

納入仕様書

iAN262-5GS6-B3M

iAN262-5GS6-W3M

iAN262-5GS6-B4ME

iAN262-5GS6-W4ME

iAN262-5GS6-B15ME

iAN262-5GS6-W15ME

改版履歴

版数	日付	承認者	改版者	改版内容
1.0	2022 年 9 月 8 日	中嶋	正木	初版発行
1.1	2022 年 9 月 20 日	中嶋	正木	Isolation 規格/データ追加、アンテナ外観仕様差替/W3M 追加、3m 同軸ケーブル仕様追加、梱包仕様追加

■ 適用

本仕様書は、株式会社IDY（以下、「IDY」という）が供給する 3G/4G/5G-sub6/GNSS/Wifi(2.4G/5G)バンド 用広帯域 Dual アンテナ iAN262-5GS6 シリーズの納入仕様書である。

■ 仕様

1. 型名

iAN262-5GS6-B3M	: アンテナ本体 (ケーブル長 3m、黒色) のみ
iAN262-5GS6-W3M	: アンテナ本体 (ケーブル長 3m、白色) のみ
iAN262-5GS6-B4ME	: アンテナ本体 (ケーブル長 3m、黒色) + 1m 延長ケーブル (iEC1M)
iAN262-5GS6-W4ME	: アンテナ本体 (ケーブル長 3m、白色) + 1m 延長ケーブル (iEC1M)
iAN262-5GS6-B15ME	: アンテナ本体 (ケーブル長 3m、黒色) + 12m 延長ケーブル (iEC12M)
iAN262-5GS6-W15ME	: アンテナ本体 (ケーブル長 3m、白色) + 12m 延長ケーブル (iEC12M)

*注意: 延長ケーブル iEC1M 及び iEC12M は黒色

2. 用途 3G/4G/5G-sub6/GNSS/Wifi(2.4G/5G)用通信モジュールに接続し使用される。

3. 電気特性

Sample Photo	
	
A. Electrical Characteristics	
Frequency	698 ~ 960 MHz / 1400 ~ 2700 MHz 2400 ~ 2500 MHz / 3300 ~ 5725 MHz
V.S.W.R.	≤ 2.5 @ 701 ~ 953 MHz / LTE1 ≤ 2.5 @ 1427 ~ 2700 MHz / LTE1 ≤ 2.0 @ 2400 ~ 2500 MHz / LTE1 ≤ 2.5 @ 3300 ~ 5725 MHz / LTE1 ≤ 2.5 @ 701 ~ 953 MHz / LTE2 ≤ 2.5 @ 1427 ~ 2700 MHz / LTE2 ≤ 2.0 @ 2400 ~ 2500 MHz / LTE2 ≤ 2.5 @ 3300 ~ 5725 MHz / LTE2

Peak Gain	-0.34 dBi @ 720 ~ 952 MHz / LTE1 2.03 dBi @ 1430 ~ 2687 MHz / LTE1 0.05 dBi @ 1561 ~ 1602 MHz / LTE1 1.84 dBi @ 2400 ~ 2500 MHz / LTE1 1.52 dBi @ 3300 ~ 5725 MHz / LTE1 0.85 dBi @ 720 ~ 952 MHz / LTE2 3.0 dBi @ 1430 ~ 2687 MHz / LTE2 -1.82 dBi @ 1561 ~ 1602 MHz / LTE2 3.0 dBi @ 2400 ~ 2500 MHz / LTE2 2.17 dBi @ 3300 ~ 5725 MHz / LTE2
Isolation loss	≤ - 10dB @ 699 MHz / ≤ -10dB @ 960 MHz ≤ - 12dB @ 1400 MHz / ≤ - 12dB @ 1710 MHz ≤ - 28dB @ 2700 MHz / ≤ - 28dB @ 3300 MHz ≤ - 45dB @ 5000 MHz / ≤ - 45dB @ 5850 MHz
Antenna Type	Dipole
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Material of Plastic	PC-N4010
Cable Type	LMR100
Connector Type	SMA Male
C. Environmental	
Waterproof	IP56
Operation Temperature	- 40 °C ~ + 70 °C
Storage Temperature	- 40 °C ~ + 80 °C

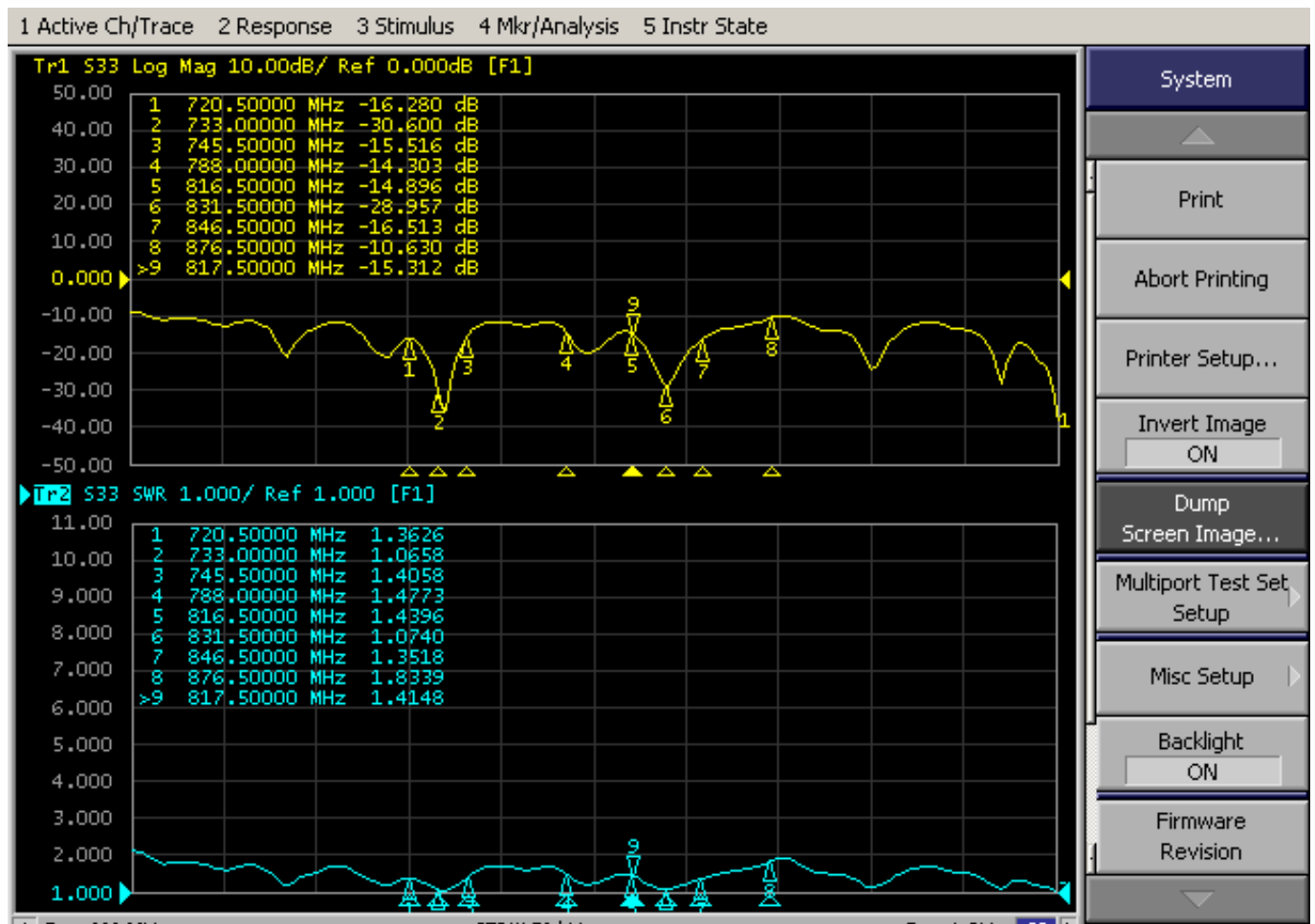
4. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
C3	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification	PASS
M1	Vibration	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
M4	Pull Test	Holding with individual specification; force applied to axis of Connector .	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$	PASS
M6	Sway test	Holding with individual specification; the swing joint and wire, wire and plastic body test.	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$	PASS
M7	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
E1	Waterproof	With Reference to IEC 60529 // IP Code Definition	Directive DUT specification	PASS
E2	Salt Spray	GB / T 2423.17-2008 Temp: 35°C; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
E3	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: $\geq 90\%$; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
E4	Thermal Shock	GB / T 2423.22 - 2008 - 40° C (30 minutes) to + 80° C (30 minutes) ; Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU	PASS

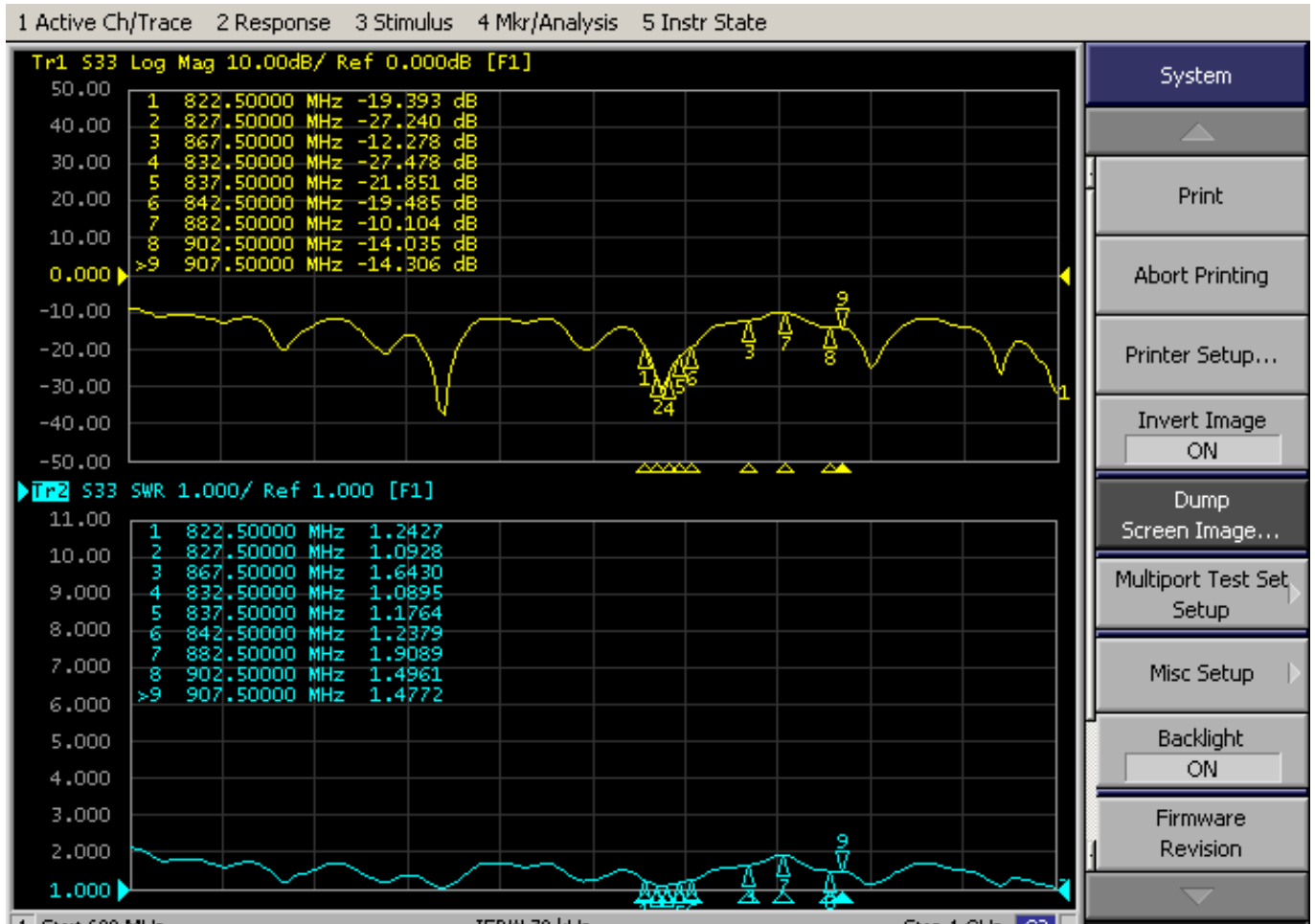
5. Antenna – Return Loss / VSWR Test Data

(@ on 30cmx30cmx0.1cm Metal Plate)

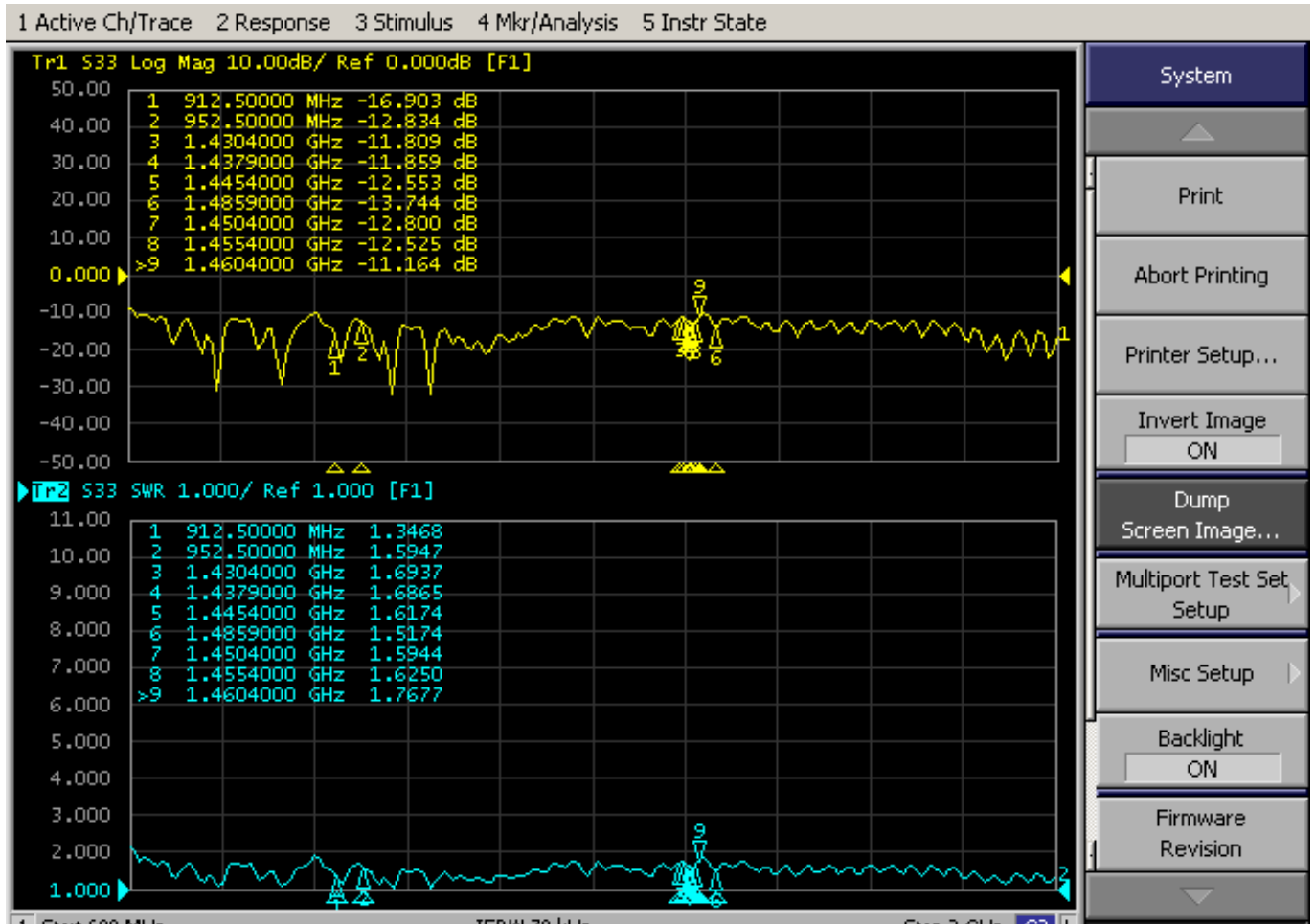
LTE/5G NR LTE1 (720.5-817.5MHz)



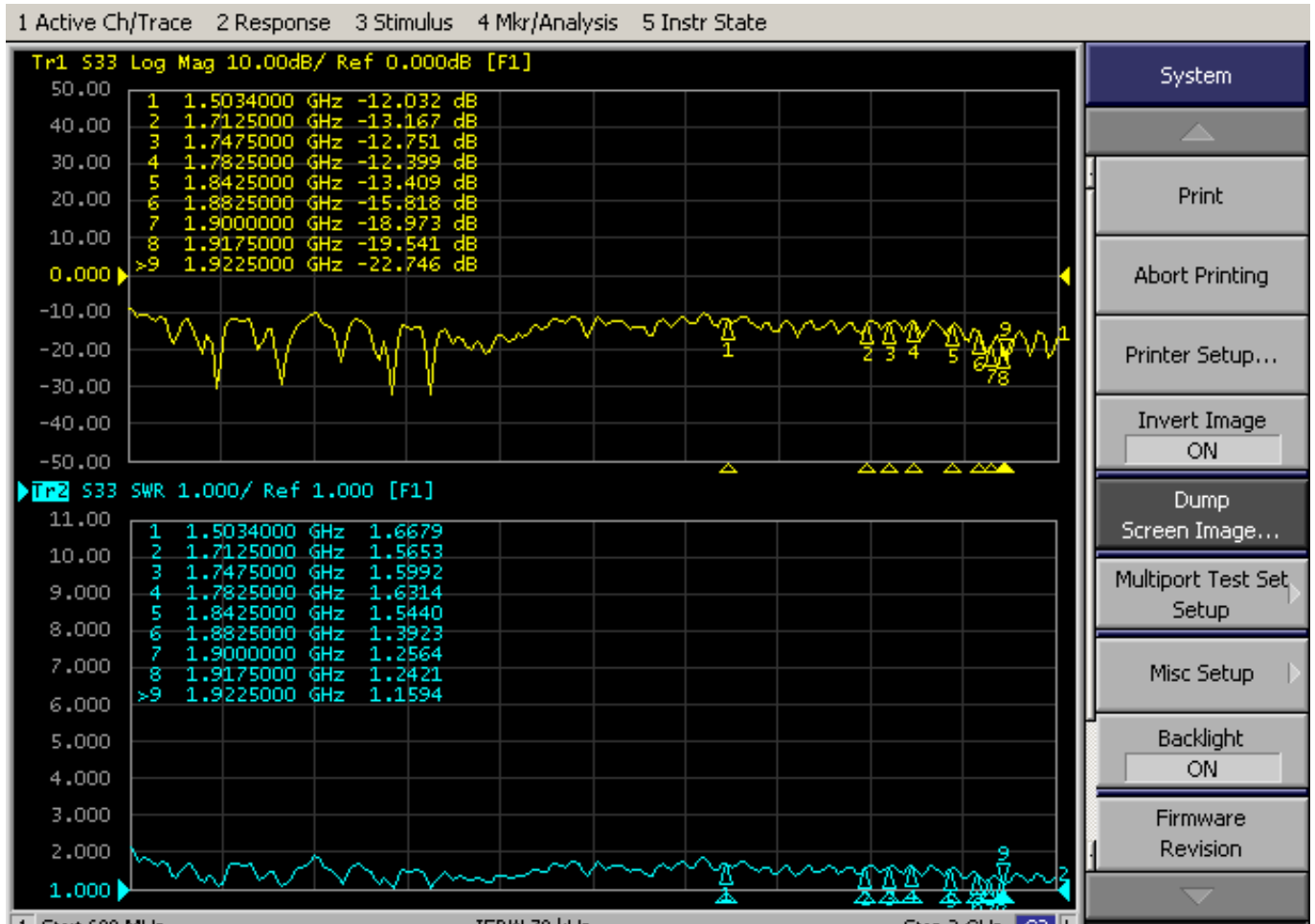
LTE/5G NR LTE1 (822.5-907.5MHz)



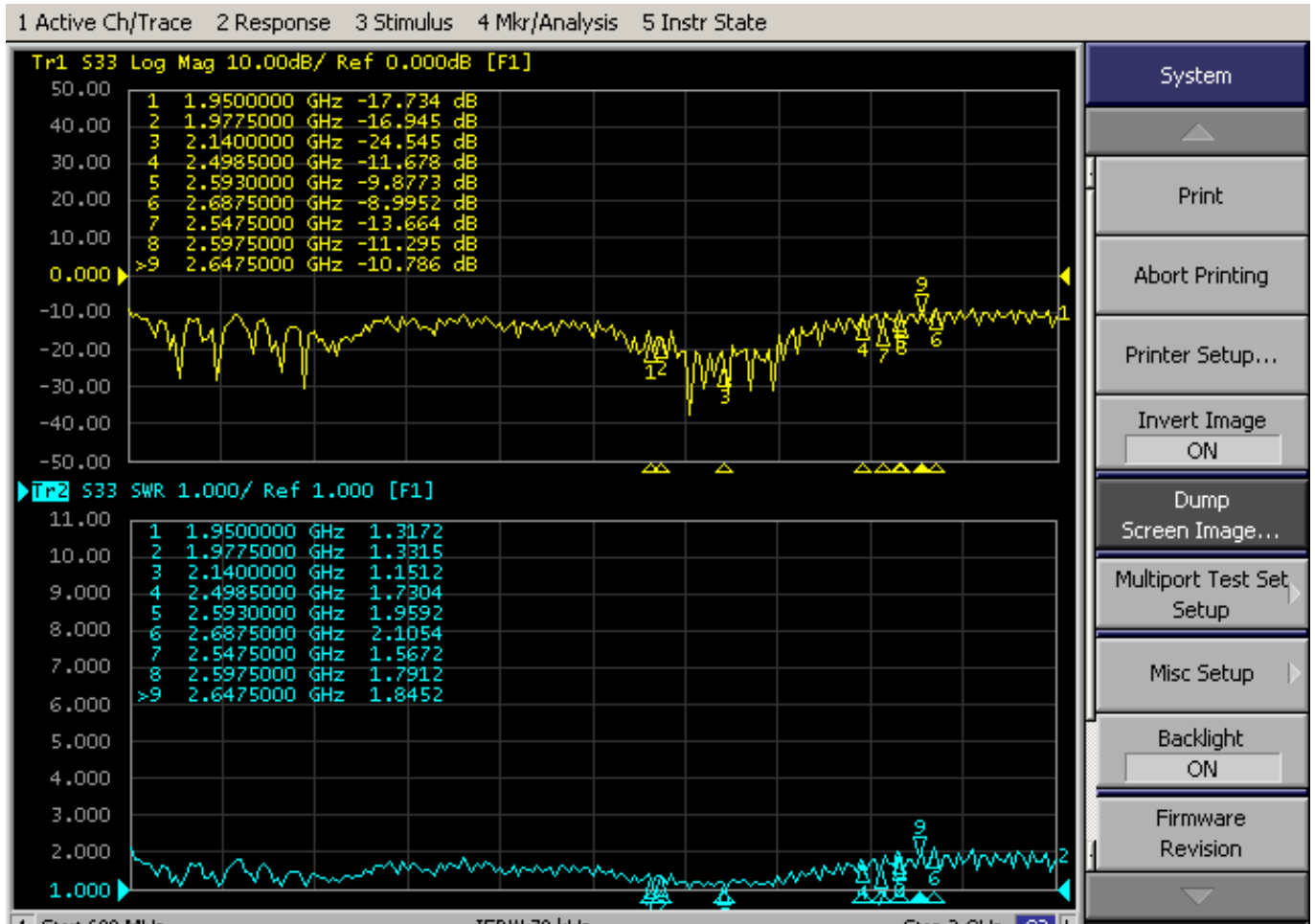
LTE/5G NR LTE1 (912.5-1460MHz)



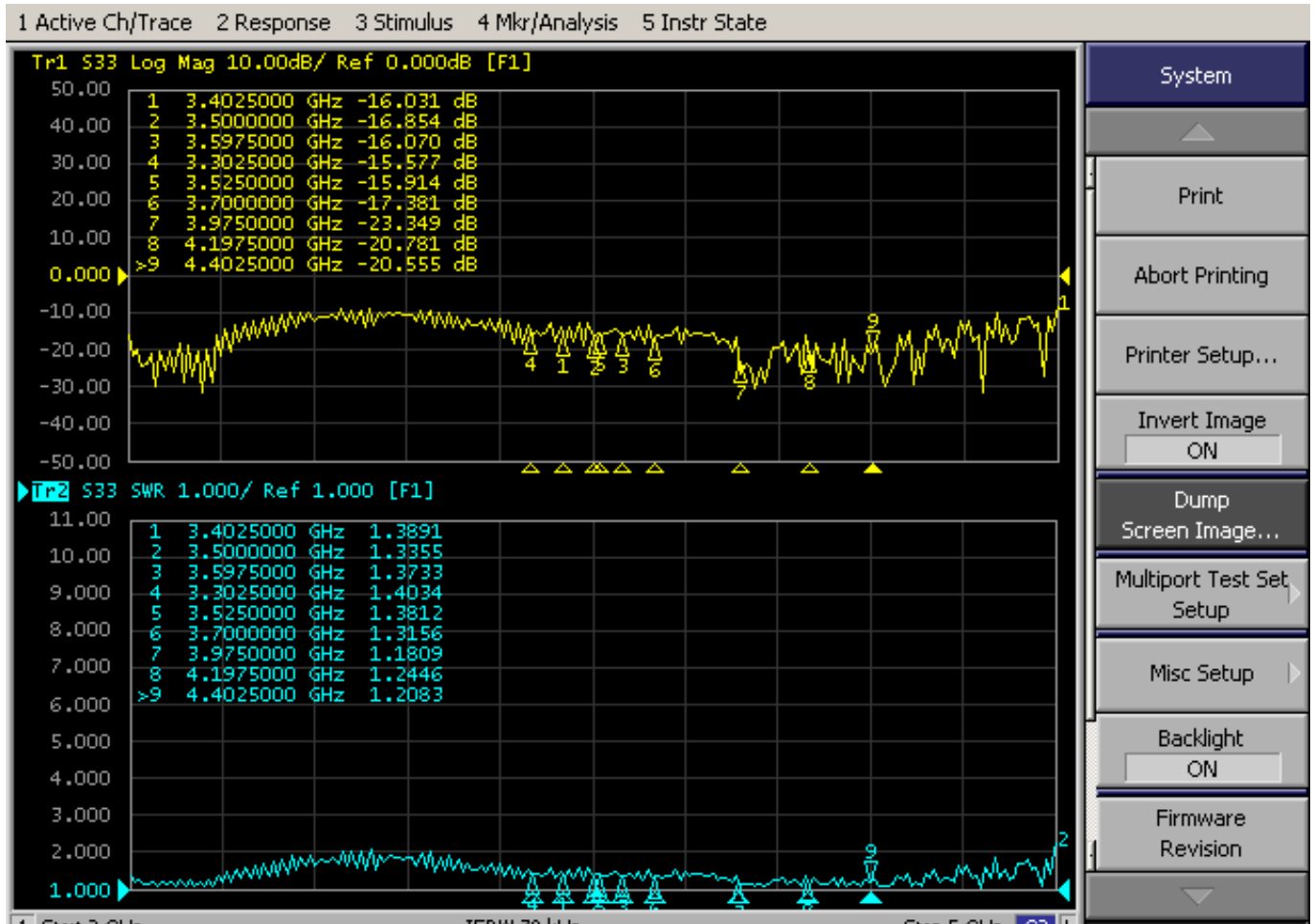
LTE/5G NR LTE1 (1503-1922MHz)



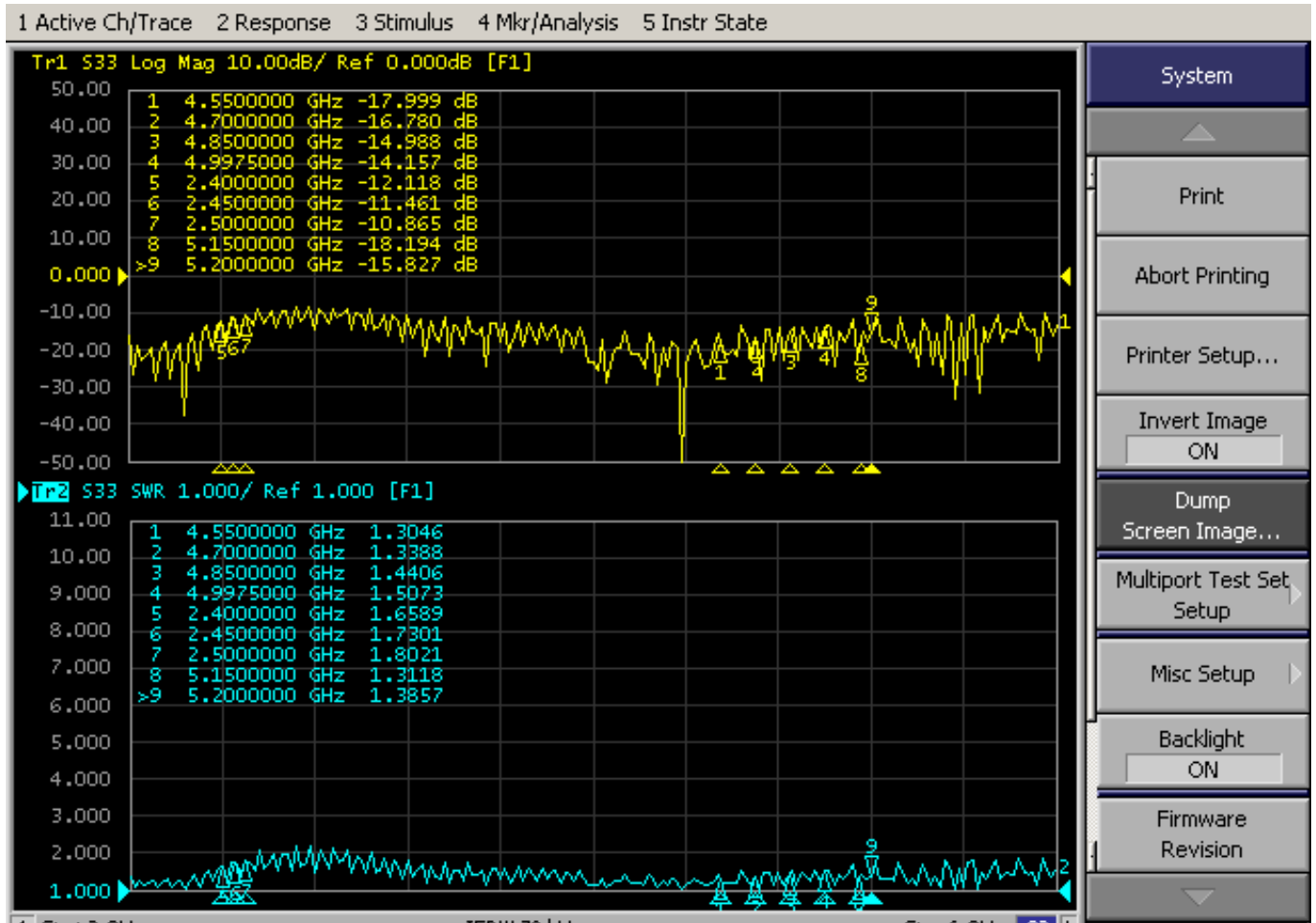
LTE/5G NR LTE1 (1950-2647MHz)



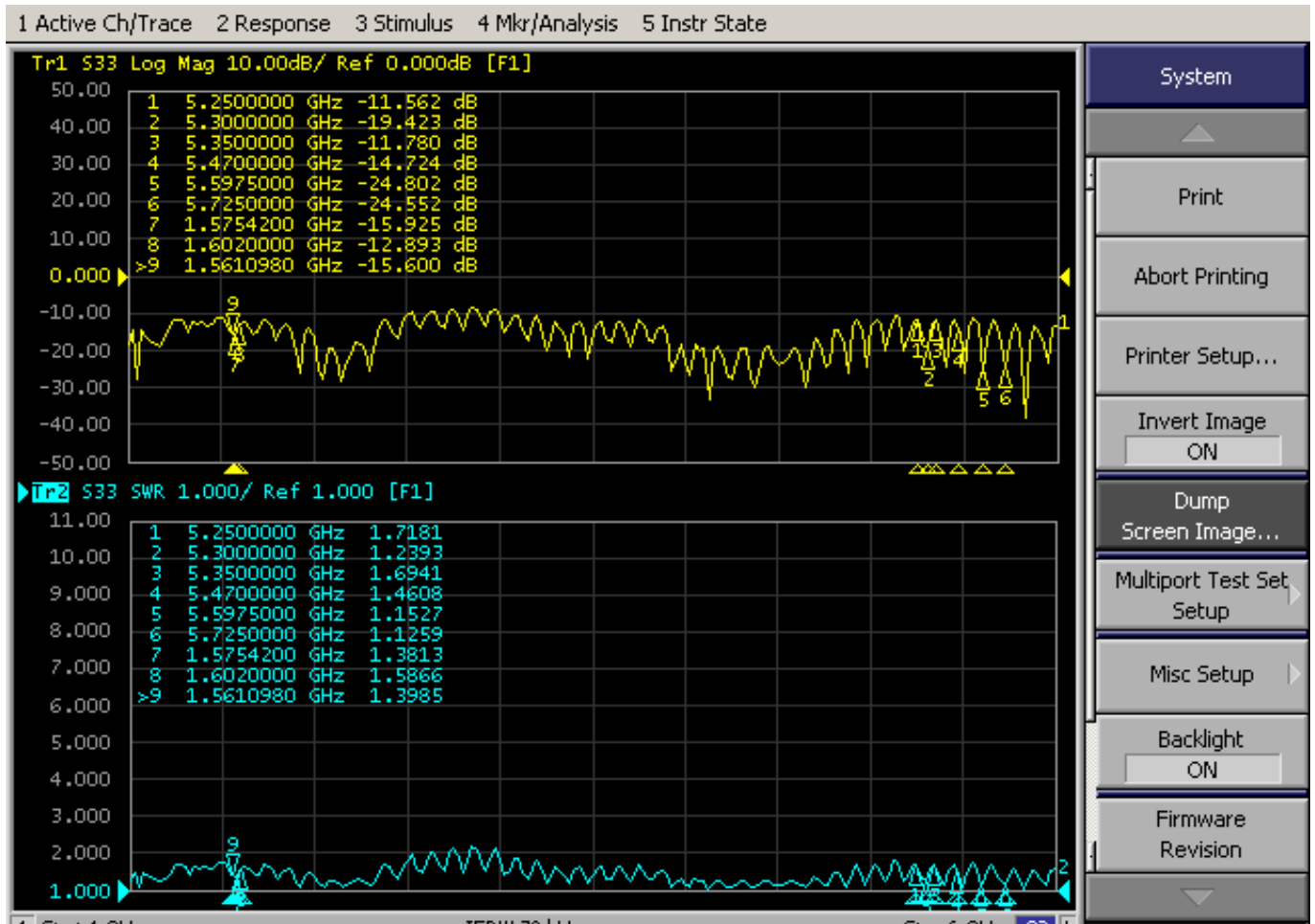
LTE/5G NR LTE1 (3402-4402MHz)



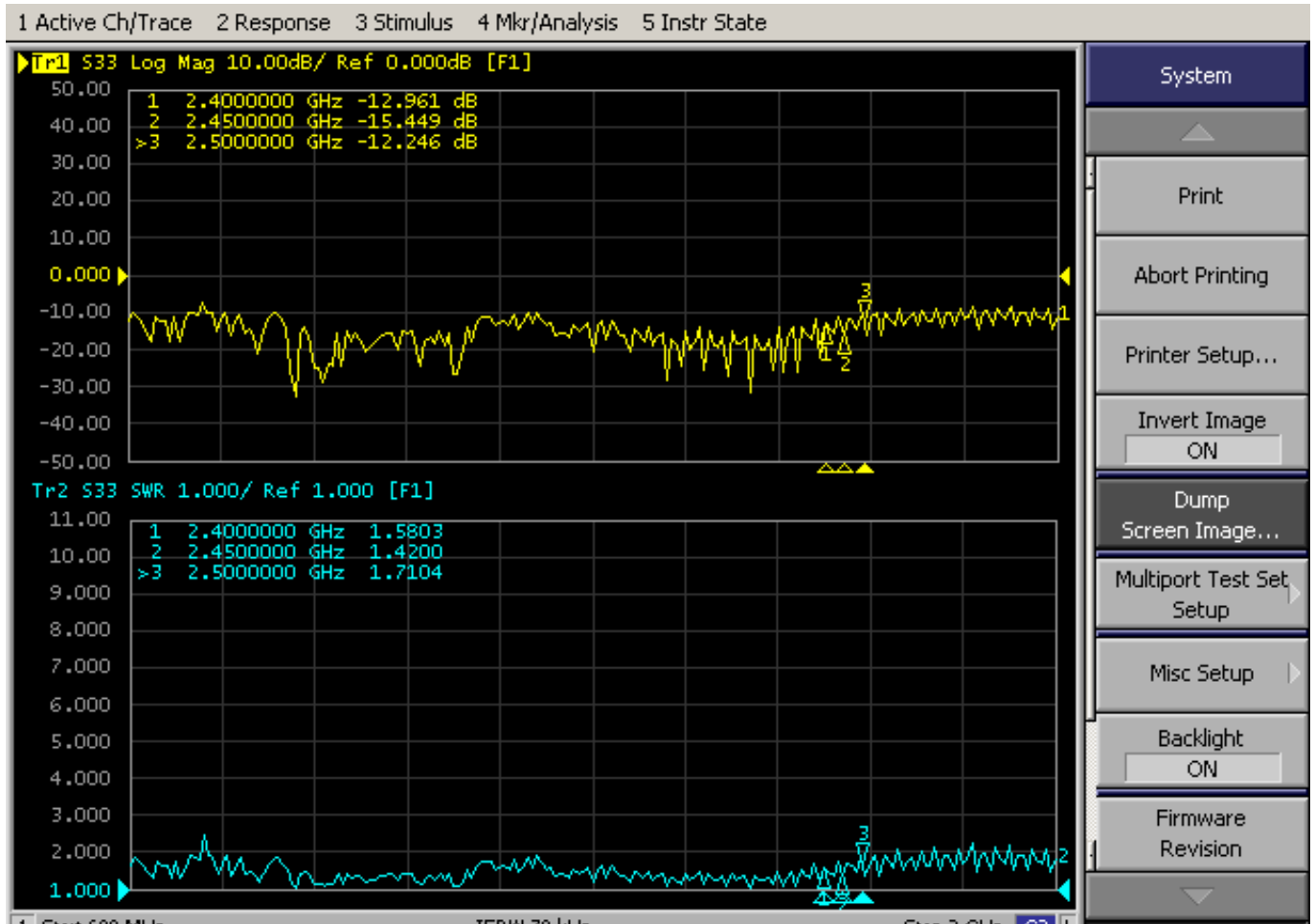
LTE/5G NR LTE1 (4550-5200MHz)



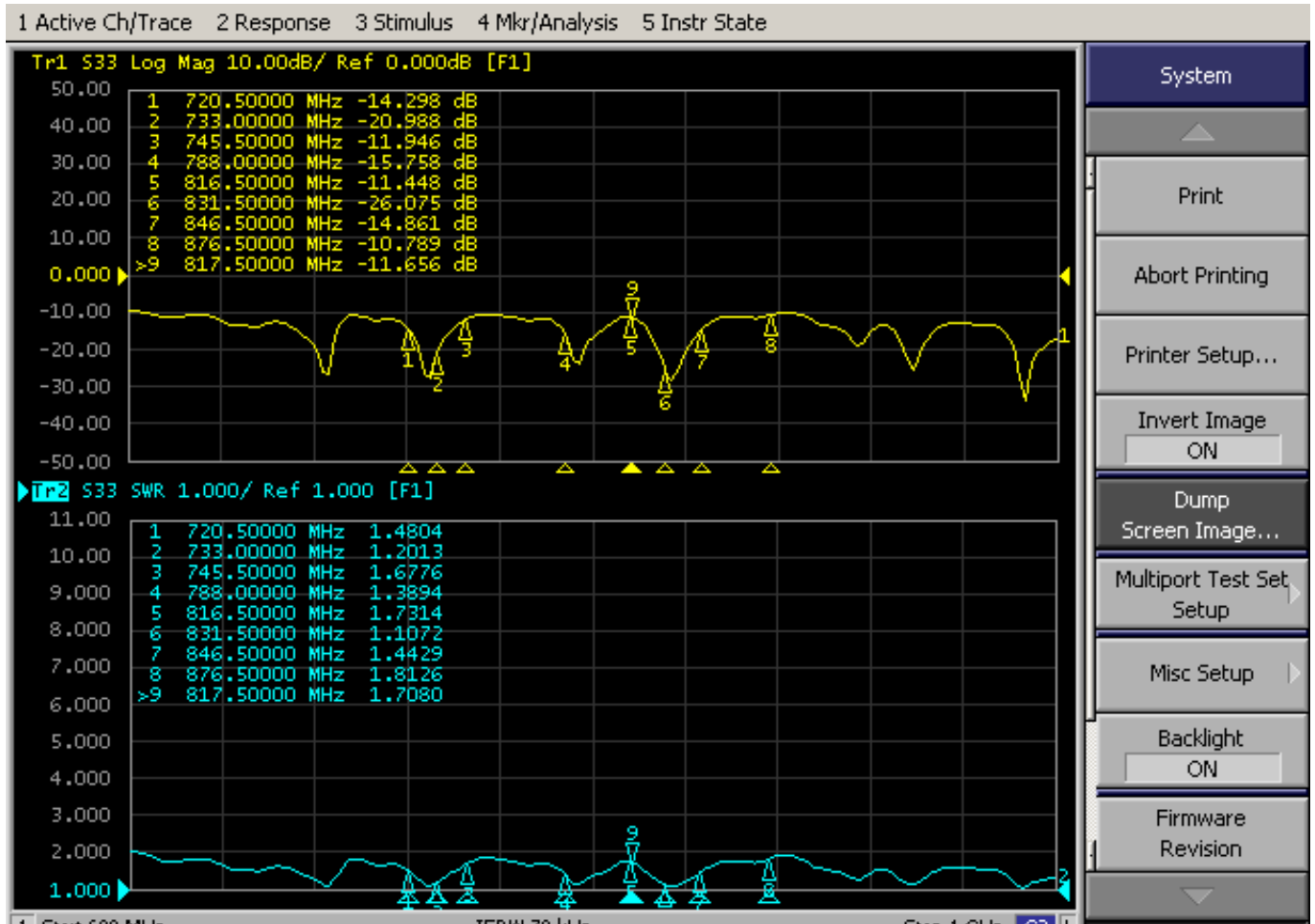
LTE/5G NR LTE1 (5250-5725MHz) (1575-1561MHz)



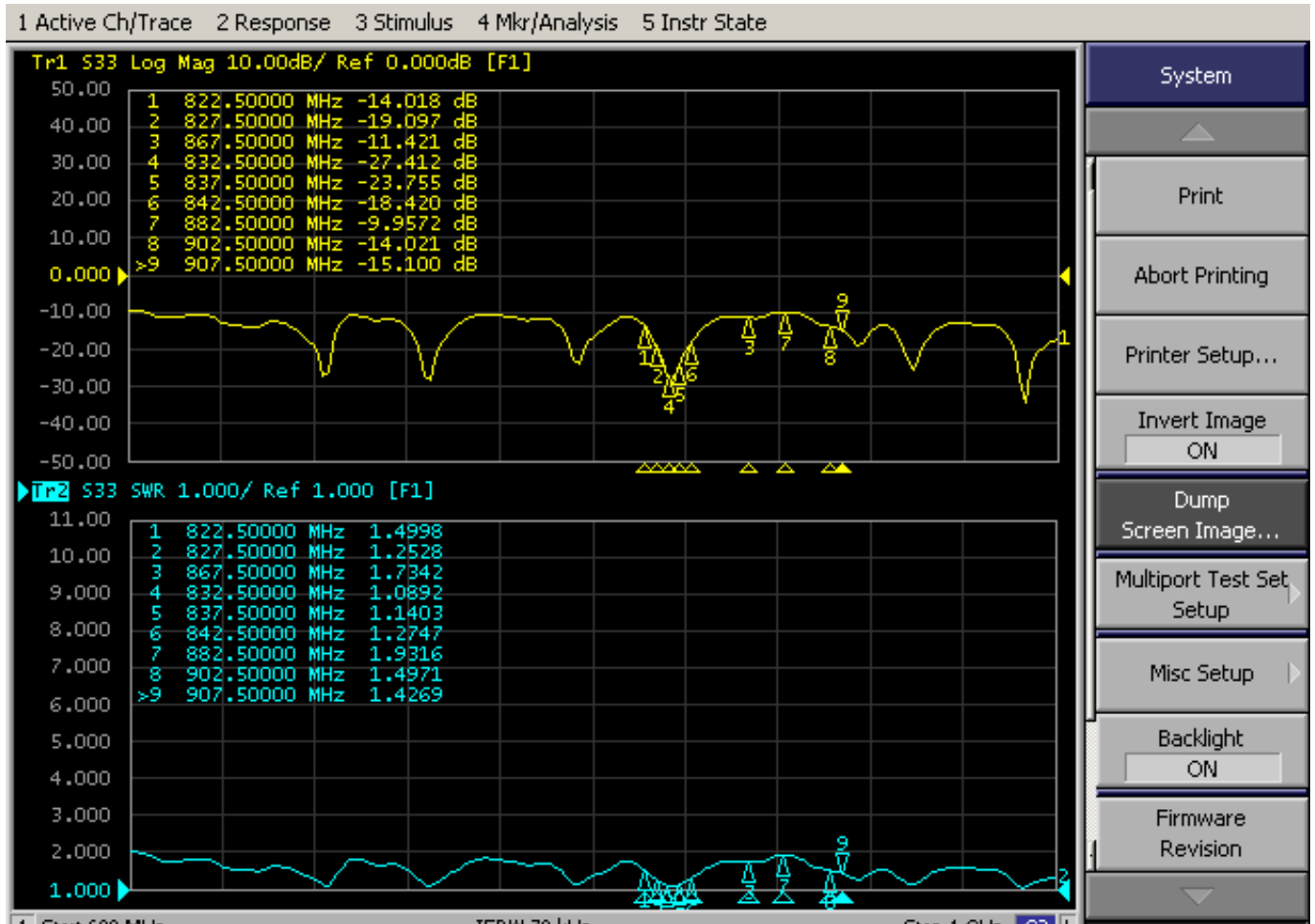
LTE/5G NR LTE1 (2400-2500MHz)



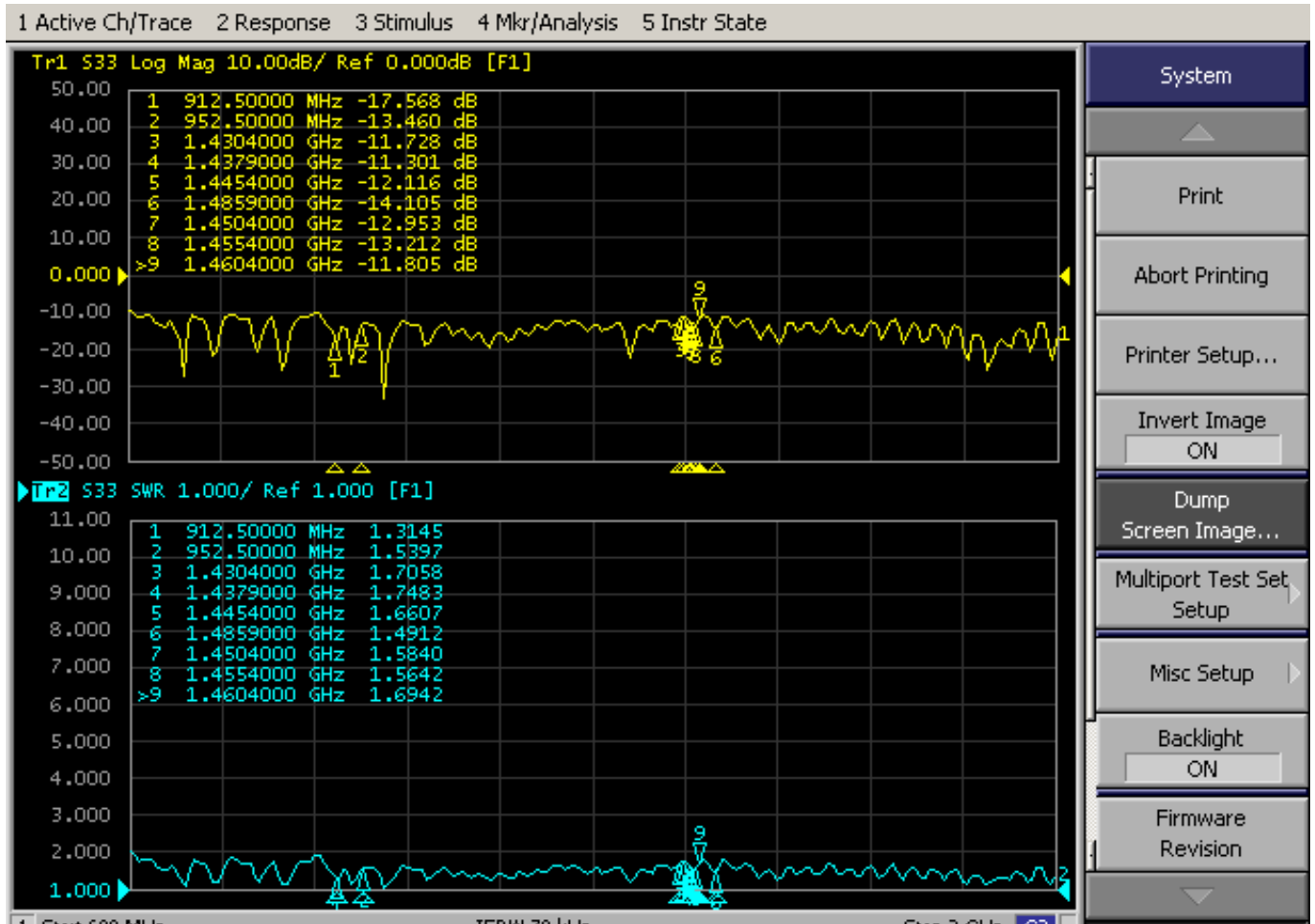
LTE/5G NR LTE2 (720.5-817.5MHz)



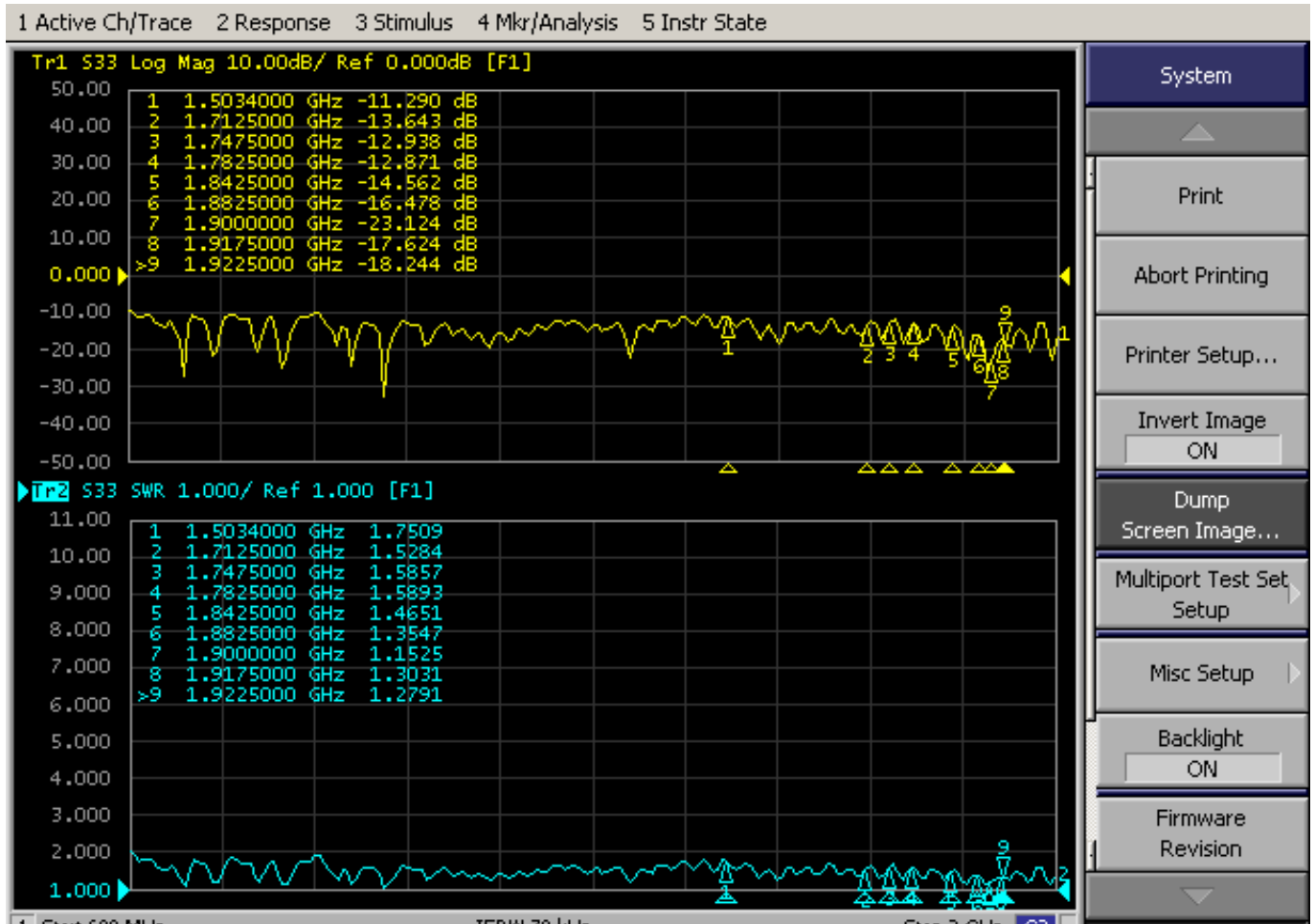
LTE/5G NR LTE2 (822.5-907.5MHz)



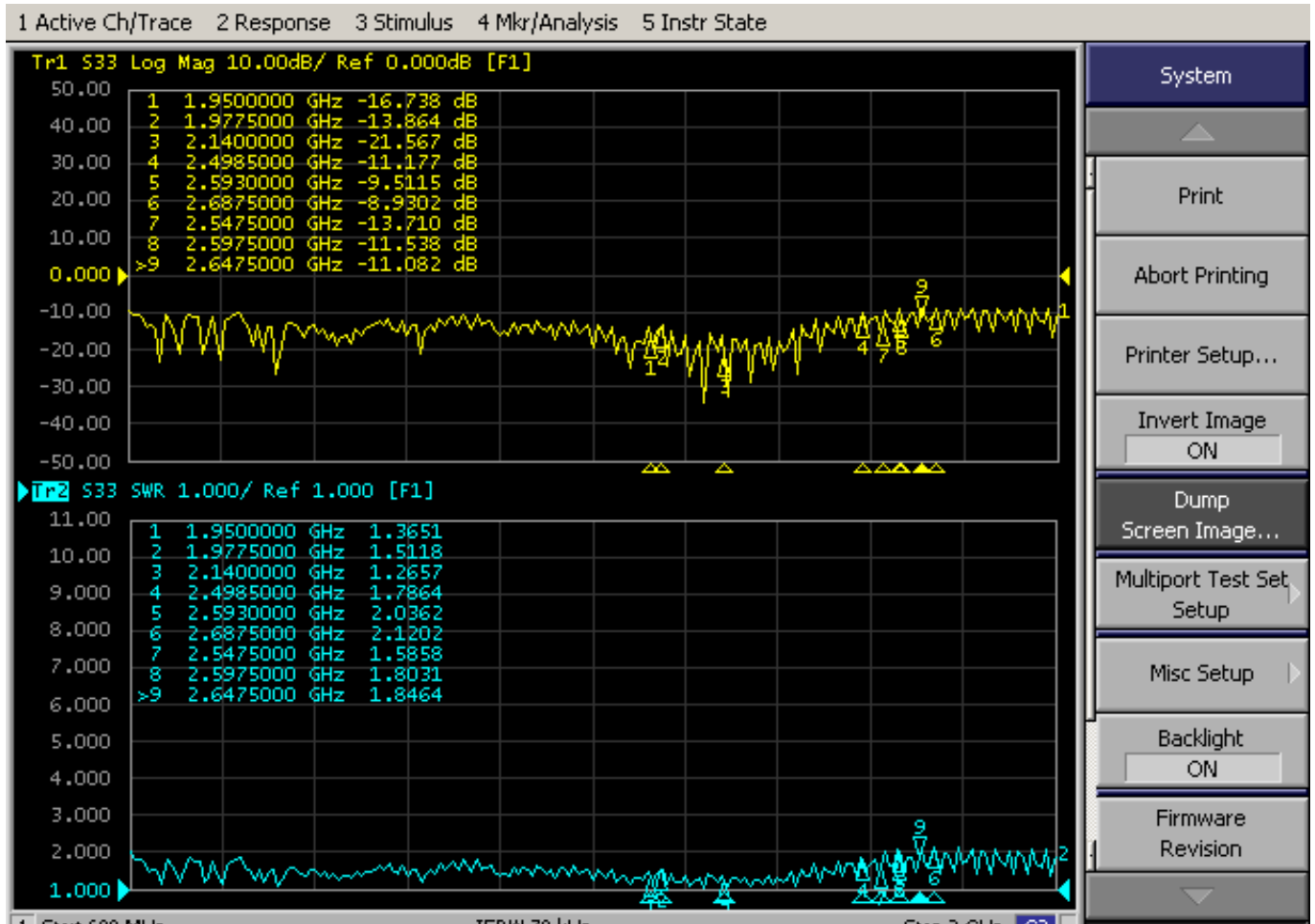
LTE/5G NR LTE2 (912.5-1460MHz)



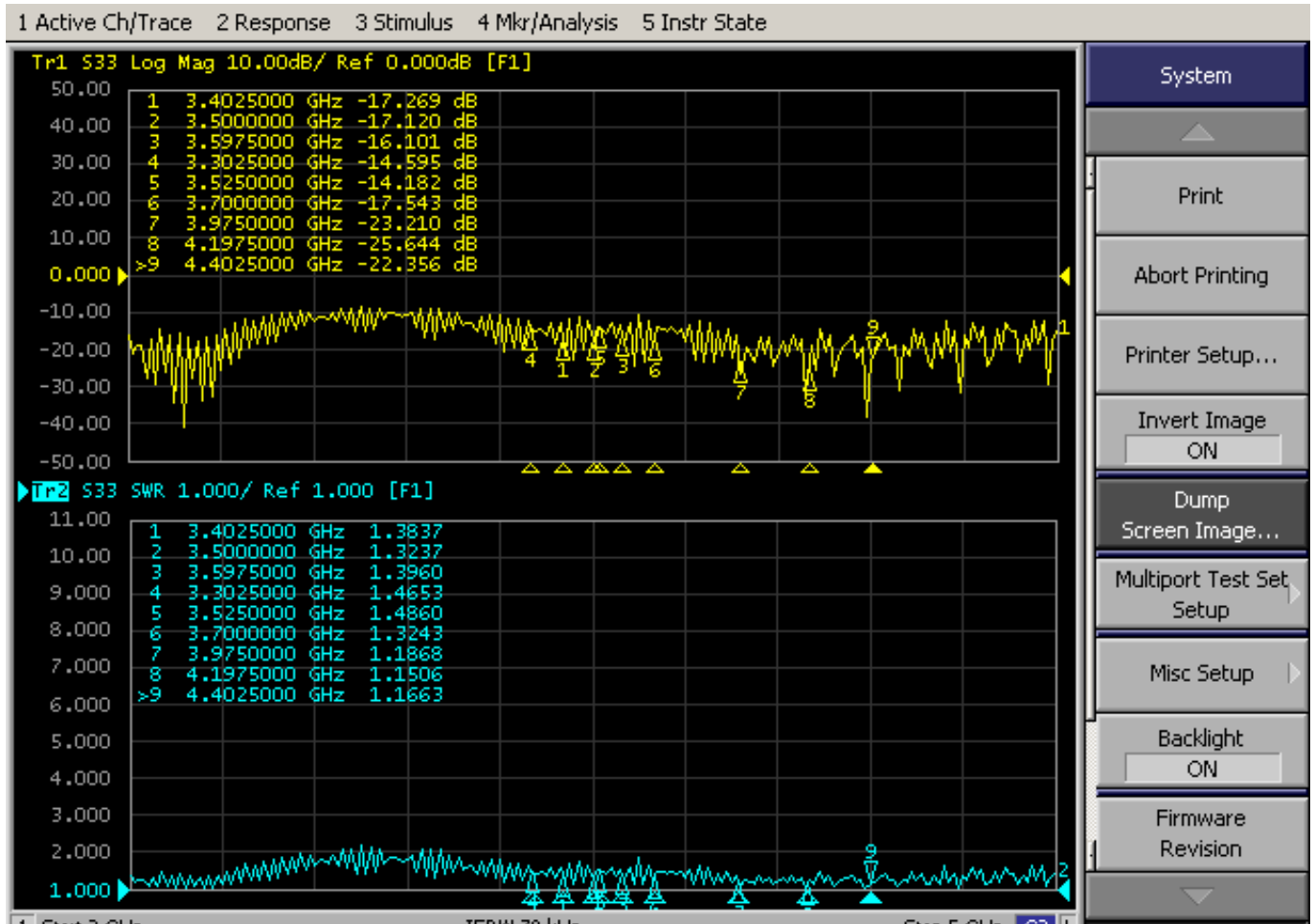
LTE/5G NR LTE2 (1503-1922MHz)



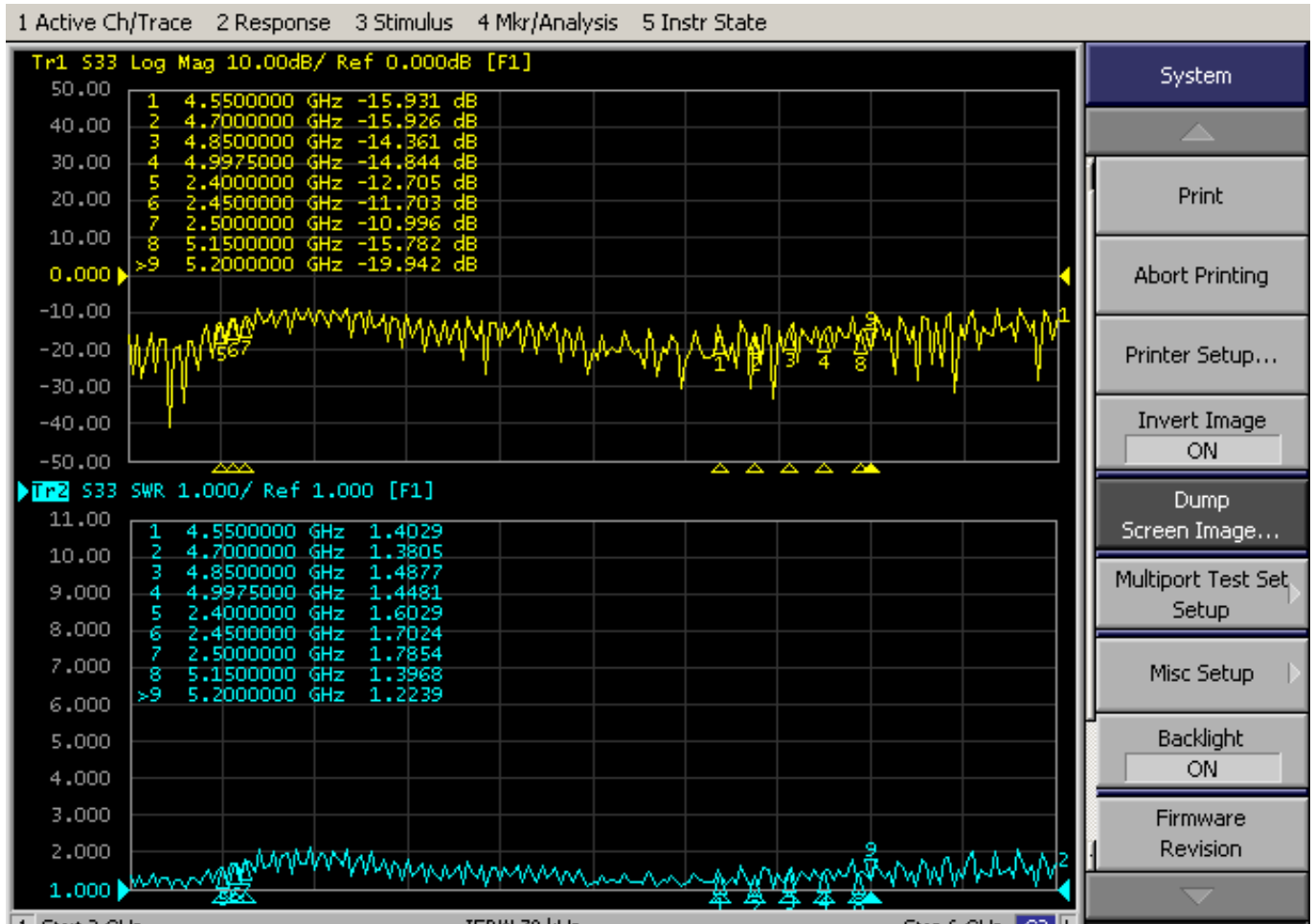
LTE/5G NR LTE2 (1950-2647MHz)



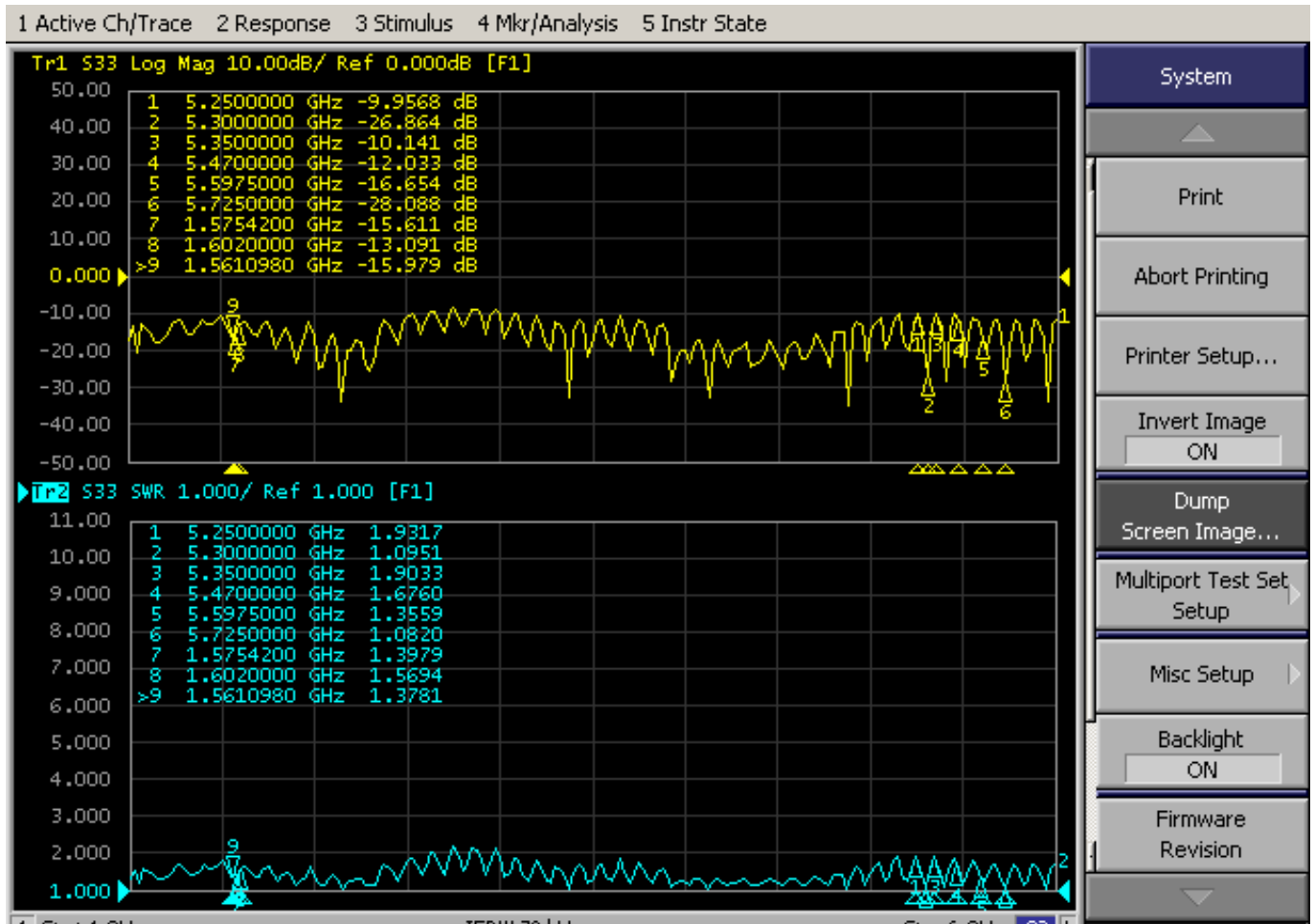
LTE/5G NR LTE2 (3402-4402MHz)



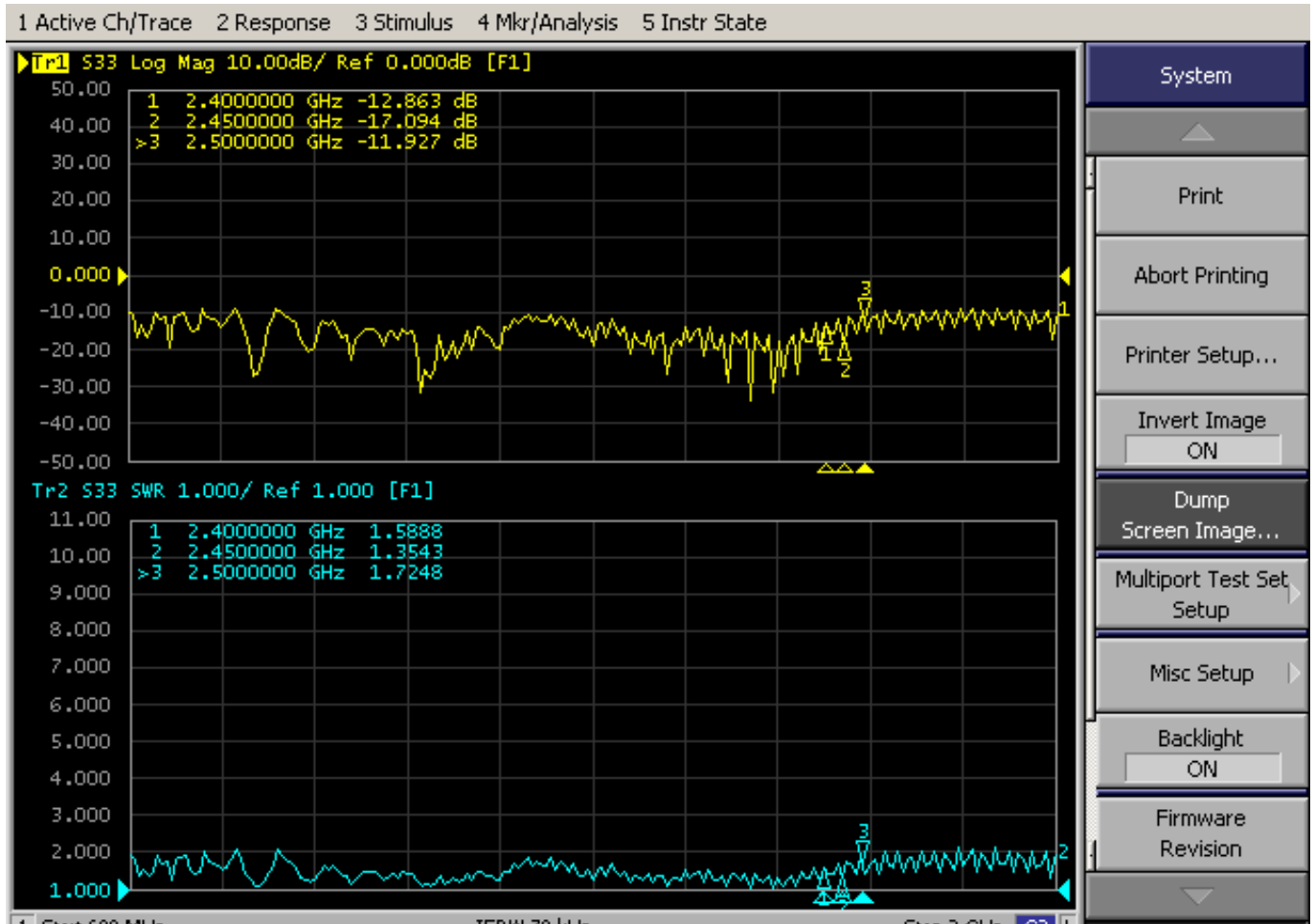
LTE/5G NR LTE2 (4550-5200MHz)



LTE/5G NR LTE2 (5250-5725MHz) (1575-1561 MHz)



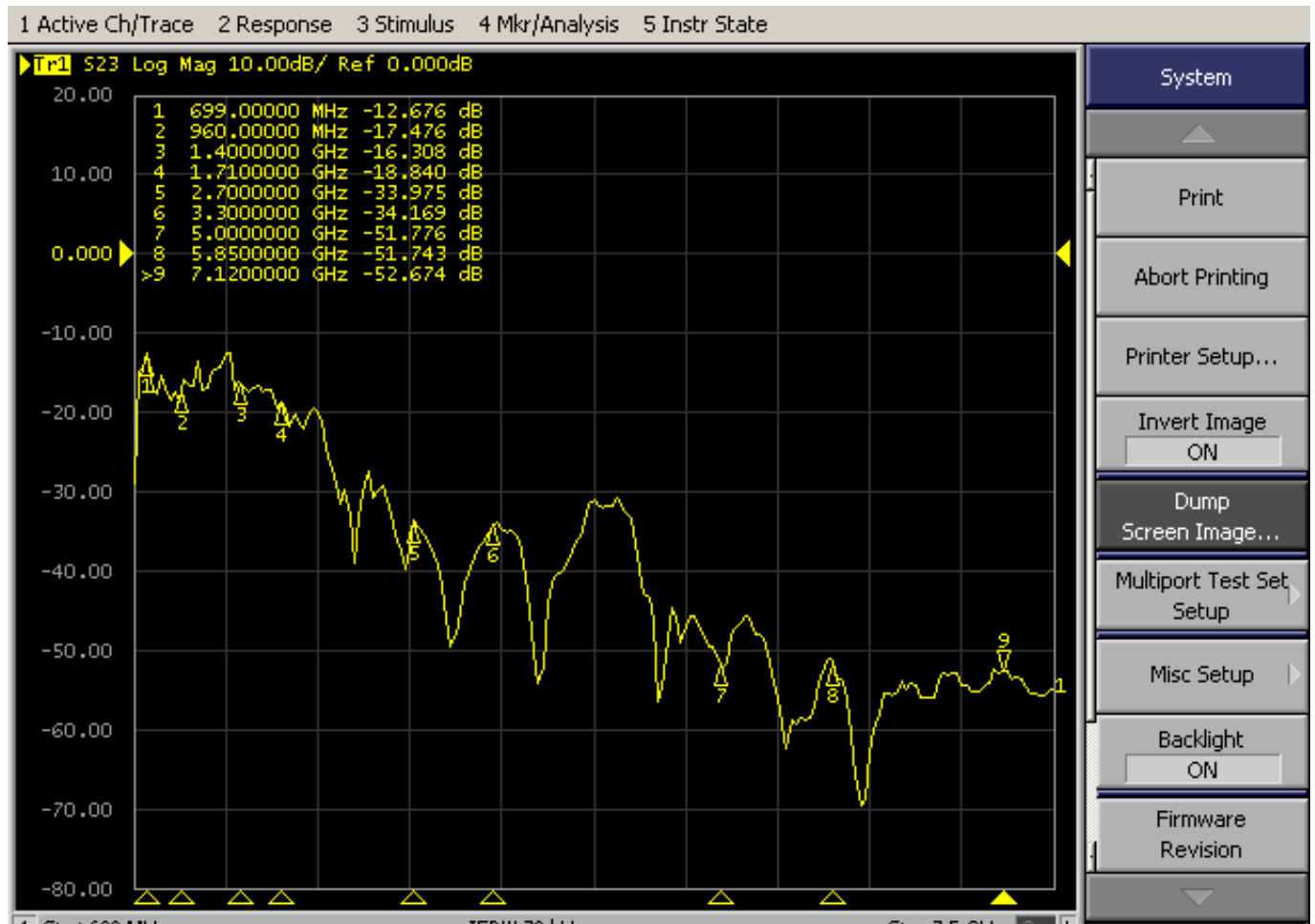
LTE/5G NR LTE2 (2400-2500MHz)



6. Antenna – Isolation Test Data

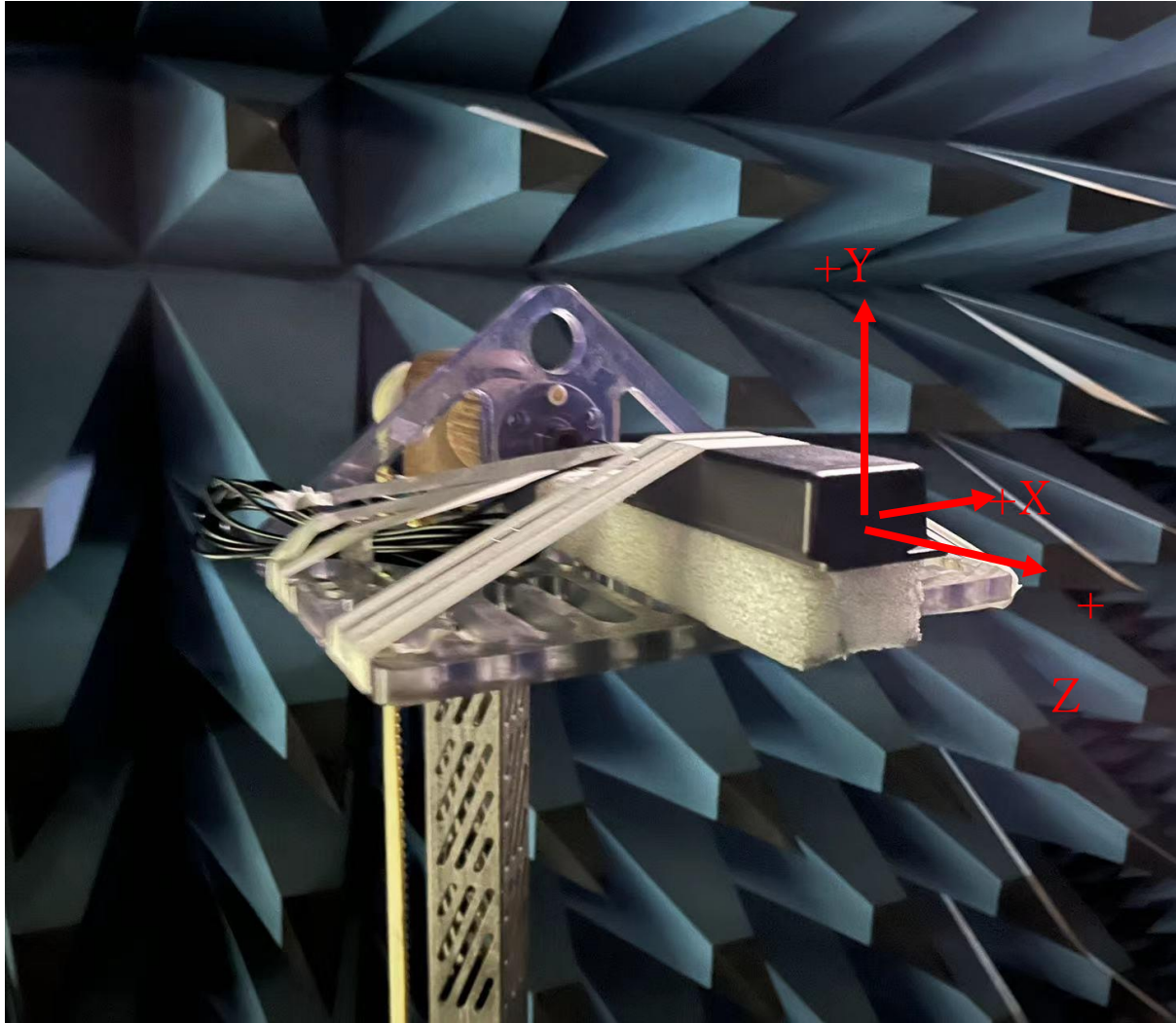
(@ on 30cmx30cmx0.1cm Metal Plate)

< Isolation Loss LTE1-LTE2 >

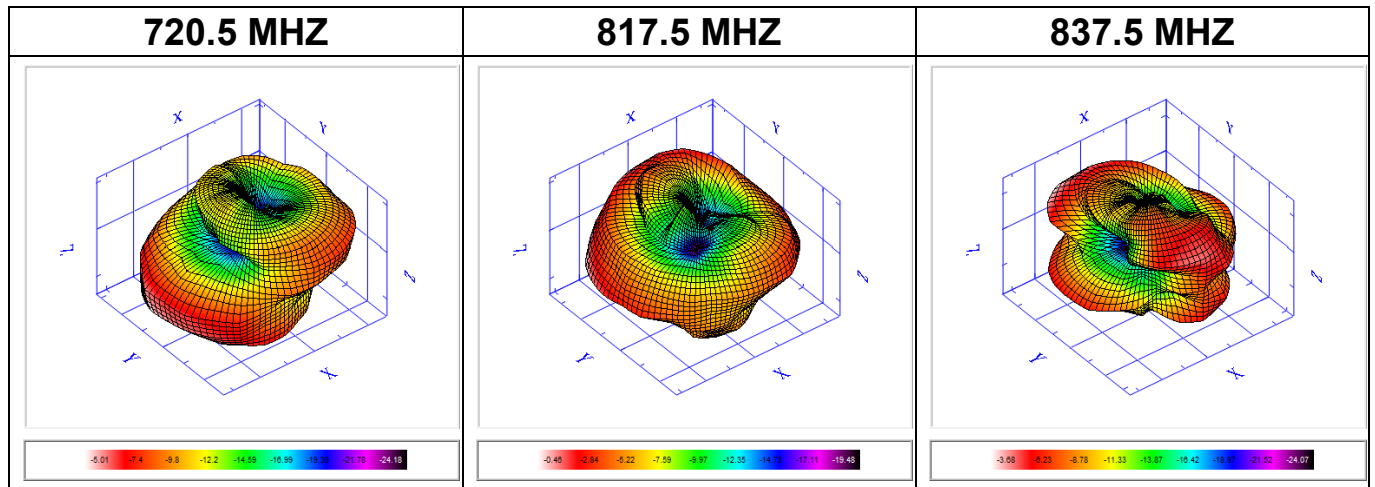


7. Antenna – 3D Radiation Pattern / Peak Gain Test Data (@ Free Space)

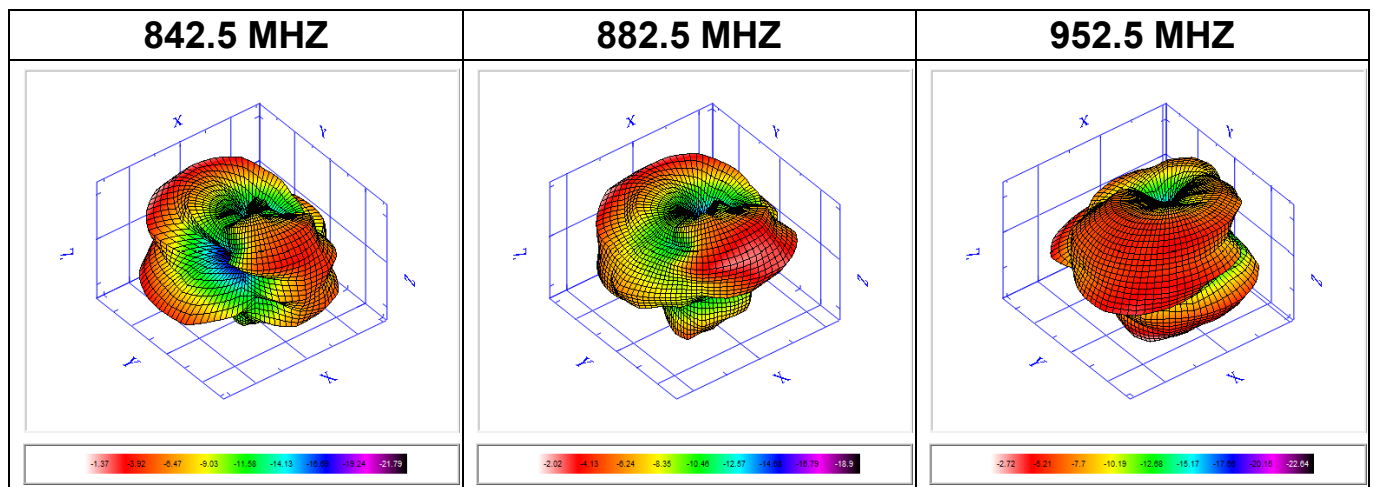
Chamber Setup and Angle Definition



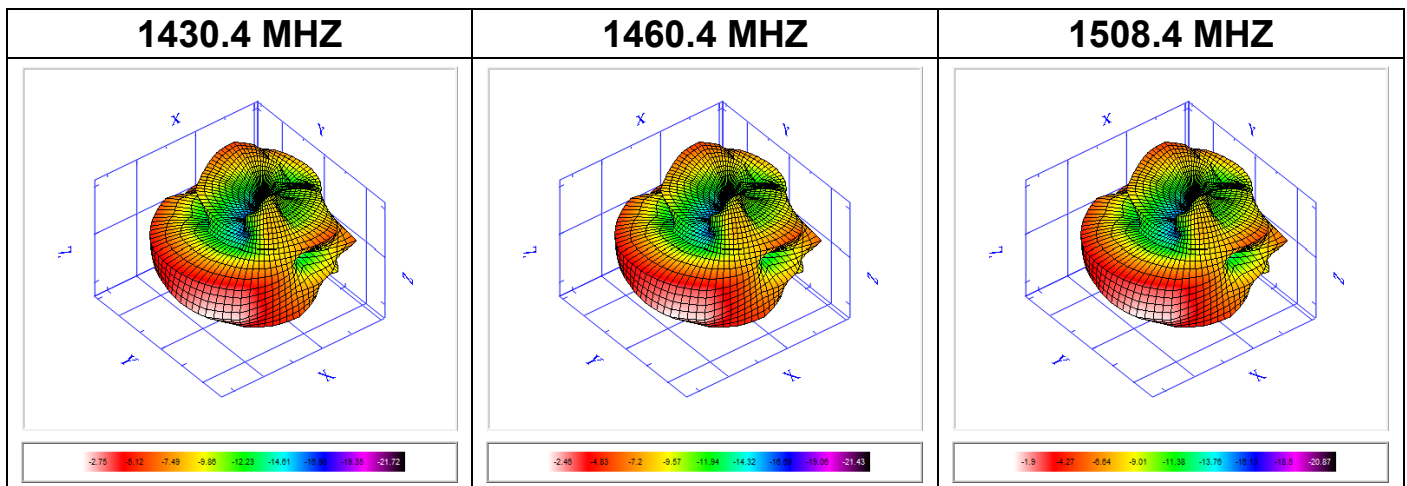
LTE/5G LTE1



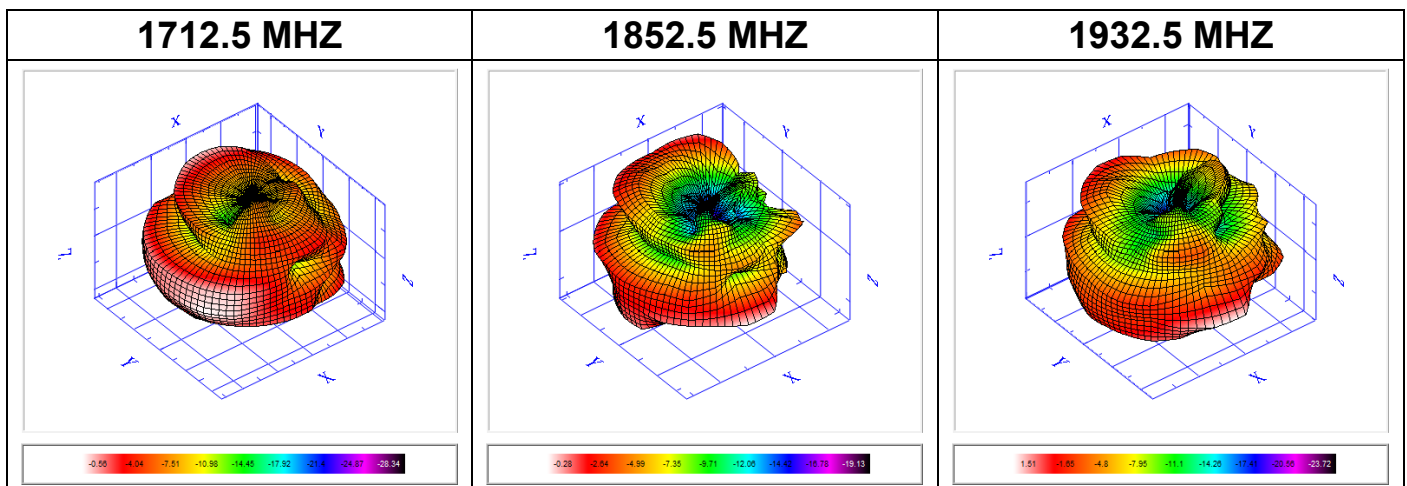
Frequency	720.5	733.5	745.5	788	816.5	817.5	822.5	827.5	831.5	832.5	837.5
E-Total Peak Gain (dBi)	-5.01	-0.34	-1.97	-1.64	-0.46	-0.46	-0.89	-2.22	-2.69	-2.92	-3.68
Efficiency (%)	9.59	22.1	21.97	25.45	29.86	29.53	25.73	18.78	13.69	12.77	13.42
Average Gain (dB)	-10.18	-6.56	-6.58	-5.94	-5.25	-5.3	-5.9	-7.26	-8.63	-8.94	-8.72



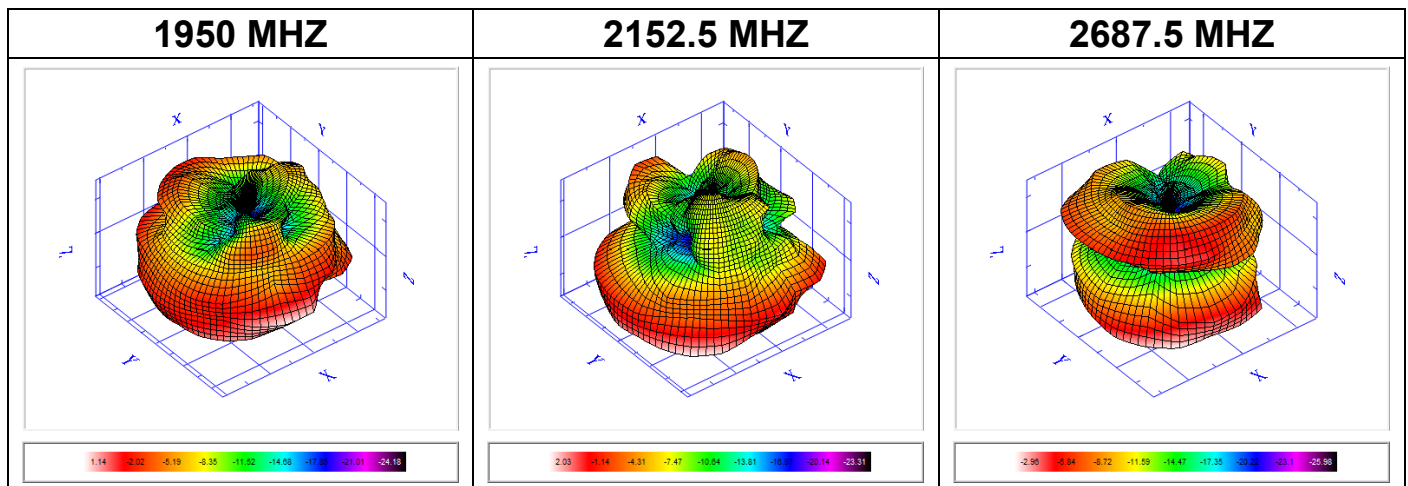
Frequency	842.5	846.5	867.5	876.5	882.5	902.5	907.5	912.5	952.5
E-Total Peak Gain (dBi)	-1.37	-0.72	-2.06	-3.02	-2.02	-4.29	-4.5	-2.85	-2.72
Efficiency (%)	18.19	20.45	21.76	18.93	19.61	12.42	11.3	18.66	14.96
Average Gain (dB)	-7.4	-6.89	-6.62	-7.23	-7.08	-9.06	-9.47	-7.29	-8.25



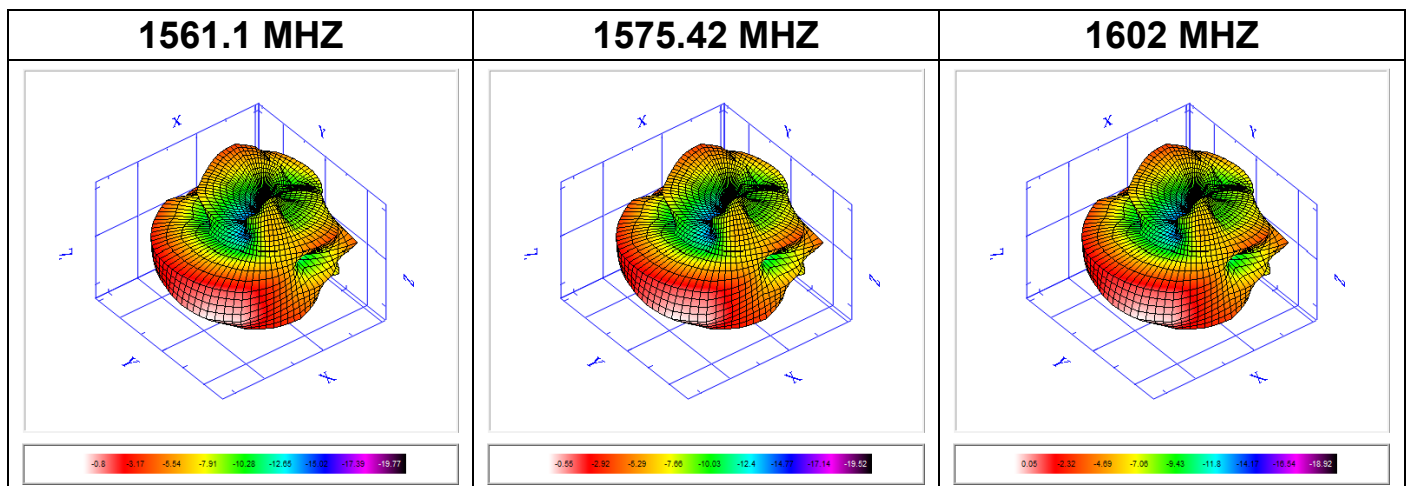
Frequency	1430.4	1437.9	1445.4	1450.4	1455.4	1460.4	1479.4	1485.9	1493.4	1498.4	1503.4	1508.4
E-Total Peak Gain (dBi)	-2.75	-2.68	-2.6	-2.56	-2.51	-2.46	-2.27	-2.21	-2.14	-2.09	-2	-1.9
Efficiency (%)	11.23	11.42	11.61	11.74	11.88	12.01	12.53	12.71	12.93	13.07	13.34	13.66
Average Gain (dB)	-9.5	-9.42	-9.35	-9.3	-9.25	-9.2	-9.02	-8.96	-8.88	-8.84	-8.75	-8.64



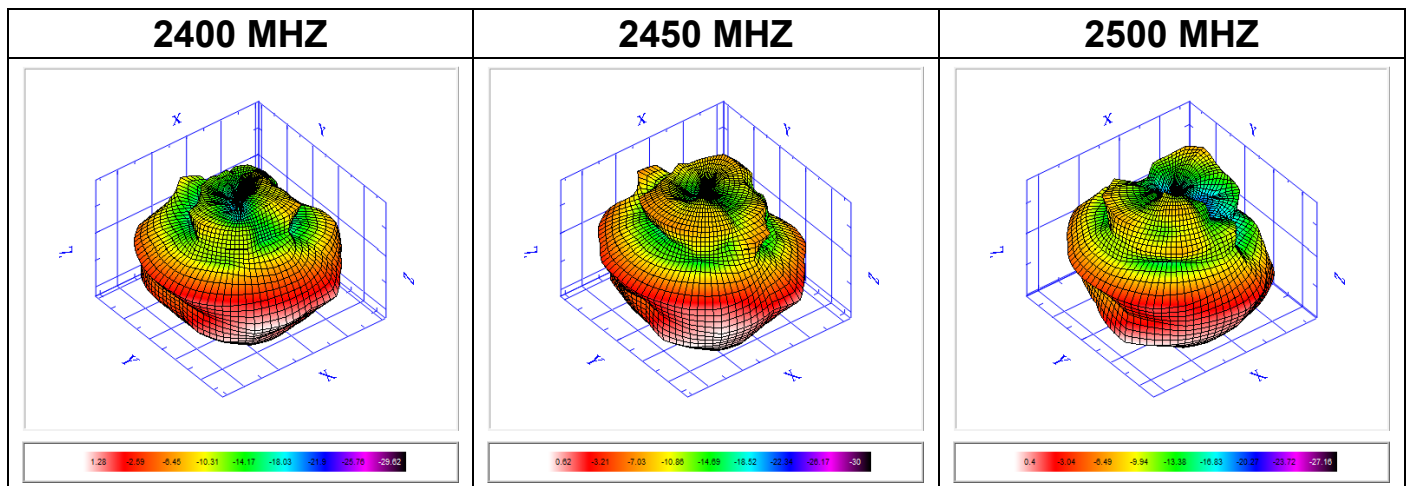
Frequency	1712.5	1732.5	1747.5	1752.5	1782.5	1807.5	1842.5	1852.5	1872.5	1877.5	1882.5	1900	1907.5	1917.5	1922.5	1932.5
E-Total Peak Gain (dBi)	-0.56	-1.75	-1.48	-1.98	-0.79	-0.75	-1.03	-0.28	0.69	0.64	0.75	1.39	0.76	0.68	0.92	1.51
Efficiency (%)	25.1	24.06	25.18	23.78	25.02	23.08	22.27	23.65	22.8	22.48	23.22	24.97	22.25	24.08	23.75	24.55
Average Gain (dB)	-6	-6.19	-5.99	-6.24	-6.02	-6.37	-6.52	-6.26	-6.42	-6.48	-6.34	-6.03	-6.53	-6.18	-6.24	-6.1



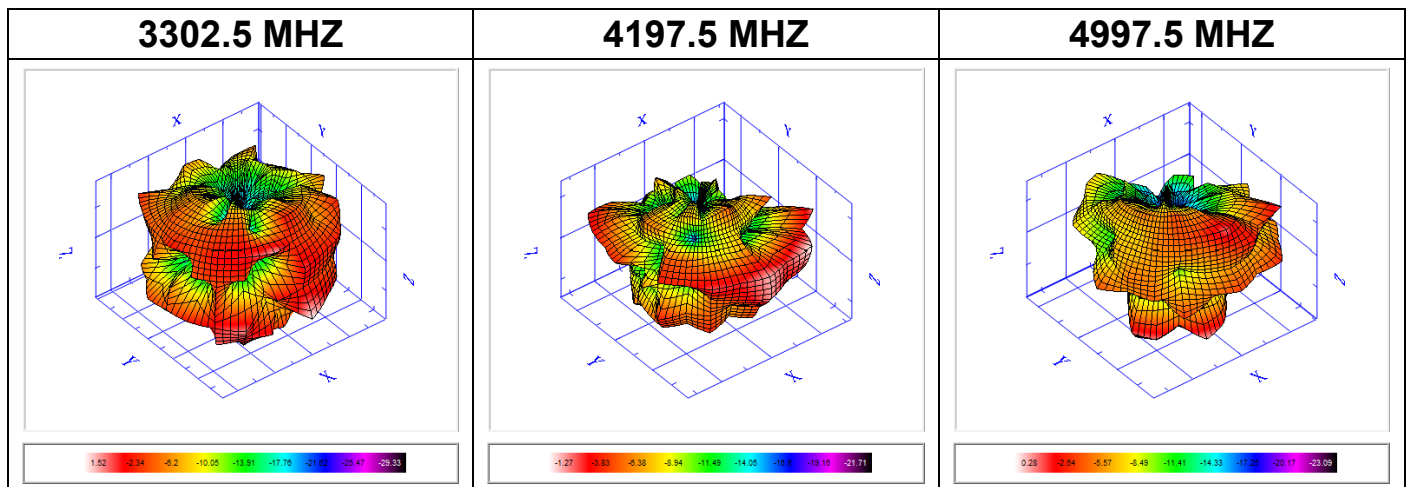
Frequency	1950	1960	1977.5	1980	1987.5	2112.5	2132.5	2140	2152.5	2167.5	2498.5	2547.5	2593	2597.5	2647.5	2687.5
E-Total Peak Gain (dBi)	1.14	0.47	0.55	0.64	1.03	1.55	1.2	1.44	2.03	2.01	0.43	0.54	0.41	-0.09	-0.9	-2.96
Efficiency (%)	24.18	23.83	23.23	23.65	24.52	23.47	23.37	23.58	24.14	22.18	18.15	17.96	14.4	12.83	12.91	9
Average Gain (dB)	-6.16	-6.23	-6.34	-6.26	-6.11	-6.3	-6.31	-6.28	-6.17	-6.54	-7.41	-7.46	-8.42	-8.92	-8.89	-10.46



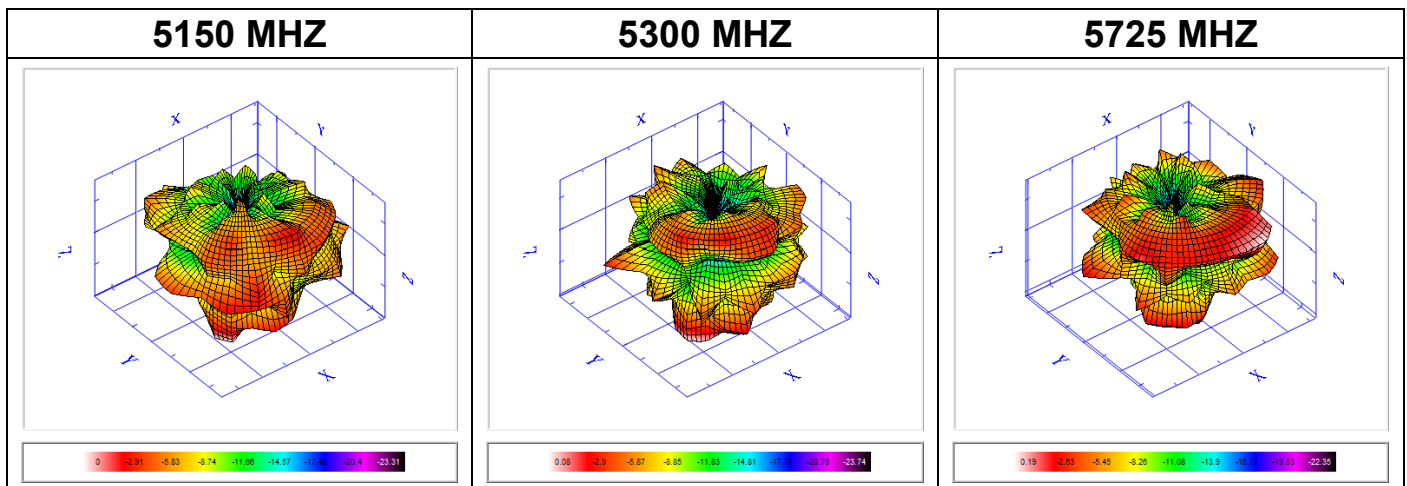
Frequency	1561.1	1575.42	1602
E-Total Peak Gain (dBi)	-0.8	-0.55	0.05
Efficiency (%)	17.62	18.66	21.42
Average Gain (dB)	-7.54	-7.29	-6.69



Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
E-Total Peak Gain (dBi)	1.28	1.36	1.84	1.84	0.53	0.62	0.08	-0.53	0.26	0.26	0.4
Efficiency (%)	19.87	18.39	19.55	21.42	17.48	18.95	17.67	18.25	20.38	17.91	18.42
Average Gain (dB)	-7.02	-7.35	-7.09	-6.69	-7.57	-7.22	-7.53	-7.39	-6.91	-7.47	-7.35

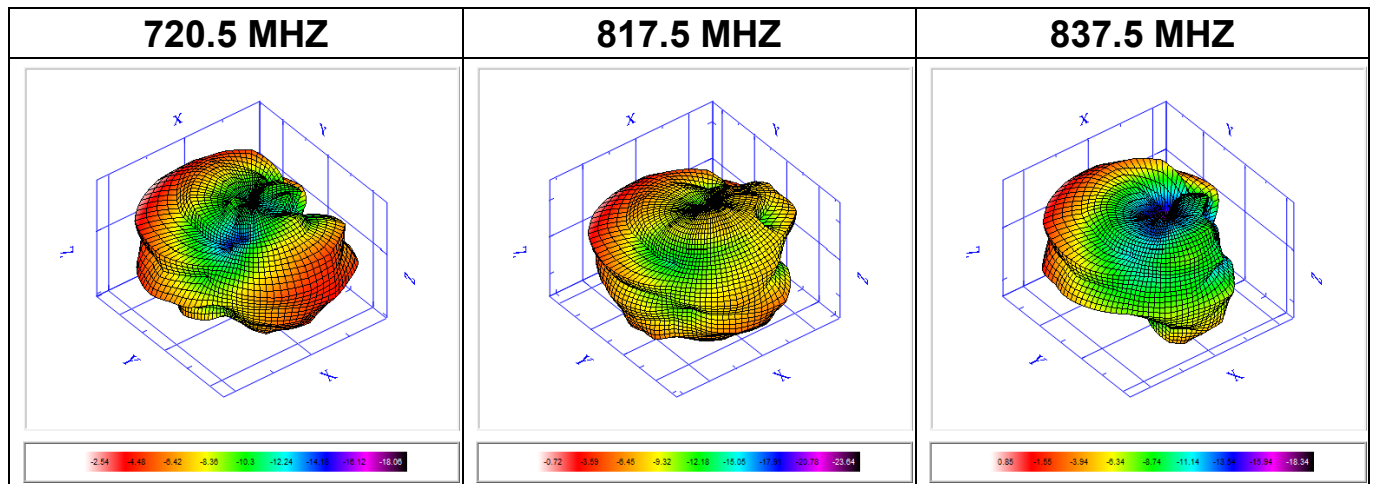


Frequency	3302.5	3525	3700	3975	4197.5	4402.5	4550	4700	4850	4997.5
E-Total Peak Gain (dBi)	1.52	-0.91	-0.92	0.13	-1.27	-1.25	-0.68	-1.17	-1.37	0.28
Efficiency (%)	16.79	10.14	13.23	14.59	13.84	13.22	16.82	12.93	12.66	13.57
Average Gain (dB)	-7.75	-9.94	-8.78	-8.36	-8.59	-8.79	-7.74	-8.88	-8.97	-8.67

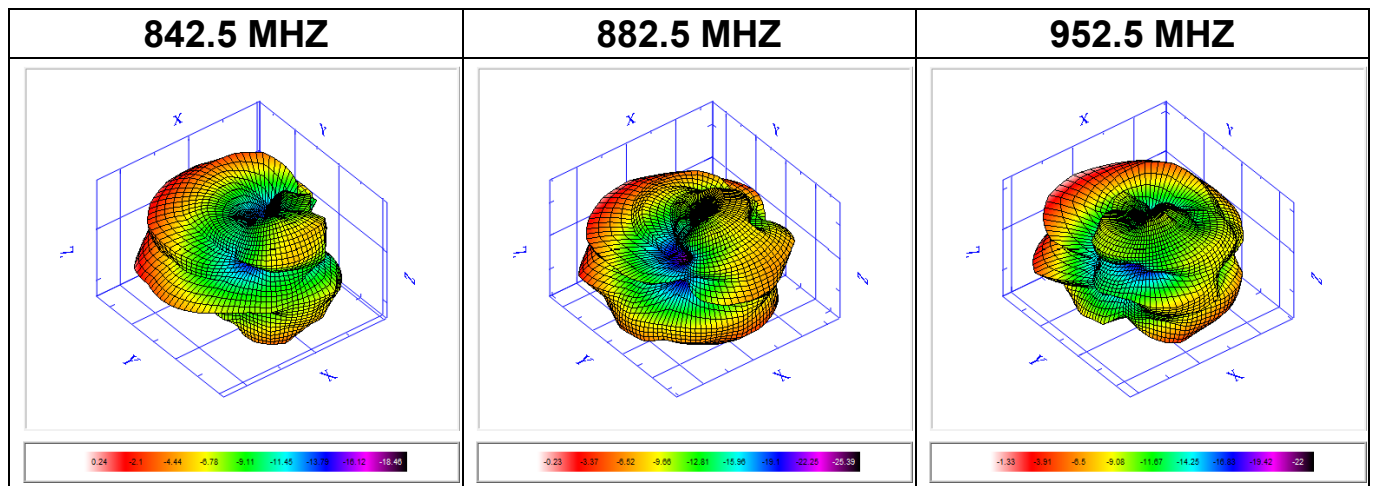


Frequency	5150	5200	5250	5300	5350	5470	5597.5	5725
E-Total Peak Gain (dBi)	0	-0.4	0.66	0.08	-0.58	-0.8	-2.86	0.19
Efficiency (%)	14.58	13.81	14.61	14.2	12.06	11.37	11.2	19.15
Average Gain (dB)	-8.36	-8.6	-8.35	-8.48	-9.19	-9.44	-9.51	-7.18

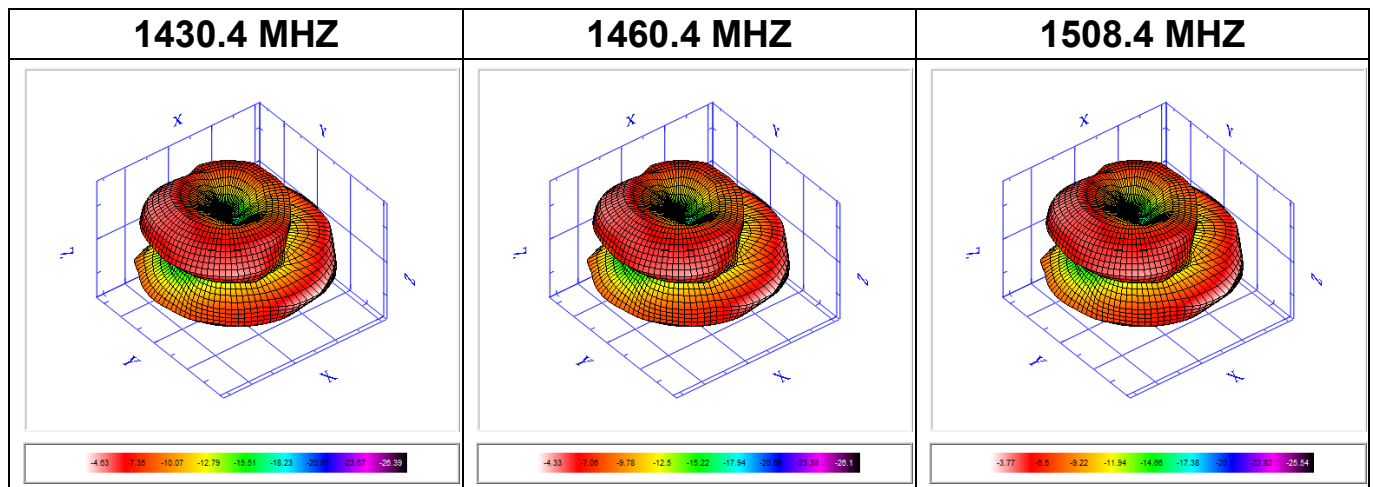
LTE/5G LTE2



Frequency	720.5	733.5	745.5	788	816.5	817.5	822.5	827.5	831.5	832.5	837.5
E-Total Peak Gain (dBi)	-2.54	-3.37	-1.55	-1.53	-0.73	-0.72	-0.86	-1.5	-1.07	-0.63	0.85
Efficiency (%)	17.01	14.3	24.07	18.47	17.42	16.92	15.58	15.45	17.73	19.15	24.74
Average Gain (dB)	-7.69	-8.45	-6.18	-7.34	-7.59	-7.72	-8.07	-8.11	-7.51	-7.18	-6.07

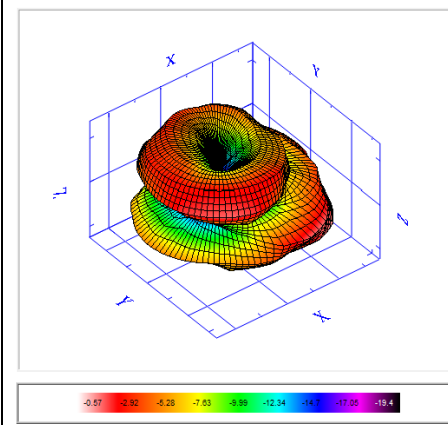


Frequency	842.5	846.5	867.5	876.5	882.5	902.5	907.5	912.5	952.5
E-Total Peak Gain (dBi)	0.24	-1.02	-0.02	0.71	-0.23	-0.08	-0.46	-0.22	-1.33
Efficiency (%)	21.27	17.59	18.93	20.59	17.8	16.61	14.6	14.99	15.44
Average Gain (dB)	-6.72	-7.55	-7.23	-6.86	-7.5	-7.8	-8.36	-8.24	-8.11

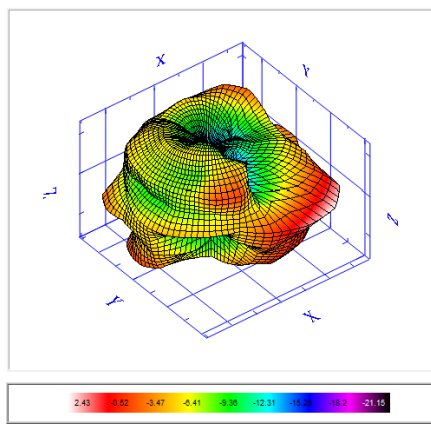


Frequency	1430.4	1437.9	1445.4	1450.4	1455.4	1460.4	1479.4	1485.9	1493.4	1498.4	1503.4	1508.4
E-Total Peak Gain (dBi)	-4.63	-4.55	-4.48	-4.43	-4.38	-4.33	-4.15	-4.09	-4.01	-3.97	-3.88	-3.77
Efficiency (%)	11.52	11.72	11.91	12.05	12.18	12.32	12.85	13.04	13.26	13.41	13.68	14.02
Average Gain (dB)	-9.39	-9.31	-9.24	-9.19	-9.14	-9.09	-8.91	-8.85	-8.77	-8.73	-8.64	-8.53

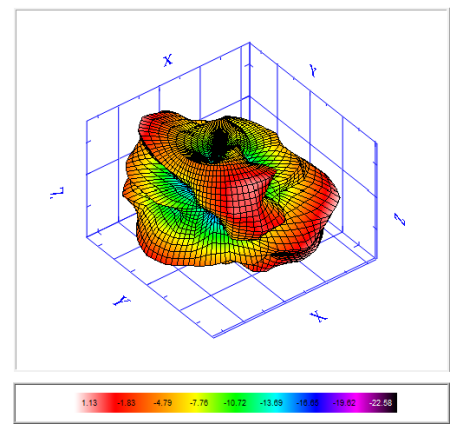
1712.5 MHZ



1852.5 MHZ

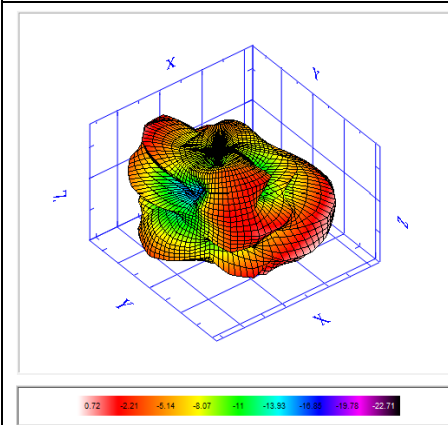


1932.5 MHZ

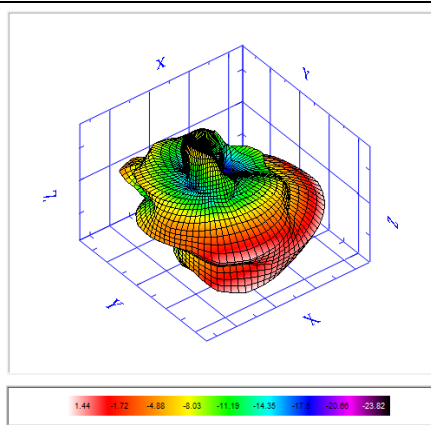


Frequency	1712.5	1732.5	1747.5	1752.5	1782.5	1807.5	1842.5	1852.5	1872.5	1877.5	1882.5	1900	1907.5	1917.5	1922.5	1932.5
E-Total Peak Gain (dBi)	-0.57	-0.21	0.08	-0.15	-0.12	-0.69	1.53	2.43	2.16	2.68	2.99	2.39	2.33	2.51	1.84	1.13
Efficiency (%)	24.84	26.74	27.76	28.28	27.24	24.96	27.03	27.62	26.22	28.75	31.34	31.94	31.64	35.61	33.28	31.53
Average Gain (dB)	-6.05	-5.73	-5.57	-5.49	-5.65	-6.03	-5.68	-5.59	-5.81	-5.41	-5.04	-4.96	-5	-4.48	-4.78	-5.01

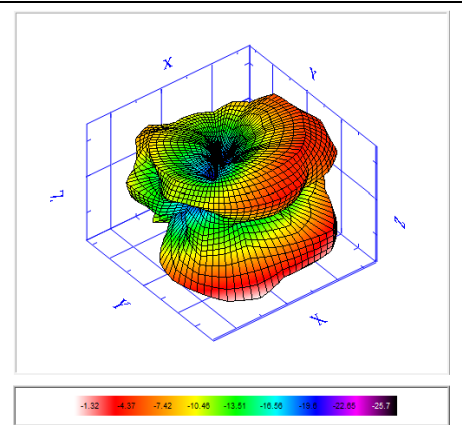
1950 MHZ



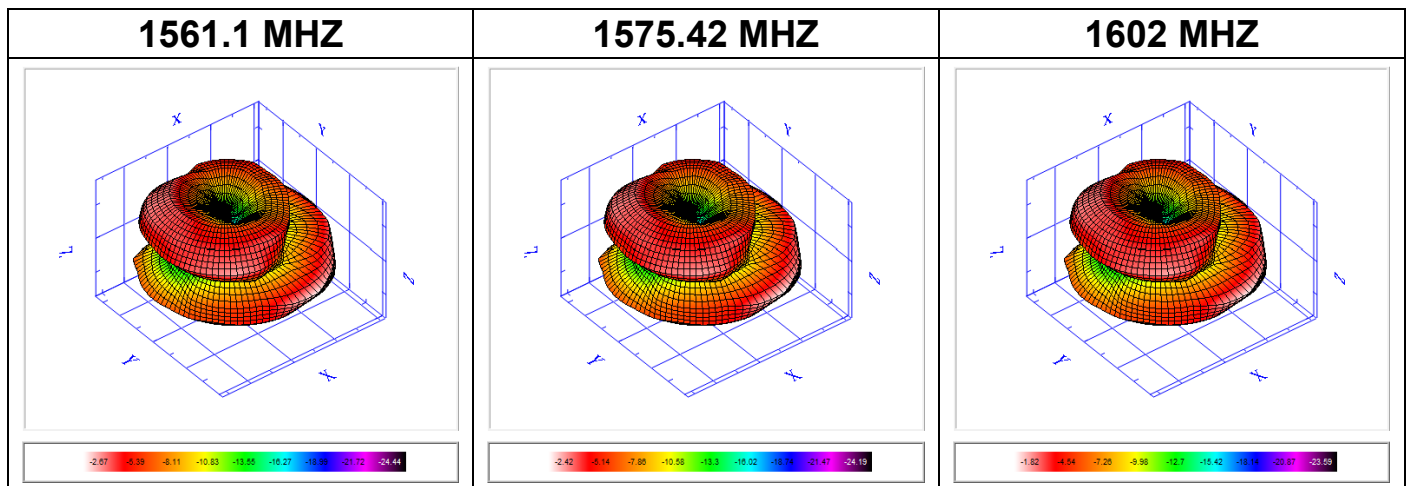
2152.5 MHZ



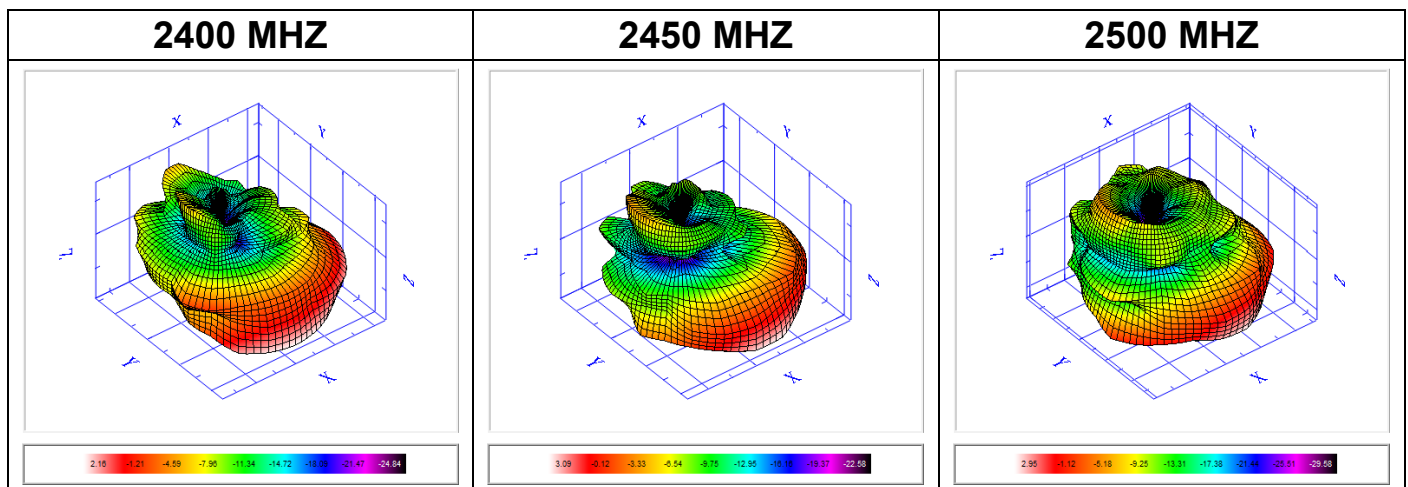
2687.5 MHZ



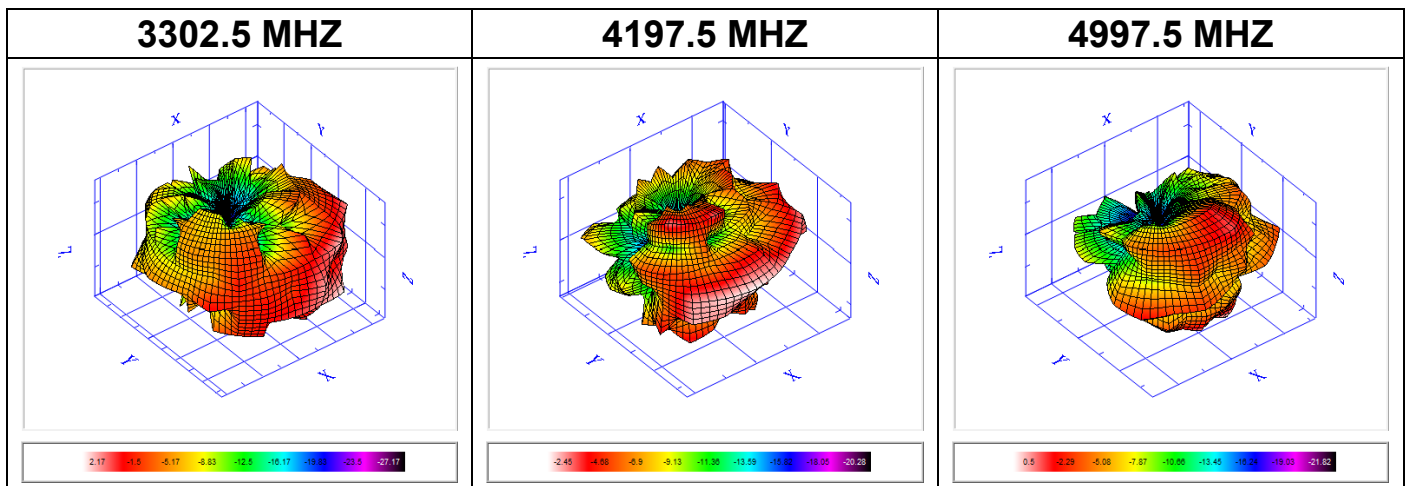
Frequency	1950	1960	1977.5	1980	1987.5	2112.5	2132.5	2140	2152.5	2167.5	2498.5	2547.5	2593	2597.5	2647.5	2687.5
E-Total Peak Gain (dBi)	0.72	0.35	2.13	2.44	3.01	2.01	1.48	1.73	1.44	1.37	2.79	1.37	0.5	0.08	-0.6	-1.32
Efficiency (%)	29.81	27.55	24.74	24.9	25.82	24.79	23.94	24.58	23.36	23.32	21.92	19.23	15.8	14.12	12.03	11.2
Average Gain (dB)	-5.26	-5.6	-6.07	-6.04	-5.88	-6.06	-6.21	-6.09	-6.32	-6.32	-6.59	-7.16	-8.01	-8.5	-9.2	-9.51



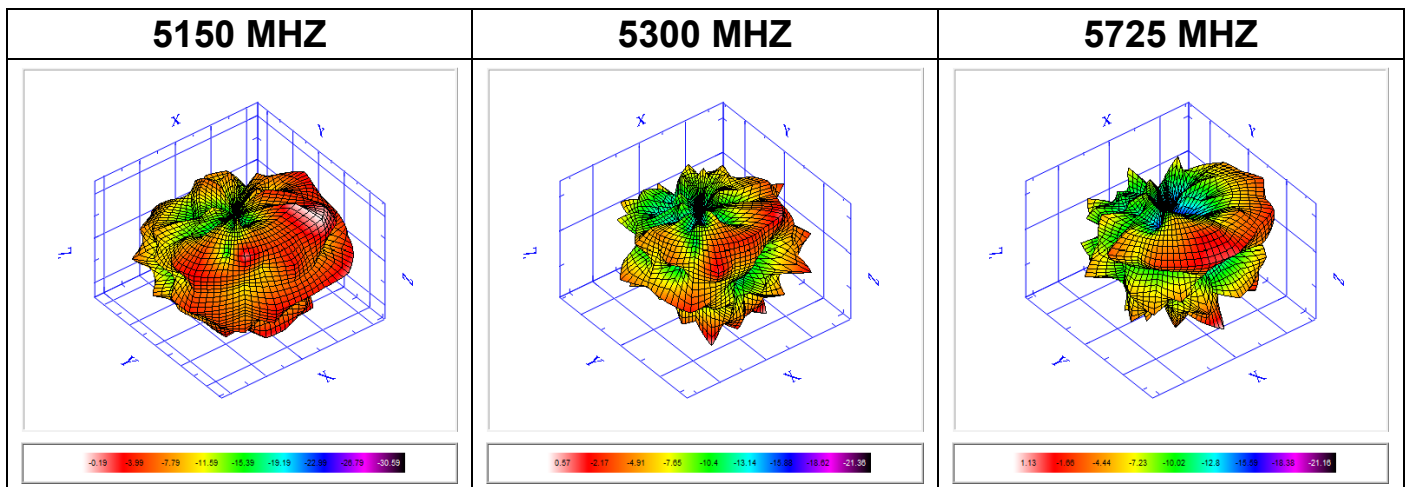
Frequency	1561.1	1575.42	1602
E-Total Peak Gain (dBi)	-2.67	-2.42	-1.82
Efficiency (%)	18.07	19.14	21.98
Average Gain (dB)	-7.43	-7.18	-6.58



Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
E-Total Peak Gain (dBi)	2.16	2.18	2.58	3.14	2.38	3.09	2.61	2.72	2.79	2.47	2.95
Efficiency (%)	23.38	22.47	22.65	24.82	20.73	22.38	21.08	21.82	22.46	20.07	22.46
Average Gain (dB)	-6.31	-6.48	-6.45	-6.05	-6.83	-6.5	-6.76	-6.61	-6.49	-6.97	-6.49



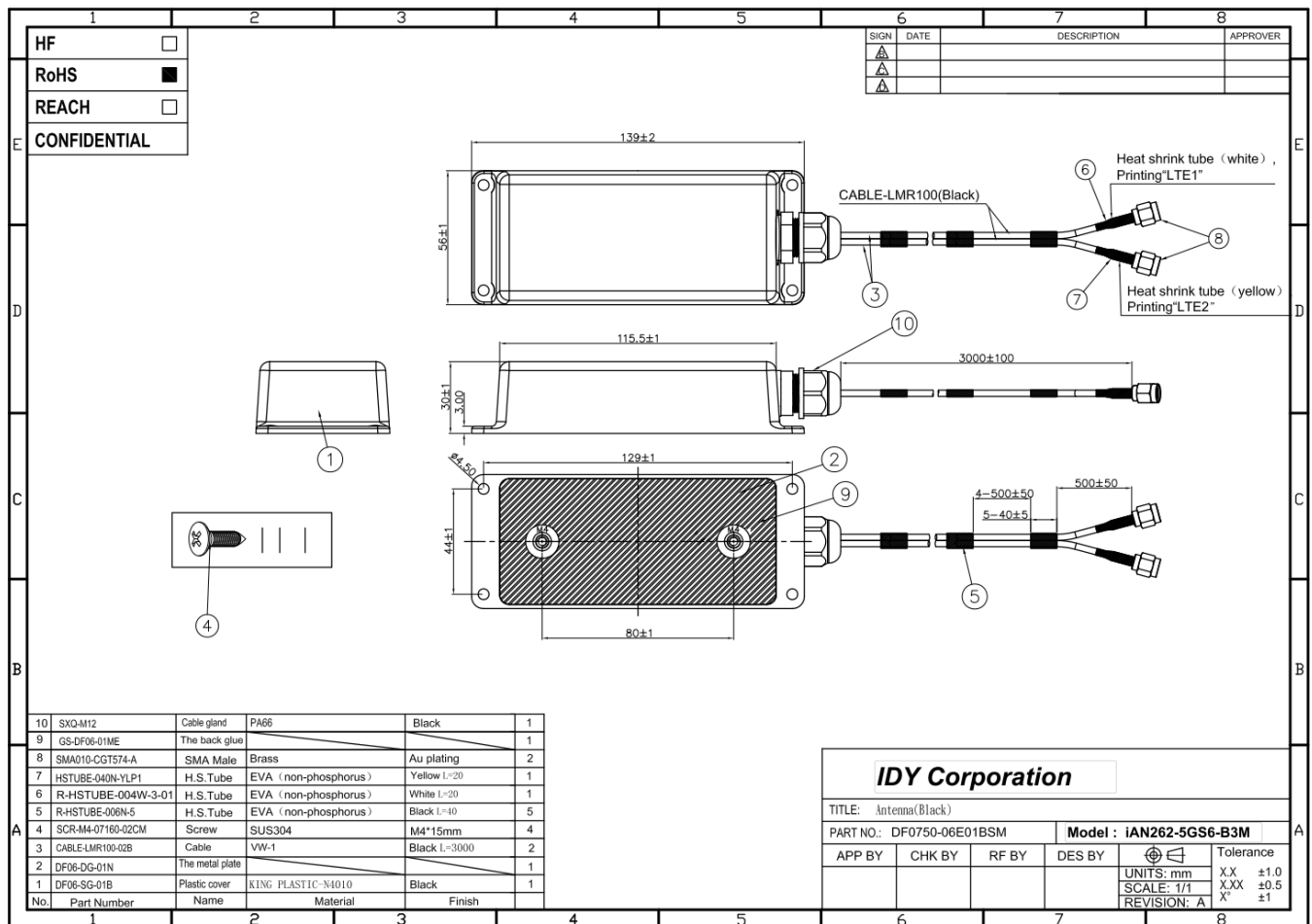
Frequency	3302.5	3525	3700	3975	4197.5	4402.5	4550	4700	4850	4997.5
E-Total Peak Gain (dBi)	2.17	-1.28	1.15	-0.41	-2.45	0.09	-0.74	0.32	-0.23	0.5
Efficiency (%)	22.17	14.35	16.19	14.97	14	16.94	17.58	16.65	15.4	15.26
Average Gain (dB)	-6.54	-8.43	-7.91	-8.25	-8.54	-7.71	-7.55	-7.78	-8.12	-8.17



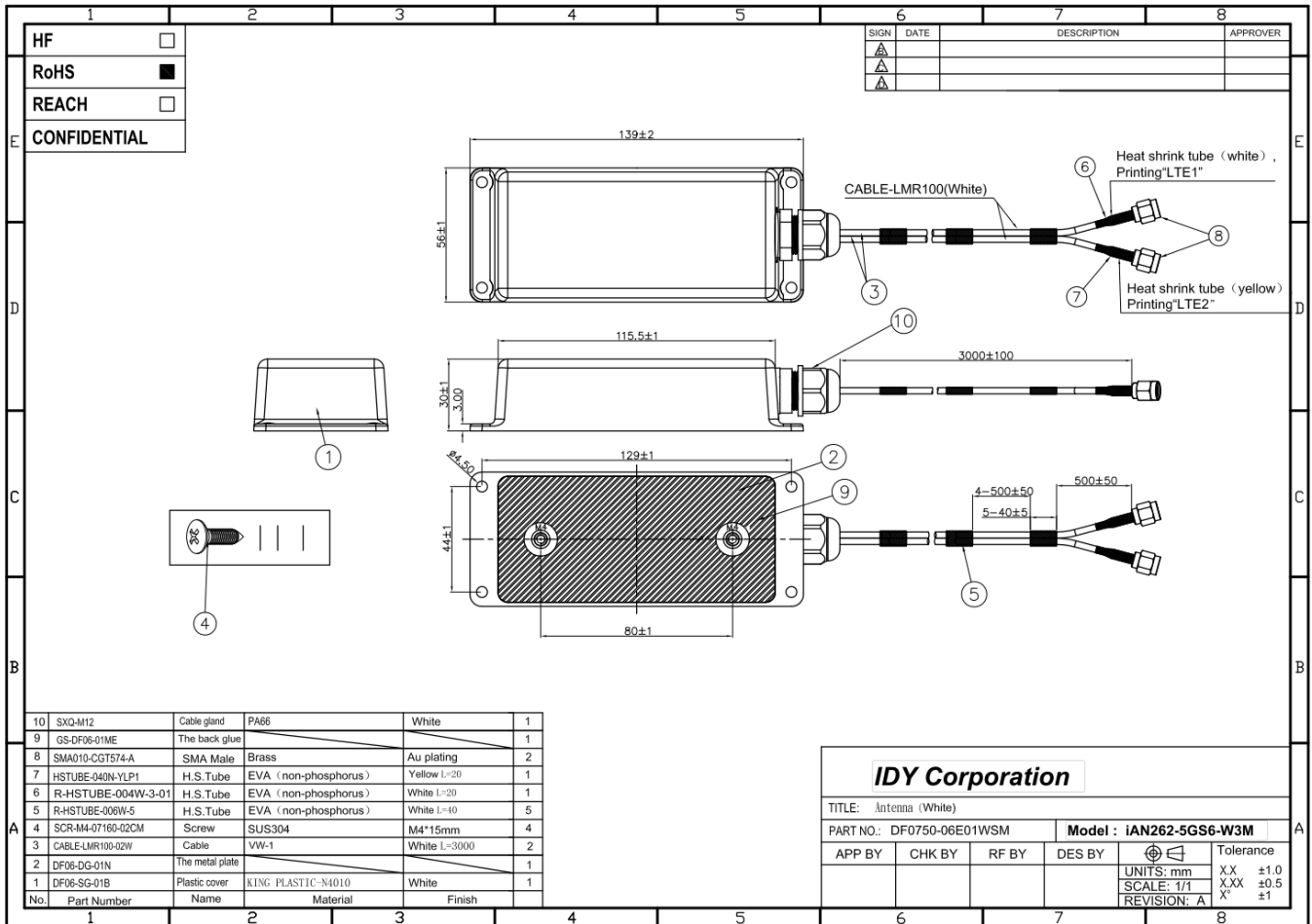
Frequency	5150	5200	5250	5300	5350	5470	5597.5	5725
E-Total Peak Gain (dBi)	-0.19	-0.11	0.1	0.57	-1.7	-1.71	-1.55	1.13
Efficiency (%)	15.63	16.07	17.81	17.02	13.1	13.76	12.98	18.07
Average Gain (dB)	-8.06	-7.94	-7.49	-7.69	-8.83	-8.61	-8.87	-7.43

8. アンテナ外觀仕様

< iAN262-5GS6-B3M >



< iAN262-5GS6-W3M >



9. 梱包仕様

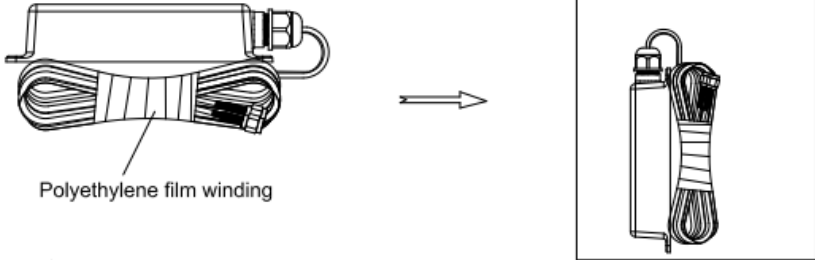
PACKING CRITERION

Date: 2022/09/16

Page: 1 of 1

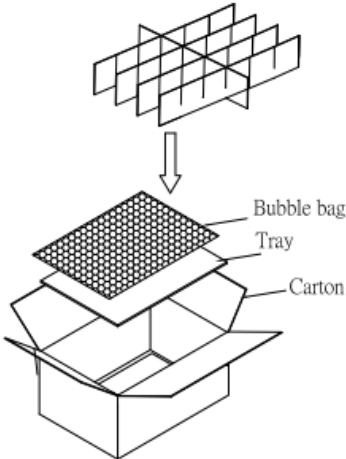
Model: iAN262-5GS6-B3M iAN262-5GS6-W3M	Revision : A
Name: Antenna	

(一). 1PCS/per Bag



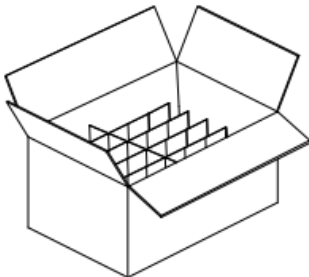
Polyethylene film winding

(二). The honeycomb tray is loaded into the master carton.

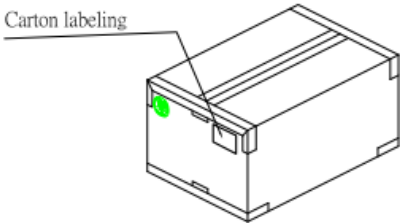


Bubble bag
Tray
Carton

(三), Each honeycomb contains 1pcs of product.



(四). Each box contains 16PCS of products.



Carton labeling

1, There are two layers in total, 16PCS per carton. Baffle plate and bubble bag should be placed in the middle and top.
2, The side of the master carton is pasted with environmental protection label and outer box label.

APPROVED BY : _____ CHECKED BY : _____ DESIGNED BY : _____

10. iAN262-5GS6-x3M Cable Specification



WWW.SUIRONGCABLE.COM

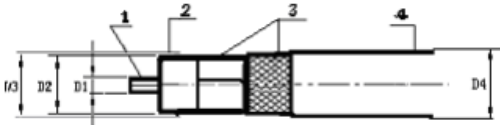
深圳市穗榕同轴电缆科技有限公司

S.R Code:SR18070201

LMR-100 Coaxial Cable Specification

(LMR-100 同轴电缆规格书)

Reference standard:MIL-C-17G Black

Type of coaxial cable: LMR-100, RoHS compliance											
Legend:											
LMR-100											
1.Inner conductor 内导体											
2. Dielectric: 绝 缘											
3.Outer conductor 外导体											
4. Jacket White 护套											
Main Electrical properties:											
Characteristic impedance		阻抗		50±2Ohm							
Rated capacitance		电容		100±2 pF/m							
Velocity		速比		66%							
Delay		延时		4.90ns/m							
Operating frequency		工作频率		1~6000MHz							
Attenuation at typical frequencies: (dB/ m)											
100MHz		400MHz		900MHz		1800MHz		2400MHz		3000MHz	
0.19		0.48		0.74		1.08		1.25		1.48	
VSWR 1~3000MHz				电压驻波比				1.30 Max.			
Mechanical Construction:											
Inner conductor: BC			裸铜线			0.46±0.01mm					
Dielectric:PE			绝缘 PE			1.52±0.03mm					
Outer conductor: AP+TC (※)			铝箔+镀锡铜线			2.04±0.05mm (16*5/0.10mm)					
Jacket :PVC			护套阻燃黑色 PVC (防火等级: VW-1)			2.80±0.10mm					
※ TC-- tinned copper											
Engineering data:											
Maximum Pull Tension			最大拉拔力			38 lbs					
Minimum bending radius			最小弯曲半径			27mm					
Operating temperature			工作温度			-40~+105°C					
Reel Length			装盘长度			LOW LOSS 100 VW-1 PVC COAXIAL CABLE HYT MICROWAVE SYSTEM/NFC					
jacket-Marking			产品标识								

SuiRong COAXIAL CABLE Co.,Ltd

WWW.SUIRONGCABLE.COM

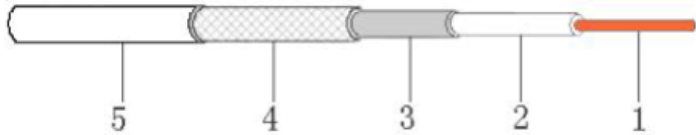
Tel: +86-755-28217358 Fax+86-755-28217359

2018-07-02

制造商:深圳市穗榕同轴电缆科技有限公司
 生产地:深圳市龙岗区务地铺清水路清水巷

低损耗同轴电缆 ALSR100 PVC (CABLE-LMR100-02W)

产品描述 PRODUCT DESCRIPTION



- 实芯同轴电缆系列 Series ALSR Solid Coaxial Cable
- 实芯裸铜内导体 Bare Copper Conductor
- 实芯聚乙烯绝缘 Solid Polyolefin Dielectric
- 纵包非自粘铝箔屏蔽 Laminate Aluminum Tape Shield
- 镀锡铜丝编织屏蔽 Tinned Copper Braid 90%
- 白色阻燃聚氯乙烯护套 White ZR-PVC Jacket
- 电缆表面印字 Surface Printing:

产品结构参数 Structural parameters Information

材料 Material	结构描述 Detail	尺寸 Size mm	颜色 Color
内导体 Inner Conductor	铜 Bare Copper	1/0.46±0.02	铜色 Coppery
绝缘 Dielectric	辐照实芯聚乙烯 XL-PE	1.52±0.05	透明 Natural Color
屏蔽 1 st Outer Conductor	非自粘铝箔 Laminate Aluminum Tape	1.65±0.10	银色 Silvery
屏蔽 2 nd Outer Conductor	镀锡铜 Tinned-Copper Braid(80*Φ0.10mm)	2.05±0.10	银色 Silvery
护套 Jacket	聚氯乙烯 ZR-PVC (CMR)	2.80±0.10	白色 White

物理机械性能 Physical Mechanical Specifications

类别 Item	单位 Unit	数据 Date
弯曲半径 Minimum Bend Radius	动态 Loaded /mm	28
	静态 Unloaded /mm	14
温度 Temperature Rating	°C	-20~+80

电性能 Electrical Specifications

类别 Item	单位 Unit	数据 Date
特性阻抗 Impedance	Ω	50±3

江苏艾力升电缆有限公司
地址：江苏镇江市丹徒新城盛园路26号

JIANGSU ELESUN CABLE CO., LTD
TEL:0511-85623291 FAX:0511-85632367 WWW.CNALS.COM

產品技術數據

PRODUCT INFORMATION SHEET



电容 Capacitance	pF/m	101±5
速率 Velocity ratio Propagation	%	66
直流电阻 Resistance	Ω/km	
内导体 Inner Conductor		108
外导体 Outer Conductor		31.2
绝缘电阻 Insulation resistance	MΩ.km	1000
耐压 Dielectric strength	V(DC)	500
护套电压 Withstand voltage of jacket	V(AC)	2000
最高工作频率 Maximum operating frequency	MHz	3000

衰减及平均功率 Attenuation and Avg.Power, Typical value (20℃) (Allowable tolerance±15%)

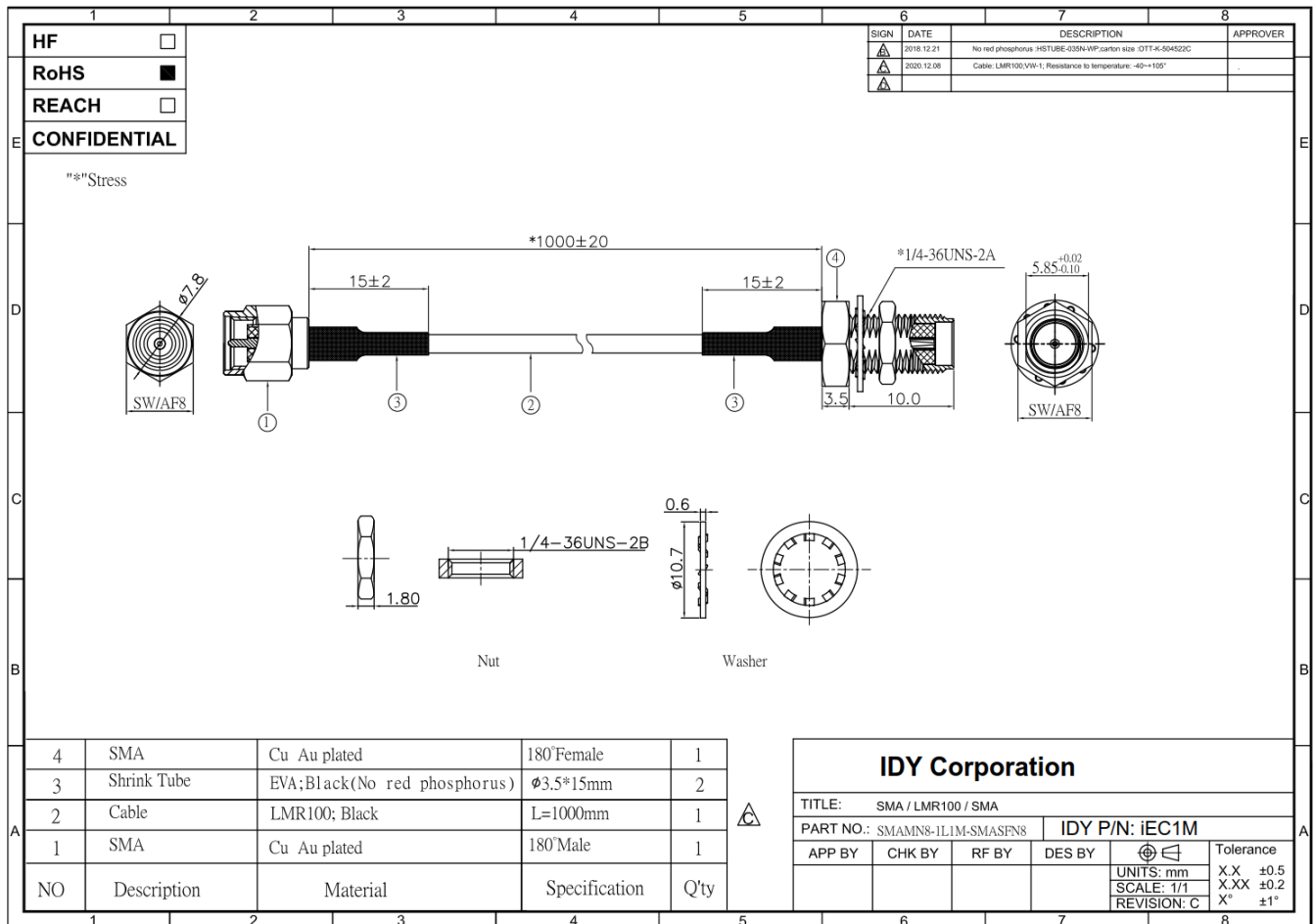
频率 Frequency MHZ	衰减 Attenuation(dB/100m)	平均功率 Avg.Power(kW)
150	29.4	0.10
200	34.1	0.08
220	35.8	0.08
450	51.9	0.06
900	74.9	0.05
1500	98.7	0.04
1800	109.0	0.03
2000	115.5	0.02
2500	130.6	0.01
3000	144.6	0.01

江苏艾力升电缆有限公司
地址：江苏镇江市丹徒新城盛园路26号

JIANGSU ELESUN CABLE CO., LTD
TEL:0511-85623291 FAX:0511-85632367 WWW.CNALS.COM

■ 1m 延長ケーブル iEC1M 仕様

<iEC1M Mechanical Drawings>



<IEC1M Packaging Specification>

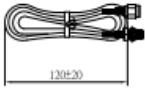
Product packaging specification

Date : 2020.12.08 IDY P/N: iEC1M

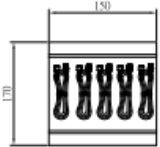
page: 1 of 1

Product NO : SMAMN8-1L1M-SMASFN8	Edition : A
Product Name :Coaxial Cable	Customer : ALL

1.



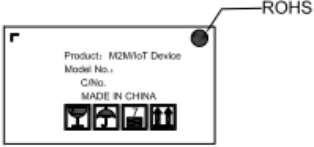
2.



5PCS / BAG

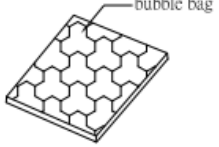
3.

SIDE



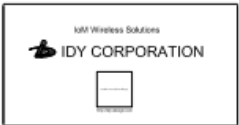
Put a ROHS label on the side of master carton, fill in the product part number, quantity, net weight and gross weight.

4.



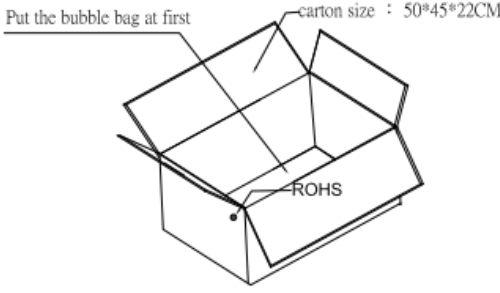
bubble bag

FRONT



5.

Put the bubble bag at first

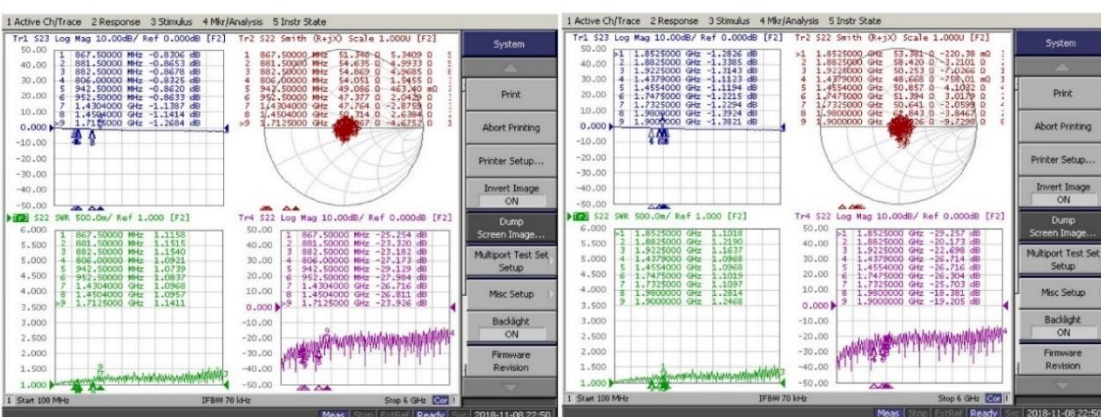
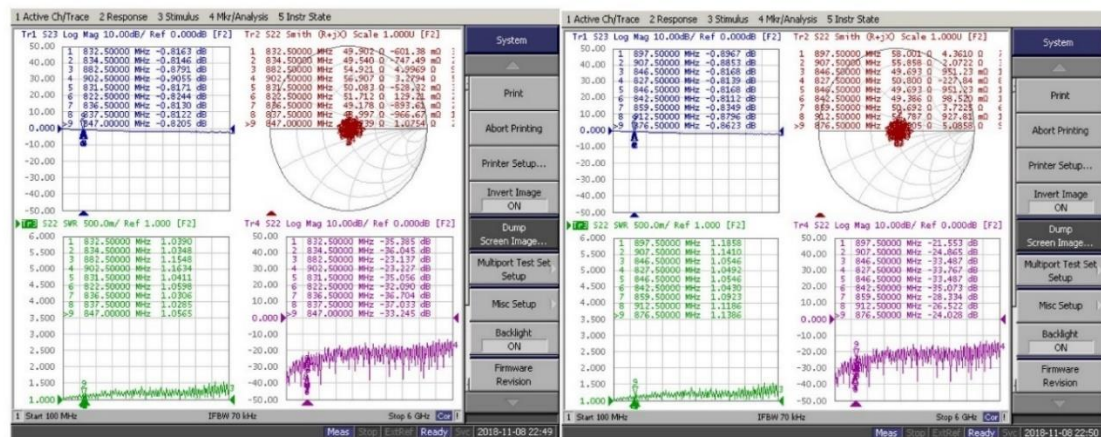
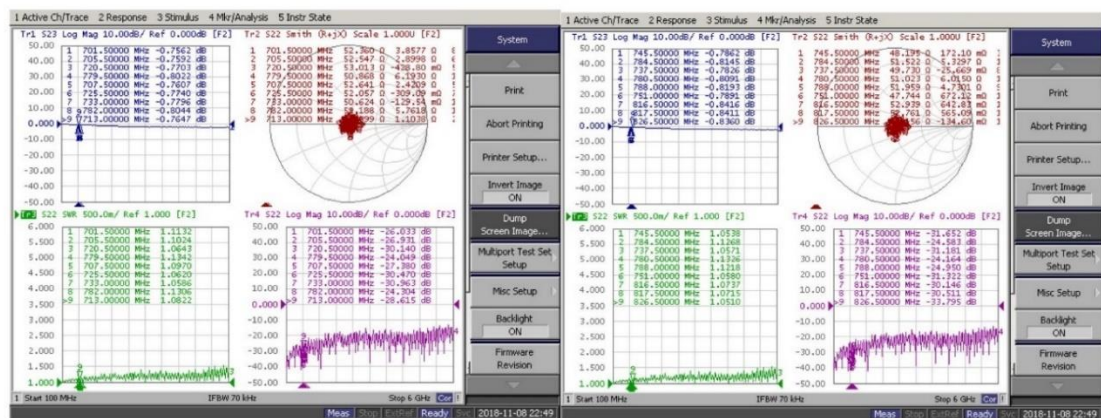


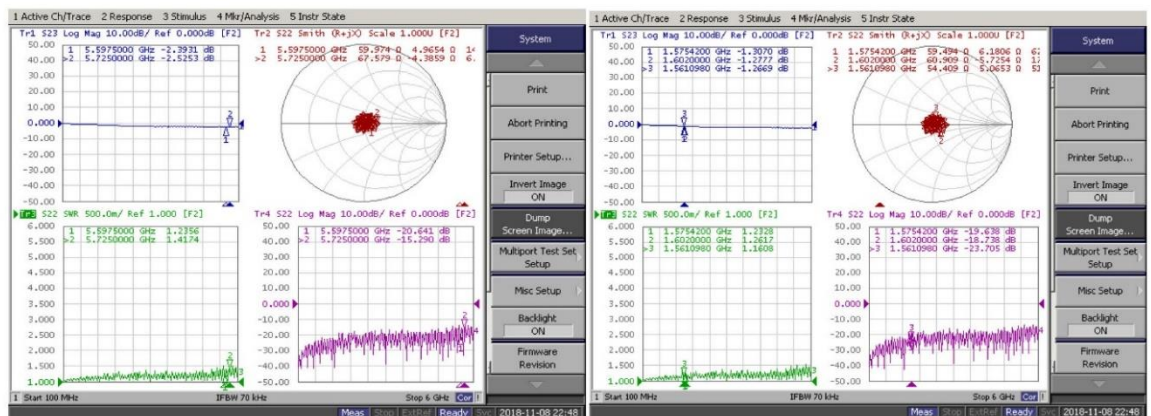
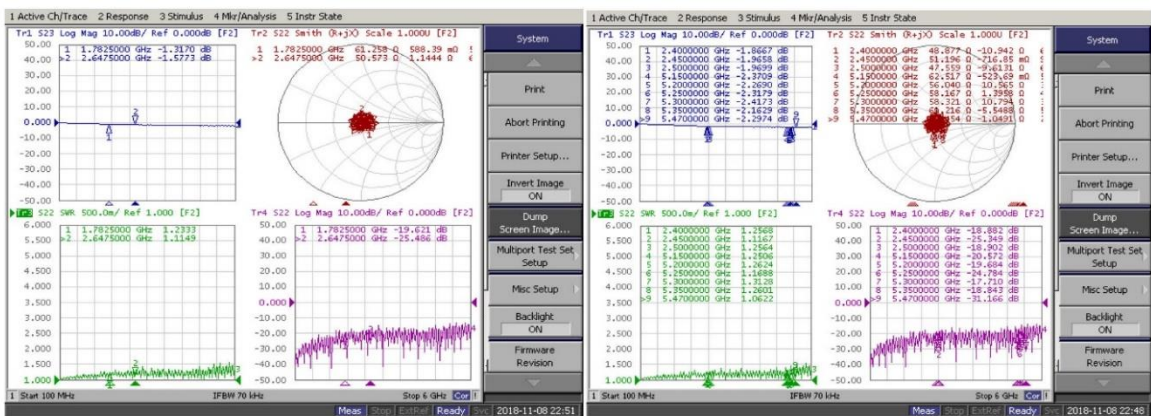
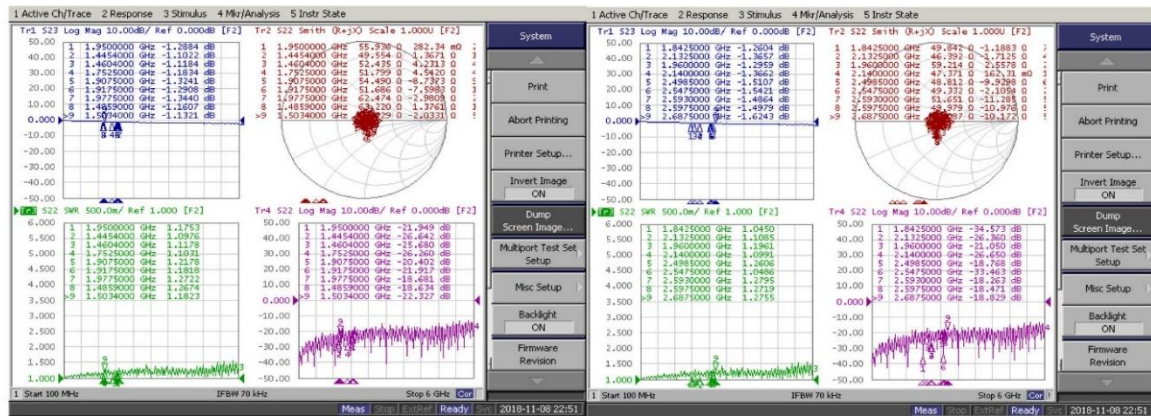
carton size : 50*45*22CM

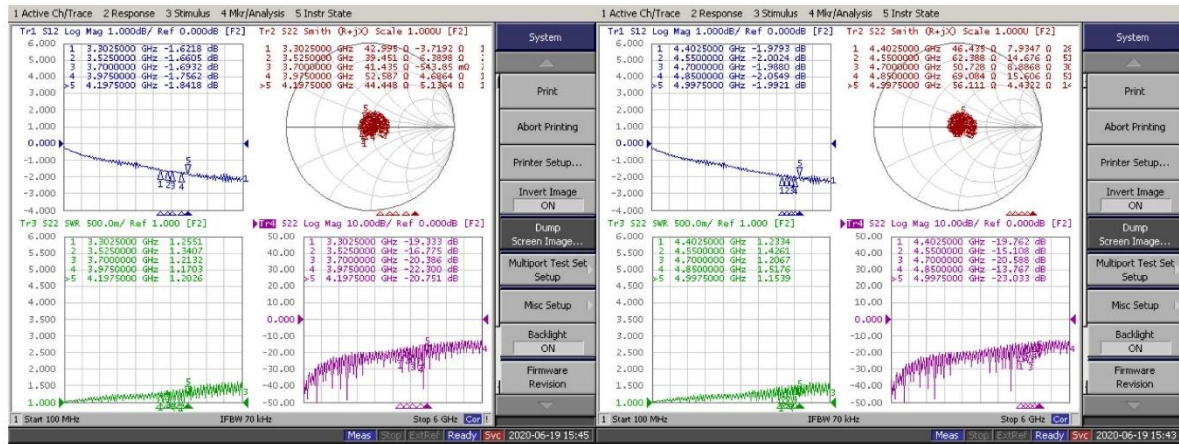
600PCS / CARTON

APPROVED BY : _____ CHECKED BY : _____ DESIDNED BY : _____

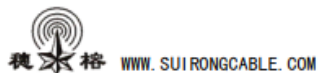
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<IEC1M Cable Specification>



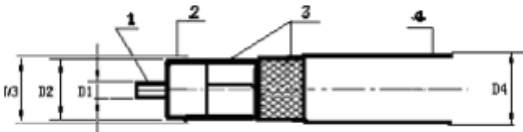
深圳市穗榕同轴电缆科技有限公司

S.R Code:SR18070201

LMR-100 Coaxial Cable Specification

(LMR-100 同轴电缆规格书)

Reference standard:MIL-C-17G Black

Type of coaxial cable: LMR-100, RoHS compliance											
Legend:											
LMR-100 1.Inner conductor 内导体 2. Dielectric: 绝缘 3.Outer conductor 外导体 4. Jacket White 护套											
Main Electrical properties:											
Characteristic impedance		阻抗		50±2Ohm							
Rated capacitance		电容		100±2 pf/m							
Velocity		速比		66%							
Delay		延时		4.90ns/m							
Operating frequency		工作频率		1~6000MHz							
Attenuation at typical frequencies: (dB/ m)											
100MHz		400MHz		900MHz		1800MHz		2400MHz		3000MHz	
0.19		0.48		0.74		1.08		1.25		1.48	
VSWR 1~3000MHz				电压驻波比				1.30 Max.			
Mechanical Construction:											
Inner conductor: BC			裸铜线			0.46±0.01mm					
Dielectric:PE			绝缘 PE			1.52±0.03mm					
Outer conductor: AP+TC (※)			铝箔+镀锡铜线			2.04±0.05mm (16*5/0.10mm)					
Jacket :PVC			护套阻燃黑色 PVC (防火等级: VW-1)			2.80±0.10mm					
※ TC-- tinned copper											
Engineering data:											
Maximum Pull Tension			最大拉拔力			38 lbs					
Minimum bending radius			最小弯曲半径			27mm					
Operating temperature			工作温度			-40~+105°C					
Reel Length			装盘长度			LOW LOSS 100 VW-1 PVC COAXIAL CABLE HYT MICROWAVE SYSTEM/NFC					
jacket-Marking			产品标识								

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司
 生产地:深圳市龙岗区务地铺清水路清水巷

WWW.SUIRONGCABLE.COM

Tel: +86-755-28217358 Fax+86-755-28217359

2018-07-02

<IEC1M RoHS Test>

SGS TaiBei Network---http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp

SGS Mainland Network---http://rsts.cn.sgs.com/zh-cn/cheres_cn.asp

SGS Korea S. Network---http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

PLS fill out the correct data for search

1.Report Number

2.Report Date(YYYY/MM/DD)

3.Product Name(Input the first 10 figures. Do not include the blank)

4.The graphic presentation checking yard

HSF Datasheet

Part Number : SMAMN8-IL1M-SMASFN8 IDY P/N: IEC1M

Num ber	Detail Part Number	Detail Name	Material	RoHS Test Results										Report Number	Test Date	Test Name	Test Locale
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	SMA	180°Male 180°Female	CU	N.D.	29790	N.D.	Negative	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	AZT032106150008C-011	2021.07.05	C3604	AZT
			Au Plated	N.D.	31	N.D.	N.D.							SZXEC2101871802	2021.06.28	銅車件電鍍金	SGS
			PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2200357261101001	2020.10.17	PTFE plastics	CTI
2	LMR100	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2020811102	2020.11.27	PVC Black	SGS
			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022021108	2020.12.18	HDPE	SGS
			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	YCCT332020060601RZ2	2020.06.06	铝箔聚脂膜麦拉带	YCCT
			BCU	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TSNEC2002256101	2020.11.30	ELECTRICIAN	SGS
			TCU	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	C210301069002-0	2021.03.05	鍍锡线0.15	CPST
3	HSTUBE-035N-WP	Shrink Tub	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022443601	2020.12.22	HEAT SHRINKABLE TUBING	SGS

PLS refer the SGS report, fill out the content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs

The content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs is less than 100 ppm in the package. The content of Cd is less than 5 ppm.

According to the EU ROHS directive exemption clause 2015/863/EU Lead as an alloying element in steel containing up to 0,35 % aluminium containing up to 0,4% copper alloy containing up to 4%

■ 12m 延長ケーブル iEC12M 仕様

Product Number: iEC12M
Product Name: Coaxial Cable

Specification For Approval

Date: 2021 / 09 / 13

File No.: 210802001

Version: 1.2

IDY P/N : iEC12M

R/N : SMAMN8-2L12M-SMASFN8

Description : Coaxial Cable

Checked By:

Approved By:

Product Number: iEC12M
Product Name: Coaxial Cable

Index:

1. Revision History / Page 3
2. Specification / Page 4
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Product Number: iEC12M
Product Name: Coaxial Cable

1. Revision History

Revision	Date	Change Notification	Description
1.0	2020.09.25	Issued	
1.1	2021.08.02	Added Data	Increased the measurement frequency.
1.2	2021.09.13	Changed Packaging Specifications	The packaging specifications have been changed to the English version.

Product Number: iEC12M
Product Name: Coaxial Cable

2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	701~713MHz / 745~826 MHz 832~847MHz / 876~897MHz 867~1712MHz / 1852~1900MHz 1445~1977MHz / 1842~2687MHz 1782~2647MHz / 2400~5470MHz 3302~4197 MHz / 4402~4997 MHz 5597~5725 MHz / 1575~1561MHz
Impedance	50 Ohm
Insertion Loss	>= -4.0 dB @ 701~713MHz >= -4.0 dB @ 745~826 MHz >= -4.2 dB @ 832~847MHz >= -4.2 dB @ 876~897MHz >= -4.2 dB @ 867~952 MHz >= -5.6 dB @ 1430~1712MHz >= -5.5 dB @ 1575~1561MHz >= -6.3 dB @ 1852~1900MHz >= -6.3 dB @ 1445~1977MHz >= -8.0 dB @ 1842~2687MHz >= -7.0 dB @ 1782~2647MHz >= -12 dB @ 2400~5470MHz >= -10 dB @ 3302~4197 MHz >= -12 dB @ 4402~4997 MHz >= -12 dB @ 5597~5725 MHz
Voltage (breakdown)	> 500V
Insulation Resistance	>= 500 M ohm
B. Mechanical Characteristics	
Pull Test of Connector	>= 5Kg
Mating Cycles	> 500

Product Number: iEC12M
Product Name: Coaxial Cable

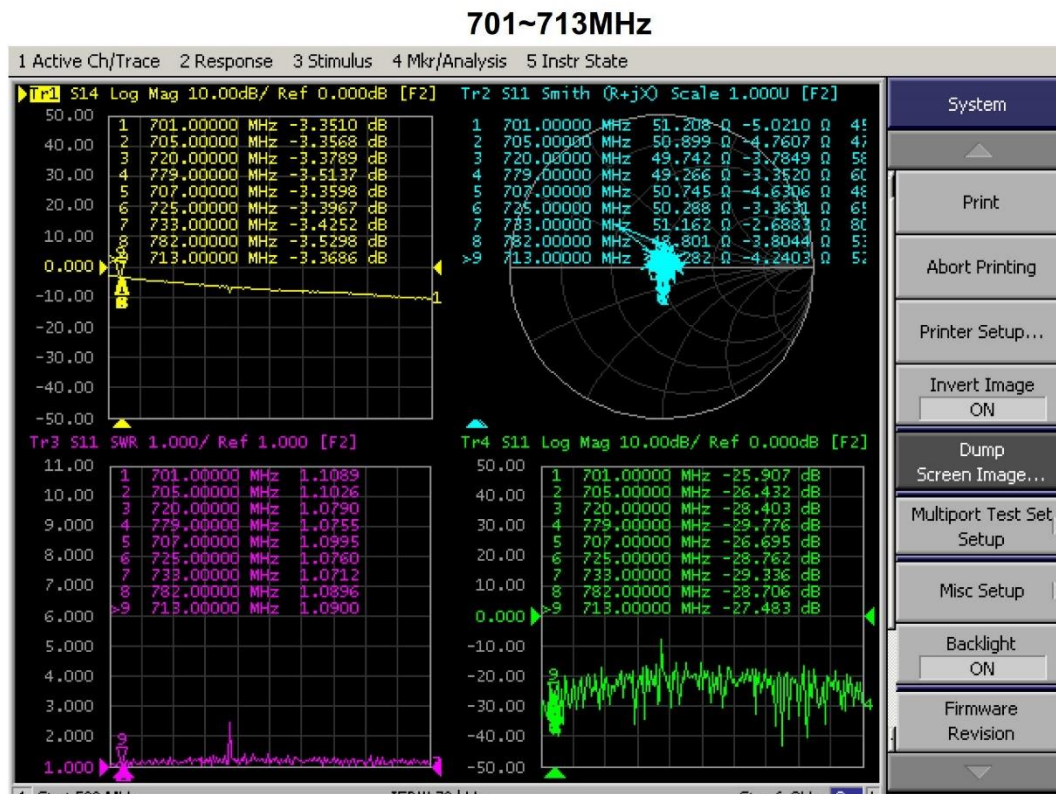
C. Environmental	
Operation Temperature	- 25 °C ~ + 70 °C
Storage Temperature	- 30 °C ~ + 80 °C

3. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
C2	Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
M4	Pull Test	Holding with individual specification; force applied to axis of terminal.	1. Directive DUT specification 2. Frequency Tol. ≤ 5%	PASS
M6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
E2	Salt Spray	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%; Time: 24H	1. No Visual Damage 2. Frequency Tol. ≤ 5%	PASS
E3	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. ≤ 5%	PASS
E5	Aging test	GB / T 2423.2 - 2008 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. ≤ 5%	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863/EU	PASS

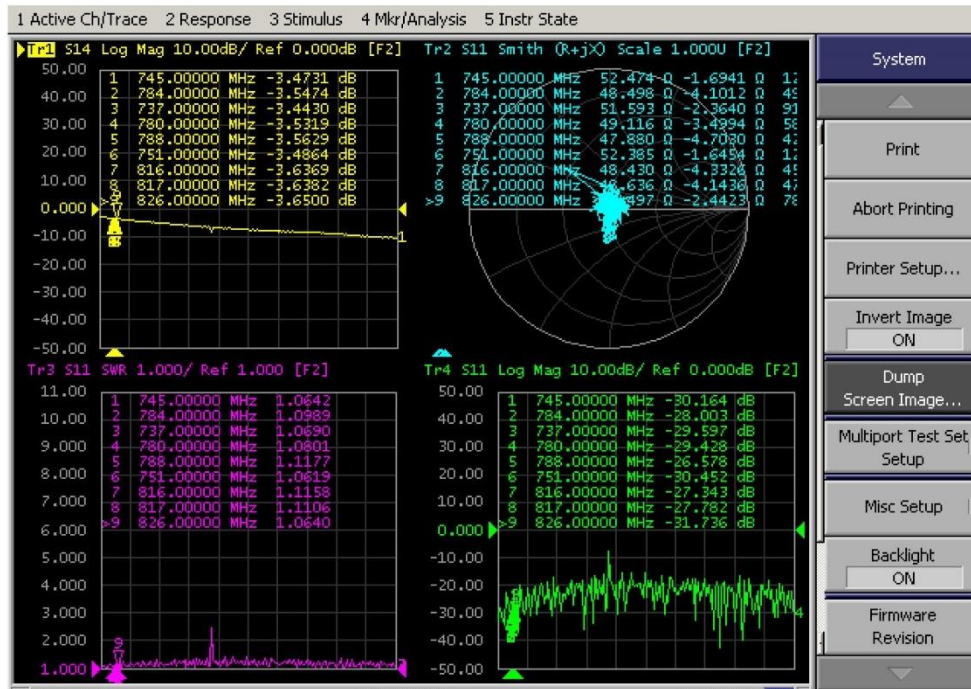
Product Number: iEC12M
Product Name: Coaxial Cable

4. S Parameter Test Data

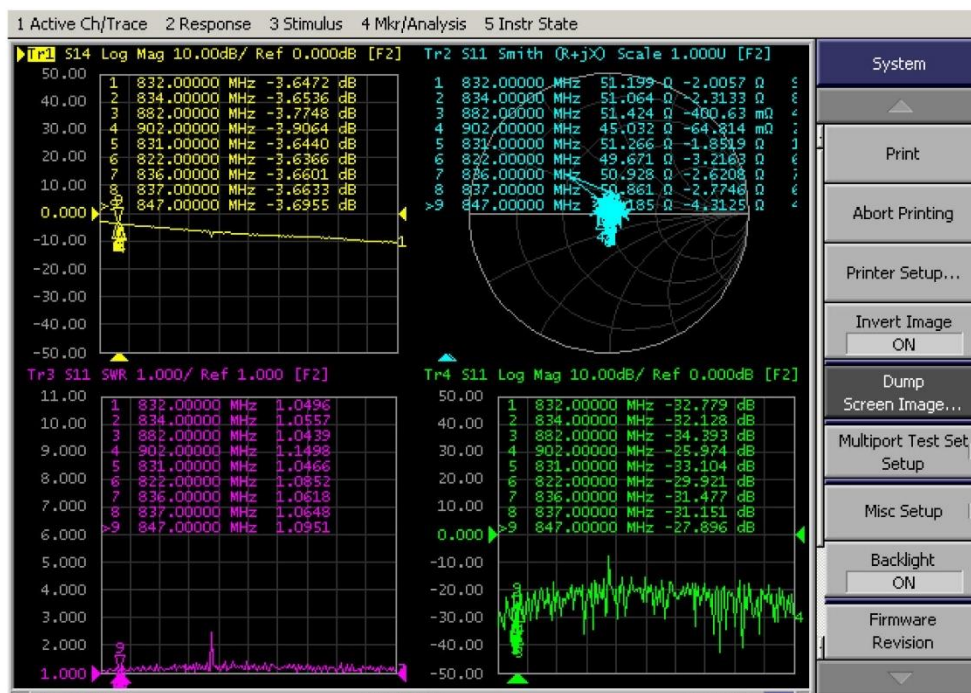


Product Number: iEC12M
Product Name: Coaxial Cable

745~826MHz

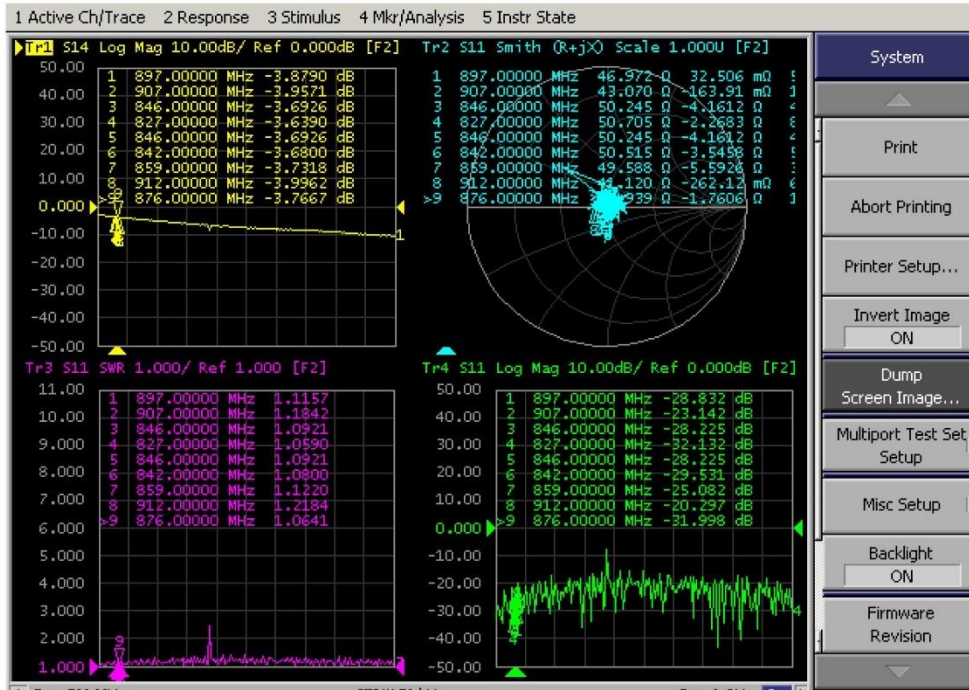


832~847MHz

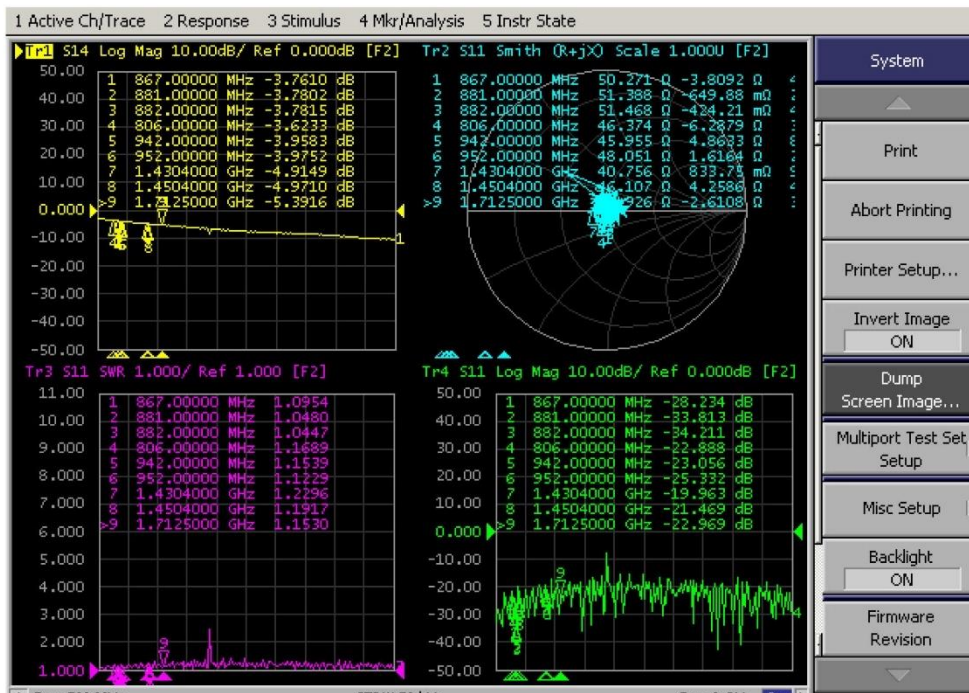


Product Number: iEC12M
Product Name: Coaxial Cable

876~897MHz

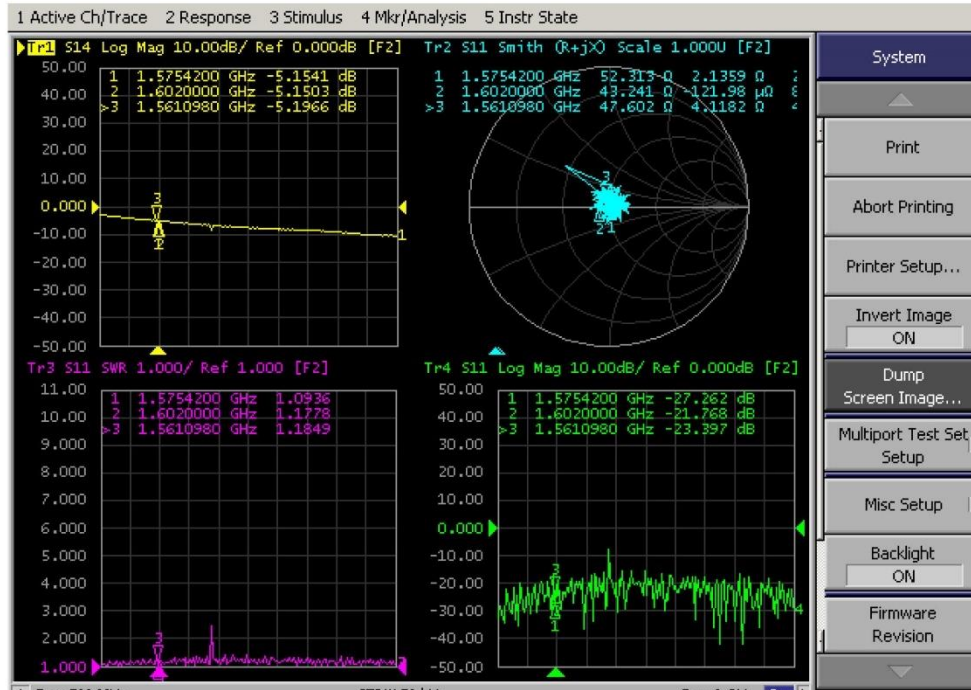


867~1712MHz

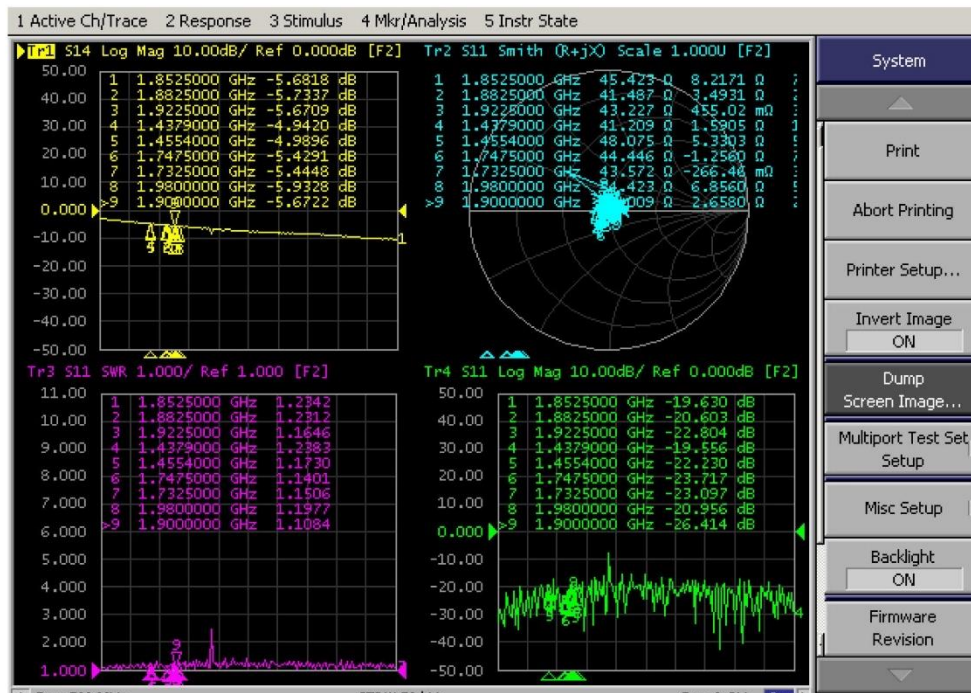


Product Number: iEC12M
Product Name: Coaxial Cable

1575~1561MHz

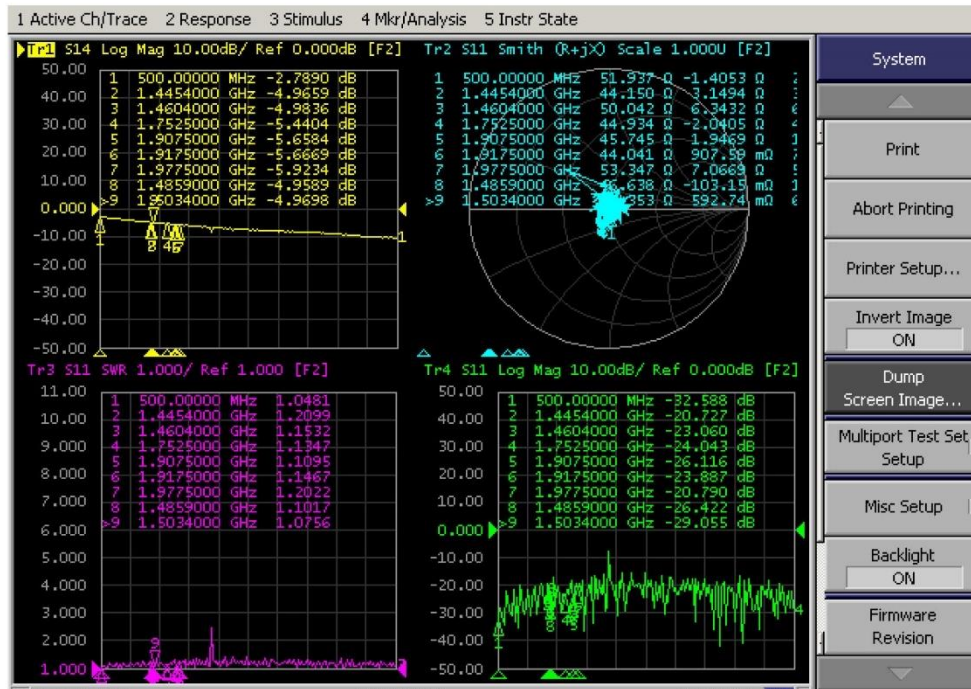


1852~1900MHz

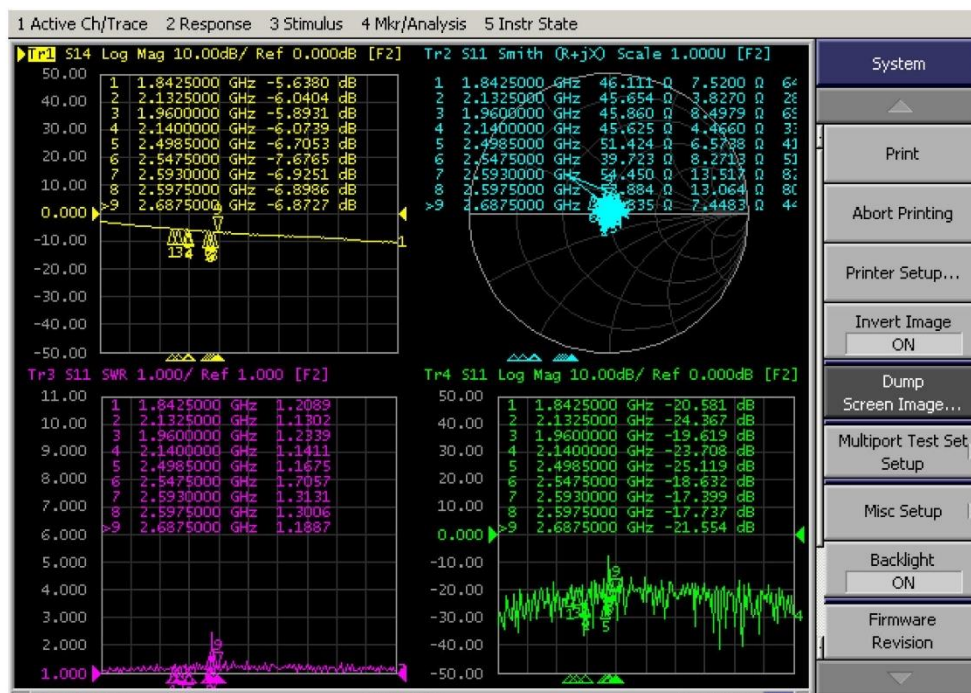


Product Number: iEC12M
Product Name: Coaxial Cable

1445~1977MHz

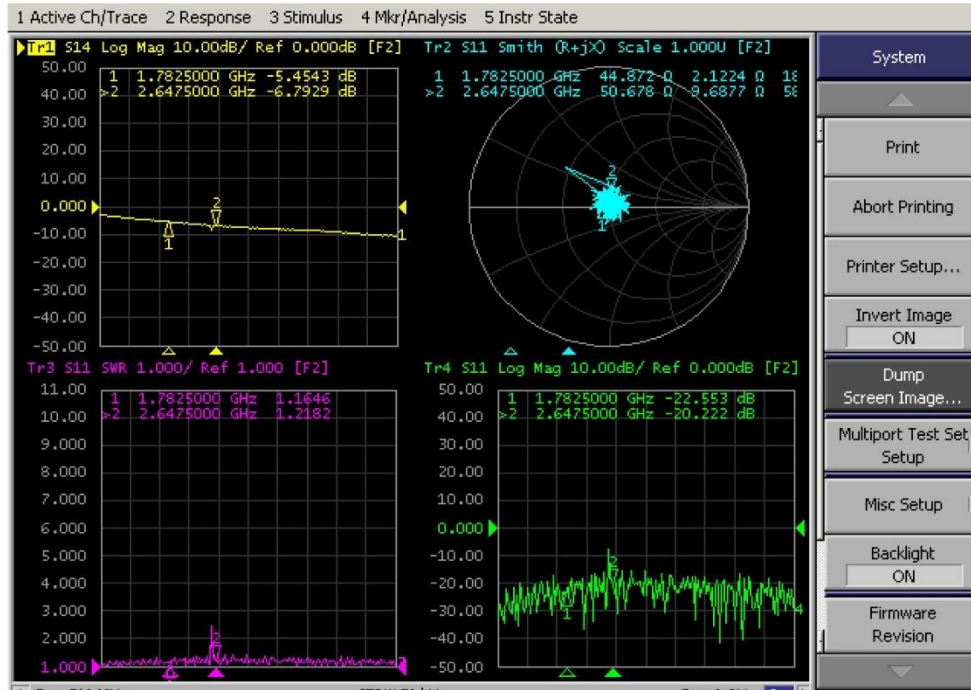


1842~2687MHz

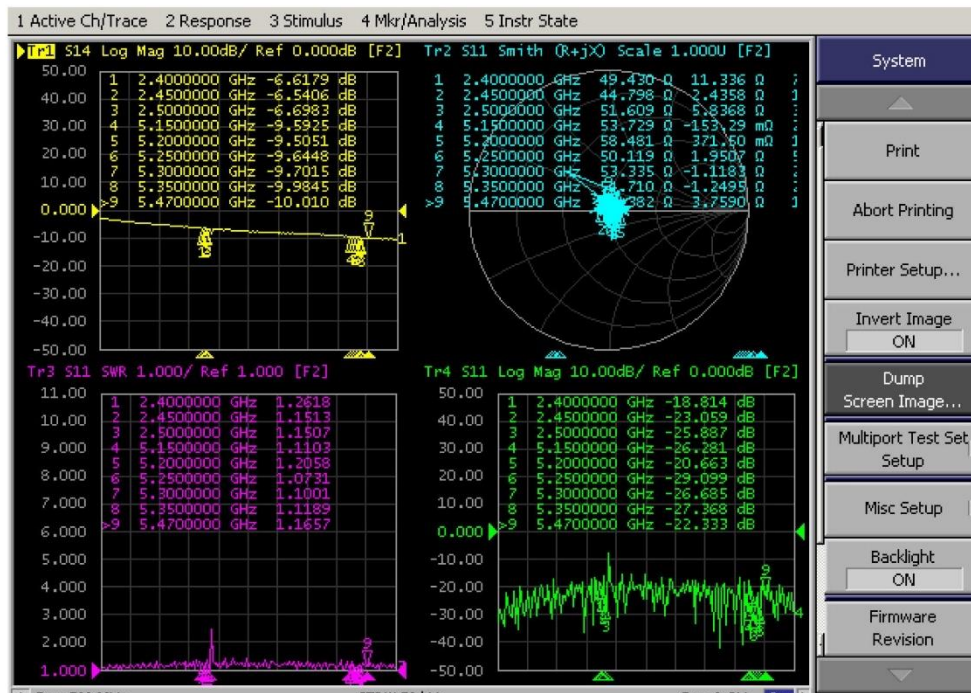


Product Number: iEC12M
Product Name: Coaxial Cable

1782~2647MHz

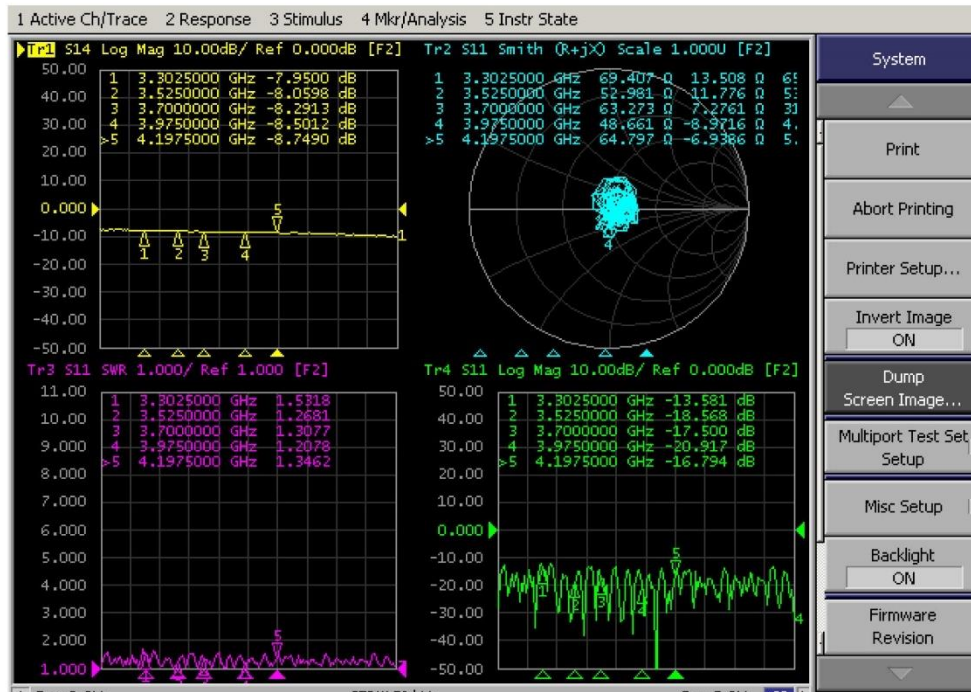


2400~5470MHz

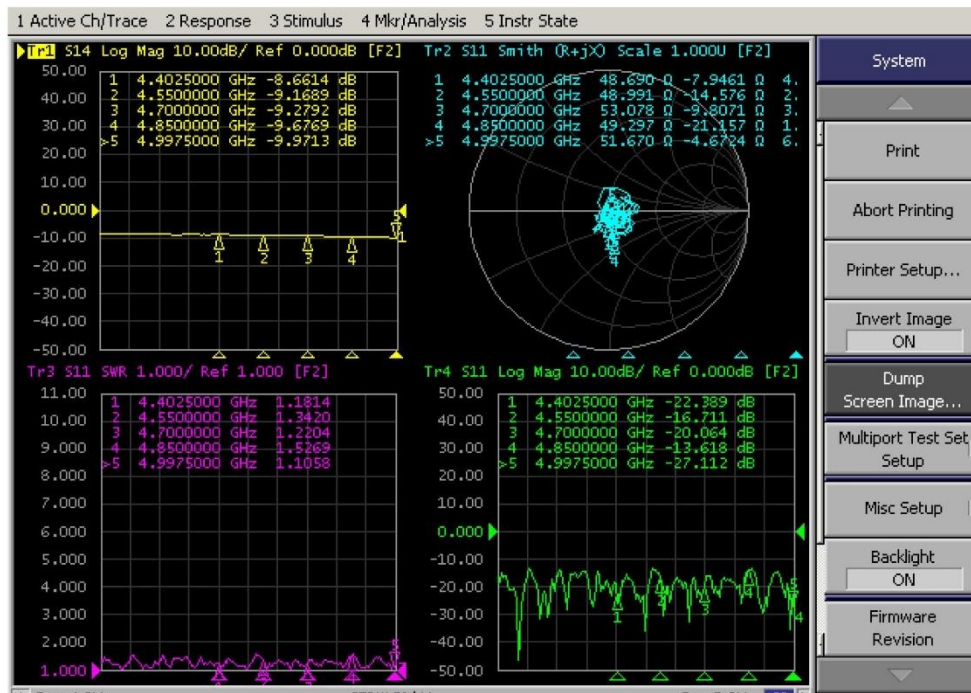


Product Number: iEC12M
Product Name: Coaxial Cable

3302~4197 MHz

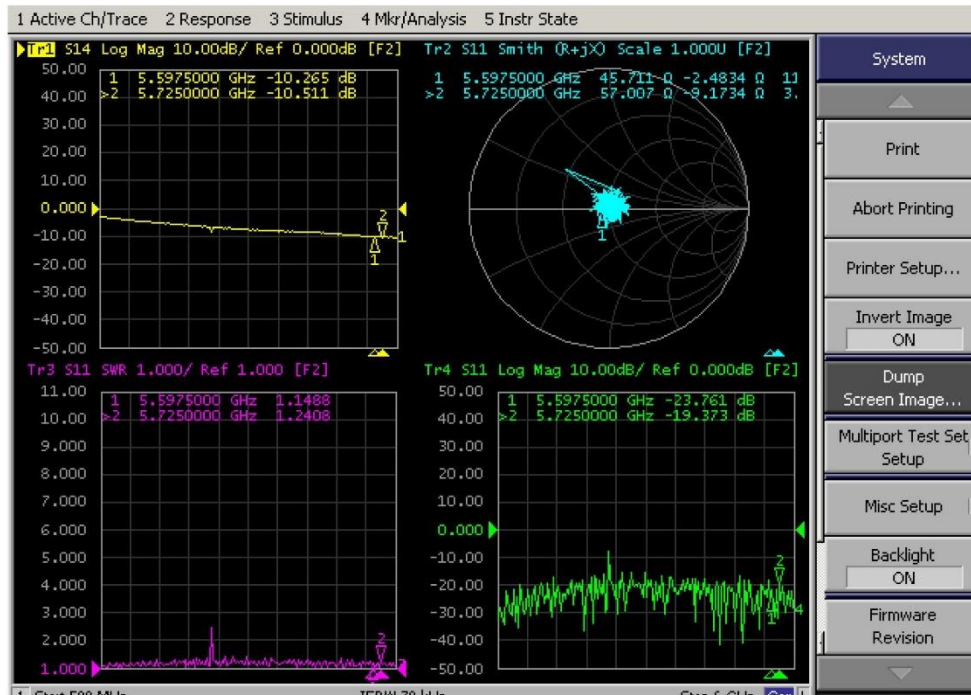


4402~4997 MHz

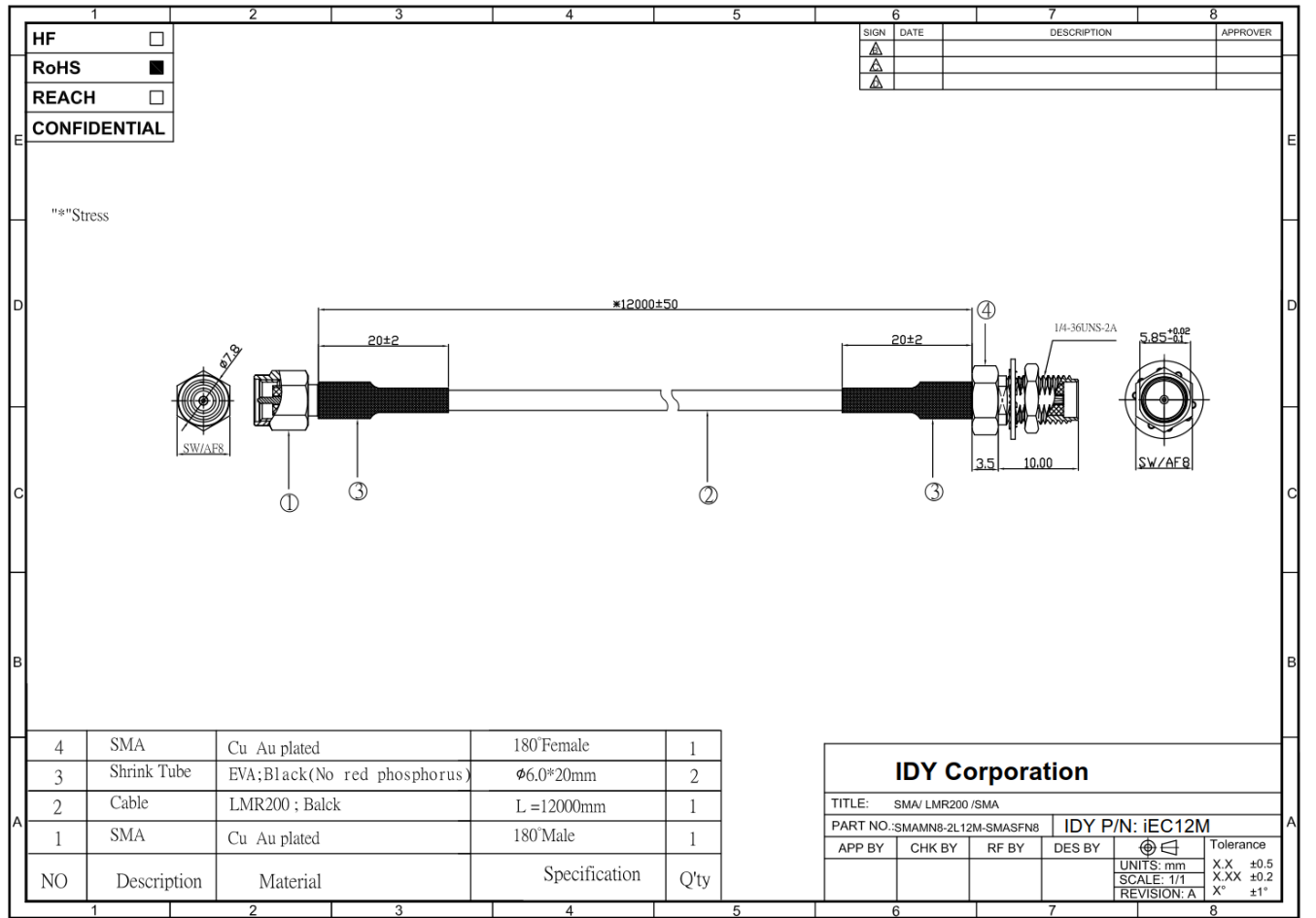


Product Number: iEC12M
Product Name: Coaxial Cable

5597~5725MHz



<IEC12M Mechanical Drawings>



<IEC12M Packaging Specification>

Product packaging specification

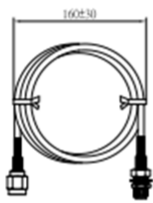
Date : 2021.08.05

IDY P/N: IEC12M

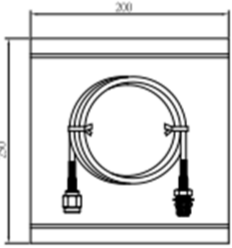
page: 1 of 1

Product NO : SMAMN8-2L12M-SMASFN8		Edition : A
Product Name :Coaxial Cable		Customer : ALL

1.



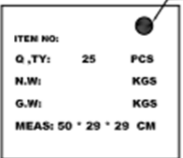
2.



1 PCS / BAG

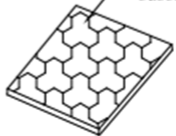
3.

SIDE



ROHS

4.



bubble bag

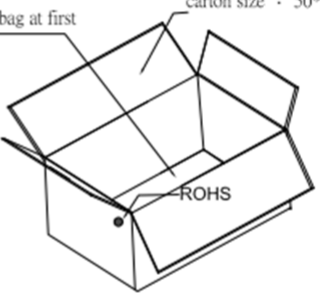
Put a ROHS label on the side of master carton,
fill in the product part number, quantity, net weight and gross weight.

FRONT



5.

Put the bubble bag at first



carton size : 50*29*29CM

ROHS

25PCS / CARTON

APPROVED BY : _____ CHECKED BY : _____ DESIDNED BY : _____

<IEC12M Cable Specification>



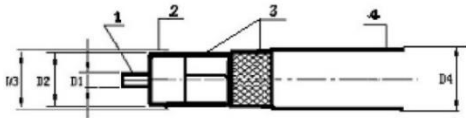
WWW.SUIRONGCABLE.COM

深圳市穗榕同轴电缆科技有限公司

S.R Code: 18040705

R-CB-LMR-200 Coaxial Cable Specification

(LMR-200 同轴电缆规格书)

Type of coaxial cable: LMR-200				
Legend:				
LMR-200:				
1.Inner conductor 内导体				
2. Insulation 电缆芯线				
3.Outer conductor 外导体				
4. Jacket 护套				
Main Electrical properties:				
Characteristic impedance		阻抗	50±2Ohm	
Rated capacitance		电容	78±2 pf/m	
Velocity		速比	81%	
Operating frequency		工作频率	10~3000MHz	
Attenuation at typical frequencies: (dB/m) Remarks: We confirmed that typical frequencies can be up to 6000MHz				
400MHz	900 MHz	1500 MHz	2100MHz	3000MHz
0.220	0.341	0.450	0.551	0.639
VSWR 10~3000MHz		电压驻波比	1.30Max.	
Mechanical Construction:				
Inner conductor: BC		裸铜线	1.12±0.005mm	
Dielectric:foam PE		绝缘 FPE	2.95±0.10mm	
Outer conductor: APA+TC		铝塑覆合箔+镀锡铜线	3.70±0.12mm (16*6/0.12mm)	
Jacket : PVC Black		护套黑色 PVC	5.0±0.10mm	
Engineering data:				
Maximum Pull Tension		最大拉拔力	42 lbs	
Minimum bending radius		最小弯曲半径	50mm	
Operating temperature		工作温度	-25~+70°C	
Reel Length		装盘长度	/	
jacket-Marking		产品标识	LOW LOSS 200 PVC HYT CABLE MICROWAVE SYSTEM/NFC	

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司

WWW.SUIRONGCABLE.COM

生产地:深圳市龙岗区龙西务地铺清水路清水巷 40 号

Tel: +86-755-28217358 Fax+86-755-28217359

2018-04-07

<IEC12M RoHS Test>

SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
 SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
 SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核

1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)

物料中HSF對象物質含量調查表

填表：	
部門：	
職務：	

物料名稱：SMAMN8-2L12M-SMASFN8 (IEC12M)

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS2.0對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	SMA	180° Female 180° Male	銅	39	32915	N.D.	N.D.							CANML2109847002	2021.06.11	黃銅棒 (C3604)	SGS
			鍍金	N.D.	31	N.D.	N.D.							SZXEC2101871802	2021.06.28	銅車件電鍍金	SGS
2	LMR200	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2020811102	2020.11.27	PVC Black	SGS
			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022021108	2020.12.18	HDPE	SGS
			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	YCCT332020060601RZ2	2020.06.06	鋁箔聚脂膜麥拉帶	YCCT
			裸銅	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TSNEC2002256101	2020.11.30	ELECTRICIAN	SGS
			鍍錫銅	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	C210301069002-0	2021.03.05	鍍錫線0.15	CPST
3	Shrink Tub	EVA	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022443601	2020.12.22	HEAT SHRINKABLE TUBING	SGS

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量

包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm

歐盟ROHS指令豁免條款2015/863/EU，鋼中合金元素中的鉛含量達0.35%、鋁含量達0.4%、銅合金中的鉛含量達4%

○ お問い合わせ



株式会社IDY

〒101-0025

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