

**COMPLIANCE WORLDWIDE INC.
TEST REPORT 450-19**

In Accordance with the Requirements of
Federal Communications Commission CFR Title 47
Part 15.249, Subpart C

**Innovation, Science and Economic Development Canada
RSS 210, Issue 9**

**Low Power License-Exempt Radio Communication Devices
Intentional Radiators**

Issued to

**Forsythe Technologies Worldwide
23924 Victory Blvd.
Woodland Hills, CA 91367
(818) 710-8694**

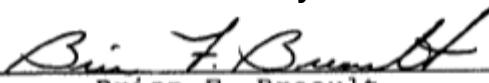
for the

**Rat Telemetry System
Pressure and Temperature Transceiver
Large Module Set**

**FCC ID: 2AC4C-AU430001LGC
IC: 12302A-AU430001LGC**

Report Issued on December 10, 2019

Tested by



Brian F. Breault

Reviewed by



Larry K. Stillings

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1. Scope

This test report certifies that the Rat Telemetry System Pressure and Temperature Transceiver, as tested, meets the FCC Part 15, Subpart C and ISED RSS 210, Issue 9 requirements. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

2. Product Details

2.1. Manufacturer:	Forsythe Technologies Worldwide Inc.
2.2. Model Number:	430001-IMP-LGC
2.3. Serial Number:	N/A
2.4. Description:	Pressure and Temperature Transceiver
2.5. Power Source:	3 volts DC (2 AA batteries) Provided as a replaceable source for product testing. Note: For production units, two 1.55 (3.1 VDC total) volt Silver Oxide batteries will be used.
2.6. Hardware Revision:	None
2.7. Software Revision:	None
2.8. Modulation Type:	---
2.9. Operating Frequency:	915.6 MHz
2.10. EMC Modifications:	None

3. Product Configuration

3.1. EUT Hardware

Manufacturer	Model	Serial Number	Input Volts	Freq (Hz) Or DC	Description/Function
Forsythe Technologies Worldwide	Pressure and Temperature Transceiver	N/A	3.6 nom.	DC	Large module set

3.2. Support Equipment

Device	Manufacturer	Model	Serial No.	Comment
AA Battery Pack	N/A	N/A	N/A	For test only. To provide AA replaceable batteries for ongoing testing

3.3. Cables

Cable Type	Length	Shield	From	To
None				

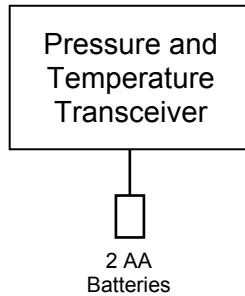
3. Product Configuration (continued)

3.4. Operational Characteristics & Software

Apply 3 VDC to the device under test.

The EUT transmits continuously once the voltage is applied.

3.5. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due	Interval
EMI Test Receiver, 9kHz - 7GHz ¹	Rohde & Schwarz	ESR7	101156	9/10/2020	2 Years
EMI Test Receiver, 10 Hz - 7GHz ¹	Rohde & Schwarz	ESR7	101770	10/3/2020	2 Years
Spectrum Analyzer, 2 Hz to 26.5 GHz ²	Rohde & Schwarz	FSW26	102057	9/13/2020	2 Years
Spectrum Analyzer, 9 kHz to 40 GHz ³	Rohde & Schwarz	FSV40	100899	9/10/2020	2 Years
EMI Receiver 9 kHz - 1 GHz	Hewlett Packard	8546A	3650A00360	9/11/2020	2 Years
Loop Antenna 9 kHz - 30 MHz	EMCO	6512	9309-1139	1/28/2022	3 Years
Biconilog Antenna, 30 MHz - 2 GHz	Sunol Sciences	JB1	A050913	6/5/2021	2 Years
Horn Antenna, 960 MHz to 18 GHz	Electro-Metrics	EM-6961	6337	10/3/2020	2 Years
Horn Antenna, 18 GHz to 40 GHz	Com-Power	AH-840	101032	9/28/2020	2 Years
Preamplifier, 1 GHz to 26.5 GHz	Hewlett Packard	8449B	3008A01323	9/11/2020	2 Years
Digital Barometer	Control Company	4195	ID236	4/3/2020	2 Years
Temperature Chamber	Associated Environmental	SD-308	10782	CNR	

¹ ESR7 Firmware revision: V3.46 SP1, Date installed: 12/22/2018

Previous V3.36 SP2, installed 12/5/2018.

² FSW26 Firmware revision: V4.30 SP1, Date installed: 02/22/2019

Previous V3.36 SP2, installed 10/26/2018.

³ FSV40 Firmware revision: V2.30 SP4, Date installed: 05/04/2016

Previous V2.30 SP1, installed 10/22/2014.

4. Measurements Parameters (continued)

4.2. Software Used to Perform Test

Manufacturer	Software Description	Title or Model #	Rev.	Report Sections
Compliance Worldwide	Test Report Generation Software	Test Report Generator	1.0	Not used for this product.

4.3. Measurement & Equipment Setup

Test Dates:	11/19/2019 - 12/6/2019
Test Engineers:	Sean Defelice, Brian Breault
Normal Site Temperature (15 - 35°C):	21.2
Relative Humidity (20 - 75%RH):	35
Frequency Range:	32 kHz to 10 GHz
Measurement Distance:	3 Meters
EMI Receiver IF Bandwidth:	120 kHz - 30 MHz to 1 GHz 1 MHz - Above 1 GHz
EMI Receiver Average Bandwidth:	300 kHz - 30 MHz to 1 GHz 3 MHz - Above 1 GHz
Detector Function:	Peak, Quasi-Peak & Average

4.4. Measurement Procedure

Test measurements were made in accordance FCC Part 15.249, ISED RSS-210 B.10: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

The test methods used to generate the data in this test report are in accordance with ANSI C63.10: 2013, American National Standard for Testing Unlicensed Wireless Devices.

4.5. Choice of Operating Frequencies

The device under test utilizes a single operating frequency at 915.6 MHz.

4.6. EUT Positions for Emissions Measurements

The device under test was tested in three orthogonal positions in accordance with ANSI C63.10-2013, Section 5.10.1.

5. Measurement Summary

Test Requirement	FCC Requirement	ISED Requirement	Test Section	Result	Comment
Antenna Requirement	15.203	RSS-GEN 6.7	6.1	Compliant	
Radiated Field Strength of Fundamental	15.249 (a),(c)	RSS-210 B.10	6.2	Compliant	
Radiated Field Strength of Harmonics	15.249 (a),(c)	RSS-210 B.10	6.3	Compliant	
Fixed, Point-to-Point Operation	15.249 (b)	N/A	---	Not Required	
Band Edge Measurements	15.249 (d) 15.209	N/A	6.4	Compliant	
Spurious Radiated Emissions	15.249 (d), 15.209	RSS-210 B.10	6.5	Compliant	
Occupied Bandwidth (-20 dB)	ANSI C63.4 § 13.1.7	N/A	6.6	Compliant	
99% Power Bandwidth	N/A	RSS-GEN 6.6	6.7	Compliant	
AC Power Line Conducted Emissions	15.207	RSS-GEN 8.8	---	Not Required	Battery operated device
RF Safety	2.1093 1.1307 (b)(1))	RSS-102 Issue 5	6.8	Compliant	

6. Measurement Data

6.1. Antenna Requirement (Section 15.203, RSS-GEN, Issue 5)

Requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

Result: The unit under test will be installed in a permanent, non-user accessible enclosure.

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6. Measurement Data (continued)

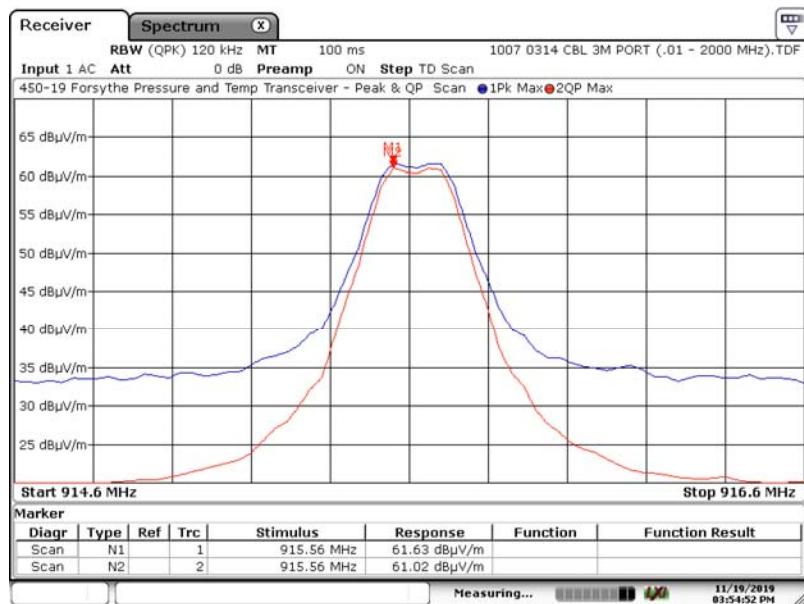
6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c), ISED RSS-210 B.10)

Requirement: The 3 meter field strength of the fundamental emissions from intentional radiators operating within the 902 MHz to 928 MHz frequency band shall comply with the following requirement: 50 millivolts/meter (94 dB μ V/m) Quasi-Peak mode measurement and 500 millivolts/meter (114 dB μ V/m) peak mode measurement.

Frequency (MHz)	Amplitude ¹ (dB μ V/m) at 3 Meters		Limit (dB μ V/m) at 3 Meters		Margin (dB μ V/m) at 3 Meters		Ant Polarity	Ant Height	Turntable Azimuth	Result
	Peak	Quasi-Pk	Peak	Quasi-Pk	Peak	Quasi-Pk				
915.6	61.63	61.02	114.00	94.00	-52.37	-32.98	H	100	114	Compliant

¹ All correction factors are included in measurement values.

6.2.1. Radiated Field Strength of Fundamental, 915.6 MHz (Worst case)



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6. Measurement Data (continued)

6.3. Radiated Field Strength of Harmonics (15.249, Section (a), ISED RSS-210 A.1.4 (d))

Requirement: The 3 meter field strength of the harmonic emissions from intentional radiators operated within the 902 MHz to 928 MHz frequency bands shall comply with the following: 500 microvolts/meter (54 dB μ V/m), average mode measurement. Peak field strength may not be greater than 20 dB above the average limit (74 dB μ V/m).

Test Results : Compliant

Notes: All correction factors are included in the field strength values. The tabled values represent the worst case antenna polarity and orthogonal position of the DUT.

6.3.1. Fundamental Frequency = 915.6 MHz

Freq. (MHz)	Field Strength (dB μ V/m)		Limit (dB μ V/m)		Margin (dB μ V/m)		Antenna Polarity (H/V)	Result
	Peak	Average	Peak	Average	Peak	Average		
1831.2	43.26	31.17	74.00	54.00	-30.74	-22.83	V	Compliant
2746.8	45.76	33.53	74.00	54.00	-28.24	-20.47	H	Compliant
3662.4	46.16	33.54	74.00	54.00	-27.84	-20.46	H	Compliant
4578.0	48.13	35.86	74.00	54.00	-25.87	-18.14	H	Compliant
5493.6	49.50	36.72	74.00	54.00	-24.50	-17.28	H	Compliant
6409.2	50.46	38.24	74.00	54.00	-23.54	-15.76	H	Compliant
7324.8	50.16	38.40	74.00	54.00	-23.84	-15.60	H	Compliant
8240.4	54.17	42.27	74.00	54.00	-19.83	-11.73	H	Compliant
9156.0	56.52	43.68	74.00	54.00	-17.48	-10.32	H	Compliant

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6. Measurement Data (continued)

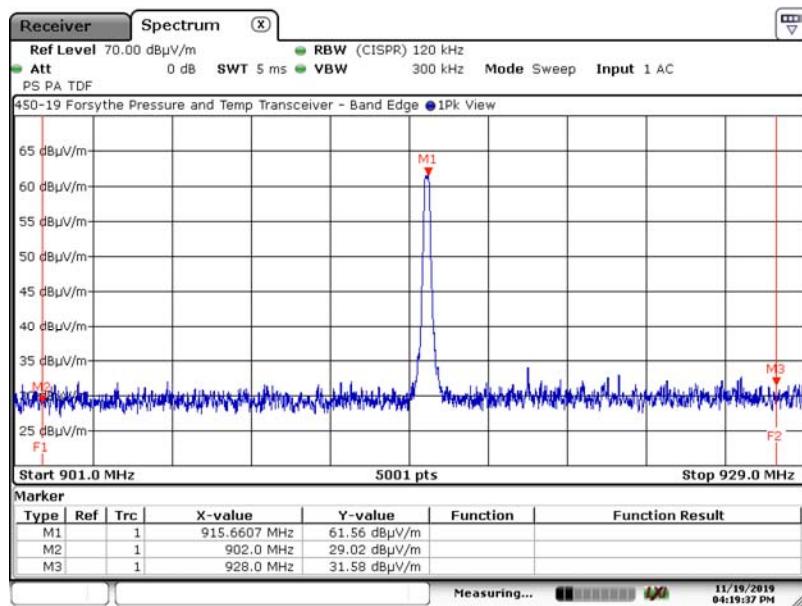
6.4. Band Edge Measurements (15.249, Section (d), ISED RSS-210 A.1.4 (d))

Requirement: Emissions radiated outside of the specified frequency band of 902 to 928 MHz, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Note: The upper and lower band edge peak mode measurements meet the FCC Part 15, Section 15.209 quasi-peak requirement of 46 dB μ V/m.

6.4.1. Band Edge

Freq. (MHz)	Amplitude (dB μ V/m)		Band Edge (dB μ V/m)			Limit (dB μ V/m)	Margin (dB μ V/m)	Result	
	Peak	Quasi Peak	Band Edge	Freq MHz	Peak	Quasi Peak			
915.6	61.56	---	Lower	902	29.02	---	46.00	-16.98	Compliant
			Upper	928	31.58	---	46.00	-14.42	Compliant



6. Measurement Data (continued)

6.5. Spurious Radiated Emissions, 32 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN, Issue 4

Requirement: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Notes: Spurious emissions screen captures are located in Appendix A. The highest amplitude signal in plots A1.3.1, A1.3.2, A2.3.1, A2.3.2, A3.3.1 and A3.3.2 is the intentional radiator at 915.6 MHz and not a spurious emission.

The lowest frequency generated by the device under test is 32.768 kHz.

6.5.1. Regulatory Limit: FCC Part 209, Quasi-Peak & Average

Frequency Range (MHz)	Distance (Meters)	Limit (dB μ V/m)
0.009 to 0.490	3	128.5 to 93.8
0.490 to 1.705	3	73.8 to 63
1.705 to 30	3	69.5
30 to 88	3	40.0
88 to 216	3	43.5
216 to 960	3	46.0
Above 960	3	54.0

6.5.2. Measurement Summary

Notes: Each of the tabled entries represents the worst case turntable position and receive antenna height. All measurements were made using a peak detector.

Frequency Range (MHz)	Worst-Case Measured Frequency	Field Strength	FCC Part 15.209 Limit	Margin	Worst Case Axis	Receive Antenna Polarity	Reference
	(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	X, Y, Z	(H/V)	Appendix A
0.01 - 0.15	0.01175	80.87	126.19	-45.32	Y	Gnd Parallel	A.2.1.3
0.15 kHz - 30	0.56625	48.67	72.55	-23.88	Y	Gnd Parallel	A.2.2.3
30 - 1000	934.05000	30.11	40.00	-9.89	X	H	A.1.3.1
1000 - 10000	8795.60000	46.31	54.00	-7.69	Y	H	A.2.4.1

6. Measurement Data (continued)

6.6 Occupied Bandwidth (ANSI C63.10, Section 6.9.1 & ISED RSS-GEN, Issue 4)

Requirement: The occupied bandwidth measurements on an intentional radiator shall be made in accordance with the requirements outlined in ANSI C63.10-2013, Section 6.9.1. If no bandwidth requirement is specified by the procuring or regulatory agency, the bandwidth will be measured at –20 dB with respect to the reference level.

Test Notes: The span range for the SA display shall be between two times and five times the OBW. The nominal IF filter bandwidth (3 dB RBW) should be approximately 1% to 5% of the OBW, unless otherwise specified, depending on the applicable requirement. The dynamic range of the SA at the selected RBW shall be more than 10 dB below the target “dB down” (attenuation) requirement, i.e., if the requirement calls for measuring the –20 dB OBW, the SA noise floor at the selected RBW shall be at least 30 dB below the largest measured value on the display.

Frequency (MHz)	-20 dB Bandwidth (kHz)
915.60	250.94

6.6.1. Occupied (-20 dB) Bandwidth, Fundamental Frequency = 908.4 MHz



6. Measurement Data (continued)

6.7 99% Emission Bandwidth (ISED RSS-GEN)

Requirement: When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

Test Notes: The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual.

Frequency (MHz)	99% Power Bandwidth (kHz)
915.60	400.100

6.7.1. 99% Power Bandwidth, Fundamental Frequency = 908.4 MHz



6. Measurement Data (continued)

6.8. Public Exposure to Radio Frequency Energy Levels (15.247(i) (1.1307 (b)(1)) RSS-GEN, ISSUE 4 5.5, RSS 102)

6.8.1. 15.247(i) (1.1307 (b)(1) Requirements

Requirement: Portable devices are subject to radio frequency radiation exposure requirements.

For a 1-g SAR, the test exclusion result must be ≤ 3.0 .

Test Notes: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by the following formula:

$$\text{SAR Test Exclusion} = \frac{P_{\text{MAX}}}{d_{\text{MIN}}} \times \sqrt{f_{(\text{GHz})}} \quad (1)$$

P_{MAX} mW Maximum power of channel, including tune-up tolerance

d_{MIN} mm Minimum test separation distance, mm (≤ 50 mm)

$f_{(\text{GHz})}$ GHz $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz (>100 MHz and <6 GHz)

(1) FCC OET 447498 - Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

Conclusion: Compliant - The device under test meets the exclusion requirement detailed in FCC OET 447498.

Input:	P_{MAX}^1 (mW)	0.0004
d_{MIN} (mm)	5.0000	
$f_{(\text{GHz})}$	0.9150	
Test Exclusion:		0.0001
Limit Exemption:		3.0000

¹ Taken from column 5 of the table in Section 7.4 of this test report.

6.8.2. RSS-102 Issue 5 Requirements

Requirement: SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. Portable devices are subject to radio frequency radiation exposure requirements.

Test Notes: The limit was taken from Table 1 of RSS-102 Issue 5.

Frequency	Separation Distance	Maximum Power	RSS-102 Limit	Result
(MHz)	(mm)	(mW)	(mW)	
915.60	≤ 5	0.0004	16.24	Compliant

7. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with the Federal Communications Commission (FCC) and Innovation Science and Economic Development Canada (ISED) standards. Through our American Association for Laboratory Accreditation (A2LA) ISO Guide 17025 Accreditation our test sites are designated with the FCC (designation number **US1091**), Industry Canada (file number **IC 3023A-1**) and VCCI (Member number 3168) under registration number A-0274.

Compliance Worldwide is also designated as a Phase 1 CAB under APEC-MRA (US0132) for Australia/New Zealand AS/NZS CISPR 22, Chinese-Taipei (Taiwan) BSMI CNS 13438 and Korea (RRA) KN 11, KN 13, KN 14-1, KN 22, KN 32, KN 61000-6-3, KN 61000-6-4.

The radiated emissions test site is a 3 and 10 meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane required by EN 55022. A second conducted emissions site is also located in the basement of the OATS site with a 2.3 x 2.5 meter ground plane and a 2.4 x 2.4 meter vertical wall.

Both sites are designed to test products or systems 1.5 meters W x 1.5 meters L x 2.0 meters H, floor standing or table top.

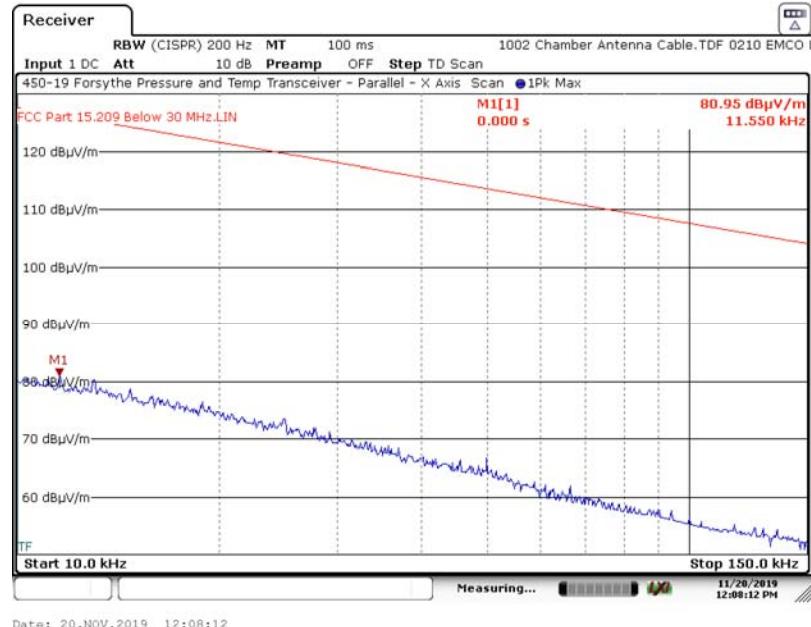
Appendix A

Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN, Issue 4 (continued)

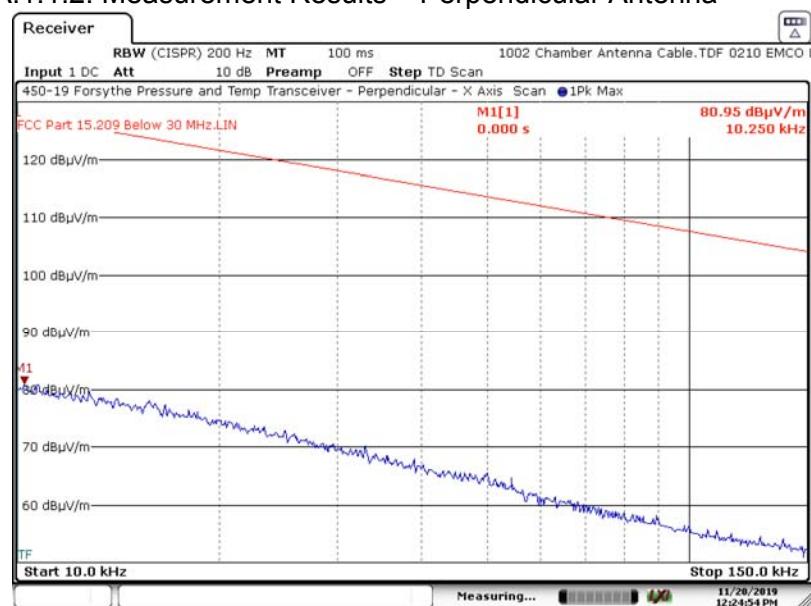
A.1. Device Orientation X-Axis

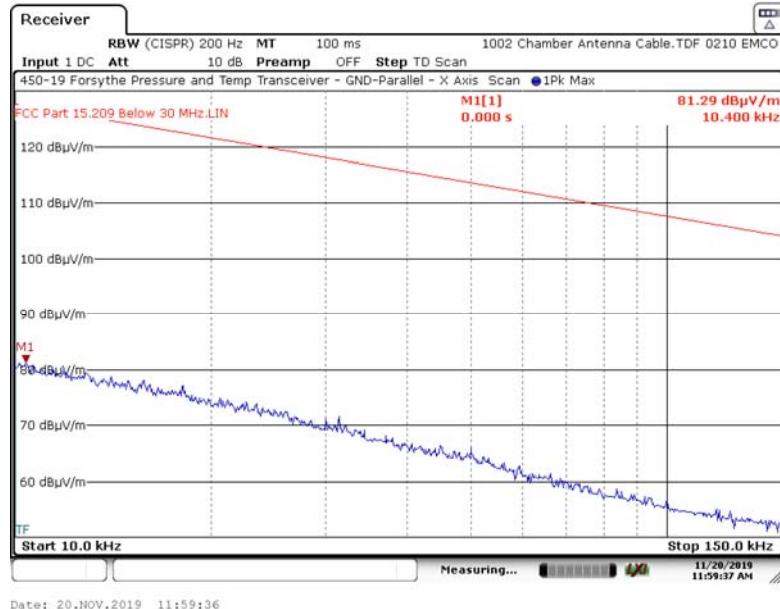
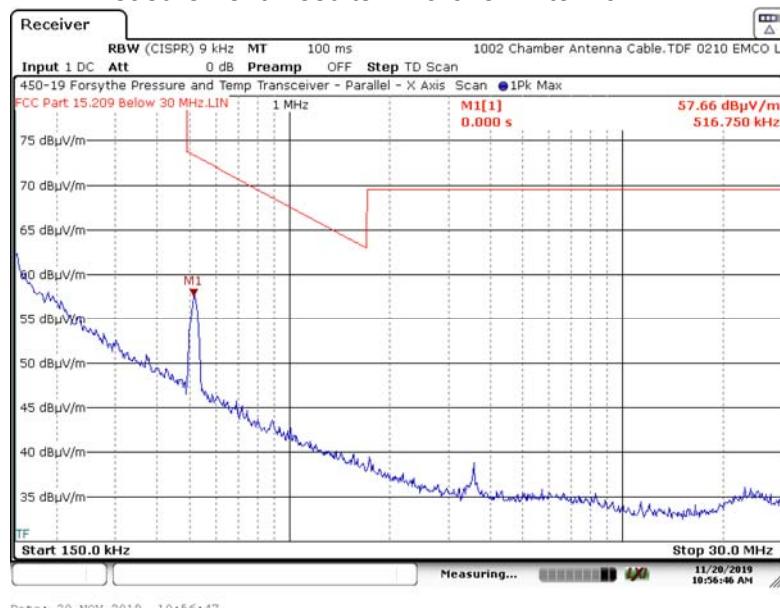
A.1.1. Spurious Radiated Emissions (10 kHz to 150 kHz)

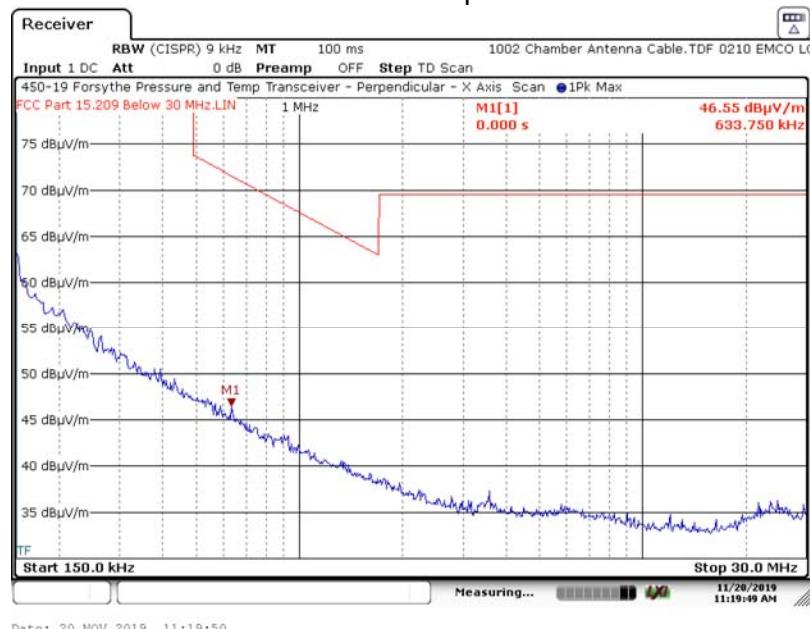
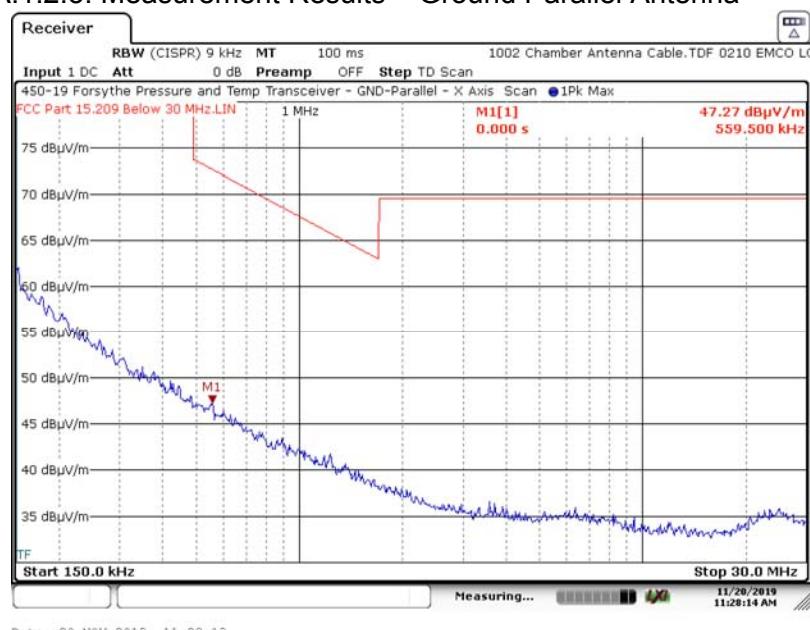
A.1.1.1. Measurement Results – Parallel Antenna

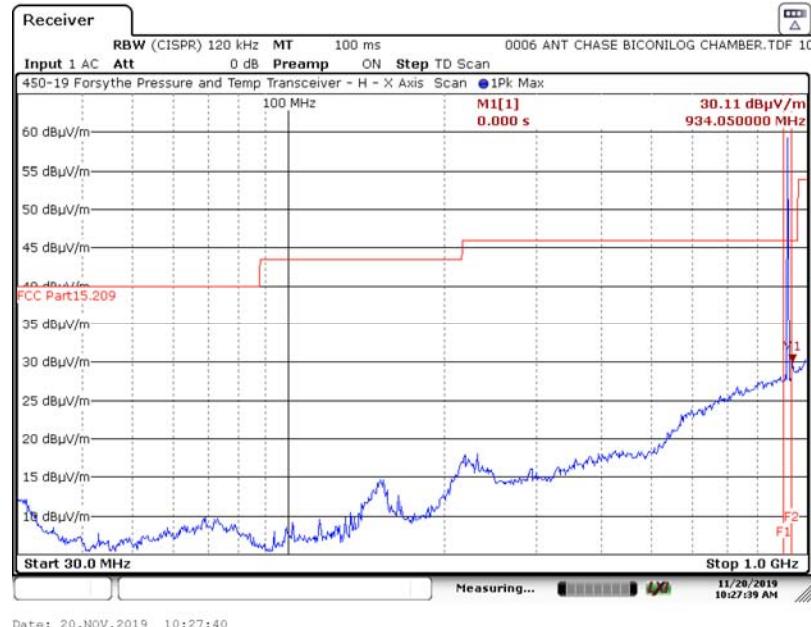


A.1.1.2. Measurement Results – Perpendicular Antenna



Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.1. Device Orientation X-Axis
A.1.1. Spurious Radiated Emissions (10 kHz to 150 kHz)
A.1.1.3. Measurement Results – Ground Parallel Antenna

A.1.2. Spurious Radiated Emissions (150 kHz to 30 MHz)
A.1.2.1. Measurement Results – Parallel Antenna


Appendix A (continued)
Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)
A.1. Device Orientation X-Axis
A.1.2. Spurious Radiated Emissions (150 kHz to 30 MHz)
A.1.2.2. Measurement Results – Perpendicular Antenna

A.1.2.3. Measurement Results – Ground Parallel Antenna


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Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.1. Device Orientation X-Axis
A.1.3. Spurious Radiated Emissions (30 MHz to 1 GHz)
A.1.3.1. Measurement Results – Horizontal Antenna

A.1.3.2. Measurement Results – Vertical Antenna


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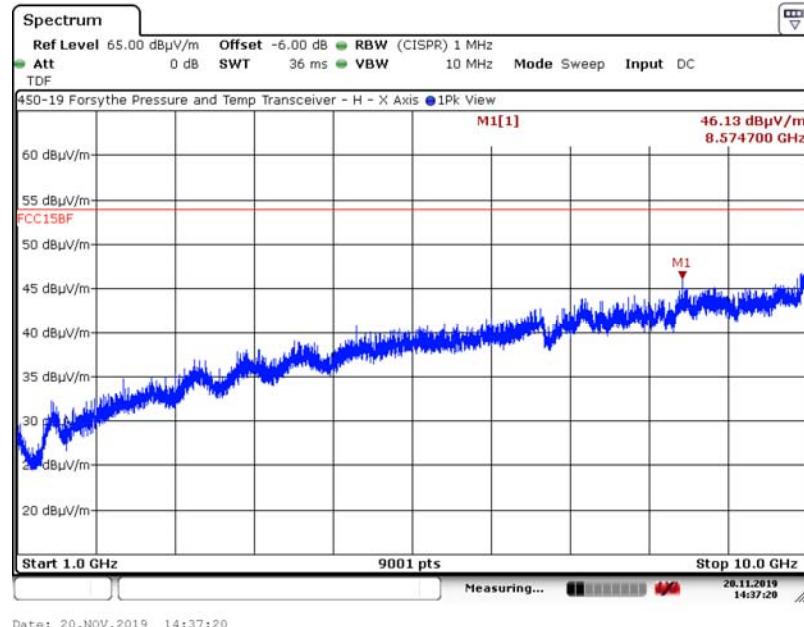
Appendix A (continued)

Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN, Issue 4 (continued)

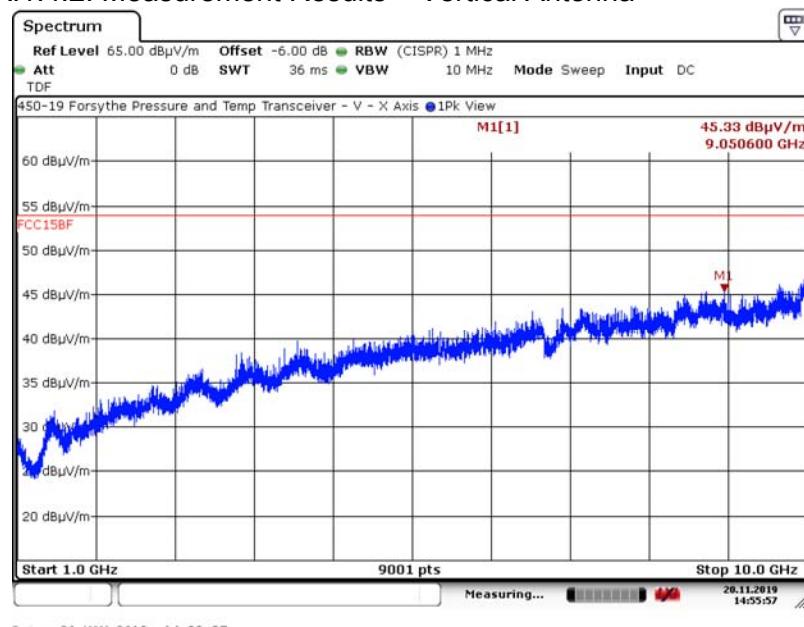
A.1. Device Orientation X-Axis

A.1.4. Spurious Radiated Emissions (1 GHz to 10 GHz)

A.1.4.1. Measurement Results – Horizontal Antenna



A.1.4.2. Measurement Results – Vertical Antenna



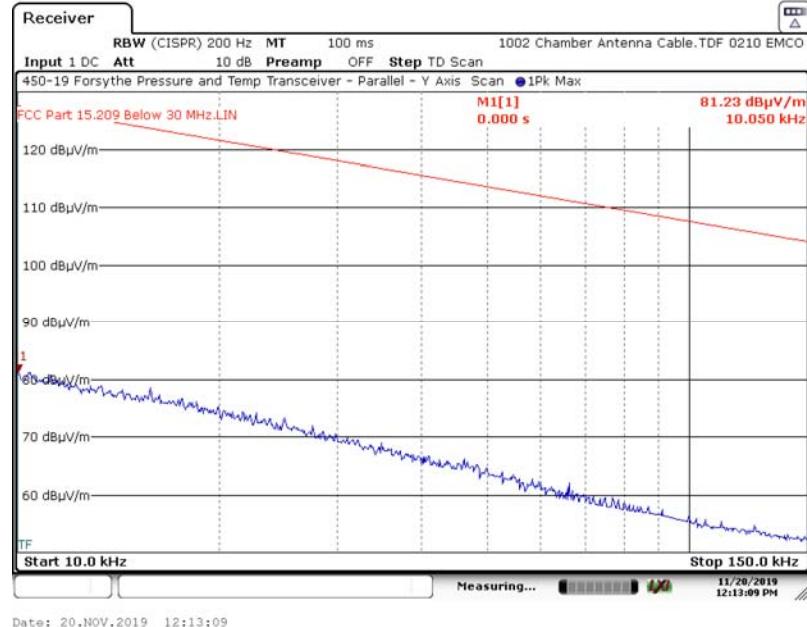
Appendix A (continued)

Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN, Issue 4 (continued)

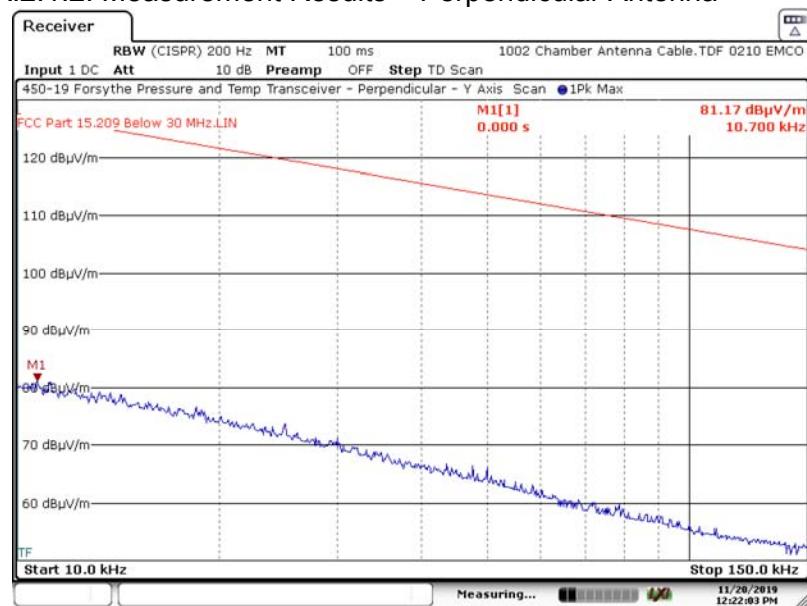
A.2. Device Orientation Y-Axis

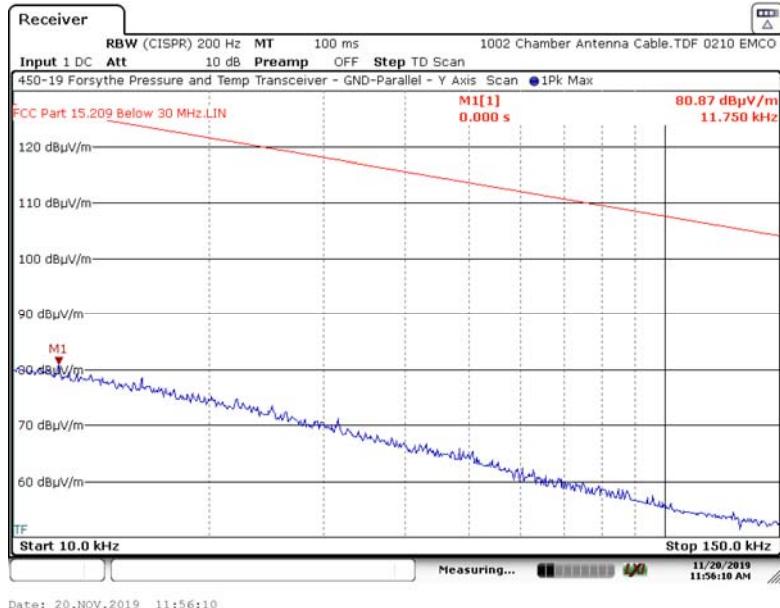
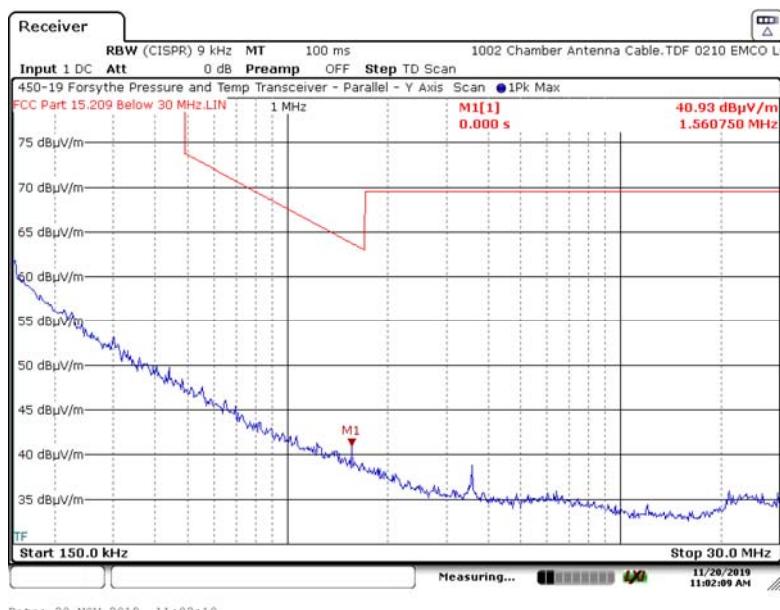
A.2.1. Spurious Radiated Emissions (10 kHz to 150 kHz)

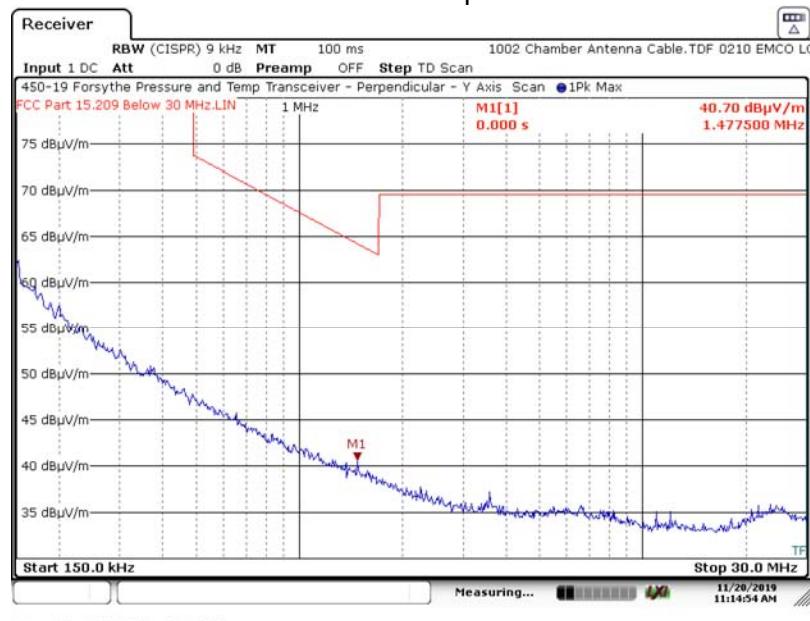
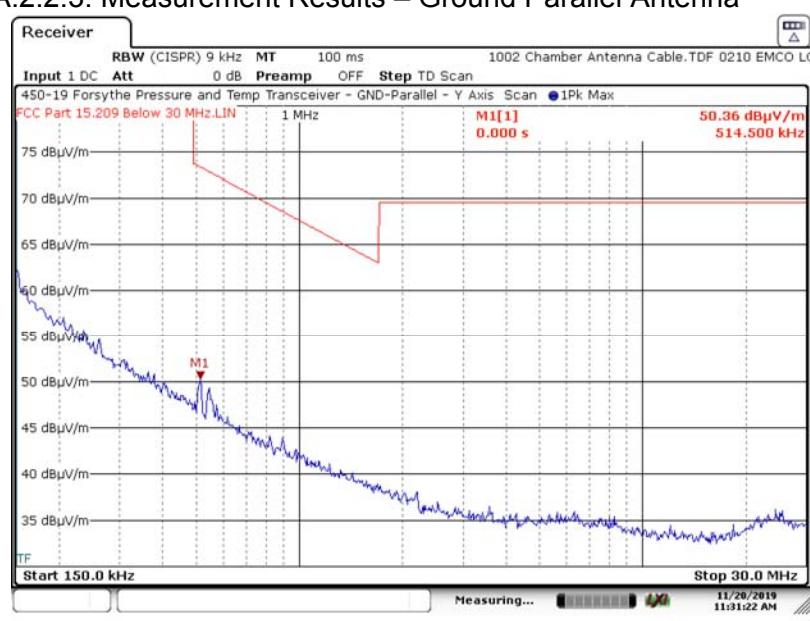
A.2.1.1. Measurement Results – Parallel Antenna

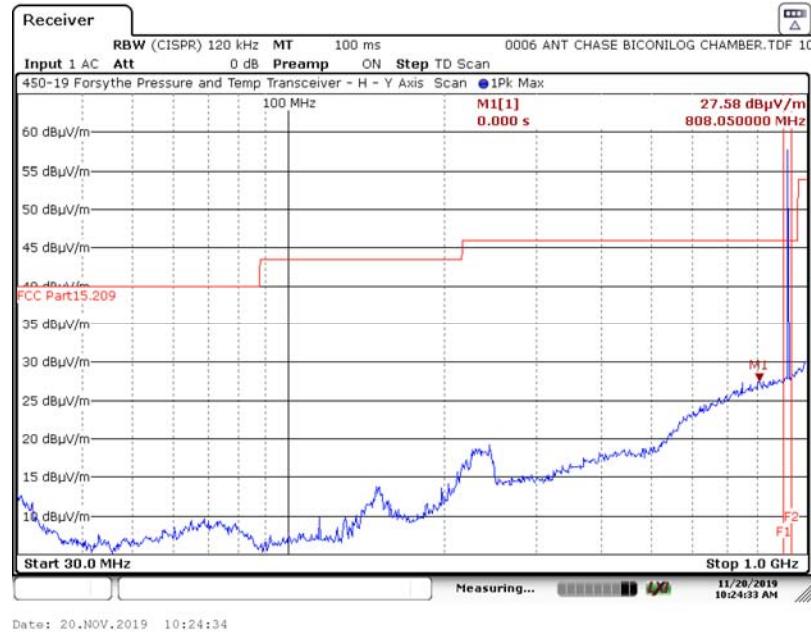
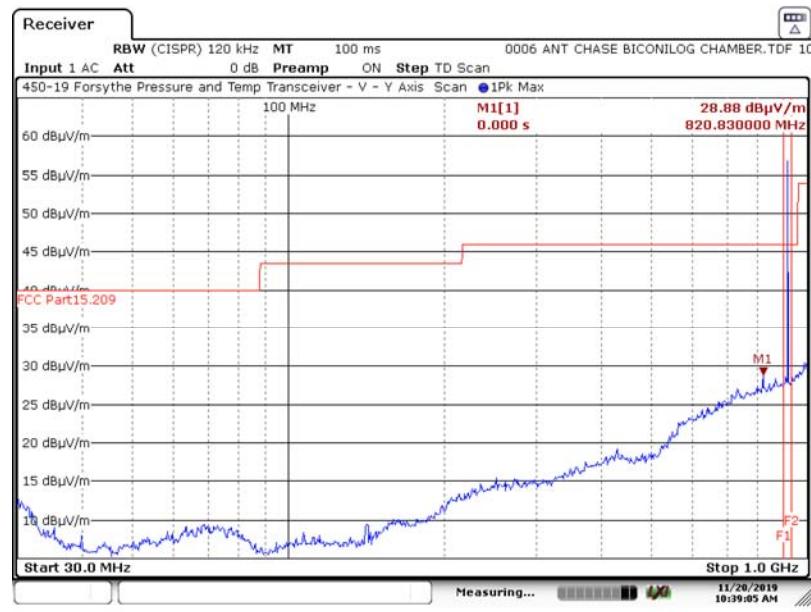


A.2.1.2. Measurement Results – Perpendicular Antenna



Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.2. Device Orientation Y-Axis
A.2.1. Spurious Radiated Emissions (10 kHz to 150 kHz)
A.2.1.3. Measurement Results – Ground Parallel Antenna

A.2.2. Spurious Radiated Emissions (150 kHz to 30 MHz)
A.2.2.1. Measurement Results – Parallel Antenna


Appendix A (continued)
Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)
A.2. Device Orientation Y-Axis
A.2.2. Spurious Radiated Emissions (150 kHz to 30 MHz)
A.2.2.2. Measurement Results – Perpendicular Antenna

A.2.2.3. Measurement Results – Ground Parallel Antenna


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Issue Date: 12/10/2019
Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.2. Device Orientation Y-Axis
A.2.3. Spurious Radiated Emissions (30 MHz to 1 GHz)
A.2.3.1. Measurement Results – Horizontal Antenna

A.2.3.2. Measurement Results – Vertical Antenna


Test Number: 450-19

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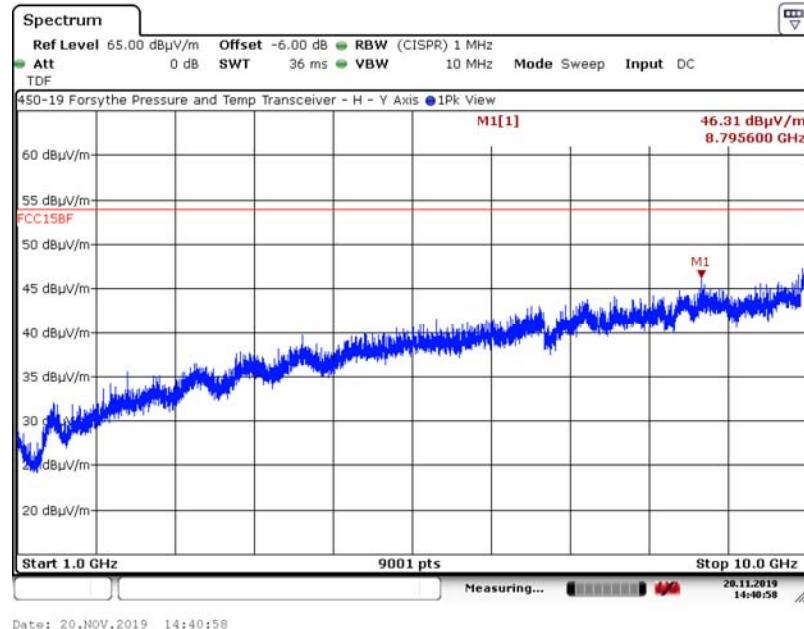
Appendix A (continued)

Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN, Issue 4 (continued)

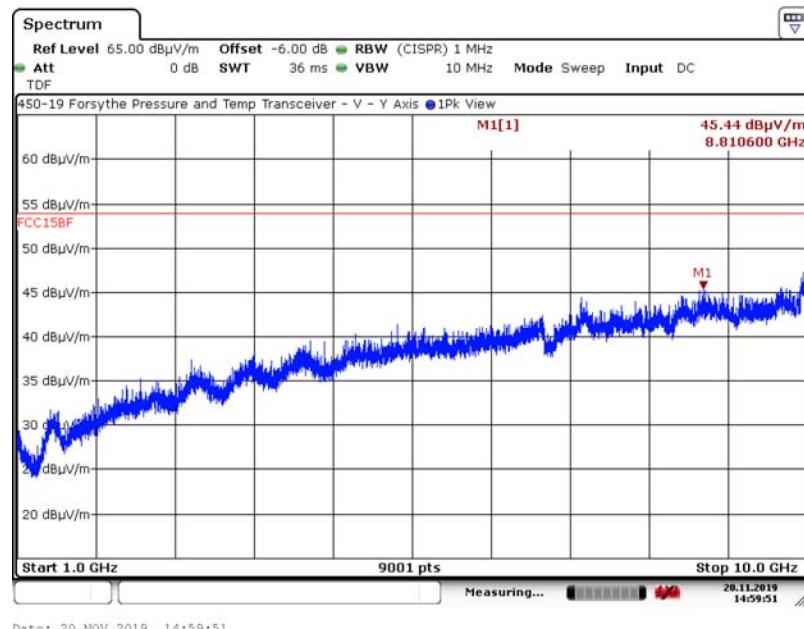
A.2. Device Orientation Y-Axis

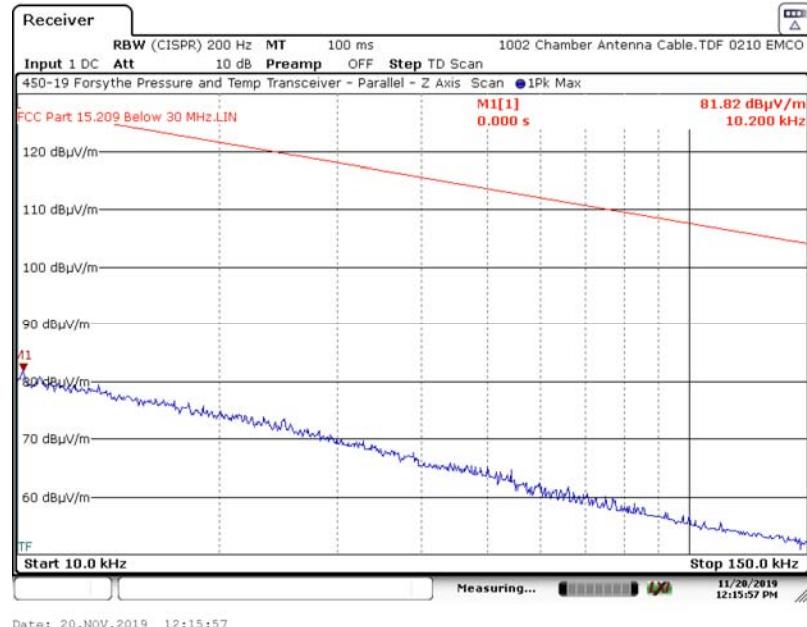
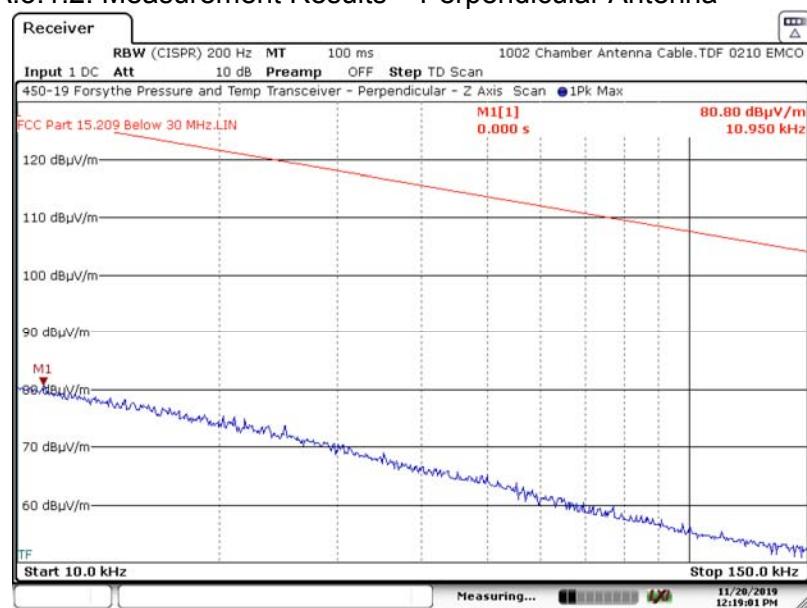
A.2.4. Spurious Radiated Emissions (1 GHz to 10 GHz)

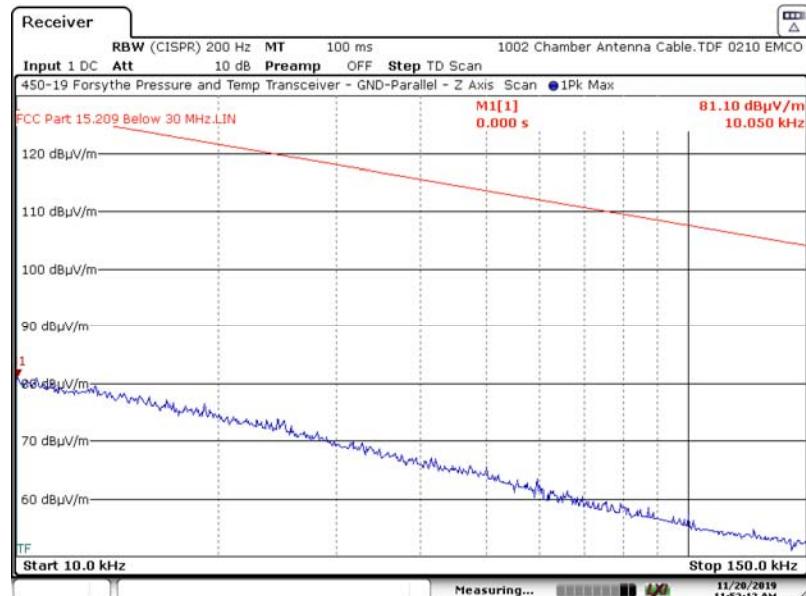
A.2.4.1. Measurement Results – Horizontal Antenna



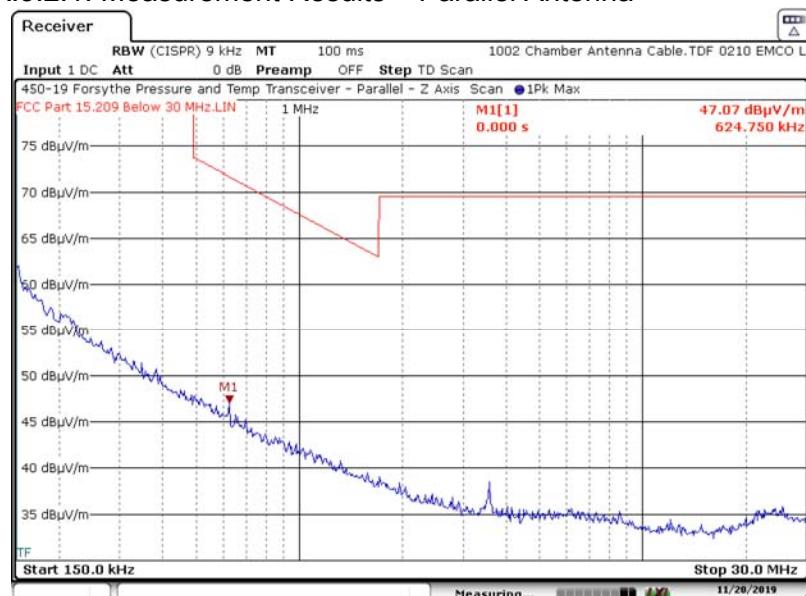
A.2.4.2. Measurement Results – Vertical Antenna



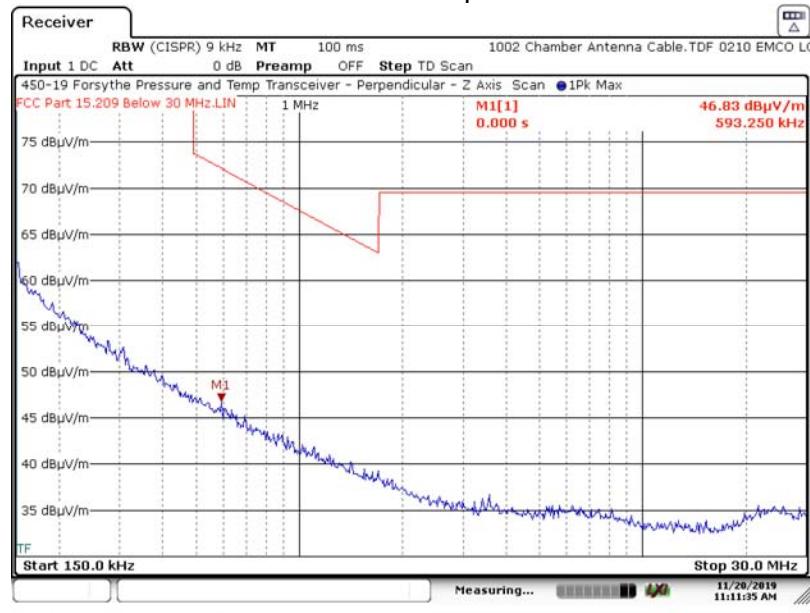
Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.3. Device Orientation Z-Axis
A.3.1. Spurious Radiated Emissions (10 kHz to 150 kHz)
A.3.1.1. Measurement Results – Parallel Antenna

A.3.1.2. Measurement Results – Perpendicular Antenna


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Issue Date: 12/10/2019
Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.3. Device Orientation Z-Axis
A.3.1. Spurious Radiated Emissions (10 kHz to 150 kHz)
A.3.1.3. Measurement Results – Ground Parallel Antenna


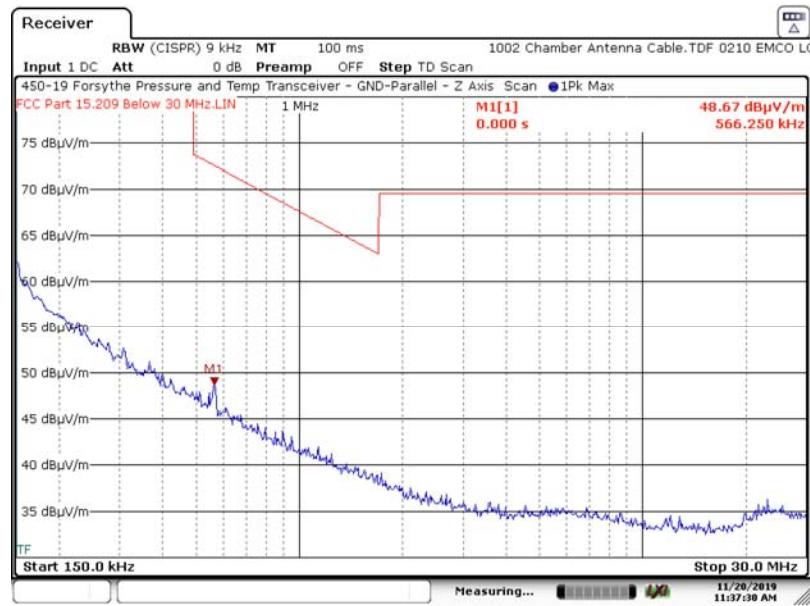
Date: 20.NOV.2019 11:52:12

A.3.2. Spurious Radiated Emissions (150 kHz to 30 MHz)
A.3.2.1. Measurement Results – Parallel Antenna


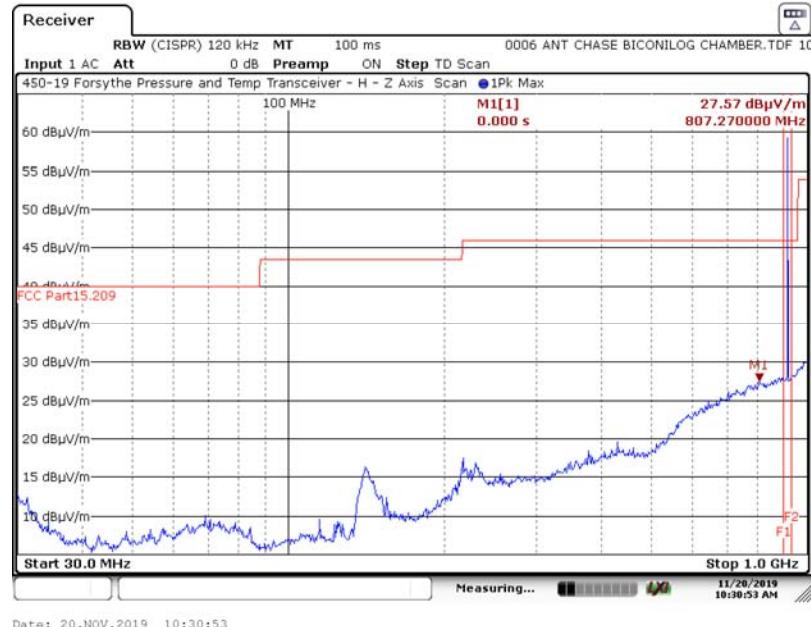
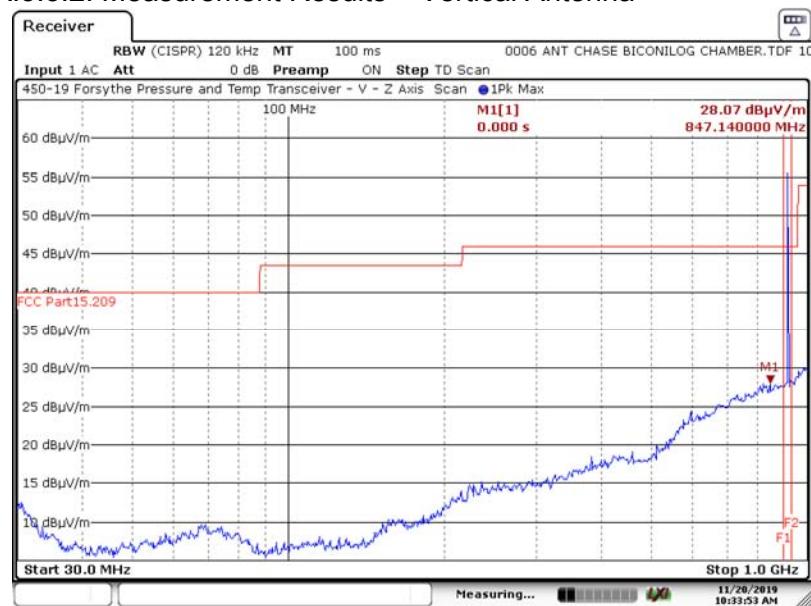
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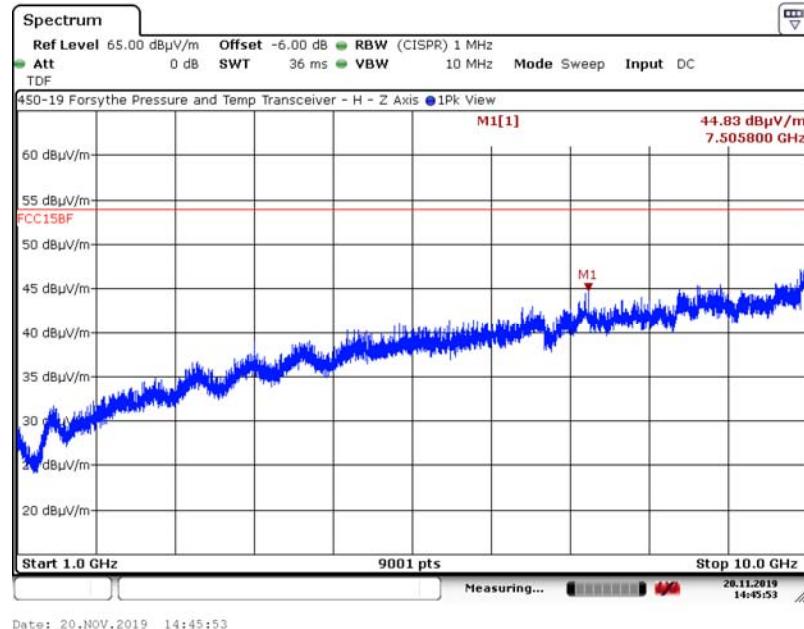
Test Number: 450-19
Issue Date: 12/10/2019
Appendix A (continued)
Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)
A.3. Device Orientation Z-Axis
A.3.2. Spurious Radiated Emissions (150 kHz to 30 MHz)
A.3.2.2. Measurement Results – Perpendicular Antenna


Date: 20.NOV.2019 11:11:36

A.2.2.3. Measurement Results – Ground Parallel Antenna


Date: 20.NOV.2019 11:37:29

Test Number: 450-19
Issue Date: 12/10/2019
Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.3. Device Orientation Y-Axis
A.3.3. Spurious Radiated Emissions (30 MHz to 1 GHz)
A.3.3.1. Measurement Results – Horizontal Antenna

A.3.3.2. Measurement Results – Vertical Antenna


Test Number: 450-19
Issue Date: 12/10/2019
Appendix A (continued)
**Spurious Radiated Emissions, 30 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN, Issue 4 (continued)**
A.3. Device Orientation Z-Axis
A.3.4. Spurious Radiated Emissions (1 GHz to 10 GHz)
A.3.4.1. Measurement Results – Horizontal Antenna

A.3.4.2. Measurement Results – Vertical Antenna
