

# TEST REPORT

**Product** : HANDSET  
**Trade mark** : Richmat  
**Model/Type reference** : HJH124 Ble, HJH55 Ble  
**Serial Number** : N/A  
**Report Number** : EED32N80428801  
**FCC ID** : 2AJJGHJBLE  
**Date of Issue** : Jun. 09, 2021  
**Test Standards** : 47 CFR Part 15 Subpart C  
**Test result** : PASS

Prepared for:

**Qingdao Richmat Intelligence Technology Inc**  
**NO. 78 Kongquehe 4th Road Qingdao**  
**Clothing Industry park Jimo, Qingdao,**  
**Shandong Province 266000, China**

Prepared by:

**Centre Testing International Group Co., Ltd.**  
**Hongwei Industrial Zone, Bao'an 70 District,**  
**Shenzhen, Guangdong, China**  
**TEL: +86-755-3368 3668**  
**FAX: +86-755-3368 3385**



Compiled by:

*Martin Lee*

Reviewed by:

*Aaron Ma*

Approved by:

*David Wang*

Date:

Aaron Ma

Jun. 09, 2021

David Wang

Check No.:3011010621

Version No.	Date	Description
00	Jun. 09, 2021	Original

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	Note <sup>1</sup>
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	N/A
<b>Field Strength of the Fundamental Signal</b>	47 CFR Part 15 Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
<b>Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.249 (a)/15.209	ANSI C63.10-2013	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15 Subpart C Section 15.249(a)/15.205	ANSI C63.10-2013	Note <sup>1</sup>
<b>20dB Occupied Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.215 (c)	ANSI C63.10-2013	Note <sup>1</sup>

Remark:

N/A: The EUT powered by AA battery, So Not Applicable

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Note<sup>1</sup>: All test data refer to FCC ID:2AJJGHJ8258 and it was come from the report of No. 181101746SHA-001, the report modified the product name.

	<b>Page</b>
<b>1 VERSION</b> .....	<b>2</b>
<b>2 TEST SUMMARY</b> .....	<b>3</b>
<b>3 CONTENTS</b> .....	<b>4</b>
<b>4 GENERAL INFORMATION</b> .....	<b>5</b>
4.1 CLIENT INFORMATION.....	5
4.2 GENERAL DESCRIPTION OF EUT.....	5
TEST ENVIRONMENT AND MODE.....	7
4.3 DESCRIPTION OF SUPPORT UNITS.....	8
4.4 TEST LOCATION.....	8
4.5 DEVIATION FROM STANDARDS.....	8
4.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	8
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	8
4.8 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2).....	8
<b>5 EQUIPMENT LIST</b> .....	<b>9</b>
<b>6 TEST RESULTS AND MEASUREMENT DATA</b> .....	<b>11</b>
6.1 RADIATED SPURIOUS EMISSIONS.....	11
<b>APPENDIX 1 PHOTOGRAPHS OF TEST SETUP</b> .....	<b>21</b>
<b>APPENDIX 2 PHOTOGRAPHS OF EUT</b> .....	<b>23</b>

## 4 General Information

### 4.1 Client Information

Applicant:	Qingdao Richmat Intelligence Technology Inc
Address of Applicant:	NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong Province 266000, China
Manufacturer:	Qingdao Richmat Intelligence Technology Inc
Address of Manufacturer:	NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong Province 266000, China
Factory:	Qingdao Richmat Intelligence Technology Inc
Address of Factory:	NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong Province 266000, China

### 4.2 General Description of EUT

Product Name:	HANDSET
Model No.:	HJH124 Ble, HJH55 Ble
Trade Mark:	Richmat
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channel:	40
Antenna Type:	PCB antenna
Antenna Gain:	3.0dBi
Power Supply:	2*AAA battery
Test Voltage:	DC 3V
Sample Received Date:	June 1, 2021
Sample tested Date:	June 1, 2021 to June 4, 2021

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz

**Test Environment and Mode**

<b>Operating Environment:</b>			
<b>Radiated Spurious Emissions:</b>			
Temperature:	22~25.0 °C		
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
<b>RF Conducted:</b>			
Temperature:	22~25.0 °C		
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
<b>Test mode:</b>			
Test Mode	Modulation	Channel	Frequency(MHz)
Mode a	GFSK	CH0	2402
Mode b	GFSK	CH19	2440
Mode c	GFSK	CH39	2480

### 4.3 Description of Support Units

The EUT has been tested independently.

### 4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

### 4.5 Deviation from Standards

None.

### 4.6 Abnormalities from Standard Conditions

None.

### 4.7 Other Information Requested by the Customer

None.

### 4.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%



## 5 Equipment List

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2021	05-15-2022
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
Receiver	R&S	ESC17	100938-003	10-16-2020	10-15-2021
Multi device Controller	matur	NCD/070/10711 112	---	---	---
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020	06-28-2021
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020	12-30-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

## 6 Test results and Measurement Data

### 6.1 Radiated Spurious Emissions

**Test Requirement:** 47 CFR Part 15C Section 15.249 and 15.209 and 15.205

**Test Method:** ANSI C63.10

**Test Site:** Measurement Distance: 3m (Semi-Anechoic Chamber)

**Receiver Setup:**

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10kHz	Average

**Limit:**  
(Spurious Emissions)

Frequency	Field strength (microvolt/meter)	Limit (dB $\mu$ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

**Limit:**  
(Field strength of the fundamental signal)

Frequency	Limit (dB $\mu$ V/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

**Test Setup:**

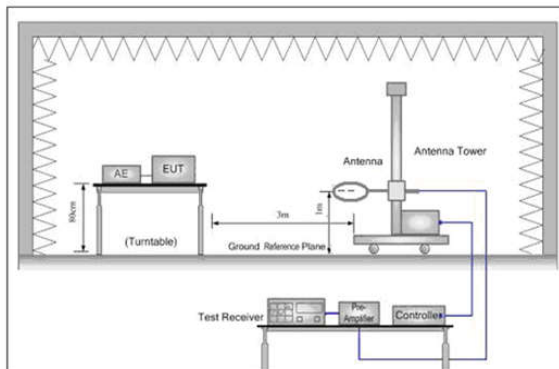


Figure 1. Below 30MHz

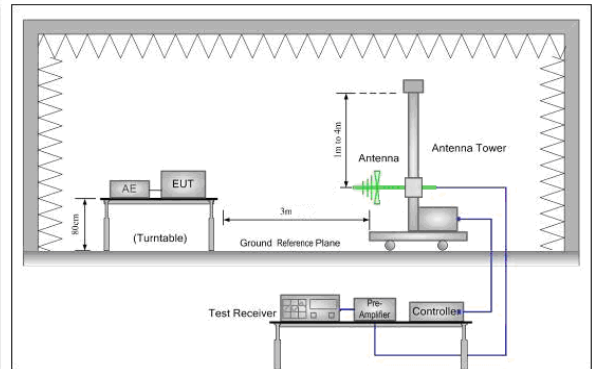


Figure 2. 30MHz to 1GHz

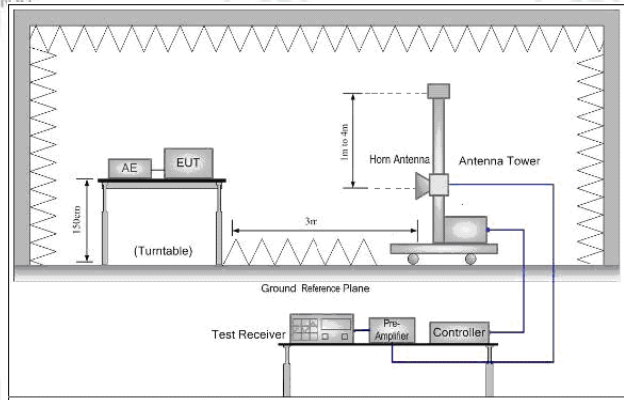


Figure 3. Above 1GHz

**Test Procedure:**

**Below 1GHz test procedure as below:**

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

**Above 1GHz test procedure as below:**

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).

Test the EUT in the lowest channel ,middle channel, the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

**Exploratory Test Mode:**

Transmitting mode

**Test Results:**

Pass

**Measurement Data**

**Field Strength Of The Fundamental Signal:**

**Model No.: HJH124 Ble**

Frequency (MHz)	Factor [dB]	Reading [dB $\mu$ V]	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin [dB]	Over Limit (dB)	Antenna Polaxis	Remark
2402	17.34	76.27	93.61	114.00	20.39	Pass	H	PK
2402	17.34	70.41	87.75	114.00	26.25	Pass	V	PK
2440	22.09	71.76	93.85	114.00	20.15	Pass	H	PK
2440	22.09	65.38	87.47	114.00	26.53	Pass	V	PK
2480	20.85	72.3	93.15	114.00	20.85	Pass	H	PK
2480	20.85	66.54	87.39	114.00	26.61	Pass	V	PK

**Model No.: HJH55 Ble**

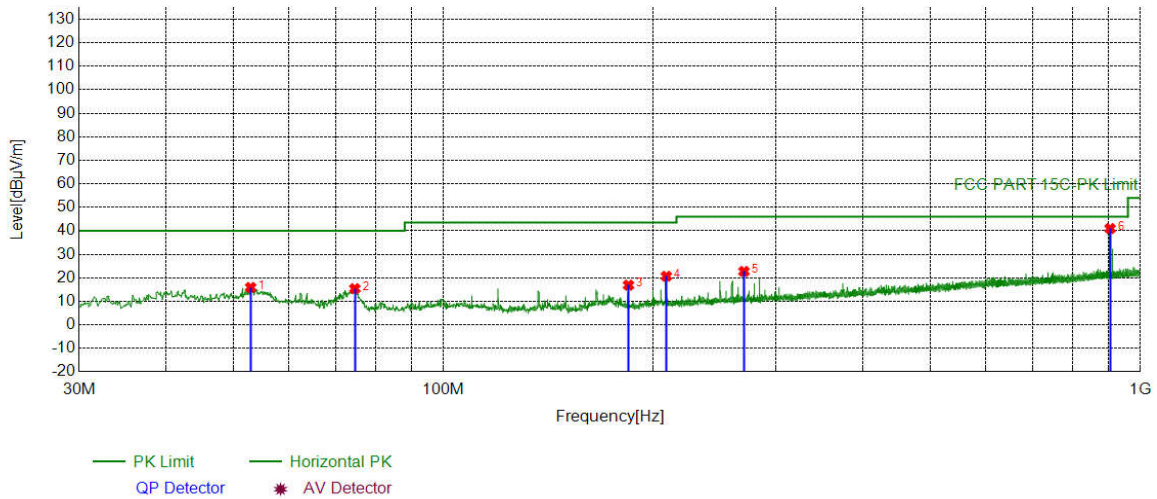
Frequency (MHz)	Factor [dB]	Reading [dB $\mu$ V]	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin [dB]	Over Limit (dB)	Antenna Polaxis	Remark
2402	17.34	76.21	93.55	114.00	20.45	Pass	H	PK
2402	17.34	69.81	87.15	114.00	26.85	Pass	V	PK
2440	22.09	71.65	93.74	114.00	20.26	Pass	H	PK
2440	22.09	65.44	87.53	114.00	26.47	Pass	V	PK
2480	20.85	72.8	93.65	114.00	20.35	Pass	H	PK
2480	20.85	66.32	87.17	114.00	26.83	Pass	V	PK

### Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode was recorded in the report.

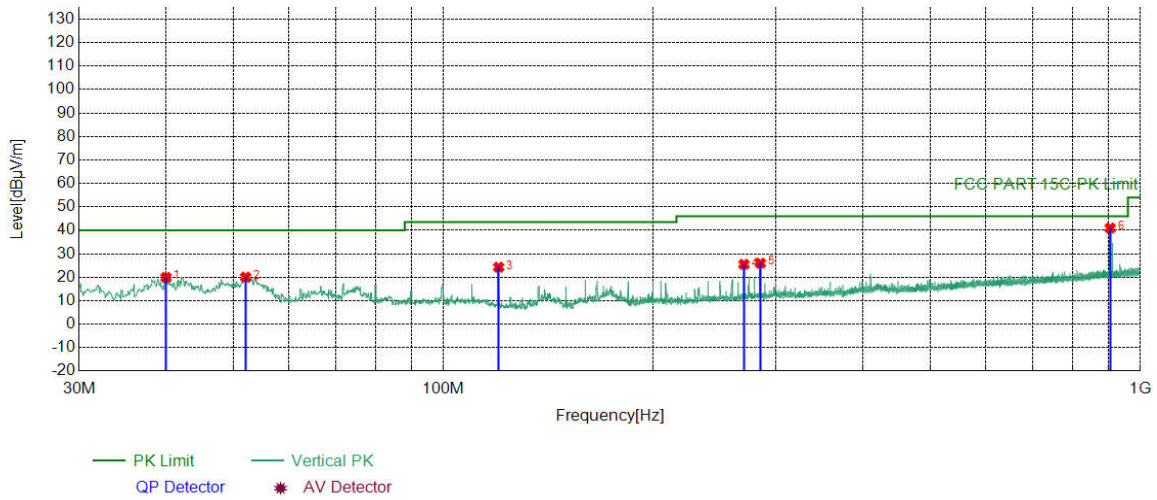
Model No.: HJH124 Ble

#### Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	52.8943	-17.56	33.48	15.92	40.00	24.08	PASS	Horizontal	PK
2	74.6245	-21.62	37.02	15.40	40.00	24.60	PASS	Horizontal	PK
3	184.342	-19.36	36.25	16.89	43.50	26.61	PASS	Horizontal	PK
4	208.885	-17.63	38.31	20.68	43.50	22.82	PASS	Horizontal	PK
5	270.002	-16.15	38.88	22.73	46.00	23.27	PASS	Horizontal	PK
6	905.221	-4.94	45.92	40.98	46.00	5.02	PASS	Horizontal	PK

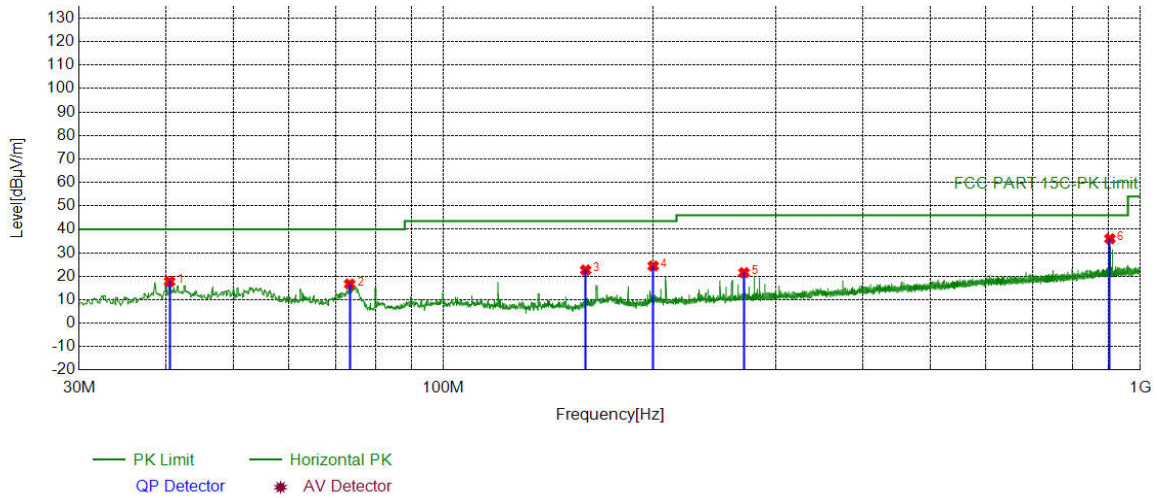
Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	39.9920	-18.03	37.94	19.91	40.00	20.09	PASS	Vertical	Peak
2	52.0212	-17.44	37.50	20.06	40.00	19.94	PASS	Vertical	Peak
3	120.0250	-20.08	44.37	24.29	43.50	19.21	PASS	Vertical	Peak
4	270.0020	-16.15	41.67	25.52	46.00	20.48	PASS	Vertical	Peak
5	285.0385	-15.83	41.83	26.00	46.00	20.00	PASS	Vertical	Peak
6	905.3185	-4.94	45.92	40.98	46.00	5.02	PASS	Vertical	Peak

Model No.: HJH55 Ble

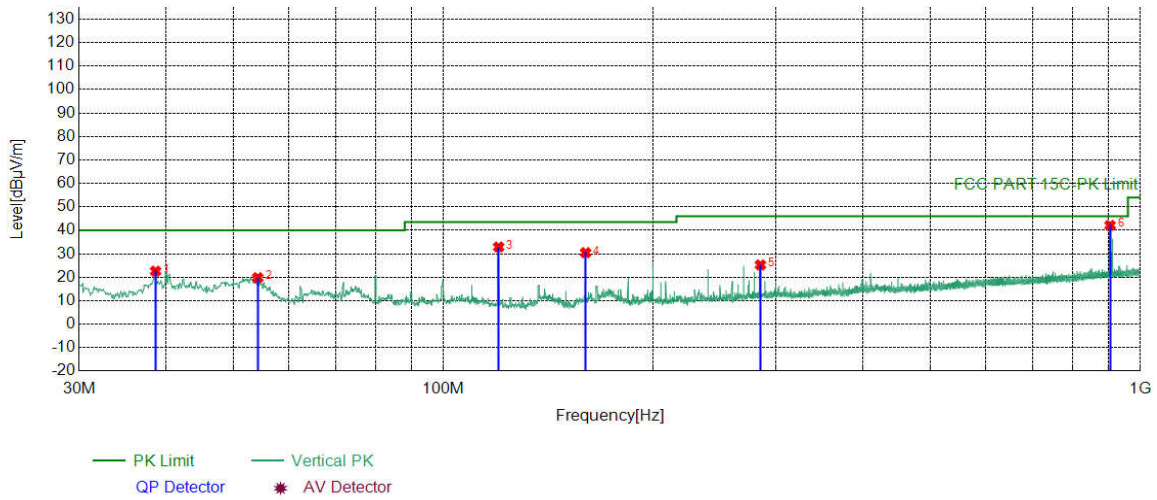
Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	40.4770	-17.95	35.70	17.75	40.00	22.25	PASS	Horizontal	PK
2	73.3633	-21.39	38.07	16.68	40.00	23.32	PASS	Horizontal	PK
3	159.993	-21.15	43.80	22.65	43.50	20.85	PASS	Horizontal	PK
4	200.058	-17.84	42.23	24.39	43.50	19.11	PASS	Horizontal	PK
5	270.002	-16.15	37.69	21.54	46.00	24.46	PASS	Horizontal	PK
6	904.639	-4.94	40.94	36.00	46.00	10.00	PASS	Horizontal	PK



Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	38.6339	-18.46	41.07	22.61	40.00	17.39	PASS	Vertical	Peak
2	54.1554	-17.72	37.53	19.81	40.00	20.19	PASS	Vertical	Peak
3	120.0250	-20.08	52.98	32.90	43.50	10.60	PASS	Vertical	Peak
4	159.9930	-21.15	51.62	30.47	43.50	13.03	PASS	Vertical	Peak
5	285.0385	-15.83	41.09	25.26	46.00	20.74	PASS	Vertical	Peak
6	905.2215	-4.94	47.06	42.12	46.00	3.88	PASS	Vertical	Peak

**Radiated Spurious Emission above 1GHz:**

**Model No.: HJH124 Ble**

Mode:		GFSK Transmitting				Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2062.9063	4.76	40.88	45.64	74.00	28.36	Pass	H	PK
2	4618.1079	-16.68	56.62	39.94	74.00	34.06	Pass	H	PK
3	7515.3010	-11.11	53.96	42.85	74.00	31.15	Pass	H	PK
4	9855.4570	-7.21	52.02	44.81	74.00	29.19	Pass	H	PK
5	14392.7595	1.10	48.69	49.79	74.00	24.21	Pass	H	PK
6	16419.8947	-0.02	52.33	52.31	74.00	21.69	Pass	H	PK
7	2135.7136	4.49	40.73	45.22	74.00	28.78	Pass	V	PK
8	4966.1311	-15.95	56.06	40.11	74.00	33.89	Pass	V	PK
9	7519.3013	-11.12	53.91	42.79	74.00	31.21	Pass	V	PK
10	9940.4627	-7.13	51.51	44.38	74.00	29.62	Pass	V	PK
11	14394.7597	1.13	49.06	50.19	74.00	23.81	Pass	V	PK
12	16279.8853	1.56	50.59	52.15	74.00	21.85	Pass	V	PK

Mode:		GFSK Transmitting				Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2073.7074	4.79	40.90	45.69	74.00	28.31	Pass	H	PK
2	4703.1135	-16.57	56.05	39.48	74.00	34.52	Pass	H	PK
3	7453.2969	-11.29	53.90	42.61	74.00	31.39	Pass	H	PK
4	9857.4572	-7.20	52.65	45.45	74.00	28.55	Pass	H	PK
5	11906.5938	-5.79	54.02	48.23	74.00	25.77	Pass	H	PK
6	16492.8995	1.61	51.04	52.65	74.00	21.35	Pass	H	PK
7	2103.5104	4.84	41.47	46.31	74.00	27.69	Pass	V	PK
8	4752.1168	-16.40	55.75	39.35	74.00	34.65	Pass	V	PK
9	7433.2956	-11.37	54.02	42.65	74.00	31.35	Pass	V	PK
10	9507.4338	-8.20	53.29	45.09	74.00	28.91	Pass	V	PK
11	14377.7585	0.85	49.02	49.87	74.00	24.13	Pass	V	PK
12	16326.8885	1.14	50.53	51.67	74.00	22.33	Pass	V	PK

Mode:		GFSK Transmitting				Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2104.1104	4.84	40.90	45.74	74.00	28.26	Pass	H	PK
2	4827.1218	-16.22	55.21	38.99	74.00	35.01	Pass	H	PK
3	7057.2705	-11.68	54.49	42.81	74.00	31.19	Pass	H	PK
4	9843.4562	-7.25	52.13	44.88	74.00	29.12	Pass	H	PK
5	14367.7579	0.68	48.81	49.49	74.00	24.51	Pass	H	PK
6	16494.8997	1.66	50.63	52.29	74.00	21.71	Pass	H	PK
7	2104.1104	4.84	40.90	45.74	74.00	28.26	Pass	V	PK
8	4827.1218	-16.22	55.21	38.99	74.00	35.01	Pass	V	PK
9	7057.2705	-11.68	54.49	42.81	74.00	31.19	Pass	V	PK
10	9843.4562	-7.25	52.13	44.88	74.00	29.12	Pass	V	PK
11	14367.7579	0.68	48.81	49.49	74.00	24.51	Pass	V	PK
12	16494.8997	1.66	50.63	52.29	74.00	21.71	Pass	V	PK

**Model No.: HJH55 Ble**

Mode:		GFSK Transmitting				Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2048.9049	4.71	40.90	45.61	74.00	28.39	Pass	H	PK
2	4812.1208	-16.23	55.69	39.46	74.00	34.54	Pass	H	PK
3	7319.2880	-11.66	55.40	43.74	74.00	30.26	Pass	H	PK
4	14387.7592	1.02	49.31	50.33	74.00	23.67	Pass	H	PK
5	16216.8811	1.03	51.05	52.08	74.00	21.92	Pass	H	PK
6	2048.9049	4.71	40.90	45.61	74.00	28.39	Pass	H	PK
7	2049.1049	4.71	40.89	45.60	74.00	28.40	Pass	V	PK
8	4744.1163	-16.43	56.28	39.85	74.00	34.15	Pass	V	PK
9	7195.2797	-11.83	54.84	43.01	74.00	30.99	Pass	V	PK
10	9276.4184	-7.93	53.71	45.78	74.00	28.22	Pass	V	PK
11	12477.6318	-4.80	53.01	48.21	74.00	25.79	Pass	V	PK
12	16423.8949	0.07	52.62	52.69	74.00	21.31	Pass	V	PK

Mode:			GFSK Transmitting			Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2052.9053	4.72	40.94	45.66	74.00	28.34	Pass	H	PK
2	4841.1227	-16.22	55.46	39.24	74.00	34.76	Pass	H	PK
3	7291.2861	-11.70	54.63	42.93	74.00	31.07	Pass	H	PK
4	9266.4178	-7.93	52.78	44.85	74.00	29.15	Pass	H	PK
5	12572.6382	-4.31	53.80	49.49	74.00	24.51	Pass	H	PK
6	16508.9006	1.73	50.33	52.06	74.00	21.94	Pass	H	PK
7	2048.9049	4.71	41.25	45.96	74.00	28.04	Pass	V	PK
8	4800.1200	-16.23	55.32	39.09	74.00	34.91	Pass	V	PK
9	7193.2796	-11.82	54.75	42.93	74.00	31.07	Pass	V	PK
10	9269.4180	-7.93	52.75	44.82	74.00	29.18	Pass	V	PK
11	12594.6396	-4.15	51.91	47.76	74.00	26.24	Pass	V	PK
12	16410.8941	-0.23	51.90	51.67	74.00	22.33	Pass	V	PK

Mode:			GFSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2061.7062	4.75	41.21	45.96	74.00	28.04	Pass	H	PK
2	4685.1123	-16.60	55.70	39.10	74.00	34.90	Pass	H	PK
3	7377.2918	-11.55	54.15	42.60	74.00	31.40	Pass	H	PK
4	9359.4240	-7.97	53.42	45.45	74.00	28.55	Pass	H	PK
5	14375.7584	0.82	49.05	49.87	74.00	24.13	Pass	H	PK
6	16414.8943	-0.14	52.31	52.17	74.00	21.83	Pass	H	PK
7	2108.1108	4.79	40.81	45.60	74.00	28.40	Pass	V	PK
8	4756.1171	-16.38	55.62	39.24	74.00	34.76	Pass	V	PK
9	7444.2963	-11.32	53.95	42.63	74.00	31.37	Pass	V	PK
10	9785.4524	-7.43	52.16	44.73	74.00	29.27	Pass	V	PK
11	14392.7595	1.10	48.40	49.50	74.00	24.50	Pass	V	PK
12	16901.9268	3.10	49.41	52.51	74.00	21.49	Pass	V	PK

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Factor  
Factor = Antenna Factor + Cable Factor – Preamplifier Factor
- Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.