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Subject: FCC Equipment Authorization System

Regarding your answer to question 4 we did not find the requested 0 span plots used when measuring peak power. If a spectrum analyzer was not used please provide the equivalent information.

PMF was done using power meter as defined in SPEAGs Application Note "Definition / Determination of the Probe Modulation Factor" instead of spectrum analyzer. Both Rohde&Schwarz Power Meter NRVS and Power Sensor NRV-Z32 are calibrated in 12 months cycles as stated in test report. Peak power output was measured for both CW and GSM-modulated signals from dipole feeding point and signal generator output was tuned to give the same 100mW at feeding point when measured with peak detector in both cases.

NRV-Z32 is a diode sensor capable of measuring Peak Envelope Power of modulated GSM signal during signal peaks of 2 μ s to 100 ms duration. Comparing this to spectrum analyzer, this satisfies $VBW \geq 20\text{kHz}$ (or $< 50 \mu\text{s}$) requirement with great margin. Also as peak detection is done from Peak Envelope Power, output is similar to spectrum analyzer zero span with peak detector configuration. There is no direct analogue to averaging times or peak vs. average as used sensor is designed to detect only the peak power of GSM modulated signal during burst.