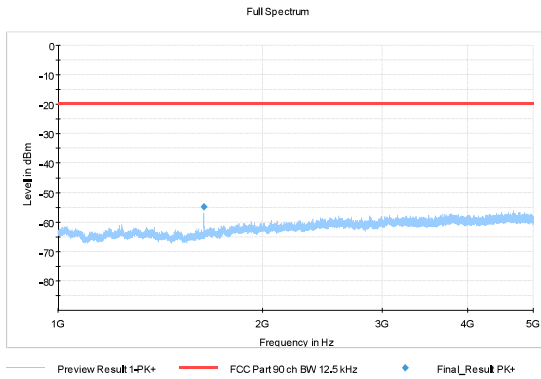
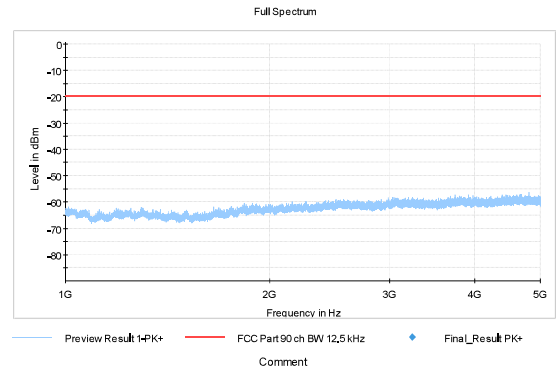


## Spurious emissions (radiated) 9 kHz – 5 GHz

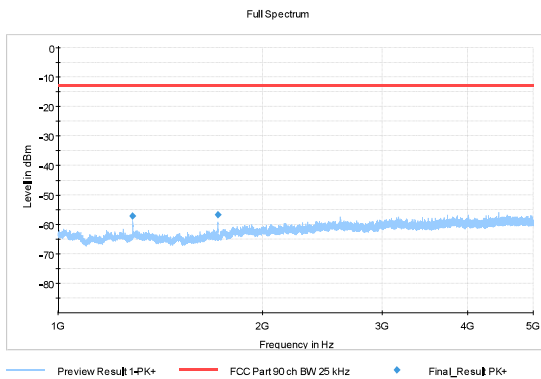
### 1 GHz – 5 GHz



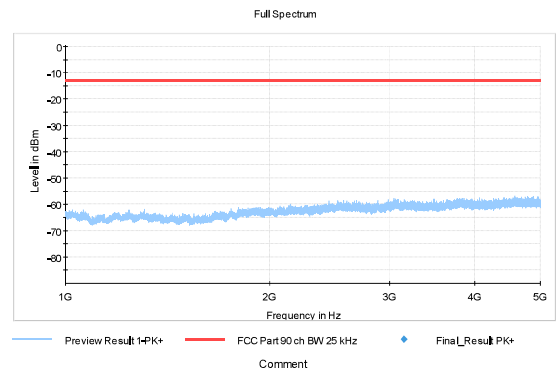
**Figure 188:** TX 410.0 MHz, 12.5 kHz, 4FSK



**Figure 189:** RX 410.0 MHz, 12.5 kHz, 4FSK

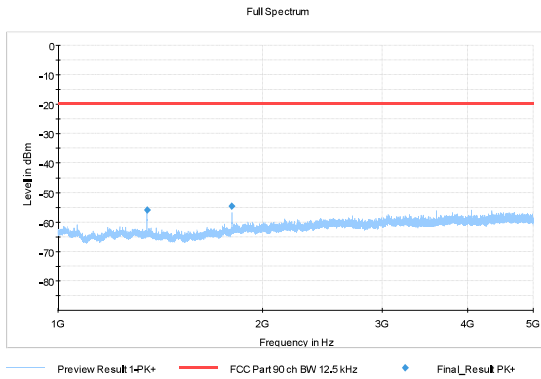


**Figure 190:** TX 429.5 MHz, 25 kHz, 4FSK

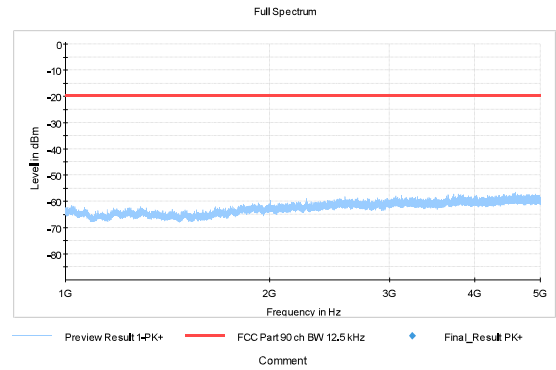


**Figure 191:** RX 429.5 MHz, 25 kHz, 4FSK

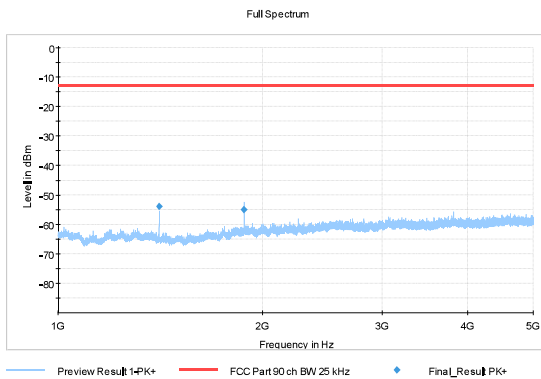
**Spurious emissions (radiated) 9 kHz – 5 GHz**



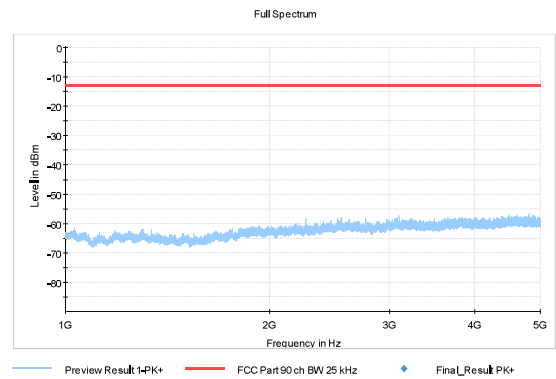
**Figure 192: TX 450.5 MHz, 12.5 kHz, GMSK**



**Figure 193: RX 450.5 MHz, 12.5 kHz, GMSK**



**Figure 194: TX 469.5 MHz, 25 kHz, GMSK**



**Figure 195: RX 469.5 MHz, 25 kHz, GMSK**

**Spurious emissions (radiated) 9 kHz – 5 GHz**
**Test results, GMSK modulation (13, 16 November 2020)**
**Table 18:** Spurious emissions (radiated) QuasiPeak results

| Frequency (MHz) | QuasiPeak (dBm) | Limit (dBm) | Margin (dB) | Settings                  |
|-----------------|-----------------|-------------|-------------|---------------------------|
| 0.021450        | -56.43          | -20.00      | 36.43       | TX LOW 12.5 kHz 8000 bps  |
| 76.819000       | -84.79          | -20.00      | 64.79       | TX MID2 12.5 kHz 9600 bps |
| 84.205000       | -88.85          | -20.00      | 68.85       | TX MID2 12.5 kHz 9600 bps |
| 93.705500       | -92.52          | -20.00      | 72.52       | TX MID2 12.5 kHz 9600 bps |
| 409.997500      | -42.91          | *)          | -           | TX LOW 25 kHz 19200 bps   |
| 429.494500      | -37.81          | *)          | -           | TX MID1 12.5 kHz 8000 bps |
| 450.495000      | -43.55          | *)          | -           | TX MID2 12.5 kHz 9600 bps |
| 469.507000      | -40.07          | *)          | -           | TX HIGH 25 kHz 4800 bps   |
| 938.987000      | -63.42          | -13.00      | 50.42       | TX HIGH 25 kHz 4800 bps   |

\*) Transmitter fundamental frequency

**Table 19:** Spurious emissions (radiated) QuasiPeak result details

| Frequency (MHz) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Settings                  |
|-----------------|-----------------|-----------------|-------------|-----|---------------|------------|---------------------------|
| 0.021450        | 1000.0          | 0.200           | 0.0 *)      | V   | 6.0           | -79.8      | TX LOW 12.5 kHz 8000 bps  |
| 76.819000       | 1000.0          | 120.000         | 100.0       | V   | 18.0          | -85.4      | TX MID2 12.5 kHz 9600 bps |
| 84.205000       | 1000.0          | 120.000         | 135.0       | V   | 36.0          | -87.4      | TX MID2 12.5 kHz 9600 bps |
| 93.705500       | 1000.0          | 120.000         | 201.0       | V   | 21.0          | -86.9      | TX MID2 12.5 kHz 9600 bps |
| 409.997500      | 1000.0          | 120.000         | 100.0       | H   | 357.0         | -77.4      | TX LOW 25 kHz 19200 bps   |
| 429.494500      | 1000.0          | 120.000         | 122.0       | V   | 18.0          | -76.4      | TX MID1 12.5 kHz 8000 bps |
| 450.495000      | 1000.0          | 120.000         | 109.0       | V   | 194.0         | -76.0      | TX MID2 12.5 kHz 9600 bps |
| 469.507000      | 1000.0          | 120.000         | 187.0       | H   | 4.0           | -75.7      | TX HIGH 25 kHz 4800 bps   |
| 938.987000      | 1000.0          | 120.000         | 148.0       | H   | 43.0          | -67.7      | TX HIGH 25 kHz 4800 bps   |

\*) Loop antenna position 0.0°

Correction factor (dB) in the final result tables contains the sum of the attenuations of the system. (Antenna + cables). QuasiPeak measured values include the correction factor.