



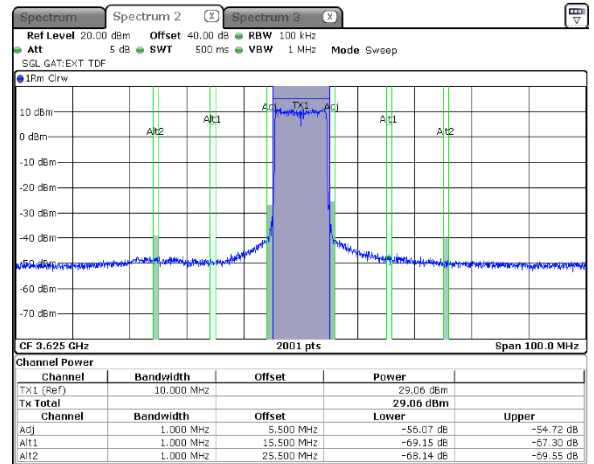
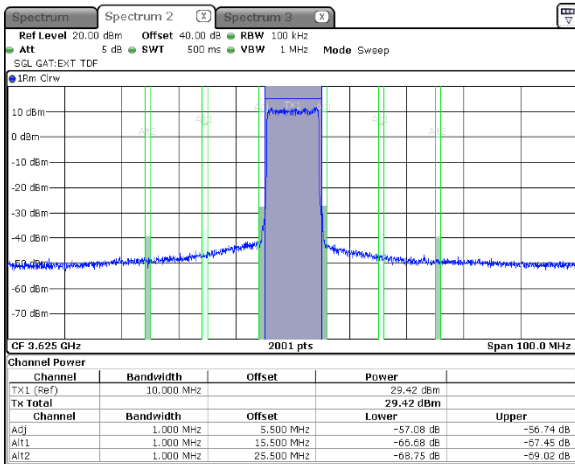
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.9 Emission outside the fundamental test results in 3575 - 3675 GHz range at mid carrier frequency

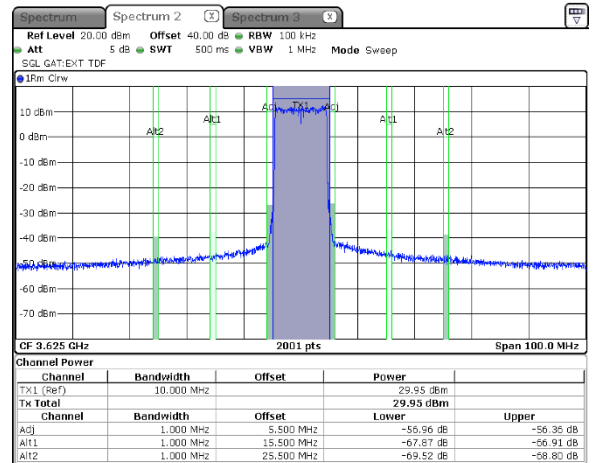
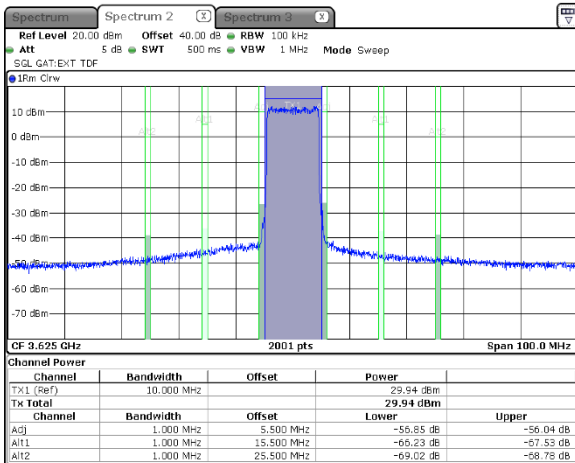
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
10 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





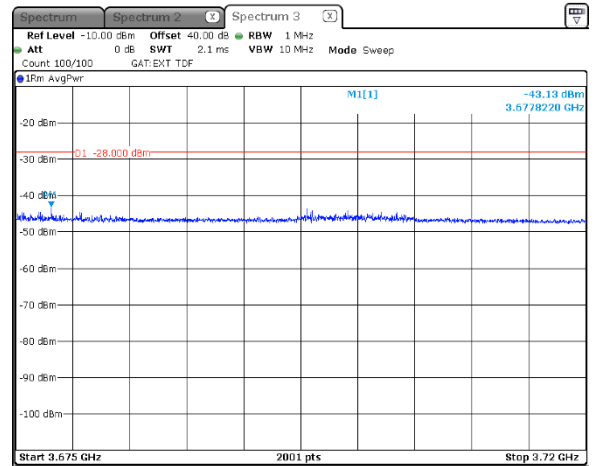
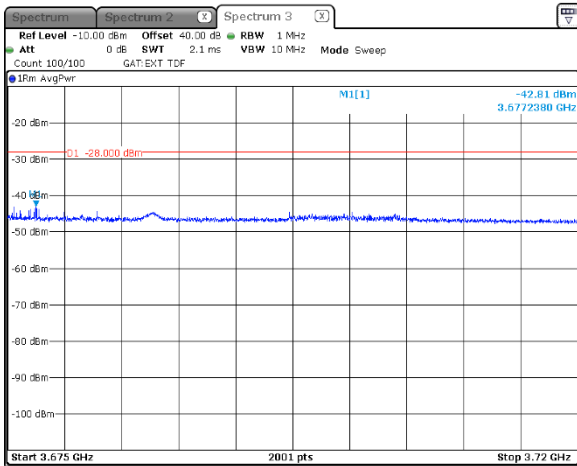
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.10 Emission outside the fundamental test results in 3675 - 3720 GHz range at mid carrier frequency

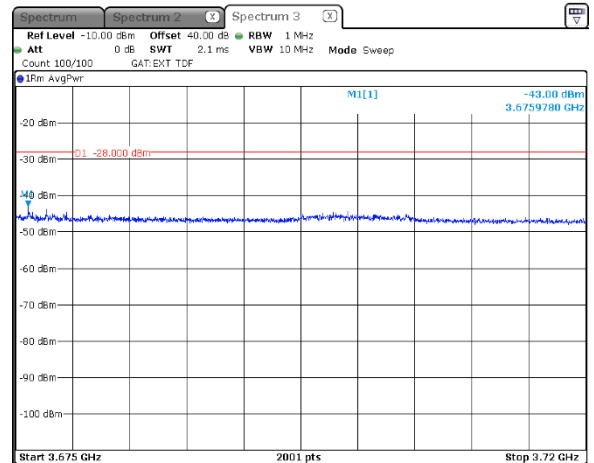
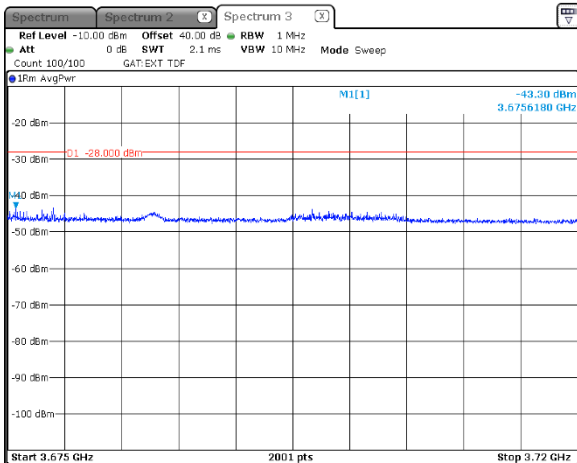
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
10 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





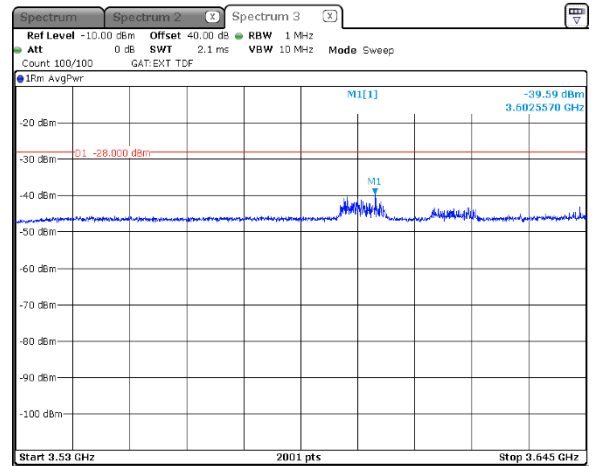
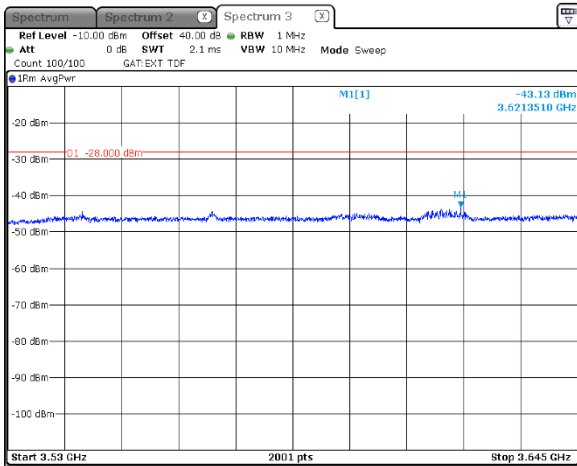
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.11 Emission outside the fundamental test results in 3530 - 3645 GHz range at high carrier frequency

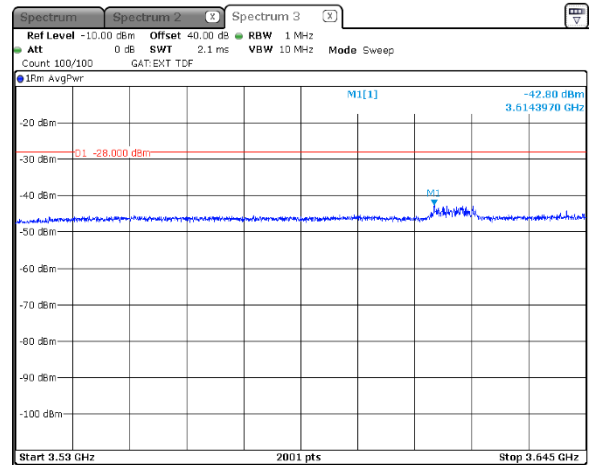
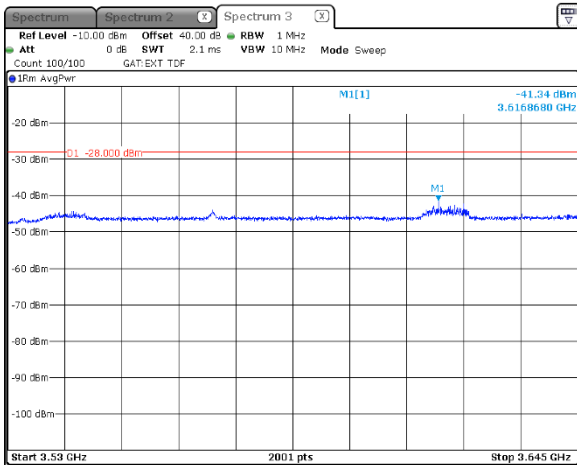
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #2

QPSK  
10 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





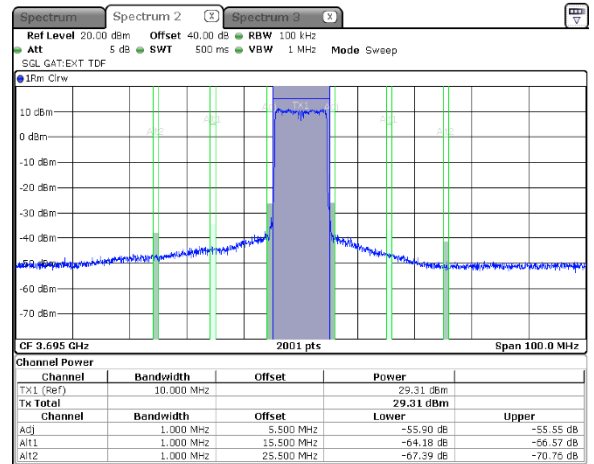
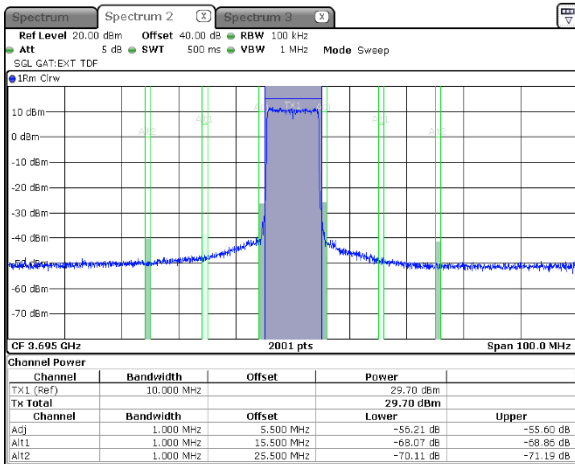
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.12 Emission outside the fundamental test results in 3645 - 3745 GHz range at high carrier frequency

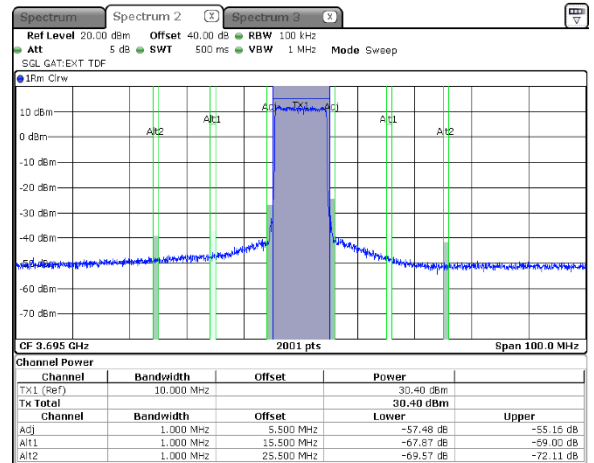
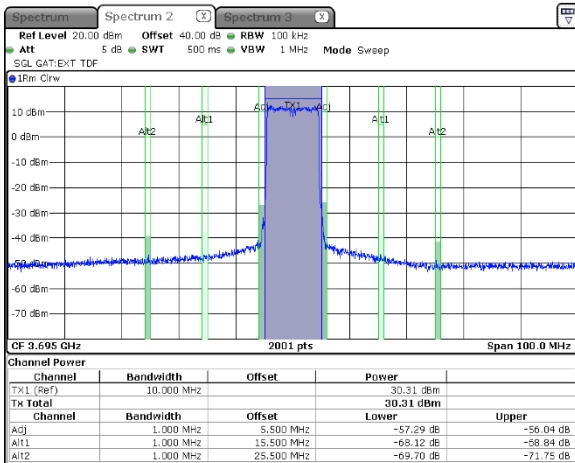
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

QPSK  
10 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





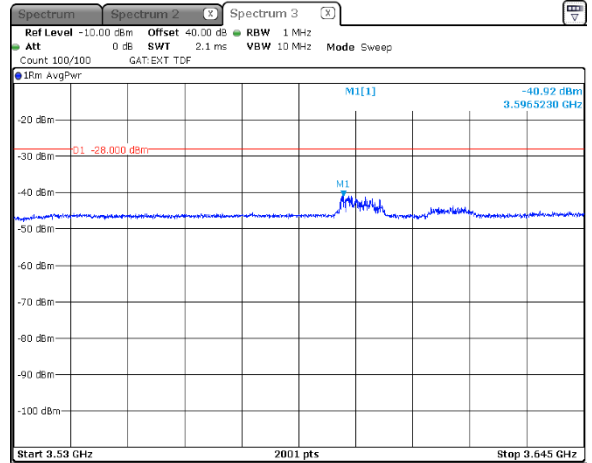
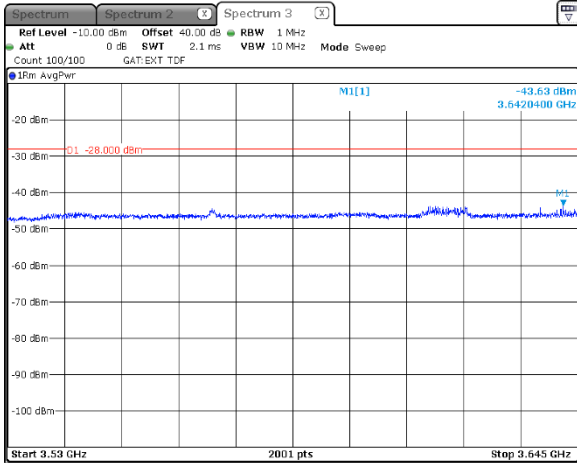
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.13 Emission outside the fundamental test results in 3530 - 3645 GHz range at high carrier frequency

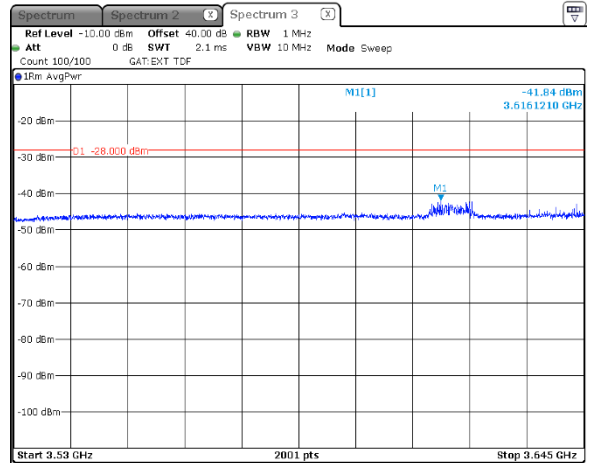
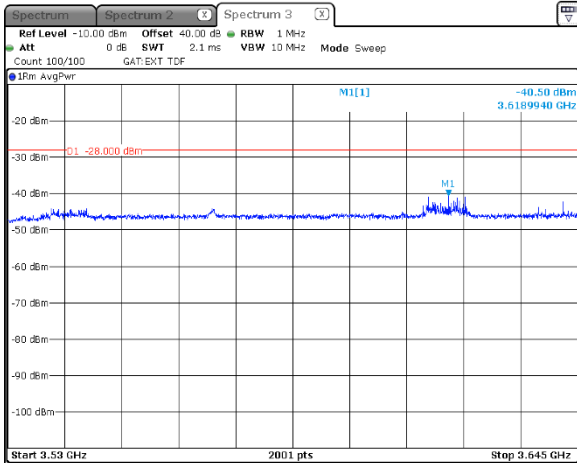
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
10 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





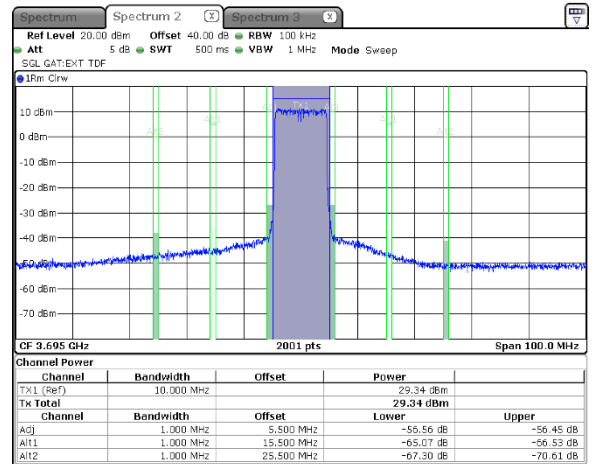
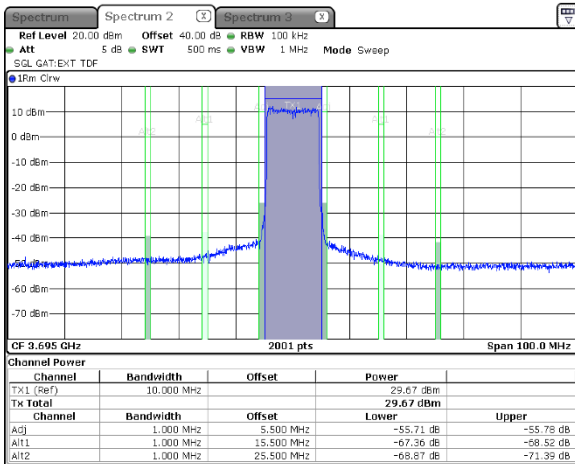
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.14 Emission outside the fundamental test results in 3645 - 3745 GHz range at high carrier frequency

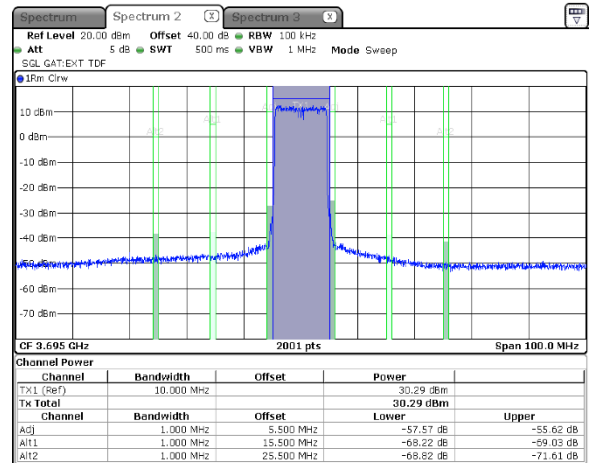
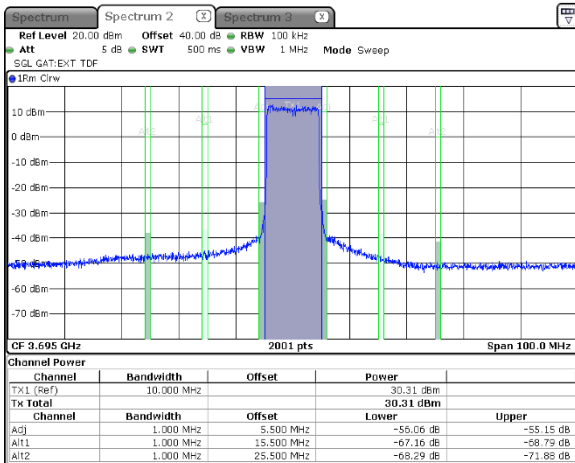
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
10 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





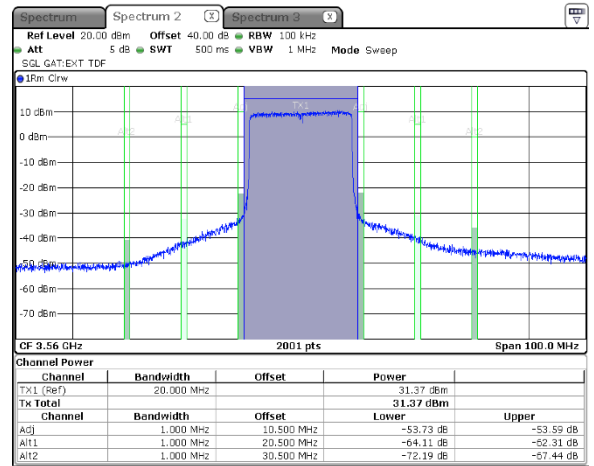
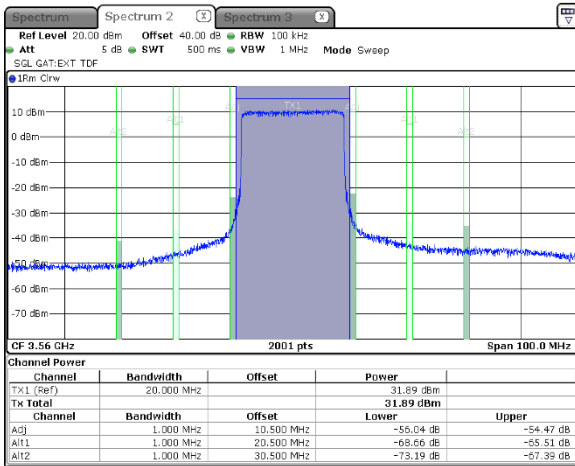
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.15 Emission outside the fundamental test results in 3510 - 3610 GHz range at low carrier frequency

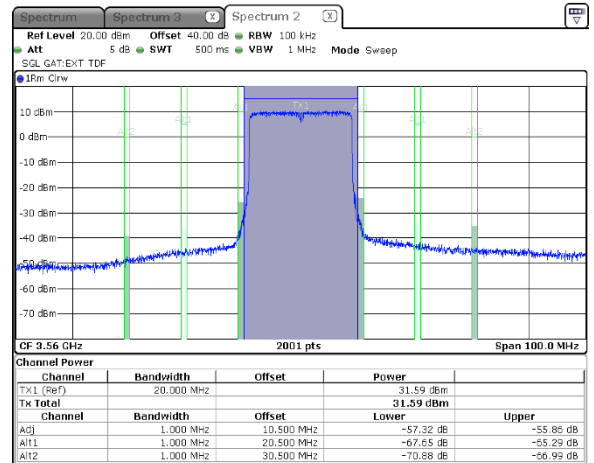
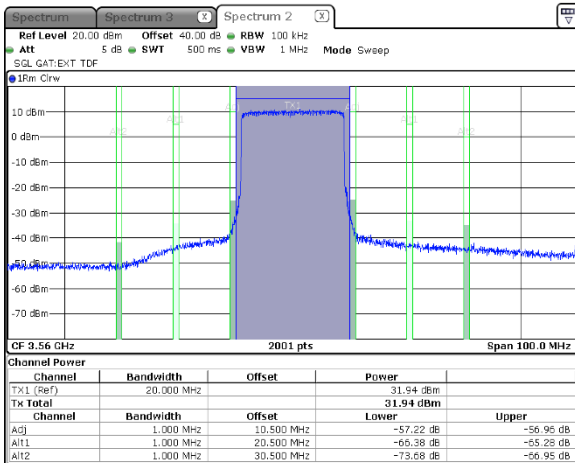
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

QPSK  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





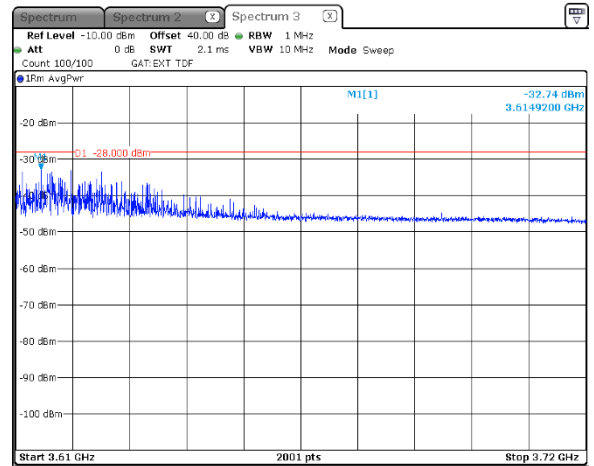
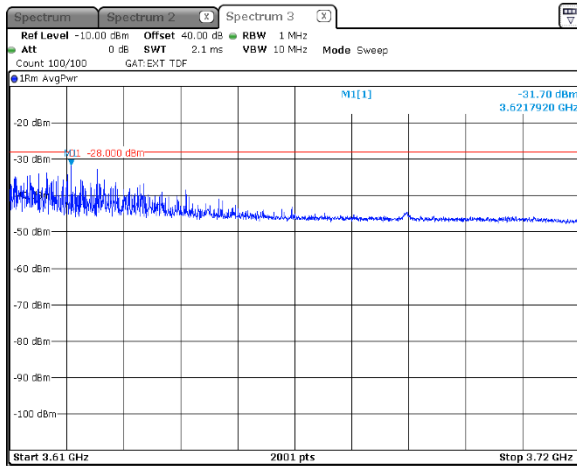
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.16 Emission outside the fundamental test results in 3610 - 3720 GHz range at low carrier frequency

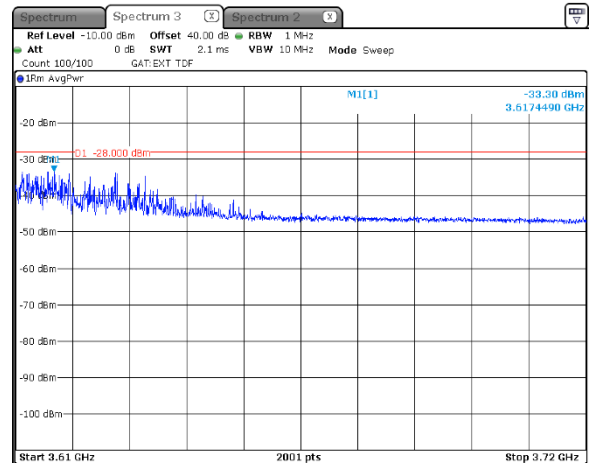
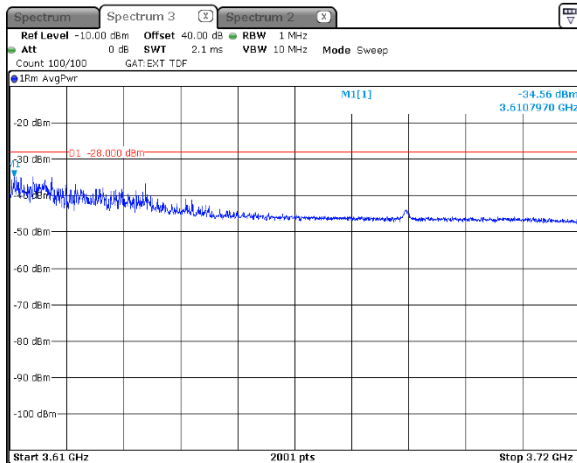
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #2

QPSK  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4







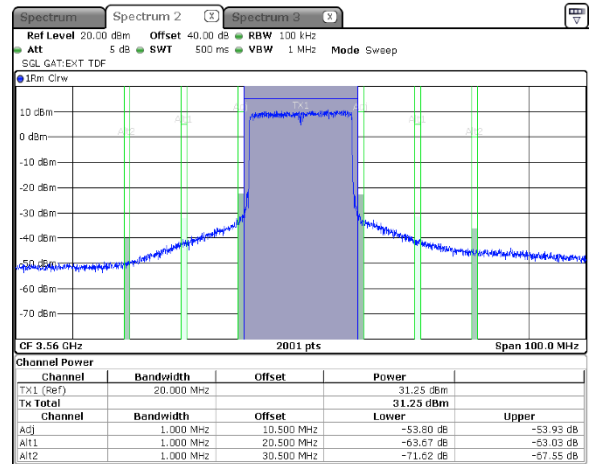
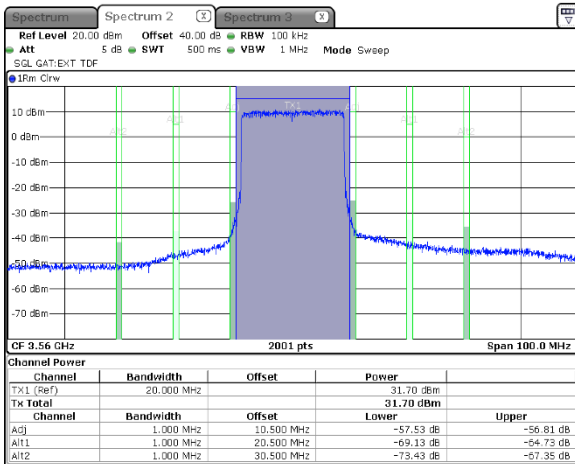
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.17 Emission outside the fundamental test results in 3510 - 3610 GHz range at low carrier frequency

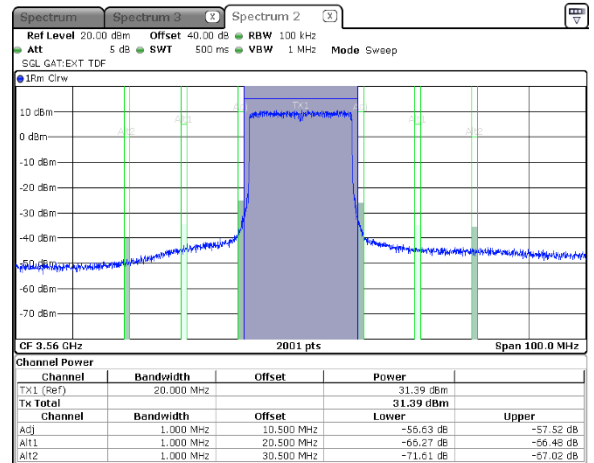
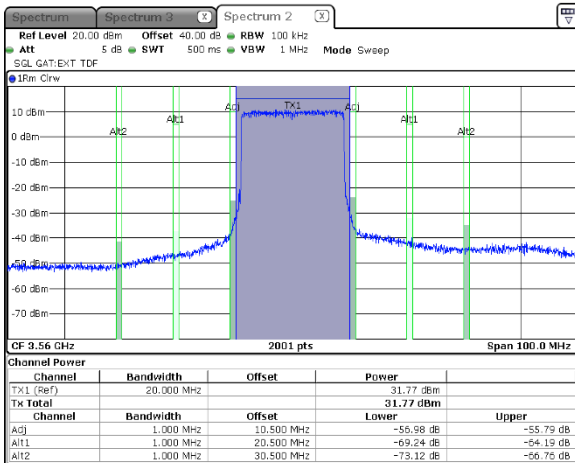
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





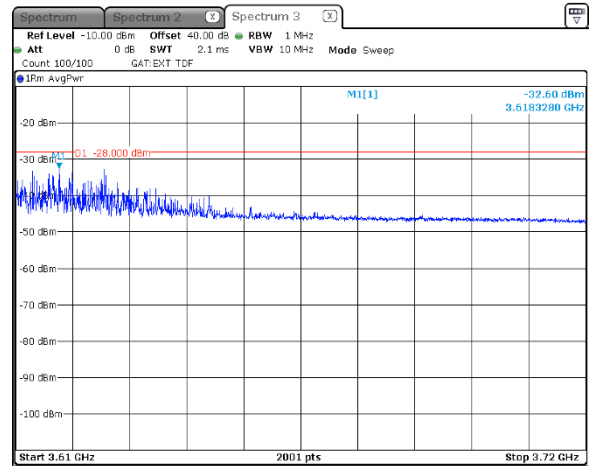
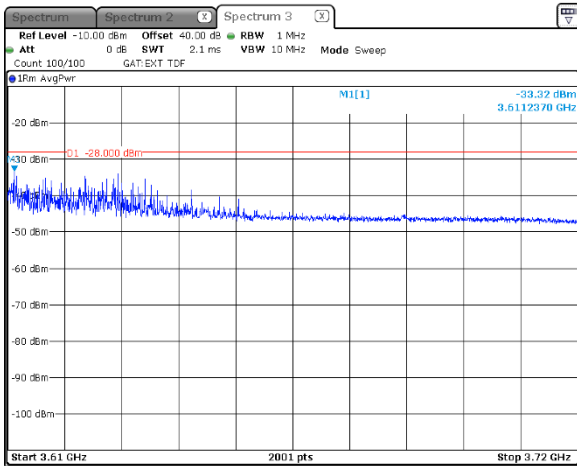
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.18 Emission outside the fundamental test results in 3610 - 3720 GHz range at low carrier frequency

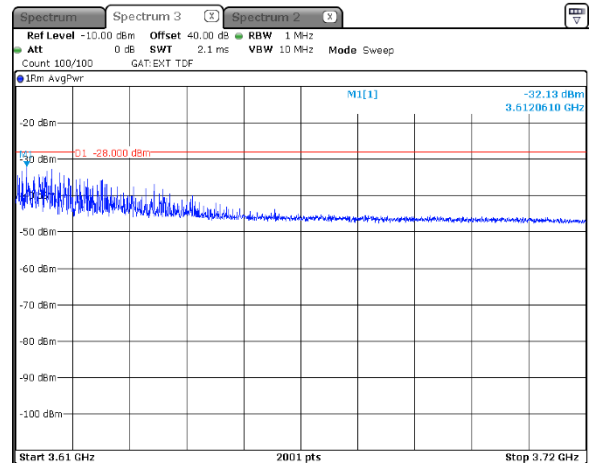
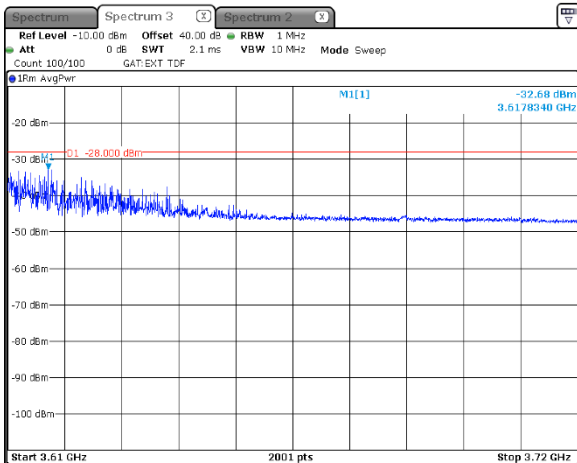
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #2

64QAM  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





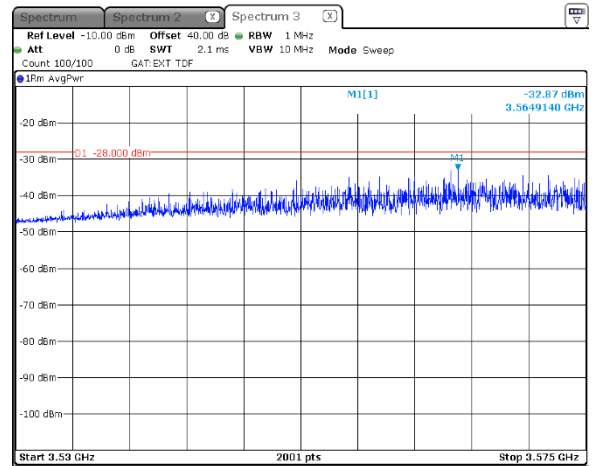
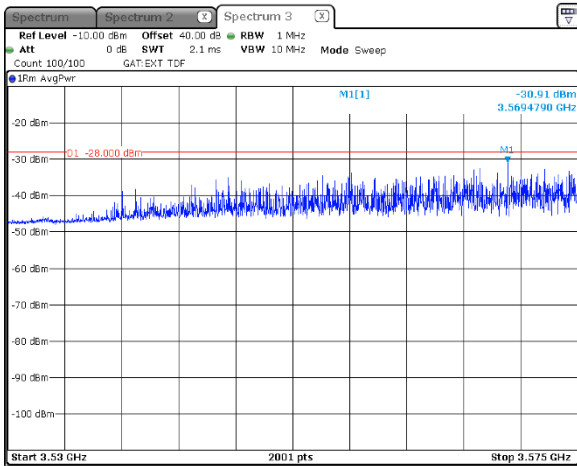
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.19 Emission outside the fundamental test results in 3530 - 3575 GHz range at mid carrier frequency

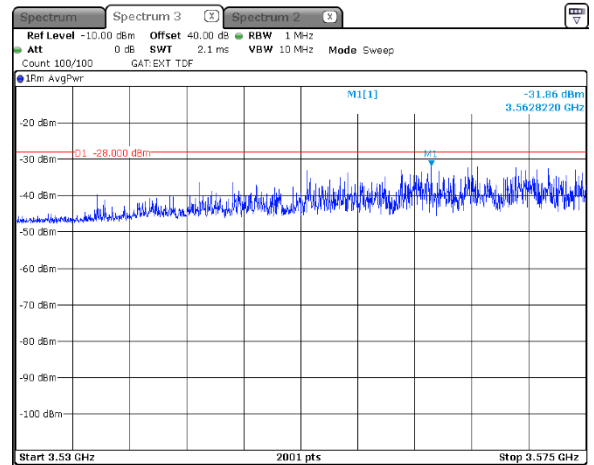
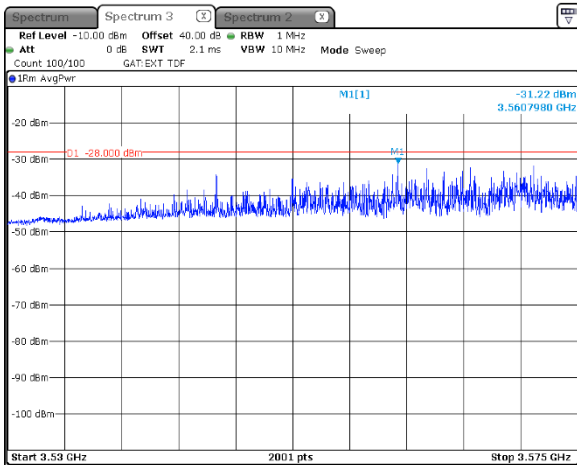
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #2

QPSK  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





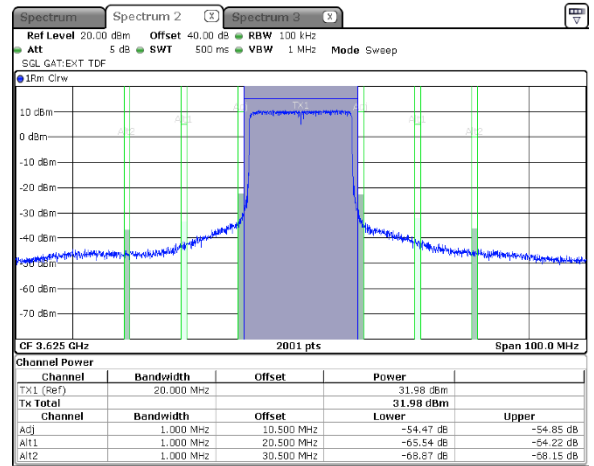
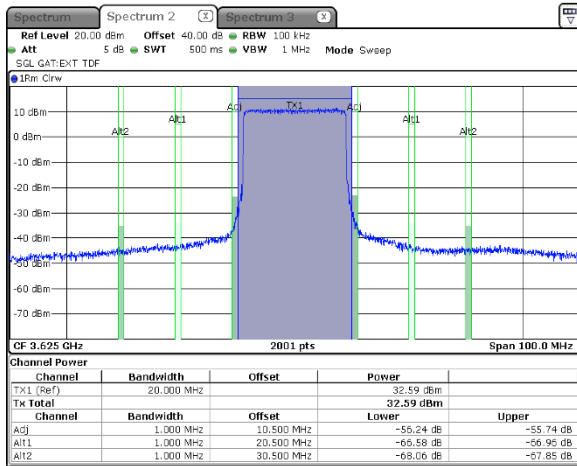
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.20 Emission outside the fundamental test results in 3575 - 3675 GHz range at mid carrier frequency

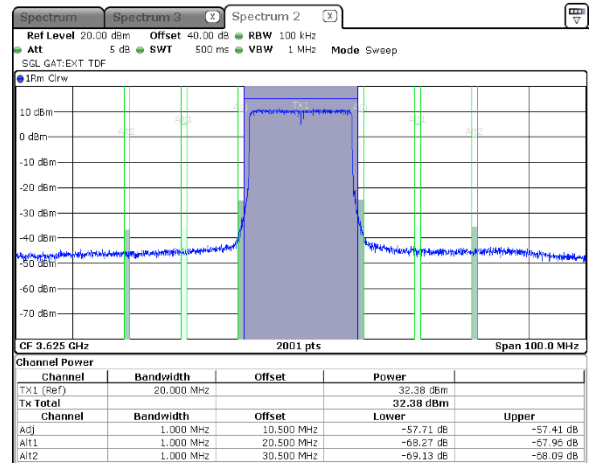
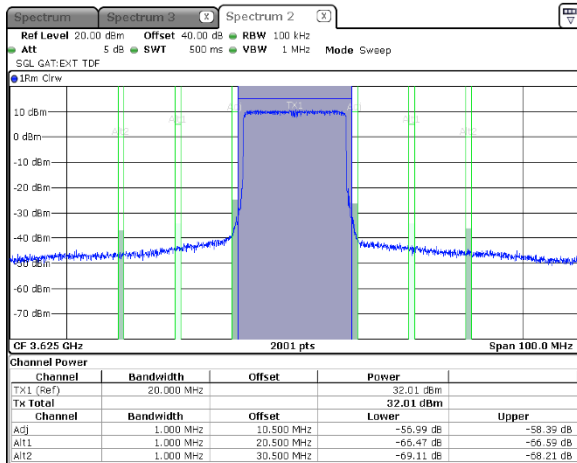
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

QPSK  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





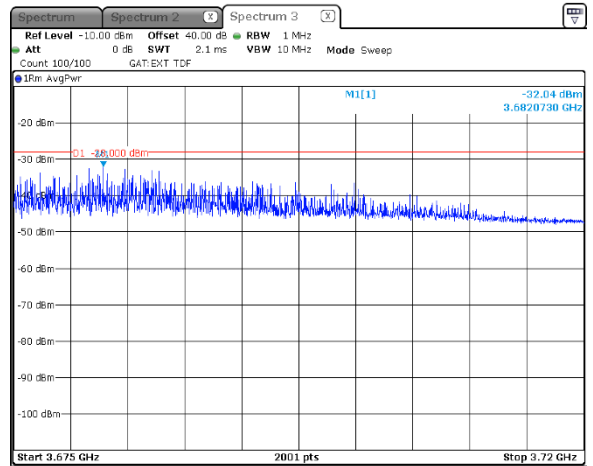
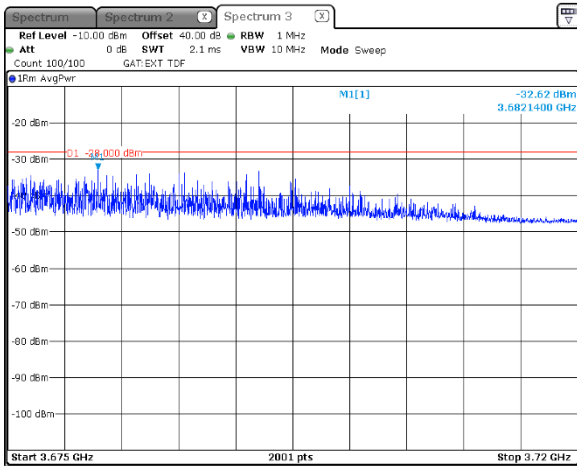
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.21 Emission outside the fundamental test results in 3675 - 3720 GHz range at mid carrier frequency

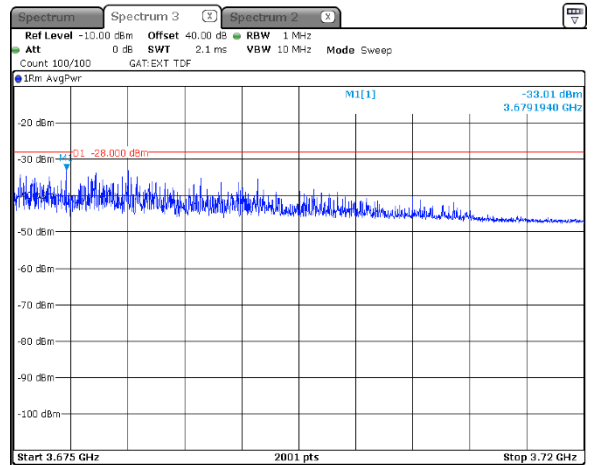
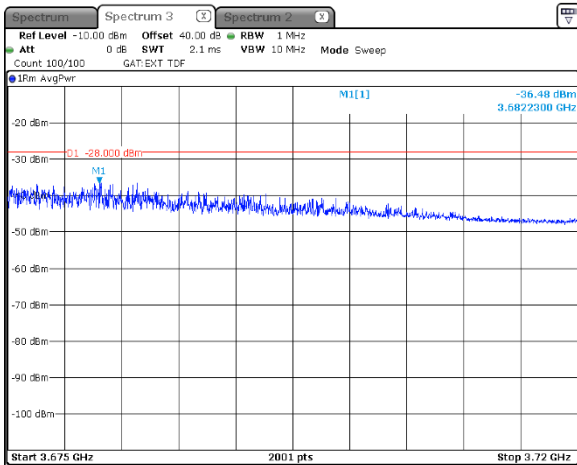
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

QPSK  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





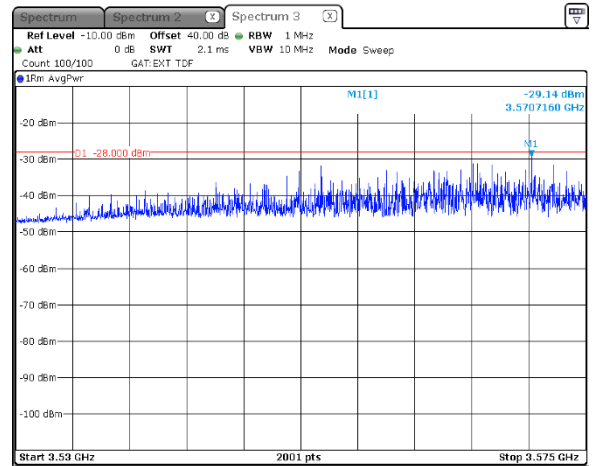
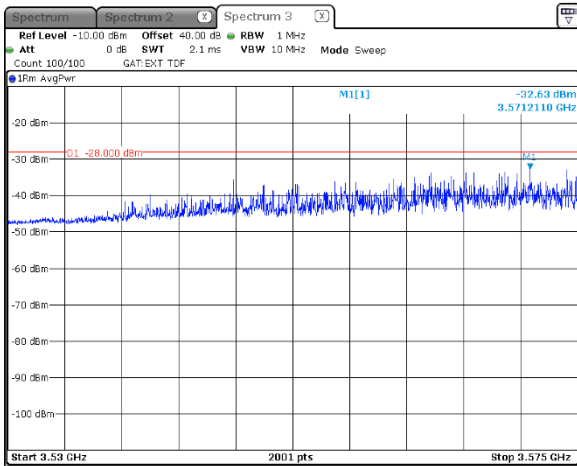
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.22 Emission outside the fundamental test results in 3530 - 3575 GHz range at mid carrier frequency**

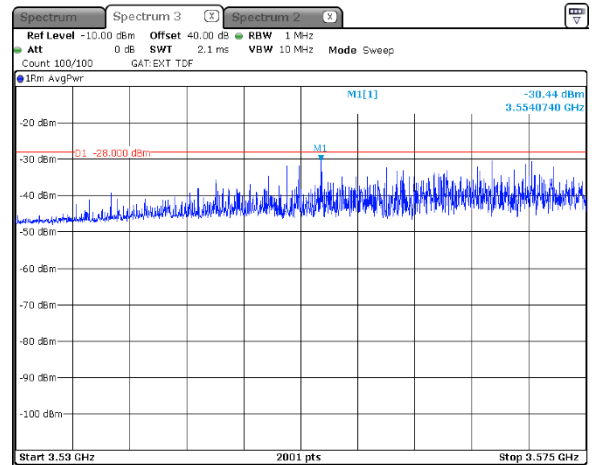
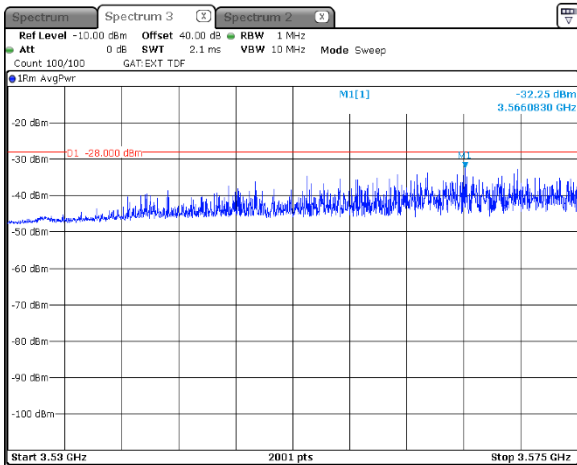
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





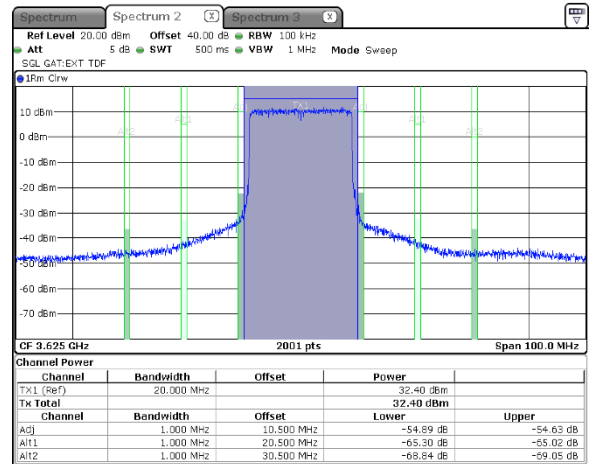
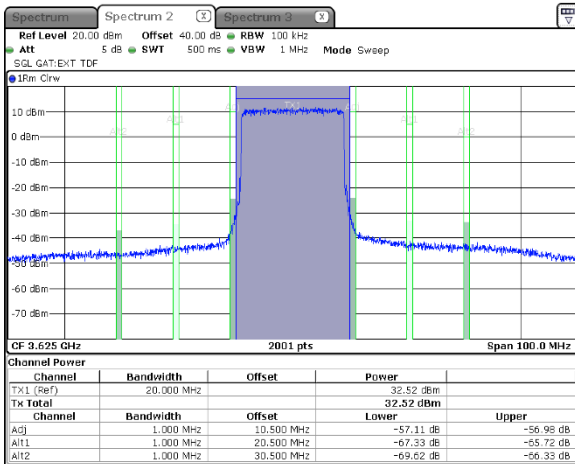
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.23 Emission outside the fundamental test results in 3575 - 3675 GHz range at mid carrier frequency

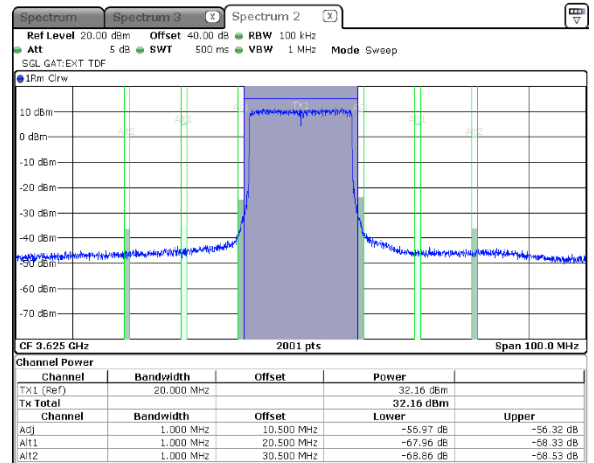
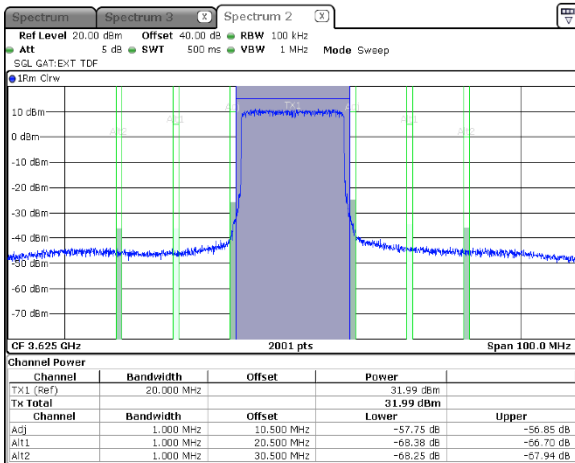
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





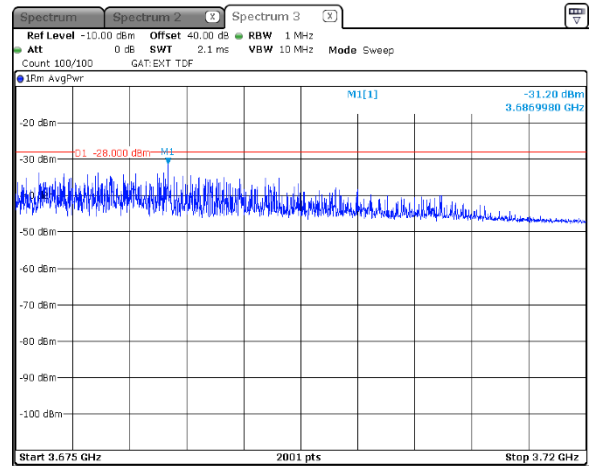
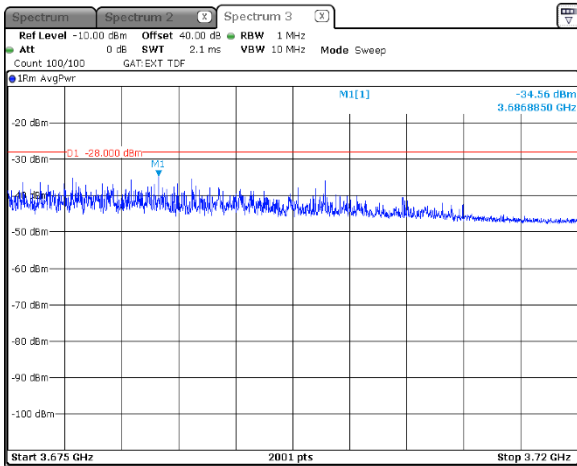
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.24 Emission outside the fundamental test results in 3675 - 3720 GHz range at mid carrier frequency

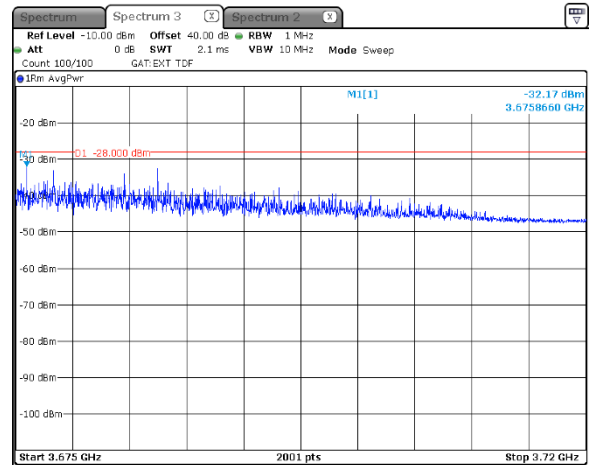
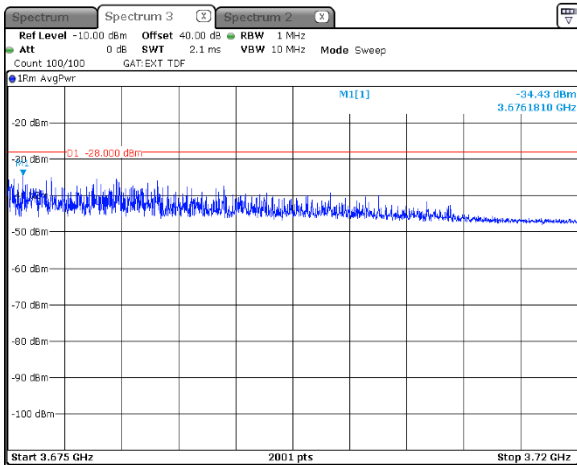
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #2

64QAM  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4







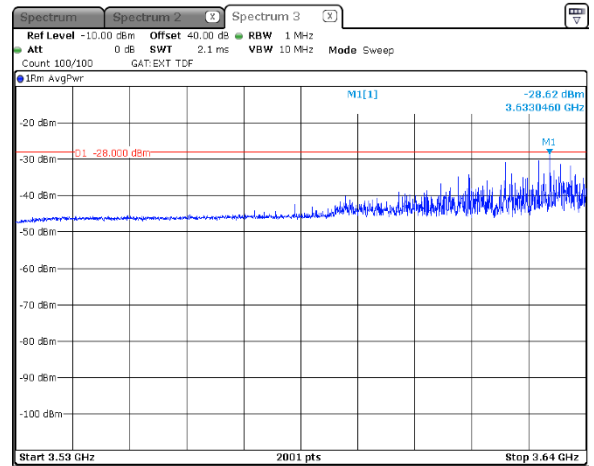
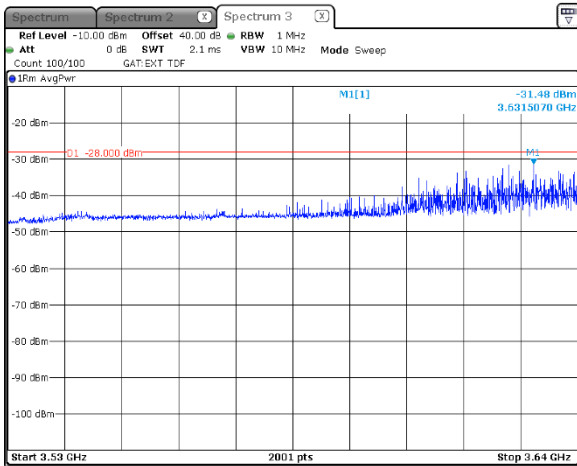
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.25 Emission outside the fundamental test results in 3530 – 3640 GHz range at high carrier frequency

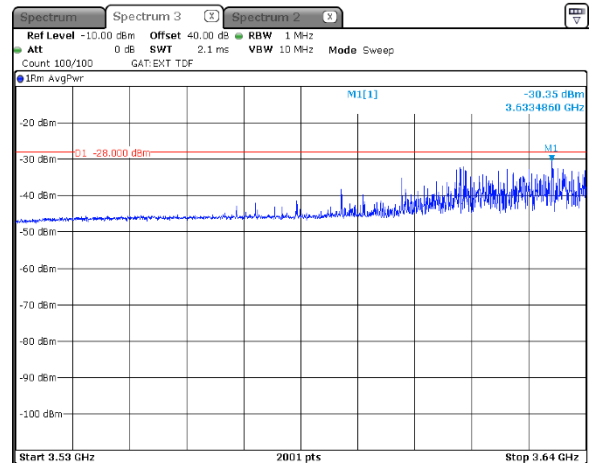
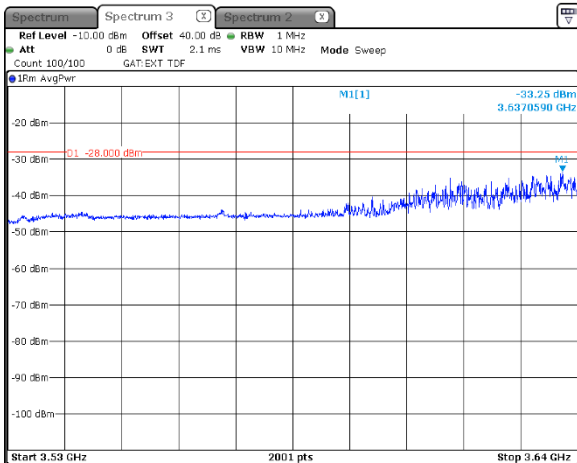
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #2

QPSK  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





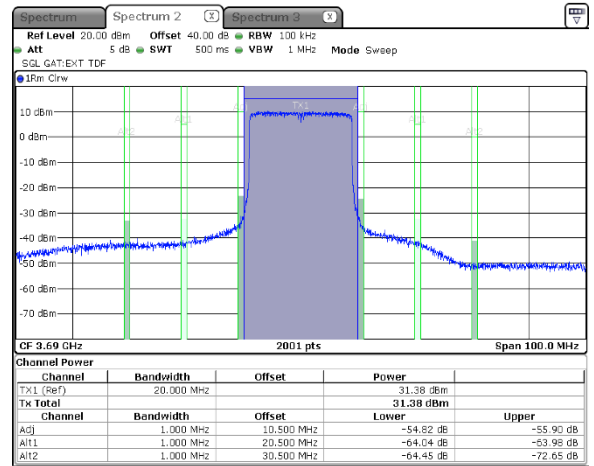
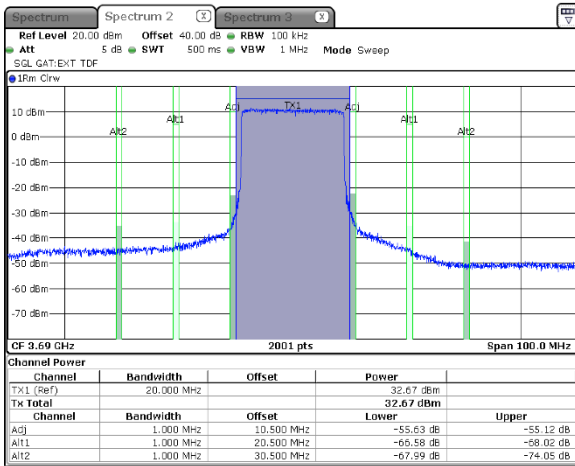
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.26 Emission outside the fundamental test results in 3640 - 3740 GHz range at high carrier frequency

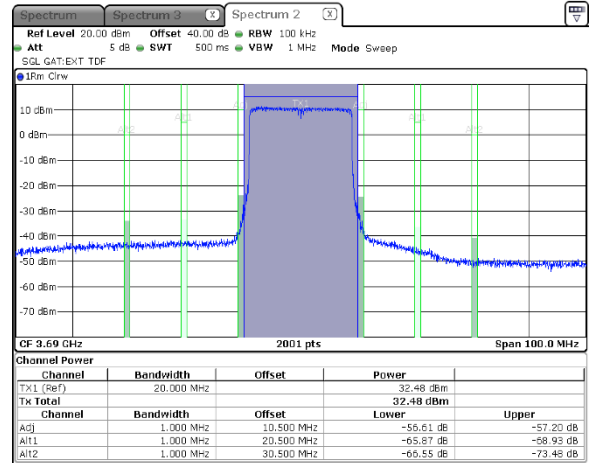
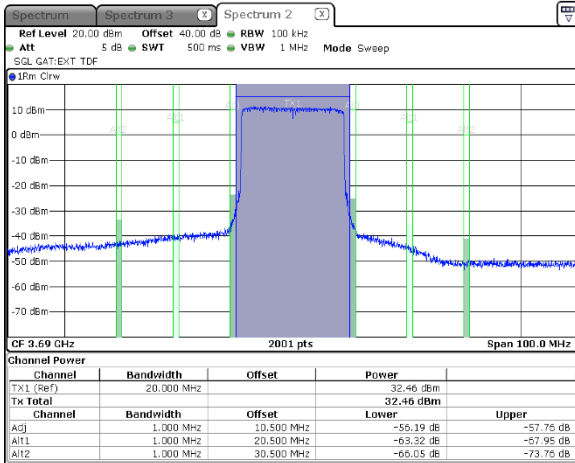
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

QPSK  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





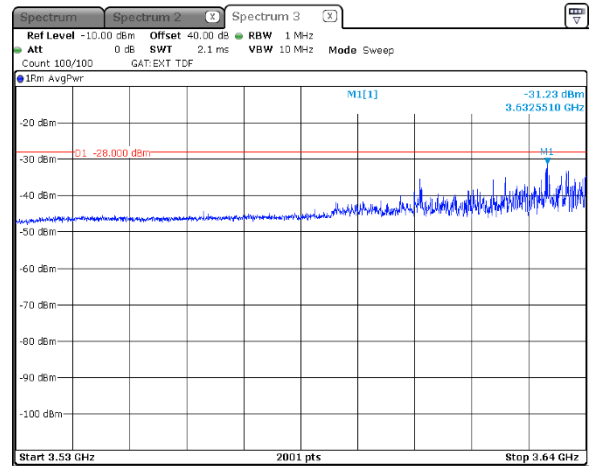
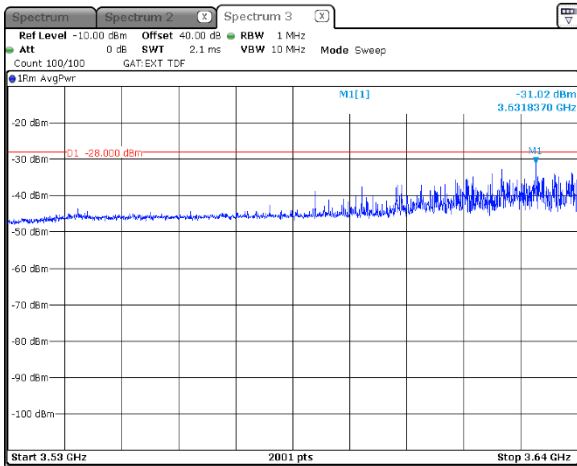
HERMON LABORATORIES

<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.27 Emission outside the fundamental test results in 3530 - 3640 GHz range at high carrier frequency

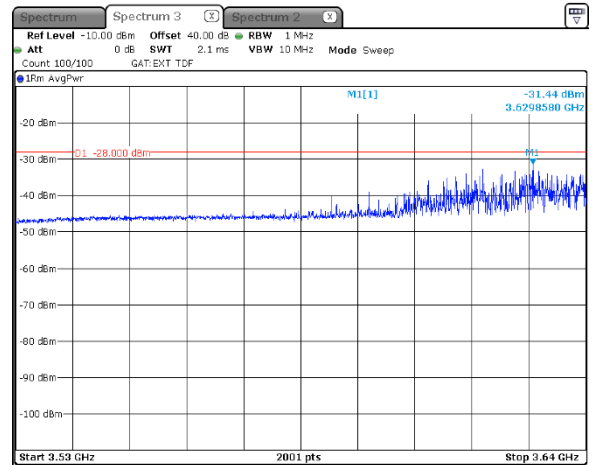
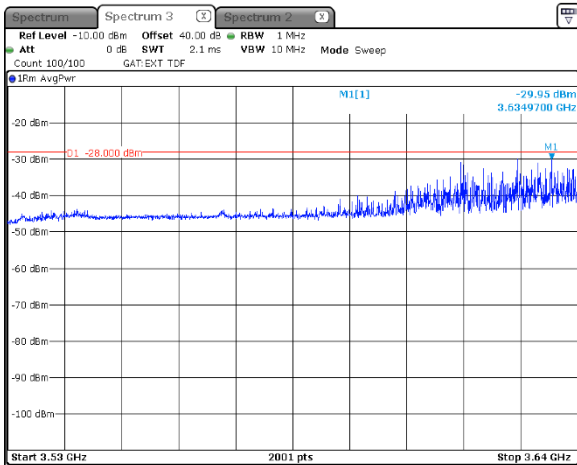
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4



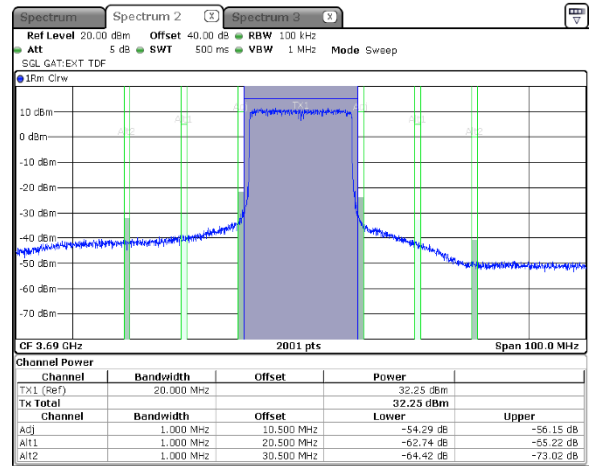


<b>Test specification:</b> Section 96.41(e), Emission mask			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jul-20			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 49 %	<b>Air Pressure:</b> 1010 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.28 Emission outside the fundamental test results in 3640 - 3740 GHz range at high carrier frequency

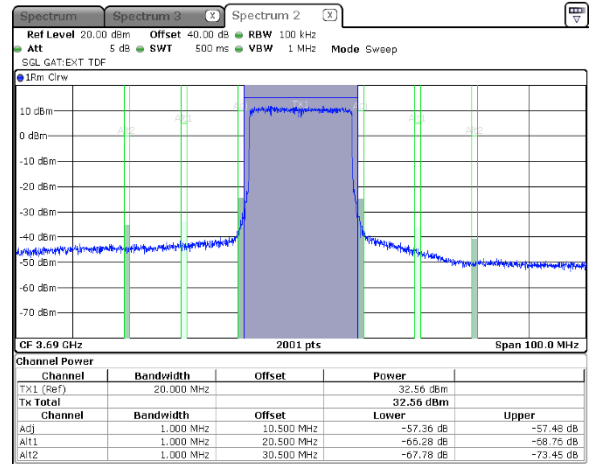
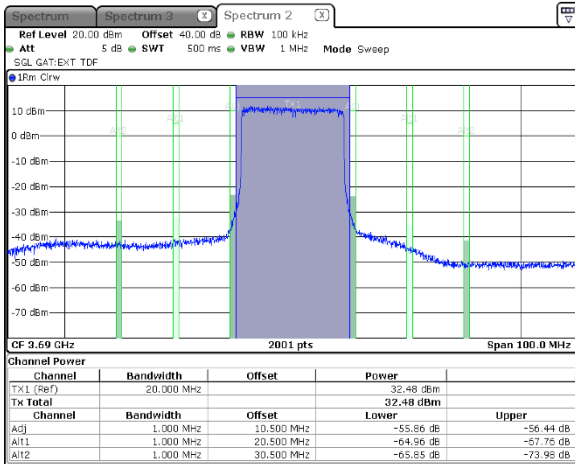
MODULATION:  
CHANNEL SPACING:  
ANTENNA CHAIN: #1

64QAM  
20 MHz  
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4





<b>Test specification: Section 96.41(e)(2), Radiated spurious emissions</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 20-Apr-20			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 52 %	<b>Air Pressure:</b> 1011 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

## 7.5 Radiated spurious emission measurements

### 7.5.1 General

This test was performed to measure radiated spurious emissions from the EUT. Specification test limits are given in Table 7.5.1.

**Table 7.5.1 Radiated spurious emission test limits**

Frequency, MHz	EIRP of spurious, dBm	Equivalent field strength limit @ 3m, dB( $\mu$ V/m) <sup>***</sup>
0.09 – below 3530.0	-40.0	55.2
3720.0 – 10th harmonic*	-40.0	55.2

<sup>\*\*\*</sup> - Equivalent field strength limit was calculated from maximum allowed ERP of spurious as follows:  $E = \sqrt{30 \times P \times 1.64} / r$ , where P is ERP in Watts, 1.64 is numeric gain of ideal dipole and r is antenna to EUT distance in meters

### 7.5.2 Test procedure for spurious emission field strength measurements in 9 kHz to 30 MHz band

**7.5.2.1** The EUT was set up as shown in Figure 7.5.1, energized and the performance check was conducted.

**7.5.2.2** The specified frequency range was investigated with antenna connected to spectrum analyzer. To find maximum radiation the turntable was rotated 360° and the measuring antenna was rotated around its vertical axis.

**7.5.2.3** The worst test results (the lowest margins) were recorded in Table 7.5.2 and shown in the associated plots.

### 7.5.3 Test procedure for spurious emission field strength measurements above 30 MHz

**7.5.3.1** The EUT was set up as shown in Figure 7.5.2, energized and the performance check was conducted.

**7.5.3.2** The specified frequency range was investigated with antenna connected to spectrum analyzer. To find maximum radiation the turntable was rotated 360° and the measuring antenna height was swept from 1 to 4 m in both, vertical and horizontal, polarizations.

**7.5.3.3** The worst test results (the lowest margins) were recorded in Table 7.5.2 and shown in the associated plots.



<b>Test specification: Section 96.41(e)(2), Radiated spurious emissions</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 20-Apr-20			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 52 %	<b>Air Pressure:</b> 1011 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Figure 7.5.1 Setup for spurious emission field strength measurements in 9 kHz to 30 MHz band

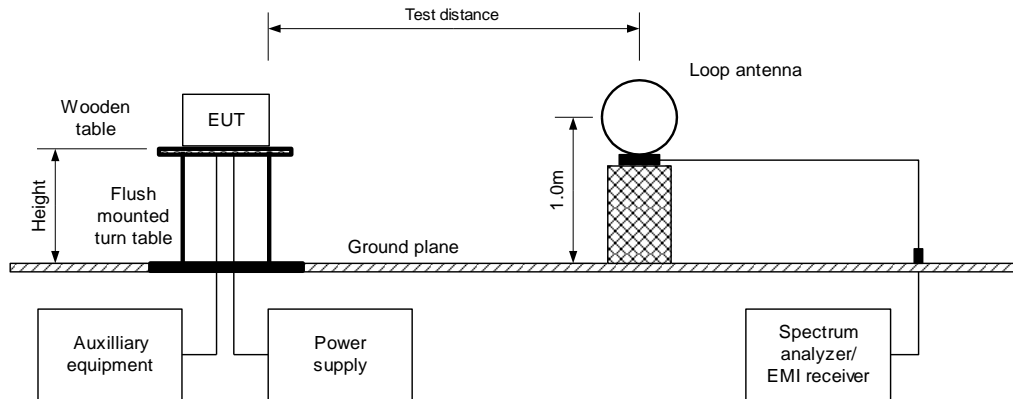
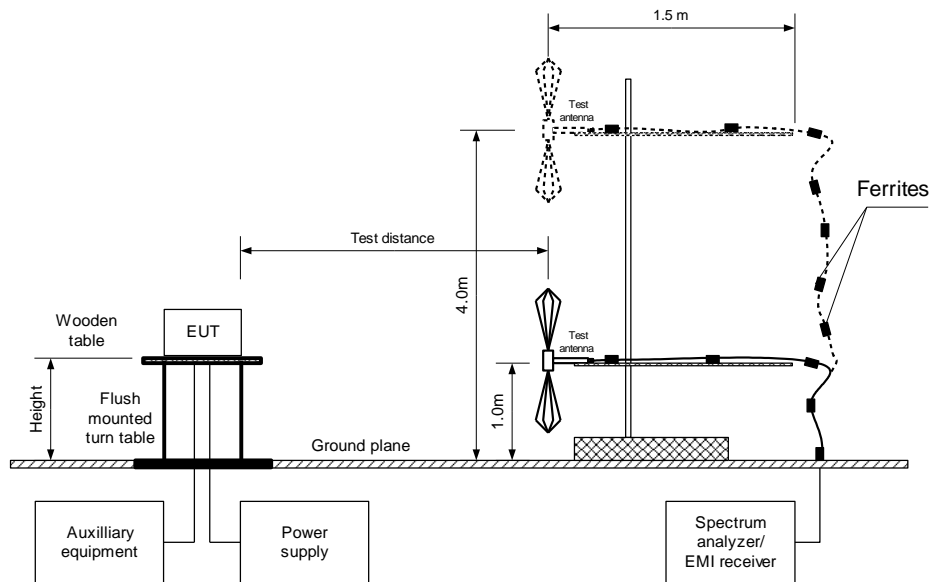


Figure 7.5.2 Setup for spurious emission field strength measurements above 30 MHz





<b>Test specification: Section 96.41(e)(2), Radiated spurious emissions</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 20-Apr-20			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 52 %	<b>Air Pressure:</b> 1011 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Table 7.5.2 Spurious emission field strength test results

ASSIGNED FREQUENCY RANGE: 3550 - 3700 MHz  
TEST DISTANCE: 3 m  
TEST SITE: Semi anechoic chamber  
INVESTIGATED FREQUENCY RANGE: 0.009 – 1000 MHz  
DETECTOR USED: Peak  
VIDEO BANDWIDTH: > Resolution bandwidth  
TEST ANTENNA TYPE: Active loop (9 kHz – 30 MHz)  
Biconilog (30 MHz – 1000 MHz)  
MODULATION: QPSK  
MODULATING SIGNAL: PRBS  
TRANSMITTER OUTPUT POWER SETTINGS: Maximum

Frequency, MHz	Field strength, dB( $\mu$ V/m)	Limit, dB( $\mu$ V/m)	Margin, dB*	RBW, kHz	Antenna polarization	Antenna height, m	Turn-table position**, degrees
113.084	46.85	55.20	-8.35	100	V	1.02	-55.0
127.536	50.33	55.20	-4.87	100	V	1.04	12.0
140.511	32.49	55.20	-22.71	100	V	1.00	59.0
168.888	38.80	55.20	-16.40	100	H	1.75	-171.0
325.013	32.91	55.20	-22.29	100	V	1.75	-166.0
374.982	46.85	55.20	-8.35	100	V	1.02	-55.0

\*- Margin = Field strength of spurious – calculated field strength limit.

\*\* - EUT front panel refers to 0 degrees position of turntable.



<b>Test specification: Section 96.41(e)(2), Radiated spurious emissions</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 20-Apr-20			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 52 %	<b>Air Pressure:</b> 1011 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Table 7.5.3 Field strength of spurious emissions above 1 GHz within restricted bands**

ASSIGNED FREQUENCY RANGE: 3550 - 3700 MHz  
 TEST DISTANCE: 3 m  
 TEST SITE: Semi anechoic chamber  
 INVESTIGATED FREQUENCY RANGE: 0.009 – 1000 MHz  
 DETECTOR USED: Peak  
 VIDEO BANDWIDTH: > Resolution bandwidth  
 TEST ANTENNA TYPE: Double ridged guide (above 1000 MHz)  
 MODULATION: QPSK  
 MODULATING SIGNAL: PRBS  
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum

Frequency, MHz	Antenna			Peak field strength(VBW=3 MHz)			Average field strength(VBW=10 Hz)			Verdict
	Polarization	Height, m	Azimuth, degrees*	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB***	
<b>Low carrier frequency</b>										
14223.612	V	2.55	119	61.17	75.2	-14.03	52.00	55.20	-13.20	Pass
<b>Mid carrier frequency</b>										
No emissions were found.										Pass
<b>High carrier frequency</b>										
No emissions were found.										Pass

**Reference numbers of test equipment used**

HL 0030	HL 0446	HL 0614	HL 0661	HL 3903	HL 4278	HL 4360	HL 4933
HL 4956	HL 5111	HL 5288					

Full description is given in Appendix A.

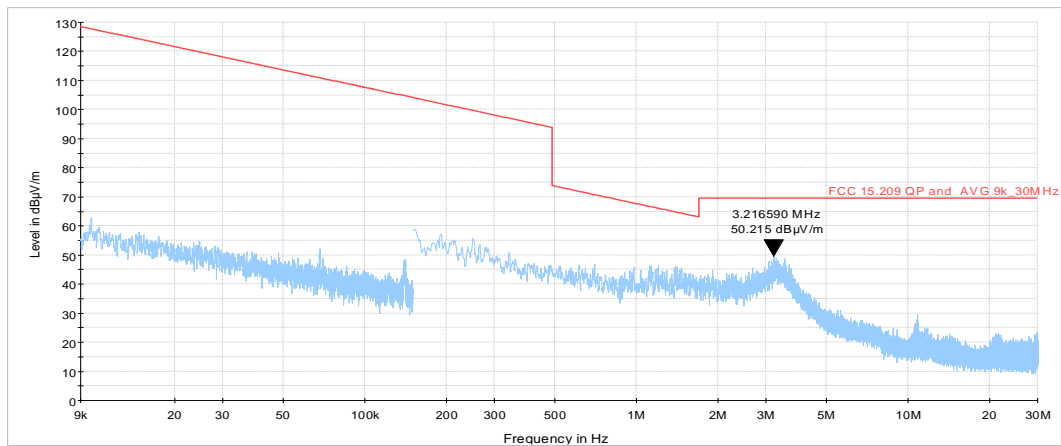




<b>Test specification: Section 96.41(e)(2), Radiated spurious emissions</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 20-Apr-20			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 52 %	<b>Air Pressure:</b> 1011 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.5.1 Radiated emission measurements in 9 kHz - 30 MHz range**

TEST SITE: Semi anechoic chamber  
 CARRIER FREQUENCY: Low  
 TEST DISTANCE: 3 m



**Plot 7.5.2 Radiated emission measurements in 9 kHz - 30 MHz range**

TEST SITE: Semi anechoic chamber  
 CARRIER FREQUENCY: Mid  
 TEST DISTANCE: 3 m

