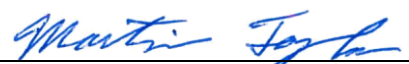


RF Test Report

Project Number: 4804611**Proposal:** SUW-202106001163**Report Number:** 4804611EMC02**Revision Level:** 0**Client:** Fan Innovations, LLC**Equipment Under Test:** Bite Force Amplitude Controller (Receiver)**Model Name:** BFAC**Type/HVIN:** 20031**FCC ID:** 2A2WP-20031**IC ID:** 27702-20031**Applicable Standards:** ANSI C63.10: 2013 (FCC Part 15 Subpart C, § 15.247)**RSS-247, Issue 2****RSS-GEN Issue 5****Report issued on:** 22 September 2021**Test Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by:
Jeremy Pickens, RF Lab Manager**Reviewed by:**
Martin Taylor, Project Engineer

Remarks: This report details the results of the testing carried out on one sample; the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Table of Contents

1	SUMMARY OF TEST RESULTS	4
1.1	MODIFICATIONS REQUIRED FOR COMPLIANCE	4
2	GENERAL INFORMATION	5
2.1	CLIENT INFORMATION	5
2.2	TEST LABORATORY	5
2.3	GENERAL INFORMATION OF EUT	5
2.4	OPERATING MODES AND CONDITIONS	5
2.5	EUT CONNECTION BLOCK DIAGRAM – CONDUCTED MEASUREMENTS	6
2.6	EUT CONNECTION BLOCK DIAGRAM – RADIATED MEASUREMENTS	6
2.7	SYSTEM CONFIGURATIONS	7
2.8	CONFIGURATION DIAGRAMS (RADIATED)	7
3	BANDWIDTH	8
3.1	TEST RESULT	8
3.2	TEST METHOD	8
3.3	TEST SITE	8
3.4	TEST EQUIPMENT	8
3.5	TEST DATA – 6dB BANDWIDTH	9
3.6	TEST DATA – 99% BANDWIDTH	10
4	PEAK OUTPUT POWER	11
4.1	TEST RESULT	11
4.2	TEST METHOD	11
4.3	TEST SITE	11
4.4	TEST EQUIPMENT	11
4.5	TEST DATA	11
5	POWER SPECTRAL DENSITY	13
5.1	TEST RESULT	13
5.2	TEST METHOD	13
5.3	TEST SITE	13
5.4	TEST EQUIPMENT	13
5.5	TEST DATA	13
6	CONDUCTED SPURIOUS EMISSIONS / BAND EDGE	15
6.1	TEST RESULT	15
6.2	TEST METHOD	15
6.3	TEST SITE	15
6.4	TEST EQUIPMENT	15
6.5	TEST DATA	15
7	FIELD STRENGTH OF SPURIOUS RADIATION (RESTRICTED BANDS)	18
7.1	TEST RESULT	18
7.2	TEST METHOD	18
7.3	TEST SITE	18
7.4	TEST EQUIPMENT	19
7.5	TEST DATA – PEAK PLOTS	20
7.6	TEST DATA – TABULAR DATA	27
9	CONDUCTED EMISSIONS	28
9.1	TEST RESULT	28
9.2	TEST METHOD	28
9.3	TEST SITE	28



9.4	TEST EQUIPMENT	28
9.5	TEST DATA.....	29
10	MEASUREMENT UNCERTAINTY.....	31
11	REVISION HISTORY	32

1 Summary of Test Results

Test Description	Test Specification		Test Result
Bandwidth	15.247(a)(2)	RSS-247 5.2(a) RSS-GEN 6.7	Compliant
Peak Output Power	15.247(b)(3)	RSS-247 5.4 (d)	Compliant
Power Spectral Density	15.247(e)	RSS-247 5.2 (b)	Compliant
Conducted Spurious Emissions / Band Edge	15.247(d)	RSS-247 5.5	Compliant
Field Strength of Spurious Radiation	15.247(d)	RSS-247 5.5	Compliant
Emissions in Restricted Frequency Bands	15.205, 15.209	RSS-GEN 8.9, 8.10	Compliant
Antenna Requirement	15.203	RSS-GEN 6.8	Compliant ¹
AC Powerline Conducted Emissions	15.107, 15.207	RSS-GEN 8.8	Compliant

1) The device employs an external Reverse-Polarity SMA connector.

1.1 Modifications Required for Compliance

None

2 General Information

2.1 Client Information

Name: Fan Innovations, LLC
Address: 6405 Lake Shadows
City, State, Zip, Country: Hixson, TN 37343, USA

2.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01
Designation Number: US1126
ISED Registration: 9984A
CAB Identifier: US0186

2.3 General Information of EUT

Product Description: Bite Force Amplitude Controller (Receiver)
Type/HVIN: 20031
Serial Number: 166000003 (Low), 165600007 (Middle), 166000002 (High)

Frequency Range: 912 – 919 MHz
Data Modes: GFSK
Antenna: External Dipole (1.2dBi Peak Gain) Linx, P/N: ANT -916-CW-HWR-CC

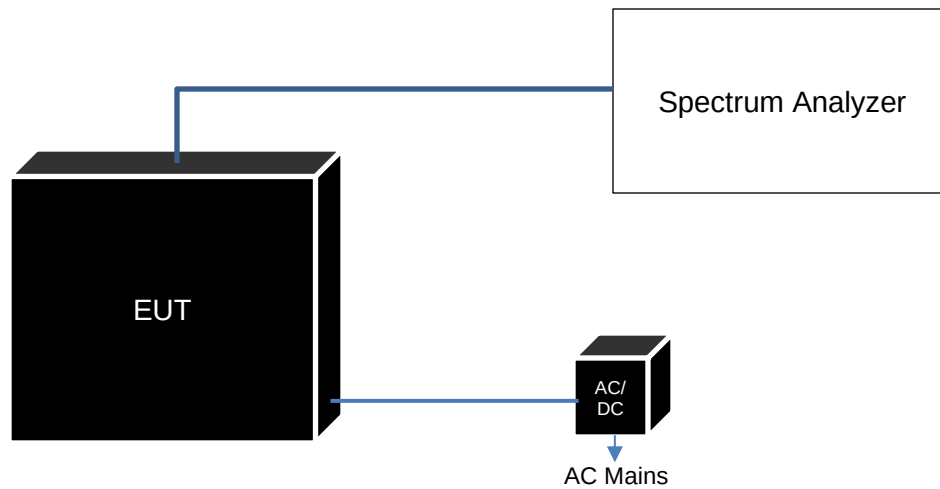
Rated Voltage: 100-240Vac, 50/60Hz AC Adapter; 12Vdc Output
Test Voltage: 120Vac, 60Hz; 12Vdc

Sample Received Date: 02 August 2021
Dates of testing: 02– 18 August 2021

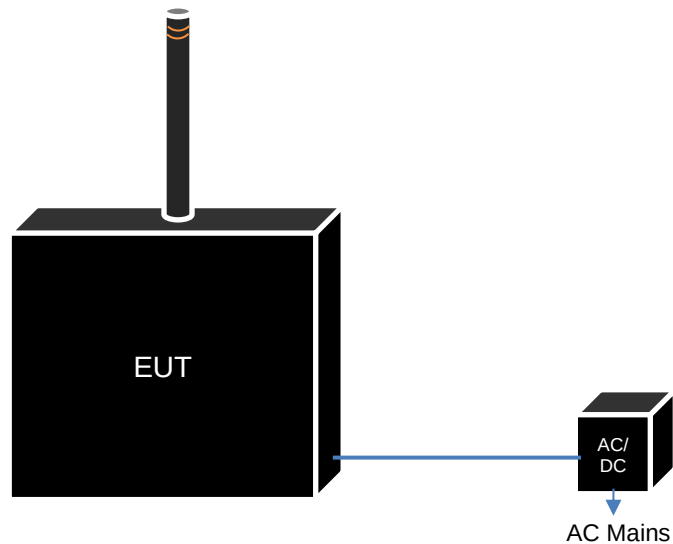
2.4 Operating Modes and Conditions

The device was powered from 12Vdc supplied by an AC/DC adapter and placed into pairing mode. Three devices were provided for testing and pre-programmed to transmit on a single channel at maximum intended power. Low, middle, and highest operating channels were evaluated.

2.5 EUT Connection Block Diagram – Conducted Measurements



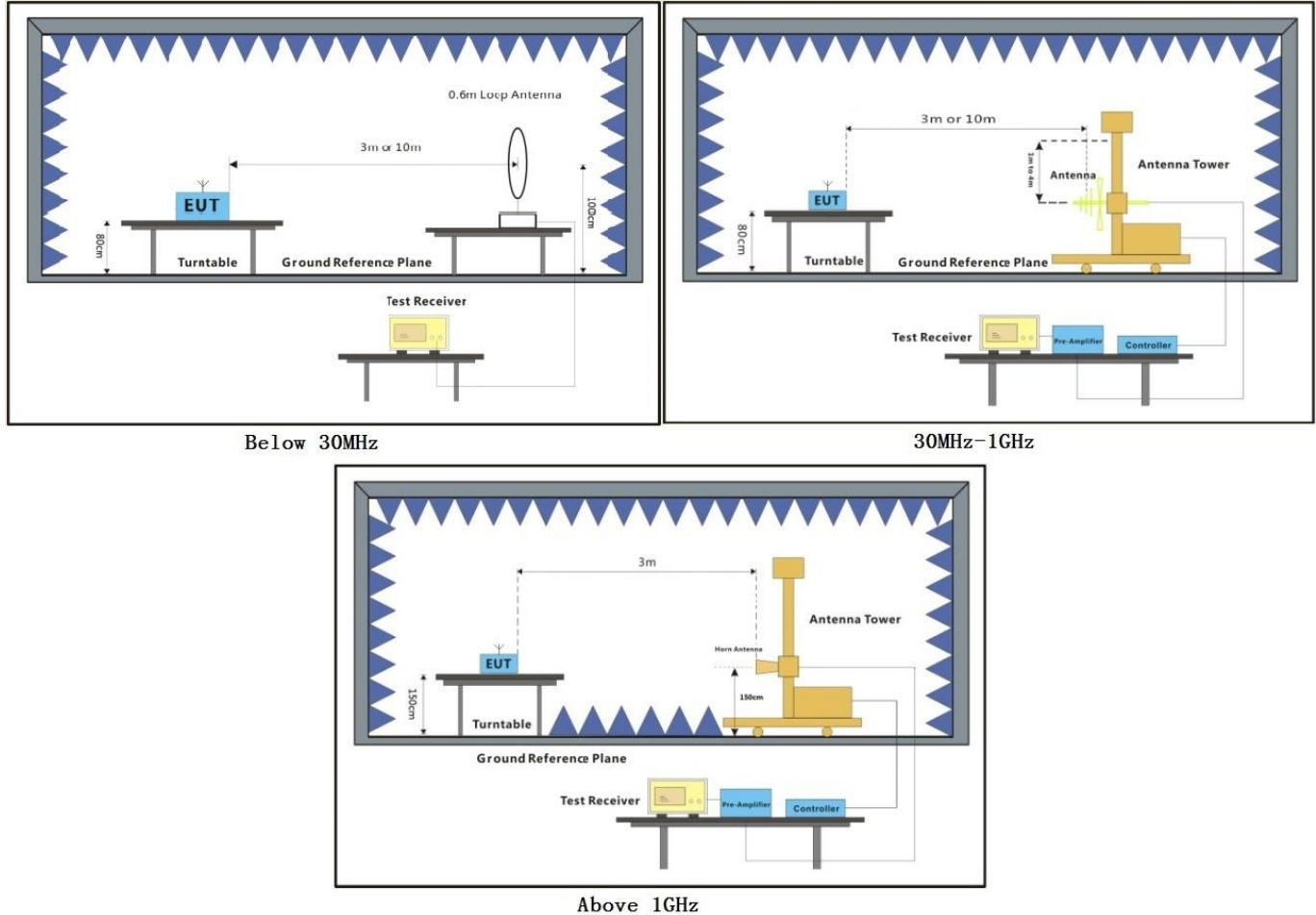
2.6 EUT Connection Block Diagram – Radiated Measurements



2.7 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number
EUT	Fan Innovations, LLC	Bite Force Amplitude Controller (RX)	BFAC	166000003 (Low Channel) 165990007 (Mid Channel) 166000002 (High Channel)
AC/DC	CUI, Inc.	AC/DC Supply	SM16B-12-4-P5	Not Labeled

2.8 Configuration Diagrams (Radiated)



3 Bandwidth

3.1 Test Result

Test Description	Test Specification		Test Result
6 dB Bandwidth 99% Occupied Bandwidth	15.247(a)(2)	RSS-247 5.2(a) RSS-GEN 6.7	Compliant

3.2 Test Method

The procedures from ANSI C63.10: 2013 clause 11.8 and 558074 D01 DTS Meas Guidance v05r2 were used to determine the 6 dB bandwidth.

The procedures from ANSI C63.10: 2013 clause 6.9.2 were used to measure the 99% Occupied Bandwidth.

3.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.6 °C

Relative Humidity: 51.6 %

Atmospheric Pressure: 97.9 kPa

3.4 Test Equipment

Test End Date: 2-Aug-21

Tester: JOP

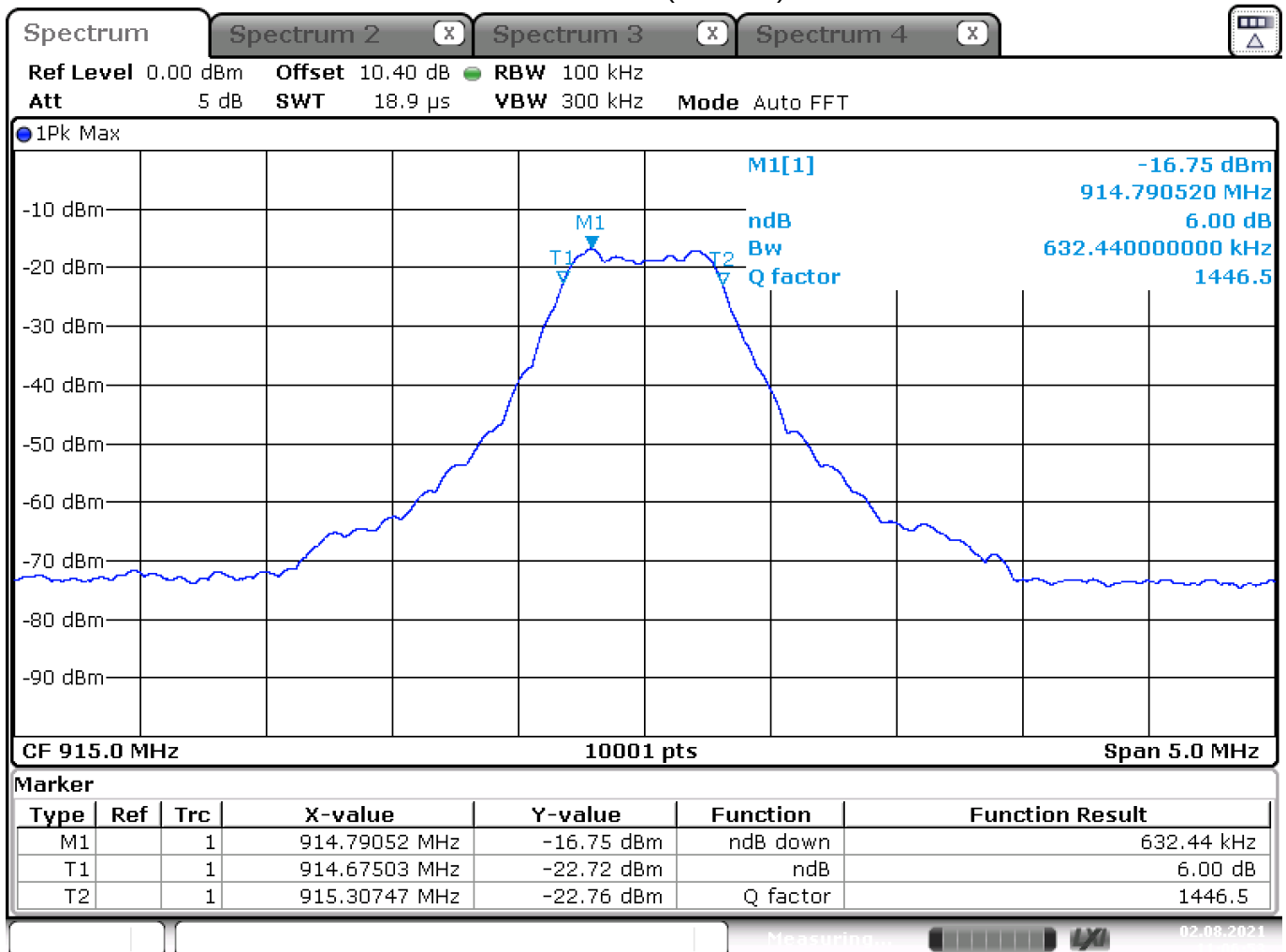
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 10DB	BW-S10W2	Mini-Circuits	15032	9-Jul-21	9-Jul-22
RF Cable SMA	HULL150A-29P-29P-36	HASCO COMPONENTS	19101	16-Mar-21	16-Mar-22
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	27-Dec-19	27-Dec-21

3.5 Test Data – 6dB Bandwidth

Frequency (MHz)	TX Type	ANT No.	6dB BW (MHz)	Limit (MHz)	Verdict
912	SISO	1	0.6368	≥0.5	PASS
915	SISO	1	0.6324	≥0.5	PASS
919	SISO	1	0.6294	≥0.5	PASS

Sample Plot

Mid Channel (915MHz)



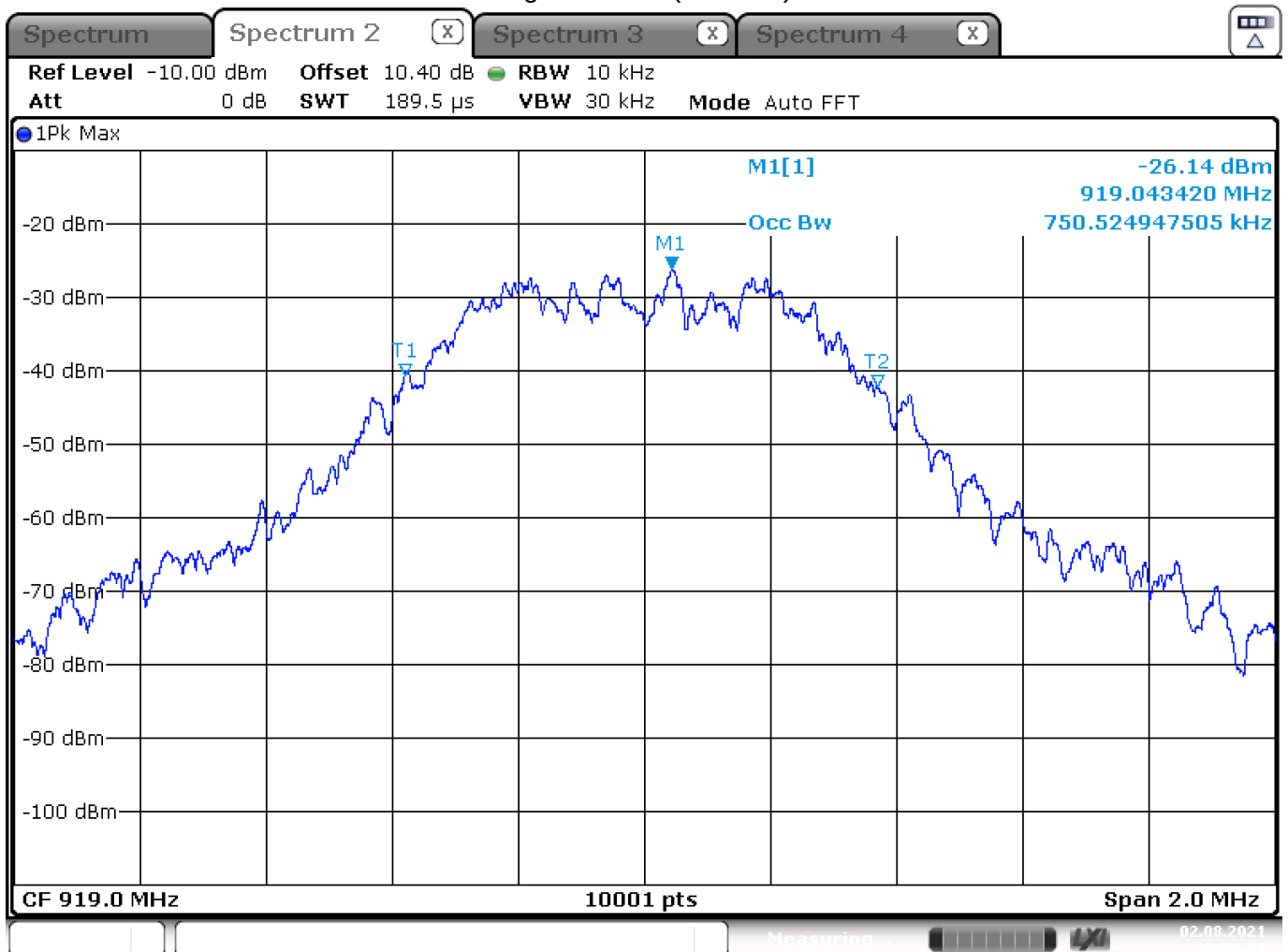
Date: 2.AUG.2021 11:06:54

3.6 Test Data – 99% Bandwidth

Frequency (MHz)	TX Type	ANT No.	99% OBW (MHz)	Limit (MHz)	Verdict
912	SISO	1	0.7352	≥ 0.5	Reported
915	SISO	1	0.7437	≥ 0.5	Reported
919	SISO	1	0.7505	≥ 0.5	Reported

Sample Plot

High Channel (919MHz)



Date: 2.AUG.2021 10:50:22

4 Peak Output Power

4.1 Test Result

Test Description	Test Specification		Test Result
Peak Output Power	15.247(b)(3)	RSS-247 S5.4 (d)	Compliant

4.2 Test Method

Fundamental peak power measurements were recorded using the procedures from ANSI C63.10: 2013 clause 11.9 and KDB 558074 D01 Measurement Guidance v05r2.

Limit

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. For using antennas with greater than 6dBi of gain, the limit is reduced in dB by the amount the gain exceeds 6dBi (e.g. for a 7.4dBi antenna, the limit is reduced from 30dBm to 28.6dBm)

4.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.6 °C

Relative Humidity: 51.6 %

Atmospheric Pressure: 97.9 kPa

4.4 Test Equipment

Test End Date: 2-Aug-21

Tester: JOP

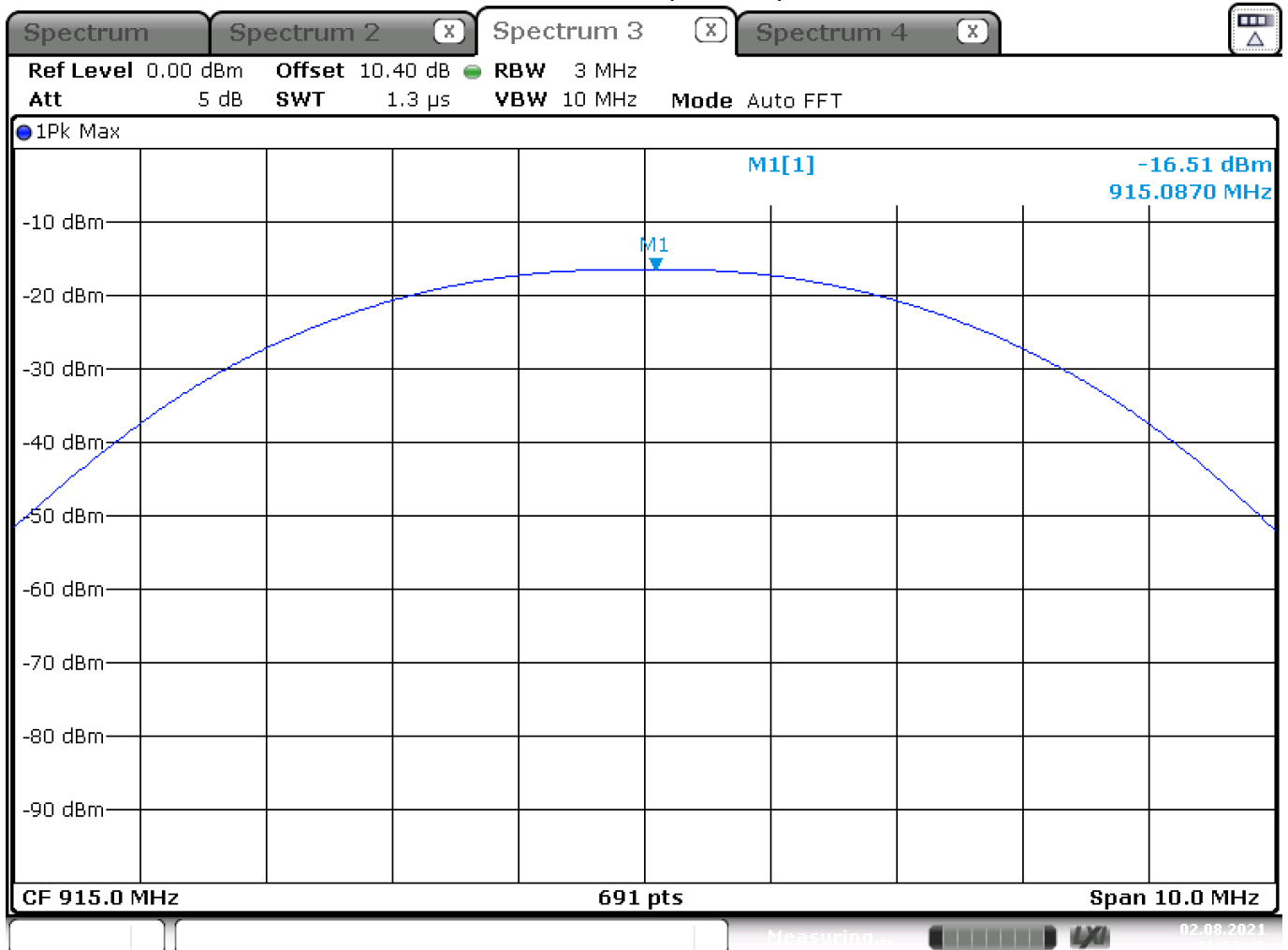
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 10DB	BW-S10W2	Mini-Circuits	15032	9-Jul-21	9-Jul-22
RF Cable SMA	HULL150A-29P-29P-36	HASCO COMPONENTS	19101	16-Mar-21	16-Mar-22
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	27-Dec-19	27-Dec-21

4.5 Test Data

Frequency (MHz)	TX Type	ANT No.	Peak Output Power (dBm)	Limit (dBm)	Verdict
912	SISO	1	-17.71	30	PASS
915	SISO	1	-16.51	30	PASS
919	SISO	1	-17.53	30	PASS

Sample Plot

Mid Channel (915MHz)



Date: 2.AUG.2021 11:03:44

5 Power Spectral Density

5.1 Test Result

Test Description	Test Specification		Test Result
Power Spectral Density	15.247(e)	RSS-247 S5.2 (b)	Compliant

5.2 Test Method

Power spectral density measurements were recorded using the procedures from ANSI C63.10: 2013 clause 11.10 and KDB 558074 D01 Measurement Guidance v05r2.

Limit

The limit is 8 dBm.

5.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.6 °C

Relative Humidity: 51.6 %

Atmospheric Pressure: 97.9 kPa

5.4 Test Equipment

Test End Date: 2-Aug-21

Tester: JOP

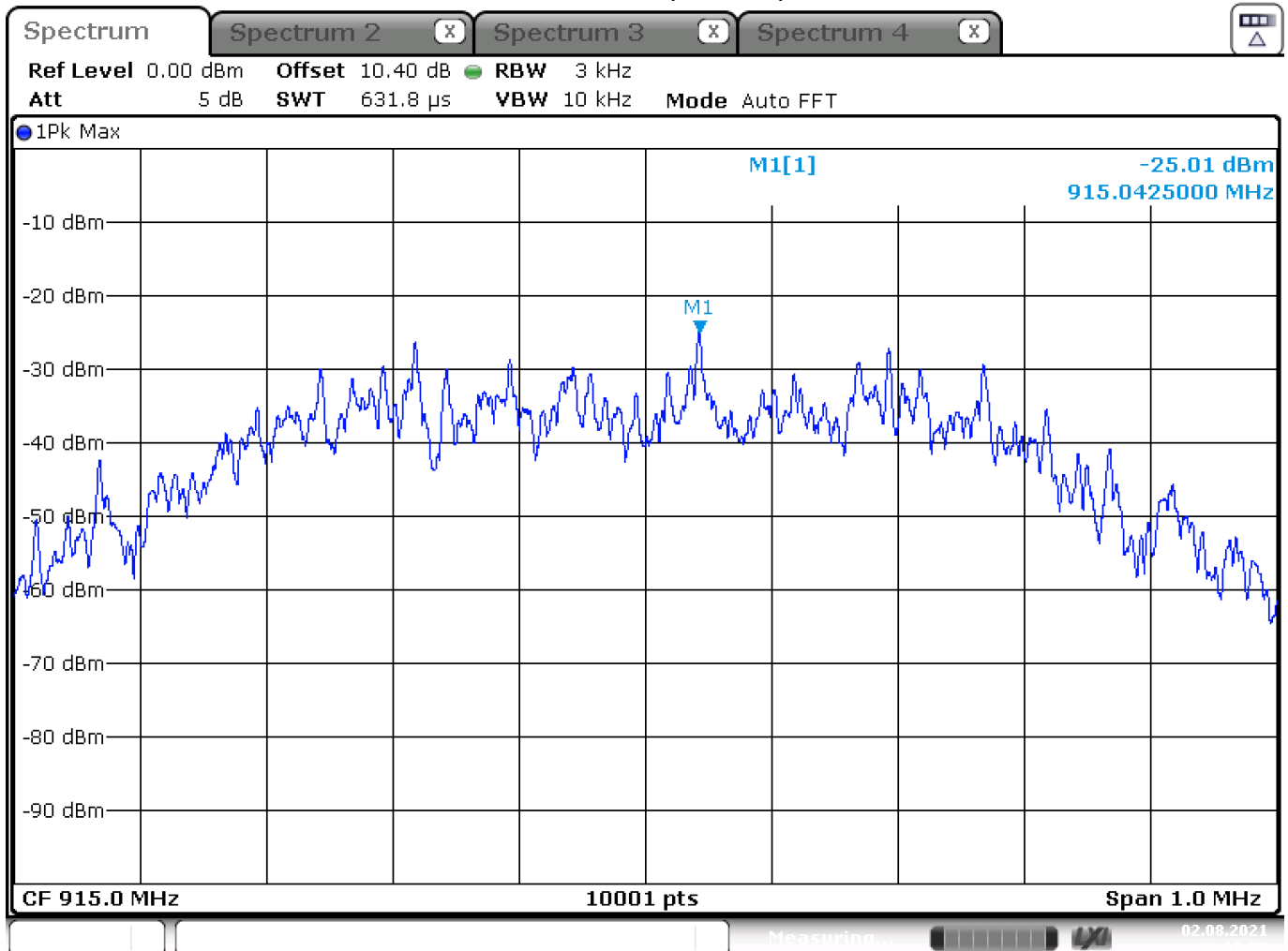
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 10DB	BW-S10W2	Mini-Circuits	15032	9-Jul-21	9-Jul-22
RF Cable SMA	HULL150A-29P-29P-36	HASCO COMPONENTS	19101	16-Mar-21	16-Mar-22
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	27-Dec-19	27-Dec-21

5.5 Test Data

Frequency (MHz)	TX Type	ANT No.	Peak PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
912	SISO	1	-26.17	≤8	PASS
915	SISO	1	-25.01	≤8	PASS
919	SISO	1	-26.01	≤8	PASS

Sample Plot

Mid Channel (915MHz)



Date: 2.AUG.2021 11:07:58

6 Conducted Spurious Emissions / Band Edge

6.1 Test Result

Test Description	Test Specification		Test Result
Conducted Spurious Emissions	15.247(d)	RSS-247 S5.5	Compliant

6.2 Test Method

Spurious emissions in non-restricted frequency bands were recorded using the methods defined in ANSI C63.10: 2013 clause 11.11 and KDB 558074 D01 Measurement Guidance v05r2.

Lowest, middle, and highest channels were investigated.

Because the maximum conducted peak output power was used to determine compliance with the output power limits, the limit in any 100 kHz band outside of the authorized band is 20 dB below the maximum in-band peak level.

6.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.6 °C

Relative Humidity: 51.6 %

Atmospheric Pressure: 97.9 kPa

6.4 Test Equipment

Test End Date: 2-Aug-21

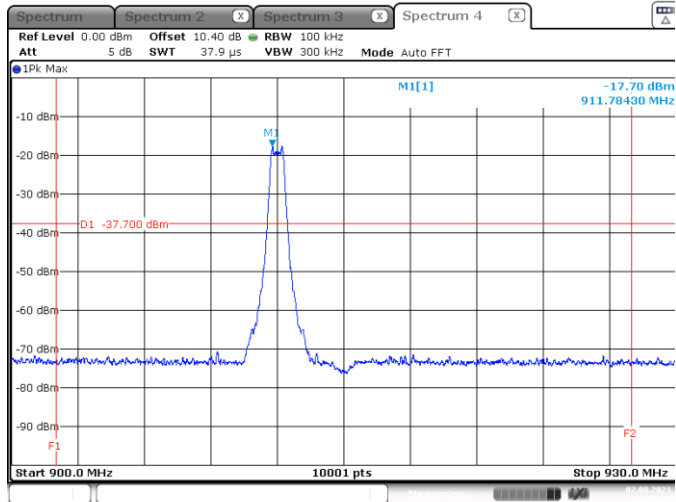
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 10DB	BW-S10W2	Mini-Circuits	15032	9-Jul-21	9-Jul-22
RF Cable SMA	HULL150A-29P-29P-36	HASCO COMPONENTS	19101	16-Mar-21	16-Mar-22
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	27-Dec-19	27-Dec-21

6.5 Test Data

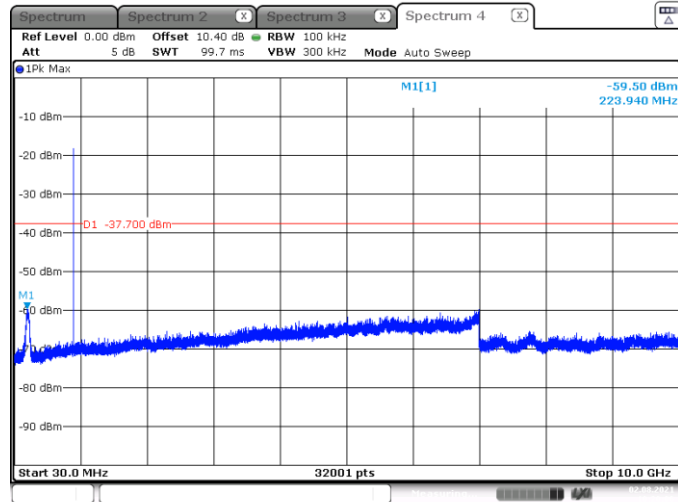
Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limit (dBm)	Verdict
912	SISO	1	-59.50	-37.70	PASS
915	SISO	1	-58.80	-37.31	PASS
919	SISO	1	-59.99	-38.08	PASS

Band Edge - Low Channel (912MHz)



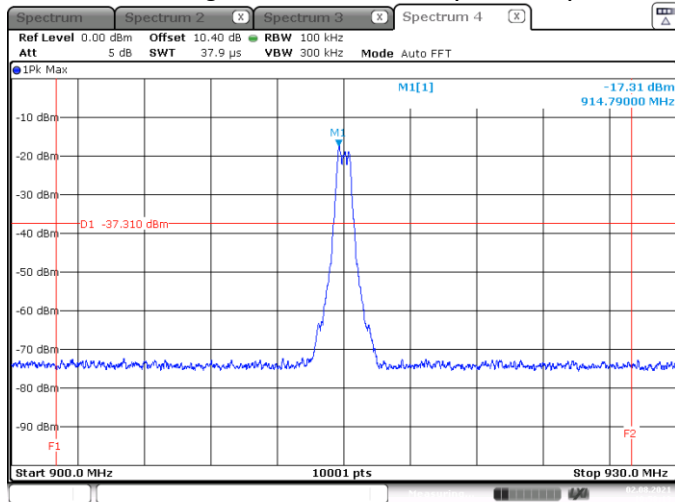
Date: 2.AUG.2021 10:11:35

Full Spectrum - Low Channel (912MHz)



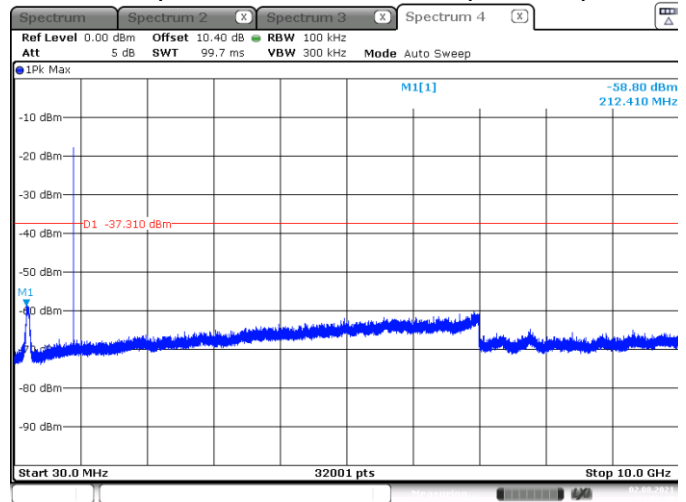
Date: 2.AUG.2021 10:20:07

Band Edges - Mid Channel (915MHz)



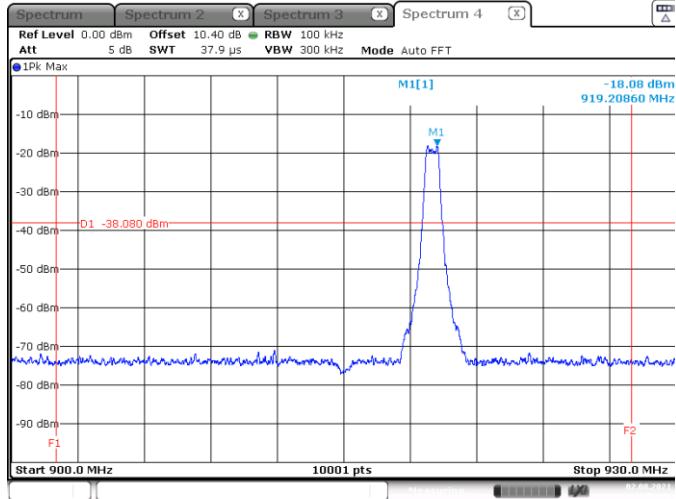
Date: 2.AUG.2021 10:56:14

Full Spectrum - Mid Channel (915MHz)



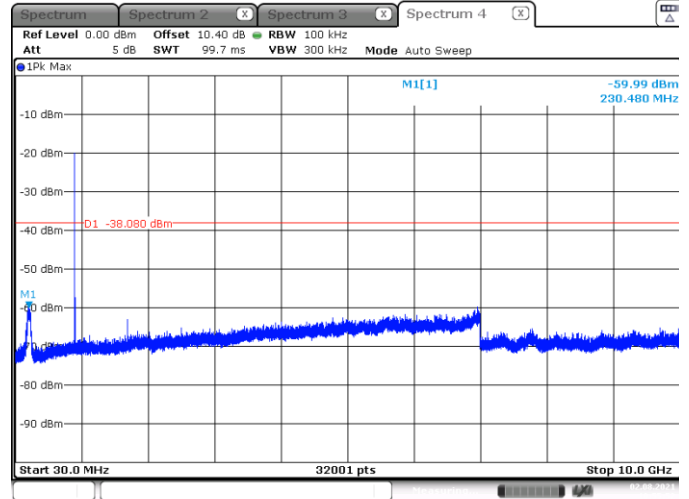
Date: 2.AUG.2021 11:02:47

Band Edge – High Channel (919MHz)



Date: 2.AUG.2021 10:53:21

Full Spectrum - High Channel (919MHz)



Date: 2.AUG.2021 10:55:52

7 Field Strength of Spurious Radiation (Restricted Bands)

7.1 Test Result

Test Description	Test Specification		Test Result
Radiated Spurious Emissions	15.247(d) and 15.209	RSS-247 S5.5	Compliant

7.2 Test Method

The measurement methods defined in ANSI C63.10: 2013 were used.

Lowest, middle, and highest channels were investigated – the device was commanded to continuously transmit on low, middle, and high channels.

Test distance:

- 9k to 30 MHz – The EUT to measurement antenna distance was 3 meters
- 30 to 1000 MHz - The EUT to measurement antenna distance was 3 meters
- 1 to 18 GHz - The EUT to measurement antenna distance was 3 meters
- 18 to 26 GHz - The EUT to measurement antenna distance was 3 meters

Limits within restricted bands of operation:

Frequency	Limits ⁽¹⁾		Peak Limits dBuV/m
	Microvolts/m	dBuV/m	
30 - 88 MHz	100	40 ⁽²⁾	--
88 - 216 MHz	150	43.5 ⁽²⁾	--
216 - 960 MHz	200	46 ⁽²⁾	--
960 - 1000 MHz	500	54 ⁽²⁾	--
1 - 40 GHz	500	54 ⁽³⁾	74

(1) These limits are applicable to emissions outside of the intentional transmit frequency band.

(2) Quasi-peak limit

(3) Average limit

7.3 Test Site

10m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Environmental Conditions

Temperature: 22.4 °C

Relative Humidity: 55.1 %

Atmospheric Pressure: 98.85 kPa

7.4 Test Equipment

Test End Date: 8/11/2021

Tester: EW/AB/ZH

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF Cable Nm to Nf, 0.01-18GHz	90-213-118	TELEDYNE STORM MICROWAVE	20117	17-Feb-2021	17-Feb-2022
RF Cable Nm to Nm, 0.01-18GHz	90-195-354	TELEDYNE STORM MICROWAVE	20120	17-Feb-2021	17-Feb-2022
RF Cable Nm to Nm, 0.01-18GHz	90-195-157	TELEDYNE STORM MICROWAVE	20121	17-Feb-2021	17-Feb-2022
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	21-Jun-2021	21-Jun-2022
ANTENNA, BILOG	JB6	SUNOL	B079689	5-Nov-2020	5-Nov-2022
ANTENNA, DRG HORN (MEDIUM)	3117	ETS Lindgren	B079699	15-Jul-2020	15-Jul-2022
RF CABLE	104PE	HUBER & SUHNER	B079793	3-Sep-2020	3-Sep-2021
LOW NOISE AMPLIFIER	ZKL-2+	Mini-Circuits	B079800	7-Jul-2021	7-Jul-2022
FILTER, HIGH PASS, >1000MHz	HPM50108	MICRO-TRONICS	B079802	6-Jul-2021	6-Jul-2022
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	9-Jul-2021	9-Jul-2022
RF CABLE	SUCOFLEX 100	Huber & Suhner	B108523	3-Sep-2020	3-Sep-2021

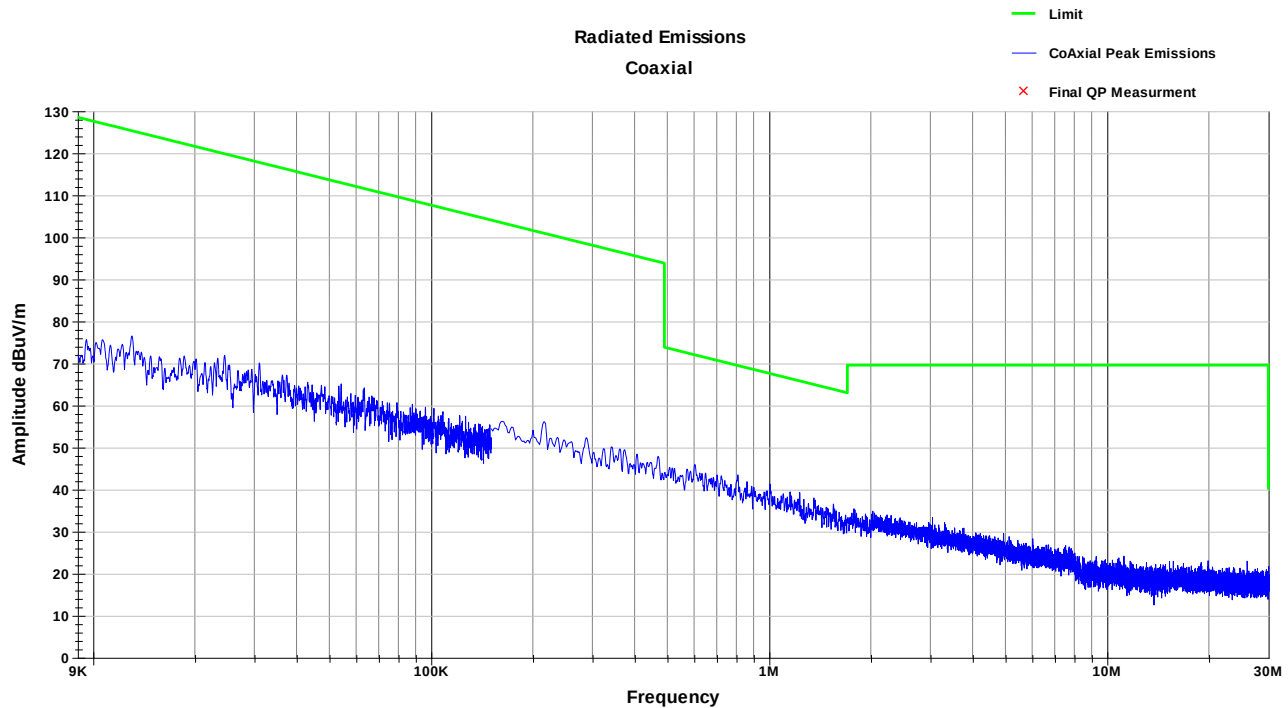
Software:

“RSE 30-1000 MHz T7 201007” TILE! profile dated 07 October 2020

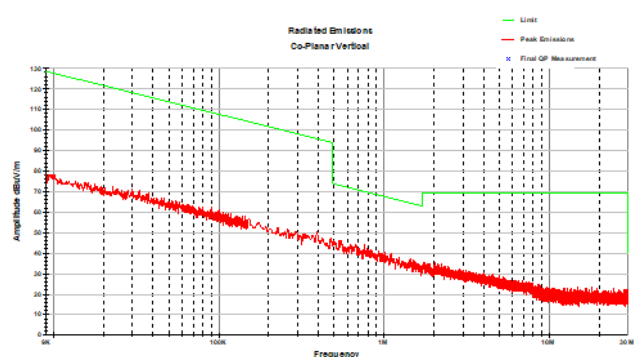
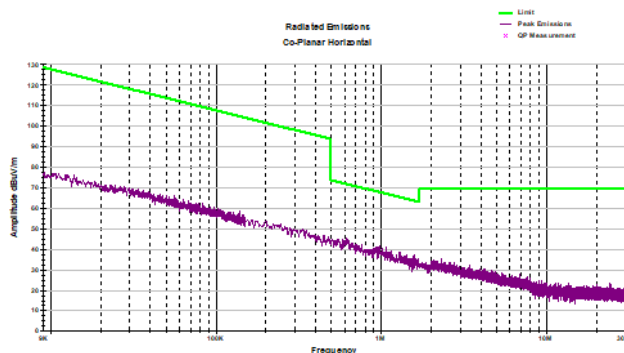
“RSE 1-18 GHz T7 201007” TILE! profile dated 7 October 2020

7.5 Test Data – Peak Plots

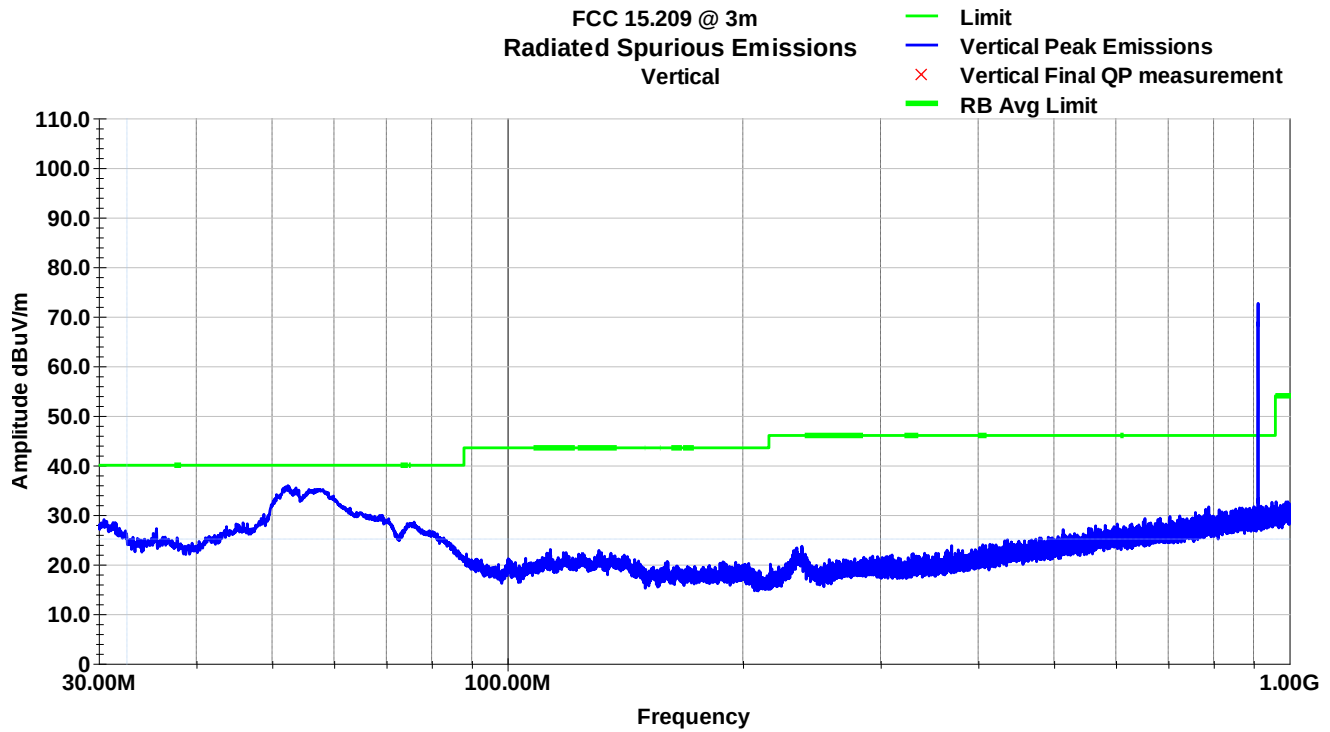
Between 9kHz and 30MHz, there was no significant deviation with respect to axis or channel
Co-Axial Radiated Spurious Emissions – 9kHz-30MHz (LCH)



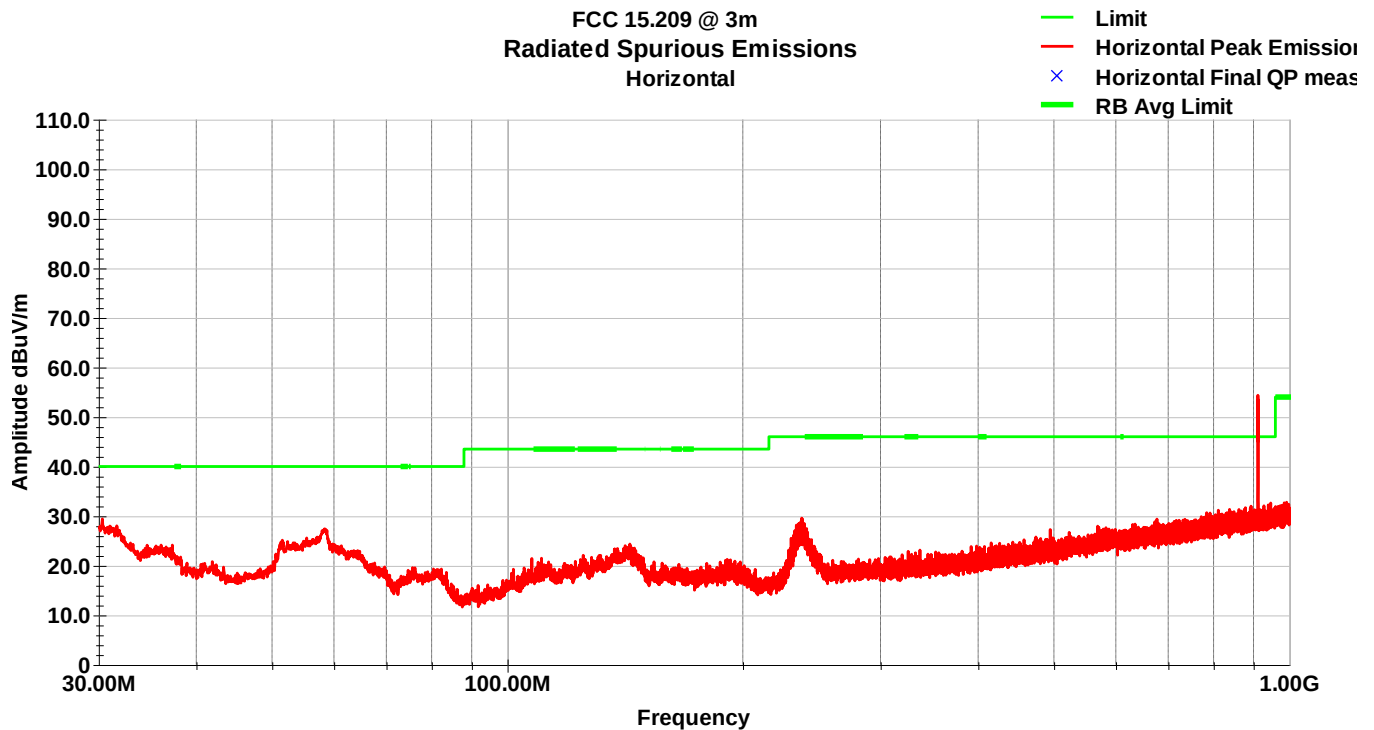
Co-Planar Radiated Spurious Emissions – 9kHz-30MHz (LCH)



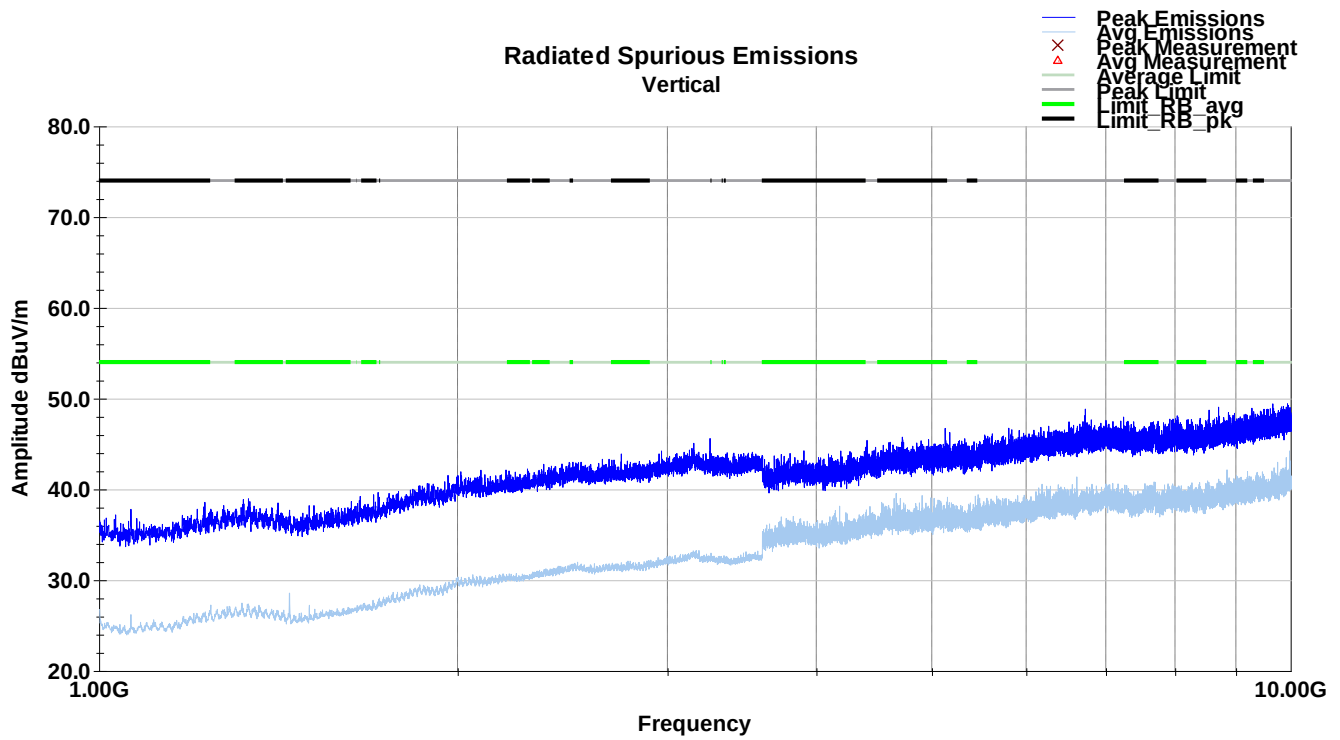
Vertical Radiated Spurious Emissions – 30-1000MHz (LCH)



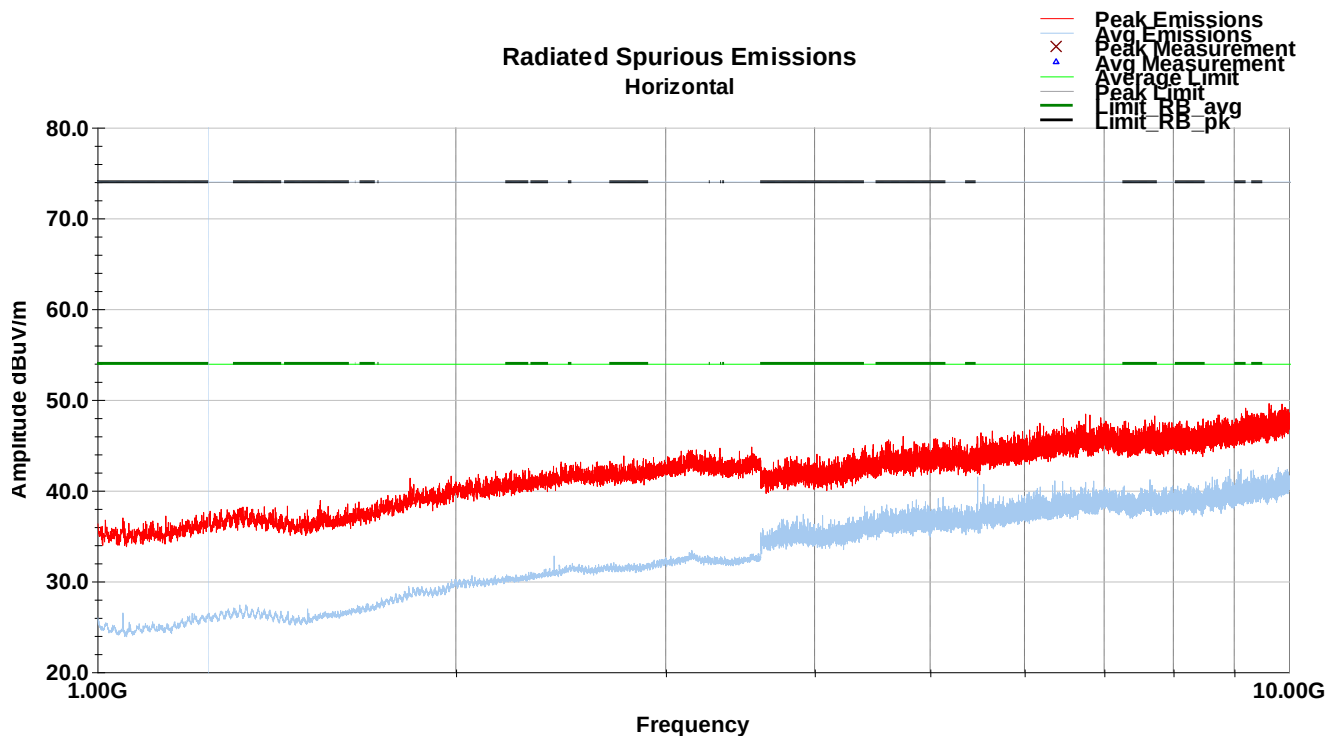
Horizontal Radiated Spurious Emissions – 30-1000MHz (LCH)



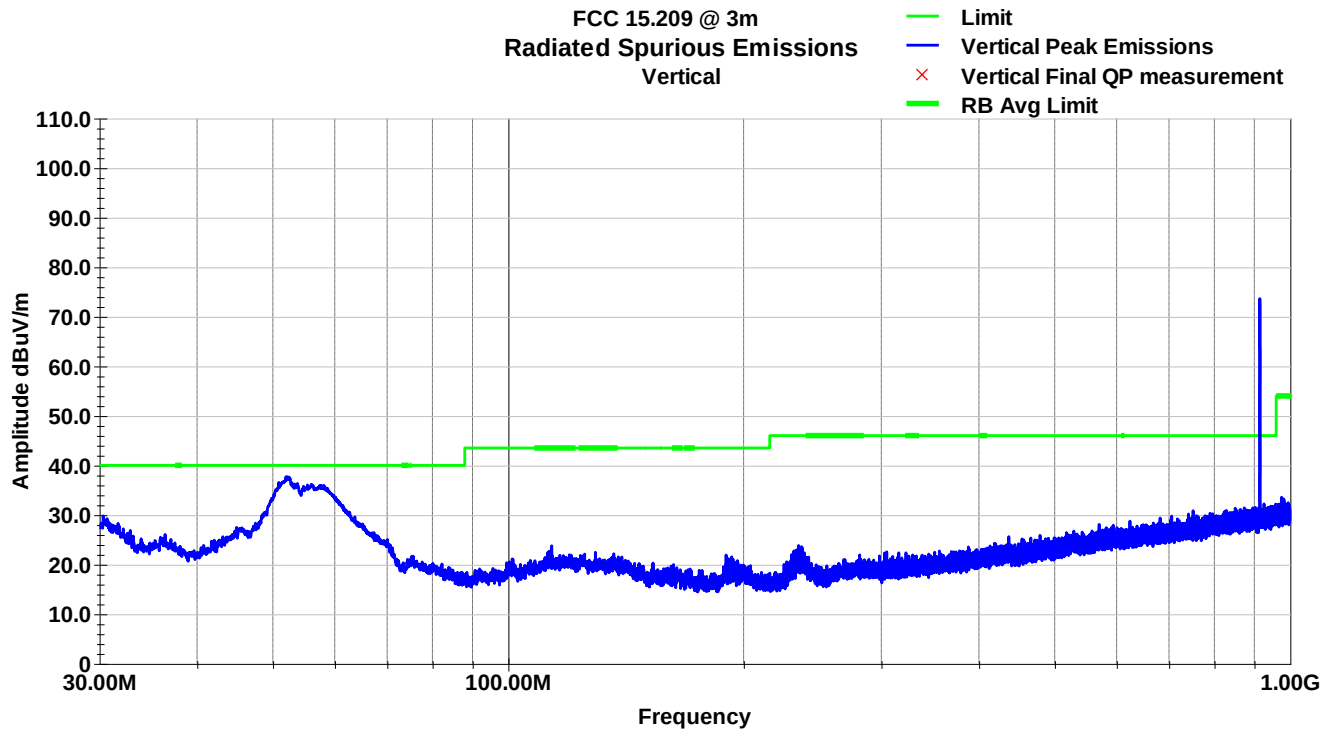
Vertical Radiated Spurious Emissions – 1-10GHz (LCH)



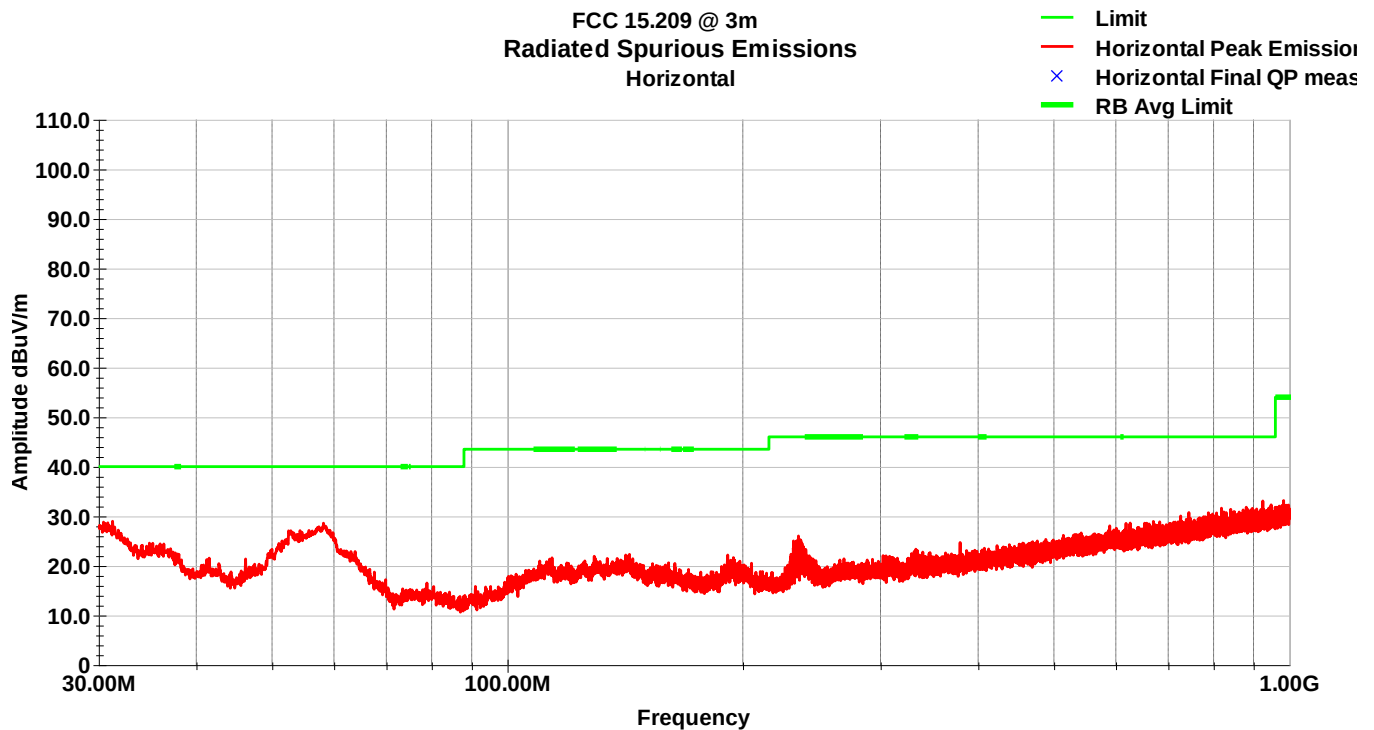
Horizontal Radiated Spurious Emissions – 1-10GHz (LCH)



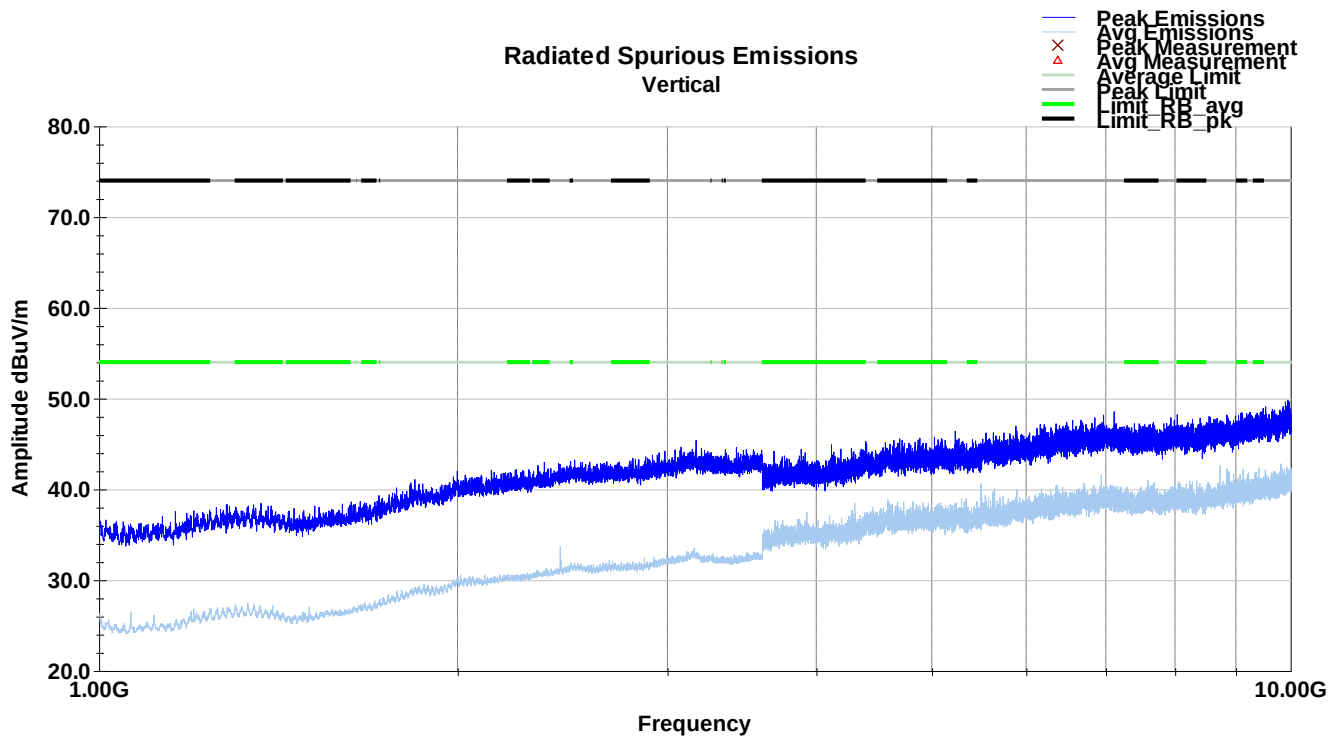
Vertical Radiated Spurious Emissions – 30-1000MHz (MCH)



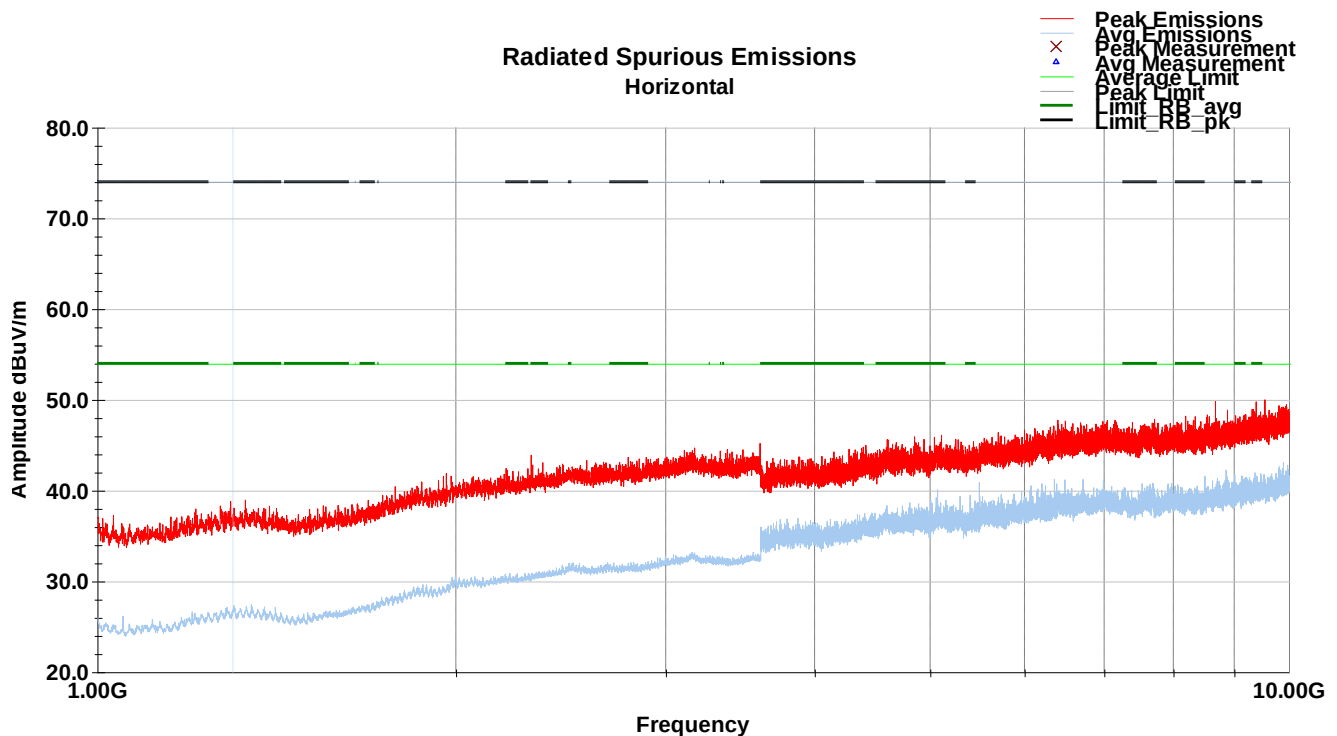
Horizontal Radiated Spurious Emissions – 30-1000MHz (MCH)



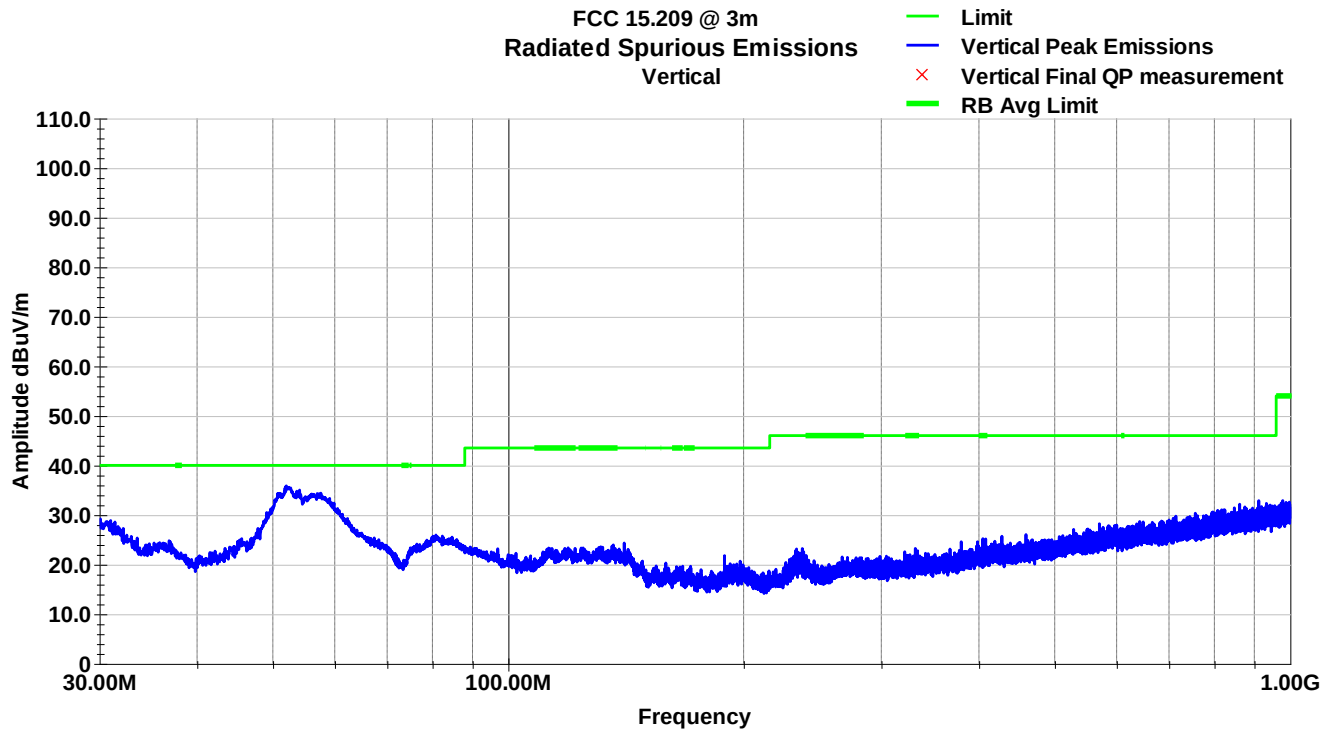
Vertical Radiated Spurious Emissions – 1-10GHz (MCH)



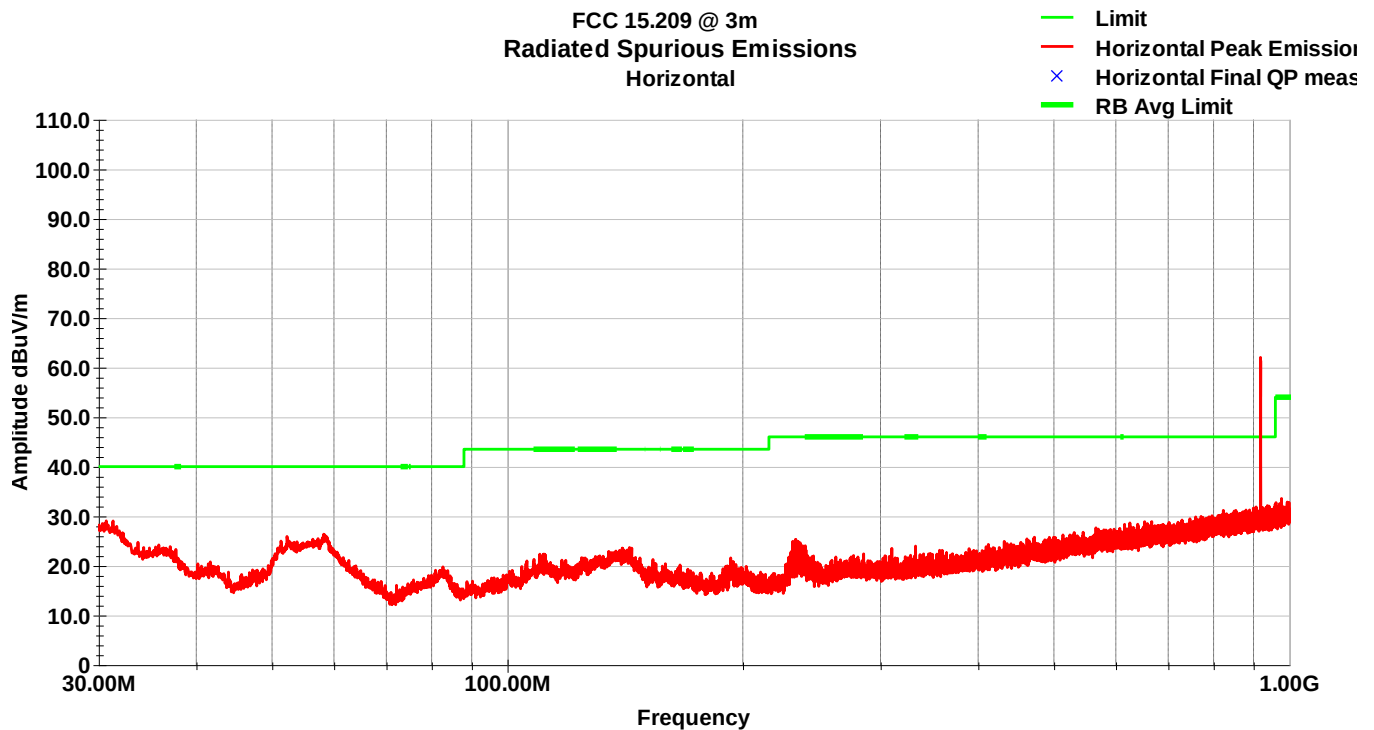
Horizontal Radiated Spurious Emissions – 1-10GHz (MCH)



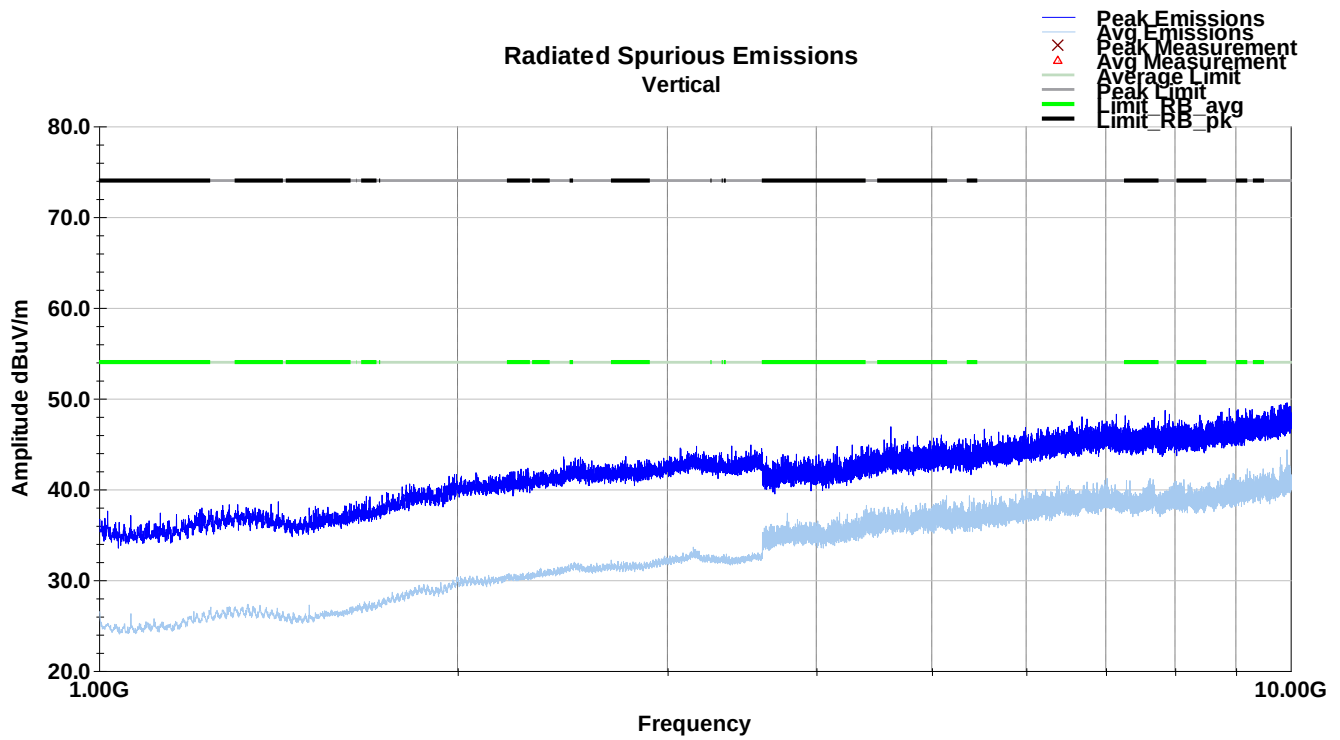
Vertical Radiated Spurious Emissions – 30-1000MHz (HCH)



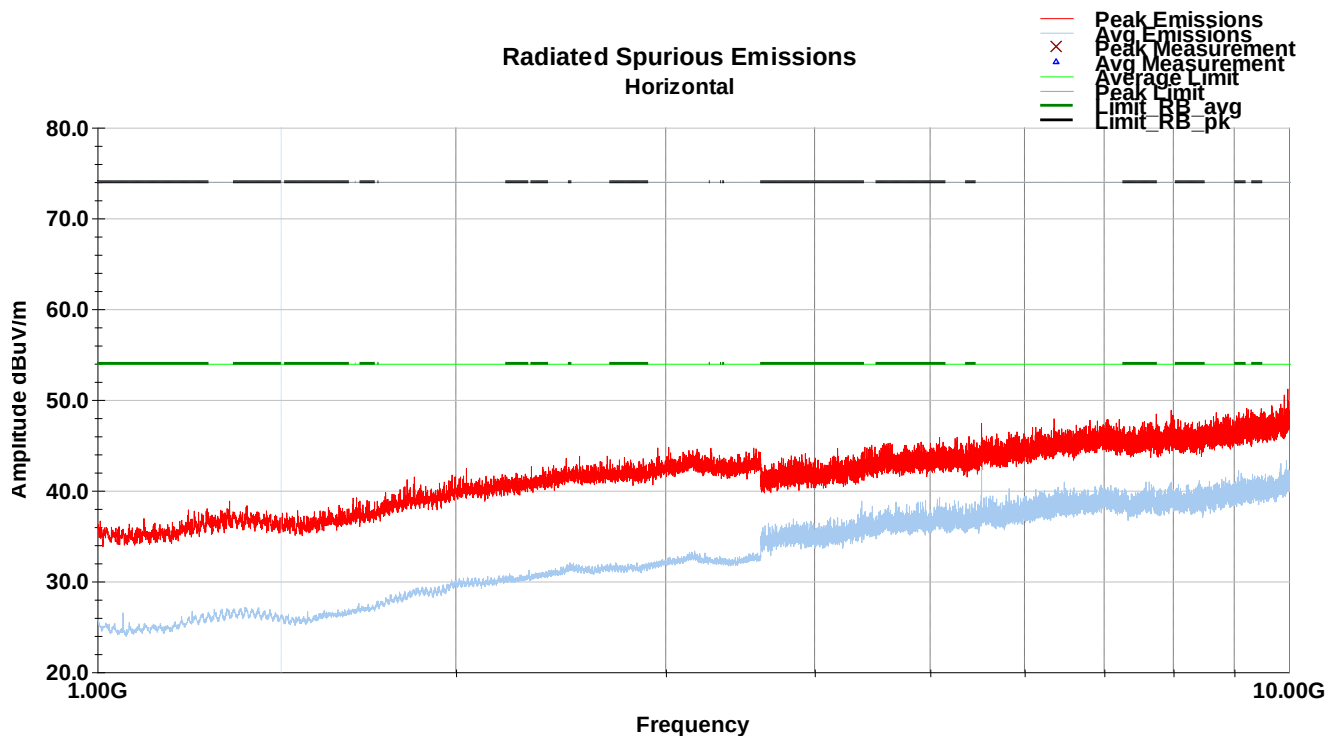
Horizontal Radiated Spurious Emissions – 30-1000MHz (HCH)



Vertical Radiated Spurious Emissions – 1-10GHz (HCH)



Horizontal Radiated Spurious Emissions – 1-10GHz (HCH)



7.6 *Test Data – Tabular Data*

There were no spurious emissions in restricted bands of operation that were detectable above the noise floor of the measurement system.

9 Conducted Emissions

9.1 Test Result

Test Description	Test Specification	Test Result
Conducted Emissions	RSS-GEN ANSI C63.4:2014	Compliant

9.2 Test Method

With the receiver's Resolution Bandwidth (RBW) set to 9 kHz, exploratory scans were performed over the measuring frequency range (0.15MHz to 30MHz) using a max hold mode incorporating a Peak detector and using the TILE! software. The final test data was measured using a 9kHz RBW in conjunction with a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

Frequency Range	Limits (dBμV)
0.15 to 0.5 MHz	Quasi-Peak 66 to 56 / Average 56 to 46
0.5 to 5 MHz	Quasi-Peak 56 / Average 46
5 to 30 MHz	Quasi-Peak 60 / Average 50

9.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 24.5 °C

Relative Humidity: 51.5 %

Atmospheric Pressure: 98.0 kPa

9.4 Test Equipment

Test End Date: 8/19/2021

Tester: LEM

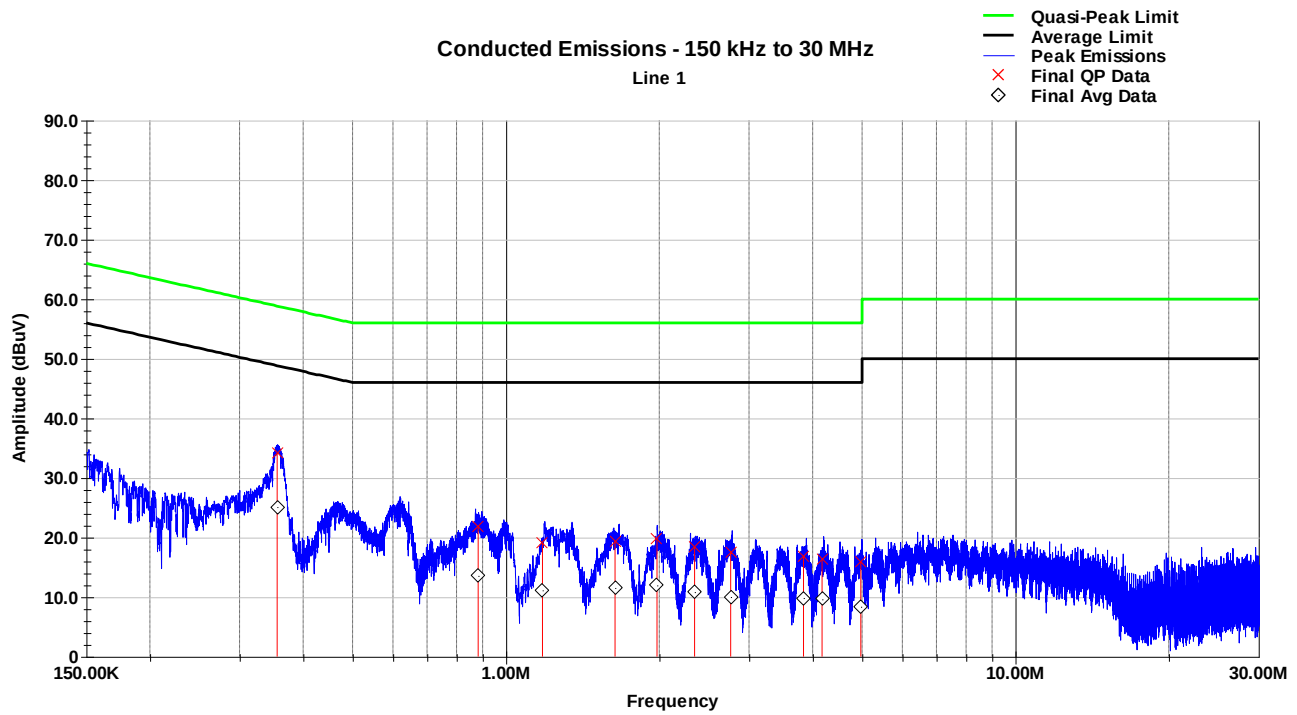
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17016	3-Sep-2020	3-Sep-2021
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	9-Jul-2021	9-Jul-2022
LINE IMPEDANCE STABILIZATION	NNB 51	TESEQ	B087573	5-Apr-2021	5-Apr-2022

Software:

TILE! software profile "Conducted Emissions T7 210216" dated 16 February 2021

9.5 Test Data

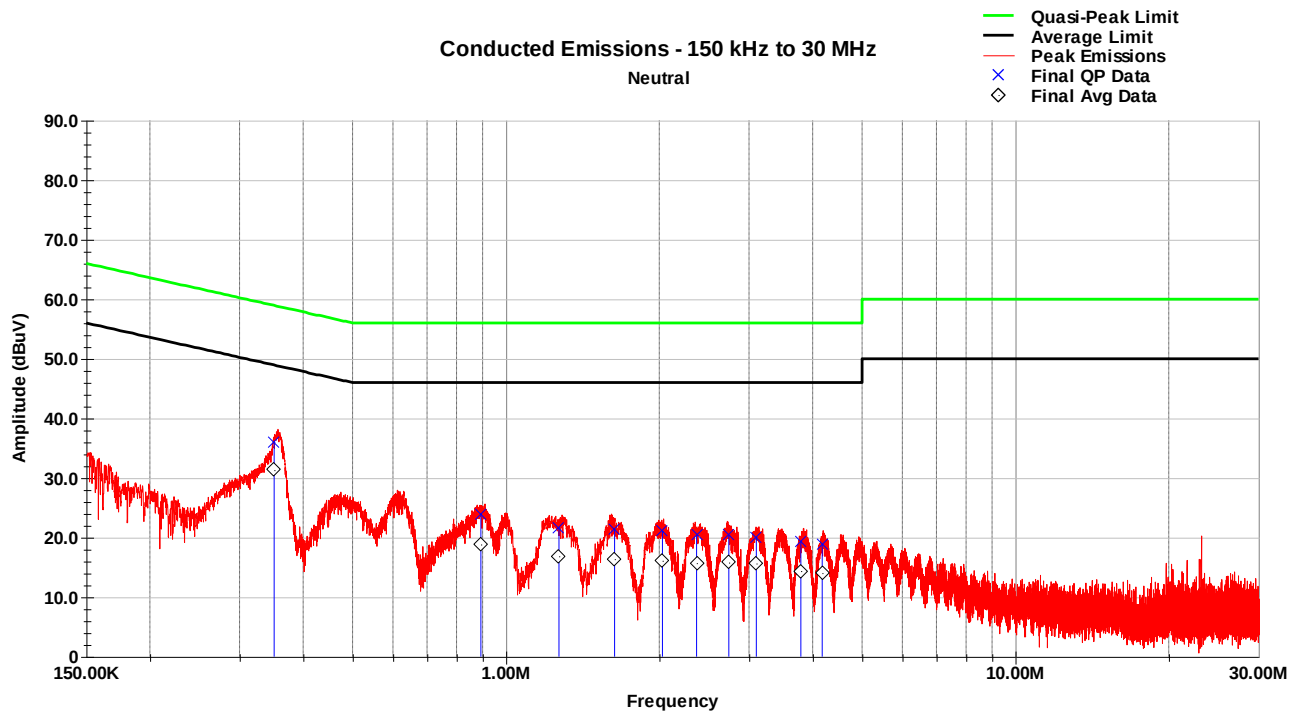
Line 1 Conducted Emissions – Peak Plot



Line 1 Conducted Emissions – Tabular Data

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.356	34.2	58.8	-24.6	25.1	48.8	-23.7
0.882	21.9	56.0	-34.1	13.6	46.0	-32.4
1.179	19.0	56.0	-37.0	11.2	46.0	-34.8
1.637	19.4	56.0	-36.6	11.6	46.0	-34.4
1.980	19.9	56.0	-36.1	12.0	46.0	-34.0
2.346	18.4	56.0	-37.6	10.9	46.0	-35.1
2.762	17.4	56.0	-38.6	10.0	46.0	-36.0
3.839	16.9	56.0	-39.1	9.9	46.0	-36.1
4.173	16.5	56.0	-39.5	9.6	46.0	-36.4
4.973	15.9	56.0	-40.1	8.4	46.0	-37.6

Neutral Conducted Emissions – Peak Plot



Neutral Conducted Emissions – Tabular Data

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.351	36.0	59.0	-23.0	31.3	49.0	-17.6
0.893	24.0	56.0	-32.0	18.9	46.0	-27.1
1.271	21.7	56.0	-34.3	16.9	46.0	-29.1
1.634	21.4	56.0	-34.6	16.4	46.0	-29.6
2.029	21.1	56.0	-34.9	16.1	46.0	-29.9
2.367	20.4	56.0	-35.6	15.7	46.0	-30.3
2.739	20.4	56.0	-35.6	15.8	46.0	-30.2
3.100	20.1	56.0	-35.9	15.7	46.0	-30.3
3.793	19.4	56.0	-36.6	14.4	46.0	-31.6
4.176	18.9	56.0	-37.1	14.1	46.0	-31.9

10 Measurement Uncertainty

The measurement uncertainty figures are be calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) $k = 2$ (which provide confidence levels of 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Parameter	Expanded Uncertainty for Normal k factor equal to 2	
	Required	Laboratory Actual
Radio Frequency	$\pm 1 \times 10^{-5}$	$\pm 9.8 \times 10^{-8}$
total RF power, conducted	± 1.5 dB	± 1.2 dB
RF power density, conducted	± 3 dB	± 0.7 dB
spurious emissions, conducted	± 3 dB	± 2.1 dB
all emissions, radiated	± 6 dB	± 4.8 dB
temperature	$\pm 1^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
humidity	± 5 %	± 3.5 %
DC and low frequency voltages	± 3 %	± 0.4 %

11 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	22 September 2021