

**Measurement Results:**

| Mode | Direction             | Channel             | Frequency Range  | Test Results | Conclusion |
|------|-----------------------|---------------------|------------------|--------------|------------|
| GFSK | Horizontal            | 0                   | 1 GHz ~3 GHz     | Fig.42       | <b>P</b>   |
|      |                       |                     | 3 GHz ~18 GHz    | Fig.43       | <b>P</b>   |
|      |                       | 39                  | 1 GHz ~3 GHz     | Fig.44       | <b>P</b>   |
|      |                       |                     | 3 GHz ~18 GHz    | Fig.45       | <b>P</b>   |
|      |                       | 78                  | 1 GHz ~3GHz      | Fig.46       | <b>P</b>   |
|      |                       |                     | 3 GHz ~18 GHz    | Fig.47       | <b>P</b>   |
|      | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.48           | <b>P</b>     |            |
|      | Restricted Band(CH78) | 2.45 GHz ~ 2.5 GHz  | Fig.49           | <b>P</b>     |            |
|      | Vertical              | 0                   | 1 GHz ~3 GHz     | Fig.50       | <b>P</b>   |
|      |                       |                     | 3 GHz ~18 GHz    | Fig.51       | <b>P</b>   |
|      |                       | 39                  | 1 GHz ~3 GHz     | Fig.52       | <b>P</b>   |
|      |                       |                     | 3 GHz ~18 GHz    | Fig.53       | <b>P</b>   |
|      |                       | 78                  | 1 GHz ~3GHz      | Fig.54       | <b>P</b>   |
|      |                       |                     | 3 GHz ~18 GHz    | Fig.55       | <b>P</b>   |
|      | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.56           | <b>P</b>     |            |
|      | Restricted Band(CH78) | 2.45 GHz ~ 2.5 GHz  | Fig.57           | <b>P</b>     |            |
|      | /                     | All channels        | 9 kHz ~30 MHz    | Fig.58       | <b>P</b>   |
|      |                       |                     | 30 MHz ~1 GHz    | Fig.59       | <b>P</b>   |
|      |                       |                     | 18 GHz ~26.5 GHz | Fig.60       | <b>P</b>   |

| Mode                 | Direction             | Channel             | Frequency Range  | Test Results | Conclusion |
|----------------------|-----------------------|---------------------|------------------|--------------|------------|
| $\pi/4$<br>DQPS<br>K | Horizontal            | 0                   | 1 GHz ~3 GHz     | Fig.61       | <b>P</b>   |
|                      |                       |                     | 3 GHz ~18 GHz    | Fig.62       | <b>P</b>   |
|                      |                       | 39                  | 1 GHz ~3 GHz     | Fig.63       | <b>P</b>   |
|                      |                       |                     | 3 GHz ~18 GHz    | Fig.64       | <b>P</b>   |
|                      |                       | 78                  | 1 GHz ~3GHz      | Fig.65       | <b>P</b>   |
|                      |                       |                     | 3 GHz ~18 GHz    | Fig.66       | <b>P</b>   |
|                      | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.67           | <b>P</b>     |            |
|                      | Restricted Band(CH78) | 2.45 GHz ~ 2.5 GHz  | Fig.68           | <b>P</b>     |            |
|                      | Vertical              | 0                   | 1 GHz ~3 GHz     | Fig.69       | <b>P</b>   |
|                      |                       |                     | 3 GHz ~18 GHz    | Fig.70       | <b>P</b>   |
|                      |                       | 39                  | 1 GHz ~3 GHz     | Fig.71       | <b>P</b>   |
|                      |                       |                     | 3 GHz ~18 GHz    | Fig.72       | <b>P</b>   |
|                      |                       | 78                  | 1 GHz ~3GHz      | Fig.73       | <b>P</b>   |
|                      |                       |                     | 3 GHz ~18 GHz    | Fig.74       | <b>P</b>   |
|                      | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.75           | <b>P</b>     |            |
|                      | Restricted Band(CH78) | 2.45 GHz ~ 2.5 GHz  | Fig.76           | <b>P</b>     |            |
|                      | /                     | All channels        | 9 kHz ~30 MHz    | Fig.77       | <b>P</b>   |
|                      |                       |                     | 30 MHz ~1 GHz    | Fig.78       | <b>P</b>   |
|                      |                       |                     | 18 GHz ~26.5 GHz | Fig.79       | <b>P</b>   |

| Mode      | Direction  | Channel               | Frequency Range     | Test Results | Conclusion |
|-----------|------------|-----------------------|---------------------|--------------|------------|
| 8DPS<br>K | Horizontal | 0                     | 1 GHz ~3 GHz        | Fig.80       | <b>P</b>   |
|           |            |                       | 3 GHz ~18 GHz       | Fig.81       | <b>P</b>   |
|           |            | 39                    | 1 GHz ~3 GHz        | Fig.82       | <b>P</b>   |
|           |            |                       | 3 GHz ~18 GHz       | Fig.83       | <b>P</b>   |
|           |            | 78                    | 1 GHz ~3GHz         | Fig.84       | <b>P</b>   |
|           |            |                       | 3 GHz ~18 GHz       | Fig.85       | <b>P</b>   |
|           |            | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.86       | <b>P</b>   |
|           |            | Restricted Band(CH78) | 2.45 GHz ~ 2.5 GHz  | Fig.87       | <b>P</b>   |
|           | Vertical   | 0                     | 1 GHz ~3 GHz        | Fig.88       | <b>P</b>   |
|           |            |                       | 3 GHz ~18 GHz       | Fig.89       | <b>P</b>   |
|           |            | 39                    | 1 GHz ~3 GHz        | Fig.90       | <b>P</b>   |
|           |            |                       | 3 GHz ~18 GHz       | Fig.91       | <b>P</b>   |
|           |            | 78                    | 1 GHz ~3GHz         | Fig.92       | <b>P</b>   |
|           |            |                       | 3 GHz ~18 GHz       | Fig.93       | <b>P</b>   |
|           |            | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.94       | <b>P</b>   |
|           |            | Restricted Band(CH78) | 2.45 GHz ~ 2.5 GHz  | Fig.95       | <b>P</b>   |
|           | /          | All channels          | 9 kHz ~30 MHz       | Fig.96       | <b>P</b>   |
|           |            |                       | 30 MHz ~1 GHz       | Fig.97       | <b>P</b>   |
|           |            |                       | 18 GHz ~26.5 GHz    | Fig.98       | <b>P</b>   |

**Worst Case Result**

**Horizontal Direction:**

**GFSK CH0 (1-18GHz)**

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----|------------|
| 4881.500000     | ---              | 34.64            | 54.00          | 19.36       | V   | 0.2        |
| 5759.500000     | ---              | 34.76            | 54.00          | 19.24       | V   | 1.7        |
| 5760.000000     | 46.62            | ---              | 74.00          | 27.38       | V   | 1.7        |
| 8997.000000     | 46.54            | ---              | 74.00          | 27.46       | V   | 5.1        |
| 10813.500000    | ---              | 32.14            | 54.00          | 21.86       | H   | 7.3        |
| 14518.500000    | 48.08            | ---              | 74.00          | 25.92       | H   | 12.7       |
| 15213.500000    | ---              | 35.41            | 54.00          | 18.59       | V   | 13.4       |
| 15970.000000    | ---              | 36.89            | 54.00          | 17.11       | V   | 15.2       |
| 16552.500000    | 50.40            | ---              | 74.00          | 23.60       | H   | 16.0       |
| 17007.500000    | ---              | 37.57            | 54.00          | 16.43       | V   | 16.5       |
| 17132.000000    | 50.43            | ---              | 74.00          | 23.57       | V   | 16.3       |
| 17539.500000    | 50.74            | ---              | 74.00          | 23.26       | V   | 0.2        |

**Vertical Direction:**

**GFSK CH0 (1-18GHz)**

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----|------------|
| 4803.500000     | ---              | 33.80            | 54.00          | 20.20       | V   | 0.2        |
| 5760.000000     | ---              | 29.78            | 54.00          | 24.22       | V   | 1.7        |
| 5991.000000     | 42.03            | ---              | 74.00          | 31.97       | V   | 1.9        |
| 8264.500000     | 43.00            | ---              | 74.00          | 31.00       | H   | 4.6        |
| 8724.500000     | ---              | 30.99            | 54.00          | 23.01       | H   | 5.3        |
| 9459.500000     | 43.12            | ---              | 74.00          | 30.88       | V   | 5.2        |
| 12333.000000    | 46.33            | ---              | 74.00          | 27.67       | H   | 9.3        |
| 14423.000000    | ---              | 35.51            | 54.00          | 18.49       | V   | 12.8       |
| 15915.000000    | 49.06            | ---              | 74.00          | 24.94       | V   | 14.9       |
| 16710.500000    | ---              | 37.87            | 54.00          | 16.13       | H   | 16.4       |
| 17900.500000    | 52.44            | ---              | 74.00          | 21.56       | H   | 17.6       |
| 17929.000000    | ---              | 38.69            | 54.00          | 15.31       | H   | 17.6       |

**Horizontal Direction:**

$\pi/4$  DQPSK CH0 (1-18GHz)

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----|------------|
| 6435.000000     | ---              | 29.77            | 54.00          | 24.23       | V   | 2.6        |
| 6940.000000     | 41.85            | ---              | 74.00          | 32.16       | V   | 2.9        |
| 9752.000000     | ---              | 31.29            | 54.00          | 22.71       | H   | 6.0        |
| 9905.500000     | 44.44            | ---              | 74.00          | 29.56       | V   | 6.6        |
| 12120.500000    | ---              | 33.82            | 54.00          | 20.18       | V   | 9.5        |
| 12124.500000    | 46.72            | ---              | 74.00          | 27.28       | V   | 9.5        |
| 14431.000000    | 47.82            | ---              | 74.00          | 26.18       | H   | 12.7       |
| 14449.000000    | ---              | 35.43            | 54.00          | 18.57       | V   | 12.6       |
| 16494.500000    | 50.01            | ---              | 74.00          | 23.99       | V   | 15.7       |
| 16703.000000    | ---              | 37.77            | 54.00          | 16.23       | H   | 16.3       |
| 17866.000000    | 51.17            | ---              | 74.00          | 22.83       | H   | 17.7       |
| 17938.500000    | ---              | 38.75            | 54.00          | 15.25       | V   | 17.6       |

**Vertical Direction:**

$\pi/4$  DQPSK CH0 (1-18GHz)

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----|------------|
| 5760.000000     | ---              | 30.61            | 54.00          | 23.39       | V   | 1.7        |
| 5776.500000     | 41.46            | ---              | 74.00          | 32.54       | V   | 1.6        |
| 9858.500000     | 44.65            | ---              | 74.00          | 29.35       | H   | 6.5        |
| 10193.000000    | ---              | 31.85            | 54.00          | 22.15       | V   | 6.7        |
| 12114.000000    | ---              | 33.86            | 54.00          | 20.14       | H   | 9.5        |
| 12610.000000    | 46.90            | ---              | 74.00          | 27.10       | H   | 10.1       |
| 14440.500000    | ---              | 35.29            | 54.00          | 18.71       | V   | 12.7       |
| 14534.000000    | 47.59            | ---              | 74.00          | 26.41       | V   | 12.5       |
| 16555.500000    | ---              | 37.42            | 54.00          | 16.58       | V   | 16.0       |
| 16698.000000    | 50.66            | ---              | 74.00          | 23.34       | V   | 16.3       |
| 17581.000000    | 50.50            | ---              | 74.00          | 23.50       | V   | 16.9       |
| 17944.000000    | ---              | 38.52            | 54.00          | 15.48       | H   | 17.5       |

**Horizontal Direction:**
**8DPSK CH0 (1-18GHz)**

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----|------------|
| 5760.000000     | 44.21            | ---              | 74.00          | 29.79       | V   | 1.7        |
| 5760.000000     | ---              | 33.36            | 54.00          | 20.64       | V   | 1.7        |
| 8995.000000     | 46.52            | ---              | 74.00          | 27.48       | V   | 5.1        |
| 8997.500000     | ---              | 32.13            | 54.00          | 21.87       | V   | 5.1        |
| 10991.500000    | 45.47            | ---              | 74.00          | 28.53       | H   | 7.4        |
| 12068.500000    | ---              | 33.70            | 54.00          | 20.30       | H   | 9.4        |
| 12596.000000    | 46.62            | ---              | 74.00          | 27.38       | H   | 10.0       |
| 14431.000000    | ---              | 35.41            | 54.00          | 18.59       | H   | 12.7       |
| 15109.000000    | 48.12            | ---              | 74.00          | 25.88       | V   | 13.3       |
| 16060.500000    | ---              | 36.47            | 54.00          | 17.53       | V   | 15.4       |
| 17118.000000    | ---              | 37.75            | 54.00          | 16.25       | V   | 16.3       |
| 17292.500000    | 50.69            | ---              | 74.00          | 23.31       | V   | 16.4       |

**Vertical Direction:**
**8DPSK CH0 (1-18GHz)**

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----|------------|
| 5760.000000     | ---              | 31.49            | 54.00          | 22.51       | H   | 1.6        |
| 6000.000000     | 42.08            | ---              | 74.00          | 31.92       | V   | 1.9        |
| 7258.000000     | ---              | 29.81            | 54.00          | 24.19       | H   | 3.0        |
| 8679.500000     | 43.14            | ---              | 74.00          | 30.86       | V   | 4.6        |
| 9786.500000     | ---              | 31.71            | 54.00          | 22.29       | V   | 6.2        |
| 10244.500000    | 44.73            | ---              | 74.00          | 29.27       | V   | 6.9        |
| 12084.500000    | 45.80            | ---              | 74.00          | 28.20       | H   | 9.4        |
| 14474.500000    | ---              | 35.43            | 54.00          | 18.57       | V   | 12.6       |
| 14593.000000    | 48.09            | ---              | 74.00          | 25.91       | H   | 12.6       |
| 16633.000000    | ---              | 37.53            | 54.00          | 16.47       | H   | 16.2       |
| 17139.500000    | 50.34            | ---              | 74.00          | 23.66       | V   | 16.2       |
| 17934.000000    | ---              | 38.75            | 54.00          | 15.25       | H   | 17.6       |

**Note:**

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and Antenna Factor, the gain of the preamplifier, the cable loss.  $P_{Mea}$  is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result=  $P_{Mea}$  +Cable Loss +Antenna Factor-Gain of the preamplifier.

See below for test graphs.

Conclusion: Pass

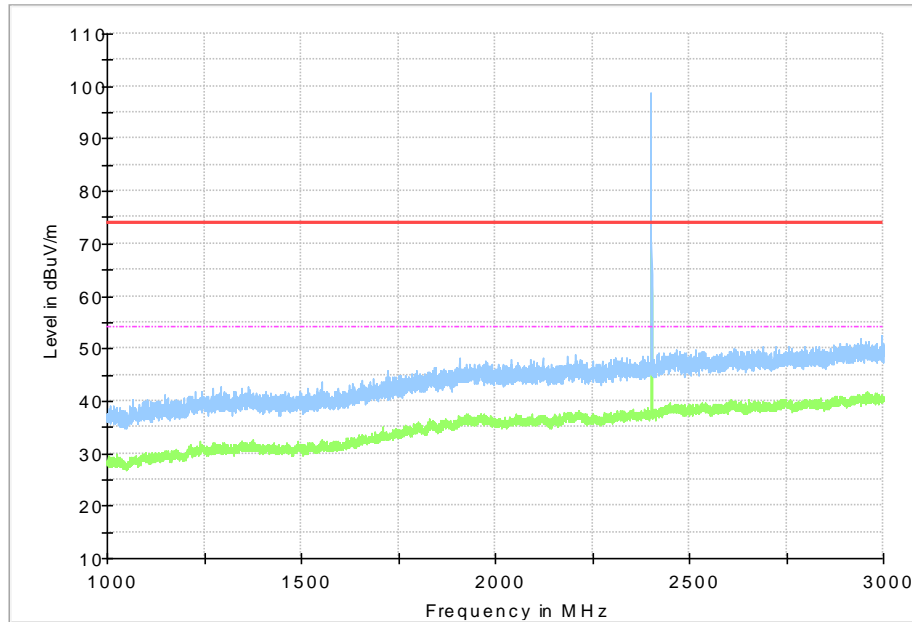


Fig.42 Radiated Spurious Emission (GFSK, Ch0, 1 GHz ~3 GHz, Horizontal Direction)

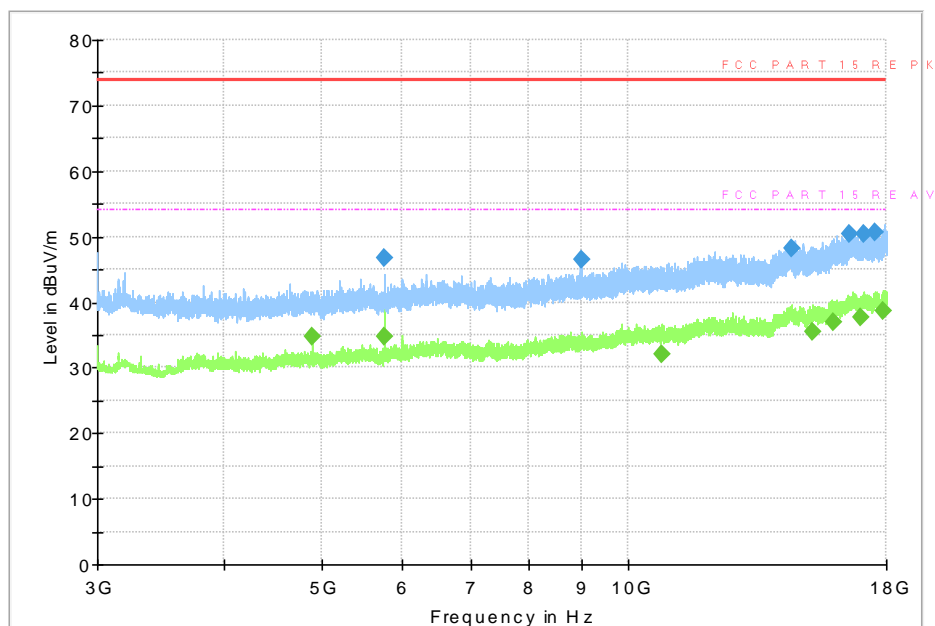


Fig.43 Radiated Spurious Emission (GFSK, Ch0, 3GHz ~18 GHz, Horizontal Direction)

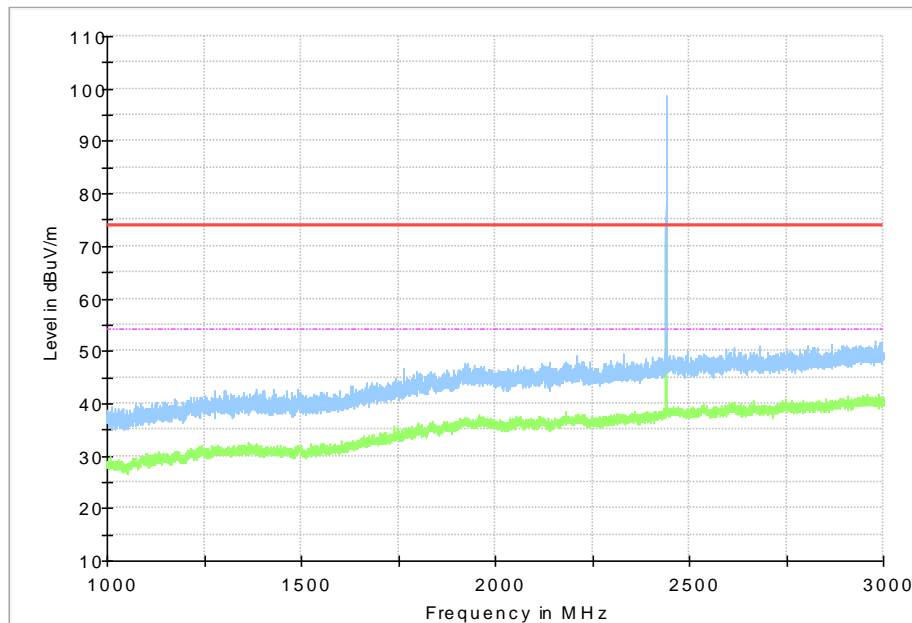


Fig.44 Radiated Spurious Emission (GFSK, Ch39, 1GHz ~3 GHz ,Horizontal Direction)

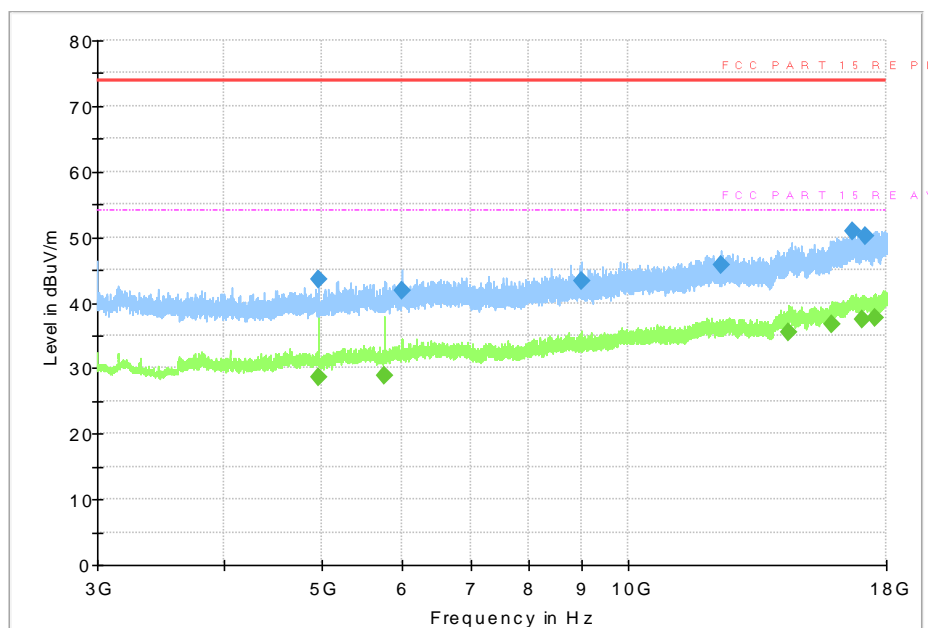


Fig.45 Radiated Spurious Emission (GFSK, Ch39, 3GHz ~18 GHz ,Horizontal Direction)

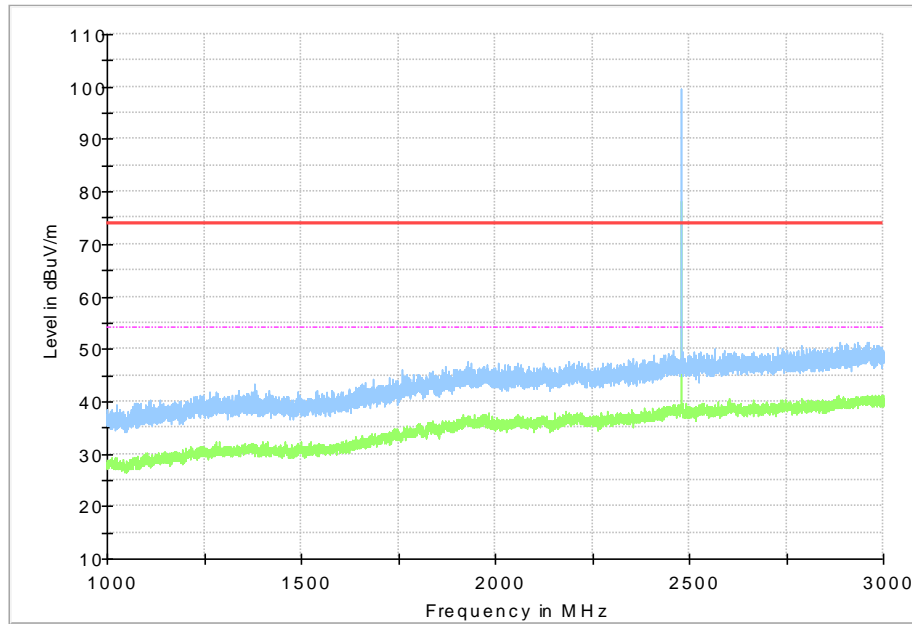


Fig.46 Radiated Spurious Emission (GFSK, Ch78, 1GHz ~3 GHz ,Horizontal Direction)

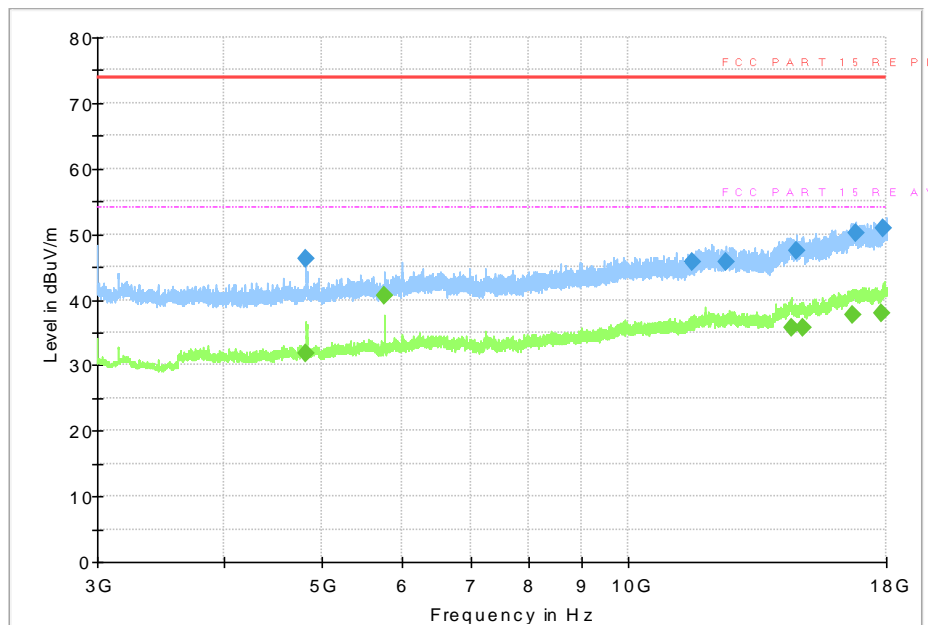


Fig.47 Radiated Spurious Emission (GFSK, Ch78, 3GHz ~18GHz , Horizontal Direction)



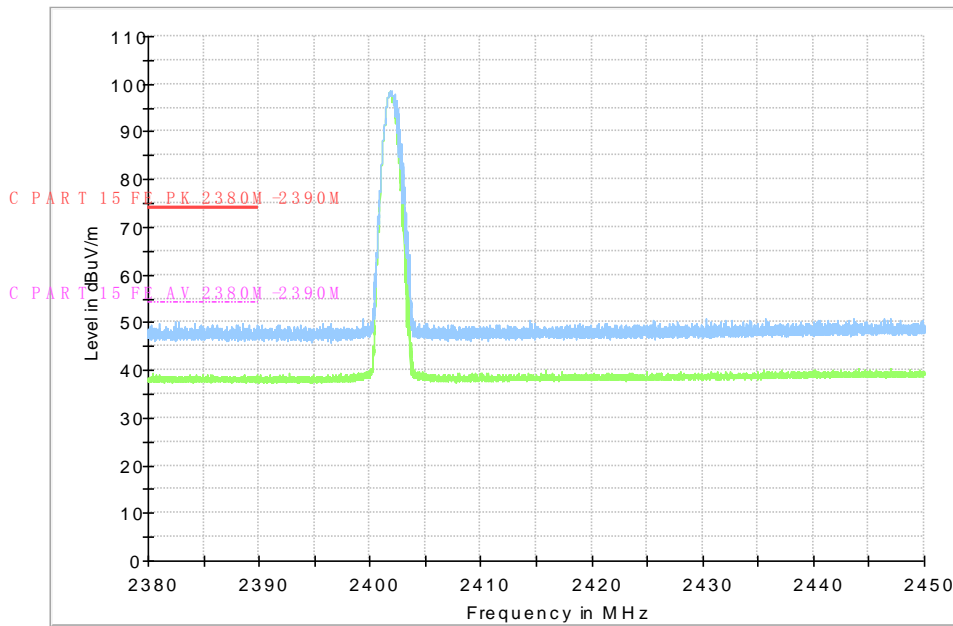


Fig.48 Radiated Band Edges (GFSK, Ch0, 2380GHz~2450GHz , Horizontal Direction)

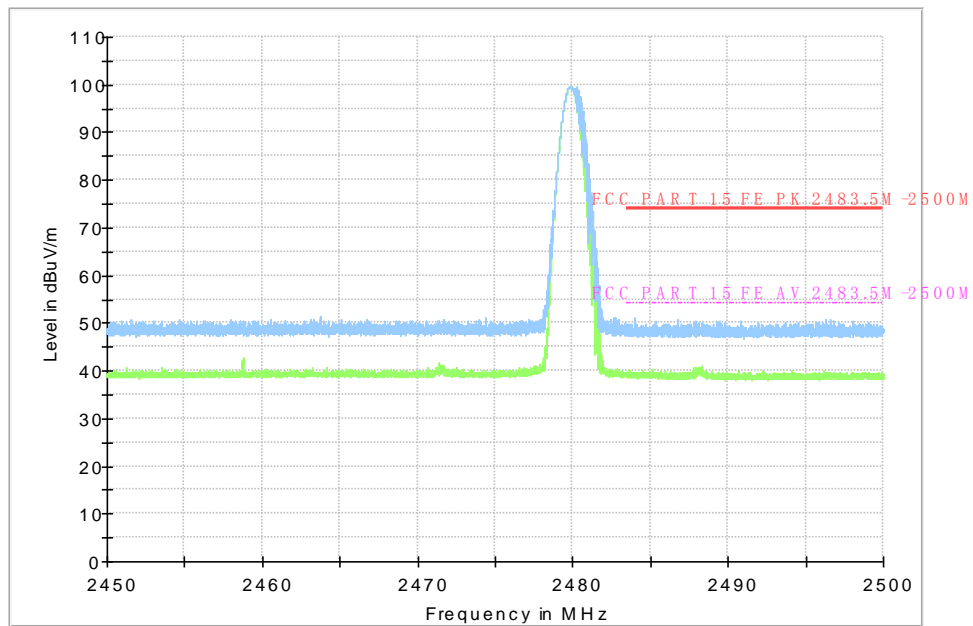


Fig.49 Radiated Band Edges (GFSK, Ch78, 2450GHz~2500GHz , Horizontal Direction)

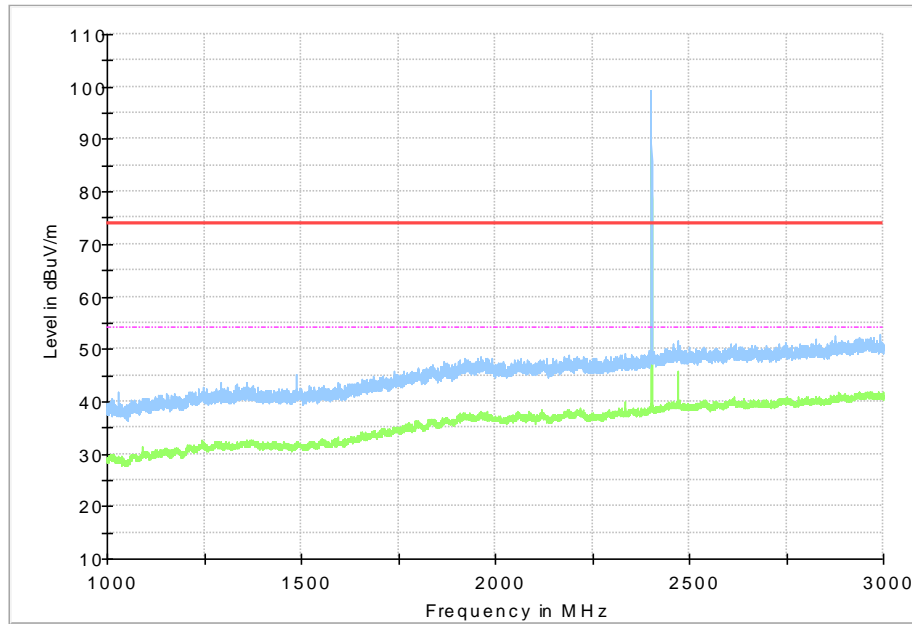


Fig.50 Radiated Spurious Emission (GFSK, Ch0, 1GHz ~3GHz , Vertical Direction)

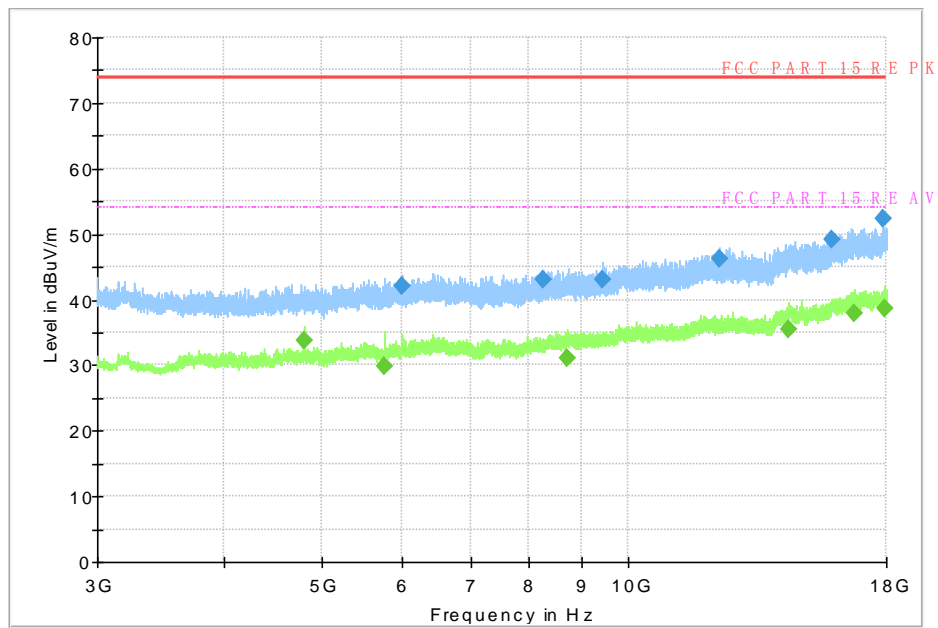


Fig.51 Radiated Spurious Emission (GFSK, Ch0, 3GHz ~18GHz , Vertical Direction)

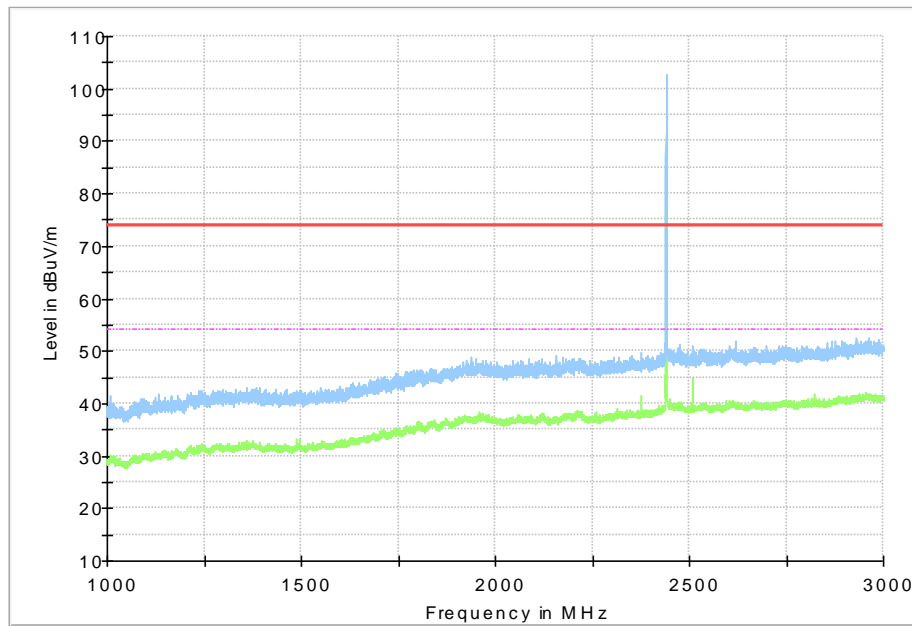


Fig.52 Radiated Spurious Emission (GFSK, Ch39, 1GHz ~3GHz , Vertical Direction)

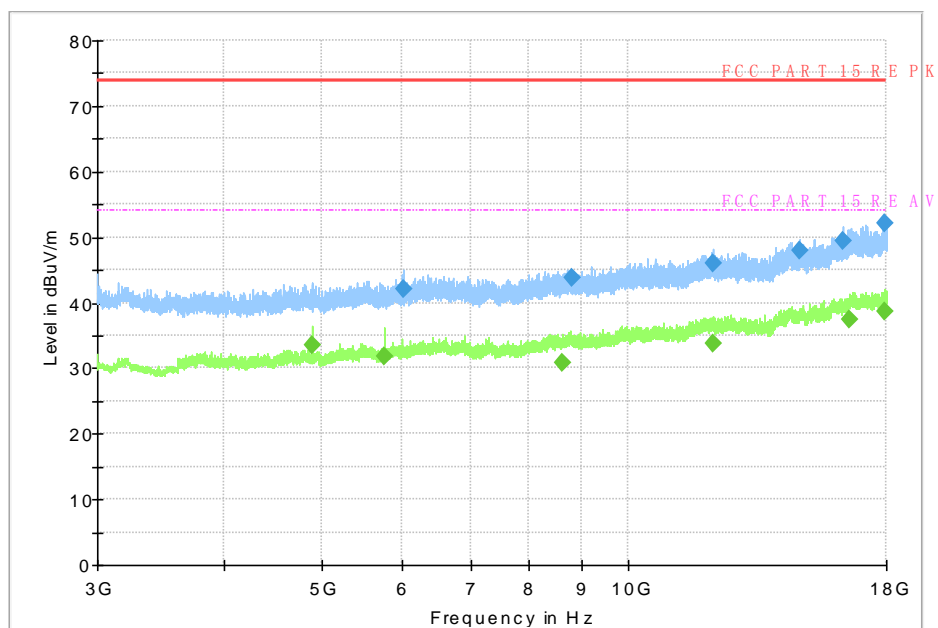


Fig.53 Radiated Spurious Emission (GFSK, Ch39, 3GHz ~18GHz , Vertical Direction)

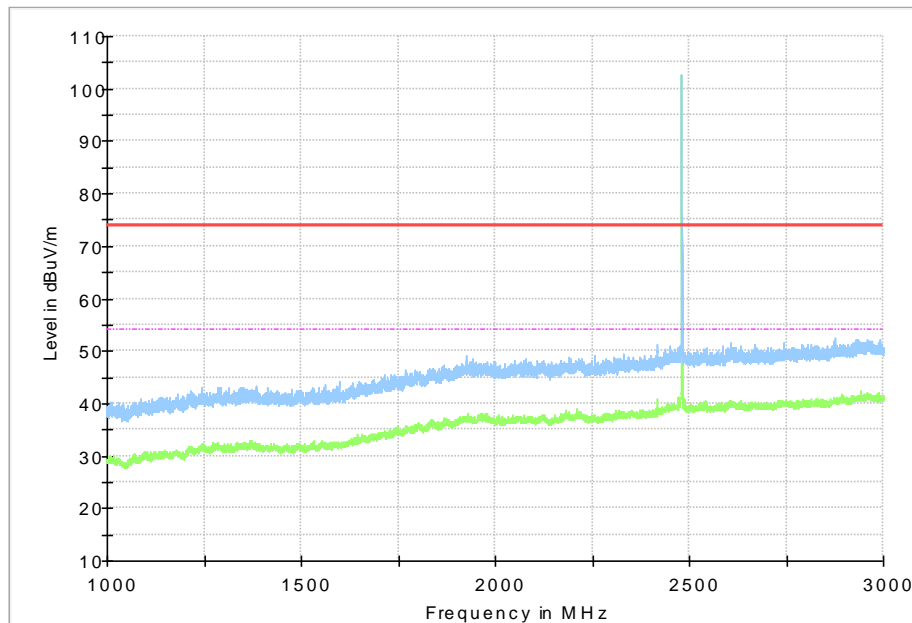


Fig.54 Radiated Spurious Emission (GFSK, Ch78, 1GHz ~3GHz , Vertical Direction)

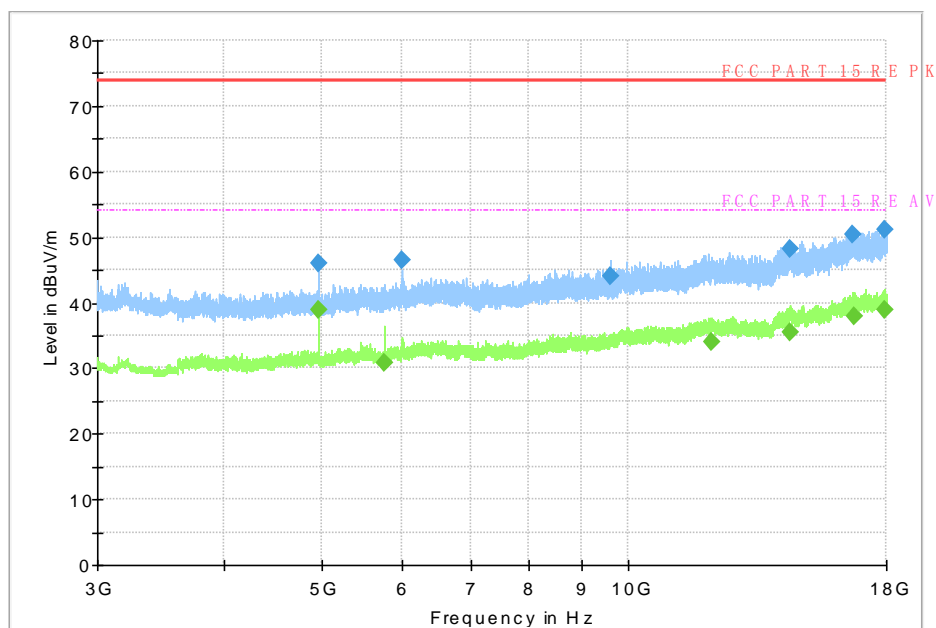


Fig.55 Radiated Spurious Emission (GFSK, Ch78, 3GHz ~18GHz , Vertical Direction)

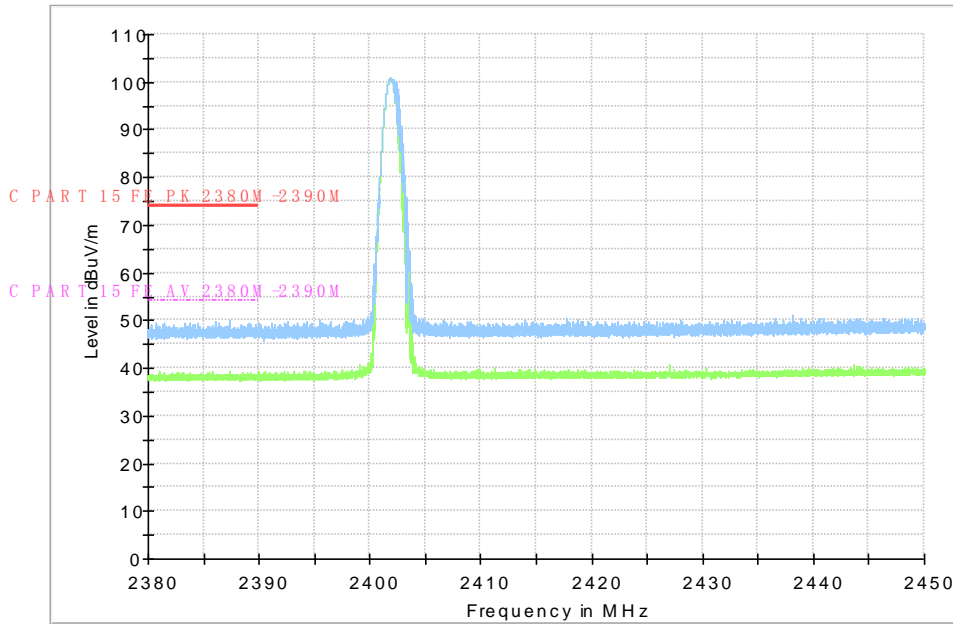


Fig.56 Radiated Band Edges (GFSK, Ch0, 2380GHz~2450GHz , Vertical Direction)

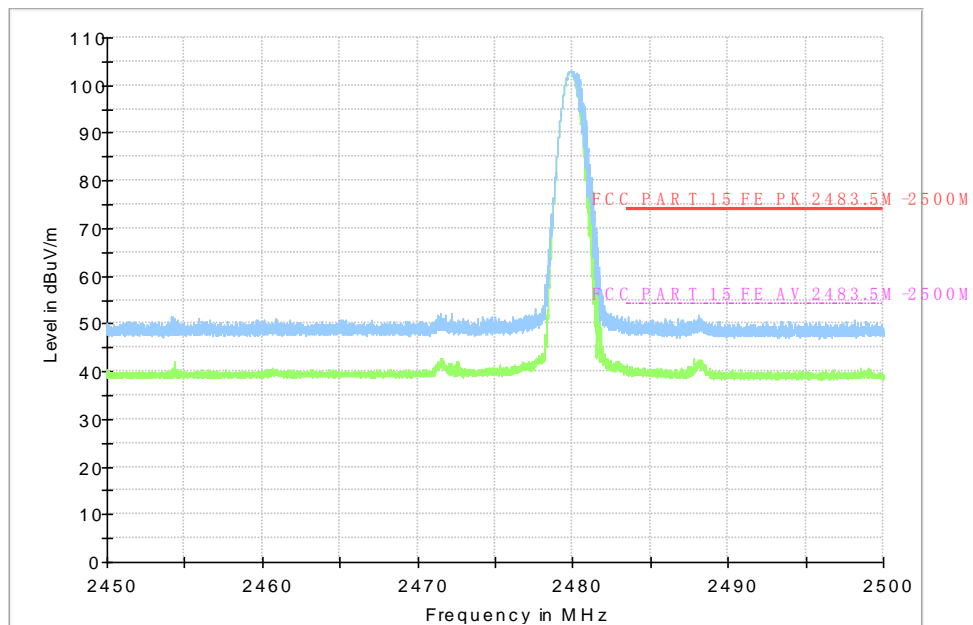


Fig.57 Radiated Band Edges (GFSK, Ch78, 2450GHz~2500GHz, Vertical Direction)

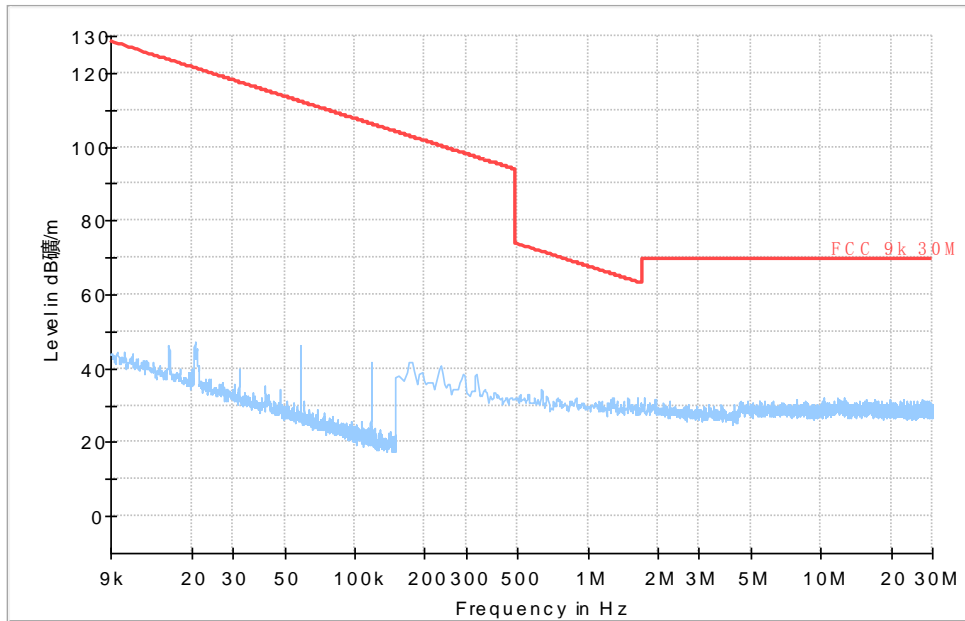


Fig.58 Radiated Spurious Emission (GFSK, All Channels, 9 kHz-30 MHz)

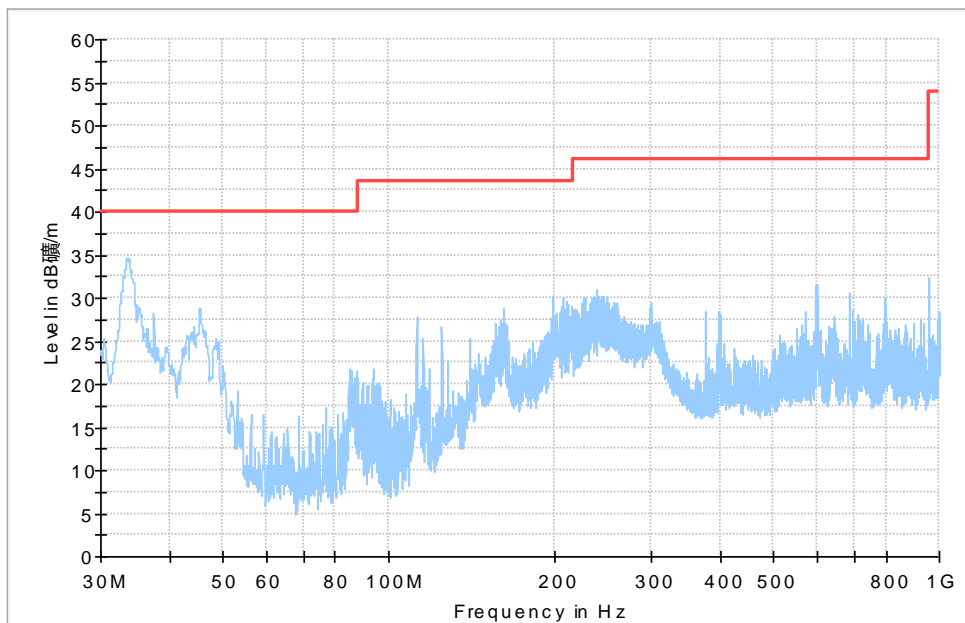


Fig.59 Radiated Spurious Emission (GFSK, All Channels, 30 MHz ~1 GHz )

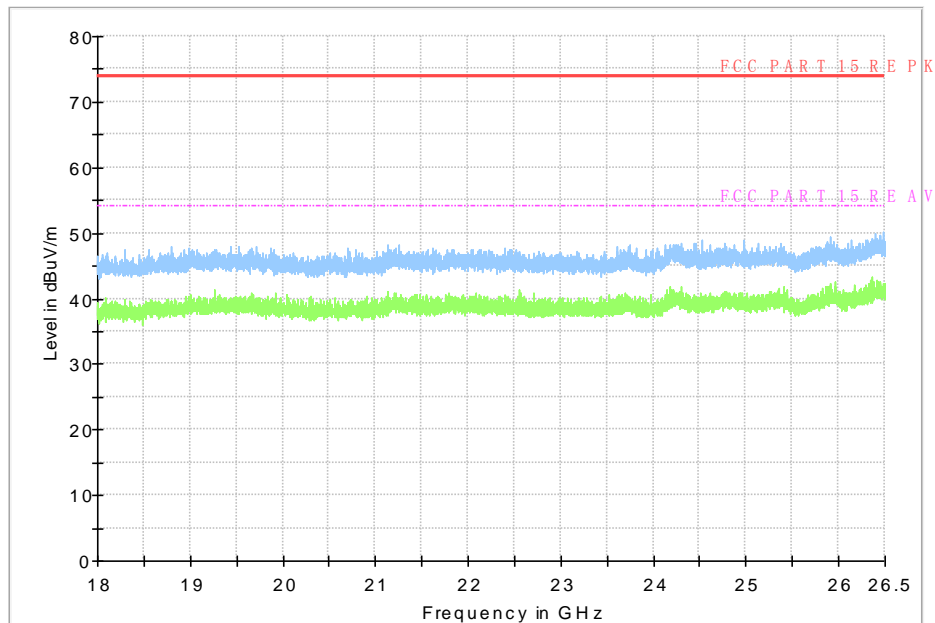


Fig.60 Radiated Spurious Emission (GFSK, All Channels, 18 GHz~ 26.5 GHz )

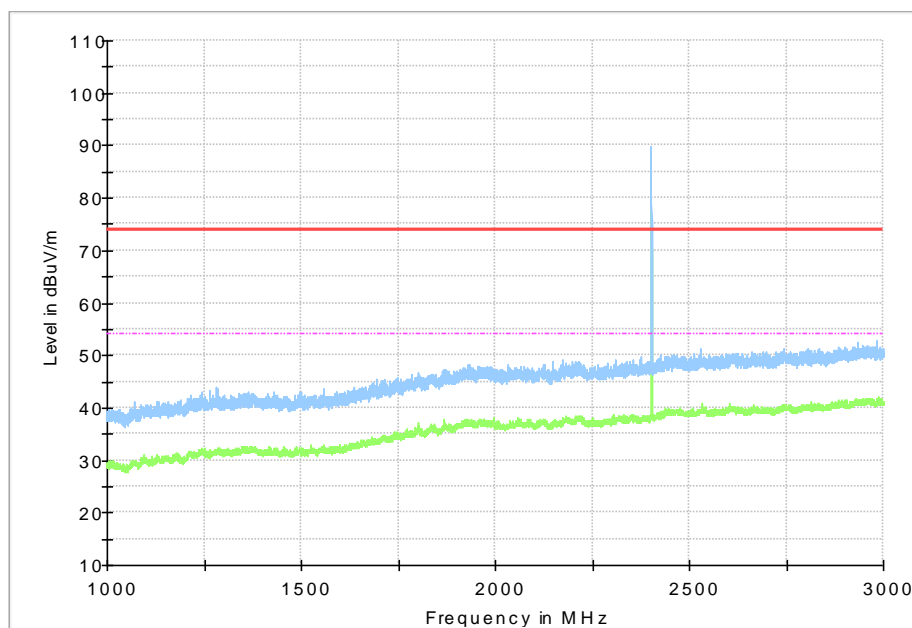


Fig.61 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch0, 1 GHz ~3 GHz, Horizontal Direction)

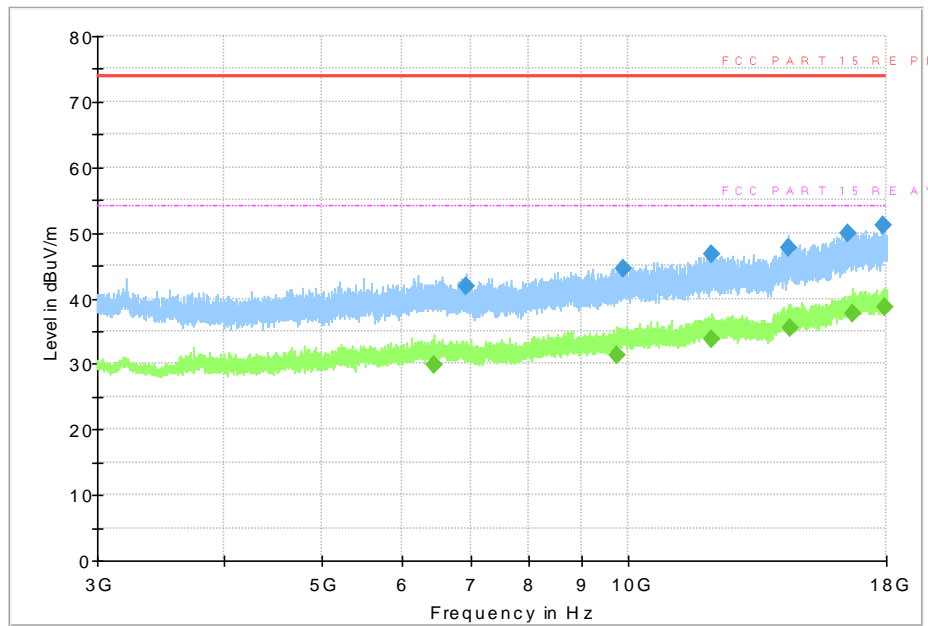


Fig.62 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch0, 3GHz ~18 GHz, Horizontal Direction)

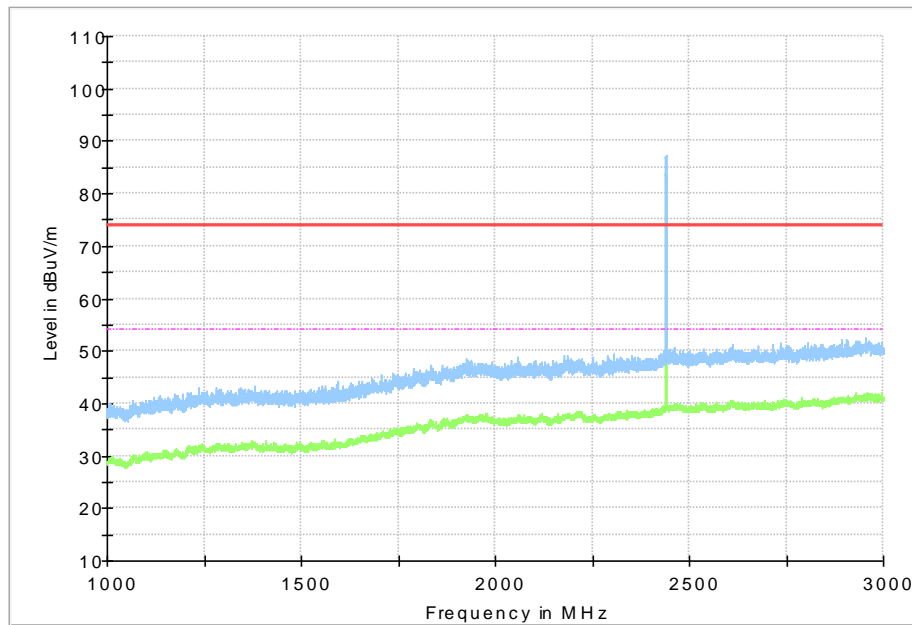


Fig.63 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch39, 1GHz ~3 GHz ,Horizontal Direction)



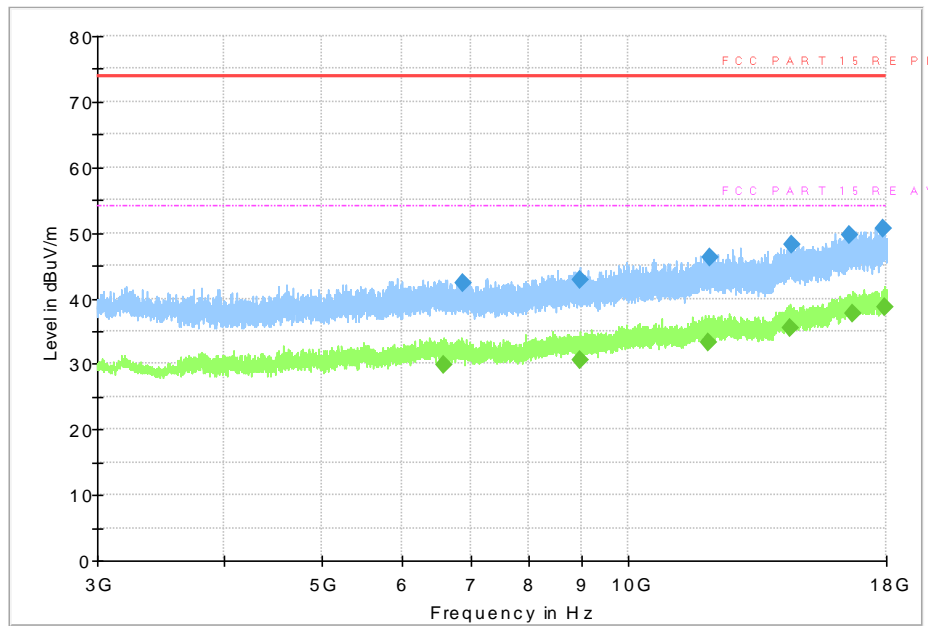


Fig.64 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch39, 3GHz ~18 GHz ,Horizontal Direction)

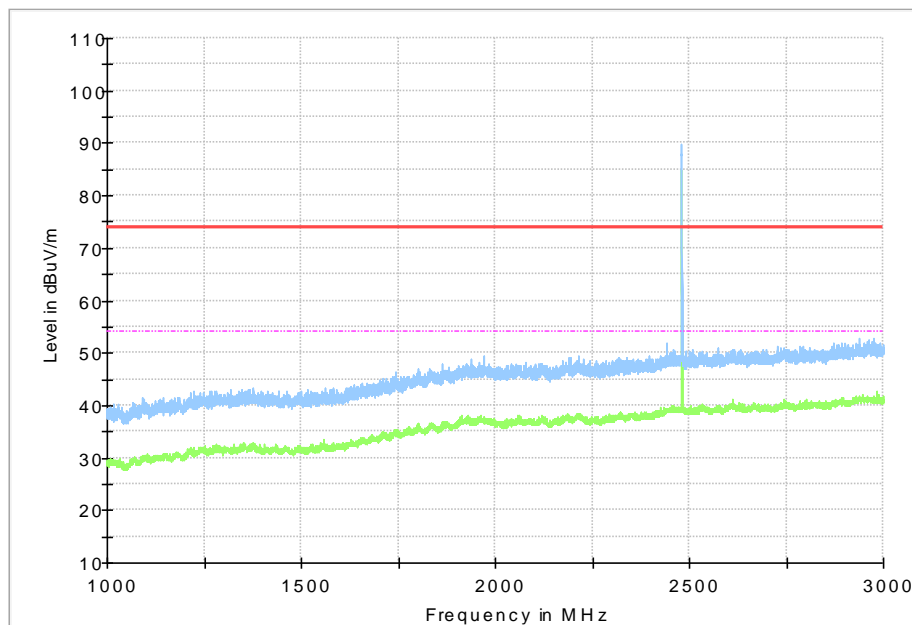


Fig.65 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch78, 1GHz ~3 GHz ,Horizontal Direction)

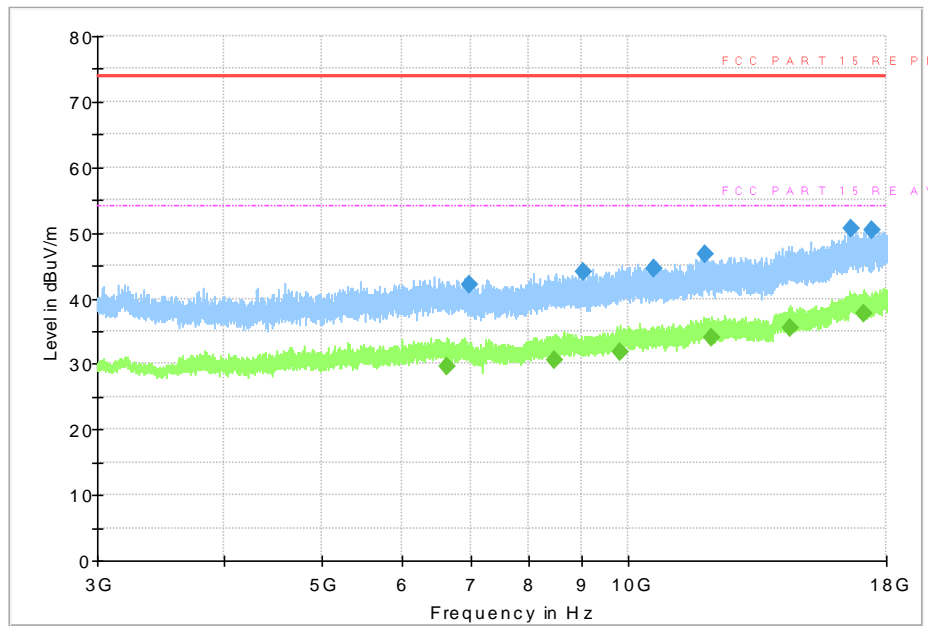


Fig.66 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch78, 3GHz ~18GHz , Horizontal Direction)

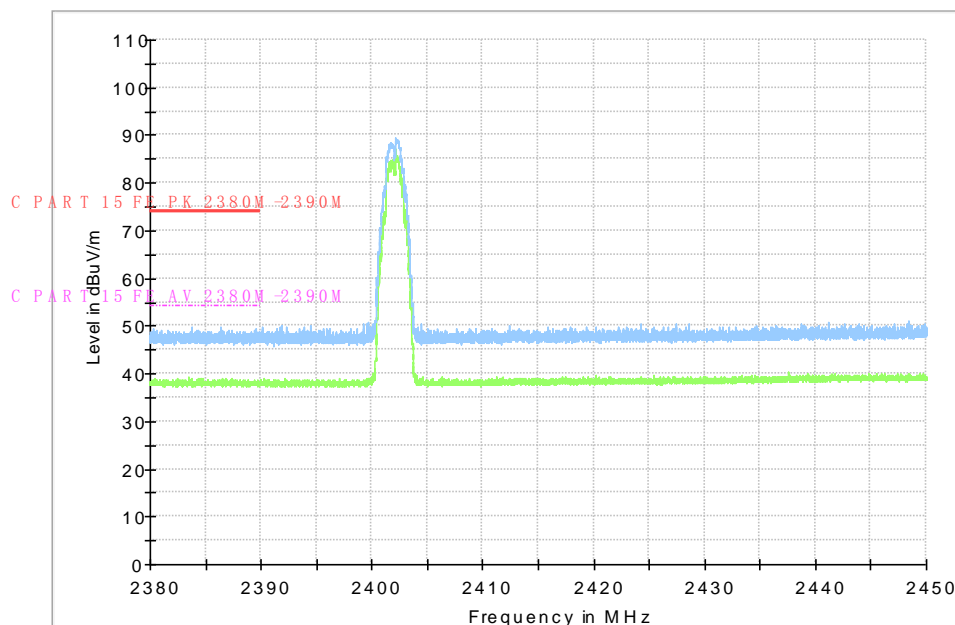


Fig.67 Radiated Band Edges ( $\pi/4$  DQPSK, Ch0, 2380GHz~2450GHz , Horizontal Direction)

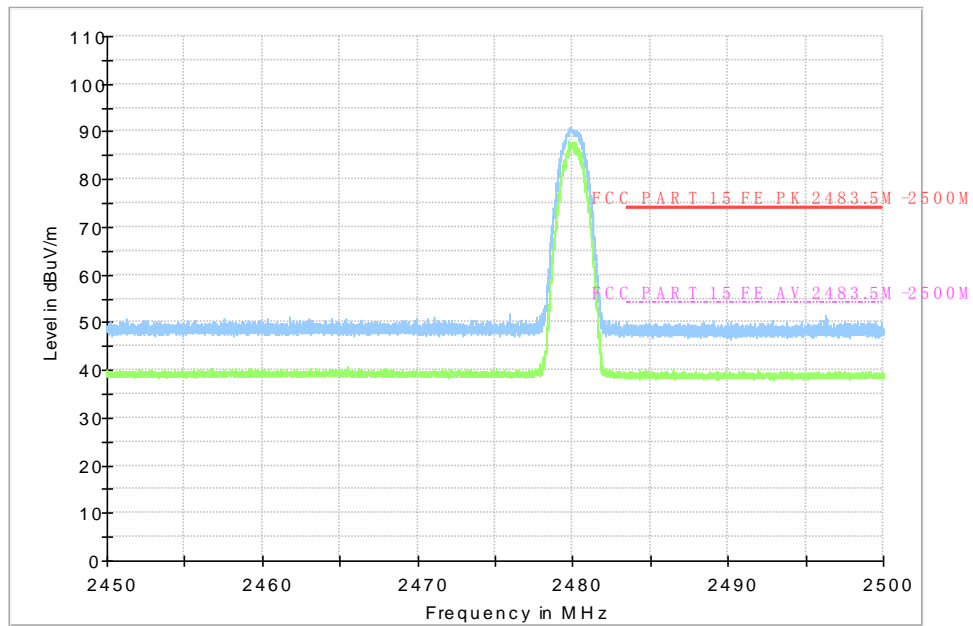


Fig.68 Radiated Band Edges ( $\pi/4$  DQPSK, Ch78, 2450GHz~2500GHz , Horizontal Direction)

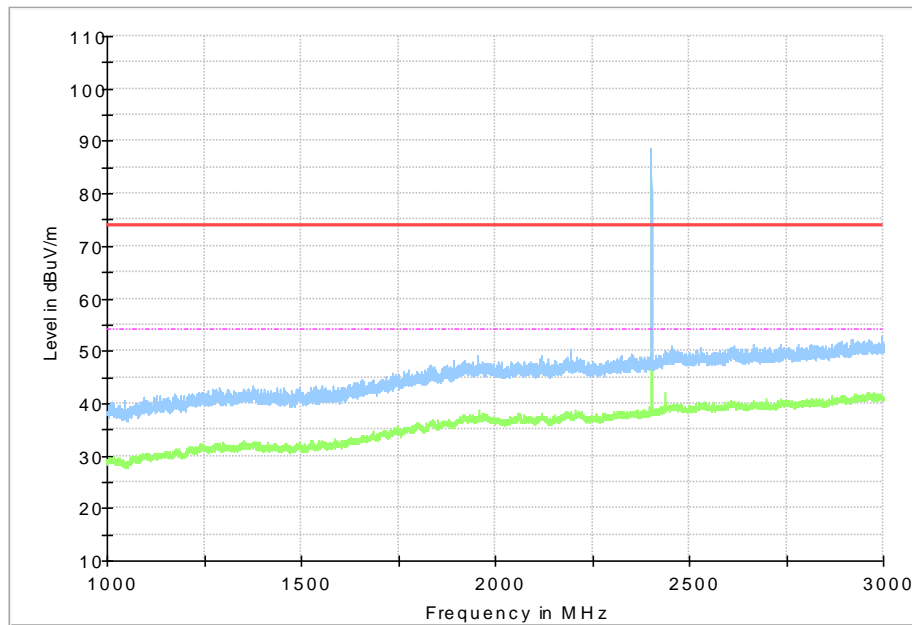


Fig.69 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch0, 1GHz ~3GHz , Vertical Direction)

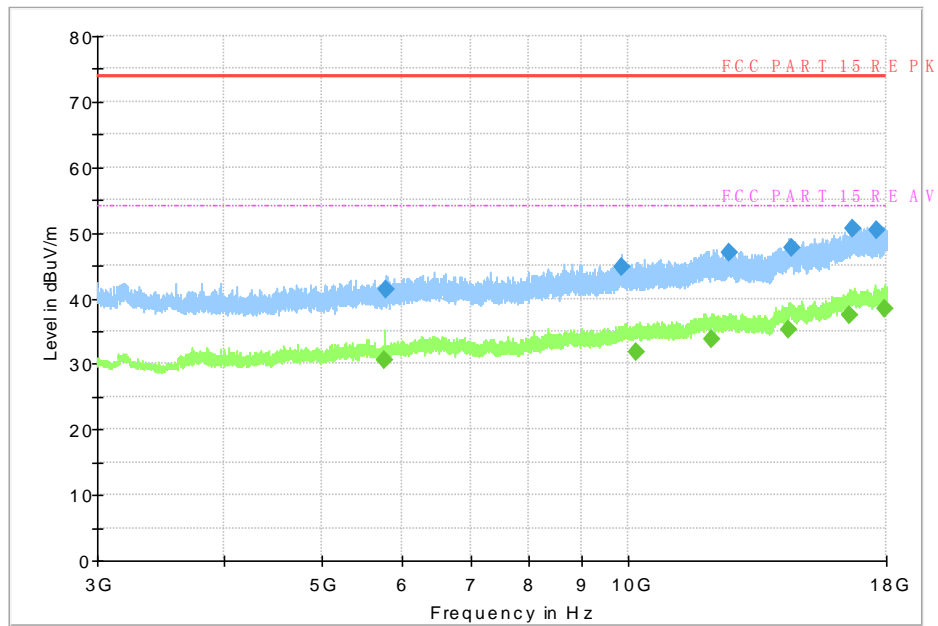


Fig.70 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch0, 3GHz ~18GHz , Vertical Direction)

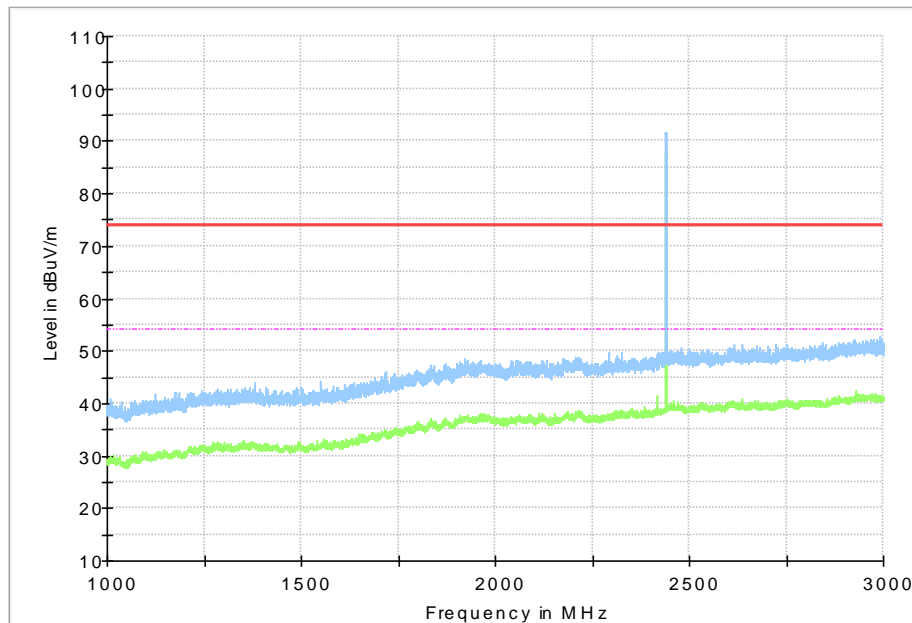


Fig.71 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch39, 1GHz ~3GHz , Vertical Direction)

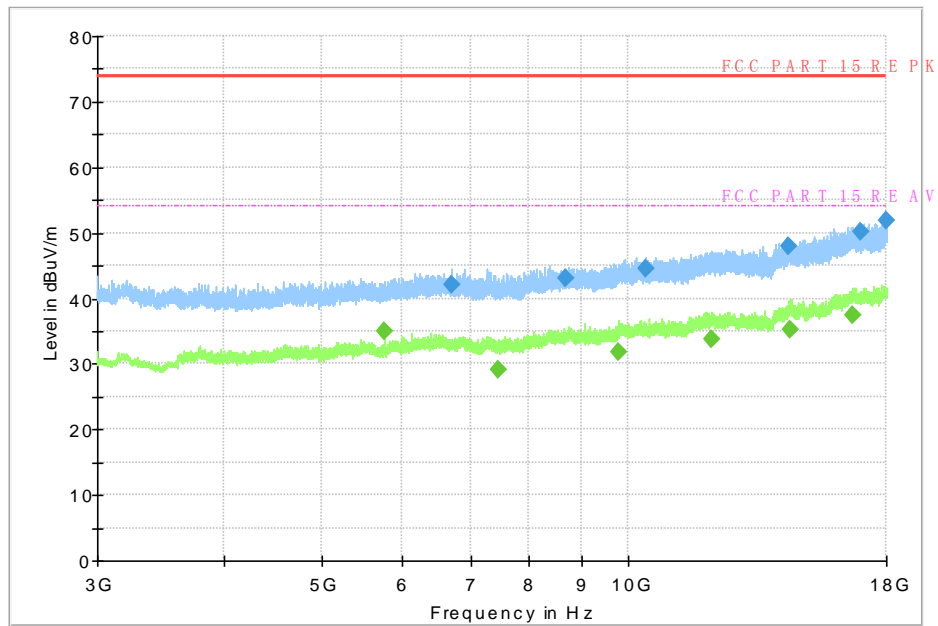


Fig.72 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch39, 3GHz ~18GHz , Vertical Direction)

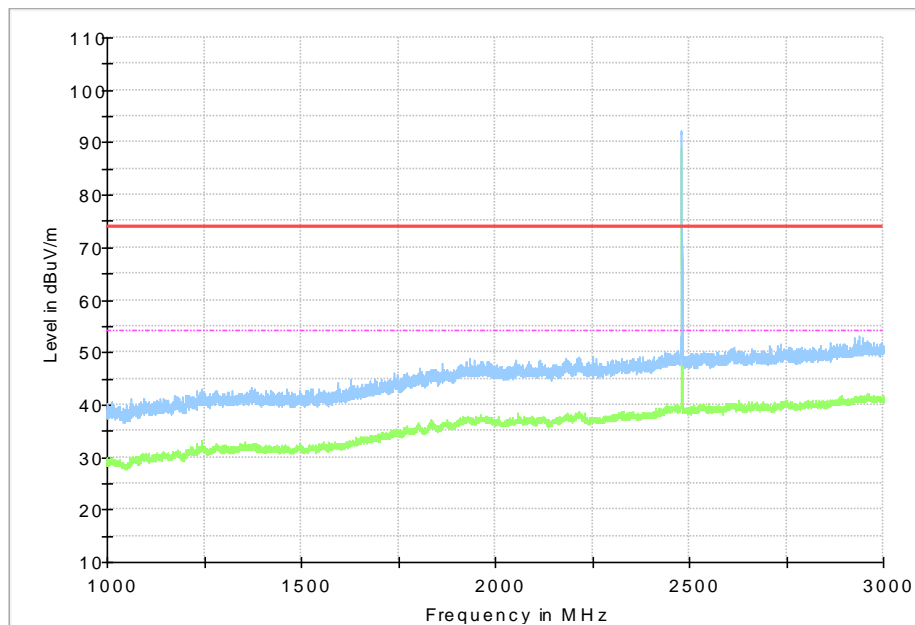


Fig.73 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch78, 1GHz ~3GHz , Vertical Direction)

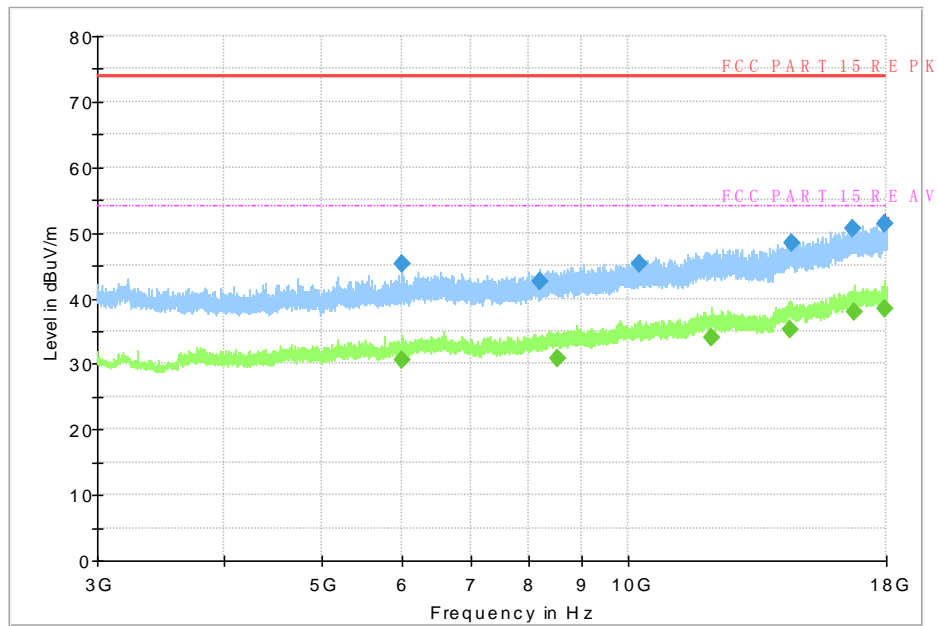


Fig.74 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch78, 3GHz ~18GHz , Vertical Direction)

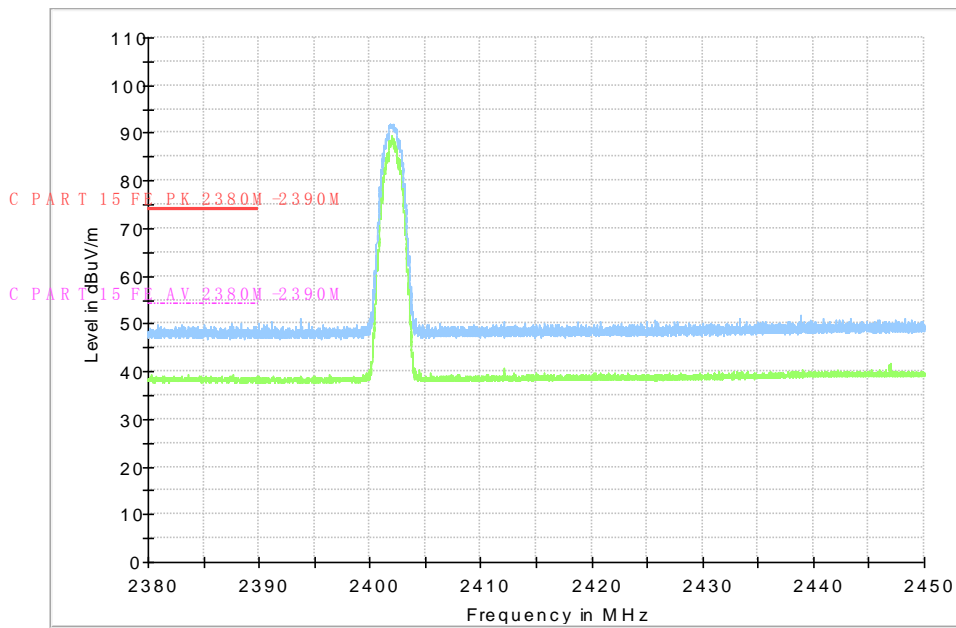


Fig.75 Radiated Band Edges ( $\pi/4$  DQPSK, Ch0, 2380GHz~2450GHz , Vertical Direction)

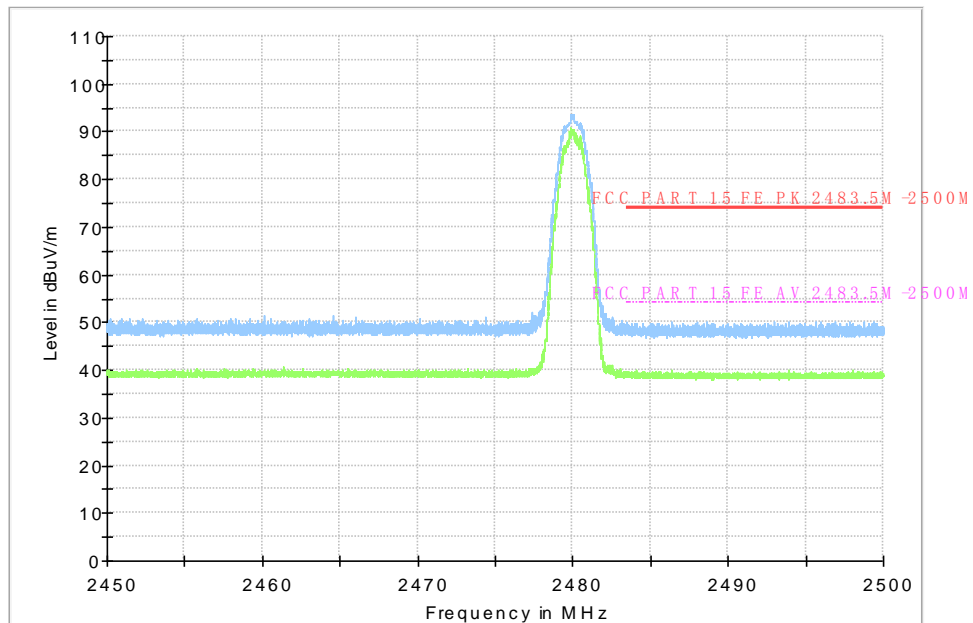


Fig.76 Radiated Band Edges ( $\pi/4$  DQPSK, Ch78, 2450GHz~2500GHz, Vertical Direction)

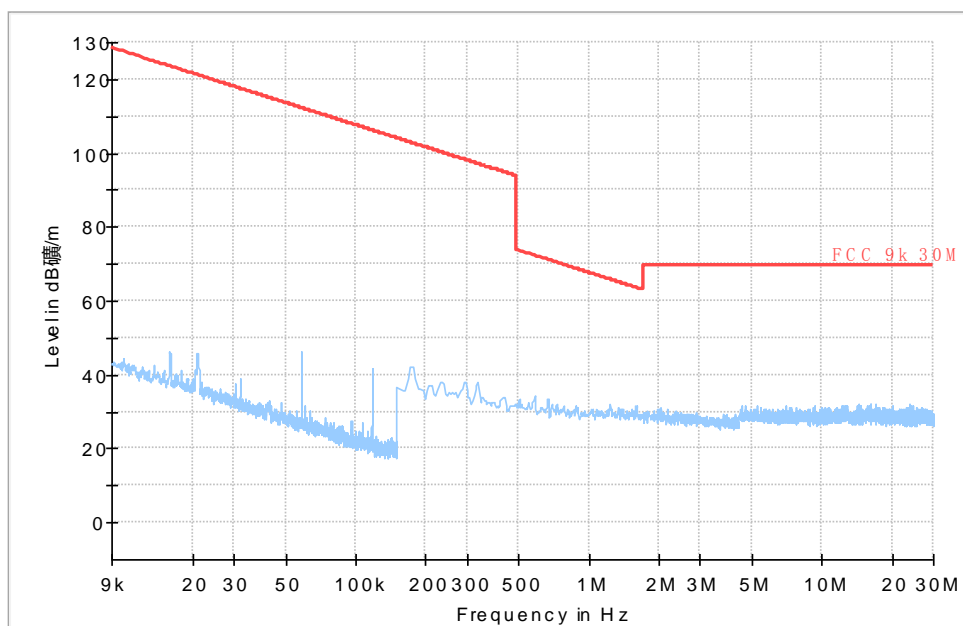


Fig.77 Radiated Spurious Emission ( $\pi/4$  DQPSK, All Channels, 9 kHz-30 MHz)

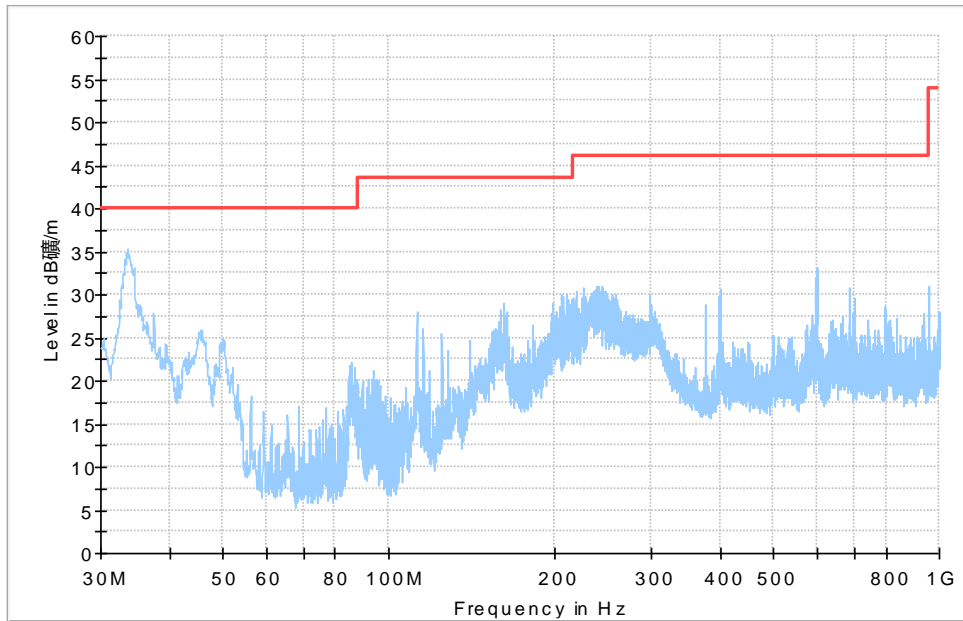


Fig.78 Radiated Spurious Emission ( $\pi/4$  DQPSK, All Channels, 30 MHz ~1 GHz )

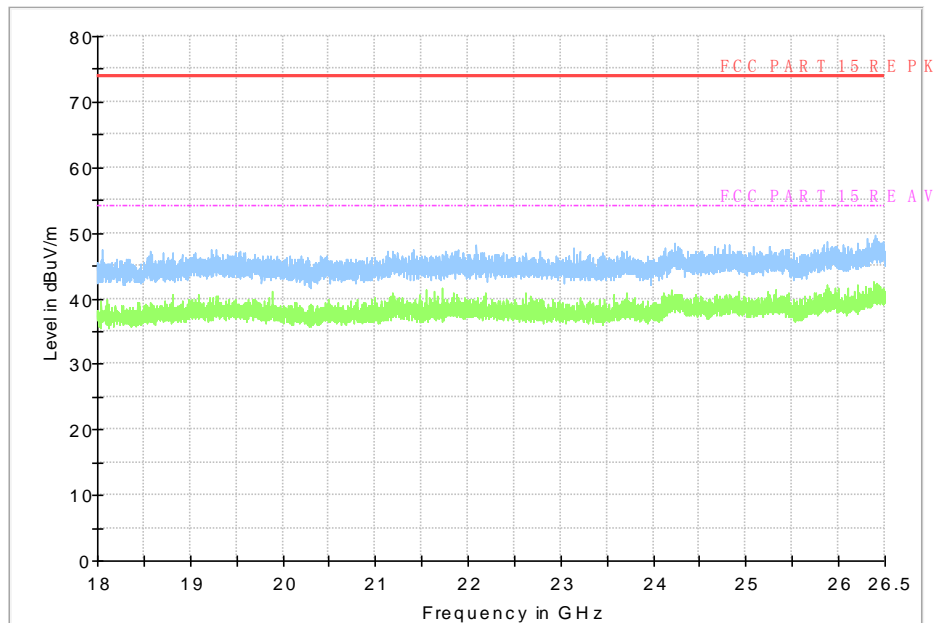


Fig.79 Radiated Spurious Emission ( $\pi/4$  DQPSK, All Channels, 18 GHz~ 26.5 GHz )



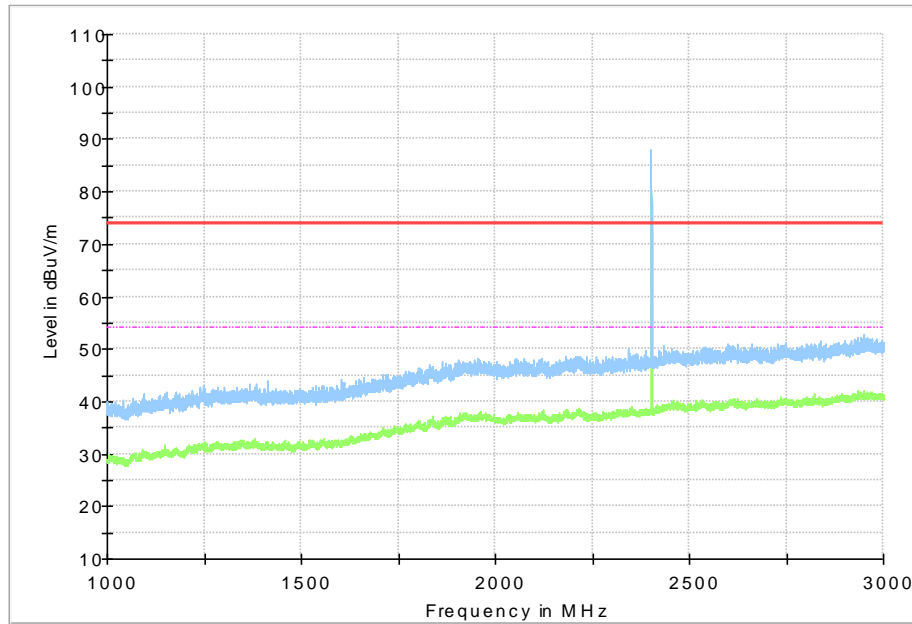


Fig.80 Radiated Spurious Emission (8DPSK, Ch0, 1 GHz ~3 GHz, Horizontal Direction)

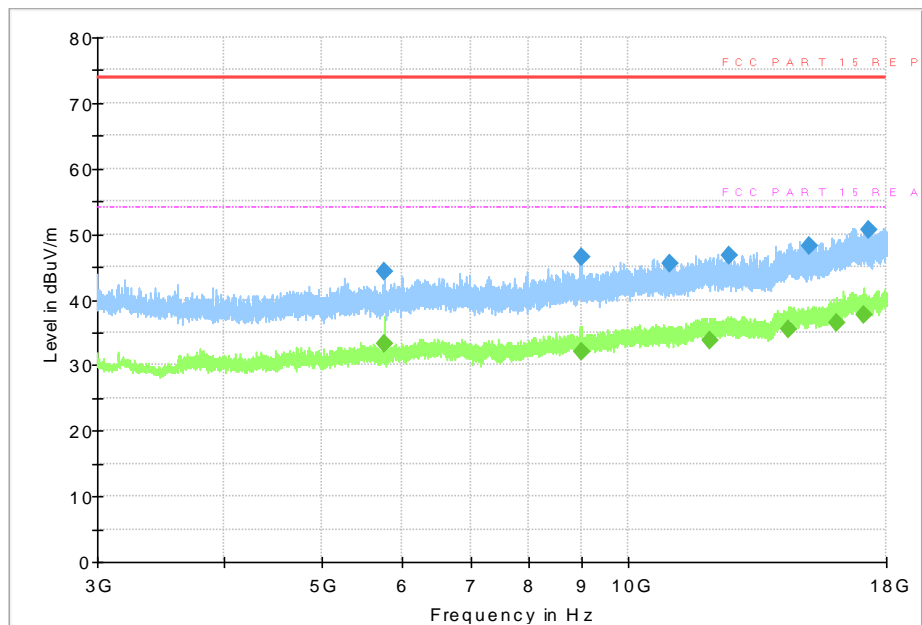


Fig.81 Radiated Spurious Emission (8DPSK, Ch0, 3GHz ~18 GHz, Horizontal Direction)

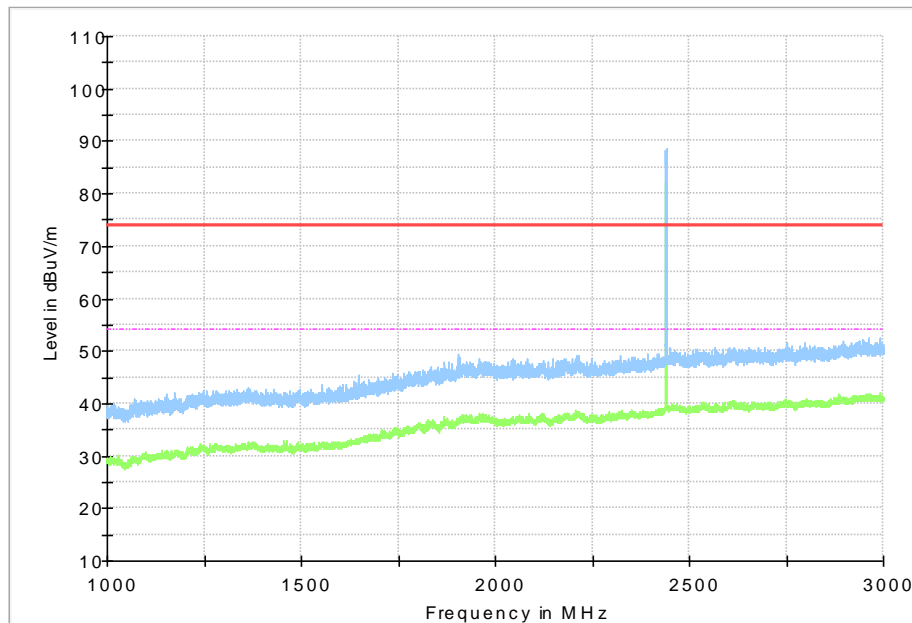


Fig.82 Radiated Spurious Emission (8DPSK, Ch39, 1GHz ~3 GHz ,Horizontal Direction)

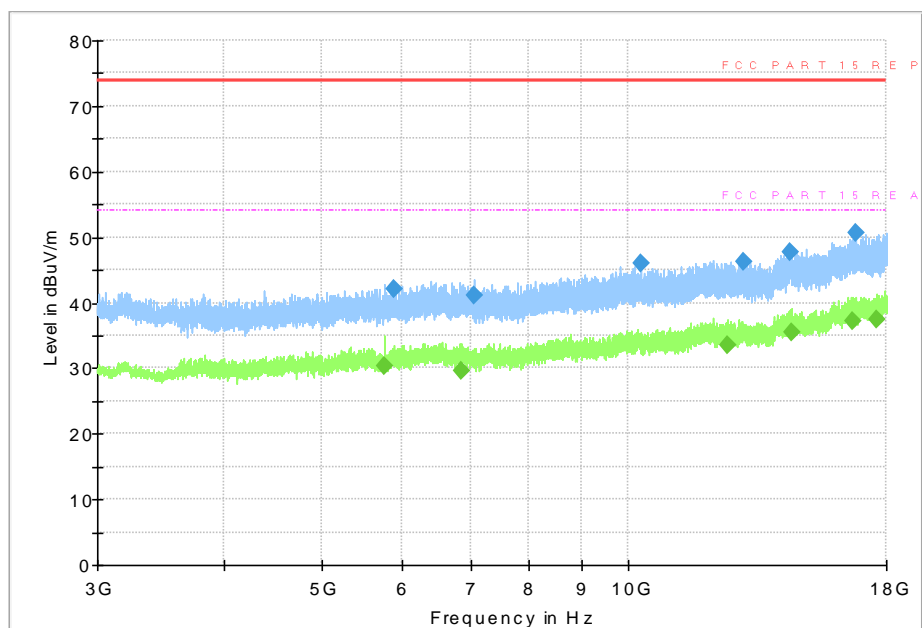


Fig.83 Radiated Spurious Emission (8DPSK, Ch39, 3GHz ~18 GHz ,Horizontal Direction)

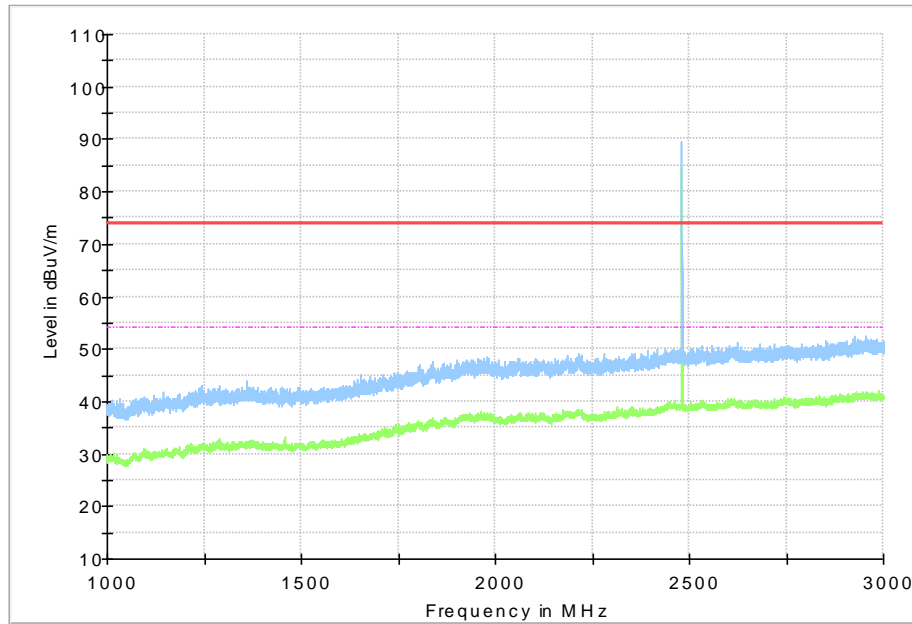


Fig.84 Radiated Spurious Emission (8DPSK, Ch78, 1GHz ~3 GHz ,Horizontal Direction)

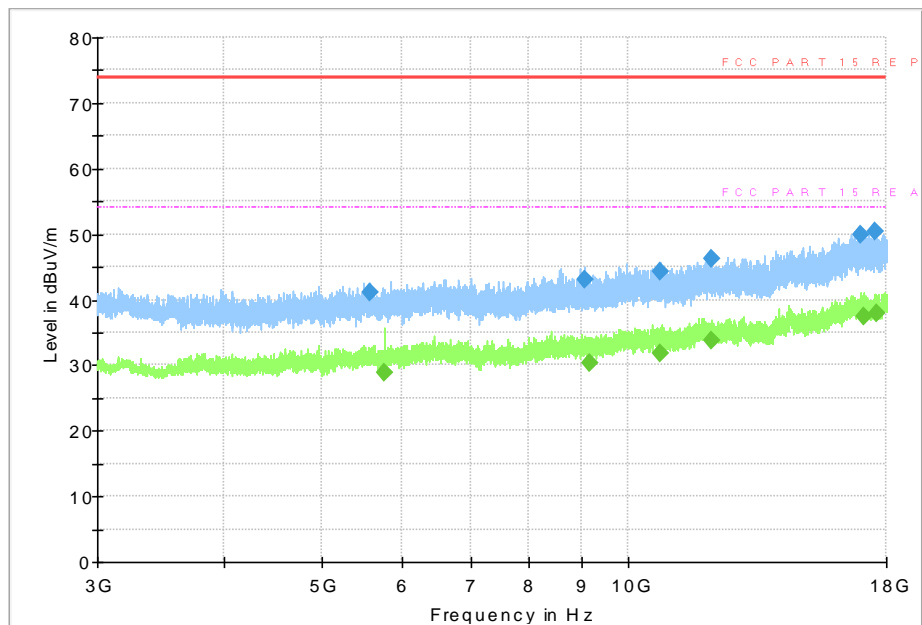


Fig.85 Radiated Spurious Emission (8DPSK, Ch78, 3GHz ~18GHz , Horizontal Direction)

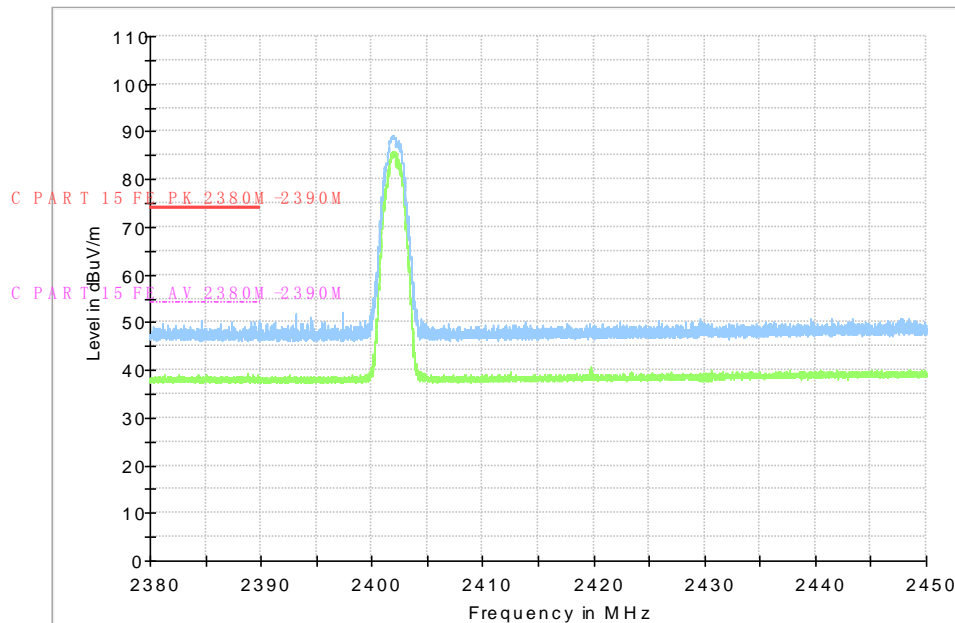


Fig.86 Radiated Band Edges (8DPSK, Ch0, 2380GHz~2450GHz , Horizontal Direction)

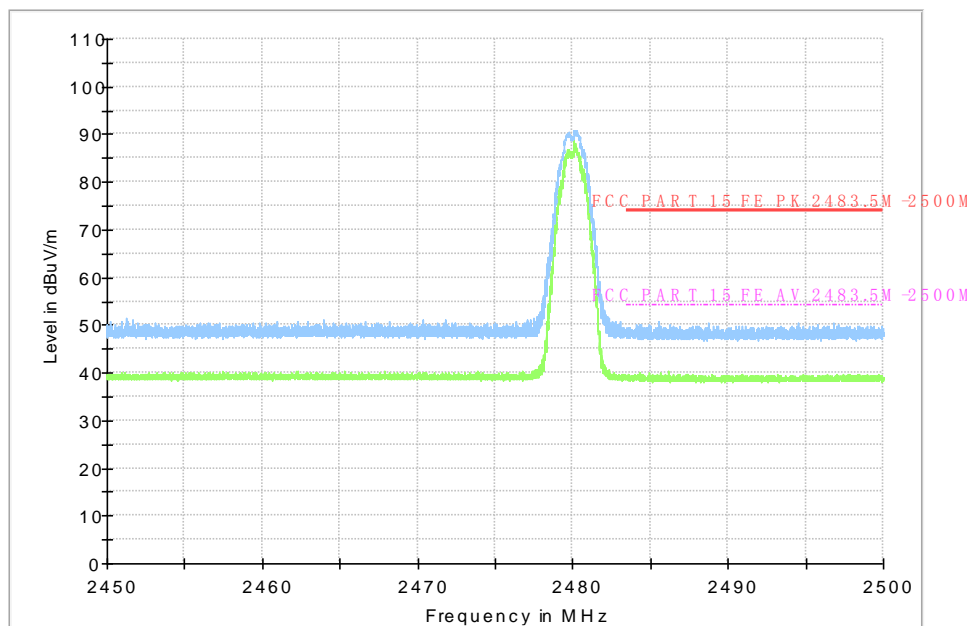


Fig.87 Radiated Band Edges (8DPSK, Ch78, 2450GHz~2500GHz , Horizontal Direction)

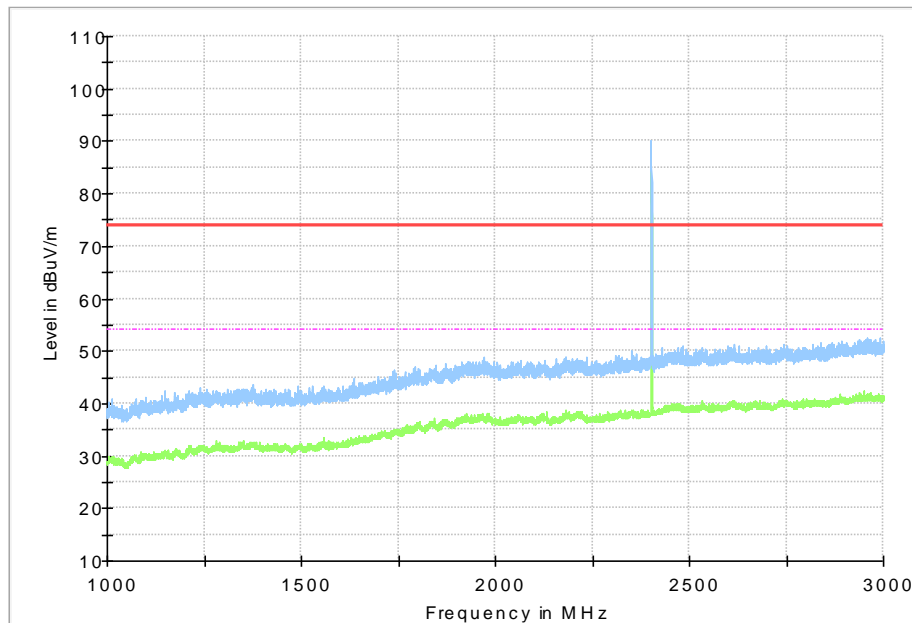


Fig.88 Radiated Spurious Emission (8DPSK, Ch0, 1GHz ~3GHz , Vertical Direction)

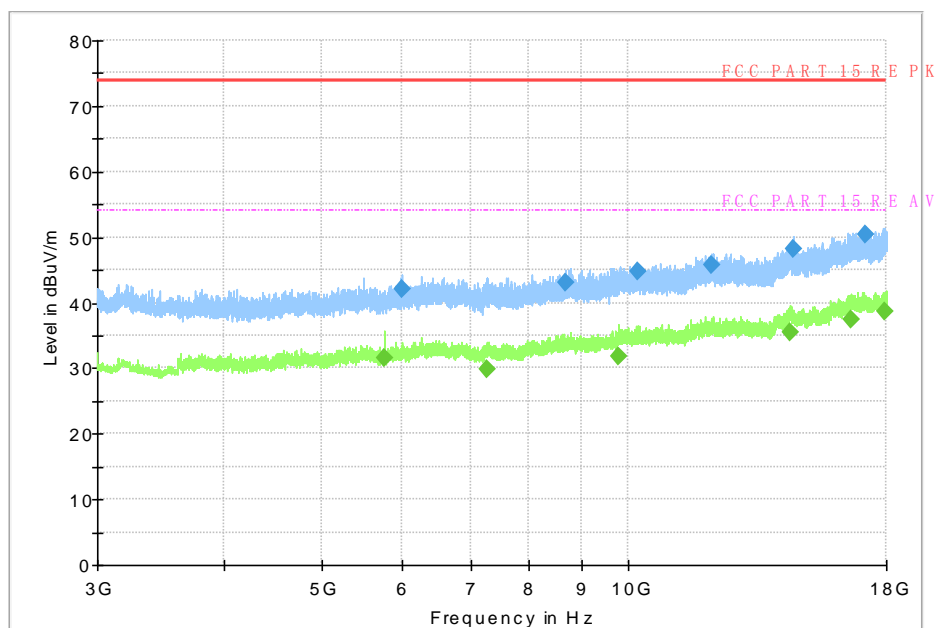


Fig.89 Radiated Spurious Emission (8DPSK, Ch0, 3GHz ~18GHz , Vertical Direction)

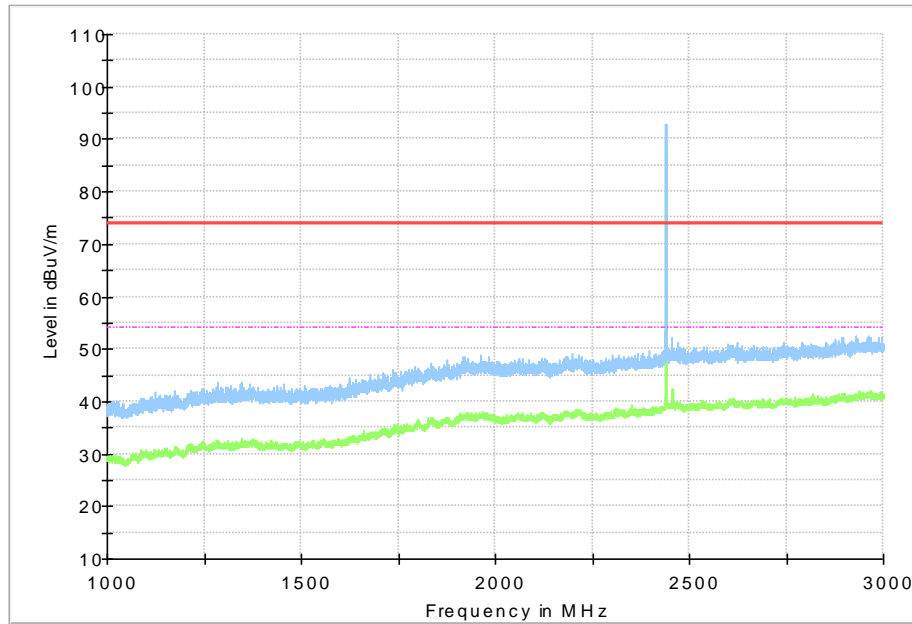


Fig.90 Radiated Spurious Emission (8DPSK, Ch39, 1GHz ~3GHz , Vertical Direction)

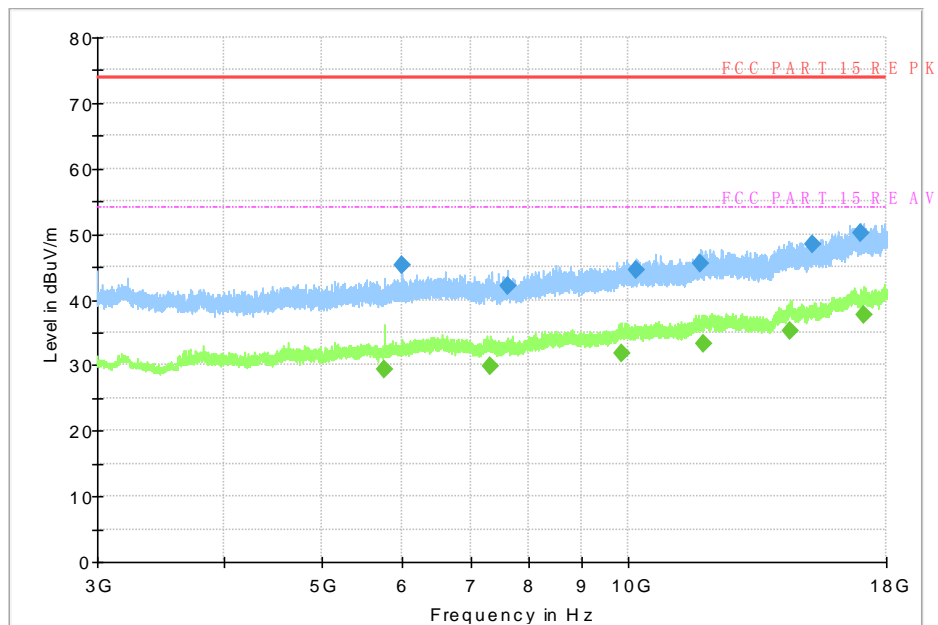


Fig.91 Radiated Spurious Emission (8DPSK, Ch39, 3GHz ~18GHz , Vertical Direction)

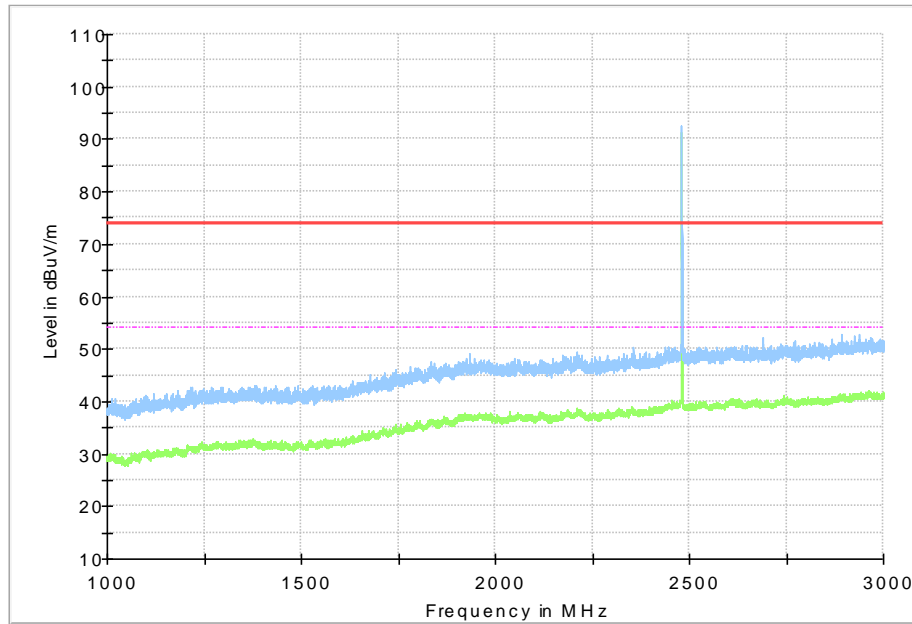


Fig.92 Radiated Spurious Emission (8DPSK, Ch78, 1GHz ~3GHz , Vertical Direction)

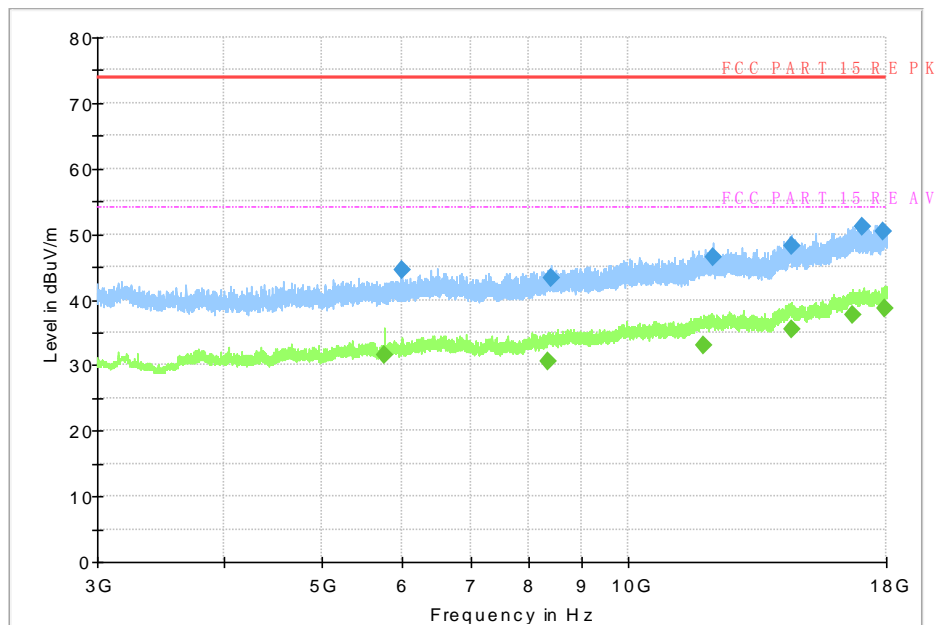


Fig.93 Radiated Spurious Emission (8DPSK, Ch78, 3GHz ~18GHz , Vertical Direction)

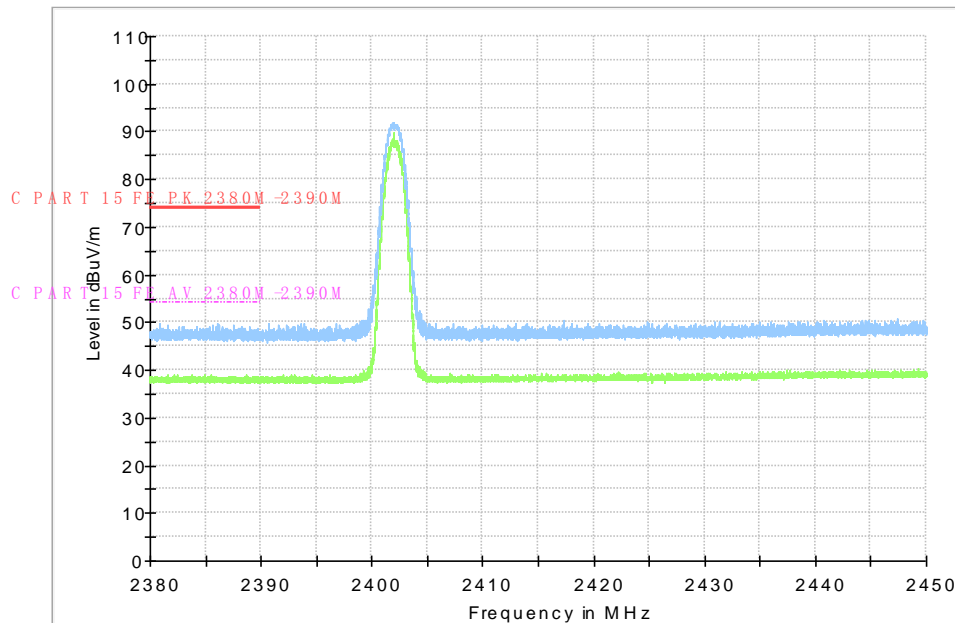


Fig.94 Radiated Band Edges (8DPSK, Ch0, 2380GHz~2450GHz ,Vertical Direction)

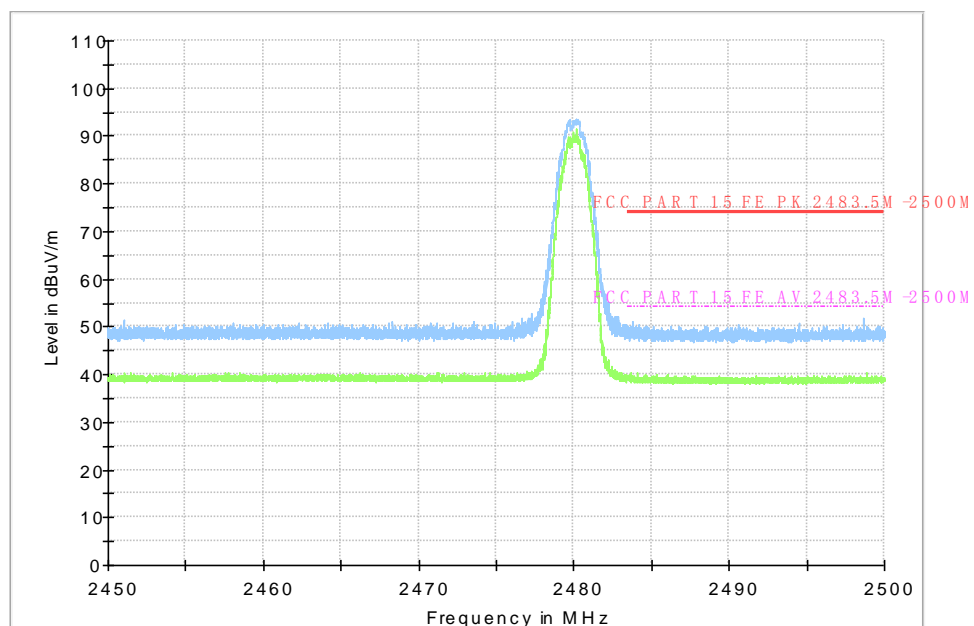


Fig.95 Radiated Band Edges (8DPSK, Ch78, 2450GHz~2500GHz, Vertical Direction)



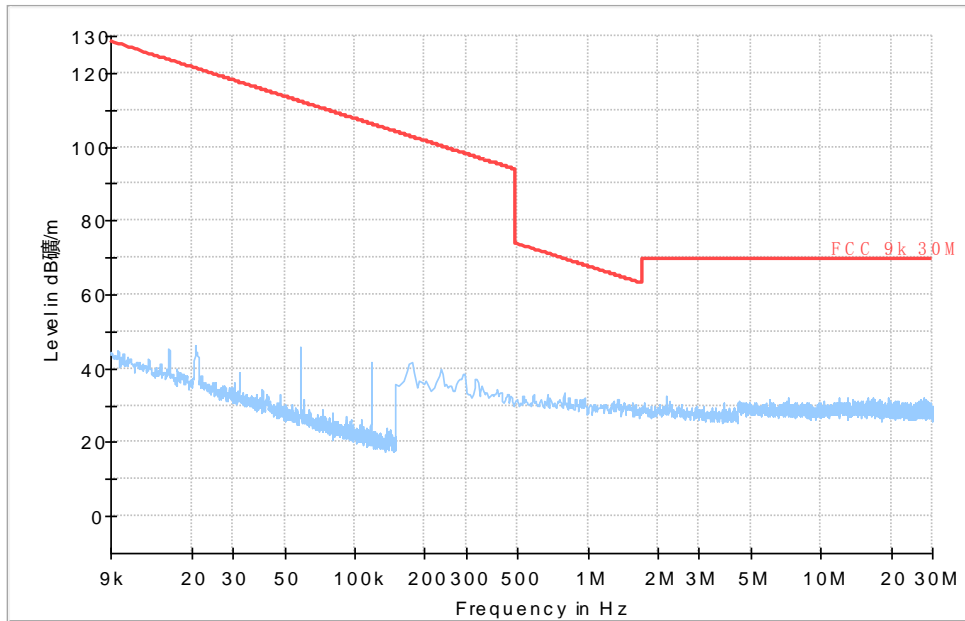


Fig.96 Radiated Spurious Emission (8DPSK, All Channels, 9 kHz-30 MHz)

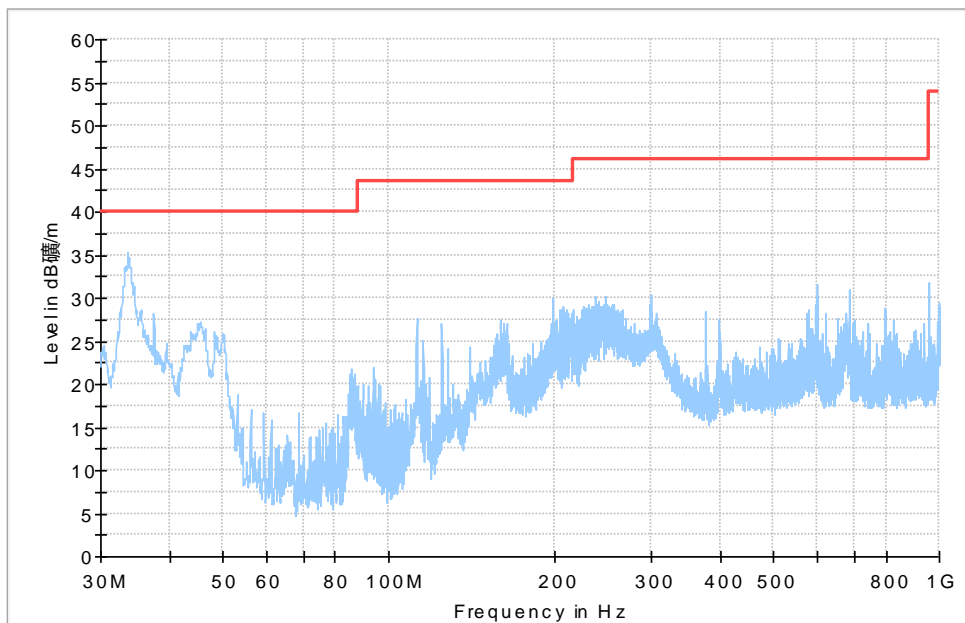
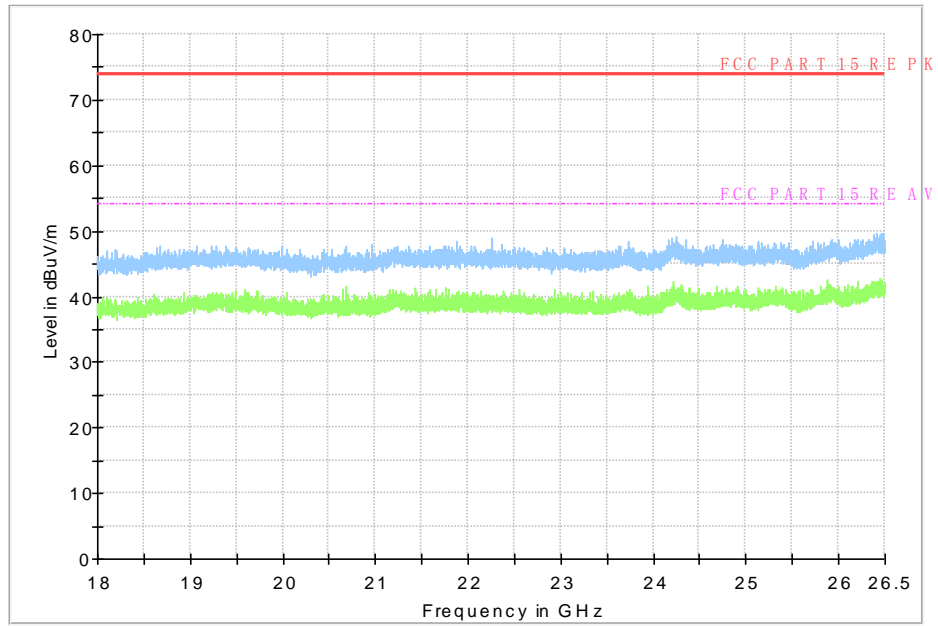


Fig.97 Radiated Spurious Emission (8DPSK, All Channels, 30 MHz ~1 GHz )



**Fig.98 Radiated Spurious Emission (8DPSK, All Channels, 18 GHz~ 26.5 GHz )**

### A.5 20dB Bandwidth

**Measurement Limit:**

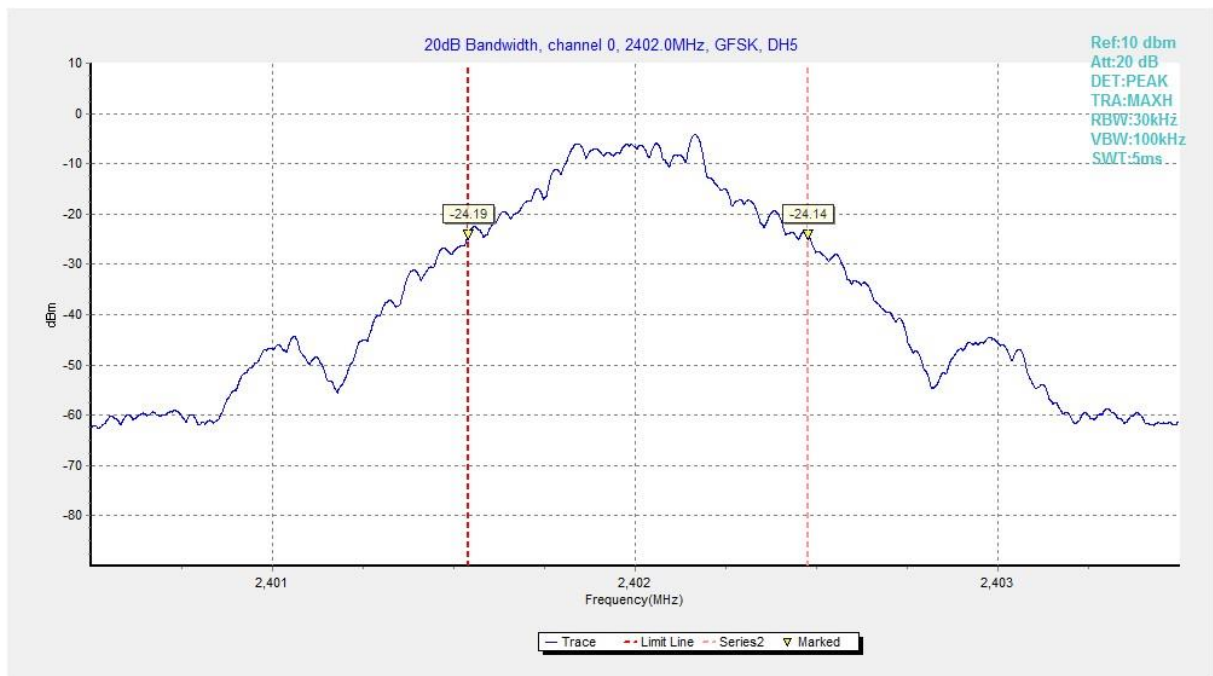
| Standard                   | Limit (kHz) |
|----------------------------|-------------|
| FCC 47 CFR Part 15.247 (a) | /           |

**Measurement Result:**

| Mode          | Channel | 20dB Bandwidth ( KHz) |         | conclusion |
|---------------|---------|-----------------------|---------|------------|
|               |         | Fig.                  | Value   |            |
| GFSK          | 0       | Fig.99                | 936.75  | /          |
|               | 39      | Fig.100               | 937.50  |            |
|               | 78      | Fig.101               | 936.00  |            |
| $\pi/4$ DQPSK | 0       | Fig.102               | 1279.50 | /          |
|               | 39      | Fig.103               | 1281.00 |            |
|               | 78      | Fig.104               | 1281.75 |            |
| 8DPSK         | 0       | Fig.105               | 1262.25 | /          |
|               | 39      | Fig.106               | 1262.25 |            |
|               | 78      | Fig.107               | 1266.00 |            |

See below for test graphs.

**Conclusion: PASS**



**Fig. 99 20dB Bandwidth (GFSK, Ch 0)**

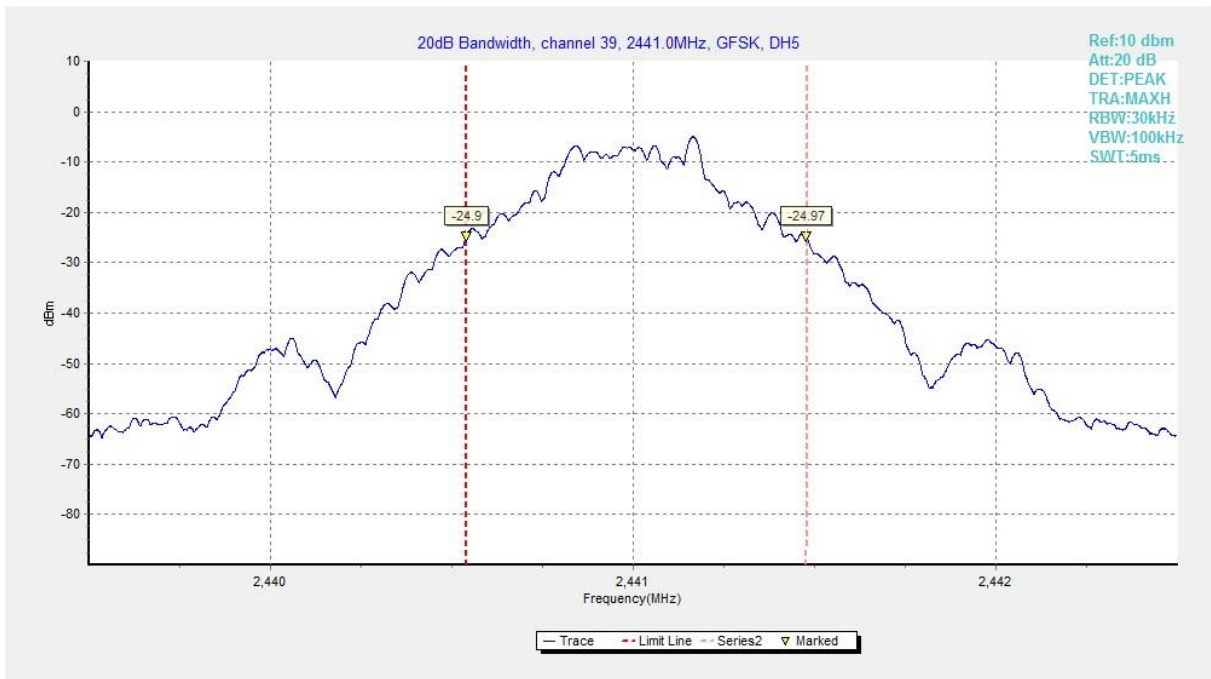


Fig. 100 20dB Bandwidth (GFSK, Ch 39)

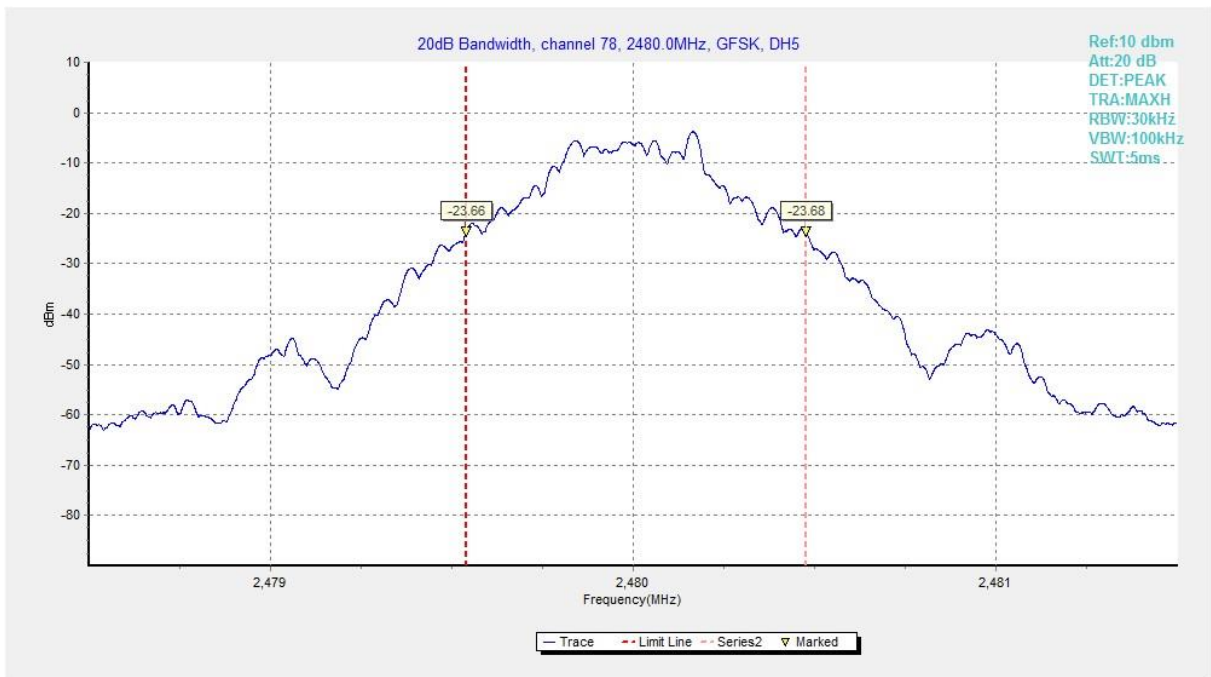


Fig. 101 20dB Bandwidth (GFSK, Ch 78)

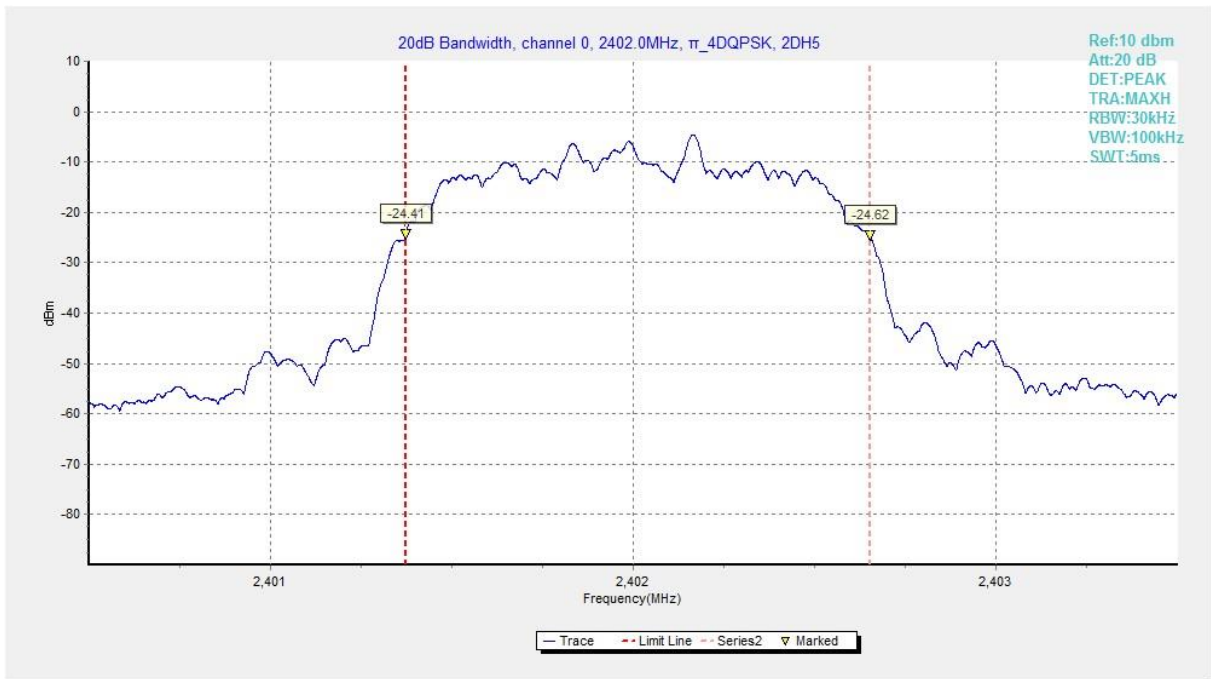


Fig. 102 20dB Bandwidth ( $\pi$ /4 DQPSK, Ch 0)

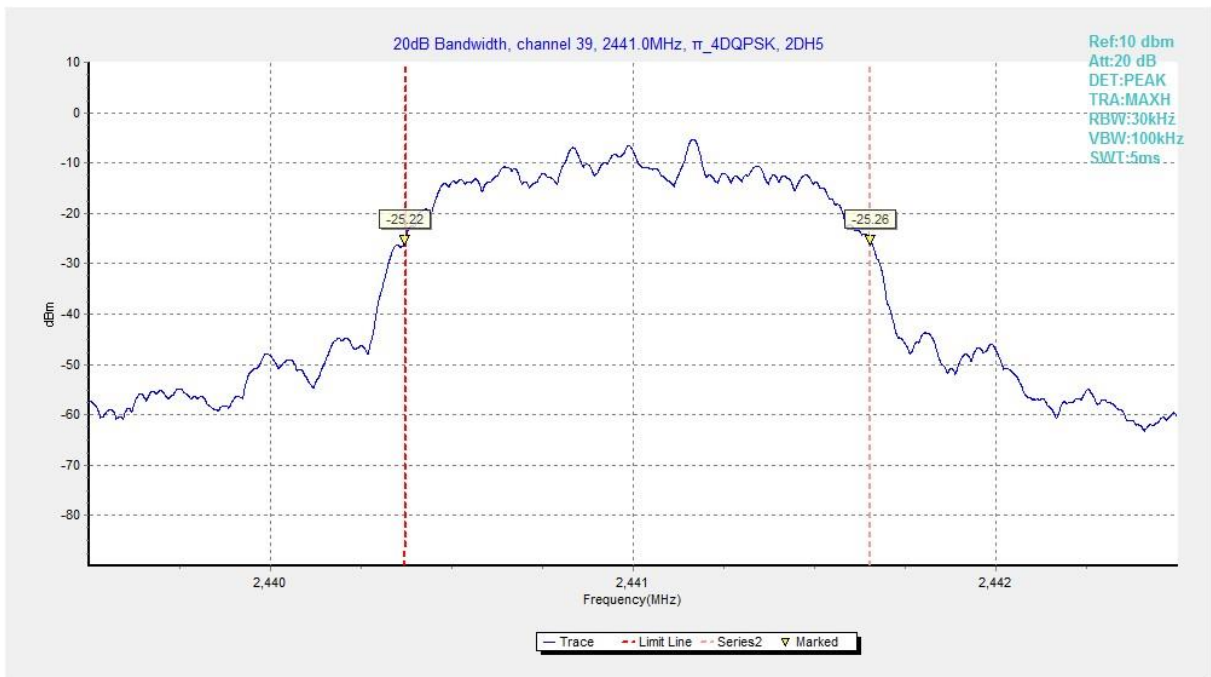


Fig. 103 20dB Bandwidth ( $\pi$ /4 DQPSK, Ch 39)

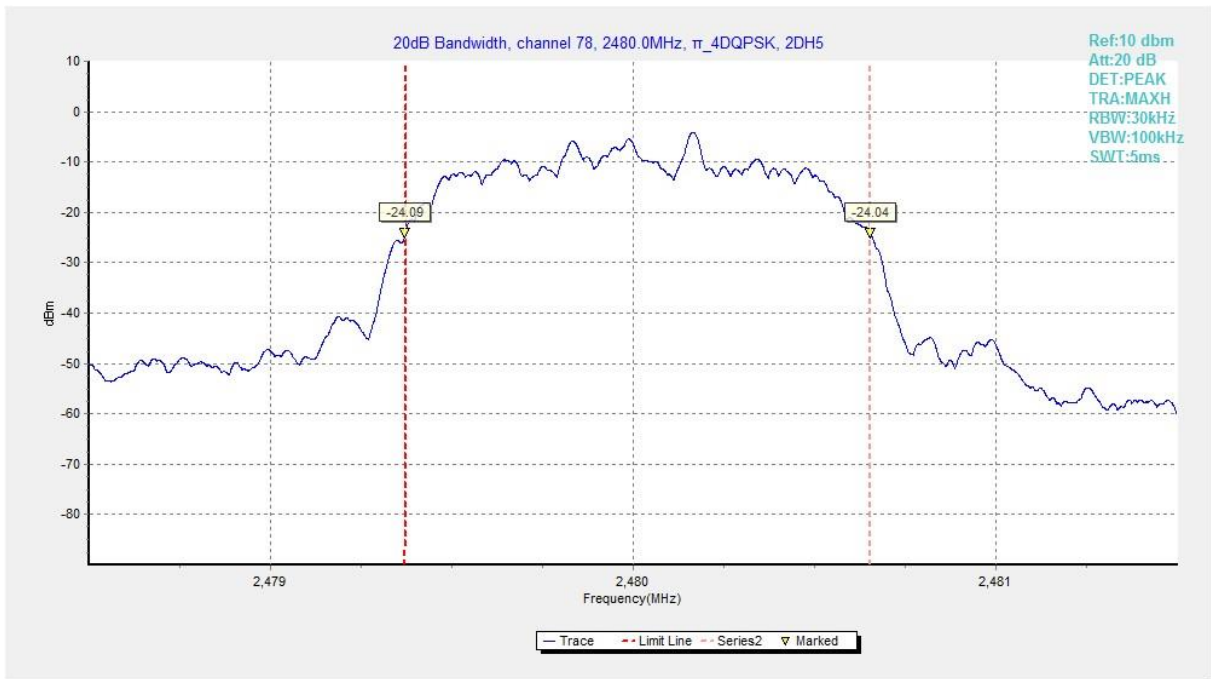


Fig. 104 20dB Bandwidth ( $\pi$  /4 DQPSK, Ch 78)

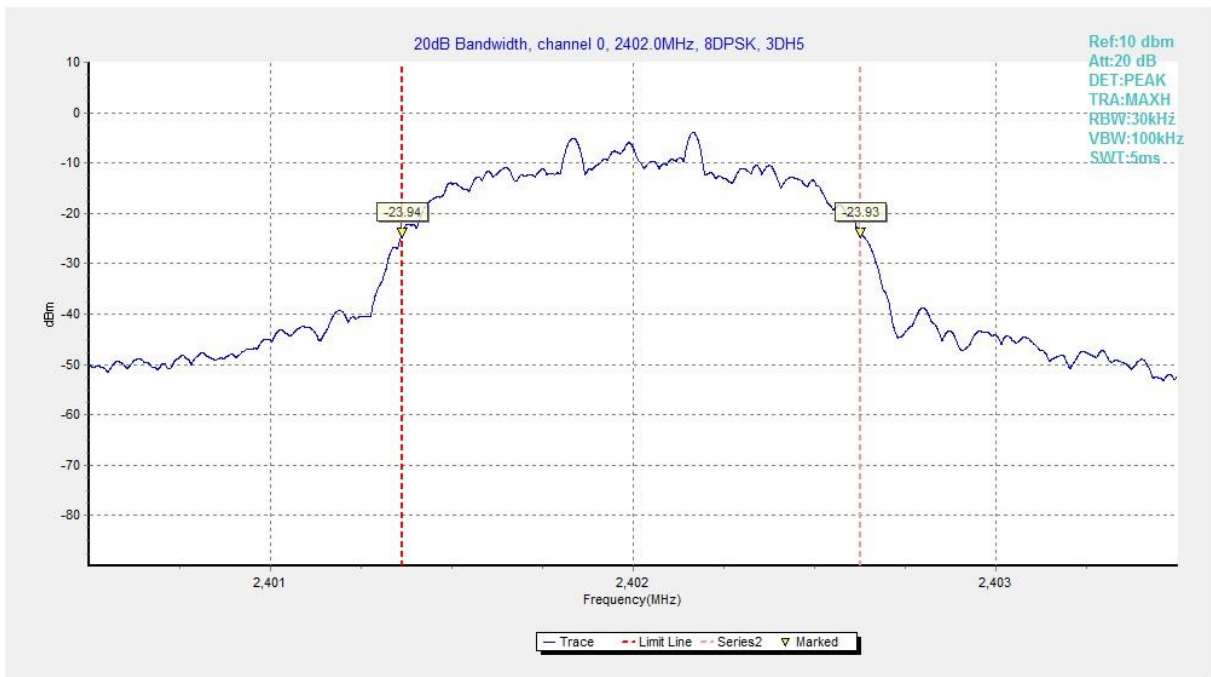


Fig. 105 20dB Bandwidth (8DPSK, Ch 0)

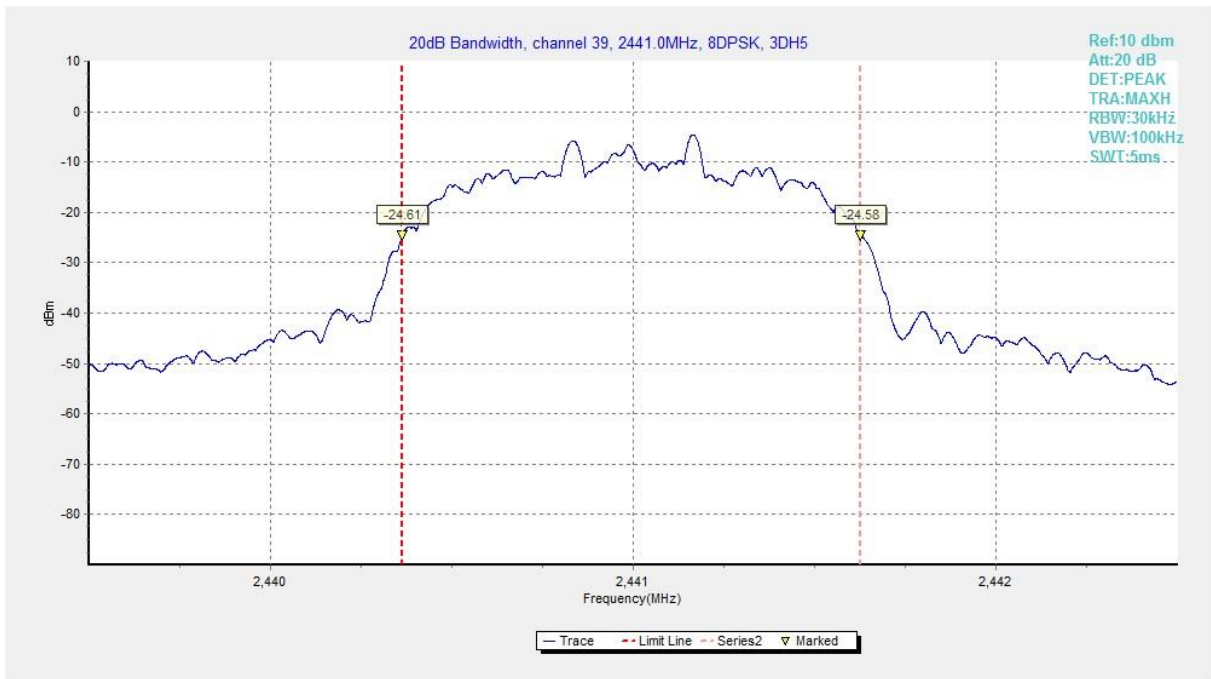


Fig. 106 20dB Bandwidth (8DPSK, Ch 39)

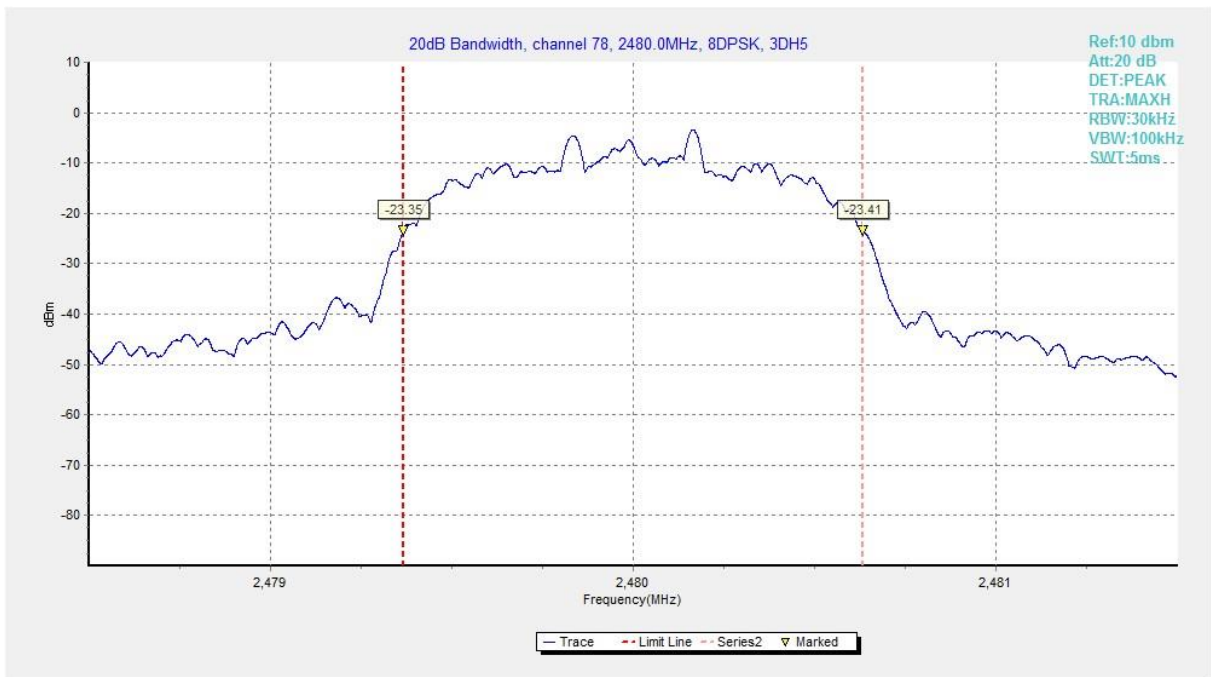


Fig. 107 20dB Bandwidth (8DPSK, Ch 78)

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

### Measurement Limit:

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

### Measurement Results:

| Mode          | Channel | Packet | Dwell Time(ms) |        | Conclusion |
|---------------|---------|--------|----------------|--------|------------|
| GFSK          | 39      | DH5    | Fig.108        | 307.91 | <b>P</b>   |
|               |         |        | Fig.109        |        |            |
| $\pi/4$ DQPSK | 39      | 2-DH5  | Fig.110        | 308.11 | <b>P</b>   |
|               |         |        | Fig.111        |        |            |
| 8DPSK         | 39      | 3-DH5  | Fig.112        | 306.73 | <b>P</b>   |
|               |         |        | Fig.113        |        |            |

See below for test graphs.

**Conclusion: Pass**



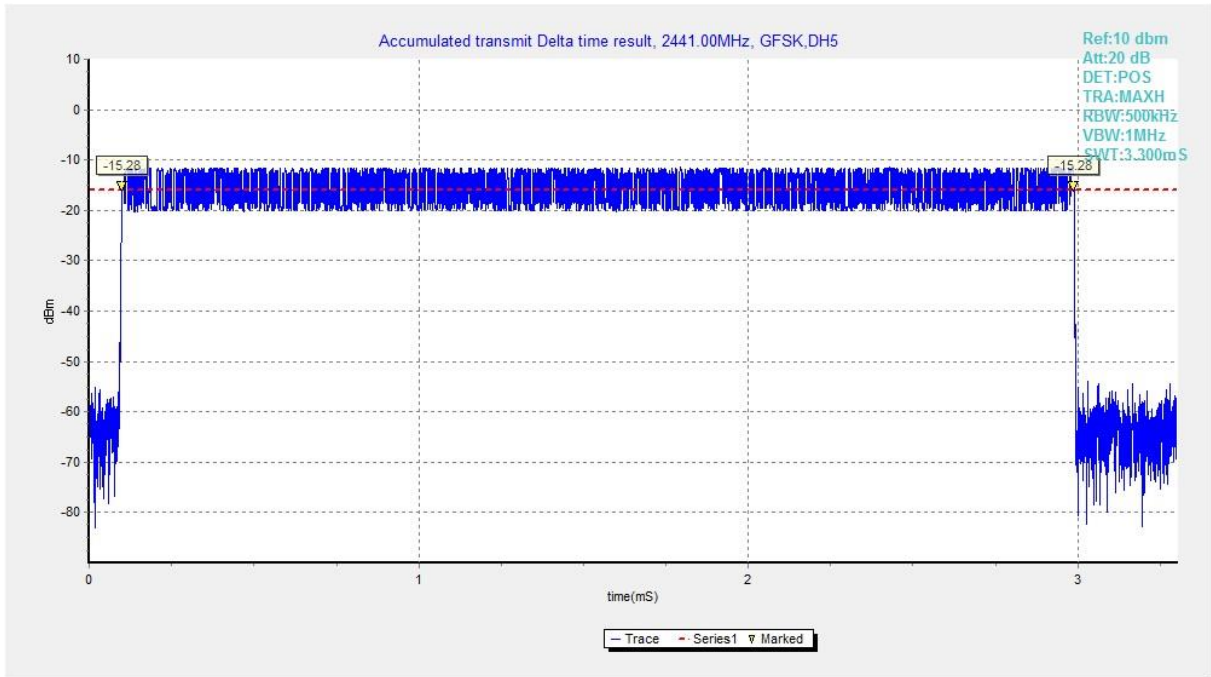


Fig. 108 Time of Occupancy(Dwell Time) (GFSK, Ch39)

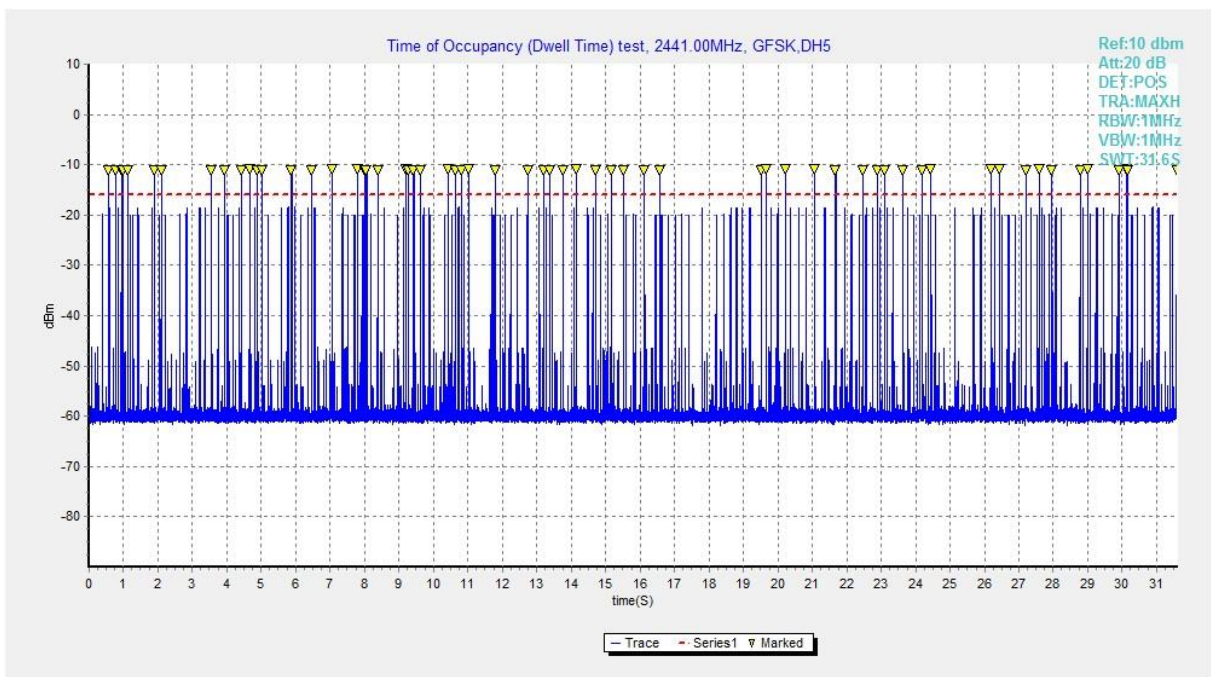


Fig. 109 Time of Occupancy(Dwell Time) (GFSK, Ch39)