

	设备期间核查记录 Records of equipment Intermediate checks 信恒检测技术（深圳）有限公司 BTF Testing Lab (Shenzhen) CO., Ltd.	标识 Identification: PROC-BTF-008-02
		版本 Revision: 0
		生效期 Valid after: 2021-08-15

device name	Dipole antenna			manufacturer			MVG			
Check item and Check record	Dipole antenna self-check record									
	environmental conditions:									
	temperature		23.0℃		humidity		53%			
	Instrument information:									
	ENA Series Network Analyzer									
	used equipment:									
		Description		Manufacturer		Model		Serial No.		
	√	750MHz Validation Dipole		MVG		SID750		07/22 DIP 0G750-655		
	√	835MHz Validation Dipole		MVG		SID835		07/22 DIP 0G835-656		
	√	1800MHz Validation Dipole		MVG		SID1800		07/22 DIP 1G800-657		
	√	1900MHz Validation Dipole		MVG		SID1900		07/22 DIP 1G900-658		
	√	2450MHz Validation Dipole		MVG		SID2450		07/22 DIP 2G450-662		
	√	2600MHz Validation Dipole		MVG		SID2600		07/22 DIP 2G600-663		
	√	5200MHz-5800MHz Validation Dipole		MVG		SID5000		07/22 DIP5G000-670		
	√	ENA Series Network Analyzer		Agilent		E5071B		MY42301221		
	test result:									
	Frequency (MHz)	Return loss(dB)		Impedance(Ω)				error range (%)		Results
		measurement	target	measurement		target		Return loss(±20%)	Impedance (±5Ω)	(P/F)
				real part	imaginary part	real part	imaginary part			
	CW750	-20.92	-25.44	55.89	1.5	55.2	-1.2	-17.77%	3.4	P
	CW835	-29.88	-26.27	52.8	-1.7	52.5	-4.2	13.74%	2.8	P

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	CW1800	-24.55	-26.54	52.4	-0.2	52.8	+3.8	-7.50%	4.4	P
	CW1900	-25.67	-23.01	51.9	-5.3	51.0	-7.0	11.56%	2.6	P
	CW2100	-21.18	-21.70	51.1	4.8	51.1	+8.1	-2.40%	3.3	P
	CW2300	-32.78	-38.65	49.6	-2.2	50.8	-0.8	-15.19%	2.6	P
	CW2450	-24.37	-21.23	48.3	5.7	49.4	+8.6	14.79%	4.0	P
	CW2600	-20.56	-23.05	57.3	5.7	54.3	+5.5	-10.80%	3.2	P
	CW5200	-21.14	-20.29	58.4	-4.5	58.76	-4.43	4.19%	0.43	P
	CW5400	-27.63	-29.09	57.5	1.2	53.46	+0.61	-5.02%	4.63	P
	CW5600	-33.45	-31.06	51.7	0.7	52.76	-0.45	7.69%	2.21	P
	CW5800	-28.88	-28.48	50.8	0.1	50.12	-3.76	1.40%	4.34	P

data comparison

Dipole calibration report data

Self-examination data

750MHz Dipole

Return Loss Graph for 750MHz Dipole. The x-axis represents Frequency (MHz) from 650 to 850. The y-axis represents S11 (dB) from 0.0 to -50.0. A red curve shows the return loss, with a minimum value of -25.44 dB marked at 750 MHz.

Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
750	-25.44	-20	55.2 Ω - 1.2 j Ω

Self-examination data for 750MHz Dipole. The top plot is a Smith Chart showing the impedance at 750.000000 MHz. The bottom plot is a Log Mag graph showing the return loss at 750.000000 MHz, with a value of -25.423 dB. The interface includes tabs for Active Ch/Trace, Response, Stimulus, Mkr/Analysis, and Instr State. A sidebar on the right contains buttons for System, Print, Abort Printing, Printer Setup..., Invert Image, Dump Screen Image..., Multport Test Set Setup, Misc Setup, Backlight, and Firmware Revision.

835MHz Dipole

Return Loss Graph for 835MHz Dipole. The x-axis represents Frequency (MHz) from 735 to 935. The y-axis represents S11 (dB) from 0.0 to -30.0. A red curve shows the return loss, with a minimum value of -26.27 dB marked at 835 MHz.

Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
835	-26.27	-20	52.5 Ω - 4.2 j Ω

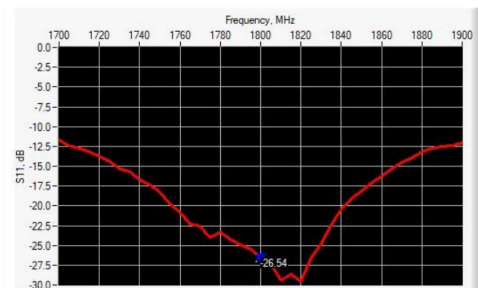
Self-examination data for 835MHz Dipole. The top plot is a Smith Chart showing the impedance at 835.000000 MHz. The bottom plot is a Log Mag graph showing the return loss at 835.000000 MHz, with a value of -26.58 dB. The interface includes tabs for Active Ch/Trace, Response, Stimulus, Mkr/Analysis, and Instr State. A sidebar on the right contains buttons for Marker, Marker 1, Marker 2, Marker 3, Marker 4, More Markers, Ref Marker, Clear Marker Menu, Marker -> Ref Marker, Ref Marker Mode, and Return.



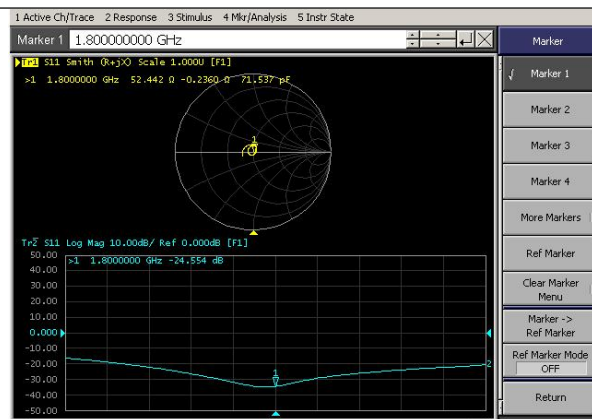
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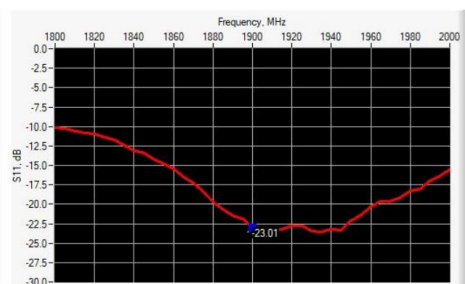
1800MHz Dipole



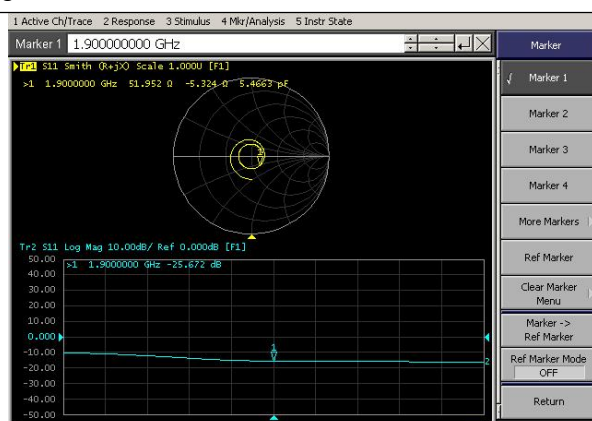
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
1800	-26.54	-20	$52.8 \Omega + 3.8 j\Omega$



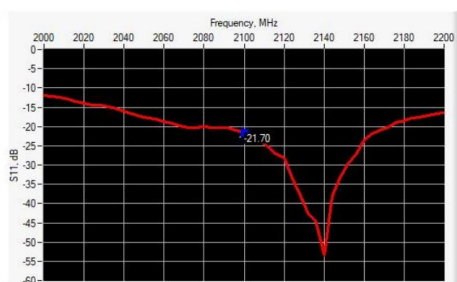
1900MHz Dipole



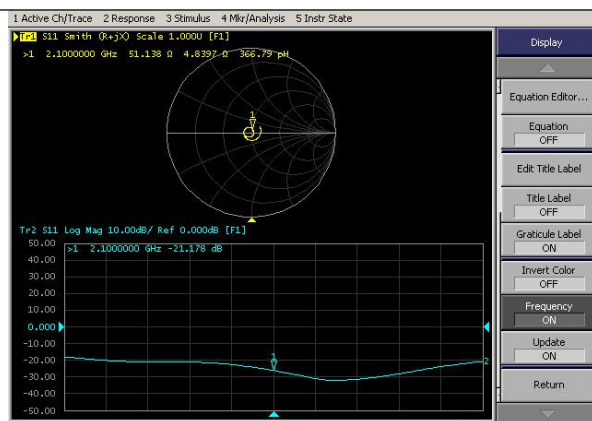
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
1900	-23.01	-20	$51.0 \Omega - 7.0 j\Omega$



2100MHz Dipole



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2100	-21.70	-20	$51.1 \Omega + 8.1 j\Omega$

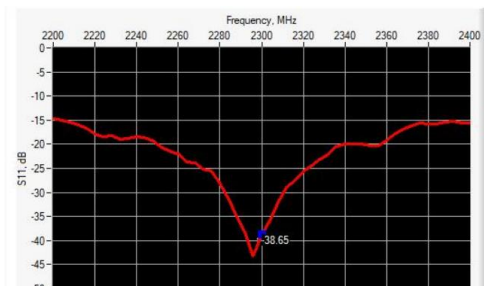


2300MHz Dipole

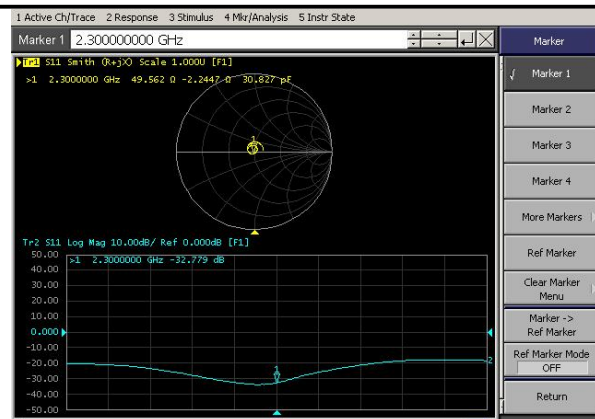


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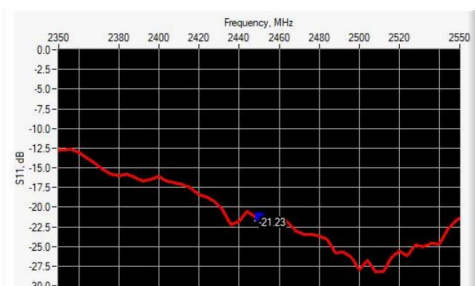
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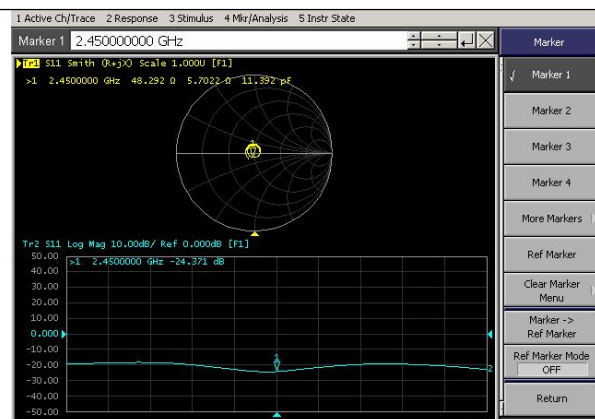
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2300	-38.65	-20	$50.8 \Omega - 0.8 j\Omega$



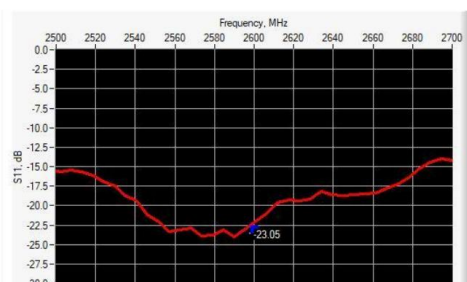
2450MHz Dipole



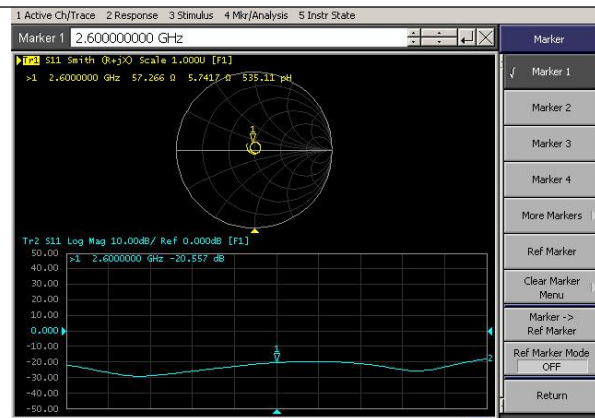
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2450	-21.23	-20	$49.4 \Omega + 8.6 j\Omega$



2600MHz Dipole



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2600	-23.05	-20	$54.3 \Omega + 5.5 j\Omega$



5000MHz Dipole

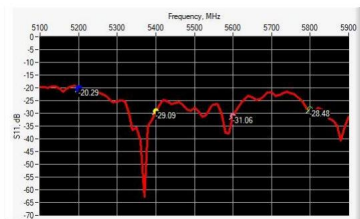


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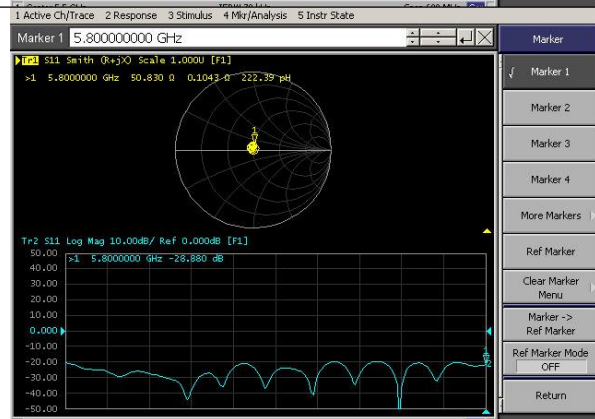
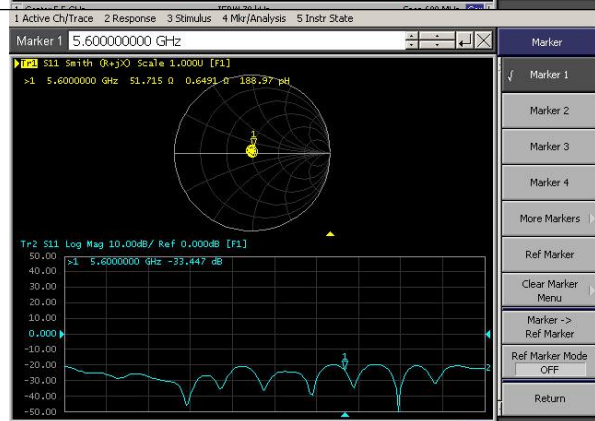
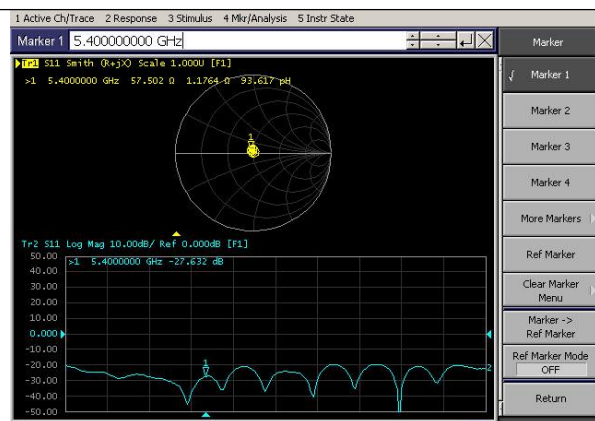
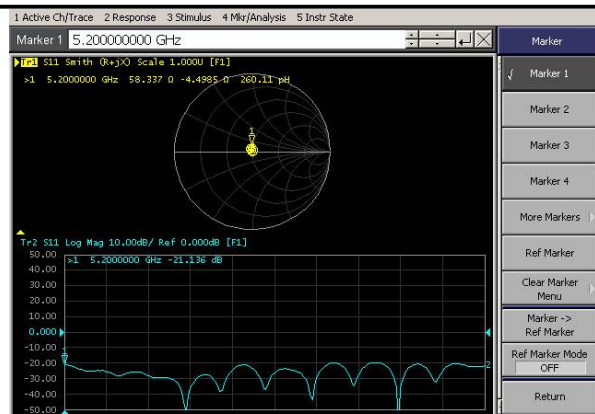
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Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
5200	-20.29	-20	58.76 Ω - 4.43 j Ω
5400	-29.09	-20	53.46 Ω + 0.61 j Ω
5600	-31.06	-20	52.76 Ω - 0.45 j Ω
5800	-28.48	-20	50.12 Ω - 3.76 j Ω



verifier: *Amenda Zhong*

Date: 2024-01-04

Result: PASS