

MRF183S LDMOS Device

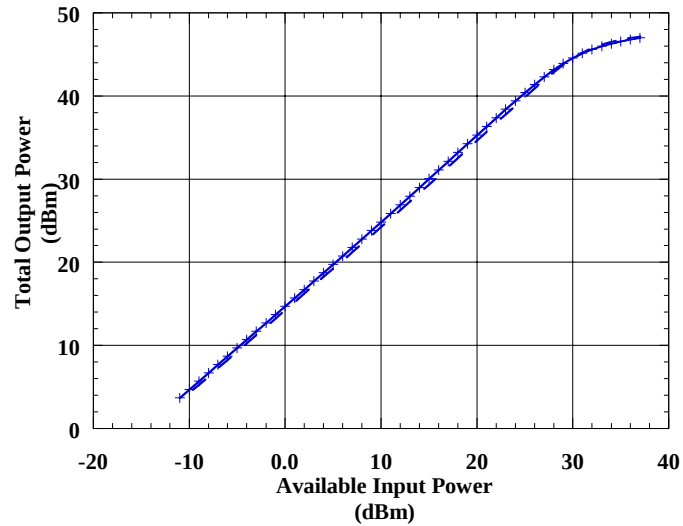
Number of fingers: 56, Periphery: 5.04 mm x 24 cells

Frequency: 1 GHz, $V_{DS}=28$ v & $I_{DS}=2.0$ mA/mm

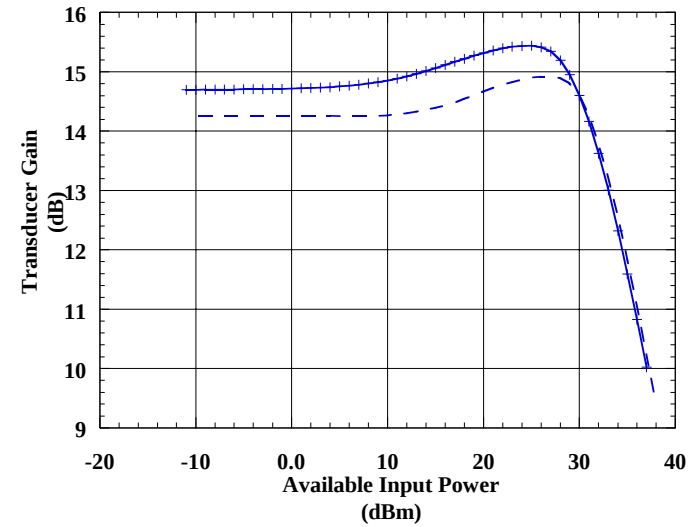
Tuned for Max Efficiency

Simulated (plus) and Average of Three Measured (dashes)

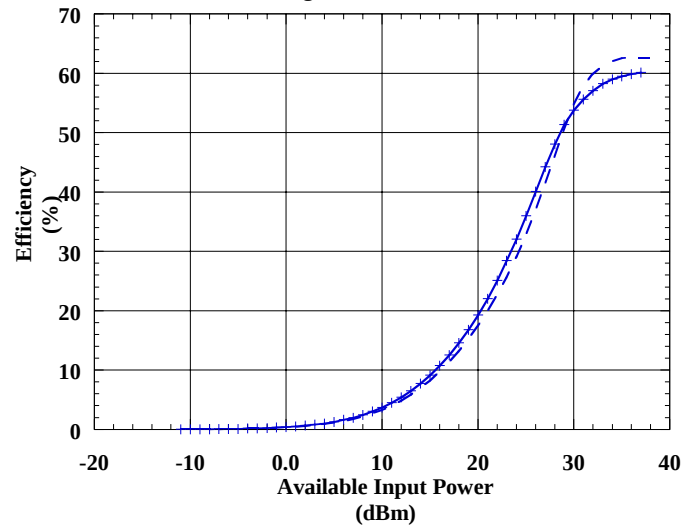
Total Output Power vs. Available Input Power
Single Tone Excitation



Transducer Gain vs. Available Input Power
Single Tone Excitation



Drain Efficiency vs. Available Input Power
Single Tone Excitation



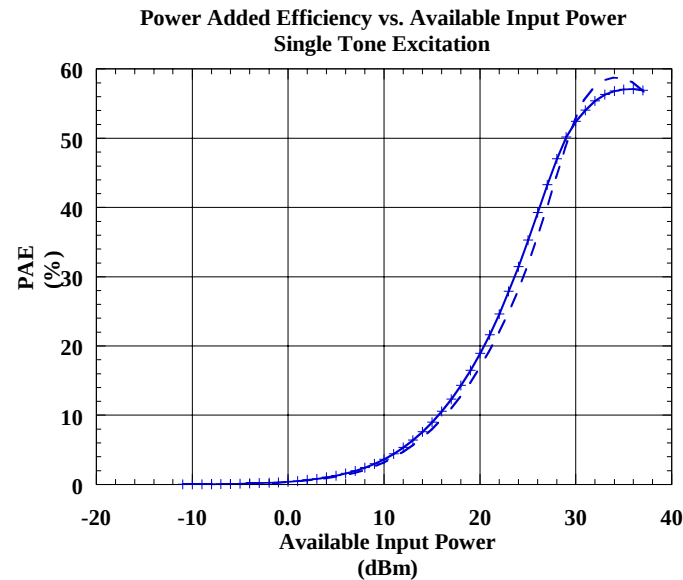
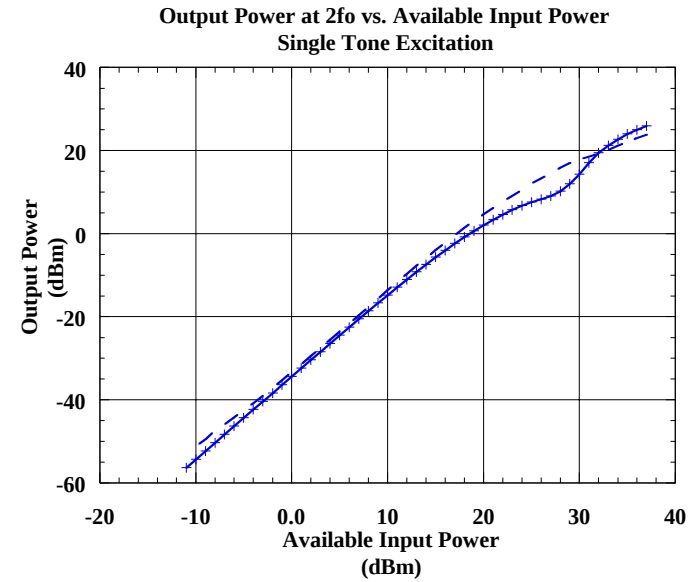
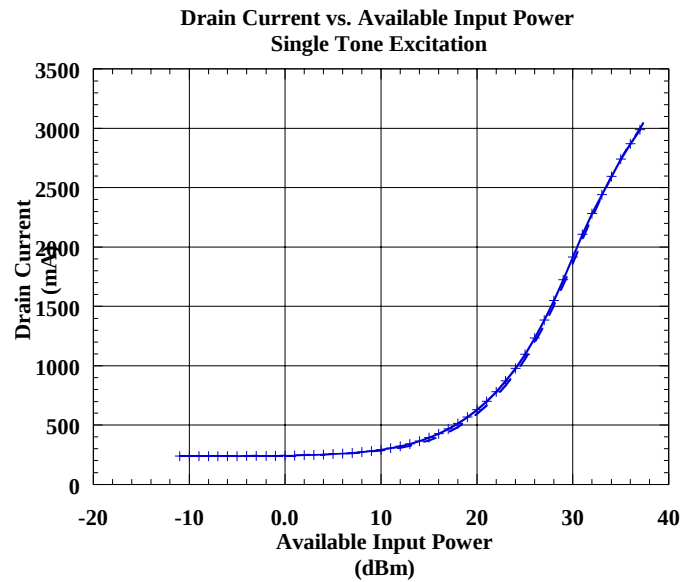
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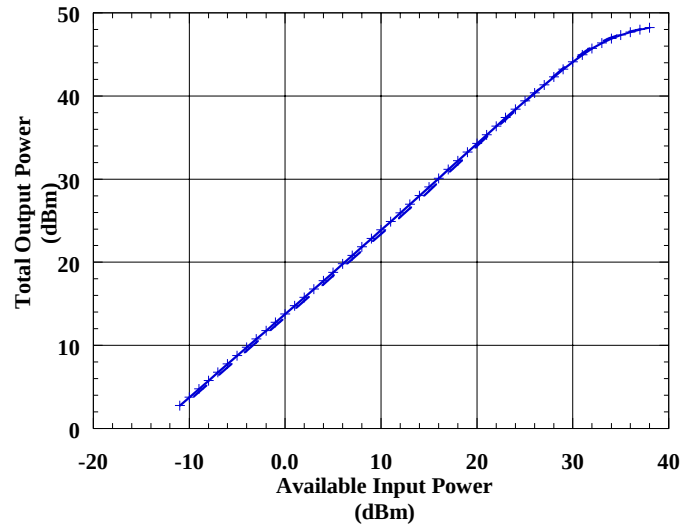
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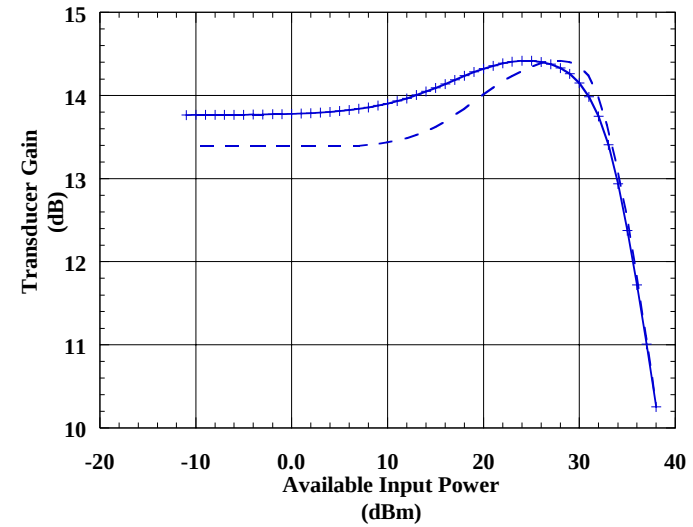
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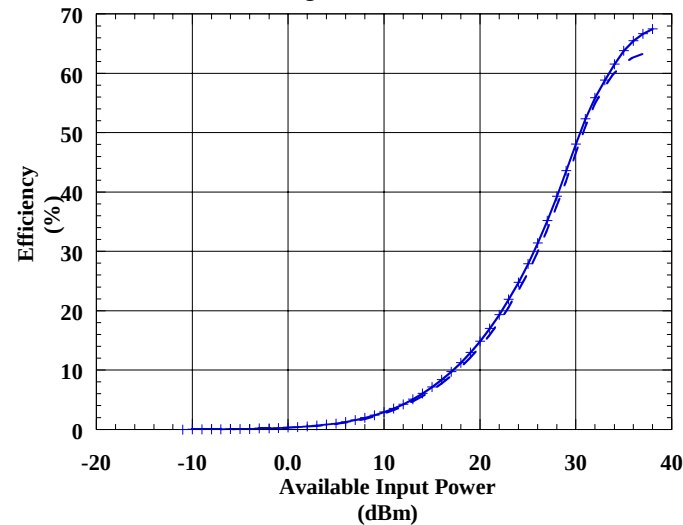
**Total Output Power vs. Available Input Power
Single Tone Excitation**



**Transducer Gain vs. Available Input Power
Single Tone Excitation**



**Drain Efficiency vs. Available Input Power
Single Tone Excitation**



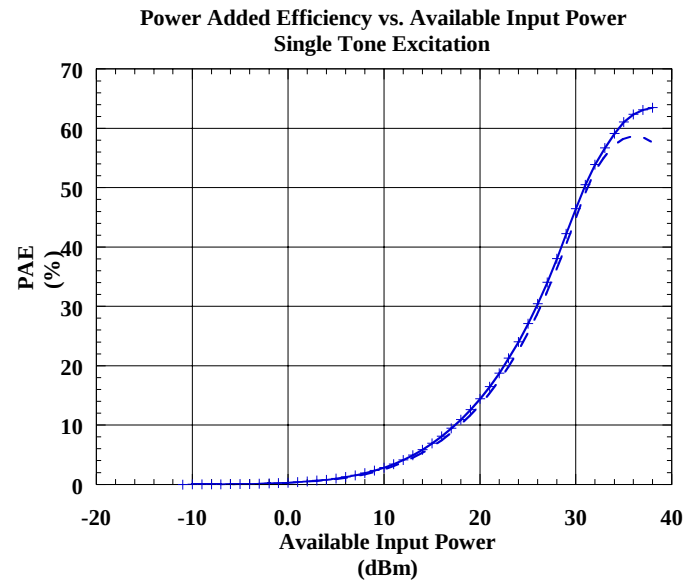
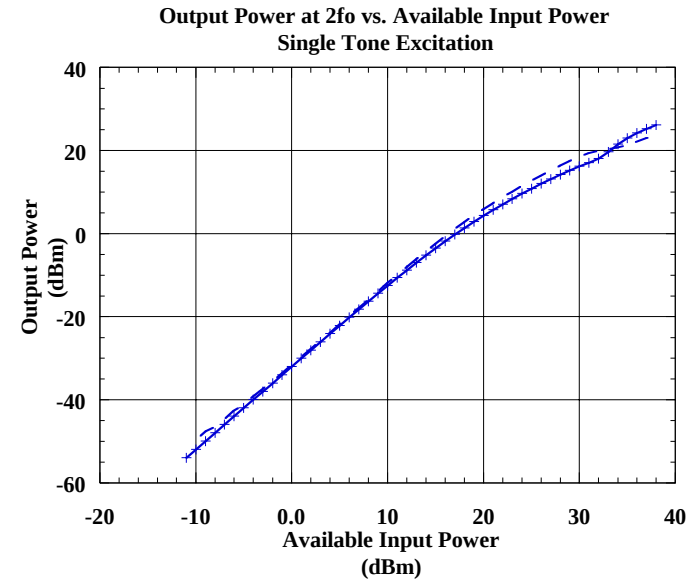
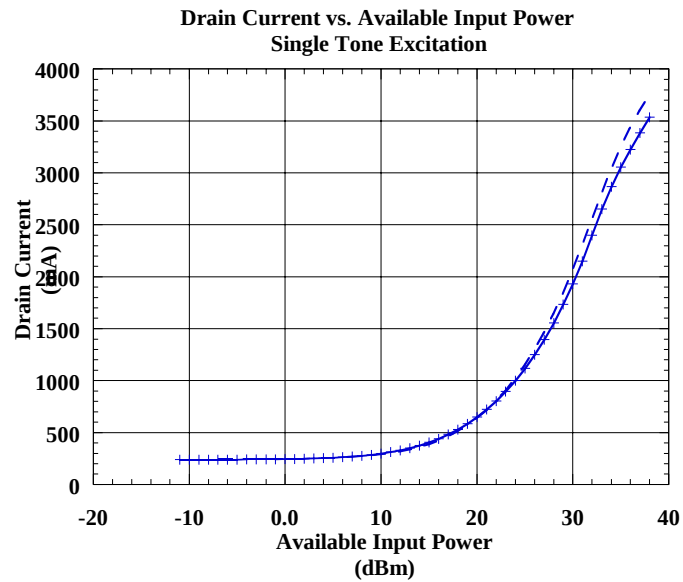
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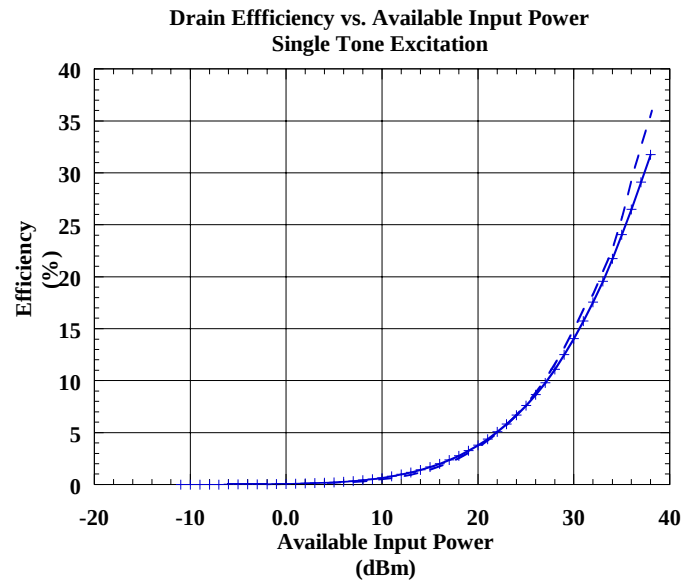
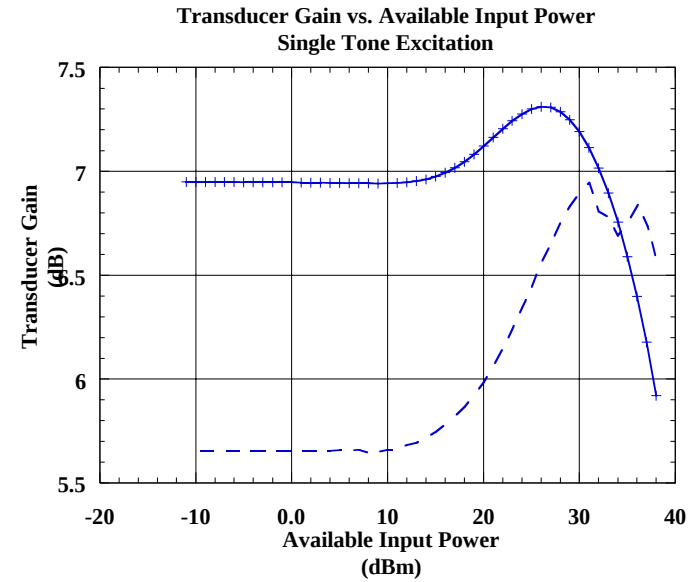
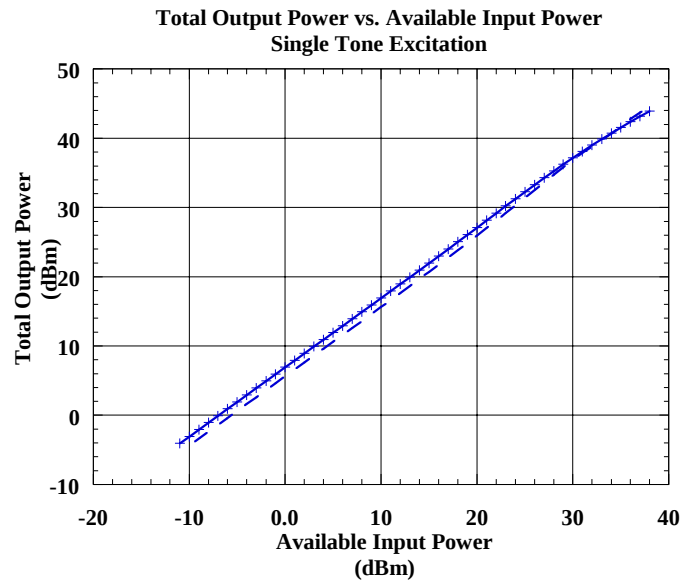
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4.5 Ohm Termination

Simulated (plus) and Average of Three Measured (dashes)





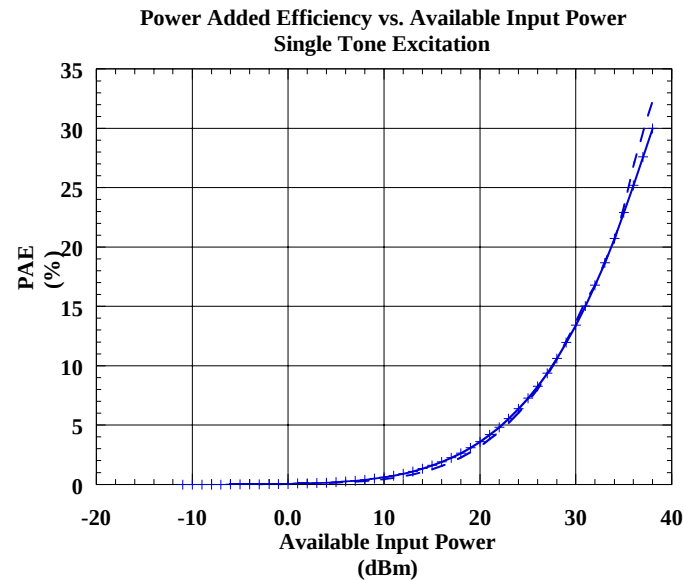
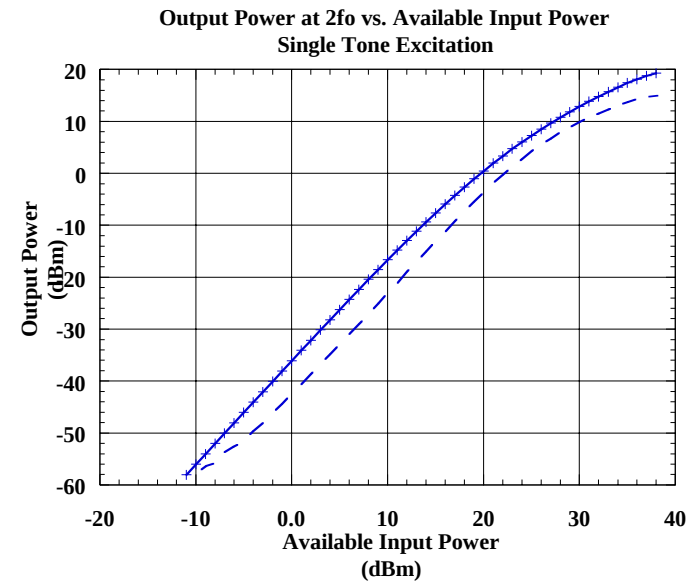
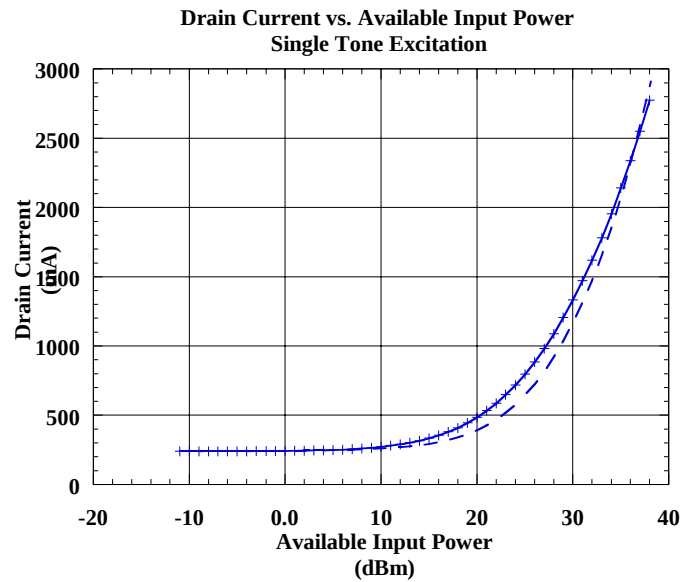
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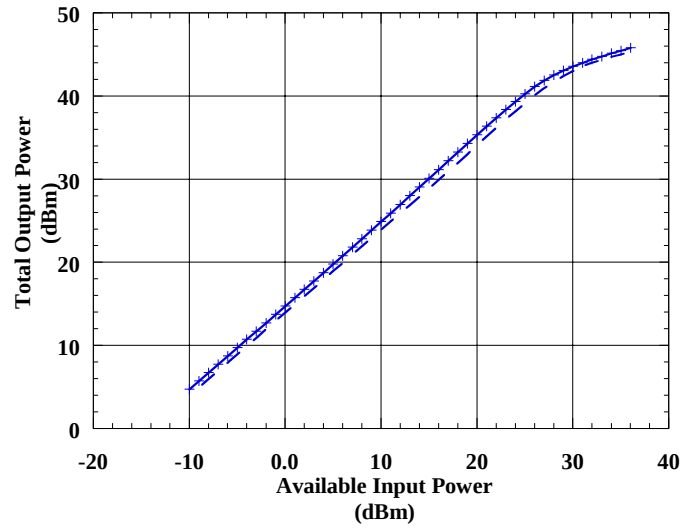
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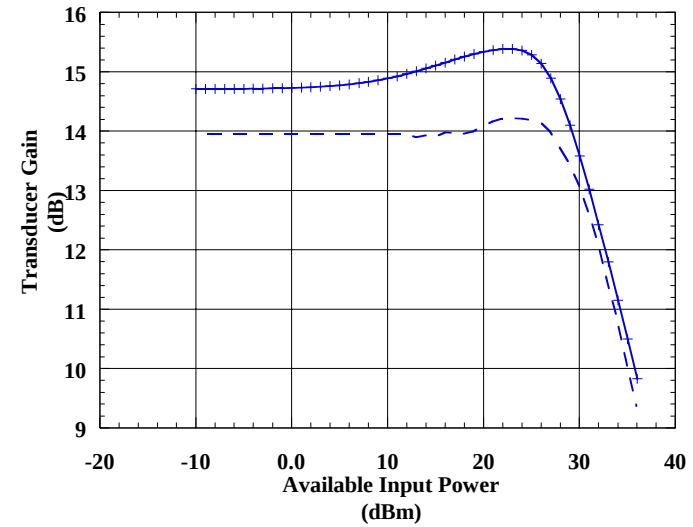
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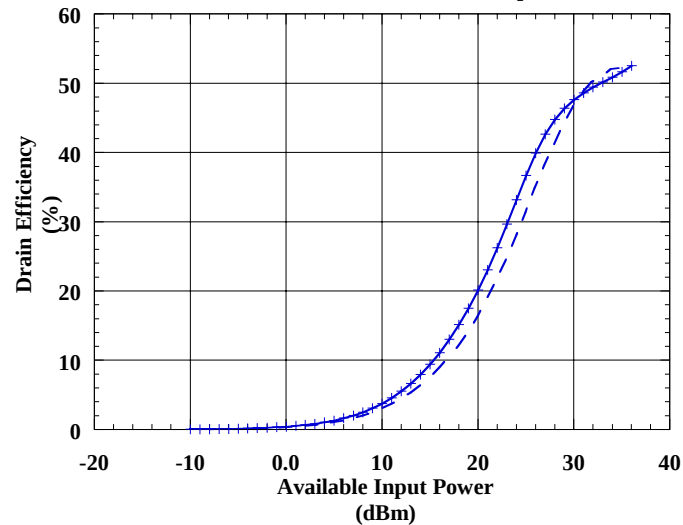
Total Output Power vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



Transducer Gain vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



Drain Efficiency vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



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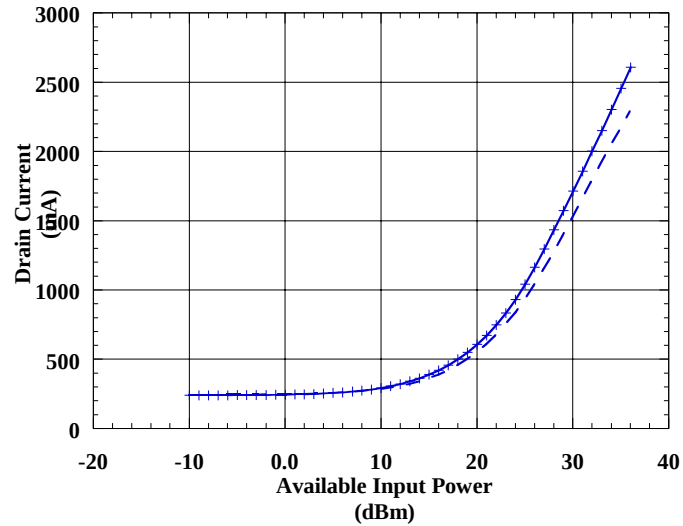
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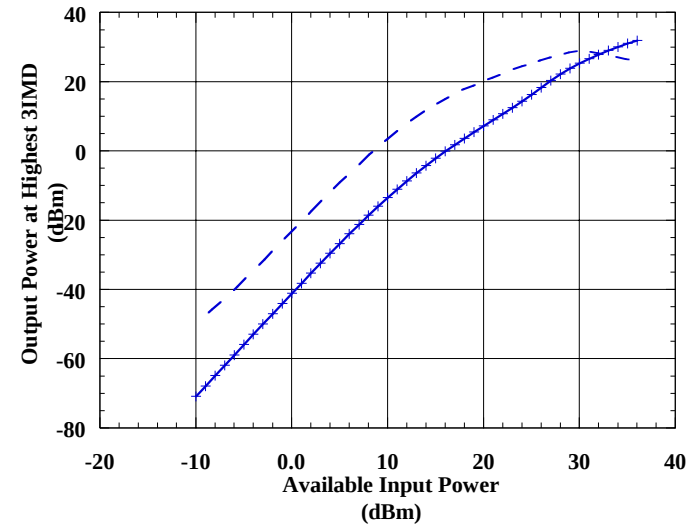
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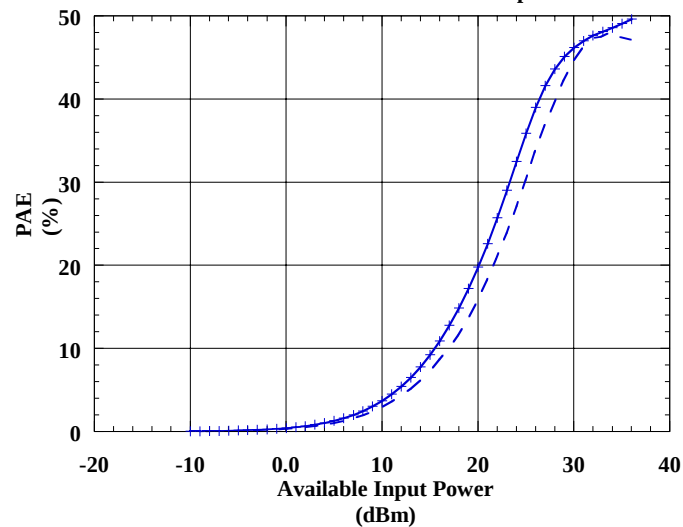
Drain Current vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



Output Power at Highest 3IMD vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



Power Added Efficiency vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



MRF183S LDMOS Device

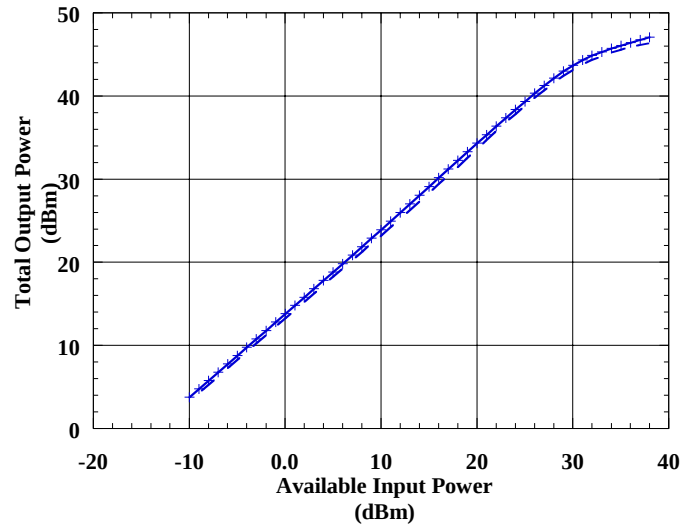
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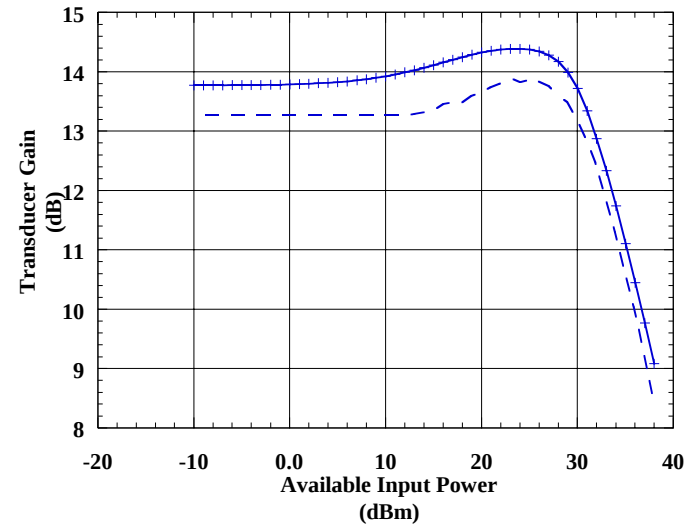
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Simulated (plus) and Average of Three Measured (dashes)

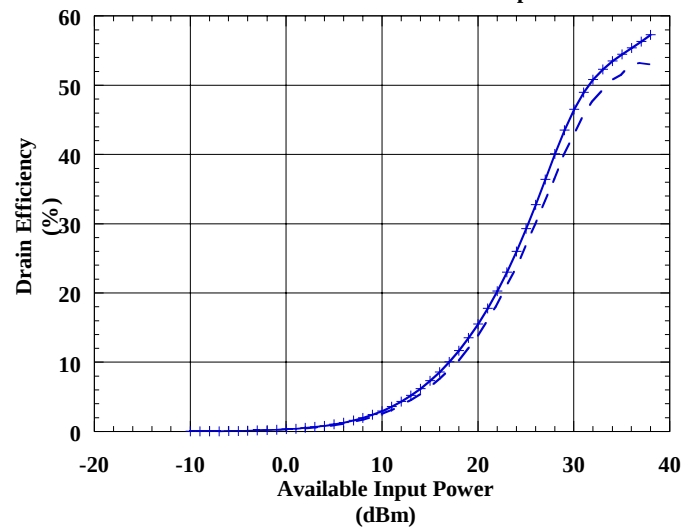
Total Output Power vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



Transducer Gain vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



Drain Efficiency vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



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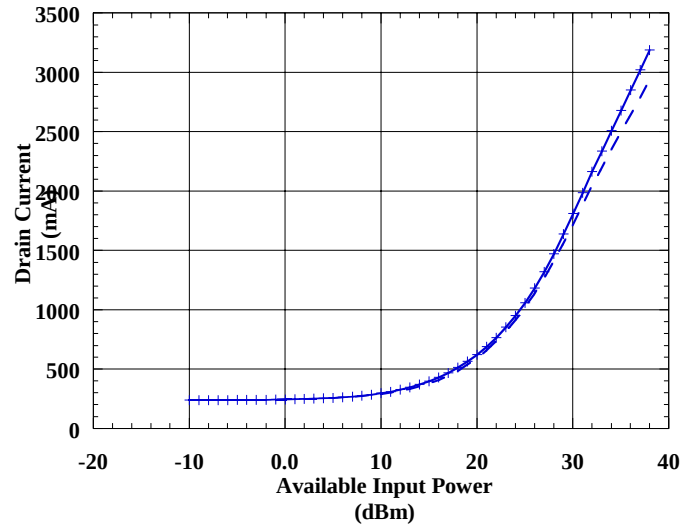
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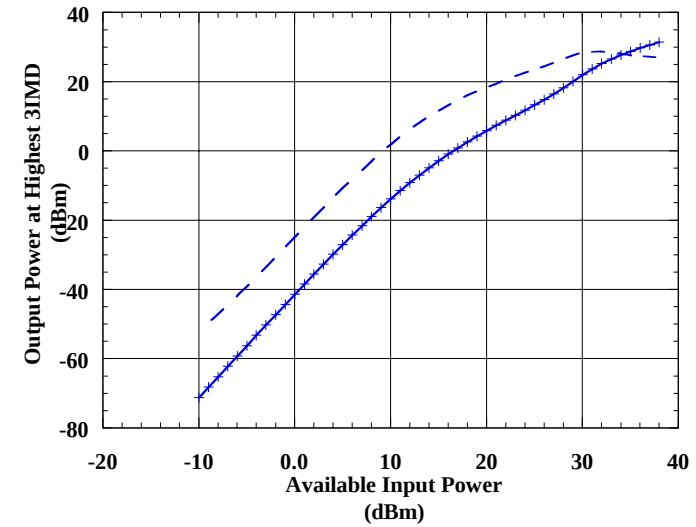
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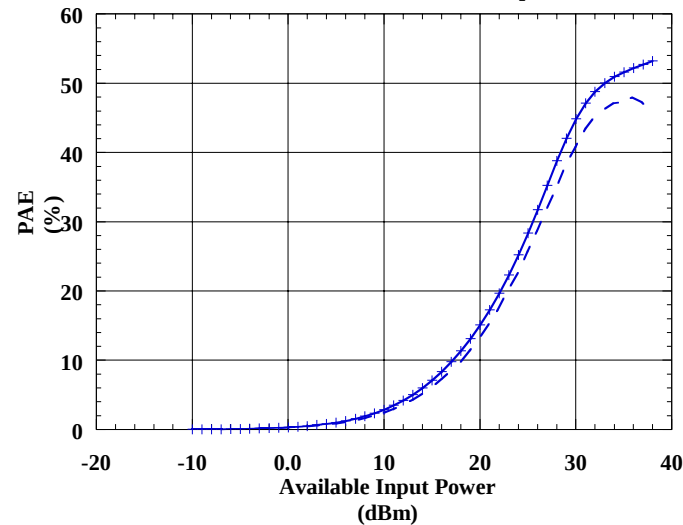
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Output Power at Highest 3IMD vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



Power Added Efficiency vs. Available Input Power
Two Tone Excitation with 1 MHz Separation



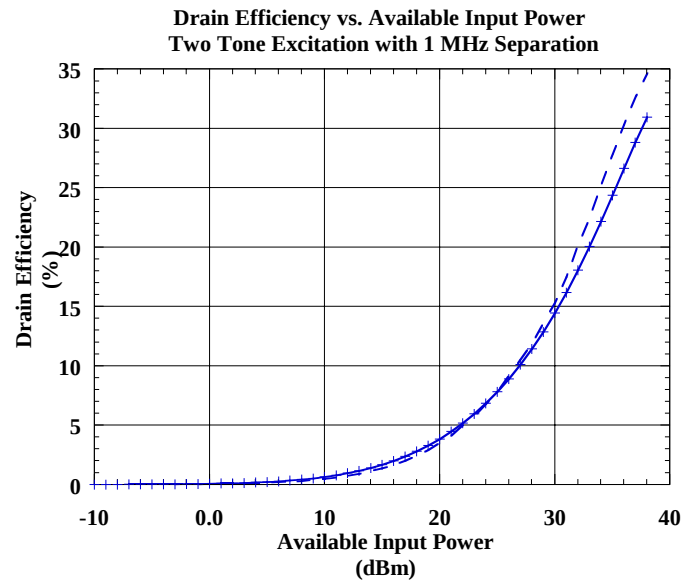
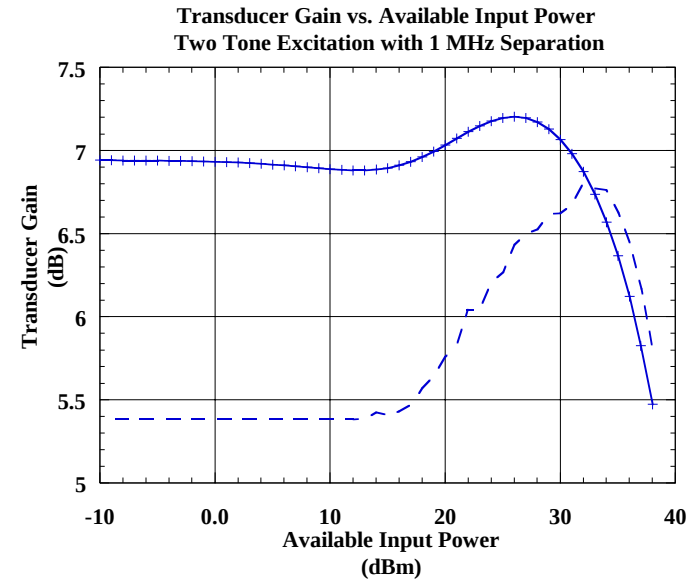
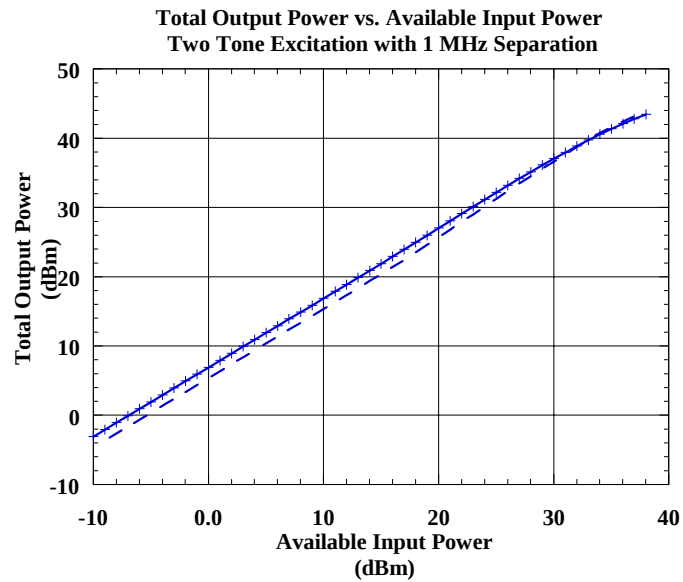
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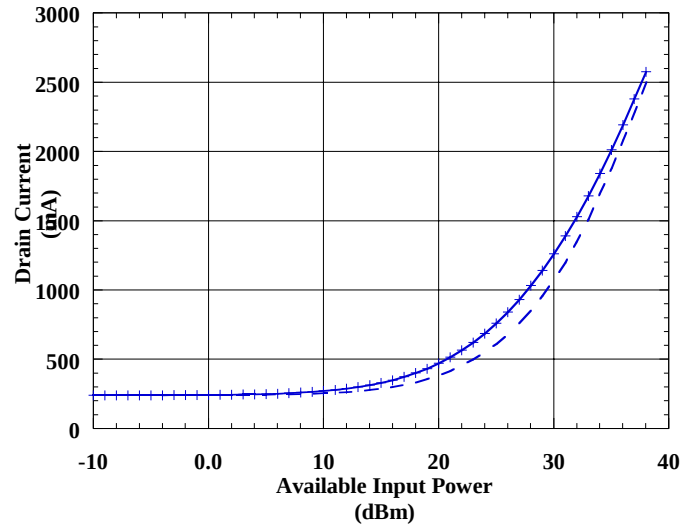
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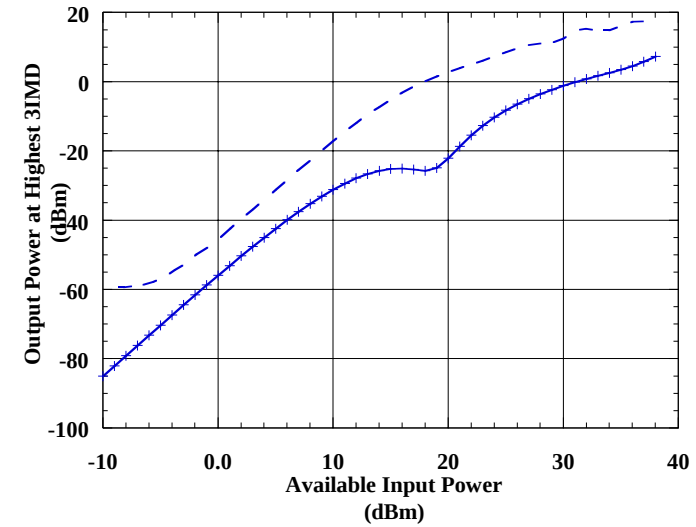
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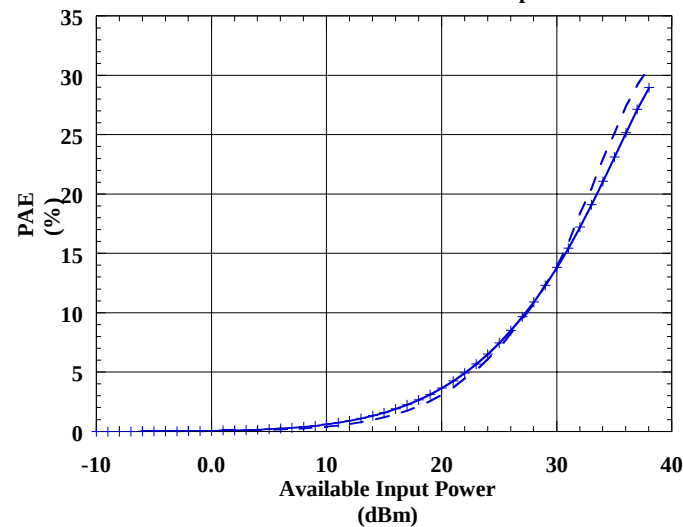
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Output Power at Highest 3IMD vs. Available Input Power
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Power Added Efficiency vs. Available Input Power
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