

TEST REPORT

Product : Single mode Bluetooth(5.0) Module
Trade mark : Richmat
Model/Type reference : HJ8258
Serial Model : /
Report Number : EED32P81585301
FCC ID : 2AJJGHJ8258
Date of Issue : October 9, 2023

Prepared for:

Qingdao Richmat Intelligence Technology Inc
NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo,
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October 9, 2023



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2 Content

1 COVER PAGE1

2 CONTENT.....2

3 VERSION3

4 TEST SUMMARY4

5 GENERAL INFORMATION5

5.1 CLIENT INFORMATION5

5.2 GENERAL DESCRIPTION OF EUT5

5.3 TESTED SYSTEM DETAILS6

5.4 TEST ENVIRONMENT6

5.5 DESCRIPTION OF SUPPORT UNITS6

5.6 TEST LOCATION6

5.7 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)7

6 EQUIPMENT LIST8

7 TEST RESULTS AND MEASUREMENT DATA10

7.1 RADIATED SPURIOUS EMISSION & RESTRICTED BANDS10

3 Version

Version No.	Date	Description
00	October 9, 2023	Original

4 Test Summary

Test item	Test Requirement	Test method	Result
Antenna Requirement*	47 CFR Part 15Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission*	47 CFR Part 15Subpart C Section 15.207	ANSI C63.10-2013	N/A
Maximum conducted output power*	47 CFR Part 15Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
DTS Bandwidth*	47 CFR Part 15Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
Maximum Power Spectral Density*	47 CFR Part 15Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions*	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions*	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

1. The product is supplied by DC power.
2. Test according to ANSI C63.4-2014 & ANSI C63.10-2013.
3. Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
4. “*” Detailed test results, please reference reported EED32M00310701

5 General Information

5.1 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

5.2 General Description of EUT

Product Name:	Single mode Bluetooth(5.0) Module
Model No.(EUT)*:	HJ8258
Trade Mark:	Richmat
EUT Supports Radios application:	Bluetooth V5.0 BLE
Power Supply:	Model No: ZB-H290020-B Input: AC100-240V 1.6A, 50/60Hz Output: DC 29.0V 2.0A 58W
Sample Received Date:	2023.10.07
Sample Tested Date:	2023.10.08~2023.10.09
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BLE 5.0
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Mobile production
Test Software of EUT:	EMI Tool (manufacturer declare)
Antenna Type:	PCB Antenna
Antenna Gain:	5.3dBi
Test Voltage:	AC 120V/60Hz

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

5.3 Tested System Details

Product	Manufacturer	Model No.
handset	Ríchmat	Model Name.: HJSR81 Ble, HJSR81B Ble, HJSR81C Ble, HJSR81D Ble, HJSR81E Ble, HJSR77 Ble, HJSR77B Ble, HJSR77C Ble, HJSR32 Ble, HJSR32B Ble, HJSR32C Ble, HJSR79 Ble
They all use the same PCB. The circuit design, layout, components and wiring are identical, but the number of backlights used is different.		

5.4 Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~56 % RH
Atmospheric Pressure:	1010mbar

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	DELL	Latitude 3490	FCC&CE	CTI

5.6 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

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
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%

6 Equipment List

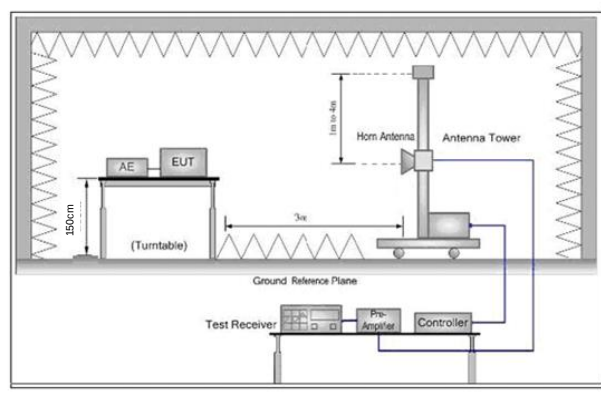
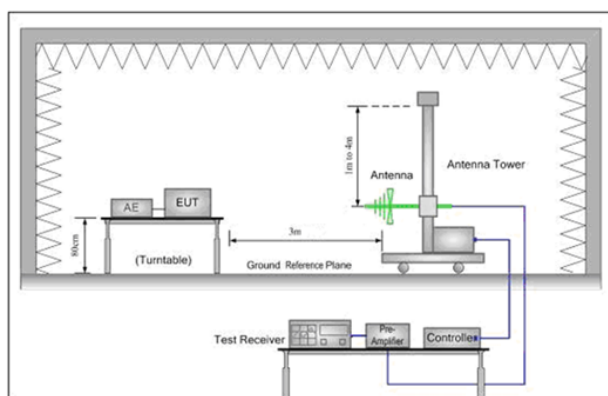
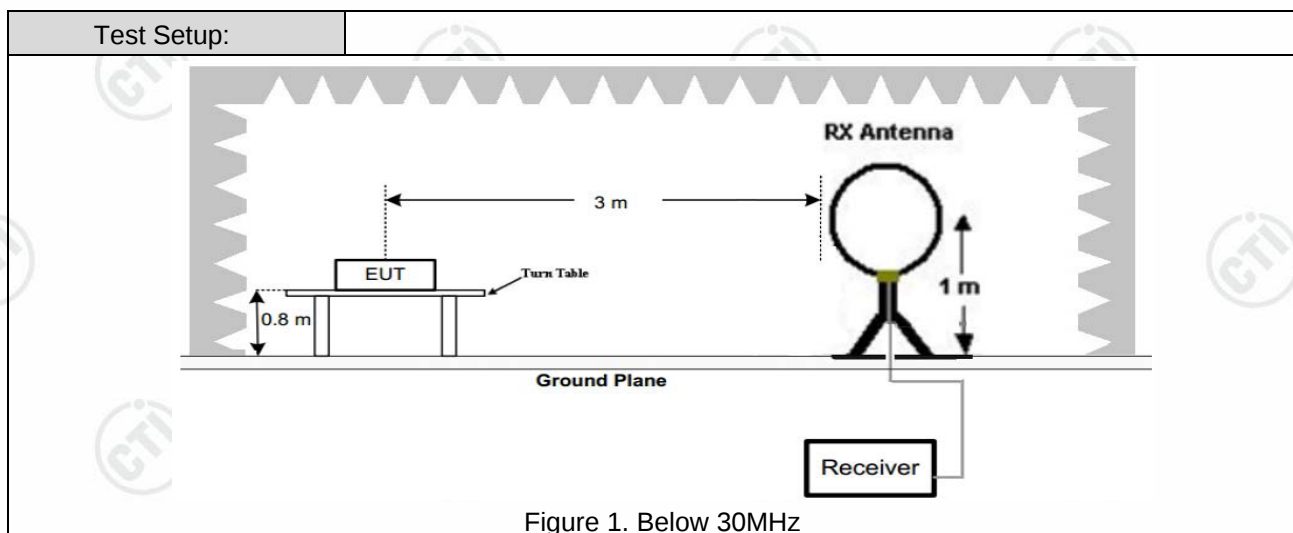
3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESC17	100938-003	09/28/2022	09/27/2023
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/15/2021	04/14/2024
Multi device Controller	maturo	NCD/070/10711112	---	---	---
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2023	06/19/2024
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---

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	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
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	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-29-2022 07-25-2023	07-28-2023 07-24-2024
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
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	---	---

7 Test results and Measurement Data

7.1 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013				
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	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/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.				



Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- Note: For the radiated emission test above 1GHz:
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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

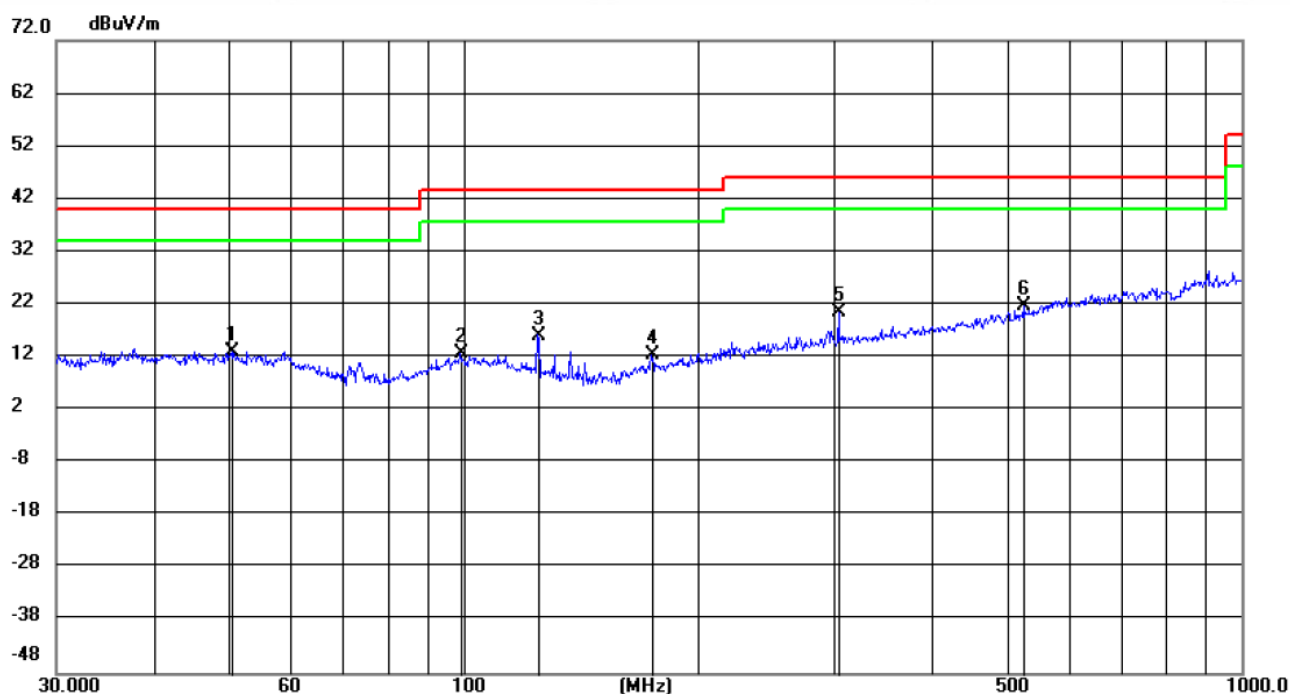
	horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Refer to clause 5.3
Test Results:	Pass

Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case highest channel of GFSK 2M for HJSR81 Ble was recorded in the report.

Horizontal:

Test Graph

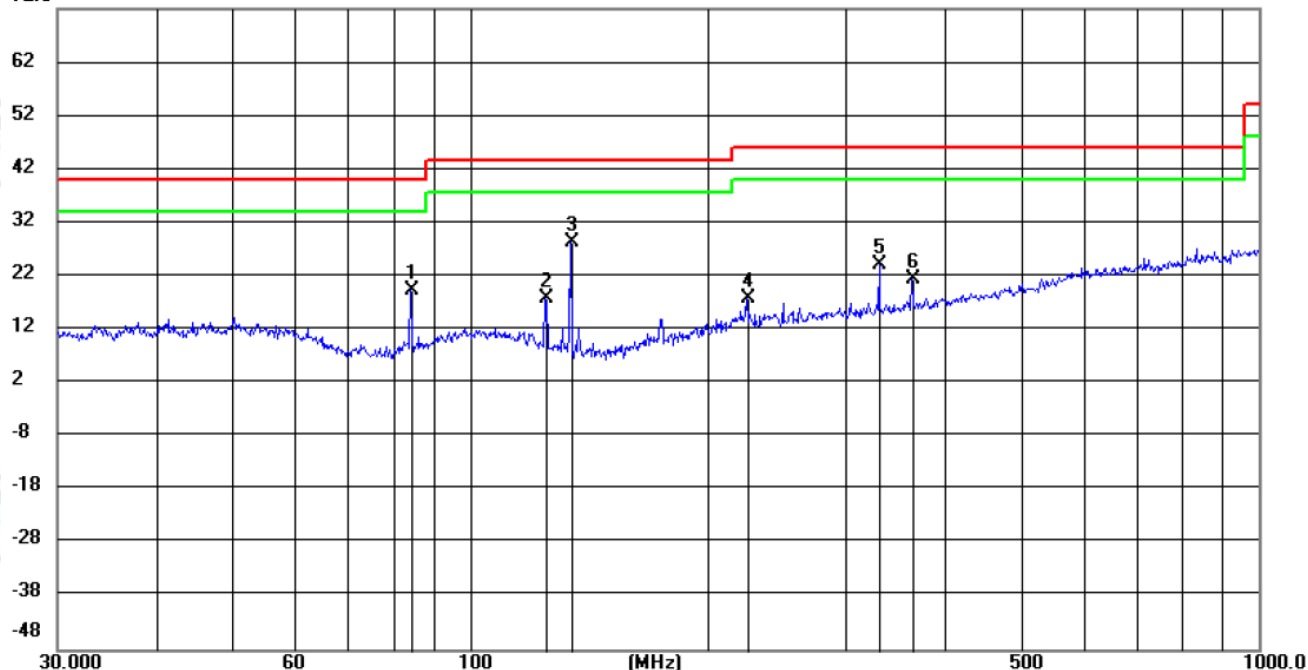


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		50.4354	-0.36	13.51	13.15	40.00	-26.85	peak	100	58
2		99.4583	-0.51	13.15	12.64	43.50	-30.86	peak	100	353
3		125.0065	5.52	10.68	16.20	43.50	-27.30	peak	199	352
4		175.0060	1.30	11.23	12.53	43.50	-30.97	peak	199	188
5		304.1830	4.38	16.13	20.51	46.00	-25.49	peak	100	170
6	*	526.3044	1.50	20.33	21.83	46.00	-24.17	peak	199	342

Vertical:

Test Graph

72.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		84.1395	9.36	9.94	19.30	40.00	-20.70	peak	100	352
2		124.9847	7.22	10.68	17.90	43.50	-25.60	peak	200	201
3	*	134.4648	18.97	9.40	28.37	43.50	-15.13	peak	100	352
4		224.9922	4.44	13.37	17.81	46.00	-28.19	peak	100	167
5		331.0644	7.59	16.61	24.20	46.00	-21.80	peak	200	334
6		363.3028	4.41	17.18	21.59	46.00	-24.41	peak	100	352

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR81 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1529.4529	1.71	38.06	39.77	74.00	34.23	PASS	Horizon	PK
2	2076.1076	4.80	37.21	42.01	74.00	31.99	PASS	Horizon	PK
3	4803.1202	-16.23	58.87	42.64	74.00	31.36	PASS	Horizon	PK
4	7207.2805	-11.83	65.78	53.95	74.00	20.05	PASS	Horizon	PK
5	9607.4405	-7.37	53.06	45.69	74.00	28.31	PASS	Horizon	PK
6	12008.6006	-5.30	54.52	49.22	74.00	24.78	PASS	Horizon	PK
7	1575.4575	2.09	37.86	39.95	74.00	34.05	PASS	Vertical	PK
8	2056.9057	4.74	37.82	42.56	74.00	31.44	PASS	Vertical	PK
9	4804.1203	-16.23	58.95	42.72	74.00	31.28	PASS	Vertical	PK
10	7205.2804	-11.83	61.88	50.05	74.00	23.95	PASS	Vertical	PK
11	9607.4405	-7.37	52.58	45.21	74.00	28.79	PASS	Vertical	PK
12	12009.6006	-5.30	54.10	48.80	74.00	25.20	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR81 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1652.8653	2.63	37.81	40.44	74.00	33.56	PASS	Horizon	PK
2	2065.5066	4.76	38.13	42.89	74.00	31.11	PASS	Horizon	PK
3	4879.1253	-16.21	56.36	40.15	74.00	33.85	PASS	Horizon	PK
4	7319.288	-11.65	64.74	53.09	74.00	20.91	PASS	Horizon	PK
5	9759.4506	-7.52	51.98	44.46	74.00	29.54	PASS	Horizon	PK
6	12201.6134	-5.13	50.26	45.13	74.00	28.87	PASS	Horizon	PK
7	1678.8679	2.80	38.07	40.87	74.00	33.13	PASS	Vertical	PK
8	2098.9099	4.88	37.75	42.63	74.00	31.37	PASS	Vertical	PK
9	4879.1253	-16.21	54.59	38.38	74.00	35.62	PASS	Vertical	PK
10	7319.288	-11.65	64.03	52.38	74.00	21.62	PASS	Vertical	PK
11	9759.4506	-7.52	49.91	42.39	74.00	31.61	PASS	Vertical	PK
12	16331.8888	1.03	46.54	47.57	74.00	26.43	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR81 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1745.2745	3.10	37.69	40.79	74.00	33.21	PASS	Horizon	PK
2	2063.5064	4.76	37.44	42.20	74.00	31.80	PASS	Horizon	PK
3	4959.1306	-15.98	56.80	40.82	74.00	33.18	PASS	Horizon	PK
4	7439.296	-11.34	64.41	53.07	74.00	20.93	PASS	Horizon	PK
5	9919.4613	-7.10	50.73	43.63	74.00	30.37	PASS	Horizon	PK
6	16245.8831	1.28	44.64	45.92	74.00	28.08	PASS	Horizon	PK
7	1542.2542	1.82	38.21	40.03	74.00	33.97	PASS	Vertical	PK
8	2005.7006	4.57	37.44	42.01	74.00	31.99	PASS	Vertical	PK
9	3455.0303	-20.10	54.88	34.78	74.00	39.22	PASS	Vertical	PK
10	4959.1306	-15.98	53.47	37.49	74.00	36.51	PASS	Vertical	PK
11	7440.296	-11.34	64.22	52.88	74.00	21.12	PASS	Vertical	PK
12	12401.6268	-4.69	52.69	48.00	74.00	26.00	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR81 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1398.6399	1.39	38.73	40.12	74.00	33.88	PASS	Horizon	PK
2	2085.1085	4.83	38.14	42.97	74.00	31.03	PASS	Horizon	PK
3	4803.1202	-16.23	59.58	43.35	74.00	30.65	PASS	Horizon	PK
4	7204.2803	-11.84	65.16	53.32	74.00	20.68	PASS	Horizon	PK
5	12007.6005	-5.30	51.90	46.60	74.00	27.40	PASS	Horizon	PK
6	16899.9267	3.11	44.66	47.77	74.00	26.23	PASS	Horizon	PK
7	1693.4693	2.90	37.65	40.55	74.00	33.45	PASS	Vertical	PK
8	2105.5106	4.82	38.40	43.22	74.00	30.78	PASS	Vertical	PK
9	4805.1203	-16.23	56.31	40.08	74.00	33.92	PASS	Vertical	PK
10	7204.2803	-11.84	63.50	51.66	74.00	22.34	PASS	Vertical	PK
11	12007.6005	-5.30	52.34	47.04	74.00	26.96	PASS	Vertical	PK
12	16326.8885	1.14	46.51	47.65	74.00	26.35	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR81 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1639.664	2.55	37.41	39.96	74.00	34.04	PASS	Horizon	PK
2	2030.9031	4.65	37.40	42.05	74.00	31.95	PASS	Horizon	PK
3	4879.1253	-16.21	56.59	40.38	74.00	33.62	PASS	Horizon	PK
4	7321.2881	-11.65	64.06	52.41	74.00	21.59	PASS	Horizon	PK
5	12197.6132	-5.14	50.20	45.06	74.00	28.94	PASS	Horizon	PK
6	16242.8829	1.25	46.76	48.01	74.00	25.99	PASS	Horizon	PK
7	1624.0624	2.45	37.85	40.30	74.00	33.70	PASS	Vertical	PK
8	2094.1094	4.86	37.17	42.03	74.00	31.97	PASS	Vertical	PK
9	4879.1253	-16.21	54.64	38.43	74.00	35.57	PASS	Vertical	PK
10	7318.2879	-11.66	64.69	53.03	74.00	20.97	PASS	Vertical	PK
11	12202.6135	-5.14	49.83	44.69	74.00	29.31	PASS	Vertical	PK
12	16269.8847	1.48	45.70	47.18	74.00	26.82	PASS	Vertical	PK

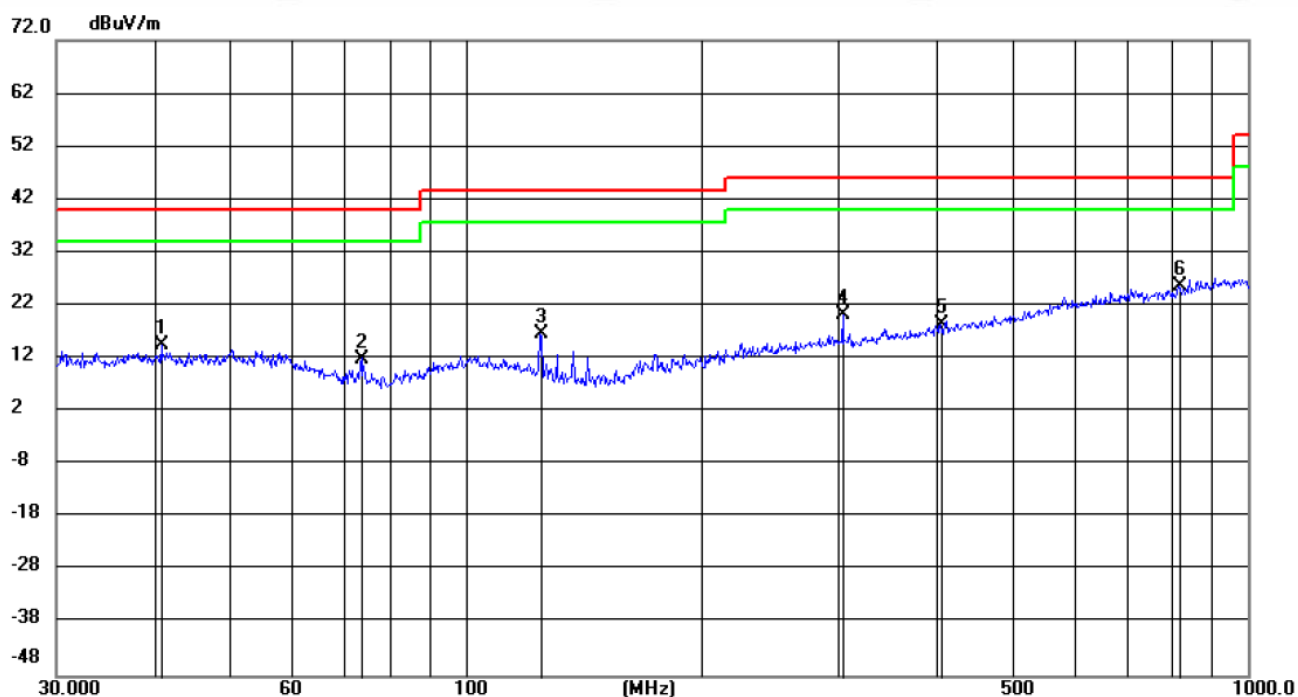
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR81 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1784.0784	3.22	37.42	40.64	74.00	33.36	PASS	Horizon	PK
2	2102.1102	4.85	37.54	42.39	74.00	31.61	PASS	Horizon	PK
3	4959.1306	-15.98	57.19	41.21	74.00	32.79	PASS	Horizon	PK
4	7438.2959	-11.35	63.64	52.29	74.00	21.71	PASS	Horizon	PK
5	9918.4612	-7.10	51.94	44.84	74.00	29.16	PASS	Horizon	PK
6	16254.8837	1.35	45.70	47.05	74.00	26.95	PASS	Horizon	PK
7	1433.2433	1.41	37.92	39.33	74.00	34.67	PASS	Vertical	PK
8	2046.3046	4.70	37.49	42.19	74.00	31.81	PASS	Vertical	PK
9	3328.0219	-19.91	60.38	40.47	74.00	33.53	PASS	Vertical	PK
10	5973.1982	-13.13	64.53	51.40	74.00	22.60	PASS	Vertical	PK
11	7441.2961	-11.34	64.52	53.18	74.00	20.82	PASS	Vertical	PK
12	9918.4612	-7.10	51.18	44.08	74.00	29.92	PASS	Vertical	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 highest channel of GFSK 2M for HJSR81B Ble was recorded in the report.

Horizontal:

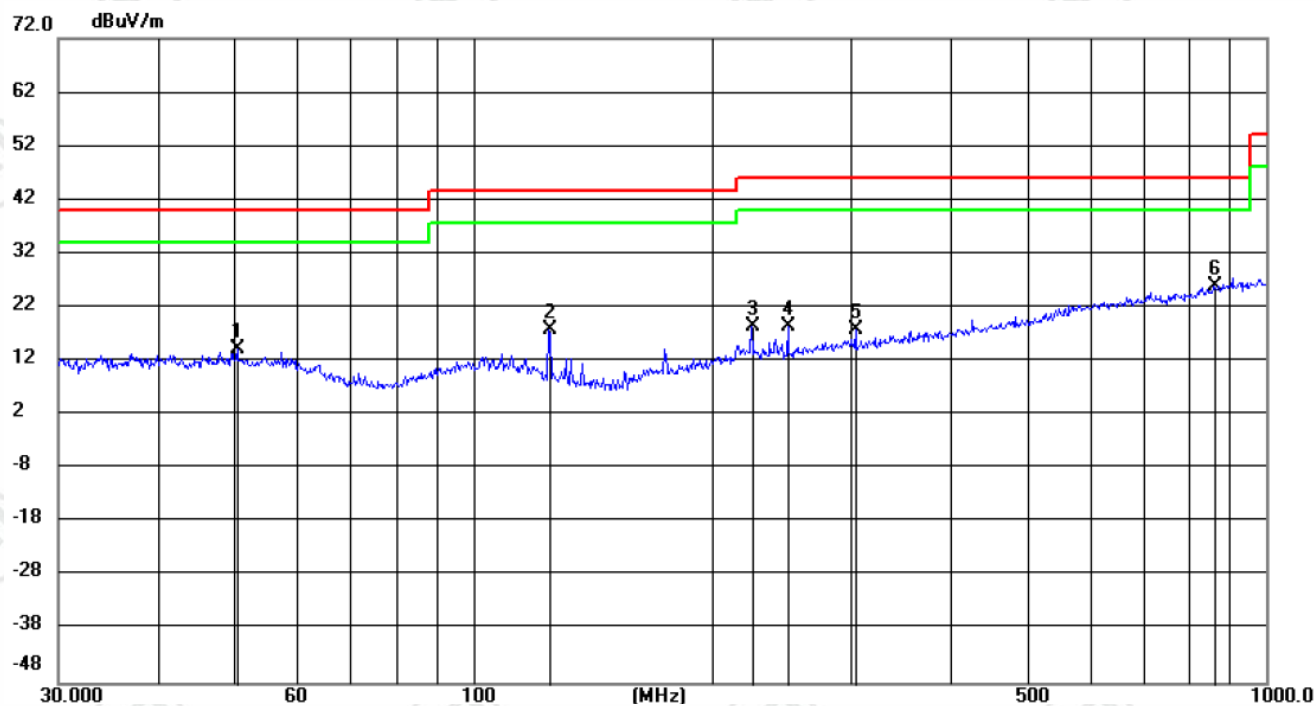
Test Graph



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		40.9665	0.79	13.71	14.50	40.00	-25.50	peak	199	115	
2		73.6428	2.63	9.37	12.00	40.00	-28.00	peak	100	282	
3		124.9846	6.06	10.68	16.74	43.50	-26.76	peak	100	150	
4		304.2363	4.16	16.13	20.29	46.00	-25.71	peak	100	360	
5		404.9504	0.48	17.92	18.40	46.00	-27.60	peak	100	129	
6	*	817.3996	0.85	24.75	25.60	46.00	-20.40	peak	100	211	

Vertical:

Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		50.4354	0.67	13.51	14.18	40.00	-25.82	peak	100	183
2		124.9847	7.12	10.68	17.80	43.50	-25.70	peak	100	352
3		224.9922	4.98	13.37	18.35	46.00	-27.65	peak	100	79
4		249.9942	4.33	14.26	18.59	46.00	-27.41	peak	100	352
5		304.1830	1.59	16.13	17.72	46.00	-28.28	peak	100	352
6	*	862.1488	0.47	25.38	25.85	46.00	-20.15	peak	200	7

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR81B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1661.0661	2.68	38.44	41.12	74.00	32.88	PASS	Horizo	PK
2	2097.1097	4.87	37.66	42.53	74.00	31.47	PASS	Horizo	PK
3	4803.1202	-16.23	58.47	42.24	74.00	31.76	PASS	Horizo	PK
4	7205.2804	-11.83	64.99	53.16	74.00	20.84	PASS	Horizo	PK
5	9607.4405	-7.37	50.55	43.18	74.00	30.82	PASS	Horizo	PK
6	12008.600	-5.30	55.55	50.25	74.00	23.75	PASS	Horizo	PK
7	1662.6663	2.69	38.31	41.00	74.00	33.00	PASS	Vertical	PK
8	2099.91	4.88	37.40	42.28	74.00	31.72	PASS	Vertical	PK
9	4804.1203	-16.23	57.49	41.26	74.00	32.74	PASS	Vertical	PK
10	7207.2805	-11.83	60.22	48.39	74.00	25.61	PASS	Vertical	PK
11	9609.4406	-7.38	53.08	45.70	74.00	28.30	PASS	Vertical	PK
12	12008.600	-5.30	53.86	48.56	74.00	25.44	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR81B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1434.0434	1.41	38.70	40.11	74.00	33.89	PASS	Horizo	PK
2	2056.3056	4.74	37.85	42.59	74.00	31.41	PASS	Horizo	PK
3	4879.1253	-16.21	57.92	41.71	74.00	32.29	PASS	Horizo	PK
4	7319.288	-11.65	65.03	53.38	74.00	20.62	PASS	Horizo	PK
5	9761.4508	-7.51	53.43	45.92	74.00	28.08	PASS	Horizo	PK
6	12199.613	-5.12	50.28	45.16	74.00	28.84	PASS	Horizo	PK
7	1648.8649	2.61	37.83	40.44	74.00	33.56	PASS	Vertical	PK
8	2087.1087	4.84	37.32	42.16	74.00	31.84	PASS	Vertical	PK
9	3993.0662	-18.91	55.48	36.57	74.00	37.43	PASS	Vertical	PK
10	4880.1253	-16.21	54.23	38.02	74.00	35.98	PASS	Vertical	PK
11	7319.288	-11.65	64.83	53.18	74.00	20.82	PASS	Vertical	PK
12	12198.613	-5.13	51.90	46.77	74.00	27.23	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR81B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1687.4687	2.86	38.01	40.87	74.00	33.13	PASS	Horizo	PK
2	2085.7086	4.83	37.55	42.38	74.00	31.62	PASS	Horizo	PK
3	4959.1306	-15.98	56.79	40.81	74.00	33.19	PASS	Horizo	PK
4	7439.296	-11.34	64.16	52.82	74.00	21.18	PASS	Horizo	PK
5	9920.4614	-7.10	51.29	44.19	74.00	29.81	PASS	Horizo	PK
6	16291.886	1.66	45.45	47.11	74.00	26.89	PASS	Horizo	PK
7	1652.0652	2.62	37.66	40.28	74.00	33.72	PASS	Vertical	PK
8	2092.9093	4.86	37.73	42.59	74.00	31.41	PASS	Vertical	PK
9	4960.1307	-15.97	54.27	38.30	74.00	35.70	PASS	Vertical	PK
10	7439.296	-11.34	63.32	51.98	74.00	22.02	PASS	Vertical	PK
11	9921.4614	-7.10	50.45	43.35	74.00	30.65	PASS	Vertical	PK
12	12398.626	-4.70	52.10	47.40	74.00	26.60	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR81B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1628.0628	2.48	37.94	40.42	74.00	33.58	PASS	Horizo	PK
2	2104.3104	4.84	38.60	43.44	74.00	30.56	PASS	Horizo	PK
3	4803.1202	-16.23	58.93	42.70	74.00	31.30	PASS	Horizo	PK
4	7204.2803	-11.84	62.94	51.10	74.00	22.90	PASS	Horizo	PK
5	9610.4407	-7.38	51.72	44.34	74.00	29.66	PASS	Horizo	PK
6	14370.758	0.73	44.75	45.48	74.00	28.52	PASS	Horizo	PK
7	1691.4691	2.88	37.74	40.62	74.00	33.38	PASS	Vertical	PK
8	2070.5071	4.78	37.54	42.32	74.00	31.68	PASS	Vertical	PK
9	4805.1203	-16.23	56.57	40.34	74.00	33.66	PASS	Vertical	PK
10	5978.1985	-13.10	58.79	45.69	74.00	28.31	PASS	Vertical	PK
11	7204.2803	-11.84	55.87	44.03	74.00	29.97	PASS	Vertical	PK
12	12007.600	-5.30	52.96	47.66	74.00	26.34	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR81B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1556.8557	1.94	37.97	39.91	74.00	34.09	PASS	Horizo	PK
2	1835.4835	3.54	37.94	41.48	74.00	32.52	PASS	Horizo	PK
3	4879.1253	-16.21	59.10	42.89	74.00	31.11	PASS	Horizo	PK
4	7321.2881	-11.65	62.82	51.17	74.00	22.83	PASS	Horizo	PK
5	9762.4508	-7.51	51.01	43.50	74.00	30.50	PASS	Horizo	PK
6	13747.716	-1.70	46.74	45.04	74.00	28.96	PASS	Horizo	PK
7	1658.0658	2.66	37.88	40.54	74.00	33.46	PASS	Vertical	PK
8	2114.1114	4.73	37.35	42.08	74.00	31.92	PASS	Vertical	PK
9	4881.1254	-16.21	54.84	38.63	74.00	35.37	PASS	Vertical	PK
10	5994.1996	-13.00	57.44	44.44	74.00	29.56	PASS	Vertical	PK
11	7319.288	-11.65	63.41	51.76	74.00	22.24	PASS	Vertical	PK
12	12197.613	-5.14	52.35	47.21	74.00	26.79	PASS	Vertical	PK

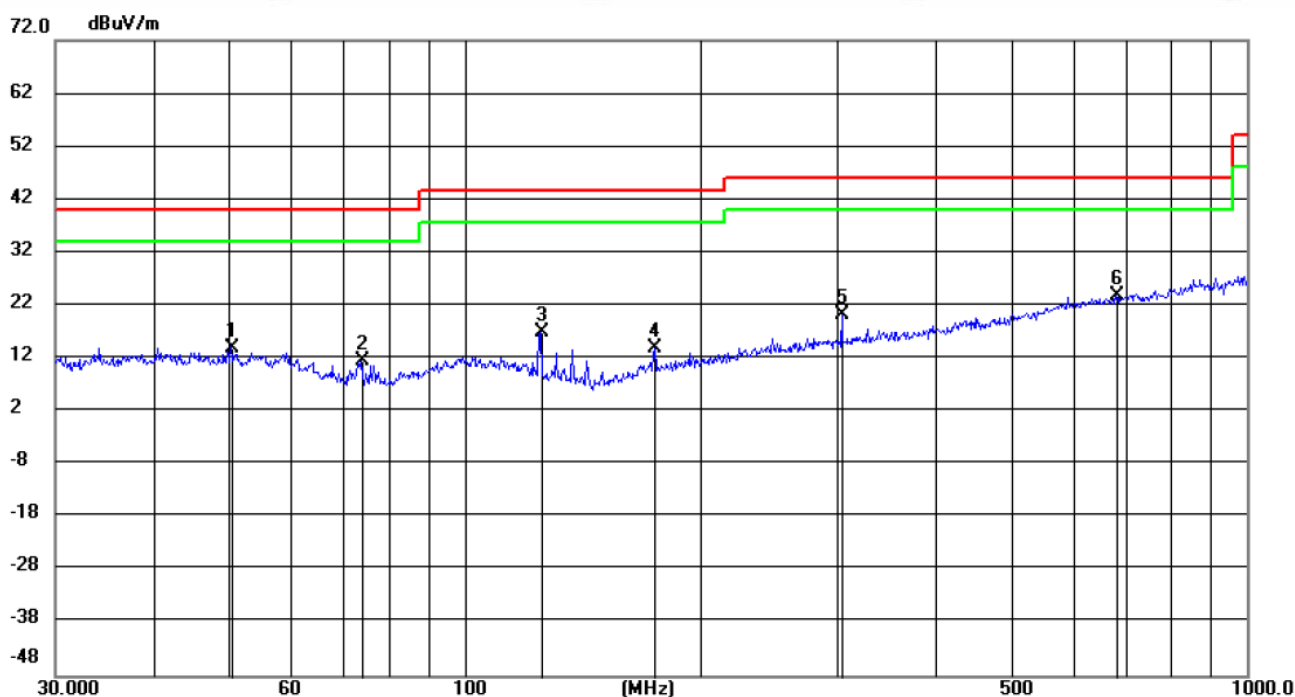
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR81B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2041.9042	4.69	37.36	42.05	74.00	31.95	PASS	Horizo	PK
2	4959.1306	-15.98	56.63	40.65	74.00	33.35	PASS	Horizo	PK
3	7441.2961	-11.34	62.90	51.56	74.00	22.44	PASS	Horizo	PK
4	9918.4612	-7.10	48.95	41.85	74.00	32.15	PASS	Horizo	PK
5	13755.717	-1.70	46.26	44.56	74.00	29.44	PASS	Horizo	PK
6	16268.884	1.47	45.53	47.00	74.00	27.00	PASS	Horizo	PK
7	1585.4585	2.17	37.41	39.58	74.00	34.42	PASS	Vertical	PK
8	1942.2942	4.25	38.03	42.28	74.00	31.72	PASS	Vertical	PK
9	4959.1306	-15.98	53.81	37.83	74.00	36.17	PASS	Vertical	PK
10	6663.2442	-12.60	53.73	41.13	74.00	32.87	PASS	Vertical	PK
11	7441.2961	-11.34	62.94	51.60	74.00	22.40	PASS	Vertical	PK
12	16253.883	1.34	45.82	47.16	74.00	26.84	PASS	Vertical	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 highest channel of GFSK 2M for HJSR81C Ble was recorded in the report.

Horizontal:

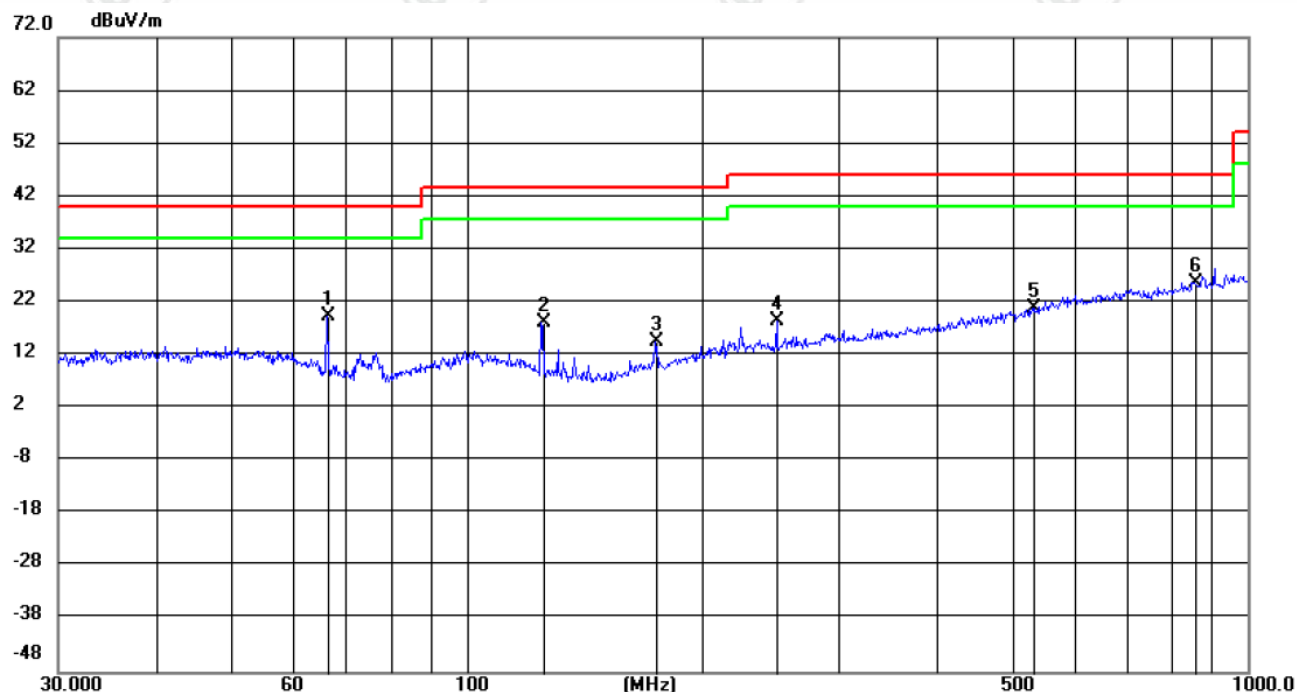
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		50.3206	0.58	13.52	14.10	40.00	-25.90	peak	199	0
2		74.0831	2.27	9.34	11.61	40.00	-28.39	peak	100	58
3		125.0285	6.25	10.67	16.92	43.50	-26.58	peak	199	73
4		175.0367	2.75	11.23	13.98	43.50	-29.52	peak	199	73
5		304.2896	4.08	16.13	20.21	46.00	-25.79	peak	100	360
6	*	681.3920	1.11	22.79	23.90	46.00	-22.10	peak	199	155

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		66.4640	8.49	10.75	19.24	40.00	-20.76	peak	100	352
2		125.0066	7.35	10.68	18.03	43.50	-25.47	peak	200	343
3		175.0061	3.18	11.23	14.41	43.50	-29.09	peak	100	197
4		249.9942	4.16	14.26	18.42	46.00	-27.58	peak	200	109
5		530.1942	0.47	20.43	20.90	46.00	-25.10	peak	200	312
6	*	854.7737	0.39	25.28	25.67	46.00	-20.33	peak	200	282

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR81C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1577.8578	2.10	37.67	39.77	74.00	34.23	PASS	Horizo	PK
2	2019.902	4.62	38.04	42.66	74.00	31.34	PASS	Horizo	PK
3	4804.1203	-16.23	57.98	41.75	74.00	32.25	PASS	Horizo	PK
4	7205.2804	-11.83	62.55	50.72	74.00	23.28	PASS	Horizo	PK
5	9607.4405	-7.37	51.46	44.09	74.00	29.91	PASS	Horizo	PK
6	12008.600	-5.30	55.38	50.08	74.00	23.92	PASS	Horizo	PK
7	1673.0673	2.76	37.93	40.69	74.00	33.31	PASS	Vertical	PK
8	1978.8979	4.44	37.93	42.37	74.00	31.63	PASS	Vertical	PK
9	4804.1203	-16.23	54.86	38.63	74.00	35.37	PASS	Vertical	PK
10	7205.2804	-11.83	65.25	53.42	74.00	20.58	PASS	Vertical	PK
11	12011.600	-5.32	54.59	49.27	74.00	24.73	PASS	Vertical	PK
12	16221.881	1.08	45.22	46.30	74.00	27.70	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR81C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1834.4834	3.54	37.85	41.39	74.00	32.61	PASS	Horizo	PK
2	2101.1101	4.87	38.10	42.97	74.00	31.03	PASS	Horizo	PK
3	4879.1253	-16.21	57.03	40.82	74.00	33.18	PASS	Horizo	PK
4	7321.2881	-11.65	65.09	53.44	74.00	20.56	PASS	Horizo	PK
5	9759.4506	-7.52	52.64	45.12	74.00	28.88	PASS	Horizo	PK
6	16338.889	0.87	46.10	46.97	74.00	27.03	PASS	Horizo	PK
7	1704.8705	2.95	38.58	41.53	74.00	32.47	PASS	Vertical	PK
8	2019.502	4.62	37.72	42.34	74.00	31.66	PASS	Vertical	PK
9	3491.0327	-20.03	55.45	35.42	74.00	38.58	PASS	Vertical	PK
10	4880.1253	-16.21	54.42	38.21	74.00	35.79	PASS	Vertical	PK
11	7319.288	-11.65	64.48	52.83	74.00	21.17	PASS	Vertical	PK
12	12200.613	-5.12	52.71	47.59	74.00	26.41	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR81C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2044.1044	4.69	38.72	43.41	74.00	30.59	PASS	Horizo	PK
2	3424.0283	-20.16	53.50	33.34	74.00	40.66	PASS	Horizo	PK
3	4959.1306	-15.98	57.49	41.51	74.00	32.49	PASS	Horizo	PK
4	7441.2961	-11.34	64.25	52.91	74.00	21.09	PASS	Horizo	PK
5	9919.4613	-7.10	53.48	46.38	74.00	27.62	PASS	Horizo	PK
6	14470.764	0.21	44.02	44.23	74.00	29.77	PASS	Horizo	PK
7	1630.6631	2.49	37.71	40.20	74.00	33.80	PASS	Vertical	PK
8	1971.8972	4.40	38.14	42.54	74.00	31.46	PASS	Vertical	PK
9	4959.1306	-15.98	52.02	36.04	74.00	37.96	PASS	Vertical	PK
10	7439.296	-11.34	64.31	52.97	74.00	21.03	PASS	Vertical	PK
11	12398.626	-4.70	51.03	46.33	74.00	27.67	PASS	Vertical	PK
12	16258.883	1.39	44.95	46.34	74.00	27.66	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR81C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1656.4656	2.65	38.08	40.73	74.00	33.27	PASS	Horizo	PK
2	1995.2995	4.53	37.79	42.32	74.00	31.68	PASS	Horizo	PK
3	4805.1203	-16.23	59.46	43.23	74.00	30.77	PASS	Horizo	PK
4	7204.2803	-11.84	62.37	50.53	74.00	23.47	PASS	Horizo	PK
5	12007.600	-5.30	52.91	47.61	74.00	26.39	PASS	Horizo	PK
6	16270.884	1.49	46.08	47.57	74.00	26.43	PASS	Horizo	PK
7	1743.4743	3.09	37.76	40.85	74.00	33.15	PASS	Vertical	PK
8	2067.9068	4.78	37.56	42.34	74.00	31.66	PASS	Vertical	PK
9	4803.1202	-16.23	54.58	38.35	74.00	35.65	PASS	Vertical	PK
10	7204.2803	-11.84	64.95	53.11	74.00	20.89	PASS	Vertical	PK
11	12007.600	-5.30	54.34	49.04	74.00	24.96	PASS	Vertical	PK
12	16275.885	1.53	45.60	47.13	74.00	26.87	PASS	Vertical	PK

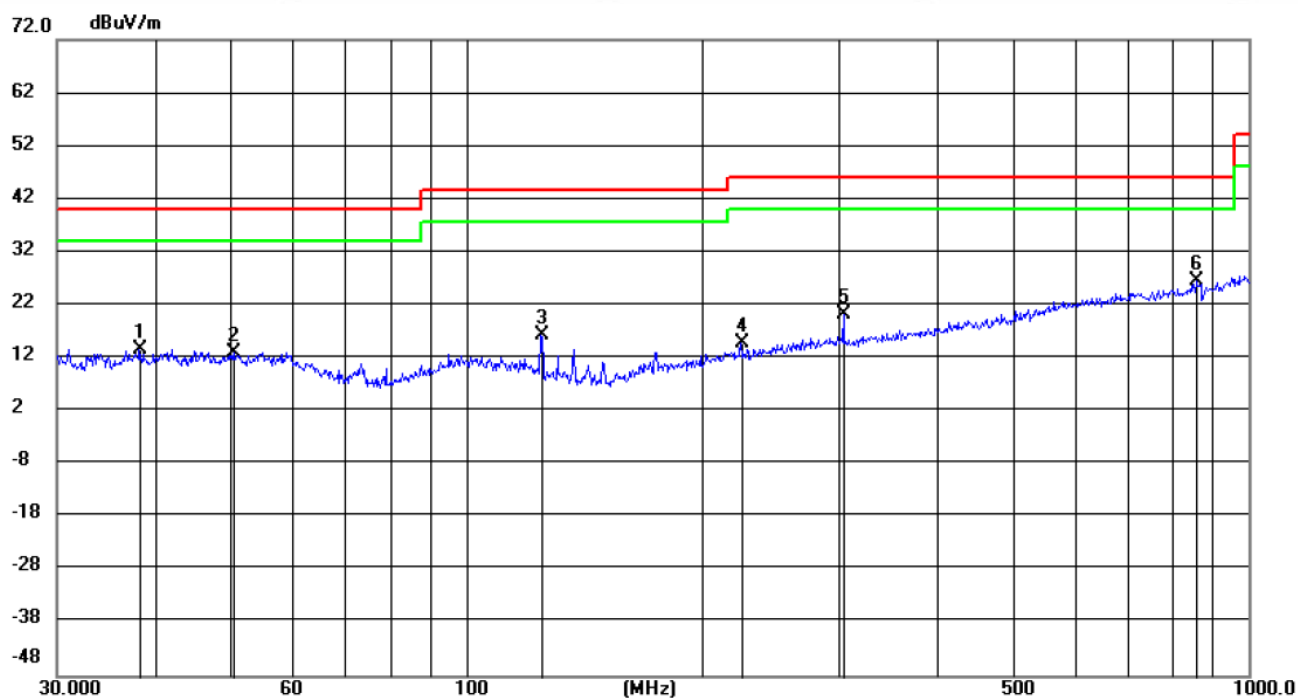
Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR81C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1715.4715	2.99	37.82	40.81	74.00	33.19	PASS	Horizo	PK
2	2078.7079	4.81	37.62	42.43	74.00	31.57	PASS	Horizo	PK
3	4879.1253	-16.21	58.43	42.22	74.00	31.78	PASS	Horizo	PK
4	7321.2881	-11.65	64.11	52.46	74.00	21.54	PASS	Horizo	PK
5	9758.4506	-7.52	52.56	45.04	74.00	28.96	PASS	Horizo	PK
6	16266.884	1.45	46.32	47.77	74.00	26.23	PASS	Horizo	PK
7	1809.0809	3.35	37.49	40.84	74.00	33.16	PASS	Vertical	PK
8	4879.1253	-16.21	54.93	38.72	74.00	35.28	PASS	Vertical	PK
9	7321.2881	-11.65	64.45	52.80	74.00	21.20	PASS	Vertical	PK
10	9758.4506	-7.52	51.67	44.15	74.00	29.85	PASS	Vertical	PK
11	12197.613	-5.14	51.12	45.98	74.00	28.02	PASS	Vertical	PK
12	16898.926	3.09	44.12	47.21	74.00	26.79	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR81C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1704.0704	2.96	37.60	40.56	74.00	33.44	PASS	Horizo	PK
2	2036.7037	4.67	37.72	42.39	74.00	31.61	PASS	Horizo	PK
3	4959.1306	-15.98	57.77	41.79	74.00	32.21	PASS	Horizo	PK
4	7438.2959	-11.35	64.25	52.90	74.00	21.10	PASS	Horizo	PK
5	9922.4615	-7.10	48.73	41.63	74.00	32.37	PASS	Horizo	PK
6	14338.755	0.20	45.34	45.54	74.00	28.46	PASS	Horizo	PK
7	1708.6709	2.97	37.50	40.47	74.00	33.53	PASS	Vertical	PK
8	2041.7042	4.69	37.15	41.84	74.00	32.16	PASS	Vertical	PK
9	4959.1306	-15.98	54.03	38.05	74.00	35.95	PASS	Vertical	PK
10	7441.2961	-11.34	64.10	52.76	74.00	21.24	PASS	Vertical	PK
11	12402.626	-4.70	49.34	44.64	74.00	29.36	PASS	Vertical	PK
12	16270.884	1.49	45.52	47.01	74.00	26.99	PASS	Vertical	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 highest channel of GFSK 2M for HJSR81D Ble was recorded in the report.

Horizontal:

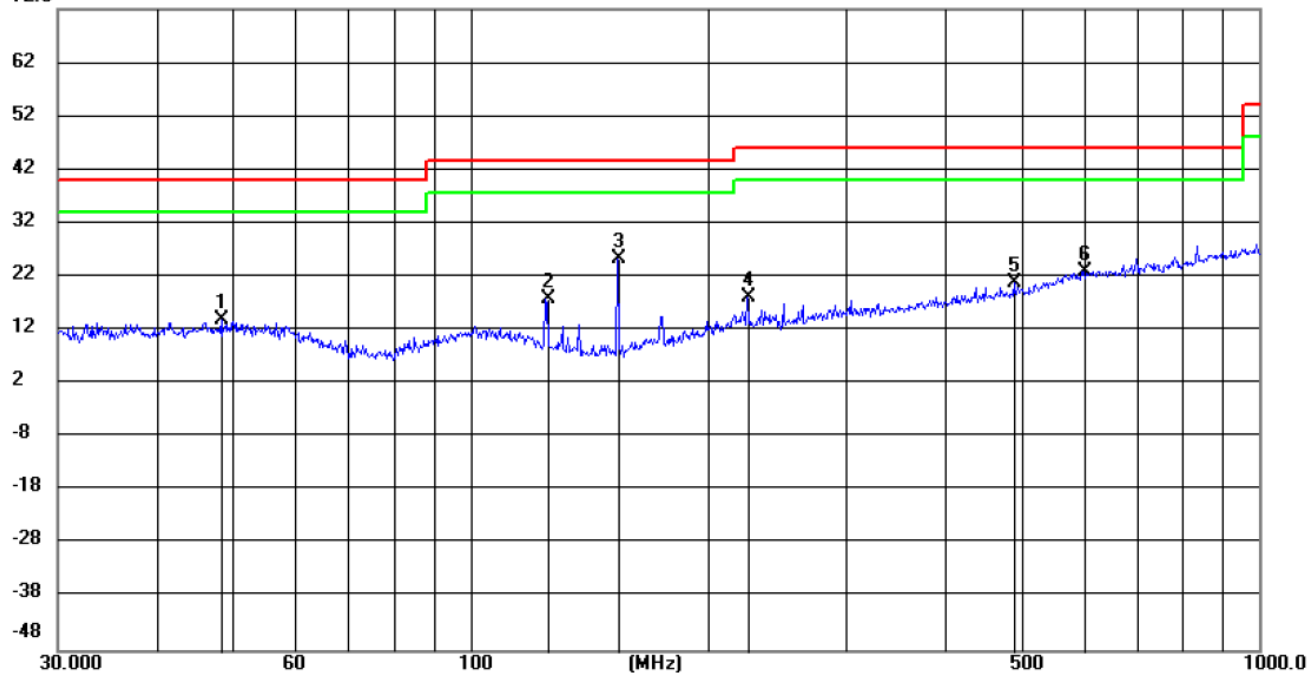
Test Graph

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		38.2522	0.07	13.45	13.52	40.00	-26.48	peak	100	139
2		50.5327	-0.33	13.51	13.18	40.00	-26.82	peak	199	352
3		124.9846	5.75	10.68	16.43	43.50	-27.07	peak	199	352
4		225.0316	1.44	13.38	14.82	46.00	-31.18	peak	100	47
5		304.2363	4.03	16.13	20.16	46.00	-25.84	peak	100	119
6	*	859.8843	1.33	25.35	26.68	46.00	-19.32	peak	100	272

Vertical:

Test Graph

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		48.3487	0.43	13.57	14.00	40.00	-26.00	peak	200	78	
2		125.0066	7.18	10.68	17.86	43.50	-25.64	peak	200	118	
3	*	153.8194	16.05	9.43	25.48	43.50	-18.02	peak	100	352	
4		224.9922	4.79	13.37	18.16	46.00	-27.84	peak	100	115	
5		489.7992	1.31	19.46	20.77	46.00	-25.23	peak	100	300	
6		601.4265	0.73	22.27	23.00	46.00	-23.00	peak	100	136	

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR81D Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1231.8232	0.88	38.17	39.05	74.00	34.95	PASS	Horizo	PK
2	1915.4915	4.11	37.34	41.45	74.00	32.55	PASS	Horizo	PK
3	3327.0218	-19.91	53.80	33.89	74.00	40.11	PASS	Horizo	PK
4	4804.1203	-16.23	57.48	41.25	74.00	32.75	PASS	Horizo	PK
5	7205.2804	-11.83	57.05	45.22	74.00	28.78	PASS	Horizo	PK
6	12008.600	-5.30	54.88	49.58	74.00	24.42	PASS	Horizo	PK
7	1467.8468	1.45	38.36	39.81	74.00	34.19	PASS	Vertical	PK
8	2102.3102	4.85	37.49	42.34	74.00	31.66	PASS	Vertical	PK
9	4804.1203	-16.23	54.86	38.63	74.00	35.37	PASS	Vertical	PK
10	7205.2804	-11.83	64.25	52.42	74.00	21.58	PASS	Vertical	PK
11	12011.600	-5.32	54.59	49.27	74.00	24.73	PASS	Vertical	PK
12	16221.881	1.08	45.22	46.30	74.00	27.70	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR81D Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1389.639	1.36	38.12	39.48	74.00	34.52	PASS	Horizo	PK
2	2029.703	4.65	38.08	42.73	74.00	31.27	PASS	Horizo	PK
3	4879.1253	-16.21	56.03	39.82	74.00	34.18	PASS	Horizo	PK
4	7321.2881	-11.65	64.59	52.94	74.00	21.06	PASS	Horizo	PK
5	9759.4506	-7.52	52.14	44.62	74.00	29.38	PASS	Horizo	PK
6	12200.613	-5.12	49.56	44.44	74.00	29.56	PASS	Horizo	PK
7	1385.6386	1.35	38.36	39.71	74.00	34.29	PASS	Vertical	PK
8	2019.502	4.62	37.22	41.84	74.00	32.16	PASS	Vertical	PK
9	4880.1253	-16.21	53.92	37.71	74.00	36.29	PASS	Vertical	PK
10	7319.288	-11.65	63.98	52.33	74.00	21.67	PASS	Vertical	PK
11	9761.4508	-7.51	48.04	40.53	74.00	33.47	PASS	Vertical	PK
12	12200.613	-5.12	52.21	47.09	74.00	26.91	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR81D Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1672.0672	2.76	37.84	40.60	74.00	33.40	PASS	Horizo	PK
2	2103.3103	4.84	38.50	43.34	74.00	30.66	PASS	Horizo	PK
3	4959.1306	-15.98	57.49	41.51	74.00	32.49	PASS	Horizo	PK
4	7441.2961	-11.34	63.25	51.91	74.00	22.09	PASS	Horizo	PK
5	9919.4613	-7.10	52.48	45.38	74.00	28.62	PASS	Horizo	PK
6	16411.894	-0.20	47.25	47.05	74.00	26.95	PASS	Horizo	PK
7	1463.2463	1.44	37.88	39.32	74.00	34.68	PASS	Vertical	PK
8	2106.9107	4.80	37.08	41.88	74.00	32.12	PASS	Vertical	PK
9	3987.0658	-18.92	54.55	35.63	74.00	38.37	PASS	Vertical	PK
10	5666.1777	-14.03	49.55	35.52	74.00	38.48	PASS	Vertical	PK
11	7439.296	-11.34	63.81	52.47	74.00	21.53	PASS	Vertical	PK
12	12398.626	-4.70	51.03	46.33	74.00	27.67	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR81D Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1656.4656	2.65	38.08	40.73	74.00	33.27	PASS	Horizo	PK
2	1995.2995	4.53	37.29	41.82	74.00	32.18	PASS	Horizo	PK
3	4805.1203	-16.23	58.96	42.73	74.00	31.27	PASS	Horizo	PK
4	7204.2803	-11.84	61.87	50.03	74.00	23.97	PASS	Horizo	PK
5	12007.600	-5.30	52.41	47.11	74.00	26.89	PASS	Horizo	PK
6	16270.884	1.49	46.08	47.57	74.00	26.43	PASS	Horizo	PK
7	1576.4576	2.09	37.27	39.36	74.00	34.64	PASS	Vertical	PK
8	2067.9068	4.78	37.56	42.34	74.00	31.66	PASS	Vertical	PK
9	3330.022	-19.92	57.39	37.47	74.00	36.53	PASS	Vertical	PK
10	4803.1202	-16.23	54.58	38.35	74.00	35.65	PASS	Vertical	PK
11	7204.2803	-11.84	64.45	52.61	74.00	21.39	PASS	Vertical	PK
12	12007.600	-5.30	53.84	48.54	74.00	25.46	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR81D Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1494.0494	1.46	39.95	41.41	74.00	32.59	PASS	Horizo	PK
2	2078.7079	4.81	37.12	41.93	74.00	32.07	PASS	Horizo	PK
3	4879.1253	-16.21	57.93	41.72	74.00	32.28	PASS	Horizo	PK
4	7321.2881	-11.65	63.61	51.96	74.00	22.04	PASS	Horizo	PK
5	9758.4506	-7.52	52.06	44.54	74.00	29.46	PASS	Horizo	PK
6	16266.884	1.45	45.82	47.27	74.00	26.73	PASS	Horizo	PK
7	1648.8649	2.61	37.58	40.19	74.00	33.81	PASS	Vertical	PK
8	2038.3038	4.67	36.74	41.41	74.00	32.59	PASS	Vertical	PK
9	3486.0324	-20.05	57.63	37.58	74.00	36.42	PASS	Vertical	PK
10	4879.1253	-16.21	54.43	38.22	74.00	35.78	PASS	Vertical	PK
11	7321.2881	-11.65	63.95	52.30	74.00	21.70	PASS	Vertical	PK
12	12197.613	-5.14	50.62	45.48	74.00	28.52	PASS	Vertical	PK

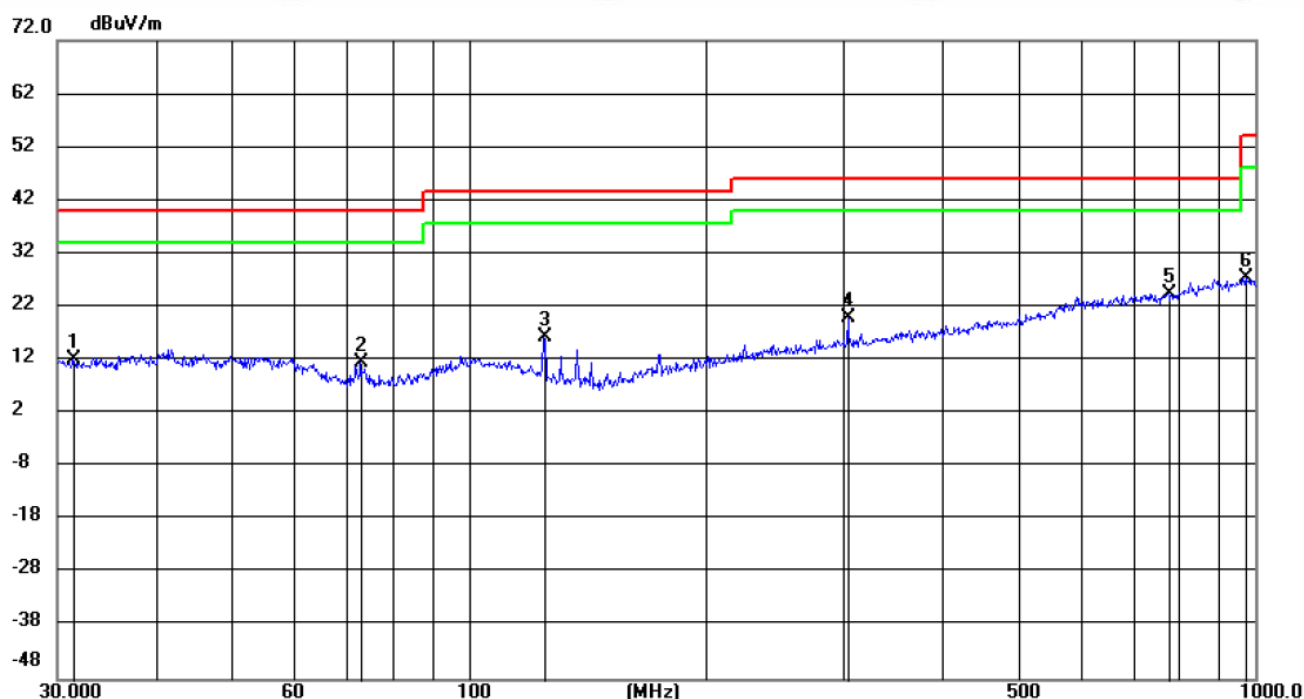
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR81D Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1890.8891	3.96	36.75	40.71	74.00	33.29	PASS	Horizo	PK
2	3836.0557	-19.19	54.35	35.16	74.00	38.84	PASS	Horizo	PK
3	4959.1306	-15.98	57.27	41.29	74.00	32.71	PASS	Horizo	PK
4	7438.2959	-11.35	63.75	52.40	74.00	21.60	PASS	Horizo	PK
5	12402.626	-4.70	48.43	43.73	74.00	30.27	PASS	Horizo	PK
6	16274.885	1.52	45.17	46.69	74.00	27.31	PASS	Horizo	PK
7	1708.6709	2.97	37.50	40.47	74.00	33.53	PASS	Vertical	PK
8	2041.7042	4.69	37.15	41.84	74.00	32.16	PASS	Vertical	PK
9	3996.0664	-18.90	56.14	37.24	74.00	36.76	PASS	Vertical	PK
10	4959.1306	-15.98	53.03	37.05	74.00	36.95	PASS	Vertical	PK
11	7441.2961	-11.34	64.10	52.76	74.00	21.24	PASS	Vertical	PK
12	16270.884	1.49	45.52	47.01	74.00	26.99	PASS	Vertical	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 highest channel of GFSK 2M for HJSR81E Ble was recorded in the report.

Horizontal:

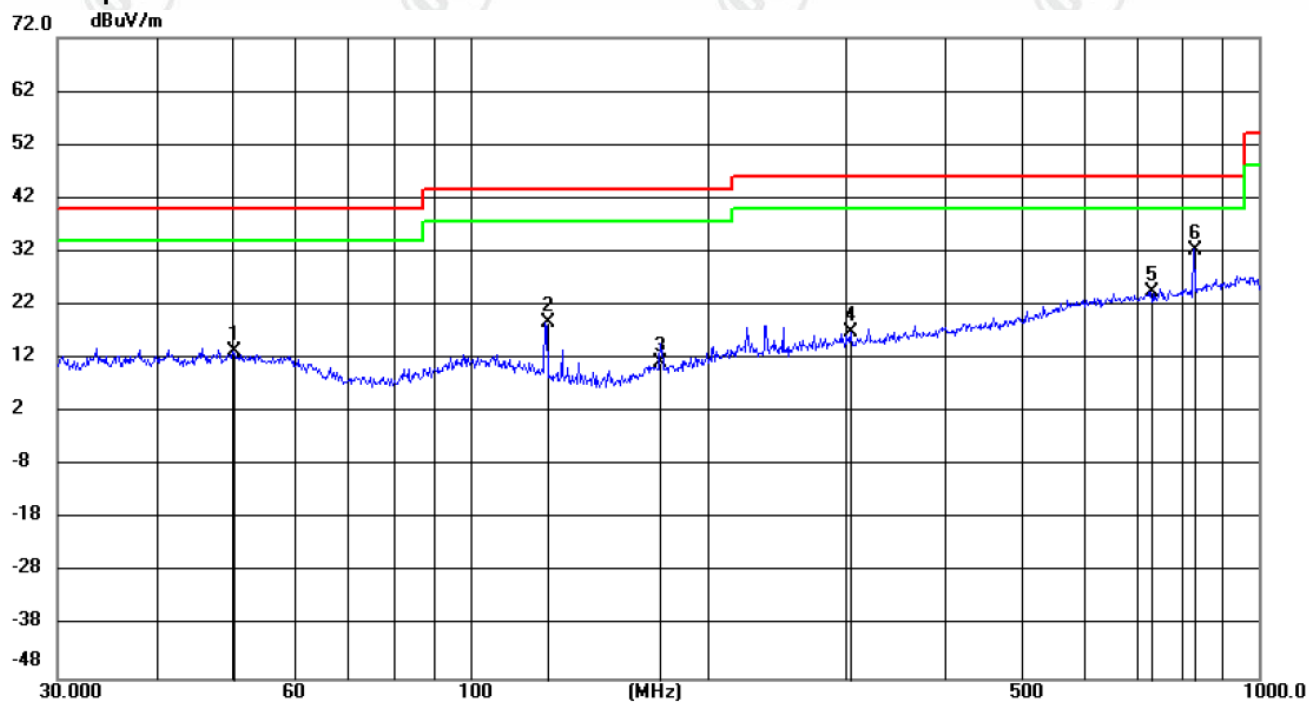
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		31.5095	-0.15	12.38	12.23	40.00	-27.77	peak	199	24
2		72.8977	2.18	9.41	11.59	40.00	-28.41	peak	100	270
3		124.9846	5.75	10.68	16.43	43.50	-27.07	peak	100	98
4		304.2363	3.96	16.13	20.09	46.00	-25.91	peak	100	138
5	*	775.6529	0.38	24.11	24.49	46.00	-21.51	peak	100	219
6		974.5560	1.05	26.35	27.40	54.00	-26.60	peak	199	291

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		50.1708	-0.30	13.53	13.23	40.00	-26.77	peak	200	271
2		125.0066	8.19	10.68	18.87	43.50	-24.63	peak	200	7
3		174.3935	0.00	11.24	11.24	43.50	-32.26	peak	100	352
4		304.2363	0.72	16.13	16.85	46.00	-29.15	peak	100	352
5		729.9979	1.07	23.38	24.45	46.00	-21.55	peak	100	208
6	*	827.9288	7.51	24.89	32.40	46.00	-13.60	peak	200	261

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR81E Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1122.6123	0.84	37.84	38.68	74.00	35.32	PASS	Horizo	PK
2	2019.902	4.62	37.54	42.16	74.00	31.84	PASS	Horizo	PK
3	4804.1203	-16.23	56.98	40.75	74.00	33.25	PASS	Horizo	PK
4	7205.2804	-11.83	56.55	44.72	74.00	29.28	PASS	Horizo	PK
5	9607.4405	-7.37	50.96	43.59	74.00	30.41	PASS	Horizo	PK
6	12008.600	-5.30	54.38	49.08	74.00	24.92	PASS	Horizo	PK
7	1511.2511	1.56	37.12	38.68	74.00	35.32	PASS	Vertical	PK
8	1967.0967	4.38	36.29	40.67	74.00	33.33	PASS	Vertical	PK
9	3325.0217	-19.90	55.76	35.86	74.00	38.14	PASS	Vertical	PK
10	4804.1203	-16.23	54.36	38.13	74.00	35.87	PASS	Vertical	PK
11	7205.2804	-11.83	63.75	51.92	74.00	22.08	PASS	Vertical	PK
12	12011.600	-5.32	54.09	48.77	74.00	25.23	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR81E Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1428.0428	1.41	37.55	38.96	74.00	35.04	PASS	Horizo	PK
2	2029.703	4.65	37.08	41.73	74.00	32.27	PASS	Horizo	PK
3	4879.1253	-16.21	55.03	38.82	74.00	35.18	PASS	Horizo	PK
4	7321.2881	-11.65	62.59	50.94	74.00	23.06	PASS	Horizo	PK
5	9759.4506	-7.52	51.14	43.62	74.00	30.38	PASS	Horizo	PK
6	12200.613	-5.12	49.06	43.94	74.00	30.06	PASS	Horizo	PK
7	1509.651	1.55	36.30	37.85	74.00	36.15	PASS	Vertical	PK
8	2019.502	4.62	36.22	40.84	74.00	33.16	PASS	Vertical	PK
9	3491.0327	-20.03	54.45	34.42	74.00	39.58	PASS	Vertical	PK
10	4880.1253	-16.21	52.92	36.71	74.00	37.29	PASS	Vertical	PK
11	7319.288	-11.65	62.48	50.83	74.00	23.17	PASS	Vertical	PK
12	12200.613	-5.12	51.71	46.59	74.00	27.41	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR81E Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1409.2409	1.40	37.04	38.44	74.00	35.56	PASS	Horizo	PK
2	1945.6946	4.27	36.74	41.01	74.00	32.99	PASS	Horizo	PK
3	3355.0237	-20.02	52.49	32.47	74.00	41.53	PASS	Horizo	PK
4	4959.1306	-15.98	56.49	40.51	74.00	33.49	PASS	Horizo	PK
5	7441.2961	-11.34	63.25	51.91	74.00	22.09	PASS	Horizo	PK
6	9919.4613	-7.10	52.48	45.38	74.00	28.62	PASS	Horizo	PK
7	1403.4403	1.39	37.16	38.55	74.00	35.45	PASS	Vertical	PK
8	1961.4962	4.35	35.51	39.86	74.00	34.14	PASS	Vertical	PK
9	3356.0237	-20.03	55.80	35.77	74.00	38.23	PASS	Vertical	PK
10	4959.1306	-15.98	51.02	35.04	74.00	38.96	PASS	Vertical	PK
11	7439.296	-11.34	62.81	51.47	74.00	22.53	PASS	Vertical	PK
12	12398.626	-4.70	50.03	45.33	74.00	28.67	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR81E Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1342.8343	1.20	36.21	37.41	74.00	36.59	PASS	Horizo	PK
2	1977.4978	4.43	36.65	41.08	74.00	32.92	PASS	Horizo	PK
3	3324.0216	-19.90	54.35	34.45	74.00	39.55	PASS	Horizo	PK
4	4805.1203	-16.23	57.96	41.73	74.00	32.27	PASS	Horizo	PK
5	7204.2803	-11.84	60.87	49.03	74.00	24.97	PASS	Horizo	PK
6	12007.600	-5.30	51.41	46.11	74.00	27.89	PASS	Horizo	PK
7	1162.0162	0.82	41.44	42.26	74.00	31.74	PASS	Vertical	PK
8	1896.8897	4.01	36.75	40.76	74.00	33.24	PASS	Vertical	PK
9	3330.022	-19.92	56.39	36.47	74.00	37.53	PASS	Vertical	PK
10	4803.1202	-16.23	54.08	37.85	74.00	36.15	PASS	Vertical	PK
11	7204.2803	-11.84	63.95	52.11	74.00	21.89	PASS	Vertical	PK
12	12007.600	-5.30	52.84	47.54	74.00	26.46	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR81E Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1322.6323	1.13	37.68	38.81	74.00	35.19	PASS	Horizo	PK
2	1884.8885	3.92	36.39	40.31	74.00	33.69	PASS	Horizo	PK
3	3829.0553	-19.20	52.89	33.69	74.00	40.31	PASS	Horizo	PK
4	4879.1253	-16.21	56.93	40.72	74.00	33.28	PASS	Horizo	PK
5	7321.2881	-11.65	62.11	50.46	74.00	23.54	PASS	Horizo	PK
6	9758.4506	-7.52	51.06	43.54	74.00	30.46	PASS	Horizo	PK
7	1396.4396	1.38	37.21	38.59	74.00	35.41	PASS	Vertical	PK
8	2158.1158	4.25	37.55	41.80	74.00	32.20	PASS	Vertical	PK
9	3486.0324	-20.05	57.13	37.08	74.00	36.92	PASS	Vertical	PK
10	4879.1253	-16.21	53.93	37.72	74.00	36.28	PASS	Vertical	PK
11	7321.2881	-11.65	62.95	51.30	74.00	22.70	PASS	Vertical	PK
12	12197.613	-5.14	50.12	44.98	74.00	29.02	PASS	Vertical	PK

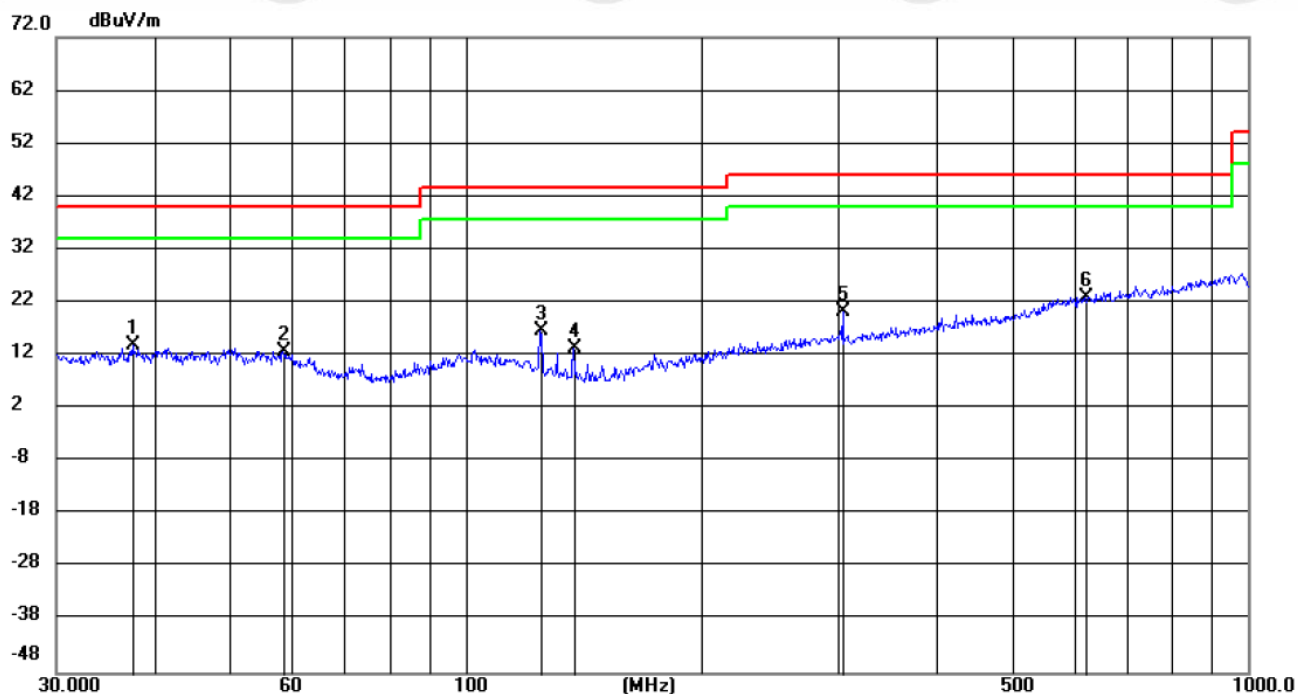
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR81E Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1476.6477	1.45	37.10	38.55	74.00	35.45	PASS	Horizo	PK
2	1995.0995	4.53	36.90	41.43	74.00	32.57	PASS	Horizo	PK
3	3340.0227	-19.96	53.63	33.67	74.00	40.33	PASS	Horizo	PK
4	4959.1306	-15.98	56.77	40.79	74.00	33.21	PASS	Horizo	PK
5	7438.2959	-11.35	62.75	51.40	74.00	22.60	PASS	Horizo	PK
6	13735.715	-1.72	46.12	44.40	74.00	29.60	PASS	Horizo	PK
7	1164.6165	0.81	40.00	40.81	74.00	33.19	PASS	Vertical	PK
8	2027.1027	4.64	36.68	41.32	74.00	32.68	PASS	Vertical	PK
9	3372.0248	-20.09	55.03	34.94	74.00	39.06	PASS	Vertical	PK
10	5998.1999	-12.97	51.58	38.61	74.00	35.39	PASS	Vertical	PK
11	7441.2961	-11.34	63.10	51.76	74.00	22.24	PASS	Vertical	PK
12	13751.716	-1.70	46.73	45.03	74.00	28.97	PASS	Vertical	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 highest channel of GFSK 2M for HJSR77 Ble was recorded in the report.

Horizontal:

Test Graph

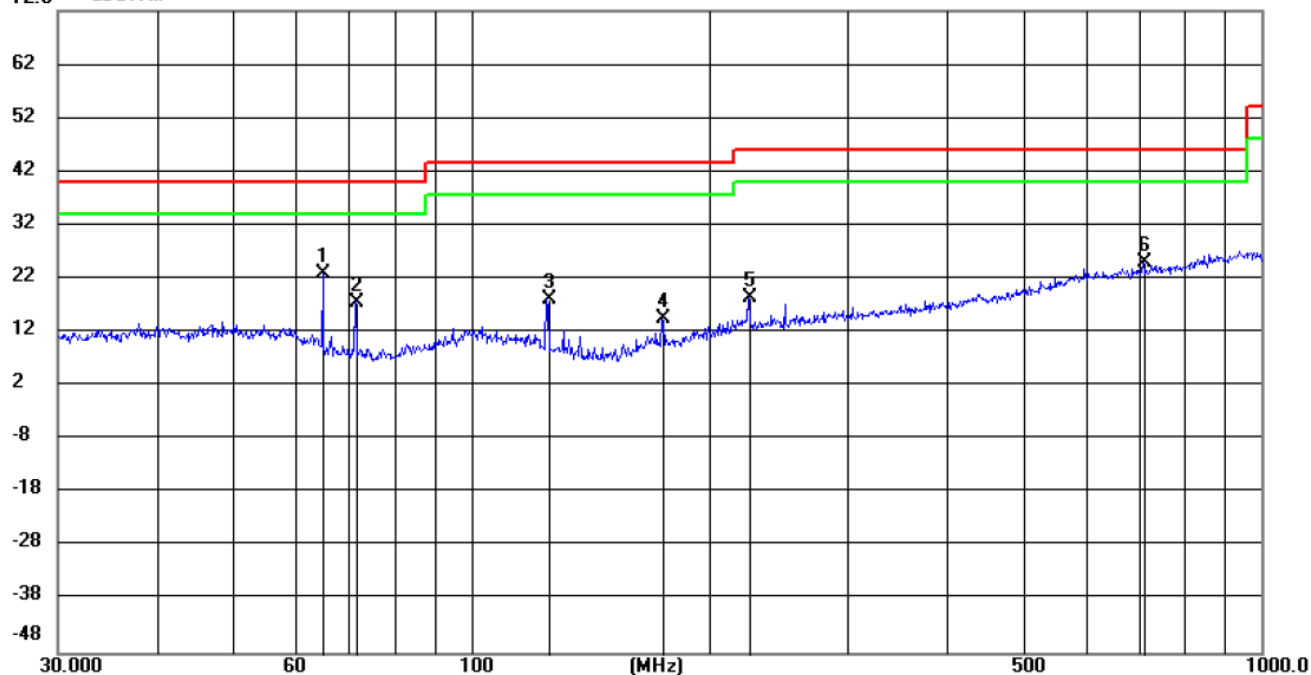


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		37.5808	0.53	13.35	13.88	40.00	-26.12	peak	100	7
2		58.5509	-0.35	13.03	12.68	40.00	-27.32	peak	199	332
3		124.9846	6.06	10.68	16.74	43.50	-26.76	peak	100	231
4		137.4924	4.20	9.26	13.46	43.50	-30.04	peak	100	251
5		304.1830	4.01	16.13	20.14	46.00	-25.86	peak	100	37
6	*	618.9708	0.63	22.39	23.02	46.00	-22.98	peak	199	95

Vertical:

Test Graph

72.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	64.9548	11.72	11.27	22.99	40.00	-17.01	peak	100	352	
2		71.4427	8.22	9.48	17.70	40.00	-22.30	peak	100	352	
3		125.0066	7.48	10.68	18.16	43.50	-25.34	peak	200	7	
4		175.0061	3.39	11.23	14.62	43.50	-28.88	peak	100	32	
5		225.0316	5.01	13.38	18.39	46.00	-27.61	peak	100	352	
6		711.1745	2.06	23.08	25.14	46.00	-20.86	peak	100	269	

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR77 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1593.4593	2.24	38.17	40.41	74.00	33.59	PASS	Horizo	PK
2	2023.7024	4.63	37.37	42.00	74.00	32.00	PASS	Horizo	PK
3	4803.1202	-16.23	57.47	41.24	74.00	32.76	PASS	Horizo	PK
4	7205.2804	-11.83	63.49	51.66	74.00	22.34	PASS	Horizo	PK
5	9607.4405	-7.37	49.55	42.18	74.00	31.82	PASS	Horizo	PK
6	12008.600	-5.30	54.05	48.75	74.00	25.25	PASS	Horizo	PK
7	1508.8509	1.54	37.57	39.11	74.00	34.89	PASS	Vertical	PK
8	1898.0898	4.02	36.30	40.32	74.00	33.68	PASS	Vertical	PK
9	4804.1203	-16.23	55.99	39.76	74.00	34.24	PASS	Vertical	PK
10	5995.1997	-12.99	56.93	43.94	74.00	30.06	PASS	Vertical	PK
11	7207.2805	-11.83	59.22	47.39	74.00	26.61	PASS	Vertical	PK
12	12008.600	-5.30	53.36	48.06	74.00	25.94	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR77 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1627.2627	2.47	38.02	40.49	74.00	33.51	PASS	Horizo	PK
2	2056.3056	4.74	37.85	42.59	74.00	31.41	PASS	Horizo	PK
3	3331.0221	-19.93	53.22	33.29	74.00	40.71	PASS	Horizo	PK
4	4879.1253	-16.21	57.42	41.21	74.00	32.79	PASS	Horizo	PK
5	7319.288	-11.65	64.03	52.38	74.00	21.62	PASS	Horizo	PK
6	9761.4508	-7.51	53.43	45.92	74.00	28.08	PASS	Horizo	PK
7	1514.2514	1.58	37.49	39.07	74.00	34.93	PASS	Vertical	PK
8	2014.1014	4.60	37.02	41.62	74.00	32.38	PASS	Vertical	PK
9	3993.0662	-18.91	54.98	36.07	74.00	37.93	PASS	Vertical	PK
10	4880.1253	-16.21	53.73	37.52	74.00	36.48	PASS	Vertical	PK
11	7319.288	-11.65	63.33	51.68	74.00	22.32	PASS	Vertical	PK
12	12198.613	-5.13	50.90	45.77	74.00	28.23	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR77 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1696.2696	2.92	37.65	40.57	74.00	33.43	PASS	Horizo	PK
2	2057.7058	4.74	36.97	41.71	74.00	32.29	PASS	Horizo	PK
3	4959.1306	-15.98	56.29	40.31	74.00	33.69	PASS	Horizo	PK
4	7439.296	-11.34	62.66	51.32	74.00	22.68	PASS	Horizo	PK
5	9920.4614	-7.10	50.79	43.69	74.00	30.31	PASS	Horizo	PK
6	16291.886	1.66	44.95	46.61	74.00	27.39	PASS	Horizo	PK
7	1579.658	2.13	37.33	39.46	74.00	34.54	PASS	Vertical	PK
8	2092.9093	4.86	37.23	42.09	74.00	31.91	PASS	Vertical	PK
9	3312.0208	-19.85	54.15	34.30	74.00	39.70	PASS	Vertical	PK
10	4960.1307	-15.97	53.77	37.80	74.00	36.20	PASS	Vertical	PK
11	7439.296	-11.34	60.32	48.98	74.00	25.02	PASS	Vertical	PK
12	9921.4614	-7.10	49.45	42.35	74.00	31.65	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR77 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1451.6452	1.43	37.99	39.42	74.00	34.58	PASS	Horizo	PK
2	2104.3104	4.84	38.10	42.94	74.00	31.06	PASS	Horizo	PK
3	3493.0329	-20.03	54.74	34.71	74.00	39.29	PASS	Horizo	PK
4	4803.1202	-16.23	58.43	42.20	74.00	31.80	PASS	Horizo	PK
5	7204.2803	-11.84	61.44	49.60	74.00	24.40	PASS	Horizo	PK
6	9610.4407	-7.38	50.22	42.84	74.00	31.16	PASS	Horizo	PK
7	1572.4572	2.07	37.67	39.74	74.00	34.26	PASS	Vertical	PK
8	2070.5071	4.78	37.04	41.82	74.00	32.18	PASS	Vertical	PK
9	3349.0233	-20.00	57.08	37.08	74.00	36.92	PASS	Vertical	PK
10	4805.1203	-16.23	55.07	38.84	74.00	35.16	PASS	Vertical	PK
11	5978.1985	-13.10	57.29	44.19	74.00	29.81	PASS	Vertical	PK
12	12007.600	-5.30	51.96	46.66	74.00	27.34	PASS	Vertical	PK

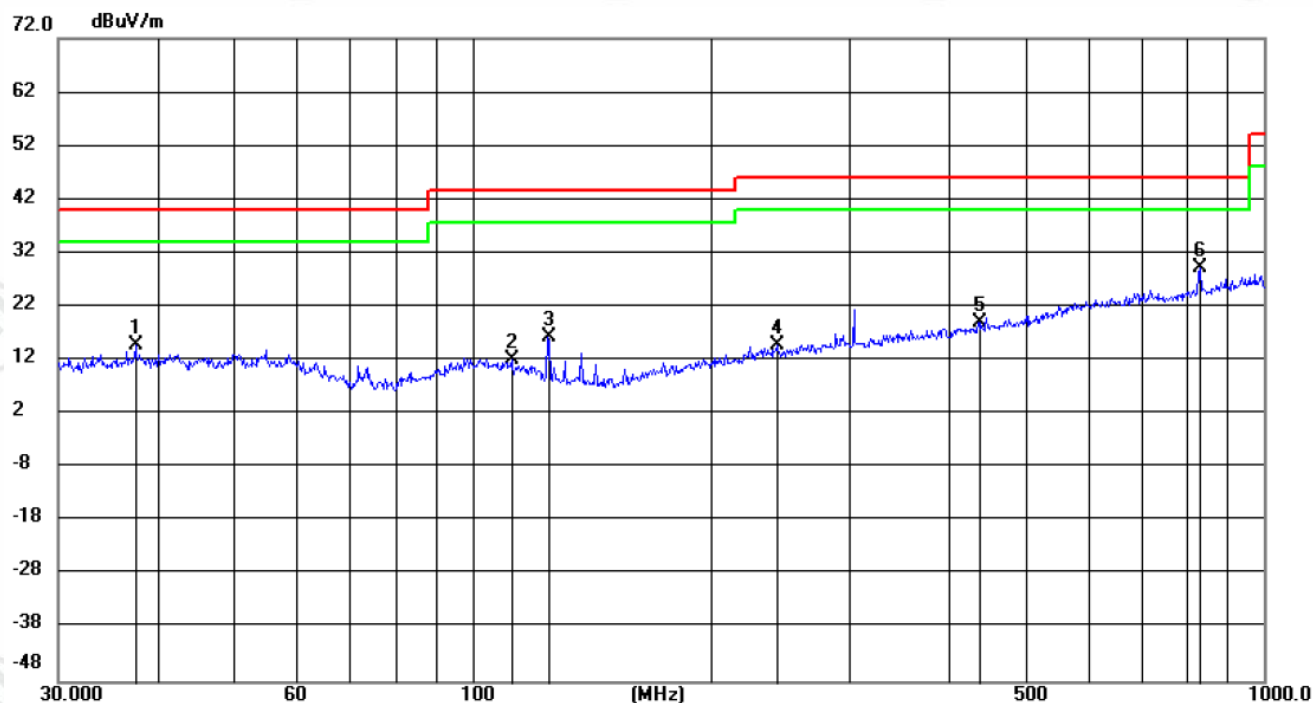
Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR77 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1492.0492	1.46	37.92	39.38	74.00	34.62	PASS	Horizo	PK
2	2039.704	4.69	36.75	41.44	74.00	32.56	PASS	Horizo	PK
3	3323.0215	-19.89	55.40	35.51	74.00	38.49	PASS	Horizo	PK
4	4879.1253	-16.21	58.10	41.89	74.00	32.11	PASS	Horizo	PK
5	7321.2881	-11.65	60.82	49.17	74.00	24.83	PASS	Horizo	PK
6	13216.681	-3.17	47.20	44.03	74.00	29.97	PASS	Horizo	PK
7	1551.2551	1.89	37.43	39.32	74.00	34.68	PASS	Vertical	PK
8	2114.1114	4.73	37.35	42.08	74.00	31.92	PASS	Vertical	PK
9	3327.0218	-19.91	56.24	36.33	74.00	37.67	PASS	Vertical	PK
10	4881.1254	-16.21	54.84	38.63	74.00	35.37	PASS	Vertical	PK
11	7319.288	-11.65	61.91	50.26	74.00	23.74	PASS	Vertical	PK
12	12197.613	-5.14	50.85	45.71	74.00	28.29	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR77 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1388.2388	1.35	37.98	39.33	74.00	34.67	PASS	Horizo	PK
2	2041.9042	4.69	36.86	41.55	74.00	32.45	PASS	Horizo	PK
3	3729.0486	-19.73	53.26	33.53	74.00	40.47	PASS	Horizo	PK
4	4959.1306	-15.98	55.63	39.65	74.00	34.35	PASS	Horizo	PK
5	7441.2961	-11.34	61.40	50.06	74.00	23.94	PASS	Horizo	PK
6	14289.752	-0.50	45.12	44.62	74.00	29.38	PASS	Horizo	PK
7	1416.6417	1.41	38.52	39.93	74.00	34.07	PASS	Vertical	PK
8	1968.4968	4.38	37.29	41.67	74.00	32.33	PASS	Vertical	PK
9	3996.0664	-18.90	53.63	34.73	74.00	39.27	PASS	Vertical	PK
10	7441.2961	-11.34	61.44	50.10	74.00	23.90	PASS	Vertical	PK
11	9977.4652	-7.19	50.75	43.56	74.00	30.44	PASS	Vertical	PK
12	14384.759	0.96	44.27	45.23	74.00	28.77	PASS	Vertical	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 highest channel of GFSK 2M for HJSR77B Ble was recorded in the report.

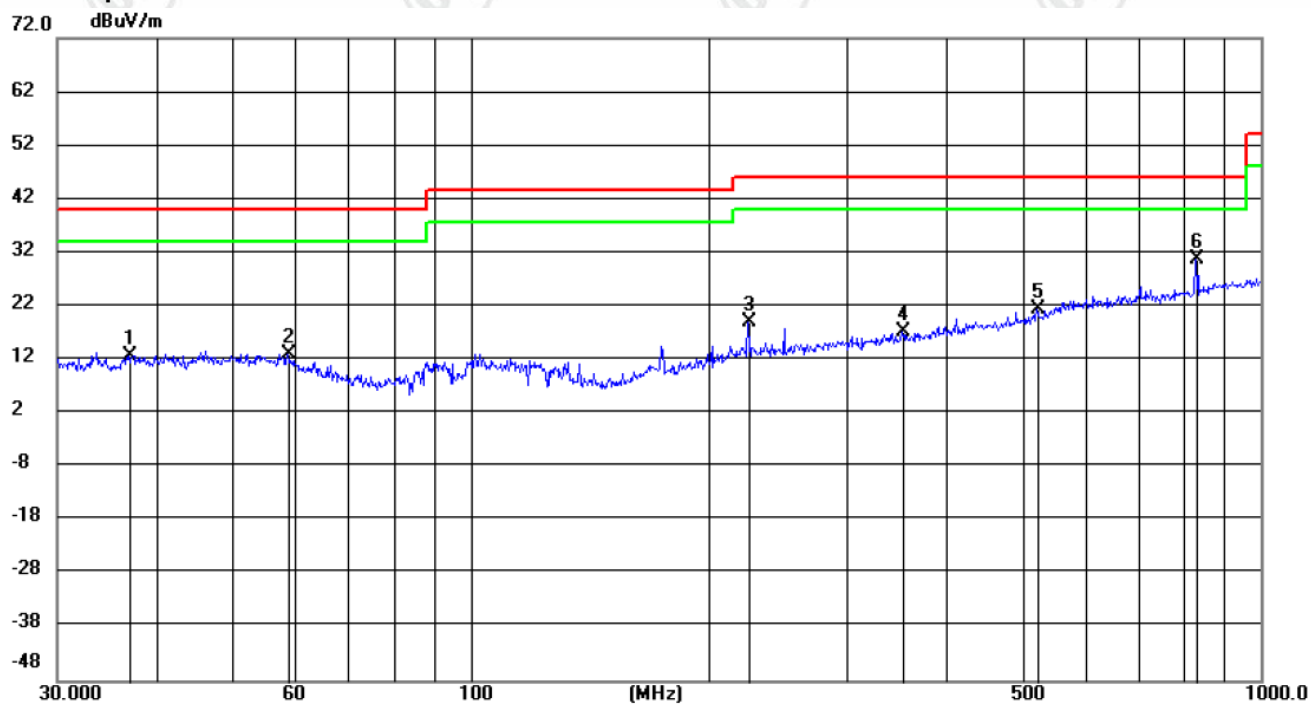
Horizontal:

Test Graph

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		37.6533	1.50	13.36	14.86	40.00	-25.14	peak	199	177
2		112.2091	-0.57	12.59	12.02	43.50	-31.48	peak	199	352
3		125.0065	5.77	10.68	16.45	43.50	-27.05	peak	100	322
4		243.1212	0.79	14.02	14.81	46.00	-31.19	peak	199	290
5		436.4307	0.61	18.50	19.11	46.00	-26.89	peak	100	301
6	*	830.4001	4.29	24.94	29.23	46.00	-16.77	peak	199	3

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		36.9536	-0.46	13.24	12.78	40.00	-27.22	peak	100	352
2		58.6743	-0.03	13.03	13.00	40.00	-27.00	peak	100	352
3		224.9922	5.78	13.37	19.15	46.00	-26.85	peak	100	352
4		352.1398	0.27	16.98	17.25	46.00	-28.75	peak	200	360
5		521.4365	1.39	20.20	21.59	46.00	-24.41	peak	100	352
6	*	829.5271	5.83	24.92	30.75	46.00	-15.25	peak	200	293

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR77B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1164.8165	0.81	39.68	40.49	74.00	33.51	PASS	Horizo	PK
2	2028.1028	4.64	36.66	41.30	74.00	32.70	PASS	Horizo	PK
3	4803.1202	-16.23	58.37	42.14	74.00	31.86	PASS	Horizo	PK
4	7207.2805	-11.83	64.78	52.95	74.00	21.05	PASS	Horizo	PK
5	9607.4405	-7.37	52.56	45.19	74.00	28.81	PASS	Horizo	PK
6	12008.600	-5.30	54.02	48.72	74.00	25.28	PASS	Horizo	PK
7	1137.2137	0.83	39.35	40.18	74.00	33.82	PASS	Vertical	PK
8	2056.9057	4.74	37.32	42.06	74.00	31.94	PASS	Vertical	PK
9	4804.1203	-16.23	58.45	42.22	74.00	31.78	PASS	Vertical	PK
10	7205.2804	-11.83	61.38	49.55	74.00	24.45	PASS	Vertical	PK
11	9607.4405	-7.37	52.08	44.71	74.00	29.29	PASS	Vertical	PK
12	12009.600	-5.30	53.60	48.30	74.00	25.70	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR77B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1385.4385	1.35	38.43	39.78	74.00	34.22	PASS	Horizo	PK
2	1839.4839	3.58	37.13	40.71	74.00	33.29	PASS	Horizo	PK
3	3298.0199	-19.81	52.83	33.02	74.00	40.98	PASS	Horizo	PK
4	4879.1253	-16.21	55.86	39.65	74.00	34.35	PASS	Horizo	PK
5	7321.2881	-11.65	63.48	51.83	74.00	22.17	PASS	Horizo	PK
6	9759.4506	-7.52	51.48	43.96	74.00	30.04	PASS	Horizo	PK
7	1432.4432	1.41	37.36	38.77	74.00	35.23	PASS	Vertical	PK
8	1978.4978	4.44	37.40	41.84	74.00	32.16	PASS	Vertical	PK
9	3329.0219	-19.92	57.59	37.67	74.00	36.33	PASS	Vertical	PK
10	4879.1253	-16.21	54.09	37.88	74.00	36.12	PASS	Vertical	PK
11	7321.2881	-11.65	63.39	51.74	74.00	22.26	PASS	Vertical	PK
12	12201.613	-5.13	50.19	45.06	74.00	28.94	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR77B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1318.0318	1.12	37.72	38.84	74.00	35.16	PASS	Horizo	PK
2	1986.6987	4.48	36.92	41.40	74.00	32.60	PASS	Horizo	PK
3	3317.0211	-19.86	52.41	32.55	74.00	41.45	PASS	Horizo	PK
4	4959.1306	-15.98	56.30	40.32	74.00	33.68	PASS	Horizo	PK
5	7439.296	-11.34	63.41	52.07	74.00	21.93	PASS	Horizo	PK
6	9919.4613	-7.10	50.23	43.13	74.00	30.87	PASS	Horizo	PK
7	1164.2164	0.81	41.93	42.74	74.00	31.26	PASS	Vertical	PK
8	1957.2957	4.33	36.54	40.87	74.00	33.13	PASS	Vertical	PK
9	3323.0215	-19.89	57.02	37.13	74.00	36.87	PASS	Vertical	PK
10	4959.1306	-15.98	52.97	36.99	74.00	37.01	PASS	Vertical	PK
11	7440.296	-11.34	63.22	51.88	74.00	22.12	PASS	Vertical	PK
12	12401.626	-4.69	52.19	47.50	74.00	26.50	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR77B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1196.4196	0.81	38.03	38.84	74.00	35.16	PASS	Horizo	PK
2	1839.4839	3.58	36.99	40.57	74.00	33.43	PASS	Horizo	PK
3	3318.0212	-19.87	54.18	34.31	74.00	39.69	PASS	Horizo	PK
4	4803.1202	-16.23	58.58	42.35	74.00	31.65	PASS	Horizo	PK
5	7204.2803	-11.84	63.66	51.82	74.00	22.18	PASS	Horizo	PK
6	12007.600	-5.30	50.90	45.60	74.00	28.40	PASS	Horizo	PK
7	1166.6167	0.82	39.75	40.57	74.00	33.43	PASS	Vertical	PK
8	1998.4998	4.54	35.91	40.45	74.00	33.55	PASS	Vertical	PK
9	3329.0219	-19.92	56.17	36.25	74.00	37.75	PASS	Vertical	PK
10	4805.1203	-16.23	55.31	39.08	74.00	34.92	PASS	Vertical	PK
11	7204.2803	-11.84	62.50	50.66	74.00	23.34	PASS	Vertical	PK
12	12007.600	-5.30	51.34	46.04	74.00	27.96	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR77B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1292.8293	1.04	37.49	38.53	74.00	35.47	PASS	Horizo	PK
2	2030.9031	4.65	36.90	41.55	74.00	32.45	PASS	Horizo	PK
3	3256.0171	-20.04	54.75	34.71	74.00	39.29	PASS	Horizo	PK
4	4879.1253	-16.21	56.09	39.88	74.00	34.12	PASS	Horizo	PK
5	7321.2881	-11.65	62.56	50.91	74.00	23.09	PASS	Horizo	PK
6	12197.613	-5.14	49.70	44.56	74.00	29.44	PASS	Horizo	PK
7	1255.8256	0.95	37.79	38.74	74.00	35.26	PASS	Vertical	PK
8	1953.0953	4.31	36.75	41.06	74.00	32.94	PASS	Vertical	PK
9	3323.0215	-19.89	57.48	37.59	74.00	36.41	PASS	Vertical	PK
10	4879.1253	-16.21	54.14	37.93	74.00	36.07	PASS	Vertical	PK
11	7318.2879	-11.66	63.19	51.53	74.00	22.47	PASS	Vertical	PK
12	11239.549	-6.51	47.00	40.49	74.00	33.51	PASS	Vertical	PK

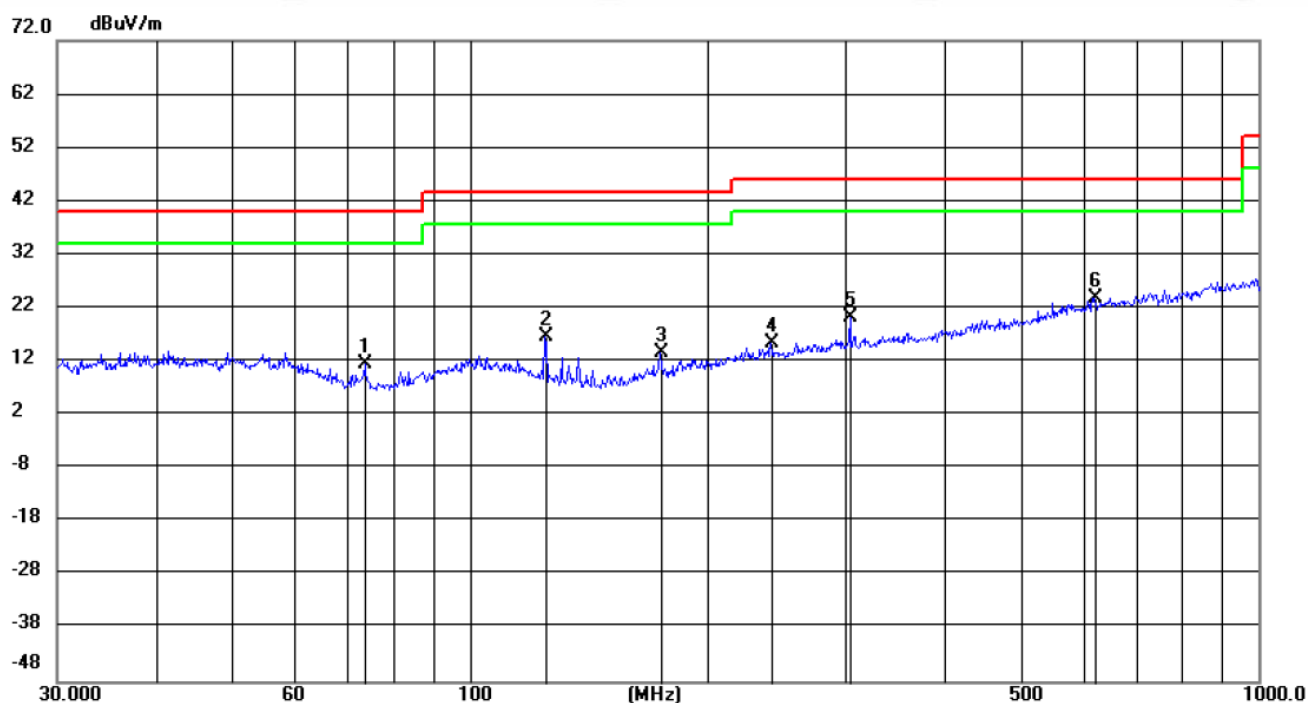
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR77B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1303.8304	1.07	37.34	38.41	74.00	35.59	PASS	Horizo	PK
2	1856.6857	3.70	36.41	40.11	74.00	33.89	PASS	Horizo	PK
3	3387.0258	-20.15	52.23	32.08	74.00	41.92	PASS	Horizo	PK
4	4959.1306	-15.98	56.69	40.71	74.00	33.29	PASS	Horizo	PK
5	6592.2395	-12.82	47.96	35.14	74.00	38.86	PASS	Horizo	PK
6	7438.2959	-11.35	63.14	51.79	74.00	22.21	PASS	Horizo	PK
7	1372.2372	1.30	37.20	38.50	74.00	35.50	PASS	Vertical	PK
8	1790.8791	3.25	36.74	39.99	74.00	34.01	PASS	Vertical	PK
9	3328.0219	-19.91	59.88	39.97	74.00	34.03	PASS	Vertical	PK
10	5973.1982	-13.13	64.03	50.90	74.00	23.10	PASS	Vertical	PK
11	7441.2961	-11.34	64.02	52.68	74.00	21.32	PASS	Vertical	PK
12	11818.587	-6.06	47.52	41.46	74.00	32.54	PASS	Vertical	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 highest channel of GFSK 2M for HJSR77C Ble was recorded in the report.

Horizontal:

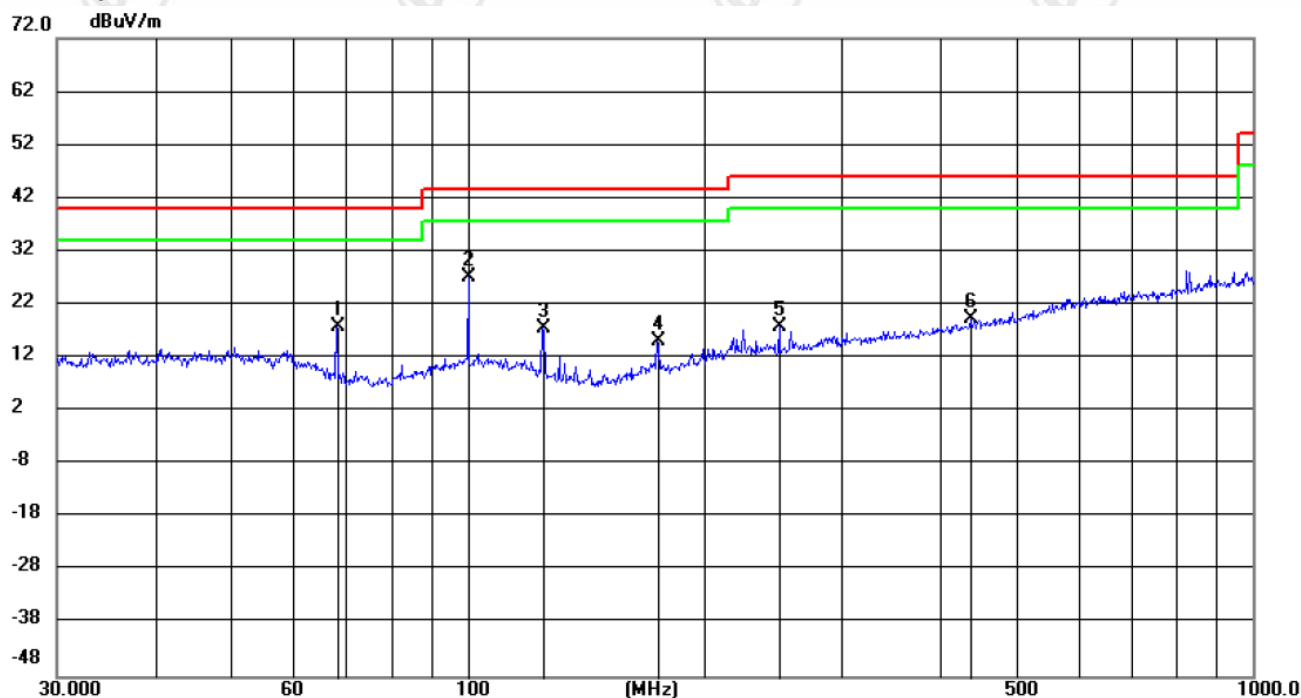
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		73.7590	2.26	9.36	11.62	40.00	-28.38	peak	170
2		125.0065	6.00	10.68	16.68	43.50	-26.82	peak	190
3		174.9753	2.31	11.23	13.54	43.50	-29.96	peak	0
4		241.1261	1.53	13.94	15.47	46.00	-30.53	peak	352
5		304.2363	4.08	16.13	20.21	46.00	-25.79	peak	352
6	*	619.5136	1.58	22.39	23.97	46.00	-22.03	peak	352

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		68.1633	7.55	10.17	17.72	40.00	-22.28	peak	100	352
2	*	100.4925	13.89	13.25	27.14	43.50	-16.36	peak	100	352
3		124.9847	6.80	10.68	17.48	43.50	-26.02	peak	200	253
4		175.0061	3.89	11.23	15.12	43.50	-28.38	peak	100	301
5		249.9942	3.65	14.26	17.91	46.00	-28.09	peak	100	352
6		438.5016	0.74	18.54	19.28	46.00	-26.72	peak	200	150

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR77C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1664.2664	2.70	37.71	40.41	74.00	33.59	PASS	Horizo	PK
2	2076.1076	4.80	36.71	41.51	74.00	32.49	PASS	Horizo	PK
3	4803.1202	-16.23	57.87	41.64	74.00	32.36	PASS	Horizo	PK
4	7207.2805	-11.83	64.28	52.45	74.00	21.55	PASS	Horizo	PK
5	9607.4405	-7.37	52.06	44.69	74.00	29.31	PASS	Horizo	PK
6	12008.600	-5.30	53.52	48.22	74.00	25.78	PASS	Horizo	PK
7	1486.8487	1.46	37.53	38.99	74.00	35.01	PASS	Vertical	PK
8	2023.1023	4.62	37.39	42.01	74.00	31.99	PASS	Vertical	PK
9	3320.0213	-19.88	58.90	39.02	74.00	34.98	PASS	Vertical	PK
10	4804.1203	-16.23	58.45	42.22	74.00	31.78	PASS	Vertical	PK
11	7205.2804	-11.83	60.88	49.05	74.00	24.95	PASS	Vertical	PK
12	9607.4405	-7.37	51.58	44.21	74.00	29.79	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR77C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1490.449	1.46	38.08	39.54	74.00	34.46	PASS	Horizo	PK
2	1990.299	4.50	37.44	41.94	74.00	32.06	PASS	Horizo	PK
3	3744.0496	-19.62	53.39	33.77	74.00	40.23	PASS	Horizo	PK
4	4879.1253	-16.21	55.36	39.15	74.00	34.85	PASS	Horizo	PK
5	7321.2881	-11.65	62.98	51.33	74.00	22.67	PASS	Horizo	PK
6	12201.613	-5.13	50.26	45.13	74.00	28.87	PASS	Horizo	PK
7	1548.0548	1.87	37.37	39.24	74.00	34.76	PASS	Vertical	PK
8	2038.7039	4.67	37.20	41.87	74.00	32.13	PASS	Vertical	PK
9	3329.0219	-19.92	57.59	37.67	74.00	36.33	PASS	Vertical	PK
10	4879.1253	-16.21	54.09	37.88	74.00	36.12	PASS	Vertical	PK
11	7321.2881	-11.65	62.89	51.24	74.00	22.76	PASS	Vertical	PK
12	12201.613	-5.13	50.19	45.06	74.00	28.94	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR77C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1545.2545	1.84	37.59	39.43	74.00	34.57	PASS	Horizo	PK
2	2063.5064	4.76	37.44	42.20	74.00	31.80	PASS	Horizo	PK
3	3495.033	-20.03	52.45	32.42	74.00	41.58	PASS	Horizo	PK
4	4959.1306	-15.98	56.30	40.32	74.00	33.68	PASS	Horizo	PK
5	7439.296	-11.34	62.91	51.57	74.00	22.43	PASS	Horizo	PK
6	9919.4613	-7.10	50.23	43.13	74.00	30.87	PASS	Horizo	PK
7	1542.2542	1.82	38.21	40.03	74.00	33.97	PASS	Vertical	PK
8	2005.7006	4.57	36.94	41.51	74.00	32.49	PASS	Vertical	PK
9	3323.0215	-19.89	56.52	36.63	74.00	37.37	PASS	Vertical	PK
10	6637.2425	-12.70	53.63	40.93	74.00	33.07	PASS	Vertical	PK
11	7440.296	-11.34	62.72	51.38	74.00	22.62	PASS	Vertical	PK
12	12401.626	-4.69	51.69	47.00	74.00	27.00	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR77C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1398.6399	1.39	38.73	40.12	74.00	33.88	PASS	Horizo	PK
2	2045.1045	4.70	37.70	42.40	74.00	31.60	PASS	Horizo	PK
3	3804.0536	-19.24	53.91	34.67	74.00	39.33	PASS	Horizo	PK
4	4803.1202	-16.23	58.58	42.35	74.00	31.65	PASS	Horizo	PK
5	7204.2803	-11.84	63.16	51.32	74.00	22.68	PASS	Horizo	PK
6	12007.600	-5.30	50.40	45.10	74.00	28.90	PASS	Horizo	PK
7	1447.2447	1.43	37.75	39.18	74.00	34.82	PASS	Vertical	PK
8	2105.5106	4.82	37.90	42.72	74.00	30.78	PASS	Vertical	PK
9	3428.0285	-20.15	56.11	35.96	74.00	38.04	PASS	Vertical	PK
10	5319.1546	-14.76	57.10	42.34	74.00	31.66	PASS	Vertical	PK
11	7204.2803	-11.84	62.00	50.16	74.00	23.84	PASS	Vertical	PK
12	12007.600	-5.30	51.34	46.04	74.00	27.96	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR77C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1612.4612	2.37	37.48	39.85	74.00	34.15	PASS	Horizo	PK
2	2094.7095	4.86	37.14	42.00	74.00	32.00	PASS	Horizo	PK
3	3236.0157	-20.16	54.76	34.60	74.00	39.40	PASS	Horizo	PK
4	4879.1253	-16.21	55.59	39.38	74.00	34.62	PASS	Horizo	PK
5	7321.2881	-11.65	62.06	50.41	74.00	23.59	PASS	Horizo	PK
6	13734.715	-1.72	47.29	45.57	74.00	28.43	PASS	Horizo	PK
7	1421.0421	1.41	37.29	38.70	74.00	35.30	PASS	Vertical	PK
8	2012.9013	4.59	37.41	42.00	74.00	32.00	PASS	Vertical	PK
9	3323.0215	-19.89	56.98	37.09	74.00	36.91	PASS	Vertical	PK
10	4879.1253	-16.21	53.64	37.43	74.00	36.57	PASS	Vertical	PK
11	7318.2879	-11.66	62.69	51.03	74.00	22.97	PASS	Vertical	PK
12	13674.711	-1.74	46.75	45.01	74.00	28.99	PASS	Vertical	PK

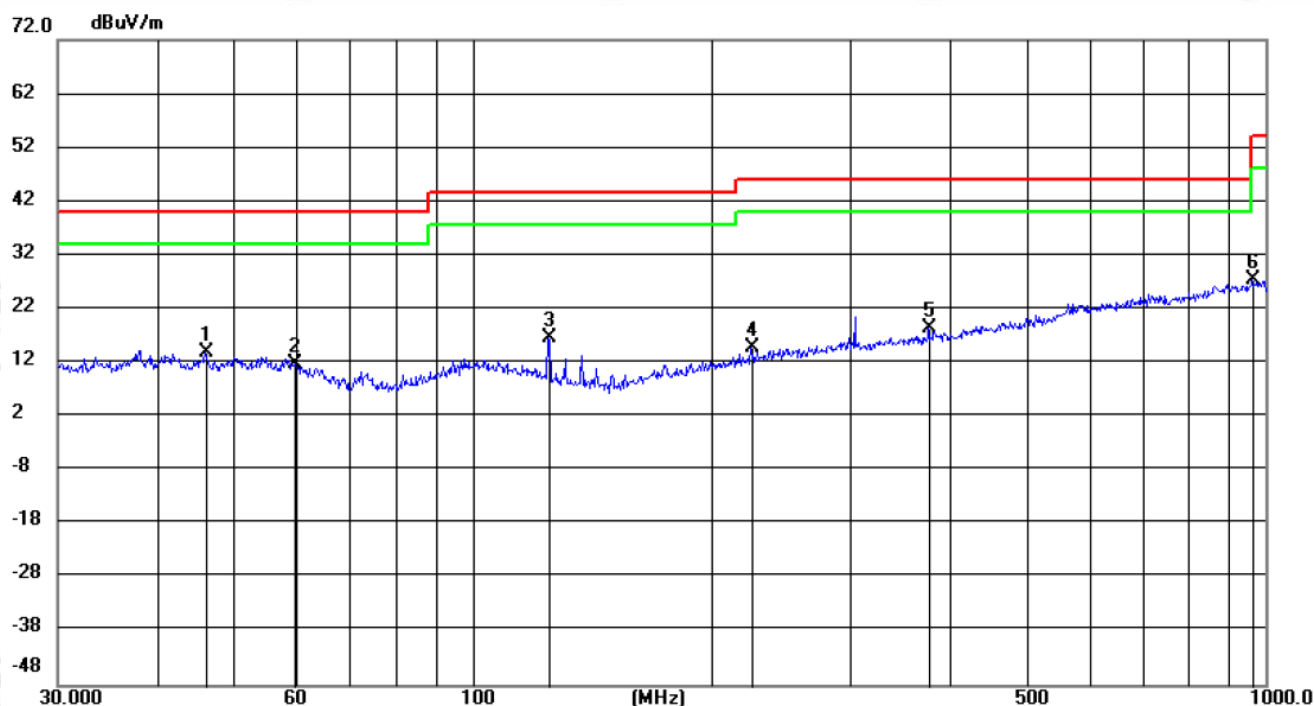
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR77C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1489.2489	1.46	38.33	39.79	74.00	34.21	PASS	Horizo	PK
2	2071.7072	4.79	37.11	41.90	74.00	32.10	PASS	Horizo	PK
3	3563.0375	-20.24	53.22	32.98	74.00	41.02	PASS	Horizo	PK
4	4959.1306	-15.98	56.19	40.21	74.00	33.79	PASS	Horizo	PK
5	7438.2959	-11.35	62.64	51.29	74.00	22.71	PASS	Horizo	PK
6	13728.715	-1.73	46.61	44.88	74.00	29.12	PASS	Horizo	PK
7	1400.44	1.39	37.96	39.35	74.00	34.65	PASS	Vertical	PK
8	2046.3046	4.70	36.99	41.69	74.00	32.31	PASS	Vertical	PK
9	3328.0219	-19.91	59.38	39.47	74.00	34.53	PASS	Vertical	PK
10	5973.1982	-13.13	63.53	50.40	74.00	23.60	PASS	Vertical	PK
11	7441.2961	-11.34	63.52	52.18	74.00	21.82	PASS	Vertical	PK
12	14355.757	0.49	44.36	44.85	74.00	29.15	PASS	Vertical	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 highest channel of GFSK 2M for HJSR32 Ble was recorded in the report.

Horizontal:

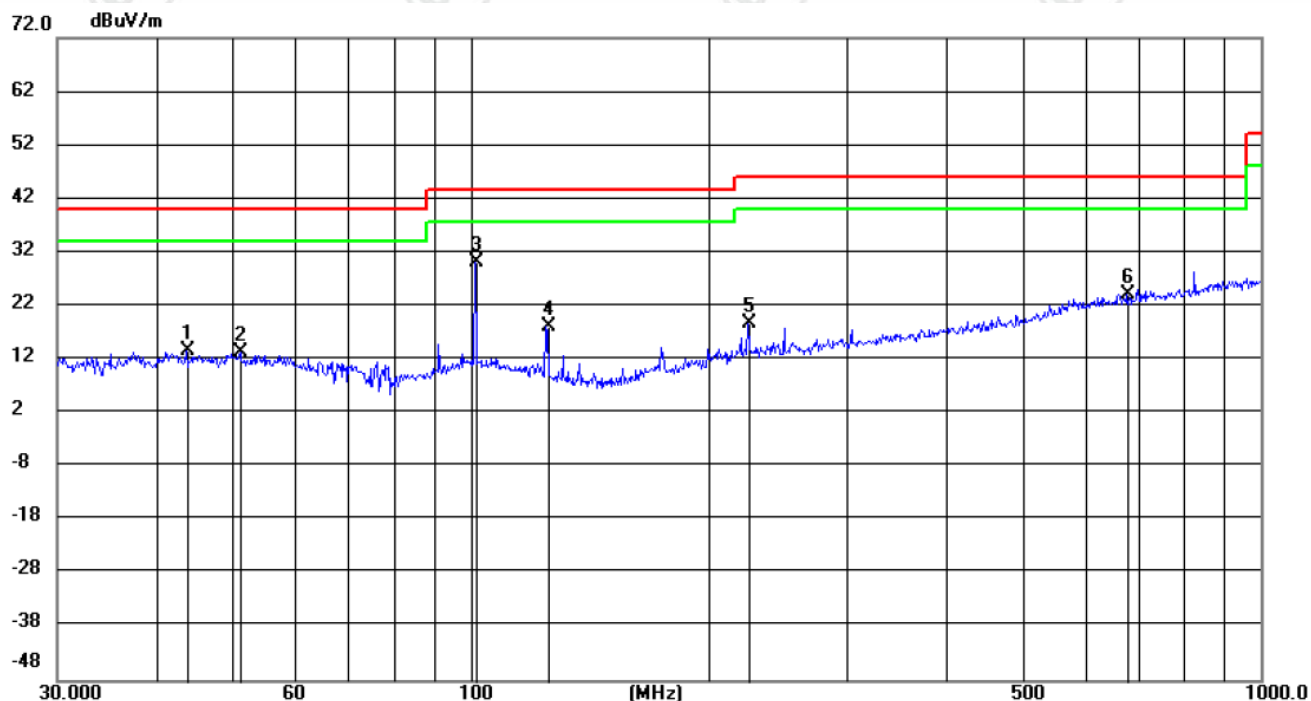
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	46.1699	0.28	13.61	13.89	40.00	-26.11	peak	200
2		59.7435	-1.05	12.97	11.92	40.00	-28.08	peak	200
3		125.0065	6.02	10.68	16.70	43.50	-26.80	peak	100
4		224.9921	1.49	13.37	14.86	46.00	-31.14	peak	200
5		377.1268	1.05	17.43	18.48	46.00	-27.52	peak	200
6		963.1749	1.09	26.29	27.38	54.00	-26.62	peak	100

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		43.6662	0.01	13.66	13.67	40.00	-26.33	peak	200	251
2		51.2645	-0.07	13.46	13.39	40.00	-26.61	peak	100	208
3	*	101.4840	16.81	13.21	30.02	43.50	-13.48	peak	100	352
4		125.0066	7.48	10.68	18.16	43.50	-25.34	peak	200	7
5		224.9922	5.35	13.37	18.72	46.00	-27.28	peak	100	321
6		678.5309	1.44	22.76	24.20	46.00	-21.80	peak	100	12

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR32 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1341.6342	1.20	38.14	39.34	74.00	34.66	PASS	Horizo	PK
2	1988.0988	4.49	36.80	41.29	74.00	32.71	PASS	Horizo	PK
3	4803.1202	-16.23	57.37	41.14	74.00	32.86	PASS	Horizo	PK
4	7207.2805	-11.83	63.78	51.95	74.00	22.05	PASS	Horizo	PK
5	9607.4405	-7.37	51.56	44.19	74.00	29.81	PASS	Horizo	PK
6	12008.600	-5.30	53.02	47.72	74.00	26.28	PASS	Horizo	PK
7	1163.6164	0.81	40.38	41.19	74.00	32.81	PASS	Vertical	PK
8	1839.0839	3.58	36.89	40.47	74.00	33.53	PASS	Vertical	PK
9	3320.0213	-19.88	58.40	38.52	74.00	35.48	PASS	Vertical	PK
10	4804.1203	-16.23	57.95	41.72	74.00	32.28	PASS	Vertical	PK
11	7205.2804	-11.83	60.38	48.55	74.00	25.45	PASS	Vertical	PK
12	12009.600	-5.30	53.10	47.80	74.00	26.20	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR32 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1344.4344	1.20	37.84	39.04	74.00	34.96	PASS	Horizo	PK
2	1990.299	4.50	36.94	41.44	74.00	32.56	PASS	Horizo	PK
3	3258.0172	-20.03	53.38	33.35	74.00	40.65	PASS	Horizo	PK
4	4879.1253	-16.21	54.36	38.15	74.00	35.85	PASS	Horizo	PK
5	7321.2881	-11.65	61.98	50.33	74.00	23.67	PASS	Horizo	PK
6	9759.4506	-7.52	50.98	43.46	74.00	30.54	PASS	Horizo	PK
7	1321.4321	1.13	37.06	38.19	74.00	35.81	PASS	Vertical	PK
8	2007.7008	4.57	36.67	41.24	74.00	32.76	PASS	Vertical	PK
9	3329.0219	-19.92	57.09	37.17	74.00	36.83	PASS	Vertical	PK
10	4879.1253	-16.21	53.59	37.38	74.00	36.62	PASS	Vertical	PK
11	7321.2881	-11.65	62.39	50.74	74.00	23.26	PASS	Vertical	PK
12	12201.613	-5.13	49.69	44.56	74.00	29.44	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR32 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1368.4368	1.29	37.07	38.36	74.00	35.64	PASS	Horizo	PK
2	1902.2902	4.05	36.43	40.48	74.00	33.52	PASS	Horizo	PK
3	3419.0279	-20.16	52.09	31.93	74.00	42.07	PASS	Horizo	PK
4	4959.1306	-15.98	55.80	39.82	74.00	34.18	PASS	Horizo	PK
5	7439.296	-11.34	62.41	51.07	74.00	22.93	PASS	Horizo	PK
6	9919.4613	-7.10	49.73	42.63	74.00	31.37	PASS	Horizo	PK
7	1164.2164	0.81	41.43	42.24	74.00	31.76	PASS	Vertical	PK
8	1791.6792	3.26	37.20	40.46	74.00	33.54	PASS	Vertical	PK
9	3323.0215	-19.89	56.02	36.13	74.00	37.87	PASS	Vertical	PK
10	4959.1306	-15.98	52.47	36.49	74.00	37.51	PASS	Vertical	PK
11	6637.2425	-12.70	53.13	40.43	74.00	33.57	PASS	Vertical	PK
12	7440.296	-11.34	62.22	50.88	74.00	23.12	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR32 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1268.6269	0.98	37.95	38.93	74.00	35.07	PASS	Horizo	PK
2	1974.0974	4.42	37.02	41.44	74.00	32.56	PASS	Horizo	PK
3	3413.0275	-20.17	54.07	33.90	74.00	40.10	PASS	Horizo	PK
4	4803.1202	-16.23	58.08	41.85	74.00	32.15	PASS	Horizo	PK
5	7204.2803	-11.84	62.66	50.82	74.00	23.18	PASS	Horizo	PK
6	12007.600	-5.30	49.90	44.60	74.00	29.40	PASS	Horizo	PK
7	1273.8274	0.99	37.28	38.27	74.00	35.73	PASS	Vertical	PK
8	1948.6949	4.28	35.90	40.18	74.00	33.82	PASS	Vertical	PK
9	3983.0655	-18.92	55.94	37.02	74.00	36.98	PASS	Vertical	PK
10	4805.1203	-16.23	54.81	38.58	74.00	35.42	PASS	Vertical	PK
11	7204.2803	-11.84	61.50	49.66	74.00	24.34	PASS	Vertical	PK
12	12007.600	-5.30	50.84	45.54	74.00	28.46	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR32 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1315.4315	1.12	37.48	38.60	74.00	35.40	PASS	Horizo	PK
2	1873.2873	3.83	36.42	40.25	74.00	33.75	PASS	Horizo	PK
3	3347.0231	-19.99	53.80	33.81	74.00	40.19	PASS	Horizo	PK
4	4879.1253	-16.21	55.09	38.88	74.00	35.12	PASS	Horizo	PK
5	7321.2881	-11.65	61.56	49.91	74.00	24.09	PASS	Horizo	PK
6	12197.613	-5.14	49.20	44.06	74.00	29.94	PASS	Horizo	PK
7	1286.2286	1.03	37.03	38.06	74.00	35.94	PASS	Vertical	PK
8	1814.2814	3.38	36.16	39.54	74.00	34.46	PASS	Vertical	PK
9	3323.0215	-19.89	56.48	36.59	74.00	37.41	PASS	Vertical	PK
10	4879.1253	-16.21	53.14	36.93	74.00	37.07	PASS	Vertical	PK
11	7318.2879	-11.66	61.69	50.03	74.00	23.97	PASS	Vertical	PK
12	11965.597	-5.45	48.15	42.70	74.00	31.30	PASS	Vertical	PK

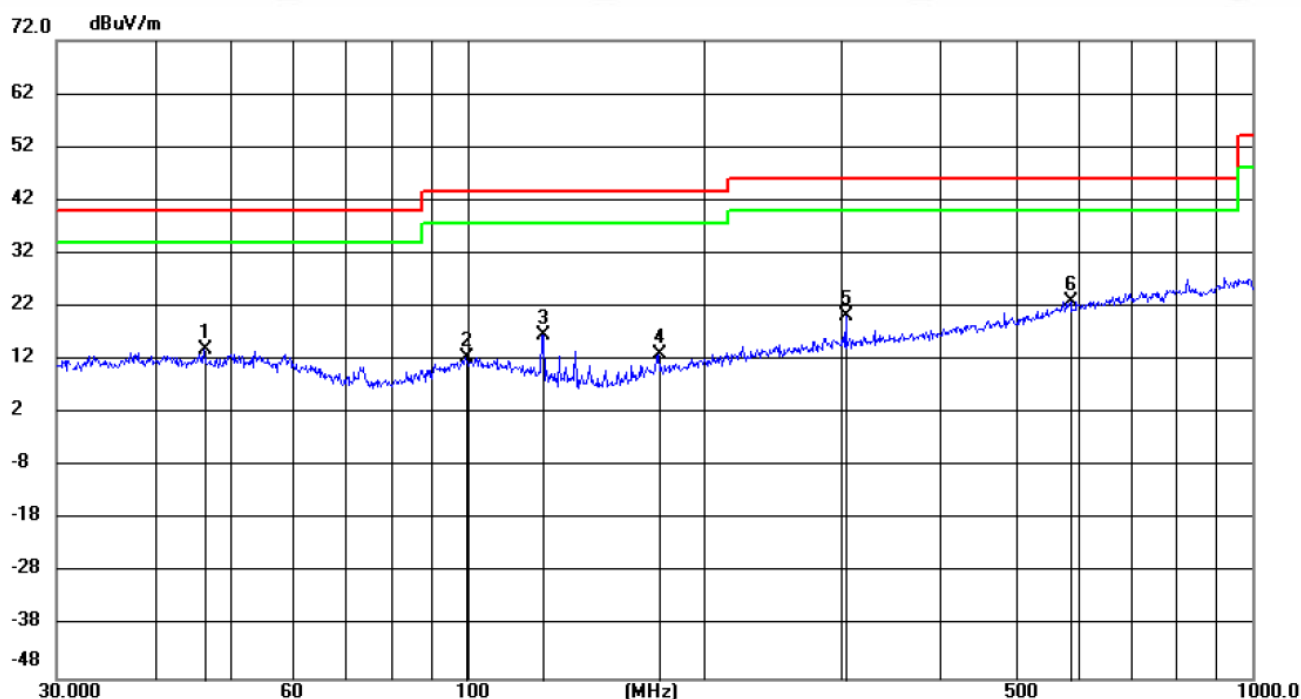
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR32 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1358.2358	1.25	37.08	38.33	74.00	35.67	PASS	Horizo	PK
2	1976.6977	4.43	37.05	41.48	74.00	32.52	PASS	Horizo	PK
3	3306.0204	-19.83	53.56	33.73	74.00	40.27	PASS	Horizo	PK
4	4959.1306	-15.98	55.69	39.71	74.00	34.29	PASS	Horizo	PK
5	7438.2959	-11.35	61.64	50.29	74.00	23.71	PASS	Horizo	PK
6	11894.593	-5.84	48.19	42.35	74.00	31.65	PASS	Horizo	PK
7	1296.8297	1.05	36.95	38.00	74.00	36.00	PASS	Vertical	PK
8	1847.6848	3.63	36.68	40.31	74.00	33.69	PASS	Vertical	PK
9	3328.0219	-19.91	58.38	38.47	74.00	35.53	PASS	Vertical	PK
10	5973.1982	-13.13	62.53	49.40	74.00	24.60	PASS	Vertical	PK
11	7441.2961	-11.34	62.52	51.18	74.00	22.82	PASS	Vertical	PK
12	9918.4612	-7.10	50.18	43.08	74.00	30.92	PASS	Vertical	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 highest channel of GFSK 2M for HJSR32B Ble was recorded in the report.

Horizontal:

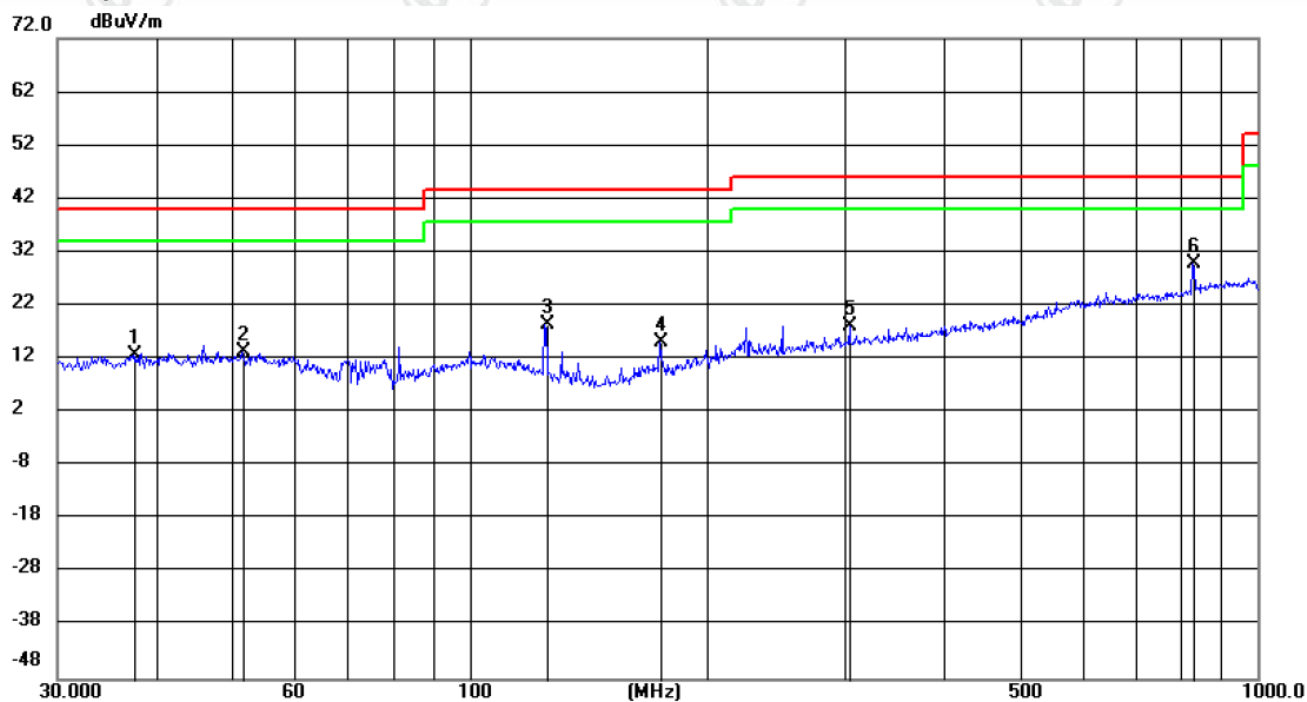
Test Graph



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		46.2427	0.43	13.61	14.04	40.00	-25.96	peak	199	352	
2		99.7377	-0.84	13.22	12.38	43.50	-31.12	peak	199	75	
3		125.0065	6.11	10.68	16.79	43.50	-26.71	peak	100	78	
4		175.0674	1.80	11.23	13.03	43.50	-30.47	peak	199	311	
5		304.2896	4.08	16.13	20.21	46.00	-25.79	peak	100	301	
6	*	586.9465	1.16	21.92	23.08	46.00	-22.92	peak	199	85	

Vertical:

Test Graph



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		37.4558	-0.66	13.32	12.66	40.00	-27.34	peak	100	218	
2		51.5349	-0.10	13.45	13.35	40.00	-26.65	peak	100	85	
3		125.0066	7.84	10.68	18.52	43.50	-24.98	peak	200	7	
4		175.0061	4.04	11.23	15.27	43.50	-28.23	peak	100	300	
5		304.2363	2.14	16.13	18.27	46.00	-27.73	peak	100	352	
6	*	828.3644	5.05	24.90	29.95	46.00	-16.05	peak	200	293	

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR32B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1254.6255	0.94	38.17	39.11	74.00	34.89	PASS	Horizo	PK
2	1850.285	3.66	37.76	41.42	74.00	32.58	PASS	Horizo	PK
3	4803.1202	-16.23	57.97	41.74	74.00	32.26	PASS	Horizo	PK
4	7205.2804	-11.83	63.99	52.16	74.00	21.84	PASS	Horizo	PK
5	9607.4405	-7.37	50.05	42.68	74.00	31.32	PASS	Horizo	PK
6	12008.600	-5.30	54.55	49.25	74.00	24.75	PASS	Horizo	PK
7	1312.8313	1.10	39.35	40.45	74.00	33.55	PASS	Vertical	PK
8	1971.0971	4.40	37.25	41.65	74.00	32.35	PASS	Vertical	PK
9	3445.0297	-20.12	56.16	36.04	74.00	37.96	PASS	Vertical	PK
10	4804.1203	-16.23	56.49	40.26	74.00	33.74	PASS	Vertical	PK
11	7207.2805	-11.83	59.22	47.39	74.00	26.61	PASS	Vertical	PK
12	9609.4406	-7.38	52.58	45.20	74.00	28.80	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR32B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1434.0434	1.41	38.70	40.11	74.00	33.89	PASS	Horizo	PK
2	2056.3056	4.74	37.85	42.59	74.00	31.41	PASS	Horizo	PK
3	4879.1253	-16.21	57.92	41.71	74.00	32.29	PASS	Horizo	PK
4	7319.288	-11.65	65.03	53.38	74.00	20.62	PASS	Horizo	PK
5	9761.4508	-7.51	53.43	45.92	74.00	28.08	PASS	Horizo	PK
6	12199.613	-5.12	50.28	45.16	74.00	28.84	PASS	Horizo	PK
7	1340.434	1.19	37.72	38.91	74.00	35.09	PASS	Vertical	PK
8	1748.6749	3.10	36.88	39.98	74.00	34.02	PASS	Vertical	PK
9	3807.0538	-19.23	52.53	33.30	74.00	40.70	PASS	Vertical	PK
10	4880.1253	-16.21	53.73	37.52	74.00	36.48	PASS	Vertical	PK
11	7319.288	-11.65	63.33	51.68	74.00	22.32	PASS	Vertical	PK
12	12198.613	-5.13	51.40	46.27	74.00	27.73	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR32B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1406.0406	1.40	38.11	39.51	74.00	34.49	PASS	Horizo	PK
2	1829.883	3.51	37.10	40.61	74.00	33.39	PASS	Horizo	PK
3	3805.0537	-19.24	52.16	32.92	74.00	41.08	PASS	Horizo	PK
4	4959.1306	-15.98	56.29	40.31	74.00	33.69	PASS	Horizo	PK
5	7439.296	-11.34	63.16	51.82	74.00	22.18	PASS	Horizo	PK
6	12398.626	-4.70	49.18	44.48	74.00	29.52	PASS	Horizo	PK
7	1161.8162	0.82	41.40	42.22	74.00	31.78	PASS	Vertical	PK
8	1795.0795	3.27	38.24	41.51	74.00	32.49	PASS	Vertical	PK
9	4135.0757	-18.13	50.26	32.13	74.00	41.87	PASS	Vertical	PK
10	7439.296	-11.34	60.32	48.98	74.00	25.02	PASS	Vertical	PK
11	9921.4614	-7.10	49.95	42.85	74.00	31.15	PASS	Vertical	PK
12	16316.887	1.35	45.18	46.53	74.00	27.47	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR32B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1166.2166	0.82	40.12	40.94	74.00	33.06	PASS	Horizo	PK
2	1684.8685	2.84	36.68	39.52	74.00	34.48	PASS	Horizo	PK
3	4803.1202	-16.23	58.43	42.20	74.00	31.80	PASS	Horizo	PK
4	7204.2803	-11.84	61.94	50.10	74.00	23.90	PASS	Horizo	PK
5	9610.4407	-7.38	50.72	43.34	74.00	30.66	PASS	Horizo	PK
6	16271.884	1.50	45.22	46.72	74.00	27.28	PASS	Horizo	PK
7	1165.8166	0.82	39.85	40.67	74.00	33.33	PASS	Vertical	PK
8	1877.4877	3.86	37.02	40.88	74.00	33.12	PASS	Vertical	PK
9	4805.1203	-16.23	55.57	39.34	74.00	34.66	PASS	Vertical	PK
10	5978.1985	-13.10	57.79	44.69	74.00	29.31	PASS	Vertical	PK
11	7204.2803	-11.84	54.87	43.03	74.00	30.97	PASS	Vertical	PK
12	12007.600	-5.30	52.46	47.16	74.00	26.84	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR32B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1282.4282	1.01	37.46	38.47	74.00	35.53	PASS	Horizo	PK
2	1856.8857	3.71	36.36	40.07	74.00	33.93	PASS	Horizo	PK
3	3323.0215	-19.89	55.90	36.01	74.00	37.99	PASS	Horizo	PK
4	4879.1253	-16.21	58.60	42.39	74.00	31.61	PASS	Horizo	PK
5	7321.2881	-11.65	61.32	49.67	74.00	24.33	PASS	Horizo	PK
6	16298.886	1.72	45.80	47.52	74.00	26.48	PASS	Horizo	PK
7	1163.0163	0.82	38.28	39.10	74.00	34.90	PASS	Vertical	PK
8	2042.5042	4.69	36.06	40.75	74.00	33.25	PASS	Vertical	PK
9	3465.031	-20.08	56.76	36.68	74.00	37.32	PASS	Vertical	PK
10	5994.1996	-13.00	56.44	43.44	74.00	30.56	PASS	Vertical	PK
11	7319.288	-11.65	62.41	50.76	74.00	23.24	PASS	Vertical	PK
12	12197.613	-5.14	51.35	46.21	74.00	27.79	PASS	Vertical	PK

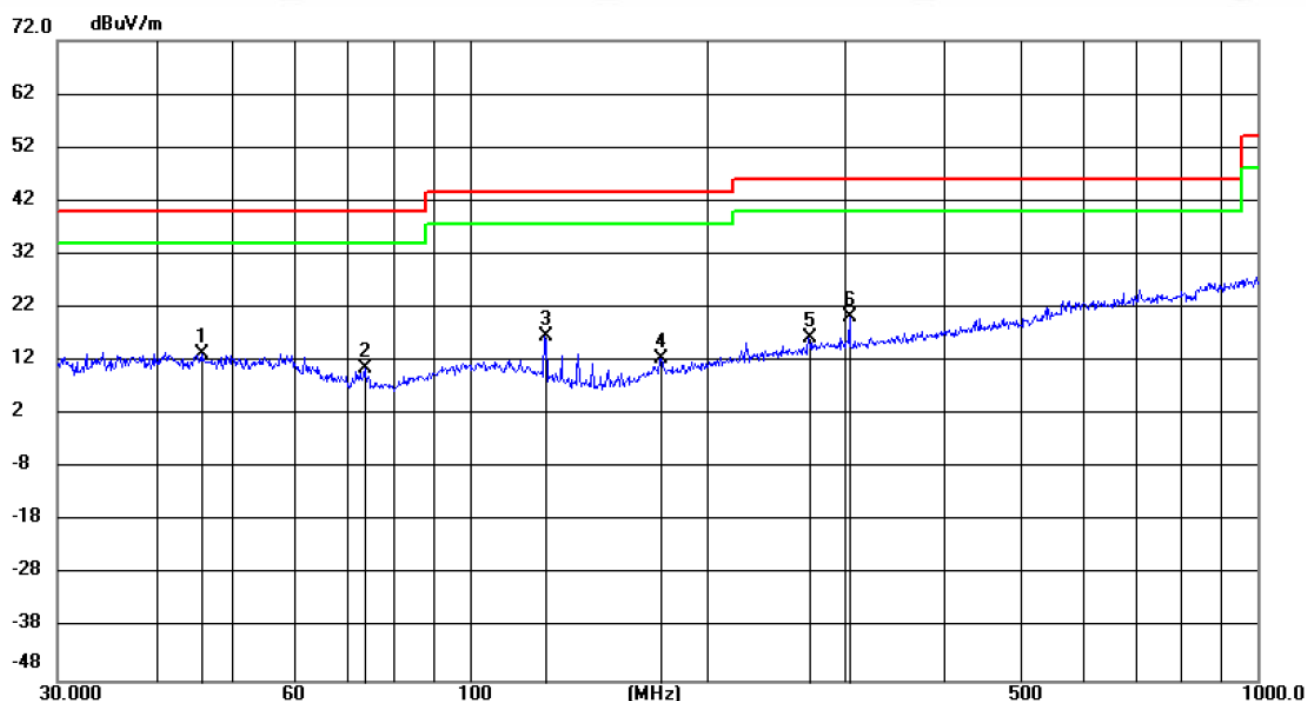
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR32B Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1258.4258	0.95	38.81	39.76	74.00	34.24	PASS	Horizo	PK
2	1695.6696	2.91	36.53	39.44	74.00	34.56	PASS	Horizo	PK
3	4959.1306	-15.98	56.13	40.15	74.00	33.85	PASS	Horizo	PK
4	5670.178	-14.03	49.11	35.08	74.00	38.92	PASS	Horizo	PK
5	7441.2961	-11.34	61.90	50.56	74.00	23.44	PASS	Horizo	PK
6	13755.717	-1.70	45.76	44.06	74.00	29.94	PASS	Horizo	PK
7	1288.2288	1.03	36.57	37.60	74.00	36.40	PASS	Vertical	PK
8	1942.2942	4.25	36.53	40.78	74.00	33.22	PASS	Vertical	PK
9	3332.0221	-19.93	56.67	36.74	74.00	37.26	PASS	Vertical	PK
10	4959.1306	-15.98	52.81	36.83	74.00	37.17	PASS	Vertical	PK
11	7441.2961	-11.34	61.44	50.10	74.00	23.90	PASS	Vertical	PK
12	9977.4652	-7.19	50.75	43.56	74.00	30.44	PASS	Vertical	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 highest channel of GFSK 2M for HJSR32C Ble was recorded in the report.

Horizontal:

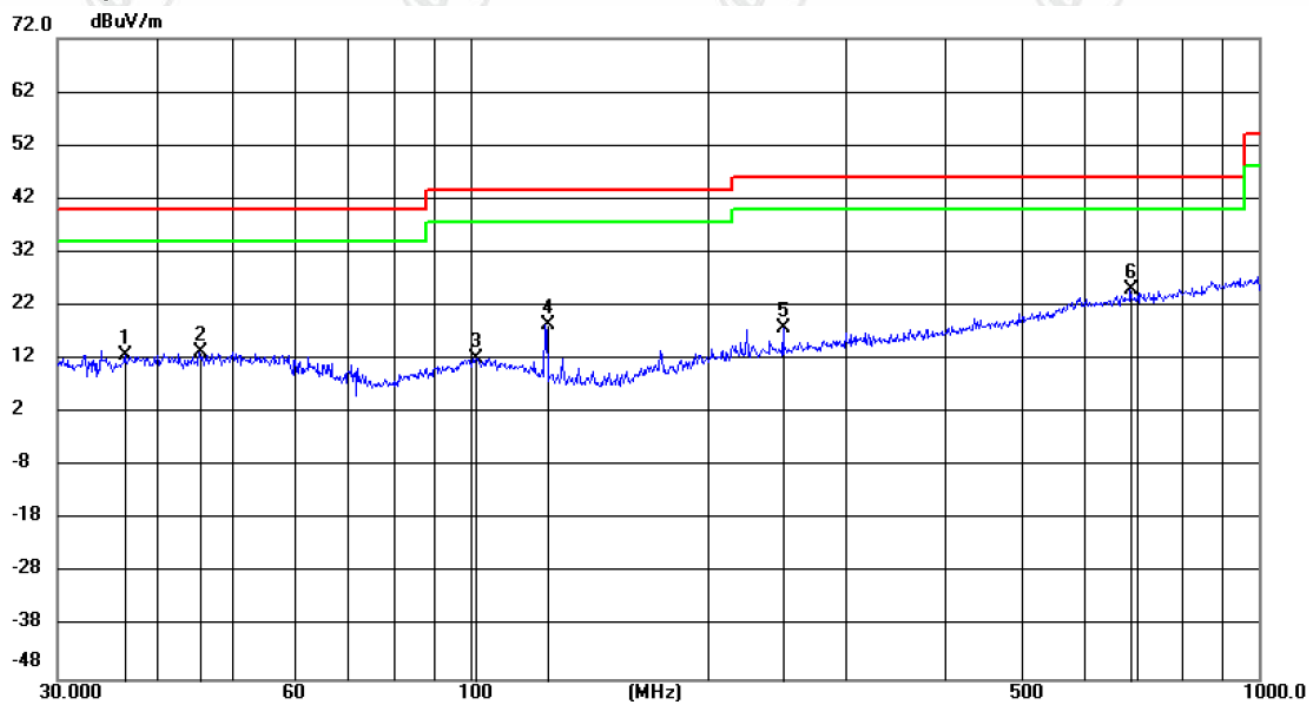
Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		45.7028	-0.33	13.62	13.29	40.00	-26.71	peak	100	78
2		73.7979	1.35	9.36	10.71	40.00	-29.29	peak	100	170
3		124.9846	5.91	10.68	16.59	43.50	-26.91	peak	100	360
4		175.0367	1.27	11.23	12.50	43.50	-31.00	peak	100	170
5		269.8538	1.40	14.98	16.38	46.00	-29.62	peak	100	7
6	*	304.1830	4.14	16.13	20.27	46.00	-25.73	peak	100	302

Vertical:

Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		36.6309	-0.39	13.19	12.80	40.00	-27.20	peak	100	321
2		45.5269	-0.16	13.62	13.46	40.00	-26.54	peak	100	352
3		101.7691	-0.93	13.19	12.26	43.50	-31.24	peak	100	352
4		125.0066	7.89	10.68	18.57	43.50	-24.93	peak	200	119
5		249.9942	3.61	14.26	17.87	46.00	-28.13	peak	200	58
6	*	687.5122	2.31	22.82	25.13	46.00	-20.87	peak	200	242

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR32C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1309.2309	1.09	38.60	39.69	74.00	34.31	PASS	Horizo	PK
2	1784.8785	3.23	37.56	40.79	74.00	33.21	PASS	Horizo	PK
3	3257.0171	-20.04	54.86	34.82	74.00	39.18	PASS	Horizo	PK
4	4803.1202	-16.23	57.37	41.14	74.00	32.86	PASS	Horizo	PK
5	7207.2805	-11.83	63.28	51.45	74.00	22.55	PASS	Horizo	PK
6	12008.600	-5.30	52.52	47.22	74.00	26.78	PASS	Horizo	PK
7	1595.4595	2.25	36.84	39.09	74.00	34.91	PASS	Vertical	PK
8	2056.9057	4.74	36.82	41.56	74.00	32.44	PASS	Vertical	PK
9	3320.0213	-19.88	57.90	38.02	74.00	35.98	PASS	Vertical	PK
10	4804.1203	-16.23	57.45	41.22	74.00	32.78	PASS	Vertical	PK
11	7205.2804	-11.83	59.88	48.05	74.00	25.95	PASS	Vertical	PK
12	12009.600	-5.30	53.10	47.80	74.00	26.20	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440 MHz	
Test model No.:			HJSR32C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1267.0267	0.98	38.70	39.68	74.00	34.32	PASS	Horizo	PK
2	1961.6962	4.35	36.79	41.14	74.00	32.86	PASS	Horizo	PK
3	3454.0303	-20.10	52.78	32.68	74.00	41.32	PASS	Horizo	PK
4	7321.2881	-11.65	61.48	49.83	74.00	24.17	PASS	Horizo	PK
5	9759.4506	-7.52	50.98	43.46	74.00	30.54	PASS	Horizo	PK
6	15362.824	0.09	45.31	45.40	74.00	28.60	PASS	Horizo	PK
7	1548.0548	1.87	37.37	39.24	74.00	34.76	PASS	Vertical	PK
8	2098.9099	4.88	37.25	42.13	74.00	31.87	PASS	Vertical	PK
9	3329.0219	-19.92	57.09	37.17	74.00	36.83	PASS	Vertical	PK
10	4879.1253	-16.21	53.09	36.88	74.00	37.12	PASS	Vertical	PK
11	7321.2881	-11.65	61.89	50.24	74.00	23.76	PASS	Vertical	PK
12	12201.613	-5.13	49.19	44.06	74.00	29.94	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480 MHz	
Test model No.:			HJSR32C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1486.0486	1.46	38.07	39.53	74.00	34.47	PASS	Horizo	PK
2	2001.9002	4.55	37.24	41.79	74.00	32.21	PASS	Horizo	PK
3	3729.0486	-19.73	52.49	32.76	74.00	41.24	PASS	Horizo	PK
4	4959.1306	-15.98	55.30	39.32	74.00	34.68	PASS	Horizo	PK
5	7439.296	-11.34	61.91	50.57	74.00	23.43	PASS	Horizo	PK
6	14357.757	0.52	44.38	44.90	74.00	29.10	PASS	Horizo	PK
7	1620.8621	2.43	36.92	39.35	74.00	34.65	PASS	Vertical	PK
8	2126.9127	4.59	36.60	41.19	74.00	32.31	PASS	Vertical	PK
9	3996.0664	-18.90	55.32	36.42	74.00	37.58	PASS	Vertical	PK
10	4959.1306	-15.98	51.97	35.99	74.00	38.01	PASS	Vertical	PK
11	7440.296	-11.34	62.22	50.88	74.00	23.12	PASS	Vertical	PK
12	12401.626	-4.69	51.69	47.00	74.00	27.00	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR32C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1721.8722	3.01	36.61	39.62	74.00	34.38	PASS	Horizo	PK
2	2085.1085	4.83	38.14	42.97	74.00	31.03	PASS	Horizo	PK
3	3820.0547	-19.21	53.52	34.31	74.00	39.69	PASS	Horizo	PK
4	4803.1202	-16.23	58.08	41.85	74.00	32.15	PASS	Horizo	PK
5	7204.2803	-11.84	62.16	50.32	74.00	23.68	PASS	Horizo	PK
6	12007.600	-5.30	49.40	44.10	74.00	29.90	PASS	Horizo	PK
7	1693.4693	2.90	37.15	40.05	74.00	33.95	PASS	Vertical	PK
8	2105.5106	4.82	37.40	42.22	74.00	31.78	PASS	Vertical	PK
9	4805.1203	-16.23	54.31	38.08	74.00	35.92	PASS	Vertical	PK
10	7204.2803	-11.84	61.00	49.16	74.00	24.84	PASS	Vertical	PK
11	11343.556	-6.41	47.99	41.58	74.00	32.42	PASS	Vertical	PK
12	16326.888	1.14	46.51	47.65	74.00	26.35	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR32C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1476.2476	1.45	37.93	39.38	74.00	34.62	PASS	Horizo	PK
2	2030.9031	4.65	36.40	41.05	74.00	32.95	PASS	Horizo	PK
3	3497.0331	-20.02	54.52	34.50	74.00	39.50	PASS	Horizo	PK
4	4879.1253	-16.21	55.09	38.88	74.00	35.12	PASS	Horizo	PK
5	7321.2881	-11.65	61.06	49.41	74.00	24.59	PASS	Horizo	PK
6	12197.613	-5.14	48.70	43.56	74.00	30.44	PASS	Horizo	PK
7	1578.4578	2.12	37.75	39.87	74.00	34.13	PASS	Vertical	PK
8	1983.4984	4.46	36.97	41.43	74.00	32.57	PASS	Vertical	PK
9	3323.0215	-19.89	55.98	36.09	74.00	37.91	PASS	Vertical	PK
10	7318.2879	-11.66	61.19	49.53	74.00	24.47	PASS	Vertical	PK
11	13674.711	-1.74	46.75	45.01	74.00	28.99	PASS	Vertical	PK
12	17227.948	3.09	43.35	46.44	74.00	27.56	PASS	Vertical	PK

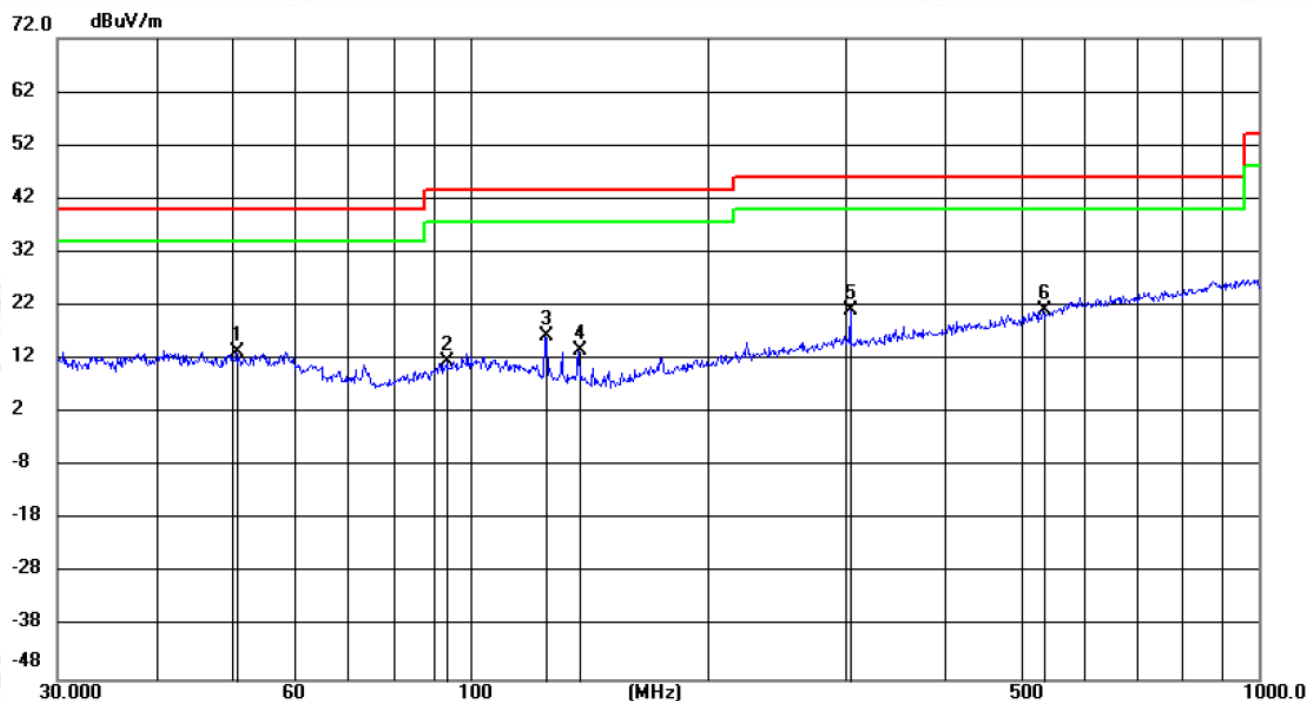
Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR32C Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1489.2489	1.46	37.83	39.29	74.00	34.71	PASS	Horizo	PK
2	1948.2948	4.28	37.46	41.74	74.00	32.26	PASS	Horizo	PK
3	3315.021	-19.86	53.93	34.07	74.00	39.93	PASS	Horizo	PK
4	4959.1306	-15.98	55.69	39.71	74.00	34.29	PASS	Horizo	PK
5	7438.2959	-11.35	61.14	49.79	74.00	24.21	PASS	Horizo	PK
6	9918.4612	-7.10	51.44	44.34	74.00	29.66	PASS	Horizo	PK
7	1459.646	1.44	37.28	38.72	74.00	35.28	PASS	Vertical	PK
8	2103.5104	4.84	36.17	41.01	74.00	32.99	PASS	Vertical	PK
9	3328.0219	-19.91	57.88	37.97	74.00	36.03	PASS	Vertical	PK
10	5973.1982	-13.13	61.53	48.40	74.00	25.60	PASS	Vertical	PK
11	7441.2961	-11.34	62.02	50.68	74.00	23.32	PASS	Vertical	PK
12	13954.730	-1.66	46.70	45.04	74.00	28.96	PASS	Vertical	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 highest channel of GFSK 2M for HJSR79 Ble was recorded in the report.

Horizontal:

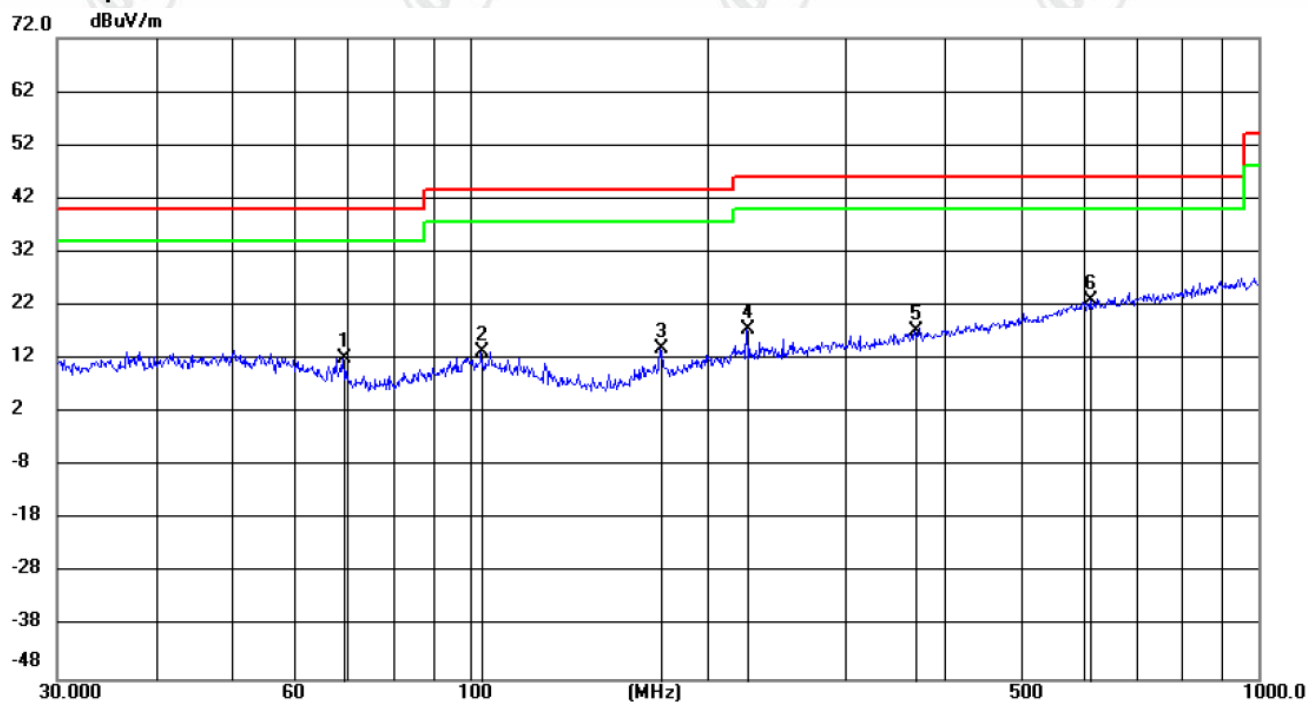
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		50.7547	-0.29	13.50	13.21	40.00	-26.79	peak	199	19
2		93.5713	-0.30	11.92	11.62	43.50	-31.88	peak	100	347
3		124.9846	5.56	10.68	16.24	43.50	-27.26	peak	100	184
4		137.5166	4.46	9.25	13.71	43.50	-29.79	peak	100	296
5		304.2363	4.89	16.13	21.02	46.00	-24.98	peak	100	316
6	*	534.4876	0.49	20.55	21.04	46.00	-24.96	peak	199	352

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		69.2232	2.49	9.81	12.30	40.00	-27.70	peak	100	17
2		103.4784	0.18	13.12	13.30	43.50	-30.20	peak	100	98
3		175.0061	2.79	11.23	14.02	43.50	-29.48	peak	100	78
4		224.9922	4.16	13.37	17.53	46.00	-28.47	peak	100	68
5		367.1448	-0.10	17.25	17.15	46.00	-28.85	peak	100	27
6	*	613.2458	0.74	22.34	23.08	46.00	-22.92	peak	100	47

Radiated Spurious Emission above 1GHz:

During the test, the Radiated Spurious Emission from above 1GHz was performed in all modes, only the worst case BLE 1M was recorded in the report.

Mode:			BLE GFSK Transmitting_1M			Channel:		2402 MHz	
Test model No.:			HJSR79 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1422.2422	1.41	37.92	39.33	74.00	34.67	PASS	Horizontal	PK
2	1988.0988	4.49	36.30	40.79	74.00	33.21	PASS	Horizontal	PK
3	3424.0283	-20.16	54.21	34.05	74.00	39.95	PASS	Horizontal	PK
4	4803.1202	-16.23	56.87	40.64	74.00	33.36	PASS	Horizontal	PK
5	7207.2805	-11.83	62.78	50.95	74.00	23.05	PASS	Horizontal	PK
6	12008.6006	-5.30	52.02	46.72	74.00	27.28	PASS	Horizontal	PK
7	1344.2344	1.20	37.22	38.42	74.00	35.58	PASS	Vertical	PK
8	1845.6846	3.62	36.23	39.85	74.00	34.15	PASS	Vertical	PK
9	3320.0213	-19.88	57.40	37.52	74.00	36.48	PASS	Vertical	PK
10	4804.1203	-16.23	56.95	40.72	74.00	33.28	PASS	Vertical	PK
11	7205.2804	-11.83	59.38	47.55	74.00	26.45	PASS	Vertical	PK
12	12009.6006	-5.30	52.60	47.30	74.00	26.70	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2440MHz	
Test model No.:			HJSR79 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1291.2291	1.04	37.09	38.13	74.00	35.87	PASS	Horizontal	PK
2	1839.4839	3.58	36.63	40.21	74.00	33.79	PASS	Horizontal	PK
3	3266.0177	-19.98	52.85	32.87	74.00	41.13	PASS	Horizontal	PK
4	4879.1253	-16.21	53.86	37.65	74.00	36.35	PASS	Horizontal	PK
5	7321.2881	-11.65	60.98	49.33	74.00	24.67	PASS	Horizontal	PK
6	9759.4506	-7.52	50.48	42.96	74.00	31.04	PASS	Horizontal	PK
7	1409.0409	1.40	37.04	38.44	74.00	35.56	PASS	Vertical	PK
8	1832.8833	3.53	37.25	40.78	74.00	33.22	PASS	Vertical	PK
9	3329.0219	-19.92	56.59	36.67	74.00	37.33	PASS	Vertical	PK
10	4879.1253	-16.21	52.59	36.38	74.00	37.62	PASS	Vertical	PK
11	7321.2881	-11.65	61.39	49.74	74.00	24.26	PASS	Vertical	PK
12	9759.4506	-7.52	49.41	41.89	74.00	32.11	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_1M			Channel:		2480MHz	
Test model No.:			HJSR79 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1237.6238	0.90	38.22	39.12	74.00	34.88	PASS	Horizontal	PK
2	1745.2745	3.10	37.19	40.29	74.00	33.71	PASS	Horizontal	PK
3	3413.0275	-20.17	52.91	32.74	74.00	41.26	PASS	Horizontal	PK
4	4959.1306	-15.98	54.80	38.82	74.00	35.18	PASS	Horizontal	PK
5	7439.296	-11.34	61.41	50.07	74.00	23.93	PASS	Horizontal	PK
6	11141.5428	-6.30	46.25	39.95	74.00	34.05	PASS	Horizontal	PK
7	1214.6215	0.83	38.48	39.31	74.00	34.69	PASS	Vertical	PK
8	1784.4784	3.23	36.87	40.10	74.00	33.90	PASS	Vertical	PK
9	3323.0215	-19.89	55.52	35.63	74.00	38.37	PASS	Vertical	PK
10	3996.0664	-18.90	54.82	35.92	74.00	38.08	PASS	Vertical	PK
11	7440.296	-11.34	61.72	50.38	74.00	23.62	PASS	Vertical	PK
12	12401.6268	-4.69	51.19	46.50	74.00	27.50	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2402 MHz	
Test model No.:			HJSR79 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1332.4332	1.16	38.77	39.93	74.00	34.07	PASS	Horizontal	PK
2	1907.0907	4.07	37.30	41.37	74.00	32.63	PASS	Horizontal	PK
3	3453.0302	-20.11	54.24	34.13	74.00	39.87	PASS	Horizontal	PK
4	4803.1202	-16.23	57.58	41.35	74.00	32.65	PASS	Horizontal	PK
5	7204.2803	-11.84	61.66	49.82	74.00	24.18	PASS	Horizontal	PK
6	11770.5847	-6.15	48.14	41.99	74.00	32.01	PASS	Horizontal	PK
7	1322.4322	1.13	37.07	38.20	74.00	35.80	PASS	Vertical	PK
8	2029.503	4.65	36.52	41.17	74.00	32.83	PASS	Vertical	PK
9	3393.0262	-20.17	55.43	35.26	74.00	38.74	PASS	Vertical	PK
10	4805.1203	-16.23	53.81	37.58	74.00	36.42	PASS	Vertical	PK
11	7204.2803	-11.84	60.50	48.66	74.00	25.34	PASS	Vertical	PK
12	10993.5329	-6.17	48.40	42.23	74.00	31.77	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2440 MHz	
Test model No.:			HJSR79 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1282.2282	1.01	37.13	38.14	74.00	35.86	PASS	Horizontal	PK
2	1753.4753	3.12	36.49	39.61	74.00	34.39	PASS	Horizontal	PK
3	3399.0266	-20.20	53.99	33.79	74.00	40.21	PASS	Horizontal	PK
4	4879.1253	-16.21	54.59	38.38	74.00	35.62	PASS	Horizontal	PK
5	7321.2881	-11.65	60.06	48.41	74.00	25.59	PASS	Horizontal	PK
6	11218.5479	-6.47	48.85	42.38	74.00	31.62	PASS	Horizontal	PK
7	1161.8162	0.82	41.13	41.95	74.00	32.05	PASS	Vertical	PK
8	1759.676	3.14	36.85	39.99	74.00	34.01	PASS	Vertical	PK
9	3539.0359	-20.16	54.25	34.09	74.00	39.91	PASS	Vertical	PK
10	4879.1253	-16.21	52.64	36.43	74.00	37.57	PASS	Vertical	PK
11	7318.2879	-11.66	60.69	49.03	74.00	24.97	PASS	Vertical	PK
12	9202.4135	-7.88	48.59	40.71	74.00	33.29	PASS	Vertical	PK

Mode:			BLE GFSK Transmitting_2M			Channel:		2480 MHz	
Test model No.:			HJSR79 Ble						
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1229.0229	0.88	37.74	38.62	74.00	35.38	PASS	Horizontal	PK
2	1657.8658	2.66	37.24	39.90	74.00	34.10	PASS	Horizontal	PK
3	3429.0286	-20.15	53.01	32.86	74.00	41.14	PASS	Horizontal	PK
4	4959.1306	-15.98	55.19	39.21	74.00	34.79	PASS	Horizontal	PK
5	6134.2089	-13.17	49.06	35.89	74.00	38.11	PASS	Horizontal	PK
6	7438.2959	-11.35	60.64	49.29	74.00	24.71	PASS	Horizontal	PK
7	1347.2347	1.22	37.32	38.54	74.00	35.46	PASS	Vertical	PK
8	1768.4768	3.17	37.23	40.40	74.00	33.60	PASS	Vertical	PK
9	3328.0219	-19.91	57.38	37.47	74.00	36.53	PASS	Vertical	PK
10	5973.1982	-13.13	61.03	47.90	74.00	26.10	PASS	Vertical	PK
11	7441.2961	-11.34	61.52	50.18	74.00	23.82	PASS	Vertical	PK
12	9918.4612	-7.10	49.68	42.58	74.00	31.42	PASS	Vertical	PK

Remark:

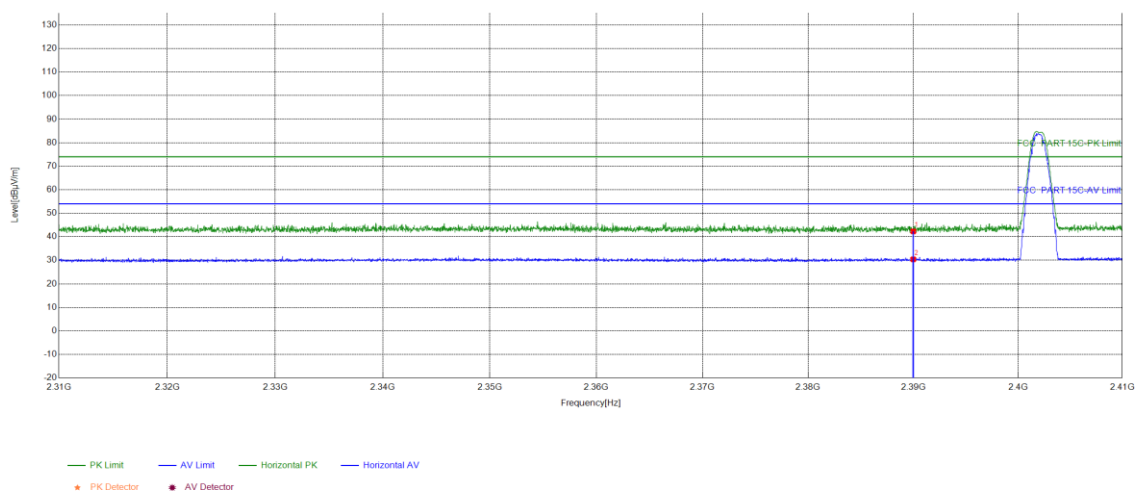
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- Scan from 9kHz to 25GHz, the disturbance above 10GHz and 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.

Restricted bands:

Test plot as follows:

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81 Ble		

Test Graph

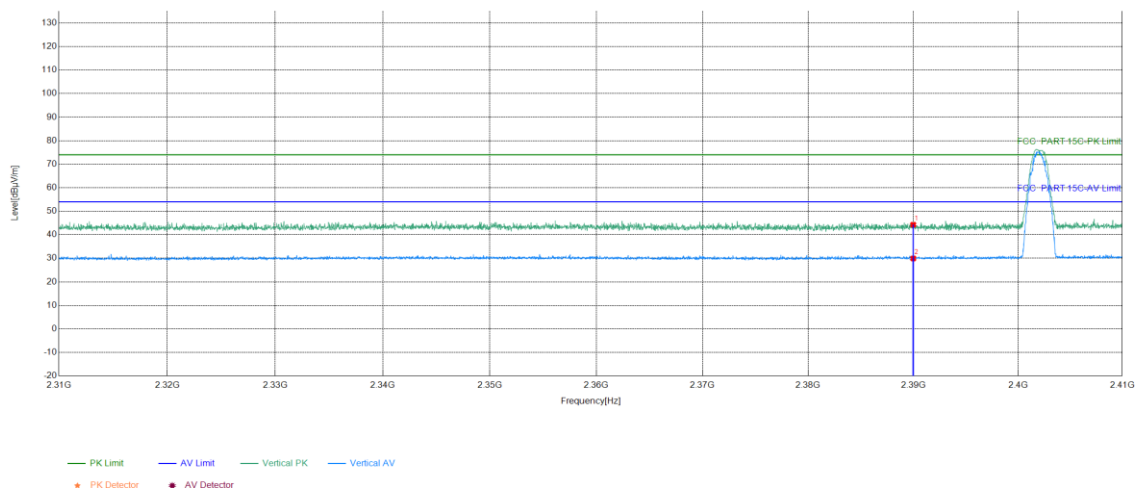


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	36.52	42.29	74.00	31.71	PASS	Horizontal	PK
2	2390	5.77	24.64	30.41	54.00	23.59	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81 Ble		

Test Graph

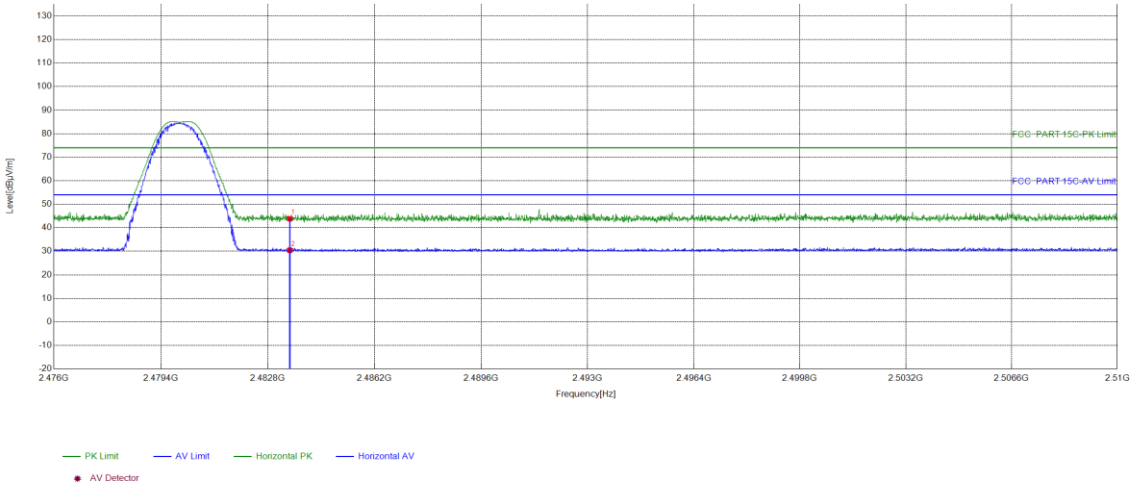


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	38.49	44.26	74.00	29.74	PASS	Vertical	PK
2	2390	5.77	24.15	29.92	54.00	24.08	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81 Ble		

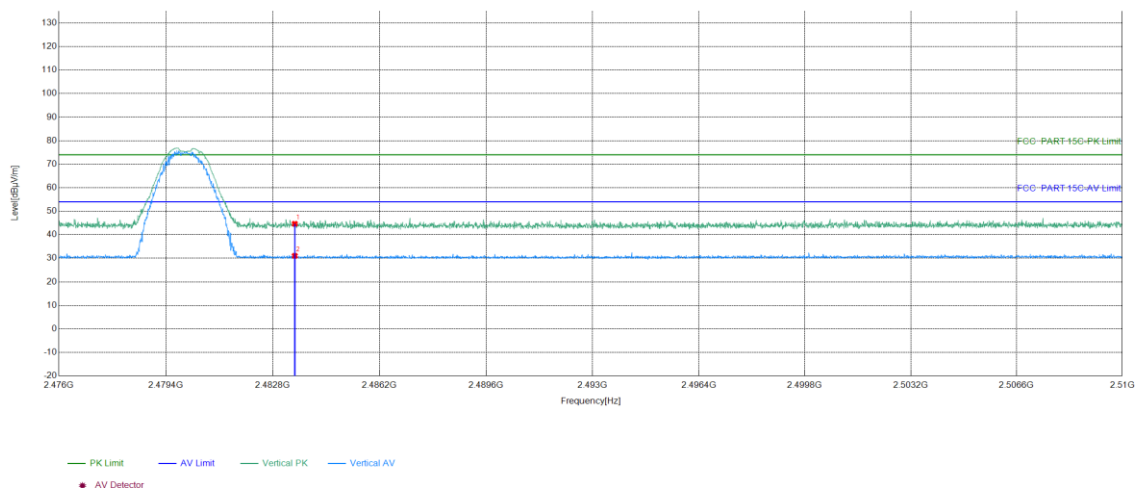
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.30	43.87	74.00	30.13	PASS	Horizontal	PK
2	2483.5	6.57	23.88	30.45	54.00	23.55	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81 Ble		

Test Graph

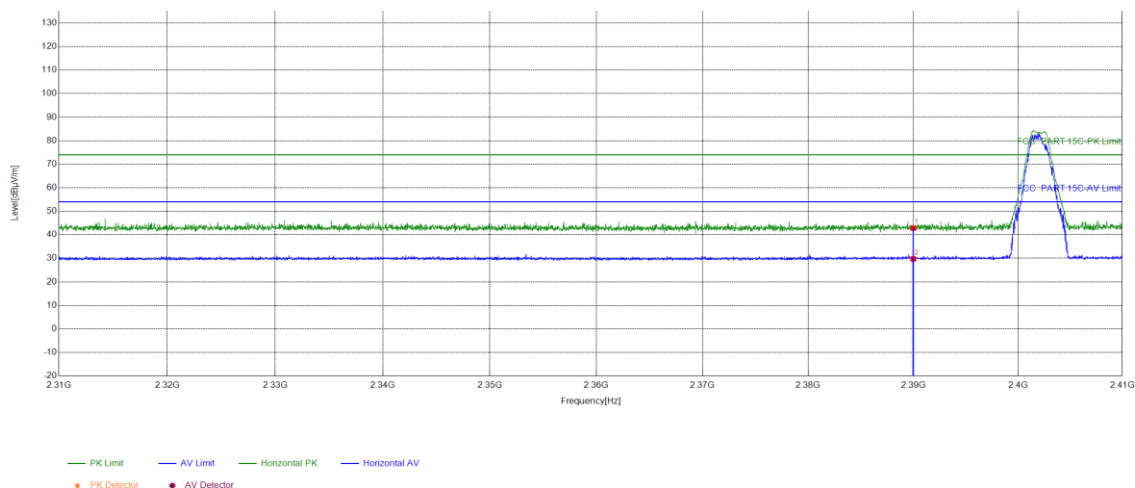


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	38.09	44.66	74.00	29.34	PASS	Vertical	PK
2	2483.5	6.57	24.47	31.04	54.00	22.96	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2402MHz
Test model No.:	HJSR81 Ble		

Test Graph

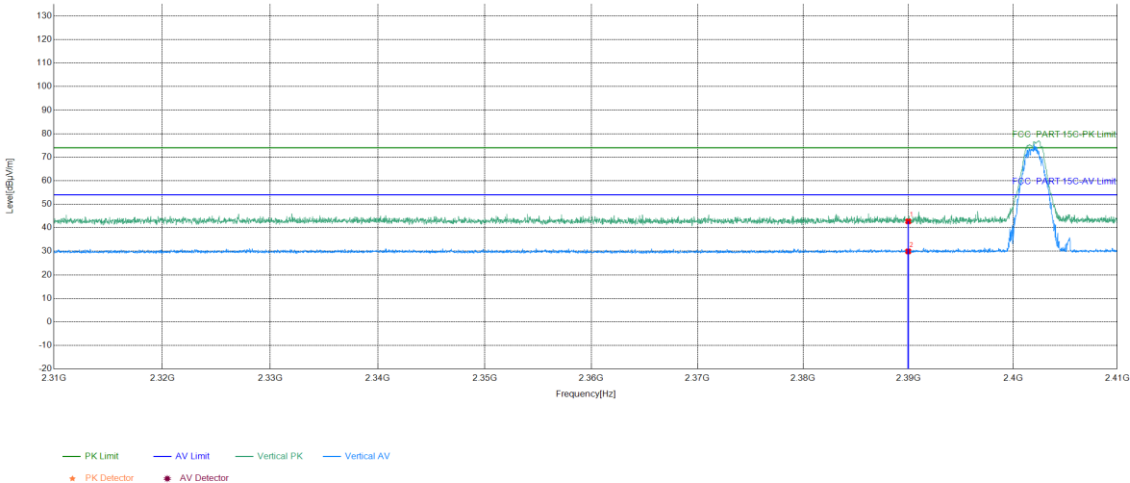


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.04	42.81	74.00	31.19	PASS	Horizontal	PK
2	2390	5.77	23.94	29.71	54.00	24.29	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2402MHz
Test model No.:	HJSR81 Ble		

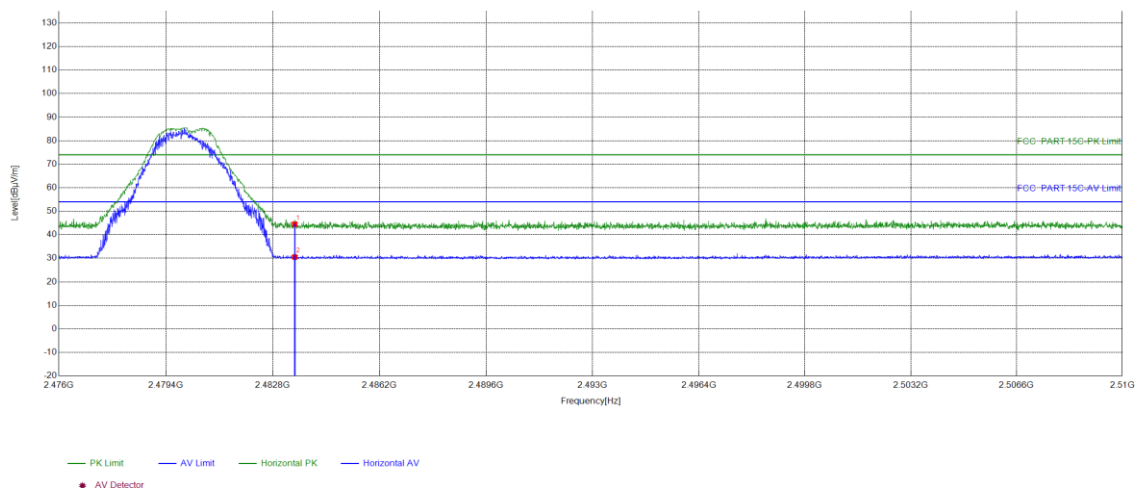
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	36.94	42.71	74.00	31.29	PASS	Vertical	PK
2	2390	5.77	24.18	29.95	54.00	24.05	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2480MHz
Test model No.:	HJSR81 Ble		

Test Graph

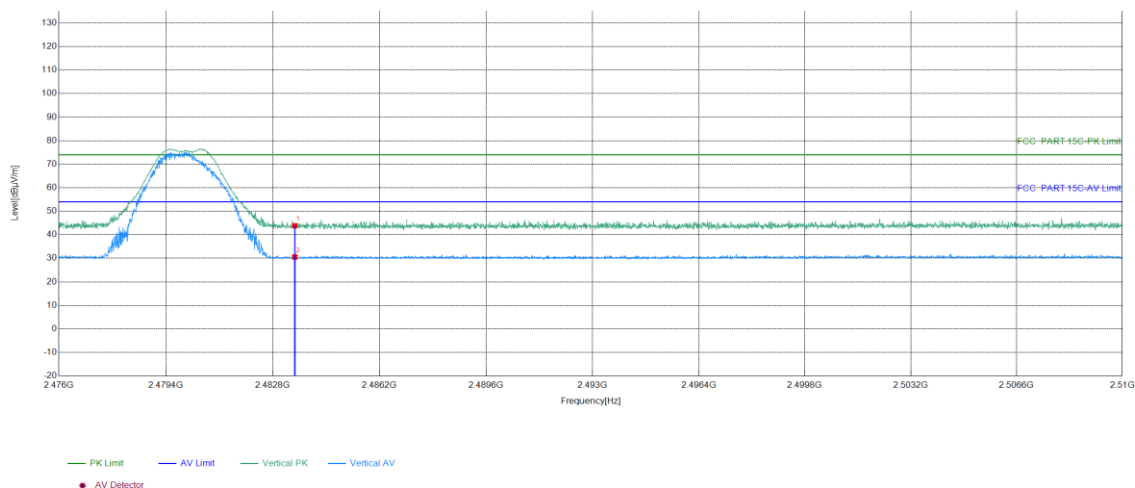


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.92	44.49	74.00	29.51	PASS	Horizontal	PK
2	2483.5	6.57	23.96	30.53	54.00	23.47	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2480MHz
Test model No.:	HJSR81 Ble		

Test Graph

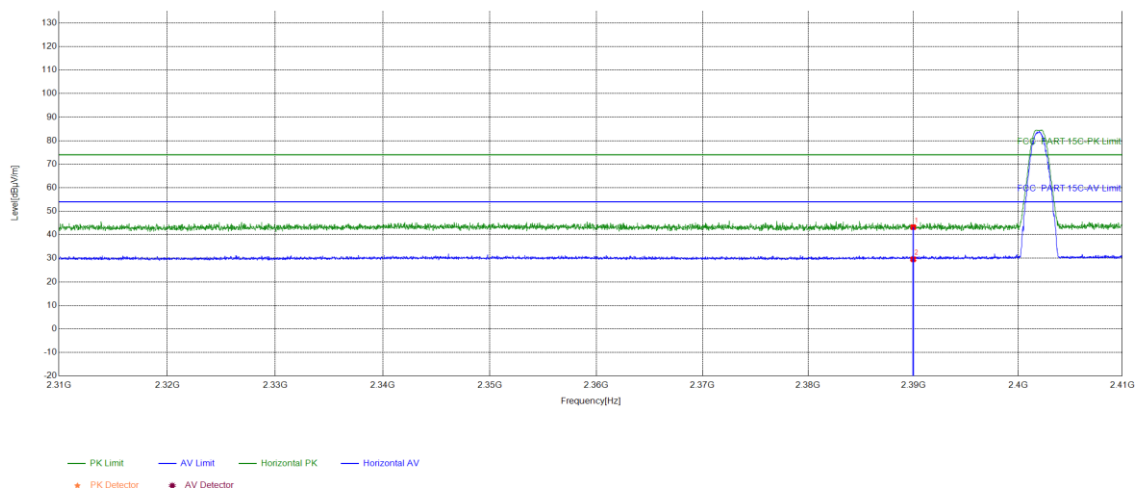


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.27	43.84	74.00	30.16	PASS	Vertical	PK
2	2483.5	6.57	23.98	30.55	54.00	23.45	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81B Ble		

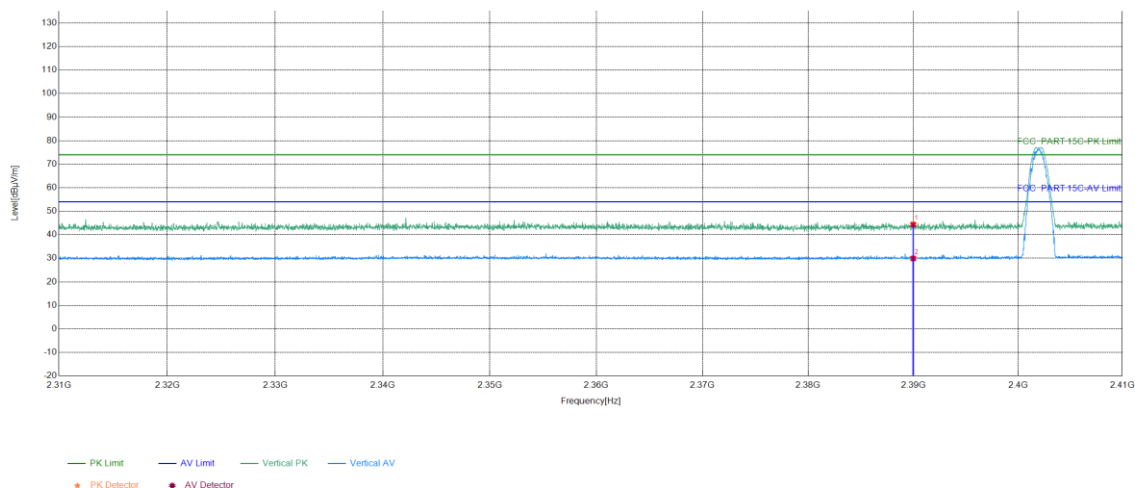
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.48	43.25	74.00	30.75	PASS	Horizontal	PK
2	2390	5.77	23.82	29.59	54.00	24.41	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81B Ble		

Test Graph

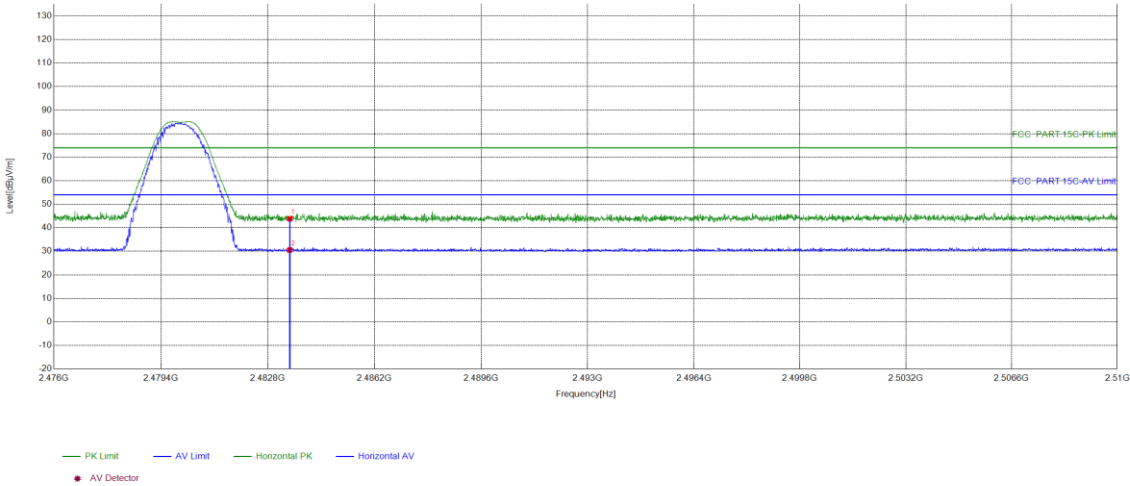


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	38.57	44.34	74.00	29.66	PASS	Vertical	PK
2	2390	5.77	24.16	29.93	54.00	24.07	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81B Ble		

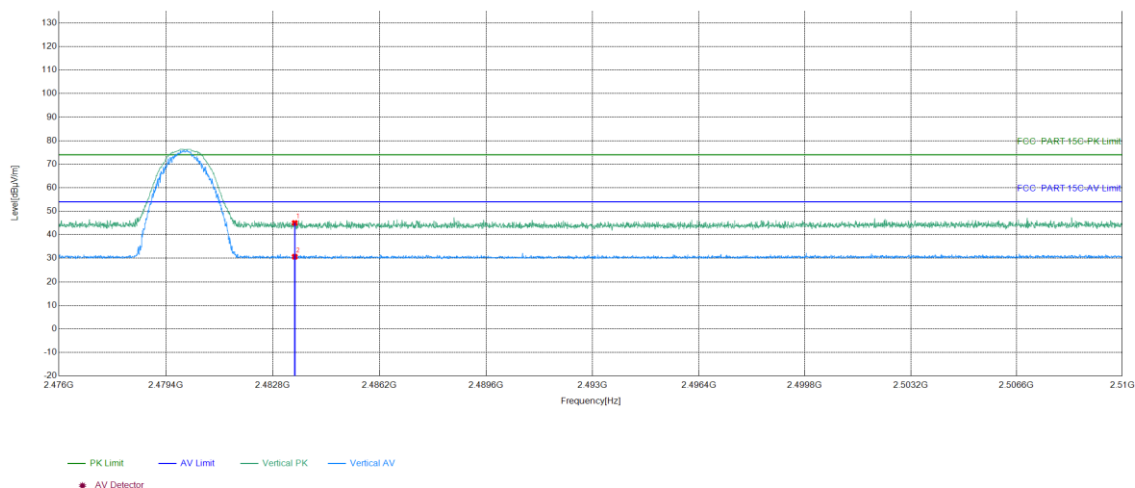
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.28	43.85	74.00	30.15	PASS	Horizontal	PK
2	2483.5	6.57	24.00	30.57	54.00	23.43	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81B Ble		

Test Graph

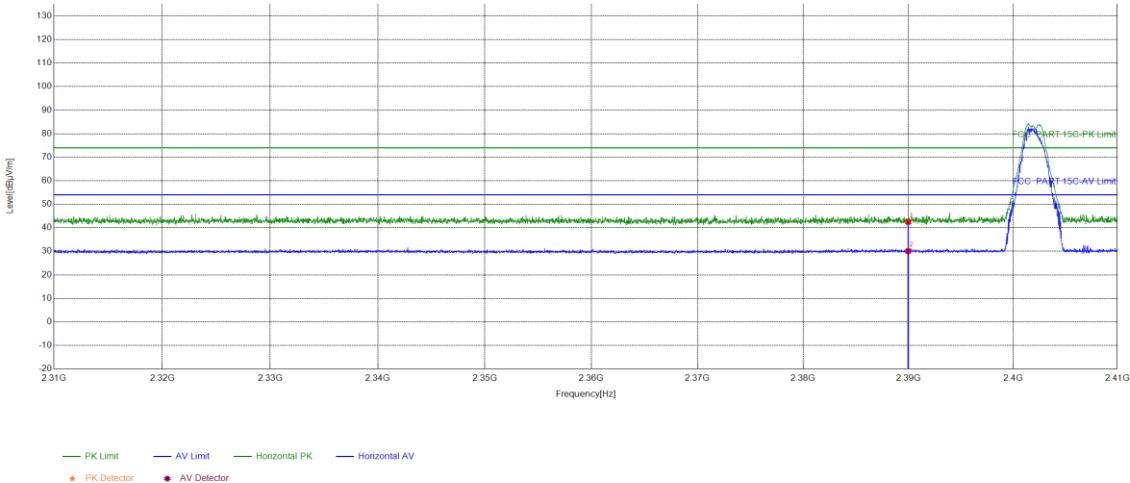


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	38.44	45.01	74.00	28.99	PASS	Vertical	PK
2	2483.5	6.57	24.10	30.67	54.00	23.33	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2402MHz
Test model No.:	HJSR81B Ble		

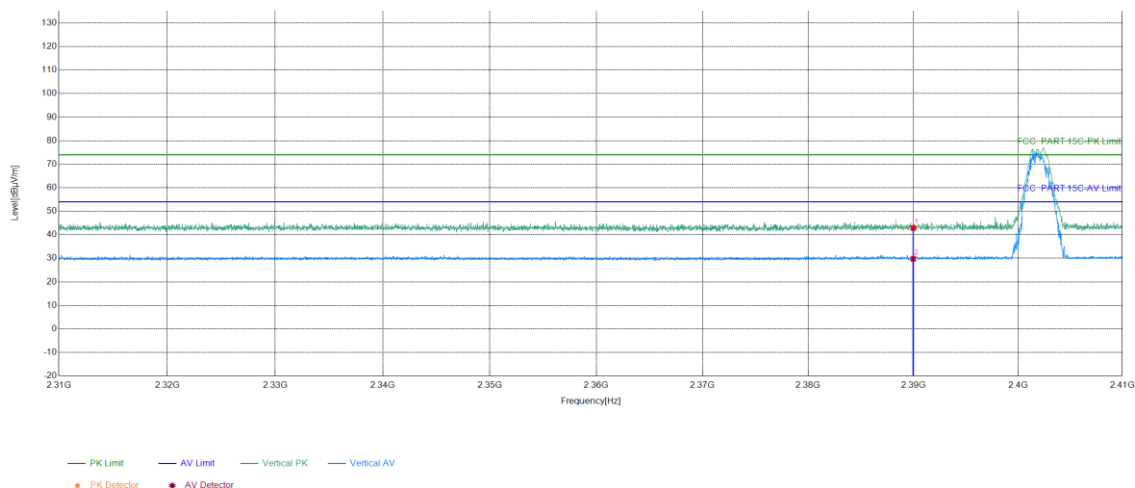
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	36.68	42.45	74.00	31.55	PASS	Horizontal	PK
2	2390	5.77	24.30	30.07	54.00	23.93	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2402MHz
Test model No.:	HJSR81B Ble		

Test Graph

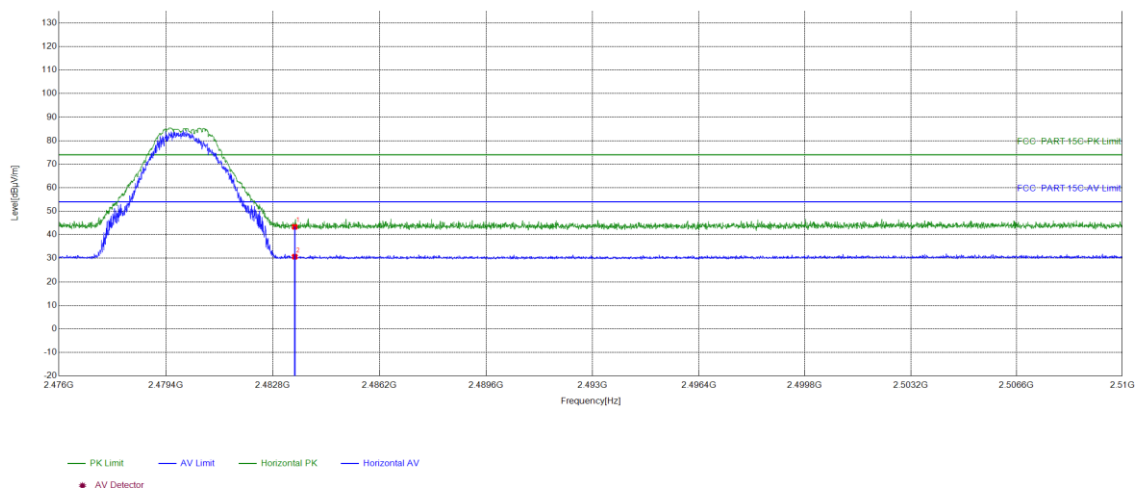


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.09	42.86	74.00	31.14	PASS	Vertical	PK
2	2390	5.77	23.99	29.76	54.00	24.24	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2480MHz
Test model No.:	HJSR81B Ble		

Test Graph

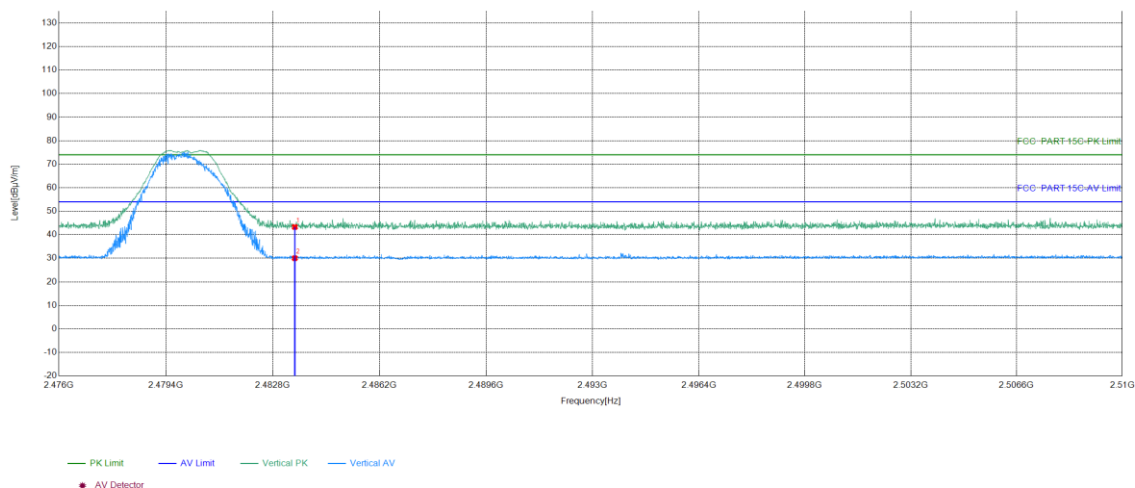


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	36.81	43.38	74.00	30.62	PASS	Horizontal	PK
2	2483.5	6.57	24.10	30.67	54.00	23.33	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2480MHz
Test model No.:	HJSR81B Ble		

Test Graph

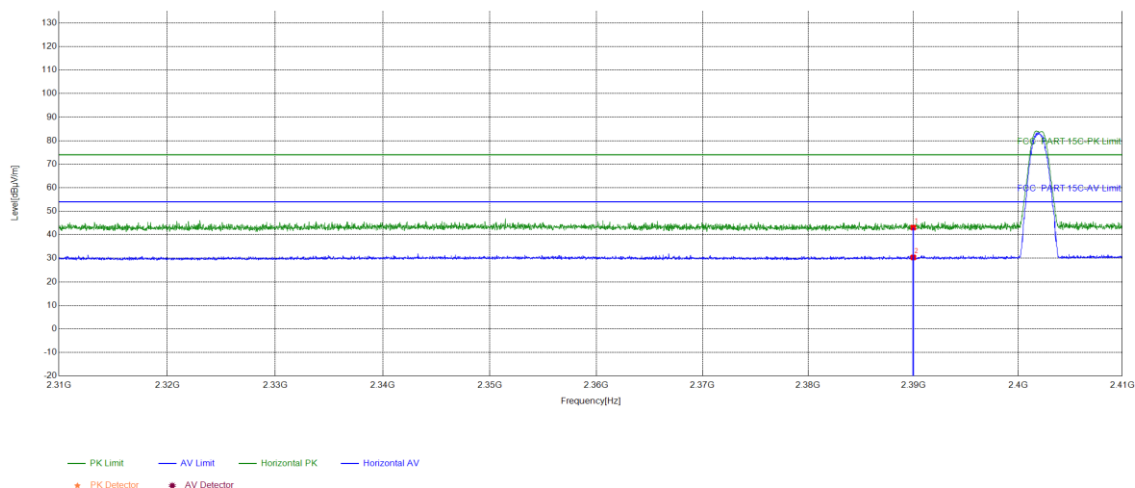


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	36.73	43.30	74.00	30.70	PASS	Vertical	PK
2	2483.5	6.57	23.47	30.04	54.00	23.96	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81C Ble		

Test Graph

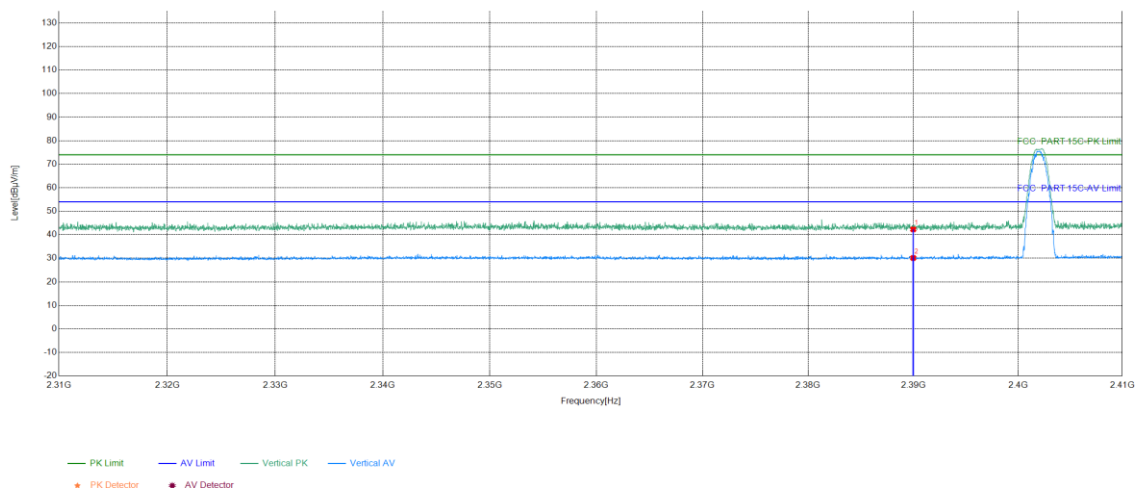


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.30	43.07	74.00	30.93	PASS	Horizontal	PK
2	2390	5.77	24.60	30.37	54.00	23.63	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81C Ble		

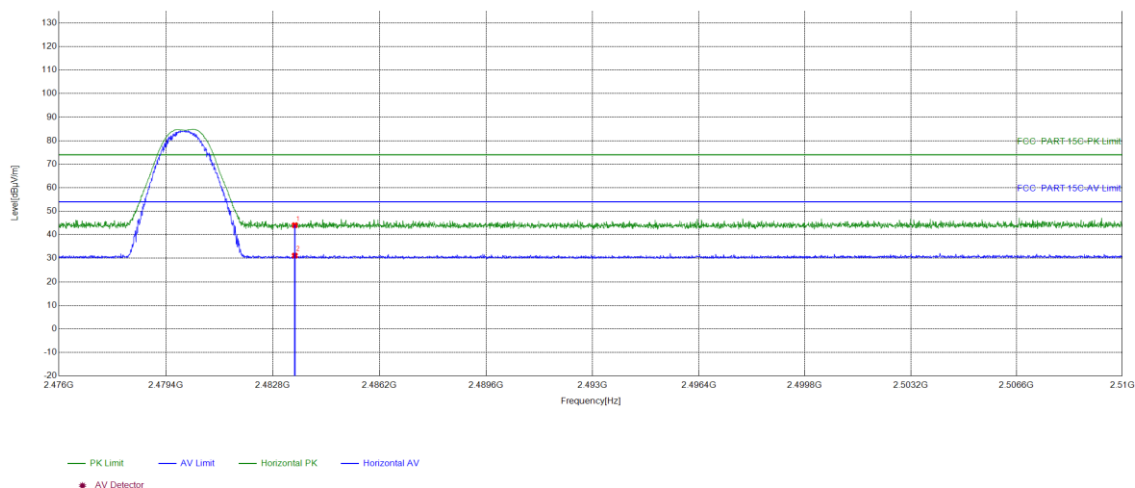
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	36.53	42.30	74.00	31.70	PASS	Vertical	PK
2	2390	5.77	24.35	30.12	54.00	23.88	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81C Ble		

Test Graph

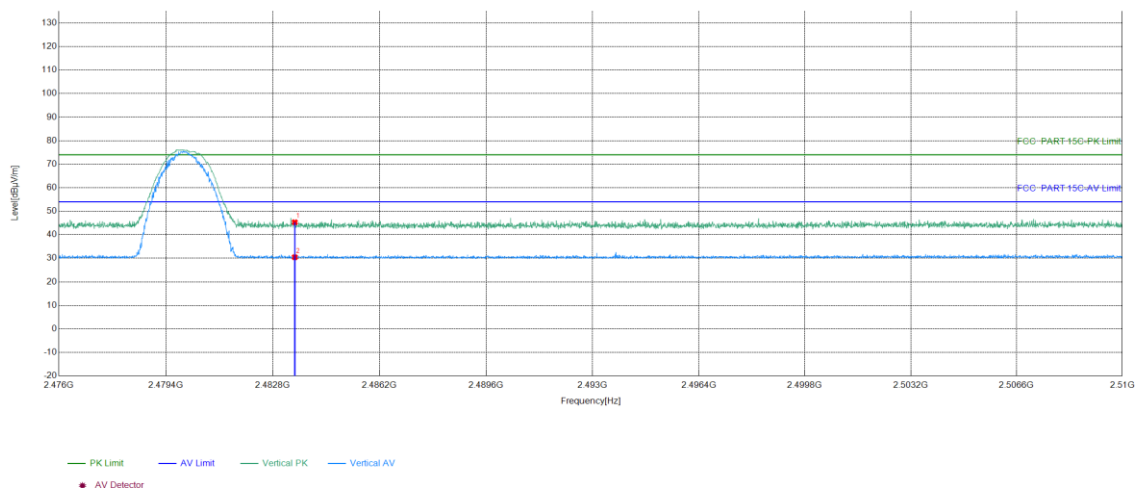


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.47	44.04	74.00	29.96	PASS	Horizontal	PK
2	2483.5	6.57	24.59	31.16	54.00	22.84	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81C Ble		

Test Graph

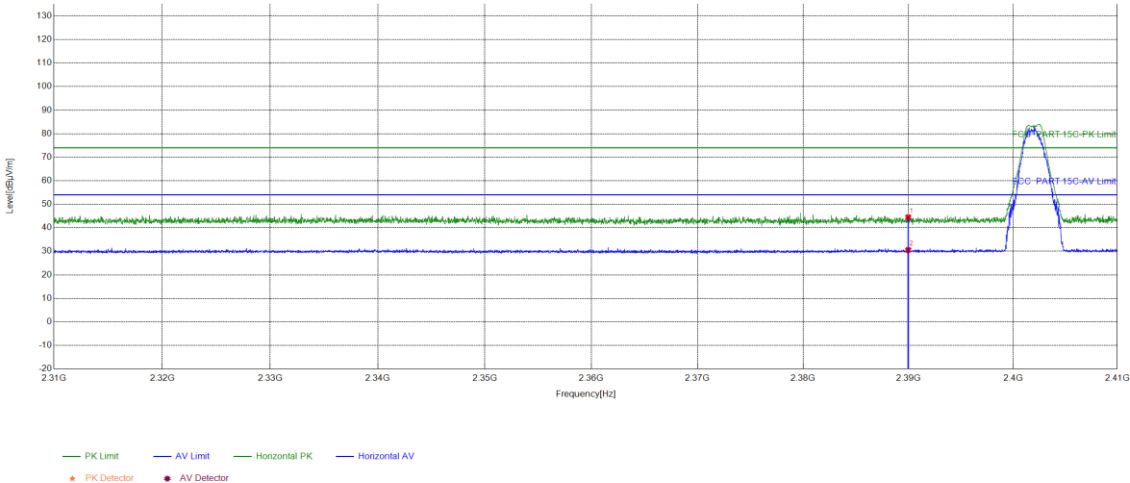


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	38.74	45.31	74.00	28.69	PASS	Vertical	PK
2	2483.5	6.57	23.88	30.45	54.00	23.55	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2402MHz
Test model No.:	HJSR81C Ble		

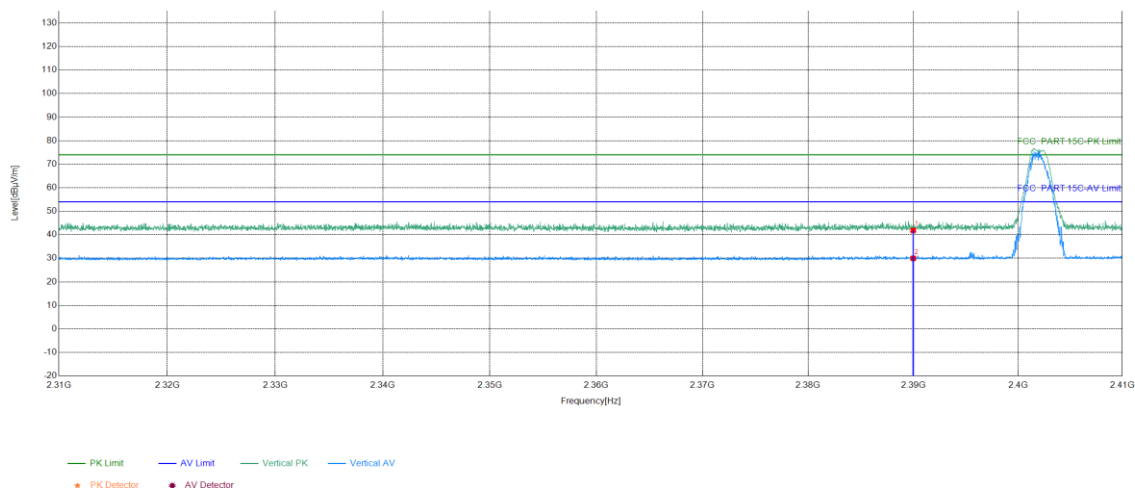
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	38.73	44.50	74.00	29.50	PASS	Horizontal	PK
2	2390	5.77	24.78	30.55	54.00	23.45	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2402MHz
Test model No.:	HJSR81C Ble		

Test Graph

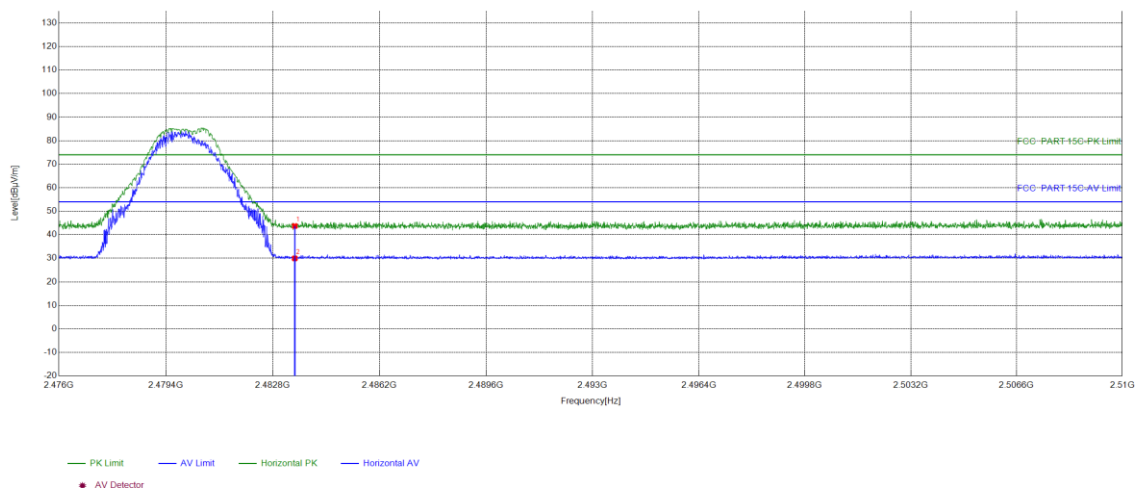


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	36.09	41.86	74.00	32.14	PASS	Vertical	PK
2	2390	5.77	24.20	29.97	54.00	24.03	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2480MHz
Test model No.:	HJSR81C Ble		

Test Graph

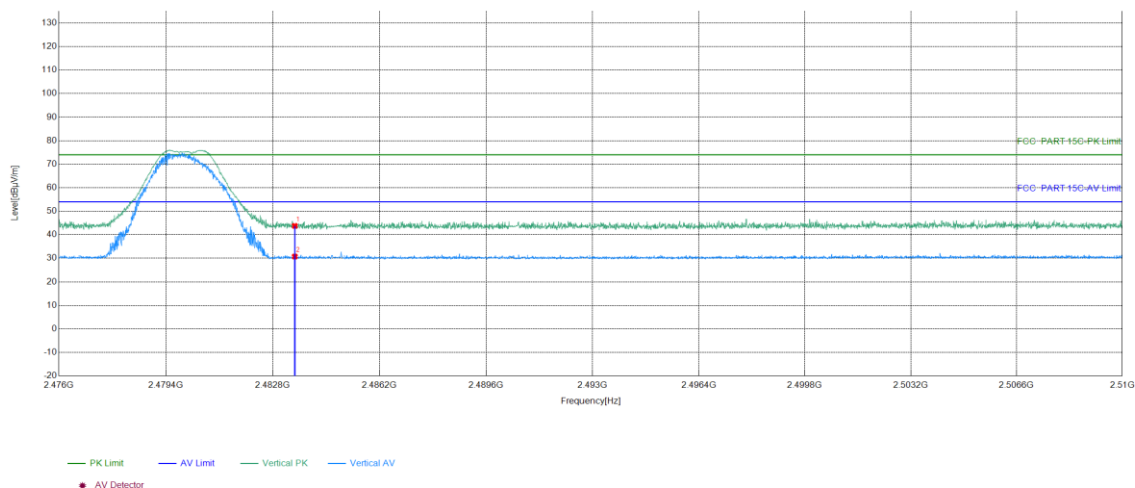


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.16	43.73	74.00	30.27	PASS	Horizontal	PK
2	2483.5	6.57	23.39	29.96	54.00	24.04	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_2M	Channel:	2480MHz
Test model No.:	HJSR81C Ble		

Test Graph

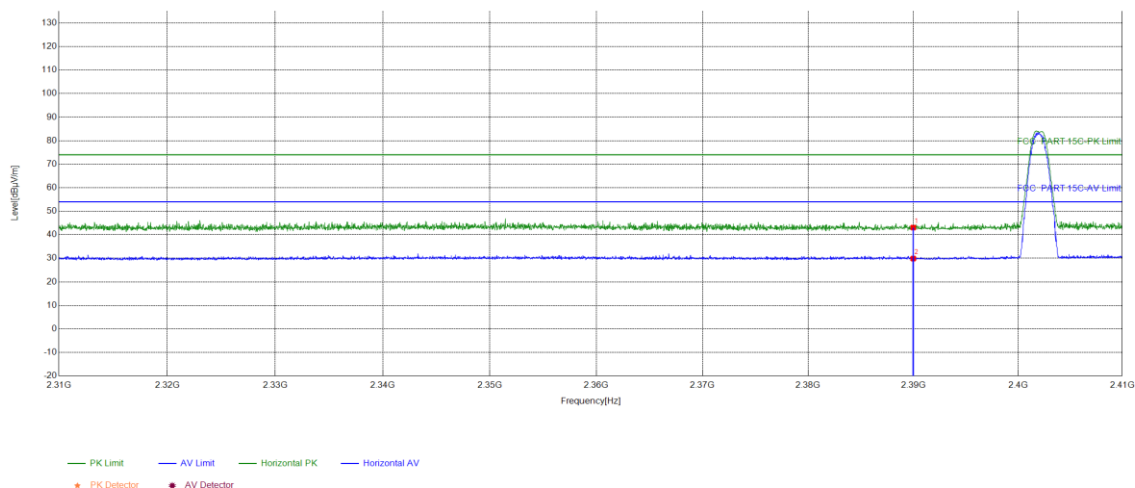


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.20	43.77	74.00	30.23	PASS	Vertical	PK
2	2483.5	6.57	24.18	30.75	54.00	23.25	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81D Ble		

Test Graph

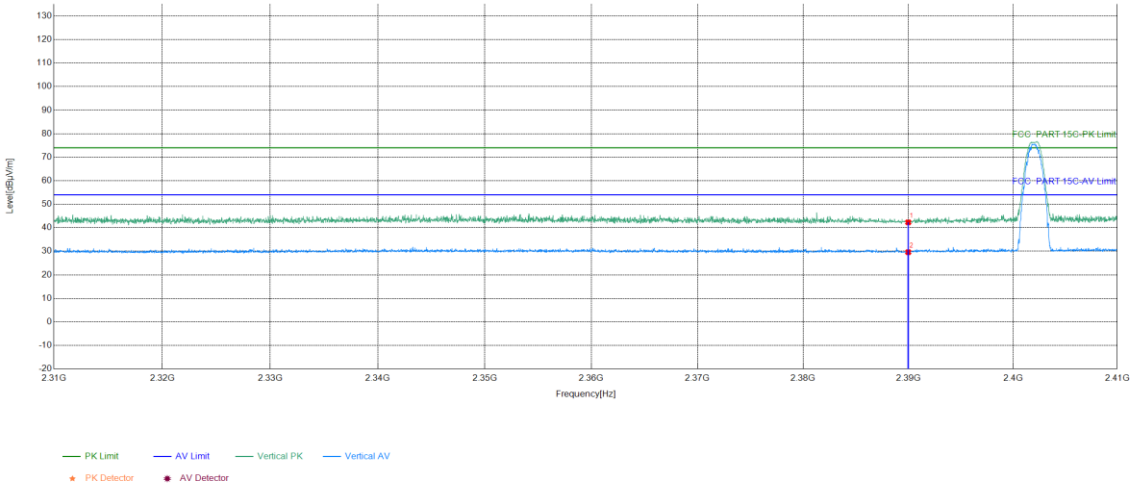


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.30	43.07	74.00	30.93	PASS	Horizontal	PK
2	2390	5.77	24.10	29.87	54.00	24.13	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2402MHz
Test model No.:	HJSR81D Ble		

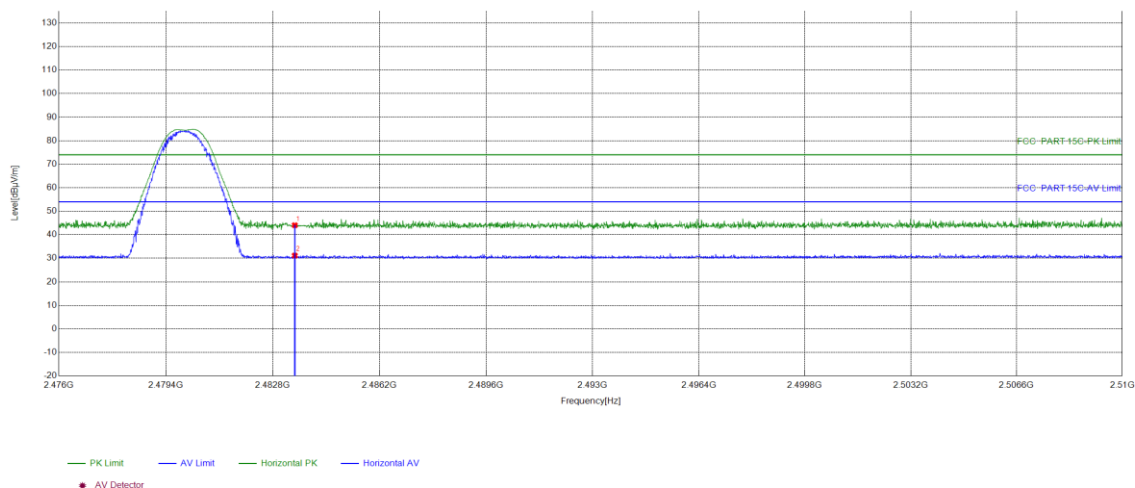
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	36.53	42.30	74.00	31.70	PASS	Vertical	PK
2	2390	5.77	23.85	29.62	54.00	24.38	PASS	Vertical	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81D Ble		

Test Graph

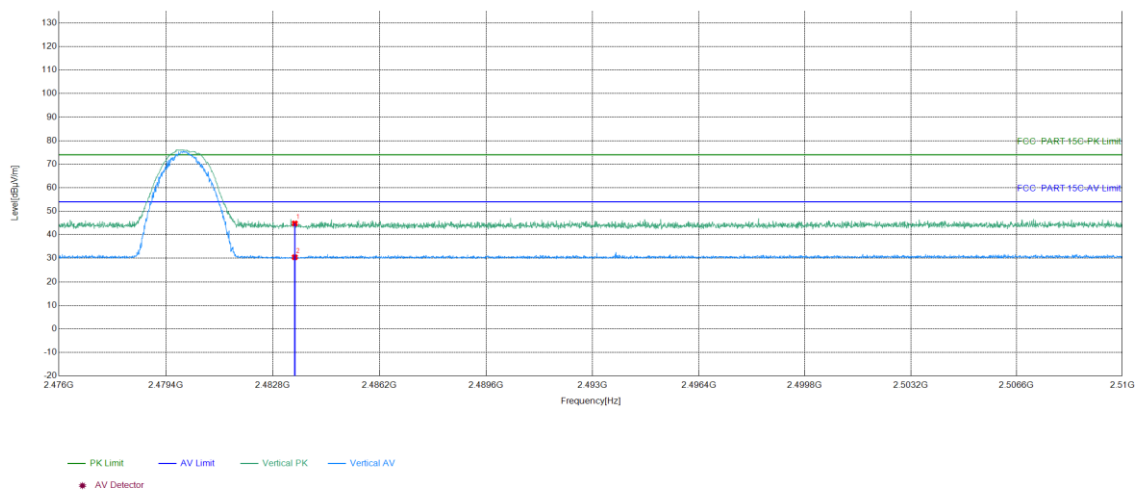


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.47	44.04	74.00	29.96	PASS	Horizontal	PK
2	2483.5	6.57	24.59	31.16	54.00	22.84	PASS	Horizontal	AV

Mode:	BLE GFSK Transmitting_1M	Channel:	2480MHz
Test model No.:	HJSR81D Ble		

Test Graph



Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	38.24	44.81	74.00	29.19	PASS	Vertical	PK
2	2483.5	6.57	23.88	30.45	54.00	23.55	PASS	Vertical	AV