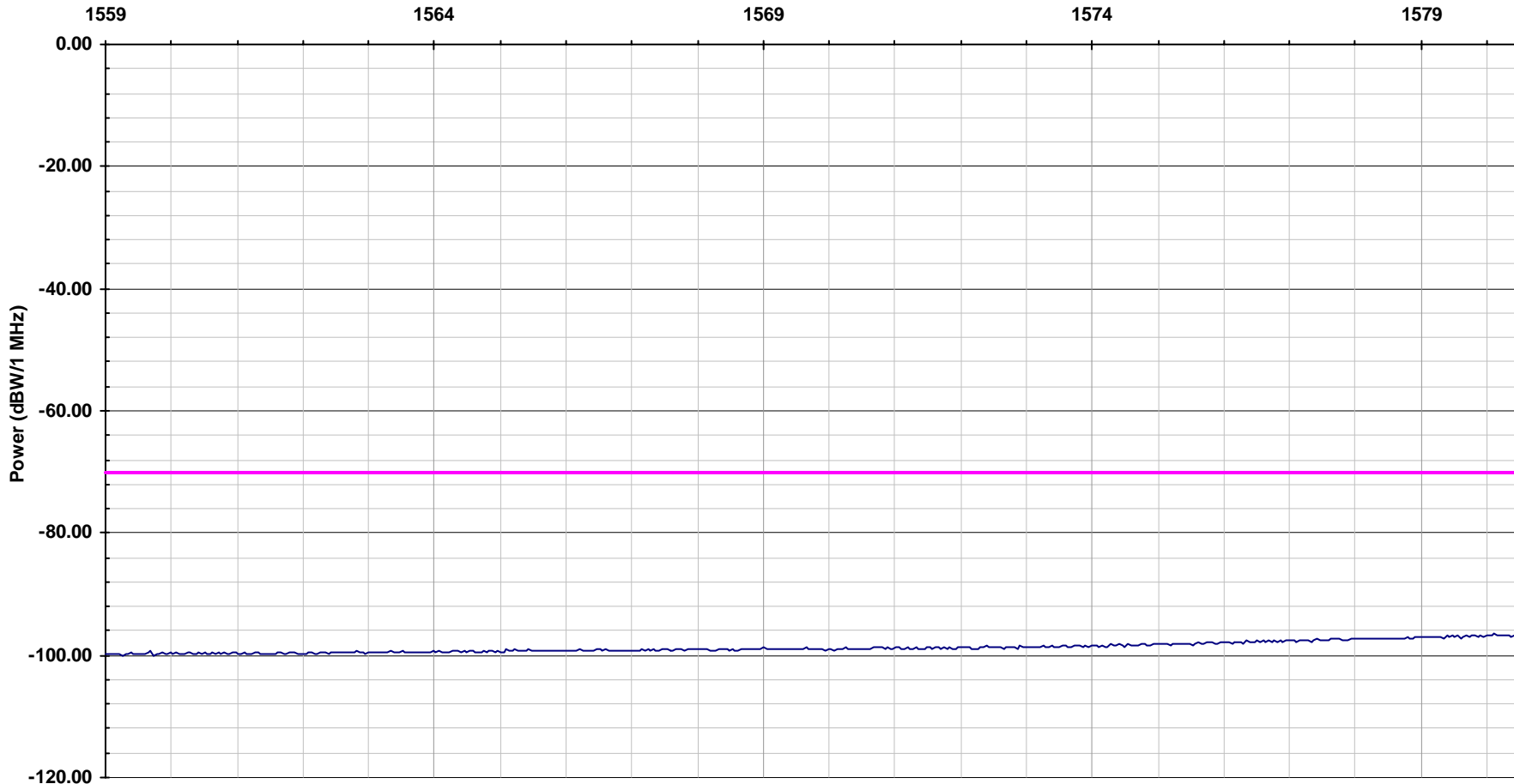


The following plots present data demonstrating compliance for the GSP-2800RA (FCC ID J:9CGSAF2) with FCC CFR47 Part 25.200. Data is presented for both the DRA and helical antenna.

**Part 25.200 (c) - Wideband Emissions Low Channel with DRA
antenna with DRA antenna**

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

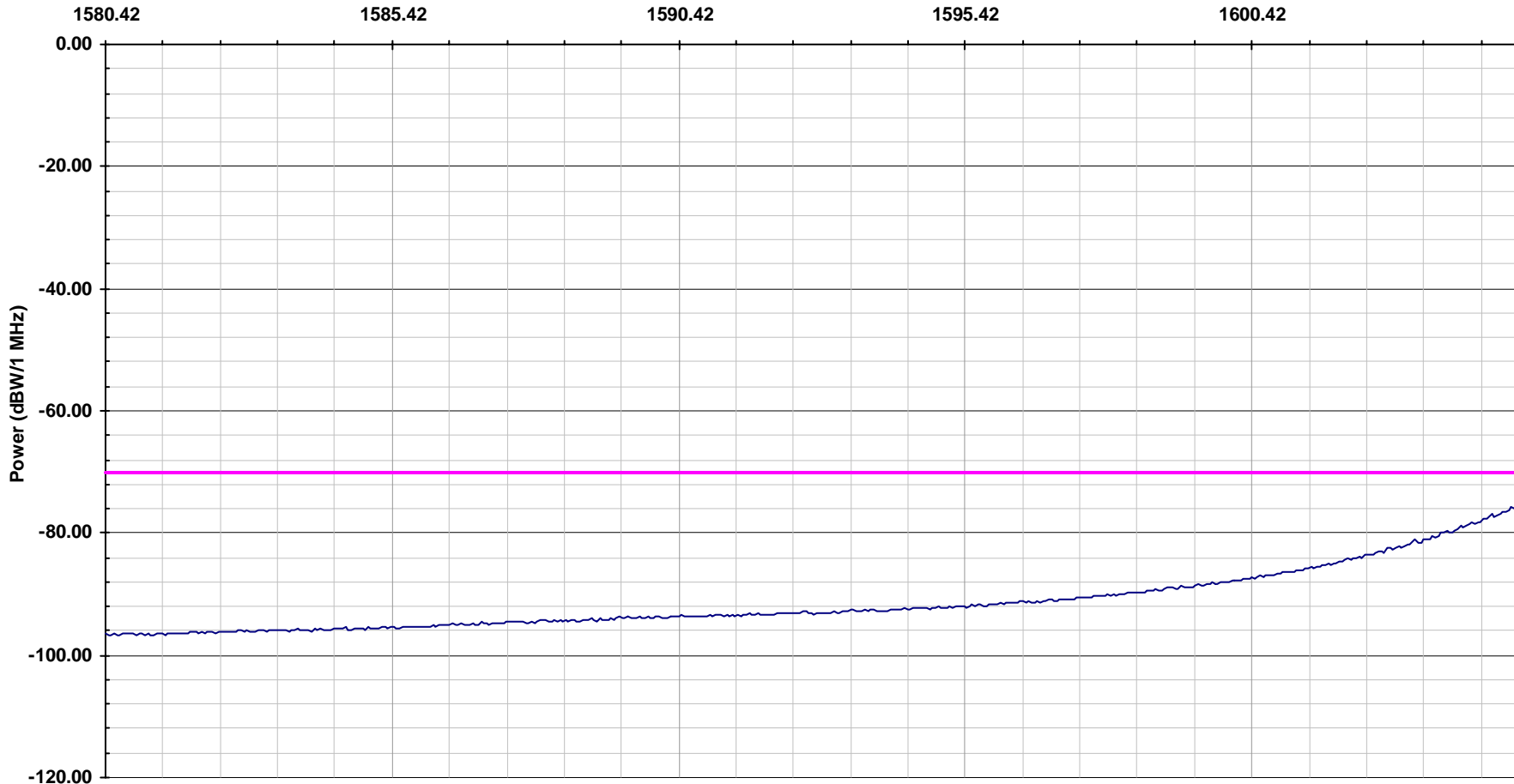
90



Max: -96.53 dBW @1580.1195 MHz **Frequency (MHz)**
Min: -99.99 dBW @1559.2576 MHz **Ave:** -98.7236 dBW

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

91



Max: -75.78 dBW @1604.9507 MHz **Frequency (MHz)**
Min: -96.78 dBW @1580.6663 MHz **Ave:** -91.3444 dBW

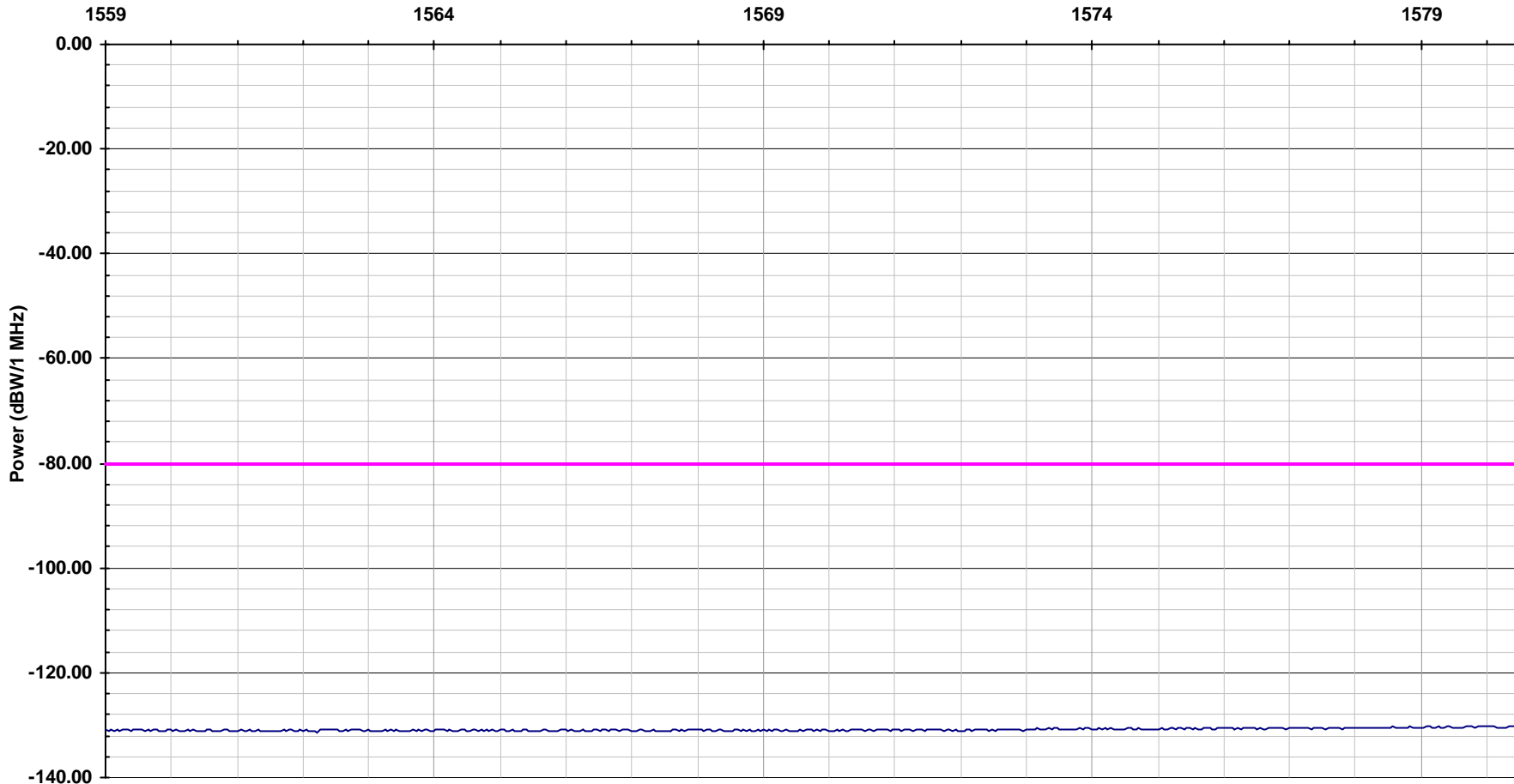
**Part 25.200 (c) - Wideband Emissions Middle Channel with DRA
antenna**

PlotTitle

Plot Number

Channel# 250 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

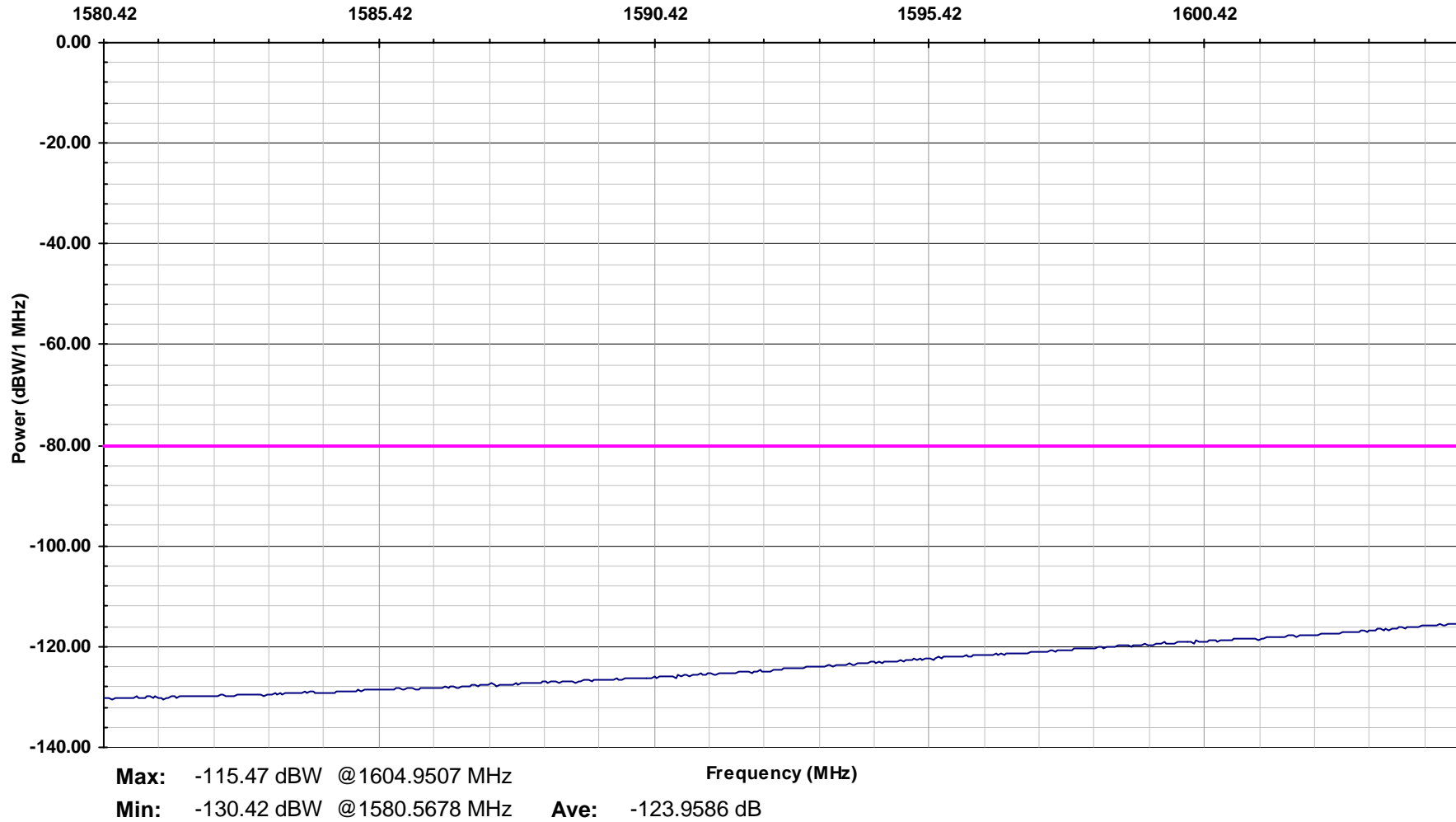
286



Max: -130.06 dBW @1580.0337 MHz **Frequency (MHz)**
Min: -131.39 dBW @1562.2194 MHz **Ave:** -130.8596 dB

Channel# 250 @ 25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

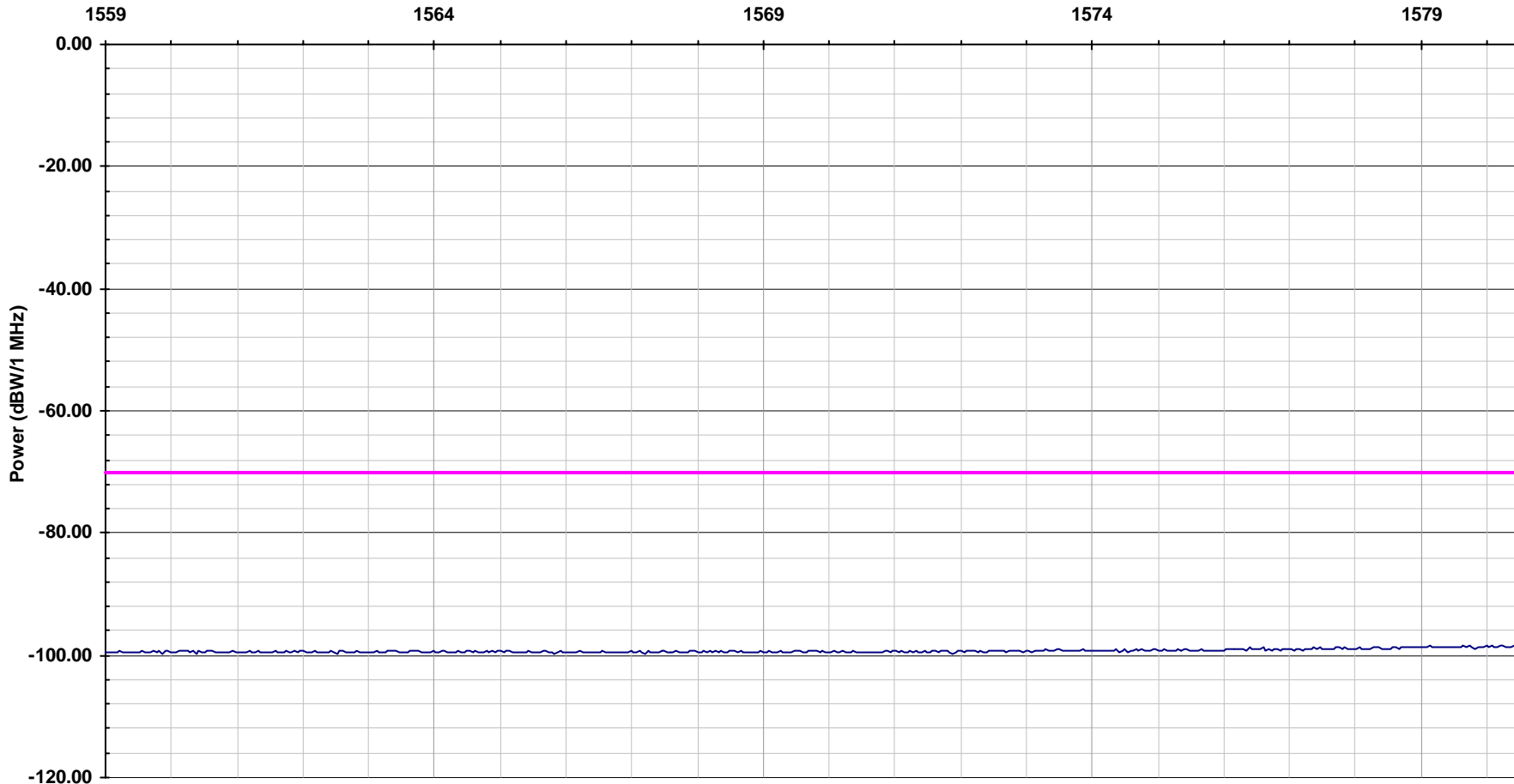
287



**Part 25.200 (c) - Wideband Emissions High Channel with DRA
antenna**

Channel# 332 @ 25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

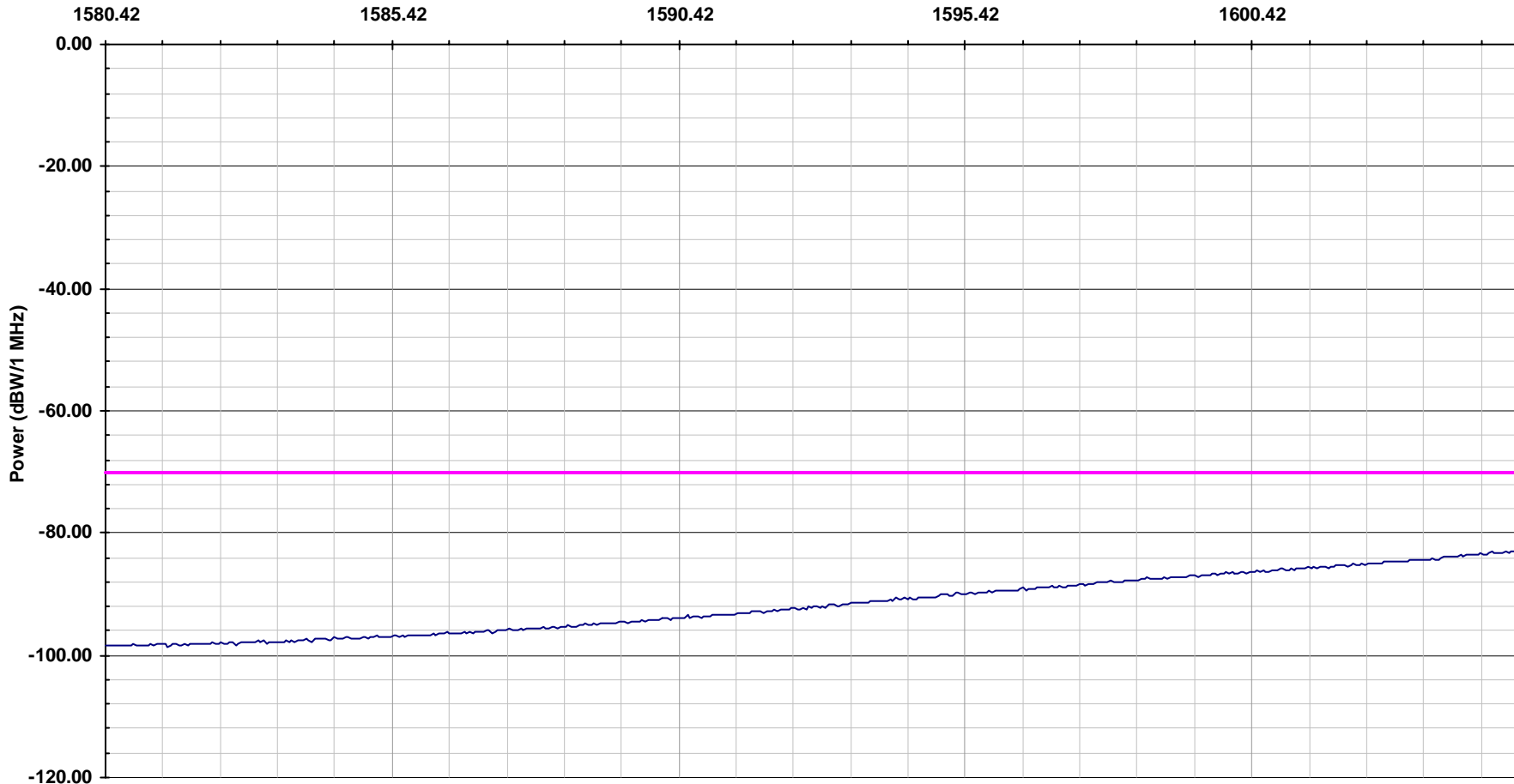
478



Max: -98.28 dBW @ 1580.2054 MHz **Frequency (MHz)**
Min: -99.73 dBW @ 1560.3736 MHz **Ave:** -99.2826 dBW

Channel# 332 @ 25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

479

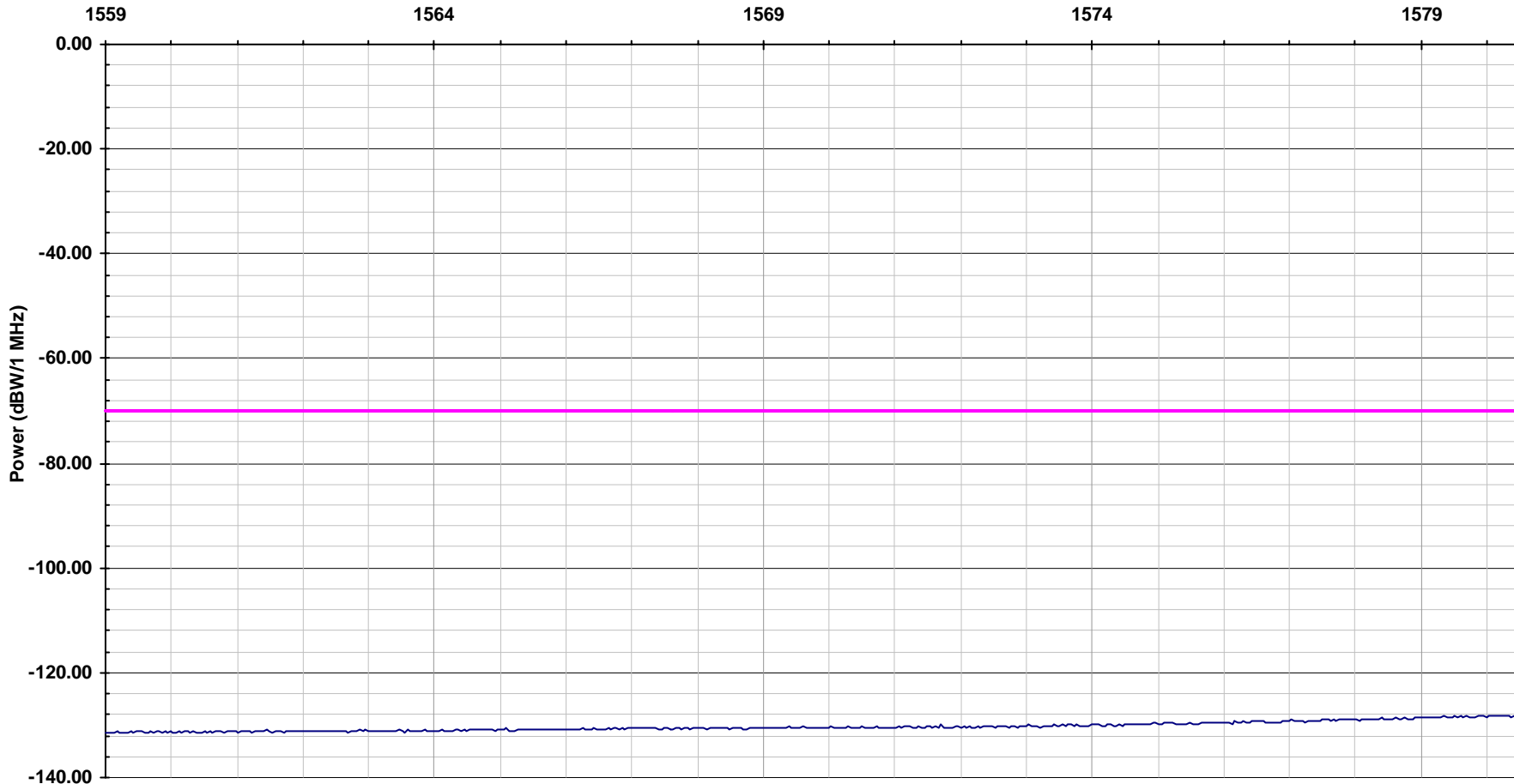


Max: -83.05 dBW @ 1604.6059 MHz **Frequency (MHz)**
Min: -98.59 dBW @ 1581.5037 MHz **Ave:** -91.7452 dBW

**Part 25.200 (c) - Narrowband Emissions Low Channel with DRA
antenna**

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

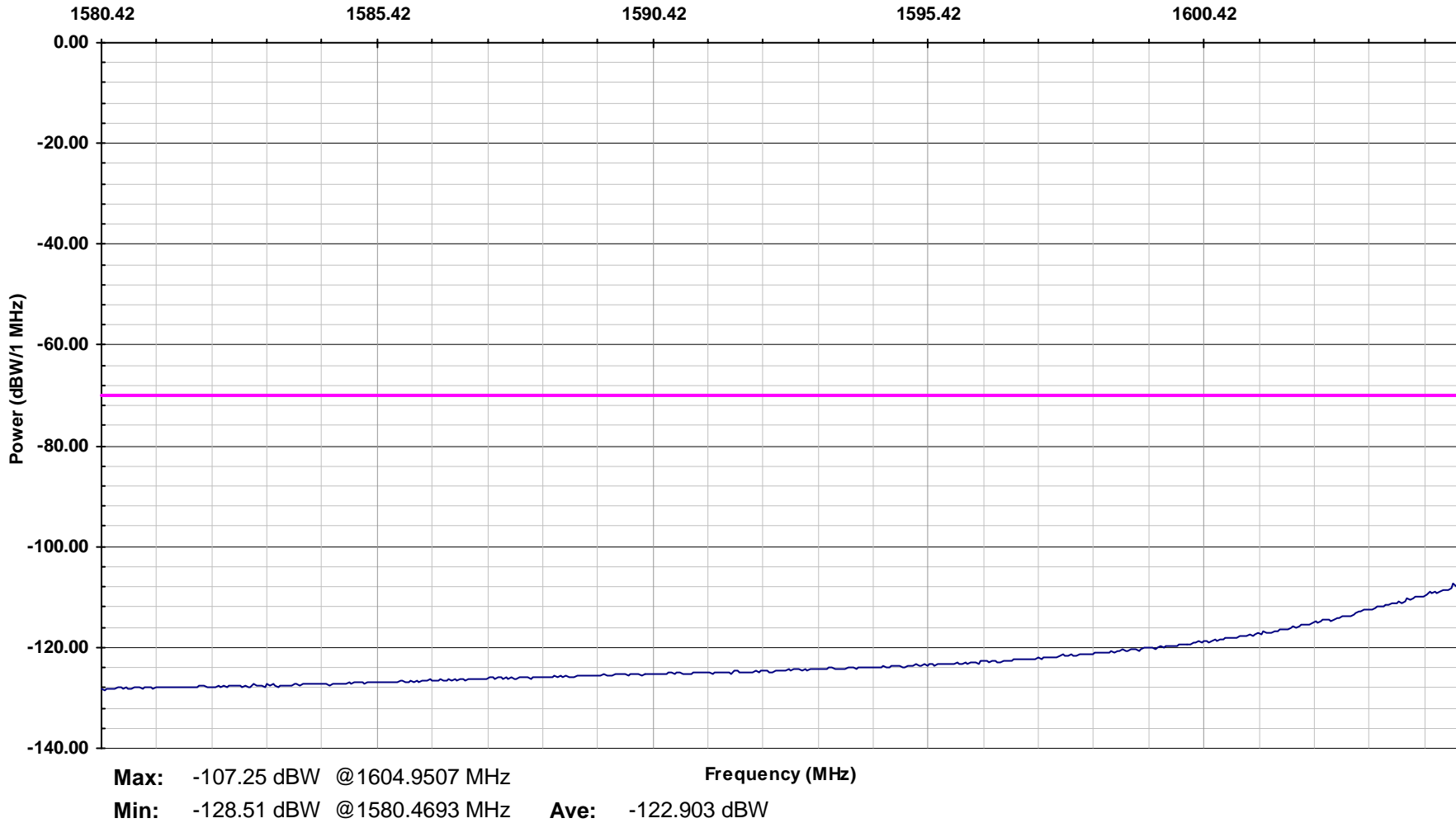
92



Max: -128.07 dBW @1579.6903 MHz
Min: -131.53 dBW @1559.3434 MHz **Ave:** -130.2809 dB

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

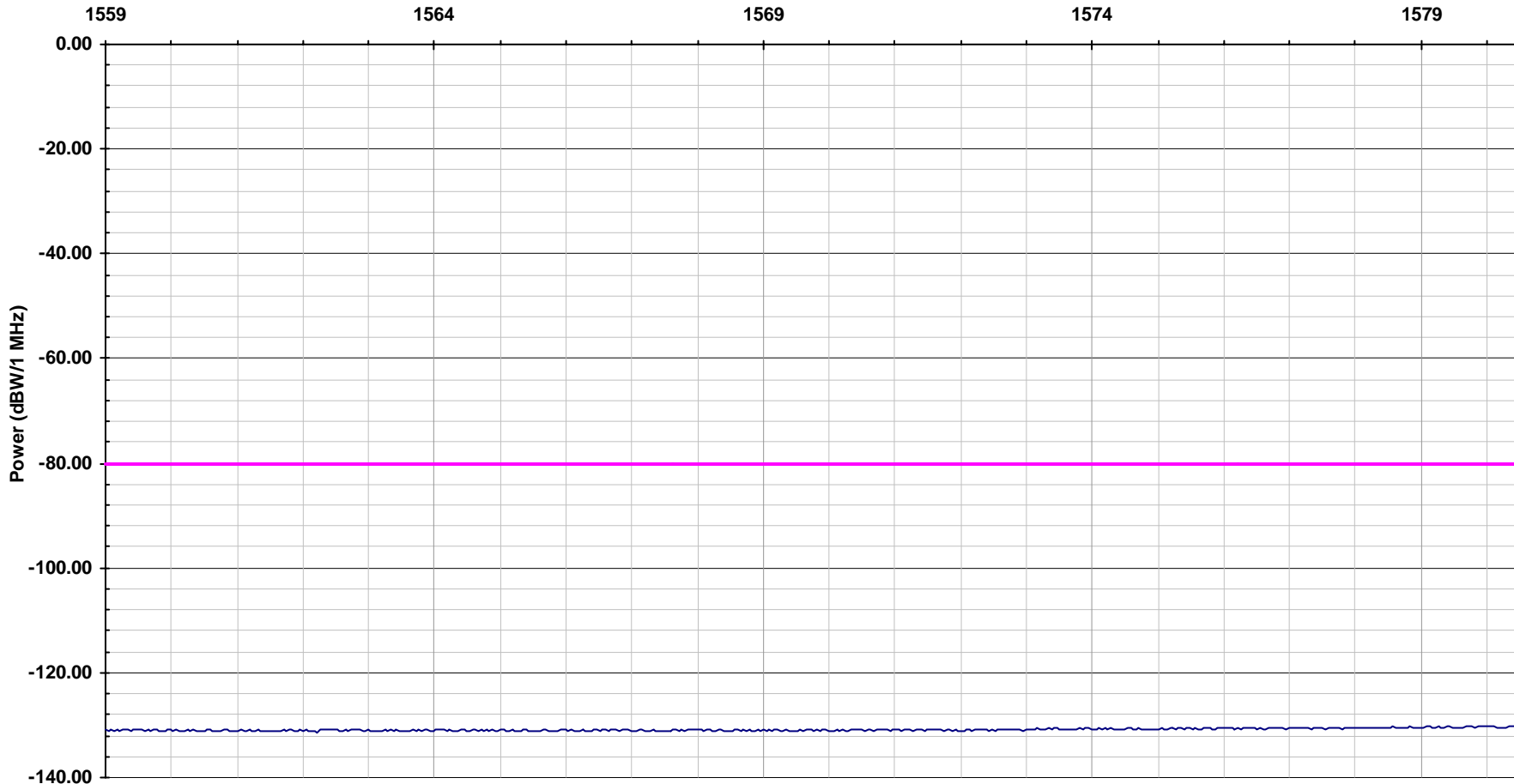
93



**Part 25.200 (c) - Narrowband Emissions Middle Channel with
DRA antenna**

Channel# 250 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

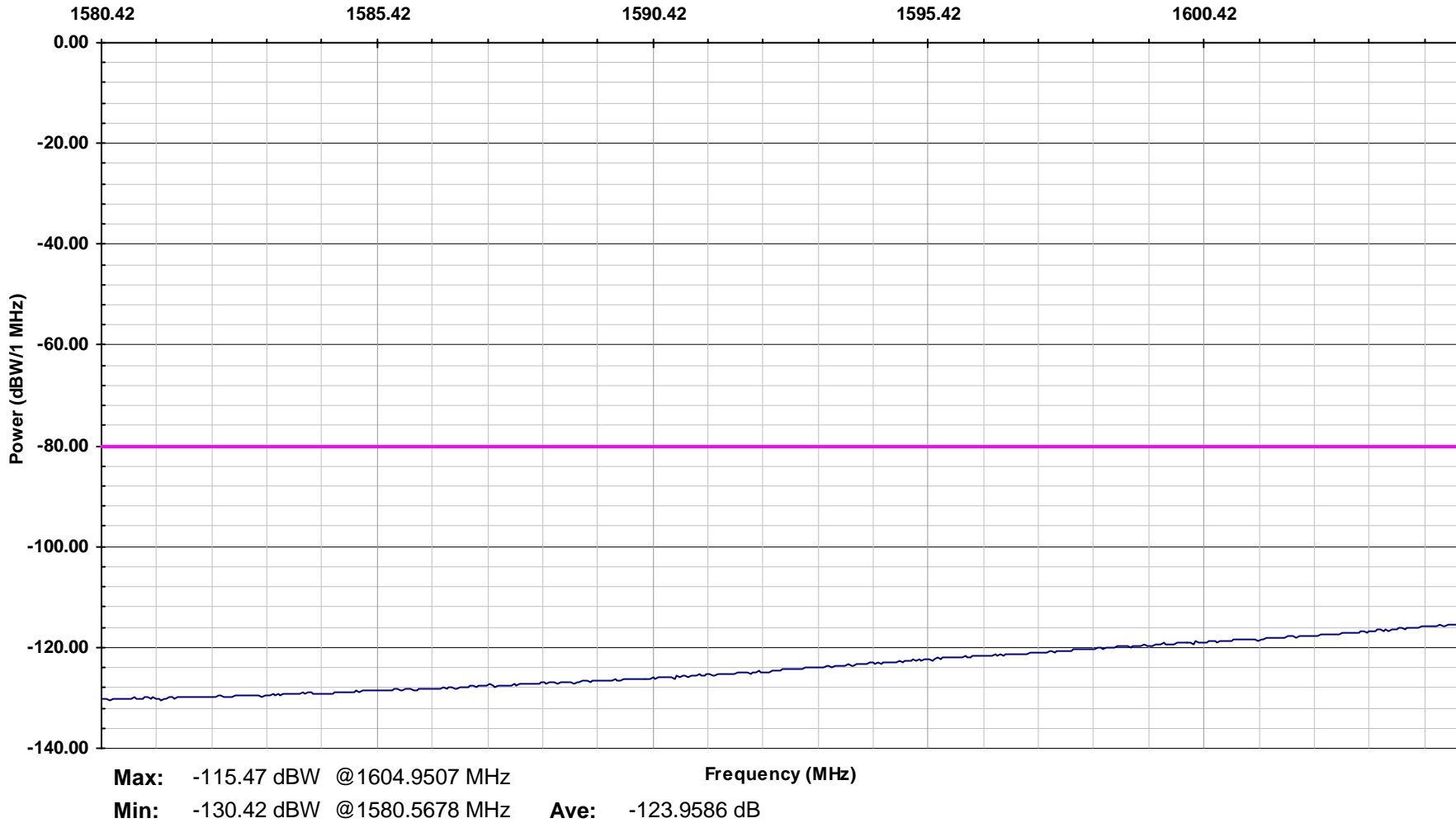
286



Max: -130.06 dBW @1580.0337 MHz **Frequency (MHz)**
Min: -131.39 dBW @1562.2194 MHz **Ave:** -130.8596 dB

Channel# 250 @ 25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

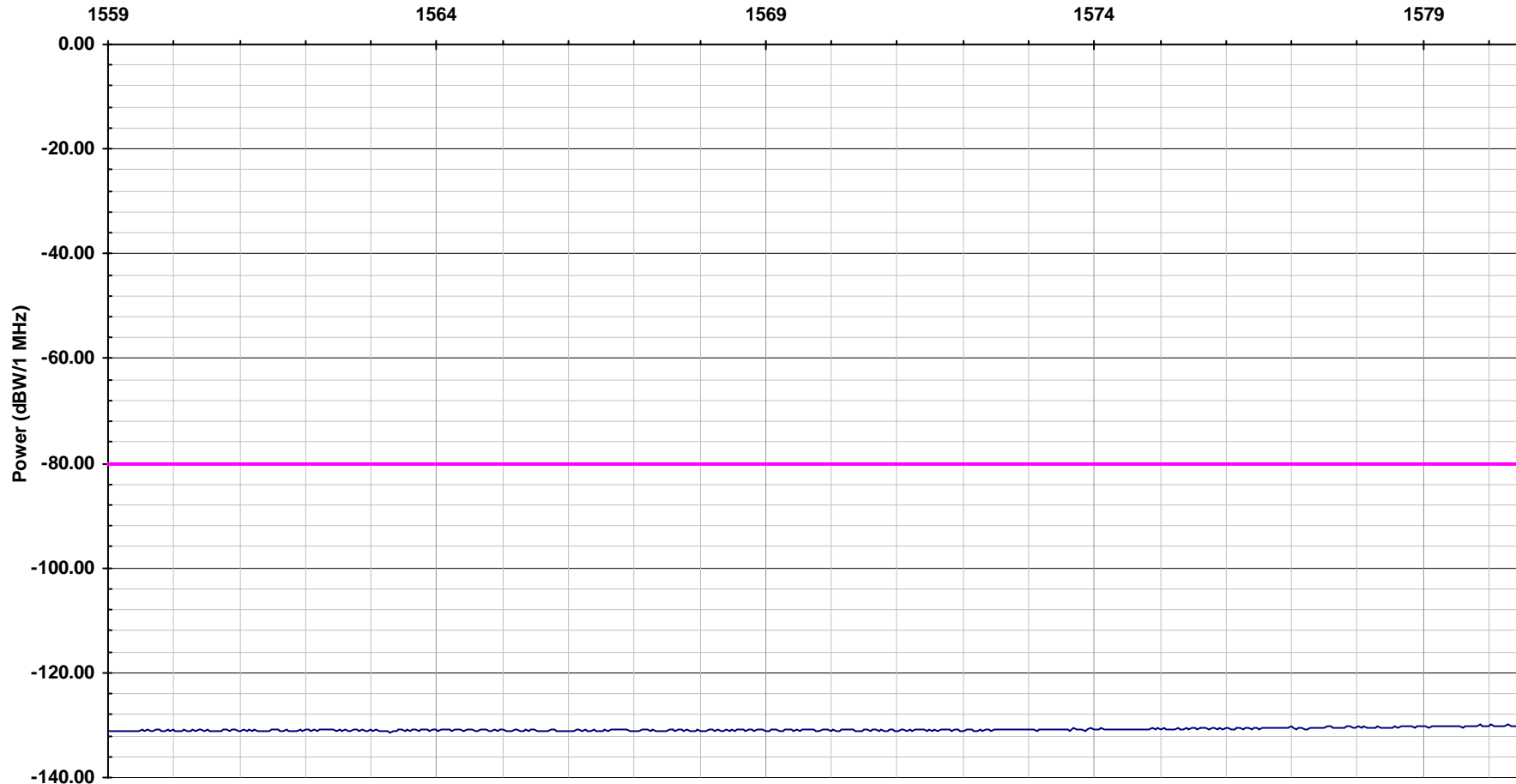
287



**Part 25.200 (c) - Narrowband Emissions High Channel with DRA
antenna**

Channel# 332 @ 25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

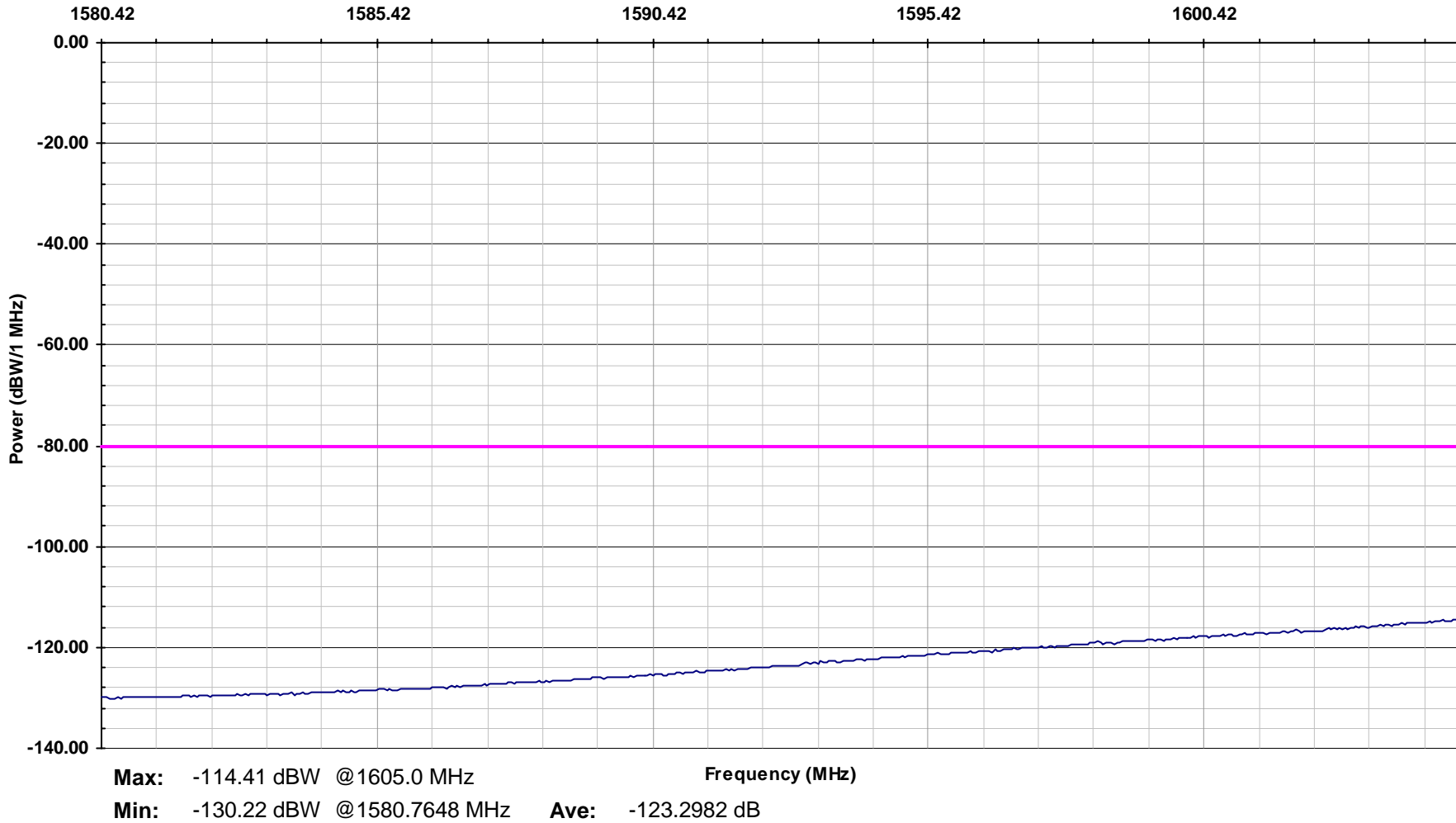
480



Max: -129.92 dBW @1580.0337 MHz **Frequency (MHz)**
Min: -131.37 dBW @1563.2926 MHz **Ave:** -130.8366 dB

Channel# 332 @ 25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

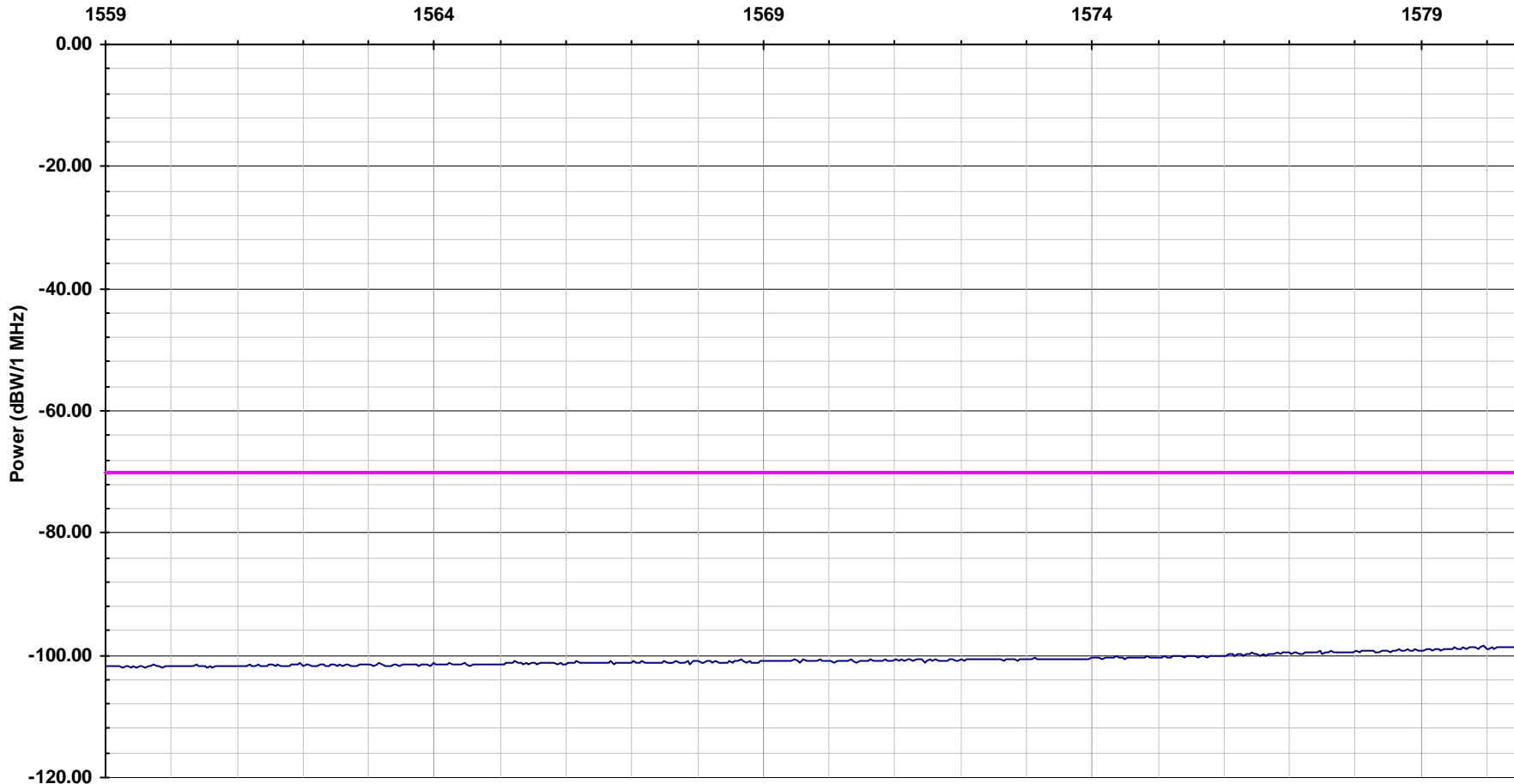
481



Part 25.200 (c) - Wideband Emissions Low Channel with Helical antenna

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

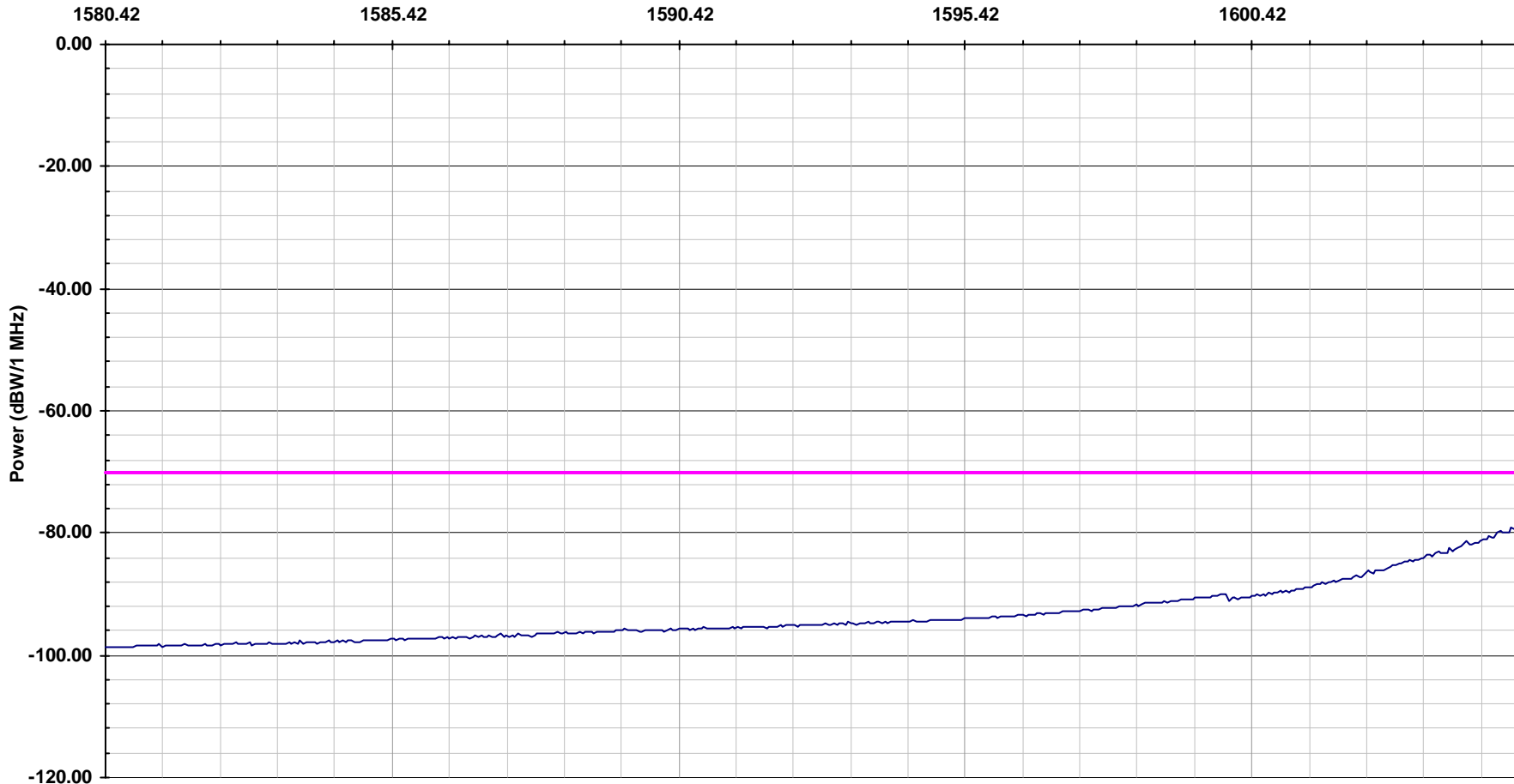
86



Max: -98.54 dBW @1579.9478 MHz **Frequency (MHz)**
Min: -102.05 dBW @1559.2576 MHz **Ave:** -100.7502 dB

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

87

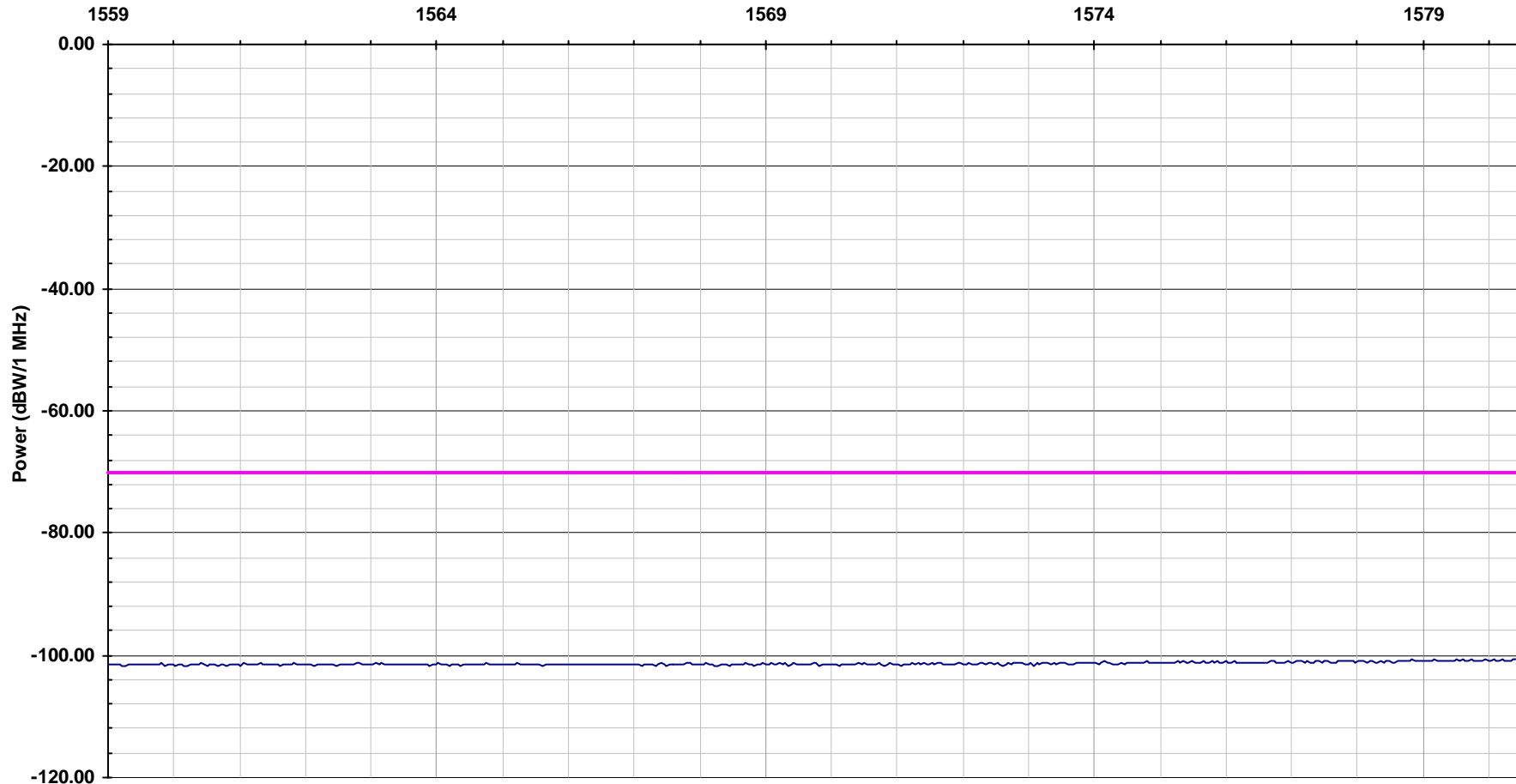


Max: -79.2 dBW @1604.9507 MHz **Frequency (MHz)**
Min: -98.76 dBW @1580.617 MHz **Ave:** -93.5872 dBW

**Part 25.200 (c) - Wideband Emissions Middle Channel with
Helical antenna**

Channel# 250 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

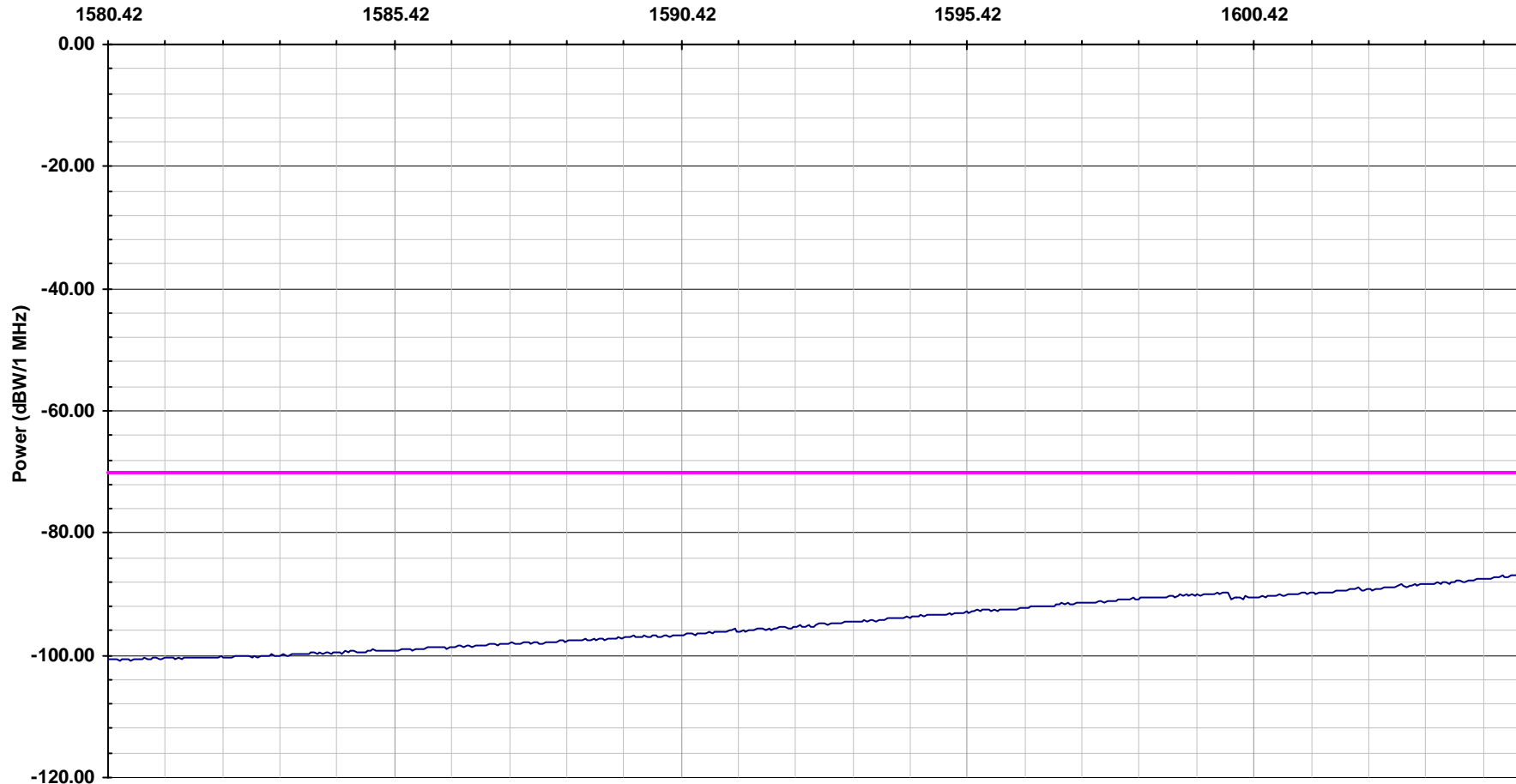
280



Max: -100.53 dBW @1580.0766 MHz **Frequency (MHz)**
Min: -101.82 dBW @1560.6741 MHz **Ave:** -101.3491 dB

Channel# 250 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

281

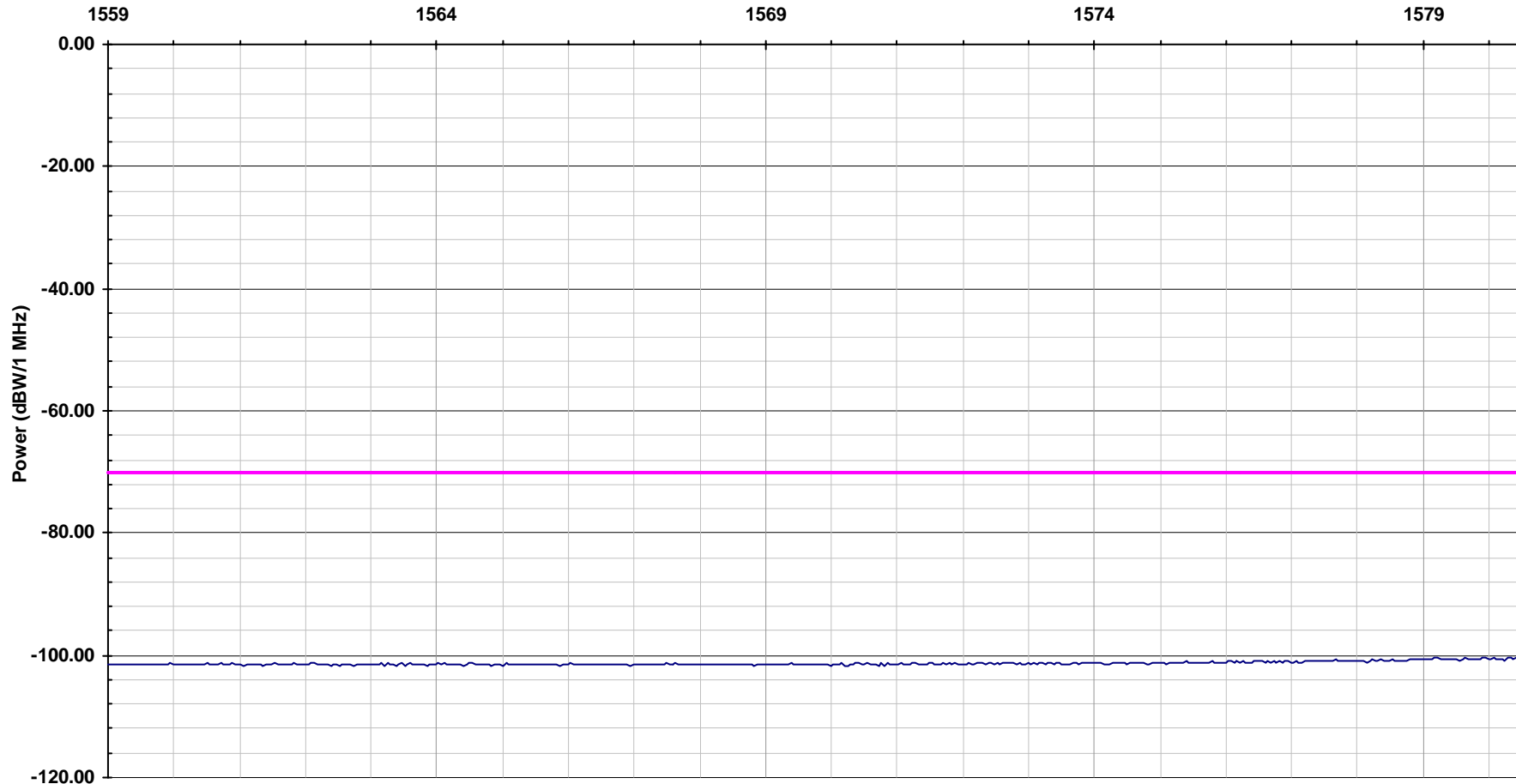


Max: -86.82 dBW @1605.0 MHz
Min: -100.81 dBW @1580.8141 MHz **Ave:** -94.675 dBW

Part 25.200 (c) - Wideband Emissions High Channel with Helical antenna

Channel# 332 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

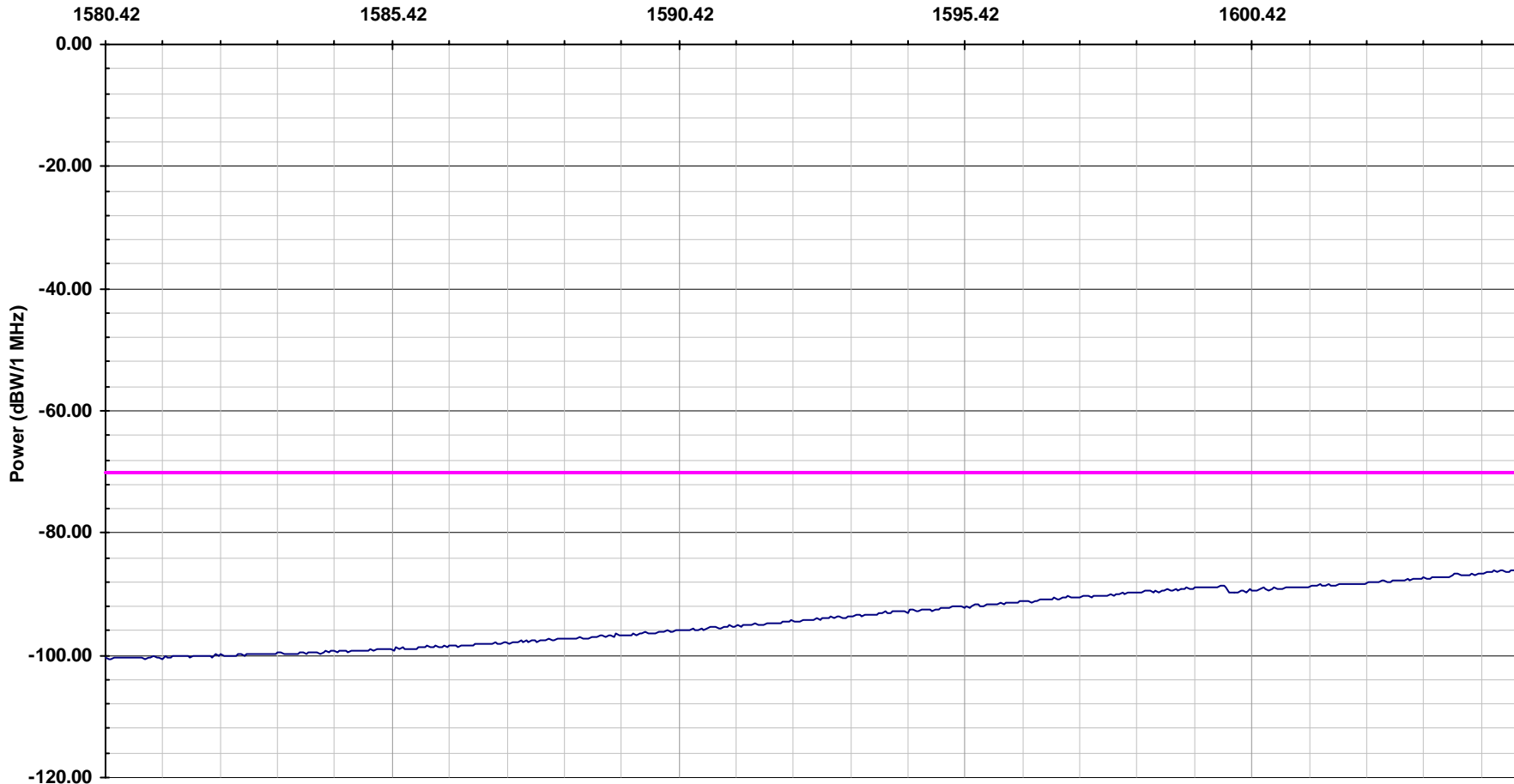
474



Max: -100.32 dBW @1579.6473 MHz **Frequency (MHz)**
Min: -101.8 dBW @1562.5199 MHz **Ave:** -101.3109 dB

Channel# 332 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

475

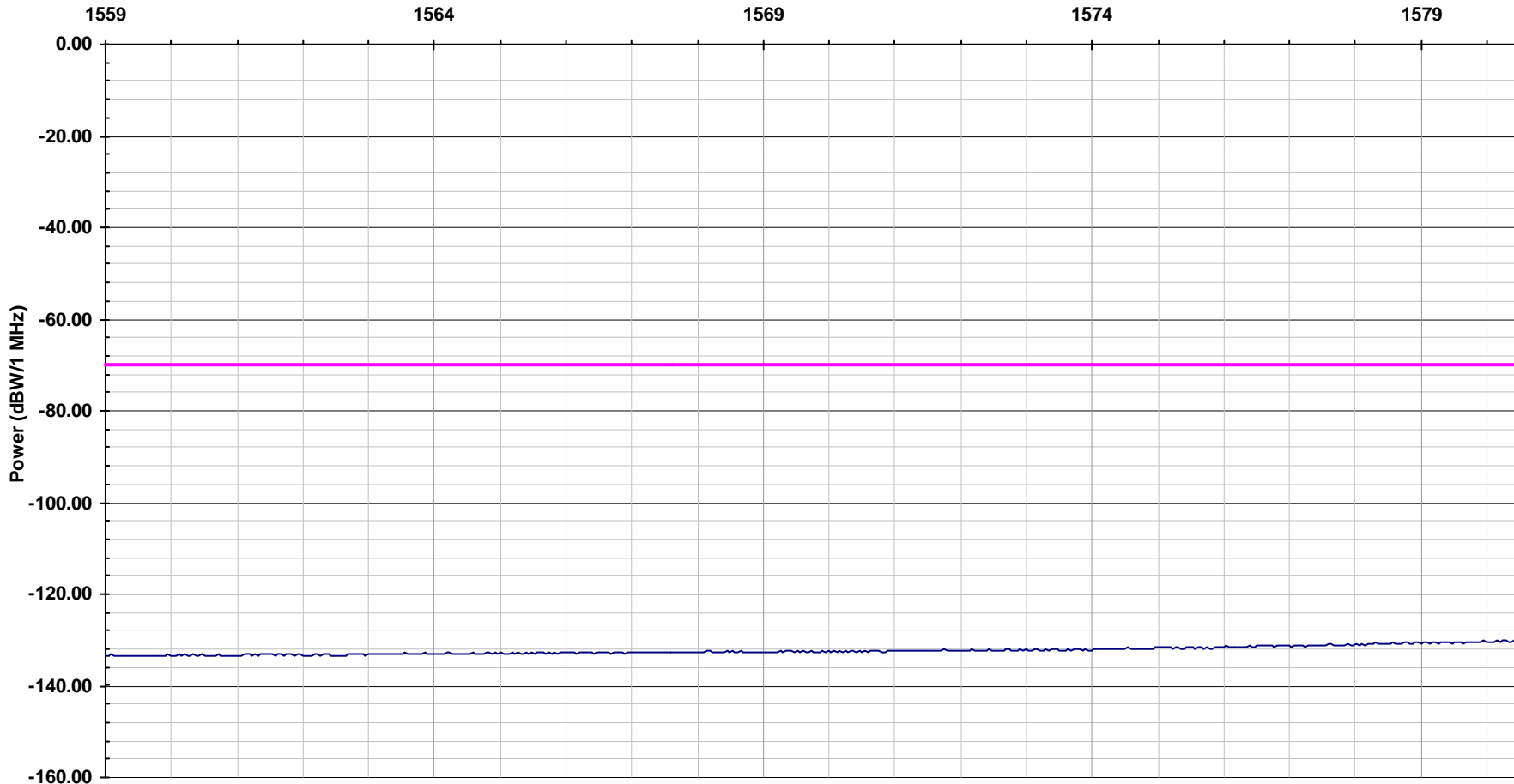


Max: -85.96 dBW @1605.0 MHz **Frequency (MHz)**
Min: -100.73 dBW @1580.5185 MHz **Ave:** -94.0076 dBW

**Part 25.200 (c) - Narrowband Emissions Low Channel with
Helical antenna**

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

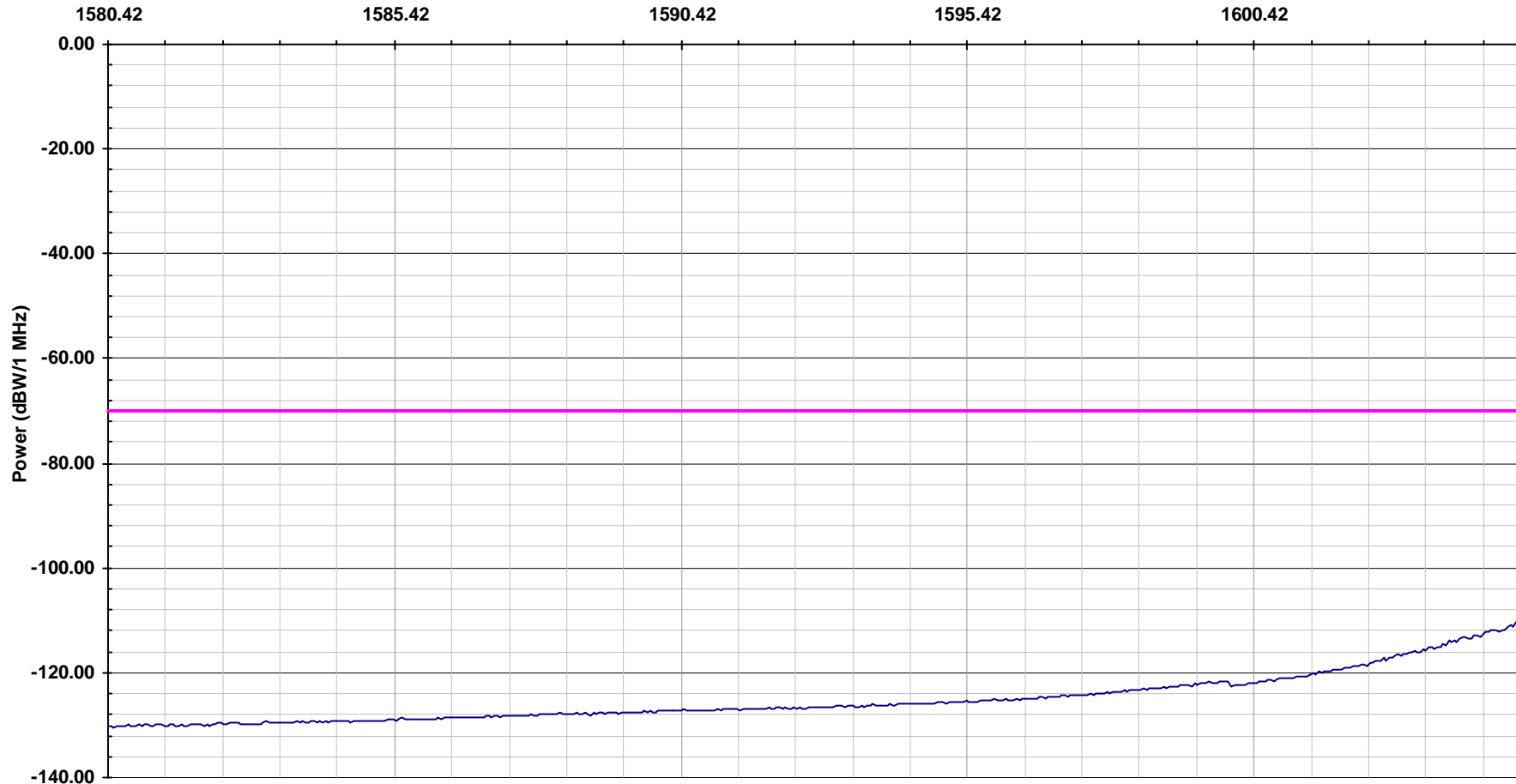
88



Max: -130.16 dBW @1580.1624 MHz **Frequency (MHz)**
Min: -133.53 dBW @1561.2321 MHz **Ave:** -132.3102 dB

Channel# 4 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

89

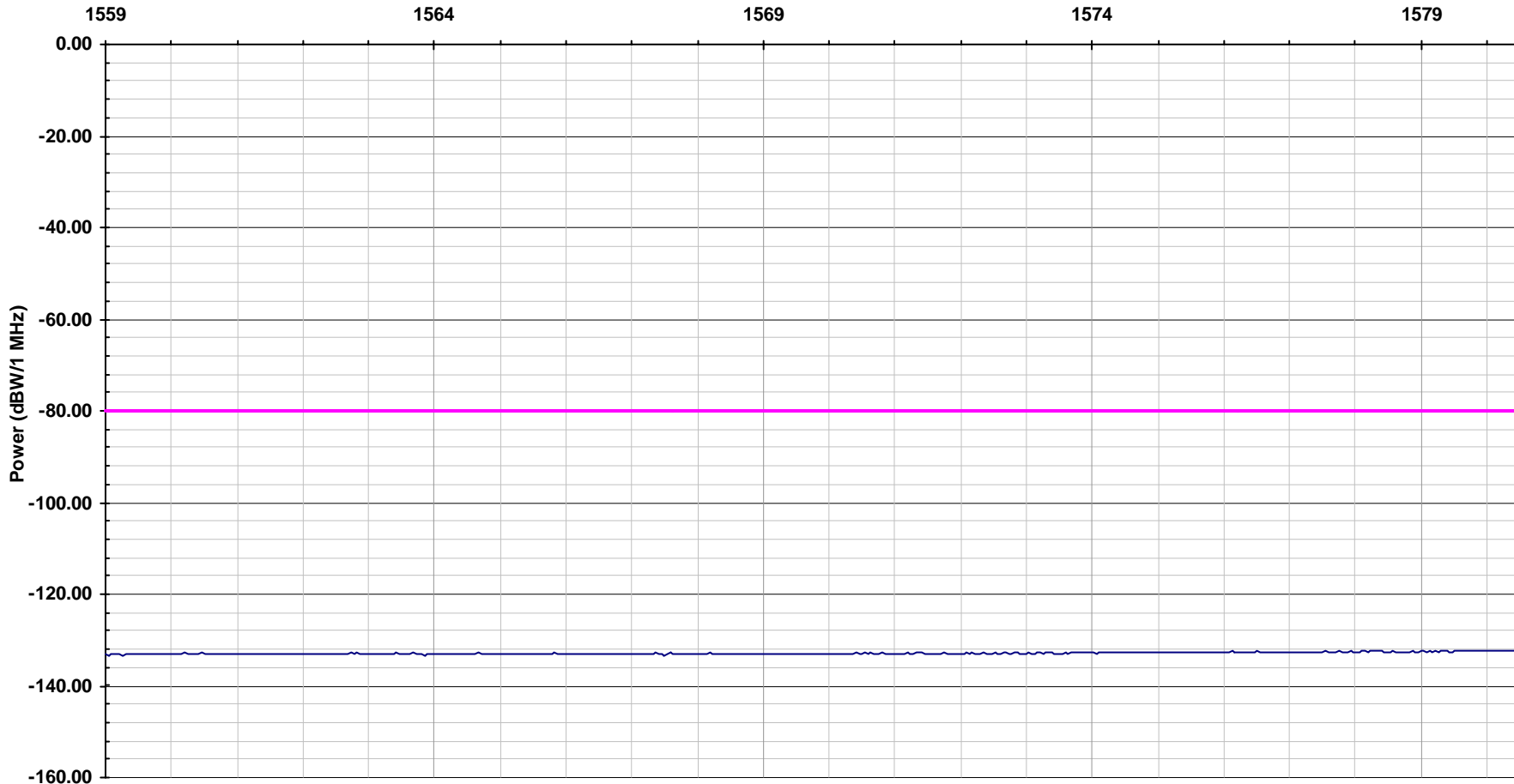


Max: -110.33 dBW @1605.0 MHz
Min: -130.41 dBW @1580.5185 MHz **Ave:** -125.1316 dB

**Part 25.200 (c) - Narrowband Emissions Middle Channel with
Helical antenna**

Channel# 250 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

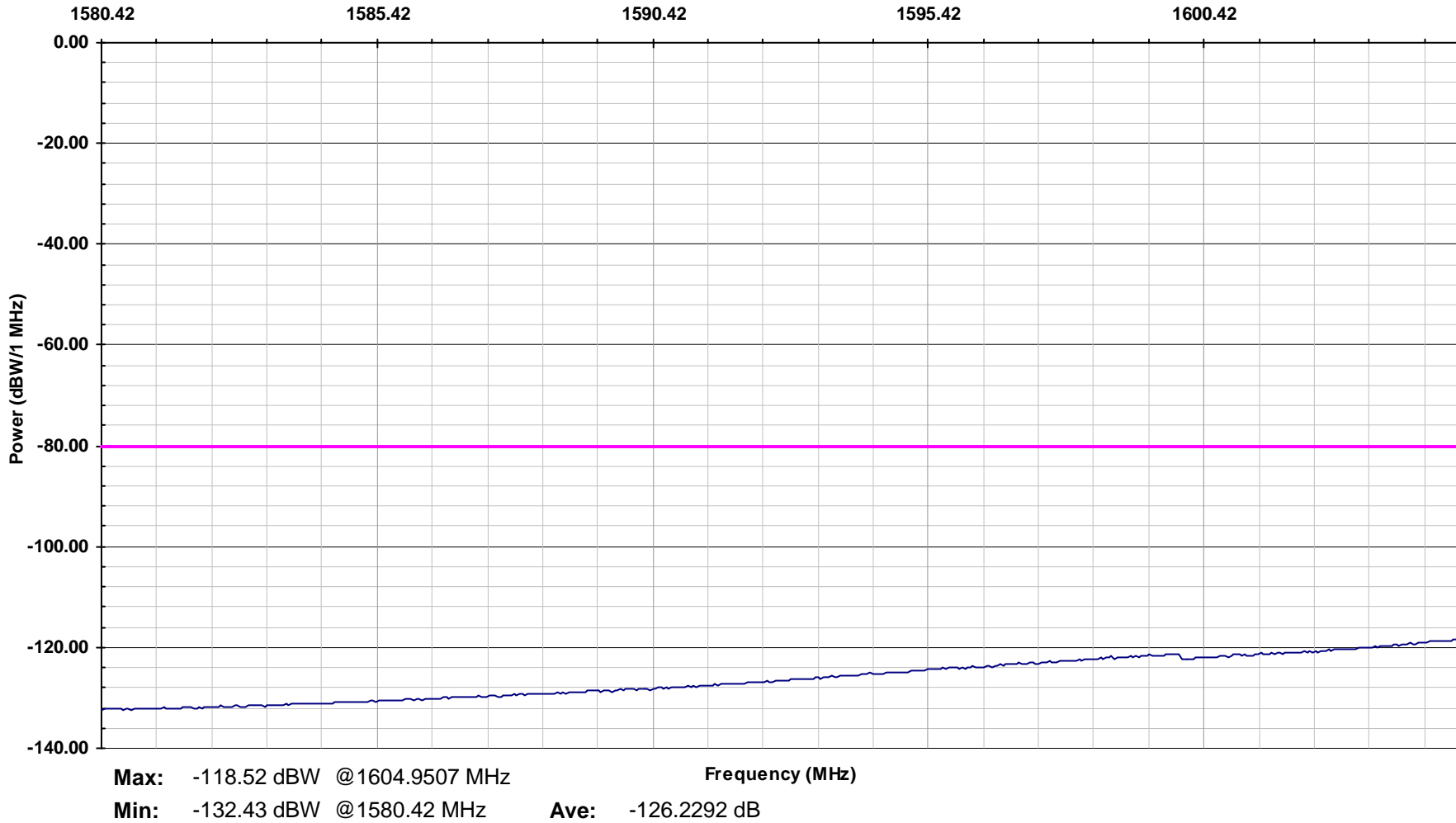
282



Max: -132.16 dBW @1579.819 MHz
Min: -133.4 dBW @1559.2576 MHz **Ave:** -132.9004 dB

Channel# 250 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

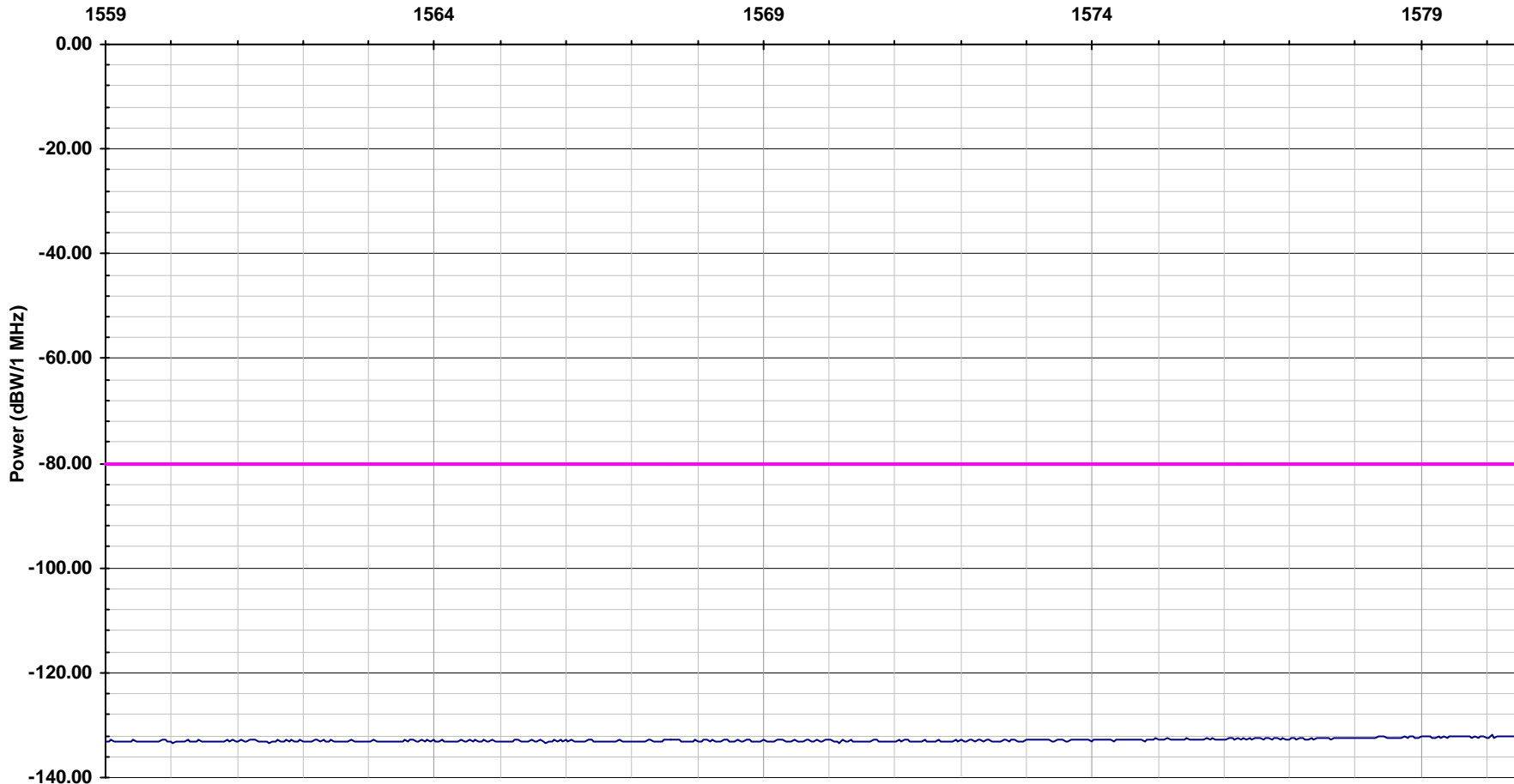
283



**Part 25.200 (c) - Narrowband Emissions High Channel with
Helical antenna**

Channel# 332 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1559.00MHz to 1580.42MHz

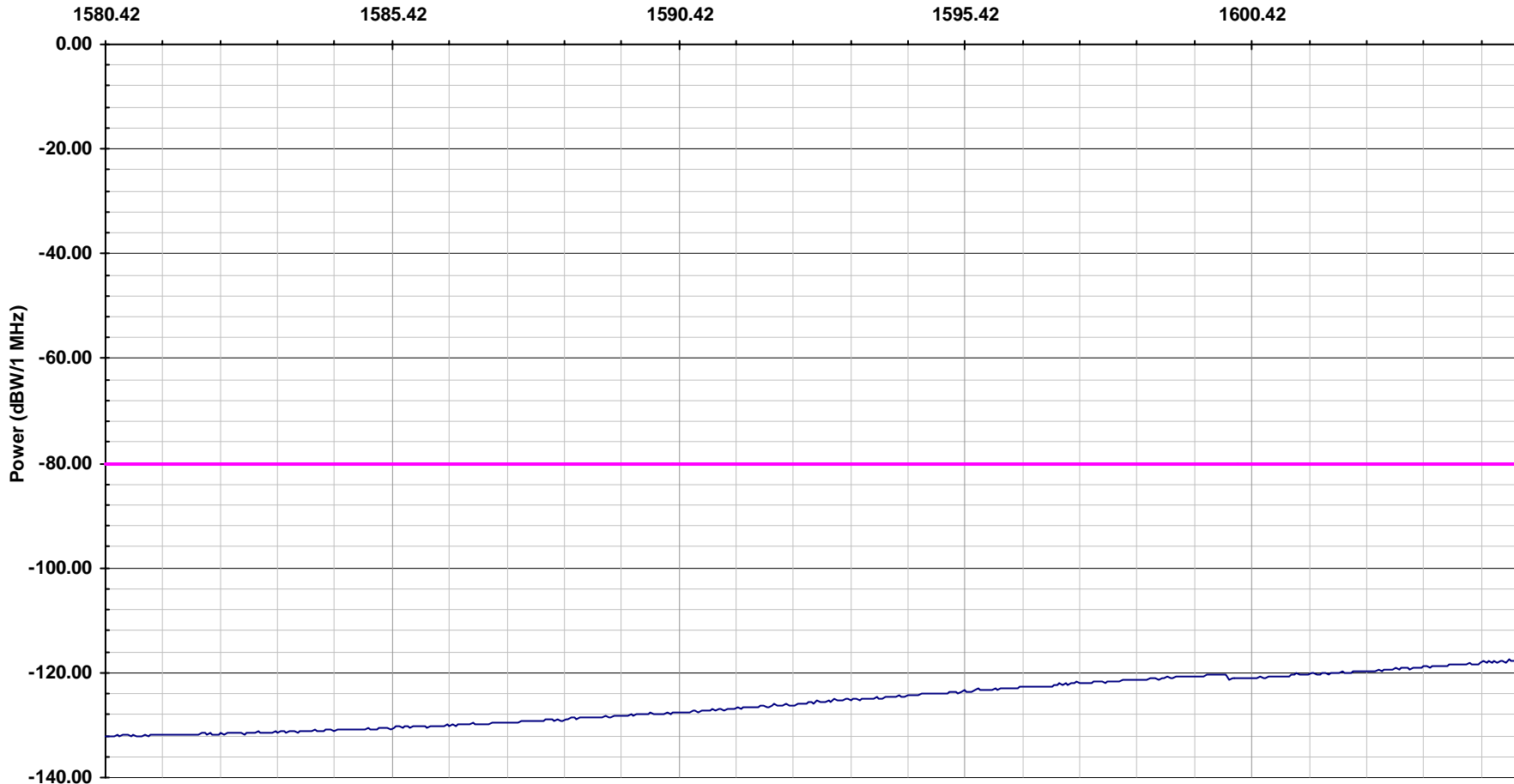
476



Max: -131.98 dBW @1580.0766 MHz **Frequency (MHz)**
Min: -133.32 dBW @1560.0302 MHz **Ave:** -132.8791 dB

Channel# 332 @25.00°C, 12.00V: FCC Out-of-band Emissions: 1580.42MHz to 1605.00MHz

477



Max: -117.53 dBW @1604.9015 MHz **Frequency (MHz)**
Min: -132.18 dBW @1580.5185 MHz **Ave:** -125.5651 dB