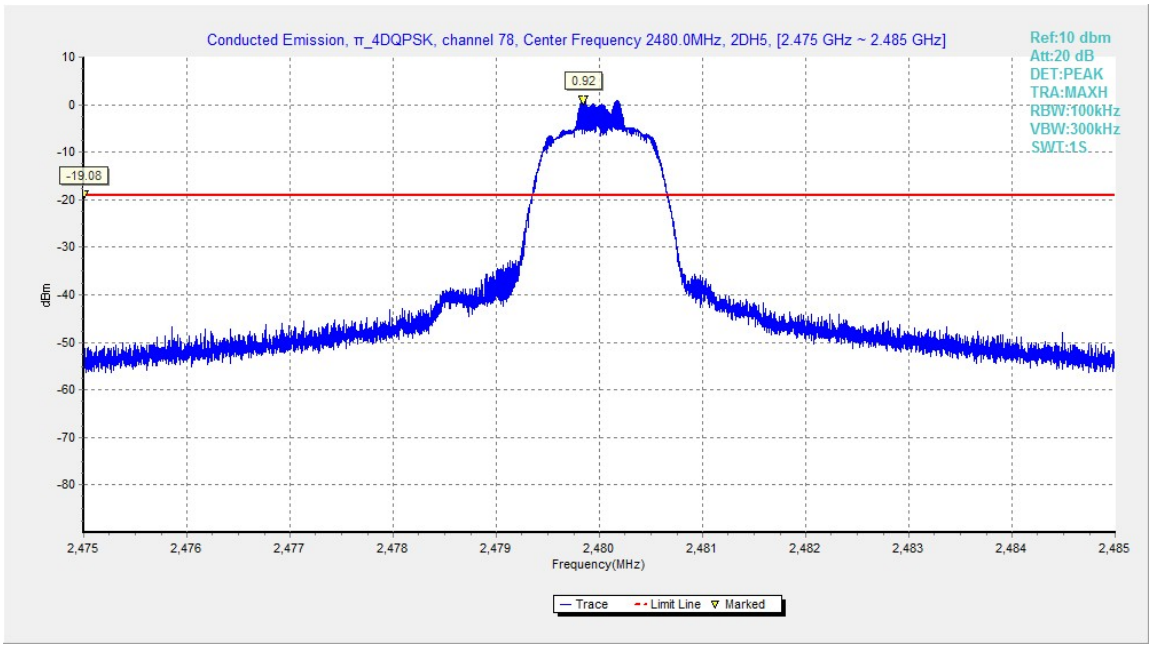



Fig.38. Conducted spurious emission: π/4 DQPSK, Channel 78, 2480MHz

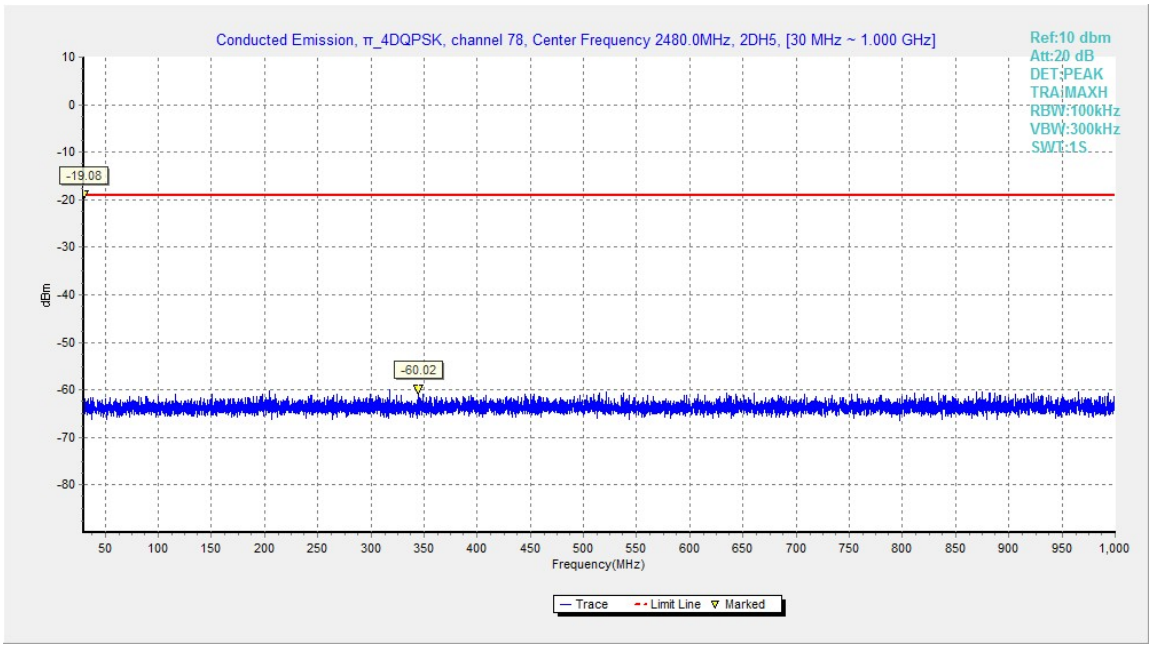



Fig.39. Conducted spurious emission: π/4 DQPSK, Channel 78, 30MHz - 1GHz

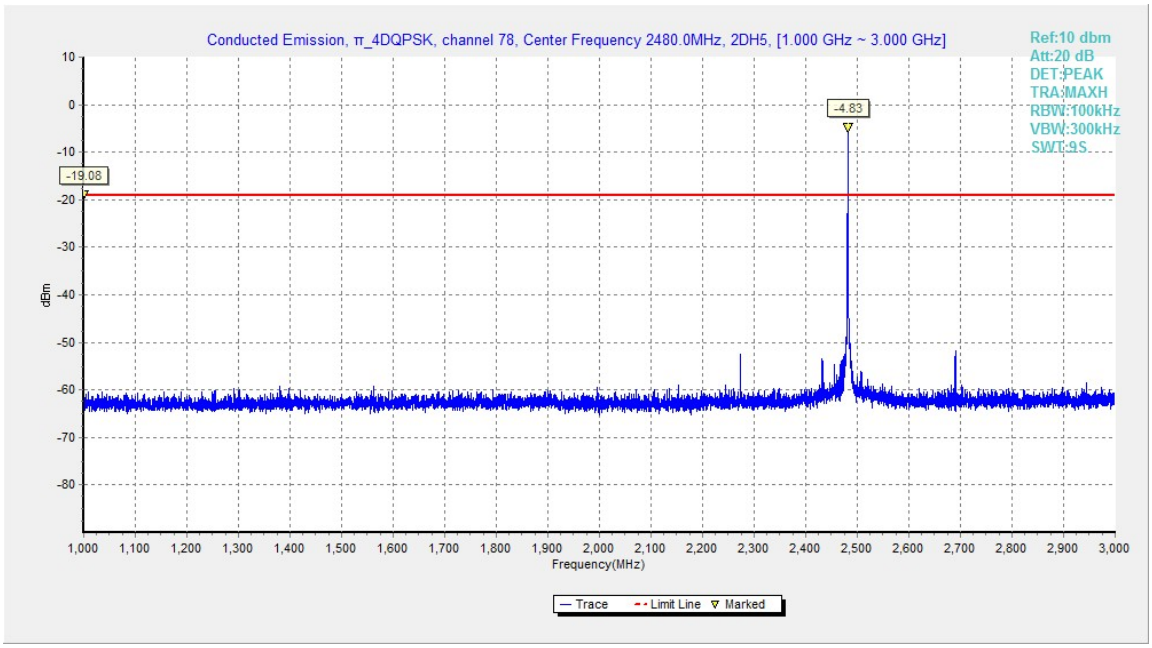



Fig.40. Conducted spurious emission: π/4 DQPSK, Channel 78, 1GHz - 3GHz

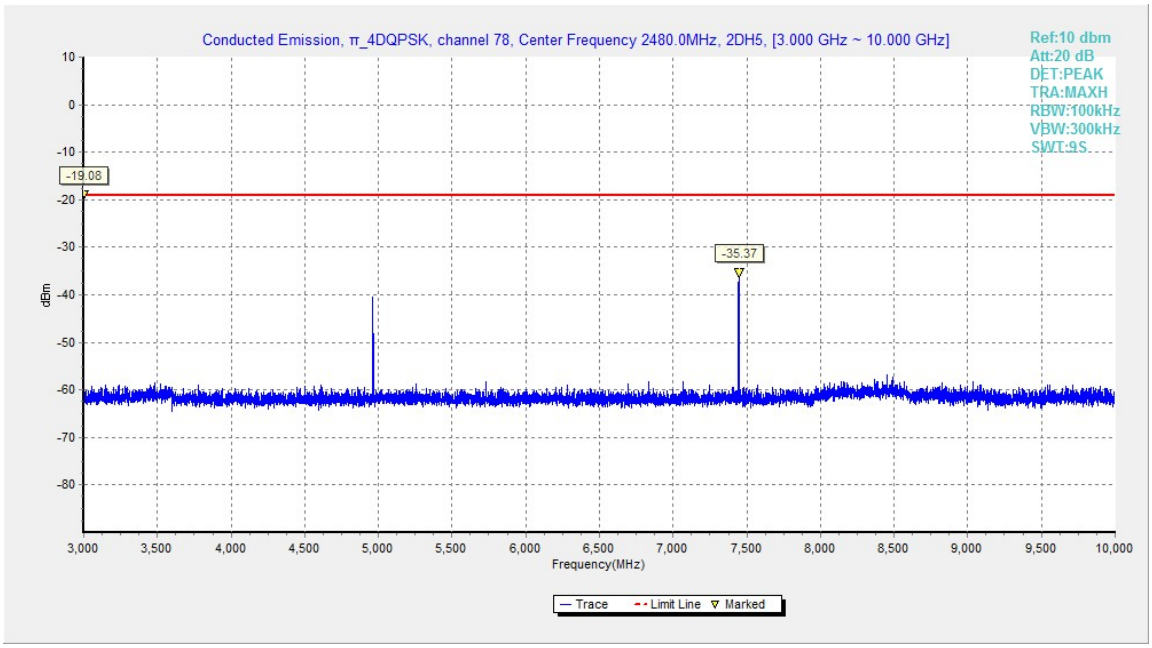



Fig.41. Conducted spurious emission: π/4 DQPSK, Channel 78, 3GHz - 10GHz

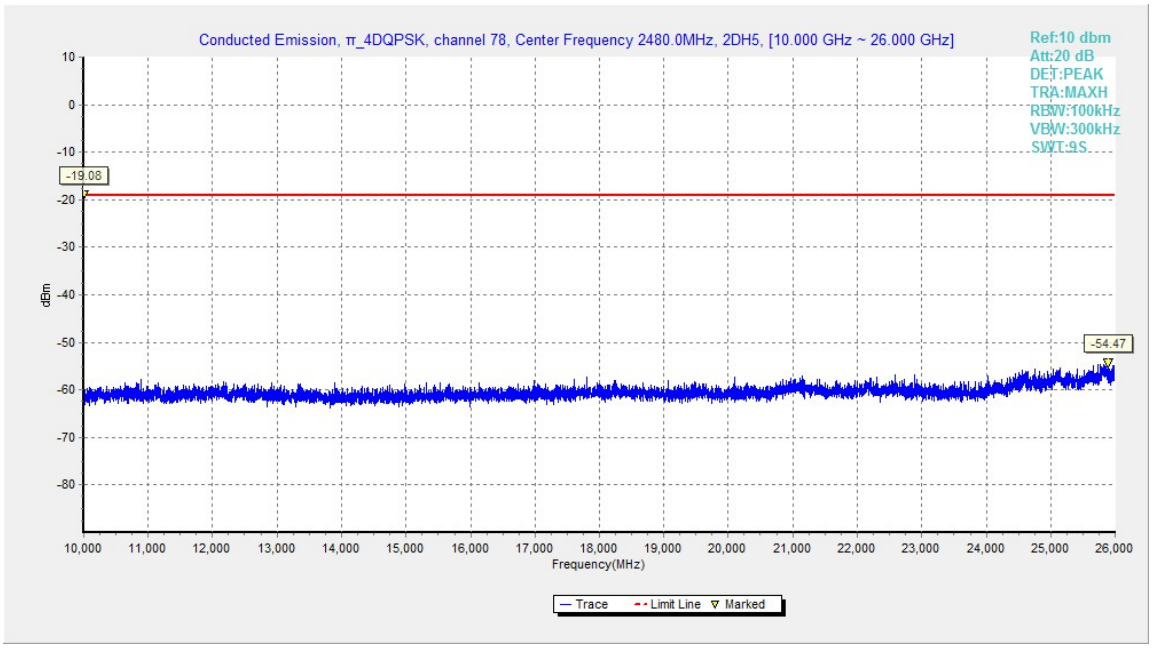



Fig.42. Fig.30 Conducted spurious emission: π/4 DQPSK, Channel 78, 10GHz - 26GHz

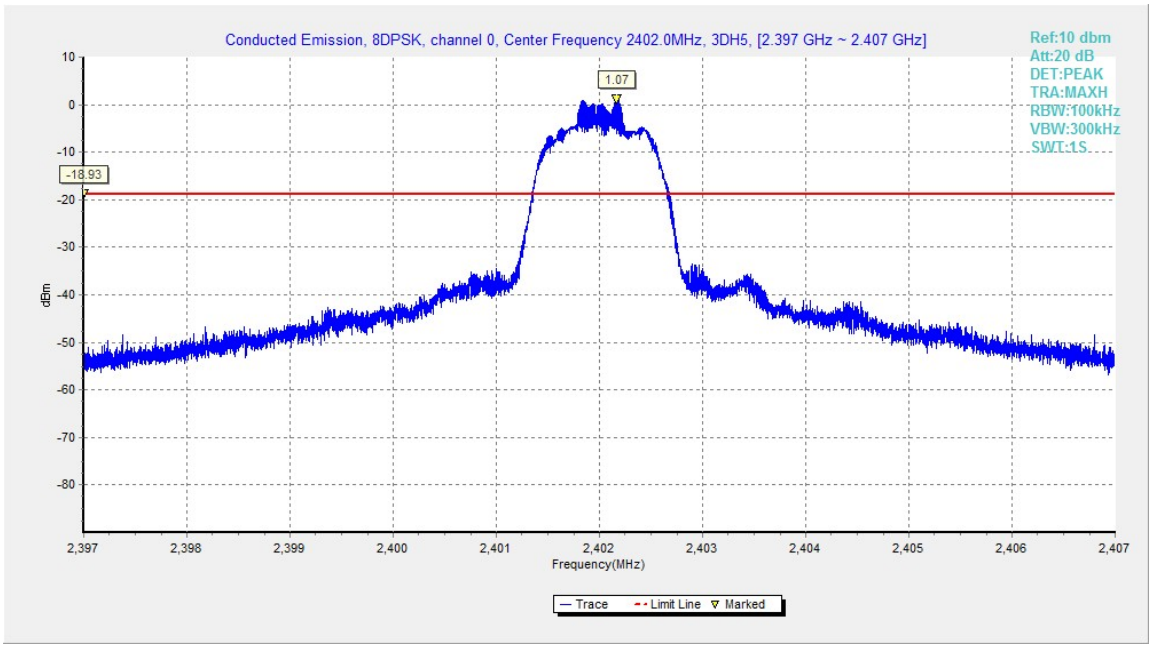



Fig.43. Conducted spurious emission: 8DPSK, Channel 0,2402MHz

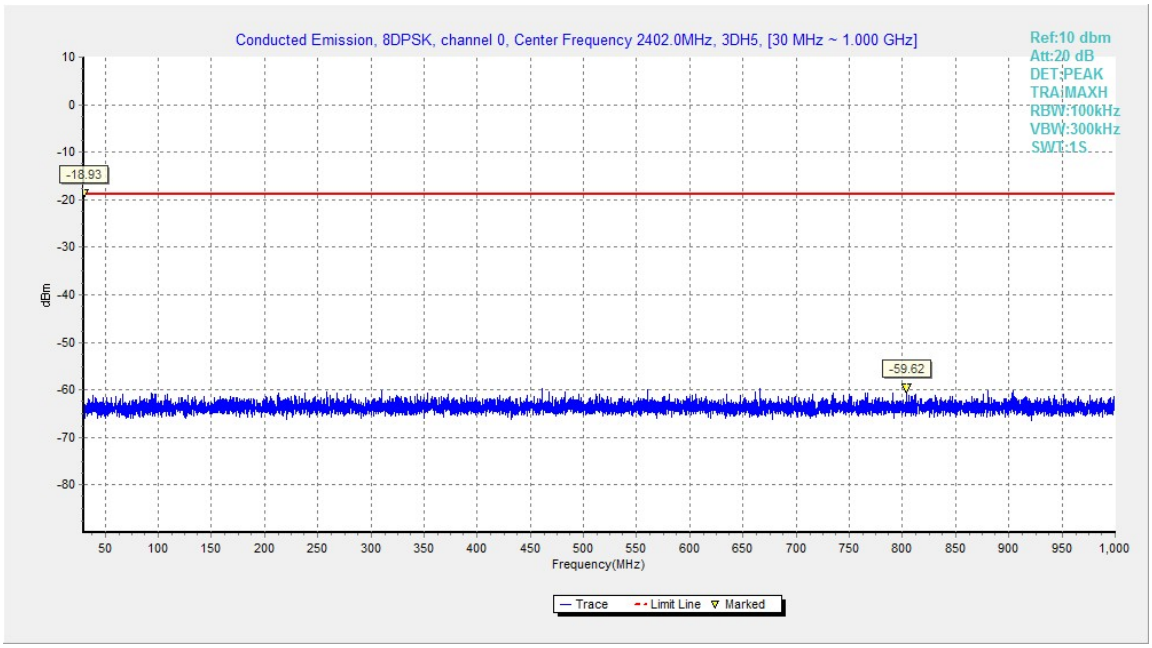



Fig.44. Conducted spurious emission: 8DPSK, Channel 0, 30MHz - 1GHz

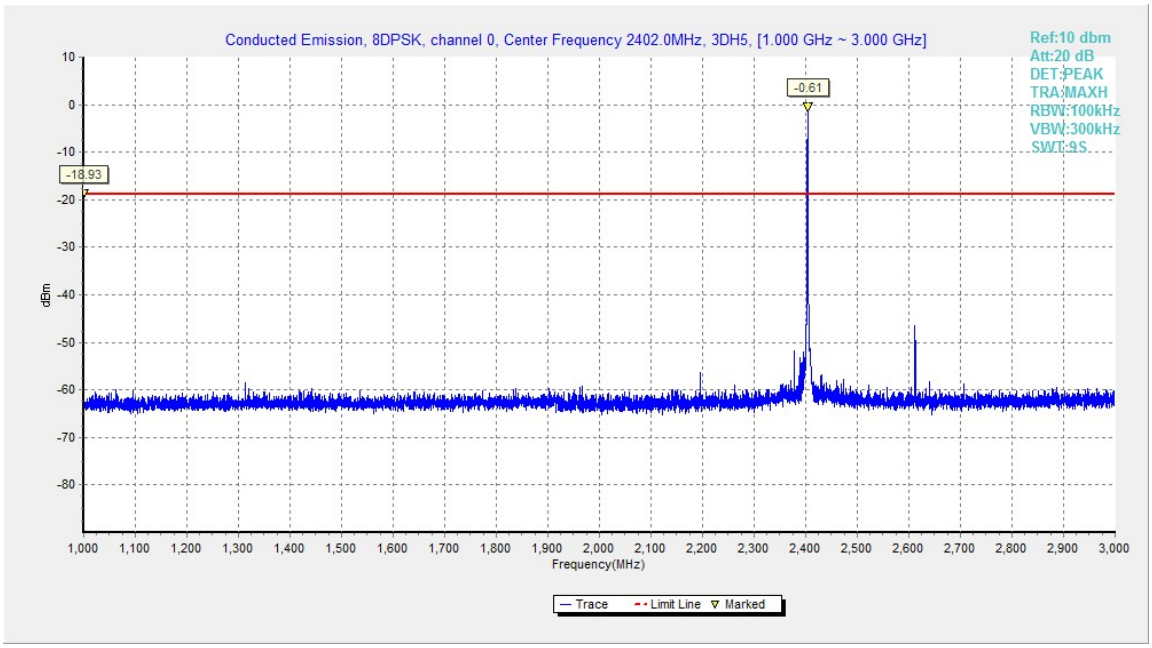



Fig.45. Conducted spurious emission: 8DPSK, Channel 0, 1GHz - 3GHz

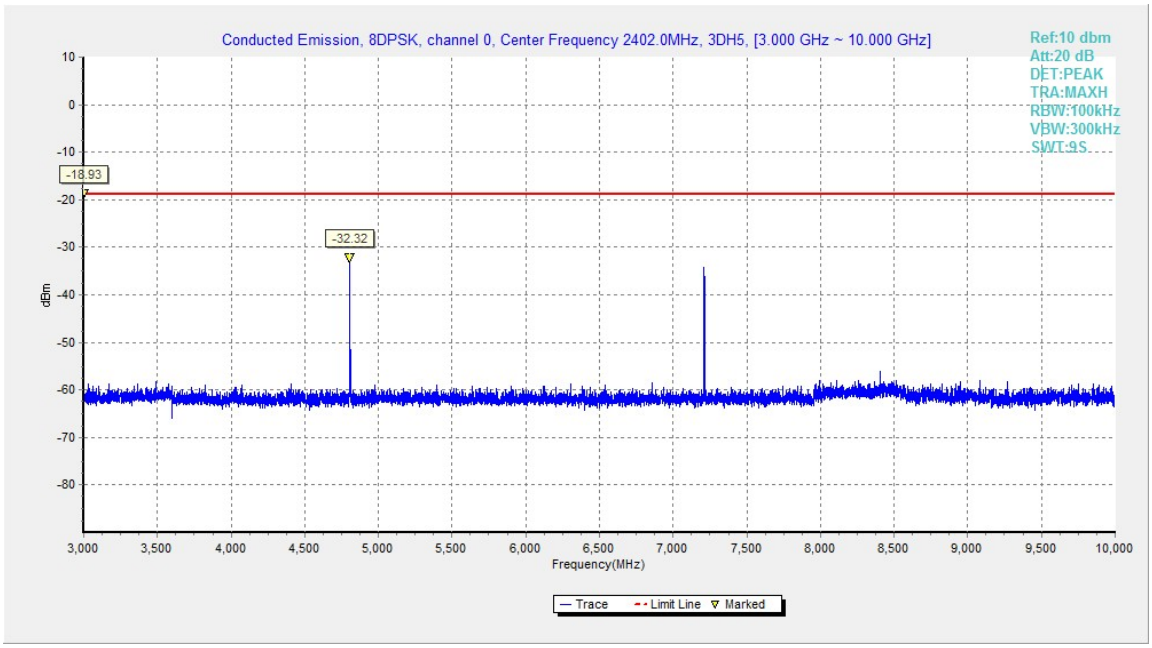



Fig.46. Conducted spurious emission: 8DPSK, Channel 0, 3GHz - 10GHz

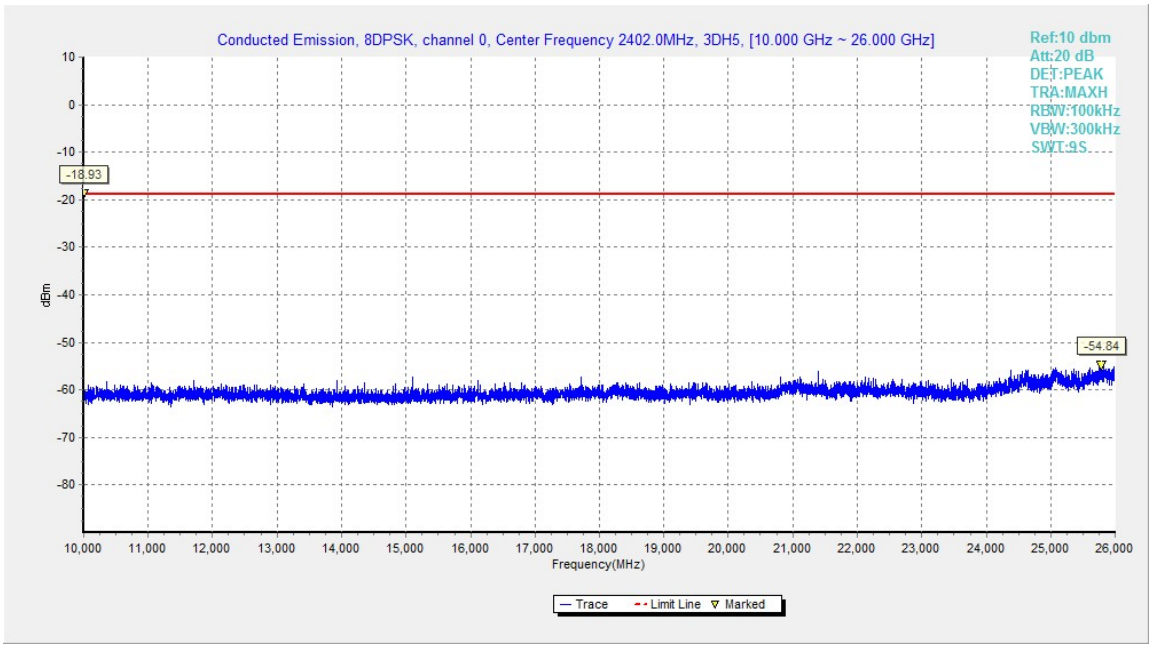



Fig.47. Conducted spurious emission: 8DPSK, Channel 0,10GHz - 26GHz

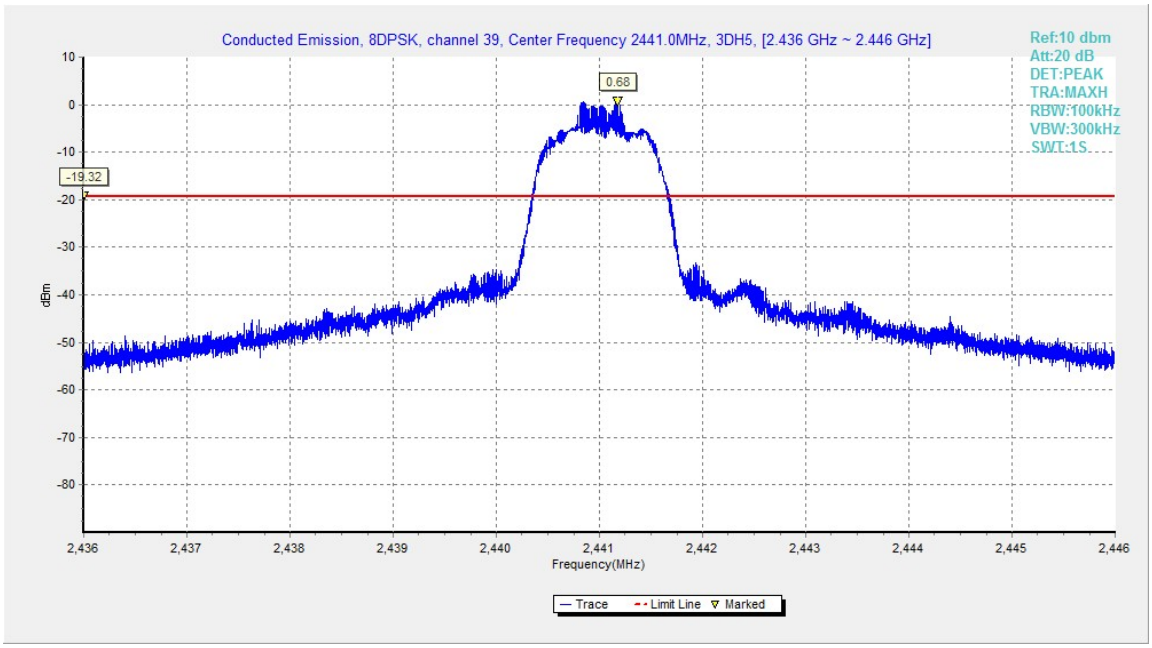



Fig.48. Conducted spurious emission: 8DPSK, Channel 39, 2441MHz

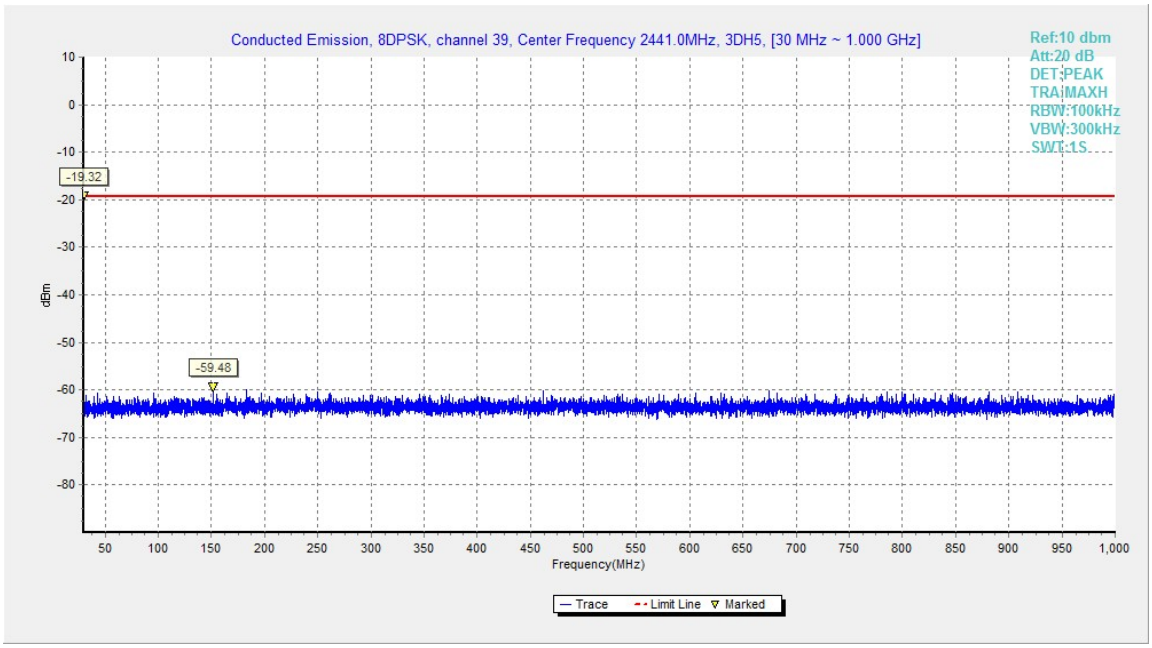



Fig.49. Conducted spurious emission: 8DPSK, Channel 39, 30MHz - 1GHz

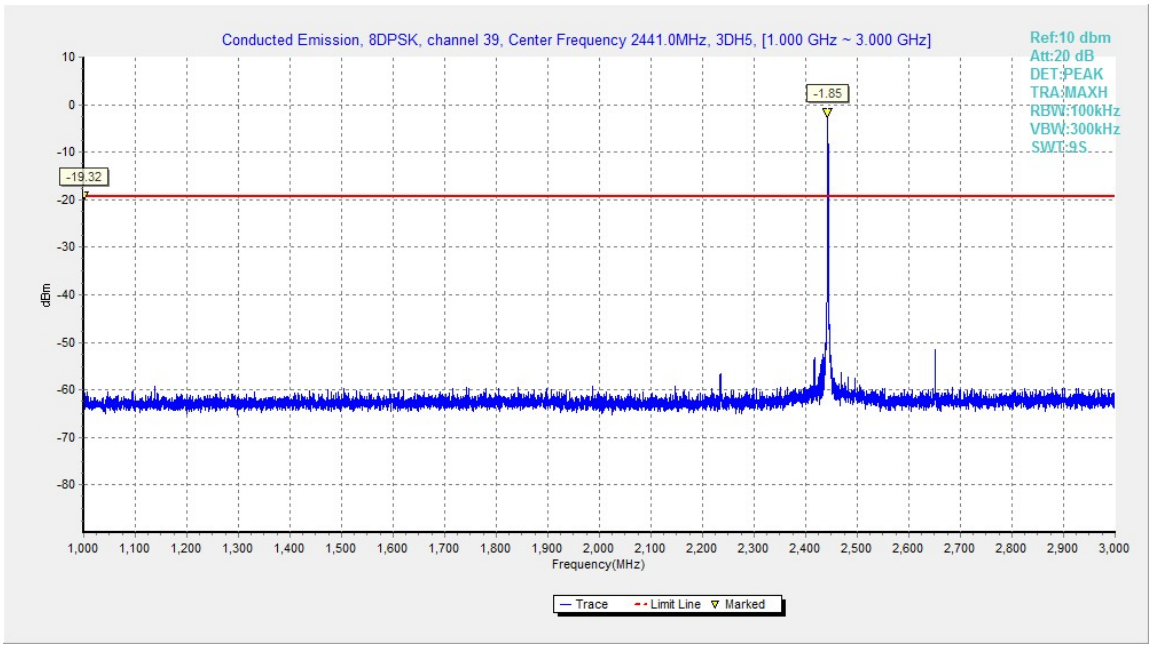



Fig.50. Conducted spurious emission: 8DPSK, Channel 39, 1GHz - 3GHz

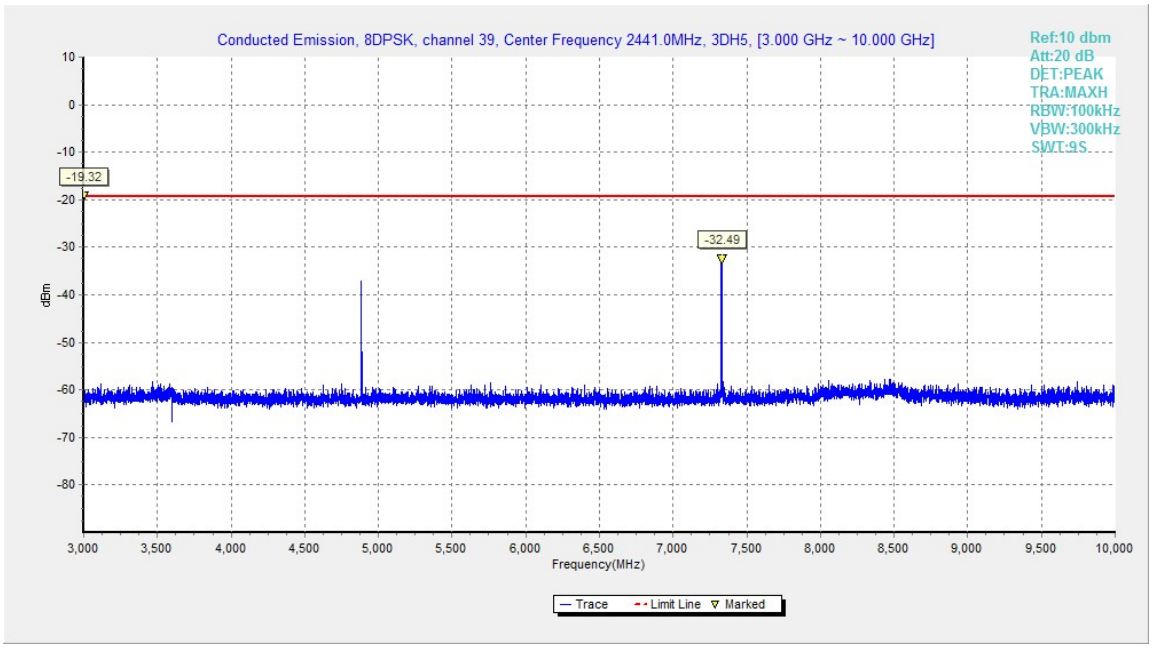



Fig.51. Conducted spurious emission: 8DPSK, Channel 39, 3GHz - 10GHz

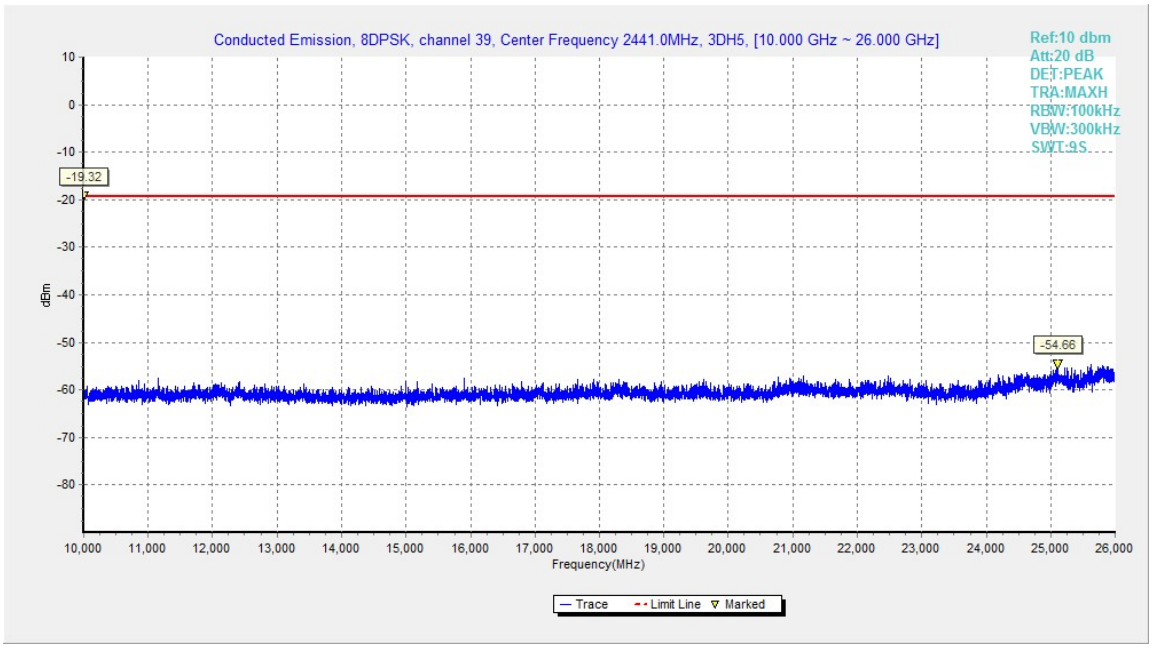



Fig.52. Conducted spurious emission: 8DPSK, Channel 39, 10GHz – 26GHz

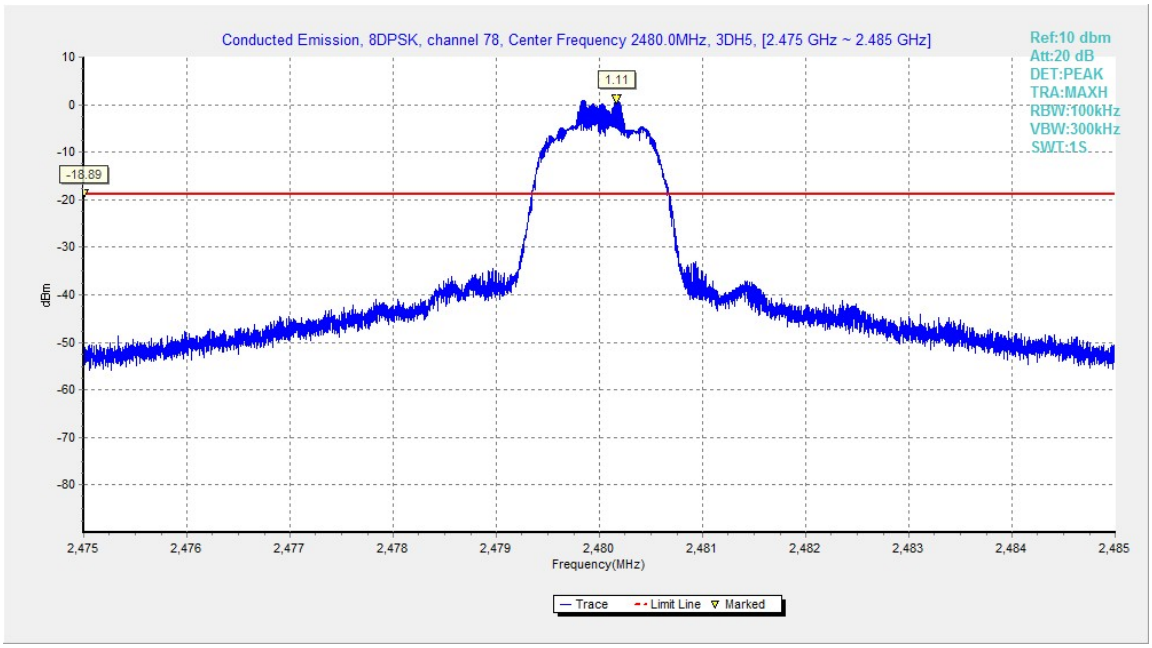



Fig.53. Conducted spurious emission: 8DPSK, Channel 78, 2480MHz

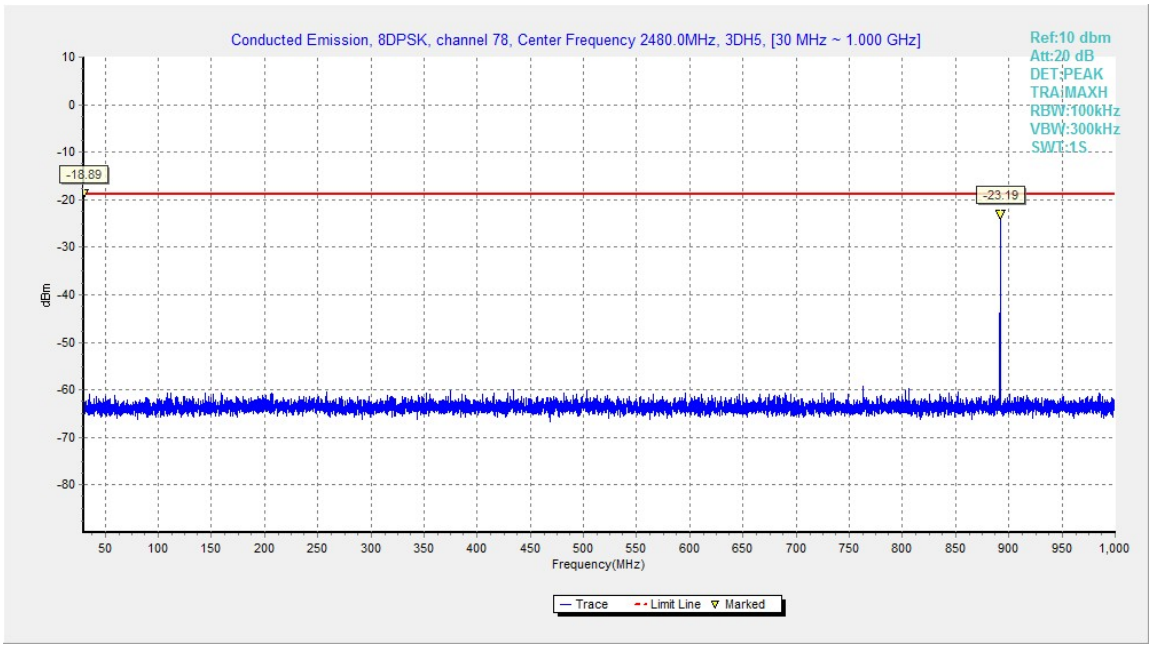



Fig.54. Conducted spurious emission: 8DPSK, Channel 78, 30MHz - 1GHz

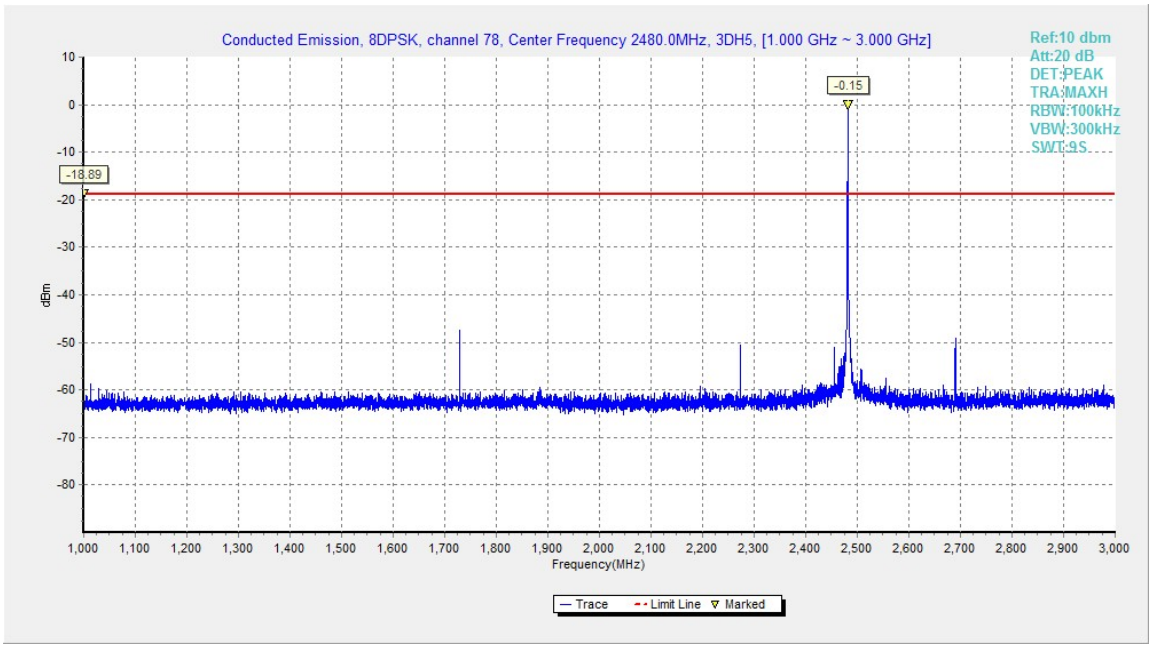



Fig.55. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 3GHz

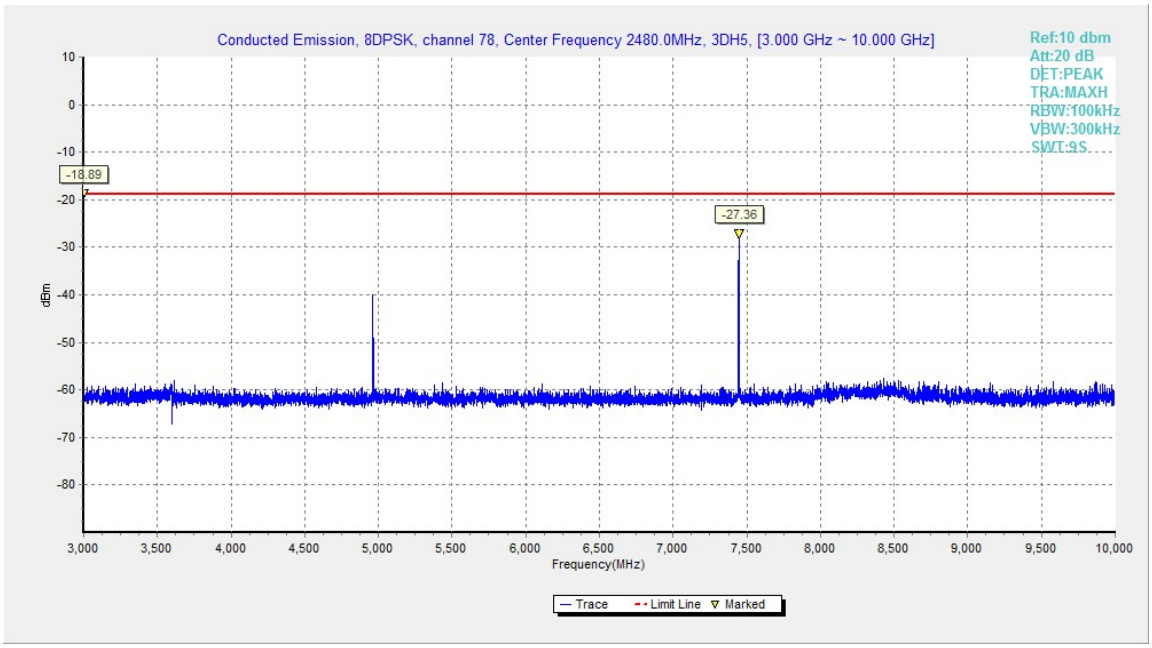



Fig.56. Conducted spurious emission: 8DPSK, Channel 78, 3GHz - 10GHz

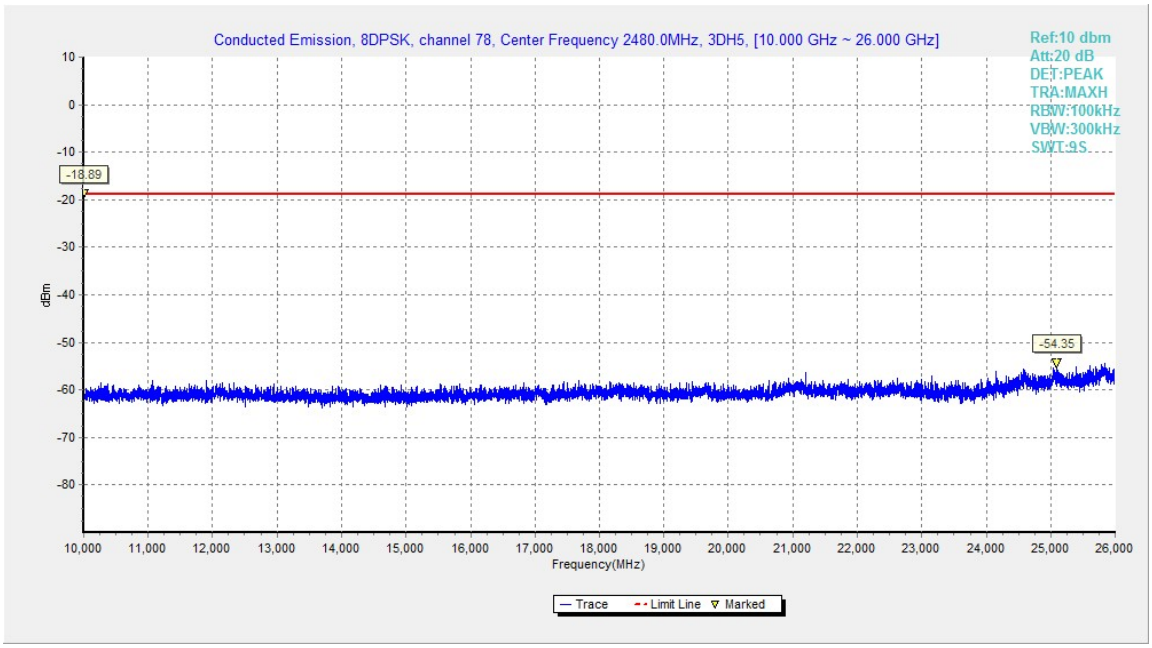



Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 10GHz - 26GHz

## A.5. Radiated Emission

**Measurement Limit:**

| Standard | Limit |
|---|---|
| FCC 47 CFR Part 15.247, 15.205, 15.209 | 20dB below peak output power |

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

The measurement is made according to ANSI C63.10

**Limit in restricted band:**

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|---|---|---|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

**Test Condition**

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

| Frequency of emission (MHz) | RBW/VBW | Sweep Time(s) |
|---|---|---|
| 30-1000 | 100KHz/300KHz | 5 |
| 1000-4000 | 1MHz/1MHz | 15 |
| 4000-18000 | 1MHz/1MHz | 40 |
| 18000-26500 | 1MHz/1MHz | 20 |

**Measurement Results:**

Result=$P_{Mea}$+ARPL

**For GFSK**

| Channel | Frequency Range | Test Results | Conclusion |
|---|---|---|---|
| Ch 0<br>2402 MHz | 1 GHz ~ 3 GHz | Fig.58 | P |
| | 3 GHz ~ 18 GHz | Fig.59 | P |
| Ch 39<br>2441 MHz | 9 kHz ~ 30 MHz | Fig.60 | P |
| | 30 MHz ~ 1 GHz | Fig.61 | P |
| | 1 GHz ~ 3 GHz | Fig.62 | P |
| | 3 GHz ~ 18 GHz | Fig.63 | P |
| Ch 78<br>2480 MHz | 1 GHz ~ 3 GHz | Fig.64 | P |
| | 3 GHz ~ 18 GHz | Fig.65 | P |
| Power | 2.38GHz~2.4GHz---L | Fig.66 | P |
| Power | 2.45GHz~2.5GHz---H | Fig.67 | P |

| | | | |
|---|---|---|---|
| For all channels | 18 GHz ~ 26 GHz | Fig.68 | P |

**Forπ/4 DQPSK**

| Channel | Frequency Range | Test Results | Conclusion |
|---|---|---|---|
| Ch 0<br>2402 MHz | 1 GHz ~ 3 GHz | Fig.69 | P |
| | 3 GHz ~ 18 GHz | Fig.70 | P |
| Ch 39<br>2441 MHz | 30 MHz ~ 1 GHz | Fig.71 | P |
| | 1 GHz ~ 3 GHz | Fig.72 | P |
| | 3 GHz ~ 18 GHz | Fig.73 | P |
| Ch 78<br>2480 MHz | 1 GHz ~ 3 GHz | Fig.74 | P |
| | 3 GHz ~ 18 GHz | Fig.75 | P |
| Power | 2.38GHz~2.4GHz---L | Fig.76 | P |
| Power | 2.45GHz~2.5GHz---H | Fig.77 | P |
| For all channels | 18 GHz ~ 26 GHz | Fig.78 | P |

**For 8DPSK**

| Channel | Frequency Range | Test Results | Conclusion |
|---|---|---|---|
| Ch 0<br>2402 MHz | 1 GHz ~ 3 GHz | Fig.79 | P |
| | 3 GHz ~ 18 GHz | Fig.80 | P |
| Ch 39<br>2441 MHz | 30 MHz ~ 1 GHz | Fig.81 | P |
| | 1 GHz ~ 3 GHz | Fig.82 | P |
| | 3 GHz ~ 18 GHz | Fig.83 | P |
| Ch 78<br>2480 MHz | 1 GHz ~ 3 GHz | Fig.84 | P |
| | 3 GHz ~ 18 GHz | Fig.85 | P |
| Power | 2.38GHz~2.4GHz---L | Fig.86 | P |
| Power | 2.45GHz~2.5GHz---H | Fig.87 | P |
| For all channels | 18 GHz ~ 26 GHz | Fig.88 | P |

**GFSK Ch 0 – Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2389.835 | 41.9 | -38.8 | 27.7 | 53.0 | H |
| 17997.188 | 50.2 | -17.7 | 45.6 | 22.3 | H |
| 18000.000 | 50.0 | -45.6 | 44.5 | 51.1 | V |
| 17986.406 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17993.438 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17997.656 | 49.9 | -17.7 | 45.6 | 22.0 | H |

**GFSK Ch 39 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 17994.375 | 50.0 | -17.7 | 45.6 | 22.100 | H |
| 17997.656 | 49.9 | -17.7 | 45.6 | 22.000 | H |

| | | | | | |
|---|---|---|---|---|---|
| 17996.719 | 49.9 | -17.7 | 45.6 | 22.000 | V |
| 17998.594 | 49.9 | -17.7 | 45.6 | 22.000 | H |
| 17993.438 | 49.9 | -17.7 | 45.6 | 22.000 | H |
| 17996.250 | 49.9 | -17.7 | 45.6 | 22.000 | H |

**GFSK Ch 78 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2483.620 | 38.3 | -38.9 | 27.7 | 49.5 | H |
| 17997.188 | 50.1 | -17.7 | 45.6 | 22.2 | H |
| 17984.063 | 50.0 | -17.7 | 45.6 | 22.1 | V |
| 17990.156 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17988.281 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17993.906 | 49.9 | -17.7 | 45.6 | 22.0 | H |

**π/4 DQPSK Ch 0 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2386.415 | 32.8 | -38.8 | 27.7 | 43.9 | H |
| 17997.1875 | 50.2 | -17.7 | 45.6 | 22.3 | H |
| 18000 | 50 | -45.6 | 44.5 | 51.1 | V |
| 17986.40625 | 50 | -17.7 | 45.6 | 22.1 | H |
| 17993.4375 | 50 | -17.7 | 45.6 | 22.1 | H |
| 17997.65625 | 49.9 | -17.7 | 45.6 | 22 | H |

**π/4 DQPSK Ch 39 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 17994.375 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17997.656 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17996.719 | 49.9 | -17.7 | 45.6 | 22.0 | V |
| 17998.594 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17993.438 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17996.250 | 49.9 | -17.7 | 45.6 | 22.0 | H |

**π/4 DQPSK Ch 78 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2483.250 | 35.5 | -38.9 | 27.7 | 46.7 | H |
| 17997.188 | 50.1 | -17.7 | 45.6 | 22.2 | H |
| 17984.063 | 50.0 | -17.7 | 45.6 | 22.1 | V |

| | | | | | |
|---|---|---|---|---|---|
| 17990.156 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17988.281 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17993.906 | 49.9 | -17.7 | 45.6 | 22.0 | H |

**8DPSK Ch 0 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2389.780 | 32.7 | -38.8 | 27.7 | 43.8 | H |
| 17990.625 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17982.188 | 50.0 | -17.7 | 45.6 | 22.1 | V |
| 17988.750 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17988.281 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17998.594 | 49.9 | -17.7 | 45.6 | 22.0 | H |

**8DPSK Ch 39 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 17994.375 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17997.656 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17996.719 | 49.9 | -17.7 | 45.6 | 22.0 | V |
| 17998.594 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17993.438 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17996.250 | 49.9 | -17.7 | 45.6 | 22.0 | H |

**8DPSK Ch 78 - Average**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2484.030 | 36.3 | -38.9 | 27.7 | 47.5 | H |
| 17997.188 | 50.1 | -17.7 | 45.6 | 22.2 | H |
| 17984.063 | 50.0 | -17.7 | 45.6 | 22.1 | V |
| 17990.156 | 50.0 | -17.7 | 45.6 | 22.1 | H |
| 17988.281 | 49.9 | -17.7 | 45.6 | 22.0 | H |
| 17993.906 | 49.9 | -17.7 | 45.6 | 22.0 | H |

**GFSK Ch 0 – Peak**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2389.815 | 61.9 | -38.8 | 27.7 | 73.0 | H |
| 17984.063 | 61.9 | -17.7 | 45.6 | 34.0 | H |
| 17997.188 | 60.9 | -17.7 | 45.6 | 33.0 | V |
| 17990.625 | 60.8 | -17.7 | 45.6 | 32.9 | H |

| | | | | | |
|---|---|---|---|---|---|
| 17981.250 | 60.8 | -17.7 | 45.6 | 32.9 | H |
| 17999.063 | 60.7 | -17.7 | 45.6 | 32.8 | H |

**GFSK Ch 39 - Peak**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 17998.594 | 60.5 | -17.7 | 45.6 | 32.6 | H |
| 17992.031 | 60.5 | -17.7 | 45.6 | 32.6 | H |
| 17991.563 | 60.4 | -17.7 | 45.6 | 32.5 | V |
| 17997.656 | 60.3 | -17.7 | 45.6 | 32.4 | H |
| 17967.656 | 60.3 | -17.7 | 45.6 | 32.4 | H |
| 17984.531 | 60.1 | -17.7 | 45.6 | 32.2 | H |

**GFSK Ch 78 - Peak**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2483.620 | 73.6 | -38.9 | 27.7 | 84.800 | H |
| 17988.750 | 60.9 | -17.7 | 45.6 | 33.000 | H |
| 17988.281 | 60.8 | -17.7 | 45.6 | 32.900 | V |
| 17990.625 | 60.6 | -17.7 | 45.6 | 32.700 | H |
| 17983.125 | 60.6 | -17.7 | 45.6 | 32.700 | H |
| 17994.375 | 60.5 | -17.7 | 45.6 | 32.600 | H |

**π/4 DQPSK Ch 0 - Peak**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2388.945 | 60.2 | -38.8 | 27.7 | 71.3 | H |
| 17984.063 | 61.9 | -17.7 | 45.6 | 34.0 | H |
| 17997.188 | 60.9 | -17.7 | 45.6 | 33.0 | V |
| 17990.625 | 60.8 | -17.7 | 45.6 | 32.9 | H |
| 17981.250 | 60.8 | -17.7 | 45.6 | 32.9 | H |
| 17999.063 | 60.7 | -17.7 | 45.6 | 32.8 | H |

**π/4 DQPSK Ch 39 - Peak**

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 17998.594 | 60.5 | -17.7 | 45.6 | 32.6 | H |
| 17992.031 | 60.5 | -17.7 | 45.6 | 32.6 | H |
| 17991.563 | 60.4 | -17.7 | 45.6 | 32.5 | V |
| 17997.656 | 60.3 | -17.7 | 45.6 | 32.4 | H |
| 17967.656 | 60.3 | -17.7 | 45.6 | 32.4 | H |

| | | | | | |
|---|---|---|---|---|---|
| 17984.531 | 60.1 | -17.7 | 45.6 | 32.2 | H |

**π/4 DQPSK Ch 78 - Peak**

| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2483.680 | 70.3 | -38.9 | 27.7 | 81.5 | H |
| 17988.750 | 60.9 | -17.7 | 45.6 | 33.0 | H |
| 17988.281 | 60.8 | -17.7 | 45.6 | 32.9 | V |
| 17990.625 | 60.6 | -17.7 | 45.6 | 32.7 | H |
| 17983.125 | 60.6 | -17.7 | 45.6 | 32.7 | H |
| 17994.375 | 60.5 | -17.7 | 45.6 | 32.6 | H |

**8DPSK Ch 0 - Peak**

| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2389.835 | 51.2 | -38.8 | 27.7 | 62.3 | H |
| 17992.969 | 61.4 | -17.7 | 45.6 | 33.5 | H |
| 17993.438 | 61.2 | -17.7 | 45.6 | 33.3 | V |
| 17998.125 | 61.1 | -17.7 | 45.6 | 33.2 | H |
| 17996.250 | 60.8 | -17.7 | 45.6 | 32.9 | H |
| 17988.750 | 60.8 | -17.7 | 45.6 | 32.9 | H |

**8DPSK Ch 39 - Peak**

| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 17998.594 | 60.5 | -17.7 | 45.6 | 32.6 | H |
| 17992.031 | 60.5 | -17.7 | 45.6 | 32.6 | H |
| 17991.563 | 60.4 | -17.7 | 45.6 | 32.5 | V |
| 17997.656 | 60.3 | -17.7 | 45.6 | 32.4 | H |
| 17967.656 | 60.3 | -17.7 | 45.6 | 32.4 | H |
| 17984.531 | 60.1 | -17.7 | 45.6 | 32.2 | H |

**8DPSK Ch 78 - Peak**

| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Antenna Pol. (H/V) |
|---|---|---|---|---|---|
| 2483.875 | 64.4 | -38.9 | 27.7 | 75.6 | H |
| 17988.750 | 60.9 | -17.7 | 45.6 | 33.0 | H |
| 17988.281 | 60.8 | -17.7 | 45.6 | 32.9 | V |
| 17990.625 | 60.6 | -17.7 | 45.6 | 32.7 | H |
| 17983.125 | 60.6 | -17.7 | 45.6 | 32.7 | H |
| 17994.375 | 60.5 | -17.7 | 45.6 | 32.6 | H |

**Conclusion: PASS**

**Test graphs as below:**

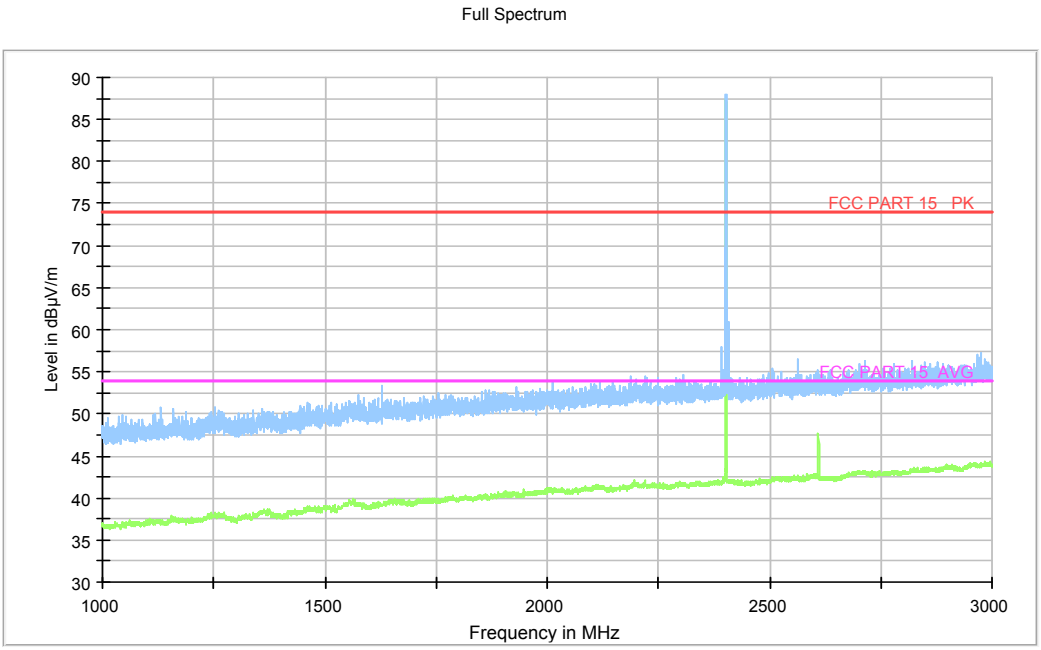



Fig.58. Radiated emission: GFSK, Channel 0, 1 GHz - 3 GHz

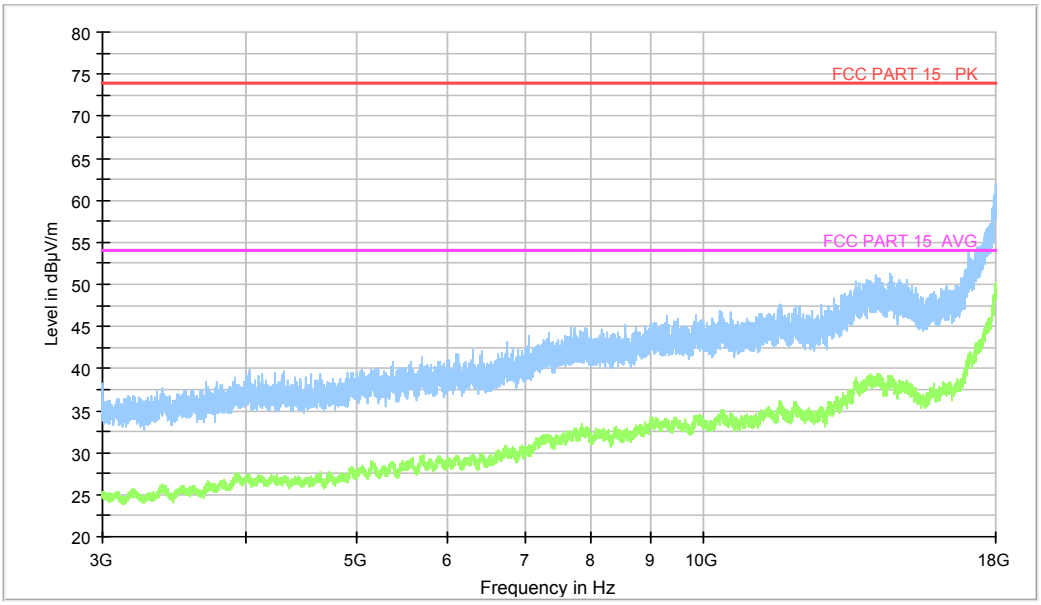



Fig.59. Radiated emission: GFSK, Channel 0, 3 GHz - 18 GHz

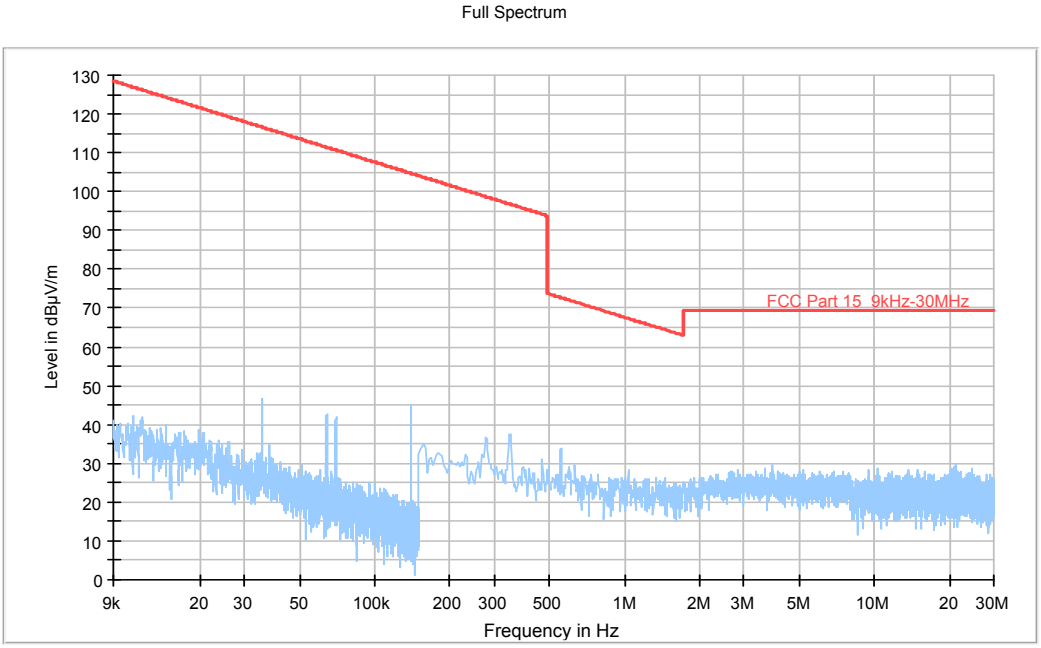



Fig.60. Radiated emission: GFSK, Channel 39, 9 kHz - 30 MHz

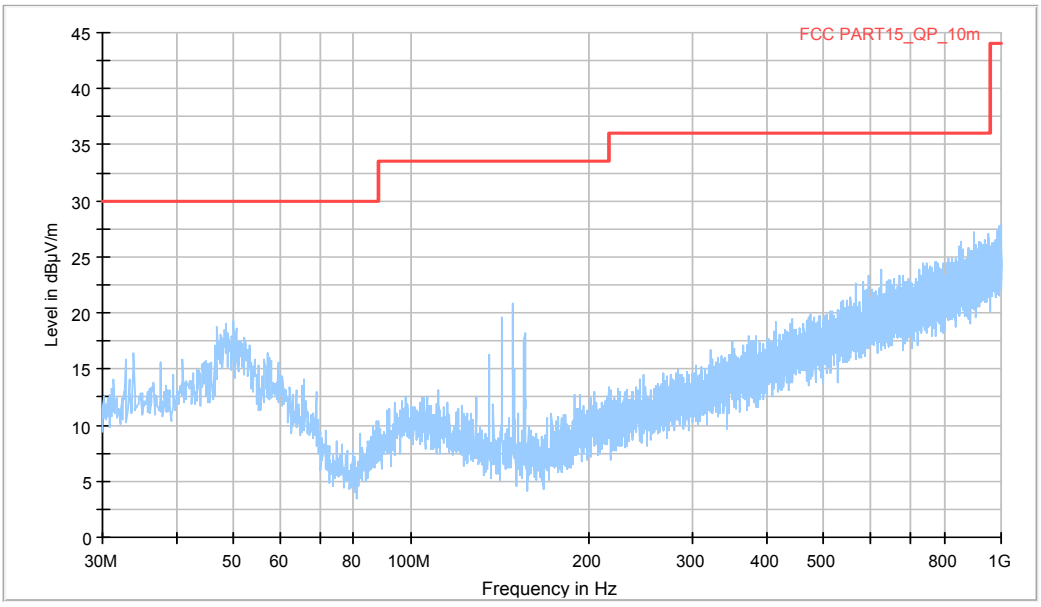



Fig.61. Radiated emission: GFSK, Channel 39, 30 MHz - 1 GHz

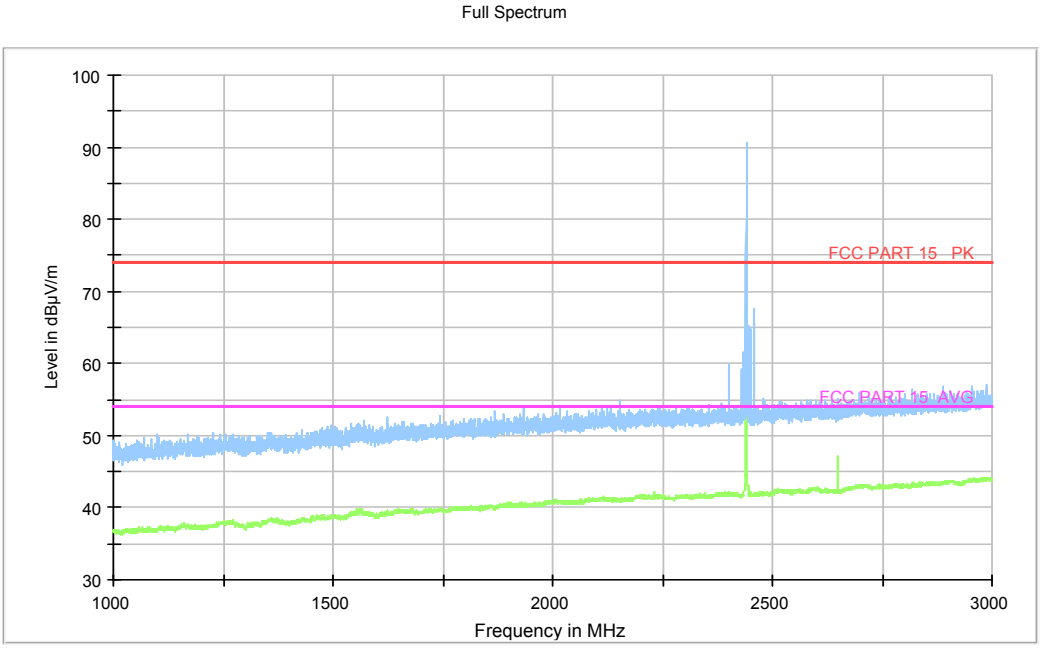



Fig.62. Radiated emission: GFSK, Channel 39, 1 GHz - 3 GHz

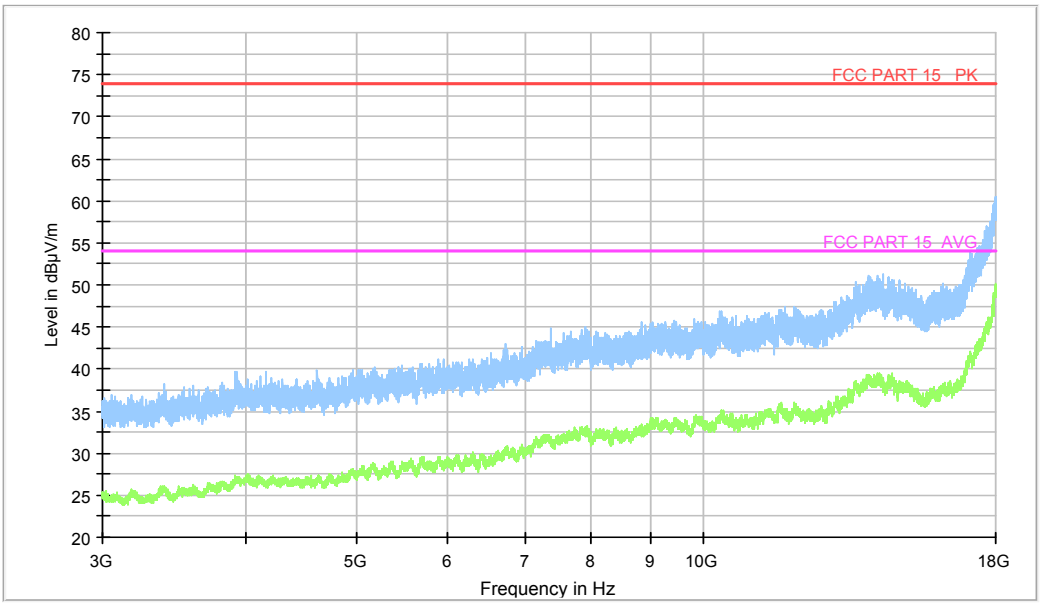



Fig.63. Radiated emission: GFSK, Channel 39, 3 GHz - 18 GHz

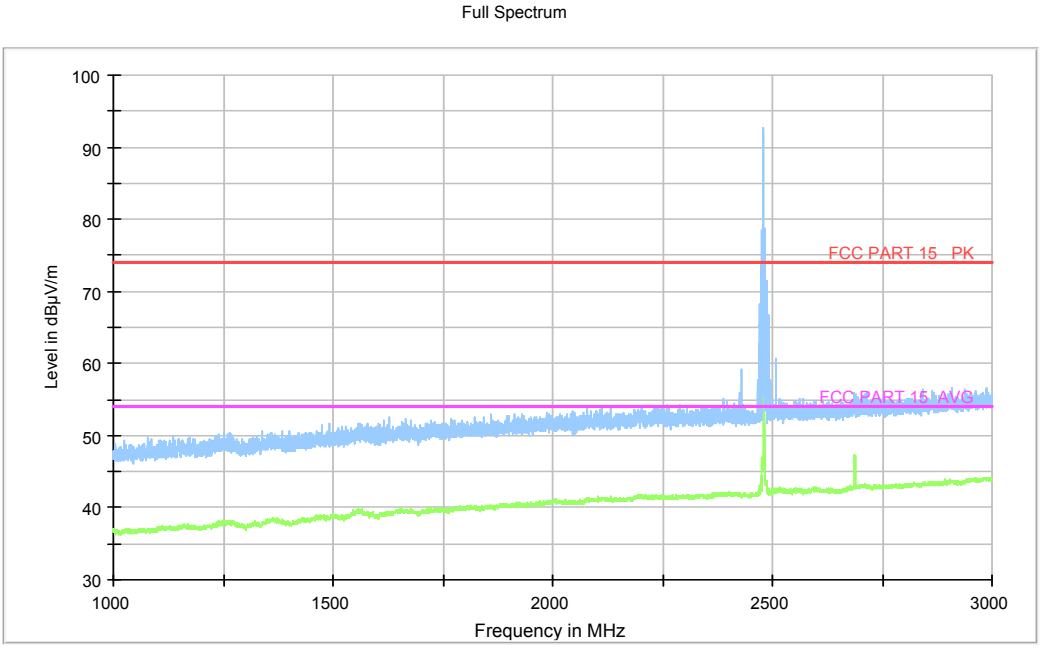



Fig.64. Radiated emission: GFSK, Channel 78, 1 GHz - 3 GHz

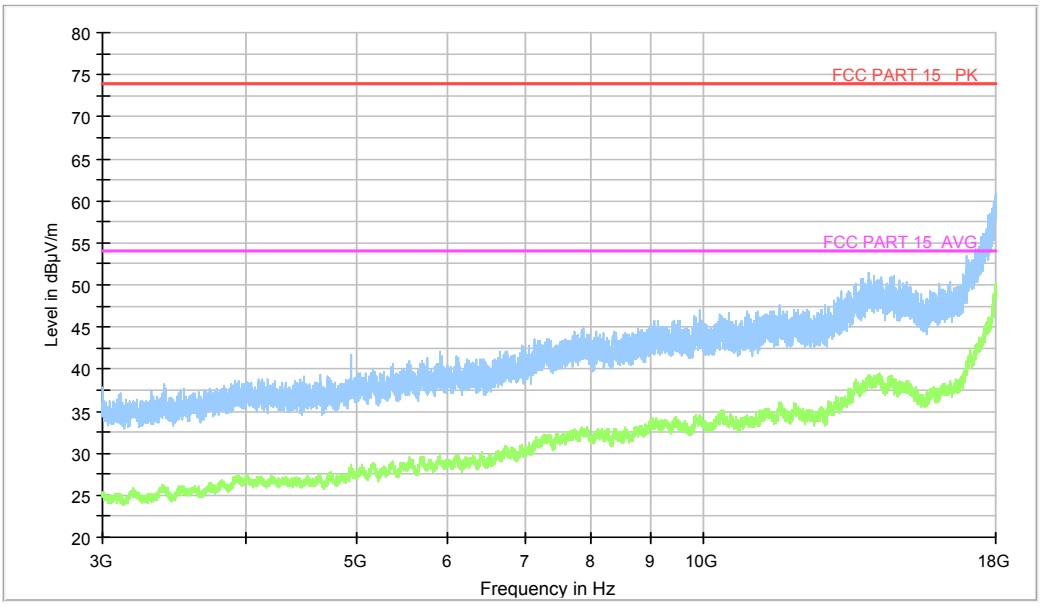



Fig.65. Radiated emission: GFSK, Channel 78, 3 GHz - 18 GHz

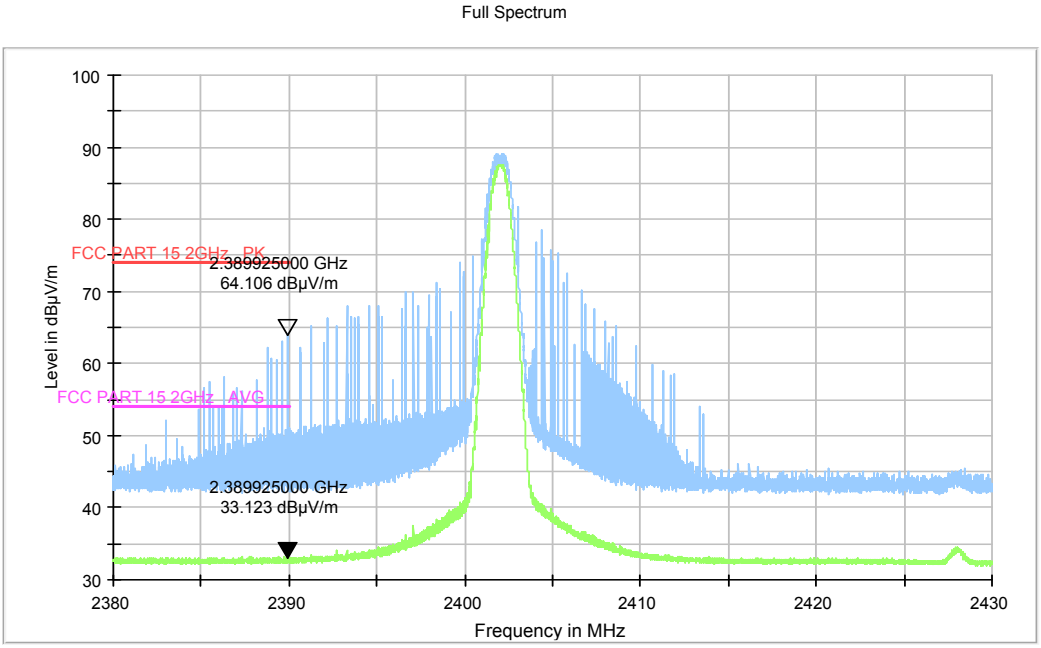



Fig.66. Radiated emission (Power): GFSK, low channel

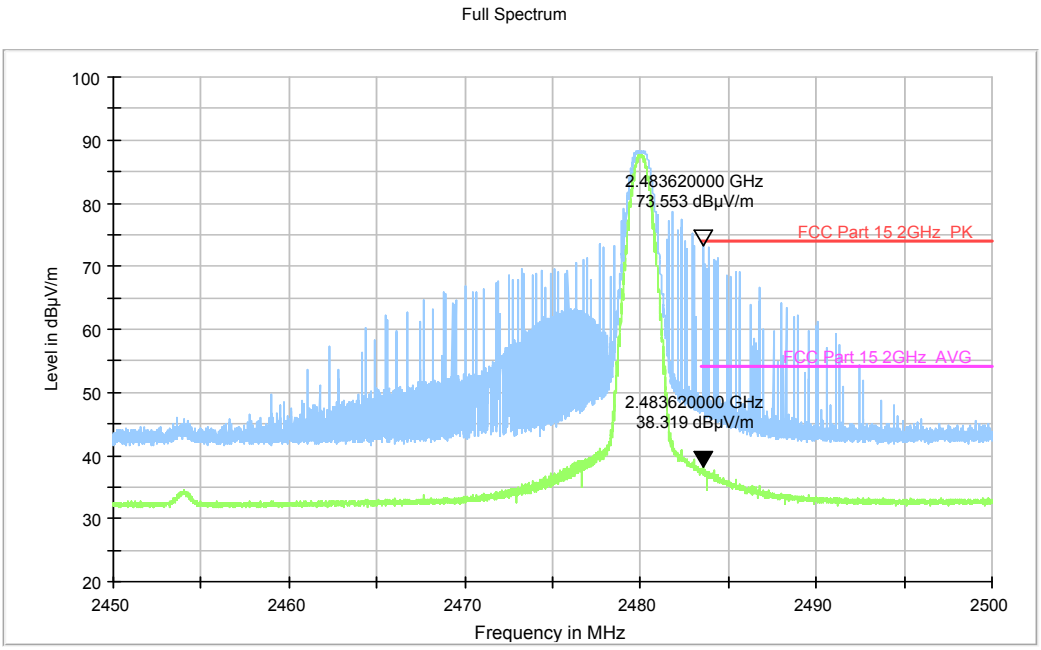



Fig.67. Radiated emission (Power) GFSK, high channel

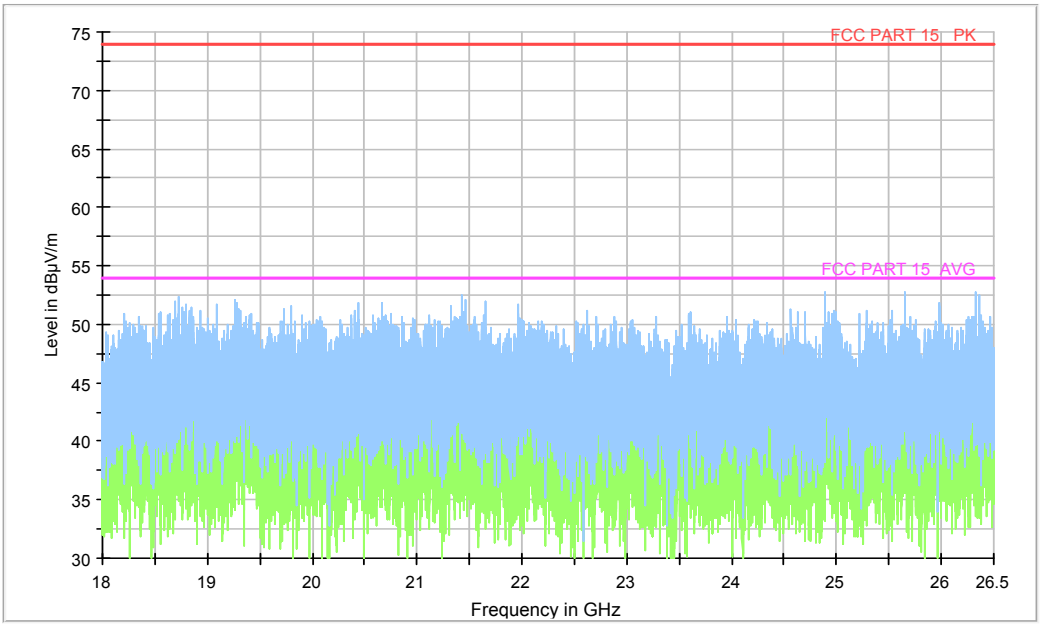



Fig.68. Radiated emission: GFSK, 18 GHz - 26 GHz

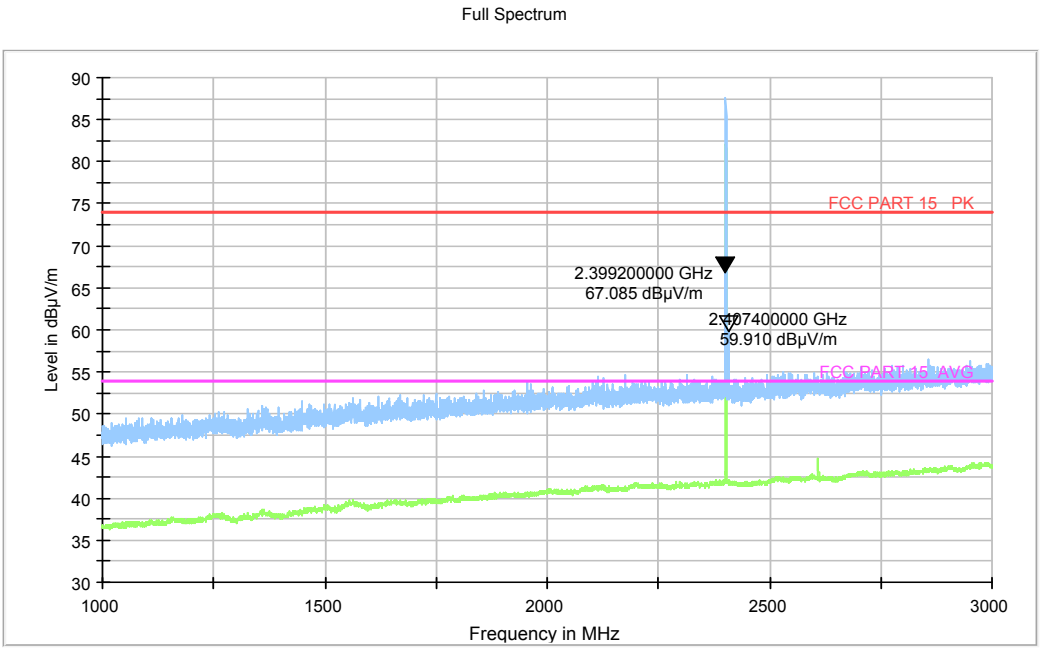



Fig.69. Radiated emission: π/4 DQPSK, Channel 0, 1 GHz - 3 GHz

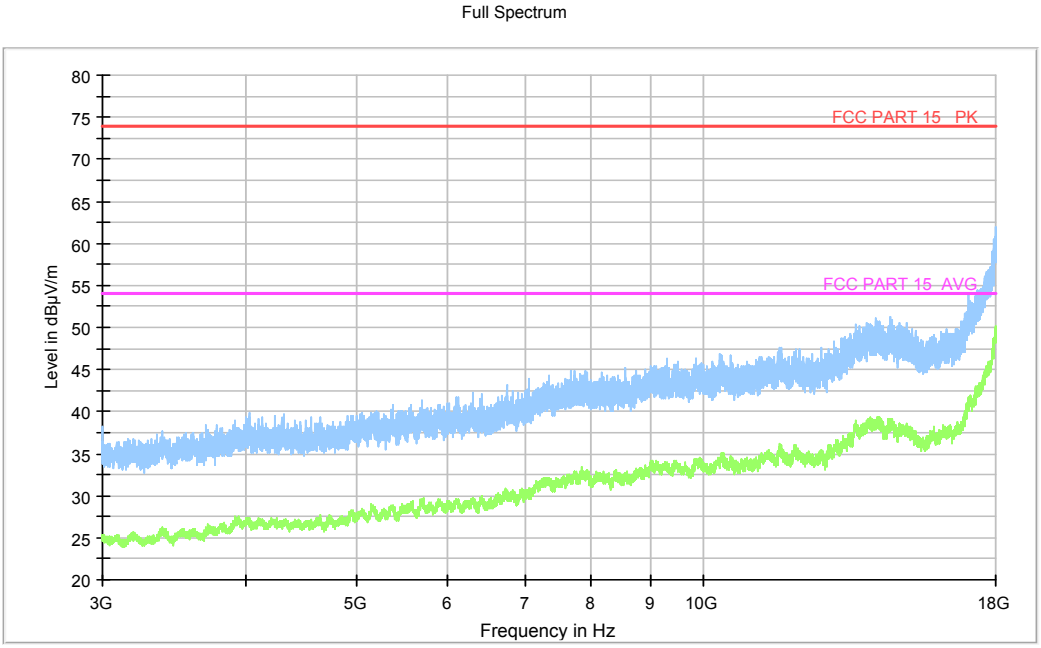



Fig.70. Radiated emission: π/4 DQPSK, Channel 0, 3 GHz - 18 GHz

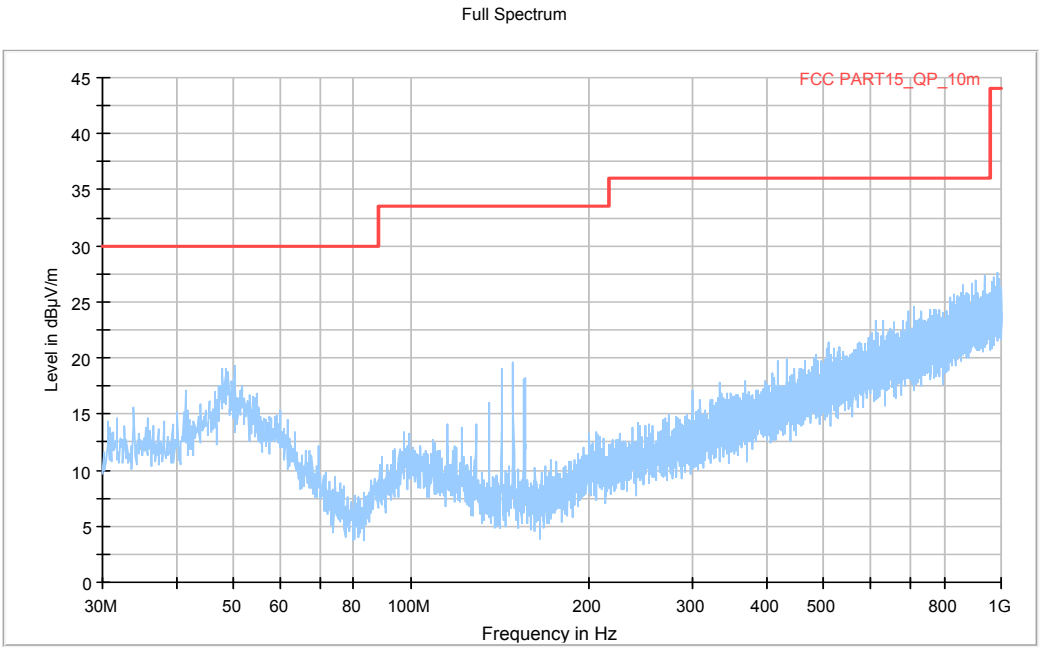



Fig.71. Radiated emission: π/4 DQPSK, Channel 39, 30 MHz - 1 GHz

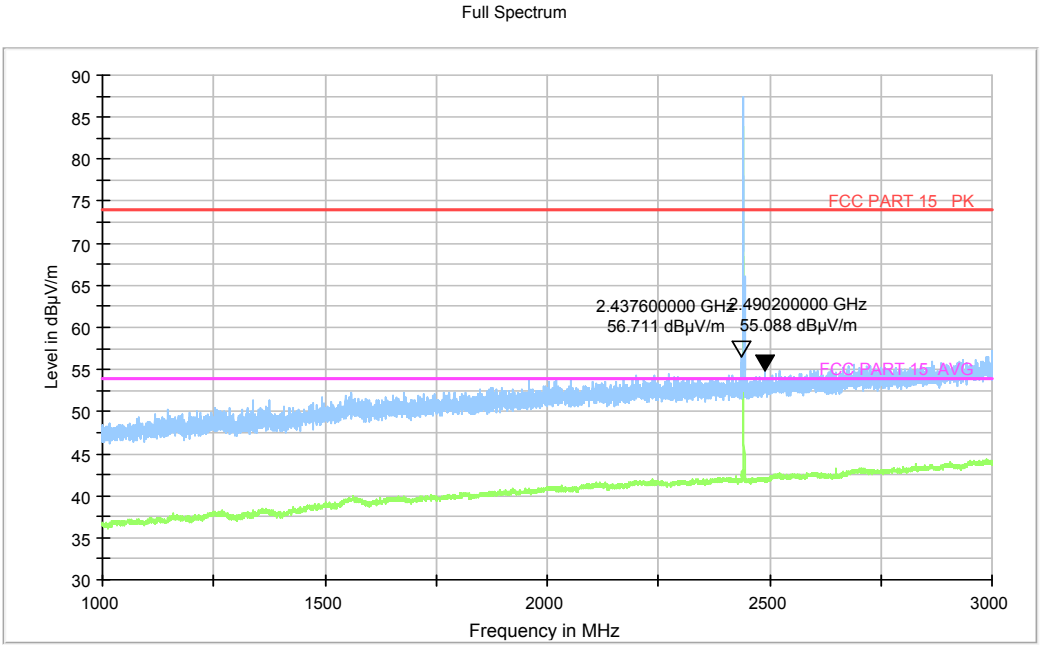



Fig.72. Radiated emission: π/4 DQPSK, Channel 39, 1 GHz - 3 GHz

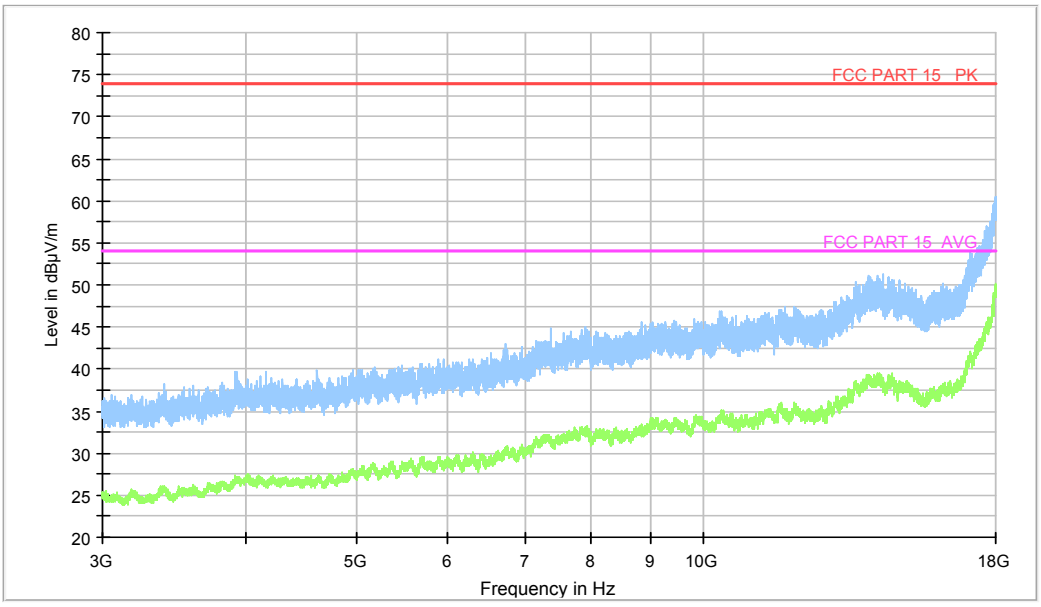



Fig.73. Radiated emission: π/4 DQPSK, Channel 39, 3 GHz - 18 GHz

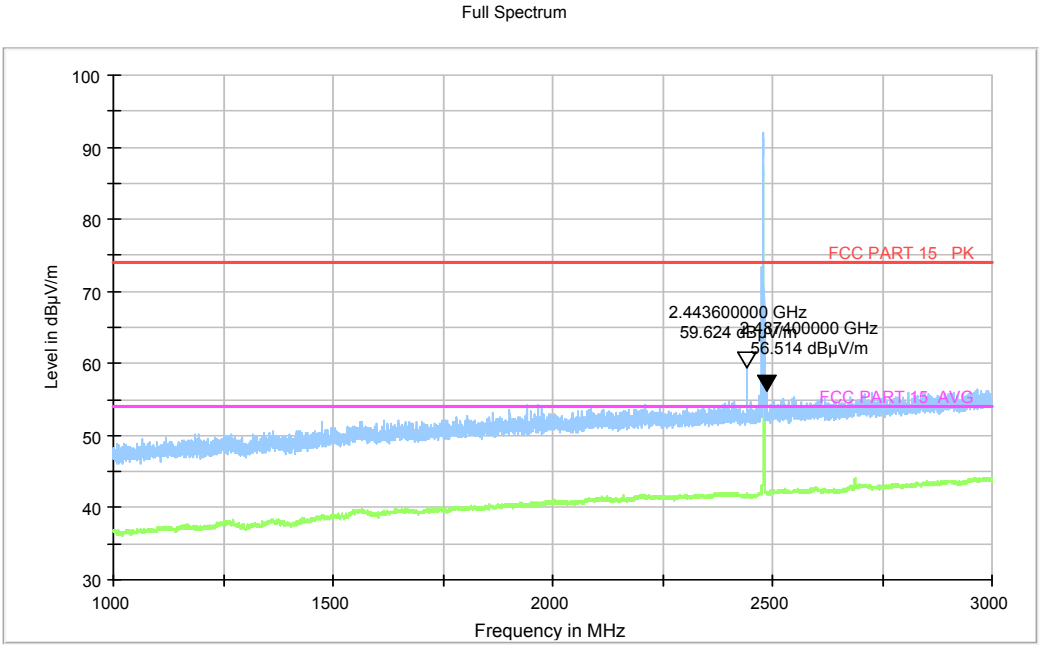



Fig.74. Radiated emission: π/4 DQPSK, Channel 78, 1 GHz - 3 GHz

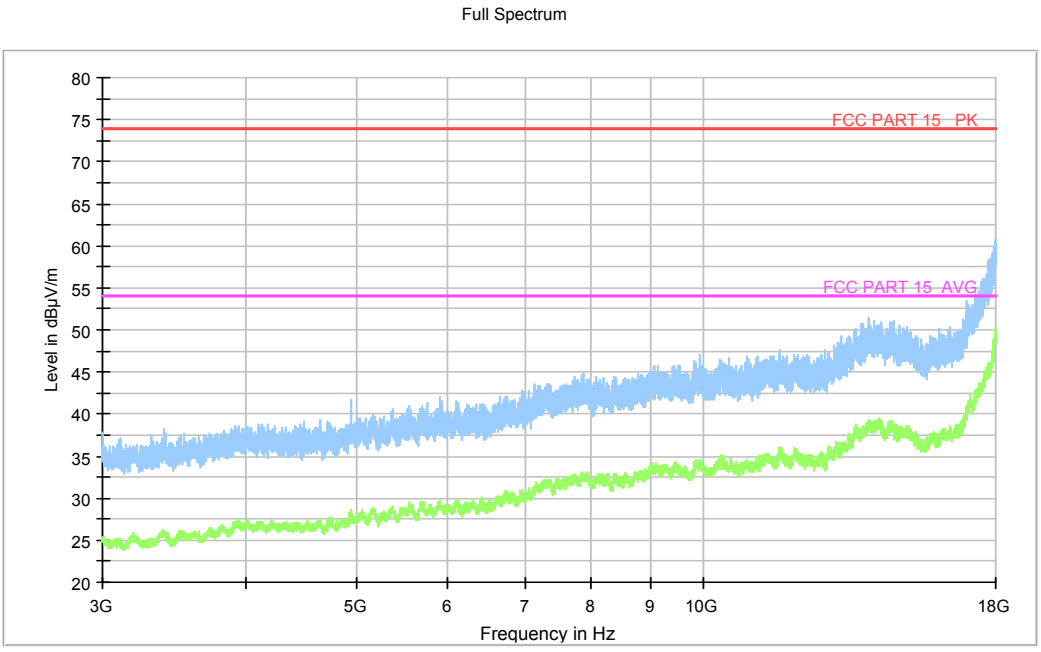



Fig.75. Radiated emission: π/4 DQPSK, Channel 78, 3 GHz - 18 GHz

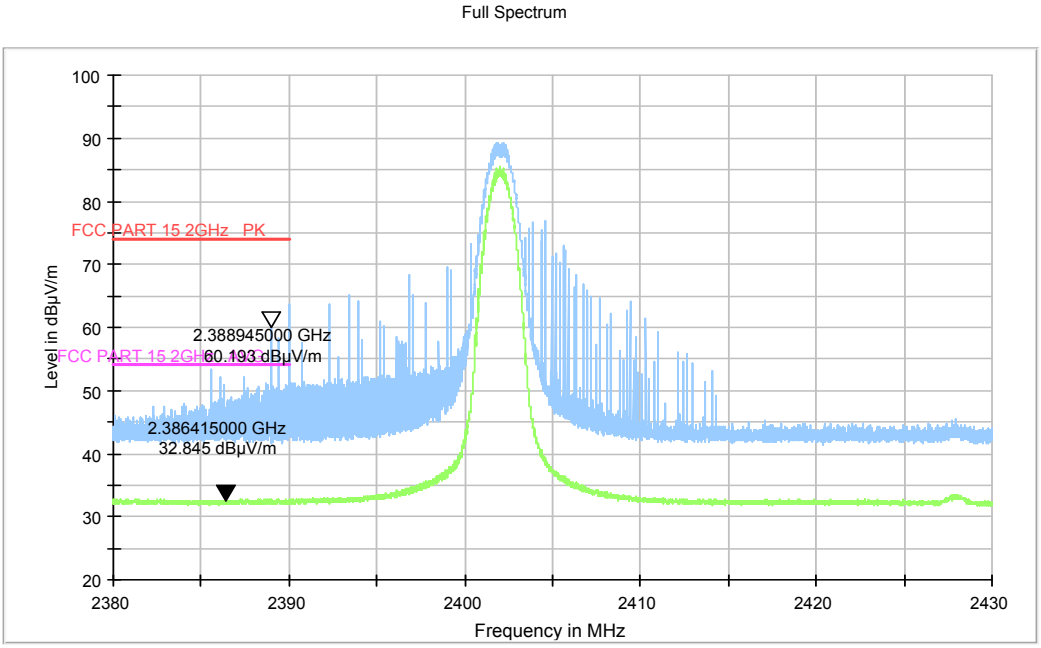



Fig.76. Radiated emission (Power): π/4 DQPSK, low channel

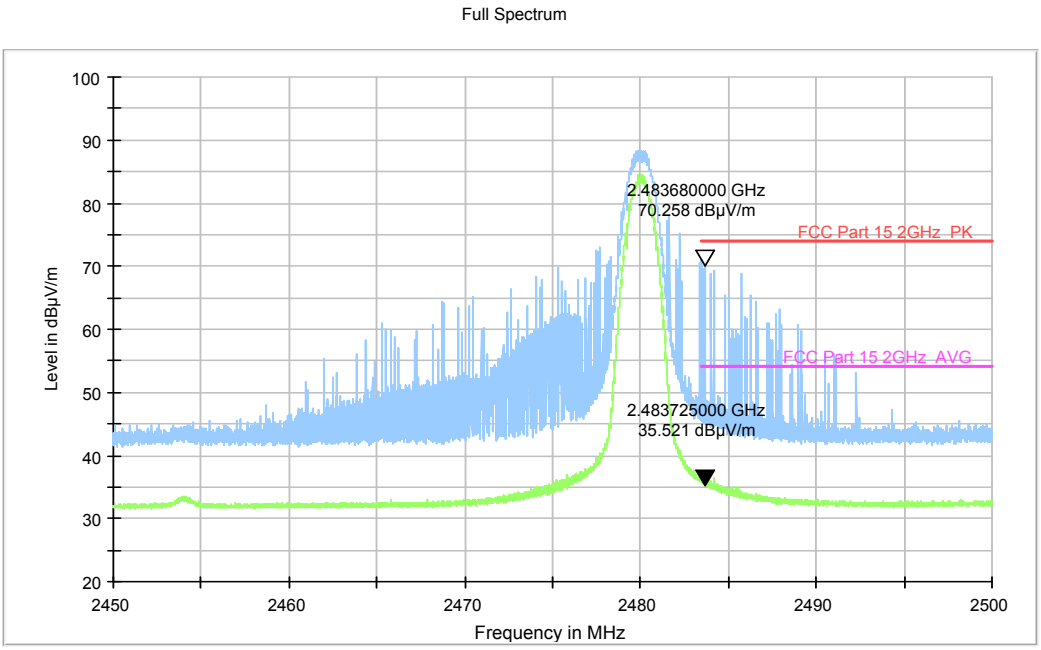



Fig.77. Radiated emission (Power): π/4 DQPSK, high channel

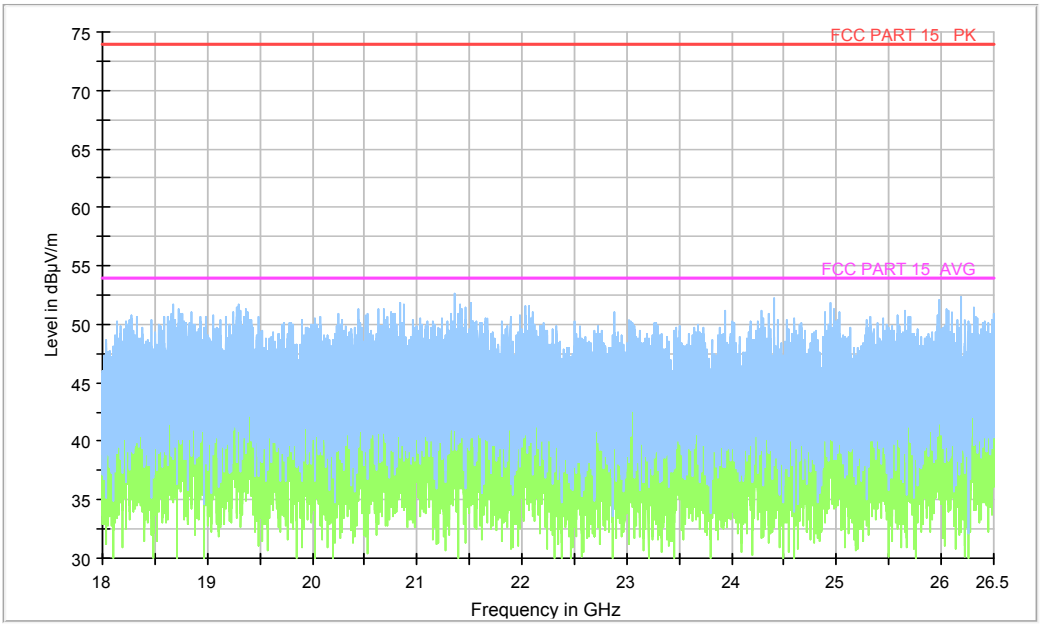



Fig.78. Radiated emission: π/4 DQPSK, 18 GHz - 26 GHz

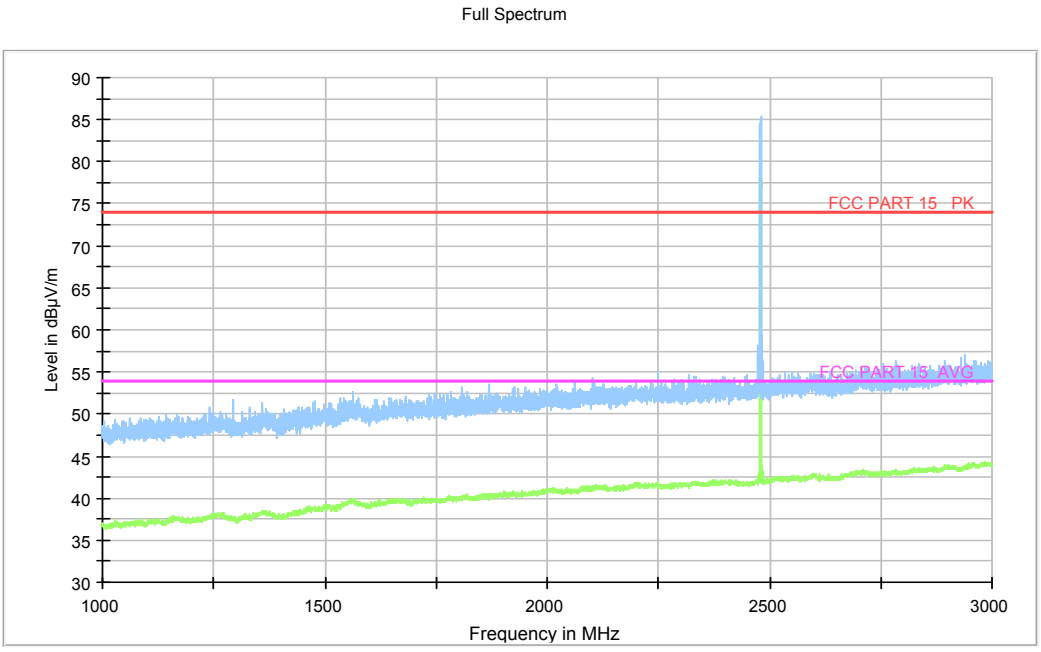



Fig.79. Radiated emission: 8DPSK, Channel 0, 1 GHz - 3 GHz

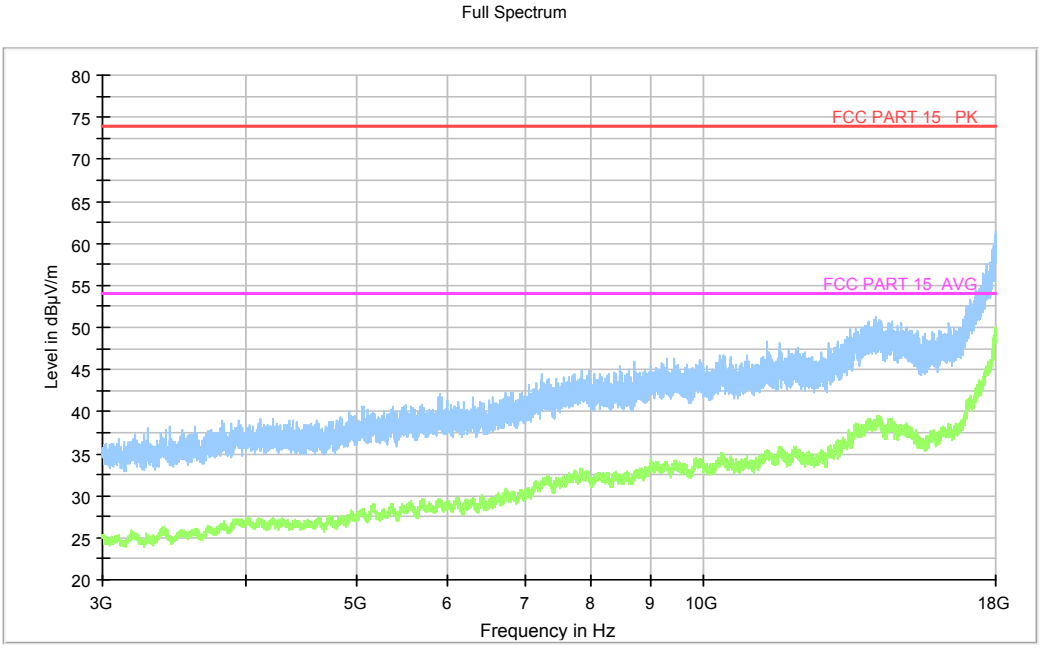



Fig.80. Radiated emission: 8DPSK, Channel 0, 3 GHz - 18 GHz

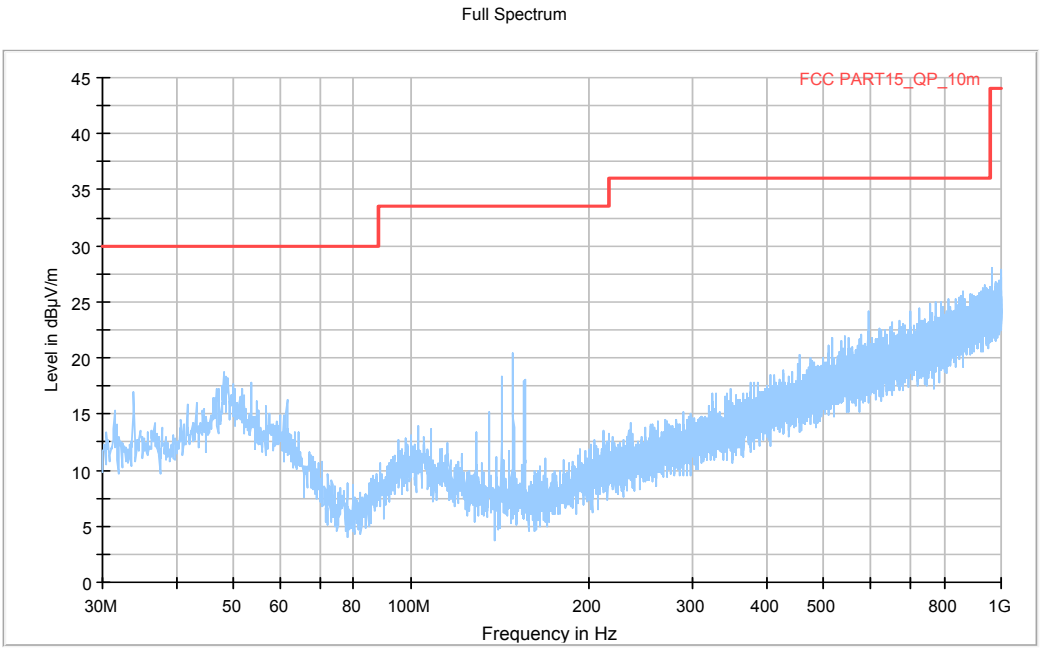



Fig.81. Radiated emission: 8DPSK, Channel 39, 30 MHz - 1 GHz

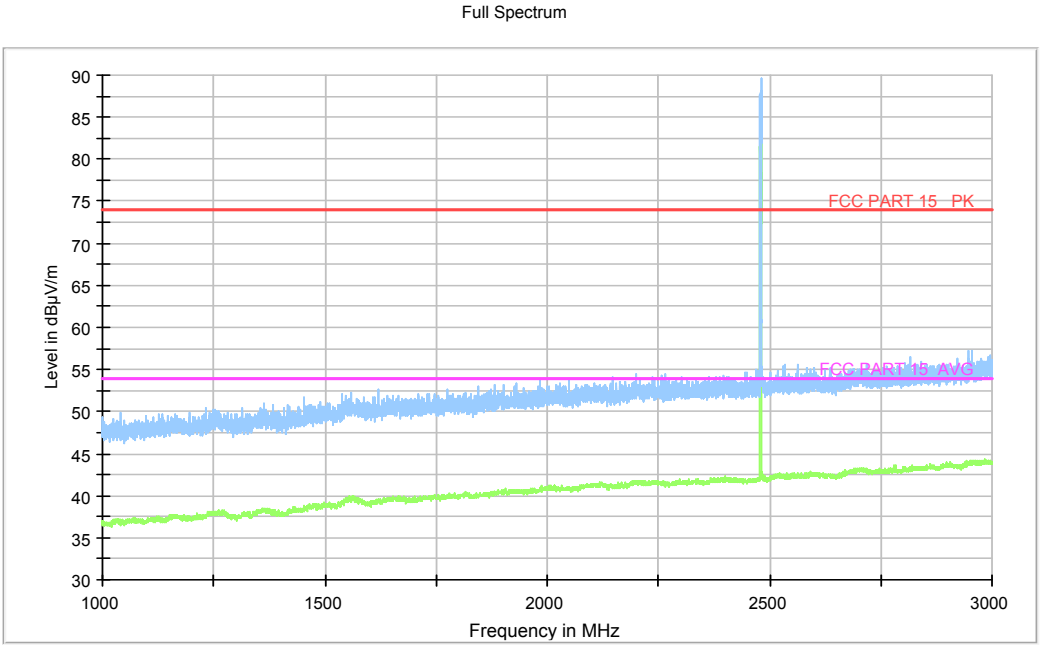



Fig.82. Radiated emission: 8DPSK, Channel 39, 1 GHz - 3 GHz

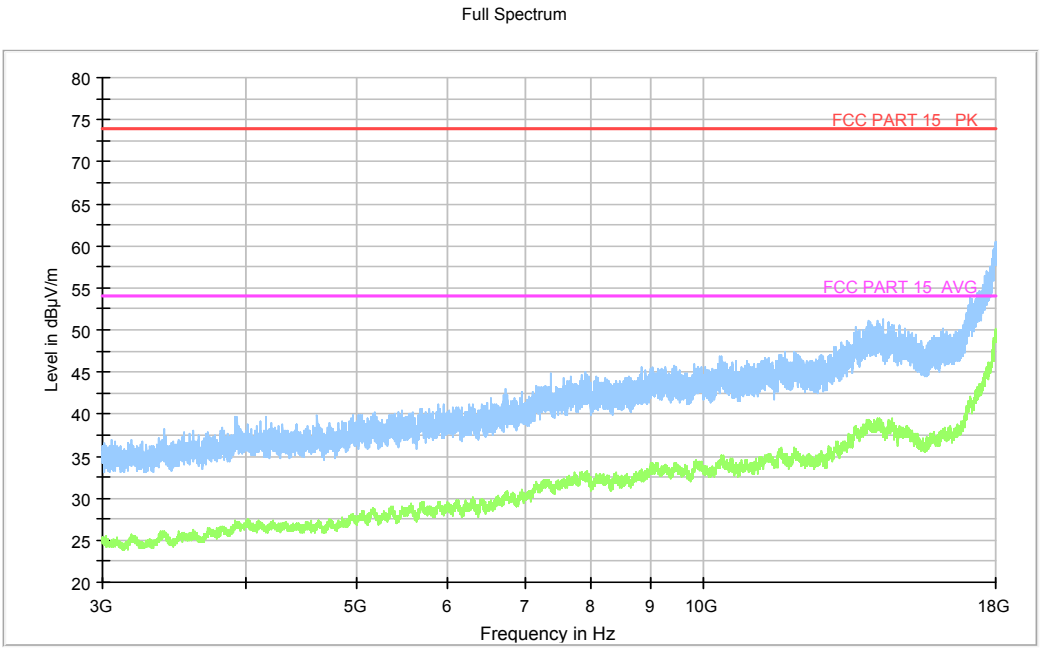



Fig.83. Radiated emission: 8DPSK, Channel 39, 3 GHz - 18 GHz

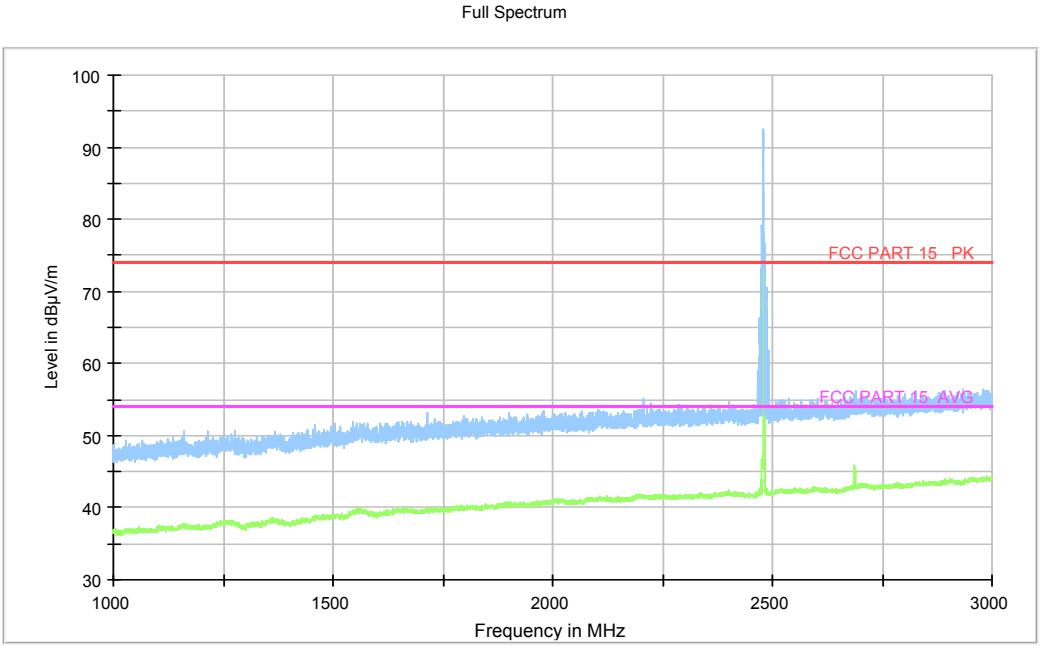



Fig.84. Radiated emission: 8DPSK, Channel 78, 1 GHz - 3 GHz

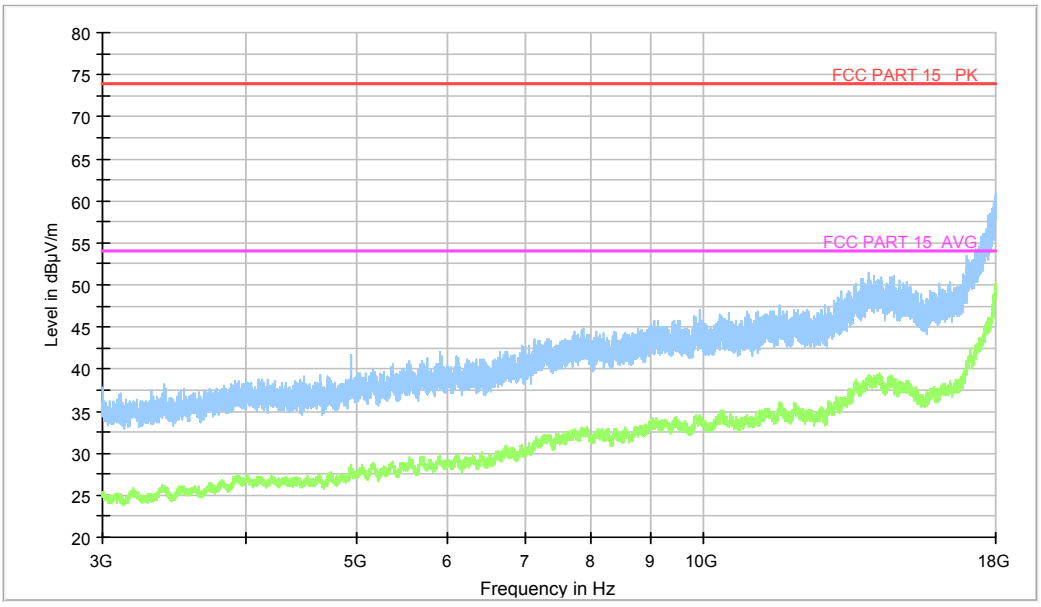



Fig.85. Radiated emission: 8DPSK, Channel 78, 3 GHz - 18 GHz

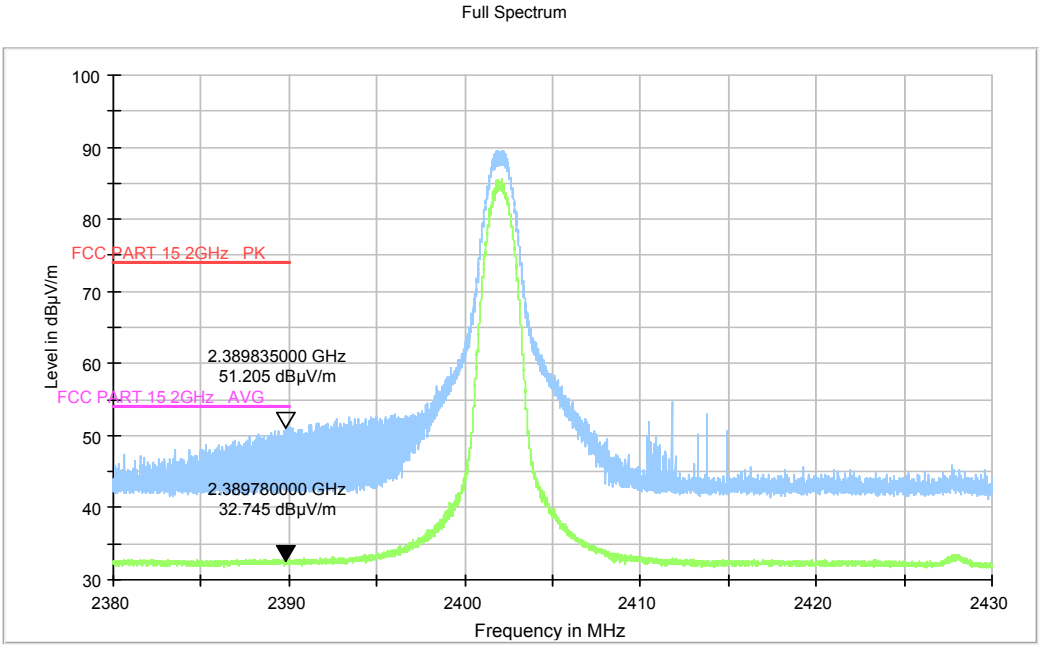



Fig.86. Radiated emission (Power): 8DPSK, low channel

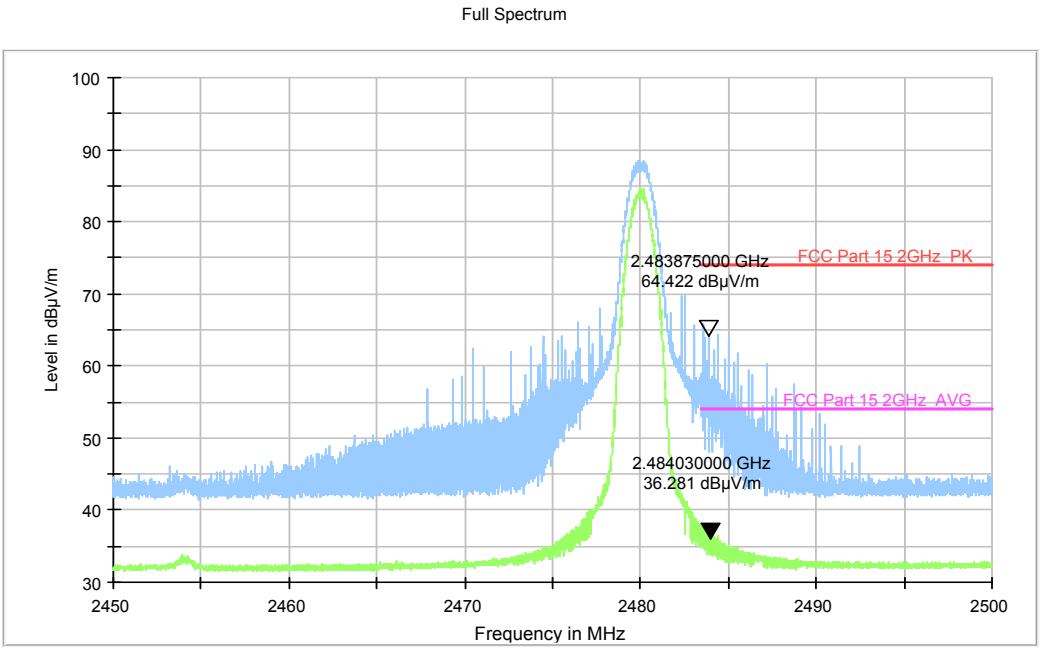



Fig.87. Radiated emission (Power): 8DPSK, high channel

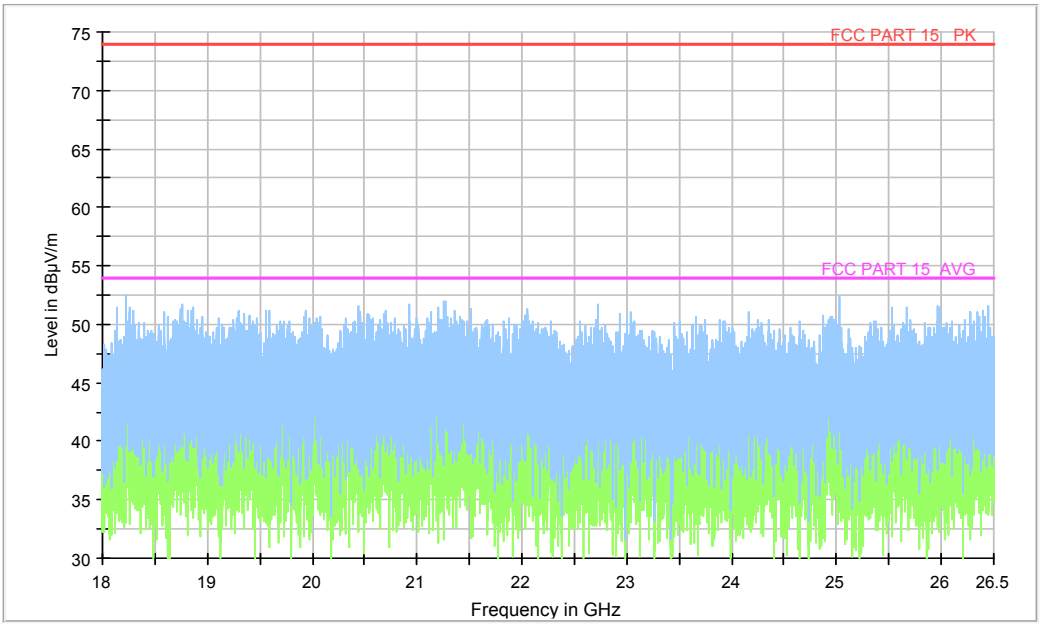



Fig.88. Radiated emission: 8DPSK, 18 GHz - 26 GHz

## A.6. Time of Occupancy (Dwell Time)

**Method of Measurement: See ANSI C63.10-clause 7.8.4**

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = zero span, centered on a hopping channel
- RBW = 1 MHz
- VBW ≥ RBW
- Sweep = as necessary to capture the entire dwell time per hopping channel
- Detector function = peak
- Trace = max hold

Measure a pulse time in time domain at middle frequency and then count the hopping number in 31.6s(which equals with 0.4 multiply 79) of middle frequency ,then multiply the pulse time and hopping number and record them.

**Measurement Limit:**

| Standard | Limit (ms) |
|---|---|
| FCC 47 CFR Part 15.247(a) (1)(iii) | < 400 |

**Measurement Result:**

**For GFSK**

| Channel | Packet | Dwell Time (ms) | | Conclusion |
|---|---|---|---|---|
| 39 | DH1 | Fig.89 | 129.34 | P |
| | DH3 | Fig.90 | 162.46 | P |
| | DH5 | Fig.91 | 215.10 | P |

**For π/4 DQPSK**

| Channel | Packet | Dwell Time (ms) | | Conclusion |
|---|---|---|---|---|
| 39 | DH1 | Fig.92 | 120.26 | P |
| | DH3 | Fig.93 | 198.97 | P |
| | DH5 | Fig.94 | 176.49 | P |

**For 8DPSK**

| Channel | Packet | Dwell Time (ms) | | Conclusion |
|---|---|---|---|---|
| 39 | DH1 | Fig.95 | 118.96 | P |

| | | | | |
|---|---|---|---|---|
| | DH3 | Fig.96 | 155.34 | P |
| | DH5 | Fig.97 | 195.42 | P |

**Conclusion: PASS**

**Test graphs as below:**

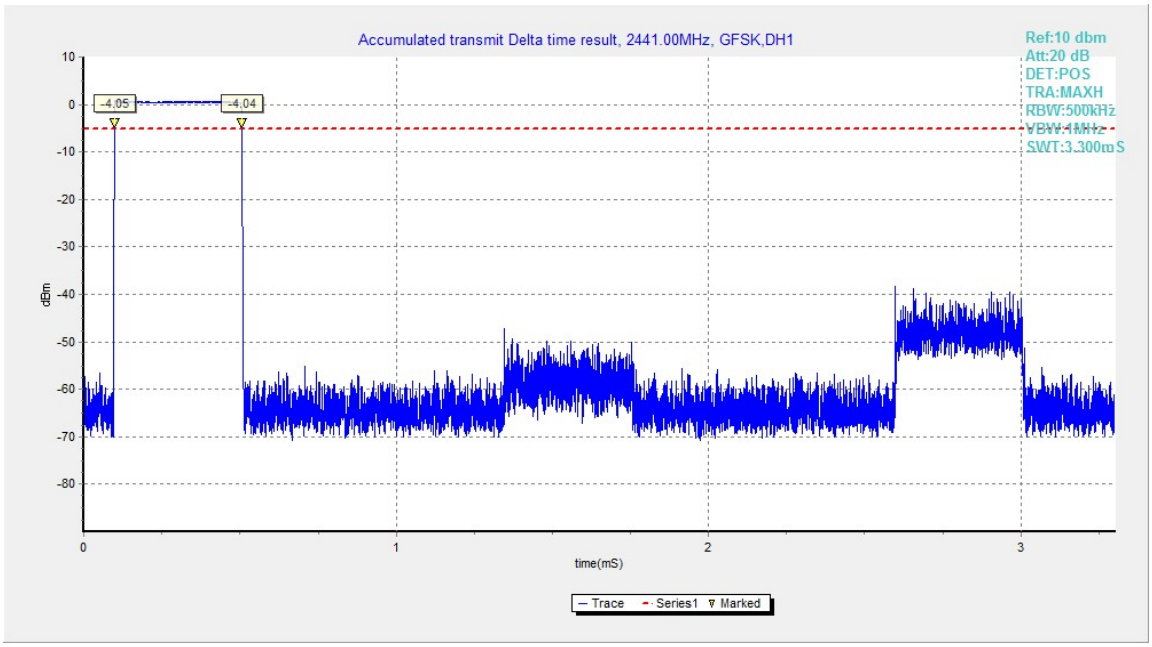
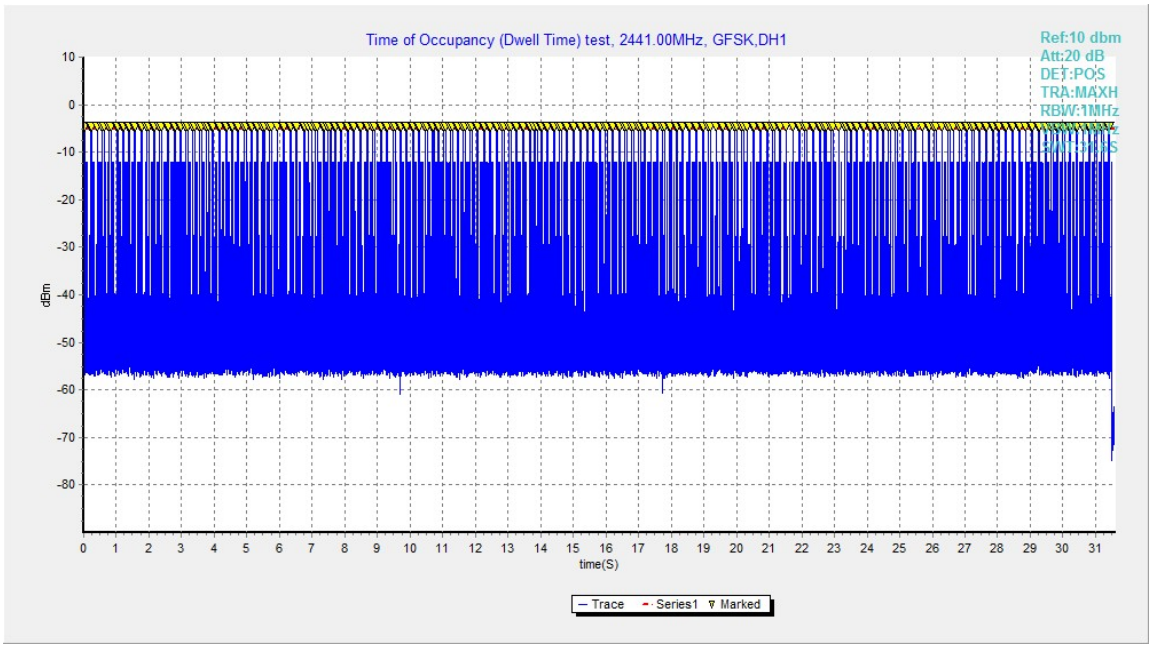



Fig.89. Time of occupancy (Dwell Time): Channel 39, Packet DH1



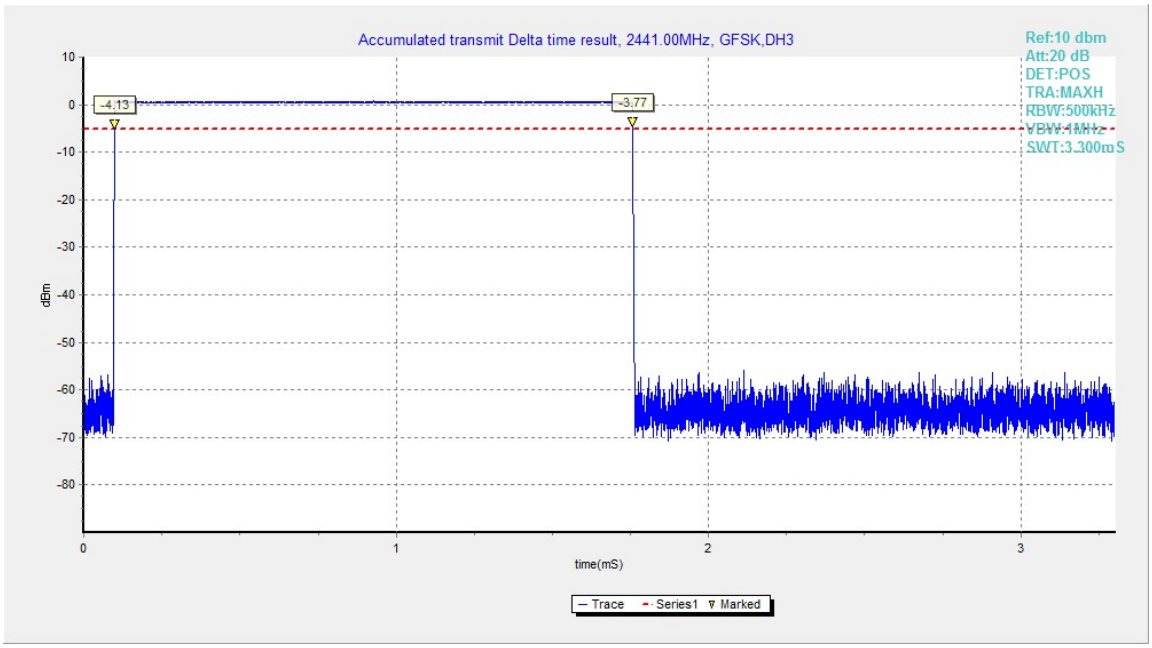
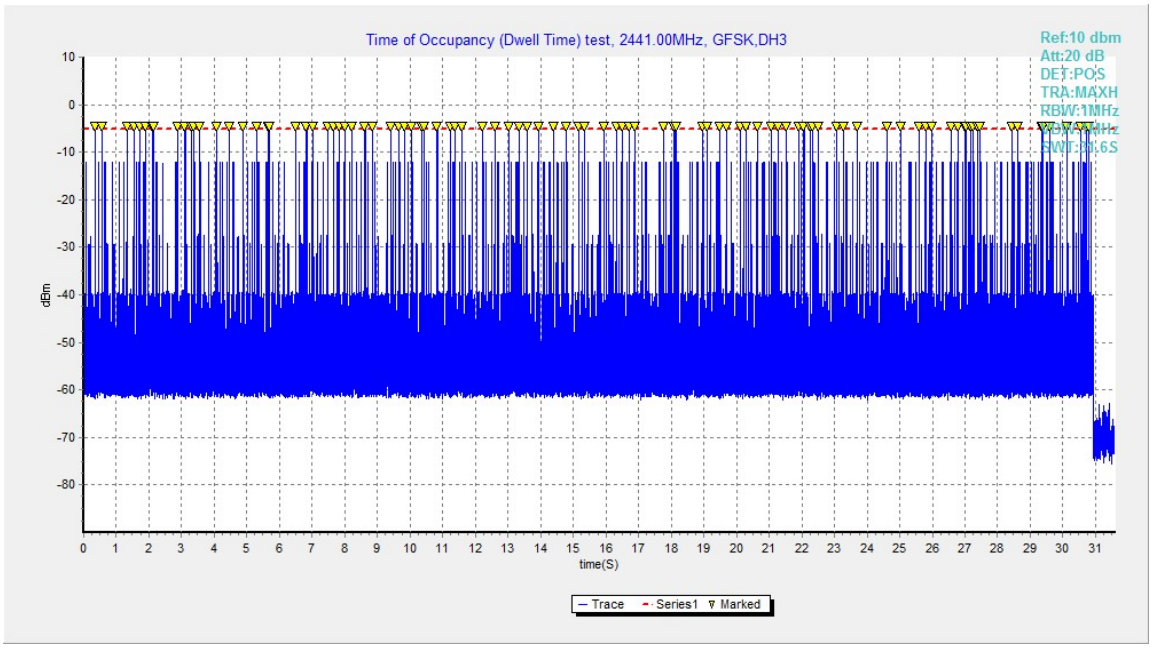



Fig.90. Time of occupancy (Dwell Time): Channel 39, Packet DH3



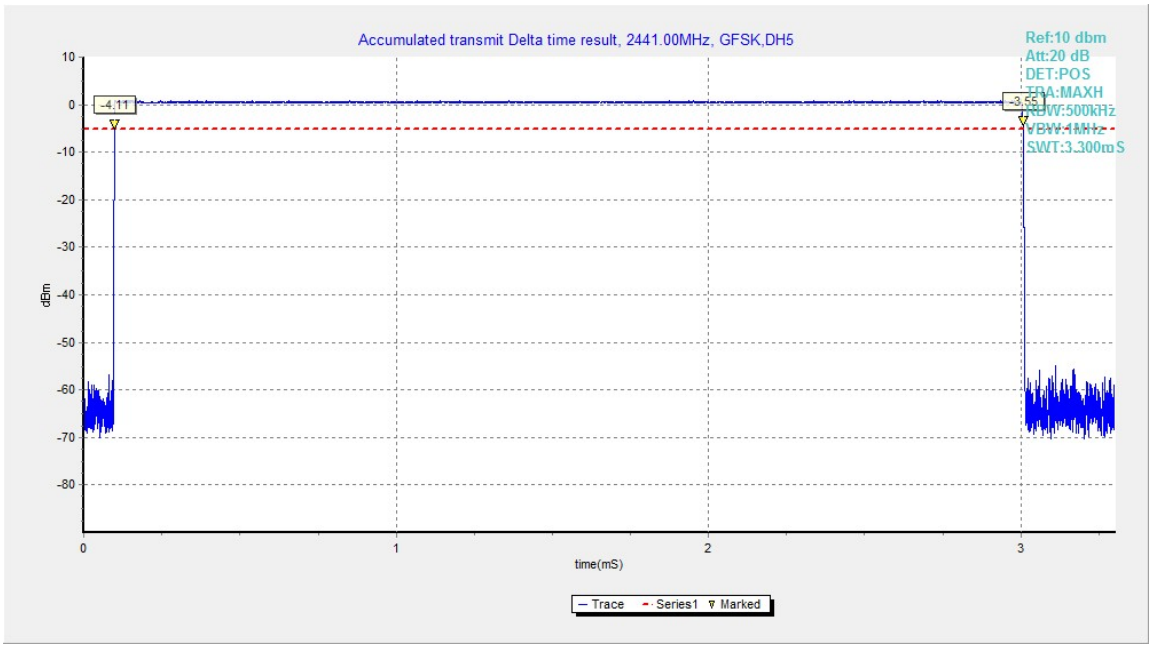



Fig.91. Time of occupancy (Dwell Time): Channel 39, Packet DH5