

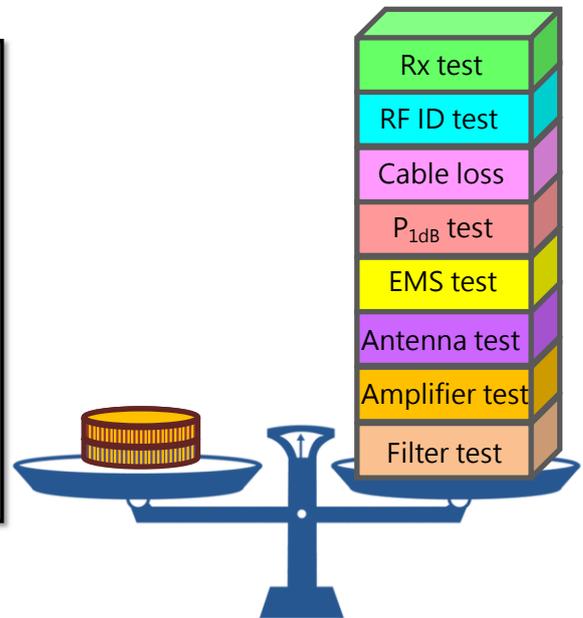
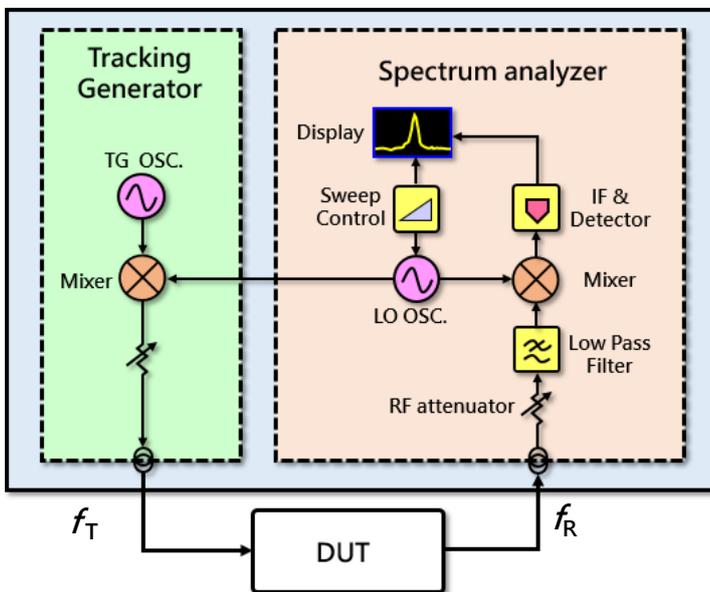
Reasons why spectrum analyzer requires TG

Why does the majority of spectrum analyzer users purchase spectrum analyzer and TG at the same time?

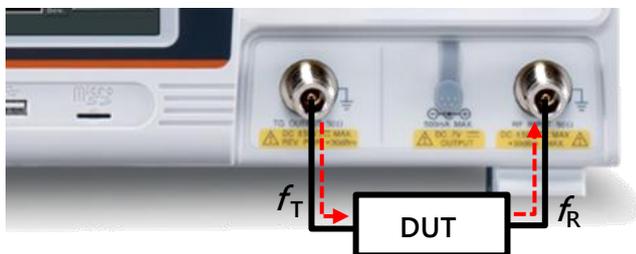


- The optimal opportunity to own a sweep signal generator with the lowest cost.
- Spectrum analyzer collocating with tracking generator can conduct various tests, including filter's frequency response, antenna's working frequency, RFID test, cable loss test, amplifier's frequency response and P_{1dB} test, etc.

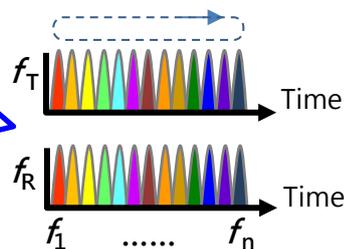
Block diagram for TG and spectrum analyzer



Connection diagram of frequency characteristic test



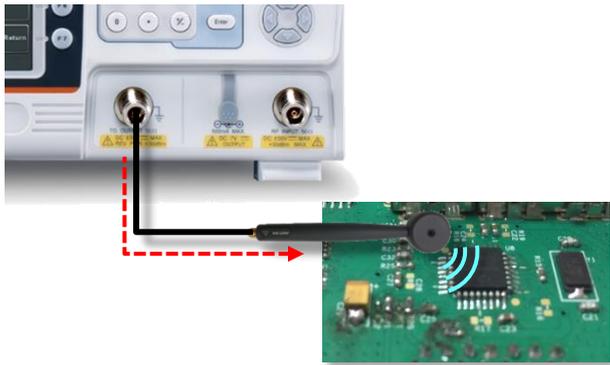
The transmitting frequency and receiving frequency are synchronized.



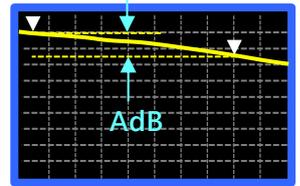
Characteristic measurement for low pass filter



Connecting a near field probe ANT-04 to become the signal source for EMS test



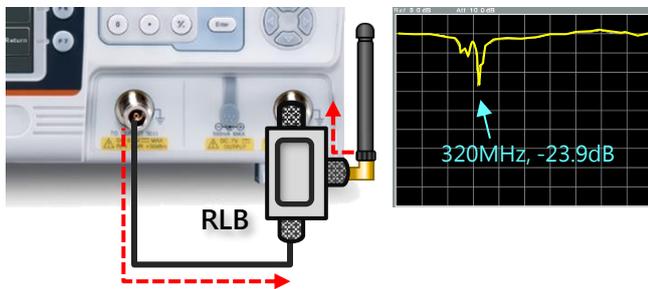
Cable loss measurement



Cable	Zo	Attenuation*
RG-8X	50	13.5
RG-174A/U	50	31
RG-214/U	50	9

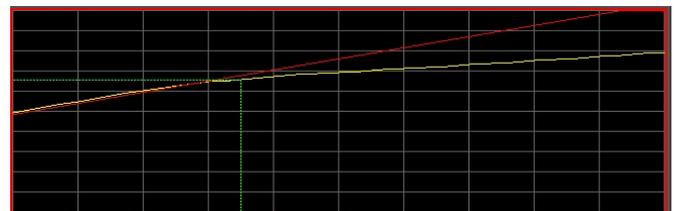
*: 1GHz, dB/100 ft

Antenna's working frequency measurement



To measure return loss, RLB and return loss bridge can send deflected signals (due to impedance mismatch of DUT (antenna)) transmitted by TG to the input of spectrum analyzer.

Amplifier's P_{1dB} characteristic measurement

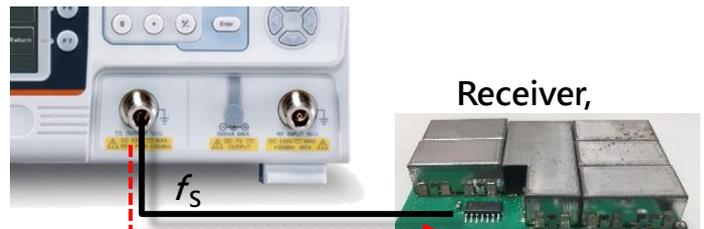


Start: 800.000MHz Center: 800.000MHz Stop: 800.000MHz
RBW: 10kHz VBW: 10kHz Span: 0Hz Sweep: 775ms

P1dB Measurement						
Definitions	TG(dBm)	Gain(dB)	TG	Gain	TG	Ave. Gain:
	-30	14.27	-20	12.46	-10	5.92
	-29	14.37	-19	11.99	-9	5.26
	-28	14.32	-18	11.45	-8	4.58
	-27	14.18	-17	10.83	-7	3.94
	-26	14.09	-16	10.15	-6	3.25
	-25	14.01	-15	9.48	-5	2.65
	-24	13.88	-14	8.72	-4	1.98
	-23	13.72	-13	8.01	-3	1.40
	-22	13.47	-12	7.31	-2	0.73
	-21	13.12	-11	6.68	-1	0.13
				0	0	-0.56

Receiver Rx measurement

TG can be regarded as a RF SG when frequency range is Zero Span and transmitting frequency f_T and receiving frequency f_R are the same, and there is no frequency sweep.



Receiver,

Please do not hesitate to contact us if you have any queries on the announcement, or product information of the EMC pre-compliance testing solution.

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