



Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Table 7.4.2 Peak output power test results

ASSIGNED FREQUENCY: 2400.0 – 2483.5 MHz
TEST DISTANCE: 3 m
TEST SITE: Semi anechoic chamber
EUT HEIGHT: 1.5 m
DETECTOR USED: Peak
TEST ANTENNA TYPE: Double ridged guide (above 1000 MHz)
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 40 MHz
VIDEO BANDWIDTH: 40 MHz
CHANNEL BANDWIDTH: 20 MHz
MODULATION: CCK
BITRATE: 1 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2412.0	104.82	Horizontal	1.8	155	2.3	7.32	30.0	-22.68	Pass
2442.0	104.29	Horizontal	1.5	-150	2.3	6.79	30.0	-23.21	Pass
2462.0	105.61	Horizontal	1.5	-138	2.3	8.11	30.0	-21.89	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION: CCK
BITRATE: 11 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2412.0	105.67	Horizontal	1.8	151	2.3	8.14	30.0	-21.86	Pass
2442.0	105.39	Horizontal	1.8	140	2.3	7.86	30.0	-22.14	Pass
2462.0	106.04	Horizontal	1.8	141	2.3	8.54	30.0	-21.49	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION: BPSK
BITRATE: 6 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2412.0	104.92	Horizontal	1.8	140	2.3	7.42	30.0	-22.58	Pass
2442.0	105.51	Horizontal	1.8	144	2.3	8.01	30.0	-21.99	Pass
2462.0	105.70	Horizontal	1.8	140	2.3	8.20	30.0	-21.80	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION: 64-QAM
BITRATE: 54 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2412.0	104.59	Horizontal	1.8	-145	2.3	7.06	30.0	-22.94	Pass
2442.0	104.25	Horizontal	1.8	-150	2.3	6.72	30.0	-23.28	Pass
2462.0	104.67	Horizontal	1.8	-138	2.3	7.14	30.0	-22.86	Pass



Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2-4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

CHANNEL BANDWIDTH: 20 MHz
MODULATION: BPSK
BITRATE: 6.5 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2412.0	105.78	Horizontal	1.5	-163	2.3	8.28	30.0	-21.75	Pass
2442.0	105.20	Horizontal	1.6	-160	2.3	7.70	30.0	-22.33	Pass
2462.0	105.33	Horizontal	1.6	-160	2.3	7.83	30.0	-22.20	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION: 64-QAM
BITRATE: 65 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2412.0	104.18	Horizontal	1.8	-145	2.3	6.65	30.0	-23.35	Pass
2442.0	104.06	Horizontal	1.8	-150	2.3	6.53	30.0	-23.47	Pass
2462.0	104.61	Horizontal	1.8	-138	2.3	7.08	30.0	-22.92	Pass

CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2422.0	105.60	Horizontal	1.8	-145	0	8.07	30.0	-21.93	Pass
2437.0	105.17	Horizontal	1.8	-150	0	7.64	30.0	-22.36	Pass
2452.0	105.58	Horizontal	1.8	-148	0	8.05	30.0	-21.95	Pass

CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: 64-QAM / 65 Mbps

Frequency, MHz	Field strength, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	EUT antenna gain, dBi	Peak output power, dBm**	Limit, dBm	Margin, dB***	Verdict
2422.0	104.84	Vertical	1.55	-145	2.3	7.34	30.0	7.34	Pass
2437.0	104.82	Vertical	1.55	-148	2.3	7.32	30.0	7.32	Pass
2452.0	105.14	Vertical	1.55	-140	2.3	7.64	30.0	7.64	Pass

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

** - Peak output power was calculated from the field strength of carrier as follows: $P = (E \times d)^2 / (30 \times G)$,

where P is the peak output power in W, E is the field strength in V/m, d is the test distance in meters and G is the transmitter numeric antenna gain over an isotropic radiator. The above equation was converted in logarithmic units for 3 m test

distance: *Peak output power in dBm = Field strength in dB(μV/m) - Transmitter antenna gain in dBi - 95.2 dB*

*** - Margin = Peak output power - specification limit.

Note: Maximum peak output power was obtained at Unom (115%Unom, 85%Unom) input power voltage.

Reference numbers of test equipment used

HL 7802	HL 5902	HL 3903	HL 4933				
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Full description is given in Appendix A.

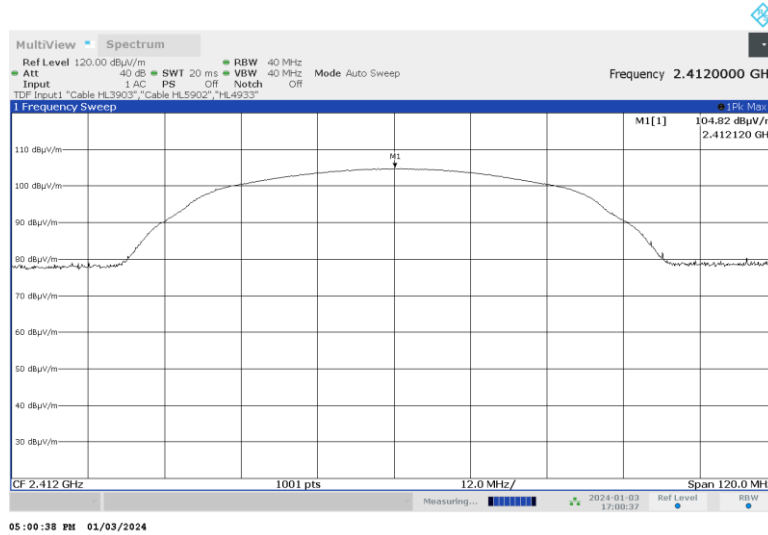


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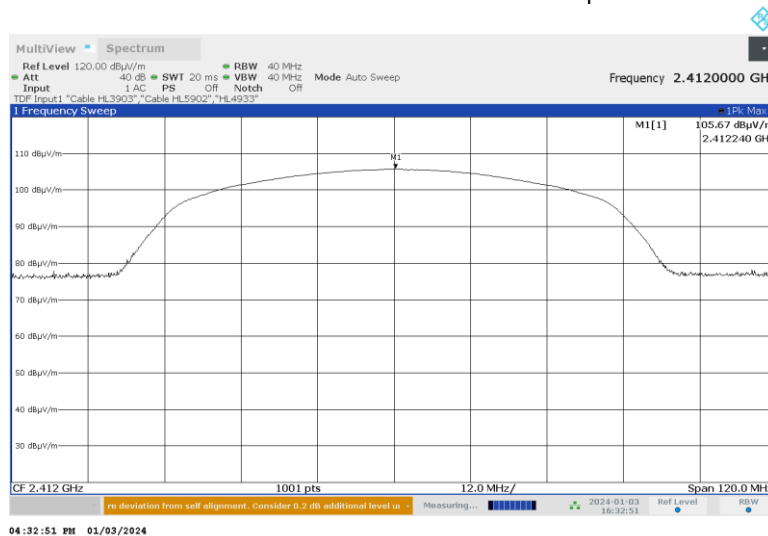
Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.1 Field strength of carrier at low frequency

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK/1 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK/11 Mbps



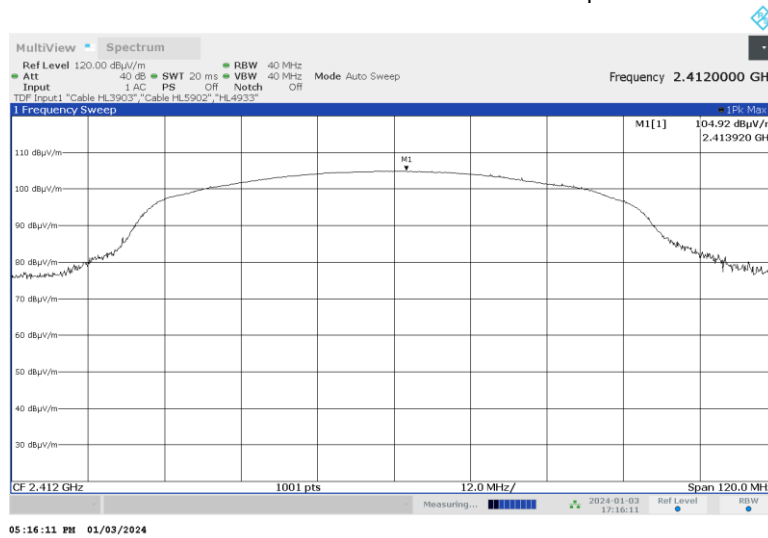


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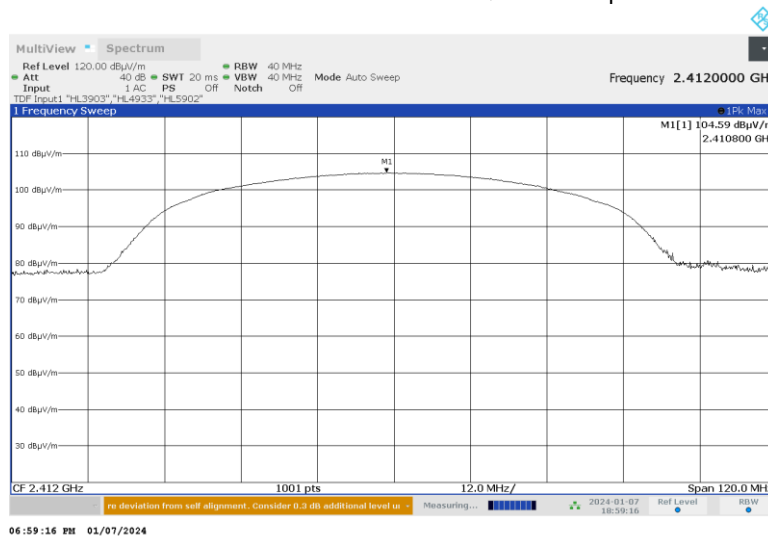
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Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.2 Field strength of carrier at low frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK/6 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM/ 54 Mbps



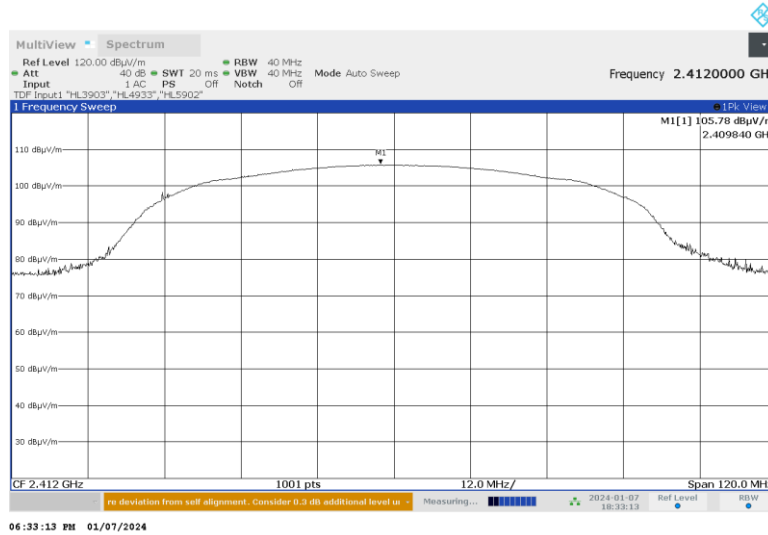


HERMON LABORATORIES

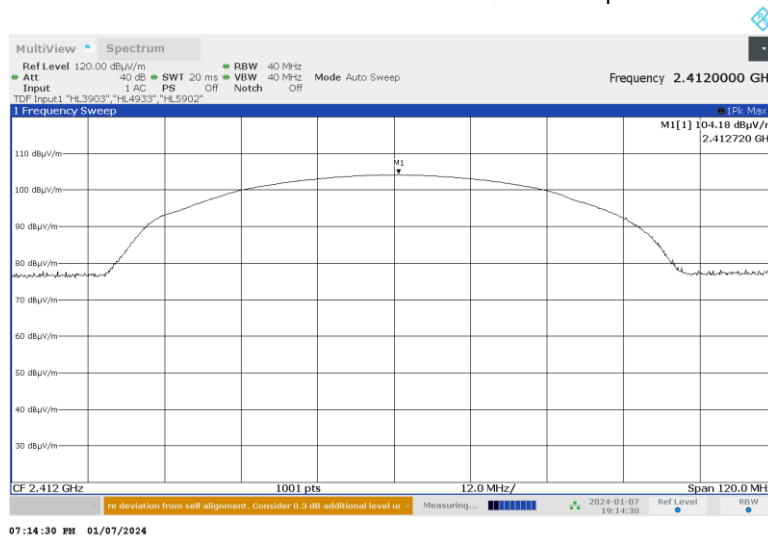
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Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.3 Field strength of carrier at low frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK/6.5 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM/65 Mbps



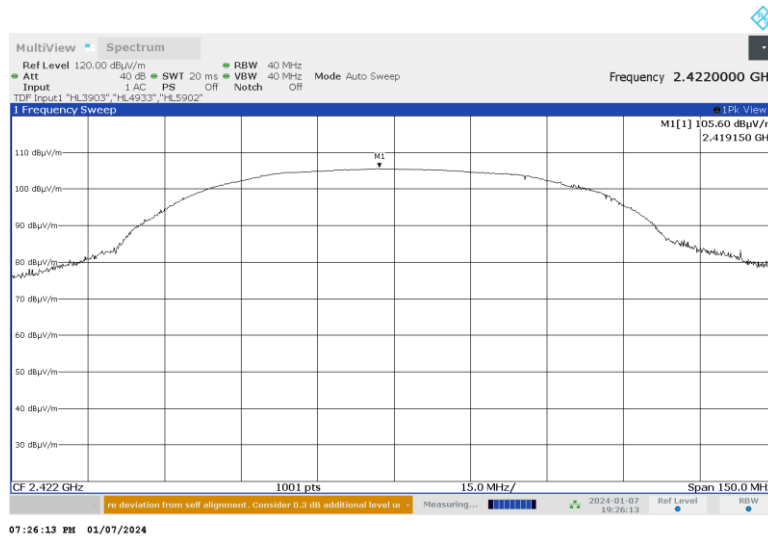


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Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

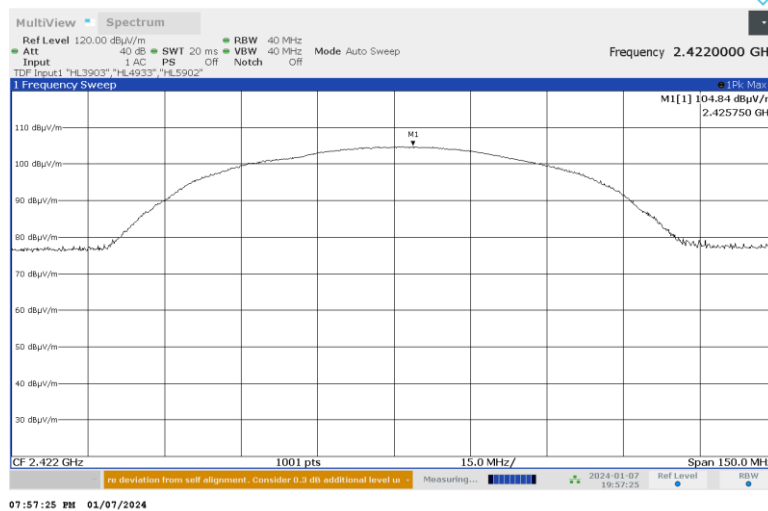
Plot 7.4.4 Field strength of carrier at low frequency (continuation)

CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps



CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: 64QAM / 65 Mbps

Plot 7.4.5 Field strength of carrier at low frequency



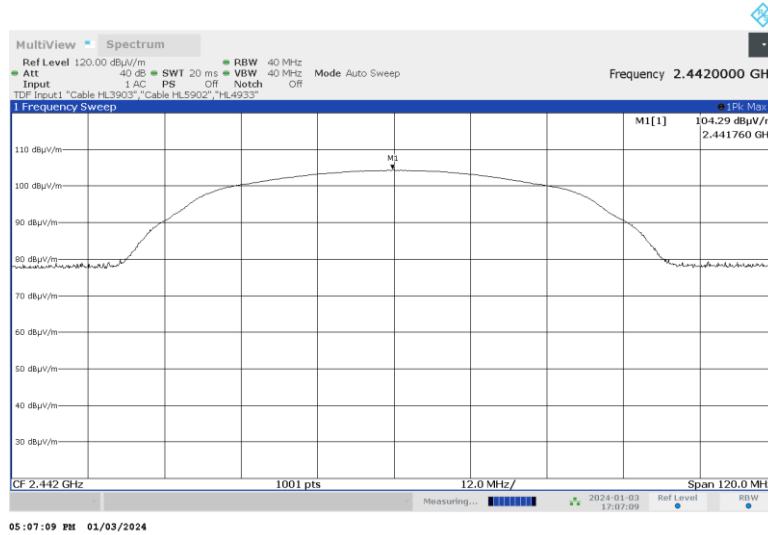


HERMON LABORATORIES

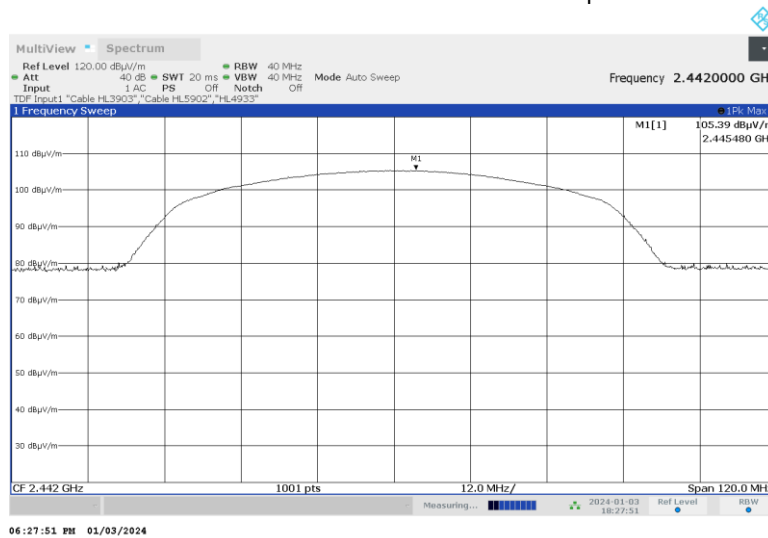
Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.6 Field strength of carrier at mid frequency

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK/1 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK/11 Mbps



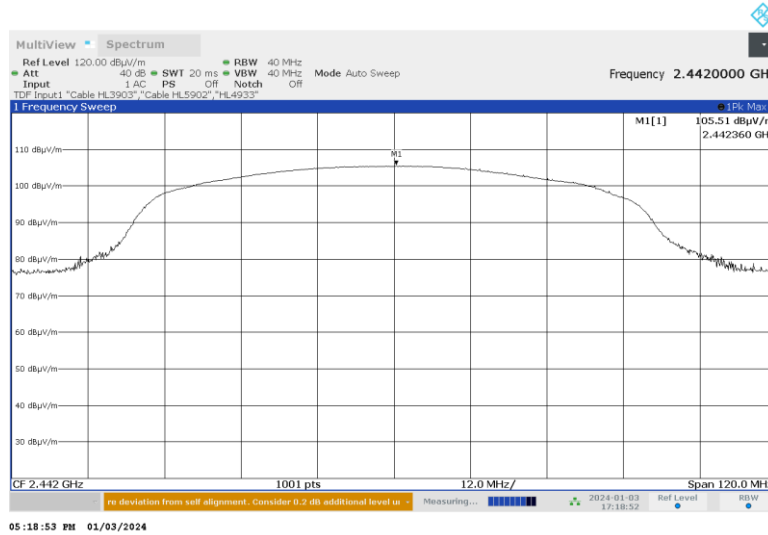


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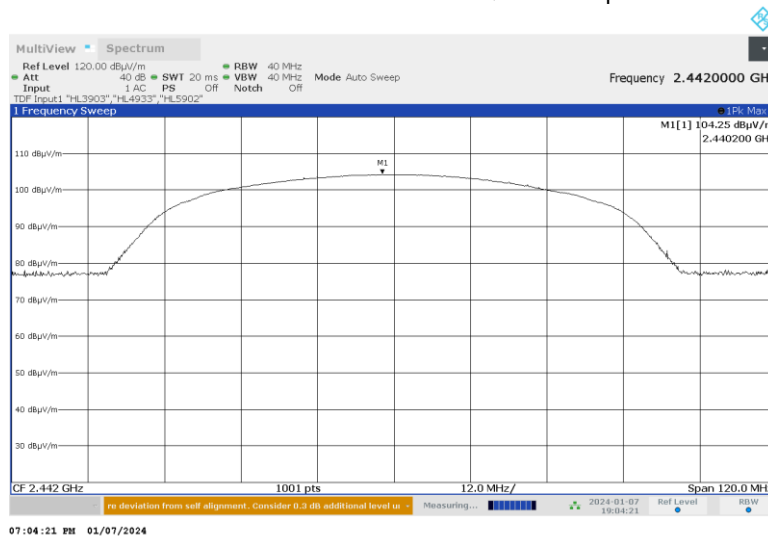
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Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.7 Field strength of carrier at mid frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK/6 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM/54 Mbps



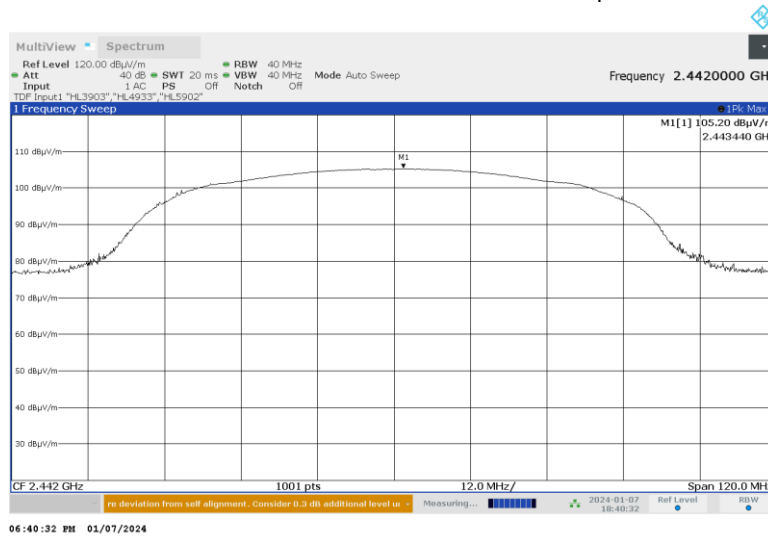


HERMON LABORATORIES

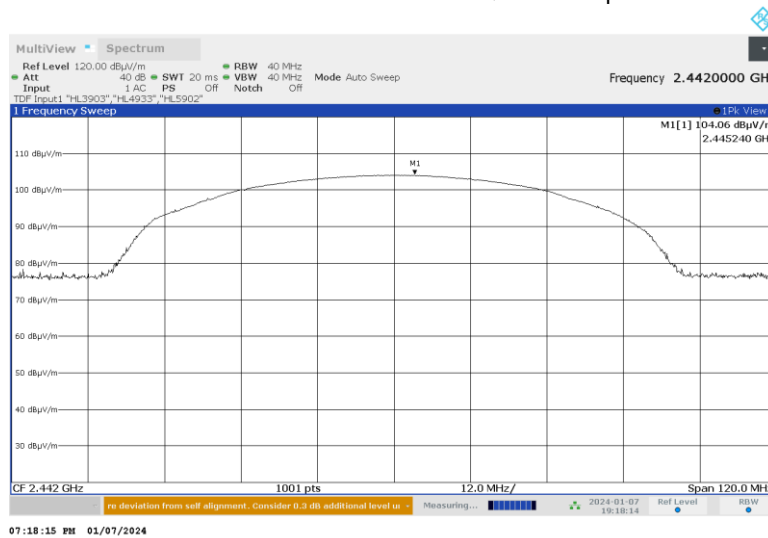
Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.8 Field strength of carrier at mid frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK/6.5 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM/65 Mbps



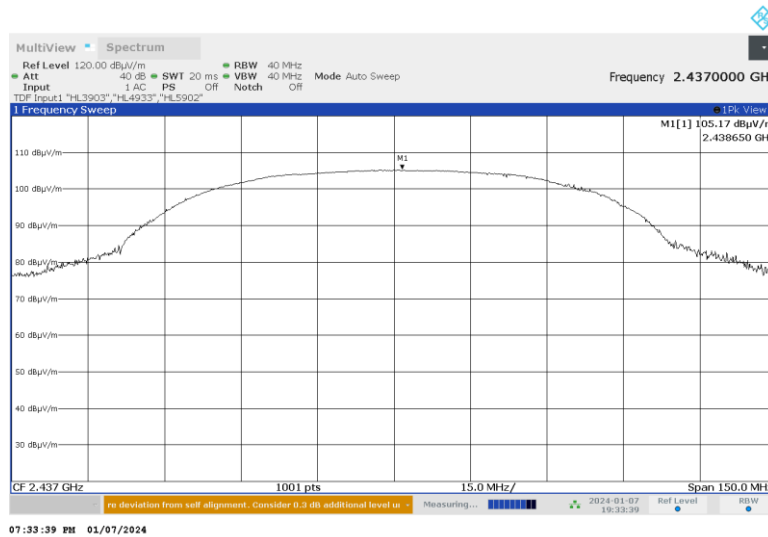


HERMON LABORATORIES

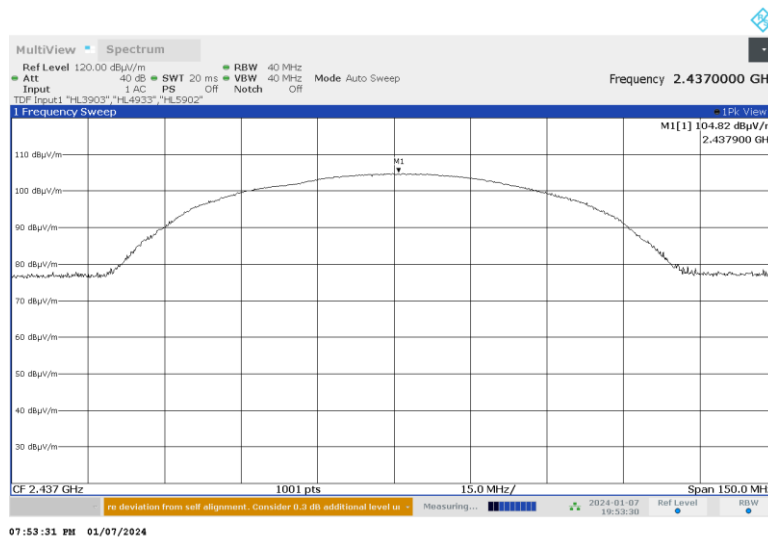
Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.9 Field strength of carrier at mid frequency (continuation)

CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps



CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: 64QAM / 65 Mbps



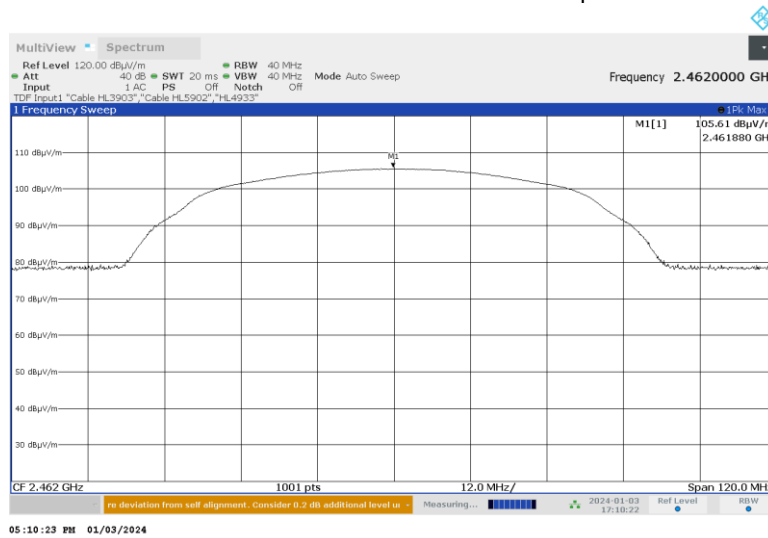


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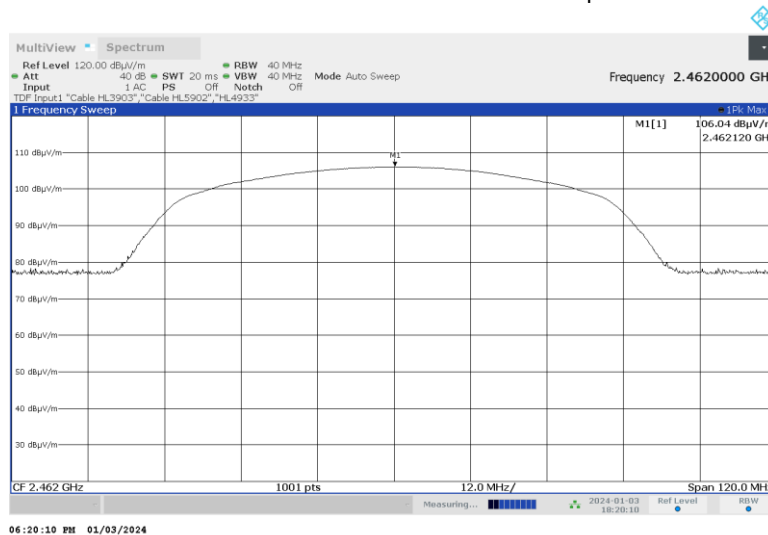
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Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.10 Field strength of carrier at high frequency

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK/1 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK/11 Mbps



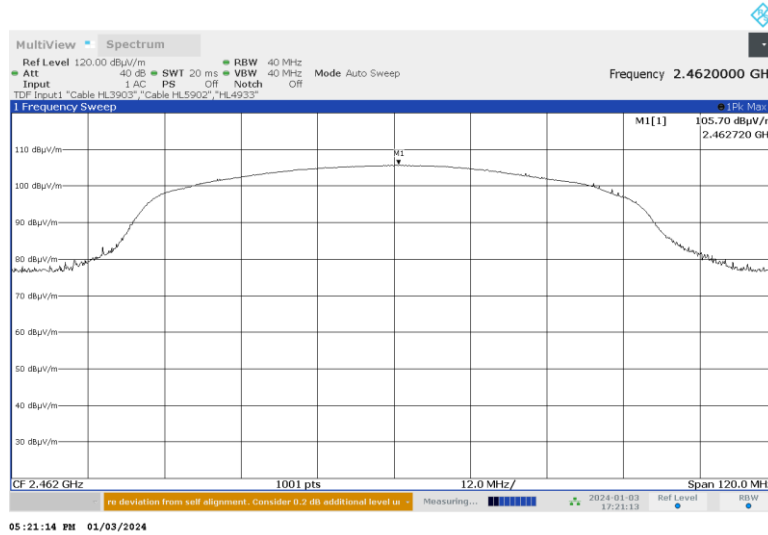


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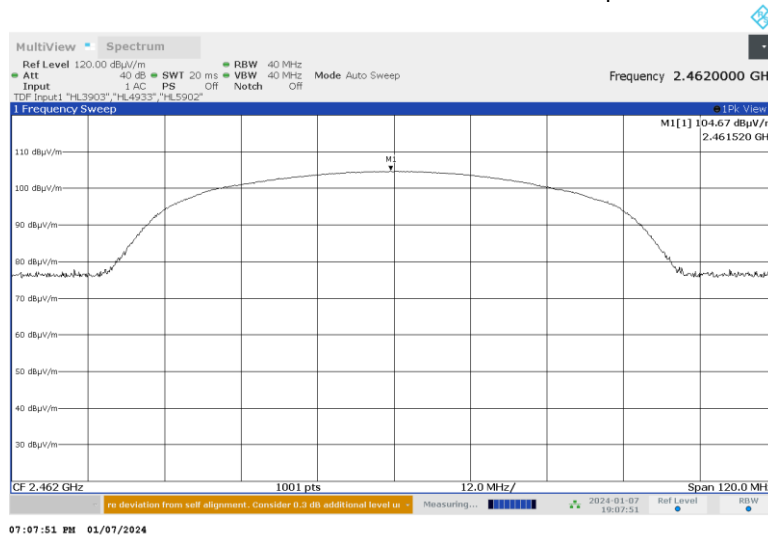
Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.11 Field strength of carrier at high frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK/6 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM/54 Mbps



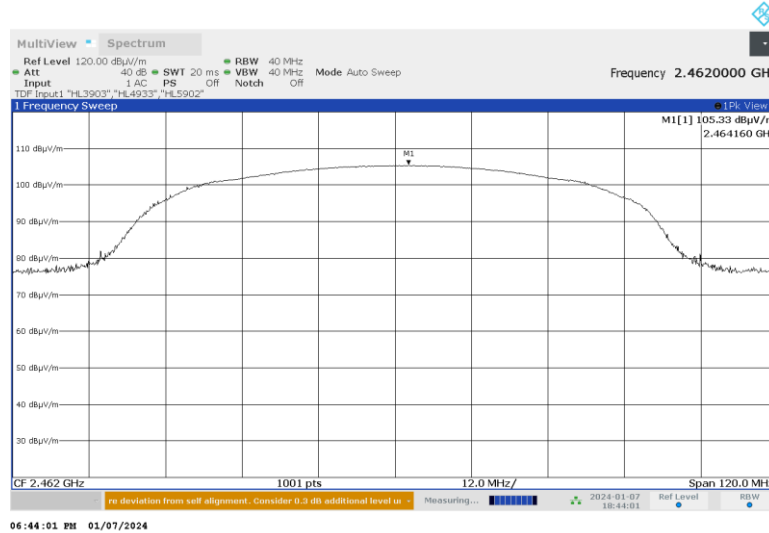


HERMON LABORATORIES

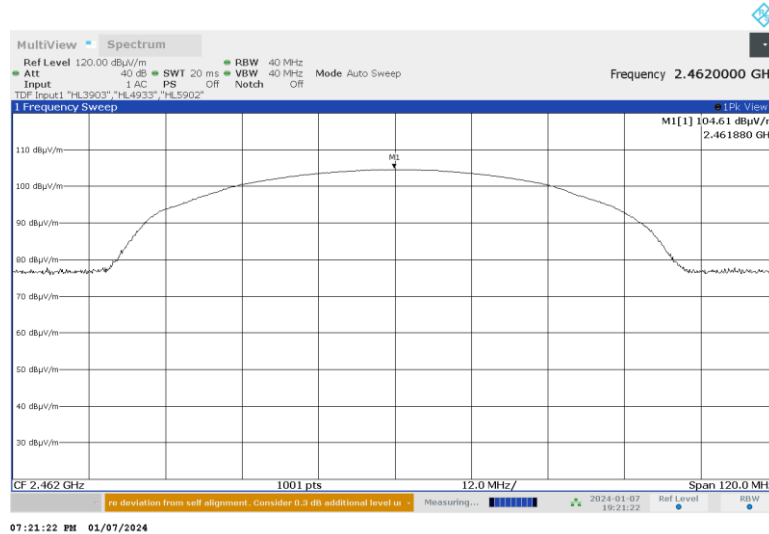
Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.12 Field strength of carrier at high frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK/6.5 Mbps



CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM/65 Mbps



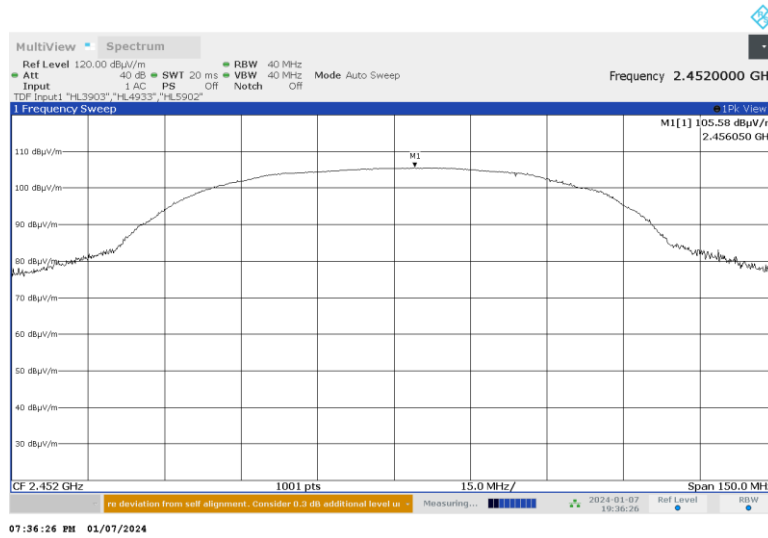


HERMON LABORATORIES

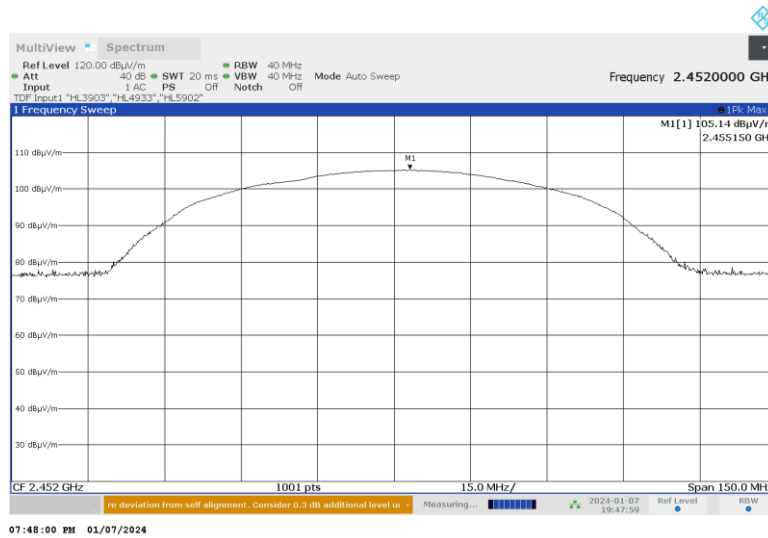
Test specification: Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power			
Test procedure: ANSI C63.10 sections 11.9.2.2.4			
Test mode: Compliance		Verdict: PASS	
Date(s): 12-Sep-23 - 13-Sep-23			
Temperature: 24 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 5 VDC
Remarks:			

Plot 7.4.13 Field strength of carrier at high frequency (continuation)

CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps



CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: 64QAM / 65 Mbps





Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

7.5 Band edge radiated emissions

7.5.1 General

This test was performed to measure emissions, radiated from the EUT at the assigned frequency band edges. Specification test limits are given in Table 7.5.1.

Table 7.5.1 Band edge emission limits

Output power	Assigned frequency, MHz	Attenuation below carrier*, dBc	Field strength at 3 m within restricted bands, dB(µV/m)	
			Peak	Average
Peak	2400.0 – 2483.5	20.0	74.0	54.0

* - Band edge emission limit is provided in terms of attenuation below the peak of modulated carrier measured with the same resolution bandwidth.

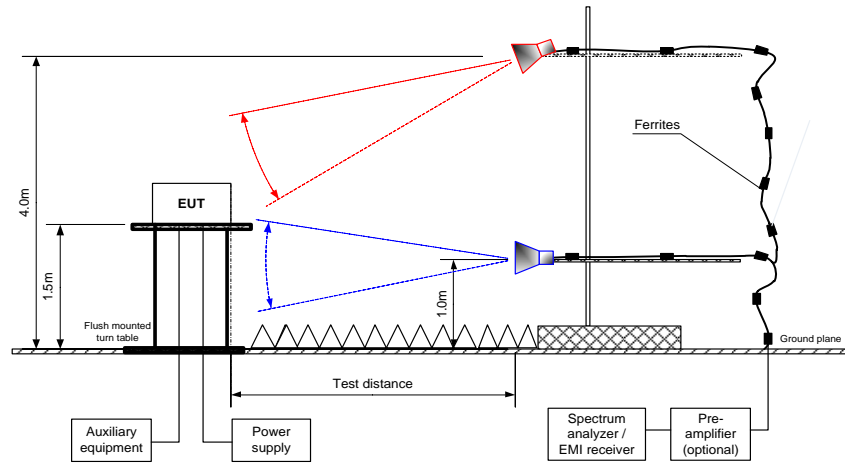
7.5.2 Test procedure

- 7.5.2.1 The EUT was set up as shown in Figure 7.5.1, energized normally modulated at the maximum data rate and its proper operation was checked.
- 7.5.2.2 The EUT was adjusted to produce maximum available to end user RF output power at the lowest carrier frequency.
- 7.5.2.3 The spectrum analyzer span was set to capture the carrier frequency and associated modulation products. The resolution bandwidth was set wider than 1 % of the frequency span.
- 7.5.2.4 The spectrum analyzer was set in max hold mode and allowed trace to stabilize. The highest emission level within the authorized band was measured.
- 7.5.2.5 The maximum band edge emission and modulation product outside of the band were measured as provided in Table 7.5.2 and associated plots and referenced to the highest emission level measured within the authorized band.
- 7.5.2.6 The above procedure was repeated with the EUT adjusted to produce maximum RF output power at the highest carrier frequency.
- 7.5.2.7 The above procedure was repeated with the frequency hopping function enabled.



Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance			Verdict: PASS
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

Figure 7.5.1 Band edge emission test setup





Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

Table 7.5.2 Band edge emission outside restricted bands test results

ASSIGNED FREQUENCY RANGE: 2400.0 – 2483.5 MHz
DETECTOR USED: Peak
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
RESOLUTION BANDWIDTH: 100 kHz
VIDEO BANDWIDTH: ≥ RBW

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK / 11 Mbps

Frequency, MHz	Band edge emission, dBm	Emission at carrier, dBm	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2395.989	45.45	91.70	46.25	20	-26.25	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK / 11Mbps

Frequency, MHz	Band edge emission, dBμV/m	Emission at carrier, dBμV/m	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2396.165	43.81	91.79	47.98	20	-27.98	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK / 6 Mbps

Frequency, MHz	Band edge emission, dBμV/m	Emission at carrier, dBμV/m	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2395.132	56.46	87.64	31.18	20.0	-11.18	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps

Frequency, MHz	Band edge emission, dBμV/m	Emission at carrier, dBμV/m	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2398.846	58.10	87.66	29.56	20.0	-9.56	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64QAM / 54 Mbps

Frequency, MHz	Band edge emission, dBμV/m	Emission at carrier, dBμV/m	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2397.000	43.34	84.26	40.92	20.0	-20.92	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64QAM / 65 Mbps

Frequency, MHz	Band edge emission, dBμV/m	Emission at carrier, dBμV/m	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2397.000	42.10	83.31	41.21	20.0	-21.21	Pass



Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

Table 7.5.3 Band edge emission outside restricted bands test results (continuation)

ASSIGNED FREQUENCY RANGE: 2400.0 – 2483.5 MHz
DETECTOR USED: Peak
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
RESOLUTION BANDWIDTH: 100 kHz
VIDEO BANDWIDTH: ≥ RBW

CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps

Frequency, MHz	Band edge emission, dBµV/m	Emission at carrier, dBµV/m	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2399.494	62.31	84.95	22.04	20.0	-2.04	Pass

CHANNEL BANDWIDTH: 40 MHz
MODULATION/BITRATE: 64-QAM / 65 Mbps

Frequency, MHz	Band edge emission, dBµV/m	Emission at carrier, dBµV/m	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
2399.494	54.38	80.43	26.05	20.0	-6.05	Pass

*- Margin = Attenuation below carrier – specification limit.



Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

Table 7.5.4 Band edge emission inside restricted bands test results

ASSIGNED FREQUENCY RANGE: 2400.0 – 2483.5 MHz
DETECTOR USED: Peak
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
VIDEO BANDWIDTH: ≥ RBW

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK / 1 Mbps

Frequency, MHz	Peak field strength			Average field strength			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2386.380	47.68	74.0	-26.32	37.48	54.0	-16.52	Pass
2487.890	48.91	74.0	-25.05	39.57	54.0	-14.43	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: CCK / 11 Mbps

Frequency, MHz	Peak field strength			Average field strength(VBW=1 kHz)			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2296.860	48.44	74.0	-25.66	36.73	54.0	-17.27	Pass
2487.890	48.63	74.0	-25.37	38.07	54.0	-15.93	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK / 6 Mbps

Frequency, MHz	Peak field strength			Average field strength			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2389.860	60.19	74.0	-13.81	42.40	54.0	-11.60	Pass
2483.760	64.29	74.0	-9.71	46.49	54.0	-7.51	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps

Frequency, MHz	Peak field strength			Average field strength			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2389.860	63.06	74.0	-10.94	44.11	54.0	-9.89	Pass
2483.760	70.23	74.0	-3.77	48.58	54.0	-5.42	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM / 54 Mbps

Frequency, MHz	Peak field strengt			Average field strength			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2389.860	49.39	74.0	-24.61	35.44	54.0	-18.57	Pass
2483.760	56.53	74.0	-17.47	37.41	54.0	-16.59	Pass

CHANNEL BANDWIDTH: 20 MHz
MODULATION/BITRATE: 64 QAM / 65 Mbps

Frequency, MHz	Peak field strength(VBW=8 MHz)			Average field strength(VBW=1 kHz)			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2389.860	49.69	74.0	-24.31	35.30	54.0	-18.70	Pass
2484.270	53.88	74.0	-20.12	37.47	54.0	16.53	Pass



Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

Table 7.5.5 Band edge emission inside restricted bands test results

ASSIGNED FREQUENCY RANGE: 2400.0 – 2483.5 MHz
 DETECTOR USED: Peak
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 VIDEO BANDWIDTH: ≥ RBW

CHANNEL BANDWIDTH: 40 MHz
 MODULATION/BITRATE: BPSK / 6.5 Mbps

Frequency, MHz	Peak field strength			Average field strength			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2387.830	64.86	74	-9.14	48.20	54	-5.80	Pass
2483.760	69.28	74	-4.72	53.37	54	-0.63	Pass

CHANNEL BANDWIDTH: 40 MHz
 MODULATION/BITRATE: 64-QAM / 65 Mbps

Frequency, MHz	Peak field strength(VBW=8 MHz)			Average field strength(VBW=1 kHz)			Verdict
	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
2389.860	50.95	74	-23.05	35.51	54	-18.49	Pass
2483.760	55.93	74	-18.07	38.46	54	-15.54	Pass

Reference numbers of test equipment used

HL 7802	HL 5902	HL 3903	HL 4933				
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Full description is given in Appendix A.

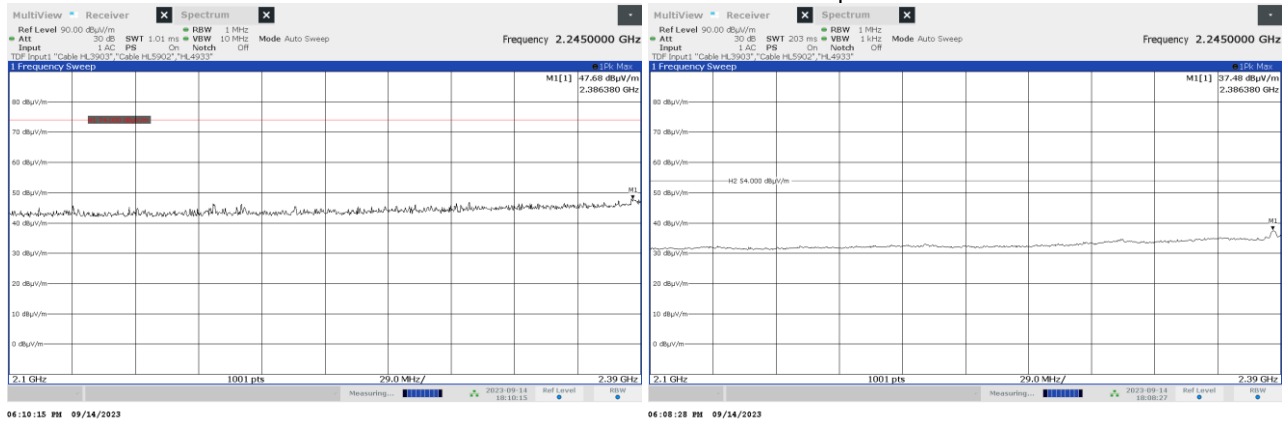


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

Plot 7.5.1 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: CCK / 1 Mbps



Plot 7.5.2 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: CCK / 1 Mbps

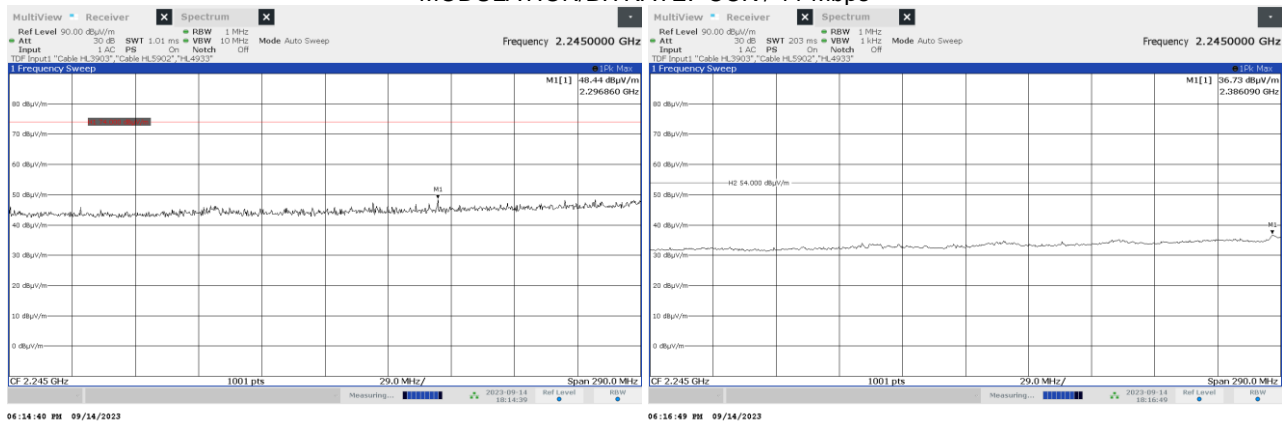




Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

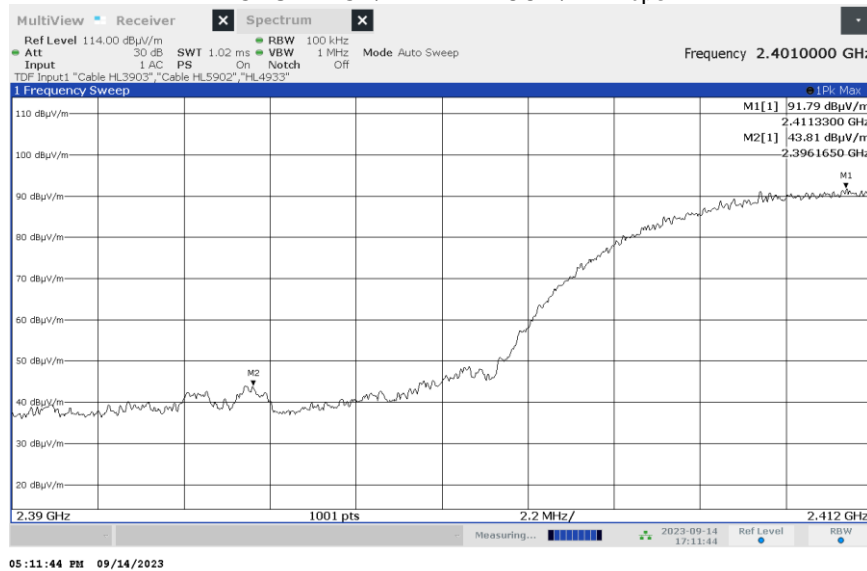
Plot 7.5.3 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: CCK / 11 Mbps



Plot 7.5.4 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: CCK / 11 Mbps



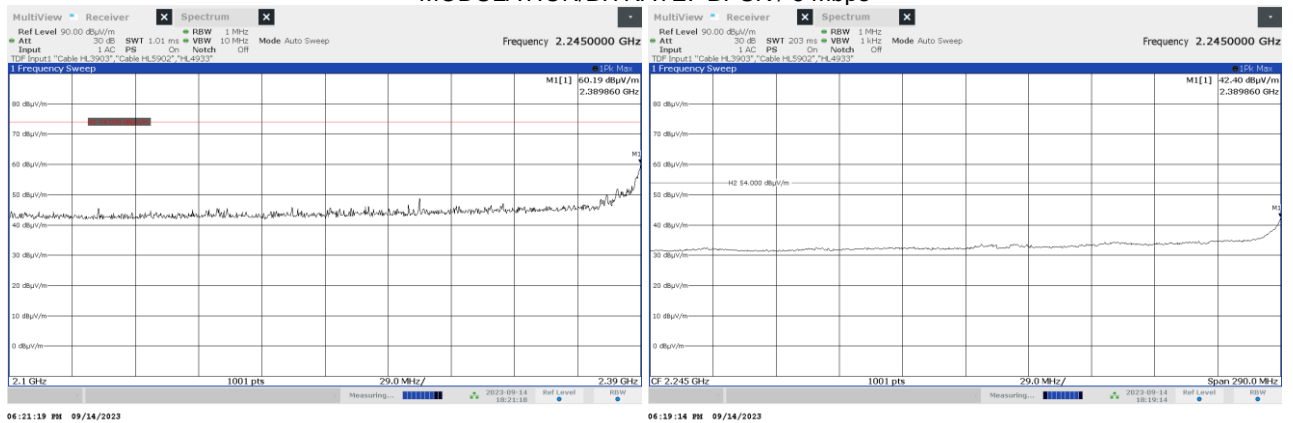


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

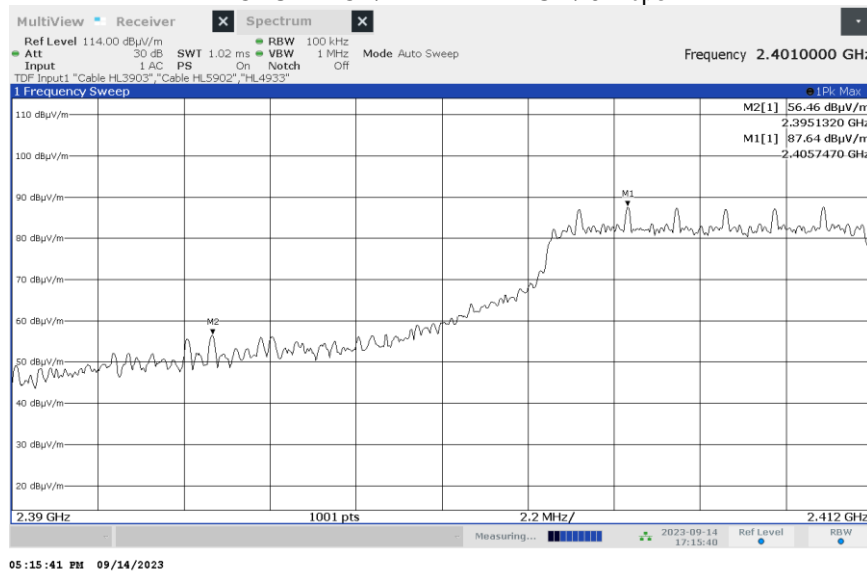
Plot 7.5.5 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: BPSK / 6 Mbps



Plot 7.5.6 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: BPSK / 6 Mbps



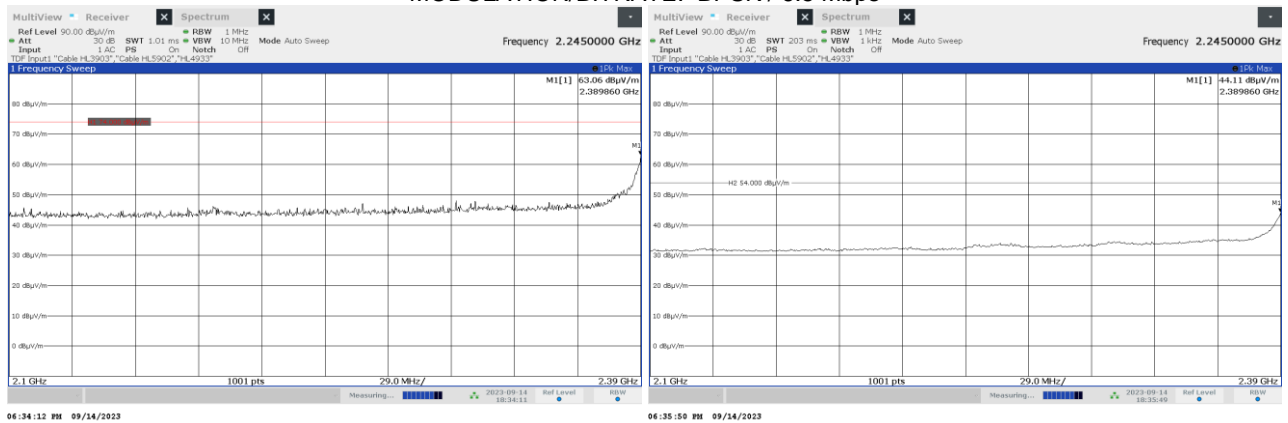


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

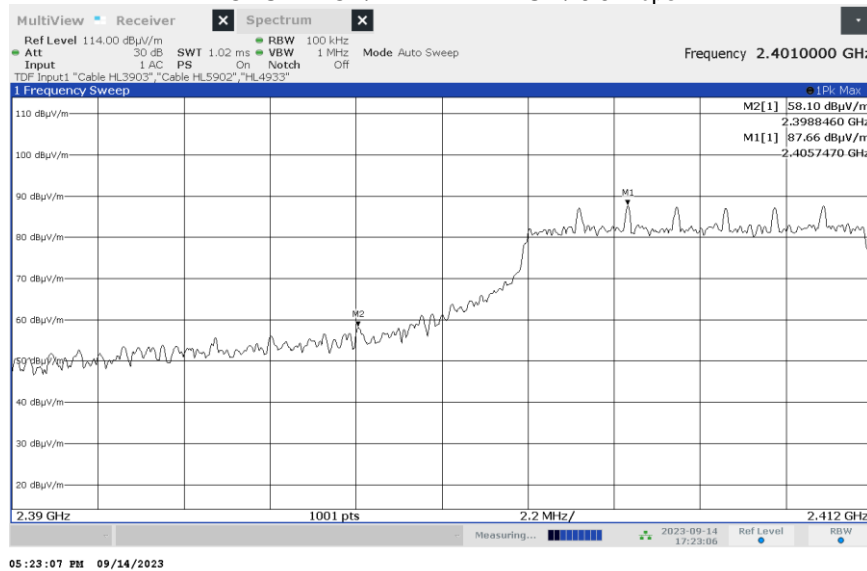
Plot 7.5.7 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps



Plot 7.5.8 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps



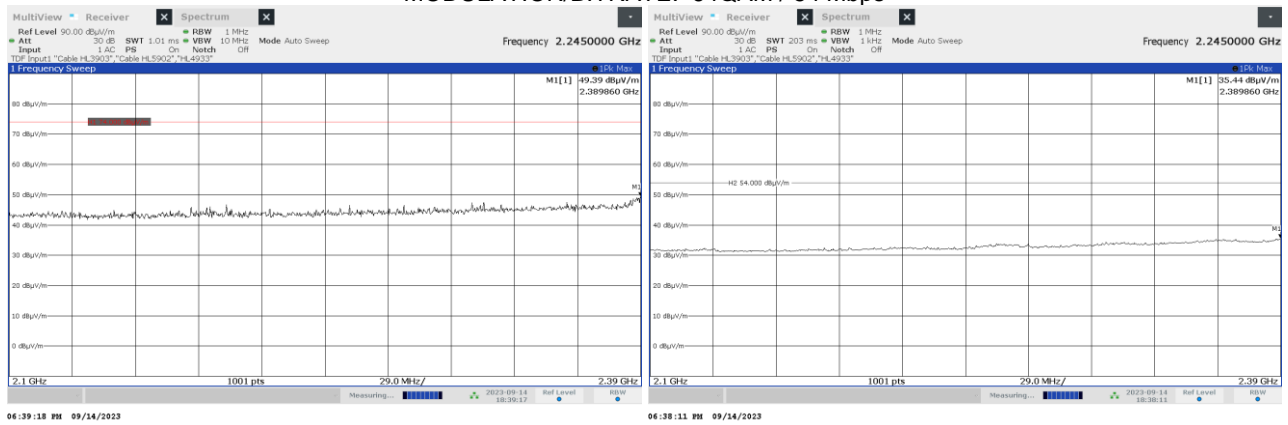


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

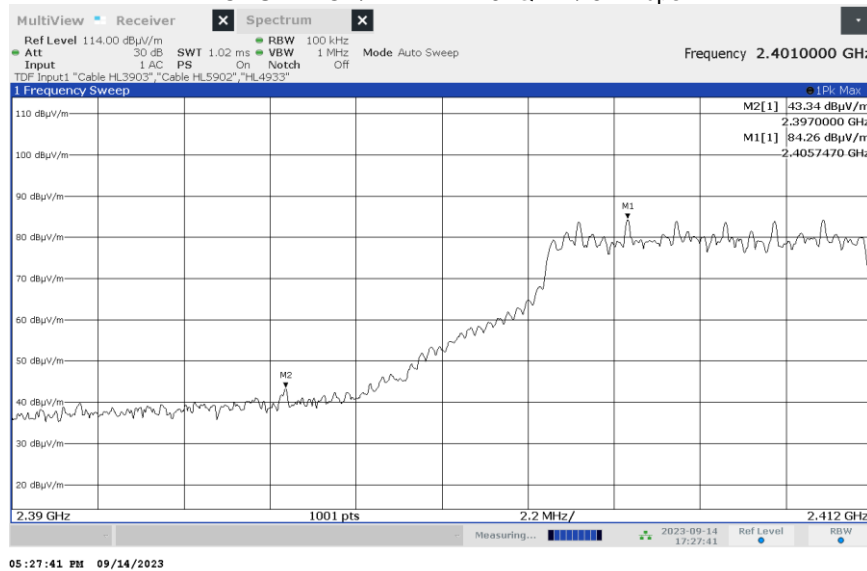
Plot 7.5.9 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: 64QAM / 54 Mbps



Plot 7.5.10 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: 64QAM / 54 Mbps



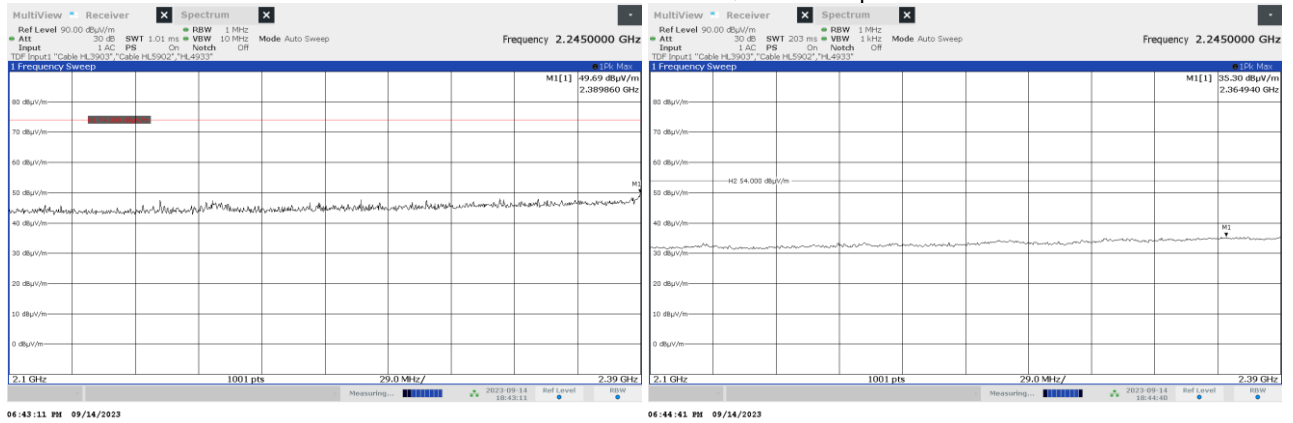


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

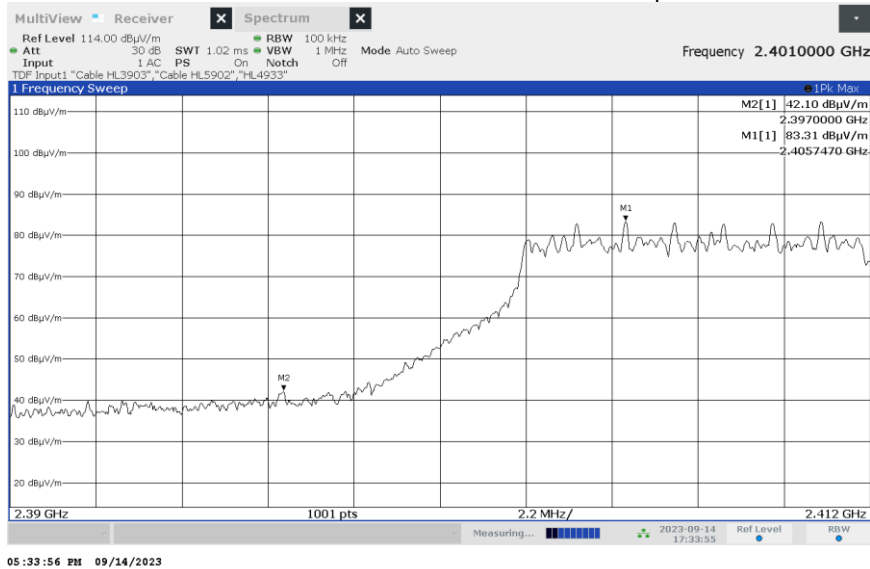
Plot 7.5.11 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: 64QAM / 65 Mbps



Plot 7.5.12 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: 64QAM / 65 Mbps



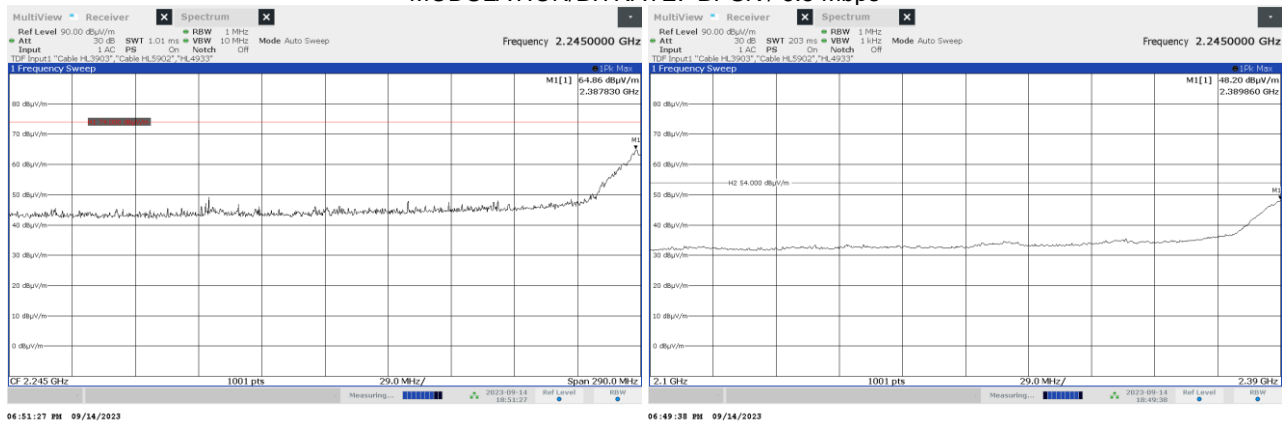


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

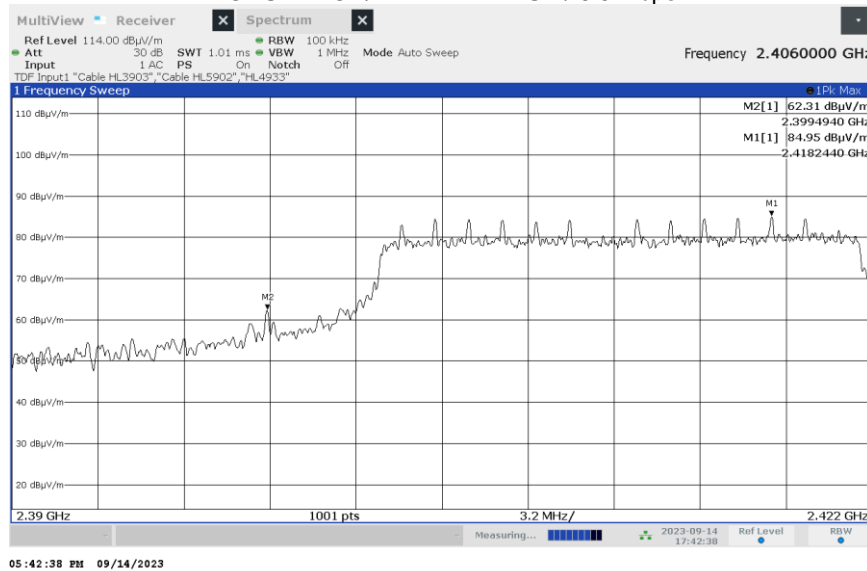
Plot 7.5.13 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 40MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps



Plot 7.5.14 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 40MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps



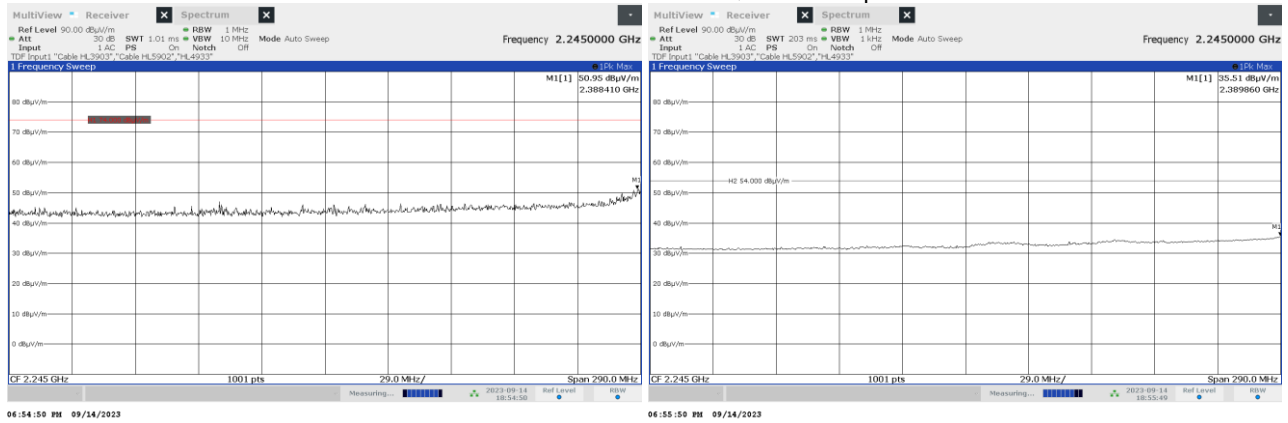


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

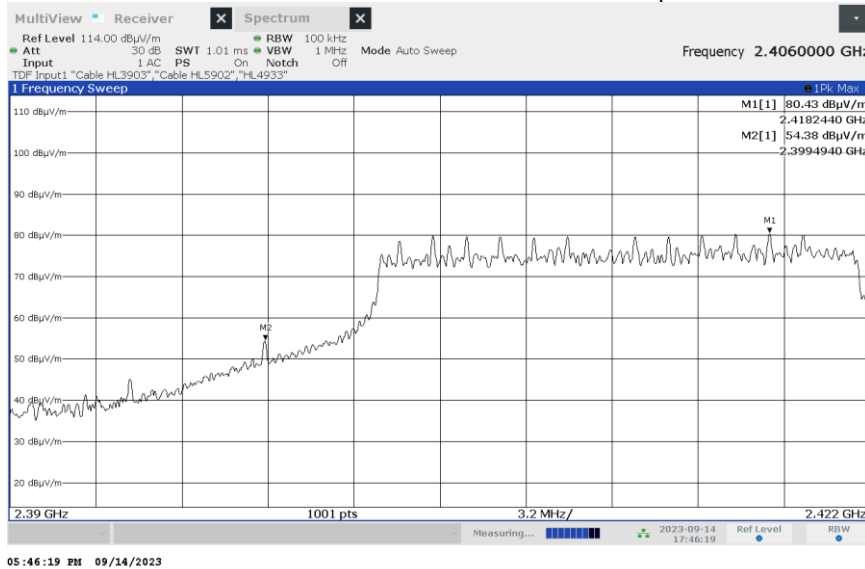
Plot 7.5.15 The highest emission level within restricted band at low carrier frequency

CHANNEL BANDWIDTH: 40MHz
MODULATION/BITRATE: 64-QAM / 65 Mbps



Plot 7.5.16 The highest emission level outside restricted band at low carrier frequency

CHANNEL BANDWIDTH: 40MHz
MODULATION/BITRATE: 64-QAM / 65 Mbps



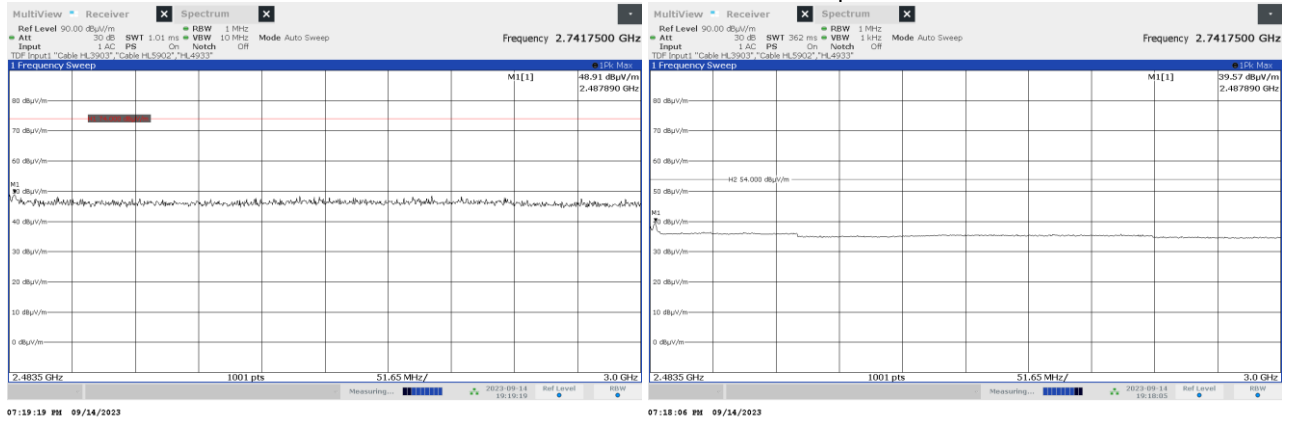


HERMON LABORATORIES

Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

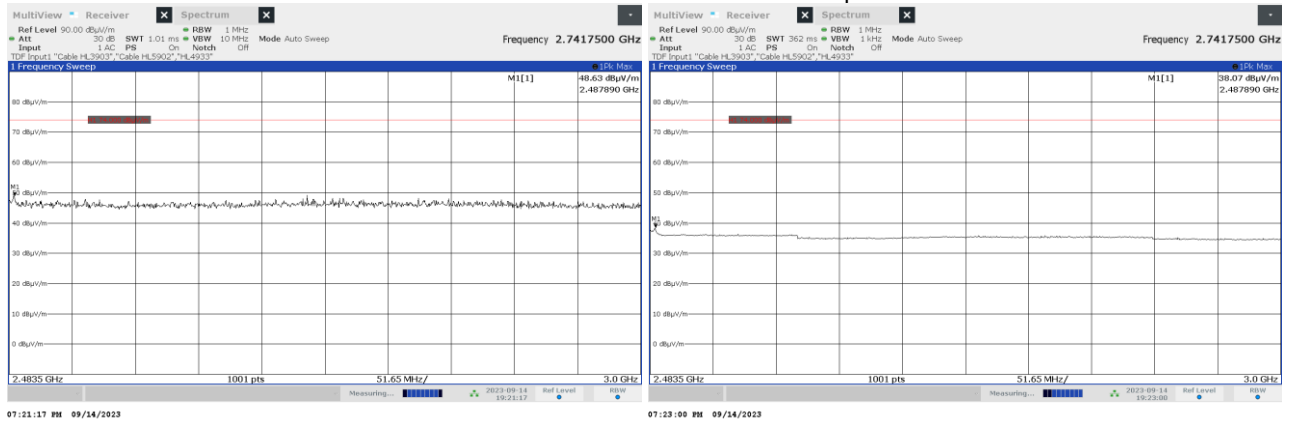
Plot 7.5.17 The highest emission level within restricted band at high carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: CCK / 1 Mbps



Plot 7.5.18 The highest emission level within restricted band at high carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: CCK / 11 Mbps

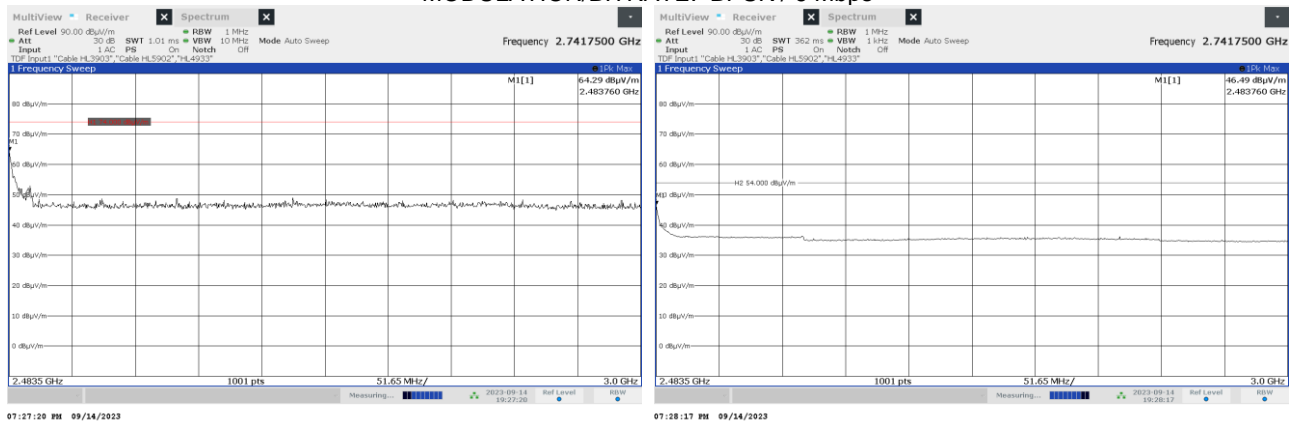




Test specification: Section 15.247(d) / RSS-247 section 5.5, Band edge emissions			
Test procedure: ANSI C63.10 section 11.12.1			
Test mode: Compliance		Verdict: PASS	
Date(s): 14-Sep-23			
Temperature: 24 °C	Relative Humidity: 44 %	Air Pressure: 1010 hPa	Power: 5 VDC
Remarks:			

Plot 7.5.19 The highest emission level within restricted band at high carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: BPSK / 6 Mbps



Plot 7.5.20 The highest emission level within restricted band at high carrier frequency

CHANNEL BANDWIDTH: 20MHz
MODULATION/BITRATE: BPSK / 6.5 Mbps

