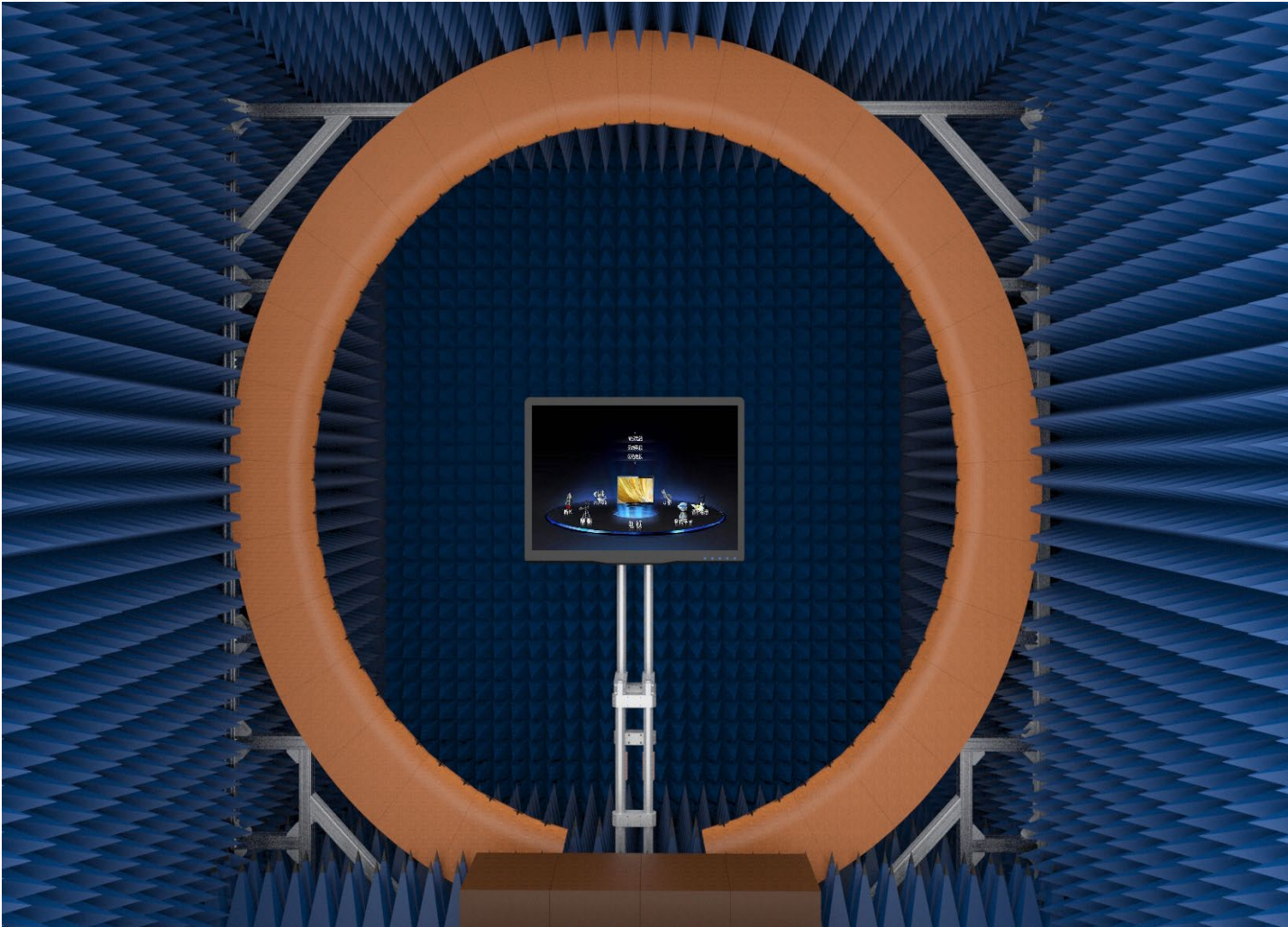


Antenna Test Report

Manufacturer: Anona

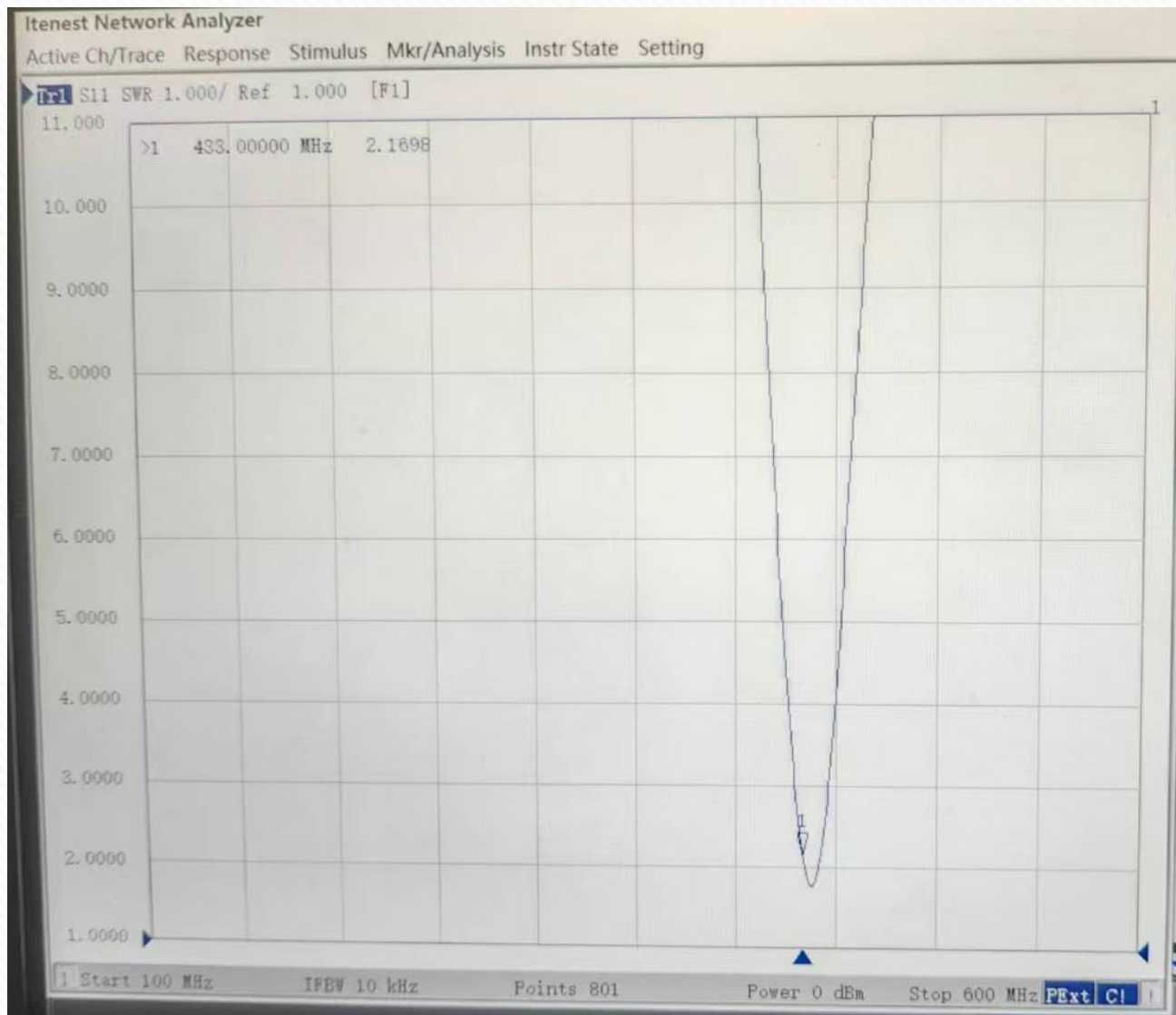
Model: HM5502

1. equipment schedule	5
2. pictures and fixtures	6
3. Passive data of 433 MHz antenna	7
4. 433 MHz Antenna Radiation Pattern	8
5. WiFi/BT Antenna Pattern	9
6. Passive data from WiFi/BT antenna	10



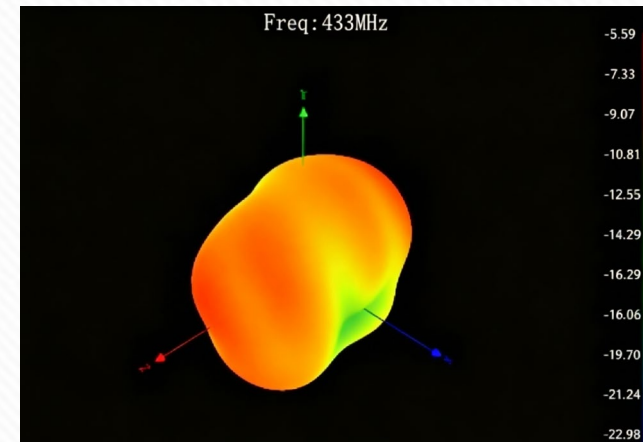
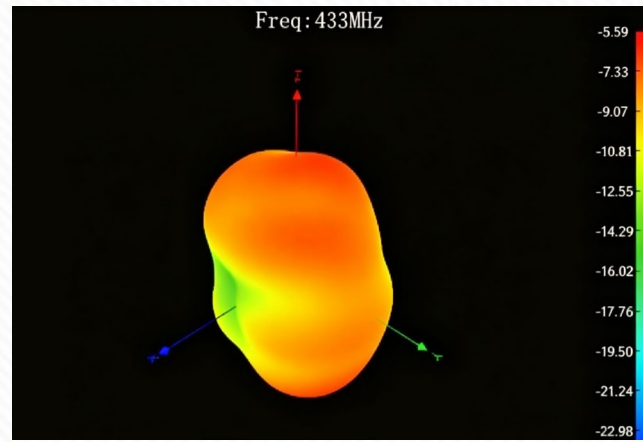
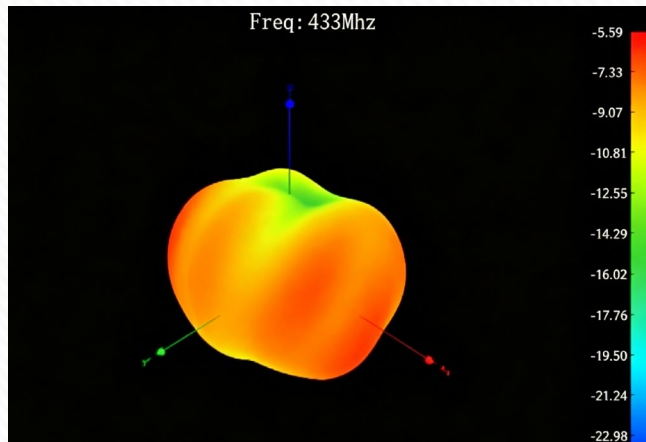
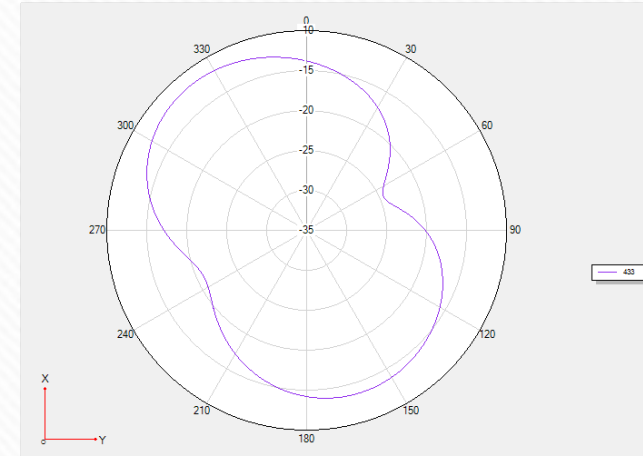
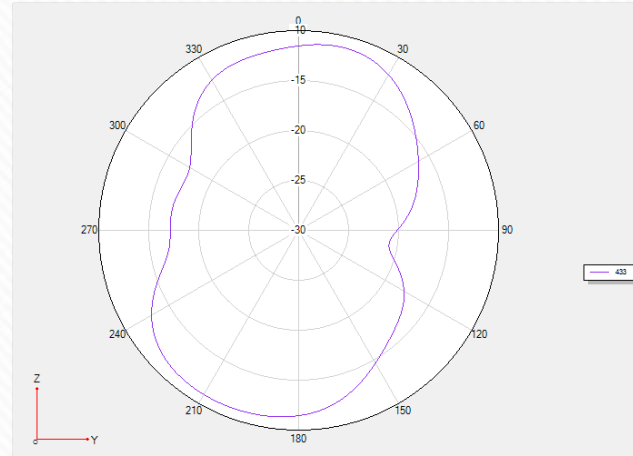
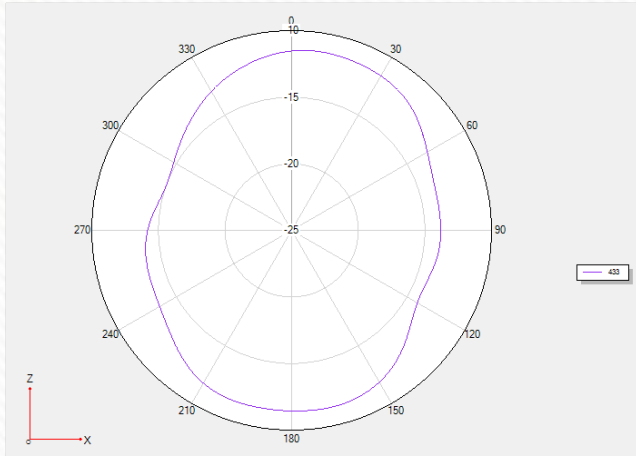
	QTY
Equipment Name	
OTA Laboratory	10
5G Comprehensive Tester (SP9500-CTS)	3
R&S Comprehensive Tester (High-end CMW500)	7
Nihon Avitronics Comprehensive Tester (Dual-channel 8820)	4
NB-IoT Comprehensive Tester (SP8315)	3
Agilent Comprehensive Tester (8960)	9
Agilent Network Analyzer (E5062A)	7
Agilent Network Analyzer (E5071C 8.5GHz)	11
Agilent Network Analyzer (E5071B 8.5GHz)	10
R&S Network Analyzer (ZND)	10
R&S Network Analyzer (ZVB)	3
OTA Head/Ear/ Cochlea/Arm	5
GPS/WIFI Active Test Equipment	5

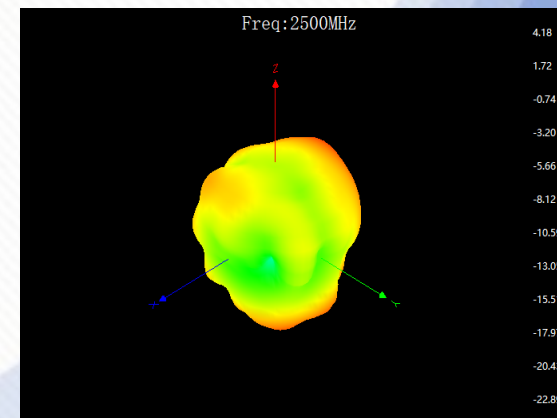
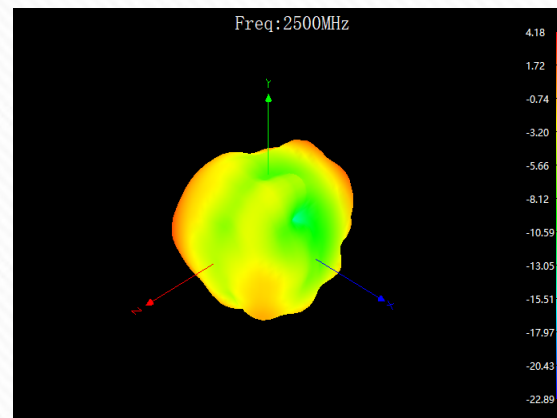
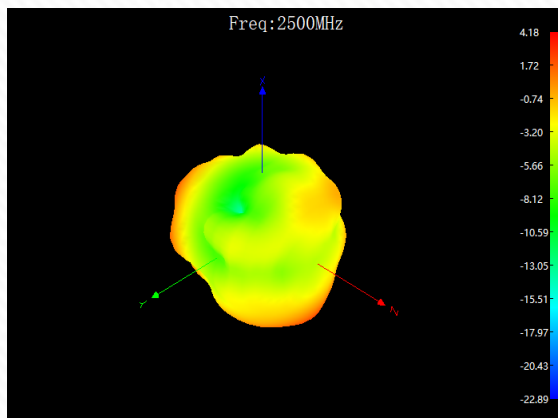
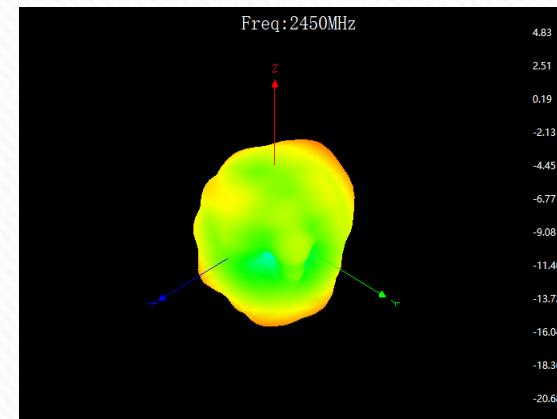
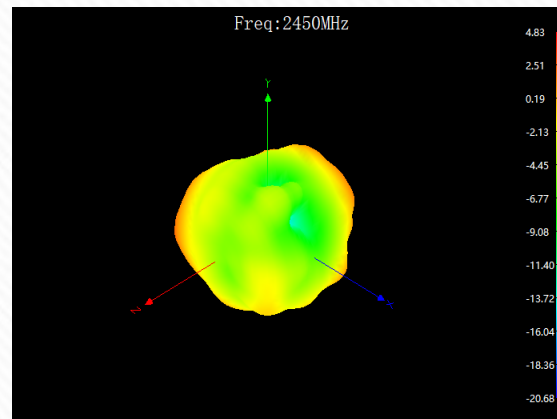
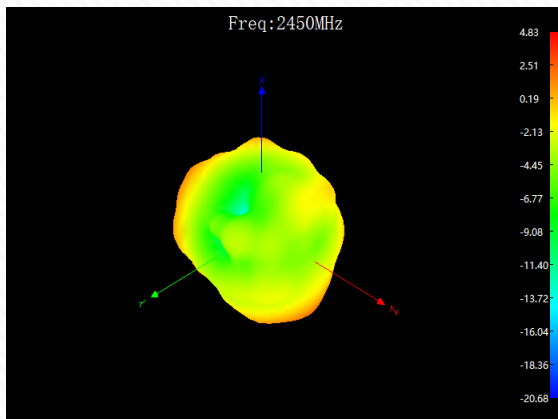
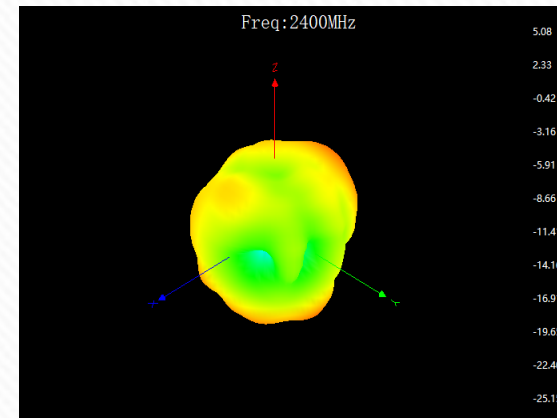
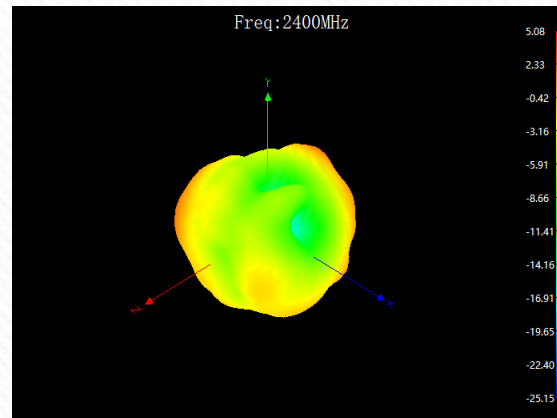
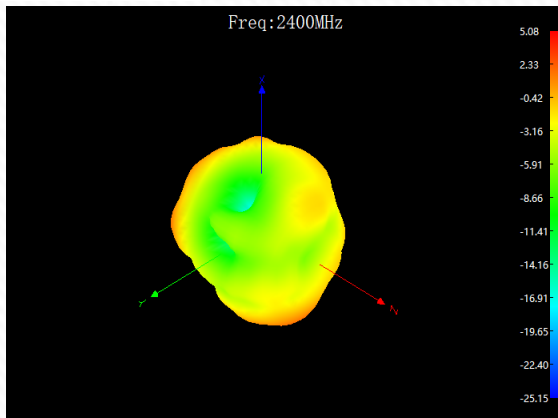
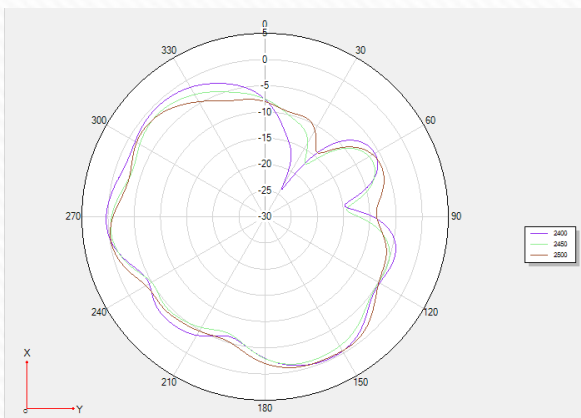
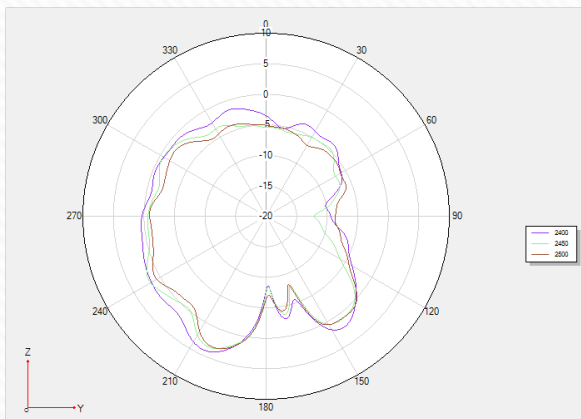
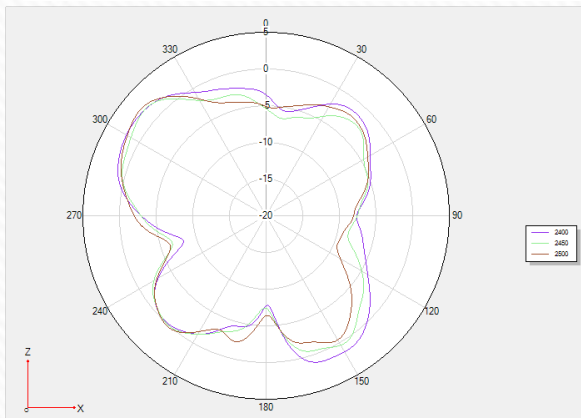
Passive data of 433 MHz antenna



Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
420	-13.77	4.2	-10.1
421	-13.7	4.27	-9.65
422	-13.28	4.7	-8.85
423	-12.72	5.35	-8.07
424	-12.36	5.81	-7.83
425	-12.48	5.65	-8.37
426	-12.42	5.73	-8.54
427	-12.44	5.7	-8.38
428	-12.25	5.96	-8.15
429	-11.78	6.64	-7.77
430	-11.22	7.55	-7.28
431	-10.25	9.44	-6.25
432	-9.88	10.28	-5.66
433	-9.96	10.09	-5.59
434	-10.07	9.84	-5.72
435	-9.87	10.3	-5.51
436	-10.62	8.67	-5.92
437	-10.92	8.09	-5.88
438	-10.83	8.26	-5.51
439	-10.52	8.87	-5.04
440	-10.37	9.18	-5.07
441	-9.83	10.4	-4.99
442	-9.95	10.12	-4.65
443	-10.4	9.12	-4.93
444	-10.74	8.43	-5.38
445	-10.79	8.34	-5.65
446	-10.69	8.53	-5.53
447	-10.56	8.79	-5.34
448	-10.75	8.41	-5.34
449	-11.35	7.33	-5.69
450	-12.12	6.14	-6.29

433 MHz Antenna Radiation Pattern







Frequency/MHz	Efficiency / dB	Efficiency / %	MaxGain/dBi
2400	-2.03	62.66	3.08
2410	-1.95	63.83	2.84
2420	-1.94	63.97	3.49
2430	-1.97	63.53	3.33
2440	-1.94	63.97	2.75
2450	-2.03	62.66	2.83
2460	-2.19	60.39	1.96
2470	-2.07	62.09	1.86
2480	-2.01	62.95	1.85
2490	-1.88	64.86	2.15
2500	-1.92	64.22	2.18

Thank You