

Applicant	ShangHai Antenna R&D Center						
Address	No.402 Guilin Road,Xuhui District Shanghai, 200233, P. R. China						
Test lab	Testing center						
Address	No.268 Dongfang Road High-Tech Industrial Development District, Weifang Shandong, China						
Lab location	No.268 Dongfang Road High-Tech Industrial Development District, Weifang Shandong, China						
Test sample information							
Sample name	Spotlight Cam Pro						
Model No.	5E62E9						
Sample status	white						
Sample receipt date	2022/5/25						
Sample test date	2022/5/26						
Test result	Antenna passive test - gain Pass						
Tested by	phi. xu	20220601					
Review by	Sergii	20220606					
Approved by	Ihor	20220606					
1. Test sample information							
sample NO.:	01						
Antenna Type:							
	WLAN		Stamping				
	Bluetooth		PIFA				
	LoRa		PIFA				
	Radar		Patch				
2. Test standard							
ANSI/IEEE Std 149-2021/GB/T 9410-2008							
3. Test requirements							
Sampling Angle: 15 degrees							
Perform according to test standards							
4. Testing process							
Test items			Test equipment	equipment model no	last Calibration Date		
antenna passive test——Peak Gain			network	KEYSIGHT	2022/5/10		

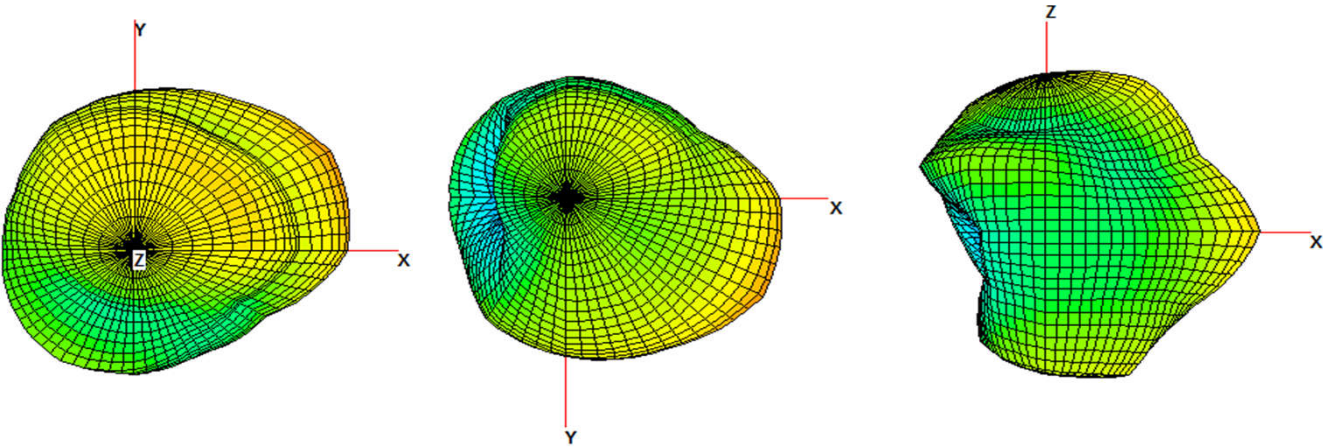
Freq(Mhz)	Antenna	Chamber	Gain (dBi)	Comment
856	Lora	ETS chamber	-0.09	
864	Lora	ETS chamber	0.37	
872	Lora	ETS chamber	0.66	
880	Lora	ETS chamber	0.86	
888	Lora	ETS chamber	0.94	
896	Lora	ETS chamber	0.95	
904	Lora	ETS chamber	0.87	
912	Lora	ETS chamber	0.83	
920	Lora	ETS chamber	0.69	
928	Lora	ETS chamber	0.55	
936	Lora	ETS chamber	0.43	
2400	BLE	ETS chamber	2.26	
2408	BLE	ETS chamber	2.47	
2416	BLE	ETS chamber	2.56	
2424	BLE	ETS chamber	2.67	
2432	BLE	ETS chamber	2.76	
2440	BLE	ETS chamber	2.82	
2448	BLE	ETS chamber	2.88	
2456	BLE	ETS chamber	2.89	
2464	BLE	ETS chamber	2.84	
2472	BLE	ETS chamber	2.81	
2480	BLE	ETS chamber	2.73	
2488	BLE	ETS chamber	2.57	
2496	BLE	ETS chamber	2.39	
2504	BLE	ETS chamber	2.08	
2400	WIFI	ETS chamber	0.62	
2408	WIFI	ETS chamber	0.69	
2416	WIFI	ETS chamber	0.69	
2424	WIFI	ETS chamber	0.79	
2432	WIFI	ETS chamber	0.88	
2440	WIFI	ETS chamber	0.96	
2448	WIFI	ETS chamber	1.04	
2456	WIFI	ETS chamber	1.15	
2464	WIFI	ETS chamber	1.19	
2472	WIFI	ETS chamber	1.31	
2480	WIFI	ETS chamber	1.36	
2488	WIFI	ETS chamber	1.34	
2496	WIFI	ETS chamber	1.39	
2504	WIFI	ETS chamber	1.36	
5100	WIFI	ETS chamber	4.22	
5116	WIFI	ETS chamber	4.44	
5132	WIFI	ETS chamber	4.44	
5148	WIFI	ETS chamber	4.47	
5164	WIFI	ETS chamber	4.52	
5180	WIFI	ETS chamber	4.48	
5196	WIFI	ETS chamber	4.50	
5212	WIFI	ETS chamber	4.43	
5228	WIFI	ETS chamber	4.33	
5244	WIFI	ETS chamber	4.43	
5260	WIFI	ETS chamber	4.35	
5276	WIFI	ETS chamber	4.29	
5292	WIFI	ETS chamber	4.26	
5308	WIFI	ETS chamber	4.15	

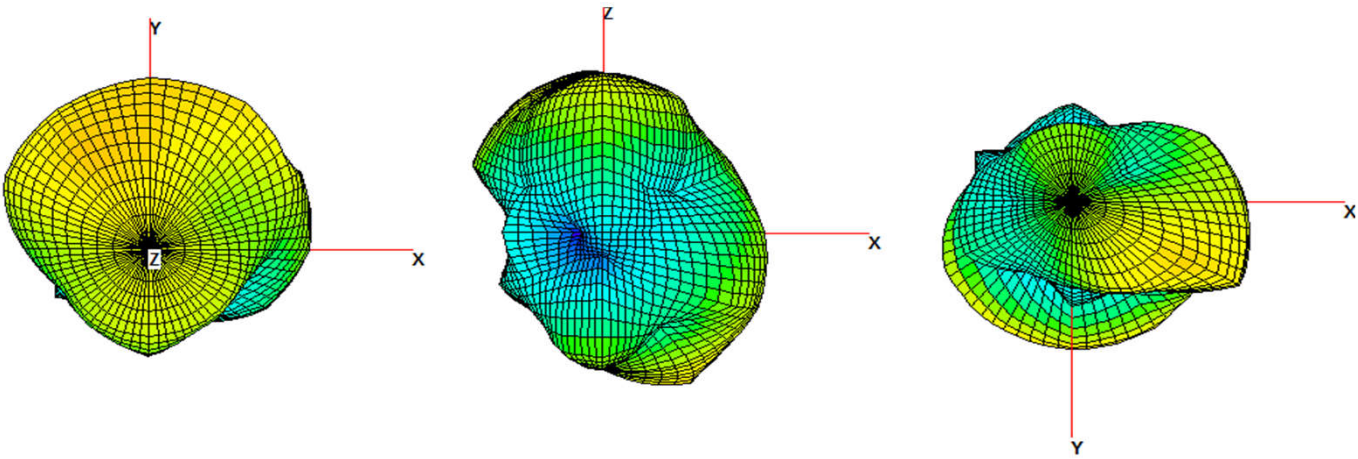
5324	WIFI	ETS chamber	4.14	
5340	WIFI	ETS chamber	4.20	
5356	WIFI	ETS chamber	4.00	
5372	WIFI	ETS chamber	3.91	
5388	WIFI	ETS chamber	3.89	
5404	WIFI	ETS chamber	3.83	
5420	WIFI	ETS chamber	3.75	
5436	WIFI	ETS chamber	3.67	
5452	WIFI	ETS chamber	3.73	
5468	WIFI	ETS chamber	3.80	
5484	WIFI	ETS chamber	3.74	
5500	WIFI	ETS chamber	3.79	
5516	WIFI	ETS chamber	3.77	
5532	WIFI	ETS chamber	4.02	
5548	WIFI	ETS chamber	4.00	
5564	WIFI	ETS chamber	4.14	
5580	WIFI	ETS chamber	4.21	
5596	WIFI	ETS chamber	4.06	
5612	WIFI	ETS chamber	4.08	
5628	WIFI	ETS chamber	3.95	
5644	WIFI	ETS chamber	3.97	
5660	WIFI	ETS chamber	3.86	
5676	WIFI	ETS chamber	3.77	
5692	WIFI	ETS chamber	3.67	
5708	WIFI	ETS chamber	3.64	
5724	WIFI	ETS chamber	3.60	
5740	WIFI	ETS chamber	3.76	
5756	WIFI	ETS chamber	3.90	
5772	WIFI	ETS chamber	4.07	
5788	WIFI	ETS chamber	4.36	
5804	WIFI	ETS chamber	4.38	
5820	WIFI	ETS chamber	4.35	
5836	WIFI	ETS chamber	4.51	
5852	WIFI	ETS chamber	4.49	
5868	WIFI	ETS chamber	4.52	
5884	WIFI	ETS chamber	4.46	
5900	WIFI	ETS chamber	4.31	

24G
Radar

24.05GHz ~24.25GHz
2.0dBi

- 1.radar antenna manufacturer: Socionext
- 2.radar antenna report issue date:7/22/2022
- 3.radar antenna type:patch antenna
- 4.radar antenna pattern: attached pics





Antenna pattern (Reference)

