Calibration Report

Model : Line Impedance Stabilization Network SMLIN1500-1M

Make : Scientific

Sr. No. : 2003006

Date of Calibration: 13.03.2020

Calibration instrument used : 1. Bode 100 Vector Network Analyzer Sr. No. ML737D

(Calibration Adapter used in measurements)

Temperature : 25 °C ± 3°C

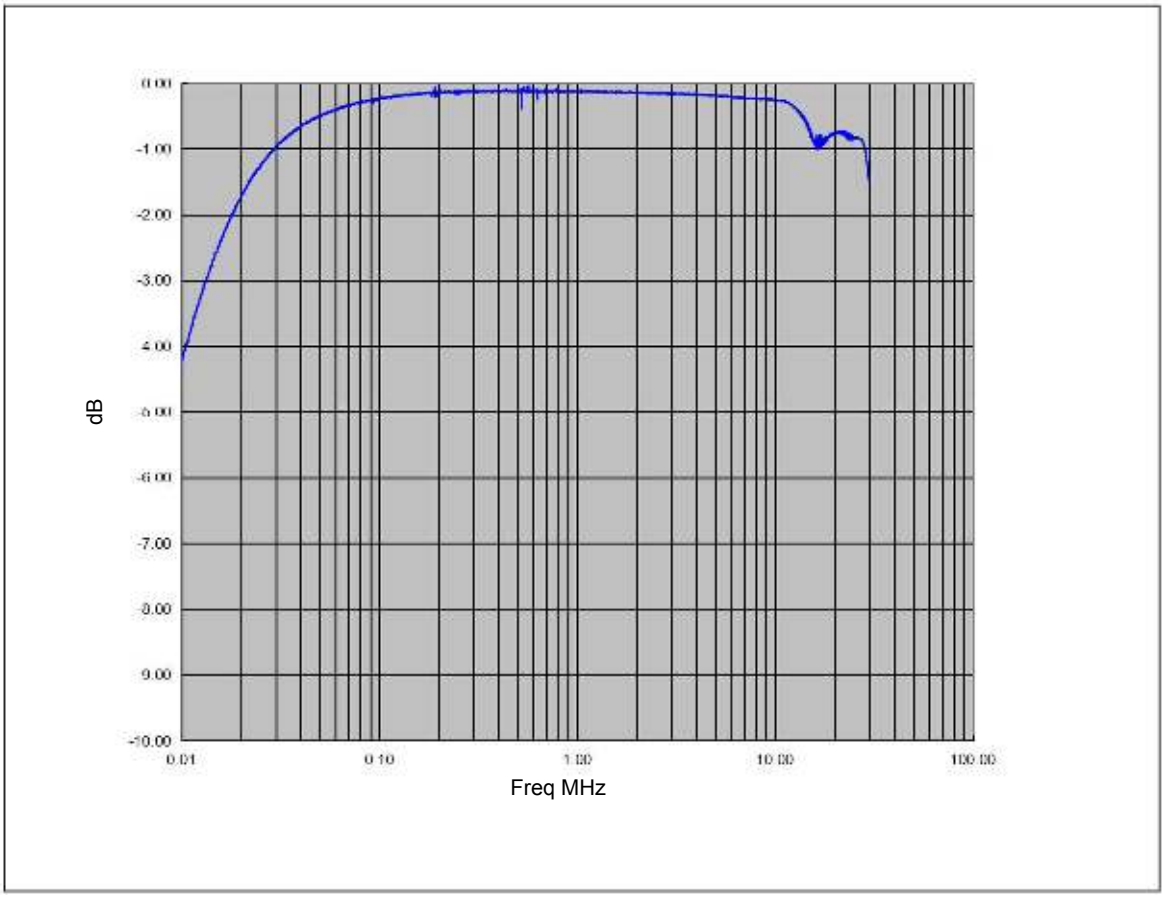
Humidity : 65 % RH ± 15%

1. Calibration Data: Voltage Division Factor (Atten.) from EUT to RF BNC / (N) terminal :

S. No.	Frequency MHz	Voltage Division Factor dB
1	0.009	-4.77
2	0.010	-4.27
3	0.015	-2.57
4	0.020	-1.71
5	0.025	-1.27
6	0.030	-0.97
7	0.040	-0.66
8	0.050	-0.50
9	0.060	-0.40
10	0.070	-0.35
11	0.080	-0.31
12	0.090	-0.26
13	0.100	-0.24
14	0.121	-0.21
15	0.140	-0.19
16	0.150	-0.18
17	0.160	-0.17
18	0.170	-0.15
19	0.180	-0.14
20	0.190	-0.14
21	0.200	-0.14
22	0.250	-0.14
23	0.301	-0.13
24	0.351	-0.13
25	0.401	-0.13
26	0.501	-0.12
27	0.601	-0.13
28	0.702	-0.14
29	0.802	-0.14
30	0.902	-0.13
31	1.002	-0.14
32	1.203	-0.13
33	1.504	-0.15
34	2.006	-0.14
35	2.507	-0.15
36	3.009	-0.16
37	3.510	-0.17
38	4.013	-0.18
39	4.514	-0.19
40	5.016	-0.20
41	5.506	-0.20
42	6.020	-0.21
43	6.502	-0.23
44	7.023	-0.22
45	7.524	-0.23

S. No.	Frequency MHz	Voltage Division Factor dB
46	7.710	-0.25
47	8.498	-0.24
48	9.031	-0.24
49	9.520	-0.25
50	10.035	-0.26
51	10.493	-0.27
52	11.017	-0.28
53	11.519	-0.30
54	12.045	-0.33
55	12.493	-0.37
56	13.010	-0.41
57	13.493	-0.45
58	14.052	-0.51
59	14.515	-0.63
60	15.055	-0.75
61	15.551	-0.88
62	15.999	-0.88
63	16.527	-1.01
64	17.003	-0.93
65	17.492	-0.86
66	18.069	-0.90
67	18.514	-0.82
68	19.048	-0.79
69	19.517	-0.80
70	20.079	-0.77
71	20.573	-0.77
72	21.080	-0.74
73	21.512	-0.76
74	21.953	-0.76
75	22.585	-0.79
76	23.048	-0.81
77	23.520	-0.82
78	24.002	-0.85
79	24.593	-0.80
80	25.097	-0.83
81	25.507	-0.84
82	26.030	-0.83
83	26.563	-0.85
84	27.107	-0.86
85	27.551	-0.88
86	28.001	-0.92
87	28.575	-1.03
88	29.042	-1.15
89	29.517	-1.30
90	30.000	-1.50

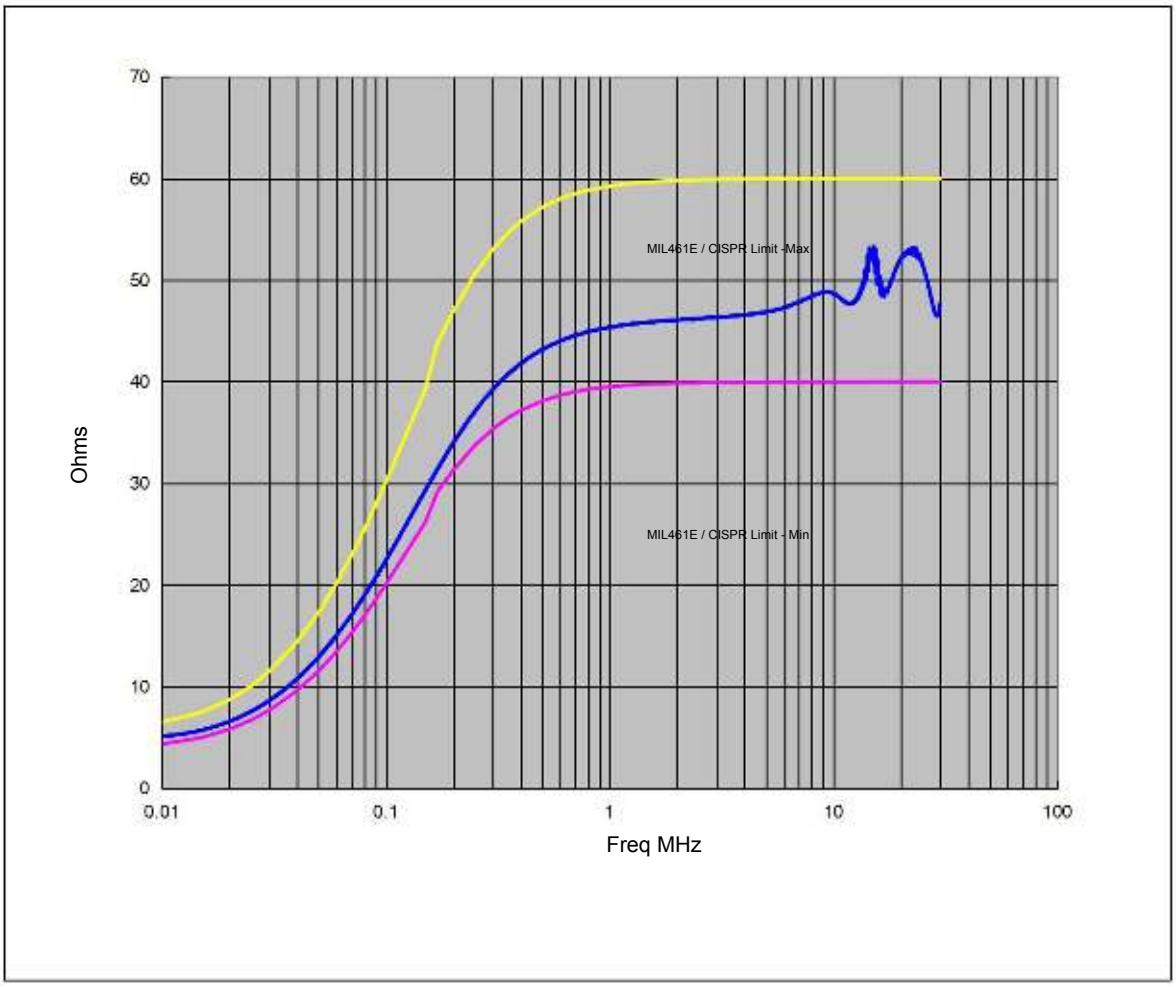
Waveforms Voltage Division Factor (Attenuation) from EUT to RF BNC / (N) terminal :



2. Impedance Measurements EUT Terminals, RF connector terminated.

S. No.	Frequency MHz	Lower Limit Ω	Impedance Ω	Higher Limit Ω
1	0.009	4.18	5.09	6.26
2	0.015	4.98	5.72	7.46
3	0.020	5.80	6.60	8.70
4	0.025	6.70	7.58	10.06
5	0.030	7.65	8.62	11.47
6	0.040	9.59	10.78	14.39
7	0.050	11.53	12.92	17.29
8	0.060	13.42	15.03	20.12
9	0.070	15.23	17.02	22.85
10	0.080	16.95	18.94	25.43
11	0.090	18.58	20.74	27.86
12	0.100	20.09	22.45	30.13
13	0.150	26.18	29.30	39.26
14	0.170	29.20	31.42	43.80
15	0.200	31.30	33.96	46.94
16	0.250	33.74	37.07	50.62
17	0.301	35.34	39.22	53.00
18	0.351	36.42	40.72	54.62
19	0.401	37.17	41.80	55.75
20	0.501	38.12	43.16	57.18
21	0.601	38.66	44.02	58.00
22	0.702	39.01	44.53	58.51
23	0.802	39.23	44.90	58.85
24	0.902	39.39	45.16	59.09
25	1.002	39.50	45.36	59.26
26	1.203	39.66	45.63	59.48
27	1.504	39.78	45.86	59.66
28	2.006	39.87	46.06	59.81
29	2.507	39.92	46.22	59.88
30	3.009	39.94	46.34	59.92
31	4.013	39.97	46.58	59.95
32	5.016	39.98	46.84	59.98
33	7.023	39.99	47.84	59.99
34	10.035	39.99	48.68	59.99
35	15.055	40.00	52.59	60.00
36	20.079	40.00	52.22	60.00
37	30.000	40.00	47.66	60.00

Waveform Impedance Terminal EUT, RF connector terminated.



Auothorised Signatory

Calibrated by :	**Verified by :**	**Head of Lab**
Date : 13.03.2020	**Date : 13.03.2020**	**Date : 13.03.2020**

Scientific Mes-Technik Pvt. Ltd., B-14, Pologround, Industrial Estate, Indore - 452015
Phone : +91-731-2422330, 31, 32, 33 ● Email : info@scientificindia.com, www.scientificindia.com