# EXHIBIT 4
## PROCESS GAIN TEST DATA

**Process Gain Test Procedure**

1) Set up process gain test fixture as shown in figure 1.

2) Turn off Signal Generator RF output. Turn on both RadioWire Modems (RWMs).

3) Measure power with Power Meter at port 2 of the RF Splitter.

4) Turn off RWMs and turn on Signal Generator RF output.

5) Set the Signal Generator frequency to match the center frequency of the RWM. Adjust the RF output of the Signal Generator to match the RF output of the RWM.

6) Set the attenuator readout of the Signal Generator to indicate a relative output of 0 dB. In this mode, the Signal Generator will display the Jammer level relative to the RWM signal level. If the Jammer level is 2 dB less than the RWM, -2 dB will be displayed on the Signal Generator.

7) Turn off the Signal Generator RF output. Turn on the RWMs and allow for synchronization.

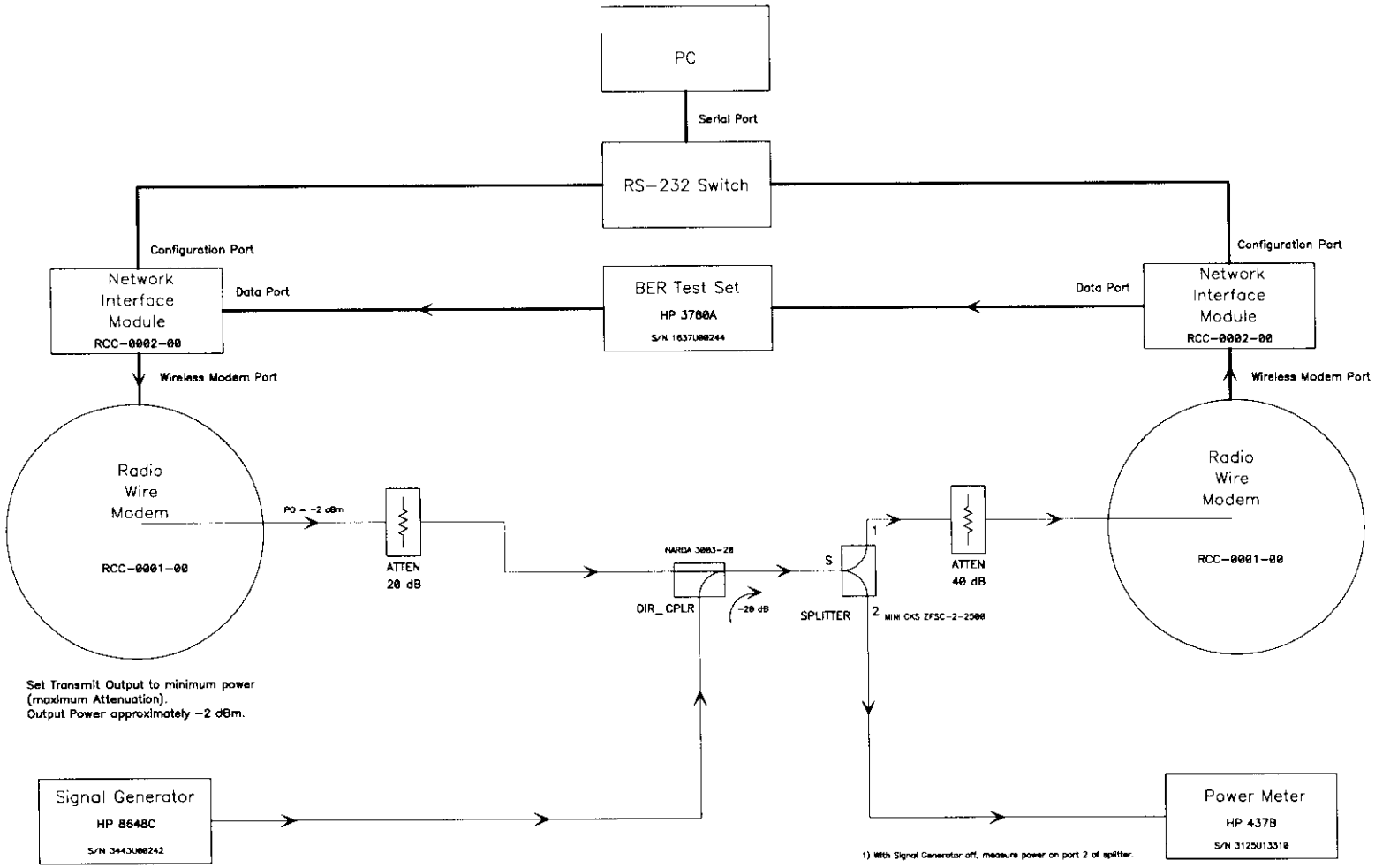
8) Set Signal Generator RF output to -10 dB and slowly increase the jamming level until a bit error rate of $0.1 * 10^{-5}$ is displayed. This corresponds to an error rate of $1 * 10^{-6}$.

9) Log the frequency jammer level relative to the RWM level.

10) Increment the frequency of the Signal Generator by 50 kHz. Continue with steps 8 - 10 until the entire passband is logged.

# FCC ID: NFX-RCC0001-00

## Process Gain Test Setup




1) With Signal Generator off, measure power on port 2 of splitter.

2) With RadioWire Modems off, adjust signal generator output to match RadioWire power on port 2 of splitter.

3) The previously set signal generator level is the 6 dB differential level between the RWM and signal generator.

**RadioConnect Corporation**
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| | | |
|---|---|---|
| Title: Block Diagram, Process Gain Test Fixture | | |
| Size: C | Number: | Rev: 0.1 |
| Date: 7/7/98 | | Drawn by: AJT |
| Filename: GAINTST.SCH | | Sheet: 1 of 1 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 1 | 2438.35 | -4 | 11.8 |
| 2 | 2438.40 | -4 | 11.8 |
| 3 | 2438.45 | -4 | 11.8 |
| 4 | 2439.10 | -4 | 11.8 |
| 5 | 2439.15 | -4 | 11.8 |
| 6 | 2439.20 | -4 | 11.8 |
| 7 | 2439.25 | -4 | 11.8 |
| 8 | 2439.30 | -4 | 11.8 |
| 9 | 2439.35 | -4 | 11.8 |
| 10 | 2439.40 | -4 | 11.8 |
| 11 | 2439.50 | -4 | 11.8 |
| 12 | 2439.55 | -4 | 11.8 |
| 13 | 2439.60 | -4 | 11.8 |
| 14 | 2439.65 | -4 | 11.8 |
| 15 | 2439.70 | -4 | 11.8 |
| 16 | 2436.45 | -3 | 12.8 |
| 17 | 2436.50 | -3 | 12.8 |
| 18 | 2436.55 | -3 | 12.8 |
| 19 | 2436.60 | -3 | 12.8 |
| 20 | 2436.65 | -3 | 12.8 |
| 21 | 2436.70 | -3 | 12.8 |
| 22 | 2436.75 | -3 | 12.8 |
| 23 | 2436.80 | -3 | 12.8 |
| 24 | 2436.85 | -3 | 12.8 |
| 25 | 2436.90 | -3 | 12.8 |
| 26 | 2436.95 | -3 | 12.8 |
| 27 | 2437.00 | -3 | 12.8 |
| 28 | 2437.05 | -3 | 12.8 |
| 29 | 2437.10 | -3 | 12.8 |
| 30 | 2437.15 | -3 | 12.8 |
| 31 | 2437.20 | -3 | 12.8 |
| 32 | 2437.25 | -3 | 12.8 |
| 33 | 2437.30 | -3 | 12.8 |
| 34 | 2437.35 | -3 | 12.8 |
| 35 | 2437.40 | -3 | 12.8 |
| 36 | 2437.45 | -3 | 12.8 |
| 37 | 2437.50 | -3 | 12.8 |
| 38 | 2437.55 | -3 | 12.8 |
| 39 | 2437.60 | -3 | 12.8 |
| 40 | 2437.65 | -3 | 12.8 |
| 41 | 2437.70 | -3 | 12.8 |
| 42 | 2437.75 | -3 | 12.8 |
| 43 | 2437.80 | -3 | 12.8 |
| 44 | 2437.85 | -3 | 12.8 |
| 45 | 2437.90 | -3 | 12.8 |
| 46 | 2437.95 | -3 | 12.8 |
| 47 | 2438.00 | -3 | 12.8 |
| 48 | 2438.05 | -3 | 12.8 |
| 49 | 2438.10 | -3 | 12.8 |
| 50 | 2438.15 | -3 | 12.8 |
| 51 | 2438.20 | -3 | 12.8 |
| 52 | 2438.25 | -3 | 12.8 |

Mj J/S Ratio = Signal Gen (dBm) - RWM (dBm)

Proc. Gain = Mj J/S + Sys Loss + (S/N)o
Sys Loss = 2 dB
(S/N)o = 13.8 dB

Total # of Samples 501
20% of Samples 100
Proc Gain @ #101 12.8 dB

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 53 | 2438.30 | -3 | 12.8 |
| 54 | 2438.50 | -3 | 12.8 |
| 55 | 2438.55 | -3 | 12.8 |
| 56 | 2438.60 | -3 | 12.8 |
| 57 | 2438.65 | -3 | 12.8 |
| 58 | 2438.70 | -3 | 12.8 |
| 59 | 2438.75 | -3 | 12.8 |
| 60 | 2438.80 | -3 | 12.8 |
| 61 | 2438.85 | -3 | 12.8 |
| 62 | 2438.90 | -3 | 12.8 |
| 63 | 2438.95 | -3 | 12.8 |
| 64 | 2439.00 | -3 | 12.8 |
| 65 | 2439.05 | -3 | 12.8 |
| 66 | 2439.45 | -3 | 12.8 |
| 67 | 2439.75 | -3 | 12.8 |
| 68 | 2439.80 | -3 | 12.8 |
| 69 | 2439.85 | -3 | 12.8 |
| 70 | 2439.90 | -3 | 12.8 |
| 71 | 2439.95 | -3 | 12.8 |
| 72 | 2440.00 | -3 | 12.8 |
| 73 | 2440.05 | -3 | 12.8 |
| 74 | 2440.10 | -3 | 12.8 |
| 75 | 2440.15 | -3 | 12.8 |
| 76 | 2440.20 | -3 | 12.8 |
| 77 | 2440.40 | -3 | 12.8 |
| 78 | 2440.45 | -3 | 12.8 |
| 79 | 2440.85 | -3 | 12.8 |
| 80 | 2440.95 | -3 | 12.8 |
| 81 | 2443.40 | -3 | 12.8 |
| 82 | 2443.50 | -3 | 12.8 |
| 83 | 2443.85 | -3 | 12.8 |
| 84 | 2443.90 | -3 | 12.8 |
| 85 | 2443.95 | -3 | 12.8 |
| 86 | 2444.00 | -3 | 12.8 |
| 87 | 2444.10 | -3 | 12.8 |
| 88 | 2444.15 | -3 | 12.8 |
| 89 | 2444.30 | -3 | 12.8 |
| 90 | 2444.35 | -3 | 12.8 |
| 91 | 2444.40 | -3 | 12.8 |
| 92 | 2444.45 | -3 | 12.8 |
| 93 | 2444.65 | -3 | 12.8 |
| 94 | 2444.70 | -3 | 12.8 |
| 95 | 2444.85 | -3 | 12.8 |
| 96 | 2444.90 | -3 | 12.8 |
| 97 | 2444.95 | -3 | 12.8 |
| 98 | 2445.00 | -3 | 12.8 |
| 99 | 2445.05 | -3 | 12.8 |
| 100 | 2445.10 | -3 | 12.8 |
| 101 | 2445.15 | -3 | 12.8 |
| 102 | 2445.20 | -3 | 12.8 |
| 103 | 2445.25 | -3 | 12.8 |
| 104 | 2445.30 | -3 | 12.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 105 | 2445.35 | -3 | 12.8 |
| 106 | 2445.45 | -3 | 12.8 |
| 107 | 2445.50 | -3 | 12.8 |
| 108 | 2445.75 | -3 | 12.8 |
| 109 | 2445.80 | -3 | 12.8 |
| 110 | 2445.85 | -3 | 12.8 |
| 111 | 2446.00 | -3 | 12.8 |
| 112 | 2446.05 | -3 | 12.8 |
| 113 | 2446.10 | -3 | 12.8 |
| 114 | 2446.15 | -3 | 12.8 |
| 115 | 2446.20 | -3 | 12.8 |
| 116 | 2446.30 | -3 | 12.8 |
| 117 | 2446.35 | -3 | 12.8 |
| 118 | 2446.40 | -3 | 12.8 |
| 119 | 2446.70 | -3 | 12.8 |
| 120 | 2446.75 | -3 | 12.8 |
| 121 | 2446.80 | -3 | 12.8 |
| 122 | 2442.90 | -2.5 | 13.3 |
| 123 | 2434.50 | -2 | 13.8 |
| 124 | 2434.55 | -2 | 13.8 |
| 125 | 2434.60 | -2 | 13.8 |
| 126 | 2434.65 | -2 | 13.8 |
| 127 | 2434.70 | -2 | 13.8 |
| 128 | 2434.90 | -2 | 13.8 |
| 129 | 2434.95 | -2 | 13.8 |
| 130 | 2435.40 | -2 | 13.8 |
| 131 | 2435.45 | -2 | 13.8 |
| 132 | 2435.50 | -2 | 13.8 |
| 133 | 2435.55 | -2 | 13.8 |
| 134 | 2435.60 | -2 | 13.8 |
| 135 | 2435.80 | -2 | 13.8 |
| 136 | 2435.85 | -2 | 13.8 |
| 137 | 2435.90 | -2 | 13.8 |
| 138 | 2435.95 | -2 | 13.8 |
| 139 | 2436.00 | -2 | 13.8 |
| 140 | 2436.05 | -2 | 13.8 |
| 141 | 2436.10 | -2 | 13.8 |
| 142 | 2436.15 | -2 | 13.8 |
| 143 | 2436.20 | -2 | 13.8 |
| 144 | 2436.25 | -2 | 13.8 |
| 145 | 2436.30 | -2 | 13.8 |
| 146 | 2436.35 | -2 | 13.8 |
| 147 | 2436.40 | -2 | 13.8 |
| 148 | 2440.25 | -2 | 13.8 |
| 149 | 2440.30 | -2 | 13.8 |
| 150 | 2440.35 | -2 | 13.8 |
| 151 | 2440.50 | -2 | 13.8 |
| 152 | 2440.55 | -2 | 13.8 |
| 153 | 2440.60 | -2 | 13.8 |
| 154 | 2440.65 | -2 | 13.8 |
| 155 | 2440.70 | -2 | 13.8 |
| 156 | 2440.75 | -2 | 13.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 157 | 2440.80 | -2 | 13.8 |
| 158 | 2440.90 | -2 | 13.8 |
| 159 | 2441.00 | -2 | 13.8 |
| 160 | 2441.05 | -2 | 13.8 |
| 161 | 2441.10 | -2 | 13.8 |
| 162 | 2441.15 | -2 | 13.8 |
| 163 | 2441.25 | -2 | 13.8 |
| 164 | 2441.30 | -2 | 13.8 |
| 165 | 2441.35 | -2 | 13.8 |
| 166 | 2442.30 | -2 | 13.8 |
| 167 | 2442.40 | -2 | 13.8 |
| 168 | 2442.50 | -2 | 13.8 |
| 169 | 2442.55 | -2 | 13.8 |
| 170 | 2442.60 | -2 | 13.8 |
| 171 | 2442.85 | -2 | 13.8 |
| 172 | 2442.95 | -2 | 13.8 |
| 173 | 2443.00 | -2 | 13.8 |
| 174 | 2443.05 | -2 | 13.8 |
| 175 | 2443.10 | -2 | 13.8 |
| 176 | 2443.15 | -2 | 13.8 |
| 177 | 2443.20 | -2 | 13.8 |
| 178 | 2443.25 | -2 | 13.8 |
| 179 | 2443.30 | -2 | 13.8 |
| 180 | 2443.35 | -2 | 13.8 |
| 181 | 2443.45 | -2 | 13.8 |
| 182 | 2443.55 | -2 | 13.8 |
| 183 | 2443.60 | -2 | 13.8 |
| 184 | 2443.65 | -2 | 13.8 |
| 185 | 2443.70 | -2 | 13.8 |
| 186 | 2443.75 | -2 | 13.8 |
| 187 | 2443.80 | -2 | 13.8 |
| 188 | 2444.05 | -2 | 13.8 |
| 189 | 2444.20 | -2 | 13.8 |
| 190 | 2444.25 | -2 | 13.8 |
| 191 | 2444.50 | -2 | 13.8 |
| 192 | 2444.60 | -2 | 13.8 |
| 193 | 2444.75 | -2 | 13.8 |
| 194 | 2444.80 | -2 | 13.8 |
| 195 | 2445.40 | -2 | 13.8 |
| 196 | 2445.55 | -2 | 13.8 |
| 197 | 2445.60 | -2 | 13.8 |
| 198 | 2445.65 | -2 | 13.8 |
| 199 | 2445.70 | -2 | 13.8 |
| 200 | 2445.90 | -2 | 13.8 |
| 201 | 2445.95 | -2 | 13.8 |
| 202 | 2446.25 | -2 | 13.8 |
| 203 | 2446.45 | -2 | 13.8 |
| 204 | 2446.50 | -2 | 13.8 |
| 205 | 2446.55 | -2 | 13.8 |
| 206 | 2446.60 | -2 | 13.8 |
| 207 | 2446.65 | -2 | 13.8 |
| 208 | 2446.85 | -2 | 13.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 209 | 2446.90 | -2 | 13.8 |
| 210 | 2446.95 | -2 | 13.8 |
| 211 | 2447.00 | -2 | 13.8 |
| 212 | 2447.05 | -2 | 13.8 |
| 213 | 2447.10 | -2 | 13.8 |
| 214 | 2447.15 | -2 | 13.8 |
| 215 | 2447.20 | -2 | 13.8 |
| 216 | 2447.55 | -2 | 13.8 |
| 217 | 2447.60 | -2 | 13.8 |
| 218 | 2434.25 | -1 | 14.8 |
| 219 | 2434.30 | -1 | 14.8 |
| 220 | 2434.35 | -1 | 14.8 |
| 221 | 2434.40 | -1 | 14.8 |
| 222 | 2434.45 | -1 | 14.8 |
| 223 | 2434.75 | -1 | 14.8 |
| 224 | 2434.80 | -1 | 14.8 |
| 225 | 2434.85 | -1 | 14.8 |
| 226 | 2435.00 | -1 | 14.8 |
| 227 | 2435.05 | -1 | 14.8 |
| 228 | 2435.10 | -1 | 14.8 |
| 229 | 2435.15 | -1 | 14.8 |
| 230 | 2435.20 | -1 | 14.8 |
| 231 | 2435.25 | -1 | 14.8 |
| 232 | 2435.30 | -1 | 14.8 |
| 233 | 2435.35 | -1 | 14.8 |
| 234 | 2435.65 | -1 | 14.8 |
| 235 | 2435.70 | -1 | 14.8 |
| 236 | 2435.75 | -1 | 14.8 |
| 237 | 2441.20 | -1 | 14.8 |
| 238 | 2441.40 | -1 | 14.8 |
| 239 | 2441.45 | -1 | 14.8 |
| 240 | 2441.50 | -1 | 14.8 |
| 241 | 2441.55 | -1 | 14.8 |
| 242 | 2441.60 | -1 | 14.8 |
| 243 | 2441.65 | -1 | 14.8 |
| 244 | 2441.70 | -1 | 14.8 |
| 245 | 2441.75 | -1 | 14.8 |
| 246 | 2441.80 | -1 | 14.8 |
| 247 | 2441.85 | -1 | 14.8 |
| 248 | 2441.90 | -1 | 14.8 |
| 249 | 2442.00 | -1 | 14.8 |
| 250 | 2442.05 | -1 | 14.8 |
| 251 | 2442.10 | -1 | 14.8 |
| 252 | 2442.15 | -1 | 14.8 |
| 253 | 2442.20 | -1 | 14.8 |
| 254 | 2442.25 | -1 | 14.8 |
| 255 | 2442.35 | -1 | 14.8 |
| 256 | 2442.45 | -1 | 14.8 |
| 257 | 2442.65 | -1 | 14.8 |
| 258 | 2442.70 | -1 | 14.8 |
| 259 | 2442.75 | -1 | 14.8 |
| 260 | 2442.80 | -1 | 14.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 261 | 2444.55 | -1 | 14.8 |
| 262 | 2447.25 | -1 | 14.8 |
| 263 | 2447.30 | -1 | 14.8 |
| 264 | 2447.35 | -1 | 14.8 |
| 265 | 2447.40 | -1 | 14.8 |
| 266 | 2447.45 | -1 | 14.8 |
| 267 | 2447.50 | -1 | 14.8 |
| 268 | 2447.65 | -1 | 14.8 |
| 269 | 2447.70 | -1 | 14.8 |
| 270 | 2447.75 | -1 | 14.8 |
| 271 | 2433.50 | 0 | 15.8 |
| 272 | 2433.55 | 0 | 15.8 |
| 273 | 2433.60 | 0 | 15.8 |
| 274 | 2433.65 | 0 | 15.8 |
| 275 | 2433.70 | 0 | 15.8 |
| 276 | 2433.75 | 0 | 15.8 |
| 277 | 2433.80 | 0 | 15.8 |
| 278 | 2433.85 | 0 | 15.8 |
| 279 | 2433.90 | 0 | 15.8 |
| 280 | 2433.95 | 0 | 15.8 |
| 281 | 2434.00 | 0 | 15.8 |
| 282 | 2434.05 | 0 | 15.8 |
| 283 | 2434.10 | 0 | 15.8 |
| 284 | 2434.15 | 0 | 15.8 |
| 285 | 2434.20 | 0 | 15.8 |
| 286 | 2441.95 | 0 | 15.8 |
| 287 | 2447.80 | 0 | 15.8 |
| 288 | 2447.85 | 0 | 15.8 |
| 289 | 2447.90 | 0 | 15.8 |
| 290 | 2447.95 | 0 | 15.8 |
| 291 | 2448.00 | 0 | 15.8 |
| 292 | 2448.05 | 0 | 15.8 |
| 293 | 2448.10 | 0 | 15.8 |
| 294 | 2448.15 | 0 | 15.8 |
| 295 | 2448.20 | 0 | 15.8 |
| 296 | 2448.25 | 0 | 15.8 |
| 297 | 2448.30 | 0 | 15.8 |
| 298 | 2448.35 | 0 | 15.8 |
| 299 | 2448.45 | 0 | 15.8 |
| 300 | 2448.50 | 0 | 15.8 |
| 301 | 2432.95 | 1 | 16.8 |
| 302 | 2433.00 | 1 | 16.8 |
| 303 | 2433.05 | 1 | 16.8 |
| 304 | 2433.10 | 1 | 16.8 |
| 305 | 2433.20 | 1 | 16.8 |
| 306 | 2433.25 | 1 | 16.8 |
| 307 | 2433.30 | 1 | 16.8 |
| 308 | 2433.35 | 1 | 16.8 |
| 309 | 2433.40 | 1 | 16.8 |
| 310 | 2433.45 | 1 | 16.8 |
| 311 | 2448.40 | 1 | 16.8 |
| 312 | 2448.55 | 1 | 16.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 313 | 2448.60 | 1 | 16.8 |
| 314 | 2448.65 | 1 | 16.8 |
| 315 | 2448.70 | 1 | 16.8 |
| 316 | 2448.80 | 1 | 16.8 |
| 317 | 2431.95 | 2 | 17.8 |
| 318 | 2432.00 | 2 | 17.8 |
| 319 | 2432.05 | 2 | 17.8 |
| 320 | 2432.10 | 2 | 17.8 |
| 321 | 2432.15 | 2 | 17.8 |
| 322 | 2432.20 | 2 | 17.8 |
| 323 | 2432.25 | 2 | 17.8 |
| 324 | 2432.30 | 2 | 17.8 |
| 325 | 2432.50 | 2 | 17.8 |
| 326 | 2432.55 | 2 | 17.8 |
| 327 | 2432.60 | 2 | 17.8 |
| 328 | 2432.65 | 2 | 17.8 |
| 329 | 2432.75 | 2 | 17.8 |
| 330 | 2432.80 | 2 | 17.8 |
| 331 | 2432.85 | 2 | 17.8 |
| 332 | 2432.90 | 2 | 17.8 |
| 333 | 2433.15 | 2 | 17.8 |
| 334 | 2448.75 | 2 | 17.8 |
| 335 | 2448.85 | 2 | 17.8 |
| 336 | 2448.90 | 2 | 17.8 |
| 337 | 2448.95 | 2 | 17.8 |
| 338 | 2449.00 | 2 | 17.8 |
| 339 | 2449.05 | 2 | 17.8 |
| 340 | 2431.80 | 3 | 18.8 |
| 341 | 2431.85 | 3 | 18.8 |
| 342 | 2431.90 | 3 | 18.8 |
| 343 | 2432.35 | 3 | 18.8 |
| 344 | 2432.40 | 3 | 18.8 |
| 345 | 2432.45 | 3 | 18.8 |
| 346 | 2432.70 | 3 | 18.8 |
| 347 | 2449.10 | 3 | 18.8 |
| 348 | 2449.15 | 3 | 18.8 |
| 349 | 2449.20 | 3 | 18.8 |
| 350 | 2449.25 | 3 | 18.8 |
| 351 | 2449.35 | 3 | 18.8 |
| 352 | 2449.40 | 3 | 18.8 |
| 353 | 2431.70 | 4 | 19.8 |
| 354 | 2431.75 | 4 | 19.8 |
| 355 | 2449.30 | 4 | 19.8 |
| 356 | 2449.45 | 4 | 19.8 |
| 357 | 2449.50 | 4 | 19.8 |
| 358 | 2449.55 | 4 | 19.8 |
| 359 | 2449.60 | 4 | 19.8 |
| 360 | 2449.65 | 4 | 19.8 |
| 361 | 2449.70 | 4 | 19.8 |
| 362 | 2449.75 | 4 | 19.8 |
| 363 | 2449.80 | 4 | 19.8 |
| 364 | 2449.85 | 4 | 19.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 365 | 2449.90 | 4 | 19.8 |
| 366 | 2449.95 | 4 | 19.8 |
| 367 | 2430.40 | 5 | 20.8 |
| 368 | 2430.45 | 5 | 20.8 |
| 369 | 2430.50 | 5 | 20.8 |
| 370 | 2430.60 | 5 | 20.8 |
| 371 | 2430.65 | 5 | 20.8 |
| 372 | 2430.70 | 5 | 20.8 |
| 373 | 2430.75 | 5 | 20.8 |
| 374 | 2430.80 | 5 | 20.8 |
| 375 | 2430.85 | 5 | 20.8 |
| 376 | 2430.90 | 5 | 20.8 |
| 377 | 2430.95 | 5 | 20.8 |
| 378 | 2431.15 | 5 | 20.8 |
| 379 | 2431.20 | 5 | 20.8 |
| 380 | 2431.25 | 5 | 20.8 |
| 381 | 2431.30 | 5 | 20.8 |
| 382 | 2431.35 | 5 | 20.8 |
| 383 | 2431.40 | 5 | 20.8 |
| 384 | 2431.45 | 5 | 20.8 |
| 385 | 2431.50 | 5 | 20.8 |
| 386 | 2431.60 | 5 | 20.8 |
| 387 | 2431.65 | 5 | 20.8 |
| 388 | 2450.00 | 5 | 20.8 |
| 389 | 2450.10 | 5 | 20.8 |
| 390 | 2450.15 | 5 | 20.8 |
| 391 | 2450.20 | 5 | 20.8 |
| 392 | 2450.25 | 5 | 20.8 |
| 393 | 2450.30 | 5 | 20.8 |
| 394 | 2450.35 | 5 | 20.8 |
| 395 | 2450.40 | 5 | 20.8 |
| 396 | 2429.95 | 6 | 21.8 |
| 397 | 2430.00 | 6 | 21.8 |
| 398 | 2430.05 | 6 | 21.8 |
| 399 | 2430.10 | 6 | 21.8 |
| 400 | 2430.15 | 6 | 21.8 |
| 401 | 2430.20 | 6 | 21.8 |
| 402 | 2430.25 | 6 | 21.8 |
| 403 | 2430.30 | 6 | 21.8 |
| 404 | 2430.35 | 6 | 21.8 |
| 405 | 2430.55 | 6 | 21.8 |
| 406 | 2431.00 | 6 | 21.8 |
| 407 | 2431.05 | 6 | 21.8 |
| 408 | 2431.10 | 6 | 21.8 |
| 409 | 2431.55 | 6 | 21.8 |
| 410 | 2450.05 | 6 | 21.8 |
| 411 | 2450.45 | 6 | 21.8 |
| 412 | 2429.90 | 7 | 22.8 |
| 413 | 2450.50 | 7 | 22.8 |
| 414 | 2450.55 | 7 | 22.8 |
| 415 | 2450.65 | 7 | 22.8 |
| 416 | 2450.70 | 7 | 22.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 417 | 2429.65 | 8 | 23.8 |
| 418 | 2429.70 | 8 | 23.8 |
| 419 | 2429.75 | 8 | 23.8 |
| 420 | 2429.80 | 8 | 23.8 |
| 421 | 2429.85 | 8 | 23.8 |
| 422 | 2450.60 | 8 | 23.8 |
| 423 | 2450.75 | 8 | 23.8 |
| 424 | 2450.80 | 8 | 23.8 |
| 425 | 2450.85 | 8 | 23.8 |
| 426 | 2450.90 | 8 | 23.8 |
| 427 | 2429.00 | 9 | 24.8 |
| 428 | 2429.05 | 9 | 24.8 |
| 429 | 2429.10 | 9 | 24.8 |
| 430 | 2429.15 | 9 | 24.8 |
| 431 | 2429.20 | 9 | 24.8 |
| 432 | 2429.25 | 9 | 24.8 |
| 433 | 2429.30 | 9 | 24.8 |
| 434 | 2429.35 | 9 | 24.8 |
| 435 | 2429.40 | 9 | 24.8 |
| 436 | 2429.45 | 9 | 24.8 |
| 437 | 2429.50 | 9 | 24.8 |
| 438 | 2429.55 | 9 | 24.8 |
| 439 | 2429.60 | 9 | 24.8 |
| 440 | 2450.95 | 9 | 24.8 |
| 441 | 2451.00 | 9 | 24.8 |
| 442 | 2451.05 | 9 | 24.8 |
| 443 | 2451.10 | 9 | 24.8 |
| 444 | 2451.20 | 9 | 24.8 |
| 445 | 2451.25 | 9 | 24.8 |
| 446 | 2451.30 | 9 | 24.8 |
| 447 | 2451.40 | 9 | 24.8 |
| 448 | 2428.70 | 10 | 25.8 |
| 449 | 2428.75 | 10 | 25.8 |
| 450 | 2428.80 | 10 | 25.8 |
| 451 | 2428.85 | 10 | 25.8 |
| 452 | 2428.90 | 10 | 25.8 |
| 453 | 2428.95 | 10 | 25.8 |
| 454 | 2451.15 | 10 | 25.8 |
| 455 | 2451.35 | 10 | 25.8 |
| 456 | 2451.45 | 10 | 25.8 |
| 457 | 2451.50 | 10 | 25.8 |
| 458 | 2451.55 | 11 | 26.8 |
| 459 | 2451.60 | 11 | 26.8 |
| 460 | 2451.65 | 11 | 26.8 |
| 461 | 2451.70 | 11 | 26.8 |
| 462 | 2451.75 | 11 | 26.8 |
| 463 | 2451.80 | 11 | 26.8 |
| 464 | 2451.85 | 12 | 27.8 |
| 465 | 2451.90 | 12 | 27.8 |
| 466 | 2451.95 | 12 | 27.8 |
| 467 | 2452.00 | 12 | 27.8 |
| 468 | 2452.05 | 13 | 28.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 469 | 2452.10 | 13 | 28.8 |
| 470 | 2452.15 | 13 | 28.8 |
| 471 | 2452.20 | 13 | 28.8 |
| 472 | 2452.25 | 13 | 28.8 |
| 473 | 2452.30 | 14 | 29.8 |
| 474 | 2452.35 | 14 | 29.8 |
| 475 | 2452.40 | 15 | 30.8 |
| 476 | 2452.45 | 15 | 30.8 |
| 477 | 2452.50 | 15 | 30.8 |
| 478 | 2452.55 | 16 | 31.8 |
| 479 | 2452.60 | 16 | 31.8 |
| 480 | 2452.65 | 16 | 31.8 |
| 481 | 2452.70 | 16 | 31.8 |
| 482 | 2452.75 | 16 | 31.8 |
| 483 | 2452.80 | 17 | 32.8 |
| 484 | 2452.85 | 17 | 32.8 |
| 485 | 2452.90 | 17 | 32.8 |
| 486 | 2452.95 | 17 | 32.8 |
| 487 | 2453.00 | 18 | 33.8 |
| 488 | 2453.05 | 18 | 33.8 |
| 489 | 2453.10 | 18 | 33.8 |
| 490 | 2453.15 | 18 | 33.8 |
| 491 | 2453.20 | 19 | 34.8 |
| 492 | 2453.25 | 20 | 35.8 |
| 493 | 2453.30 | 20 | 35.8 |
| 494 | 2453.35 | 20 | 35.8 |
| 495 | 2453.40 | 20 | 35.8 |
| 496 | 2453.45 | 21 | 36.8 |
| 497 | 2453.50 | 21 | 36.8 |
| 498 | 2453.55 | 21 | 36.8 |
| 499 | 2453.60 | 21 | 36.8 |
| 500 | 2453.65 | 22 | 37.8 |
| 501 | 2453.70 | 23 | 38.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 1 | 2428.70 | 10 | 25.8 |
| 2 | 2428.75 | 10 | 25.8 |
| 3 | 2428.80 | 10 | 25.8 |
| 4 | 2428.85 | 10 | 25.8 |
| 5 | 2428.90 | 10 | 25.8 |
| 6 | 2428.95 | 10 | 25.8 |
| 7 | 2429.00 | 9 | 24.8 |
| 8 | 2429.05 | 9 | 24.8 |
| 9 | 2429.10 | 9 | 24.8 |
| 10 | 2429.15 | 9 | 24.8 |
| 11 | 2429.20 | 9 | 24.8 |
| 12 | 2429.25 | 9 | 24.8 |
| 13 | 2429.30 | 9 | 24.8 |
| 14 | 2429.35 | 9 | 24.8 |
| 15 | 2429.40 | 9 | 24.8 |
| 16 | 2429.45 | 9 | 24.8 |
| 17 | 2429.50 | 9 | 24.8 |
| 18 | 2429.55 | 9 | 24.8 |
| 19 | 2429.60 | 9 | 24.8 |
| 20 | 2429.65 | 8 | 23.8 |
| 21 | 2429.70 | 8 | 23.8 |
| 22 | 2429.75 | 8 | 23.8 |
| 23 | 2429.80 | 8 | 23.8 |
| 24 | 2429.85 | 8 | 23.8 |
| 25 | 2429.90 | 7 | 22.8 |
| 26 | 2429.95 | 6 | 21.8 |
| 27 | 2430.00 | 6 | 21.8 |
| 28 | 2430.05 | 6 | 21.8 |
| 29 | 2430.10 | 6 | 21.8 |
| 30 | 2430.15 | 6 | 21.8 |
| 31 | 2430.20 | 6 | 21.8 |
| 32 | 2430.25 | 6 | 21.8 |
| 33 | 2430.30 | 6 | 21.8 |
| 34 | 2430.35 | 6 | 21.8 |
| 35 | 2430.40 | 5 | 20.8 |
| 36 | 2430.45 | 5 | 20.8 |
| 37 | 2430.50 | 5 | 20.8 |
| 38 | 2430.55 | 6 | 21.8 |
| 39 | 2430.60 | 5 | 20.8 |
| 40 | 2430.65 | 5 | 20.8 |
| 41 | 2430.70 | 5 | 20.8 |
| 42 | 2430.75 | 5 | 20.8 |
| 43 | 2430.80 | 5 | 20.8 |
| 44 | 2430.85 | 5 | 20.8 |
| 45 | 2430.90 | 5 | 20.8 |
| 46 | 2430.95 | 5 | 20.8 |
| 47 | 2431.00 | 6 | 21.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 48 | 2431.05 | 6 | 21.8 |
| 49 | 2431.10 | 6 | 21.8 |
| 50 | 2431.15 | 5 | 20.8 |
| 51 | 2431.20 | 5 | 20.8 |
| 52 | 2431.25 | 5 | 20.8 |
| 53 | 2431.30 | 5 | 20.8 |
| 54 | 2431.35 | 5 | 20.8 |
| 55 | 2431.40 | 5 | 20.8 |
| 56 | 2431.45 | 5 | 20.8 |
| 57 | 2431.50 | 5 | 20.8 |
| 58 | 2431.55 | 6 | 21.8 |
| 59 | 2431.60 | 5 | 20.8 |
| 60 | 2431.65 | 5 | 20.8 |
| 61 | 2431.70 | 4 | 19.8 |
| 62 | 2431.75 | 4 | 19.8 |
| 63 | 2431.80 | 3 | 18.8 |
| 64 | 2431.85 | 3 | 18.8 |
| 65 | 2431.90 | 3 | 18.8 |
| 66 | 2431.95 | 2 | 17.8 |
| 67 | 2432.00 | 2 | 17.8 |
| 68 | 2432.05 | 2 | 17.8 |
| 69 | 2432.10 | 2 | 17.8 |
| 70 | 2432.15 | 2 | 17.8 |
| 71 | 2432.20 | 2 | 17.8 |
| 72 | 2432.25 | 2 | 17.8 |
| 73 | 2432.30 | 2 | 17.8 |
| 74 | 2432.35 | 3 | 18.8 |
| 75 | 2432.40 | 3 | 18.8 |
| 76 | 2432.45 | 3 | 18.8 |
| 77 | 2432.50 | 2 | 17.8 |
| 78 | 2432.55 | 2 | 17.8 |
| 79 | 2432.60 | 2 | 17.8 |
| 80 | 2432.65 | 2 | 17.8 |
| 81 | 2432.70 | 3 | 18.8 |
| 82 | 2432.75 | 2 | 17.8 |
| 83 | 2432.80 | 2 | 17.8 |
| 84 | 2432.85 | 2 | 17.8 |
| 85 | 2432.90 | 2 | 17.8 |
| 86 | 2432.95 | 1 | 16.8 |
| 87 | 2433.00 | 1 | 16.8 |
| 88 | 2433.05 | 1 | 16.8 |
| 89 | 2433.10 | 1 | 16.8 |
| 90 | 2433.15 | 2 | 17.8 |
| 91 | 2433.20 | 1 | 16.8 |
| 92 | 2433.25 | 1 | 16.8 |
| 93 | 2433.30 | 1 | 16.8 |
| 94 | 2433.35 | 1 | 16.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 95 | 2433.40 | 1 | 16.8 |
| 96 | 2433.45 | 1 | 16.8 |
| 97 | 2433.50 | 0 | 15.8 |
| 98 | 2433.55 | 0 | 15.8 |
| 99 | 2433.60 | 0 | 15.8 |
| 100 | 2433.65 | 0 | 15.8 |
| 101 | 2433.70 | 0 | 15.8 |
| 102 | 2433.75 | 0 | 15.8 |
| 103 | 2433.80 | 0 | 15.8 |
| 104 | 2433.85 | 0 | 15.8 |
| 105 | 2433.90 | 0 | 15.8 |
| 106 | 2433.95 | 0 | 15.8 |
| 107 | 2434.00 | 0 | 15.8 |
| 108 | 2434.05 | 0 | 15.8 |
| 109 | 2434.10 | 0 | 15.8 |
| 110 | 2434.15 | 0 | 15.8 |
| 111 | 2434.20 | 0 | 15.8 |
| 112 | 2434.25 | -1 | 14.8 |
| 113 | 2434.30 | -1 | 14.8 |
| 114 | 2434.35 | -1 | 14.8 |
| 115 | 2434.40 | -1 | 14.8 |
| 116 | 2434.45 | -1 | 14.8 |
| 117 | 2434.50 | -2 | 13.8 |
| 118 | 2434.55 | -2 | 13.8 |
| 119 | 2434.60 | -2 | 13.8 |
| 120 | 2434.65 | -2 | 13.8 |
| 121 | 2434.70 | -2 | 13.8 |
| 122 | 2434.75 | -1 | 14.8 |
| 123 | 2434.80 | -1 | 14.8 |
| 124 | 2434.85 | -1 | 14.8 |
| 125 | 2434.90 | -2 | 13.8 |
| 126 | 2434.95 | -2 | 13.8 |
| 127 | 2435.00 | -1 | 14.8 |
| 128 | 2435.05 | -1 | 14.8 |
| 129 | 2435.10 | -1 | 14.8 |
| 130 | 2435.15 | -1 | 14.8 |
| 131 | 2435.20 | -1 | 14.8 |
| 132 | 2435.25 | -1 | 14.8 |
| 133 | 2435.30 | -1 | 14.8 |
| 134 | 2435.35 | -1 | 14.8 |
| 135 | 2435.40 | -2 | 13.8 |
| 136 | 2435.45 | -2 | 13.8 |
| 137 | 2435.50 | -2 | 13.8 |
| 138 | 2435.55 | -2 | 13.8 |
| 139 | 2435.60 | -2 | 13.8 |
| 140 | 2435.65 | -1 | 14.8 |
| 141 | 2435.70 | -1 | 14.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 142 | 2435.75 | -1 | 14.8 |
| 143 | 2435.80 | -2 | 13.8 |
| 144 | 2435.85 | -2 | 13.8 |
| 145 | 2435.90 | -2 | 13.8 |
| 146 | 2435.95 | -2 | 13.8 |
| 147 | 2436.00 | -2 | 13.8 |
| 148 | 2436.05 | -2 | 13.8 |
| 149 | 2436.10 | -2 | 13.8 |
| 150 | 2436.15 | -2 | 13.8 |
| 151 | 2436.20 | -2 | 13.8 |
| 152 | 2436.25 | -2 | 13.8 |
| 153 | 2436.30 | -2 | 13.8 |
| 154 | 2436.35 | -2 | 13.8 |
| 155 | 2436.40 | -2 | 13.8 |
| 156 | 2436.45 | -3 | 12.8 |
| 157 | 2436.50 | -3 | 12.8 |
| 158 | 2436.55 | -3 | 12.8 |
| 159 | 2436.60 | -3 | 12.8 |
| 160 | 2436.65 | -3 | 12.8 |
| 161 | 2436.70 | -3 | 12.8 |
| 162 | 2436.75 | -3 | 12.8 |
| 163 | 2436.80 | -3 | 12.8 |
| 164 | 2436.85 | -3 | 12.8 |
| 165 | 2436.90 | -3 | 12.8 |
| 166 | 2436.95 | -3 | 12.8 |
| 167 | 2437.00 | -3 | 12.8 |
| 168 | 2437.05 | -3 | 12.8 |
| 169 | 2437.10 | -3 | 12.8 |
| 170 | 2437.15 | -3 | 12.8 |
| 171 | 2437.20 | -3 | 12.8 |
| 172 | 2437.25 | -3 | 12.8 |
| 173 | 2437.30 | -3 | 12.8 |
| 174 | 2437.35 | -3 | 12.8 |
| 175 | 2437.40 | -3 | 12.8 |
| 176 | 2437.45 | -3 | 12.8 |
| 177 | 2437.50 | -3 | 12.8 |
| 178 | 2437.55 | -3 | 12.8 |
| 179 | 2437.60 | -3 | 12.8 |
| 180 | 2437.65 | -3 | 12.8 |
| 181 | 2437.70 | -3 | 12.8 |
| 182 | 2437.75 | -3 | 12.8 |
| 183 | 2437.80 | -3 | 12.8 |
| 184 | 2437.85 | -3 | 12.8 |
| 185 | 2437.90 | -3 | 12.8 |
| 186 | 2437.95 | -3 | 12.8 |
| 187 | 2438.00 | -3 | 12.8 |
| 188 | 2438.05 | -3 | 12.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 189 | 2438.10 | -3 | 12.8 |
| 190 | 2438.15 | -3 | 12.8 |
| 191 | 2438.20 | -3 | 12.8 |
| 192 | 2438.25 | -3 | 12.8 |
| 193 | 2438.30 | -3 | 12.8 |
| 194 | 2438.35 | -4 | 11.8 |
| 195 | 2438.40 | -4 | 11.8 |
| 196 | 2438.45 | -4 | 11.8 |
| 197 | 2438.50 | -3 | 12.8 |
| 198 | 2438.55 | -3 | 12.8 |
| 199 | 2438.60 | -3 | 12.8 |
| 200 | 2438.65 | -3 | 12.8 |
| 201 | 2438.70 | -3 | 12.8 |
| 202 | 2438.75 | -3 | 12.8 |
| 203 | 2438.80 | -3 | 12.8 |
| 204 | 2438.85 | -3 | 12.8 |
| 205 | 2438.90 | -3 | 12.8 |
| 206 | 2438.95 | -3 | 12.8 |
| 207 | 2439.00 | -3 | 12.8 |
| 208 | 2439.05 | -3 | 12.8 |
| 209 | 2439.10 | -4 | 11.8 |
| 210 | 2439.15 | -4 | 11.8 |
| 211 | 2439.20 | -4 | 11.8 |
| 212 | 2439.25 | -4 | 11.8 |
| 213 | 2439.30 | -4 | 11.8 |
| 214 | 2439.35 | -4 | 11.8 |
| 215 | 2439.40 | -4 | 11.8 |
| 216 | 2439.45 | -3 | 12.8 |
| 217 | 2439.50 | -4 | 11.8 |
| 218 | 2439.55 | -4 | 11.8 |
| 219 | 2439.60 | -4 | 11.8 |
| 220 | 2439.65 | -4 | 11.8 |
| 221 | 2439.70 | -4 | 11.8 |
| 222 | 2439.75 | -3 | 12.8 |
| 223 | 2439.80 | -3 | 12.8 |
| 224 | 2439.85 | -3 | 12.8 |
| 225 | 2439.90 | -3 | 12.8 |
| 226 | 2439.95 | -3 | 12.8 |
| 227 | 2440.00 | -3 | 12.8 |
| 228 | 2440.05 | -3 | 12.8 |
| 229 | 2440.10 | -3 | 12.8 |
| 230 | 2440.15 | -3 | 12.8 |
| 231 | 2440.20 | -3 | 12.8 |
| 232 | 2440.25 | -2 | 13.8 |
| 233 | 2440.30 | -2 | 13.8 |
| 234 | 2440.35 | -2 | 13.8 |
| 235 | 2440.40 | -3 | 12.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 236 | 2440.45 | -3 | 12.8 |
| 237 | 2440.50 | -2 | 13.8 |
| 238 | 2440.55 | -2 | 13.8 |
| 239 | 2440.60 | -2 | 13.8 |
| 240 | 2440.65 | -2 | 13.8 |
| 241 | 2440.70 | -2 | 13.8 |
| 242 | 2440.75 | -2 | 13.8 |
| 243 | 2440.80 | -2 | 13.8 |
| 244 | 2440.85 | -3 | 12.8 |
| 245 | 2440.90 | -2 | 13.8 |
| 246 | 2440.95 | -3 | 12.8 |
| 247 | 2441.00 | -2 | 13.8 |
| 248 | 2441.05 | -2 | 13.8 |
| 249 | 2441.10 | -2 | 13.8 |
| 250 | 2441.15 | -2 | 13.8 |
| 251 | 2441.20 | -1 | 14.8 |
| 252 | 2441.25 | -2 | 13.8 |
| 253 | 2441.30 | -2 | 13.8 |
| 254 | 2441.35 | -2 | 13.8 |
| 255 | 2441.40 | -1 | 14.8 |
| 256 | 2441.45 | -1 | 14.8 |
| 257 | 2441.50 | -1 | 14.8 |
| 258 | 2441.55 | -1 | 14.8 |
| 259 | 2441.60 | -1 | 14.8 |
| 260 | 2441.65 | -1 | 14.8 |
| 261 | 2441.70 | -1 | 14.8 |
| 262 | 2441.75 | -1 | 14.8 |
| 263 | 2441.80 | -1 | 14.8 |
| 264 | 2441.85 | -1 | 14.8 |
| 265 | 2441.90 | -1 | 14.8 |
| 266 | 2441.95 | 0 | 15.8 |
| 267 | 2442.00 | -1 | 14.8 |
| 268 | 2442.05 | -1 | 14.8 |
| 269 | 2442.10 | -1 | 14.8 |
| 270 | 2442.15 | -1 | 14.8 |
| 271 | 2442.20 | -1 | 14.8 |
| 272 | 2442.25 | -1 | 14.8 |
| 273 | 2442.30 | -2 | 13.8 |
| 274 | 2442.35 | -1 | 14.8 |
| 275 | 2442.40 | -2 | 13.8 |
| 276 | 2442.45 | -1 | 14.8 |
| 277 | 2442.50 | -2 | 13.8 |
| 278 | 2442.55 | -2 | 13.8 |
| 279 | 2442.60 | -2 | 13.8 |
| 280 | 2442.65 | -1 | 14.8 |
| 281 | 2442.70 | -1 | 14.8 |
| 282 | 2442.75 | -1 | 14.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 283 | 2442.80 | -1 | 14.8 |
| 284 | 2442.85 | -2 | 13.8 |
| 285 | 2442.90 | -2.5 | 13.3 |
| 286 | 2442.95 | -2 | 13.8 |
| 287 | 2443.00 | -2 | 13.8 |
| 288 | 2443.05 | -2 | 13.8 |
| 289 | 2443.10 | -2 | 13.8 |
| 290 | 2443.15 | -2 | 13.8 |
| 291 | 2443.20 | -2 | 13.8 |
| 292 | 2443.25 | -2 | 13.8 |
| 293 | 2443.30 | -2 | 13.8 |
| 294 | 2443.35 | -2 | 13.8 |
| 295 | 2443.40 | -3 | 12.8 |
| 296 | 2443.45 | -2 | 13.8 |
| 297 | 2443.50 | -3 | 12.8 |
| 298 | 2443.55 | -2 | 13.8 |
| 299 | 2443.60 | -2 | 13.8 |
| 300 | 2443.65 | -2 | 13.8 |
| 301 | 2443.70 | -2 | 13.8 |
| 302 | 2443.75 | -2 | 13.8 |
| 303 | 2443.80 | -2 | 13.8 |
| 304 | 2443.85 | -3 | 12.8 |
| 305 | 2443.90 | -3 | 12.8 |
| 306 | 2443.95 | -3 | 12.8 |
| 307 | 2444.00 | -3 | 12.8 |
| 308 | 2444.05 | -2 | 13.8 |
| 309 | 2444.10 | -3 | 12.8 |
| 310 | 2444.15 | -3 | 12.8 |
| 311 | 2444.20 | -2 | 13.8 |
| 312 | 2444.25 | -2 | 13.8 |
| 313 | 2444.30 | -3 | 12.8 |
| 314 | 2444.35 | -3 | 12.8 |
| 315 | 2444.40 | -3 | 12.8 |
| 316 | 2444.45 | -3 | 12.8 |
| 317 | 2444.50 | -2 | 13.8 |
| 318 | 2444.55 | -1 | 14.8 |
| 319 | 2444.60 | -2 | 13.8 |
| 320 | 2444.65 | -3 | 12.8 |
| 321 | 2444.70 | -3 | 12.8 |
| 322 | 2444.75 | -2 | 13.8 |
| 323 | 2444.80 | -2 | 13.8 |
| 324 | 2444.85 | -3 | 12.8 |
| 325 | 2444.90 | -3 | 12.8 |
| 326 | 2444.95 | -3 | 12.8 |
| 327 | 2445.00 | -3 | 12.8 |
| 328 | 2445.05 | -3 | 12.8 |
| 329 | 2445.10 | -3 | 12.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 330 | 2445.15 | -3 | 12.8 |
| 331 | 2445.20 | -3 | 12.8 |
| 332 | 2445.25 | -3 | 12.8 |
| 333 | 2445.30 | -3 | 12.8 |
| 334 | 2445.35 | -3 | 12.8 |
| 335 | 2445.40 | -2 | 13.8 |
| 336 | 2445.45 | -3 | 12.8 |
| 337 | 2445.50 | -3 | 12.8 |
| 338 | 2445.55 | -2 | 13.8 |
| 339 | 2445.60 | -2 | 13.8 |
| 340 | 2445.65 | -2 | 13.8 |
| 341 | 2445.70 | -2 | 13.8 |
| 342 | 2445.75 | -3 | 12.8 |
| 343 | 2445.80 | -3 | 12.8 |
| 344 | 2445.85 | -3 | 12.8 |
| 345 | 2445.90 | -2 | 13.8 |
| 346 | 2445.95 | -2 | 13.8 |
| 347 | 2446.00 | -3 | 12.8 |
| 348 | 2446.05 | -3 | 12.8 |
| 349 | 2446.10 | -3 | 12.8 |
| 350 | 2446.15 | -3 | 12.8 |
| 351 | 2446.20 | -3 | 12.8 |
| 352 | 2446.25 | -2 | 13.8 |
| 353 | 2446.30 | -3 | 12.8 |
| 354 | 2446.35 | -3 | 12.8 |
| 355 | 2446.40 | -3 | 12.8 |
| 356 | 2446.45 | -2 | 13.8 |
| 357 | 2446.50 | -2 | 13.8 |
| 358 | 2446.55 | -2 | 13.8 |
| 359 | 2446.60 | -2 | 13.8 |
| 360 | 2446.65 | -2 | 13.8 |
| 361 | 2446.70 | -3 | 12.8 |
| 362 | 2446.75 | -3 | 12.8 |
| 363 | 2446.80 | -3 | 12.8 |
| 364 | 2446.85 | -2 | 13.8 |
| 365 | 2446.90 | -2 | 13.8 |
| 366 | 2446.95 | -2 | 13.8 |
| 367 | 2447.00 | -2 | 13.8 |
| 368 | 2447.05 | -2 | 13.8 |
| 369 | 2447.10 | -2 | 13.8 |
| 370 | 2447.15 | -2 | 13.8 |
| 371 | 2447.20 | -2 | 13.8 |
| 372 | 2447.25 | -1 | 14.8 |
| 373 | 2447.30 | -1 | 14.8 |
| 374 | 2447.35 | -1 | 14.8 |
| 375 | 2447.40 | -1 | 14.8 |
| 376 | 2447.45 | -1 | 14.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 377 | 2447.50 | -1 | 14.8 |
| 378 | 2447.55 | -2 | 13.8 |
| 379 | 2447.60 | -2 | 13.8 |
| 380 | 2447.65 | -1 | 14.8 |
| 381 | 2447.70 | -1 | 14.8 |
| 382 | 2447.75 | -1 | 14.8 |
| 383 | 2447.80 | 0 | 15.8 |
| 384 | 2447.85 | 0 | 15.8 |
| 385 | 2447.90 | 0 | 15.8 |
| 386 | 2447.95 | 0 | 15.8 |
| 387 | 2448.00 | 0 | 15.8 |
| 388 | 2448.05 | 0 | 15.8 |
| 389 | 2448.10 | 0 | 15.8 |
| 390 | 2448.15 | 0 | 15.8 |
| 391 | 2448.20 | 0 | 15.8 |
| 392 | 2448.25 | 0 | 15.8 |
| 393 | 2448.30 | 0 | 15.8 |
| 394 | 2448.35 | 0 | 15.8 |
| 395 | 2448.40 | 1 | 16.8 |
| 396 | 2448.45 | 0 | 15.8 |
| 397 | 2448.50 | 0 | 15.8 |
| 398 | 2448.55 | 1 | 16.8 |
| 399 | 2448.60 | 1 | 16.8 |
| 400 | 2448.65 | 1 | 16.8 |
| 401 | 2448.70 | 1 | 16.8 |
| 402 | 2448.75 | 2 | 17.8 |
| 403 | 2448.80 | 1 | 16.8 |
| 404 | 2448.85 | 2 | 17.8 |
| 405 | 2448.90 | 2 | 17.8 |
| 406 | 2448.95 | 2 | 17.8 |
| 407 | 2449.00 | 2 | 17.8 |
| 408 | 2449.05 | 2 | 17.8 |
| 409 | 2449.10 | 3 | 18.8 |
| 410 | 2449.15 | 3 | 18.8 |
| 411 | 2449.20 | 3 | 18.8 |
| 412 | 2449.25 | 3 | 18.8 |
| 413 | 2449.30 | 4 | 19.8 |
| 414 | 2449.35 | 3 | 18.8 |
| 415 | 2449.40 | 3 | 18.8 |
| 416 | 2449.45 | 4 | 19.8 |
| 417 | 2449.50 | 4 | 19.8 |
| 418 | 2449.55 | 4 | 19.8 |
| 419 | 2449.60 | 4 | 19.8 |
| 420 | 2449.65 | 4 | 19.8 |
| 421 | 2449.70 | 4 | 19.8 |
| 422 | 2449.75 | 4 | 19.8 |
| 423 | 2449.80 | 4 | 19.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 424 | 2449.85 | 4 | 19.8 |
| 425 | 2449.90 | 4 | 19.8 |
| 426 | 2449.95 | 4 | 19.8 |
| 427 | 2450.00 | 5 | 20.8 |
| 428 | 2450.05 | 6 | 21.8 |
| 429 | 2450.10 | 5 | 20.8 |
| 430 | 2450.15 | 5 | 20.8 |
| 431 | 2450.20 | 5 | 20.8 |
| 432 | 2450.25 | 5 | 20.8 |
| 433 | 2450.30 | 5 | 20.8 |
| 434 | 2450.35 | 5 | 20.8 |
| 435 | 2450.40 | 5 | 20.8 |
| 436 | 2450.45 | 6 | 21.8 |
| 437 | 2450.50 | 7 | 22.8 |
| 438 | 2450.55 | 7 | 22.8 |
| 439 | 2450.60 | 8 | 23.8 |
| 440 | 2450.65 | 7 | 22.8 |
| 441 | 2450.70 | 7 | 22.8 |
| 442 | 2450.75 | 8 | 23.8 |
| 443 | 2450.80 | 8 | 23.8 |
| 444 | 2450.85 | 8 | 23.8 |
| 445 | 2450.90 | 8 | 23.8 |
| 446 | 2450.95 | 9 | 24.8 |
| 447 | 2451.00 | 9 | 24.8 |
| 448 | 2451.05 | 9 | 24.8 |
| 449 | 2451.10 | 9 | 24.8 |
| 450 | 2451.15 | 10 | 25.8 |
| 451 | 2451.20 | 9 | 24.8 |
| 452 | 2451.25 | 9 | 24.8 |
| 453 | 2451.30 | 9 | 24.8 |
| 454 | 2451.35 | 10 | 25.8 |
| 455 | 2451.40 | 9 | 24.8 |
| 456 | 2451.45 | 10 | 25.8 |
| 457 | 2451.50 | 10 | 25.8 |
| 458 | 2451.55 | 11 | 26.8 |
| 459 | 2451.60 | 11 | 26.8 |
| 460 | 2451.65 | 11 | 26.8 |
| 461 | 2451.70 | 11 | 26.8 |
| 462 | 2451.75 | 11 | 26.8 |
| 463 | 2451.80 | 11 | 26.8 |
| 464 | 2451.85 | 12 | 27.8 |
| 465 | 2451.90 | 12 | 27.8 |
| 466 | 2451.95 | 12 | 27.8 |
| 467 | 2452.00 | 12 | 27.8 |
| 468 | 2452.05 | 13 | 28.8 |
| 469 | 2452.10 | 13 | 28.8 |
| 470 | 2452.15 | 13 | 28.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 471 | 2452.20 | 13 | 28.8 |
| 472 | 2452.25 | 13 | 28.8 |
| 473 | 2452.30 | 14 | 29.8 |
| 474 | 2452.35 | 14 | 29.8 |
| 475 | 2452.40 | 15 | 30.8 |
| 476 | 2452.45 | 15 | 30.8 |
| 477 | 2452.50 | 15 | 30.8 |
| 478 | 2452.55 | 16 | 31.8 |
| 479 | 2452.60 | 16 | 31.8 |
| 480 | 2452.65 | 16 | 31.8 |
| 481 | 2452.70 | 16 | 31.8 |
| 482 | 2452.75 | 16 | 31.8 |
| 483 | 2452.80 | 17 | 32.8 |
| 484 | 2452.85 | 17 | 32.8 |
| 485 | 2452.90 | 17 | 32.8 |
| 486 | 2452.95 | 17 | 32.8 |
| 487 | 2453.00 | 18 | 33.8 |
| 488 | 2453.05 | 18 | 33.8 |
| 489 | 2453.10 | 18 | 33.8 |
| 490 | 2453.15 | 18 | 33.8 |
| 491 | 2453.20 | 19 | 34.8 |
| 492 | 2453.25 | 20 | 35.8 |
| 493 | 2453.30 | 20 | 35.8 |
| 494 | 2453.35 | 20 | 35.8 |
| 495 | 2453.40 | 20 | 35.8 |
| 496 | 2453.45 | 21 | 36.8 |
| 497 | 2453.50 | 21 | 36.8 |
| 498 | 2453.55 | 21 | 36.8 |
| 499 | 2453.60 | 21 | 36.8 |
| 500 | 2453.65 | 22 | 37.8 |
| 501 | 2453.70 | 23 | 38.8 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2441.20 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.40 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.50 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.55 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.60 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.80 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.85 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.90 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.95 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2442.00 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.05 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.10 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.15 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2442.20 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.80 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.85 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.90 | -9.30 | -31.30 | -33.80 | -2.50 | 13.30 |
| 2442.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2443.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.45 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2444.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.55 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2444.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2445.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.25 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2446.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.45 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.85 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2447.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.30 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.40 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.50 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.80 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2447.85 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2447.90 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2447.95 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.00 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.05 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.10 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.15 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2448.20 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.25 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.30 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.35 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.40 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.45 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.50 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.55 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.60 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.65 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.70 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.75 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2448.80 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.85 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2448.90 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2448.95 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2449.00 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2449.05 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2449.10 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.15 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2449.20 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.25 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.30 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.35 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.40 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.45 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.50 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.55 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.60 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.65 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.70 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.75 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.80 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.85 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.90 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.95 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2450.00 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.05 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2450.10 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.15 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2450.20 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.25 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.30 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.35 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.40 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.45 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2450.50 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.55 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.60 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.65 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.70 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.75 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.80 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.85 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.90 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.95 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.00 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.05 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.10 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.15 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2451.20 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.25 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.30 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.35 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2451.40 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.45 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2451.50 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2451.55 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.60 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.65 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.70 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.75 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.80 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.85 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2451.90 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2451.95 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2452.00 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2452.05 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.10 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.15 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2452.20 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.25 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.30 | -9.30 | -31.30 | -17.30 | 14.00 | 29.80 |
| 2452.35 | -9.30 | -31.30 | -17.30 | 14.00 | 29.80 |
| 2452.40 | -9.30 | -31.30 | -16.30 | 15.00 | 30.80 |
| 2452.45 | -9.30 | -31.30 | -16.30 | 15.00 | 30.80 |
| 2452.50 | -9.30 | -31.30 | -16.30 | 15.00 | 30.80 |
| 2452.55 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.60 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.65 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.70 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.75 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.80 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2452.85 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2452.90 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2452.95 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2453.00 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |
| 2453.05 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |
| 2453.10 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |
| 2453.15 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2453.20 | -9.30 | -31.30 | -12.30 | 19.00 | 34.80 |
| 2453.25 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.30 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.35 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.40 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.45 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.50 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.55 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.60 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.65 | -9.30 | -31.30 | -9.30 | 22.00 | 37.80 |
| 2453.70 | -9.30 | -31.30 | -8.30 | 23.00 | 38.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2428.70 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.75 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.80 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.85 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.90 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.95 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2429.00 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.05 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.10 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.15 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.20 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.25 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.30 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.35 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.40 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.45 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.50 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.55 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.60 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.65 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2429.70 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.75 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.80 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.85 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.90 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2429.95 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.00 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.05 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.10 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.15 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.20 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.25 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.30 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.35 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.40 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.45 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.50 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.55 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.60 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.65 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2430.70 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.75 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.80 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.85 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.90 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.95 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.00 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.05 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.10 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.15 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.20 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.25 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.30 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.35 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.40 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.45 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.50 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.55 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.60 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.65 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2431.70 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2431.75 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2431.80 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2431.85 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2431.90 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2431.95 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.00 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.05 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.10 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.15 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.20 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.25 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.30 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.35 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.40 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.45 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.50 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.55 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.60 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.65 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2432.70 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.75 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.80 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.85 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.90 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.95 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.00 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.05 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.10 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.15 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2433.20 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.25 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.30 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.35 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.40 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.45 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.50 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.55 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.60 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.65 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2433.70 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.75 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.80 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.85 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.90 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.95 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.00 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.05 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.10 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.15 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.20 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.30 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.40 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2434.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.80 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.85 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.00 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.05 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.10 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.15 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.20 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.30 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.45 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2435.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.85 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.55 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.60 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2436.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.25 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.55 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.60 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2437.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.25 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.35 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2438.40 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2438.45 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2438.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.55 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.60 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2438.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.10 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.15 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.20 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.25 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.30 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.35 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.40 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.50 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.55 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.60 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.65 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2439.70 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2440.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2441.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

# RadioConnect, Corporation

| | | |
|---|---|---|
| To: | Mr. Scott McCutchan<br>Compatible Electronics, Inc. | July 28, 1998<br>Ref: 980728-AT-1<br>Total Pages: 31<br>Including This Page |
| From: | Arthur Tanaka | |
| Email: | atanaka@radioconnect.com | |
| Voice: | 310-338-3388 x 232<br>Project: RadioWire | Fax 310-338-3399 |
| Subject: | Reply to FCC Response for **FCC ID: NFX-RCC0001-00** | |

Dear Scott,

Included with this fax is a Confidentiality Letter, copy of update to manual regarding RF safety considerations during installation, copy of manual update concerning multiple transmitters, and responses to questions posed by the FCC.

| Item | FCC Report Issue | Comments |
|---|---|---|
| 1 | Confidentiality letter | See attached transmittal Ref:980728-HMF-1, Exhibit 1 |
| 2 | Lower Maximum Power | The latest version of the RWM tested has a maximum output power that is about 6 dB less than the previous version. In order to meet the restricted band limits, we installed a bandpass filter and reduced the number of frequency channels to ensure compliance. The filter has 6 dB of loss which lowered our output power by 6 dB. |
| 3 | Review of RF safety | I have reviewed supplement C to OET Bulletin 65. I updated the calculations verifying compliance with the MPE limits to reflect the changes in our present configuration. We chose to keep the conservative wording in our manual. See attached update to our user's manual "RF Safety Considerations for Installation of RadioWire Modem", Exhibit 2. |
| 4 | Same information through multiple co-located transmitters. | RCC does not intend that interconnected co-located point-to-point transmitters would be used to send the same information on more than one link. RWM units are not intended to be used in this fashion. We have included a notice in our manual to our customers stating this regulation. See attached update, Exhibit 3. |
| 5 | Process Gain Test Data | See included test data, Exhibit 4. |

Best regards,

Arthur Tanaka

6041 Bristol Parkway Culver City, California 90230 telephone (310) 338-3388 facsimile (310) 338-3399

**FEDERAL COMMUNICATIONS COMMISSION**
*Authorization and Evaluation Division, Applications Processing Branch*
7435 Oakland Mills Road, Columbia, MD 21046
*Telephone:* (301) 725-1585, Facsimile: (301) 344-2050
July 28, 1998

**FROM:** Joe Dichoso **EXTENSION:** 214

**TO:** Scott McCutchan
**ORGANIZATION:** *Compatible Electronics, Inc.*

**PHONE NUMBER:** 714 579 0500 **FAX NUMBER:** 714 579 1850

This cover sheet is page 1 of '1' pages. Please direct inquiries to the sender at the above extension.

**REFERENCE FCC ID:** NFX-RCC0001-00 **DEVICE:** TX
**APPLICANT:** RadioConnect Corporation

The items indicated below or on the attachment must be submitted *before processing* can continue on the above referenced application. Failure to provide the requested information within 60 days from June 29, 1998 may result in application dismissal pursuant to Section 2.917(c) and forfeiture of the filing fee pursuant to Section 1.1106.

[ x ] The confidential letter did not list block diagram 30112, schematic 40127 and 40130 although they were labeled as confidential. Also, the photographs of the device cannot be held confidential and will have to be removed from the list. Please correct the confidential letter accordingly.

[ x ] Indicate why the maximum output power is now lower than what was previously tested.

[ x ] Review of the RF safety requirements will be reviewed once the output power is resolved. Please consider that you used some bulletin dated in 1996. Supplement C to OET Bulleting 65 has been updated recently. You should make any appropriate changes in light of the recent changes.

[ x ] Arthur Tanaka had indicated that it is possible to send the same information through multiple colocated transmitters. This is not allowed for point-to-point colocated transmitters. The installer will have to be informed that such configuration is prohibited.

[ x ] With regard to the Process Gain test, Arthur Tanaka is going to send in data showing the Jammer and Signal levels at the power meter that causes the chosen BER at the receiver. The submitted data is confusing as it appears to unnecessarily take into account the cable losses, attenuation losses etc...

# EXHIBIT 1
## CONFIDENTIALITY LETTER

# RadioConnect Corporation

| | | |
|---|---|---|
| To: | Mr. Scott McCutchan<br>Compatible Electronics, Inc. | July 28, 1998<br>Ref: 980728-HMF-1<br>Total Pages: 1<br>Including This Page |
| From: | Maurice France | |
| Email: | HMFrance@radioconnect.com | |
| Voice: | 310-338-3388 x 222<br>Project: RadioWire | Fax 310-338-3399 |
| Subject: | FCC Request for Confidentiality Letter, FCC ID: NFX-RCC0001-00 | |

Dear Scott,

In regards to the FCC fax from Joe Dichoso dated July 28,1998, I am including an updated table of documents to be kept confidential. Please inform the FCC to keep the following documents submitted for "FCC PART 15 APPLICATION for 2.44 GHZ RADIOWIRE MODEM MODEL:RCC0001 FCCID NFX-RCC0001-00" confidential:

| Description | Dwg # | Sheets |
|---|---|---|
| Block Diagram, Transceiver Board | 30105 | 1 |
| Block Diagram, Spread Spectrum Controller | 30106 | 1 |
| Block Diagram, Application Processor | 30107 | 1 |
| Block Diagram, IF Demodulator Board | 30108 | 1 |
| RWM Backplane | 40104 | 1 -2 |
| Transceiver Board | 40105 | 1 - 4 |
| Spread Spectrum Controller | 40106 | 1 - 5 |
| RWM Application Processor Board | 40107 | 1 -2 |
| IF Demodulator | 40108 | 1 - 5 |
| RWM Power Supply | 40111 | 1 |
| Cable Assembly, WROL, 50' | 70100 | 1 - 2 |
| Cable Assembly, Power Supply | 70109 | 1 - 2 |
| Schematic, Main Board Ethernet NIM | 40127 | 1 - 2 |
| Schematic, Main Board Serial NIM | 40130 | 1 - 2 |

The updated table includes the following changes

- Two additional schematics, drawing numbers 40127 and 40130 are added to the table.
- Block diagram 30112 is not a confidential document.
- The photographs of the device have been removed from the table

Best regards,

H. Maurice France

6041 Bristol Parkway Culver City, California 90230 telephone (310) 338-3388 facsimile (310) 338-3399

# EXHIBIT 2
## REVIEW OF RF SAFETY

## RF Safety Considerations for Installation of RadioWire Modem

In 1996, the FCC adopted new guidelines for evaluating environmental effects of RF emissions. The set limits for Maximum Permissible Exposure (MPE) to RF energy in the 2.4 GHz band, where the RadioWire Modem operates, is set at 5 $mW/cm^2$ for Occupational/Controlled Exposures and 1 $mW/cm^2$ for General Population/Uncontrolled Exposure as stated in Supplement C to OET Bulletin 65. Occupational/Controlled limits apply in situations where persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control of their exposure. Uncontrolled Exposure applies to situations where the general public may be exposed and may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The RadioWire Modem (RWM) should be installed by competent technical person who understands the potential for exposure and can exercise proper judgement during the installation of this product.

Radio Connect Corporation (RCC) recommends that the RWM be installed in a location where members of the general population cannot walk into the direct RF path or touch the antenna. This is necessary both to ensure a reliable connection and to avoid unnecessary exposure to RF emissions.

RCC recommends that the installation of the RadioWire Equipment is done with the equipment off to eliminate the risk of unnecessary exposure to RF energy. When fine tuning the direction of the antenna, keep your RF exposure time to a minimum if you need to place hands or other body parts in locations listed in the special cases below.

Normal installation of this product is possible without exposure to RF levels in excess of MPE limits for Controlled Exposure.

With installation per RCC recommendations, the RadioWire Modem does not generate power density levels in excess of the MPE Limits for General Population/Uncontrolled Exposure. Be aware of the situations where the limits for Occupational/Controlled Exposures are approached or exceeded. These are:

- Maximum Permissible Exposure (MPE) limits for Uncontrolled Exposure is exceeded for distances closer than 11.2 cm (2.2 inches) from the helical antenna within the 35° beamwidth.
- MPE limits for Controlled Exposure is exceeded for distances closer than 5 cm (2 inches) from the helical antenna within the 35° beamwidth.
- MPE limits for Controlled Exposure can be exceeded in the area between the reflecting surface of the 0.6m dish and the actively radiating antenna.

As noted above, RCC recommends that this equipment be installed so these situations are not generally possible.

# EXHIBIT 3
## POINT-TO-POINT CO-LOCATED TRANSMITTERS

## Operator/Installer's responsibility to comply with FCC 15.247(b)(3)(iii)

It is a violation of the FCC regulation 15.247(b)(3)(iii) to use multiple co-located wireless modems to transmit the same information. The operator or professional installers are responsible for ensuring that the system is used exclusively for fixed, point-to-point operations where co-located RWMs are used.

# EXHIBIT 4
## PROCESS GAIN TEST DATA

**Process Gain Test Procedure**

1) Set up process gain test fixture as shown in figure 1.

2) Turn off Signal Generator RF output. Turn on both RadioWire Modems (RWMs).

3) Measure power with Power Meter at port 2 of the RF Splitter.

4) Turn off RWMs and turn on Signal Generator RF output.

5) Set the Signal Generator frequency to match the center frequency of the RWM. Adjust the RF output of the Signal Generator to match the RF output of the RWM.

6) Set the attenuator readout of the Signal Generator to indicate a relative output of 0 dB. In this mode, the Signal Generator will display the Jammer level relative to the RWM signal level. If the Jammer level is 2 dB less than the RWM, -2 dB will be displayed on the Signal Generator.

7) Turn off the Signal Generator RF output. Turn on the RWMs and allow for synchronization.

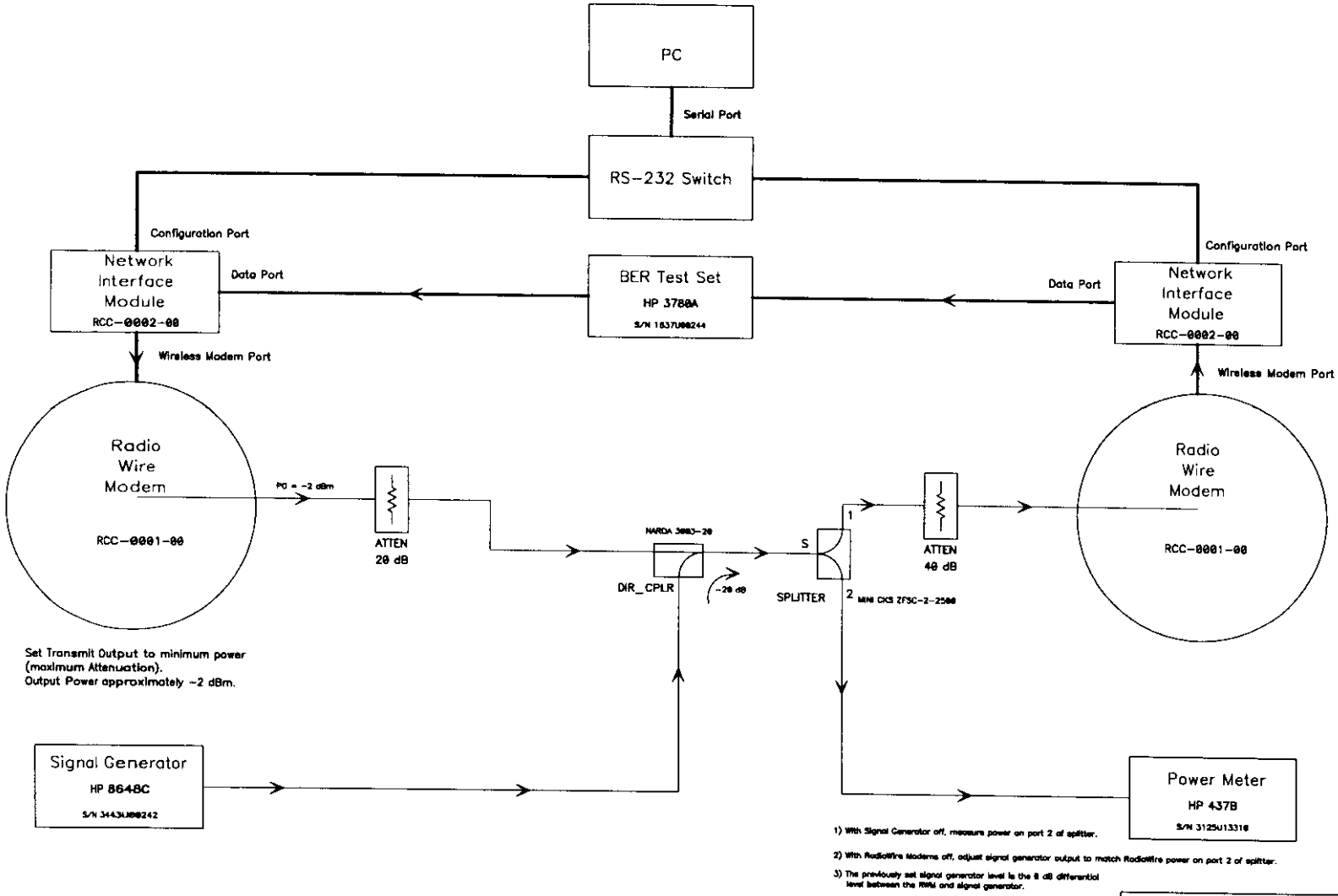
8) Set Signal Generator RF output to -10 dB and slowly increase the jamming level until a bit error rate of $0.1 * 10^{-5}$ is displayed. This corresponds to an error rate of $1 * 10^{-6}$.

9) Log the frequency jammer level relative to the RWM level.

10) Increment the frequency of the Signal Generator by 50 kHz. Continue with steps 8 - 10 until the entire passband is logged.

**FCC ID: NFX-RCC0001-00**

## Process Gain Test Setup




**RadioConnect Corporation**
6041 Bristol Parkway, Culver City, CA 90230 (310) 338-3388

| | | |
|---|---|---|
| Title: Block Diagram, Process Gain Test Fixture | | |
| Size: C | Number: | Rev: 0.1 |
| Date: 7/7/98 | | Drawn by: AJT |
| Filename: GAINTST.SCH | | Sheet: 1 of 1 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 1 | 2438.35 | -4 | 11.8 |
| 2 | 2438.40 | -4 | 11.8 |
| 3 | 2438.45 | -4 | 11.8 |
| 4 | 2439.10 | -4 | 11.8 |
| 5 | 2439.15 | -4 | 11.8 |
| 6 | 2439.20 | -4 | 11.8 |
| 7 | 2439.25 | -4 | 11.8 |
| 8 | 2439.30 | -4 | 11.8 |
| 9 | 2439.35 | -4 | 11.8 |
| 10 | 2439.40 | -4 | 11.8 |
| 11 | 2439.50 | -4 | 11.8 |
| 12 | 2439.55 | -4 | 11.8 |
| 13 | 2439.60 | -4 | 11.8 |
| 14 | 2439.65 | -4 | 11.8 |
| 15 | 2439.70 | -4 | 11.8 |
| 16 | 2436.45 | -3 | 12.8 |
| 17 | 2436.50 | -3 | 12.8 |
| 18 | 2436.55 | -3 | 12.8 |
| 19 | 2436.60 | -3 | 12.8 |
| 20 | 2436.65 | -3 | 12.8 |
| 21 | 2436.70 | -3 | 12.8 |
| 22 | 2436.75 | -3 | 12.8 |
| 23 | 2436.80 | -3 | 12.8 |
| 24 | 2436.85 | -3 | 12.8 |
| 25 | 2436.90 | -3 | 12.8 |
| 26 | 2436.95 | -3 | 12.8 |
| 27 | 2437.00 | -3 | 12.8 |
| 28 | 2437.05 | -3 | 12.8 |
| 29 | 2437.10 | -3 | 12.8 |
| 30 | 2437.15 | -3 | 12.8 |
| 31 | 2437.20 | -3 | 12.8 |
| 32 | 2437.25 | -3 | 12.8 |
| 33 | 2437.30 | -3 | 12.8 |
| 34 | 2437.35 | -3 | 12.8 |
| 35 | 2437.40 | -3 | 12.8 |
| 36 | 2437.45 | -3 | 12.8 |
| 37 | 2437.50 | -3 | 12.8 |
| 38 | 2437.55 | -3 | 12.8 |
| 39 | 2437.60 | -3 | 12.8 |
| 40 | 2437.65 | -3 | 12.8 |
| 41 | 2437.70 | -3 | 12.8 |
| 42 | 2437.75 | -3 | 12.8 |
| 43 | 2437.80 | -3 | 12.8 |
| 44 | 2437.85 | -3 | 12.8 |
| 45 | 2437.90 | -3 | 12.8 |
| 46 | 2437.95 | -3 | 12.8 |
| 47 | 2438.00 | -3 | 12.8 |
| 48 | 2438.05 | -3 | 12.8 |
| 49 | 2438.10 | -3 | 12.8 |
| 50 | 2438.15 | -3 | 12.8 |
| 51 | 2438.20 | -3 | 12.8 |
| 52 | 2438.25 | -3 | 12.8 |

| | |
|---|---|
| Mj J/S Ratio = | Signal Gen (dBm) - RWM (dBm) |
| Proc. Gain = | Mj J/S + Sys Loss + (S/N)o |
| Sys Loss = | 2 dB |
| (S/N)o = | 13.8 dB |
| Total # of Samples | 501 |
| 20% of Samples | 100 |
| Proc Gain @ #101 | 12.8 dB |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 53 | 2438.30 | -3 | 12.8 |
| 54 | 2438.50 | -3 | 12.8 |
| 55 | 2438.55 | -3 | 12.8 |
| 56 | 2438.60 | -3 | 12.8 |
| 57 | 2438.65 | -3 | 12.8 |
| 58 | 2438.70 | -3 | 12.8 |
| 59 | 2438.75 | -3 | 12.8 |
| 60 | 2438.80 | -3 | 12.8 |
| 61 | 2438.85 | -3 | 12.8 |
| 62 | 2438.90 | -3 | 12.8 |
| 63 | 2438.95 | -3 | 12.8 |
| 64 | 2439.00 | -3 | 12.8 |
| 65 | 2439.05 | -3 | 12.8 |
| 66 | 2439.45 | -3 | 12.8 |
| 67 | 2439.75 | -3 | 12.8 |
| 68 | 2439.80 | -3 | 12.8 |
| 69 | 2439.85 | -3 | 12.8 |
| 70 | 2439.90 | -3 | 12.8 |
| 71 | 2439.95 | -3 | 12.8 |
| 72 | 2440.00 | -3 | 12.8 |
| 73 | 2440.05 | -3 | 12.8 |
| 74 | 2440.10 | -3 | 12.8 |
| 75 | 2440.15 | -3 | 12.8 |
| 76 | 2440.20 | -3 | 12.8 |
| 77 | 2440.40 | -3 | 12.8 |
| 78 | 2440.45 | -3 | 12.8 |
| 79 | 2440.85 | -3 | 12.8 |
| 80 | 2440.95 | -3 | 12.8 |
| 81 | 2443.40 | -3 | 12.8 |
| 82 | 2443.50 | -3 | 12.8 |
| 83 | 2443.85 | -3 | 12.8 |
| 84 | 2443.90 | -3 | 12.8 |
| 85 | 2443.95 | -3 | 12.8 |
| 86 | 2444.00 | -3 | 12.8 |
| 87 | 2444.10 | -3 | 12.8 |
| 88 | 2444.15 | -3 | 12.8 |
| 89 | 2444.30 | -3 | 12.8 |
| 90 | 2444.35 | -3 | 12.8 |
| 91 | 2444.40 | -3 | 12.8 |
| 92 | 2444.45 | -3 | 12.8 |
| 93 | 2444.65 | -3 | 12.8 |
| 94 | 2444.70 | -3 | 12.8 |
| 95 | 2444.85 | -3 | 12.8 |
| 96 | 2444.90 | -3 | 12.8 |
| 97 | 2444.95 | -3 | 12.8 |
| 98 | 2445.00 | -3 | 12.8 |
| 99 | 2445.05 | -3 | 12.8 |
| 100 | 2445.10 | -3 | 12.8 |
| 101 | 2445.15 | -3 | 12.8 |
| 102 | 2445.20 | -3 | 12.8 |
| 103 | 2445.25 | -3 | 12.8 |
| 104 | 2445.30 | -3 | 12.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 105 | 2445.35 | -3 | 12.8 |
| 106 | 2445.45 | -3 | 12.8 |
| 107 | 2445.50 | -3 | 12.8 |
| 108 | 2445.75 | -3 | 12.8 |
| 109 | 2445.80 | -3 | 12.8 |
| 110 | 2445.85 | -3 | 12.8 |
| 111 | 2446.00 | -3 | 12.8 |
| 112 | 2446.05 | -3 | 12.8 |
| 113 | 2446.10 | -3 | 12.8 |
| 114 | 2446.15 | -3 | 12.8 |
| 115 | 2446.20 | -3 | 12.8 |
| 116 | 2446.30 | -3 | 12.8 |
| 117 | 2446.35 | -3 | 12.8 |
| 118 | 2446.40 | -3 | 12.8 |
| 119 | 2446.70 | -3 | 12.8 |
| 120 | 2446.75 | -3 | 12.8 |
| 121 | 2446.80 | -3 | 12.8 |
| 122 | 2442.90 | -2.5 | 13.3 |
| 123 | 2434.50 | -2 | 13.8 |
| 124 | 2434.55 | -2 | 13.8 |
| 125 | 2434.60 | -2 | 13.8 |
| 126 | 2434.65 | -2 | 13.8 |
| 127 | 2434.70 | -2 | 13.8 |
| 128 | 2434.90 | -2 | 13.8 |
| 129 | 2434.95 | -2 | 13.8 |
| 130 | 2435.40 | -2 | 13.8 |
| 131 | 2435.45 | -2 | 13.8 |
| 132 | 2435.50 | -2 | 13.8 |
| 133 | 2435.55 | -2 | 13.8 |
| 134 | 2435.60 | -2 | 13.8 |
| 135 | 2435.80 | -2 | 13.8 |
| 136 | 2435.85 | -2 | 13.8 |
| 137 | 2435.90 | -2 | 13.8 |
| 138 | 2435.95 | -2 | 13.8 |
| 139 | 2436.00 | -2 | 13.8 |
| 140 | 2436.05 | -2 | 13.8 |
| 141 | 2436.10 | -2 | 13.8 |
| 142 | 2436.15 | -2 | 13.8 |
| 143 | 2436.20 | -2 | 13.8 |
| 144 | 2436.25 | -2 | 13.8 |
| 145 | 2436.30 | -2 | 13.8 |
| 146 | 2436.35 | -2 | 13.8 |
| 147 | 2436.40 | -2 | 13.8 |
| 148 | 2440.25 | -2 | 13.8 |
| 149 | 2440.30 | -2 | 13.8 |
| 150 | 2440.35 | -2 | 13.8 |
| 151 | 2440.50 | -2 | 13.8 |
| 152 | 2440.55 | -2 | 13.8 |
| 153 | 2440.60 | -2 | 13.8 |
| 154 | 2440.65 | -2 | 13.8 |
| 155 | 2440.70 | -2 | 13.8 |
| 156 | 2440.75 | -2 | 13.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 157 | 2440.80 | -2 | 13.8 |
| 158 | 2440.90 | -2 | 13.8 |
| 159 | 2441.00 | -2 | 13.8 |
| 160 | 2441.05 | -2 | 13.8 |
| 161 | 2441.10 | -2 | 13.8 |
| 162 | 2441.15 | -2 | 13.8 |
| 163 | 2441.25 | -2 | 13.8 |
| 164 | 2441.30 | -2 | 13.8 |
| 165 | 2441.35 | -2 | 13.8 |
| 166 | 2442.30 | -2 | 13.8 |
| 167 | 2442.40 | -2 | 13.8 |
| 168 | 2442.50 | -2 | 13.8 |
| 169 | 2442.55 | -2 | 13.8 |
| 170 | 2442.60 | -2 | 13.8 |
| 171 | 2442.85 | -2 | 13.8 |
| 172 | 2442.95 | -2 | 13.8 |
| 173 | 2443.00 | -2 | 13.8 |
| 174 | 2443.05 | -2 | 13.8 |
| 175 | 2443.10 | -2 | 13.8 |
| 176 | 2443.15 | -2 | 13.8 |
| 177 | 2443.20 | -2 | 13.8 |
| 178 | 2443.25 | -2 | 13.8 |
| 179 | 2443.30 | -2 | 13.8 |
| 180 | 2443.35 | -2 | 13.8 |
| 181 | 2443.45 | -2 | 13.8 |
| 182 | 2443.55 | -2 | 13.8 |
| 183 | 2443.60 | -2 | 13.8 |
| 184 | 2443.65 | -2 | 13.8 |
| 185 | 2443.70 | -2 | 13.8 |
| 186 | 2443.75 | -2 | 13.8 |
| 187 | 2443.80 | -2 | 13.8 |
| 188 | 2444.05 | -2 | 13.8 |
| 189 | 2444.20 | -2 | 13.8 |
| 190 | 2444.25 | -2 | 13.8 |
| 191 | 2444.50 | -2 | 13.8 |
| 192 | 2444.60 | -2 | 13.8 |
| 193 | 2444.75 | -2 | 13.8 |
| 194 | 2444.80 | -2 | 13.8 |
| 195 | 2445.40 | -2 | 13.8 |
| 196 | 2445.55 | -2 | 13.8 |
| 197 | 2445.60 | -2 | 13.8 |
| 198 | 2445.65 | -2 | 13.8 |
| 199 | 2445.70 | -2 | 13.8 |
| 200 | 2445.90 | -2 | 13.8 |
| 201 | 2445.95 | -2 | 13.8 |
| 202 | 2446.25 | -2 | 13.8 |
| 203 | 2446.45 | -2 | 13.8 |
| 204 | 2446.50 | -2 | 13.8 |
| 205 | 2446.55 | -2 | 13.8 |
| 206 | 2446.60 | -2 | 13.8 |
| 207 | 2446.65 | -2 | 13.8 |
| 208 | 2446.85 | -2 | 13.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 209 | 2446.90 | -2 | 13.8 |
| 210 | 2446.95 | -2 | 13.8 |
| 211 | 2447.00 | -2 | 13.8 |
| 212 | 2447.05 | -2 | 13.8 |
| 213 | 2447.10 | -2 | 13.8 |
| 214 | 2447.15 | -2 | 13.8 |
| 215 | 2447.20 | -2 | 13.8 |
| 216 | 2447.55 | -2 | 13.8 |
| 217 | 2447.60 | -2 | 13.8 |
| 218 | 2434.25 | -1 | 14.8 |
| 219 | 2434.30 | -1 | 14.8 |
| 220 | 2434.35 | -1 | 14.8 |
| 221 | 2434.40 | -1 | 14.8 |
| 222 | 2434.45 | -1 | 14.8 |
| 223 | 2434.75 | -1 | 14.8 |
| 224 | 2434.80 | -1 | 14.8 |
| 225 | 2434.85 | -1 | 14.8 |
| 226 | 2435.00 | -1 | 14.8 |
| 227 | 2435.05 | -1 | 14.8 |
| 228 | 2435.10 | -1 | 14.8 |
| 229 | 2435.15 | -1 | 14.8 |
| 230 | 2435.20 | -1 | 14.8 |
| 231 | 2435.25 | -1 | 14.8 |
| 232 | 2435.30 | -1 | 14.8 |
| 233 | 2435.35 | -1 | 14.8 |
| 234 | 2435.65 | -1 | 14.8 |
| 235 | 2435.70 | -1 | 14.8 |
| 236 | 2435.75 | -1 | 14.8 |
| 237 | 2441.20 | -1 | 14.8 |
| 238 | 2441.40 | -1 | 14.8 |
| 239 | 2441.45 | -1 | 14.8 |
| 240 | 2441.50 | -1 | 14.8 |
| 241 | 2441.55 | -1 | 14.8 |
| 242 | 2441.60 | -1 | 14.8 |
| 243 | 2441.65 | -1 | 14.8 |
| 244 | 2441.70 | -1 | 14.8 |
| 245 | 2441.75 | -1 | 14.8 |
| 246 | 2441.80 | -1 | 14.8 |
| 247 | 2441.85 | -1 | 14.8 |
| 248 | 2441.90 | -1 | 14.8 |
| 249 | 2442.00 | -1 | 14.8 |
| 250 | 2442.05 | -1 | 14.8 |
| 251 | 2442.10 | -1 | 14.8 |
| 252 | 2442.15 | -1 | 14.8 |
| 253 | 2442.20 | -1 | 14.8 |
| 254 | 2442.25 | -1 | 14.8 |
| 255 | 2442.35 | -1 | 14.8 |
| 256 | 2442.45 | -1 | 14.8 |
| 257 | 2442.65 | -1 | 14.8 |
| 258 | 2442.70 | -1 | 14.8 |
| 259 | 2442.75 | -1 | 14.8 |
| 260 | 2442.80 | -1 | 14.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 261 | 2444.55 | -1 | 14.8 |
| 262 | 2447.25 | -1 | 14.8 |
| 263 | 2447.30 | -1 | 14.8 |
| 264 | 2447.35 | -1 | 14.8 |
| 265 | 2447.40 | -1 | 14.8 |
| 266 | 2447.45 | -1 | 14.8 |
| 267 | 2447.50 | -1 | 14.8 |
| 268 | 2447.65 | -1 | 14.8 |
| 269 | 2447.70 | -1 | 14.8 |
| 270 | 2447.75 | -1 | 14.8 |
| 271 | 2433.50 | 0 | 15.8 |
| 272 | 2433.55 | 0 | 15.8 |
| 273 | 2433.60 | 0 | 15.8 |
| 274 | 2433.65 | 0 | 15.8 |
| 275 | 2433.70 | 0 | 15.8 |
| 276 | 2433.75 | 0 | 15.8 |
| 277 | 2433.80 | 0 | 15.8 |
| 278 | 2433.85 | 0 | 15.8 |
| 279 | 2433.90 | 0 | 15.8 |
| 280 | 2433.95 | 0 | 15.8 |
| 281 | 2434.00 | 0 | 15.8 |
| 282 | 2434.05 | 0 | 15.8 |
| 283 | 2434.10 | 0 | 15.8 |
| 284 | 2434.15 | 0 | 15.8 |
| 285 | 2434.20 | 0 | 15.8 |
| 286 | 2441.95 | 0 | 15.8 |
| 287 | 2447.80 | 0 | 15.8 |
| 288 | 2447.85 | 0 | 15.8 |
| 289 | 2447.90 | 0 | 15.8 |
| 290 | 2447.95 | 0 | 15.8 |
| 291 | 2448.00 | 0 | 15.8 |
| 292 | 2448.05 | 0 | 15.8 |
| 293 | 2448.10 | 0 | 15.8 |
| 294 | 2448.15 | 0 | 15.8 |
| 295 | 2448.20 | 0 | 15.8 |
| 296 | 2448.25 | 0 | 15.8 |
| 297 | 2448.30 | 0 | 15.8 |
| 298 | 2448.35 | 0 | 15.8 |
| 299 | 2448.45 | 0 | 15.8 |
| 300 | 2448.50 | 0 | 15.8 |
| 301 | 2432.95 | 1 | 16.8 |
| 302 | 2433.00 | 1 | 16.8 |
| 303 | 2433.05 | 1 | 16.8 |
| 304 | 2433.10 | 1 | 16.8 |
| 305 | 2433.20 | 1 | 16.8 |
| 306 | 2433.25 | 1 | 16.8 |
| 307 | 2433.30 | 1 | 16.8 |
| 308 | 2433.35 | 1 | 16.8 |
| 309 | 2433.40 | 1 | 16.8 |
| 310 | 2433.45 | 1 | 16.8 |
| 311 | 2448.40 | 1 | 16.8 |
| 312 | 2448.55 | 1 | 16.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 313 | 2448.60 | 1 | 16.8 |
| 314 | 2448.65 | 1 | 16.8 |
| 315 | 2448.70 | 1 | 16.8 |
| 316 | 2448.80 | 1 | 16.8 |
| 317 | 2431.95 | 2 | 17.8 |
| 318 | 2432.00 | 2 | 17.8 |
| 319 | 2432.05 | 2 | 17.8 |
| 320 | 2432.10 | 2 | 17.8 |
| 321 | 2432.15 | 2 | 17.8 |
| 322 | 2432.20 | 2 | 17.8 |
| 323 | 2432.25 | 2 | 17.8 |
| 324 | 2432.30 | 2 | 17.8 |
| 325 | 2432.50 | 2 | 17.8 |
| 326 | 2432.55 | 2 | 17.8 |
| 327 | 2432.60 | 2 | 17.8 |
| 328 | 2432.65 | 2 | 17.8 |
| 329 | 2432.75 | 2 | 17.8 |
| 330 | 2432.80 | 2 | 17.8 |
| 331 | 2432.85 | 2 | 17.8 |
| 332 | 2432.90 | 2 | 17.8 |
| 333 | 2433.15 | 2 | 17.8 |
| 334 | 2448.75 | 2 | 17.8 |
| 335 | 2448.85 | 2 | 17.8 |
| 336 | 2448.90 | 2 | 17.8 |
| 337 | 2448.95 | 2 | 17.8 |
| 338 | 2449.00 | 2 | 17.8 |
| 339 | 2449.05 | 2 | 17.8 |
| 340 | 2431.80 | 3 | 18.8 |
| 341 | 2431.85 | 3 | 18.8 |
| 342 | 2431.90 | 3 | 18.8 |
| 343 | 2432.35 | 3 | 18.8 |
| 344 | 2432.40 | 3 | 18.8 |
| 345 | 2432.45 | 3 | 18.8 |
| 346 | 2432.70 | 3 | 18.8 |
| 347 | 2449.10 | 3 | 18.8 |
| 348 | 2449.15 | 3 | 18.8 |
| 349 | 2449.20 | 3 | 18.8 |
| 350 | 2449.25 | 3 | 18.8 |
| 351 | 2449.35 | 3 | 18.8 |
| 352 | 2449.40 | 3 | 18.8 |
| 353 | 2431.70 | 4 | 19.8 |
| 354 | 2431.75 | 4 | 19.8 |
| 355 | 2449.30 | 4 | 19.8 |
| 356 | 2449.45 | 4 | 19.8 |
| 357 | 2449.50 | 4 | 19.8 |
| 358 | 2449.55 | 4 | 19.8 |
| 359 | 2449.60 | 4 | 19.8 |
| 360 | 2449.65 | 4 | 19.8 |
| 361 | 2449.70 | 4 | 19.8 |
| 362 | 2449.75 | 4 | 19.8 |
| 363 | 2449.80 | 4 | 19.8 |
| 364 | 2449.85 | 4 | 19.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 365 | 2449.90 | 4 | 19.8 |
| 366 | 2449.95 | 4 | 19.8 |
| 367 | 2430.40 | 5 | 20.8 |
| 368 | 2430.45 | 5 | 20.8 |
| 369 | 2430.50 | 5 | 20.8 |
| 370 | 2430.60 | 5 | 20.8 |
| 371 | 2430.65 | 5 | 20.8 |
| 372 | 2430.70 | 5 | 20.8 |
| 373 | 2430.75 | 5 | 20.8 |
| 374 | 2430.80 | 5 | 20.8 |
| 375 | 2430.85 | 5 | 20.8 |
| 376 | 2430.90 | 5 | 20.8 |
| 377 | 2430.95 | 5 | 20.8 |
| 378 | 2431.15 | 5 | 20.8 |
| 379 | 2431.20 | 5 | 20.8 |
| 380 | 2431.25 | 5 | 20.8 |
| 381 | 2431.30 | 5 | 20.8 |
| 382 | 2431.35 | 5 | 20.8 |
| 383 | 2431.40 | 5 | 20.8 |
| 384 | 2431.45 | 5 | 20.8 |
| 385 | 2431.50 | 5 | 20.8 |
| 386 | 2431.60 | 5 | 20.8 |
| 387 | 2431.65 | 5 | 20.8 |
| 388 | 2450.00 | 5 | 20.8 |
| 389 | 2450.10 | 5 | 20.8 |
| 390 | 2450.15 | 5 | 20.8 |
| 391 | 2450.20 | 5 | 20.8 |
| 392 | 2450.25 | 5 | 20.8 |
| 393 | 2450.30 | 5 | 20.8 |
| 394 | 2450.35 | 5 | 20.8 |
| 395 | 2450.40 | 5 | 20.8 |
| 396 | 2429.95 | 6 | 21.8 |
| 397 | 2430.00 | 6 | 21.8 |
| 398 | 2430.05 | 6 | 21.8 |
| 399 | 2430.10 | 6 | 21.8 |
| 400 | 2430.15 | 6 | 21.8 |
| 401 | 2430.20 | 6 | 21.8 |
| 402 | 2430.25 | 6 | 21.8 |
| 403 | 2430.30 | 6 | 21.8 |
| 404 | 2430.35 | 6 | 21.8 |
| 405 | 2430.55 | 6 | 21.8 |
| 406 | 2431.00 | 6 | 21.8 |
| 407 | 2431.05 | 6 | 21.8 |
| 408 | 2431.10 | 6 | 21.8 |
| 409 | 2431.55 | 6 | 21.8 |
| 410 | 2450.05 | 6 | 21.8 |
| 411 | 2450.45 | 6 | 21.8 |
| 412 | 2429.90 | 7 | 22.8 |
| 413 | 2450.50 | 7 | 22.8 |
| 414 | 2450.55 | 7 | 22.8 |
| 415 | 2450.65 | 7 | 22.8 |
| 416 | 2450.70 | 7 | 22.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 417 | 2429.65 | 8 | 23.8 |
| 418 | 2429.70 | 8 | 23.8 |
| 419 | 2429.75 | 8 | 23.8 |
| 420 | 2429.80 | 8 | 23.8 |
| 421 | 2429.85 | 8 | 23.8 |
| 422 | 2450.60 | 8 | 23.8 |
| 423 | 2450.75 | 8 | 23.8 |
| 424 | 2450.80 | 8 | 23.8 |
| 425 | 2450.85 | 8 | 23.8 |
| 426 | 2450.90 | 8 | 23.8 |
| 427 | 2429.00 | 9 | 24.8 |
| 428 | 2429.05 | 9 | 24.8 |
| 429 | 2429.10 | 9 | 24.8 |
| 430 | 2429.15 | 9 | 24.8 |
| 431 | 2429.20 | 9 | 24.8 |
| 432 | 2429.25 | 9 | 24.8 |
| 433 | 2429.30 | 9 | 24.8 |
| 434 | 2429.35 | 9 | 24.8 |
| 435 | 2429.40 | 9 | 24.8 |
| 436 | 2429.45 | 9 | 24.8 |
| 437 | 2429.50 | 9 | 24.8 |
| 438 | 2429.55 | 9 | 24.8 |
| 439 | 2429.60 | 9 | 24.8 |
| 440 | 2450.95 | 9 | 24.8 |
| 441 | 2451.00 | 9 | 24.8 |
| 442 | 2451.05 | 9 | 24.8 |
| 443 | 2451.10 | 9 | 24.8 |
| 444 | 2451.20 | 9 | 24.8 |
| 445 | 2451.25 | 9 | 24.8 |
| 446 | 2451.30 | 9 | 24.8 |
| 447 | 2451.40 | 9 | 24.8 |
| 448 | 2428.70 | 10 | 25.8 |
| 449 | 2428.75 | 10 | 25.8 |
| 450 | 2428.80 | 10 | 25.8 |
| 451 | 2428.85 | 10 | 25.8 |
| 452 | 2428.90 | 10 | 25.8 |
| 453 | 2428.95 | 10 | 25.8 |
| 454 | 2451.15 | 10 | 25.8 |
| 455 | 2451.35 | 10 | 25.8 |
| 456 | 2451.45 | 10 | 25.8 |
| 457 | 2451.50 | 10 | 25.8 |
| 458 | 2451.55 | 11 | 26.8 |
| 459 | 2451.60 | 11 | 26.8 |
| 460 | 2451.65 | 11 | 26.8 |
| 461 | 2451.70 | 11 | 26.8 |
| 462 | 2451.75 | 11 | 26.8 |
| 463 | 2451.80 | 11 | 26.8 |
| 464 | 2451.85 | 12 | 27.8 |
| 465 | 2451.90 | 12 | 27.8 |
| 466 | 2451.95 | 12 | 27.8 |
| 467 | 2452.00 | 12 | 27.8 |
| 468 | 2452.05 | 13 | 28.8 |

# PROCESSING GAIN TEST, SORTED BY Mj J/S Ratio

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 469 | 2452.10 | 13 | 28.8 |
| 470 | 2452.15 | 13 | 28.8 |
| 471 | 2452.20 | 13 | 28.8 |
| 472 | 2452.25 | 13 | 28.8 |
| 473 | 2452.30 | 14 | 29.8 |
| 474 | 2452.35 | 14 | 29.8 |
| 475 | 2452.40 | 15 | 30.8 |
| 476 | 2452.45 | 15 | 30.8 |
| 477 | 2452.50 | 15 | 30.8 |
| 478 | 2452.55 | 16 | 31.8 |
| 479 | 2452.60 | 16 | 31.8 |
| 480 | 2452.65 | 16 | 31.8 |
| 481 | 2452.70 | 16 | 31.8 |
| 482 | 2452.75 | 16 | 31.8 |
| 483 | 2452.80 | 17 | 32.8 |
| 484 | 2452.85 | 17 | 32.8 |
| 485 | 2452.90 | 17 | 32.8 |
| 486 | 2452.95 | 17 | 32.8 |
| 487 | 2453.00 | 18 | 33.8 |
| 488 | 2453.05 | 18 | 33.8 |
| 489 | 2453.10 | 18 | 33.8 |
| 490 | 2453.15 | 18 | 33.8 |
| 491 | 2453.20 | 19 | 34.8 |
| 492 | 2453.25 | 20 | 35.8 |
| 493 | 2453.30 | 20 | 35.8 |
| 494 | 2453.35 | 20 | 35.8 |
| 495 | 2453.40 | 20 | 35.8 |
| 496 | 2453.45 | 21 | 36.8 |
| 497 | 2453.50 | 21 | 36.8 |
| 498 | 2453.55 | 21 | 36.8 |
| 499 | 2453.60 | 21 | 36.8 |
| 500 | 2453.65 | 22 | 37.8 |
| 501 | 2453.70 | 23 | 38.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 1 | 2428.70 | 10 | 25.8 |
| 2 | 2428.75 | 10 | 25.8 |
| 3 | 2428.80 | 10 | 25.8 |
| 4 | 2428.85 | 10 | 25.8 |
| 5 | 2428.90 | 10 | 25.8 |
| 6 | 2428.95 | 10 | 25.8 |
| 7 | 2429.00 | 9 | 24.8 |
| 8 | 2429.05 | 9 | 24.8 |
| 9 | 2429.10 | 9 | 24.8 |
| 10 | 2429.15 | 9 | 24.8 |
| 11 | 2429.20 | 9 | 24.8 |
| 12 | 2429.25 | 9 | 24.8 |
| 13 | 2429.30 | 9 | 24.8 |
| 14 | 2429.35 | 9 | 24.8 |
| 15 | 2429.40 | 9 | 24.8 |
| 16 | 2429.45 | 9 | 24.8 |
| 17 | 2429.50 | 9 | 24.8 |
| 18 | 2429.55 | 9 | 24.8 |
| 19 | 2429.60 | 9 | 24.8 |
| 20 | 2429.65 | 8 | 23.8 |
| 21 | 2429.70 | 8 | 23.8 |
| 22 | 2429.75 | 8 | 23.8 |
| 23 | 2429.80 | 8 | 23.8 |
| 24 | 2429.85 | 8 | 23.8 |
| 25 | 2429.90 | 7 | 22.8 |
| 26 | 2429.95 | 6 | 21.8 |
| 27 | 2430.00 | 6 | 21.8 |
| 28 | 2430.05 | 6 | 21.8 |
| 29 | 2430.10 | 6 | 21.8 |
| 30 | 2430.15 | 6 | 21.8 |
| 31 | 2430.20 | 6 | 21.8 |
| 32 | 2430.25 | 6 | 21.8 |
| 33 | 2430.30 | 6 | 21.8 |
| 34 | 2430.35 | 6 | 21.8 |
| 35 | 2430.40 | 5 | 20.8 |
| 36 | 2430.45 | 5 | 20.8 |
| 37 | 2430.50 | 5 | 20.8 |
| 38 | 2430.55 | 6 | 21.8 |
| 39 | 2430.60 | 5 | 20.8 |
| 40 | 2430.65 | 5 | 20.8 |
| 41 | 2430.70 | 5 | 20.8 |
| 42 | 2430.75 | 5 | 20.8 |
| 43 | 2430.80 | 5 | 20.8 |
| 44 | 2430.85 | 5 | 20.8 |
| 45 | 2430.90 | 5 | 20.8 |
| 46 | 2430.95 | 5 | 20.8 |
| 47 | 2431.00 | 6 | 21.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 48 | 2431.05 | 6 | 21.8 |
| 49 | 2431.10 | 6 | 21.8 |
| 50 | 2431.15 | 5 | 20.8 |
| 51 | 2431.20 | 5 | 20.8 |
| 52 | 2431.25 | 5 | 20.8 |
| 53 | 2431.30 | 5 | 20.8 |
| 54 | 2431.35 | 5 | 20.8 |
| 55 | 2431.40 | 5 | 20.8 |
| 56 | 2431.45 | 5 | 20.8 |
| 57 | 2431.50 | 5 | 20.8 |
| 58 | 2431.55 | 6 | 21.8 |
| 59 | 2431.60 | 5 | 20.8 |
| 60 | 2431.65 | 5 | 20.8 |
| 61 | 2431.70 | 4 | 19.8 |
| 62 | 2431.75 | 4 | 19.8 |
| 63 | 2431.80 | 3 | 18.8 |
| 64 | 2431.85 | 3 | 18.8 |
| 65 | 2431.90 | 3 | 18.8 |
| 66 | 2431.95 | 2 | 17.8 |
| 67 | 2432.00 | 2 | 17.8 |
| 68 | 2432.05 | 2 | 17.8 |
| 69 | 2432.10 | 2 | 17.8 |
| 70 | 2432.15 | 2 | 17.8 |
| 71 | 2432.20 | 2 | 17.8 |
| 72 | 2432.25 | 2 | 17.8 |
| 73 | 2432.30 | 2 | 17.8 |
| 74 | 2432.35 | 3 | 18.8 |
| 75 | 2432.40 | 3 | 18.8 |
| 76 | 2432.45 | 3 | 18.8 |
| 77 | 2432.50 | 2 | 17.8 |
| 78 | 2432.55 | 2 | 17.8 |
| 79 | 2432.60 | 2 | 17.8 |
| 80 | 2432.65 | 2 | 17.8 |
| 81 | 2432.70 | 3 | 18.8 |
| 82 | 2432.75 | 2 | 17.8 |
| 83 | 2432.80 | 2 | 17.8 |
| 84 | 2432.85 | 2 | 17.8 |
| 85 | 2432.90 | 2 | 17.8 |
| 86 | 2432.95 | 1 | 16.8 |
| 87 | 2433.00 | 1 | 16.8 |
| 88 | 2433.05 | 1 | 16.8 |
| 89 | 2433.10 | 1 | 16.8 |
| 90 | 2433.15 | 2 | 17.8 |
| 91 | 2433.20 | 1 | 16.8 |
| 92 | 2433.25 | 1 | 16.8 |
| 93 | 2433.30 | 1 | 16.8 |
| 94 | 2433.35 | 1 | 16.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 95 | 2433.40 | 1 | 16.8 |
| 96 | 2433.45 | 1 | 16.8 |
| 97 | 2433.50 | 0 | 15.8 |
| 98 | 2433.55 | 0 | 15.8 |
| 99 | 2433.60 | 0 | 15.8 |
| 100 | 2433.65 | 0 | 15.8 |
| 101 | 2433.70 | 0 | 15.8 |
| 102 | 2433.75 | 0 | 15.8 |
| 103 | 2433.80 | 0 | 15.8 |
| 104 | 2433.85 | 0 | 15.8 |
| 105 | 2433.90 | 0 | 15.8 |
| 106 | 2433.95 | 0 | 15.8 |
| 107 | 2434.00 | 0 | 15.8 |
| 108 | 2434.05 | 0 | 15.8 |
| 109 | 2434.10 | 0 | 15.8 |
| 110 | 2434.15 | 0 | 15.8 |
| 111 | 2434.20 | 0 | 15.8 |
| 112 | 2434.25 | -1 | 14.8 |
| 113 | 2434.30 | -1 | 14.8 |
| 114 | 2434.35 | -1 | 14.8 |
| 115 | 2434.40 | -1 | 14.8 |
| 116 | 2434.45 | -1 | 14.8 |
| 117 | 2434.50 | -2 | 13.8 |
| 118 | 2434.55 | -2 | 13.8 |
| 119 | 2434.60 | -2 | 13.8 |
| 120 | 2434.65 | -2 | 13.8 |
| 121 | 2434.70 | -2 | 13.8 |
| 122 | 2434.75 | -1 | 14.8 |
| 123 | 2434.80 | -1 | 14.8 |
| 124 | 2434.85 | -1 | 14.8 |
| 125 | 2434.90 | -2 | 13.8 |
| 126 | 2434.95 | -2 | 13.8 |
| 127 | 2435.00 | -1 | 14.8 |
| 128 | 2435.05 | -1 | 14.8 |
| 129 | 2435.10 | -1 | 14.8 |
| 130 | 2435.15 | -1 | 14.8 |
| 131 | 2435.20 | -1 | 14.8 |
| 132 | 2435.25 | -1 | 14.8 |
| 133 | 2435.30 | -1 | 14.8 |
| 134 | 2435.35 | -1 | 14.8 |
| 135 | 2435.40 | -2 | 13.8 |
| 136 | 2435.45 | -2 | 13.8 |
| 137 | 2435.50 | -2 | 13.8 |
| 138 | 2435.55 | -2 | 13.8 |
| 139 | 2435.60 | -2 | 13.8 |
| 140 | 2435.65 | -1 | 14.8 |
| 141 | 2435.70 | -1 | 14.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 142 | 2435.75 | -1 | 14.8 |
| 143 | 2435.80 | -2 | 13.8 |
| 144 | 2435.85 | -2 | 13.8 |
| 145 | 2435.90 | -2 | 13.8 |
| 146 | 2435.95 | -2 | 13.8 |
| 147 | 2436.00 | -2 | 13.8 |
| 148 | 2436.05 | -2 | 13.8 |
| 149 | 2436.10 | -2 | 13.8 |
| 150 | 2436.15 | -2 | 13.8 |
| 151 | 2436.20 | -2 | 13.8 |
| 152 | 2436.25 | -2 | 13.8 |
| 153 | 2436.30 | -2 | 13.8 |
| 154 | 2436.35 | -2 | 13.8 |
| 155 | 2436.40 | -2 | 13.8 |
| 156 | 2436.45 | -3 | 12.8 |
| 157 | 2436.50 | -3 | 12.8 |
| 158 | 2436.55 | -3 | 12.8 |
| 159 | 2436.60 | -3 | 12.8 |
| 160 | 2436.65 | -3 | 12.8 |
| 161 | 2436.70 | -3 | 12.8 |
| 162 | 2436.75 | -3 | 12.8 |
| 163 | 2436.80 | -3 | 12.8 |
| 164 | 2436.85 | -3 | 12.8 |
| 165 | 2436.90 | -3 | 12.8 |
| 166 | 2436.95 | -3 | 12.8 |
| 167 | 2437.00 | -3 | 12.8 |
| 168 | 2437.05 | -3 | 12.8 |
| 169 | 2437.10 | -3 | 12.8 |
| 170 | 2437.15 | -3 | 12.8 |
| 171 | 2437.20 | -3 | 12.8 |
| 172 | 2437.25 | -3 | 12.8 |
| 173 | 2437.30 | -3 | 12.8 |
| 174 | 2437.35 | -3 | 12.8 |
| 175 | 2437.40 | -3 | 12.8 |
| 176 | 2437.45 | -3 | 12.8 |
| 177 | 2437.50 | -3 | 12.8 |
| 178 | 2437.55 | -3 | 12.8 |
| 179 | 2437.60 | -3 | 12.8 |
| 180 | 2437.65 | -3 | 12.8 |
| 181 | 2437.70 | -3 | 12.8 |
| 182 | 2437.75 | -3 | 12.8 |
| 183 | 2437.80 | -3 | 12.8 |
| 184 | 2437.85 | -3 | 12.8 |
| 185 | 2437.90 | -3 | 12.8 |
| 186 | 2437.95 | -3 | 12.8 |
| 187 | 2438.00 | -3 | 12.8 |
| 188 | 2438.05 | -3 | 12.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 189 | 2438.10 | -3 | 12.8 |
| 190 | 2438.15 | -3 | 12.8 |
| 191 | 2438.20 | -3 | 12.8 |
| 192 | 2438.25 | -3 | 12.8 |
| 193 | 2438.30 | -3 | 12.8 |
| 194 | 2438.35 | -4 | 11.8 |
| 195 | 2438.40 | -4 | 11.8 |
| 196 | 2438.45 | -4 | 11.8 |
| 197 | 2438.50 | -3 | 12.8 |
| 198 | 2438.55 | -3 | 12.8 |
| 199 | 2438.60 | -3 | 12.8 |
| 200 | 2438.65 | -3 | 12.8 |
| 201 | 2438.70 | -3 | 12.8 |
| 202 | 2438.75 | -3 | 12.8 |
| 203 | 2438.80 | -3 | 12.8 |
| 204 | 2438.85 | -3 | 12.8 |
| 205 | 2438.90 | -3 | 12.8 |
| 206 | 2438.95 | -3 | 12.8 |
| 207 | 2439.00 | -3 | 12.8 |
| 208 | 2439.05 | -3 | 12.8 |
| 209 | 2439.10 | -4 | 11.8 |
| 210 | 2439.15 | -4 | 11.8 |
| 211 | 2439.20 | -4 | 11.8 |
| 212 | 2439.25 | -4 | 11.8 |
| 213 | 2439.30 | -4 | 11.8 |
| 214 | 2439.35 | -4 | 11.8 |
| 215 | 2439.40 | -4 | 11.8 |
| 216 | 2439.45 | -3 | 12.8 |
| 217 | 2439.50 | -4 | 11.8 |
| 218 | 2439.55 | -4 | 11.8 |
| 219 | 2439.60 | -4 | 11.8 |
| 220 | 2439.65 | -4 | 11.8 |
| 221 | 2439.70 | -4 | 11.8 |
| 222 | 2439.75 | -3 | 12.8 |
| 223 | 2439.80 | -3 | 12.8 |
| 224 | 2439.85 | -3 | 12.8 |
| 225 | 2439.90 | -3 | 12.8 |
| 226 | 2439.95 | -3 | 12.8 |
| 227 | 2440.00 | -3 | 12.8 |
| 228 | 2440.05 | -3 | 12.8 |
| 229 | 2440.10 | -3 | 12.8 |
| 230 | 2440.15 | -3 | 12.8 |
| 231 | 2440.20 | -3 | 12.8 |
| 232 | 2440.25 | -2 | 13.8 |
| 233 | 2440.30 | -2 | 13.8 |
| 234 | 2440.35 | -2 | 13.8 |
| 235 | 2440.40 | -3 | 12.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 236 | 2440.45 | -3 | 12.8 |
| 237 | 2440.50 | -2 | 13.8 |
| 238 | 2440.55 | -2 | 13.8 |
| 239 | 2440.60 | -2 | 13.8 |
| 240 | 2440.65 | -2 | 13.8 |
| 241 | 2440.70 | -2 | 13.8 |
| 242 | 2440.75 | -2 | 13.8 |
| 243 | 2440.80 | -2 | 13.8 |
| 244 | 2440.85 | -3 | 12.8 |
| 245 | 2440.90 | -2 | 13.8 |
| 246 | 2440.95 | -3 | 12.8 |
| 247 | 2441.00 | -2 | 13.8 |
| 248 | 2441.05 | -2 | 13.8 |
| 249 | 2441.10 | -2 | 13.8 |
| 250 | 2441.15 | -2 | 13.8 |
| 251 | 2441.20 | -1 | 14.8 |
| 252 | 2441.25 | -2 | 13.8 |
| 253 | 2441.30 | -2 | 13.8 |
| 254 | 2441.35 | -2 | 13.8 |
| 255 | 2441.40 | -1 | 14.8 |
| 256 | 2441.45 | -1 | 14.8 |
| 257 | 2441.50 | -1 | 14.8 |
| 258 | 2441.55 | -1 | 14.8 |
| 259 | 2441.60 | -1 | 14.8 |
| 260 | 2441.65 | -1 | 14.8 |
| 261 | 2441.70 | -1 | 14.8 |
| 262 | 2441.75 | -1 | 14.8 |
| 263 | 2441.80 | -1 | 14.8 |
| 264 | 2441.85 | -1 | 14.8 |
| 265 | 2441.90 | -1 | 14.8 |
| 266 | 2441.95 | 0 | 15.8 |
| 267 | 2442.00 | -1 | 14.8 |
| 268 | 2442.05 | -1 | 14.8 |
| 269 | 2442.10 | -1 | 14.8 |
| 270 | 2442.15 | -1 | 14.8 |
| 271 | 2442.20 | -1 | 14.8 |
| 272 | 2442.25 | -1 | 14.8 |
| 273 | 2442.30 | -2 | 13.8 |
| 274 | 2442.35 | -1 | 14.8 |
| 275 | 2442.40 | -2 | 13.8 |
| 276 | 2442.45 | -1 | 14.8 |
| 277 | 2442.50 | -2 | 13.8 |
| 278 | 2442.55 | -2 | 13.8 |
| 279 | 2442.60 | -2 | 13.8 |
| 280 | 2442.65 | -1 | 14.8 |
| 281 | 2442.70 | -1 | 14.8 |
| 282 | 2442.75 | -1 | 14.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 283 | 2442.80 | -1 | 14.8 |
| 284 | 2442.85 | -2 | 13.8 |
| 285 | 2442.90 | -2.5 | 13.3 |
| 286 | 2442.95 | -2 | 13.8 |
| 287 | 2443.00 | -2 | 13.8 |
| 288 | 2443.05 | -2 | 13.8 |
| 289 | 2443.10 | -2 | 13.8 |
| 290 | 2443.15 | -2 | 13.8 |
| 291 | 2443.20 | -2 | 13.8 |
| 292 | 2443.25 | -2 | 13.8 |
| 293 | 2443.30 | -2 | 13.8 |
| 294 | 2443.35 | -2 | 13.8 |
| 295 | 2443.40 | -3 | 12.8 |
| 296 | 2443.45 | -2 | 13.8 |
| 297 | 2443.50 | -3 | 12.8 |
| 298 | 2443.55 | -2 | 13.8 |
| 299 | 2443.60 | -2 | 13.8 |
| 300 | 2443.65 | -2 | 13.8 |
| 301 | 2443.70 | -2 | 13.8 |
| 302 | 2443.75 | -2 | 13.8 |
| 303 | 2443.80 | -2 | 13.8 |
| 304 | 2443.85 | -3 | 12.8 |
| 305 | 2443.90 | -3 | 12.8 |
| 306 | 2443.95 | -3 | 12.8 |
| 307 | 2444.00 | -3 | 12.8 |
| 308 | 2444.05 | -2 | 13.8 |
| 309 | 2444.10 | -3 | 12.8 |
| 310 | 2444.15 | -3 | 12.8 |
| 311 | 2444.20 | -2 | 13.8 |
| 312 | 2444.25 | -2 | 13.8 |
| 313 | 2444.30 | -3 | 12.8 |
| 314 | 2444.35 | -3 | 12.8 |
| 315 | 2444.40 | -3 | 12.8 |
| 316 | 2444.45 | -3 | 12.8 |
| 317 | 2444.50 | -2 | 13.8 |
| 318 | 2444.55 | -1 | 14.8 |
| 319 | 2444.60 | -2 | 13.8 |
| 320 | 2444.65 | -3 | 12.8 |
| 321 | 2444.70 | -3 | 12.8 |
| 322 | 2444.75 | -2 | 13.8 |
| 323 | 2444.80 | -2 | 13.8 |
| 324 | 2444.85 | -3 | 12.8 |
| 325 | 2444.90 | -3 | 12.8 |
| 326 | 2444.95 | -3 | 12.8 |
| 327 | 2445.00 | -3 | 12.8 |
| 328 | 2445.05 | -3 | 12.8 |
| 329 | 2445.10 | -3 | 12.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 330 | 2445.15 | -3 | 12.8 |
| 331 | 2445.20 | -3 | 12.8 |
| 332 | 2445.25 | -3 | 12.8 |
| 333 | 2445.30 | -3 | 12.8 |
| 334 | 2445.35 | -3 | 12.8 |
| 335 | 2445.40 | -2 | 13.8 |
| 336 | 2445.45 | -3 | 12.8 |
| 337 | 2445.50 | -3 | 12.8 |
| 338 | 2445.55 | -2 | 13.8 |
| 339 | 2445.60 | -2 | 13.8 |
| 340 | 2445.65 | -2 | 13.8 |
| 341 | 2445.70 | -2 | 13.8 |
| 342 | 2445.75 | -3 | 12.8 |
| 343 | 2445.80 | -3 | 12.8 |
| 344 | 2445.85 | -3 | 12.8 |
| 345 | 2445.90 | -2 | 13.8 |
| 346 | 2445.95 | -2 | 13.8 |
| 347 | 2446.00 | -3 | 12.8 |
| 348 | 2446.05 | -3 | 12.8 |
| 349 | 2446.10 | -3 | 12.8 |
| 350 | 2446.15 | -3 | 12.8 |
| 351 | 2446.20 | -3 | 12.8 |
| 352 | 2446.25 | -2 | 13.8 |
| 353 | 2446.30 | -3 | 12.8 |
| 354 | 2446.35 | -3 | 12.8 |
| 355 | 2446.40 | -3 | 12.8 |
| 356 | 2446.45 | -2 | 13.8 |
| 357 | 2446.50 | -2 | 13.8 |
| 358 | 2446.55 | -2 | 13.8 |
| 359 | 2446.60 | -2 | 13.8 |
| 360 | 2446.65 | -2 | 13.8 |
| 361 | 2446.70 | -3 | 12.8 |
| 362 | 2446.75 | -3 | 12.8 |
| 363 | 2446.80 | -3 | 12.8 |
| 364 | 2446.85 | -2 | 13.8 |
| 365 | 2446.90 | -2 | 13.8 |
| 366 | 2446.95 | -2 | 13.8 |
| 367 | 2447.00 | -2 | 13.8 |
| 368 | 2447.05 | -2 | 13.8 |
| 369 | 2447.10 | -2 | 13.8 |
| 370 | 2447.15 | -2 | 13.8 |
| 371 | 2447.20 | -2 | 13.8 |
| 372 | 2447.25 | -1 | 14.8 |
| 373 | 2447.30 | -1 | 14.8 |
| 374 | 2447.35 | -1 | 14.8 |
| 375 | 2447.40 | -1 | 14.8 |
| 376 | 2447.45 | -1 | 14.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 377 | 2447.50 | -1 | 14.8 |
| 378 | 2447.55 | -2 | 13.8 |
| 379 | 2447.60 | -2 | 13.8 |
| 380 | 2447.65 | -1 | 14.8 |
| 381 | 2447.70 | -1 | 14.8 |
| 382 | 2447.75 | -1 | 14.8 |
| 383 | 2447.80 | 0 | 15.8 |
| 384 | 2447.85 | 0 | 15.8 |
| 385 | 2447.90 | 0 | 15.8 |
| 386 | 2447.95 | 0 | 15.8 |
| 387 | 2448.00 | 0 | 15.8 |
| 388 | 2448.05 | 0 | 15.8 |
| 389 | 2448.10 | 0 | 15.8 |
| 390 | 2448.15 | 0 | 15.8 |
| 391 | 2448.20 | 0 | 15.8 |
| 392 | 2448.25 | 0 | 15.8 |
| 393 | 2448.30 | 0 | 15.8 |
| 394 | 2448.35 | 0 | 15.8 |
| 395 | 2448.40 | 1 | 16.8 |
| 396 | 2448.45 | 0 | 15.8 |
| 397 | 2448.50 | 0 | 15.8 |
| 398 | 2448.55 | 1 | 16.8 |
| 399 | 2448.60 | 1 | 16.8 |
| 400 | 2448.65 | 1 | 16.8 |
| 401 | 2448.70 | 1 | 16.8 |
| 402 | 2448.75 | 2 | 17.8 |
| 403 | 2448.80 | 1 | 16.8 |
| 404 | 2448.85 | 2 | 17.8 |
| 405 | 2448.90 | 2 | 17.8 |
| 406 | 2448.95 | 2 | 17.8 |
| 407 | 2449.00 | 2 | 17.8 |
| 408 | 2449.05 | 2 | 17.8 |
| 409 | 2449.10 | 3 | 18.8 |
| 410 | 2449.15 | 3 | 18.8 |
| 411 | 2449.20 | 3 | 18.8 |
| 412 | 2449.25 | 3 | 18.8 |
| 413 | 2449.30 | 4 | 19.8 |
| 414 | 2449.35 | 3 | 18.8 |
| 415 | 2449.40 | 3 | 18.8 |
| 416 | 2449.45 | 4 | 19.8 |
| 417 | 2449.50 | 4 | 19.8 |
| 418 | 2449.55 | 4 | 19.8 |
| 419 | 2449.60 | 4 | 19.8 |
| 420 | 2449.65 | 4 | 19.8 |
| 421 | 2449.70 | 4 | 19.8 |
| 422 | 2449.75 | 4 | 19.8 |
| 423 | 2449.80 | 4 | 19.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 424 | 2449.85 | 4 | 19.8 |
| 425 | 2449.90 | 4 | 19.8 |
| 426 | 2449.95 | 4 | 19.8 |
| 427 | 2450.00 | 5 | 20.8 |
| 428 | 2450.05 | 6 | 21.8 |
| 429 | 2450.10 | 5 | 20.8 |
| 430 | 2450.15 | 5 | 20.8 |
| 431 | 2450.20 | 5 | 20.8 |
| 432 | 2450.25 | 5 | 20.8 |
| 433 | 2450.30 | 5 | 20.8 |
| 434 | 2450.35 | 5 | 20.8 |
| 435 | 2450.40 | 5 | 20.8 |
| 436 | 2450.45 | 6 | 21.8 |
| 437 | 2450.50 | 7 | 22.8 |
| 438 | 2450.55 | 7 | 22.8 |
| 439 | 2450.60 | 8 | 23.8 |
| 440 | 2450.65 | 7 | 22.8 |
| 441 | 2450.70 | 7 | 22.8 |
| 442 | 2450.75 | 8 | 23.8 |
| 443 | 2450.80 | 8 | 23.8 |
| 444 | 2450.85 | 8 | 23.8 |
| 445 | 2450.90 | 8 | 23.8 |
| 446 | 2450.95 | 9 | 24.8 |
| 447 | 2451.00 | 9 | 24.8 |
| 448 | 2451.05 | 9 | 24.8 |
| 449 | 2451.10 | 9 | 24.8 |
| 450 | 2451.15 | 10 | 25.8 |
| 451 | 2451.20 | 9 | 24.8 |
| 452 | 2451.25 | 9 | 24.8 |
| 453 | 2451.30 | 9 | 24.8 |
| 454 | 2451.35 | 10 | 25.8 |
| 455 | 2451.40 | 9 | 24.8 |
| 456 | 2451.45 | 10 | 25.8 |
| 457 | 2451.50 | 10 | 25.8 |
| 458 | 2451.55 | 11 | 26.8 |
| 459 | 2451.60 | 11 | 26.8 |
| 460 | 2451.65 | 11 | 26.8 |
| 461 | 2451.70 | 11 | 26.8 |
| 462 | 2451.75 | 11 | 26.8 |
| 463 | 2451.80 | 11 | 26.8 |
| 464 | 2451.85 | 12 | 27.8 |
| 465 | 2451.90 | 12 | 27.8 |
| 466 | 2451.95 | 12 | 27.8 |
| 467 | 2452.00 | 12 | 27.8 |
| 468 | 2452.05 | 13 | 28.8 |
| 469 | 2452.10 | 13 | 28.8 |
| 470 | 2452.15 | 13 | 28.8 |

# PROCESSING GAIN TEST, IN FREQUENCY ORDER

| Line no. | Frequency | Mj J/S Ratio | Processing Gain |
|---|---|---|---|
| 471 | 2452.20 | 13 | 28.8 |
| 472 | 2452.25 | 13 | 28.8 |
| 473 | 2452.30 | 14 | 29.8 |
| 474 | 2452.35 | 14 | 29.8 |
| 475 | 2452.40 | 15 | 30.8 |
| 476 | 2452.45 | 15 | 30.8 |
| 477 | 2452.50 | 15 | 30.8 |
| 478 | 2452.55 | 16 | 31.8 |
| 479 | 2452.60 | 16 | 31.8 |
| 480 | 2452.65 | 16 | 31.8 |
| 481 | 2452.70 | 16 | 31.8 |
| 482 | 2452.75 | 16 | 31.8 |
| 483 | 2452.80 | 17 | 32.8 |
| 484 | 2452.85 | 17 | 32.8 |
| 485 | 2452.90 | 17 | 32.8 |
| 486 | 2452.95 | 17 | 32.8 |
| 487 | 2453.00 | 18 | 33.8 |
| 488 | 2453.05 | 18 | 33.8 |
| 489 | 2453.10 | 18 | 33.8 |
| 490 | 2453.15 | 18 | 33.8 |
| 491 | 2453.20 | 19 | 34.8 |
| 492 | 2453.25 | 20 | 35.8 |
| 493 | 2453.30 | 20 | 35.8 |
| 494 | 2453.35 | 20 | 35.8 |
| 495 | 2453.40 | 20 | 35.8 |
| 496 | 2453.45 | 21 | 36.8 |
| 497 | 2453.50 | 21 | 36.8 |
| 498 | 2453.55 | 21 | 36.8 |
| 499 | 2453.60 | 21 | 36.8 |
| 500 | 2453.65 | 22 | 37.8 |
| 501 | 2453.70 | 23 | 38.8 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2441.20 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.40 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.50 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.55 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.60 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.80 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.85 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.90 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2441.95 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2442.00 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.05 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.10 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.15 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2442.20 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.80 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2442.85 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2442.90 | -9.30 | -31.30 | -33.80 | -2.50 | 13.30 |
| 2442.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2443.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.45 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2444.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.55 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2444.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2443.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.45 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2443.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2443.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2444.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.55 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2444.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2444.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2444.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2445.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.25 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2445.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2445.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2446.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.45 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2446.85 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2446.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2447.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.30 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.40 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.50 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2447.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2447.80 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2447.85 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2447.90 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2447.95 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.00 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.05 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.10 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.15 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | 20 |
| Combiner Loss | 1 |
| Cable Loss of EUT | 1 |
| System Loss | 2 |
| S/N ratio | 13.8 |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2448.20 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.25 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.30 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.35 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.40 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.45 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.50 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2448.55 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.60 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.65 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.70 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.75 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2448.80 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2448.85 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2448.90 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2448.95 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2449.00 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2449.05 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2449.10 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.15 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2449.20 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.25 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.30 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.35 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.40 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2449.45 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.50 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.55 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.60 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.65 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.70 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.75 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.80 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.85 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.90 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2449.95 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2450.00 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.05 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2450.10 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.15 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2450.20 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.25 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.30 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.35 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.40 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2450.45 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2450.50 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.55 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.60 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.65 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.70 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2450.75 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.80 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.85 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.90 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2450.95 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.00 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.05 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.10 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.15 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2451.20 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.25 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.30 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.35 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2451.40 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2451.45 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2451.50 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2451.55 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.60 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.65 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.70 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.75 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.80 | -9.30 | -31.30 | -20.30 | 11.00 | 26.80 |
| 2451.85 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2451.90 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2451.95 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2452.00 | -9.30 | -31.30 | -19.30 | 12.00 | 27.80 |
| 2452.05 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.10 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.15 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | 20 |
| Combiner Loss | 1 |
| Cable Loss of EUT | 1 |
| System Loss | 2 |
| S/N ratio | 13.8 |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2452.20 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.25 | -9.30 | -31.30 | -18.30 | 13.00 | 28.80 |
| 2452.30 | -9.30 | -31.30 | -17.30 | 14.00 | 29.80 |
| 2452.35 | -9.30 | -31.30 | -17.30 | 14.00 | 29.80 |
| 2452.40 | -9.30 | -31.30 | -16.30 | 15.00 | 30.80 |
| 2452.45 | -9.30 | -31.30 | -16.30 | 15.00 | 30.80 |
| 2452.50 | -9.30 | -31.30 | -16.30 | 15.00 | 30.80 |
| 2452.55 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.60 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.65 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.70 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.75 | -9.30 | -31.30 | -15.30 | 16.00 | 31.80 |
| 2452.80 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2452.85 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2452.90 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2452.95 | -9.30 | -31.30 | -14.30 | 17.00 | 32.80 |
| 2453.00 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |
| 2453.05 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |
| 2453.10 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |
| 2453.15 | -9.30 | -31.30 | -13.30 | 18.00 | 33.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2453.20 | -9.30 | -31.30 | -12.30 | 19.00 | 34.80 |
| 2453.25 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.30 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.35 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.40 | -9.30 | -31.30 | -11.30 | 20.00 | 35.80 |
| 2453.45 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.50 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.55 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.60 | -9.30 | -31.30 | -10.30 | 21.00 | 36.80 |
| 2453.65 | -9.30 | -31.30 | -9.30 | 22.00 | 37.80 |
| 2453.70 | -9.30 | -31.30 | -8.30 | 23.00 | 38.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2428.70 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.75 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.80 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.85 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.90 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2428.95 | -9.30 | -31.30 | -21.30 | 10.00 | 25.80 |
| 2429.00 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.05 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.10 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.15 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.20 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.25 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.30 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.35 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.40 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.45 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.50 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.55 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.60 | -9.30 | -31.30 | -22.30 | 9.00 | 24.80 |
| 2429.65 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2429.70 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.75 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.80 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.85 | -9.30 | -31.30 | -23.30 | 8.00 | 23.80 |
| 2429.90 | -9.30 | -31.30 | -24.30 | 7.00 | 22.80 |
| 2429.95 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.00 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.05 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.10 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.15 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.20 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.25 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.30 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.35 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.40 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.45 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.50 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.55 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2430.60 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.65 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2430.70 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.75 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.80 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.85 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.90 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2430.95 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.00 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.05 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.10 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.15 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.20 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.25 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.30 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.35 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.40 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.45 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.50 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.55 | -9.30 | -31.30 | -25.30 | 6.00 | 21.80 |
| 2431.60 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |
| 2431.65 | -9.30 | -31.30 | -26.30 | 5.00 | 20.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2431.70 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2431.75 | -9.30 | -31.30 | -27.30 | 4.00 | 19.80 |
| 2431.80 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2431.85 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2431.90 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2431.95 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.00 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.05 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.10 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.15 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.20 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.25 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.30 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.35 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.40 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.45 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.50 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.55 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.60 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.65 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2432.70 | -9.30 | -31.30 | -28.30 | 3.00 | 18.80 |
| 2432.75 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.80 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.85 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.90 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2432.95 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.00 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.05 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.10 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.15 | -9.30 | -31.30 | -29.30 | 2.00 | 17.80 |
| 2433.20 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.25 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.30 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.35 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.40 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.45 | -9.30 | -31.30 | -30.30 | 1.00 | 16.80 |
| 2433.50 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.55 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.60 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.65 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2433.70 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.75 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.80 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.85 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.90 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2433.95 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.00 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.05 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.10 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.15 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.20 | -9.30 | -31.30 | -31.30 | 0.00 | 15.80 |
| 2434.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.30 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.40 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.45 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2434.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.80 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.85 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2434.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2434.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.00 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.05 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.10 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.15 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.20 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.25 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.30 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.35 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.45 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.65 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | 20 |
| Combiner Loss | 1 |
| Cable Loss of EUT | 1 |
| System Loss | 2 |
| S/N ratio | 13.8 |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2435.70 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.75 | -9.30 | -31.30 | -32.30 | -1.00 | 14.80 |
| 2435.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.85 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2435.95 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.20 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.40 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2436.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.55 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.60 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2436.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2436.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.25 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.35 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.55 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.60 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2437.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2437.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.25 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.30 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.35 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2438.40 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2438.45 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2438.50 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.55 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.60 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.65 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2438.70 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2438.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.10 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.15 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.20 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.25 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.30 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.35 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.40 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.50 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.55 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.60 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.65 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2439.70 | -9.30 | -31.30 | -35.30 | -4.00 | 11.80 |
| 2439.75 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.80 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.90 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2439.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.00 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.05 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.10 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.15 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.20 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.25 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.30 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.35 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.40 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.45 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.50 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.55 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.60 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.65 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2440.70 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.75 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.80 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.85 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2440.90 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2440.95 | -9.30 | -31.30 | -34.30 | -3.00 | 12.80 |
| 2441.00 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.05 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.10 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |
| 2441.15 | -9.30 | -31.30 | -33.30 | -2.00 | 13.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

# EXHIBIT 3

*BANDWIDTH PROBLEM WITH OUTPUT MEASUREMENT*

# RADIO CONNECT CORPORATION

## 2.44 GHZ RADIOWIRE MODEM

## M/N: RCC0001

## POWER OUTPUT WITH POWER METER

| CHANNEL NUMBER | POWER OUTPUT (dBm) |
|---|---|
| 1 | 16.73 |
| 2 | 18.00 |
| 3 | 17.40 |

## Test Equipment for Power Output test

| EQUIPMENT TYPE | MANU-FACTURER | MODEL NUMBER | SERIAL NUMBER | CAL. DATE | CAL. CYCLE |
|---|---|---|---|---|---|
| Power Meter | Hewlett Packard | 436A | 2236A15362 | June 17, 1998 | 1 Year |
| Power Sensor | Hewlett-Packard | 8482H | GG00000006 | June 18, 1998 | 1 Year |

# EXHIBIT 6

*2.4835 GHZ TO 2.5 GHZ RESTRICTED BAND*

# RADIATED EMISSIONS

**COMPANY NAME:** Radio Connect Corporation **DATE:** 7-11-98

**EUT:** 2.44 GHz Radio Rc Modem **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

**NOTES:** HIGH CHANNEL CCH: 31 HELICAL BACKFIRE CIRCULAR POLARIZED 0.6M PARABOLIC REFLECTOR T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.437 | 123.5 | 116.5 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 117.5 | — | — |
| 2.4835 | | | NO | EMISSIONS | FOUND | | | | | |
| 4.879 | 41.8 | 34.8 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 45.8 | -8.2 | 54.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** Radio Connect Corporation **DATE:** 7-11-98

**EUT:** 2.44 GHz Radio-Wire Modem **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

**NOTES:** High Channel (Ch. 3) Helical Backfire Circular Polarized 0.6M Parabolic Reflector T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.438 | 123.8 | 116.8 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 117.8 | | |
| 2.4835 | | | | NO | Emissions | Found | | | | |
| 4.881 | 44.5 | 37.5 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 48.5 | -5.5 | 54.0 |
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*** CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

**** DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# *RADIATED EMISSIONS*

**COMPANY NAME:** RadioConnect Corporation **DATE:** 7-11-98

**EUT:** 2.44 GHz Radio Modem **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

**NOTES:** LOW CHANNEL (CH. 1)

Helical Backfire Circular Polarized 0.6M Parabolic Reflector T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.415 | 123.9 | 116.9 | 1.5 | 0 | 28.2 | 5.5 | 32.7 | 117.9 | – | – |
| 2.483.5 | | | NO | EMISSIONS | FOUND | | | | | |
| 4.835 | 34.8 | 27.8 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 38.8 | -15.2 | 54.0 |
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*** CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

**** DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RadioConnect Corporation **DATE:** 7-11-98

**EUT:** 2.47 GHz Radio Modem **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

NOTES: Low Channel (Ch 1)

Helical Backfire Circular Polarized 0.6M Parabolic Reflector T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.416 | 124.6 | 117.6 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.6 | | |
| 2.4835 | | | | No | Emissions Found | | | | | |
| 4.879 | 34.9 | 27.9 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 38.9 | -15.1 | 54.0 |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# *RADIATED EMISSIONS*

**COMPANY NAME:** RadioConnect Corporation **DATE:** 7-11-98

**EUT:** 2.45 GHz Radio Re Modem **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

**NOTES:** Modem Channel (CH: 21)

Helical Backfire Circular Polarized 0.6M Parabolic Reflector T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.431 | 123.9 | 116.9 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 117.9 | | |
| 2.4835 | | | | No | Emissions | | Found | | | |
| 4.869 | 41.3 | 34.3 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 45.3 | -8.7 | 54.0 |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# *RADIATED EMISSIONS*

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 7-11-98

**EUT:** 2.44 GHz RADIO/RF MODEM **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: MIDDLE CHANNEL (CH 12)

HELICAL BACKFIRE CIRCULAR POLARIZED 0.6M PARABOLIC REFLECTOR T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.431 | 124.1 | 117.1 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.1 | – | – |
| 2.4835 | | | | NO | EMISSIONS | | FOUND | | | |
| 4.860 | 41.5 | 34.5 | 1.5 | 0 | 32.3 | 10.3 | 31.6 | 45.5 | -8.5 | 54.0 |
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*** CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

**** DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** Radio Connect Corporation **DATE:** 7-11-98

**EUT:** 2.44 GHz Radiowire Modem **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

**NOTES:** High Channel (Ch. 3) Circular Polarized Helical T-Com

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.436 | 119.3 | 112.3 | 2.5 | 0 | 28.2 | 8.5 | 32.7 | 113.3 | - | - |
| 2.4835 | | | No | Emissions | | Found | | | | |
| 4.880 | 34.6 | 27.6 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 38.6 | -15.4 | 54.0 |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# *RADIATED EMISSIONS*

**COMPANY NAME:** RadioConnect Corporation **DATE:** 7-11-98

**EUT:** 2.44 GHz Radio Wire Modem **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

NOTES: High Channel (Ch. 3) Circular Polarized Helical T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.436 | 118.4 | 111.4 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 112.4 | – | – |
| 2.4835 | | | | NO | EMISSIONS | | FOUND | | | |
| 4.880 | 40.5 | 33.5 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 44.5 | -9.5 | 54.0 |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

COMPANY NAME: RadioConnect Corporation DATE: 7-11-98

EUT: 2.44 GHz Radionic Modem EUT S/N:

EUT MODEL: RCC 0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: TEST DISTANCE: 3M LAB: 1)

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ☐ VERT ■ HORIZ

☐ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: Kyle F.

NOTES: Low Channel (Ch. 1) Circular Polarized Helical T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.415 | 119.7 | 112.7 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 113.7 | - | - |
| 2.4835 | | | | No | Emissions | | Found | | | |
| 4.833 | 39.6 | 32.6 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 43.6 | -10.4 | 54.0 |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 7-11-98

**EUT:** 2.44 GHz RADIOWIRE MODEM **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

**NOTES:** LOW CHANNEL (CH.1) CIRCULAR POLARIZED HELICAL T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.417 | 120.8 | 113.8 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 114.8 | — | — |
| 2.4835 | | | | NO | EMISSIONS FOUND | | | | | |
| 4.833 | 37.4 | 30.4 | 2.5 | 0 | 32.3 | 10.3 | 31.6 | 41.4 | -12.6 | 54.0 |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 7-11-98

**EUT:** 2.44 GHz RADIOLINK MODEM **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

NOTES: MEDIUM CHANNEL (CH.2) CIRCULAR POLARIZED HELICAL T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.432 | 120.8 | 113.8 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 114.8 | – | – |
| 2.4835 | | | | NO | EMISS | IONS | FOUND | | | |
| 4.864 | 36.0 | 29.0 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 40.0 | -14.0 | 54.0 |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 7-11-98

**EUT:** 2.44 GHZ RADIO LINK MODEM **EUT S/N:**

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: MIDDLE CHANNEL (CH.2) CIRCULAR POLARIZED HELICAL T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.429 | 119.4 | 112.4 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 113.4 | — | — |
| 2.4835 | | | | NO | EMISSIONS | | FOUND | | — | — |
| 4.854 | 40.3 | 33.3 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 44.3 | -9.7 | 54.0 |
| | | | | | | | | | | |
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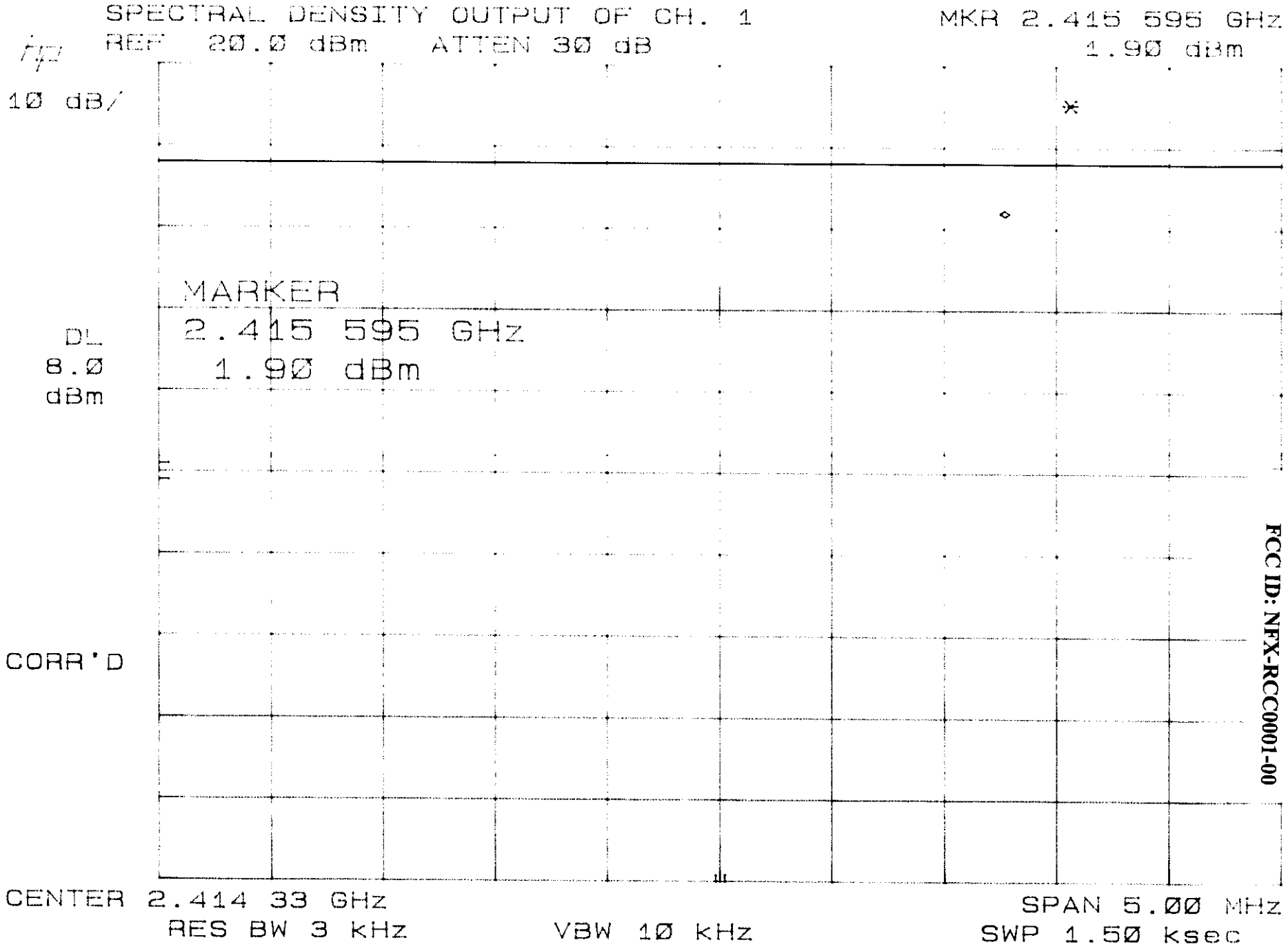
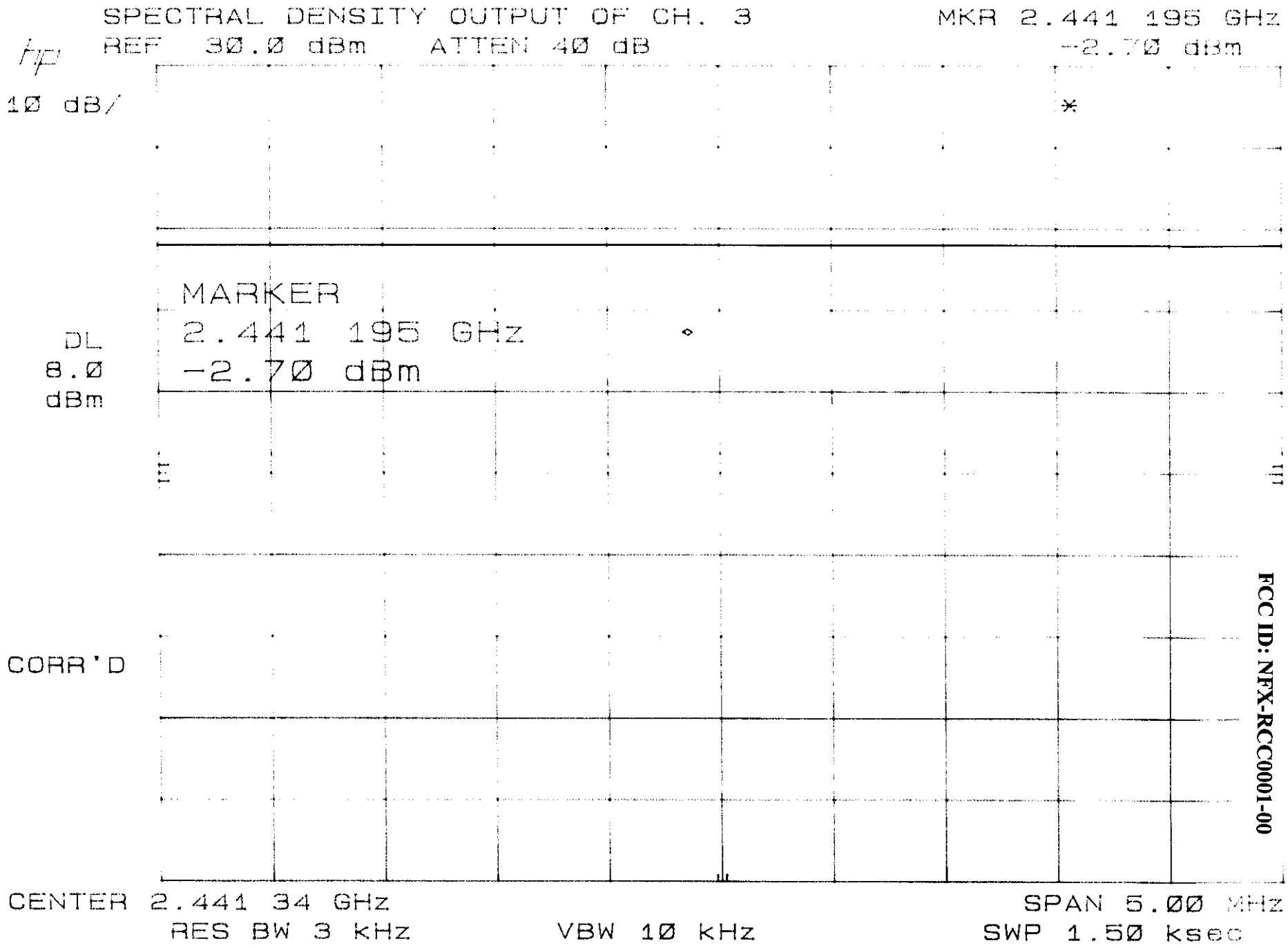
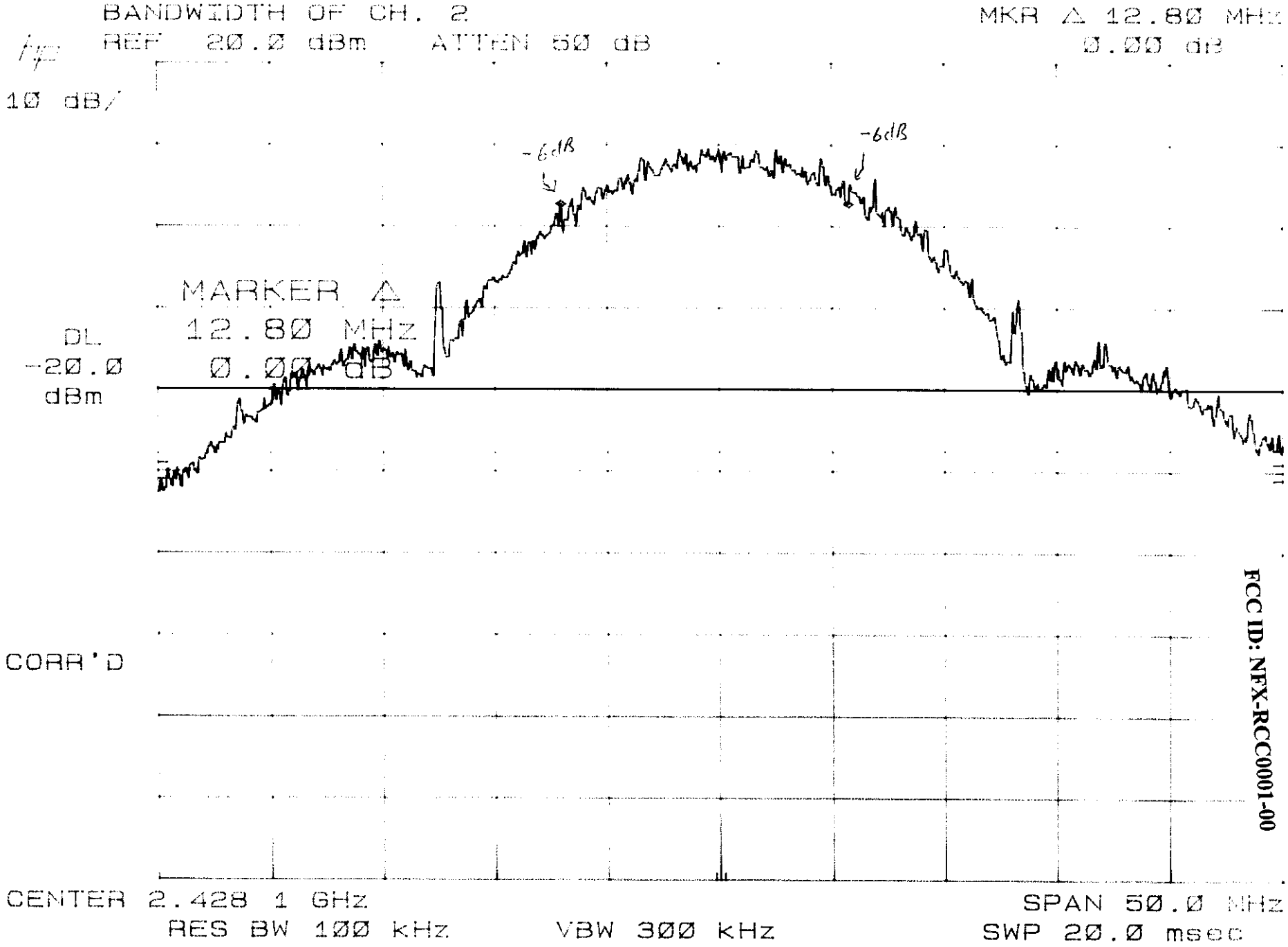
* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

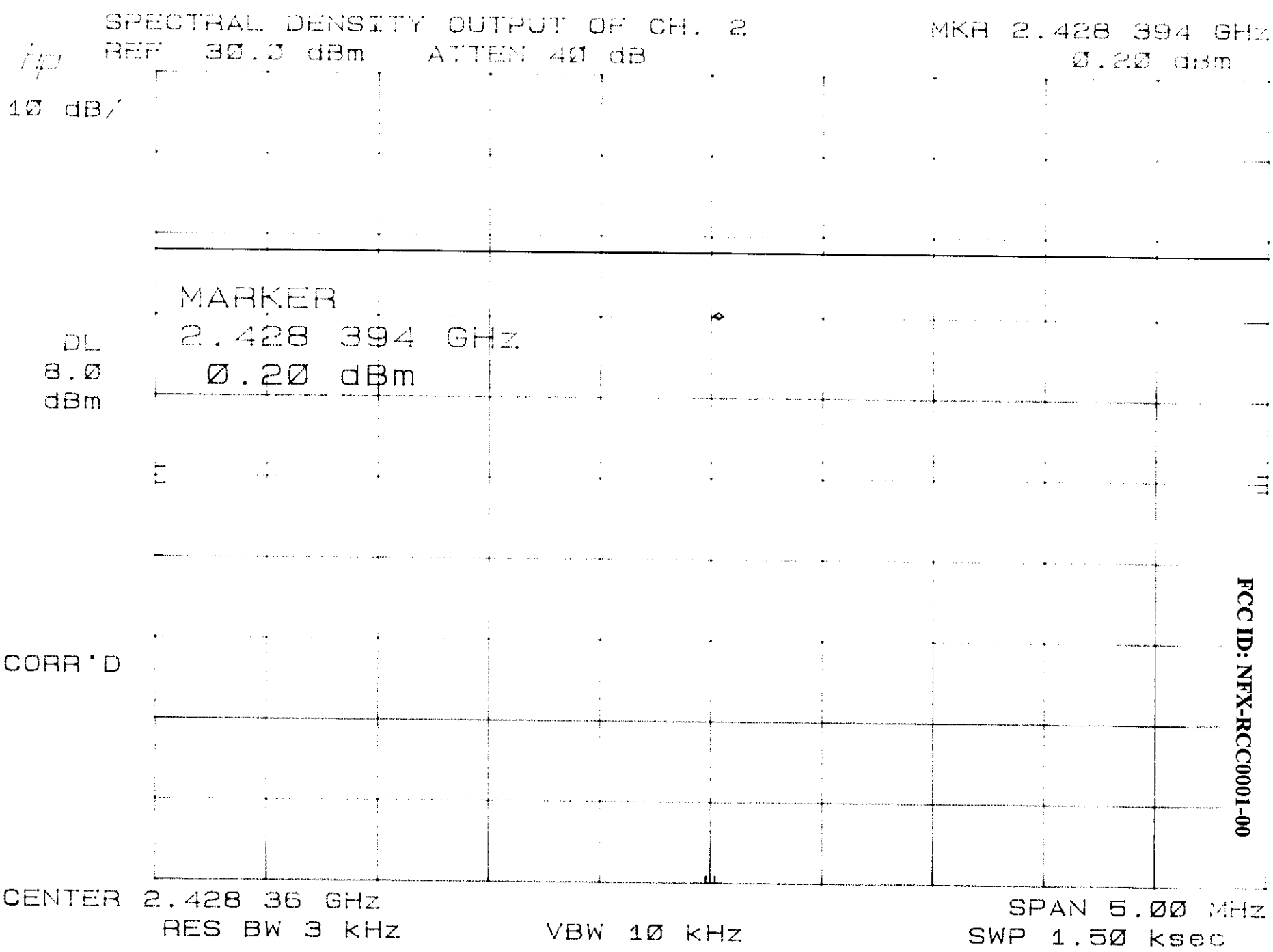




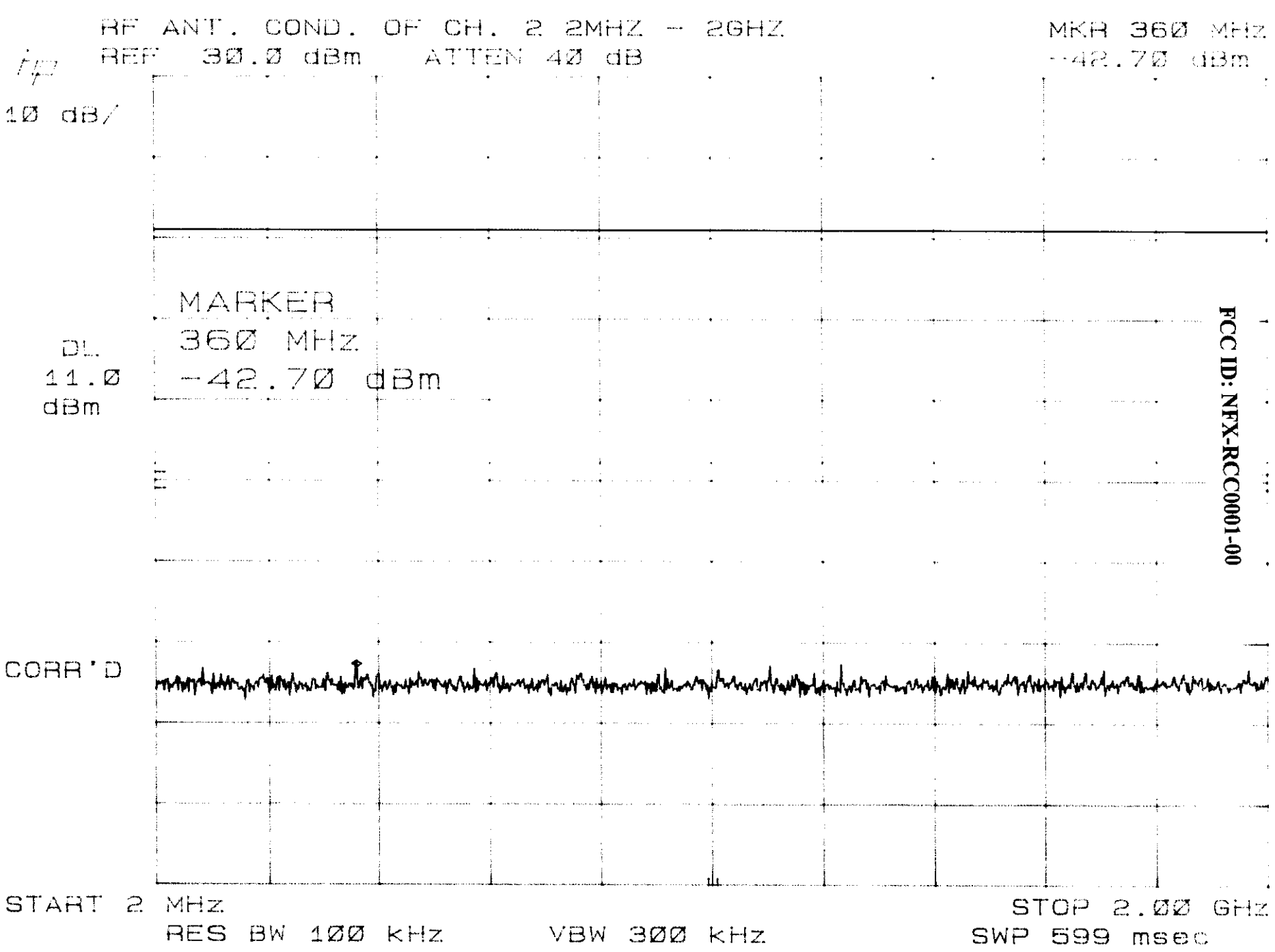

FCC ID: NFX-RCC0001-00




FCC ID: NFX-RCC0001-00




FCC ID: NFX-RCC0001-00


RF ANT. COND. OF CH. 2 2MHZ - 2GHZ
MKR 360 MHz
REF 30.0 dBm
ATTEN 40 dB
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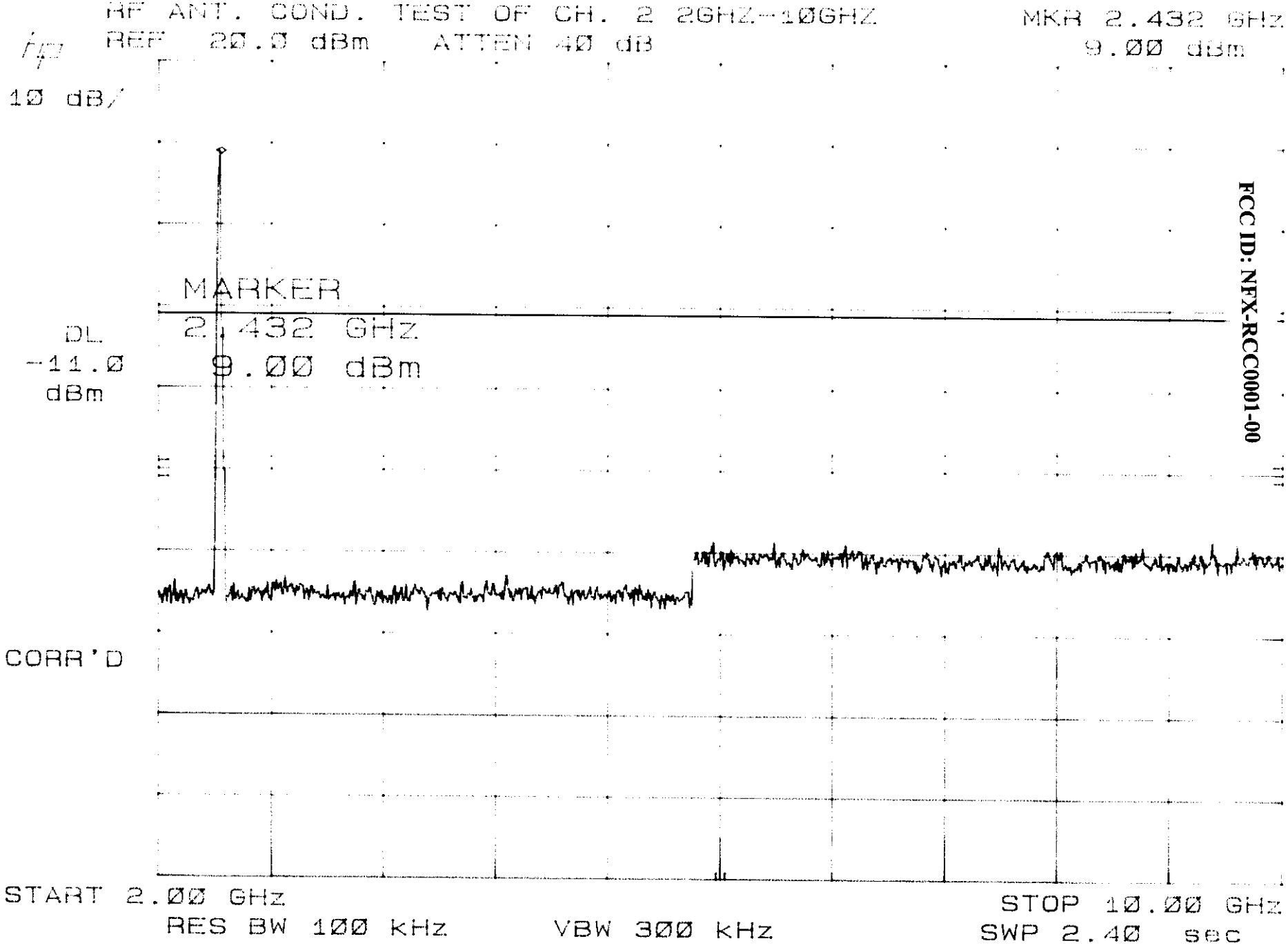
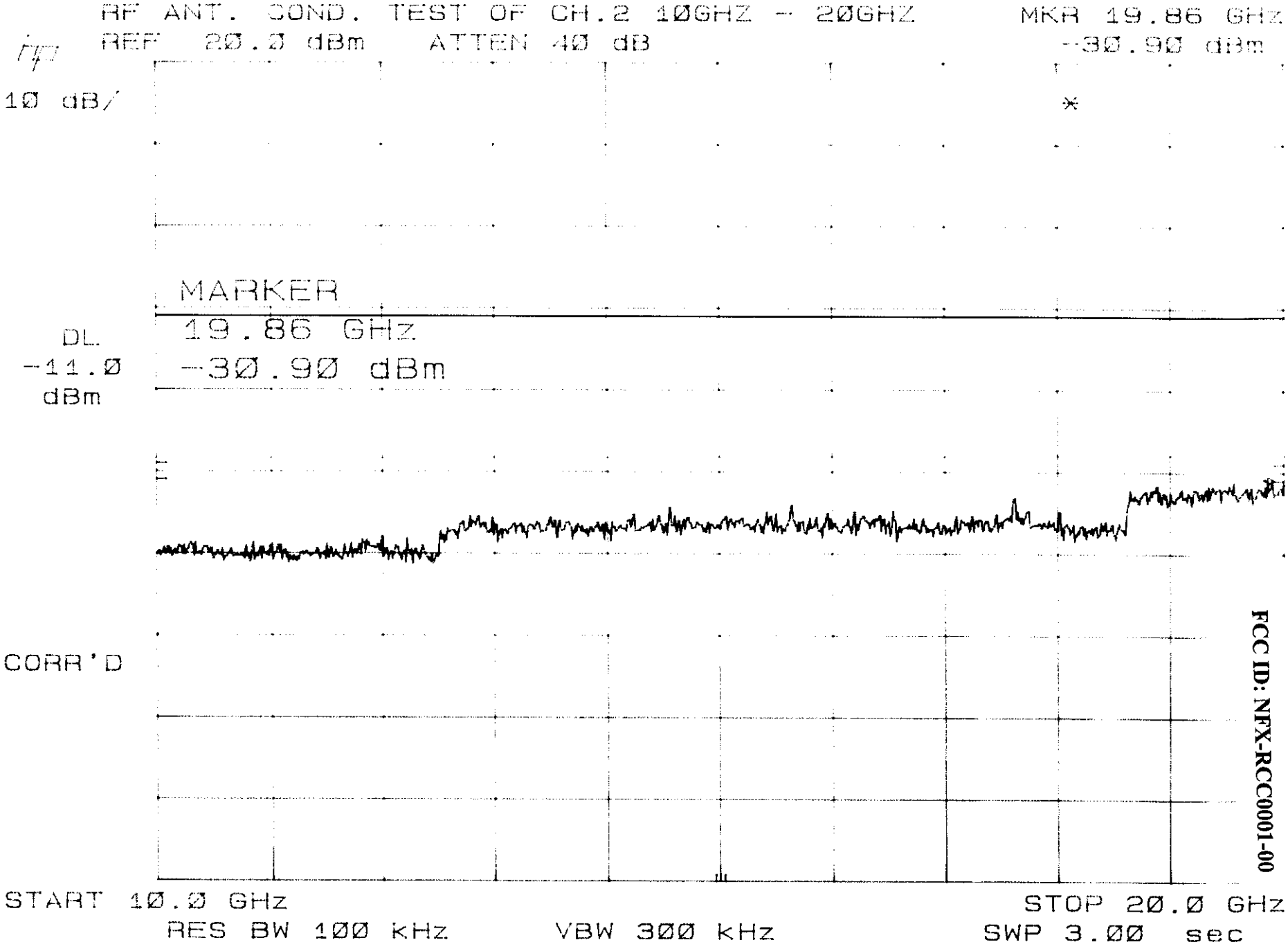
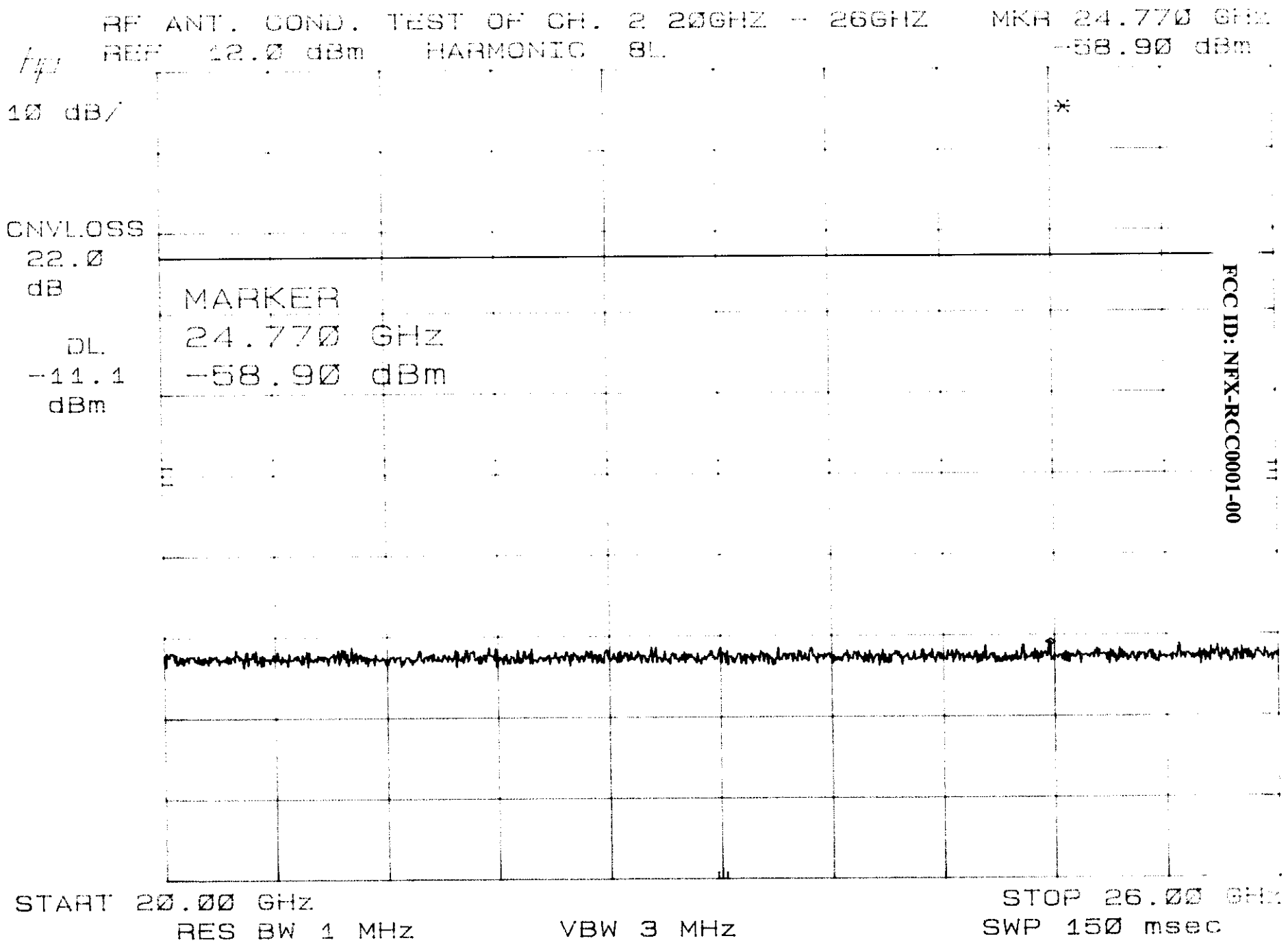
10 dB/
MARKER
360 MHz
-42.70 dBm
DL
11.0
dBm
FCC ID: NFX-RCC0001-00
CORR'D
START 2 MHz
STOP 2.00 GHz
RES BW 100 kHz
VBW 300 kHz
SWP 599 msec






RF ANT. COND. TEST OF CH. 2 20GHZ - 26GHZ
MKR 24.770 GHz
REF 12.0 dBm
HARMONIC BL
-58.90 dBm
10 dB/
CNVLOSS
22.0
dB
DL
-11.1
dBm
MARKER
24.770 GHz
-58.90 dBm
FCC ID: NFX-RCC0001-00
START 20.00 GHz
RES BW 1 MHz
VBW 3 MHz
STOP 26.00 GHz
SWP 150 msec

# MODIFICATION TO THE EUT

The modification listed below was made to the EUT.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

Modification:

1) Replaced the band pass filter in series with F5 and the proprietary antenna connector with an Inter-Digital filter (RadioConnect P/N: 5001).

# EXHIBIT 7

*PROCESSING GAIN*

**FCC ID: NFX-RCC0001-00**

# RadioConnect Corporation

| | | |
|---|---|---|
| To: | Mr. Scott McCutchan<br>Compatible Electronics, Inc. | July 10, 1998<br>Ref: 980702-AT-1<br>Total Pages: 1 |
| From: | Arthur Tanaka | |
| Email: | atanaka@radioconnect.com | Voice: 310-338-3388 x 232 |
| Project: | RadioWire | |
| Subject: | Replay to FCC Response for **FCC ID: NFX-RCC0001-00** | |

Dear Scott,

Included with this fax is a Confidentiality Letter, Block Diagrams, copy of update to manual regarding RF safety considerations during installation, and responses to questions posed by the FCC in your letter dated June 30, 1998.

| | | |
|---|---|---|
| 1) | Confidentiality letter. | See attached transmittal Exhibit 1, Ref: 980702-HMF-1 that lists the items to be held confidential. |
| 2) | Block diagram. | Please see attached block diagrams in Exhibit 2. The Block Diagrams included with the application were in the middle of the set of schematics, and could have been mistaken for schematics. |
| 3) | Re-measure power | Yes, we agree that the power can be re-measured. A power meter will be available for use on Monday. |
| 4) | Installation instructions | See attached update to our user's manual "RF Safety Considerations for Installation of RadioWire Modem". |
| 5) | Star Networks | The RadioWire Modem (RWM) does not operate in the Point-Multipoint mode. It can only operate Point-To-Point. We provide the ability for users to configure and connect sets of point-to-point links to provide a star function. Users do this by connecting the Network Interface Modules of several RWMs at a central node. Each RWM at the central node communicates with only one remote RWM.<br><br>The antenna in question is a helical antenna operating in the axial mode yielding a directional gain of 14 dBi with a beamwidth of 35°. See attached antenna manufacturer's drawing (Tecom #703306). Also see attached table of antennas. |
| 6) | Restricted Band | We will be testing a solution for this problem Saturday, July 11th. |
| 7) | Processing Gain | On 7/6/98 we repeated the Process Gain test using 50 kHz steps across the entire passband of the RWM channel, using the method suggested in the FCC Public Notice #54797 dated July 12,1995.. See the Jamming Test Setup diagram. Also included is is a copy of a table from Electronic Communications Handbook by Andrew F. Inglis, McGraw Hill © 1988 showing QPSK and OQPSK with the same (S/N)o. Also included is a graph showing the (S/N)o for QPSK as 13.8 dB for an error rate of $10^{-6}$ from Digital Line-Of-Sight Radio Links book by A.A.R. Townsend, Prentice Hall © 1988. |

Best regards,

Arthur Tanaka

6041 Bristol Parkway Culver City, CA 90230 telephone (310) 338-3388 facsimile (310) 338-3399

**TABLE 11.1** Ideal Performance of Representative Modulation Methods

| Modulation method | $E_b/N_o$, dB* |
|---|---|
| **Amplitude-shift keying** | |
| OOK—coherent detection | 11.4 |
| OOK—envelope detection | 11.9 |
| **Frequency-shift keying** | |
| FSK—noncoherent detection ($d$ = 1) | 12.5 |
| CP-FSK—coherent detection ($d$ = 0.7) | 7.4† |
| CP-FSK—noncoherent detection ($d$ = 0.7) | 9.2† |
| MSK ($d$ = 0.5) | 8.4 |
| MSK—differential encoding ($d$ = 0.5) | 9.4 |
| **Phase-shift keying** | |
| BPSK coherent detection | 8.4 |
| DE-BPSK | 8.9 |
| DPSK | 9.3 |
| QPSK | 8.4 |
| DQPSK | 10.7 |
| OK-QPSK | 8.4 |
| 8-ary PSK coherent detection | 11.8 |
| 16-aryPSK coherent detection | 16.2 |
| **QAM** | |
| 16-ary QAM | 12.4 |

*Required for a bit error rate of $10^{-4}$.
†For a three-bit observation interval.
(Source: Oetting, J.D., "A Comparison of Modulation Techniques for Digital Radio," *IEEE Transactions on Communications*, vol. 23, no. 12, December 1979.)

Because of the severe effects of this degree of fading, a required bit rate of $10^{-2}$ is assumed in this table. This error rate is high for most digital radio applications, but error-control coding could be used to achieve a satisfactory result. Since the values in Table 11.4 are a weighted average of the ideal performance figures, the relative performance of the various methods does not differ markedly from that indicated in Table 11.1.

***Cost and Complexity.*** The relative costs of the various modulation methods for a specific communication system cannot be evaluated accurately without conducting a full-scale investigation of the tradeoffs involved for the various options. Nevertheless, the modulation methods can be ranked according to their relative complexity, and this provides the basis for an initial estimate of their relative costs. This ranking is shown in Fig. 11.14.

## SPREAD-SPECTRUM MODULATION TECHNIQUES

### 22. Introduction

*Spread-spectrum systems* are characterized by transmission bandwidths that are much wider than the minimum required to transmit the information. The large

**TABLE 11.2** Signal Spec

| Modulation method |
|---|
| OOK—coherent detectior |
| FSK—noncoherent detec tion ($d$ = 1) |
| CP-FSK—noncoherent de tection ($d$ = 0.7) |
| MSK ($d$ = 0.5) |
| MSK—differential encoc ing ($d$ = 0.5) |
| BPSK—coherent detectio |
| DE-BPSK |
| DPSK |
| QPSK |
| DQPSK |
| 8-ary PSK—coherent de tection |
| 16-ary PSK—coherent de tection |
| 16-ary QAM |

*Required for a bit error
†Discriminator detection.
(Source: Oetting, J.D., "
*actions on Communications*,

bandwidth redundancy
severe levels of interfe

A second importan
*randomness*. This make
to demodulate by receiv
against unauthorized rec
forms, by sophisticated

Spread-spectrum mc

1. Combating or suppr channel, signals fror
2. Hiding the signal by for unwanted listene
3. Achieving message p

### 23. Spread-Spectrun

Spread-spectrum syster

DIGITAL LINE-OF-SIGHT RADIO LINKS
A.A.R. Townsend Prentice Hall © 1988

**FCC ID: NFX-RCC0001-00**

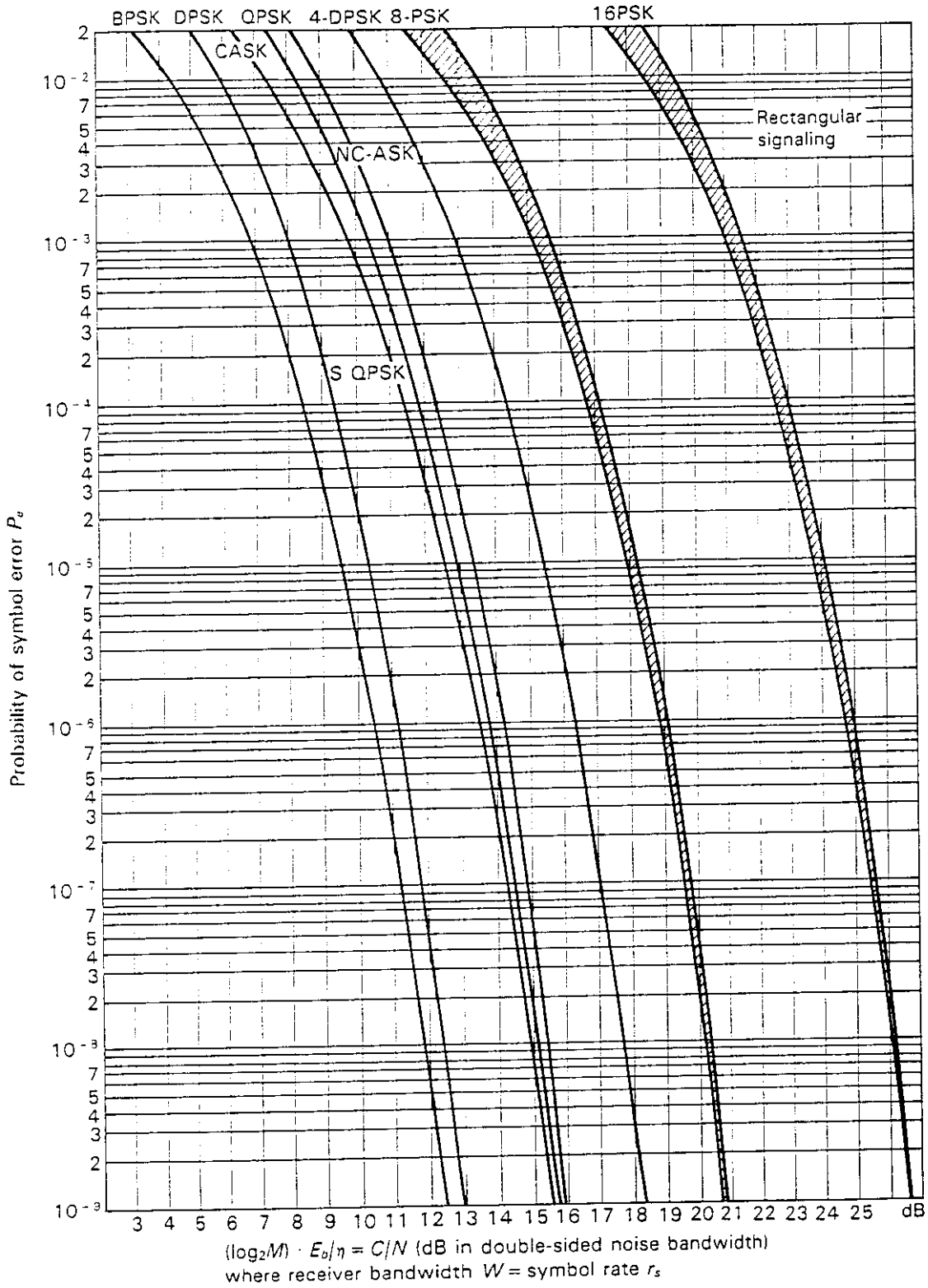



**Figure 6.5** $P_e$ **performance of various modulation schemes**

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2441.20 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.25 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2441.30 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2441.35 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2441.40 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.45 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.50 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.55 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.60 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.65 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.70 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.75 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.80 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.85 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.90 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2441.95 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2442.00 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.05 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.10 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.15 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2442.20 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.25 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.30 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2442.35 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.40 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2442.45 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.50 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2442.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2442.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2442.65 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.70 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.75 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.80 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2442.85 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2442.90 | -9.30 | -31.30 | -33.80 | -4.50 | 11.30 |
| 2442.95 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.00 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.05 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.10 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.15 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2443.20 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.25 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.30 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.35 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.40 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2443.45 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.50 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2443.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.65 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.70 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.75 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.80 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2443.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2443.90 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2443.95 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.00 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.05 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2444.10 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.15 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2444.20 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2444.25 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2444.30 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.35 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.40 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.45 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.50 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2444.55 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2444.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2444.65 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.70 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.75 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2444.80 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2444.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.90 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2444.95 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.00 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.05 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.10 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.15 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2445.20 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.25 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.30 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.35 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.40 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2445.45 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.50 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2445.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2445.65 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2445.70 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2445.75 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.80 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2445.90 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2445.95 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.00 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.05 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.10 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.15 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2446.20 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.25 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.30 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.35 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.40 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.45 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.50 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.65 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.70 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.75 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.80 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2446.85 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.90 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2446.95 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2447.00 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2447.05 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2447.10 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2447.15 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2447.20 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2447.25 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.30 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.35 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.40 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.45 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.50 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2447.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2447.65 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.70 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.75 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2447.80 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2447.85 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2447.90 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2447.95 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.00 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.05 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.10 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.15 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2448.20 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.25 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.30 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.35 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.40 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2448.45 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.50 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2448.55 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2448.60 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2448.65 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2448.70 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2448.75 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2448.80 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2448.85 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2448.90 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2448.95 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2449.00 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2449.05 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2449.10 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2449.15 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2449.20 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2449.25 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2449.30 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.35 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2449.40 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2449.45 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.50 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.55 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.60 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.65 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.70 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.75 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.80 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.85 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.90 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2449.95 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2450.00 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2450.05 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2450.10 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2450.15 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2450.20 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2450.25 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2450.30 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2450.35 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2450.40 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2450.45 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2450.50 | -9.30 | -31.30 | -24.30 | 5.00 | 20.80 |
| 2450.55 | -9.30 | -31.30 | -24.30 | 5.00 | 20.80 |
| 2450.60 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2450.65 | -9.30 | -31.30 | -24.30 | 5.00 | 20.80 |
| 2450.70 | -9.30 | -31.30 | -24.30 | 5.00 | 20.80 |
| 2450.75 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2450.80 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2450.85 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2450.90 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2450.95 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.00 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.05 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.10 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.15 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2451.20 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.25 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.30 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.35 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2451.40 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2451.45 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2451.50 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2451.55 | -9.30 | -31.30 | -20.30 | 9.00 | 24.80 |
| 2451.60 | -9.30 | -31.30 | -20.30 | 9.00 | 24.80 |
| 2451.65 | -9.30 | -31.30 | -20.30 | 9.00 | 24.80 |
| 2451.70 | -9.30 | -31.30 | -20.30 | 9.00 | 24.80 |
| 2451.75 | -9.30 | -31.30 | -20.30 | 9.00 | 24.80 |
| 2451.80 | -9.30 | -31.30 | -20.30 | 9.00 | 24.80 |
| 2451.85 | -9.30 | -31.30 | -19.30 | 10.00 | 25.80 |
| 2451.90 | -9.30 | -31.30 | -19.30 | 10.00 | 25.80 |
| 2451.95 | -9.30 | -31.30 | -19.30 | 10.00 | 25.80 |
| 2452.00 | -9.30 | -31.30 | -19.30 | 10.00 | 25.80 |
| 2452.05 | -9.30 | -31.30 | -18.30 | 11.00 | 26.80 |
| 2452.10 | -9.30 | -31.30 | -18.30 | 11.00 | 26.80 |
| 2452.15 | -9.30 | -31.30 | -18.30 | 11.00 | 26.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2452.20 | -9.30 | -31.30 | -18.30 | 11.00 | 26.80 |
| 2452.25 | -9.30 | -31.30 | -18.30 | 11.00 | 26.80 |
| 2452.30 | -9.30 | -31.30 | -17.30 | 12.00 | 27.80 |
| 2452.35 | -9.30 | -31.30 | -17.30 | 12.00 | 27.80 |
| 2452.40 | -9.30 | -31.30 | -16.30 | 13.00 | 28.80 |
| 2452.45 | -9.30 | -31.30 | -16.30 | 13.00 | 28.80 |
| 2452.50 | -9.30 | -31.30 | -16.30 | 13.00 | 28.80 |
| 2452.55 | -9.30 | -31.30 | -15.30 | 14.00 | 29.80 |
| 2452.60 | -9.30 | -31.30 | -15.30 | 14.00 | 29.80 |
| 2452.65 | -9.30 | -31.30 | -15.30 | 14.00 | 29.80 |
| 2452.70 | -9.30 | -31.30 | -15.30 | 14.00 | 29.80 |
| 2452.75 | -9.30 | -31.30 | -15.30 | 14.00 | 29.80 |
| 2452.80 | -9.30 | -31.30 | -14.30 | 15.00 | 30.80 |
| 2452.85 | -9.30 | -31.30 | -14.30 | 15.00 | 30.80 |
| 2452.90 | -9.30 | -31.30 | -14.30 | 15.00 | 30.80 |
| 2452.95 | -9.30 | -31.30 | -14.30 | 15.00 | 30.80 |
| 2453.00 | -9.30 | -31.30 | -13.30 | 16.00 | 31.80 |
| 2453.05 | -9.30 | -31.30 | -13.30 | 16.00 | 31.80 |
| 2453.10 | -9.30 | -31.30 | -13.30 | 16.00 | 31.80 |
| 2453.15 | -9.30 | -31.30 | -13.30 | 16.00 | 31.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2453.20 | -9.30 | -31.30 | -12.30 | 17.00 | 32.80 |
| 2453.25 | -9.30 | -31.30 | -11.30 | 18.00 | 33.80 |
| 2453.30 | -9.30 | -31.30 | -11.30 | 18.00 | 33.80 |
| 2453.35 | -9.30 | -31.30 | -11.30 | 18.00 | 33.80 |
| 2453.40 | -9.30 | -31.30 | -11.30 | 18.00 | 33.80 |
| 2453.45 | -9.30 | -31.30 | -10.30 | 19.00 | 34.80 |
| 2453.50 | -9.30 | -31.30 | -10.30 | 19.00 | 34.80 |
| 2453.55 | -9.30 | -31.30 | -10.30 | 19.00 | 34.80 |
| 2453.60 | -9.30 | -31.30 | -10.30 | 19.00 | 34.80 |
| 2453.65 | -9.30 | -31.30 | -9.30 | 20.00 | 35.80 |
| 2453.70 | -9.30 | -31.30 | -8.30 | 21.00 | 36.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2428.70 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2428.75 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2428.80 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2428.85 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2428.90 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2428.95 | -9.30 | -31.30 | -21.30 | 8.00 | 23.80 |
| 2429.00 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.05 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.10 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.15 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.20 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.25 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.30 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.35 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.40 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.45 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.50 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.55 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.60 | -9.30 | -31.30 | -22.30 | 7.00 | 22.80 |
| 2429.65 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2429.70 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2429.75 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2429.80 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2429.85 | -9.30 | -31.30 | -23.30 | 6.00 | 21.80 |
| 2429.90 | -9.30 | -31.30 | -24.30 | 5.00 | 20.80 |
| 2429.95 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.00 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.05 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.10 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.15 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.20 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.25 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.30 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.35 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.40 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.45 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.50 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.55 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2430.60 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.65 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2430.70 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.75 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.80 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.85 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.90 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2430.95 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.00 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2431.05 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2431.10 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2431.15 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.20 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.25 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.30 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.35 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.40 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.45 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.50 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.55 | -9.30 | -31.30 | -25.30 | 4.00 | 19.80 |
| 2431.60 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |
| 2431.65 | -9.30 | -31.30 | -26.30 | 3.00 | 18.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2431.70 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2431.75 | -9.30 | -31.30 | -27.30 | 2.00 | 17.80 |
| 2431.80 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2431.85 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2431.90 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2431.95 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.00 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.05 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.10 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.15 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.20 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.25 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.30 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.35 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2432.40 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2432.45 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2432.50 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.55 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.60 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.65 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2432.70 | -9.30 | -31.30 | -28.30 | 1.00 | 16.80 |
| 2432.75 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.80 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.85 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.90 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2432.95 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.00 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.05 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.10 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.15 | -9.30 | -31.30 | -29.30 | 0.00 | 15.80 |
| 2433.20 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.25 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.30 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.35 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.40 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.45 | -9.30 | -31.30 | -30.30 | -1.00 | 14.80 |
| 2433.50 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.55 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.60 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.65 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2433.70 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.75 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.80 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.85 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.90 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2433.95 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2434.00 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2434.05 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2434.10 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2434.15 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2434.20 | -9.30 | -31.30 | -31.30 | -2.00 | 13.80 |
| 2434.25 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.30 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.35 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.40 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.45 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.50 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2434.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2434.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2434.65 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2434.70 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2434.75 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.80 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.85 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2434.90 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2434.95 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.00 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.05 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.10 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.15 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.20 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.25 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.30 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.35 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.40 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.45 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.50 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.65 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2435.70 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.75 | -9.30 | -31.30 | -32.30 | -3.00 | 12.80 |
| 2435.80 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.85 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.90 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2435.95 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.00 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.05 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.10 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.15 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.20 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.25 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.30 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.35 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.40 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2436.45 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.50 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.55 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.60 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.65 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2436.70 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.75 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.80 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.90 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2436.95 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.00 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.05 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.10 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.15 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.20 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.25 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.30 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.35 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.40 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.45 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.50 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.55 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.60 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.65 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2437.70 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.75 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.80 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.90 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2437.95 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.00 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.05 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.10 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.15 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.20 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.25 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.30 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.35 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2438.40 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2438.45 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2438.50 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.55 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.60 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.65 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2438.70 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.75 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.80 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.90 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2438.95 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.00 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.05 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.10 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.15 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.20 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.25 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.30 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.35 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.40 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.45 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.50 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.55 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.60 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.65 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2439.70 | -9.30 | -31.30 | -35.30 | -6.00 | 9.80 |
| 2439.75 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.80 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.90 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2439.95 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.00 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.05 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.10 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.15 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.20 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.25 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.30 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.35 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.40 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.45 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.50 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.55 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.60 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.65 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2440.70 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.75 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.80 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.85 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2440.90 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2440.95 | -9.30 | -31.30 | -34.30 | -5.00 | 10.80 |
| 2441.00 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2441.05 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2441.10 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |
| 2441.15 | -9.30 | -31.30 | -33.30 | -4.00 | 11.80 |

**LOSSES**

| | |
|---|---|
| Attenuation | **20** |
| Combiner Loss | **1** |
| Cable Loss of EUT | **1** |
| System Loss | **2** |
| S/N ratio | **13.8** |
| Cable Loss of the Signal Generator | **1** |

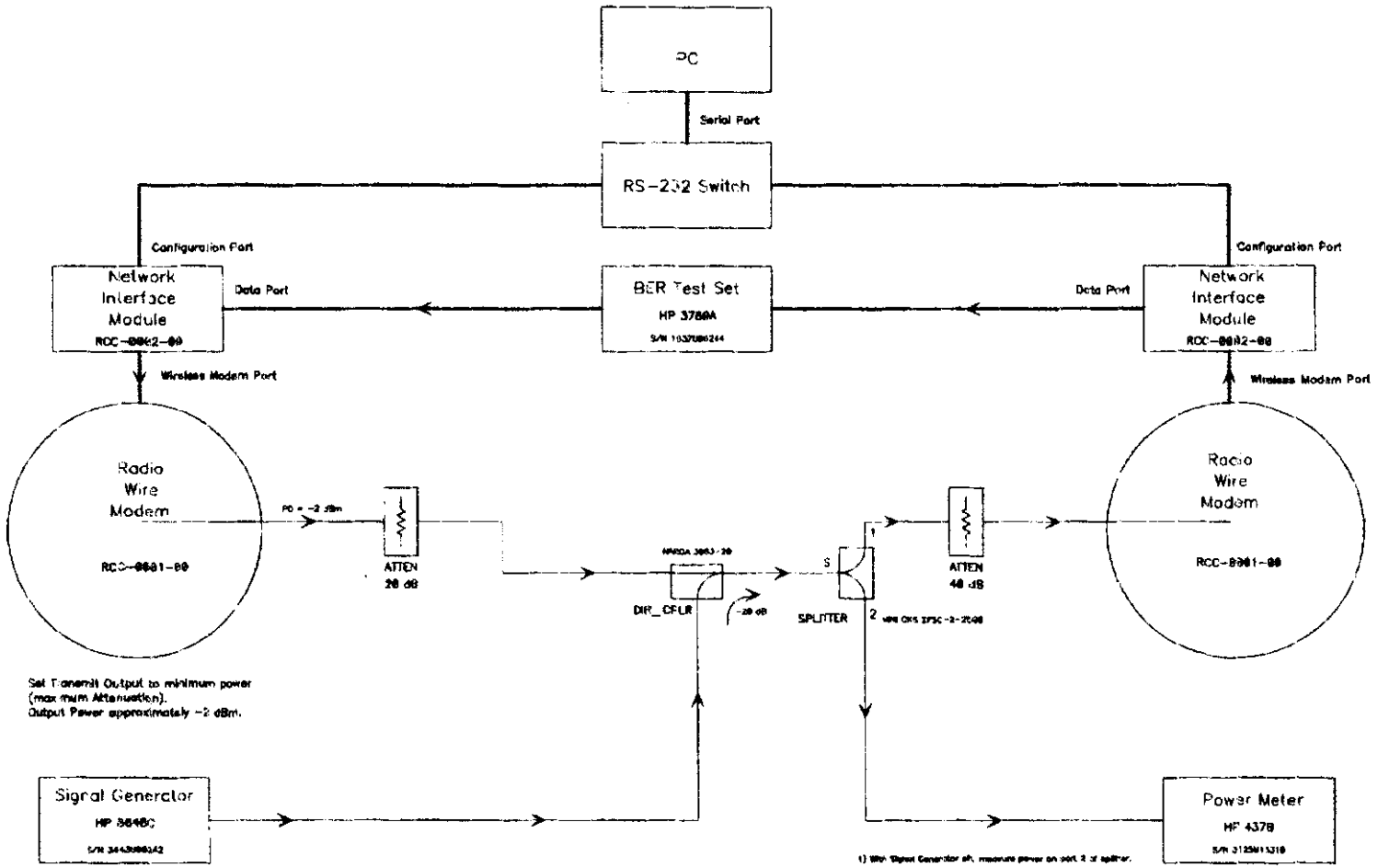
Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss of the EUT

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss of the Signal Generator.

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

# FCC ID: NFX-RCC0001-00

## Process Gain Test Setup




1) With Signal Generator off, measure power on port 3 of splitter.

2) With Radiowire modems off, adjust signal generator output to match Radiowire power on port 1 of splitter.

3) The approximately 40 signal generator level is the 8 dB differential level between the PRM and signal generator.

| RadioConnect Corporation | | |
|---|---|---|
| 6041 Bristol Parkway, Culver City, CA 90230 | | (310) 334-3380 |
| Title: Block Diagram, Process Gain Test Fixture | | |
| Size: C | Number: | Rev: 0.1 |
| Date: 7/7/98 | Drawn by: AJT | |
| File name: GAIN_TST.SCH | Sheet: 1 of 1 | |

FCC ID: NFX-RCC0001-00

# *LIST OF EXHIBITS*

1) PROPOSED FCC LABEL AND ITS LOCATION

2) LETTER OF AUTHORITY

3) ANTI-DRUG ABUSE LETTER

4) EXPOSITORY STATEMENT

5) TECHNICAL TEST REPORT

6) PHOTOGRAPHS

7) SCHEMATICS, ANTENNA, AND DUTY CYCLE INFO

8) OWNER'S MANUAL

COMPATIBLE
ELECTRONICS

114 OLINDA DRIVE, BREA, CA 92823 • (714) 579-0500 • FAX (714) 579-1850

May 04, 1998

Federal Communications Commission
Equipment Approval Services
P.O. Box 358315
Pittsburgh, PA 15251-5315

Subject: Request for Certification of the
RadioConnect Corporation
2.44 GHz RadioWire Modem
Model: RCC0001

**FCC ID: NFX-RCC0001-00**

Fee: A check for $1025.00 for the certification and request for confidentiality is enclosed.

Gentlemen:

We have enclosed a package for the certification of the RadioConnect Corporation 2.44 GHz RadioWire Model: RCC0001.

We have enclosed the completed Form 731 with the applicable exhibits. A list of the exhibits is enclosed with this package.

If you have any questions or need any additional information, please give me a call at (714) 579-0500.

Sincerely,

Scott McCutchan
Lab Manager

# EXHIBIT 5

TECHNICAL TEST REPORT

COMPATIBLE ELECTRONICS
REPORT NO. B80428D1
DATE: APRIL 30, 1998

*FCC PART 15 SUBPART C*
*TEST REPORT*
for
**2.44 GHz RADIOWIRE MODEM**
**Model: RCC0001**

Prepared for
RADIOCONNECT CORPORATION
6041 BRISTOL PARKWAY
CULVER CITY, CALIFORNIA 90230

Prepared by
COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
(714) 579-0500

DATES OF TEST: APRIL 16, 17, 18, 26, AND 27, 1998

| | REPORT BODY | APPENDICES | | | | TOTAL |
|---|---|---|---|---|---|---|
| | | *A* | *B* | *C* | *D* | |
| PAGES | 24 | 59 | 9 | 8 | 3 | **103** |

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LIST OF FIGURES



APPENDICES

REPORT NO. B80428D1
DATE: APRIL 30, 1998

SUMMARY OF TEST REPORT

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent consulting firm. The test report is based on the emission data measured by Compatible Electronics personnel according to the ANSI C63.4 1992 measurement procedure. The site attenuation measurement data for the firm's open field test site is filed with FCC, according to the ANSI C63.4 1992. The test results, provided with this report, indicate that the electromagnetic emissions from the equipment tested are within the specification limits defined by FCC Title 47, Part 15, Subpart C, Section 15.247.

| | | |
|---|---|---|
| Device Tested: | 2.44 GHz Radiowire Modem<br>Model: RCC0001 | |
| Manufacturer: | RadioConnect Corporation<br>6041 Bristol Parkway<br>Culver City, California 90230 | |
| Frequency Ranges of the Test: | Conducted:<br>Radiated: | 450 kHz to 30 MHz<br>10 kHz to 25 GHz |
| Test Location: | 114 Olinda Drive, Brea, California 92823 | |
| Test Dates: | April 16, 17, 18, 26, and 27, 1998 | |

The measurement data and conclusions are a true and accurate representation of the electromagnetic emissions characteristics of the test sample described in this report.

Report prepared by:

Kyle Fujimoto
Test Engineer
Compatible Electronics, Inc.

Approved by:

Scott McCutchan
Lab Manager
Compatible Electronics, Inc.

1. PURPOSE

This test report describes the electromagnetic emissions tests performed and the results obtained on the equipment described herein, based on the emission data measured by Compatible Electronics personnel. The measurements were performed according to the ANSI C63.4 1992 measurement procedure to determine whether the electromagnetic emissions from the equipment tested are within the specification limits defined by FCC Title 47, Part 15, Subpart C., Section 15.247.

## 2. DESCRIPTION OF TEST SAMPLE

The components of the EUT were tested separately.

Specifics of the EUT and Peripherals Tested

The 2.44 GHz RadioWire Modem Model: RCC0001 (EUT) was placed on the wooden table and tested in three orthogonal axis. The low (channel 1), medium (channel 3), and high (channel 5) channels were tested. The EUT was connected to and powered by a Network Interface Module via its power port. The EUT was transmitting on a continuous basis and sending information to the Network Interface Module. The radiated and conducted data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix B.

**Note:** Three different antennas were tested with the EUT (Helical, 0.6 Meter Dish, and 1.0 Meter Dish). Complete data for the harmonics was taken for all antennas, while for the spurious, the 1.0 Meter Dish antenna was found to be the worst case and final data was taken with this antenna. More information about the each antenna can be found in Exhibit 7 of this package along with the duty cycle information and schematics.

3. PROCESSING GAIN

The Processing Gain was measured using the CW jamming margin method. Figure 1a shows the test configuration. The test consists of stepping a signal generator at 60 equal increments across the passband of the system (up to 12.8 MHz away from the center frequency). The passband of the system is 25.6 MHz (±12.8 MHz). At each point, the generator level required to produce the recommended Bit Error Rate (BER) (Set at BER=10 to the negative sixth power) is recorded. This level is the jamming level. The output power of the transmitter unit is measured at the same point. The Jammer to Signal (J/S) ratio is then calculated. Discard the worst 20% of the J/S data point. The lowest remaining J/S ratio is used to calculate the processing gain. The maximum implementation loss a system can claim in calculating processing gain is 2 dB. The equation to calculate the processing gain (Gp) is the following:

$$Gp=(S/N)o + Mj + Lsys$$

Where Lsys = system implementation loss = 2dB
Mj = jamming margin (J/S) in dB,
(S/N)o = signal to noise ratio required for a OQPSK system with BER of 10 to the negative sixth power.

The theoretical GP is 15 dB

4. TRANSMITTER

The transmitter takes the filtered I / Q channel data from the Spread Spectrum Controller board which are modulated into a 2.4 GHz carrier by using a Quadrature Phase Shift Keying (QPSK) modulator (see Block Diagram, Transceiver board, U3). The resulting signal is amplified, amplitude level adjusted, and filtered before going through a Transmit/Receive (T/R) switch that allows the antenna to be shared by the transmitter and receiver. The signal is bandpass filtered prior to reaching the antenna. The transmit level is factory set to a maximum output of +24 dBm.

5. TRANSMITTER POWER

Transmit power is herein defined as the power delivered to a 50 Ohm load at the proprietary antenna connector on the RadioWire unit. The power output is adjustable between +24 dBm and –4 dBm using an internal programmable attenuator in approximately 2 dB steps.

6. CHANNEL NUMBER AND FREQUENCIES

The RF channels occupy the frequency band 2414.00-2468.40 MHz and are numbered 1 to 5.

| Channel Number | Channel center Frequency (MHz) |
|---|---|
| 1 | 2414.00 |
| 2 | 2426.80 |
| 3 | 2441.20 |
| 4 | 2455.60 |
| 5 | 2468.40 |

7. CHIPPING RATE

A 32,768 bit chipping code is used. The chipping code is clocked at a 12.8 MHz rate.

8. SPREADING GAIN

The spreading gain is 15 dB.

9. ANTENNA GAIN

The antenna gain for the helical antenna is +14 dBi.
The antenna gain for the 0.6 meter dish antenna is +20 dBi
The antenna gain for the 1.0 meter dish antenna is +24 dBi

10. TEST EQUIPMENT

The test equipment used during the test described in this report are listed in Table 1.

Test Equipment Modes and Settings

Conducted Test

The HP 8566B spectrum analyzer was used as a measuring meter along with the HP 85650A quasi-peak adapter. The data was collected by the spectrum analyzer in peak detect mode with the "Max Hold" feature activated. The quasi-peak detection was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the spectrum analyzer input stage protection and the program settings were adjusted accordingly to indicate the actual reading in the program output. One LISN output was read by the HP 8566B spectrum analyzer at a time while the output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Radiated Test

The HP 8566B spectrum analyzer was used as a measuring meter along with the HP 85650A quasi-peak adapter.

The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak detection was used only for those readings which are marked accordingly in the data sheet. The effective measurement bandwidth used for the radiated emissions test was 200 Hz from 10 kHz to 150 kHz, 9 kHz from 150 kHz to 30 MHz, 120 kHz from 30 MHz to 1 GHz, and 1 MHz from 1 GHz to 25 GHz.

Broadband active loop, biconical, log periodic and horn antennas were used as transducers during the measurement. The frequency spans were wide (10 kHz - 150 kHz, 150 kHz - 10 MHz, 10 MHz - 30 MHz, 30 - 88 MHz, 88 - 216 MHz, 216 - 300 MHz, 300 MHz - 1 GHz, 1 GHz - 2 GHz, 2 GHz - 10 GHz, 10 GHz - 22 GHz, and 22 GHz - 24.5 GHz) during preliminary investigations. However, the final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary. For the 22 GHz - 25 GHz span a harmonic mixer was used to allow the analyzer to see up to 25 GHz.

TABLE 1 LIST OF TEST EQUIPMENT FOR EMI

| EQUIPMENT TYPE | MANU-FACTURER | MODEL NUMBER | SERIAL NUMBER | CAL. DATE | CAL. CYCLE |
|---|---|---|---|---|---|
| Spectrum Analyzer | Hewlett Packard | 8566B | 2729A04566 | July 2, 1997 | 1 Year |
| Preamplifier | Com Power | PA-102 | 1017 | February 16, 1998 | 1 Year |
| Quasi-Peak Adapter | Hewlett Packard | 85650A | 2521A00924 | June 16, 1997 | 1 Year |
| RF Attenuator | Com-Power | A-410 | 1602 | Nov. 25, 1997 | 1 Year |
| LISN | Com Power | LI-200 | 1764 | January 3, 1998 | 1 Year |
| LISN | Com Power | LI-200 | 1771 | January 3, 1998 | 1 Year |
| Biconical Antenna | Com Power | AB-100 | 1548 | March 24, 1998 | 1 Year |
| Log Periodic Antenna | Com Power | AL-100 | 1012 | February 13, 1998 | 1 Year |
| Computer | Hewlett Packard | HP98561A | 2522A05178 | N/A | N/A |
| Microwave Amplifier | Com-Power | PA-122 | 001 | March 31, 1998 | N/A |
| Horn Antenna | Antenna Research | DRG-118/A | 1053 | December 8, 1995 | N/A |
| Loop Antenna | Com-Power | AL-130 | 25309 | February 5, 1998 | N/A |
| Plotter | Hewlett Packard | 7440A | 8726K38417 | N/A | N/A |
| Horn Antenna | Antenna Research | MWH-1826/B | 1004 | December 5, 1994 | N/A |
| Harmonic Mixer | Hewlett Packard | 11970K | 3003A05460 | February 25, 1998 | 1 Year |
| Amplifier | Hewlett Packard | 11975A | 2403A00202 | Nov. 12, 1997 | 1 Year |
| High-Pass Filter | Microwave Circuits, Inc. | H30G08G1 | N/A | N/A | N/A |

TABLE 2 LIST OF TEST EQUIPMENT FOR PROCESSING GAIN

| EQUIPMENT TYPE | MANU-FACTURER | MODEL NUMBER | SERIAL NUMBER | CAL. DATE | CAL. CYCLE |
|---|---|---|---|---|---|
| Pattern Generator / Error Detector | Hewlett Packard | 3780A | 2224U02558 | N/A | N/A |
| Signal Generator | Hewlett Packard | 8648C | 3443U00242 | N/A | N/A |
| Pattern Generator / Error Detector | Hewlett Packard | 3780A | 1637U00244 | N/A | N/A |
| Coaxial Direct Coupler | Narda | 3003-20-01 | 005 | N/A | N/A |
| Splitter | Mini Circuits | ZFSC-2-2500 | N/A | N/A | N/A |
| Power Meter | Hewlett Packard | 437B | 3125013310 | N/A | N/A |
| Power Sensor | Hewlett Packard | 8481H | 3318A16294 | N/A | N/A |
| Spectrum Analyzer | Hewlett Packard | 8563E | N/A | N/A | N/A |

11. TEST PROCEDURE

Conducted Test

Test Setup

The EUT was set up as a table top equipment as shown in Figure 1. The test data was collected using the Hewlett Packard spectrum analyzer Model: 8566B and the Hewlett-Packard quasi-peak adapter Model: 85650A.

The conducted test for the table top EUT was performed on a 1.0 by 1.5 meter wooden test table. (see Figure 1). The test bench has its top surface 0.8 meter above the ground plane. The EUT is powered through the Line Impedance Stabilization Network (LISN) bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up on the rear of the wooden test bench 40 cm away from the vertical conductive surface and at least 80 cm away from the LISNs as specified in ANSI C63.4 1992. The excess power cord was wrapped in a figure 8 pattern to form a bundle approximately 8 cms in length.

Preliminary Conducted Test

The initial test data was taken in manual mode to investigate the worst emission configuration. While scanning the frequencies in the ranges of 0.45 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz, the conducted emissions from the EUT were investigated for maximizing operating mode as well as cable placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

Final Conducted Data

The EUT configuration was set for the highest emission frequency and data was collected under program control by the HP 9153B controller for the conducted test. The data was collected by the HP controller in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave.

The spectrum analyzer collected the maximum peak readings over each spectrum. The six highest emission levels and corresponding frequencies were sorted by the computer and are listed in Table 2.0.

Radiated Test

The open field test site of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is set up according to the ANSI C63.4 1992 and the site attenuation data has been filed with the FCC. Figure 2 shows the layout of the open field test site. The turntable is remote controlled using a motor. The turn table supporting the EUT permits EUT rotation over 360 degrees to determine the highest emission levels. The antenna mast allows height variation of the antenna from 1 meter to 4 meters.

Preliminary Testing and Monitoring

Preliminary testing was done at a distance of 3 meters to determine the predominant frequencies from the system and to investigate the EUT configuration that produced the maximum levels of emissions. An open field test site was used for the preliminary investigations. Broad band antennas were used to scan large frequency bands while manipulating cables. All significant frequencies were further examined carefully at a reduced frequency span on the spectrum analyzer, while optimizing the cables, and changing the antenna height and EUT orientation. The EUT was tested at a 3 meter test distance to obtain final test data as described below.

Final Radiated Test

The receiving antenna was mounted on the antenna positioning mast, which is motor controlled and allows antenna height variation from 1 meter to 4 meters above the ground plane. The antenna height was varied to find the highest level of radiated emission at each frequency found during the preliminary test described above. The six highest emission readings and the corresponding frequencies for non-harmonic spurious emissions (excluding the fundamental) are listed in Table 3.0 for the base and Table 4.0 for the handset. The six highest emission readings and the corresponding frequencies for the fundamental and harmonics are listed in Table 5.0 for the helical antenna, Table 6.0 for the 0.6 meter dish antenna, and Table 7.0 for the 1.0 meter dish antenna.

Processing Gain

The Transmitting EUT was connected to the Network Interface Module. The Network Interface Module was connected to the Hewlett Packard 3780A Pattern Generator/Error Detector. 40 dB of attenuation was placed on the output of the base. The output of the Transmitting EUT was combined with the output of the signal generator through a combine. The Receiving EUT was connected to the Network Interface Module. The Network Interface Module was connected to the Hewlett Packard 3780A Pattern Generator/Error Detector. The signal generator was stepped in 426.666 kHz increments across the passband (± 12.8 MHz of the fundamental transmit frequency). The Bit Error Rate used was 0.0001%. When this error rate was achieved (displayed on the Pattern Generator/Error Detector), the reading of the signal generator was taken. This reading was then subtracted from the signal level of the Transmitting EUT (while adding in the combine loss and cable loss) to obtain the J/S ratio. The J/S ratio was then combined with the system loss (2 dB) and signal to noise ratio (13 dB) of the unit to obtain the processing gain. A figure of the test setup is shown in Figure 1a.

Transceiver Requirements Per Section 15.247 (FCC- Subpart C).

Both the handset and the base have a bandwidth of at least 500 kHz. The bandwidth is measured at the -TDB points. (Please see data sheets located in Appendix A). [section 15.247 (a)(2)]

Both the handset and the base have a peak output power of less than 1 Watt (30 dBm) [section 15.247 (b)]

No radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency is within 20 dB of the limit or exceeds the general radiated emission limits specified in section 15.209(a) while using a 100 kHz bandwidth. (Please see the data sheets located in Appendix A.) [section 15.247 (c)].

The spectral density output averaged over any 1 second interval using a resolution bandwidth of 3 kHz is not greater than 8dBm for both the handset and the base. (Please see data sheets located in Appendix A.) [section 15.247 (d)].

The processing gain of a direct sequence system is at least 10 dB. (Please see data sheets located in Appendix A) [section 15.247 (e)]

12. TEST RESULTS

Table 3.0 CONDUCTED EMISSION RESULTS
2.44 GHz RadioWire Modem
MODEL: RCC0001

| Frequency MHz | Emission Level* dBuV | Specification Limit dBuV | Delta dB |
|---|---|---|---|
| .6455 | 43.1 | 48.0 | -4.9 |
| 3.371 | 43.1 | 48.0 | -4.9 |
| 4.193 | 43.1 | 48.0 | -4.9 |
| 4.776 | 42.8 | 48.0 | -5.2 |
| 9.745 | 42.8 | 48.0 | -5.2 |
| 25.69 | 45.8# | 48.0 | -2.2 |

Table 4.0 RADIATED EMISSION RESULTS (SPURIOUS)
2.44 GHz RadioWire Modem
MODEL: RCC0001

| Freq. MHz | Meter Reading dBuV | Effective Gain dB | Ant. Factor dB | Corr'd Reading dBuV | Spec Limit dBuV | Delta dB |
|---|---|---|---|---|---|---|
| 48.55 | 60.60 | 38.41 | 11.50 | 33.69 | 40.00 | -6.31 |
| 51.26 | 63.00 | 38.38 | 11.40 | 36.02 | 40.00 | -3.98 |
| 76.86 | 61.30 | 37.69 | 9.11 | 32.72 | 40.00 | -7.28 |
| 195.45 | 55.00 | 37.53 | 15.58 | 33.05 | 43.50 | -10.45 |
| 600.01 | 58.10 | 35.50 | 18.70 | 41.30 | 46.00 | -4.70 |
| 1689 | 53.90 | 28.20 | 24.50 | 50.20 | 54.00 | -3.80 |

* Complete emissions data are given in Appendix A of this report.

** The effective gain factor includes the cable loss. The correction factors for the antenna and effective gain are attached in Appendix C of this report.

\# Quasi-Peak Reading

Table 5.0 RADIATED EMISSION RESULTS (HARMONICS)
2.44 GHz RadioWire Modem – Helical Antenna
MODEL: RCC0001

| Freq. MHz | Meter Reading dBuV | Effective Gain dB | Ant. Factor dB | Corr'd Reading dBuV | Spec Limit dBuV | Delta DB |
|---|---|---|---|---|---|---|
| | | NO | HARMONICS | FOUND | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Table 6.0 RADIATED EMISSION RESULTS (HARMONICS)
2.44 GHz RadioWire Modem – 0.6 Meter Dish Antenna
MODEL: RCC0001

| Freq. MHz | Meter Reading dBuV | Effective Gain dB | Ant. Factor dB | Corr'd Reading dBuV | Spec Limit dBuV | Delta DB |
|---|---|---|---|---|---|---|
| 4833 | 27.0# | 21.3 | 32.3 | 38.0 | 54.0 | -16.0 |
| 4887 | 30.3# | 21.3 | 32.3 | 41.3 | 54.0 | -12.7 |
| 4925 | 30.8# | 21.3 | 32.3 | 41.8 | 54.0 | -12.2 |
| | | NO | OTHER | HARMONICS | FOUND | |
| | | | | | | |
| | | | | | | |

* Complete emissions data are given in Appendix A of this report.

** The effective gain factor includes the cable loss. The correction factors for the antenna and effective gain are attached in Appendix C of this report.

\# Average Measurement based on 20*(log Duty Cycle %). The Duty Cycle is 50 %.

Table 7.0 RADIATED EMISSION RESULTS (HARMONICS)
2.44 GHz RadioWire Modem – 1.0 Meter Dish Antenna
MODEL: RCC0001

| Freq. MHz | Meter Reading dBuV | Effective Gain dB | Ant. Factor dB | Corr'd Reading dBuV | Spec Limit dBuV | Delta DB |
|---|---|---|---|---|---|---|
| 4833 | 35.5# | 21.3 | 32.3 | 46.5 | 54.0 | -7.5 |
| 4883 | 31.9# | 21.3 | 32.3 | 42.9 | 54.0 | -11.1 |
| 4922 | 29.2# | 21.3 | 32.3 | 40.2 | 54.0 | -13.8 |
| 7324 | 29.9# | 20.6 | 36.8 | 46.1 | 54.0 | -7.9 |
| 7386 | 30.8# | 20.6 | 36.8 | 47.0 | 54.0 | -7.0 |
| | | NO | OTHER | HARMONICS | FOUND | |

* Complete emissions data are given in Appendix A of this report.

** The effective gain factor includes the cable loss. The correction factors for the antenna and effective gain are attached in Appendix C of this report.

# Average Measurement based on 20*(log Duty Cycle %). The Duty Cycle is 50 %.

13. SAMPLE CALCULATIONS

The use of the Com-Power Preamplifier Model: PA-102 and the Com Power Microwave Amplifier Model: PA-122 during the radiated emissions test requires that the effective gain must be subtracted from the spectrum analyzer (meter) reading. In addition, a correction factor for the antenna, amplifier, cable loss, and a distance factor, if any, must be applied to the meter reading before a true field strength reading can be obtained.

The equation can be derived in the following manner:

Corrected meter reading = meter reading + F - G

where, F = antenna factor
G = effective gain = (amplifier gain-cable loss)

The correction factors for the antenna and the effective gain are attached in Appendix C of this report. The data sheets are attached in Appendix A.

There is no correction factor for the distance because the final data is always taken at 3 meters which is the FCC specification test distance.

## 14. CONCLUSION

The 2.44 GHz RadioWire Modem Model: RCC0001 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C Section 15.247.

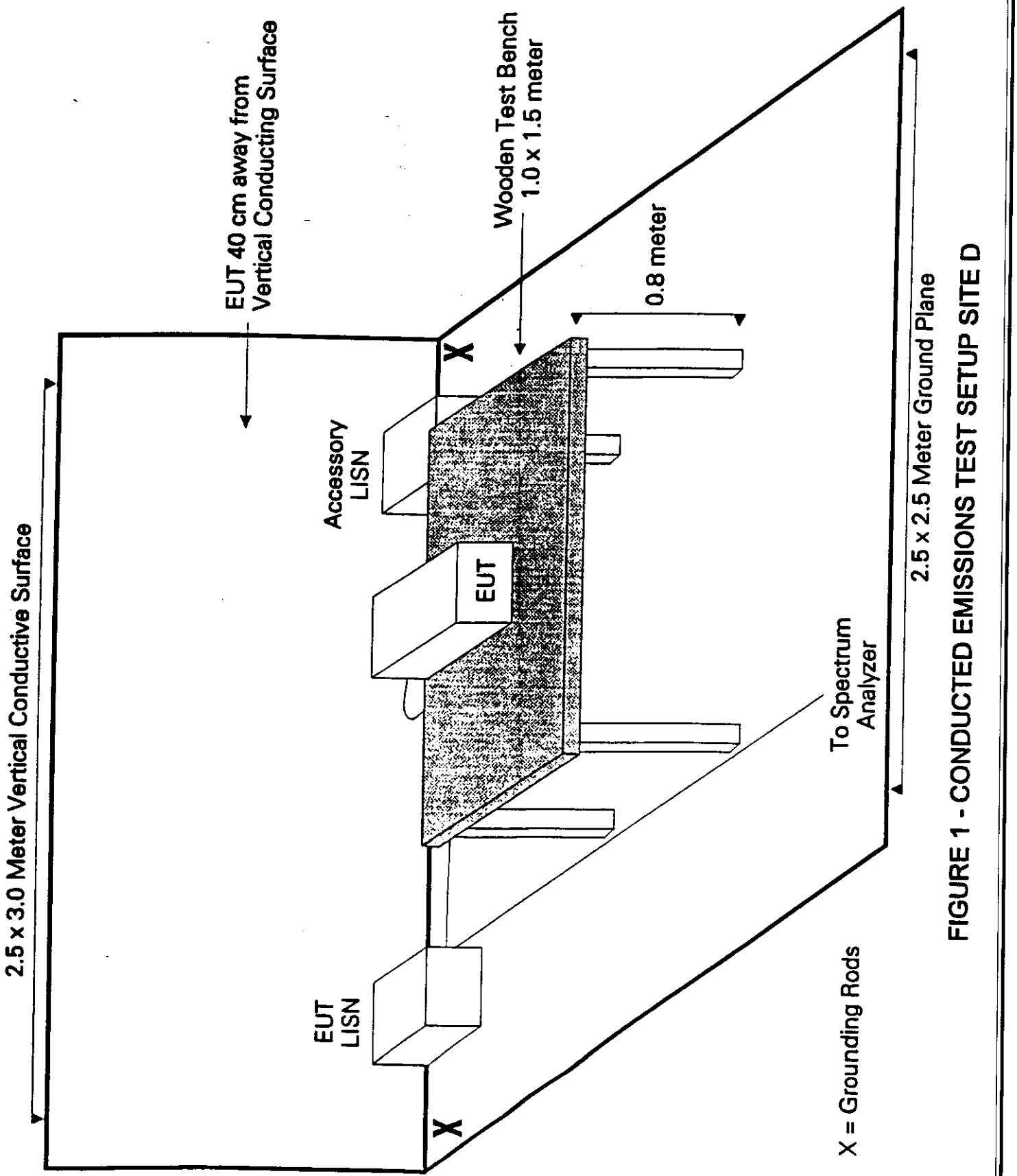



FIGURE 1 - CONDUCTED EMISSIONS TEST SETUP SITE D

# PROCESSING GAIN



**FCC ID: NFX-RCC0001-00**

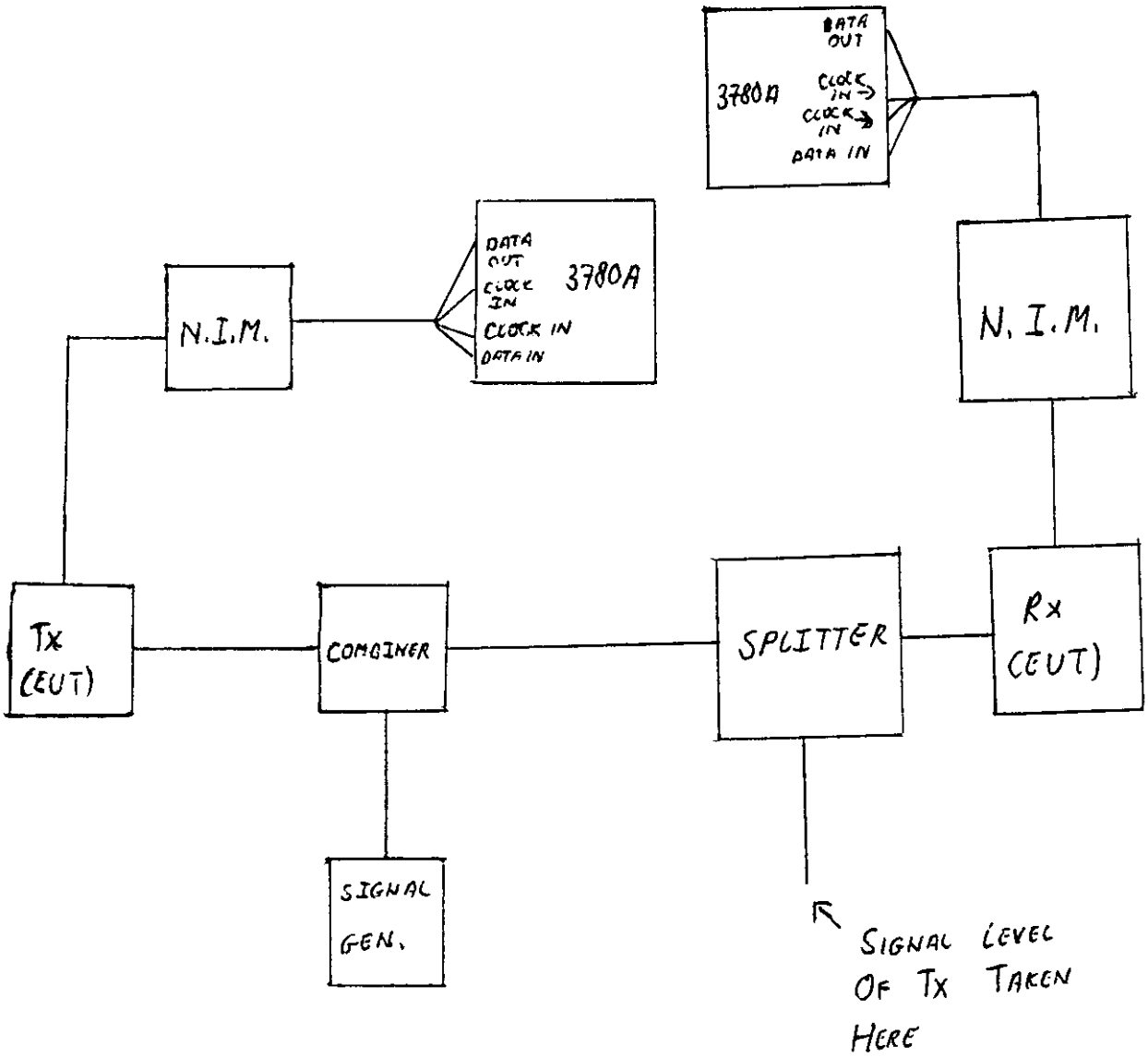



FIGURE 1a

3780 A = PATTERN GENERATOR / ERROR DETECTOR

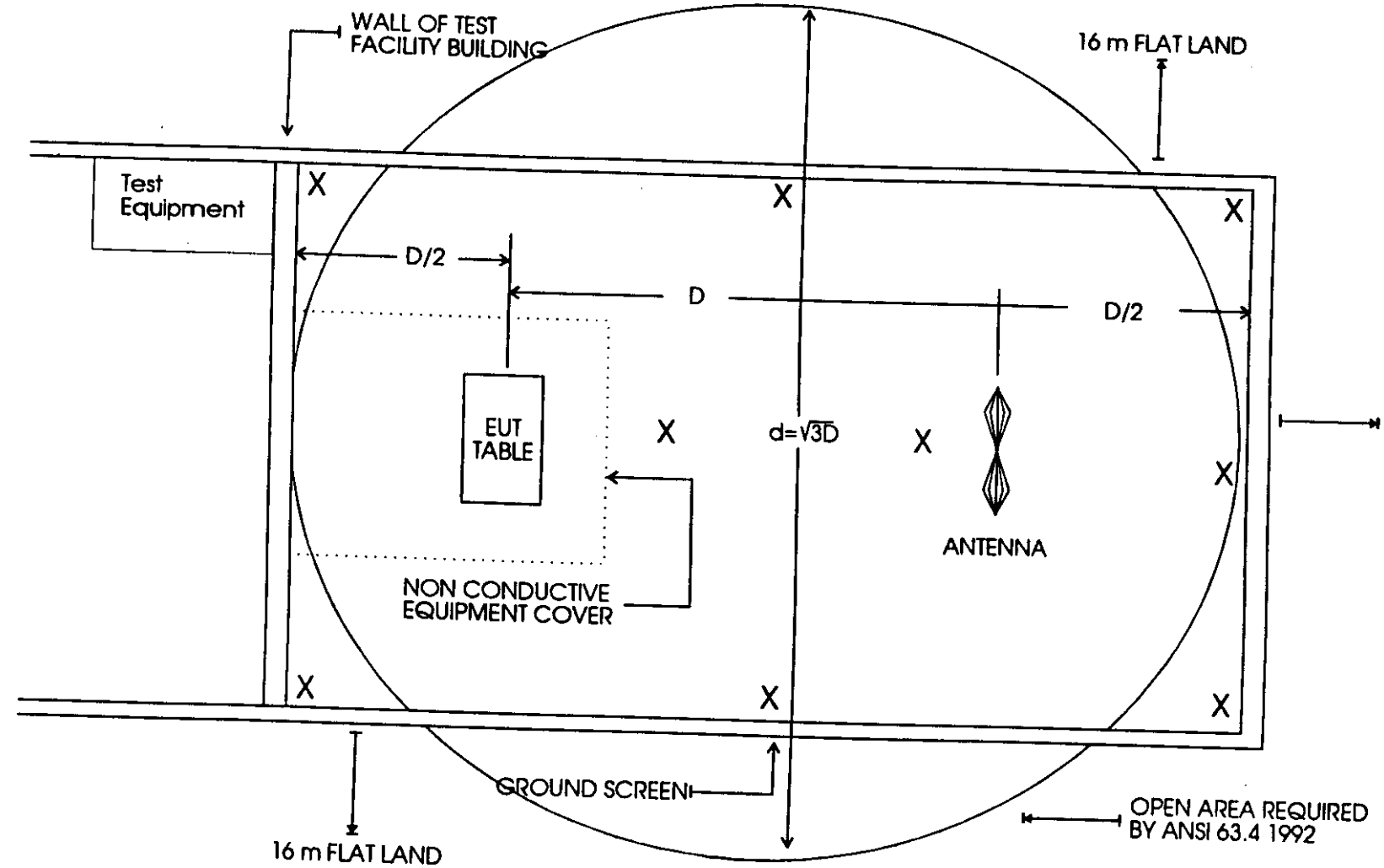



Figure 2: Plot Map and Layout of Test Site "D"

# APPENDIX A

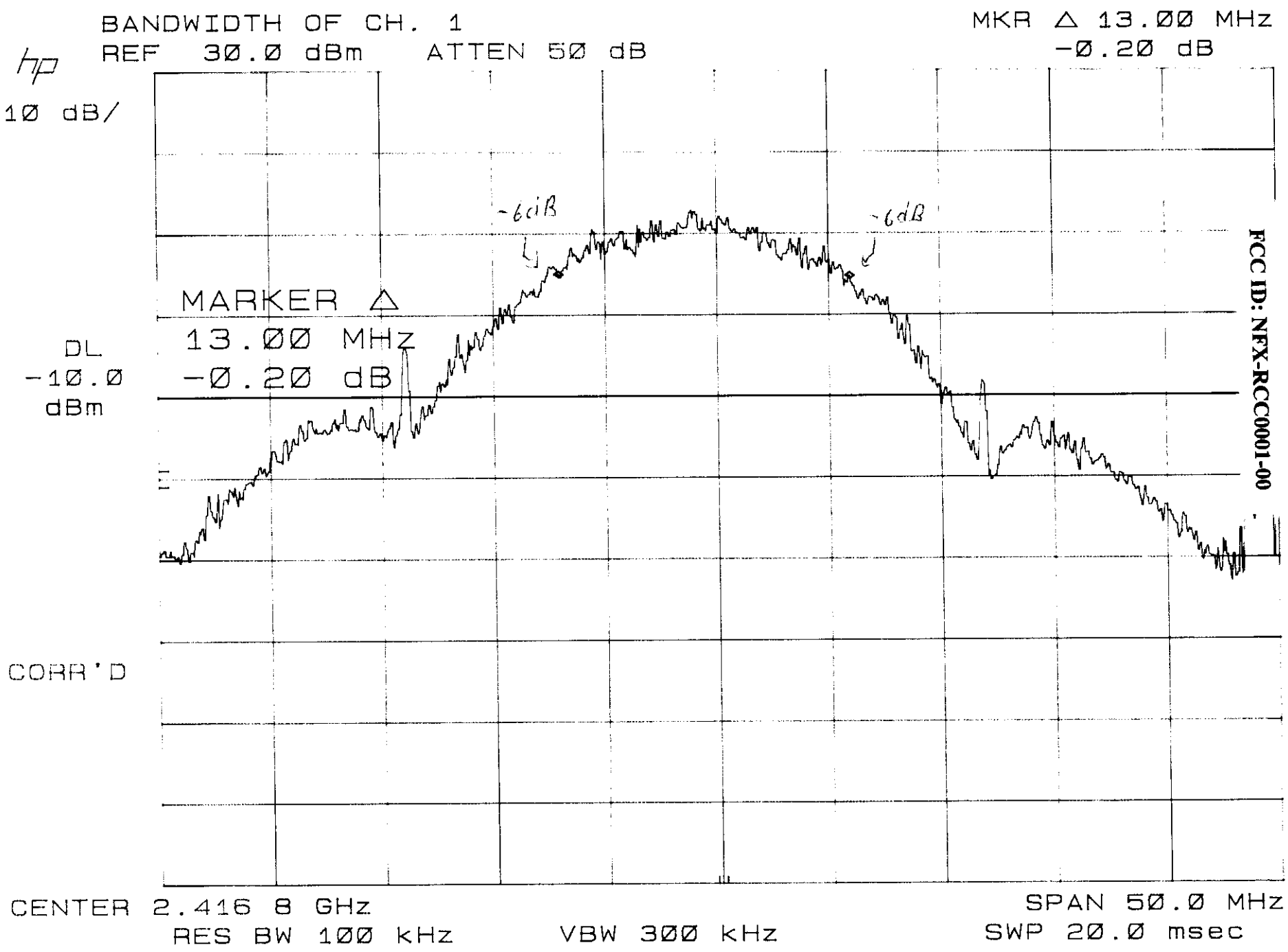
# *DATA SHEETS*

**SECTION 15.247 (a)(2)**

# *BANDWIDTH AT -6dB POINTS*

*PAGE A3 - CHANNEL 1*
*PAGE A4 - CHANNEL 3*
*PAGE A5 - CHANNEL 5*

4-18-98




FCC ID: NFX-RCC0001-00

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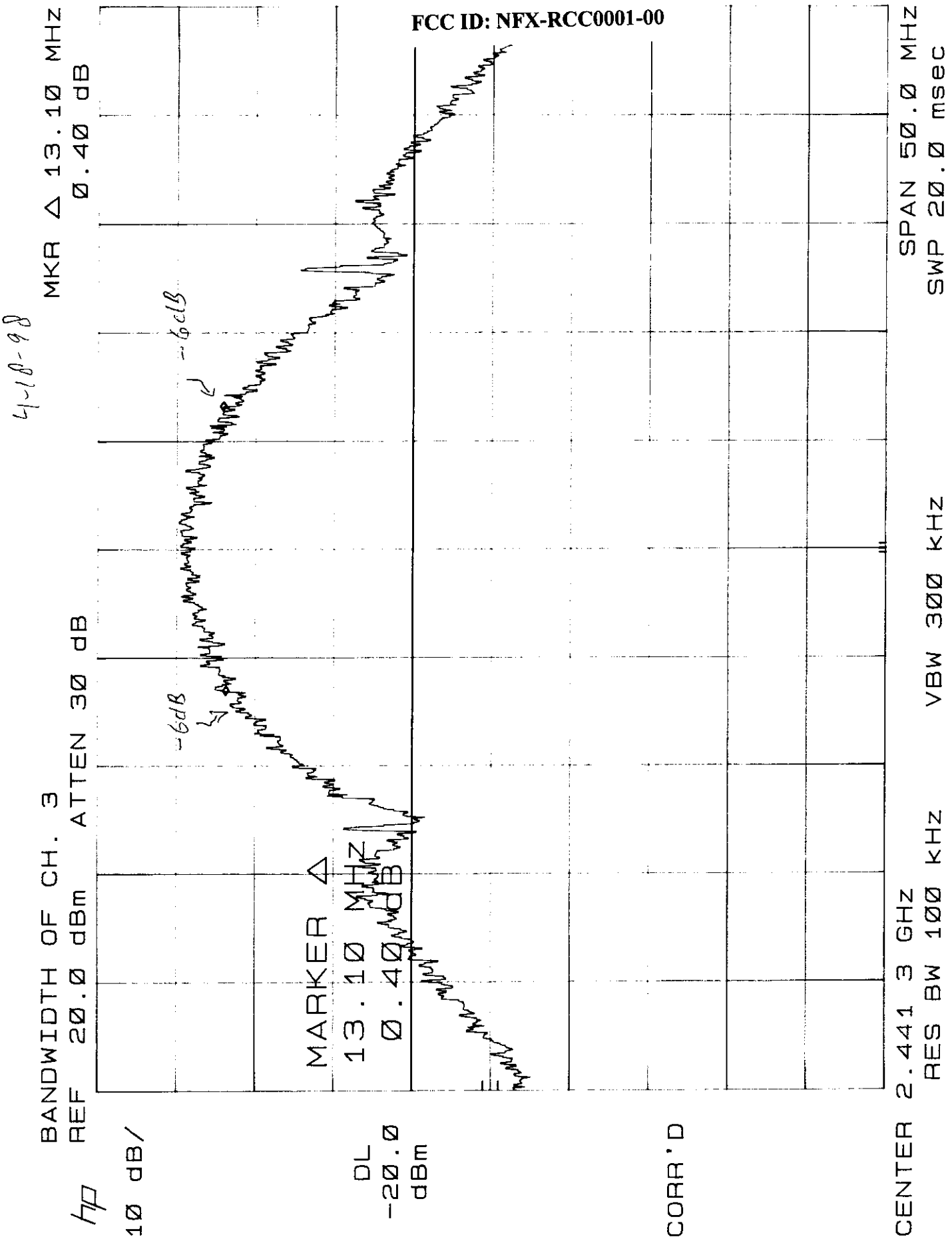
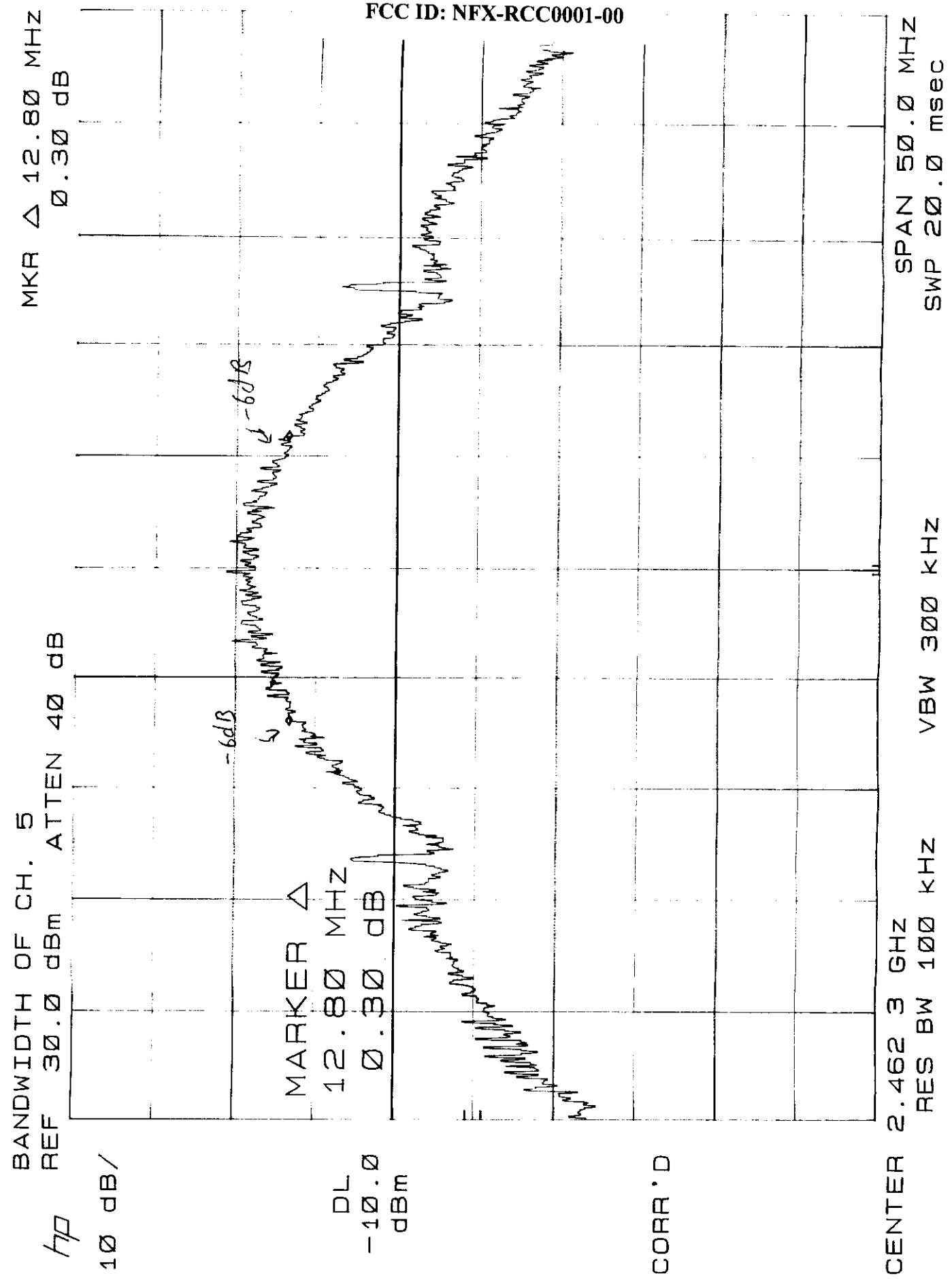

BANDWIDTH OF CH. 3
REF 20.0 dBm ATTEN 30 dB
10 dB/
MKR Δ 13.10 MHz
0.40 dB
-6dB
-6dB
MARKER Δ
13.10 MHz
0.40 dB
DL
-20.0
dBm
CORR'D
CENTER 2.441 3 GHz
RES BW 100 kHz
VBW 300 kHz
SPAN 50.0 MHz
SWP 20.0 msec

4-10-98

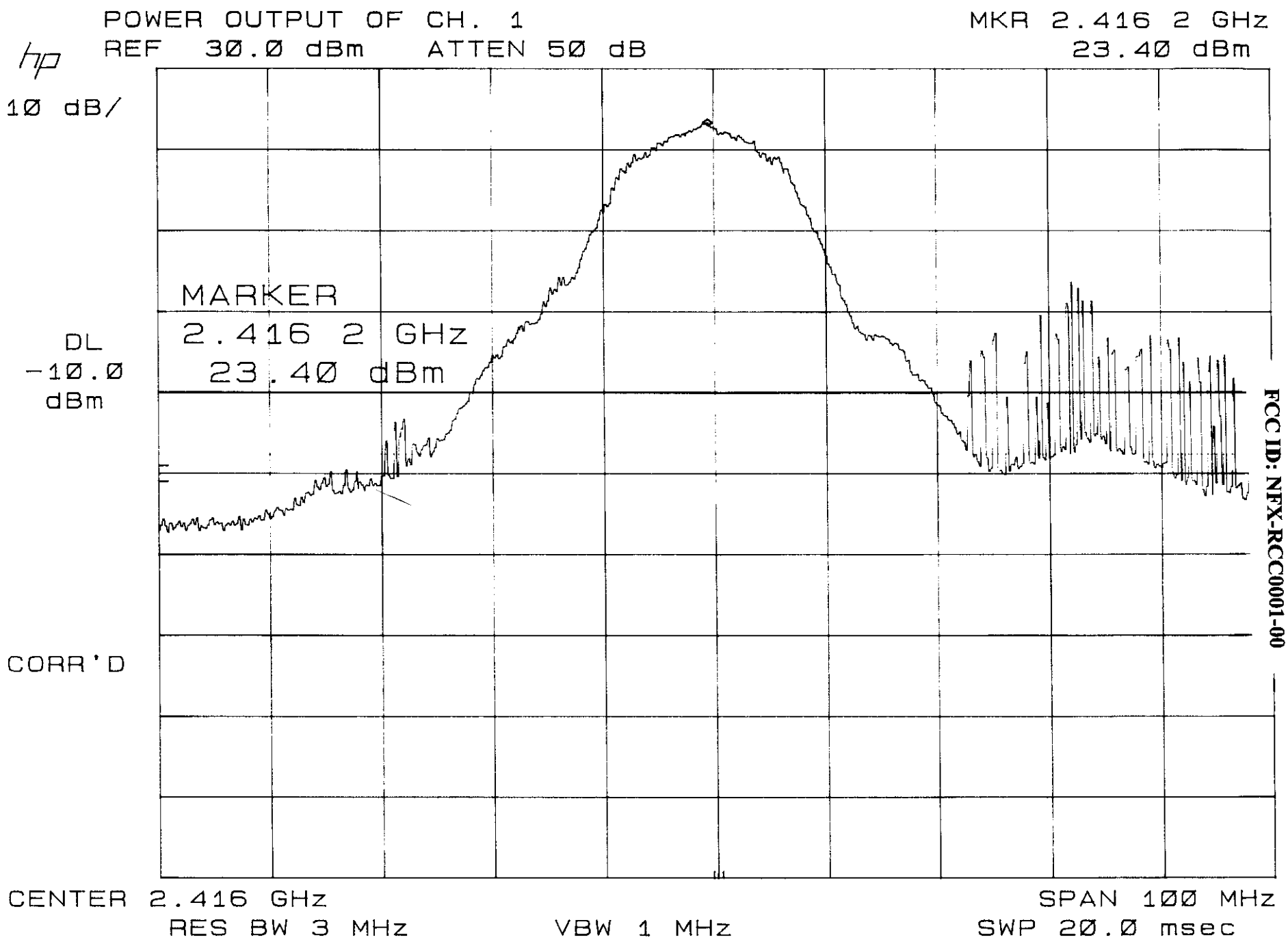

BANDWIDTH OF CH. 5
REF 30.0 dBm ATTEN 40 dB
MKR Δ 12.80 MHz
0.30 dB
MARKER Δ
12.80 MHz
0.30 dB
-6dB
-6dB
10 dB/
DL
-10.0
dBm
CORR'D
CENTER 2.462 3 GHz
RES BW 100 kHz
VBW 300 kHz
SPAN 50.0 MHz
SWP 20.0 msec

**SECTION 15.247 (b)**

# *POWER OUTPUT*

## *PAGE A7 - CHANNEL 1*
## *PAGE A8 - CHANNEL 3*
## *PAGE A9 - CHANNEL 5*

4-18-96

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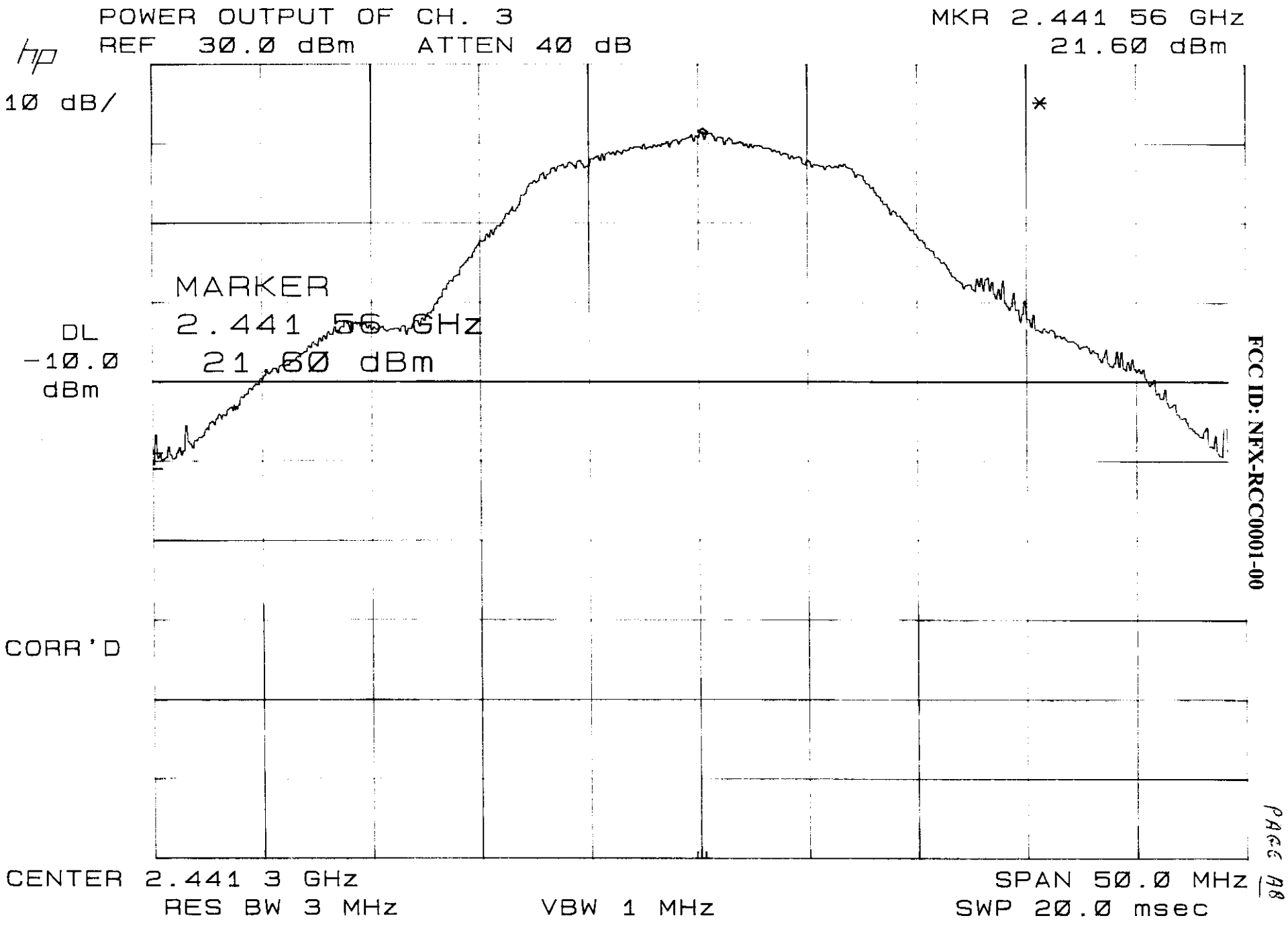


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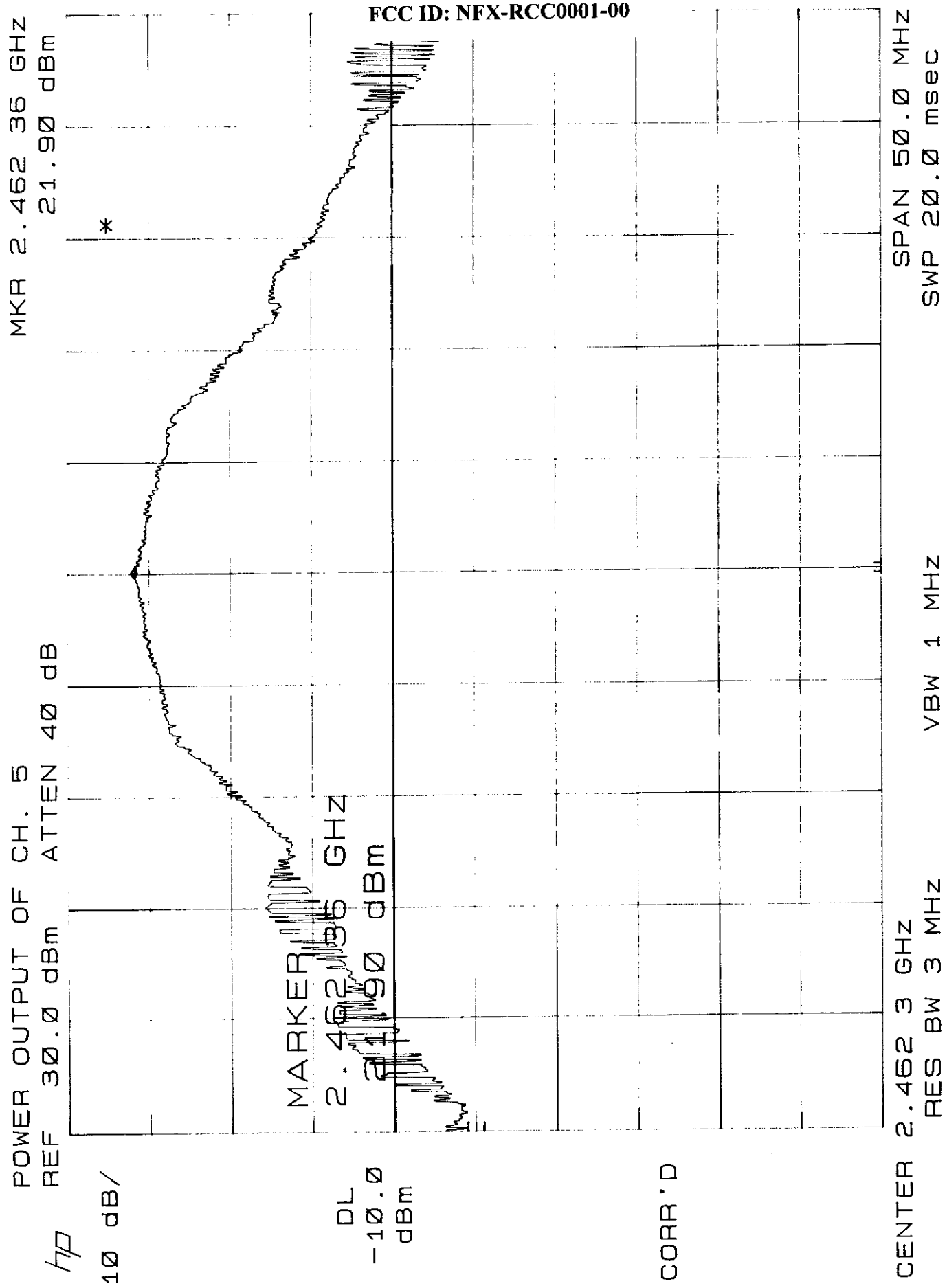
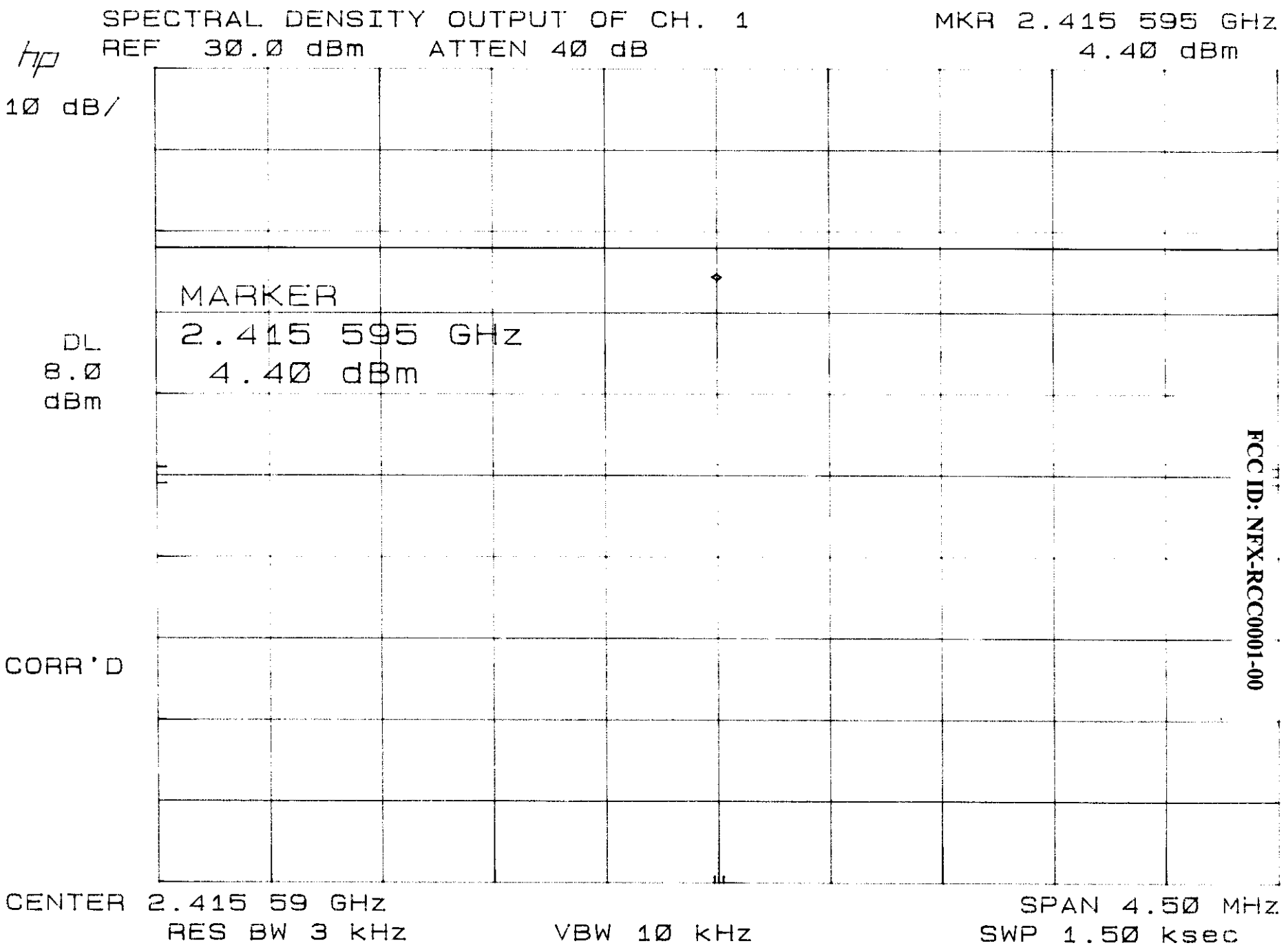

POWER OUTPUT OF CH. 5
REF 30.0 dBm
ATTEN 40 dB
MKR 2.462 36 GHz
21.90 dBm
MARKER 2.462 90 GHz
21.90 dBm
10 dB/
DL
-10.0
dBm
CORR'D
CENTER 2.462 3 GHz
RES BW 3 MHz
VBW 1 MHz
SPAN 50.0 MHz
SWP 20.0 msec

**SECTION 15.247 (d)**

# *SPECTRAL DENSITY OUTPUT*

## *PAGE A11 - CHANNEL 1*
## *PAGE A12 - CHANNEL 3*
## *PAGE A13 - CHANNEL 5*

4-27-98

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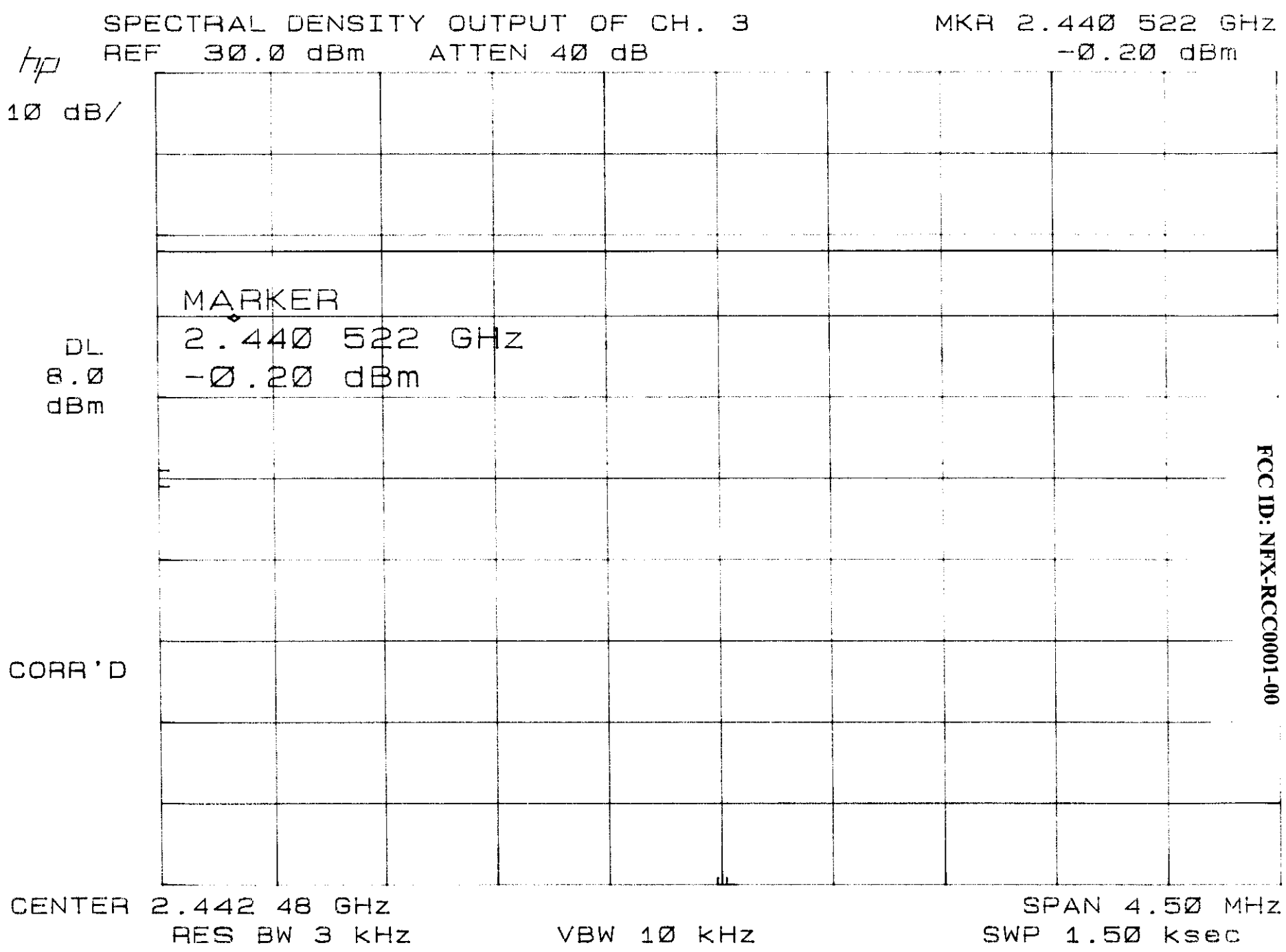


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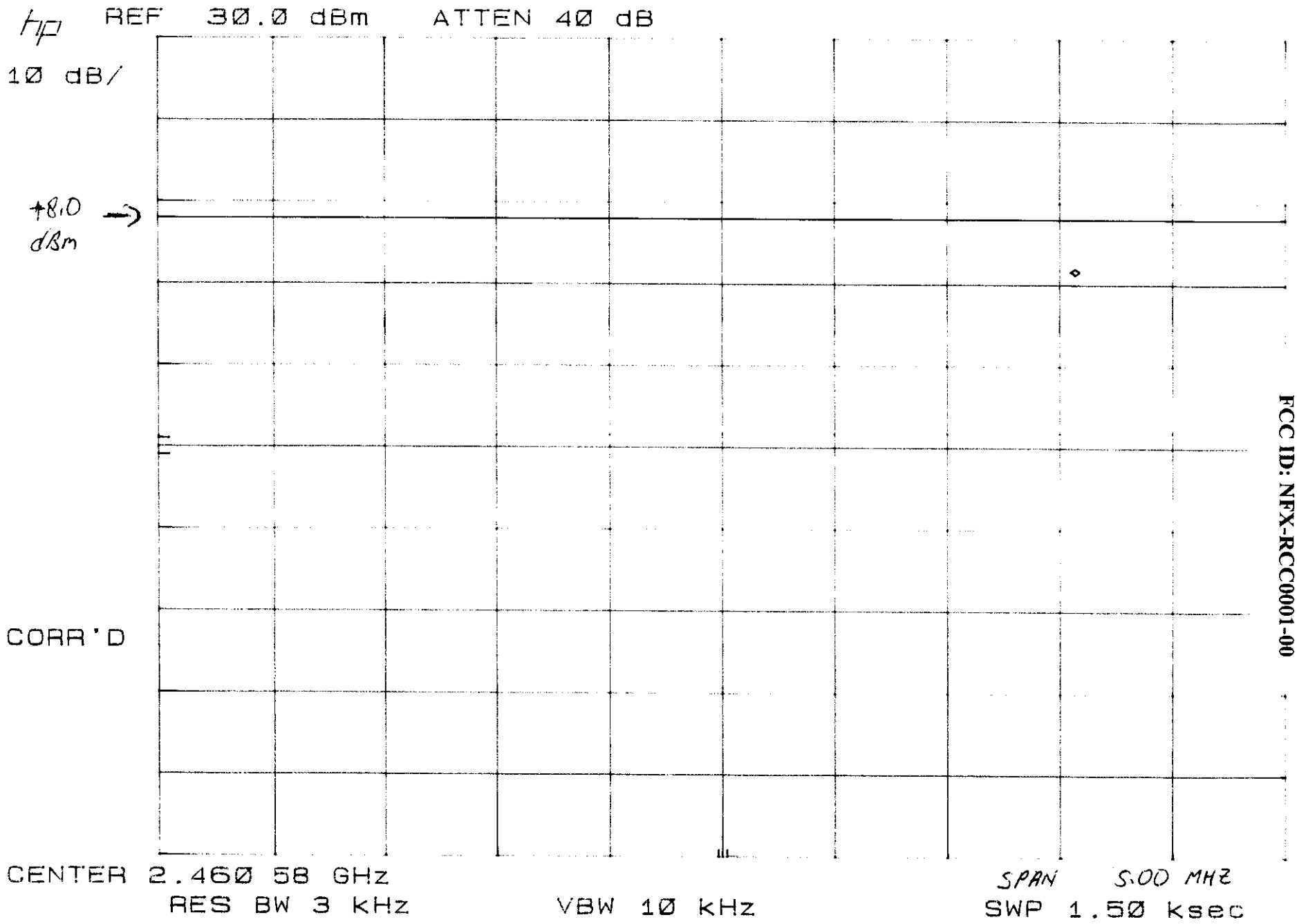
SPECTRAL DENSITY OUTPUT OF CH. 5



**SECTION 15.247 (c)**

# *RF ANTENNA CONDUCTED EMISSIONS TEST*

***PAGES A15-A19 - CHANNEL 1***
***PAGES A20-A23 - CHANNEL 3***
***PAGES A24-A28 - CHANNEL 5***

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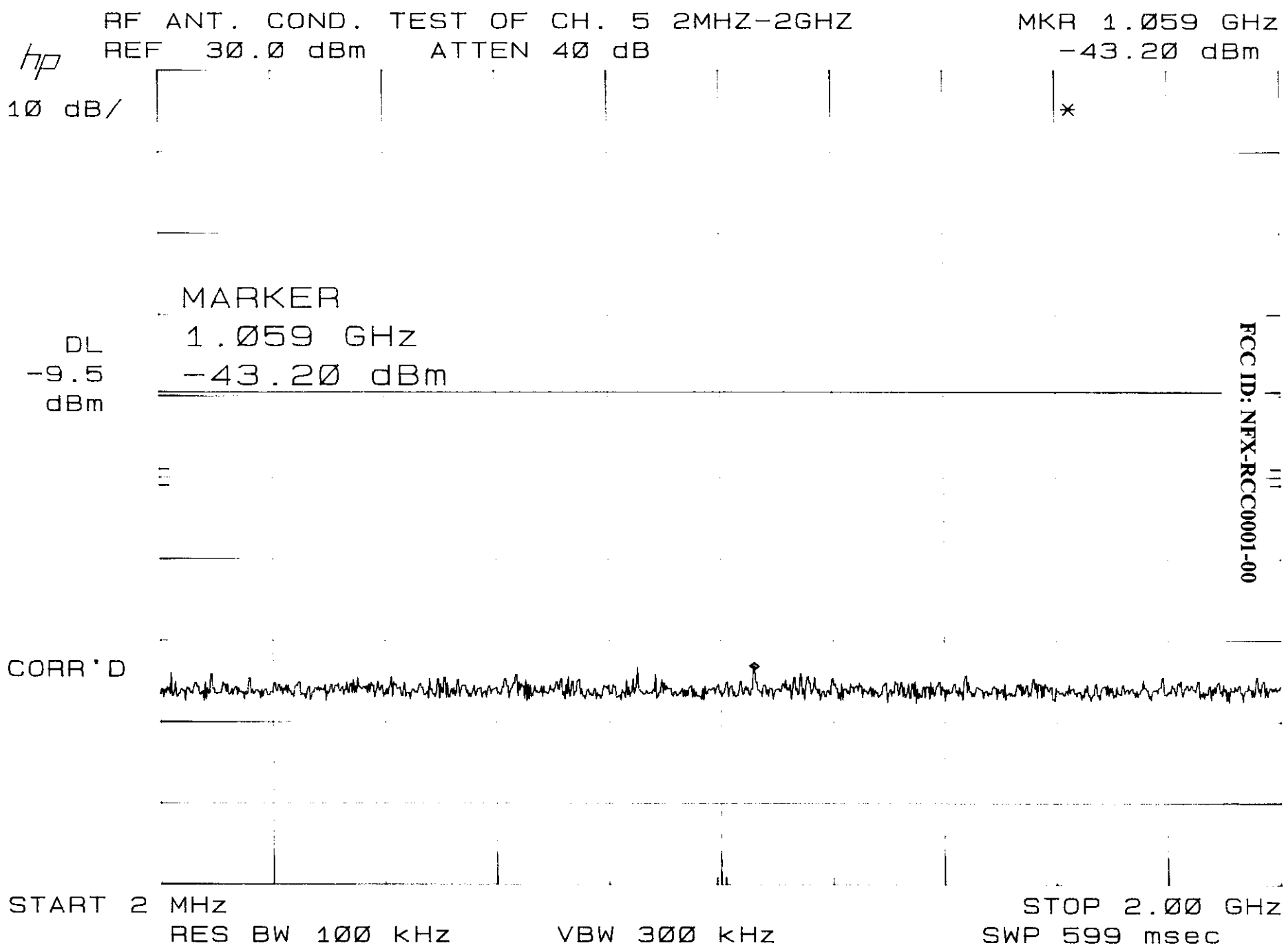


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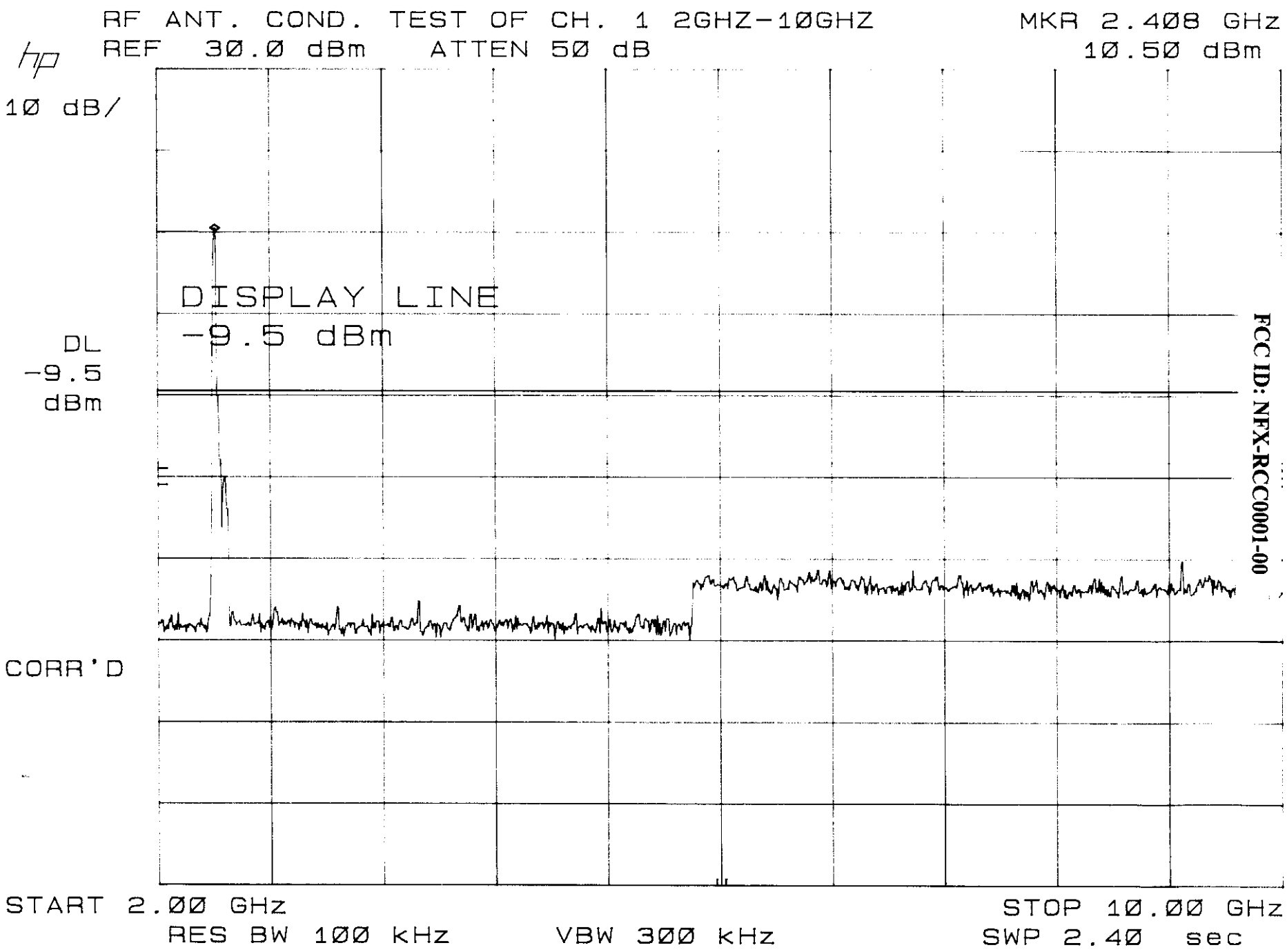


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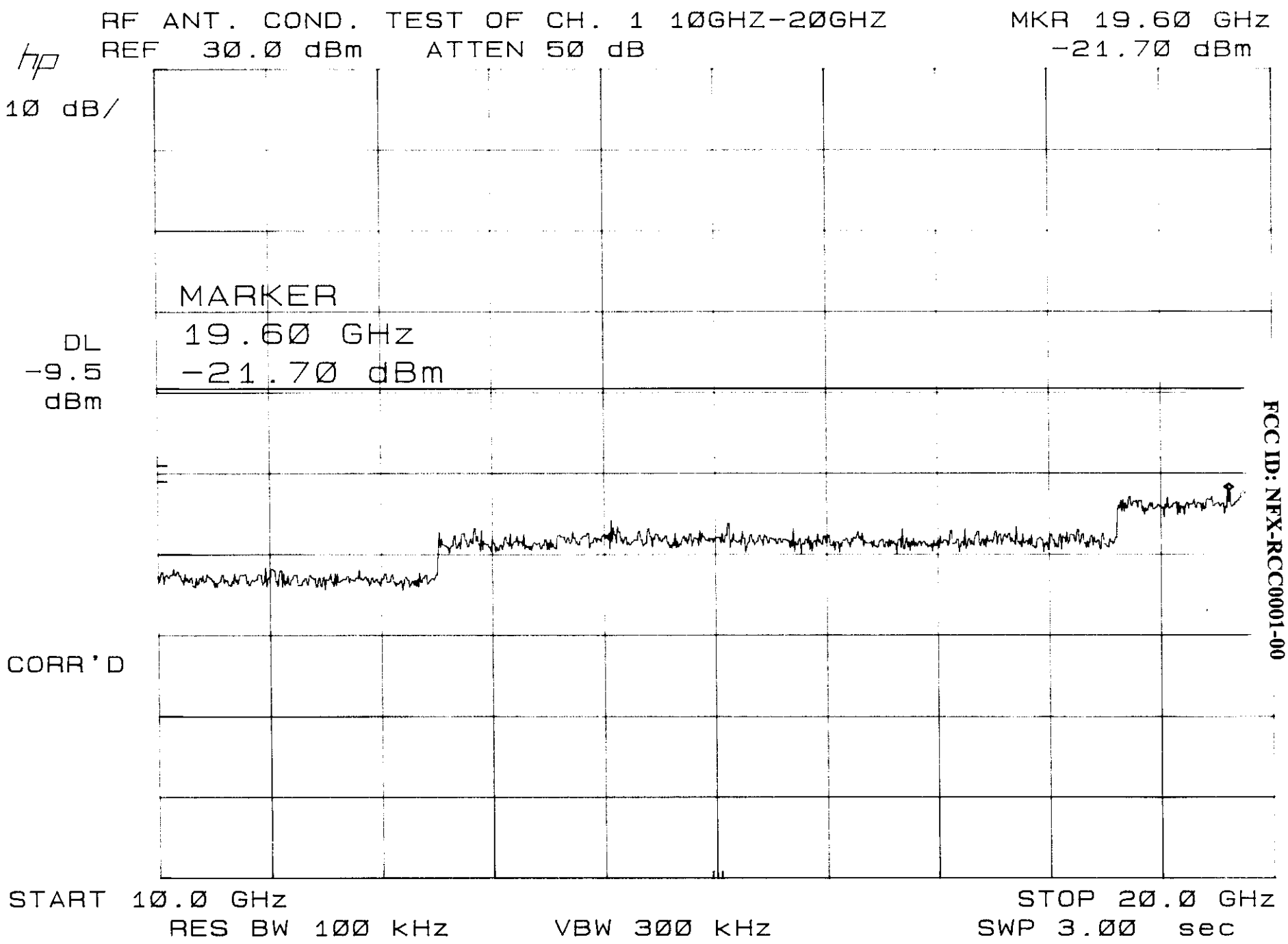


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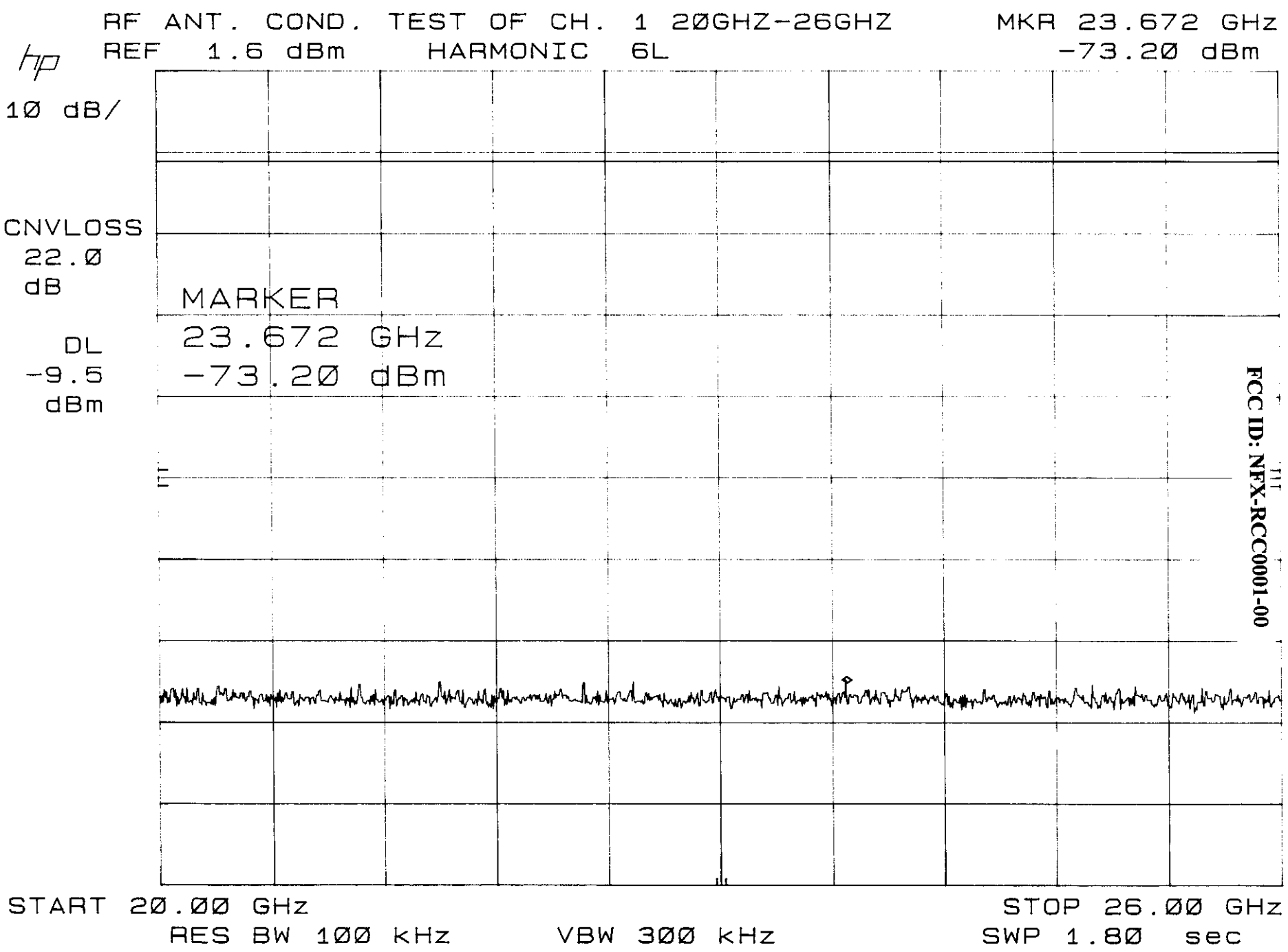


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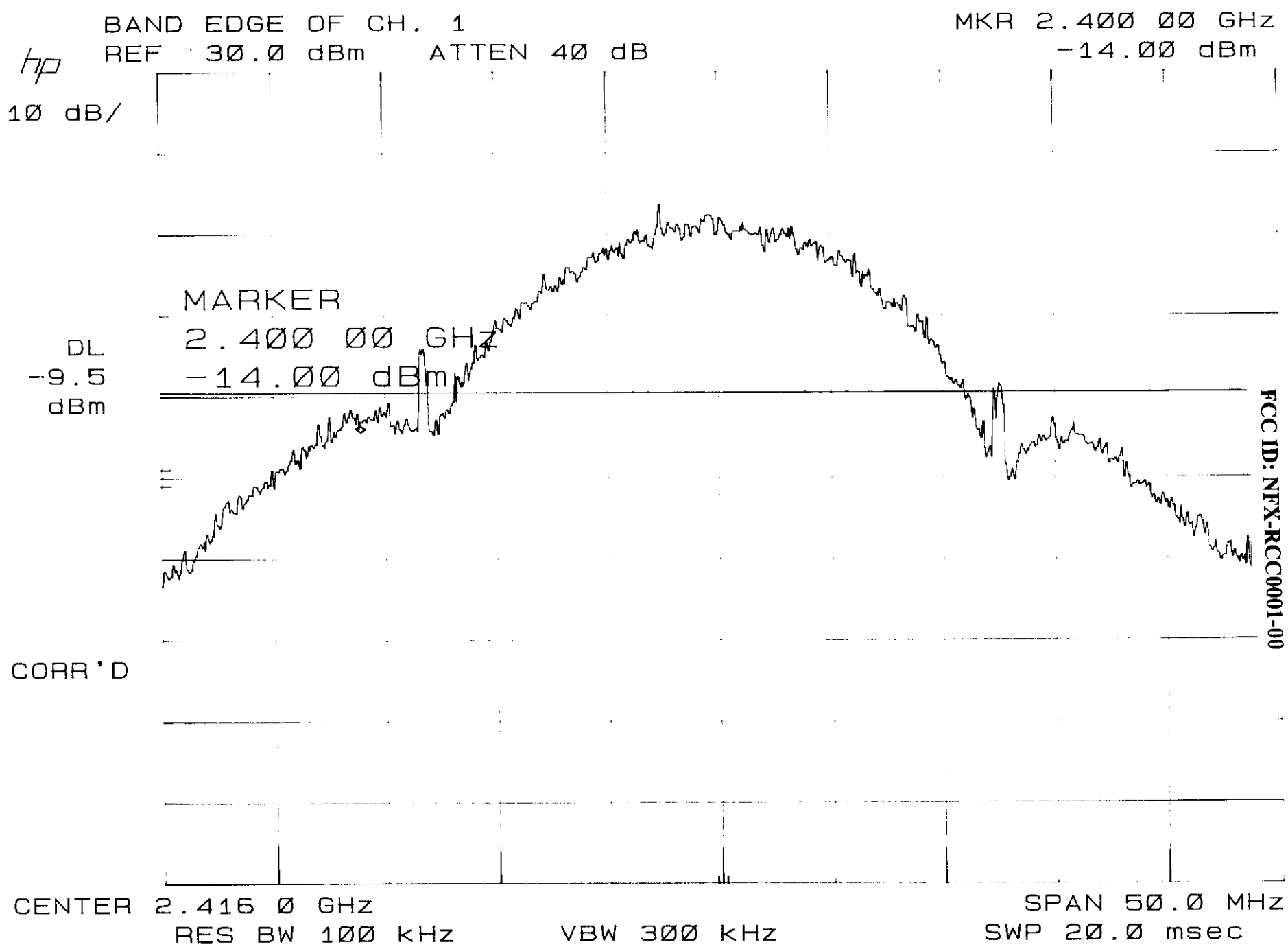


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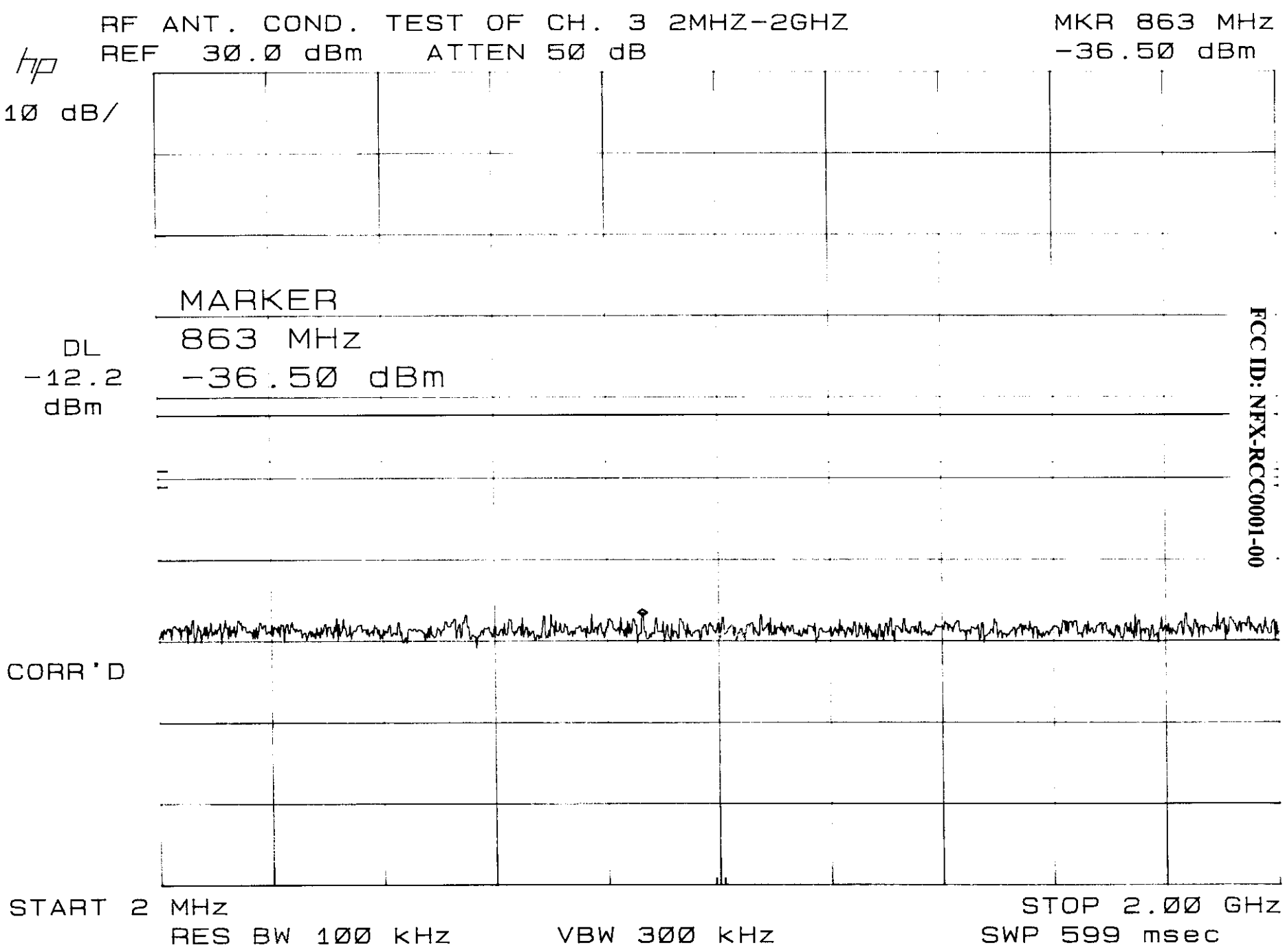


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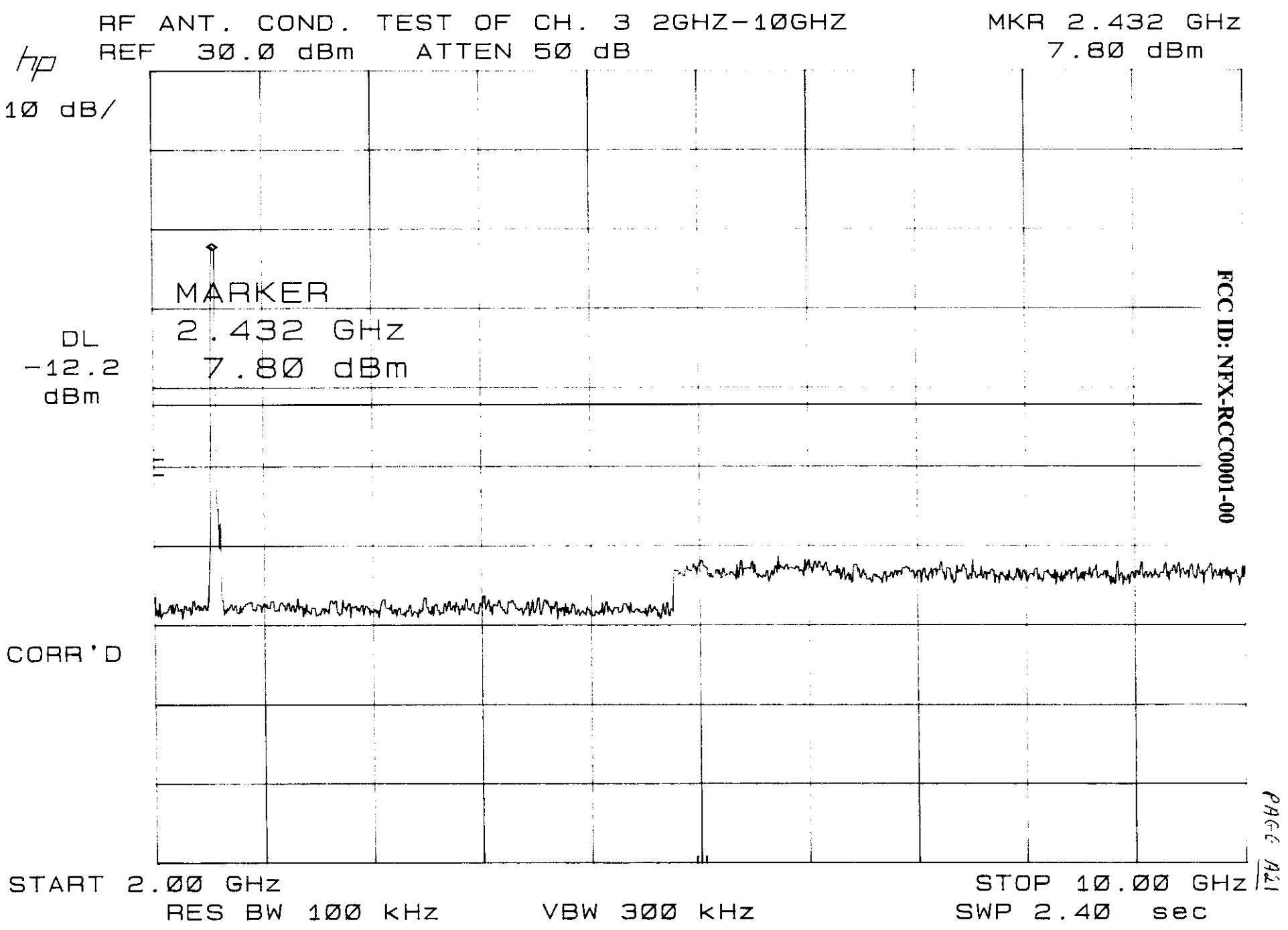


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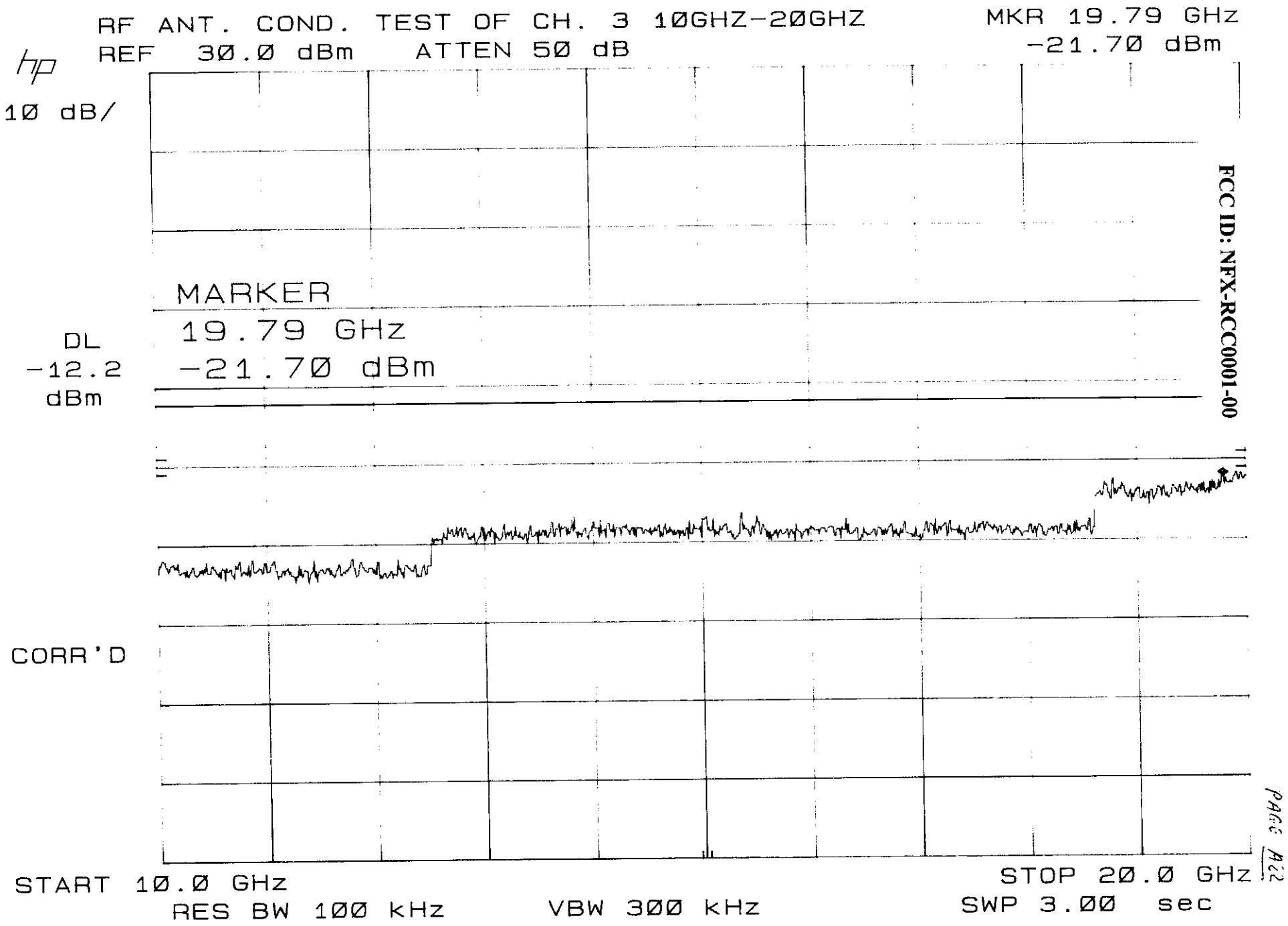


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PAGE A22

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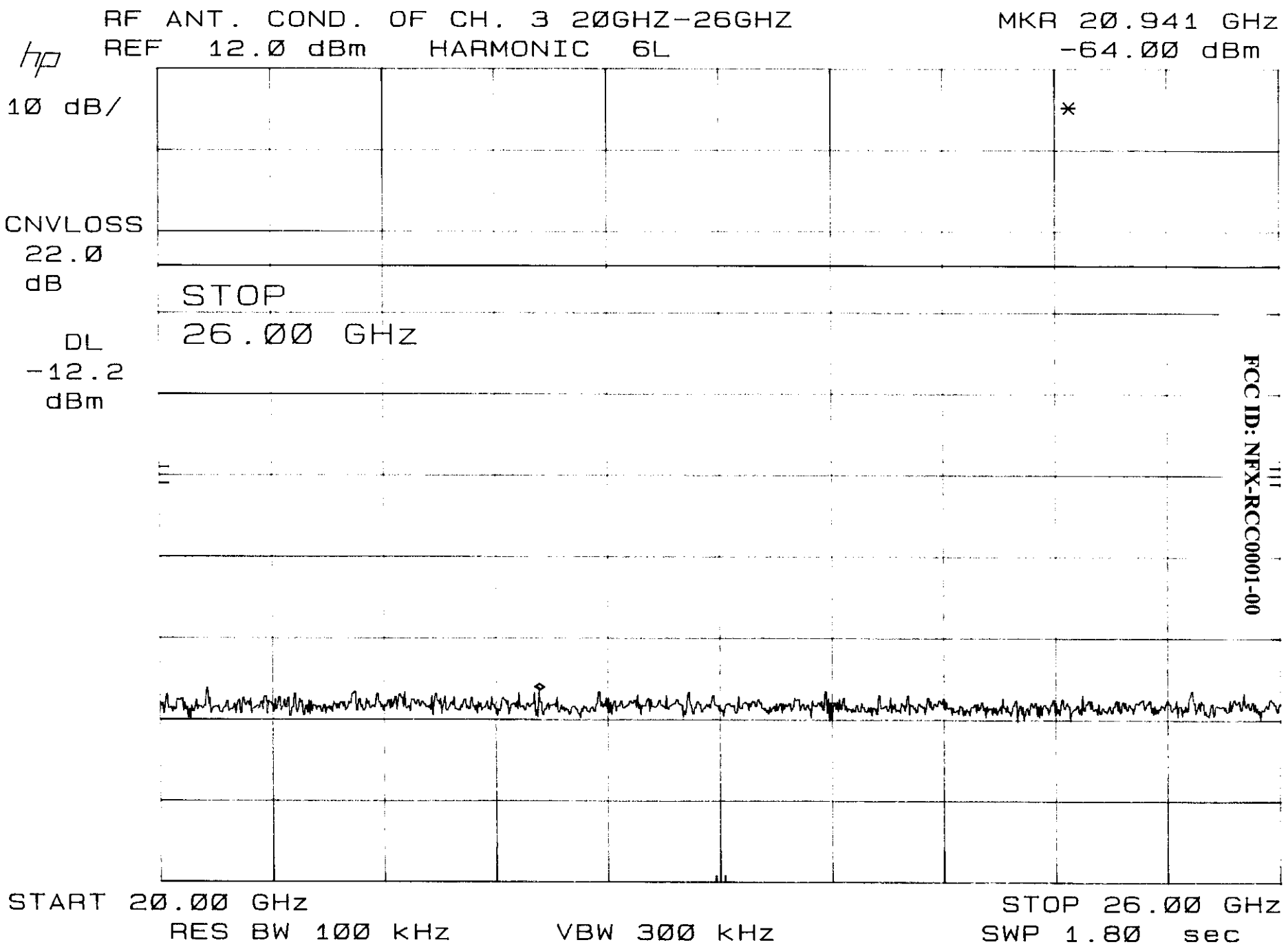


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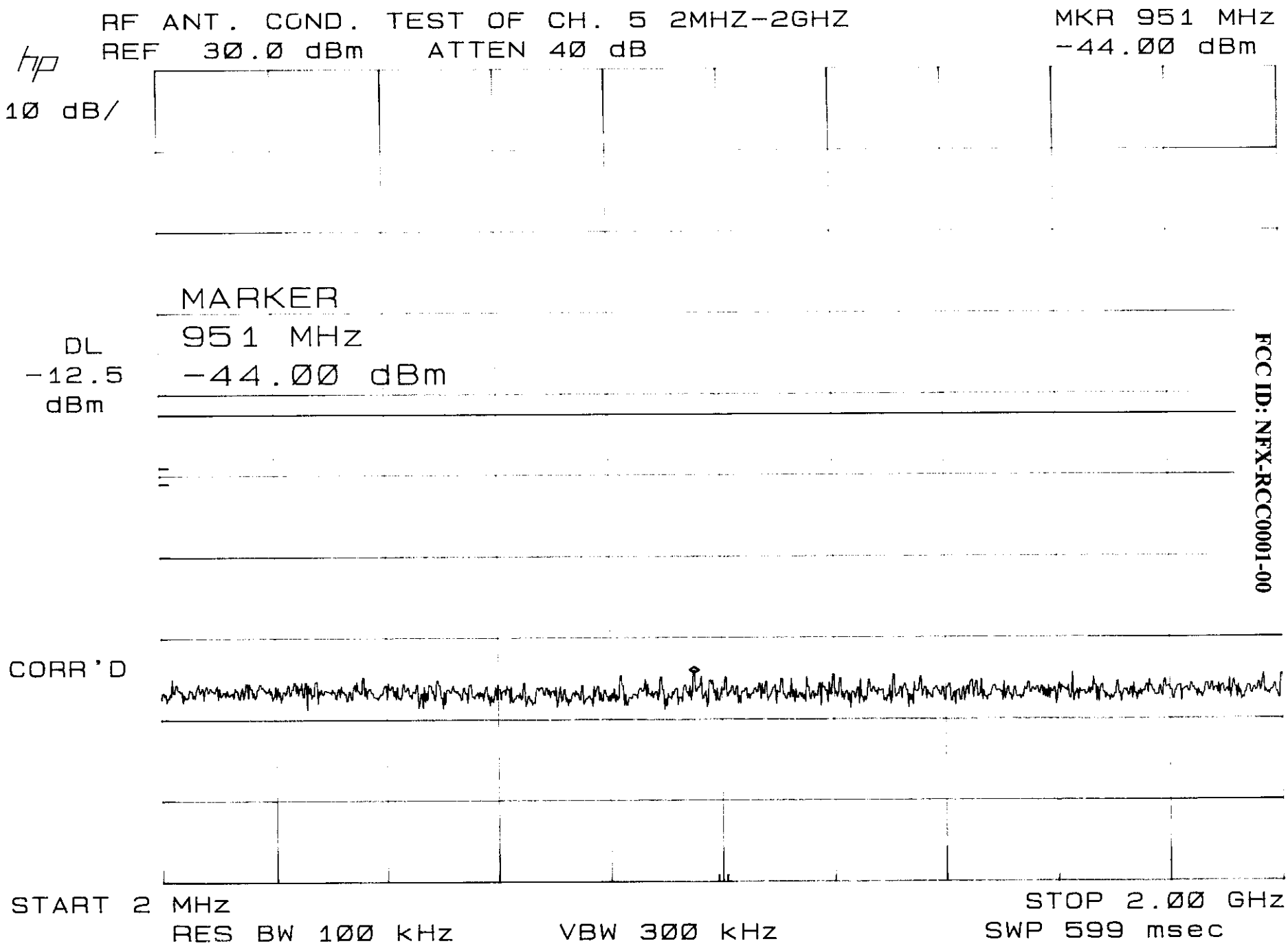
PAGE R23

4-18-98

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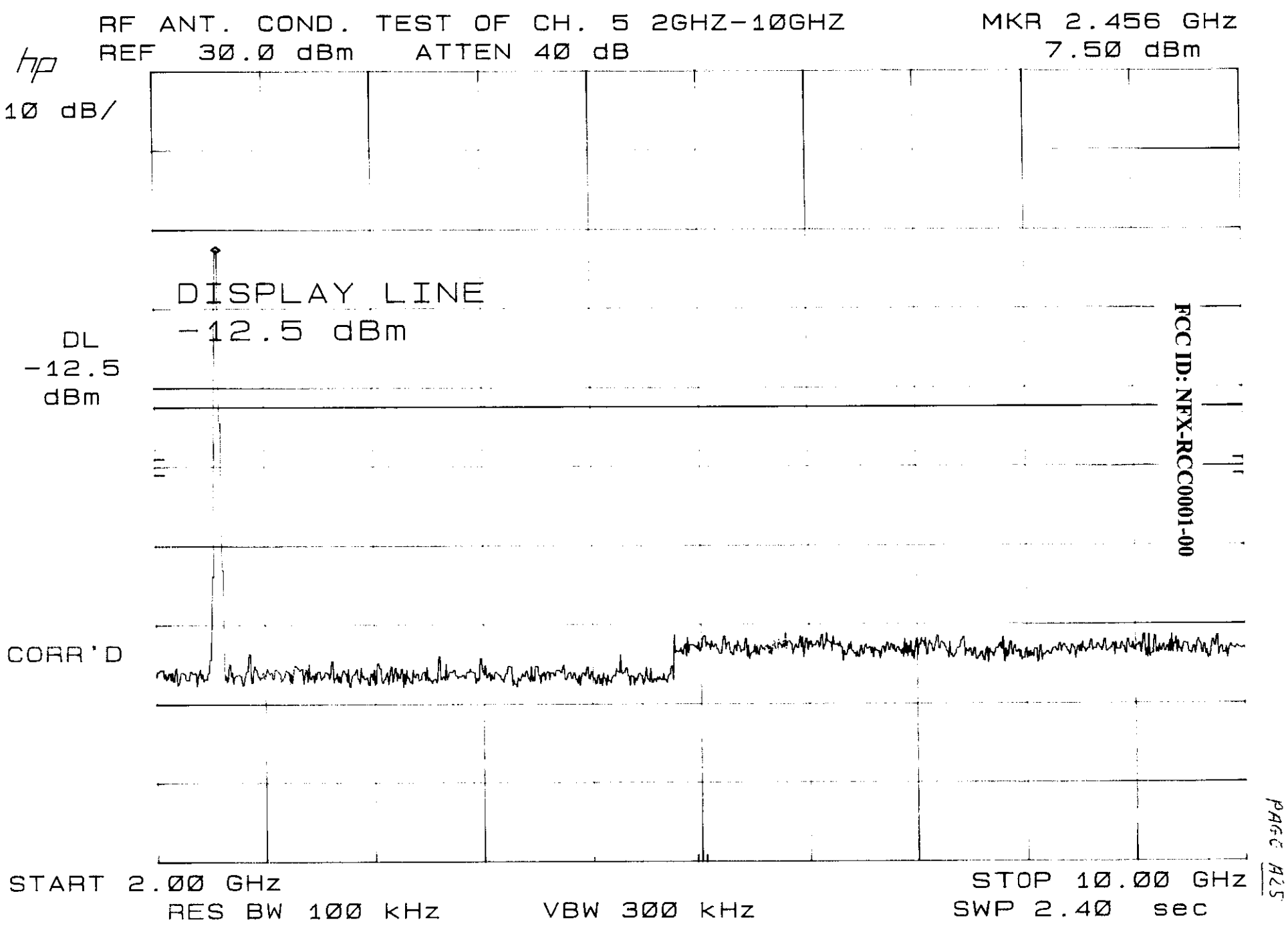


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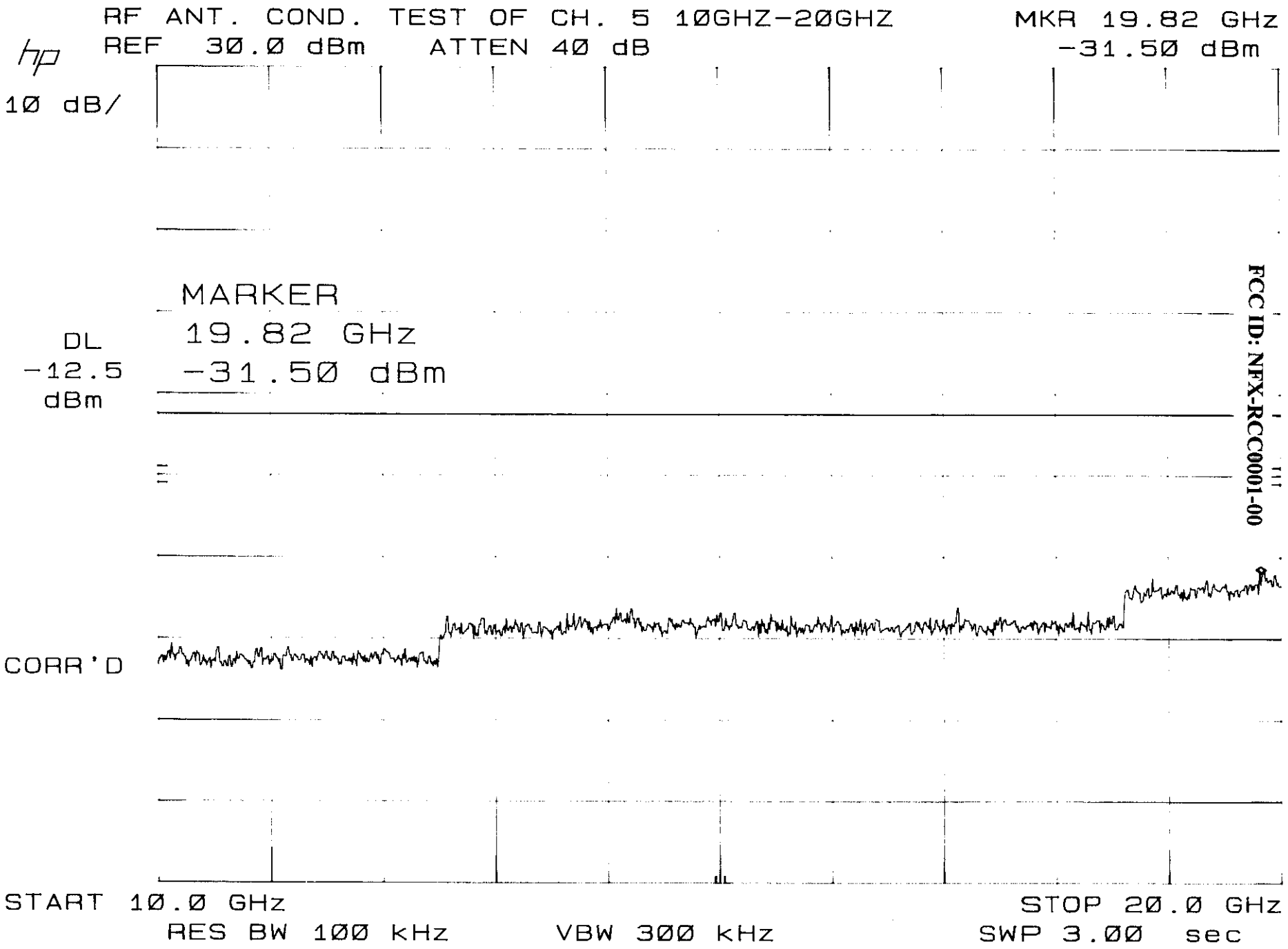


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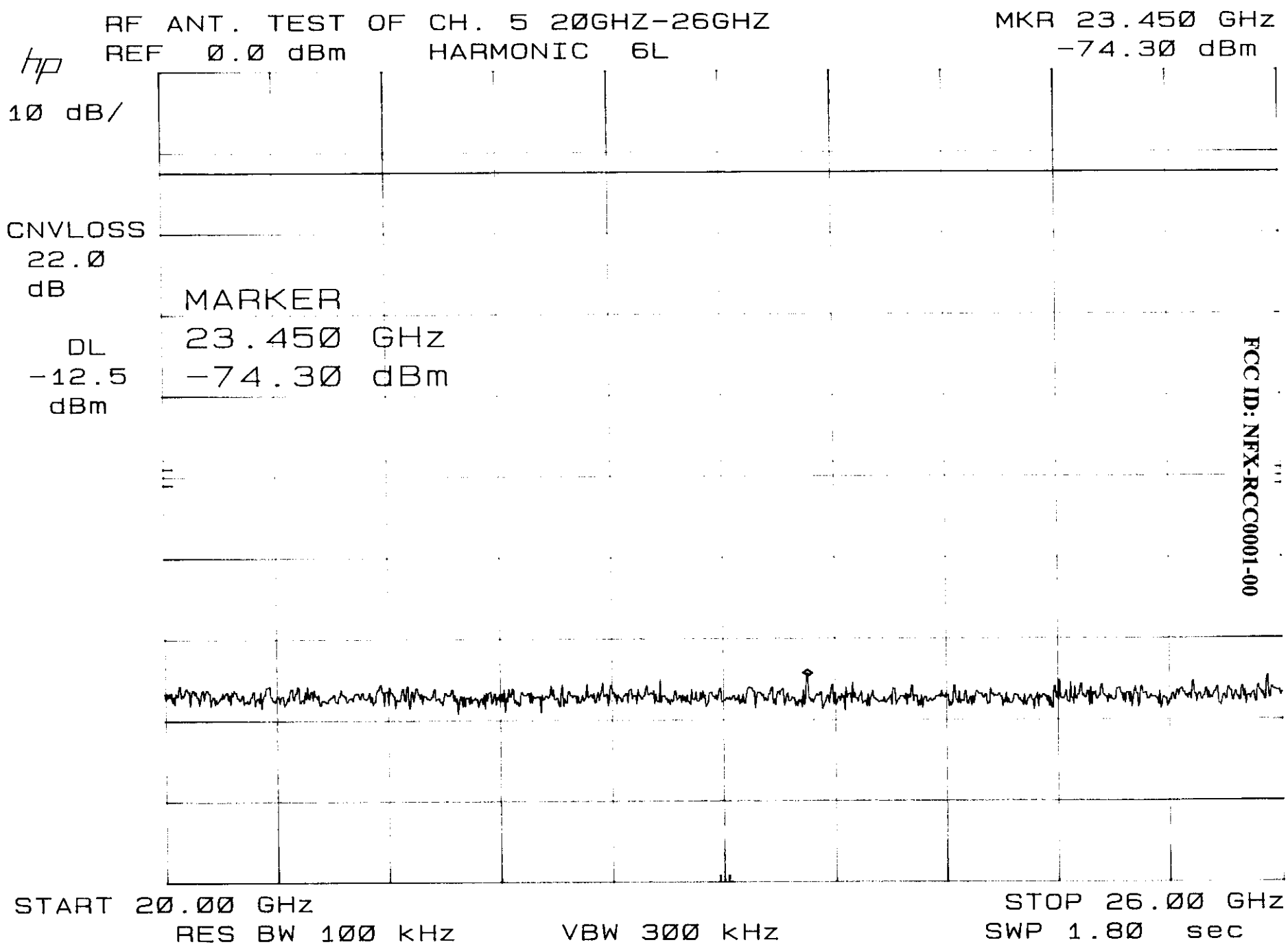


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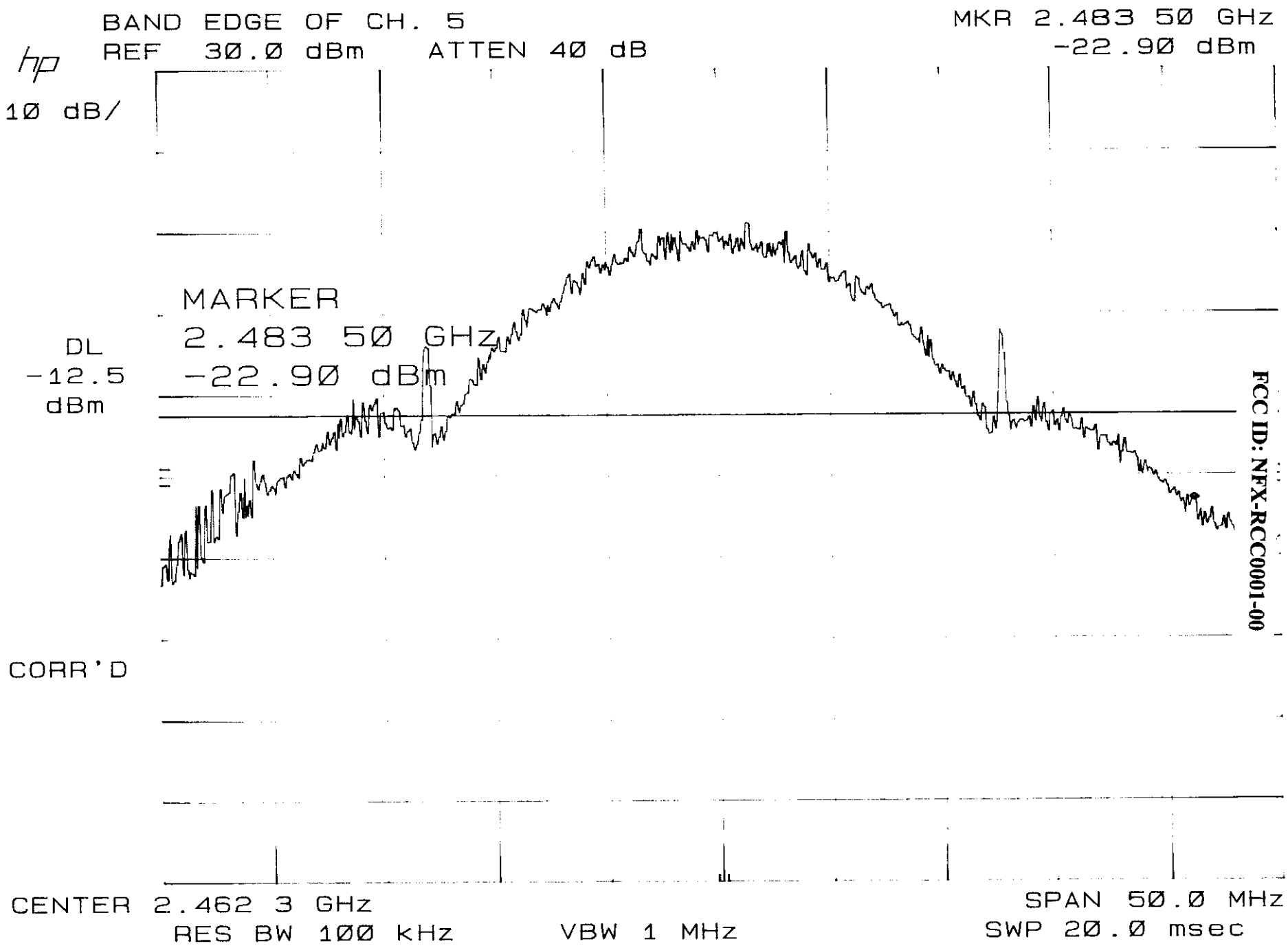


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## SECTION 15.247 (c)

# *RADIATED EMISSIONS*

# FCC ID: NFX-RCC0001-00



Test location: Compatible Electronics
Customer : RADIOCONNECT CORPORATION
Manufacturer : RADIOCONNECT CORPORATION
EUT name : 2.44 GHZ RADIOWIRE MODEM
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec)) : 0.00
Test Mode :
SPURIOUS EMISSIONS
TEMPERATURE 64 DEGREES F.
RELATIVE HUMIDITY 67%

Date : 4/28/1998
Time : 8.39
Model: RCC0001
Lab: D

| Pol | Freq MHz | Rdng dBuV | Cable loss dB | Ant factor dB | Amp gain dB | Cor'd rdg = R dBuV | limit = L dBuV/m | Delta R-L dB |
|---|---|---|---|---|---|---|---|---|
| 1V | 48.55 | 60.60 | 0.59 | 11.50 | 39.00 | 33.69 | 40.00 | -6.31 |
| 2V | 51.26 | 63.00 | 0.61 | 11.40 | 38.99 | 36.02 | 40.00 | -3.98 |
| 3V | 76.86 | 61.30 | 0.70 | 9.11 | 38.39 | 32.72 | 40.00 | -7.28 |
| 4V | 111.43 | 53.80 | 0.95 | 10.39 | 38.73 | 26.40 | 43.50 | -17.10 |
| 5V | 122.74 | 56.30 | 0.99 | 11.06 | 38.95 | 29.40 | 43.50 | -14.10 |
| 6V | 171.29 | 50.10 | 1.37 | 14.48 | 38.60 | 27.35 | 43.50 | -16.15 |
| 7V | 305.24 | 45.00 | 1.81 | 14.02 | 38.63 | 22.20 | 46.00 | -23.80 |
| 8V | 355.34 | 40.30 | 1.91 | 14.81 | 38.84 | 18.18 | 46.00 | -27.82 |
| 9V | 429.09 | 41.90 | 2.12 | 17.28 | 38.33 | 22.97 | 46.00 | -23.03 |
| 10V | 447.83 | 46.60 | 2.19 | 15.60 | 38.21 | 26.17 | 46.00 | -19.83 |
| 11V | 614.49 | 43.60 | 3.12 | 18.93 | 38.53 | 27.12 | 46.00 | -18.88 |

Test location: Compatible Electronics
Customer : RADIOCONNECT CORPORATION
Manufacturer : RADIOCONNECT CORPORATION
EUT name : 2.44 GHZ RADIOWIRE MODEM
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec)) : 0.00
Test Mode :
SPURIOUS EMISSIONS
TEMPERATURE 64 DEGREES F.
RELATIVE HUMIDITY 67%

Date : 4/28/1998
Time : 9.13
Model: RCC0001
Lab: D

| Pol | Freq MHz | Rdng dBuV | Cable loss dB | Ant factor dB | Amp gain dB | Cor'd rdg = R dBuV | limit = L dBuV/m | Delta R-L dB |
|---|---|---|---|---|---|---|---|---|
| 1H | 43.25 | 54.50 | 0.53 | 11.50 | 39.00 | 27.53 | 40.00 | -12.47 |
| 2H | 51.31 | 58.00 | 0.61 | 11.40 | 38.99 | 31.02 | 40.00 | -8.98 |
| 3H | 76.87 | 60.80 | 0.70 | 9.11 | 38.39 | 32.22 | 40.00 | -7.78 |
| 4H | 118.08 | 51.00 | 0.97 | 10.79 | 38.86 | 23.90 | 43.50 | -19.60 |
| 5H | 133.22 | 56.30 | 1.07 | 12.05 | 38.87 | 30.55 | 43.50 | -12.95 |
| 6H | 195.45 | 55.00 | 1.40 | 15.58 | 38.93 | 33.05 | 43.50 | -10.45 |
| 7H | 223.86 | 49.00 | 1.40 | 16.37 | 38.71 | 28.06 | 46.00 | -17.94 |
| 8H | 311.86 | 49.60 | 1.82 | 14.05 | 38.67 | 26.80 | 46.00 | -19.20 |
| 9H | 320.77 | 53.90 | 1.84 | 14.08 | 38.72 | 31.10 | 46.00 | -14.90 |
| 10H | 340.83 | 53.10 | 1.88 | 14.16 | 38.84 | 30.30 | 46.00 | -15.70 |
| 11H | 528.05 | 46.50 | 2.72 | 16.26 | 38.36 | 27.12 | 46.00 | -18.88 |
| 12H | 600.01 | 58.10 | 3.00 | 18.70 | 38.50 | 41.30 | 46.00 | -4.70 |
| 13H | 660.08 | 40.00 | 3.42 | 19.82 | 38.48 | 24.76 | 46.00 | -21.24 |
| 14H | 742.52 | 40.90 | 3.76 | 23.23 | 38.17 | 29.71 | 46.00 | -16.29 |
| 15H | 855.27 | 44.60 | 4.19 | 23.12 | 38.04 | 33.87 | 46.00 | -12.13 |

COMPATIBLE ELECTRONICS — FCC ID: NFX-RCC0001-00 — PAGE 1 of 2

# RADIATED EMISSIONS

**COMPANY NAME:** RADIOSONDE CORPORATION **DATE:** 4-16-98

**EUT:** 2.44 GHz RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: SPURIOUS EMISSIONS ABOVE 1GHz

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.049 | 48.1 | – | 1.0 | 0 | 23.3 | 5.6 | 33.0 | 41.0 | -13.0 | 54.0 |
| 1.115 | 40.2 | – | 1.0 | 0 | 22.3 | 3.7 | 33.0 | 33.2 | -20.8 | 54.0 |
| 1.257 | 41.8 | – | 1.0 | 0 | 23.3 | 4.2 | 32.9 | 35.4 | -18.6 | 54.0 |
| 1.592 | 55.4 | 48.4 | 1.0 | 0 | 24.5 | 4.8 | 33.0 | 44.7 | -9.3 | 54.0 |
| 1.689 | 53.8 | – | 1.0 | 0 | 24.3 | 4.8 | 33.0 | 50.1 | -3.9 | 54.0 |
| MODULATION PRODUCT OF TX → 1.882 | 64.2 | 57.2 | 1.0 | 0 | 24.5 | 5.7 | 32.9 | 54.5 | | |
| 2.111 | 57.4 | 50.4 | 1.0 | 0 | 26.7 | 4.8 | 33.1 | 48.8 | | |
| 3.148 | 60.2 | 53.2 | 1.0 | 0 | 29.7 | 6.4 | 32.4 | 56.9 | | |
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*** CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

**** DELTA** = CORRECTED READING - SPECIFICATION LIMIT

PART A33

COMPATIBLE ELECTRONICS

FCC ID: NFX-RCC0001-00

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO COMPACT CORPORATION **DATE:** 4-16-98

**EUT:** 2.44 GHZ RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F

NOTES: SPURIOUS EMISSIONS ABOVE 1GHZ.

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.049 | 47.4 | – | 1.0 | 90 | 22.3 | 3.6 | 33.0 | 40.3 | -13.7 | 54.0 |
| 1.115 | 37.5 | – | 1.0 | 0 | 22.3 | 3.7 | 33.0 | 30.5 | -23.5 | 54.0 |
| 1.257 | 36.2 | – | 1.0 | 0 | 22.3 | 4.2 | 32.9 | 29.8 | -24.2 | 54.0 |
| 1.400 | 45.2 | – | 1.0 | 0 | 22.3 | 4.4 | 32.8 | 39.1 | -14.9 | 54.0 |
| 1.592 | 55.7 | 48.7 | 1.0 | 0 | 24.5 | 4.8 | 33.0 | 45.0 | -9.0 | 54.0 |
| 1.689 | 53.9 | – | 1.5 | 0 | 24.5 | 4.8 | 33.0 | 50.2 | -3.8 | 54.0 |
| 1.882 | 80.9 | 73.9 | 1.0 | 0 | 24.5 | 5.7 | 32.9 | 71.2 | | |
| 2.111 | 61.1 | 54.1 | 1.0 | 0 | 26.7 | 4.8 | 33.1 | 52.5 | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS — FCC ID: NFX-RCC0001-00 PAGE 1 of 18

# RADIATED EMISSIONS

COMPANY NAME: RADIO CONNECT CORPORATION DATE: 4-16-98

EUT: 2.4GHz RADIOWIRE MODEM EUT S/N: PROTOTYPE

EUT MODEL: RCC0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: _____ TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: KYLE F.

NOTES: 14dBi - CIRCULAR POLARIZED HELICAL TCOM MIDDLE CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.443 | 124.5 | 117.5 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.5 | — | — |
| | | | NO | HARMONICS | | FOUND | | | | |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS FCC ID: NFX-RCC0001-00 PAGE 2 of 18

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-16-98

**EUT:** 2.446HZ RADIO WIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3 M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: 14dBi - CIRCULAR POLARIZED HELICAL MIDDLE CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.442 | 124.6 | 117.6 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 118.6 | — | — |
| | | | NO | HARMONICS | | FOUND | | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-16-98

**EUT:** 2.44GHZ RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: 14dBi - CIRCULAR POLARIZED HORN LOW CHANNEL T COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.4135 | 125.7 | 118.7 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 119.7 | — | — |
| | | | NO | HARMONICS | | FOUND | | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS — FCC ID: NFX-RCC0001-00 PAGE 5 of 18

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-16-98

**EUT:** 2.44GHZ RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

NOTES: 14dBi - CIRCULAR POLARIZED HELICAL T COM

COM CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.4135 | 124.9 | 117.9 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 118.9 | - | - |
| | | | NO | HARMONICS | FOUND | | | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS — FCC ID: NFX-RCC0001-00

# *RADIATED EMISSIONS*

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-16-98

**EUT:** 2.44 GHZ RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3 M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: 14dB. - CIRCULAR POLARIZED HELICAL T COM HIGH CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.4619 | 124.3 | 117.3 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 118.3 | - | - |
| | | | NO | HARMONICS | | FOUND | | | | |
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*** CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

**** DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS

FCC ID: NFX-RCC0001-00 PAGE 6 of 18

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-16-98

**EUT:** 2.44GHz RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: 915L - CIRCULAR POLARIZED HELICAL HIGH T COM CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.4619 | 124.3 | 117.3 | 2.0 | 0 | 28.1 | 5.5 | 32.7 | 118.3 | — | — |
| | | | NO HARMONICS FOUND | | | | | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS

FCC ID: NFX-RCC0001-00 PAGE 7 of 18

# RADIATED EMISSIONS

COMPANY NAME: RADIO CONNECT CORPORATION DATE: 4-18-98

EUT: 2.44 GHZ RADIOWIRE MODEM EUT S/N: PROTOTYPE

EUT MODEL: RCC 0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: _____ TEST DISTANCE: 3 M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: KYLE F.

NOTES: 20dB1 - HELICAL BACKFIRE CIRCULAR POLARIZED LOW
0.6M PARABOLIC REFLECTOR T-COM CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.416 | 125.1 | 118.1 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 119.1 | – | – |
| 4.833 | 33.9 | 26.9 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 37.9 | -16.1 | 54.0 |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-18-98

**EUT:** 2.44 GHz RADIO MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3 M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: 20dB - HELICAL BACKFIRE CIRCULAR POLARIZED LOW 0.6M PARASOLIC REFLECTOR T-COM CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.415 | 125.1 | 118.1 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 119.1 | — | — |
| 4.833 | 34.0 | 27.0 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 38.0 | -16.0 | 54.0 |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS

FCC ID: NFX-RCC0001-00

# RADIATED EMISSIONS

**COMPANY NAME:** RadioConnect Corporation **DATE:** 4-18-98

**EUT:** 2.44 GHz Radio Wire Modem **EUT S/N:** Prototype

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

NOTES: 20 dBi - Helical Backfire Circularly Polarized Middle Channel
0.6m Parabolic Reflector T-COM

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.441 | 124.7 | 117.7 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.7 | – | – |
| 4.887 | 37.3 | 30.3 | 2.0 | 0 | 32.3 | 10.3 | 31.6 | 41.3 | -12.7 | 54.0 |
| | | | No | Harmonics | Beyond | This | Point | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

COMPANY NAME: RADIO CONNECT CORPORATION DATE: 4-18-98

EUT: 2.44 GHZ RADIO WIRE MODEM EUT S/N: PROTOTYPE

EUT MODEL: RCC 0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: ____ TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: KYLE F.

NOTES: 20dBi - HELICAL BACKFIRE CIRCULAR POLARIZED 0.6M PARABOLIC REFLECTOR T-COM MIDDLE CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.442 | 124.7 | 117.7 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.7 | — | — |
| 4.887 | 36.6 | 29.6 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 40.6 | -13.4 | 54.0 |
| | | | NO | HARMONICS | | FOUND | BEYOND | | | |
| | | | | THIS | POINT | | | | | |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-18-98

**EUT:** 2.44 GHz RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC 0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: 20dBi - HELICAL BACKFIRE CIRCULAR POLARIZED HIGH 0.6m PARABOLIC REFLECTOR T COM CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.462 | 124.2 | 117.2 | 1.5 | 0 | 28.2 | 5.5 | 32.7 | 118.2 | — | — |
| 4.925 | 37.8 | 30.8 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 41.8 | -12.2 | 54.0 |
| | | | | NO HARMONICS FOUND BEYOND THIS POINT | | | | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS — FCC ID: NFX-RCC0001-00

# RADIATED EMISSIONS

COMPANY NAME: RadioConnect Corporation DATE: 4-18-98

EUT: 2.44 GHz RadioWire Modem EUT S/N: Prototype

EUT MODEL: RCC 0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: ____ TEST DISTANCE: 3 M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: Kyle F.

NOTES: 20 dBi - Helical Backfire Circularly Polarized High
0.6 m Parabolic Reflector T-COM Channel

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.462 | 124.2 | 117.2 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.2 | – | – |
| 4.925 | 36.8 | 29.8 | 1.0 | 0 | 32.3 | 10.3 | 31.6 | 40.8 | -13.2 | 54.0 |
| | | | No Harmonics Found Beyond This Point | | | | | | | |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

COMPANY NAME: RADIO CONNECT CORPORATION DATE: 4-18-98

EUT: 2.44 GHZ RADIOWIRE MODEM EUT S/N: PROTOTYPE

EUT MODEL: RCC 0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: ____ TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: KYLE F.

NOTES: 24dBi 1 METER DISH ANT CIRCULAR POLARIZATION T-COM COM CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.4158 | 125.5 | 118.5 | 2.5 | 0 | 28.2 | 5.5 | 32.7 | 119.5 | — | — |
| 4.833 | 42.5 | 35.5 | 3.0 | 0 | 32.3 | 10.3 | 31.6 | 46.5 | -7.5 | 54.0 |
| | | | NO OTHER HARMONICS FOUND | | | | | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS FCC ID: NFX-RCC0001-00

# RADIATED EMISSIONS

COMPANY NAME: RadioConnect Corporation DATE: 4-18-98

EUT: 2.44 GHz Radiolink Modem EUT S/N: Prototype

EUT MODEL: RCC0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: ____ TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: Kyle F.

NOTES: 24dBi 1 METER DISH ANT CIRCULAR POLARIZATION T-COM LOW CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.4158 | 125.5 | 118.5 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 119.5 | - | - |
| 4.831 | 38.0 | 31.0 | 2.0 | 0 | 32.3 | 10.3 | 31.6 | 42.0 | -12.0 | 54.0 |
| | | | NO | HARMONICS | FOUND | BEYOND | THIS | POINT | | |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS

FCC ID: NFX-RCC0001-00

# RADIATED EMISSIONS

COMPANY NAME: RADIO CONNECT CORPORATION DATE: 4-18-98

EUT: 2.44 GHZ RADIO FREQ MODEM EUT S/N: PROTOTYPE

EUT MODEL: RCC 0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: _____ TEST DISTANCE: 3 M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: KYLE F.

NOTES: 24dB 1 METER DISH ANT CIRCULAR POLARIZATION T-COM MIDDLE CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.441 | 125.1 | 118.1 | 1.10 | 0 | 28.2 | 5.5 | 32.7 | 119.1 | - | - |
| 4.882 | 36.9 | 29.9 | 1.5 | 0 | 32.3 | 10.3 | 31.6 | 40.9 | -13.1 | 54.0 |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

**COMPANY NAME:** RadioConnect Corporation **DATE:** 4-18-98

**EUT:** 2.44 GHz Radiowire Modem **EUT S/N:** Prototype

**EUT MODEL:** RCC0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** Kyle F.

NOTES: 24dBi 1 METER DISH ANT CIRCULAR POLARIZATION T-COM MIDDLE CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.441 | 125.0 | 119.0 | 2.0 | 0 | 28.2 | 5.5 | 32.7 | 120.0 | — | — |
| 4.883 | 38.9 | 31.9 | 2.0 | 0 | 32.3 | 10.3 | 31.6 | 42.9 | -11.1 | 54.0 |
| 7.324 | 35.9 | 29.9 | 1.0 | 0 | 36.8 | 11.4 | 32.0 | 46.1 | -7.9 | 54.0 |
| | | | NO | OTHER | HARMONICS | | FOUND | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

# RADIATED EMISSIONS

COMPANY NAME: RADIO CONNECT CORPORATION DATE: 4-18-98

EUT: 2.44 GHZ RADIONIC MODEM EUT S/N: PROTOTYPE

EUT MODEL: RCC0001 LOCATION: ■ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: ____ TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN POLARIZATION: ■ VERT ☐ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: KYLE F.

NOTES: 24 dBi 1 METER DISH ANTENNA CIRCULAR POLARIZATION T-COM HIGH CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.462 | 124.2 | 117.2 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.2 | — | — |
| 4.922 | 36.2 | 29.2 | 1.5 | 0 | 32.3 | 10.3 | 31.6 | 40.2 | -13.8 | 54.0 |
| 7.386 | 35.5 | 28.5 | 1.5 | 0 | 36.8 | 11.4 | 32.0 | 44.7 | -9.3 | 54.0 |
| | | | NO | HARMONICS | FOUND | BEYOND | THIS | POINT | | |
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* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

COMPATIBLE ELECTRONICS

FCC ID: NFX-RCC0001-00



# RADIATED EMISSIONS

**COMPANY NAME:** RADIO CONNECT CORPORATION **DATE:** 4-18-98

**EUT:** 2.44 GHz RADIOWIRE MODEM **EUT S/N:** PROTOTYPE

**EUT MODEL:** RCC0001 **LOCATION:** ■ BREA ☐ SILVERADO ☐ AGOURA

**SPECIFICATION:** FCC 15.247 **CLASS:** _____ **TEST DISTANCE:** 3M **LAB:** D

**ANTENNA:** ☐ LOOP ☐ BICONICAL ☐ LOG ■ HORN **POLARIZATION:** ☐ VERT ■ HORIZ

■ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** KYLE F.

NOTES: 1 METER DISH ANTENNA CIRCULAR POLARIZATION T-COM HIGH CHANNEL

| Frequency (GHz) | Peak Reading (dBuV) | Average Reading (dBuV) | Antenna Height (meters) | Azimuth (degrees) | Antenna Factor (dB) | Cable Loss (dB) | Amplifier Gain (dB) | * Corrected Reading (dBuV) | Delta ** (dB) | Spec Limit (dBuV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.462 | 124.2 | 117.2 | 1.0 | 0 | 28.2 | 5.5 | 32.7 | 118.2 | – | – |
| 4.924 | 36.1 | 29.1 | 2.0 | 0 | 32.3 | 10.3 | 31.6 | 40.1 | -13.9 | 54.0 |
| 7.386 | 37.8 | 30.8 | 2.0 | 0 | 36.8 | 11.4 | 32.0 | 47.0 | -7.0 | 54.0 |
| | | | NO | HARMONICS | | FOUND | AFTER | | | |
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* **CORRECTED READING** = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** **DELTA** = CORRECTED READING - SPECIFICATION LIMIT

**SECTION 15.207**

# *CONDUCTED EMISSIONS ON AC POWER LINE*

**FCC ID: NFX-RCC0001-00**

MEASUREMENT NOTES:

RADIOCONNECT CORPORATION
2.4 GHZ RADIOWIRE MODEM
MODEM: RC0001
FCC C - BLACK LEAD - 27 APR 1998 15:41:24

12 highest Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB

| PEAK# | FREQ (MHz) | (dBuV) | DELTA |
|---|---|---|---|
| 1 | 25.58 | 46.6 | -1.4 |
| 2 | .4693 | 42.7 | -5.3 |
| 3 | .4654 | 42.6 | -5.4 |
| 4 | .6401 | 42.4 | -5.6 |
| 5 | 13.29 | 41.5 | -6.5 |
| 6 | 7.577 | 41.3 | -6.7 |
| 7 | .4557 | 41.2 | -6.8 |
| 8 | 11.05 | 41.2 | -6.8 |
| 9 | 9.624 | 41.1 | -6.9 |
| 10 | 10.42 | 41.1 | -6.9 |
| 11 | 6.765 | 41 | -7.0 |
| 12 | 7.451 | 41 | -7.0 |

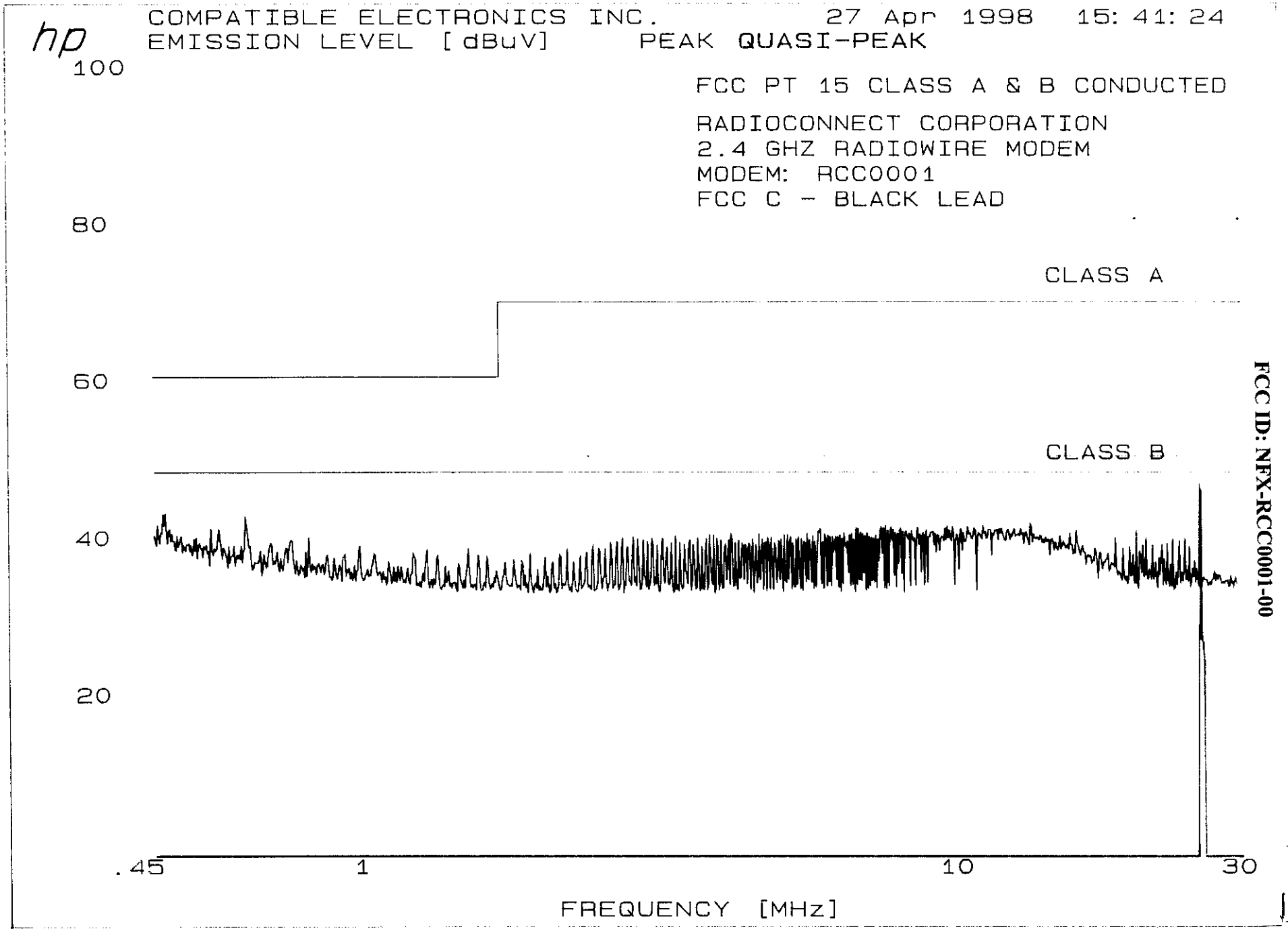
3 SEC QP READING BELOW AND ON PLOT

12 highest Quasi-Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB

| PEAK# | FREQ (MHz) | (dBuV) | DELTA |
|---|---|---|---|
| 1 | 25.69 | 45.8 | -2.2 |
| 2 | 25.47 | 28.6 | -19.4 |

MEASUREMENT NOTES:

TEST ENGINEER: Kyle Fujimoto
KYLE FUJIMOTO


hp
COMPATIBLE ELECTRONICS INC.
27 Apr 1998 15:41:24
EMISSION LEVEL [dBuV]
PEAK QUASI-PEAK
FCC PT 15 CLASS A & B CONDUCTED
RADIOCONNECT CORPORATION
2.4 GHZ RADIOWIRE MODEM
MODEM: RCC0001
FCC C - BLACK LEAD
100
80
60
40
20
CLASS A
CLASS B
.45
1
10
30
FREQUENCY [MHz]
FCC ID: NFX-RCC0001-00

PASS

MEASUREMENT NOTES:

RADIOCONNECT CORPORATION
2.4 GHZ RADIOWIRE MODEM
MODEL: RCC0001
FCC C - WHITE LEAD - 27 APR 1998 15:53:41

**FCC ID: NFX-RCC0001-00**

12 highest Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB

| PEAK# | FREQ (MHz) | (dBuV) | DELTA |
|---|---|---|---|
| 1 | 25.58 | 46.4 | -1.6 |
| 2 | .6455 | 43.1 | -4.9 |
| 3 | 3.371 | 43.1 | -4.9 |
| 4 | 4.193 | 43.1 | -4.9 |
| 5 | 4.776 | 42.8 | -5.2 |
| 6 | 9.745 | 42.8 | -5.2 |
| 7 | .6401 | 42.7 | -5.3 |
| 8 | 7.144 | 42.5 | -5.5 |
| 9 | 3.087 | 42.4 | -5.6 |
| 10 | 3.206 | 42.4 | -5.6 |
| 11 | 4.246 | 42.4 | -5.6 |
| 12 | 4.428 | 42.4 | -5.6 |

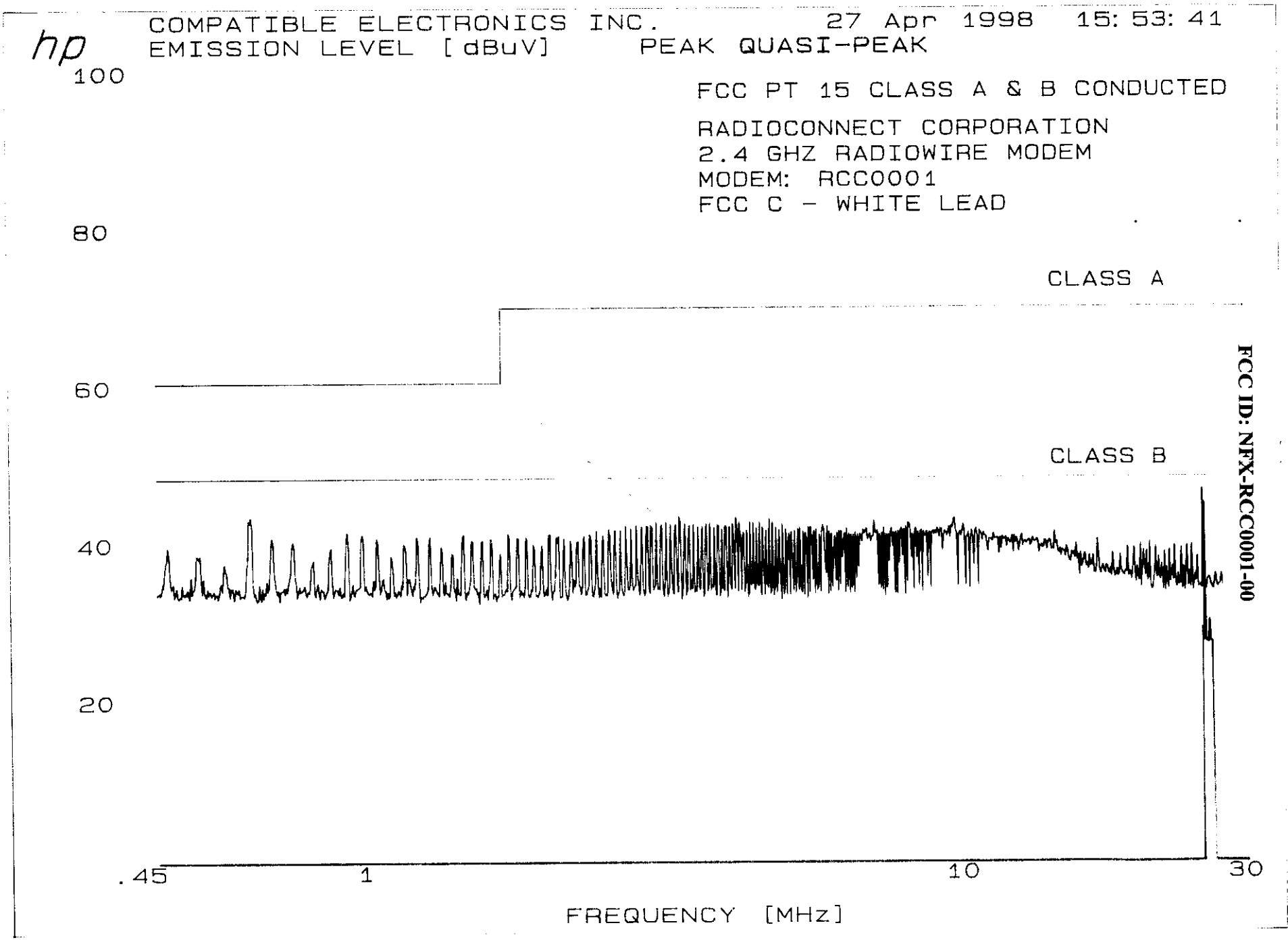
3 SEE QP READING BELOW AND ON PLOT

12 highest Quasi-Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB

| PEAK# | FREQ (MHz) | (dBuV) | DELTA |
|---|---|---|---|
| 1 | 25.69 | 44.7 | -3.3 |
| 2 | 26.12 | 29.8 | -18.2 |
| 3 | 25.47 | 28.9 | -19.1 |

MEASUREMENT NOTES:

TEST ENGINEER: Kyle Fujimoto
KYLE FUJIMOTO


COMPATIBLE ELECTRONICS INC.
27 Apr 1998 15:53:41
hp
EMISSION LEVEL [dBuV]
PEAK QUASI-PEAK
FCC PT 15 CLASS A & B CONDUCTED
RADIOCONNECT CORPORATION
2.4 GHZ RADIOWIRE MODEM
MODEM: RCC0001
FCC C - WHITE LEAD
100
80
60
40
20
CLASS A
CLASS B
.45
1
10
30
FREQUENCY [MHz]
FCC ID: NFX-RCC0001-00

## SECTION 15.247 (e)

# *PROCESSING GAIN*

PROCESSING GAIN WORKSHEET FCC ID: NFX-RCC0001-00

# PROCESSING GAIN TEST

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2441.20 | -7.40 | -49.40 | -49.40 | -2.00 | 13.00 |
| 2441.63 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2442.05 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2442.48 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2442.91 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2443.33 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2443.76 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2444.19 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2444.61 | -7.40 | -49.40 | -47.40 | 1.00 | 16.00 |
| 2445.04 | -7.40 | -49.40 | -47.40 | 1.00 | 16.00 |
| 2445.47 | -7.40 | -49.40 | -46.40 | 2.00 | 17.00 |
| 2445.89 | -7.40 | -49.40 | -46.40 | 2.00 | 17.00 |
| 2446.32 | -7.40 | -49.40 | -45.40 | 2.00 | 17.00 |
| 2446.75 | -7.40 | -49.40 | -45.40 | 2.00 | 17.00 |
| 2447.17 | -7.40 | -49.40 | -44.40 | 3.00 | 18.00 |
| 2447.60 | -7.40 | -49.40 | -44.40 | 3.00 | 18.00 |

**LOSSES**

| | |
|---|---|
| Attenuation | **40** |
| Combiner Loss | **1** |
| Cable Loss | **1** |
| System Loss | **2** |
| S/N ratio | **13** |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2448.03 | -7.40 | -49.40 | -42.40 | 5.00 | 20.00 |
| 2448.45 | -7.40 | -49.40 | -42.40 | 5.00 | 20.00 |
| 2448.88 | -7.40 | -49.40 | -40.40 | 7.00 | 22.00 |
| 2449.31 | -7.40 | -49.40 | -39.40 | 8.00 | 23.00 |
| 2449.73 | -7.40 | -49.40 | -38.40 | 9.00 | 24.00 |
| 2450.16 | -7.40 | -49.40 | -38.40 | 9.00 | 24.00 |
| 2450.59 | -7.40 | -49.40 | -36.40 | 11.00 | 26.00 |
| 2451.01 | -7.40 | -49.40 | -34.40 | 13.00 | 28.00 |
| 2451.44 | -7.40 | -49.40 | -33.40 | 14.00 | 29.00 |
| 2451.87 | -7.40 | -49.40 | -31.40 | 16.00 | 31.00 |
| 2452.29 | -7.40 | -49.40 | -29.40 | 18.00 | 33.00 |
| 2452.72 | -7.40 | -49.40 | -26.40 | 21.00 | 36.00 |
| 2453.15 | -7.40 | -49.40 | -22.40 | 25.00 | 40.00 |
| 2453.57 | -7.40 | -49.40 | -19.40 | 28.00 | 43.00 |

PROCESSING GAIN WORKSHEET FCC ID: NFX-RCC0001-00

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2440.77 | -7.40 | -49.40 | -49.40 | -2.00 | 13.00 |
| 2440.35 | -7.40 | -49.40 | -48.40 | -1.00 | 14.00 |
| 2439.92 | -7.40 | -49.40 | -49.40 | -2.00 | 13.00 |
| 2439.49 | -7.40 | -49.40 | -49.40 | -2.00 | 13.00 |
| 2439.07 | -7.40 | -49.40 | -48.40 | -1.00 | 14.00 |
| 2438.64 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2438.21 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2437.79 | -7.40 | -49.40 | -47.40 | 0.00 | 15.00 |
| 2437.36 | -7.40 | -49.40 | -46.40 | 2.00 | 17.00 |
| 2436.93 | -7.40 | -49.40 | -47.40 | 1.00 | 16.00 |
| 2436.51 | -7.40 | -49.40 | -46.40 | 2.00 | 17.00 |
| 2436.08 | -7.40 | -49.40 | -46.40 | 2.00 | 17.00 |
| 2435.65 | -7.40 | -49.40 | -45.40 | 2.00 | 17.00 |
| 2435.23 | -7.40 | -49.40 | -46.40 | 1.00 | 16.00 |
| 2434.80 | -7.40 | -49.40 | -44.40 | 3.00 | 18.00 |
| 2434.37 | -7.40 | -49.40 | -43.40 | 4.00 | 19.00 |

**LOSSES**

| | |
|---|---|
| Attenuation | 40 |
| Combiner Loss | 1 |
| Cable Loss | 1 |
| System Loss | 2 |
| S/N ratio | 13 |

Signal Level = TX Ouput - Attenuation - Combiner Loss - Cable Loss

Mj J/S radio = CW Noise - Sig. Level - Combiner Loss - Cable Loss

Processing Gain = Mj J/S ratio + System Loss + S/N ratio.

**CHANNEL 3 (2441.20 MHz)**

| Jammer Freq. (MHz) | Transmitter Output (dBm) | Signal Level (dBm) | CW Noise (dBm) | Mj J/S ratio (dB) | Processing Gain (dBm) |
|---|---|---|---|---|---|
| 2433.95 | -7.40 | -49.40 | -42.40 | 5.00 | 20.00 |
| 2433.52 | -7.40 | -49.40 | -41.40 | 6.00 | 21.00 |
| 2433.09 | -7.40 | -49.40 | -40.40 | 7.00 | 22.00 |
| 2432.67 | -7.40 | -49.40 | -39.40 | 8.00 | 23.00 |
| 2432.24 | -7.40 | -49.40 | -37.40 | 10.00 | 25.00 |
| 2431.81 | -7.40 | -49.40 | -36.40 | 11.00 | 26.00 |
| 2431.39 | -7.40 | -49.40 | -35.40 | 12.00 | 27.00 |
| 2430.96 | -7.40 | -49.40 | -34.40 | 13.00 | 28.00 |
| 2430.53 | -7.40 | -49.40 | -31.40 | 16.00 | 31.00 |
| 2430.11 | -7.40 | -49.40 | -31.40 | 16.00 | 31.00 |
| 2429.68 | -7.40 | -49.40 | -28.40 | 19.00 | 34.00 |
| 2429.25 | -7.40 | -49.40 | -28.40 | 19.00 | 34.00 |
| 2428.83 | -7.40 | -49.40 | -28.40 | 19.00 | 34.00 |

# APPENDIX B

# *EUT CONFIGURATION AND CABLE INFORMATION*

# EUT AND ACCESSORY LIST

| EQUIPMENT | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|---|---|---|---|---|
| 2.44 GHz RadioWire Modem | RADIOCONNECT CORPORATION | RCC0001 | PROTOTYPE | AJXSX-2007A |
| NETWORK INTERFACE MODULE | RADIOCONNECT CORPORATION | 007-0002-00 | PROTOTYPE | N/A |
| HELICAL ANTENNA | T-COM | P/N: 250-0001-00, 250-0001-01 | N/A | N/A |
| 0.6 METER DISH ANTENNA | T-COM | P/N: 250-0002-00, 250-0002-01 | N/A | N/A |
| 1.0 METER DISH ANTENNA | T-COM | P/N: 250-0002-00, 250-0002-01 | N/A | N/A |

DESCRIPTION OF EUT CONFIGURATION AND CABLE INFORMATION 2.44 GHz RadioWire Modem MODEL: RCC0001

EUT CONFIGURATION

The 2.44 GHz RadioWire Modem Model: RCC0001 (EUT) was placed on the wooden table and tested in three orthogonal axis. The low (channel 1), medium (channel 3), and high (channel 5) channels were tested. The EUT was connected to and powered by a Network Interface Module via its power port. The EUT was transmitting on a continuous basis and sending information to the Network Interface Module. The radiated and conducted data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in this Appendix.

**Note:** Three different antennas were tested with the EUT (Helical, 0.6 Meter Dish, and 1.0 Meter Dish). Complete data for the harmonics was taken for both antennas, while for the spurious, the 1.0 Meter Dish antenna was found to be the worst case and final data was taken with this antenna. More information about the each antenna can be found in Exhibit 7 of this package along with the duty cycle information and schematics.

## CABLE CONSTRUCTION AND TERMINATION

Cable 1

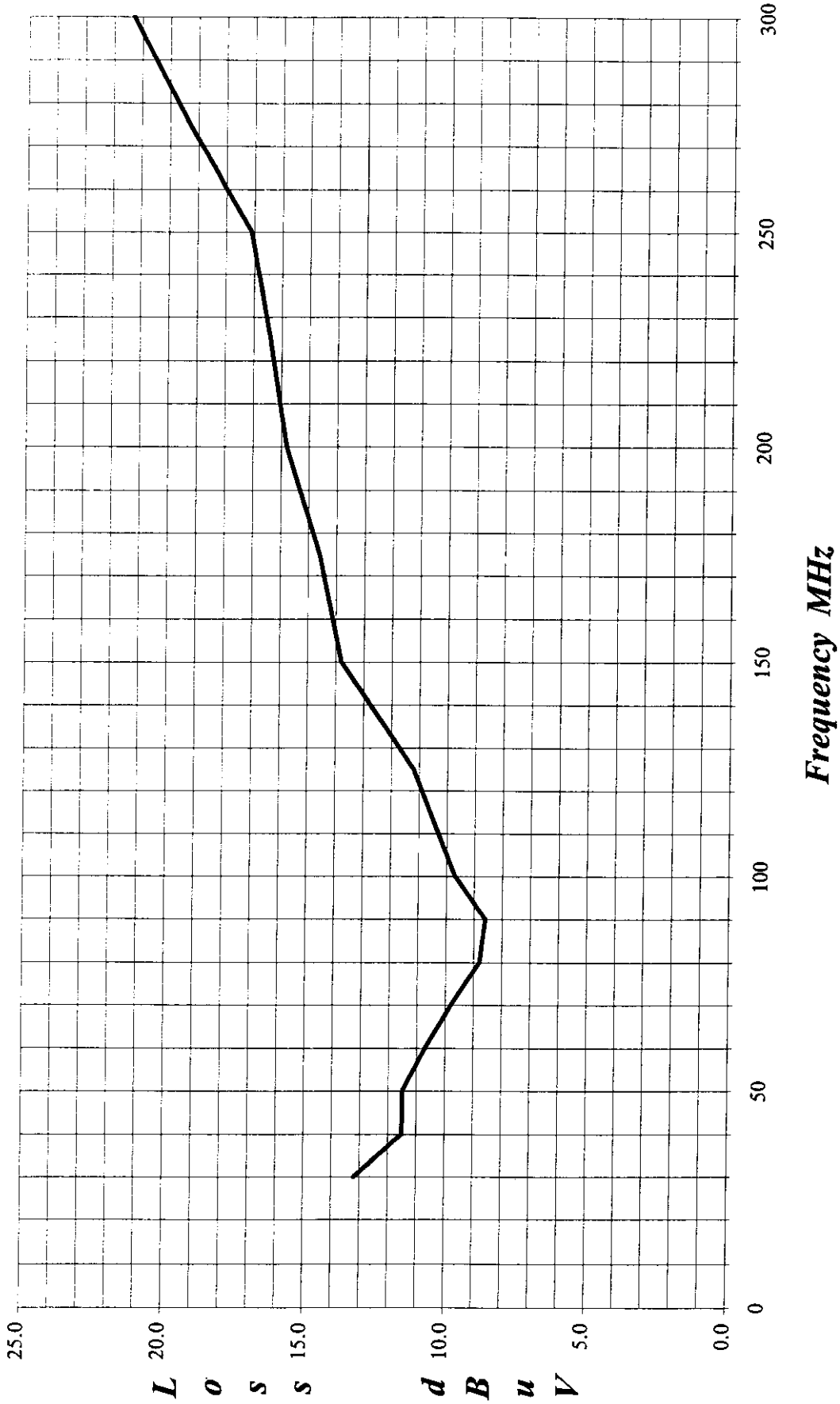
This is a 12 foot foil shielded cable connecting the Network Interface Module to the EUT. It has a metallic AMP CPC connector at the EUT end and a D-25 pin metallic connector at the Network Interface Module end. The cable was bundled to a length of 1 meter. The shield of the cable was grounded to the chassis via the connectors.

**APPENDIX C**

# *ANTENNA, AMPLIFIER FACTORS & EFFECTIVE GAIN CHARTS*

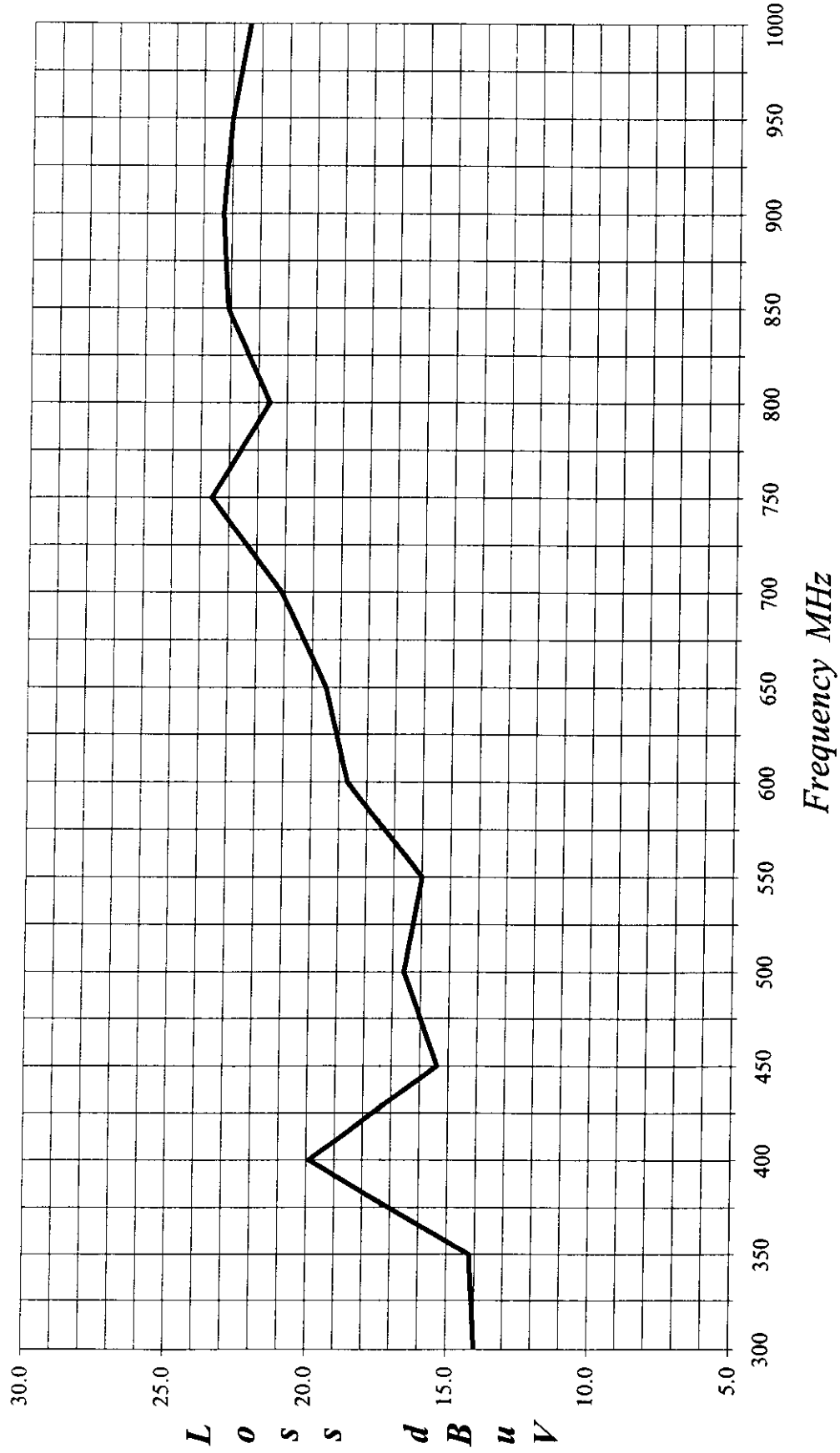
Cal: 3/24/98

LAB "D" BICONICAL ANTENNA AB-100 S/N 01548



Cal: 2/13/98

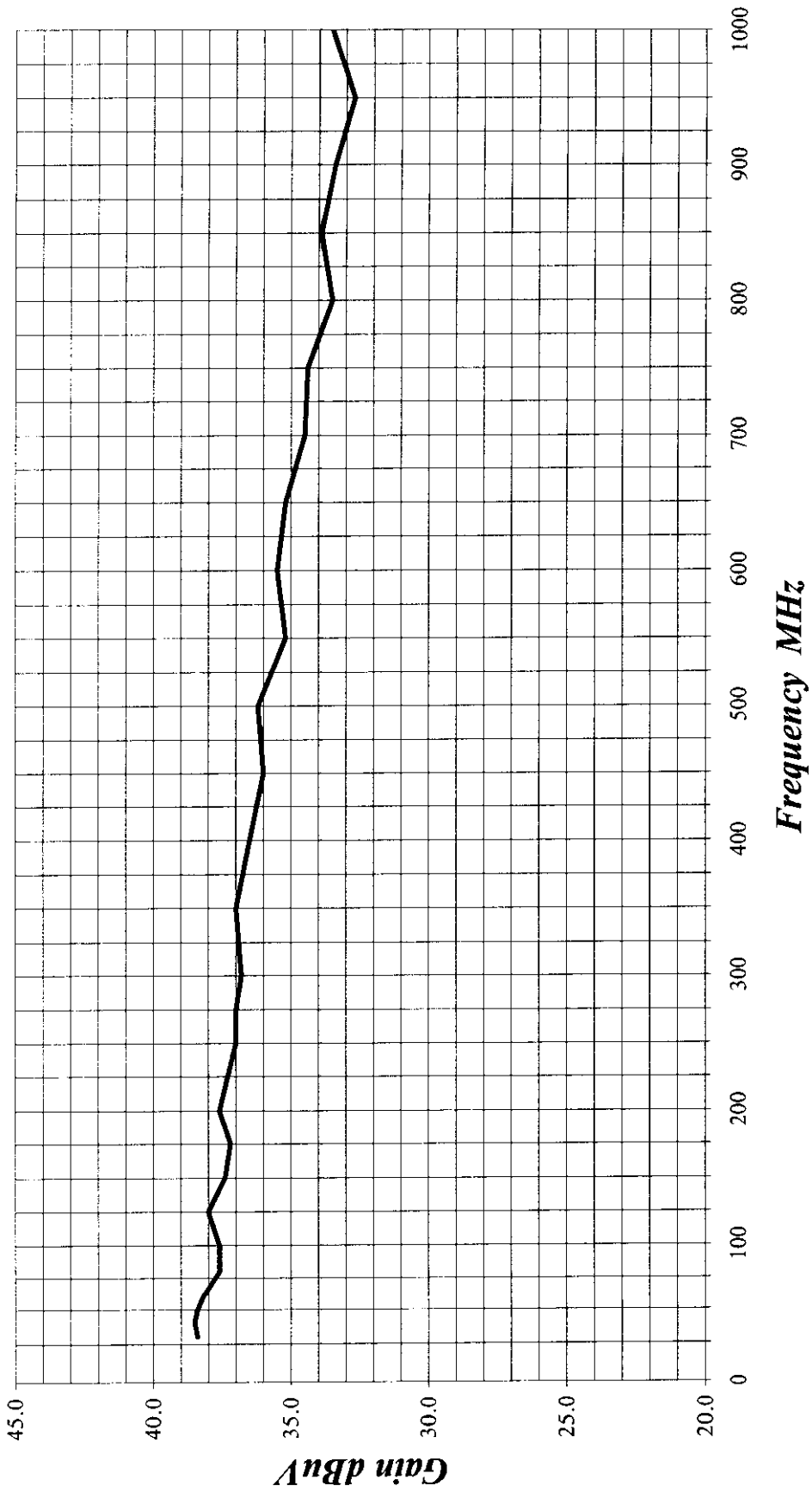
## LAB "D" LOG PERIODIC ANTENNA AL-100 S/N 01012



*Lab "D" Effective: 2/16/98*

*Effective Gain = Preamplifier Gain - Cable Loss*

***PREAMPLIFIER EFFECTIVE GAIN AT 3 METERS PA-102 S/N: 1017***



# COM-POWER PA-122

# MICROWAVE PREAMPLIFIER

## S/N: 001

## CALIBRATION DATE: MARCH 31, 1998

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|---|---|---|---|
| 1.0 | 33.0 | 8.0 | 31.4 |
| 1.1 | 33.0 | 8.5 | 30.5 |
| 1.2 | 32.9 | 9.0 | 31.4 |
| 1.3 | 32.9 | 9.5 | 32.6 |
| 1.4 | 32.8 | 10.0 | 33.1 |
| 1.5 | 32.7 | 10.5 | 32.1 |
| 1.6 | 33.0 | 11.0 | 31.0 |
| 1.7 | 33.0 | 11.5 | 31.0 |
| 1.8 | 33.1 | 12.0 | 30.9 |
| 1.9 | 32.9 | 12.5 | 30.9 |
| 2.0 | 33.1 | 13.0 | 30.4 |
| 2.5 | 32.7 | 13.5 | 31.0 |
| 3.0 | 32.4 | 14.0 | 29.3 |
| 3.5 | 32.1 | 14.5 | 28.5 |
| 4.0 | 31.8 | 15.0 | 27.6 |
| 4.5 | 31.5 | 15.5 | 27.6 |
| 5.0 | 31.6 | 16.0 | 27.3 |
| 5.5 | 32.0 | 16.5 | 29.3 |
| 6.0 | 31.6 | 17.0 | 30.4 |
| 6.5 | 32.0 | 17.5 | 31.1 |
| 7.0 | 31.4 | 18.0 | 29.7 |
| 7.5 | 32.0 | 18.5 | 29.3 |

**FCC ID: NFX-RCC0001-00**

# ANTENNA FACTORS

FOR

ANTENNA RESEARCH HORN ANTENNA
MODEL: MWH-1826/B
S/N: 1004

CALIBRATION DATE: DECEMBER 5, 1994

| FREQUENCY GHz | ANTENNA FACTOR dB |
|---|---|
| 18 | 31.8 |
| 19 | 32.1 |
| 20 | 32.0 |
| 21 | 32.4 |
| 22 | 32.5 |
| 23 | 32.8 |
| 24 | 32.9 |
| 25 | 32.9 |
| 26 | 33.4 |

FCC ID: NFX-RCC0001-00

ANTENNA RESEARCH ASSOCIATES, INC.
11317 Frederick Avenue, Beltsville, MD 20705

## E-FIELD ANTENNA FACTOR CALIBRATION

E(dB V/m) = Vo(dB V) + AFE(dB/m)

Model number : DRG-118/A

| Frequency GHz | AFE dB/m | Gain dBi |
|---|---|---|
| 1 | 22.3 | 8.0 |
| 2 | 26.7 | 9.5 |
| 3 | 29.7 | 10.1 |
| 4 | 29.5 | 12.8 |
| 5 | 32.3 | 12.0 |
| 6 | 32.4 | 13.4 |
| 7 | 36.1 | 11.0 |
| 8 | 37.4 | 10.9 |
| 9 | 36.8 | 12.5 |
| 10 | 39.5 | 10.7 |
| 11 | 39.6 | 11.5 |
| 12 | 39.8 | 12.0 |
| 13 | 39.7 | 12.8 |
| 14 | 41.8 | 11.3 |
| 15 | 41.9 | 11.9 |
| 16 | 38.1 | 16.3 |
| 17 | 41.0 | 13.9 |
| 18 | 46.5 | 8.9 |

Serial number : 1053
Job number : 96-092
Remarks : 3 meter calibration
Standards : LPD-118/A, TE-1000

Temperature : 72° F
Humidity : 56 %
Traceability : A01887
Date : December 08, 1995

Calibrated By

FCC ID: NFX-RCC0001-00

# Com-Power Corporation

(714) 587-9800

**Antenna Calibration**

| | |
|---|---|
| Antenna Type: | Loop Antenna |
| Model: | AL-130 |
| Serial Number: | 25309 |
| Calibration Date: | 2/5/98 |

| Frequency MHz | Magnetic (dB/m) | Electric dB/m |
|---|---|---|
| 0.01 | -40.5 | 11.0 |
| 0.02 | -41.6 | 9.9 |
| 0.03 | -40.0 | 11.5 |
| 0.04 | -40.3 | 11.2 |
| 0.05 | -41.6 | 9.9 |
| 0.06 | -41.1 | 10.4 |
| 0.07 | -41.3 | 10.2 |
| 0.08 | -41.6 | 9.9 |
| 0.09 | -41.7 | 9.8 |
| 0.1 | -41.8 | 9.7 |
| 0.2 | -44.0 | 7.5 |
| 0.3 | -41.6 | 9.9 |
| 0.4 | -41.7 | 9.8 |
| 0.5 | -41.7 | 9.8 |
| 0.6 | -41.5 | 10.0 |
| 0.7 | -41.5 | 10.0 |
| 0.8 | -41.6 | 9.9 |
| 0.9 | -41.6 | 9.9 |
| 1 | -41.1 | 10.4 |
| 2 | -40.7 | 10.8 |
| 3 | -40.7 | 10.8 |
| 4 | -40.9 | 10.6 |
| 5 | -40.1 | 11.4 |
| 6 | -40.0 | 11.5 |
| 7 | -40.3 | 11.2 |
| 8 | -39.8 | 11.7 |
| 9 | -38.8 | 12.7 |
| 10 | -40.8 | 10.7 |
| 12 | -41.4 | 10.1 |
| 14 | -41.4 | 10.1 |
| 15 | -40.9 | 10.6 |
| 16 | -40.8 | 10.7 |
| 18 | -41.5 | 10.0 |
| 20 | -41.5 | 10.0 |
| 25 | -41.2 | 10.3 |
| 30 | -41.4 | 10.1 |

| | |
|---|---|
| Trans. Antenna Height | 2 meter |
| Receiving Antenna Height | 2 meter |

# APPENDIX D

# *MODIFICATIONS TO THE EUT*

# MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart C Section 15.247 (c) specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

Modifications:

1) Two ferrite (FairRite P/N: 2643800502) shield beads were added to the AMP CPC connector cabling. The data wires pass straight through both beads (one turn through both beads). The power wires pass through the first bead (the bead closer to the AMP CPC connector), then passes through the second bead twice (two turns).

2) Add 1 band pass filter in series with F5 and the proprietary antenna connector. (Manufacturer: MuRata P/N: DFC32R44P084BHD)

RadioConnect CORPORATION

The following modifications to the original design of the RadioWire Modem model RCC0001 shall be made to production units to ensure compliance with FCC part 15 rules and regulations:

1) Two Fair-Rite part number 2643800502 shield beads added to the AMP CPC connector cabling. Data wires pass straight through both beads (one turn through both beads). The power wires passes through the first bead, the bead closes to the AMP CPC connector, then passes through the second bead twice (one turn on first bead, two turns on second bead).

2) One additional Murata Bandpass filter part number DFC32R44P084BHD added in between F5 and the proprietary antenna connector.

Sincerely,

H. Maurice France
President & CEO

# Theory of Operation

## General Description

The RadioWire Modem (RWM) consists of 6 different Printed Circuit Boards (PCB). The six boards are the Transceiver, I/F Demodulator, Spread Spectrum Controller, Application Processor, Backplane, and Power Supply. The antenna connects directly to the Transceiver Board through a proprietary connector that feeds through the weatherproof housing. Data and power are provided to the RWM from the outside world through a 28 pin AMP CPC connector. Differential baseband digital data connects to the RWM through twisted-pair wires.

## Transmit Path

The digital data including payload and control signals is processed by a micro-processor which resides on the Application Processor Board. This payload data is handed off to the Spread Spectrum Controller Board that adds a header, groups the data into packets and spreads the data using a 12.8 MHz chip rate and a 32,768 bit spreading code. The null-to-null bandwidth of this data now occupies 25.6 MHz.

The Spread Spectrum Controller (SSC) also orchestrates the Transmit/Receive (T/R) cycle. The entire cycle takes 2.56 ms, 1.28 ms each for both transmit and receive portions (see figure 1). The transmitter operates on a 44. 5% duty cycle, (114 bytes * 10 us / byte)/2.56 ms, during normal operations. Eight quiet, one preamble, 102 payload and 2 CRC bytes make up the structure of transmit or receive packet (see figure 2). Since the raw data rate is 800,000 bits per second for the RWM, the one-way data handling capability is (102 bytes * 8 bits/byte) / 2.56 ms = 318,750 bits-per-second. During one cycle, both transmit and receive can occur making the aggregate data rate 2 * one-way data rate = 637,500 bits-per-second.

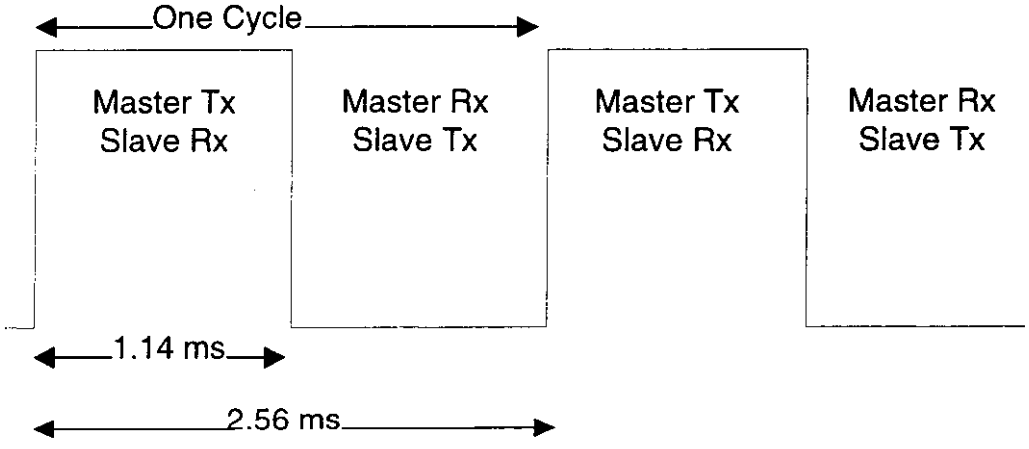
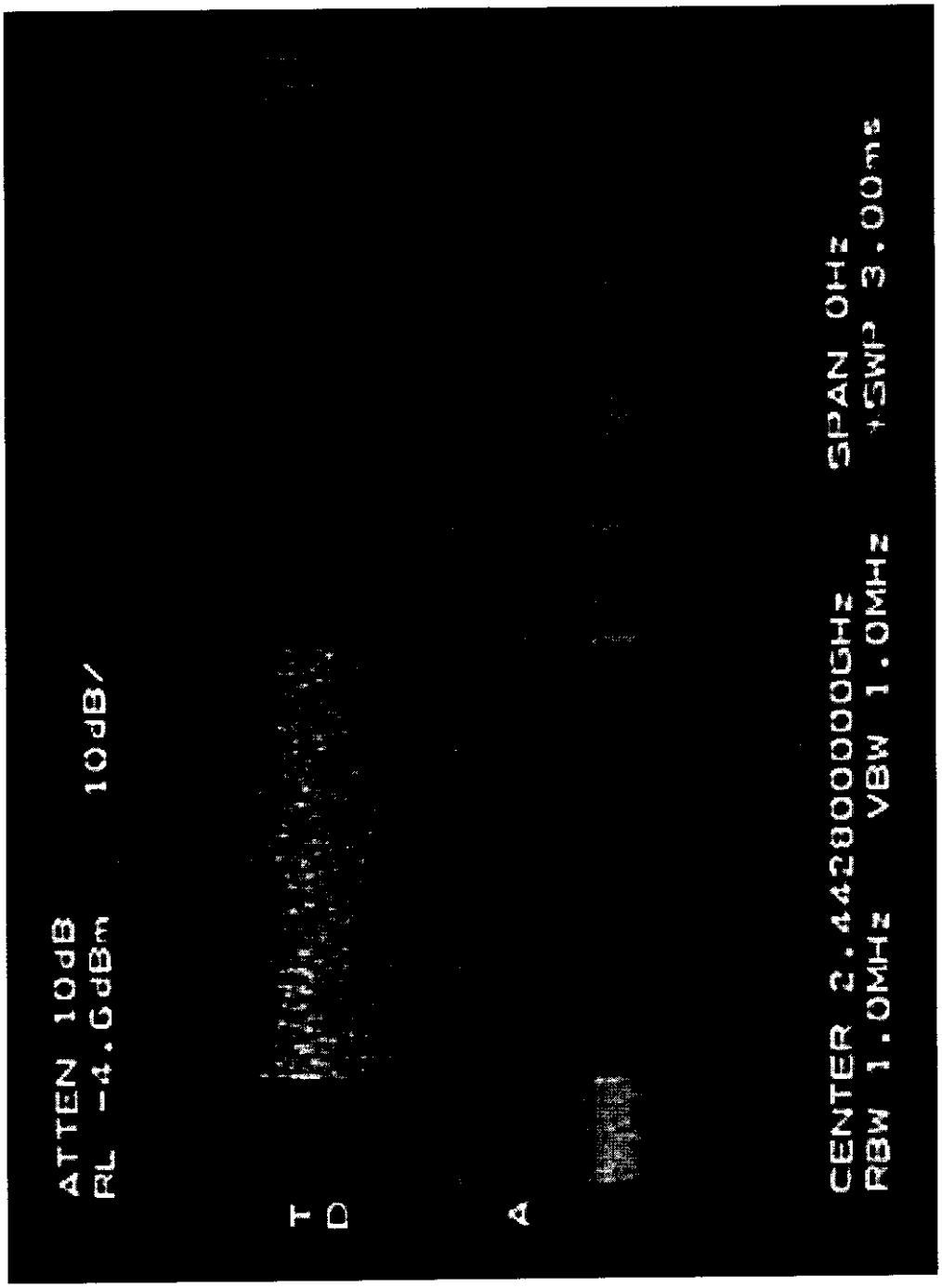



**Figure 1 Transmit/Receive Timing**

TRANSMIT DUTY CYCLE




SWEEP = 300μs/BOX