

October 9, 2021

OnAsset Intelligence, Inc.
8407 Sterling St.
Irving, TX 75063

Dear Dennis Key,

Enclosed is the Wireless test report for compliance testing of the OnAsset Intelligence, Inc., SENTRY 600 FLIGHTSAFE, as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 15 Subpart C for Intentional Radiators.

Thank you for using the services of Eurofins Electrical and Electronic Testing NA, Inc. Please contact me if you have any questions regarding these results or if Eurofins E&E can be of further service to you.

Sincerely,



Joel Huna
Documentation Department
Eurofins Electrical and Electronic Testing NA, Inc

Reference: (\OnAsset Intelligence, Inc.\WIRS111980-FCC247-407 (WiFi) Rev 1)



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Eurofins Electrical and Electronic Testing NA, Inc. is part of the Eurofins Electrical & Electronics (E&E) global compliance network.

Electromagnetic Compatibility Criteria Test Report

for the

**OnAsset Intelligence, Inc.
SENTRY 600 FLIGHTSAFE**

Tested under
the FCC Certification Rules
contained in
15.247 Subpart C for Intentional Radiators

Report: WIR111980-FCC247-407 (WiFi) Rev 1

Prepared For:

**OnAsset Intelligence, Inc.
8407 Sterling St,
Irvine, TX 75063**

Prepared By:
Eurofins Electrical and Electronic Testing NA, Inc.
3162 Belick St.
Santa Clara, CA 95054

Electromagnetic Compatibility Criteria Test Report

for the

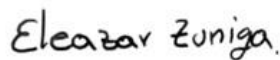
**OnAsset Intelligence, Inc.
SENTRY 600 FLIGHTSAFE**

Tested under
the FCC Certification Rules
contained in
15.247 Subpart C for Intentional Radiators



Arsalan Hasan
Project Engineer, Electromagnetic Compatibility Lab

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Part 15.247 and Part 407 under normal use and maintenance.



Eleazar Zuniga,
Director, Wireless Laboratory

Report Status Sheet

Revision	Report Date	Reason for Revision
∅	June 10, 2021	Initial Issue
1	October 9, 2021	TCB Review Updates

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List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
<i>d</i>	Measurement Distance
dB	Decibels
dBμA	Decibels above one microamp
dBμV	Decibels above one microvolt
dBμA/m	Decibels above one microamp per meter
dBμV/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
<i>f</i>	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kPa	kilopascal
kV	kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μH	microhenry
μ	microfarad
μs	microseconds
NEBS	Network Equipment-Building System
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane

I. Executive Summary

A. Purpose of Test

An EMC evaluation was performed to determine compliance of the OnAsset Intelligence, Inc., SENTRY 600 FLIGHTSAFE, with the requirements of Part 15, §15.247 and Part 15, §15.407. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the SENTRY 600 FLIGHTSAFE. OnAsset Intelligence, Inc. should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the SENTRY 600 FLIGHTSAFE, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, §15.247 and Part 15, §15.407, in accordance with OnAsset Intelligence, Inc., purchase order number 6296. All tests were conducted using measurement procedure ANSI C63.10-2013.

References	Description	Compliance
Title 47 of the CFR, Part 15 §15.203, §15.407	Antenna Requirement	Data valid from module FCC ID: Z64-CC3235MOD
Title 47 of the CFR, Part 15 §15.207(a), §15.407	Conducted Emissions Voltage	Not Applicable
Title 47 of the CFR, Part 15 §15.247(a)(2), §15.407	6dB Occupied Bandwidth	Data valid from module FCC ID: Z64-CC3235MOD
Title 47 of the CFR, Part 15 §15.247(b), §15.407	Peak Power Output	Data valid from module FCC ID: Z64-CC3235MOD
Title 47 of the CFR, Part 15 §15.247(c), §15.407	Spurious Emissions in Non-restricted Bands	Data valid from module FCC ID: Z64-CC3235MOD
Title 47 of the CFR, Part 15 §15.247(d); §15.209; §15.205, §15.407	Radiated Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15; §15.247(e), §15.407	Peak Power Spectral Density	Data valid from module FCC ID: Z64-CC3235MOD

Executive Summary of FCC Compliance Testing

II. Equipment Configuration

A. Overview

Eurofins Electrical and Electronic Testing NA, Inc. was contracted by OnAsset Intelligence, Inc. to perform testing on the SENTRY 600 FLIGHTSAFE, under purchase order number 6296.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of OnAsset Intelligence, Inc., SENTRY 600 FLIGHTSAFE.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	SENTRY 600 FLIGHTSAFE	
Model(s) Covered:	SENTRY 600 FLIGHTSAFE	
EUT Specifications:	Primary Power: 3.8 VDC (Battery Powered)	
	Type of Modulations:	OFDM, BPSK, QPSK
	Equipment Code:	DTS
	Technology	TX Frequency Range
	WiFi	2412 MHz - 2462 MHz 5150 MHz – 5825MHz
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
Duty Cycle for Testing:	100%	
Evaluated by:	Arsalan Hasan	
Date(s):	October 9, 2021	

EUT Summary Table

B. References

CFR 47, Part 15, Subpart C	Federal Communication Commission, Code of Federal Regulations, Title 47, Part 15: General Rules and Regulations, Allocation, Assignment, and Use of Radio Frequencies
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices
ANSI C63.4:2014	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
ISO/IEC 17025:2017	General Requirements for the Competence of Testing and Calibration Laboratories
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
KDB 558074 v05r02	Guidance For Performing Compliance Measurements On Digital Transmission Systems (DTS) Operating Under Section 15.247

References

C. Test Site

All testing was performed at Eurofins Electrical and Electronic Testing NA, Inc., 3162 Belick St., Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 5 meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at Eurofins Electrical and Electronic Testing NA, Inc.

Eurofins Electrical and Electronics Testing NA, Inc. is an ISO/IEC 17025 accredited site by A2LA, California #0591.02.

D. Measurement Uncertainty

Test Method	Typical Expanded Uncertainty	K	Confidence Level
Radiated Emissions, (30 MHz – 1 GHz)	±3.24	2	95%
Radiated Emissions, (1 GHz – 6 GHz)	±3.92	2	95%
Conducted Emission Voltage	±2.44	2	95%
RF Frequencies	±4.52 Hz	2	95%
RF Power Conducted Emissions	±2.32 dB	2	95%
RF Power Conducted Spurious Emissions	±2.25 dB	2	95%
RF Power Radiated Emissions	±3.01 dB	2	95%

Uncertainty Calculations Summary

E. Description of Test Sample

Name of EUT/Model:	SENTRY 600 FLIGHTSAFE
Description of EUT and its intended use:	SENTRY 600 is a non-installed PED (personal electronic device) that is placed inside the cargo packaging or container and is used for monitoring the condition of the cargo during transit. SENTRY 600 units can be charged via a USB wall charger. Contains the following sensors: Temperature, humidity, light, pressure, Accelerometer, Camera and Speaker.
Selected Operation Mode(s):	The EUT radio is control by external software via a laptop.
Rationale for the selection of the Operation Mode(s):	This is the preferred mode of controlling the radio.
Monitoring Method(s):	Signals are displayed on a spectrum analyzer.
Emissions Class Declaration:	Class A
Configuration(s):	NA
EUT Power Requirement	
Voltage:	3.6 V
AC or DC:	DC
Voltage Frequency:	NA
Number of Phases:	NA
Current:	0.1 A
Physical Description	
EUT Arrangement:	Table Top
System with Multiple Chassis?	NA
Size (HxWxD - inches):	122.05mm x 93.50mm x 22mm
Weight (lbs):	0.5 lbs
Other Info	
EUT Software (internal to EUT):	Rev 1
Support Software (used by support PC to exercise EUT):	NA
Firmware:	Rev 1
Transmitter Parameters	
Description of your unit:	WiFi 802.11 a/b/g/n
Modulation Type:	OFDM
Number of Channels:	NA
Frequency range (MHz):	2412 MHz –2462 MHz 5150 MHz – 5825MHz
Antenna Type:	PCB Trace
Antenna Gain (dBi):	3.5 dBi (2.4GHz Range) 4.5 dBi (5GHz Range)
HVIN:	NA
FVIN:	NA
HMN:	NA
Data Rates:	NA
Expected Power Level:	15 dBm (Conducted)
Number of Antenna:	1

EUT List

Ref. ID	Slot #	Name/Description	Model Number	Part Number	Serial Number	Rev. #
M8		SENTRY 600 FlightSafe	SENTRY 600 FlightSafe	11-5100-003	M8	NA
4		AC/DC WALL MOUNT ADAPTER	AC/DC WALL MOUNT ADAPTER	L6R12-050U	NA	NA

Ports and Cabling

Ref. ID	Port Name on EUT	Cable Description or reason for no cable	Qty	Length as tested (m)	Max Length (m)	Shielded? (Y/N)	Termination Box ID & Port Name
NA	NA	USB Cable	1	0.9144	1	Yes	NA

Support Equipment

Ref. ID	Name/Description	Manufacturer	Model Number	Customer Supplied Calibration Data
Test Laptop	5CG7153NYP OAILT-11	HP	HP ProBook 640 G2 14" Laptop Computer	NA

F. Modifications
a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

G. Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electromagnetic Compatibility Lab for testing was returned to OnAsset Intelligence, Inc. upon completion of testing.

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.209 Radiated Spurious Emissions Requirements

Test Requirements: §15.247(d); §15.205: Emissions outside the frequency band.

§15.205(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	2655–2900	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)

Restricted Bands of Operation

¹ Until February 1, 1999, this restricted band shall be 0.490 – 0.510 MHz.

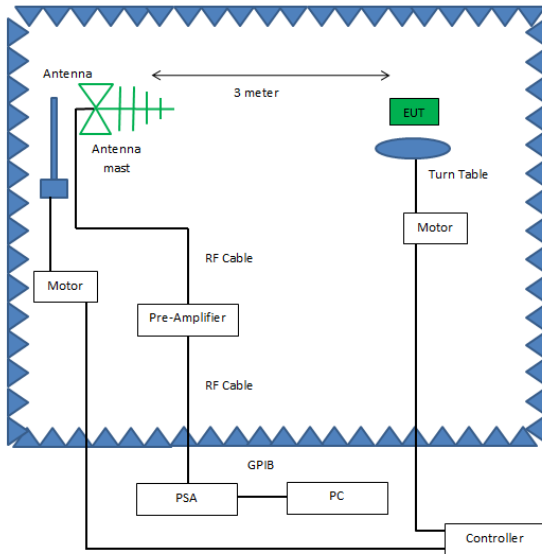
² Above 38.6

Test Requirement(s): § 15.209 (a): Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in table.

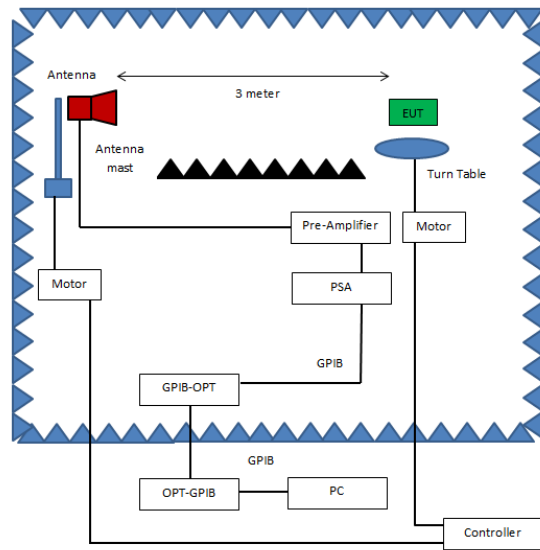
Frequency (MHz)	§ 15.209(a), Radiated Emission Limits (dBµV) @ 3m
30 - 88	40.00
88 - 216	43.50
216 - 960	46.00
Above 960	54.00

Radiated Emissions Limits Calculated from FCC Part 15, § 15.209 (a)

Test Procedures: The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for both antenna correction factor and distance and compared to a 3 m limit line. Only noise floor was measured above 18 GHz.



Radiated Emissions, Below 1GHz, Test Setup



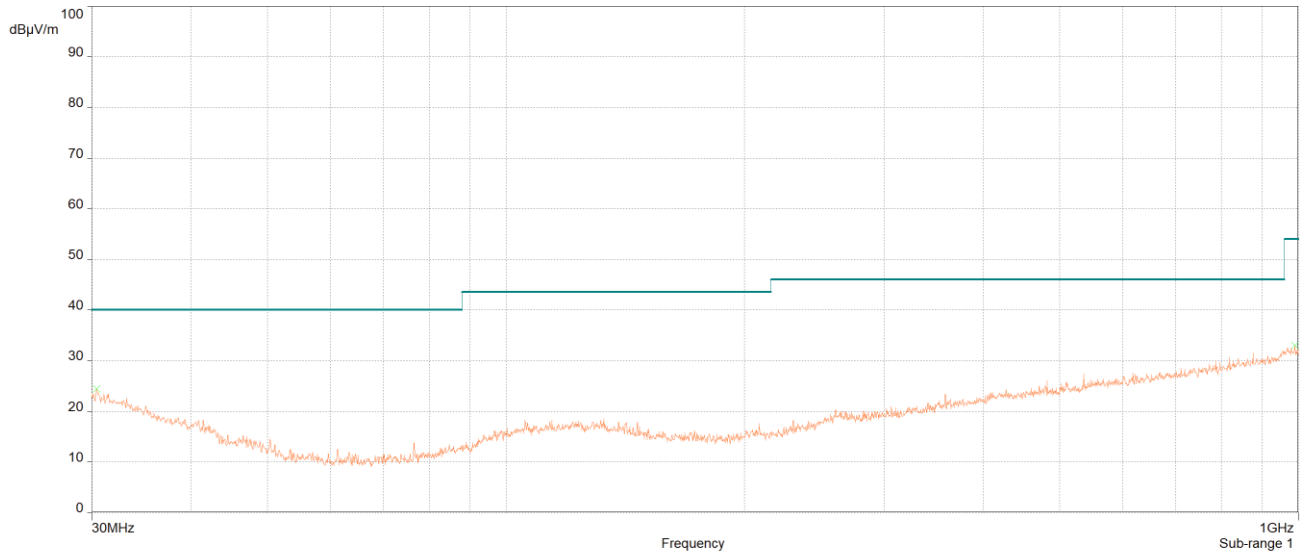
Radiated Emissions, Above 1GHz, Test Setup

Test Results: The EUT was tested is **compliant** with § 15.209 Radiated Spurious Emissions Requirements.

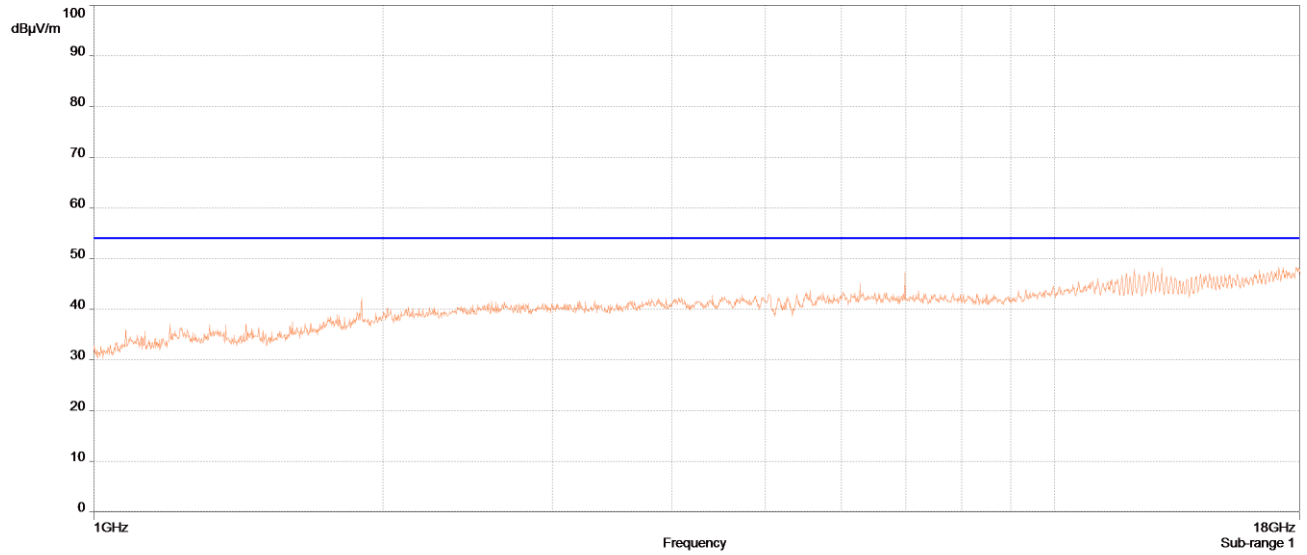
Test Engineer: Arsalan Hasan

Test Date: 04/11/2021

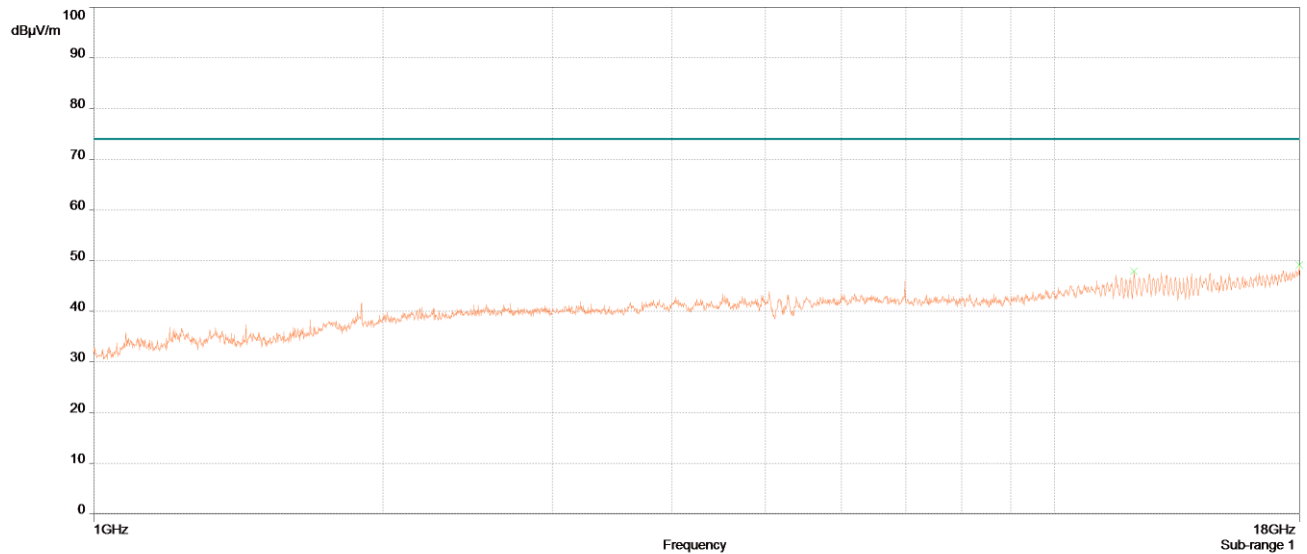
Test Data



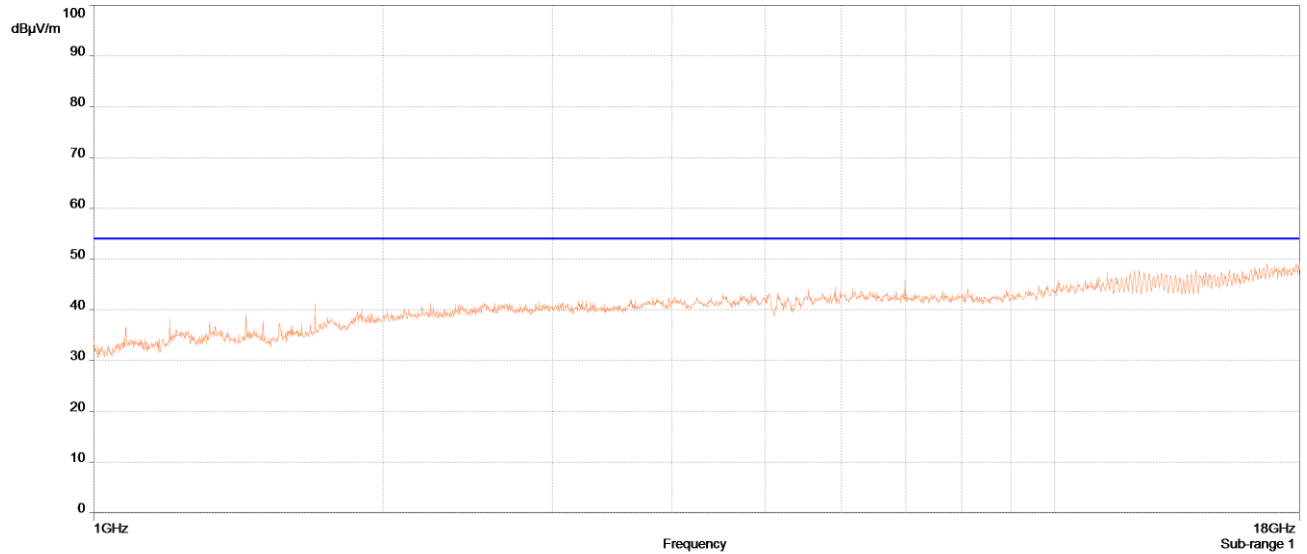
Radiated Spurious Emissions, 30MHz-1GHz, Worst Case



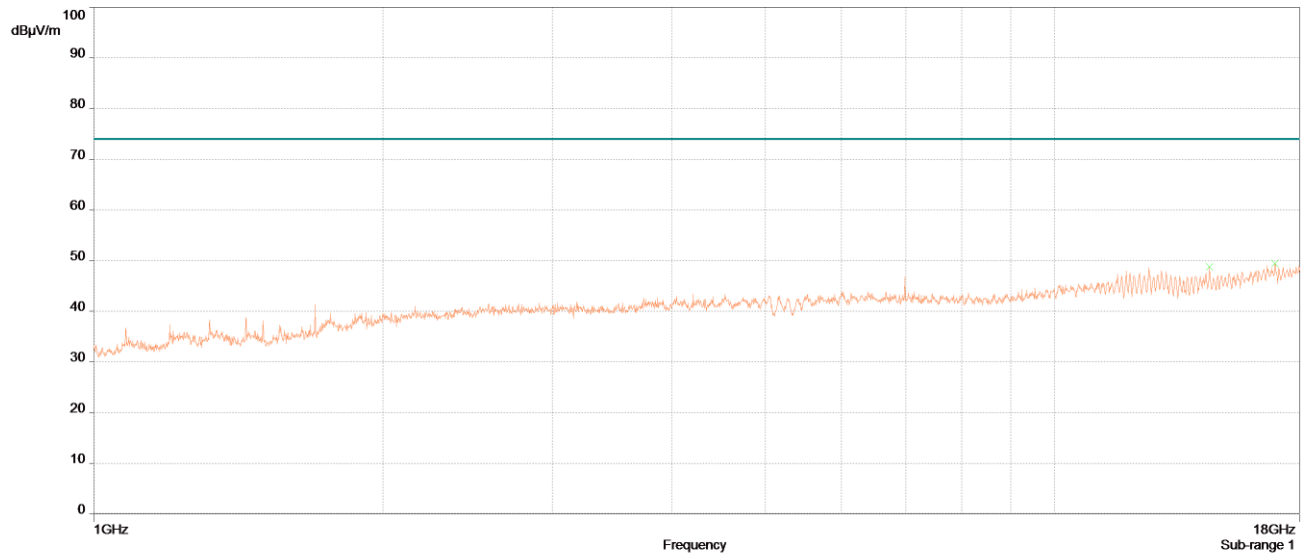
Radiated Spurious Emissions, 1GHz-18GHz, Low Channel, b mode, Average (Worst Case Pol)



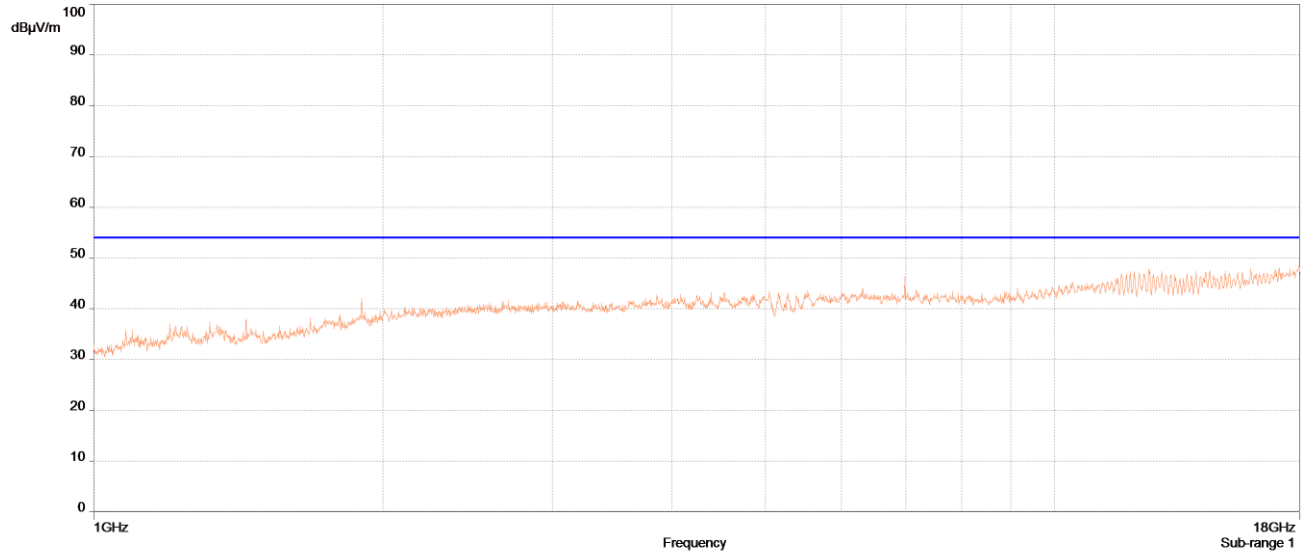
Radiated Spurious Emissions, 1GHz-18GHz, Low Channel, b mode, Peak (Worst Case Pol)



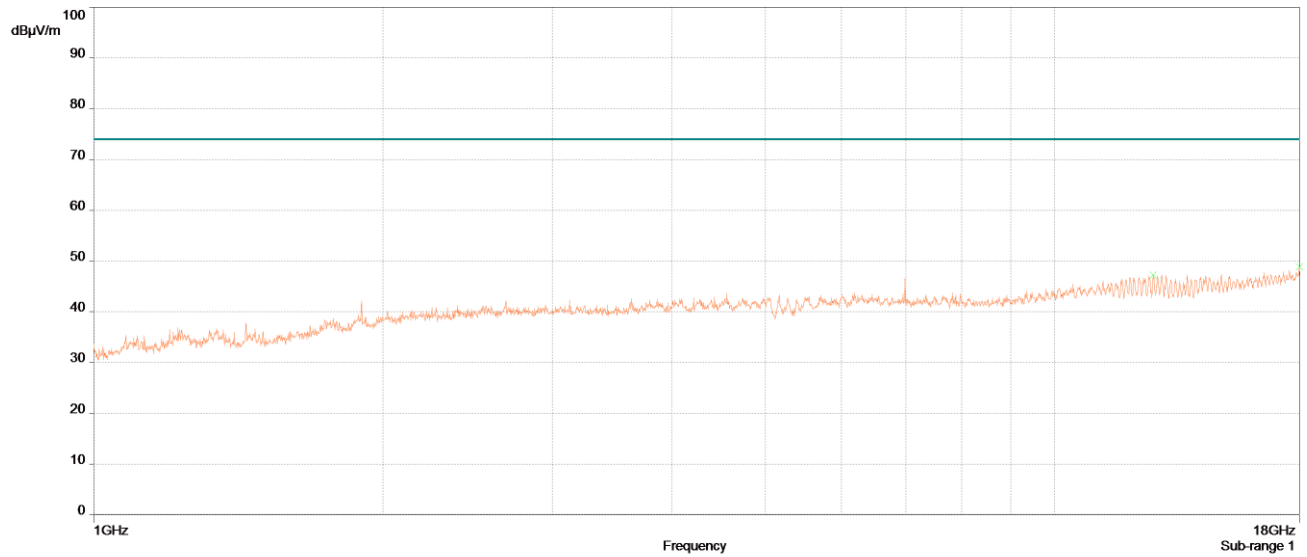
Radiated Spurious Emissions, 1GHz-18GHz, Mid Channel, b mode, Average (Worst Case Pol)



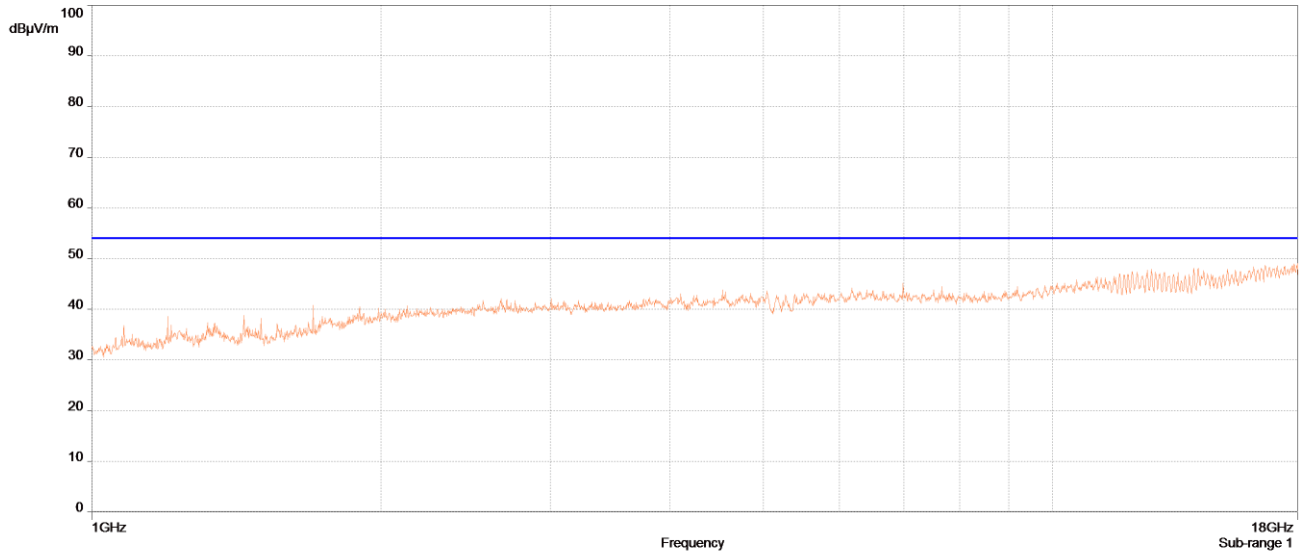
Radiated Spurious Emissions, 1GHz-18GHz, Mid Channel, b mode, Peak (Worst Case Pol)



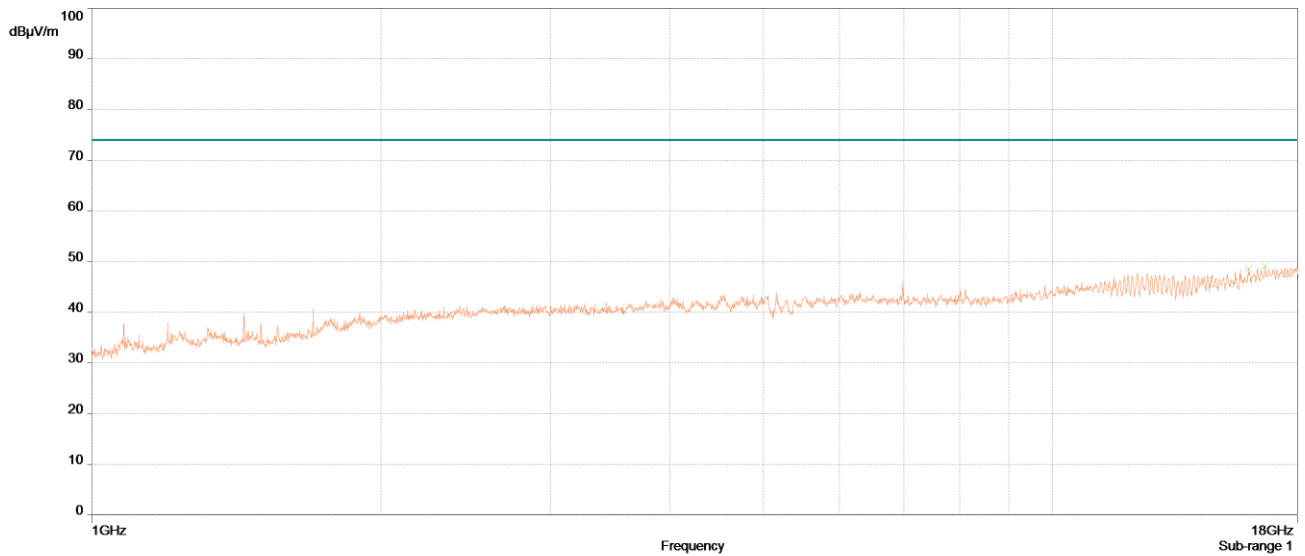
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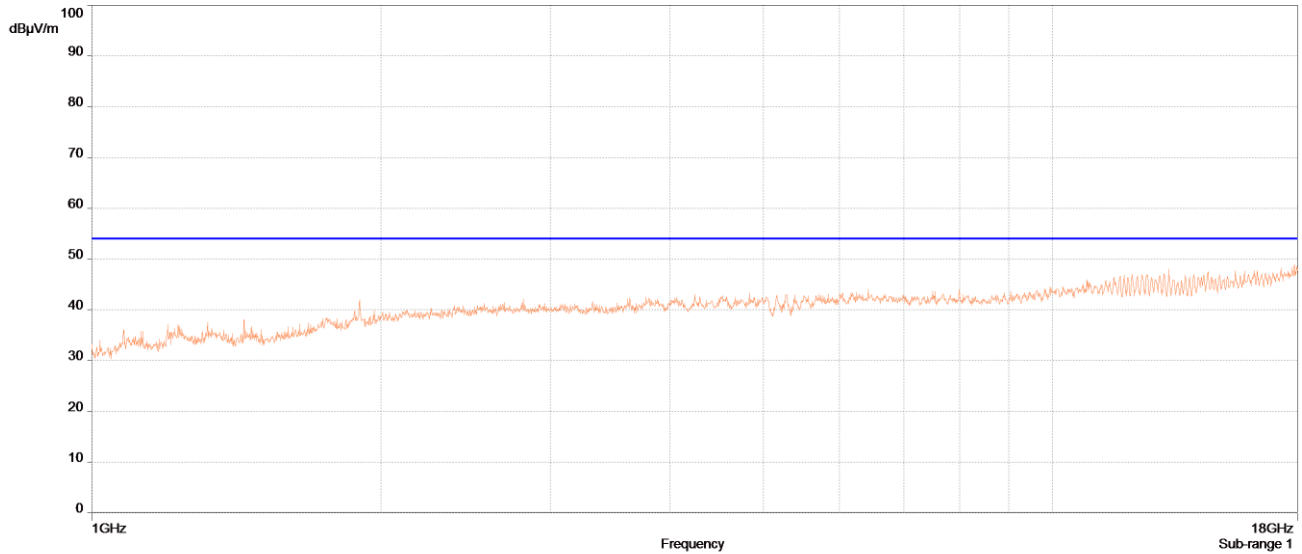
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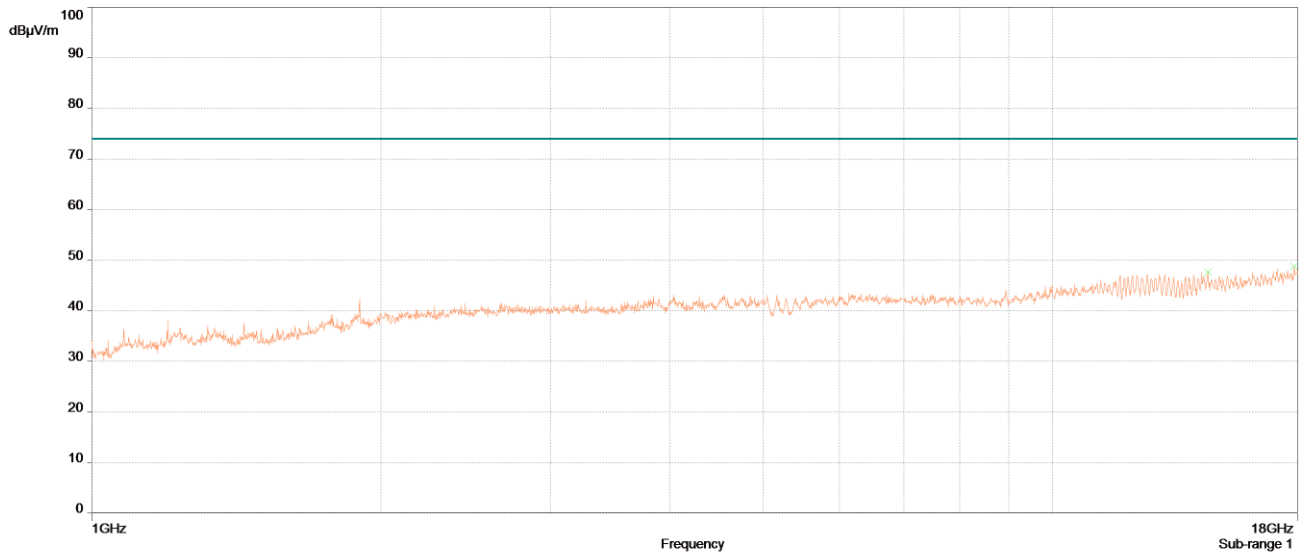
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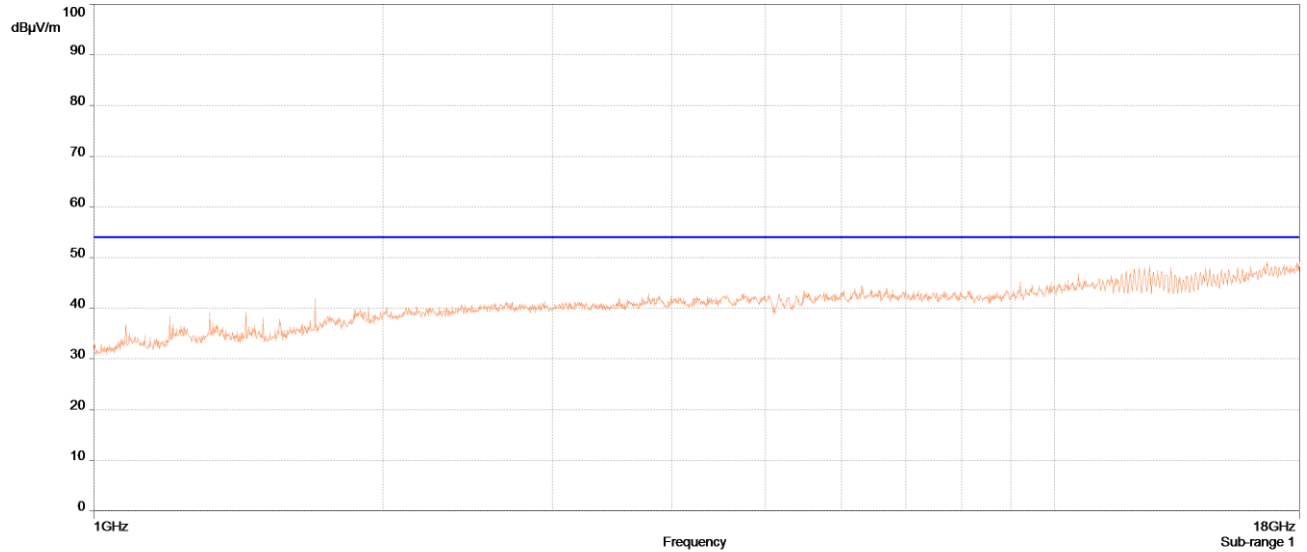
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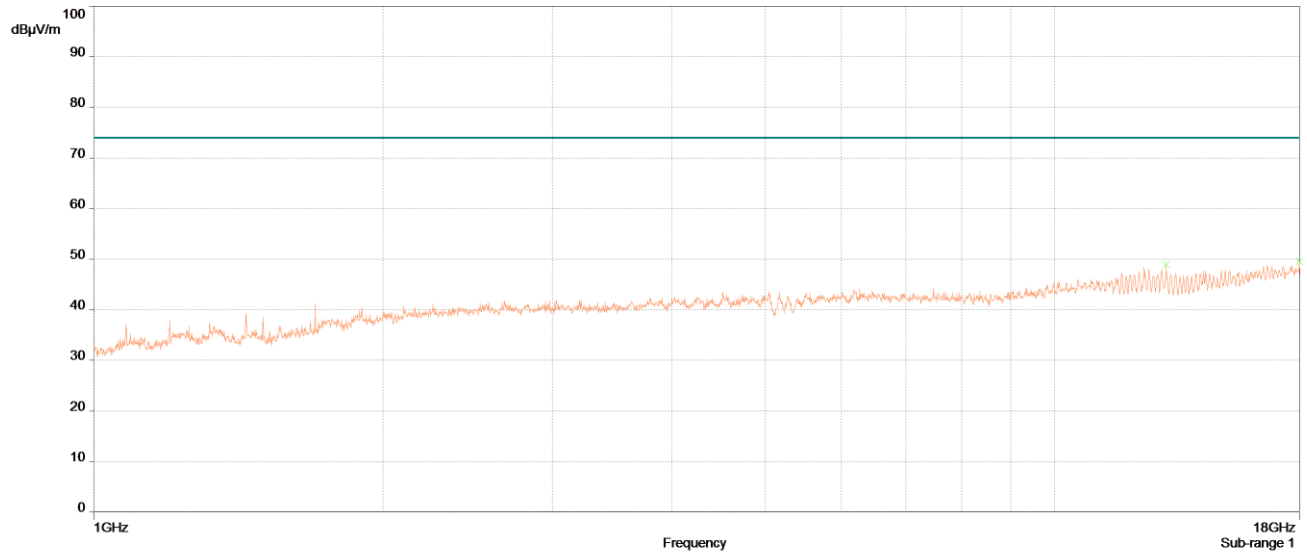
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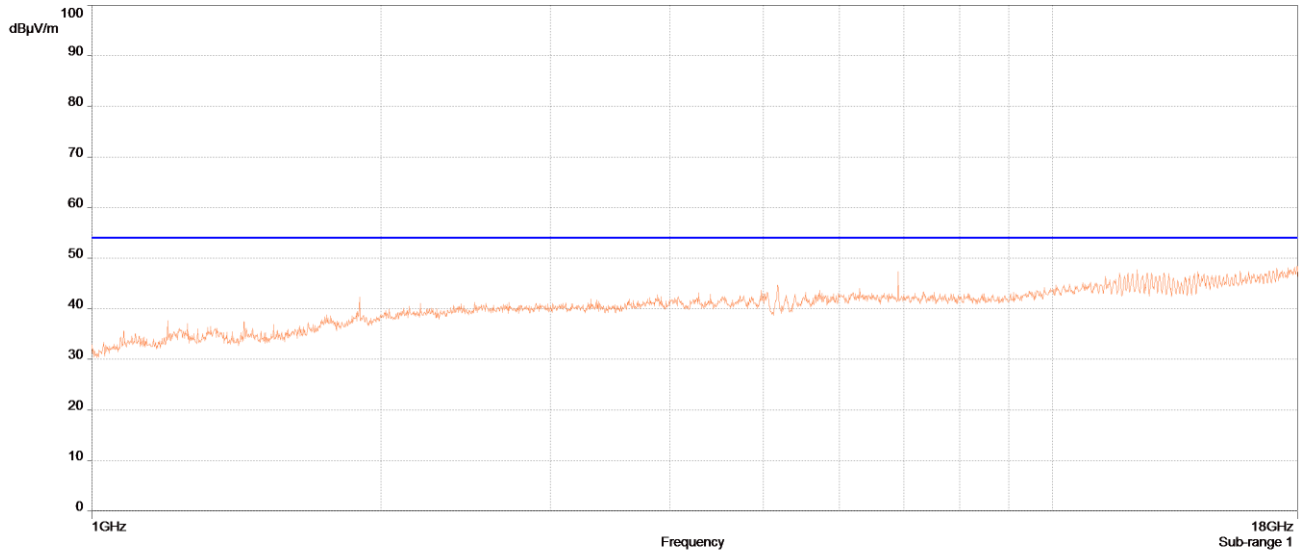
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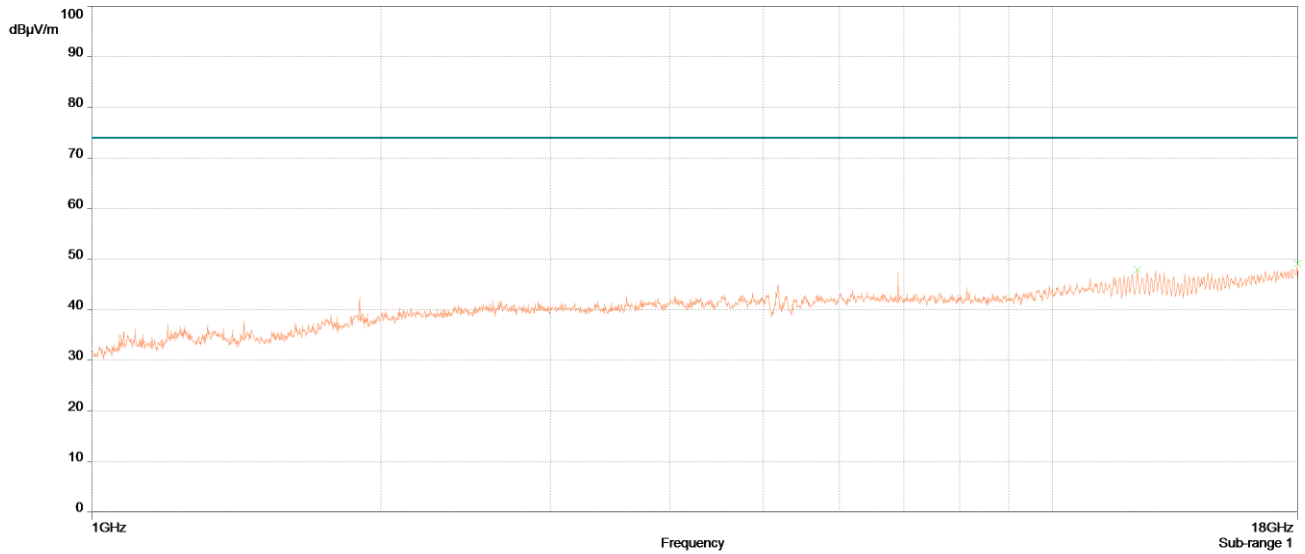
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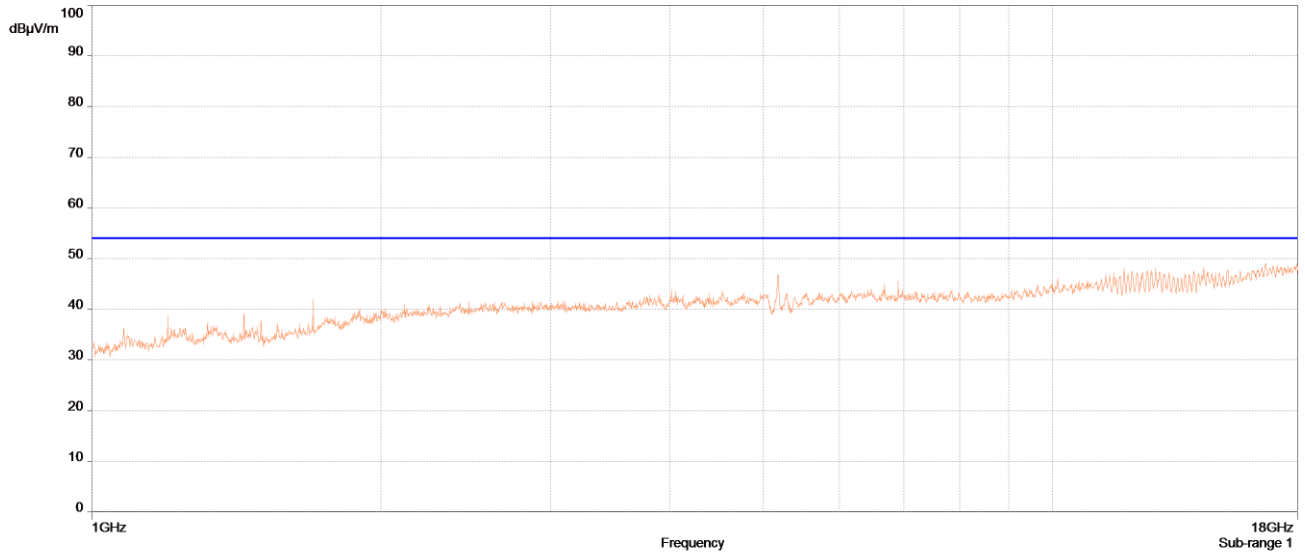
Radiated Spurious Emissions, 1GHz-18GHz, High Channel, g mode, Peak (Worst Case Pol)



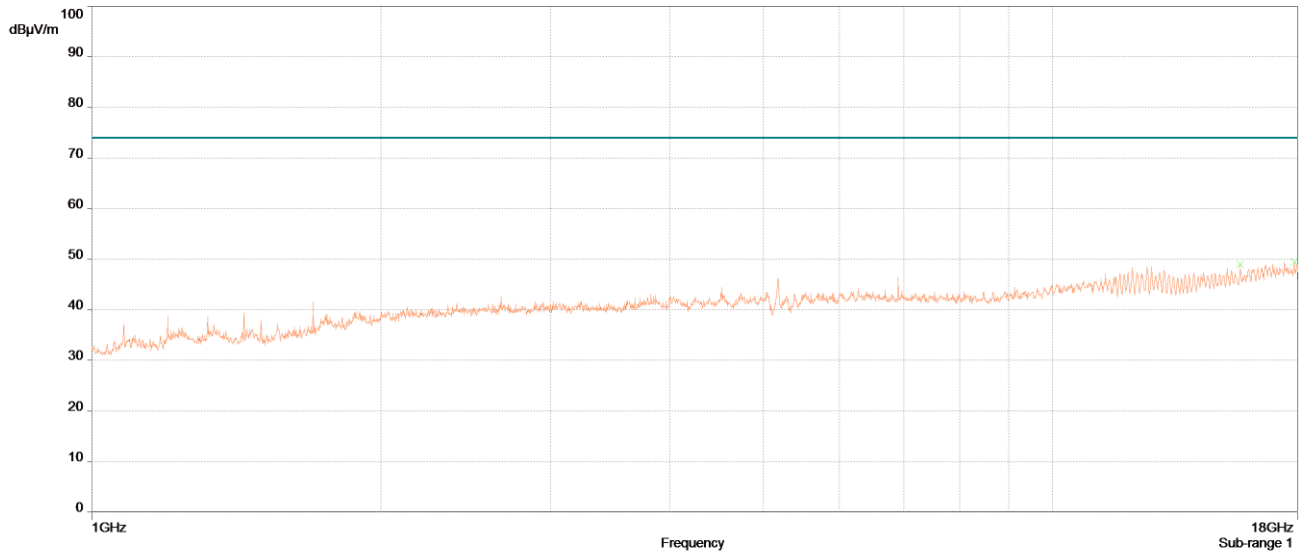
Radiated Spurious Emissions, 1GHz-18GHz, Low Channel, n 20 mode, Average (Worst Case Pol)



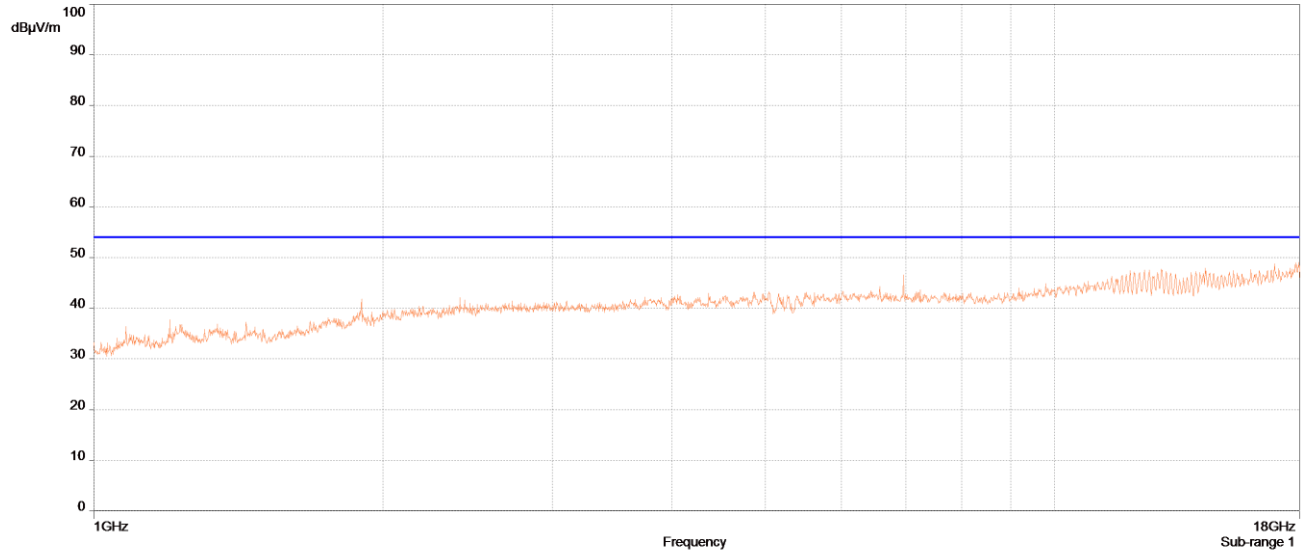
Radiated Spurious Emissions, 1GHz-18GHz, Low Channel, n 20 mode, Peak (Worst Case Pol)



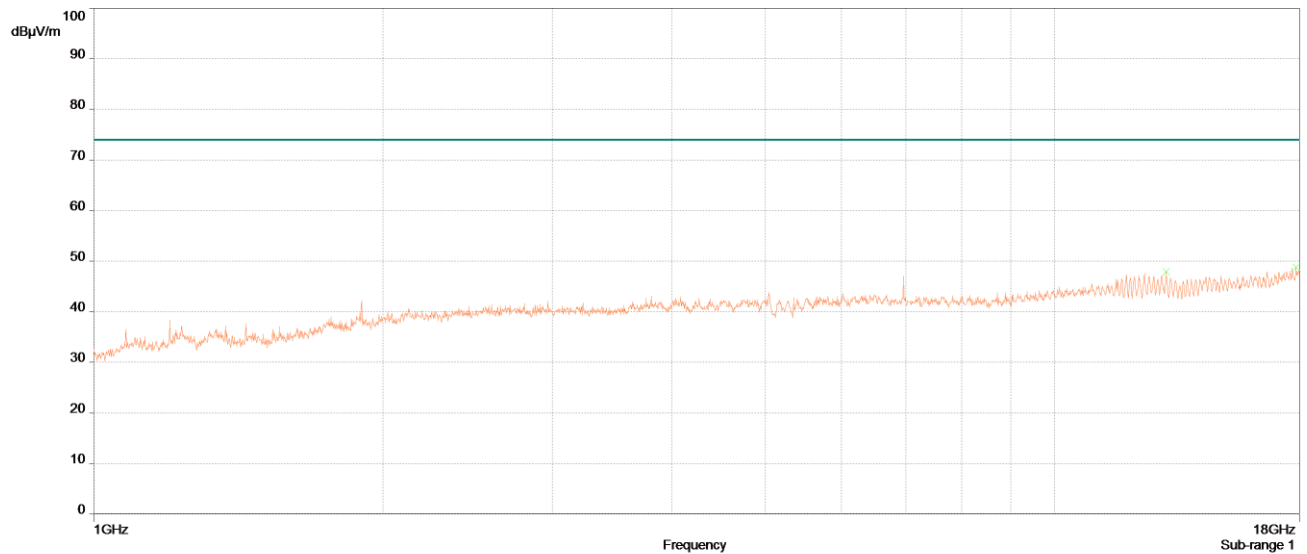
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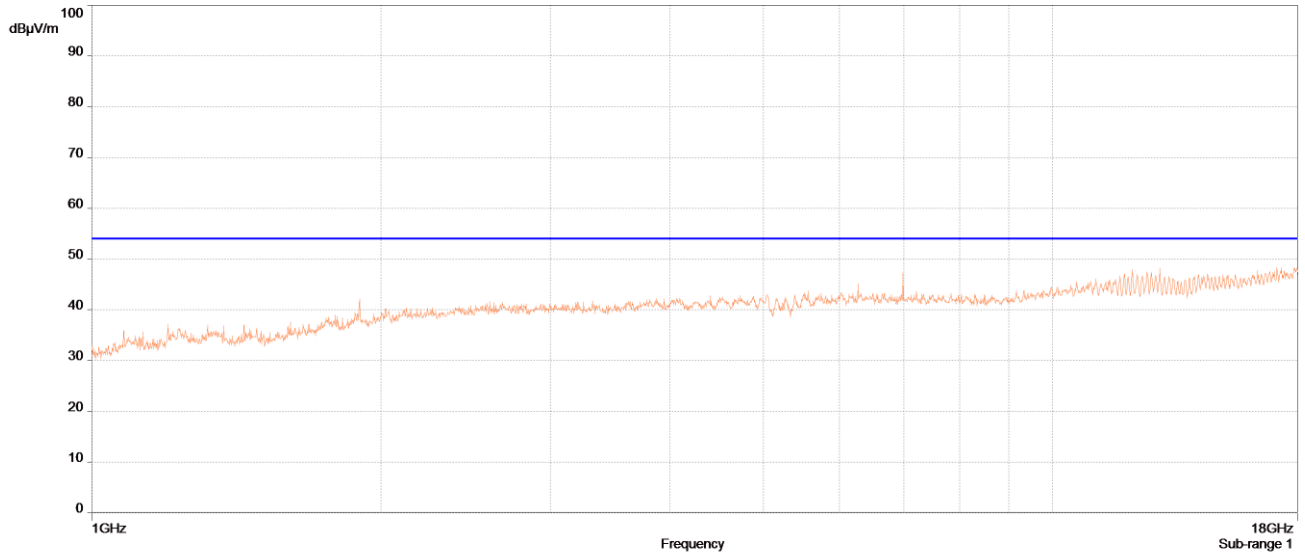
Radiated Spurious Emissions, 1GHz-18GHz, Mid Channel, n 20 mode, Peak (Worst Case Pol)



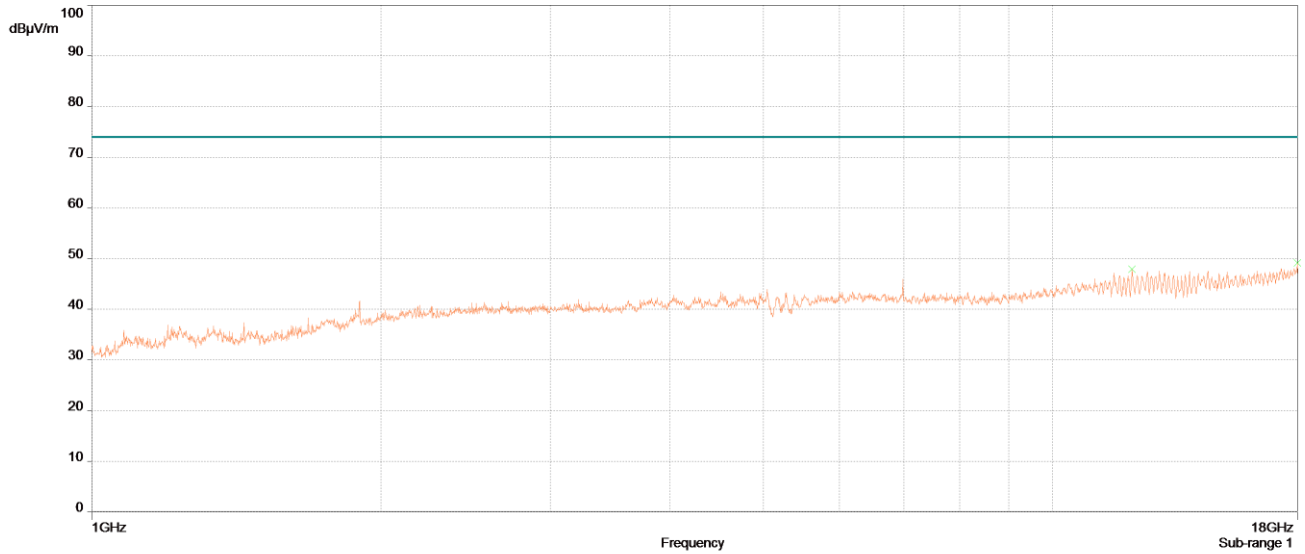
Radiated Spurious Emissions, 1GHz-18GHz, High Channel, n 20 mode, Average (Worst Case Pol)



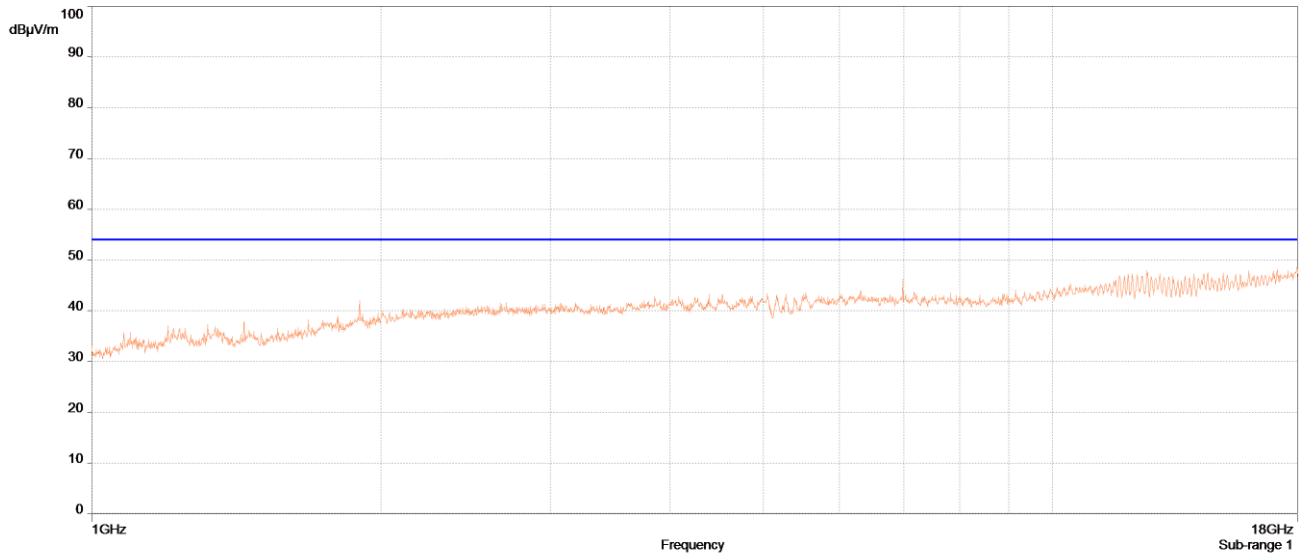
Radiated Spurious Emissions, 1GHz-18GHz, High Channel, n 20 mode, Peak (Worst Case Pol)



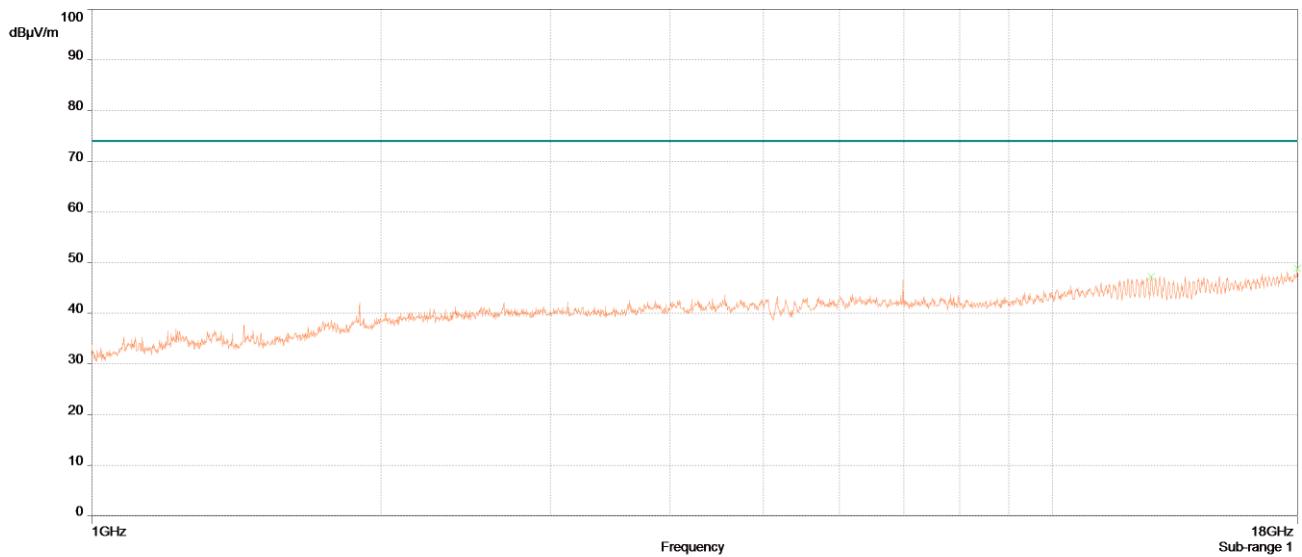
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 High Channel, a mode, Average (Worst Case Pol)



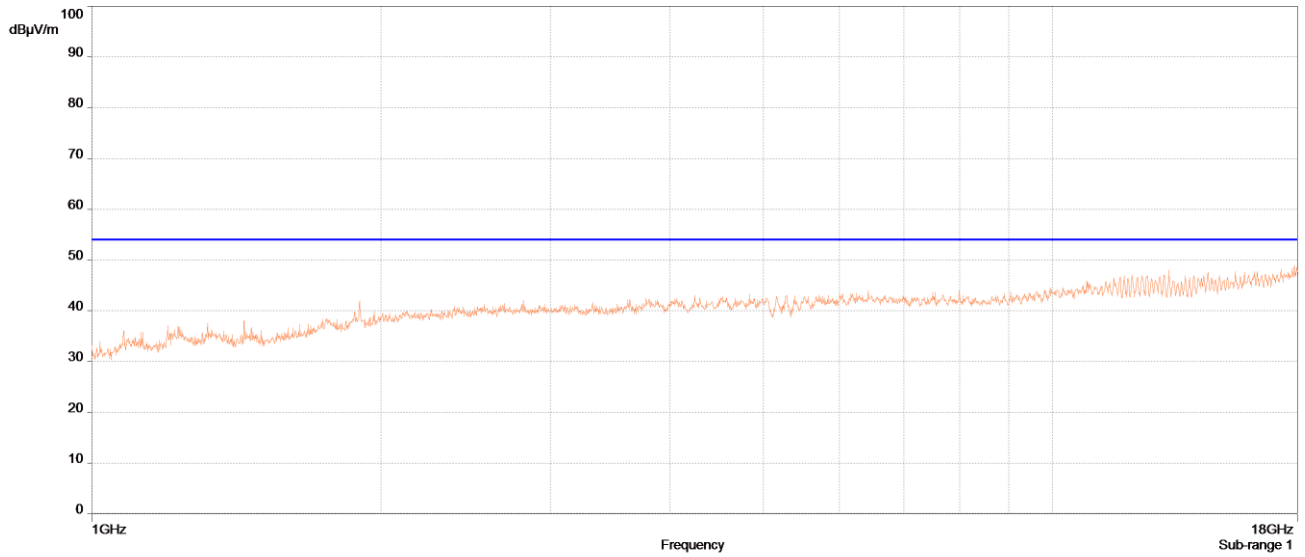
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 High Channel, a mode, Peak, (Worst Case Pol)



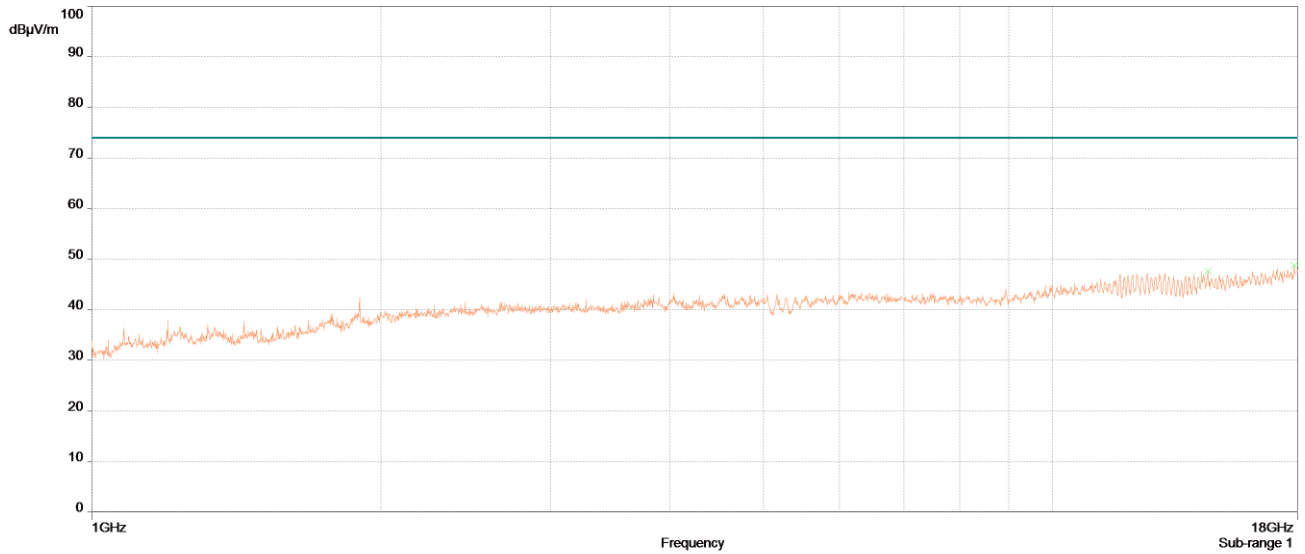
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 High Channel, n mode, Average, (Worst Case Pol)



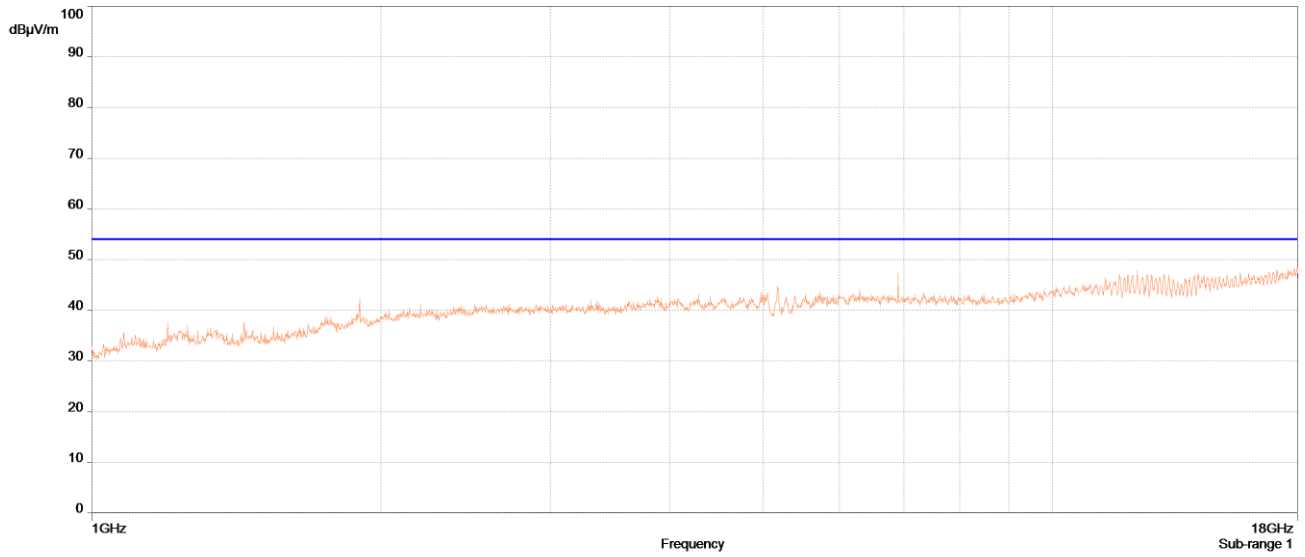
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 High Channel, n mode, Peak, (Worst Case Pol)



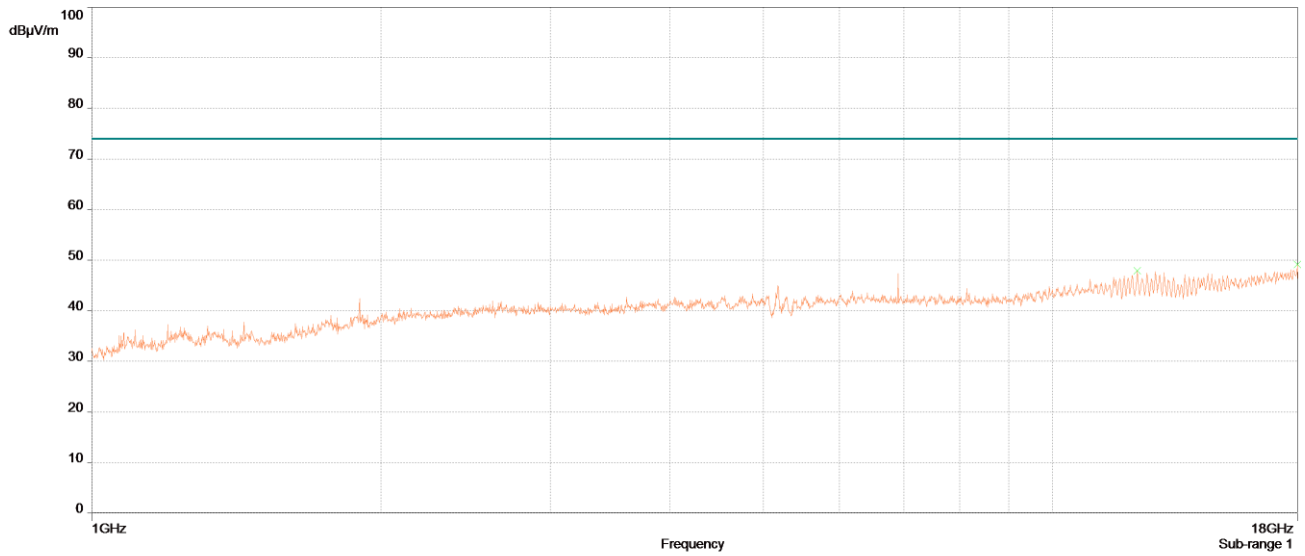
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 Low Channel, a mode, Average, (Worst Case Pol)



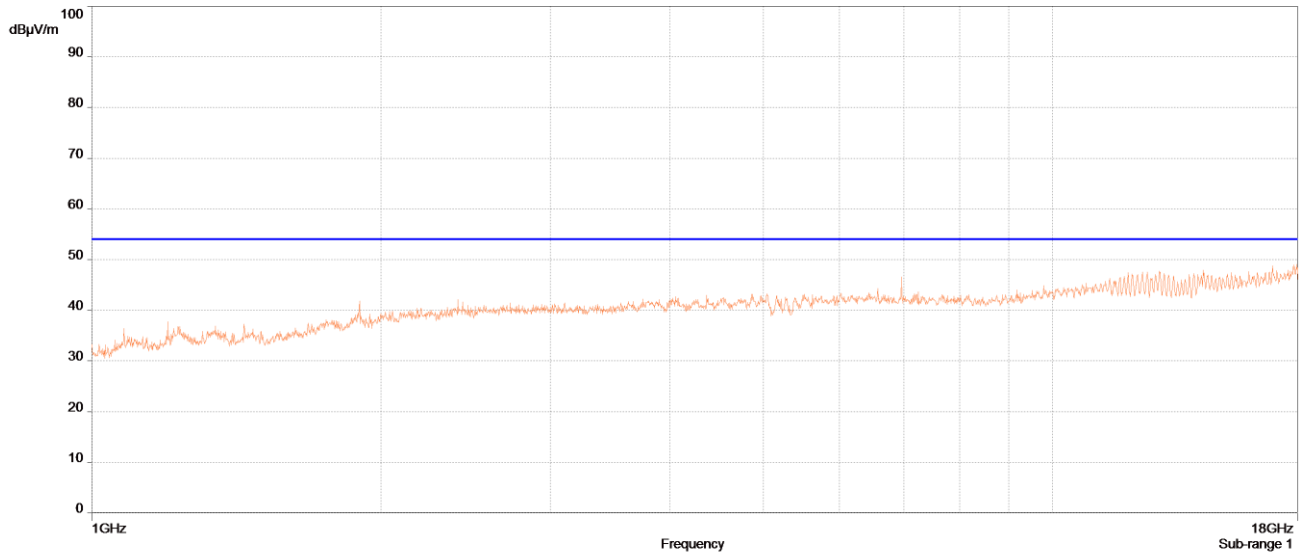
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 Low Channel, a mode, Peak, (Worst Case Pol)



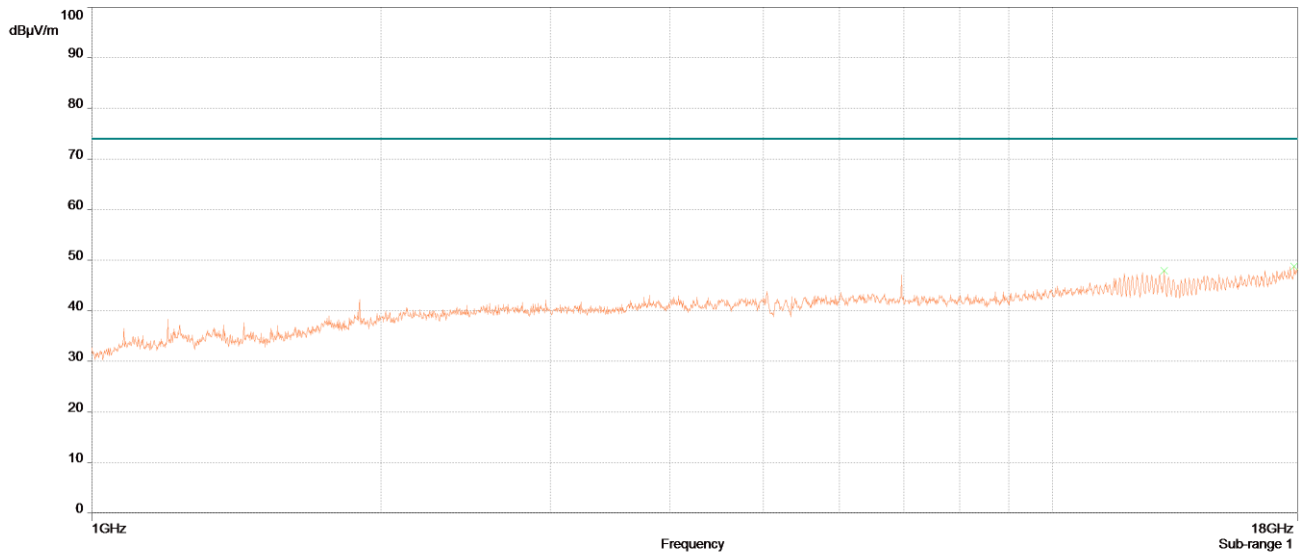
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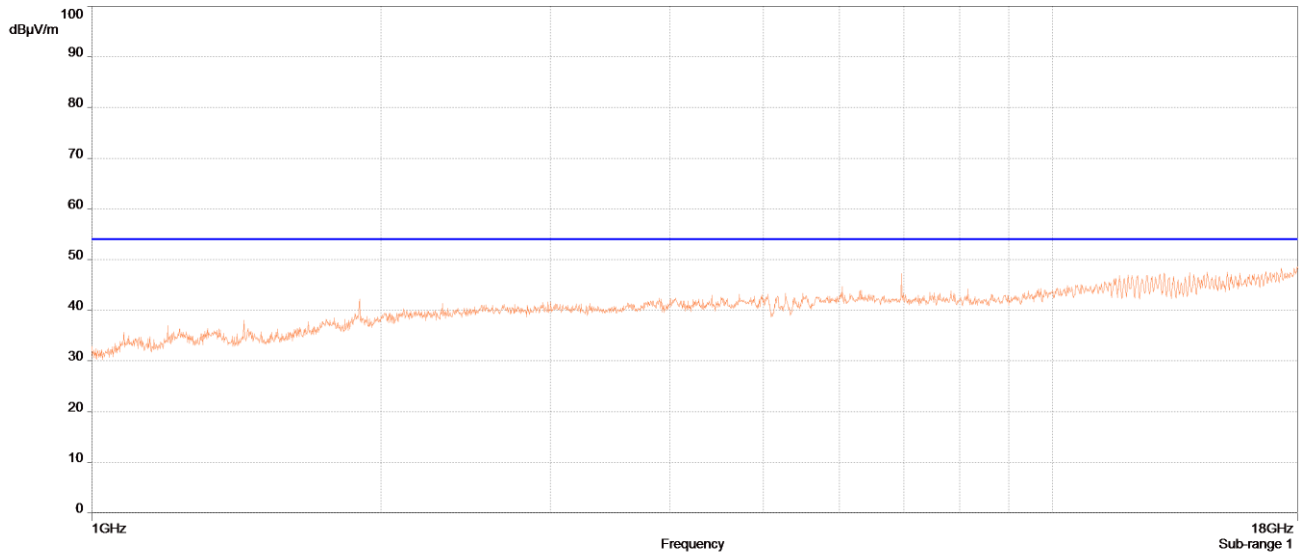
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 Low Channel, n mode, Peak, (Worst Case Pol)



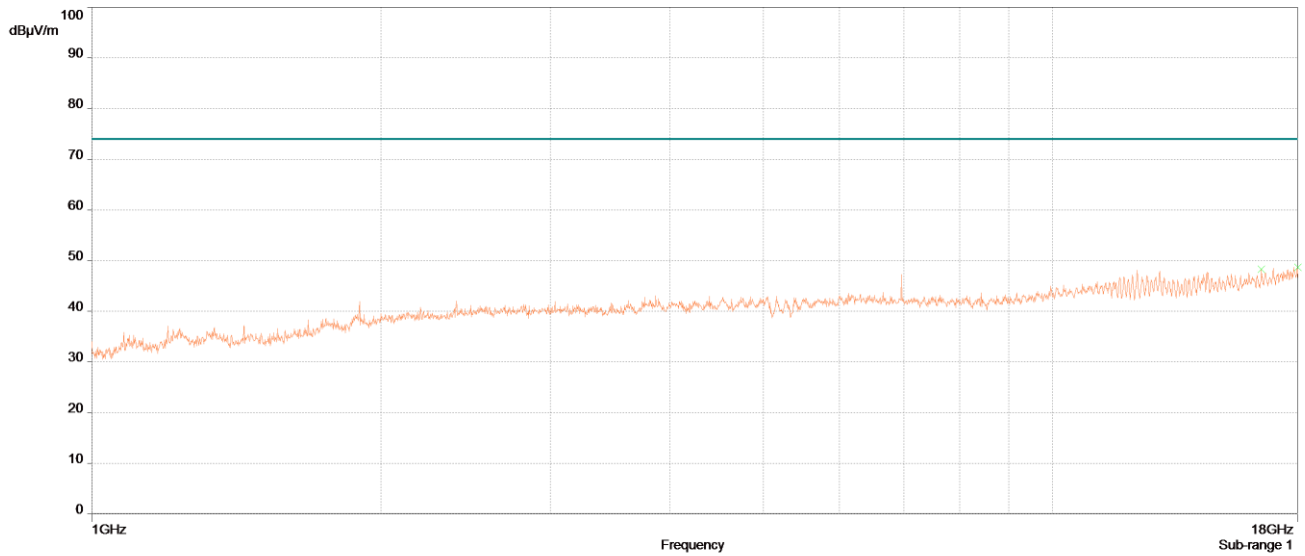
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 Mid Channel, a mode, Average, (Worst Case Pol)



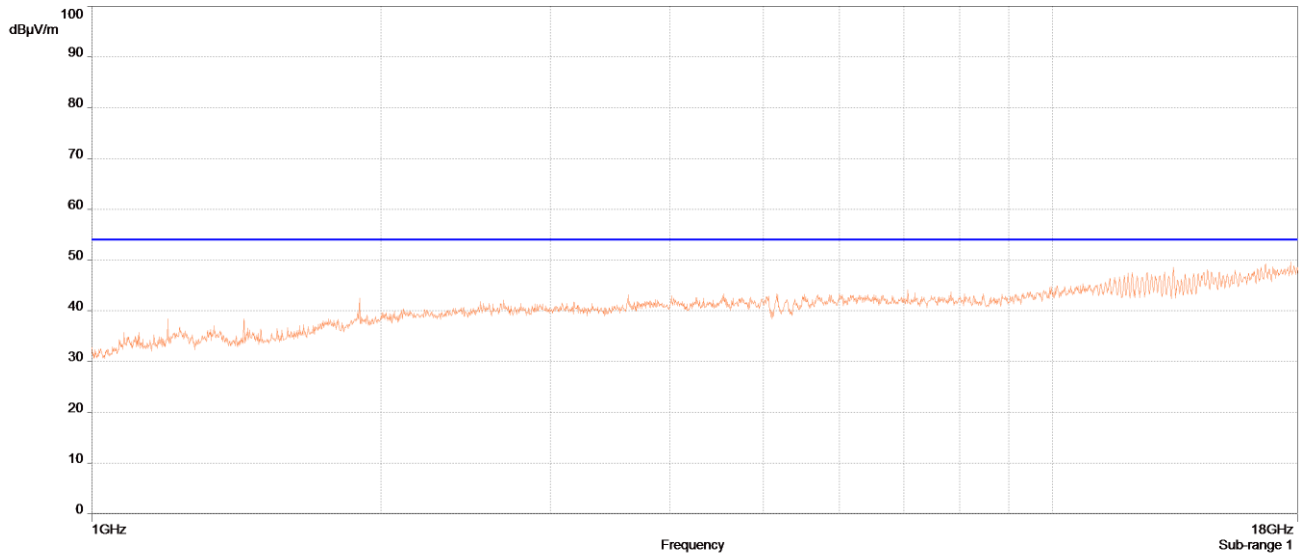
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 Mid Channel, a mode, Peak, (Worst Case Pol)



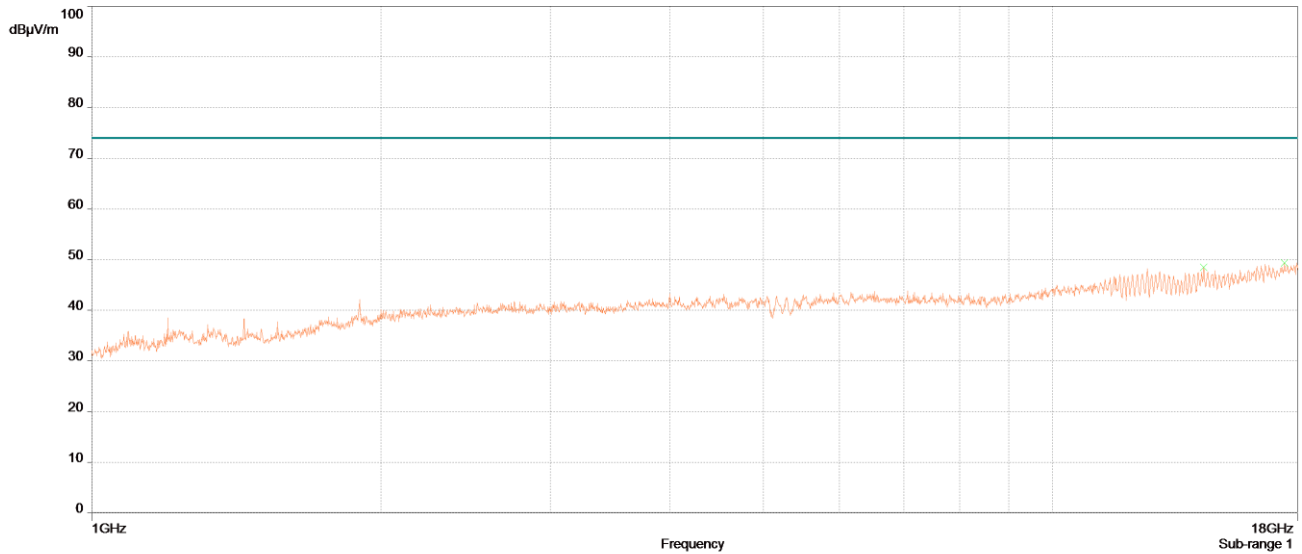
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 Mid Channel, n mode, Average, (Worst Case Pol)



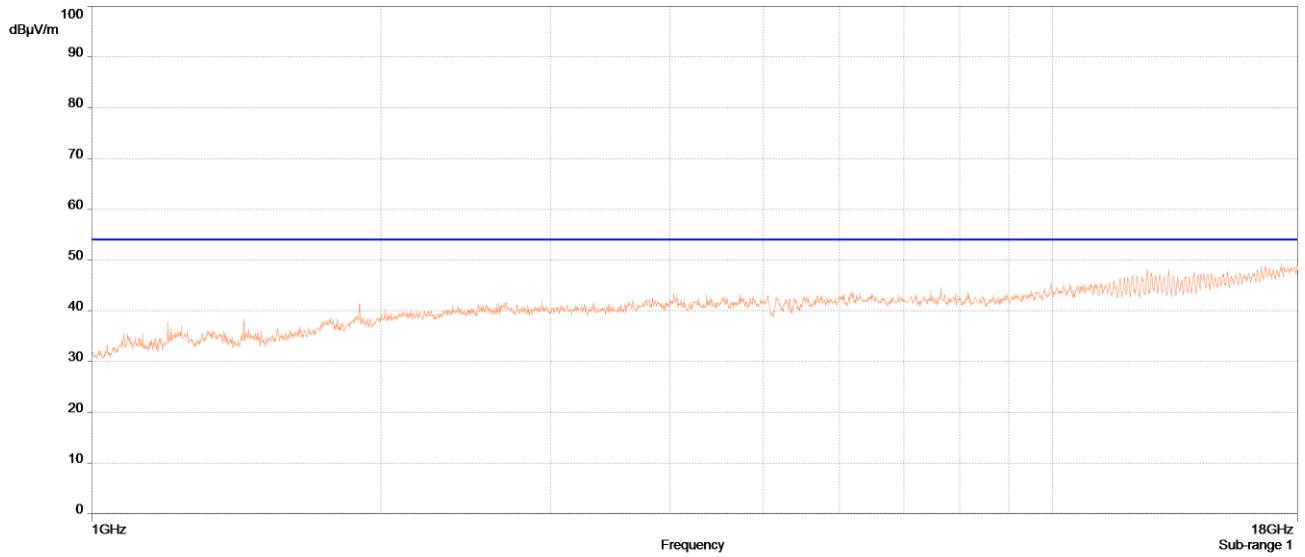
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-1 Mid Channel, n mode, Peak, (Worst Case Pol)



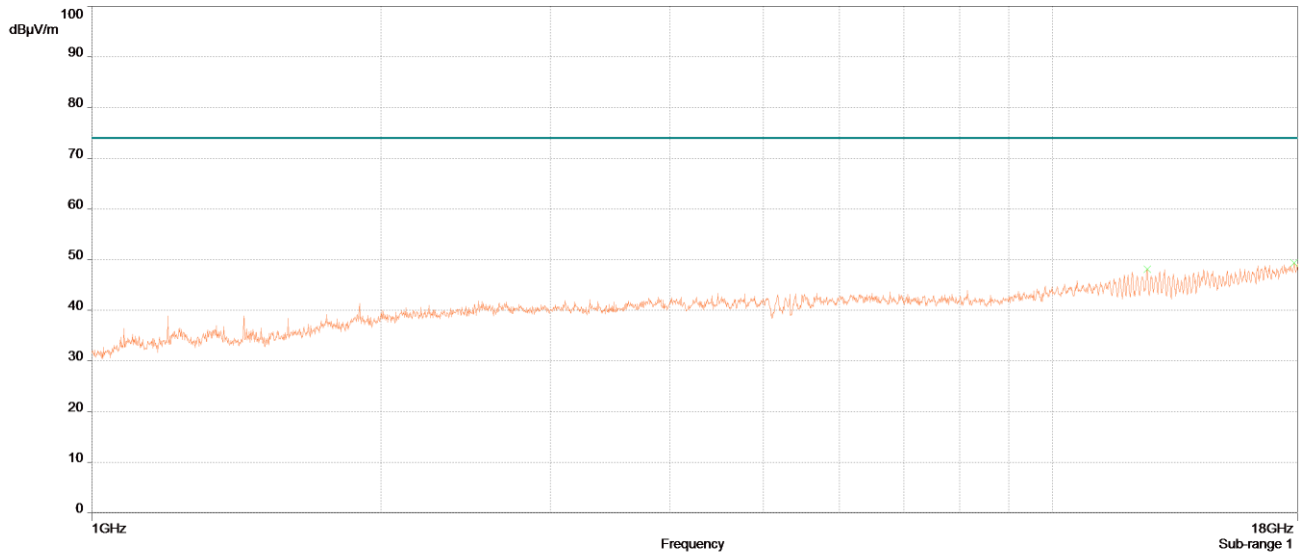
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 High Channel, a mode, Average, (Worst Case Pol)



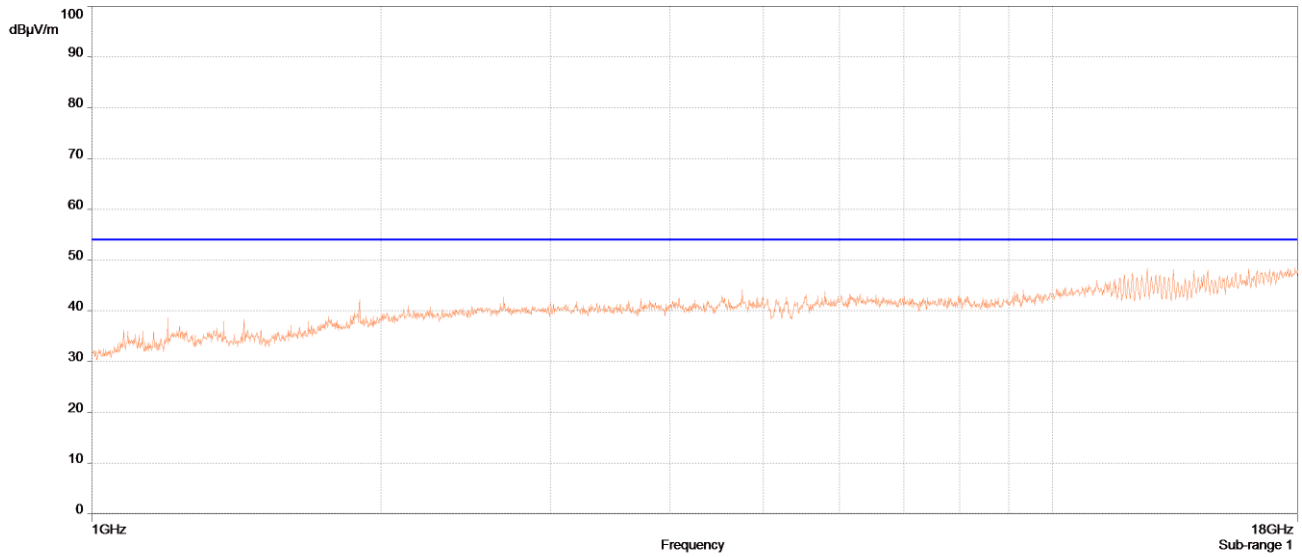
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 High Channel, a mode, Peak, (Worst Case Pol)



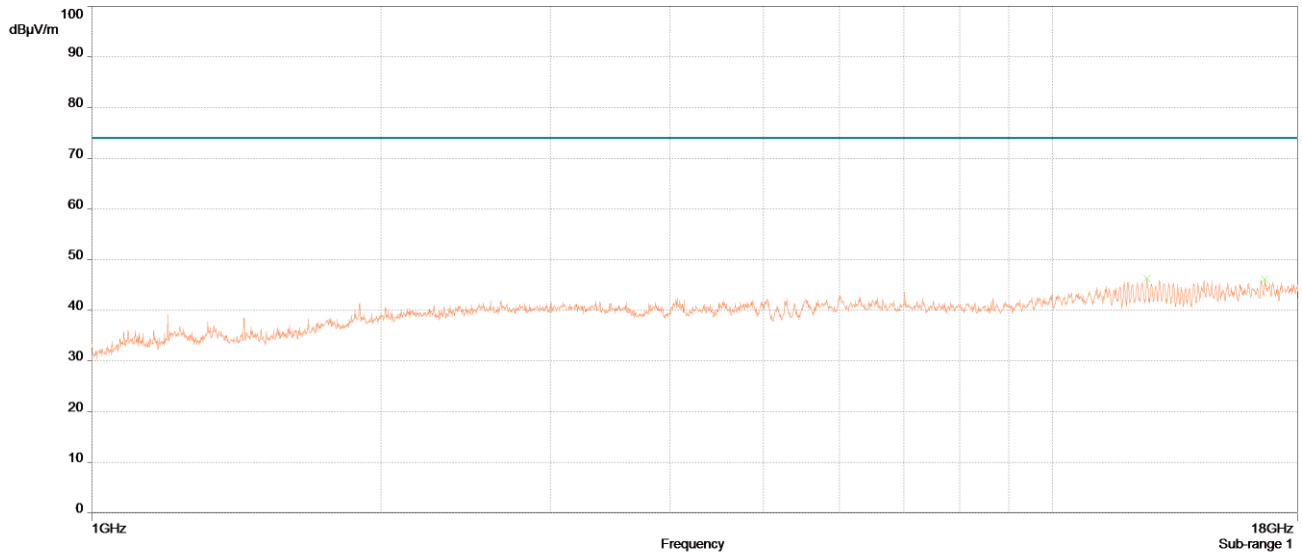
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 High Channel, n mode, Average, (Worst Case Pol)



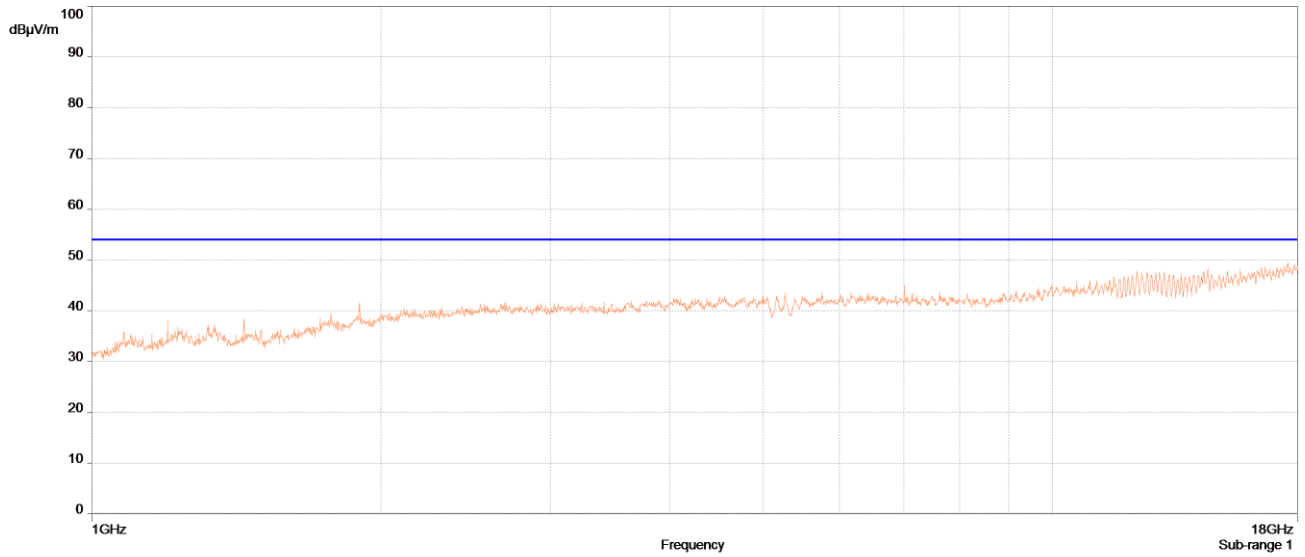
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 High Channel, n mode, Peak, (Worst Case Pol)



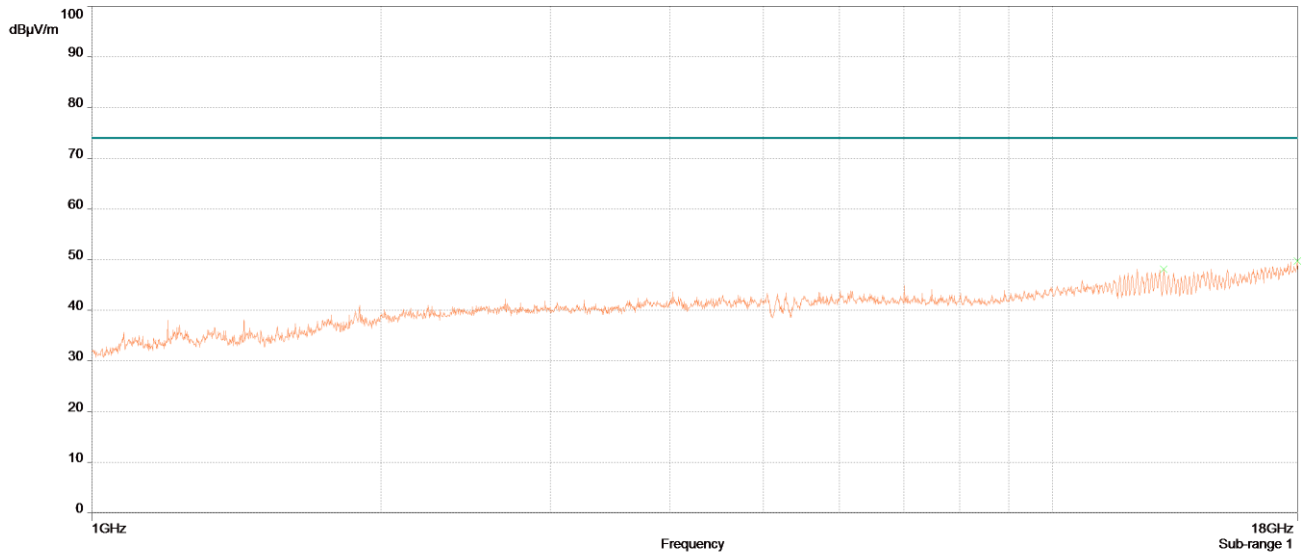
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Low Channel, a mode, Average, (Worst Case Pol)



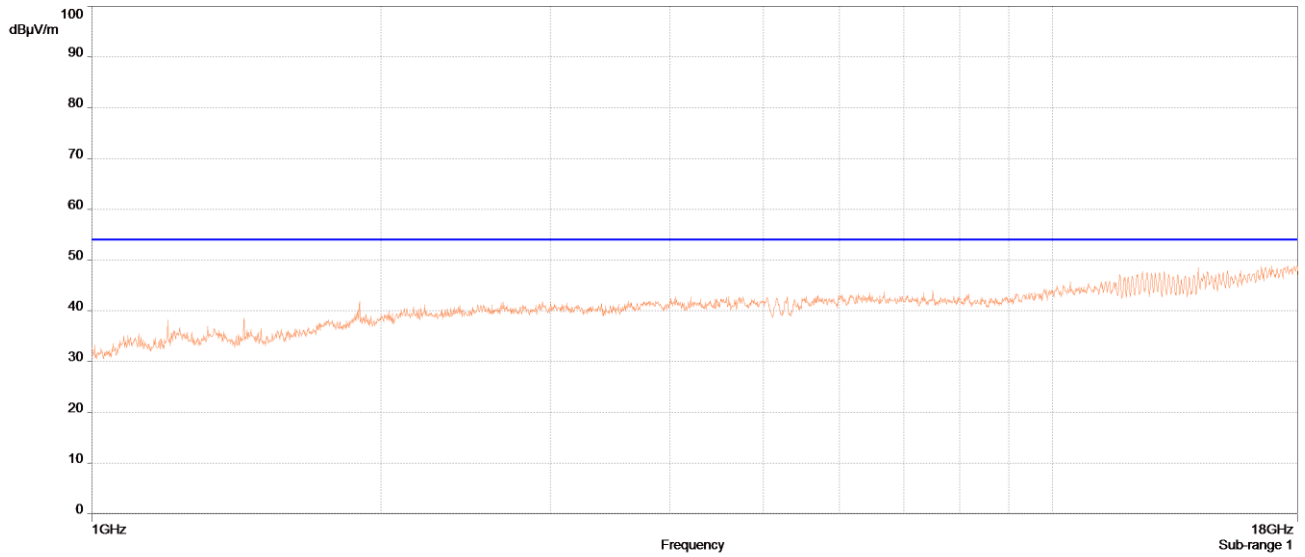
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Low Channel, a mode, Peak, (Worst Case Pol)



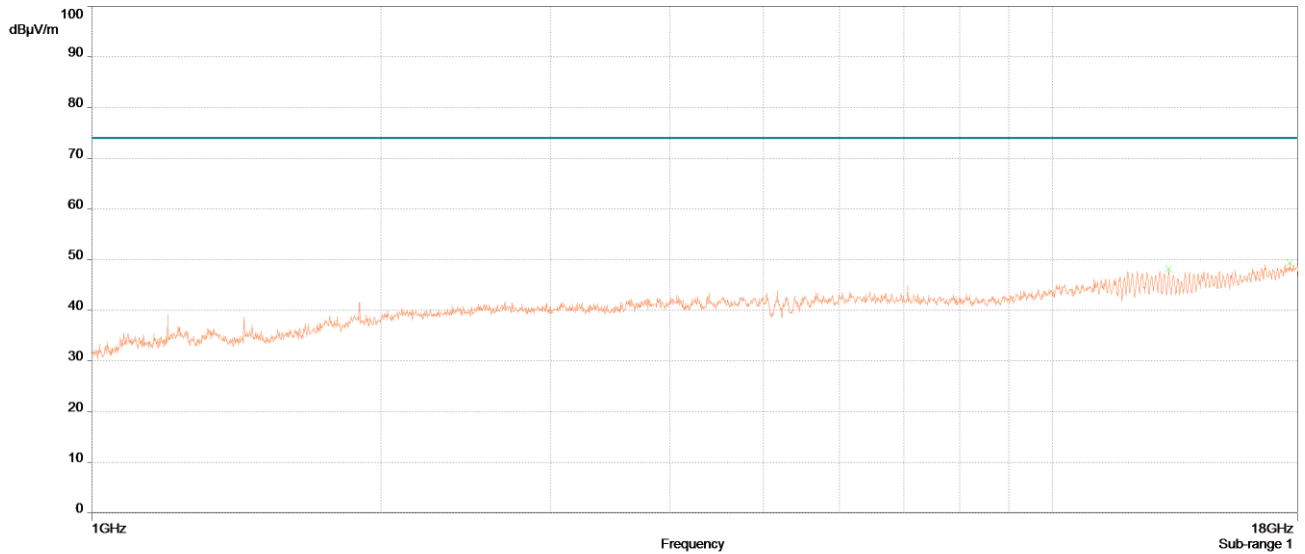
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Low Channel, n mode, Average, (Worst Case Pol)



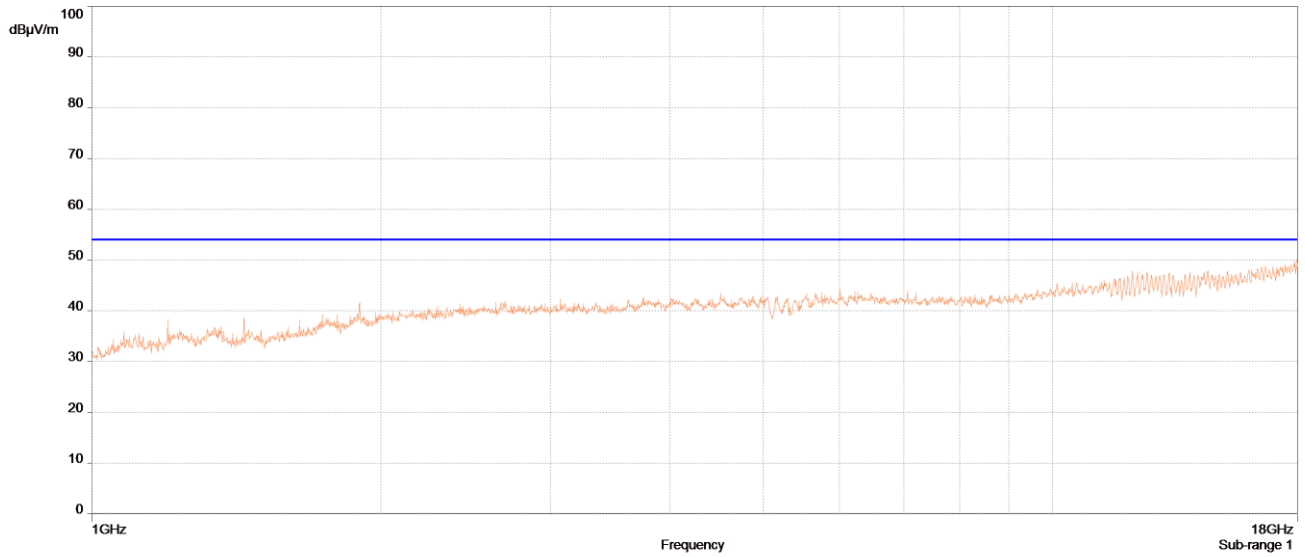
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Low Channel, n mode, Peak, (Worst Case Pol)



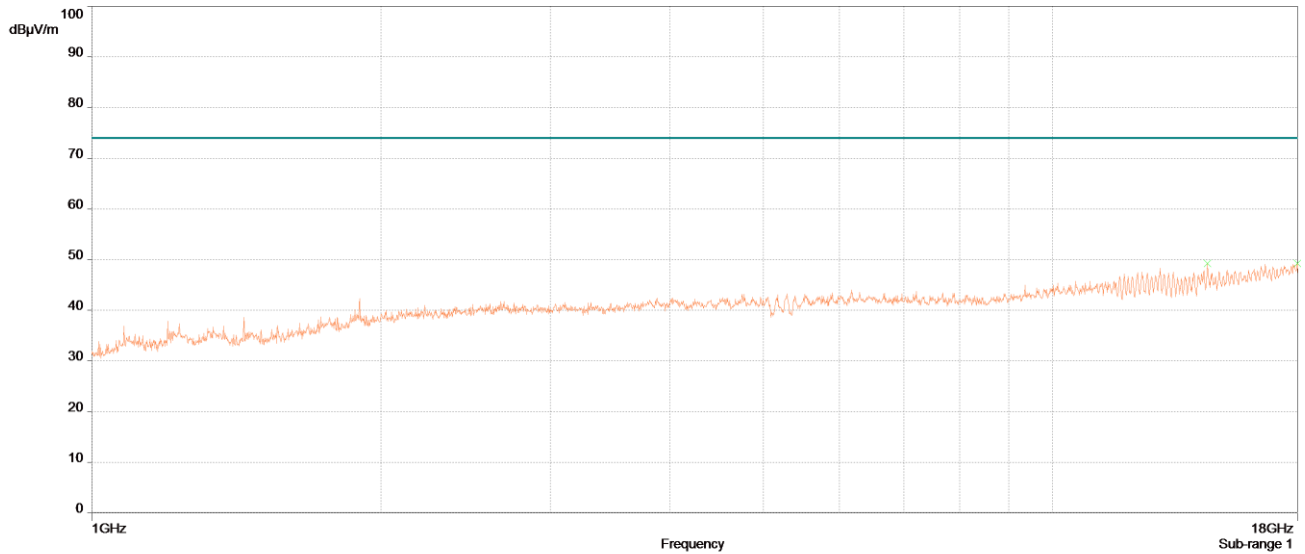
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Mid Channel, a mode, Average, (Worst Case Pol)



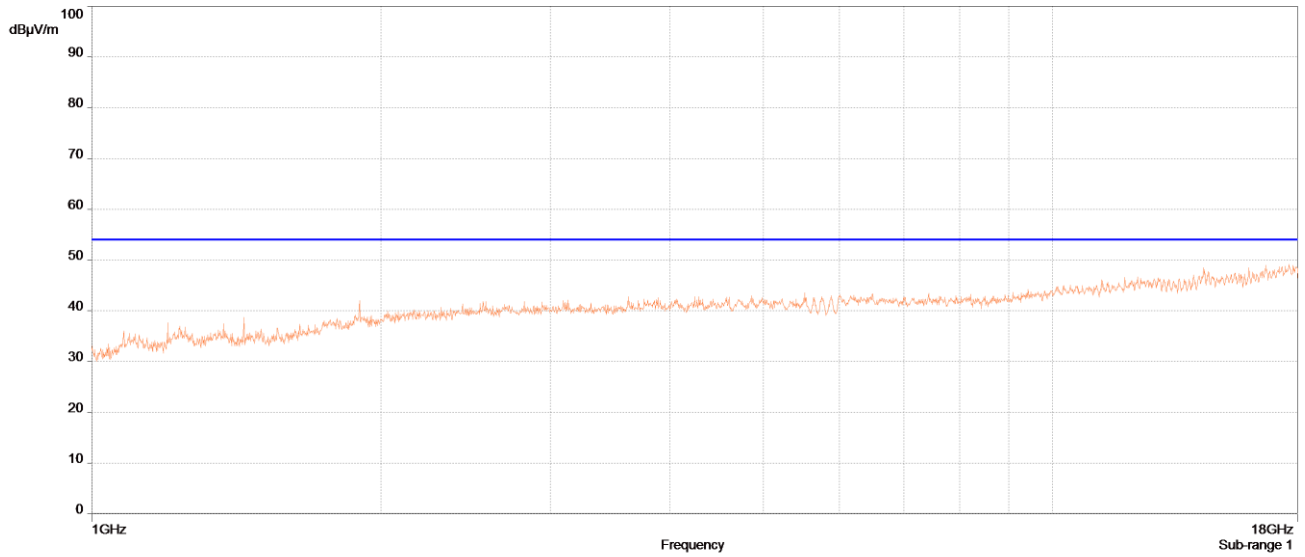
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Mid Channel, a mode, Peak, (Worst Case Pol)



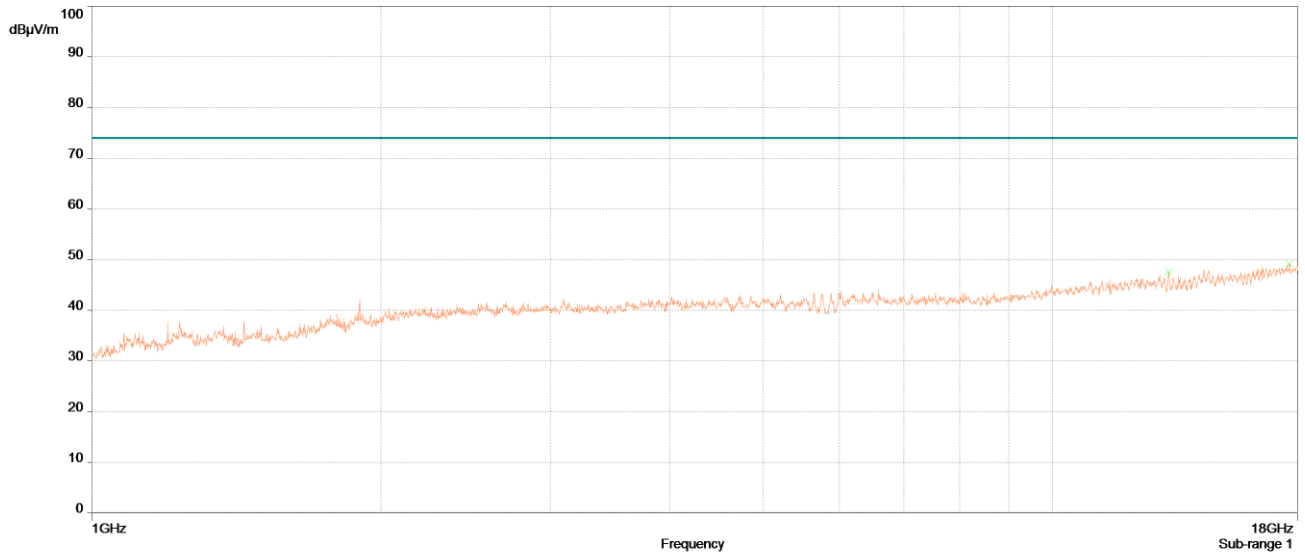
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Mid Channel, n mode, Average, (Worst Case Pol)



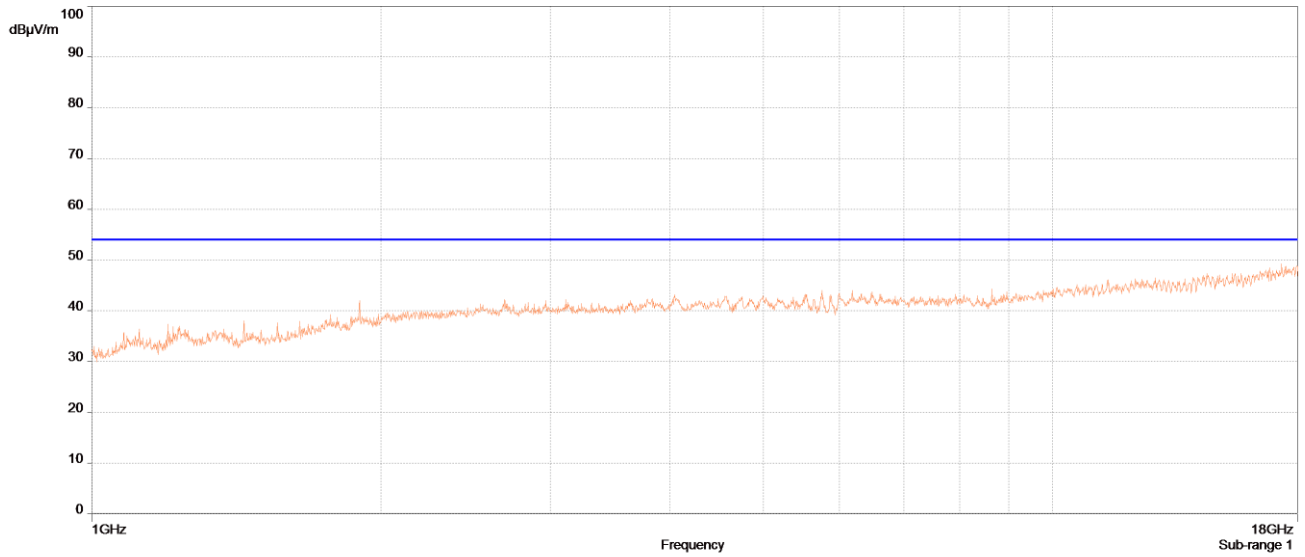
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-2 Mid Channel, n mode, Peak, (Worst Case Pol)



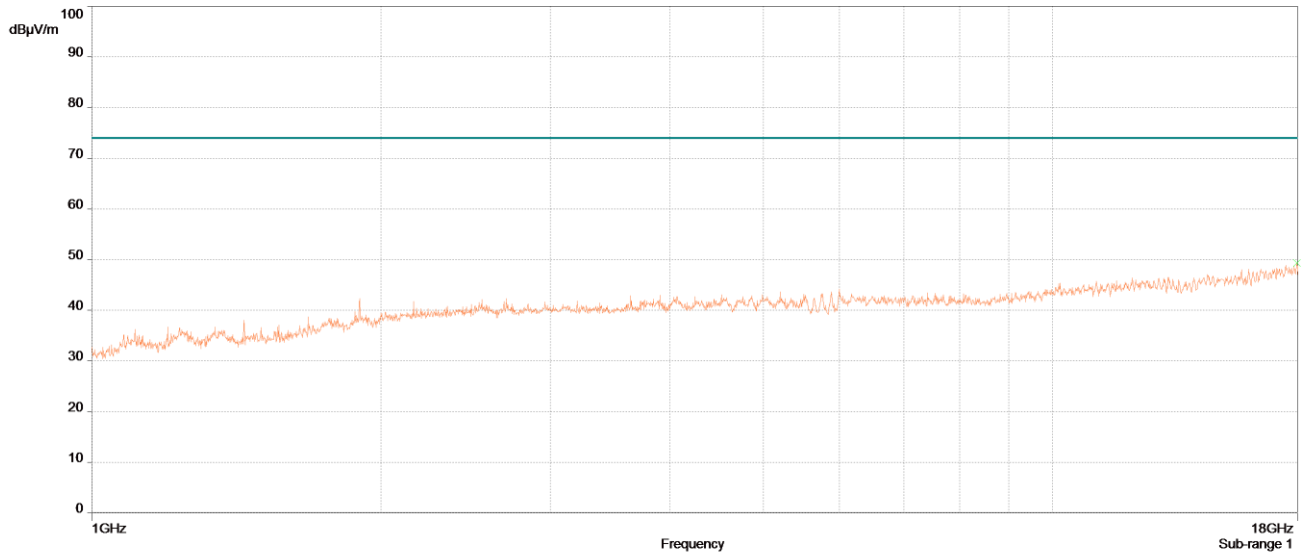
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 High Channel, a mode, Average, (Worst Case Pol)



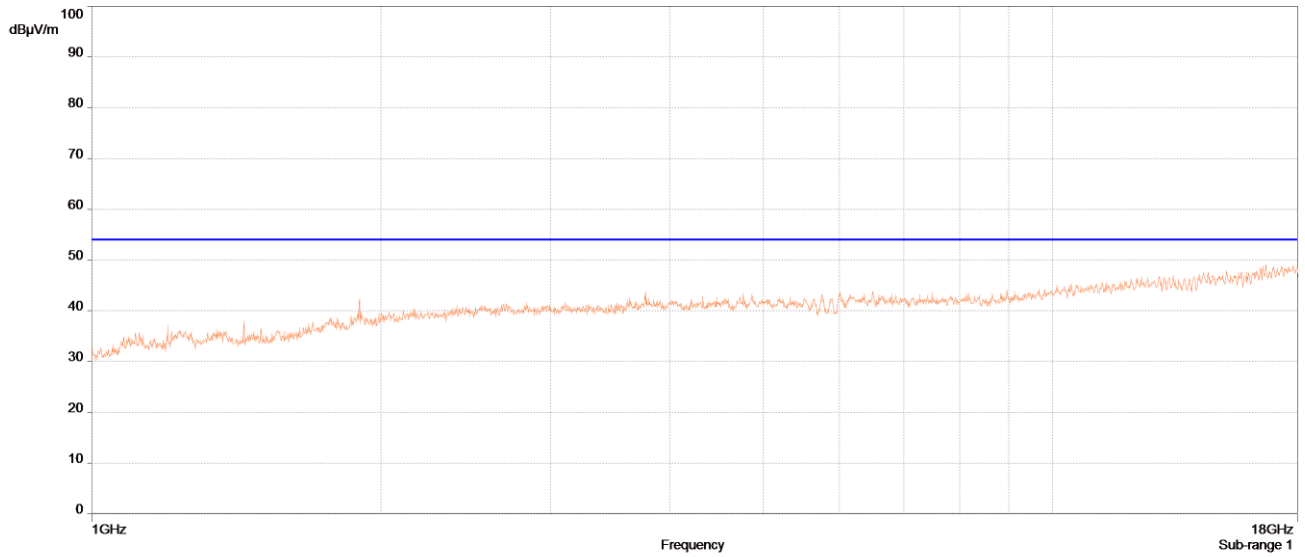
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 High Channel, a mode, Peak, (Worst Case Pol)



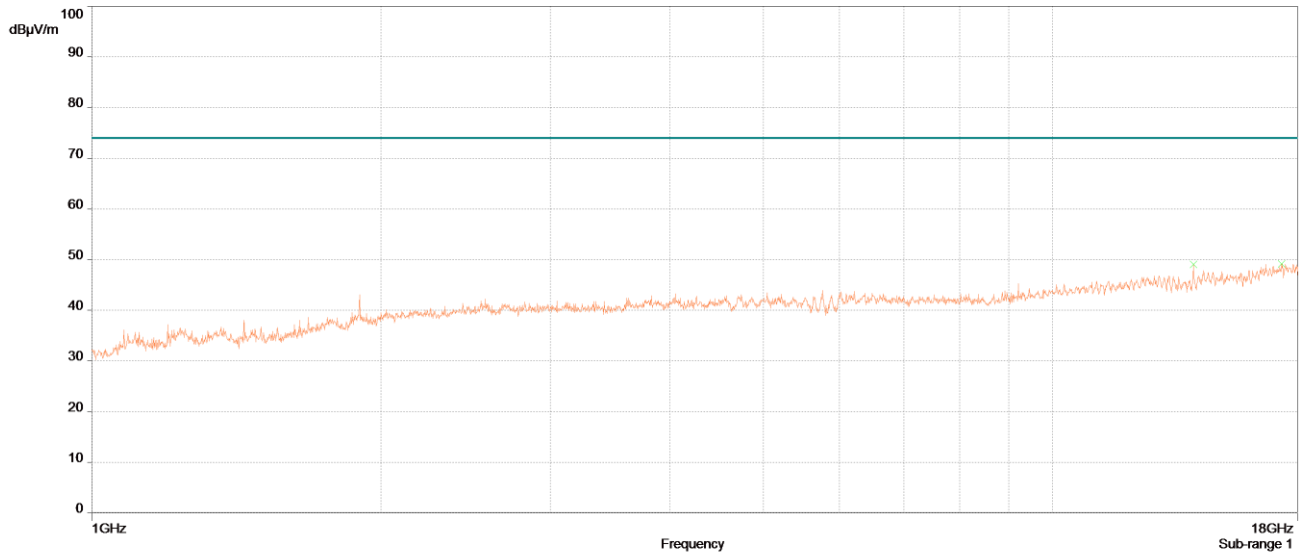
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 High Channel, n mode, Average, (Worst Case Pol)



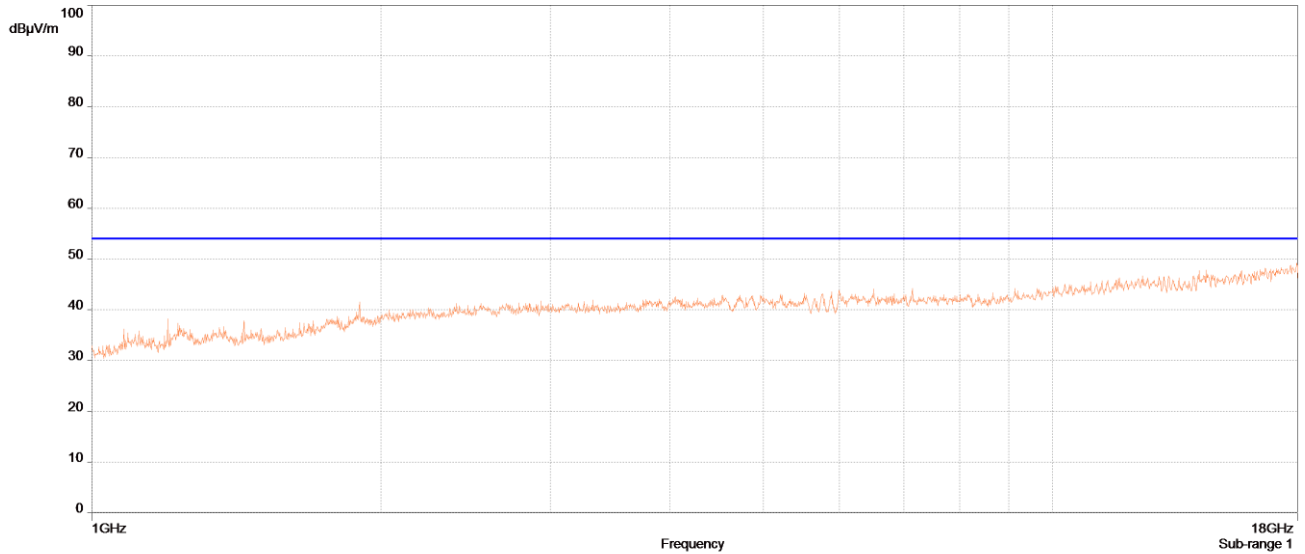
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 High Channel, n mode, Peak, (Worst Case Pol)



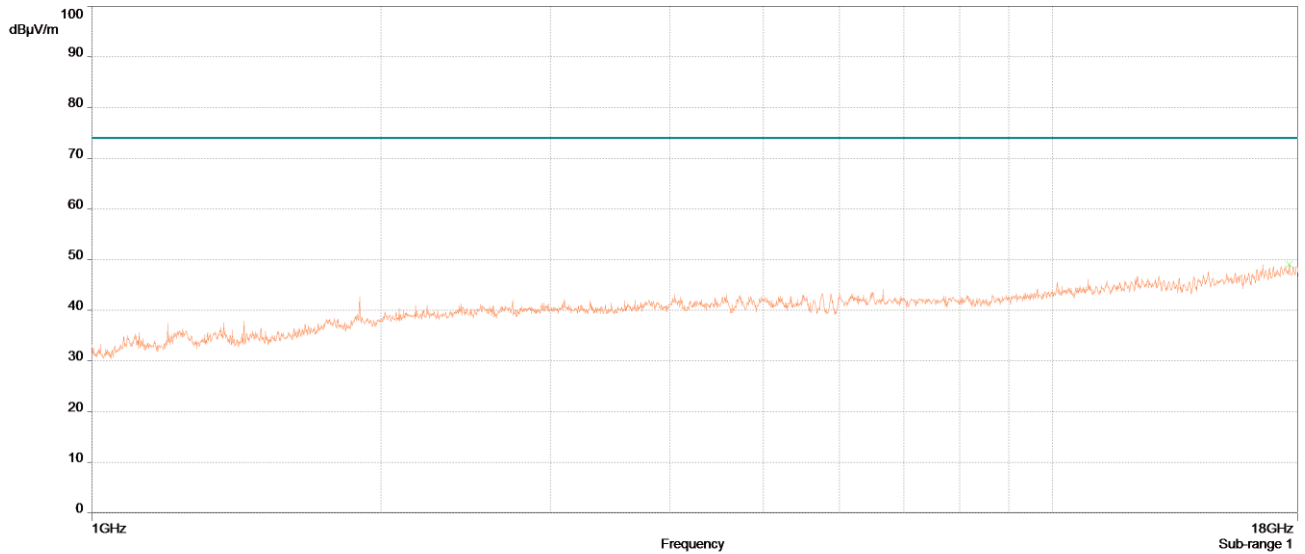
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Low Channel, a mode, Average, (Worst Case Pol)



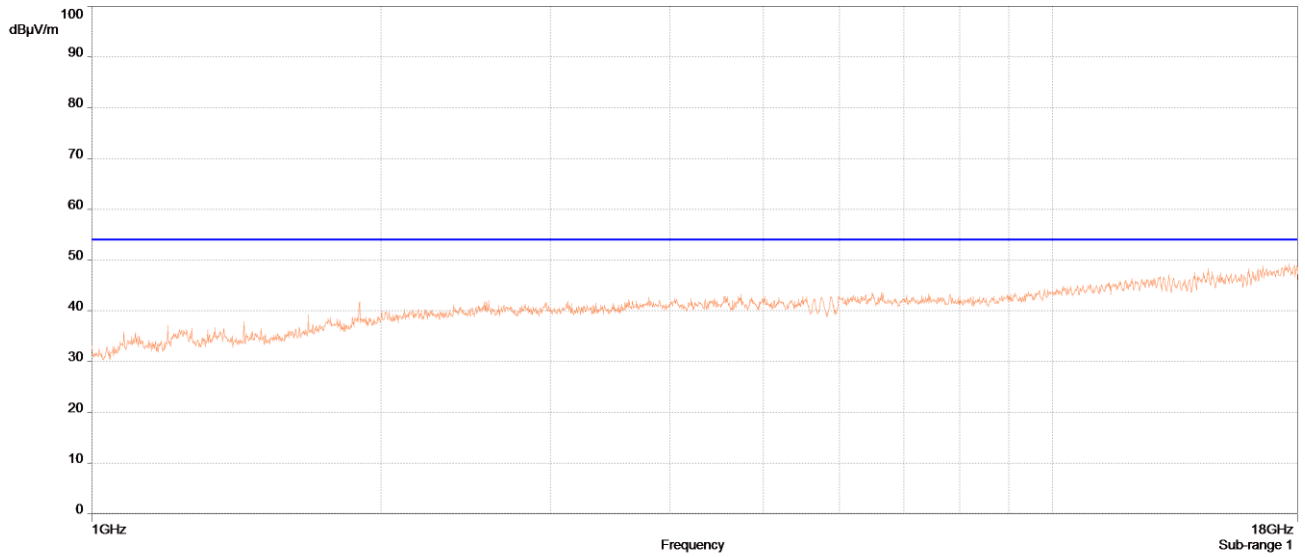
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Low Channel, a mode, Peak, (Worst Case Pol)



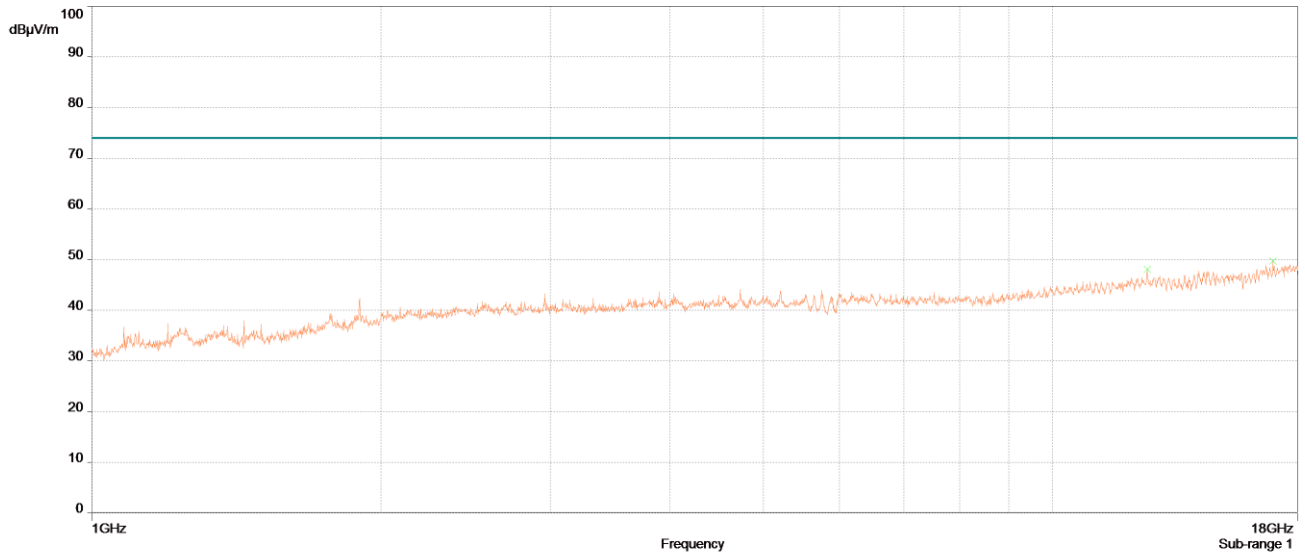
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Mid Channel, a mode, Average, (Worst Case Pol)



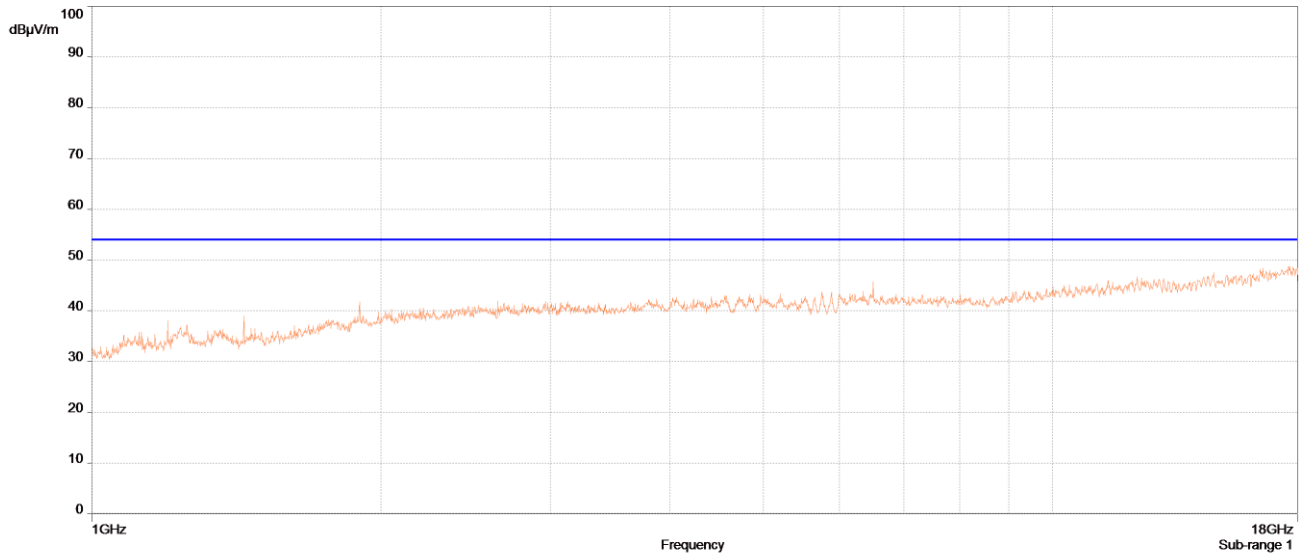
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Mid Channel, a mode, Peak, (Worst Case Pol)



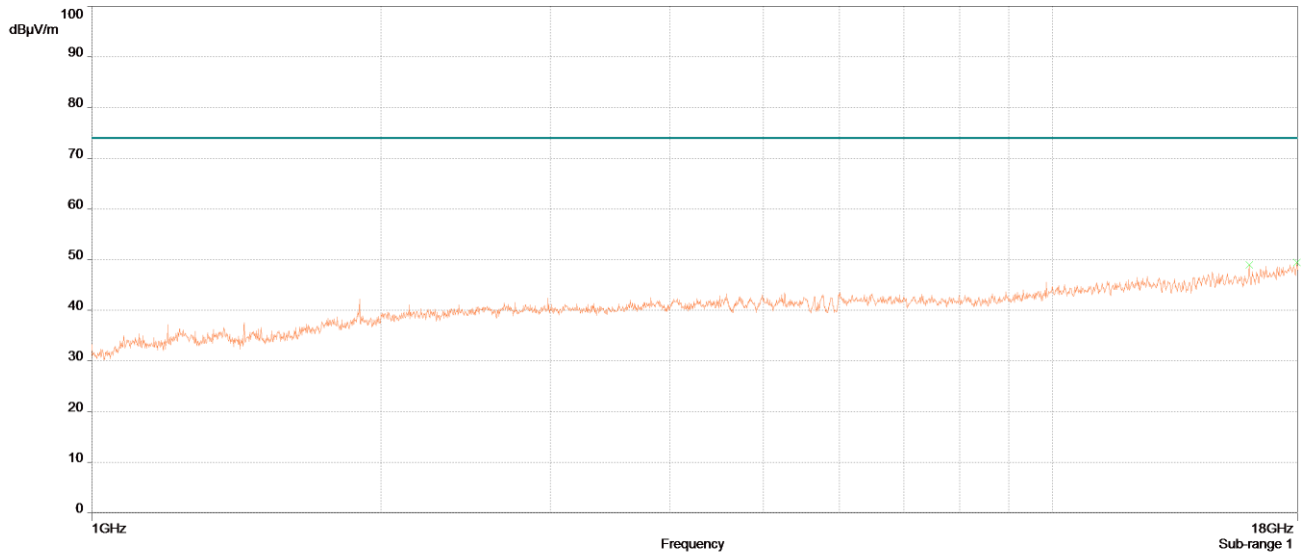
Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Mid Channel, n mode, Average, (Worst Case Pol)



Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Mid Channel, n mode, Peak, (Worst Case Pol)



Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Mid Channel, n mode, Average, (Worst Case Pol)



Radiated Spurious Emissions, 1GHz -18 GHz, UNII-3 Mid Channel, n mode, Peak, (Worst Case Pol)

IV. Test Equipment

Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2399	TURNTABLE/MAST CONTROLLER	SUNOL SCIENCES	SC99V	SEE NOTE 1	SEE NOTE 1
1S2600	BILOG ANTENNA	TESEQ	CBL6112D	03/19/2021	03/19/2022
1S3826	DRG HORN ANTENNA	ETS-LINDGREN	3117	12/03/2020	12/03/2022
1S2003	PXA Signal Analyzer	Keysight	N9030B	09/15/2020	09/15/2021
1S2587	PRE AMPLIFIER	AML COMMUNICATIONS	AML0126L3801	SEE NOTE 1	SEE NOTE 1
1S2653	AMPLIFIER	SONOMA INSTRUMENT	310 N	SEE NOTE 1	SEE NOTE 1
1S2486	5 METER CHAMBER	PANASHIELD - ETS	5M	SEE NOTE 2	SEE NOTE 2
Note 1: Functionally tested equipment is verified using calibrated instrumentation at the time of testing. Note 2: Latest NSA and VSWR data available upon request.					

Test Equipment List

End of Report