



HERMON LABORATORIES

Report ID: AIRRAD_FCC.37551_Rev2
Date of Issue: 23-Aug-20

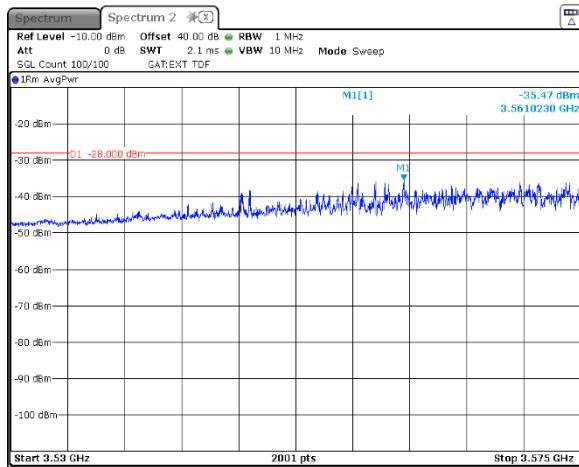
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

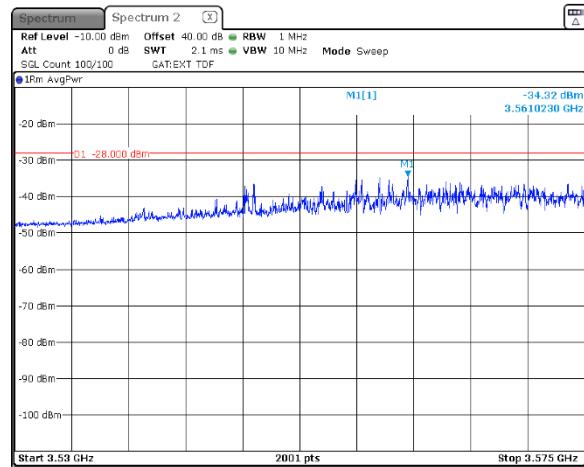
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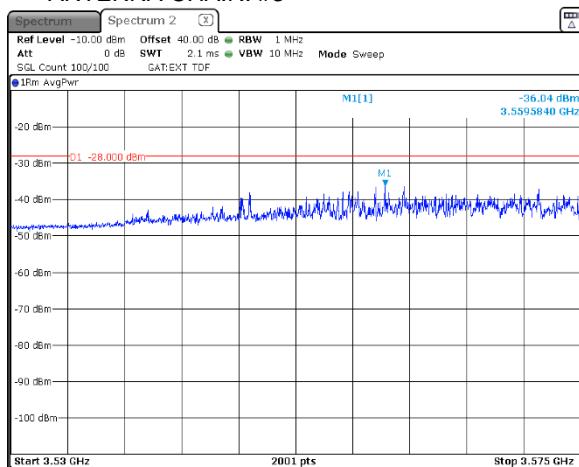
QPSK

20 MHz

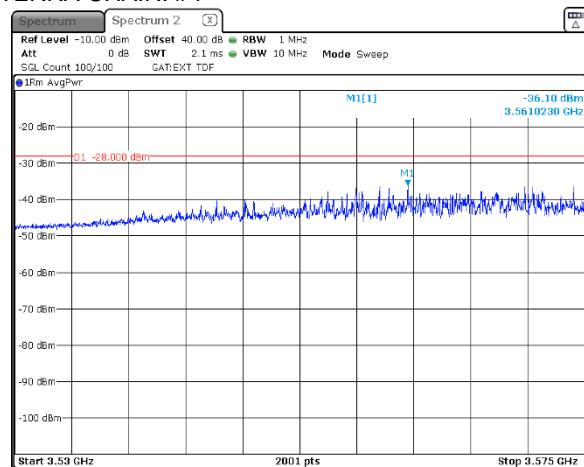
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4





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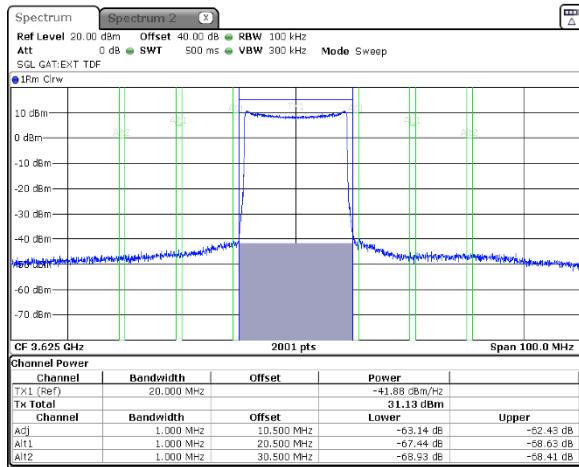
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

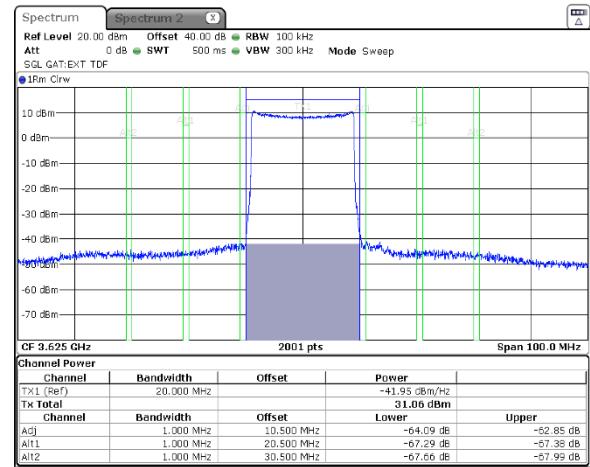
ANTENNA CHAIN: #1



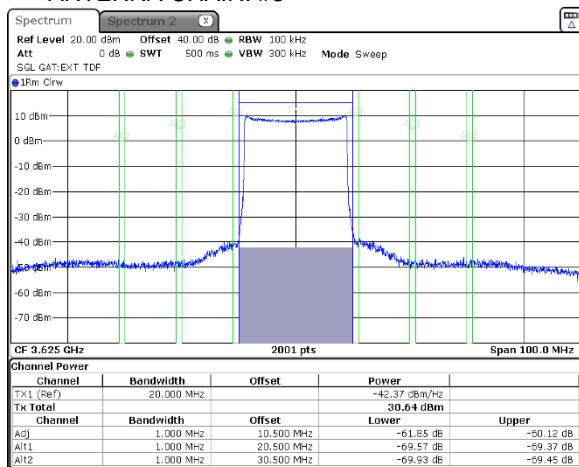
QPSK

20 MHz

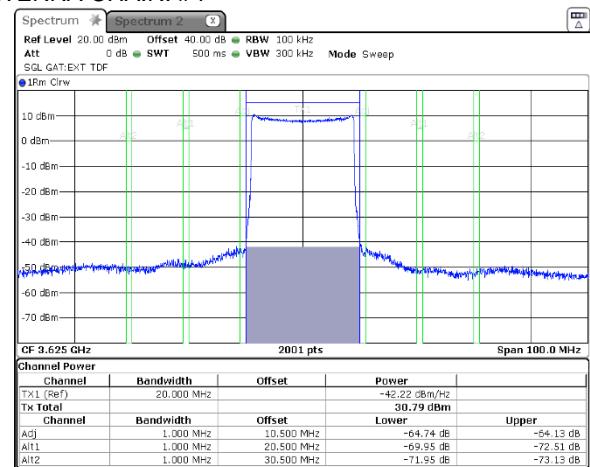
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ANTENNA CHAIN: #3



ANTENNA CHAIN: #4



Note: SA Reading over 1 chain = Tx Total Power + Attenuation below carrier



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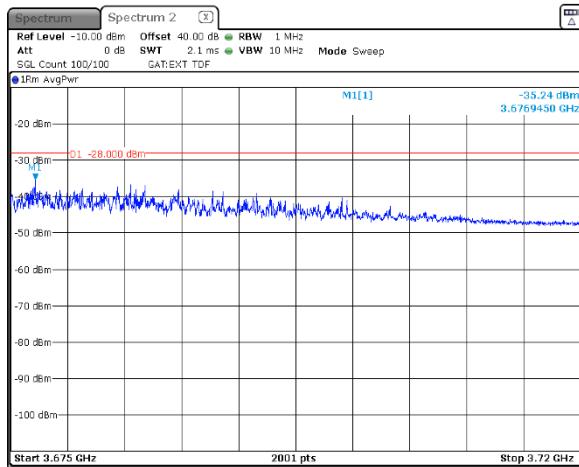
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

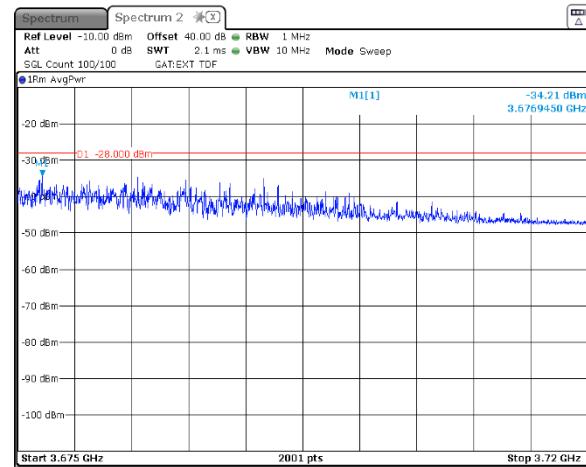
ANTENNA CHAIN: #1



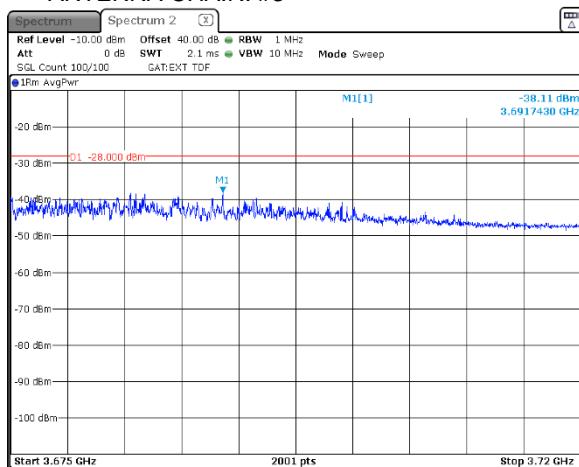
QPSK

20 MHz

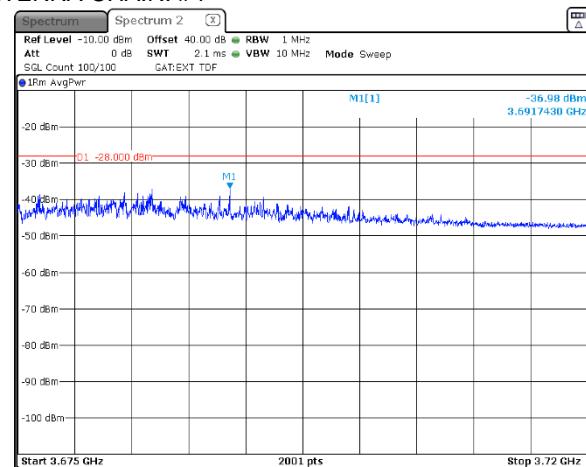
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4





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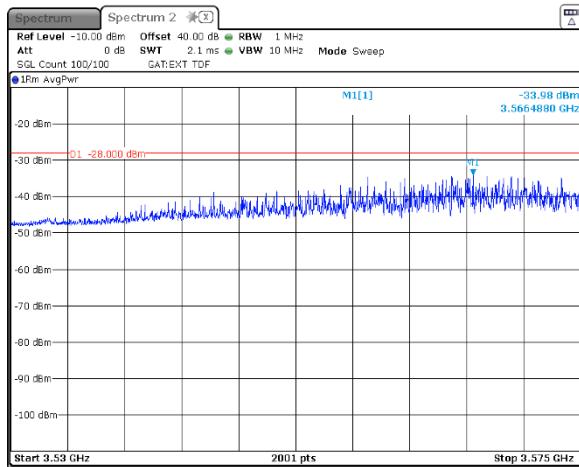
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

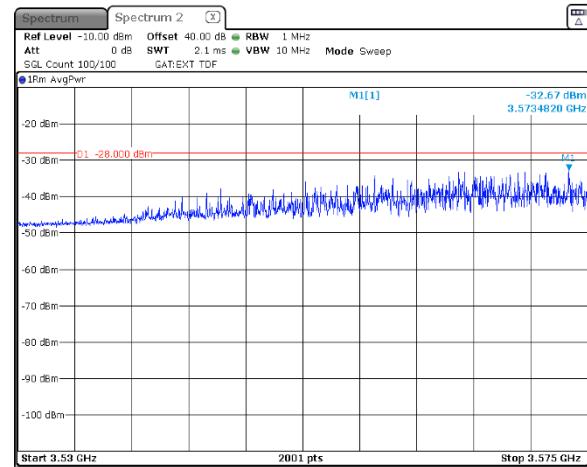
ANTENNA CHAIN: #1



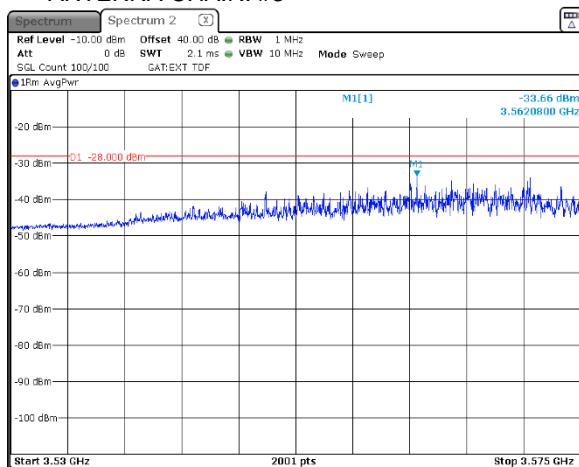
64QAM

20 MHz

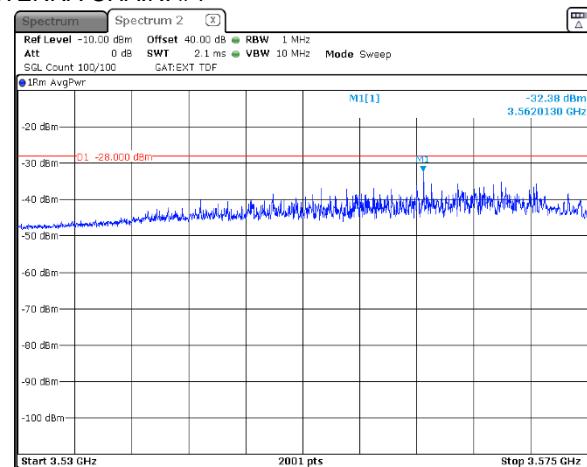
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4





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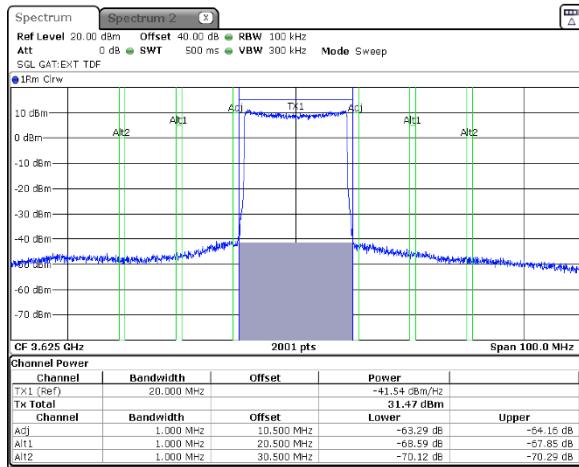
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

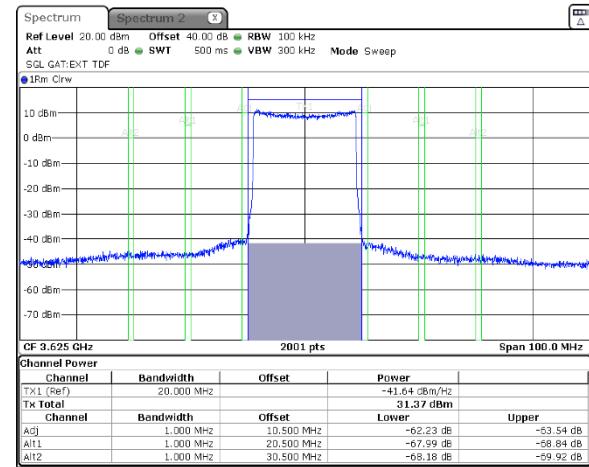
ANTENNA CHAIN: #1



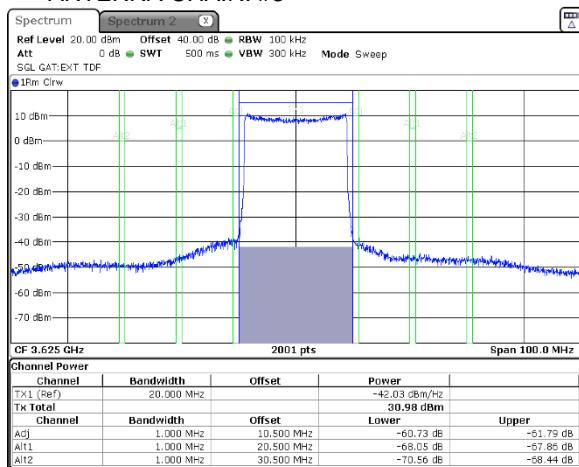
64QAM

20 MHz

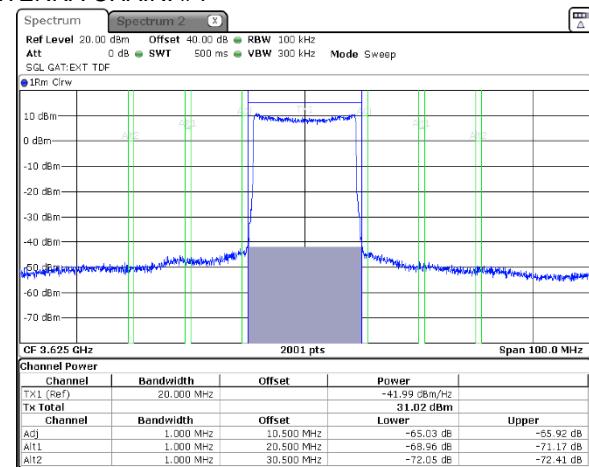
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4



Note: SA Reading over 1 chain = Tx Total Power + Attenuation below carrier



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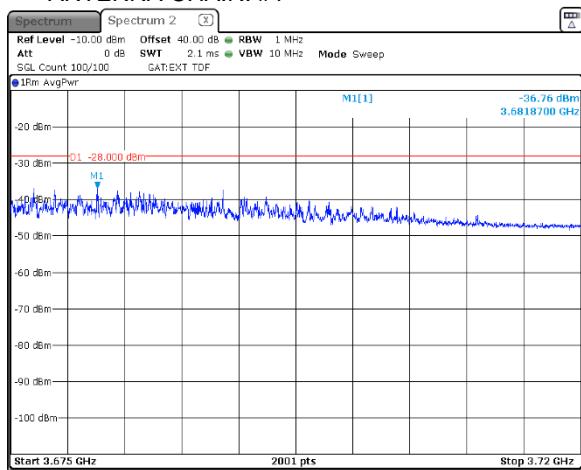
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

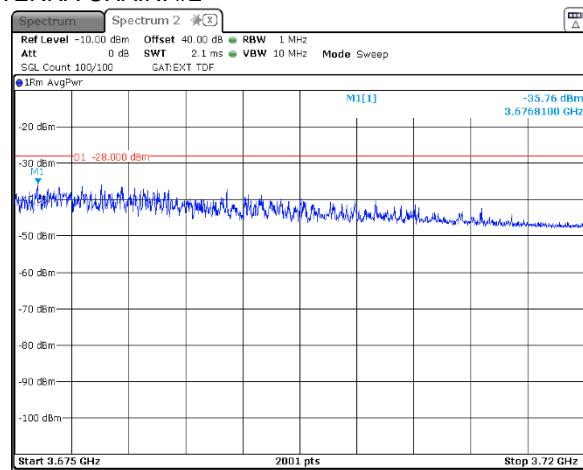
ANTENNA CHAIN: #1



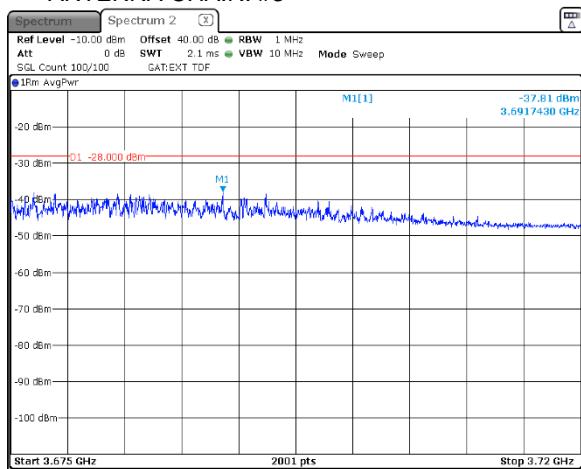
64QAM

20 MHz

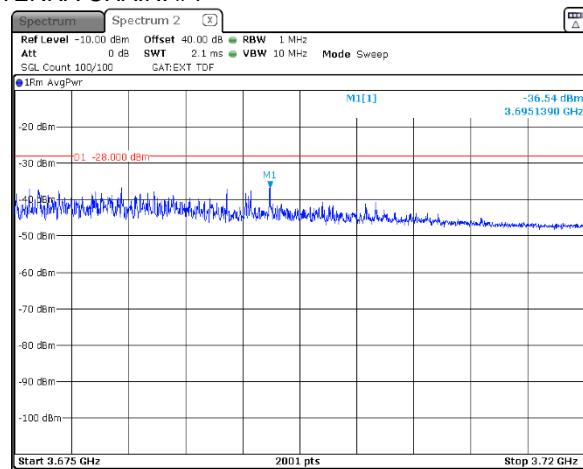
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4





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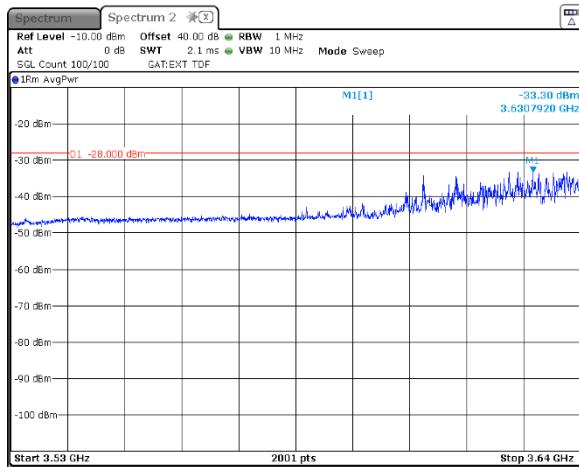
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

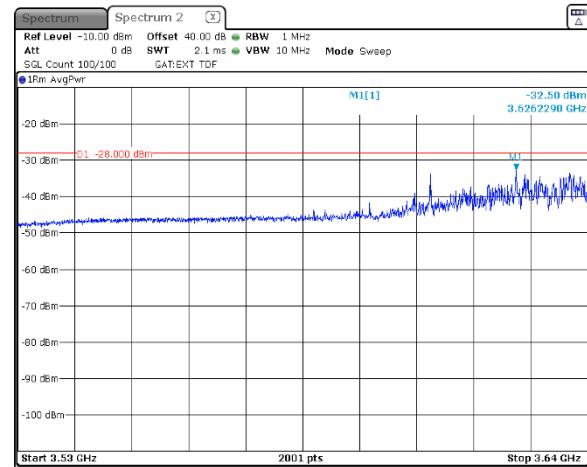
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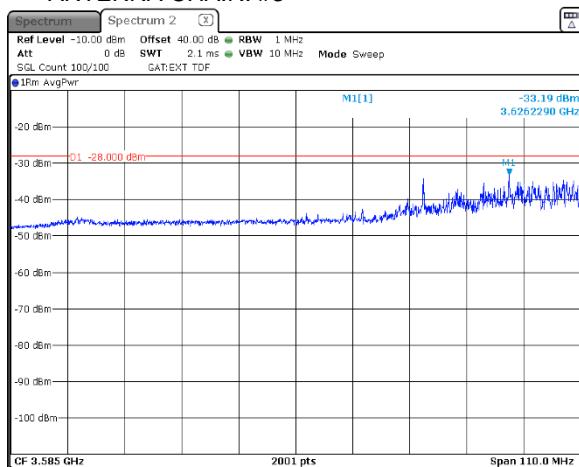
QPSK

20 MHz

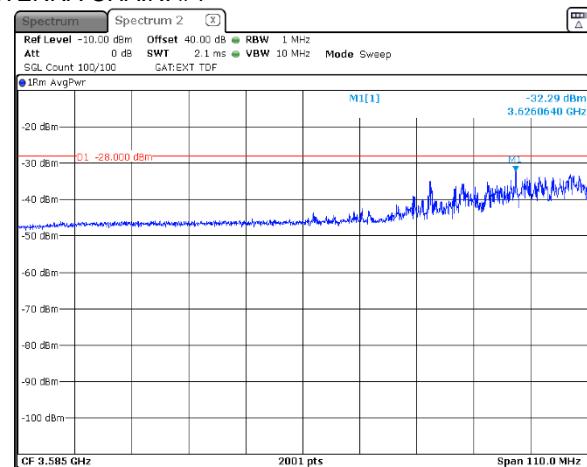
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4





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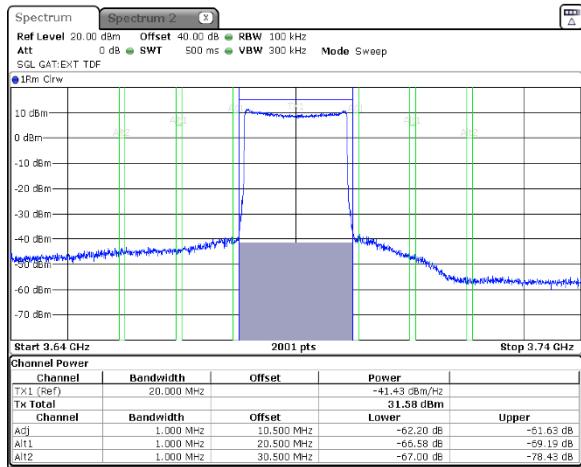
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

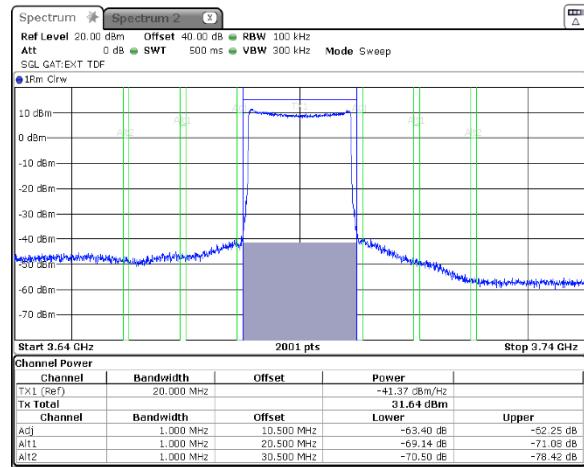
ANTENNA CHAIN: #1



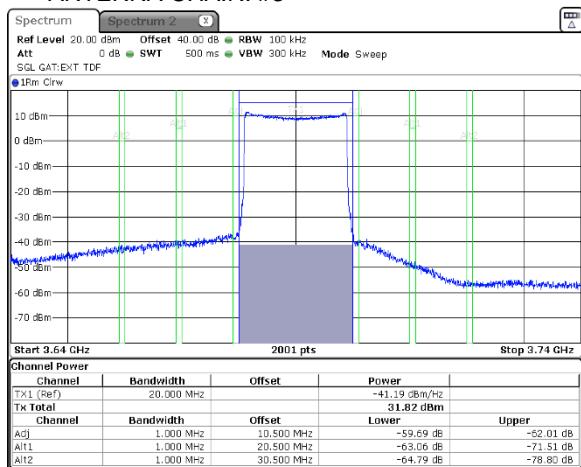
QPSK

20 MHz

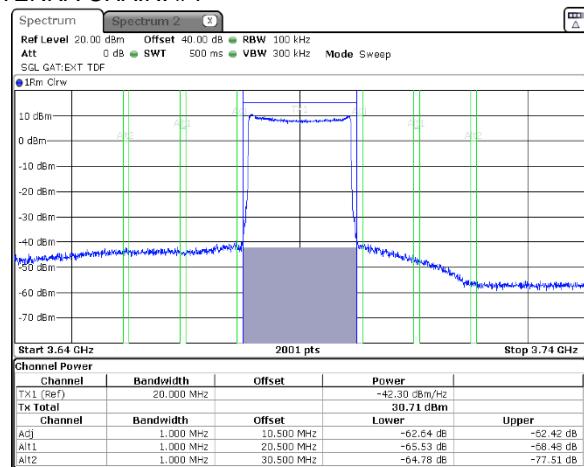
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4



Note: SA Reading over 1 chain = Tx Total Power + Attenuation below carrier



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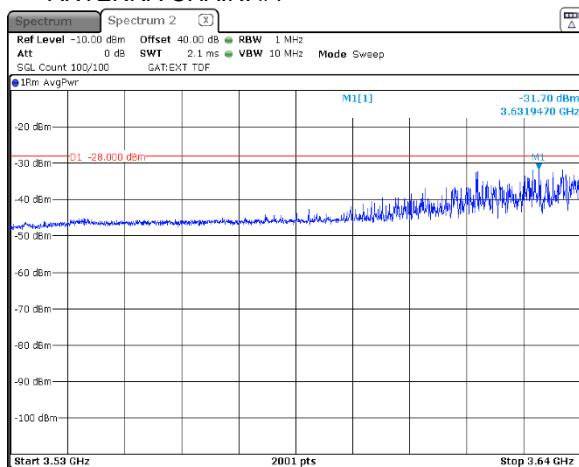
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

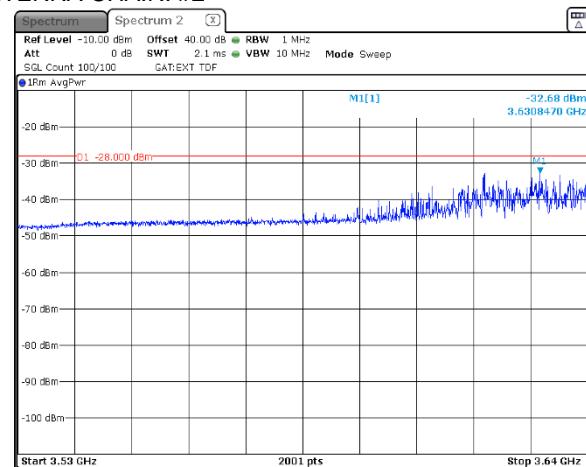
ANTENNA CHAIN: #1



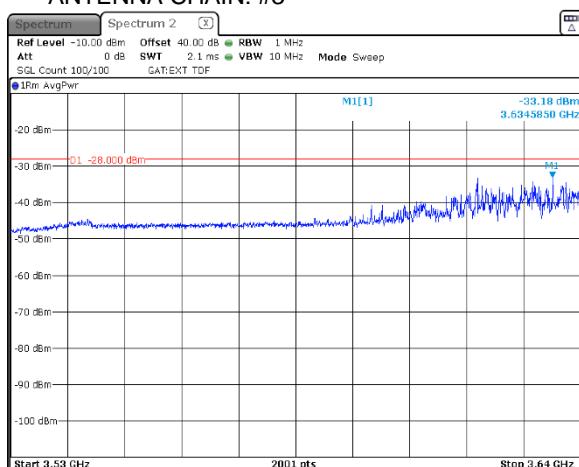
64QAM

20 MHz

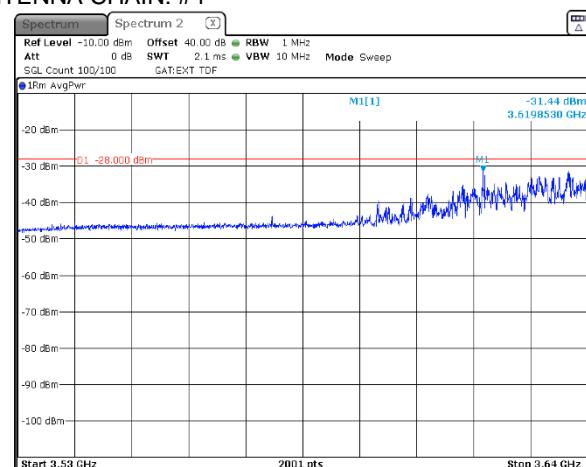
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4





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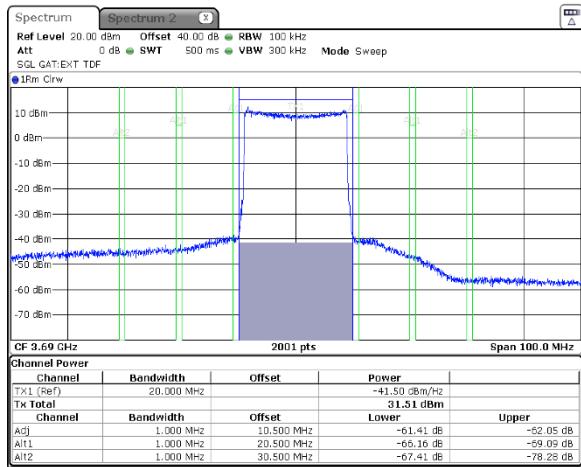
Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 19-Jul-20			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

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

MODULATION:

CHANNEL SPACING:

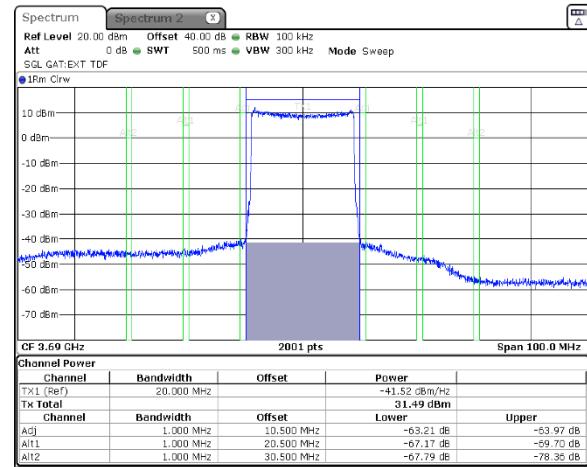
ANTENNA CHAIN: #1



64QAM

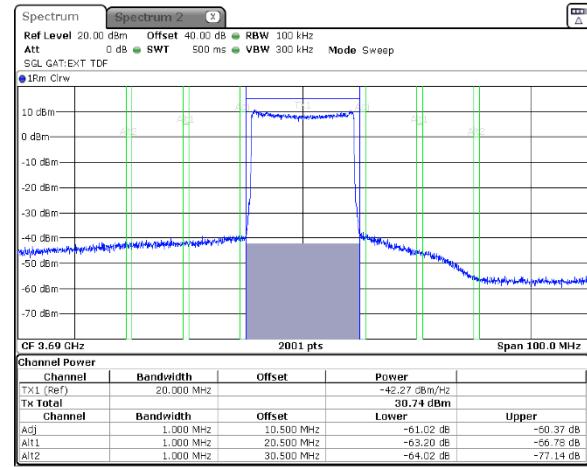
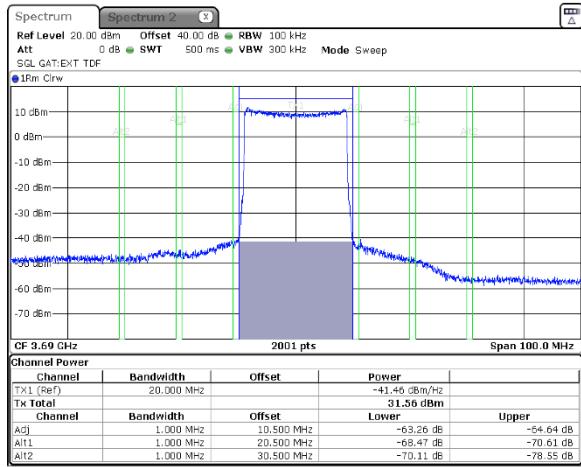
20 MHz

ANTENNA CHAIN: #2



ANTENNA CHAIN: #3

ANTENNA CHAIN: #4



Note: SA Reading over 1 chain = Tx Total Power + Attenuation below carrier



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

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(μ V/m)***
0.09 – below 3530.0	-40.0	55.2
3720.0 – 10th harmonic*	-40.0	55.2

*** - 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.



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Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 20-Apr-20			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VDC
Remarks:			

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

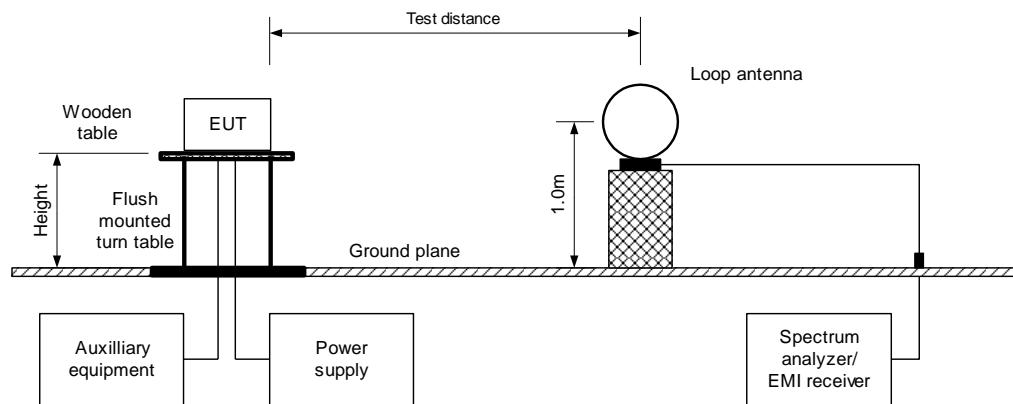
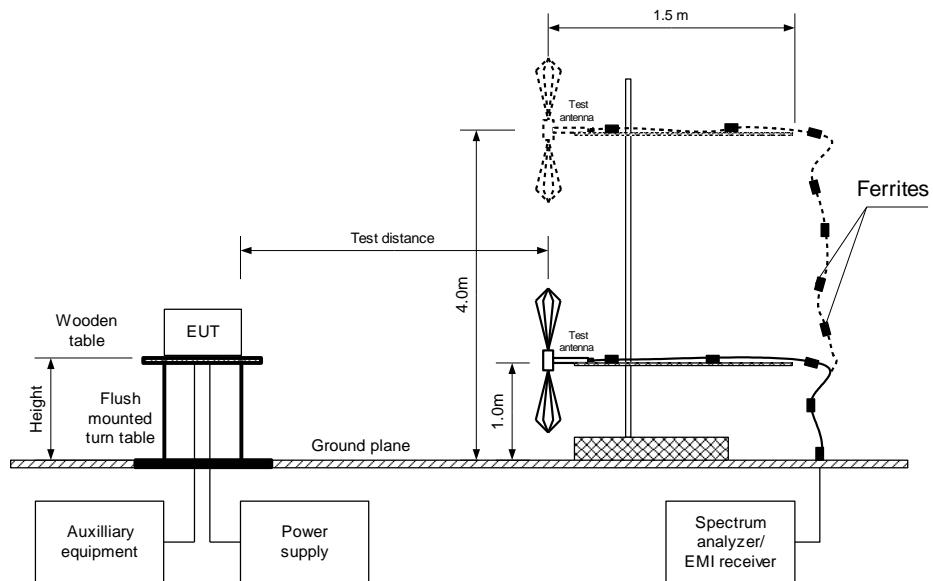


Figure 7.5.2 Setup for spurious emission field strength measurements above 30 MHz





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Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 20-Apr-20			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VDC
Remarks:			

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(µV/m)	Limit, dB(µV/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.



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Test procedure:		Section 96.41(e)(3)		
Test mode:		Compliance		
Date(s):		20-Apr-20		
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa		Power: 48 VDC
Remarks:				

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		Azimuth, degrees*	Peak field strength(VBW=3 MHz)			Average field strength(VBW=10 Hz)			Verdict
	Polarization	Height, m		Measured, dB(µV/m)	Limit, dB(µV/m)	Margin, dB**	Measured, dB(µV/m)	Limit, dB(µV/m)	Margin, dB***	
Low carrier frequency										
14223.612	V	2.55	119	61.17	75.2	-14.03	52.00	55.20	-13.20	Pass
Mid carrier frequency										
No emissions were found.										Pass
High carrier frequency										
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	HL 5405				

Full description is given in Appendix A.



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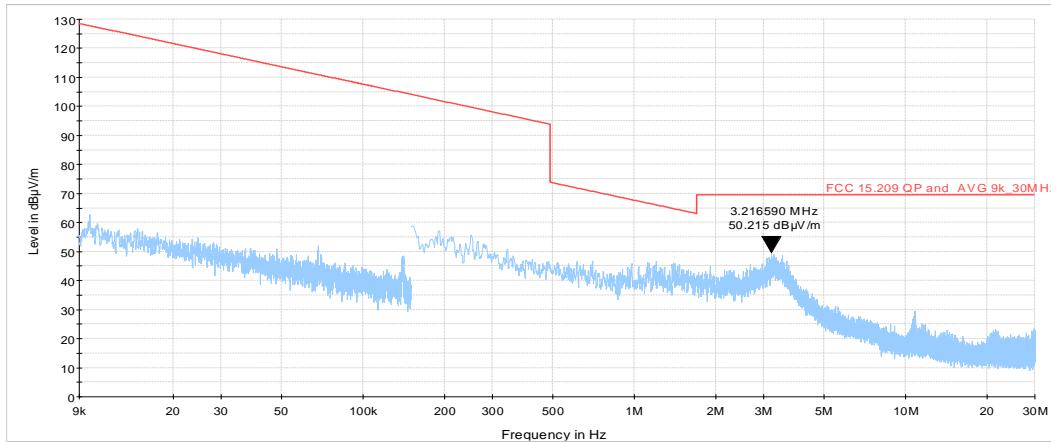
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Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 20-Apr-20			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VDC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

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

TEST SITE:
CARRIER FREQUENCY:
TEST DISTANCE:

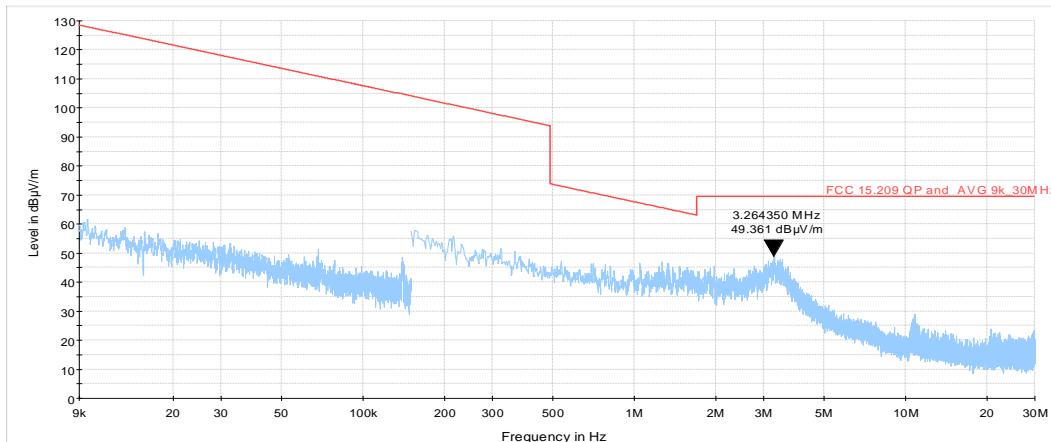
Semi anechoic chamber
Low
3 m



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

TEST SITE:
CARRIER FREQUENCY:
TEST DISTANCE:

Semi anechoic chamber
Mid
3 m





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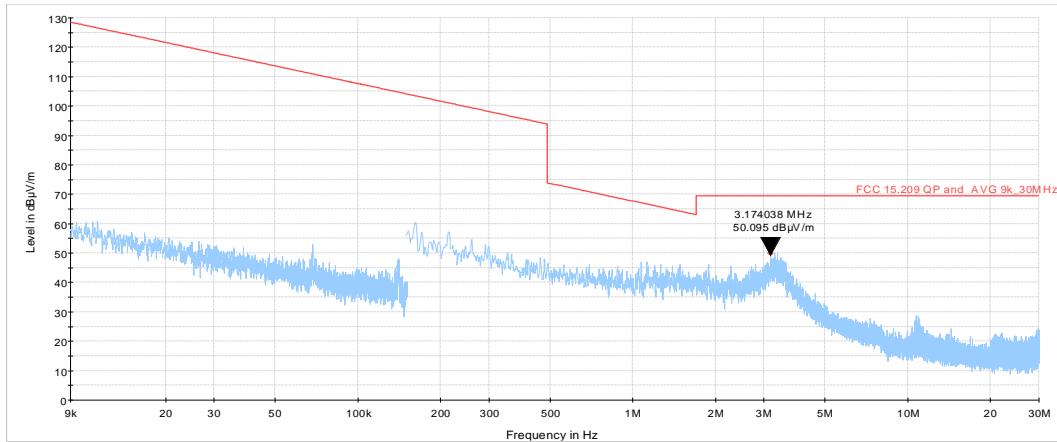
Report ID: AIRRAD_FCC.37551_Rev2
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Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 20-Apr-20			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VDC
Remarks:			

Plot 7.5.3 Radiated emission measurements in 9 kHz - 30 MHz range

TEST SITE:
CARRIER FREQUENCY:
TEST DISTANCE:

Semi anechoic chamber
High
3 m





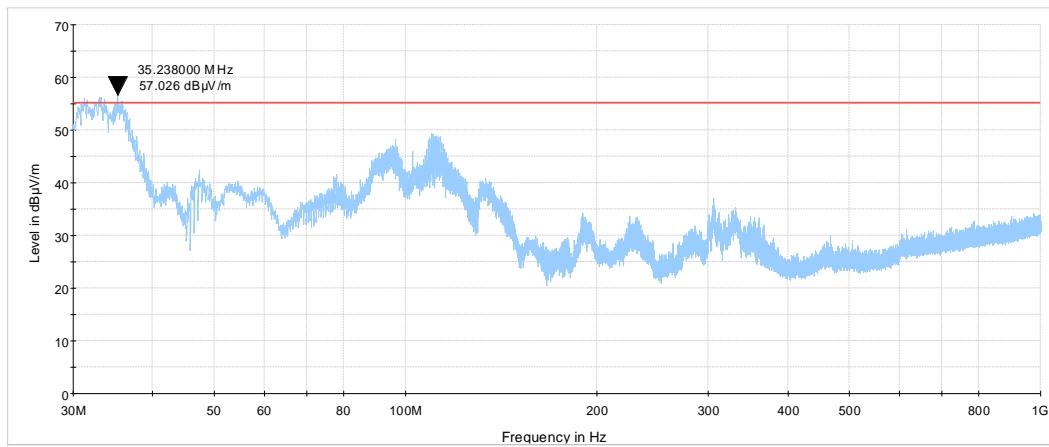
HERMON LABORATORIES

Report ID: AIRRAD_FCC.37551_Rev2
Date of Issue: 23-Aug-20

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

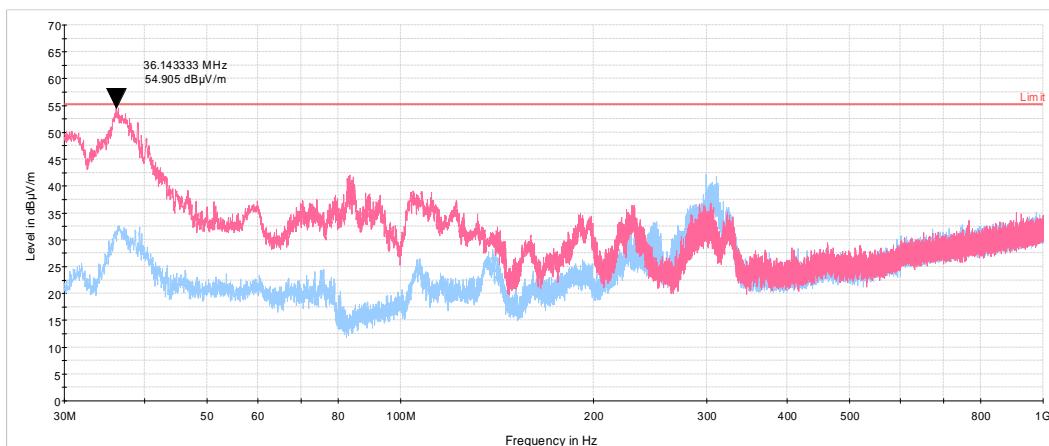
Plot 7.5.4 Radiated emission measurements in 30 - 1000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Plot 7.5.5 Radiated emission measurements in 30 - 1000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Mid
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



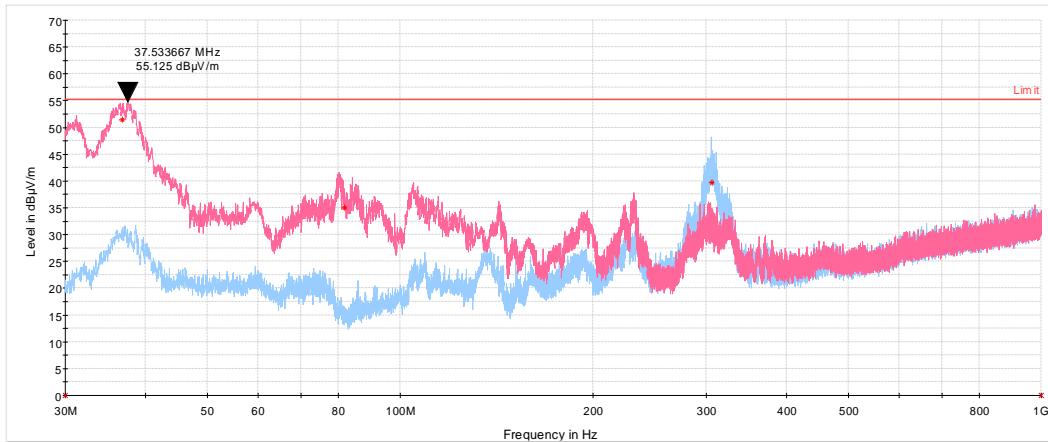


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Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 20-Apr-20			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VDC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

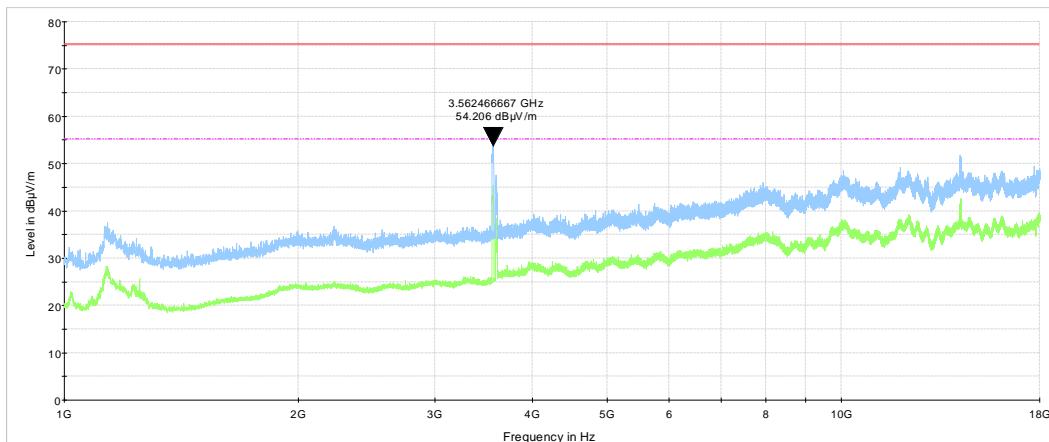
Plot 7.5.6 Radiated emission measurements in 30 - 1000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: High
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Plot 7.5.7 Radiated emission measurements in 1000 – 18000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m





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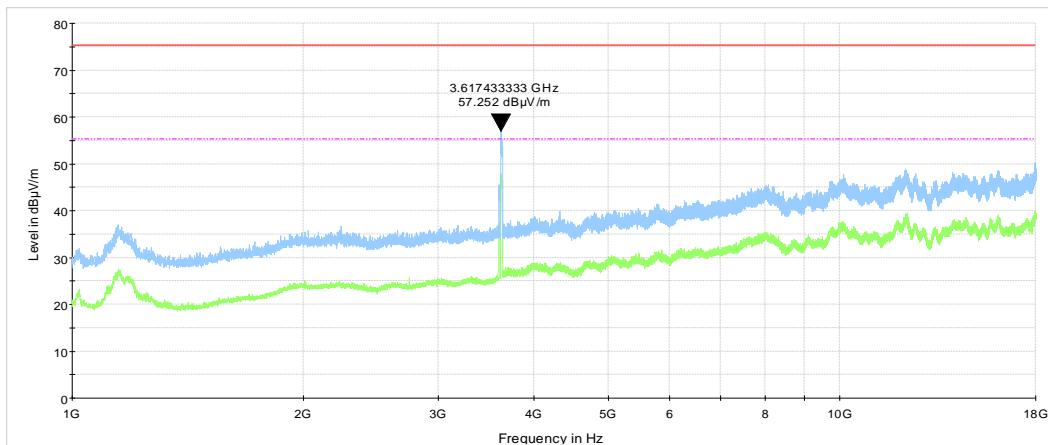
Report ID: AIRRAD_FCC.37551_Rev2
Date of Issue: 23-Aug-20

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

Plot 7.5.8 Radiated emission measurements in 1000 – 18000 MHz range

TEST SITE:
CARRIER FREQUENCY:
ANTENNA POLARIZATION:
TEST DISTANCE:

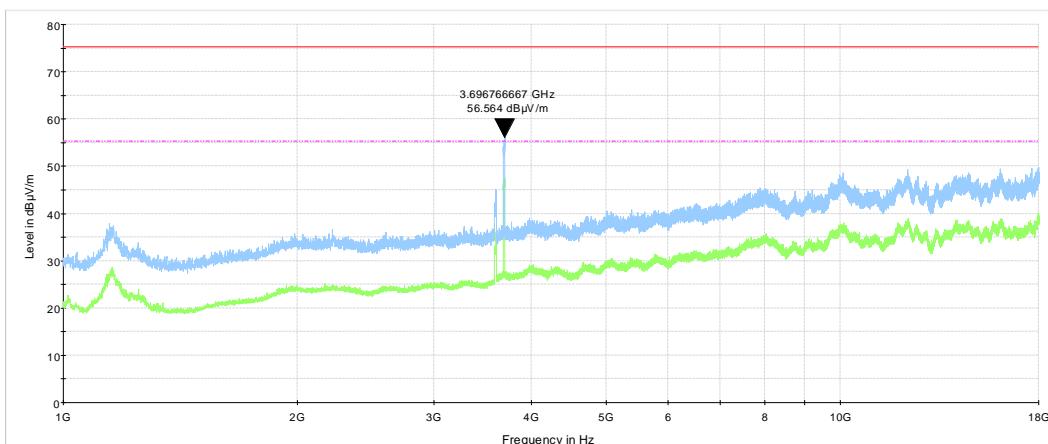
Semi anechoic chamber
Mid
Vertical and Horizontal
3 m



Plot 7.5.9 Radiated emission measurements in 1000 – 18000 MHz range

TEST SITE:
CARRIER FREQUENCY:
ANTENNA POLARIZATION:
TEST DISTANCE:

Semi anechoic chamber
High
Vertical and Horizontal
3 m





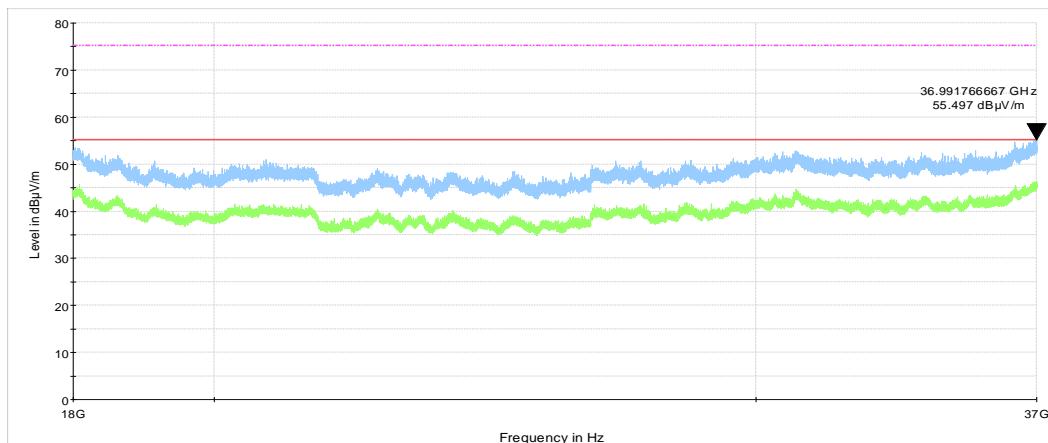
HERMON LABORATORIES

Report ID: AIRRAD_FCC.37551_Rev2
Date of Issue: 23-Aug-20

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

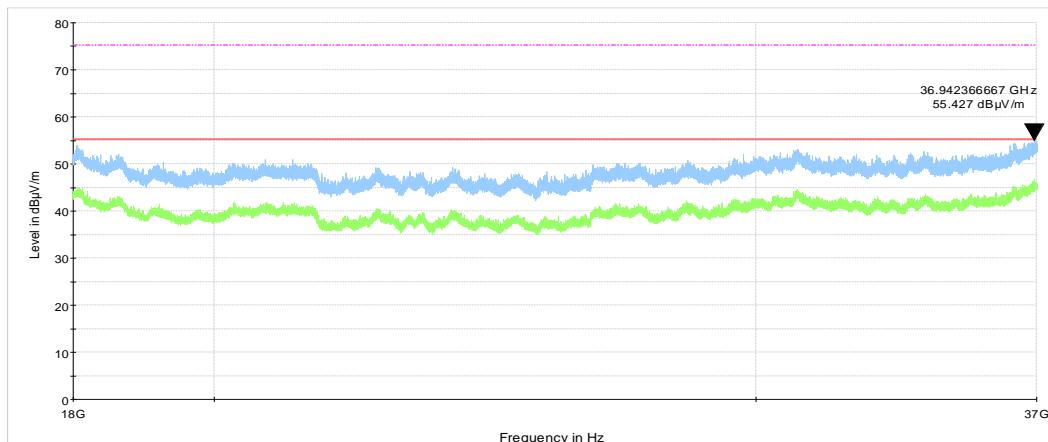
Plot 7.5.10 Radiated emission measurements in 18000 – 37000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Plot 7.5.11 Radiated emission measurements in 18000 – 37000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Mid
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m





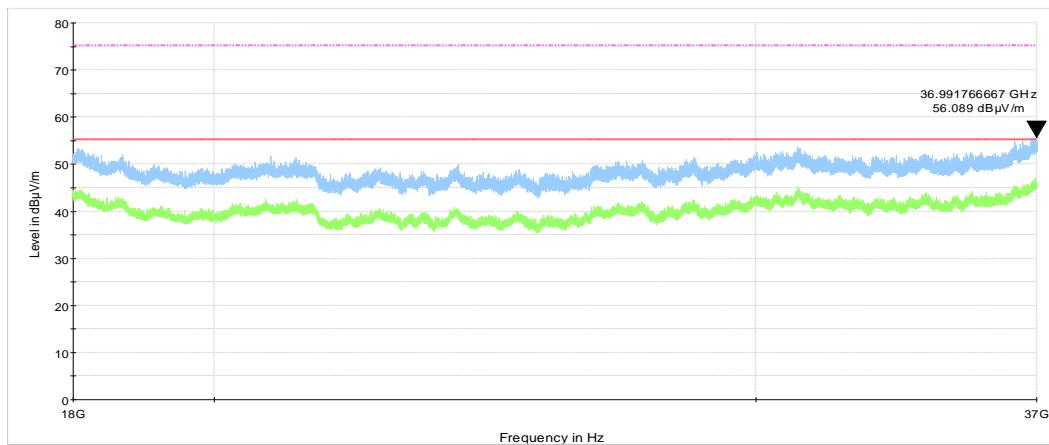
HERMON LABORATORIES

Report ID: AIRRAD_FCC.37551_Rev2
Date of Issue: 23-Aug-20

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

Plot 7.5.12 Radiated emission measurements in 18000 – 37000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: High
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m





HERMON LABORATORIES

Report ID: AIRRAD_FCC.37551_Rev2
Date of Issue: 23-Aug-20

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance			Verdict: PASS
Date(s): 23-Apr-20			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VDC
Remarks:			

7.6 Spurious emissions at RF antenna connector test

7.6.1 General

This test was performed to measure spurious emissions at RF antenna connector. Specification test limits are given in Table 7.6.1.

Table 7.6.1 Spurious emission limits

Frequency, MHz	Conducted power of spurious, dBm/MHz
0.009– below 3530.0	-40.0
3720.0 – 10th harmonic*	-40.0

7.6.2 Test procedure

- 7.6.2.1 The EUT was set up as shown in Figure 7.6.1, energized and its proper operation was checked.
- 7.6.2.2 The EUT was adjusted to produce maximum available for end user RF output power.
- 7.6.2.3 The spurious emission was measured with spectrum analyzer as provided in Table 7.6.2 and associated plots.

Figure 7.6.1 Spurious emission test setup





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Test specification:		Section 96.41(e)(3), Conducted spurious emissions						
Test procedure:		Section 96.41(e)(3)						
Test mode:		Compliance						
Date(s):		23-Apr-20						
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa			Power: 48 VDC			
Remarks:								

Table 7.6.2 Spurious emission test results

ASSIGNED FREQUENCY RANGE: 3550 - 3700 MHz
 INVESTIGATED FREQUENCY RANGE: 0.009 – 37000 MHz
 DETECTOR USED: Peak
 VIDEO BANDWIDTH: \geq Resolution bandwidth
 MODULATION: 64QAM
 MODULATING SIGNAL: PRBS
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 NUMBER ANTENNA PORTS: N = 2

Frequency, MHz	SA reading, dBm***	Attenuator, dB	Cable loss, dB	RBW, kHz	Total Spurious emission, dBm	Limit, dBm	Margin, dB*	Verdict
Channel spacing 10 MHz								
Low carrier frequency 3555 MHz								
					No emissions were found			Pass
Mid carrier frequency 3625 MHz								
					No emissions were found			Pass
High carrier frequency 3695 MHz								
					No emissions were found			Pass
Channel spacing 20 MHz								
Low carrier frequency 3560 MHz								
3529.500	-46.23	Included	Included	1000	-43.23	-40	-3.23	Pass
Mid carrier frequency 3625 MHz								
					No emissions were found			Pass
High carrier frequency 3690 MHz								
3723.500	-44.05	Included	Included	1000	-41.05	-40	-1.05	Pass

*- Margin = Total spurious emission - specification limit.

** - Total emission = Maximum emission per chain + $10 \log(N)$

*** - SA Reading over 1 chain = Max SA reading (Chains #1&2 or chains #3&4)

Reference numbers of test equipment used

HL 3818	HL 4068	HL 4355	HL 5409				
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Full description is given in Appendix A.