

SPECIFICATION FOR APPROVAL

日期  
**DATE:** 2022.09.07

版本  
**REV.:** V1.0

客 户  
**CUSTOMER:** Asiatelco Technologies Co.

客 户 料 号  
**CUSTOMER P/N:** TX0637T001

品 名  
**PART NAME:** WB550-NA-00 Antenna

供 方 料 号  
**SUPPLIER P/N:** N12-7218-R0A

送样日期 **Date:** Q'TY: Pcs

<b>CUSTOMER APPROVED BY</b>		
工程研发部	生产采购部	承认
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

<b>SUPPLIER SIGNATURE</b>		
研发部	工程部	批准
ENGINEER R&D DEPT	ENGINEER R&D DEPT	APPROVAL

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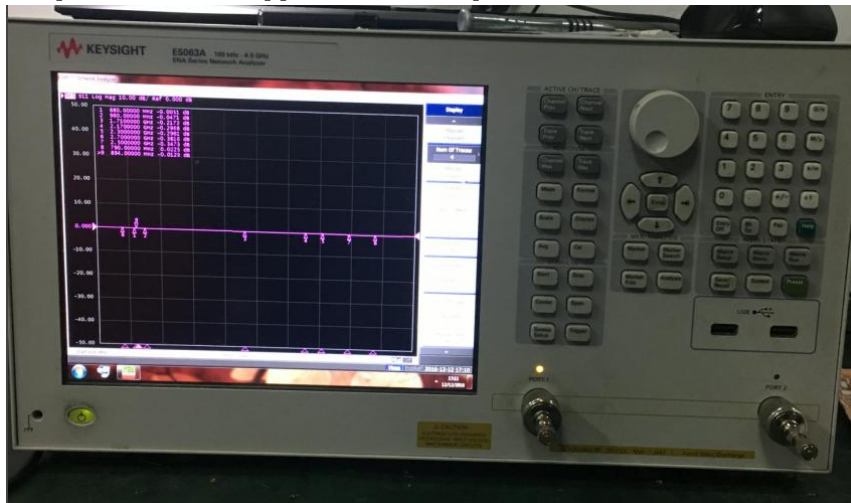
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## 1. RF Fixture Experiment

### 1.1 Test Setup

#### 1.1.1 VNA Test Setup

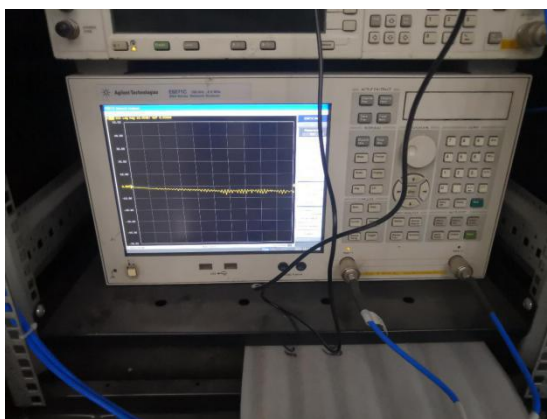
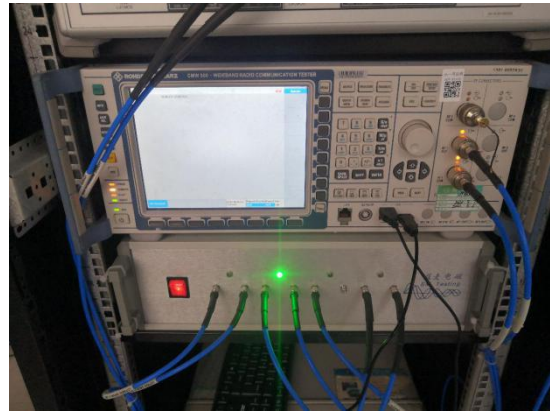
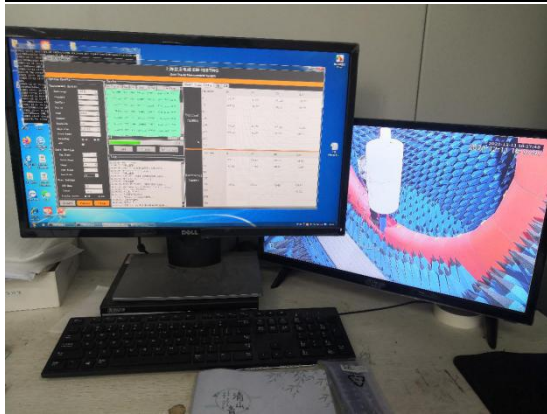
VSWR and Return Loss measurements (S11) were performed using an Keysight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



#### 1.1.2 Anechoic Chamber Test Setup

When we test Gain and Efficiency of the antenna, we will use the ETS 3D chamber. The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture



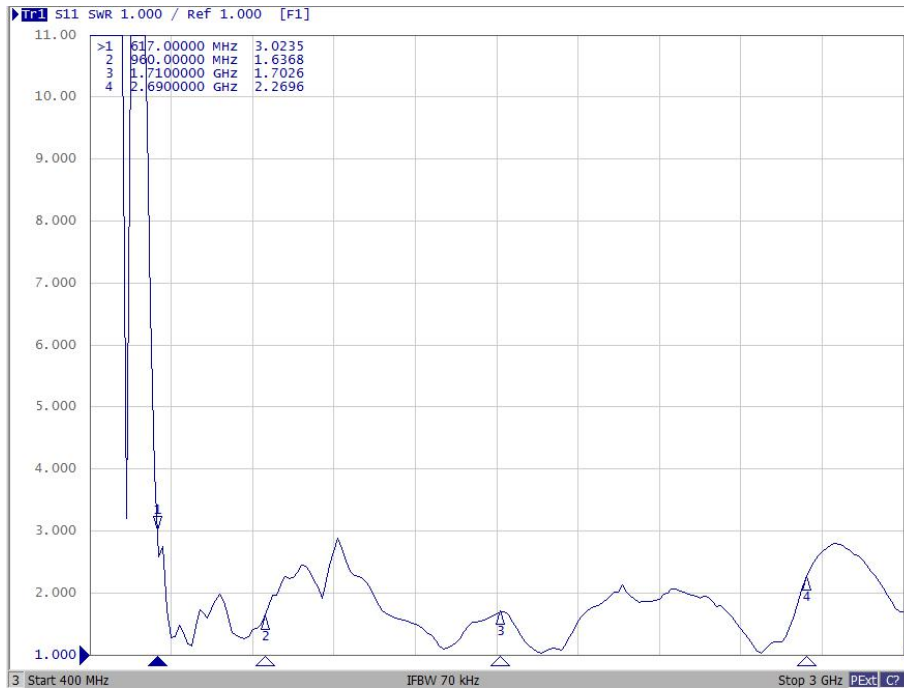


## 1.2 UE configuration

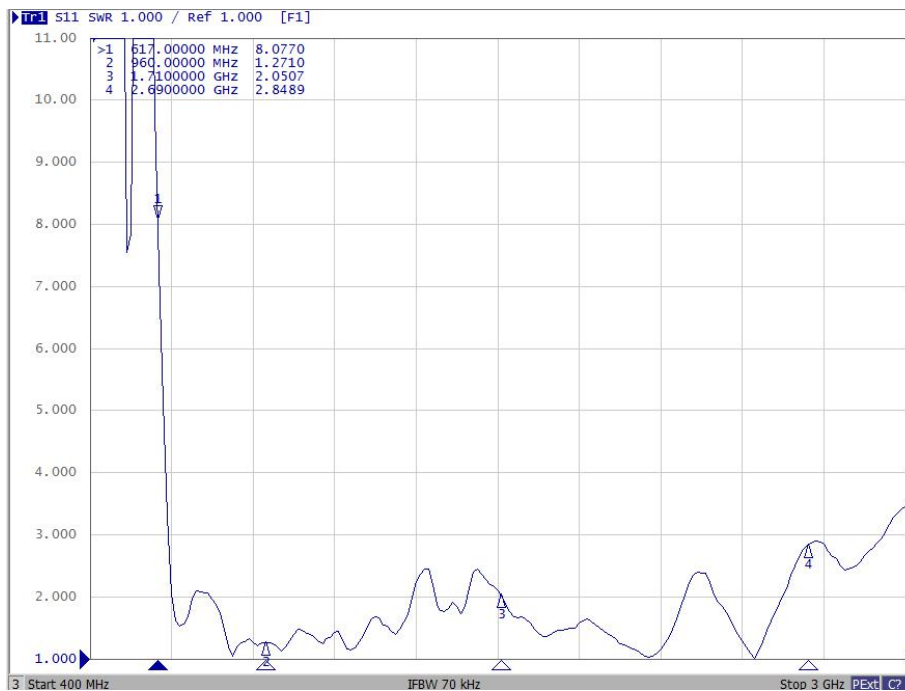
Please refer to Appendix WB550 UE configuration

## 2.1 Passive Test Result(S parameters)

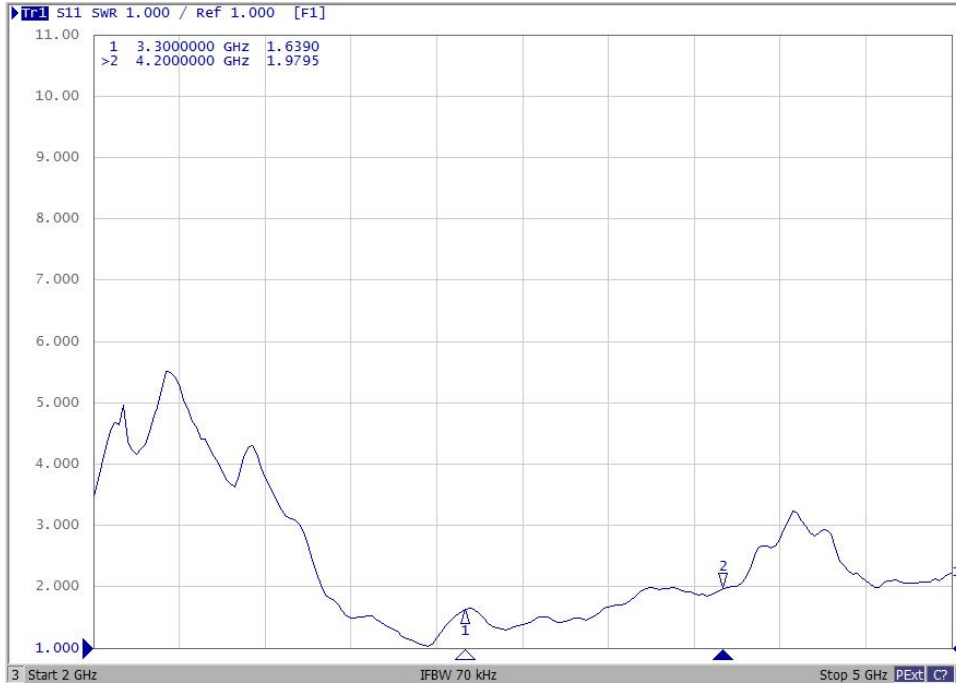
Antenna 0 617~960MHz 1710~2690MHz VSWR



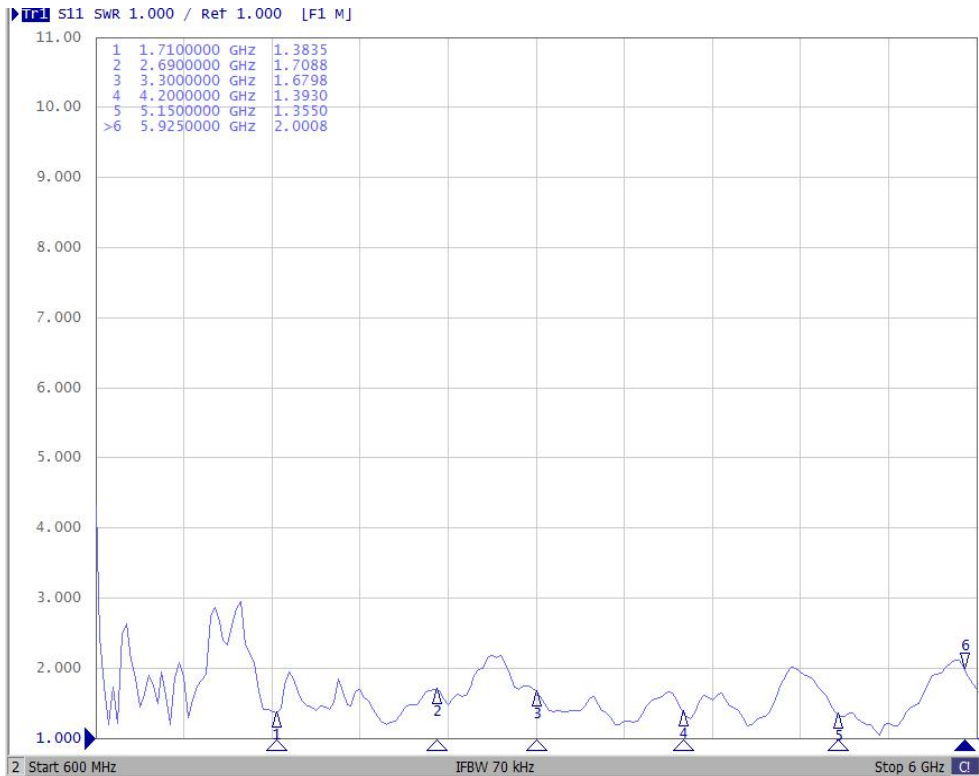
Antenna 2 617~960MHz 1710~2690MHz VSWR



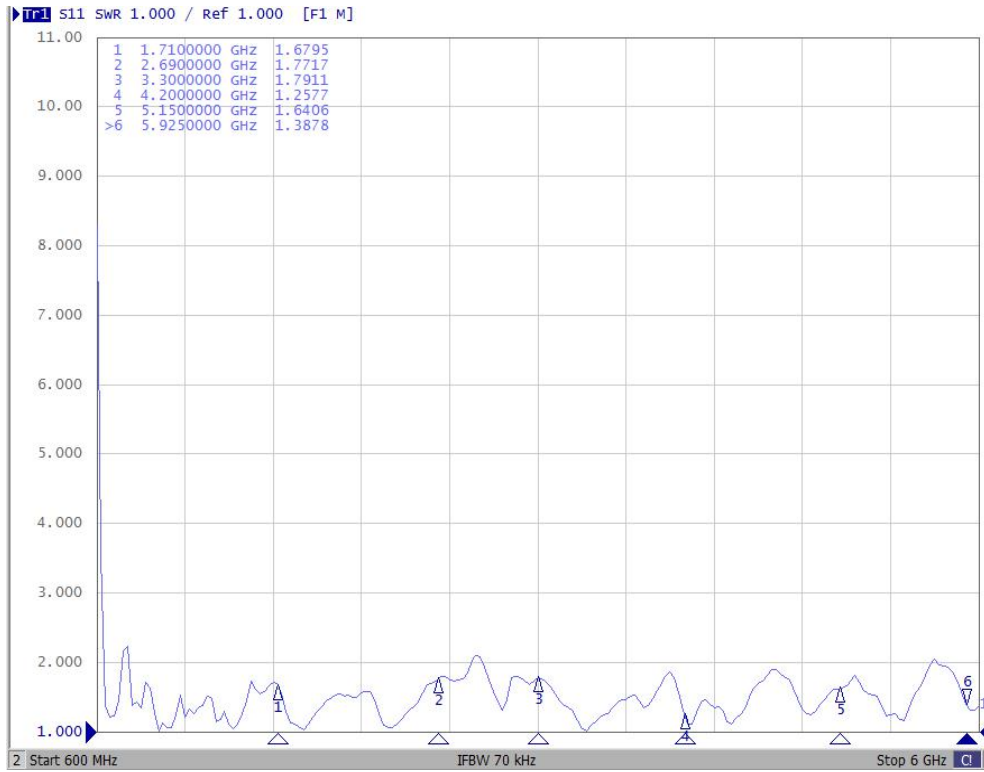
Antenna 4 3300~4200MHz VSWR



Antenna 1 1930~2690MHz 3300~4200MHz 5150~5925MHz VSWR



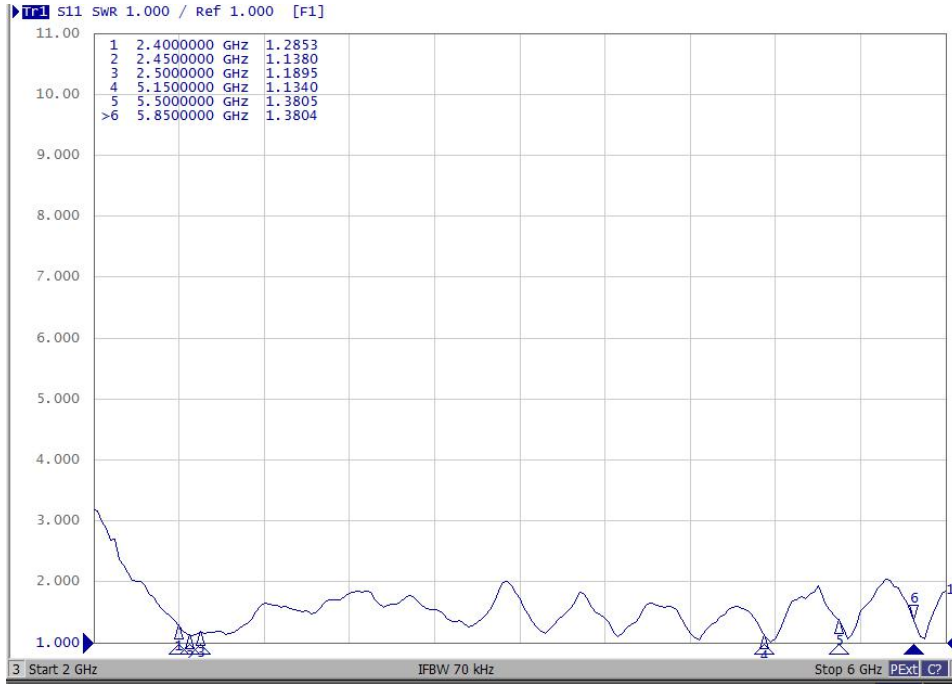
Antenna 3 1710~2690MHz 3300~4200MHz 5150~5925MHz VSWR



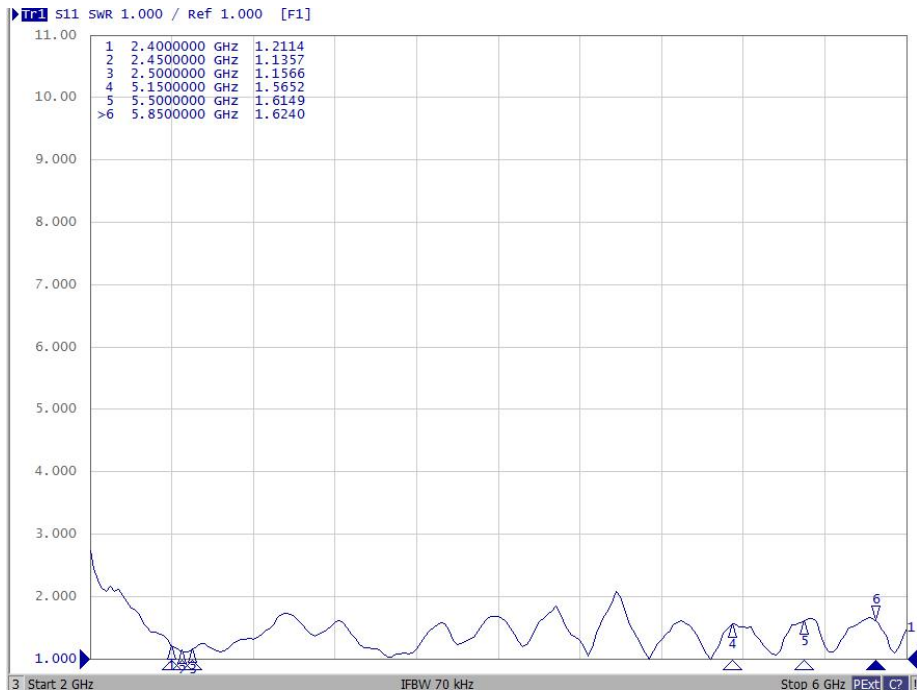
Antenna 5 3300~4200MHz VSWR



WIFI 0 2400~2500MHz 5150~5850MHz VSWR



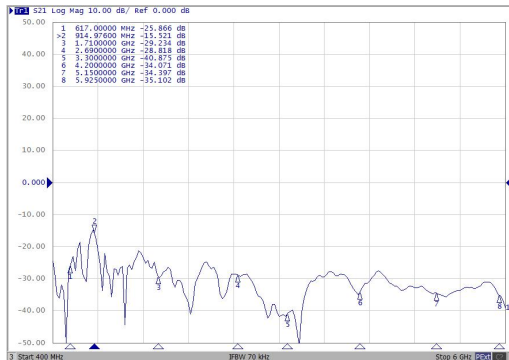
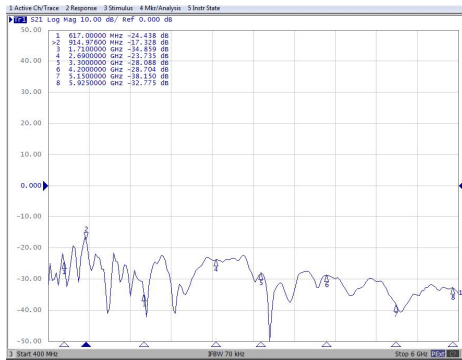
WIFI 1 2400~2500MHz 5150~5850MHz VSWR





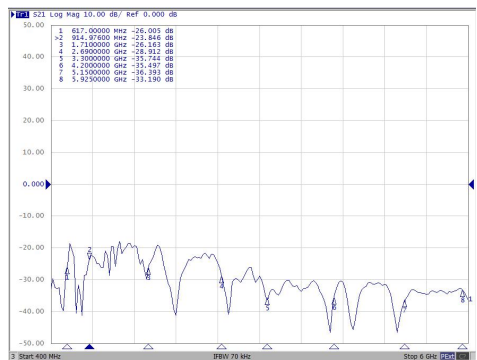
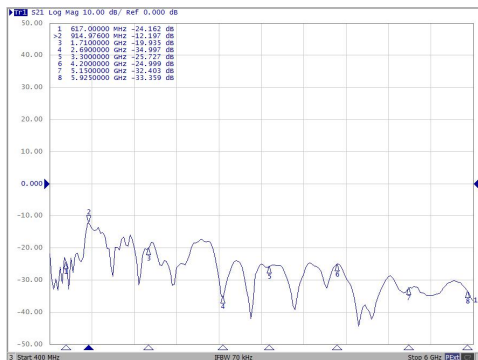
617~960MHz 1710~2690MHz Antenna 0 &  
617~960MHz 1710~2690MHz Antenna 2  
S21

617~960MHz 1710~2690MHz Antenna 0 &  
3300~4200MHz Antenna 4 S21



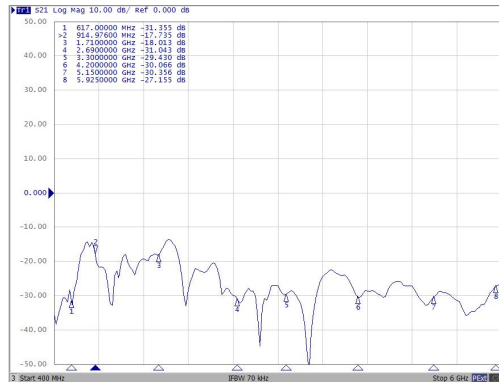
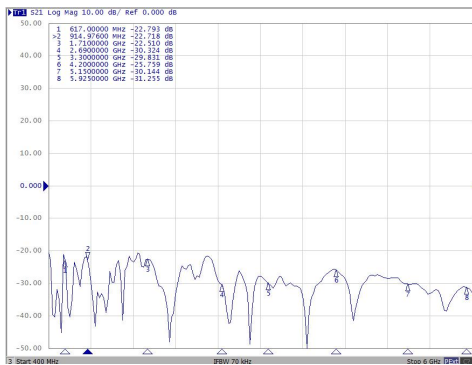
617~960MHz 1710~2690MHz Antenna 0 &  
1930~2690MHz 3300~4200MHz  
5150~5925MHz Antenna 1 S21

617~960MHz 1710~2690MHz Antenna 0 &  
1710~2690MHz 3300~4200MHz  
5150~5925MHz Antenna 3 S21



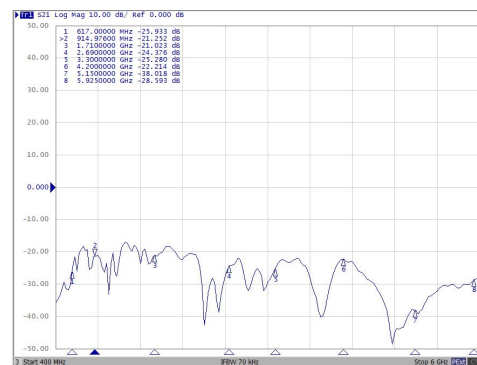
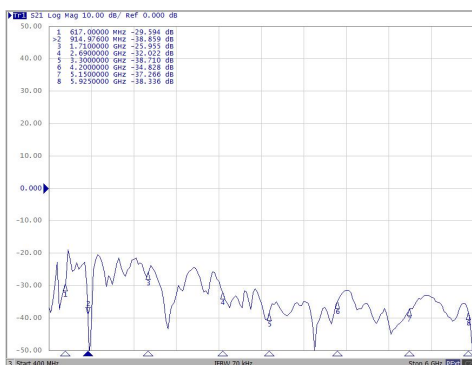
617~960MHz 1710~2690MHz Antenna 0 &  
3300~4200MHz Antenna 5 S21

617~960MHz 1710~2690MHz Antenna 0 &  
2400~2500MHz 5150~5850MHz WIFI 0  
S21



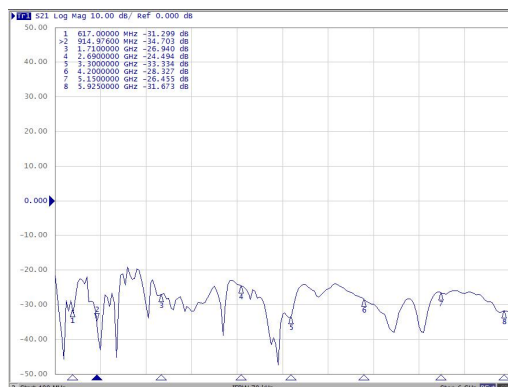
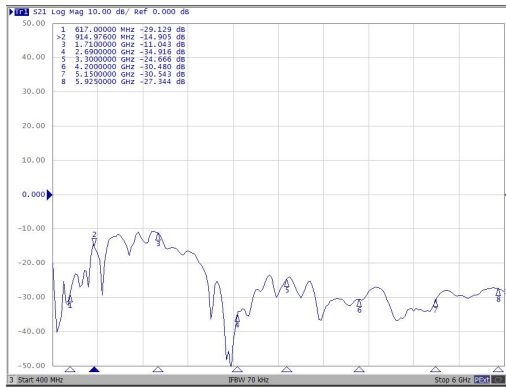
617~960MHz 1710~2690MHz Antenna 0 &  
2400~2500MHz 5150~5850MHz WIFI 1  
S21

617~960MHz 1710~2690MHz Antenna 2 &  
3300~4200MHz Antenna 4 S21



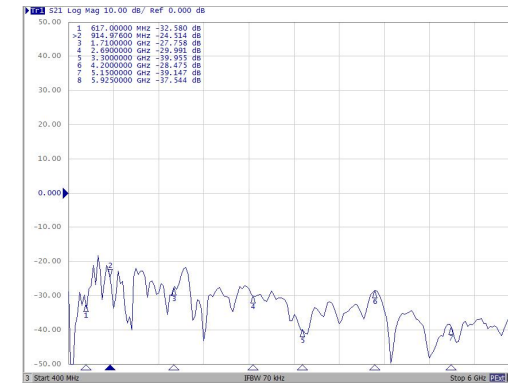
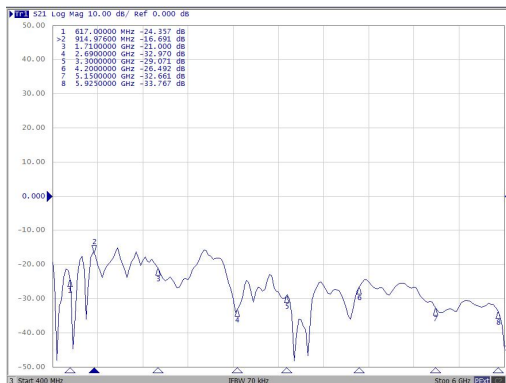
617~960MHz 1710~2690MHz Antenna 2 &  
1930~2690MHz 3300~4200MHz  
5150~5925MHz Antenna 1 S21

617~960MHz 1710~2690MHz Antenna 2 &  
1710~2690MHz 3300~4200MHz  
5150~5925MHz  
Antenna 3 S21



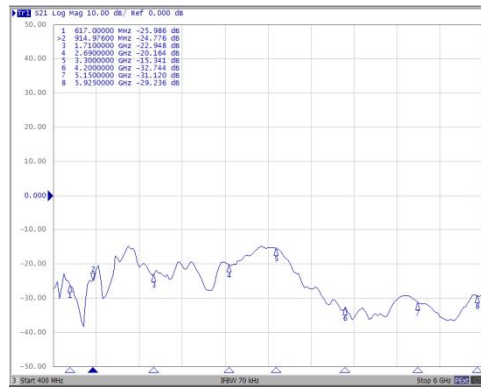
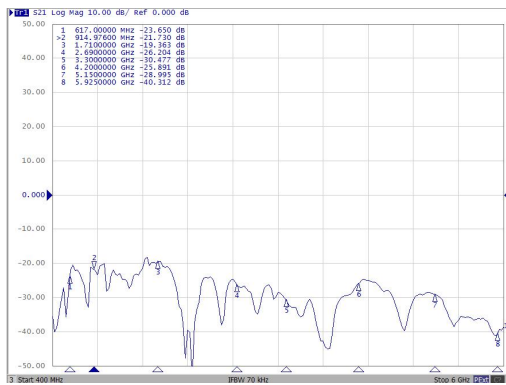
617~960MHz 1710~2690MHz Antenna 2 &  
3300~4200MHz Antenna 5 S21

617~960MHz 1710~2690MHz Antenna 2 &  
2400~2500MHz 5150~5850MHz WIFI 0  
S21



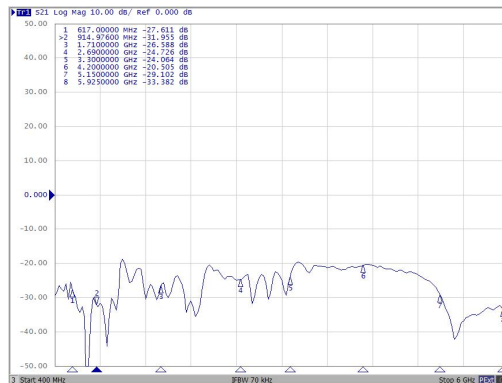
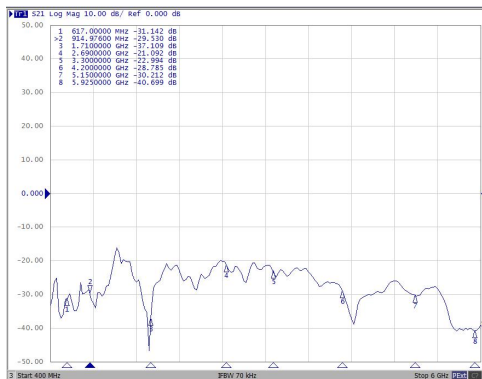
617~960MHz 1710~2690MHz Antenna2 &  
2400~2500MHz 5150~5850MHz  
WIFI 1 S21

3300~4200MHz Antenna 4 &  
1930~2690MHz 3300~4200MHz  
5150~5925MHz  
Antenna 1 S21



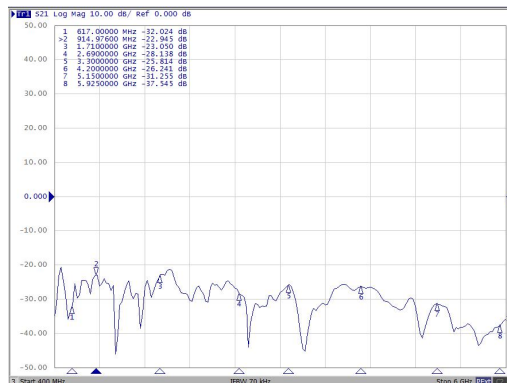
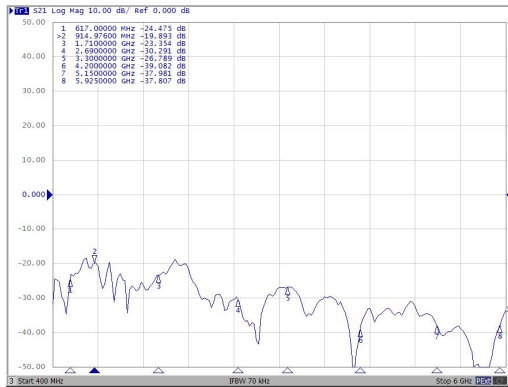
3300~4200MHz Antenna4 &  
1710~2690MHz 3300~4200MHz  
5150~5925MHz  
Antenna 3 S21

3300~4200MHz Antenna 4 &  
3300~4200MHz Antenna 5 S21



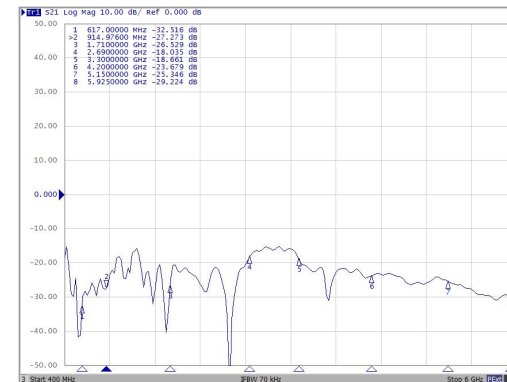
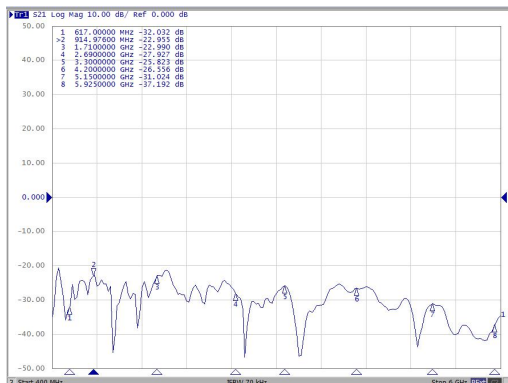
3300~4200MHz Antenna4 &  
2400~2500MHz 5150~5850MHz WIFI 0  
S21

3300~4200MHz Antenna 4&  
2400~2500MHz 5150~5850MHz WIFI 1  
S21



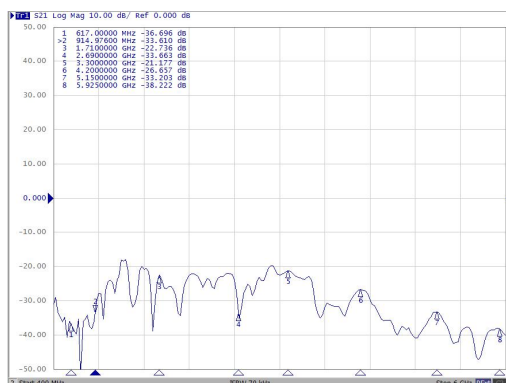
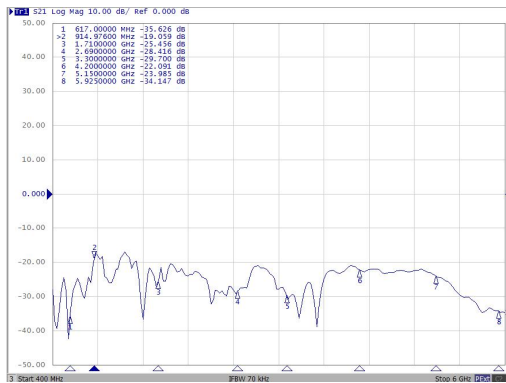
1930~2690MHz 3300~4200MHz  
5150~5925MHz Antenna 1 &  
1710~2690MHz 3300~4200MHz  
5150~5925MHz  
Antenna 3 S21

1930~2690MHz 3300~4200MHz  
5150~5925MHz Antenna 1 &  
3300~4200MHz Antenna 5 S21



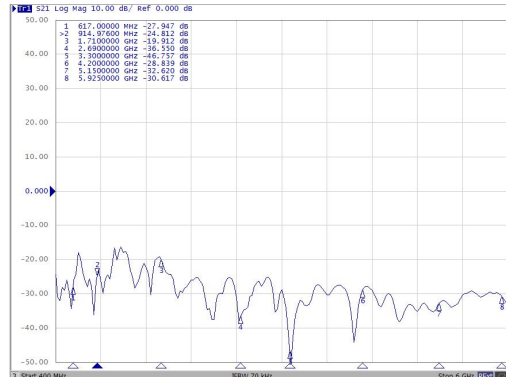
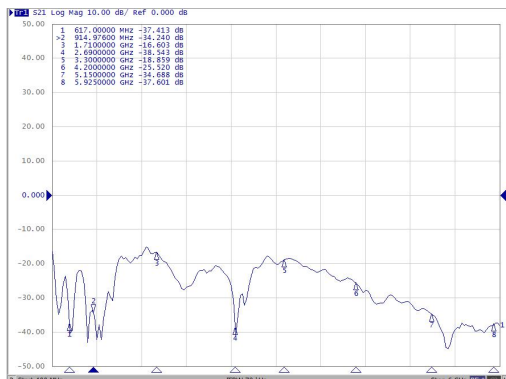
1930~2690MHz                      3300~4200MHz  
5150~5925MHz Antenna1 &  
2400~2500MHz    5150~5850MHz    WIFI 0  
S21

1930~2690MHz                      3300~4200MHz  
5150~5925MHz Antenna 1 &  
2400~2500MHz    5150~5850MHz    WIFI 1  
S21



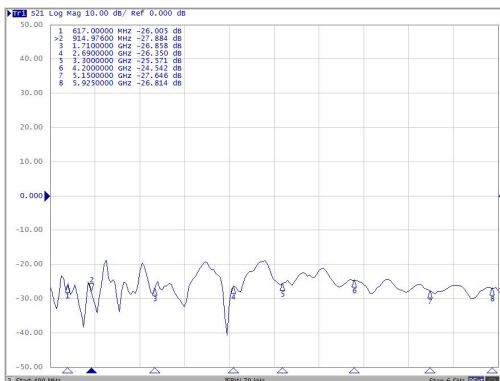
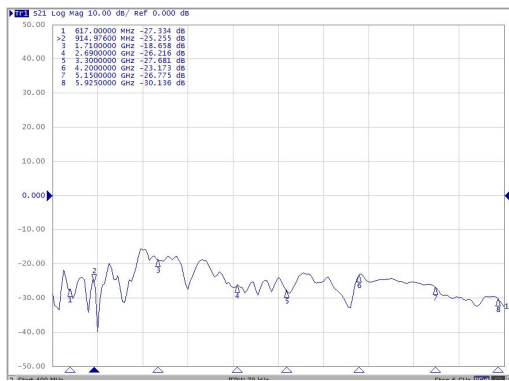
1710~2690MHz                      3300~4200MHz  
5150~5925MHz Antenna 3 &  
3300~4200MHz    Antenna 5    S21

1710~2690MHz                      3300~4200MHz  
5150~5925MHz                      Antenna3 &  
2400~2500MHz    5150~5850MHz    WIFI 0  
S21



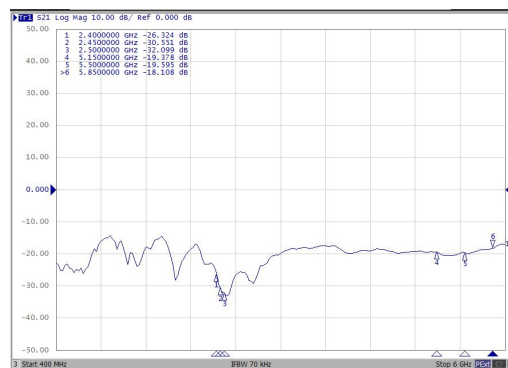
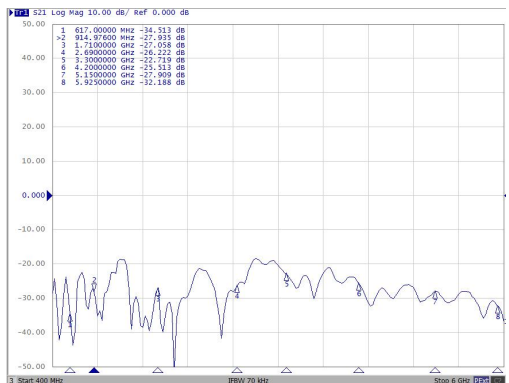
1710~2690MHz                      3300~4200MHz  
5150~5925MHz                      Antenna3&  
2400~2500MHz 5150~5850MHz    WIFI 1  
S21

3300~4200MHz Antenna 5 &  
2400~2500MHz 5150~5850MHz    WIFI 0  
S21



3300~4200MHz Antenna 5 &  
2400~2500MHz 5150~5850MHz    WIFI 1  
S21

2400~2500MHz 5150~5850MHz    WIFI 0 &  
2400~2500MHz 5150~5850MHz    WIFI 1 S21



Antenna 0 617~960MHz 1710~2690MHz Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
600	-3.28	16.69	1700	1.24	55.53
620	0.56	31.26	1740	1.30	55.16
640	-0.48	28.03	1780	1.47	59.50
660	-1.33	20.84	1820	1.20	50.75
680	-1.12	22.30	1860	1.46	50.86
700	0.29	33.88	1900	1.53	55.98
720	1.86	32.84	1940	1.81	53.63
740	1.22	41.73	1980	1.82	54.61
760	1.31	43.54	2020	1.38	54.68
780	1.60	39.26	2060	1.02	52.21
800	0.87	38.70	2100	1.97	59.49
820	0.68	32.47	2140	1.03	51.94
840	0.90	35.30	2180	1.03	56.39
860	1.05	40.81	2220	1.39	52.31
880	1.63	46.45	2260	0.86	58.02
900	1.22	45.08	2300	0.22	58.11
920	1.31	47.38	2340	0.22	58.02
940	1.17	50.34	2380	0.79	55.70
960	1.60	49.19	2420	1.44	55.06
			2460	1.03	56.97
			2500	1.05	53.18
			2540	1.03	51.60
			2580	1.07	50.22
			2620	1.35	59.56
			2660	1.54	57.44
			2700	1.77	52.85



Antenna 2      617~960MHz    1710~2690MHz    Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
600	-8.08	8.73	1700	1.34	49.95
620	-5.51	13.44	1740	1.82	52.61
640	-4.19	17.83	1780	1.75	57.80
660	-1.18	21.36	1820	1.70	55.55
680	0.06	32.14	1860	1.70	56.89
700	0.92	39.01	1900	1.00	57.68
720	0.33	45.19	1940	1.13	58.19
740	1.43	50.27	1980	1.65	58.46
760	-0.06	47.13	2020	1.00	59.59
780	0.43	46.77	2060	1.37	58.73
800	-0.25	41.65	2100	1.35	56.43
820	0.85	37.72	2140	1.15	57.02
840	1.56	44.91	2180	1.50	59.18
860	1.43	48.84	2220	1.38	53.38
880	1.32	55.62	2260	0.86	52.07
900	1.56	58.41	2300	0.22	43.88
920	1.60	54.06	2340	0.22	39.69
940	1.27	53.54	2380	0.56	41.66
960	0.97	52.39	2420	0.92	51.20
			2460	1.12	50.42
			2500	1.07	59.83
			2540	1.04	50.67
			2580	1.04	56.27
			2620	1.58	57.59
			2660	1.77	51.41
			2700	1.04	45.91

Antenna 4 3300~4200MHz Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
3300	-2.09	50.52			
3350	-2.09	52.13			
3400	-2.09	53.08			
3450	-2.09	53.56			
3500	-2.09	54.00			
3550	-2.09	55.58			
3600	-2.09	54.66			
3650	-2.09	56.90			
3700	-2.09	58.27			
3750	-2.09	58.21			
3800	-2.09	57.89			
3850	-2.09	55.20			
3900	-2.09	54.44			
3950	-2.09	52.76			
4000	-2.09	50.25			
4050	-2.09	59.52			
4100	-2.09	50.59			
4150	-2.09	53.05			
4200	-2.09	52.49			

Antenna 1 1930~2690MHz 3300~4200MHz 5150~5925MHz Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
1900	1.91	51.59	5150	2.09	67.84
1950	1.19	52.12	5200	2.06	66.55
2000	1.84	56.05	5250	2.07	60.26
2050	1.10	59.26	5300	2.79	66.00
2100	1.22	58.78	5350	2.27	60.91
2150	1.75	57.60	5400	2.96	66.36

2200	1.17	51.27	5450	2.22	69.41
2250	0.37	56.65	5500	2.61	62.59
2300	0.22	54.74	5550	2.72	64.16
2350	0.22	50.79	5600	2.10	57.57
2400	0.39	50.20	5650	2.40	58.13
2450	1.15	51.48	5700	2.29	54.80
2500	1.07	59.28	5750	2.16	58.03
2550	1.02	52.47	5800	2.43	58.22
2600	1.01	53.60	5850	2.50	63.19
2650	1.24	59.50	5900	2.91	58.81
2700	1.71	59.95	5950	2.65	59.42
3300	-2.09	50.74			
3350	-2.09	51.89			
3400	-2.09	51.14			
3450	-2.09	52.07			
3500	-2.09	52.77			
3550	-2.09	53.42			
3600	-2.09	52.54			
3650	-2.09	52.21			
3700	-2.09	54.67			
3750	-2.09	55.71			
3800	-2.09	56.54			
3850	-2.09	56.29			
3900	-2.09	55.27			
3950	-2.09	53.98			
4000	-2.09	52.29			
4050	-2.09	52.51			
4100	-2.09	53.09			
4150	-2.09	53.91			
4200	-2.09	53.74			

Antenna 3

1710~2690MHz

3300~4200MHz

5150~5925MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
1700	1.87	58.16	5150	2.95	68.22
1750	1.77	51.56	5200	2.86	67.74

1800	1.20	48.26	5250	2.00	62.35
1850	1.57	56.24	5300	2.12	59.72
1900	1.26	51.47	5350	2.37	65.01
1950	1.52	52.18	5400	2.88	61.71
2000	1.67	54.92	5450	2.23	66.52
2050	1.22	59.45	5500	2.71	60.36
2100	1.84	50.40	5550	2.11	66.08
2150	1.56	52.63	5600	2.89	58.75
2200	1.37	55.17	5650	2.05	61.69
2250	0.74	53.45	5700	2.27	57.05
2300	0.22	54.41	5750	2.33	59.06
2350	0.17	53.75	5800	2.54	56.74
2400	0.22	52.23	5850	2.51	66.26
2450	1.08	59.57	5900	2.50	61.55
2500	1.05	55.11	5950	2.65	61.48
2550	1.07	51.14			
2600	1.05	54.75			
2650	1.92	50.12			
2700	1.23	50.10			
3300	-2.09	52.32			
3350	-2.09	52.26			
3400	-2.09	52.51			
3450	-2.09	53.33			
3500	-2.09	54.59			
3550	-2.09	54.54			
3600	-2.09	55.28			
3650	-2.09	57.67			
3700	-2.09	58.42			
3750	-2.09	57.01			
3800	-2.09	55.45			
3850	-2.09	53.50			
3900	-2.09	52.50			
3950	-2.09	52.62			
4000	-2.09	52.42			
4050	-2.09	52.72			
4100	-2.09	52.42			
4150	-2.09	53.13			
4200	-2.09	53.46			

Antenna 5 3300~4200MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
3300	-2.09	57.52			
3350	-2.09	51.45			
3400	-2.09	57.40			
3450	-2.09	56.72			
3500	-2.09	57.03			
3550	-2.09	57.00			
3600	-2.09	56.74			
3650	-2.09	57.59			
3700	-2.09	50.17			
3750	-2.09	54.41			
3800	-2.09	51.62			
3850	-2.09	50.57			
3900	-2.09	51.56			
3950	-2.09	53.79			
4000	-2.09	54.23			
4050	-2.09	51.81			
4100	-2.09	52.99			
4150	-2.09	55.75			
4200	-2.09	55.99			

WIFI 0 2400~2500MHz 5150~5850MHz Efficiency

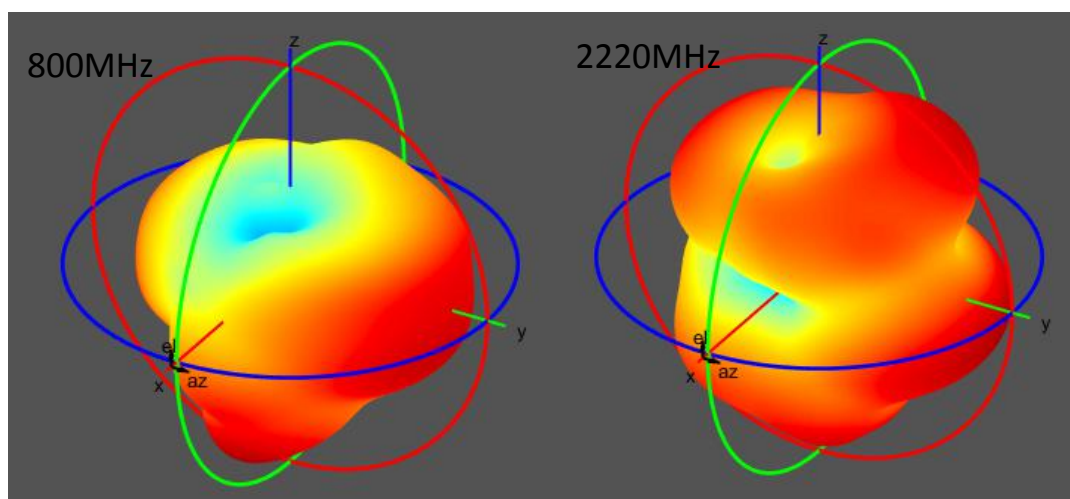
Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400.00	4.4	66.79	5000.00	4.6	51.59
2410.00	4.5	66.44	5100.00	5.7	57.84
2420.00	4.5	68.26	5200.00	5.7	56.73
2430.00	4.3	68.49	5300.00	6.0	50.15
2440.00	4.1	66.92	5400.00	6.4	53.18
2450.00	4.0	67.11	5500.00	5.9	52.22
2460.00	3.9	69.02	5600.00	5.2	52.50

2470.00	3.7	67.52	5700.00	4.7	54.21
2480.00	3.7	67.42	5800.00	4.7	57.13
2490.00	3.4	66.61	5900.00	4.3	57.24
2500.00	3.3	66.43	6000.00	3.0	53.01

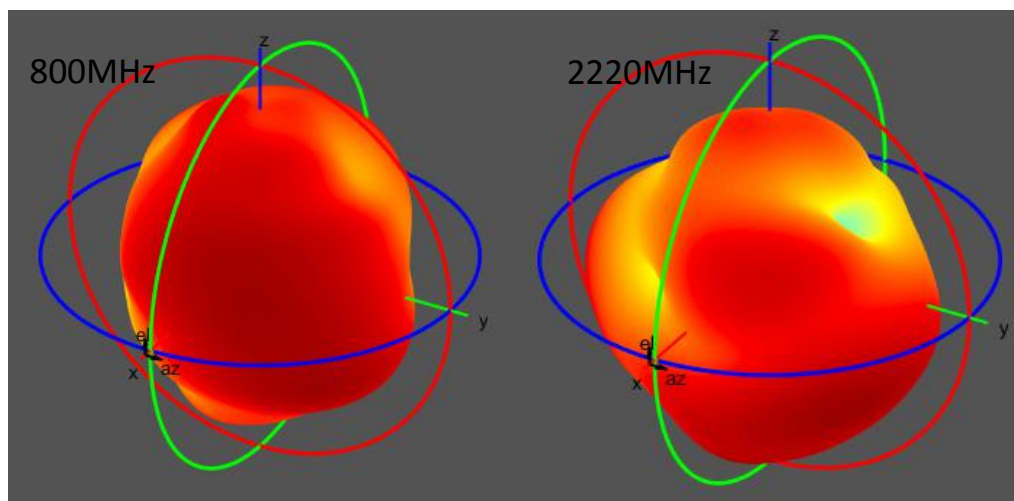
WIFI 1 2400~2500MHz 5150~5850MHz Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.00	2.6	65.67	5000.00	5.1	53.50
2410.00	2.6	65.73	5100.00	5.2	54.53
2420.00	3.0	67.40	5200.00	4.4	52.32
2430.00	3.4	67.67	5300.00	3.7	50.24
2440.00	3.1	66.22	5400.00	4.6	51.91
2450.00	3.1	66.27	5500.00	5.0	50.95
2460.00	3.4	68.05	5600.00	4.3	50.96
2470.00	3.6	67.70	5700.00	3.5	53.03
2480.00	3.6	68.02	5800.00	3.5	54.52
2490.00	3.8	68.45	5900.00	3.6	54.10
2500.00	3.9	68.03	6000.00	3.0	51.70

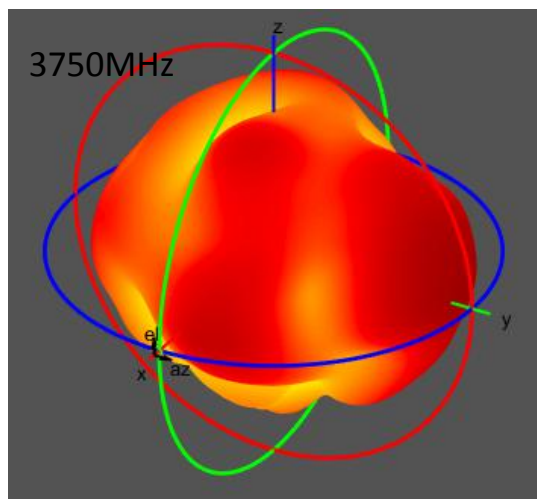
Antenna 0 617~960MHz 1710~2690MHz 3D



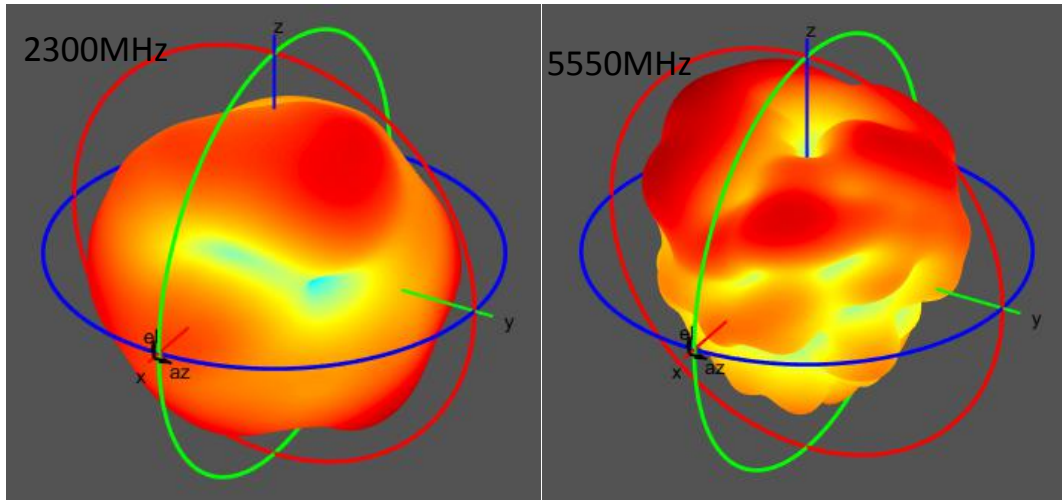
Antenna2 617~960MHz 1710~2690MHz 3D



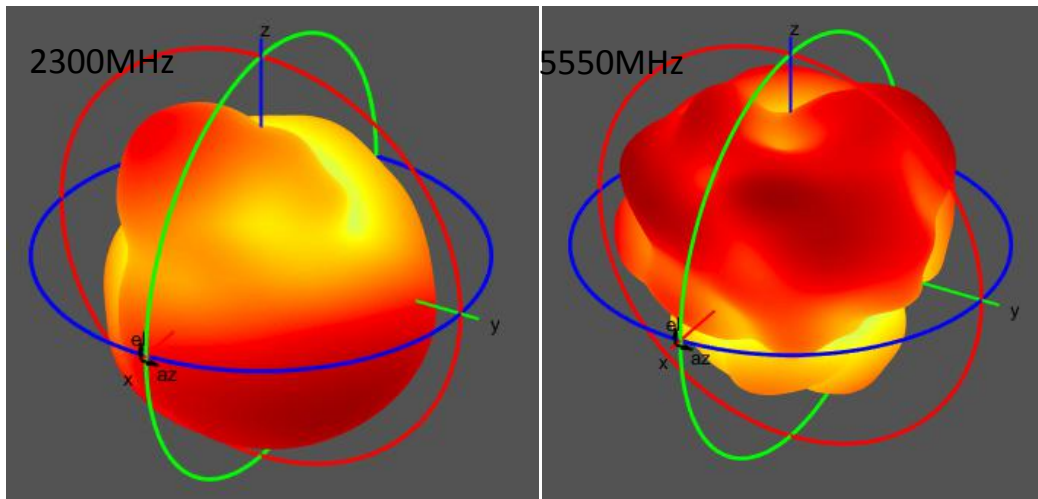
Antenna 4 3300~4200MHz 3D



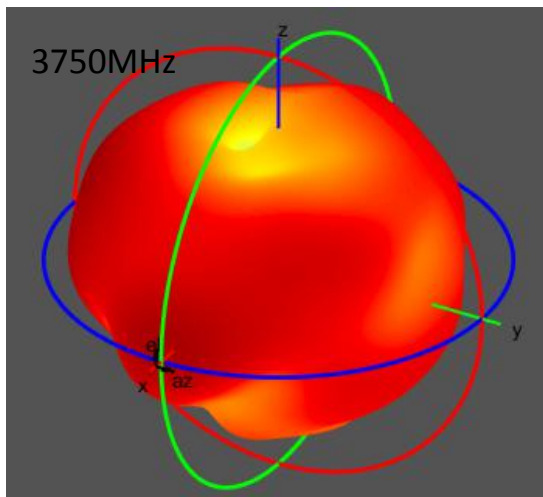
Antenna 1 1930~2690MHz 3300~4200MHz 5150~5925MHz 3D



Antenna 3 2400~2500MHz 3300~4200MHz 5150~5850MHz 3D

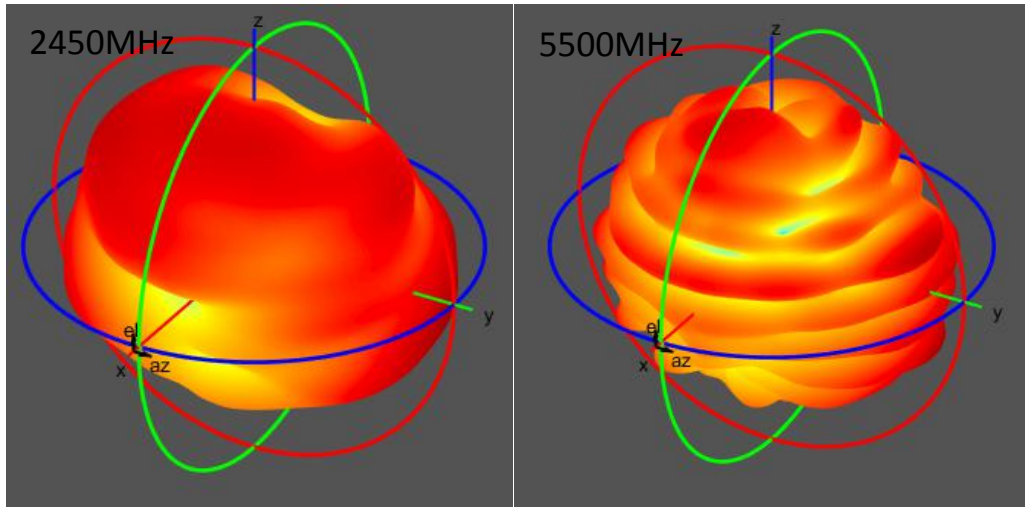


Antenna 5 3300~4200MHz 3D

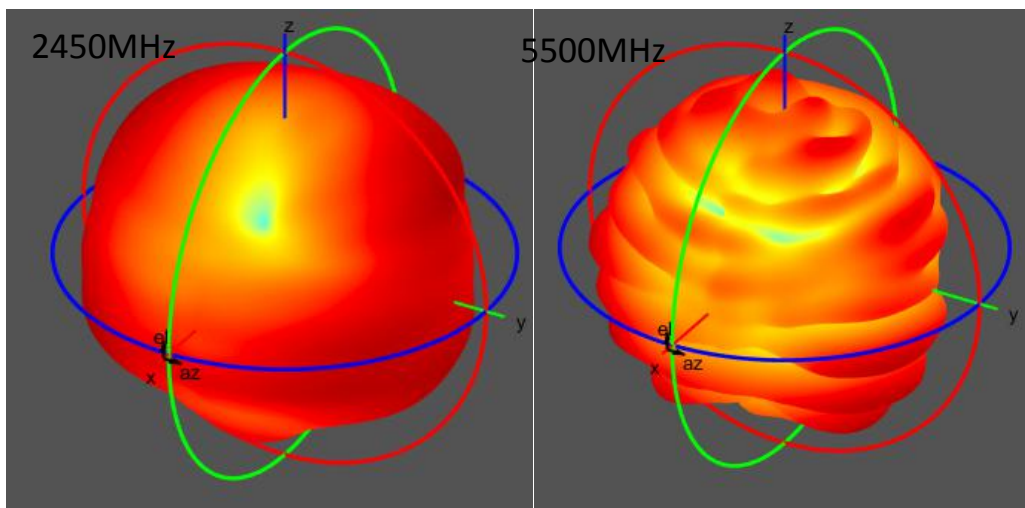




WIFI 0 2400~2500MHz 5150~5850MHz 3D



WIFI 1 2400~2500MHz 5150~5850MHz 3D



**2.2 Active Test Result(TRP TIS)**

LTE	Channel	TRP(dBm)	TIS(dBm)	LTE	Channel	TRP(dBm)	TIS(dBm)
Band 2(10M)	L	20.62	-99.92	Band 25(10M)	L	20.7	-100.5
	M	20.62	-99.11		M	20.23	-100.21
	H	20.69	-99.74		H	20.08	-100.25
Band 66(4)(10M)	L	20.04	-99.56	Band 26(10M)	L	20.25	-100.01
	M	20.34	-99.97		M	19.56	-100.01
	H	20.29	-99.55		H	19.81	-100.05
Band 5(10M)	L	20.6	-99.19	Band 30(10M)	M	18.66	-97.12
	M	20.85	-99.23	Band 41(20M) (TIS WIFI CH1)	L	22.01	-96.58
	H	20.32	-99.33		M	22.14	-96.09
Band 7(10M) (TIS WIFI CH1)	L	20.04	-99.67	H	22.87	-96.59	
	M	19.94	-99.56	Band 48(20M)	L	19.3	-100.89
	H	19.75	-98.84		M	20.56	-100.24
Band 12(10M)	L	18.57	-93.92		H	19.01	-100.8
	M	18.83	-96.68	Band 71(10M)	L	17.75	-95.83
	H	18.85	-97.43		M	18.58	-96.42
Band 13(10M)	L	19.9	-97.27		H	18.98	-95.79
	M	19.94	-97.22				
	H	19.92	-100.06				
Band 14(10M)	L	20.52	-95.05				
	M	20.35	-95				
	H	20.27	-97.52				

<b>Band 17(10M)</b>	<b>L</b>	<b>18.27</b>	<b>-95.75</b>	
	<b>M</b>	<b>18.63</b>	<b>-95.33</b>	
	<b>H</b>	<b>18.88</b>	<b>-94.9</b>	

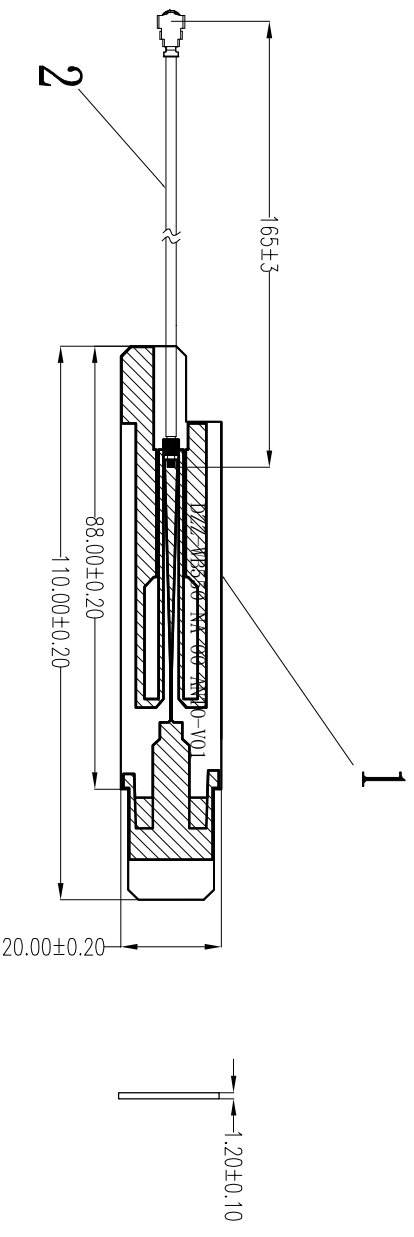
<b>5G SA</b>	<b>Channels</b>	<b>SCS(KHz)</b>	<b>TRP(dBm)</b>	<b>TIS(dBm)</b>
<b>N2 (10MHz)</b>	<b>L</b>	<b>30</b>	<b>21.06</b>	<b>-99.13</b>
	<b>M</b>	<b>30</b>	<b>20.98</b>	<b>-99.45</b>
	<b>H</b>	<b>30</b>	<b>20.87</b>	<b>-99.66</b>
<b>N5 (10MHz)</b>	<b>L</b>	<b>30</b>	<b>20.52</b>	<b>-95.38</b>
	<b>M</b>	<b>30</b>	<b>21.05</b>	<b>-95.05</b>
	<b>H</b>	<b>30</b>	<b>20.67</b>	<b>-95.67</b>
<b>n7 (10MHz) (TIS WIFI CH1)</b>	<b>L</b>	<b>30</b>	<b>20.42</b>	<b>-96.44</b>
	<b>M</b>	<b>30</b>	<b>20.36</b>	<b>-96.14</b>
	<b>H</b>	<b>30</b>	<b>20.28</b>	<b>-96.74</b>
<b>N12 (10MHz)</b>	<b>L</b>	<b>30</b>	<b>20.01</b>	<b>-96.35</b>
	<b>M</b>	<b>30</b>	<b>19.94</b>	<b>-96.11</b>
	<b>H</b>	<b>30</b>	<b>19.72</b>	<b>-95.48</b>
<b>N14 (10MHz)</b>	<b>L</b>	<b>30</b>	<b>20.02</b>	<b>-93.62</b>
	<b>M</b>	<b>30</b>	<b>20.12</b>	<b>-93.55</b>
	<b>H</b>	<b>30</b>	<b>20.02</b>	<b>-93.78</b>

<b>N25 (10MHz)</b>	<b>L</b>	<b>30</b>	<b>21.72</b>	<b>-99.12</b>
	<b>M</b>	<b>30</b>	<b>20.26</b>	<b>-99.21</b>
	<b>H</b>	<b>30</b>	<b>20.95</b>	<b>-99.29</b>
<b>n30 (10MHz)</b> <b>n41 (100MHz) (TIS WIFI CH1)</b>	<b>L</b>	<b>30</b>	<b>19.67</b>	<b>-97.65</b>
	<b>L</b>	<b>30</b>	<b>22.59</b>	<b>-87.09</b>
	<b>M</b>	<b>30</b>	<b>22.65</b>	<b>-88.53</b>
	<b>H</b>	<b>30</b>	<b>22.98</b>	<b>-89.38</b>
<b>n48 (100MHz)</b>	<b>L</b>	<b>30</b>	<b>20.52</b>	<b>-92.38</b>
	<b>M</b>	<b>30</b>	<b>20.57</b>	<b>-92.34</b>
	<b>H</b>	<b>30</b>	<b>20.62</b>	<b>-91.88</b>
<b>N66 (10MHz)</b>	<b>L</b>	<b>30</b>	<b>20.36</b>	<b>-98.02</b>
	<b>M</b>	<b>30</b>	<b>20.4</b>	<b>-97.58</b>
	<b>H</b>	<b>30</b>	<b>20.37</b>	<b>-97.8</b>
<b>N71 (10MHz)</b>	<b>L</b>	<b>30</b>	<b>18.57</b>	<b>-102.43</b>
	<b>M</b>	<b>30</b>	<b>18.98</b>	<b>-101.23</b>
	<b>H</b>	<b>30</b>	<b>19.4</b>	<b>-101.86</b>
<b>n77 (100MHz)</b>	<b>L</b>	<b>30</b>	<b>22.87</b>	<b>-91.39</b>
	<b>M</b>	<b>30</b>	<b>23.14</b>	<b>-91.21</b>
	<b>H</b>	<b>30</b>	<b>23.21</b>	<b>-91.02</b>
<b>n78 (100MHz)</b>	<b>L</b>	<b>30</b>	<b>22.82</b>	<b>-91.49</b>
	<b>M</b>	<b>30</b>	<b>22.78</b>	<b>-91.52</b>
	<b>H</b>	<b>30</b>	<b>22.9</b>	<b>-91.75</b>

<b>2.4G WIFI/11b</b>			
<b>channel</b>	<b>1</b>	<b>6</b>	<b>11</b>
<b>TRP(dBm)</b> <b>(11Mbps)</b>	15.14	15.42	15.53
<b>TIS(dBm)</b> <b>(11Mbps)</b>	-90.18	-88.88	-90.56
<b>5G WIFI /11a</b>			
<b>channel</b>	<b>36</b>		<b>161</b>
<b>TRP(dBm)</b> <b>(6Mbps)</b>	17.03		17.32
<b>TIS(dBm)</b> <b>(54Mbps)</b>	-81.77		-82.22

1 2 3 4 5 6 7 8

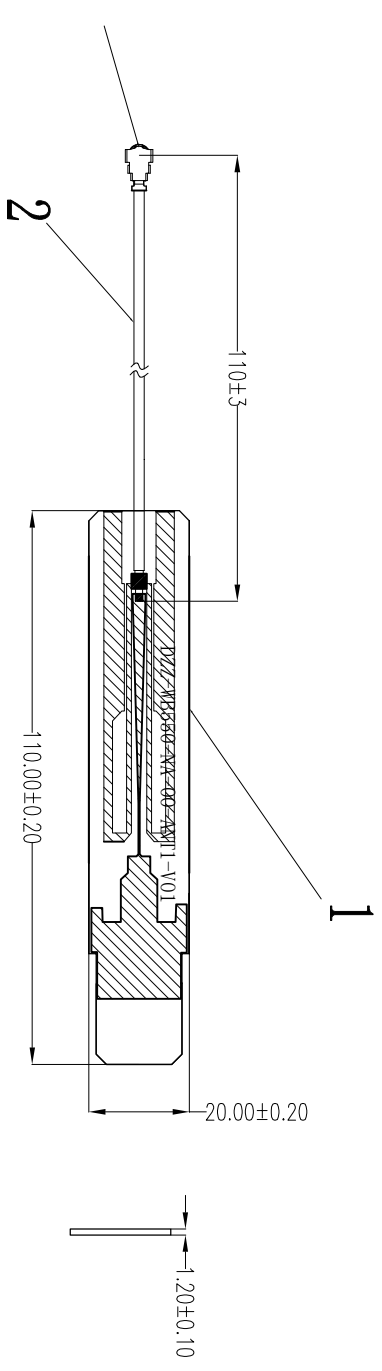
RoHS  
Compliant  
G P




Rev	1	Description	Date	Remark
A	1	New drawing		

SHEN ZHEN Be Comfortable CO., LTD		Project		WB550-NA-00		Date		2022.10.25	
Third Angle		Part Name		ANT0		Designed by		MD 田进	
0~10 ±0.05		Part No.		NI2-7238-R0A		Checked by		RF 边博	
10~18 ±0.10		Material		N/A		Approved by			
18~30 ±0.12		DWG No.				Unit		mm	
30~40 ±0.15						Scale		1:1	
40~ ±0.20						Rev		A	
Angle ±0.5°									
Location N/A									

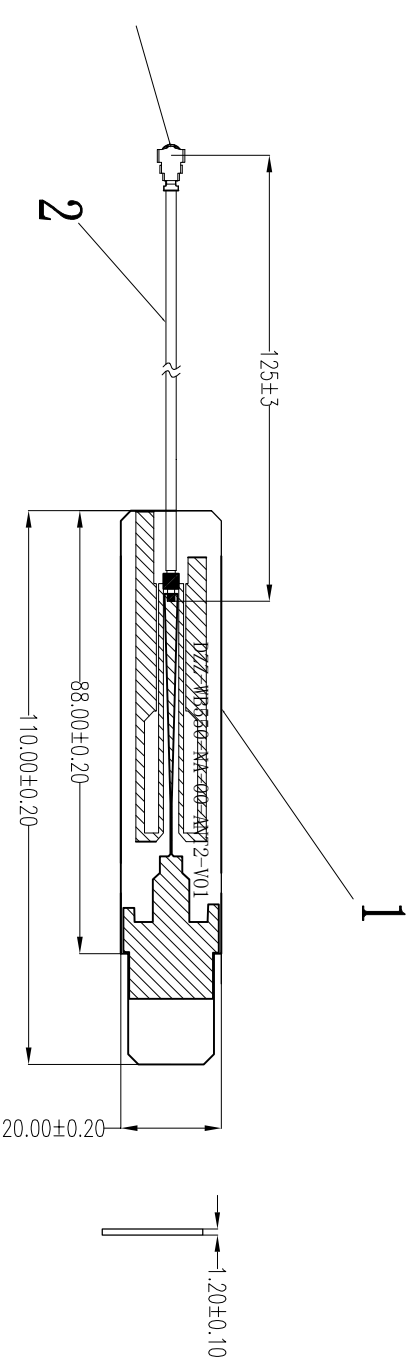
RoHS  
Compliant  
G P



Rev	Description	Date	Remark	Location	5	6	7	8																										
1	New drawing																																	
2																																		
3																																		
4																																		
				<table border="1" style="width: 100%;"> <tr> <td colspan="2" style="text-align: center;">SHEN ZHEN Be Comfortable CO., LTD</td> </tr> <tr> <td style="width: 50%;">Project</td> <td>WB550-NA-00</td> </tr> <tr> <td>Part Name</td> <td>ANT1</td> </tr> <tr> <td>Part No.</td> <td>NI2-7239-R0A</td> </tr> <tr> <td>Material</td> <td>N/A</td> </tr> <tr> <td>DWG No.</td> <td></td> </tr> <tr> <td>Date</td> <td>2022.10.25</td> </tr> <tr> <td>Designed by</td> <td></td> </tr> <tr> <td>Checked by</td> <td>MD 田进</td> </tr> <tr> <td>Approved by</td> <td>RF 边博</td> </tr> <tr> <td>Unit</td> <td>mm</td> </tr> <tr> <td>Scale</td> <td>1:1</td> </tr> </table>					SHEN ZHEN Be Comfortable CO., LTD		Project	WB550-NA-00	Part Name	ANT1	Part No.	NI2-7239-R0A	Material	N/A	DWG No.		Date	2022.10.25	Designed by		Checked by	MD 田进	Approved by	RF 边博	Unit	mm	Scale	1:1		
SHEN ZHEN Be Comfortable CO., LTD																																		
Project	WB550-NA-00																																	
Part Name	ANT1																																	
Part No.	NI2-7239-R0A																																	
Material	N/A																																	
DWG No.																																		
Date	2022.10.25																																	
Designed by																																		
Checked by	MD 田进																																	
Approved by	RF 边博																																	
Unit	mm																																	
Scale	1:1																																	
				<table border="1" style="width: 100%;"> <tr> <td colspan="2" style="text-align: center;">Third Angle</td> </tr> <tr> <td>0~10</td> <td>±0.05</td> <td>○</td> <td>0.02</td> </tr> <tr> <td>10~18</td> <td>±0.10</td> <td>◎</td> <td>0.03</td> </tr> <tr> <td>18~30</td> <td>±0.12</td> <td>⊥</td> <td>0.02</td> </tr> <tr> <td>30~40</td> <td>±0.15</td> <td>∇</td> <td>0.04</td> </tr> <tr> <td>40~</td> <td>±0.20</td> <td>Angle</td> <td>±0.5°</td> </tr> <tr> <td colspan="2">Location</td> <td colspan="2">N/A</td> </tr> </table>					Third Angle		0~10	±0.05	○	0.02	10~18	±0.10	◎	0.03	18~30	±0.12	⊥	0.02	30~40	±0.15	∇	0.04	40~	±0.20	Angle	±0.5°	Location		N/A	
Third Angle																																		
0~10	±0.05	○	0.02																															
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40~	±0.20	Angle	±0.5°																															
Location		N/A																																

1 2 3 4 5 6 7 8

RoHS  
Compliant  
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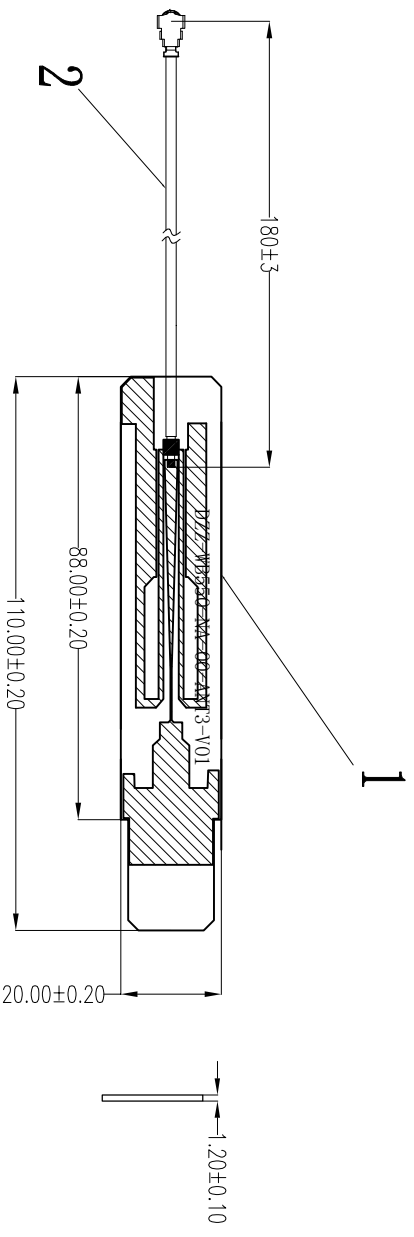
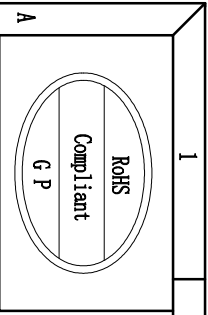


Rev		Description		Date	Remark	Location		5		6		7		8	
A		New drawing				40~		±0.20		Angle		±0.5°			
1						N/A									

SHEN ZHEN Be Comfortable CO.,LTD															
Project		WB550-NA-00		Date		2022.10.25									
Part Name		ANT2		Designed by											
Part No.		N12-7240-ROA		Checked by		MD 田进									
Material		N/A		Approved by		RF 边博									
DWG No.				Unit		mm		Scale		1:1		Rev		A	





Rev	Description	Date	Remark	Location	N/A	DWG No.	Unit	Scale	Rev	Rev
A	New drawing							1:1	A	A
1										

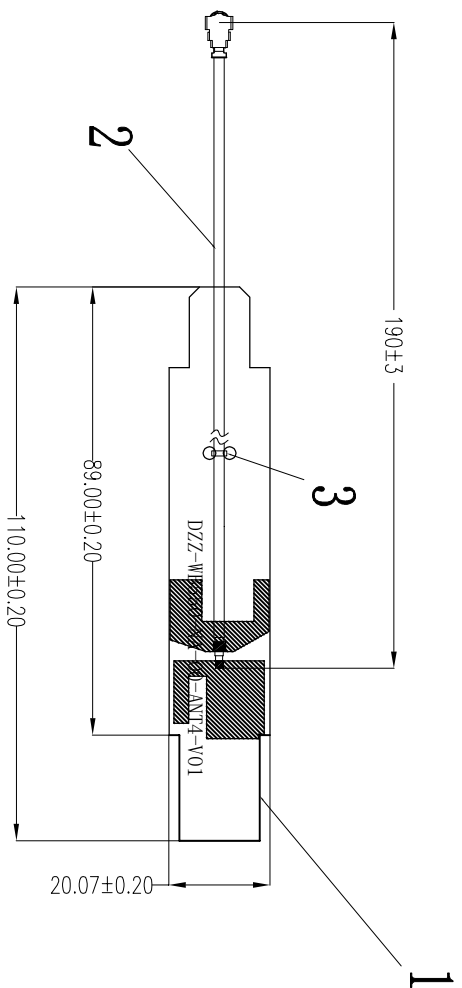
  

SHEN ZHEN Be Comfortable CO., LTD		Date		2022.10.25	
Project	WB550-NA-00	Designed by			
Part Name	ANT3	Checked by	MD	田进	
Part No.	N12-7241-ROA		RF	边博	
Material	N/A	Approved by			
Location	N/A	Unit	mm	Scale	1:1

1 2 3 4 5 6 7 8

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Compliant  
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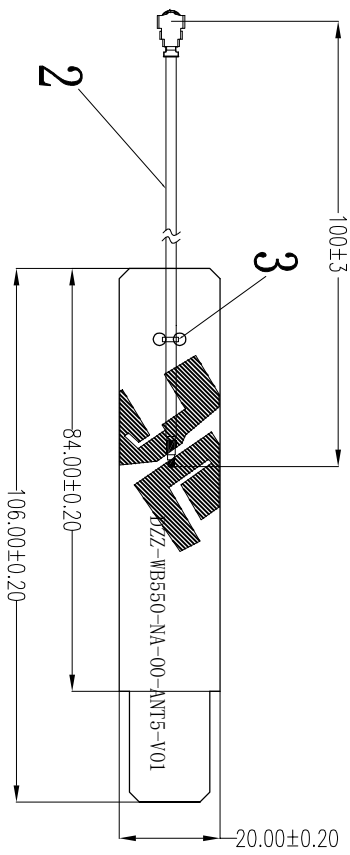
Rev	1	Description	Date	Remark
A		New drawing		

SHEN ZHEN Be Comfortable CO., LTD		Project		WB550-NA-00		Date		2022.10.25	
Third Angle		Part Name		ANT4		Designed by			
0~10 ±0.05		Part No.		N12-7242-ROA		Checked by		MD 田进	
10~18 ±0.10		Material		N/A		RF		边博	
18~30 ±0.12		DWG No.				Approved by			
30~40 ±0.15						Unit		mm	
40~ ±0.20						Scale		1:1	
Angle ±0.5°						Rev		A	
Location N/A									

1 2 3 4 5 6 7 8

A

RoHS  
Compliant  
G P



Rev		Description		Date	Remark	Location		N/A		Angle		±0.5°	
A		New drawing				40~		±0.20		±0.15		0.04	
1						10~18		±0.10		⊙		0.03	
						18~30		±0.12		⊥		0.02	
						30~40		±0.15		∇		0.02	
						40~		±0.20		∠		0.04	

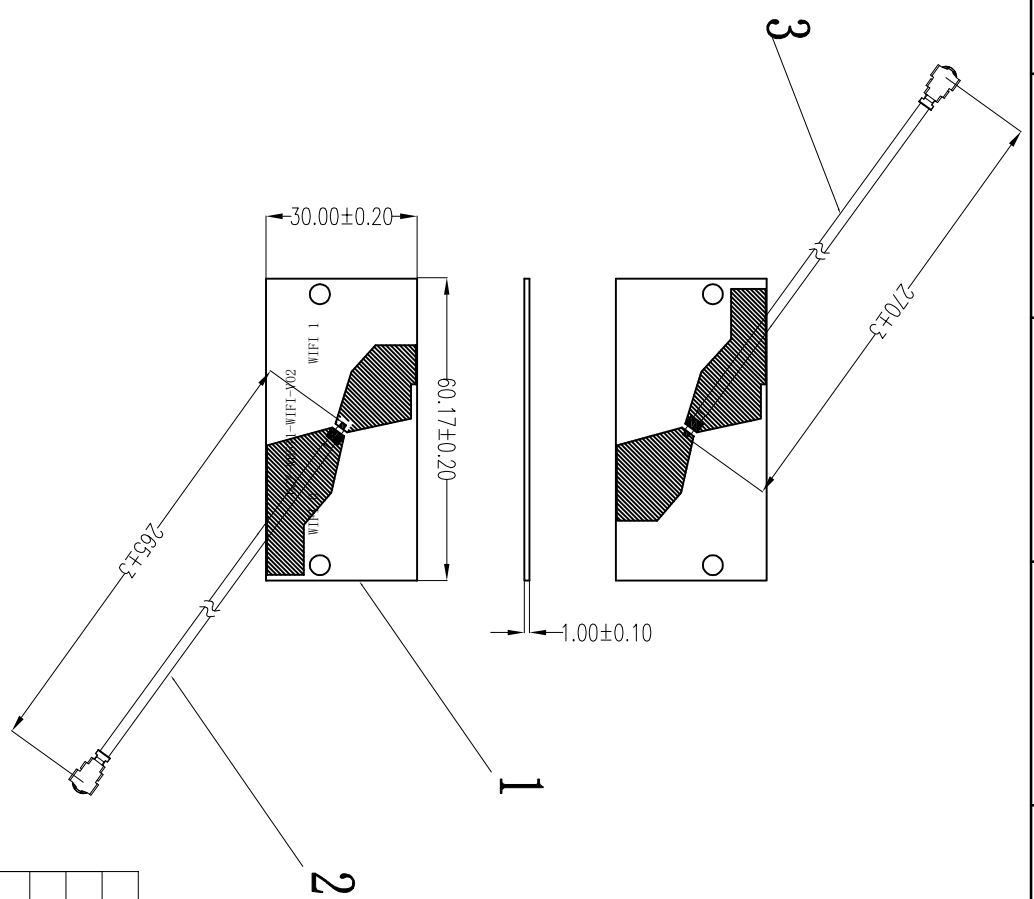
  

SHEN ZHEN Be Comfortable CO., LTD											
Project		WB550-NA-00		Date		2022.10.25					
Part Name		ANT5		Designed by		MD 田进					
Part No.		N12-7243-ROA		Checked by		RF 边博					
Material		N/A		Approved by							
DWG No.				Unit		mm					
				Scale		1:1					
				Rev		A					

1 2 3 4 5 6 7 8

A

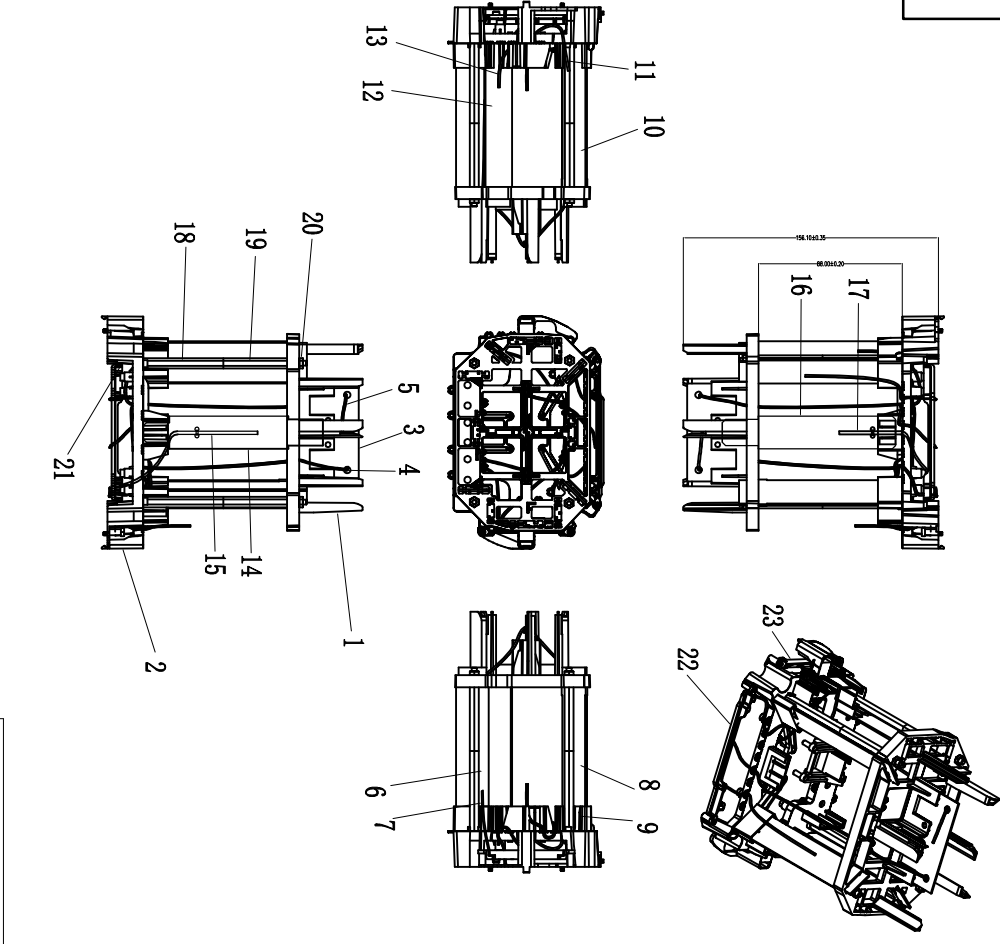
RoHS  
Compliant  
G P



Rev	1	2	3	4	5	6	7	8
A	New drawing			Date	Remark			
Project		WB550-NA-00		Date		2022.10.25		
Part Name		WIFI		Designed by		MD 田进		
Part No.		N12-7244-ROA		Checked by		RF 边博		
Material		N/A		Approved by				
DWG No.				Unit		mm		Scale
								1:1
								Rev
								A

53 97 1 2 3 4 5 6 7 8

RoHS  
Compliant  
G P



Rev	Description	Date	Remark
1	New drawing		

Location	Third Angle	Project	Date	Unit	mm	Scale	1:1	Rev	A
40~	±2.0	Angle ±0.5°							
N/A									

SHEN ZHEN Be Comfortable CO., LTD									
PartName	Project	Date	Designed by	Material	Part No.	Checked by	Approved by	Unit	mm
成品天线	WB550-MA-00	2022.9.1		N/A	M12-7218-R0A	MD	田进		
						RF	边博		