

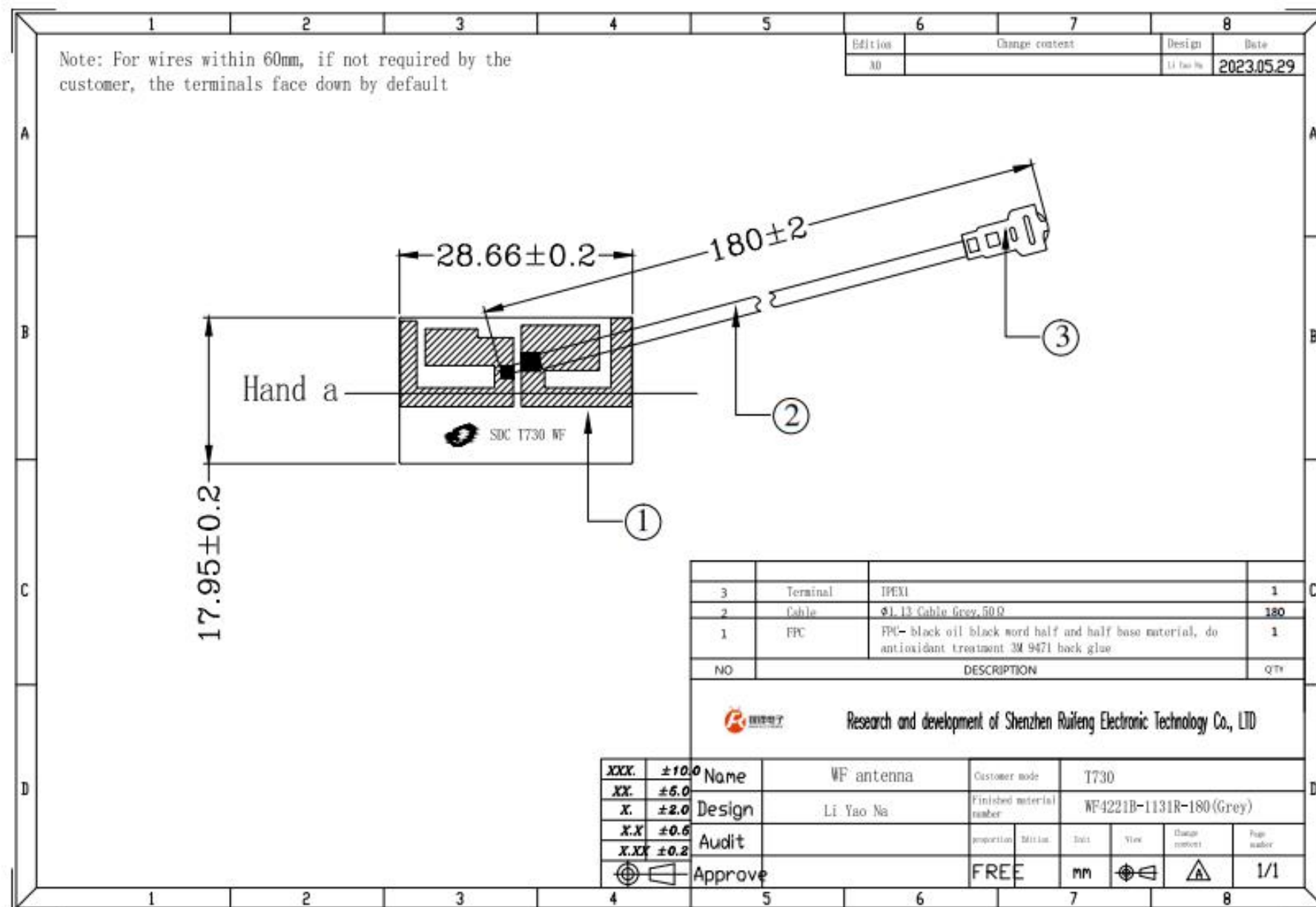
Product Specifications for Approval

Customer name: ValueHD Corporation Model: T730

Antenna frequency band: WIFI 2.4G/5.8G/BT

Revision: R-A

Production date: 2023-01-12



1. Project information and Electrical Specification

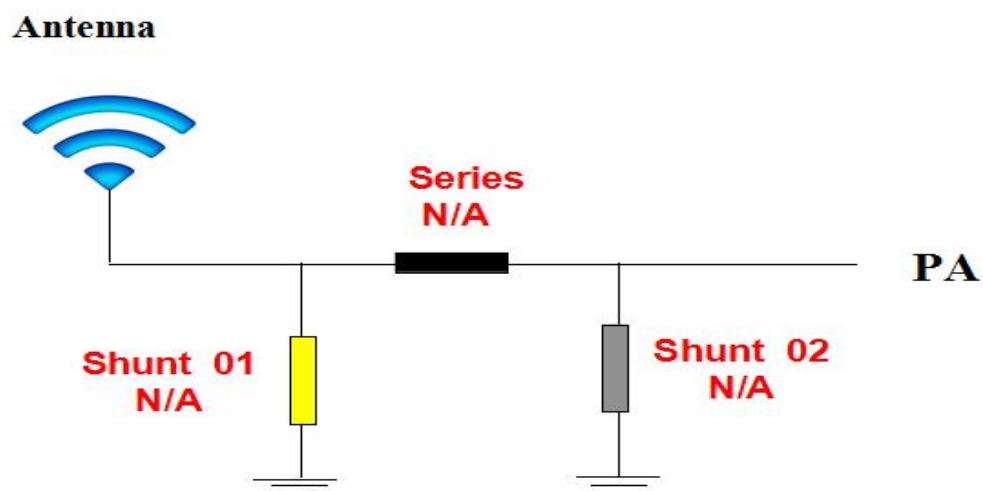
*Those specifications were specially defined for ValueHD Corporation **T730**, **WIFI2.4G/5.8G/BT**, and all characteristics were measured under the model's handset testing jig .*

1-1 Antenna picture (See the drawings from page 2-4)

1-2 Frequency Band:

Frequency Band	MHz
WIFI2. 4G/5. 8G/BT	2400-5850 (MHz)

1-3 Impedance matching



2. VSWR

Measuring Method:

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm. **VSWR parameter value**



MHZ	2400	2450	2500	5150	5350	5550	5750	5850
Ω	35.9	42.6	51.5	67.8	50.2	55.6	54.2	56.4
MHZ	2400	2450	2500	5150	5350	5550	5750	5850
VSWR	1.41	1.19	1.21	1.37	1.17	1.11	1.22	1.13
MHZ	2400	2450	2500	5150	5350	5550	5750	5850
Return loss	-15.25	-21.24	-20.6	-15.97	-21.74	-25.34	-20.01	-24.01

MHZ	2400	2450	2500	5150	5350	5550	5750	5850
Ω	29.48	34.43	46.56	55.31	53.26	47.55	39.5	39.29
MHZ	2400	2450	2500	5150	5350	5550	5750	5850
VSWR	1.78	1.46	1.13	1.1	1.09	1.2	1.23	1.28
MHZ	2400	2450	2500	5150	5350	5550	5750	5850
Return loss	-11.02	-14.69	-24.79	-25.94	-26.78	-20.77	-18.61	-18.17

3. Efficiency and Gain*measuring and test instruments:

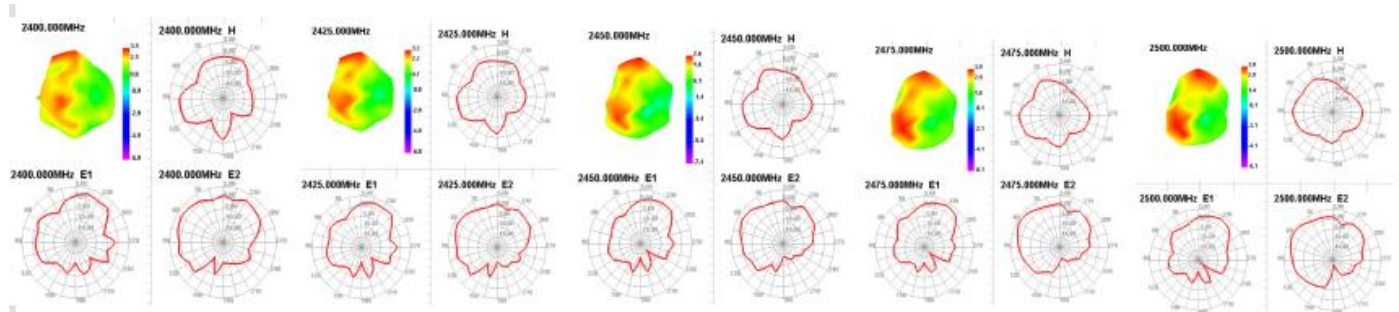
Microwave anechoic chamber, Agilent network analyzer, Agilent spectrum analyzer, 8960 comprehensive tester, standard antenna *test method:

The equipment is fixed on the center of the turntable with the H surface on the same horizontal line as the center of the horn antenna.

WIFI2. 4G/5. 8G/BT

Efficiency/Gain-

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	57.93	-2.37	3.14	0.99	41.66	16.268	3.14	-20.86	5.52	45	48.93	49.09
2425	57.93	-2.37	3.19	1.04	42.882	15.047	3.19	-17.77	5.56	45	49.1	49.23
2450	46.61	-3.32	2.6	0.45	35.563	11.046	2.6	-18.09	5.92	45	49.24	49.26
2475	58.55	-2.32	3.89	1.74	45.782	12.766	3.89	-21.98	6.22	45	49.98	49.91
2500	61.38	-2.12	3.94	1.79	48.037	13.342	3.94	-19.47	6.06	45	49.71	49.62



Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	44.06	-3.56	3.22	1.07	21.838	22.221	3.22	-21.24	6.78	15	61.1	60.72
5250	51.42	-2.89	3.5	1.35	26.132	25.285	3.5	-17.17	6.39	15	61	60.69
5350	46.11	-3.36	2.93	0.78	24.225	21.883	2.93	-25.7	6.29	45	60.61	59.93
5450	58.08	-2.36	4.18	2.03	31.164	26.92	4.18	-15.68	6.54	45	62.77	61.52
5550	51.35	-2.89	3.82	1.67	25.862	25.487	3.82	-19.29	6.71	60	62.14	60.69
5650	55.81	-2.53	3.61	1.46	28.331	27.477	3.61	-30.26	6.15	75	64.09	62.89
5750	53.73	-2.7	3.75	1.6	28.387	25.344	3.75	-17.68	6.44	60	63.14	62.22
5850	61.39	-2.12	4.83	2.68	33.896	27.491	4.83	-21.75	6.95	60	64.81	63.97

