



element

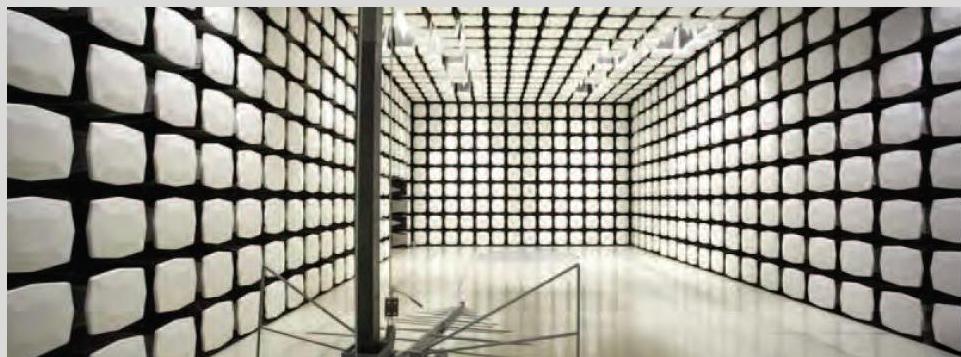
Timecode Systems Limited

AirGlu

FCC 15.247:2019

902 – 928 MHz FHSS Transceiver

Report # TMEC0007.8



NVLAP LAB CODE: 200630-0



This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. This Report shall not be reproduced, except in full without written approval of the laboratory.

EAR-Controlled Data - This document contains technical data whose export and reexport/retransfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval may be required for the export or re-export/retransfer of such technical data to any foreign person, foreign entity or foreign organization whether in the United States or abroad.

More: <https://www.bis.doc.gov/index.php/forms-documents/regulations-docs/14-commerce-country-chart/fileT>

CERTIFICATE OF TEST



Last Date of Test: May 16, 2019
Timecode Systems Limited
Model: AirGlu

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2019	ANSI C63.10:2013

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required for a battery powered EUT.
6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	
7.5	Duty Cycle	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
7.8.2	Carrier Frequency Separation	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
7.8.3	Number of Hopping Frequencies	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
7.8.4	Dwell Time	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
7.8.5	Output Power	Yes	Pass	
7.8.5	Equivalent Isotropic Radiated Power	Yes	Pass	
7.8.6	Band Edge Compliance	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
7.8.6	Band Edge Compliance - Hopping Mode	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
7.8.7	Occupied Bandwidth	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
7.8.8	Spurious Conducted Emissions	No	N/A	Not required. Testing completed under Element report TMEC0002.2 for FCC ID: AYV-USYNBL
11.10.2	Power Spectral Density	No	N/A	Not required for FHSS devices.

Deviations From Test Standards

None

Approved By:

Kyle Holgate, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY



Revision Number	Description	Date (yyyy-mm-dd)	Page Number
00	None		

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission – Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

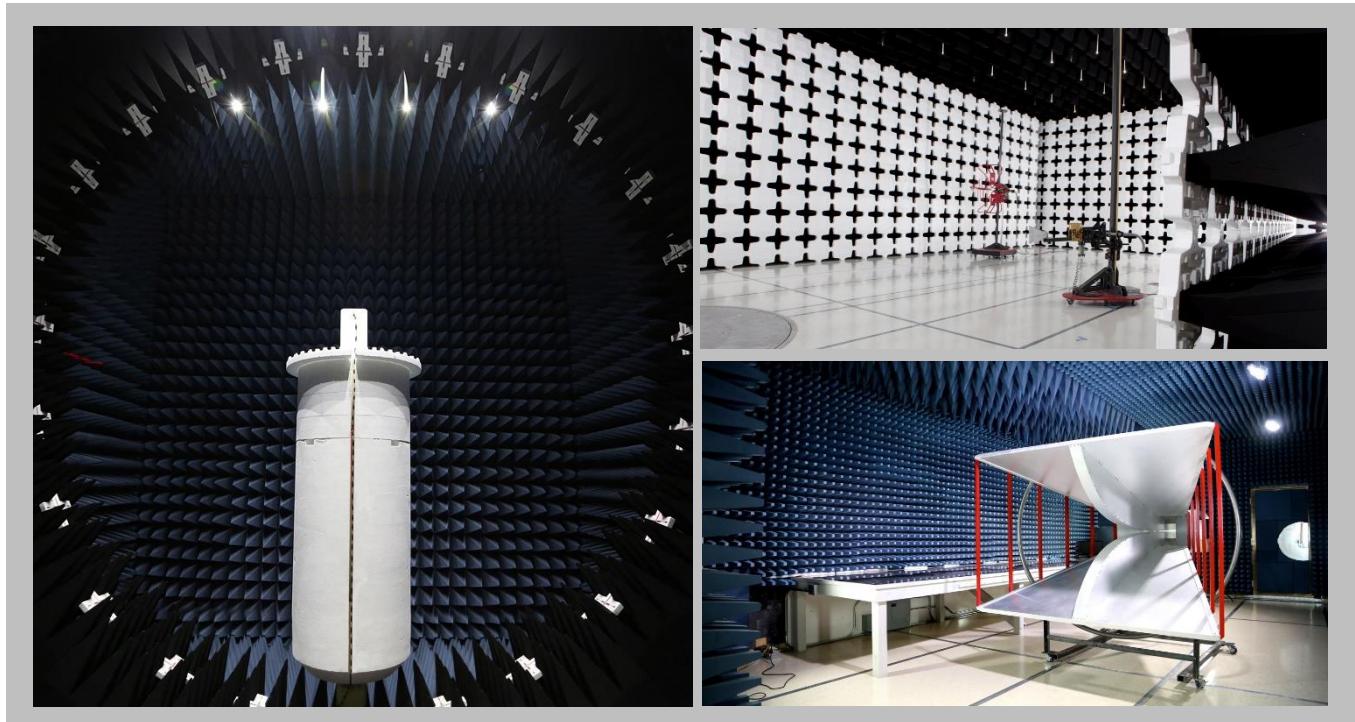
For details on the Scopes of our Accreditations, please visit:

<https://www.nwemc.com/emc-testing-accreditations>

FACILITIES



California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136	Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120th Ave NE Bothell, WA 98011 (425) 984-6600
NVLAP				
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code: 201049-0	NVLAP Lab Code: 200629-0
Innovation, Science and Economic Development Canada				
2834B-1, 2834B-3	2834E-1, 2834E-3	2834D-1	2834G-1	2834F-1
BSMI				
SL2-IN-E-1154R	SL2-IN-E-1152R	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
VCCI				
A-0029	A-0109	A-0108	A-0201	A-0110
Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA				
US0158	US0175	US0017	US0191	US0157



MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

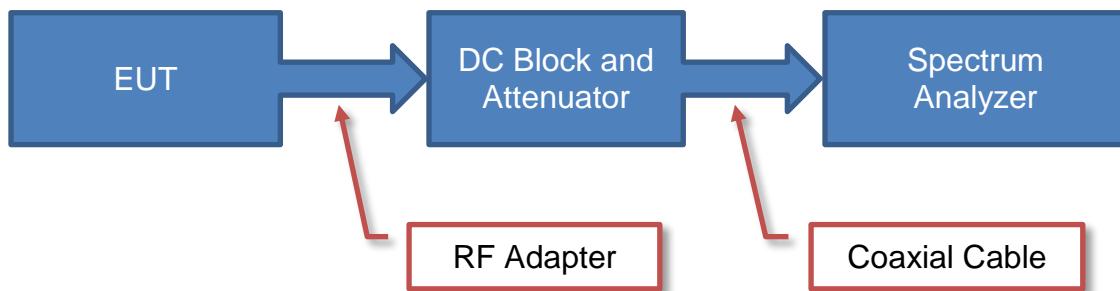
A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

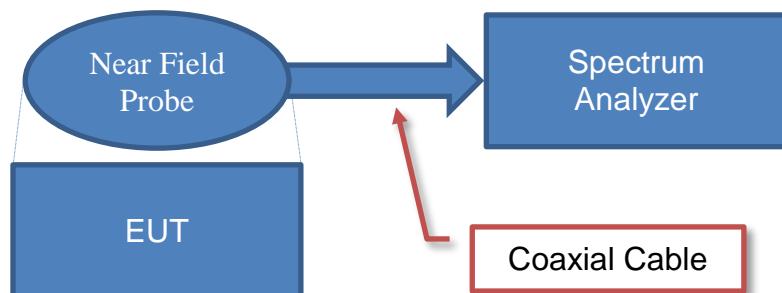
Test	+ MU	- MU
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	1.2 dB	-1.2 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

Test Setup Block Diagrams

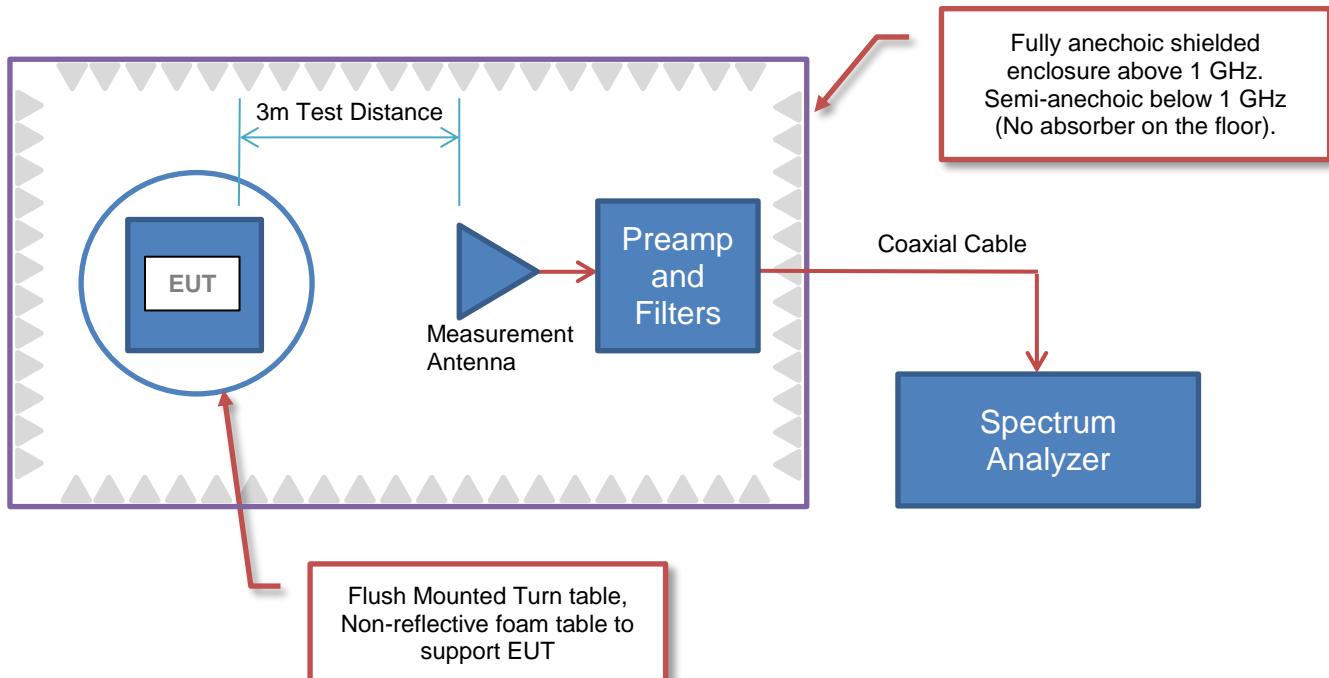
Antenna Port Conducted Measurements



Near Field Test Fixture Measurements



Spurious Radiated Emissions



PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Timecode Systems Limited
Address:	9 Mill House Elgar Business Centre
City, State, Zip:	Hallow, WR2 6NJ
Test Requested By:	Paul Scurrell
Model:	AirGlu
First Date of Test:	April 11, 2019
Last Date of Test:	May 16, 2019
Receipt Date of Samples:	April 5, 2019
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:
Time synchronization system utilizing a BLE radio and SRD radio.
Testing Objective:
Seeking to demonstrate compliance under FCC 15.247:2019 for operation in the 902 - 928 MHz Band.

CONFIGURATIONS



Configuration TMEC0007- 3

Software/Firmware Running during test	
Description	Version
TCS RfUtils	v3.93

EUT				
Description	Manufacturer	Model/Part Number	Serial Number	
Time code synchronization system	Timecode Systems Limited	AirGlu	3	
Host enclosure (Expansion module)	Atmos	AtmosX Sync	N/A	

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Battery	Power Extra	NP-F750/F770	N/A

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	HP	Pavilion g6	Unknown

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
FFC Flex Cable	No	0.2 m	No	Time code synchronization system	Power Distribution Board
Serial to USB	Yes	1.0 m	No	Power Distribution Board	Laptop

CONFIGURATIONS



Configuration TMEC0007- 4

Software/Firmware Running during test	
Description	Version
TCS RfUtils	v3.93

EUT				
Description	Manufacturer	Model/Part Number	Serial Number	
Time code synchronization system	Timecode Systems Limited	AirGlu	Unknown	
Host enclosure (Expansion module)	Atmos	AtmosX Sync	N/A	

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Battery	Power Extra	NP-F750/F770	N/A

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	HP	Pavilion g6	Unknown

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Serial Cable	No	0.1 m	Yes	Time code synchronization system	Unterminated

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2019-04-11	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	2019-04-11	Equivalent Isotropic Radiated Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2019-05-16	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2019.02.26

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. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Continuous Tx, Low Landing Ch. = 915.05 MHz, High Landing Ch. = 918.650 MHz, Low Data Ch. = 915.800 MHz, High Data Ch. = 922.200 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

TMEC0007 - 4

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	12400 MHz
-----------------	--------	----------------	-----------

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Filter - Low Pass	Micro-Tronics	LPM50004	LFD	15-Feb-2019	12 mo
Filter - High Pass	Micro-Tronics	HPM50108	HFV	11-Dec-2018	12 mo
Filter - Band Pass/Notch	K&L Microwave	3TNF-500/1000-N/N	HFT	5-Dec-2018	12 mo
Attenuator	Coaxicom	3910-20	AXZ	15-Feb-2019	12 mo
Cable	None	Standard Gain Horns Cable	EVF	24-Nov-2018	12 mo
Cable	N/A	Double Ridge Horn Cables	EVB	24-Nov-2018	12 mo
Cable	N/A	Bilog Cables	EVA	24-Nov-2018	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	24-Nov-2018	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAG	24-Nov-2018	12 mo
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AOL	24-Nov-2018	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-07	AHU	NCR	0 mo
Antenna - Double Ridge	ETS Lindgren	3115	AIZ	7-Feb-2018	24 mo
Antenna - Biconilog	Teseq	CBL 6141B	AXR	2-Oct-2018	24 mo
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	24-Mar-2019	12 mo

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

SPURIOUS RADIATED EMISSIONS

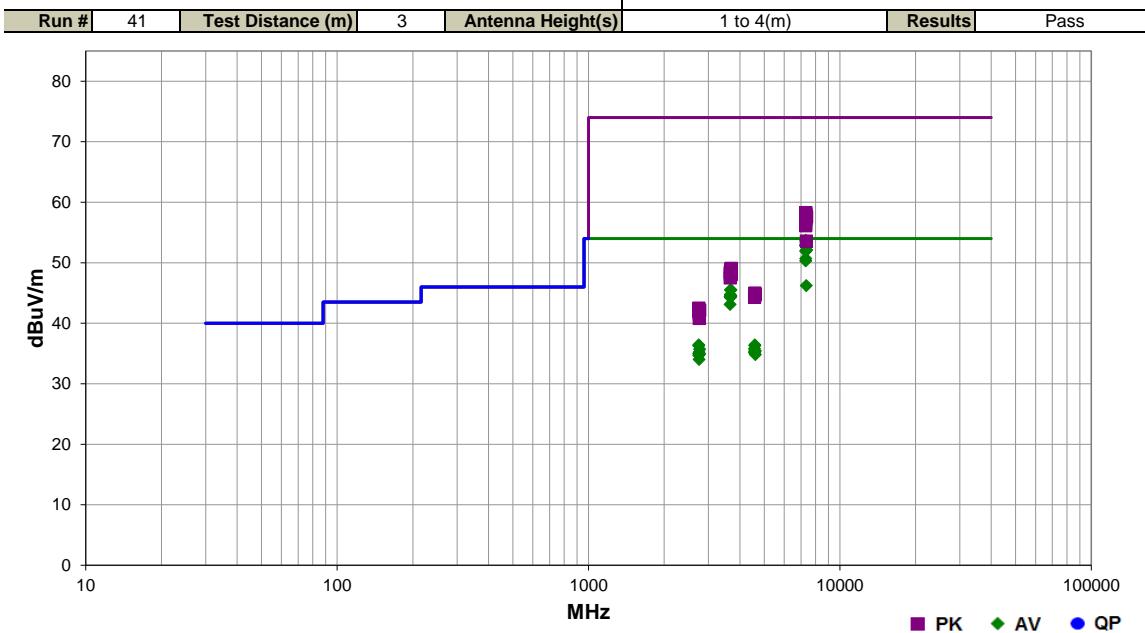


EmiR5 2018.09.26

PSA-ESCI 2019.02.26

Work Order:	TMEC0007	Date:	16-May-2019	
Project:	None	Temperature:	20.8 °C	
Job Site:	EV01	Humidity:	49.1% RH	
Serial Number:	3	Barometric Pres.:	1003 mbar	Tested by: Jeff Alcock
EUT:	AirGlu			
Configuration:	4			
Customer:	Timecode Systems Limited			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Continuous Tx, Low Landing Ch. = 915.05 MHz, High Landing Ch. = 918.650 MHz, Low Data Ch. = 915.800 MHz, High Data Ch. = 922.200 MHz			
Deviations:	None			
Comments:	See comments below for Channel, EUT orientation, and PA setting/value.			

Test Specifications	Test Method
FCC 15.247:2019	ANSI C63.10:2013



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7320.350	40.6	13.1	2.6	130.0	3.0	0.0	Horz	AV	0.0	53.7	54.0	-0.3	Low Landing, EUT Horz, PA = 100
7326.308	40.2	13.2	2.7	199.0	3.0	0.0	Horz	AV	0.0	53.4	54.0	-0.6	Low Data, EUT Horz, PA = 120
7320.335	39.8	13.1	2.6	130.0	3.0	0.0	Horz	AV	0.0	52.9	54.0	-1.1	Low Landing, EUT Horz, PA = 90
7320.405	39.8	13.1	1.5	203.0	3.0	0.0	Vert	AV	0.0	52.9	54.0	-1.1	Low Landing, EUT Horz, PA = 120
7320.385	39.7	13.1	3.8	223.0	3.0	0.0	Vert	AV	0.0	52.8	54.0	-1.2	Low Landing, EUT on Side, PA = 120
7377.485	38.2	13.9	2.7	200.0	3.0	0.0	Horz	AV	0.0	52.1	54.0	-1.9	High Data, EUT Horz, PA = 120
7326.308	38.8	13.2	4.0	191.0	3.0	0.0	Vert	AV	0.0	52.0	54.0	-2.0	Low Data, EUT on Side, PA = 120
7320.455	38.8	13.1	3.6	236.0	3.0	0.0	Horz	AV	0.0	51.9	54.0	-2.1	Low Landing, EUT Vert, PA = 120
7320.365	37.6	13.1	3.3	52.0	3.0	0.0	Vert	AV	0.0	50.7	54.0	-3.3	Low Landing, EUT Vert, PA = 120
7320.470	37.2	13.1	1.4	179.0	3.0	0.0	Horz	AV	0.0	50.3	54.0	-3.7	Low Landing, EUT on Side, PA = 120
7349.180	33.0	13.2	1.0	36.0	3.0	0.0	Vert	AV	0.0	46.2	54.0	-7.8	High Landing, EUT on Side, PA = 120
3688.767	43.3	2.2	1.1	206.0	3.0	0.0	Vert	AV	0.0	45.5	54.0	-8.5	High Data, EUT on Side, PA = 90
3674.555	43.4	2.1	1.0	213.0	3.0	0.0	Vert	AV	0.0	45.5	54.0	-8.5	High Landing, EUT on Side, PA = 90
3663.205	42.6	2.1	1.1	212.0	3.0	0.0	Vert	AV	0.0	44.7	54.0	-9.3	Low Data, EUT on Side, PA = 90
3688.808	42.3	2.2	1.0	203.0	3.0	0.0	Horz	AV	0.0	44.5	54.0	-9.5	High Data, EUT Horz, PA = 90



XMit 2019.02.26

OUTPUT POWER

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	5-Nov-18	5-Nov-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	28-Mar-19	28-Mar-20
Attenuator	S.M. Electronics	SA26B-20	AUY	28-Mar-19	28-Mar-20
Block - DC	Fairview Microwave	SD3379	AMW	28-Mar-19	28-Mar-20
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	27-Jul-18	27-Jul-19

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

OUTPUT POWER



TbTx 2018.09.13 XMi 2019.02.26

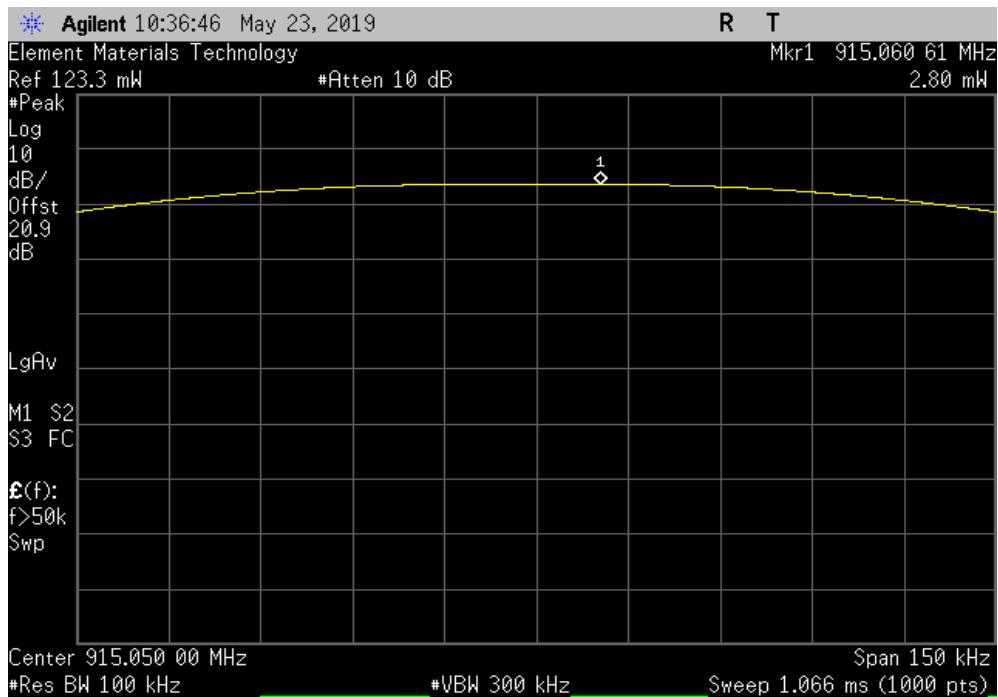
EUT:	AirGlu		Work Order:	TMEC0007		
Serial Number:	3		Date:	11-Apr-19		
Customer:	Timecode Systems Limited		Temperature:	20 °C		
Attendees:	None		Humidity:	46.1% RH		
Project:	None		Barometric Pres.:	1022 mbar		
Tested by:	Jeff Alcocke	Power:	2.0 VDC and 3.3 VDC via USB		Job Site:	EV01
TEST SPECIFICATIONS			Test Method			
FCC 15.247:2019			ANSI C63.10:2013			
COMMENTS						
Reference level offset includes: DC block, 20 dB attenuator, measurement cable, and manufacturers coax to SMA cable. Software power setting = 90						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	3	Signature		Value	Limit (<)	
			2.80 mW	1 W	Pass	
			2.89 mW	1 W	Pass	
			2.77 mW	1 W	Pass	
			2.92 mW	1 W	Pass	
902 MHz - 928 MHz Band						
Single Channel Mode						
Low Landing Channel, 915.05 MHz						
High Landing Channel, 918.65 MHz						
Low Data Channel, 915.80 MHz						
High Data Channel, 922.20 MHz						

OUTPUT POWER

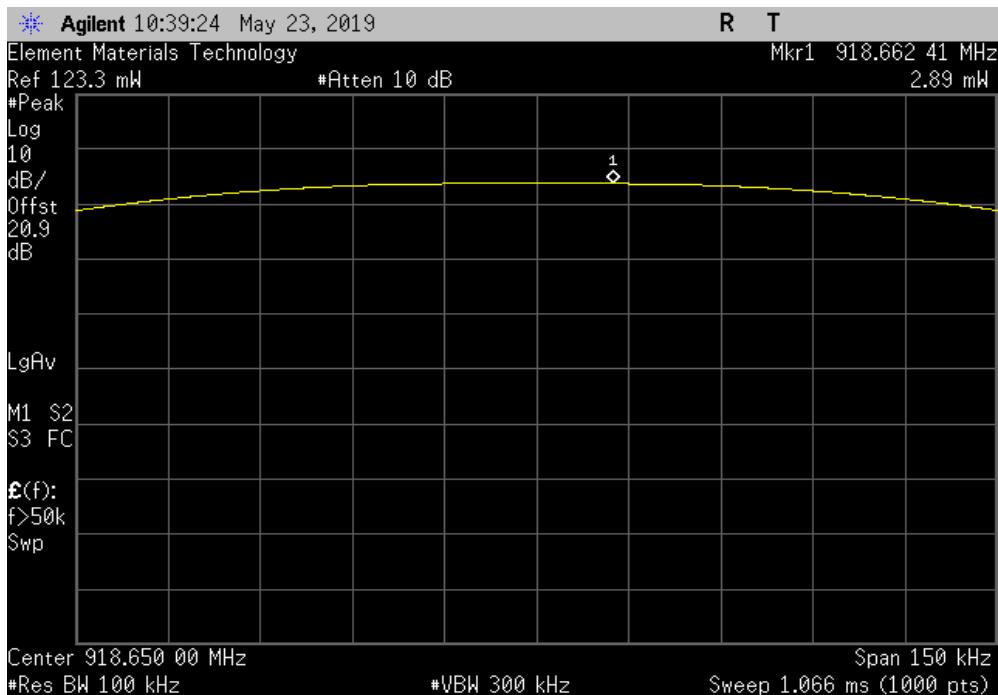


TbTx 2018.09.13 XMI 2019.02.26

902 MHz - 928 MHz Band, Single Channel Mode, Low Landing Channel, 915.05 MHz		
	Value	Limit
	2.80 mW	(<) 1 W Result Pass



902 MHz - 928 MHz Band, Single Channel Mode, High Landing Channel, 918.65 MHz		
	Value	Limit
	2.89 mW	(<) 1 W Result Pass

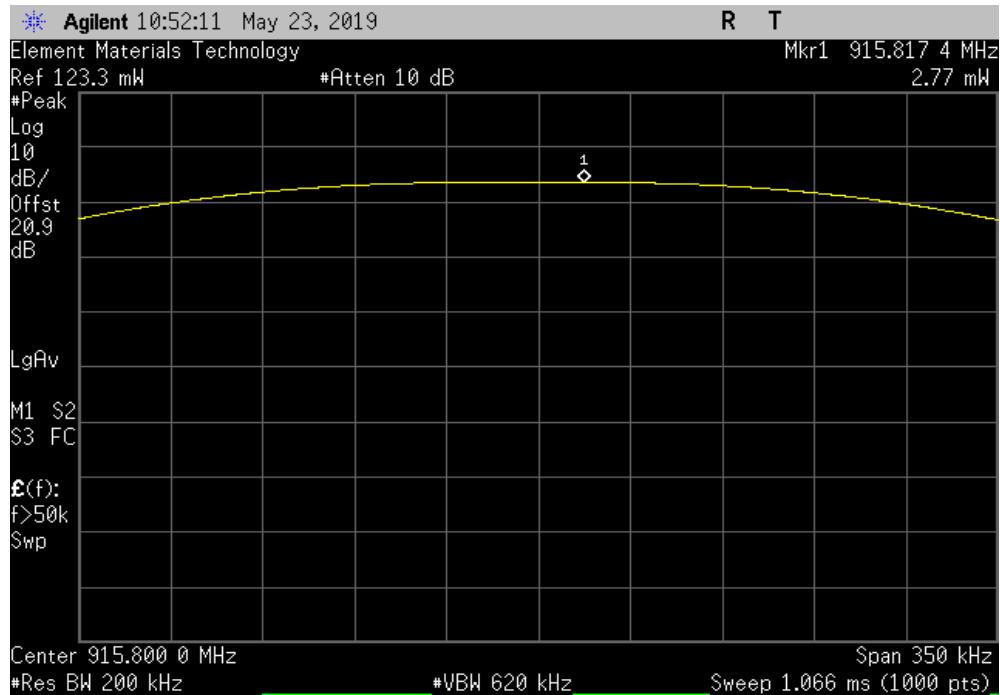


OUTPUT POWER

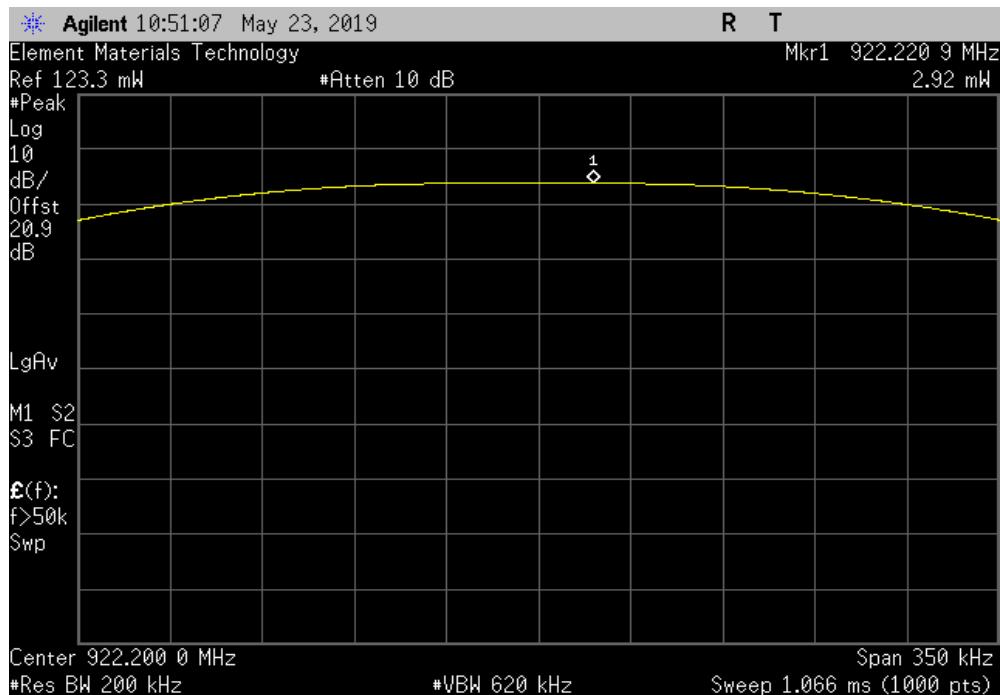


TbTx 2018.09.13 XMI 2019.02.26

902 MHz - 928 MHz Band, Single Channel Mode, Low Data Channel, 915.80 MHz			Limit
Value	(<)	Result	
2.77 mW	1 W	Pass	



902 MHz - 928 MHz Band, Single Channel Mode, High Data Channel, 922.20 MHz			Limit
Value	(<)	Result	
2.92 mW	1 W	Pass	



EQUIVALENT ISOTROPIC RADIATED POWER



XMit 2019.02.26

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	5-Nov-18	5-Nov-21
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	28-Mar-19	28-Mar-20
Attenuator	S.M. Electronics	SA26B-20	AUY	28-Mar-19	28-Mar-20
Block - DC	Fairview Microwave	SD3379	AMW	28-Mar-19	28-Mar-20
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	27-Jul-18	27-Jul-19

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

The antenna gain of the EUT was then added to the conducted output power to derive the EIRP Values

EQUIVALENT ISOTROPIC RADIATED POWER



TbTx 2018.09.13

XMi 2019.02.26

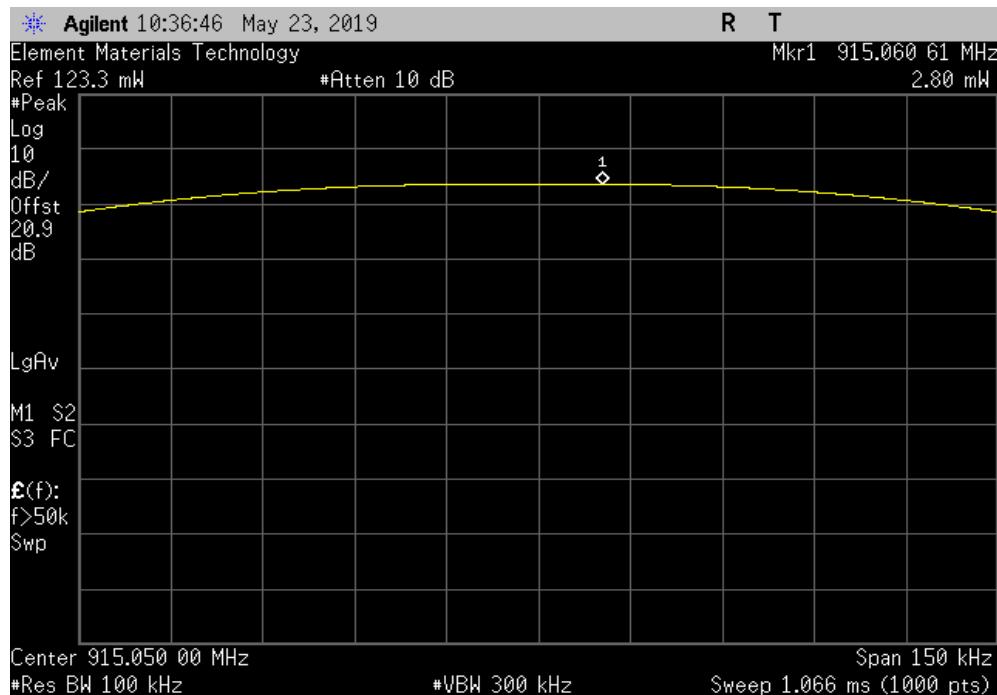
EUT:	AirGlu		Work Order:	TMEC0007				
Serial Number:	3		Date:	11-Apr-19				
Customer:	Timecode Systems Limited		Temperature:	20 °C				
Attendees:	None		Humidity:	46.1% RH				
Project:	None		Barometric Pres.:	1022 mbar				
Tested by:	Jeff Alcocke	Power:	2.0 VDC and 3.3 VDC via USB		Job Site:	EV01		
TEST SPECIFICATIONS			Test Method					
FCC 15.247:2019			ANSI C63.10:2013					
COMMENTS								
Reference level offset includes: DC block, 20 dB attenuator, measurement cable, and manufacturers coax to SMA cable. Software power setting = 90								
DEVIATIONS FROM TEST STANDARD								
None								
Configuration #	3	Signature						
			Value (mW)	Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Result
902 MHz - 928 MHz Band								
Single Channel Mode								
			2.80	4.47	3	7.5	≤ 36	Pass
Low Landing Channel, 915.05 MHz			2.89	4.61	3	7.6	≤ 36	Pass
High Landing Channel, 918.65 MHz			2.77	4.42	3	7.4	≤ 36	Pass
Low Data Channel, 915.80 MHz			2.92	4.65	3	7.7	≤ 36	Pass
High Data Channel, 922.20 MHz								

EQUIVALENT ISOTROPIC RADIATED POWER

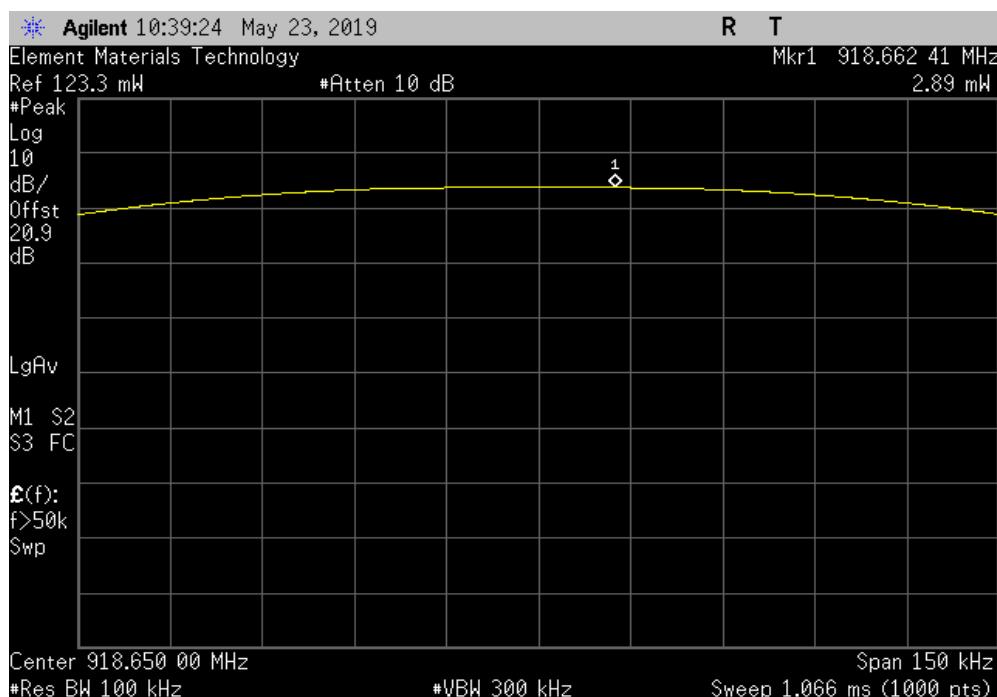


TbTx 2018.09.13 XMI 2019.02.26

902 MHz - 928 MHz Band, Single Channel Mode, Low Landing Channel, 915.05 MHz						
	Value (mW)	Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Result
	2.80	4.5	3	7.5	≤ 36	Pass



902 MHz - 928 MHz Band, Single Channel Mode, High Landing Channel, 918.65 MHz						
	Value (mW)	Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Result
	2.89	4.6	3	7.6	≤ 36	Pass

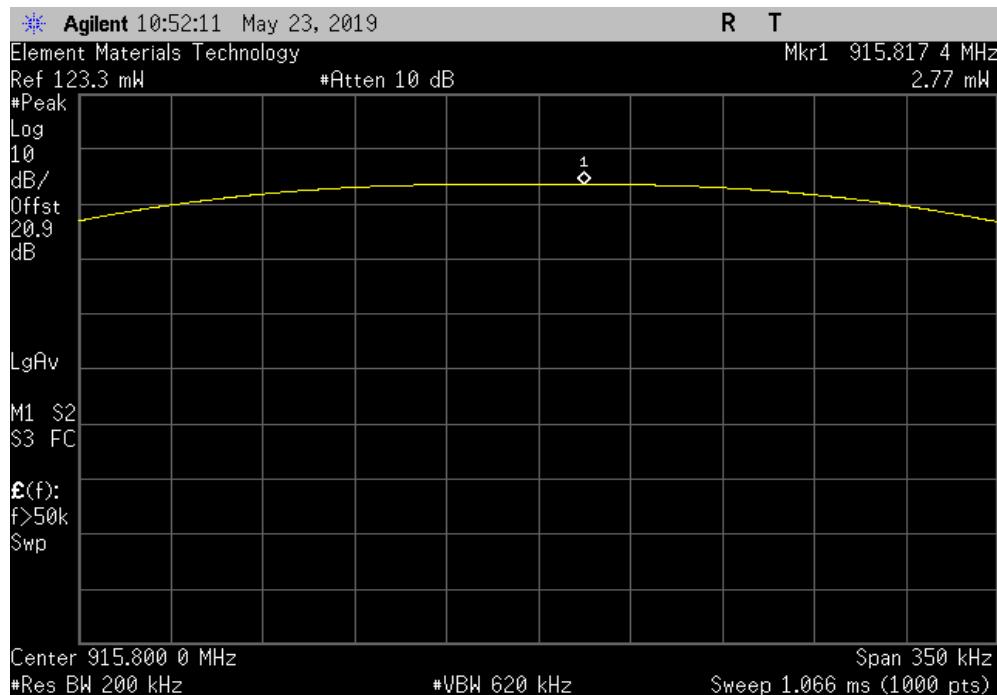


EQUIVALENT ISOTROPIC RADIATED POWER



TbTx 2018.09.13 XMI 2019.02.26

902 MHz - 928 MHz Band, Single Channel Mode, Low Data Channel, 915.80 MHz						
Value (mW)	Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Result	
2.77	4.4	3	7.4	≤ 36	Pass	



902 MHz - 928 MHz Band, Single Channel Mode, High Data Channel, 922.20 MHz						
Value (mW)	Value (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Result	
2.92	4.7	3	7.7	≤ 36	Pass	

