

XMit 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2021-12-05	2022-12-05
Attenuator	S.M. Electronics	SA26B-20	AUY	2022-03-15	2023-03-15
Block - DC	Fairview Microwave	SD3379	AMW	2022-03-14	2023-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2022-09-08	2023-09-08

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode. For each transmit frequency, the fundamental was measured with a 100 kHz resolution bandwidth and the highest value was recorded. The rest of the spectrum was then measured with a 100 kHz resolution bandwidth and the highest value was found. The difference between the value found on the fundamental and the rest of the spectrum was compared against the limit to determine compliance.

The reference level offset for the fundamental screen capture was based on a measured value of the loss between the spectrum analyzer and the EUT which was verified at the time of test. The remaining screen capture(s) use an internal transducer factor on the analyzer to correct the displayed trace based on the cable loss over frequency. The reference level offset for the additional screen capture(s) is then based on the expected attenuator value and any other losses.

Fundamental Offset = Ref Lvl Offset showing measured composite factor of all losses

Remaining Screen capture(s) Offset = "Internal" cable loss factor not shown on screen capture + Ref Lvl Offset showing expected attenuator value and any other losses

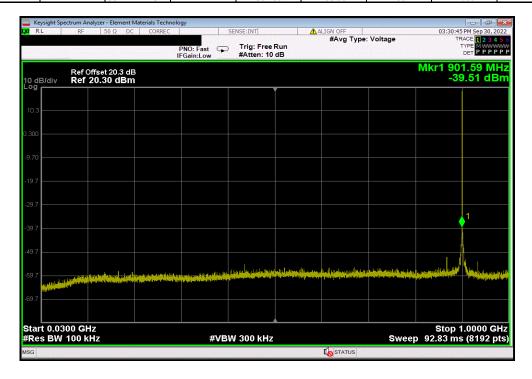


						TbtTx 2022.06.03.0	XMit 2022.
EUT: Pas	sport				Work Order:	ONIT0091	
Serial Number: 445						30-Sep-22	
Customer: Onity Inc.					Temperature:		
Attendees: Ali	Elmi				Humidity:	48.3% RH	
Project: None				Baro	metric Pres.:		
	Tested by: Jeff Alcoke Power: Battery				Job Site:	EV06	
EST SPECIFICATIONS	S						
CC 15.247:2022							
OMMENTS							
		rk, 20 dB attenuator, measurement cab	le and manufacturers provided SMA pa	tcn cable.			
EVIATIONS FROM TE	ST STANDARD						
lone							
Configuration #	3	Signature	leff ff				
			Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
ngle Channel Mode							
	Ra, 125 kHz BW SF 10						
		Ch. 0, 902.3 MHz	Fundamental	902.31	N/A	N/A	N/A
		Ch. 0, 902.3 MHz	Fundamental 30 MHz - 1 GHz	901.59	-58.55	-30	Pass
					-58.55 -51.01		
		Ch. 0, 902.3 MHz	30 MHz - 1 GHz	901.59	-58.55	-30	Pass
		Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz	901.59 1804.3	-58.55 -51.01 N/A -70.78	-30 -30	Pass Pass
		Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental	901.59 1804.3 908.65 876.72 1817.48	-58.55 -51.01 N/A -70.78 -49.96	-30 -30 N/A -30 -30	Pass Pass N/A Pass Pass
		Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz	901.59 1804.3 908.65 876.72	-58.55 -51.01 N/A -70.78	-30 -30 N/A -30	Pass Pass N/A Pass
		Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz	901.59 1804.3 908.65 876.72 1817.48	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03	-30 -30 N/A -30 -30	Pass Pass N/A Pass Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental	901.59 1804.3 908.65 876.72 1817.48 914.85	-58.55 -51.01 N/A -70.78 -49.96 N/A	-30 -30 N/A -30 -30 N/A	Pass Pass N/A Pass Pass N/A
		Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1	-30 -30 N/A -30 -30 N/A -30 -30	Pass Pass N/A Pass Pass N/A Pass Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03	-30 -30 N/A -30 -30 N/A -30	Pass Pass N/A Pass Pass N/A Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883 1829.57	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1	-30 -30 N/A -30 -30 N/A -30 -30	Pass Pass N/A Pass Pass N/A Pass Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 0, 902.3 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883 1829.57	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1	-30 -30 N/A -30 -30 N/A -30 -30	Pass Pass N/A Pass Pass N/A Pass N/A Pass Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883 1829.57	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1 N/A -57.98	-30 -30 N/A -30 -30 N/A -30 -30	Pass Pass N/A Pass Pass N/A Pass N/A Pass Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 0, 902.3 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz GHz - 10 GHz 1 GHz - 10 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883 1829.57 902.26 901.59 1804.3	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1 N/A -57.98 -50.86	-30 -30 N/A -30 -30 N/A -30 -30 -30	Pass Pass N/A Pass Pass N/A Pass Pass N/A Pass Pass N/A Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz GHz - 10 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz 1 GHz - 10 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883 1829.57 902.26 901.59 1804.3 908.65	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1 N/A -57.98 -50.86 N/A	-30 -30 N/A -30 -30 N/A -30 -30 N/A -30 -30 N/A	Pass Pass N/A Pass Pass N/A Pass Pass N/A Pass Pass N/A Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz 1 GHz - 10 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883 1829.57 902.26 901.59 1804.3 908.65 876.72	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1 N/A -57.98 -50.86 N/A -71.07	-30 -30 N/A -30 -30 N/A -30 -30 N/A -30 -30 -30 N/A -30	Pass Pass N/A Pass Pass N/A Pass N/A Pass Pass N/A Pass Pass
	SF 10	Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 63, 914.9 MHz Ch. 60, 902.3 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 0, 902.3 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz Ch. 32, 908.7 MHz	30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz 1 GHz - 10 GHz Fundamental 30 MHz - 1 GHz Fundamental 30 MHz - 1 GHz Fundamental 30 MHz - 1 GHz	901.59 1804.3 908.65 876.72 1817.48 914.85 883 1829.57 902.26 901.59 1804.3 908.65 876.72	-58.55 -51.01 N/A -70.78 -49.96 N/A -71.03 -49.1 N/A -57.98 -50.86 N/A -71.07 -49.9	-30 -30 N/A -30 -30 N/A -30 -30 -30 N/A -30 -30 -30 -30 -30	Pass Pass N/A Pass Pass N/A Pass Pass Pass N/A Pass Pass Pass Pass Pass





Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 0, 902.3 MHz								
Frequency	Frequency Measured Max Value Limit							
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
30 MHz - 1 GHz	901.59	-58.55	-30	Pass				



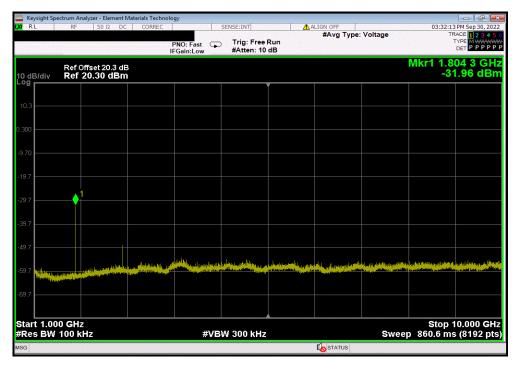


 Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 0, 902.3 MHz

 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBc)
 ≤ (dBc)
 Result

 1 GHz - 10 GHz
 1804.3
 -51.01
 -30
 Pass



Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 32, 908.7 MHz								
Frequency	Frequency Measured Max Value Limit							
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
Fundamental	908.65	N/A	N/A	N/A				



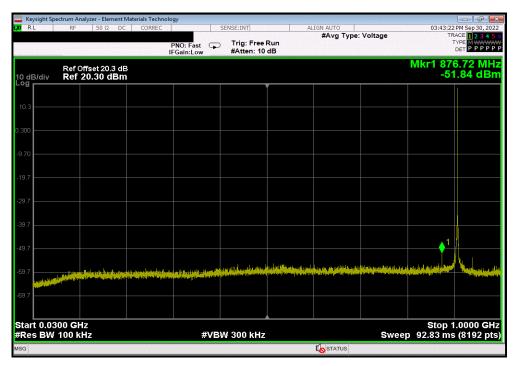


 Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 32, 908.7 MHz

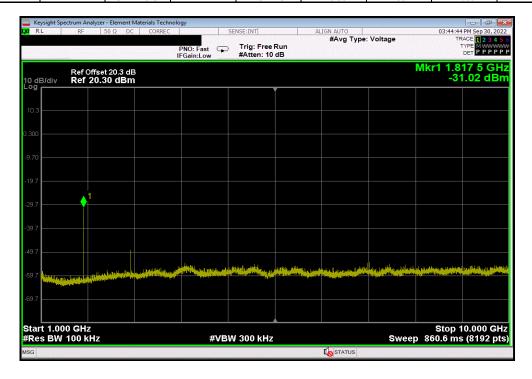
 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBc)
 ≤ (dBc)
 Result

 30 MHz - 1 GHz
 876.72
 -70.78
 -30
 Pass



Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 32, 908.7 MHz								
Frequency	Frequency Measured Max Value Limit							
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
1 GHz - 10 GHz	1817.48	-49.96	-30	Pass				



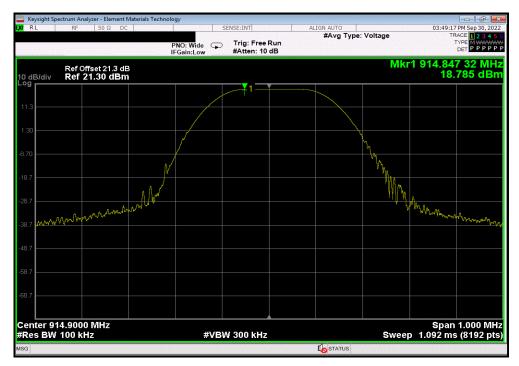


 Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 63, 914.9 MHz

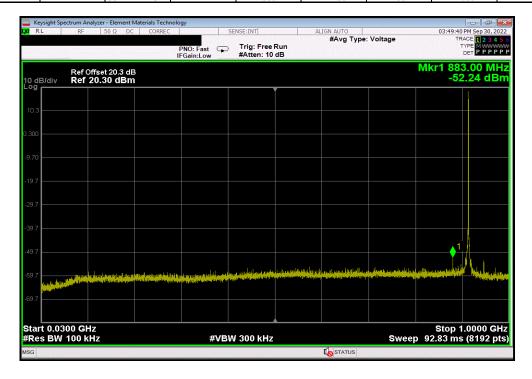
 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBc)
 ≤ (dBc)
 Result

 Fundamental
 914.85
 N/A
 N/A
 N/A



Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 63, 914.9 MHz								
Frequency	Frequency Measured Max Value Limit							
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
30 MHz - 1 GHz	883	-71.03	-30	Pass				



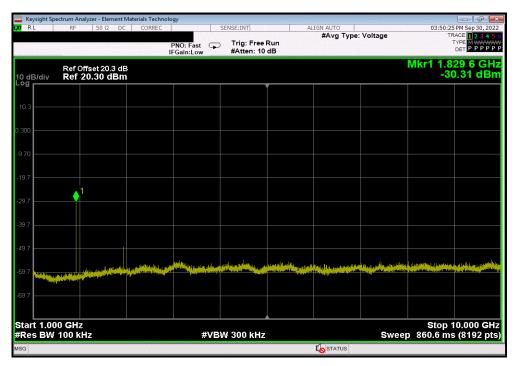


 Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 63, 914.9 MHz

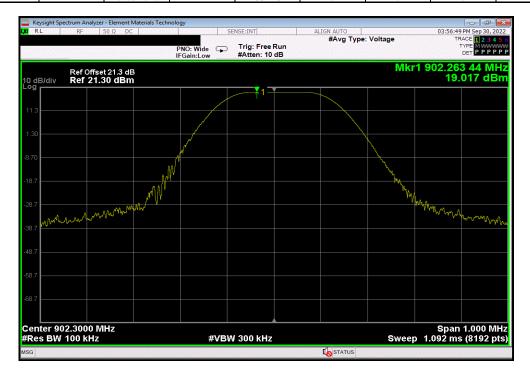
 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBc)
 ≤ (dBc)
 Result

 1 GHz - 10 GHz
 1829.57
 -49.1
 -30
 Pass



Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 0, 902.3 MHz								
Frequency Measured Max Value Limit								
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
Fundamental	902.26	N/A	N/A	N/A				



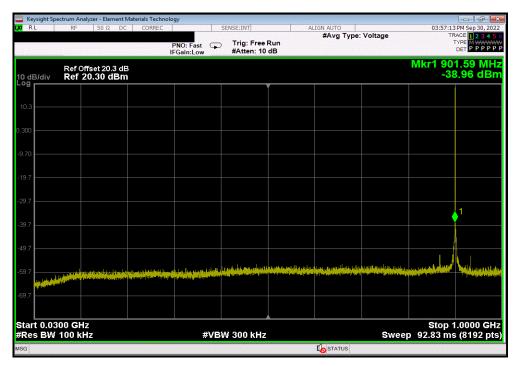


 Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 0, 902.3 MHz

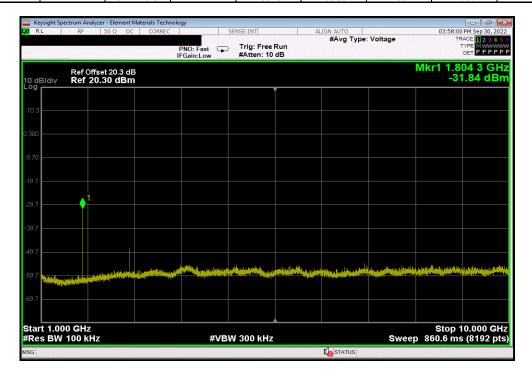
 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBc)
 ≤ (dBc)
 Result

 30 MHz - 1 GHz
 901.59
 -57.98
 -30
 Pass

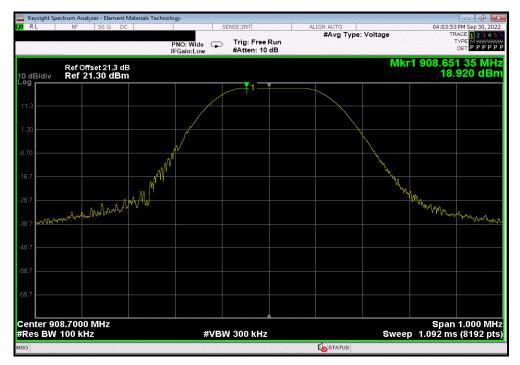


Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 0, 902.3 MHz								
Frequency Measured Max Value Limit								
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
1 GHz - 10 GHz	1804.3	-50.86	-30	Pass				

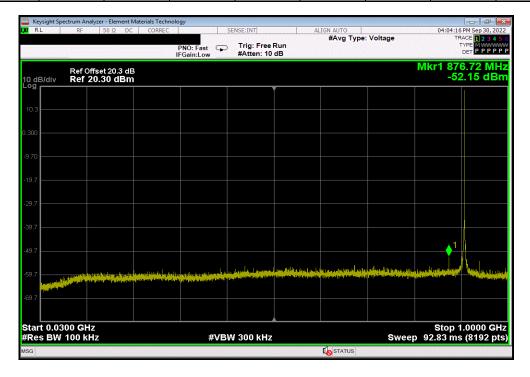




| Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 32, 908.7 MHz |
Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
Fundamental	908.65	N/A	N/A	N/A



	Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 32, 908.7 MHz								
	Frequency	Frequency Measured Max Value Limit							
_	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
l	30 MHz - 1 GHz	876.72	-71.07	-30	Pass				



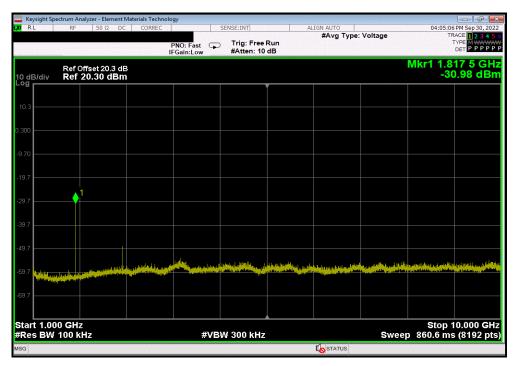


 Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 32, 908.7 MHz

 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBc)
 ≤ (dBc)
 Result

 1 GHz - 10 GHz
 1817.48
 -49.9
 -30
 Pass



	Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 63, 914.9 MHz								
	Frequency Measured Max Value Limit								
_	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
ı	Fundamental	914.86	N/A	N/A	N/A				



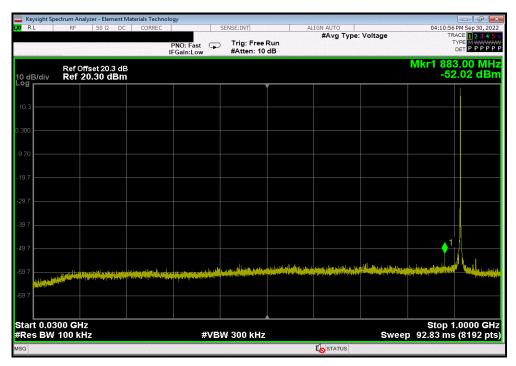


 Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 63, 914.9 MHz

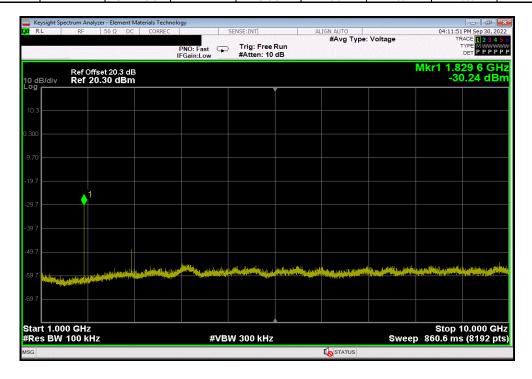
 Frequency
 Measured
 Max Value
 Limit

 Range
 Freq (MHz)
 (dBc)
 ≤ (dBc)
 Result

 30 MHz - 1 GHz
 883
 -70.8
 -30
 Pass



Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 63, 914.9 MHz								
Frequency	Frequency Measured Max Value Limit							
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result				
1 GHz - 10 GHz	1829.57	-49.02	-30	Pass				





XMit 2023.02.14.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Description Manufacturer		ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	None	10m Test Distance Cable	EVL	2021-11-30	2022-11-30
Attenuator	S.M. Electronics	SA26B-20	AUY	2022-03-15	2023-03-15
Block - DC	Fairview Microwave	SD3379	AMW	2022-03-14	2023-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2022-09-08	2023-09-08

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The power spectral density was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method AVGPSD-1 in section 11.10.3 of ANSI C63.10:2013 was used to make the measurement. This method uses trace averaging and RMS detection across the full power of the burst.



						TbtTx 2022.06.03.0	XMit 2023.02.14.0
	Passport				Work Order:		
Serial Number:						30-Sep-22	
Customer:	Onity Inc.				Temperature:	22.7°C	
Attendees:					Humidity:		
Project:					Barometric Pres.:		
	Jeff Alcoke		Power:	Battery	Job Site:	EV06	
TEST SPECIFICAT	TONS			Test Method			
FCC 15.247:2023				ANSI C63.10:2013			
COMMENTS							
Reference level off	fset includes: DC Block, 2	20 dB attenuator, measurement	t cable, and manufacturers	SMA patch cable.	<u> </u>		
	,	,					
DEVIATIONS FROM	M TEST STANDARD						
None							
Configuration #	ONIT0091-3	Signature	Jeff				
					Value dBm/3kHz	Limit < dBm/3kHz	Results
Single Channel Mod							
	LoRa, 125 kHz BW						
	SF 10						
		Ch. 0, 902.3 MHz			5.579	8	Pass
		Ch. 32, 908.7 MHz			5.565	8	Pass
		Ch. 63, 914.9 MHz			2.439	8	Pass
	SF 7						
		Ch. 0, 902.3 MHz			4.584	8	Pass
		Ch. 32, 908.7 MHz			4.778	8	Pass
		Ch. 63, 914,9 MHz			4.158	8	Pass

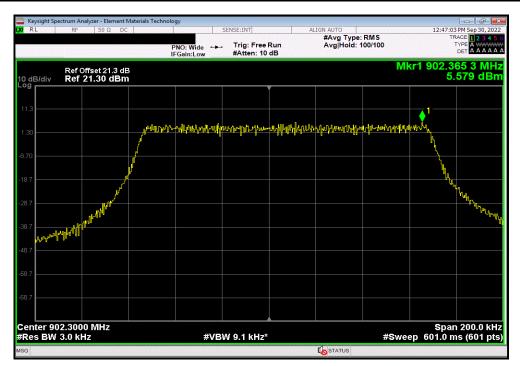


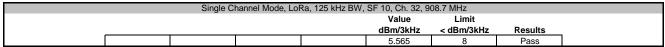
Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 0, 902.3 MHz

Value Limit

dBm/3kHz < dBm/3kHz Results

5.579 8 Pass









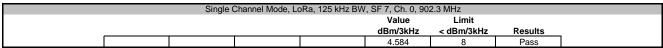
Single Channel Mode, LoRa, 125 kHz BW, SF 10, Ch. 63, 914.9 MHz

Value Limit

dBm/3kHz < dBm/3kHz Results

2.439 8 Pass









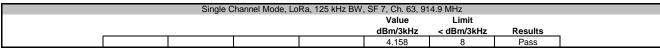
Single Channel Mode, LoRa, 125 kHz BW, SF 7, Ch. 32, 908.7 MHz

Value
Limit

dBm/3kHz < dBm/3kHz Results

4.778 8 Pass









End of Test Report