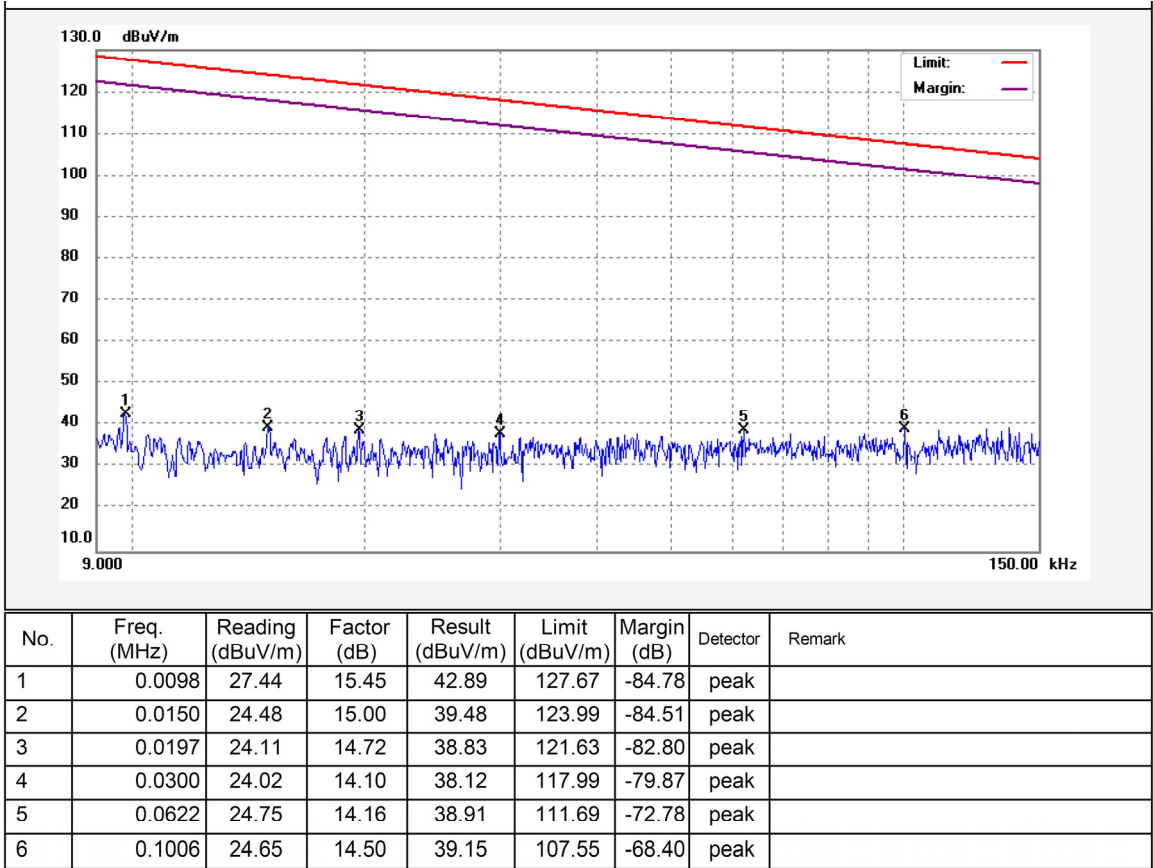
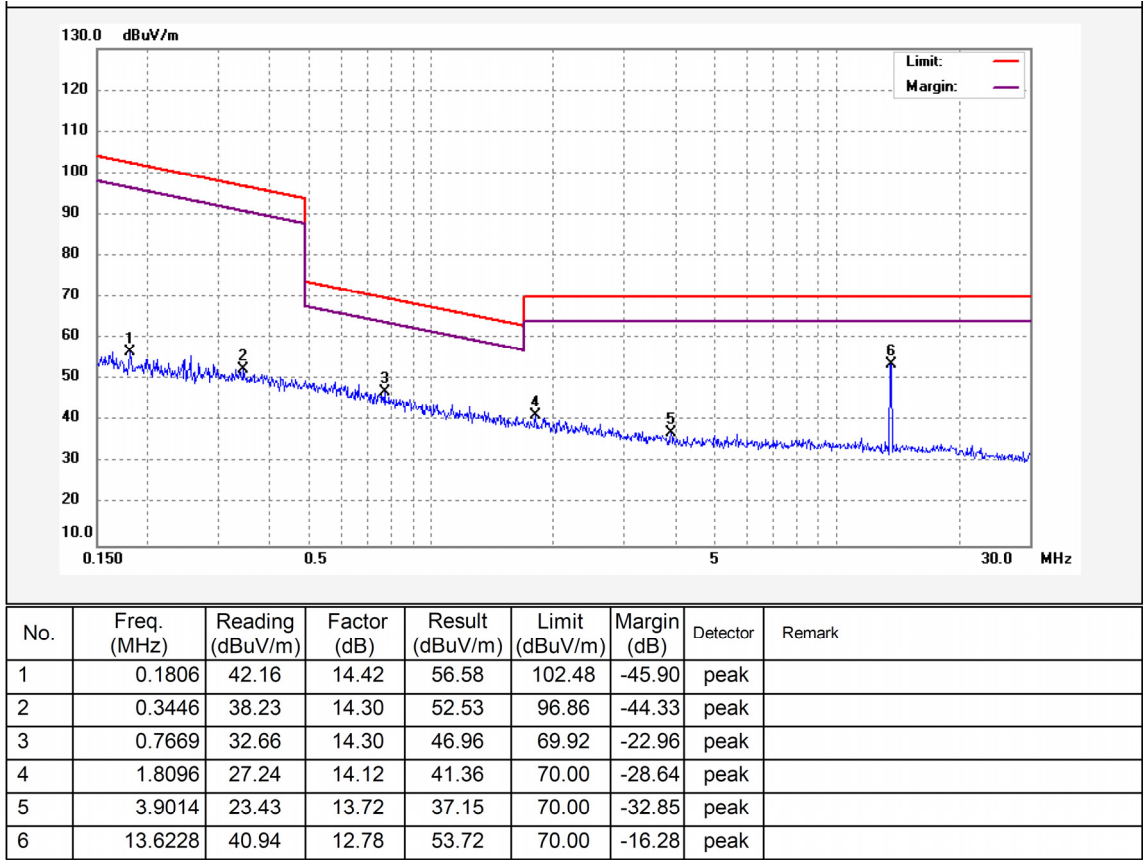


Antenna orientation: Ground-parallel

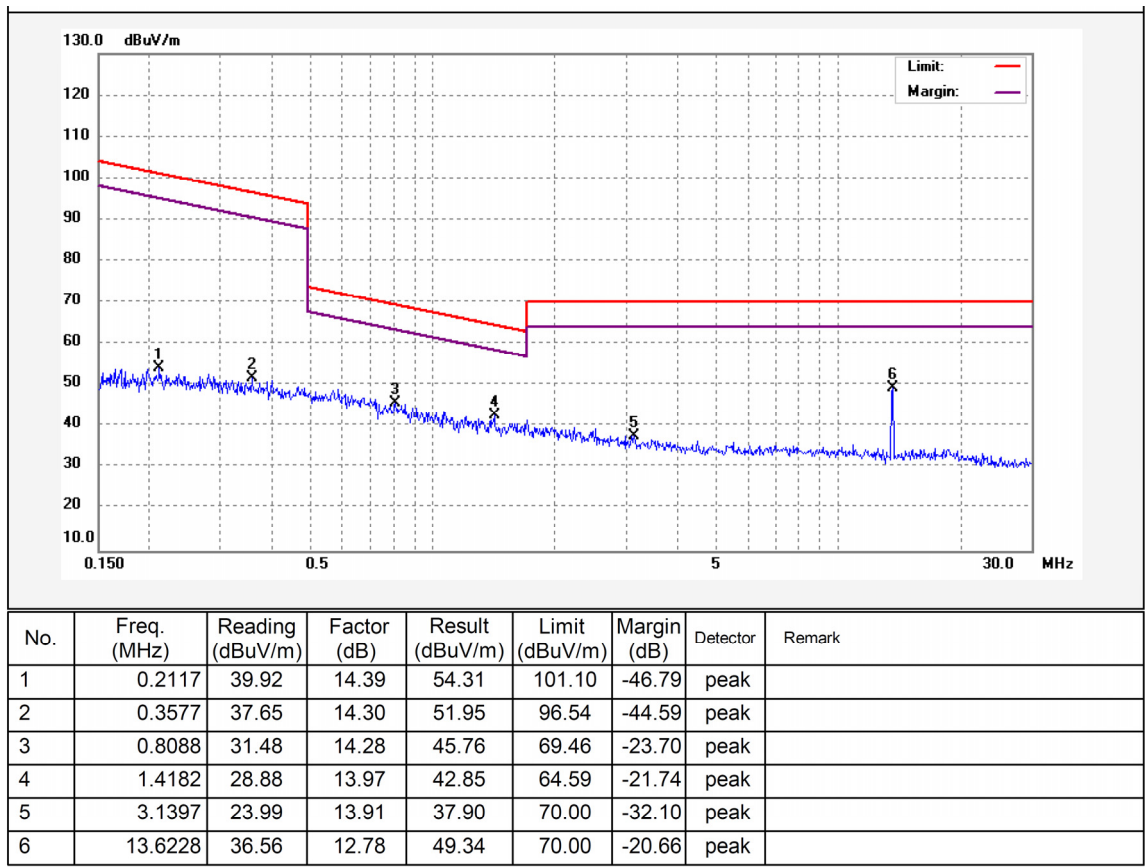


Test Frequency: 150kHz ~30MHz

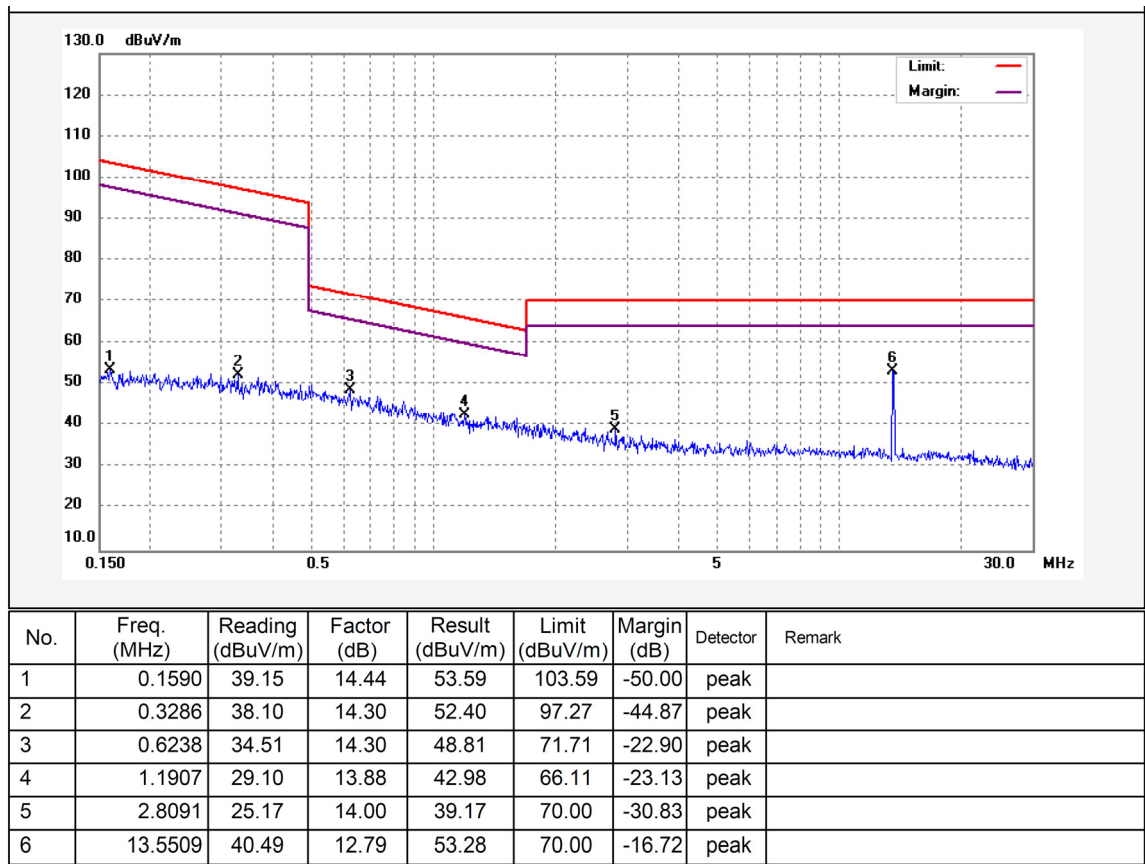
Antenna orientation: Parallel



Antenna orientation: Perpendicular

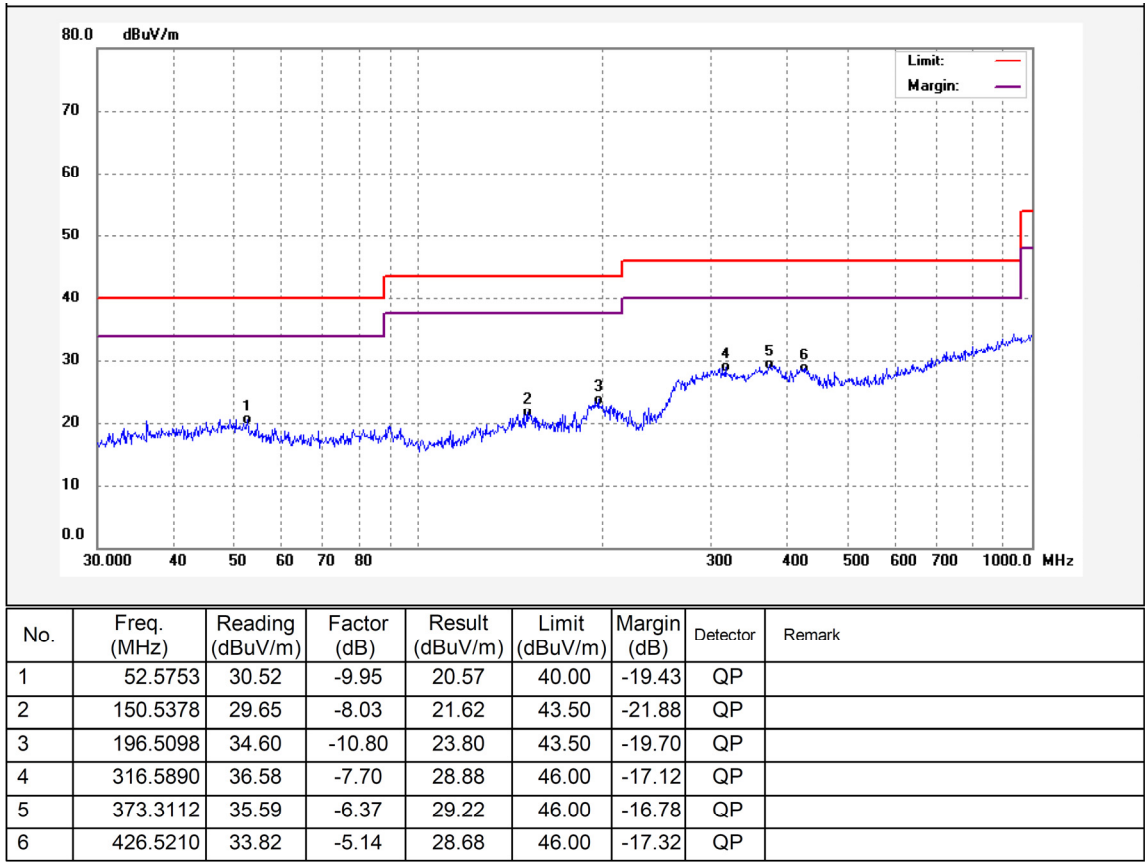


Antenna orientation: Ground-parallel

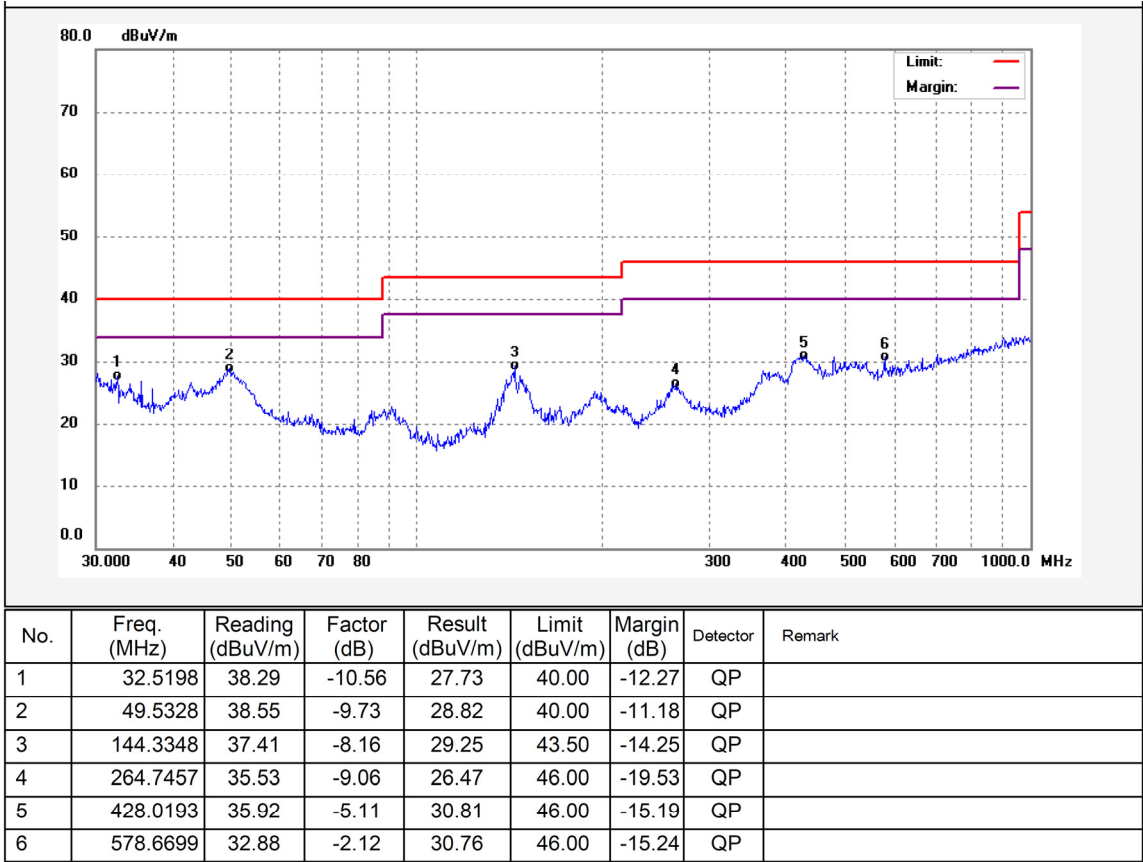


Test Frequency: 30MHz ~ 1GHz

Antenna polarity: H



Antenna polarity: V



9 Frequency tolerance

Test Requirement: 47 CFR Part 15 Subpart C Section 15.225(e)

Test Method: ANSI C63.10-2020

9.1 Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+ 50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Limit: $\pm 0.01\%$ of 13.56MHz= ± 1356 Hz

9.2 Test Procedure

1. Set RBW = 10 kHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. The transmitter output (antenna port) was connected to the spectrum analyser .

9.3 Test Result

Test Conditions			Frequency Deviation		Limit
Frequency MHz	Power(VDC)	Temperature (°C)	Measured Freq. (MHz)	Deviation (%)	
13.56	Normal	-20	13.5606	0.0044	$\pm 0.01\%$
	Normal	-10	13.5601	0.0008	
	Normal	0	13.5603	0.0023	
	Normal	10	13.5606	0.0045	
	Normal	20	13.5603	0.0020	
	Normal	30	13.5604	0.0033	
	Normal	40	13.5607	0.0048	
	Normal	50	13.5602	0.0018	
	Normal*85%	20	13.5605	0.0036	
	Normal *115%	20	13.5606	0.0045	

10 Bandwidth Measurement

Test Requirement: 47 CFR Part 15 Subpart C Section 15.215

10.1 Limit

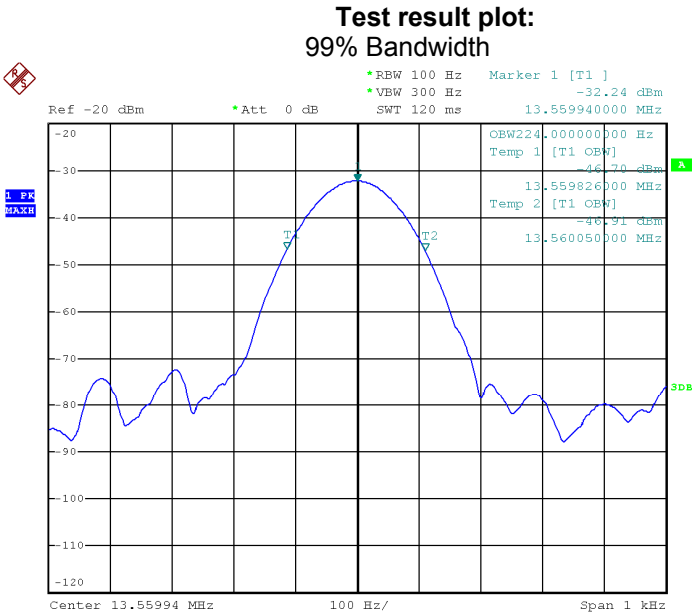
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

10.2 Test Procedure

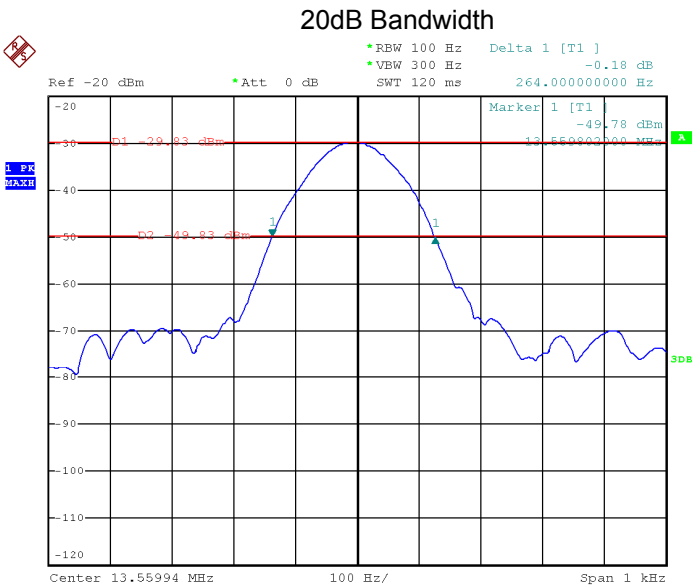
1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions;
2. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
3. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

10.3 Test Result Plot:

Test Channel(MHz)	99% Bandwidth(kHz)	20dB Bandwidth Emission(kHz)
13.56	0.224	0.264



Date: 24.JAN.2026 18:28:57



Date: 24.JAN.2026 18:29:59

11 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a FPC antenna to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Note: Please refer to EUT photos for more details.

12 Photographs of test setup and EUT

Note: Please refer to appendix: Appendix-Black Z1-Photos.

===== End of Report =====