

Qingdao Richmat Intelligence Technology Inc SAR COMPLIANCE REPORT

Report Type: FCC SAR assessment report

Model: HJC11

REPORT NUMBER: 2502B1872SHA-002

ISSUE DATE: Apr 2, 2025

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TEST REPORT

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Report no.: 2502B1872SHA-002

Applicant:	Qingdao Richmat Intelligence Technology Inc NO.78 Kongquehe 4th Road, Qingdao Clothing Industry park, Jimo, Qingdao, Shandong Province, China.
Manufacturer:	Qingdao Richmat Intelligence Technology Inc NO.78 Kongquehe 4th Road, Qingdao Clothing Industry park, Jimo, Qingdao, Shandong Province, China.

FCC ID: 2AJJGHJC11

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification: KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

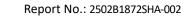
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Revision History

Report No.	Version	Issued Date	
2502B1872SHA-002	Rev. 01	Initial issue of report	Apr 2, 2025

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1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	control box
Type/Model:	HJC11
	The EUT is control box that contains classic BT function. The worst data
Description of EUT:	is listed in the report.
Rating:	DC 24-30V
EUT type:	Table top 🔲 Floor standing
Software Version:	(P1)BKZQ(S)A3(V0.10)-250115
Hardware Version:	(P1)BKZQ(H)A20(V0.13)-241217
Sample No.:	A250226-75-001
Sample received date:	Mar 12, 2025
Date of test:	Mar 12~26, 2025

1.2 Technical Specification

Frequency Range:	2402MHz ~ 2480MHz
Support Standards:	Bluetooth 5.0 (BR+EDR)
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, π/4 DQPSK, 8DPSK
Channel Number:	79 (0 - 78)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Channel Separation:	1 MHz
Antenna:	1.71dBi, PCB antenna(Declared by manufacturer)



1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized,	CNAS Accreditation Lab Registration No. CNAS L21189					
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN0175					
organizations.	IC Registration Lab CAB identifier.: CN0014					
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252					
	A2LA Accreditation Lab Certificate Number: 3309.02					

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2 SAR Assessment

Test result: Pass

2.1 SAR Test Exclusion Limit

100 MHz – 6 GHz and \leq 50 mm

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300						
	164	192	219	246	274	
450	164 134	192 157	219 179	246 201	274 224	
450 835						
	134	157	179	201	224	
835	134 98	157 115	179 131	201 148	224 164	SAR Test Fxclusion
835 900	134 98 95	157 115 111	179 131 126	201 148 142	224 164 158	Exclusion
835 900 1500	134 98 95 73	157 115 111 86	179 131 126 98	201 148 142 110	224 164 158 122	
835 900 1500 1900	134 98 95 73 65	157 115 111 86 76	179 131 126 98 87	201 148 142 110 98	224 164 158 122 109	Exclusion
835 900 1500 1900 2450	134 98 95 73 65 57	157 115 111 86 76 67	179 131 126 98 87 77	201 148 142 110 98 86	224 164 158 122 109 96	Exclusion
835 900 1500 1900 2450 3600	134 98 95 73 65 57 47	157 115 111 86 76 67 55	179 131 126 98 87 77 63	201 148 142 110 98 86 71	224 164 158 122 109 96 79	Exclusion

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100 MHz – 6 GHz and > 50 mm

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	
150	387	397	407	417	427	437	447	457	467	477	487	497	507	517	527	
300	274	294	314	334	354	374	394	414	434	454	474	494	514	534	554	
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	
835	164	220	275	331	387	442	498	554	609	665	721	776	832	888	943	
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	
1500	122	222	322	422	522	622	722	822	922	1022	1122	1222	1322	1422	1522	mW
1900	109	209	309	409	509	609	709	809	909	1009	1109	1209	1309	1409	1509	
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	
3600	79	179	279	379	479	579	679	779	879	979	1079	1179	1279	1379	1479	
5200	66	166	266	366	466	566	666	766	866	966	1066	1166	1266	1366	1466	
5400	65	165	265	365	465	565	665	765	865	965	1065	1165	1265	1365	1465	
5800	62	162	262	362	462	562	662	762	862	962	1062	1162	1262	1362	1462	

< 100 MHz and < 200 mm

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	mW
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

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2.2 Assessment Results

The highest PK EIRP adjusted with tune-up tolerance is 1.51dBm = 1.42mW < <u>10mW (Test Exclusion Thresholds of 2450MHz at 5mm)</u>. Therefore, the SAR requirement is deemed to be satisfied without test.