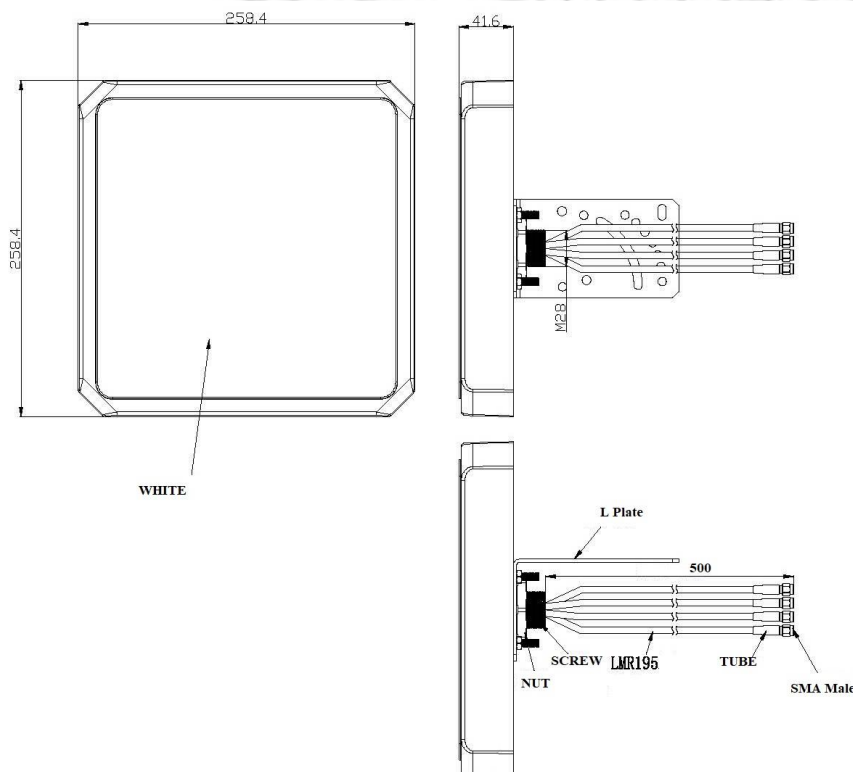


# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3



## Mechanical dimension



# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

## Specifications

Item	Specifications	
Antenna1: 5G  (Lora, 5G cellular, WiFi 6E and UWB)	Frequency Range	600-8000GHz
	Polarization	Linear
	Gain	10dBi (Max)
	V.S.W.R	<2.5
	Efficiency	>50%
Antenna2: 5G  (Lora, 5G cellular, WiFi 6E and UWB)	Frequency Range	600-8000GHz
	Polarization	Linear
	Gain	10dBi (Max)
	V.S.W.R	<2.5
	Efficiency	>50%
Antenna3: 5G  (Lora, 5G cellular, WiFi 6E and UWB)	Frequency Range	600-8000GHz
	Polarization	Linear
	Gain	10dBi (Max)
	V.S.W.R	<2.5
	Efficiency	>50%
Antenna4: 5G  (Lora, 5G cellular, WiFi 6E and UWB)	Frequency Range	600-8000GHz
	Polarization	Linear
	Gain	10dBi (Max)
	V.S.W.R	<2.5
	Efficiency	>50%
Mechanical	Dimension	258mm *258mm*41.6mm
	Connector Type	SMA Male, TS9 Via Adapters, RP- SMA Male Via Adapters
	Cable	LMR200 equivalent 2meters
Environmental	Operating Temperature	-40°C~+85°C
	Relative Humidity	Up to 95%
	Vibration	10 to 55Hz with 1.5mm amplitude 2hours
	Ingress Protection	IP66(exclude cable outlet)
	Environmentally Friendly	ROHS Compliant

# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

## Measured Gain Performances

Passive Test For 600-8000		
Freq (MHz)	Effi (%)	Gain (dBi)
600	18.94	0.9
650	15.12	-0.06
700	12.95	-1.02
750	14.74	-1.05
800	22.46	0.19
850	16.57	0.07
900	15.33	-0.35
950	16.71	0.38
1000	21.02	1.49
1050	24.83	2.59
1100	24.79	3.59
1150	31.83	4.89
1200	42.37	5.85
1250	50.29	6.43
1300	63.78	7.78
1350	63.81	7.85
1400	55.69	7.35
1450	62	7.51
1500	50.22	6.91
1550	47.36	6.56
1600	51.86	7.33
1650	50.28	6.6
1700	49.86	5.71
1750	53.97	4.86

Passive Test For 600-8000		
Freq (MHz)	Effi (%)	Gain (dBi)
1800	50.25	4.53
1850	49.54	4.98
1900	53.2	6.24
1950	57.58	6.86
2000	57.61	6.83
2050	58.76	6.89
2100	61.03	7.08
2150	47.07	5.86
2200	47.27	5.91
2250	50.15	6.24
2300	55.64	6.81
2350	61.36	7.32
2400	61.81	7.4
2450	57.52	7.72
2500	59.48	8.28
2550	55.73	8.25
2600	60.19	8.82
2650	66.12	9.63
2700	66.58	9.76
2750	67.09	9.29
2800	87.91	10.65
2850	83.87	10.31
2900	78.09	9.76
2950	77.34	9.1

# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

## Measured Gain Performances

Passive Test For 600-8000		
Freq (MHz)	Effi (%)	Gain (dBi)
3000	77.31	7.77
3050	78.61	6.81
3100	78.98	6.18
3150	72.36	5.82
3200	74.01	6.2
3250	73.59	5.65
3300	72.84	5.52
3350	74.39	5.93
3400	73.46	5.57
3450	68.89	5.18
3500	64.94	5.46
3550	63.69	5.61
3600	66.9	5.75
3650	68.29	5.76
3700	64.24	5.69
3750	62.14	5.76
3800	59.15	5.46
3850	55.31	4.76
3900	59.03	3.84
3950	62.14	3.81
4000	63.53	3.92
4050	65.12	4.01
4100	63.42	4.08
4150	62.1	3.88

Passive Test For 600-8000		
Freq (MHz)	Effi (%)	Gain (dBi)
4200	60.28	4.11
4250	61.93	4.52
4300	59.88	4.55
4350	57.47	4.51
4400	57.28	4.63
4450	54.93	4.11
4500	60.15	4.28
4550	60.24	4.43
4600	56.57	4.45
4650	58.18	4.62
4700	58.2	4.56
4750	57.01	4.48
4800	61.49	4.66
4850	61.48	4.14
4900	65.96	5.01
4950	64.75	5.37
5000	69	6
5050	65.44	5.86
5100	62.63	5.3
5150	53.72	4.49
5200	55.43	4.44
5250	55.36	4.25
5300	54.42	3.73
5350	64.41	4.06

# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

## Measured Gain Performances

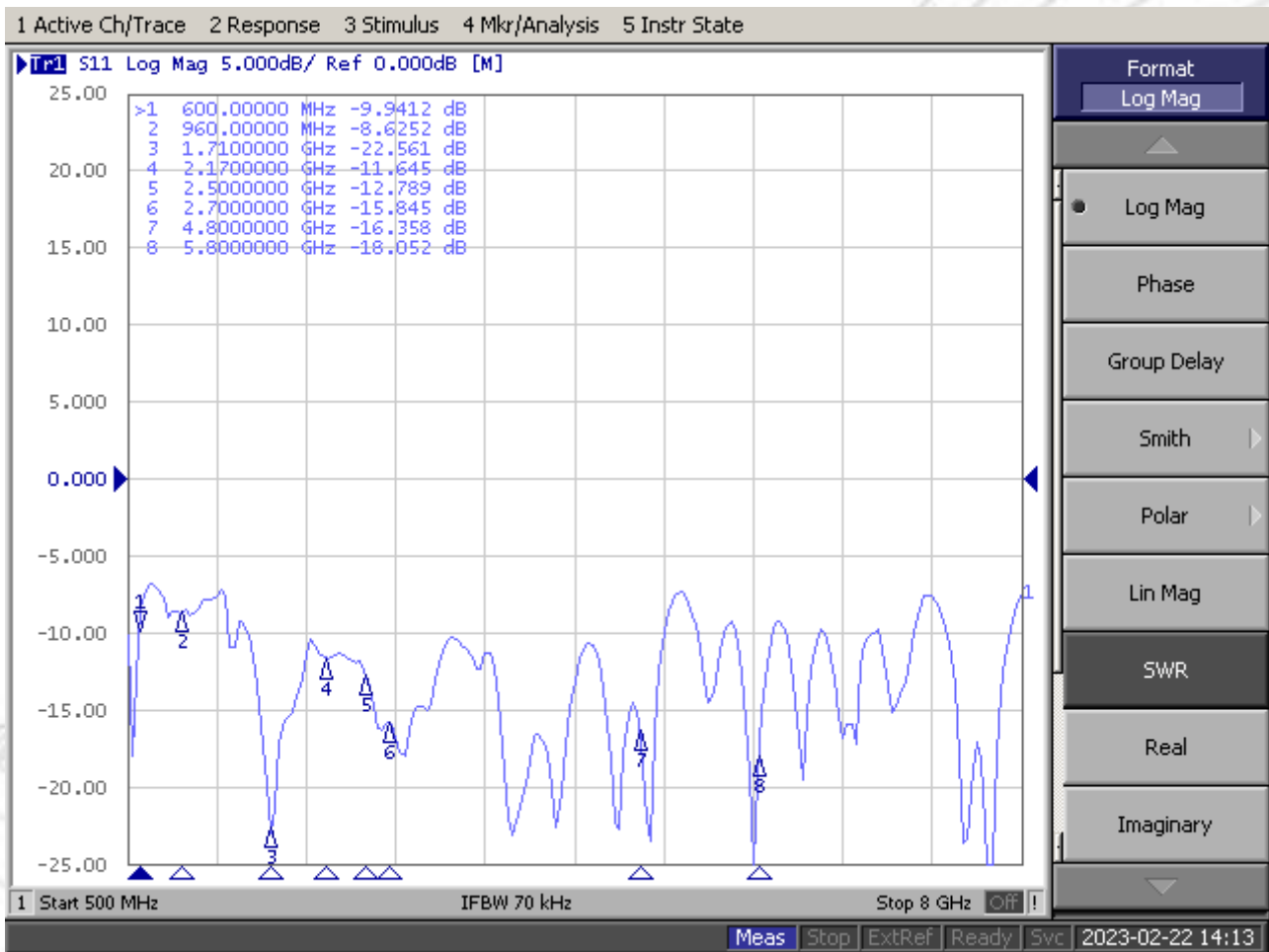
Passive Test For 600-8000		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5400	70.12	4.78
5450	68.96	5.13
5500	68.85	5.79
5550	71.82	6.47
5600	72.63	6.95
5650	75.76	7.76
5700	75.84	7.82
5750	79.36	8.28
5800	76.44	8.26
5850	79.61	8.6
5900	64.18	7.89
5950	78.17	8.63
6000	77.64	8.51
6050	86.66	8.82
6100	79.6	8.18
6150	75.15	7.76
6200	67.89	6.68
6250	58.84	5.46
6300	56.79	5.14
6350	56.83	5.21
6400	54.67	5.35
6450	53.19	5.58
6500	55.33	6.05
6550	55.1	6.18

Passive Test For 600-8000		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
6600	49.49	5.53
6650	44.83	4.03
6700	50.5	4.84
6750	45.42	4.77
6800	42.39	4.74
6850	42.73	4.44
6900	37.5	2.69
6950	35.84	2.94
7000	32.94	2.35
7050	32.17	1.27
7100	36.38	2.98
7150	40.56	4.44
7200	42.28	5.06
7250	42.67	5.29
7300	40.03	4.55
7350	42.46	4.08
7400	46.24	4.2
7450	44.57	4.82
7500	47.18	5.5
7550	50.01	6.14
7600	45.3	5.84
7650	39.86	4.91
7700	44.24	5.26
7750	48.56	5.03
7800	47.53	4.41
7850	38	4.09
7900	35.32	3.95
7950	33.41	2.84
8000	33.94	2.34

# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

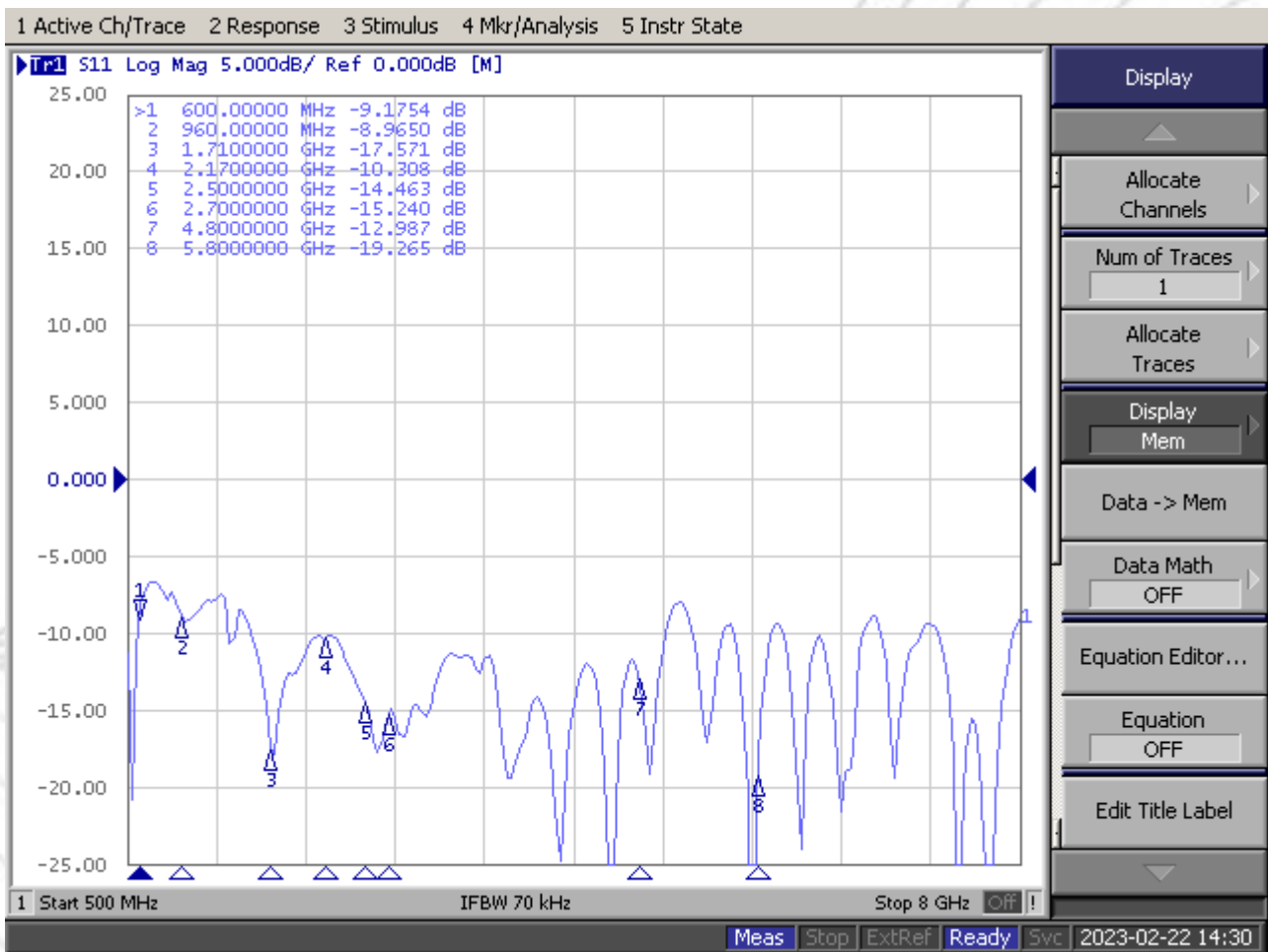
## Measured results S11



# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

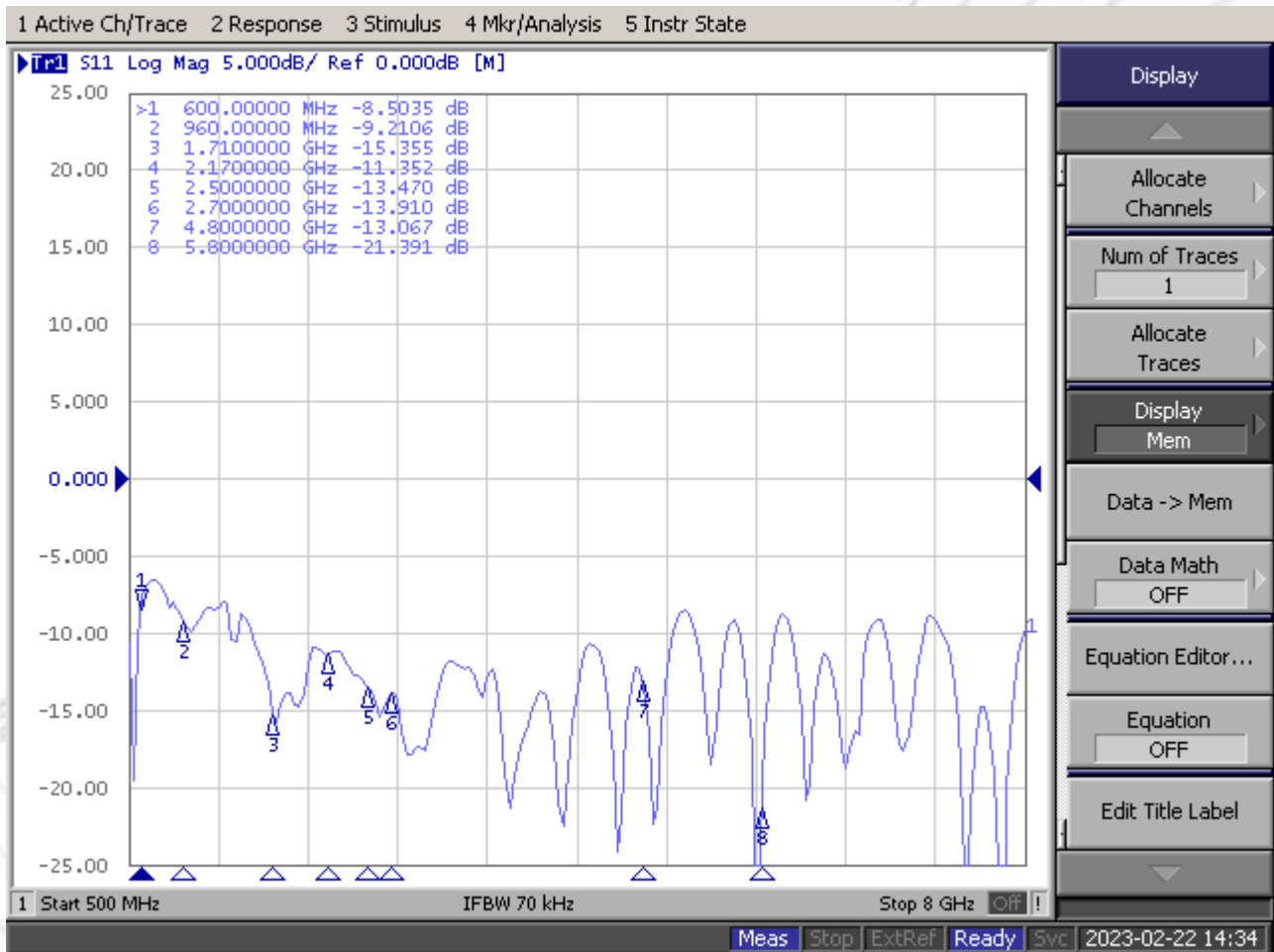
## Measured results S21



# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

## Measured results S31

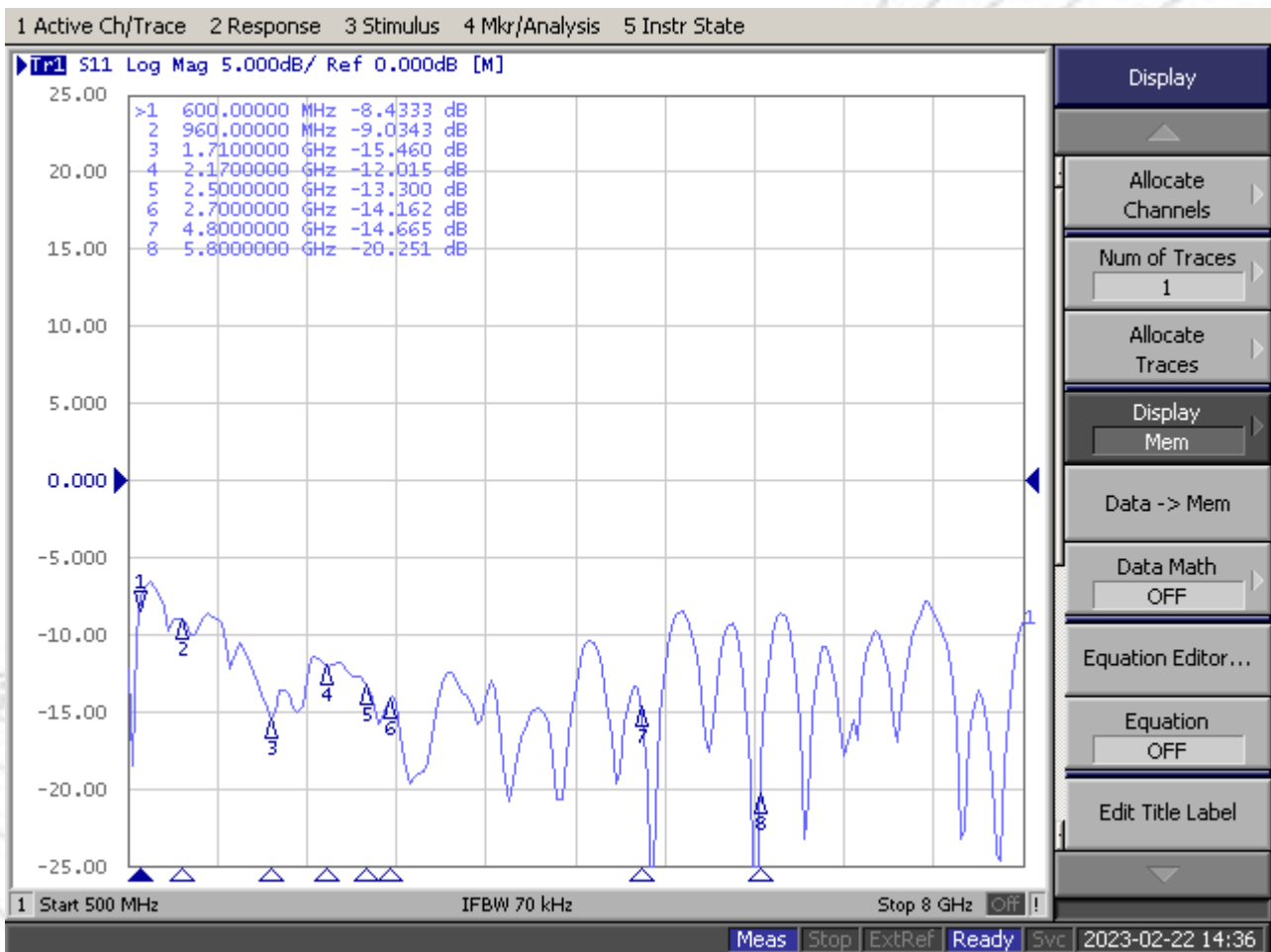




# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

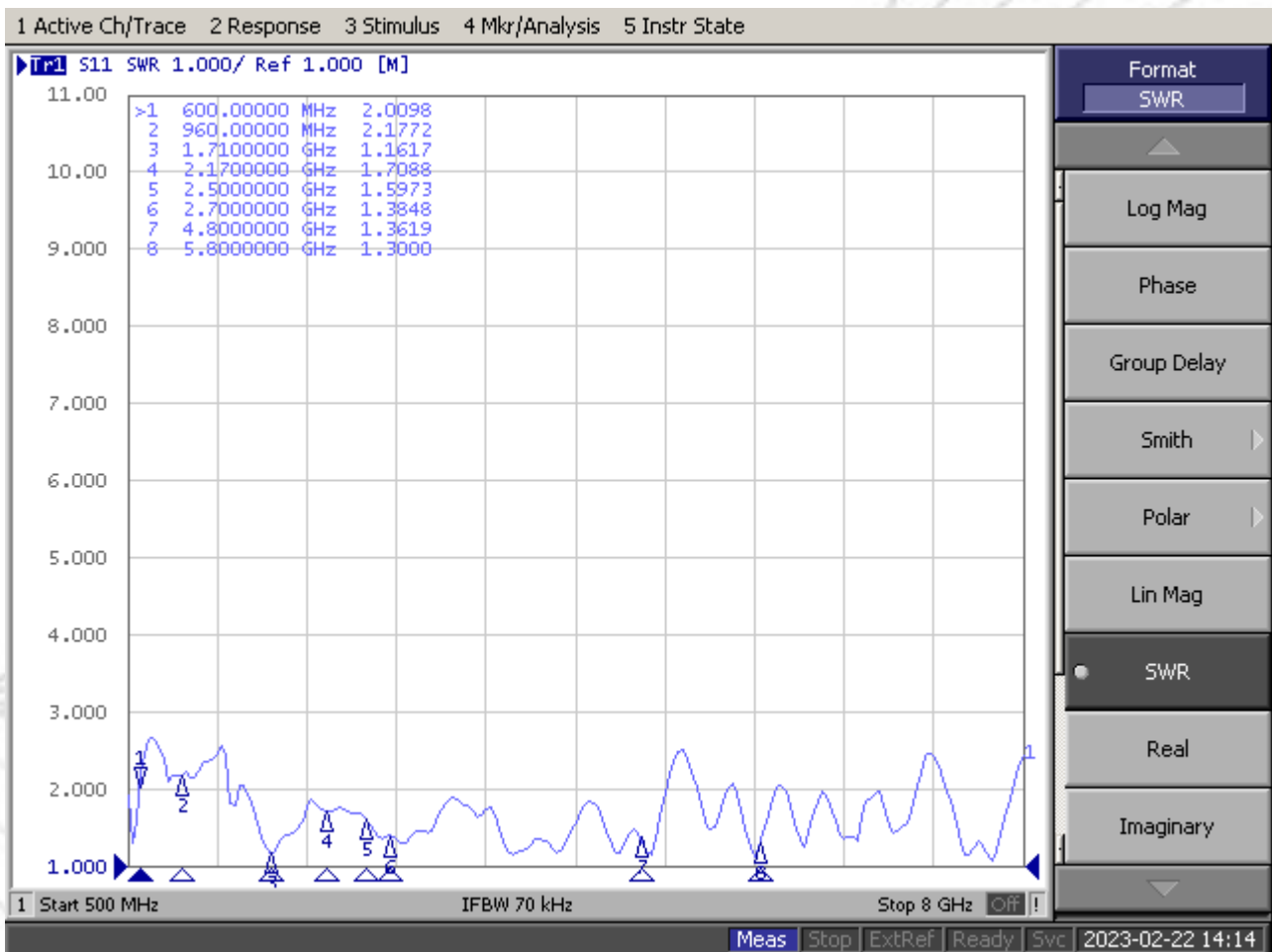
## Measured results S41



# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

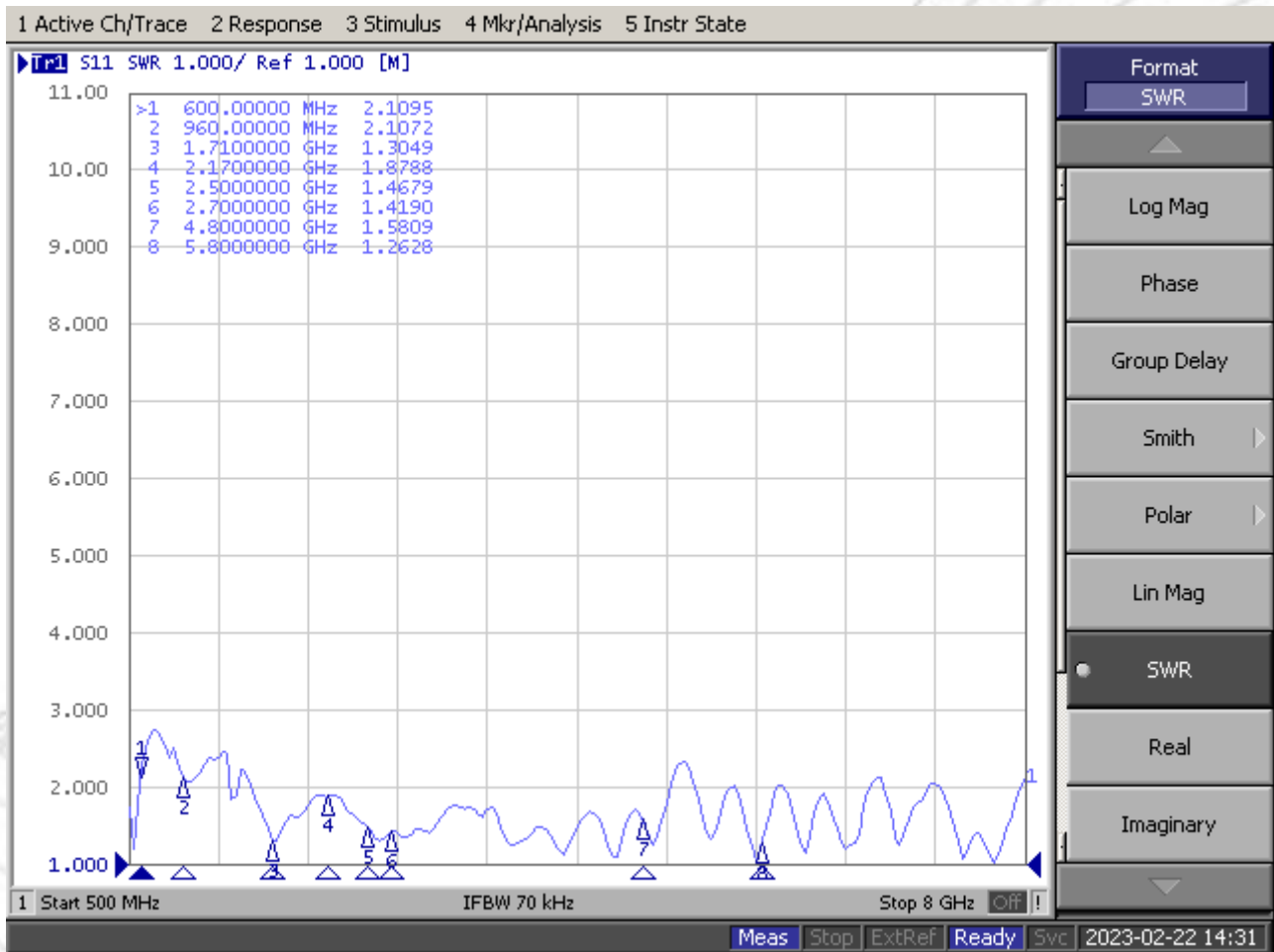
## Measured results Port1 VSWR



# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

AN.4MIMO.600.8000.UB3

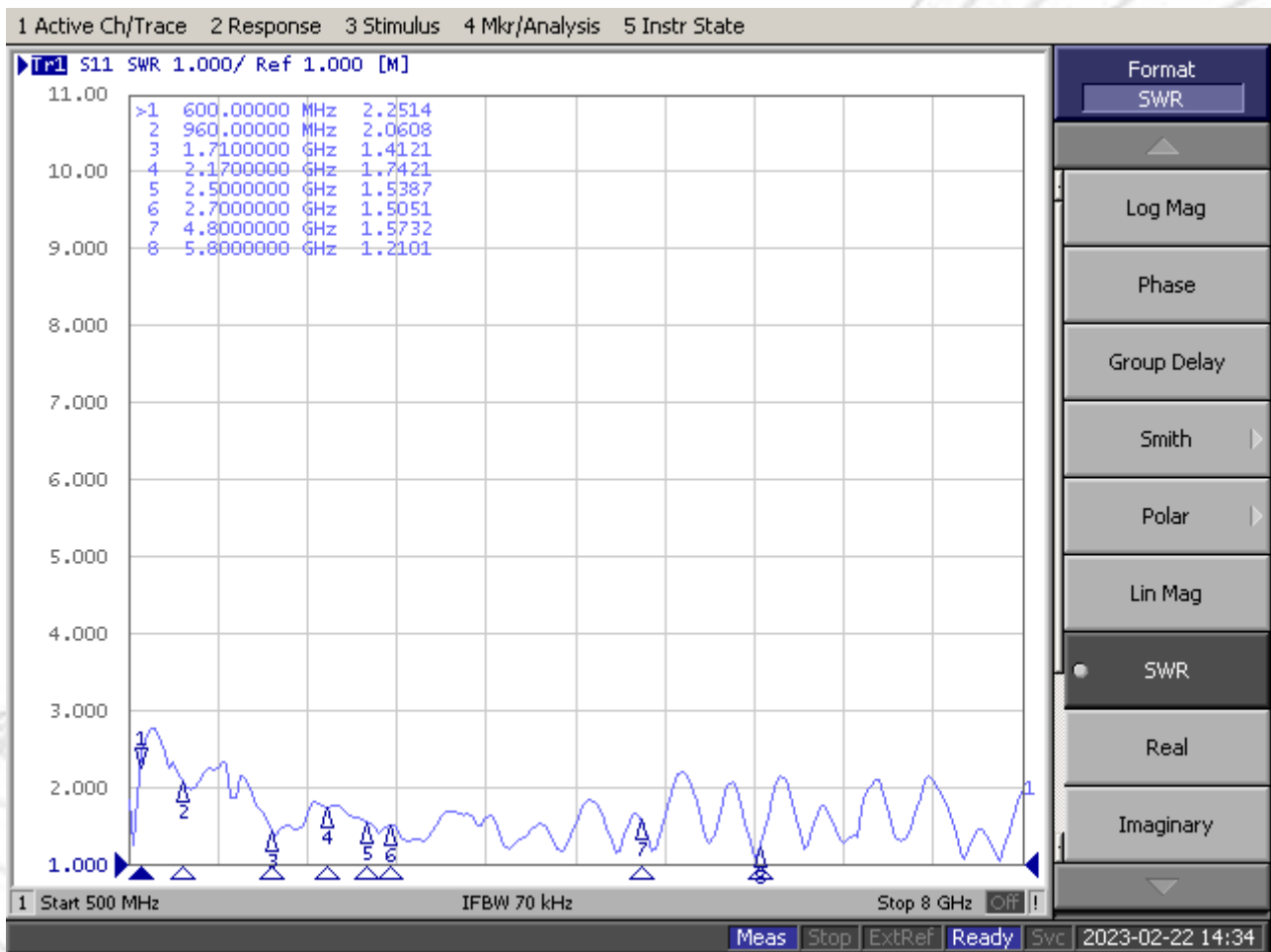
## Measured results Port2 VSWR



# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

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## Measured results Port3 VSWR



# Maswell 5G WiFi 6E 4X4 MIMO Panel Antenna 600-8000MHz

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## Measured results Port4 VSWR

