TEST REPORT

Product	:	Single mode Bluetooth(5.0) Module
Trade mark	:	Richmat
Model/Type reference	:	HJ8258
Serial Model	:	/
Report Number	:	EED39N81159101
FCC ID	:	2AJJGHJ8258
Date of Issue	:	November 18, 2021

Test Standards	Result
☒ 47 CFR Part 15 Subpart C	PASS

Prepared for:

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

Prepared by:

Centre Testing International (Suzhou) CO., LTD.
Building 18, Zhihui New Town Ecological industrial Park, No. 1206, Jinyang East Road, Lujia Town, Kunshan, Jiangsu, China
TEL: +86 0512-5015 8288

Compiled by: Jenny. Ku Reviewed by: Lily. Wang

Approved by: Jeff Fang Date: November 18, 2021

Jeff Fang
Authorized Signatory

Check No.: 5507081121

Modification Record

No.	Last Report No.	Modification Description
1	EED39N81159101	First report

TABLE OF CONTENTS

1. Test Summary 4
2. Test Requirement 5
2.1. Test Environment 5
2.2. Test Condition 5
3. General Information 5
3.1. Client Information 5
3.2. General Description of EUT 5
3.3. Product Specification subjective to this standard 5
3.4. Tested System Details 6
3.5. Description of Support Units 6
3.6. Test Location 6
3.7. Test Facility 6
3.8. Deviation from Standards 7
3.9. Abnormalities from Standard Conditions 7
3.10. Other Information Requested by the Customer 7
3.11. Measurement Uncertainty (95% confidence levels, k=2) 7
4. Equipment List 8
5. Radio Technical Requirements Specification 9
5.1. Reference Documents for Testing 9
5.2. Test Results List 9
Appendix A): Restricted bands around fundamental frequency (Radiated) 10
Appendix B): Radiated Spurious Emissions 59

1. 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

2. Test Requirement

2.1. Test Environment

Operating Environment:	
Temperature:	21.3 °C
Humidity:	43.3 % RH
Atmospheric Pressure:	1022mbar

2.2. Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
GFSK	2402MHz ~2480 MHz	Channel 1	Channel 20	Channel 40
		2402MHz	2440MHz	2480MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

3. General Information

3.1. 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

3.2. 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:	Nov. 10, 21
Sample Tested Date:	Nov. 11, 21 to Nov. 12, 21

3.3. Product Specification subjective to this standard

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 Gain①:	5.3dBi
Test Voltage:	AC 120V/60Hz

Note: 1 The antenna gain is provided by the client and we Centre Testing International (Suzhou) CO., LTD. test lab is not responsible for the accuracy of the antenna gain information.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

3.4. Tested System Details

Product	Manufacturer	Model No.
Control Box	Richmat	Model Name.: HJC18 Ble/HJC26C Ble/HJC9G Ble/HJC9 Ble

3.5. Description of Support Units

The EUT has been tested with associated equipment below.

1）support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
NB	ThinkPad	E490	FCC ID and DOC	CTI

3.6. Test Location

All test facilities used to collect the test data are located at Building 18, Zhihui New Town Ecological Industrial Park, No. 1206, Jinyang East Road, Lujia Town, Kunshan, Jiangsu, China.

3.7. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No. 5734.01

Centre Testing International (Suzhou) CO., LTD. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration. Laboratories and any additional program requirements in the identified field of testing.

FCC-Designation No.:CN1290

Centre Testing International Group Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The American association for Centre Testing International Group Co., Ltd. EMC laboratory accreditation Designation No.:CN1290

3.8. Deviation from Standards

None.

3.9. Abnormalities from Standard Conditions

None.

3.10. Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty
1	Occupied Bandwidth	0.56%
2	RF Power conducted	0.59 dB
3	Power Spectral Density, conducted	2.37 dB
4	Unwanted Emission, conducted	2.68 dB
5	All Emission, radiated	4.41 dB(30MHz-1GHz)
		4.99 dB(1GHz-18GHz)
		5.307 dB(18GHz-40GHz)
6	Temperature test	0.54°C
7	Humidity test	1.62%
8	DC and low frequency voltages test	1.14%

4. Equipment List

966 Semi-anechoic Chamber					
Equipment	**Manufacturer**	**Mode No.**	**Serial Number**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
Receiver	R&S	ESU8	100537	2020-12-10	2021-12-09
Spectrum analyzer	R&S	FSV40	101185	2020-12-10	2021-12-09
Preamplifier (30MHz~1GHz)	SONOMA	317	393347	2020-12-04	2021-12-03
Preamplifier (1GHz~18GHz)	R&S	SCU-18D	1987397	2020-12-10	2021-12-09
Preamplifier (18GHz~40GHz)	/	MTLNA18040030235	12009007	2021-10-23	2022-10-22
Loop Antenna (9kHz~30MHz)	TESEQ	HLA6121	54575	2021-02-27	2022-02-26
Antenna (30MHz~1GHz)	SCHWARZBECK	VULB9163	9163-965	2021-10-15	2022-10-14
Antenna (1GHz~18GHz)	R&S	HF907	102524	2020-12-15	2021-12-14
Antenna (18GHz~40GHz)	R&S	BBHA9170	1032	2021-10-23	2022-10-22
Band rejection filter	Xi'an xingbo	XBLBQ-DZA81	200827-1-02	/	/

5. Radio Technical Requirements Specification

5.1. Reference Documents for Testing

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

5.2. Test Results List

Test requirement	Test method	Test item	Verdict	Note
Part15C Section 15.205/15.209	ANSI C63.10 Section 6.10.5	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix A)
Part15C Section 15.205/15.209	ANSI C63.10 Section 6.4,6.5,6.6	Radiated Spurious Emissions	PASS	Appendix B)

Appendix A): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	1/T	Average

Test Procedure:

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. 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 and the rotatable 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel

Above 1GHz test procedure as below:

a. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
b. Test the EUT in the lowest channel , the Highest channel
c. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
d. Repeat above procedures until all frequencies measured was complete.

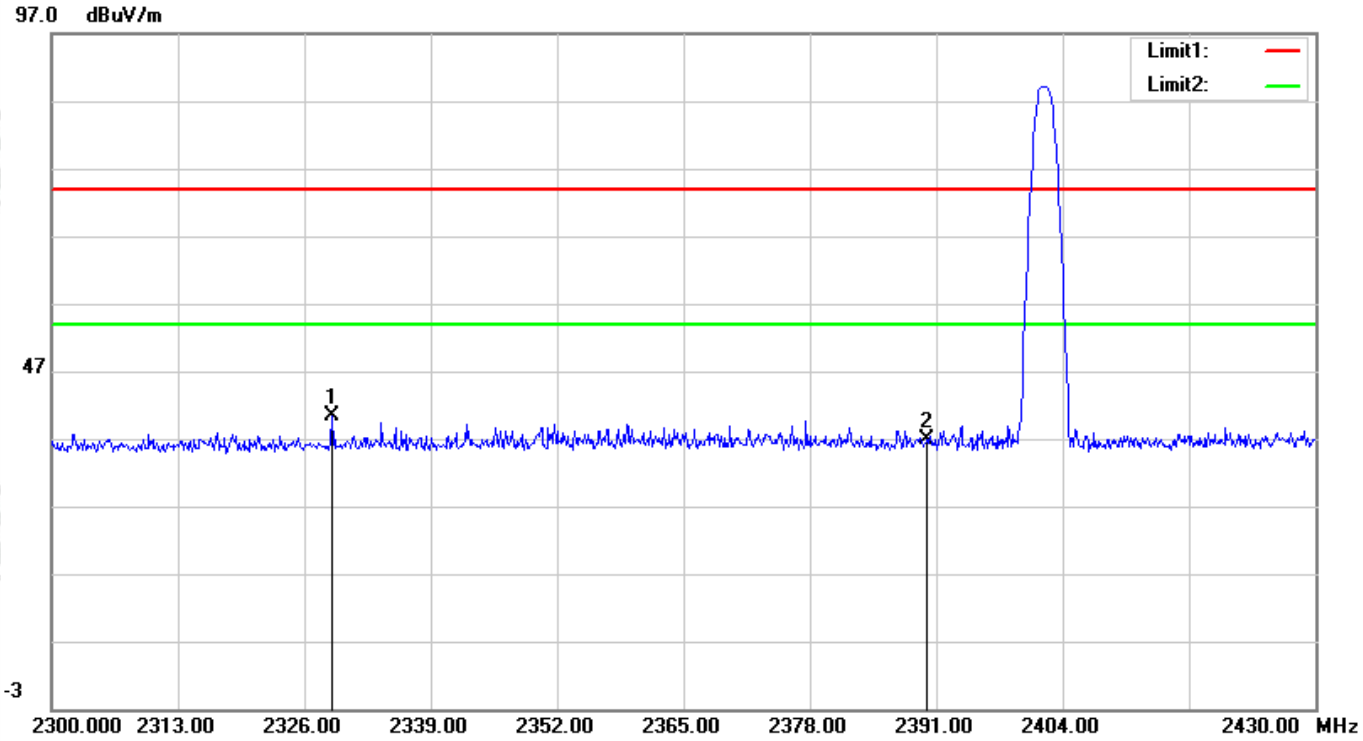
Limit:

Frequency	Limit (dBμV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test plot as follows:

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC9G Ble

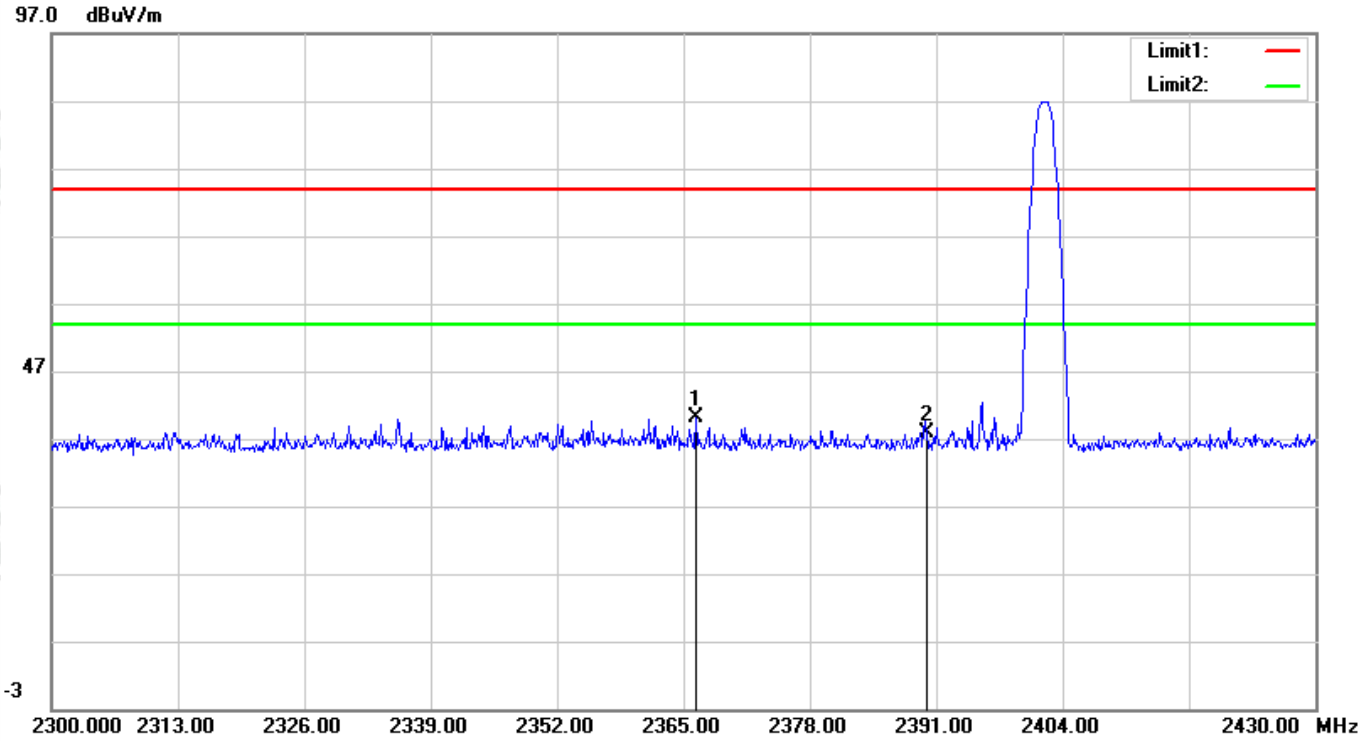
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2328.860	37.73	2.55	40.28	74.00	-33.72	100	47	peak
2	2390.000	34.28	2.71	36.99	74.00	-37.01	100	25	peak

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJC9G Ble

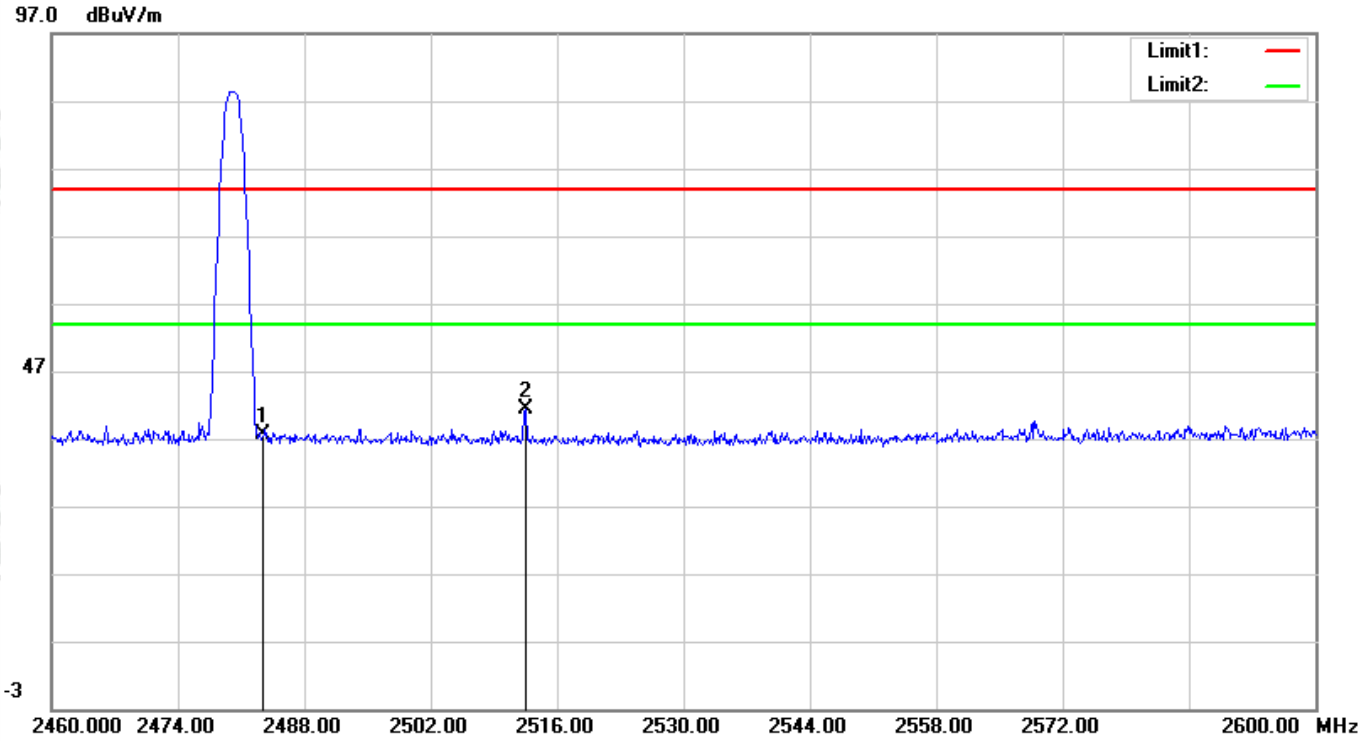
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2366.300	37.47	2.65	40.12	74.00	-33.88	200	65	peak
2	2390.000	35.18	2.71	37.89	74.00	-36.11	119	0	peak

Mode:	BLE_1M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC9G Ble

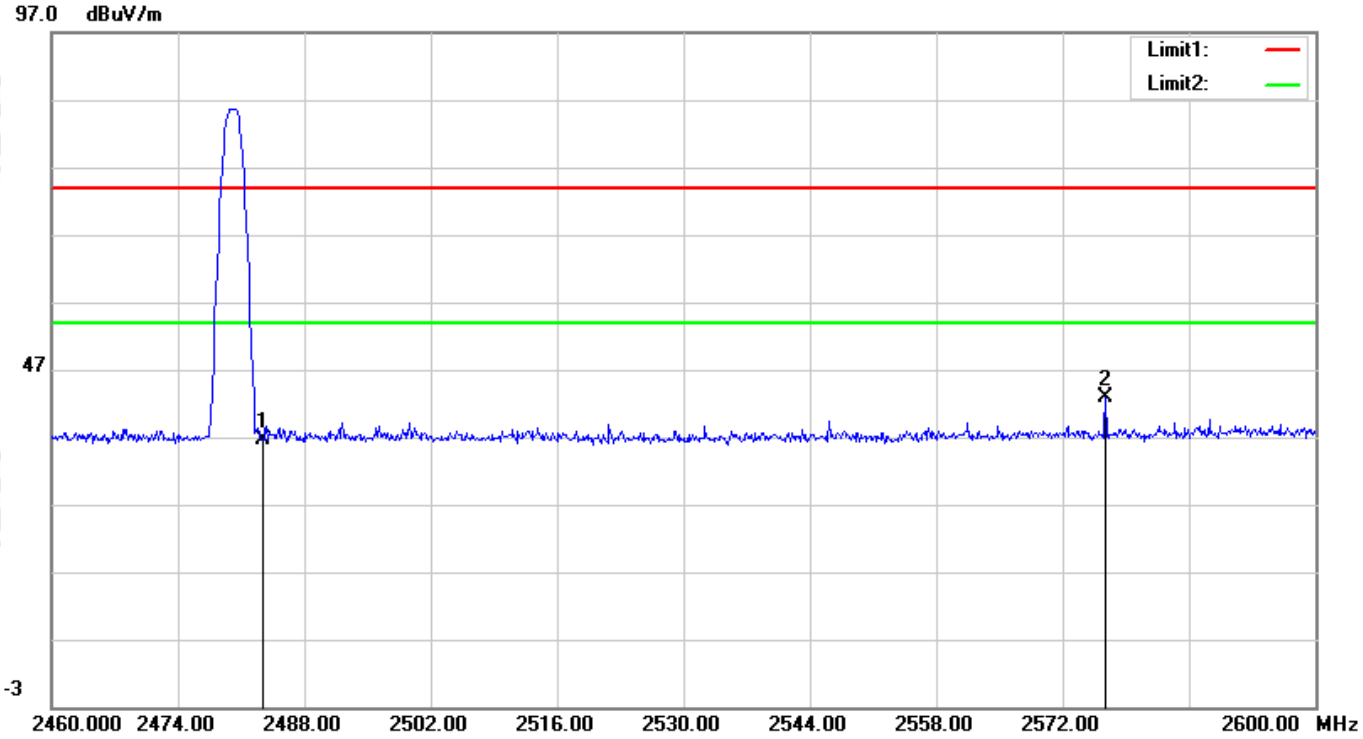
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.68	2.92	37.60	74.00	-36.40	100	164	peak
2	2512.500	38.28	2.98	41.26	74.00	-32.74	100	157	peak

Mode:	BLE_1M	Channel:	2480
Remark:	Vertical	Test model No.:	HJC9G Ble

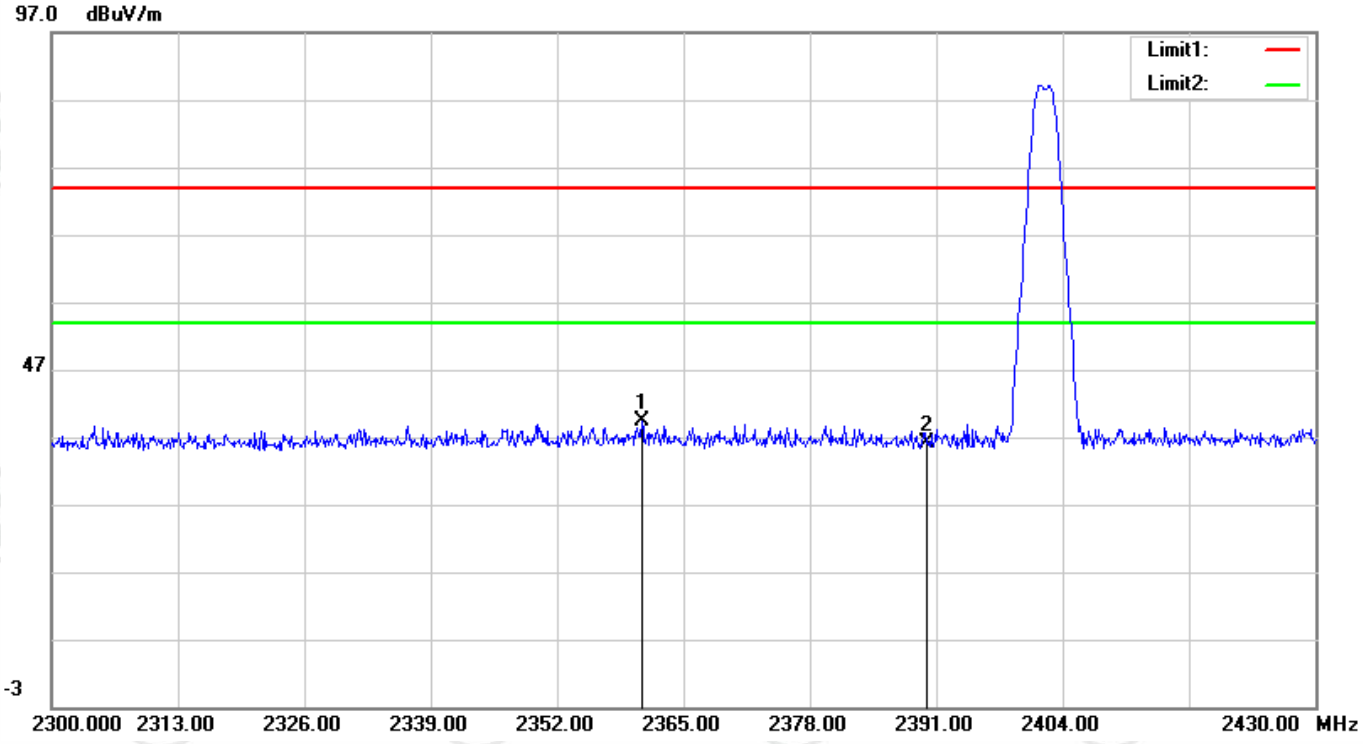
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	33.80	2.92	36.72	74.00	-37.28	200	16	peak
2	2576.760	39.81	3.11	42.92	74.00	-31.08	126	0	peak

Mode:	BLE_2M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC9G Ble

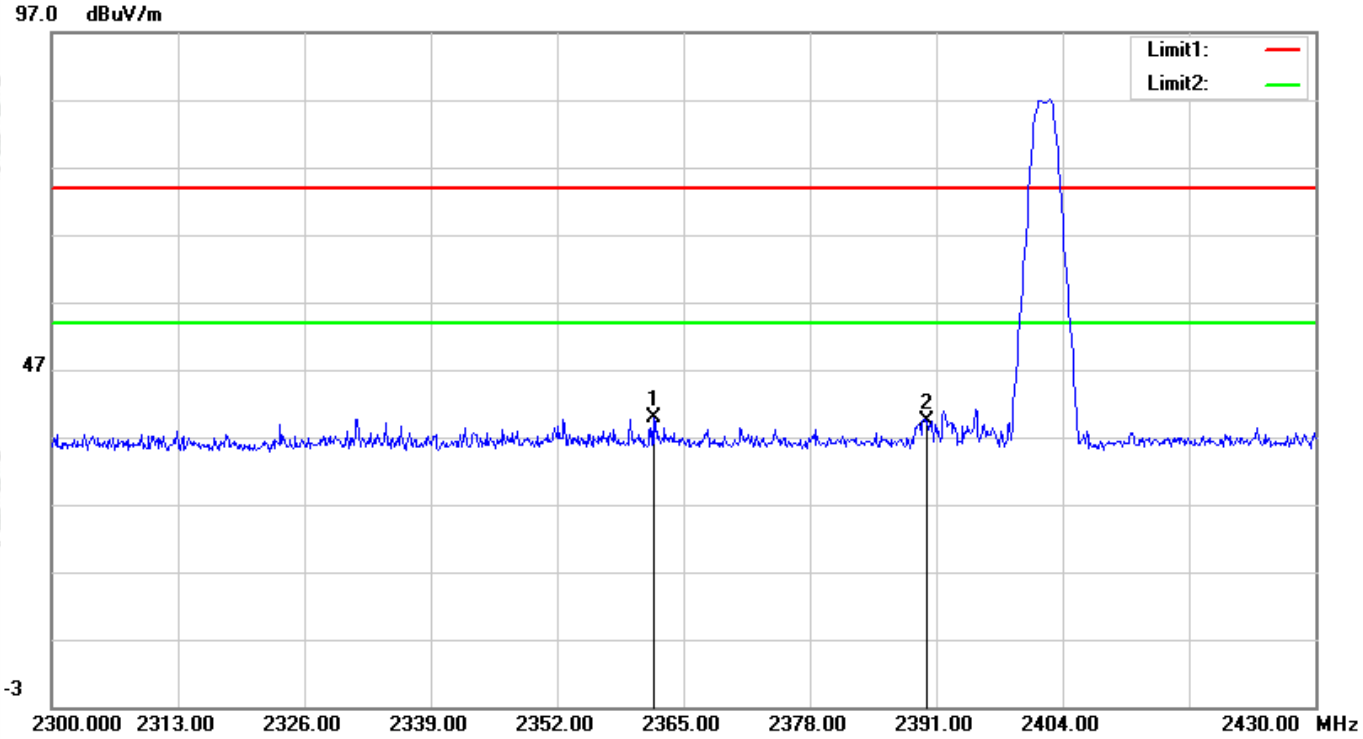
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2360.710	36.79	2.63	39.42	74.00	-34.58	100	338	peak
2	2390.000	33.36	2.71	36.07	74.00	-37.93	200	54	peak

Mode:	BLE_2M	Channel:	2402
Remark:	Vertical	Test model No.:	HJC9G Ble

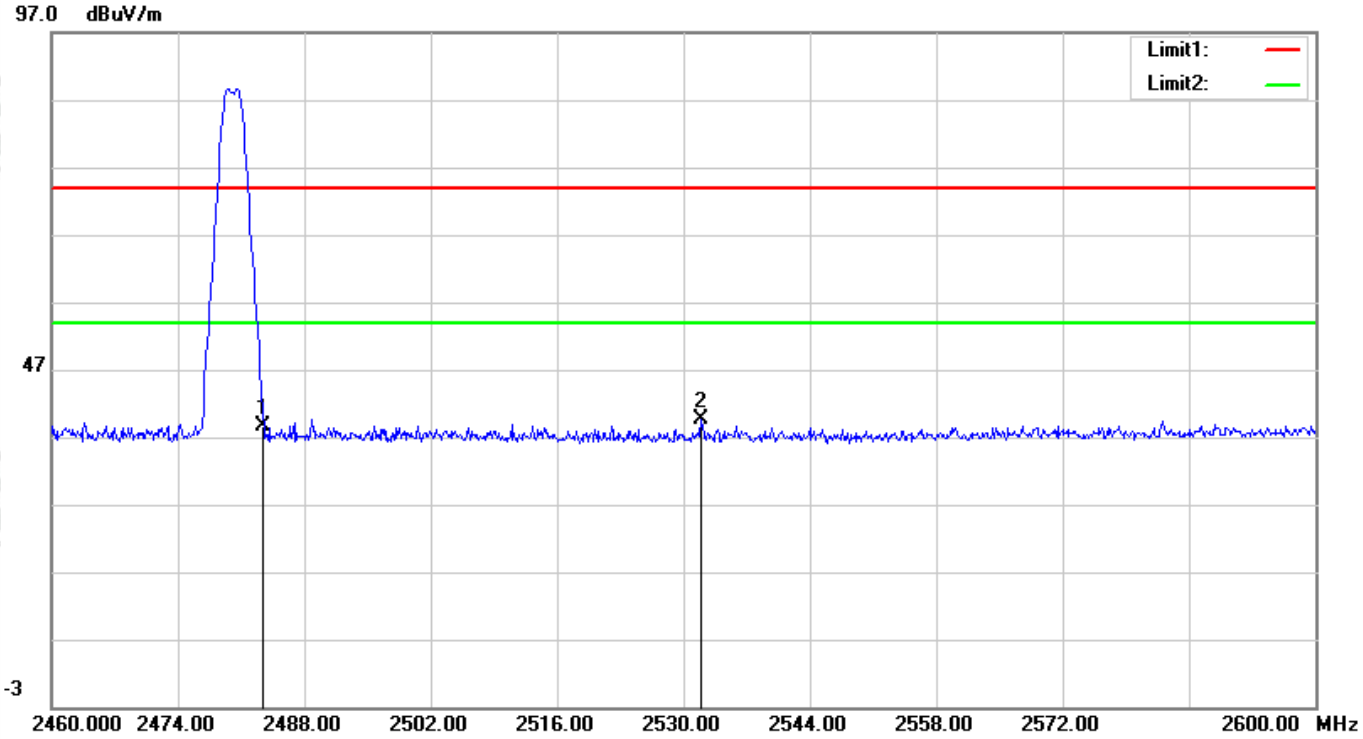
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2361.880	37.16	2.64	39.80	74.00	-34.20	200	66	peak
2	2390.000	36.58	2.71	39.29	74.00	-34.71	143	0	peak

Mode:	BLE_2M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC9G Ble

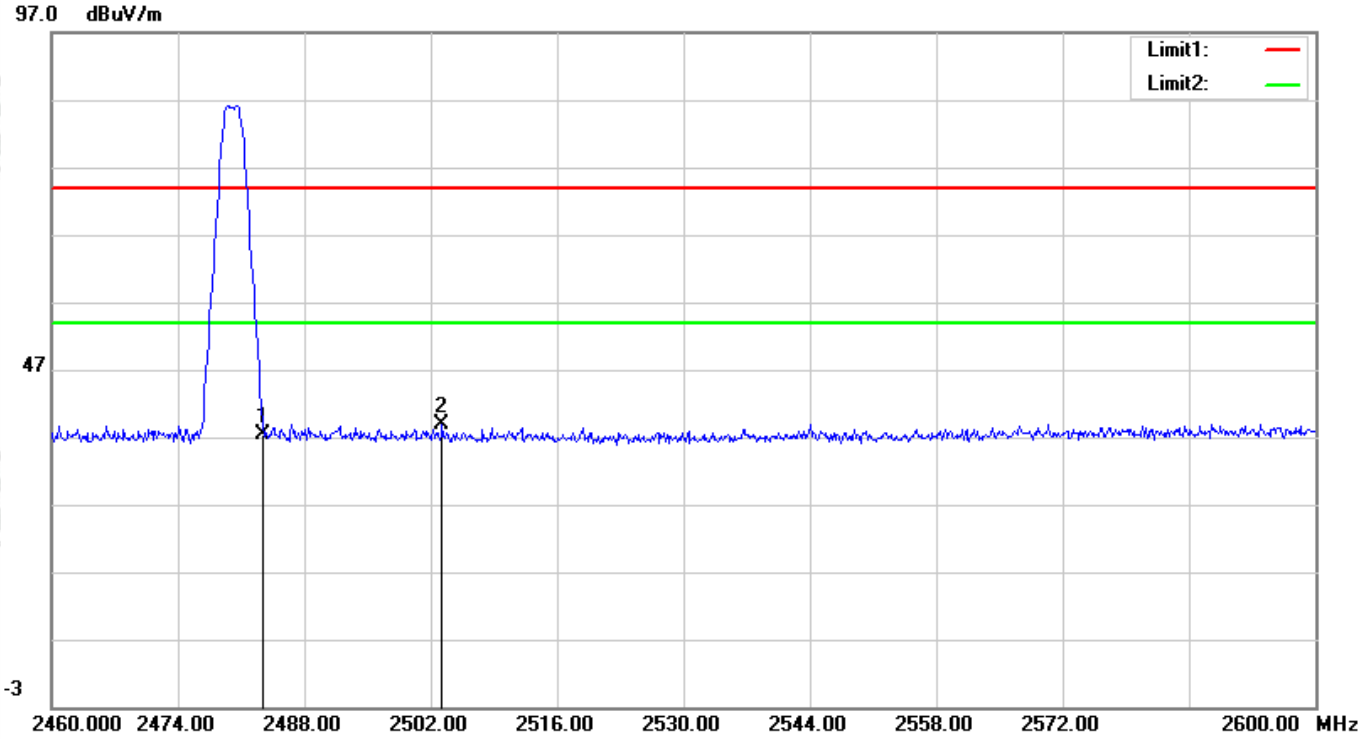
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	35.75	2.92	38.67	74.00	-35.33	100	359	peak
2	2531.960	36.67	3.02	39.69	74.00	-34.31	100	152	peak

Mode:	BLE_2M	Channel:	2480
Remark:	Vertical	Test model No.:	HJC9G Ble

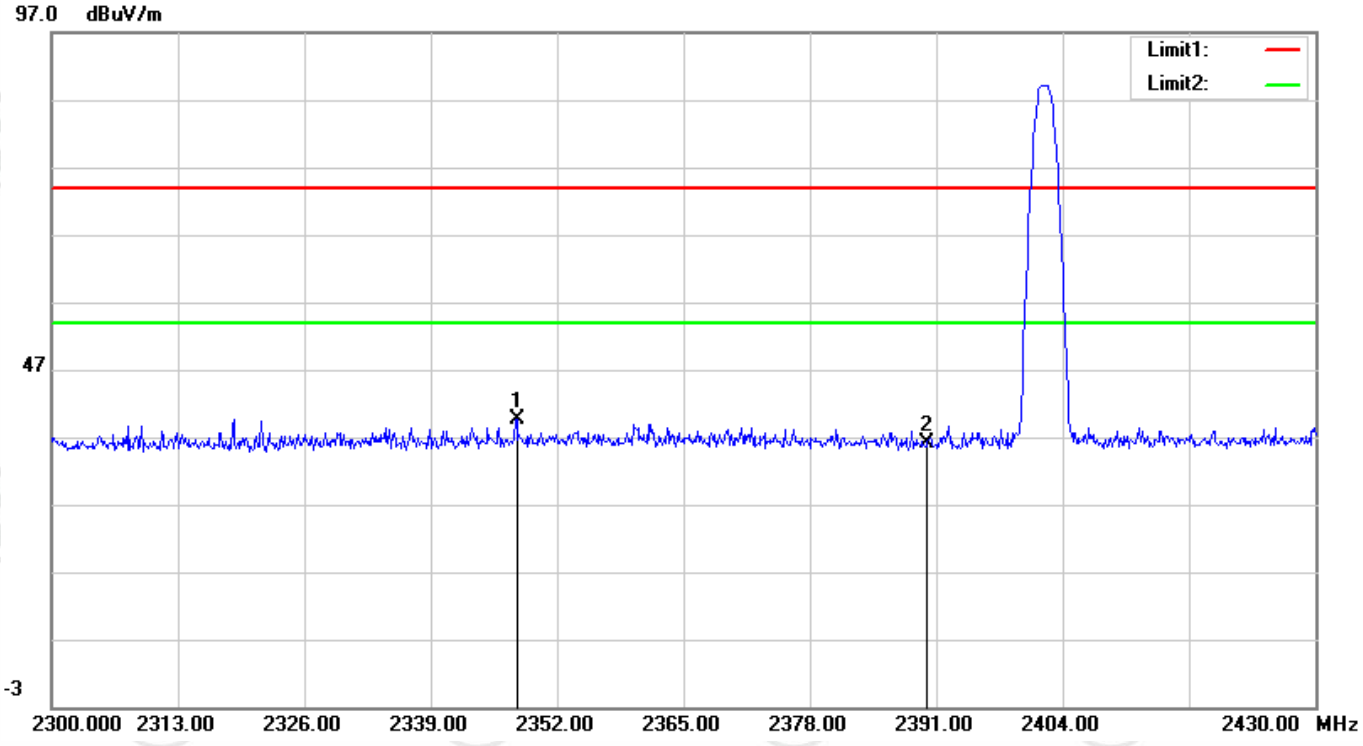
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.41	2.92	37.33	74.00	-36.67	137	0	peak
2	2503.260	36.03	2.96	38.99	74.00	-35.01	100	239	peak

Mode:	BLE_125kbps	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC9G Ble

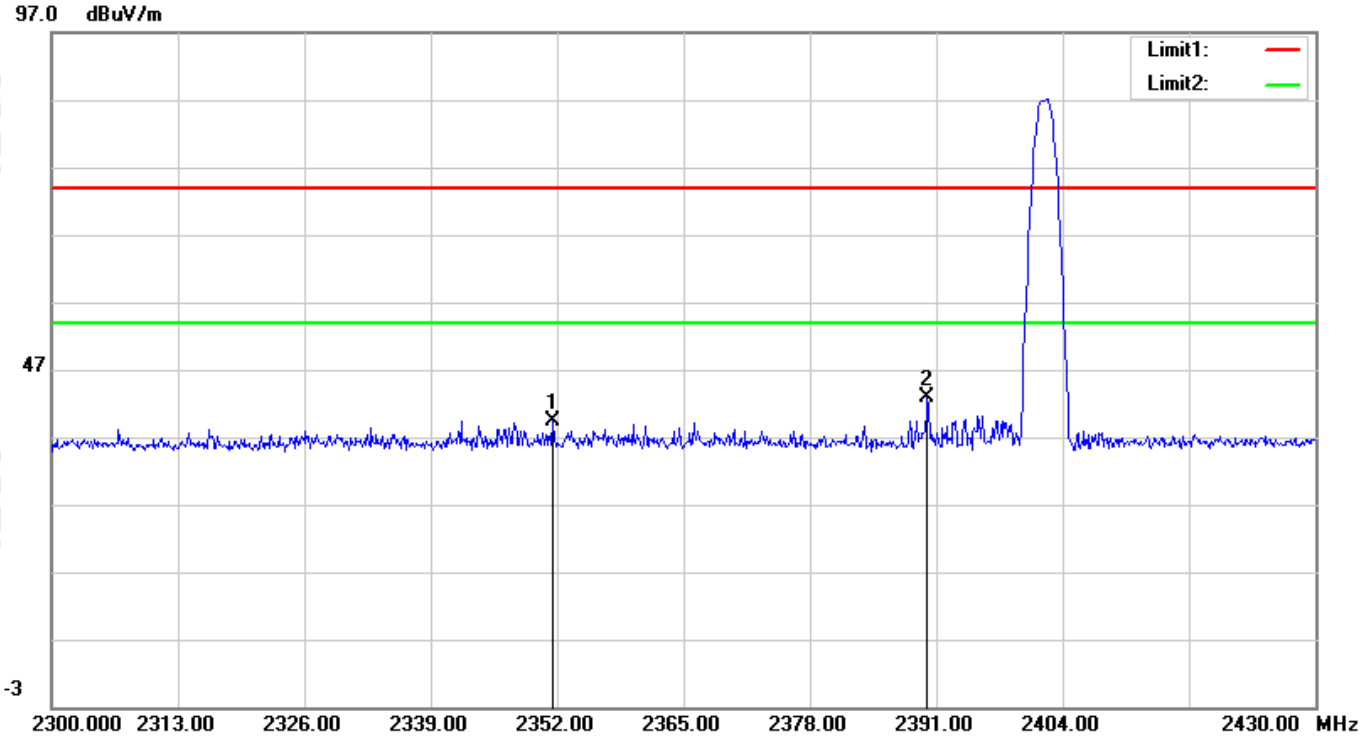
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2347.840	37.03	2.60	39.63	74.00	-34.37	100	168	peak
2	2390.000	33.52	2.71	36.23	74.00	-37.77	100	360	peak

Mode:	BLE_125kbps	Channel:	2402
Remark:	Vertical	Test model No.:	HJC9G Ble

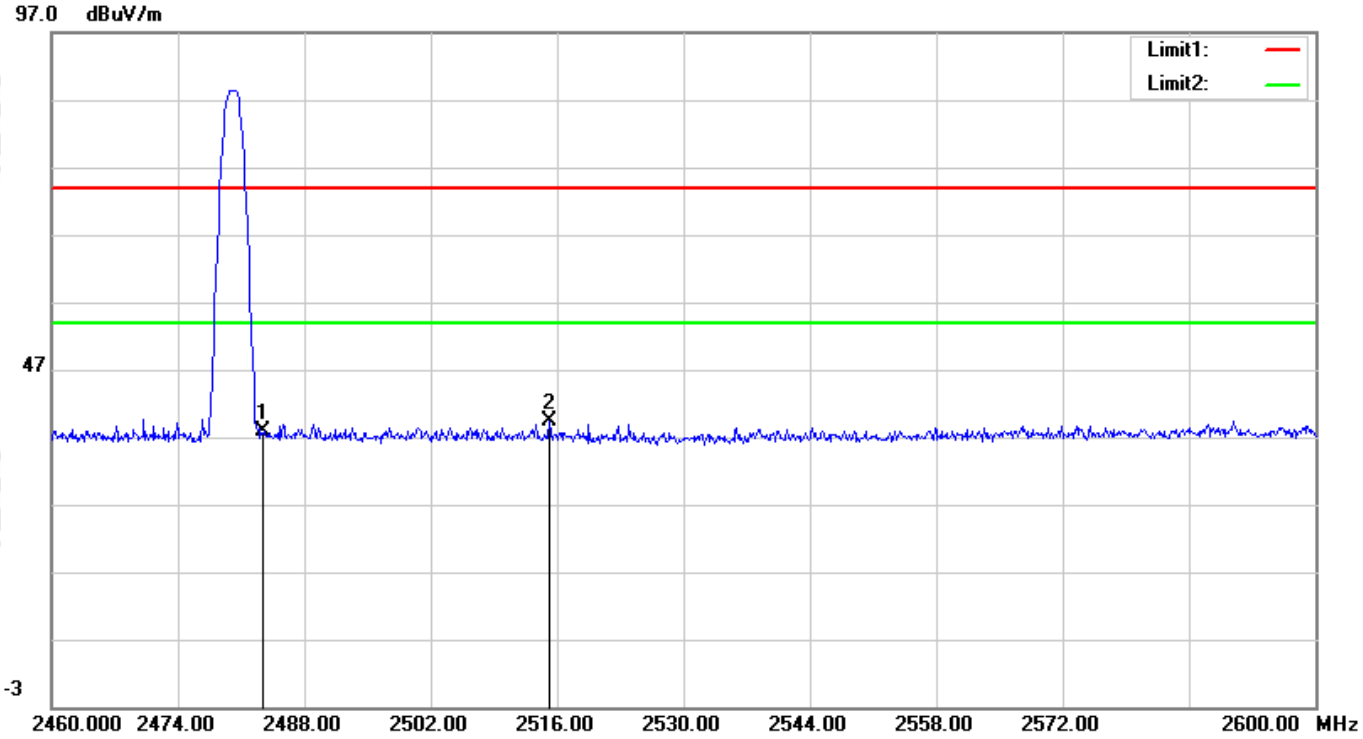
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2351.480	36.79	2.61	39.40	74.00	-34.60	200	79	peak
2	2390.000	40.19	2.71	42.90	74.00	-31.10	200	100	peak

Mode:	BLE_125kbps	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC9G Ble

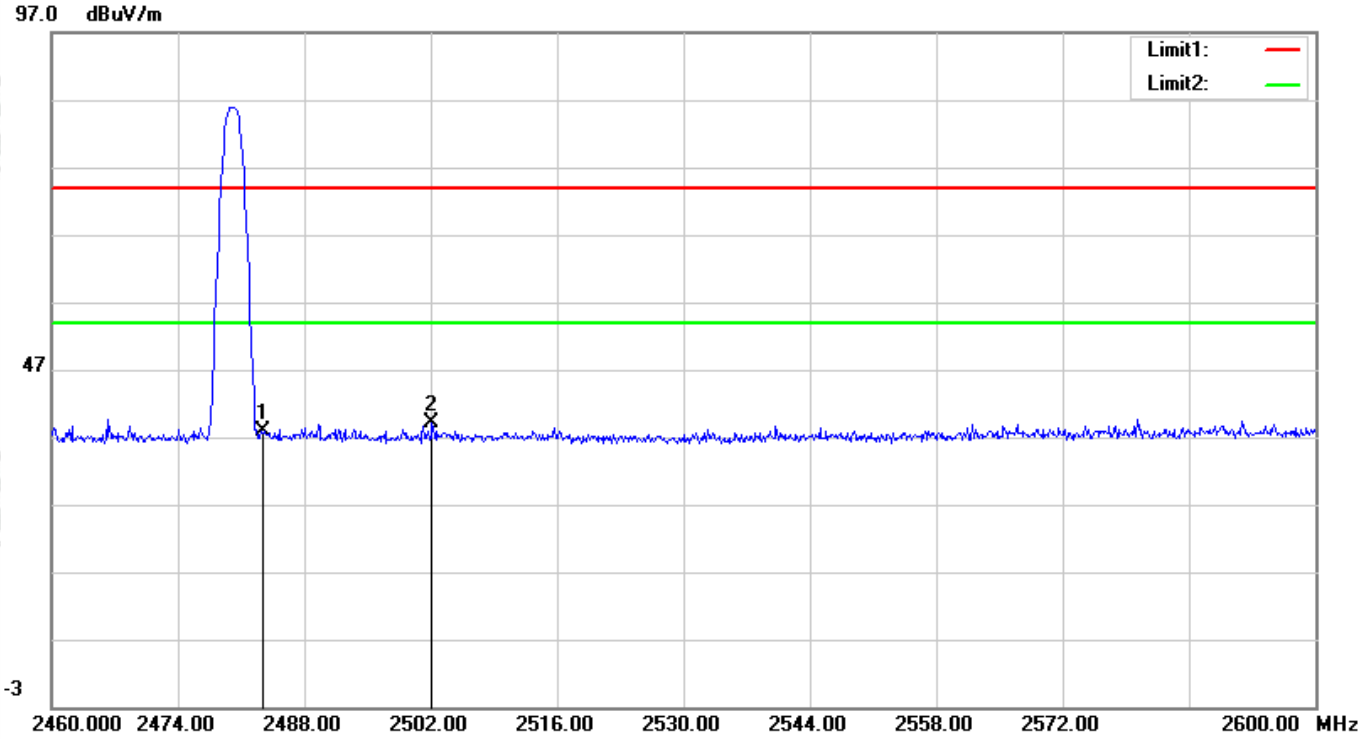
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.88	2.92	37.80	74.00	-36.20	100	59	peak
2	2515.160	36.32	2.98	39.30	74.00	-34.70	200	335	peak

Mode:	BLE_125kbps	Channel:	2480
Remark:	Vertical	Test model No.:	HJC9G Ble

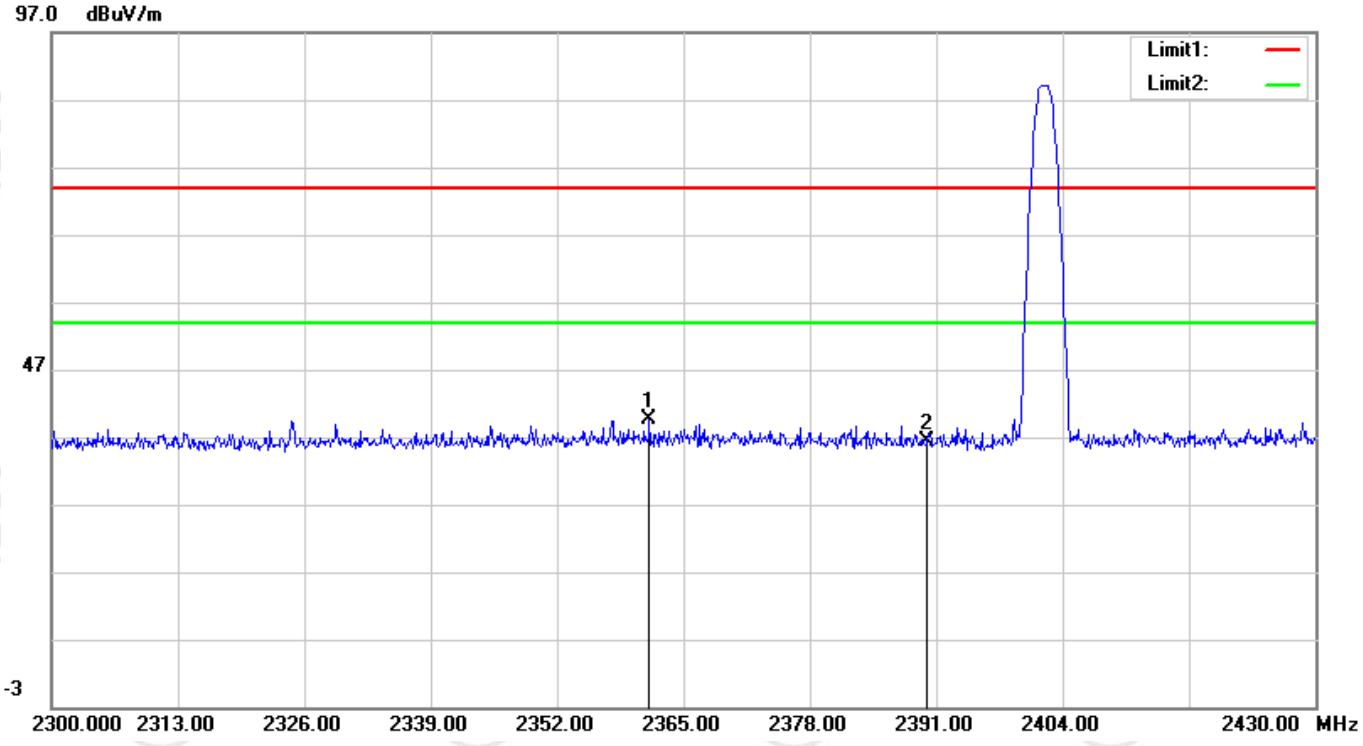
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.95	2.92	37.87	74.00	-36.13	115	360	peak
2	2502.140	36.08	2.95	39.03	74.00	-34.97	100	122	peak

Mode:	BLE_500kbps	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC9G Ble

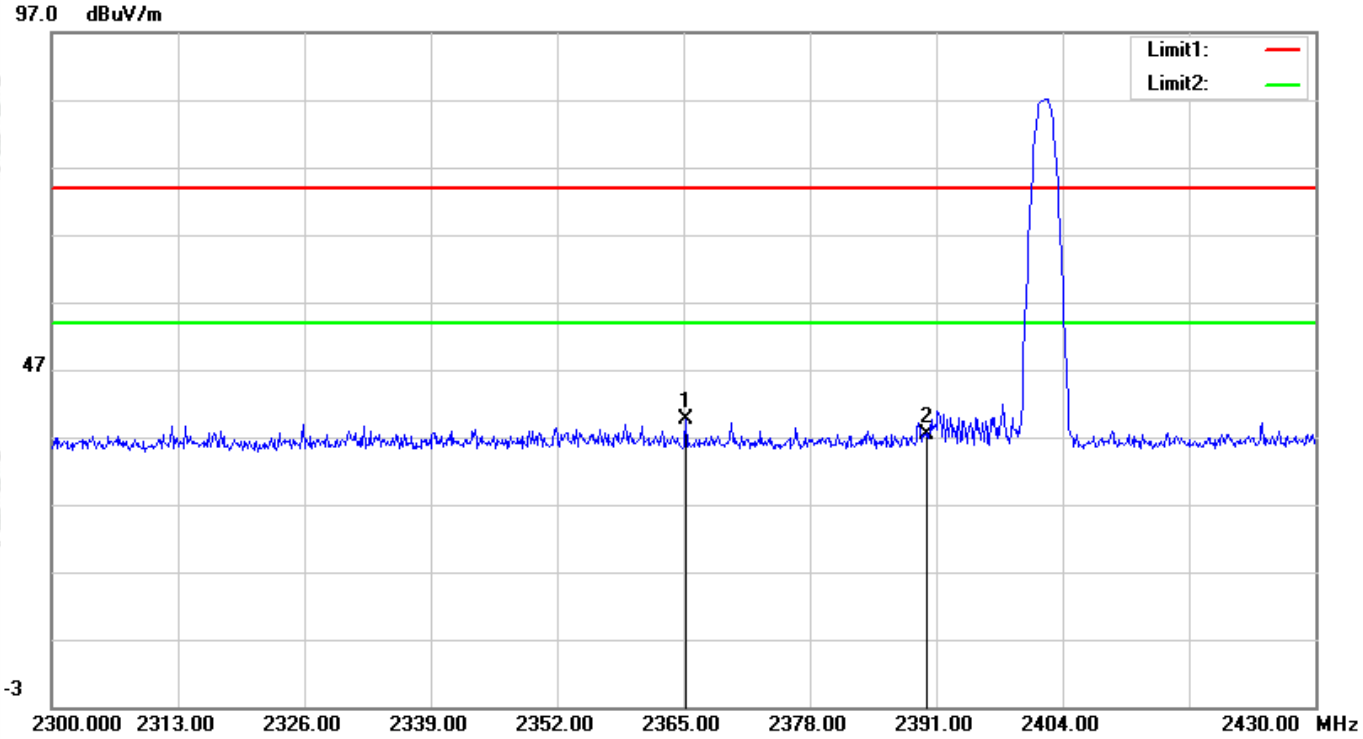
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2361.490	37.02	2.64	39.66	74.00	-34.34	200	326	peak
2	2390.000	33.63	2.71	36.34	74.00	-37.66	157	0	peak

Mode:	BLE_500kbps	Channel:	2402
Remark:	Vertical	Test model No.:	HJC9G Ble

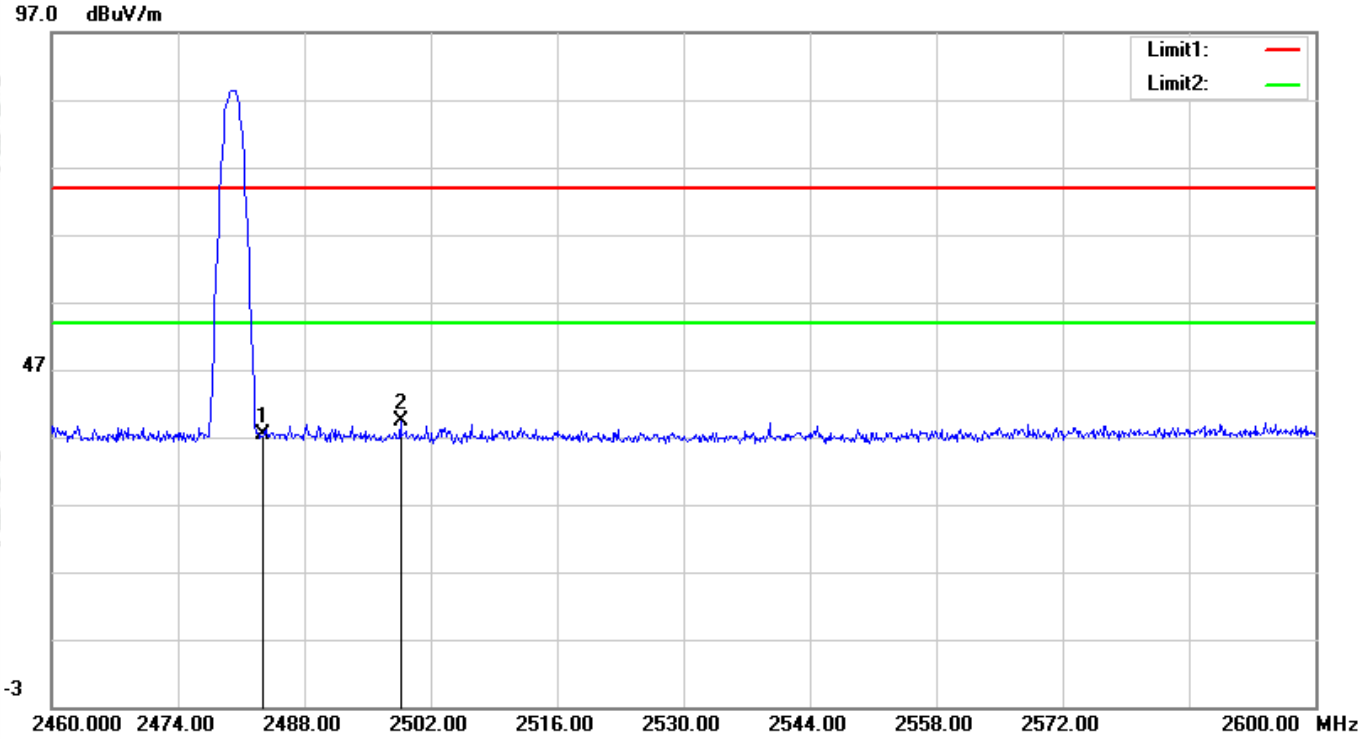
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2365.260	36.87	2.65	39.52	74.00	-34.48	200	69	peak
2	2390.000	34.55	2.71	37.26	74.00	-36.74	190	0	peak

Mode:	BLE_500kbps	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC9G Ble

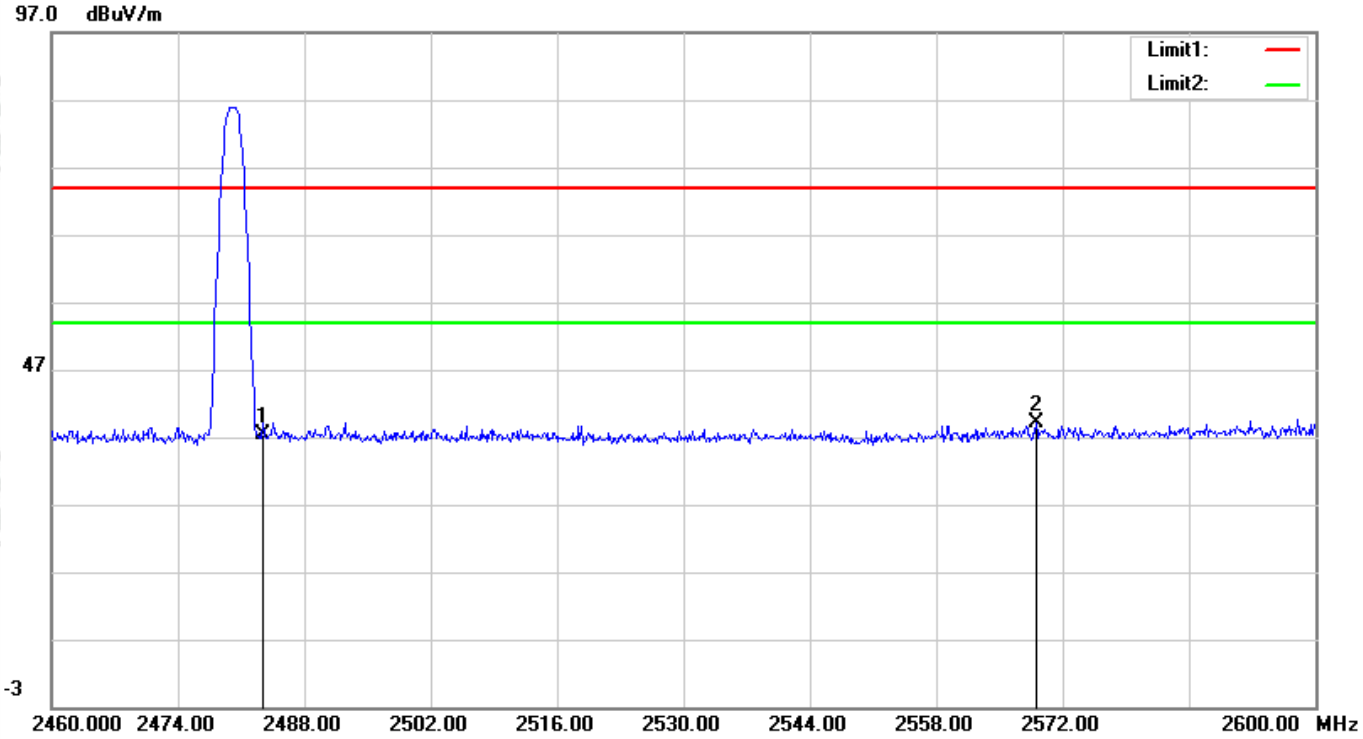
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.36	2.92	37.28	74.00	-36.72	200	321	peak
2	2498.640	36.51	2.95	39.46	74.00	-34.54	134	360	peak

Mode:	BLE_500kbps	Channel:	2480
Remark:	Vertical	Test model No.:	HJC9G Ble

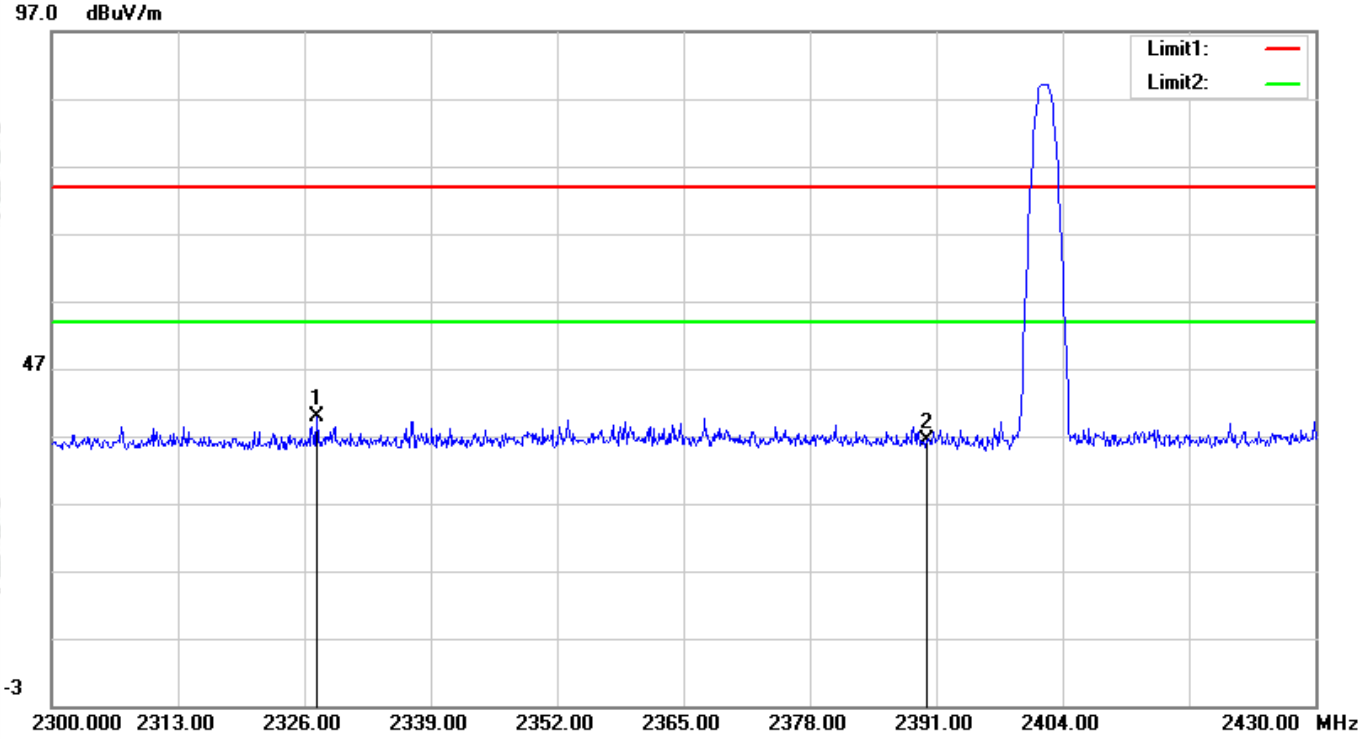
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.35	2.92	37.27	74.00	-36.73	100	40	peak
2	2569.060	35.97	3.10	39.07	74.00	-34.93	100	129	peak

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC26C Ble

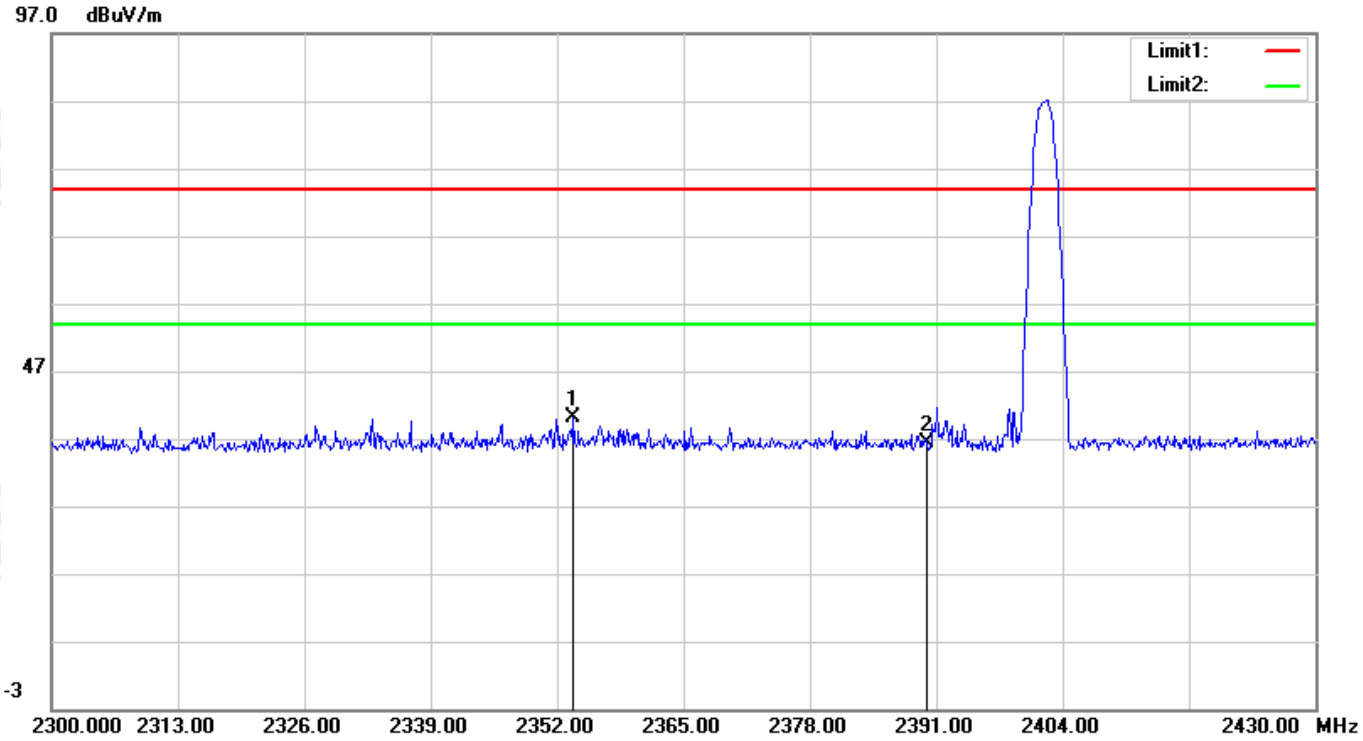
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2327.300	37.29	2.54	39.83	74.00	-34.17	100	152	peak
2	2390.000	33.68	2.71	36.39	74.00	-37.61	200	317	peak

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJC26C Ble

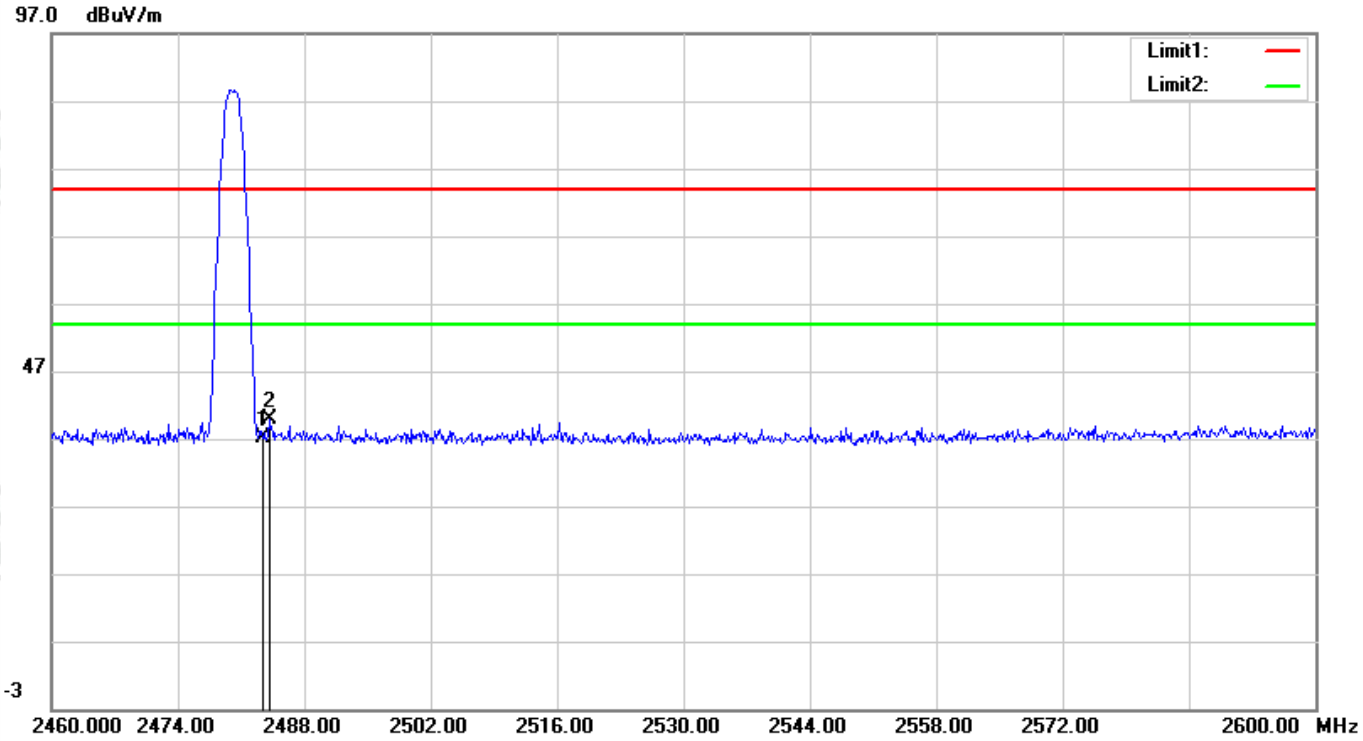
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2353.690	37.45	2.61	40.06	74.00	-33.94	200	84	peak
2	2390.000	33.65	2.71	36.36	74.00	-37.64	106	0	peak

Mode:	BLE_1M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC26C Ble

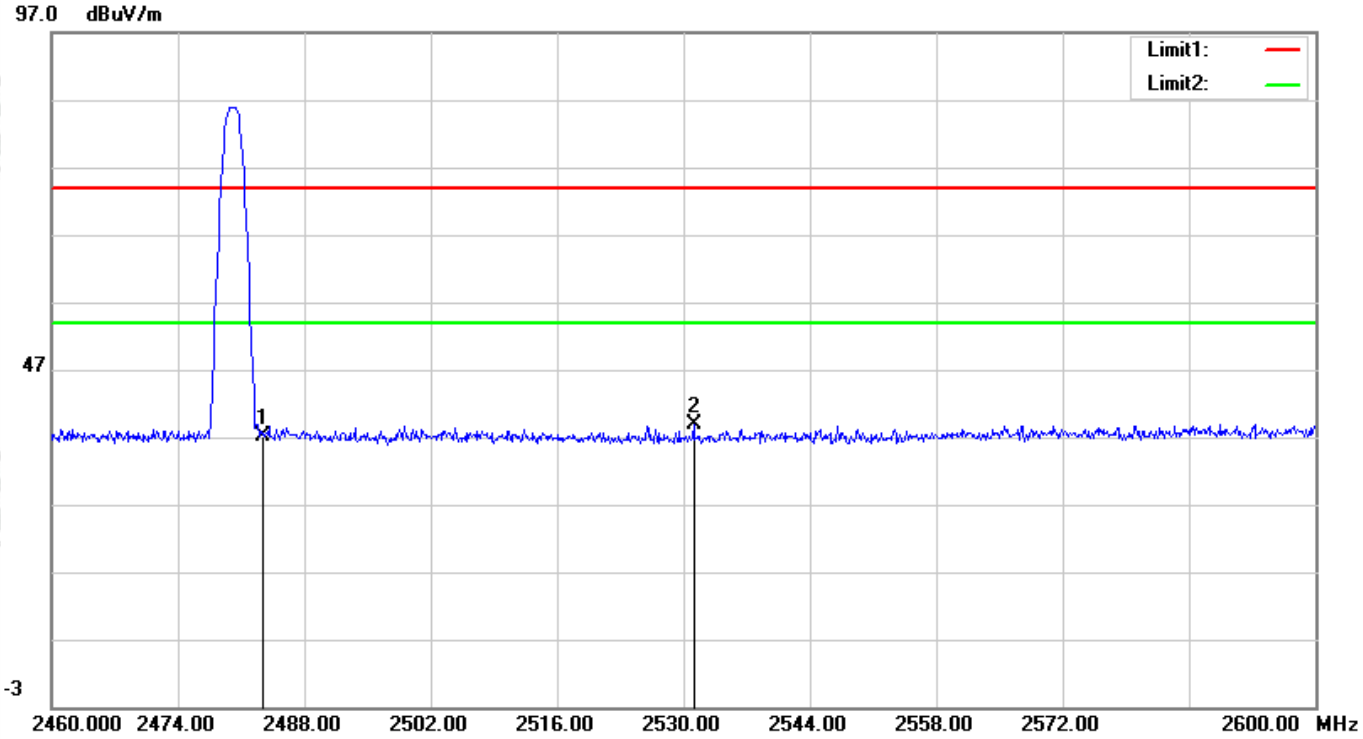
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.12	2.92	37.04	74.00	-36.96	100	335	peak
2	2484.080	36.89	2.92	39.81	74.00	-34.19	100	237	peak

Mode:	BLE_1M	Channel:	2480
Remark:	Vertical	Test model No.:	HJC26C Ble

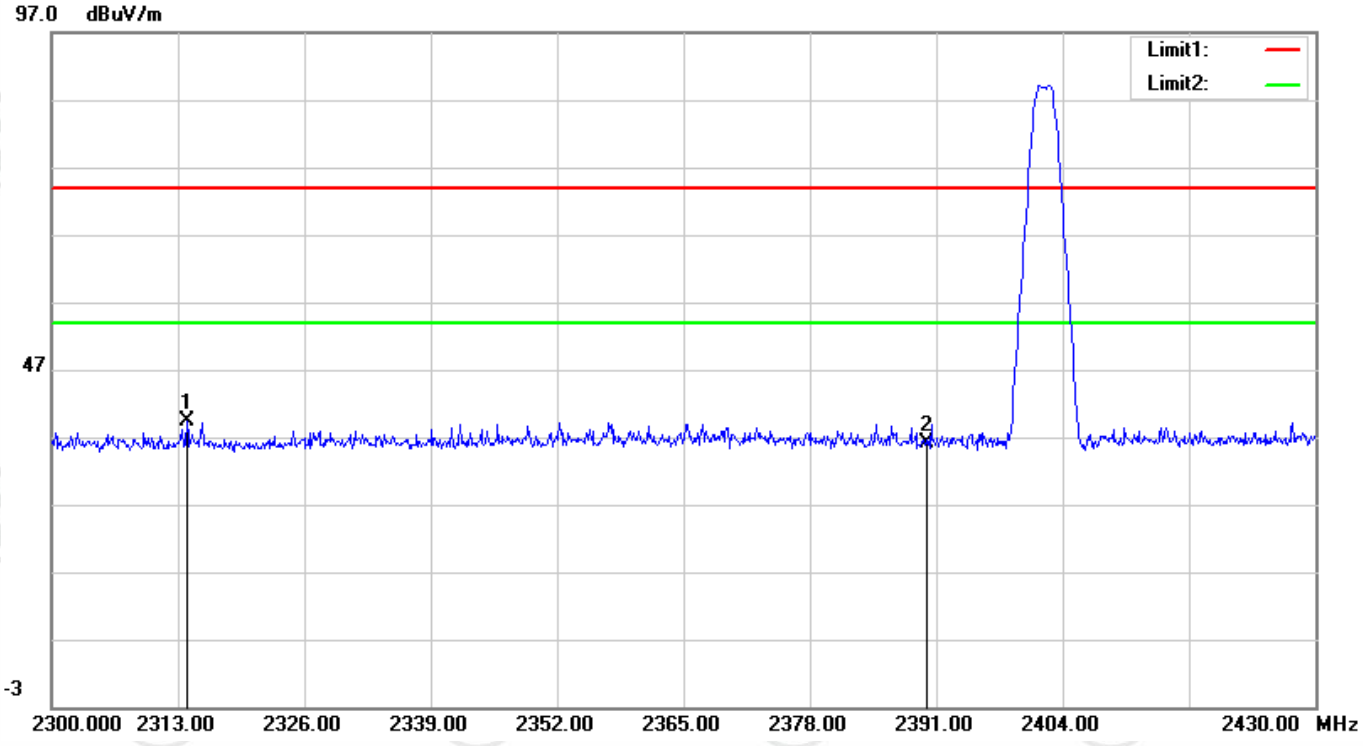
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.25	2.92	37.17	74.00	-36.83	110	360	peak
2	2531.120	35.81	3.02	38.83	74.00	-35.17	200	207	peak

Mode:	BLE_2M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC26C Ble

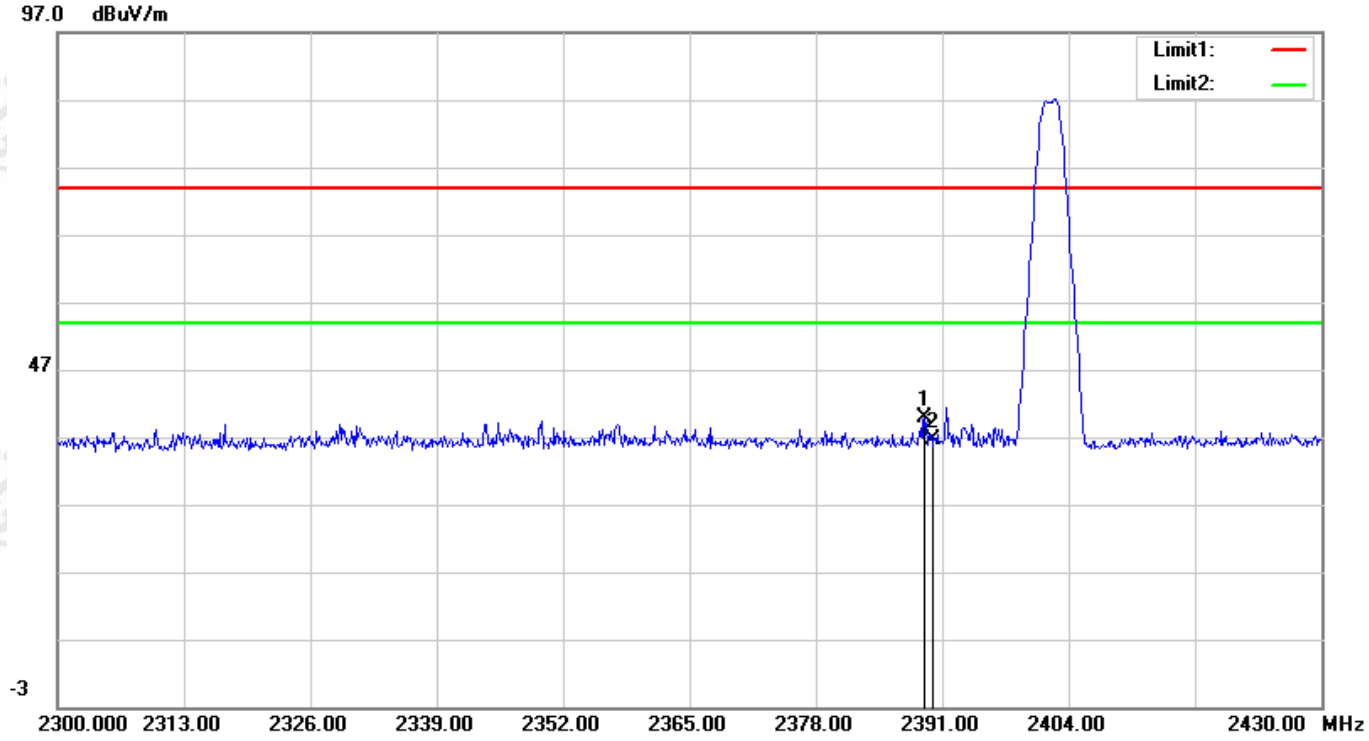
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2313.910	36.92	2.51	39.43	74.00	-34.57	100	156	peak
2	2390.000	33.49	2.71	36.20	74.00	-37.80	200	327	peak

Mode:	BLE_2M	Channel:	2402
Remark:	Vertical	Test model No.:	HJC26C Ble

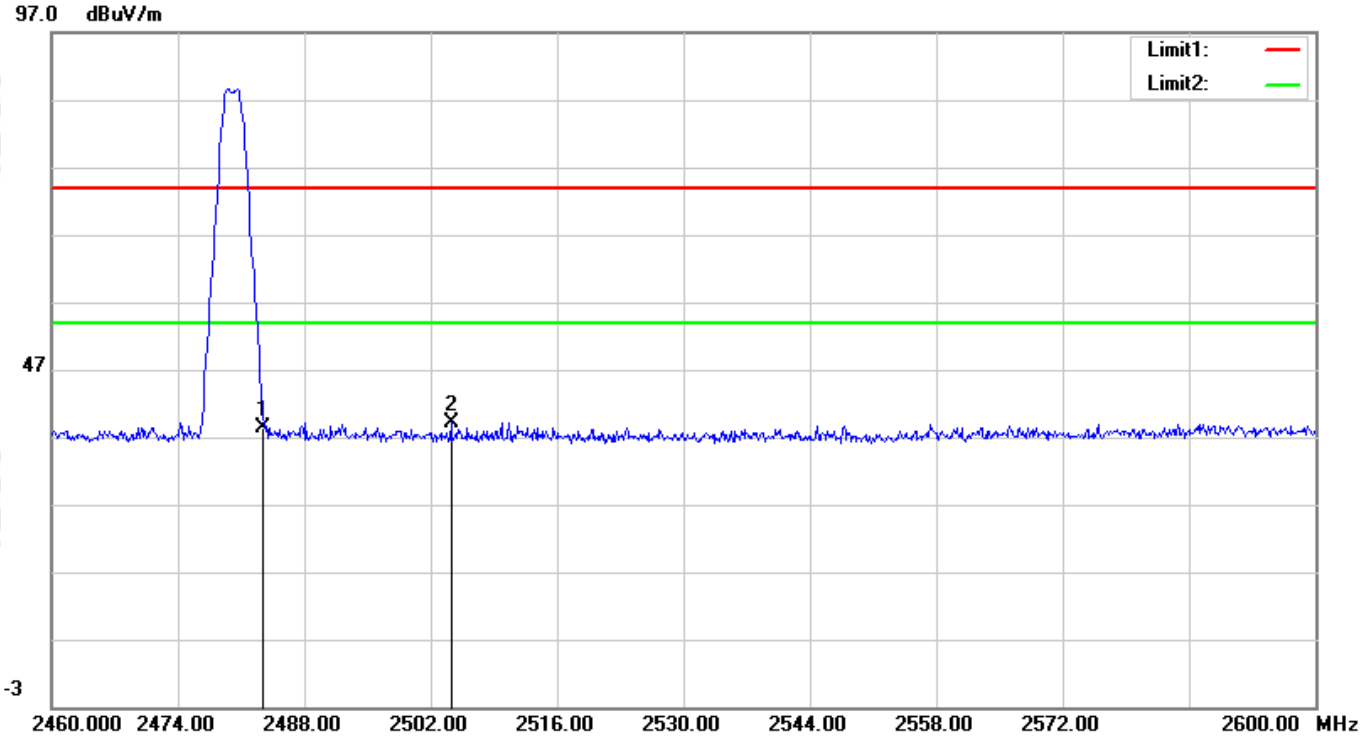
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.180	37.10	2.71	39.81	74.00	-34.19	200	337	peak
2	2390.000	33.93	2.71	36.64	74.00	-37.36	200	337	peak

Mode:	BLE_2M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC26C Ble

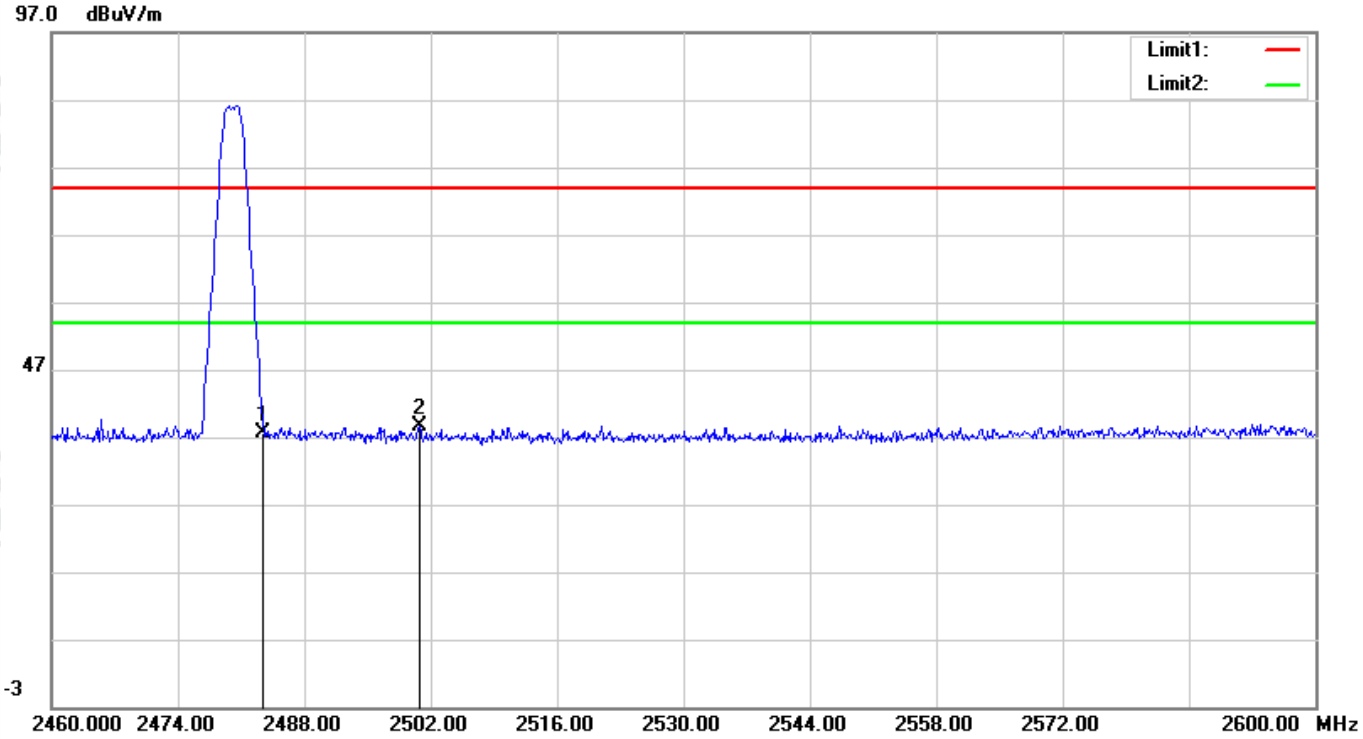
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	35.53	2.92	38.45	74.00	-35.55	100	302	peak
2	2504.240	36.23	2.96	39.19	74.00	-34.81	200	315	peak

Mode:	BLE_2M	Channel:	2480
Remark:	Vertical	Test model No.:	HJC26C Ble

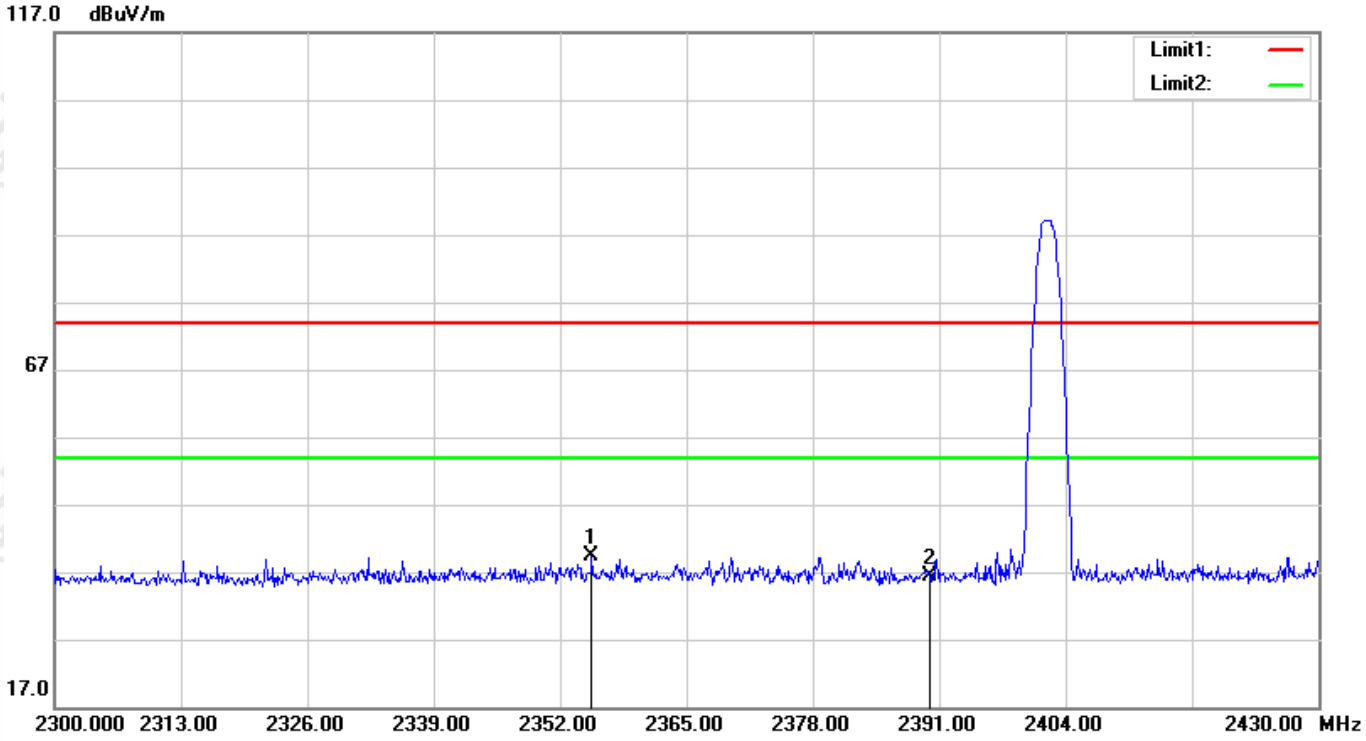
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.78	2.92	37.70	74.00	-36.30	100	356	peak
2	2500.740	35.70	2.95	38.65	74.00	-35.35	100	1	peak

Mode:	BLE_125kbps	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC26C Ble

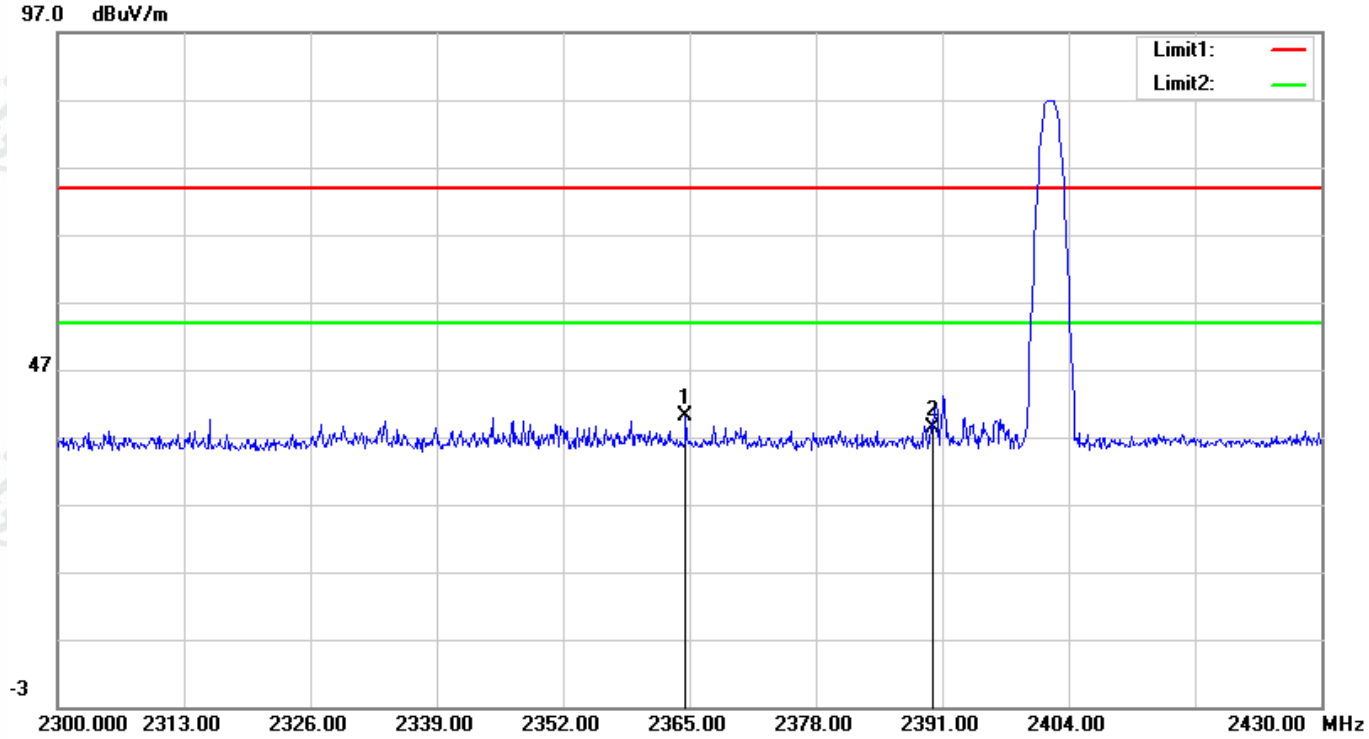
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2355.250	36.64	2.62	39.26	74.00	-34.74	200	332	peak
2	2390.000	33.64	2.71	36.35	74.00	-37.65	164	0	peak

Mode:	BLE_125kbps	Channel:	2402
Remark:	Vertical	Test model No.:	HJC26C Ble

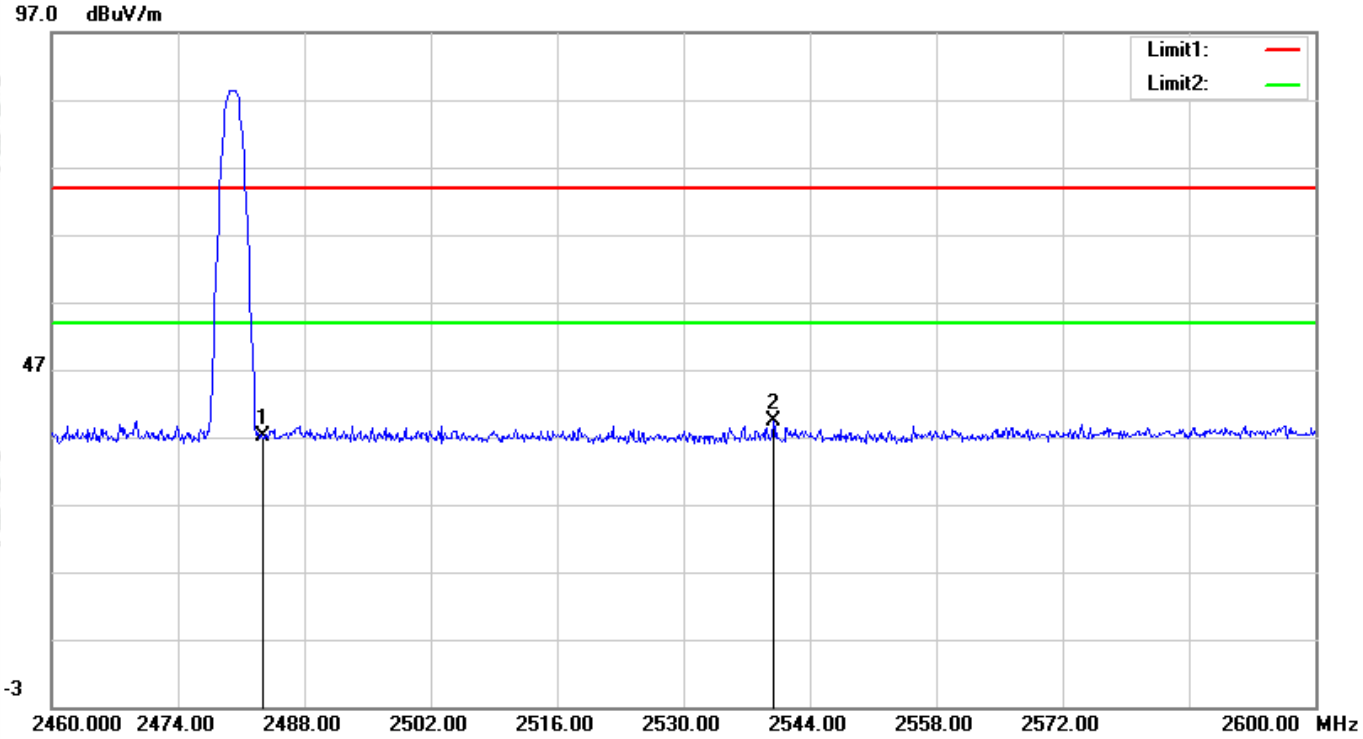
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2364.610	37.59	2.64	40.23	74.00	-33.77	200	65	peak
2	2390.000	35.56	2.71	38.27	74.00	-35.73	112	0	peak

Mode:	BLE_125kbps	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC26C Ble

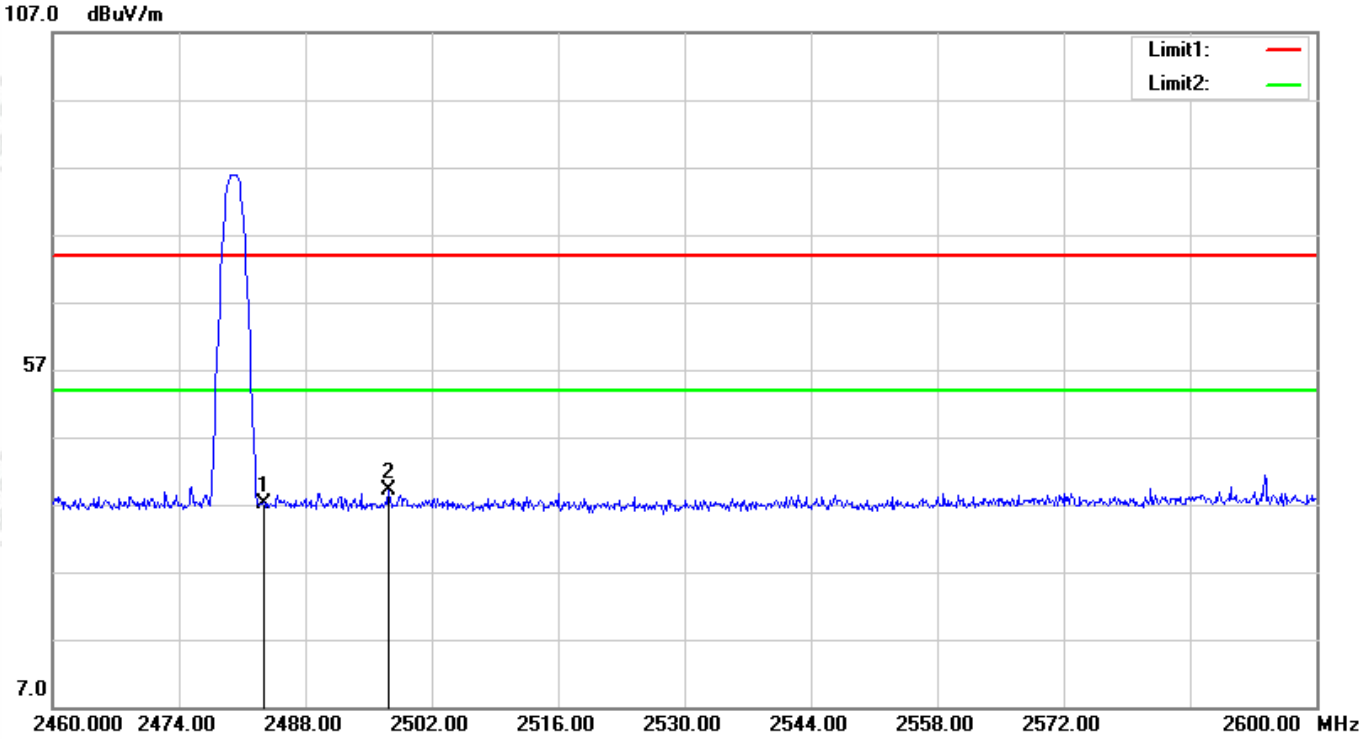
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.09	2.92	37.01	74.00	-36.99	100	0	peak
2	2539.940	36.26	3.03	39.29	74.00	-34.71	100	327	peak

Mode:	BLE_125kbps	Channel:	2480
Remark:	Vertical	Test model No.:	HJC26C Ble

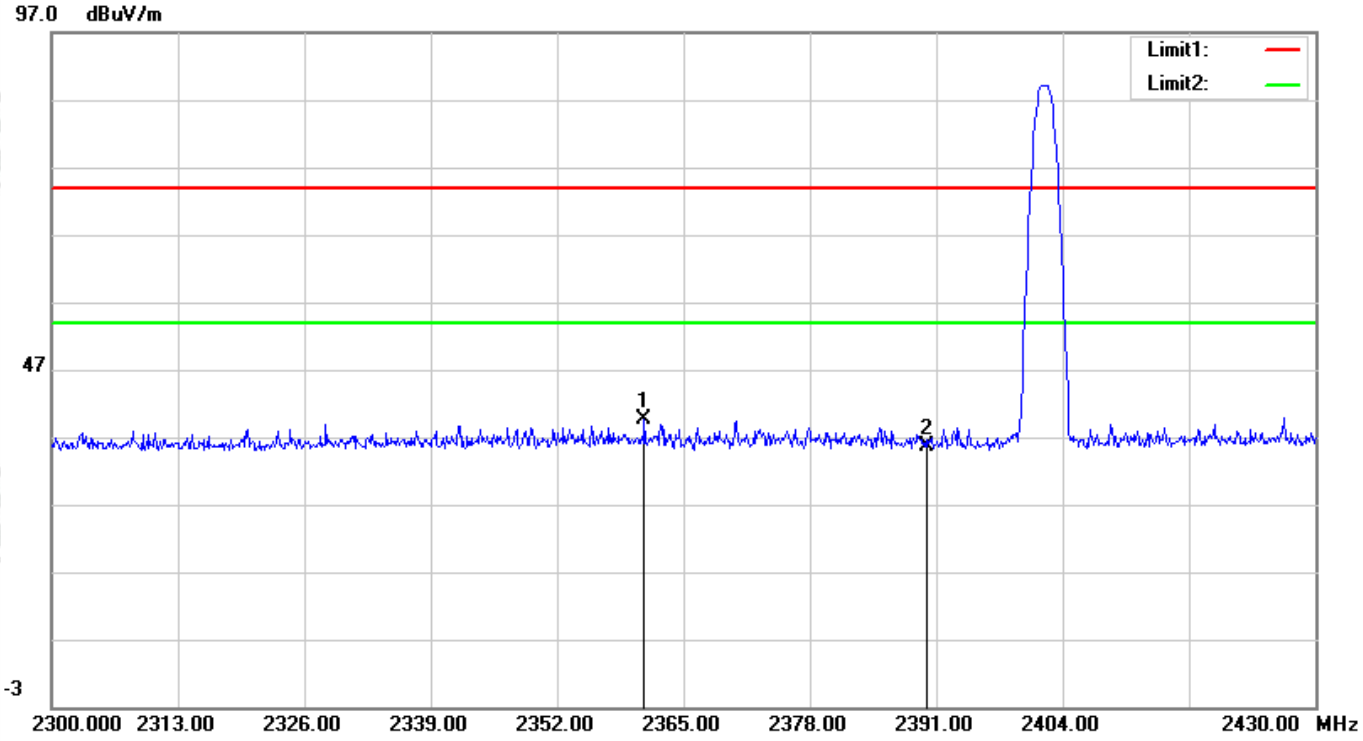
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.17	2.92	37.09	74.00	-36.91	100	360	peak
2	2497.240	36.07	2.94	39.01	74.00	-34.99	127	360	peak

Mode:	BLE_500kbps	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC26C Ble

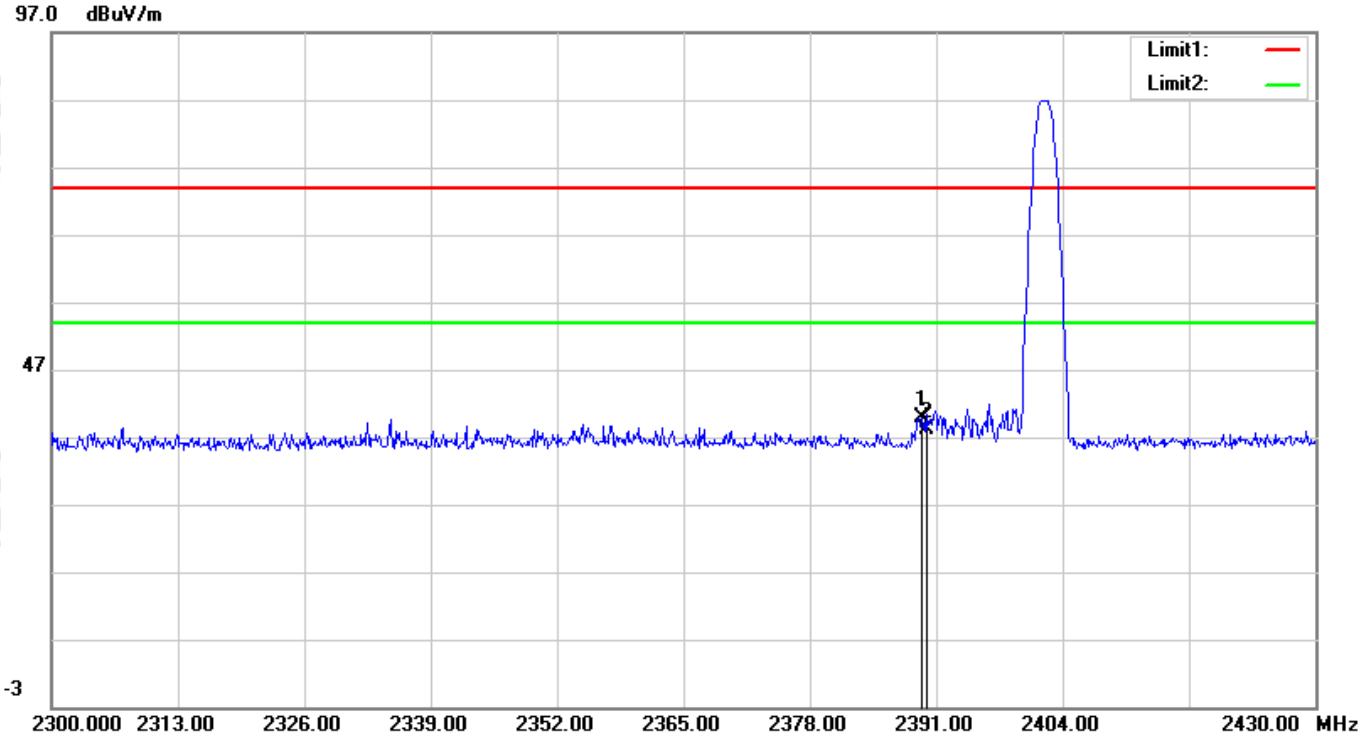
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2360.970	37.00	2.63	39.63	74.00	-34.37	200	332	peak
2	2390.000	32.97	2.71	35.68	74.00	-38.32	120	0	peak

Mode:	BLE_500kbps	Channel:	2402
Remark:	Vertical	Test model No.:	HJC26C Ble

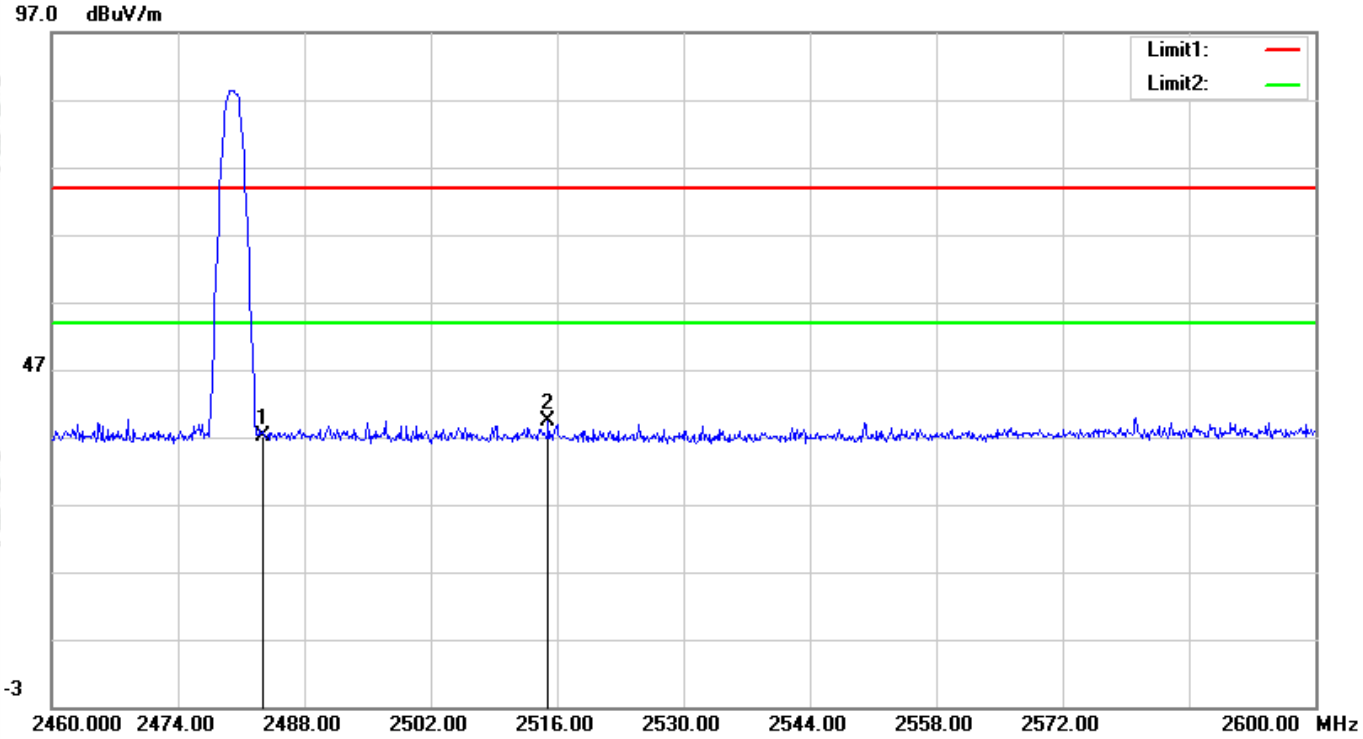
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.570	37.21	2.71	39.92	74.00	-34.08	126	0	peak
2	2390.000	35.46	2.71	38.17	74.00	-35.83	117	0	peak

Mode:	BLE_500kbps	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC26C Ble

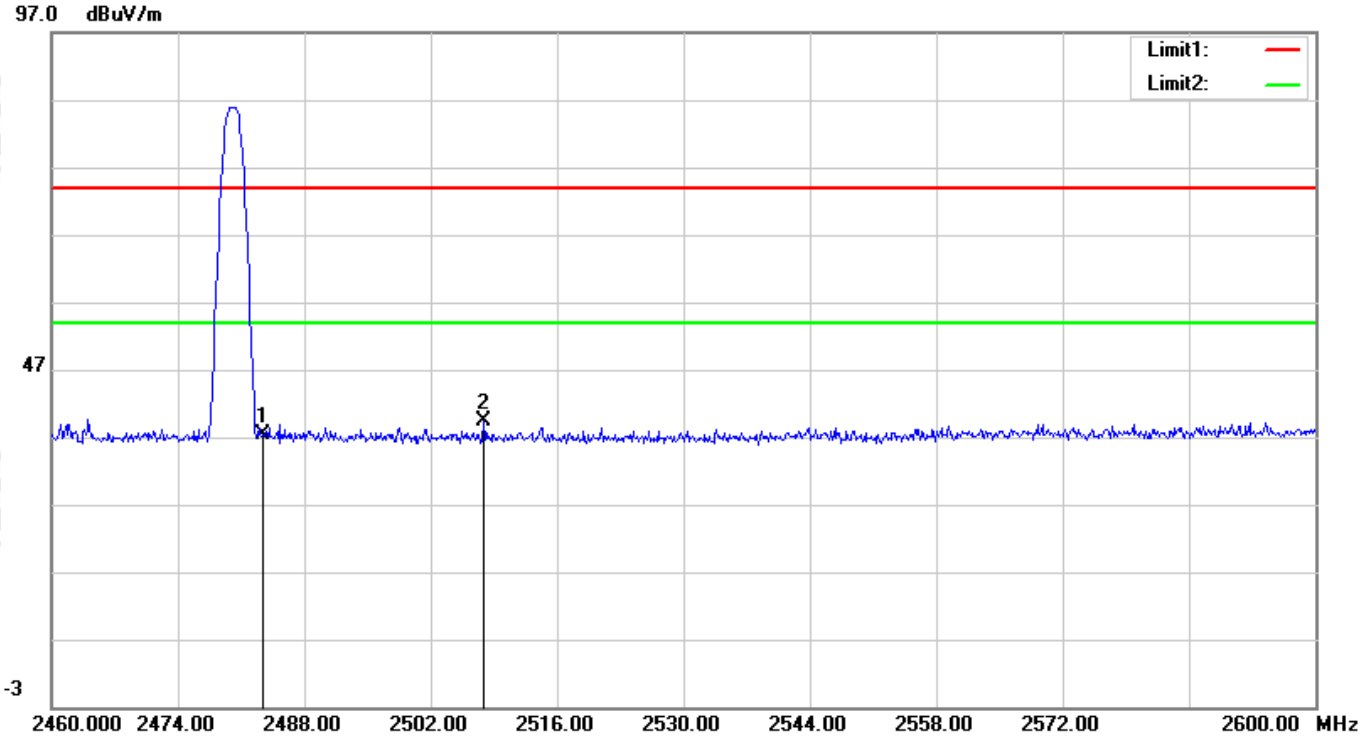
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.11	2.92	37.03	74.00	-36.97	100	38	peak
2	2515.020	36.35	2.98	39.33	74.00	-34.67	200	323	peak

Mode:	BLE_500kbps	Channel:	2480
Remark:	Vertical	Test model No.:	HJC26C Ble

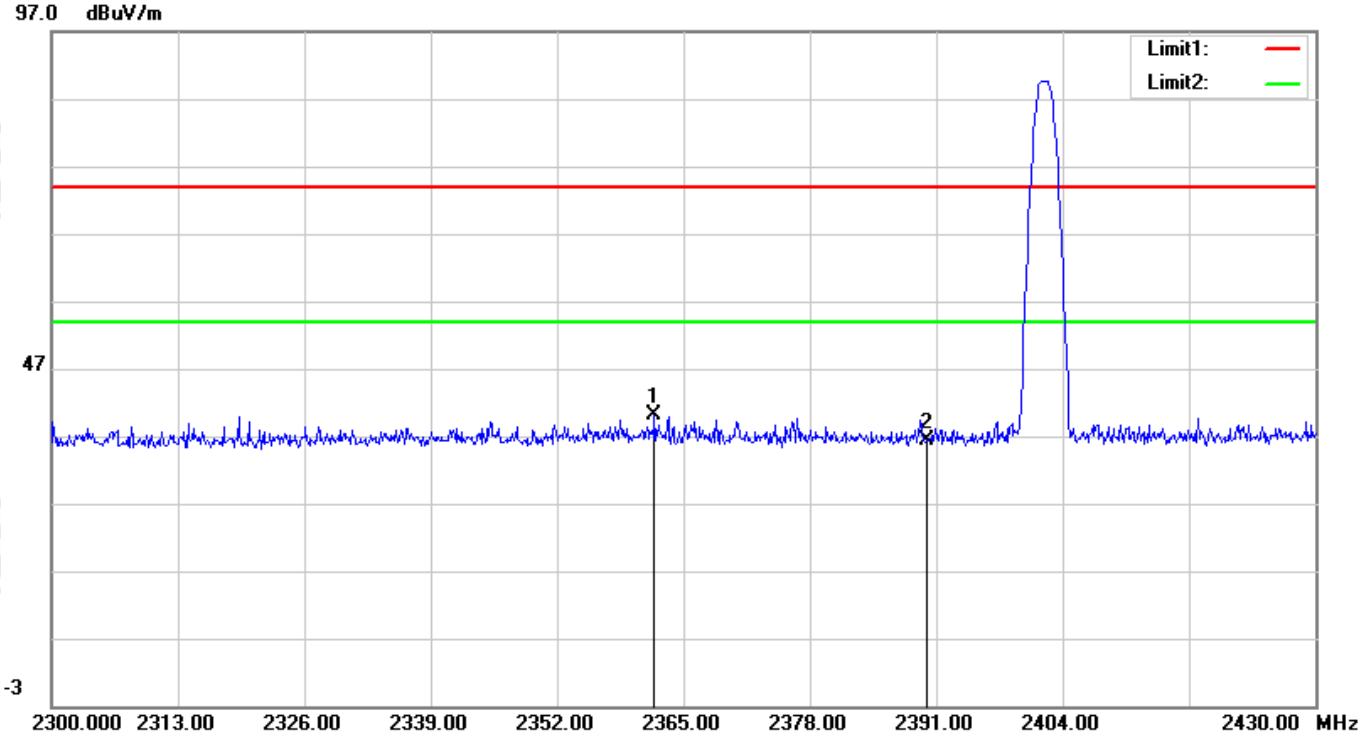
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.40	2.92	37.32	74.00	-36.68	100	331	peak
2	2507.880	36.33	2.97	39.30	74.00	-34.70	101	360	peak

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC18 Ble

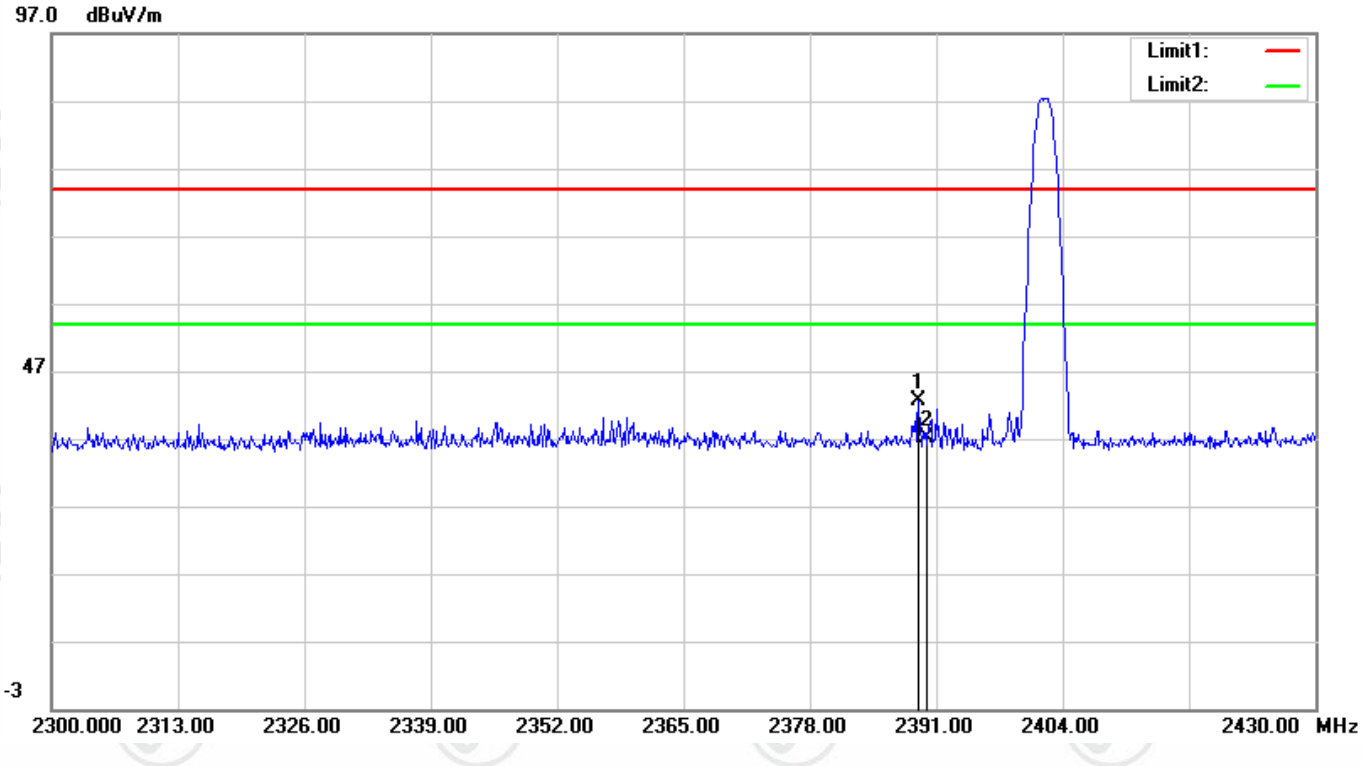
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2362.010	37.53	2.64	40.17	74.00	-33.83	200	323	peak
2	2390.000	33.59	2.71	36.30	74.00	-37.70	100	127	peak

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJC18 Ble

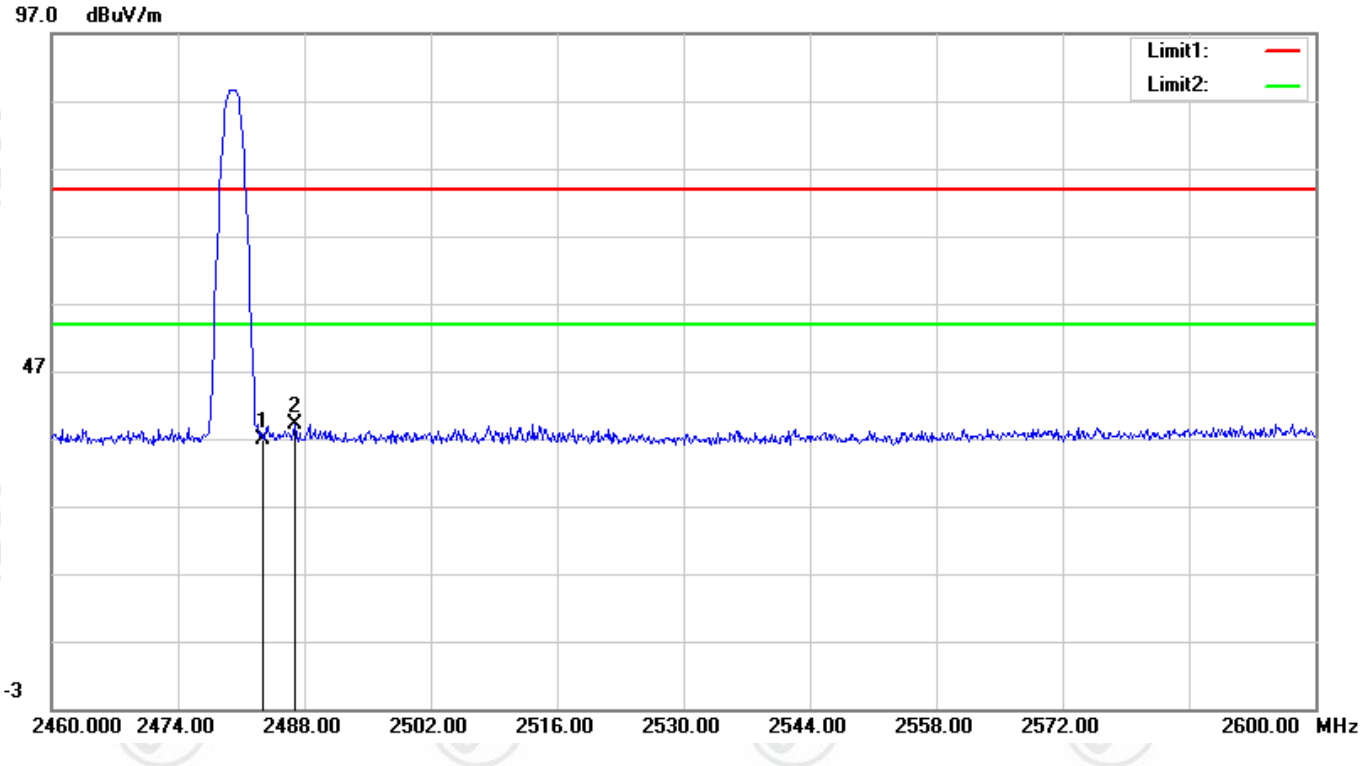
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.180	39.89	2.71	42.60	74.00	-31.40	100	338	peak
2	2390.000	34.33	2.71	37.04	74.00	-36.96	100	359	peak

Mode:	BLE_1M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC18 Ble

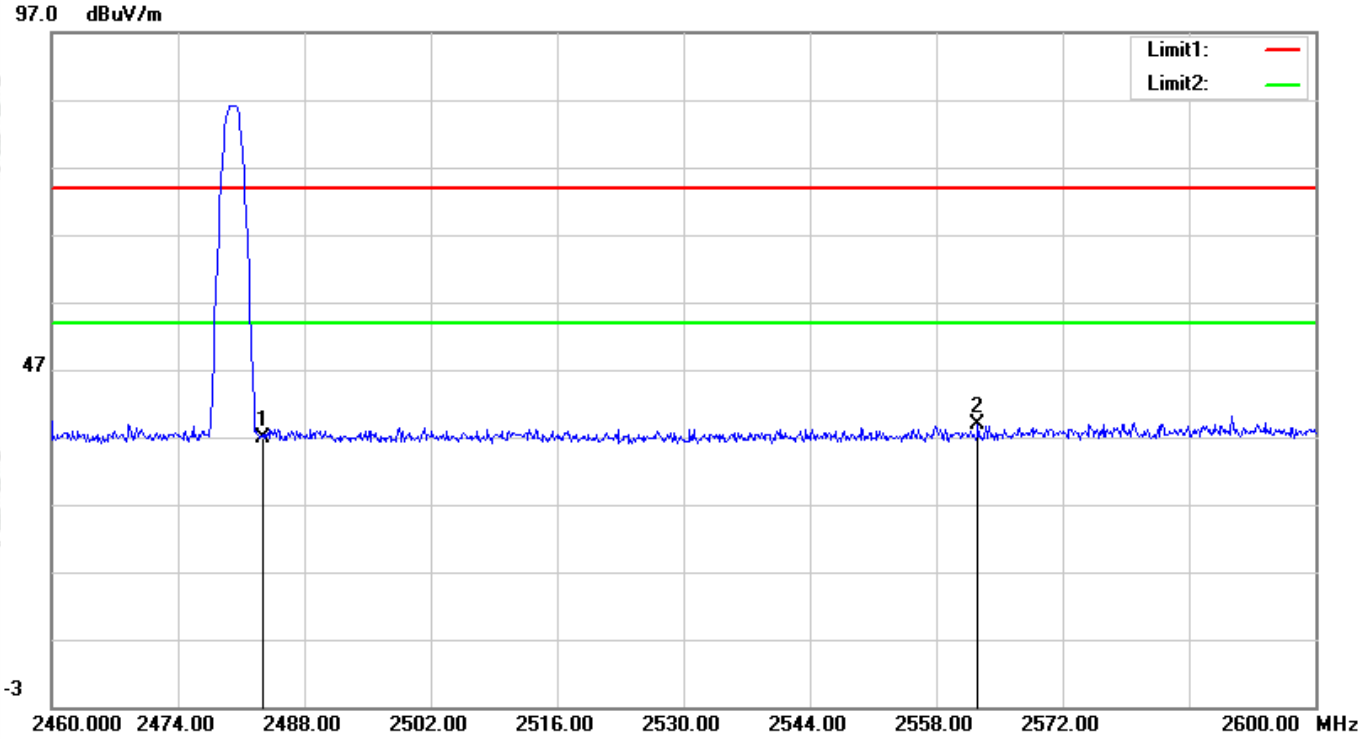
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.05	2.92	36.97	74.00	-37.03	110	0	peak
2	2486.880	36.27	2.92	39.19	74.00	-34.81	141	0	peak

Mode:	BLE_1M	Channel:	2480
Remark:	Vertical	Test model No.:	HJC18 Ble

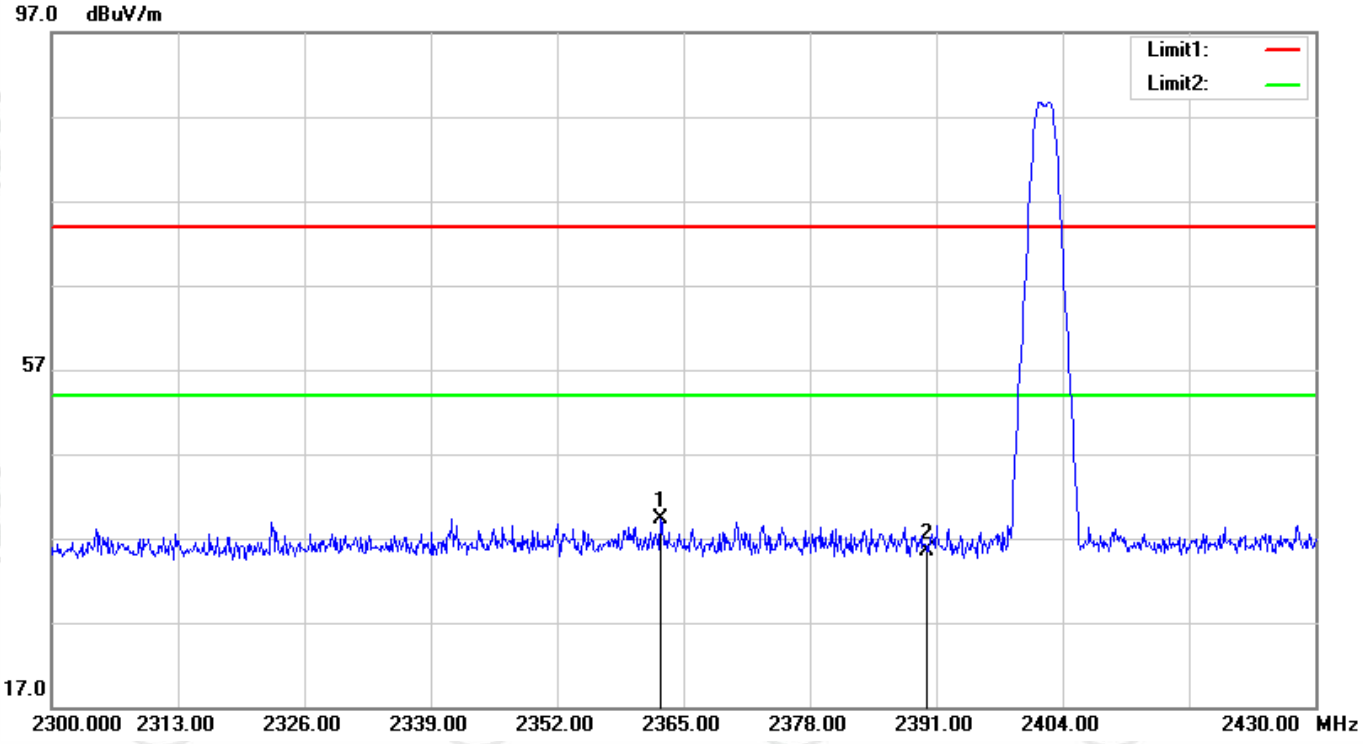
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.06	2.92	36.98	74.00	-37.02	145	0	peak
2	2562.620	35.76	3.08	38.84	74.00	-35.16	200	2	peak

Mode:	BLE_2M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC18 Ble

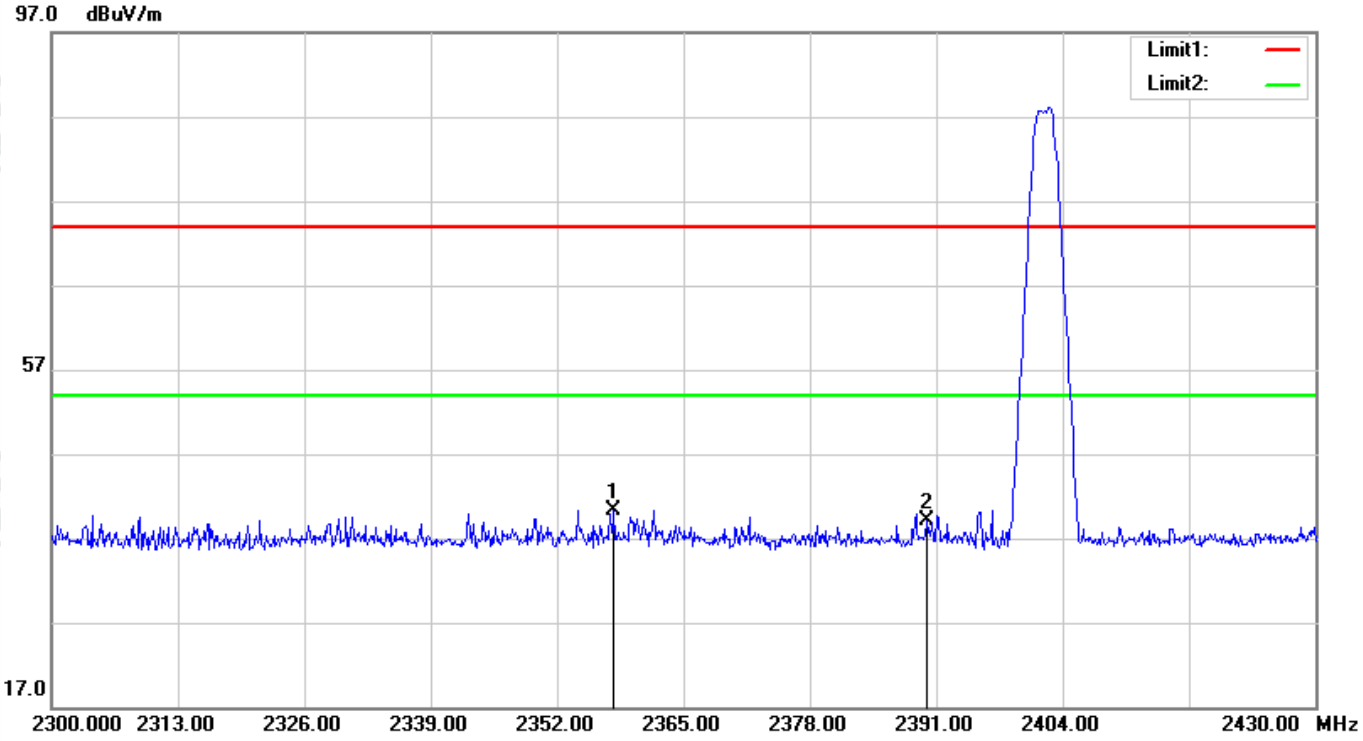
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2362.660	36.73	2.64	39.37	74.00	-34.63	100	22	peak
2	2390.000	32.85	2.71	35.56	74.00	-38.44	100	112	peak

Mode:	BLE_2M	Channel:	2402
Remark:	Vertical	Test model No.:	HJC18 Ble

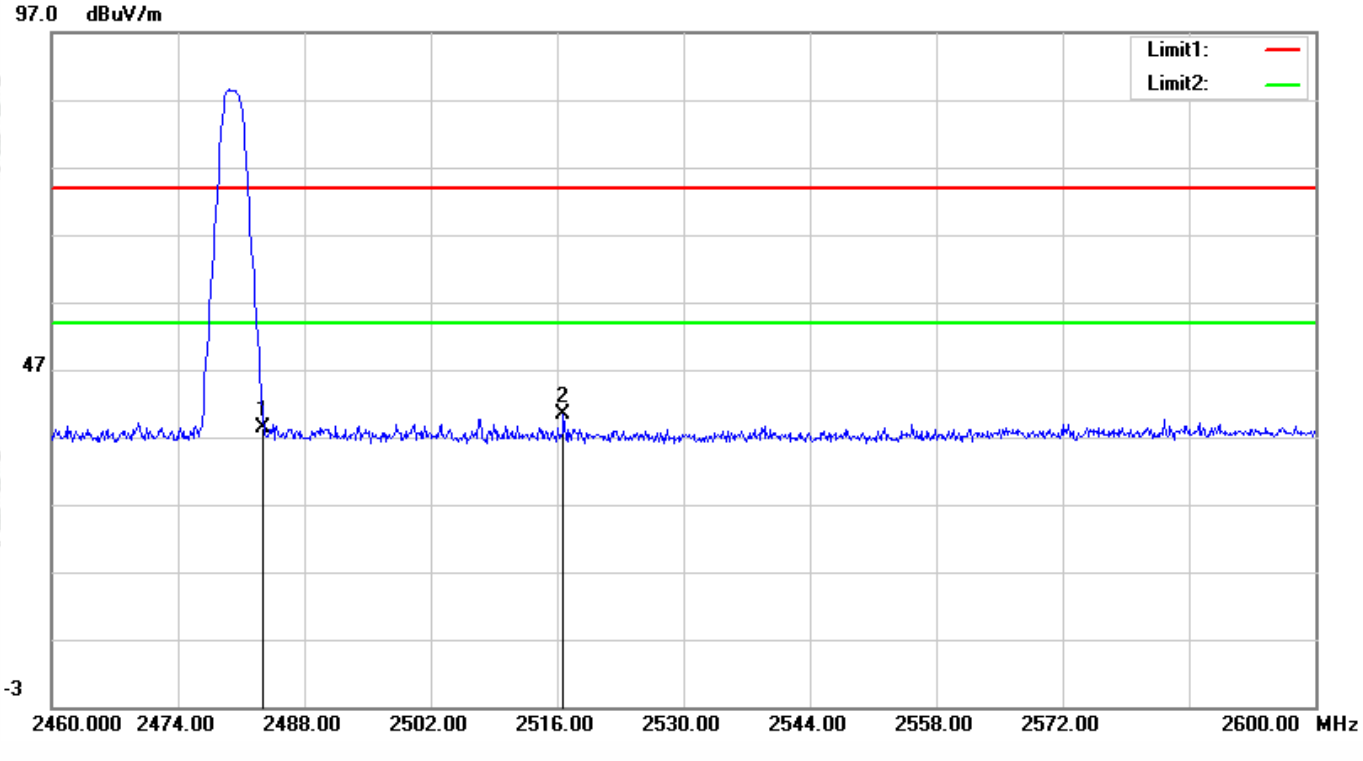
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2357.850	37.76	2.63	40.39	74.00	-33.61	200	81	peak
2	2390.000	36.34	2.71	39.05	74.00	-34.95	100	0	peak

Mode:	BLE_2M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC18 Ble

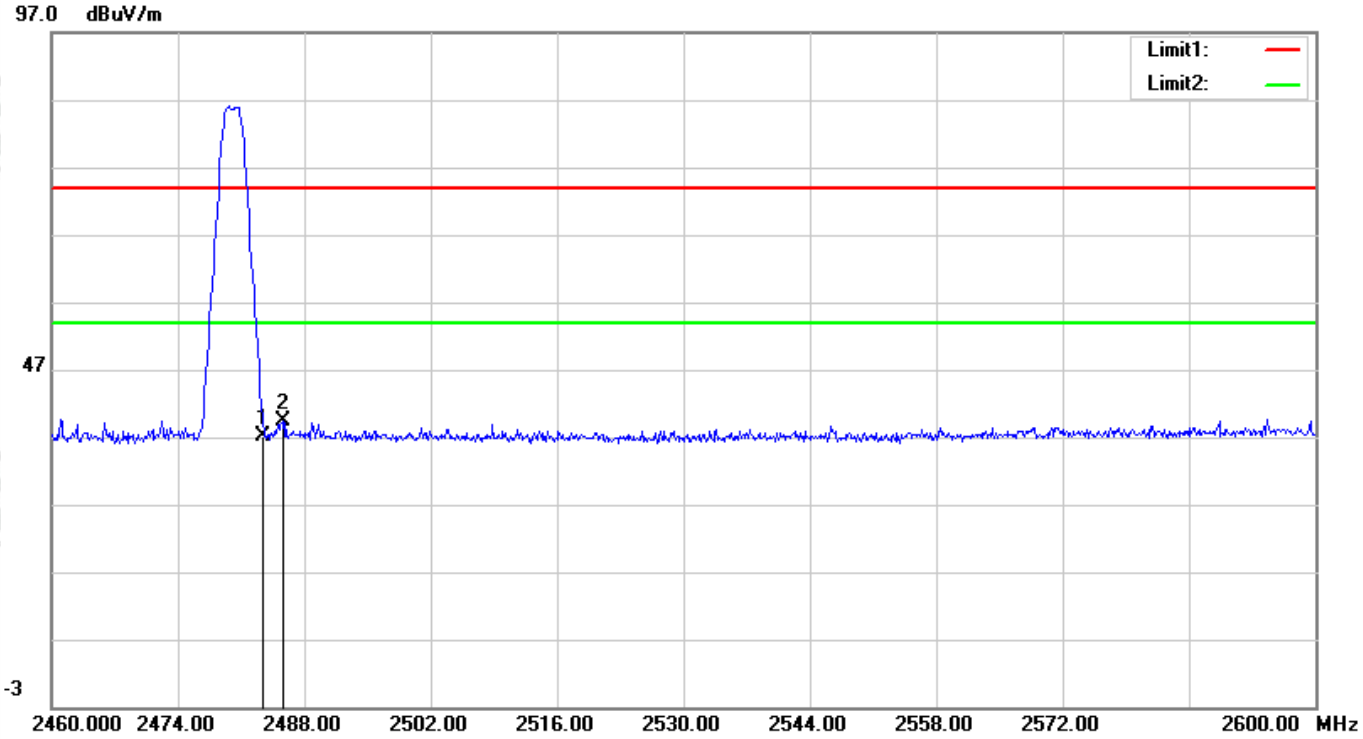
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	35.41	2.92	38.33	74.00	-35.67	148	0	peak
2	2516.700	37.44	2.99	40.43	74.00	-33.57	100	166	peak

Mode:	BLE_2M	Channel:	2480
Remark:	Vertical	Test model No.:	HJC18 Ble

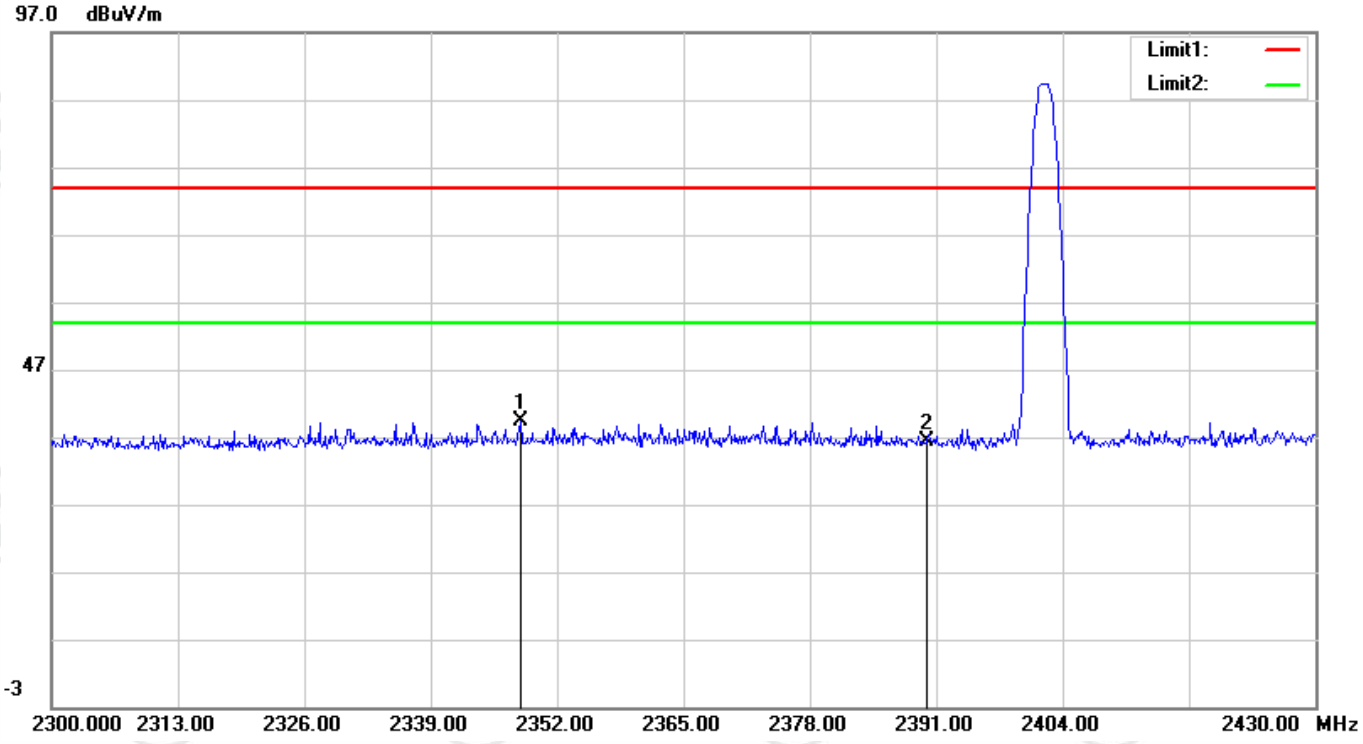
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	34.12	2.92	37.04	74.00	-36.96	100	2	peak
2	2485.620	36.50	2.92	39.42	74.00	-34.58	106	0	peak

Mode:	BLE_125kbps	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC18 Ble

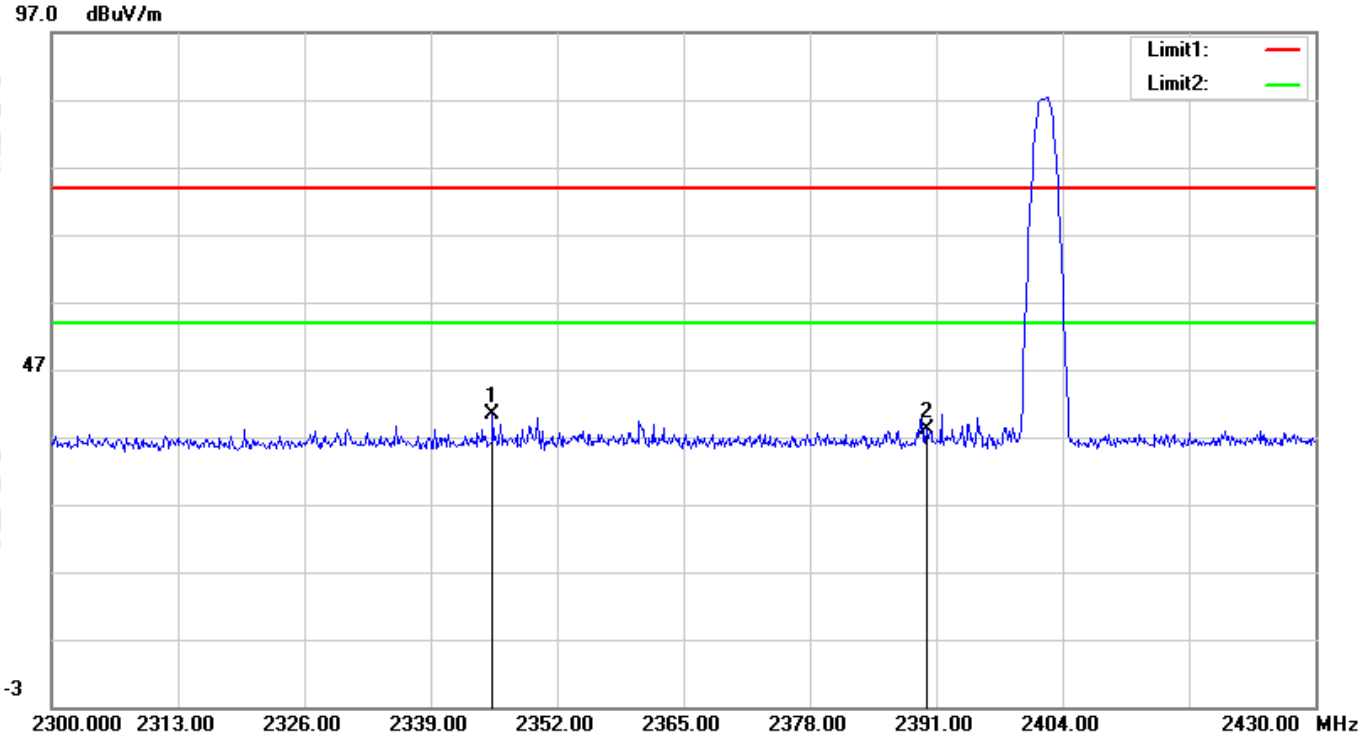
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2348.230	36.70	2.60	39.30	74.00	-34.70	200	328	peak
2	2390.000	33.72	2.71	36.43	74.00	-37.57	179	0	peak

Mode:	BLE_125kbps	Channel:	2402
Remark:	Vertical	Test model No.:	HJC18 Ble

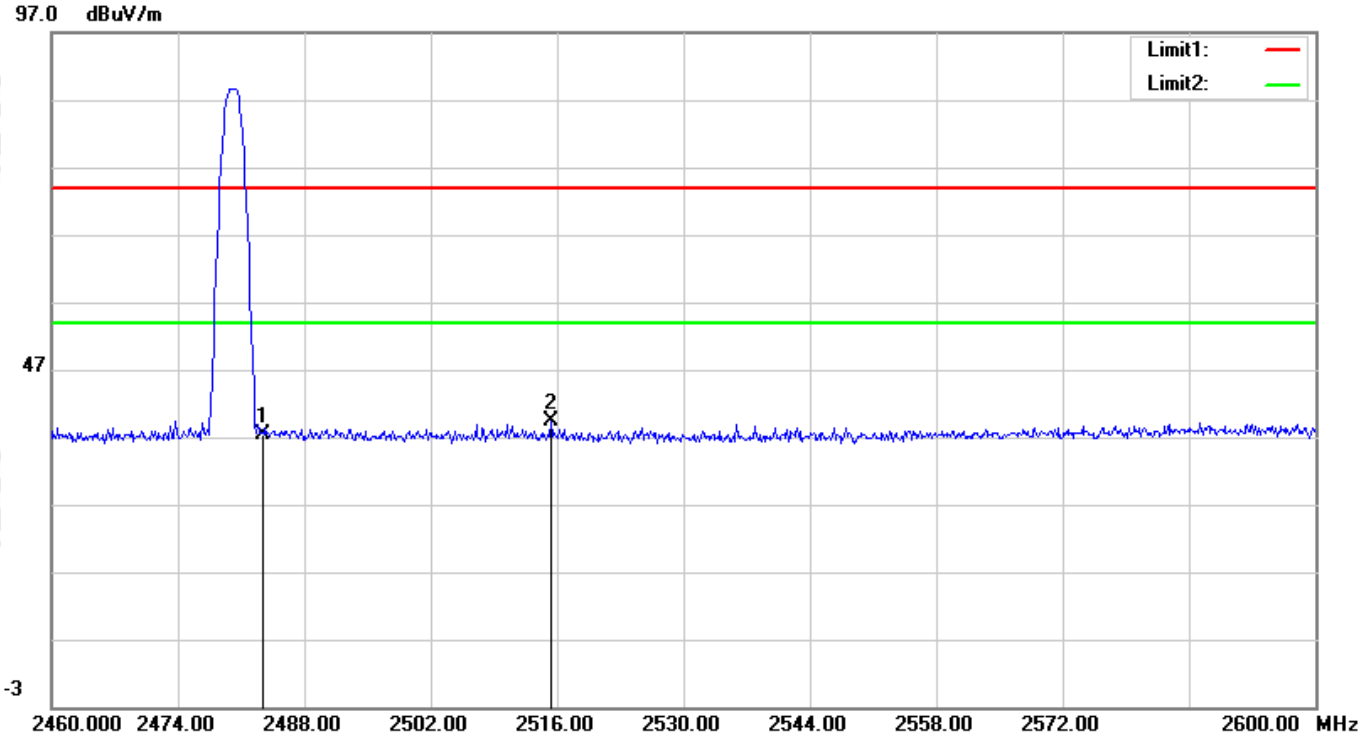
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2345.370	37.79	2.59	40.38	74.00	-33.62	200	85	peak
2	2390.000	35.43	2.71	38.14	74.00	-35.86	100	39	peak

Mode:	BLE_125kbps	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC18 Ble

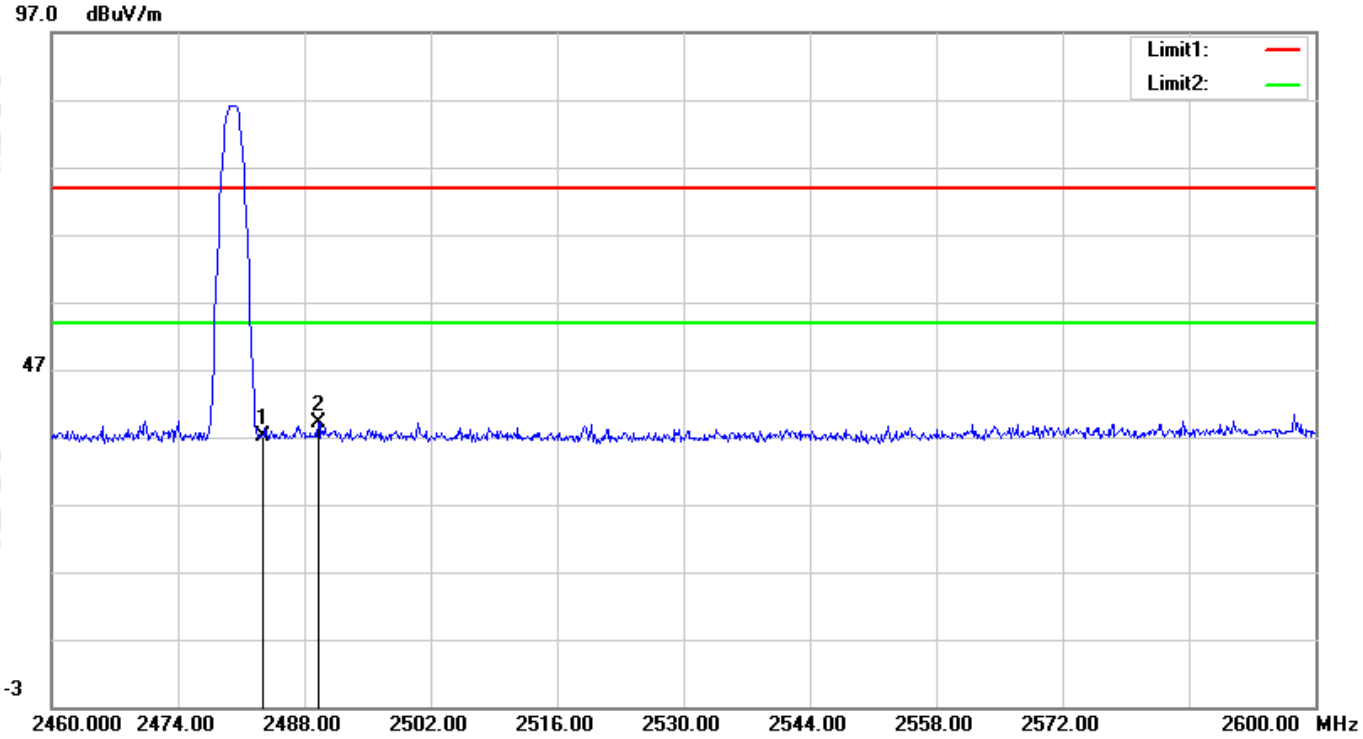
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.46	2.92	37.38	74.00	-36.62	200	9	peak
2	2515.300	36.38	2.98	39.36	74.00	-34.64	100	236	peak

Mode:	BLE_125kbps	Channel:	2480
Remark:	Vertical	Test model No.:	HJC18 Ble

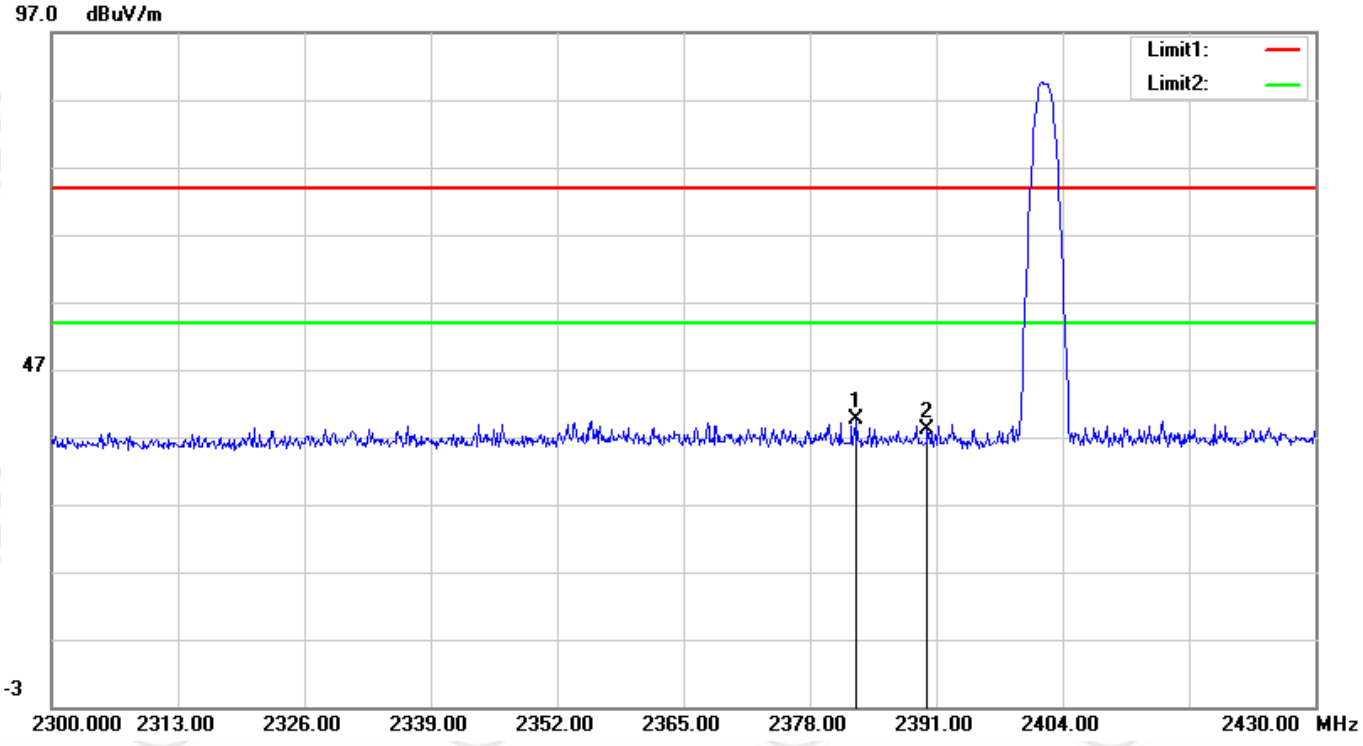
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.11	2.92	37.03	74.00	-36.97	196	0	peak
2	2489.540	36.23	2.93	39.16	74.00	-34.84	100	314	peak

Mode:	BLE_500kbps	Channel:	2402
Remark:	Horizontal	Test model No.:	HJC18 Ble

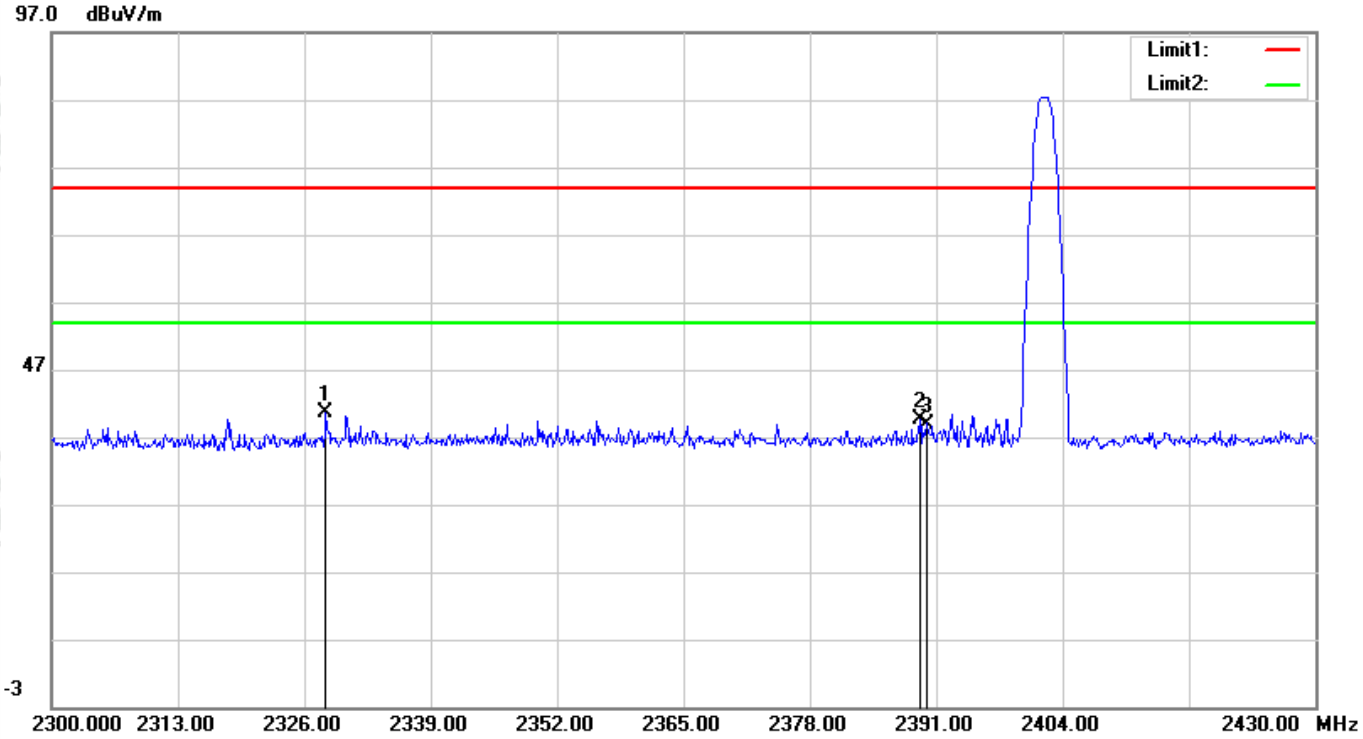
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2382.810	36.94	2.69	39.63	74.00	-34.37	100	49	peak
2	2390.000	35.46	2.71	38.17	74.00	-35.83	200	334	peak

Mode:	BLE_500kbps	Channel:	2402
Remark:	Vertical	Test model No.:	HJC18 Ble

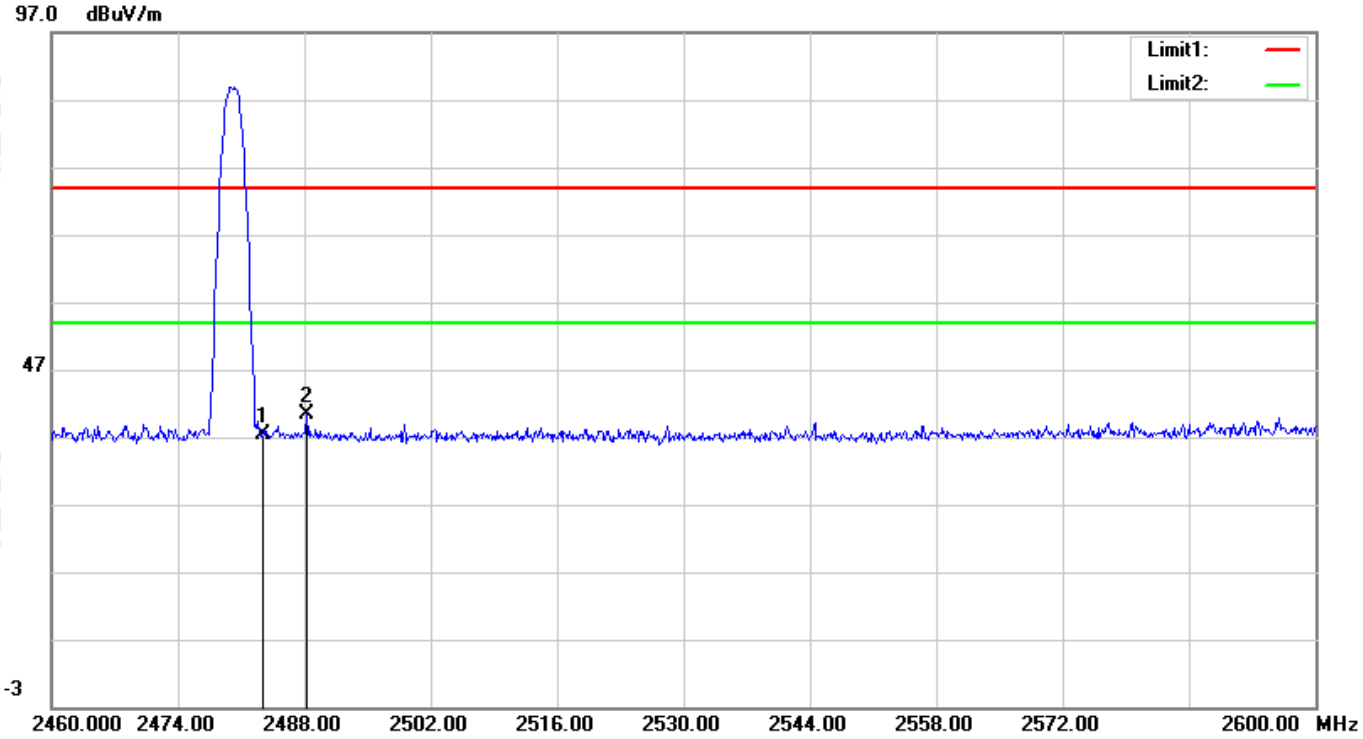
Test Graph



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2328.210	38.20	2.55	40.75	74.00	-33.25	200	64	peak
2	2389.310	36.81	2.71	39.52	74.00	-34.48	109	0	peak
3	2390.000	36.10	2.71	38.81	74.00	-35.19	152	0	peak

Mode:	BLE_500kbps	Channel:	2480
Remark:	Horizontal	Test model No.:	HJC18 Ble

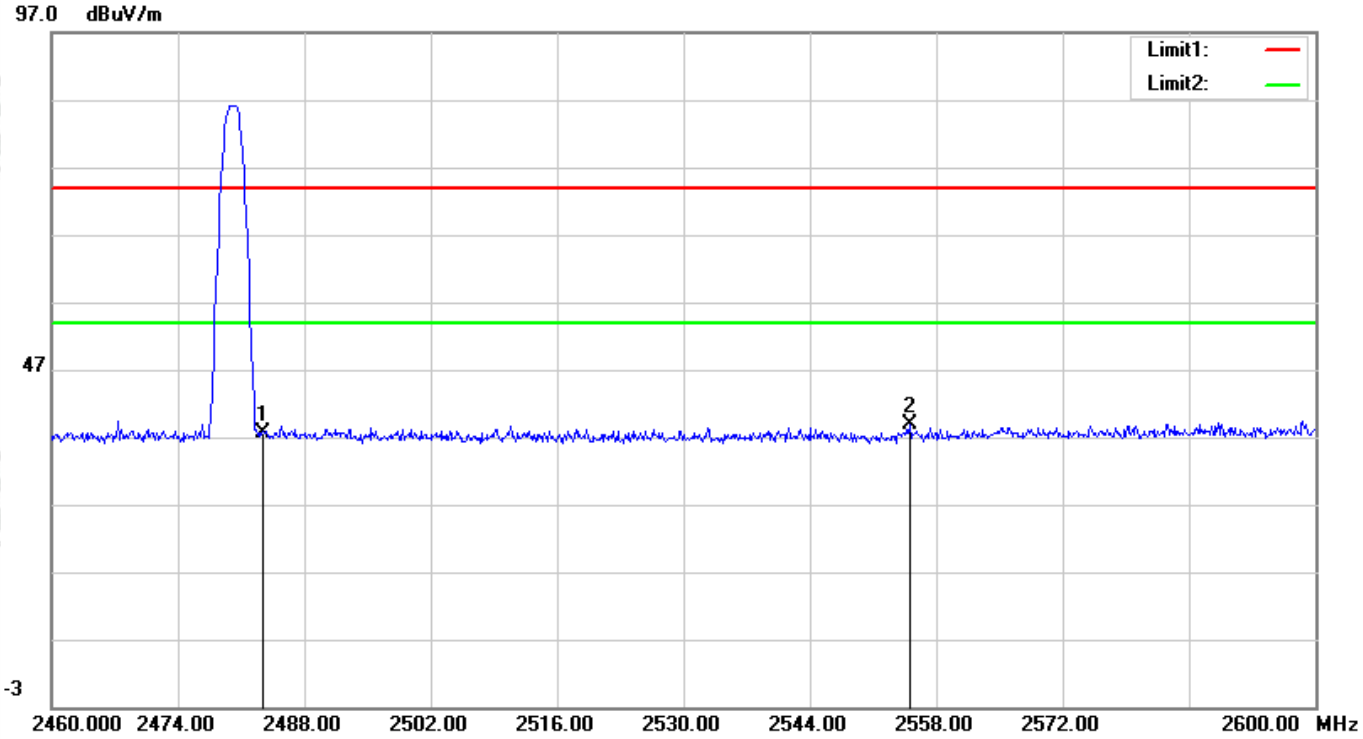
Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.41	2.92	37.33	74.00	-36.67	100	91	peak
2	2488.280	37.55	2.93	40.48	74.00	-33.52	100	236	peak

Mode:	BLE_500kbps	Channel:	2480
Remark:	Vertical	Test model No.:	HJC18 Ble

Test Graph



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	34.62	2.92	37.54	74.00	-36.46	126	0	peak
2	2555.060	35.75	3.07	38.82	74.00	-35.18	123	0	peak

Note:

1)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 20dB under any condition of modulation. So, only the peak values are measured:

2) The field strength is calculated by adding the correct Factor. The basic equation with a sample calculation is as follows:

Final Test Level = Reading +Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Appendix B): Radiated Spurious Emissions

Receiver Setup:

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

Test Procedure:

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. 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 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.

Above 1GHz test procedure as below:

a. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
b. Test the EUT in the lowest channel, the middle channel, the Highest channel
c. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
d. Repeat above procedures until all frequencies measured was complete.

Limit:

Frequency	Field strength microvolt/meter)	Limit (dBμV/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.

Radiated Spurious Emissions test Data:

Radiated Emission below 1GHz:

Mode:	BLE_2M	Channel:	2480
Test model No.:	HJC9G Ble		

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
64.9200	V	55.75	-20.07	35.68	40.00	-4.32	QP
81.4100	V	58.22	-22.91	35.31	40.00	-4.69	QP
131.8500	V	45.49	-22.48	23.01	43.50	-20.49	QP
505.3000	V	33.08	-11.47	21.61	46.00	-24.39	QP
761.3800	V	33.32	-10.00	23.32	46.00	-22.68	QP
894.2700	V	31.82	-7.48	24.34	46.00	-21.66	QP
47.4600	H	40.48	-17.67	22.81	40.00	-17.19	QP
88.2000	H	51.93	-21.12	30.81	43.50	-12.69	QP
98.8700	H	47.89	-19.11	28.78	43.50	-14.72	QP
202.6600	H	43.56	-19.69	23.87	43.50	-19.63	QP
252.1300	H	40.92	-18.46	22.46	46.00	-23.54	QP
504.3300	H	33.29	-11.45	21.84	46.00	-24.16	QP

Notes:

1) Through Pre-scan then find the BLE_2M -CH40 is the worst case mode and only the worst data was recorded.

Transmitter Emission above 1GHz:

Mode:	BLE_1M	Channel:	2402
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4808.000	40.60	9.16	49.76	74.00	-24.24	100	257	peak
2	7205.000	34.80	12.01	46.81	74.00	-27.19	100	231	peak
3	9602.000	32.63	14.87	47.50	74.00	-26.50	100	3	peak
4	14158.000	30.22	21.72	51.94	74.00	-22.06	200	144	peak
5	16912.000	28.43	25.37	53.80	74.00	-20.20	200	189	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	41.29	7.83	49.12	74.00	-24.88	200	37	peak
2	4995.000	38.55	9.59	48.14	74.00	-25.86	200	67	peak
3	7205.000	35.90	12.01	47.91	74.00	-26.09	100	330	peak
4	14804.000	29.81	22.84	52.65	74.00	-21.35	100	338	peak

Mode:	BLE_1M	Channel:	2440
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	7324.000	38.66	12.20	50.86	74.00	-23.14	100	215	peak
2	9755.000	33.72	14.75	48.47	74.00	-25.53	100	236	peak
3	14158.000	31.29	21.72	53.01	74.00	-20.99	199	360	peak
4	14821.000	30.43	22.87	53.30	74.00	-20.70	143	360	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	37.80	7.83	45.63	74.00	-28.37	200	59	peak
2	4995.000	36.40	9.59	45.99	74.00	-28.01	200	68	peak
3	7324.000	37.76	12.20	49.96	74.00	-24.04	136	360	peak
4	15416.000	30.00	22.81	52.81	74.00	-21.19	100	66	peak

Mode:	BLE_1M	Channel:	2480
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	37.55	9.51	47.06	74.00	-26.94	100	260	peak
2	7443.000	43.79	12.35	56.14	74.00	-17.86	100	216	peak
3	7443.000	22.36	12.35	34.71	54.00	-19.29	100	216	AVG
4	14872.000	29.70	22.93	52.63	74.00	-21.37	192	360	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	39.75	7.75	47.50	74.00	-26.50	200	345	peak
2	4978.000	40.19	9.55	49.74	74.00	-24.26	100	353	peak
3	7443.000	42.98	12.35	55.33	74.00	-18.67	100	331	peak
4	7443.000	21.71	12.35	34.06	54.00	-19.94	100	331	AVG
5	14362.000	30.53	22.15	52.68	74.00	-21.32	199	360	peak

Mode:	BLE_2M	Channel:	2402
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4791.000	39.70	9.12	48.82	74.00	-25.18	100	257	peak
2	7205.000	35.30	12.01	47.31	74.00	-26.69	200	27	peak
3	12016.000	33.19	17.08	50.27	74.00	-23.73	100	66	peak
4	14889.000	30.61	22.95	53.56	74.00	-20.44	100	158	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	40.45	7.75	48.20	74.00	-25.80	200	56	peak
2	4995.000	37.62	9.59	47.21	74.00	-26.79	169	360	peak
3	14464.000	30.36	22.26	52.62	74.00	-21.38	126	360	peak
4	14804.000	30.45	22.84	53.29	74.00	-20.71	100	247	peak

Mode:	BLE_2M	Channel:	2440
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4876.000	37.56	9.31	46.87	74.00	-27.13	200	261	peak
2	7324.000	41.12	12.20	53.32	74.00	-20.68	100	203	peak
3	12203.000	29.96	17.63	47.59	74.00	-26.41	200	186	peak
4	14804.000	31.16	22.84	54.00	74.00	-20.00	100	219	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	38.25	7.83	46.08	74.00	-27.92	200	18	peak
2	4995.000	39.26	9.59	48.85	74.00	-25.15	108	360	peak
3	7324.000	38.68	12.20	50.88	74.00	-23.12	100	323	peak
4	12203.000	30.49	17.63	48.12	74.00	-25.88	100	349	peak
5	15501.000	31.22	22.76	53.98	74.00	-20.02	200	211	peak

Mode:	BLE_2M	Channel:	2480
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	38.54	9.51	48.05	74.00	-25.95	200	264	peak
2	7443.000	43.55	12.35	55.90	74.00	-18.10	100	204	peak
3	7443.000	21.20	12.35	33.55	54.00	-20.45	100	204	AVG
4	14804.000	30.38	22.84	53.22	74.00	-20.78	200	296	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	39.48	7.83	47.31	74.00	-26.69	200	336	peak
2	4978.000	37.66	9.55	47.21	74.00	-26.79	100	345	peak
3	7443.000	40.22	12.35	52.57	74.00	-21.43	100	0	peak
4	14889.000	30.03	22.95	52.98	74.00	-21.02	100	237	peak

Mode:	BLE_125kbps	Channel:	2402
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1731.000	53.49	-0.18	53.31	74.00	-20.69	100	18	peak
2	4808.000	40.29	9.16	49.45	74.00	-24.55	100	258	peak
3	7205.000	36.83	12.01	48.84	74.00	-25.16	100	188	peak
4	9602.000	32.48	14.87	47.35	74.00	-26.65	100	232	peak
5	14719.000	30.28	22.63	52.91	74.00	-21.09	120	360	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	43.80	7.83	51.63	74.00	-22.37	200	11	peak
2	4995.000	37.43	9.59	47.02	74.00	-26.98	100	9	peak
3	7205.000	36.50	12.01	48.51	74.00	-25.49	100	326	peak
4	14464.000	31.52	22.26	53.78	74.00	-20.22	100	68	peak

Mode:	BLE_125kbps	Channel:	2440
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4876.000	37.36	9.31	46.67	74.00	-27.33	200	259	peak
2	7324.000	39.86	12.20	52.06	74.00	-21.94	100	23	peak
3	11523.000	40.57	17.21	57.78	74.00	-16.22	200	135	peak
4	11523.000	14.88	17.21	32.09	54.00	-21.91	200	135	AVG

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	39.24	7.83	47.07	74.00	-26.93	200	349	peak
2	4978.000	38.32	9.55	47.87	74.00	-26.13	100	70	peak
3	7324.000	41.09	12.20	53.29	74.00	-20.71	100	327	peak
4	15093.000	30.34	23.06	53.40	74.00	-20.60	200	297	peak

Mode:	BLE_125kbps	Channel:	2480
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	36.65	9.51	46.16	74.00	-27.84	100	267	peak
2	7443.000	41.64	12.35	53.99	74.00	-20.01	100	186	peak
3	15025.000	29.70	23.08	52.78	74.00	-21.22	200	301	peak
4	16997.000	27.81	25.67	53.48	74.00	-20.52	186	360	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	39.98	7.75	47.73	74.00	-26.27	100	221	peak
2	4995.000	39.30	9.59	48.89	74.00	-25.11	146	360	peak
3	7443.000	43.01	12.35	55.36	74.00	-18.64	100	321	peak
4	7443.000	20.22	12.35	32.57	54.00	-21.43	100	321	AVG
5	16011.000	29.49	23.63	53.12	74.00	-20.88	177	360	peak

Mode:	BLE_500kbps	Channel:	2402
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4791.000	37.98	9.12	47.10	74.00	-26.90	200	250	peak
2	7205.000	34.87	12.01	46.88	74.00	-27.12	100	13	peak
3	12016.000	31.93	17.08	49.01	74.00	-24.99	100	62	peak
4	14804.000	29.89	22.84	52.73	74.00	-21.27	200	302	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	40.15	7.75	47.90	74.00	-26.10	200	17	peak
2	4808.000	37.73	9.16	46.89	74.00	-27.11	100	247	peak
3	7205.000	37.50	12.01	49.51	74.00	-24.49	100	327	peak
4	14464.000	31.16	22.26	53.42	74.00	-20.58	200	345	peak
5	14821.000	30.30	22.87	53.17	74.00	-20.83	200	213	peak

Mode:	BLE_500kbps	Channel:	2440
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4876.000	38.24	9.31	47.55	74.00	-26.45	200	259	peak
2	7324.000	39.65	12.20	51.85	74.00	-22.15	100	187	peak
3	11166.000	30.95	16.79	47.74	74.00	-26.26	200	240	peak
4	14889.000	30.43	22.95	53.38	74.00	-20.62	100	88	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	40.98	7.75	48.73	74.00	-25.27	100	30	peak
2	4978.000	41.24	9.55	50.79	74.00	-23.21	100	77	peak
3	7324.000	37.91	12.20	50.11	74.00	-23.89	131	360	peak
4	14804.000	30.51	22.84	53.35	74.00	-20.65	100	101	peak

Mode:	BLE_500kbps	Channel:	2480
Test model No.:	HJC9G Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	37.44	9.51	46.95	74.00	-27.05	100	264	peak
2	7443.000	42.51	12.35	54.86	74.00	-19.14	100	213	peak
3	7443.000	20.91	12.35	33.26	54.00	-20.74	100	213	AVG
4	14464.000	30.82	22.26	53.08	74.00	-20.92	100	9	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	40.47	7.75	48.22	74.00	-25.78	200	15	peak
2	7443.000	41.94	12.35	54.29	74.00	-19.71	100	24	peak
3	7443.000	20.24	12.35	32.59	54.00	-21.41	100	24	AVG
4	14889.000	29.83	22.95	52.78	74.00	-21.22	121	360	peak

Radiated Emission below 1GHz:

Mode:	BLE_1M	Channel:	2402
Test model No.:	HJC26C Ble		

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
63.9500	V	53.40	-19.77	33.63	40.00	-6.37	QP
83.3500	V	58.37	-22.40	35.97	40.00	-4.03	QP
138.6400	V	50.85	-22.67	28.18	43.50	-15.32	QP
207.5100	V	54.57	-19.67	34.90	43.50	-8.60	QP
247.2800	V	49.15	-18.51	30.64	46.00	-15.36	QP
902.0300	V	32.87	-7.28	25.59	46.00	-20.41	QP
50.3700	H	40.51	-17.58	22.93	40.00	-17.07	QP
100.8100	H	43.71	-18.93	24.78	43.50	-18.72	QP
192.9600	H	53.91	-19.97	33.94	43.50	-9.56	QP
248.2500	H	49.99	-18.50	31.49	46.00	-14.51	QP
400.5400	H	40.14	-15.12	25.02	46.00	-20.98	QP
596.4800	H	33.95	-11.62	22.33	46.00	-23.67	QP

Notes:

1) Through Pre-scan then find the BLE_1M -CH1 is the worst case mode and only the worst data was recorded.

Transmitter Emission above 1GHz:

Mode:	BLE_1M	Channel:	2402
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4791.000	36.17	9.12	45.29	74.00	-28.71	200	102	peak
2	7205.000	37.49	12.01	49.50	74.00	-24.50	100	208	peak
3	14464.000	30.87	22.26	53.13	74.00	-20.87	100	85	peak
4	16912.000	28.01	25.37	53.38	74.00	-20.62	100	276	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	38.82	7.75	46.57	74.00	-27.43	142	360	peak
2	4978.000	37.96	9.55	47.51	74.00	-26.49	200	31	peak
3	7205.000	35.63	12.01	47.64	74.00	-26.36	200	332	peak
4	14889.000	30.16	22.95	53.11	74.00	-20.89	200	311	peak

Mode:	BLE_1M	Channel:	2440
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	7324.000	41.64	12.20	53.84	74.00	-20.16	100	216	peak
2	11438.000	29.46	17.13	46.59	74.00	-27.41	200	3	peak
3	13767.000	29.59	21.05	50.64	74.00	-23.36	200	55	peak
4	14668.000	30.45	22.49	52.94	74.00	-21.06	200	186	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	38.45	7.83	46.28	74.00	-27.72	200	18	peak
2	4978.000	38.01	9.55	47.56	74.00	-26.44	100	1	peak
3	7324.000	37.60	12.20	49.80	74.00	-24.20	100	352	peak
4	12203.000	31.82	17.63	49.45	74.00	-24.55	100	6	peak
5	14804.000	30.55	22.84	53.39	74.00	-20.61	200	359	peak

Mode:	BLE_1M	Channel:	2480
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	35.11	9.51	44.62	74.00	-29.38	200	106	peak
2	7443.000	40.74	12.35	53.09	74.00	-20.91	200	226	peak
3	14158.000	31.17	21.72	52.89	74.00	-21.11	100	40	peak
4	17014.000	28.07	25.67	53.74	74.00	-20.26	100	126	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	38.13	9.51	47.64	74.00	-26.36	100	115	peak
2	7443.000	42.64	12.35	54.99	74.00	-19.01	100	339	peak
3	7443.000	20.54	12.35	32.89	54.00	-21.11	100	339	AVG
4	17490.000	29.91	25.42	55.33	74.00	-18.67	200	281	peak
5	17490.000	8.02	25.42	33.44	54.00	-20.56	200	281	AVG

Mode:	BLE_2M	Channel:	2402
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4791.000	37.02	9.12	46.14	74.00	-27.86	200	96	peak
2	7205.000	36.01	12.01	48.02	74.00	-25.98	100	209	peak
3	11098.000	31.41	16.68	48.09	74.00	-25.91	100	51	peak
4	14889.000	30.01	22.95	52.96	74.00	-21.04	100	360	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1901.000	45.32	0.69	46.01	74.00	-27.99	100	323	peak
2	3992.000	38.21	7.83	46.04	74.00	-27.96	100	3	peak
3	4995.000	38.75	9.59	48.34	74.00	-25.66	100	85	peak
4	12016.000	33.15	17.08	50.23	74.00	-23.77	167	360	peak
5	14821.000	30.51	22.87	53.38	74.00	-20.62	200	177	peak

Mode:	BLE_2M	Channel:	2440
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4978.000	36.97	9.55	46.52	74.00	-27.48	200	75	peak
2	7324.000	38.56	12.20	50.76	74.00	-23.24	200	224	peak
3	10129.000	30.77	14.92	45.69	74.00	-28.31	100	211	peak
4	14872.000	30.31	22.93	53.24	74.00	-20.76	200	345	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	39.75	7.83	47.58	74.00	-26.42	200	18	peak
2	4978.000	38.89	9.55	48.44	74.00	-25.56	100	74	peak
3	7324.000	38.58	12.20	50.78	74.00	-23.22	100	335	peak
4	14804.000	29.97	22.84	52.81	74.00	-21.19	100	17	peak

Mode:	BLE_2M	Channel:	2480
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	35.55	9.51	45.06	74.00	-28.94	200	99	peak
2	7443.000	41.60	12.35	53.95	74.00	-20.05	200	219	peak
3	15739.000	29.92	23.03	52.95	74.00	-21.05	200	70	peak
4	17218.000	27.83	25.49	53.32	74.00	-20.68	100	0	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	37.28	7.75	45.03	74.00	-28.97	100	7	peak
2	4978.000	39.75	9.55	49.30	74.00	-24.70	112	360	peak
3	7443.000	42.99	12.35	55.34	74.00	-18.66	100	343	peak
4	7443.000	20.87	12.35	33.22	54.00	-20.78	100	343	AVG
5	16997.000	27.96	25.67	53.63	74.00	-20.37	100	359	peak

Mode:	BLE_125kbps	Channel:	2402
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4791.000	36.96	9.12	46.08	74.00	-27.92	100	93	peak
2	7205.000	35.03	12.01	47.04	74.00	-26.96	200	207	peak
3	14651.000	30.18	22.45	52.63	74.00	-21.37	100	178	peak
4	16572.000	29.91	24.23	54.14	74.00	-19.86	200	167	peak
5	16572.000	7.02	24.23	31.25	54.00	-22.75	200	167	AVG

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	38.84	7.83	46.67	74.00	-27.33	100	39	peak
2	4978.000	38.20	9.55	47.75	74.00	-26.25	112	360	peak
3	12016.000	34.04	17.08	51.12	74.00	-22.88	145	360	peak
4	14889.000	29.86	22.95	52.81	74.00	-21.19	200	51	peak

Mode:	BLE_125kbps	Channel:	2440
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4995.000	36.27	9.59	45.86	74.00	-28.14	100	71	peak
2	7324.000	39.12	12.20	51.32	74.00	-22.68	200	218	peak
3	14821.000	30.09	22.87	52.96	74.00	-21.04	200	309	peak
4	16997.000	28.23	25.67	53.90	74.00	-20.10	200	112	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	39.83	7.83	47.66	74.00	-26.34	200	20	peak
2	4978.000	38.52	9.55	48.07	74.00	-25.93	100	195	peak
3	7324.000	39.89	12.20	52.09	74.00	-21.91	100	344	peak
4	16572.000	29.03	24.23	53.26	74.00	-20.74	200	8	peak

Mode:	BLE_125kbps	Channel:	2480
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1782.000	49.35	0.23	49.58	74.00	-24.42	100	202	peak
2	7443.000	42.62	12.35	54.97	74.00	-19.03	100	233	peak
3	7443.000	20.45	12.35	32.80	54.00	-21.20	100	233	AVG
4	14804.000	29.91	22.84	52.75	74.00	-21.25	100	245	peak
5	16997.000	28.04	25.67	53.71	74.00	-20.29	200	18	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1884.000	44.35	0.63	44.98	74.00	-29.02	100	359	peak
2	4995.000	39.35	9.59	48.94	74.00	-25.06	156	360	peak
3	7443.000	40.46	12.35	52.81	74.00	-21.19	167	360	peak
4	15807.000	30.34	23.19	53.53	74.00	-20.47	200	101	peak

Mode:	BLE_500kbps	Channel:	2402
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4791.000	36.78	9.12	45.90	74.00	-28.10	200	121	peak
2	7205.000	35.46	12.01	47.47	74.00	-26.53	100	209	peak
3	10214.000	32.01	15.15	47.16	74.00	-26.84	100	129	peak
4	14804.000	29.67	22.84	52.51	74.00	-21.49	200	360	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1901.000	45.77	0.69	46.46	74.00	-27.54	100	15	peak
2	3975.000	38.86	7.75	46.61	74.00	-27.39	100	28	peak
3	4978.000	38.58	9.55	48.13	74.00	-25.87	100	201	peak
4	9602.000	33.88	14.87	48.75	74.00	-25.25	200	34	peak
5	11659.000	32.61	17.20	49.81	74.00	-24.19	100	143	peak

Mode:	BLE_500kbps	Channel:	2440
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4876.000	35.49	9.31	44.80	74.00	-29.20	200	31	peak
2	7324.000	39.12	12.20	51.32	74.00	-22.68	100	231	peak
3	11166.000	31.20	16.79	47.99	74.00	-26.01	200	256	peak
4	14651.000	30.51	22.45	52.96	74.00	-21.04	100	2	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	43.74	7.83	51.57	74.00	-22.43	200	18	peak
2	4995.000	39.35	9.59	48.94	74.00	-25.06	100	79	peak
3	7324.000	38.12	12.20	50.32	74.00	-23.68	200	297	peak
4	14600.000	30.69	22.31	53.00	74.00	-21.00	200	244	peak

Mode:	BLE_500kbps	Channel:	2480
Test model No.:	HJC26C Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	34.29	9.51	43.80	74.00	-30.20	100	101	peak
2	7443.000	42.94	12.35	55.29	74.00	-18.71	100	59	peak
3	7443.000	20.94	12.35	33.29	54.00	-20.71	100	59	AVG
4	11098.000	30.63	16.68	47.31	74.00	-26.69	176	360	peak
5	13988.000	31.02	21.49	52.51	74.00	-21.49	100	315	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2445.000	40.65	2.83	43.48	74.00	-30.52	100	342	peak
2	3975.000	40.00	7.75	47.75	74.00	-26.25	200	15	peak
3	4978.000	38.63	9.55	48.18	74.00	-25.82	122	360	peak
4	7443.000	40.20	12.35	52.55	74.00	-21.45	200	295	peak
5	14889.000	30.19	22.95	53.14	74.00	-20.86	144	360	peak

Radiated Emission below 1GHz:

Mode:	BLE_1M	Channel:	2402
Test model No.:	HJC18 Ble		

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
63.9500	V	48.18	-19.77	28.41	40.00	-11.59	QP
85.2900	V	53.36	-21.88	31.48	40.00	-8.52	QP
100.8100	V	45.37	-18.93	26.44	43.50	-17.06	QP
135.7300	V	42.72	-22.59	20.13	43.50	-23.37	QP
224.0000	V	35.76	-19.40	16.36	46.00	-29.64	QP
509.1800	V	33.30	-11.59	21.71	46.00	-24.29	QP
50.3700	H	39.46	-17.58	21.88	40.00	-18.12	QP
88.2000	H	43.98	-21.12	22.86	43.50	-20.64	QP
109.5400	H	39.57	-19.09	20.48	43.50	-23.02	QP
227.8800	H	40.94	-19.20	21.74	46.00	-24.26	QP
503.3600	H	32.80	-11.42	21.38	46.00	-24.62	QP
826.3700	H	33.51	-9.51	24.00	46.00	-22.00	QP

Notes:

1) Through Pre-scan then find the BLE_1M -CH1 is the worst case mode and only the worst data was recorded.

Transmitter Emission above 1GHz:

Mode:	BLE_1M	Channel:	2402
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4808.000	39.24	9.16	48.40	74.00	-25.60	200	237	peak
2	7205.000	36.61	12.01	48.62	74.00	-25.38	200	294	peak
3	12016.000	31.02	17.08	48.10	74.00	-25.90	100	177	peak
4	14889.000	30.41	22.95	53.36	74.00	-20.64	100	120	peak
5	16929.000	28.05	25.43	53.48	74.00	-20.52	200	353	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	40.41	7.75	48.16	74.00	-25.84	200	25	peak
2	4995.000	39.29	9.59	48.88	74.00	-25.12	199	0	peak
3	14277.000	30.33	21.96	52.29	74.00	-21.71	100	273	peak
4	16895.000	28.25	25.31	53.56	74.00	-20.44	200	6	peak

Mode:	BLE_1M	Channel:	2440
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	52.22	0.09	52.31	74.00	-21.69	100	357	peak
2	7324.000	41.29	12.20	53.49	74.00	-20.51	100	304	peak
3	14804.000	29.70	22.84	52.54	74.00	-21.46	100	18	peak
4	16980.000	27.74	25.61	53.35	74.00	-20.65	100	189	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	52.21	0.09	52.30	74.00	-21.70	134	360	peak
2	3975.000	42.65	7.75	50.40	74.00	-23.60	200	335	peak
3	7324.000	38.19	12.20	50.39	74.00	-23.61	200	345	peak
4	16929.000	28.65	25.43	54.08	74.00	-19.92	200	167	peak
5	16929.000	8.25	25.43	33.68	54.00	-20.32	200	167	AVG

Mode:	BLE_1M	Channel:	2480
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1612.000	49.89	-1.13	48.76	74.00	-25.24	200	110	peak
2	4961.000	37.67	9.51	47.18	74.00	-26.82	200	0	peak
3	7443.000	44.71	12.35	57.06	74.00	-16.94	100	287	peak
4	7443.000	21.37	12.35	33.72	54.00	-20.28	100	287	AVG
5	14889.000	30.62	22.95	53.57	74.00	-20.43	100	304	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	40.42	7.75	48.17	74.00	-25.83	118	0	peak
2	4995.000	37.99	9.59	47.58	74.00	-26.42	100	164	peak
3	7443.000	41.38	12.35	53.73	74.00	-20.27	200	344	peak
4	16640.000	29.31	24.41	53.72	74.00	-20.28	181	0	peak

Mode:	BLE_2M	Channel:	2402
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3975.000	38.03	7.75	45.78	74.00	-28.22	200	55	peak
2	4791.000	40.68	9.12	49.80	74.00	-24.20	200	243	peak
3	7205.000	37.97	12.01	49.98	74.00	-24.02	200	293	peak
4	17014.000	28.14	25.67	53.81	74.00	-20.19	100	304	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	54.17	0.09	54.26	74.00	-19.74	100	41	peak
2	1765.000	33.78	0.09	33.87	54.00	-20.13	100	41	AVG
3	4978.000	40.19	9.55	49.74	74.00	-24.26	159	360	peak
4	6967.000	37.10	11.65	48.75	74.00	-25.25	100	28	peak
5	16997.000	27.94	25.67	53.61	74.00	-20.39	100	212	peak

Mode:	BLE_2M	Channel:	2440
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	49.66	0.09	49.75	74.00	-24.25	100	360	peak
2	4876.000	38.02	9.31	47.33	74.00	-26.67	200	349	peak
3	7324.000	41.16	12.20	53.36	74.00	-20.64	200	283	peak
4	17830.000	27.55	26.57	54.12	74.00	-19.88	200	96	peak
5	17830.000	5.77	26.57	32.34	54.00	-21.66	200	96	AVG

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	52.04	0.09	52.13	74.00	-21.87	100	102	peak
2	3975.000	41.57	7.75	49.32	74.00	-24.68	100	219	peak
3	7324.000	39.91	12.20	52.11	74.00	-21.89	100	64	peak
4	14464.000	31.01	22.26	53.27	74.00	-20.73	100	44	peak
5	17014.000	27.67	25.67	53.34	74.00	-20.66	121	360	peak

Mode:	BLE_2M	Channel:	2480
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	38.69	9.51	48.20	74.00	-25.80	151	0	peak
2	7443.000	44.30	12.35	56.65	74.00	-17.35	100	299	peak
3	7443.000	20.30	12.35	32.65	54.00	-21.35	100	299	AVG
4	9925.000	33.90	14.61	48.51	74.00	-25.49	200	235	peak
5	16997.000	28.30	25.67	53.97	74.00	-20.03	200	193	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3992.000	38.92	7.83	46.75	74.00	-27.25	146	0	peak
2	4995.000	39.28	9.59	48.87	74.00	-25.13	100	124	peak
3	7443.000	42.88	12.35	55.23	74.00	-18.77	200	284	peak
4	7443.000	20.81	12.35	33.16	54.00	-20.84	200	284	AVG
5	13971.000	30.99	21.46	52.45	74.00	-21.55	132	0	peak
6	17014.000	27.45	25.67	53.12	74.00	-20.88	100	185	peak

Mode:	BLE_125kbps	Channel:	2402
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4791.000	39.06	9.12	48.18	74.00	-25.82	200	345	peak
2	7205.000	38.23	12.01	50.24	74.00	-23.76	100	294	peak
3	14889.000	29.70	22.95	52.65	74.00	-21.35	200	0	peak
4	16912.000	28.20	25.37	53.57	74.00	-20.43	100	0	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	44.35	0.09	44.44	74.00	-29.56	113	0	peak
2	3992.000	39.01	7.83	46.84	74.00	-27.16	150	0	peak
3	4978.000	41.49	9.55	51.04	74.00	-22.96	137	0	peak
4	14872.000	29.73	22.93	52.66	74.00	-21.34	200	112	peak
5	15994.000	29.52	23.62	53.14	74.00	-20.86	181	0	peak

Mode:	BLE_125kbps	Channel:	2440
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	52.24	0.09	52.33	74.00	-21.67	200	270	peak
2	7443.000	45.51	12.35	57.86	74.00	-16.14	100	296	peak
3	7443.000	21.38	12.35	33.73	54.00	-20.27	100	296	AVG
4	14464.000	31.21	22.26	53.47	74.00	-20.53	100	358	peak
5	15994.000	29.64	23.62	53.26	74.00	-20.74	200	50	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2054.000	49.87	1.32	51.19	74.00	-22.81	200	295	peak
2	4995.000	40.02	9.59	49.61	74.00	-24.39	199	360	peak
3	7443.000	43.67	12.35	56.02	74.00	-17.98	100	67	peak
4	7443.000	21.06	12.35	33.41	54.00	-20.59	100	67	AVG
5	14804.000	30.90	22.84	53.74	74.00	-20.26	200	15	peak

Mode:	BLE_125kbps	Channel:	2480
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4961.000	37.81	9.51	47.32	74.00	-26.68	100	238	peak
2	7443.000	44.19	12.35	56.54	74.00	-17.46	100	291	peak
3	7443.000	21.05	12.35	33.40	54.00	-20.60	100	291	AVG
4	14889.000	29.92	22.95	52.87	74.00	-21.13	200	326	peak
5	17014.000	28.09	25.67	53.76	74.00	-20.24	168	360	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3159.000	51.43	5.15	56.58	74.00	-17.42	100	191	peak
2	3159.000	23.97	5.15	29.12	54.00	-24.88	100	191	AVG
3	7443.000	44.36	12.35	56.71	74.00	-17.29	100	60	peak
4	7443.000	20.38	12.35	32.73	54.00	-21.27	100	60	AVG
5	14889.000	31.04	22.95	53.99	74.00	-20.01	118	0	peak
6	16810.000	29.18	25.02	54.20	74.00	-19.80	117	0	peak
7	16810.000	8.97	25.02	33.99	54.00	-20.01	117	0	AVG

Mode:	BLE_500kbps	Channel:	2402
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	45.28	0.09	45.37	74.00	-28.63	100	225	peak
2	4791.000	39.24	9.12	48.36	74.00	-25.64	200	200	peak
3	14804.000	29.79	22.84	52.63	74.00	-21.37	200	33	peak
4	16997.000	28.38	25.67	54.05	74.00	-19.95	100	125	peak
5	16997.000	6.22	25.67	31.89	54.00	-22.11	100	125	AVG

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	50.59	0.09	50.68	74.00	-23.32	132	0	peak
2	4978.000	42.32	9.55	51.87	74.00	-22.13	100	75	peak
3	11659.000	33.05	17.20	50.25	74.00	-23.75	100	176	peak
4	16283.000	29.90	23.82	53.72	74.00	-20.28	200	351	peak

Mode:	BLE_500kbps	Channel:	2440
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	46.06	0.09	46.15	74.00	-27.85	100	4	peak
2	4876.000	36.93	9.31	46.24	74.00	-27.76	200	252	peak
3	7324.000	39.72	12.20	51.92	74.00	-22.08	200	299	peak
4	17065.000	27.76	25.62	53.38	74.00	-20.62	200	243	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2020.000	49.82	1.12	50.94	74.00	-23.06	200	319	peak
2	7443.000	43.96	12.35	56.31	74.00	-17.69	100	64	peak
3	7443.000	20.75	12.35	33.10	54.00	-20.90	100	64	AVG
4	14889.000	29.89	22.95	52.84	74.00	-21.16	100	292	peak
5	17133.000	28.28	25.56	53.84	74.00	-20.16	200	255	peak

Mode:	BLE_500kbps	Channel:	2480
Test model No.:	HJC18 Ble		

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2666.000	48.77	3.53	52.30	74.00	-21.70	100	301	peak
2	7443.000	44.15	12.35	56.50	74.00	-17.50	200	304	peak
3	7443.000	21.33	12.35	33.68	54.00	-20.32	200	304	AVG
4	9925.000	34.13	14.61	48.74	74.00	-25.26	100	245	peak
5	17014.000	28.09	25.67	53.76	74.00	-20.24	100	106	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1765.000	45.53	0.09	45.62	74.00	-28.38	200	188	peak
2	6423.000	40.09	10.92	51.01	74.00	-22.99	200	84	peak
3	7443.000	41.94	12.35	54.29	74.00	-19.71	100	68	peak
4	7443.000	20.88	12.35	33.23	54.00	-20.77	100	68	AVG
5	11540.000	39.70	17.22	56.92	74.00	-17.08	200	27	peak
6	11540.000	15.87	17.22	33.09	54.00	-20.91	200	27	AVG

Note:

1)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 values are measured:

2) The field strength is calculated by adding the correct Factor. The basic equation with a sample calculation is as follows:

Final Test Level = Reading +Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.