

TEST REPORT

Product : Single mode Bluetooth(5.0) Module
Trade mark : Richmat
Model/Type reference : HJ8258
Serial Model : /
Report Number : EED32O804093
FCC ID : 2AJJGHJ8258
Date of Issue : May 05, 2022

Test Standards	Result
<input checked="" type="checkbox"/> 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

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May 05, 2022



Check No.:1043230322

Modification Record

No.	Last Report No.	Modification Description
1	EED32O804093	First report

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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

Remark:The product:Handset,model No.:HJH55 Ble,HJH37 Ble,HJH129 Ble,HJH129B Ble HJH13D Ble, HJSR03 Ble,HJSR05 Ble,HJH163 Ble.

They use the same Bluetooth module,but their circuit design,layout,component usage,internal wiring and External decoration are different.

2. Test Requirement

2.1. Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

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:	DC 3.3V
Sample Received Date:	Apr. 21, 2022
Sample Tested Date:	Apr. 21, 2022 to Apr. 28, 2022

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:	Portable production
Test Software of EUT:	EMI_Tool (manufacturer declare)
Antenna Type:	PCB Antenna

Antenna Gain:	5.3dBi
Test Voltage:	DC 3.3V

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.
Handset	Richmat	Model Name.:HJH55 Ble,HJH37 Ble,HJH129 Ble,HJH129B Ble HJH13D Ble,HJSR03 Ble,HJSR05 Ble,HJH163 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
Netbook	DELL	Latitude 3490	FCC&CE	CTI

3.6. 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

3.7. Deviation from Standards

None.

3.8. Abnormalities from Standard Conditions

None.

3.9. Other Information Requested by the Customer

None.

3.10. 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%

4. 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	---	05/24/2019	05/23/2022
Receiver	R&S	ESCI7	100938-003	10/14/2021	10/13/2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/23/2019	05/22/2022
Multi device Controller	matureo	NCD/070/10711112	---	---	---
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/23/2021	06/22/2022

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023
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	05-20-2021	05-19-2022
Preamplifier	EMCI	EMC001330	980563	04-15-2021 04-13-2022	04-14-2022 04-12-2023
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021 02-21-2022	04-15-2022 02-20-2023
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	---	---

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)

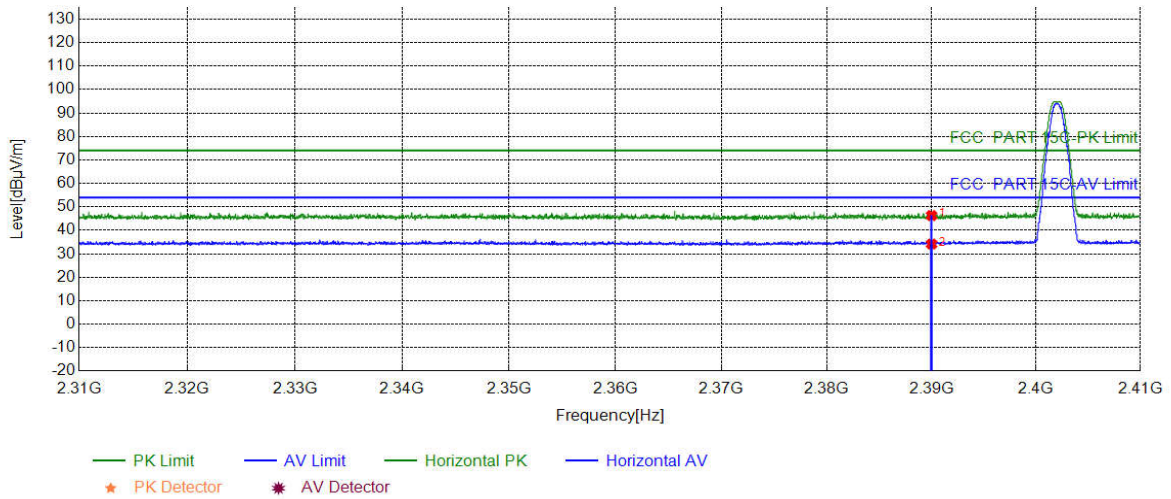
Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120kHz</td> <td>300kHz</td> <td>Quasi-peak</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>1/T</td> <td>Average</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	Above 1GHz	Peak	1MHz	3MHz	Peak	Peak	1MHz	1/T	Average	
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:	<p>Below 1GHz test procedure as below:</p> <ol style="list-style-type: none"> 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 <p>Above 1GHz test procedure as below:</p> <ol style="list-style-type: none"> 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). Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. 																				
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBμV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dB μ V/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
Frequency	Limit (dB μ V/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																			

During the test, the Restricted bands from above 1G was performed in all modes, only the worst case of GFSK 1M,2M was recorded in the report.

Test plot as follows:

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH55 Ble

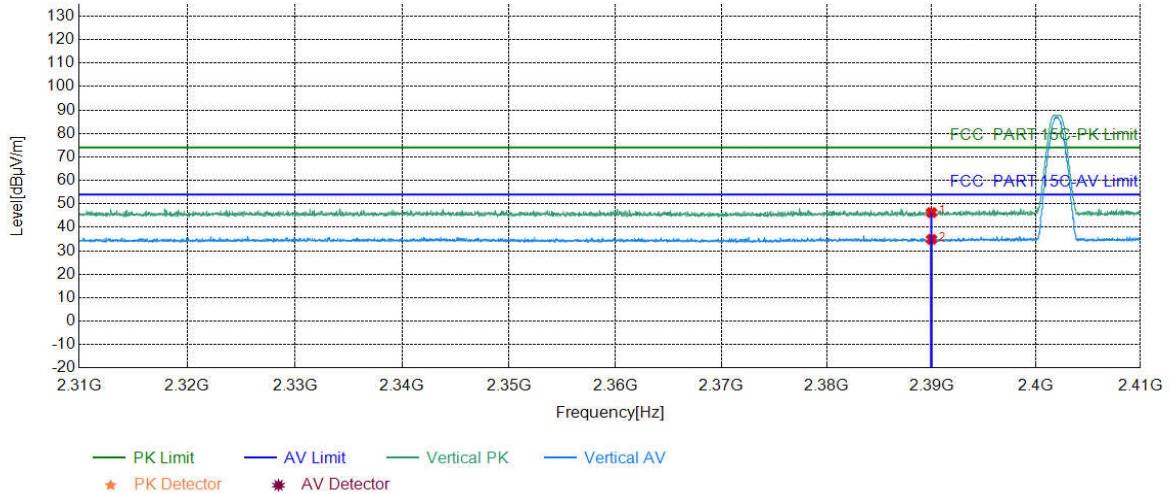
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.52	46.29	74.00	27.71	PASS	Horizontal	PK
2	2390.0000	5.77	28.38	34.15	54.00	19.85	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH55 Ble

Test Graph

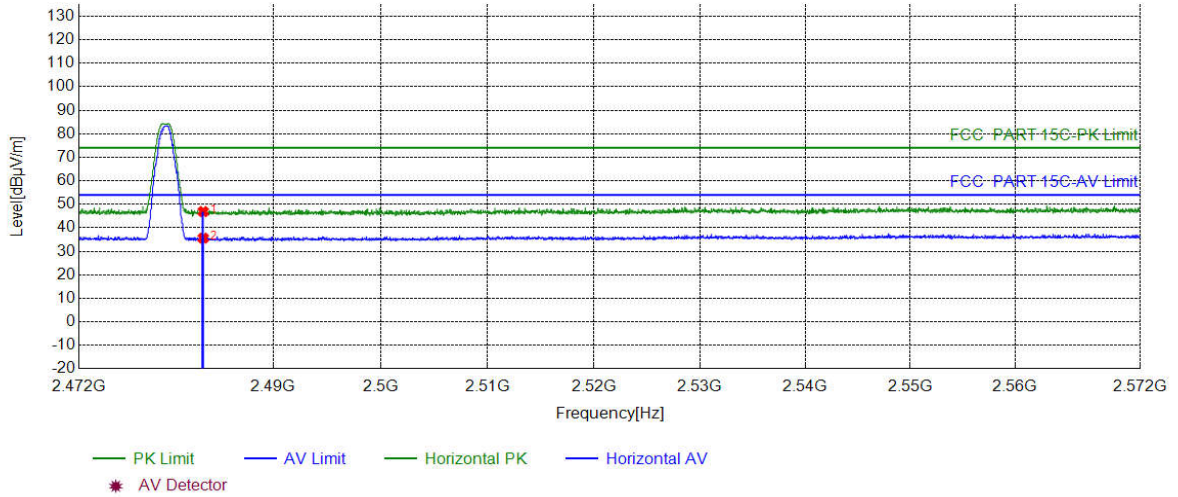


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.51	46.28	74.00	27.72	PASS	Vertical	PK
2	2390.0000	5.77	29.07	34.84	54.00	19.16	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH55 Ble

Test Graph

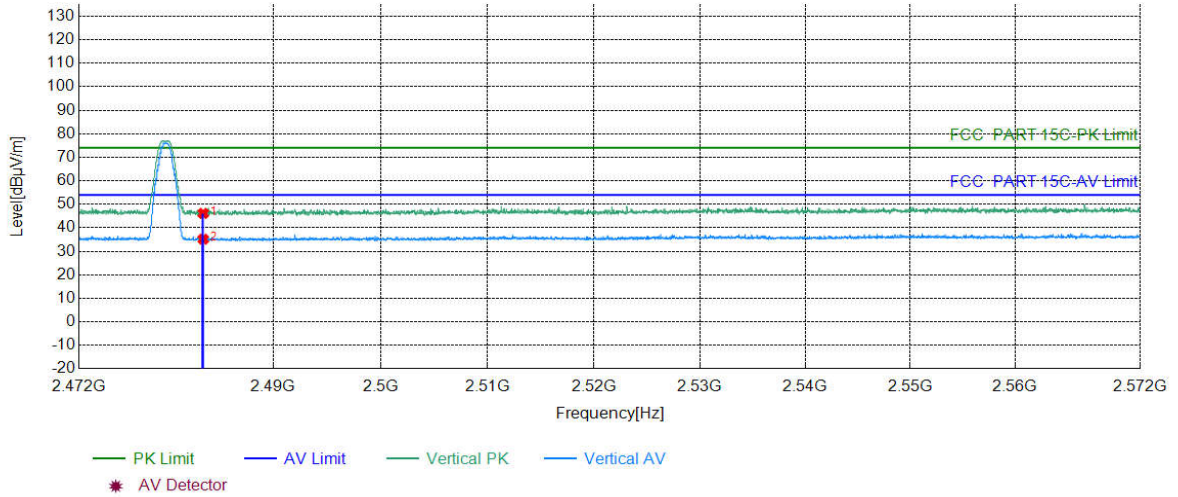


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.34	46.91	74.00	27.09	PASS	Horizontal	PK
2	2483.5000	6.57	29.04	35.61	54.00	18.39	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH55 Ble

Test Graph

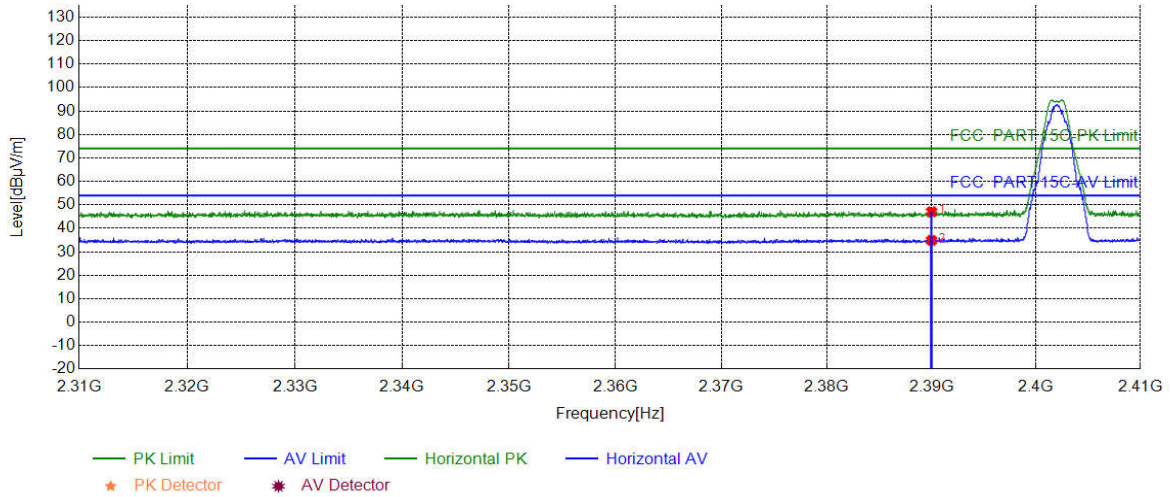


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.58	46.15	74.00	27.85	PASS	Vertical	PK
2	2483.5000	6.57	28.60	35.17	54.00	18.83	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH55 Ble

Test Graph

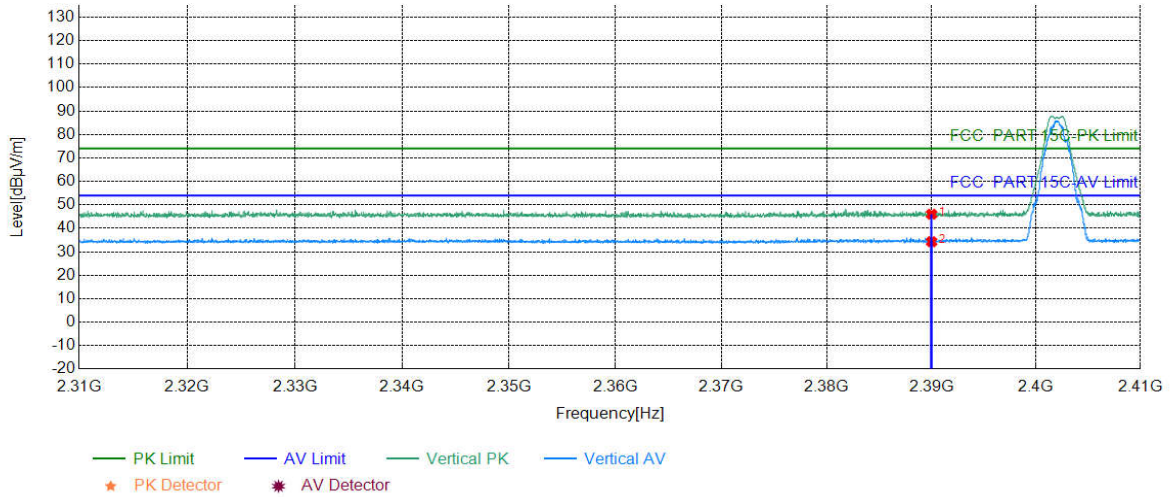


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	41.31	47.08	74.00	26.92	PASS	Horizontal	PK
2	2390.0000	5.77	29.09	34.86	54.00	19.14	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH55 Ble

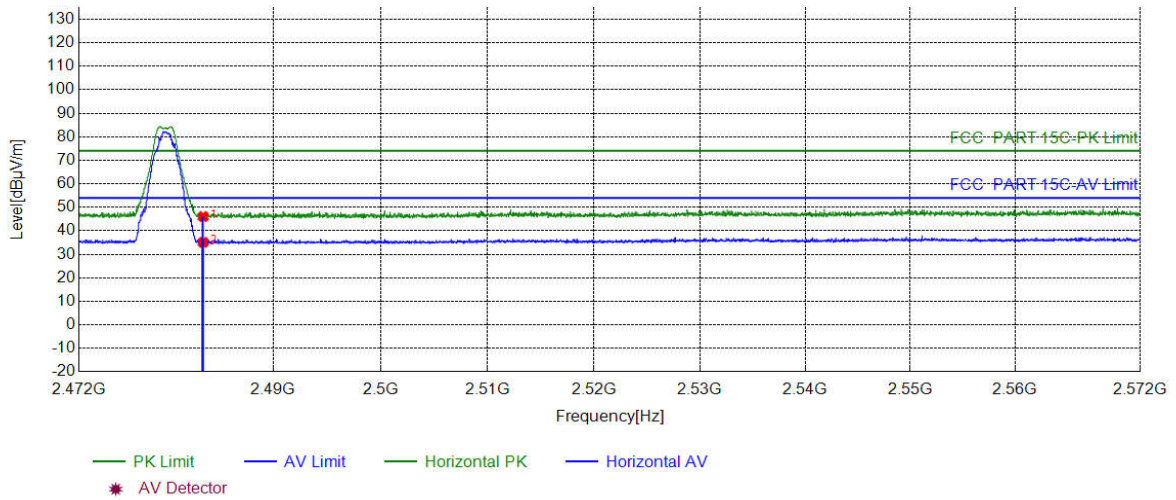
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.25	46.02	74.00	27.98	PASS	Vertical	PK
2	2390.0000	5.77	28.53	34.30	54.00	19.70	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH55 Ble

Test Graph

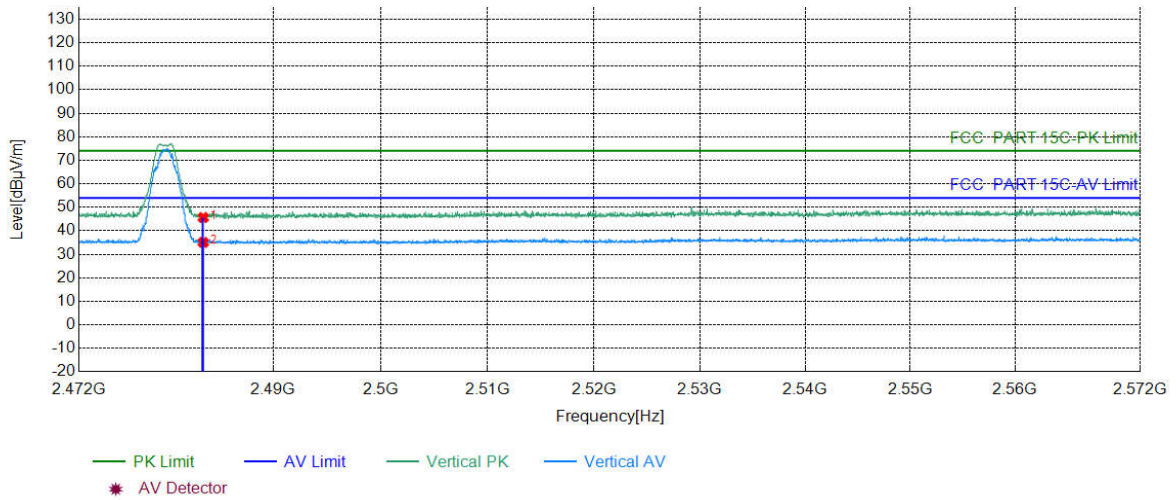


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.50	46.07	74.00	27.93	PASS	Horizontal	PK
2	2483.5000	6.57	28.53	35.10	54.00	18.90	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH55 Ble

Test Graph

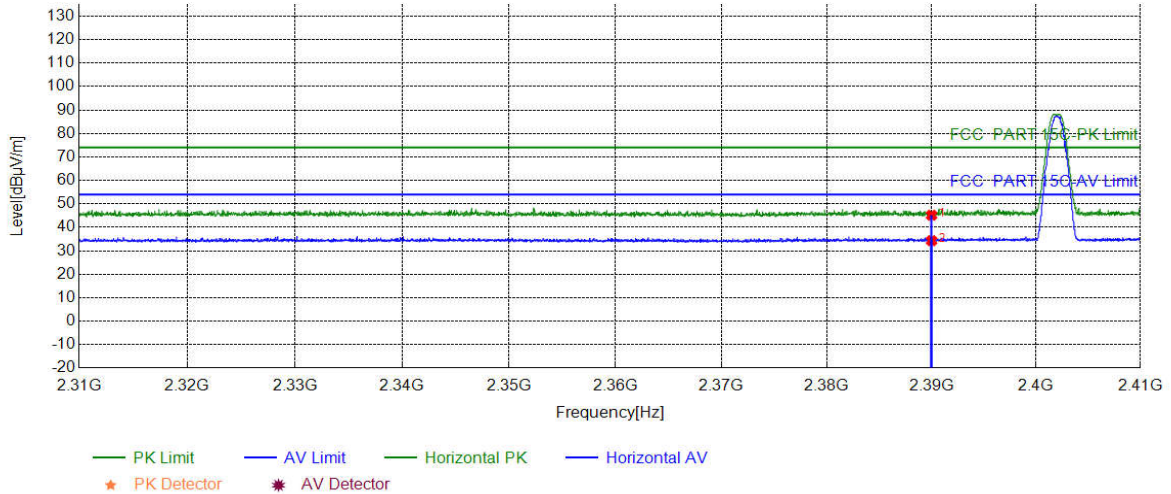


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.06	45.63	74.00	28.37	PASS	Vertical	PK
2	2483.5000	6.57	28.50	35.07	54.00	18.93	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH37 Ble

Test Graph

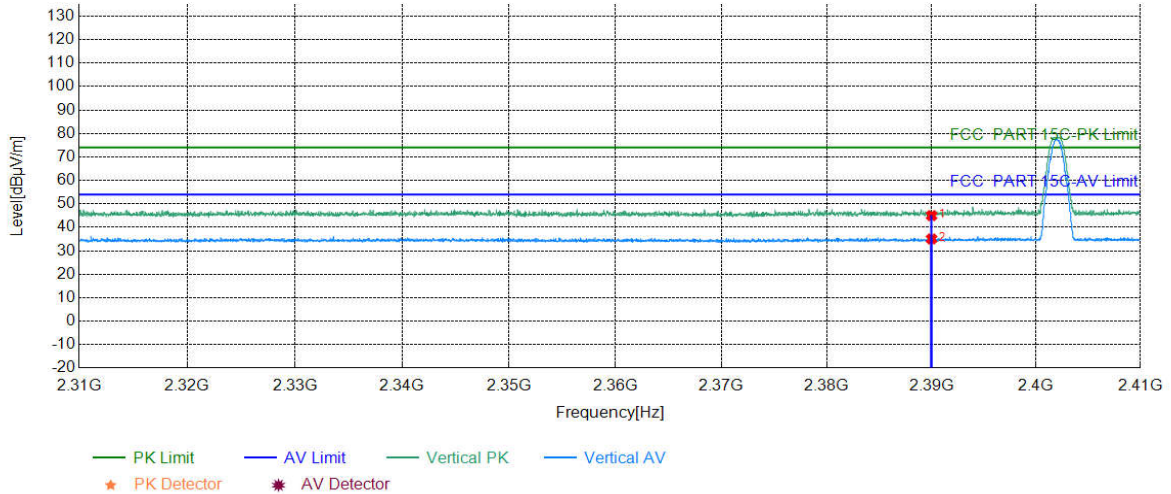


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.38	45.15	74.00	28.85	PASS	Horizontal	PK
2	2390.0000	5.77	28.54	34.31	54.00	19.69	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH37 Ble

Test Graph

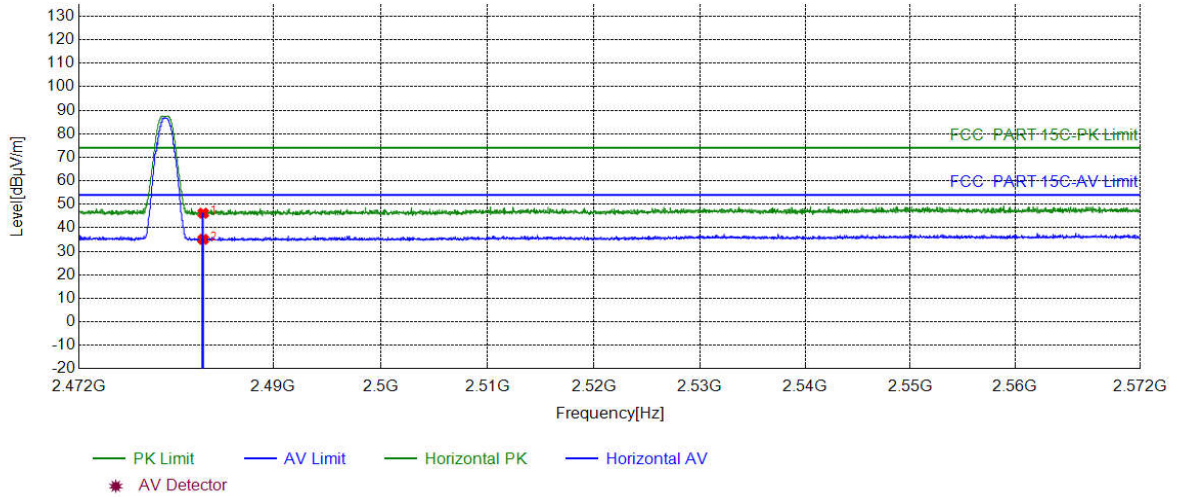


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.21	44.98	74.00	29.02	PASS	Vertical	PK
2	2390.0000	5.77	29.28	35.05	54.00	18.95	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH37 Ble

Test Graph

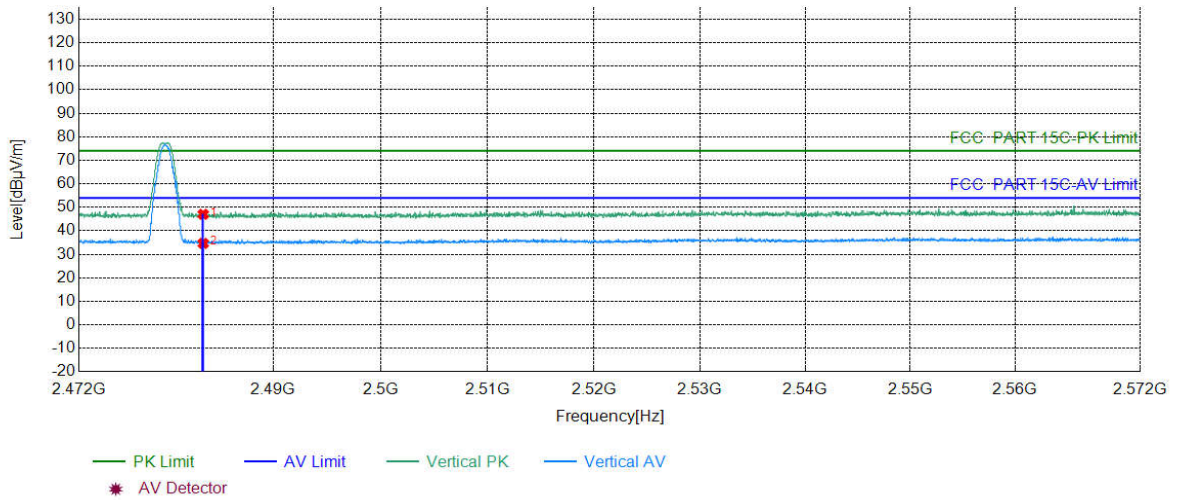


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.66	46.23	74.00	27.77	PASS	Horizontal	PK
2	2483.5000	6.57	28.53	35.10	54.00	18.90	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH37 Ble

Test Graph

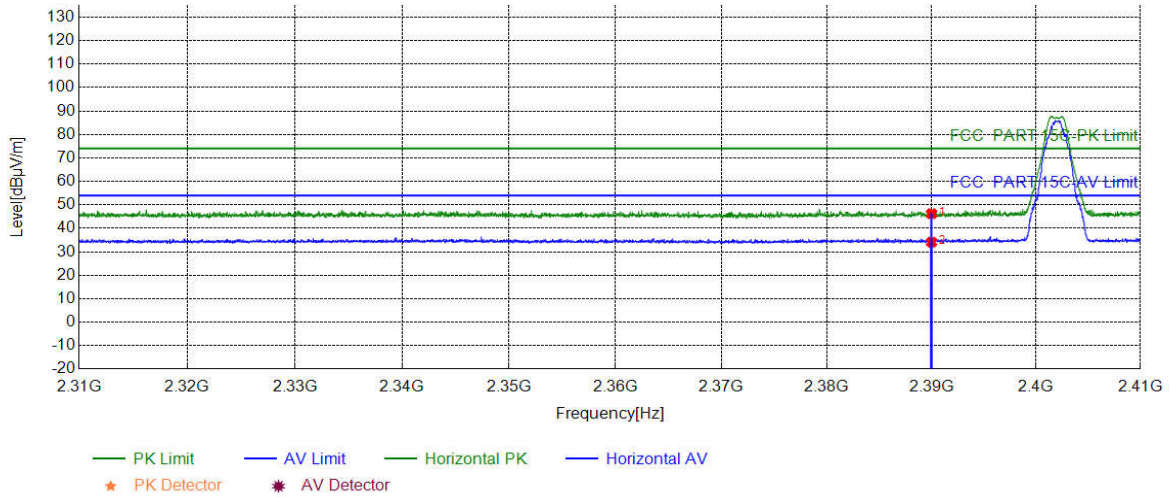


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.46	47.03	74.00	26.97	PASS	Vertical	PK
2	2483.5000	6.57	28.08	34.65	54.00	19.35	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH37 Ble

Test Graph

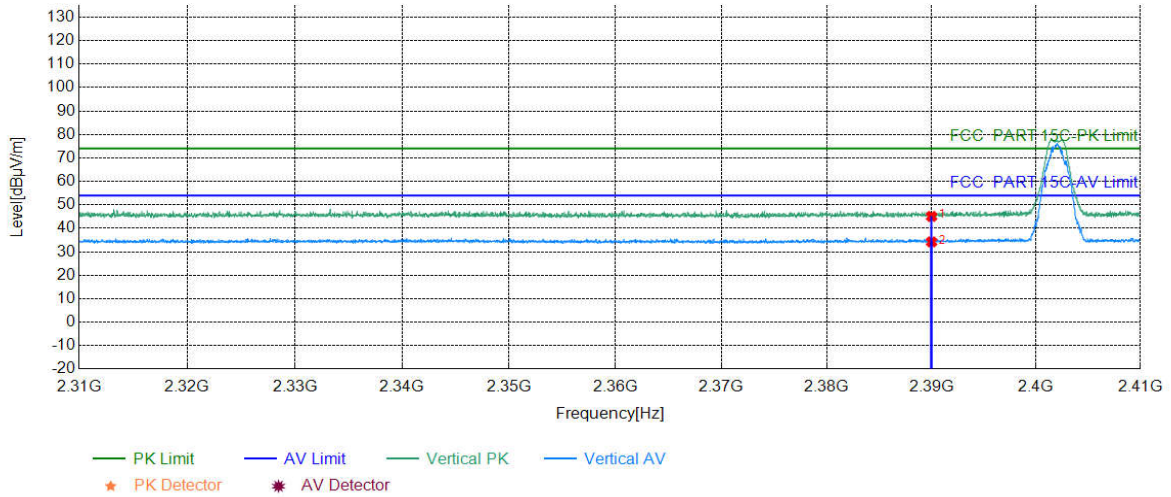


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.45	46.22	74.00	27.78	PASS	Horizontal	PK
2	2390.0000	5.77	28.33	34.10	54.00	19.90	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH37 Ble

Test Graph

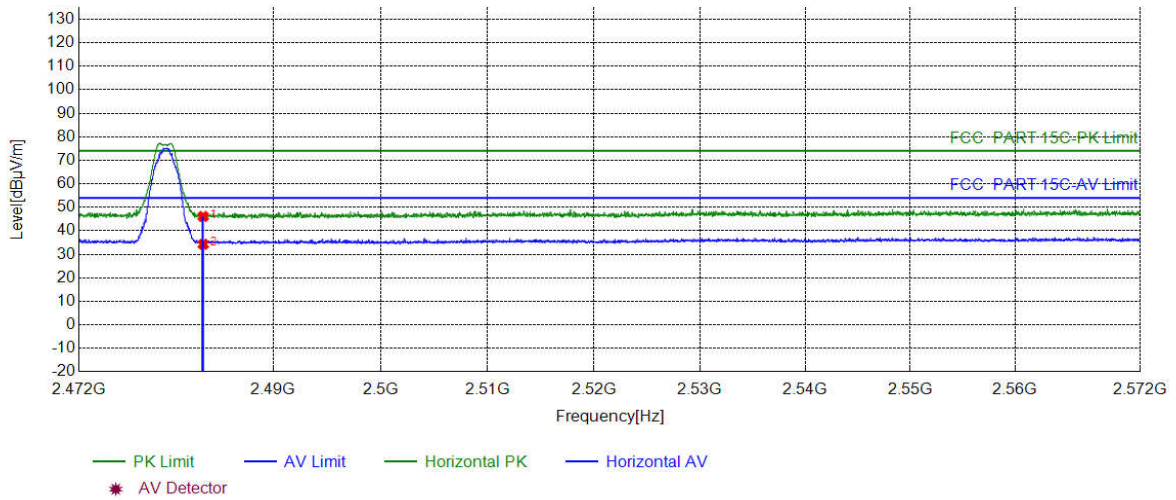


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.31	45.08	74.00	28.92	PASS	Vertical	PK
2	2390.0000	5.77	28.45	34.22	54.00	19.78	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH37 Ble

Test Graph

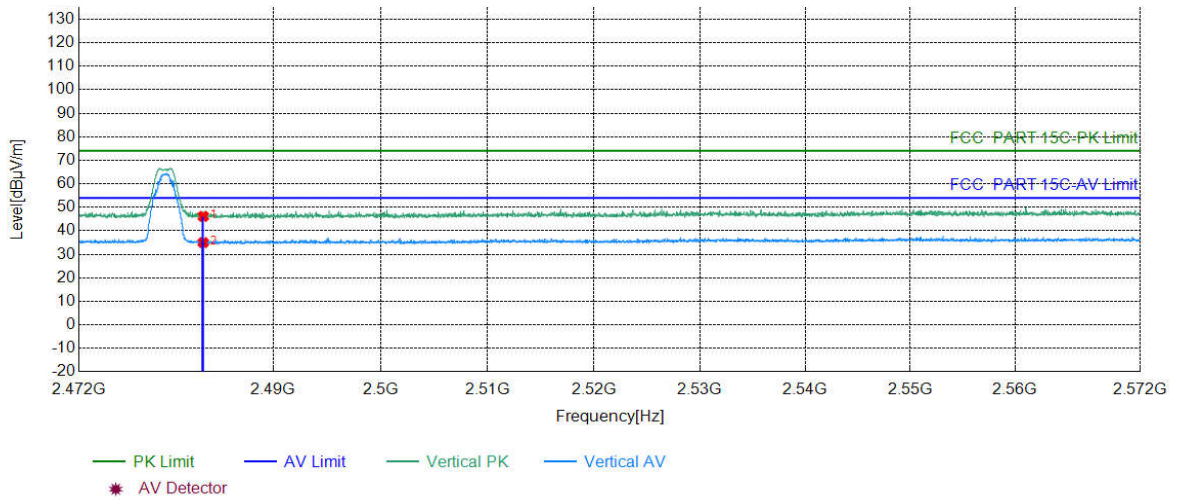


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.55	46.12	74.00	27.88	PASS	Horizontal	PK
2	2483.5000	6.57	27.68	34.25	54.00	19.75	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH37 Ble

Test Graph

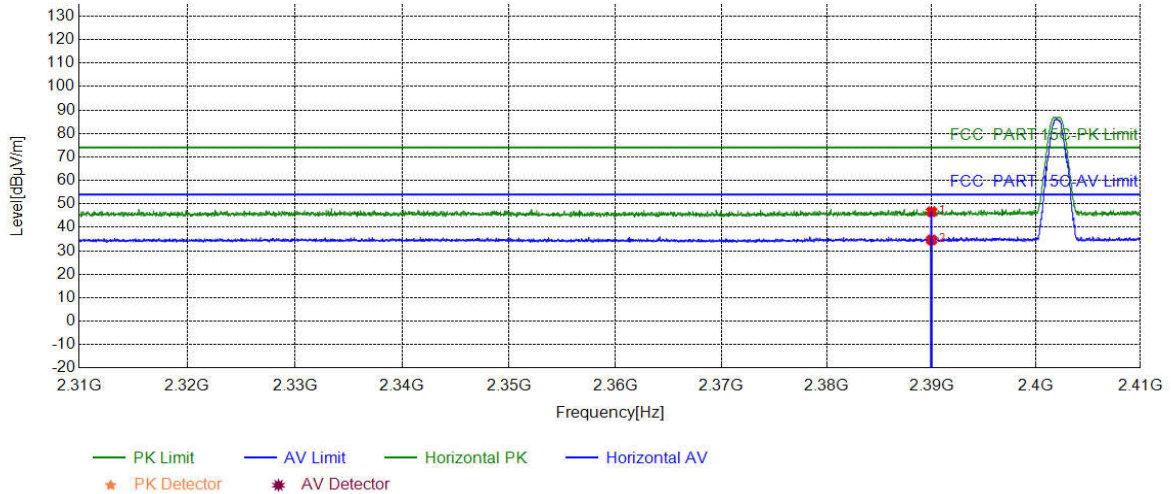


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.58	46.15	74.00	27.85	PASS	Vertical	PK
2	2483.5000	6.57	28.42	34.99	54.00	19.01	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH129 Ble

Test Graph

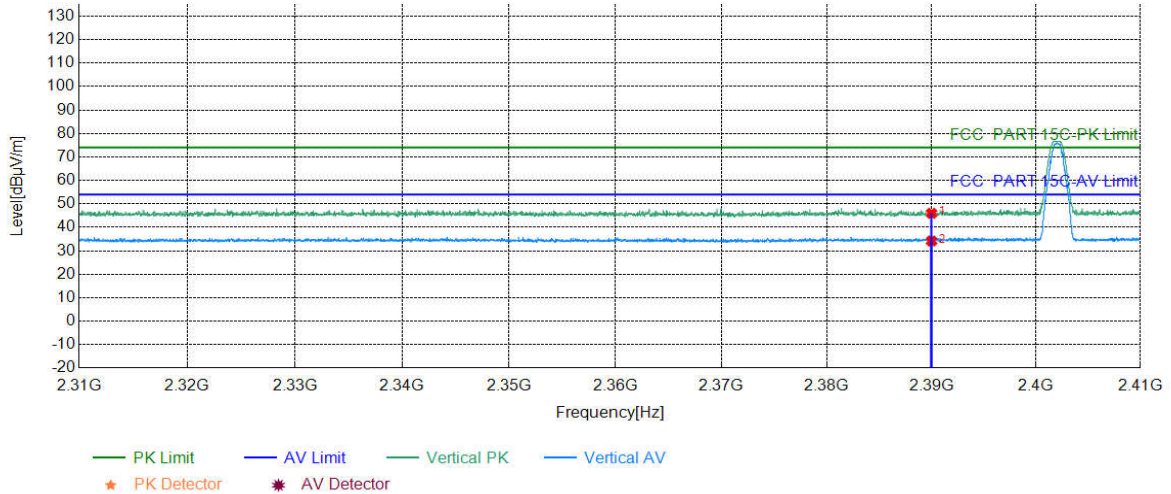


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.85	46.62	74.00	27.38	PASS	Horizontal	PK
2	2390.0000	5.77	28.86	34.63	54.00	19.37	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH129 Ble

Test Graph

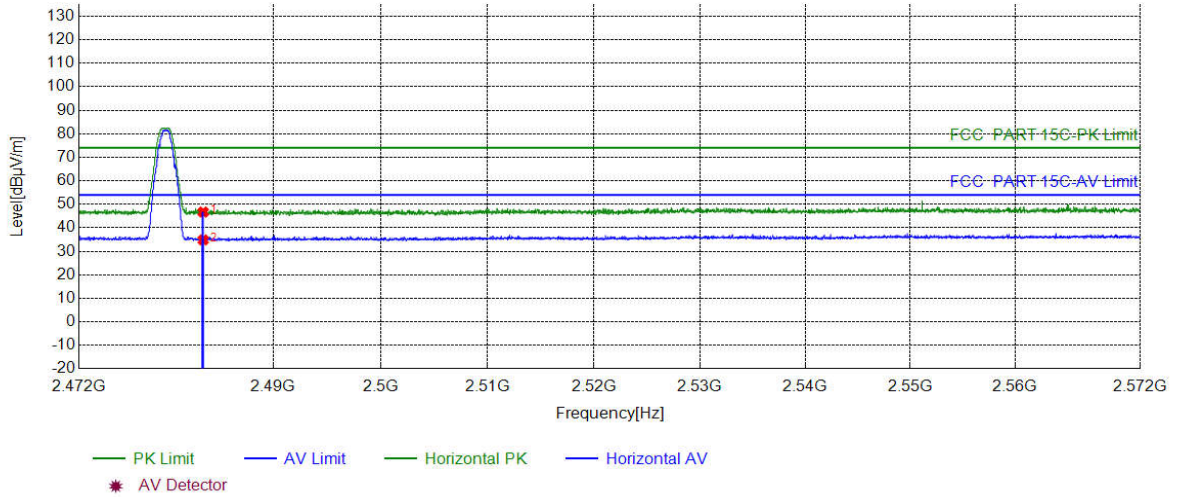


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.20	45.97	74.00	28.03	PASS	Vertical	PK
2	2390.0000	5.77	28.42	34.19	54.00	19.81	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH129 Ble

Test Graph

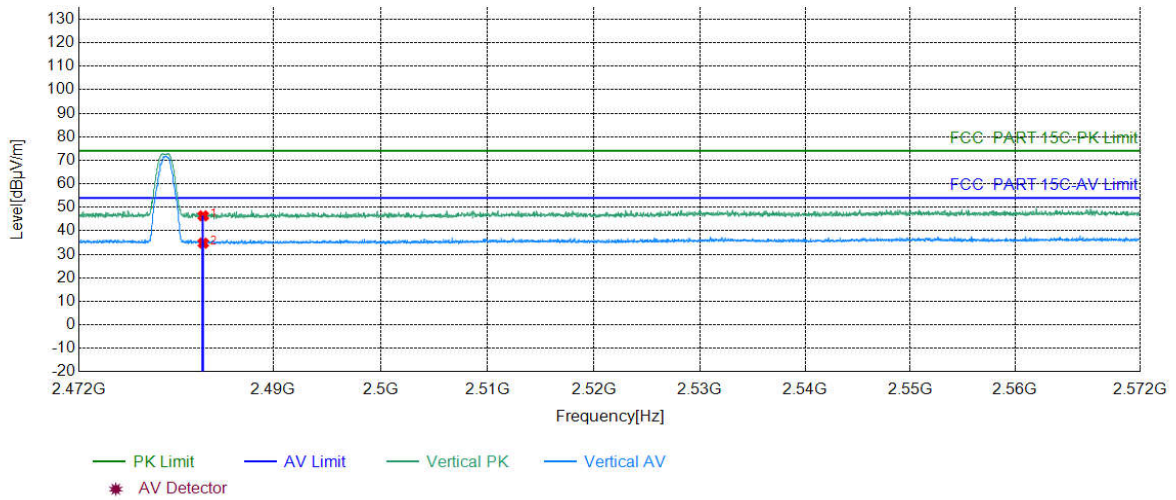


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.14	46.71	74.00	27.29	PASS	Horizontal	PK
2	2483.5000	6.57	28.27	34.84	54.00	19.16	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH129 Ble

Test Graph

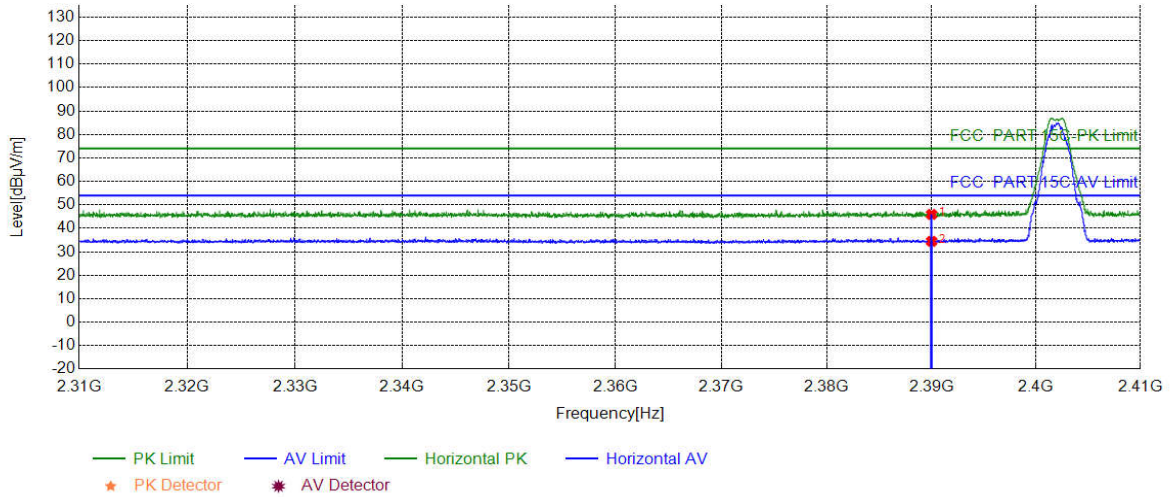


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.78	46.35	74.00	27.65	PASS	Vertical	PK
2	2483.5000	6.57	28.18	34.75	54.00	19.25	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH129 Ble

Test Graph

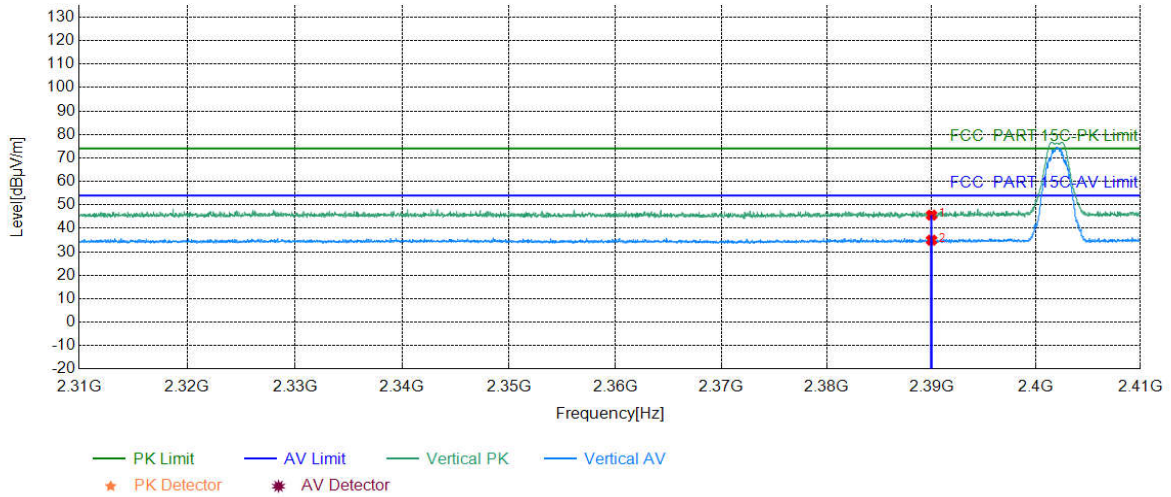


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.16	45.93	74.00	28.07	PASS	Horizontal	PK
2	2390.0000	5.77	28.69	34.46	54.00	19.54	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH129 Ble

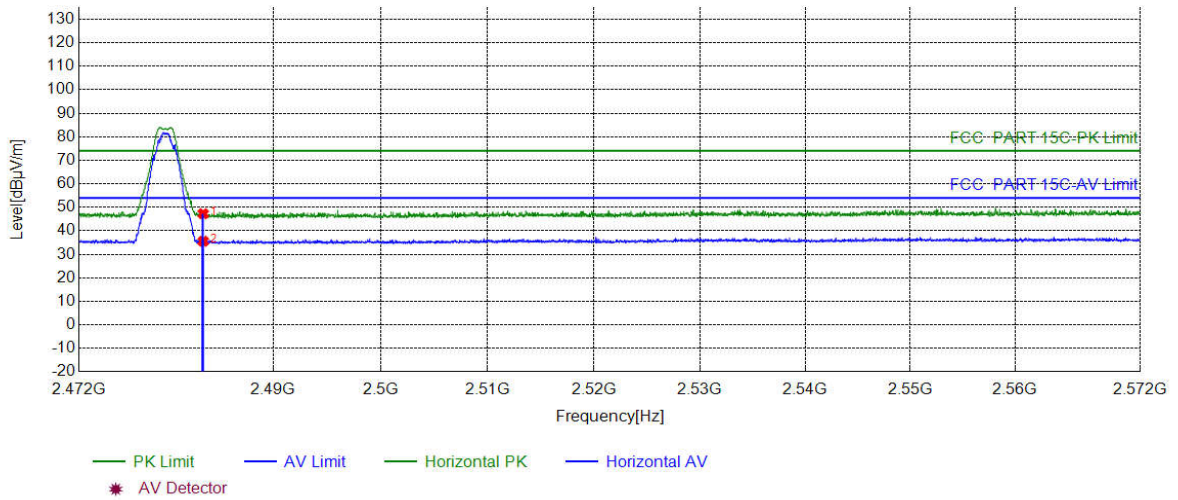
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.84	45.61	74.00	28.39	PASS	Vertical	PK
2	2390.0000	5.77	29.17	34.94	54.00	19.06	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH129 Ble

Test Graph

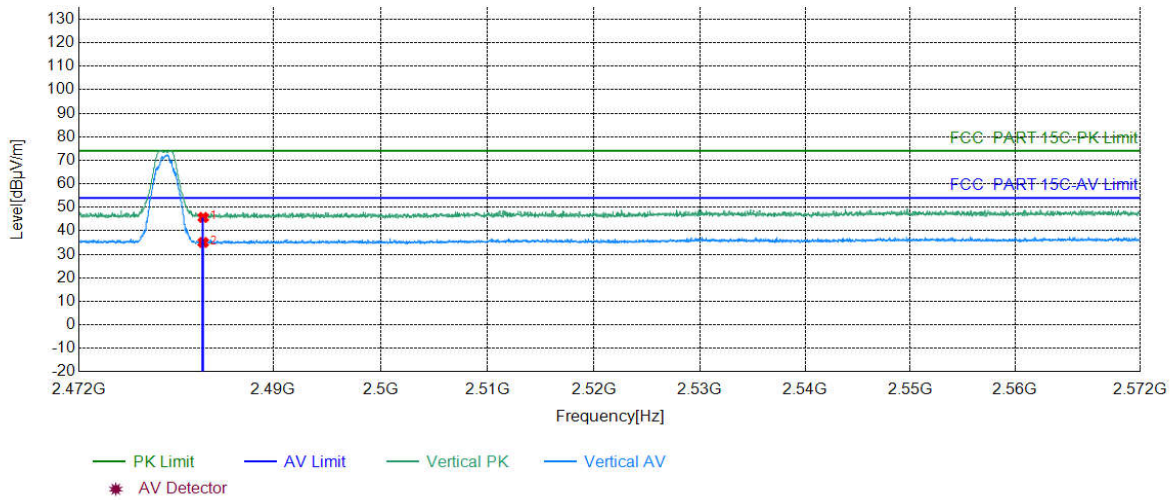


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.70	47.27	74.00	26.73	PASS	Horizontal	PK
2	2483.5000	6.57	28.99	35.56	54.00	18.44	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH129 Ble

Test Graph

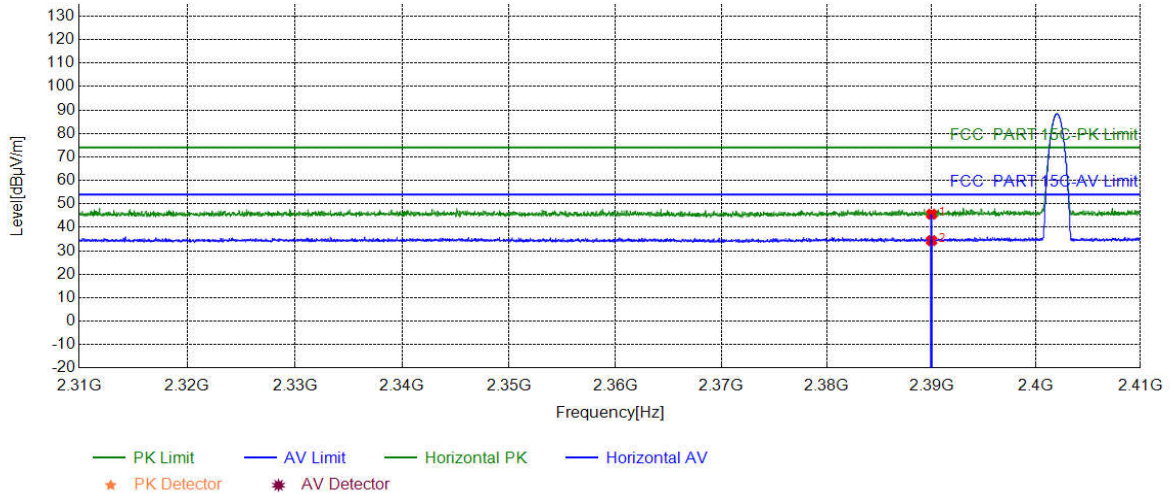


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.11	45.68	74.00	28.32	PASS	Vertical	PK
2	2483.5000	6.57	28.48	35.05	54.00	18.95	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH129B Ble

Test Graph

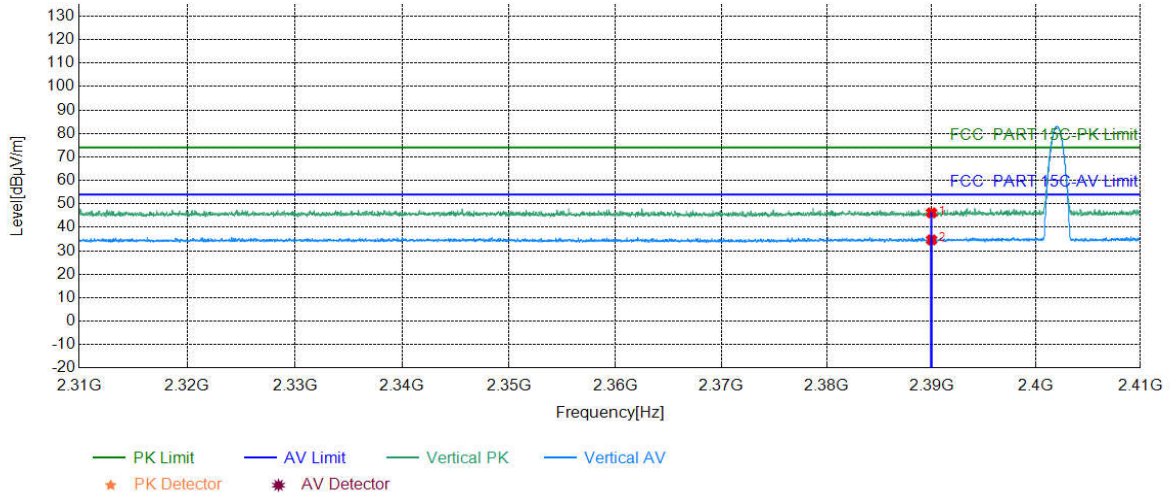


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.81	45.58	74.00	28.42	PASS	Horizontal	PK
2	2390.0000	5.77	28.57	34.34	54.00	19.66	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH129B Ble

Test Graph

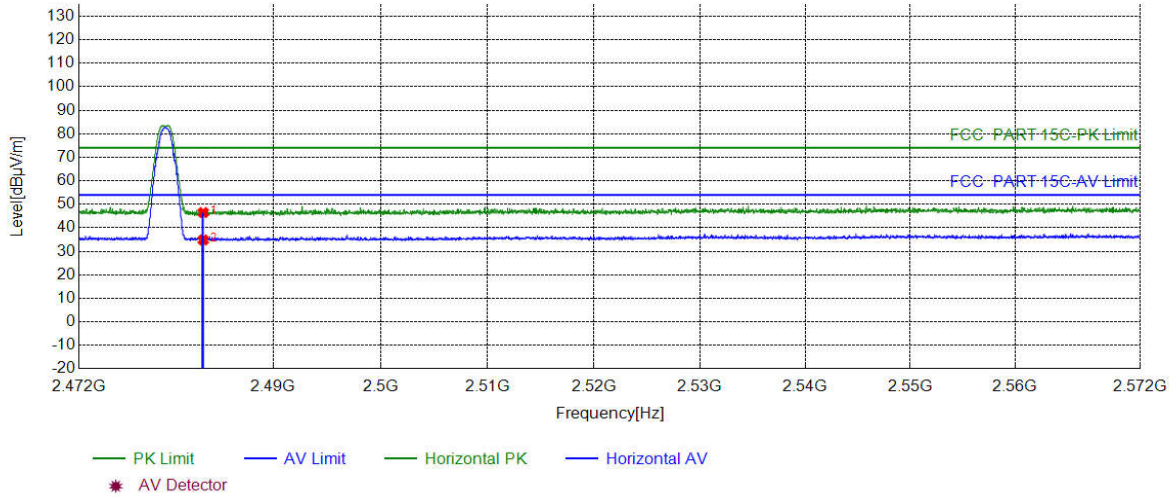


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.41	46.18	74.00	27.82	PASS	Vertical	PK
2	2390.0000	5.77	28.88	34.65	54.00	19.35	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH129B Ble

Test Graph

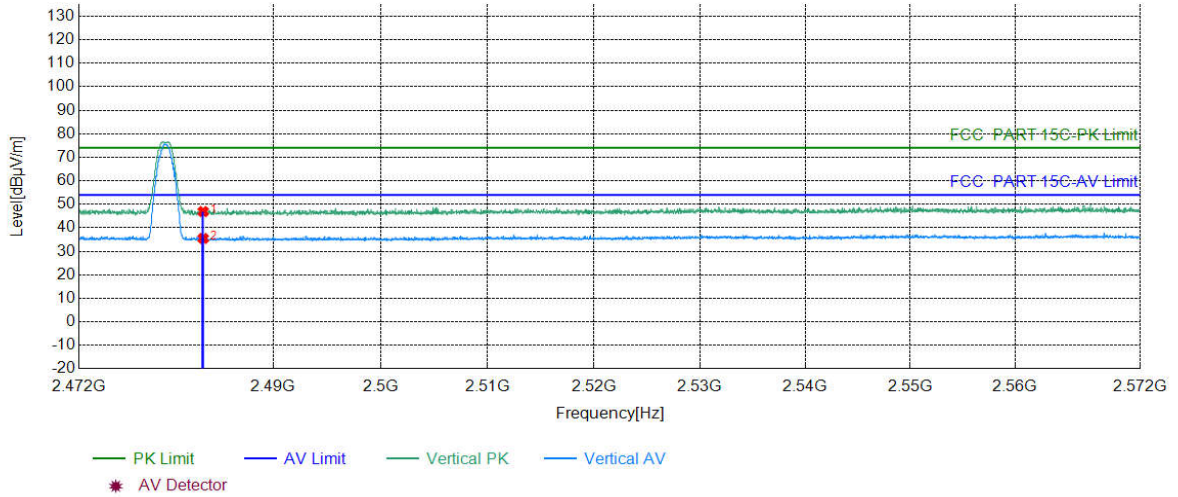


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.92	46.49	74.00	27.51	PASS	Horizontal	PK
2	2483.5000	6.57	28.25	34.82	54.00	19.18	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH129B Ble

Test Graph

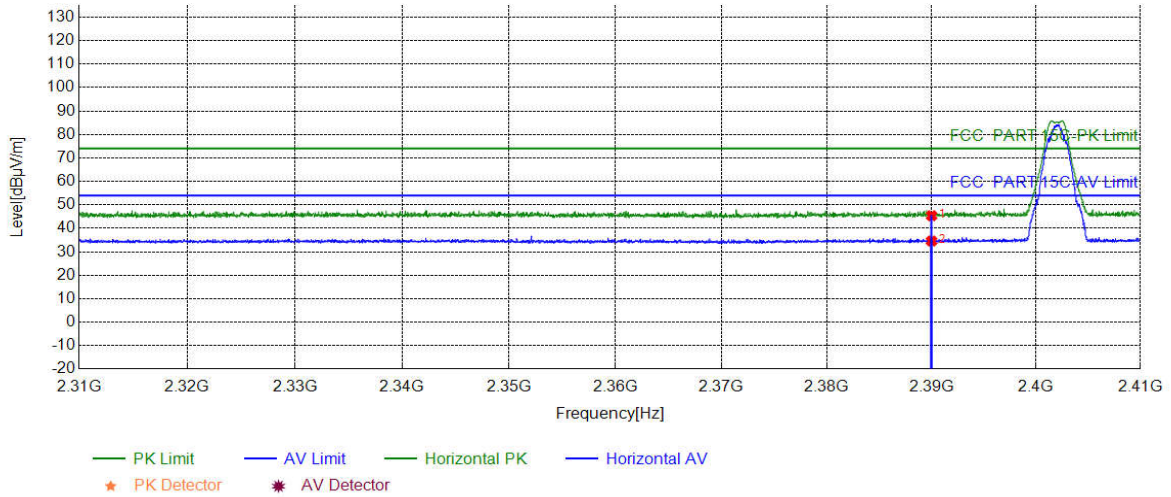


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.35	46.92	74.00	27.08	PASS	Vertical	PK
2	2483.5000	6.57	28.90	35.47	54.00	18.53	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH129B Ble

Test Graph

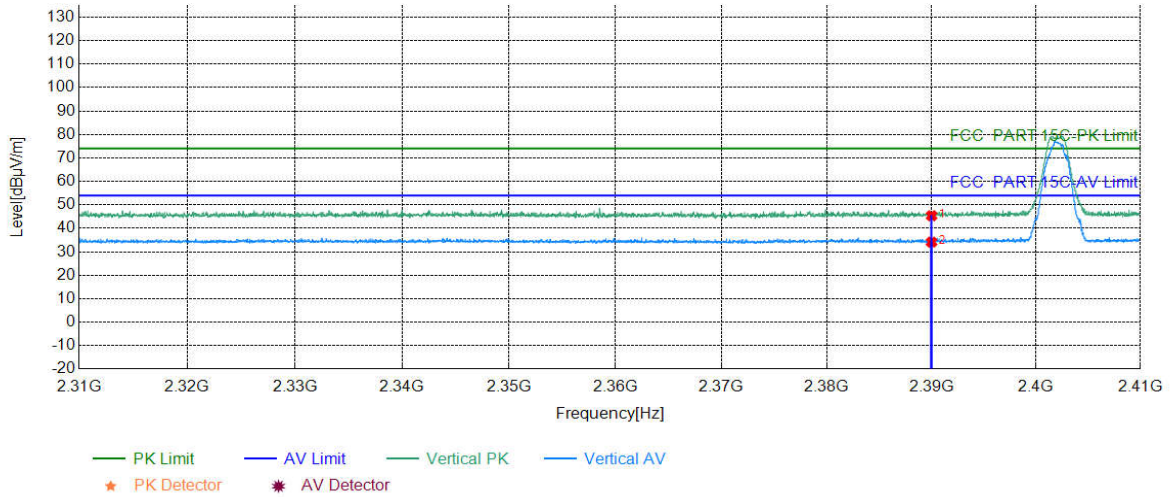


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.61	45.38	74.00	28.62	PASS	Horizontal	PK
2	2390.0000	5.77	28.83	34.60	54.00	19.40	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH129B Ble

Test Graph

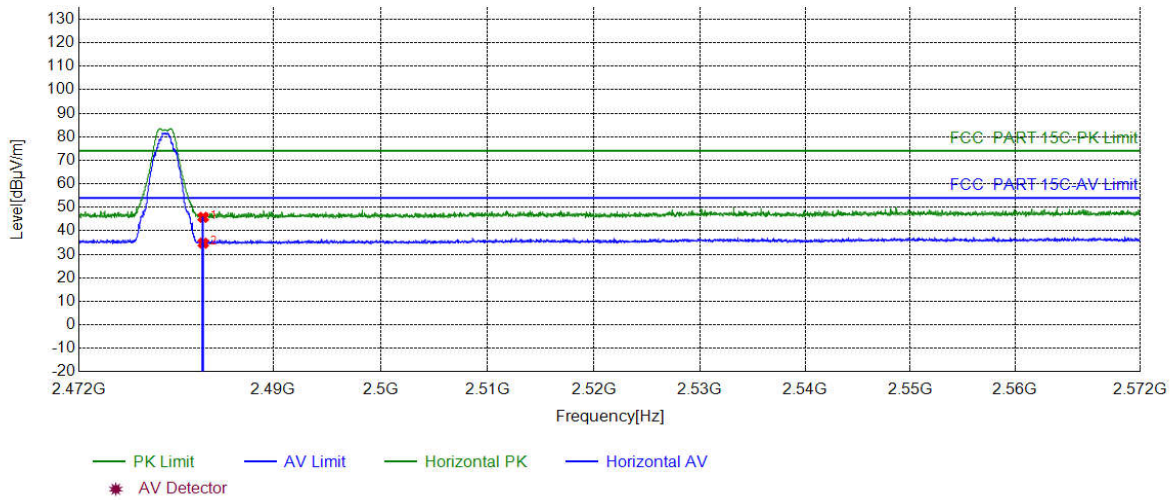


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.60	45.37	74.00	28.63	PASS	Vertical	PK
2	2390.0000	5.77	28.36	34.13	54.00	19.87	PASS	Vertical	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Horizontal	Test model No.:	HJH129B Ble

Test Graph

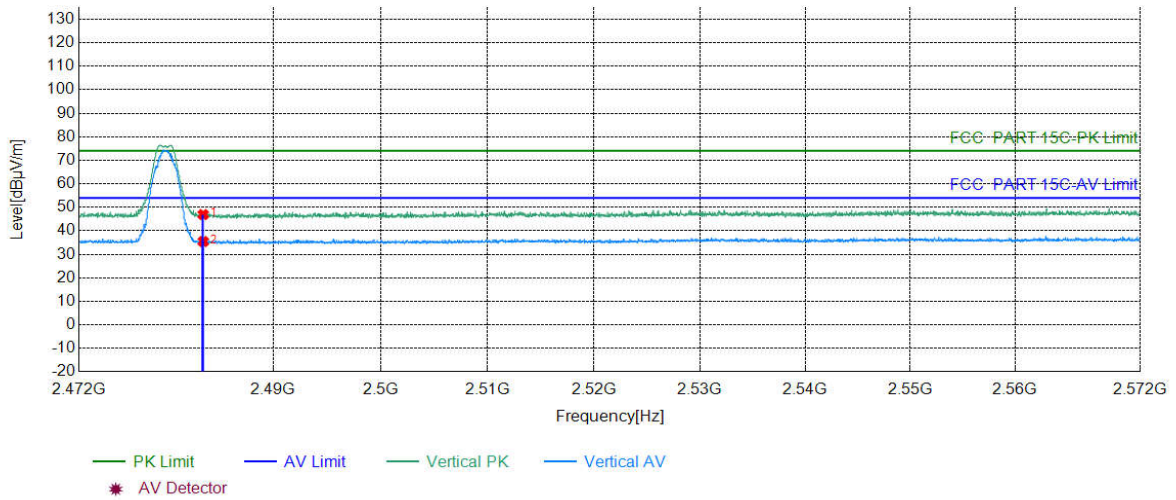


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.18	45.75	74.00	28.25	PASS	Horizontal	PK
2	2483.5000	6.57	28.18	34.75	54.00	19.25	PASS	Horizontal	AV

Mode:	BLE_2M	Channel:	2480
Remark:	Vertical	Test model No.:	HJH129B Ble

Test Graph

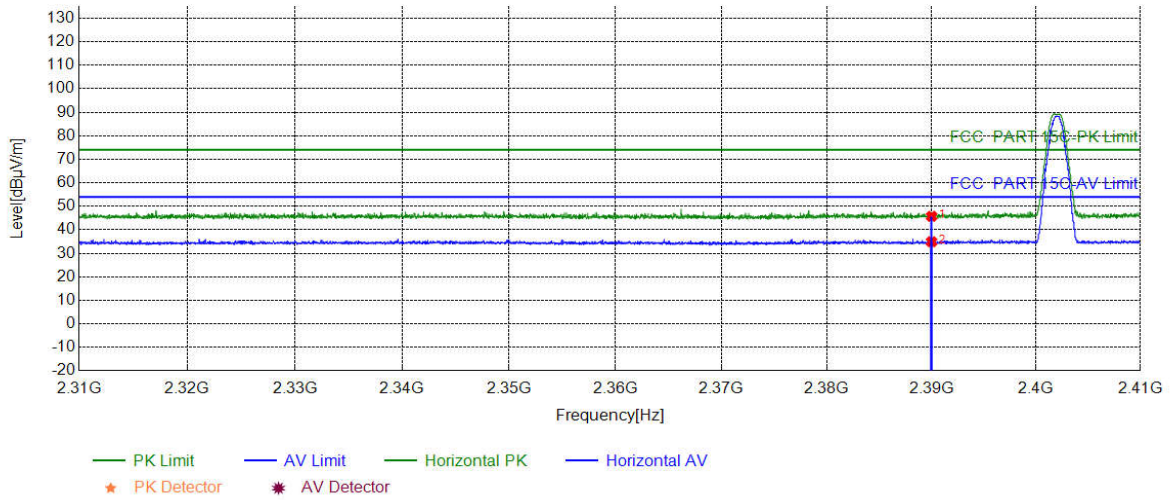


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.35	46.92	74.00	27.08	PASS	Vertical	PK
2	2483.5000	6.57	28.87	35.44	54.00	18.56	PASS	Vertical	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Horizontal	Test model No.:	HJH13D Ble

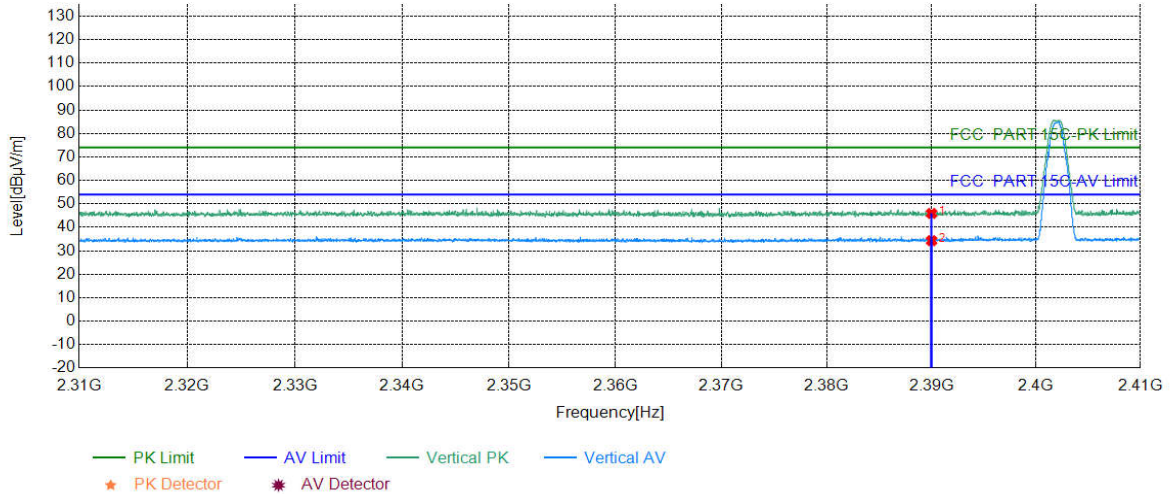
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.97	45.74	74.00	28.26	PASS	Horizontal	PK
2	2390.0000	5.77	29.14	34.91	54.00	19.09	PASS	Horizontal	AV

Mode:	BLE_1M	Channel:	2402
Remark:	Vertical	Test model No.:	HJH13D Ble

Test Graph



Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.14	45.91	74.00	28.09	PASS	Vertical	PK
2	2390.0000	5.77	28.55	34.32	54.00	19.68	PASS	Vertical	AV