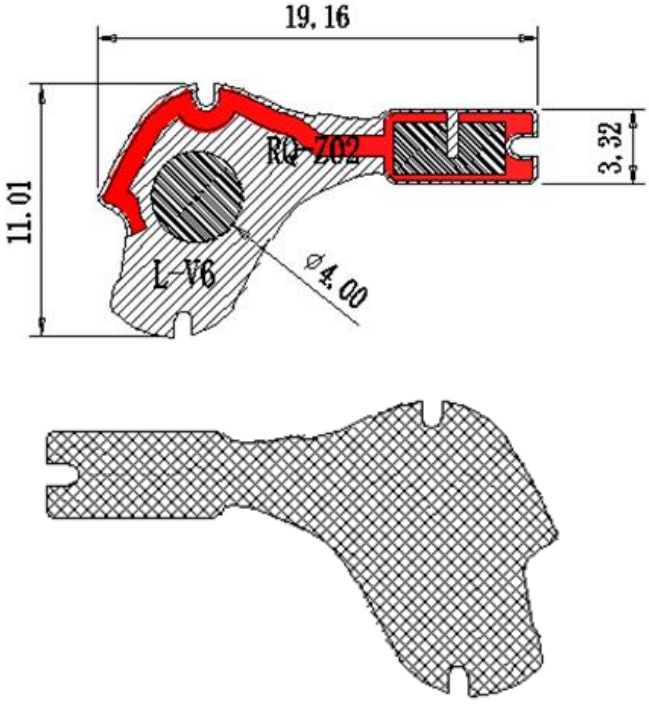
Antenna Type: FPC Antenna

Antenna Size: 1.92cm(L)*1.1cm(W)

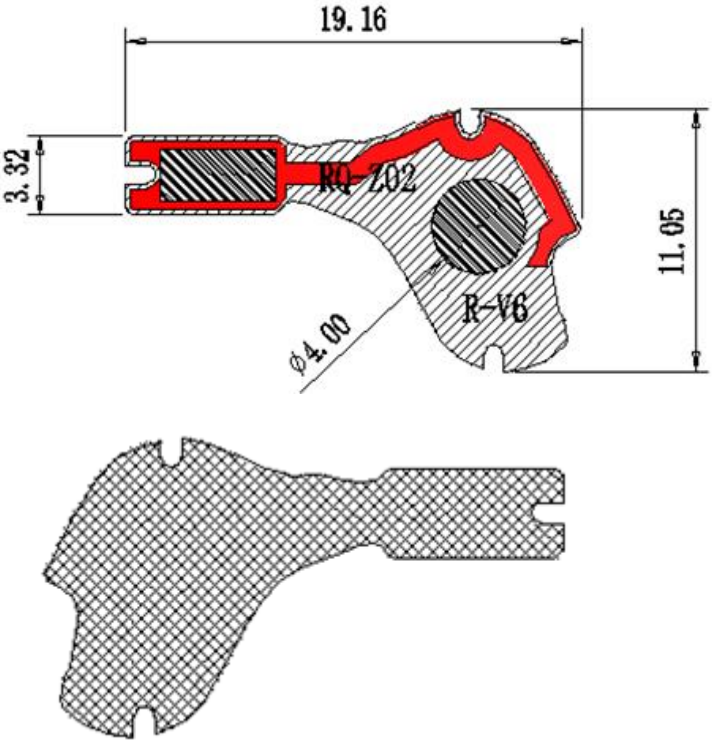
Antenna Manufacture: Shenzhen Strongpower Communication Co.,Ltd.

Antenna Model Number: RQ-Z02

Left



Right



Red is the copper part

Blank for the substrate

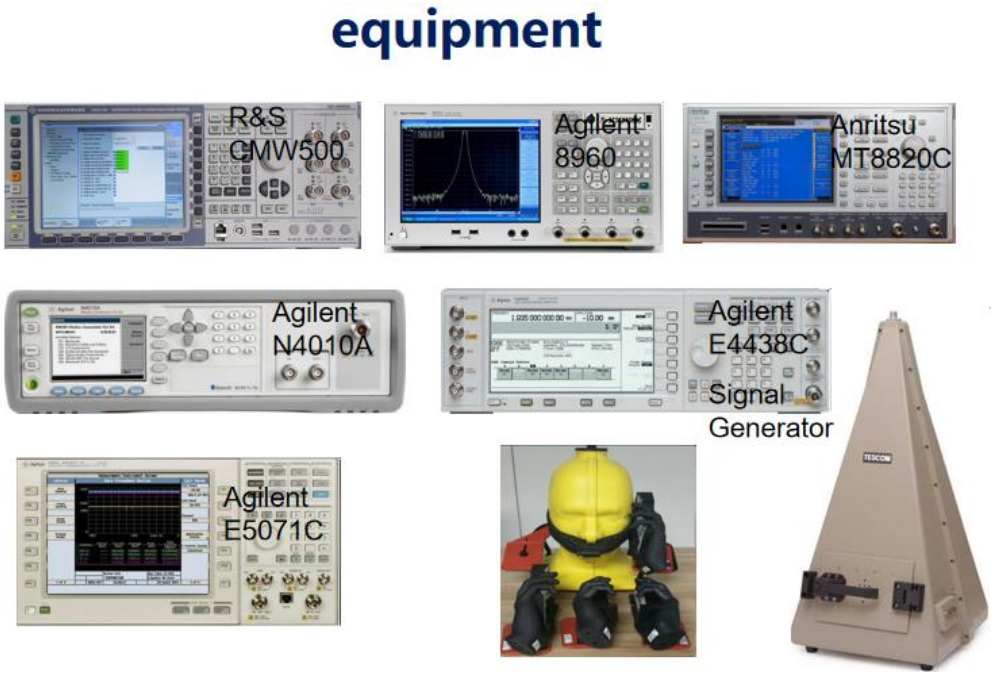
The yellow part is the gold-plated area

Blue is the adhesive area

1. Testing Environment

a. Test System

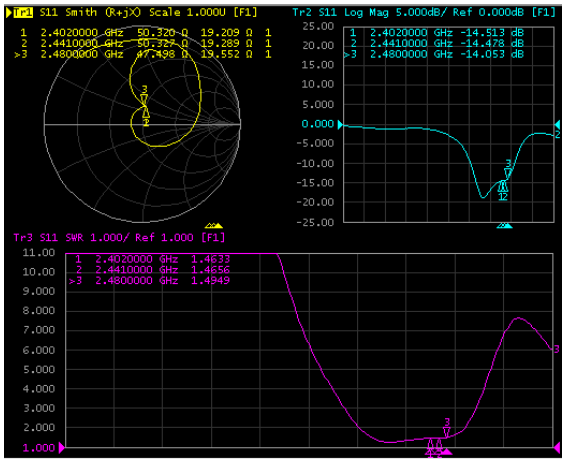
b. Test Instrument



2. Passive test data

a. S parameter

Left



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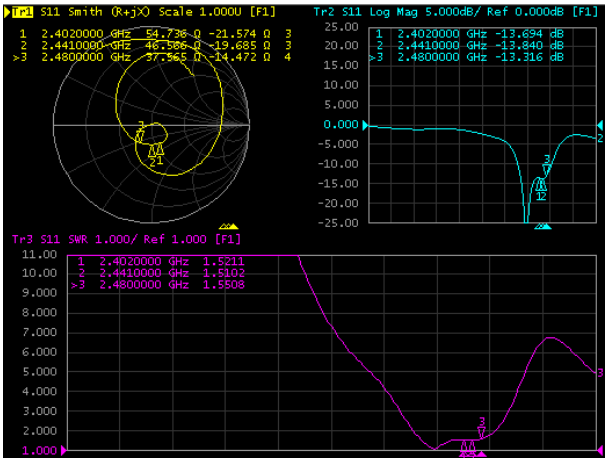


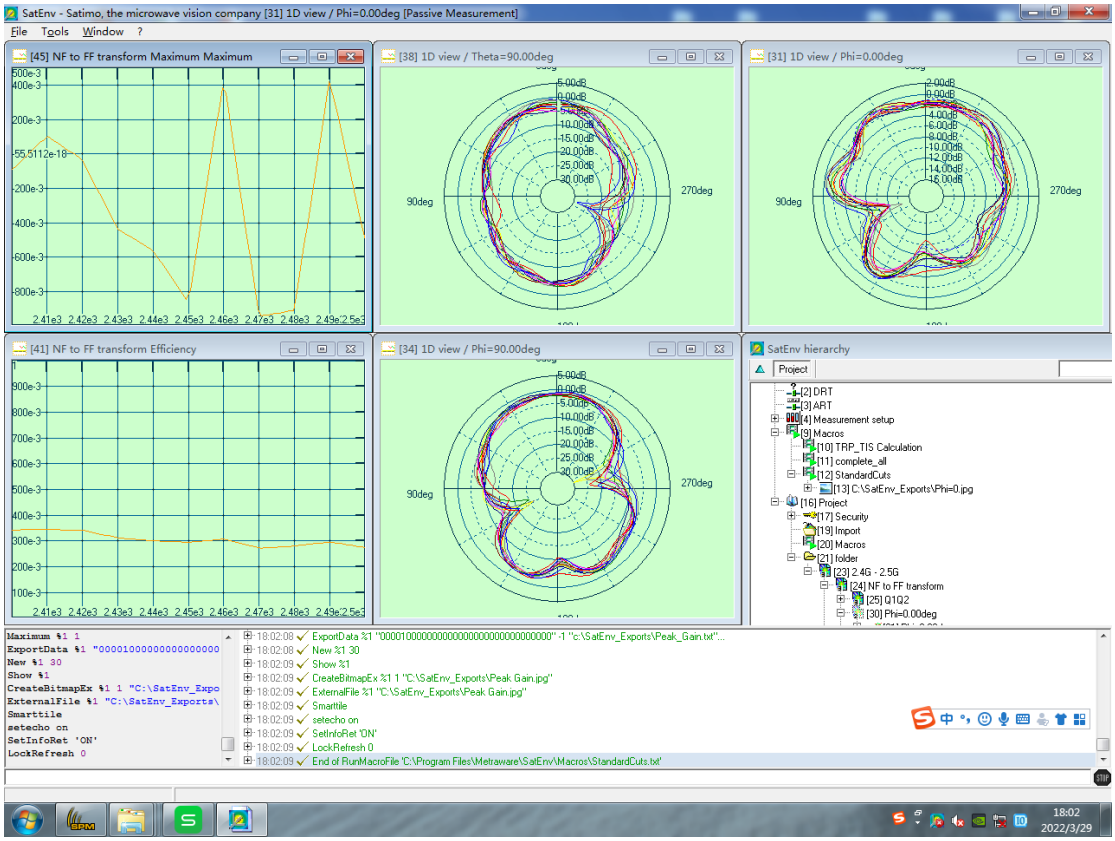
b. Passive Efficiency & Gain

Left			
frequency (MHz)	efficiency (%)	efficiency (dB)	Gain (dB)
2400	39.21	-4.07	1.22
2410	36.37	-4.39	1.43
2420	35.67	-4.48	0.17
2430	35.60	-4.49	0.37
2440	37.38	-4.27	1.78
2450	38.57	-4.14	0.99
2460	36.89	-4.33	0.98
2470	35.57	-4.49	0.30
2480	37.02	-4.32	0.39
AVG	36.9	-4.33	0.85

Right			
frequency (MHz)	efficiency (%)	efficiency (dB)	Gain (dB)
2400	31.11	-5.07	-0.76
2410	30.39	-5.17	-0.92
2420	31.52	-5.01	-0.65
2430	28.33	-5.48	-0.99
2440	26.78	-5.72	-1.44
2450	28.80	-5.41	-1.10
2460	27.88	-5.55	-0.69
2470	27.21	-5.65	-1.06
2480	28.83	-5.40	-0.50
AVG	29.0	-5.39	-0.90

c. Passive pattern (free space)

Left



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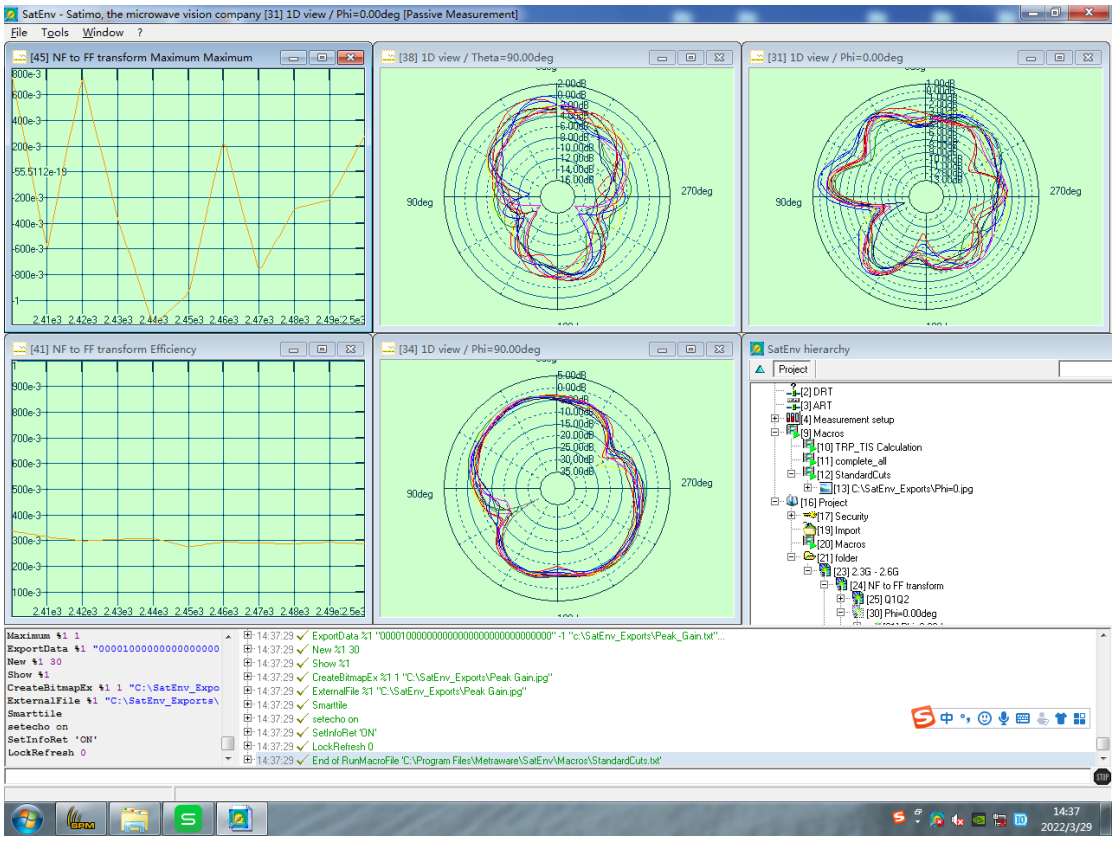


3. Active test data

a. TRP&TIS

Left- (free space)

Channel CH	TRP (dBm)	TIS (dBm
0	5. 28	-90.51
39	4.92	-90.11
78	5.05	-90.54

Right- **(free space)**

Channel CH	TRP (dBm)	TIS (dBm
0	4.06	-91.19
39	4.27	-91.29
78	4. 34	-91.21

Left- The head ear

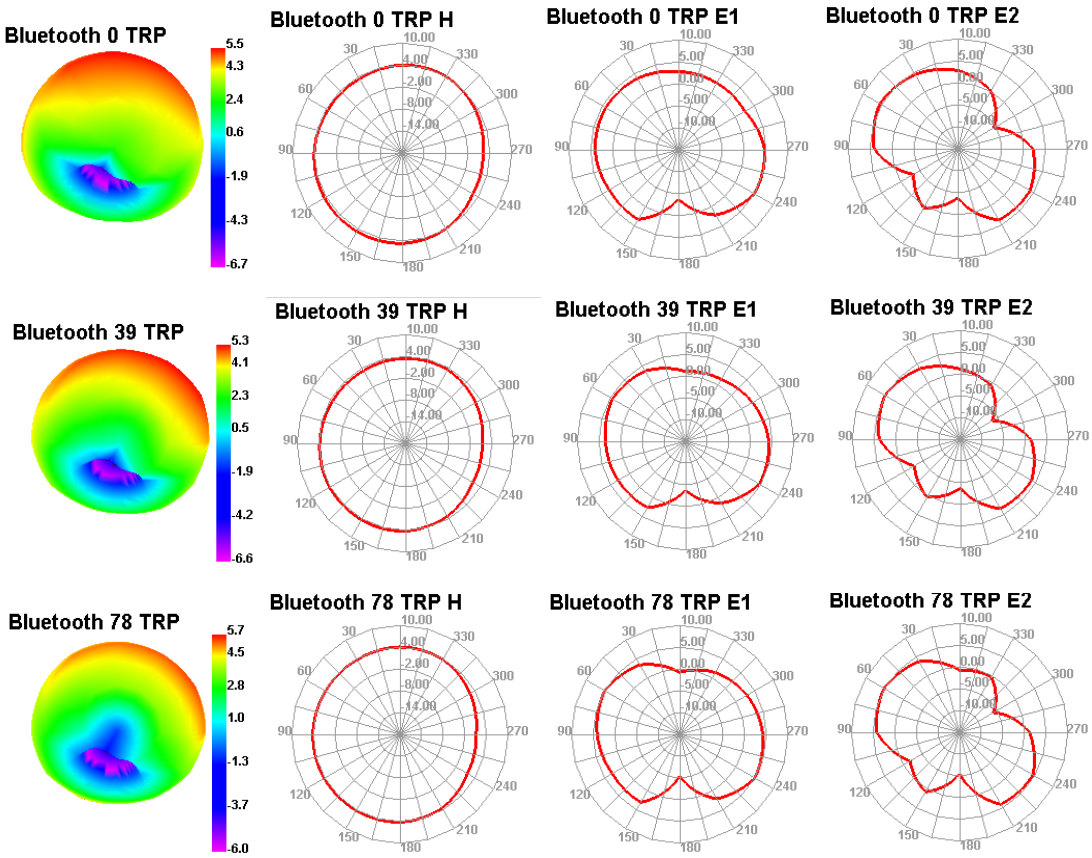
Channel CH	TRP (dBm)	TIS (dBm
0	-2.38	-84.72
39	-2.35	-84.91
78	-2.01	-85.53

Right- The head ear

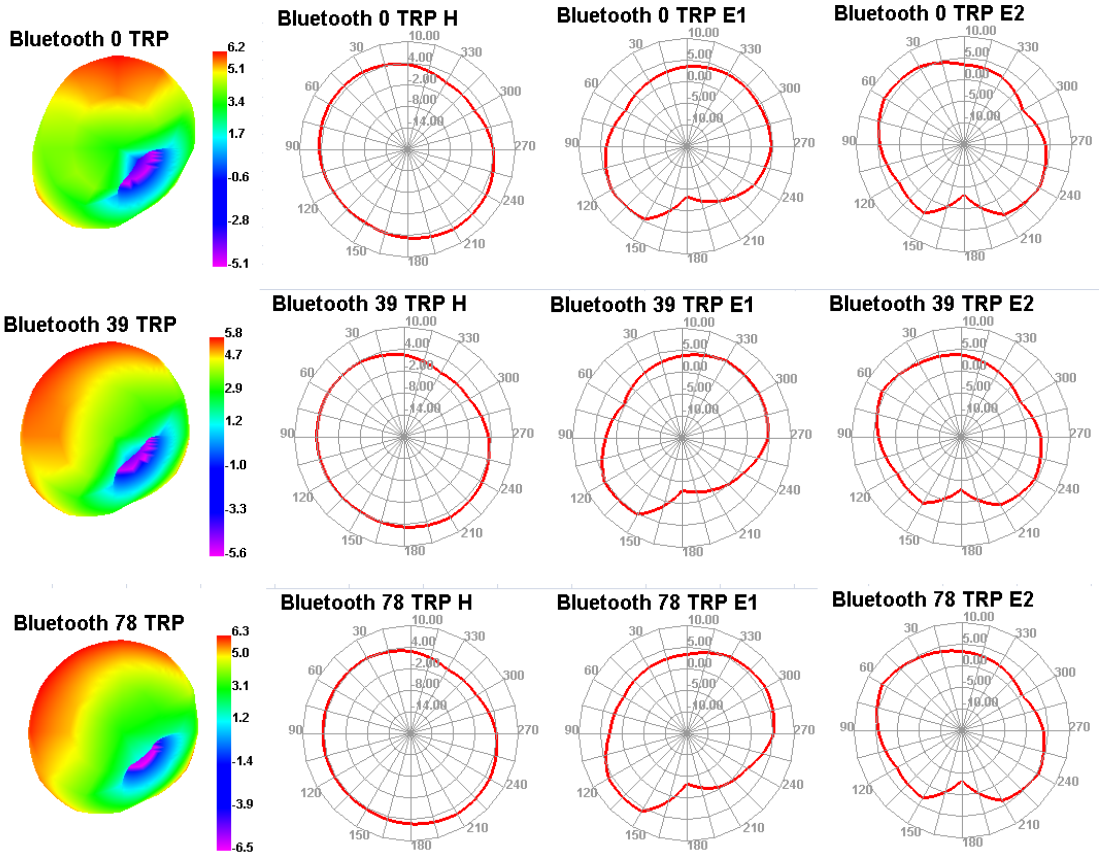
Channel CH	TRP (dBm)	TIS (dBm
0	-2.45	-84.57
39	-2.45	-84.52
78	-2.31	-84.15

b. Directivity Diagram

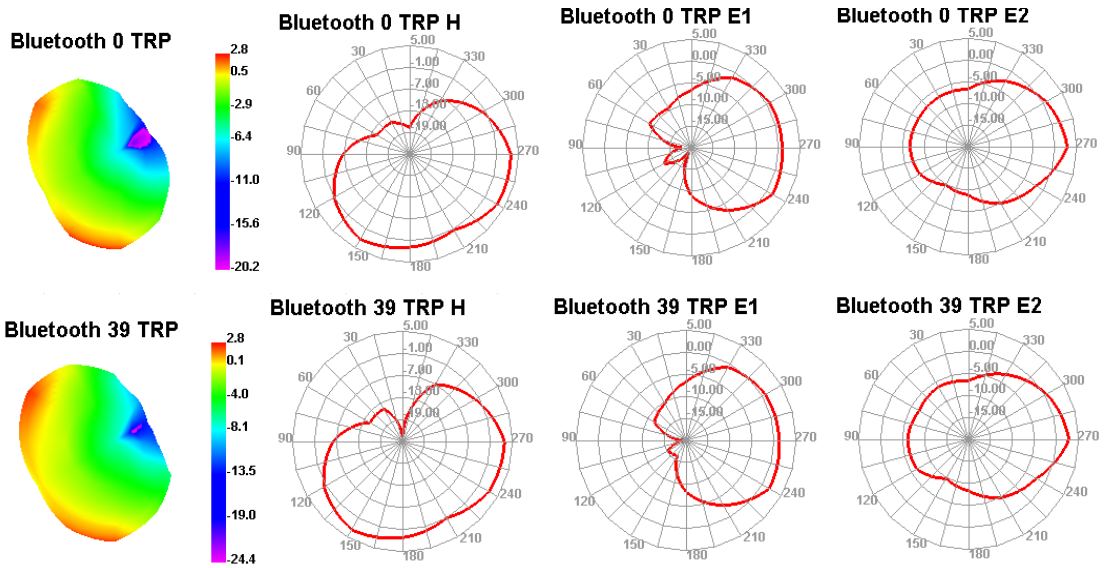
Left- (free space)

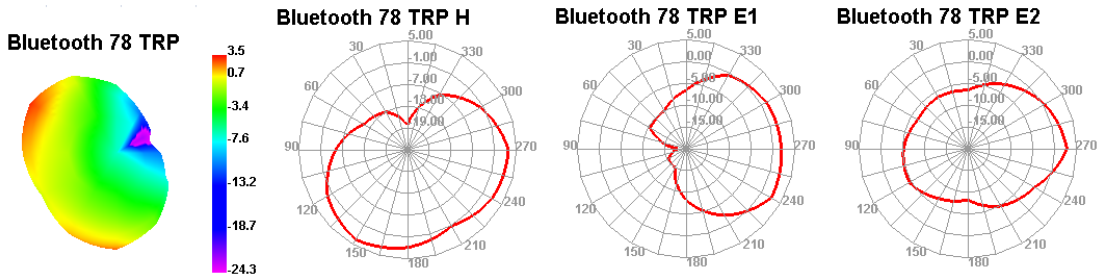
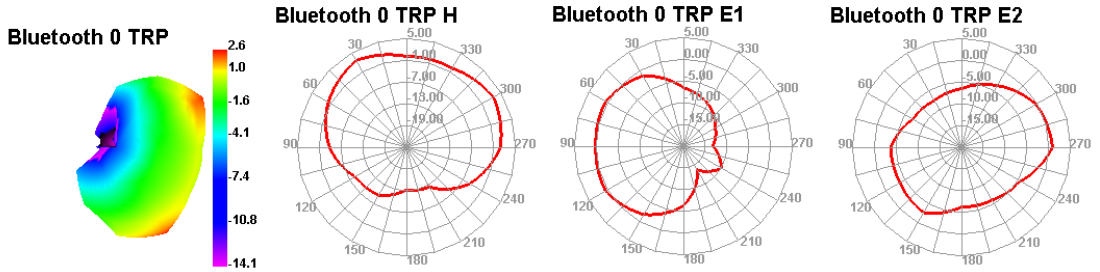
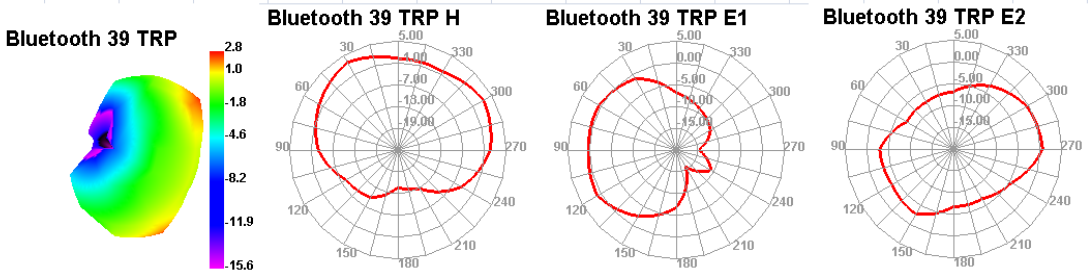
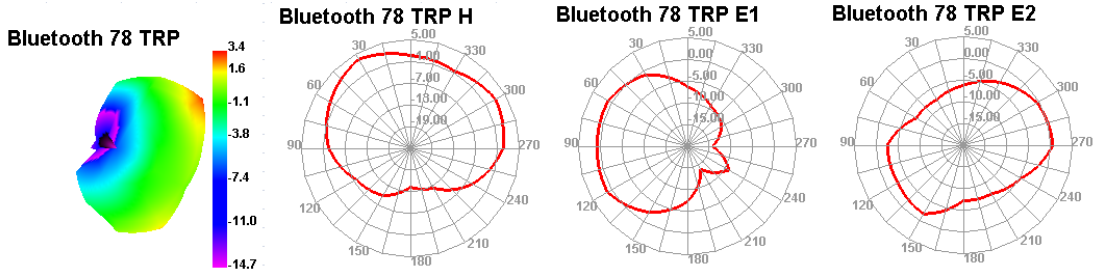


Right- (free space)



Left- The head ear





Right- The head ear