

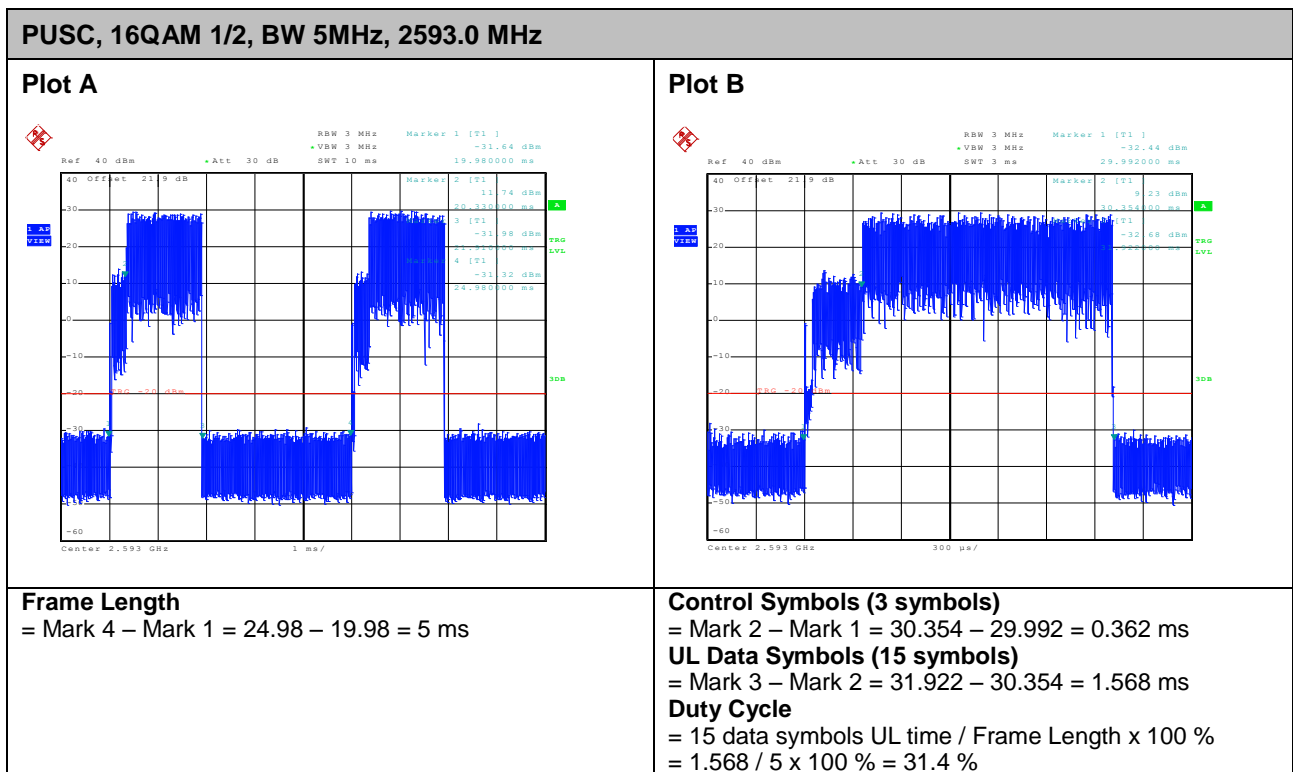


Appendix E. Plots of Duty Cycle

The plot below shows the waveform characteristics of the signal used in the SAR measurement. The pulse duration corresponds to a DL:UL symbol ratio of 29:18 and control symbols are not active.

The time vector plots are shown as below. The plot A is used to get the frame length of test signal and the plot B is used to get the time of UL data symbols. Since there was no energy in the control symbols, the effective power is only across 15 data symbols. The calculation of duty cycle is as below:

Duty Cycle = 15 data symbols UL time / Frame Length x 100 %





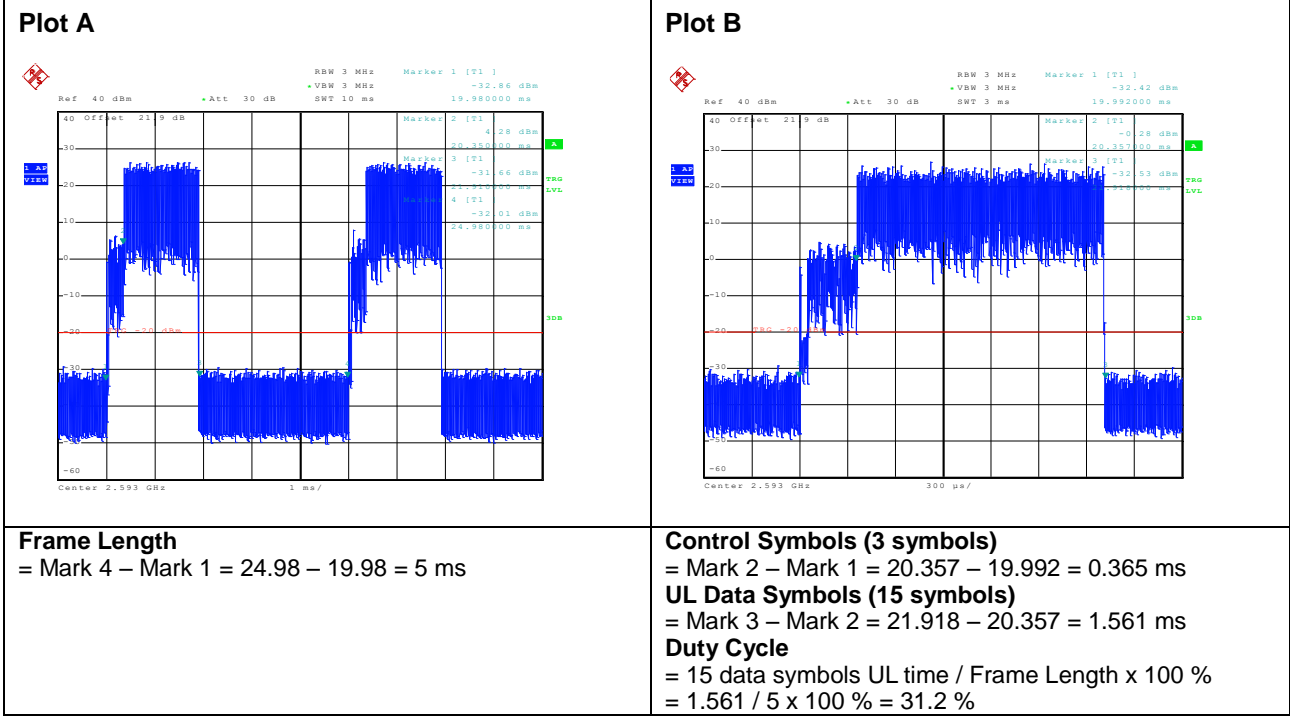
PUSC, 16QAM 1/2, BW 10MHz, 2593.0 MHz

<p>Plot A</p>	<p>Plot B</p>
<p>Frame Length = Mark 4 – Mark 1 = 24.98 – 19.98 = 5 ms</p>	<p>Control Symbols (3 symbols) = Mark 2 – Mark 1 = 20.357 – 19.992 = 0.365 ms UL Data Symbols (15 symbols) = Mark 3 – Mark 2 = 21.918 – 20.357 = 1.561 ms Duty Cycle = 15 data symbols UL time / Frame Length x 100 % = 1.561 / 5 x 100 % = 31.2 %</p>

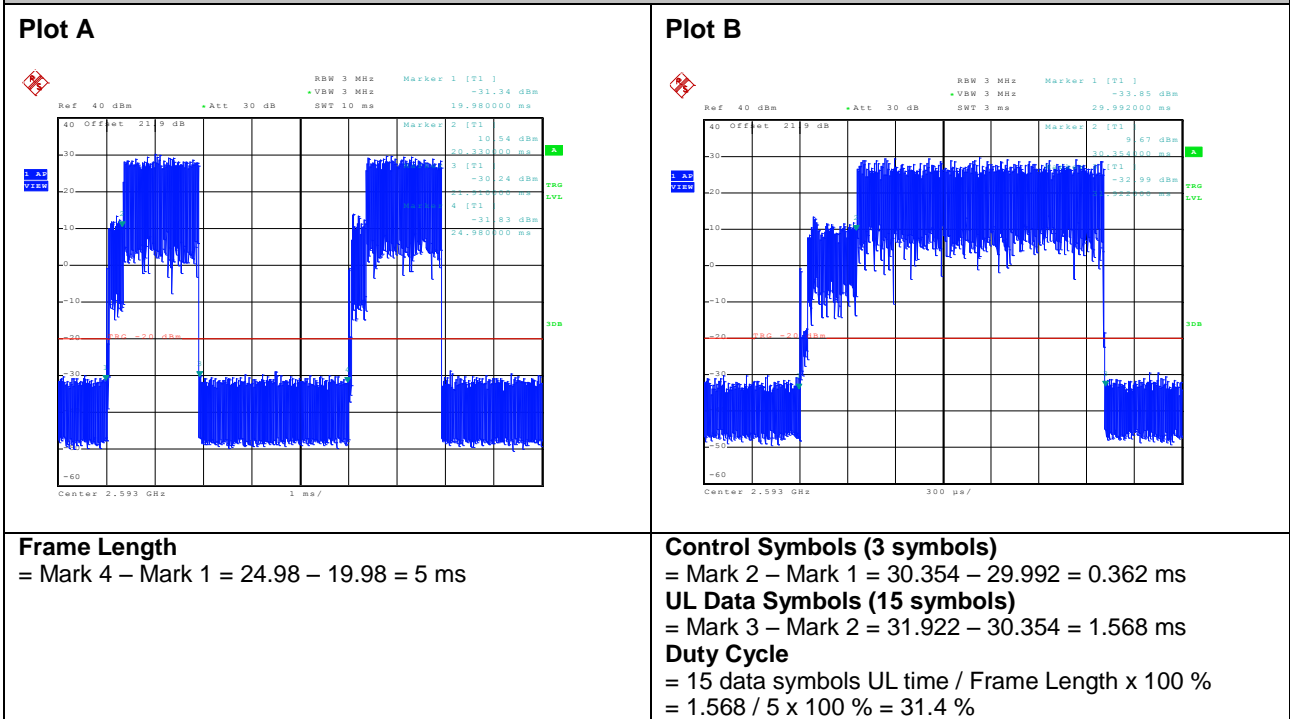
PUSC, 16QAM 3/4, BW 5MHz, 2593.0 MHz

<p>Plot A</p>	<p>Plot B</p>
<p>Frame Length = Mark 4 – Mark 1 = 24.98 – 19.98 = 5 ms</p>	<p>Control Symbols (3 symbols) = Mark 2 – Mark 1 = 30.354 – 29.992 = 0.362 ms UL Data Symbols (15 symbols) = Mark 3 – Mark 2 = 31.922 – 30.354 = 1.568 ms Duty Cycle = 15 data symbols UL time / Frame Length x 100 % = 1.568 / 5 x 100 % = 31.4 %</p>

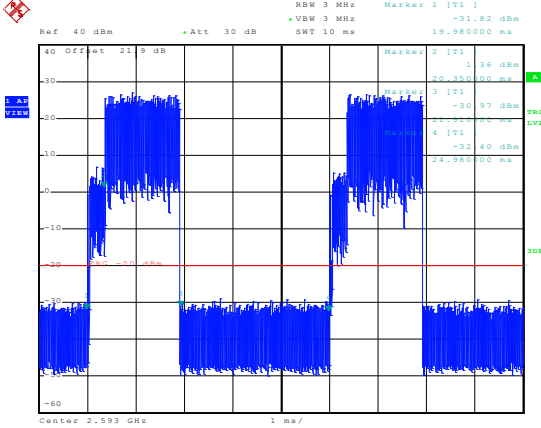
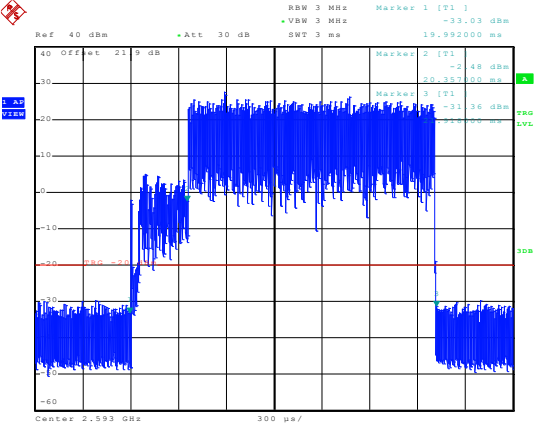
PUSC, 16QAM 3/4, BW 10MHz, 2593.0 MHz



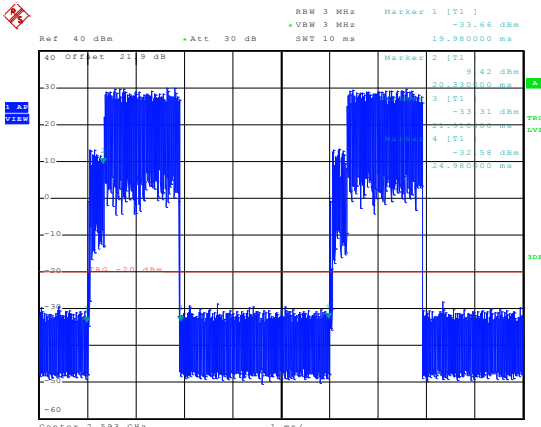
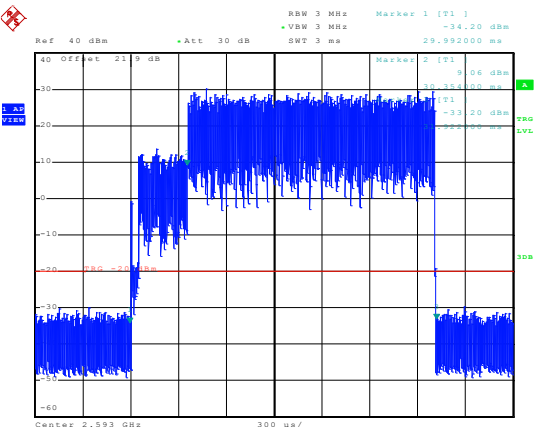
PUSC, QPSK 1/2, BW 5MHz, 2593.0 MHz



PUSC, QPSK 1/2, BW 10MHz, 2593.0 MHz

Plot A	Plot B
	
<p>Frame Length = Mark 4 – Mark 1 = 24.98 – 19.98 = 5 ms</p>	<p>Control Symbols (3 symbols) = Mark 2 – Mark 1 = 20.357 – 19.992 = 0.365 ms UL Data Symbols (15 symbols) = Mark 3 – Mark 2 = 21.918 – 20.357 = 1.561 ms Duty Cycle = 15 data symbols UL time / Frame Length x 100 % = 1.561 / 5 x 100 % = 31.2 %</p>

PUSC, QPSK 3/4, BW 5MHz, 2593.0 MHz

Plot A	Plot B
	
<p>Frame Length = Mark 4 – Mark 1 = 24.98 – 19.98 = 5 ms</p>	<p>Control Symbols (3 symbols) = Mark 2 – Mark 1 = 30.354 – 29.992 = 0.362 ms UL Data Symbols (15 symbols) = Mark 3 – Mark 2 = 31.922 – 30.354 = 1.568 ms Duty Cycle = 15 data symbols UL time / Frame Length x 100 % = 1.568 / 5 x 100 % = 31.4 %</p>

