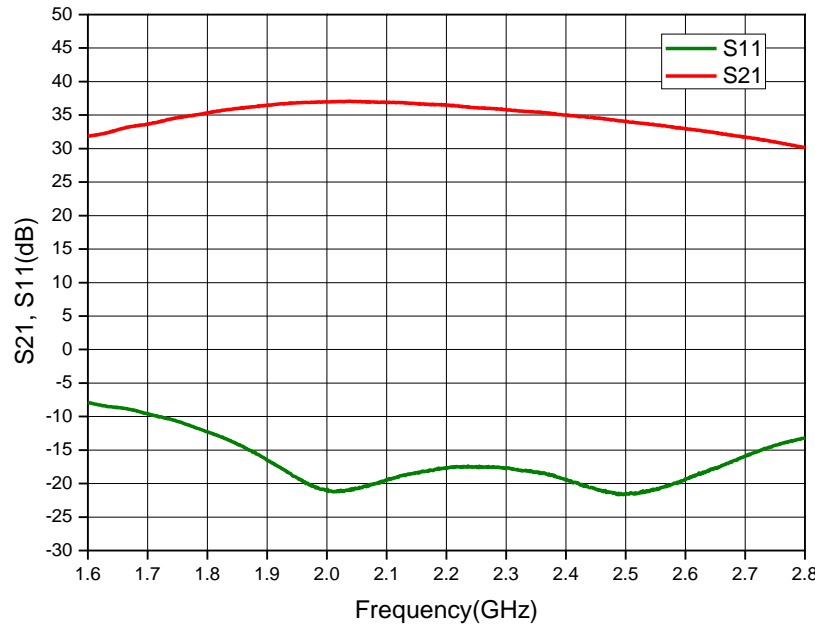
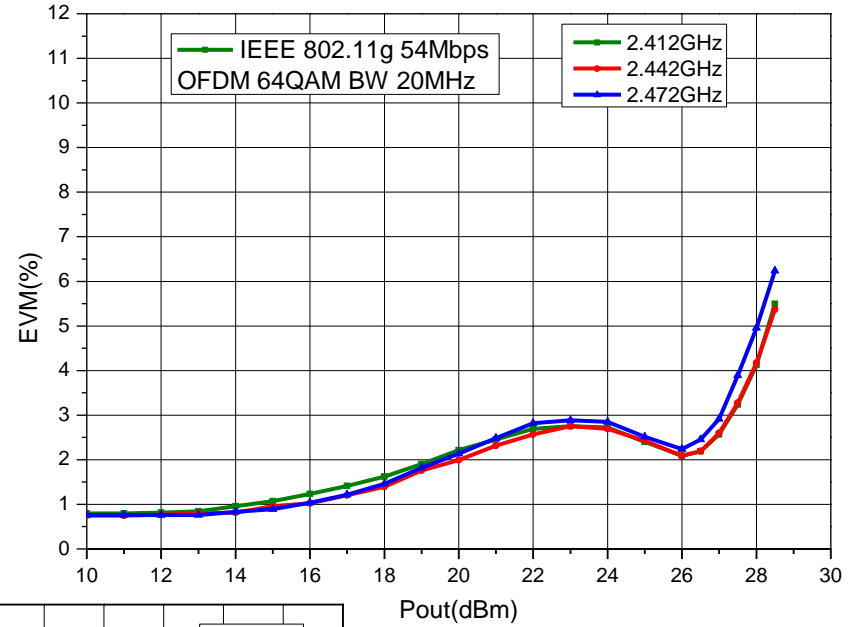
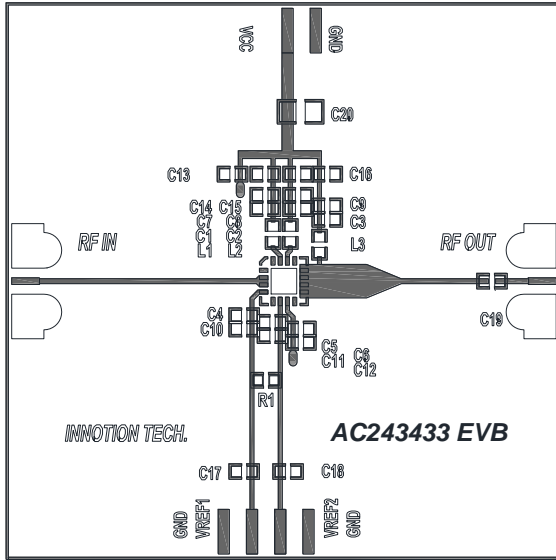


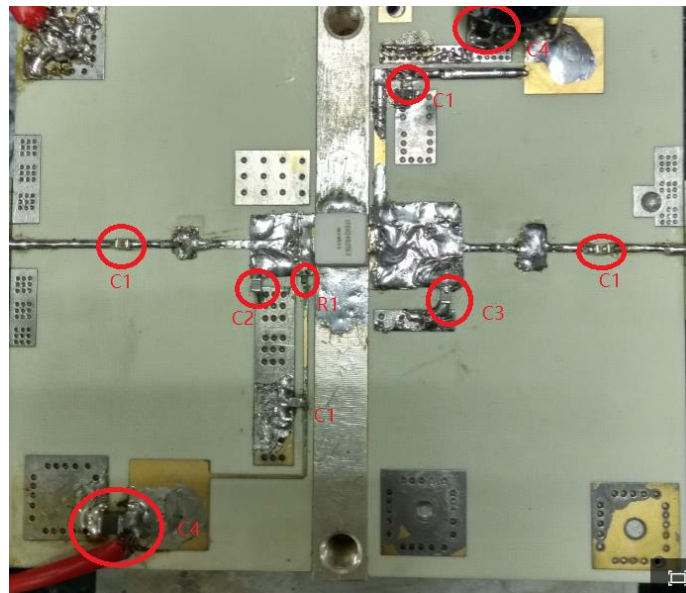
WIFI

	Device	Technology	Pout(dBm)	Linear Gain(dB)	EVM
2.4GHz	AC243433	GaAs	27	35	2.5%
	ITCH24025E2	LDMOS	36-37	19.5	3%
5.8GHz	AC552228	GaAs	23	22	3%
	GTAV58030E2	GaN	36-37	14	3%

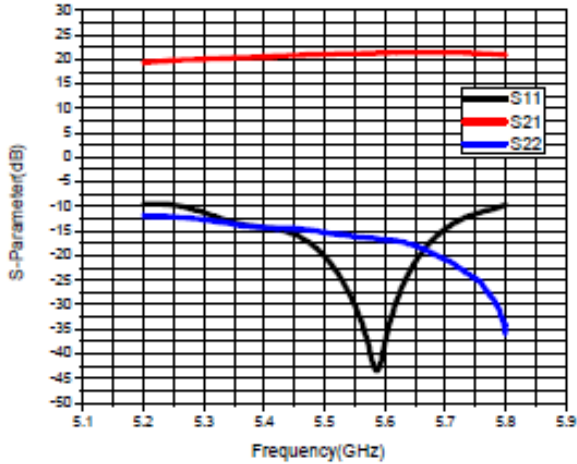
- 3% EVM as linear criteria
- 7dB BO from P1dB as rule of thumb
- 802.11a, 802.11n, 802.16d show slightly difference
- GaAs 3.3V to 5.5V changeable for performance trade off
- LDMOS 24 to 32V changeable for performance trade off
- GaN 48V to 50V changeable for performance trade off



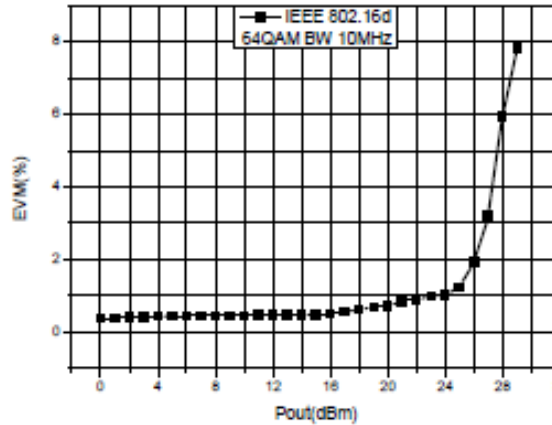
Signal: IEEE 802.11g 54Mbps OFDM 64QAM BW 20M						
Part NO.	ITCH24025E2		VDS=28V,IDQ=300mA			
Pout (dBm)	2412M		2442M		2472M	
	EVM(dB)	IDS (mA)	EVM(dB)	IDS (mA)	EVM(dB)	IDS (mA)
33	-38.7	499	-38.8	484	-37	467
34	-36.6	538	-36.7	512	-35.2	499
35	-34	584	-33.9	554	-32.7	537
36	-32	621	-30.9	603	-29.8	582



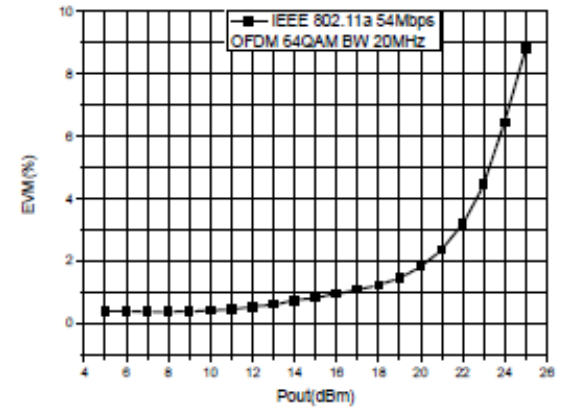
Small Signal Parameters



802.16d EVM vs. Output Power @5.5



802.11a EVM vs. Output Power @5.5GHz



802.11n EVM vs. Output Power @5.5GHz

