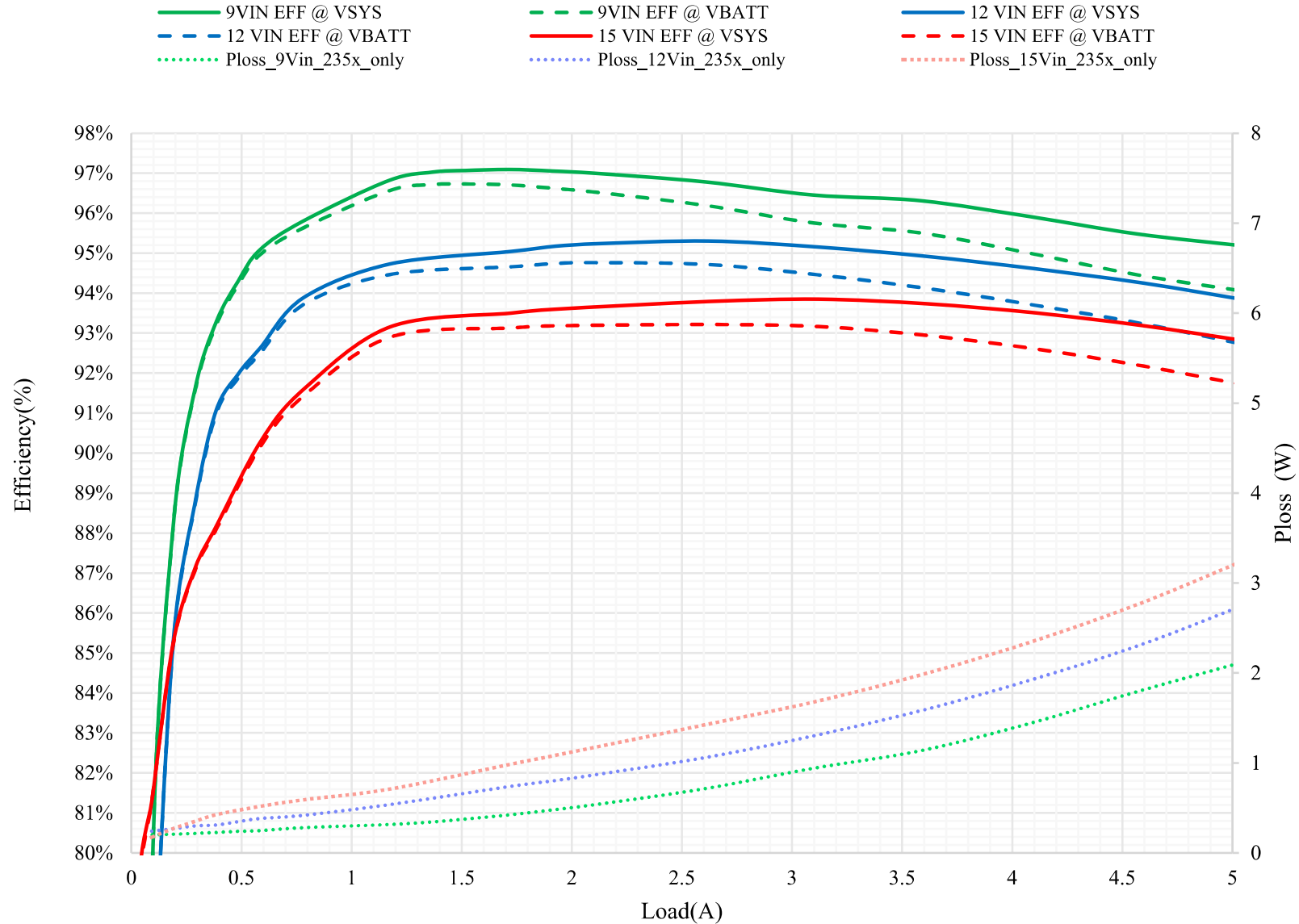


Section 1.5

Efficiency

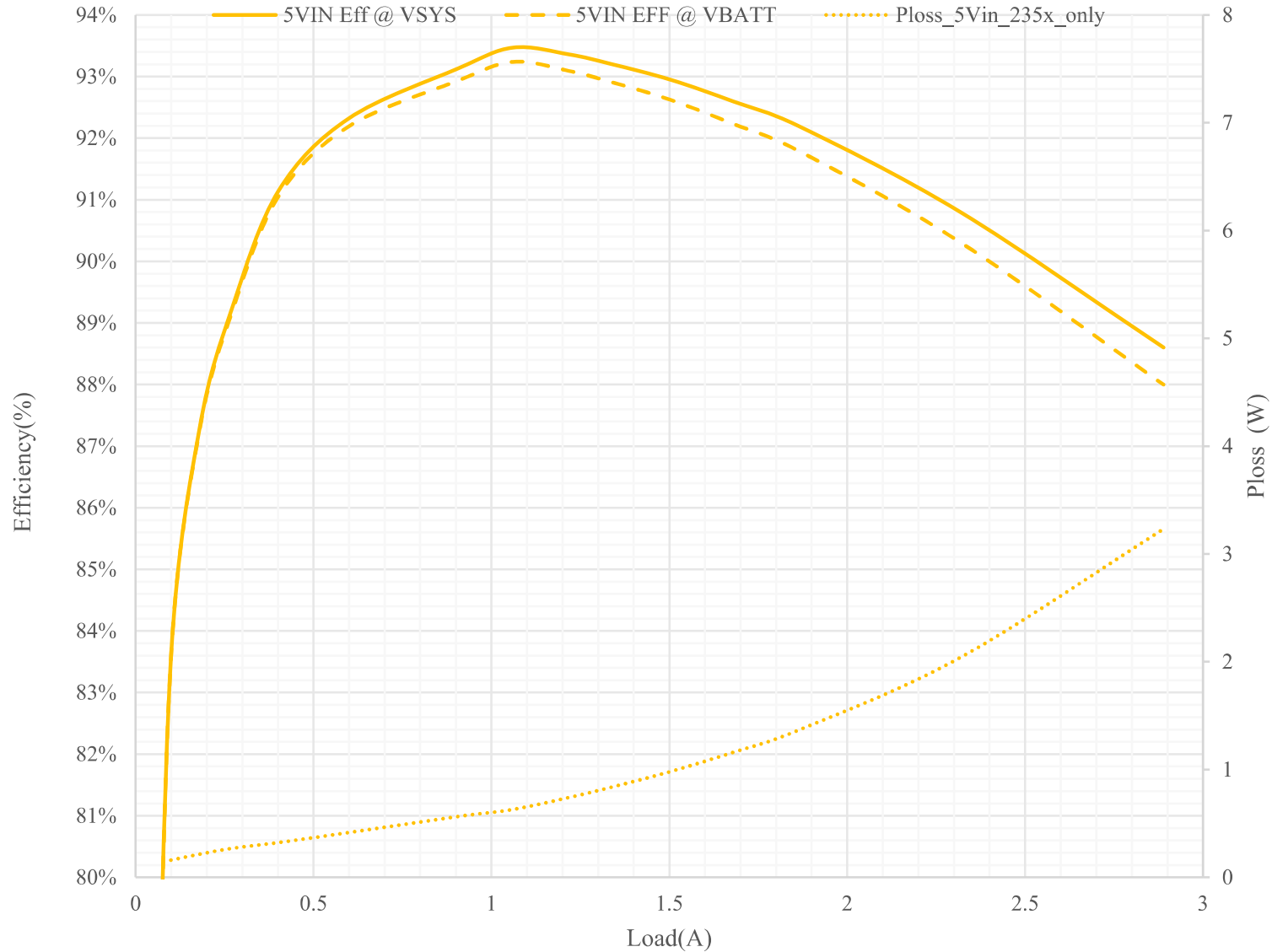
Efficiency in Buck Mode at USBIN = 9 V/12 V/15 V

SMB235x Efficiency(%) in Buck Mode vs. Load(A)
at Vsys (solid) and Vbatt (dash)
L = 1uH (3.2*2.5*1.2 mm), Fsw = 1 MHz, Vbatt = 8.2V



Efficiency in Boost Mode at USBIN = 5 V

SMB235x Efficiency(%) in Buck Mode vs. Load(A)
at Vsys (solid) and Vbatt (dash)
L = 1uH (3.2*2.5*1.2 mm), Fsw = 1 MHz, Vbatt = 8.2V



Efficiency in Programmable Power Source Mode

SMB235x Source Efficiency: CV Mode
 $L = 1\mu\text{H}$ (3.2*2.5*1.2 mm), $F_{\text{sw}} = 800\text{ KHz}$, $V_{\text{batt}} = 7.8\text{V}$

