



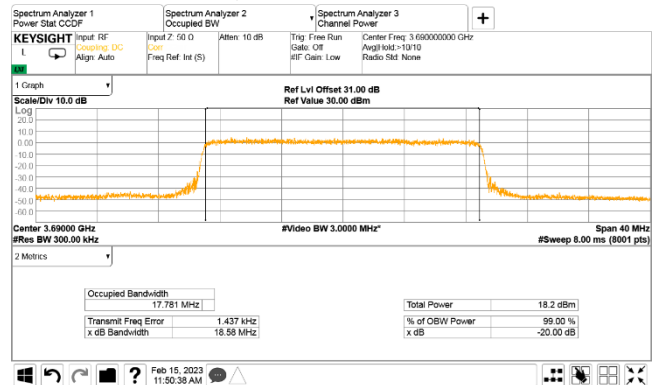
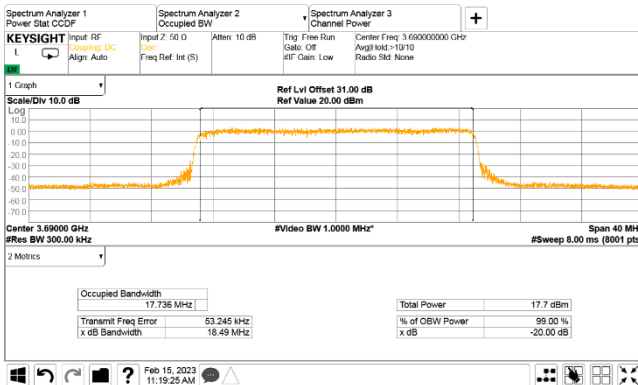
HERMON LABORATORIES

<b>Test specification:</b> Section2.1049, Occupied bandwidth			
<b>Test procedure:</b> 47 CFR, Section 2.1049			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date(s):</b> 15-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Plot 7.3.6 Occupied bandwidth test result at high frequency

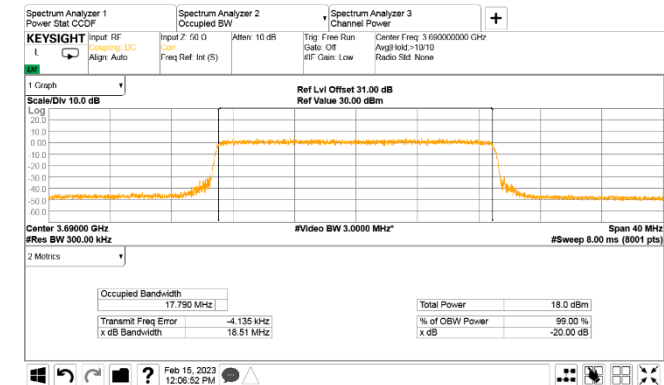
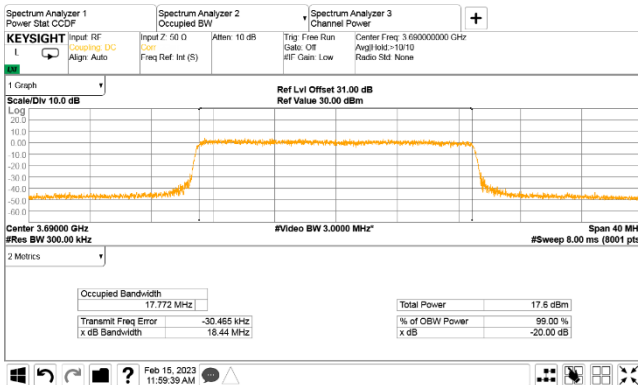
CHANNEL SPACING:  
ANTENNA PORT:  
Modulation: QPSK

20 MHz  
1  
Modulation: 16QAM



Modulation: 64QAM

Modulation: 256QAM





<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

## 7.4 Emission outside the fundamental test

### 7.4.1 General

This test was performed to measure emission mask at RF antenna connector. Specification test limits are given in Table 7.4.1.

Table 7.4.1 Emission outside the fundamental limits

Frequency displacement from frequency block	Limit*, dBm/MHz	RBW, kHz
<b>Channel Spacing 10 MHz</b>		
0 – 1 MHz	- 13	100
0 – 10 MHz	- 13	1000
10 – 20 MHz	- 25	1000
Above 3530 MHz and below 3720 MHz	- 25	1000
Below 3530 MHz and above 3720 MHz	- 40	1000
<b>Channel Spacing 20 MHz</b>		
0 – 1 MHz	- 13	200
0 – 10 MHz	- 13	1000
10 – 20 MHz	- 25	1000
Above 3530 MHz and below 3720 MHz	- 25	1000
Below 3530 MHz and above 3720 MHz	- 40	1000

\* - Limit at each antenna connector (amount of antennas N = 4)

### 7.4.2 Test procedure

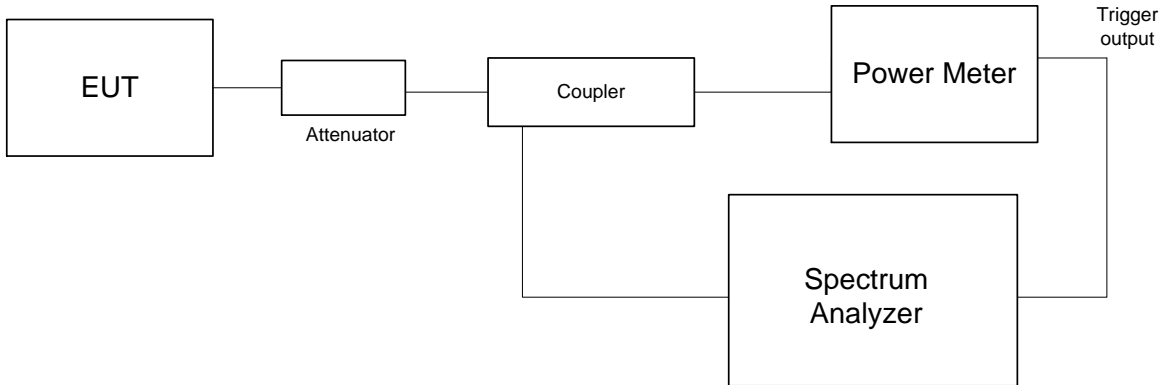
7.4.2.1 The EUT was set up as shown in Figure 7.4.1, energized and its proper operation was checked.

7.4.2.2 The emission mask was measured with spectrum analyzer as provided in the associated plots.



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Figure 7.4.1 Emission mask test setup





<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Table 7.4.2 Emission outside the fundamental test results

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 1  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over 1 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-54.91	-48.91	1000	-40	-8.91	Pass
3540.00	Low	-50.69	-44.69	1000	-25	-19.69	
3549.00	Low	-29.19	-23.19	1000	-13	-10.19	
3550.00	Low	-38.87	-32.87	100	-13	-19.87	
3560.00	High	-37.29	-31.29	100	-13	-18.29	
3561.00	High	-28.34	-22.34	1000	-13	-9.34	
3570.00	High	-47.75	-41.75	1000	-25	-16.75	
3720.00	High	-51.66	-45.66	1000	-40	-5.66	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.16	-49.16	1000	-40	-9.16	Pass
3610.00	Low	-49.93	-43.93	1000	-25	-18.93	
3619.00	Low	-29.94	-23.94	1000	-13	-10.94	
3620.00	Low	-39.66	-33.66	100	-13	-20.66	
3630.00	High	-38.31	-32.31	100	-13	-19.31	
3631.00	High	-30.16	-24.16	1000	-13	-11.16	
3640.00	High	-48.43	-42.43	1000	-25	-17.43	
3720.00	High	-51.78	-45.78	1000	-40	-5.78	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.54	-47.54	1000	-40	-7.54	Pass
3680.00	Low	-48.04	-42.04	1000	-25	-17.04	
3689.00	Low	-28.56	-22.56	1000	-13	-9.56	
3690.00	Low	-38.89	-32.89	100	-13	-19.89	
3700.00	High	-38.77	-32.77	100	-13	-19.77	
3701.00	High	-29.64	-23.64	1000	-13	-10.64	
3710.00	High	-48.65	-42.65	1000	-25	-17.65	
3720.00	High	-51.69	-45.69	1000	-40	-5.69	



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Table 7.4.3 Emission outside the fundamental test results (continuation)

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 1  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over 1 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-55.12	-49.12	1000	-40	-9.12	Pass
3540.00	Low	-52.18	-46.18	1000	-25	-21.18	
3549.00	Low	-28.30	-22.30	1000	-13	-9.3	
3550.00	Low	-41.29	-35.29	100	-13	-22.29	
3560.00	High	-41.18	-35.18	100	-13	-22.18	
3561.00	High	-27.80	-21.80	1000	-13	-8.8	
3570.00	High	-50.40	-44.40	1000	-25	-19.4	
3720.00	High	-51.80	-45.80	1000	-40	-5.8	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-54.95	-48.95	1000	-40	-8.95	Pass
3610.00	Low	-49.34	-43.34	1000	-25	-18.34	
3619.00	Low	-29.32	-23.32	1000	-13	-10.32	
3620.00	Low	-40.51	-34.51	100	-13	-21.51	
3630.00	High	-40.23	-34.23	100	-13	-21.23	
3631.00	High	-29.16	-23.16	1000	-13	-10.16	
3640.00	High	-49.66	-43.66	1000	-25	-18.66	
3720.00	High	-51.81	-45.81	1000	-40	-5.81	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-54.93	-48.93	1000	-40	-8.93	Pass
3680.00	Low	-48.13	-42.13	1000	-25	-17.13	
3689.00	Low	-28.26	-22.26	1000	-13	-9.26	
3690.00	Low	-39.82	-33.82	100	-13	-20.82	
3700.00	High	-40.20	-34.20	100	-13	-21.2	
3701.00	High	-28.59	-22.59	1000	-13	-9.59	
3710.00	High	-49.39	-43.39	1000	-25	-18.39	
3720.00	High	-51.69	-45.69	1000	-40	-5.69	

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

\*\* - Total band edge = Maximum SA Reading over 1 chain + 10\*log(N) = SA reading +6 dB

\*\*\* - Margin = Total band edge – Specification limit



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.4 Emission outside the fundamental test results**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 2  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over 2 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-53.43	-47.43	1000	-40	-7.43	Pass
3540.00	Low	-52.67	-46.67	1000	-25	-21.67	
3549.00	Low	-28.51	-22.51	1000	-13	-9.51	
3550.00	Low	-41.84	-35.84	100	-13	-22.84	
3560.00	High	-40.17	-34.17	100	-13	-21.17	
3561.00	High	-27.80	-21.8	1000	-13	-8.8	
3570.00	High	-51.10	-45.1	1000	-25	-20.1	
3720.00	High	-51.55	-45.55	1000	-40	-5.55	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.08	-49.08	1000	-40	-9.08	Pass
3610.00	Low	-51.55	-45.55	1000	-25	-20.55	
3619.00	Low	-28.65	-22.65	1000	-13	-9.65	
3620.00	Low	-40.60	-34.6	100	-13	-21.6	
3630.00	High	-40.01	-34.01	100	-13	-21.01	
3631.00	High	-28.84	-22.84	1000	-13	-9.84	
3640.00	High	-50.79	-44.79	1000	-25	-19.79	
3720.00	High	-51.68	-45.68	1000	-40	-5.68	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.53	-47.53	1000	-40	-7.53	Pass
3680.00	Low	-48.92	-42.92	1000	-25	-17.92	
3689.00	Low	-28.04	-22.04	1000	-13	-9.04	
3690.00	Low	-37.52	-31.52	100	-13	-18.52	
3700.00	High	-36.76	-30.76	100	-13	-17.76	
3701.00	High	-28.79	-22.79	1000	-13	-9.79	
3710.00	High	-48.85	-42.85	1000	-25	-17.85	
3720.00	High	-51.52	-45.52	1000	-40	-5.52	



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.5 Emission outside the fundamental test results (continuation)**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 2  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over 2 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-55.24	-49.24	1000	-40	-9.24	Pass
3540.00	Low	-52.40	-46.4	1000	-25	-21.4	
3549.00	Low	-28.39	-22.39	1000	-13	-9.39	
3550.00	Low	-41.51	-35.51	100	-13	-22.51	
3560.00	High	-40.53	-34.53	100	-13	-21.53	
3561.00	High	-27.73	-21.73	1000	-13	-8.73	
3570.00	High	-53.01	-47.01	1000	-25	-22.01	
3720.00	High	-51.89	-45.89	1000	-40	-5.89	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.10	-49.1	1000	-40	-9.1	Pass
3610.00	Low	-51.17	-45.17	1000	-25	-20.17	
3619.00	Low	-28.18	-22.18	1000	-13	-9.18	
3620.00	Low	-42.17	-36.17	100	-13	-23.17	
3630.00	High	-42.57	-36.57	100	-13	-23.57	
3631.00	High	-28.62	-22.62	1000	-13	-9.62	
3640.00	High	-50.15	-44.15	1000	-25	-19.15	
3720.00	High	-51.75	-45.75	1000	-40	-5.75	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.50	-47.5	1000	-40	-7.5	Pass
3680.00	Low	-47.15	-41.15	1000	-25	-16.15	
3689.00	Low	-27.74	-21.74	1000	-13	-8.74	
3690.00	Low	-36.20	-30.2	100	-13	-17.2	
3700.00	High	-36.63	-30.63	100	-13	-17.63	
3701.00	High	-28.43	-22.43	1000	-13	-9.43	
3710.00	High	-48.41	-42.41	1000	-25	-17.41	
3720.00	High	-51.55	-45.55	1000	-40	-5.55	

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

\*\* - Total band edge = Maximum SA Reading over 1 chain + 10\*log(N) = SA reading +6 dB

\*\*\* - Margin = Total band edge – Specification limit



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.6 Emission outside the fundamental test results**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 3  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over3 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-55.11	-49.11	1000	-40	-9.11	Pass
3540.00	Low	-53.84	-47.84	1000	-25	-22.84	
3549.00	Low	-29.27	-23.27	1000	-13	-10.27	
3550.00	Low	-41.62	-35.62	100	-13	-22.62	
3560.00	High	-40.64	-34.64	100	-13	-21.64	
3561.00	High	-28.68	-22.68	1000	-13	-9.68	
3570.00	High	-51.08	-45.08	1000	-25	-20.08	
3720.00	High	-51.78	-45.78	1000	-40	-5.78	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.09	-49.09	1000	-40	-9.09	Pass
3610.00	Low	-51.02	-45.02	1000	-25	-20.02	
3619.00	Low	-29.36	-23.36	1000	-13	-10.36	
3620.00	Low	-38.73	-32.73	100	-13	-19.73	
3630.00	High	-37.24	-31.24	100	-13	-18.24	
3631.00	High	-29.64	-23.64	1000	-13	-10.64	
3640.00	High	-49.56	-43.56	1000	-25	-18.56	
3720.00	High	-51.71	-45.71	1000	-40	-5.71	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.59	-47.59	1000	-40	-7.59	Pass
3680.00	Low	-48.77	-42.77	1000	-25	-17.77	
3689.00	Low	-28.06	-22.06	1000	-13	-9.06	
3690.00	Low	-38.56	-32.56	100	-13	-19.56	
3700.00	High	-38.08	-32.08	100	-13	-19.08	
3701.00	High	-28.93	-22.93	1000	-13	-9.93	
3710.00	High	-48.78	-42.78	1000	-25	-17.78	
3720.00	High	-51.63	-45.63	1000	-40	-5.63	





<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.7 Emission outside the fundamental test results (continuation)**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 3  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over 3 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-55.18	-49.18	1000	-40	-9.18	Pass
3540.00	Low	-53.86	-47.86	1000	-25	-22.86	
3549.00	Low	-28.95	-22.95	1000	-13	-9.95	
3550.00	Low	-41.95	-35.95	100	-13	-22.95	
3560.00	High	-41.58	-35.58	100	-13	-22.58	
3561.00	High	-28.16	-22.16	1000	-13	-9.16	
3570.00	High	-50.66	-44.66	1000	-25	-19.66	
3720.00	High	-51.87	-45.87	1000	-40	-5.87	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.09	-49.09	1000	-40	-9.09	Pass
3610.00	Low	-51.16	-45.16	1000	-25	-20.16	
3619.00	Low	-28.98	-22.98	1000	-13	-9.98	
3620.00	Low	-39.08	-33.08	100	-13	-20.08	
3630.00	High	-39.13	-33.13	100	-13	-20.13	
3631.00	High	-29.10	-23.1	1000	-13	-10.1	
3640.00	High	-49.34	-43.34	1000	-25	-18.34	
3720.00	High	-51.84	-45.84	1000	-40	-5.84	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.61	-47.61	1000	-40	-7.61	Pass
3680.00	Low	-47.36	-41.36	1000	-25	-16.36	
3689.00	Low	-28.43	-22.43	1000	-13	-9.43	
3690.00	Low	-38.62	-32.62	100	-13	-19.62	
3700.00	High	-38.22	-32.22	100	-13	-19.22	
3701.00	High	-28.73	-22.73	1000	-13	-9.73	
3710.00	High	-47.61	-41.61	1000	-25	-16.61	
3720.00	High	-51.55	-45.55	1000	-40	-5.55	

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

\*\* - Total band edge = Maximum SA Reading over 1 chain + 10\*log(N) = SA reading +6 dB

\*\*\* - Margin = Total band edge – Specification limit



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.8 Emission outside the fundamental test results**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 4  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over 4 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-55.06	-49.06	1000	-40	-9.06	Pass
3540.00	Low	-54.19	-48.19	1000	-25	-23.19	
3549.00	Low	-29.61	-23.61	1000	-13	-10.61	
3550.00	Low	-42.56	-36.56	100	-13	-23.56	
3560.00	High	-40.77	-34.77	100	-13	-21.77	
3561.00	High	-28.69	-22.69	1000	-13	-9.69	
3570.00	High	-51.84	-45.84	1000	-25	-20.84	
3720.00	High	-51.80	-45.80	1000	-40	-5.8	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.05	-49.05	1000	-40	-9.05	Pass
3610.00	Low	-51.35	-45.35	1000	-25	-20.35	
3619.00	Low	-29.72	-23.72	1000	-13	-10.72	
3620.00	Low	-39.31	-33.31	100	-13	-20.31	
3630.00	High	-38.15	-32.15	100	-13	-19.15	
3631.00	High	-29.78	-23.78	1000	-13	-10.78	
3640.00	High	-49.75	-43.75	1000	-25	-18.75	
3720.00	High	-51.74	-45.74	1000	-40	-5.74	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.50	-47.50	1000	-40	-7.5	Pass
3680.00	Low	-49.54	-43.54	1000	-25	-18.54	
3689.00	Low	-28.55	-22.55	1000	-13	-9.55	
3690.00	Low	-37.82	-31.82	100	-13	-18.82	
3700.00	High	-37.47	-31.47	100	-13	-18.47	
3701.00	High	-29.28	-23.28	1000	-13	-10.28	
3710.00	High	-49.28	-43.28	1000	-25	-18.28	
3720.00	High	-51.65	-45.65	1000	-40	-5.65	



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.9 Emission outside the fundamental test results (continuation)**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 4  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 10MHz

Frequency MHz	Band edge	SA reading over 4 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-54.94	-48.94	1000	-40	-8.94	Pass
3540.00	Low	-54.16	-48.16	1000	-25	-23.16	
3549.00	Low	-29.64	-23.64	1000	-13	-10.64	
3550.00	Low	-43.21	-37.21	100	-13	-24.21	
3560.00	High	-42.44	-36.44	100	-13	-23.44	
3561.00	High	-29.08	-23.08	1000	-13	-10.08	
3570.00	High	-51.65	-45.65	1000	-25	-20.65	
3720.00	High	-51.80	-45.80	1000	-40	-5.8	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.0	-49.00	1000	-40	-9	Pass
3610.00	Low	-50.69	-44.69	1000	-25	-19.69	
3619.00	Low	-29.71	-23.71	1000	-13	-10.71	
3620.00	Low	-40.01	-34.01	100	-13	-21.01	
3630.00	High	-40.16	-34.16	100	-13	-21.16	
3631.00	High	-29.57	-23.57	1000	-13	-10.57	
3640.00	High	-49.14	-43.14	1000	-25	-18.14	
3720.00	High	-51.78	-45.78	1000	-40	-5.78	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.47	-47.47	1000	-40	-7.47	Pass
3680.00	Low	-48.40	-42.40	1000	-25	-17.4	
3689.00	Low	-28.28	-22.28	1000	-13	-9.28	
3690.00	Low	-38.71	-32.71	100	-13	-19.71	
3700.00	High	-39.36	-33.36	100	-13	-20.36	
3701.00	High	-28.99	-22.99	1000	-13	-9.99	
3710.00	High	-49.53	-43.53	1000	-25	-18.53	
3720.00	High	-51.69	-45.69	1000	-40	-5.69	

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

\*\* - Total band edge = Maximum SA Reading over 1 chain + 10\*log(N) = SA reading +6 dB

\*\*\* - Margin = Total band edge – Specification limit



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.10 Emission outside the fundamental test results**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 1  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 1 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3560.0 MHz</b>							
3530.00	Low	-54.96	-48.96	1000	-40	-8.96	Pass
3540.00	Low	-46.34	-40.34	1000	-25	-15.34	
3549.00	Low	-38.84	-32.84	1000	-13	-19.84	
3550.00	Low	-42.35	-36.35	200	-13	-23.35	
3570.00	High	-40.95	-34.95	200	-13	-21.95	
3571.00	High	-37.20	-31.20	1000	-13	-18.2	
3580.00	High	-43.00	-37.00	1000	-25	-12	
3720.00	High	-51.85	-45.85	1000	-40	-5.85	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.05	-49.05	1000	-40	-9.05	Pass
3605.00	Low	-47.42	-41.42	1000	-25	-16.42	
3614.00	Low	-40.12	-34.12	1000	-13	-21.12	
3615.00	Low	-41.59	-35.59	200	-13	-22.59	
3635.00	High	-41.21	-35.21	200	-13	-22.21	
3636.00	High	-38.27	-32.27	1000	-13	-19.27	
3645.00	High	-44.30	-38.30	1000	-25	-13.3	
3720.00	High	-41.77	-35.77	1000	-40	4.23	
<b>High frequency 3690.0 MHz</b>							
3530.00	Low	-55.06	-49.06	1000	-40	-9.06	Pass
3670.00	Low	-43.95	-37.95	1000	-25	-12.95	
3679.00	Low	-38.25	-32.25	1000	-13	-19.25	
3680.00	Low	-39.80	-33.80	200	-13	-20.8	
3700.00	High	-39.28	-33.28	200	-13	-20.28	
3701.00	High	39.29	45.29	1000	-13	58.29	
3710.00	High	-45.09	-39.09	1000	-25	-14.09	
3720.00	High	-51.75	-45.75	1000	-40	-5.75	



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.11 Emission outside the fundamental test results (continuation)**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 1  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 1 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-54.88	-48.88	1000	-40	-8.88	Pass
3540.00	Low	-47.32	-41.32	1000	-25	-16.32	
3549.00	Low	-38.84	-32.84	1000	-13	-19.84	
3550.00	Low	-41.54	-35.54	200	-13	-22.54	
3570.00	High	-41.01	-35.01	200	-13	-22.01	
3571.00	High	-36.80	-30.80	1000	-13	-17.8	
3580.00	High	-44.68	-38.68	1000	-25	-13.68	
3720.00	High	-51.80	-45.80	1000	-40	-5.8	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.02	-49.02	1000	-40	-9.02	Pass
3605.00	Low	-46.70	-40.70	1000	-25	-15.7	
3614.00	Low	-40.18	-34.18	1000	-13	-21.18	
3615.00	Low	-40.41	-34.41	200	-13	-21.41	
3635.00	High	-40.37	-34.37	200	-13	-21.37	
3636.00	High	-39.13	-33.13	1000	-13	-20.13	
3645.00	High	-45.51	-39.51	1000	-25	-14.51	
3720.00	High	-51.53	-45.53	1000	-40	-5.53	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-54.93	-48.93	1000	-40	-8.93	Pass
3670.00	Low	-42.80	-36.80	1000	-25	-11.8	
3679.00	Low	-38.05	-32.05	1000	-13	-19.05	
3680.00	Low	-39.04	-33.04	200	-13	-20.04	
3700.00	High	-40.30	-34.3	200	-13	-21.3	
3701.00	High	-39.06	-33.06	1000	-13	-20.06	
3710.00	High	-45.23	-39.23	1000	-25	-14.23	
3720.00	High	-51.81	-45.81	1000	-40	-5.81	

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

\*\* - Total band edge = Maximum SA Reading over 1 chain + 10\*log(N) = SA reading +6 dB

\*\*\* - Margin = Total band edge – Specification limit



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

**Table 7.4.12 Emission outside the fundamental test results**

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 2  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 2 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3560.0 MHz</b>							
3530.00	Low	-55.07	-49.07	1000	-40	-9.07	Pass
3540.00	Low	-48.44	-42.44	1000	-25	-17.44	
3549.00	Low	-39.15	-33.15	1000	-13	-20.15	
3550.00	Low	-39.74	-33.74	200	-13	-20.74	
3570.00	High	-37.65	-31.65	200	-13	-18.65	
3571.00	High	-38.44	-32.44	1000	-13	-19.44	
3580.00	High	-44.42	-38.42	1000	-25	-13.42	
3720.00	High	-51.66	-45.66	1000	-40	-5.66	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.10	-49.10	1000	-40	-9.1	Pass
3605.00	Low	-47.21	-41.21	1000	-25	-16.21	
3614.00	Low	-38.22	-32.22	1000	-13	-19.22	
3615.00	Low	-38.47	-32.47	200	-13	-19.47	
3635.00	High	-38.35	-32.35	200	-13	-19.35	
3636.00	High	-38.68	-32.68	1000	-13	-19.68	
3645.00	High	-44.79	-38.79	1000	-25	-13.79	
3720.00	High	-51.71	-45.71	1000	-40	-5.71	
<b>High frequency 3690.0 MHz</b>							
3530.00	Low	-55.10	-49.10	1000	-40	-9.1	Pass
3670.00	Low	-45.30	-39.30	1000	-25	-14.3	
3679.00	Low	-37.86	-31.86	1000	-13	-18.86	
3680.00	Low	-37.93	-31.93	200	-13	-18.93	
3700.00	High	-38.49	-32.49	200	-13	-19.49	
3701.00	High	-37.97	-31.97	1000	-13	-18.97	
3710.00	High	-46.36	-40.36	1000	-25	-15.36	
3720.00	High	-51.66	-45.66	1000	-40	-5.66	



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Table 7.4.13 Emission outside the fundamental test results (continuation)

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 2  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 2 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-54.93	-48.93	1000	-40	-8.93	Pass
3540.00	Low	-45.56	-39.56	1000	-25	-14.56	
3549.00	Low	-39.13	-33.13	1000	-13	-20.13	
3550.00	Low	-39.63	-33.63	200	-13	-20.63	
3570.00	High	-38.30	-32.30	200	-13	-19.3	
3571.00	High	-38.21	-32.21	1000	-13	-19.21	
3580.00	High	-43.82	-37.82	1000	-25	-12.82	
3720.00	High	-51.62	-45.62	1000	-40	-5.62	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.07	-49.07	1000	-40	-9.07	Pass
3605.00	Low	-46.70	-40.70	1000	-25	-15.7	
3614.00	Low	-38.29	-32.29	1000	-13	-19.29	
3615.00	Low	-38.85	-32.85	200	-13	-19.85	
3635.00	High	-38.63	-32.63	200	-13	-19.63	
3636.00	High	-38.51	-32.51	1000	-13	-19.51	
3645.00	High	-44.69	-38.69	1000	-25	-13.69	
3720.00	High	-51.78	-45.78	1000	-40	-5.78	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-55.03	-49.03	1000	-40	-9.03	Pass
3670.00	Low	-45.61	-39.61	1000	-25	-14.61	
3679.00	Low	-38.56	-32.56	1000	-13	-19.56	
3680.00	Low	-38.66	-32.66	200	-13	-19.66	
3700.00	High	-38.89	-32.89	200	-13	-19.89	
3701.00	High	-38.18	-32.18	1000	-13	-19.18	
3710.00	High	-46.46	-40.46	1000	-25	-15.46	
3720.00	High	-51.48	-45.48	1000	-40	-5.48	



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Table 7.4.14 Emission outside the fundamental test results

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 3  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 3 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3560.0 MHz</b>							
3530.00	Low	-55.02	-49.02	1000	-40	-9.02	Pass
3540.00	Low	-48.48	-42.48	1000	-25	-17.48	
3549.00	Low	-38.50	-32.5	1000	-13	-19.5	
3550.00	Low	-40.03	-34.03	200	-13	-21.03	
3570.00	High	-38.69	-32.69	200	-13	-19.69	
3571.00	High	-38.72	-32.72	1000	-13	-19.72	
3580.00	High	-45.13	-39.13	1000	-25	-14.13	
3720.00	High	-51.63	-45.63	1000	-40	-5.63	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.06	-49.06	1000	-40	-9.06	Pass
3605.00	Low	-47.46	-41.46	1000	-25	-16.46	
3614.00	Low	-38.26	-32.26	1000	-13	-19.26	
3615.00	Low	-38.98	-32.98	200	-13	-19.98	
3635.00	High	-38.67	-32.67	200	-13	-19.67	
3636.00	High	-38.53	-32.53	1000	-13	-19.53	
3645.00	High	-44.22	-38.22	1000	-25	-13.22	
3720.00	High	-51.70	-45.7	1000	-40	-5.7	
<b>High frequency 3690.0 MHz</b>							
3530.00	Low	-53.51	-47.51	1000	-40	-7.51	Pass
3670.00	Low	-46.13	-40.13	1000	-25	-15.13	
3679.00	Low	-37.98	-31.98	1000	-13	-18.98	
3680.00	Low	-38.45	-32.45	200	-13	-19.45	
3700.00	High	-38.02	-32.02	200	-13	-19.02	
3701.00	High	-36.89	-30.89	1000	-13	-17.89	
3710.00	High	-45.37	-39.37	1000	-25	-14.37	
3720.00	High	-51.55	-45.55	1000	-40	-5.55	





<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Table 7.4.15 Emission outside the fundamental test results (continuation)

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 3  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 3 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-54.97	-48.97	1000	-40	-8.97	Pass
3540.00	Low	-47.62	-41.62	1000	-25	-16.62	
3549.00	Low	-39.42	-33.42	1000	-13	-20.42	
3550.00	Low	-40.12	-34.12	200	-13	-21.12	
3570.00	High	-39.14	-33.14	200	-13	-20.14	
3571.00	High	-38.61	-32.61	1000	-13	-19.61	
3580.00	High	-44.35	-38.35	1000	-25	-13.35	
3720.00	High	-51.58	-45.58	1000	-40	-5.58	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.17	-49.17	1000	-40	-9.17	Pass
3605.00	Low	-47.27	-41.27	1000	-25	-16.27	
3614.00	Low	-38.76	-32.76	1000	-13	-19.76	
3615.00	Low	-39.58	-33.58	200	-13	-20.58	
3635.00	High	-39.43	-33.43	200	-13	-20.43	
3636.00	High	-38.82	-32.82	1000	-13	-19.82	
3645.00	High	-45.84	-39.84	1000	-25	-14.84	
3720.00	High	-51.65	-45.65	1000	-40	-5.65	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-53.56	-47.56	1000	-40	-7.56	Pass
3670.00	Low	-44.28	-38.28	1000	-25	-13.28	
3679.00	Low	-38.31	-32.31	1000	-13	-19.31	
3680.00	Low	-39.22	-33.22	200	-13	-20.22	
3700.00	High	-40.12	-34.12	200	-13	-21.12	
3701.00	High	-38.11	-32.11	1000	-13	-19.11	
3710.00	High	-45.45	-39.45	1000	-25	-14.45	
3720.00	High	-51.47	-45.47	1000	-40	-5.47	



<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Table 7.4.16 Emission outside the fundamental test results

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 4  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 4 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>QPSK</b>							
<b>Low frequency 3560.0 MHz</b>							
3530.00	Low	-53.51	-47.51	1000	-40	-7.51	Pass
3540.00	Low	-46.67	-40.67	1000	-25	-15.67	
3549.00	Low	-40.14	-34.14	1000	-13	-21.14	
3550.00	Low	-40.26	-34.26	200	-13	-21.26	
3570.00	High	-39.19	-33.19	200	-13	-20.19	
3571.00	High	-38.92	-32.92	1000	-13	-19.92	
3580.00	High	-43.34	-37.34	1000	-25	-12.34	
3720.00	High	-51.68	-45.68	1000	-40	-5.68	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-54.92	-48.92	1000	-40	-8.92	Pass
3605.00	Low	-46.36	-40.36	1000	-25	-15.36	
3614.00	Low	-39.49	-33.49	1000	-13	-20.49	
3615.00	Low	-39.53	-33.53	200	-13	-20.53	
3635.00	High	-39.30	-33.30	200	-13	-20.3	
3636.00	High	-40.12	-34.12	1000	-13	-21.12	
3645.00	High	-45.72	-39.72	1000	-25	-14.72	
3720.00	High	-51.60	-45.60	1000	-40	-5.6	
<b>High frequency 3690.0 MHz</b>							
3530.00	Low	-55.04	-49.04	1000	-40	-9.04	Pass
3670.00	Low	-43.86	-37.86	1000	-25	-12.86	
3679.00	Low	-37.46	-31.46	1000	-13	-18.46	
3680.00	Low	-38.29	-32.29	200	-13	-19.29	
3700.00	High	-38.78	-32.78	200	-13	-19.78	
3701.00	High	-38.45	-32.45	1000	-13	-19.45	
3710.00	High	-44.69	-38.69	1000	-25	-13.69	
3720.00	High	-51.80	-45.80	1000	-40	-5.8	



HERMON LABORATORIES

<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure:</b> Section 96.41(e)(3)			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Table 7.4.17 Emission outside the fundamental test results (continuation)

ASSIGNED FREQUENCY RANGE: 3550.0 –3700.0 MHz  
 DETECTOR USED: Average (gated)  
 VIDEO BANDWIDTH: ≥ Resolution bandwidth  
 NUMBER OF CHAINS: 4  
 ANTENNA PORT: Worst case  
 CHANNEL SPACING: 20MHz

Frequency MHz	Band edge	SA reading over 4 chain, dBm	Total band edge*, dBm	RBW, kHz	Limit, dBm	Margin, dB	Verdict
<b>256 QAM</b>							
<b>Low frequency 3555.0 MHz</b>							
3530.00	Low	-53.28	-47.28	1000	-40	-7.28	Pass
3540.00	Low	-49.06	-43.06	1000	-25	-18.06	
3549.00	Low	-40.64	-34.64	1000	-13	-21.64	
3550.00	Low	-41.03	-35.03	200	-13	-22.03	
3570.00	High	-40.04	-34.04	200	-13	-21.04	
3571.00	High	-39.42	-33.42	1000	-13	-20.42	
3580.00	High	-46.12	-40.12	1000	-25	-15.12	
3720.00	High	-51.71	-45.71	1000	-40	-5.71	
<b>Mid frequency 3625.0 MHz</b>							
3530.00	Low	-55.03	-49.03	1000	-40	-9.03	Pass
3605.00	Low	-45.60	-39.6	1000	-25	-14.6	
3614.00	Low	-39.12	-33.12	1000	-13	-20.12	
3615.00	Low	-39.79	-33.79	200	-13	-20.79	
3635.00	High	-39.60	-33.6	200	-13	-20.6	
3636.00	High	-40.05	-34.05	1000	-13	-21.05	
3645.00	High	-44.41	-38.41	1000	-25	-13.41	
3720.00	High	-51.69	-45.69	1000	-40	-5.69	
<b>High frequency 3695.0 MHz</b>							
3530.00	Low	-55.06	-49.06	1000	-40	-9.06	Pass
3670.00	Low	-44.09	-38.09	1000	-25	-13.09	
3679.00	Low	-38.59	-32.59	1000	-13	-19.59	
3680.00	Low	-39.04	-33.04	200	-13	-20.04	
3700.00	High	-39.31	-33.31	200	-13	-20.31	
3701.00	High	-38.98	-32.98	1000	-13	-19.98	
3710.00	High	-45.77	-39.77	1000	-25	-14.77	
3720.00	High	-51.74	-45.74	1000	-40	-5.74	

Reference numbers of test equipment used

HL 3301	HL 3302	HL 4355	HL 4366	HL 6143		
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Full description is given in Appendix A.



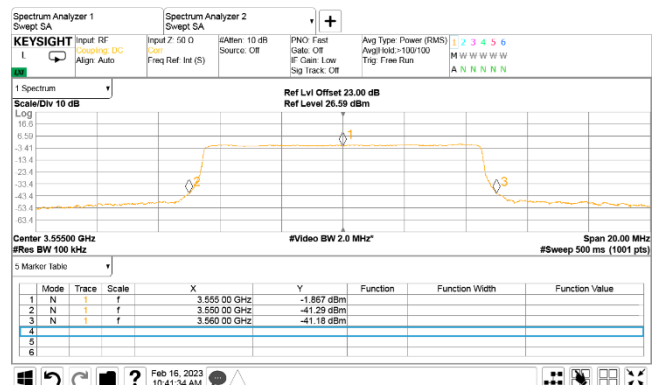
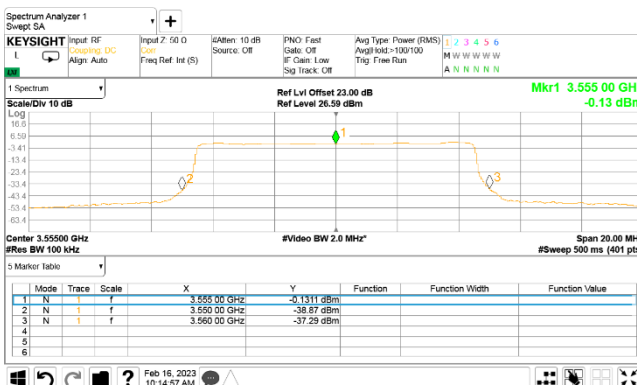
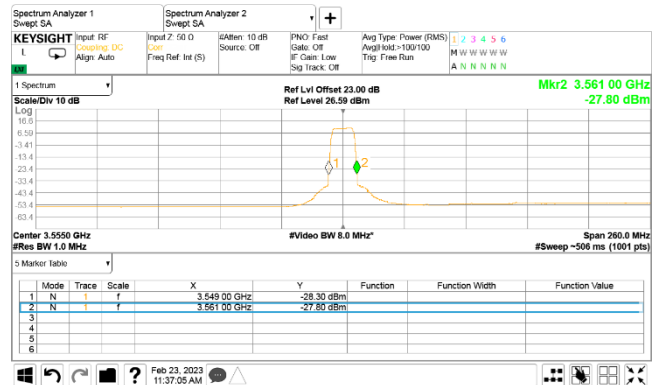
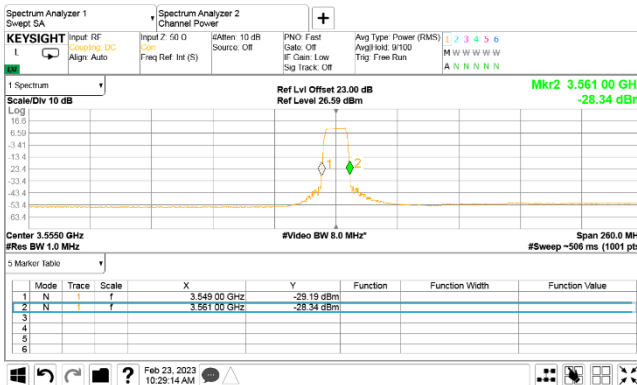
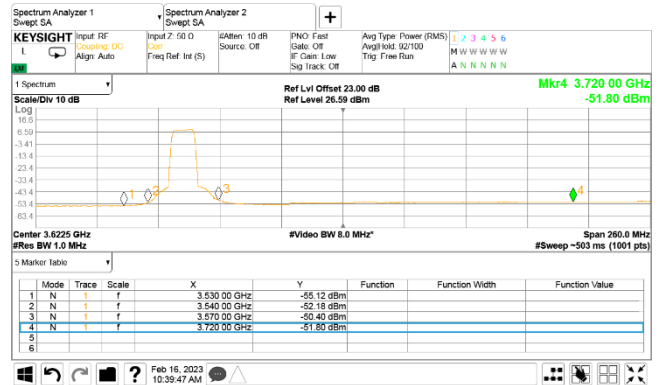
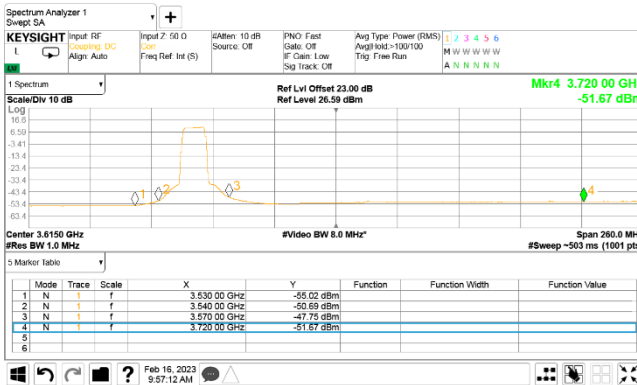
HERMON LABORATORIES

<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-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Plot 7.4.1 Emission mask test results at low carrier frequency

CHANNEL SPACING:  
ANTENNA CHAIN:  
Modulation: QPSK

10 MHz  
1  
Modulation: 256QAM





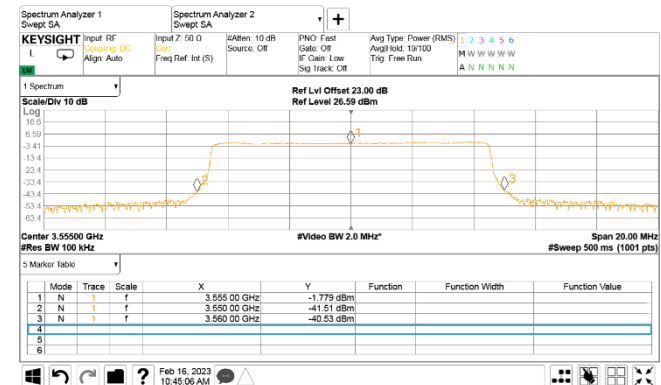
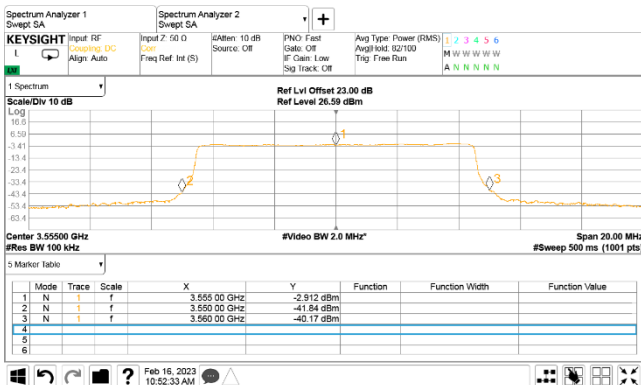
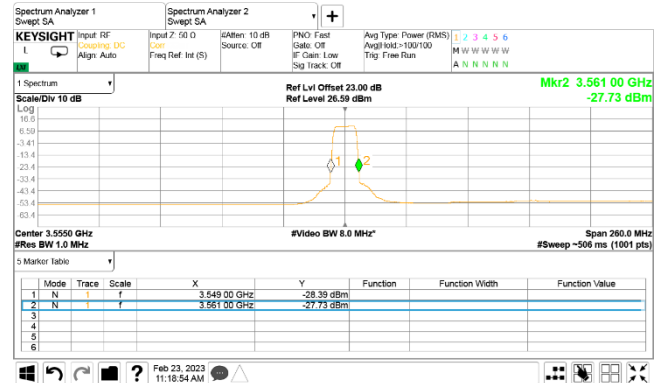
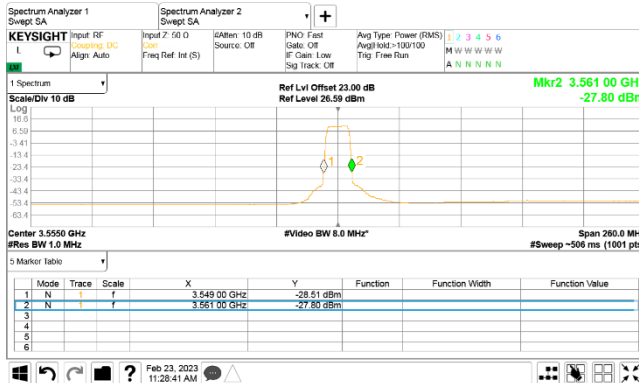
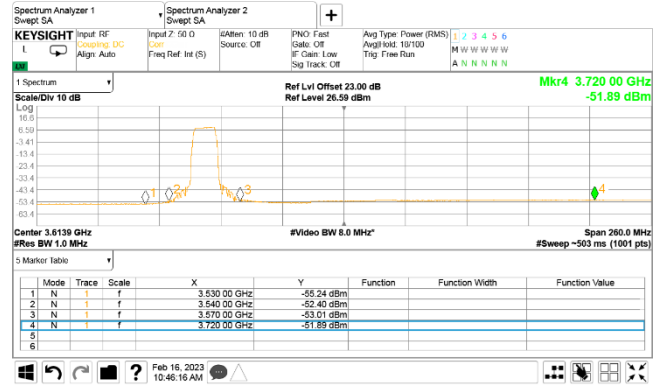
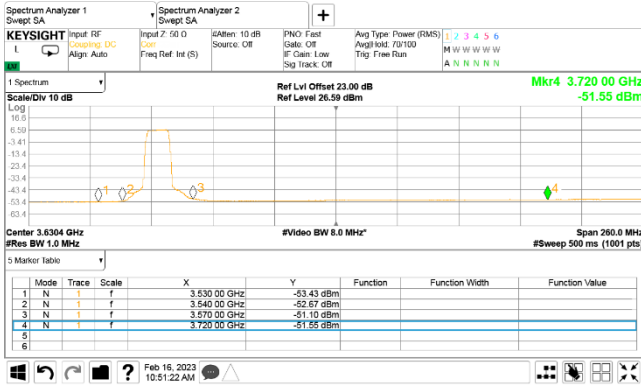
HERMON LABORATORIES

<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>	<b>PASS</b>
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Plot 7.4.2 Emission mask test results at low carrier frequency

CHANNEL SPACING:  
ANTENNA CHAIN:  
Modulation: QPSK

10 MHz  
2  
Modulation: 256QAM





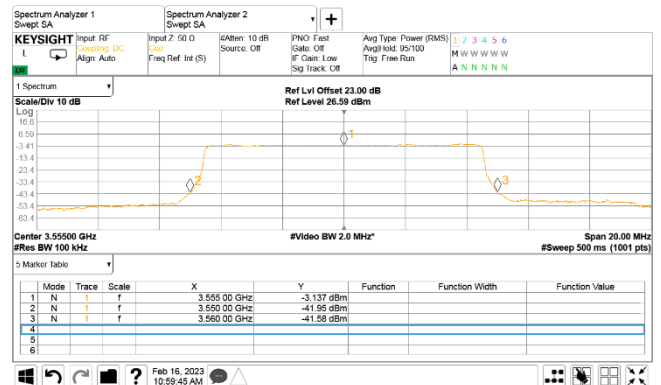
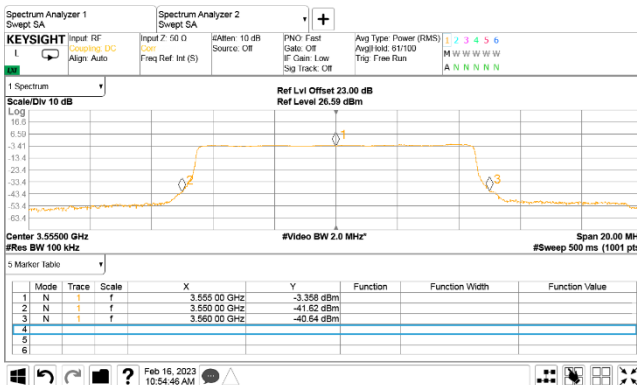
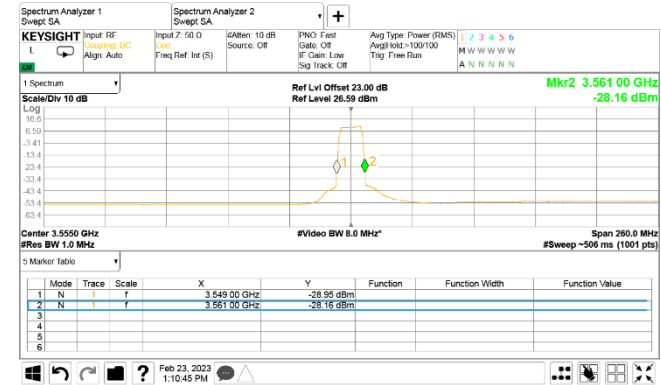
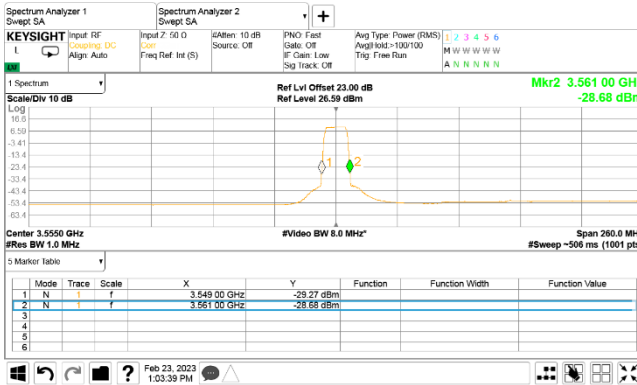
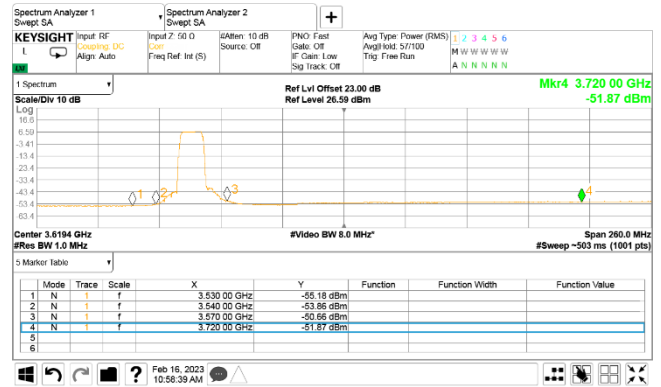
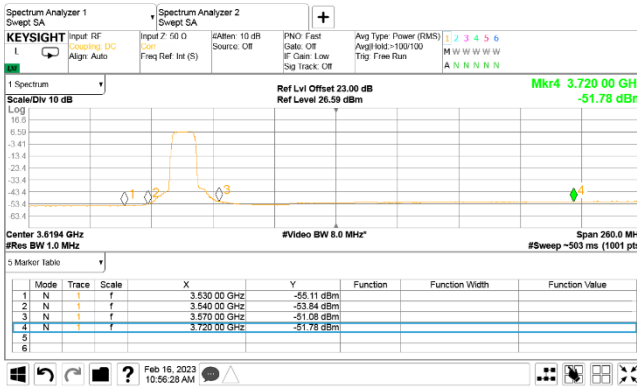
HERMON LABORATORIES

<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>	<b>PASS</b>
<b>Date(s):</b> 19-Feb-23 - 16-Feb-23			
<b>Temperature:</b> 21 °C	<b>Relative Humidity:</b> 54 %	<b>Air Pressure:</b> 1012 hPa	<b>Power:</b> 110 VAC, 50 Hz
<b>Remarks:</b>			

Plot 7.4.3 Emission mask test results at low carrier frequency

CHANNEL SPACING:  
ANTENNA CHAIN:  
Modulation: QPSK

10 MHz  
3  
Modulation: 256QAM





HERMON LABORATORIES

<b>Test specification: Section 96.41(e), Emission mask</b>			
<b>Test procedure: Section 96.41(e)(3)</b>			
<b>Test mode: Compliance</b>		<b>Verdict: PASS</b>	
<b>Date(s): 19-Feb-23 - 16-Feb-23</b>			
<b>Temperature: 21 °C</b>	<b>Relative Humidity: 54 %</b>	<b>Air Pressure: 1012 hPa</b>	<b>Power: 110 VAC, 50 Hz</b>
<b>Remarks:</b>			

Plot 7.4.4 Emission mask test results at low carrier frequency

CHANNEL SPACING:  
ANTENNA CHAIN:  
Modulation: QPSK

10 MHz  
4  
Modulation: 256QAM

