



Antenna Design And Test Report

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Debug Version: V8.0

Date of report: Tuesday, 28 April 2026

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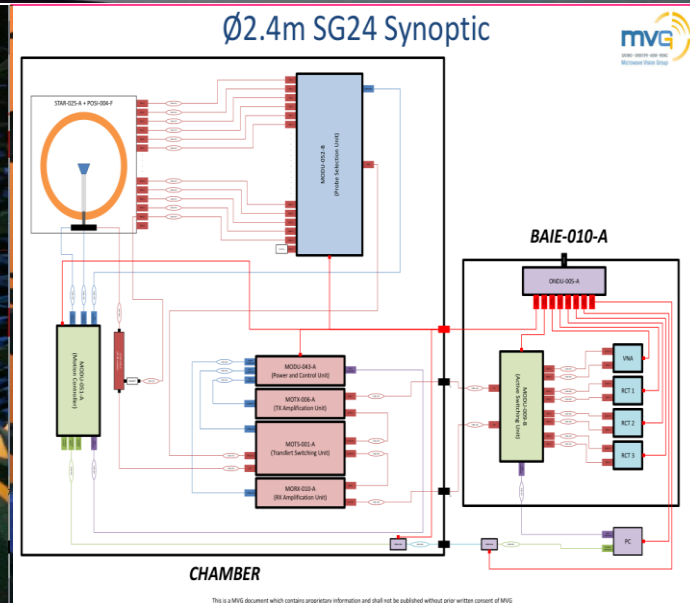
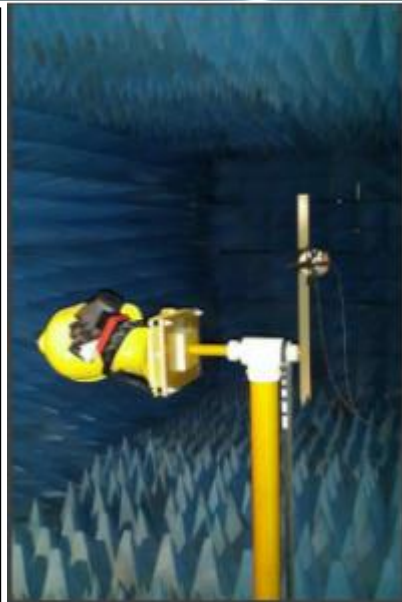
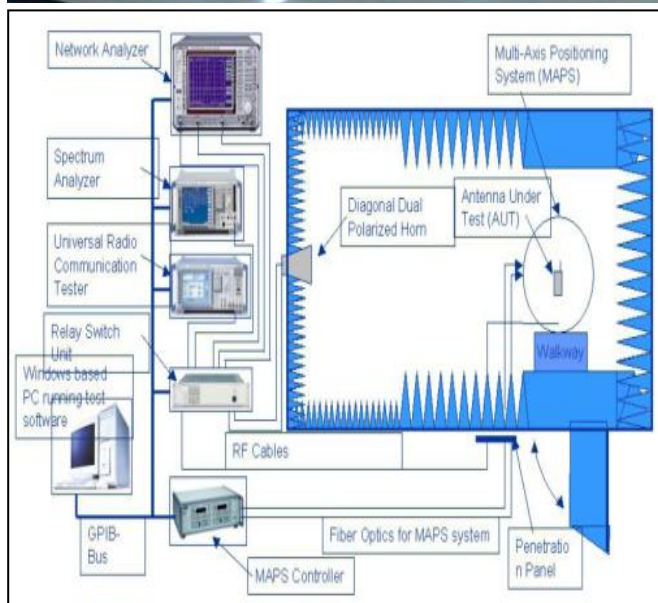
08

Additional Notes



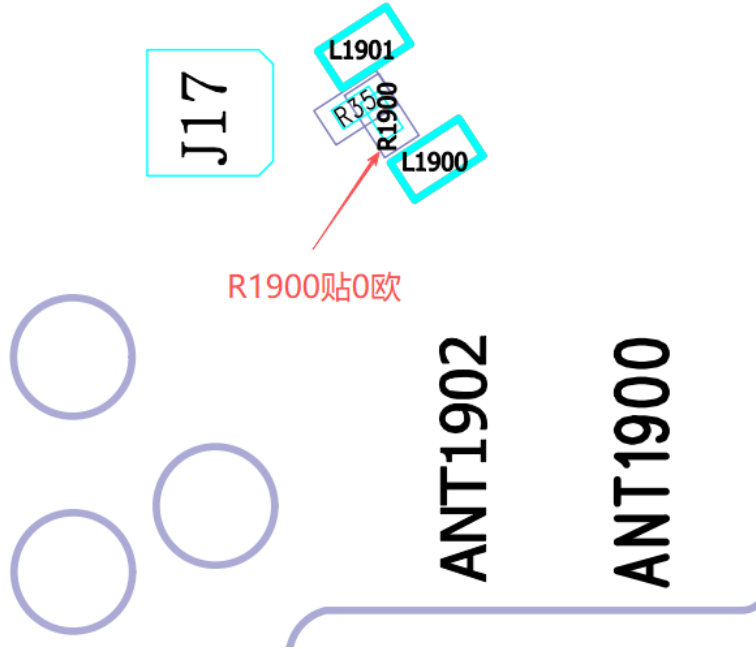


main antenna design spectrum	:	WiFi+BT+GPS	Report version	:	Date	Content
		4G/3G/2G	V6		2026.01.16	Report Optimization
			V7		2026.01.22	test report



Three far-field 3D fully electromagnetic microwave anechoic chamber laboratory systems, and one MVG SG24LT (Satmio) near-field 3D microwave anechoic chamber laboratory system (operating in sync with relevant national laboratories).

Everything for the customer



Note: The R1900 is priced at 0 euros.

AGPS

Satellites

Information

NMEA Log

GPS Circle Test

GPS Test

Provider: gps enabled
 Status: AVAILABLE
 TTFF: 110236 ms
 Date: GMT -480 2026/01/22
 Time: 11:07:55
 First Latitude: 22.655447616666667
 First Longitude: 113.99452758333334
 Latitude: 22.655509350000003
 Longitude: 113.99452683333332
 Altitude: 113.022
 Accuracy: 6.39496
 Heading: 246.902
 Speed: 0.0
 Ave CN0: <195,39><27,34><16,25><31,26><28,28>

GPS version:GNSS_20B_W25.23.2_Q FL_22B_W25.22.1

AGNSS Version:W25.20.6_V3.7.49

SGPS version:v2.0.0_2019.08.30

☐ Hot

☐ Warm

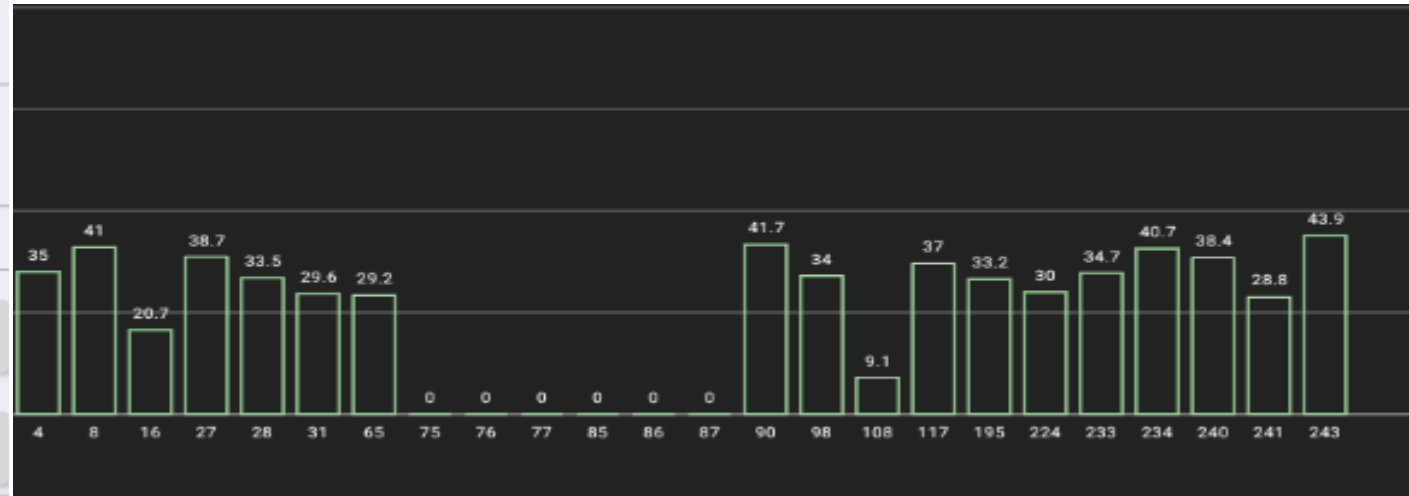
☒ Cold

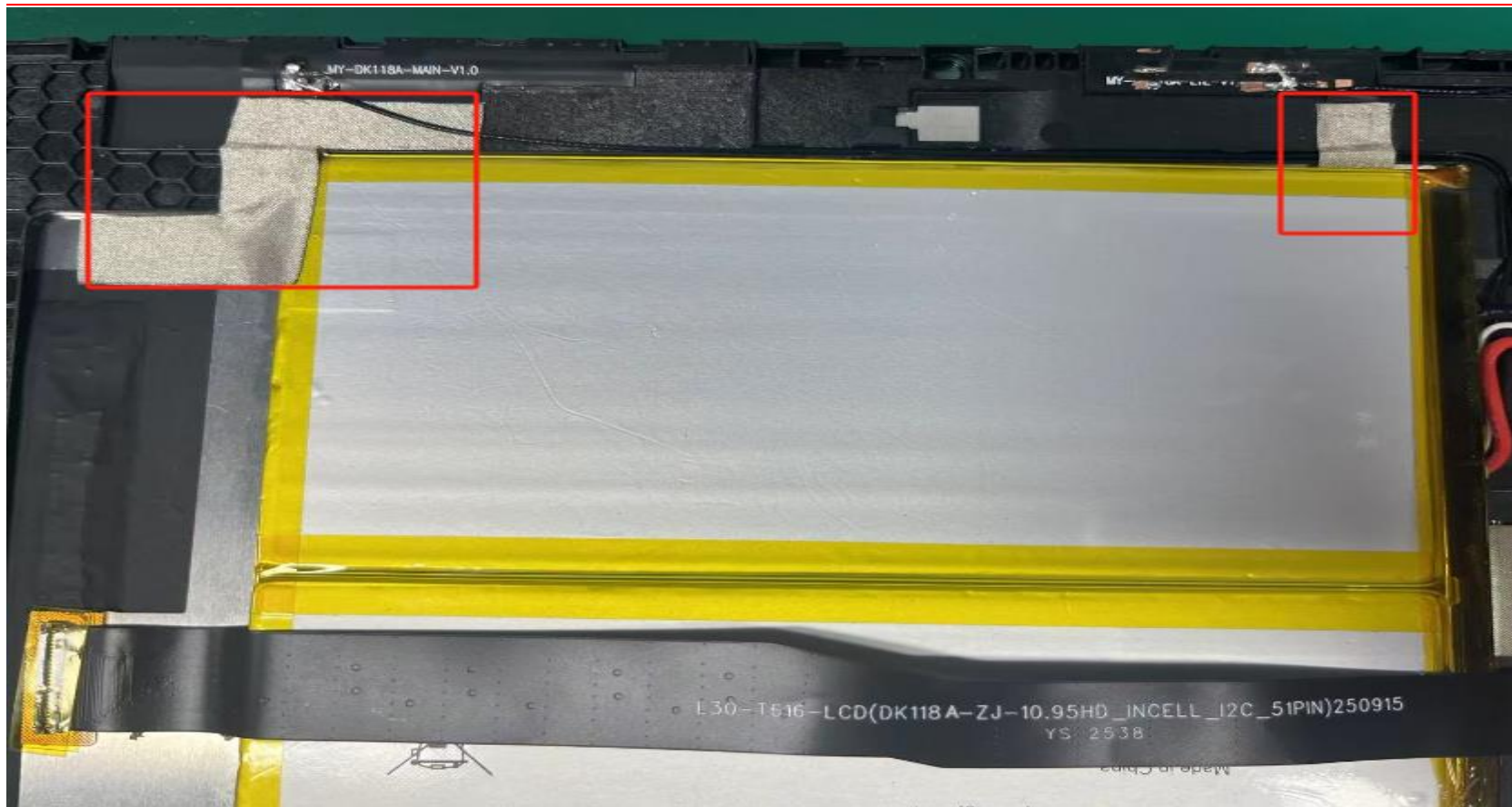
☐ Factory

Cold Paramter

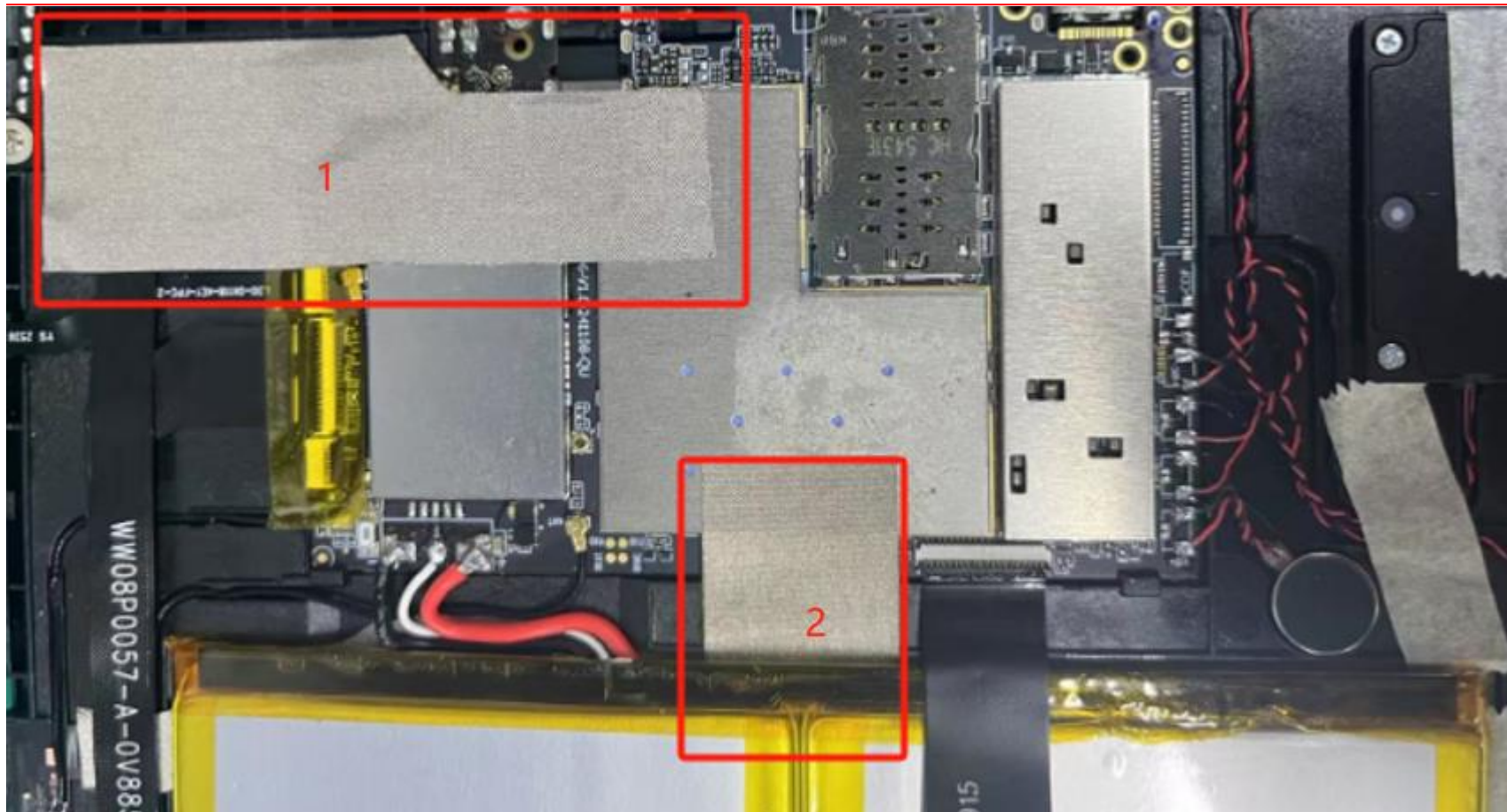
Open SGPS

Close SGPS





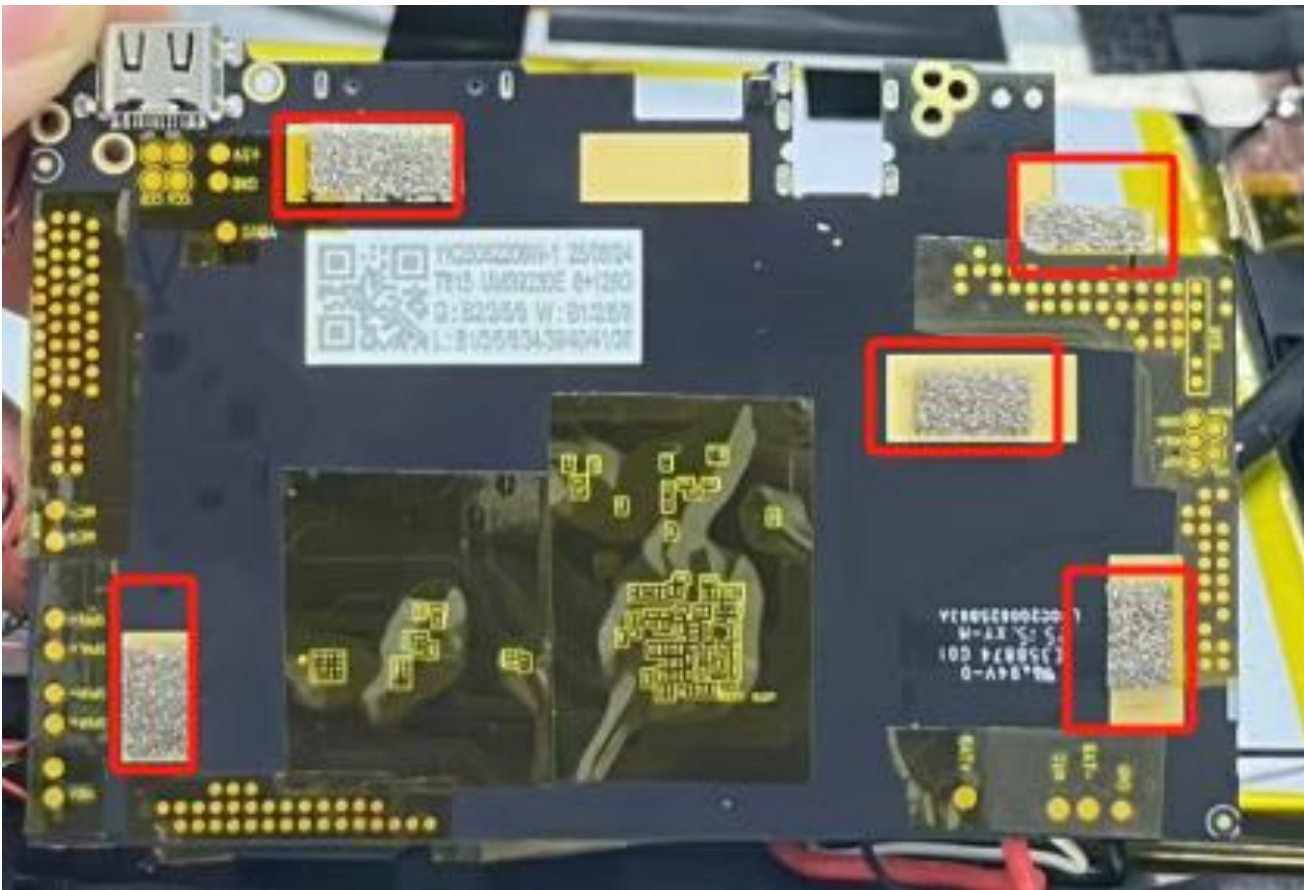
As shown in Figure :1.The antenna pull conductor, indicated by the red box, is grounded to the screen.



As shown in Figure :

1. (red box), the conductive tape on the patch cord and the shielding cover are grounded. The conductive tape must be properly attached, providing a 2-3 dB improvement for WiFi performance.

2. As indicated by the red box, the conductive tape on the shielding cover is grounded to the screen.



As shown in the figure: 1. As indicated by the red box, the motherboard is covered with sponge and the screen is grounded.



Band	TRP	TIS
WiFi B	15.59	
	15.1	
	17.07	-82.34
WiFi G	12.69	
	12.57	
	13.29	-71
WiFi N	13.58	
	13.27	
	15.39	-65.02
WiFi A	13.77	
	13.68	
	14.35	-71.3
WiFi AC	14.49	
	14.65	
	15.33	-65.43

Band	CH	TRP	TIS	Band	CH	TRP	TIS
LTE B1	L	17.13	-91.04	LTE B5	L	17.02	-89.96
	M	17.08			M	17.32	
	H	17.27			H	17.47	
LTE B2	L	17.04	-91.7	LTE B7	L	17.25	-88.51
	M	17.06			M	17.12	
	H	17.77			H	17.66	
LTE B3	L	17.31	-90.6	LTE B8	L	19.08	-90.51
	M	17.28			M	18.16	
	H	17.11			H	17.27	
LTE B4	L	17.36	-90.62	LTE B66	L	16.46	-91.61
	M	17.23			M	16.55	
	H	17.18			H	18.06	
LTE B18	L	17.04	-90.85	LTE B19	L	17	-91.33
	M	17.3			M	17.01	
	H	17.08			H	17.76	

Band	CH	TRP	TIS	Band	CH	TRP	TIS
LTE B20	L	17.06	-91.33	LTE B26	L	17.05	-90.01
	M	17.12			M	17.2	
	H	17.01			H	17.12	
LTE B28	L	14.99	-91.38	LTE B38	L	17.09	-90.92
	M	15.42			M	17.24	
	H	16.01			H	17.05	
LTE B40	L	17.14	-89.35	LTE B41	L	17.08	-90.53
	M	17.85			M	17.29	
	H	17.53			H	17.1	

Band	CH	TRP	TIS	Band	CH	TRP	TIS
G850	L	27.42	-100.51	W1	L	17.44	-107.87
	M	26.72			M	16.46	
	H	26.16			H	17.75	
G900	L	26.95	-99.01	W2	L	17.69	-104.32
	M	26.84			M	17.91	
	H	26.23			H	17.99	
G1800	L	23.43	-104.63	W4	L	17.19	-107.26
	M	24.46			M	17.45	
	H	24.76			H	17.77	
G1900	L	24.95	-103.28	W5	L	17.45	-103.76
	M	24.83			M	17.47	
	H	25.21			H	17	
				W8	L	17.5	-101.04
					M	16.78	
					H	16.11	

Frequency	Gain . dB
700	-4.10
710	-3.80
720	-2.36
730	-2.45
740	-2.84
750	-2.46
760	-1.62
770	-1.81
780	-1.83
790	-1.16
800	-0.84
810	-1.40
820	-1.48
830	-1.85
840	-1.11
850	-1.58
860	-1.12
870	-0.60
880	-1.30
890	-1.51
900	-0.77
910	-0.83
920	-1.26
930	-1.34
940	-0.79
950	-1.28
960	-1.67
970	-1.63
980	-1.46
990	-1.95
1000	-2.36

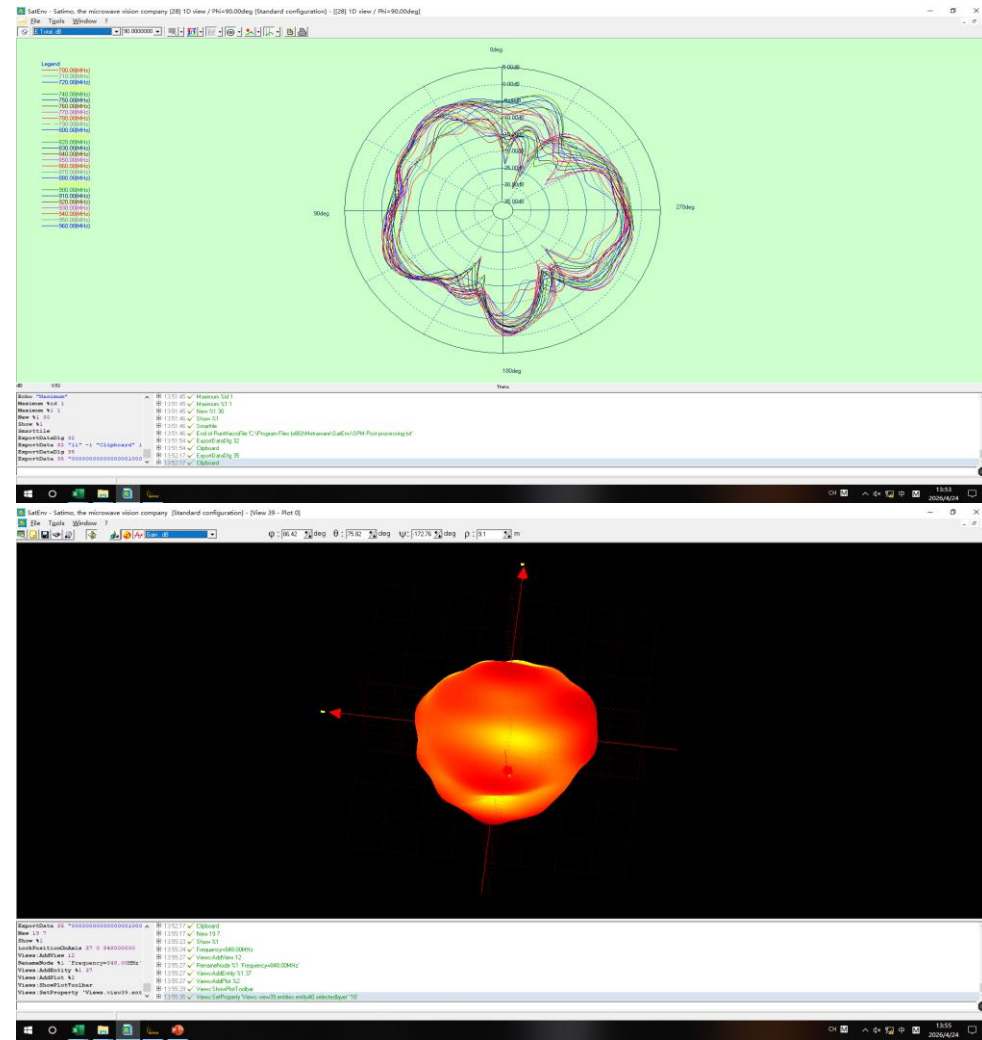
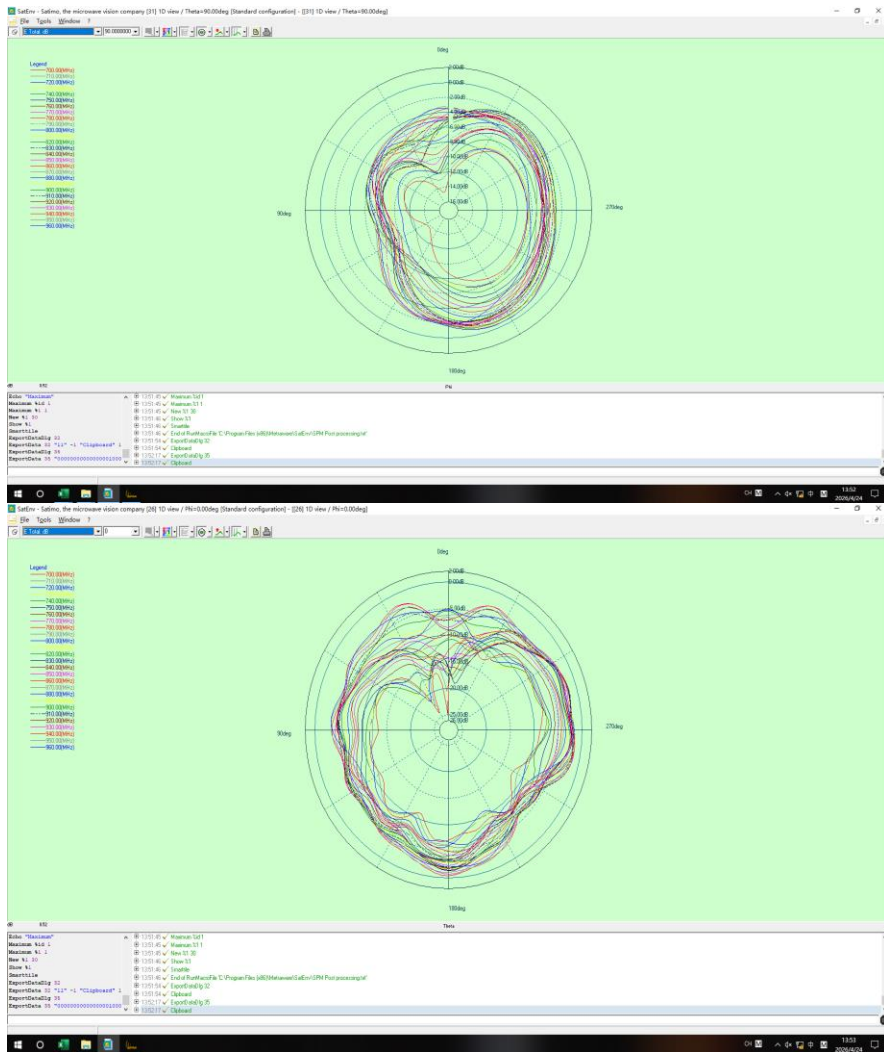
Frequency	Gain . dB
1700	0.52
1733	0.83
1766	2.45
1799	1.93
1832	2.74
1865	0.75
1898	0.88
1931	2.58
1964	2.38
1997	2.61
2030	2.38
2063	2.76
2096	1.58
2129	1.02
2162	1.31
2195	1.14
2228	1.43
2261	1.68
2294	1.19
2327	1.10
2360	1.66
2393	1.19
2426	1.72
2459	1.32
2492	1.75
2525	1.19
2558	0.02
2591	0.63
2624	0.70
2657	1.13
2690	1.32

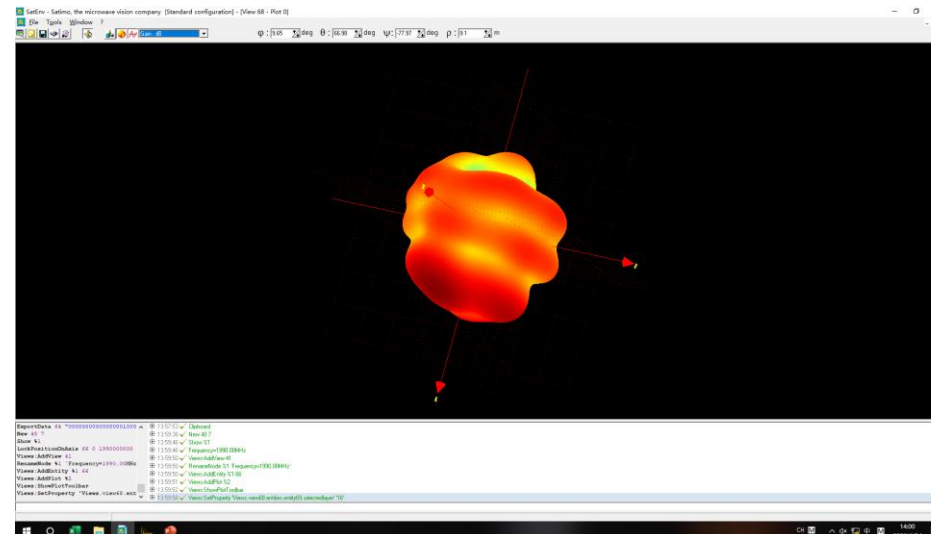
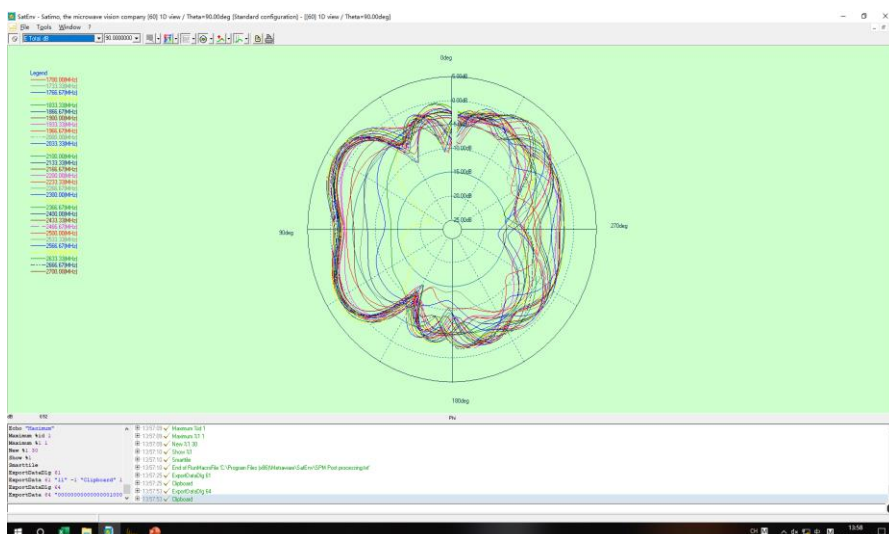
Frequency	Gain . dB
1550	3.43
1555	3.47
1560	3.50
1565	3.42
1570	3.60
1575	3.52
1580	3.52
1585	3.59
1590	3.61
1595	3.58
1600	3.63

Frequency	Gain . dB
2400	0.68
2410	0.75
2420	0.59
2430	1.00
2440	0.48
2450	0.46
2460	0.40
2470	0.33
2480	0.33
2490	-0.14
2500	0.30

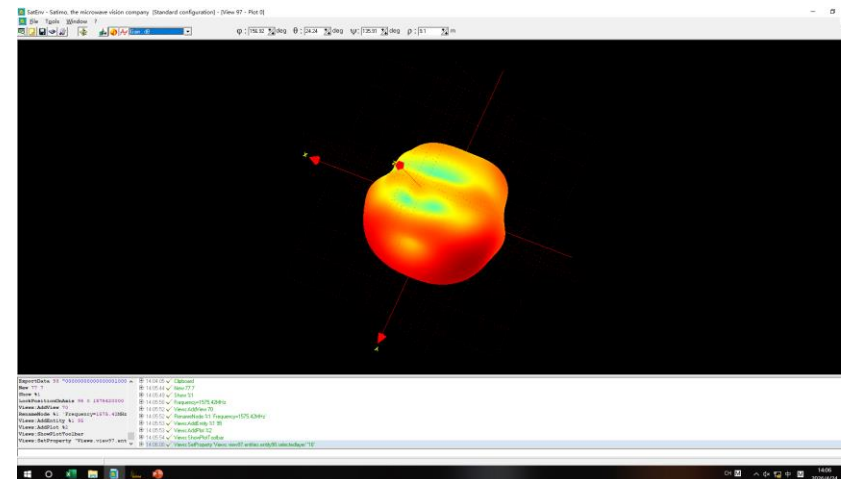
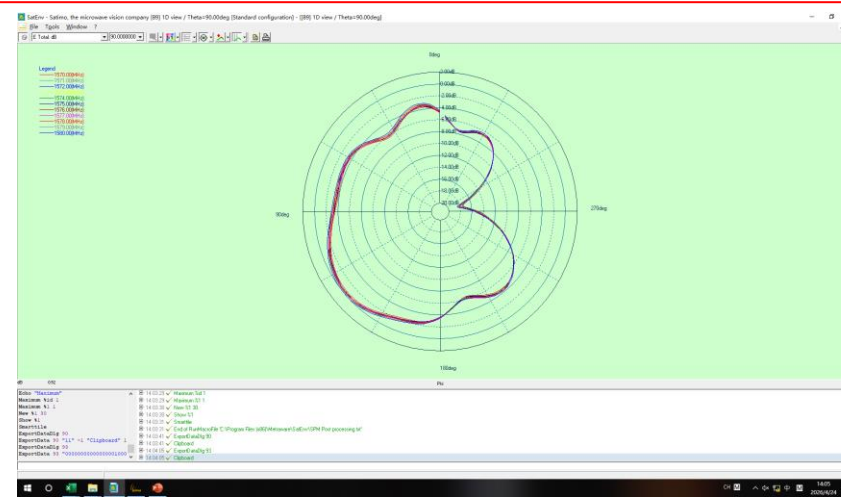
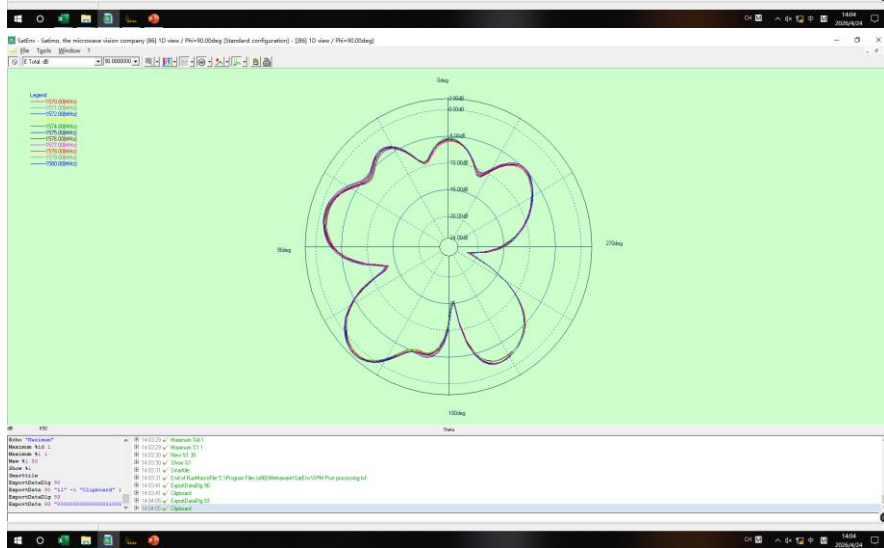
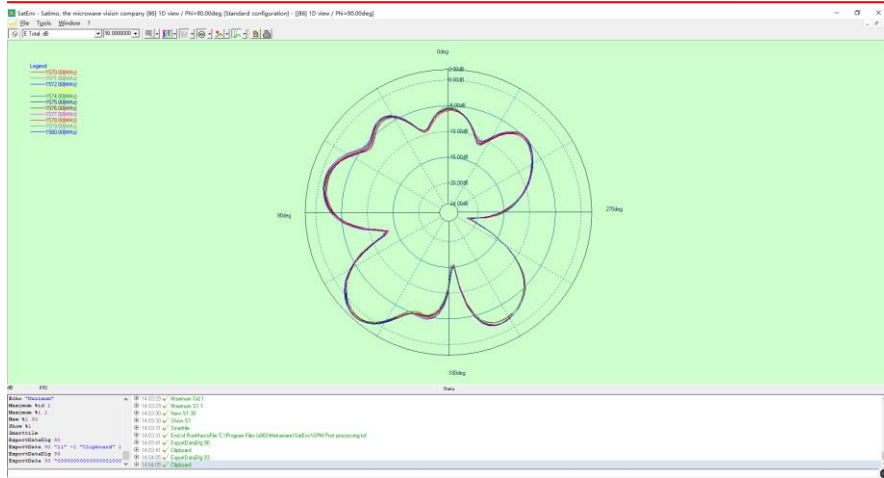
Frequency	Gain . dB
5200	-1.50
5230	-1.53
5260	-1.56
5290	-1.56
5320	-1.54
5350	-1.01
5380	0.33
5410	1.00
5440	0.67
5470	-2.07
5500	-2.28
5530	-2.49
5560	-2.57
5590	-2.79
5620	-2.81
5650	-2.51
5680	-2.31
5710	-2.88
5740	-2.75
5770	-2.05
5800	-2.89

Antenna Report 700MHz-960MHz

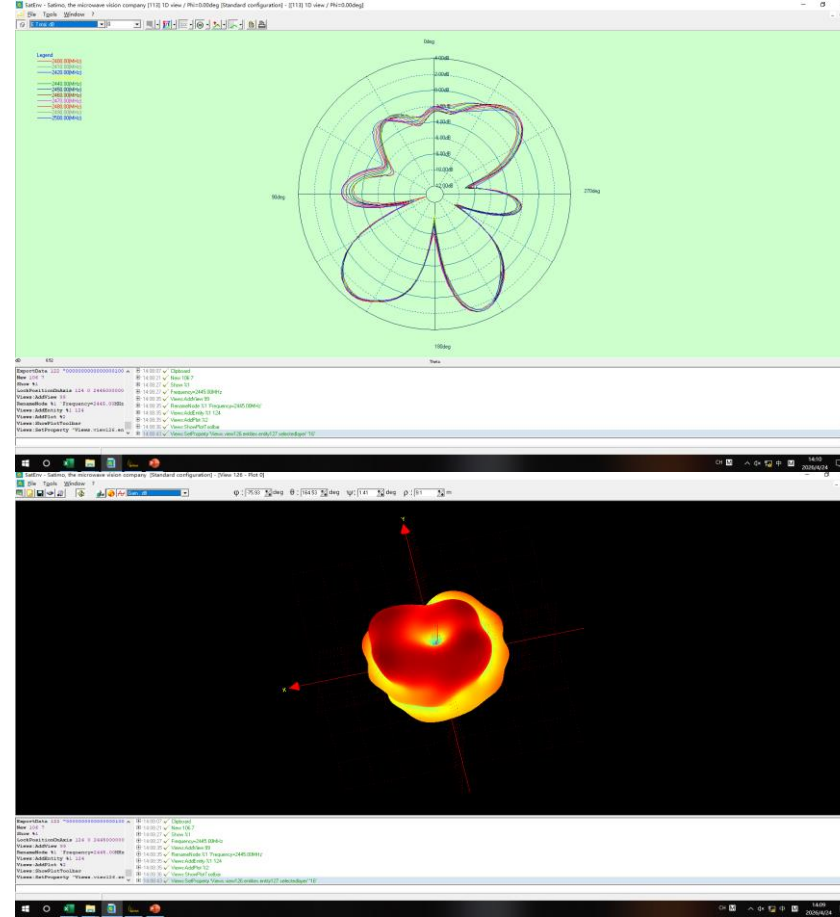
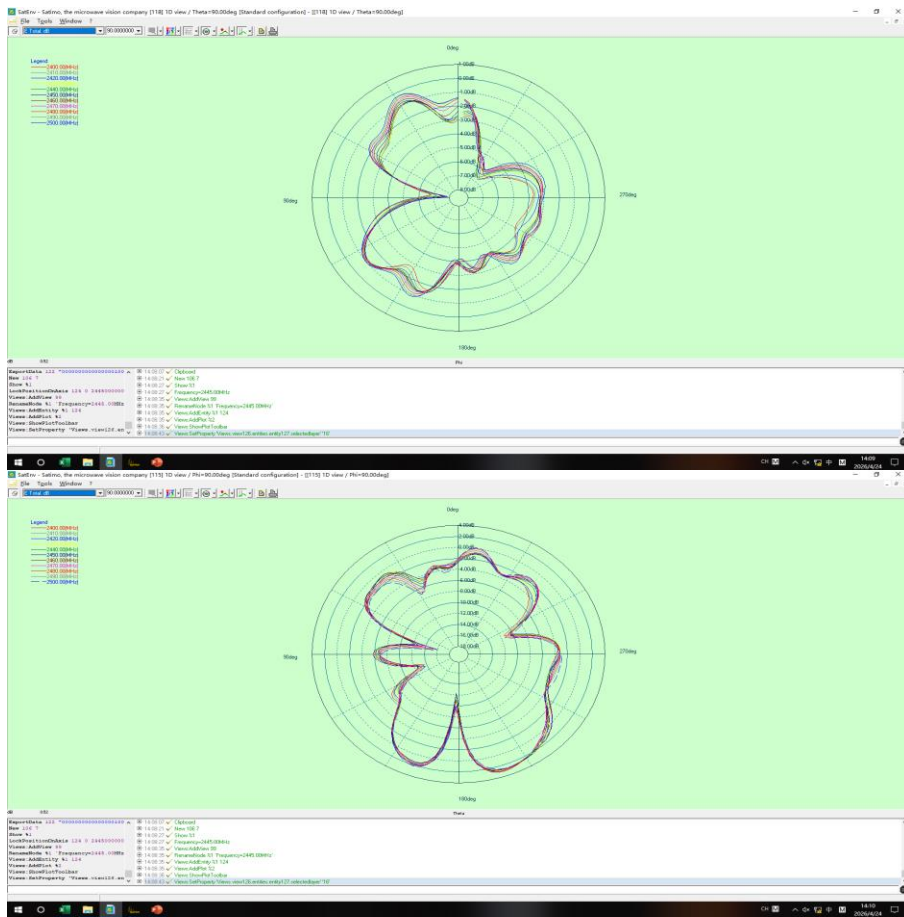


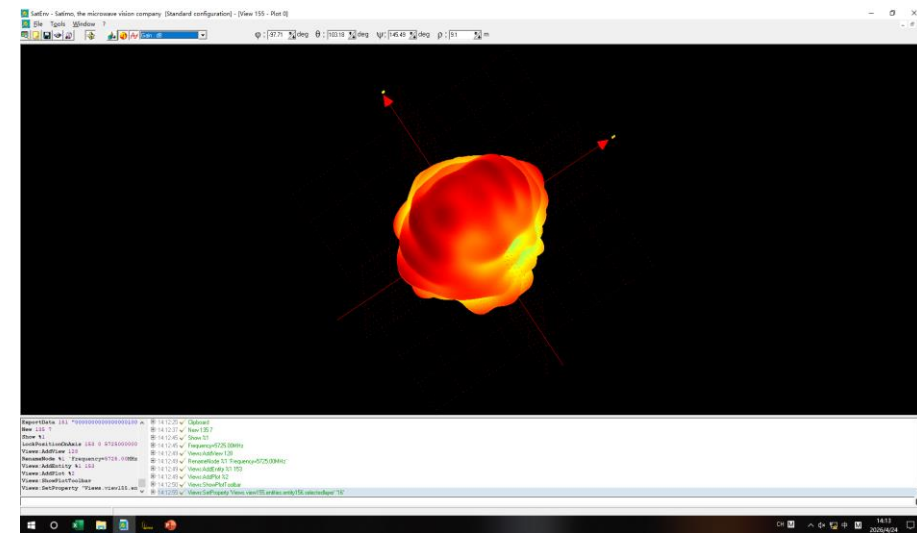
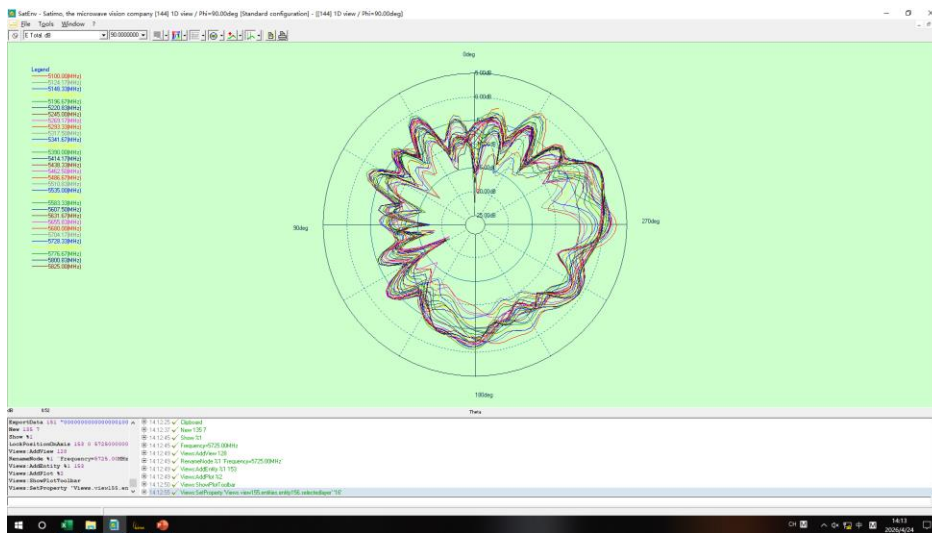


Antenna Report 1575.42MHz



Antenna Report 2400MHz-2500MHz





- 1.The report details any modifications to the antenna matching circuit and any additional environmental processing related to the antenna, which will directly affect antenna performance. Please review it carefully.
- 2.If your company has any latest trial production or updated products (such as software, ESD systems, materials, etc.), please provide them to our company for verification as soon as possible to confirm whether the antenna performance has been affected by any changes.
- 3.If your company requires retesting by a third-party laboratory or customer testing, please first conduct antenna-related tests with our company for confirmation. Variations in motherboard assembly consistency and antenna assembly processes may lead to deviations in antenna parameters.



THANK YOU

For inquiries, please contact us.
Daily service hours: Monday to Saturday, 9:00–18:00.
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