

Report No.: SEWM2305000163RG01
Rev.: 01
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TEST REPORT

Application No.: SEWM2305000163RG
Applicant: Rad Golf, Inc.
Address of Applicant: 4026 N. Miller road Suite 102, Scottsdale, Arizona 85251, US
Manufacturer: GlobalSat WorldCom Corporation
Address of Manufacturer: 16F., No.186, Jian 1st Rd. Zhonghe Dist., New Taipei City 23553 Taiwan
EUT Description: WATCH
Model No.: RGWWBK-01
Trade Mark: Rad Golf
FCC ID: 2A69E-RGWWBK-01
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/05/24
Date of Test: 2023/05/24 to 2023/06/06
Date of Issue: 2023/06/06

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Panta Sun
Wireless Laboratory Manager



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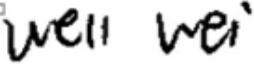
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1 Version

Revision Record

Version	Chapter	Date	Modifier	Remark
01		2023/06/06		Original

Prepared By	
(Tizzy Song) / Test Engineer	
Checked By	
(Well Wei) / Reviewer	



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory

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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS

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3 General Information

3.1 Details of Client

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Manufacturer:	GlobalSat WorldCom Corporation
Address of Manufacturer:	16F., No.186, Jian 1st Rd. Zhonghe Dist., New Taipei City 23553 Taiwan

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	WATCH	
Model No.:	RGWWBK-01	
Trade Mark:	Rad Golf	
Hardware Version:	V1.1	
Software Version:	V1.0.0	
SN:	RF Conducted	/
	RSE & AC power line	02AC500472
Operation Frequency:	2400MHz~2483.5MHz $fc = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.	
Bluetooth version:	Bluetooth V4.0	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type*:	<input checked="" type="checkbox"/> Provided by client 1M PHY	
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
Antenna Gain:	1.72dBi(Ant0) Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2dB	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	

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Operation Frequency of each channel

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

Remark:

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

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

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3.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.3
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement:	The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
The antenna is Integrated antenna and no consideration of replacement. The best case gain of the antenna is 1.72dBi(Ant0). *	
*Note: <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i>	
Remark: <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	

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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range(MHz)		Limit (dBuV)
			Quasi-peak Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement. 		

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Test Setup:	<p>Shielding Room</p> <p>EUT</p> <p>AE</p> <p>Test Receiver</p> <p>AC Mains</p> <p>LISN1</p> <p>LISN2</p> <p>80cm</p> <p>80cm</p> <p>Ground Reference Plane</p>
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass

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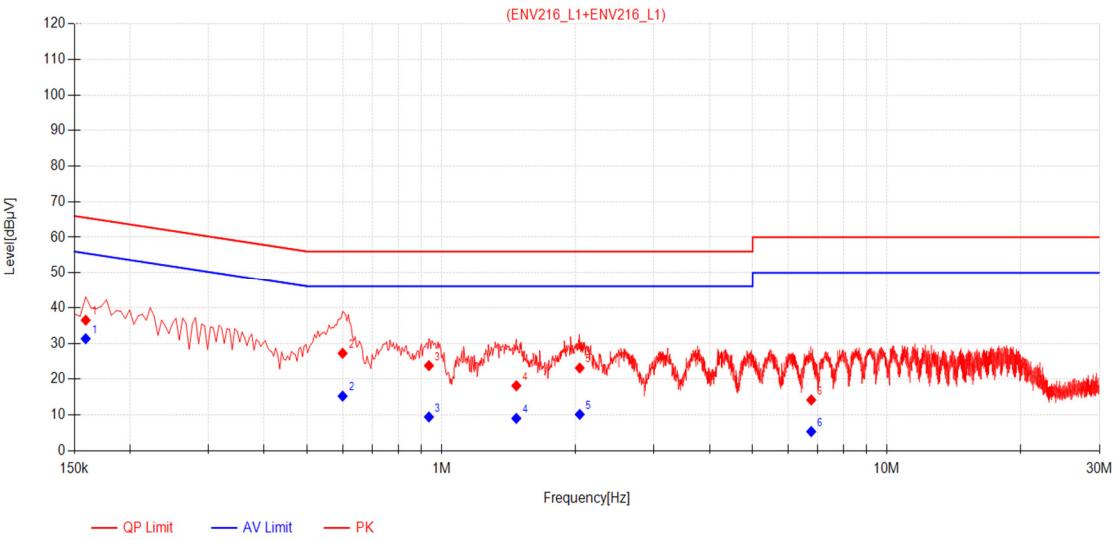
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Phase:	Line																																																																																				
																																																																																					
<p>Final Data List</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>Frequency [MHz]</th> <th>Factor [dB]</th> <th>QP Reading [dBμV]</th> <th>QP Value [dBμV]</th> <th>QP Limit [dBμV]</th> <th>QP Margin [dB]</th> <th>AV Reading [dBμV]</th> <th>AV Value [dBμV]</th> <th>AV Limit [dBμV]</th> <th>AV Margin [dB]</th> <th>Verdict</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.1590</td> <td>11.82</td> <td>24.67</td> <td>36.49</td> <td>65.52</td> <td>29.03</td> <td>19.50</td> <td>31.32</td> <td>55.52</td> <td>24.20</td> <td>PASS</td> </tr> <tr> <td>2</td> <td>0.6000</td> <td>11.63</td> <td>15.61</td> <td>27.24</td> <td>56.00</td> <td>28.76</td> <td>3.65</td> <td>15.28</td> <td>46.00</td> <td>30.72</td> <td>PASS</td> </tr> <tr> <td>3</td> <td>0.9375</td> <td>11.72</td> <td>12.07</td> <td>23.79</td> <td>56.00</td> <td>32.21</td> <td>-2.26</td> <td>9.46</td> <td>46.00</td> <td>36.54</td> <td>PASS</td> </tr> <tr> <td>4</td> <td>1.4730</td> <td>11.73</td> <td>6.44</td> <td>18.17</td> <td>56.00</td> <td>37.83</td> <td>-2.67</td> <td>9.06</td> <td>46.00</td> <td>36.94</td> <td>PASS</td> </tr> <tr> <td>5</td> <td>2.0445</td> <td>11.73</td> <td>11.40</td> <td>23.13</td> <td>56.00</td> <td>32.87</td> <td>-1.56</td> <td>10.17</td> <td>46.00</td> <td>35.83</td> <td>PASS</td> </tr> <tr> <td>6</td> <td>6.7650</td> <td>11.88</td> <td>2.33</td> <td>14.21</td> <td>60.00</td> <td>45.79</td> <td>-6.51</td> <td>5.37</td> <td>50.00</td> <td>44.63</td> <td>PASS</td> </tr> </tbody> </table>		NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict	1	0.1590	11.82	24.67	36.49	65.52	29.03	19.50	31.32	55.52	24.20	PASS	2	0.6000	11.63	15.61	27.24	56.00	28.76	3.65	15.28	46.00	30.72	PASS	3	0.9375	11.72	12.07	23.79	56.00	32.21	-2.26	9.46	46.00	36.54	PASS	4	1.4730	11.73	6.44	18.17	56.00	37.83	-2.67	9.06	46.00	36.94	PASS	5	2.0445	11.73	11.40	23.13	56.00	32.87	-1.56	10.17	46.00	35.83	PASS	6	6.7650	11.88	2.33	14.21	60.00	45.79	-6.51	5.37	50.00	44.63	PASS
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict																																																																										
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Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value =Reading[dBμV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBμV] – Value[dBμV]

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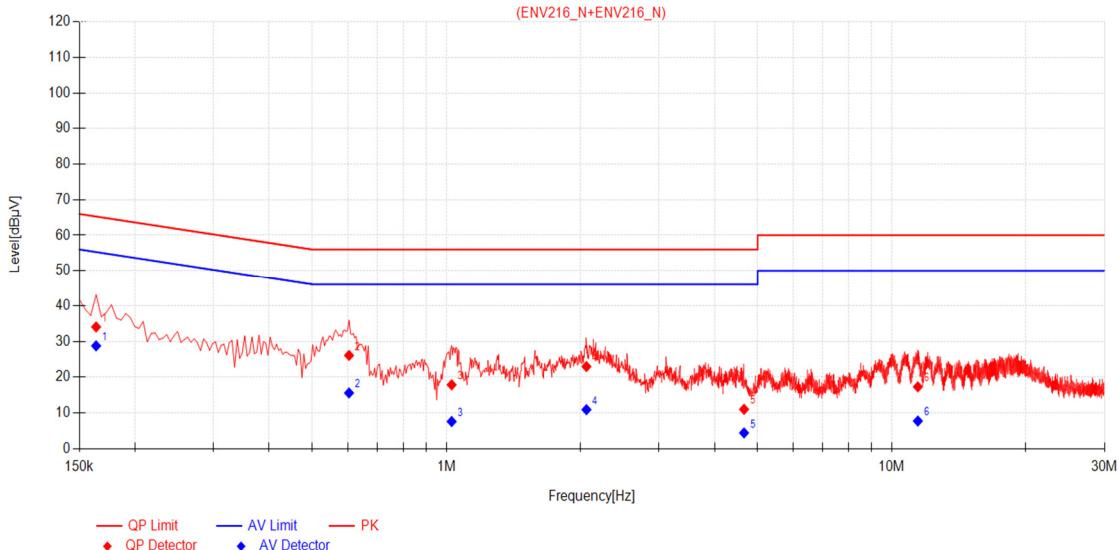
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Phase:	Neutral																																																																																				
																																																																																					
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4.3 Duty Cycle

The detailed test data see: **Appendix**

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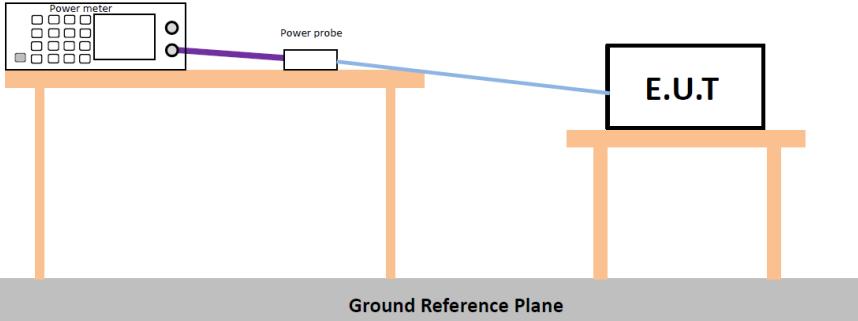
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 Section 11.9.1.2
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix**

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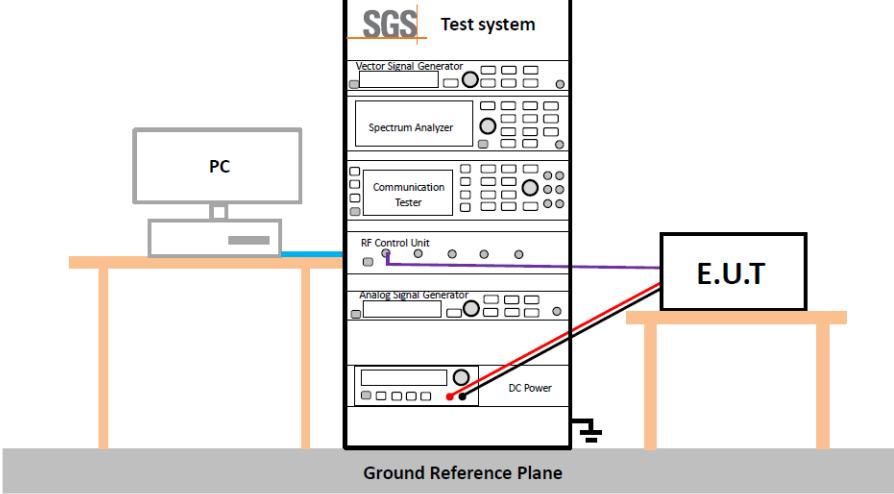


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	

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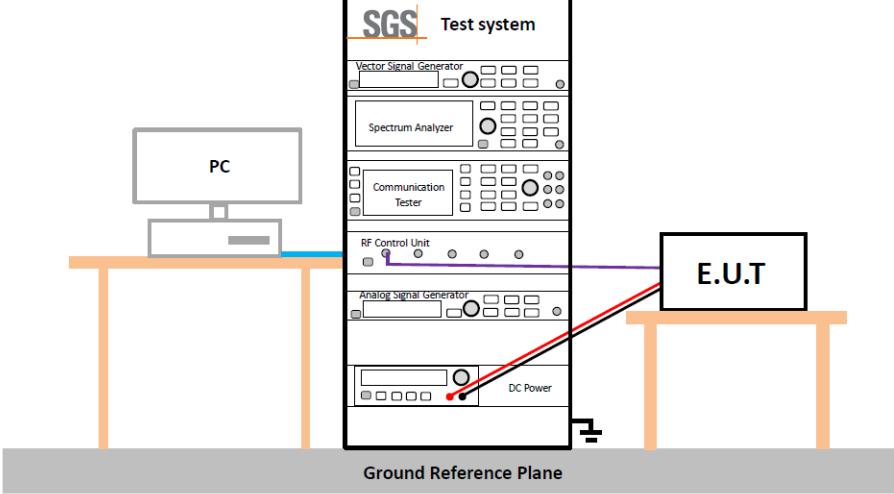


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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	$\leq 8.00 \text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	

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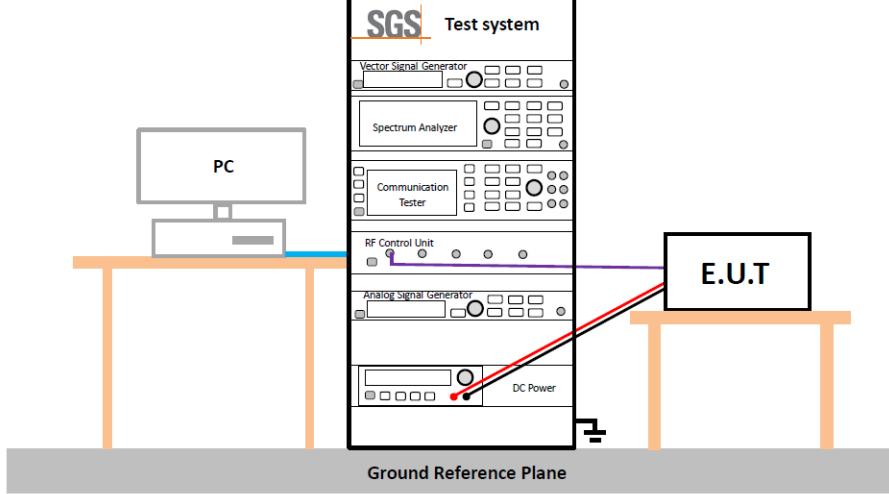


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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

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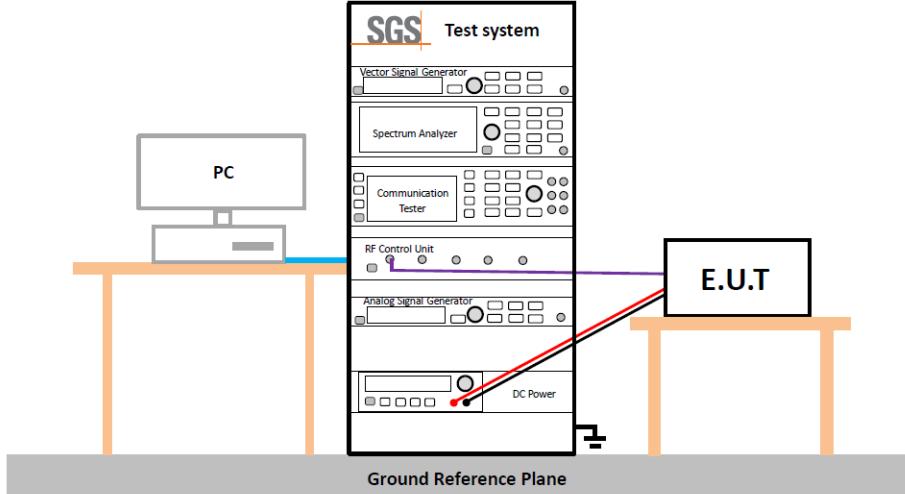


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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

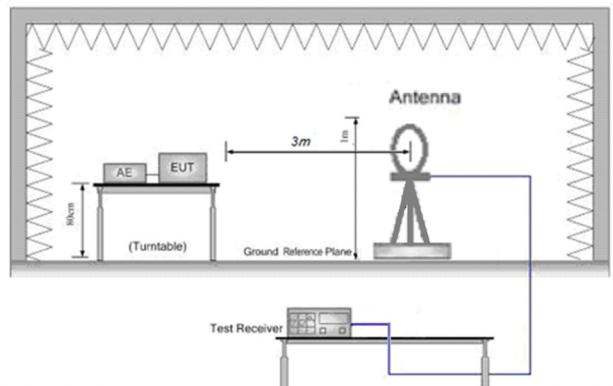


Figure 1. Below 30MHz

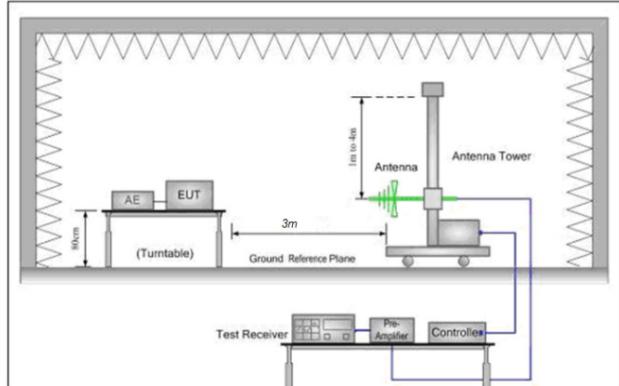


Figure 2. 30MHz to 1GHz

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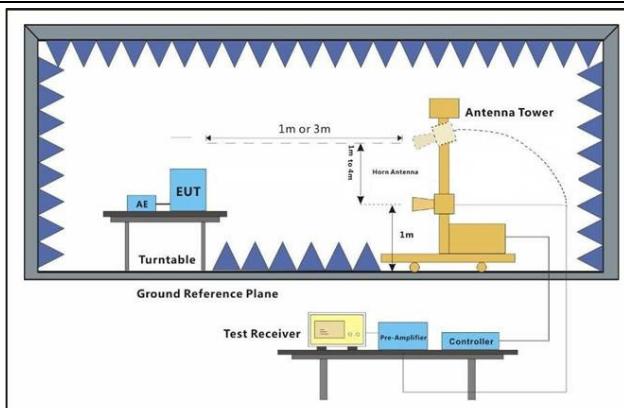


Figure 3. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz). The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Test the EUT in the lowest channel, the middle channel ,the Highest channel. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. At a measurement distance of 1 meter the limit line was increased by $20 \times \log(3/1) = 9.54$ dB.
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> RBW = 10 kHz VBW = 30 kHz Detector = Peak & Average & Quasi-peak Trace mode = max hold

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	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none">• RBW = 120 kHz• VBW = 300 kHz• Detector = Quasi-peak• Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2020 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

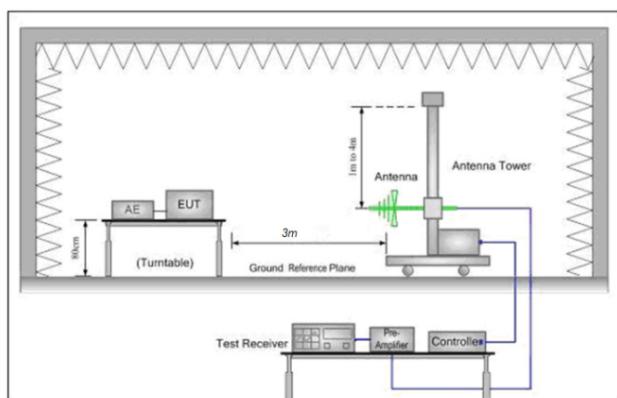


Figure 1. 30MHz to 1GHz

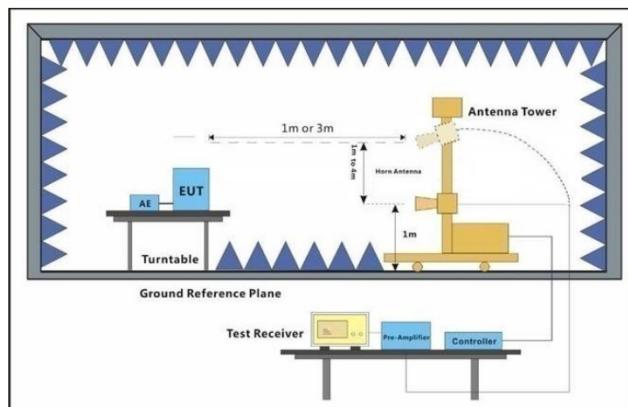


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 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 table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit
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	<p>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> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.88dB (30M -1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cisp/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22

Conduction Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05

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RSE Test System

ISO 16000-4 System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant0	2402	0.504	2401.75	2402.26	≥0.5	PASS
BLE_1M	Ant0	2440	0.504	2439.75	2440.26	≥0.5	PASS
BLE_1M	Ant0	2480	0.504	2479.75	2480.26	≥0.5	PASS

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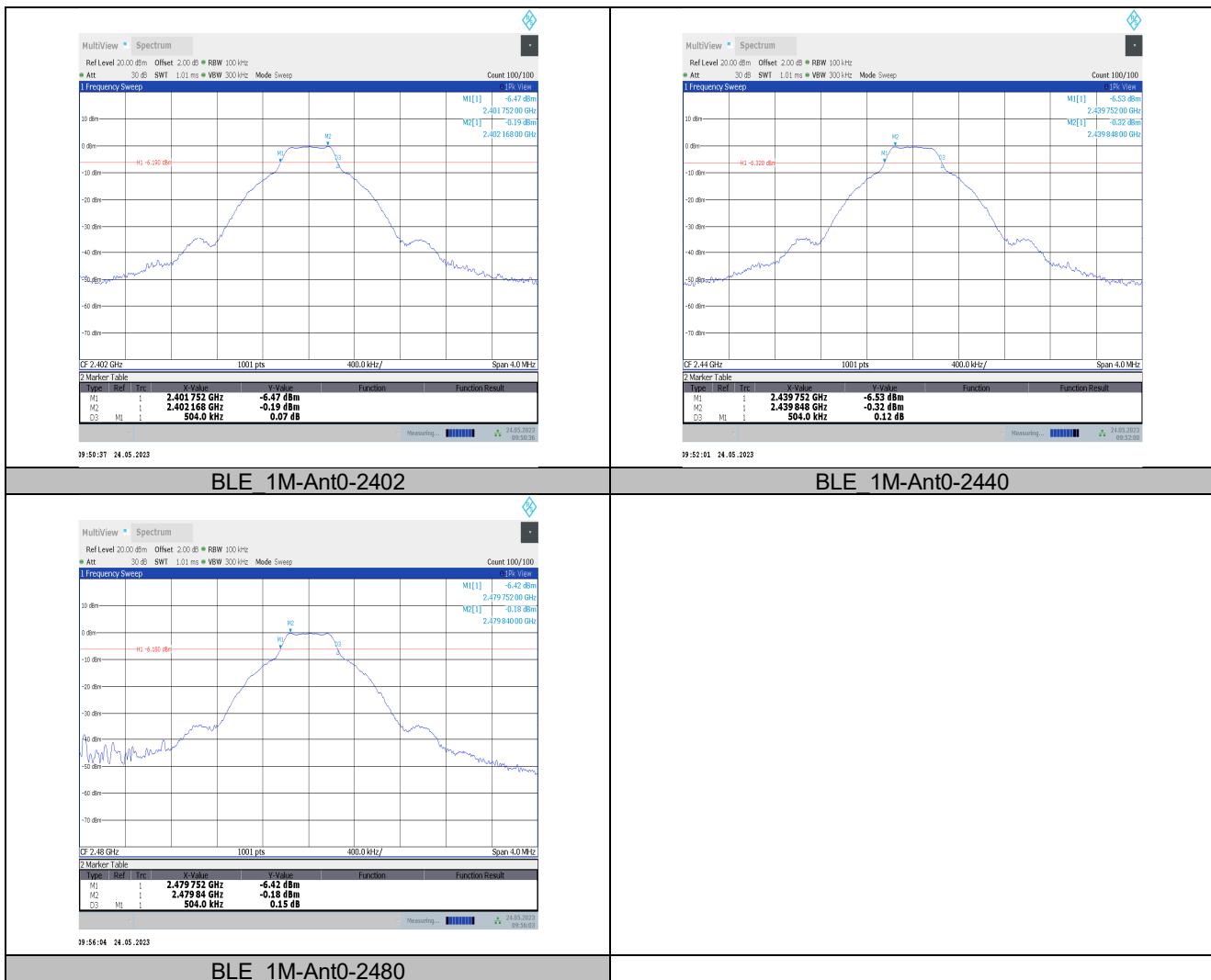
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Test Graphs



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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant0	2402	0.935	2401.5349	2402.4697	For Report Purpose
BLE_1M	Ant0	2440	0.959	2439.5240	2440.4826	
BLE_1M	Ant0	2480	0.956	2479.5239	2480.4801	



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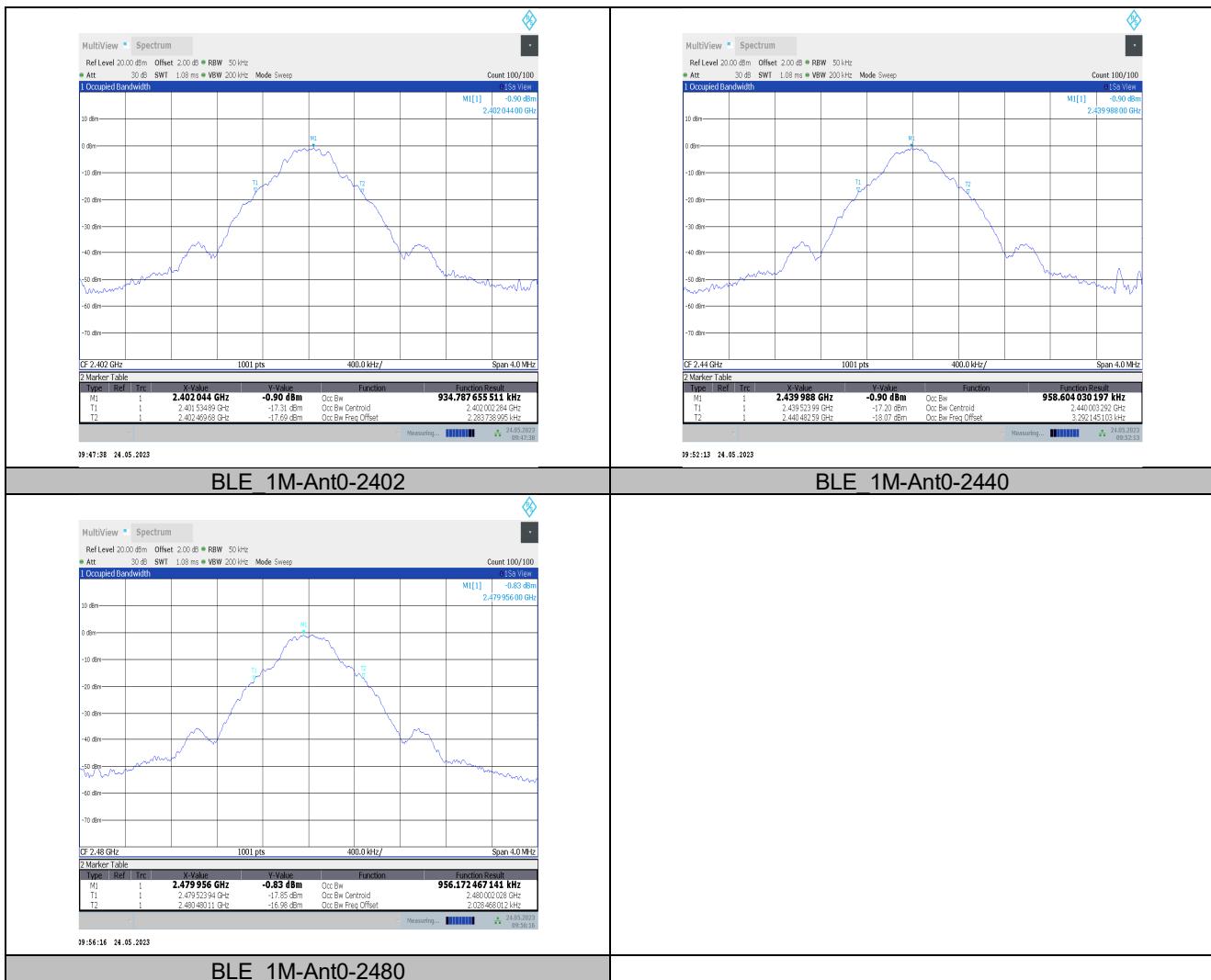
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Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant0	2402	0.15	≤30	PASS
BLE_1M	Ant0	2440	0.09	≤30	PASS
BLE_1M	Ant0	2480	0.13	≤30	PASS



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Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant0	2402	-10.05	≤8.00	PASS
BLE_1M	Ant0	2440	-10.56	≤8.00	PASS
BLE_1M	Ant0	2480	-9.45	≤8.00	PASS



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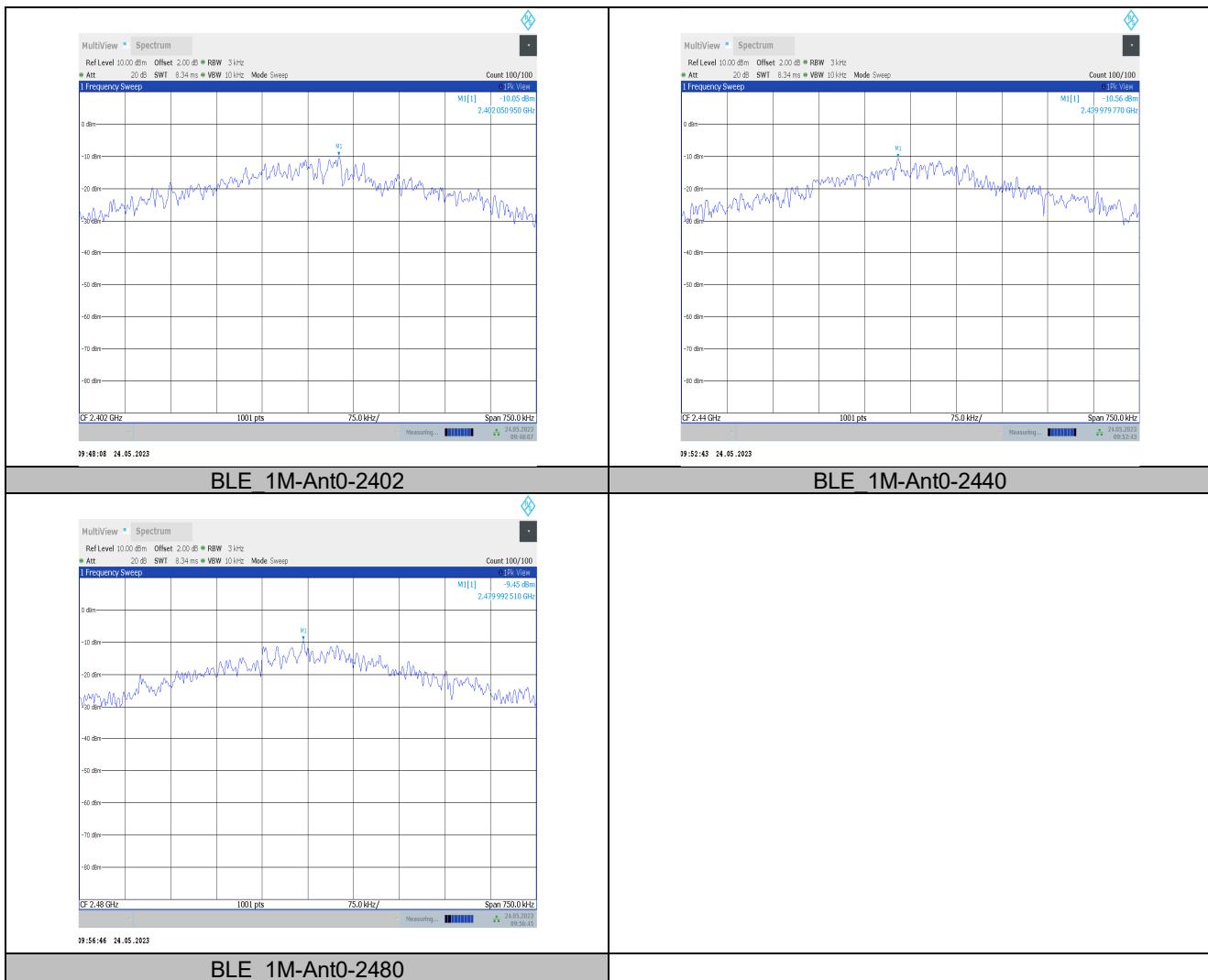
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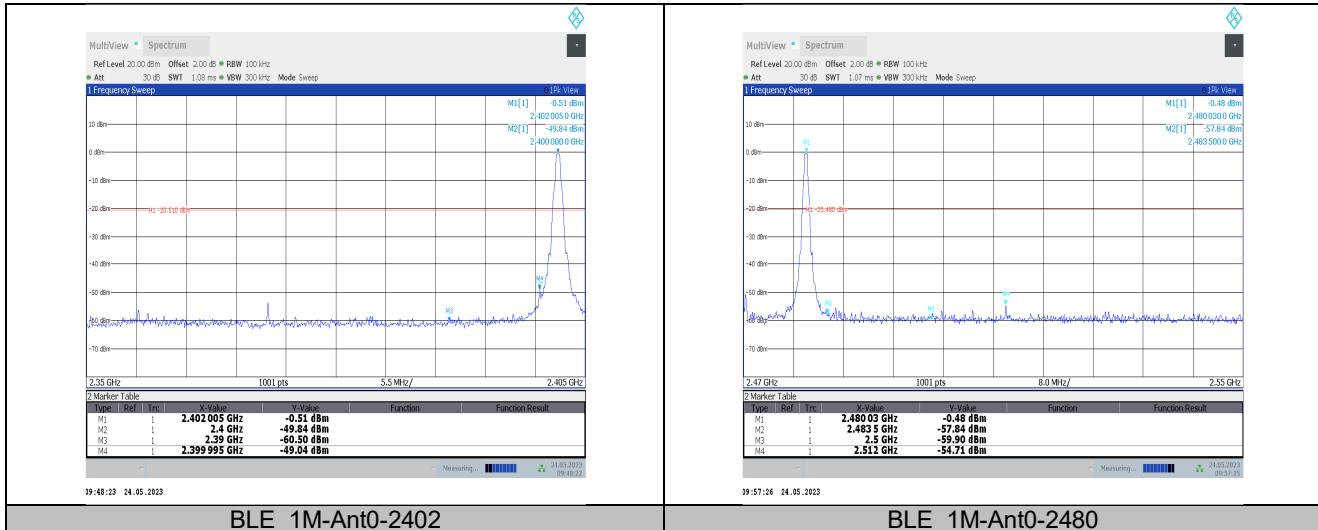


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Band edge measurements

Test Graphs



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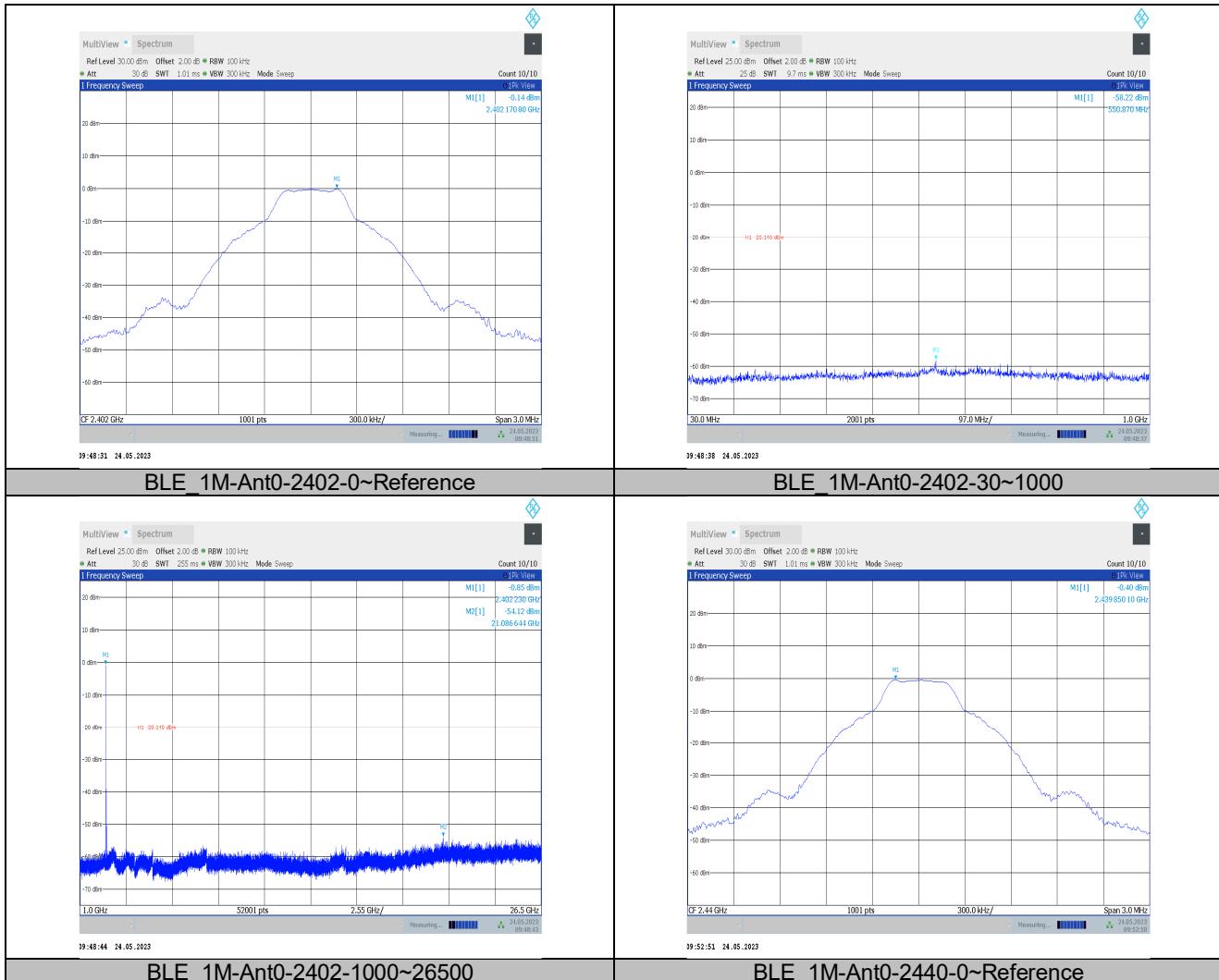


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Conducted Spurious Emission

Test Graphs



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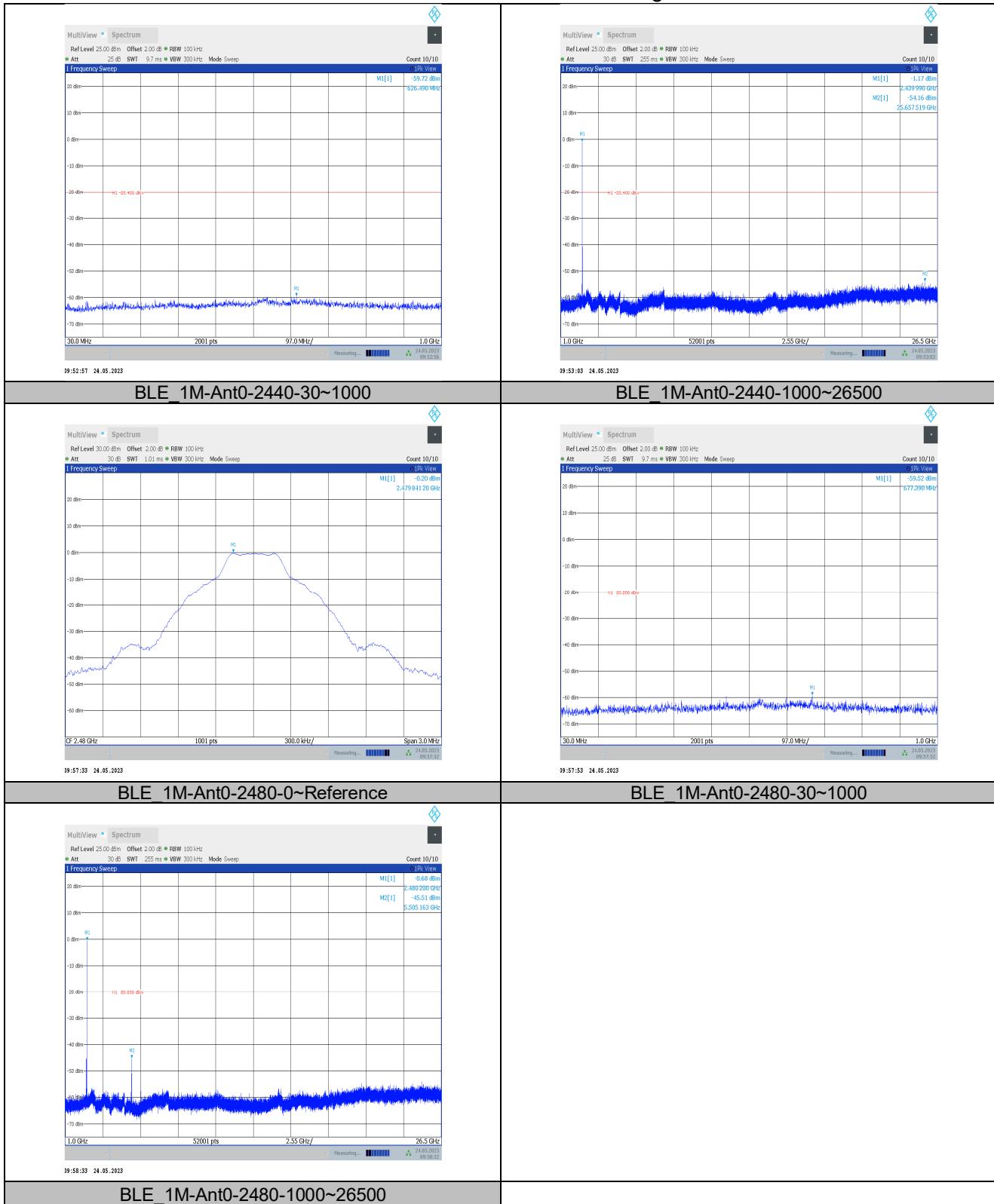
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Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant0	2402	0.00	0.00	100	0

Note:

Radiated Emission Average VBW Setting:

*Duty cycle > 98% VBW setting=10Hz

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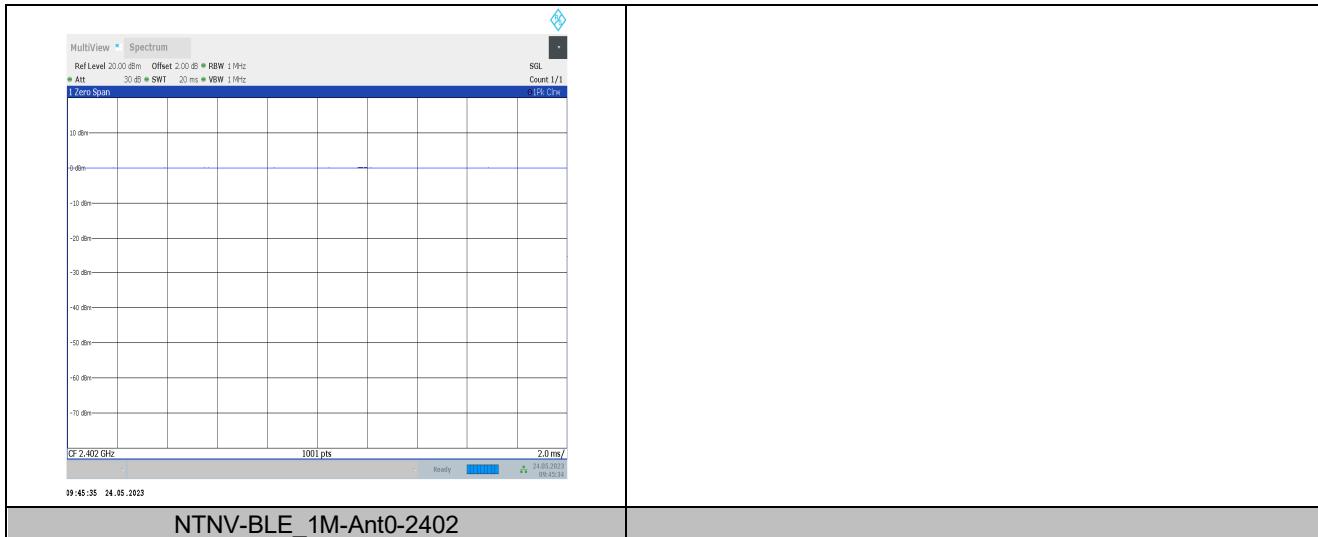
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Test Graphs



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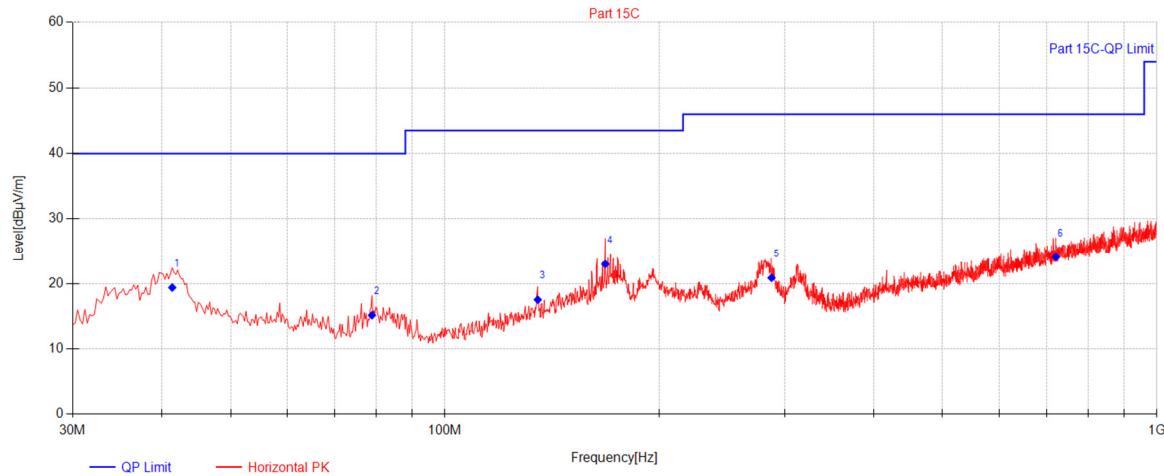
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 00



Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.3975	41.68	-36.25	13.95	19.38	40.00	20.62	114	122	Horizontal
2	78.985	41.43	-35.72	9.45	15.15	40.00	24.85	158	182	Horizontal
3	135.0025	39.96	-35.59	13.15	17.52	43.50	25.98	162	11	Horizontal
4	167.9825	43.81	-35.18	14.36	22.99	43.50	20.51	223	11	Horizontal
5	287.535	42.56	-34.17	12.49	20.88	46.00	25.12	291	191	Horizontal
6	721.3675	35.84	-31.67	19.91	24.08	46.00	21.92	187	360	Horizontal

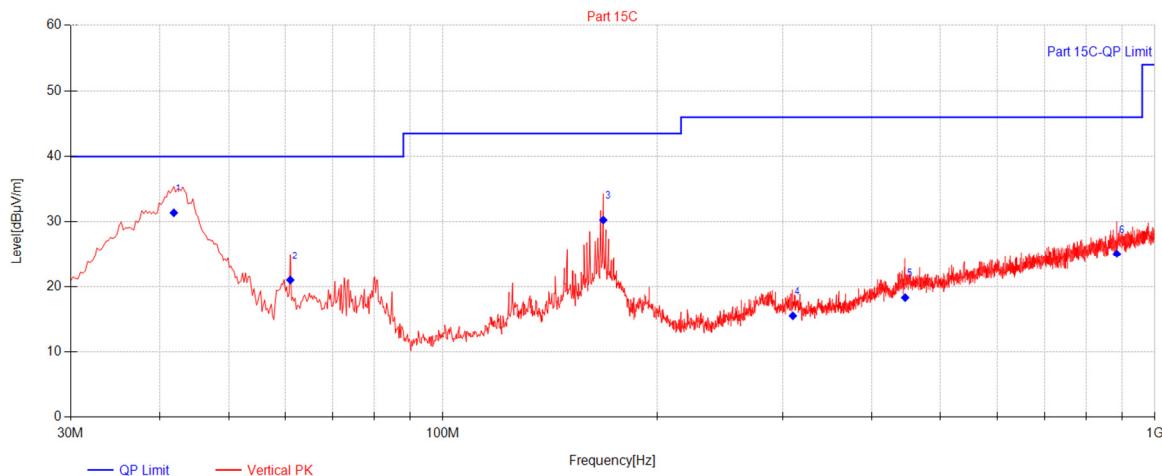
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1	41.8825	53.73	-36.25	13.91	31.40	40.00	8.60	118	118	Vertical
2	61.04	44.85	-36.41	12.55	20.99	40.00	19.01	154	188	Vertical
3	167.9825	51.11	-35.18	14.36	30.29	43.50	13.21	121	350	Vertical
4	310.0875	36.73	-34.23	13.01	15.51	46.00	30.49	26	200	Vertical
5	445.8875	35.63	-33.20	15.87	18.29	46.00	27.71	187	178	Vertical
6	884.085	34.36	-30.73	21.45	25.08	46.00	20.92	145	169	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Value} = \text{Reading(dBμV)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit(dBμV/m)} - \text{Value(dBμV/m)}$$
- 2) All channels have been tested, but only the worst case data displayed in this report.

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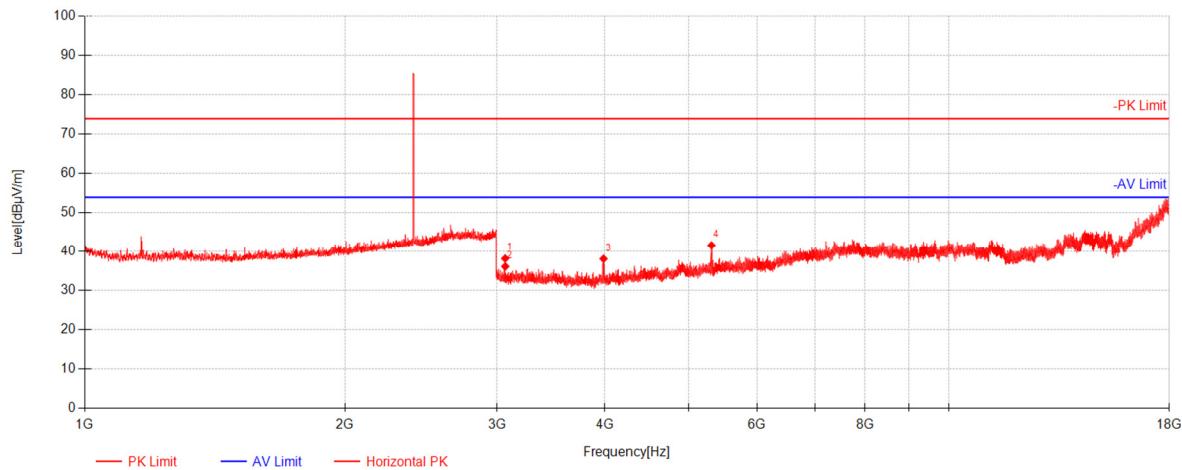


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Transmitter emission Above 1GHz

BLE 1M_Channel 00



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3066	55.93	28.34	-46.05	38.22	74.00	35.78	147	56	Horizontal
2	3066.5	53.88	28.34	-46.05	36.17	54.00	17.83	125	56	Horizontal
3	3985	55.13	29.09	-46.08	38.14	74.00	35.86	163	307	Horizontal
4	5313	54.65	32.15	-45.12	41.68	74.00	32.32	259	110	Horizontal

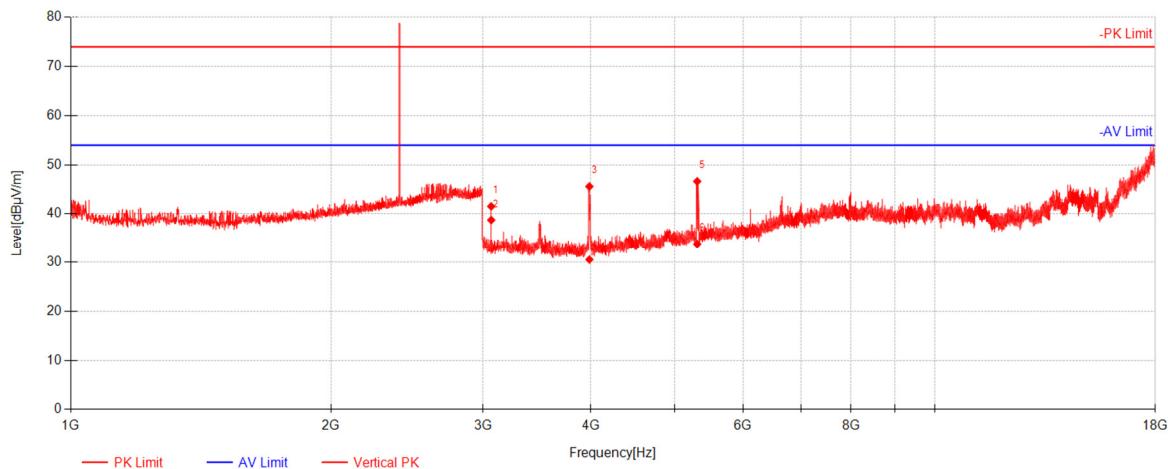
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BLE 1M_Channel 00

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3066	59.25	28.34	-46.05	41.54	74.00	32.46	248	55	Vertical	
2	3066.5	56.46	28.34	-46.05	38.75	54.00	15.25	175	55	Vertical	
3	3983.5	62.59	29.08	-46.08	45.59	74.00	28.41	126	196	Vertical	
4	3983.5	47.54	29.08	-46.08	30.54	54.00	23.46	146	138	Vertical	
5	5309	59.61	32.14	-45.11	46.64	74.00	27.36	193	195	Vertical	
6	5309.5	46.81	32.14	-45.11	33.84	54.00	20.16	251	195	Vertical	

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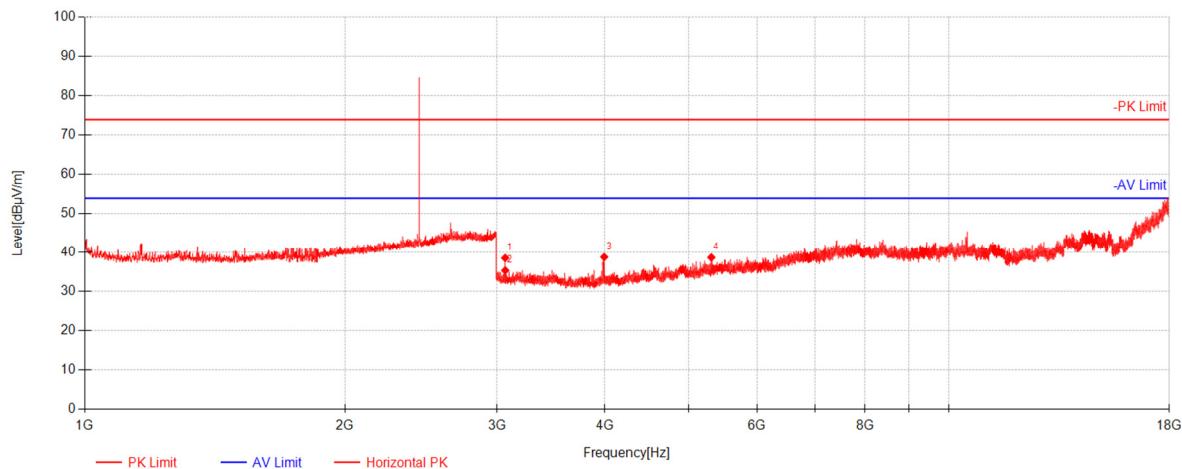
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BLE 1M_Channel 19



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1	3066	56.30	28.34	-46.05	38.59	74.00	35.41	126	82	Horizontal
2	3066.5	53.12	28.34	-46.05	35.41	54.00	18.59	154	54	Horizontal
3	3992	55.81	29.09	-46.06	38.84	74.00	35.16	175	109	Horizontal
4	5311	51.70	32.15	-45.11	38.73	74.00	35.27	136	225	Horizontal

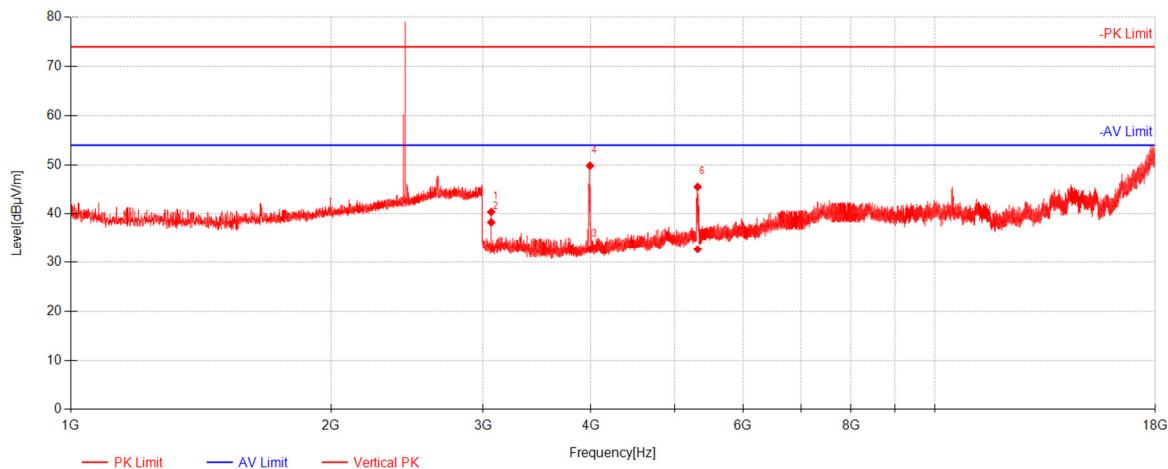
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BLE 1M_Channel 19

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1	3066	58.11	28.34	-46.05	40.40	74.00	33.60	154	54	Vertical
2	3066.5	55.99	28.34	-46.05	38.28	54.00	15.72	128	54	Vertical
3	3989.5	49.68	29.09	-46.07	32.70	54.00	21.30	176	4	Vertical
4	3989.5	66.80	29.09	-46.07	49.82	74.00	24.18	126	28	Vertical
5	5315	45.67	32.16	-45.12	32.70	54.00	21.30	236	4	Vertical
6	5315.5	58.48	32.16	-45.12	45.51	74.00	28.49	259	11	Vertical

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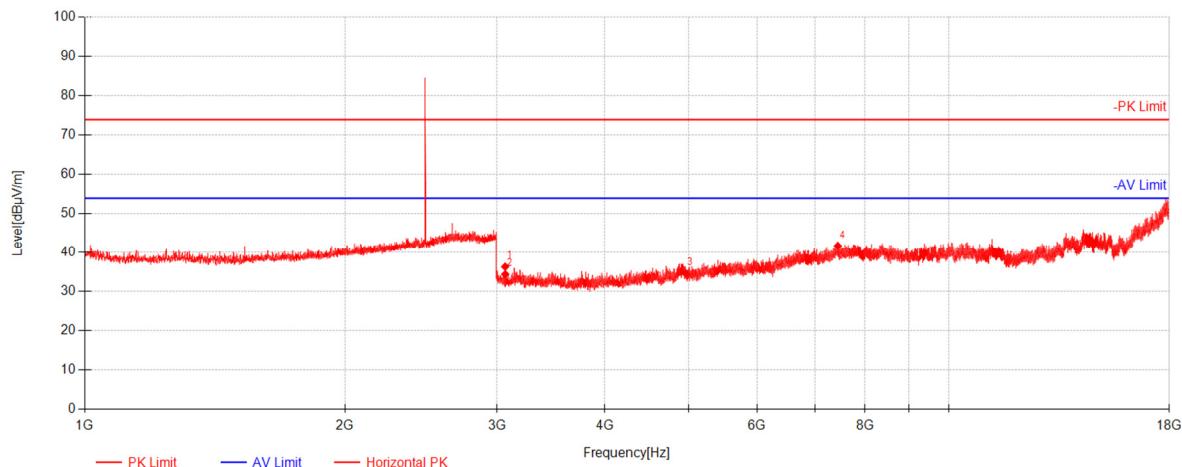
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BLE 1M_Channel 39



Final Data List

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1	3066	54.07	28.34	-46.05	36.36	74.00	37.64	213	28	Horizontal
2	3066.5	52.13	28.34	-46.05	34.42	54.00	19.58	302	28	Horizontal
3	4960.0000	48.93	31.31	-45.60	34.65	74.00	39.35	159	252	Horizontal
4	7440.0000	48.64	36.43	-43.30	41.77	74.00	32.23	176	308	Horizontal

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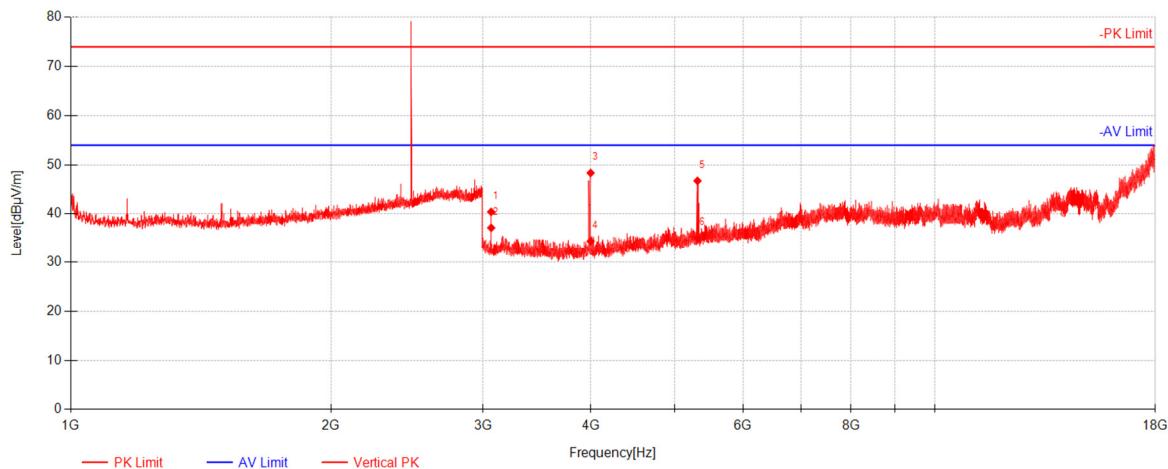
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BLE 1M_Channel 39



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3066	58.14	28.34	-46.05	40.43	74.00	33.57	248	55	Vertical
2	3066.5	54.88	28.34	-46.05	37.17	54.00	16.83	175	55	Vertical
3	3996.5	65.30	29.10	-46.05	48.35	74.00	25.65	146	195	Vertical
4	3997	51.39	29.10	-46.05	34.44	54.00	19.56	195	169	Vertical
5	5313	59.71	32.15	-45.12	46.74	74.00	27.26	126	360	Vertical
6	5313.5	48.04	32.15	-45.12	35.07	54.00	18.93	135	360	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading(dBµV)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit(dBµV/m)} - \text{Level(dBµV/m)}$$
- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"

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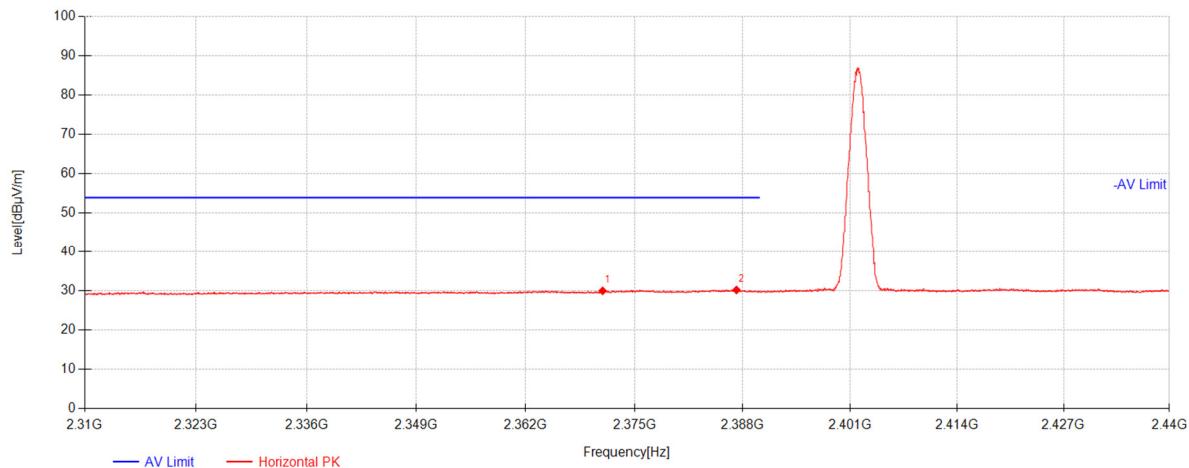


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Restricted bands around fundamental frequency

BLE 1M_Channel 00



Final Data List											
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2371.1867	26.66	26.94	-23.57	30.03	54.00	23.97	156	321	Horizontal	
2	2387.2633	26.85	26.98	-23.57	30.26	54.00	23.74	156	321	Horizontal	



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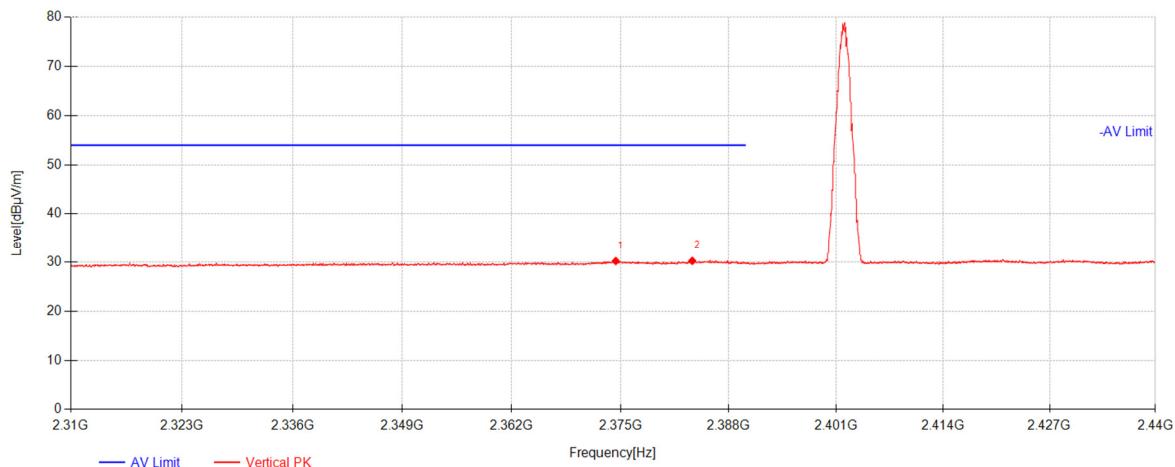
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BLE 1M_Channel 00

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.4367	26.85	26.95	-23.57	30.23	54.00	23.77	177	213	Vertical
2	2383.6233	26.86	26.97	-23.57	30.26	54.00	23.74	177	213	Vertical



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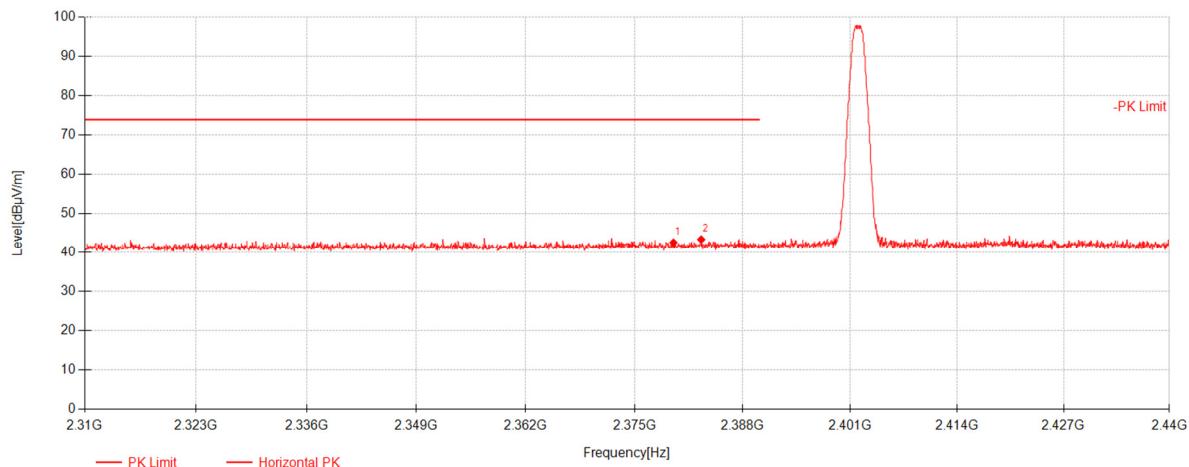
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BLE 1M_Channel 00

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.68	39.28	26.96	-23.57	42.67	74.00	31.33	156	321	Horizontal
2	2383.0167	40.06	26.97	-23.57	43.46	74.00	30.54	156	321	Horizontal



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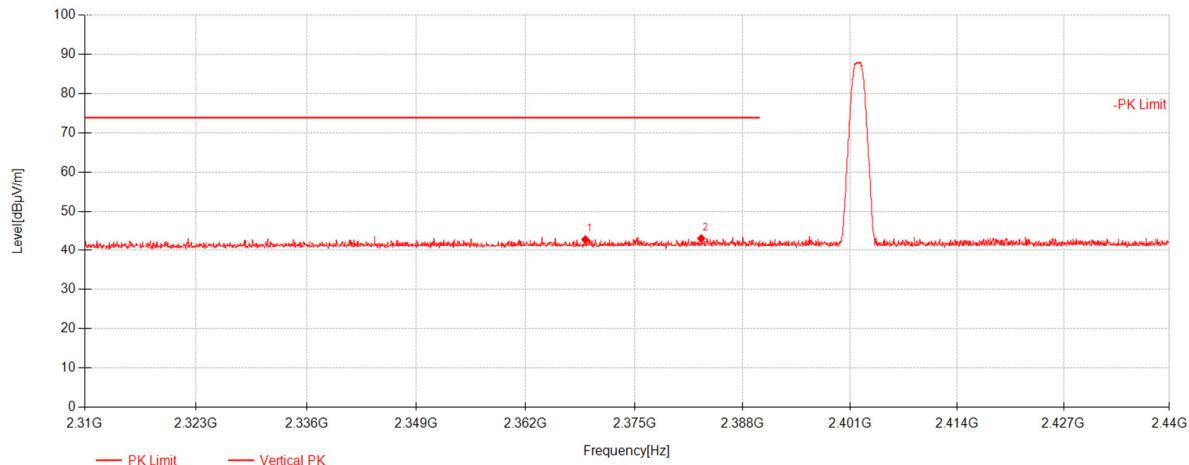
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BLE 1M_Channel 00



Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.1067	39.62	26.93	-23.57	42.98	74.00	31.02	177	213	Vertical
2	2383.0167	39.86	26.97	-23.57	43.26	74.00	30.74	177	213	Vertical

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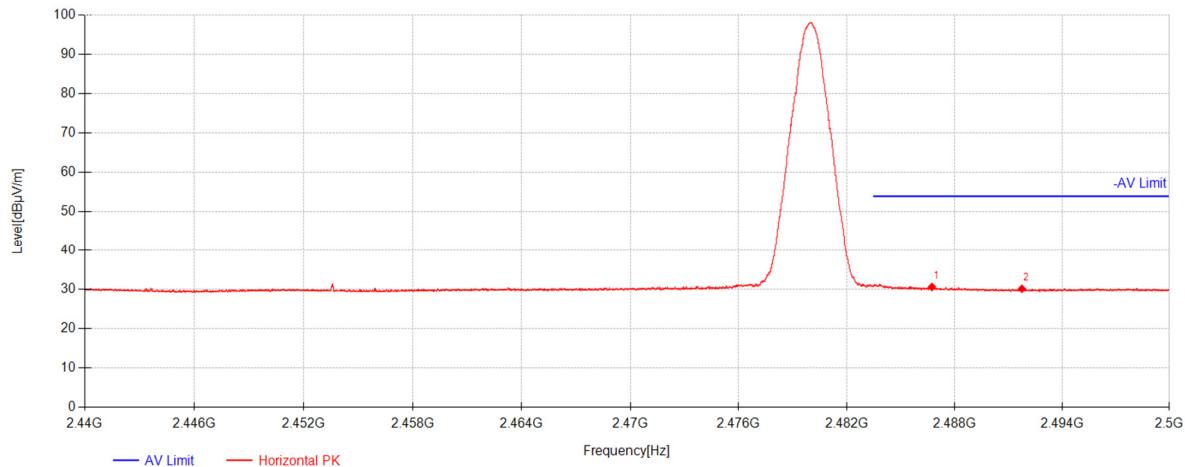
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BLE 1M_Channel 39



Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2486.74	26.96	27.26	-23.54	30.68	54.00	23.32	188	212	Horizontal	
2	2491.7575	26.47	27.28	-23.54	30.20	54.00	23.80	188	212	Horizontal	



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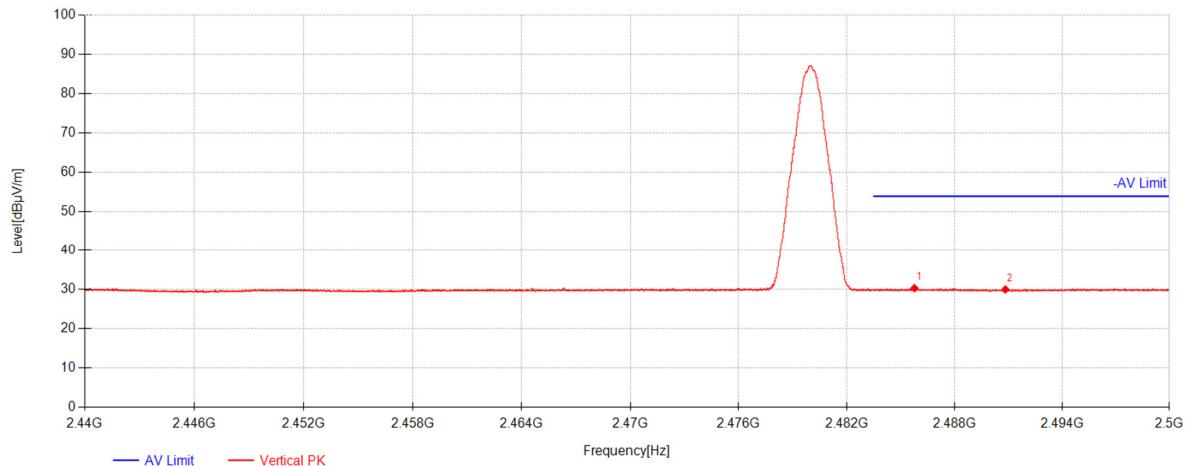
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BLE 1M_Channel 39

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.765	26.63	27.26	-23.54	30.35	54.00	23.65	123	182	Vertical
2	2490.835	26.32	27.27	-23.54	30.05	54.00	23.95	123	182	Vertical



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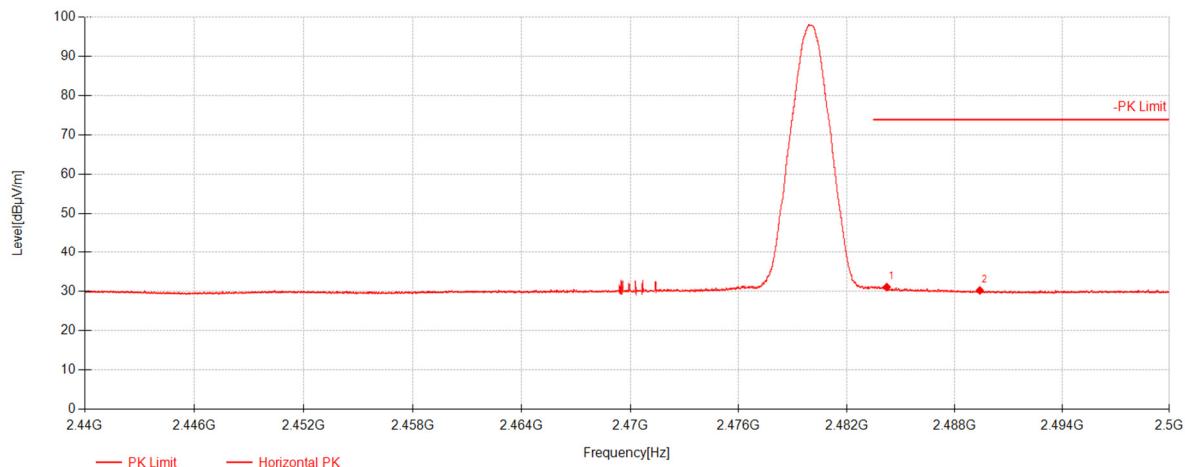
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BLE 1M_Channel 39

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.2275	27.44	27.26	-23.54	31.15	74.00	42.85	188	212	Horizontal
2	2489.41	26.57	27.27	-23.54	30.30	74.00	43.70	188	212	Horizontal



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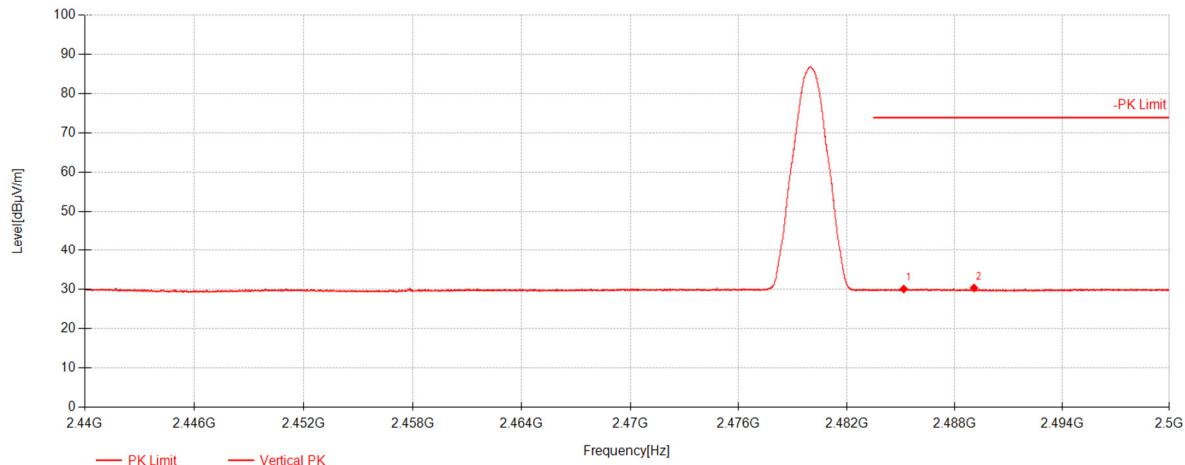
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BLE 1M_Channel 39



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.1725	26.44	27.26	-23.54	30.15	74.00	43.85	123	182	Vertical
2	2489.0875	26.69	27.27	-23.54	30.42	74.00	43.58	123	182	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading(dBµV)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit(dBµV/m)} - \text{Level(dBµV/m)}$$
- 2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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