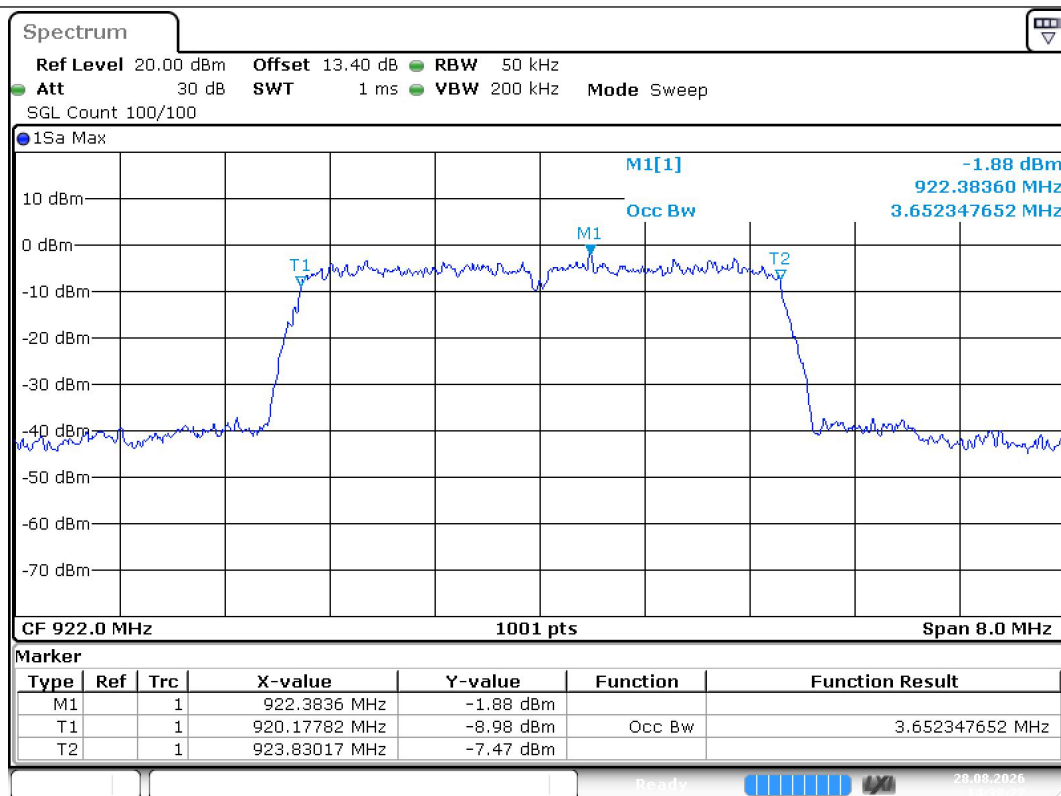
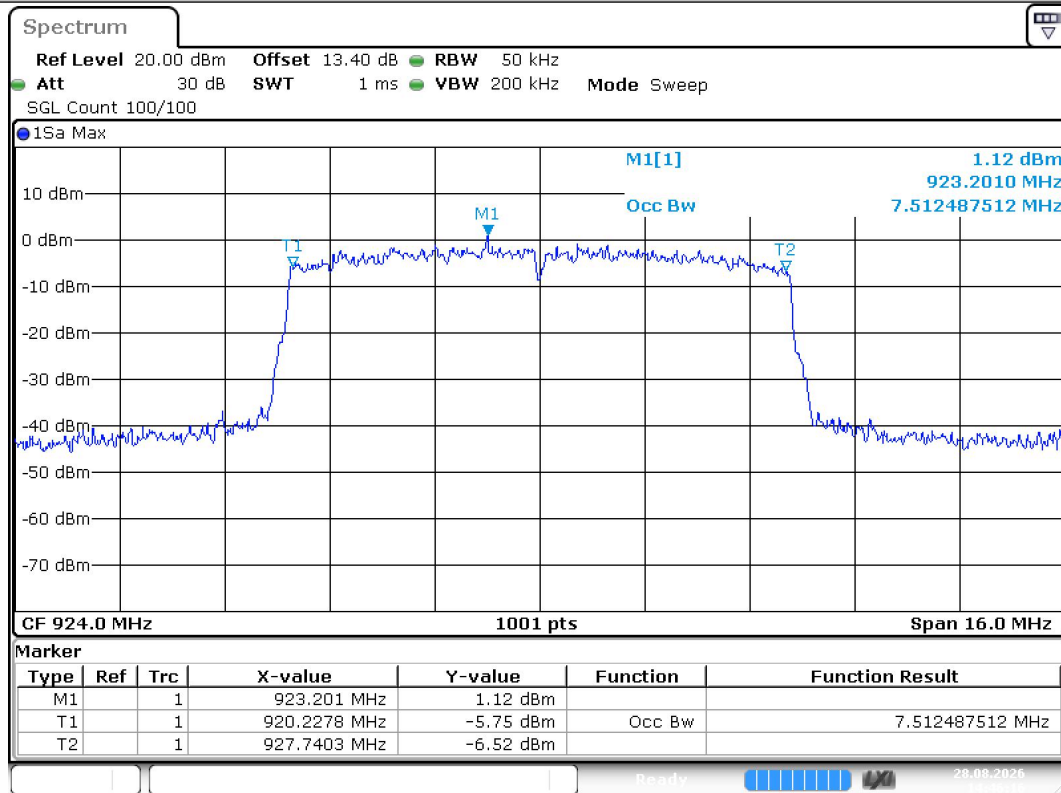




Date: 28.AUG.2026 14:38:27

4M-Ant1-922



Date: 28.AUG.2026 14:46:16

8M-Ant1-924

8.3 MAXIMUM PEAK CONDUCTED OUTPUT POWER

8.3.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02
According to RSS-247 and RSS-Gen

8.3.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 902 - 928MHz bands shall not exceed: 1 Watt (30dBm).

8.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.3.4 Test Procedure

As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. For smart system, Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Set the RBW $\geq$ DTS bandwidth

Set VBW $\geq 3 \times$ RBW

Set the span $\geq 3 \times$ RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

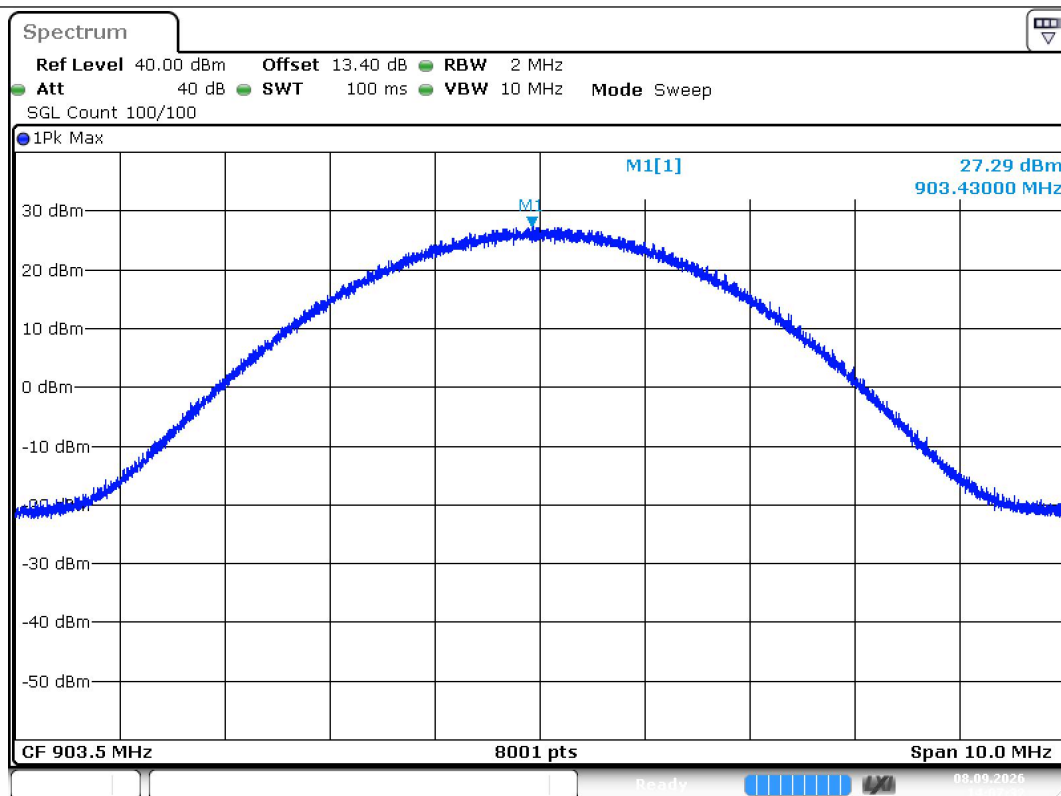
8.3.5 Test Results

Temperature:	28.3°C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

Note: N/A

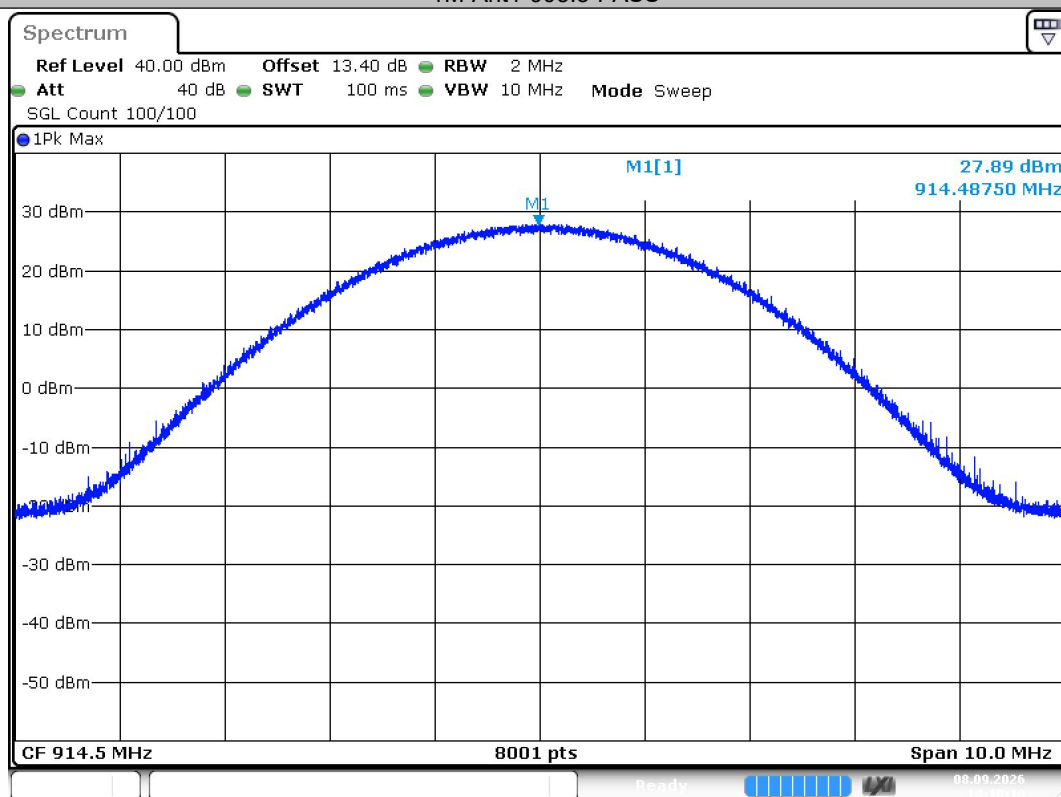
All the antenna(Antenna 1,2,3) and modes(OFDM_1M/2M/4M/8M) mode have been tested, and the worst(Antenna 1,OFDM_1M/2M/4M/8M) result recorded was report as below:

TestMode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
1M	Ant1	903.5	27.29	≤30	30.13	≤36	PASS
1M	Ant1	914.5	27.89	≤30	30.73	≤36	PASS
1M	Ant1	926.5	27.55	≤30	30.39	≤36	PASS
2M	Ant1	905	26.87	≤30	29.71	≤36	PASS
2M	Ant1	915	27.34	≤30	30.18	≤36	PASS
2M	Ant1	925	27.63	≤30	30.47	≤36	PASS
4M	Ant1	906	28.54	≤30	31.38	≤36	PASS
4M	Ant1	914	28.24	≤30	31.08	≤36	PASS
4M	Ant1	922	28.00	≤30	30.84	≤36	PASS
8M	Ant1	908	29.18	≤30	32.02	≤36	PASS
8M	Ant1	916	28.24	≤30	31.08	≤36	PASS
8M	Ant1	924	29.02	≤30	31.86	≤36	PASS



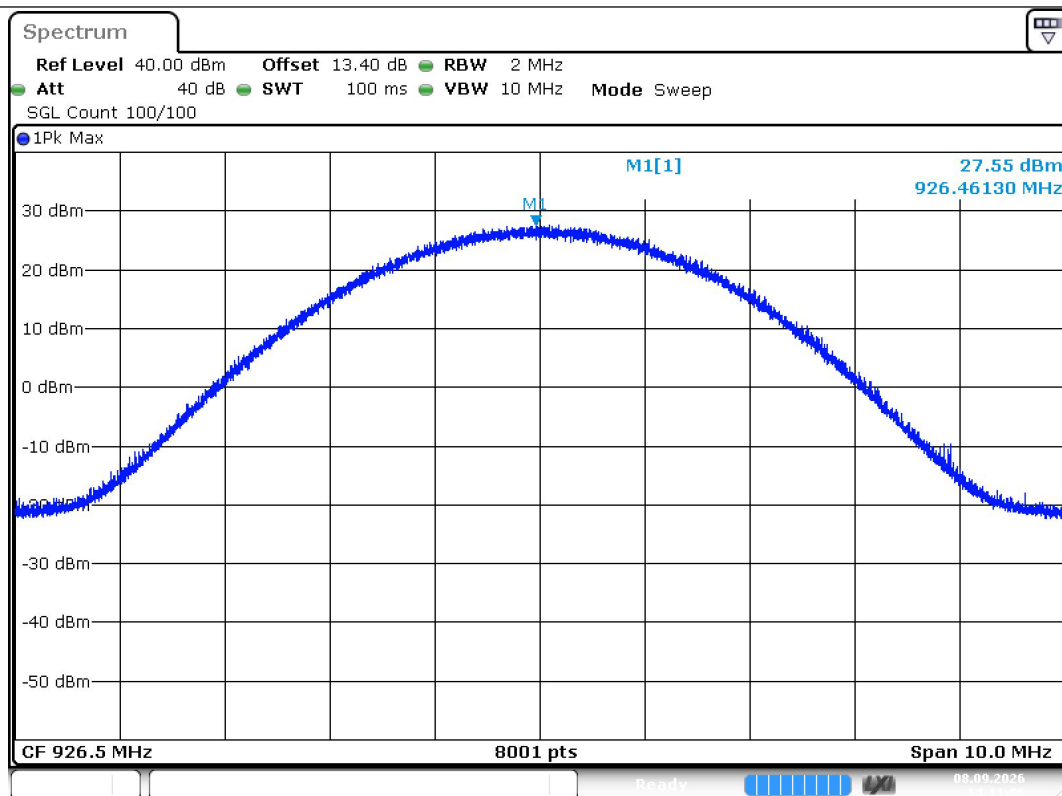
Date: 8.SEP.2026 14:07:32

1M-Ant1-903.5-PASS



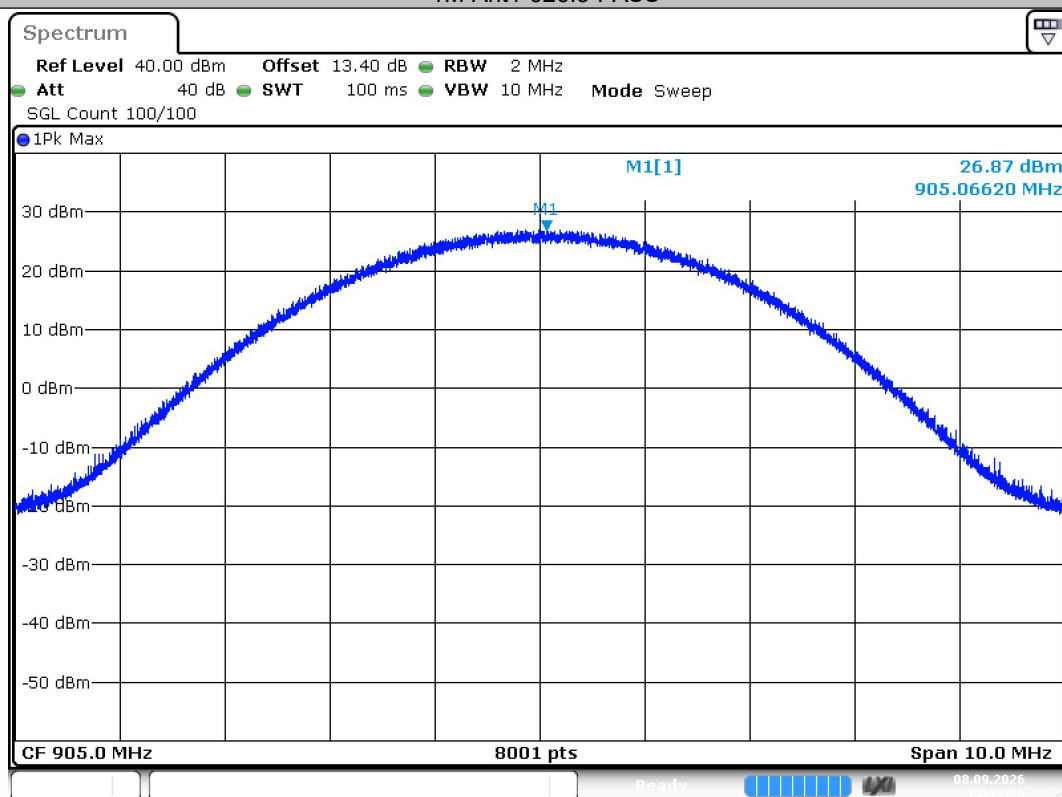
Date: 8.SEP.2026 14:10:11

1M-Ant1-914.5-PASS



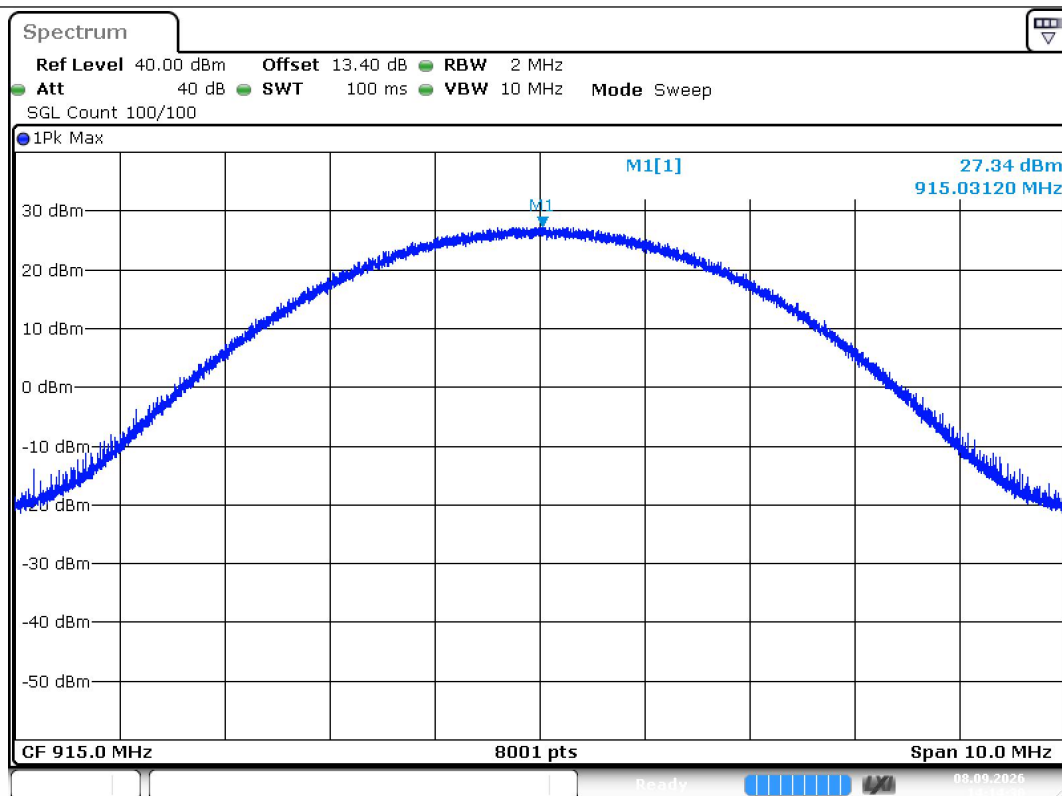
Date: 8.SEP.2026 14:11:06

1M-Ant1-926.5-PASS



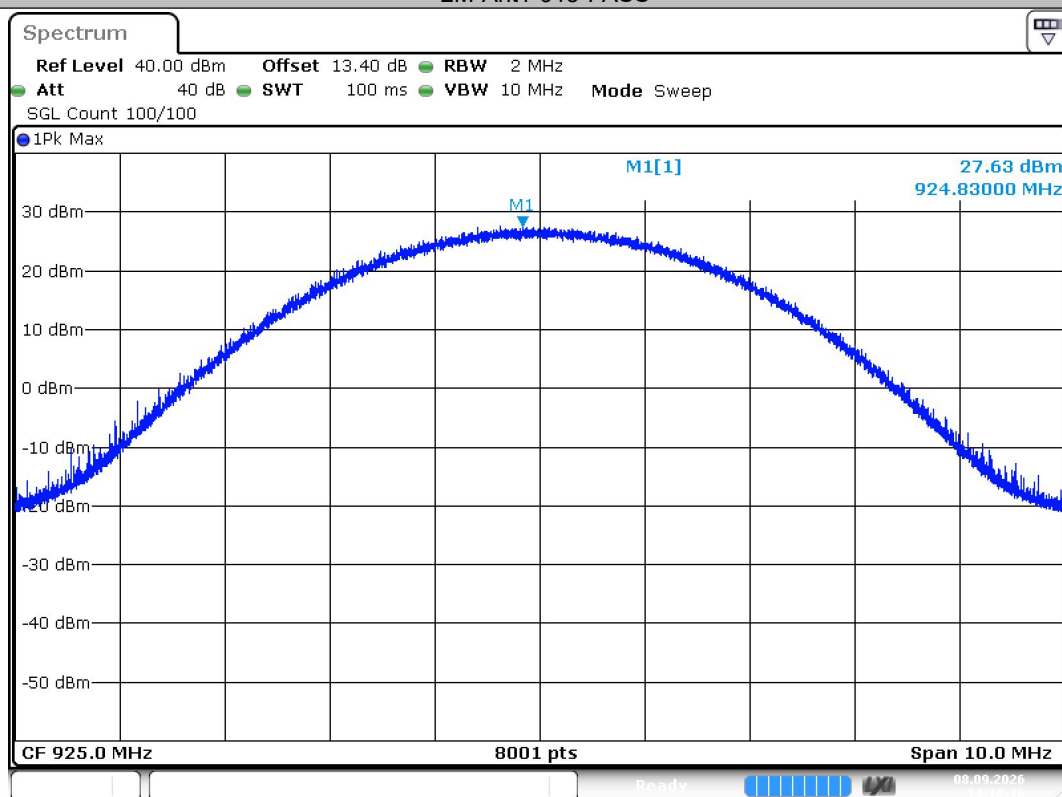
Date: 8.SEP.2026 14:13:28

2M-Ant1-905-PASS



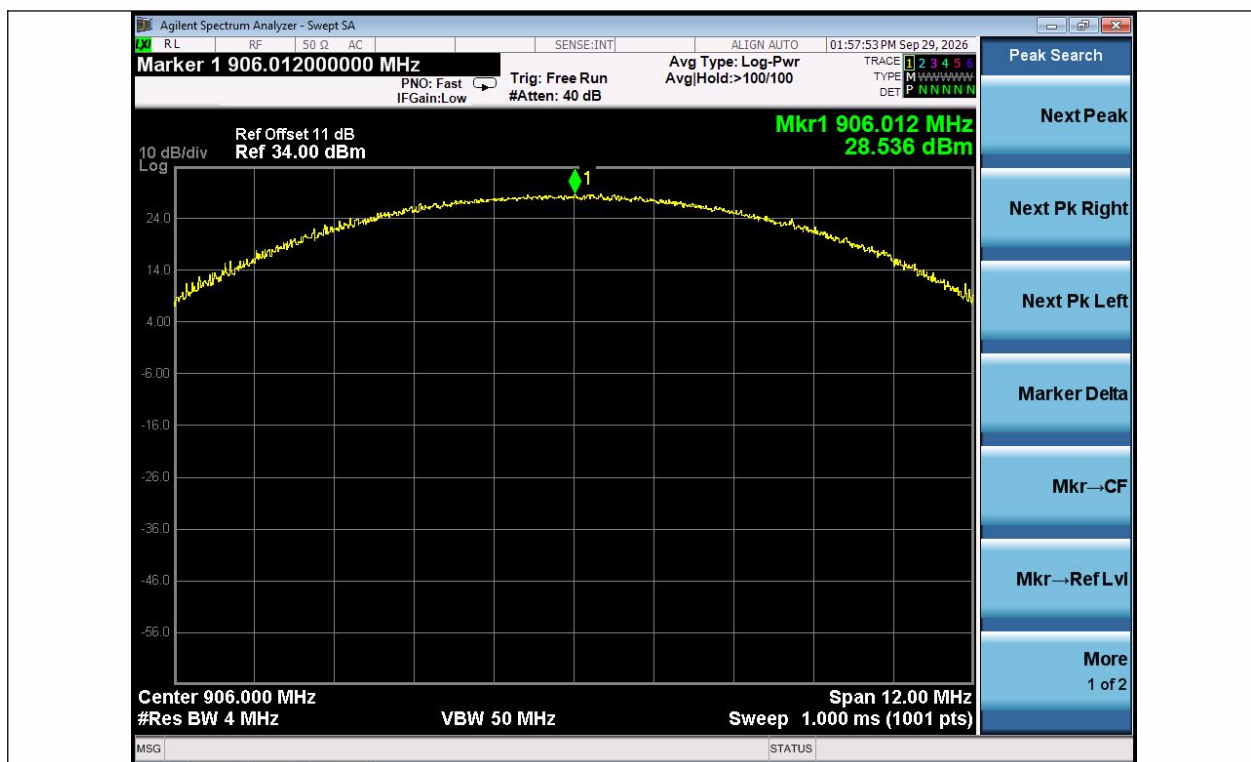
Date: 8.SEP.2026 14:14:30

2M-Ant1-915-PASS

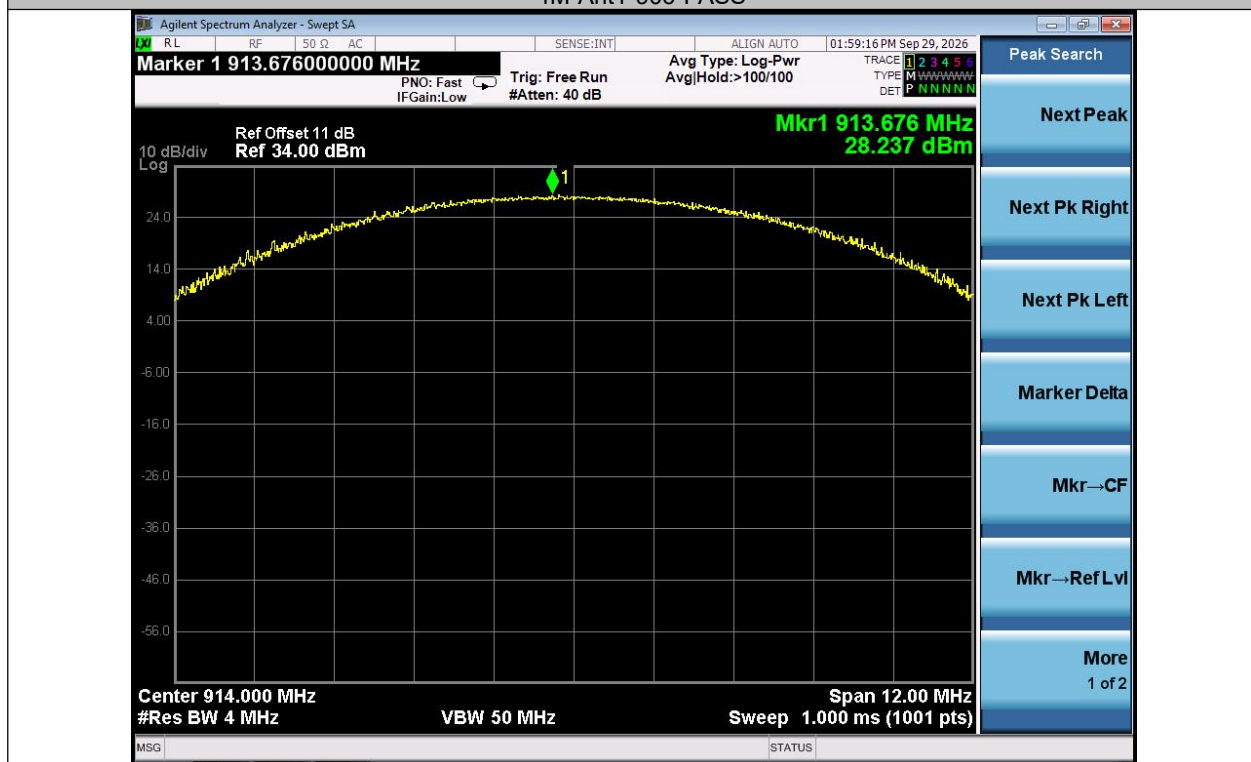


Date: 8.SEP.2026 14:18:16

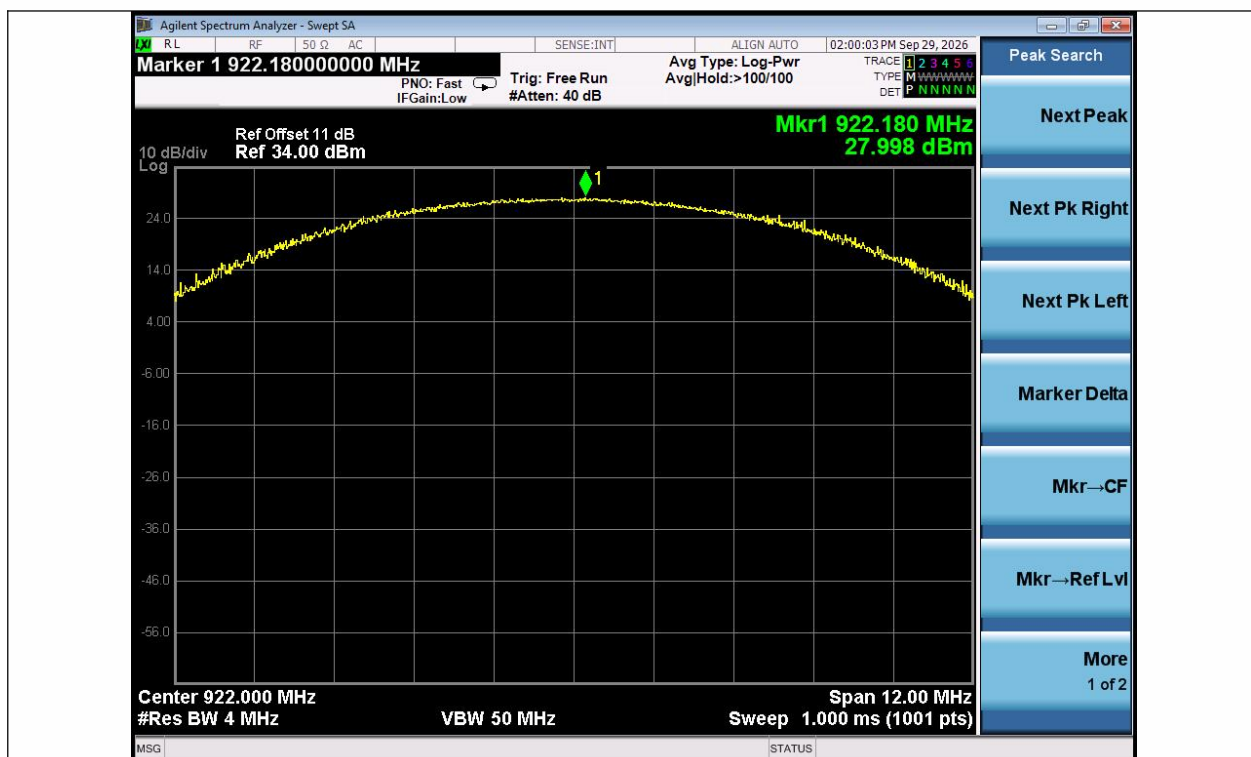
2M-Ant1-925-PASS



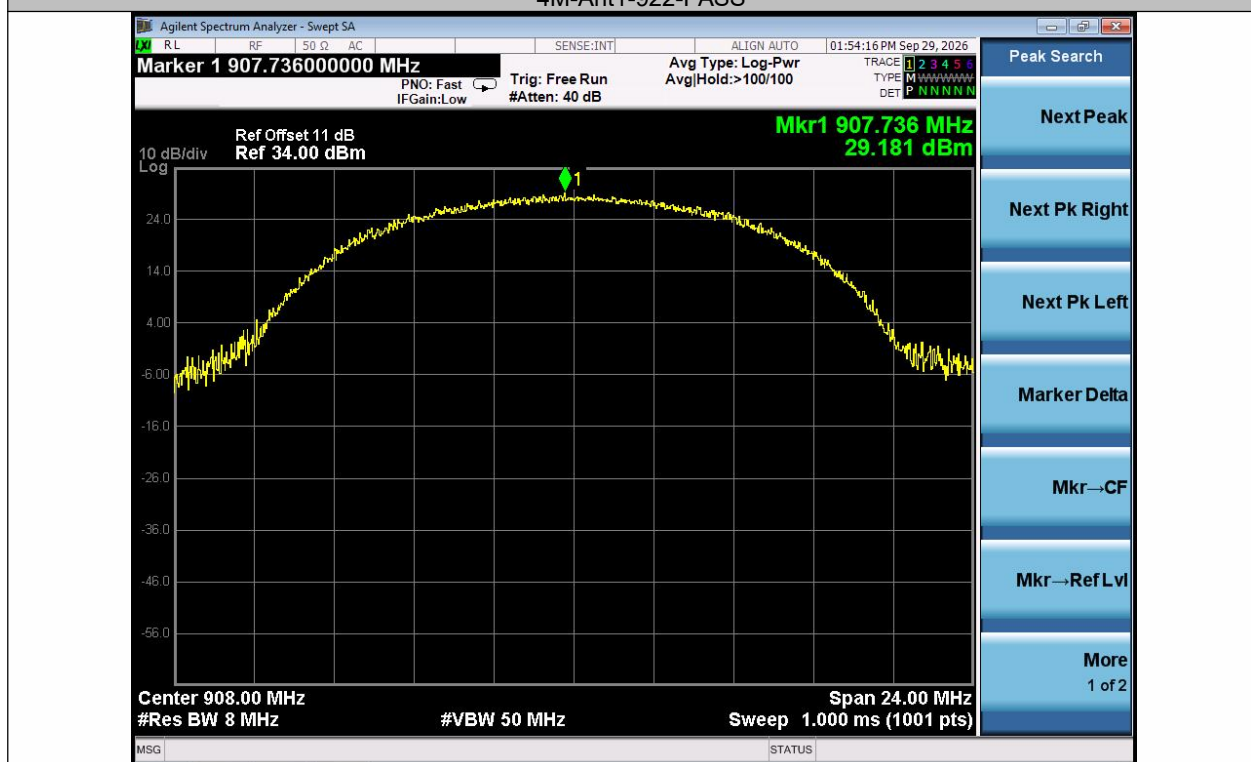
4M-Ant1-906-PASS



4M-Ant1-914-PASS



4M-Ant1-922-PASS



8M-Ant1-908-PASS



8M-Ant1-916-PASS



8M-Ant1-924-PASS

8.4 MAXIMUM POWER SPECTRAL DENSITY

8.4.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02
According to RSS-247 and RSS-Gen

8.4.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to:10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

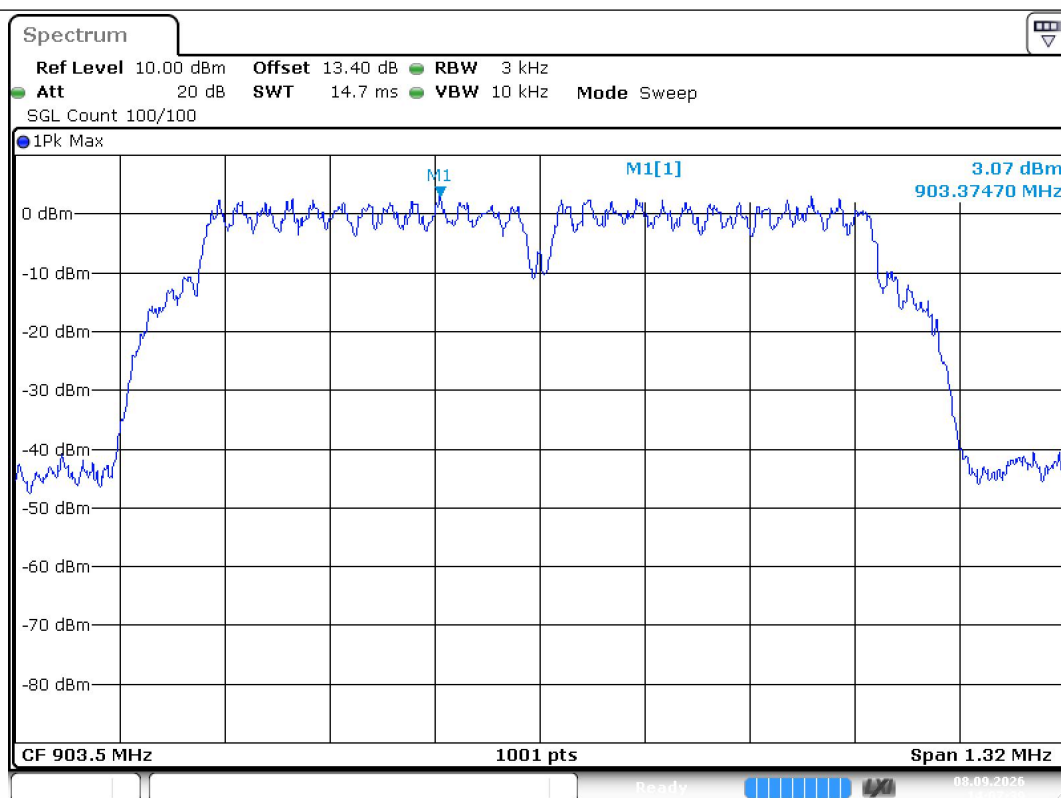
8.4.5 Test Results

Temperature:	28.3°C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

Note: N/A

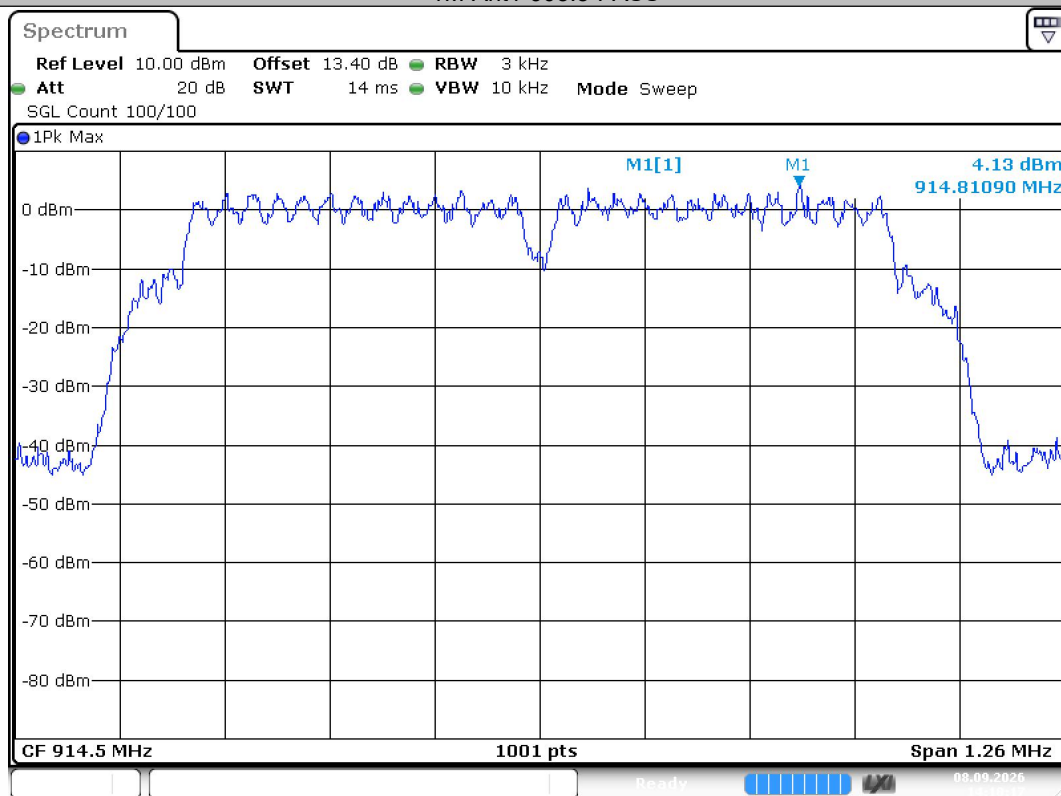
All the antenna(Antenna 1,2,3) and modes(OFDM_1M/2M/4M/8M) mode have been tested, and the worst(Antenna 1,OFDM_1M/2M/4M/8M) result recorded was report as below:

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
1M	Ant1	903.5	3.07	≤8.00	PASS
1M	Ant1	914.5	4.13	≤8.00	PASS
1M	Ant1	926.5	3.29	≤8.00	PASS
2M	Ant1	905	0.92	≤8.00	PASS
2M	Ant1	915	1.12	≤8.00	PASS
2M	Ant1	925	1.20	≤8.00	PASS
4M	Ant1	906	-1.75	≤8.00	PASS
8M	Ant1	908	-3.68	≤8.00	PASS
4M	Ant1	914	-1.22	≤8.00	PASS
8M	Ant1	916	-4.66	≤8.00	PASS
4M	Ant1	922	-2.01	≤8.00	PASS
8M	Ant1	924	-4.17	≤8.00	PASS



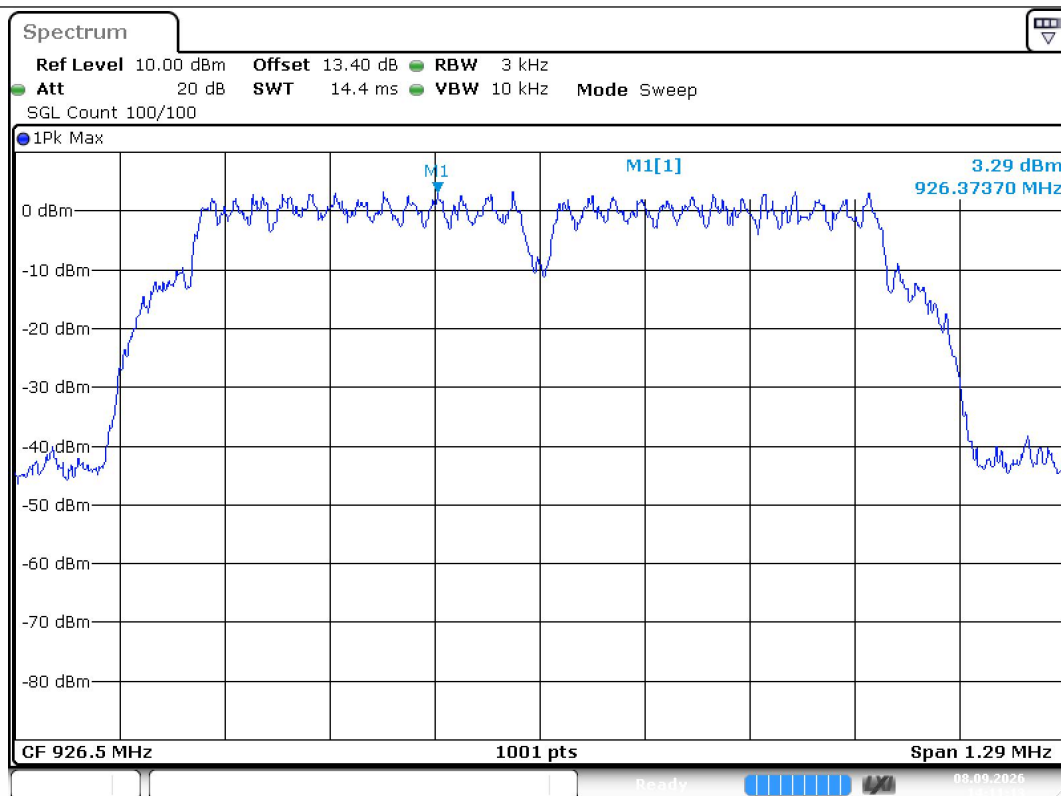
Date: 8.SEP.2026 14:07:39

1M-Ant1-903.5-PASS



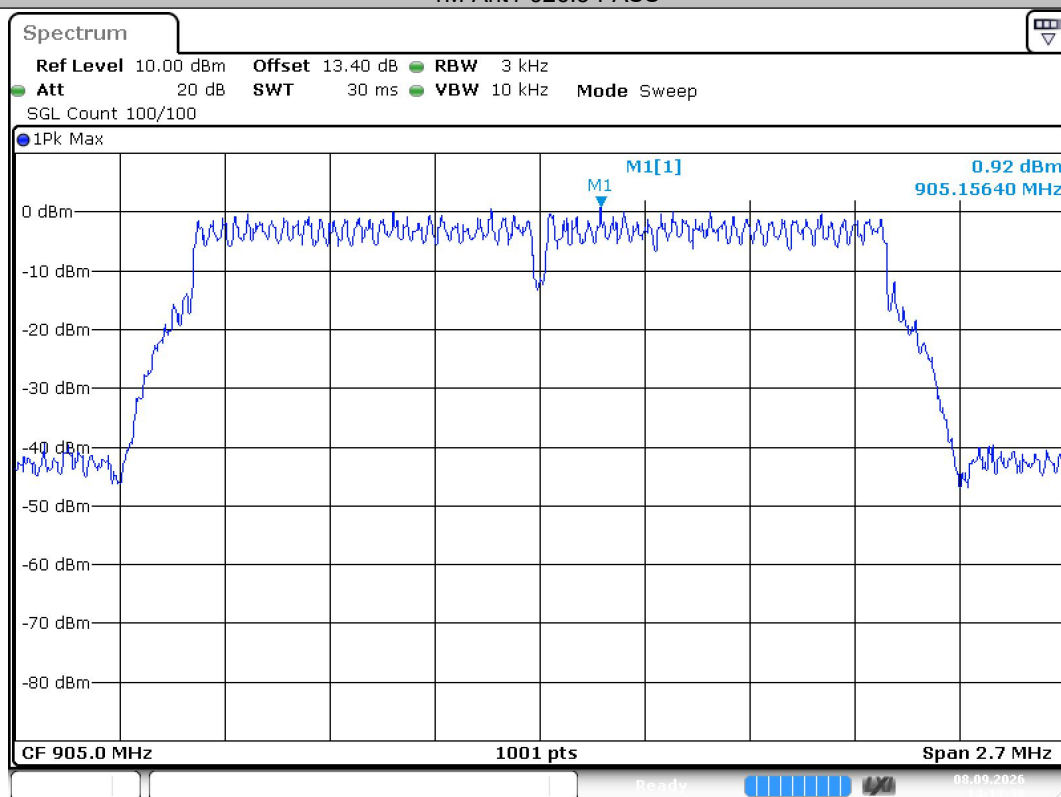
Date: 8.SEP.2026 14:10:18

1M-Ant1-914.5-PASS



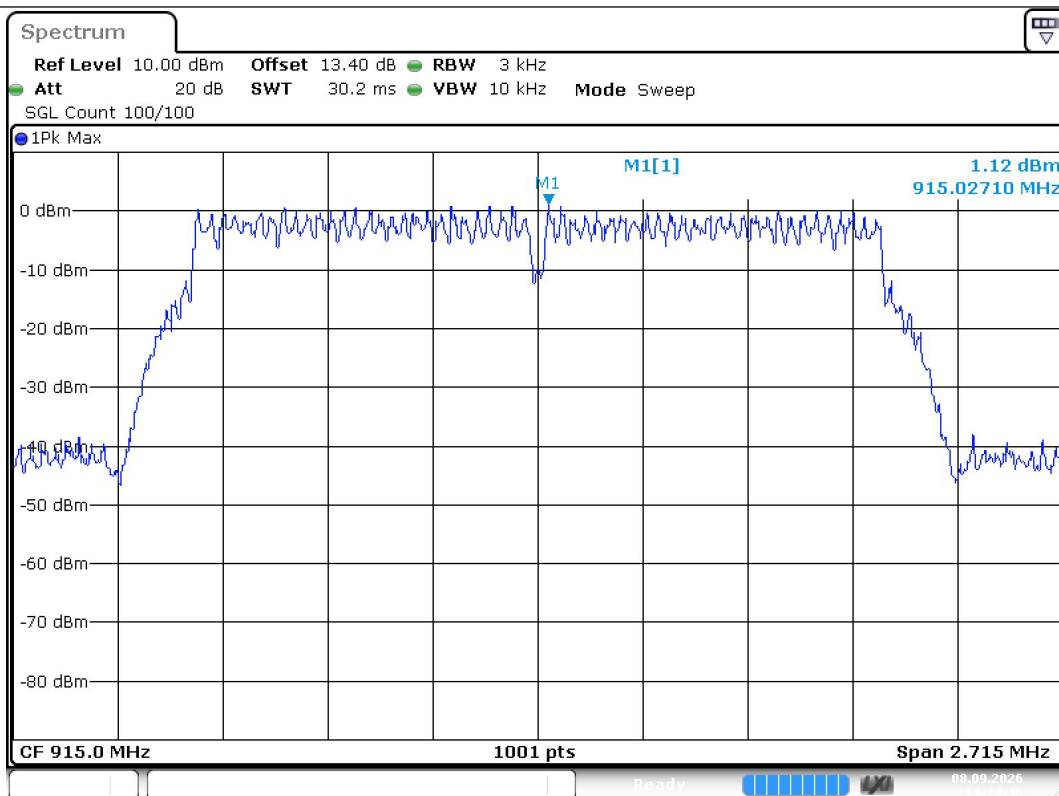
Date: 8.SEP.2026 14:11:14

1M-Ant1-926.5-PASS



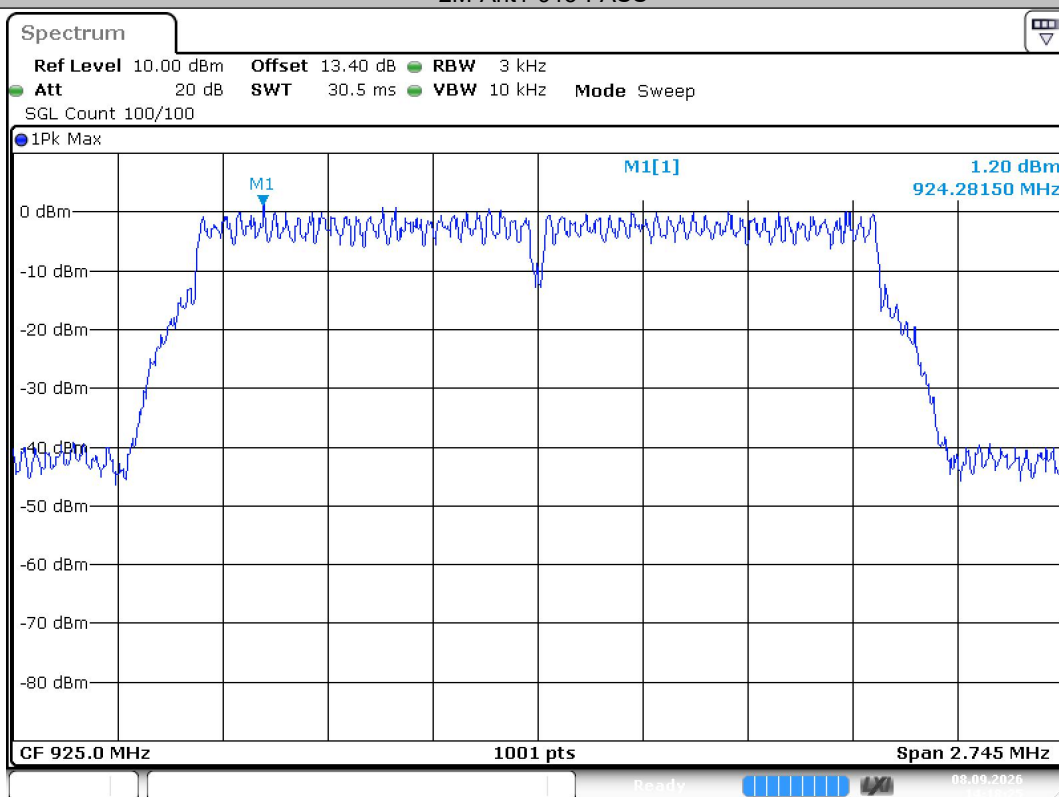
Date: 8.SEP.2026 14:13:38

2M-Ant1-905-PASS



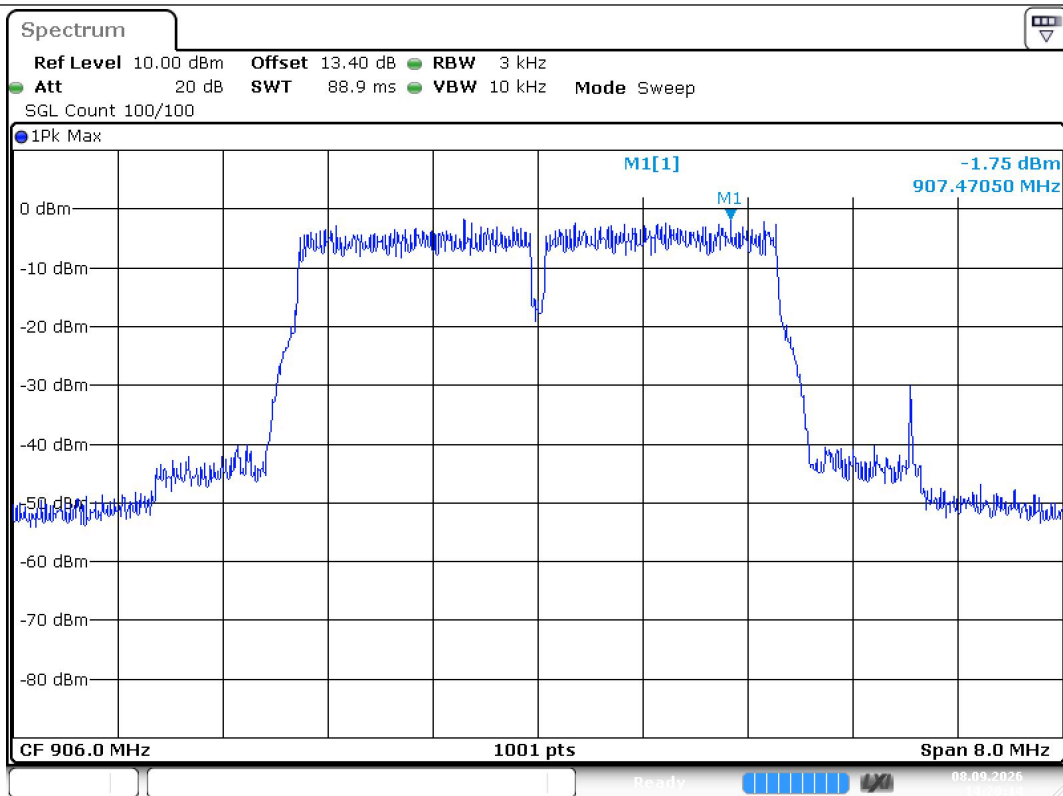
Date: 8.SEP.2026 14:14:40

2M-Ant1-915-PASS



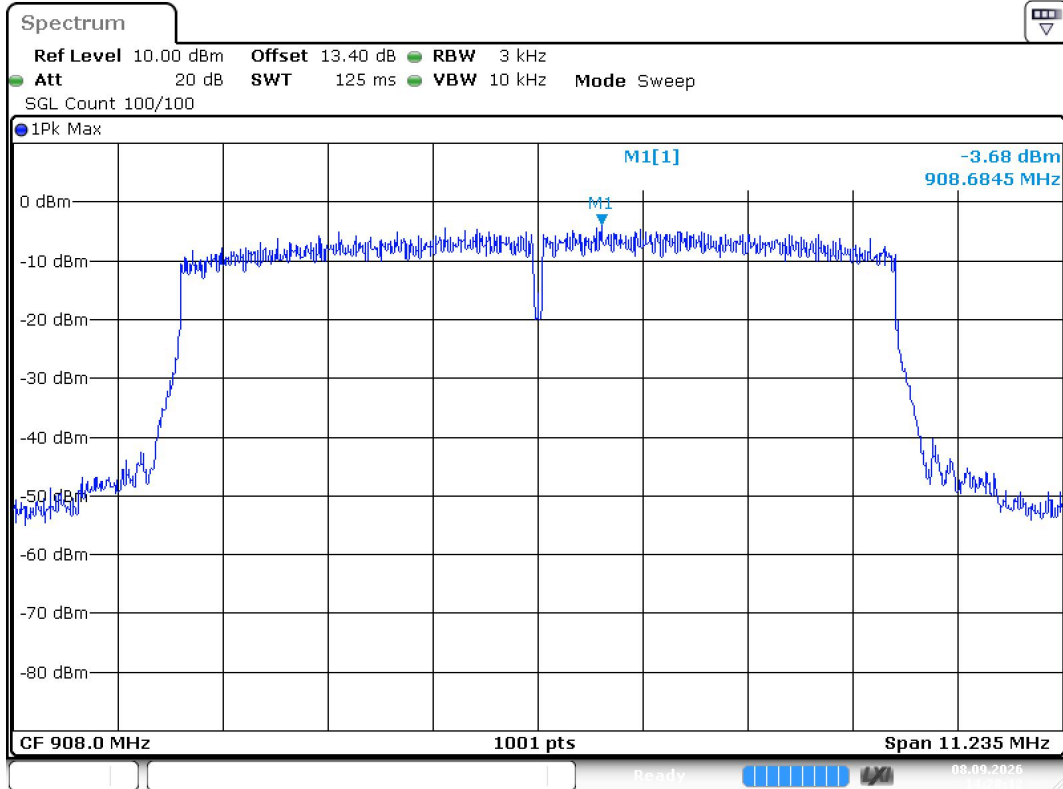
Date: 8.SEP.2026 14:18:25

2M-Ant1-925-PASS



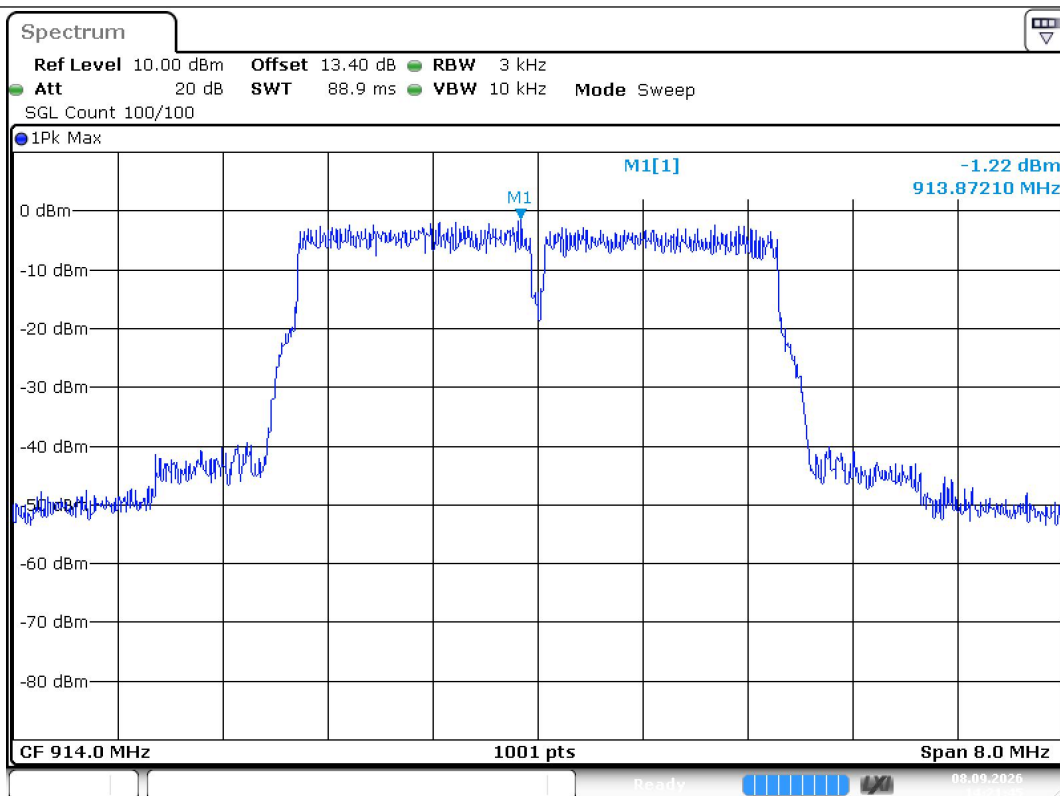
Date: 8.SEP.2026 14:20:15

4M-Ant1-906-PASS



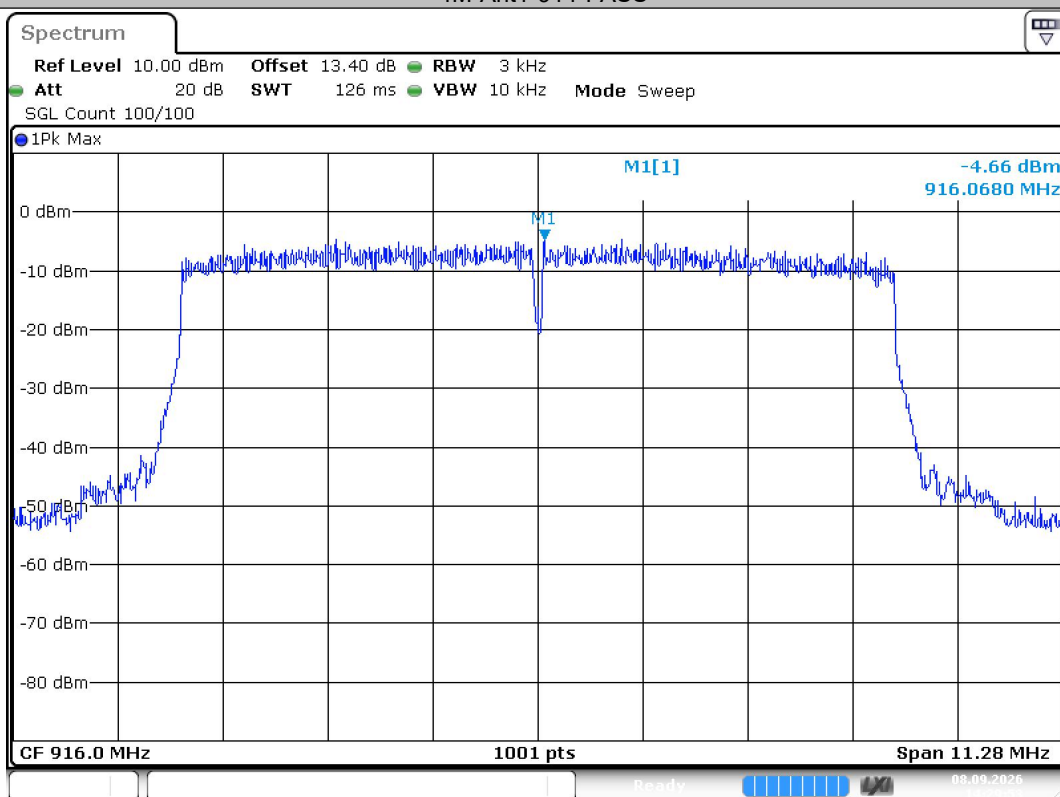
Date: 8.SEP.2026 14:28:12

8M-Ant1-908-PASS



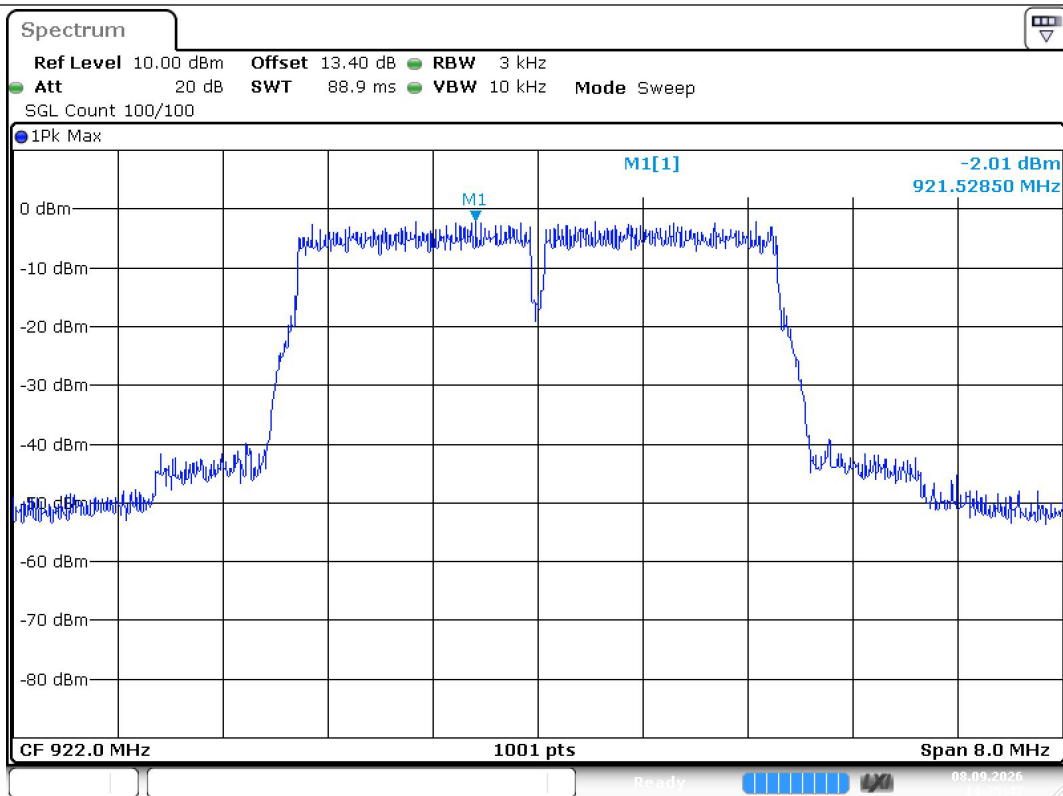
Date: 8.SEP.2026 14:21:44

4M-Ant1-914-PASS



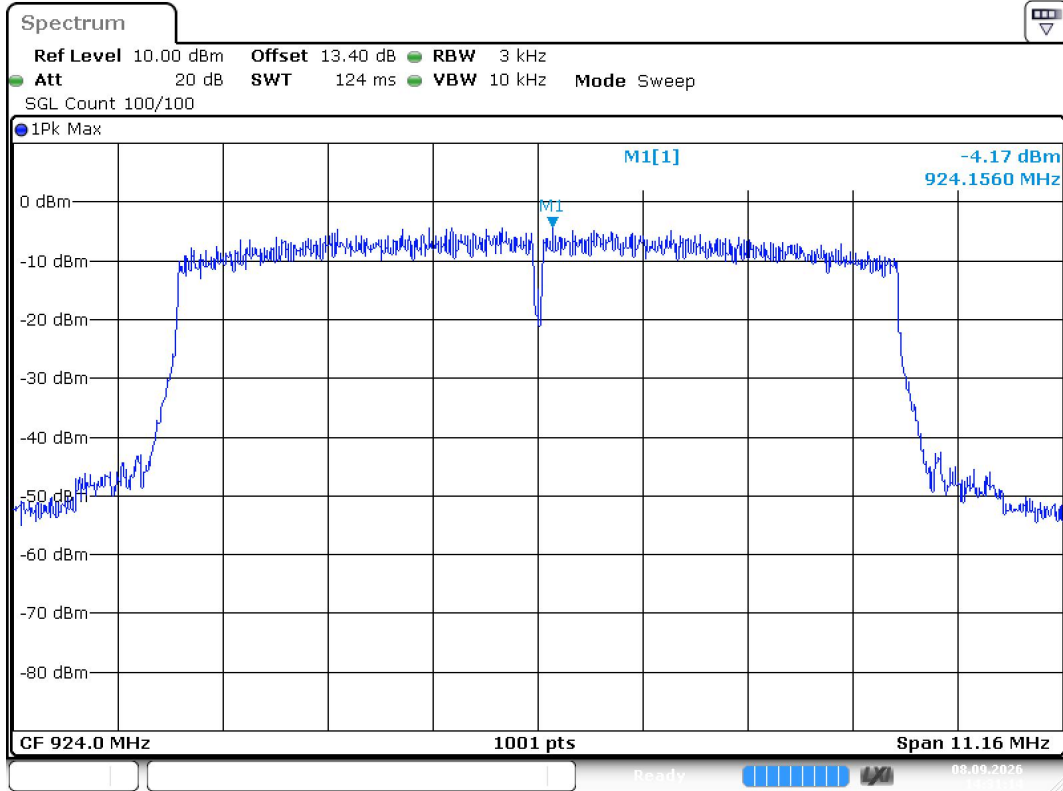
Date: 8.SEP.2026 14:29:54

8M-Ant1-916-PASS



Date: 8.SEP.2026 14:25:47

4M-Ant1-922-PASS



Date: 8.SEP.2026 14:31:13

8M-Ant1-924-PASS

8.5 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02
According to RSS-247

8.5.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.5.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.5.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to = 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW $\geq 1\%$ of the span=100kHz Set VBW $\geq 3 \times$ RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements . Report the three highest emissions relative to the limit.

8.5.5 Test Results

Temperature:	28.3°C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

Note: N/A

All the antenna(Antenna 1,2,3) and modes(OFDM_1M/2M/4M/8M) mode have been tested, and the worst(Antenna 1,OFDM_1M/2M/4M/8M) result recorded was report as below:

Reference level measurement

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
1M	Ant1	903.5	903.29	15.62
1M	Ant1	914.5	914.34	16.64
1M	Ant1	926.5	926.36	16.56
2M	Ant1	905	904.60	12.23
2M	Ant1	915	914.52	13.85
2M	Ant1	925	925.29	13.60
4M	Ant1	906	906.25	10.87
8M	Ant1	908	908.21	8.29
4M	Ant1	914	913.66	10.19
8M	Ant1	916	914.07	7.91
4M	Ant1	922	921.37	10.60
8M	Ant1	924	924.58	8.16

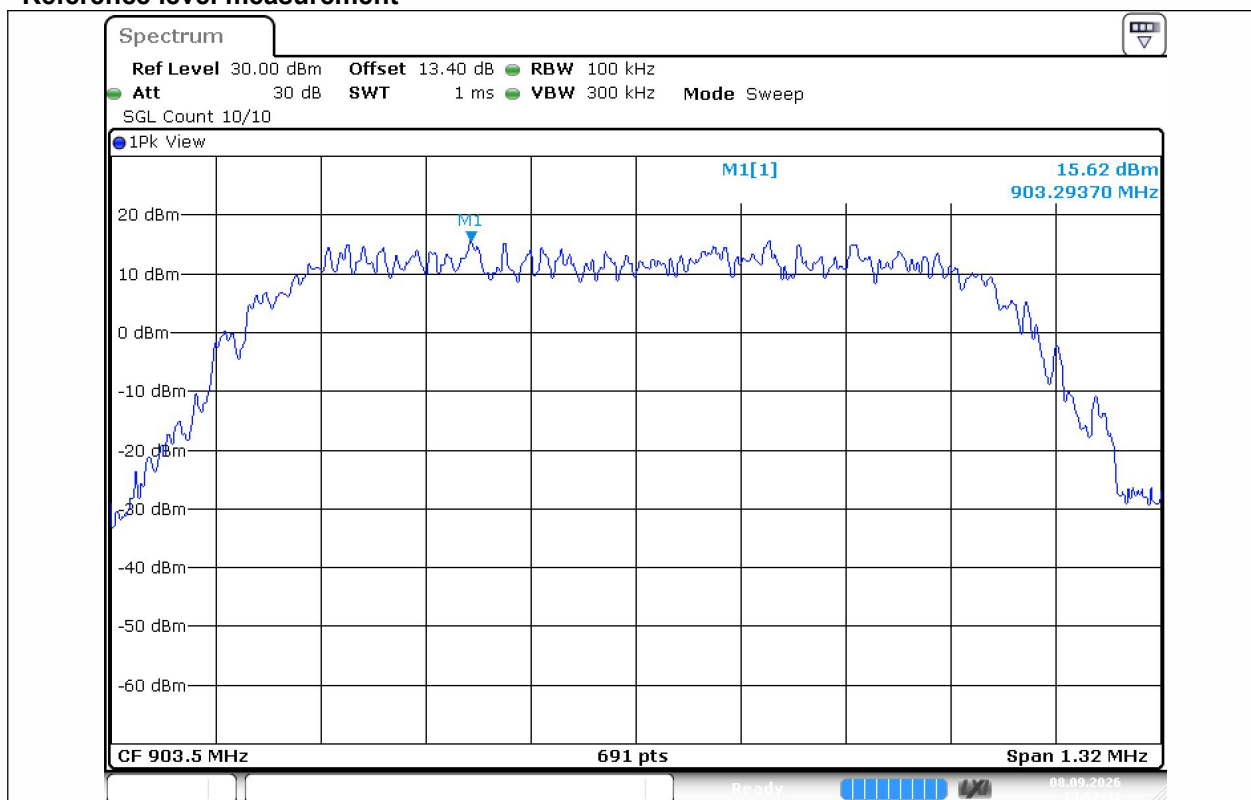
Band edge measurements

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
1M	Ant1	Low	903.5	15.62	-30.93	≤-4.38	PASS
1M	Ant1	High	926.5	16.56	-27.89	≤-3.44	PASS
2M	Ant1	Low	905	12.23	-37.13	≤-7.77	PASS
2M	Ant1	High	925	13.60	-34.31	≤-6.4	PASS
4M	Ant1	Low	906	10.87	-35	≤-9.13	PASS
8M	Ant1	Low	908	8.29	-32.41	≤-11.71	PASS
4M	Ant1	High	922	10.60	-38.22	≤-9.4	PASS
8M	Ant1	High	924	8.16	-18.04	≤-11.84	PASS

Conducted Spurious Emission

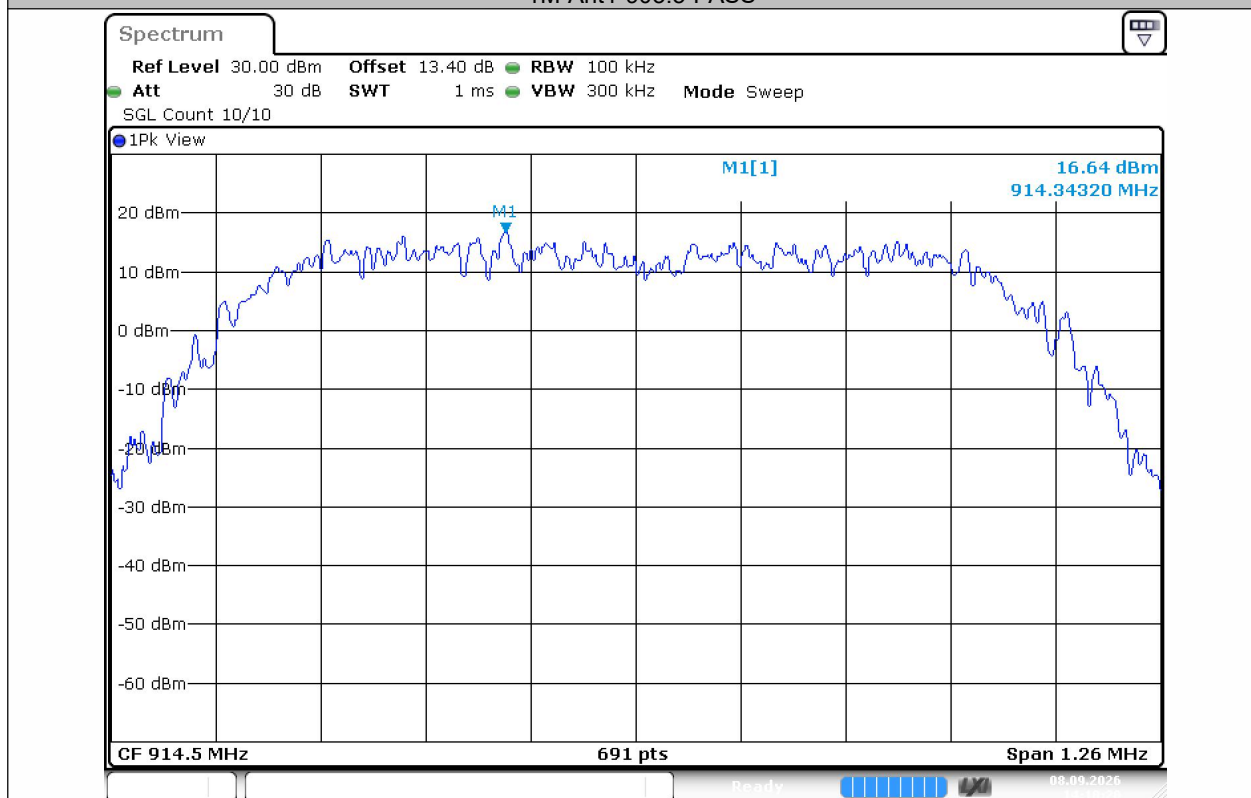
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
1M	Ant1	903.5	30~1000	15.62	-56.65	≤-4.38	PASS
1M	Ant1	903.5	1000~26500	15.62	-39.26	≤-4.38	PASS
1M	Ant1	914.5	30~1000	16.64	-55.97	≤-3.36	PASS
1M	Ant1	914.5	1000~26500	16.64	-38.54	≤-3.36	PASS
1M	Ant1	926.5	30~1000	16.56	-56.01	≤-3.44	PASS
1M	Ant1	926.5	1000~26500	16.56	-40.94	≤-3.44	PASS
2M	Ant1	905	30~1000	12.23	-56.81	≤-7.77	PASS
2M	Ant1	905	1000~26500	12.23	-40.4	≤-7.77	PASS
2M	Ant1	915	30~1000	13.85	-55.71	≤-6.15	PASS
2M	Ant1	915	1000~26500	13.85	-30.45	≤-6.15	PASS
2M	Ant1	925	30~1000	13.60	-56.54	≤-6.4	PASS
2M	Ant1	925	1000~26500	13.60	-30.31	≤-6.4	PASS
4M	Ant1	906	30~1000	10.87	-45.63	≤-9.13	PASS
4M	Ant1	906	1000~26500	10.87	-30.85	≤-9.13	PASS
8M	Ant1	908	30~1000	8.29	-52.2	≤-11.71	PASS
8M	Ant1	908	1000~26500	8.29	-31.97	≤-11.71	PASS
4M	Ant1	914	30~1000	10.19	-50.62	≤-9.81	PASS
4M	Ant1	914	1000~26500	10.19	-31.71	≤-9.81	PASS
8M	Ant1	916	30~1000	7.91	-45.51	≤-12.09	PASS
8M	Ant1	916	1000~26500	7.91	-31.75	≤-12.09	PASS
4M	Ant1	922	30~1000	10.60	-47.66	≤-9.4	PASS
4M	Ant1	922	1000~26500	10.60	-30.41	≤-9.4	PASS
8M	Ant1	924	30~1000	8.16	-45.4	≤-11.84	PASS
8M	Ant1	924	1000~26500	8.16	-31.16	≤-11.84	PASS

Reference level measurement



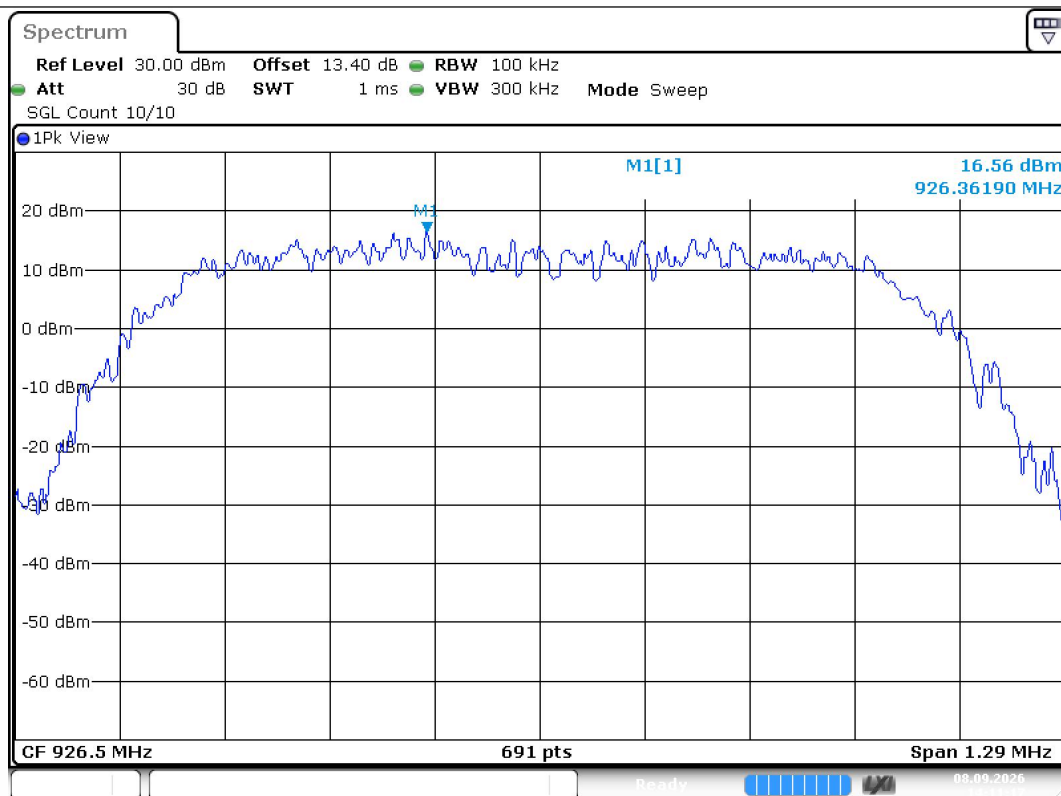
Date: 8.SEP.2026 14:07:41

1M-Ant1-903.5-PASS



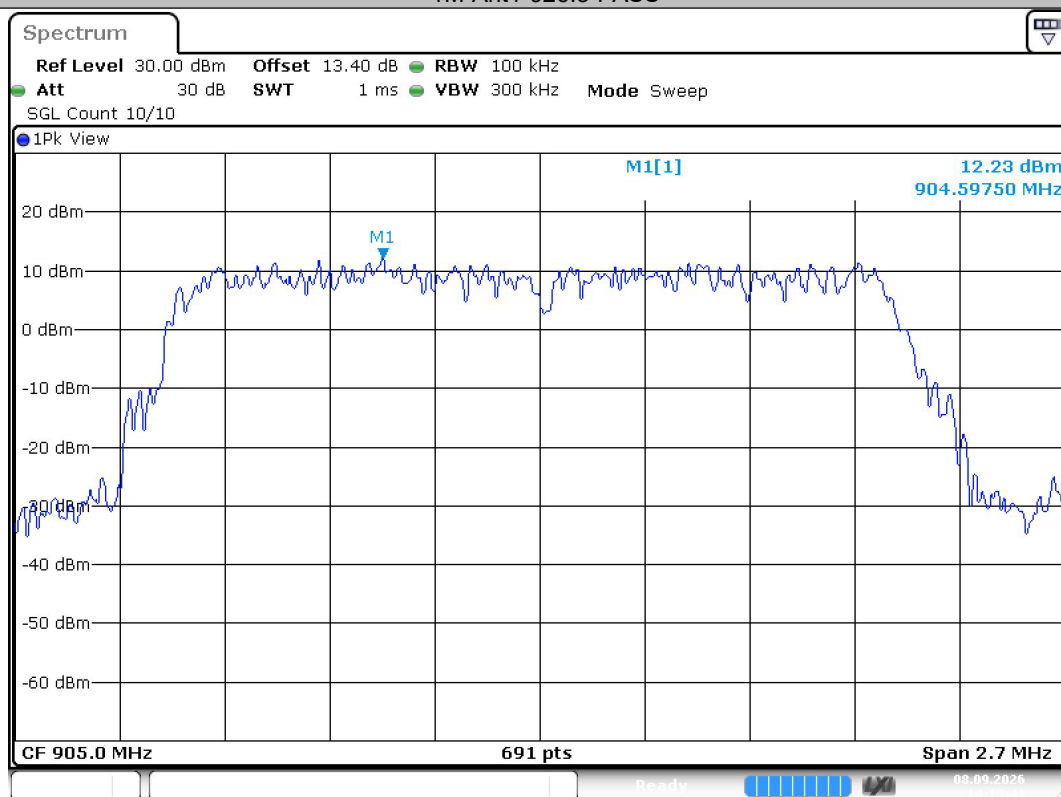
Date: 8.SEP.2026 14:10:20

1M-Ant1-914.5-PASS



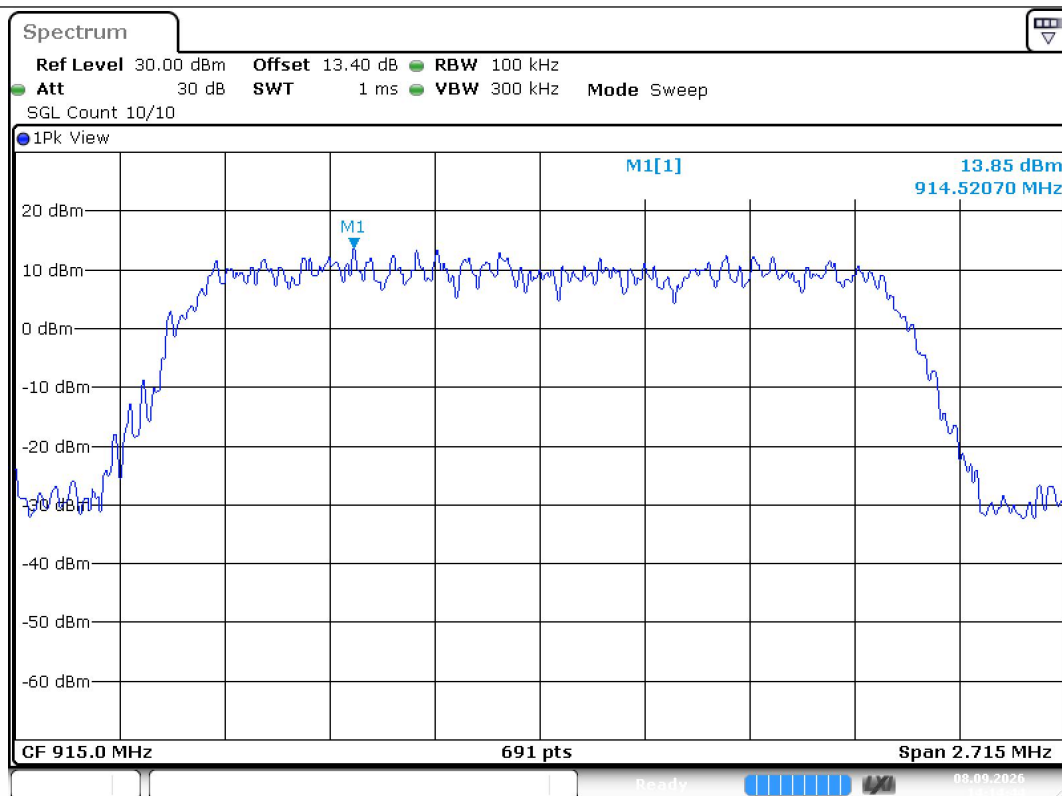
Date: 8.SEP.2026 14:11:18

1M-Ant1-926.5-PASS



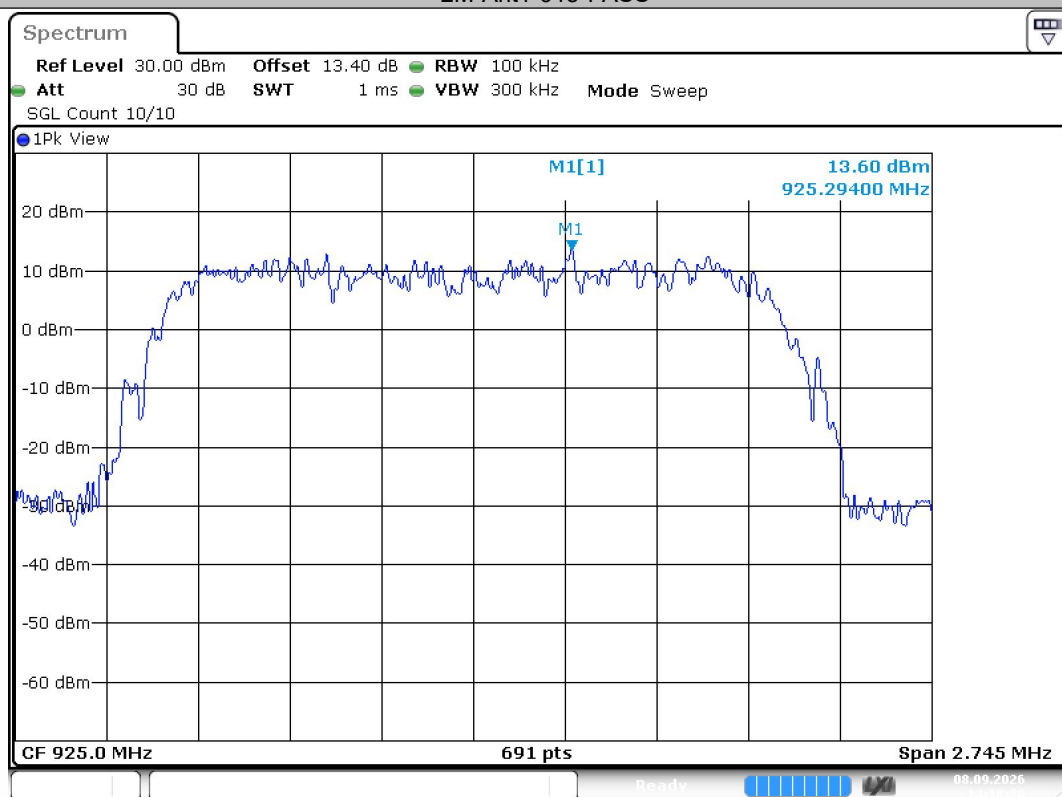
Date: 8.SEP.2026 14:13:41

2M-Ant1-905-PASS



Date: 8.SEP.2026 14:14:44

2M-Ant1-915-PASS



Date: 8.SEP.2026 14:18:28

2M-Ant1-925-PASS