

Multi-Tech Systems, Inc.

RBS304 Panic Button

FCC 15.247:2024

RSS-Gen Issue 5:2018+A1:2019+A2:2021 RSS-247 Issue 3:2023

LoRa DTS transceiver

Report: MLTI0360.1 Rev. 1, Issue Date: July 18, 2024

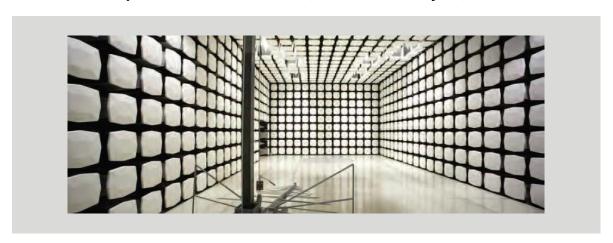






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CERTIFICATE OF TEST



Last Date of Test: May 15, 2024 Multi-Tech Systems, Inc. EUT: RBS304 Panic Button

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2024	ANSI C63.10:2013
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013
RSS-247 Issue 3:2023	ANSI C63.10:2013

Note: RSS-247 Issue 3 has been updated superseding prior Issues and amendments noted within the body of this report. The FCC year has also been updated. The changes between the specifications do not affect the results of the prior testing. The manufacture attests that no changes have been made to the product. See gap analysis for RSS-247 below).

- 1. Modified section 6.2 to clarify that different measurement methods can apply depending on the operating frequency range of the device.
- 2. Added section 6.2.5 to introduce the requirements for devices operating from 5850 5895 MHz and channels that span across 5850 MHz.
- 3. Added section 6.2.5.1 to provide general information and definitions.
- 4. Added section 6.2.5.2 to identify the power limits associated with devices operating in the 5850-5895 MHz band.
- Added section 6.2.5.3 to identify the unwanted emission limits associated with devices operating in the 5850-5895 MHz band.
- 6. Made editorial changes and clarifications, as appropriate.

Guidance

FCC KDB 558074 v05r02:2019

Results

Test Description	Result	FCC Section(s)	RSS Section(s)	ANSI C63.10 Section(s)	Comments
Powerline Conducted Emissions (Transmitter)	N/A	15.207	RSS-Gen 8.8	6.2	Not required for a battery powered EUT.
Spurious Radiated Emissions	Pass	15.247(d), KDB 558074 -8.6, 8.7	RSS-247 5.5	6.5, 6.6, 11.12.1, 11.13.2	
Duty Cycle	N/A	15.247, KDB 558074 -6.0	RSS-Gen 3.2	11.6	See Data
Output Power	Pass	15.247(b), KDB 558074 -8.3	RSS-247 5.4(d)	11.9.1.1	
Equivalent Isotropic Radiated Power (EIRP)	Pass	15.247(b), KDB 558074 -8.3	RSS-247 5.4(d)	11.9.1.1	
Band Edge Compliance	N/A	15.247(d), KDB 558074 -8.5	RSS-247 5.5	11.11	Not included for a C2PC related to adding a new antenna and addressing portable usage.
DTS Bandwidth (6 dB)	Pass	15.247(a), KDB 558074 -8.2	RSS-247 5.2(a)	11.8.2	
Occupied Bandwidth (99%)	N/A	KDB 558074 -2.1	RSS-Gen	6.9.3	Not included for a C2PC related

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.

CERTIFICATE OF TEST



			6.7		to adding a new antenna and addressing portable usage.
Spurious Conducted Emissions	N/A	15.247(d), KDB 558074 -8.5	RSS-247 5.5	11.11	Not included for a C2PC related to adding a new antenna and addressing portable usage.
Power Spectral Density	N/A	15.247(e), KDB 558074 -8.4	RSS-247 5.2(b)	11.10.2	Not included for a C2PC related to adding a new antenna and addressing portable usage.
Powerline Conducted Emissions (Receiver)	N/A	15.101, 15.107	RSS-Gen 5.2	ANSI C63.4 - 12.2.4	Not included per FCC 15.101 as this will be covered under SDoC rules for the FCC. RSS-Gen section 7 stated receiver requirements only apply to standalone receivers operating in the 30-960 MHz band and this is not a standalone receiver.
Radiated Emissions for Receiver	N/A	15.101, 15.109	RSS-Gen 5.2	ANSI C63.4 - 12.2.5	Not included per FCC 15.101 as this will be covered under SDoC rules for the FCC. RSS-Gen section 7 stated receiver requirements only apply to standalone receivers operating in the 30-960 MHz band and this is not a standalone receiver.

Deviations From Test Standards

None

Approved By:

Trevor Buls, Principal EMC Test Engineer Signed for and on behalf of Element

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		
01	Removed additional data not needed to support a permissive change. Corrected frequency range for Spurious Radiated Emissions and equipment used.	2024-07-17	16-17
01	Included Appendix with Attestations	2024-07-18	41
01	Included Full set of data for SRE, updated modifications and configs to reflect the data.	2024-07-18	18-20, 15, 14,
01	Updates last testing date	2024-07-18	3, 12, 15

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 - Each laboratory is accredited by A2LA to ISO / IEC 17025, and as a product certifier to ISO / IEC 17065 which allows Element to certify transmitters to FCC and IC specifications.

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 - Recognized as an EU Notified Body validated for the EMCD and RED Directives.

United Kingdom

BEIS - Recognized by the UK as an Approved Body under the UK Radio Equipment and UK EMC Regulations.

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:

<u>California</u> <u>Minnesota</u> <u>Oregon</u> <u>Texas</u> <u>Washington</u>

FACILITIES

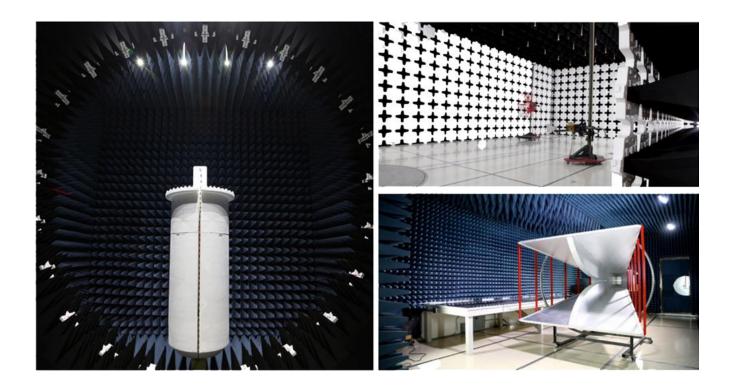


Testing was performed at the following location(s)

	Location	Labs (1)	Address	A2LA (2)	ISED (3)	BSMI (4)	VCCI (5)	CAB (6)	FDA (7)
	California	OC01-17	41 Tesla Irvine, CA 92618 (949) 861-8918	3310.04	2834B	SL2-IN-E-1154R	A-0029	US0158	TL-55
×	Minnesota	MN01-11	9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136	3310.05	2834E	SL2-IN-E-1152R	A-0109	US0175	TL-57
	Oregon	EV01-12	6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	3310.02	2834D	SL2-IN-E-1017	A-0108	US0017	TL-56
	Texas	TX01-09	3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	3310.03	2834G	SL2-IN-E-1158R	A-0201	US0191	TL-54
	Washington	NC01-05	19201 120th Ave NE Bothell, WA 98011 (425) 984-6600	3310.06	2834F	SL2-IN-E-1153R	A-0110	US0157	TL-67
	Offsite	N/A	See Product Description	N/A	N/A	N/A	N/A	N/A	N/A

See data sheets for specific labs

- The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
 AZLA Certificate No.
 ISED Company No.
 BSMI No.
 VCCI Site Filing No.
 CAB Identifier. Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA FDA ASCA No.



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 in the table below. A lab specific value may also be found in the applicable test description section. 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	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)	3.2 dB	-3.2 dB

TEST SETUP BLOCK DIAGRAMS

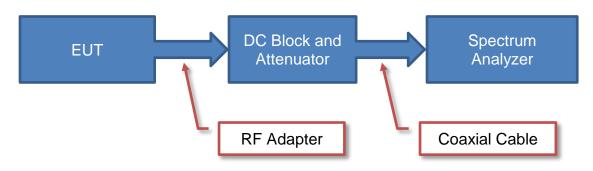


Measurement Bandwidths

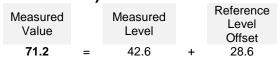
Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

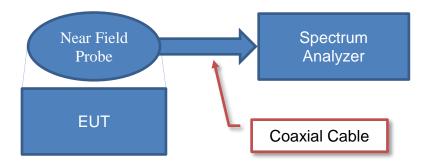
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)



Near Field Test Fixture Measurements

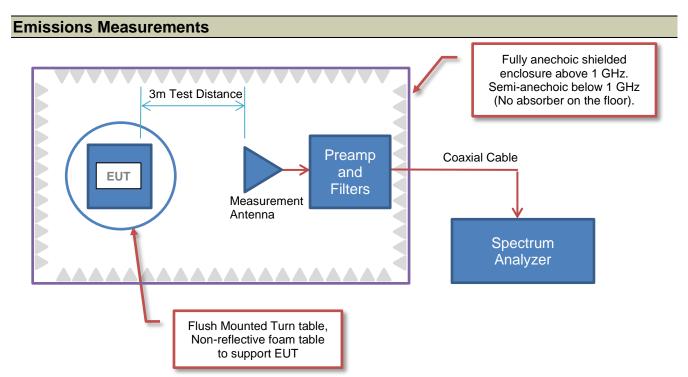


Sample Calculation (logarithmic units)

Measured Value		Measured Level		Reference Level Offset
71.2	=	42.6	+	28.6

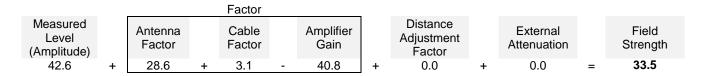
TEST SETUP BLOCK DIAGRAMS



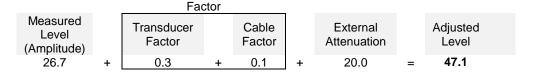


Sample Calculation (logarithmic units)

Radiated Emissions:



Conducted Emissions:



Radiated Power (ERP/EIRP) - Substitution Method:

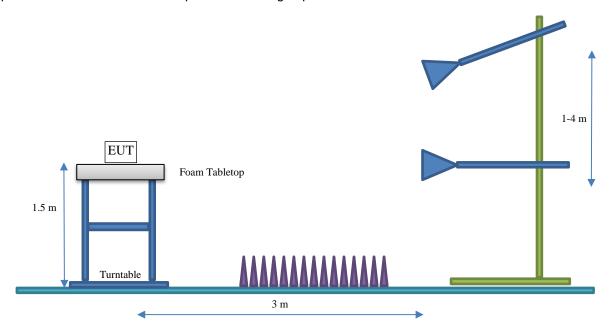
Measured Level into Substitution Antenna (Amplitude dBm)		Substitution Antenna Factor (dBi)		EIRP to ERP (if applicable)		Measured power (dBm ERP/EIRP)
10.0	+	6.0	-	2.15	=	13.9/16.0

TEST SETUP BLOCK DIAGRAMS



Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION



Client and Equipment under Test (EUT) Information

Company Name:	Multi-Tech Systems, Inc.
Address:	2205 Woodale Dr
City, State, Zip:	Mounds View, MN 55112
Test Requested By:	Tim Gunn
EUT:	RBS304 Panic Button
First Date of Test:	January 21, 2022
Last Date of Test:	May 15, 2024
Receipt Date of Samples:	January 21, 2022
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

The wireless sensors designed and manufactured by Radio Bridge provide full sensor to cloud solutions for Internet of Things (IoT) applications. The wireless single push button sensor can be used as a panic button, PERS, remote control, or other remote push button applications. When the button is pressed, a message is sent over the wireless network.

This radio has both DTS and Hybrid modes. This test report covers DTS operation.

Testing Objective:

Seeking to demonstrate compliance of the LoRa radio with operation under FCC 15.247:2024 and RSS-Gen Issue 5:2018+A1:2019+A2:2021, RSS-247 Issue 3:2023 specifications under technology category Other.

POWER SETTINGS AND ANTENNAS



The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information.

ANTENNA GAIN (dBi)

Type	Provided by:	Frequency Range (MHz)	Gain (dBi)
Ceramic Chip Antenna	Unictron Technologies Corp.	902-928	0.8

The EUT was tested using the power settings provided by the manufacturer:

SETTINGS FOR ALL TESTS IN THIS REPORT

	Position		
Modulation Types	(if multiple channels)	Frequency (MHz)	Power Setting
CSS Modulation	Low Channel	903.0	22 dBm
500 kHz Channel Bandwidth	Mid Channel	909.4	22 dBm
500 kHz Channel Bandwidth	High Channel	914.2	22 dBm

TEST FIRMWARE AND SOFTWARE

Main Processor – PIC18LF26K40 Firmware Version 2.2.14 Radio Processor – 1SJ Firmware Version 1.0.02

Test Software: Tera Term Version 4.106

CONFIGURATIONS



Configuration MLTI0217-2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Panic Button	Multi-Tech Systems, Inc.	RBS304	1243133741-0015

Remote Equipment Outside of Test Setup Boundary									
Description Manufacturer Model/Part Number Serial Number									
Laptop	Lenovo	P15s	PF-2Z6MQL						
Power Supply (Laptop)	Lenovo	14F006V	8SSA10R16898D1SG						
USB to Serial Bridge	N/A	YPU-05	N/A						

Cables										
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2					
AC Cable (Laptop)	No	1.0 m	No	AC Mains	Power Supply (Laptop)					
DC Cable (Laptop)	No	1.8 m	No	Power Supply (Laptop)	Laptop					
USB Cable	Yes	1.8 m	No	Laptop	USB to Serial Bridge					
Serial Cable	No	0.2 m	No	USB to Serial Bridge	Panic Button					

Configuration MLTI0360-1

EUT									
Description	Manufacturer	Model/Part Number	Serial Number						
RBS304 Panic Button	MultiTech	RBS304	1243133741-0023						

Only the equipment shown directly in the test setup was included in this configuration.

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2022-02-14	Band Edge Compliance	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	2022-02-14	Duty Cycle	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	2022-02-14	DTS Bandwidth (6 dB)	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	2022-02-14	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.
5	2022-02-14	Equivalent Isotropic Radiated Power (EIRP)	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
6	2024-05-15	Spurious Radiated Emissions	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.



18-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 within 2 MHz of the allowable band may have been taken using the integration method from ANSI C63.10 clause 11.13.3. This procedure uses the channel power feature of the spectrum analyzer to integrate the power of the emission within a 1 MHz bandwidth.

Where the radio test software does not provide for a duty cycle at continuous transmit conditions (> 98%) and the RMS (power average) measurements were made across the on and off times of the EUT transmissions, a duty cycle correction is added to the measurements using the formula of 10*log(1/dc).

TEST EQUIPMENT

TEOT EQUIT MENT					
Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Double Ridge	ETS Lindgren	3115	AIP	2022-07-20	2024-07-20
Cable	ESM Cable Double Ridge Guide Horn Corp. Cables		MNI	2024-01-08	2025-01-08
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVT	2024-01-08	2025-01-08
Filter - High Pass	Micro-Tronics	HPM50108	LFM	2023-10-11	2024-10-11
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	2024-03-13	2025-03-13
Filter-Low Pass	Micro-Tronics	LPM50003	HGL	2023-09-10	2024-09-10
Pre-amplifier	Miteq	AM-1616-1000	AVO	2023-10-08	2024-10-08
Notch Filter, Tunable	K&L Microwave	3TNF-500/1000-N/N	HGS	2023-06-17	2024-06-17
Antenna, Biconilog	Teseq	CBL6141B	AYD	2024-03-18	2025-03-18
Cable	Element	Biconilog Cable	MNX	2024-01-30	2025-01-30



TEST EQUIPMENT - Prescans

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Filter - Low Pass	Micro-Tronics	LPM50003	HGL	2021-09-10	2022-09-10
Filter - High Pass	Micro-Tronics	HPM50108	HFW	2021-09-10	2022-09-10
Filter - High Pass	Micro-Tronics	HPM50111	HFM	2021-09-10	2022-09-10
Filter - Band Pass/Notch	K&L Microwave	3TNF-500/1000-N/N	HGS	2021-06-28	2022-06-28
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFG	2021-05-18	2022-05-18
Cable	Element	Biconilog Cable	MNX	2022-01-24	2023-01-24
Cable	Element	Double Ridge Guide Horn Cables	MNV	2022-01-24	2023-01-24
Cable	Element	Standard Gain Cable	MNW	2022-01-24	2023-01-24
Antenna - Biconilog	Teseq	CBL 6141B	AYD	2020-02-05	2022-02-05
Attenuator	Coaxicom	3910-20	AXY	2021-09-10	2022-09-10
Attenuator	Coaxicom	3910-10	AWZ	2021-09-10	2022-09-10
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	2022-01-24	2023-01-24
Antenna - Standard Gain	ETS-Lindgren	3160-08	AJP	NCR	NCR
Antenna - Standard Gain	ETS-Lindgren	3160-07	AJJ	NCR	NCR
Antenna - Double Ridge	ETS Lindgren	3115	AIB	2020-09-03	2022-09-03
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2022-01-24	2023-01-24

FREQUENCY RANGE INVESTIGATED

30 MHz TO 18 GHz

POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

MLTI0360-1

MODES INVESTIGATED

Transmitting packets, Low, Mid, and High Channels (903.0, 909.4, and 914.2 MHz



EUT:	RBS304 Panic Button	Work Order:	MLTI0360
Serial Number:	1243133741-0023	Date:	2024-05-15
Customer:	Multi-Tech Systems, Inc.	Temperature:	22.5°C
Attendees:	Aaron Kramer	Relative Humidity:	37.8%
Customer Project:	None	Bar. Pressure (PMSL):	1013 mb
Tested By:	Christopher Heintzelman	Job Site:	MN05
Power:	Battery	Configuration:	MLTI0360-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2024	ANSI C63.10:2013
RSS-247 Issue 3:2023	ANSI C63.10:2013
RSS-Gen Issue Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013

TEST PARAMETERS

Run #:	2	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

Same EUT settings used as MLTI0217. The test mode duty cycle was 25%. A Duty Cycle Correction Factor was applied to average measurements using 10*log(1/duty cycle)=+6.0dB. The test mode duty cycle for this testing was configured differently than the direct connect tests which was confirmed via screen shot.

The average data was taken with a max hold detector as a worst case instead of clear write and trace averaging as stated ANSI C63.10 and then then DCCF was applied. Due to the longer pulse width of the transmit signal (26 ms), the average measurements using max hold appear above the peak measurements.

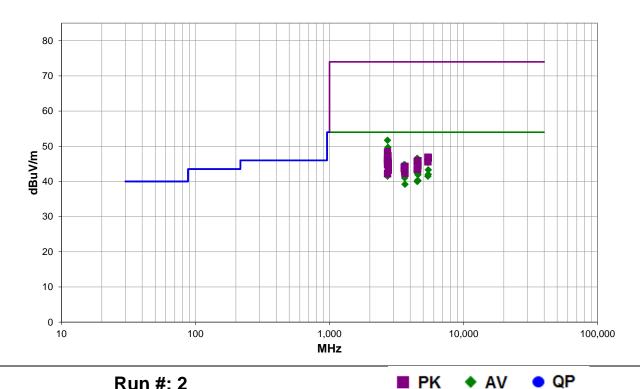
Prescans performed in MN09 on 2022-01-21

EUT OPERATING MODES

Transmitting SRD, Low, Mid, and High Channels (903.0, 909.4, and 914.2 MHz), 500 kHz Channel Bandwidth

DEVIATIONS FROM TEST STANDARD

None





RESULTS - Run #2

### PACK STATE OF STA	RESUL	19 - K	un #Z											
2778.108	Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2708.933	2708.958	48.2	-2.5	4.0	315.9	6.0	0.0	Horz	AV	0.0	51.7	54.0	-2.3	EUT Vert, Low Ch
2782,550	2728.108	46.2	-2.5	1.4	235.0	6.0	0.0	Vert	AV	0.0	49.7	54.0	-4.3	EUT On Side, Mid Ch
2708,875	2708.933	45.1	-2.5	1.3	20.9	6.0	0.0	Horz	AV	0.0	48.6	54.0	-5.4	EUT Horz, Low Ch
2709.087	2728.250	44.7	-2.5	3.8	149.0	6.0	0.0	Horz	AV	0.0	48.2	54.0	-5.8	EUT Vert, Mid Ch
## ## ## ## ## ## ## ## ## ## ## ## ##	2708.975	44.3	-2.5	2.8	16.9	6.0	0.0	Horz	AV	0.0	47.8	54.0	-6.2	EUT On Side, Low Ch
2742.517	2709.067	43.8	-2.5	1.5	210.0	6.0	0.0	Vert	AV	0.0	47.3	54.0	-6.7	EUT On Side, Low Ch
2709.025	4515.075	36.7	3.9	3.8	85.9	6.0	0.0	Horz	AV	0.0	46.6	54.0	-7.4	EUT Vert, Low Ch
Set	2742.517	42.8	-2.5	3.2	335.0	6.0	0.0	Horz	AV	0.0	46.3	54.0	-7.7	EUT Vert, High Ch
3811.825 38.4 0.4 1.1 285.8 6.0 0.0 Vert AV 0.0 44.8 54.0 -9.2 EUT On Side, Low Ch 3656.750 38.1 0.6 4.0 132.9 6.0 0.0 Horz AV 0.0 44.7 54.0 -9.3 EUT Vert, High Ch 3811.883 37.1 0.4 3.5 80.0 6.0 0.0 Horz AV 0.0 43.5 54.0 -10.5 EUT Vert, Low Ch 5456.308 30.8 6.5 1.5 0.0 6.0 0.0 Horz AV 0.0 43.3 54.0 -10.5 EUT Vert, Low Ch 5466.008 30.0 2.25 1.5 27.9 6.0 0.0 Vert AV 0.0 42.5 54.0 -11.5 EUT Vert, Mid Ch 446.067 32.2 4.1 1.1 311.9 6.0 0.0 Horz AV 0.0 42.3 54.0 -11.7 EUT Vert, Mid Ch 4566.333 26.5 6.5 1.9 58.9 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT Vert, Mid Ch 5466.333 26.5 6.5 1.9 58.9 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT Vert, Mid Ch 5470.833 31.8 4.1 3.7 102.9 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT Vert, High Ch 4571.033 31.8 4.1 3.7 102.9 6.0 0.0 Vert AV 0.0 41.8 54.0 -12.0 EUT Vert, High Ch 4571.033 31.8 4.1 3.7 102.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.976 30.1 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 41.0 54.0 -12.5 EUT On Side, Low Ch 4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -12.5 EUT On Side, Low Ch 4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -12.5 EUT On Side, Low Ch 4546.975 30.1 3.1 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 EUT Vert, Mid Ch 4546.975 30.1 3.3 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 EUT On Side, Low Ch 4540.975 40.6 3.1 4.1 4.1 25.0 0.0 0.0 Vert AV 0.0 46	2709.025	41.9	-2.5	1.6	354.0	6.0	0.0	Vert	AV	0.0	45.4	54.0	-8.6	EUT Vert, Low Ch
\$666,750 \$38.1 \$0.6 \$4.0 \$132.9 \$6.0 \$0.0 \$Horz \$AV \$0.0 \$44.7 \$54.0 \$-9.3 \$EUT Vert, High Ch \$3611,983 \$37.1 \$0.4 \$3.5 \$80.0 \$6.0 \$0.0 \$Horz \$AV \$0.0 \$43.5 \$54.0 \$-10.5 \$EUT Vert, Low Ch \$4565,038 \$30.8 \$6.5 \$1.5 \$0.0 \$6.0 \$0.0 \$Horz \$AV \$0.0 \$43.3 \$54.0 \$-10.7 \$EUT Vert, Mid Ch \$4565,038 \$30.8 \$6.5 \$1.5 \$27.9 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$42.5 \$54.0 \$-11.7 \$EUT On Side, High Ch \$4546,967 \$32.2 \$4.1 \$1.1 \$311.9 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$42.3 \$54.0 \$-11.7 \$EUT Vert, Mid Ch \$4546,967 \$32.2 \$4.1 \$1.1 \$311.9 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$42.3 \$54.0 \$-11.7 \$EUT On Side, Mid Ch \$4565,333 \$25.5 \$6.5 \$1.9 \$59.9 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$42.3 \$54.0 \$-11.7 \$EUT On Side, Mid Ch \$4571,083 \$31.8 \$4.1 \$3.7 \$102.9 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$42.0 \$54.0 \$-12.0 \$EUT On Side, Mid Ch \$4571,083 \$31.8 \$4.1 \$3.7 \$102.9 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$41.9 \$54.0 \$-12.5 \$EUT Vert, High Ch \$4546,975 \$30.2 \$2.5 \$1.5 \$27.9 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$41.5 \$54.0 \$-12.5 \$EUT Horz, Low Ch \$4546,975 \$30.2 \$4.1 \$1.5 \$80.0 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$41.5 \$54.0 \$-12.5 \$EUT Horz, Low Ch \$4546,975 \$30.1 \$3.9 \$1.5 \$216.0 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$40.3 \$54.0 \$-13.0 \$EUT Vert, Mid Ch \$4546,975 \$30.1 \$3.9 \$1.5 \$216.0 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$40.3 \$54.0 \$-13.0 \$EUT Vert, Mid Ch \$4546,975 \$30.1 \$3.9 \$1.5 \$216.0 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$40.3 \$54.0 \$-13.0 \$EUT Vert, Mid Ch \$4546,975 \$30.1 \$3.9 \$1.5 \$216.0 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$40.3 \$54.0 \$-13.8 \$EUT On Side, Mid Ch \$4546,975 \$30.1 \$3.9 \$1.5 \$216.0 \$6.0 \$0.0 \$Vert \$AV \$0.0 \$46.0 \$74.0 \$27.6 \$EUT Vert, Low Ch \$4549,975 \$30.1 \$3.9 \$1.5 \$216.0 \$6.0 \$0.0 \$Vert \$AV	5418.017	33.1	6.3	1.4	267.0	6.0	0.0	Horz	AV	0.0	45.4	54.0	-8.6	EUT Vert, Low Ch
3811983 37.1 0.4 3.5 80.0 6.0 0.0 Horz AV 0.0 43.5 54.0 -10.5 EUT Vert, Low Ch 5456.308 30.8 6.5 1.5 0.0 6.0 0.0 Horz AV 0.0 43.5 54.0 -10.7 EUT Vert, Mid Ch 2742.650 39.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 42.5 54.0 -11.5 EUT On Side, High Ch 4546.967 32.2 4.1 1.1 311.9 6.0 0.0 Horz AV 0.0 42.3 54.0 -11.7 EUT Vert, Mid Ch 5456.333 36.7 0.6 1.2 84.0 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT On Side, Mid Ch 5456.333 20.5 6.5 1.9 59.9 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT On Side, Mid Ch 4571.083 31.8 4.1 3.7 102.9 6.0 0.0 Vert AV 0.0 42.0 54.0 -12.0 EUT On Side, Mid Ch 4571.083 31.8 4.1 3.7 102.9 6.0 0.0 Vert AV 0.0 41.9 54.0 -12.1 EUT Vert, High Ch 2708.983 38.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 4566.373 34.4 0.6 2.5 157.9 6.0 0.0 Horz AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 4566.375 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 41.5 54.0 -13.0 EUT Vert, High Ch 4546.975 30.2 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 41.5 54.0 -13.0 EUT On Side, Low Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Low Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Mid Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -13.8 EUT On Side, Low Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -13.8 EUT On Side, High Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -13.8 EUT On Side, High Ch 4570.308 30.1 4.1 2.5 10.0 Side, High Ch 4570.308 30.1 4.1 3.5 10.0 Side, High Ch 4570.308 30.1 4.1 3.5 10.0 Side, High Ch 4570.0 Side, High Ch 4570.308 30.1 4.1 3.5 10.0 Side, High Ch 4570.0 Side, High Ch 4570.308 30.1 4.1 3.5 10.0 Side, High Ch 4570.0 Side,	3611.925	38.4	0.4	1.1	265.9	6.0	0.0	Vert	AV	0.0	44.8	54.0	-9.2	EUT On Side, Low Ch
5456:308 30.8 6.5 1.5 0.0 6.0 0.0 Horz AV 0.0 43.3 54.0 -10.7 EUT Vert, Mid Ch 2742:650 39.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 42.5 54.0 -11.5 EUT On Side, High Ch 4546-987 32.2 4.1 1.1 311.9 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT On Side, Mid Ch 5466.333 29.5 6.5 1.9 59.9 6.0 0.0 Vert AV 0.0 42.0 54.0 -12.0 EUT On Side, Mid Ch 4570.833 31.8 4.1 3.7 102.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 5418.950 29.2 6.3 2.5 15.7 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Mid Ch	3656.750	38.1	0.6	4.0	132.9	6.0	0.0	Horz	AV	0.0	44.7	54.0	-9.3	EUT Vert, High Ch
2742,660 39.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 42.5 54.0 -11.5 EUT On Side, High Ch 4546,967 32.2 4.1 1.1 311.9 6.0 0.0 Horz AV 0.0 42.3 54.0 -11.7 EUT Vert, Mid Ch 3637,833 35.7 0.6 12 84.0 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT Vert, Mid Ch 5466,333 29.5 6.5 1.9 59.9 6.0 0.0 Vert AV 0.0 42.0 54.0 -12.0 EUT On Side, Mid Ch 4571,083 31.8 4.1 3.7 102.9 6.0 0.0 Horz AV 0.0 41.9 54.0 -12.1 EUT Vert, High Ch 2708,993 38.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418,950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 4546,975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Mid Ch 4571,038 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.0 EUT Vert, Mid Ch 4574,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, High Ch 4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -14.0 EUT On Side, High Ch 4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -14.0 EUT On Side, High Ch 4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -14.0 EUT On Side, High Ch 4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 49.2 54.0 -14.8 EUT On Side, High Ch 4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 49.2 54.0 -14.0 EUT On Side, High Ch 4514,975 30.1 3.9 3.5 3.5 0.0 0.0 Vert AV 0.0 46.8 74.0 -25.6 EUT Vert, Low Ch 2778,775 49.8 -2.5 1.4 235.0 0.0 0.0 Vert AV 0.0 46.8 74.0 -25.6 EUT Vert, Low Ch 2778,975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert PK 0.0 46.5 74.0 -27.5 EUT On Side, Lioh Ch 2708,633 49.0 -2.5 3.8 149.0 0.0	3611.983	37.1	0.4	3.5	80.0	6.0	0.0	Horz	AV	0.0	43.5	54.0	-10.5	EUT Vert, Low Ch
4546,967 32.2 4.1 1.1 311.9 6.0 0.0 Horz AV 0.0 42.3 54.0 -11.7 EUT Vert, Mid Ch 3637,583 35.7 0.6 1.2 84.0 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT On Side, Mid Ch 5456,333 29.5 6.5 1.9 59.9 6.0 0.0 Vert AV 0.0 42.0 54.0 -12.0 EUT On Side, Mid Ch 4571,083 31.8 4.1 3.7 102.9 6.0 0.0 Horz AV 0.0 41.9 54.0 -12.1 EUT Vert, High Ch 2705,983 38.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418,950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 4576,038 31.4 1.1 1.5 80.0 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 4576,975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Mid Ch 4570,308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.8 EUT On Side, High Ch 4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -13.8 EUT On Side, High Ch 4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 EUT On Side, Low Ch 3656,675 32.6 0.6 1.5 149.9 6.0 0.0 Vert AV 0.0 48.4 74.0 -25.6 EUT Vert, Low Ch 2727,975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert AV 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 5474,225 40.6 6.3 1.4 267.0 0.0 0.0 Vert PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 5475,222 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 5475,222 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 5475,225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 5475,225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.1 EUT Vert, Low Ch 5475,225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Mid Ch 5475,225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 5472,225 30.3 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 5472,225 30.3 6.3 2.6 153.9 0.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 5472,225 30.3 6.3 2.6 153.9 0.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -27.4 EUT Vert, Mid Ch 5472,225 30.3 6.3 2.6 153.9 0.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 5420,425 39.3 6.3 2.6 153.9 0.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EU	5456.308	30.8	6.5	1.5	0.0	6.0	0.0	Horz	AV	0.0	43.3	54.0	-10.7	EUT Vert, Mid Ch
3637.583 35.7 0.6 1.2 84.0 6.0 0.0 Vert AV 0.0 42.3 54.0 -11.7 EUT On Side, Mid Ch 5456.333 29.5 6.5 1.9 69.9 6.0 0.0 Vert AV 0.0 42.0 54.0 -12.0 EUT On Side, Mid Ch 4571.083 31.8 4.1 3.7 102.9 6.0 0.0 Horz AV 0.0 41.9 54.0 -12.1 EUT Vert, High Ch 2708.983 38.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 41.0 54.0 -13.0 EUT Vert, Mid Ch 4546.975 30.2 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.5 EUT On Side, High Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -13.8 EUT On Side, High Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.8 EUT On Side, High Ch 4517.492 40.6 6.3 1.4 235.0 0.0 0.0 Vert AV 0.0 48.4 74.0 -25.6 EUT Vert, Low Ch 2727.975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert AV 0.0 46.8 74.0 -26.6 EUT Vert, Low Ch 5457.225 40.3 6.5 1.9 99.9 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 5457.225 40.3 6.5 1.9 99.9 0.0 0.0 Vert PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 5457.225 40.3 6.5 1.9 99.9 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.1 EUT Vert, Low Ch 5457.225 40.3 6.5 1.9 99.9 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.1 EUT Vert, Low Ch 5457.225 40.3 6.5 1.9 99.9 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch 5457.225 40.3 6.5 1.9 99.9 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.5 EUT On Side, Mid Ch 5457.225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.5 EUT On Side, Mid Ch 5457.225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.5 EUT On Side, Mid Ch 5457.225 40.3 6.5 1.9 99.9 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.5 EUT On Side, Low Ch 5457.225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.5 EUT On Side, Low Ch 5457.225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.5 EUT On Side, Low Ch 5457.225 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.8 EUT Vert, Mid Ch 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -27.8 EUT Vert, Mid Ch 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -27.8 EUT Vert, Mid Ch 6.5 1.5 0.0 0.0 0.0 Horz PK 0	2742.650	39.0	-2.5	1.5	27.9	6.0	0.0	Vert	AV	0.0	42.5	54.0	-11.5	EUT On Side, High Ch
5456.333 29.5 6.5 1.9 59.9 6.0 0.0 Vert AV 0.0 42.0 54.0 -12.0 EUT On Side, Mid Ch 4571.083 31.8 4.1 3.7 102.9 6.0 0.0 Horz AV 0.0 41.9 54.0 -12.1 EUT Vert, High Ch 2708.983 38.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Horz AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 3637.658 34.4 0.6 2.5 157.9 6.0 0.0 Hort AV 0.0 41.0 54.0 -13.7 EUT On Side, Mid Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, Mid Ch	4546.967	32.2	4.1	1.1	311.9	6.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	EUT Vert, Mid Ch
4571.083 31.8 4.1 3.7 102.9 6.0 0.0 Horz AV 0.0 41.9 54.0 -12.1 EUT Vert, High Ch 2708.983 38.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 3637.658 34.4 0.6 2.5 157.9 6.0 0.0 Horz AV 0.0 41.0 54.0 -13.0 EUT Vert, Mid Ch 4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Mid Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, High Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, High Ch 2708.775 50.9 2.5 4.0 315.9 0.0 0.0 Horz AV 0.0 39.2 54.0 -14.8 EUT On Side, High Ch 2708.775 49.8 -2.5 1.4 235.0 0.0 0.0 Vert AV 0.0 46.8 74.0 -25.6 EUT Vert, Low Ch 247.422 40.6 6.3 1.4 267.0 0.0 0.0 Vert AV 0.0 46.8 74.0 -25.7 EUT On Side, Mid Ch 5455.292 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch 2708.533 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.2 EUT On Side, Mid Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Mid Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Mid Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Mid Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 45.5 74.0 -27.5 EUT On Side, Low Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 45.5 74.0 -27.5 EUT On Side, Low Ch 2708.533 49.0 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 45.5 74.0 -28.4 EUT Vert, Mid Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.	3637.583	35.7	0.6	1.2	84.0	6.0	0.0	Vert	AV	0.0	42.3	54.0	-11.7	EUT On Side, Mid Ch
2708.983 38.0 -2.5 1.5 27.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT Horz, Low Ch 5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 3637.658 34.4 0.6 2.5 157.9 6.0 0.0 Horz AV 0.0 41.0 54.0 -13.0 EUT Vert, Mid Ch 4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Mid Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, Mid Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.8 EUT On Side, Mid Ch <	5456.333	29.5	6.5	1.9	59.9	6.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	EUT On Side, Mid Ch
5418.950 29.2 6.3 2.6 153.9 6.0 0.0 Vert AV 0.0 41.5 54.0 -12.5 EUT On Side, Low Ch 3637.658 34.4 0.6 2.5 157.9 6.0 0.0 Horz AV 0.0 41.0 54.0 -13.0 EUT Vert, Mid Ch 4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Mid Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, High Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.8 EUT On Side, High Ch 2708.775 50.9 -2.5 4.0 315.9 0.0 0.0 Horz PK 0.0 48.4 74.0 -26.7 EUT On Side, Mid Ch	4571.083	31.8	4.1	3.7	102.9	6.0	0.0	Horz	AV	0.0	41.9	54.0	-12.1	EUT Vert, High Ch
3637.658 34.4 0.6 2.5 157.9 6.0 0.0 Horz AV 0.0 41.0 54.0 -13.0 EUT Vert, Mid Ch 4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Mid Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, High Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 EUT On Side, Low Ch 3656.675 32.6 0.6 1.5 149.9 6.0 0.0 Vert AV 0.0 39.2 54.0 -14.8 EUT On Side, High Ch 2708.775 50.9 -2.5 4.0 315.9 0.0 0.0 Horz PK 0.0 48.4 74.0 -25.6 EUT Vert, Low Ch 5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Vert PK 0.0 46.9 74.0 -27.1 EUT Vert, Low Ch 5452.92 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch 5452.92 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.4 EUT Vert, Mid Ch 2708.533 49.0 -2.5 2.8 16.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -27.5 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Mid Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Mid Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Mid Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.8 EUT Vert, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.8 EUT Vert, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.8 EUT Vert, Low Ch	2708.983	38.0	-2.5	1.5	27.9	6.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	EUT Horz, Low Ch
4546.975 30.2 4.1 1.5 80.0 6.0 0.0 Vert AV 0.0 40.3 54.0 -13.7 EUT On Side, Mid Ch 4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, High Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 EUT On Side, Low Ch 2708.775 50.9 -2.5 4.0 315.9 0.0 0.0 Horz PK 0.0 48.4 74.0 -25.6 EUT Vert, Low Ch 2727.975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert PK 0.0 48.4 74.0 -26.7 EUT On Side, Mid Ch 5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Horz PK 0.0 46.9 74.0 -27.1 EUT Vert, Low Ch	5418.950	29.2	6.3	2.6	153.9	6.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	EUT On Side, Low Ch
4570.308 30.1 4.1 1.5 199.0 6.0 0.0 Vert AV 0.0 40.2 54.0 -13.8 EUT On Side, High Ch 4514.975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 EUT On Side, Low Ch 3656.675 32.6 0.6 1.5 149.9 6.0 0.0 Vert AV 0.0 39.2 54.0 -14.8 EUT On Side, Low Ch 2708.775 50.9 -2.5 4.0 315.9 0.0 0.0 Horz PK 0.0 48.4 74.0 -25.6 EUT Vort, Low Ch 2727.975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert PK 0.0 46.9 74.0 -26.7 EUT On Side, Mid Ch 5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Vert PK 0.0 46.8 74.0 -27.1 EUT Vert, Low Ch	3637.658	34.4	0.6	2.5	157.9	6.0	0.0	Horz	AV	0.0	41.0	54.0	-13.0	EUT Vert, Mid Ch
4514,975 30.1 3.9 1.5 216.0 6.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 EUT On Side, Low Ch 3656.675 32.6 0.6 1.5 149.9 6.0 0.0 Vert AV 0.0 39.2 54.0 -14.8 EUT On Side, High Ch 2708.775 50.9 -2.5 4.0 315.9 0.0 0.0 Vert PK 0.0 48.4 74.0 -25.6 EUT Vert, Low Ch 2727.975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert PK 0.0 47.3 74.0 -26.7 EUT On Side, Mid Ch 5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Horz PK 0.0 46.9 74.0 -27.1 EUT On Side, Mid Ch 5457.425 40.3 6.5 1.9 59.9 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch	4546.975	30.2	4.1	1.5	80.0	6.0	0.0	Vert	AV	0.0	40.3	54.0	-13.7	EUT On Side, Mid Ch
3656.675 32.6 0.6 1.5 149.9 6.0 0.0 Vert AV 0.0 39.2 54.0 -14.8 EUT On Side, High Ch 2708.775 50.9 -2.5 4.0 315.9 0.0 0.0 Horz PK 0.0 48.4 74.0 -25.6 EUT Vert, Low Ch 2727.975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert PK 0.0 47.3 74.0 -26.7 EUT On Side, Mid Ch 5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Horz PK 0.0 46.9 74.0 -27.1 EUT Vert, Low Ch 5457.425 40.3 6.5 1.9 59.9 0.0 0.0 Horz PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch 5455.292 40.1 6.5 1.5 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 2708.64	4570.308	30.1	4.1	1.5	199.0	6.0	0.0	Vert	AV	0.0	40.2	54.0	-13.8	EUT On Side, High Ch
2708.775 50.9 -2.5 4.0 315.9 0.0 0.0 Horz PK 0.0 48.4 74.0 -25.6 EUT Vert, Low Ch 2727.975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert PK 0.0 47.3 74.0 -26.7 EUT On Side, Mid Ch 5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Horz PK 0.0 46.9 74.0 -27.1 EUT Vert, Low Ch 5457.425 40.3 6.5 1.9 59.9 0.0 0.0 Vert PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch 5455.292 40.1 6.5 1.5 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 2709.642 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 278.575<	4514.975	30.1	3.9	1.5	216.0	6.0	0.0	Vert	AV	0.0	40.0	54.0	-14.0	EUT On Side, Low Ch
2727.975 49.8 -2.5 1.4 235.0 0.0 0.0 Vert PK 0.0 47.3 74.0 -26.7 EUT On Side, Mid Ch 5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Horz PK 0.0 46.9 74.0 -27.1 EUT Vert, Low Ch 5457.425 40.3 6.5 1.9 59.9 0.0 0.0 Vert PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch 5455.292 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 2708.642 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2708.533 49.0 -2.5 2.8 16.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch <t< td=""><td>3656.675</td><td>32.6</td><td>0.6</td><td>1.5</td><td>149.9</td><td>6.0</td><td>0.0</td><td>Vert</td><td>AV</td><td>0.0</td><td>39.2</td><td>54.0</td><td>-14.8</td><td>EUT On Side, High Ch</td></t<>	3656.675	32.6	0.6	1.5	149.9	6.0	0.0	Vert	AV	0.0	39.2	54.0	-14.8	EUT On Side, High Ch
5417.492 40.6 6.3 1.4 267.0 0.0 0.0 Horz PK 0.0 46.9 74.0 -27.1 EUT Vert, Low Ch 5457.425 40.3 6.5 1.9 59.9 0.0 0.0 Vert PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch 5455.292 40.1 6.5 1.5 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 2709.642 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT Horz, Low Ch 2708.533 49.0 -2.5 2.8 16.9 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 Horz PK 0.0 46.2 74.0 -27.8 EUT Vert, Mid Ch 4571.200 41.8 4.1 <td>2708.775</td> <td>50.9</td> <td>-2.5</td> <td>4.0</td> <td>315.9</td> <td>0.0</td> <td>0.0</td> <td>Horz</td> <td>PK</td> <td>0.0</td> <td>48.4</td> <td>74.0</td> <td>-25.6</td> <td>EUT Vert, Low Ch</td>	2708.775	50.9	-2.5	4.0	315.9	0.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	EUT Vert, Low Ch
5457.425 40.3 6.5 1.9 59.9 0.0 0.0 Vert PK 0.0 46.8 74.0 -27.2 EUT On Side, Mid Ch 5455.292 40.1 6.5 1.5 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 2709.642 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT Horz, Low Ch 2708.533 49.0 -2.5 2.8 16.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.2 74.0 -27.8 EUT Vert, Mid Ch 4571.200 41.8 4.1 3.7 102.9 0.0 0.0 Horz PK 0.0 45.9 74.0 -28.1 EUT Vert, High Ch 2709.383 <td>2727.975</td> <td>49.8</td> <td>-2.5</td> <td>1.4</td> <td>235.0</td> <td>0.0</td> <td>0.0</td> <td>Vert</td> <td>PK</td> <td>0.0</td> <td>47.3</td> <td>74.0</td> <td>-26.7</td> <td>EUT On Side, Mid Ch</td>	2727.975	49.8	-2.5	1.4	235.0	0.0	0.0	Vert	PK	0.0	47.3	74.0	-26.7	EUT On Side, Mid Ch
5455.292 40.1 6.5 1.5 0.0 0.0 0.0 Horz PK 0.0 46.6 74.0 -27.4 EUT Vert, Mid Ch 2709.642 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT Horz, Low Ch 2708.533 49.0 -2.5 2.8 16.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.2 74.0 -27.8 EUT Vert, Mid Ch 4571.200 41.8 4.1 3.7 102.9 0.0 0.0 Horz PK 0.0 45.9 74.0 -28.1 EUT Vert, High Ch 2709.383 48.1 -2.5 1.5 210.0 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch	5417.492	40.6	6.3	1.4	267.0	0.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	EUT Vert, Low Ch
2709.642 49.0 -2.5 1.3 20.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT Horz, Low Ch 2708.533 49.0 -2.5 2.8 16.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.2 74.0 -27.8 EUT Vert, Mid Ch 4571.200 41.8 4.1 3.7 102.9 0.0 0.0 Horz PK 0.0 45.9 74.0 -28.1 EUT Vert, High Ch 2709.383 48.1 -2.5 1.5 210.0 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 5420.425 39.3 6.3 2.6 153.9 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch	5457.425	40.3	6.5	1.9	59.9	0.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	EUT On Side, Mid Ch
2708.533 49.0 -2.5 2.8 16.9 0.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, Low Ch 2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.2 74.0 -27.8 EUT Vert, Mid Ch 4571.200 41.8 4.1 3.7 102.9 0.0 0.0 Horz PK 0.0 45.9 74.0 -28.1 EUT Vert, High Ch 2709.383 48.1 -2.5 1.5 210.0 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 5420.425 39.3 6.3 2.6 153.9 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch <	5455.292	40.1	6.5	1.5	0.0	0.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	EUT Vert, Mid Ch
2728.575 48.7 -2.5 3.8 149.0 0.0 0.0 Horz PK 0.0 46.2 74.0 -27.8 EUT Vert, Mid Ch 4571.200 41.8 4.1 3.7 102.9 0.0 0.0 Horz PK 0.0 45.9 74.0 -28.1 EUT Vert, High Ch 2709.383 48.1 -2.5 1.5 210.0 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 5420.425 39.3 6.3 2.6 153.9 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.2 74.0 -28.8 EUT Vert, High Ch 2708.958 47.3 -2.5 1.6 354.0 0.0 0.0 Ver	2709.642	49.0	-2.5	1.3	20.9	0.0	0.0	Horz	PK	0.0	46.5	74.0	-27.5	EUT Horz, Low Ch
4571.200 41.8 4.1 3.7 102.9 0.0 0.0 Horz PK 0.0 45.9 74.0 -28.1 EUT Vert, High Ch 2709.383 48.1 -2.5 1.5 210.0 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 5420.425 39.3 6.3 2.6 153.9 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.2 74.0 -28.8 EUT Vert, High Ch 2708.958 47.3 -2.5 1.6 354.0 0.0 0.0 Vert PK 0.0 44.8 74.0 -29.2 EUT Vert, Low Ch <td>2708.533</td> <td>49.0</td> <td>-2.5</td> <td>2.8</td> <td>16.9</td> <td>0.0</td> <td>0.0</td> <td>Horz</td> <td>PK</td> <td>0.0</td> <td>46.5</td> <td>74.0</td> <td>-27.5</td> <td>EUT On Side, Low Ch</td>	2708.533	49.0	-2.5	2.8	16.9	0.0	0.0	Horz	PK	0.0	46.5	74.0	-27.5	EUT On Side, Low Ch
2709.383 48.1 -2.5 1.5 210.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 5420.425 39.3 6.3 2.6 153.9 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.2 74.0 -28.8 EUT Vert, High Ch 2708.958 47.3 -2.5 1.6 354.0 0.0 0.0 Vert PK 0.0 44.8 74.0 -29.2 EUT Vert, Low Ch	2728.575	48.7	-2.5	3.8	149.0	0.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	EUT Vert, Mid Ch
5420.425 39.3 6.3 2.6 153.9 0.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT On Side, Low Ch 4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.2 74.0 -28.8 EUT Vert, High Ch 2708.958 47.3 -2.5 1.6 354.0 0.0 0.0 Vert PK 0.0 44.8 74.0 -29.2 EUT Vert, Low Ch	4571.200	41.8	4.1	3.7	102.9	0.0	0.0	Horz	PK	0.0	45.9	74.0	-28.1	EUT Vert, High Ch
4514.833 41.7 3.9 3.8 85.9 0.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Vert, Low Ch 2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.2 74.0 -28.8 EUT Vert, High Ch 2708.958 47.3 -2.5 1.6 354.0 0.0 0.0 Vert PK 0.0 44.8 74.0 -29.2 EUT Vert, Low Ch	2709.383	48.1	-2.5	1.5	210.0	0.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	EUT On Side, Low Ch
2742.533 47.7 -2.5 3.2 335.0 0.0 0.0 Horz PK 0.0 45.2 74.0 -28.8 EUT Vert, High Ch 2708.958 47.3 -2.5 1.6 354.0 0.0 0.0 Vert PK 0.0 44.8 74.0 -29.2 EUT Vert, Low Ch	5420.425	39.3	6.3	2.6	153.9	0.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	EUT On Side, Low Ch
2708.958 47.3 -2.5 1.6 354.0 0.0 0.0 Vert PK 0.0 44.8 74.0 -29.2 EUT Vert, Low Ch	4514.833	41.7	3.9	3.8	85.9	0.0	0.0	Horz	PK	0.0	45.6	74.0	-28.4	EUT Vert, Low Ch
	2742.533	47.7	-2.5	3.2	335.0	0.0	0.0	Horz	PK	0.0	45.2	74.0	-28.8	EUT Vert, High Ch
4569.542 40.4 4.1 1.5 199.0 0.0 0.0 Vert PK 0.0 44.5 74.0 -29.5 EUT On Side, High Ch	2708.958	47.3	-2.5	1.6	354.0	0.0	0.0	Vert	PK	0.0	44.8	74.0	-29.2	EUT Vert, Low Ch
	4569.542	40.4	4.1	1.5	199.0	0.0	0.0	Vert	PK	0.0	44.5	74.0	-29.5	EUT On Side, High Ch



Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4549.125	40.3	4.1	1.1	311.9	0.0	0.0	Horz	PK	0.0	44.4	74.0	-29.6	EUT Vert, Mid Ch
3657.292	43.7	0.6	4.0	132.9	0.0	0.0	Horz	PK	0.0	44.3	74.0	-29.7	EUT Vert, High Ch
3612.733	43.7	0.4	1.1	265.9	0.0	0.0	Vert	PK	0.0	44.1	74.0	-29.9	EUT On Side, Low Ch
3612.558	43.2	0.4	3.5	80.0	0.0	0.0	Horz	PK	0.0	43.6	74.0	-30.4	EUT Vert, Low Ch
3637.283	42.9	0.6	1.2	84.0	0.0	0.0	Vert	PK	0.0	43.5	74.0	-30.5	EUT On Side, Mid Ch
4547.392	39.4	4.1	1.5	80.0	0.0	0.0	Vert	PK	0.0	43.5	74.0	-30.5	EUT On Side, Mid Ch
4516.358	39.5	3.9	1.5	216.0	0.0	0.0	Vert	PK	0.0	43.4	74.0	-30.6	EUT On Side, Low Ch
2742.783	45.7	-2.5	1.5	27.9	0.0	0.0	Vert	PK	0.0	43.2	74.0	-30.8	EUT On Side, High Ch
3638.633	42.3	0.6	2.5	157.9	0.0	0.0	Horz	PK	0.0	42.9	74.0	-31.1	EUT Vert, Mid Ch
3656.592	41.7	0.6	1.5	149.9	0.0	0.0	Vert	PK	0.0	42.3	74.0	-31.7	EUT On Side, High Ch
2709.942	44.7	-2.5	1.5	27.9	0.0	0.0	Vert	PK	0.0	42.2	74.0	-31.8	EUT Horz, Low Ch

CONCLUSION

Pass

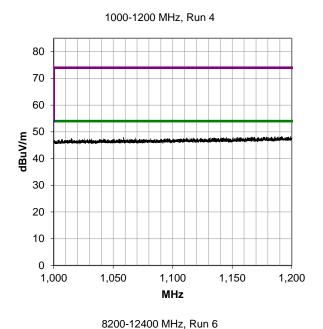
Clother Houten
Tested By

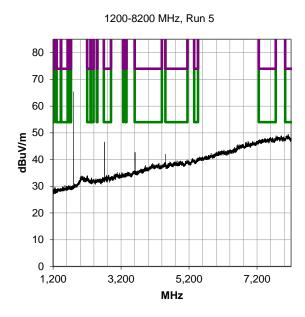


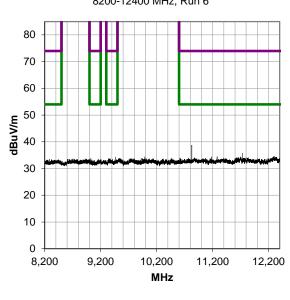
PRESCAN DATA

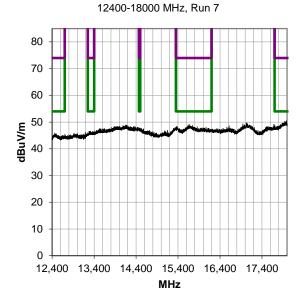
Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.

These prescans were also referenced in MLTI0360.0

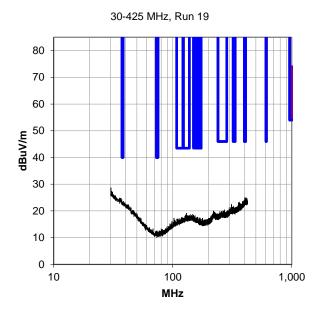


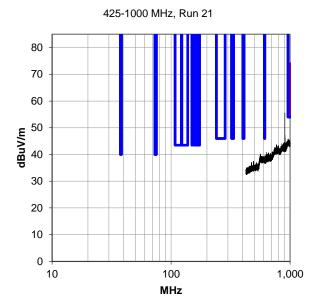














XMit 2020 12 30 0

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	N5171B (EXG)	TEY	2019-12-31	2022-12-31
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2021-04-16	2022-04-16
Block - DC	Fairview Microwave	SD3379	AMI	2021-08-13	2022-08-13
Attenuator	Fairview Microwave	18B5W-26	RFY	2021-06-02	2022-06-02
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2021-09-12	2022-09-12

TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

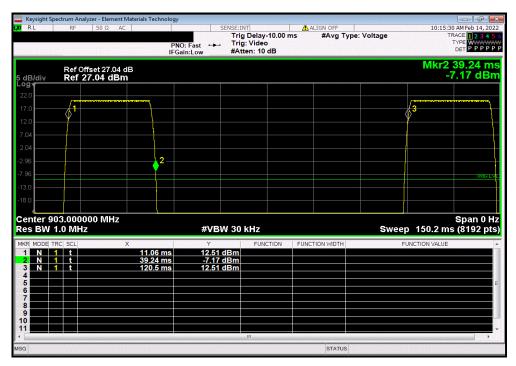
The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

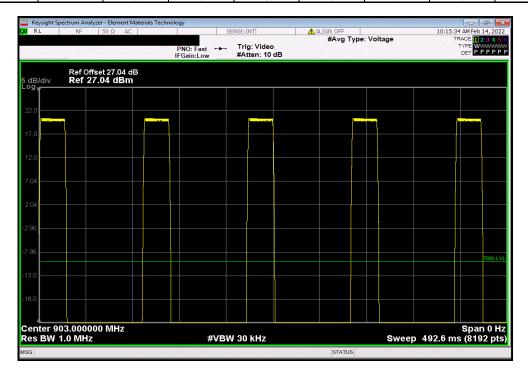


						_			
	: RBS304 Panic Button						Work Order:		
	: 1243133741-0015							14-Feb-22	
	: Multi-Tech Systems, Inc.						Temperature:		
	: Mike Dauk							16.4% RH	
	: None					Baı	ometric Pres.:		
	: Andrew Rogstad		Power	: Battery			Job Site:	MN08	
TEST SPECIFICAT	TIONS			Test Method					
FCC 15.247:2022				ANSI C63.10:2013					
RSS-Gen Issue 5:	2018+A1:2019+A2:2021			ANSI C63.10:2013					
RSS-247 Issue 2:2	2017			ANSI C63.10:2013					
COMMENTS				•					
DEVIATIONS FRO	DM TEST STANDARD	Signature	Cho.	Rogalis	Ŕ				
None		Signature	Over	Rogađav Pulse Width	Period	Number o Pulses	Value (%)	Limit (%)	Results
None Configuration #		Signature	a.						Results
None Configuration #		Signature	O.						Results N/A
None Configuration #	2	Signature	an	Pulse Width	Period		(%)	(%)	
None Configuration #	2 Low Channel, 903.0 MHz	Signature	Chy	Pulse Width 28.176 ms	Period 109.402 ms	Pulses 1	(%) 25.8	(%) N/A	N/A
None	Low Channel, 903.0 MHz Low Channel, 903.0 MHz	Signature	Org	Pulse Width 28.176 ms N/A	Period 109.402 ms N/A	Pulses 1	25.8 N/A	(%) N/A N/A	N/A N/A
None Configuration #	Low Channel, 903.0 MHz Low Channel, 903.0 MHz Mid Channel, 909.4 MHz		Chy	28.176 ms N/A 28.281 ms	Period 109.402 ms N/A 109.509 ms	Pulses 1	25.8 N/A 25.8	(%) N/A N/A N/A	N/A N/A N/A

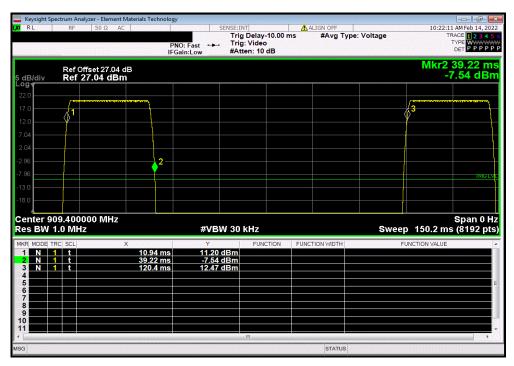




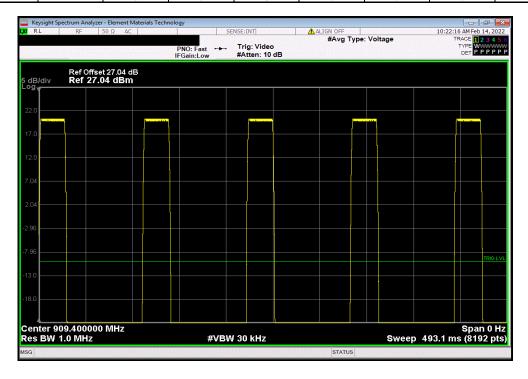
			500k Chani	nel, Low Channel	, 903.0 MHz			
				Number of	Value	Limit		
_		Pulse Width	Period	Pulses	(%)	(%)	Results	
l [·	N/A	N/A	5	N/A	N/A	N/A	



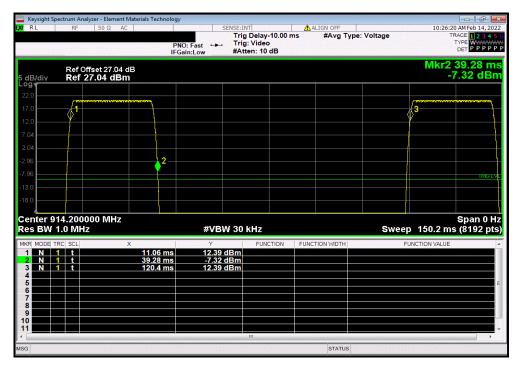




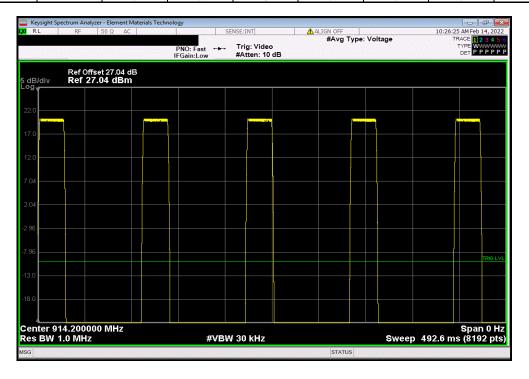
		500k Chani	nel, Mid Channel,	909.4 MHz		
			Number of	Value	Limit	
	 Pulse Width	Period	Pulses	(%)	(%)	Results
i	N/A	N/A	5	N/A	N/A	N/A







		500k Chanr	nel, High Channel	, 914.2 MHz		
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A



OUTPUT POWER



XMit 2020.12.30.

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	N5171B (EXG)	TEY	2019-12-31	2022-12-31
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2021-04-16	2022-04-16
Block - DC	Fairview Microwave	SD3379	AMI	2021-08-13	2022-08-13
Attenuator	Fairview Microwave	18B5W-26	RFY	2021-06-02	2022-06-02
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2021-09-12	2022-09-12

TEST DESCRIPTION

The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

Prior to measuring output power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method AVGSA-2 in section 11.9.2.2.4 of ANSI C63.10:2013 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

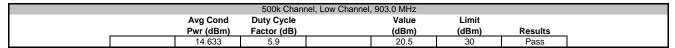
The AVGSA-2 method was modified as the emissions bandwidth (B) was less than the available resolution bandwidth (RBw) of the spectrum analyzer. RBw was set wider than B. This follows the guidance of section 11.9.1.1 and is equivalent to a measurement with a power meter AVGPM per section 11.9.2.3.

OUTPUT POWER



							TbtTx 2021.12.14.	XMit 2020.12.30.0
EUT	: RBS304 Panic Button					Work Order:	MLTI0217	
Serial Number	: 1243133741-0015					Date:	14-Feb-22	
Customer	: Multi-Tech Systems, Inc.					Temperature:	22.2 °C	
Attendees	: Mike Dauk					Humidity:	16.7% RH	
Project	: None					Barometric Pres.:	1028 mbar	
Tested by	: Andrew Rogstad		Power:	Battery		Job Site:	MN08	
TEST SPECIFICAT	TIONS			Test Method				
FCC 15.247:2022				ANSI C63.10:2013				
RSS-Gen Issue 5:	2018+A1:2019+A2:2021			ANSI C63.10:2013				
RSS-247 Issue 2:2	2017			ANSI C63.10:2013				
COMMENTS								
	M TEST STANDARD							
None								
Configuration #	2	Signature	1	Rogerton	P			
	-			Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results
								Results
500k Channel								Results
500k Channel	Low Channel, 903.0 MHz			14.633	5.9	20.5	30	Pass
500k Channel	Low Channel, 903.0 MHz Mid Channel, 909.4 MHz			14.633 14.554	5.9 5.9	20.5 20.5	30 30	







OUTPUT POWER





		500k Chann	el, High Channel	, 914.2 MHz		
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	15.001	5.9		20.9	30	Pass





XMit 2020.12.30.0

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	N5171B (EXG)	TEY	2019-12-31	2022-12-31
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2021-04-16	2022-04-16
Block - DC	Fairview Microwave	SD3379	AMI	2021-08-13	2022-08-13
Attenuator	Fairview Microwave	18B5W-26	RFY	2021-06-02	2022-06-02
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2021-09-12	2022-09-12

TEST DESCRIPTION

The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

Prior to measuring output power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method AVGSA-2 in section 11.9.2.2.4 of ANSI C63.10:2013 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

The AVGSA-2 method was modified as the emissions bandwidth (B) was less than the available resolution bandwidth (RBw) of the spectrum analyzer. RBw was set wider than B. This follows the guidance of section 11.9.1.1 and is equivalent to a measurement with a power meter AVGPM per section 11.9.2.3.

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi)



							IDHX 2021.12.14.1	XMit 2020.1
EUT	: RBS304 Panic Button					Work Order:	MLTI0217	
Serial Number	1243133741-0015						14-Feb-22	
Customer	: Multi-Tech Systems, Inc.					Temperature:	22.2 °C	
Attendees	: Mike Dauk					Humidity:	16.7% RH	
	: None					Barometric Pres.:	1028 mbar	
Tested by	: Andrew Rogstad		Power: Battery			Job Site:	MN08	
ST SPECIFICAT	TIONS		Test Method					
CC 15.247:2022			ANSI C63.10:201	3				
SS-Gen Issue 5:2	2018+A1:2019+A2:2021		ANSI C63.10:201	3				•
SS-247 Issue 2:2	2017		ANSI C63.10:201	3				
OMMENTS								
DEVIATIONS FRO	M TEST STANDARD							
one								
onfiguration #	2	Signature	Wy Rogetal					
				Destes Ossele	A	.,,		
			Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Antenna Gain (dBi)	Value (dBm EIRP)	Limit (dBm EIRP)	Results
0k Channel								Results
0k Channel	Low Channel, 903.0 MHz			Factor (dB)				Results Pass
00k Channel	Mid Channel, 909.4 MHz		Pwr (dBm)	Factor (dB)	(dBi)	(dBm EIRP) 21.33 21.25	(dBm EIRP)	Pass Pass
00k Channel			Pwr (dBm) 14.633	Factor (dB)	(dBi) 0.8	(dBm EIRP) 21.33	(dBm EIRP)	Pass



TbtTx 2021.12.14.1 XMH 2020.12.30.0

		500k Chani	nel, Low Channel,	903.0 MHz		
	Avg Cond	Duty Cycle	Antenna Gain	Value	Limit	
	 Pwr (dBm)	Factor (dB)	(dBi)	(dBm EIRP)	(dBm EIRP)	Results
i	14.633	5.9	0.8	21.33	36	Pass

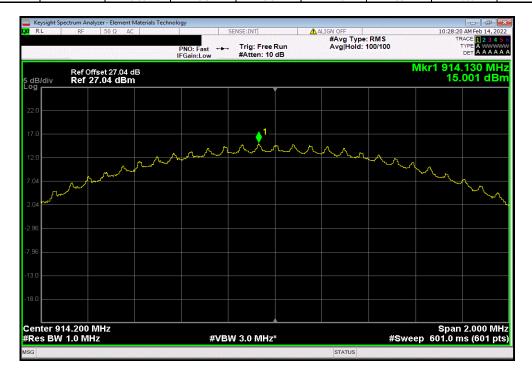




500k Channel, Mid Channel, 909.4 MHz Avg Cond **Duty Cycle** Antenna Gain Value Limit (dBm EIRP) (dBm EIRP) Pwr (dBm) Factor (dB) (dBi) Results 14.554 5.9 0.8 21.25 Pass



500k Channel, High Channel, 914.2 MHz							
	Avg Cond	Duty Cycle	Antenna Gain	Value	Limit		
_		Pwr (dBm)	Factor (dB)	(dBi)	(dBm EIRP)	(dBm EIRP)	Results
l		15.001	5.9	0.8	21.70	36	Pass





XMit 2020.12.30.0

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	N5171B (EXG)	TEY	2019-12-31	2022-12-31 2022-04-16	
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2021-04-16		
Block - DC	Fairview Microwave	SD3379	AMI	2021-08-13	2022-08-13	
Attenuator	Fairview Microwave	18B5W-26	RFY	2021-06-02	2022-06-02	
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2021-09-12	2022-09-12	

TEST DESCRIPTION

The EUT was set to the channels and modes listed in the datasheet.

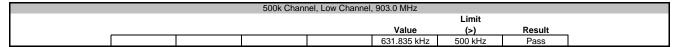
The 6dB DTS bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

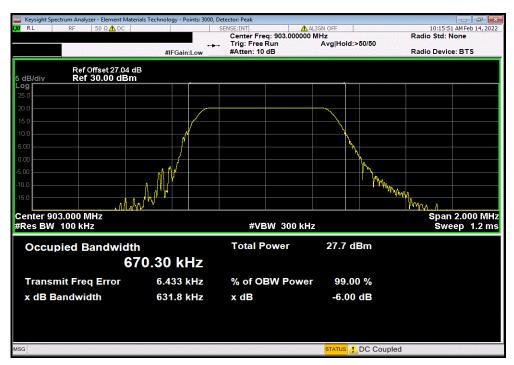


						TbtTx 2021.12.14.1	XMit 2020.12.30
EU	T: RBS304 Panic Button	Work Order:	MLTI0217				
	er: 1243133741-0015	1243133741-0015				14-Feb-22	
Custome	er: Multi-Tech Systems, Inc.	Multi-Tech Systems, Inc.			Temperature:	22.2 °C	
Attendee	s: Mike Dauk				Humidity:		
Projec	None				Barometric Pres.: '	1028 mbar	
	y: Andrew Rogstad		Power:	Battery	Job Site:	MN08	
TEST SPECIFICA	ATIONS			Test Method			
FCC 15.247:2022	2			ANSI C63.10:2013			
RSS-Gen Issue 5:2018+A1:2019+A2:2021 ANSI C63.10:2013							
RSS-247 Issue 2:2017 ANSI C63.10:2013							
COMMENTS							
DEVIATIONS FRO	OM TEST STANDARD						
None							
Configuration #	2		U-10000000	1			
oomigaranon n		Signature	a	Rogertal			
		Signature	a	Rogertan		Limit	
		Signature	Chy	Rogertan	Value	Limit (>)	Result
		Signature	Con	Rogalask	Value		Result
	Low Channel, 903.0 MHz	Signature	Con	Rogertal	Value 631.835 kHz		Result Pass
500k Channel	Low Channel, 903.0 MHz Mid Channel, 909.4 MHz	Signature	Con	Rogertan		(>)	



					TbtTx 2021.12.14.1	XMit 2020.12.30.0
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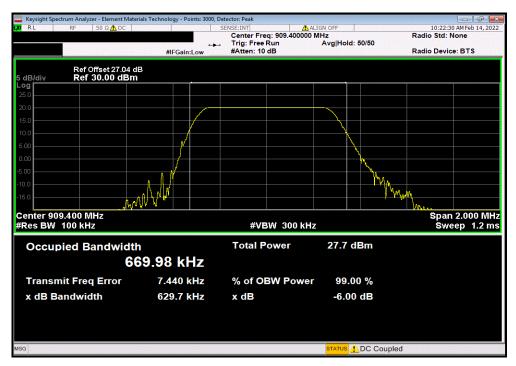


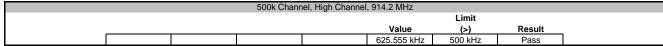
500k Channel, Mid Channel, 909.4 MHz

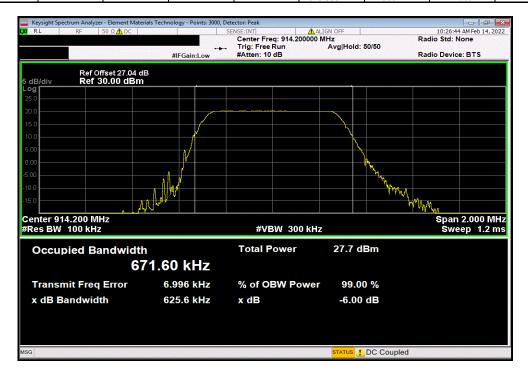
Limit

Value (>) Result

629.697 kHz 500 kHz Pass

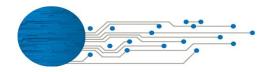








APPENDIX





DATE: June 5, 2024

Attestation for RBS304 reports Project MLTI0360

The project got delayed by other priorities but has been re-activated. The EUT for MLTI0360 reports has not changed since it was tested.

Sincerely,

Name: Tim Gunn

Position: Directory of Technical Engineering Services

Company: Multi-Tech Systems, Inc



End of Test Report