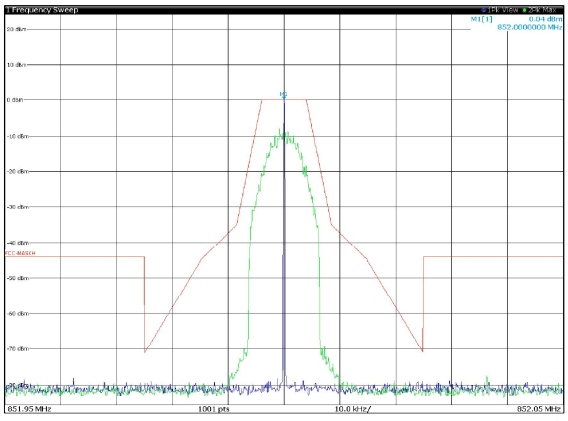
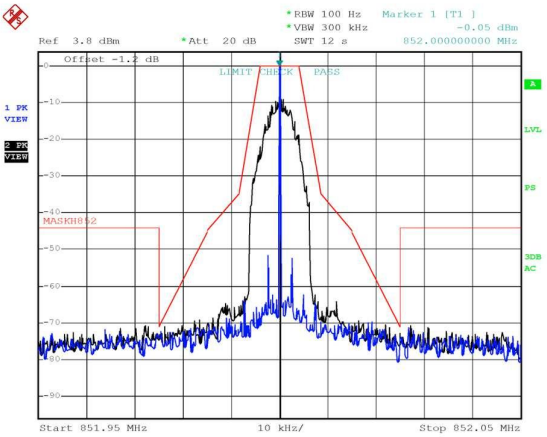
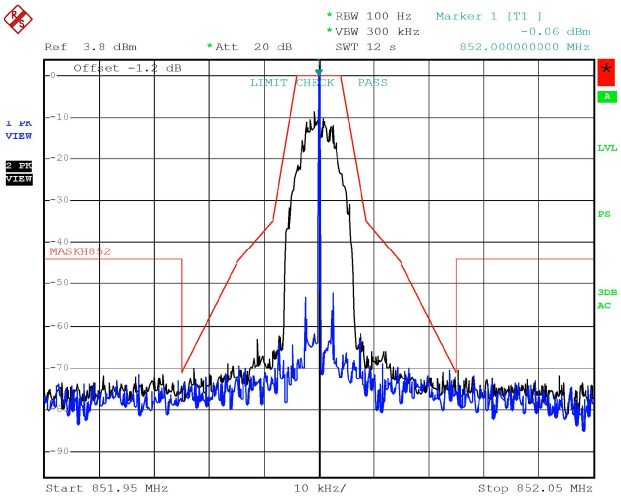
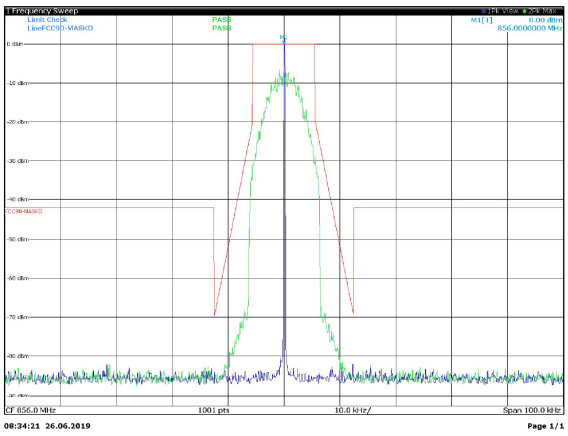
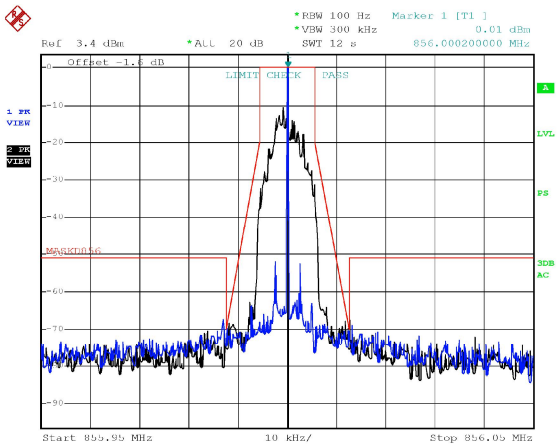
Test data	
	
Input	Output
Emission mask H with input at AGC threshold with 8K70D1W signal at 852 MHz	

Test data

Output
Emission mask H with input at AGC threshold + 3 dB with 8K70D1W signal at 852 MHz

Test data



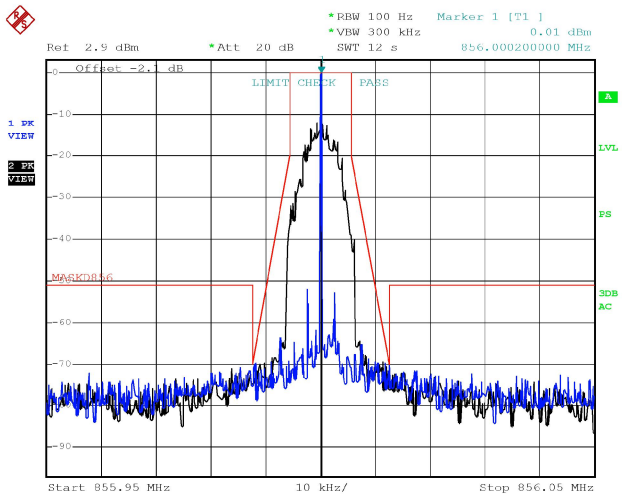
Input



Output

Emission mask D with input at AGC threshold with 8K70D1W signal at 856 MHz

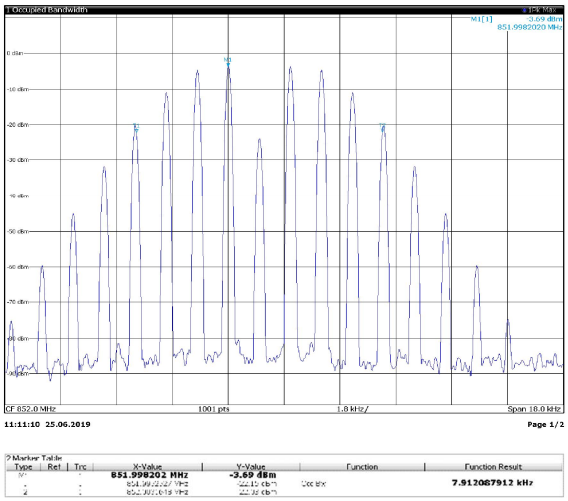
Test data



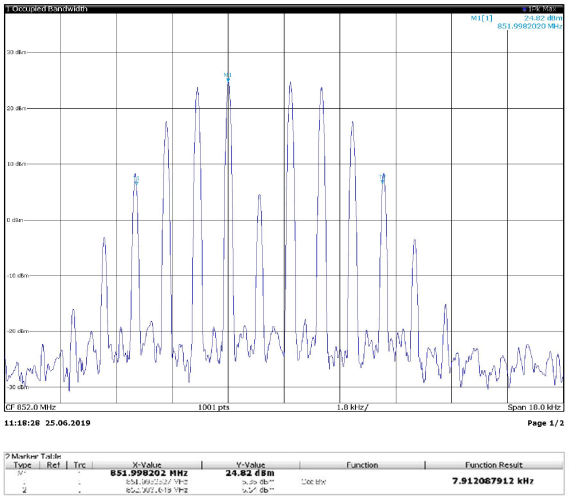
Output

Emission mask D with input at AGC threshold +3dB with 8K70D1W signal at 856 MHz

Test data



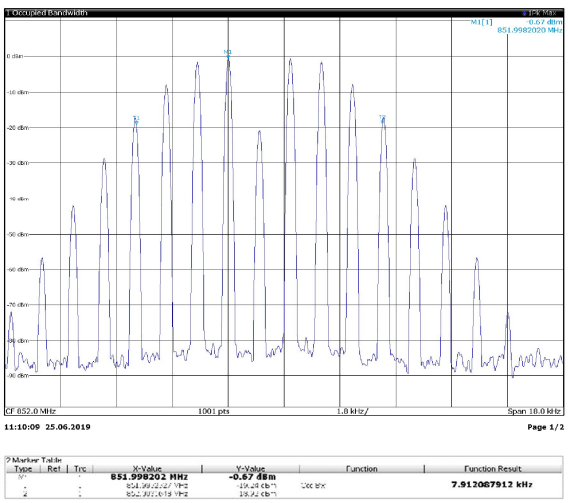
Input



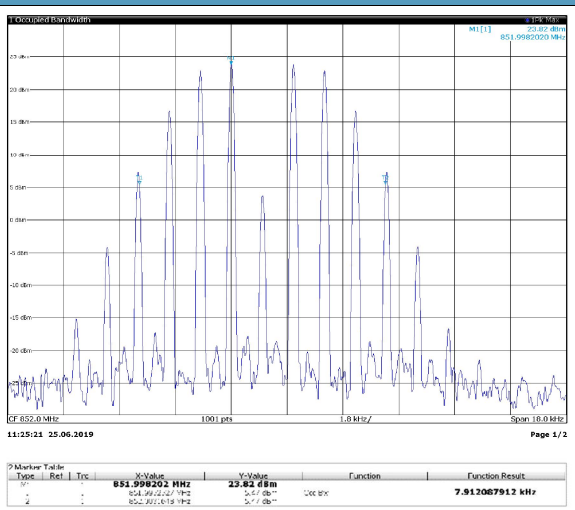
Output

99% occupied band with input at AGC threshold with 11K0F3E signal at 852 MHz

Test data



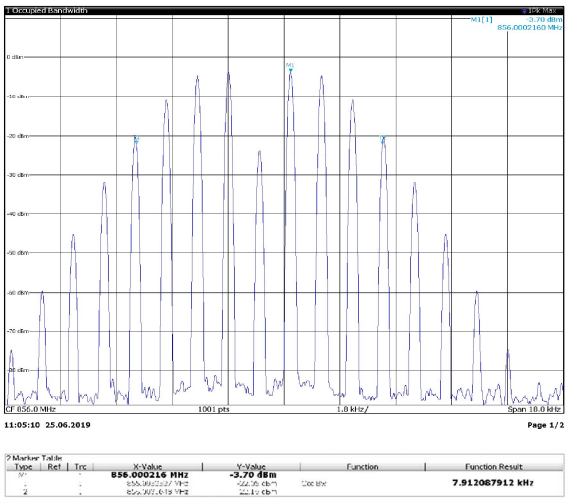
Input



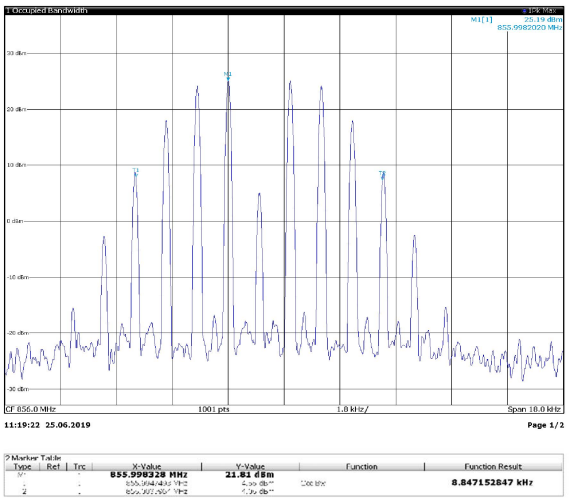
Output

99% occupied band input at AGC threshold +3dB with 11K0F3E signal at 852 MHz

Test data



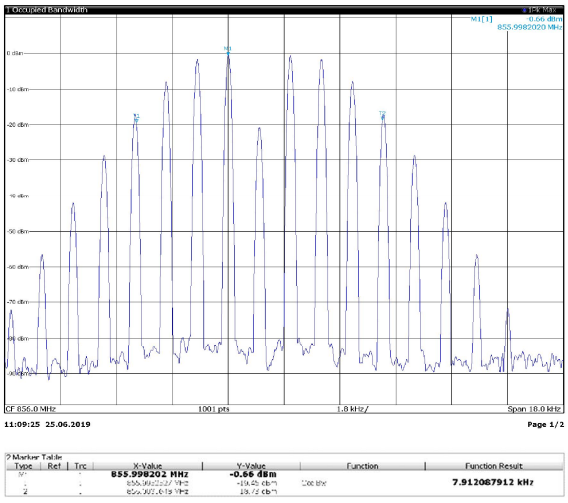
Input



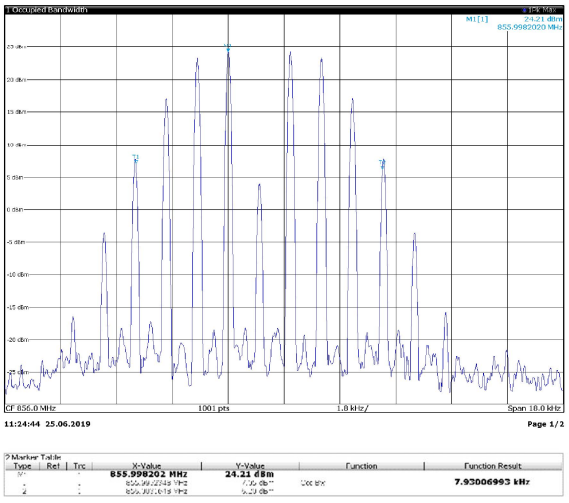
Output

99% occupied band with input at AGC threshold with 11K0F3E signal at 856 MHz

Test data



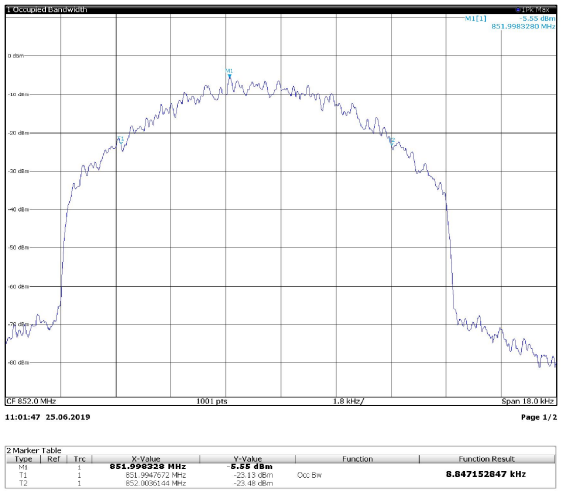
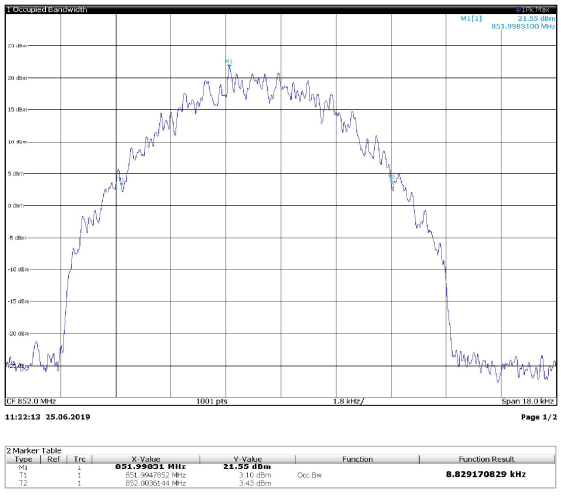
Input



Output

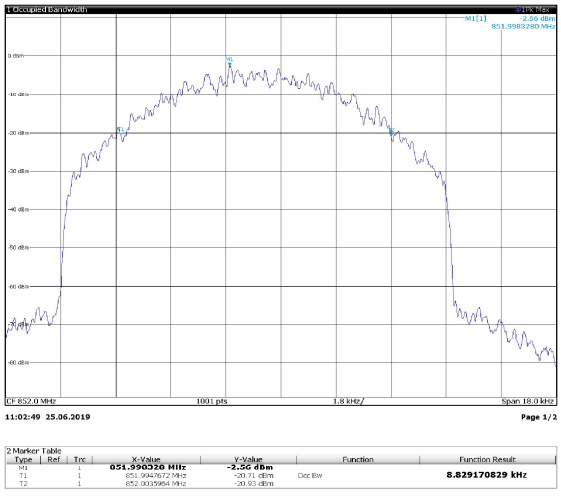
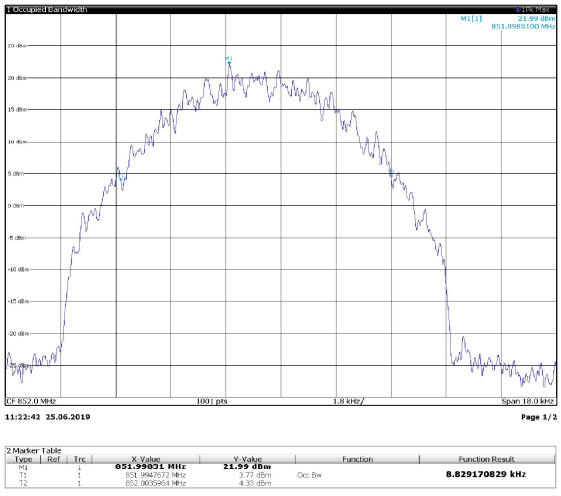
99% occupied band input at AGC threshold +3dB with 11K0F3E signal at 856 MHz

Test data

Input	Output
	

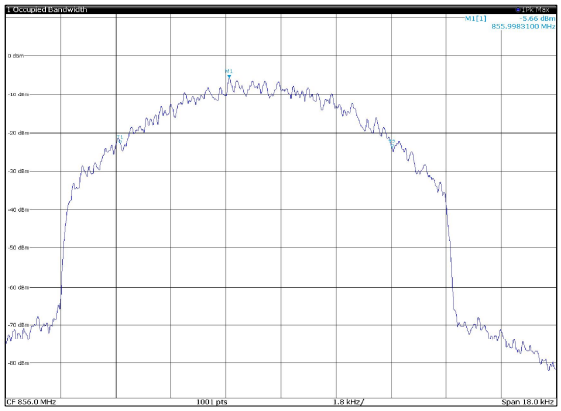
99% occupied band with input at AGC threshold with 8K70D1W signal at 852 MHz

Test data

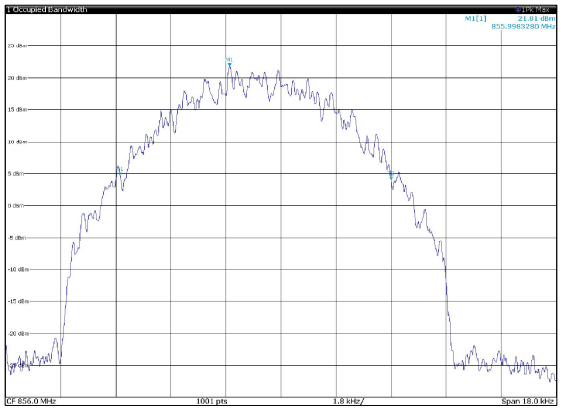
Input	Output
	

99% occupied band input at AGC threshold +3dB with 8K70D1W signal at 852 MHz

Test data



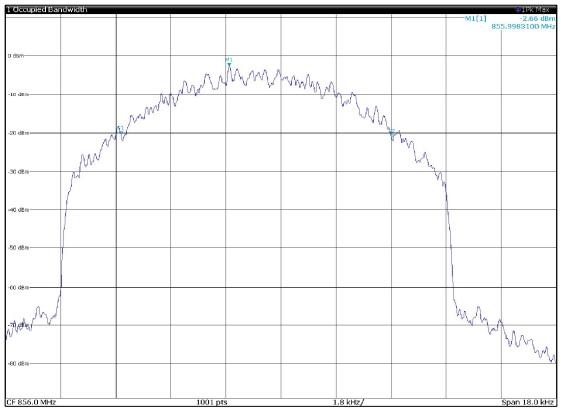
Input



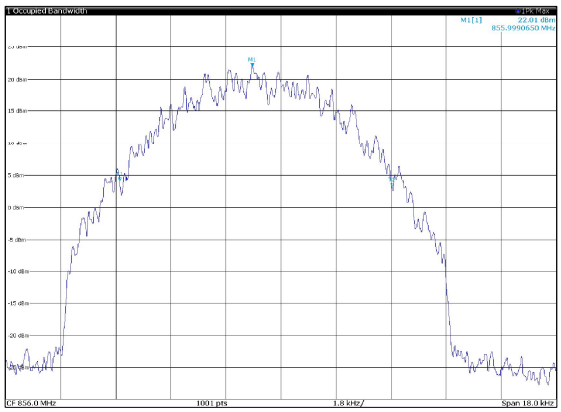
Output

99% occupied band with input at AGC threshold with 8K70D1W signal at 856 MHz

Test data



Input



Output

99% occupied band input at AGC threshold +3dB with 8K70D1W signal at 856 MHz

6.4 Input/output power and amplifier/booster gain

FCC 90.635(a)

The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table. These are maximum values, and applicants will be required to justify power levels and antenna heights requested.

FCC 90.219(e)(1)

The output power capability of a signal booster must be designed for deployments providing a radiated power not exceeding 5 Watts ERP for each retransmitted channel.

RSS-131 clause 6.2

The output power of the zone enhancer shall comply with the transmitter output power of the equipment with which it is to be used (as specified in RSS-119) and shall be within ± 1.0 dB of the zone enhancer manufacturer's rated output power

RSS-119 clause 5.4

The output power shall be within ±1 dB of the manufacturer's rated power listed in the equipment specifications. The transmitter output power limits set forth in Table 2 will come into force upon the publication of Issue 12 of this standard and will apply to newly certified equipment.

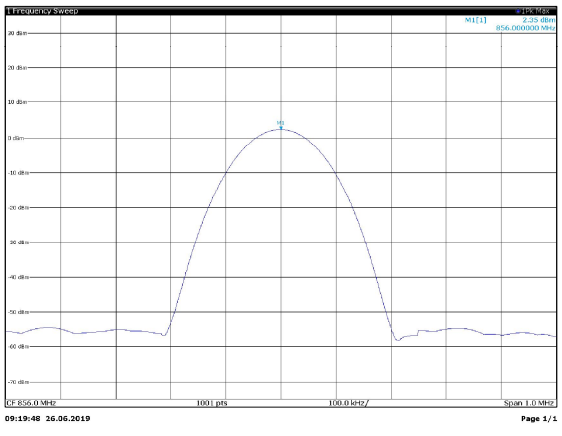
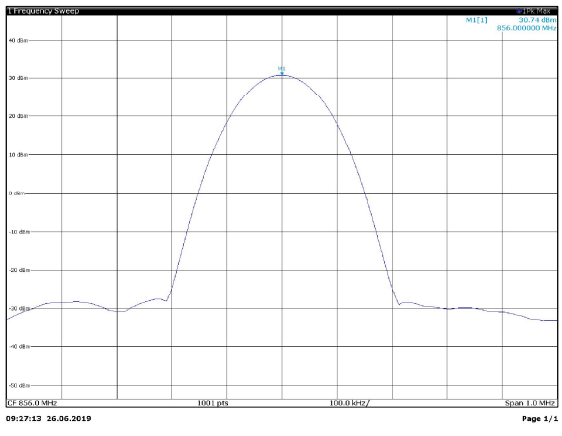
Table 2 —Transmitter Output Power

Frequency Bands (MHz)	Transmitter Output Power (W)	
	Base/Fixed Equipment	Mobile Equipment
27.41-28 and 29.7-50	300	30
72-76	No limit	1
138-174	110	60
217-218 and 219-220	110	30
220-222	See SRSP-512 for ERP limit	50
406.1-430 and 450-470	110	60
768-776 and 798-806	See SRSP-511 for ERP limit	30 3 W ERP for portable equipment
806-821/851-866 and 821-824/866-869	110	30
896-901/935-940	110	60
929-930/931-932	110	30
928-929/952-953 and 932-932.5/941-941.5	110	30
932.5-935/941.5-944	110	30

Test date: 2019-06-26
Test results: Pass

Special notes
Modulation used: CW

Test data
Gmax antenna gain (dBi) = 39.14 - 30.74 = 8.40 dBi

Test data	
	
Input	Output
Output power with input at AGC threshold with CW signal at 856 MHz	
Gain (dB) = output power (dBm) – input power (dBm) = 28.39	