

Report No.: SEWM2307000261RG04

Rev.: 01

Page: 1 of 74

# TEST REPORT

**Application No.:** SEWM2307000261RG  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** 2312DRA50G  
**Trade Mark:** Redmi  
**FCC ID:** 2AFZZRA50G  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2023/07/31  
**Date of Test:** 2023/08/05 to 2023/08/22  
**Date of Issue:** 2023/08/25

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

Authorized Signature:

Well Wei

Well Wei  
Wireless Laboratory Manager

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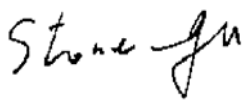
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 2 of 74

# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/08/25		Original

Prepared By	
	(Ives Cheng) / Test Engineer
Checked By	
	(Stone Gu) / Reviewer



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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 3 of 74

## 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
Duty cycle	--	ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose
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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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 4 of 74

## Contents

1	Version .....	2
2	Test Summary .....	3
3	General Information .....	5
3.1	Details of Client .....	5
3.2	Test Location .....	5
3.3	Test Facility .....	5
3.4	General Description of EUT .....	6
3.5	Test Environment .....	8
3.6	Description of Support Units .....	8
4	Test results and Measurement Data .....	9
4.1	Antenna Requirement .....	9
4.2	AC Power Line Conducted Emissions .....	10
4.3	Duty Cycle .....	16
4.4	Conducted Output Power .....	17
4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth .....	18
4.6	Power Spectral Density .....	19
4.7	Band-edge for RF Conducted Emissions .....	20
4.8	RF Conducted Spurious Emissions .....	21
4.9	Radiated Spurious Emissions .....	22
4.10	Restricted bands around fundamental frequency .....	25
5	Measurement Uncertainty (95% confidence levels, k=2) .....	27
6	Equipment List .....	28
7	Photographs - Setup Photos .....	30



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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 5 of 74

### 3 General Information

#### 3.1 Details of Client

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Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 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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Report No.: SEWM2307000261RG04  
 Rev.: 01  
 Page: 6 of 74

### 3.4 General Description of EUT

EUT Description:	Mobile Phone	
Model No.:	2312DRA50G	
Trade Mark:	Redmi	
Hardware Version:	P2	
Software Version:	MIUI 14	
Power Supply:	Lithium Battery (3.91V)	
IMEI:	RF Conducted	860949060049381
	RSE & AC power line	IMEI1: 860949060030241 IMEI2: 860949060030258
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = “Operating Frequency” in MHz, -N = “Channel Number” with the range from 0 to 39.	
Bluetooth version:	Bluetooth V5.2	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type*:	<input checked="" type="checkbox"/> Provided by client	
	1M PHY	2M PHY
Antenna Type:	IFA Antenna	
Antenna Gain:	-3.1dBi (Ant10)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. 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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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 7 of 74

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
<b>BLE 1M:</b>	
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz
<b>BLE 2M:</b>	
The Lowest channel(CH1)	2404MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH38)	2478MHz



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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 8 of 74

### 3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(Vdc)
NTNV	22~23	3.91
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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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 9 of 74

## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(b)
<p>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.</p> <p>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.</p>	
<p>The antenna is IFA Antenna and no consideration of replacement. The best case gain of the antenna is -3.1dBi (Ant10). *</p> <p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <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></p>	



Report No.: SEWM2307000261RG04

Rev.: 01

Page: 10 of 74

## 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"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω 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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>		



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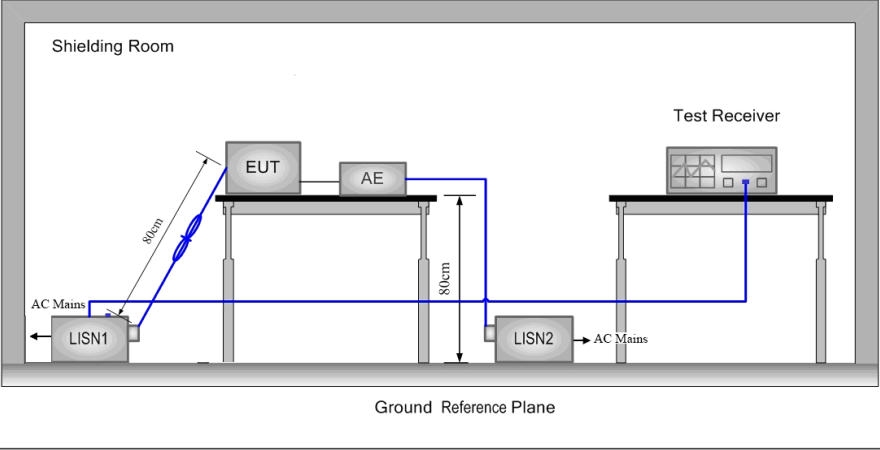
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 11 of 74

Test Setup:	
Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Charge +Transmitting mode.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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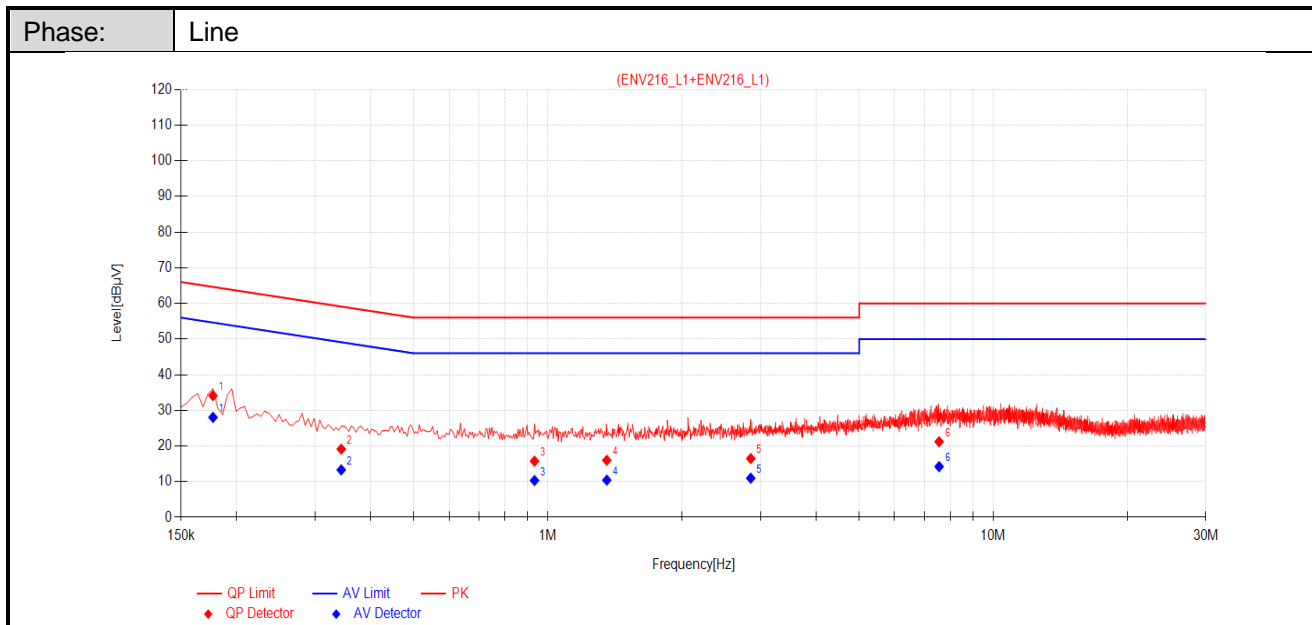
Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 12 of 74

### 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.

### BLE 1M:



Data List											
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	0.1770	11.73	22.39	34.12	64.63	30.51	16.30	28.03	54.63	26.60	PASS
2	0.3435	11.62	7.50	19.12	59.12	40.00	1.68	13.30	49.12	35.82	PASS
3	0.9330	11.71	4.05	15.76	56.00	40.24	-1.38	10.33	46.00	35.67	PASS
4	1.3560	11.73	4.27	16.00	56.00	40.00	-1.30	10.43	46.00	35.57	PASS
5	2.8545	11.74	4.74	16.48	56.00	39.52	-0.77	10.97	46.00	35.03	PASS
6	7.5570	11.89	9.32	21.21	60.00	38.79	2.33	14.22	50.00	35.78	PASS

### Remark:

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



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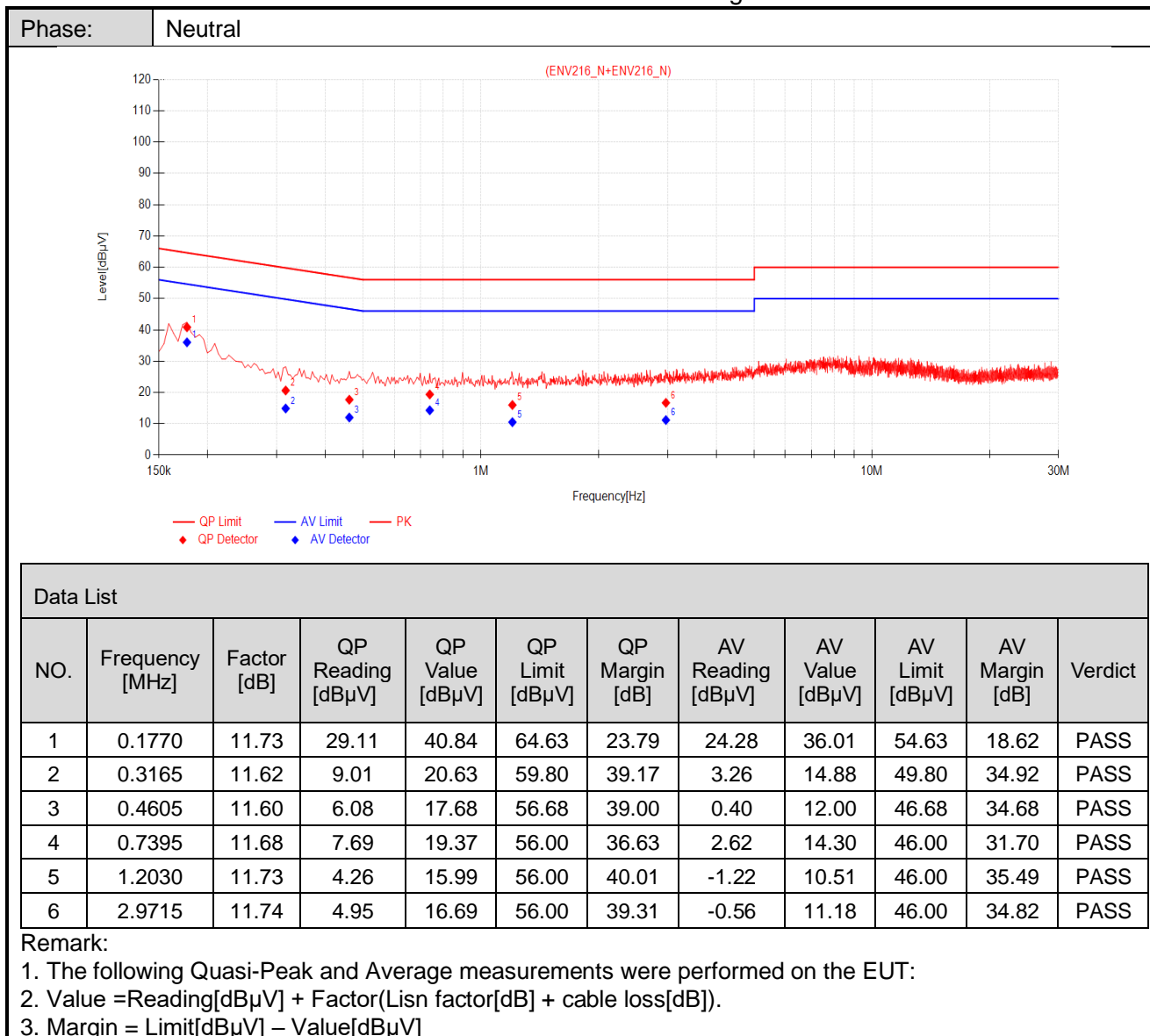
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 13 of 74



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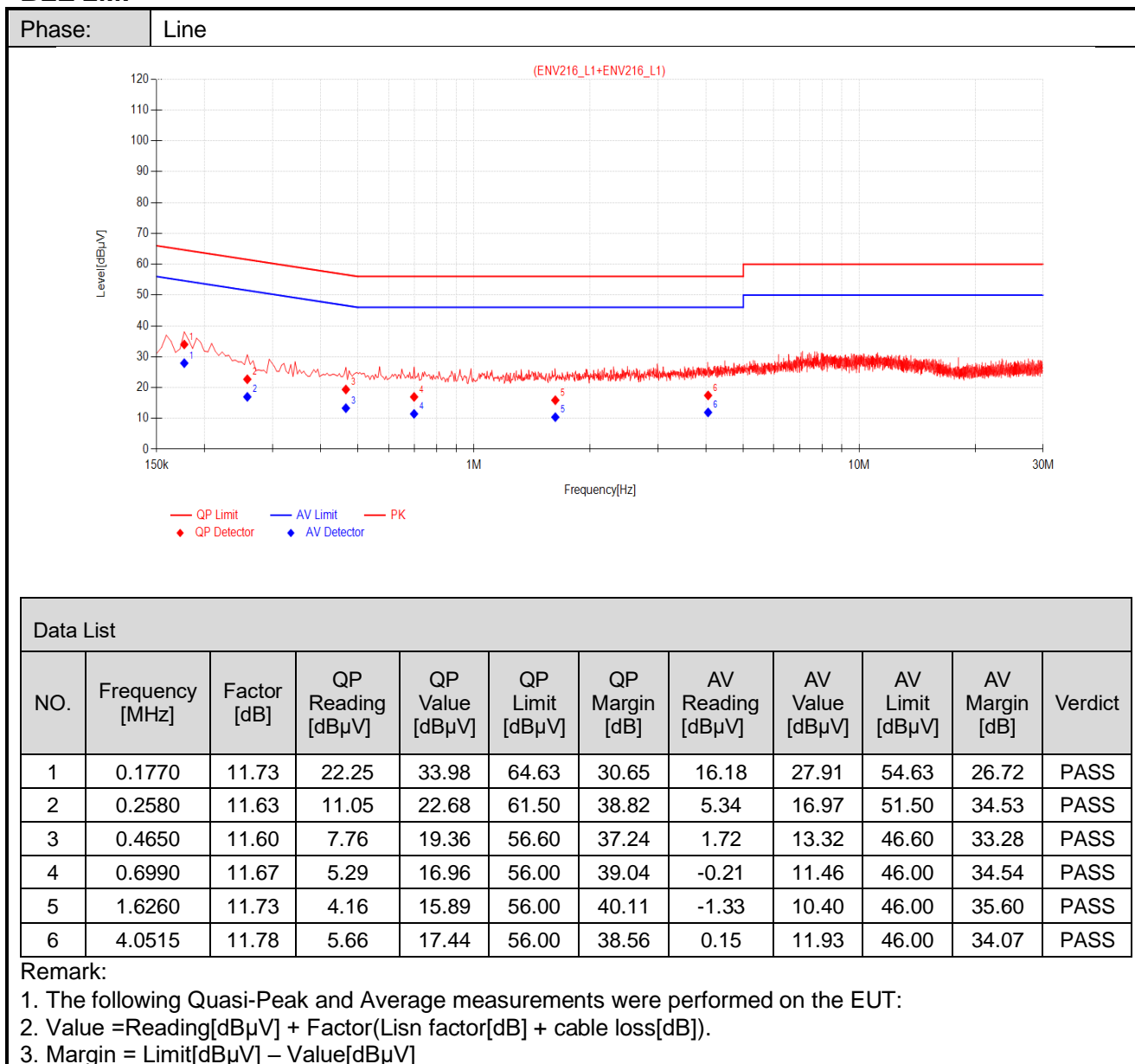


Report No.: SEWM2307000261RG04

Rev.: 01

Page: 14 of 74

### BLE 2M:

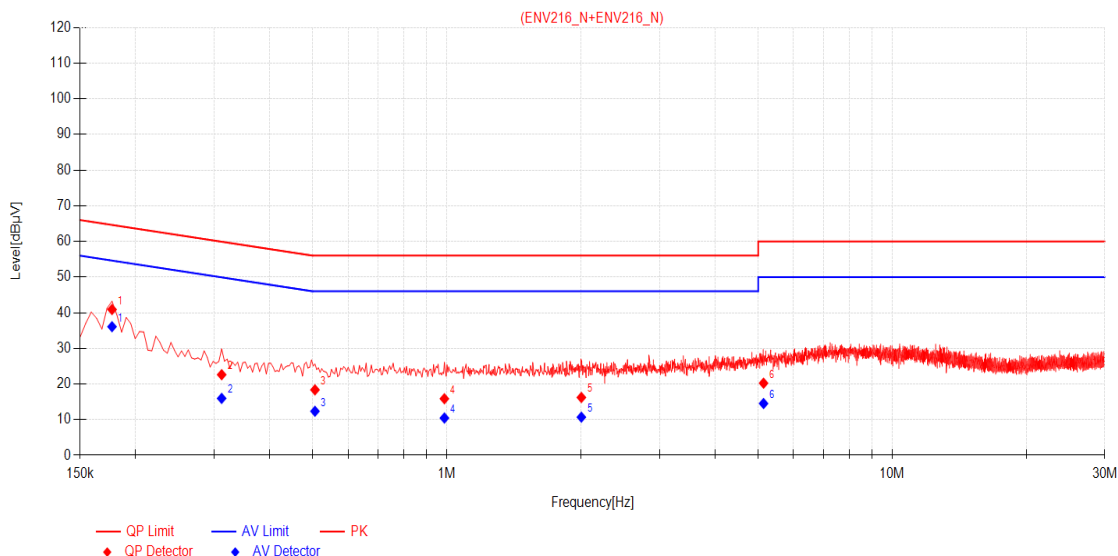


Report No.: SEWM2307000261RG04

Rev.: 01

Page: 15 of 74

Phase: Neutral



### Data List

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	0.1770	11.73	29.18	40.91	64.63	23.72	24.35	36.08	54.63	18.55	PASS
2	0.3120	11.63	10.99	22.62	59.92	37.30	4.34	15.97	49.92	33.95	PASS
3	0.5055	11.60	6.77	18.37	56.00	37.63	0.76	12.36	46.00	33.64	PASS
4	0.9870	11.73	4.14	15.87	56.00	40.13	-1.27	10.46	46.00	35.54	PASS
5	2.0040	11.73	4.49	16.22	56.00	39.78	-1.03	10.70	46.00	35.30	PASS
6	5.1405	11.82	8.41	20.23	60.00	39.77	2.71	14.53	50.00	35.47	PASS

### Remark:

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

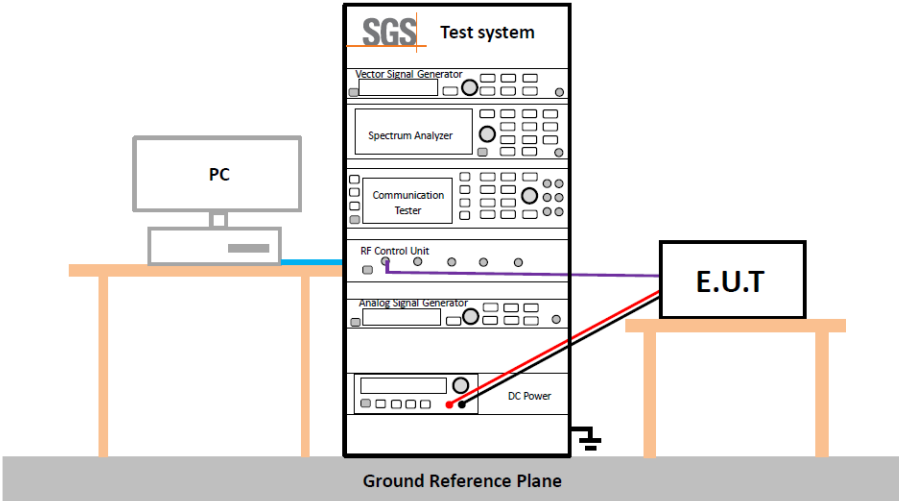


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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 16 of 74

### 4.3 Duty Cycle

Test Requirement:	ANSI C63.10-2020 Section 11.6
Test Method:	ANSI C63.10-2020 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	



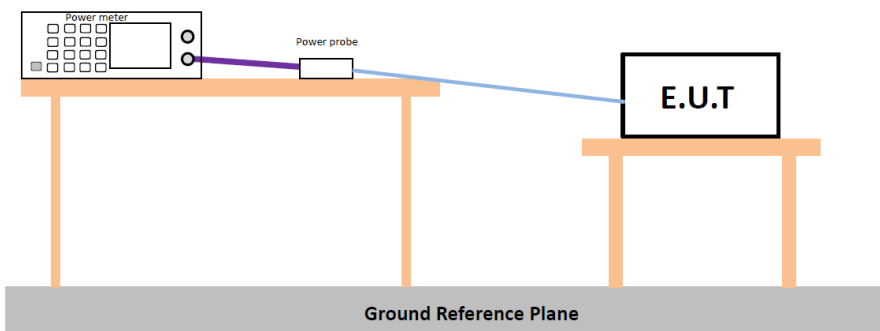
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 17 of 74

#### 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: <b>Appendix</b>	



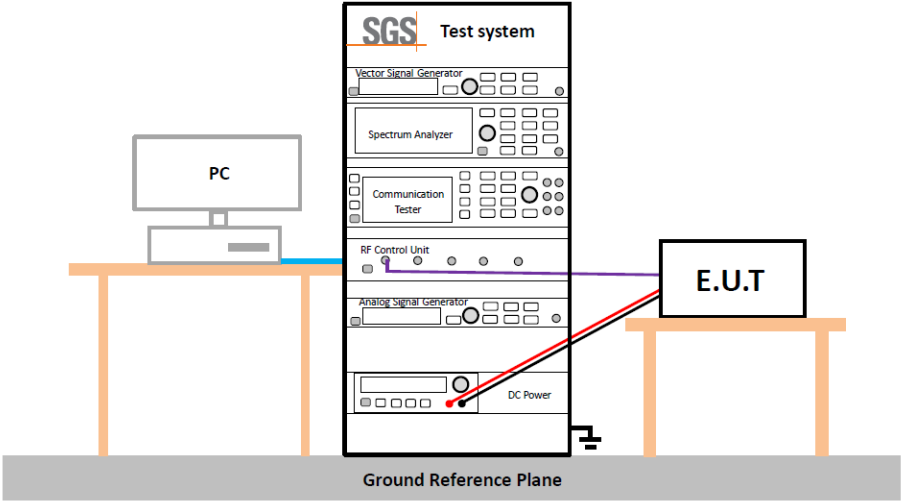
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 18 of 74

#### 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 for DTS Bandwidth
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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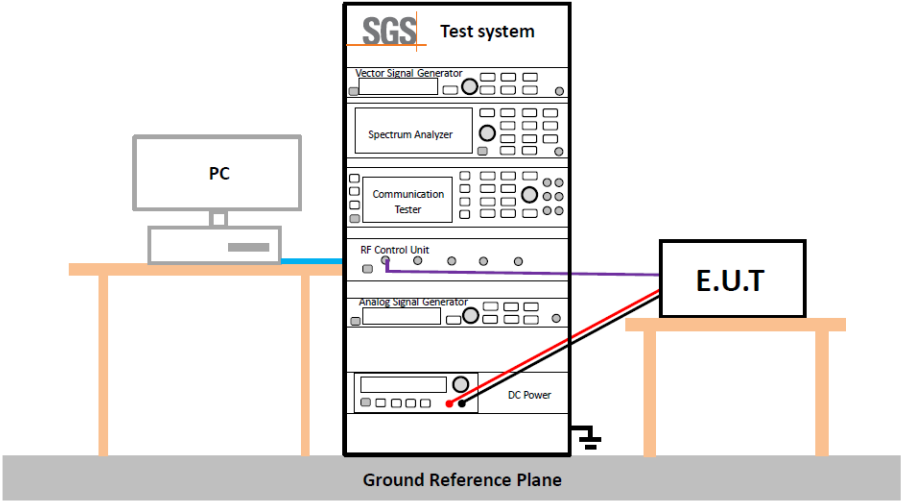
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 19 of 74

## 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: <b>Appendix</b>	



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Rev.: 01  
Page: 20 of 74

## 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: <b>Appendix</b>	



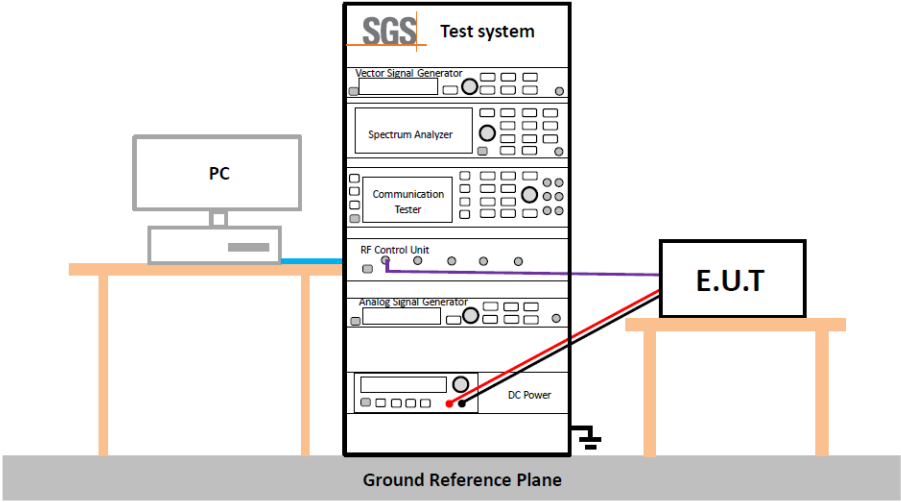
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 21 of 74

## 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: <b>Appendix</b>	



Report No.: SEWM2307000261RG04

Rev.: 01

Page: 22 of 74

### 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:

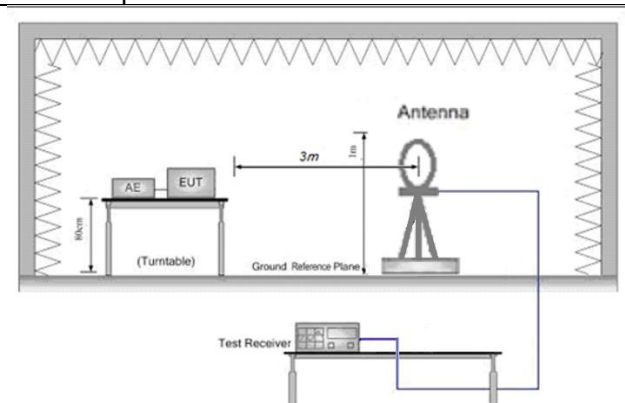


Figure 1. Below 30MHz

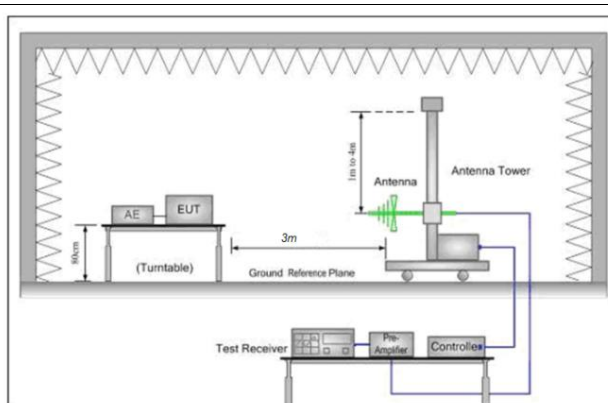


Figure 2. 30MHz to 1GHz

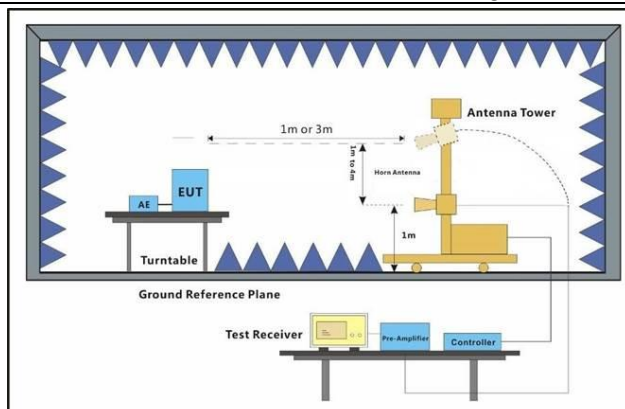


Figure 3. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>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.</li> <li>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 &gt;18GHz).</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Test the EUT in the lowest channel, the middle channel, the Highest channel.</li> <li>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.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> <li>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</li> <li>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.</li> <li>At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \log(3/1) = 9.54 \text{ dB}</math>.</li> </ol>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>RBW = 10 kHz</li> <li>VBW = 30 kHz</li> <li>Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>Trace mode = max hold</li> </ul>



Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 24 of 74

	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 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.</li> </ul>
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 all channels, but 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: <b>Appendix</b>	



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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 25 of 74

### 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:

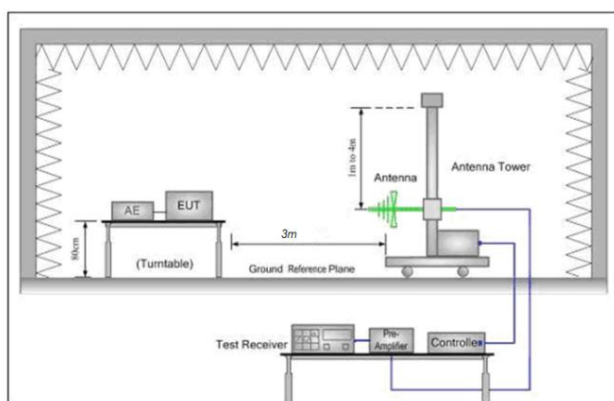


Figure 1. 30MHz to 1GHz

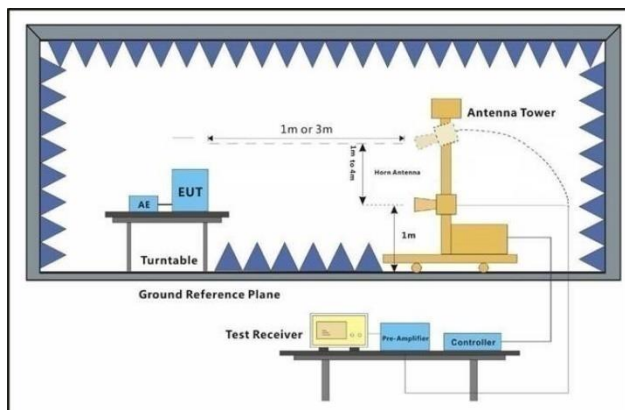


Figure 2. Above 1 GHz

#### Test Procedure:

- 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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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 26 of 74

	<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 X 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"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 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.</li> </ul>
Exploratory Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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Report No.: SEWM2307000261RG04  
 Rev.: 01  
 Page: 27 of 74

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

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

Remark:  
 The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (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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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 28 of 74

## 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
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	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
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	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
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21

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



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Rev.: 01

Page: 29 of 74

RSE Test 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	2023/05/13	2024/05/12
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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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 30 of 74

## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 31 of 74

# Appendix



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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 32 of 74

## DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant10	2402	0.712	2401.640	2402.352	≥0.5	PASS
BLE_1M	Ant10	2440	0.668	2439.664	2440.332	≥0.5	PASS
BLE_1M	Ant10	2480	0.676	2479.656	2480.332	≥0.5	PASS
BLE_2M	Ant10	2404	1.152	2403.432	2404.584	≥0.5	PASS
BLE_2M	Ant10	2440	1.156	2439.436	2440.592	≥0.5	PASS
BLE_2M	Ant10	2478	1.120	2477.456	2478.576	≥0.5	PASS



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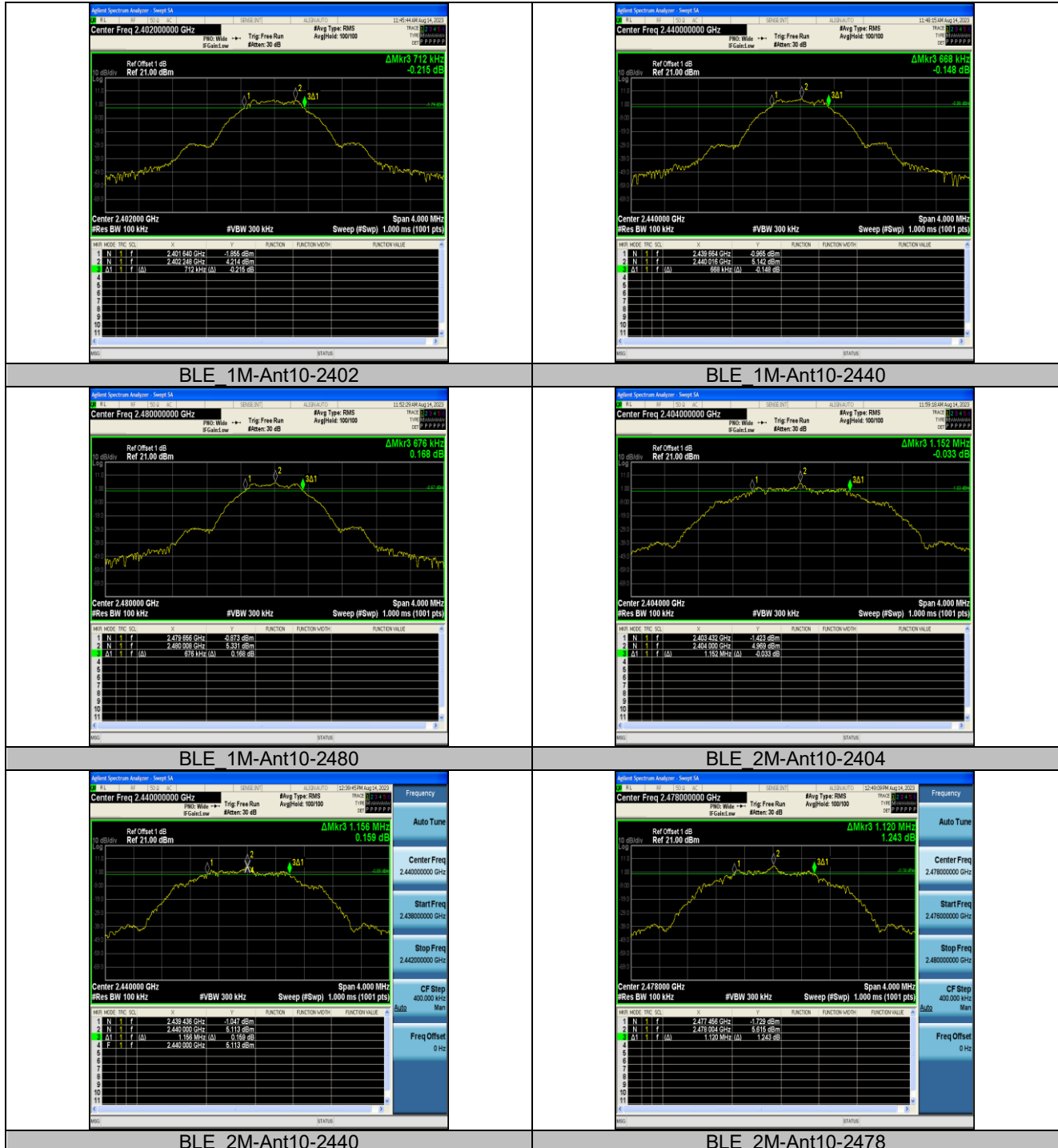
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 33 of 74

### Test Graphs



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Report No.: SEWM2307000261RG04  
 Rev.: 01  
 Page: 34 of 74

## Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE 1M	Ant10	2402	1.0192	2401.4970	2402.5162	For Report Purpose
BLE 1M	Ant10	2440	1.0181	2439.4944	2440.5125	
BLE 1M	Ant10	2480	1.0166	2479.4980	2480.5146	
BLE 2M	Ant10	2404	2.0037	2403.0178	2405.0215	
BLE 2M	Ant10	2440	2.0050	2439.0186	2441.0236	
BLE 2M	Ant10	2478	2.0067	2477.0111	2479.0178	



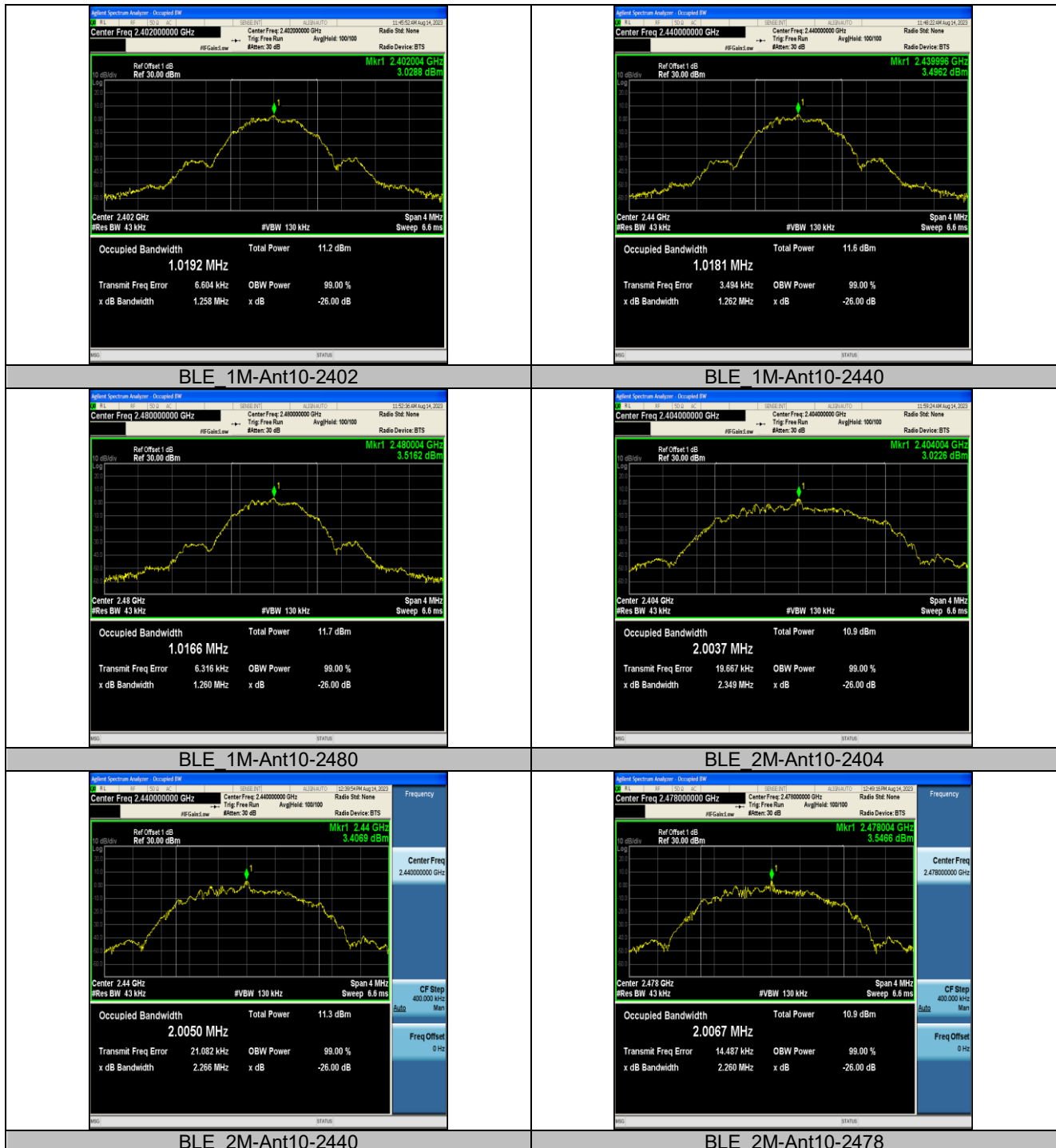
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Page: 35 of 74

### Test Graphs



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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 36 of 74

## Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant10	2402	5.32	≤30	PASS
BLE_1M	Ant10	2440	5.89	≤30	PASS
BLE_1M	Ant10	2480	5.64	≤30	PASS
BLE_2M	Ant10	2404	5.51	≤30	PASS
BLE_2M	Ant10	2440	6.03	≤30	PASS
BLE_2M	Ant10	2478	5.89	≤30	PASS



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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 37 of 74

## Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant10	2402	-9.63	≤8.00	PASS
BLE_1M	Ant10	2440	-9.13	≤8.00	PASS
BLE_1M	Ant10	2480	-9.05	≤8.00	PASS
BLE_2M	Ant10	2404	-12.24	≤8.00	PASS
BLE_2M	Ant10	2440	-11.82	≤8.00	PASS
BLE_2M	Ant10	2478	-11.67	≤8.00	PASS



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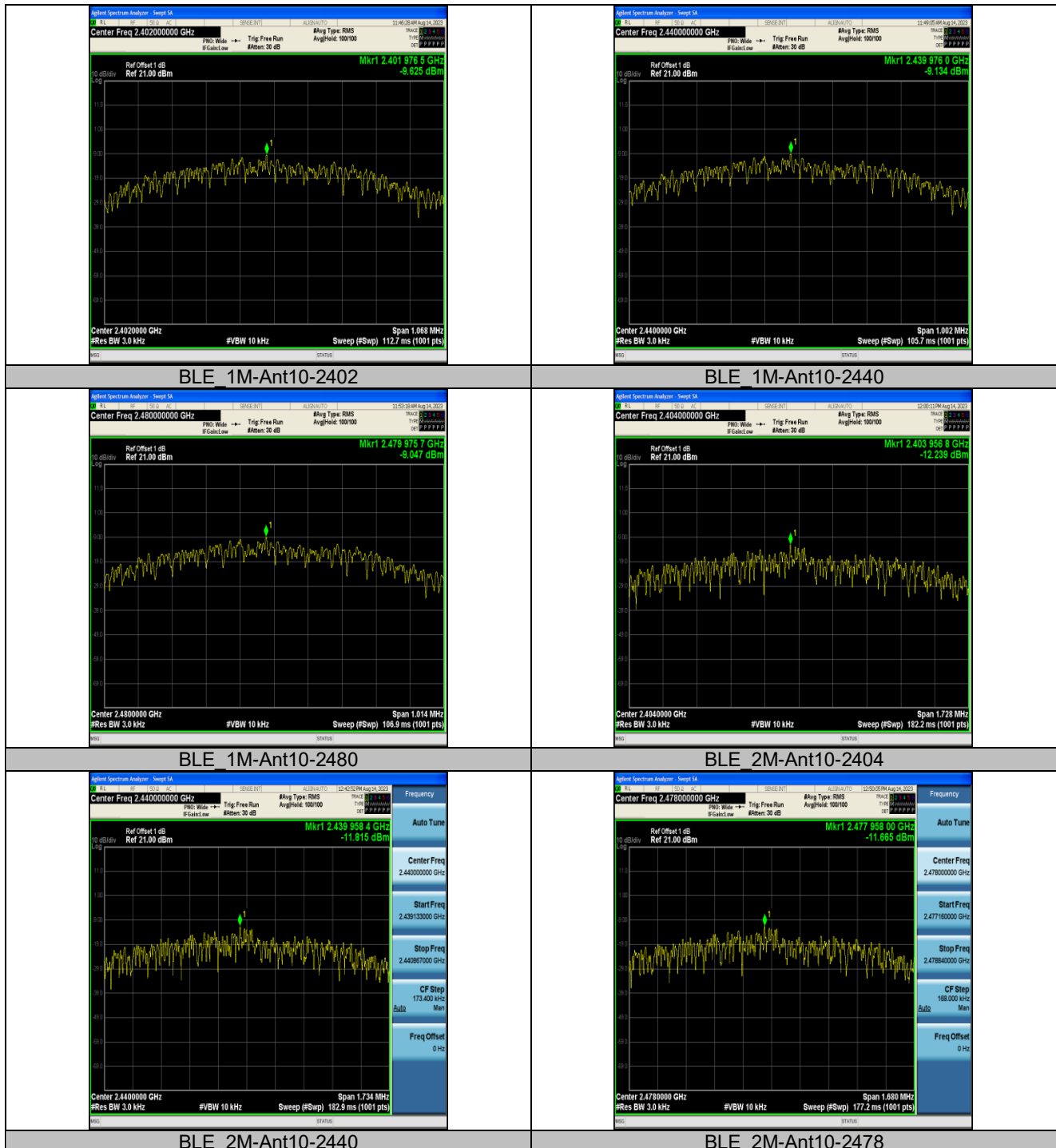
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Rev.: 01

Page: 38 of 74

### Test Graphs



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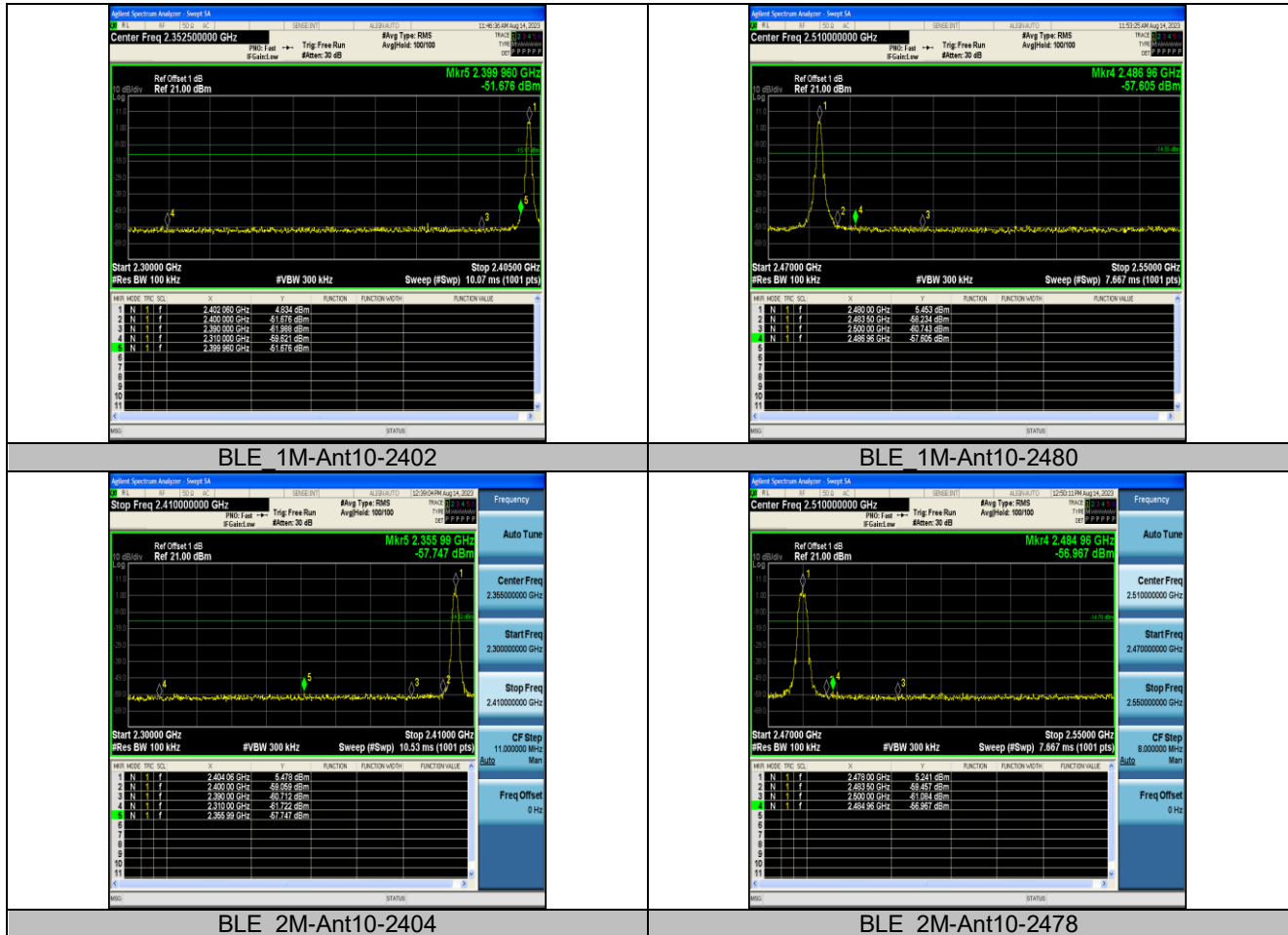


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### Band edge measurements Test Graphs



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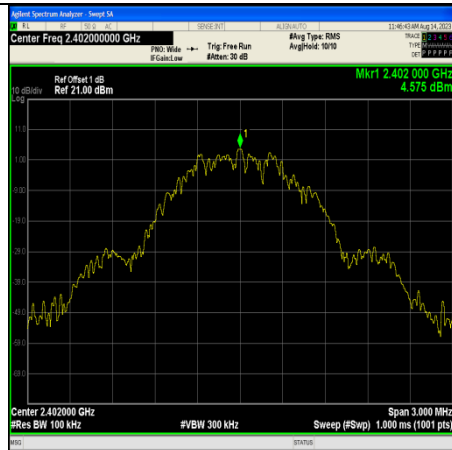
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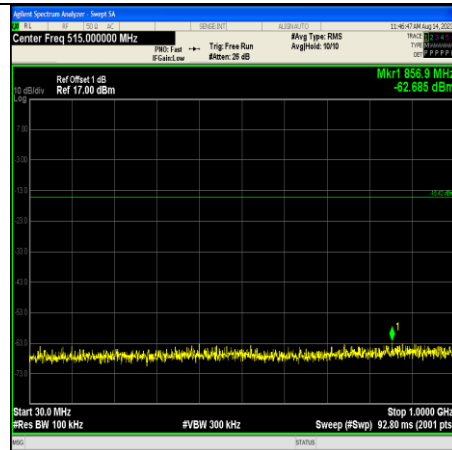
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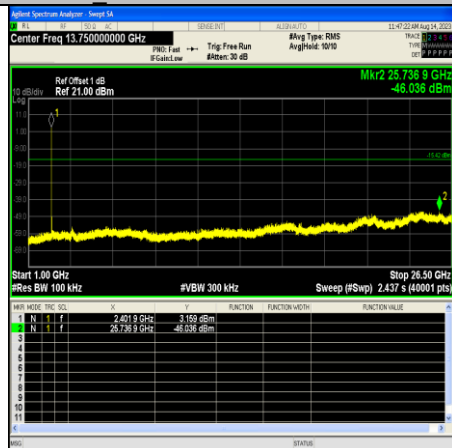
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BLE 1M-Ant10-2402-0~Reference



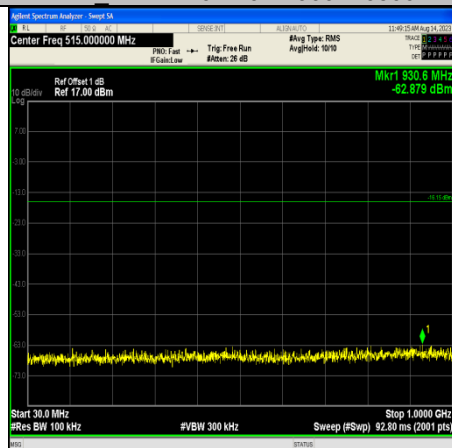
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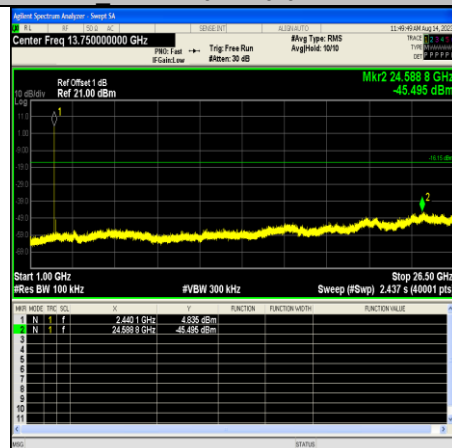
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BLE 1M-Ant10-2440-0~Reference



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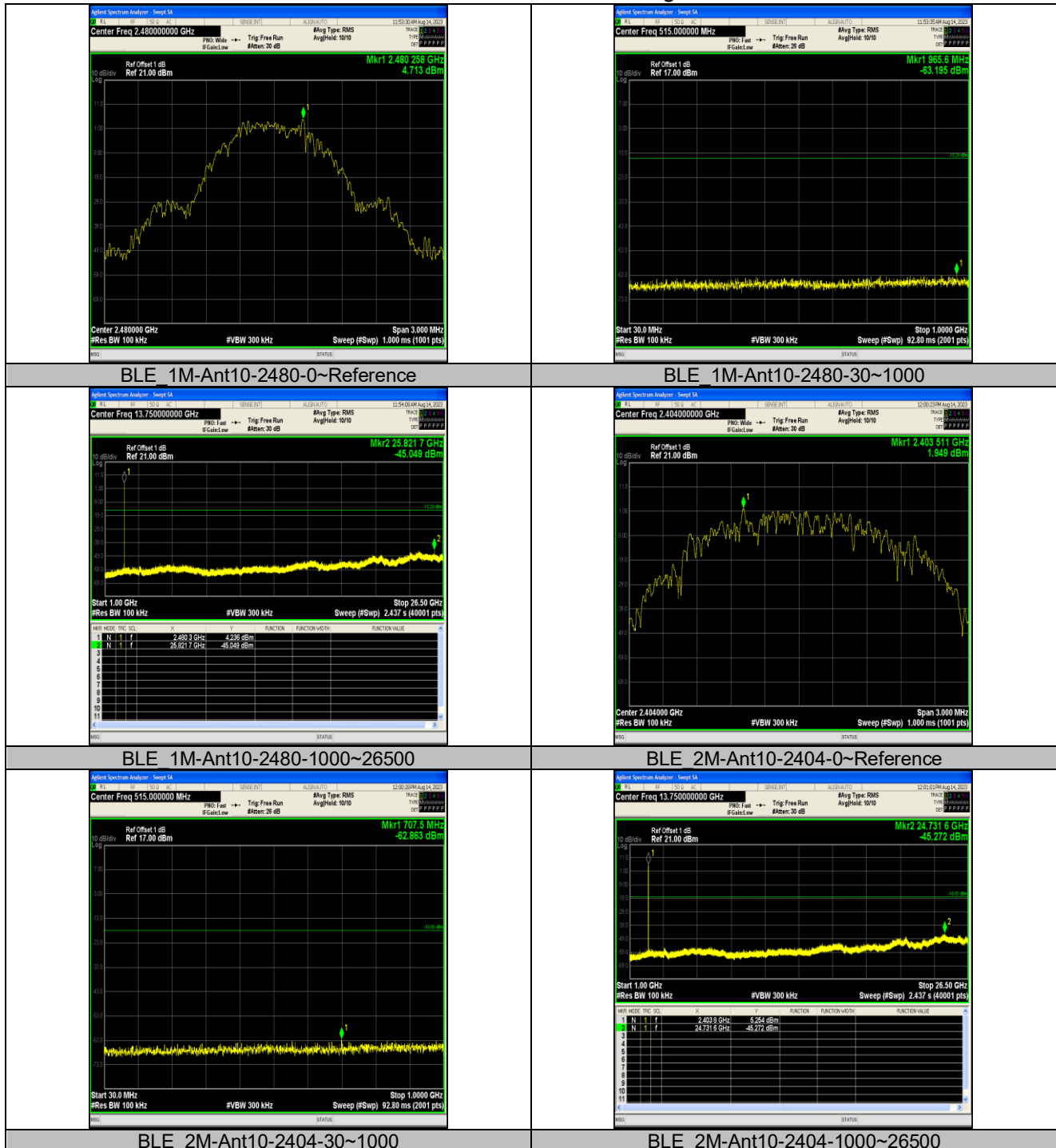
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Rev.: 01

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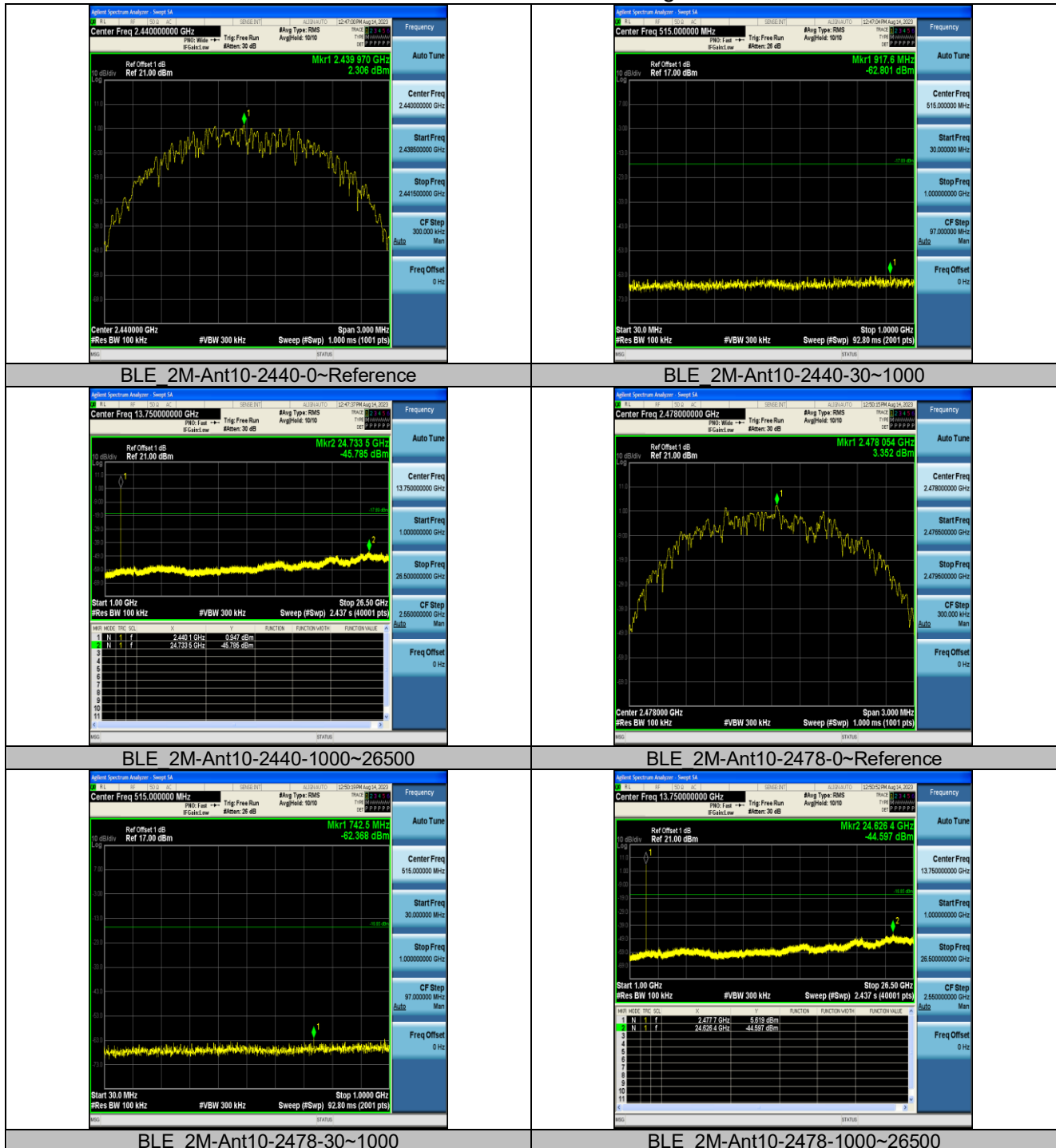
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 42 of 74



Report No.: SEWM2307000261RG04

Rev.: 01

Page: 43 of 74

## Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant10	2402	0.39	0.63	61.90	2.08
BLE_2M	Ant10	2404	0.21	0.63	33.33	4.77

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.39	0.63	61.90	2.56410	2.7KHz
BLE_2M	0.21	0.63	33.33	4.76190	5.1KHz



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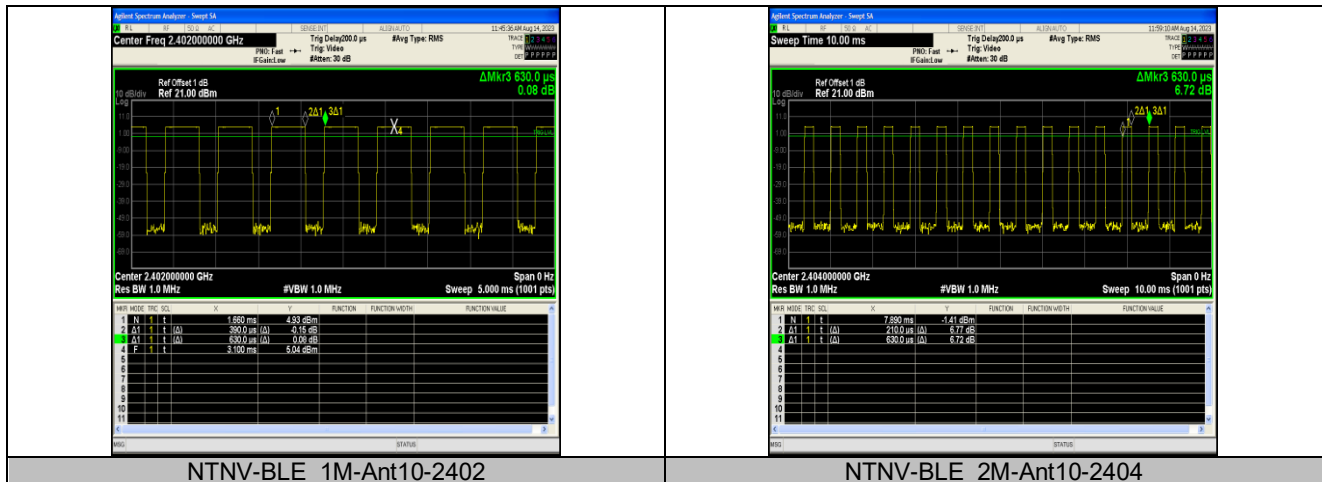


Report No.: SEWM2307000261RG04

Rev.: 01

Page: 44 of 74

### Test Graphs



NTNV-BLE\_1M-Ant10-2402

NTNV-BLE\_2M-Ant10-2404



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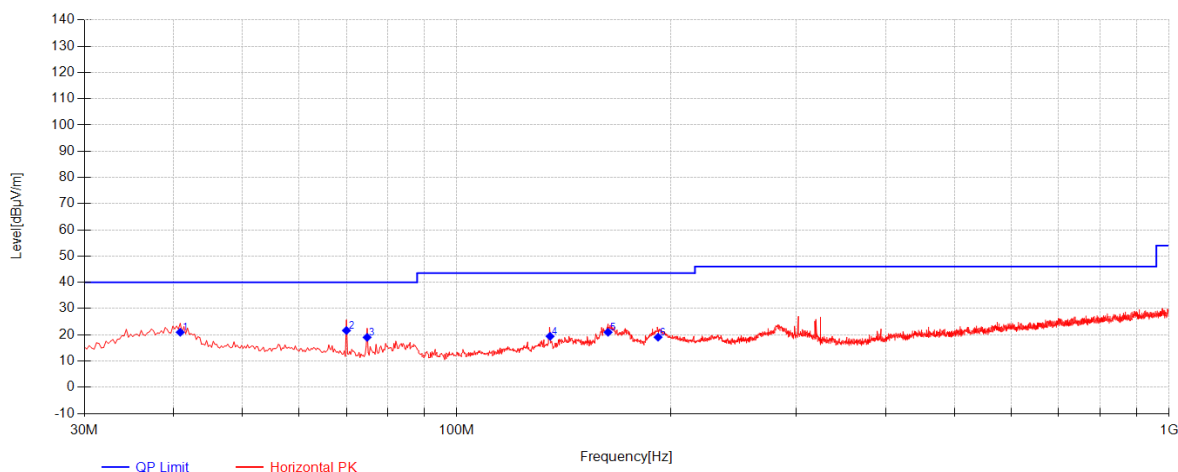
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Rev.: 01  
Page: 45 of 74

### Radiated Spurious Emissions

### Radiated emission below 1GHz

Worst case Mode: BLE 1M\_Channel 39



#### Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.9125	43.22	-36.26	13.99	20.96	40.00	19.04	156	184	Horizontal
2	70.0125	47.33	-36.52	10.82	21.63	40.00	18.37	236	144	Horizontal
3	74.8625	45.03	-36.09	10.08	19.02	40.00	20.98	214	112	Horizontal
4	135.245	41.85	-35.59	13.17	19.42	43.50	24.08	185	132	Horizontal
5	163.1325	42.02	-35.26	14.22	20.98	43.50	22.52	169	354	Horizontal
6	191.7475	42.59	-35.37	11.87	19.09	43.50	24.41	192	354	Horizontal



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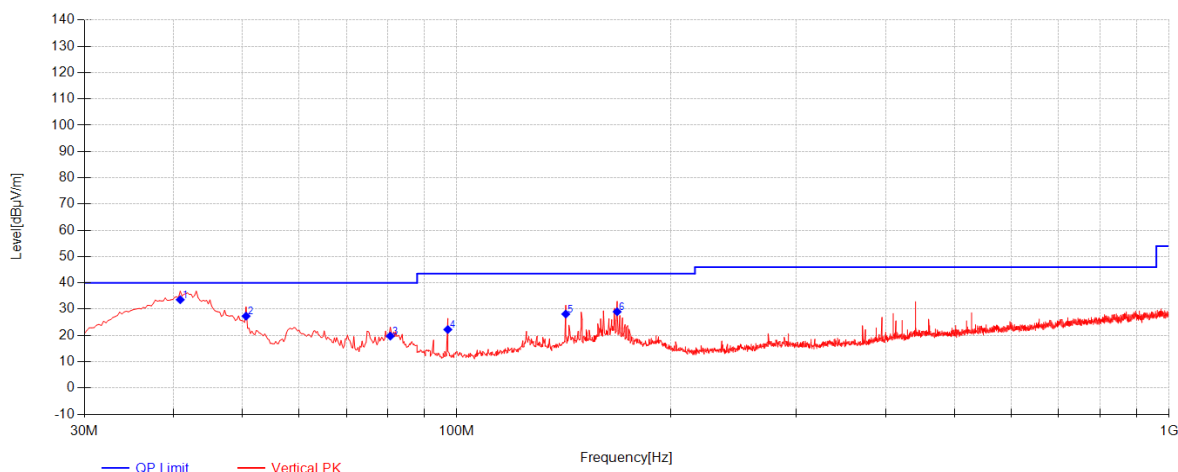
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 46 of 74



### Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.9125	55.86	-36.26	13.99	33.60	40.00	6.40	126	55	Vertical
2	50.6125	50.01	-36.16	13.49	27.35	40.00	12.65	231	238	Vertical
3	80.6825	46.13	-35.68	9.30	19.75	40.00	20.25	154	349	Vertical
4	97.1725	48.26	-35.95	9.95	22.26	43.50	21.24	185	158	Vertical
5	142.2775	50.03	-35.48	13.58	28.13	43.50	15.37	142	136	Vertical
6	167.9825	49.83	-35.18	14.36	29.01	43.50	14.49	159	319	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:

Value = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Value(dBμV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.



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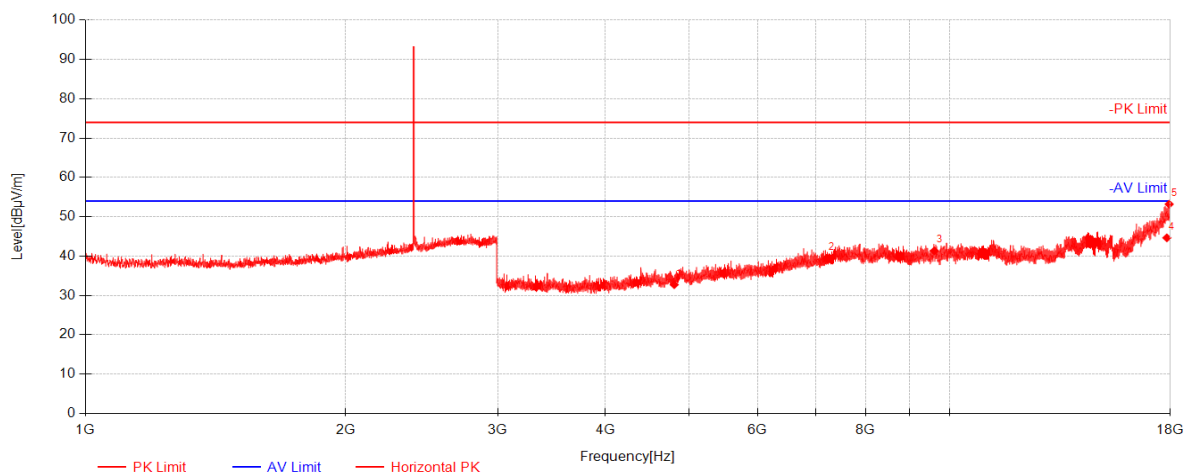
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Rev.: 01

Page: 47 of 74

### Transmitter emission Above 1GHz

#### BLE 1M\_Channel 00



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	4804.0000	47.31	30.97	-45.54	32.74	74.00	41.26	266	359	Horizontal
2	7206.0000	47.10	35.78	-43.44	39.44	74.00	34.56	132	166	Horizontal
3	9608.0000	43.54	37.46	-39.65	41.34	74.00	32.66	140	4	Horizontal
4	17852	33.07	46.13	-34.57	44.64	54.00	9.36	248	140	Horizontal
5	17963.5	41.12	46.64	-34.55	53.20	74.00	20.80	175	335	Horizontal



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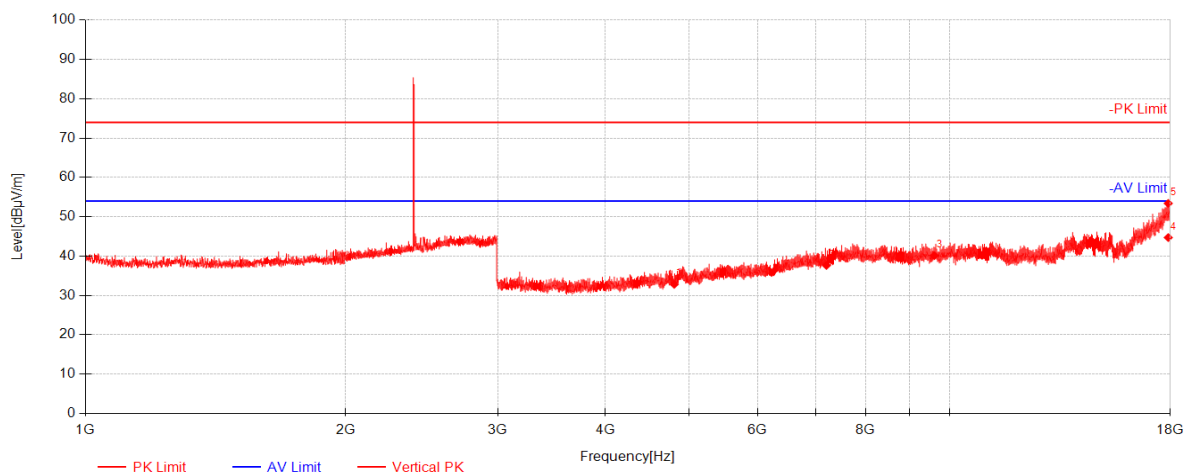
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 48 of 74

### BLE 1M\_Channel 00



### 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	4804.0000	47.39	30.97	-45.54	32.82	74.00	41.18	244	354	Vertical
2	7206.0000	45.30	35.78	-43.44	37.64	74.00	36.36	189	56	Vertical
3	9608.0000	42.33	37.46	-39.65	40.13	74.00	33.87	176	4	Vertical
4	17917.5	32.80	46.43	-34.52	44.71	54.00	9.29	136	56	Vertical
5	17918	41.49	46.43	-34.52	53.40	74.00	20.60	248	336	Vertical



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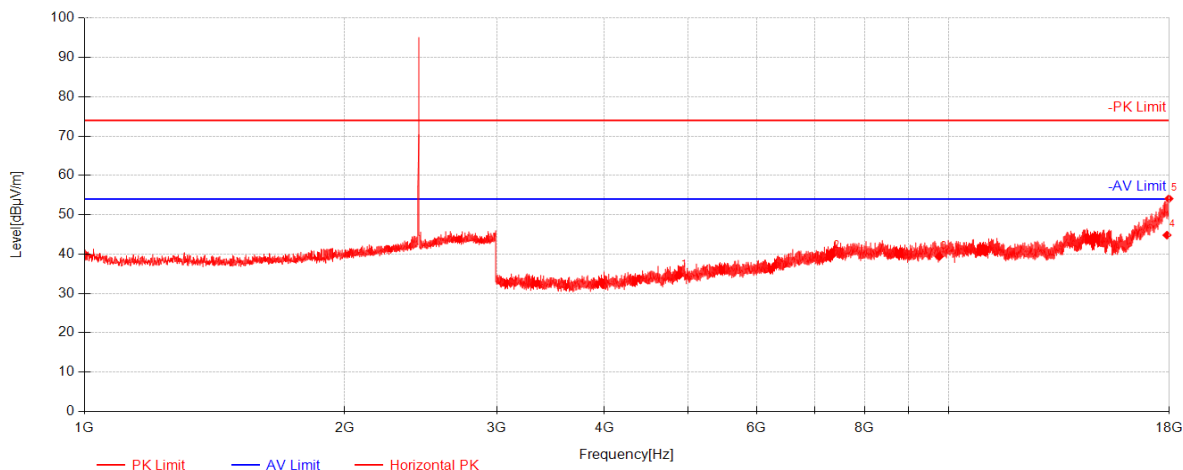
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Rev.: 01  
Page: 49 of 74

### BLE 1M\_Channel 19



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	4880.0000	48.99	31.14	-45.53	34.59	74.00	39.41	148	353	Horizontal
2	7320.0000	47.15	36.10	-43.68	39.56	74.00	34.44	175	334	Horizontal
3	9760.0000	41.10	37.74	-39.46	39.38	74.00	34.62	195	279	Horizontal
4	17904.5	32.96	46.37	-34.51	44.82	54.00	9.18	278	222	Horizontal
5	17998.5	41.88	46.79	-34.58	54.09	74.00	19.91	153	4	Horizontal



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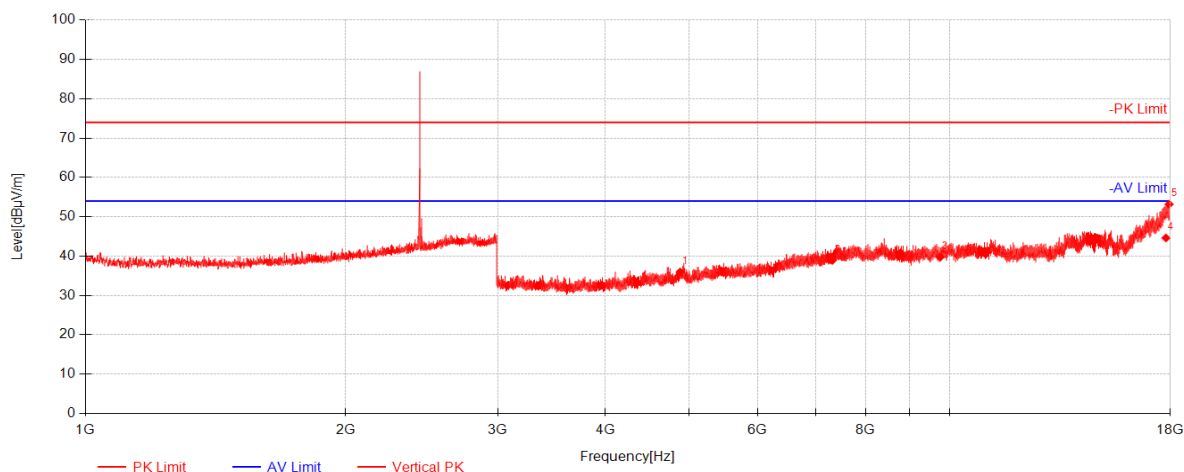
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Rev.: 01

Page: 50 of 74

### BLE 1M\_Channel 19



### 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	4880.0000	50.36	31.14	-45.53	35.96	74.00	38.04	210	81	Vertical
2	7320.0000	46.51	36.10	-43.68	38.92	74.00	35.08	123	307	Vertical
3	9760.0000	41.47	37.74	-39.46	39.75	74.00	34.25	219	250	Vertical
4	17809.5	33.30	45.94	-34.62	44.62	54.00	9.38	236	3	Vertical
5	17960.5	41.11	46.62	-34.55	53.18	74.00	20.82	215	359	Vertical



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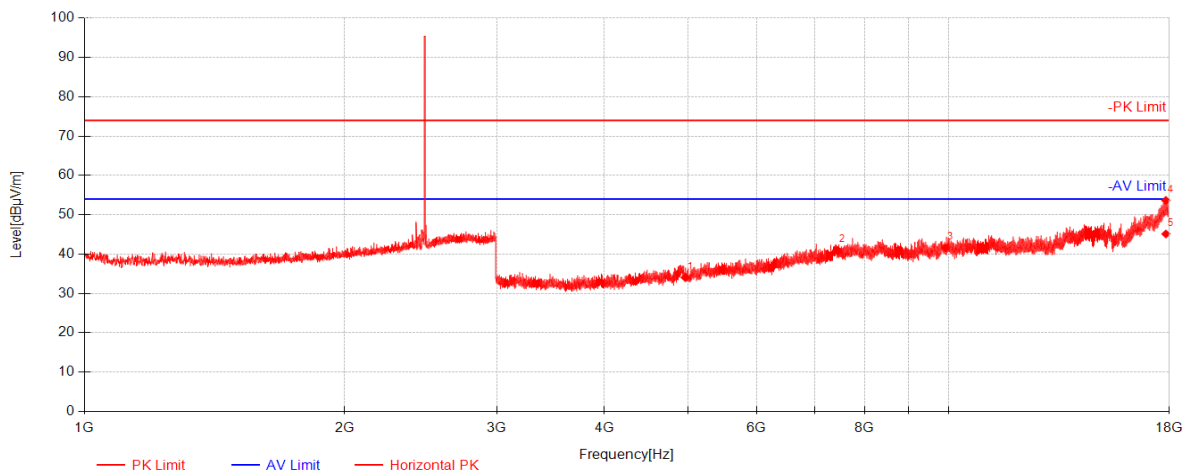
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Rev.: 01  
Page: 51 of 74

### BLE 1M\_Channel 39



### 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	4960.0000	48.32	31.31	-45.60	34.04	74.00	39.96	258	352	Horizontal
2	7440.0000	47.87	36.43	-43.30	41.00	74.00	33.00	146	360	Horizontal
3	9920.0000	42.85	38.05	-39.31	41.59	74.00	32.41	192	136	Horizontal
4	17850	42.08	46.13	-34.57	53.64	74.00	20.36	211	360	Horizontal
5	17855	33.53	46.15	-34.56	45.11	54.00	8.89	189	192	Horizontal



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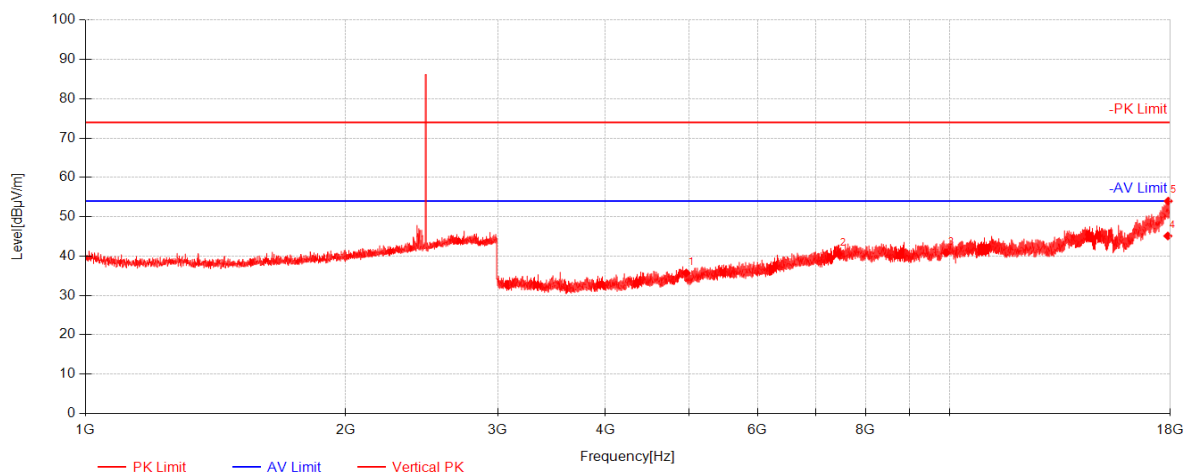
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Page: 52 of 74

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Data List										
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1	4960.0000	49.99	31.31	-45.60	35.71	74.00	38.29	241	138	Vertical
2	7440.0000	47.44	36.43	-43.30	40.57	74.00	33.43	155	82	Vertical
3	9920.0000	42.07	38.05	-39.31	40.81	74.00	33.19	123	353	Vertical
4	17900	33.28	46.35	-34.51	45.12	54.00	8.88	247	194	Vertical
5	17917.5	42.07	46.43	-34.52	53.98	74.00	20.02	189	109	Vertical



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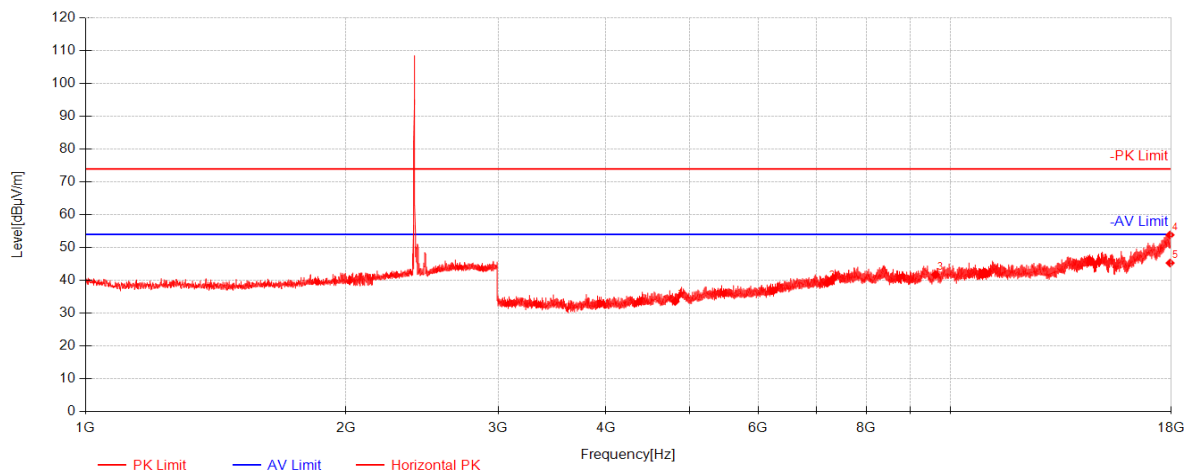
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 53 of 74

## BLE 2M\_Channel 01



## 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	4808.0000	48.10	30.98	-45.54	33.54	74.00	40.46	248	146	Horizontal
2	7212.0000	46.85	35.79	-43.46	39.18	74.00	34.82	175	167	Horizontal
3	9616.0000	43.91	37.47	-39.63	41.75	74.00	32.25	153	5	Horizontal
4	17957.5	41.79	46.61	-34.55	53.85	74.00	20.15	248	252	Horizontal
5	17962.5	33.21	46.63	-34.55	45.29	54.00	8.71	163	104	Horizontal



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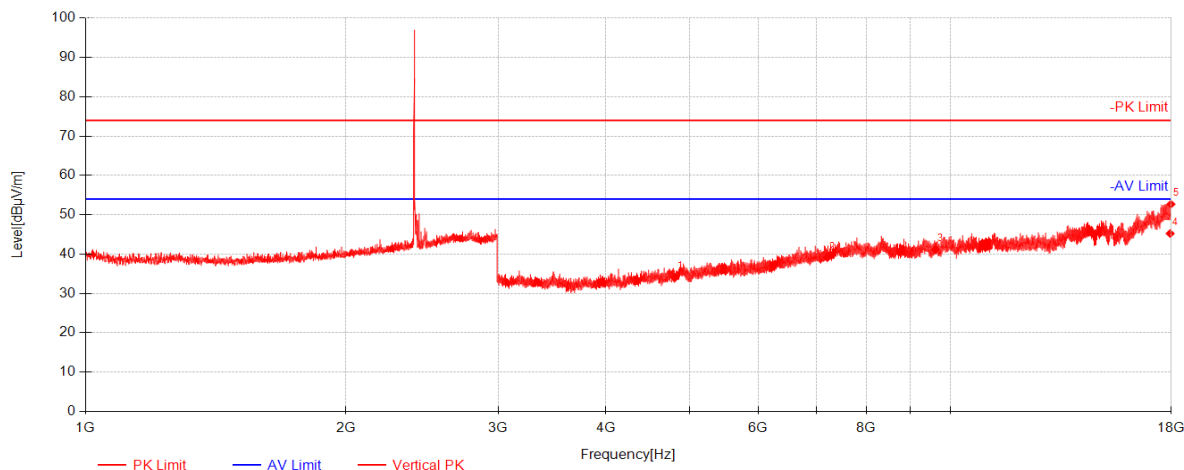
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 54 of 74

### BLE 2M\_Channel 01



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	4808.0000	48.63	30.98	-45.54	34.07	74.00	39.93	174	233	Vertical
2	7212.0000	46.79	35.79	-43.46	39.12	74.00	34.88	165	127	Vertical
3	9616.0000	43.31	37.47	-39.63	41.15	74.00	32.85	195	148	Vertical
4	17963.5	33.15	46.64	-34.55	45.23	54.00	8.77	248	233	Vertical
5	17999.5	40.46	46.80	-34.58	52.68	74.00	21.32	173	21	Vertical



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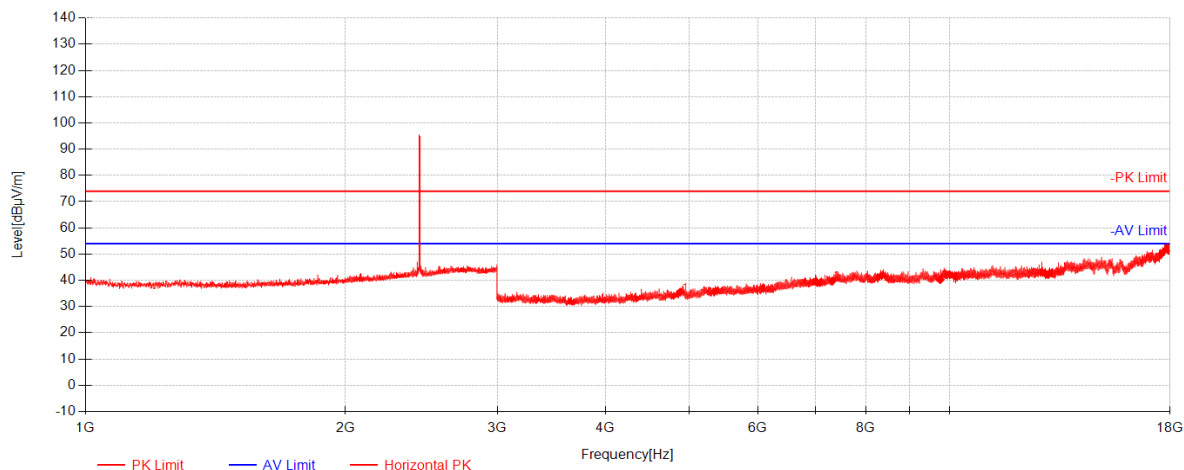
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 55 of 74

### BLE 2M\_Channel 19



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	4880.0000	49.89	31.14	-45.53	35.49	74.00	38.51	265	55	Horizontal
2	7320.0000	47.37	36.10	-43.68	39.78	74.00	34.22	148	4	Horizontal
3	9760.0000	41.95	37.74	-39.46	40.23	74.00	33.77	172	310	Horizontal



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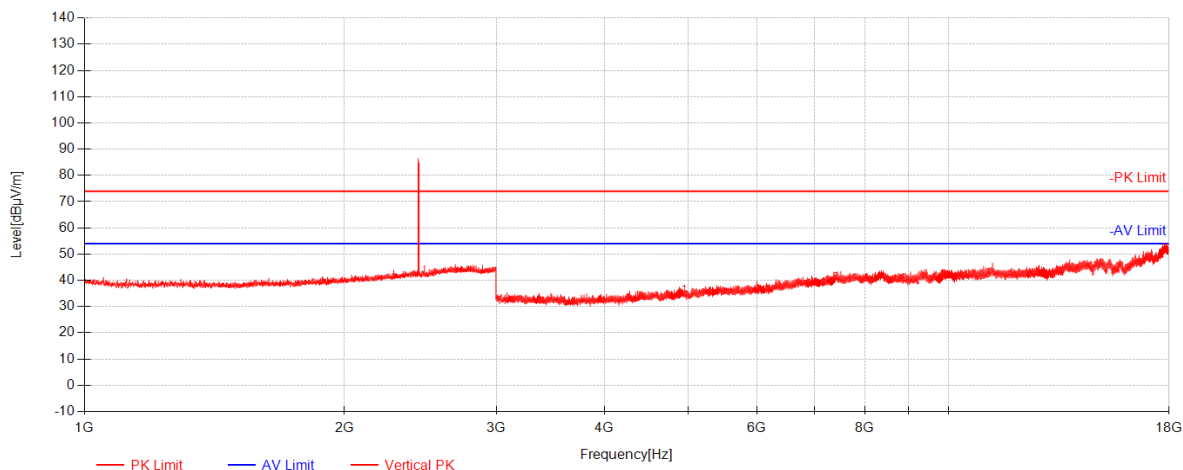
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 56 of 74

### BLE 2M\_Channel 19



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	4880.0000	49.03	31.14	-45.53	34.63	74.00	39.37	230	82	Vertical
2	7320.0000	47.16	36.10	-43.68	39.57	74.00	34.43	185	54	Vertical
3	9760.0000	42.18	37.74	-39.46	40.46	74.00	33.54	145	354	Vertical



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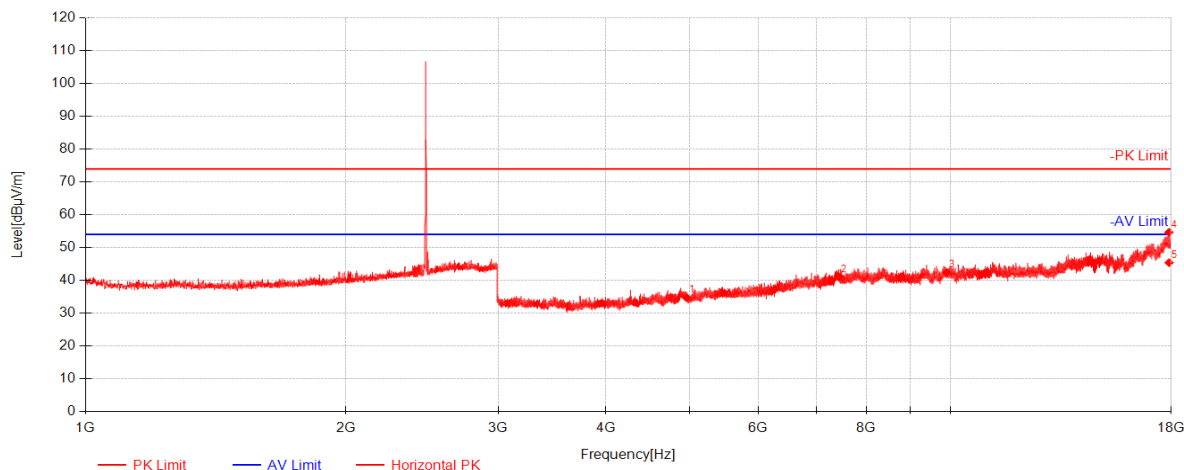
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 57 of 74

## BLE 2M\_Channel 38



## 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	4956.0000	48.98	31.30	-45.59	34.69	74.00	39.31	248	0	Horizontal
2	7434.0000	47.98	36.42	-43.32	41.08	74.00	32.92	179	99	Horizontal
3	9912.0000	43.69	38.03	-39.32	42.40	74.00	31.60	186	315	Horizontal
4	17905	42.79	46.37	-34.51	54.65	74.00	19.35	236	78	Horizontal
5	17913	33.49	46.41	-34.52	45.38	54.00	8.62	251	17	Horizontal



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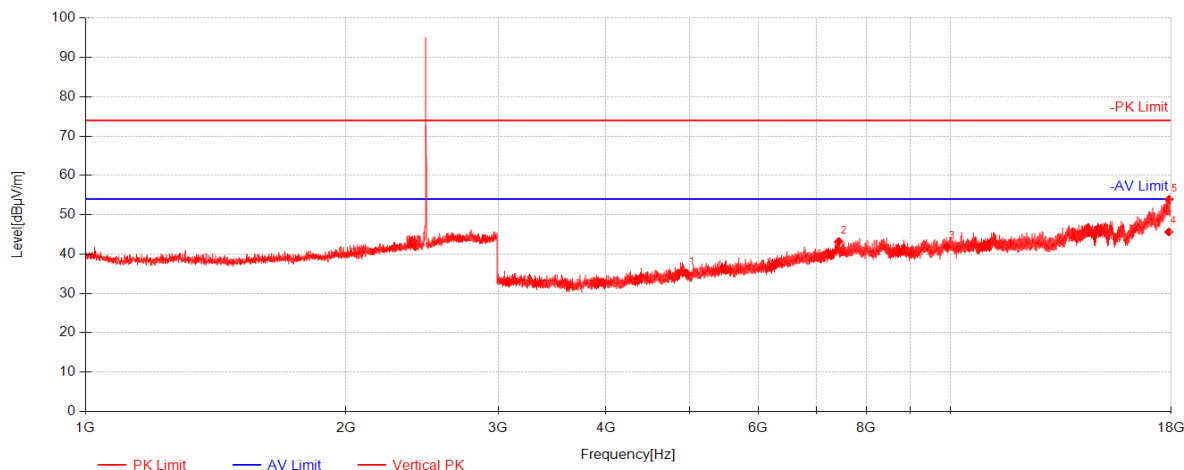
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 58 of 74

### BLE 2M\_Channel 38



### 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	4956.0000	49.47	31.30	-45.59	35.18	74.00	38.82	248	124	Vertical
2	7434.0000	50.14	36.42	-43.32	43.24	74.00	30.76	175	62	Vertical
3	9912.0000	43.09	38.03	-39.32	41.80	74.00	32.20	156	1	Vertical
4	17898.5	33.80	46.34	-34.51	45.63	54.00	8.37	215	252	Vertical
5	17913	42.05	46.41	-34.52	53.94	74.00	20.06	169	41	Vertical

### Remark:

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

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

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

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

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



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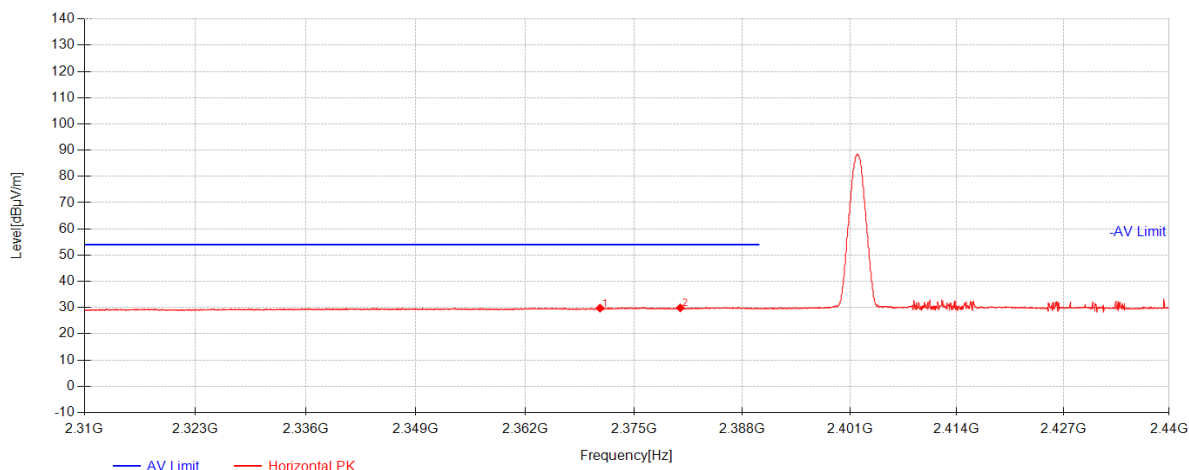
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 59 of 74

### Restricted bands around fundamental frequency

#### BLE 1M\_Channel 00



#### 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	2370.9267	26.41	26.94	-23.57	29.78	54.00	24.22	142	65	Horizontal
2	2380.5467	26.48	26.97	-23.57	29.87	54.00	24.13	142	65	Horizontal



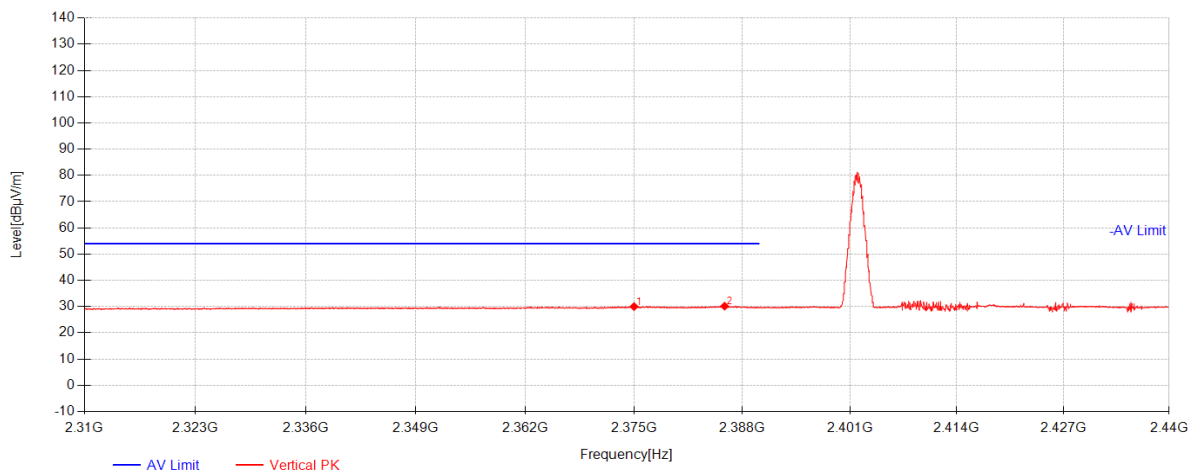
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Rev.: 01  
Page: 60 of 74

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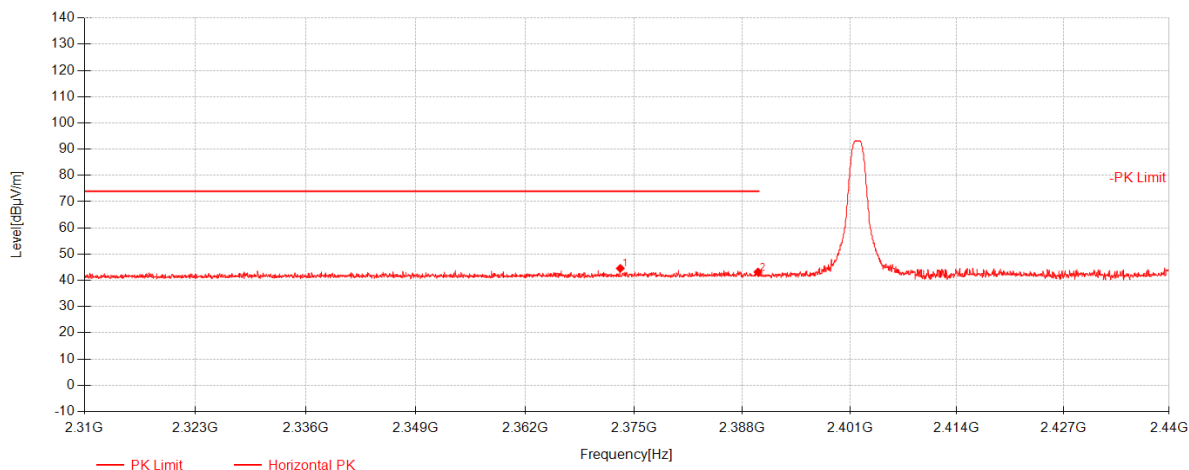
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375	26.62	26.95	-23.57	30.00	54.00	24.00	211	18	Vertical
2	2385.8767	26.75	26.98	-23.57	30.16	54.00	23.84	211	18	Vertical



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Report No.: SEWM2307000261RG04  
 Rev.: 01  
 Page: 61 of 74

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Data List										
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1	2373.3533	41.19	26.95	-23.57	44.56	74.00	29.44	142	65	Horizontal
2	2389.9067	39.74	26.99	-23.57	43.16	74.00	30.84	142	65	Horizontal



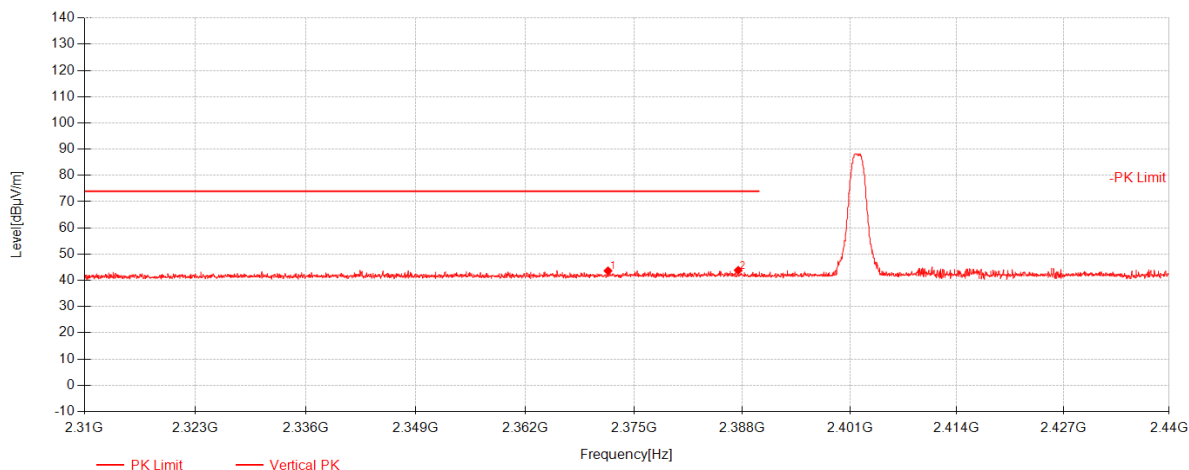
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Rev.: 01  
Page: 62 of 74

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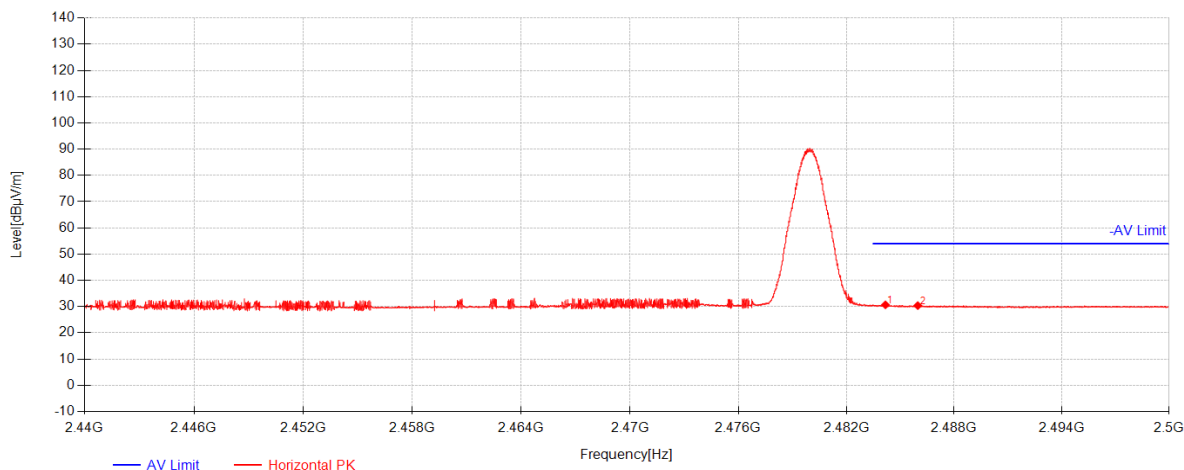
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1	2371.88	40.26	26.94	-23.57	43.63	74.00	30.37	211	18	Vertical
2	2387.5233	40.44	26.99	-23.57	43.85	74.00	30.15	211	18	Vertical



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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 63 of 74

### BLE 1M\_Channel 39



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	2484.175	26.95	27.26	-23.54	30.66	54.00	23.34	218	148	Horizontal
2	2485.975	26.65	27.26	-23.54	30.37	54.00	23.63	218	148	Horizontal



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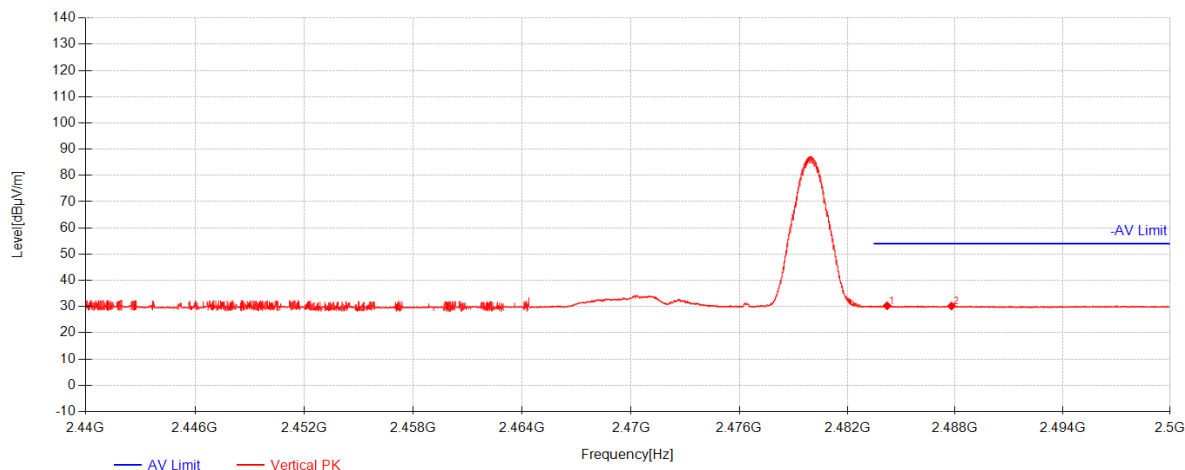


Report No.: SEWM2307000261RG04

Rev.: 01

Page: 64 of 74

### BLE 1M\_Channel 39



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	2484.2125	26.60	27.26	-23.54	30.31	54.00	23.69	233	239	Vertical
2	2487.7975	26.48	27.27	-23.54	30.20	54.00	23.80	233	239	Vertical



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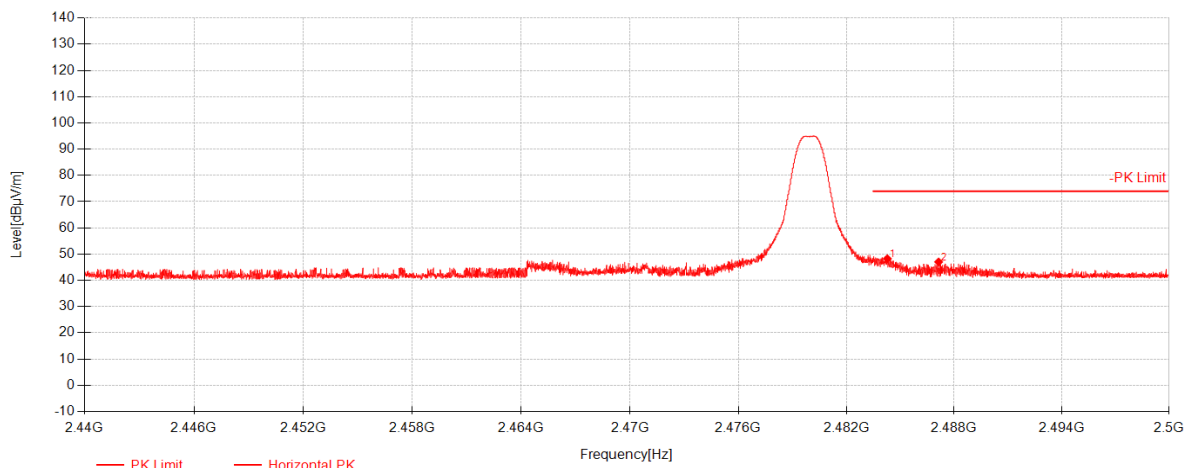
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 65 of 74

### BLE 1M\_Channel 39



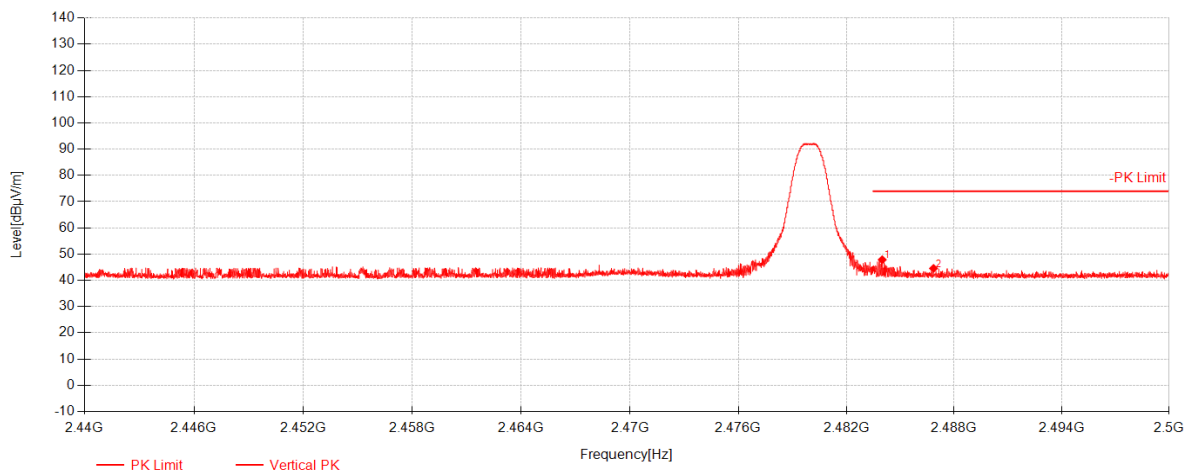
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1	2484.28	44.54	27.26	-23.54	48.25	74.00	25.75	218	148	Horizontal
2	2487.1375	43.30	27.26	-23.54	47.02	74.00	26.98	218	148	Horizontal



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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 66 of 74

### BLE 1M\_Channel 39



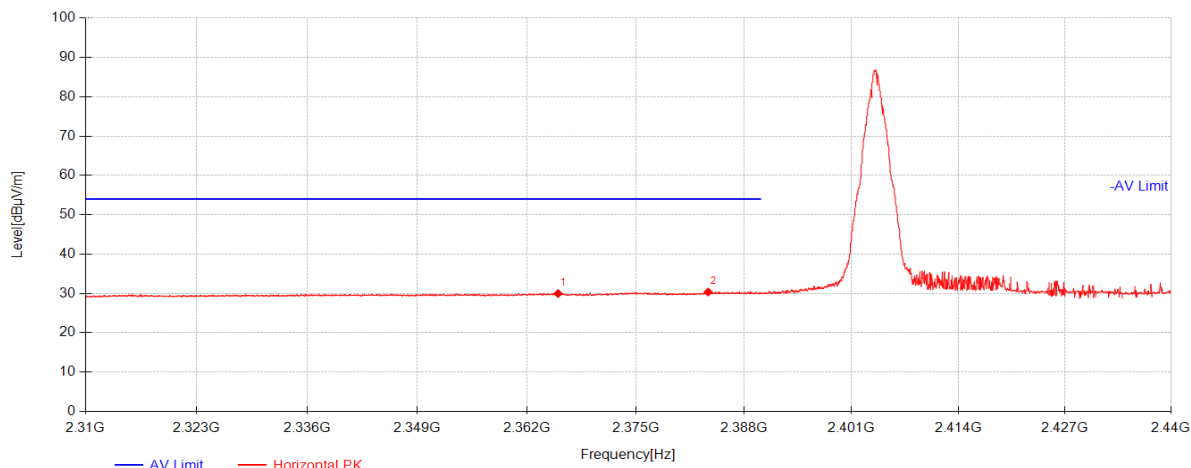
Data List										
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1	2483.995	44.15	27.26	-23.54	47.86	74.00	26.14	233	239	Vertical
2	2486.8525	40.82	27.26	-23.54	44.54	74.00	29.46	233	239	Vertical



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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 67 of 74

### BLE 2M\_Channel 01



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	2365.7267	26.63	26.92	-23.57	29.98	54.00	24.02	122	90	Horizontal
2	2383.71	26.97	26.97	-23.57	30.37	54.00	23.63	122	90	Horizontal



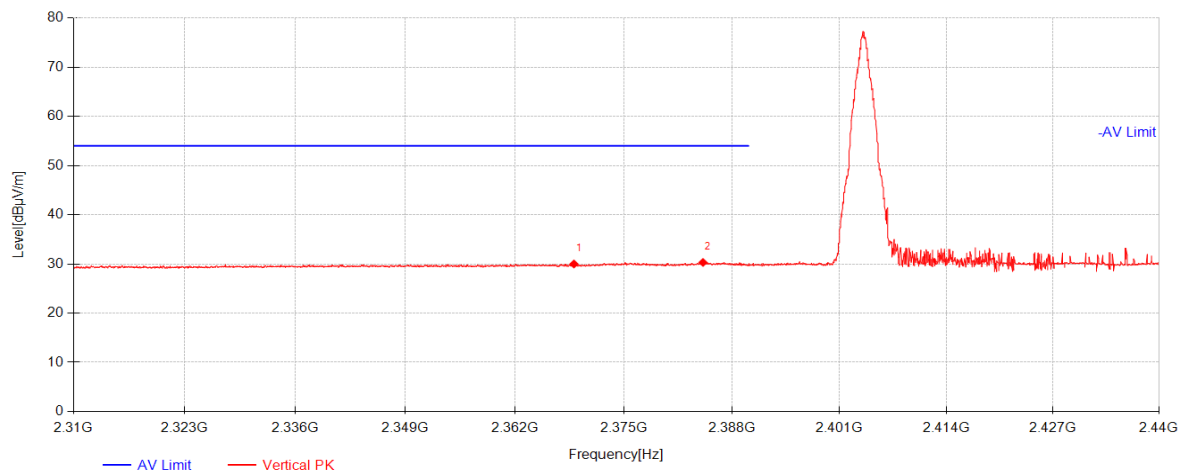
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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 68 of 74

### BLE 2M\_Channel 01



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	2369.0633	26.63	26.93	-23.57	29.99	54.00	24.01	288	141	Vertical
2	2384.5333	26.90	26.98	-23.57	30.31	54.00	23.69	288	141	Vertical

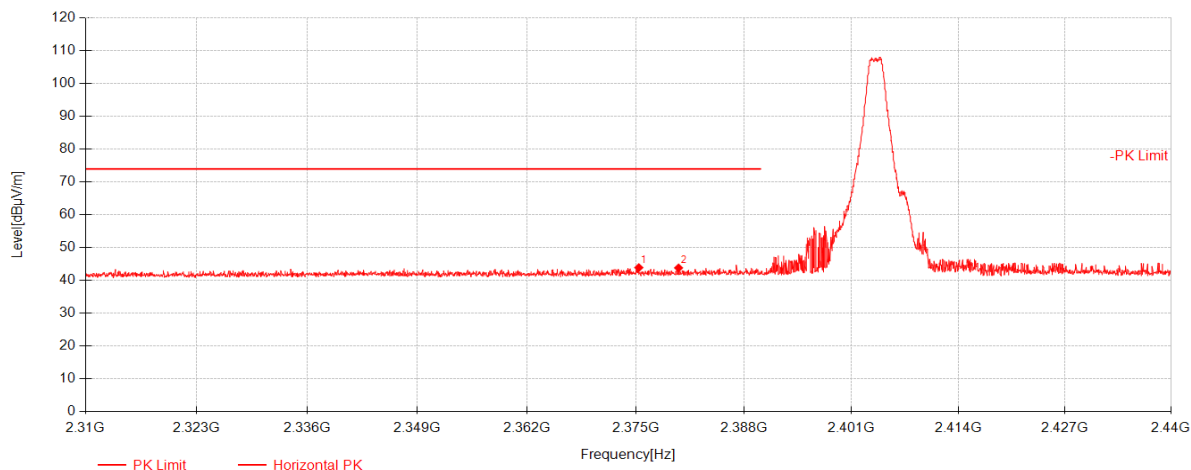


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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 69 of 74

### BLE 2M\_Channel 01



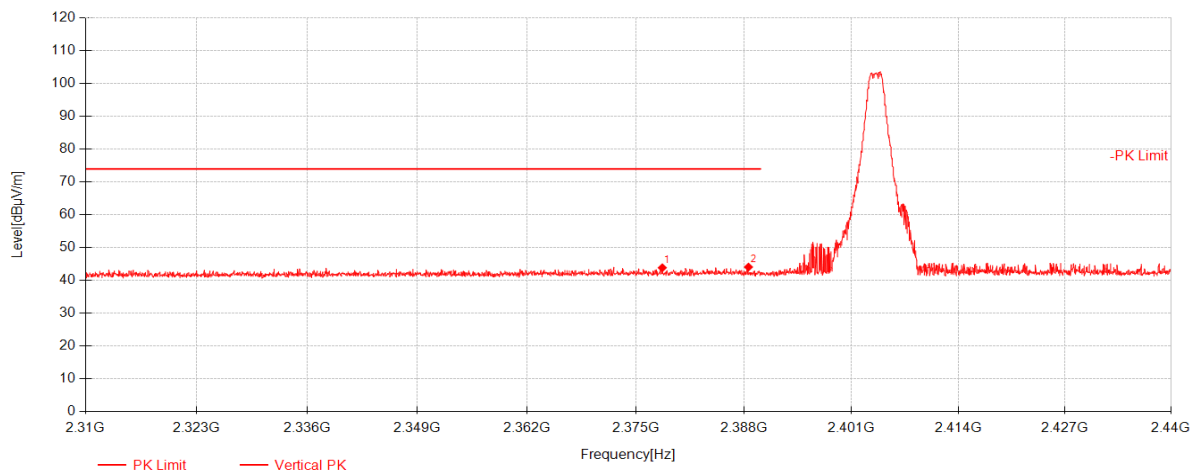
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1	2375.39	40.50	26.95	-23.57	43.88	74.00	30.12	122	90	Horizontal
2	2380.1567	40.41	26.96	-23.57	43.80	74.00	30.20	122	90	Horizontal



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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 70 of 74

### BLE 2M\_Channel 01



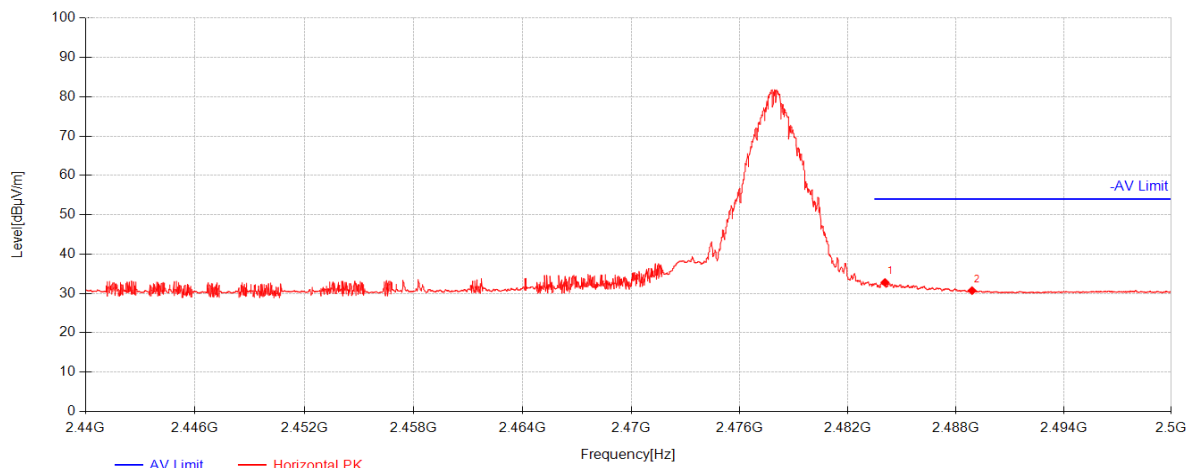
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1	2378.2067	40.45	26.96	-23.57	43.84	74.00	30.16	288	141	Vertical
2	2388.5633	40.63	26.99	-23.57	44.05	74.00	29.95	288	141	Vertical



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Report No.: SEWM2307000261RG04  
Rev.: 01  
Page: 71 of 74

### BLE 2M\_Channel 38



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	2484.055	29.09	27.26	-23.54	32.80	54.00	21.20	123	110	Horizontal
2	2488.9	26.99	27.27	-23.54	30.72	54.00	23.28	123	110	Horizontal



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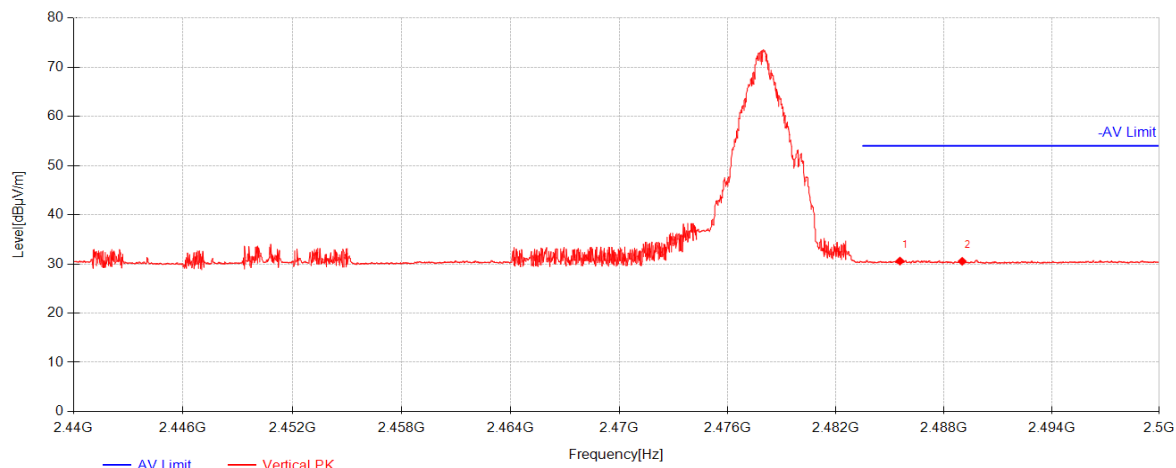
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Report No.: SEWM2307000261RG04

Rev.: 01

Page: 72 of 74

### BLE 2M\_Channel 38



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	2485.555	26.86	27.26	-23.54	30.58	54.00	23.42	163	213	Vertical
2	2489.02	26.81	27.27	-23.54	30.54	54.00	23.46	163	213	Vertical



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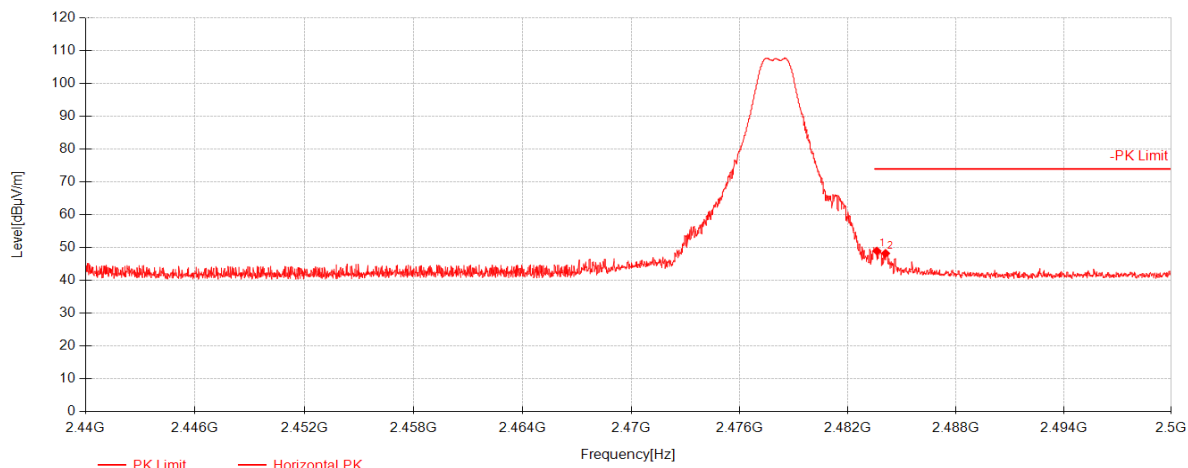
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Report No.: SEWM2307000261RG04  
 Rev.: 01  
 Page: 73 of 74

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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	2483.605	45.25	27.25	-23.54	48.96	74.00	25.04	123	110	Horizontal
2	2484.085	44.52	27.26	-23.54	48.23	74.00	25.77	123	110	Horizontal



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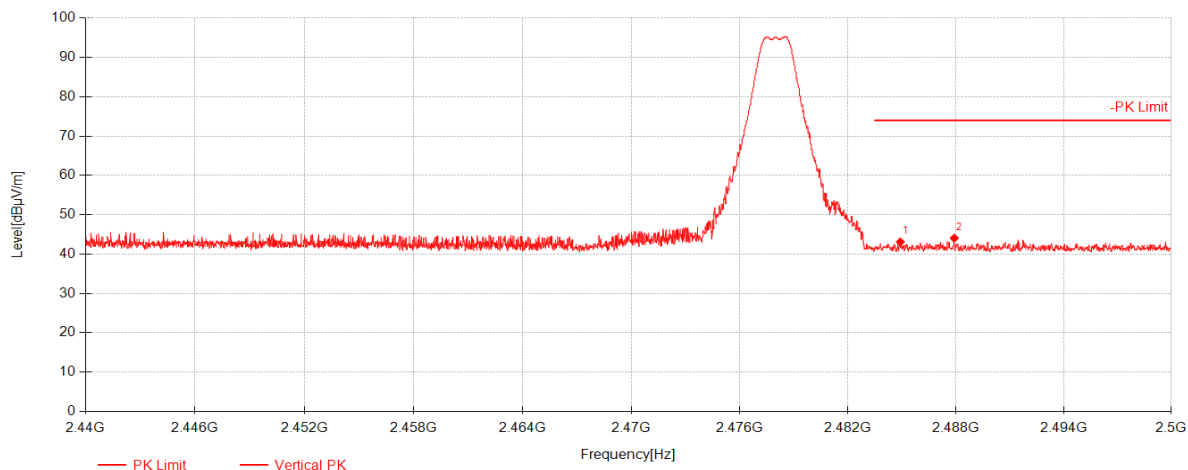


Report No.: SEWM2307000261RG04

Rev.: 01

Page: 74 of 74

## BLE 2M\_Channel 38



## 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	2484.91	39.41	27.26	-23.54	43.12	74.00	30.88	163	213	Vertical
2	2487.91	40.33	27.27	-23.54	44.05	74.00	29.95	163	213	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:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – 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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