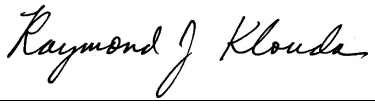




Engineering Test Report No. 2100035-01 Rev. A

Report Date	February 25, 2021	
Manufacturer Name	Genie	
Manufacturer Address	2501 S State Hwy 121 Ste 200 Lewisville, TX 75067	
Model No.	U2	ISED HVIN: ACSCTG-UNV2 ; OUT-P ISED PMN: ACSCTG-UNV2 ; OUT-P
Date Received	February 22, 2021	
Test Dates	February 22 - 24, 2021	
Specifications	FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.231 (b) Innovation, Science, and Economic Development Canada, RSS-210 Innovation, Science, and Economic Development Canada, RSS-GEN	
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515	FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107
Signature		
Tested by	Javier Cardenas	Tylar Jozefczyk
Signature		
Approved by	Raymond J. Klouda, Registered Professional Engineer of Illinois – 44894	
PO Number	940215	

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Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.231 and Innovation, Science, and Economic Development Canada, RSS-210 and RSS-Gen test specification(s). The data presented in this test report pertains to the EUT on the test dates specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification. This report must not be used to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

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1. Report Revision History

Revision	Date	Description
–	12 MAR 2021	Initial Release of Engineering Test Report No. 2100035-01 Rev. A
A	7 JULY 2021 By REK	- Throughout report: Changed 2100035-01 to 2100035-01 Rev. A. - Throughout report: Added ISED HVIN and ISED PMN numbers. - Section 8.0: Changed 733.92MHz to 433.92MHz.

2. Introduction

2.1. Scope of Tests

This document presents the results of a series of RF emissions tests that were performed on the Genie Universal 2 Button Transmitter (hereinafter referred to as the Equipment Under Test (EUT)). The EUT was manufactured and submitted for testing by Genie located in Lewisville, TX.

2.2. Purpose

The test series was performed to determine if the EUT meets the RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Section 15.231(b).

The test series was also performed to determine if the EUT meets the RF emission requirements of the Industry Canada Radio Standards Specification RSS-Gen and Industry Canada Radio Standards Specification RSS-210 for Transmitters.

Testing was performed in accordance with ANSI C63.10-2013.

2.3. Identification of the EUT

The EUT was identified as follows:

EUT Identification	
Product Description	Universal 2 Button Transmitter
Model/Part No.	U2
ISED HVIN	ACSCTG-UNV2 ; OUT-P
ISED PMN	ACSCTG-UNV2 ; OUT-P
Serial No.	NA
Band of Operation	303 – 433.92MHz

The EUT listed above was used throughout the test series.

3. Power Input

The EUT was powered by 3VDC from a coin-cell battery.

4. Grounding

The EUT was not connected to ground.

5. Support Equipment

No support equipment was submitted with the EUT.

6. Interconnect Leads

No interconnect leads were used during the tests.

7. Modifications Made to the EUT

No modifications were made to the EUT during the testing.

8. Modes of Operation

Mode	Description
Continuous Tx	The EUT was powered on and set to transmit at one of the following protocols/frequencies: - 303MHz - 310MHz - 315MHz – Intellicode - 315MHz – Intellicode 2 - 315MHz – Chamberlain Purple - 315MHz – Marantec - 318MHz - 372.5MHz – Wayne Dalton - 372.5MHz – Ryobi - 390MHz – Intellicode - 390MHz – Intellicode 2 - 390MHz – Chamberlain Red - 390MHz – Chamberlain Yellow - 390MHz – Chamberlain Green - 433.92MHz – Rolling Code
Pulsed Tx	The EUT was powered on and set to transmit a transmission sequence.

9. Test Specifications

The tests were performed to selected portions of, and in accordance with the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.231 and Innovation, Science, and Economic Development Canada, RSS-210 test specifications.

- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 15, Subpart C
- ANSI C63.4-2014, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz"
- ANSI C63.10-2013, "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"
- RSS-210 Issue 10, December 2019, "License-Exempt Radio Apparatus: Category I Equipment"
- RSS-Gen Issue 5, March 2019, Amendment 1, Innovation, Science, and Economic Development Canada, "Spectrum Management and Telecommunications, Radio Standards Specification, General Requirements for Compliance of Radio Apparatus"

10. Test Plan

The 41654_U2_FCC_Test_Plan_20210107 (01/07/2021) test plan was provided by Genie and was referenced during the testing.

11. Deviation, Additions to, or Exclusions from Test Specifications

There were no deviations, additions to, or exclusions from the test specifications during this test series.

12. Laboratory Conditions

Ambient Parameters	Value
Temperature	21°C
Relative Humidity	18%
Atmospheric Pressure	1013.4mb

13. Summary

The following EMC tests were performed and the results are shown below:

Test Description	Requirements	Test Methods	Results
Periodic Operation Measurements	FCC 15C ISED RSS-210	ANSI C63.10:2014	Conforms
Duty Cycle Factor Measurements	FCC 15C ISED RSS-210	ANSI C63.10:2014	Conforms
Spurious Radiated Emissions	FCC 15C ISED RSS-210	ANSI C63.10:2014	Conforms
Occupied Bandwidth Measurements	FCC 15C ISED RSS-210	ANSI C63.10:2014	Conforms

14. Sample Calculations

For Powerline Conducted Emissions:

The resultant voltage level (VL) is a summation in decibels (dB) of the receiver meter reading (MTR) and the cable loss factor (CF).

$$\text{Formula 1: VL (dBuV)} = \text{MTR (dBuV)} + \text{CF (dB)}.$$

For Radiated Emissions:

The resultant field strength (FS) is a summation in decibels (dB) of the receiver meter reading (MTR), the antenna correction factor (AF), and the cable loss factor (CF). If an external preamplifier is used, the total is reduced by its gain (-PA). If a distance correction (DC) is required, it is added to the total.

$$\text{Formula 1: FS (dBuV/m)} = \text{MTR (dBuV)} + \text{AF (dB/m)} + \text{CF (dB)} + (-\text{PA (dB)}) + \text{DC (dB)}$$

To convert the Field Strength dBuV/m term to uV/m, the dBuV/m is first divided by 20. The Base 10 AntiLog is taken of this quotient. The result is the Field Strength value in uV/m terms.

$$\text{Formula 2: FS (uV/m)} = \text{AntiLog}[(\text{FS (dBuV/m)})/20]$$

15. Statement of Conformity

The Genie Universal 2 Button Transmitter, Model No. U2, Serial No. NA, did fully conform to the selected requirements of FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.231 and Innovation, Science, and Economic Development Canada, RSS-210.

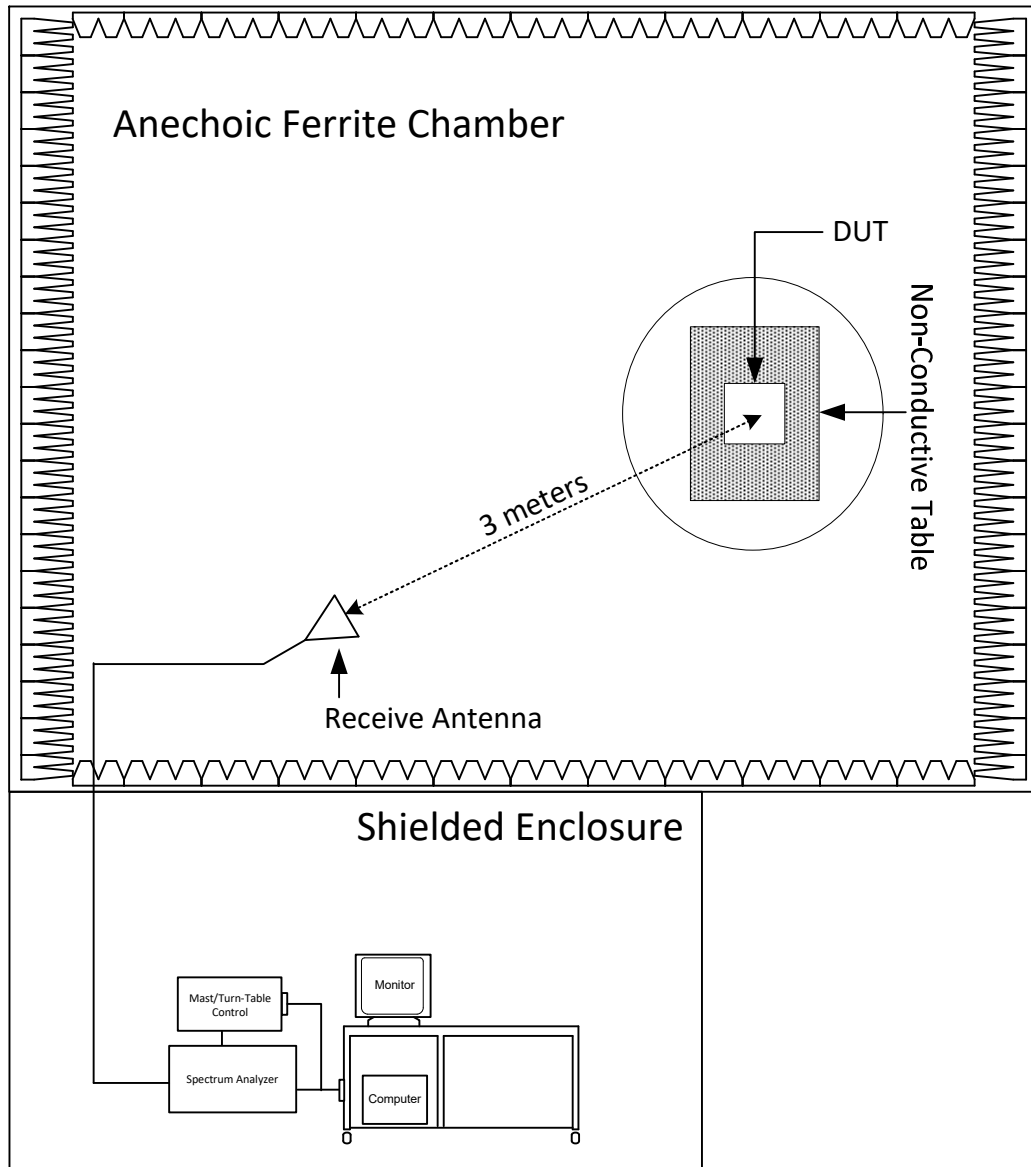
16. Certification

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.231 and Innovation, Science, and Economic Development Canada, RSS-210 test specifications. The data presented in this test report pertains to the EUT on the test date specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification.

17. Photographs of EUT



18. Block Diagram of Test Setup



Radiated Measurements Test Setup

19. Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
CDZ3	LAB WORKSTATION	ELITE	LWS-10		WINDOWS 10	CNR	
NTA4	BILOG ANTENNA	TESEQ	6112D	46660	20-2000GHZ	10/5/2020	10/5/2021
NWQ0	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS LINDGREN	3117	66657	1GHZ-18GHZ	5/13/2020	5/13/2022
RBG0	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101533	10HZ-44GHZ	3/2/2021	3/2/2022
T2DS	20DB, 25W ATTENUATOR	WEINSCHEL	46-20-34	BS0916	DC-18GHZ	4/2/2020	4/2/2022
WKA1	SOFTWARE, UNIVERSAL RCV EMI	ELITE	UNIV_RCV_EMI	1	---	I/O	

N/A: Not Applicable

I/O: Initial Only

CNR: Calibration Not Required

NOTE 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

20. Periodic Operation Measurements

Test Information	
Manufacturer	Genie
Product	Universal 2 Button Transmitter
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx

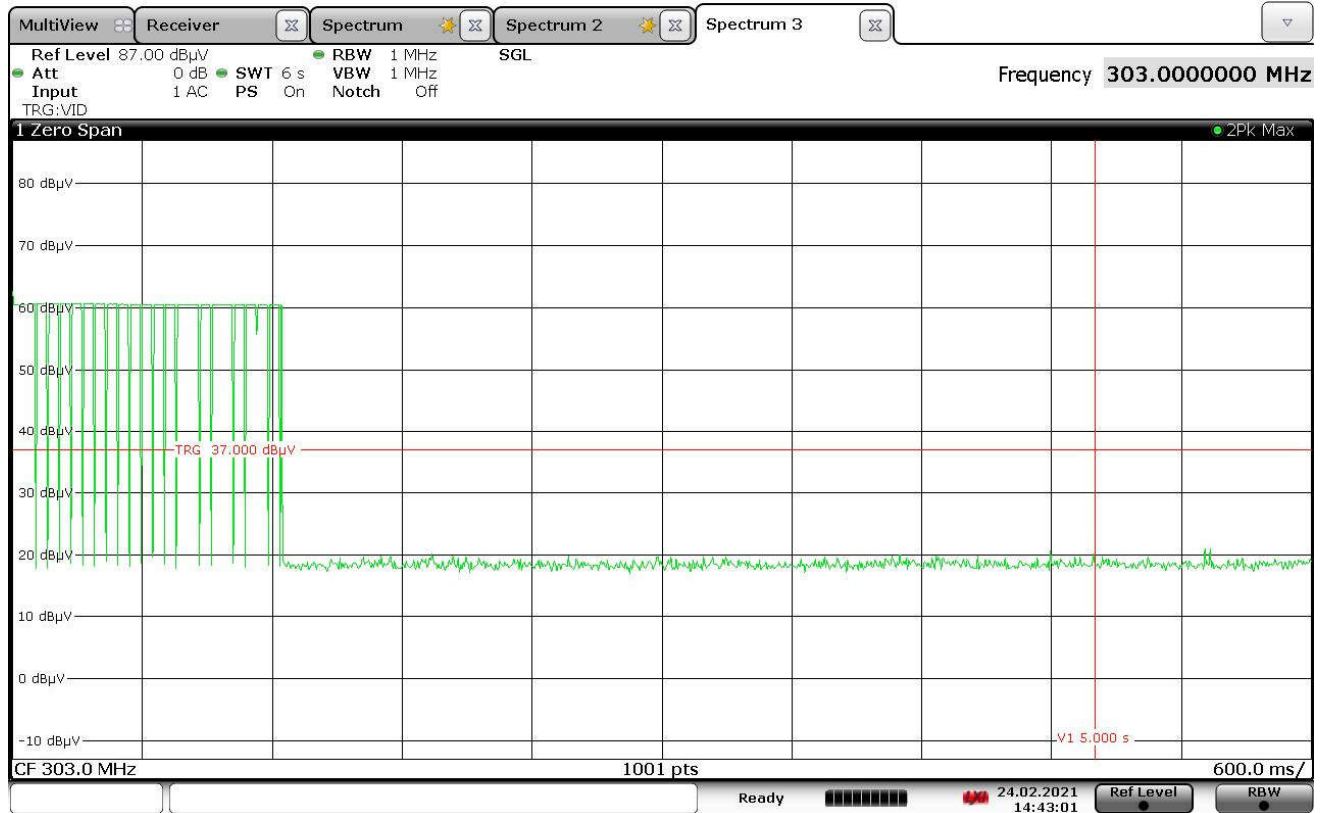
Test Setup Details	
Setup Format	Tabletop
Type of Test Site	Semi-Anechoic Chamber
Note	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3

Requirements
A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. A transmitter activated automatically shall cease transmission within 5 seconds after activation. Transmission of set-up information for security systems may exceed said transmission duration limits, provided such transmissions are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data. Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour. Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

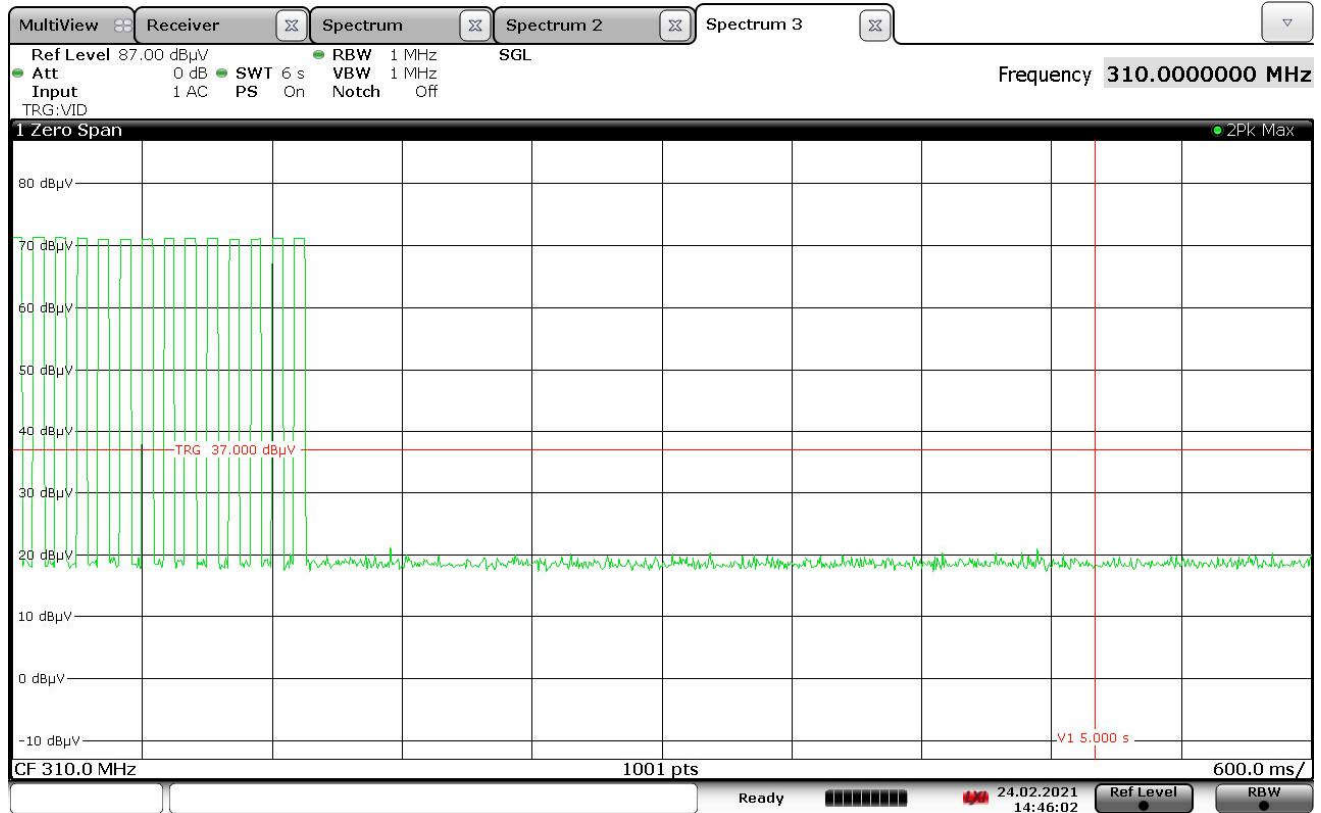
Procedures
The spectrum analyzer was setup to display the time domain trace. The EUT was set to transmit normally. The spectrum analyzer was used to record the amount of time that the EUT remained active following activation.

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	303MHz
Notes	None



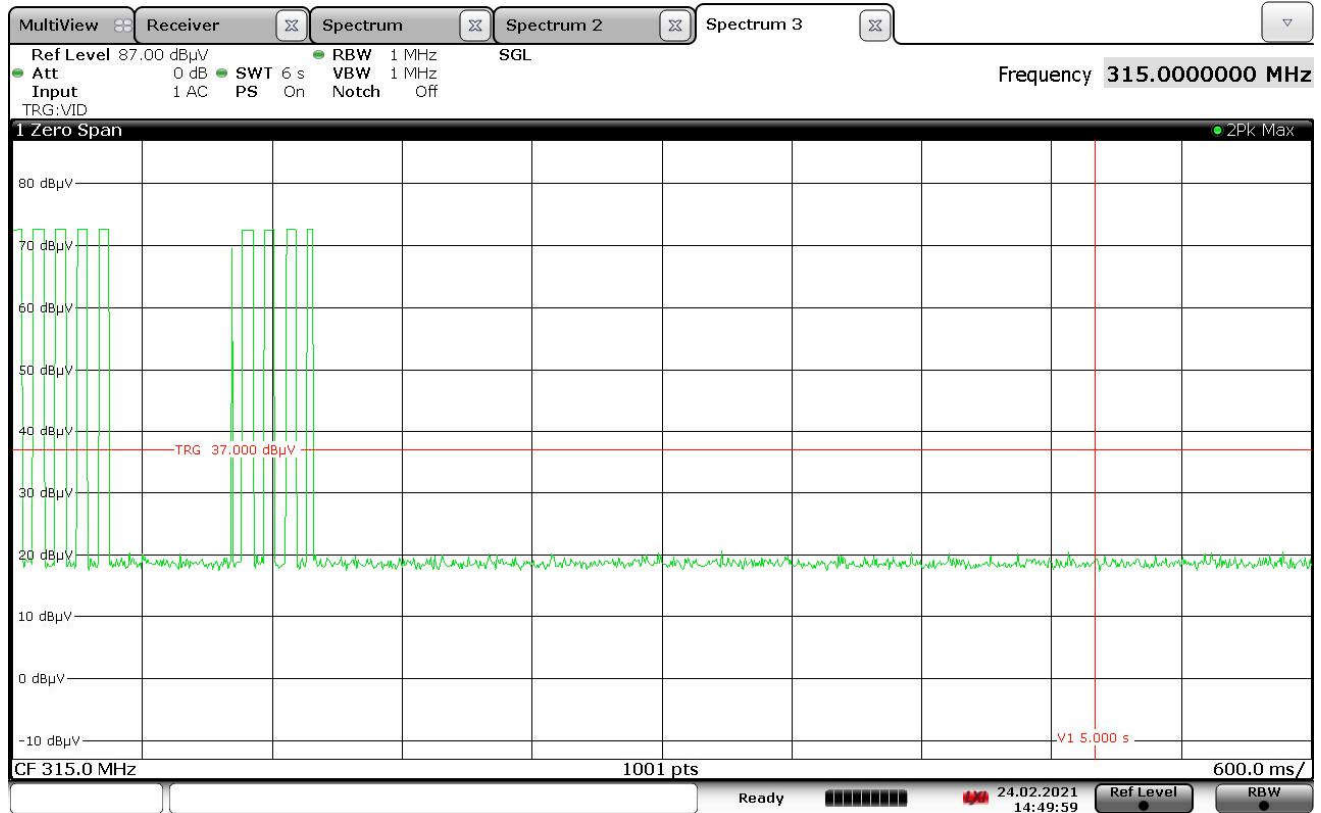
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Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	310MHz
Notes	None



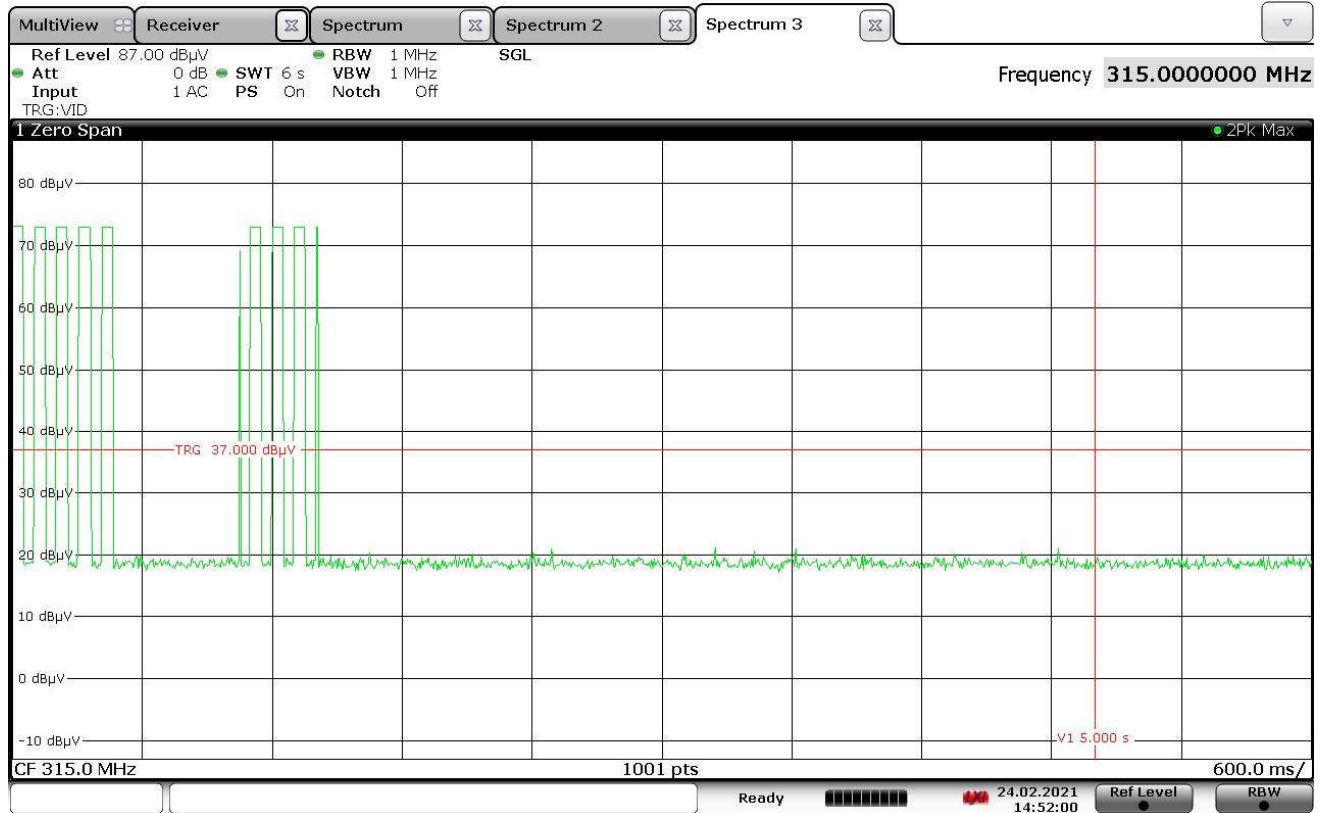
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Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	315MHz
Notes	Intellicode



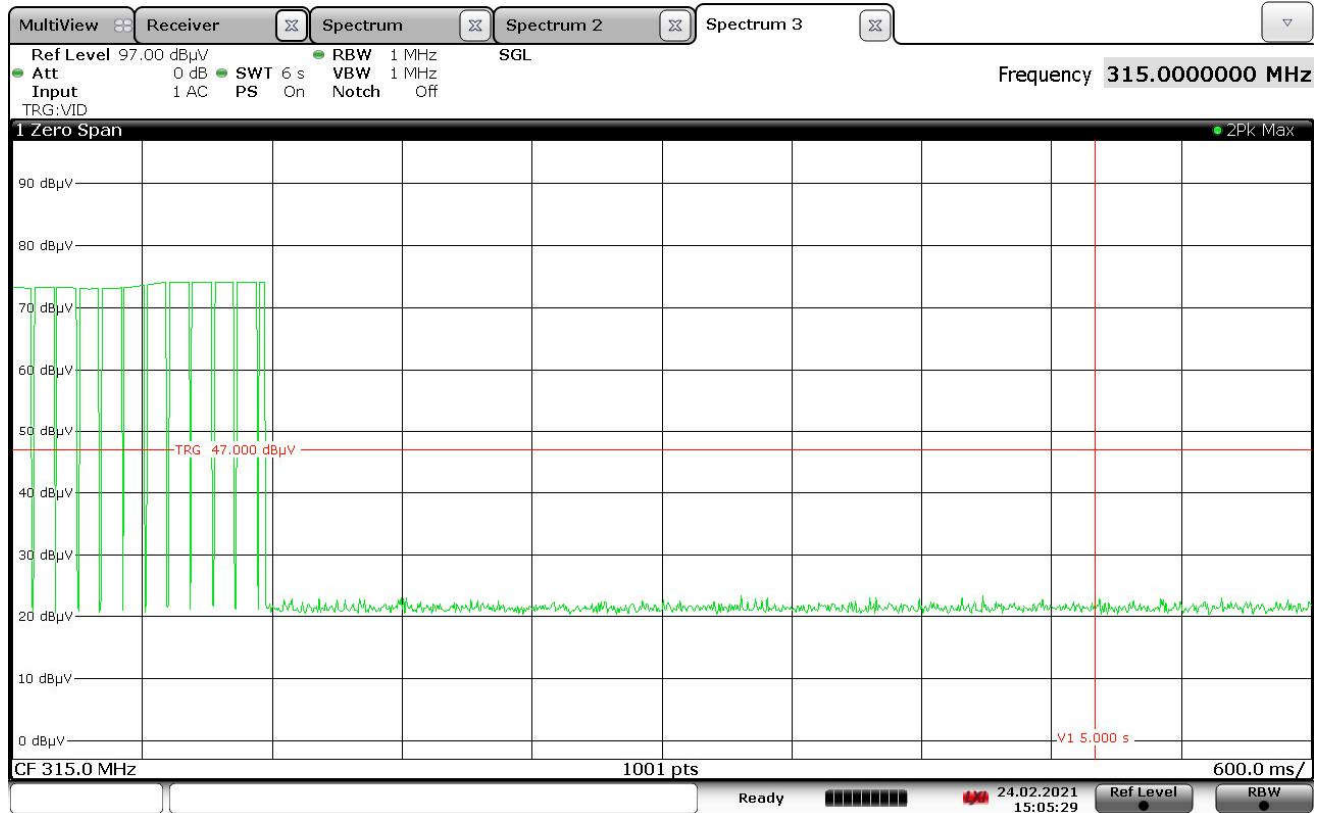
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Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	315MHz
Notes	Intellicode 2



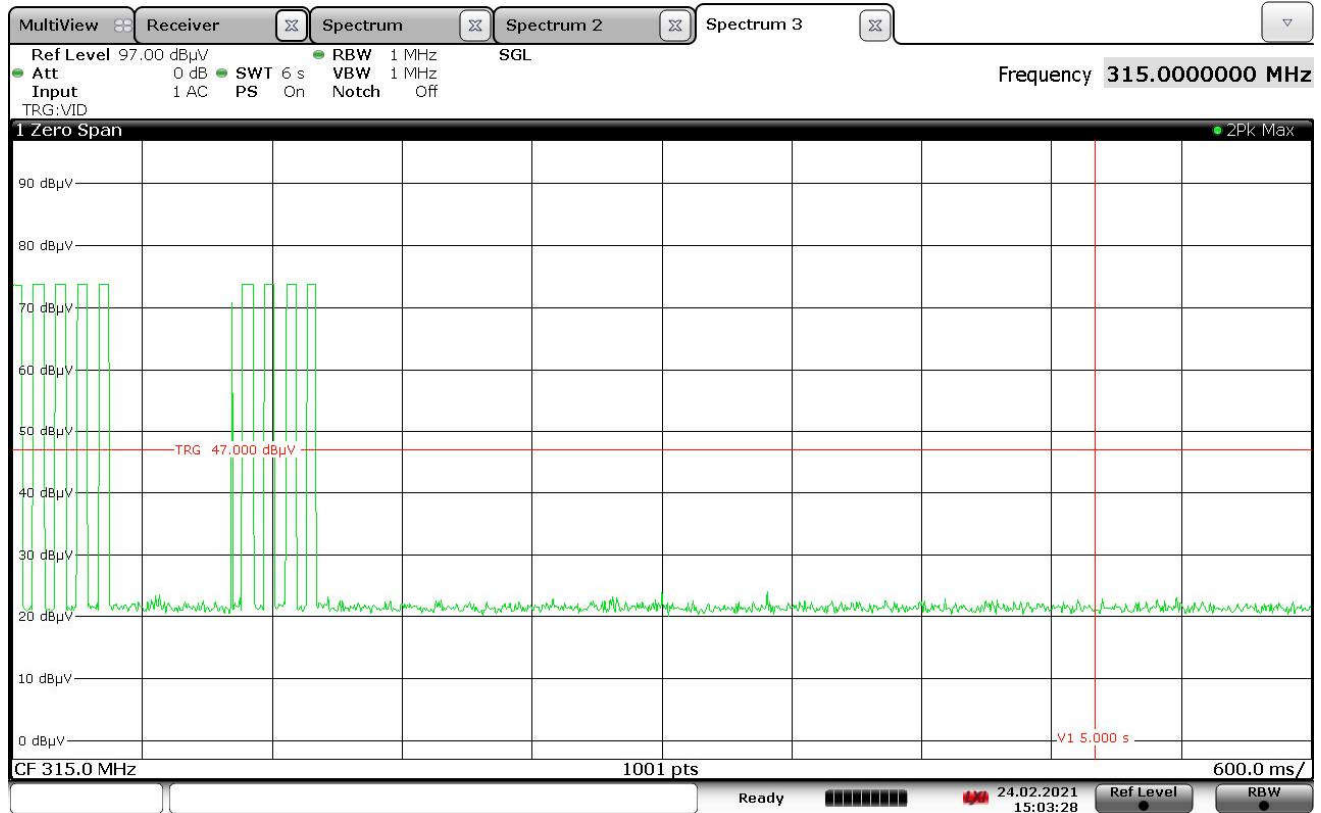
14:52:00 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	315MHz
Notes	Marentec



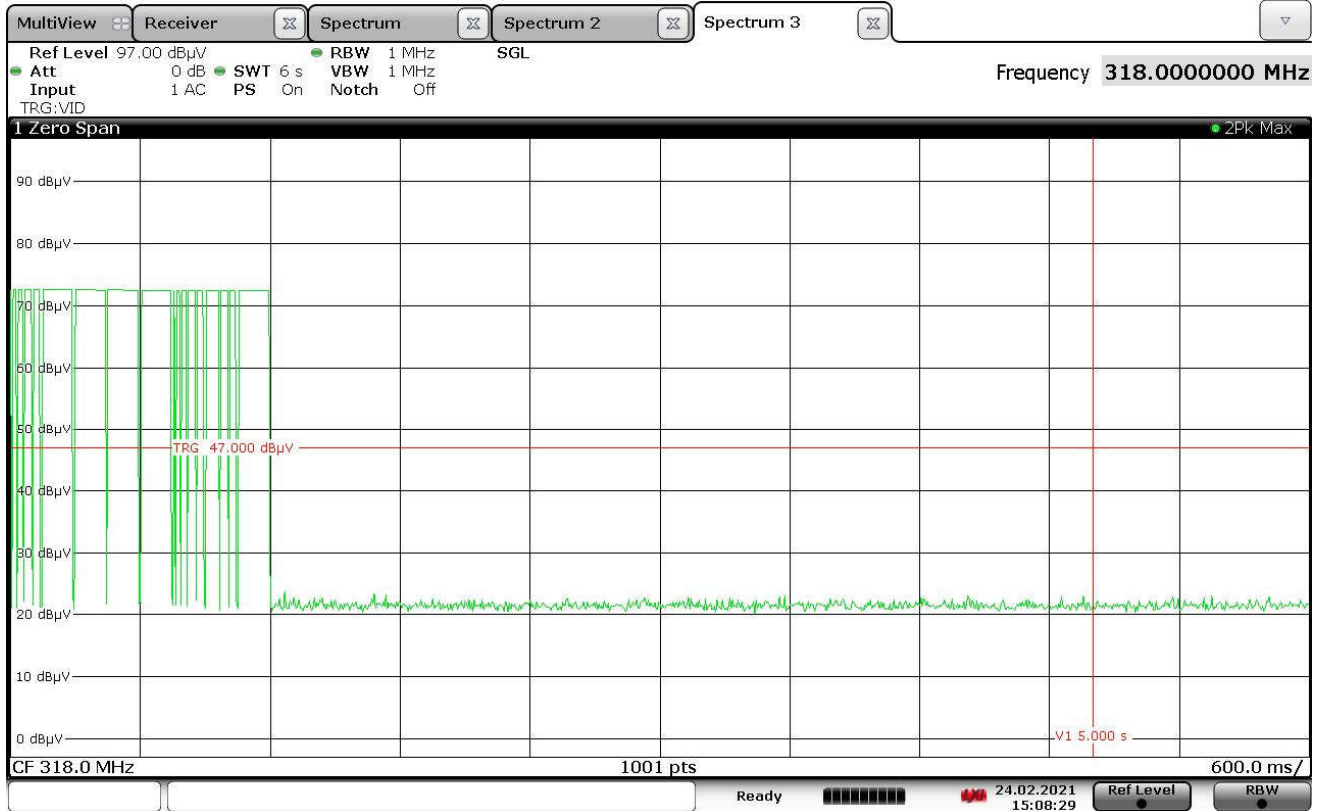
15:05:29 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	315MHz
Notes	Chamberlain Purple



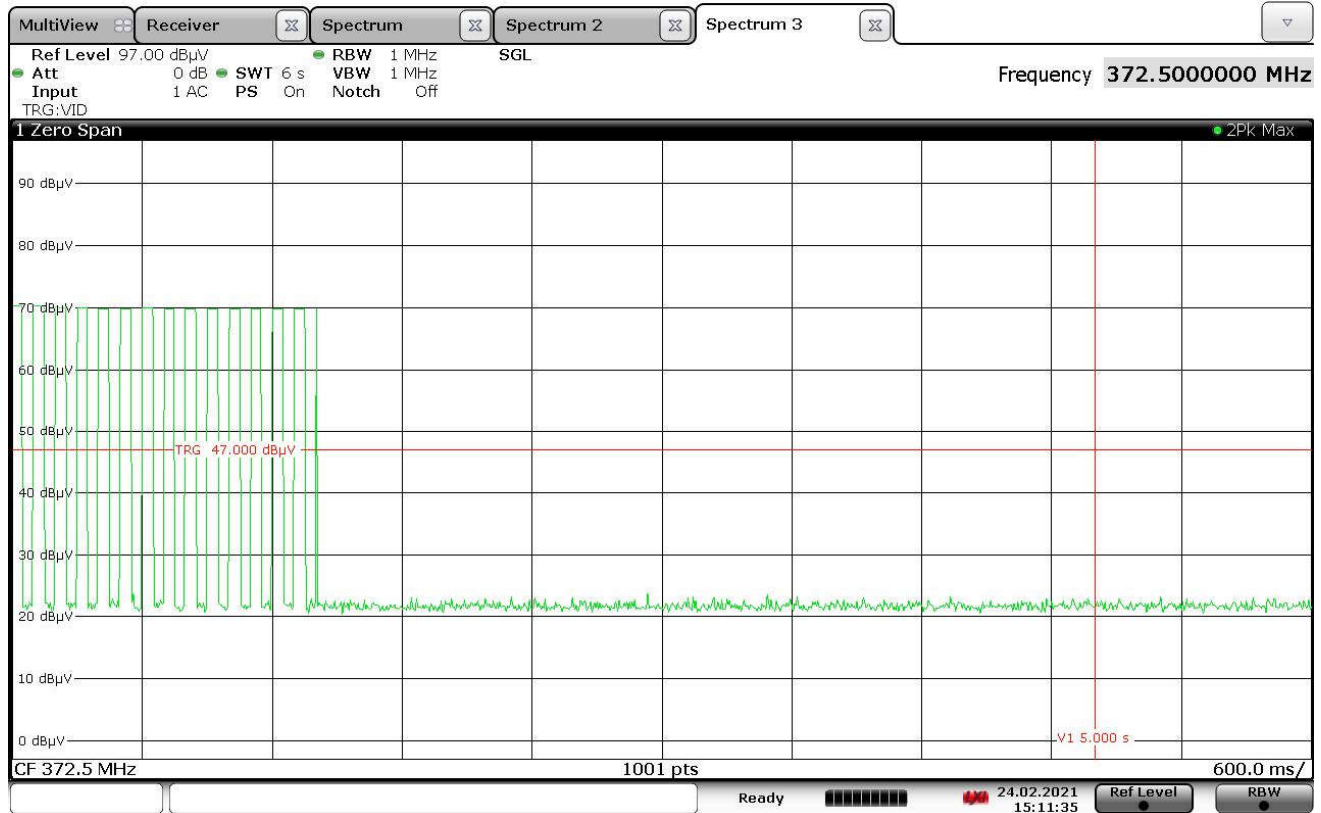
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Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	318MHz
Notes	None



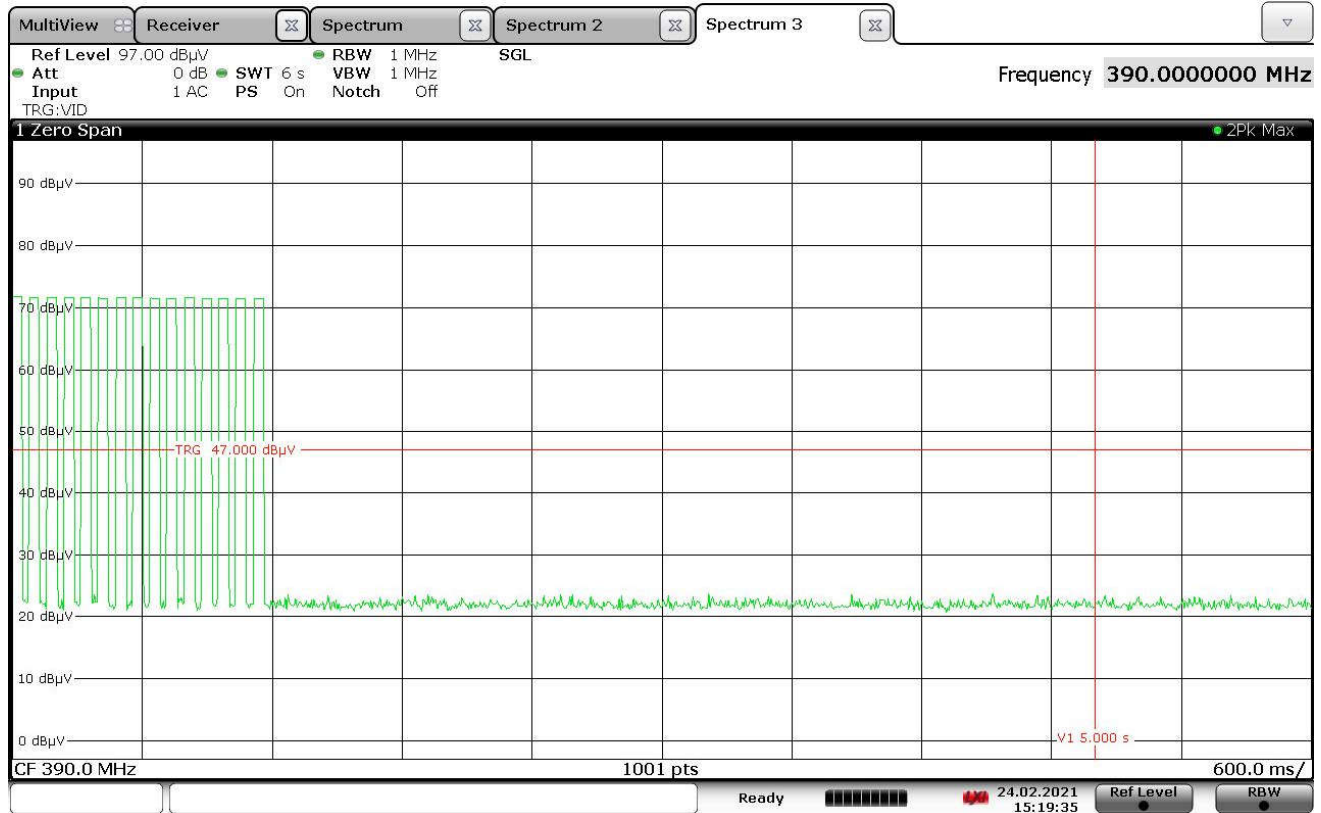
15:08:30 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	372.5MHz
Notes	Wayne Dalton & Ryobi



15:11:36 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	390MHz
Notes	Chamberlain Green



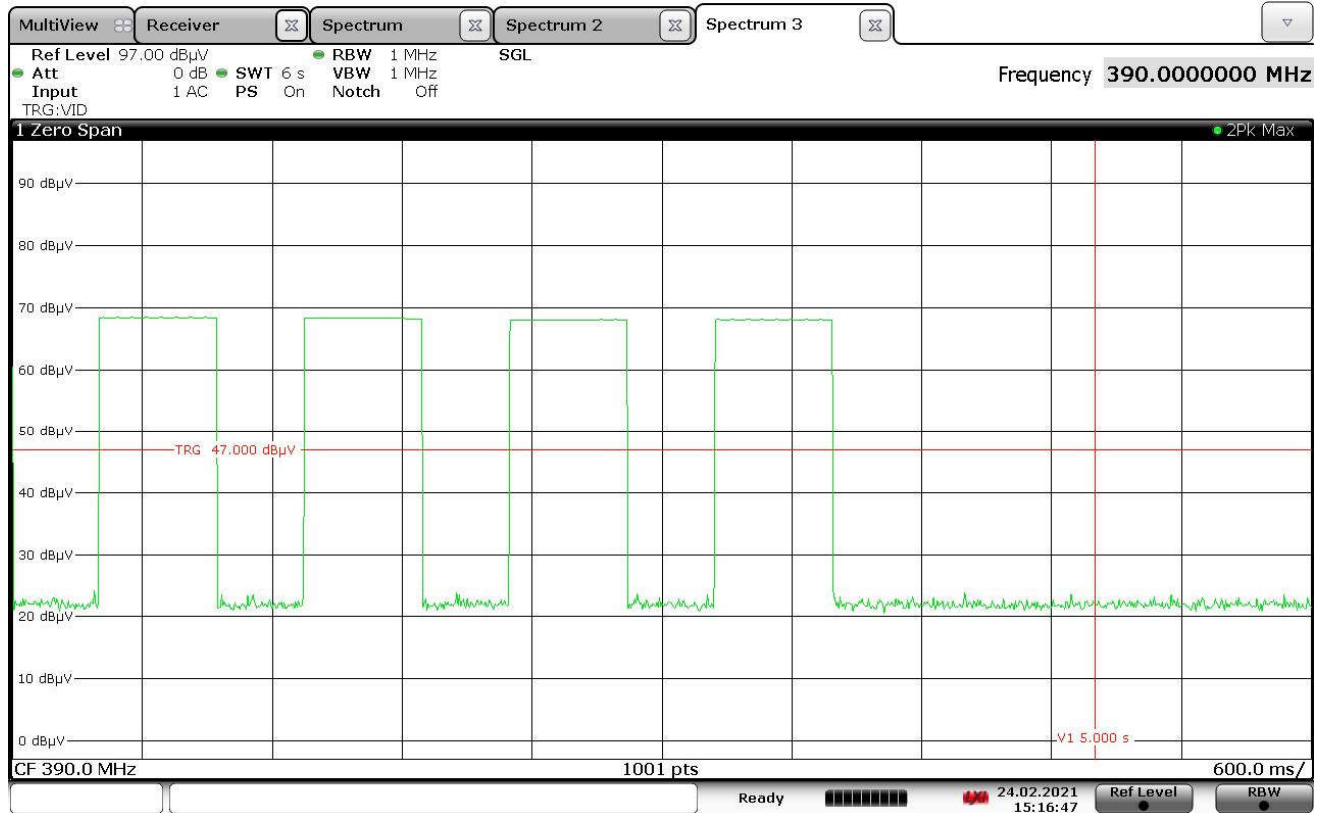
15:19:35 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	390MHz
Notes	Chamberlain Red



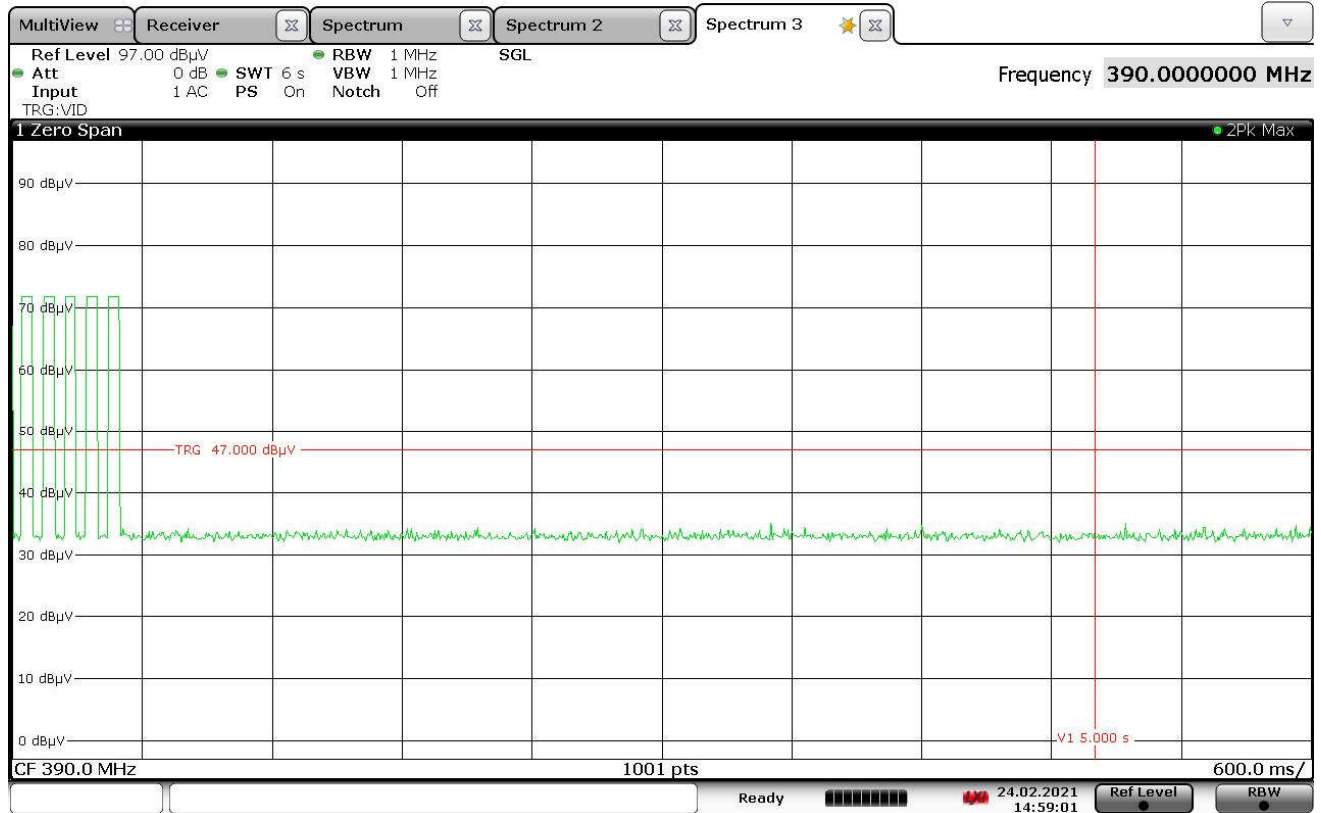
15:15:42 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	390MHz
Notes	Chamberlain Yellow



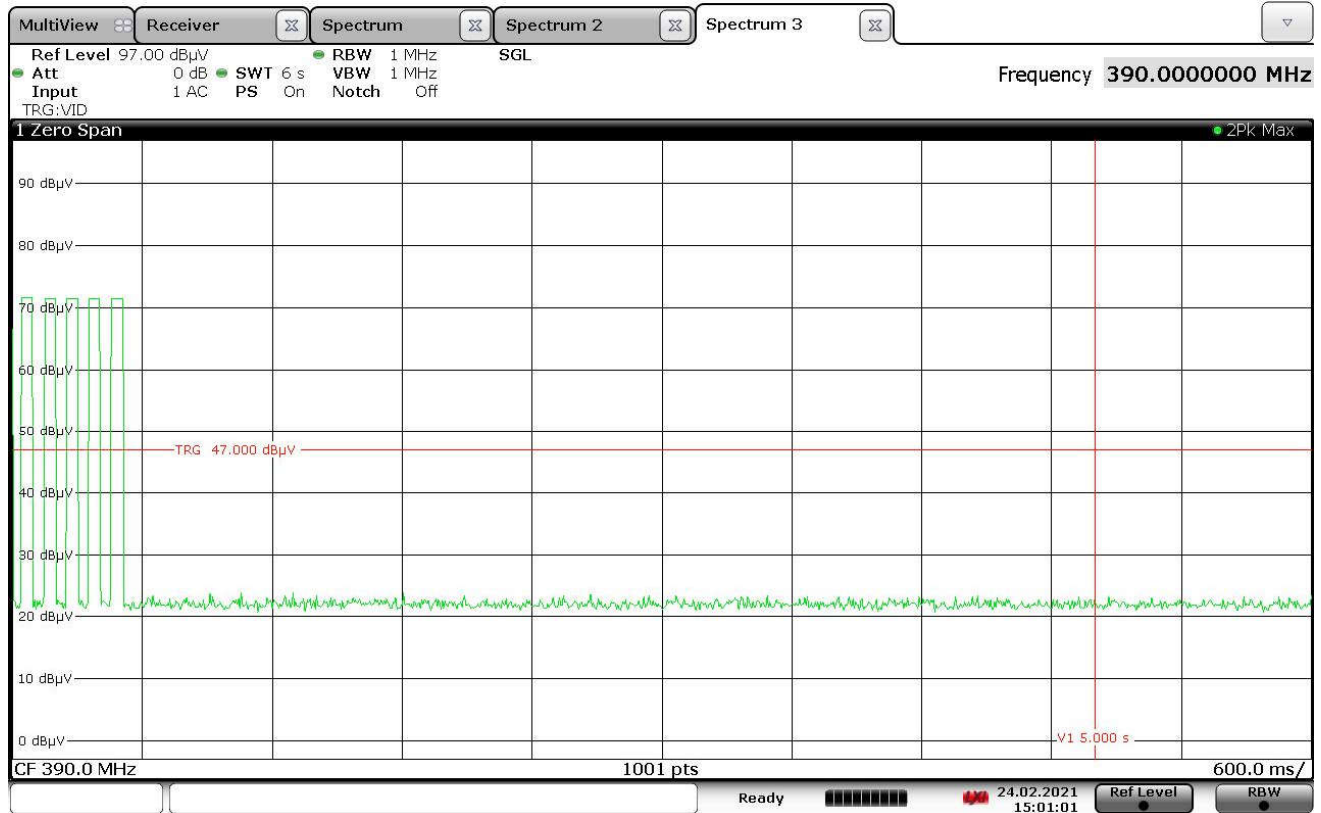
15:16:48 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	390MHz
Notes	Intellicode



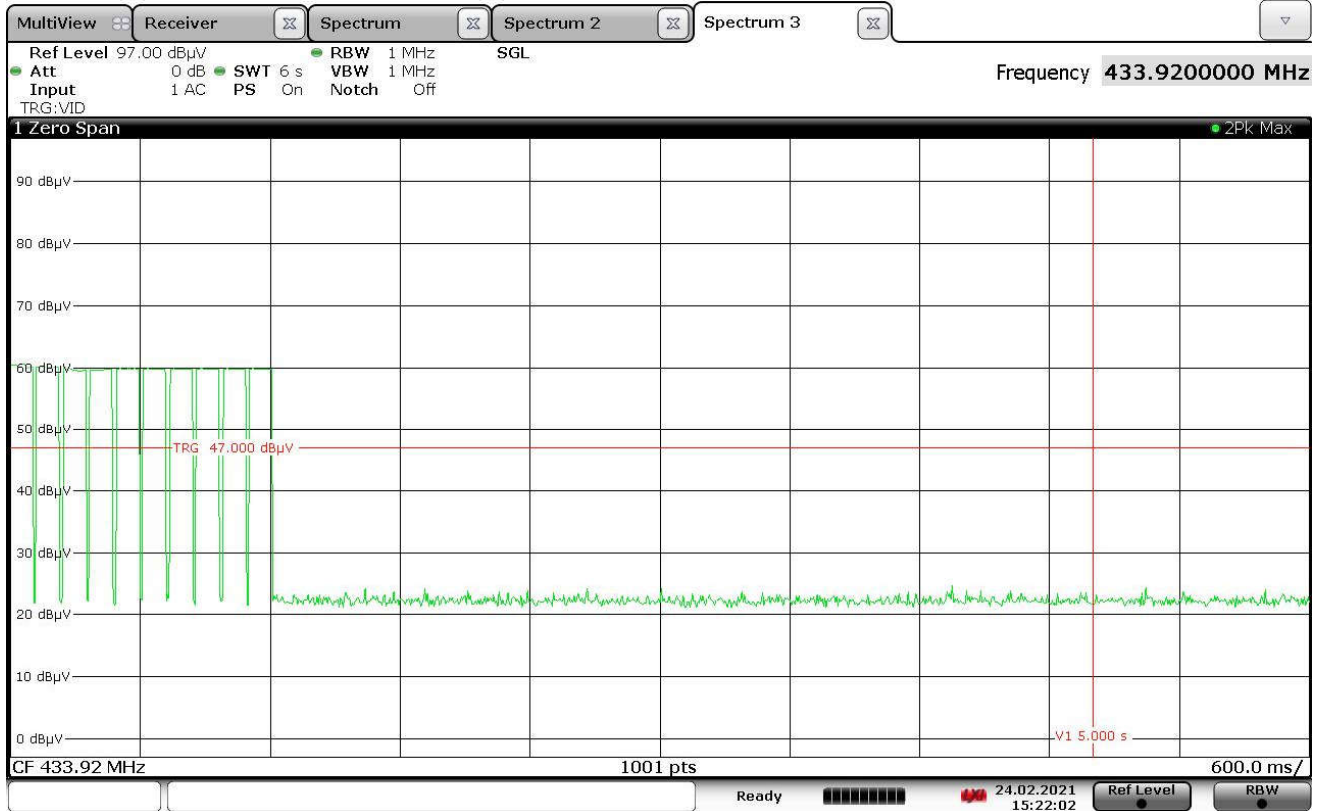
14:59:01 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	390MHz
Notes	Intellicode 2



15:01:02 24.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx
Carrier Frequency	433.92MHz
Notes	None



15:22:03 24.02.2021

21. Duty Cycle Factor Measurements

Test Information	
Manufacturer	Genie
Product	Universal 2 Button Transmitter
Model No.	U2
Serial No.	NA
Mode	Pulsed Tx

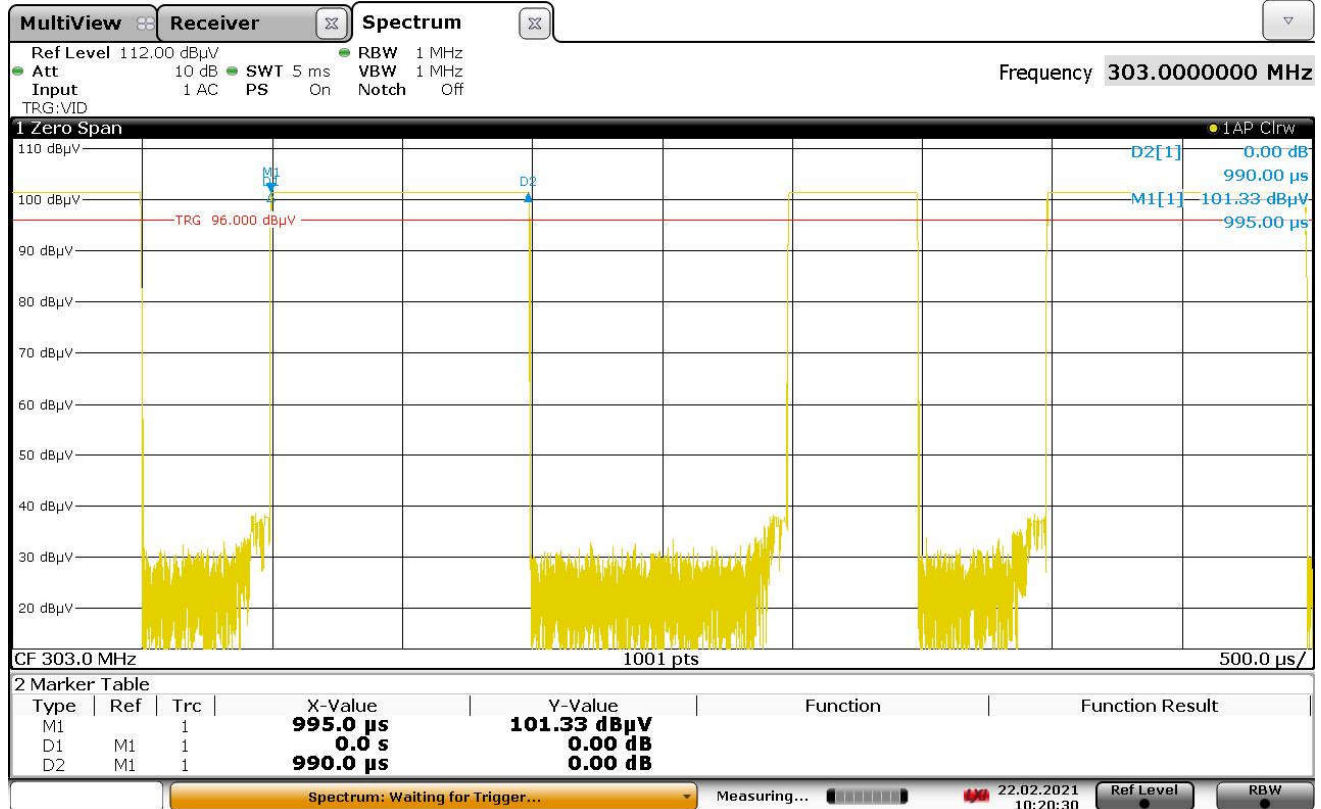
Test Setup Details	
Setup Format	Tabletop
Type of Test Site	Semi-Anechoic Chamber
Notes	None

Procedures
The duty cycle factor is used to convert peak detected readings to average readings. This factor is computed from the time domain trace of the pulse modulation signal. The following procedure was used to measure a representative sample: Since this EUT utilizes a rolling code modulation, the duty is calculated based on the worst case. The following procedure was used to measure a representative sample: 1) With the transmitter set up to transmit for maximum pulse density, the time domain trace is displayed on the spectrum analyzer. 2) The pulse width is measured, and a plot of this measurement is recorded. 3) Next the number of pulses in the word period is measured and a plot is recorded. 4) Finally, the length of the word period is measured, and a third plot is recorded. If the word period exceeds 100msec, the word period is limited to 100msec. 5) The pulse width and number of pulses for the word period are used to compute the on-time. The duty cycle is then computed as the (on-time/ word period). 6) The duty cycle factor is computed from the duty cycle.

Frequency	Code Format	Duty Cycle (Calculated)
303MHz	Fixed Learn Code	-7.32dB
310MHz	Rolling Code	-12.98dB
315MHz	Intellicode	-13.22dB
315MHz	Intellicode 2	-12.70dB
315MHz	Chamberlain Purple	-8.89dB
315MHz	Marantec	-11.75dB
318MHz	Mega Code	-15.39dB
372.5MHz	Wayne Dalton	-12.39dB
372.5MHz	Ryobi	-13.19dB
390MHz	Intellicode	-13.61dB
390MHz	Intellicode 2	-13.23dB
390MHz	Chamberlain Red	-6.005dB
390MHz	Chamberlain Yellow	-6.70dB
390MHz	Chamberlain Green	-9.43dB
433.92MHz	Rolling Code	-7.89dB

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	303MHz
Notes	Wide Pulse = 990µs = 0.99ms

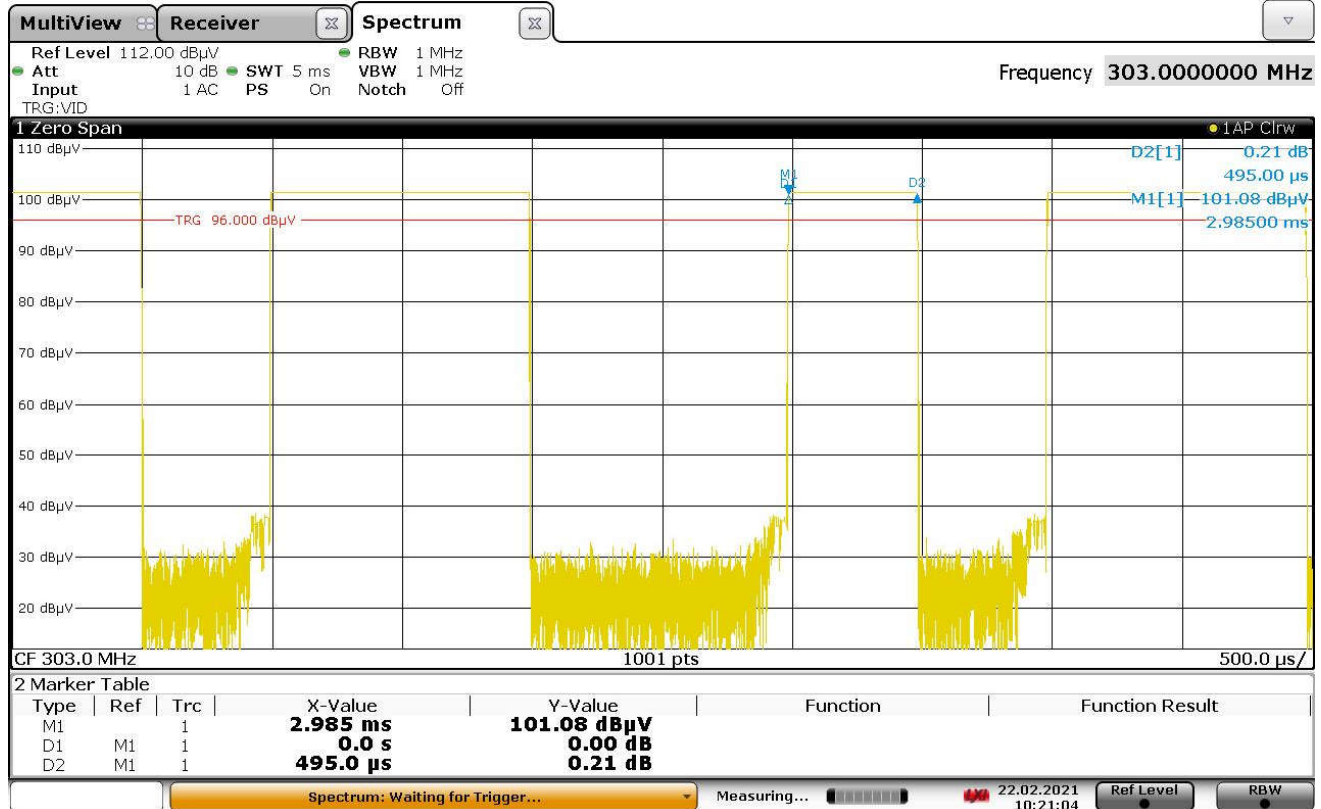
DUTY CYCLE – WIDE PULSE



10:20:31 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	303MHz
Notes	Narrow Pulse = 495µs = 0.495ms

DUTY CYCLE – NARROW PULSE



10:21:04 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	303MHz
Notes	Duty Cycle Calculation: $30 \times 0.99\text{ms} = 29.7\text{ms}$ $27 \times 0.495\text{ms} = 13.365\text{ms}$ $29.7 + 13.365 = 43.065$ $\text{D.C} = 20\log(43.065/100) = -7.32\text{dB}$

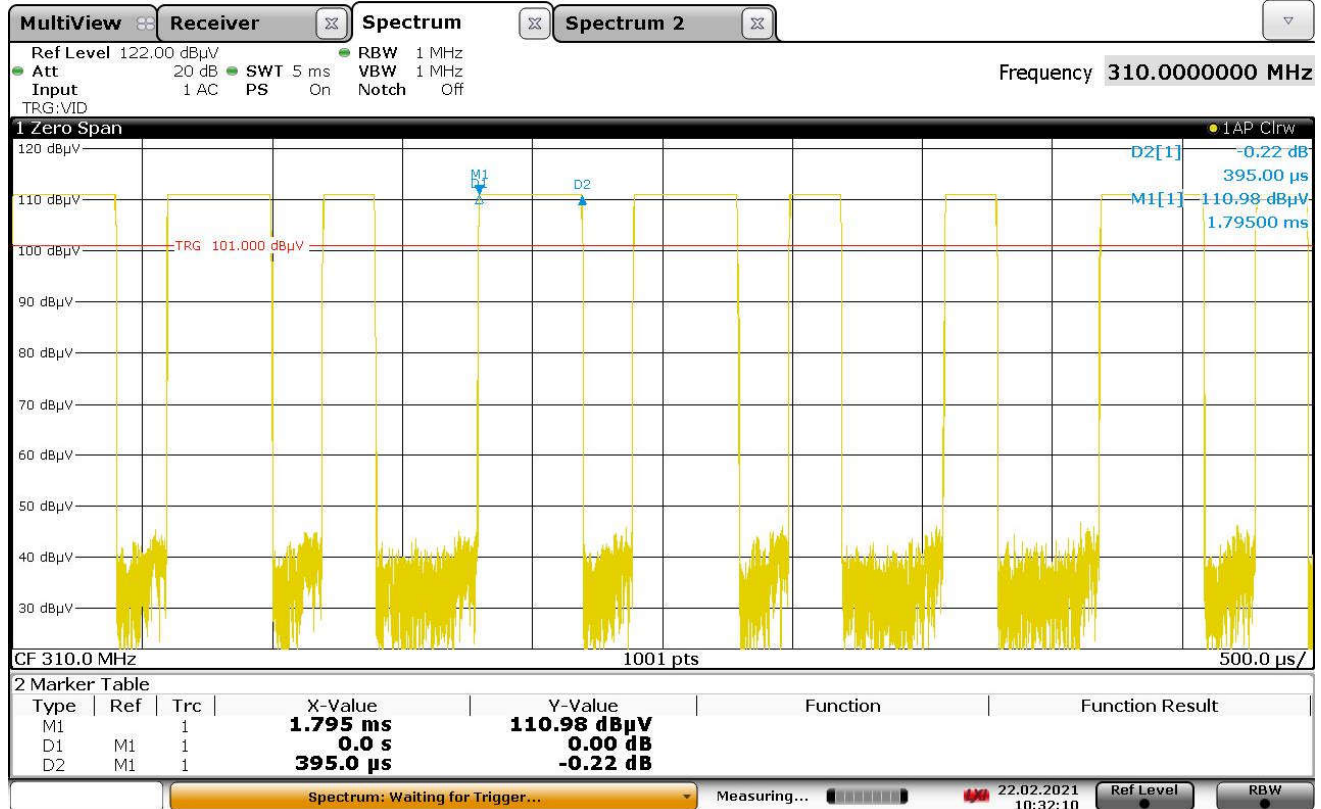
DUTY CYCLE



10:22:10 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	310MHz
Notes	Wide Pulse = 395µs = 0.395ms

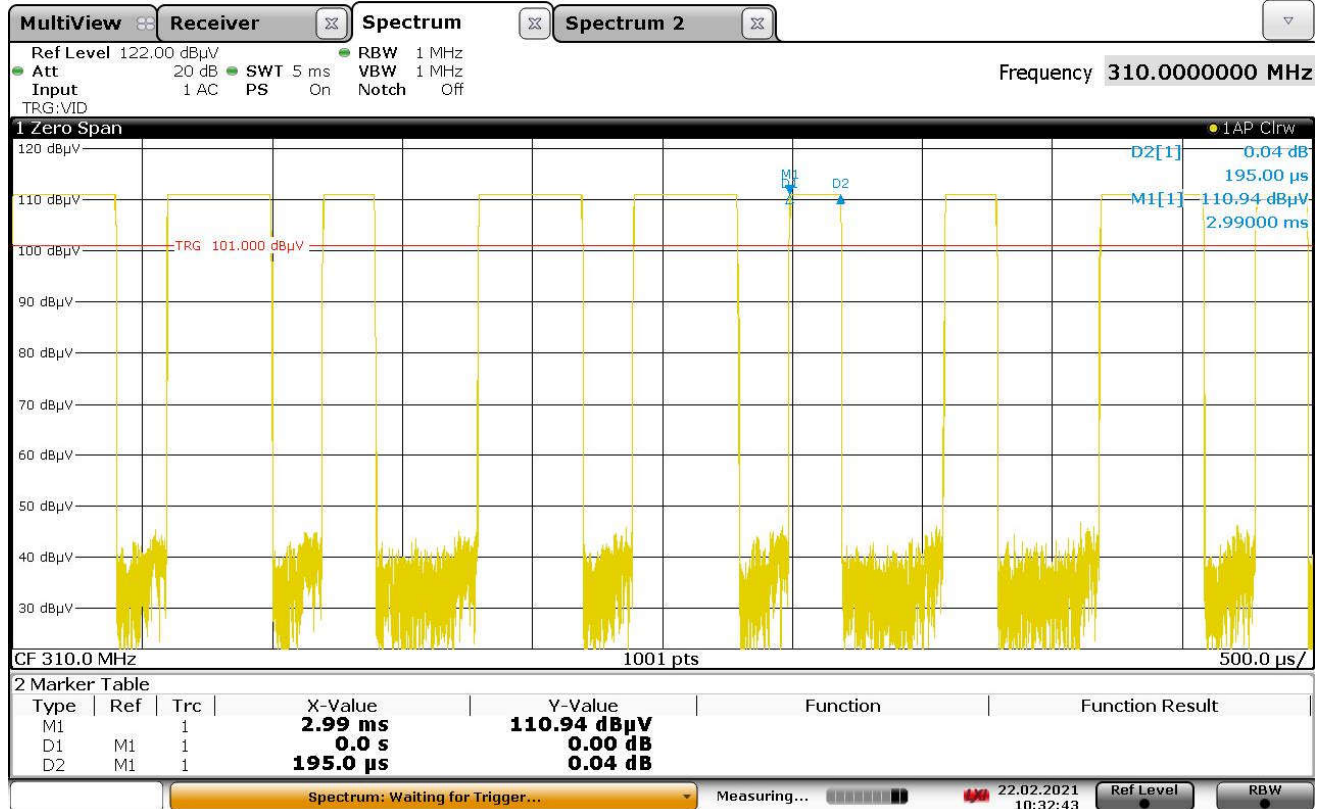
DUTY CYCLE – WIDE PULSE



10:32:11 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	310MHz
Notes	Narrow Pulse = 195µs = 0.195ms

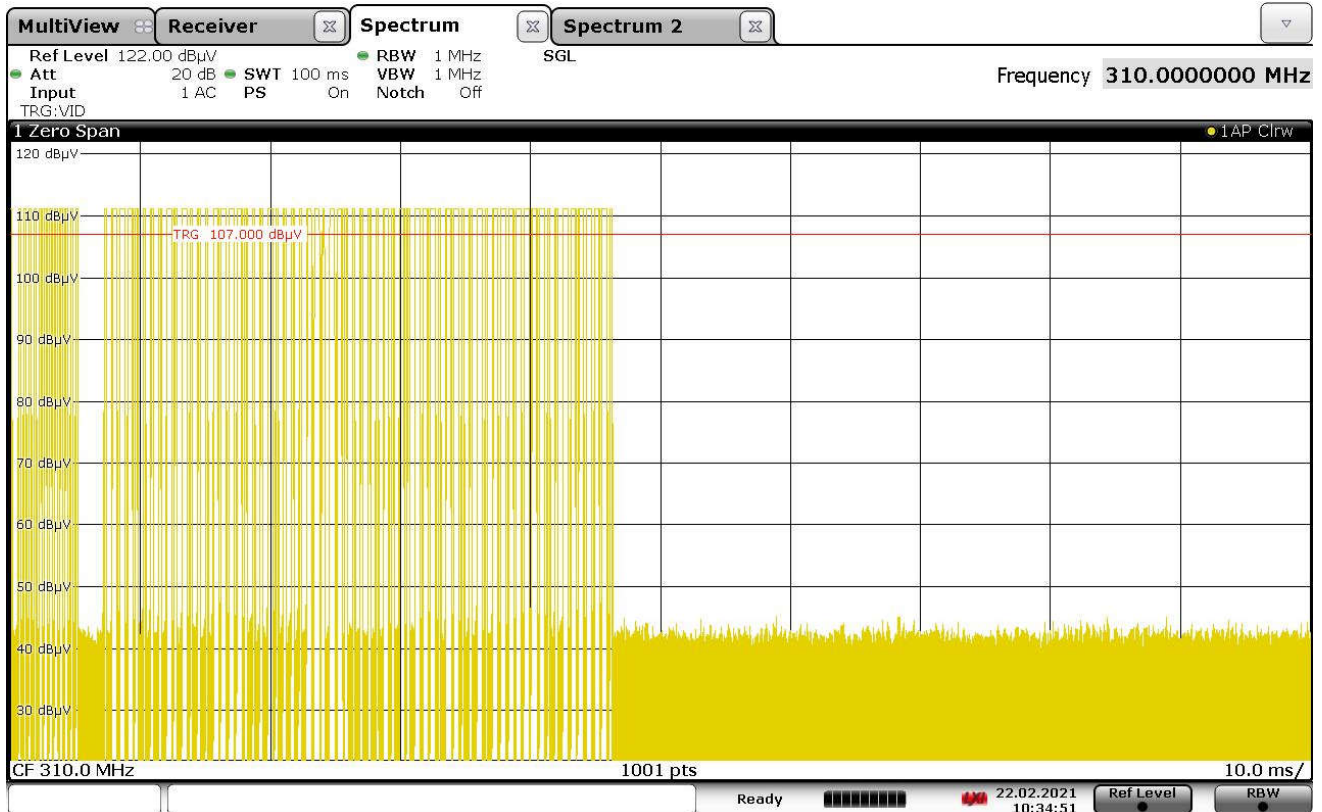
DUTY CYCLE – NARROW PULSE



10:32:43 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	310MHz
Notes	Duty Cycle Calculation: $37 \times 0.395\text{ms} = 14.615\text{ms}$ $40 \times 0.195\text{ms} = 7.8\text{ms}$ $14.615 + 7.8 = 22.415$ D.C = $20\log(22.415/100) = -12.98\text{dB}$

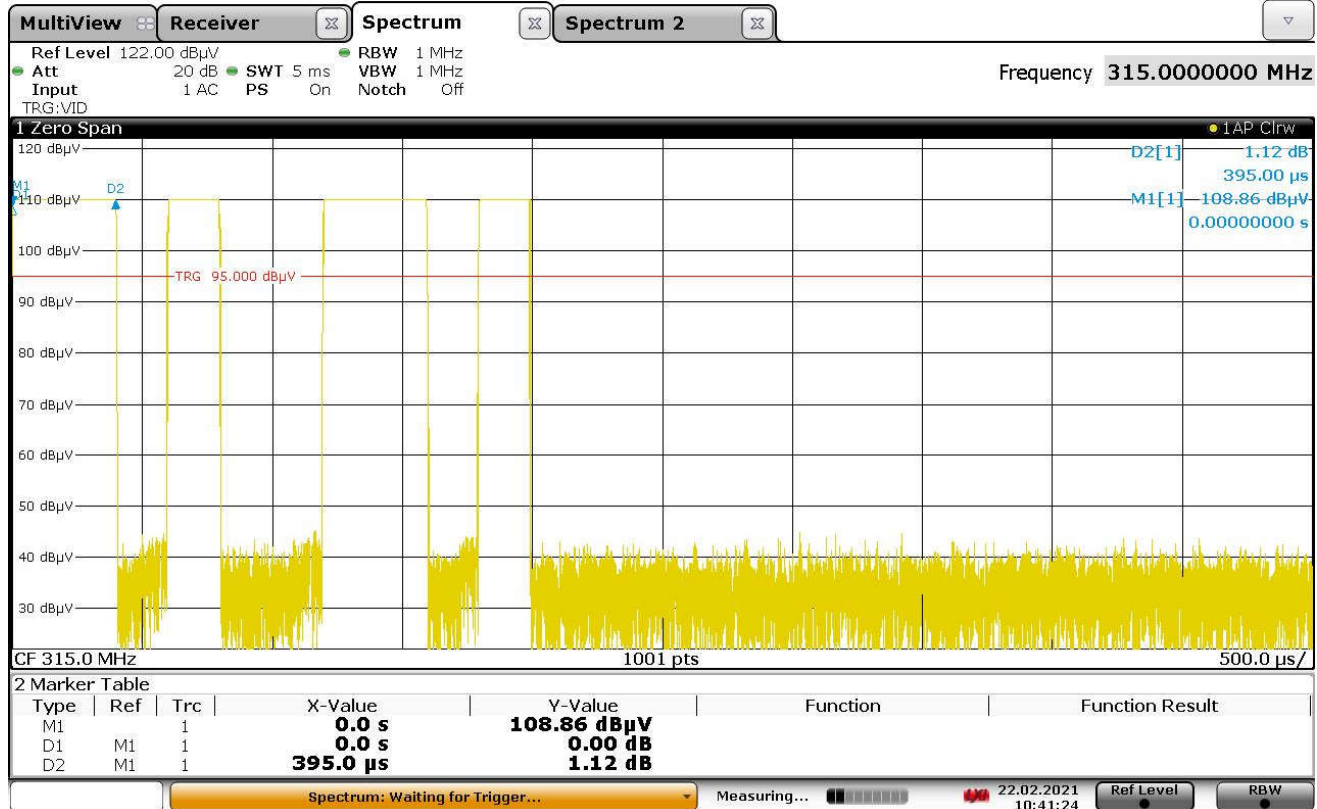
DUTY CYCLE



10:34:52 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Intellicode)
Notes	Wide Pulse = 395µs = 0.395ms

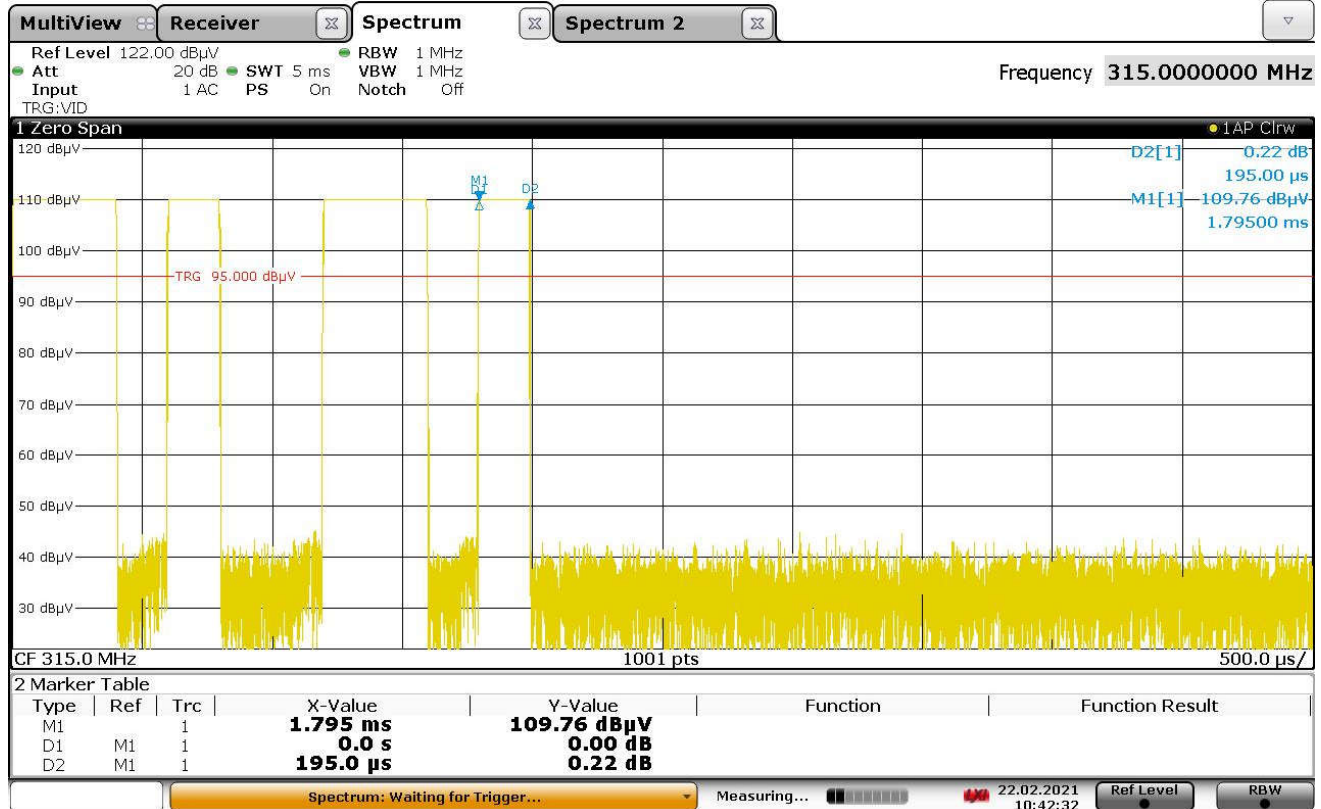
DUTY CYCLE – WIDE PULSE



10:41:24 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Intellicode)
Notes	Narrow Pulse = 195µs = 0.195ms

DUTY CYCLE – NARROW PULSE



10:42:32 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Intellicode)
Notes	Duty Cycle Calculation: $34 \times 0.395\text{ms} = 13.43\text{ms}$ $43 \times 0.195\text{ms} = 8.385\text{ms}$ $13.43 + 8.385 = 21.815$ $\text{D.C} = 20\log(21.815/100) = -13.22\text{dB}$

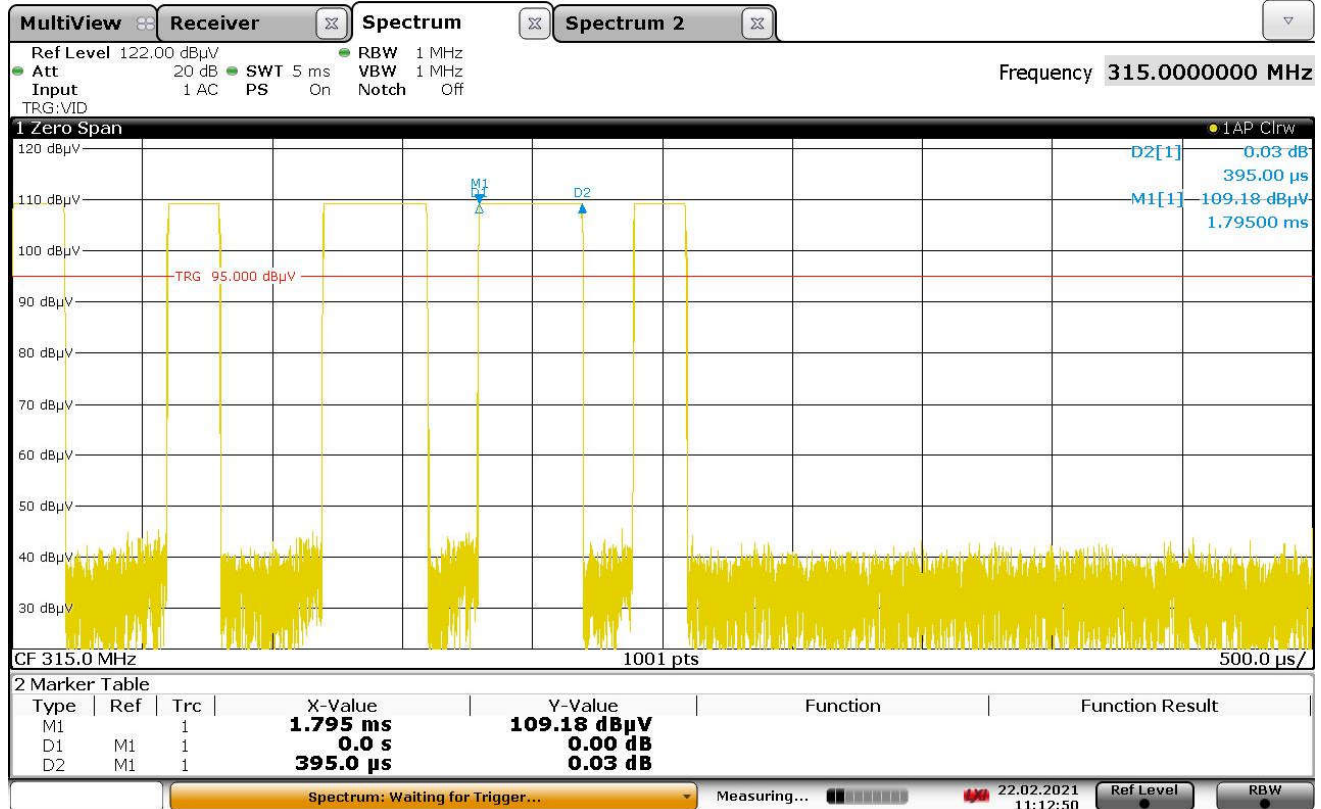
DUTY CYCLE



10:43:28 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Intellicode 2)
Notes	Wide Pulse = 395µs = 0.395ms

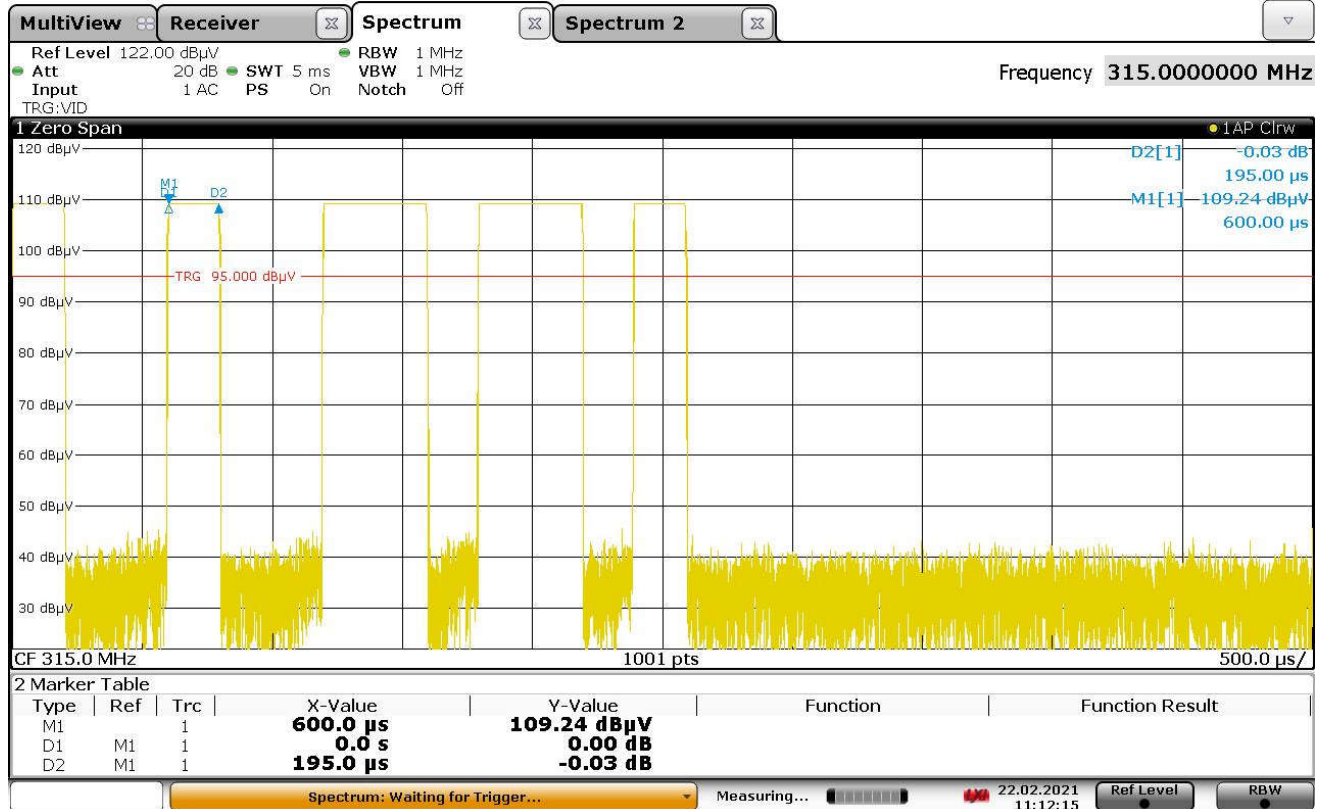
DUTY CYCLE – WIDE PULSE



11:12:51 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Intellicode 2)
Notes	Narrow Pulse = 195µs = 0.195ms

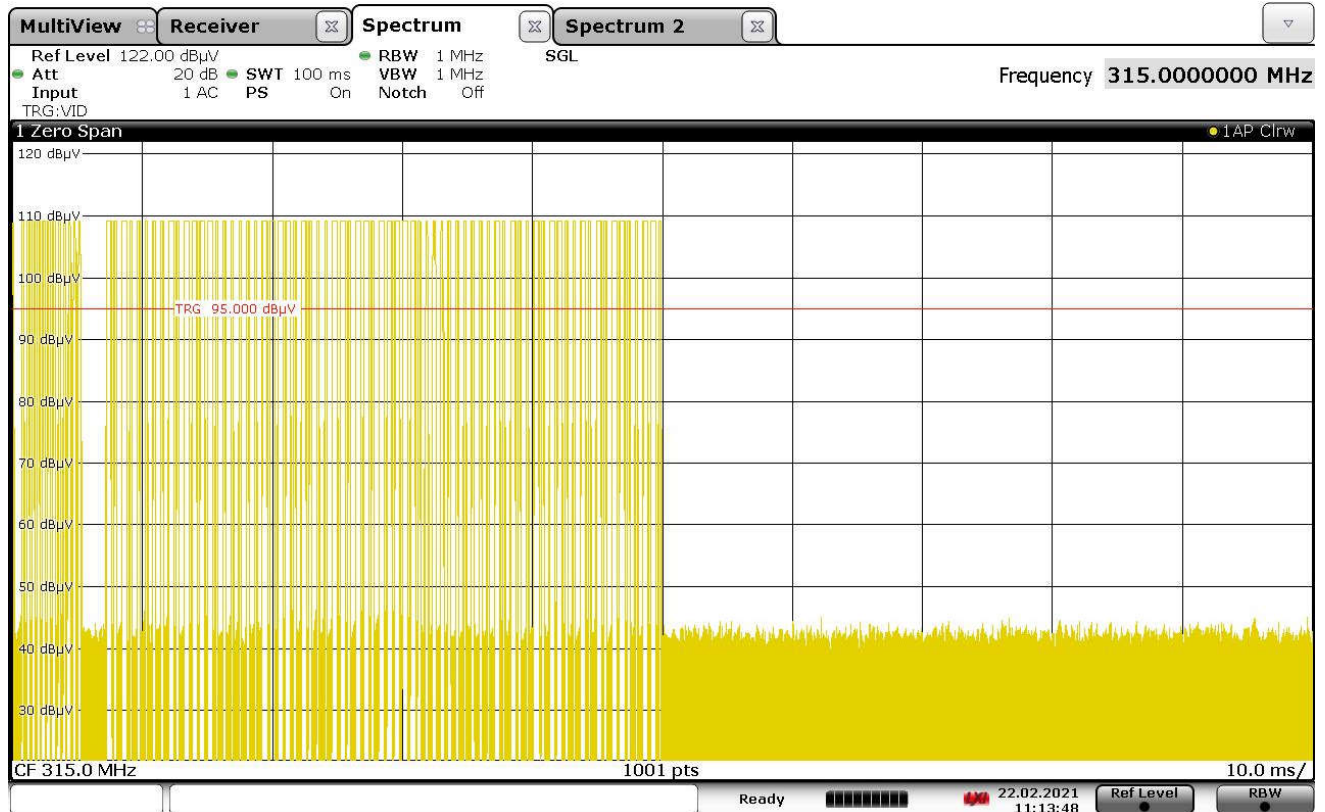
DUTY CYCLE – NARROW PULSE



11:12:15 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Intellicode 2)
Notes	Duty Cycle Calculation: $32 \times 0.395\text{ms} = 12.645\text{ms}$ $54 \times 0.195\text{ms} = 10.53\text{ms}$ $12.64 + 10.53 = 23.17$ $\text{D.C} = 20\log(23.17/100) = -12.7\text{dB}$

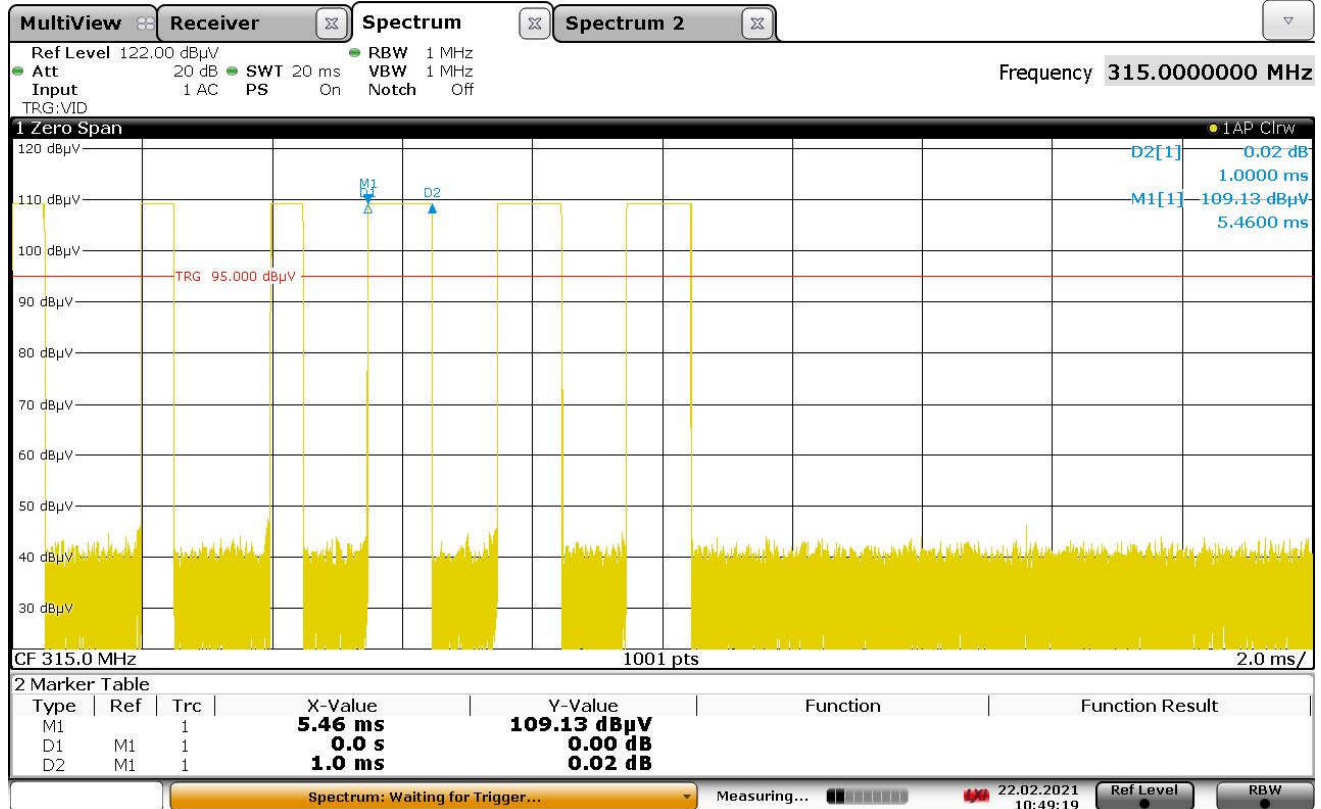
DUTY CYCLE



11:13:49 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Chamberlain Purple)
Notes	Wide Pulse = 1.0ms

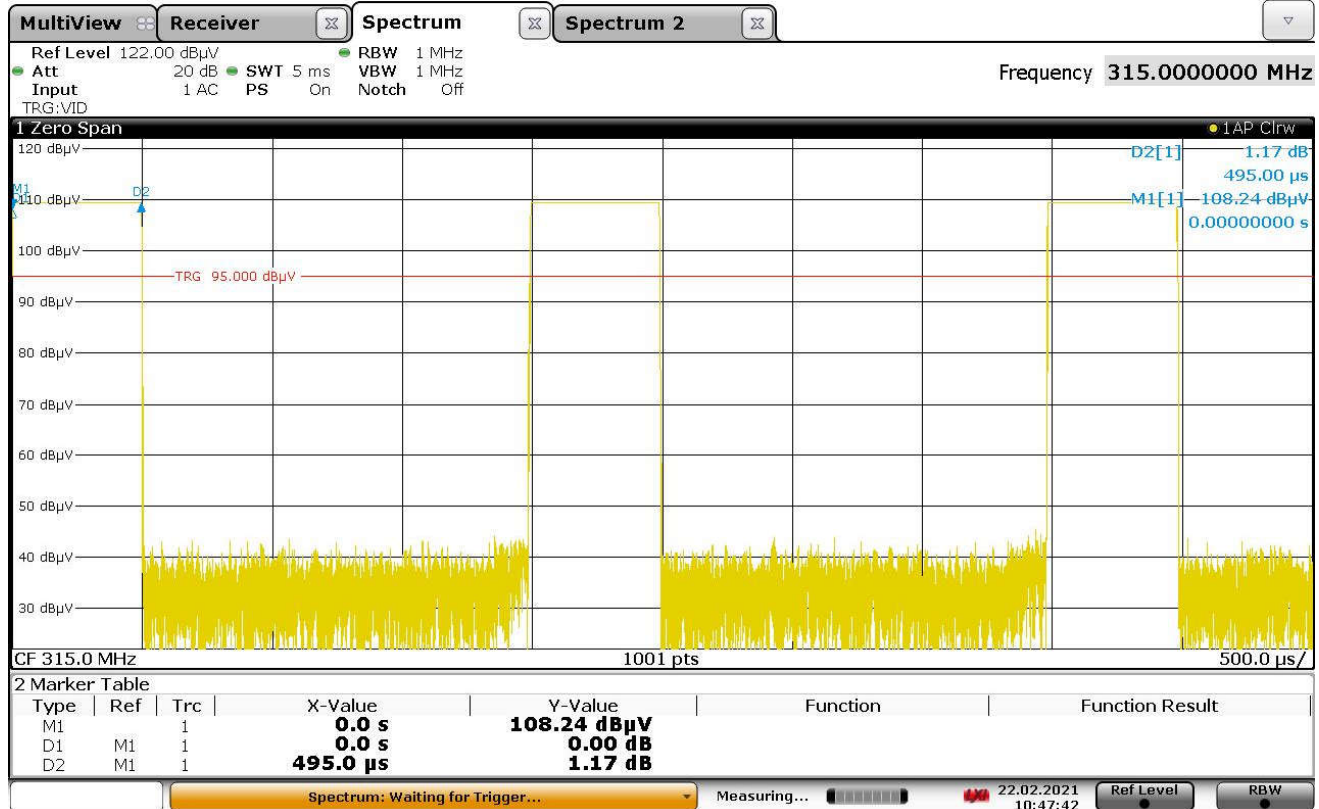
DUTY CYCLE – WIDE PULSE



10:49:19 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Chamberlain Purple)
Notes	Narrow Pulse = 495µs = 0.495ms

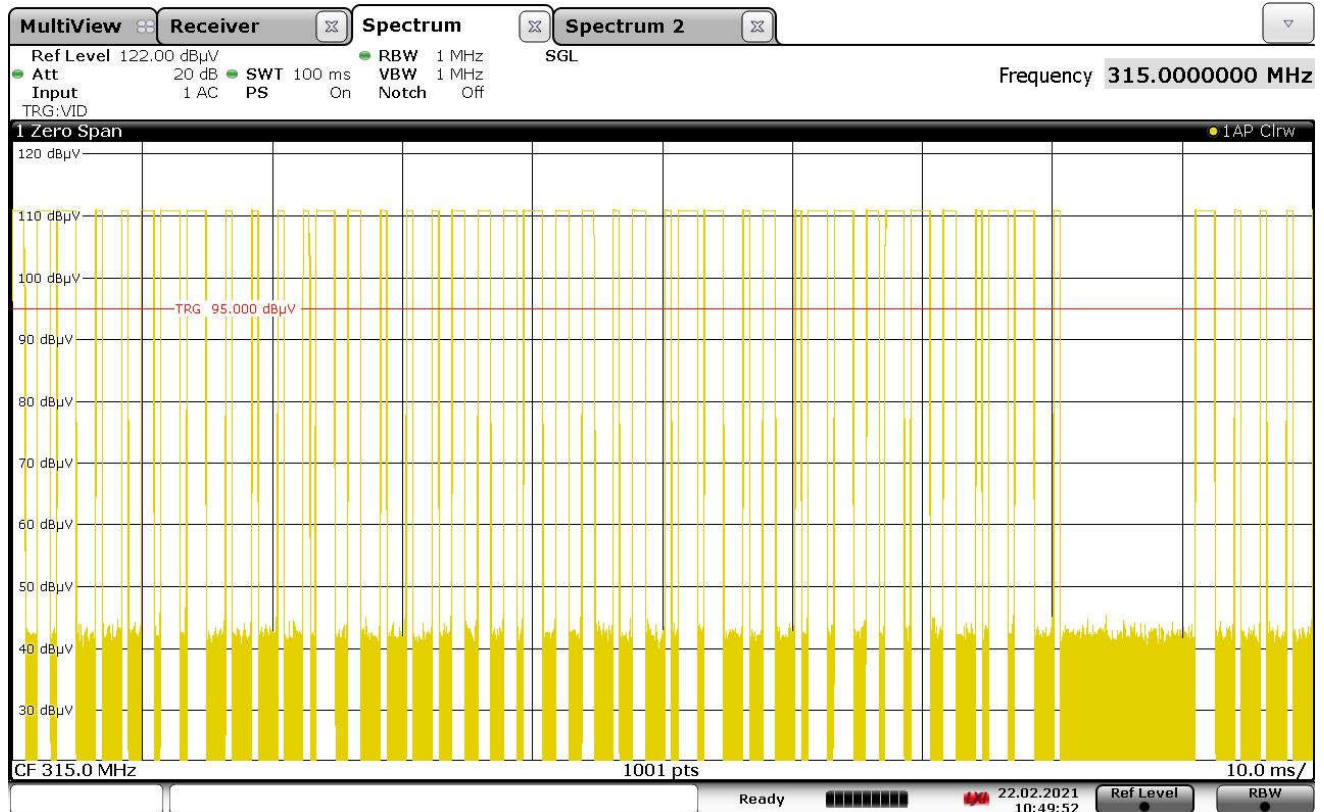
DUTY CYCLE – NARROW PULSE



10:47:43 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Chamberlain Purple)
Notes	Duty Cycle Calculation: $27 \times 1.0\text{ms} = 27\text{ms}$ $18 \times 0.495\text{ms} = 8.91\text{ms}$ $27 + 8.91 = 35.91$ $\text{D.C} = 20\log(35.91/100) = -8.89\text{dB}$

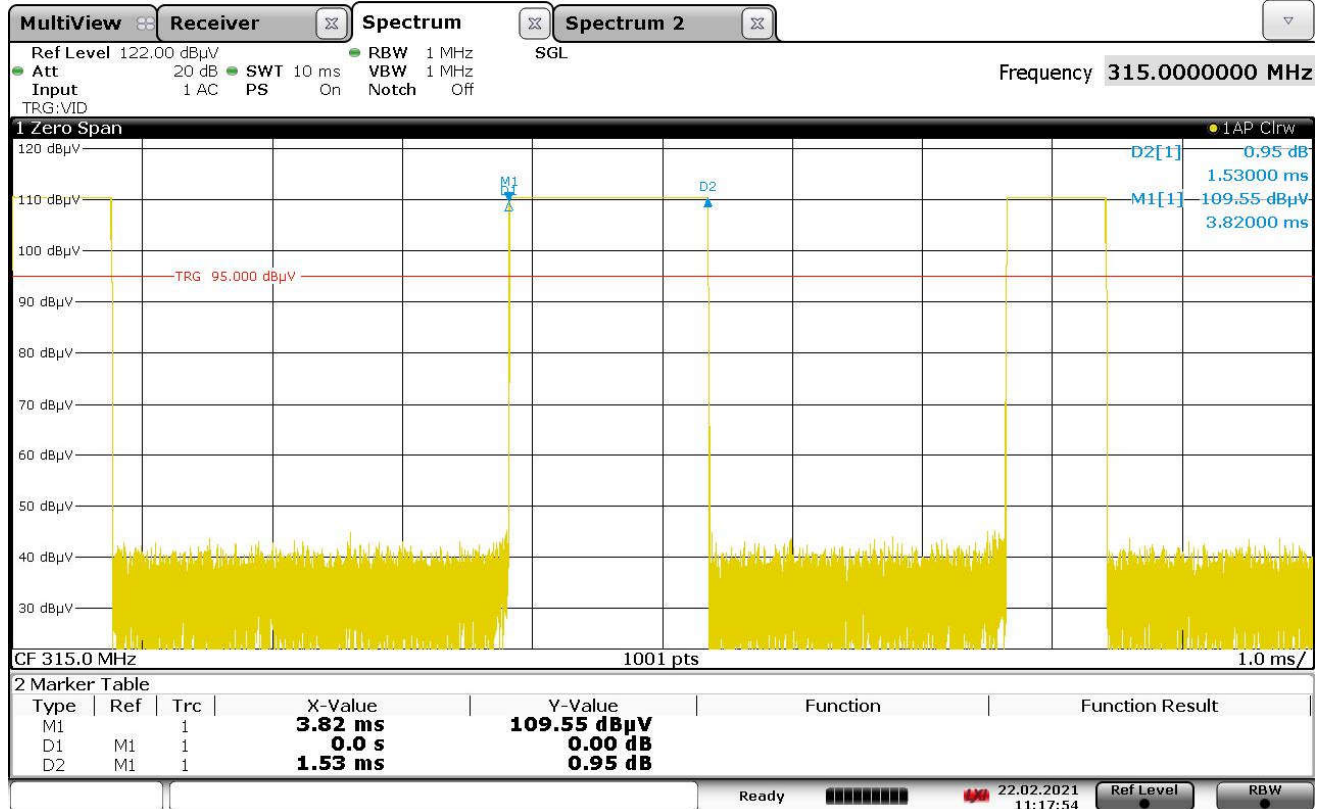
DUTY CYCLE



10:49:53 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Marantec)
Notes	Wide Pulse = 1.53ms

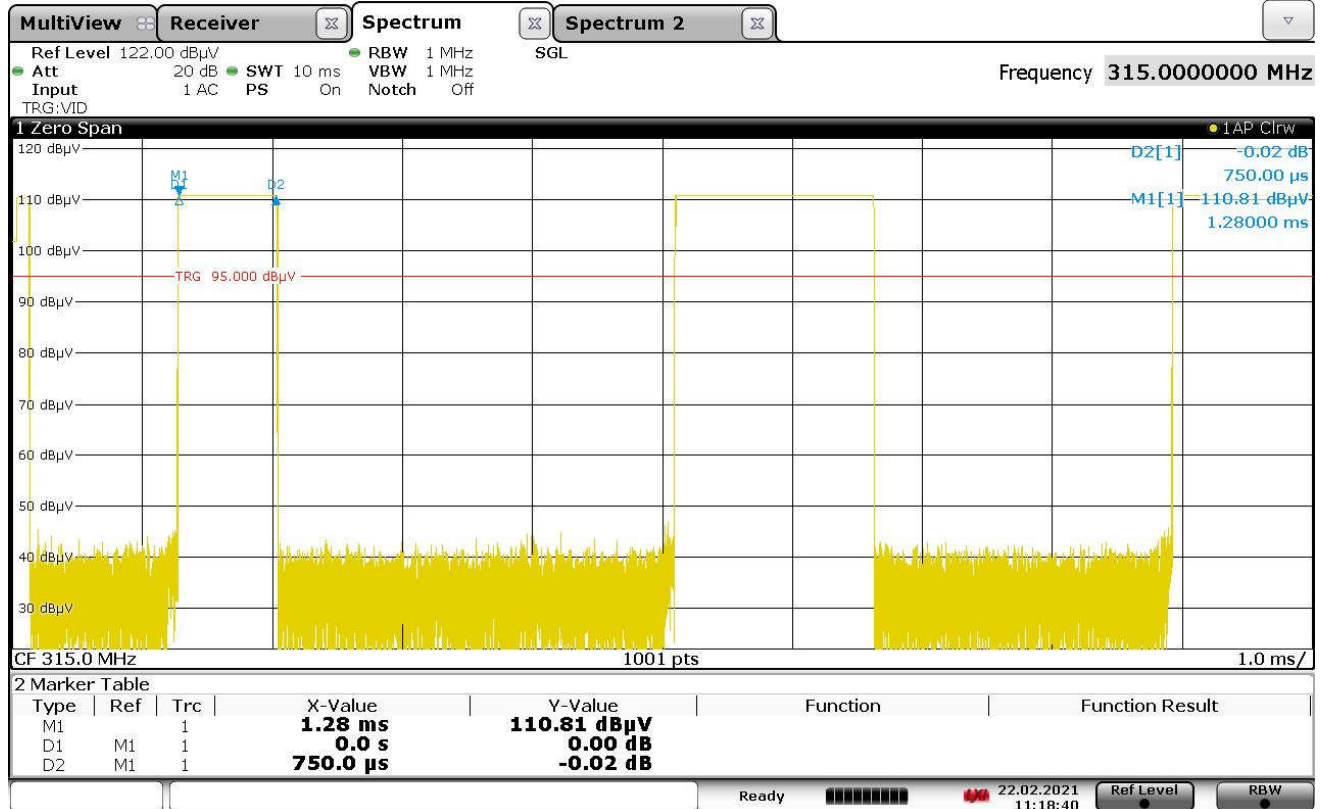
DUTY CYCLE – WIDE PULSE



11:17:55 22.02.2021

Test Details	
Manufacturer	Genie
Model No.	U2
Serial No.	NA
Test	FCC §15.231, RSS-210 Duty Cycle
Mode	Pulsed Tx
Carrier Frequency	315MHz (Marantec)
Notes	Narrow Pulse = 750µs = 0.75ms

DUTY CYCLE – NARROW PULSE



11:18:40 22.02.2021