

Fchannel = 2440.5 MHz

| Channel Frequency (Nominal) = <u>2440.50</u> MHz       |                        |                                      |                      |
|--------------------------------------------------------|------------------------|--------------------------------------|----------------------|
| Bit Error Rate = <u>1.00E-04</u>                       |                        |                                      |                      |
| Required S/N for BER = <u>11.0</u> dB                  |                        |                                      |                      |
| System Losses = <u>2.0</u> dB                          |                        |                                      |                      |
| Desired Signal Strength at Receiver ( <u>-50.3</u> dBm |                        |                                      |                      |
| Jammer Frequency (MHz)                                 | Jammer Power (J) (dBm) | Jammer to Signal Ratio<br>J / S (dB) | Processing Gain (dB) |
| 2439.00                                                | -29.80                 | 20.5                                 | 33.5                 |
| 2439.05                                                | -31.80                 | 18.5                                 | 31.5                 |
| 2439.10                                                | -33.13                 | 17.2                                 | 30.2                 |
| 2439.15                                                | -34.63                 | 15.7                                 | 28.7                 |
| 2439.20                                                | -36.15                 | 14.2                                 | 27.2                 |
| 2439.25                                                | -37.80                 | 12.5                                 | 25.5                 |
| 2439.30                                                | -39.80                 | 10.5                                 | 23.5                 |
| 2439.35                                                | -41.80                 | 8.5                                  | 21.5                 |
| 2439.40                                                | -43.63                 | 6.7                                  | 19.7                 |
| 2439.45                                                | -45.63                 | 4.7                                  | 17.7                 |
| 2439.50                                                | -47.30                 | 3.0                                  | 16.0                 |
| 2439.55                                                | -48.96                 | 1.3                                  | 14.3                 |
| 2439.60                                                | -50.30                 | 0.0                                  | 13.0                 |
| 2439.65                                                | -51.13                 | -0.8                                 | 12.2                 |
| 2439.70                                                | -51.63                 | -1.3                                 | 11.7                 |
| 2439.75                                                | -51.80                 | -1.5                                 | 11.5                 |
| 2439.80                                                | -51.80                 | -1.5                                 | 11.5                 |
| 2439.85                                                | -51.80                 | -1.5                                 | 11.5                 |
| 2439.90                                                | -51.63                 | -1.3                                 | 11.7                 |
| 2439.95                                                | -51.63                 | -1.3                                 | 11.7                 |
| 2440.00                                                | -51.13                 | -0.8                                 | 12.2                 |
| 2440.05                                                | -51.13                 | -0.8                                 | 12.2                 |
| 2440.10                                                | -50.96                 | -0.7                                 | 12.3                 |
| 2440.15                                                | -50.80                 | -0.5                                 | 12.5                 |
| 2440.20                                                | -50.30                 | 0.0                                  | 13.0                 |
| 2440.25                                                | -50.13                 | 0.2                                  | 13.2                 |
| 2440.30                                                | -51.13                 | -0.8                                 | 12.2                 |
| 2440.31                                                | -51.30                 | -1.0                                 | 12.0                 |
| 2440.33                                                | -51.30                 | -1.0                                 | 12.0                 |
| 2440.34                                                | -50.13                 | 0.2                                  | 13.2                 |
| 2440.35                                                | -49.46                 | 0.8                                  | 13.8                 |
| 2440.36                                                | -48.63                 | 1.7                                  | 14.7                 |
| 2440.362                                               | -48.30                 | 2.0                                  | 15.0                 |
| 2440.37                                                | -48.80                 | 1.5                                  | 14.5                 |
| 2440.39                                                | -50.80                 | -0.5                                 | 12.5                 |
| 2440.40                                                | -51.60                 | -1.3                                 | 11.7                 |
| 2440.45                                                | -50.63                 | -0.3                                 | 12.7                 |
| 2440.500                                               | -50.63                 | -0.3                                 | 12.7                 |
| 2440.55                                                | -50.63                 | -0.3                                 | 12.7                 |
| 2440.60                                                | -50.63                 | -0.3                                 | 12.7                 |
| 2440.65                                                | -50.96                 | -0.7                                 | 12.3                 |
| 2440.70                                                | -51.13                 | -0.8                                 | 12.2                 |
| 2440.75                                                | -51.13                 | -0.8                                 | 12.2                 |
| 2440.80                                                | -51.13                 | -0.8                                 | 12.2                 |
| 2440.85                                                | -51.63                 | -1.3                                 | 11.7                 |

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|         |        |      |      |
|---------|--------|------|------|
| 2440.90 | -51.46 | -1.2 | 11.8 |
| 2440.95 | -51.63 | -1.3 | 11.7 |
| 2441.00 | -51.63 | -1.3 | 11.7 |
| 2441.05 | -51.46 | -1.2 | 11.8 |
| 2441.10 | -50.63 | -0.3 | 12.7 |
| 2441.15 | -49.63 | 0.7  | 13.7 |
| 2441.20 | -47.96 | 2.3  | 15.3 |
| 2441.25 | -46.46 | 3.8  | 16.8 |
| 2441.30 | -44.30 | 6.0  | 19.0 |
| 2441.35 | -42.63 | 7.7  | 20.7 |
| 2441.40 | -40.80 | 9.5  | 22.5 |
| 2441.45 | -39.13 | 11.2 | 24.2 |
| 2441.50 | -37.46 | 12.8 | 25.8 |
| 2441.55 | -35.96 | 14.3 | 27.3 |
| 2441.60 | -34.46 | 15.8 | 28.8 |
| 2441.65 | -33.13 | 17.2 | 30.2 |
| 2441.70 | -32.13 | 18.2 | 31.2 |
| 2441.75 | -31.30 | 19.0 | 32.0 |
| 2441.80 | -30.30 | 20.0 | 33.0 |
| 2441.85 | -29.13 | 21.2 | 34.2 |
| 2441.90 | -28.46 | 21.8 | 34.8 |
| 2441.95 | -27.80 | 22.5 | 35.5 |
| 2442.00 | -27.13 | 23.2 | 36.2 |

|  |                             |
|--|-----------------------------|
|  | = Minimum Processing Gain   |
|  | = measured center frequency |

**Test Setup: Device under test = slave mode, transmitter = master mode**

**IC used:**

LXT820B2 Tesla

FPGA basied BMC: EPF10K100ARC240-2

Code Date: 12/9/99, 11:48 am. (Meelan rev1)

**Control Board:**

REV 10B

Serial number: 03

MCU date code: 11/22/99

**RF Board:**

LXT820 DV REV 2A

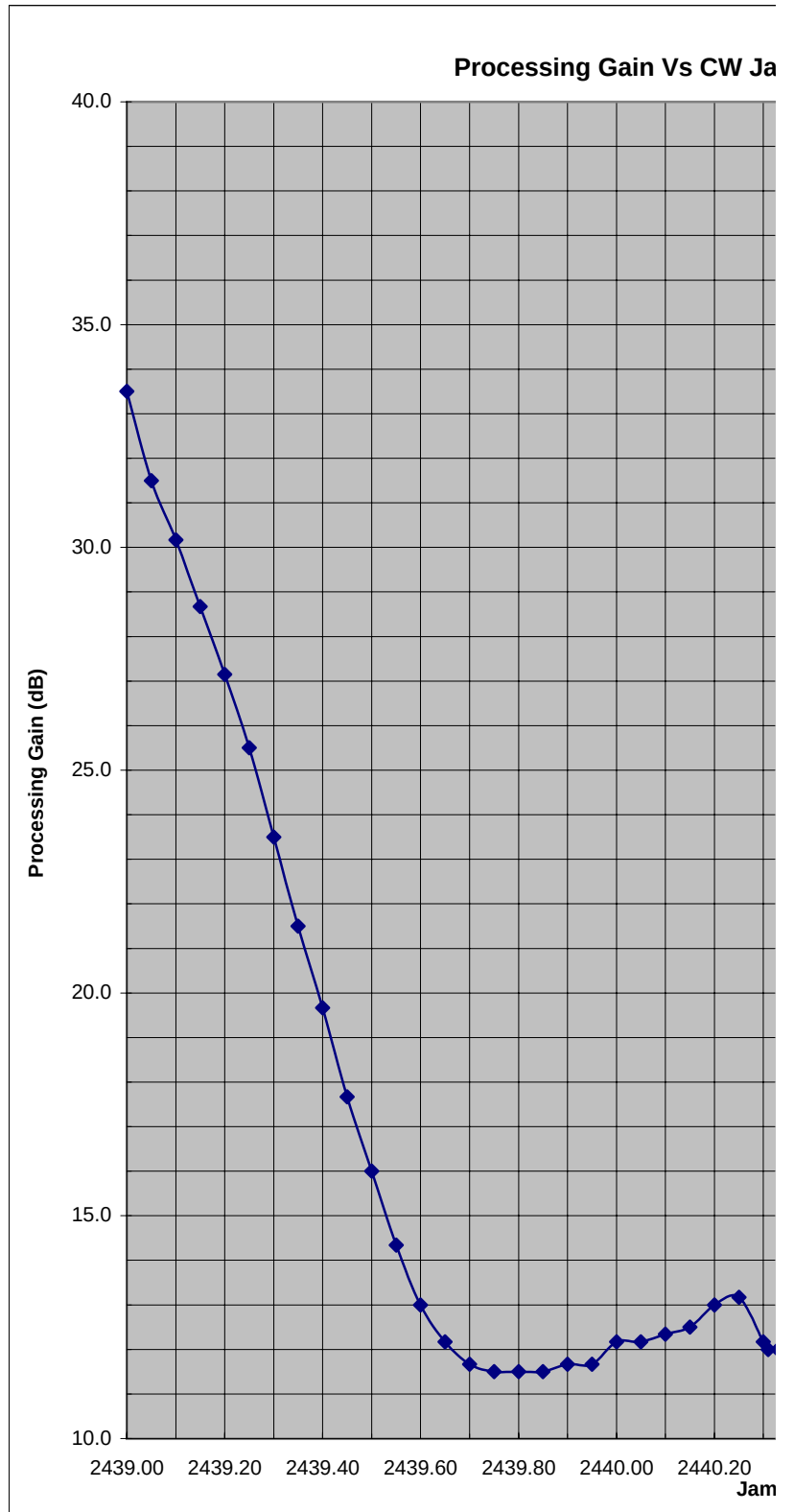
serial number: 03

**24.0 MHz Clock Frequency :**

Device under test: 23.998646 MHz (-56.4 ppm)

Transmitter: 23.998936 MHz (-44.3 ppm)

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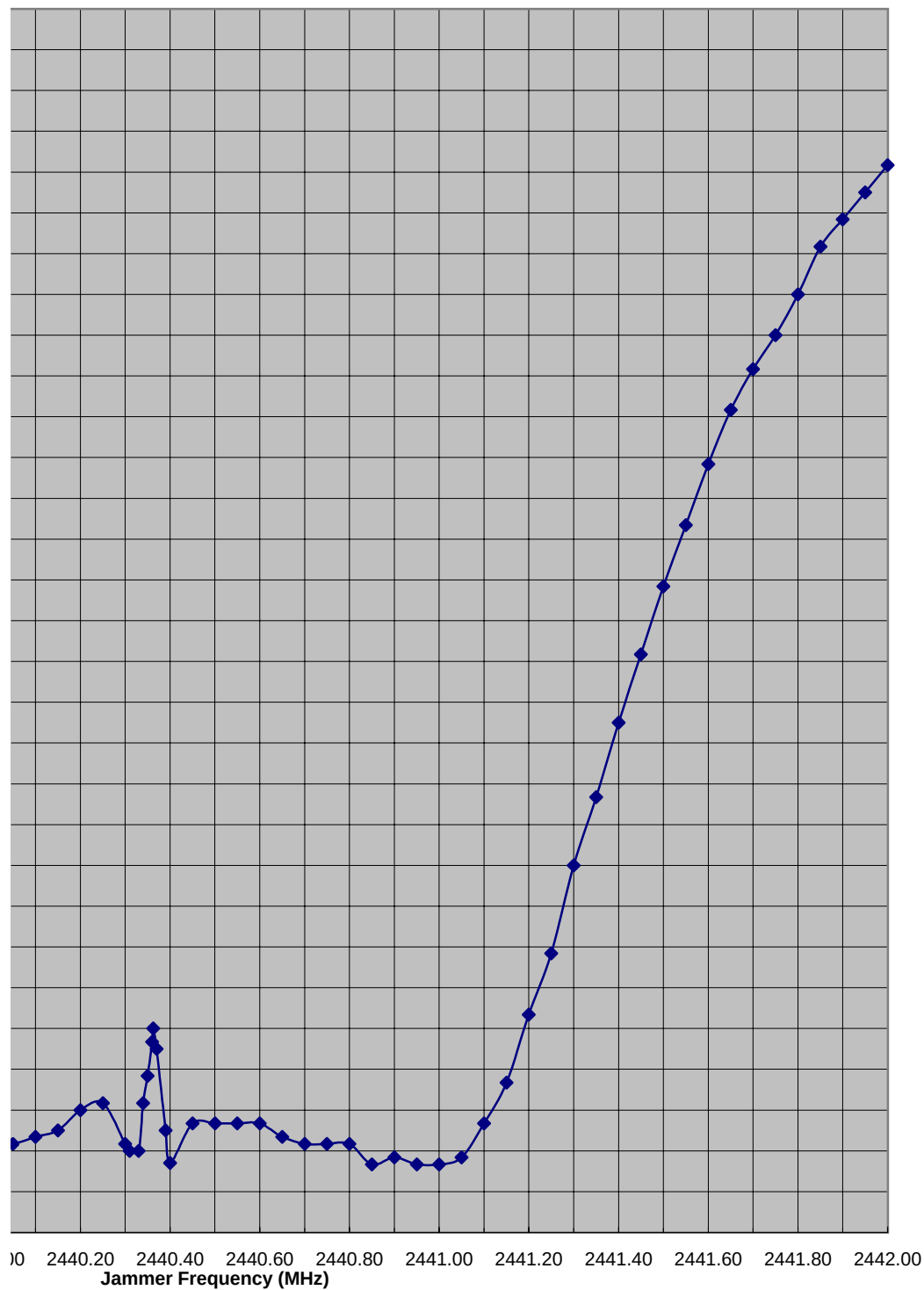


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n Vs CW Jammer Frequency: Alpine test Fixture

Processing Gain (dB)



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