

specification

Customer : 昊一源

Customer P/N:

Part Name: DIRECT CONNECTED EXTERNAL
ANTENNA

HJ P/N: 3D6701BK00-001

Spec Description : DUAL BAND ANTENNA,G67
BLACK,DOUBLE COPPER TUBE,RP-SMA
PLUG+047 CABLE,L=112mm

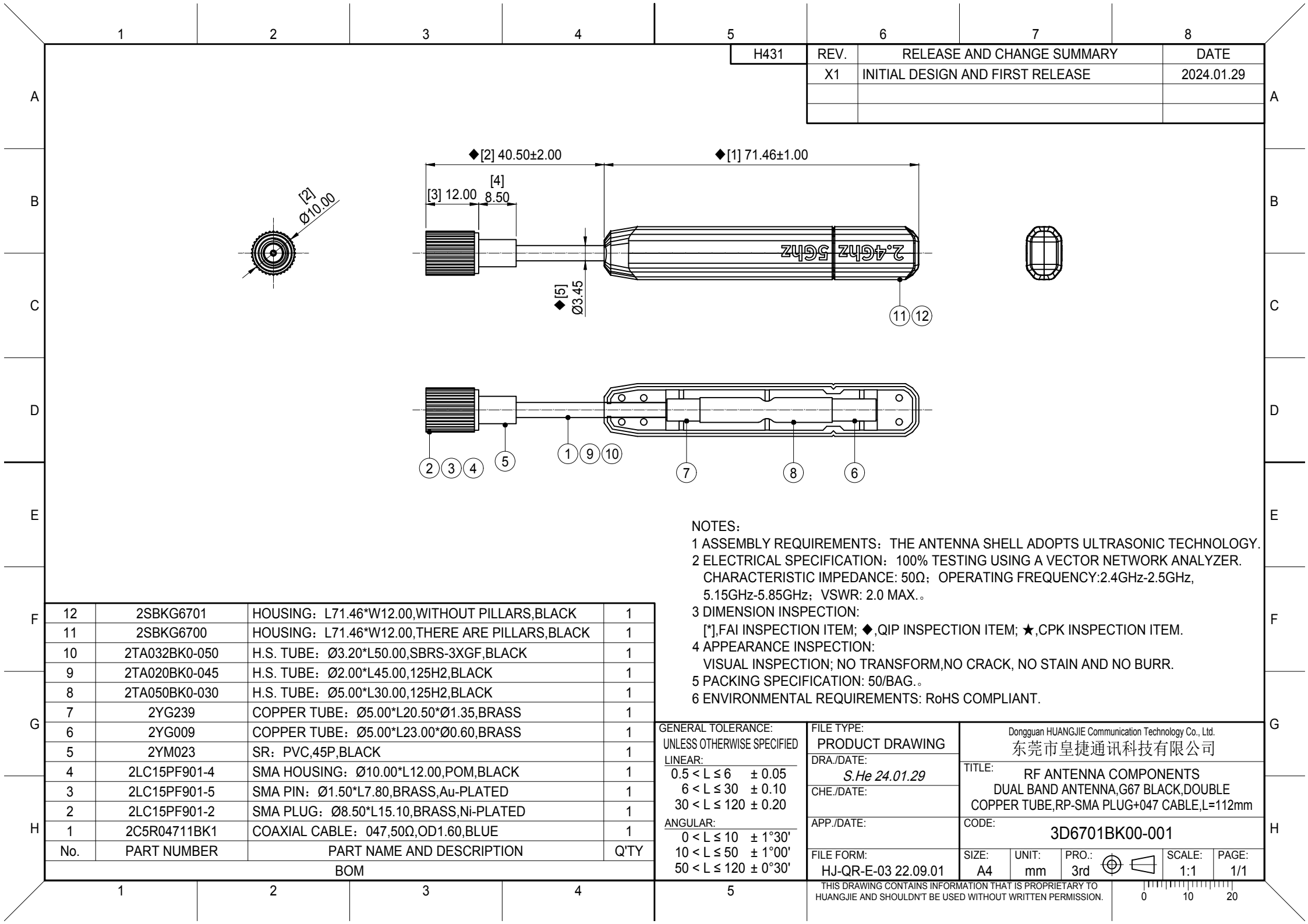
Prepared Date: 2024/2/19

Signature			
Customer		Supplier	
Confirmed by		Prepared by	S.He
Approved by		Checked by	LIU HE
		Approved by	LIU FU YONG

东莞市皇捷通讯科技有限公司

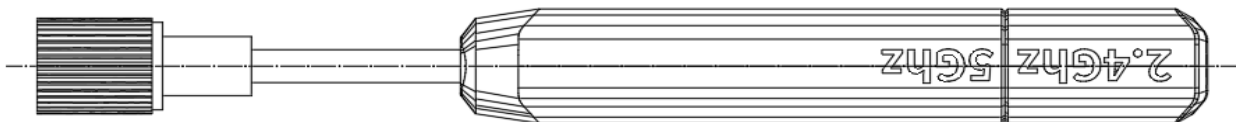
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P/N : 3D6701BK00-001

DESCRIPTION : DUAL BAND ANTENNA,G67 BLACK,DOUBLE COPPER TUBE,RP-SMA PLUG+047
N : CABLE,L=112mm



ELECTRICAL PERFORMANCE

1	NOMINAL IMPEDANCE :	50Ω
2	FREQUENCY RANGE :	2.4~2.5GHz; 5.15~5.85GHz
3	VSWR :	2.4~2.5GHz @ 2.0 MAX.; 5.15~5.85GHz @ 2.0 MAX.
4	GAIN :	2.4~2.5GHz @ 3.78dBi ; 5.15~5.25GHz @ 3.77dBi ; 5.7-5.85GHz@3.32dBi
5	POLARIZATION MODE :	VERTICAL
6	RADIATION DIRECTION :	OMNIDIRECTIONAL

MECHANICAL PROPERTIES

1	ANTENNA SIZE :	OD10*112mm
2	ANTENNA HOUSING :	BLACK
2	ANTENNA CONNECTOR :	RP-SMA PLUG

ENVIRONMENTAL SPECIFICATION

1	OPERATION TEMPERATURE :	-40°C 至 +60°C
2	CORROSION :	SALT WATER DENSITY:(5±1)%,TEMPERATUR:(35±3)°C,48HRS.
3	STORAGE ENVIRONMENT:	TEMPERATURE: -40°C ~ +85°C; HUMIDITY: 20% ~ 75%
4	MEMORY CYCLE :	AT LEAST 6 MONTHS IF CONDITIONS ARE MET.
5	ENVIRONMENTAL :	RoHS COMPLIANT.

DURABILITY SPECIFICATION

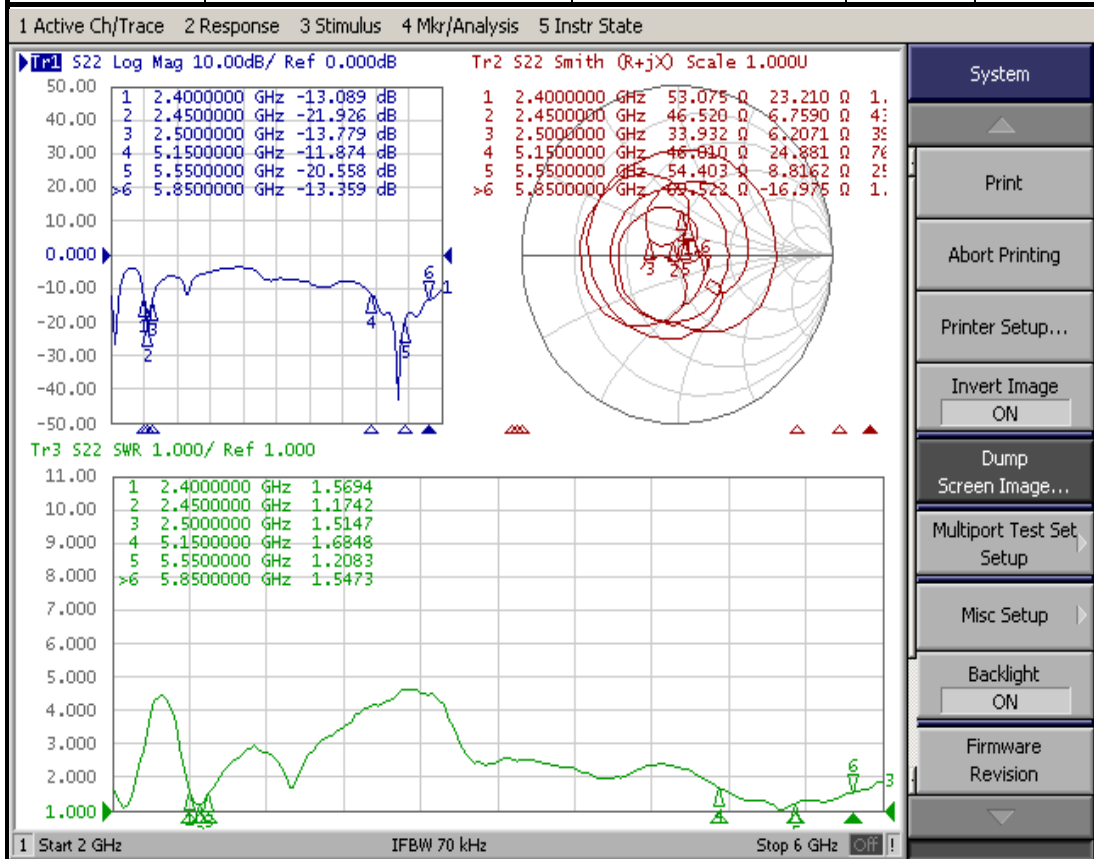
1	DURABILITY :	RP-SMA PLUG: 500 CYCLES
2	SERVICE LIFE :	UNDER THE ABOVE ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL PERFORMANCE CONDITIONS, THE SERVICE LIFE IS 10 YEARS



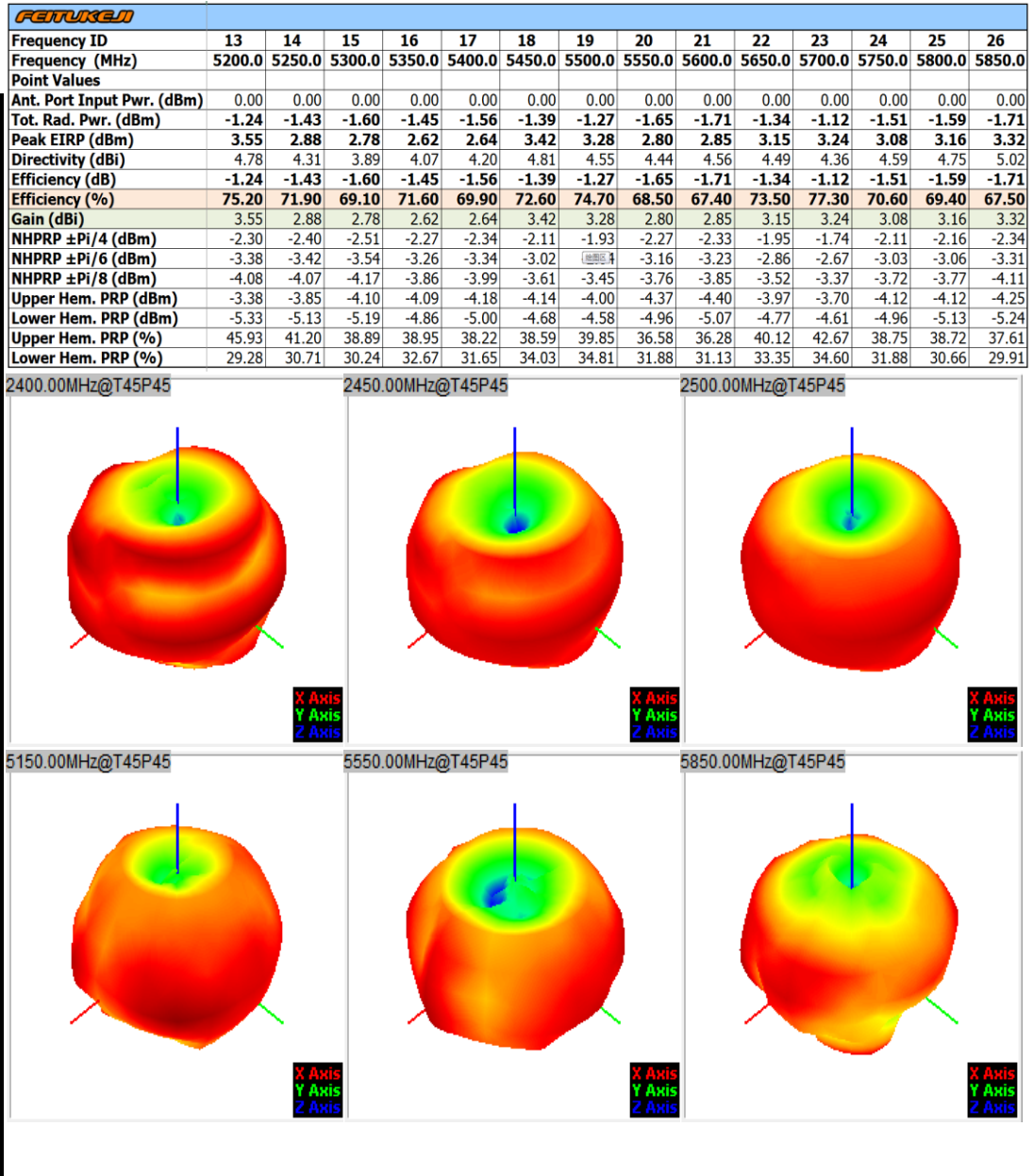
Antenna Electrical Characteristic Test Report

Document number:HJ-QR-Q-22 Rev:A0

Part Number:	3D6701BK00-001	Item	Spec	Judge
Part Name:	DUAL BAND ANTENNA,507 BLACK,DOUBLE COPPER TUBE,RP-SMA PLUG+047 CABLE L=112mm	VSWR	≤2.0	pass
Test Equipment	Network analyzer/ microwave darkroom	Characteristic impedance	50Ω	pass
Q uantity	5pcs			
Test Date	2024/2/19			



Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5200.0	5250.0
Point Values														
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-1.10	-1.03	-1.03	-0.63	-0.53	-0.80	-1.03	-1.07	-0.69	-0.64	-0.77	-1.22	-1.24	-1.43
Peak EIRP (dBm)	2.96	3.24	3.24	3.70	3.78	3.52	3.20	3.07	3.33	3.32	3.10	3.77	3.55	2.88
Directivity (dBi)	4.06	4.26	4.27	4.34	4.31	4.32	4.23	4.13	4.02	3.96	3.87	4.98	4.78	4.31
Efficiency (dB)	-1.10	-1.03	-1.03	-0.63	-0.53	-0.80	-1.03	-1.07	-0.69	-0.64	-0.77	-1.22	-1.24	-1.43
Efficiency (%)	77.70	79.00	78.90	86.40	88.40	83.20	78.90	78.20	85.30	86.20	83.70	75.60	75.20	71.90
Gain (dBi)	2.96	3.24	3.24	3.70	3.78	3.52	3.20	3.07	3.33	3.32	3.10	3.77	3.55	2.88
NHPRP ±Pi/4 (dBm)	-2.25	-2.05	-1.97	-1.49	-1.33	-1.53	-1.71	-1.70	-1.30	-1.22	-1.33	-2.30	-2.30	-2.40
NHPRP ±Pi/6 (dBm)	-3.41	-3.15	-3.02	-2.51	-2.31	-2.48	-2.64	-2.60	-2.19	-2.10	-2.21	-3.45	-3.38	-3.42
NHPRP ±Pi/8 (dBm)	-4.19	-3.92	-3.79	-3.26	-3.06	-3.22	-3.37	-3.33	-2.92	-2.84	-2.96	-4.21	-4.08	-4.07
Upper Hem. PRP (dBm)	-3.47	-3.29	-3.25	-2.79	-2.70	-2.98	-3.24	-3.28	-2.91	-2.81	-2.91	-3.23	-3.38	-3.85
Lower Hem. PRP (dBm)	-4.85	-4.94	-5.00	-4.70	-4.59	-4.84	-5.01	-5.05	-4.67	-4.70	-4.88	-5.51	-5.33	-5.13
Upper Hem. PRP (%)	44.96	46.90	47.32	52.54	53.65	50.38	47.38	46.96	51.18	52.34	51.16	47.50	45.93	41.20
Lower Hem. PRP (%)	32.71	32.06	31.59	33.86	34.76	32.80	31.52	31.26	34.09	33.90	32.51	28.09	29.28	30.71



Checker: XIU HE

Tester:

S.He