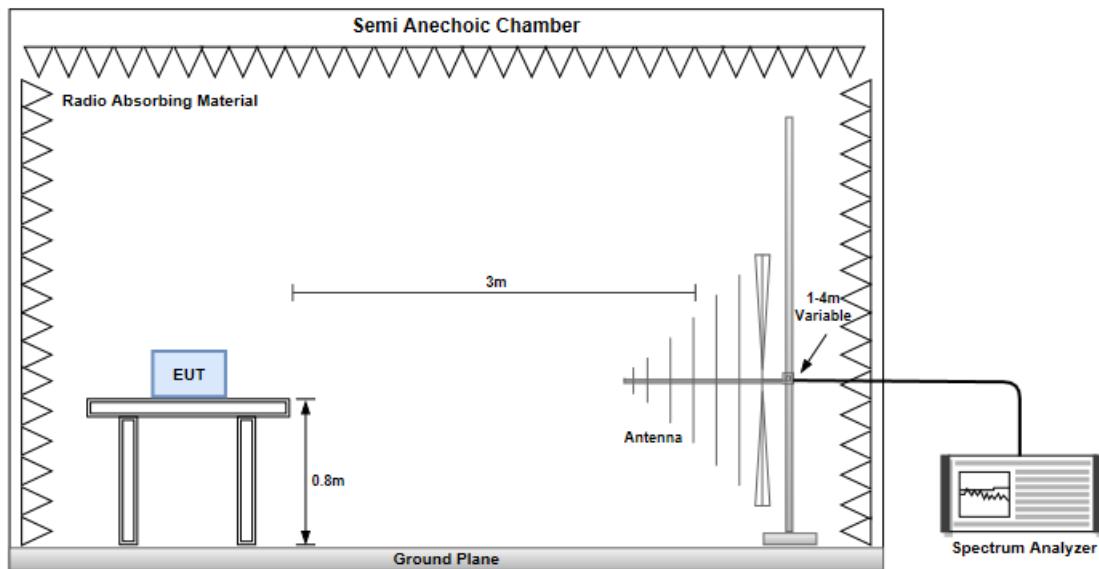
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

**Note:**

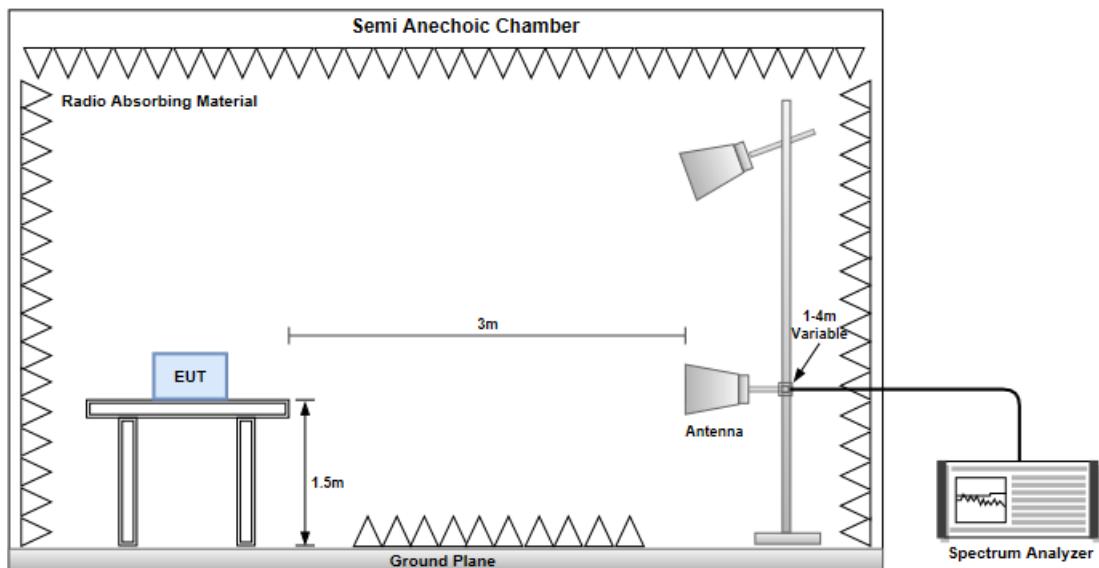
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.1.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz



### 3.1.4 Test Results

Refer to Appendix A.

## 3.2 Unwanted Emissions into Non-Restricted Frequency Bands

### 3.2.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

### 3.2.2 Test Procedures

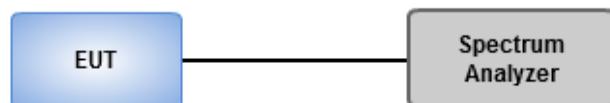
#### Reference Level Measurement

1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Set Sweep time = auto couple, Trace mode = max hold.
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

#### Unwanted Emissions Level Measurement

1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Trace Mode = max hold, Sweep = auto couple.
3. Allow the trace to stabilize.
4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

### 3.2.3 Test Setup



### 3.2.4 Test Results

Ambient Condition	22°C / 67%	Tested By	Aska Huang
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Refer to Appendix B.

### 3.3 Conducted Output Power

#### 3.3.1 Limit of Conducted Output Power

1W

#### 3.3.2 Test Procedures

1. A wideband power meter is used for power measurement. Bandwidth of power sensor and meter is 50MHz
2. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power

#### 3.3.3 Test Setup



#### 3.3.4 Test Results

Ambient Condition	22°C / 67%	Tested By	Aska Huang
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Refer to Appendix C.

## 3.4 Number of Hopping Frequency

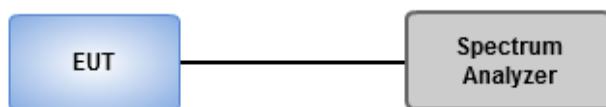
### 3.4.1 Limit of Number of Hopping Frequency

Number of Hopping Frequencies Limit for Frequency Hopping Systems	
<input checked="" type="checkbox"/>	902-928 MHz Band:
<input type="checkbox"/>	$N \geq 50$ , 20 dB bandwidth of the hopping channel is less than 250 kHz
<input type="checkbox"/>	$N \geq 25$ , 20 dB bandwidth of the hopping channel is 250 kHz or greater
<input checked="" type="checkbox"/>	Hybrid mode, No minimum number of hopping channels associated with hybrid system.
<b>N:</b> Number of Hopping Frequencies	

### 3.4.2 Test Procedures

1. Set RBW = 100kHz, VBW = 300kHz, Sweep time = Auto, Detector = Peak Trace max hold.
2. Allow trace to stabilize.

### 3.4.3 Test Setup



### 3.4.4 Test Results

Ambient Condition	22°C / 67%	Tested By	Aska Huang
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Refer to Appendix D.

## 3.5 20dB and Occupied Bandwidth

### 3.5.1 Test Procedures

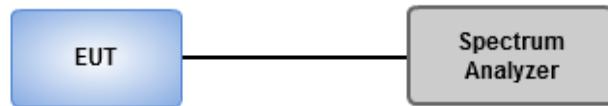
#### 20dB Bandwidth

1. Set RBW=3kHz, VBW=10kHz, Sweep time=Auto, Detector=Peak Trace max hold.
2. Allow trace to stabilize.
3. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

#### Occupied Bandwidth

1. Set RBW=3kHz, VBW=10kHz, Sweep time = Auto, Detector=Peak, Trace max hold
2. Allow trace to stabilize
3. Use Occupied bandwidth function of spectrum analyzer to measuring 99% occupied bandwidth

### 3.5.2 Test Setup



### 3.5.3 Test Results

Ambient Condition	22°C / 67%	Tested By	Aska Huang
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Refer to Appendix E.

## 3.6 Channel Separation

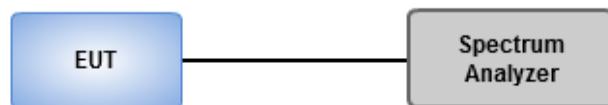
### 3.6.1 Limit of Channel Separation

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

### 3.6.2 Test Procedures

1. Set RBW=10kHz, VBW=30kHz, Sweep time=Auto, Detector=Peak Trace max hold.
2. Allow trace to stabilize.
3. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The EUT shall show compliance with the appropriate regulatory limit

### 3.6.3 Test Setup



### 3.6.4 Test Results

Ambient Condition	22°C / 67%	Tested By	Aska Huang
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Refer to Appendix F.

## 3.7 Number of Dwell Time

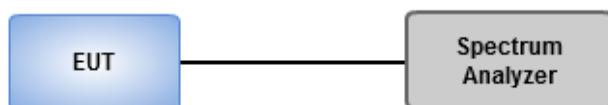
### 3.7.1 Limit of Dwell time

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
<input checked="" type="checkbox"/> 902-928 MHz Band:	
<input type="checkbox"/>	≤ 0.4 second within a 20 second period, 20 dB bandwidth of the hopping channel is less than 250 kHz
<input type="checkbox"/>	≤ 0.4 second within a 10 second period, 20 dB bandwidth of the hopping channel is 250 kHz or greater
<input checked="" type="checkbox"/>	Hybrid mode ,an average time of occupancy on any frequency not to exceed 0.4 seconds within a time period in seconds equal to the number of hopping frequencies employed multiplied by 0.4

### 3.7.2 Test Procedures

1. Set RBW=200kHz, VBW=1000kHz, Sweep time=3.2s / 500ms, Detector=Peak, Span=0Hz, Trace max hold for 8 hopping channels.
2. Set RBW=200kHz, VBW=1000kHz, Sweep time=6.4s / 500ms, Detector=Peak, Span=0Hz, Trace max hold for 16 hopping channels.
3. Set RBW=200kHz, VBW=1000kHz, Sweep time=25.6s / 500ms, Detector=Peak, Span=0Hz, Trace max hold for 64 hopping channels.
4. Measure and record the burst on time.

### 3.7.3 Test Setup



### 3.7.4 Test Results

Ambient Condition	22°C / 67%	Tested By	Aska Huang
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Refer to Appendix G.

## 3.8 Power Spectral Density

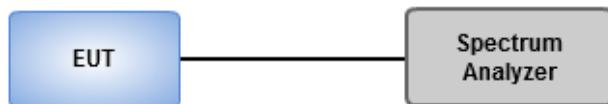
### 3.8.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band. This item is for Hybrid mode.

### 3.8.2 Test Procedures

1. Set the RBW = 3kHz, VBW = 10 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Employ trace averaging (RMS) mode over a minimum of 100 traces
4. Use the peak marker function to determine the maximum amplitude level.

### 3.8.3 Test Setup



### 3.8.4 Test Results

Ambient Condition	22°C / 67%	Tested By	Aska Huang
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Refer to Appendix H.

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### Linkou

Tel: 886-2-2601-1640  
No.30-2, Ding Fwu Tsuen, Lin Kou  
District, New Taipei City, Taiwan  
(R.O.C.)

### Kwei Shan

Tel: 886-3-271-8666  
No.3-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)  
No.2-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)

### Kwei Shan Site II

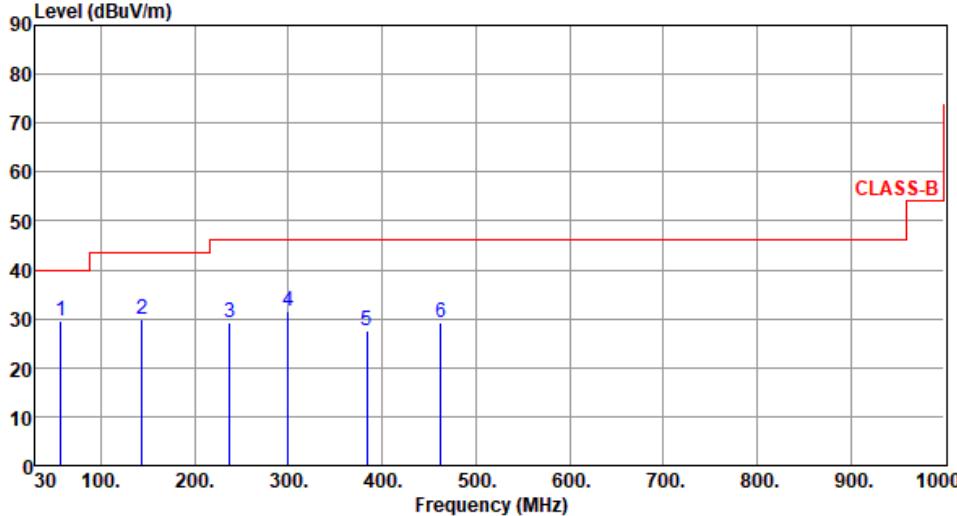
Tel: 886-3-271-8640  
No.14-1, Lane 19, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 333, Taiwan (R.O.C.)

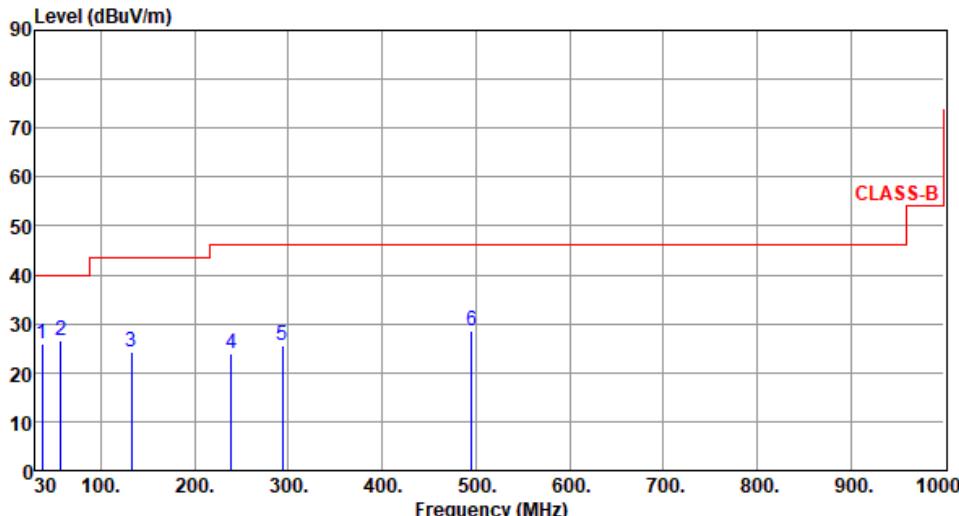
If you have any suggestion, please feel free to contact us as below information.

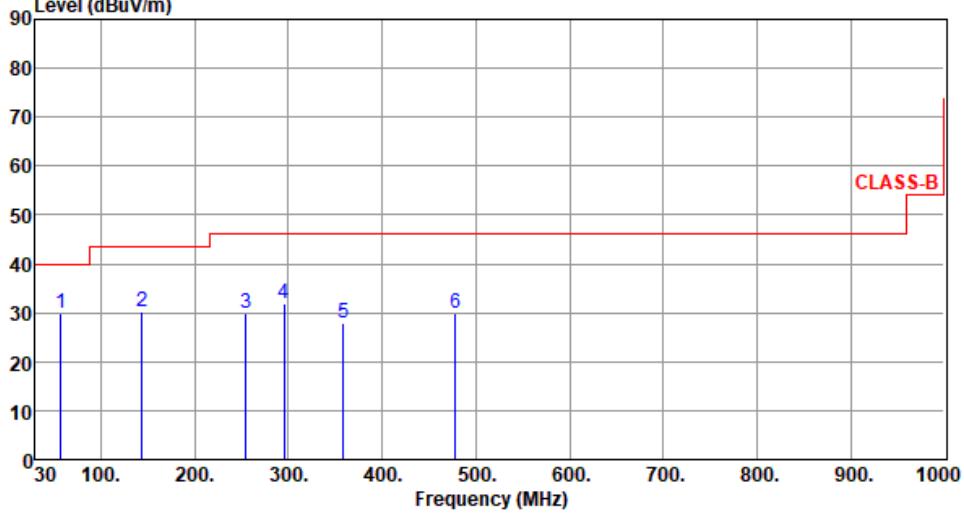
Tel: 886-3-271-8666  
Fax: 886-3-318-0345  
Email: ICC\_Service@icertifi.com.tw

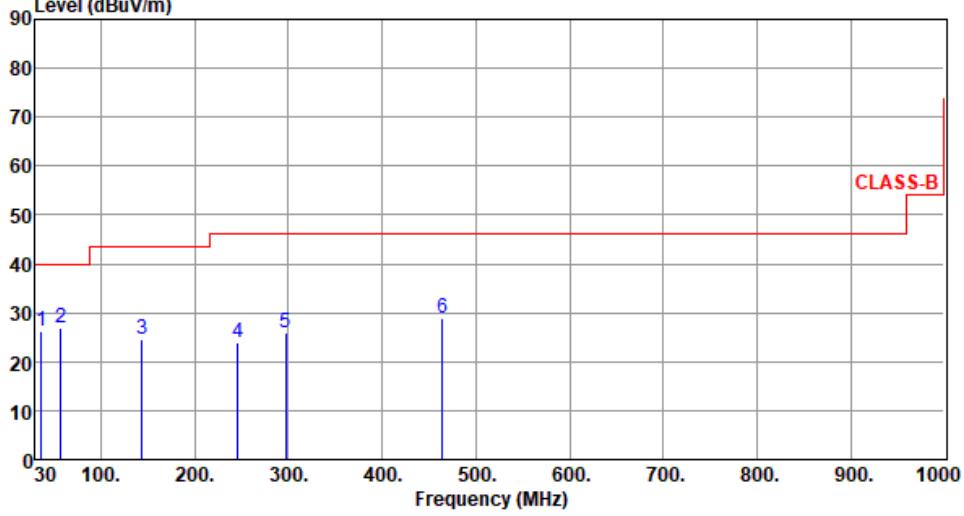
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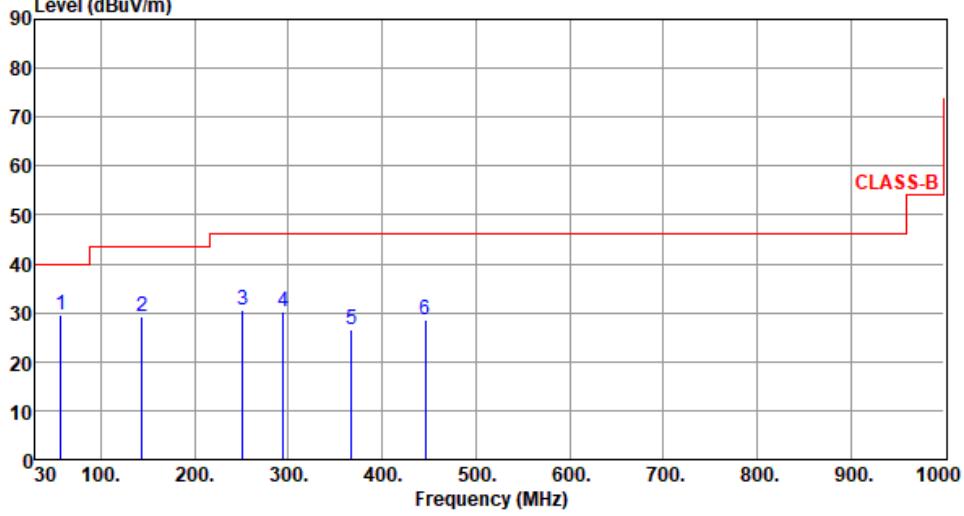
**Below 1GHz**

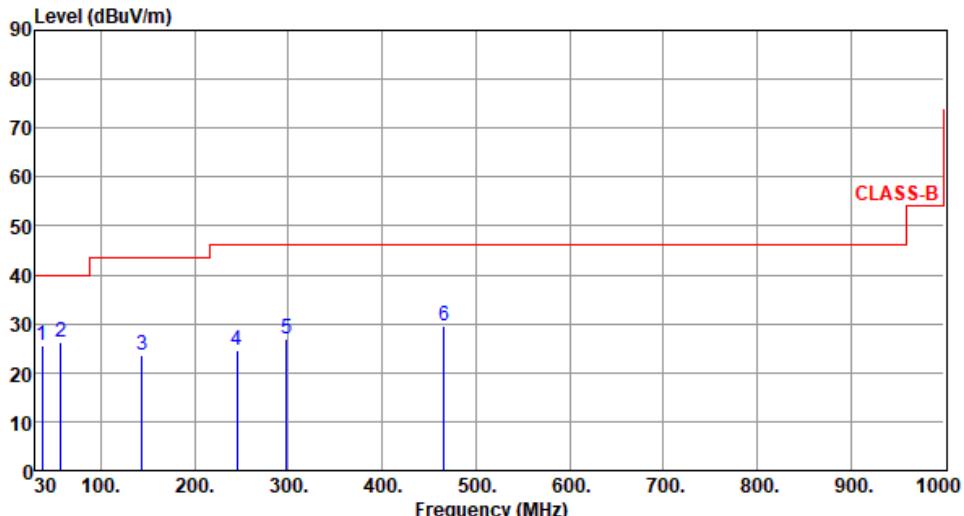
<b>Mode / SF</b>	LoRa / 10	<b>Test Freq. (MHz)</b>	902.3																																																																						
<b>Polarization</b>	Horizontal																																																																								
Test By	:Roger Lu	Temperature(°C):25	Humidity(%):61																																																																						
																																																																									
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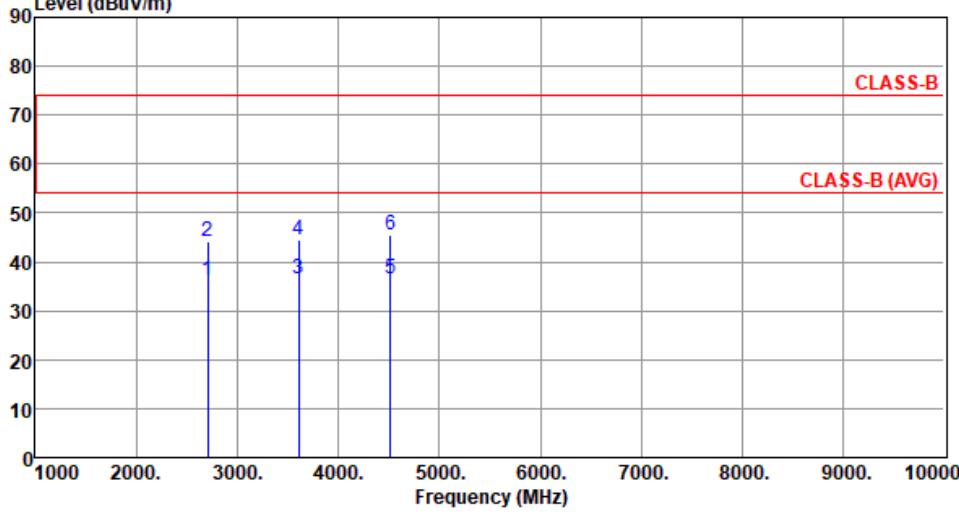
Mode / SF	LoRa / 10	Test Freq. (MHz)	908.5																																																															
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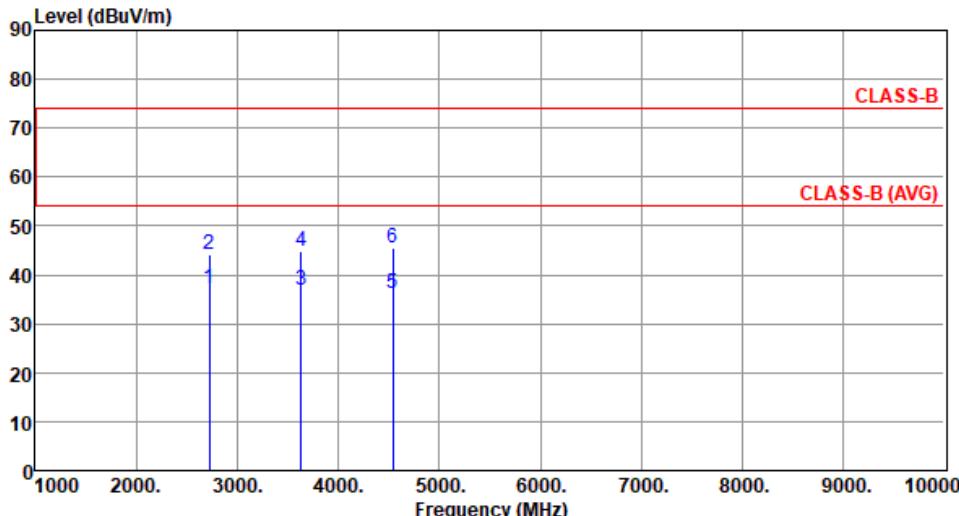
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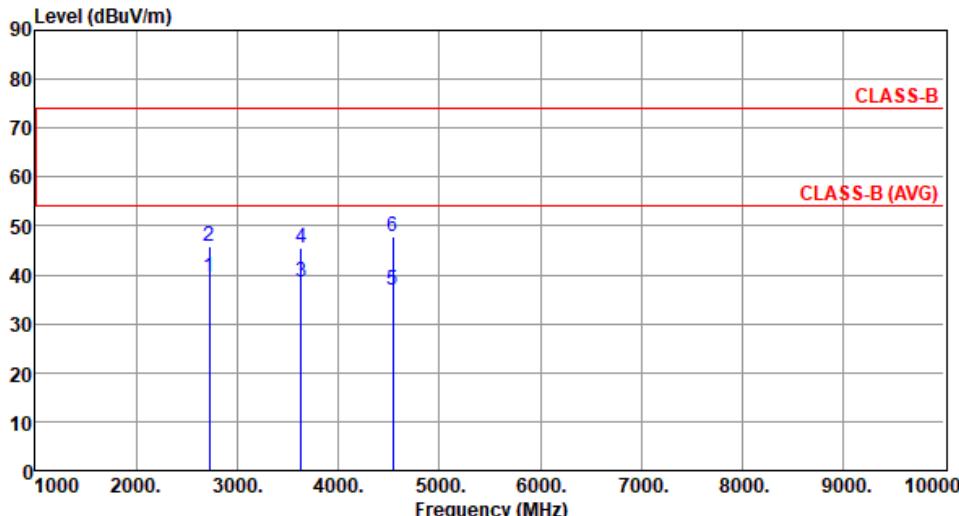
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**Above 1GHz**

<b>Mode / SF</b>	LoRa / 10		<b>Test Freq. (MHz)</b>		902.3																																																																																								
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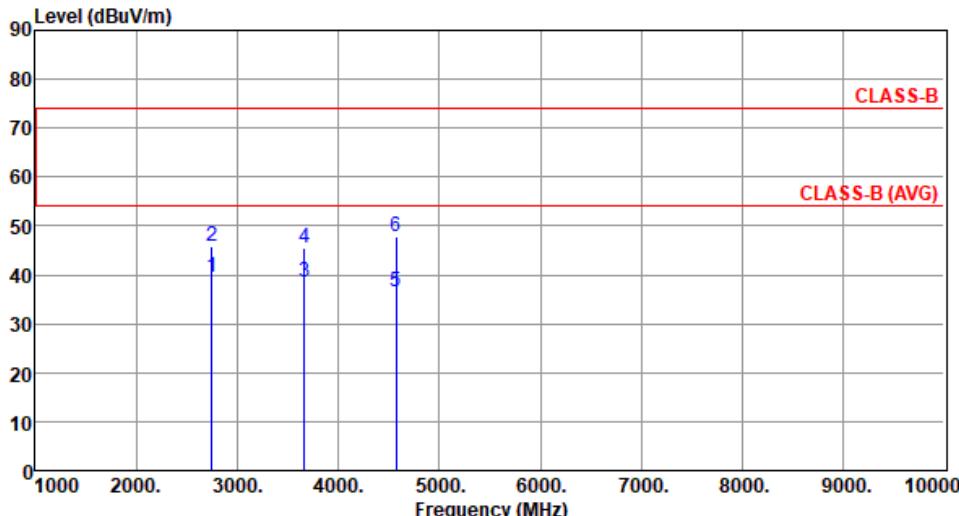
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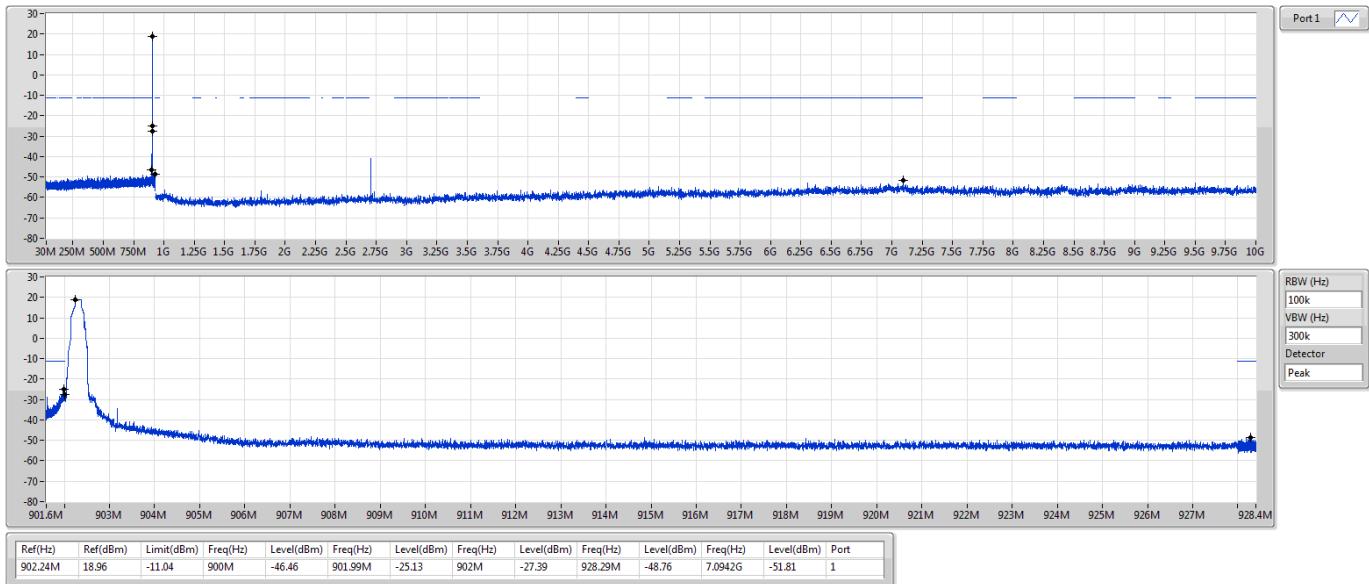
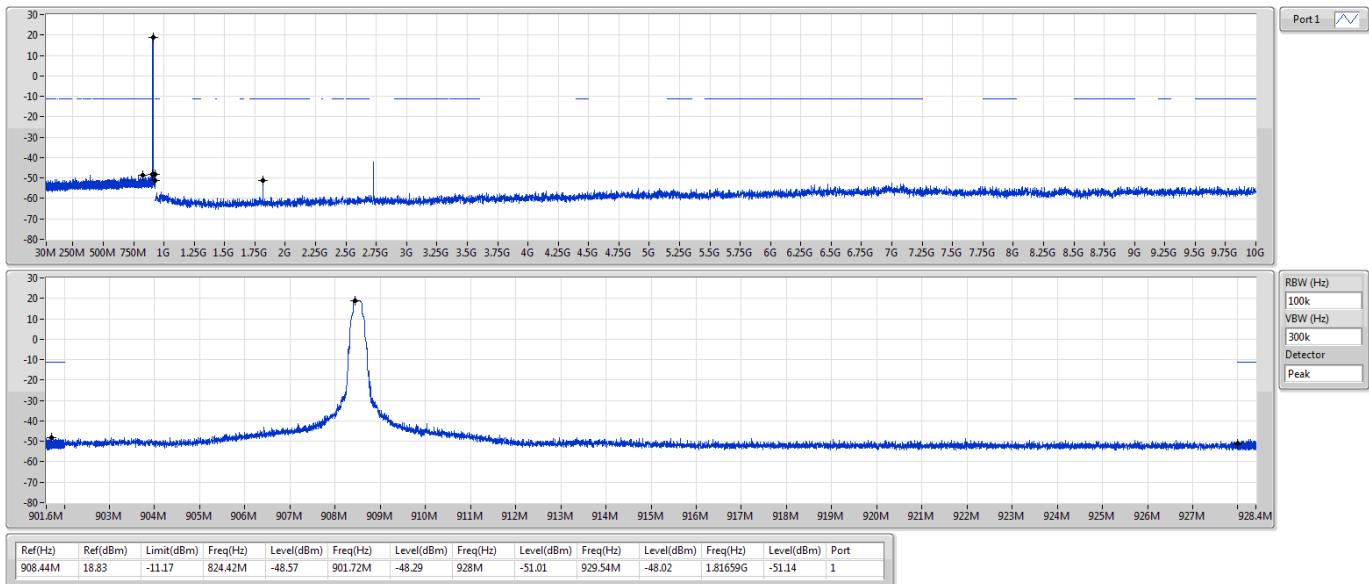
Mode / SF	LoRa / 10	Test Freq. (MHz)	914.9																																																																				
Polarization	Horizontal																																																																						
Test By	:Akun Chung	Temperature (°C):23	Humidity(%):66																																																																				
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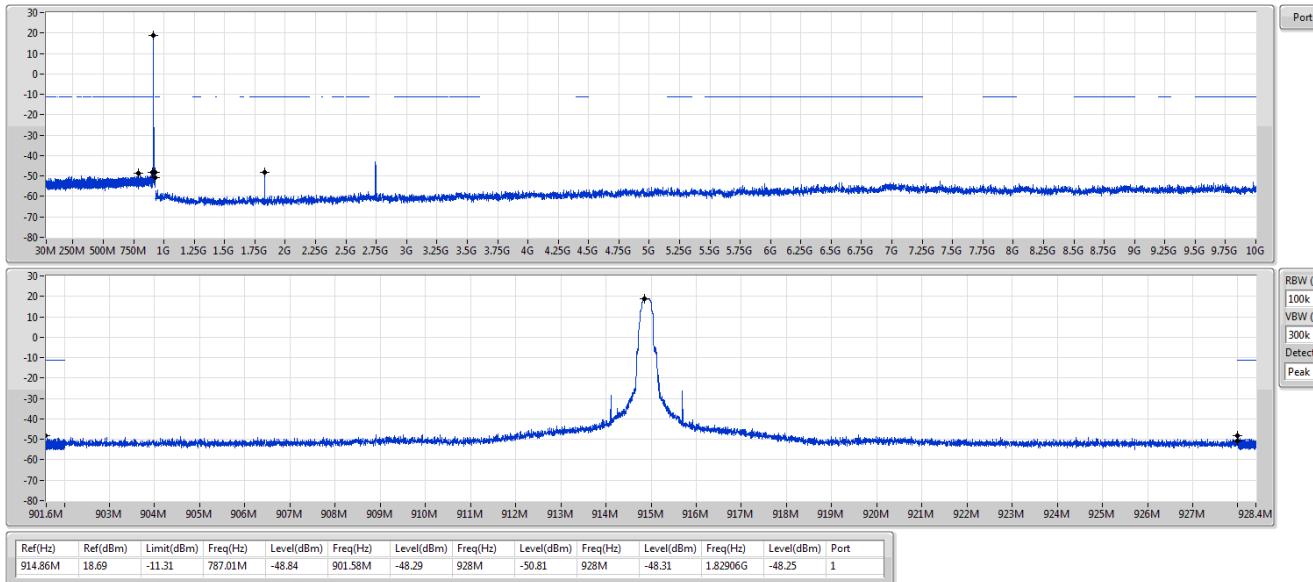
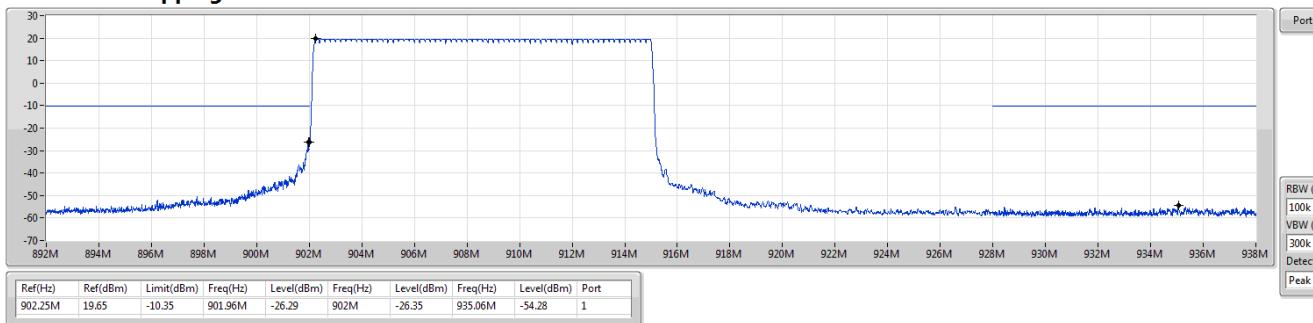
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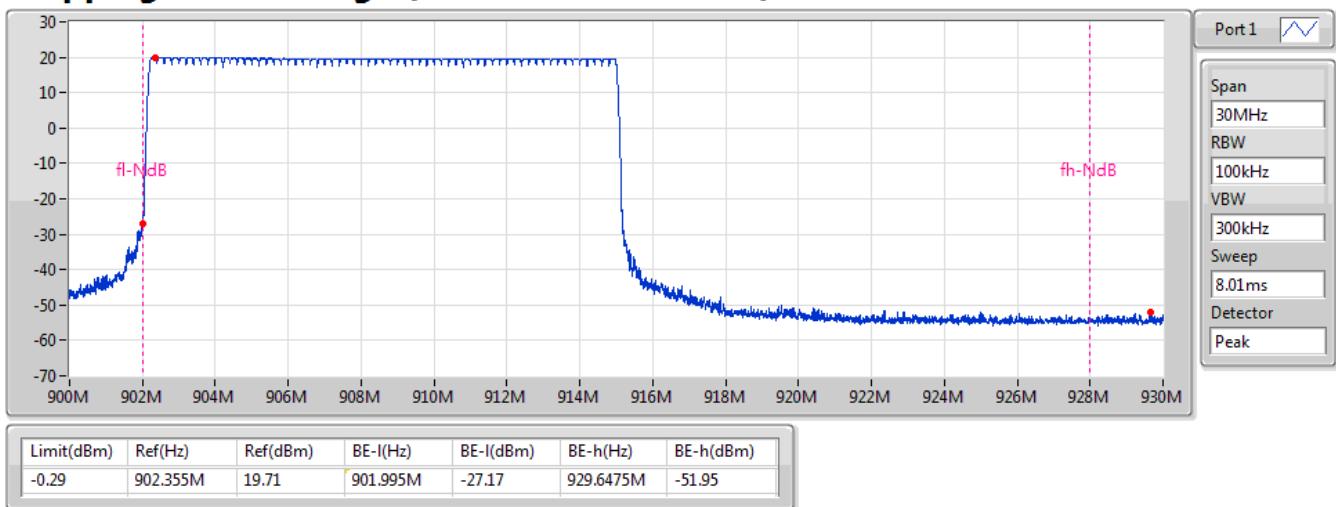
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

**LoRa (125kHz)**
**902.3MHz**
**CSEndB-FS**

**LoRa (125kHz)**
**908.5MHz**
**CSEndB-FS**


**LoRa (125kHz)**
**914.9MHz**
**CSEndB-FS**

**LoRa (125kHz)**
**902.3MHz-Hopping On**
**CSEndB-FS**


**LoRa (125kHz)****902.3MHz****Hopping Ch Bandedge (Non-restricted Band)**



## Conducted Output Power (Average)

## Appendix C

### Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
LoRa (125kHz)	18.97	0.07889

### Result

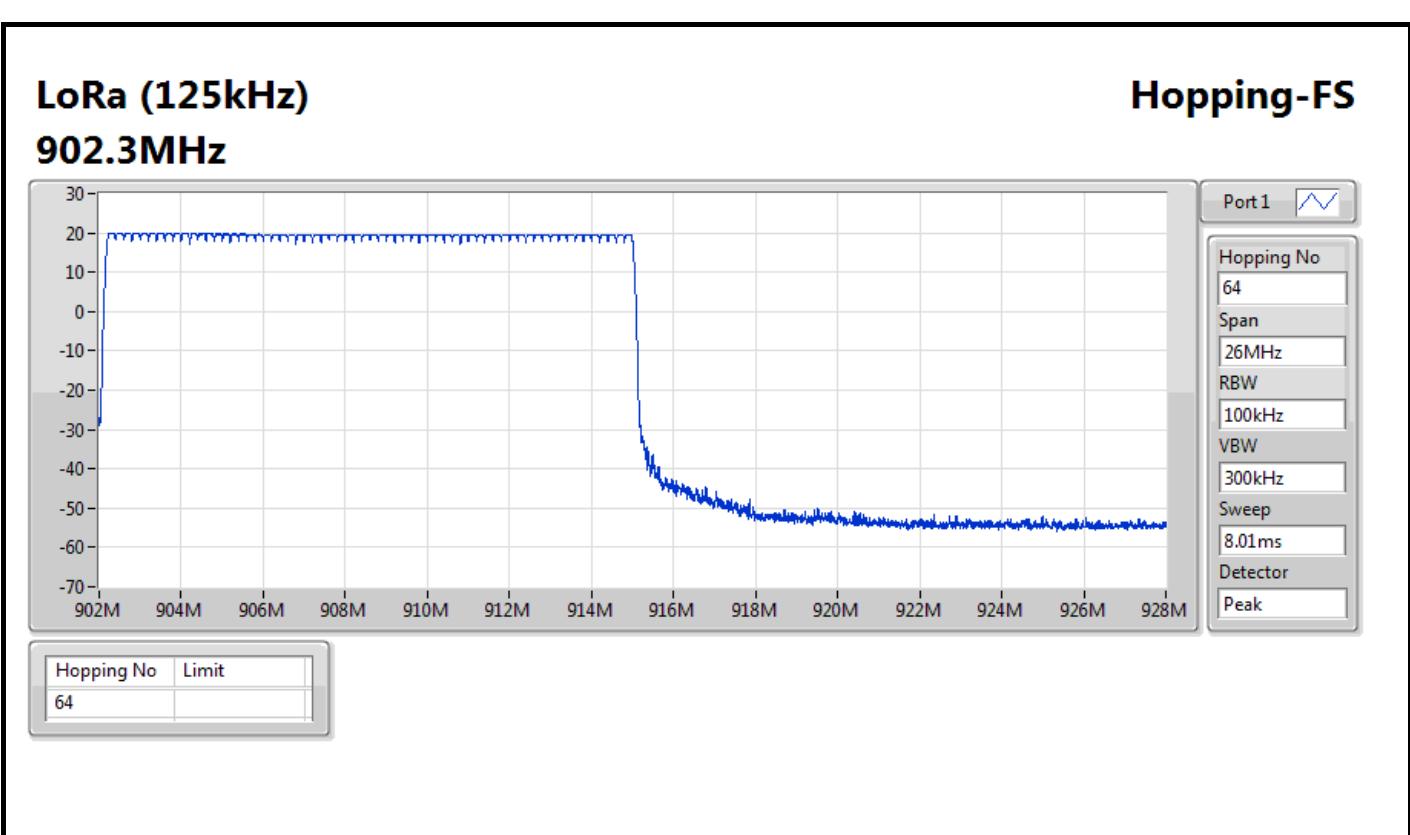
Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	0.27	18.97	30.00
908.5MHz	Pass	0.27	18.87	30.00
914.9MHz	Pass	0.27	18.71	30.00

**Summary**

Mode	Max-Hop No
902-928MHz	-
LoRa (125kHz)	64

**Result**

Mode	Result	Hopping No	Limit
LoRa (125kHz)	-	-	-
902.3MHz	Pass	64	-



**Summary**

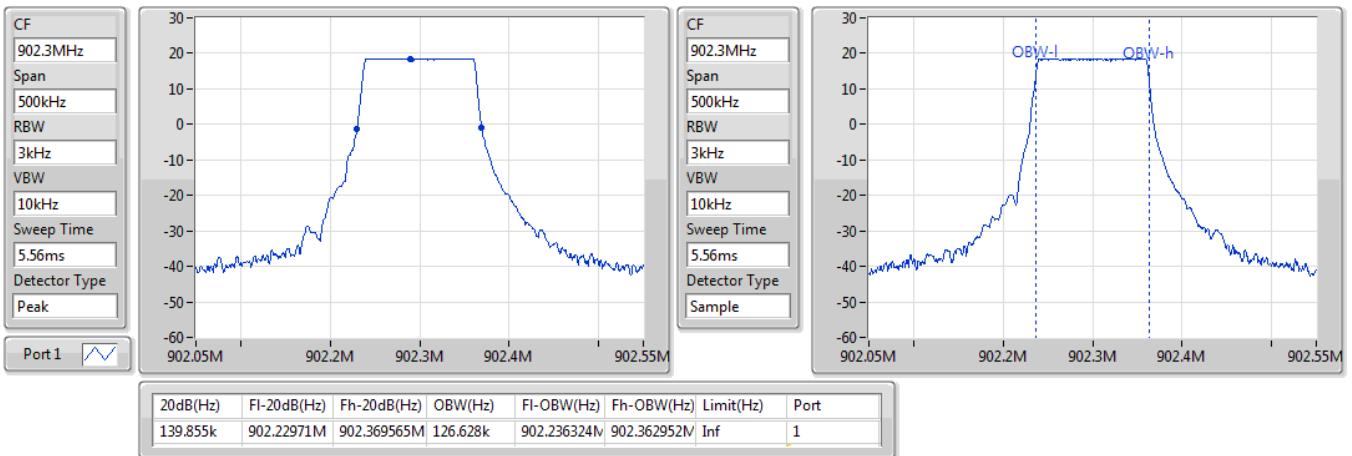
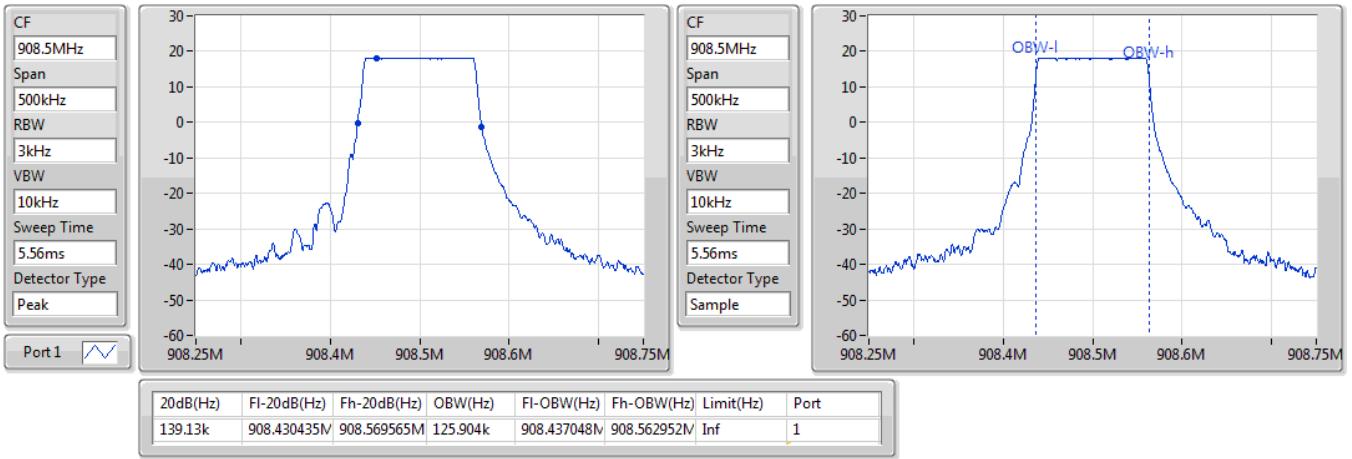
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (125kHz)	139.855k	126.628k	127KF1D	139.13k	125.904k

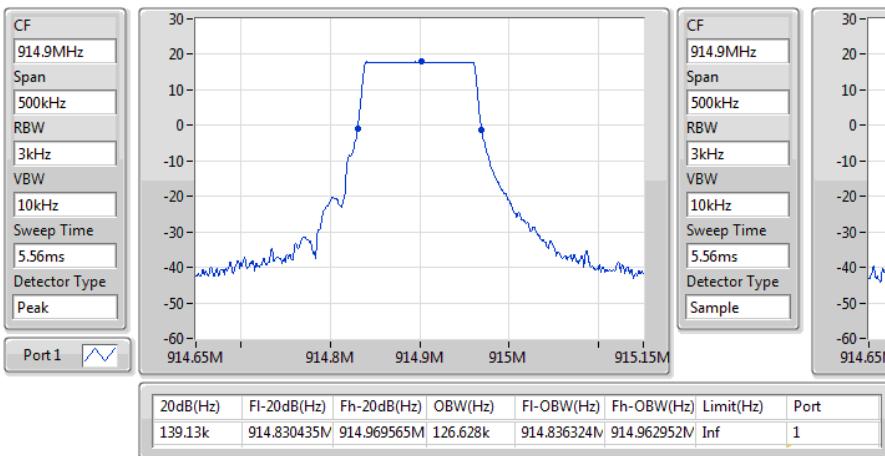
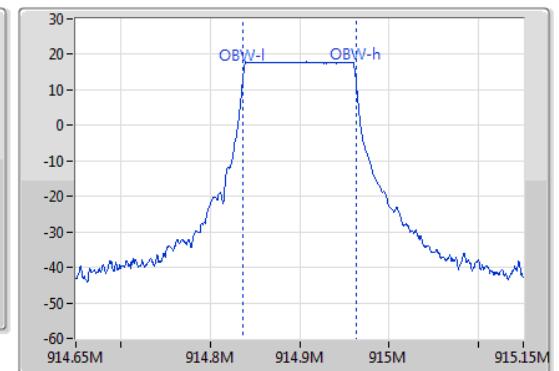
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	Inf	139.855k	126.628k
908.5MHz	Pass	Inf	139.13k	125.904k
914.9MHz	Pass	Inf	139.13k	126.628k

Port X-N dB = Port X 20dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**LoRa (125kHz)**
**902.3MHz**

**LoRa (125kHz)**
**908.5MHz**


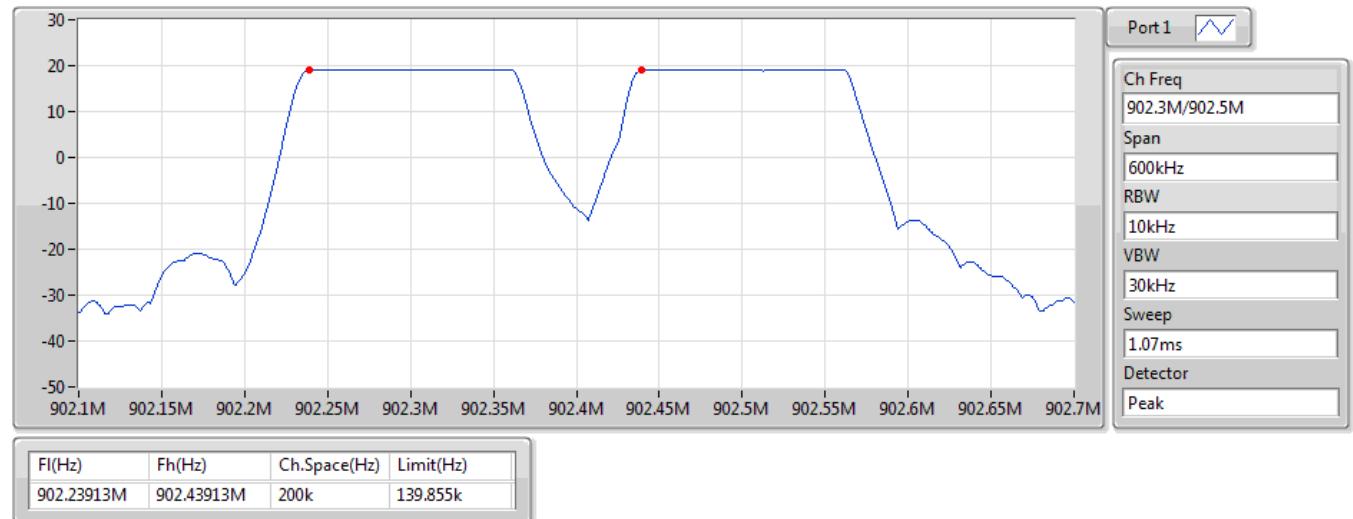
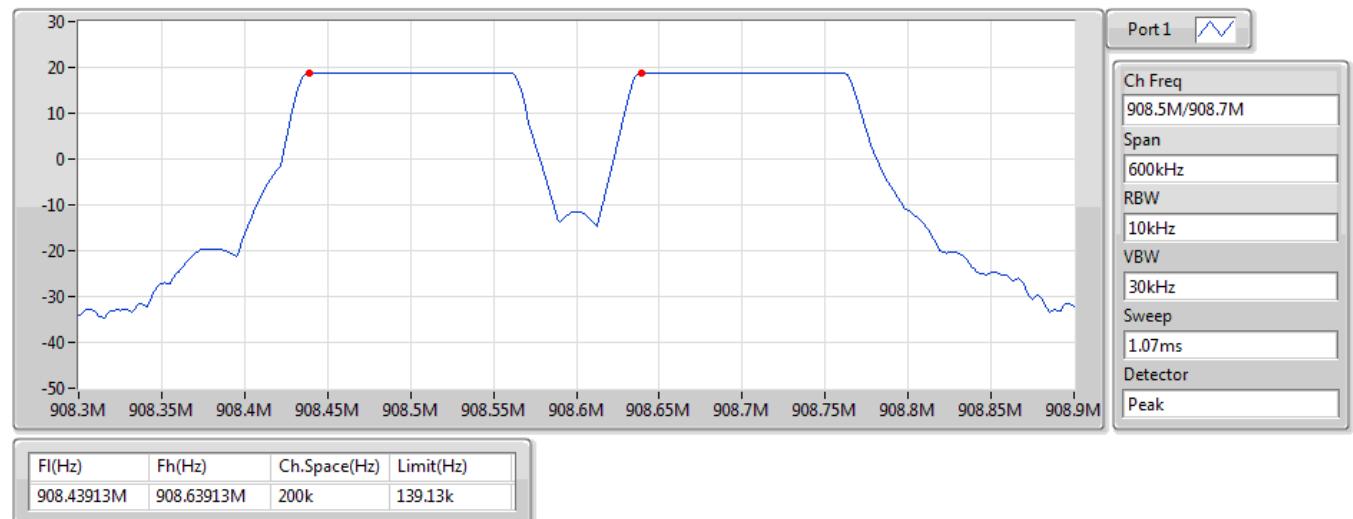
**LoRa (125kHz)**
**914.9MHz**

**EBW-FS**


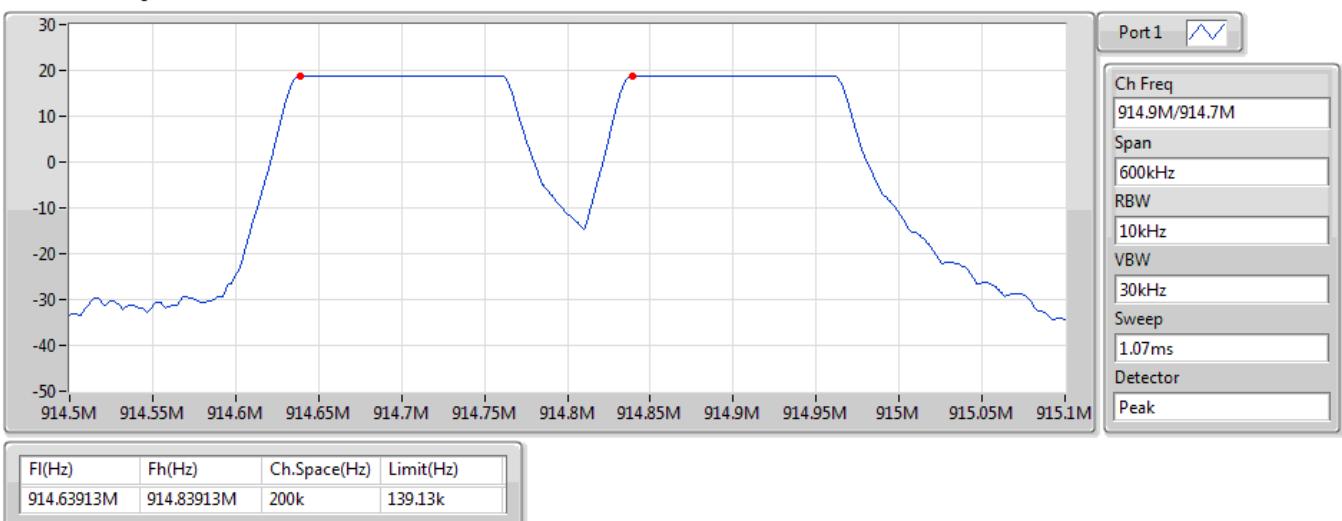
**Summary**

Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
LoRa (125kHz)	200k	200k

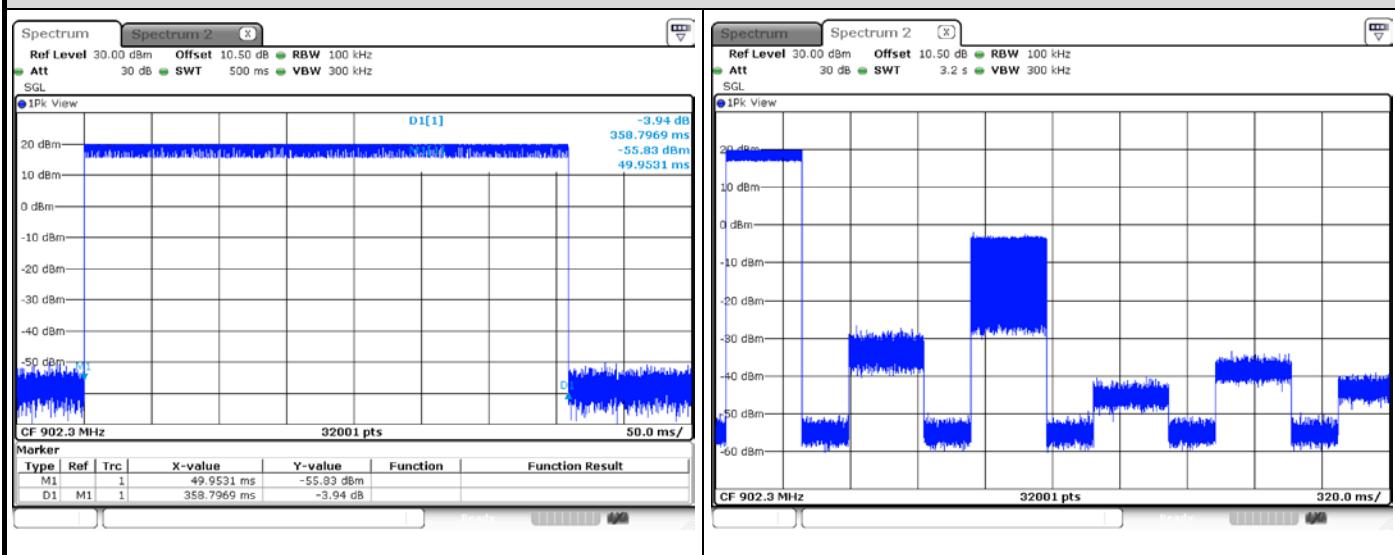
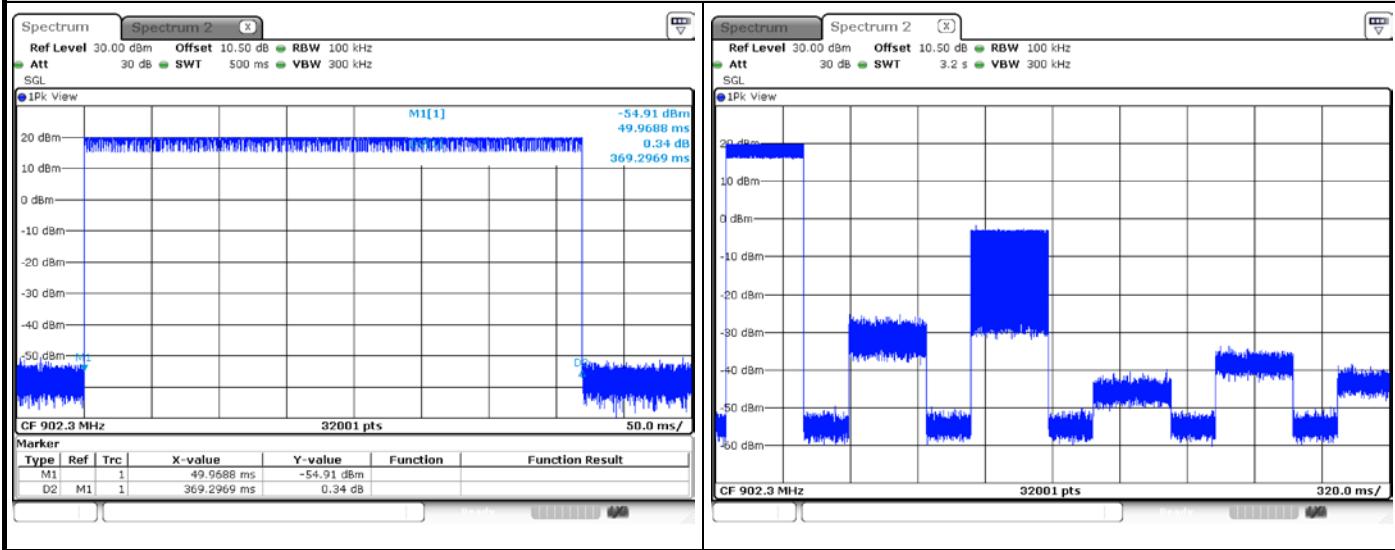
**Result**

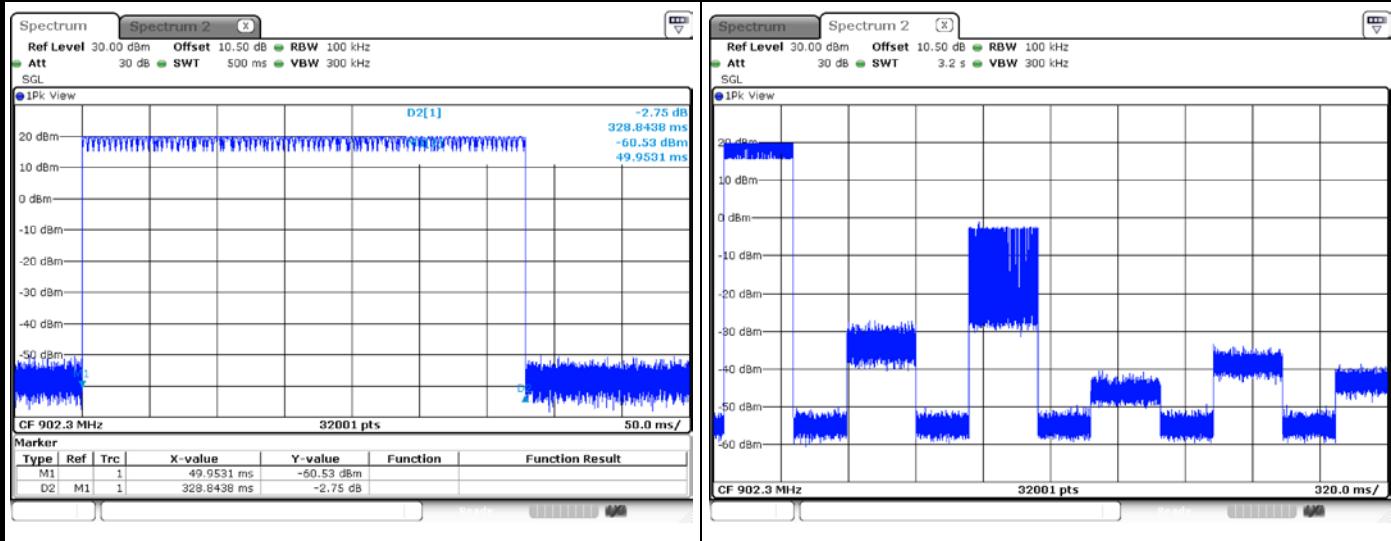
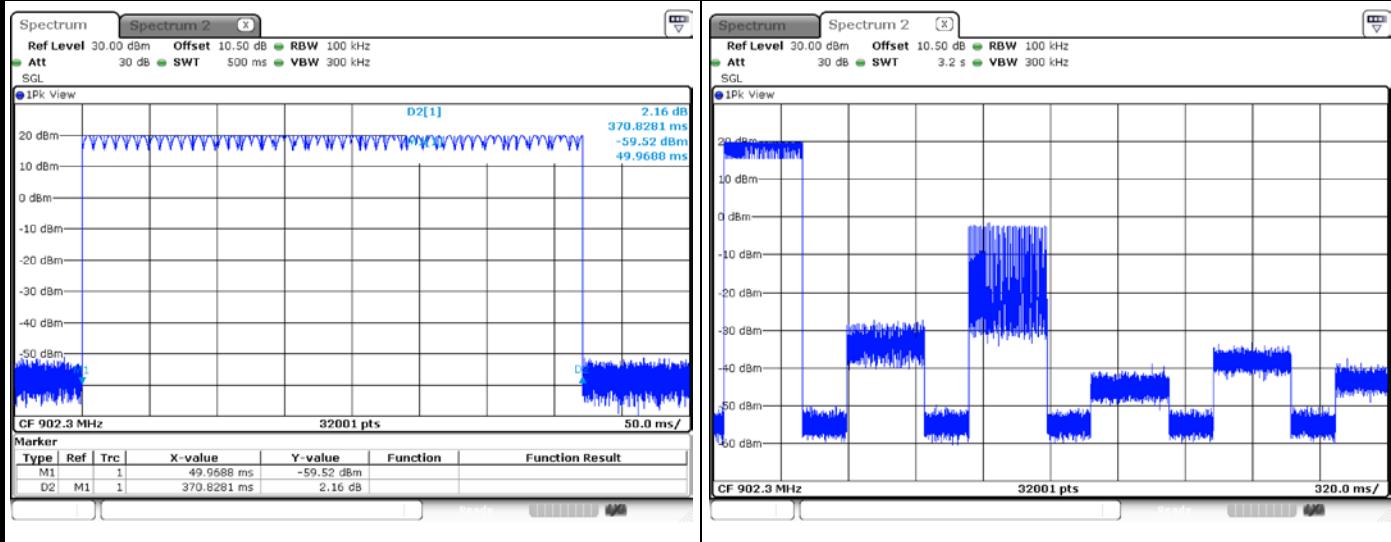
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
LoRa (125kHz)	-	-	-	-	-
902.3MHz	Pass	902.23913M	902.43913M	200k	139.855k
908.5MHz	Pass	908.43913M	908.63913M	200k	139.13k
914.9MHz	Pass	914.63913M	914.83913M	200k	139.13k

**LoRa (125kHz)**
**902.3M/902.5MHz**

**LoRa (125kHz)**
**908.5M/908.7MHz**


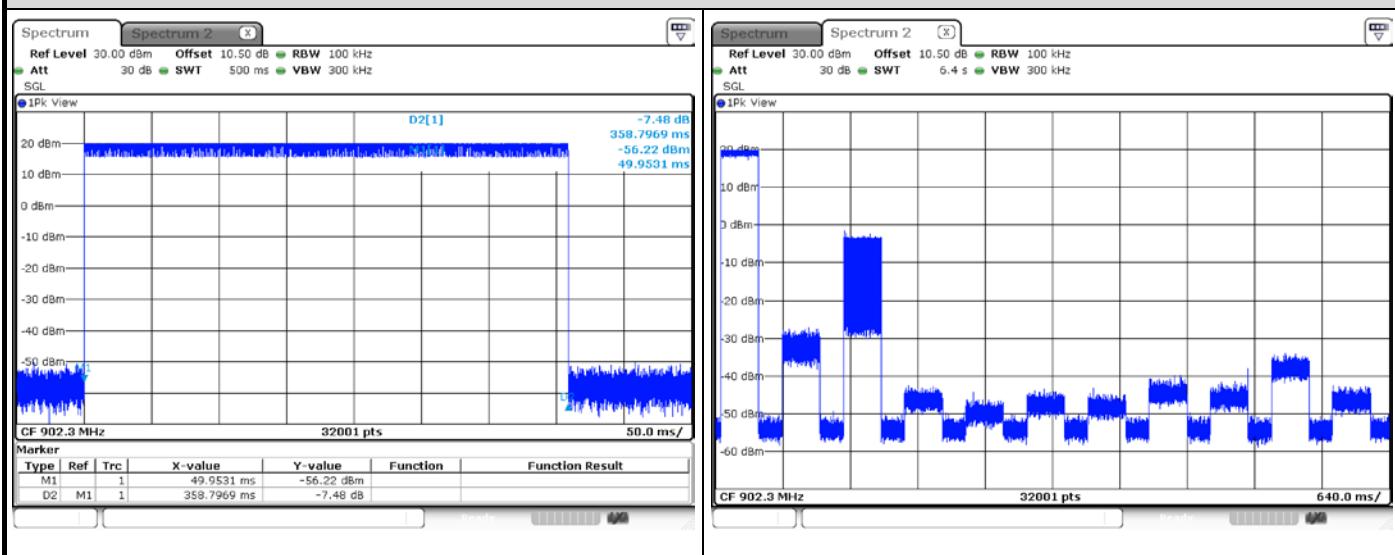
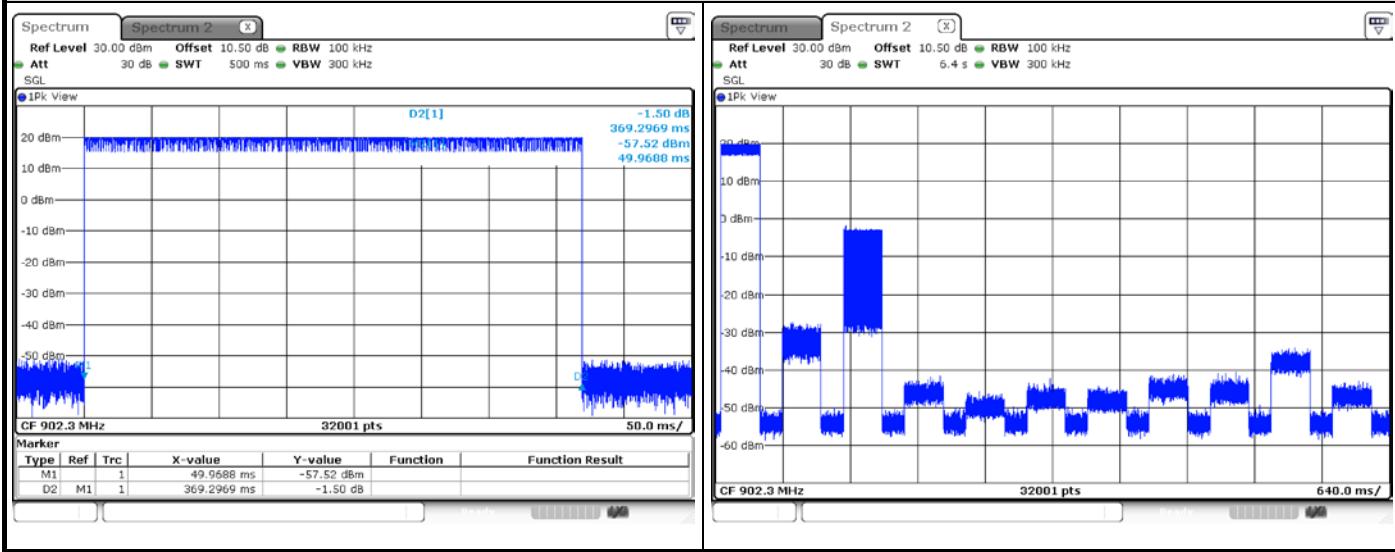
**LoRa (125kHz)****914.9M/914.7MHz****Channel Separation-FS**

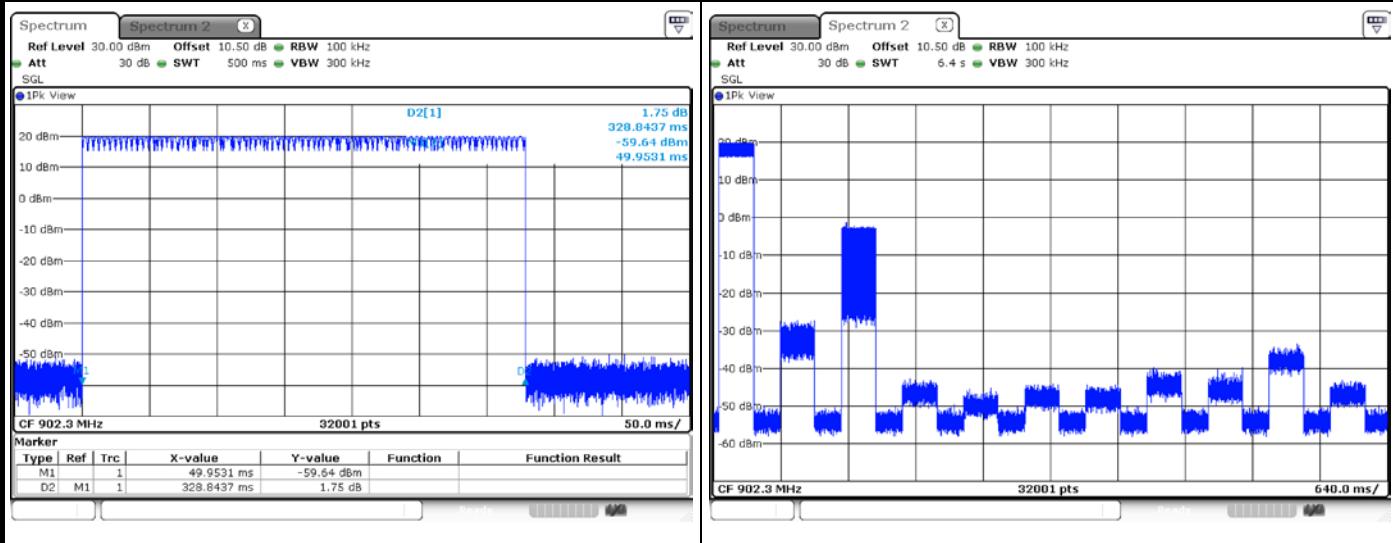
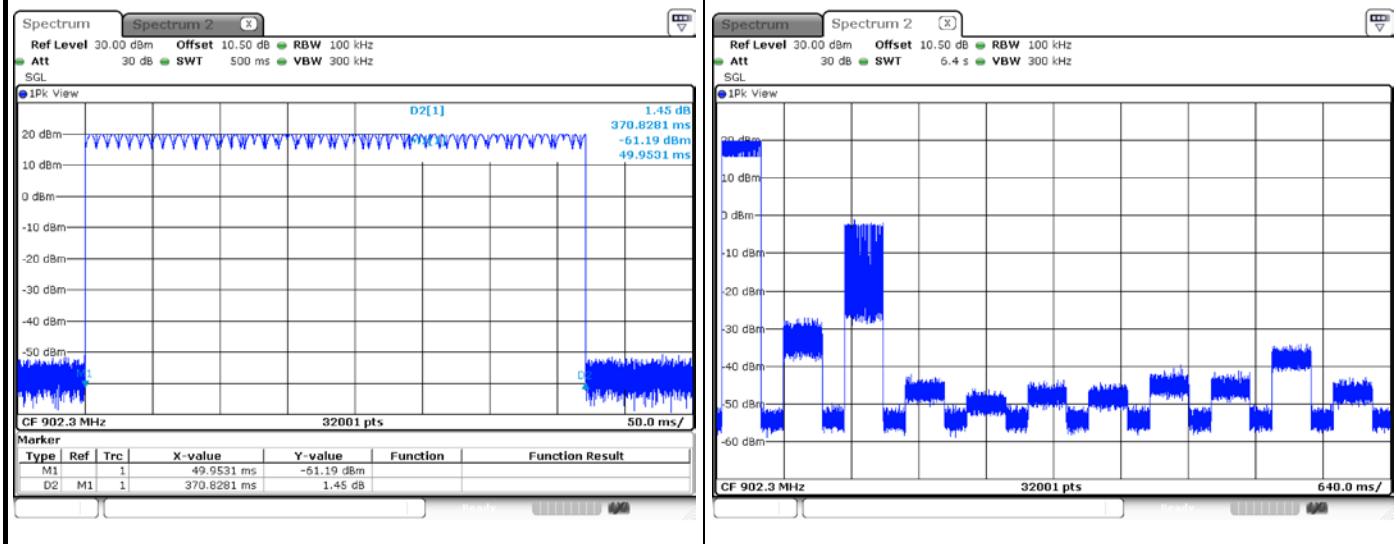
Mode / SF	Freq. (MHz)	Length of Transmission Time (sec)	Number of Transmission in a 3.2 s (8 Hopping*0.4s)	Result (s)	Limit (s)
LoRa / 7	902.3	0.358797	1	0.358797	0.4
LoRa / 8	902.3	0.369297	1	0.369297	0.4
LoRa / 9	902.3	0.328844	1	0.328844	0.4
LoRa / 10	902.3	0.370828	1	0.370828	0.4

**SF 7**

**SF 8**


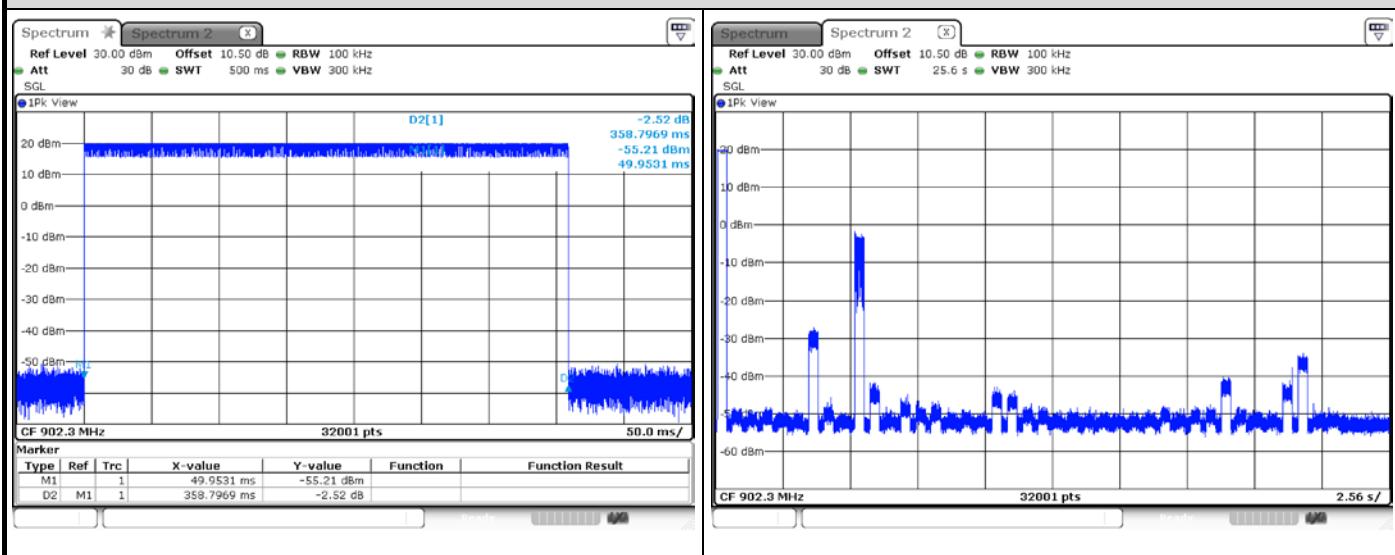
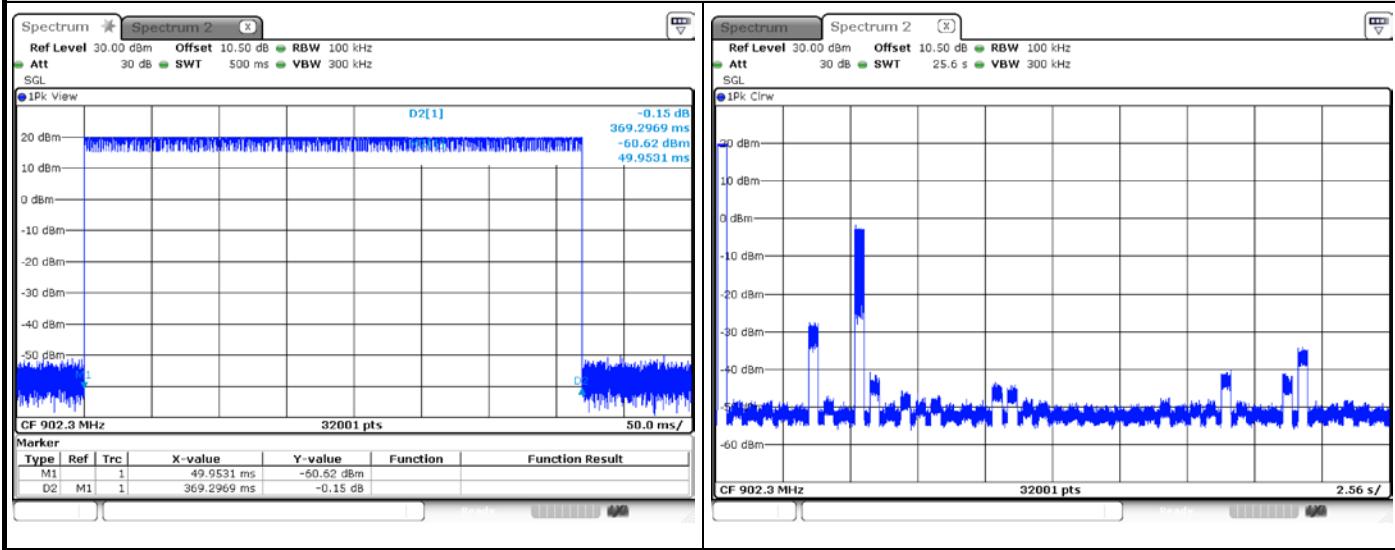
**SF 9**

**SF 10**


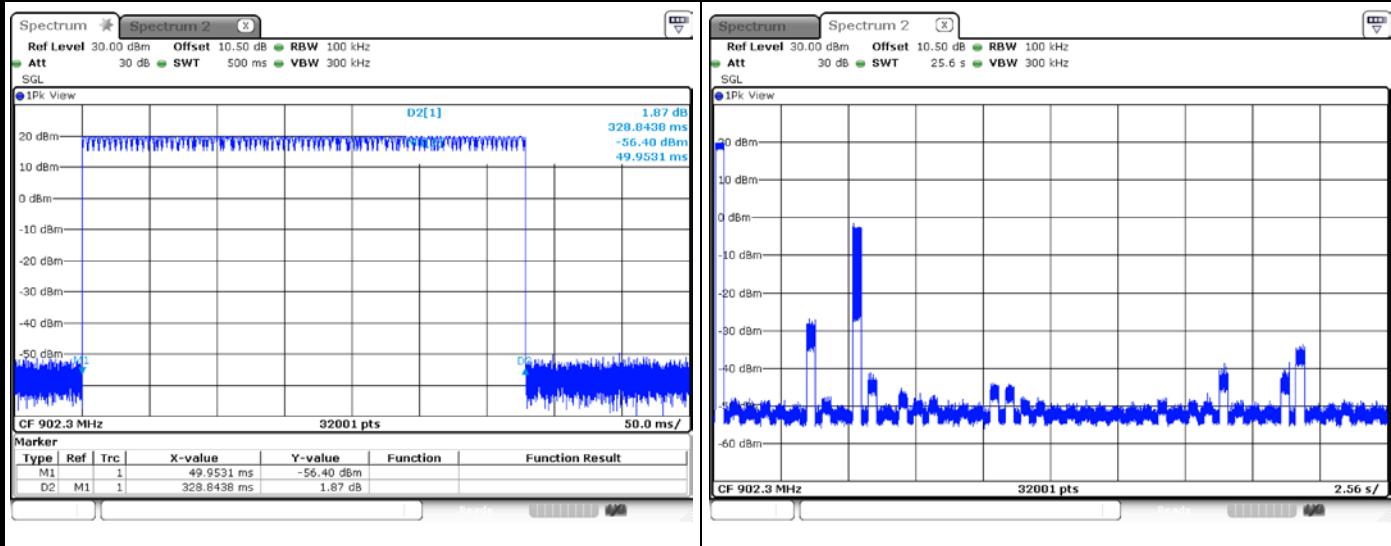
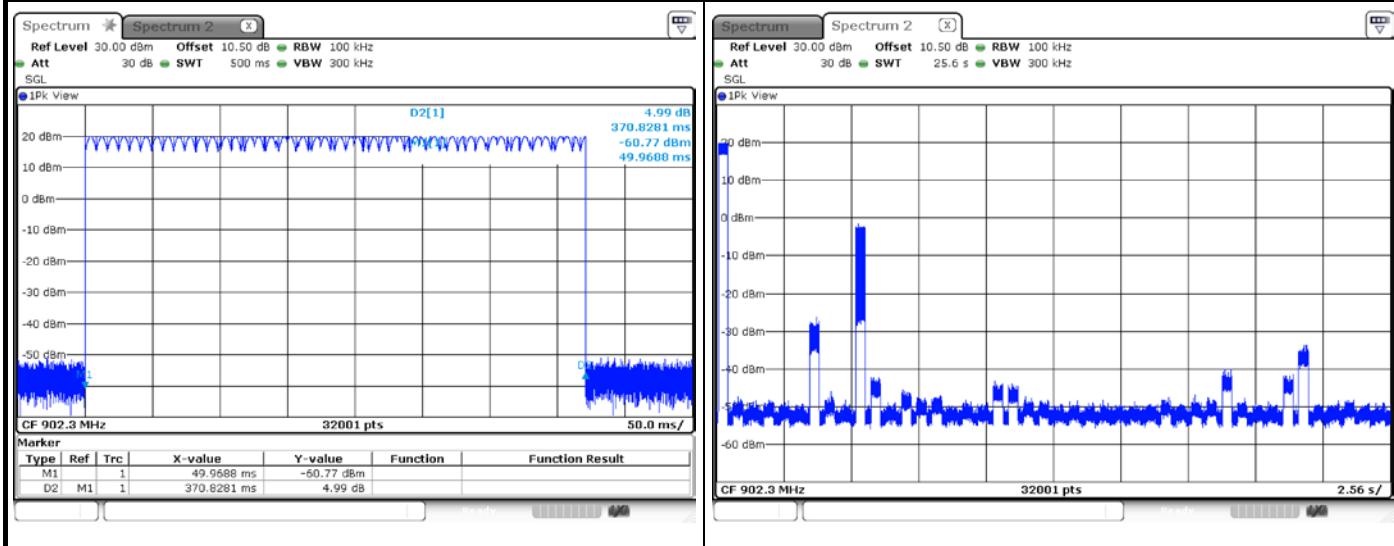
Mode / SF	Freq. (MHz)	Length of Transmission Time (sec)	Number of Transmission in a 6.4 s (16 Hopping*0.4s)	Result (s)	Limit (s)
LoRa / 7	902.3	0.358797	1	0.358797	0.4
LoRa / 8	902.3	0.369297	1	0.369297	0.4
LoRa / 9	902.3	0.328844	1	0.328844	0.4
LoRa / 10	902.3	0.370828	1	0.370828	0.4

**SF 7**

**SF 8**


**SF 9**

**SF 10**


Mode / SF	Freq. (MHz)	Length of Transmission Time (sec)	Number of Transmission in a 25.6 s (64 Hopping*0.4s)	Result (s)	Limit (s)
LoRa / 7	902.3	0.358797	1	0.358797	0.4
LoRa / 8	902.3	0.369297	1	0.369297	0.4
LoRa / 9	902.3	0.328844	1	0.328844	0.4
LoRa / 10	902.3	0.370828	1	0.370828	0.4

**SF 7**

**SF 8**


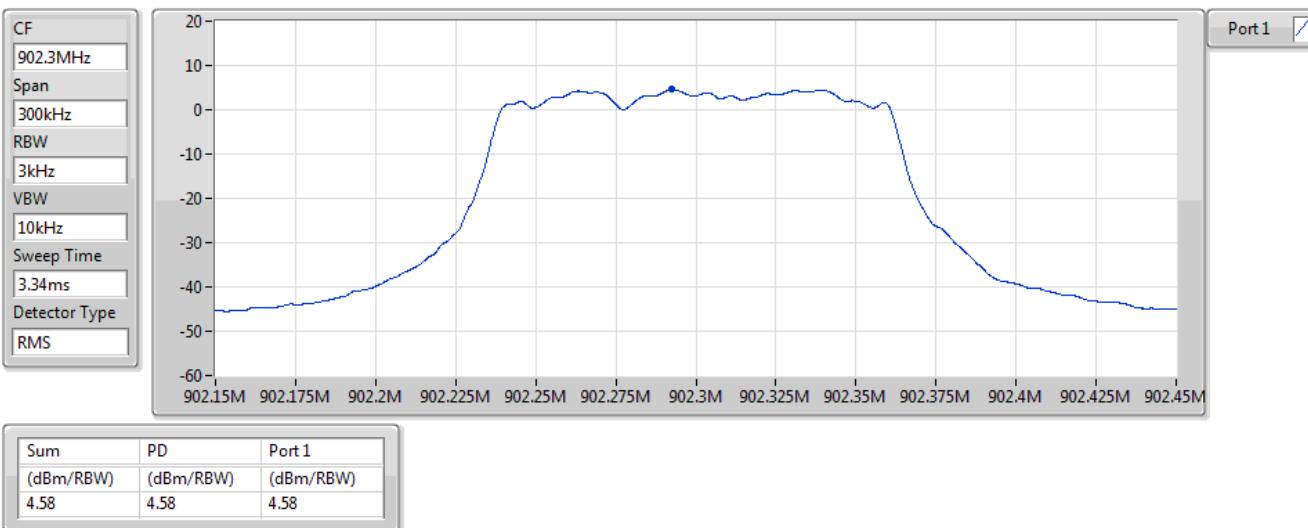
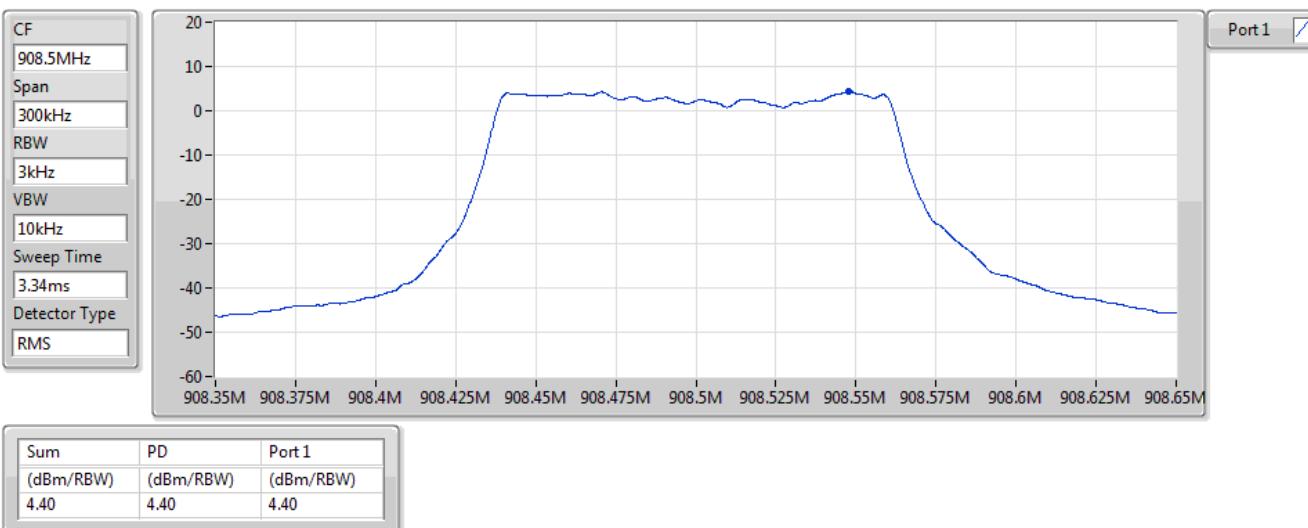
**SF 9**

**SF 10**


**Summary**

Mode	PD (dBm/3kHz)
902-928MHz	-
LoRa (125kHz)	4.97

**Result**

Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	0.27	4.58	8.00
908.5MHz	Pass	0.27	4.40	8.00
914.9MHz	Pass	0.27	4.97	8.00

**LoRa (125kHz)**
**PSD**
**902.3MHz**

**LoRa (125kHz)**
**PSD**
**908.5MHz**


**LoRa (125kHz)****PSD****914.9MHz**