

RADIO AND ELECTROMAGNETIC COMPATIBILITY TEST REPORT



Report Reference Number: E10402-2101_Tantalus_PP-1320 Power Meter & Radio Module_Rev 1.0
Total Number of Pages: 108
Date of Issue: October 8, 2021

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Laboratory Accreditations (per ISO/IEC 17025:2017)



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Manufacturer: Tantalus Systems Corp.
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Equipment Tested: PP-1320 Power Meter & Radio Module
Model No: PP-1320



REVISION HISTORY

Date	Report Number	Details	Author's Initials
October 8, 2021	E10402-2101_Tantalus_PP-1320 Power Meter & Radio Module_Rev 1.0	Final	RS
October 7, 2021	E10402-2101_Tantalus_PP-1320 Power Meter & Radio Module_Rev 0.0	Draft	RS
All previous versions of this report have been superseded by the latest dated revision as listed in the above table. Please dispose of all previous electronic and paper printed revisions accordingly.			

REPORT AUTHORIZATION

The data documented in this report is for the test equipment provided by the manufacturer. The tests were conducted on the sample equipment as requested by the manufacturer for the purpose of demonstrating compliance with the standards outlined in [Section I](#) of this report as agreed upon by the Manufacturer under the quote 21SH06221R1.

The Manufacturer is responsible for the tested product configurations, continued product compliance, and for the appropriate auditing of subsequent products as required. This report may comprise a partial list of tests that are required for FCC and ISSED Declaration of Conformity can only be produced by the manufacturer. This is to certify that the following report is true and correct to the best of our knowledge.



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QAI EMC ACCREDITATION

QAI EMC is your one-stop regulatory compliance partner for electromagnetic compatibility (EMC) and electromagnetic interference (EMI). Products are tested to the latest and applicable EMC/EMI requirements for domestic and international markets. QAI EMC goes above and beyond being a testing facility—we are your regulatory compliance partner. QAI EMC has the capability to perform RF Emissions and Immunity for all types of electronics manufacturing including Industrial, Scientific, Medical, Information Technology, Telecom, Wireless, Automotive, Marine and Avionics.

EMC Laboratory Location	FCC Designation (3m SAC)	IC Registration (3m SAC)	A2LA Certificate
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EMC Facility Burnaby BC, Canada





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Section I: GENERAL INFORMATION

1.1 Product Description

The information provided in this section is for the Equipment Under Test (EUT) and the corresponding Auxiliary Equipment needed to perform the tests as a complete system.



EUT: Itron Electrical Polyphase Meter

Equipment Under Test (EUT)

EUT	PP-1320
FCC ID	OZFDC1320
IC ID	3669A-DC1320
Frequency Range	902-928 MHz
FVIN	14.05
Firmware Operating System	Linux 4.19
Note: Highest frequency generated or tuned upon within the EUT is 927.83 MHz Radio Module used in EUT. FCC ID: OZFDC1320 IC ID: 3669A-DC1320	

1.2 Environmental Conditions

The equipment under test was operated and tested under the following environmental conditions:

Parameter	Conditions
Location	Indoors
Temperature	24.8°C
Relative Humidity	47.7 %
Atmospheric Pressure	101.2 kPa

1.3 Measurement Uncertainty

Parameter	Uncertainty
Radiated Emissions, 10kHz.-1GHz.	± 2.40 dB
Radiated Emissions, 1GHz.-40GHz.	± 2.48 dB
Conducted Emissions, 10kHz. to 40GHz.	± 2.82 dB
Radio Frequency	±1.5 x 10 ⁻⁵ MHz
Total RF Power Conducted	±1.36 dB
Spurious Emissions, Conducted	±1.36 dB
RF Power Density, Conducted	±1.36 dB
Temperature	±1°C
Humidity	±5 %
DC and low frequency voltages	±3 %

1.4 Worst Test Case

Worst-case orientation was determined during the preliminary testing.
The final radiated emissions were performed in the worst-case orientation.

1.5 Sample Calculations of Emissions Data

Radiated and conducted emissions were performed using EMC32 software developed by Rohdes & Schwarz. Transducer factors like Antenna factors, Cable Losses and Amplifier gains were stored in the test templates which are used to perform the emissions measurements. After test is finished, data is generated from the EMC32 consisting of product details, emission plots and final data tables as shown below.

Frequency (MHz)	Q-Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Ant. Ht. (cm)	Pol	Turntable Position (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
42.663900	33.0	1000.000	120.000	100.0	H	70.0	13.2	7.5	40.5

Quasi-Peak reading shown in the table above is already corrected by the software using correction factor shown in column “Corr.” The correction factor listed under “Corr.” table calculated as:

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable loss}$$

Or

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable Loss} - \text{Amp gain (if pre-amplifier was used)}$$

The final Quasi peak reading shown in the data is calculated by the software using following equation:

$$\text{Corrected Quasi-Peak (dBμV/m)} = \text{Raw Quasi-Peak Reading} + \text{Antenna factor} + \text{Cable loss}$$

To obtain the final Quasi-Peak or Average reading during power line conducted emissions, transducer factors are included in the final measurement as shown below.

Frequency (MHz)	Q-Peak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150	44.3	1000.000	9.000	GND	0.6	21.7	66.0

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150	27.2	1000.000	9.000	GND	0.6	28.8	56.0

Quasi Peak or Average reading shown in above table is already corrected by the software using the correction factor shown in column “Corr.” The correction factor listed under “Corr.” table calculated as:

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable loss}$$

The final Quasi-peak or Average reading shown in the data is calculated by the software using following equation:

$$\text{Corr. Quasi-Peak/Average Reading (dBμV)} = \text{Raw Quasi-Peak/Average Reading} + \text{Antenna factor} + \text{Cable loss}$$

The allowable margin from the limits, as per the standards, were calculated for both radiated and conducted emissions:

$$\text{Margin (dB)} = \text{Limit} - \text{Quasi-Peak or Average reading}$$

1.6 Test Equipment List

The tables below contain all the equipment used by QAI Laboratories in conducting all tests on the Equipment Under Test (EUT) as per Section 1.

Emissions Test Equipment

Sl. NO.	Manufacturer	Model	Description	Serial No.	S/W Version	Calibration Due Date
1	AH Systems	PAM118	Amplifier (10KHz-18GHz)	189	N/A	Conditional Use
2	EMCO	3825/2	LISN (150kHz-30MHz)	9002-1601	N/A	2023-Oct-01
3	ETS Lindgren	2165	Turntable	00043677	N/A	N/A
4	ETS Lindgren	2125	Mast	00077487	N/A	N/A
5	ETS Lindgren	S201	5-meter Semi-Anechoic Chamber	1030	N/A	N/A
6	Hewlett Packard	8449B	Preamplifier (1-26 GHz)	2933A00198	N/A	2022-Jan-22
7	Rohde & Schwarz	ESU40	EMI Receiver	100011	EMC32 v10.35.10/ FV 4.73 SP4	2023-Jul-05
8	Sunol Sciences	DRH-118	Horn Antenna, 1.0-18 GHz	A050905	N/A	2023-07-28
9	Sunol Sciences	SM46C	Turntable	051204-2	N/A	N/A
10	Sunol Sciences	TWR95	Mast	TREML0001	N/A	N/A
11	Sunol Sciences	JB3	Biconilog Antenna 30MHz – 3GHz	A120106	N/A	2022-May-10
12	Sunol Sciences	JB3	Biconilog Antenna 30MHz – 3GHz	A042004	N/A	2023-Jul-30
13	TTi	HA1600A	Power Analyzer; Harm/Flicker	318801	N/A	2021-Oct-01
14	TTi	AC1000A	Power Supply, Low Distortion	317113	N/A	2021-Oct-01

Note: Equipment listed above have 1 years calibration interval.

Measurement Software List

Manufacturer	Model	Version	Description
Rhode & Schwarz	EMC 32	10.35.10	Emissions Test Software
VI Automation	Via EMC Immunity Executive	1.0.308	Radiated and Conducted Immunity Test Program
TESEQ	WIN 3000	1.2.0	Surge, EFT & Voltage Dips Immunity Test Program
Thurlby Thandar Instruments	HA-PC Link Version	2.02	Harmonics and Flicker Test Program

Section II: EXECUTIVE SUMMARY OF STANDARDS AND LIMITS

2.1 Purpose

The purpose of this report is to demonstrate and document the compliance of “PP-1320 Power Meter” as per Sections 2.2, 2.3, 2.4 & 2.5 of this report (as below).

2.2 Scope

The information documented in this report is based on the test methods and levels as per Quote 21SH06221R1.

- RSS-132 Issue 3** – Cellular Telephone Systems Operating in the Bands 824-849 MHz. and 869-894 MHz.
RSS-Gen Issue 5 – General Requirements for Compliance of Radio Apparatus.
ICES-003 Issue 6 – Information Technology Equipment (Including Digital Apparatus).
– Limits and Methods of Measurement.

2.3 Summary of Results

The following tests demonstrate the testimony to “FCC and ISSED” Mark Electromagnetic compatibility testing for “PP-1320 Radio Module” manufactured by Tantalus Systems Corp.

Test or Measurement	Applicable FCC and IC Standard	Performance Criteria
Antenna Requirement	FCC CFR 47 Part 15.205, 152.9, 15.249 RSS-Gen Issue 5 RSS-210 Issue 9	Comply
Max. Peak Conducted and Radiated RF Output Power	FCC CFR 47 Part 15.205, 15.209, 15.249 RSS-210 Issue 9 RSS-132 Issue 3 (5.4)	Comply
Transmitter Unwanted Emissions	FCC CFR 47 Part 15.205, 15.209, 15.249 RSS-132 Issue 3 (5.5) RSS-210 Issue 9	Comply
Unintentional Radiated Emissions	FCC CFR 47 Part 15.209 (a) ICES-003 Issue 6 RSS-Gen Issue 5	Comply
Intentional Radiated Emissions	FCC CFR 47 Part 15.205, 152.9, 15.249 RSS-210 Issue 9 RSS-132 Issue 3 (5.6)	Comply
20dB Occupied Bandwidth	FCC CFR 47 Part 15.205, 152.9, 15.249 RSS-210 Issue 9 RSS-Gen Issue 5	Comply
99% Occupied Bandwidth	FCC CFR 47 Part 15.205, 152.9, 15.249 RSS-210 Issue 9 RSS-Gen Issue 5	Comply
Band Edge	FCC CFR 47 Part 15.205, 152.9, 15.249 RSS-210 Issue 9 RSS-Gen Issue 5	Comply
Time of Occupancy & Dwell Time	RSS-210 Issue 9 RSS-Gen Issue 5	Comply
Channel separation	FCC Title 47 CFR Part 15: Subpart C - §15.247 (a)(1) RSS-247-Issue 2	Comply
Number of Hopping . Channels	FCC Title 47 CFR Part 15: Subpart C - §15.247 RSS-247-Issue 2	Comply
RF Exposure Evaluation	FCC CFR 47 Part 15.205, 152.9, 15.249 RSS-210 Issue 9 RSS-Gen Issue 5	Comply

Note: The gain of the antenna is provided by the client to measure or calculate test results and is not measured by QAI.

2.4 Applicable Standards (Unintentional)

FCC, ISED – Emissions

Test or Measurement	Applicable Standards	Description	Result
Radiated Emissions	ICES-003 Issue 7 CFR Title 47 FCC Part 15 Subpart B	The radiated emissions are measured in the 150KHz-1000MHz range or upto the highest EUT frequency required by the standard.	Comply
Conducted Emissions		The Conducted Emissions are measured on the phase and Neutral Power lines in the 0.15 - 30.0 MHz range.	Comply

Method of Measurement:

For the radiated emissions, the Equipment under test (EUT) is positioned in the center of the turntable in the SAC. The Equipment under test (EUT) is then measured for all the radiated emissions using the spectrum analyzer and receiver using the appropriate antennas, amplifiers, attenuators, and filters.

The required Quasi-Peak CISPR bandwidth shall be 120 kHz for the range 30 – 1000 MHz A 1 MHz Resolution Bandwidth (RBW, CISPR Band E) shall be used and a 10 Hz Video Bandwidth (VBW). The ANSI C63.4 requirement for the placement of RF Absorber on the turntable Ground Plane shall be satisfied.

Emissions in both horizontal and vertical polarizations were measured while rotating the Equipment Under Test (EUT) on the turntable to maximize signal strength and the limit is adjusted as per the equation below. The result is added or subtracted to the required emission level to ensure compliance at the new distance.

$$20 \log \left(\frac{D1}{D2} \right); \quad \text{Where } D1 = \text{Current Distance} \\ D2 = \text{Required Distance}$$

2.5 Applicable Radiated Emission Limits (Unintentional)

ICES-003 Issue 7 – Class B

Frequency (MHz)	Field Strength Quasi Peak – Class B		Result
	(dBµV/m @ 3m SAC)	(dBµV/m @ 10m OATS)	
30 – 88	40.0	30.0	Comply
88 – 216	43.5	33.1	
216 – 230	46.0	35.6	
230 – 960	47.0	37.0	
960 – 1000	54.0	43.5	
Note 1: The lower limit shall apply at the transition frequency.			
Note 2: Additional provisions may be required for cases where interference occurs.			

FCC Title 47 CFR Part 15 – Class B

Frequency (MHz)	Field Strength Quasi Peak – Class B		Result
	(dBµV/m @ 3m SAC)	(dBµV/m @ 10m OATS)	
30 – 88	40.0	29.5	Comply
88 – 216	43.5	33.1	
216 – 960	46.0	35.6	
960 – 1000	54.0	43.5	
Note 1: The lower limit shall apply at the transition frequency.			
Note 2: Additional provisions may be required for cases where interference occurs.			

2.6 Applicable Conducted Emission Limits (Unintentional)

FCC/ISED for above standards – Class B

Frequency (MHz)	Conducted Limit (dBμV) – Class B		Result
	Quasi-Peak	Average	
0.15 – 0.50	66.0 to 56.0	56.0 to 46.0	Comply
0.50 – 5	56.0	46.0	
5 – 30	60.0	50.0	
Note 1: The lower limit shall apply at the transition frequencies.			
Note 2: The limit decreases linearly with the logarithm of the frequency in the 0.15 to 0.50 MHz			

Section III: DATA & TEST RESULTS

3.1 Antenna Requirements

Date Performed: July 24, 2020

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-Gen Issue 5

Test Method: ANSI C63.10:2013

Applicable Regulations:

The purpose of this requirement is to make certain that no other antenna, except for that provided by the responsible party, shall be used with the Equipment-Under-Test (EUT) as defined in [Section 1.1](#).

“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. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. “The installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.”

Note: The gain of the antenna is provided by the client to measure or calculate test results and is not measured by QAI.

Modifications: No modification was required to comply for this test

Final Result: Limited Family Modular Approval Passed!

3.2 Max. Peak Conducted and Radiated RF Output Power

Date Performed: July 24, 2020

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-132 Issue 3 (5.4)

Test Method: ANSI C63.10:2013

Test Requirement:

The transmitter output power shall be measured in terms of average power. The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts. Refer to SRSP-503 for base station e.i.r.p. limits. In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

As per §15.249(d):

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 § 15.209, whichever is the lesser attenuation.

As per RSS-210 F.1(e):

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits specified in RSS-Gen, whichever is less stringent.

Measurement Method:

The measurement method used was Section 6.10.6.2 Marker-delta Method of ANSI C63.10-2013 standard.

Modifications: No modification was required to comply for this test.

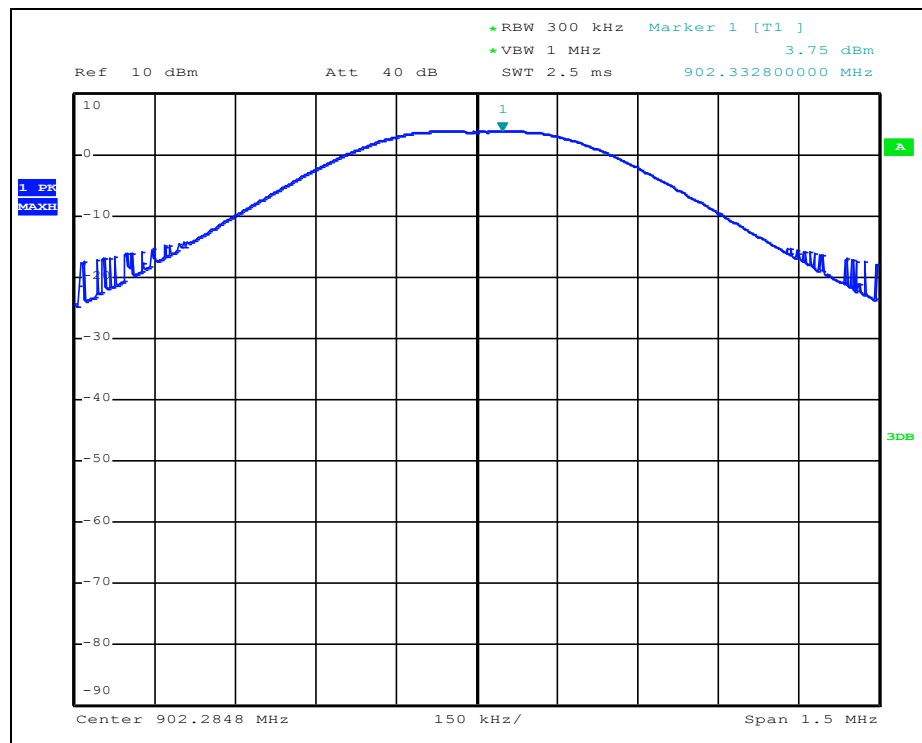
Final Result: The EUT **complies** with the applicable standard.

Table 1: Data Rates

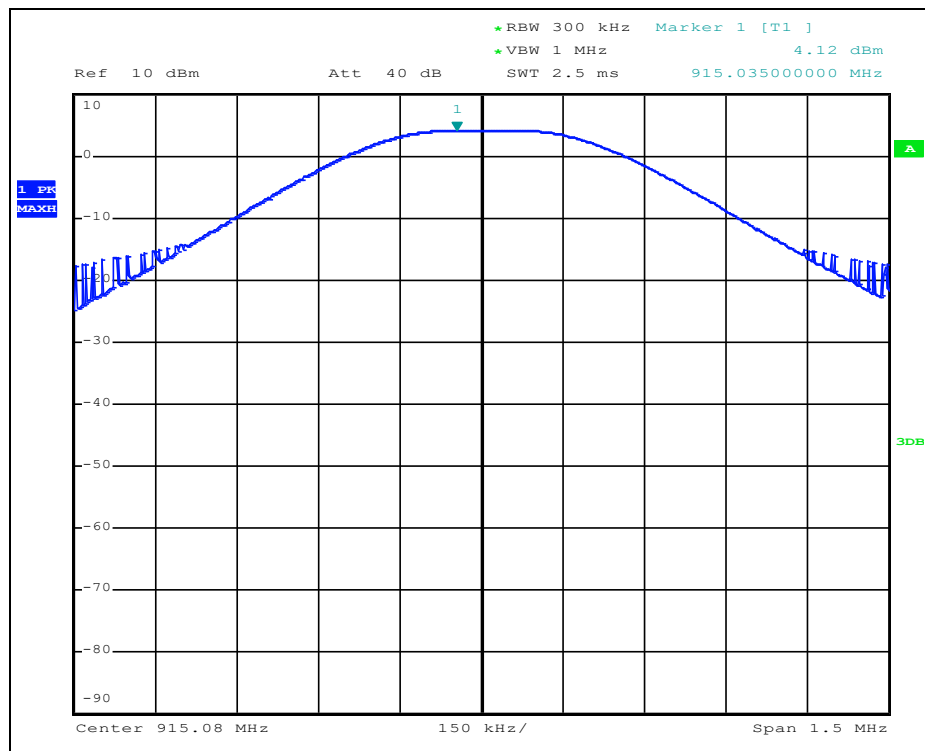
Type	Date Rates (Kbps)
Low Data Rate	10
High Data Rate	70
Third Party	37.5

Measurement Data and Plot:

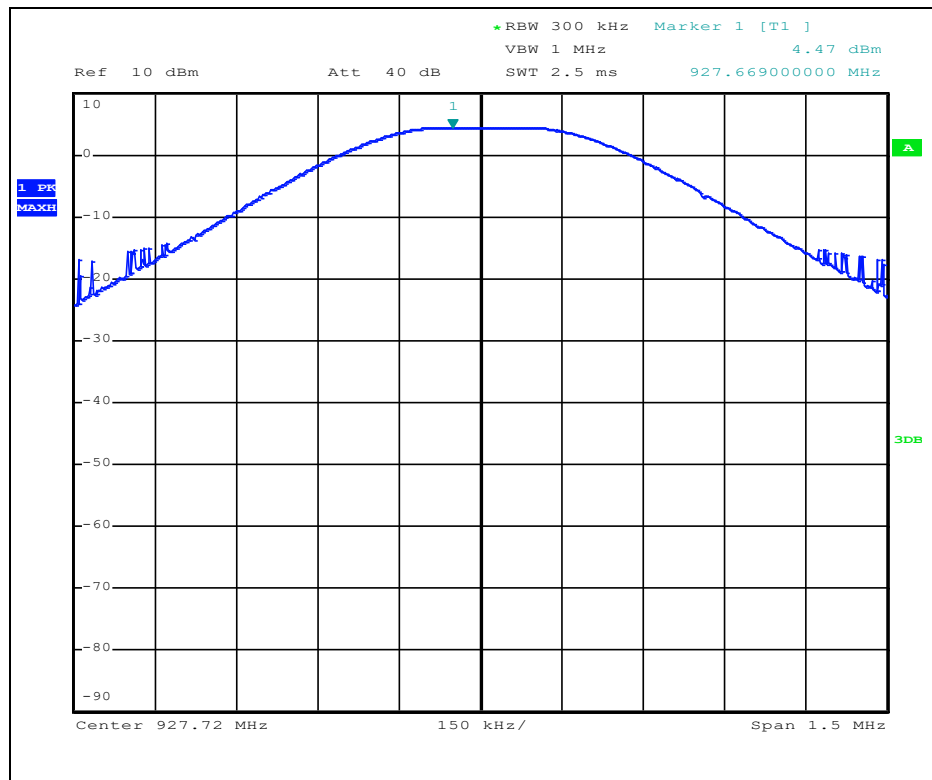
a) Conducted measurements



Plot 1: Max. Peak Conducted RF Power Output at Low Channel



Plot 2: Max. Peak Conducted RF Power Output at Mid Channel



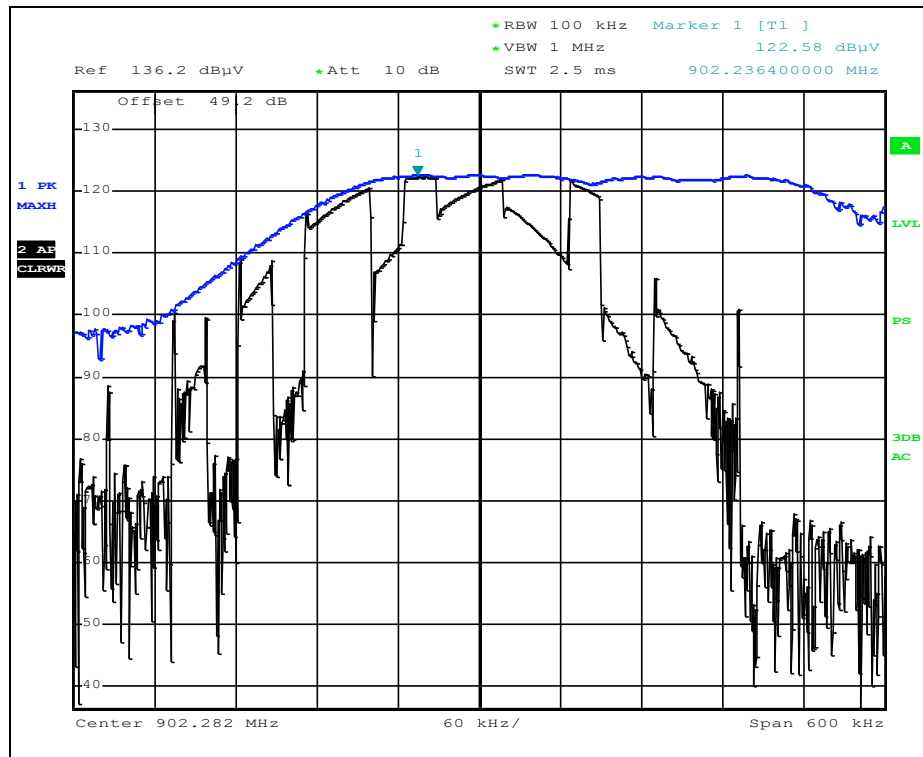
Plot 3: Max. Peak Conducted RF Power Output at High Channel

Table 2: Max. Conducted RF Output Power

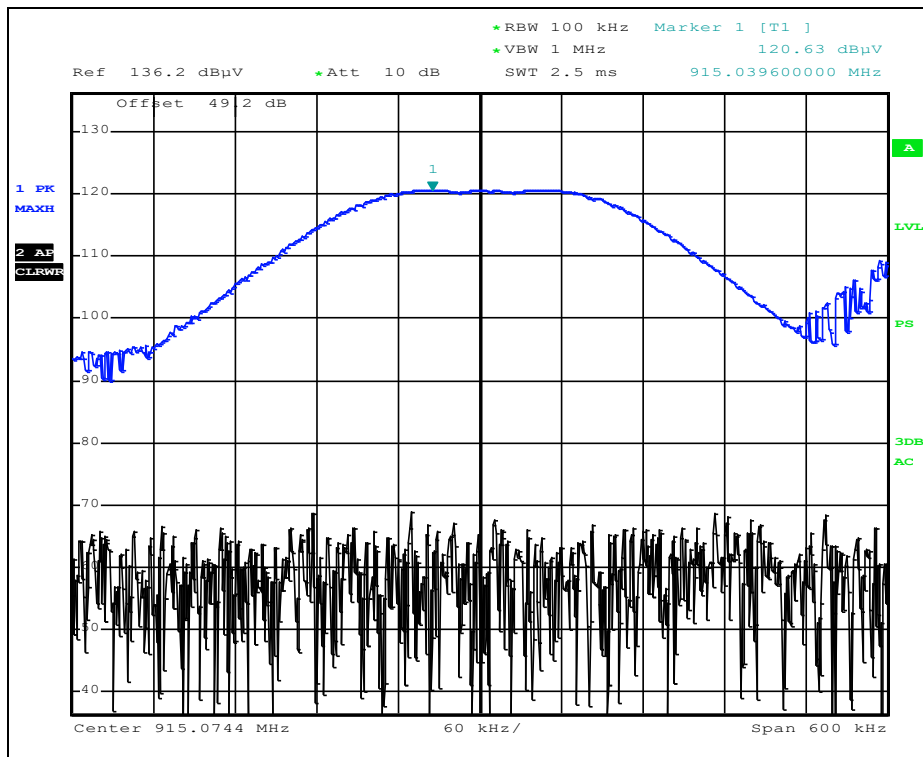
Carrier Frequency (MHz)	Raw Peak (dBm)	Attenuator (dB)	Corrected Peak (dBm)	Antenna Gain dBi	EIRP dBm	Limit dBm	Margin dB	Results
902.2	3.75	22.2	25.95	1.4	27.35	30	2.65	Comply
914.9	4.12	22.2	26.32	1.4	27.72	30	2.28	Comply
927.7	4.47	22.2	26.67	1.4	28.07	30	1.93	Comply

b) Radiated measurements

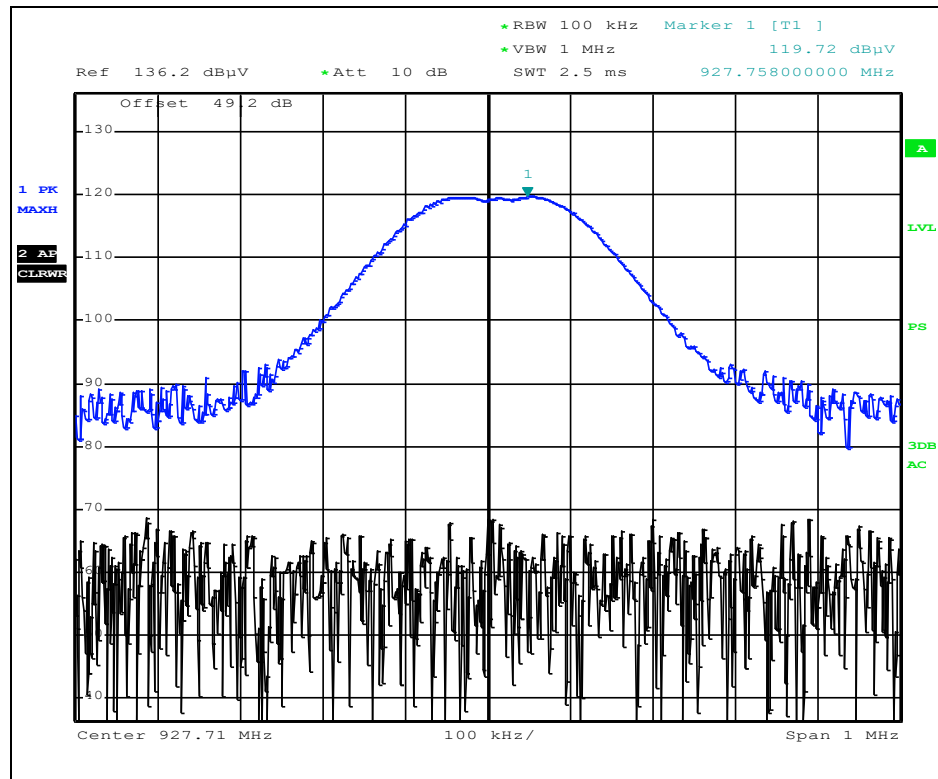
a) Low Band



Plot 4: Max. Peak Radiated RF Power Output at Low Channel



Plot 5: Max. Peak Radiated RF Power Output at Mid Channel



Plot 6: Max. Peak Radiated RF Power Output at High Channel

Table 3: Max. Radiated RF Output Power

Carrier Frequency (MHz)	Peak (dBuV/m @ 3m)	EIRP	Limit dBm	Margin dB	Results
902.2	122.58	27.35	30	2.65	Comply
914.9	120.62	25.40	30	4.6	Comply
927.7	119.72	24.49	30	5.51	Comply

3.3 Transmitter Unwanted Emissions Bandedge

Date Performed: July 27, 2021

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-132 Issue 3 (5.5)

Test Method: ANSI C63.10:2013

Test Requirement:

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dB) by at least $43 + 10 \log_{10} p$ (watts).
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dB) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

As per §15.249(d):

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 § 15.209, whichever is the lesser attenuation.

As per RSS-210 F.1(e):

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits specified in RSS-Gen, whichever is less stringent.

Measurement Method:

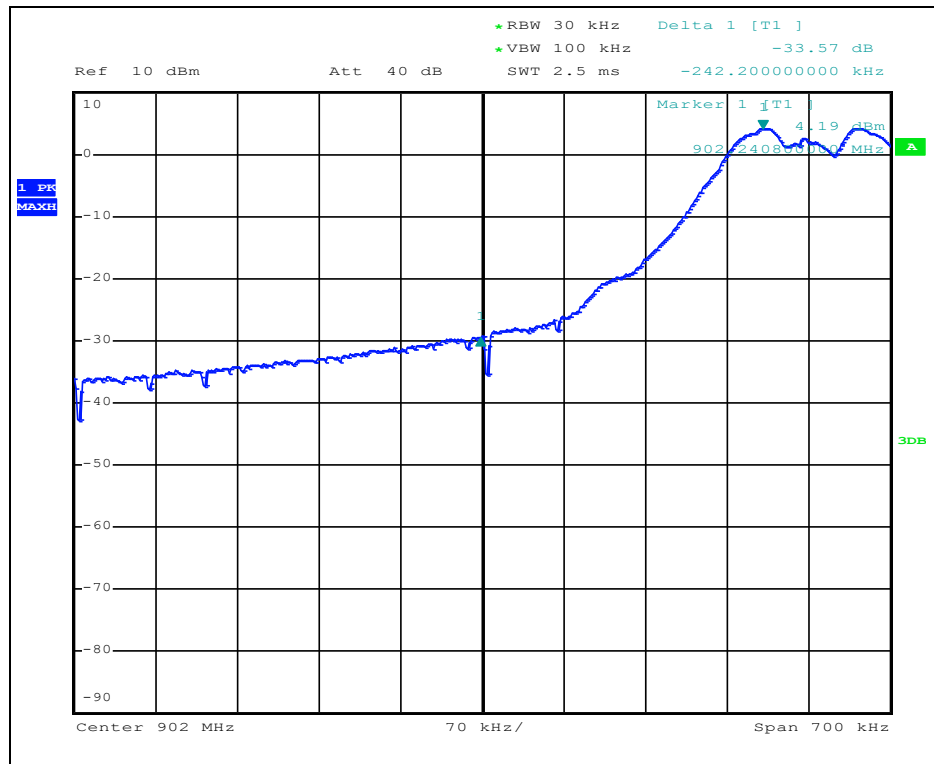
The measurement method used was Section 6.10.6.2 Marker-delta Method of ANSI C63.10-2013 standard.

Modifications: No modification was required to comply for this test.

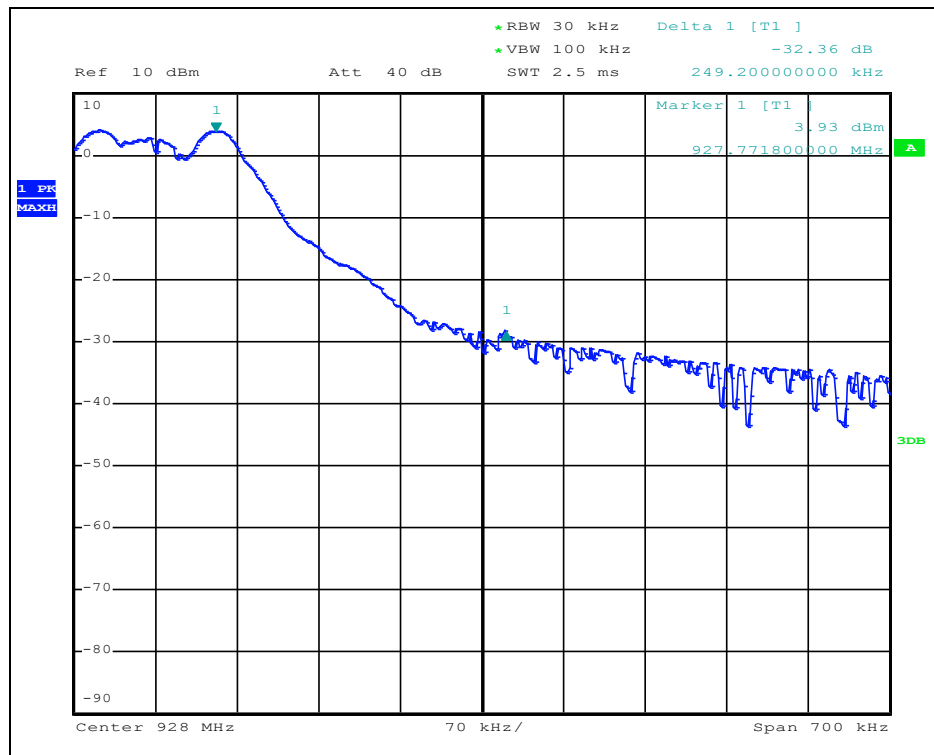
Final Result: The EUT **complies** with the applicable standard.

Measurement Data and Plot:

a) Third party data rate mode

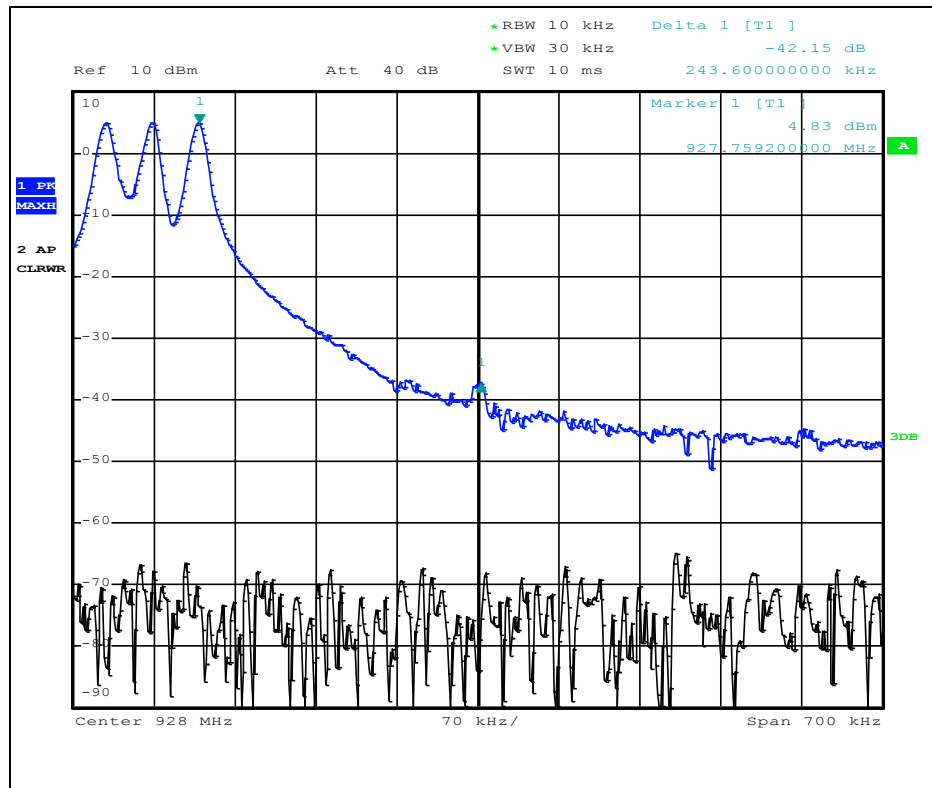


Plot 7: Band edge, low side

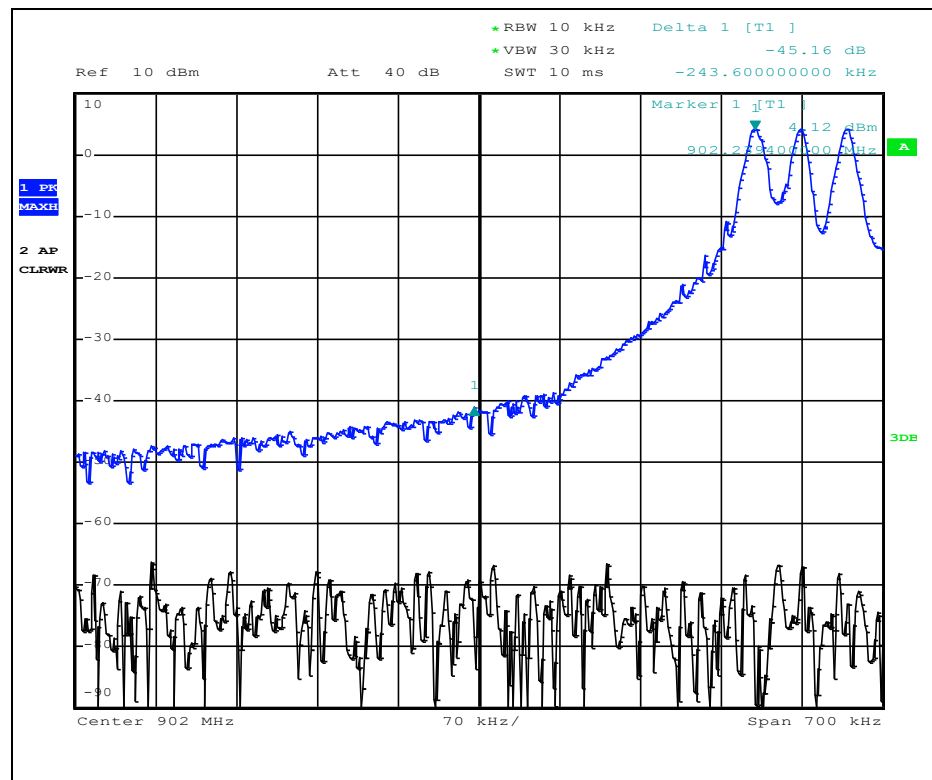


Plot 8: Band edge, high side

b) Low data rate mode

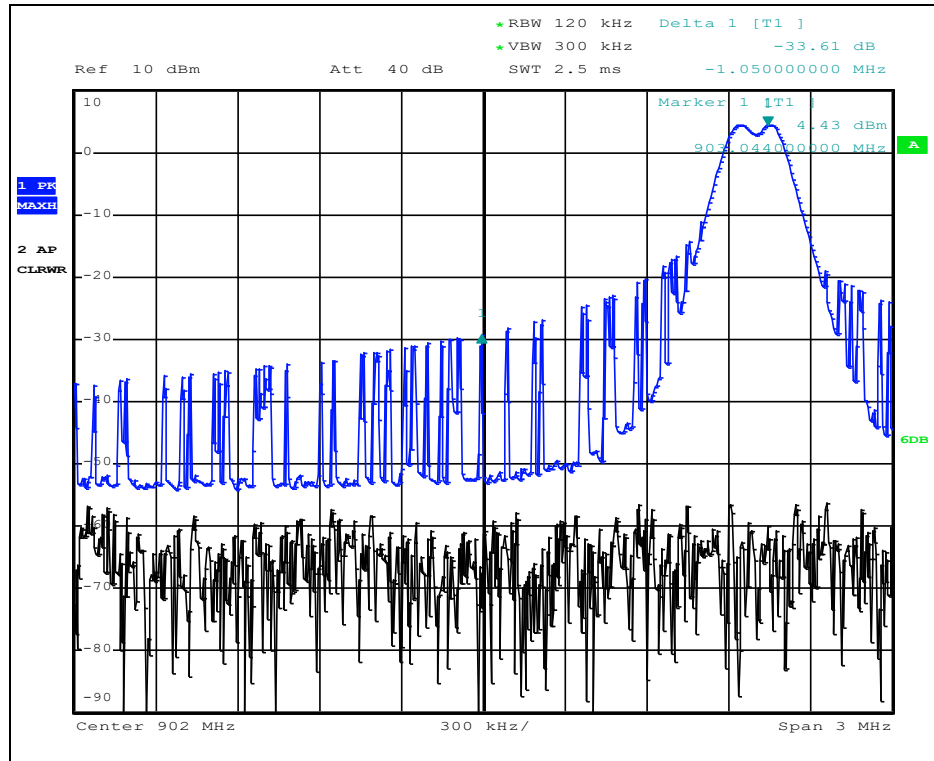


Plot 9: Band edge, High side

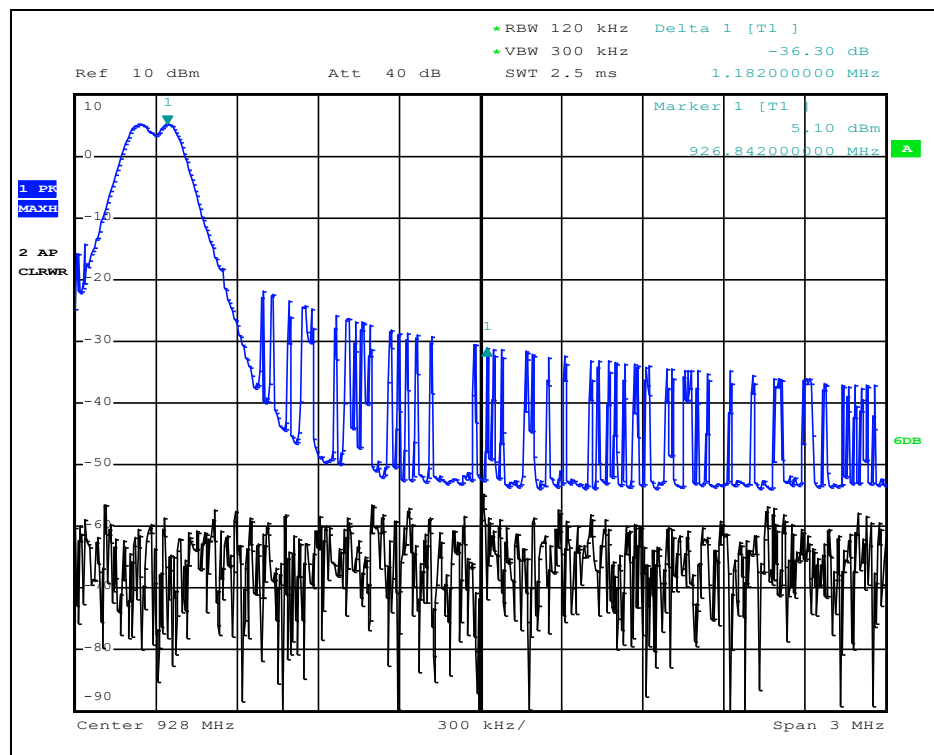


Plot 10: Band edge, Low side

c) High data rate mode

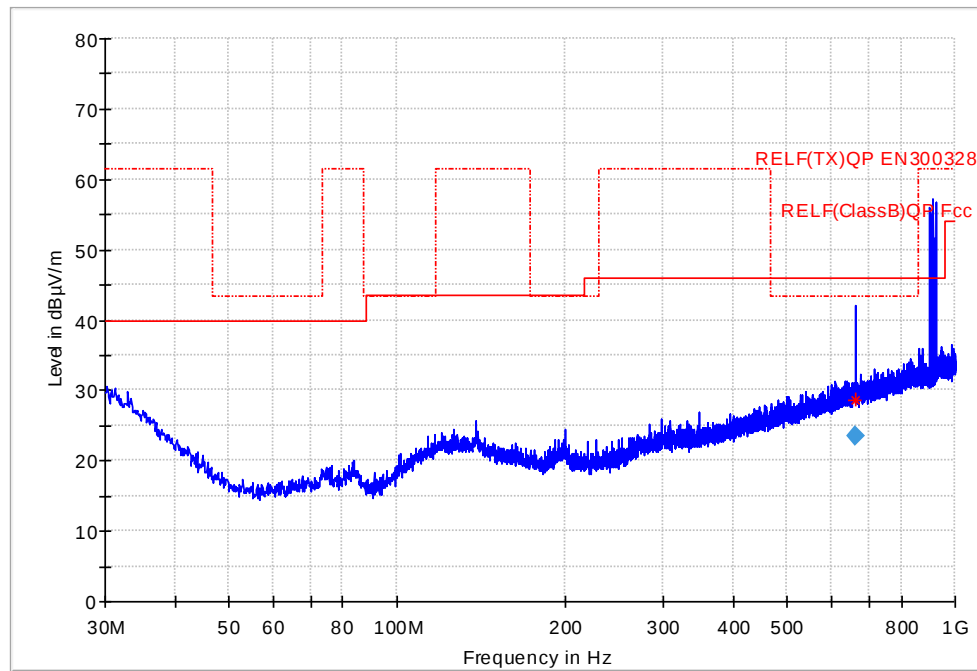


Plot 11: Band edge, low side



Plot 12: Band edge, high side

3.4 Un-Intentional Radiated Emissions



Plot 13: Radiated Emissions: 30MHz-1GHz

Table 4: Data of Radiated Emissions: 30MHz-1GHz

Frequency (MHz)	Quasi Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
664.1350	23.4	46.0	22.6	120.000	143.0	H	240	26.6

3.5 Intentional Radiated Emissions

Date Performed: July 24, 2020

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-132 Issue 3 (5.6)

Test Method: ANSI C63.10:2013

Test Requirement:

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Harmonics	
	mV/m	dB μ V/m	μ V/m	dB μ V/m
902-928	50	94	500	54
2400-2483.5	50	94	500	54
5725-5875	50	94	500	54
24.0-24.25	250	108	2500	68

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 field strength limits listed in Rss-Gen Issue 4, whichever is less stringent.

In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency if the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Unwanted emissions falling into restricted bands of shall comply with the limits specified below

Frequency (MHz)	Field Strength	
	μ V/m @ 3-m	Calculated dB μ V/m at 3m
30 – 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

FCC PART 15.205-RESTRICTED BANDS OF OPERATION

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.

RESTRICTED FREQUENCY BANDS (RSS-GEN ISSUE 4)

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	Certain frequency bands listed in table 2 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138	--	

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Test Setup:

The EUT was tested in our 3 m SAC and was positioned on the center of the turntable. The transmitter was set for continuous transmission. The RF radiated emissions were measured in the frequency range of 150kHz to 18 GHz. The EUT was pre-scanned in 3 different orthogonal orientations and was found to radiate highest when placed flat on the tabletop as indicated in the test photos.

For the intentional radiated emissions, the power was 4.5V and 0.6 A

Measurement Method: ANSI C63.10:2013 radiated emissions procedure was followed to demonstrate the compliance of Bluetooth low energy.

Modifications: No modification was required to comply for this test.

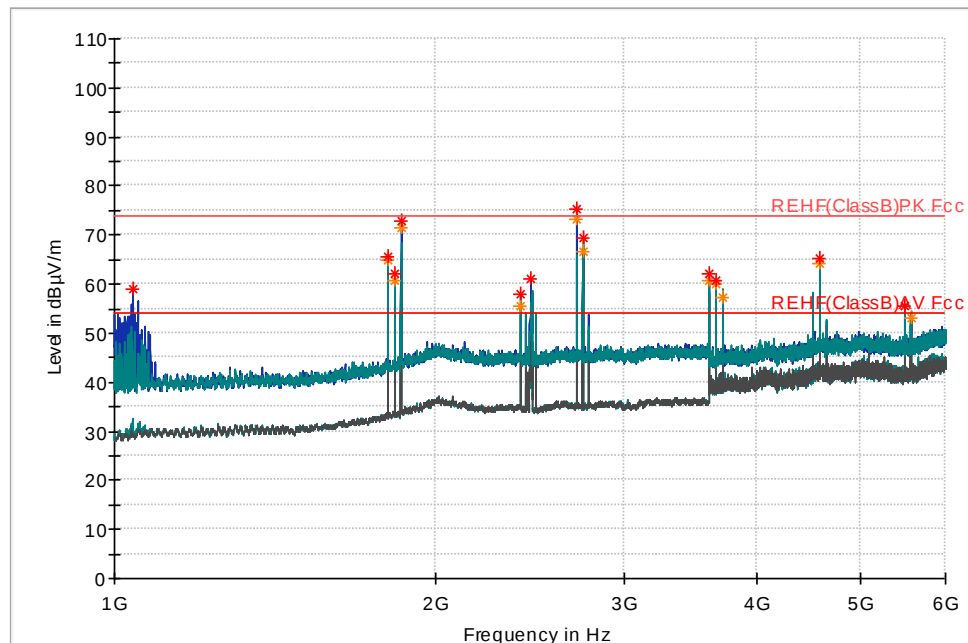
Final Result: The EUT complies with the applicable standard.

Measurement Data and Plot:

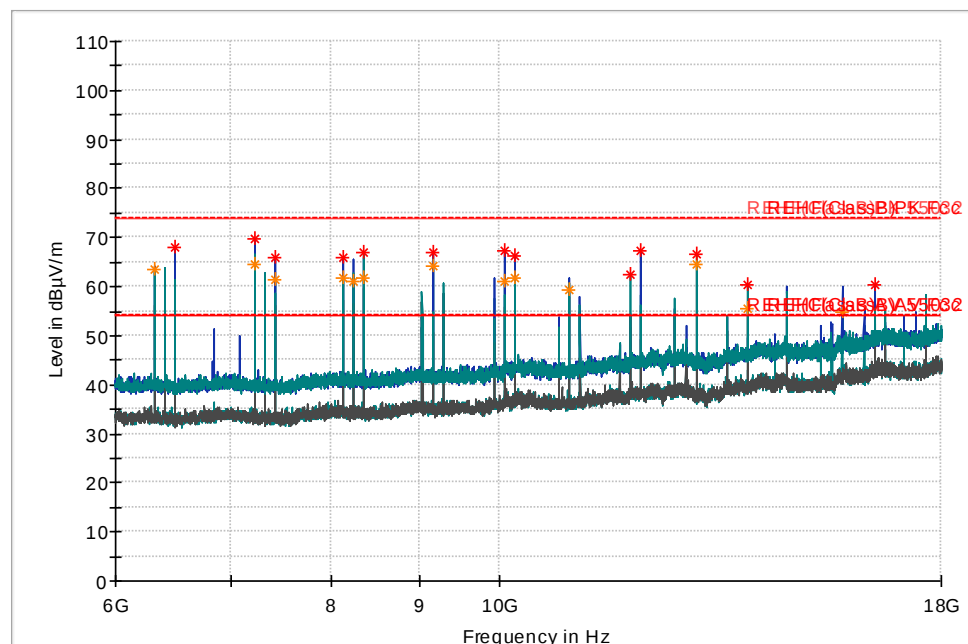
Notes: The limit lines shown in the plot and table are for emissions that fall into the restricted bands.

All other emissions must be less than -20dBc of the fundamental.

In accordance with DA 00-705 a duty cycle correction factor can be applied to further reduce the average measurement. The dwell time for this product is less than 5mS and therefore 20dB can be extracted from the values shown in the plot and table to demonstrate compliance.



Plot 14: TX Mode- Radiated Emissions - PP 1320: 1GHz-6GHz



Plot 15: TX Mode – Radiated Emissions – PP 1320: 6GHz-18GHz – for reference only

Table 5: Data Radiated Emissions: 1GHz-10GHz

Frequency (MHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Duty Cycle (dB)	Corrected Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1039.5	59.14	---	28	---	74.0	14.86	250	H	329	-8.3
1039.5	---	57.09	28	29.09	54.0	24.91	250	H	329	-8.3
1804.5	65.51	---	28	---	103.3	37.79	250	H	264	-2.9
1804.5	---	64.78	28	36.78	83.3	46.52	250	H	264	-2.9
1830.0	62.04	---	28	---	103.3	41.26	250	H	215	-2.5
1830.0	---	60.70	28	32.70	83.3	50.60	250	H	215	-2.5
1855.5	72.80	---	28	---	103.3	30.50	200	H	248	-2
1855.5	---	71.49	28	43.49	83.3	39.81	200	H	248	-2
2401.5	57.96	---	28	---	103.3	45.34	200	V	233	-0.7
2401.5	---	55.55	28	27.55	83.3	55.75	200	V	233	-0.7
2454.5	60.93	---	28	---	103.3	42.37	200	H	248	-0.6
2454.5	---	58.49	28	30.49	83.3	52.81	200	H	248	-0.6
2707.0	72.02	---	28	---	74.0	1.98	100	H	199	-0.2
2707.0	---	70.24	28	42.24	54.0	11.76	100	H	199	-0.2
2745.0	69.34	---	28	---	74.0	4.66	300	V	282	-0.2
2745.0	---	66.76	28	38.76	54.0	15.24	300	V	282	-0.2
3609.0	62.21	---	28	---	74.0	11.79	100	V	261	1.2
3609.0	---	60.78	28	32.78	54.0	21.22	100	V	261	1.2
3660.5	60.81	---	28	---	74.0	13.19	150	V	279	1.4
3660.5	---	59.99	28	31.99	54.0	22.01	150	V	279	1.4
3710.5	59.12	---	28	---	74.0	14.88	200	V	316	1.6
3710.5	---	57.30	28	29.30	54.0	24.70	200	V	316	1.6
4575.5	65.30	---	28	---	74.0	8.70	150	V	333	3.8
4575.5	---	64.38	28	36.38	54.0	17.62	150	V	333	3.8
6320.7	63.23	---	28	---	103.3	40.07	250	H	329	-8.3
6320.7	---	61.70	28	33.70	83.3	49.60	250	H	329	-8.3
6421.7	68.23	---	28	---	103.3	35.07	250	H	329	-8.3
6421.7	---	65.70	28	37.70	83.3	45.60	250	H	329	-8.3
7420.8	70.49	---	28	---	74.0	3.51	250	H	264	-2.9
7420.8	---	68.33	28	40.33	54.0	13.67	250	H	264	-2.9
8234.4	69.68	---	28	---	74.0	4.32	250	H	215	-2.5
8234.4	---	66.10	28	38.10	54.0	15.90	250	H	215	-2.5
8353.9	62.92	---	28	---	74.0	11.08	200	H	248	-2
8353.9	---	61.27	28	33.27	54.0	20.73	200	H	248	-2
9150.5	67.39	---	28	---	74.0	6.61	200	V	233	-0.7
9150.5	---	66.03	28	38.03	54.0	15.97	200	V	233	-0.7

Note: NONE Restricted band 20 dB below the max peak 123.3-20=103.3 dBuV/m



3.6 20dB Occupied Bandwidth

Date Performed: July 24, 2021

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-Gen Issue 5

Test Method: ANSI C63.10:2013

Test Requirement:

The emission bandwidth (20dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 20dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3× the resolution bandwidth.

Test Setup:

The EUT was tested in our 3 m SAC and was positioned on the center of the turntable. The transmitter was set for continuous transmission.

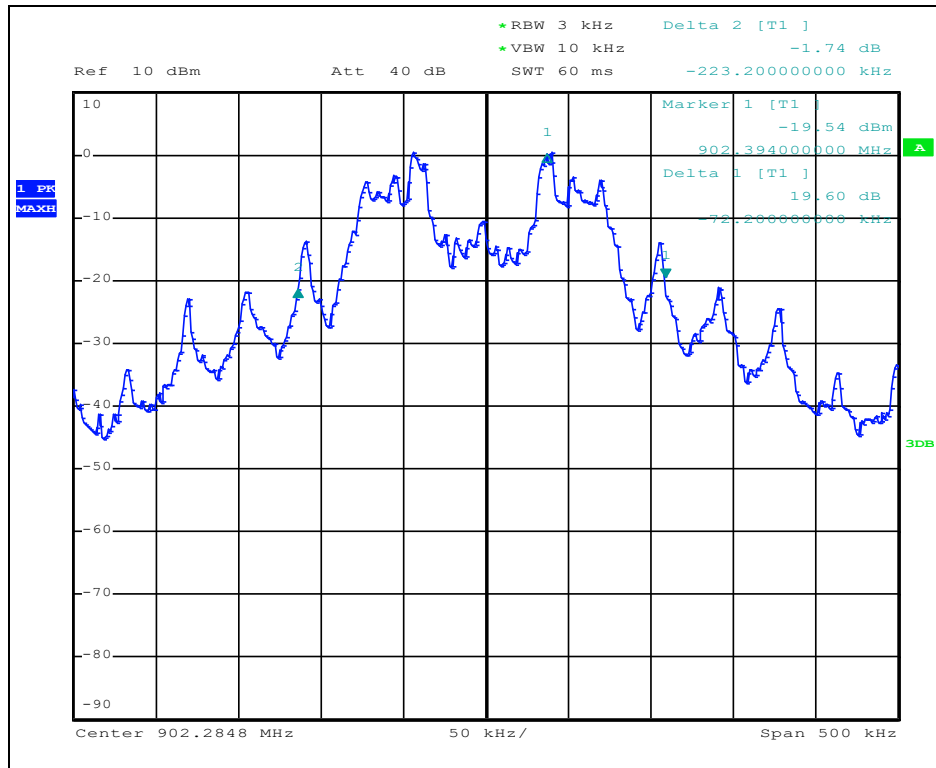
Measurement Method: As called in ANSI C63.10-2013.

Modifications: No modification was required to comply for this test.

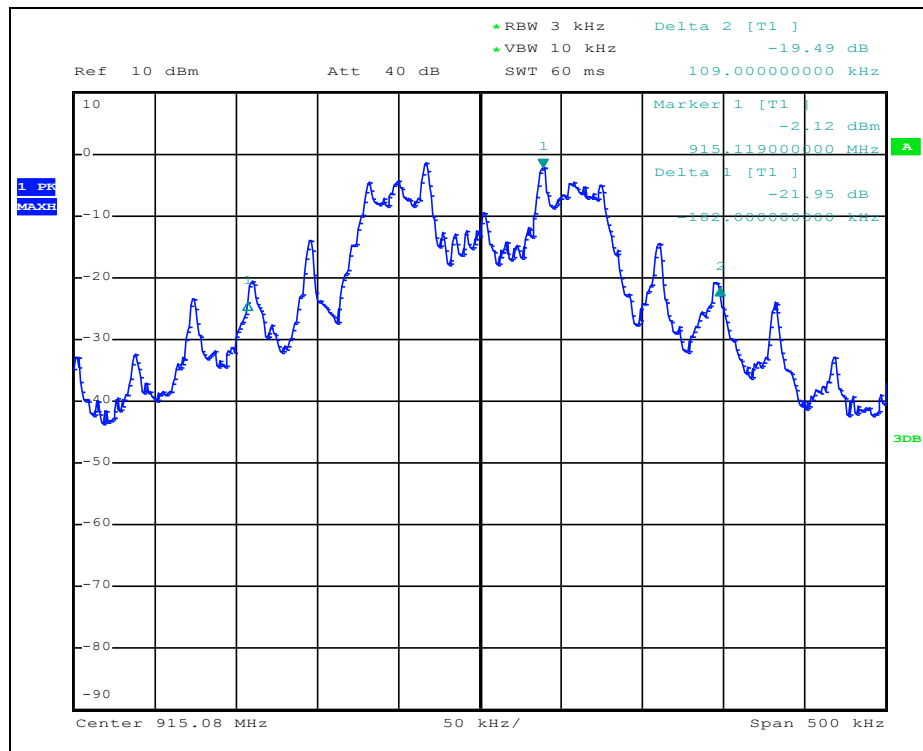
Final Result: The EUT **complies** with the applicable standard.

Measurement Data and Plot:

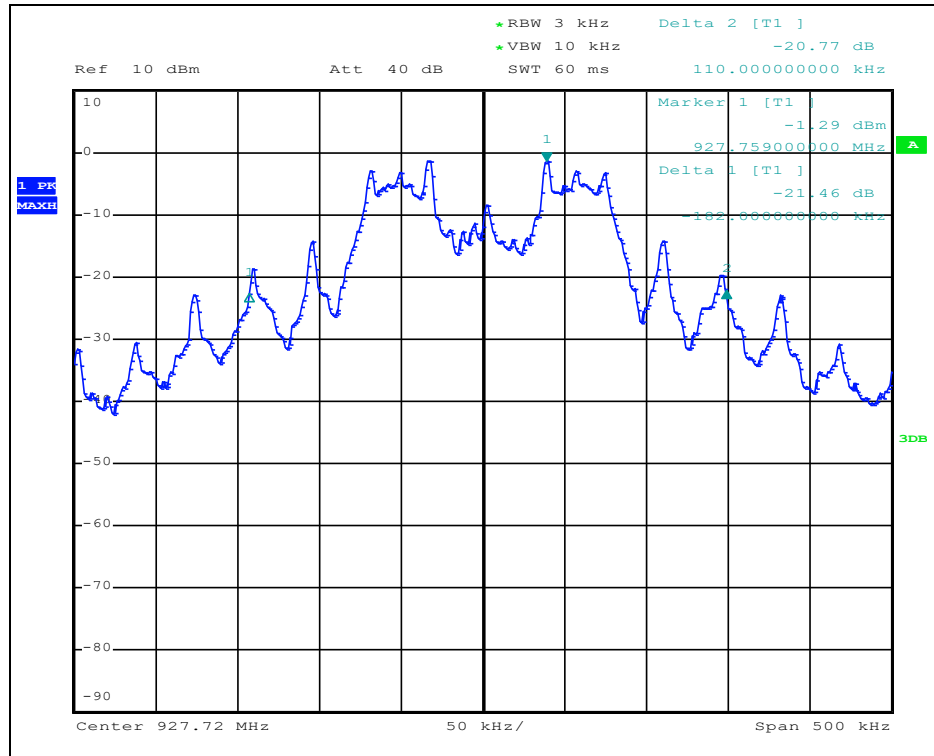
a) High Data Rates



Plot 16: 20dB Occupied Bandwidth of Low Channel



Plot 17: 20dB Occupied Bandwidth of Mid Channel

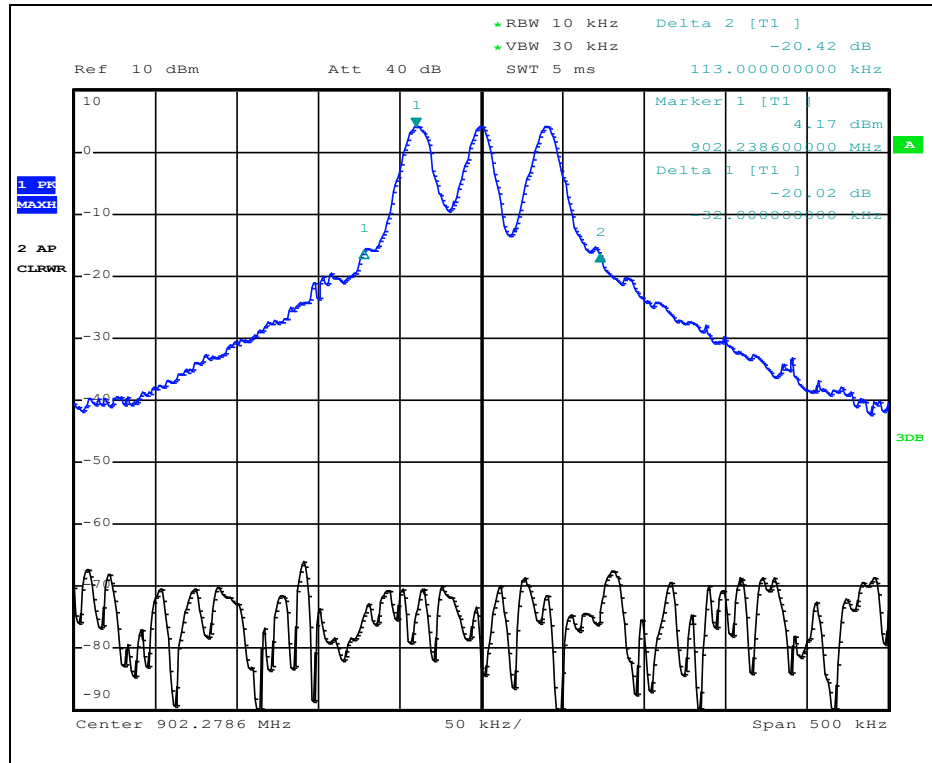


Plot 18: 20dB Occupied Bandwidth of High Channel

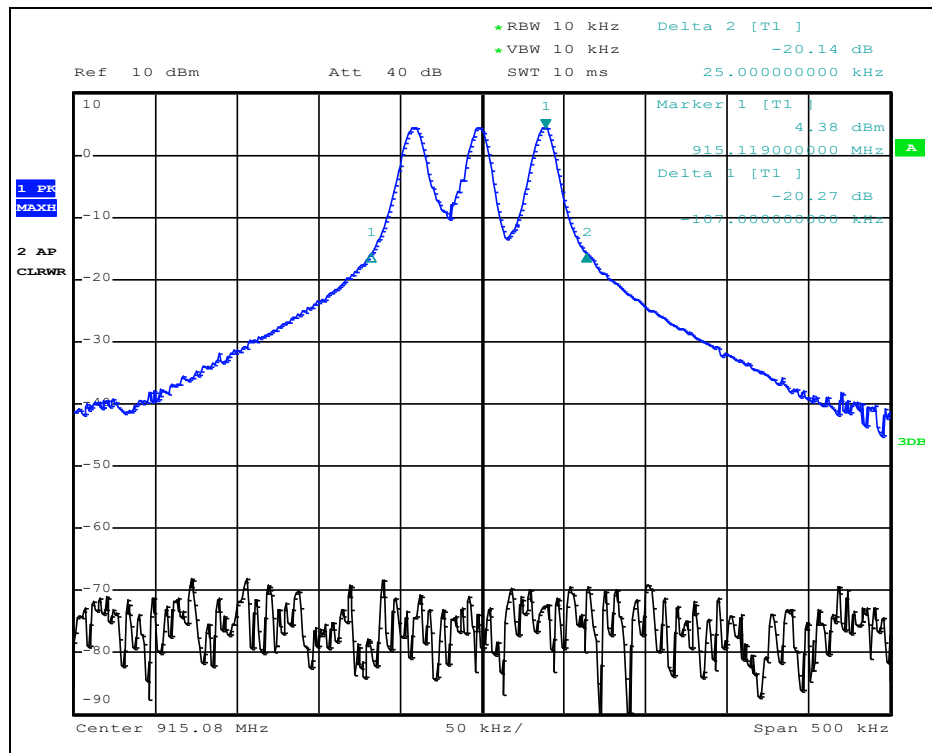
Table 6: Data: 20dB Occupied Bandwidth

Channel	Frequency (MHz)	20dB Bandwidth (kHz)
Low	902.3	295
Middle	915.1	292
High	927.7	292

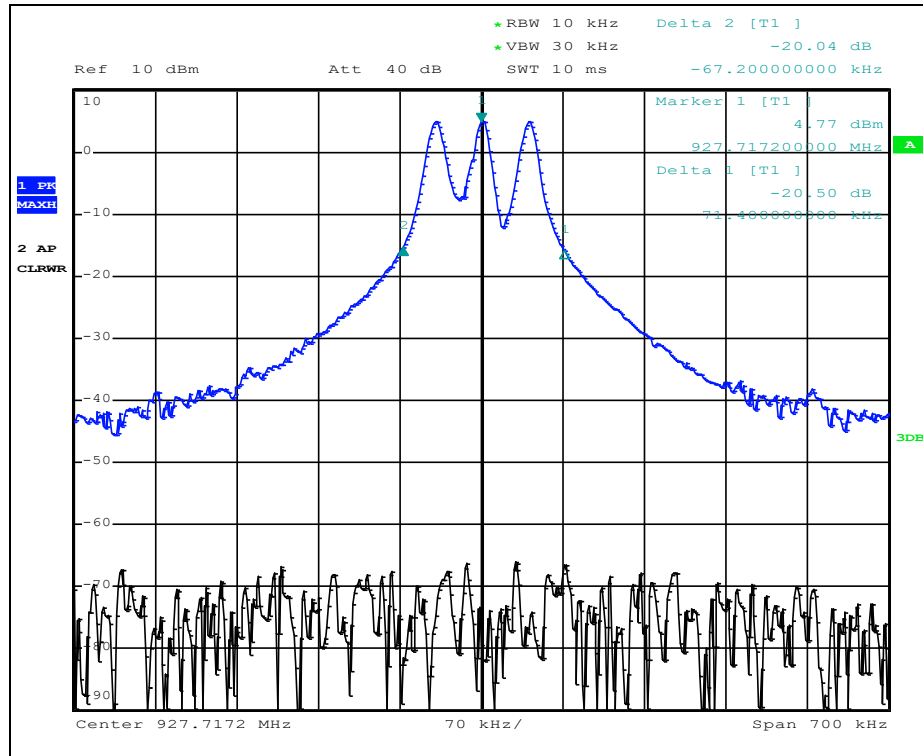
b) Low Data Rates



Plot 19: 20dB Occupied Bandwidth of Low Channel



Plot 20: 20dB Occupied Bandwidth of Mid Channel

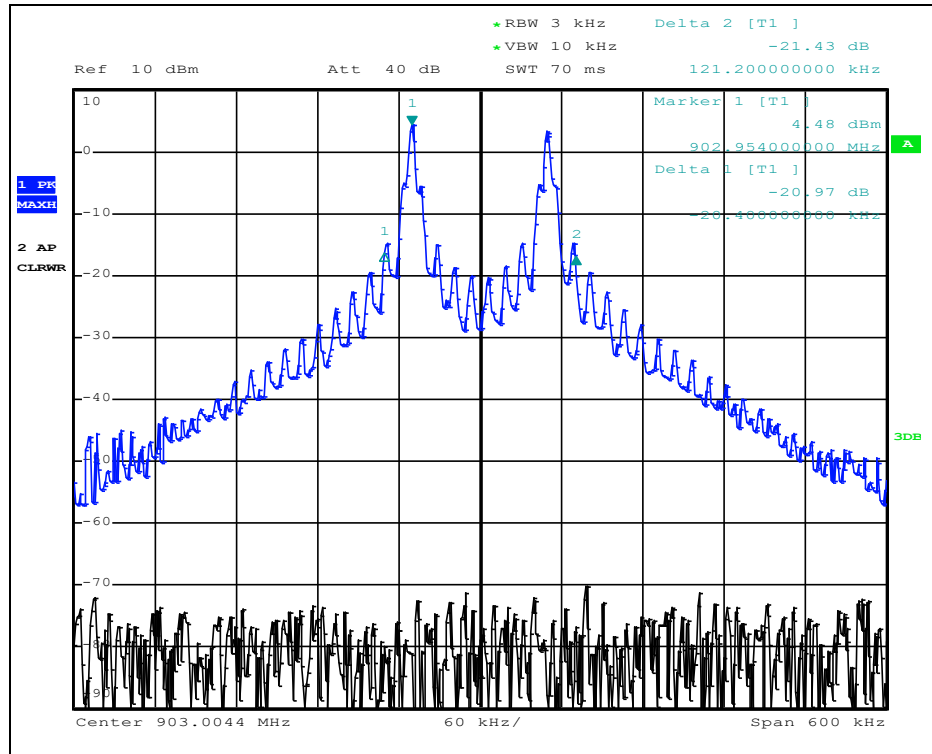


Plot 21: 20dB Occupied Bandwidth of High Channel

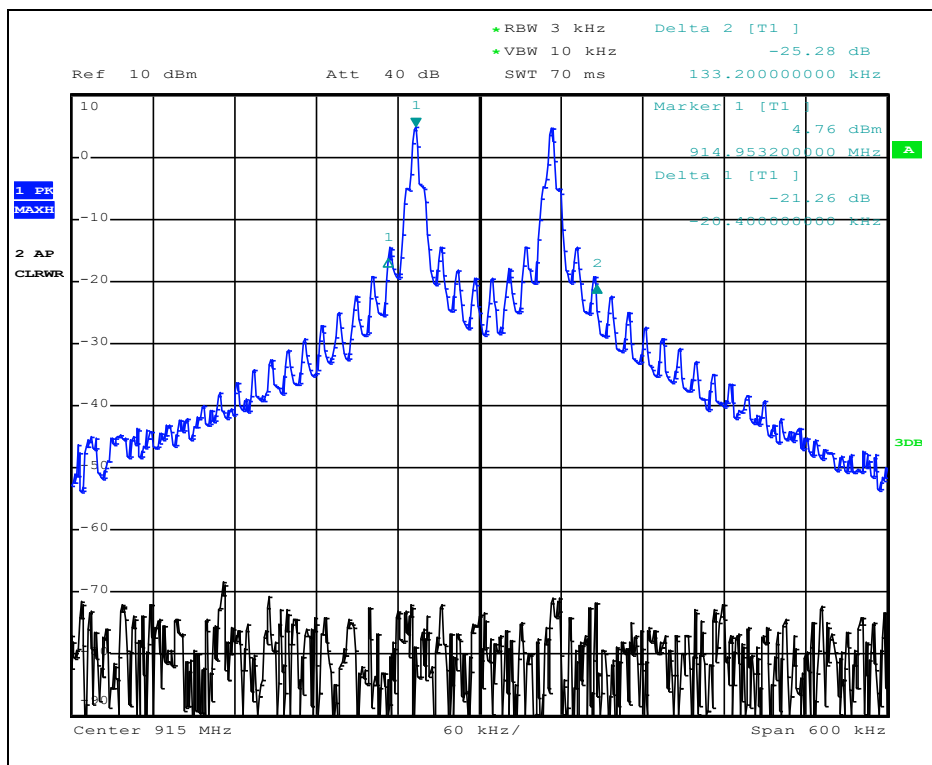
Table 7: Data: 20dB Occupied Bandwidth

Channel	Frequency (MHz)	20dB Bandwidth (kHz)
Low	902.5	145
Middle	914.5	154
High	927.7	138

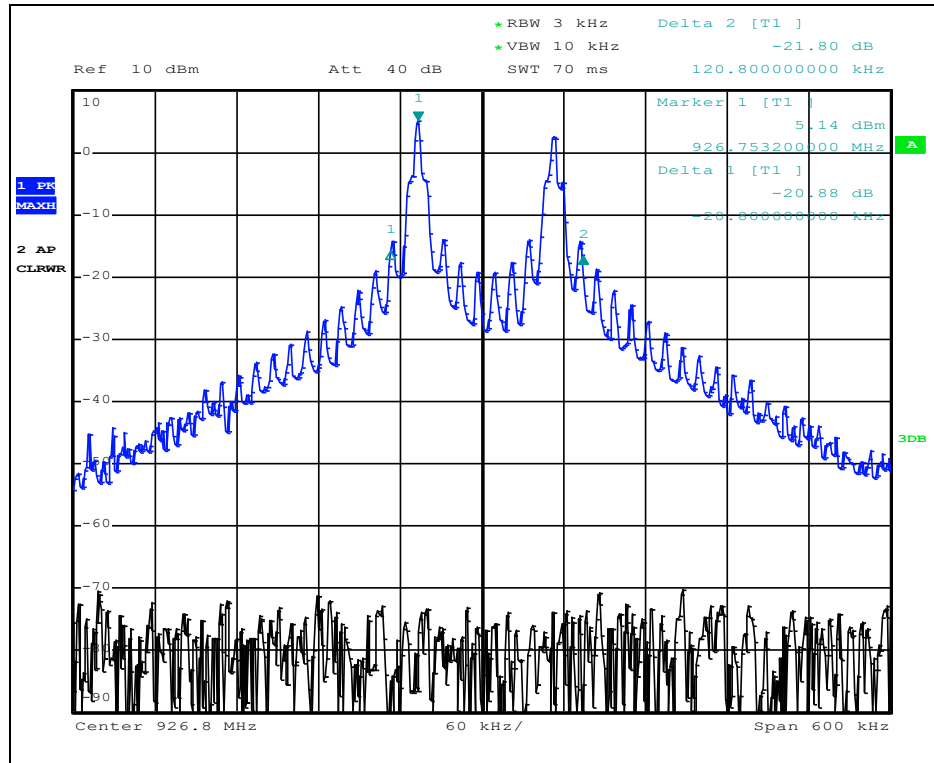
c) Third Party Data Rates



Plot 22: 20dB Occupied Bandwidth of Low Channel



Plot 23: 20dB Occupied Bandwidth of Mid Channel



Plot 24: 20dB Occupied Bandwidth of High Channel

Table 8: Data: 20dB Occupied Bandwidth

Channel	Frequency (MHz)	20dB Bandwidth (kHz)
Low	902.5	141
Middle	914.5	153
High	927	140

3.7 99% Occupied Bandwidth

Date Performed: July 24, 2021

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-Gen Issue 5

Test Method: ANSI C63.10:2013

Test Setup:

RSS-Gen Issue 4: Section 6.6

A peak, or peak hold, may be used in place of the sampling detector as this may produce a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold may be necessary to determine the occupied bandwidth if the device is not transmitting continuously.

The trace data points are recovered and are directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded.

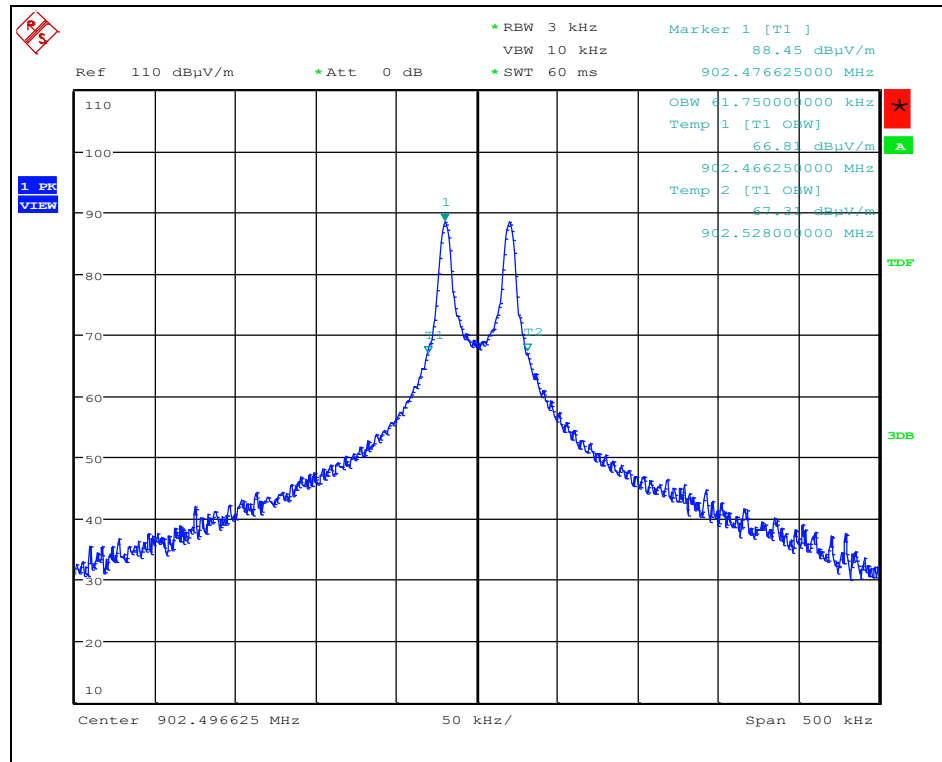
Measurement Method: As called in ANSI C63.10-2013.

Modifications: No modification was required to comply for this test.

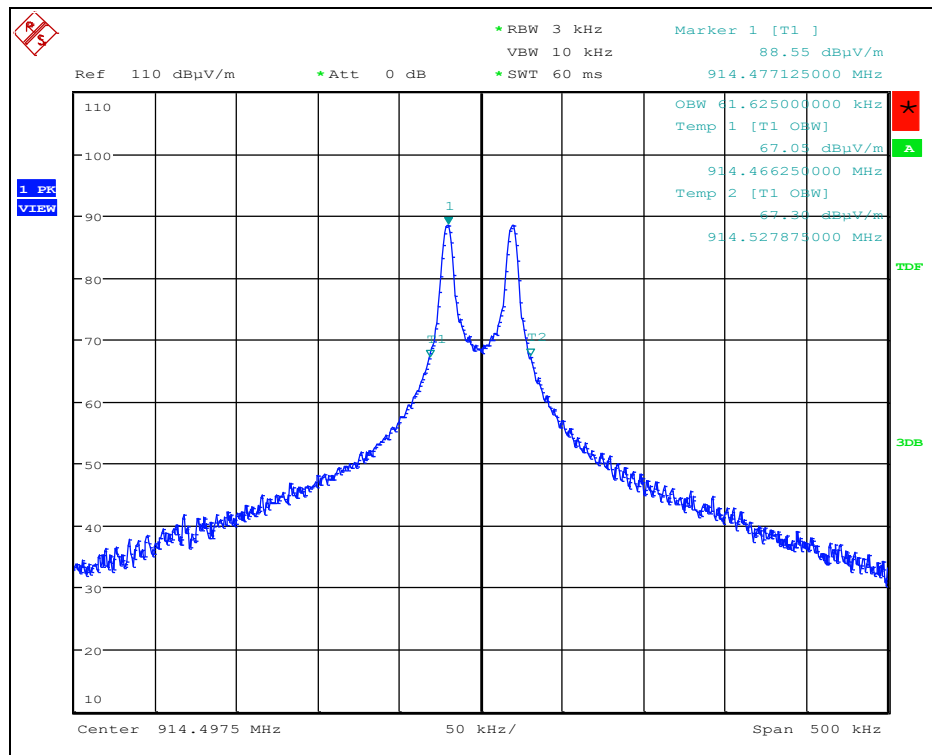
Final Result: The EUT **complies** with the applicable standard.

Measurement Data and Plot:

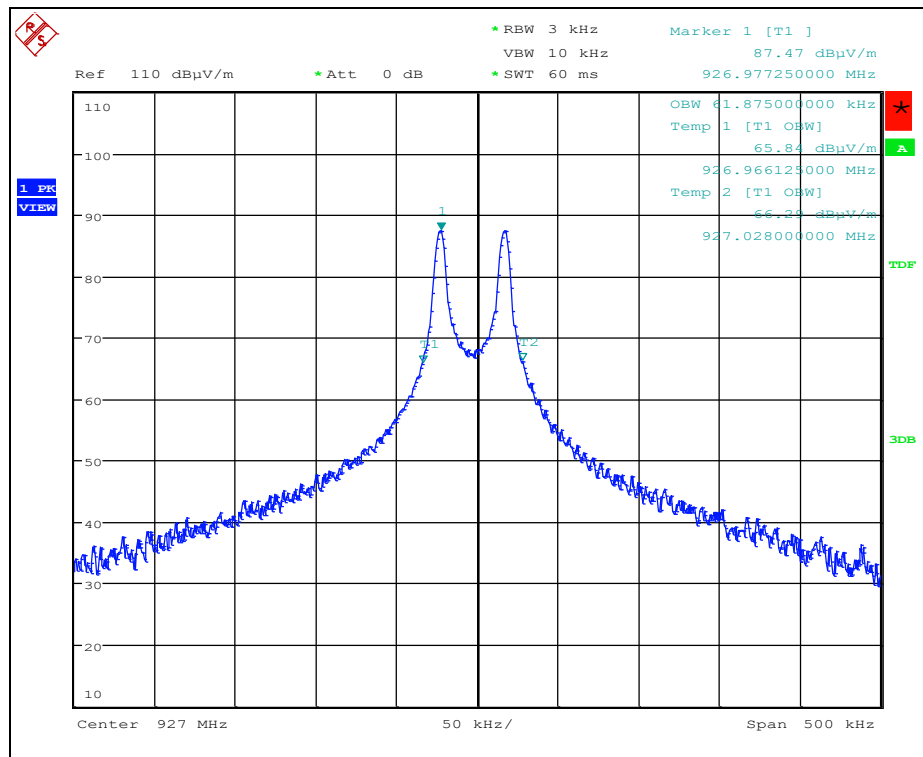
d) Third party Data Rates



Plot 25: 99% Occupied Bandwidth of Low Channel



Plot 26: 99% Occupied Bandwidth of Mid Channel

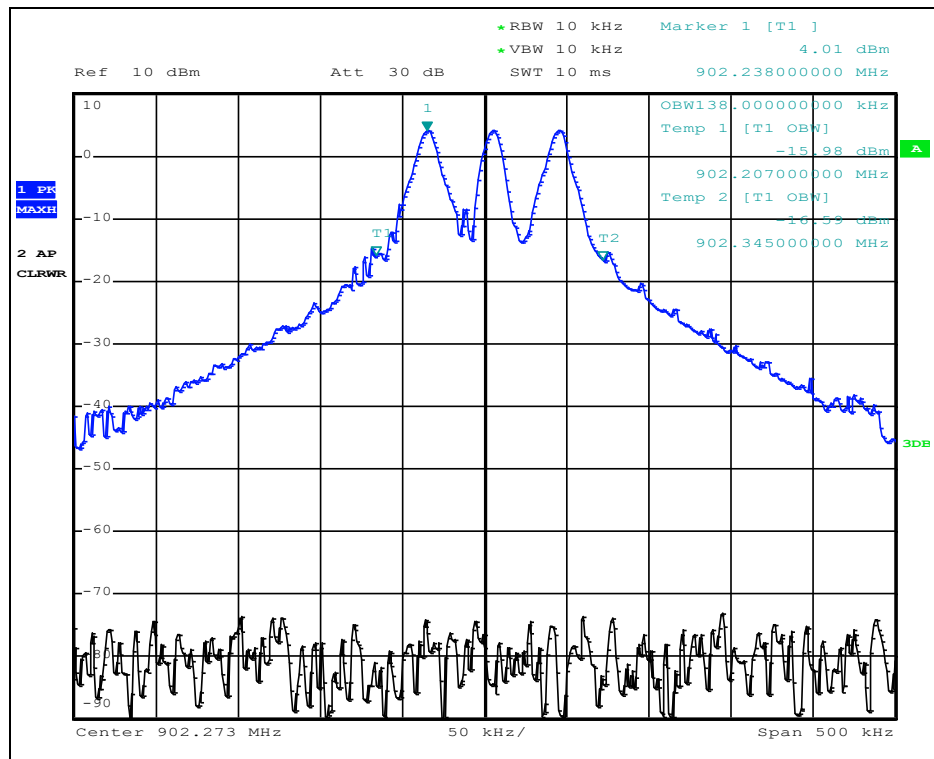


Plot 27: 99% Occupied Bandwidth of High Channel

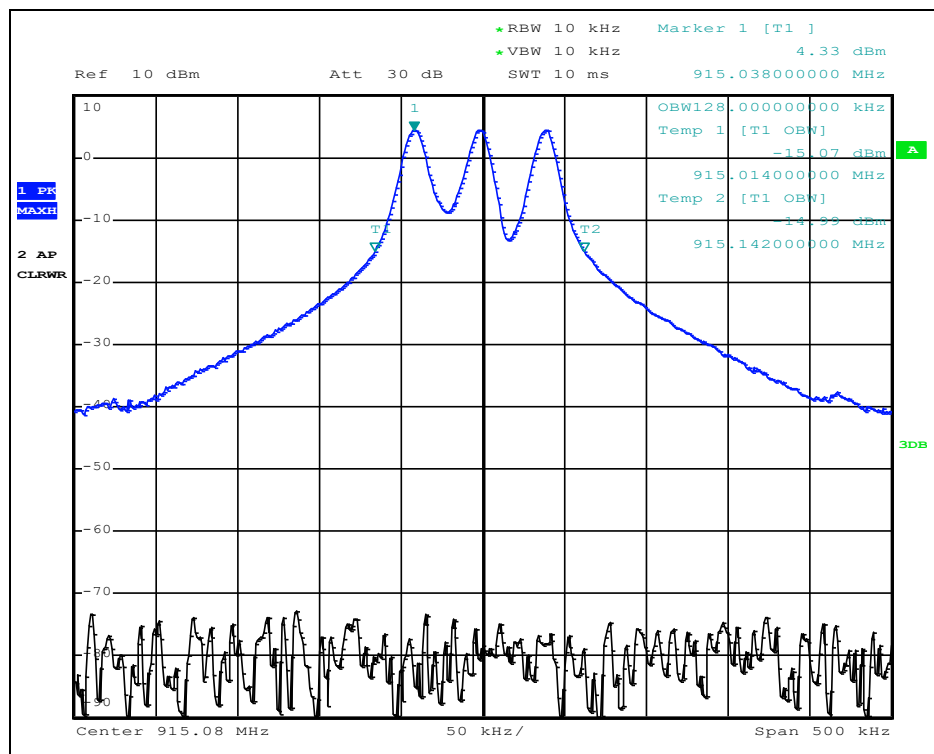
Table 9: Data: 99% Occupied Bandwidth

Channel	Frequency (MHz)	99% Bandwidth (kHz)
Low	902.5	61.8
Middle	914.5	61.6
High	927.0	61.9

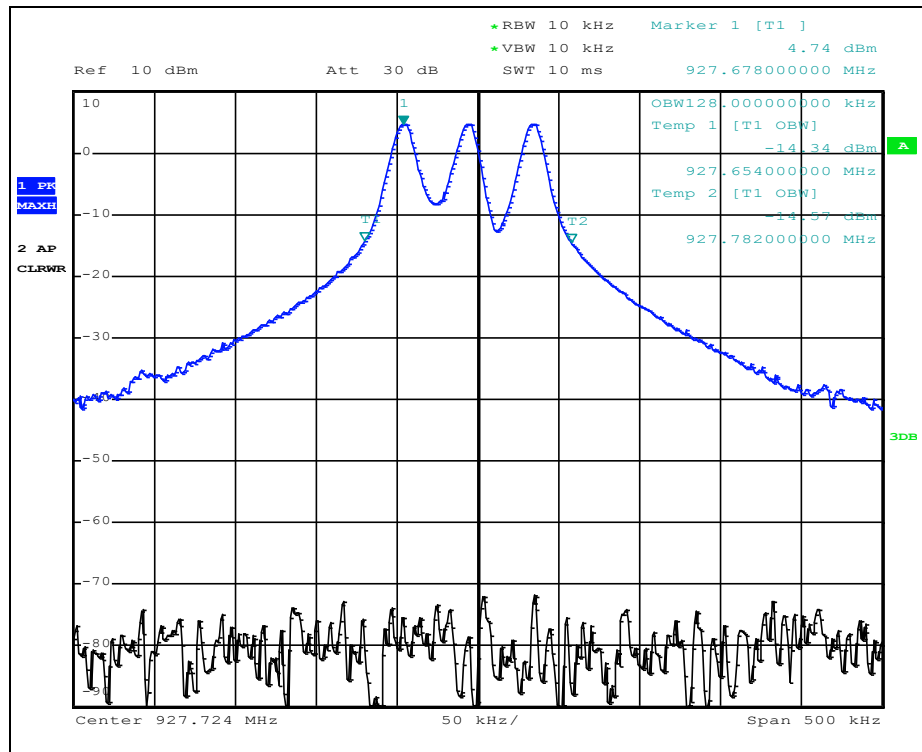
a) Low Data Rates



Plot 28: 99% Occupied Bandwidth of Low Channel



Plot 29: 99% Occupied Bandwidth of Mid Channel

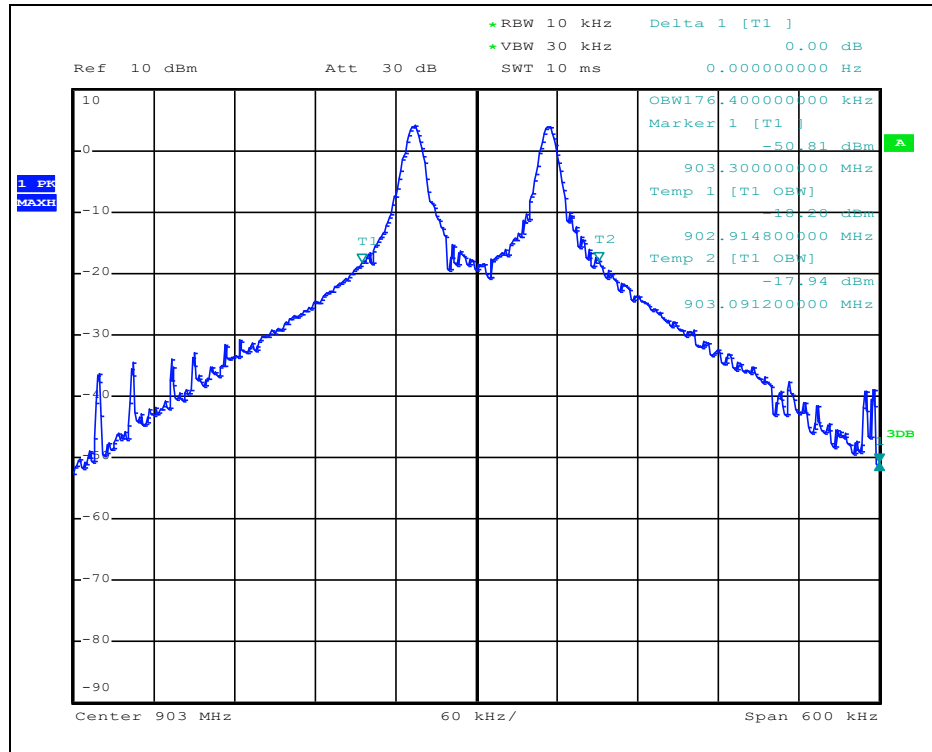


Plot 30: 99% Occupied Bandwidth of High Channel

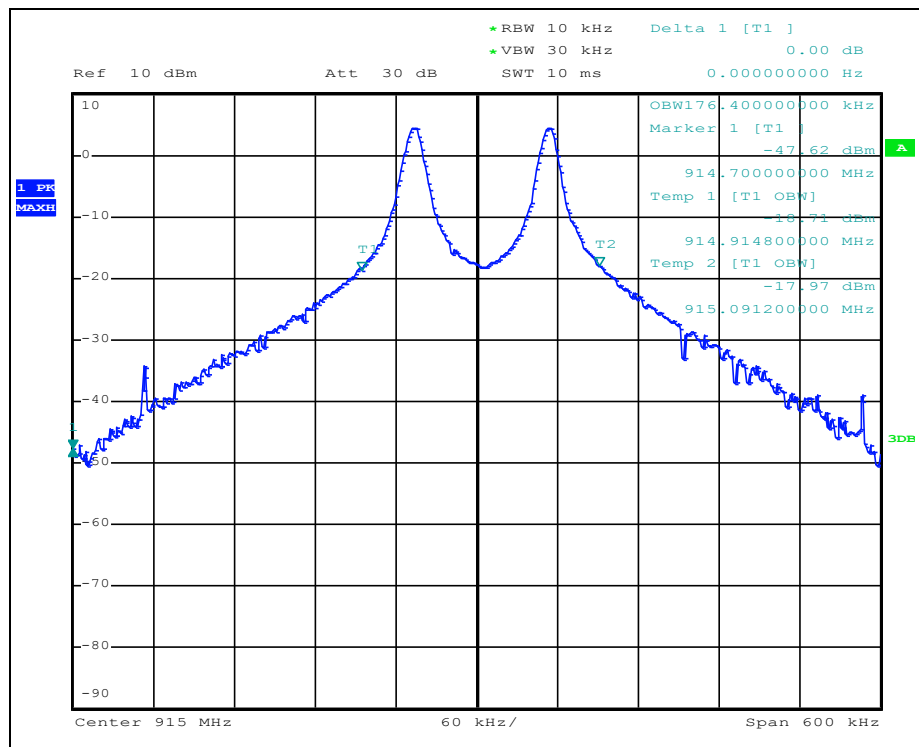
Table 10: Data: 99% Occupied Bandwidth

Channel	Frequency (MHz)	99% Bandwidth (kHz)
Low	902.5	138
Middle	914.5	128
High	927.0	128

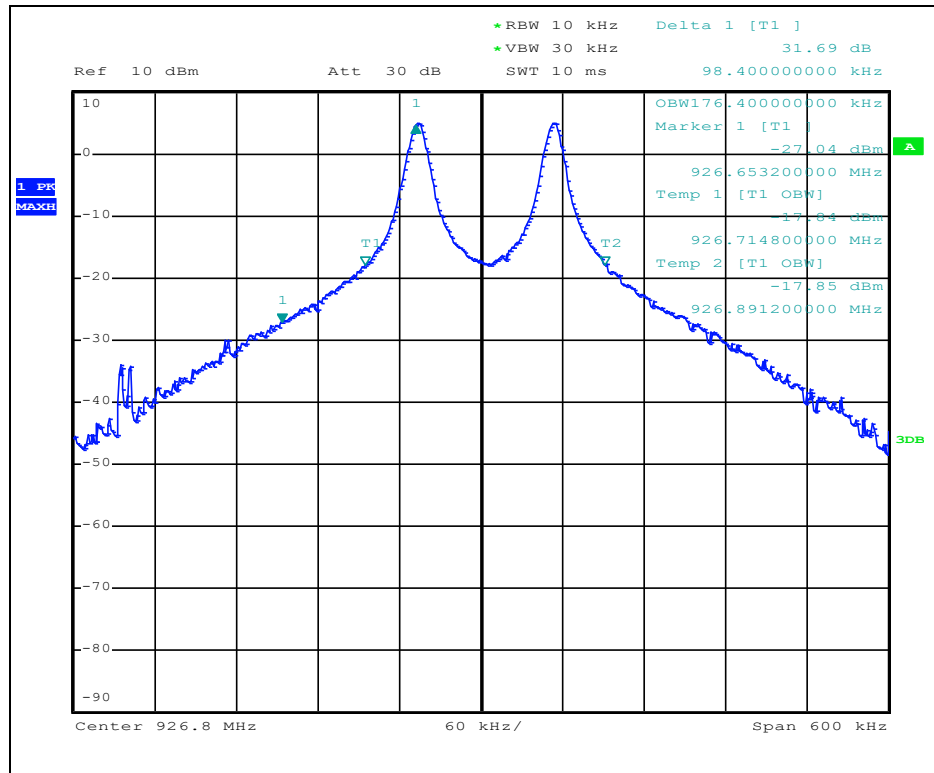
e) High Data Rates



Plot 31: 99% Occupied Bandwidth of Low Channel



Plot 32: 99% Occupied Bandwidth of Mid Channel



Plot 33: 99% Occupied Bandwidth of High Channel

Table 11: Data: 99% Occupied Bandwidth

Channel	Frequency (MHz)	99% Bandwidth (kHz)
Low	902.5	176
Middle	914.5	176
High	927.0	176

3.8 Band Edge

Date Performed: July 28, 2021

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-Gen Issue 5

Test Method: ANSI C63.10:2013

Test Requirement:

As per §15.249(d):

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 § 15.209, whichever is the lesser attenuation.

As per RSS-210 F.1(e):

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits specified in RSS-Gen, whichever is less stringent.

Measurement Method:

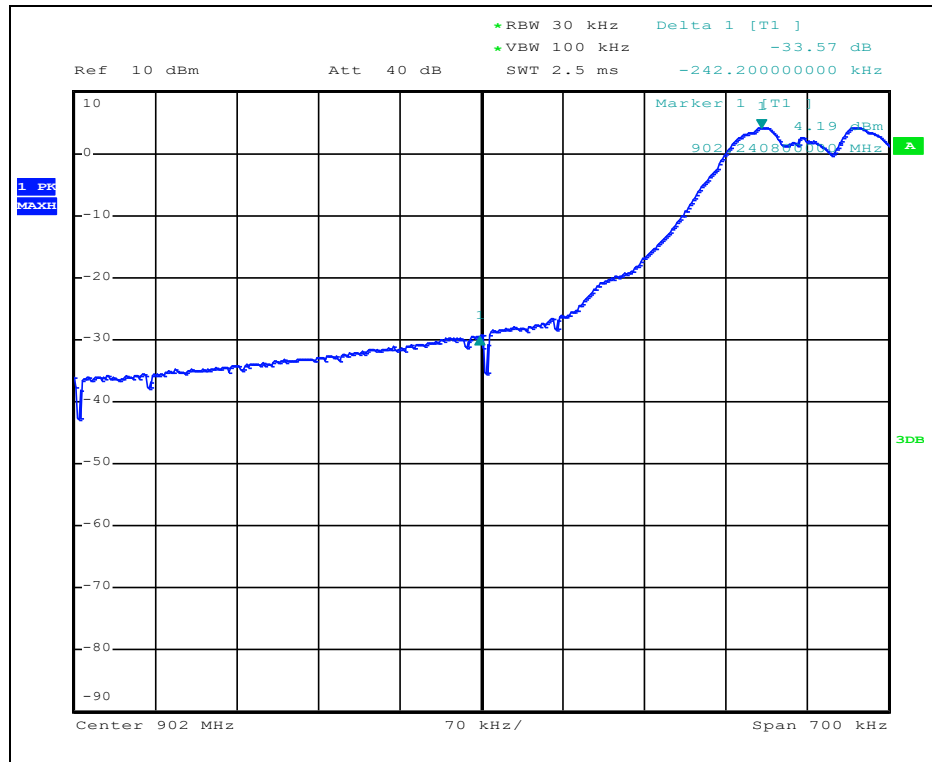
The measurement method used was Section 6.10.6.2 Marker-delta Method of ANSI C63.10-2013 standard.

Modifications: No modification was required to comply for this test.

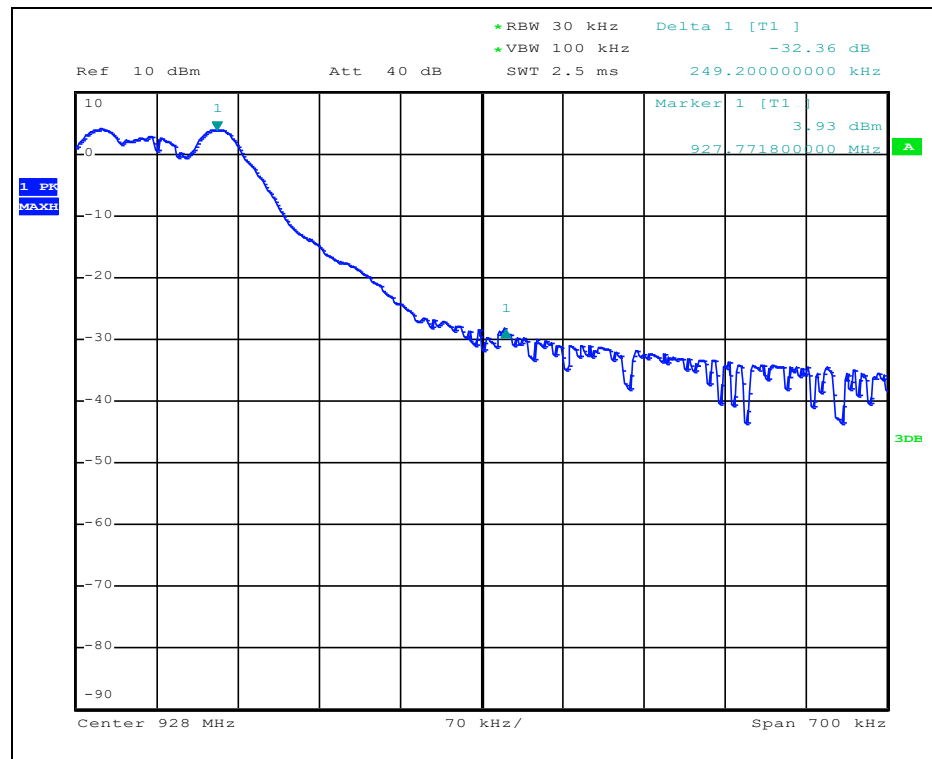
Final Result: The EUT **complies** with the applicable standard.

Measurement Data and Plot:

a) Third Party Data Rates

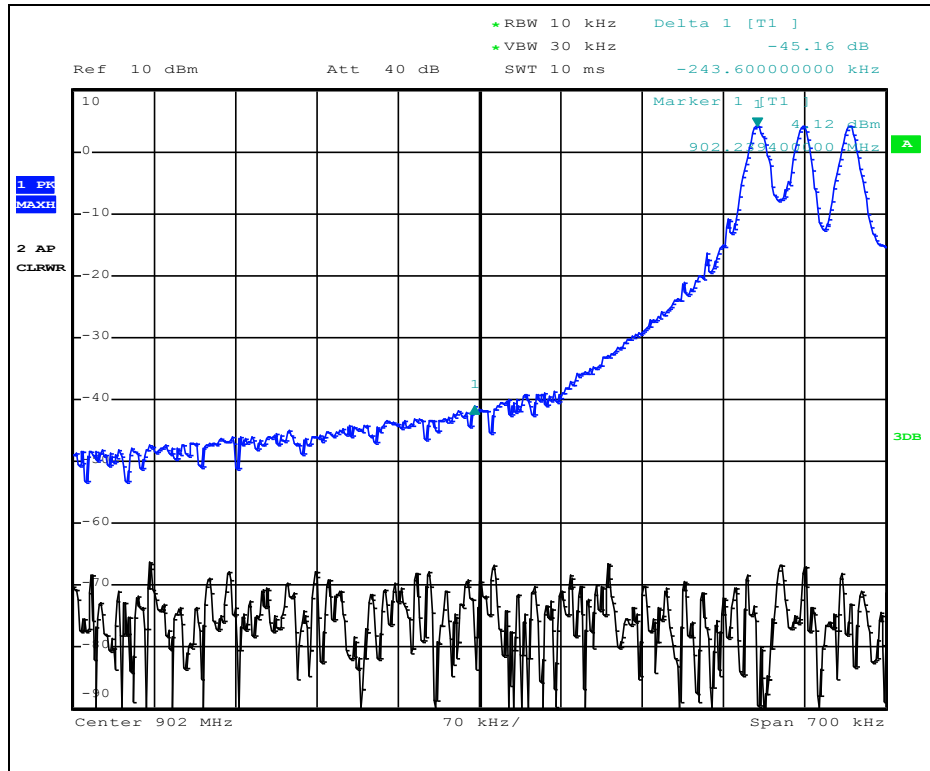


Plot 34: Band edge, low side

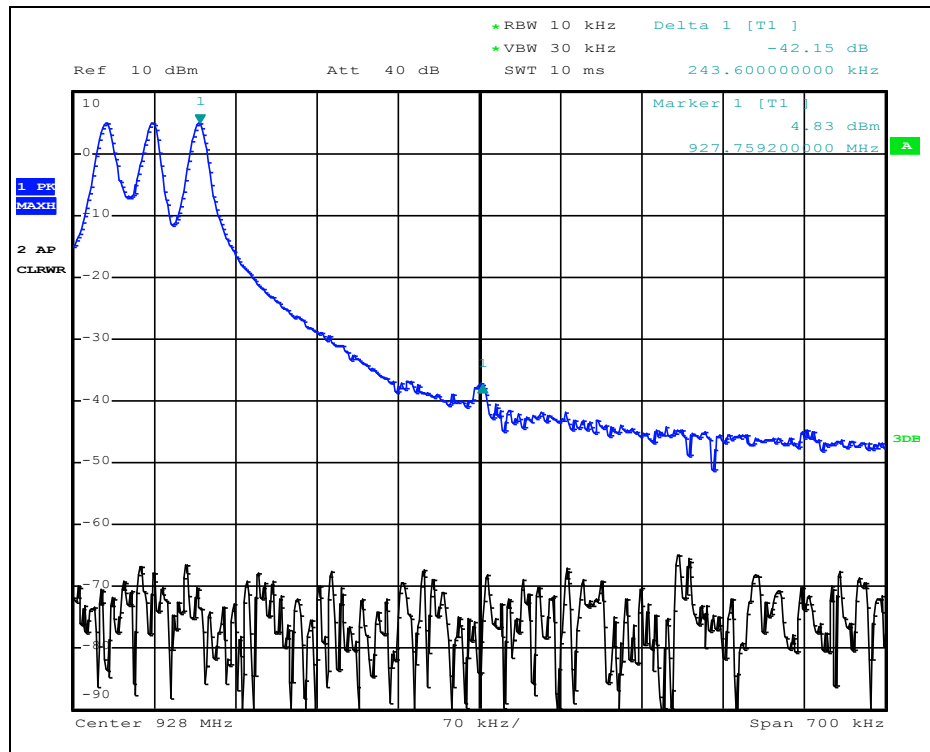


Plot 35: Band edge, high side

b) Low Data Rate Mode

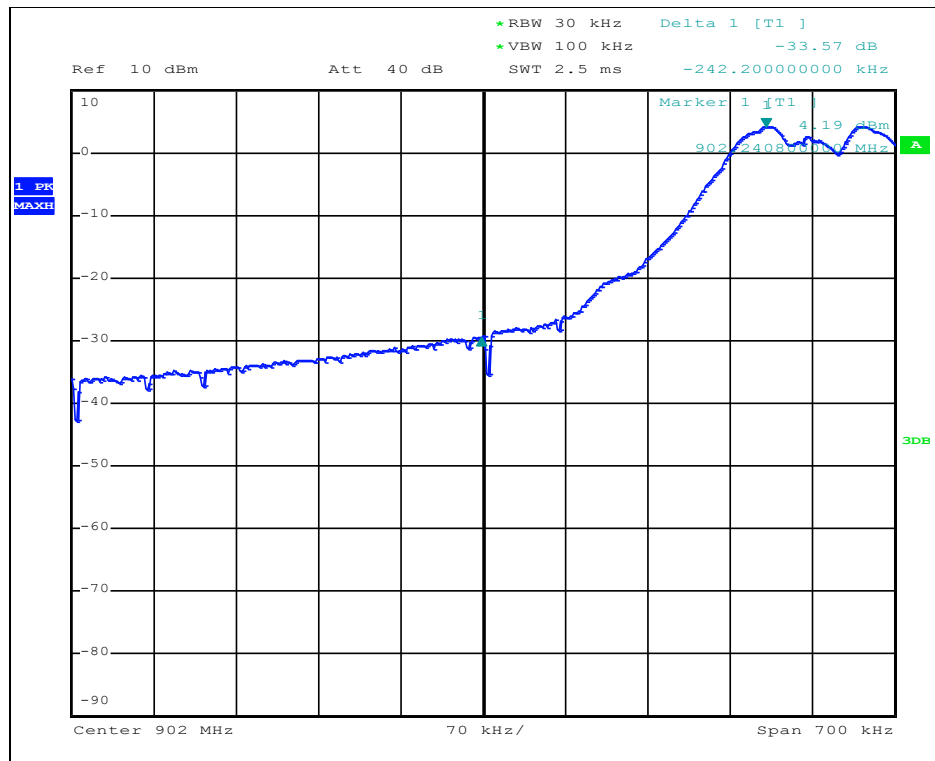


Plot 36: Band edge, low side

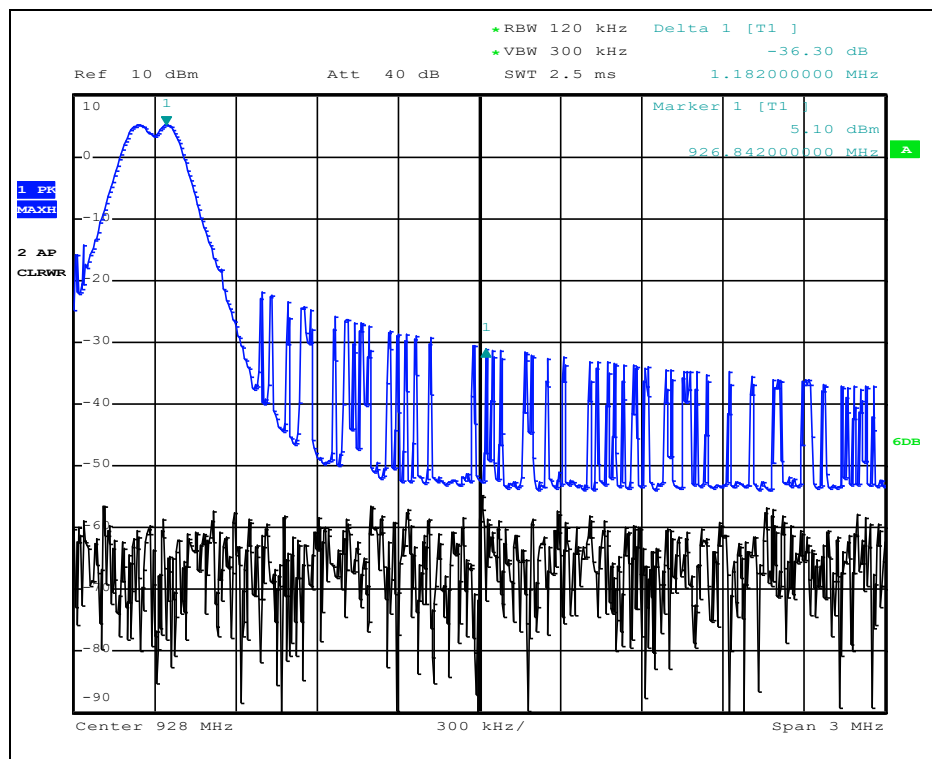


Plot 37: Band edge, high side

c) High data rate mode



Plot 38: Band edge, low side



Plot 39: Band edge, high side

3.9 Time of Occupancy & Dwell Time

Date Performed: July 30, 2021

Test Requirement: For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period.

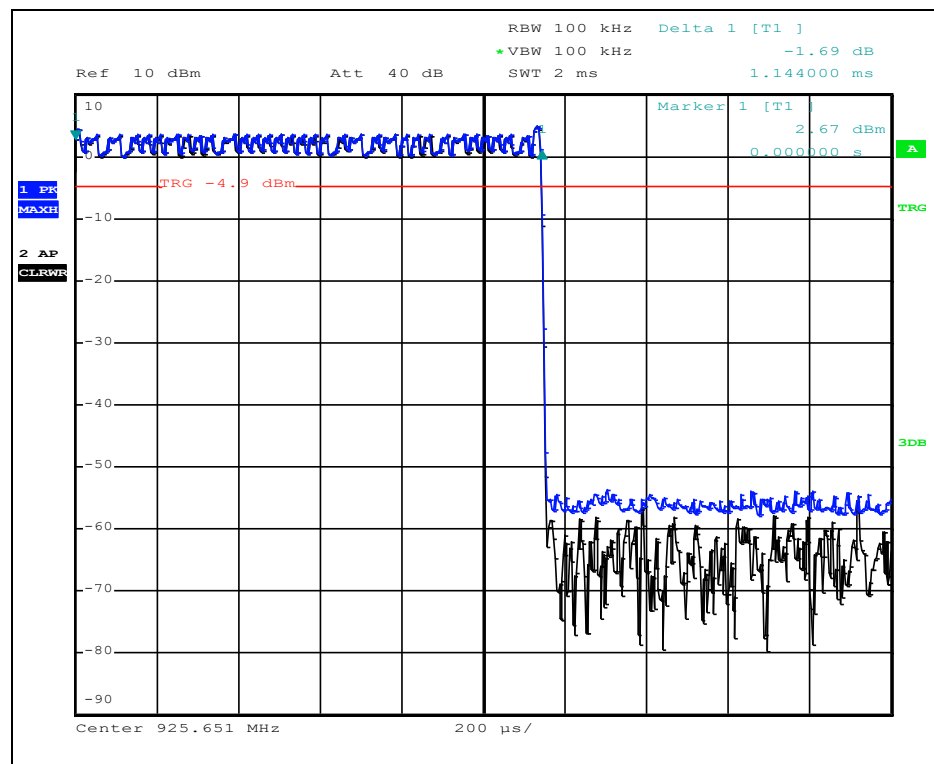
Test Set-up: Conducted measurement at antenna port using spectrum analyzer.
Span = 0 Hz, RBW = 100 kHz, VBW = 100 kHz

Modifications: None

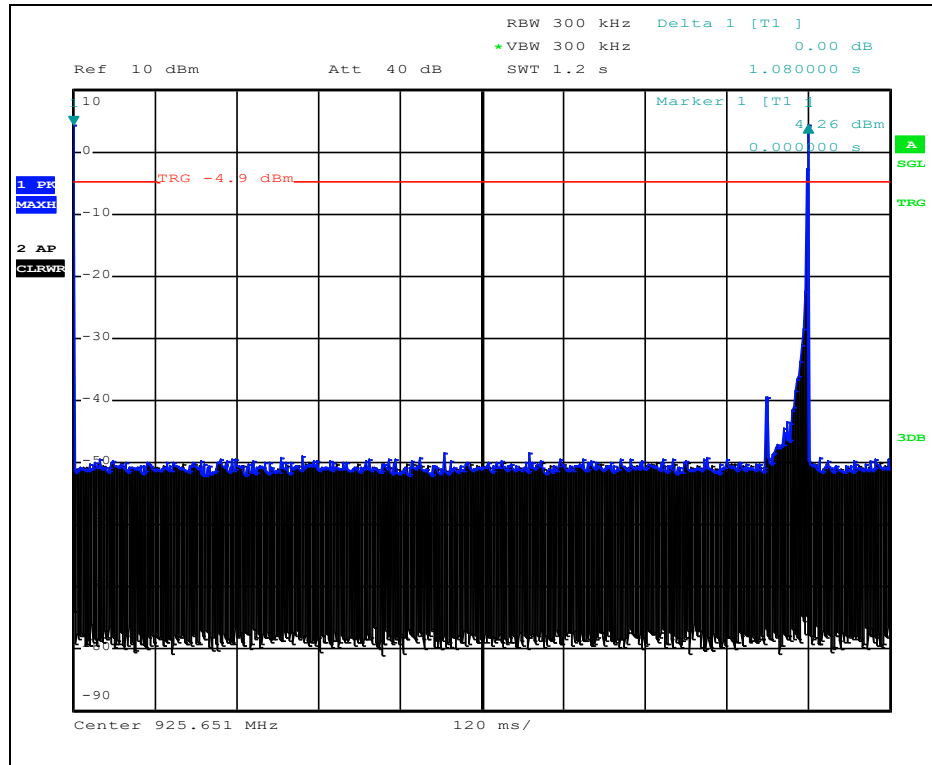
Result: EUT complies.

Measurement Data and Plot:

a) High data rate mode



Plot 40: Dwelling Time

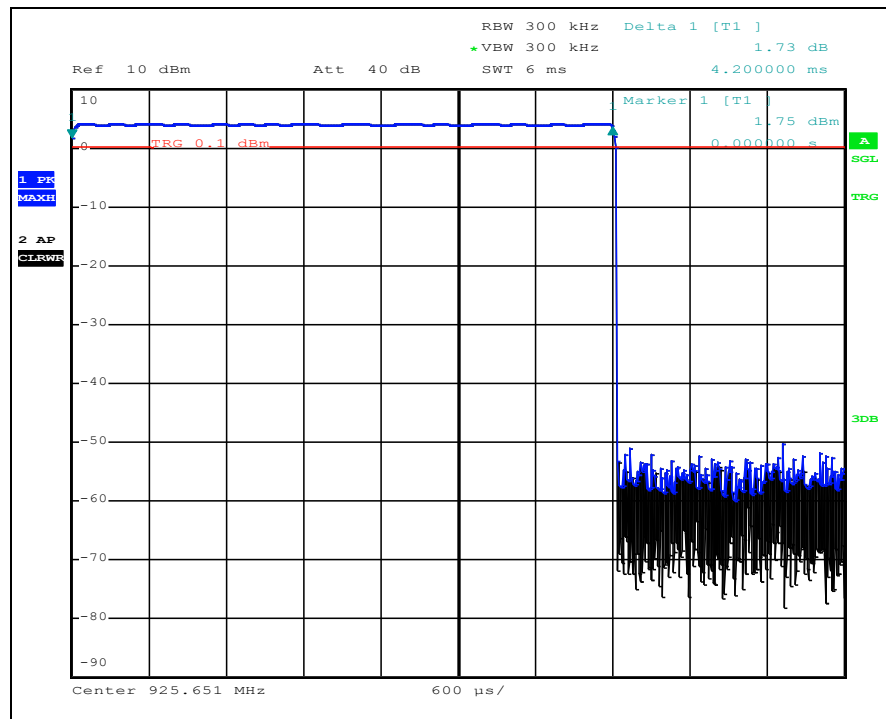


Plot 41: Number of Burst

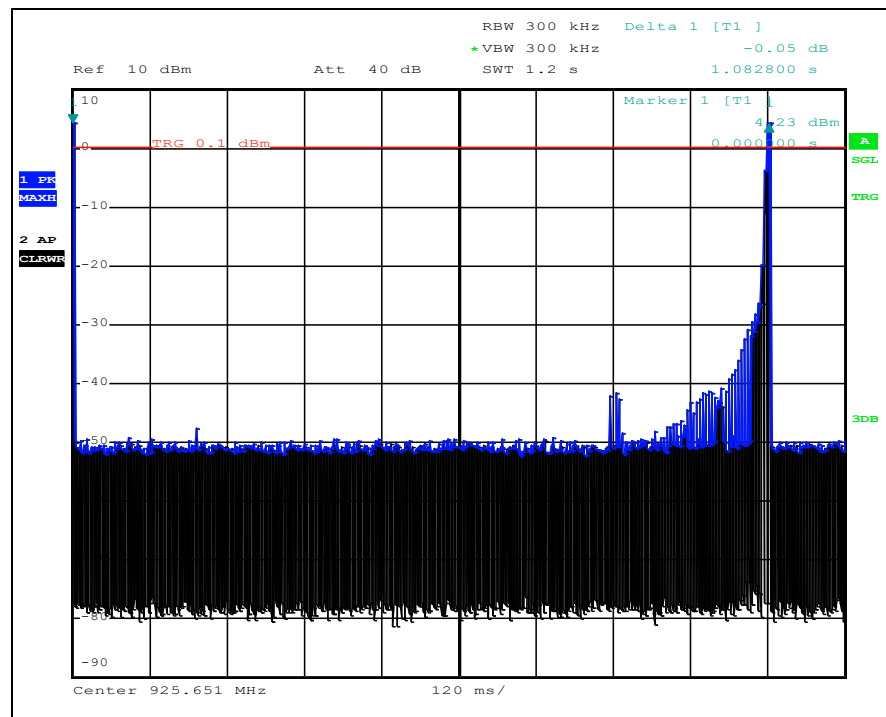
Table 12: Time of Occupancy & Dwell Time

Test Channel (MHz)	Number of Bursts from t_0 To $t_{1.2}$ (1.08 s)	Number of Bursts in 20 seconds	Dwelling Time (ms)	Time of Occupancy (ms)	Max Limit (ms)	Results
925	1	18.51	1.14	21.10	400	Complies

b) Low data rate mode



Plot 42: Dwelling Time

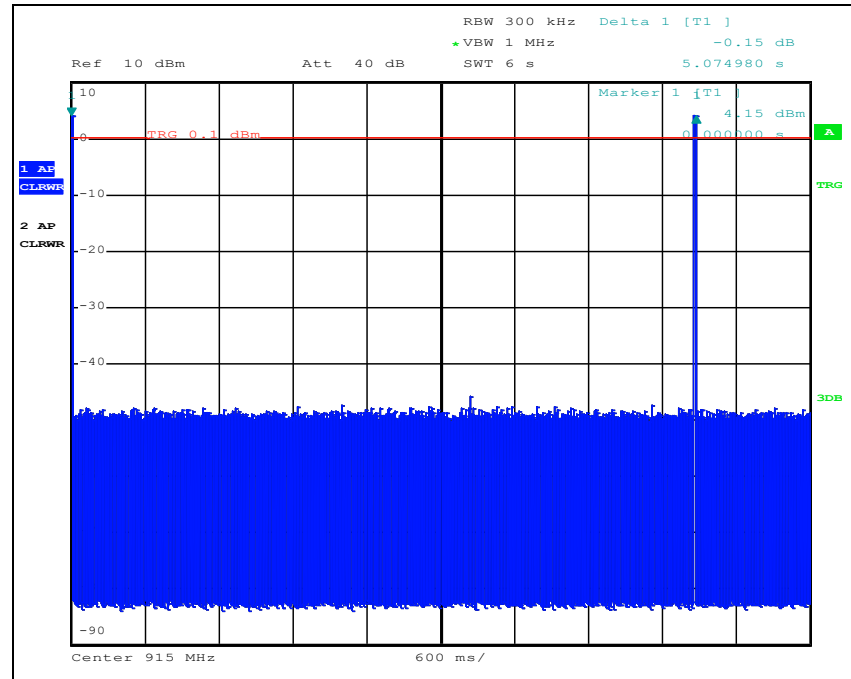


Plot 43: Number of Burst

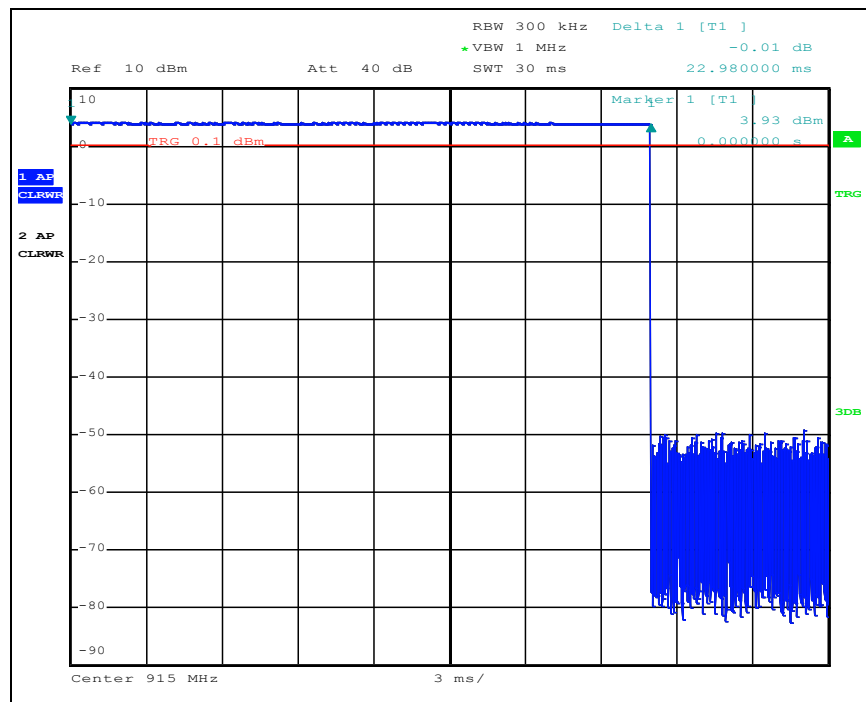
Table 13: Time of Occupancy & Dwell Time

Test Channel (MHz)	Number of Bursts from t_0 to $t_{1.08}$ (1.08 s)	Number of Bursts in 20 seconds	Dwelling Time (ms)	Time of Occupancy (ms)	Max Limit (ms)	Results
925	1	18.51	4.2	77.78	400	Complies

c) Third Party rate mode



Plot 44: Number of Burst



Plot 45: Dwelling Time

Table 14: Time of Occupancy & Dwell Time

Test Channel (MHz)	Number of Bursts from t_0 To $t_{5.4}$ (5.07 s)	Number of Bursts in 20 seconds	Dwelling Time (ms)	Time of Occupancy (ms)	Max Limit (ms)	Results
925	1	3.9	23	89.7	400	Complies

3.10 Channel separation

Date Performed: July 28, 2021

Test Standard: FCC Title 47 CFR Part 15: Subpart C - §15.247 (a)(1)
RSS-247-Issue 2

Test Method: ANSI C63.10:2013

Modifications: No modification was required to comply for this test

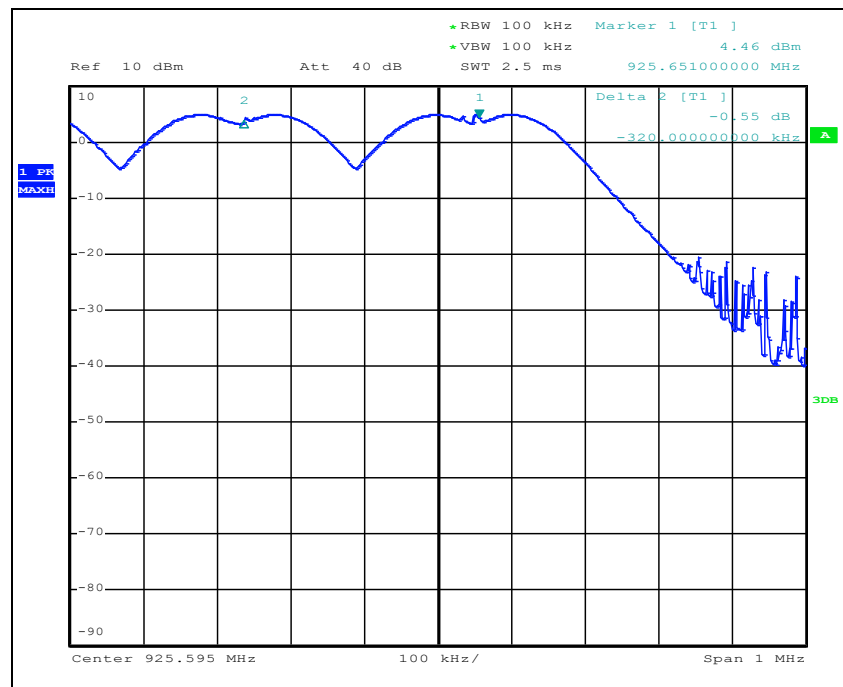
Final Result: The EUT **Comply** with the applicable standard.

Test Requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

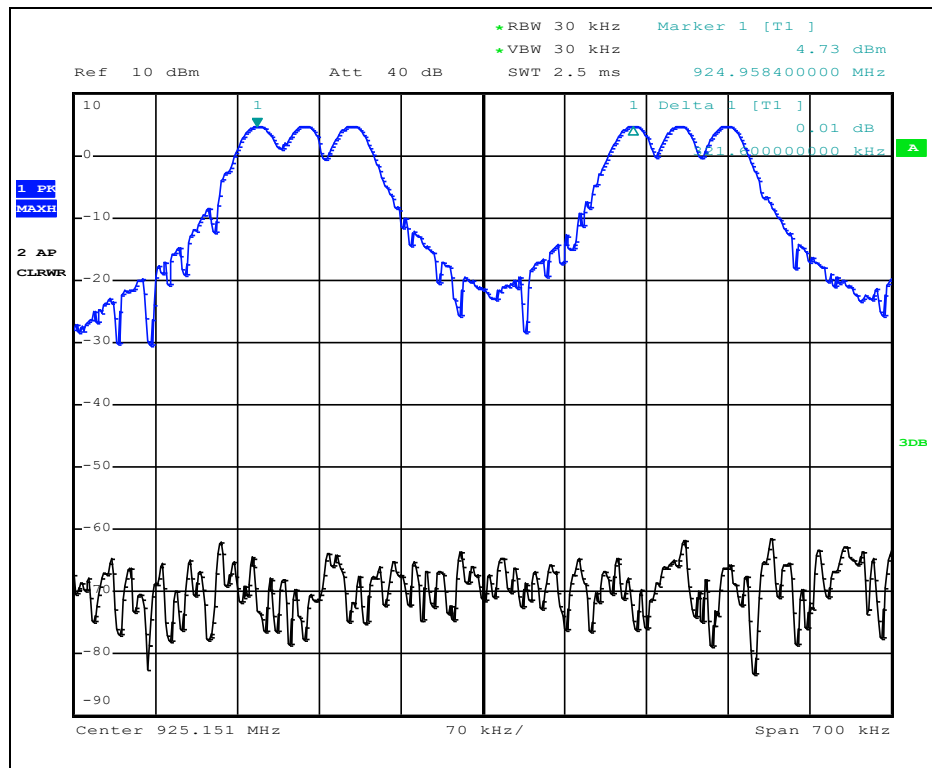
Data Rates (kb/s)	Channel Separation (kHz)	20dB Bandwidth (kHz)	Results
Third Party Data Rates	200	153	Comply
Low Data Rates	321	145	Comply
High Data Rates	320	295	Comply

a) Third Party Bit rate mode



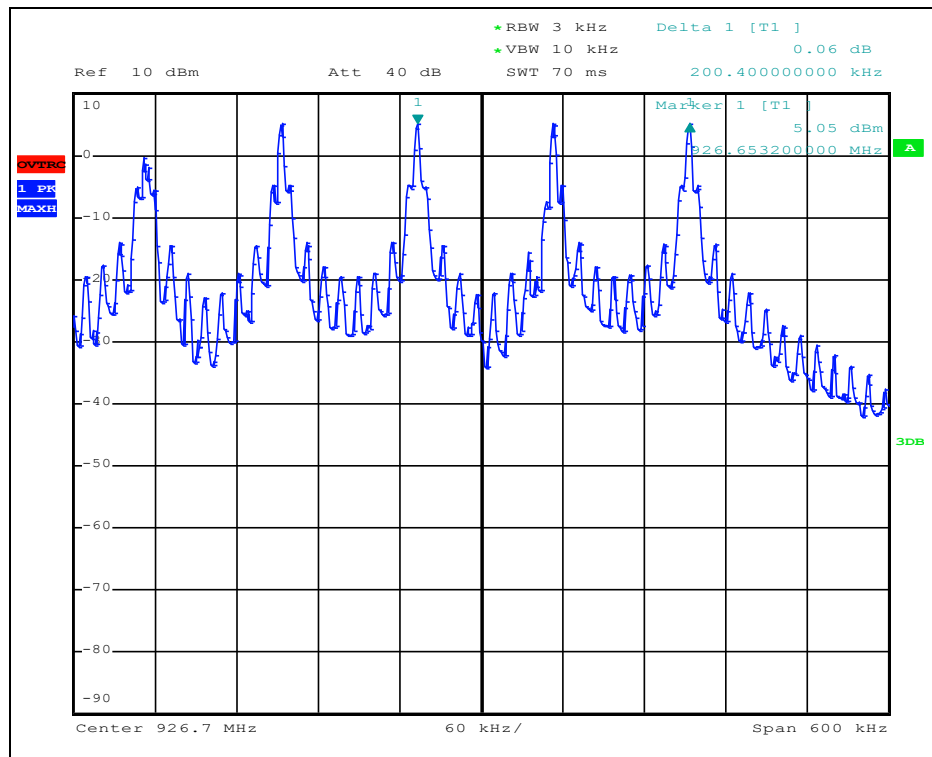
Plot 46: Channel Separation

b) Low data rate mode



Plot 47: Channel Separation

c) High data rate mode



Plot 48: Channel Separation

3.11 Number of Hopping Channels

Date Performed: June 23, 2021

Test Standard: FCC Title 47 CFR Part 15: Subpart C - §15.247
RSS-247-Issue 2

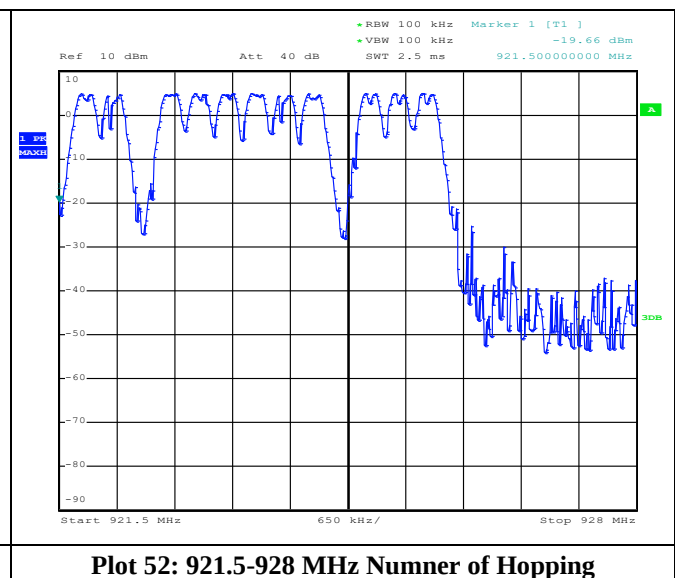
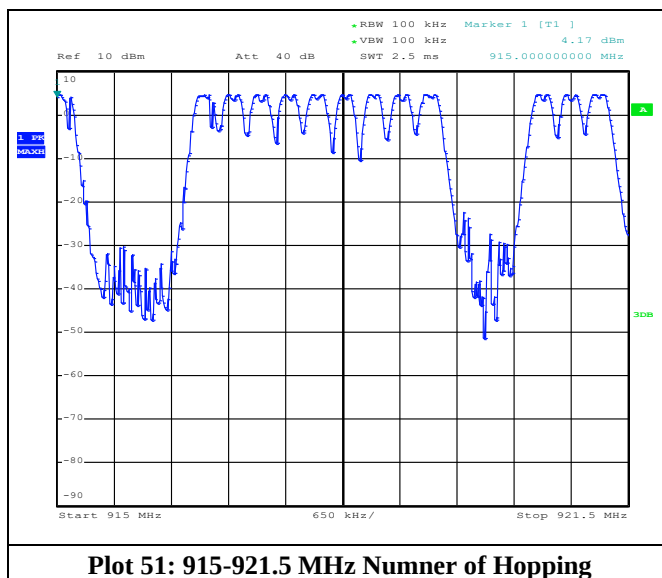
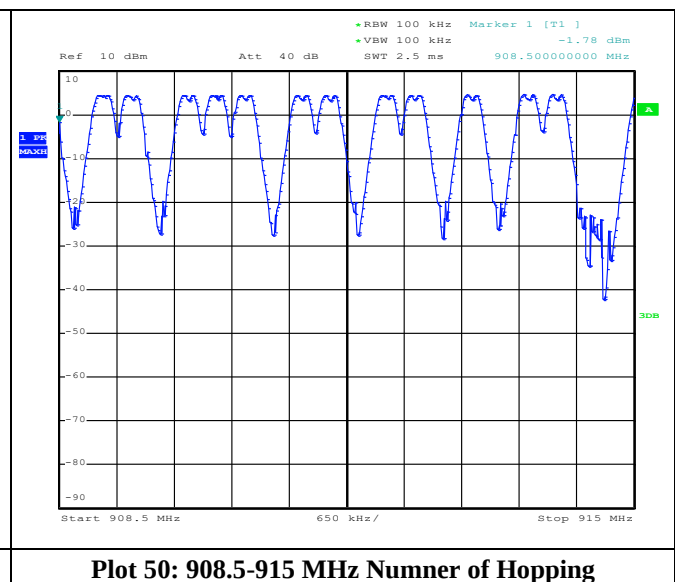
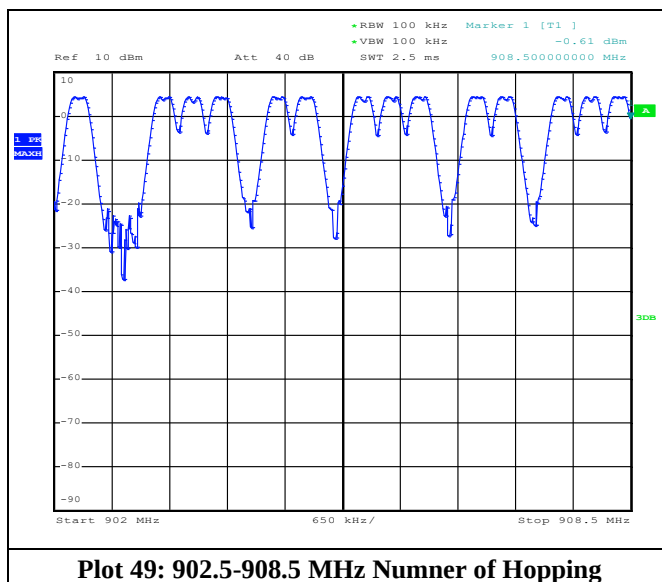
Test Method: ANSI C63.10:2013

Modifications: No modification was required to comply for this test

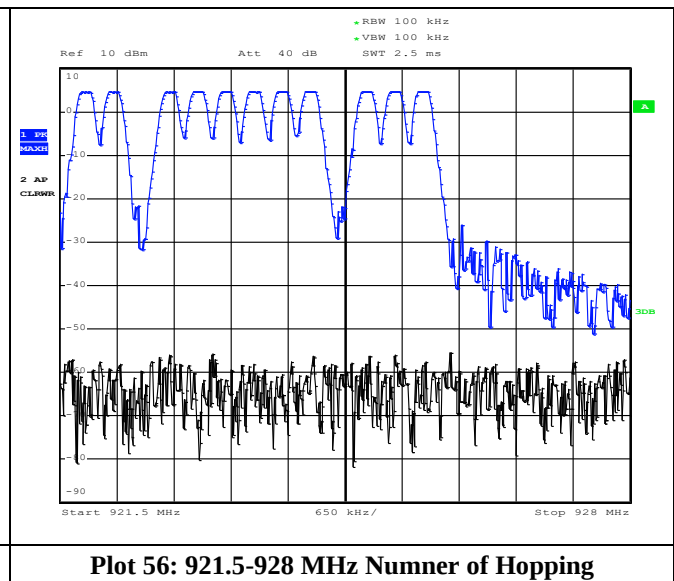
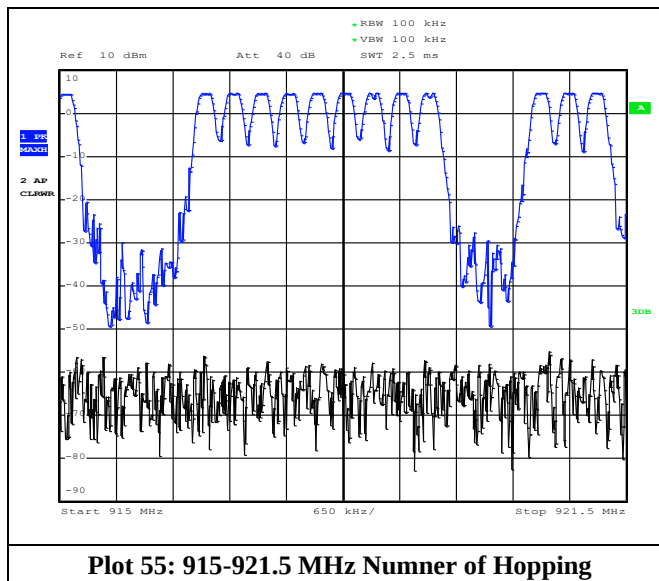
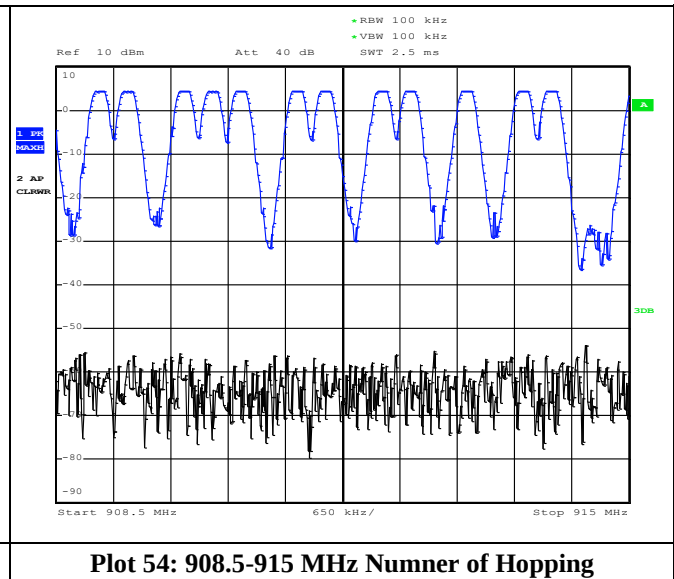
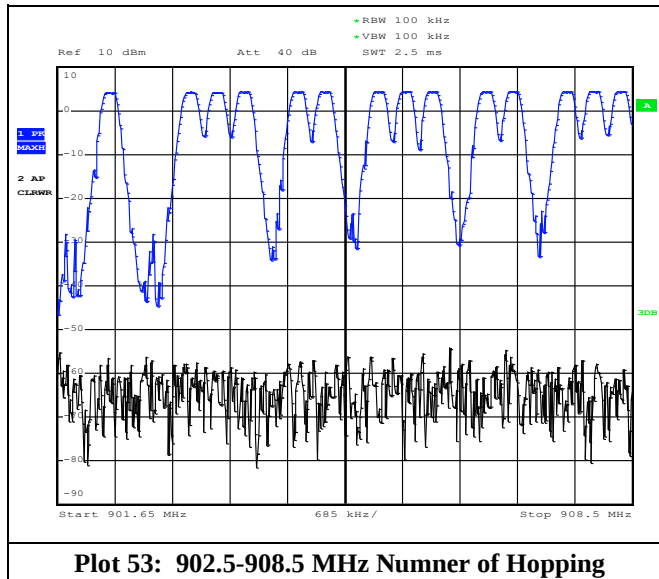
Final Result: This device will only be used by 'Cooper Electrical Canada' as an OEM device that will be professionally installed. The EUT **Comply** with the applicable standard.

Measurement Data and Plot:

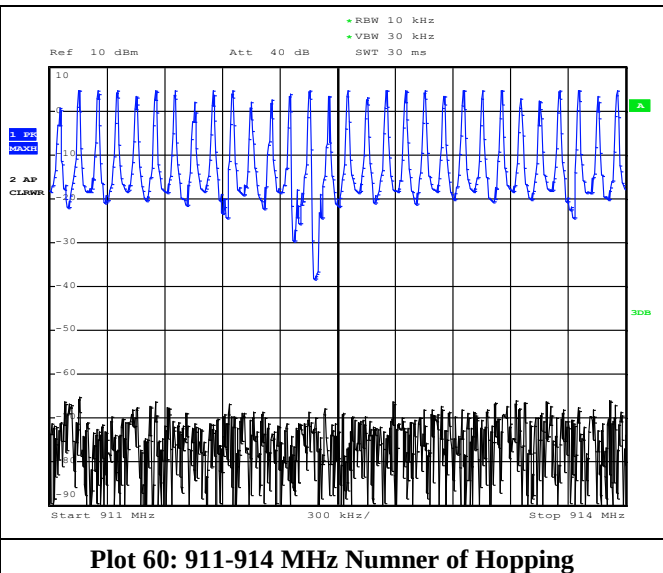
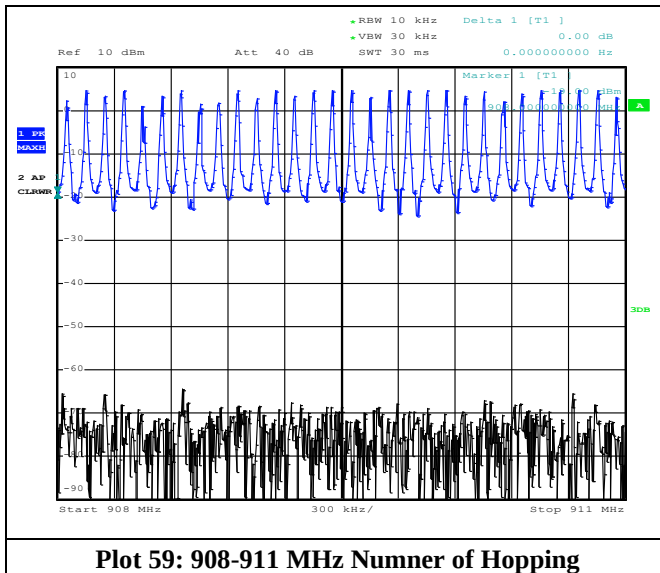
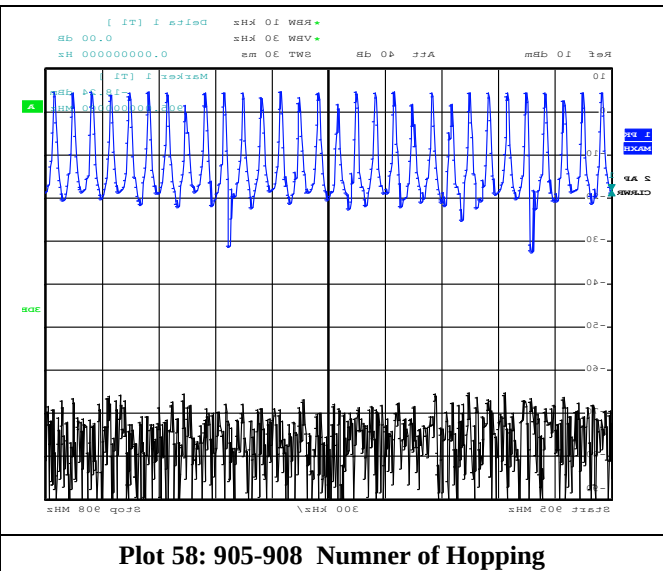
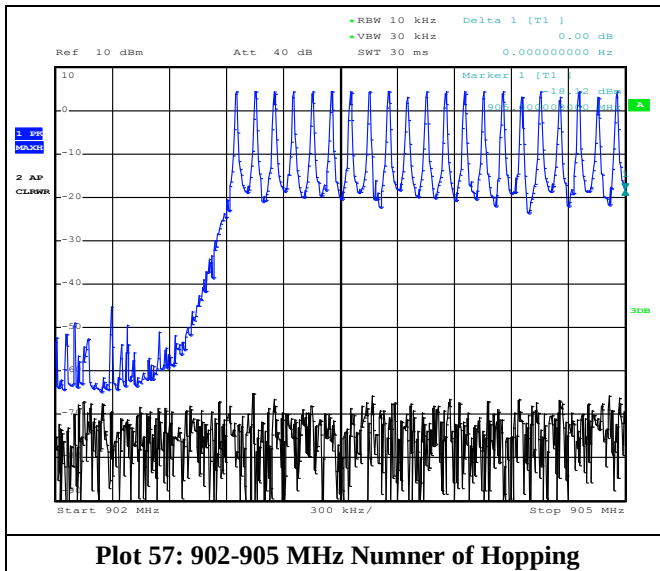
a) Third Party rate mode

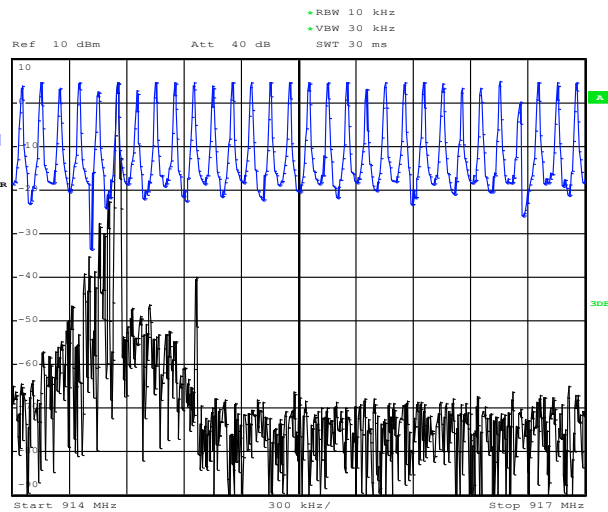


a) Low data rate mode

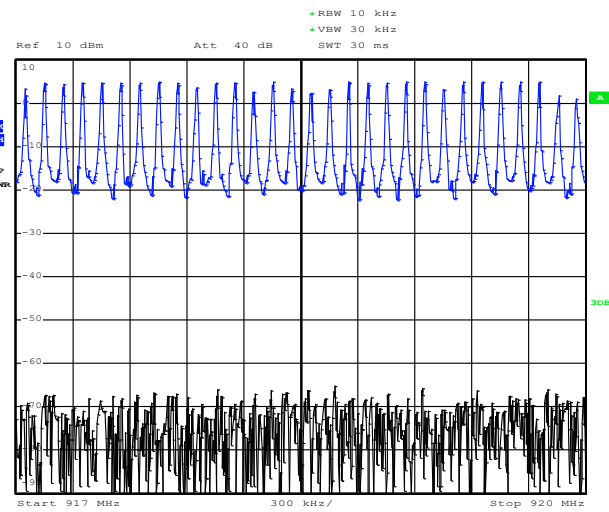


b) High data rate mode

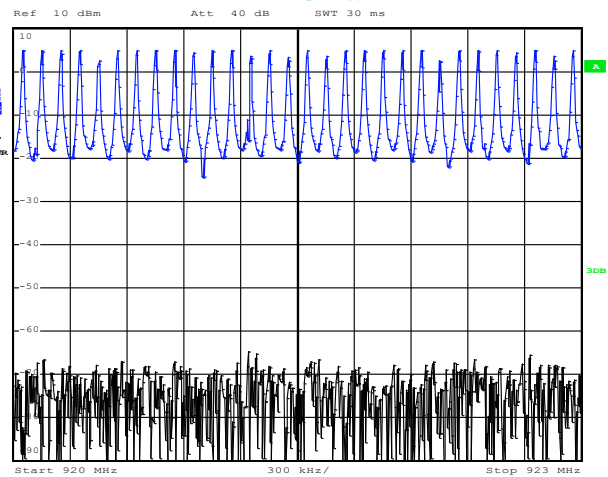




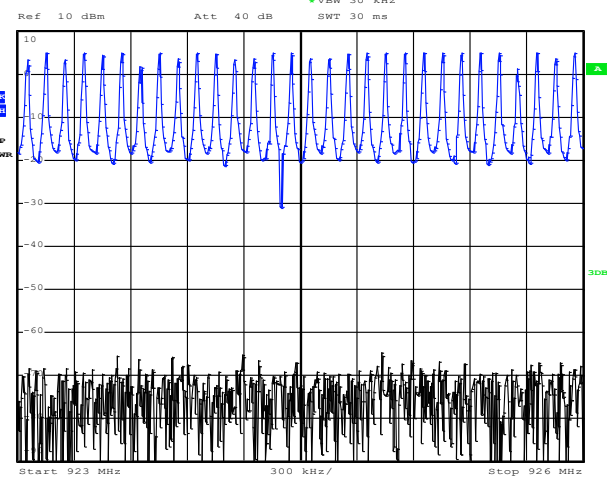
Plot 61: 914-917 MHz Numner of Hopping



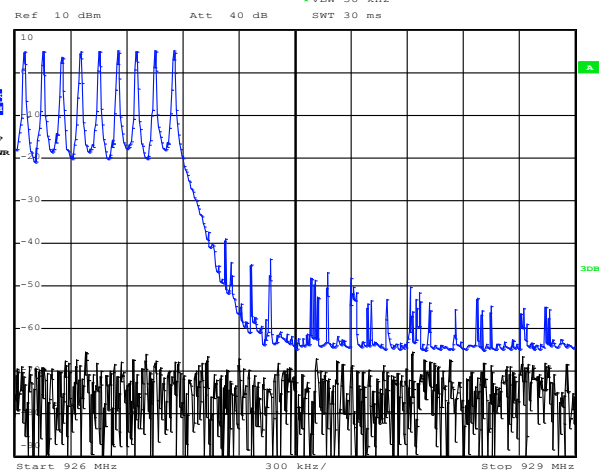
Plot 62: 917-920 MHz Numner of Hopping



Plot 63: 920-923 MHz Numner of Hopping



Plot 64: 923-926 MHz Numner of Hopping



Plot 65: 926-929 MHz Numner of Hopping

Table 15: Number of Hopping channels

Data Rate (kb/s)	Frequency Range (MHz)	Number of Hopping Frequencies
Third Party	902.5-908.5	14
	908.5-915	13
	915-921.5	13
	921.5-928	11
	Total	51
Low Data Rate	902-908.5	14
	908.5-915	12
	915-921.5	13
	921.5-928	11
	Total	50
High Data Rate	902-905	11
	905-908	15
	908-911	15
	911-914	15
	914-917	15
	917-920	15
	920-923	15
	923-926	15
	926-929	4
	Total	120

3.12 RF Exposure Evaluation

Date Performed: August 4, 2021

Test Standard: FCC CFR 47 Part 15.249
FCC CFR 47 Part 15.209
FCC CFR 47 Part 15.205
RSS-210 Issue 9
RSS-Gen Issue 5

Test Method: ANSI C63.10:2013

Transmitters contained in the EUT:

MPE Calculation:

The Power Density (S) is calculated using the given formula below:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power density (mW/cm²)

P = Power input to antenna (mW)

G = Power gain of the antenna

R = Distance to the center of radiation of the antenna (cm)

Note: A separate RF Exposure document will be sent to TCB by Tantalus

3.13 Unintentional Radiated Emissions

Date Performed:

August 2, 2021

Test Standard:

As per [Section 2.4](#) of this report

Required Limit:

As per [Section 2.5](#) of this report

Test Method:

As per [Section 2.4](#) of this report

Modifications:

No modification was required to **comply** for this test.

Result:

The EUT **comply** with the applicable standard.

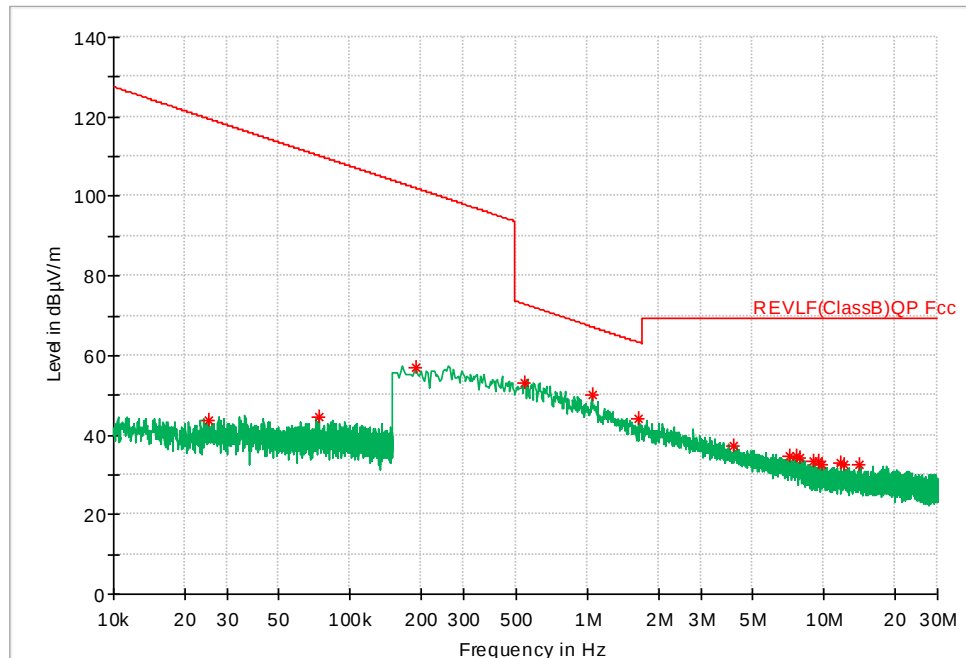
Host Test Mode/Configuration/Operation During Unintentional Radiated Emissions and AC Conducted Testing

Meter Forms		Radio Module	Host Test Configuration/Operation
1	2S	340 541 509	Operating continuously on Mains, Input; 120VAC/60Hz
2	9S	340 541 515	
3	12S	340 541 529	
4	16S	340 541 533	
5	45S	340 541 540	

Measurement Data and Plots:

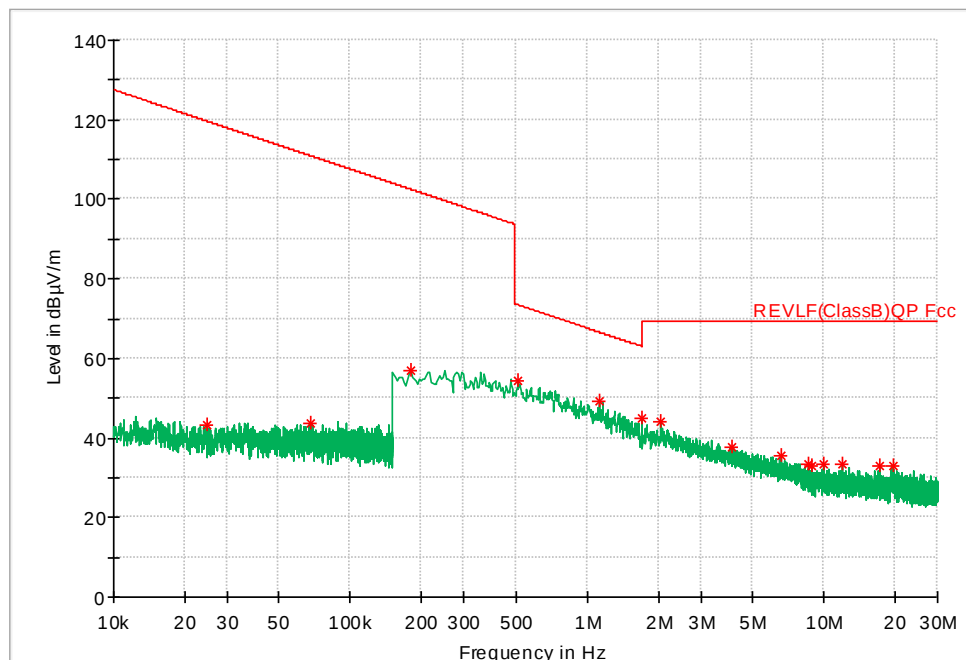
- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 10kHz to 30MHz
- Meter Form: 2S

Horizontal



Plot 66: Radiated Emissions at 3m SAC, 10 k to 30 MHz

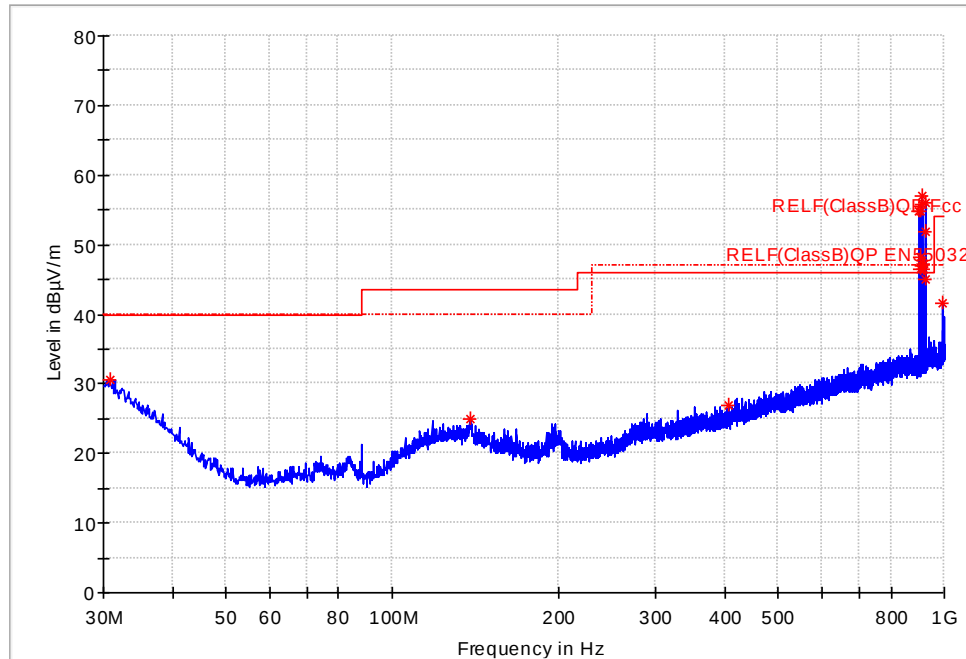
Vertical



Plot 67: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Vert

Note: No emissions of significance were observed

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 30MHz to 1GHz
- Meter Form: 2S



Plot 68: Radiated Emissions at 3m SAC, 30MHz to 1GHz

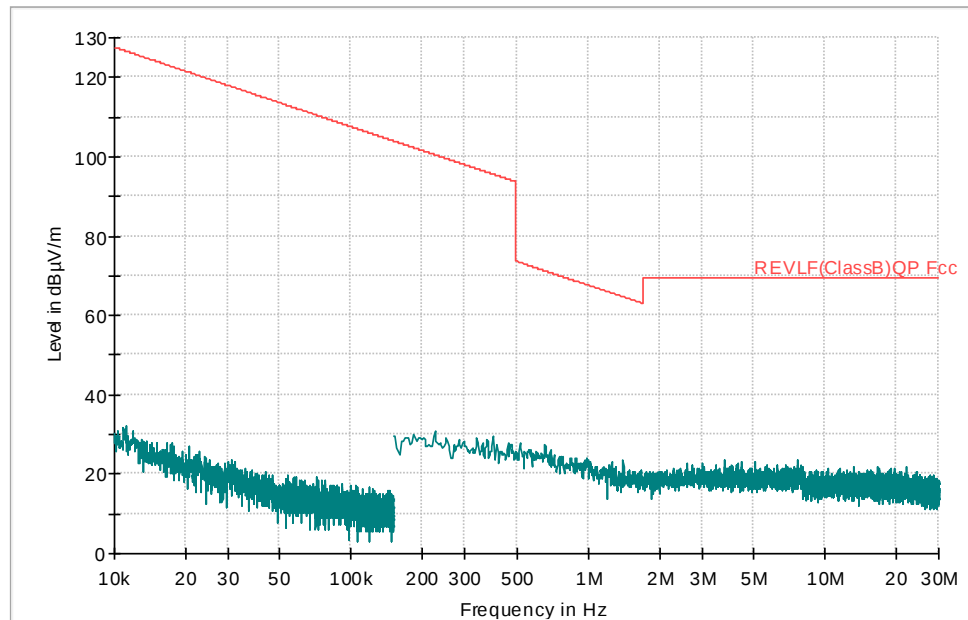
Note: Emissions above the limit line are due to intentional radiated emissions are subject to the rules of 15.247

Table 16: Max. Peak Data of Radiated Emissions at 3m SAC 30MHz to 1GHz

Frequency (MHz)	Max Peak (dBμV/m)	FCC Limit (dBμV/m)	FCC Margin (dB)	ISED Limit (dBμV/m)	ISED Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.8488	30.7	40.0	9.30	40.0	9.30	300.0	H	151	26.2
138.6400	24.9	43.5	18.60	43.5	18.60	200.0	H	109	19.0
406.1175	27.0	46.0	19.00	47.0	20.00	150.0	H	85	22.1
902.2725	54.9	46.0	-8.90	47.0	-7.90	100.0	H	0	29.2
903.3638	48.3	46.0	-2.30	47.0	-1.30	300.0	H	315	29.2
905.7888	46.5	46.0	-0.50	47.0	0.50	300.0	H	345	29.1
908.2138	54.9	46.0	-8.90	47.0	-7.90	150.0	H	126	29.1
909.1838	47.0	46.0	-1.00	47.0	0.00	200.0	H	235	29.1
909.9113	56.9	46.0	-10.90	47.0	-9.90	100.0	H	108	29.1
915.1250	55.8	46.0	-9.80	47.0	-8.80	100.0	H	302	29.2
915.6100	47.2	46.0	-1.20	47.0	-0.20	250.0	H	0	29.2
919.0050	46.5	46.0	-0.50	47.0	0.50	100.0	H	170	29.3
922.5213	45.0	46.0	1.00	47.0	2.00	300.0	H	315	29.3
926.8863	51.9	46.0	-5.90	47.0	-4.90	100.0	H	108	29.5
927.8563	56.0	46.0	-10.00	47.0	-9.00	100.0	H	88	29.5
996.2413	41.7	54.0	12.30	54.0	12.30	150.0	H	198	30.5

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 10kHz to 30MHz
- Meter Form: 9S

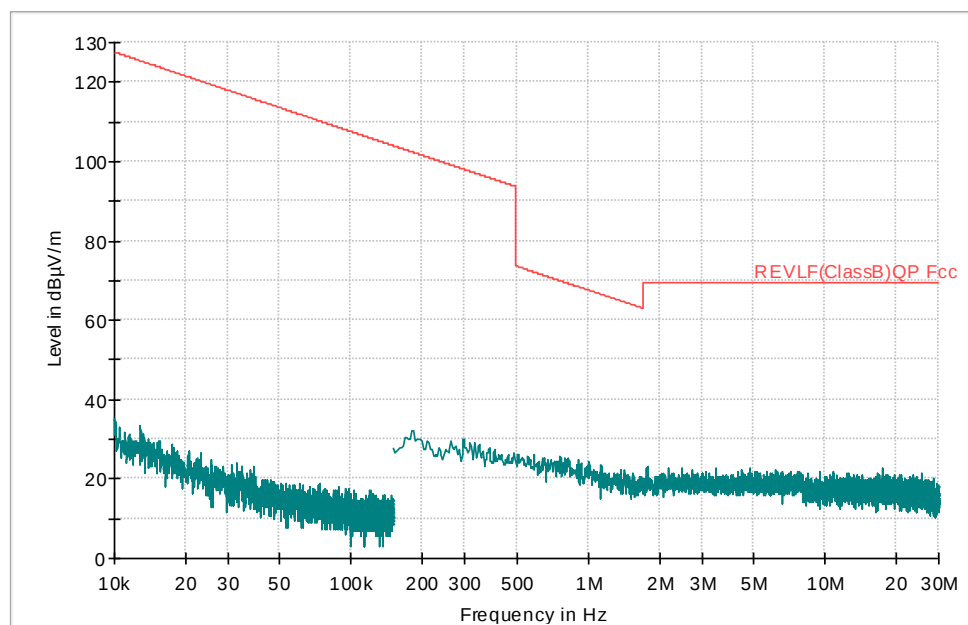
Horizontal



Plot 69: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Horz

Note: No emissions of significance were observed

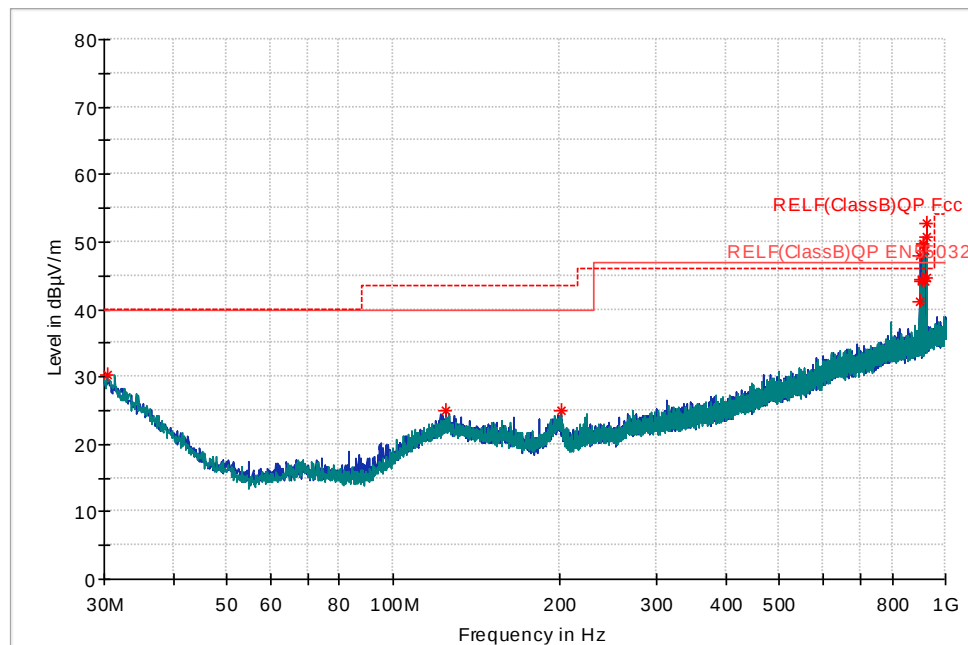
Vertical



Plot 70: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Vert

Note: No emissions of significance were observed

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 30MHz to 1GHz
- Meter Form: 9S



Plot 71: Radiated Emissions at 3m SAC, 30MHz to 1GHz

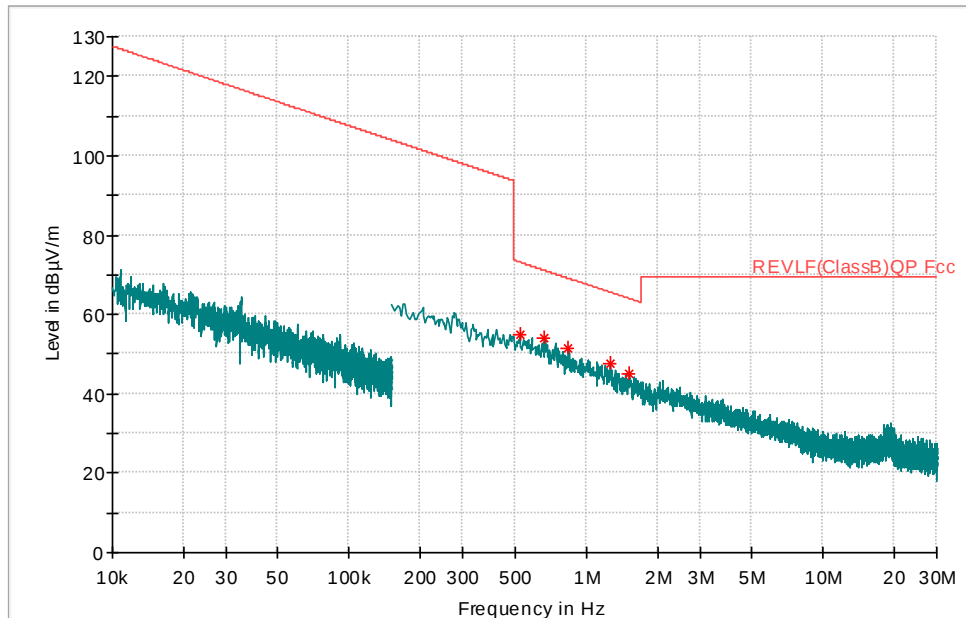
Note: Emissions above the limit line are due to intentional radiated emissions are subject to the rules of 15.247

Table 17: Max. Peak Data of Radiated Emissions at 3m SAC 30MHz to 1GHz

Frequency (MHz)	Max Peak (dBμV/m)	FCC Limit (dBμV/m)	FCC Margin (dB)	ISED Limit (dBμV/m)	ISED Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.3880	30.37	40.0	9.63	40.0	9.63	400.0	V	0	26.5
124.6720	25.03	43.5	18.47	43.5	18.47	200.0	H	290	19.9
201.0110	25.09	43.5	18.41	43.5	18.41	100.0	V	253	19.4
896.0160	41.07	46.0	4.93	47.0	5.93	100.0	H	170	31.0
902.3210	47.98	46.0	-1.98	47.0	-0.98	150.0	H	0	31.2
903.2910	44.12	46.0	1.88	47.0	2.88	150.0	H	267	31.2
908.1410	44.32	46.0	1.68	47.0	2.68	150.0	V	0	31.2
909.8870	49.55	46.0	-3.55	47.0	-2.55	200.0	H	0	31.2
915.2220	49.82	46.0	-3.82	47.0	-2.82	100.0	V	15	31.2
915.5130	48.67	46.0	-2.67	47.0	-1.67	200.0	H	356	31.2
918.9080	44.19	46.0	1.81	47.0	2.81	350.0	H	204	31.4
922.4970	44.72	46.0	1.28	47.0	2.28	150.0	H	0	31.4
926.8620	50.74	46.0	-4.74	47.0	-3.74	200.0	H	0	31.5
927.8320	52.76	46.0	-6.76	47.0	-5.76	100.0	H	193	31.5

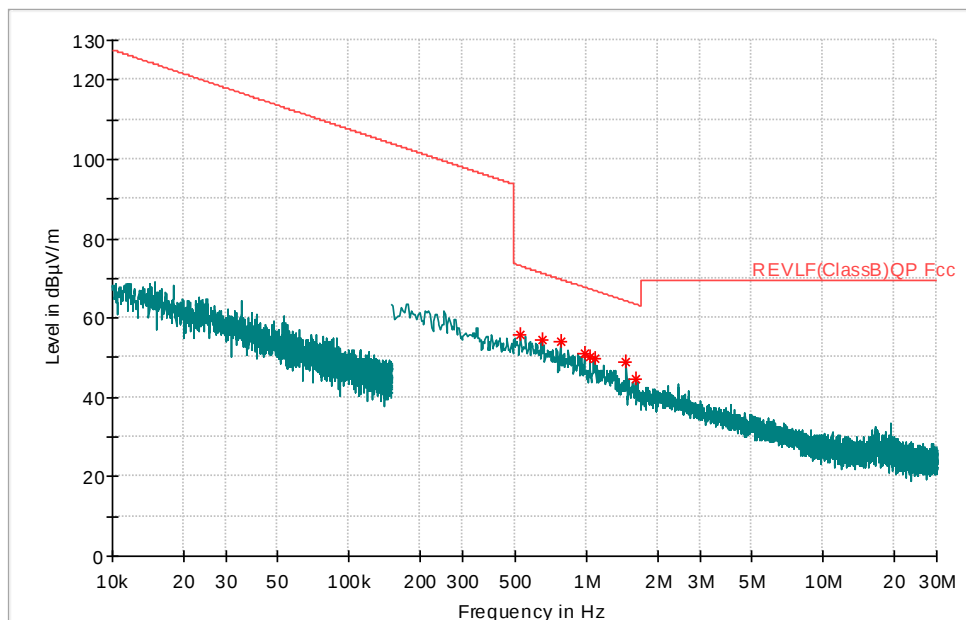
- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 10kHz to 30MHz
- Meter Form: 12S

Horizontal



Plot 72: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Horz

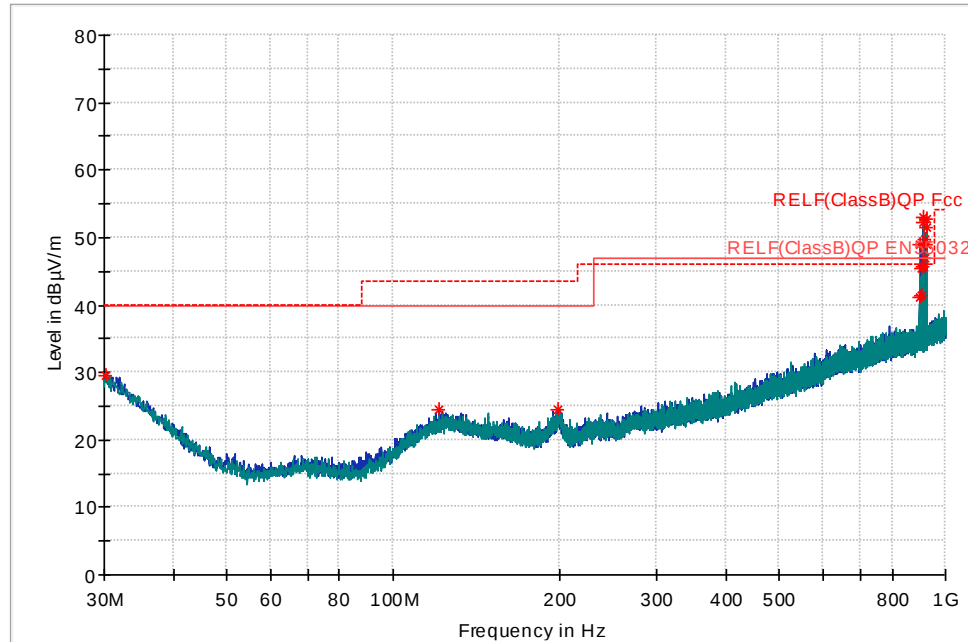
Vertical



Plot 73: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Vert

Note: No emissions of significance were observed

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 30MHz to 1GHz
- Meter Form: 12S



Plot 74: Radiated Emissions at 3m SAC, 30MHz to 1GHz

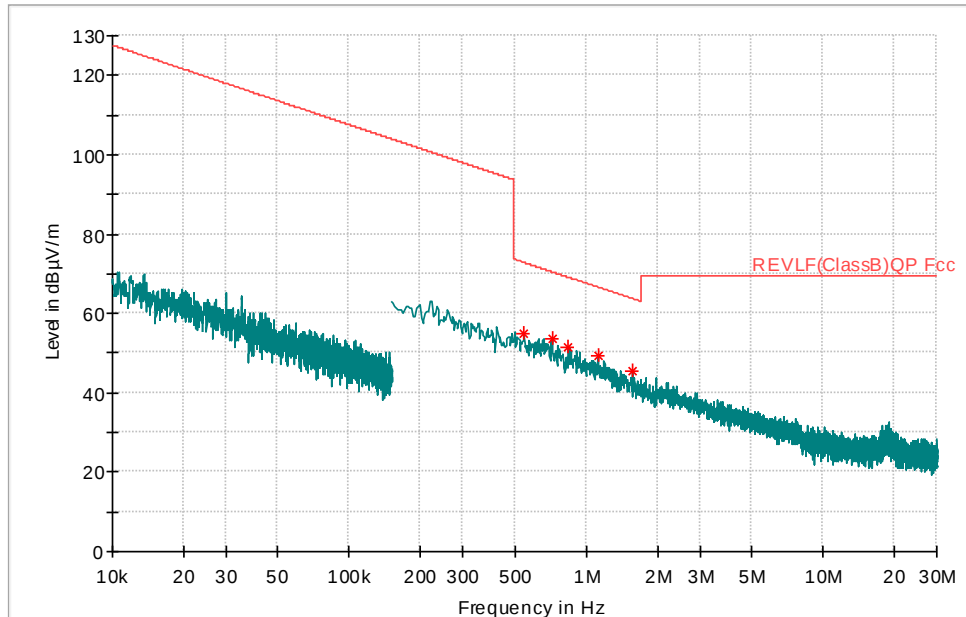
Note: Emissions above the limit line are due to intentional radiated emissions are subject to the rules of 15.247

Table 18: Max. Peak Data of Radiated Emissions at 3m SAC 30MHz to 1GHz

Frequency (MHz)	Max Peak (dBµV/m)	FCC Limit (dBµV/m)	FCC Margin (dB)	ISED Limit (dBµV/m)	ISED Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.2910	29.41	40.0	10.59	40.0	10.59	250.0	V	108	26.5
121.4710	24.55	43.5	18.95	43.5	18.95	100.0	H	262	19.7
199.4590	24.53	43.5	18.97	43.5	18.97	350.0	H	186	19.6
896.0160	41.06	46.0	4.94	47.0	5.94	150.0	V	172	31.0
902.3210	48.88	46.0	-2.88	47.0	-1.88	150.0	H	20	31.2
903.1940	41.46	46.0	4.54	47.0	5.54	300.0	H	324	31.2
908.0440	45.36	46.0	0.64	47.0	1.64	150.0	V	354	31.2
909.1110	45.69	46.0	0.31	47.0	1.31	100.0	H	29	31.2
909.9840	52.15	46.0	-6.15	47.0	-5.15	150.0	H	88	31.2
915.1250	53.11	46.0	-7.11	47.0	-6.11	100.0	V	0	31.2
915.5130	46.98	46.0	-0.98	47.0	0.02	100.0	H	0	31.2
918.9080	49.71	46.0	-3.71	47.0	-2.71	100.0	H	218	31.4
922.4970	48.86	46.0	-2.86	47.0	-1.86	100.0	H	190	31.4
926.8620	51.59	46.0	-5.59	47.0	-4.59	150.0	H	88	31.5
927.8320	52.68	46.0	-6.68	47.0	-5.68	200.0	H	0	31.5

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 10kHz to 30MHz
- Meter Form: 16S

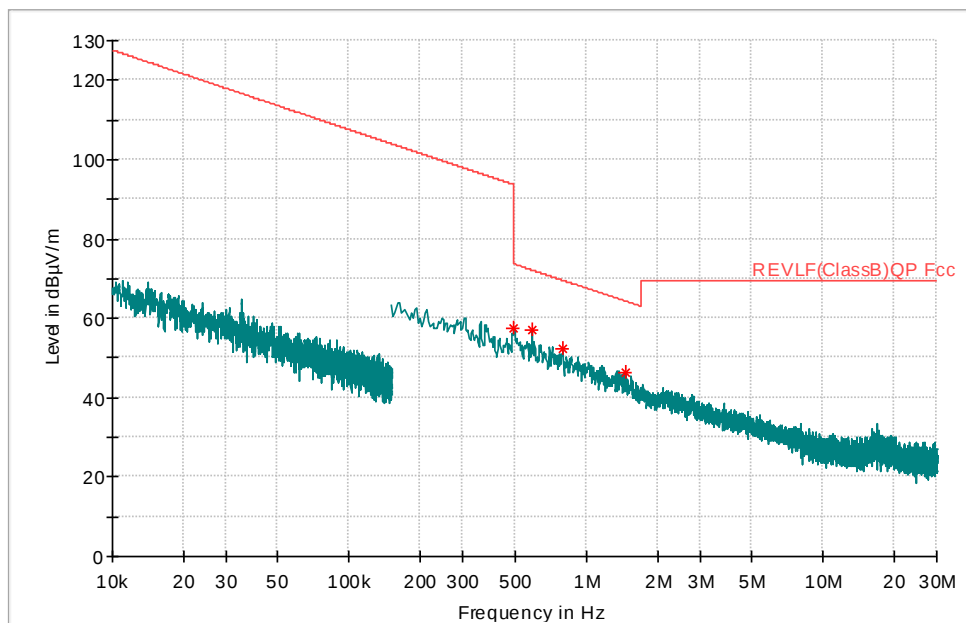
Horizontal



Plot 75: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Horz

Note: No emissions of significance were observed

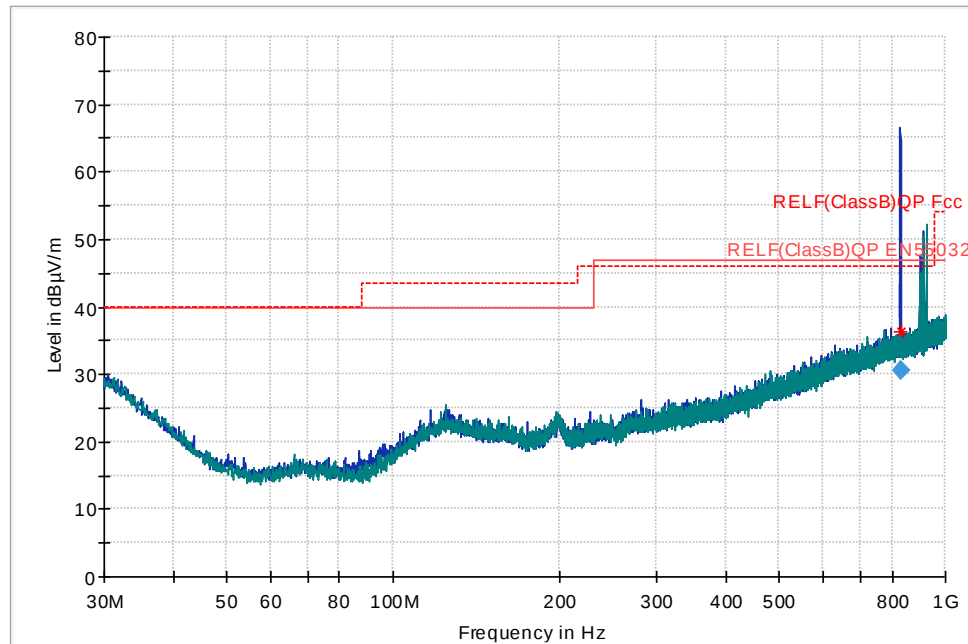
Vertical



Plot 76: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Vert

Note: No emissions of significance were observed

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 30MHz to 1GHz
- Meter Form: 16S



Plot 77: Radiated Emissions at 3m SAC, 30MHz to 1GHz

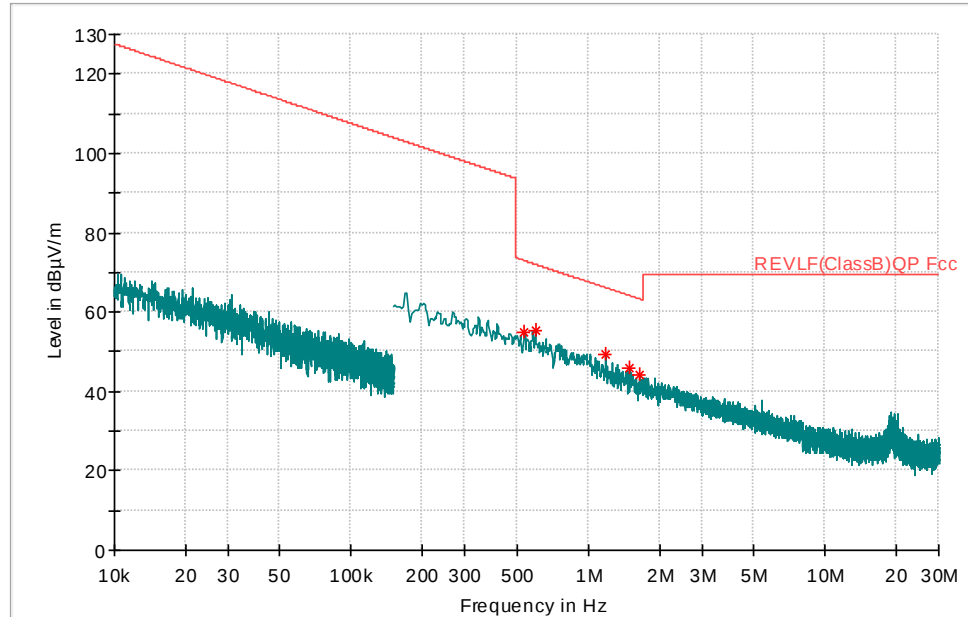
Note: Emissions above the limit line are due to intentional radiated emissions are subject to the rules of 15.247

Table 19: Quasi Peak Data of Radiated Emissions at 3m SAC 30MHz to 1GHz

Frequency (MHz)	Quasi Peak (dBµV/m)	FCC Limit (dBµV/m)	FCC Margin (dB)	ISED Limit (dBµV/m)	ISED Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
829.0672	30.46	46.0	15.54	47.0	16.54	1000.0	120.0	286.0	H	329	30.5

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 10kHz to 30MHz
- Meter Form: 45S

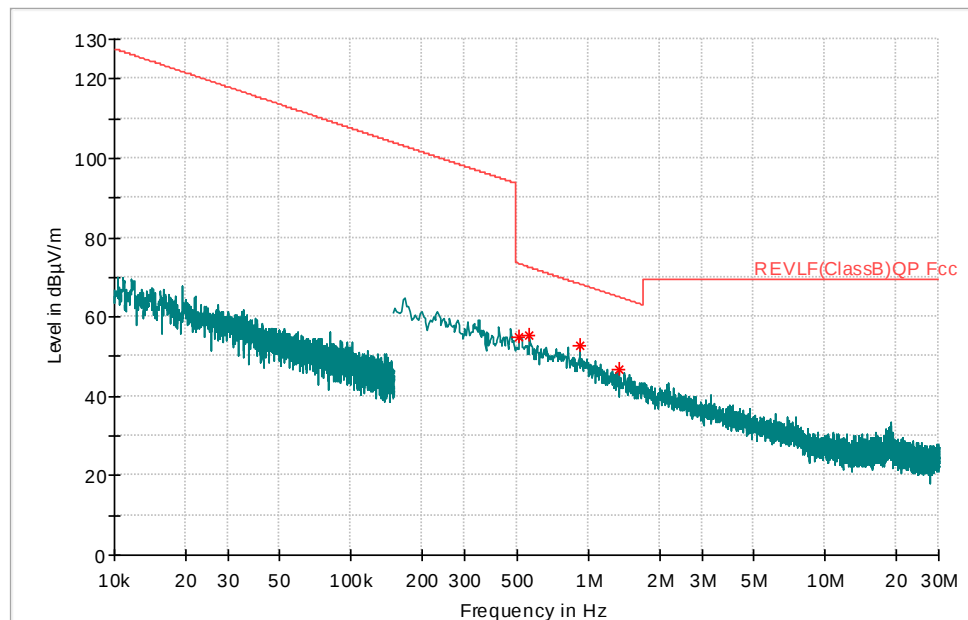
Horizontal



Plot 78: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Horz

Note: No emissions of significance were observed

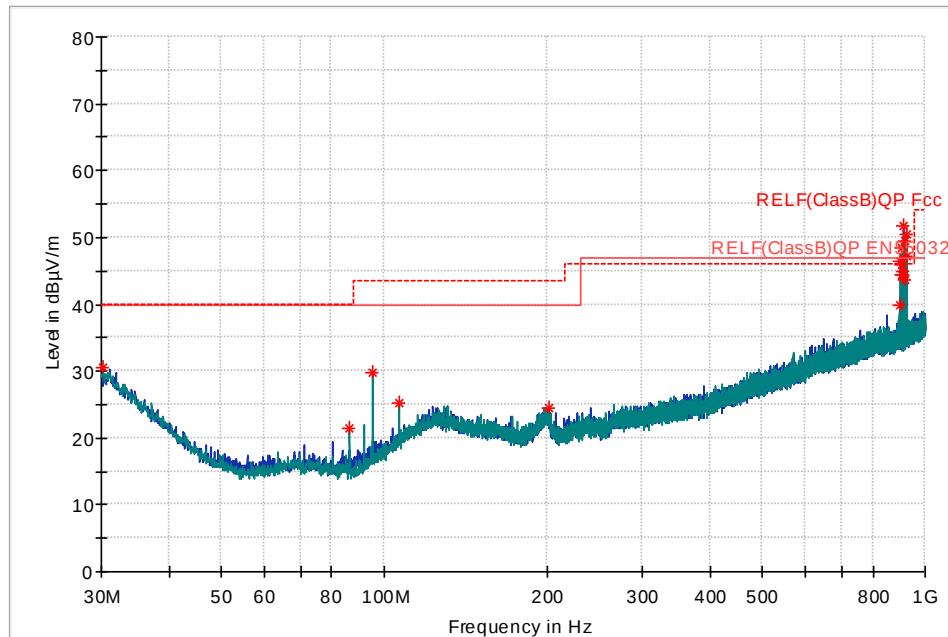
Vertical



Plot 79: Radiated Emissions at 3m SAC, 10 k to 30 MHz, Vert

Note: No emissions of significance were observed

- Test Voltage Used: 120VAC/60 Hz
- Frequency Range: 30MHz to 1GHz
- Meter Form: 45S



Plot 80: Radiated Emissions at 3m SAC, 30MHz to 1GHz

Note: Emissions above the limit line are due to intentional radiated emissions are subject to the rules of 15.247

Table 20: Max. Peak Data of Radiated Emissions at 3m SAC 30MHz to 1GHz

Frequency (MHz)	Max Peak (dBµV/m)	FCC Limit (dBµV/m)	FCC Margin (dB)	ISED Limit (dBµV/m)	ISED Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.2910	30.47	40.0	9.53	40.0	9.53	150.0	V	147	26.5
86.3570	21.49	40.0	18.51	40.0	18.51	100.0	V	241	13.0
95.0870	29.80	43.5	13.70	43.5	13.70	100.0	V	308	14.3
106.7270	25.21	43.5	18.29	43.5	18.29	100.0	V	308	17.7
201.9810	24.55	43.5	18.95	43.5	18.95	100.0	H	0	19.1
896.0160	39.82	46.0	6.18	47.0	7.18	400.0	H	78	31.0
902.3210	46.33	46.0	-0.33	47.0	0.67	150.0	H	0	31.2
903.1940	45.87	46.0	0.13	47.0	1.13	100.0	H	219	31.2
905.9100	44.54	46.0	1.46	47.0	2.46	150.0	V	126	31.2
908.1410	48.53	46.0	-2.53	47.0	-1.53	100.0	V	308	31.2
909.2080	44.44	46.0	1.56	47.0	2.56	100.0	H	14	31.2
910.1780	44.96	46.0	1.04	47.0	2.04	200.0	H	0	31.2
915.1250	51.71	46.0	-5.71	47.0	-4.71	150.0	H	340	31.2
915.6100	49.36	46.0	-3.36	47.0	-2.36	200.0	V	0	31.2
918.9080	43.64	46.0	2.36	47.0	3.36	200.0	H	338	31.4
926.8620	47.21	46.0	-1.21	47.0	-0.21	200.0	V	0	31.5
927.8320	50.37	46.0	-4.37	47.0	-3.37	100.0	V	0	31.5

3.14 Unintentional Conducted Emissions

Date Performed:

August 4 2021

Test Standard:

As per [Section 2.4](#) of this report

Required Limit:

As per [Section 2.6](#) of this report

Test Method:

As per [Section 2.4](#) of this report

Modifications:

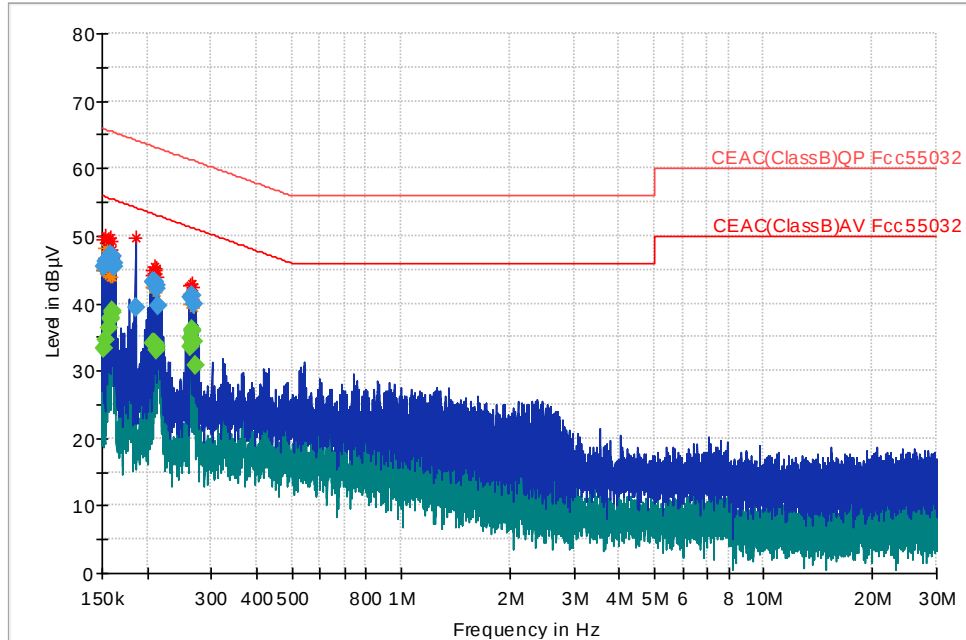
No modification was required to **comply** for this test.

Result:

The EUT **comply** with the applicable standard.

Measurement Data and Plot:

- Test Voltage Used: 120VAC/60Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 2S

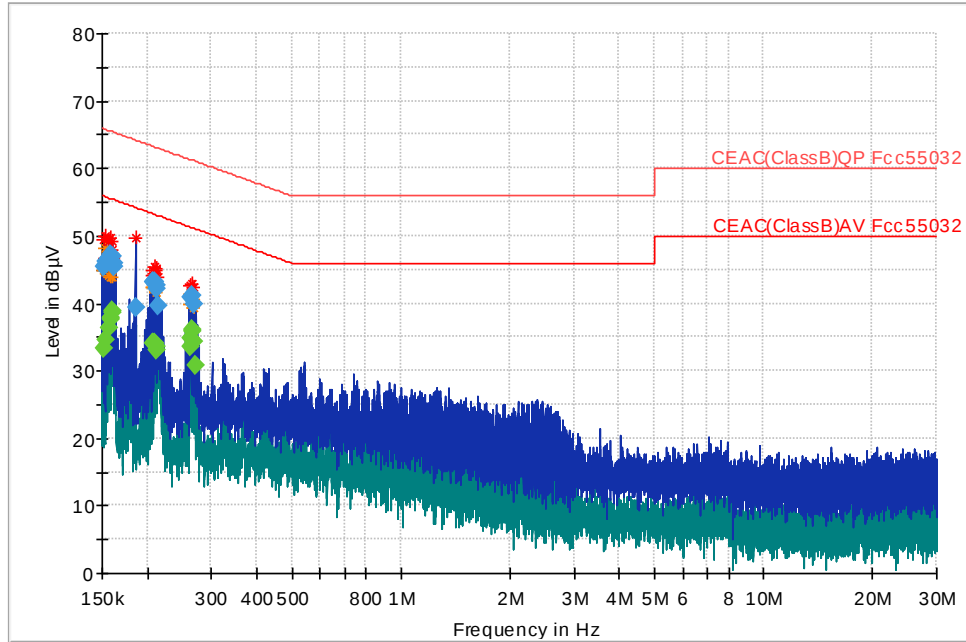


Plot 81: Conducted Emissions-Line 1

Table 21: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1520	---	33.21	55.89	22.68	1000.0	9.0	GND	10.4
0.1520	45.43	---	65.89	20.46	1000.0	9.0	GND	10.4
0.1530	45.55	---	65.84	20.28	1000.0	9.0	GND	10.4
0.1540	---	34.70	55.78	21.08	1000.0	9.0	GND	10.4
0.1540	46.28	---	65.78	19.50	1000.0	9.0	GND	10.4
0.1560	46.78	---	65.67	18.89	1000.0	9.0	GND	10.3
0.1560	---	36.32	55.67	19.35	1000.0	9.0	GND	10.3
0.1576	---	37.58	55.59	18.01	1000.0	9.0	GND	10.3
0.1582	47.14	---	65.56	18.42	1000.0	9.0	GND	10.3
0.1584	---	37.95	55.55	17.60	1000.0	9.0	GND	10.3
0.1598	46.99	---	65.47	18.48	1000.0	9.0	GND	10.3
0.1598	---	38.86	55.47	16.62	1000.0	9.0	GND	10.3
0.1602	46.93	---	65.45	18.52	1000.0	9.0	GND	10.3
0.1604	---	38.64	55.44	16.81	1000.0	9.0	GND	10.3
0.1620	45.91	---	65.36	19.46	1000.0	9.0	GND	10.3
0.1624	45.32	---	65.34	20.02	1000.0	9.0	GND	10.3
0.1852	39.29	---	64.25	24.96	1000.0	9.0	GND	10.3
0.2064	---	33.95	53.35	19.39	1000.0	9.0	GND	10.3
0.2074	---	34.08	53.31	19.23	1000.0	9.0	GND	10.3
0.2076	43.17	---	63.30	20.13	1000.0	9.0	GND	10.3
0.2084	43.22	---	63.27	20.05	1000.0	9.0	GND	10.3
0.2086	---	34.01	53.26	19.26	1000.0	9.0	GND	10.3
0.2094	43.24	---	63.23	19.99	1000.0	9.0	GND	10.3
0.2094	---	34.00	53.23	19.23	1000.0	9.0	GND	10.3
0.2106	43.04	---	63.18	20.14	1000.0	9.0	GND	10.2
0.2106	---	33.83	53.18	19.35	1000.0	9.0	GND	10.2
0.2116	---	33.48	53.14	19.67	1000.0	9.0	GND	10.2
0.2116	42.72	---	63.14	20.42	1000.0	9.0	GND	10.2
0.2126	42.11	---	63.10	21.00	1000.0	9.0	GND	10.2
0.2126	---	33.09	53.10	20.01	1000.0	9.0	GND	10.2
0.2150	39.69	---	63.01	23.32	1000.0	9.0	GND	10.2
0.2630	---	33.62	51.34	17.72	1000.0	9.0	GND	10.2
0.2640	40.96	---	61.31	20.34	1000.0	9.0	GND	10.2
0.2640	---	34.81	51.31	16.49	1000.0	9.0	GND	10.2
0.2650	---	35.72	51.27	15.55	1000.0	9.0	GND	10.2
0.2660	41.07	---	61.24	20.17	1000.0	9.0	GND	10.2
0.2662	---	35.97	51.24	15.27	1000.0	9.0	GND	10.2
0.2686	---	34.27	51.16	16.89	1000.0	9.0	GND	10.2
0.2688	39.85	---	61.16	21.31	1000.0	9.0	GND	10.2
0.2708	---	30.75	51.09	20.34	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 2S

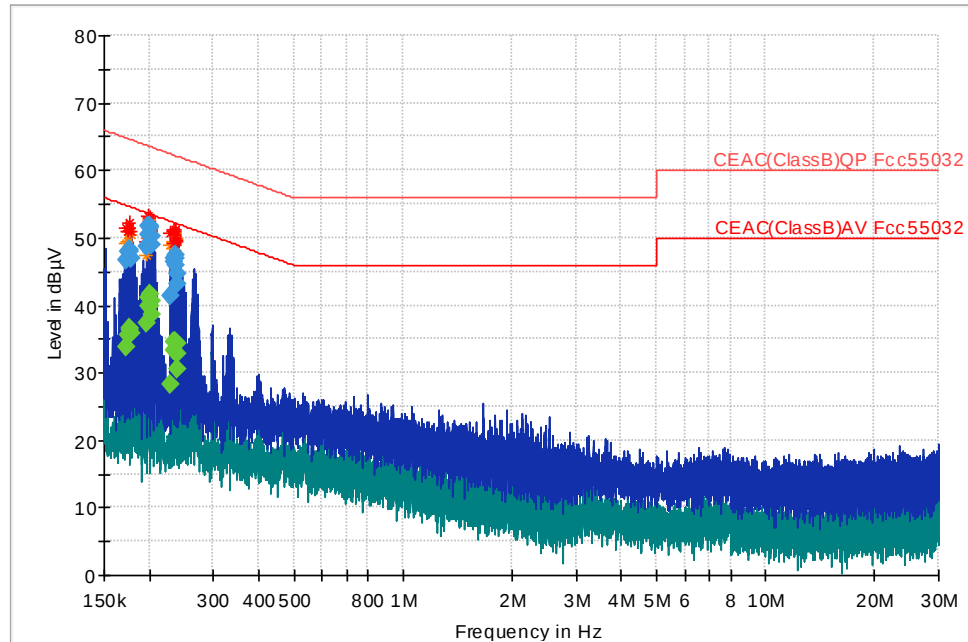


Plot 82: Conducted Emissions–Line 2

Table 22: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1520	---	33.21	55.89	22.68	1000.0	9.0	GND	10.4
0.1520	45.43	---	65.89	20.46	1000.0	9.0	GND	10.4
0.1530	45.55	---	65.84	20.28	1000.0	9.0	GND	10.4
0.1540	---	34.70	55.78	21.08	1000.0	9.0	GND	10.4
0.1540	46.28	---	65.78	19.50	1000.0	9.0	GND	10.4
0.1560	46.78	---	65.67	18.89	1000.0	9.0	GND	10.3
0.1560	---	36.32	55.67	19.35	1000.0	9.0	GND	10.3
0.1576	---	37.58	55.59	18.01	1000.0	9.0	GND	10.3
0.1582	47.14	---	65.56	18.42	1000.0	9.0	GND	10.3
0.1584	---	37.95	55.55	17.60	1000.0	9.0	GND	10.3
0.1598	46.99	---	65.47	18.48	1000.0	9.0	GND	10.3
0.1598	---	38.86	55.47	16.62	1000.0	9.0	GND	10.3
0.1602	46.93	---	65.45	18.52	1000.0	9.0	GND	10.3
0.1604	---	38.64	55.44	16.81	1000.0	9.0	GND	10.3
0.1620	45.91	---	65.36	19.46	1000.0	9.0	GND	10.3
0.1624	45.32	---	65.34	20.02	1000.0	9.0	GND	10.3
0.1852	39.29	---	64.25	24.96	1000.0	9.0	GND	10.3
0.2064	---	33.95	53.35	19.39	1000.0	9.0	GND	10.3
0.2074	---	34.08	53.31	19.23	1000.0	9.0	GND	10.3
0.2076	43.17	---	63.30	20.13	1000.0	9.0	GND	10.3
0.2084	43.22	---	63.27	20.05	1000.0	9.0	GND	10.3
0.2086	---	34.01	53.26	19.26	1000.0	9.0	GND	10.3
0.2094	43.24	---	63.23	19.99	1000.0	9.0	GND	10.3
0.2094	---	34.00	53.23	19.23	1000.0	9.0	GND	10.3
0.2106	43.04	---	63.18	20.14	1000.0	9.0	GND	10.2
0.2106	---	33.83	53.18	19.35	1000.0	9.0	GND	10.2
0.2116	---	33.48	53.14	19.67	1000.0	9.0	GND	10.2
0.2116	42.72	---	63.14	20.42	1000.0	9.0	GND	10.2
0.2126	42.11	---	63.10	21.00	1000.0	9.0	GND	10.2
0.2126	---	33.09	53.10	20.01	1000.0	9.0	GND	10.2
0.2150	39.69	---	63.01	23.32	1000.0	9.0	GND	10.2
0.2630	---	33.62	51.34	17.72	1000.0	9.0	GND	10.2
0.2640	40.96	---	61.31	20.34	1000.0	9.0	GND	10.2
0.2640	---	34.81	51.31	16.49	1000.0	9.0	GND	10.2
0.2650	---	35.72	51.27	15.55	1000.0	9.0	GND	10.2
0.2660	41.07	---	61.24	20.17	1000.0	9.0	GND	10.2
0.2662	---	35.97	51.24	15.27	1000.0	9.0	GND	10.2
0.2686	---	34.27	51.16	16.89	1000.0	9.0	GND	10.2
0.2688	39.85	---	61.16	21.31	1000.0	9.0	GND	10.2
0.2708	---	30.75	51.09	20.34	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 2S



Plot 83: Conducted Emissions–Line 1

Table 23: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1732	---	33.82	54.81	20.99	1000.0	9.0	GND	10.3
0.1732	46.56	---	64.81	18.24	1000.0	9.0	GND	10.3
0.1746	47.89	---	64.74	16.85	1000.0	9.0	GND	10.3
0.1748	---	35.55	54.73	19.18	1000.0	9.0	GND	10.3
0.1758	---	36.44	54.68	18.24	1000.0	9.0	GND	10.3
0.1760	48.32	---	64.67	16.35	1000.0	9.0	GND	10.3
0.1770	47.93	---	64.63	16.70	1000.0	9.0	GND	10.3
0.1770	---	36.57	54.63	18.05	1000.0	9.0	GND	10.3
0.1784	---	35.72	54.56	18.84	1000.0	9.0	GND	10.3
0.1784	46.88	---	64.56	17.68	1000.0	9.0	GND	10.3
0.1962	---	37.39	53.77	16.38	1000.0	9.0	GND	10.3
0.1966	48.62	---	63.75	15.13	1000.0	9.0	GND	10.3
0.1978	---	40.00	53.70	13.70	1000.0	9.0	GND	10.3
0.1978	50.56	---	63.70	13.14	1000.0	9.0	GND	10.3
0.1988	---	41.03	53.66	12.63	1000.0	9.0	GND	10.3
0.1992	51.65	---	63.64	11.99	1000.0	9.0	GND	10.3
0.2000	---	41.65	53.61	11.96	1000.0	9.0	GND	10.3
0.2004	51.81	---	63.59	11.78	1000.0	9.0	GND	10.3
0.2014	51.40	---	63.55	12.15	1000.0	9.0	GND	10.3
0.2014	---	39.85	53.55	13.70	1000.0	9.0	GND	10.3
0.2026	50.31	---	63.50	13.19	1000.0	9.0	GND	10.3
0.2026	---	40.54	53.50	12.96	1000.0	9.0	GND	10.3
0.2038	48.86	---	63.45	14.60	1000.0	9.0	GND	10.3
0.2040	---	38.50	53.45	14.94	1000.0	9.0	GND	10.3
0.2286	41.28	---	62.50	21.22	1000.0	9.0	GND	10.2
0.2286	---	28.29	52.50	24.21	1000.0	9.0	GND	10.2
0.2324	46.40	---	62.36	15.96	1000.0	9.0	GND	10.2
0.2324	---	33.30	52.36	19.07	1000.0	9.0	GND	10.2
0.2334	47.02	---	62.33	15.31	1000.0	9.0	GND	10.2
0.2336	---	34.59	52.32	17.73	1000.0	9.0	GND	10.2
0.2348	47.38	---	62.28	14.89	1000.0	9.0	GND	10.2
0.2348	---	34.67	52.28	17.61	1000.0	9.0	GND	10.2
0.2360	47.01	---	62.24	15.23	1000.0	9.0	GND	10.2
0.2362	---	34.47	52.23	17.76	1000.0	9.0	GND	10.2
0.2372	46.00	---	62.19	16.20	1000.0	9.0	GND	10.2
0.2374	---	34.33	52.19	17.85	1000.0	9.0	GND	10.2
0.2384	44.76	---	62.15	17.39	1000.0	9.0	GND	10.2
0.2386	---	32.69	52.15	19.45	1000.0	9.0	GND	10.2
0.2398	---	30.64	52.10	21.47	1000.0	9.0	GND	10.2
0.2398	43.15	---	62.10	18.95	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 2S

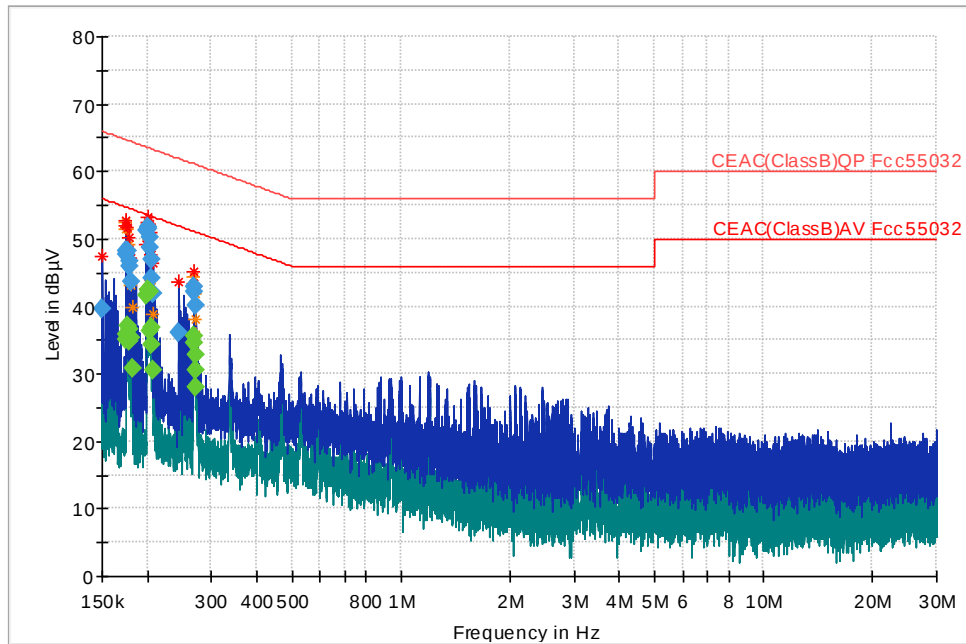
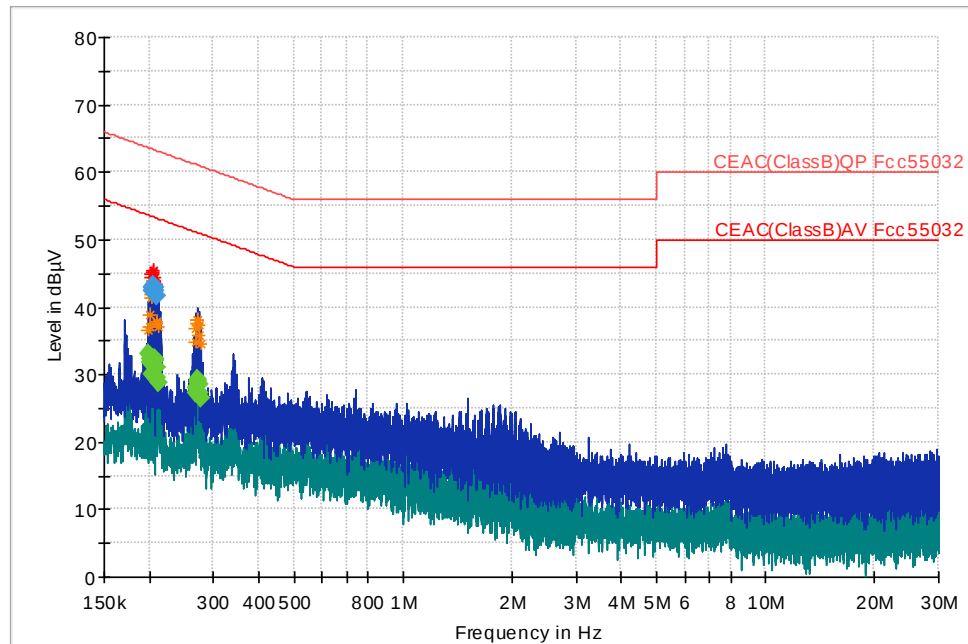


Table 24: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1508	39.70	---	65.96	26.26	1000.0	9.0	GND	10.4
0.1742	---	35.00	54.76	19.76	1000.0	9.0	GND	10.3
0.1742	47.61	---	64.76	17.15	1000.0	9.0	GND	10.3
0.1754	---	35.77	54.70	18.93	1000.0	9.0	GND	10.3
0.1754	48.27	---	64.70	16.43	1000.0	9.0	GND	10.3
0.1764	48.13	---	64.65	16.53	1000.0	9.0	GND	10.3
0.1766	---	37.02	54.64	17.62	1000.0	9.0	GND	10.3
0.1778	---	36.58	54.59	18.01	1000.0	9.0	GND	10.3
0.1782	46.77	---	64.57	17.80	1000.0	9.0	GND	10.3
0.1790	45.83	---	64.53	18.70	1000.0	9.0	GND	10.3
0.1792	---	34.94	54.52	19.58	1000.0	9.0	GND	10.3
0.1804	---	35.24	54.47	19.23	1000.0	9.0	GND	10.3
0.1808	43.73	---	64.45	20.72	1000.0	9.0	GND	10.3
0.1816	---	30.70	54.41	23.71	1000.0	9.0	GND	10.3
0.1986	51.10	---	63.67	12.56	1000.0	9.0	GND	10.3
0.1986	---	41.62	53.67	12.05	1000.0	9.0	GND	10.3
0.1998	51.62	---	63.62	12.00	1000.0	9.0	GND	10.3
0.1998	---	42.30	53.62	11.32	1000.0	9.0	GND	10.3
0.2008	51.44	---	63.58	12.14	1000.0	9.0	GND	10.3
0.2012	---	42.35	53.56	11.21	1000.0	9.0	GND	10.3
0.2022	---	42.16	53.52	11.36	1000.0	9.0	GND	10.3
0.2022	50.32	---	63.52	13.20	1000.0	9.0	GND	10.3
0.2034	48.65	---	63.47	14.82	1000.0	9.0	GND	10.3
0.2034	---	36.40	53.47	17.07	1000.0	9.0	GND	10.3
0.2046	46.89	---	63.42	16.53	1000.0	9.0	GND	10.3
0.2048	---	36.94	53.41	16.48	1000.0	9.0	GND	10.3
0.2060	44.29	---	63.37	19.08	1000.0	9.0	GND	10.3
0.2060	---	34.29	53.37	19.08	1000.0	9.0	GND	10.3
0.2072	41.77	---	63.32	21.54	1000.0	9.0	GND	10.3
0.2072	---	30.58	53.32	22.74	1000.0	9.0	GND	10.3
0.2450	36.20	---	61.93	25.72	1000.0	9.0	GND	10.2
0.2674	43.01	---	61.20	18.19	1000.0	9.0	GND	10.2
0.2676	---	35.59	51.19	15.60	1000.0	9.0	GND	10.2
0.2688	---	34.69	51.16	16.47	1000.0	9.0	GND	10.2
0.2688	42.04	---	61.16	19.12	1000.0	9.0	GND	10.2
0.2702	---	32.80	51.11	18.32	1000.0	9.0	GND	10.2
0.2702	40.15	---	61.11	20.96	1000.0	9.0	GND	10.2
0.2714	---	30.57	51.08	20.51	1000.0	9.0	GND	10.2
0.2726	---	27.94	51.04	23.10	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 9S

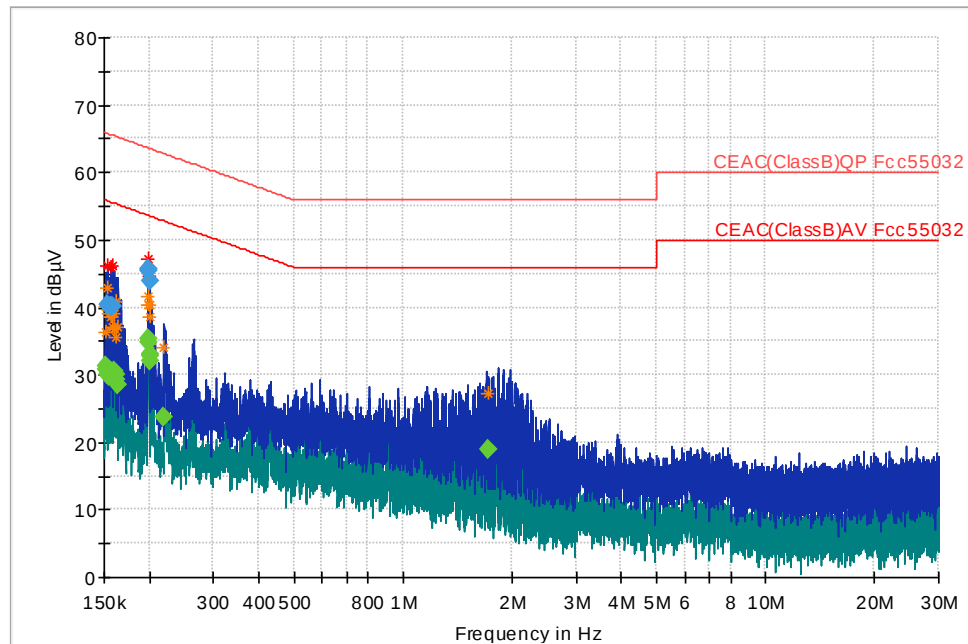


Plot 85: Conducted Emissions–Line 1

Table 25: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1994	---	33.04	53.64	20.60	1000.0	9.0	GND	10.3
0.2004	---	32.27	53.59	21.32	1000.0	9.0	GND	10.3
0.2016	---	31.79	53.54	21.75	1000.0	9.0	GND	10.3
0.2026	---	31.76	53.50	21.75	1000.0	9.0	GND	10.3
0.2026	42.45	---	63.50	21.06	1000.0	9.0	GND	10.3
0.2036	42.90	---	63.46	20.57	1000.0	9.0	GND	10.3
0.2036	---	30.12	53.46	23.34	1000.0	9.0	GND	10.3
0.2048	43.19	---	63.41	20.22	1000.0	9.0	GND	10.3
0.2048	---	32.40	53.41	21.02	1000.0	9.0	GND	10.3
0.2058	---	32.39	53.37	20.98	1000.0	9.0	GND	10.3
0.2058	43.13	---	63.37	20.24	1000.0	9.0	GND	10.3
0.2068	---	32.34	53.33	20.99	1000.0	9.0	GND	10.3
0.2070	42.83	---	63.33	20.50	1000.0	9.0	GND	10.3
0.2078	---	31.93	53.29	21.37	1000.0	9.0	GND	10.3
0.2078	42.45	---	63.29	20.84	1000.0	9.0	GND	10.3
0.2088	41.68	---	63.25	21.57	1000.0	9.0	GND	10.3
0.2090	---	30.94	53.25	22.30	1000.0	9.0	GND	10.3
0.2100	---	29.59	53.21	23.61	1000.0	9.0	GND	10.3
0.2110	---	28.88	53.17	24.29	1000.0	9.0	GND	10.2
0.2688	---	27.24	51.16	23.91	1000.0	9.0	GND	10.2
0.2698	---	28.11	51.12	23.01	1000.0	9.0	GND	10.2
0.2708	---	28.74	51.09	22.35	1000.0	9.0	GND	10.2
0.2720	---	29.17	51.06	21.88	1000.0	9.0	GND	10.2
0.2730	---	29.08	51.03	21.95	1000.0	9.0	GND	10.2
0.2740	---	28.59	51.00	22.41	1000.0	9.0	GND	10.2
0.2752	---	27.29	50.96	23.67	1000.0	9.0	GND	10.2
0.2762	---	26.41	50.93	24.52	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 9S

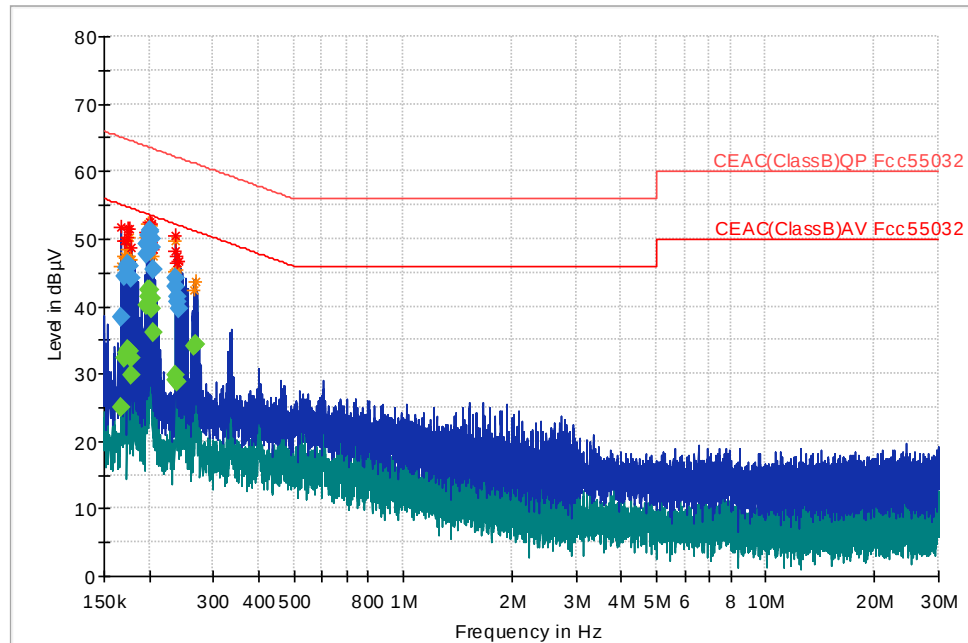


Plot 86: Conducted Emissions–Line 2

Table 26: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1510	---	31.18	55.95	24.77	1000.0	9.0	GND	10.4
0.1518	---	30.71	55.90	25.19	1000.0	9.0	GND	10.4
0.1528	---	29.94	55.85	25.90	1000.0	9.0	GND	10.4
0.1538	---	30.02	55.79	25.78	1000.0	9.0	GND	10.4
0.1540	40.45	---	65.78	25.33	1000.0	9.0	GND	10.4
0.1550	---	29.86	55.73	25.87	1000.0	9.0	GND	10.4
0.1560	---	30.14	55.67	25.53	1000.0	9.0	GND	10.3
0.1562	40.10	---	65.66	25.57	1000.0	9.0	GND	10.3
0.1574	---	30.44	55.60	25.16	1000.0	9.0	GND	10.3
0.1580	40.19	---	65.57	25.38	1000.0	9.0	GND	10.3
0.1582	---	30.28	55.56	25.28	1000.0	9.0	GND	10.3
0.1596	---	30.08	55.49	25.41	1000.0	9.0	GND	10.3
0.1602	---	30.43	55.45	25.03	1000.0	9.0	GND	10.3
0.1618	---	30.11	55.37	25.27	1000.0	9.0	GND	10.3
0.1624	---	29.19	55.34	26.15	1000.0	9.0	GND	10.3
0.1640	---	28.44	55.26	26.82	1000.0	9.0	GND	10.3
0.1982	---	35.34	53.69	18.34	1000.0	9.0	GND	10.3
0.1982	45.62	---	63.69	18.06	1000.0	9.0	GND	10.3
0.1986	---	34.71	53.67	18.96	1000.0	9.0	GND	10.3
0.1986	45.34	---	63.67	18.33	1000.0	9.0	GND	10.3
0.1998	---	32.95	53.62	20.67	1000.0	9.0	GND	10.3
0.2000	43.79	---	63.61	19.82	1000.0	9.0	GND	10.3
0.2008	---	32.86	53.58	20.72	1000.0	9.0	GND	10.3
0.2018	---	32.16	53.54	21.38	1000.0	9.0	GND	10.3
0.2200	---	23.71	52.82	29.11	1000.0	9.0	GND	10.2
1.7222	---	18.90	46.00	27.10	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 9S

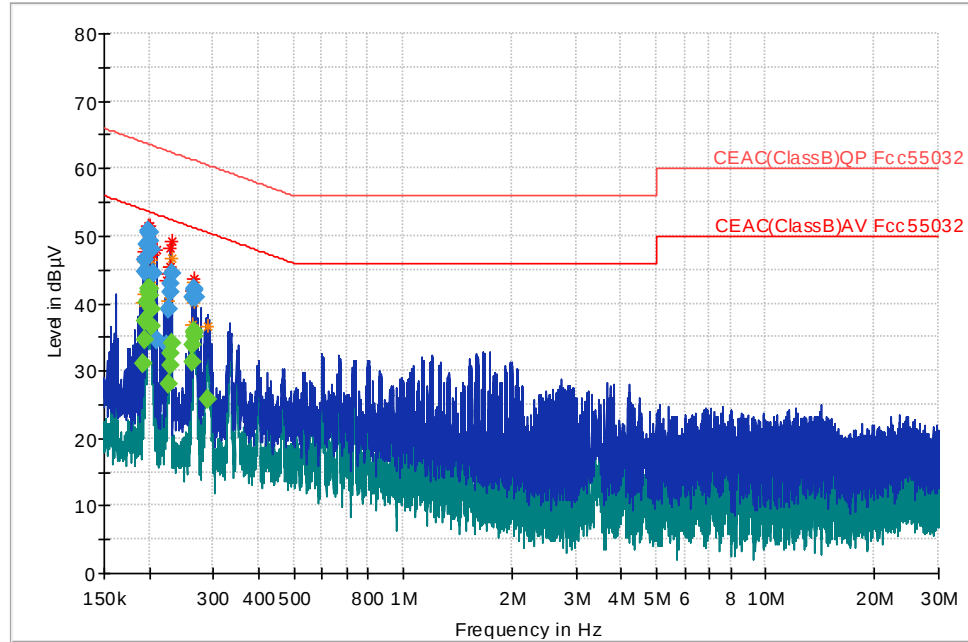


Plot 87: Conducted Emissions–Line 1

Table 27: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1664	---	25.03	55.14	30.11	1000.0	9.0	GND	10.3
0.1664	38.29	---	65.14	26.85	1000.0	9.0	GND	10.3
0.1712	44.50	---	64.90	20.40	1000.0	9.0	GND	10.3
0.1714	---	32.40	54.89	22.50	1000.0	9.0	GND	10.3
0.1728	45.74	---	64.83	19.08	1000.0	9.0	GND	10.3
0.1728	---	33.14	54.83	21.68	1000.0	9.0	GND	10.3
0.1738	46.22	---	64.78	18.56	1000.0	9.0	GND	10.3
0.1740	---	33.42	54.77	21.35	1000.0	9.0	GND	10.3
0.1750	46.29	---	64.72	18.43	1000.0	9.0	GND	10.3
0.1752	---	33.56	54.71	21.15	1000.0	9.0	GND	10.3
0.1762	45.88	---	64.66	18.79	1000.0	9.0	GND	10.3
0.1764	---	33.21	54.65	21.44	1000.0	9.0	GND	10.3
0.1778	---	32.26	54.59	22.33	1000.0	9.0	GND	10.3
0.1780	44.22	---	64.58	20.36	1000.0	9.0	GND	10.3
0.1790	---	29.71	54.53	24.82	1000.0	9.0	GND	10.3
0.1962	47.65	---	63.77	16.12	1000.0	9.0	GND	10.3
0.1970	49.19	---	63.74	14.55	1000.0	9.0	GND	10.3
0.1970	---	40.21	53.74	13.52	1000.0	9.0	GND	10.3
0.1982	---	41.29	53.69	12.39	1000.0	9.0	GND	10.3
0.1982	50.53	---	63.69	13.16	1000.0	9.0	GND	10.3
0.1994	---	42.47	53.64	11.17	1000.0	9.0	GND	10.3
0.1998	51.29	---	63.62	12.33	1000.0	9.0	GND	10.3
0.2006	51.03	---	63.59	12.56	1000.0	9.0	GND	10.3
0.2010	---	42.29	53.57	11.28	1000.0	9.0	GND	10.3
0.2022	50.07	---	63.52	13.45	1000.0	9.0	GND	10.3
0.2022	---	41.26	53.52	12.26	1000.0	9.0	GND	10.3
0.2032	48.73	---	63.48	14.74	1000.0	9.0	GND	10.3
0.2032	---	39.70	53.48	13.78	1000.0	9.0	GND	10.3
0.2048	45.47	---	63.41	17.94	1000.0	9.0	GND	10.3
0.2048	---	36.14	53.41	17.27	1000.0	9.0	GND	10.3
0.2354	---	29.90	52.26	22.36	1000.0	9.0	GND	10.2
0.2354	44.21	---	62.26	18.05	1000.0	9.0	GND	10.2
0.2366	42.82	---	62.22	19.40	1000.0	9.0	GND	10.2
0.2366	---	28.91	52.22	23.31	1000.0	9.0	GND	10.2
0.2378	---	28.76	52.17	23.41	1000.0	9.0	GND	10.2
0.2380	41.33	---	62.17	20.84	1000.0	9.0	GND	10.2
0.2392	40.68	---	62.12	21.45	1000.0	9.0	GND	10.2
0.2406	39.62	---	62.08	22.45	1000.0	9.0	GND	10.2
0.2650	---	34.01	51.27	17.26	1000.0	9.0	GND	10.2
0.2676	---	34.31	51.19	16.89	1000.0	9.0	GND	10.2

- Test Voltage Used: 230VAC/50Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 9S

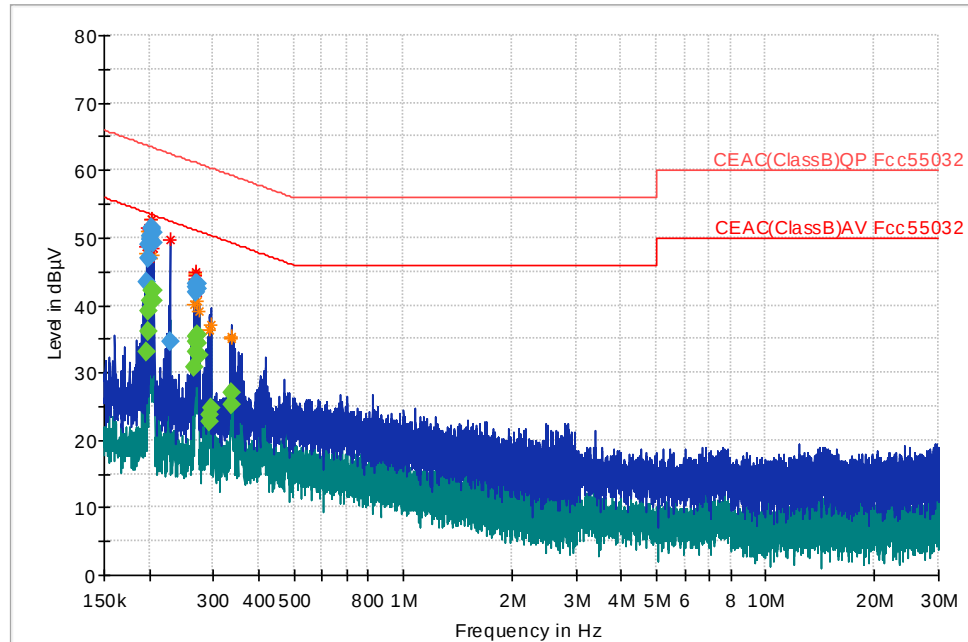


Plot 88: Conducted Emissions–Line 2

Table 28: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1928	---	31.02	53.92	22.89	1000.0	9.0	GND	10.3
0.1940	---	34.58	53.86	19.28	1000.0	9.0	GND	10.3
0.1944	44.79	---	63.85	19.06	1000.0	9.0	GND	10.3
0.1952	46.56	---	63.81	17.26	1000.0	9.0	GND	10.3
0.1952	---	37.33	53.81	16.49	1000.0	9.0	GND	10.3
0.1964	48.80	---	63.76	14.96	1000.0	9.0	GND	10.3
0.1966	---	40.05	53.75	13.70	1000.0	9.0	GND	10.3
0.1978	---	41.53	53.70	12.17	1000.0	9.0	GND	10.3
0.1980	50.40	---	63.69	13.30	1000.0	9.0	GND	10.3
0.1992	50.65	---	63.64	12.99	1000.0	9.0	GND	10.3
0.1992	---	42.23	53.64	11.41	1000.0	9.0	GND	10.3
0.2002	---	42.11	53.60	11.49	1000.0	9.0	GND	10.3
0.2002	50.47	---	63.60	13.13	1000.0	9.0	GND	10.3
0.2014	---	41.17	53.55	12.38	1000.0	9.0	GND	10.3
0.2018	49.23	---	63.54	14.31	1000.0	9.0	GND	10.3
0.2026	48.05	---	63.50	15.46	1000.0	9.0	GND	10.3
0.2028	---	39.07	53.50	14.43	1000.0	9.0	GND	10.3
0.2040	---	36.51	53.45	16.94	1000.0	9.0	GND	10.3
0.2044	44.53	---	63.43	18.90	1000.0	9.0	GND	10.3
0.2090	34.52	---	63.25	28.72	1000.0	9.0	GND	10.3
0.2226	33.82	---	62.72	28.90	1000.0	9.0	GND	10.2
0.2258	39.03	---	62.60	23.57	1000.0	9.0	GND	10.2
0.2260	---	27.99	52.60	24.60	1000.0	9.0	GND	10.2
0.2274	---	30.68	52.54	21.87	1000.0	9.0	GND	10.2
0.2276	41.62	---	62.54	20.92	1000.0	9.0	GND	10.2
0.2286	42.97	---	62.50	19.53	1000.0	9.0	GND	10.2
0.2286	---	32.45	52.50	20.05	1000.0	9.0	GND	10.2
0.2298	---	34.01	52.46	18.45	1000.0	9.0	GND	10.2
0.2300	44.36	---	62.45	18.09	1000.0	9.0	GND	10.2
0.2616	---	31.22	51.38	20.16	1000.0	9.0	GND	10.2
0.2632	40.79	---	61.33	20.54	1000.0	9.0	GND	10.2
0.2632	---	33.92	51.33	17.41	1000.0	9.0	GND	10.2
0.2644	---	35.19	51.29	16.10	1000.0	9.0	GND	10.2
0.2656	42.23	---	61.25	19.03	1000.0	9.0	GND	10.2
0.2656	---	35.76	51.25	15.49	1000.0	9.0	GND	10.2
0.2668	---	35.60	51.22	15.62	1000.0	9.0	GND	10.2
0.2668	41.86	---	61.22	19.35	1000.0	9.0	GND	10.2
0.2680	40.92	---	61.18	20.26	1000.0	9.0	GND	10.2
0.2888	---	25.75	50.56	24.81	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 12S

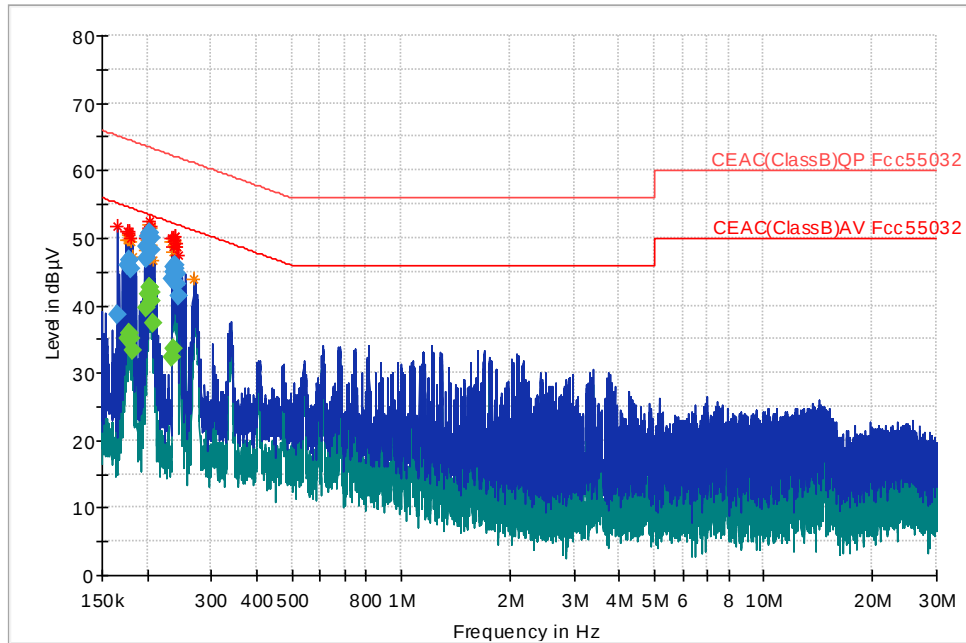


Plot 89: Conducted Emissions—Line 1

Table 29: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1970	---	32.95	53.74	20.79	1000.0	9.0	GND	10.3
0.1972	43.41	---	63.73	20.32	1000.0	9.0	GND	10.3
0.1982	---	36.09	53.69	17.60	1000.0	9.0	GND	10.3
0.1986	46.92	---	63.67	16.74	1000.0	9.0	GND	10.3
0.1996	---	39.04	53.63	14.59	1000.0	9.0	GND	10.3
0.1996	48.85	---	63.63	14.78	1000.0	9.0	GND	10.3
0.2000	49.80	---	63.61	13.81	1000.0	9.0	GND	10.3
0.2006	50.15	---	63.59	13.44	1000.0	9.0	GND	10.3
0.2006	---	40.53	53.59	13.06	1000.0	9.0	GND	10.3
0.2022	---	42.02	53.52	11.50	1000.0	9.0	GND	10.3
0.2022	51.29	---	63.52	12.23	1000.0	9.0	GND	10.3
0.2032	51.38	---	63.48	12.10	1000.0	9.0	GND	10.3
0.2032	---	42.11	53.48	11.37	1000.0	9.0	GND	10.3
0.2044	---	42.20	53.43	11.23	1000.0	9.0	GND	10.3
0.2044	50.69	---	63.43	12.74	1000.0	9.0	GND	10.3
0.2056	49.33	---	63.38	14.05	1000.0	9.0	GND	10.3
0.2058	---	40.56	53.37	12.81	1000.0	9.0	GND	10.3
0.2274	34.52	---	62.54	28.03	1000.0	9.0	GND	10.2
0.2662	---	30.80	51.24	20.43	1000.0	9.0	GND	10.2
0.2674	41.93	---	61.20	19.27	1000.0	9.0	GND	10.2
0.2674	---	33.06	51.20	18.14	1000.0	9.0	GND	10.2
0.2686	---	34.63	51.16	16.54	1000.0	9.0	GND	10.2
0.2686	42.65	---	61.16	18.51	1000.0	9.0	GND	10.2
0.2698	43.23	---	61.12	17.89	1000.0	9.0	GND	10.2
0.2700	---	35.45	51.12	15.67	1000.0	9.0	GND	10.2
0.2710	43.11	---	61.09	17.97	1000.0	9.0	GND	10.2
0.2712	---	35.52	51.08	15.56	1000.0	9.0	GND	10.2
0.2724	---	34.34	51.04	16.70	1000.0	9.0	GND	10.2
0.2724	42.37	---	61.04	18.67	1000.0	9.0	GND	10.2
0.2736	---	32.55	51.01	18.46	1000.0	9.0	GND	10.2
0.2930	---	22.64	50.44	27.80	1000.0	9.0	GND	10.2
0.2942	---	23.69	50.41	26.71	1000.0	9.0	GND	10.2
0.2954	---	24.75	50.37	25.62	1000.0	9.0	GND	10.2
0.3354	---	25.32	49.32	24.00	1000.0	9.0	GND	10.2
0.3378	---	26.97	49.26	22.29	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 12S

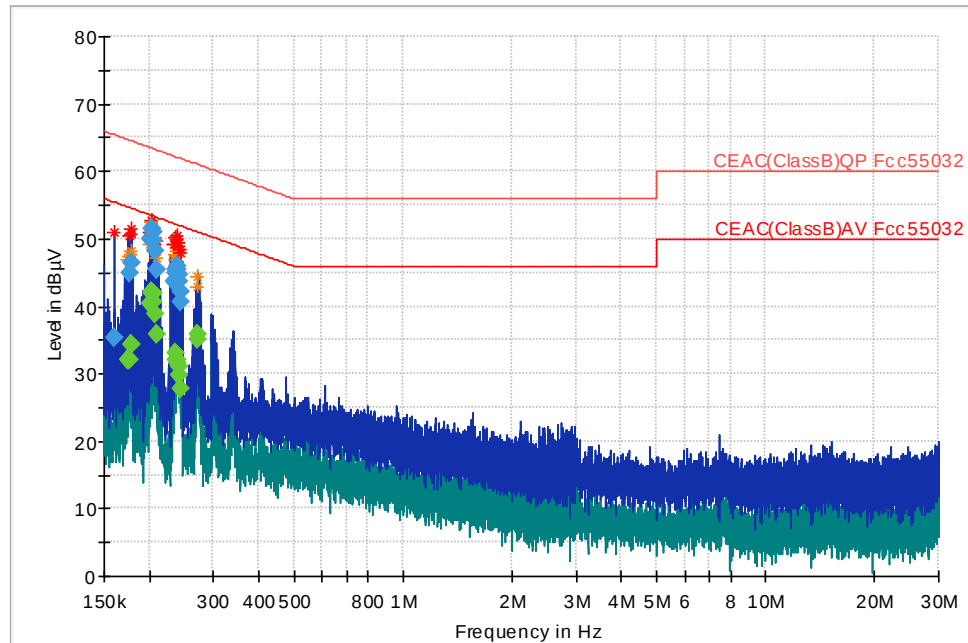


Plot 90: Conducted Emissions-Line 2

Table 30: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1652	38.61	---	65.20	26.59	1000.0	9.0	GND	10.3
0.1760	46.05	---	64.67	18.62	1000.0	9.0	GND	10.3
0.1764	---	35.14	54.65	19.51	1000.0	9.0	GND	10.3
0.1776	46.80	---	64.60	17.80	1000.0	9.0	GND	10.3
0.1778	---	35.77	54.59	18.81	1000.0	9.0	GND	10.3
0.1786	46.77	---	64.55	17.79	1000.0	9.0	GND	10.3
0.1788	---	35.75	54.54	18.79	1000.0	9.0	GND	10.3
0.1802	---	34.98	54.48	19.50	1000.0	9.0	GND	10.3
0.1804	45.54	---	64.47	18.93	1000.0	9.0	GND	10.3
0.1816	---	33.32	54.41	21.09	1000.0	9.0	GND	10.3
0.1986	47.02	---	63.67	16.65	1000.0	9.0	GND	10.3
0.1994	---	39.57	53.64	14.07	1000.0	9.0	GND	10.3
0.1996	48.73	---	63.63	14.90	1000.0	9.0	GND	10.3
0.2008	50.15	---	63.58	13.43	1000.0	9.0	GND	10.3
0.2008	---	41.66	53.58	11.91	1000.0	9.0	GND	10.3
0.2020	50.85	---	63.53	12.68	1000.0	9.0	GND	10.3
0.2020	---	42.59	53.53	10.94	1000.0	9.0	GND	10.3
0.2030	50.81	---	63.49	12.68	1000.0	9.0	GND	10.3
0.2032	---	42.71	53.48	10.77	1000.0	9.0	GND	10.3
0.2046	49.88	---	63.42	13.54	1000.0	9.0	GND	10.3
0.2046	---	41.88	53.42	11.55	1000.0	9.0	GND	10.3
0.2056	---	40.68	53.38	12.70	1000.0	9.0	GND	10.3
0.2060	48.15	---	63.37	15.21	1000.0	9.0	GND	10.3
0.2072	---	37.38	53.32	15.94	1000.0	9.0	GND	10.3
0.2340	43.90	---	62.31	18.41	1000.0	9.0	GND	10.2
0.2340	---	32.27	52.31	20.04	1000.0	9.0	GND	10.2
0.2352	44.93	---	62.26	17.33	1000.0	9.0	GND	10.2
0.2354	---	33.64	52.26	18.62	1000.0	9.0	GND	10.2
0.2366	45.78	---	62.22	16.43	1000.0	9.0	GND	10.2
0.2378	45.88	---	62.17	16.29	1000.0	9.0	GND	10.2
0.2390	45.45	---	62.13	16.68	1000.0	9.0	GND	10.2
0.2402	44.56	---	62.09	17.53	1000.0	9.0	GND	10.2
0.2414	43.21	---	62.05	18.84	1000.0	9.0	GND	10.2
0.2428	41.45	---	62.00	20.55	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 12S

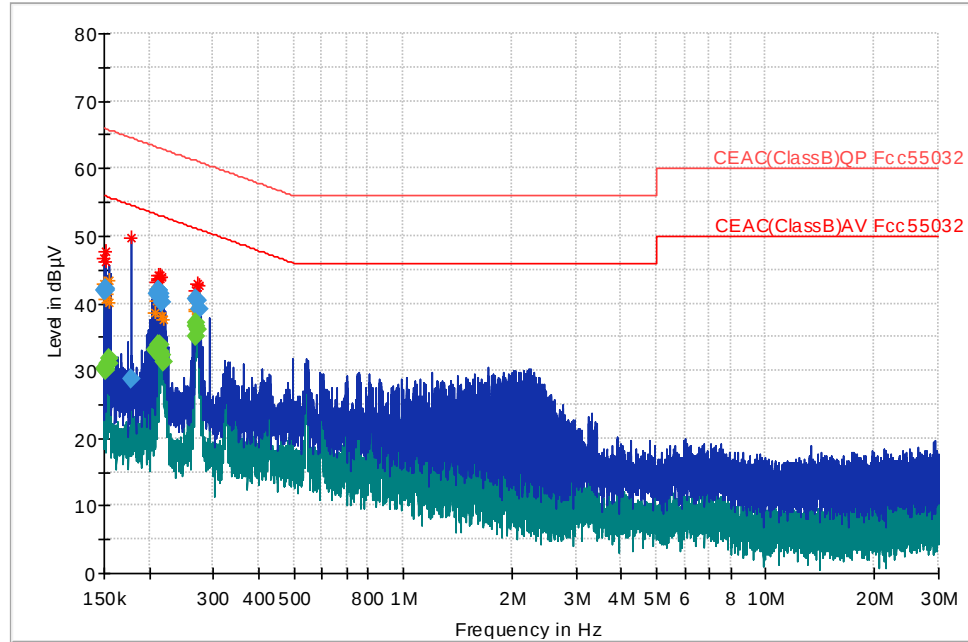


Plot 91: Conducted Emissions-Line 1

Table 31: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1598	35.25	---	65.47	30.23	1000.0	9.0	GND	10.3
0.1752	---	32.02	54.71	22.69	1000.0	9.0	GND	10.3
0.1756	44.90	---	64.69	19.80	1000.0	9.0	GND	10.3
0.1766	---	32.07	54.64	22.57	1000.0	9.0	GND	10.3
0.1780	---	34.33	54.58	20.25	1000.0	9.0	GND	10.3
0.1780	46.50	---	64.58	18.08	1000.0	9.0	GND	10.3
0.1790	46.54	---	64.53	17.99	1000.0	9.0	GND	10.3
0.1792	---	34.44	54.52	20.09	1000.0	9.0	GND	10.3
0.2010	---	40.32	53.57	13.25	1000.0	9.0	GND	10.3
0.2012	49.98	---	63.56	13.58	1000.0	9.0	GND	10.3
0.2024	51.51	---	63.51	12.00	1000.0	9.0	GND	10.3
0.2024	---	41.86	53.51	11.65	1000.0	9.0	GND	10.3
0.2036	---	42.21	53.46	11.25	1000.0	9.0	GND	10.3
0.2038	51.47	---	63.45	11.99	1000.0	9.0	GND	10.3
0.2048	50.89	---	63.41	12.53	1000.0	9.0	GND	10.3
0.2048	---	41.77	53.41	11.64	1000.0	9.0	GND	10.3
0.2060	49.84	---	63.37	13.53	1000.0	9.0	GND	10.3
0.2060	---	40.75	53.37	12.62	1000.0	9.0	GND	10.3
0.2072	48.10	---	63.32	15.22	1000.0	9.0	GND	10.3
0.2072	---	38.92	53.32	14.40	1000.0	9.0	GND	10.3
0.2086	45.55	---	63.26	17.71	1000.0	9.0	GND	10.3
0.2086	---	35.87	53.26	17.39	1000.0	9.0	GND	10.3
0.2344	43.65	---	62.29	18.64	1000.0	9.0	GND	10.2
0.2356	44.82	---	62.25	17.43	1000.0	9.0	GND	10.2
0.2356	---	31.94	52.25	20.31	1000.0	9.0	GND	10.2
0.2368	---	33.10	52.21	19.10	1000.0	9.0	GND	10.2
0.2370	45.53	---	62.20	16.67	1000.0	9.0	GND	10.2
0.2382	45.83	---	62.16	16.33	1000.0	9.0	GND	10.2
0.2382	---	32.06	52.16	20.10	1000.0	9.0	GND	10.2
0.2396	45.49	---	62.11	16.62	1000.0	9.0	GND	10.2
0.2396	---	31.63	52.11	20.48	1000.0	9.0	GND	10.2
0.2406	44.70	---	62.08	17.38	1000.0	9.0	GND	10.2
0.2406	---	31.05	52.08	21.03	1000.0	9.0	GND	10.2
0.2418	43.62	---	62.03	18.41	1000.0	9.0	GND	10.2
0.2418	---	29.84	52.03	22.20	1000.0	9.0	GND	10.2
0.2430	42.22	---	61.99	19.77	1000.0	9.0	GND	10.2
0.2434	---	27.81	51.98	24.17	1000.0	9.0	GND	10.2
0.2448	40.53	---	61.93	21.40	1000.0	9.0	GND	10.2
0.2714	---	35.92	51.08	15.15	1000.0	9.0	GND	10.2
0.2726	---	35.19	51.04	15.85	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 12S

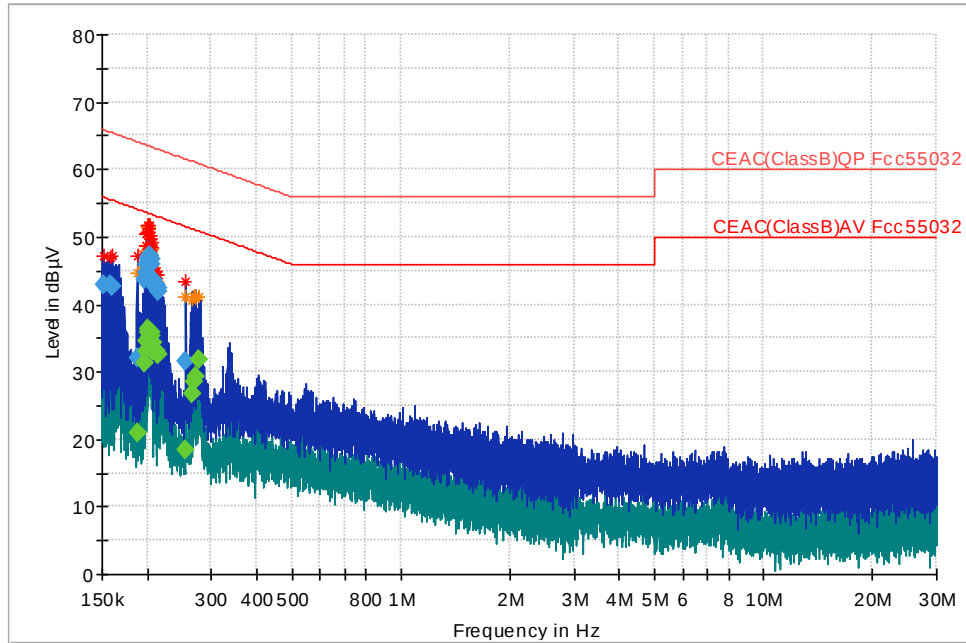


Plot 92: Conducted Emissions-Line 2

Table 32: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1500	---	30.27	56.00	25.73	1000.0	9.0	GND	10.4
0.1500	41.80	---	66.00	24.20	1000.0	9.0	GND	10.4
0.1510	---	30.06	55.95	25.88	1000.0	9.0	GND	10.4
0.1510	41.89	---	65.95	24.06	1000.0	9.0	GND	10.4
0.1522	---	30.37	55.88	25.51	1000.0	9.0	GND	10.4
0.1522	42.09	---	65.88	23.78	1000.0	9.0	GND	10.4
0.1532	---	30.94	55.83	24.88	1000.0	9.0	GND	10.4
0.1544	---	31.11	55.76	24.65	1000.0	9.0	GND	10.4
0.1554	---	31.77	55.71	23.93	1000.0	9.0	GND	10.3
0.1788	28.67	---	64.54	35.87	1000.0	9.0	GND	10.3
0.2078	---	32.98	53.29	20.31	1000.0	9.0	GND	10.3
0.2088	---	32.86	53.25	20.39	1000.0	9.0	GND	10.3
0.2098	41.47	---	63.21	21.75	1000.0	9.0	GND	10.3
0.2098	---	33.13	53.21	20.08	1000.0	9.0	GND	10.3
0.2110	41.85	---	63.17	21.32	1000.0	9.0	GND	10.2
0.2110	---	33.53	53.17	19.64	1000.0	9.0	GND	10.2
0.2118	41.91	---	63.13	21.22	1000.0	9.0	GND	10.2
0.2120	---	33.81	53.13	19.32	1000.0	9.0	GND	10.2
0.2130	---	33.79	53.09	19.30	1000.0	9.0	GND	10.2
0.2130	41.78	---	63.09	21.31	1000.0	9.0	GND	10.2
0.2140	41.50	---	63.05	21.55	1000.0	9.0	GND	10.2
0.2140	---	33.88	53.05	19.17	1000.0	9.0	GND	10.2
0.2150	40.85	---	63.01	22.16	1000.0	9.0	GND	10.2
0.2150	---	32.87	53.01	20.14	1000.0	9.0	GND	10.2
0.2160	40.12	---	62.97	22.85	1000.0	9.0	GND	10.2
0.2162	---	32.35	52.96	20.61	1000.0	9.0	GND	10.2
0.2184	---	31.32	52.88	21.56	1000.0	9.0	GND	10.2
0.2674	---	35.17	51.20	16.03	1000.0	9.0	GND	10.2
0.2686	---	36.52	51.16	14.64	1000.0	9.0	GND	10.2
0.2696	---	37.09	51.13	14.04	1000.0	9.0	GND	10.2
0.2696	40.68	---	61.13	20.45	1000.0	9.0	GND	10.2
0.2722	---	36.00	51.05	15.05	1000.0	9.0	GND	10.2
0.2722	40.33	---	61.05	20.73	1000.0	9.0	GND	10.2
0.2744	39.21	---	60.98	21.78	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 16S

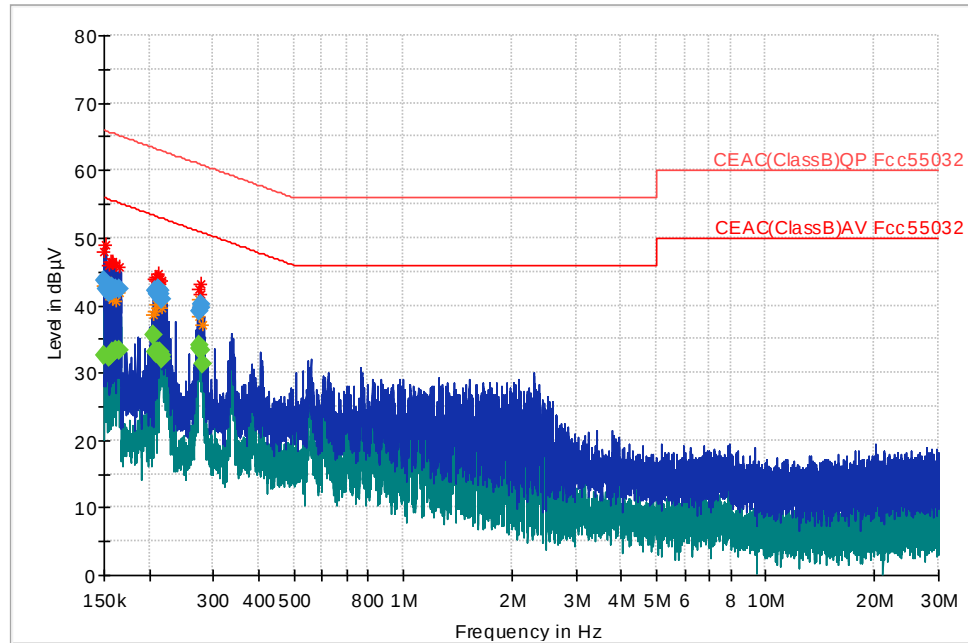


Plot 93: Conducted Emissions-Line 1

Table 33: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1520	42.80	---	65.89	23.09	1000.0	9.0	GND	10.4
0.1584	42.83	---	65.55	22.71	1000.0	9.0	GND	10.3
0.1604	42.62	---	65.44	22.83	1000.0	9.0	GND	10.3
0.1872	---	21.01	54.16	33.15	1000.0	9.0	GND	10.3
0.1872	32.07	---	64.16	32.09	1000.0	9.0	GND	10.3
0.1970	---	31.38	53.74	22.36	1000.0	9.0	GND	10.3
0.1970	43.73	---	63.74	20.01	1000.0	9.0	GND	10.3
0.1978	44.70	---	63.70	19.00	1000.0	9.0	GND	10.3
0.1980	---	33.04	53.69	20.65	1000.0	9.0	GND	10.3
0.1990	---	34.62	53.65	19.03	1000.0	9.0	GND	10.3
0.1992	46.03	---	63.64	17.62	1000.0	9.0	GND	10.3
0.2002	46.70	---	63.60	16.91	1000.0	9.0	GND	10.3
0.2002	---	35.80	53.60	17.81	1000.0	9.0	GND	10.3
0.2012	---	36.37	53.56	17.19	1000.0	9.0	GND	10.3
0.2012	47.04	---	63.56	16.52	1000.0	9.0	GND	10.3
0.2022	47.31	---	63.52	16.21	1000.0	9.0	GND	10.3
0.2022	---	35.87	53.52	17.65	1000.0	9.0	GND	10.3
0.2032	---	35.47	53.48	18.01	1000.0	9.0	GND	10.3
0.2032	47.17	---	63.48	16.31	1000.0	9.0	GND	10.3
0.2038	46.99	---	63.45	16.46	1000.0	9.0	GND	10.3
0.2042	---	35.89	53.44	17.55	1000.0	9.0	GND	10.3
0.2042	46.74	---	63.44	16.70	1000.0	9.0	GND	10.3
0.2052	45.83	---	63.40	17.57	1000.0	9.0	GND	10.3
0.2054	---	35.23	53.39	18.16	1000.0	9.0	GND	10.3
0.2064	---	34.23	53.35	19.12	1000.0	9.0	GND	10.3
0.2070	43.67	---	63.33	19.65	1000.0	9.0	GND	10.3
0.2074	---	33.14	53.31	20.17	1000.0	9.0	GND	10.3
0.2076	42.84	---	63.30	20.46	1000.0	9.0	GND	10.3
0.2128	---	33.06	53.10	20.03	1000.0	9.0	GND	10.2
0.2130	42.88	---	63.09	20.21	1000.0	9.0	GND	10.2
0.2140	---	32.55	53.05	20.50	1000.0	9.0	GND	10.2
0.2140	42.49	---	63.05	20.56	1000.0	9.0	GND	10.2
0.2150	---	32.62	53.01	20.39	1000.0	9.0	GND	10.2
0.2150	41.97	---	63.01	21.04	1000.0	9.0	GND	10.2
0.2556	---	18.34	51.57	33.24	1000.0	9.0	GND	10.2
0.2556	31.65	---	61.57	29.93	1000.0	9.0	GND	10.2
0.2662	---	26.86	51.24	24.37	1000.0	9.0	GND	10.2
0.2686	---	28.41	51.16	22.75	1000.0	9.0	GND	10.2
0.2706	---	29.23	51.10	21.87	1000.0	9.0	GND	10.2
0.2770	---	31.81	50.91	19.09	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 16S

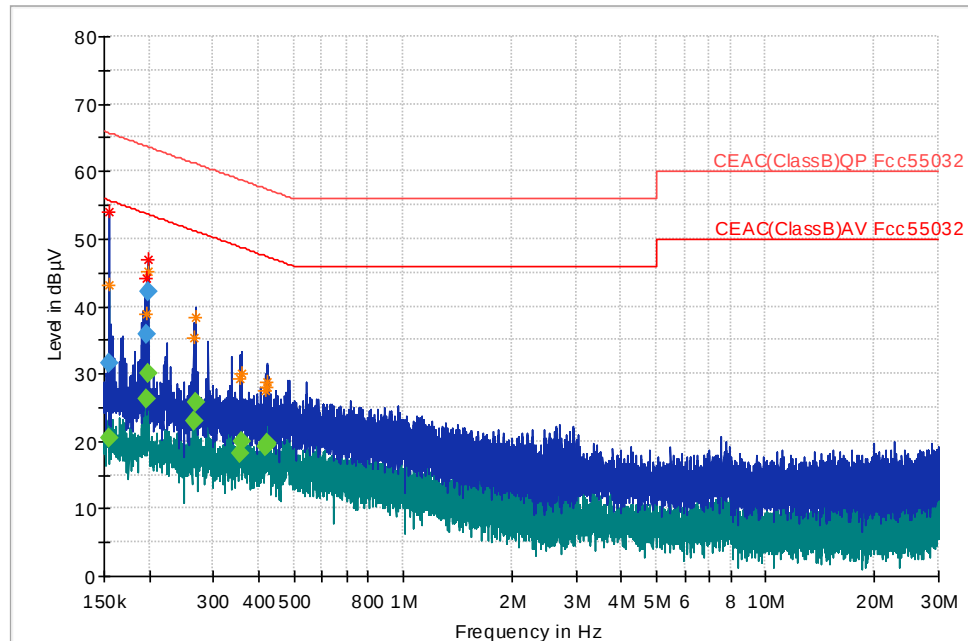


Plot 94: Conducted Emissions-Line 2

Table 34: Quasi-Peak and Average Data of Conducted Emissions– Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1504	---	32.55	55.98	23.43	1000.0	9.0	GND	10.4
0.1504	43.63	---	65.98	22.35	1000.0	9.0	GND	10.4
0.1524	42.40	---	65.87	23.47	1000.0	9.0	GND	10.4
0.1548	---	32.21	55.74	23.53	1000.0	9.0	GND	10.4
0.1548	41.88	---	65.74	23.86	1000.0	9.0	GND	10.4
0.1568	42.33	---	65.63	23.30	1000.0	9.0	GND	10.3
0.1568	---	32.50	55.63	23.13	1000.0	9.0	GND	10.3
0.1584	42.10	---	65.55	23.45	1000.0	9.0	GND	10.3
0.1590	42.54	---	65.52	22.98	1000.0	9.0	GND	10.3
0.1590	---	33.18	55.52	22.34	1000.0	9.0	GND	10.3
0.1610	42.30	---	65.41	23.12	1000.0	9.0	GND	10.3
0.1626	---	33.31	55.33	22.02	1000.0	9.0	GND	10.3
0.1648	---	33.24	55.22	21.97	1000.0	9.0	GND	10.3
0.1648	42.49	---	65.22	22.72	1000.0	9.0	GND	10.3
0.2060	---	35.48	53.37	17.88	1000.0	9.0	GND	10.3
0.2082	42.02	---	63.28	21.26	1000.0	9.0	GND	10.3
0.2082	---	33.11	53.28	20.16	1000.0	9.0	GND	10.3
0.2092	41.73	---	63.24	21.50	1000.0	9.0	GND	10.3
0.2092	---	32.69	53.24	20.55	1000.0	9.0	GND	10.3
0.2104	42.18	---	63.19	21.01	1000.0	9.0	GND	10.2
0.2104	---	32.96	53.19	20.23	1000.0	9.0	GND	10.2
0.2114	42.29	---	63.15	20.86	1000.0	9.0	GND	10.2
0.2114	---	32.92	53.15	20.23	1000.0	9.0	GND	10.2
0.2124	---	33.05	53.11	20.06	1000.0	9.0	GND	10.2
0.2124	42.33	---	63.11	20.78	1000.0	9.0	GND	10.2
0.2134	---	33.17	53.07	19.90	1000.0	9.0	GND	10.2
0.2136	42.15	---	63.06	20.91	1000.0	9.0	GND	10.2
0.2146	---	32.68	53.03	20.34	1000.0	9.0	GND	10.2
0.2146	41.61	---	63.03	21.42	1000.0	9.0	GND	10.2
0.2156	---	32.55	52.99	20.44	1000.0	9.0	GND	10.2
0.2156	40.84	---	62.99	22.15	1000.0	9.0	GND	10.2
0.2166	---	31.98	52.95	20.97	1000.0	9.0	GND	10.2
0.2738	---	33.52	51.00	17.49	1000.0	9.0	GND	10.2
0.2738	39.13	---	61.00	21.87	1000.0	9.0	GND	10.2
0.2758	---	34.18	50.94	16.76	1000.0	9.0	GND	10.2
0.2760	40.25	---	60.94	20.69	1000.0	9.0	GND	10.2
0.2778	39.59	---	60.88	21.30	1000.0	9.0	GND	10.2
0.2780	---	33.25	50.88	17.62	1000.0	9.0	GND	10.2
0.2796	---	31.34	50.83	19.49	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 16S

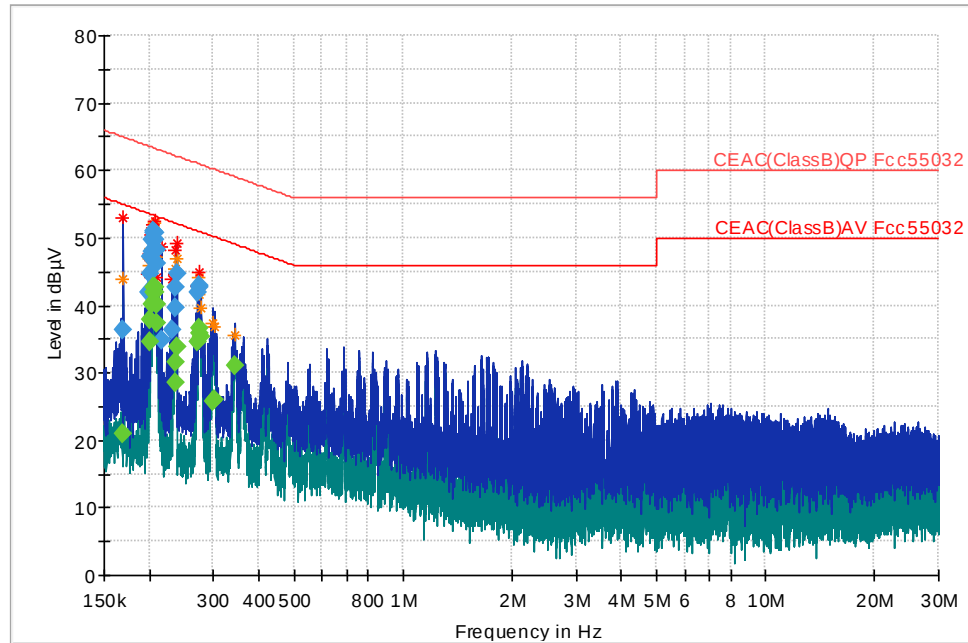


Plot 95: Conducted Emissions–Line 1

Table 35: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1548	---	20.33	55.74	35.41	1000.0	9.0	GND	10.4
0.1548	31.46	---	65.74	34.28	1000.0	9.0	GND	10.4
0.1964	35.92	---	63.76	27.84	1000.0	9.0	GND	10.3
0.1974	---	26.34	53.72	27.38	1000.0	9.0	GND	10.3
0.1986	---	30.09	53.67	23.58	1000.0	9.0	GND	10.3
0.1990	42.13	---	63.65	21.52	1000.0	9.0	GND	10.3
0.2666	---	23.00	51.22	28.22	1000.0	9.0	GND	10.2
0.2676	---	25.65	51.19	25.54	1000.0	9.0	GND	10.2
0.3560	---	18.25	48.82	30.57	1000.0	9.0	GND	10.2
0.3588	---	19.97	48.76	28.78	1000.0	9.0	GND	10.2
0.4202	---	19.22	47.44	28.22	1000.0	9.0	GND	10.2
0.4214	---	19.34	47.42	28.08	1000.0	9.0	GND	10.2
0.4226	---	19.78	47.40	27.61	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 16S

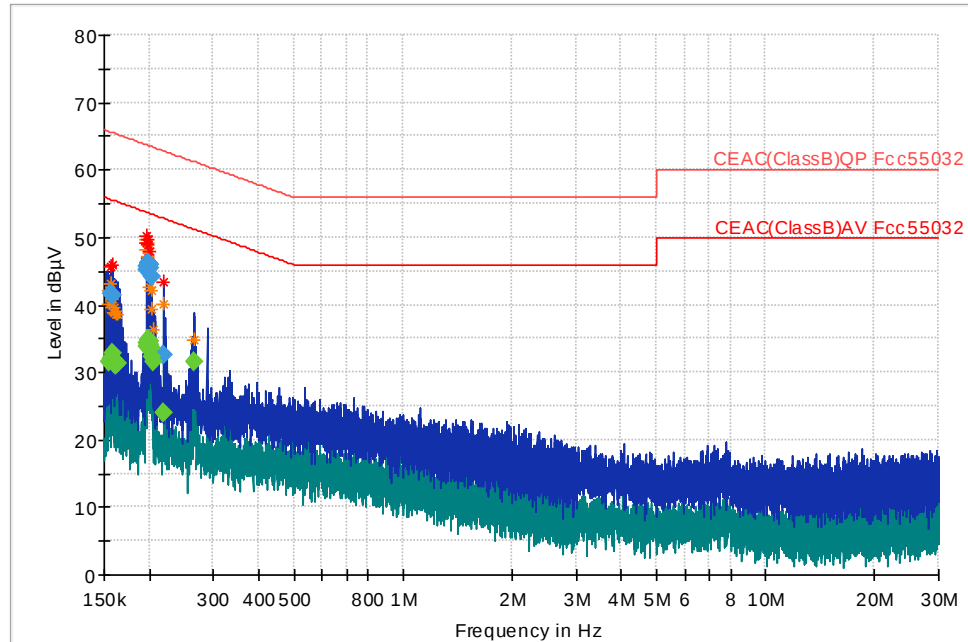


Plot 96: Conducted Emissions-Line 2

Table 36: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1698	---	20.96	54.97	34.01	1000.0	9.0	GND	10.3
0.1698	36.42	---	64.97	28.55	1000.0	9.0	GND	10.3
0.1996	41.92	---	63.63	21.71	1000.0	9.0	GND	10.3
0.2006	---	34.70	53.59	18.89	1000.0	9.0	GND	10.3
0.2006	44.67	---	63.59	18.91	1000.0	9.0	GND	10.3
0.2018	47.11	---	63.54	16.43	1000.0	9.0	GND	10.3
0.2018	---	37.74	53.54	15.79	1000.0	9.0	GND	10.3
0.2022	48.00	---	63.52	15.52	1000.0	9.0	GND	10.3
0.2030	---	40.16	53.49	13.33	1000.0	9.0	GND	10.3
0.2034	49.63	---	63.47	13.84	1000.0	9.0	GND	10.3
0.2044	50.73	---	63.43	12.70	1000.0	9.0	GND	10.3
0.2044	---	41.97	53.43	11.46	1000.0	9.0	GND	10.3
0.2054	---	42.68	53.39	10.71	1000.0	9.0	GND	10.3
0.2054	51.00	---	63.39	12.39	1000.0	9.0	GND	10.3
0.2068	---	42.72	53.33	10.61	1000.0	9.0	GND	10.3
0.2068	50.78	---	63.33	12.55	1000.0	9.0	GND	10.3
0.2080	---	41.82	53.29	11.46	1000.0	9.0	GND	10.3
0.2084	49.61	---	63.27	13.66	1000.0	9.0	GND	10.3
0.2092	48.20	---	63.24	15.04	1000.0	9.0	GND	10.3
0.2092	---	40.13	53.24	13.11	1000.0	9.0	GND	10.3
0.2104	46.18	---	63.19	17.01	1000.0	9.0	GND	10.2
0.2106	---	37.24	53.18	15.94	1000.0	9.0	GND	10.2
0.2158	34.85	---	62.98	28.13	1000.0	9.0	GND	10.2
0.2316	36.32	---	62.39	26.07	1000.0	9.0	GND	10.2
0.2348	39.74	---	62.28	22.53	1000.0	9.0	GND	10.2
0.2350	---	28.42	52.27	23.85	1000.0	9.0	GND	10.2
0.2364	42.68	---	62.22	19.54	1000.0	9.0	GND	10.2
0.2364	---	31.46	52.22	20.76	1000.0	9.0	GND	10.2
0.2376	---	33.71	52.18	18.47	1000.0	9.0	GND	10.2
0.2378	44.57	---	62.17	17.60	1000.0	9.0	GND	10.2
0.2722	---	34.55	51.05	16.50	1000.0	9.0	GND	10.2
0.2722	41.89	---	61.05	19.16	1000.0	9.0	GND	10.2
0.2734	---	35.93	51.01	15.08	1000.0	9.0	GND	10.2
0.2736	42.73	---	61.01	18.28	1000.0	9.0	GND	10.2
0.2748	---	36.60	50.97	14.37	1000.0	9.0	GND	10.2
0.2748	42.87	---	60.97	18.10	1000.0	9.0	GND	10.2
0.2772	---	35.39	50.90	15.51	1000.0	9.0	GND	10.2
0.3002	---	25.80	50.24	24.44	1000.0	9.0	GND	10.2
0.3028	---	25.91	50.17	24.26	1000.0	9.0	GND	10.2
0.3438	---	31.02	49.11	18.09	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 45S

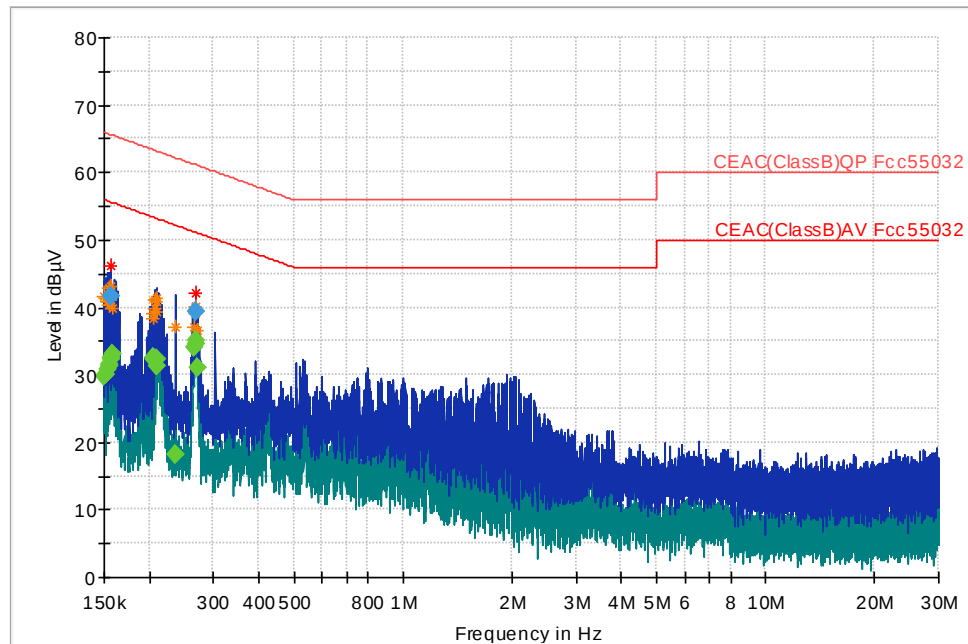


Plot 97: Conducted Emissions-Line 1

Table 37: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1546	---	31.52	55.75	24.23	1000.0	9.0	GND	10.4
0.1556	---	31.63	55.70	24.06	1000.0	9.0	GND	10.3
0.1566	---	31.94	55.64	23.70	1000.0	9.0	GND	10.3
0.1568	41.73	---	65.63	23.91	1000.0	9.0	GND	10.3
0.1576	---	32.73	55.59	22.86	1000.0	9.0	GND	10.3
0.1586	41.51	---	65.54	24.02	1000.0	9.0	GND	10.3
0.1588	---	31.89	55.53	23.63	1000.0	9.0	GND	10.3
0.1602	---	31.85	55.45	23.61	1000.0	9.0	GND	10.3
0.1608	---	31.21	55.42	24.21	1000.0	9.0	GND	10.3
0.1624	---	31.01	55.34	24.33	1000.0	9.0	GND	10.3
0.1630	---	31.22	55.31	24.09	1000.0	9.0	GND	10.3
0.1960	45.10	---	63.78	18.68	1000.0	9.0	GND	10.3
0.1962	---	33.90	53.77	19.87	1000.0	9.0	GND	10.3
0.1972	45.80	---	63.73	17.93	1000.0	9.0	GND	10.3
0.1972	---	34.39	53.73	19.33	1000.0	9.0	GND	10.3
0.1982	---	34.91	53.69	18.78	1000.0	9.0	GND	10.3
0.1982	46.08	---	63.69	17.61	1000.0	9.0	GND	10.3
0.1988	46.22	---	63.66	17.44	1000.0	9.0	GND	10.3
0.1992	46.19	---	63.64	17.45	1000.0	9.0	GND	10.3
0.1992	---	34.87	53.64	18.77	1000.0	9.0	GND	10.3
0.2002	45.98	---	63.60	17.62	1000.0	9.0	GND	10.3
0.2004	---	34.45	53.59	19.14	1000.0	9.0	GND	10.3
0.2014	45.31	---	63.55	18.24	1000.0	9.0	GND	10.3
0.2014	---	34.10	53.55	19.45	1000.0	9.0	GND	10.3
0.2024	44.27	---	63.51	19.24	1000.0	9.0	GND	10.3
0.2024	---	33.45	53.51	20.07	1000.0	9.0	GND	10.3
0.2036	---	32.31	53.46	21.16	1000.0	9.0	GND	10.3
0.2046	---	31.67	53.42	21.75	1000.0	9.0	GND	10.3
0.2198	32.58	---	62.83	30.24	1000.0	9.0	GND	10.2
0.2198	---	23.86	52.83	28.96	1000.0	9.0	GND	10.2
0.2666	---	31.59	51.22	19.64	1000.0	9.0	GND	10.2

- Test Voltage Used: 120VAC/60Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 45S

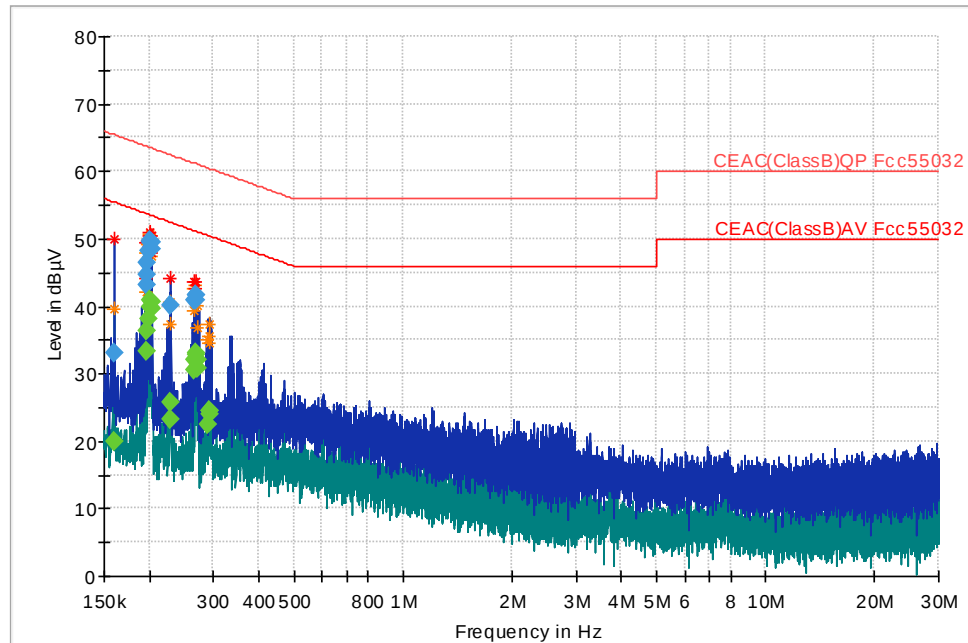


Plot 98: Conducted Emissions–Line 2

Table 38: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1500	---	29.83	56.00	26.17	1000.0	9.0	GND	10.4
0.1510	---	30.01	55.95	25.93	1000.0	9.0	GND	10.4
0.1530	---	30.77	55.84	25.07	1000.0	9.0	GND	10.4
0.1542	---	31.27	55.77	24.50	1000.0	9.0	GND	10.4
0.1552	---	31.62	55.72	24.10	1000.0	9.0	GND	10.3
0.1562	---	32.27	55.66	23.39	1000.0	9.0	GND	10.3
0.1572	41.57	---	65.61	24.04	1000.0	9.0	GND	10.3
0.1572	---	32.66	55.61	22.95	1000.0	9.0	GND	10.3
0.1588	---	33.08	55.53	22.44	1000.0	9.0	GND	10.3
0.2044	---	32.49	53.43	20.94	1000.0	9.0	GND	10.3
0.2054	---	32.27	53.39	21.12	1000.0	9.0	GND	10.3
0.2064	---	32.21	53.35	21.14	1000.0	9.0	GND	10.3
0.2076	---	32.33	53.30	20.97	1000.0	9.0	GND	10.3
0.2086	---	32.34	53.26	20.92	1000.0	9.0	GND	10.3
0.2096	---	32.26	53.22	20.96	1000.0	9.0	GND	10.3
0.2106	---	31.34	53.18	21.84	1000.0	9.0	GND	10.2
0.2354	---	18.23	52.26	34.02	1000.0	9.0	GND	10.2
0.2656	---	33.99	51.25	17.26	1000.0	9.0	GND	10.2
0.2678	39.26	---	61.19	21.93	1000.0	9.0	GND	10.2
0.2678	---	35.10	51.19	16.09	1000.0	9.0	GND	10.2
0.2694	---	34.56	51.14	16.58	1000.0	9.0	GND	10.2
0.2718	---	31.04	51.06	20.02	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 1**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 45S

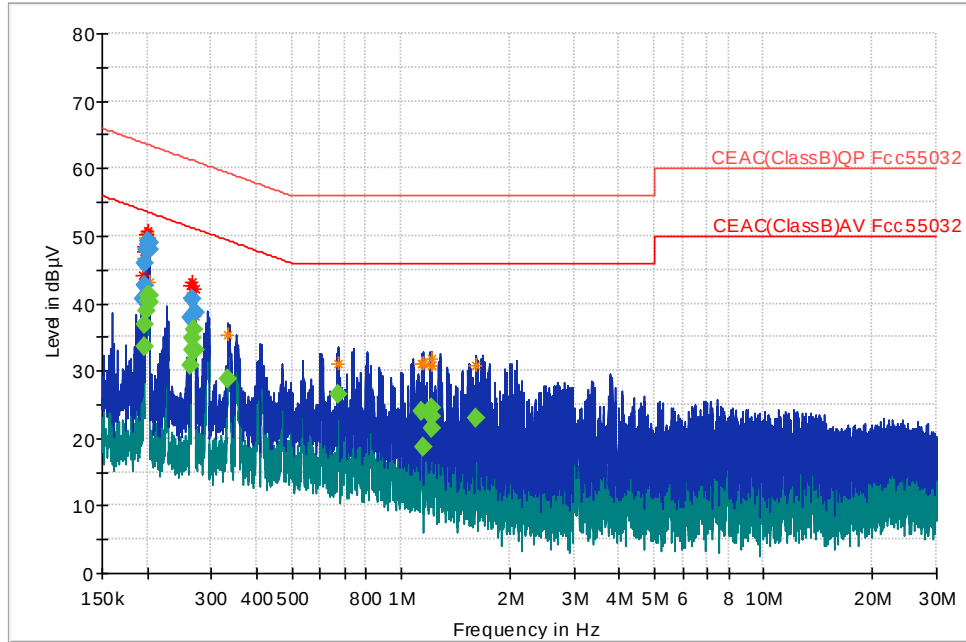


Plot 99: Conducted Emissions–Line 1

Table 39: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 1

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1600	32.94	---	65.46	32.52	1000.0	9.0	GND	10.3
0.1600	---	19.82	55.46	35.65	1000.0	9.0	GND	10.3
0.1960	43.27	---	63.78	20.51	1000.0	9.0	GND	10.3
0.1960	---	33.35	53.78	20.43	1000.0	9.0	GND	10.3
0.1964	44.64	---	63.76	19.12	1000.0	9.0	GND	10.3
0.1972	---	36.29	53.73	17.44	1000.0	9.0	GND	10.3
0.1974	46.53	---	63.72	17.18	1000.0	9.0	GND	10.3
0.1986	---	38.23	53.67	15.44	1000.0	9.0	GND	10.3
0.1986	48.17	---	63.67	15.50	1000.0	9.0	GND	10.3
0.1998	---	39.79	53.62	13.83	1000.0	9.0	GND	10.3
0.2000	49.42	---	63.61	14.19	1000.0	9.0	GND	10.3
0.2010	49.64	---	63.57	13.93	1000.0	9.0	GND	10.3
0.2010	---	40.79	53.57	12.78	1000.0	9.0	GND	10.3
0.2020	49.40	---	63.53	14.12	1000.0	9.0	GND	10.3
0.2022	---	40.57	53.52	12.95	1000.0	9.0	GND	10.3
0.2034	---	39.66	53.47	13.81	1000.0	9.0	GND	10.3
0.2034	48.35	---	63.47	15.12	1000.0	9.0	GND	10.3
0.2278	---	23.16	52.53	29.37	1000.0	9.0	GND	10.2
0.2292	---	25.70	52.48	26.78	1000.0	9.0	GND	10.2
0.2294	40.04	---	62.47	22.44	1000.0	9.0	GND	10.2
0.2652	---	30.66	51.27	20.60	1000.0	9.0	GND	10.2
0.2662	40.92	---	61.24	20.31	1000.0	9.0	GND	10.2
0.2662	---	32.00	51.24	19.24	1000.0	9.0	GND	10.2
0.2676	---	32.90	51.19	18.29	1000.0	9.0	GND	10.2
0.2676	41.66	---	61.19	19.54	1000.0	9.0	GND	10.2
0.2688	41.62	---	61.16	19.54	1000.0	9.0	GND	10.2
0.2688	---	32.96	51.16	18.19	1000.0	9.0	GND	10.2
0.2700	40.93	---	61.12	20.19	1000.0	9.0	GND	10.2
0.2702	---	32.08	51.11	19.03	1000.0	9.0	GND	10.2
0.2714	---	30.78	51.08	20.29	1000.0	9.0	GND	10.2
0.2908	---	22.49	50.50	28.01	1000.0	9.0	GND	10.2
0.2920	---	23.91	50.47	26.55	1000.0	9.0	GND	10.2
0.2934	---	24.49	50.43	25.94	1000.0	9.0	GND	10.2
0.2944	---	24.49	50.40	25.91	1000.0	9.0	GND	10.2

- Test Voltage Used: 240VAC/50Hz **Line 2**
- Frequency Range: 150 kHz to 30 MHz
- Meter Form: 45S



Plot 100: Conducted Emissions-Line 2

Table 40: Quasi-Peak and Average Data of Conducted Emissions – Class B – Line 2

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PE	Corr. (dB)
0.1952	40.53	---	63.81	23.28	1000.0	9.0	GND	10.3
0.1960	42.76	---	63.78	21.02	1000.0	9.0	GND	10.3
0.1960	---	33.45	53.78	20.32	1000.0	9.0	GND	10.3
0.1974	45.85	---	63.72	17.87	1000.0	9.0	GND	10.3
0.1974	---	36.73	53.72	16.99	1000.0	9.0	GND	10.3
0.1986	---	38.90	53.67	14.77	1000.0	9.0	GND	10.3
0.1988	47.88	---	63.66	15.78	1000.0	9.0	GND	10.3
0.1998	48.74	---	63.62	14.88	1000.0	9.0	GND	10.3
0.2000	---	40.46	53.61	13.15	1000.0	9.0	GND	10.3
0.2010	49.20	---	63.57	14.36	1000.0	9.0	GND	10.3
0.2010	---	41.07	53.57	12.50	1000.0	9.0	GND	10.3
0.2022	48.94	---	63.52	14.58	1000.0	9.0	GND	10.3
0.2024	---	41.09	53.51	12.42	1000.0	9.0	GND	10.3
0.2036	47.83	---	63.46	15.63	1000.0	9.0	GND	10.3
0.2036	---	40.20	53.46	13.26	1000.0	9.0	GND	10.3
0.2642	---	30.85	51.30	20.45	1000.0	9.0	GND	10.2
0.2642	37.73	---	61.30	23.57	1000.0	9.0	GND	10.2
0.2652	---	33.03	51.27	18.24	1000.0	9.0	GND	10.2
0.2666	40.60	---	61.22	20.63	1000.0	9.0	GND	10.2
0.2666	---	34.92	51.22	16.30	1000.0	9.0	GND	10.2
0.2690	---	36.02	51.15	15.13	1000.0	9.0	GND	10.2
0.2718	38.69	---	61.06	22.37	1000.0	9.0	GND	10.2
0.2718	---	33.05	51.06	18.01	1000.0	9.0	GND	10.2
0.3334	---	28.82	49.37	20.55	1000.0	9.0	GND	10.2
0.6734	---	26.51	46.00	19.49	1000.0	9.0	GND	10.2
1.1402	---	23.93	46.00	22.07	1000.0	9.0	GND	10.2
1.1496	---	18.80	46.00	27.20	1000.0	9.0	GND	10.2
1.2110	---	24.59	46.00	21.41	1000.0	9.0	GND	10.2
1.2126	---	23.25	46.00	22.75	1000.0	9.0	GND	10.2
1.2152	---	21.39	46.00	24.61	1000.0	9.0	GND	10.2
1.6158	---	22.85	46.00	23.16	1000.0	9.0	GND	10.2

Appendix A: TEST SETUP PHOTOS

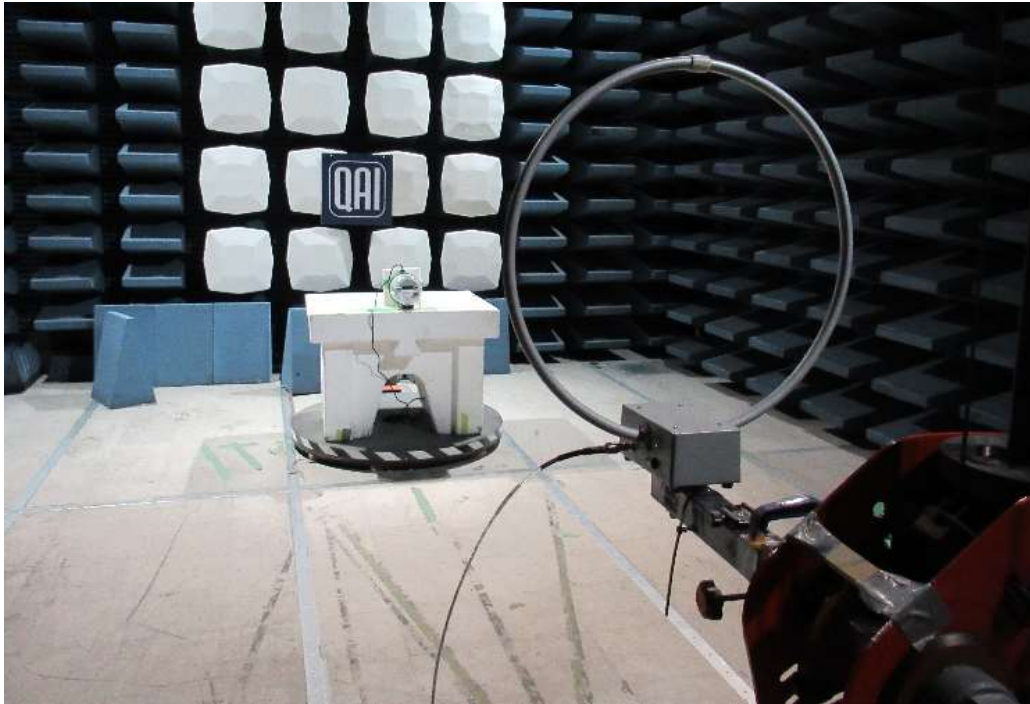


Figure 1: Radiated Emissions performed at the SAC Test Setup, 10kHz to 30MHz



Figure 2: Radiated Emissions performed at the SAC Test Setup, 30MHz to 1GHz



Figure 3: Radiated Emissions performed at the SAC Test Setup, above 1 GHz



Figure 4: Conducted Emissions performed at the SAC Test Setup

Appendix B: ABBREVIATIONS

Abbreviation	Definition
AC	Alternating Current
AM	Amplitude Modulation
CE	European Conformity
CISPR	Comité International Spécial des Perturbations Radioélectriques (International Special Committee on Radio Interference)
DC	Direct Current
EFT	Electrical Fast Transient
EMC	Electro Magnetic Compatibility
EMI	Electro Magnetic Interference
ESD	Electrostatic Discharge
EUT	Equipment Under Test
FCC	Federal Communications Commission
IC	Industry Canada
ICES	Interference Causing Equipment Standard
IEC	International Electrotechnical Commission
LISN	Line Impedance Stabilizing Network
OATS	Open Area Test Site
RF	Radio Frequency
RMS	Root-Mean-Square
SAC	Semi-Anechoic Chamber

END OF REPORT