

Heyuan Xunwei Communication Technology Co., Ltd

SPECIFICATION FOR APPROVAL

Supplier:Heyuan Xunwei Communication Technology Co., Ltd

Supplier specifications: Main antenna

Supplier model: Hybrid

Customer Name: IBE

Customer Item No: Hybrid

Version No: Antenna V1.0

Sample delivery date: 2024/11/06

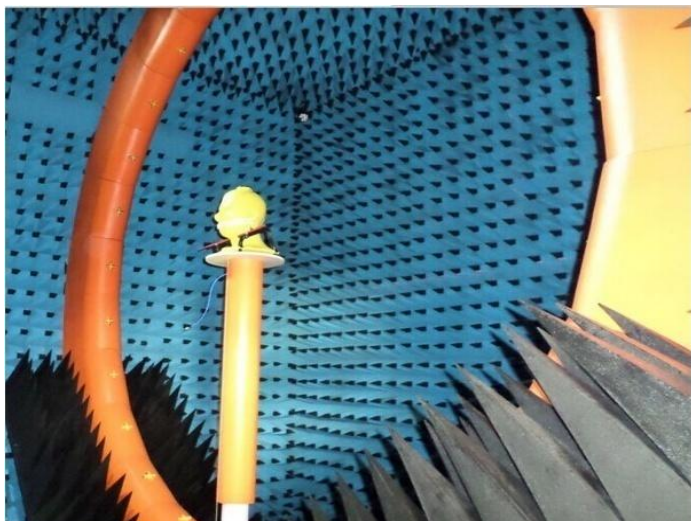
Antenna Type: GPS:FPC Antenna BT:PCB Antenna

Address: A316, Building A, Languang Technology Building, No. 5
Xinxi Road, Nanshan District, Shenzhen

Acknowledgment column	supplier	RF Engineer	to examine	approval	File
		Lee	liwenbo	yue	chenting
	customer	Certified Engineer	to examine	approval	file

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1 . Test instrument and environment: STM darkroom, CMW500 / E5071B, the mobile phone is placed back to the turntable 4 meters away from the standard horn antenna:

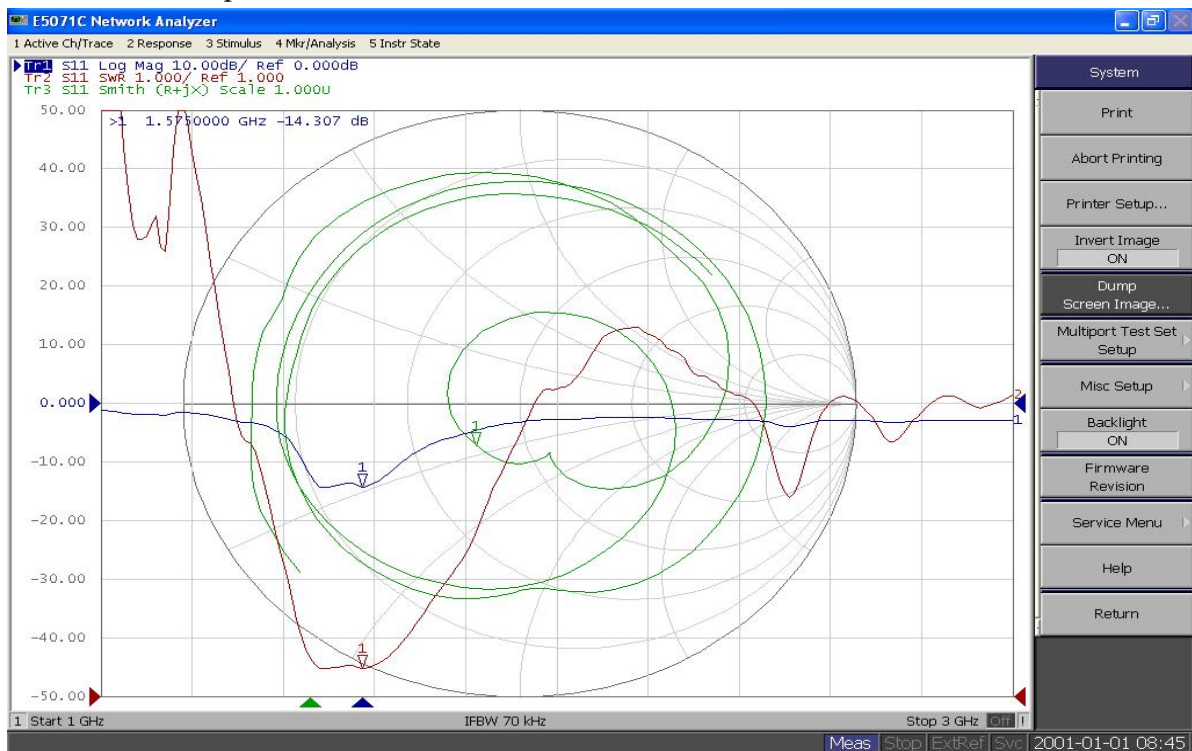


2.Antenna performance:

NO.	Work index	Working parameters
1	working frequency	1575MHZ
2	Standing wave ratio	≤ 3.0
3	Return loss	-5dB Max
4	Antenna gain	1500MHZ-1600MHZ:<2.5 dBi
5	Antenna efficiency	35%
6	Polarization direction	Vertical / horizontal
7	Interface type	welding
8	Antenna size	antenna:78*5.45*0.12MM

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3. Antenna passive data S11, ReturnLoss, Smith :



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3. Gain of efficiency

GPS:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
1500	-0.74	35.05
1510	-0.49	37.46
1520	-0.52	37.2
1530	-0.83	36.51
1540	-0.87	36.87
1550	-0.37	38.07
1560	-0.43	38.5
1570	-1.05	36.91
1580	-1.18	37.01
1590	-1.01	36.24
1600	-0.86	35.89

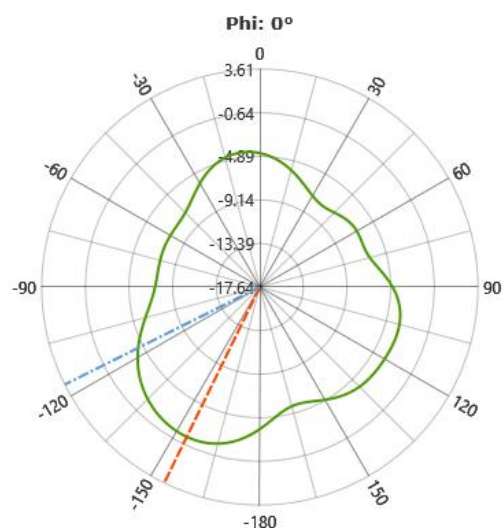
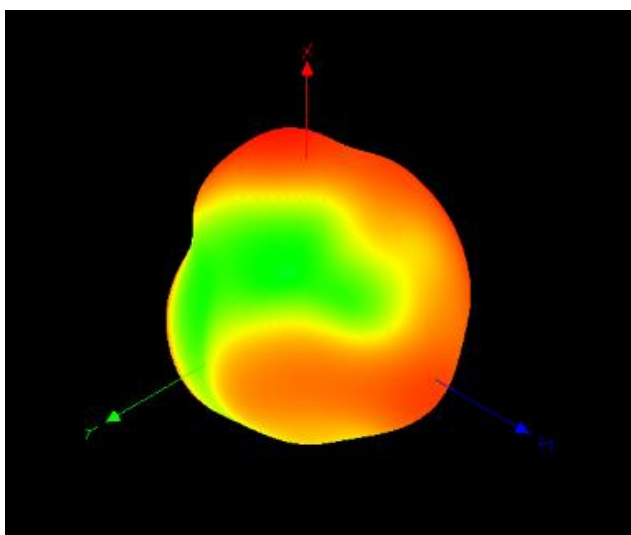
BT:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	-0.11	28.79
2410	0.01	28.82
2420	-0.07	28.11
2430	-0.29	29.12
2440	0.1	31.6
2450	0.4	32.85
2460	0.47	32.34
2470	0.29	32.41
2480	0.44	32.68
2490	0.27	32.18
2500	0.1	31.92

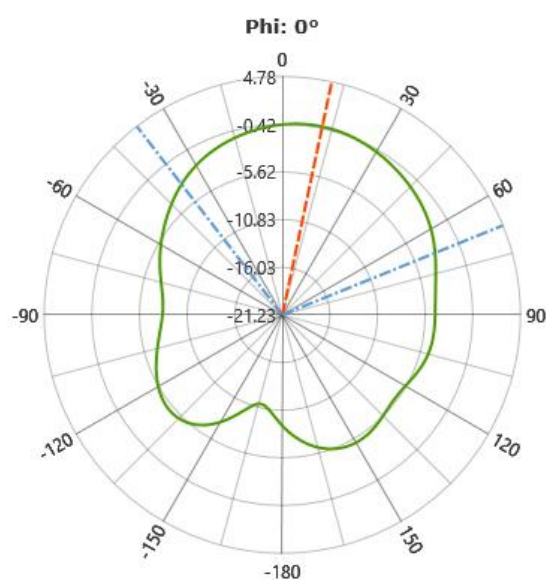
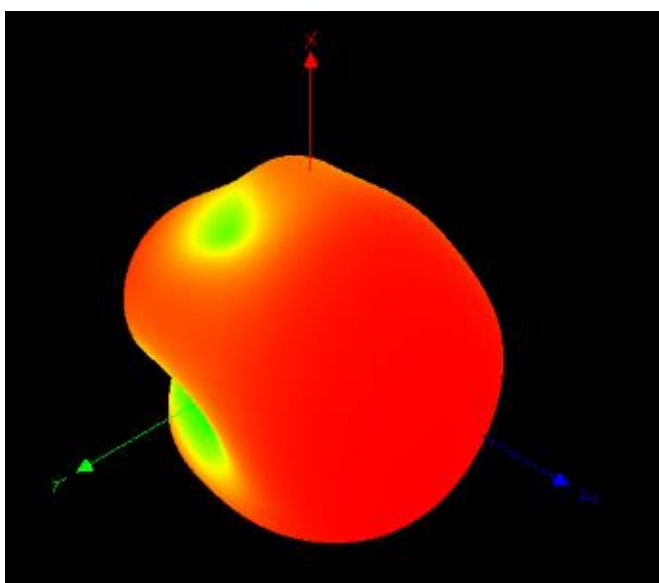
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6. antenna orientation diagram

GPS:

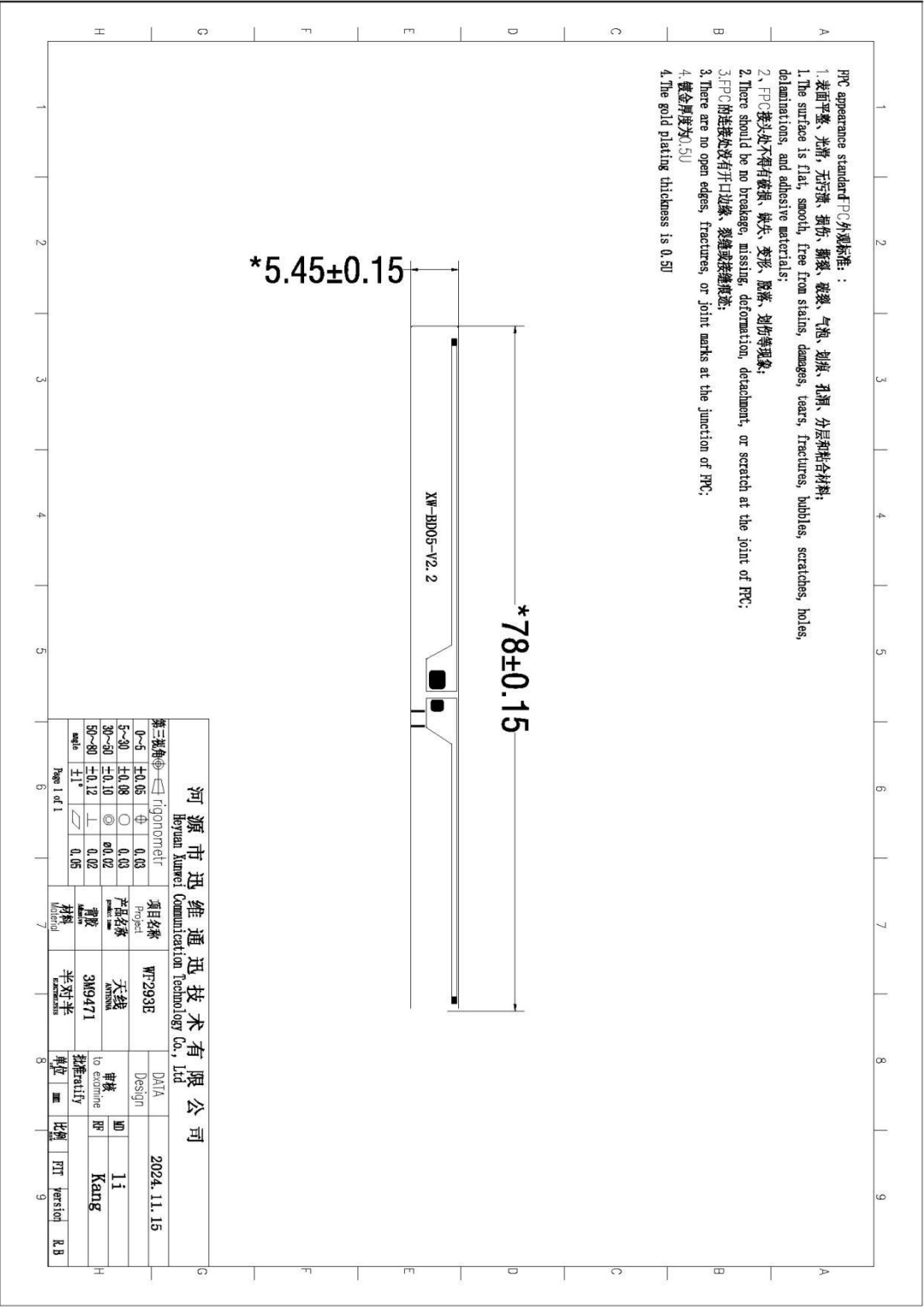


BT:



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7.Antenna drawing: GPS



8. Antenna drawing: BT

