

	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°C			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:									
	Return loss(dB)		Impedance(Ω)				error range (%)		Results
Frequency (MHz)	measurement	target	measurement		target		Return loss(±20%)	Impedance (±5Ω)	Results (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

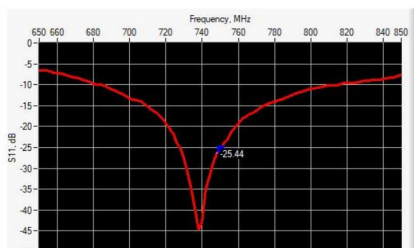
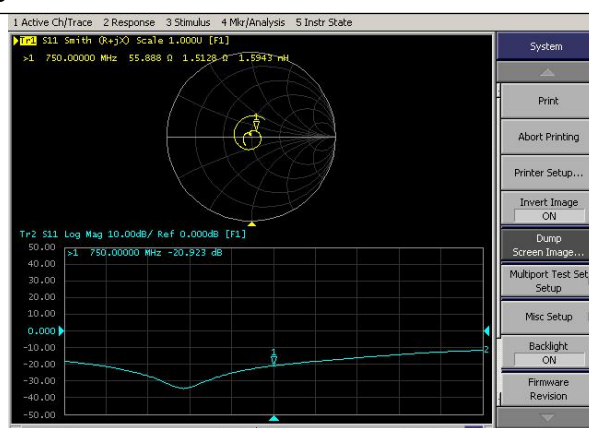
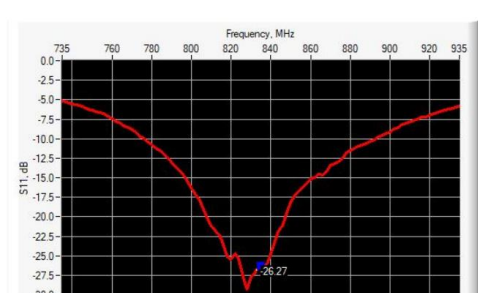
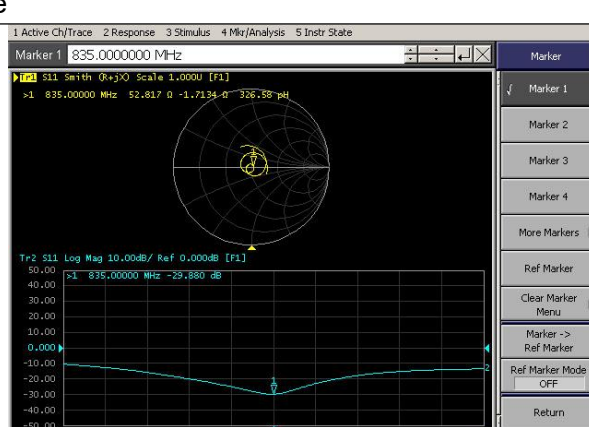


设备期间核查记录
Records of equipment
Intermediate checks
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CW1800	-24.55	-26.54	52.4	-0.2	52.8	+3.8	-7.50%	4.4	P
CW1900	-25.67	-23.01	51.9	-5.3	51.0	-7.0	11.56%	2.6	P
CW2100	-21.18	-21.70	51.1	4.8	51.1	+8.1	-2.40%	3.3	P
CW2300	-32.78	-38.65	49.6	-2.2	50.8	-0.8	-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

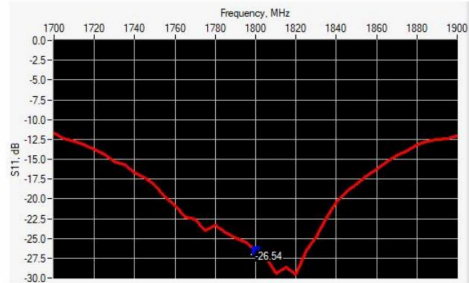
Dipole calibration report data	Self-examination data								
750MHz Dipole									
 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Frequency (MHz)</th> <th>Return Loss (dB)</th> <th>Requirement (dB)</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>750</td> <td>-25.44</td> <td>-20</td> <td>55.2 Ω - 1.2 jΩ</td> </tr> </tbody> </table>	Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance	750	-25.44	-20	55.2 Ω - 1.2 jΩ	
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance						
750	-25.44	-20	55.2 Ω - 1.2 jΩ						
835MHz Dipole									
 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Frequency (MHz)</th> <th>Return Loss (dB)</th> <th>Requirement (dB)</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>835</td> <td>-26.27</td> <td>-20</td> <td>52.5 Ω - 4.2 jΩ</td> </tr> </tbody> </table>	Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance	835	-26.27	-20	52.5 Ω - 4.2 jΩ	
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance						
835	-26.27	-20	52.5 Ω - 4.2 jΩ						



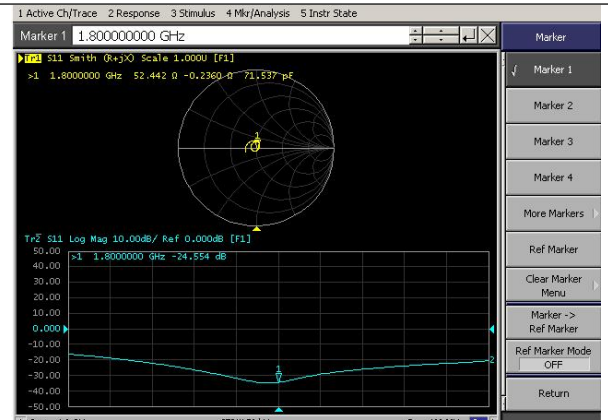
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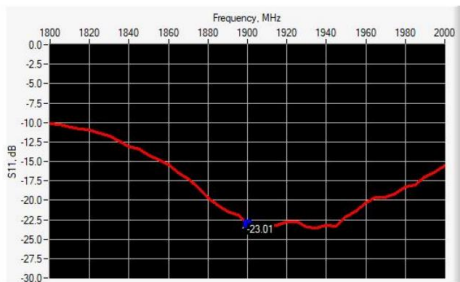
1800MHz Dipole



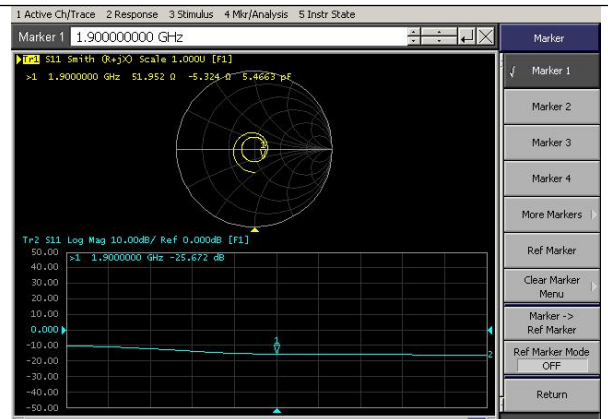
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
1800	-26.54	-20	52.8 Ω + 3.8 jΩ



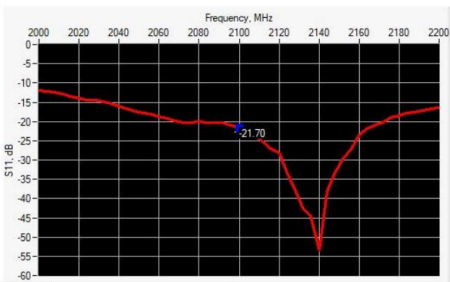
1900MHz Dipole



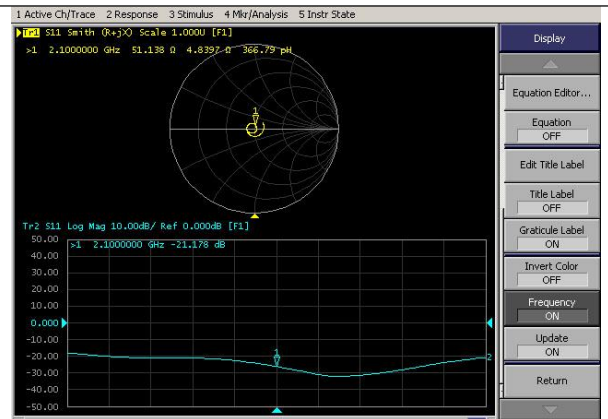
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
1900	-23.01	-20	51.0 Ω - 7.0 jΩ



2100MHz Dipole



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2100	-21.70	-20	51.1 Ω + 8.1 jΩ



2300MHz Dipole

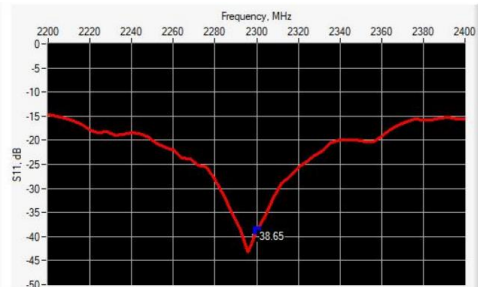


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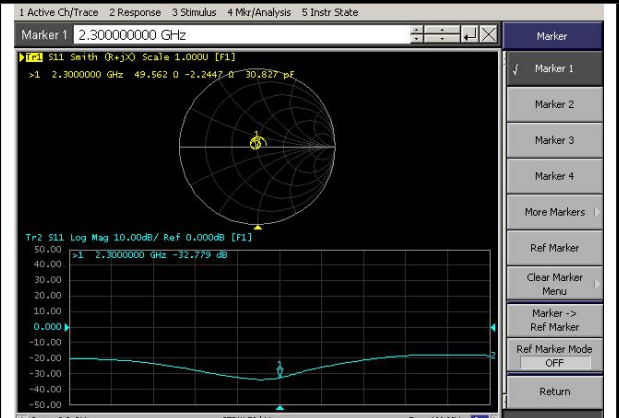
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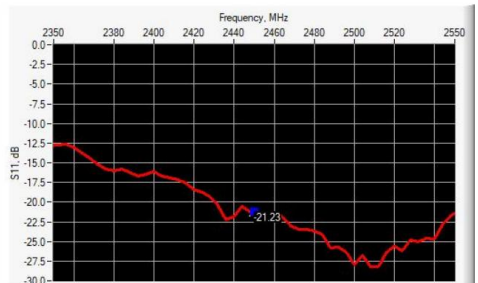
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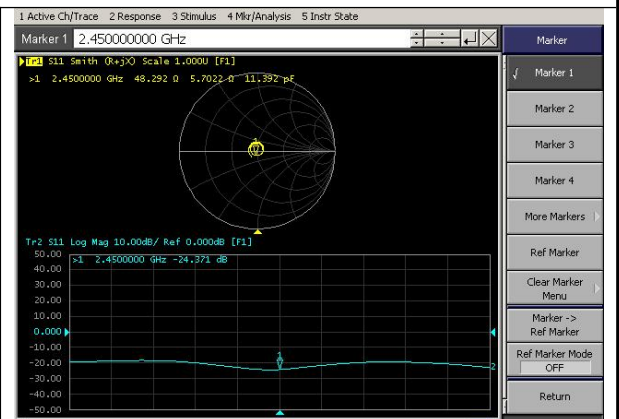
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2300	-38.65	-20	50.8 Ω - 0.8 jΩ



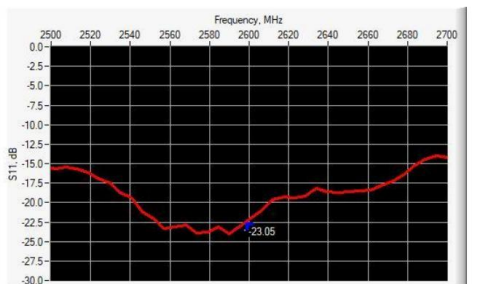
2450MHz Dipole



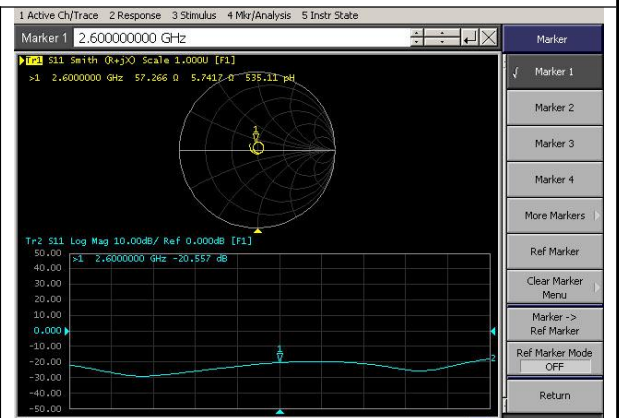
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2450	-21.23	-20	49.4 Ω + 8.6 jΩ



2600MHz Dipole



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2600	-23.05	-20	54.3 Ω + 5.5 jΩ

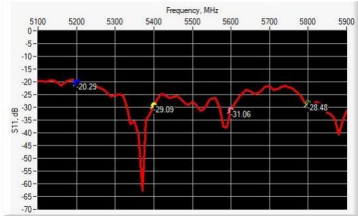


5000MHz Dipole

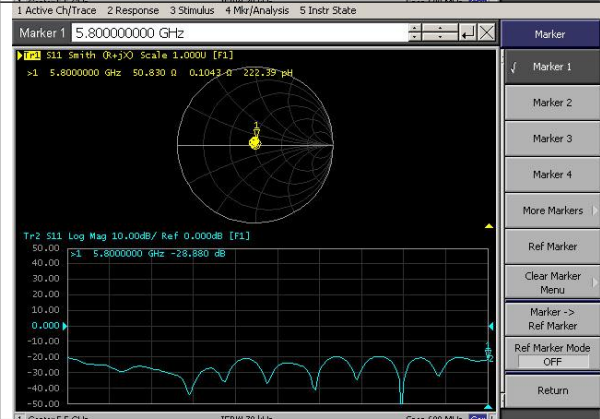
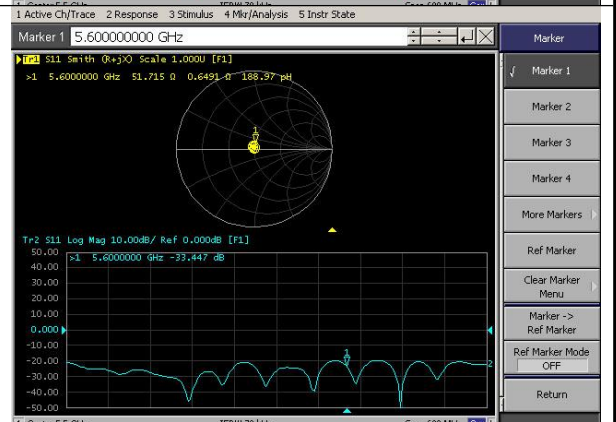
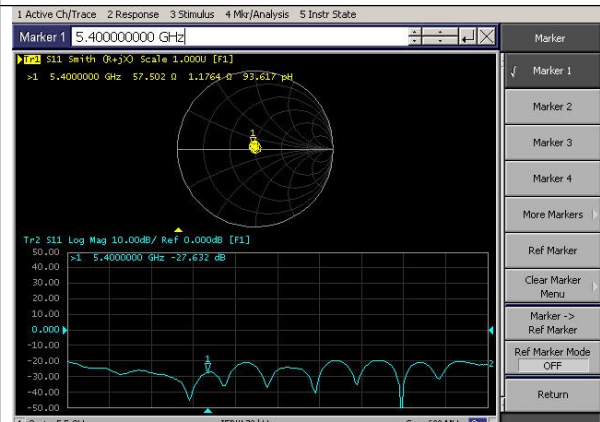
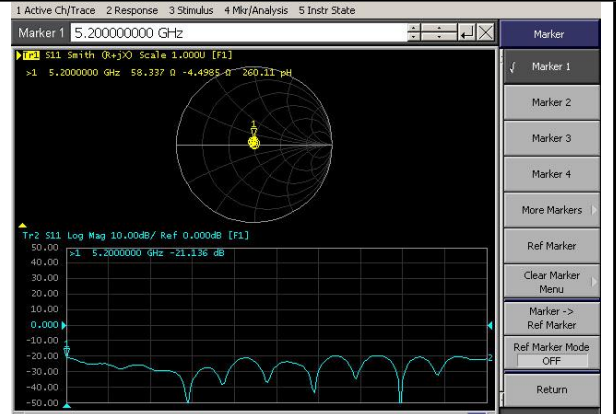


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Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
5200	-20.29	-20	58.76 Ω - 4.43 jΩ
5400	-29.09	-20	53.46 Ω + 0.61 jΩ
5600	-31.06	-20	52.76 Ω - 0.45 jΩ
5800	-28.48	-20	50.12 Ω - 3.76 jΩ



verifier: *Amenda Zhong*

Date: 2024-01-04

Result: PASS