

Report No.: SEWM2209000170RG04

Rev.: 01

Page: 1 of 76

TEST REPORT

Application No.: SEWM2209000170RG
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.: 22101316G
Trade Mark: Redmi
FCC ID: 2AFZZ1316G
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/09/02
Date of Test: 2022/09/09 to 2022/09/28
Date of Issue: 2022/10/09

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:


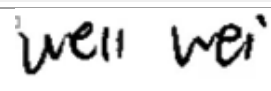
Panta Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/10/09		Original

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



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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 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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

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3 General Information

3.1 Details of Client

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

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:	Tizzy Song, Lves Cheng

3.3 Test Facility

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

<ul style="list-style-type: none"> 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:	Mobile Phone	
Model No.:	22101316G	
Trade Mark:	Redmi	
Hardware Version:	P2	
Software Version:	MIUI14	
IMEI:	RF Conducted	861485060061299 861485060061278 861485060061307 861485060061378
	RSE & AC power line	861485060084416 861485060084424
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: - f_c = "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:	PIFA Antenna	
Antenna Gain:	-0.34dBi(Ant1)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1dB	

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:

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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

3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.87

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)
<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 PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -0.34dBi(Ant1). *</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>	



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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: 2013 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 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. 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: 2013 on conducted measurement. 		



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<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



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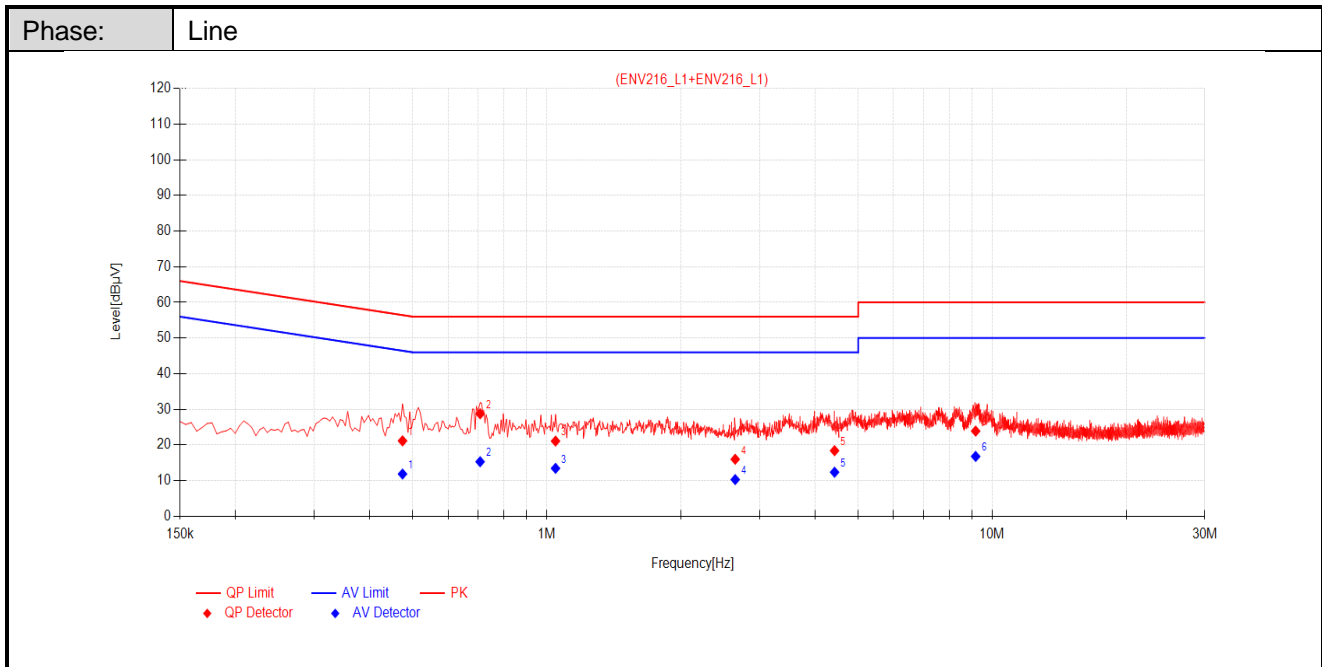
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Measurement Data

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.



Final 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	0.4740	10.59	10.57	21.16	56.44	35.28	1.28	11.87	46.44	34.57	PASS
2	0.7080	10.57	18.20	28.77	56.00	27.23	4.75	15.32	46.00	30.68	PASS
3	1.0455	10.56	10.55	21.11	56.00	34.89	2.89	13.45	46.00	32.55	PASS
4	2.6475	10.66	5.34	16.00	56.00	40.00	-0.35	10.31	46.00	35.69	PASS
5	4.4250	10.69	7.72	18.41	56.00	37.59	1.68	12.37	46.00	33.63	PASS
6	9.1770	10.66	13.25	23.91	60.00	36.09	6.14	16.80	50.00	33.20	PASS

Remark:

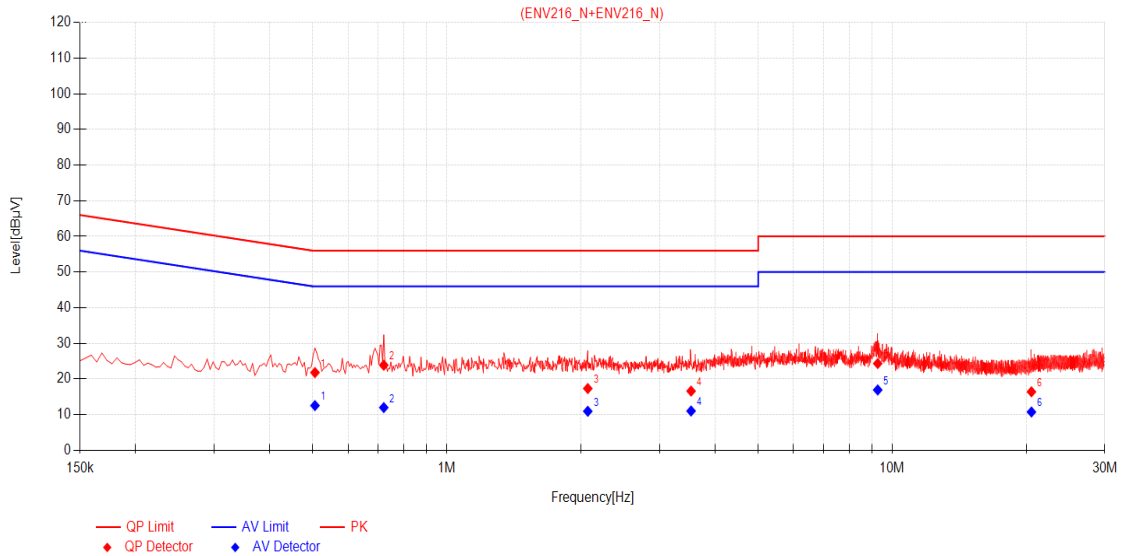
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Phase: Neutral



Final 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	0.5055	10.80	11.01	21.81	56.00	34.19	1.75	12.55	46.00	33.45	PASS
2	0.7215	10.81	13.07	23.88	56.00	32.12	1.18	11.99	46.00	34.01	PASS
3	2.0715	10.77	6.56	17.33	56.00	38.67	0.18	10.95	46.00	35.05	PASS
4	3.5340	10.67	5.94	16.61	56.00	39.39	0.36	11.03	46.00	34.97	PASS
5	9.2760	10.64	13.71	24.35	60.00	35.65	6.30	16.94	50.00	33.06	PASS
6	20.5395	10.40	6.01	16.41	60.00	43.59	0.35	10.75	50.00	39.25	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.: SEWM2209000170RG04

Rev.: 01

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4.3 Duty Cycle

The detailed test data see: **Appendix**



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

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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 :2013 Section11.9.2.3
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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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: 2013 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	



4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 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	



4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 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	



4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 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:

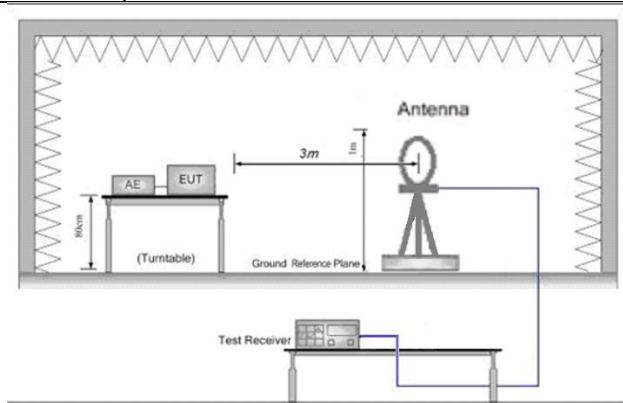


Figure 1. Below 30MHz

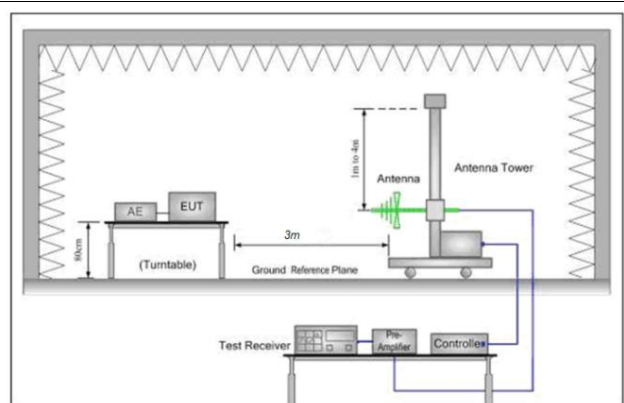


Figure 2. 30MHz to 1GHz



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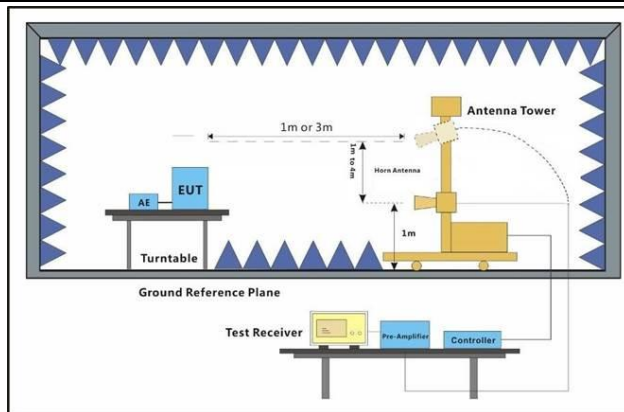


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<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 X 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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold



	<p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 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 ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
Final Test Mode:	<p>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.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 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:

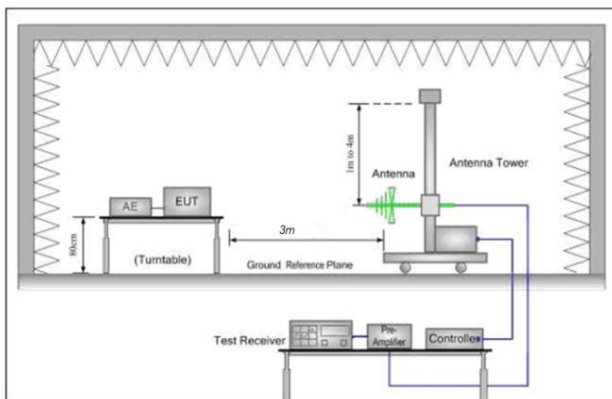


Figure 1. 30MHz to 1GHz

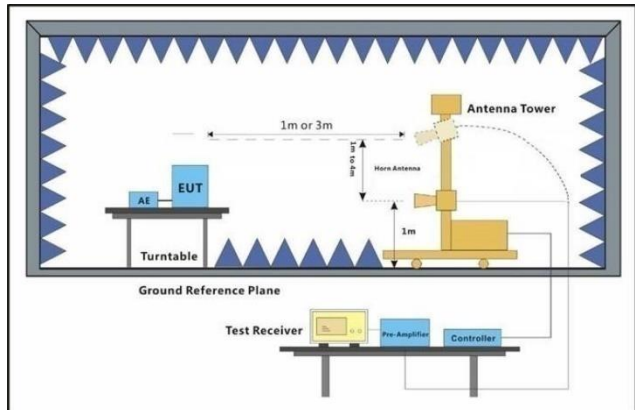


Figure 2. Above 1 GHz

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 frequency to show compliance. Also measure any emissions in the restricted



	<p>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"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 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 ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. 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: 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)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (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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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
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	2022/05/28	2023/05/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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RSE Test System					
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-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	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	Ant1	2402	0.68	2401.66	2402.34	≥0.5	PASS
		2440	0.68	2439.66	2440.34	≥0.5	PASS
		2480	0.68	2479.65	2480.34	≥0.5	PASS
BLE_2M	Ant1	2402	1.19	2401.40	2402.59	≥0.5	PASS
		2440	1.19	2439.40	2440.59	≥0.5	PASS
		2480	1.24	2479.35	2480.59	≥0.5	PASS



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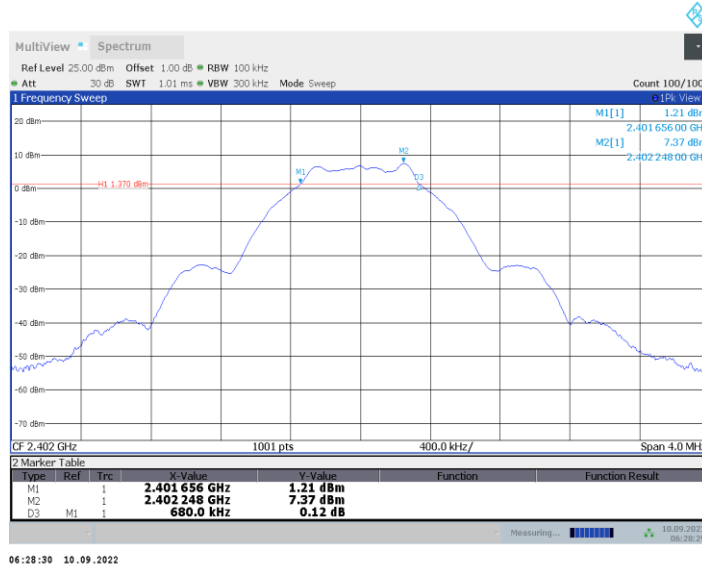
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Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

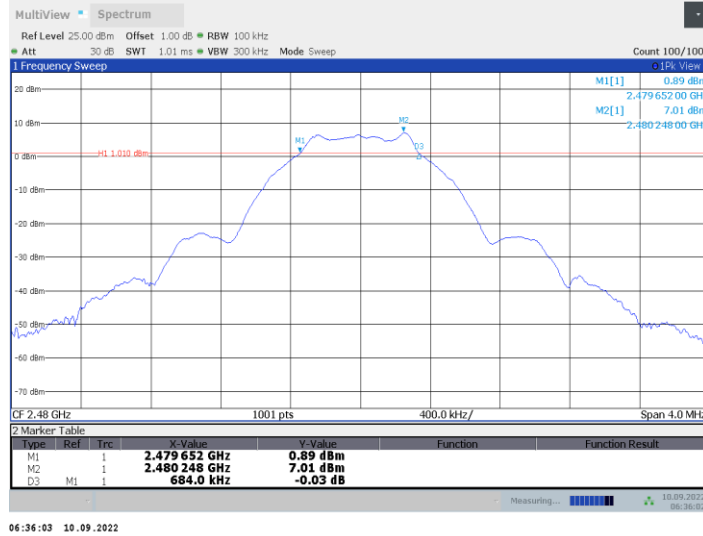


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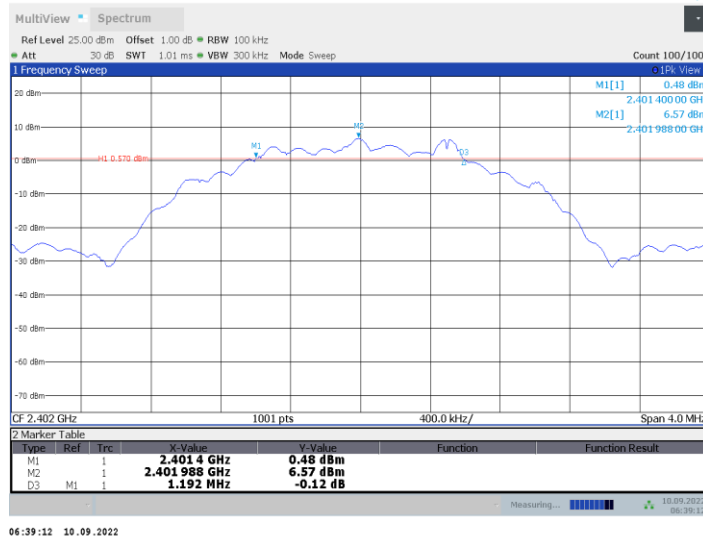
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BLE_1M_Ant1_2480



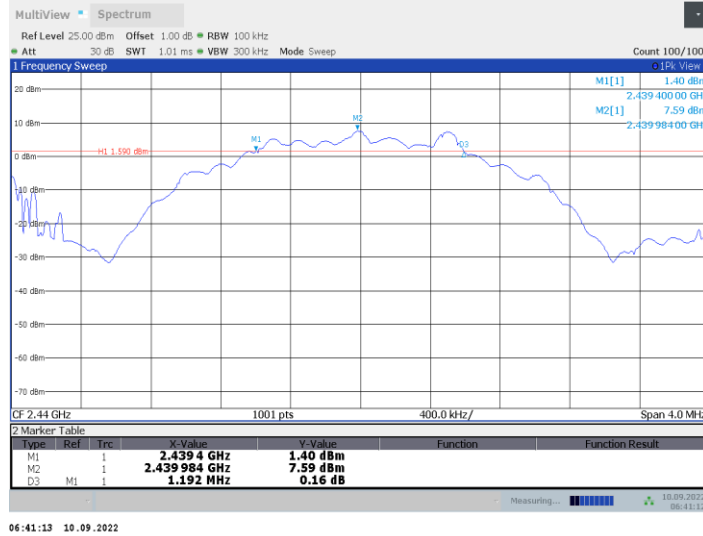
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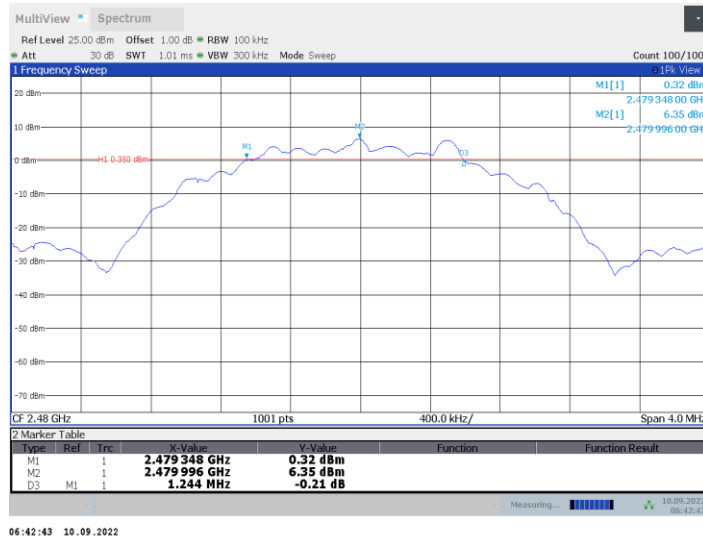
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.023	2401.491	2402.514	---	---
		2440	1.022	2439.490	2440.512	---	---
		2480	1.023	2479.489	2480.511	---	---
BLE_2M	Ant1	2402	2.042	2400.993	2403.035	---	---
		2440	2.041	2438.992	2441.033	---	---
		2480	2.043	2478.986	2481.029	---	---

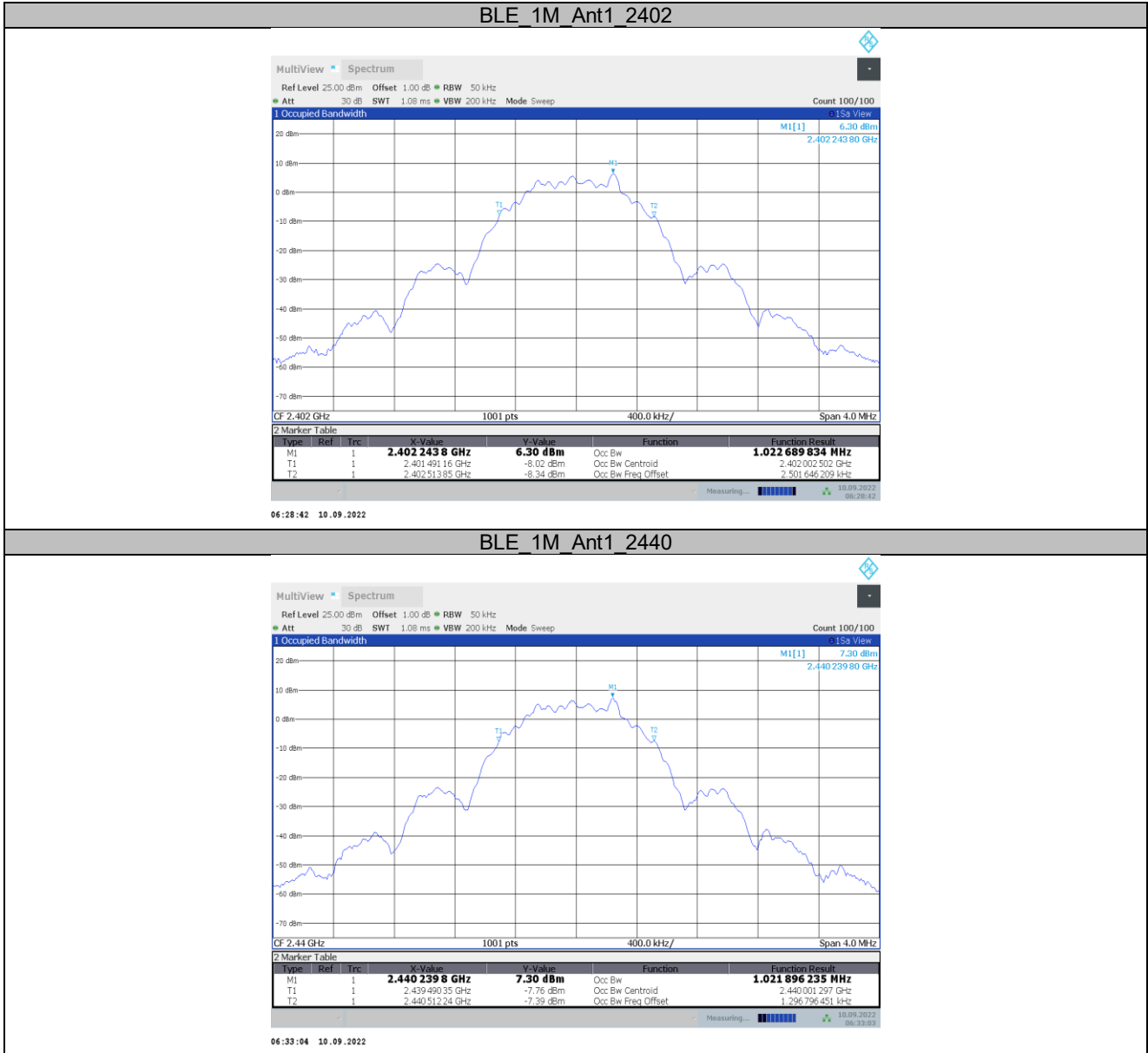


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Test Graphs



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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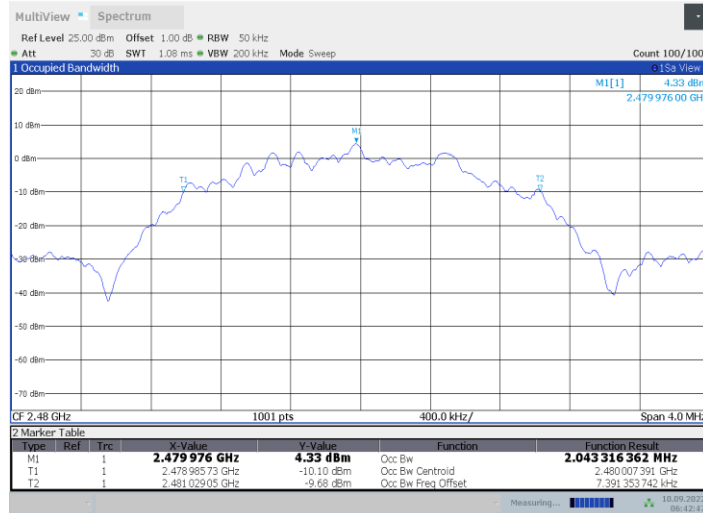
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BLE_2M_Ant1_2440



06:41:17 10.09.2022

BLE_2M_Ant1_2480



06:42:47 10.09.2022



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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	Ant1	2402	7.54	≤30	PASS
		2440	8.57	≤30	PASS
		2480	7.29	≤30	PASS
BLE_2M	Ant1	2402	7.52	≤30	PASS
		2440	8.59	≤30	PASS
		2480	7.42	≤30	PASS



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Report No.: SEWM2209000170RG04

Rev.: 01

Page: 38 of 76

**Maximum power spectral density
Test Result**

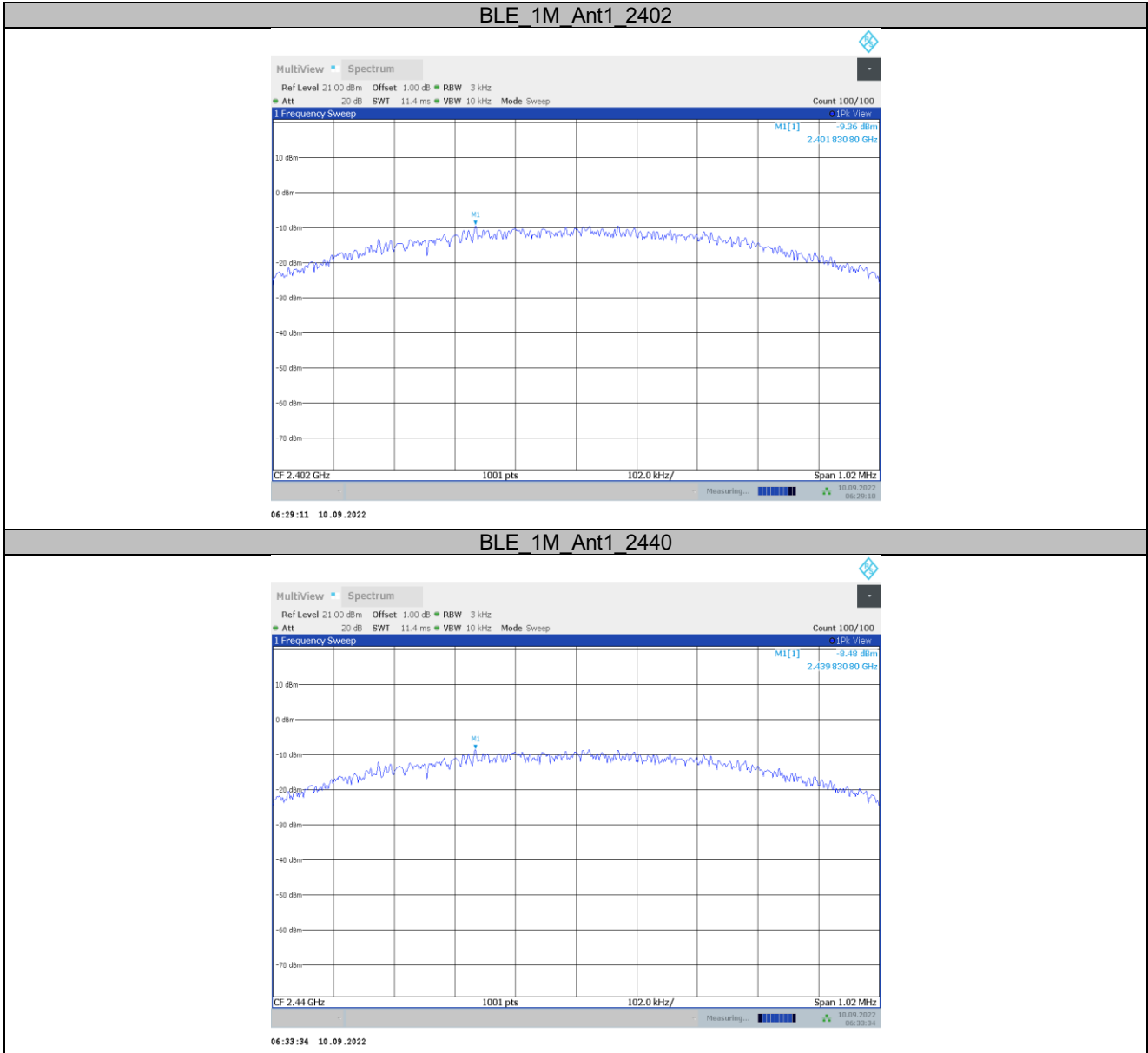
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.36	≤8.00	PASS
		2440	-8.48	≤8.00	PASS
		2480	-9.59	≤8.00	PASS
BLE_2M	Ant1	2402	-11.29	≤8.00	PASS
		2440	-10.36	≤8.00	PASS
		2480	-11.62	≤8.00	PASS



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Test Graphs

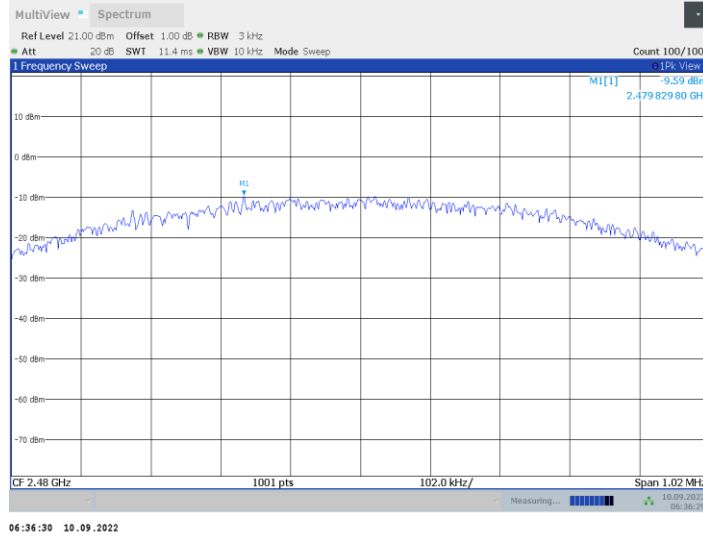


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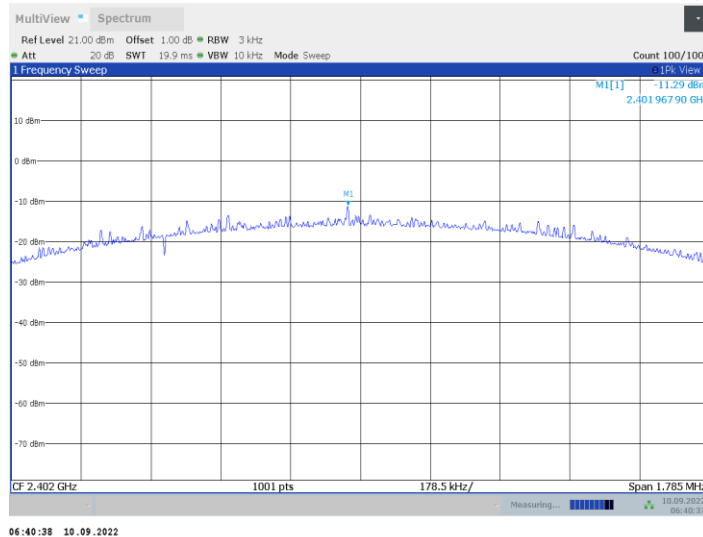
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

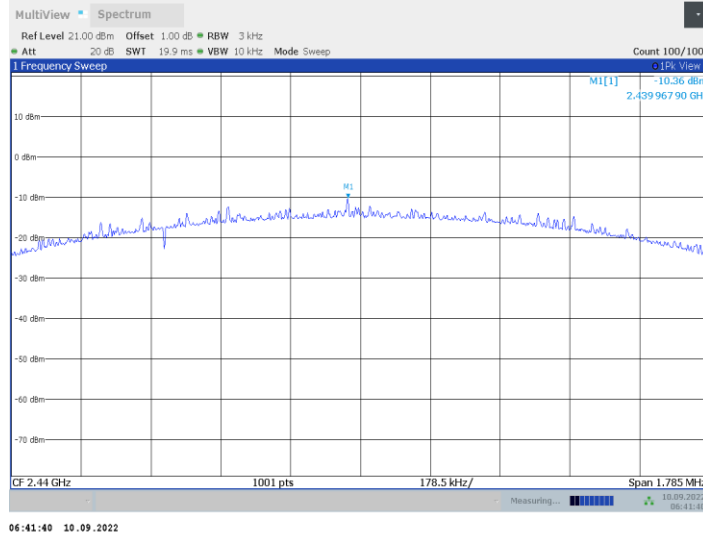


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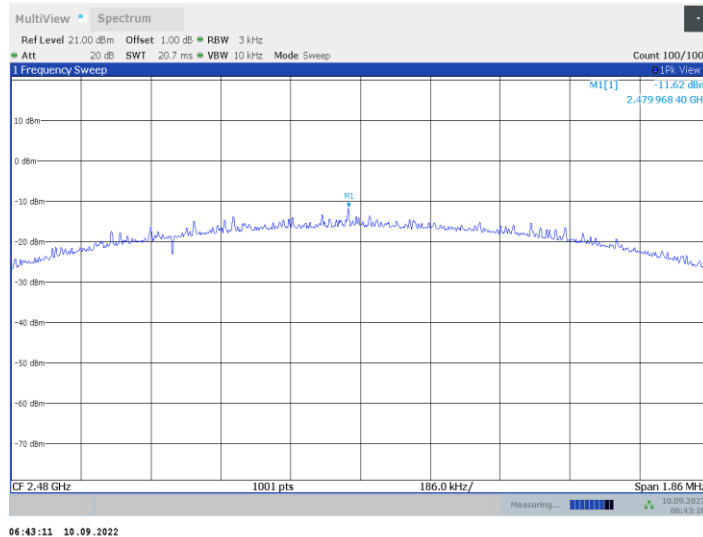
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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Band edge measurements Test Graphs

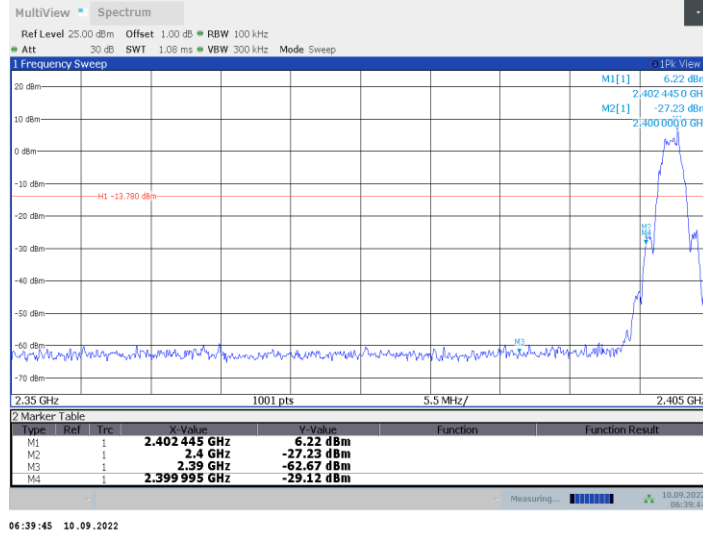


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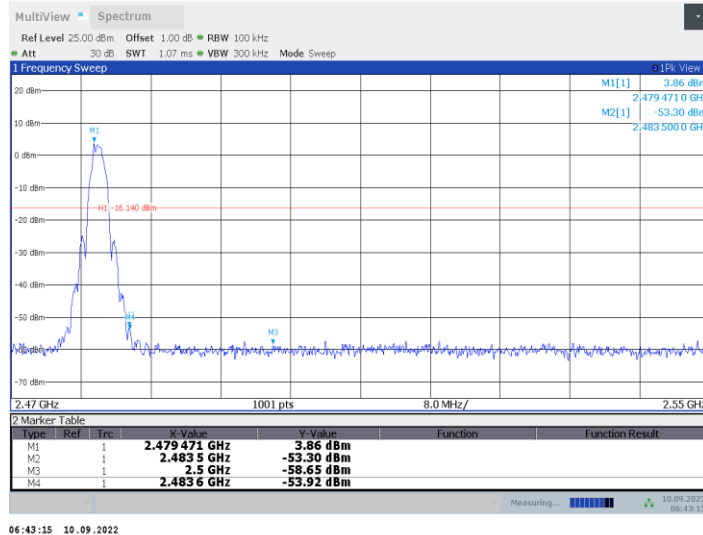
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BLE_2M_Ant1_Low_2402



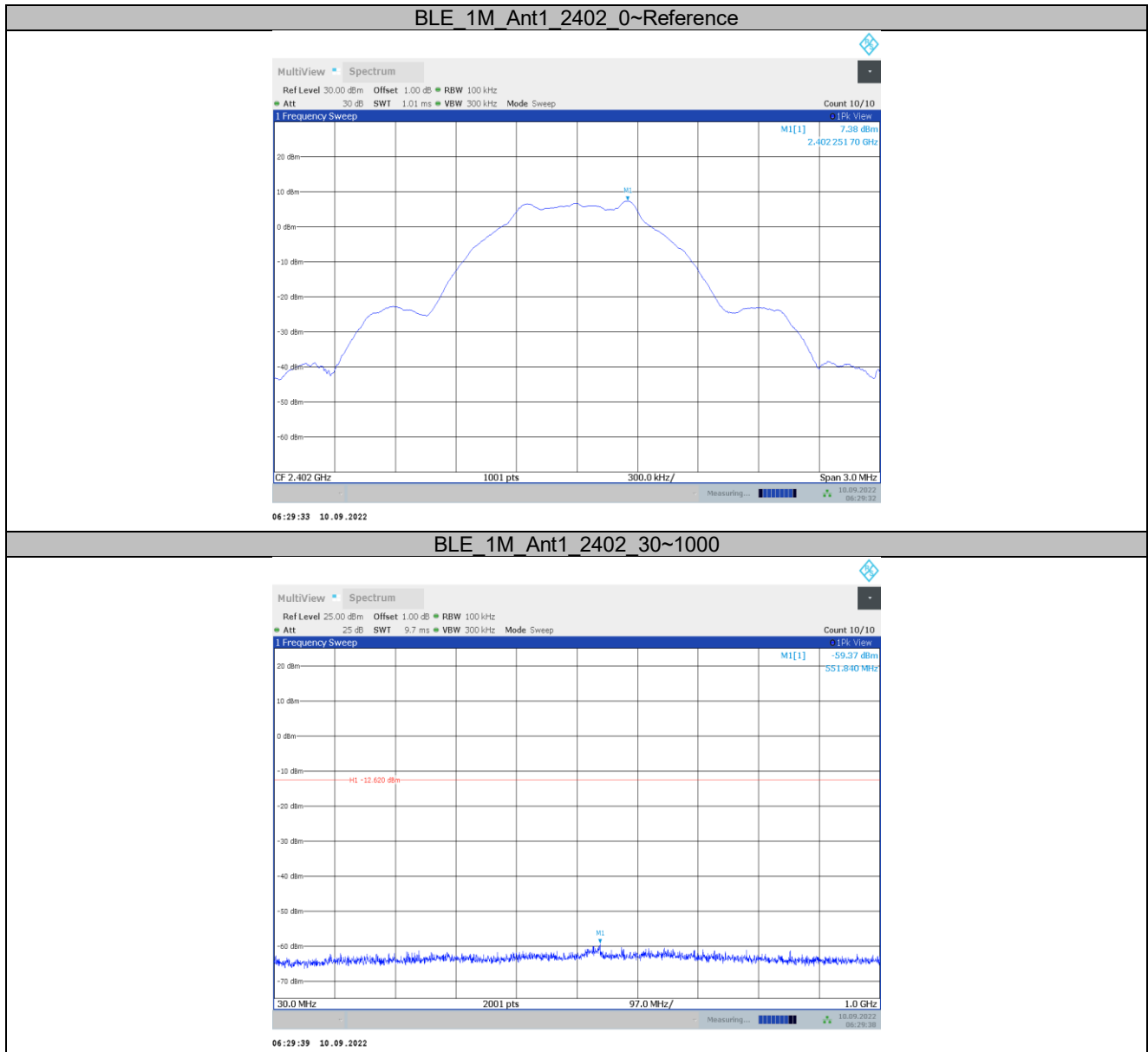
BLE_2M_Ant1_High_2480



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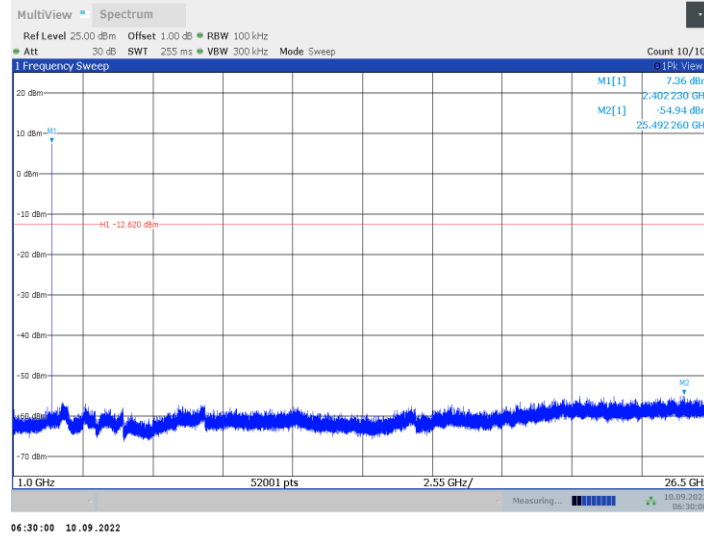
Conducted Spurious Emission Test Graphs



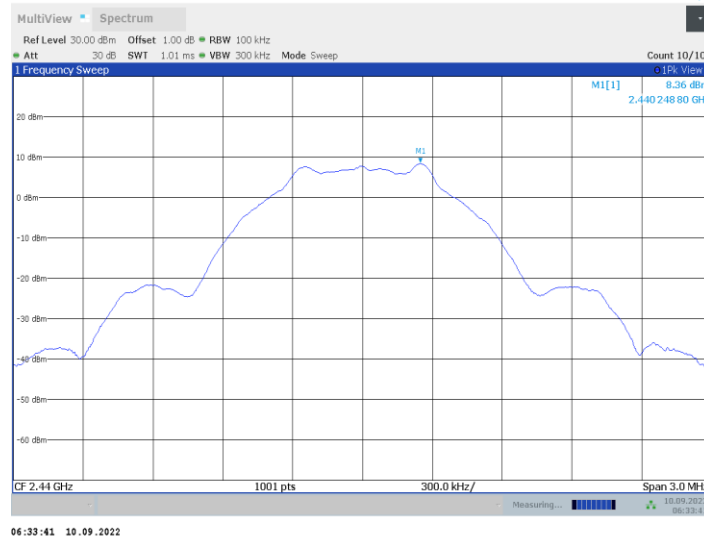
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BLE_1M_Ant1_2440_0~Reference

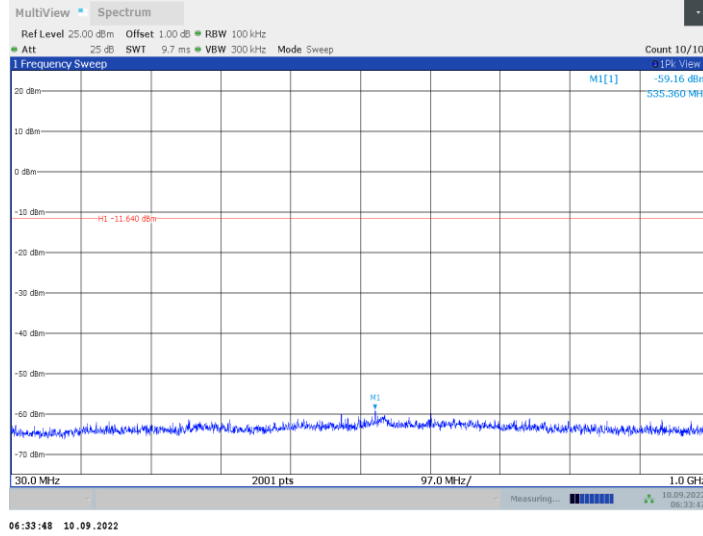


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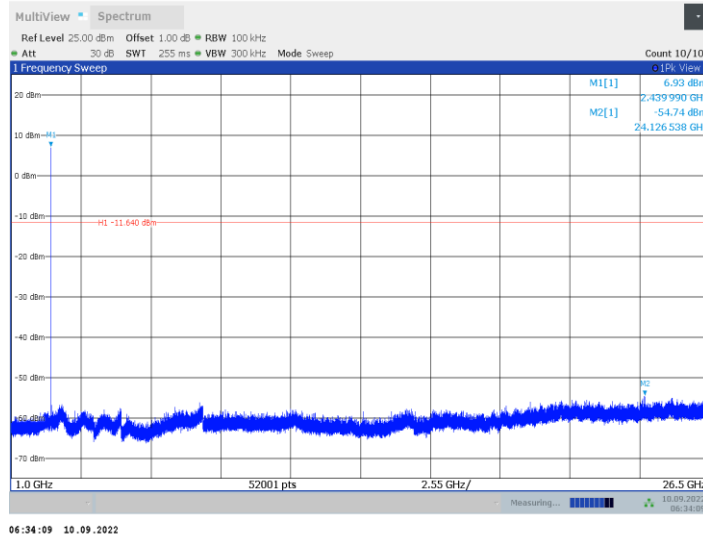
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BLE_1M_Ant1_2440_30~1000



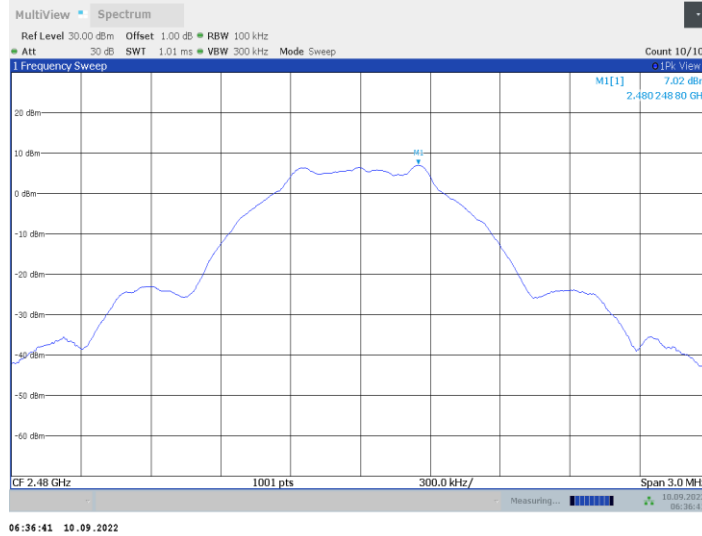
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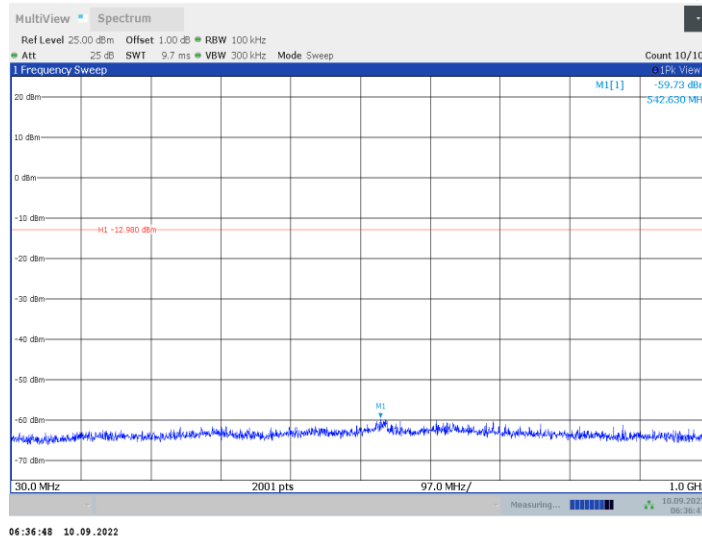
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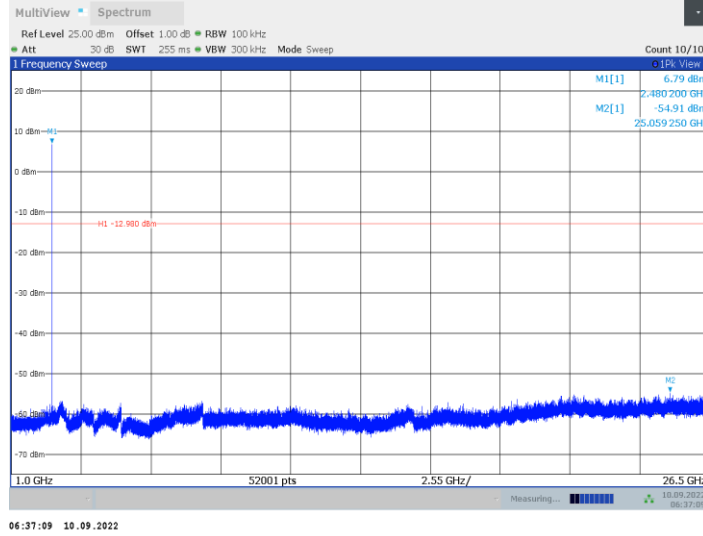


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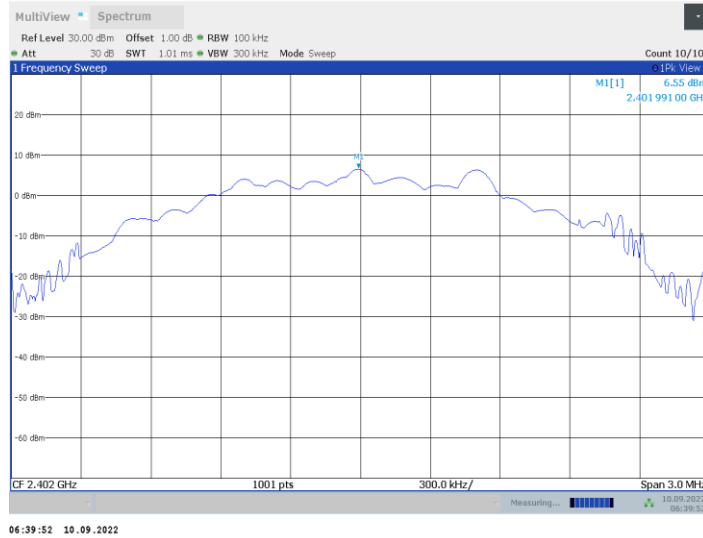
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BLE_1M_Ant1_2480_1000~26500



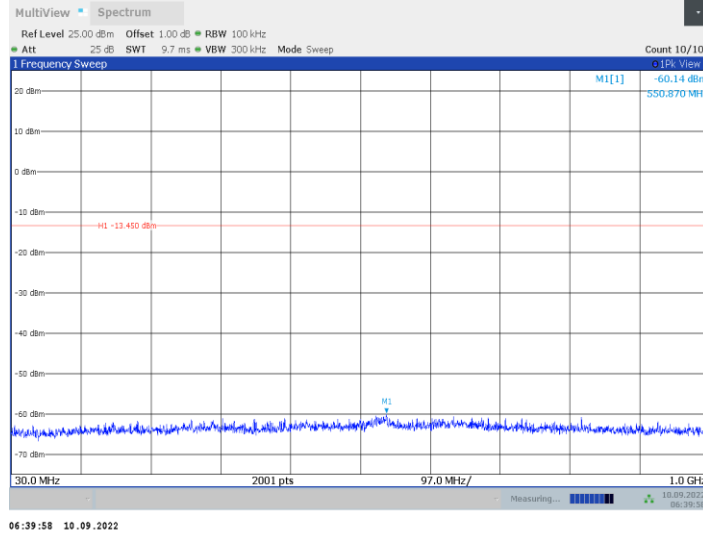
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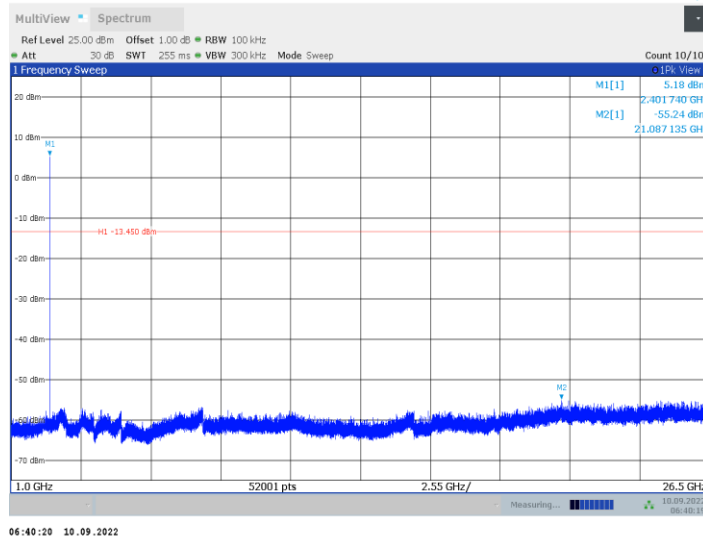
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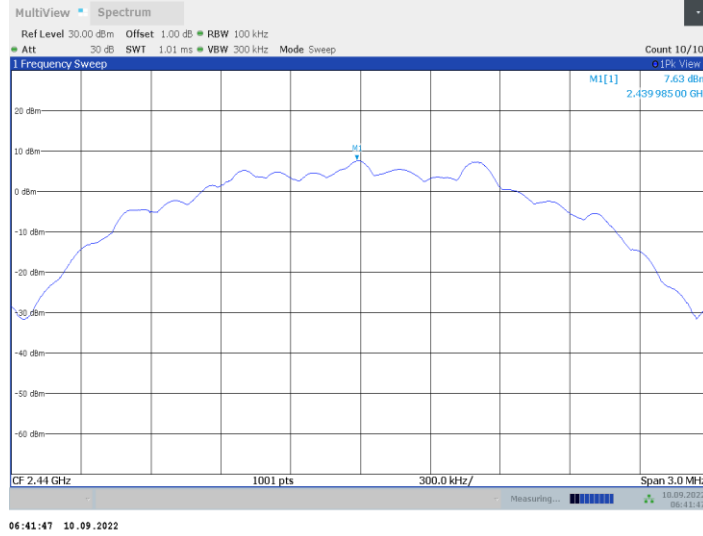
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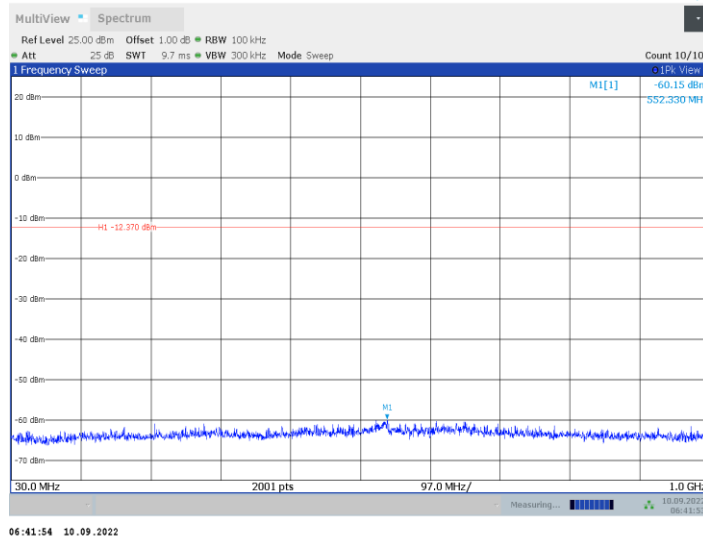
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BLE 2M Ant1 2440_0~Reference



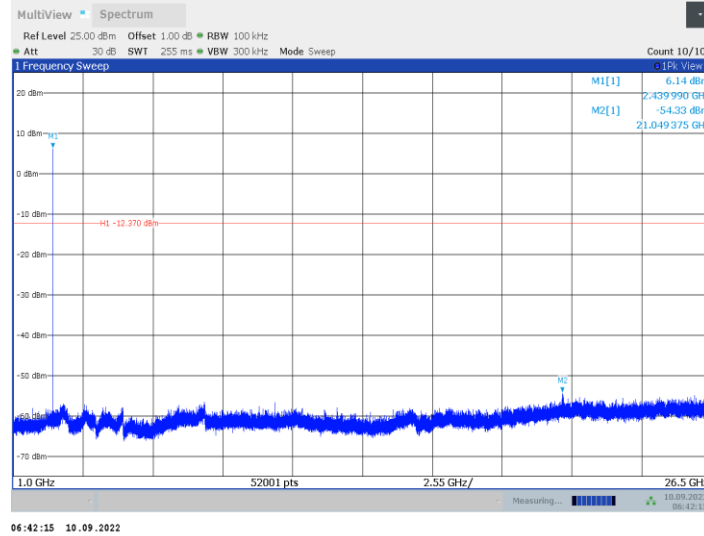
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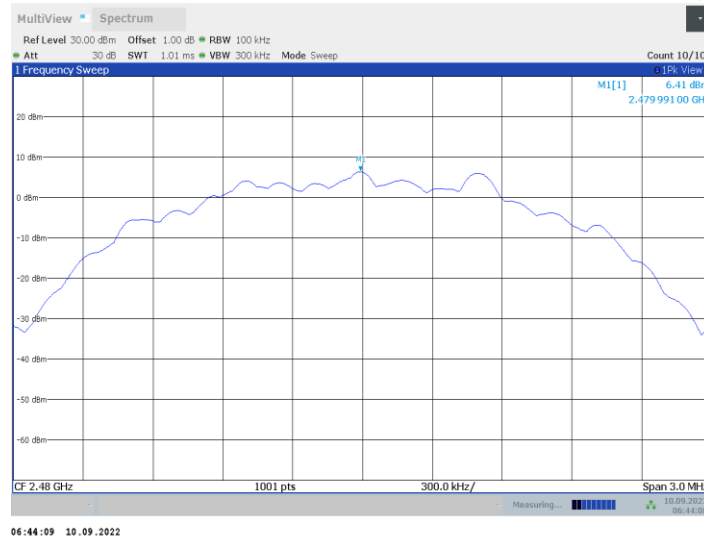
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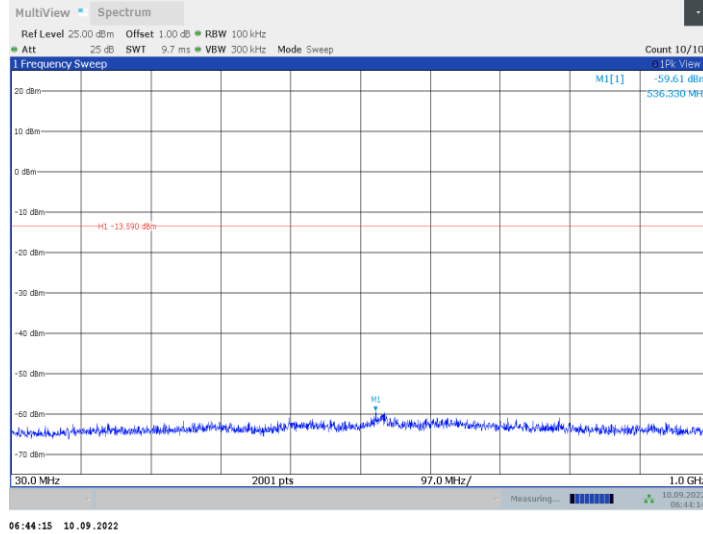
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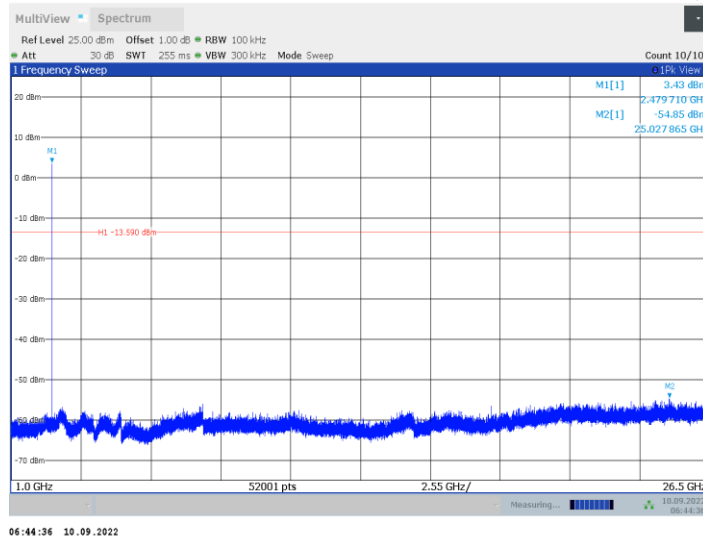
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Report No.: SEWM2209000170RG04

Rev.: 01

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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	Ant1	2402	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45

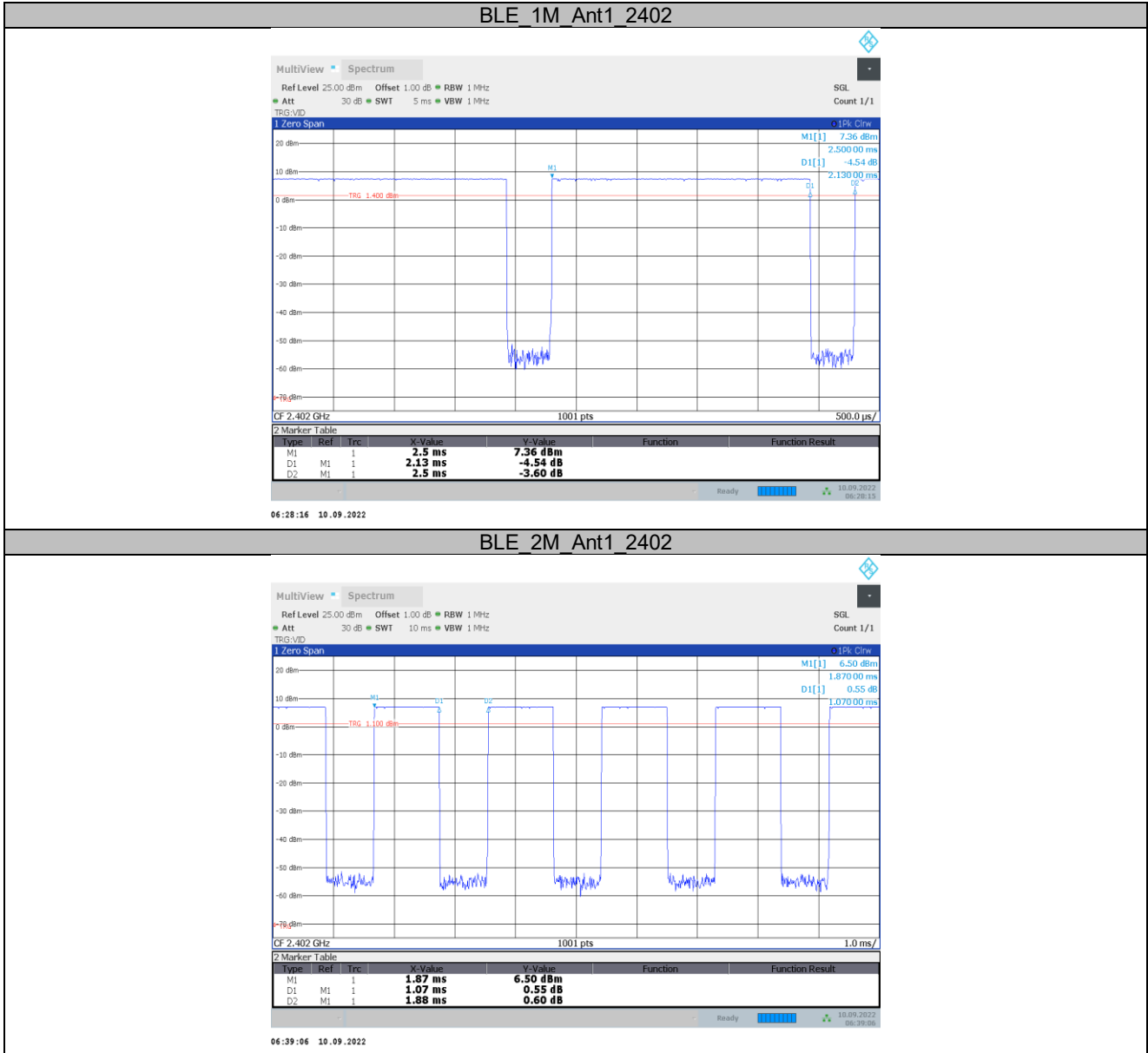


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Test Graphs



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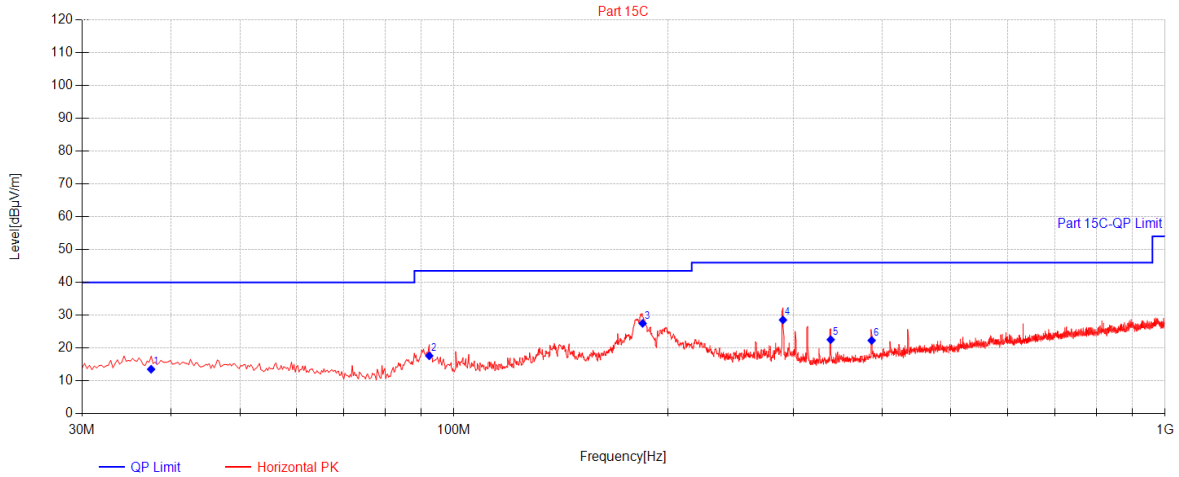
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M _ Channel 00



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.5175	36.13	-36.38	13.73	13.49	40.00	26.51	215	218	Horizontal
2	92.3225	44.26	-36.27	9.60	17.59	43.50	25.91	142	325	Horizontal
3	184.23	49.12	-35.31	13.67	27.48	43.50	16.02	136	357	Horizontal
4	290.2025	50.03	-34.06	12.56	28.53	46.00	17.47	269	3	Horizontal
5	338.7025	43.02	-34.10	13.60	22.52	46.00	23.48	155	12	Horizontal
6	386.7175	41.22	-33.46	14.50	22.26	46.00	23.74	191	197	Horizontal

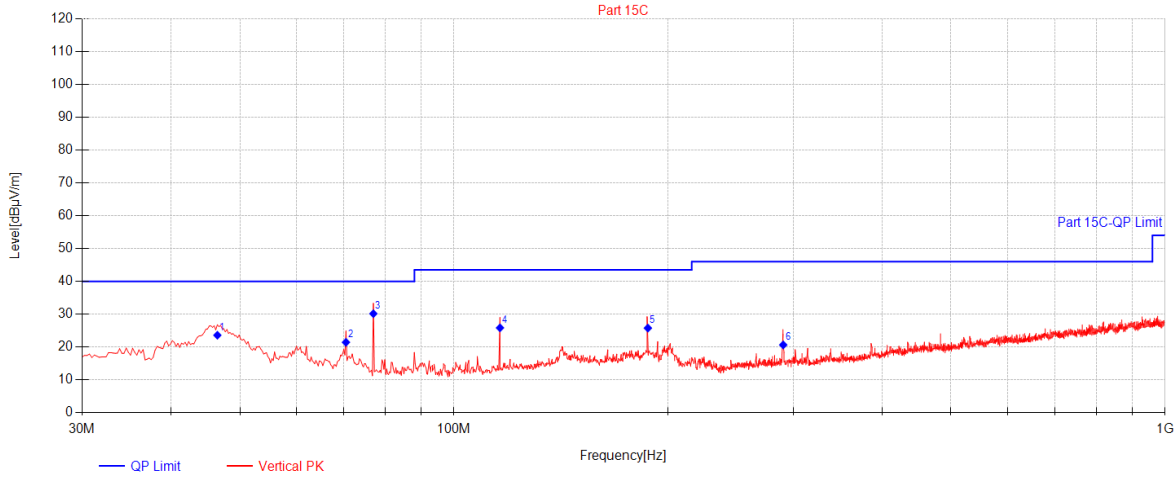


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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.49	46.13	-36.19	13.62	23.56	40.00	16.44	255	177	Vertical
2	70.4975	47.13	-36.48	10.74	21.40	40.00	18.60	142	138	Vertical
3	77.045	56.29	-35.89	9.74	30.14	40.00	9.86	136	134	Vertical
4	116.0875	50.16	-36.15	11.81	25.82	43.50	17.68	266	146	Vertical
5	187.3825	48.19	-35.37	12.92	25.74	43.50	17.76	199	146	Vertical
6	290.445	42.11	-34.06	12.56	20.61	46.00	25.39	147	73	Vertical

Remark:

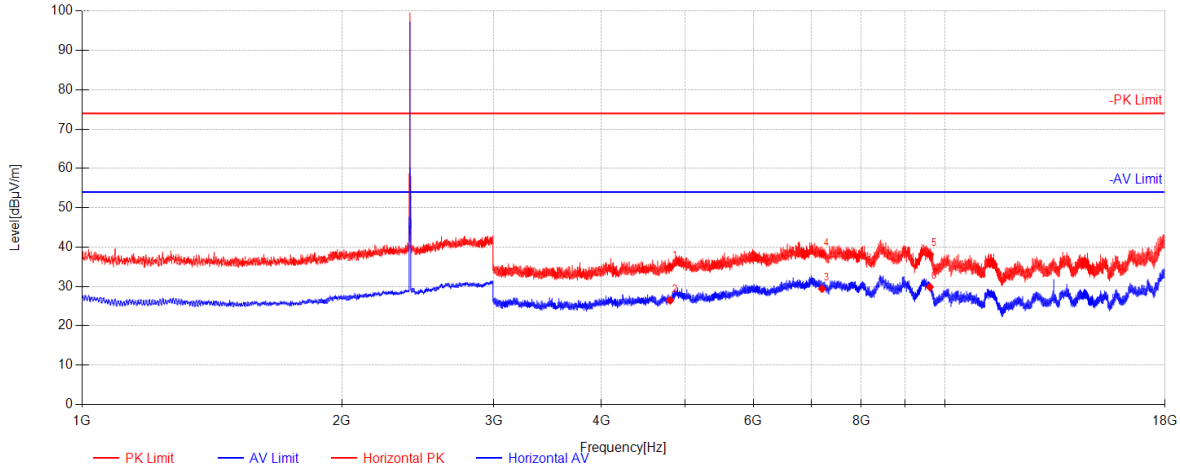
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.



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Transmitter emission Above 1GHz

BLE 1M_Channel 00



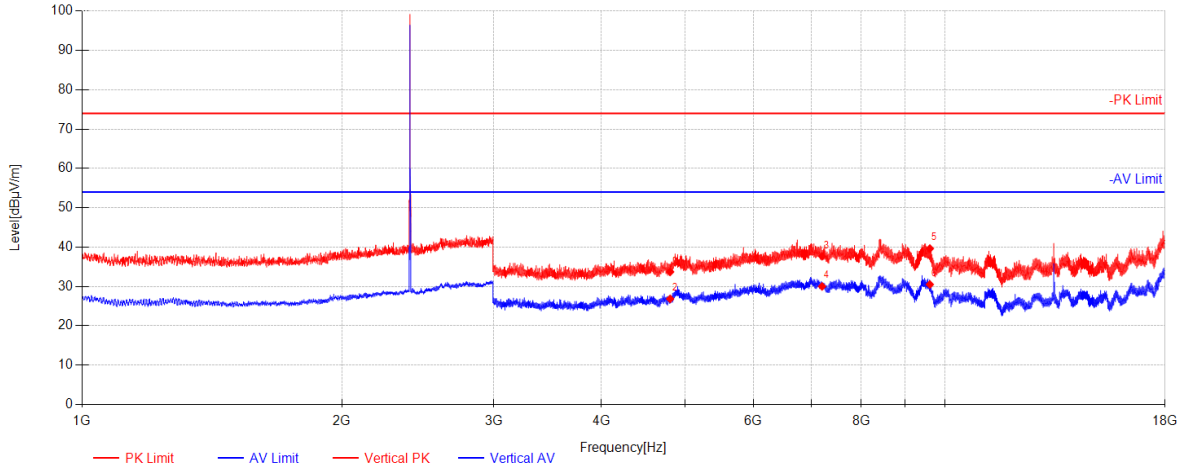
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.18	32.33	-45.54	34.97	74.00	39.03	168	336	Horizontal
2	4804.0000	39.68	32.33	-45.54	26.47	54.00	27.53	125	354	Horizontal
3	7206.0000	36.26	36.60	-43.44	29.42	54.00	24.58	133	56	Horizontal
4	7206.0000	45.15	36.60	-43.44	38.31	74.00	35.69	145	28	Horizontal
5	9608.0000	39.36	38.43	-39.65	38.14	74.00	35.86	195	112	Horizontal
6	9608.0000	31.08	38.43	-39.65	29.86	54.00	24.14	147	196	Horizontal



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BLE 1M_Channel 00



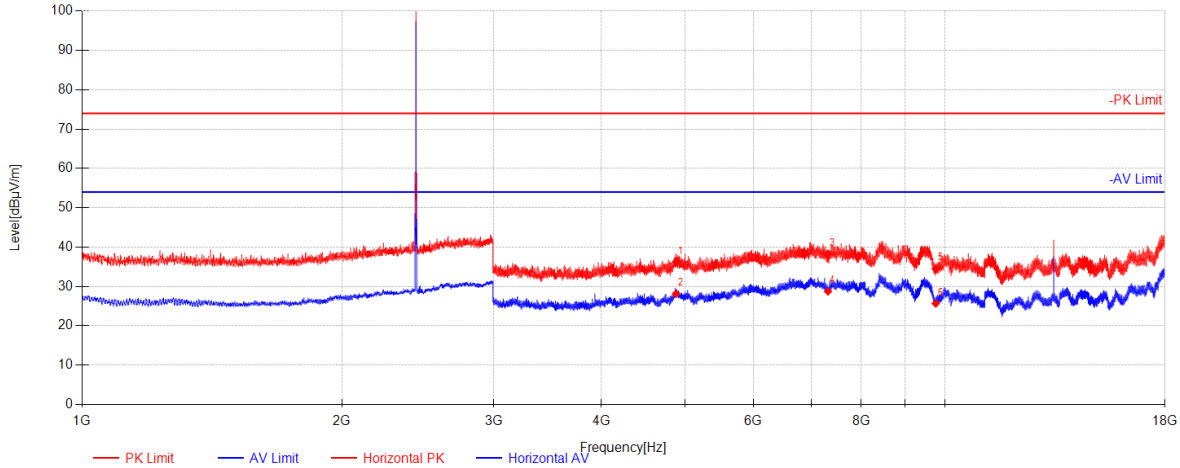
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	46.92	32.33	-45.54	33.71	74.00	40.29	254	4	Vertical
2	4804.0000	40.06	32.33	-45.54	26.85	54.00	27.15	145	355	Vertical
3	7206.0000	44.51	36.60	-43.44	37.67	74.00	36.33	126	28	Vertical
4	7206.0000	36.84	36.60	-43.44	30.00	54.00	24.00	136	355	Vertical
5	9608.0000	40.85	38.43	-39.65	39.63	74.00	34.37	298	196	Vertical
6	9608.0000	31.72	38.43	-39.65	30.50	54.00	23.50	222	307	Vertical



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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	49.15	32.54	-45.53	36.16	74.00	37.84	124	55	Horizontal
2	4880.0000	41.11	32.54	-45.53	28.12	54.00	25.88	192	251	Horizontal
3	7320.0000	45.42	36.53	-43.68	38.27	74.00	35.73	185	55	Horizontal
4	7320.0000	35.91	36.53	-43.68	28.76	54.00	25.24	173	55	Horizontal
5	9760.0000	35.69	38.26	-39.46	34.49	74.00	39.51	146	166	Horizontal
6	9760.0000	26.88	38.26	-39.46	25.68	54.00	28.32	211	280	Horizontal

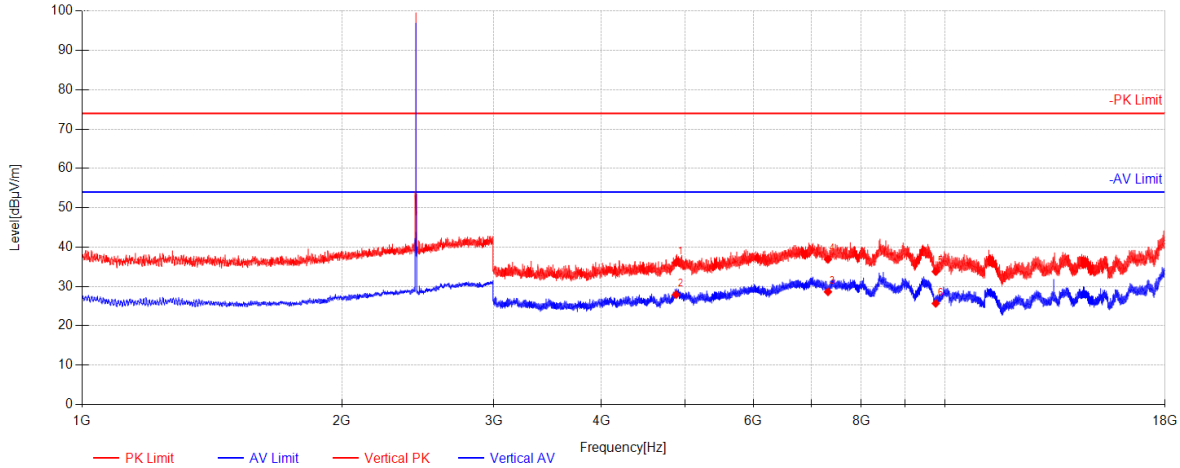


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BLE 1M_Channel 19

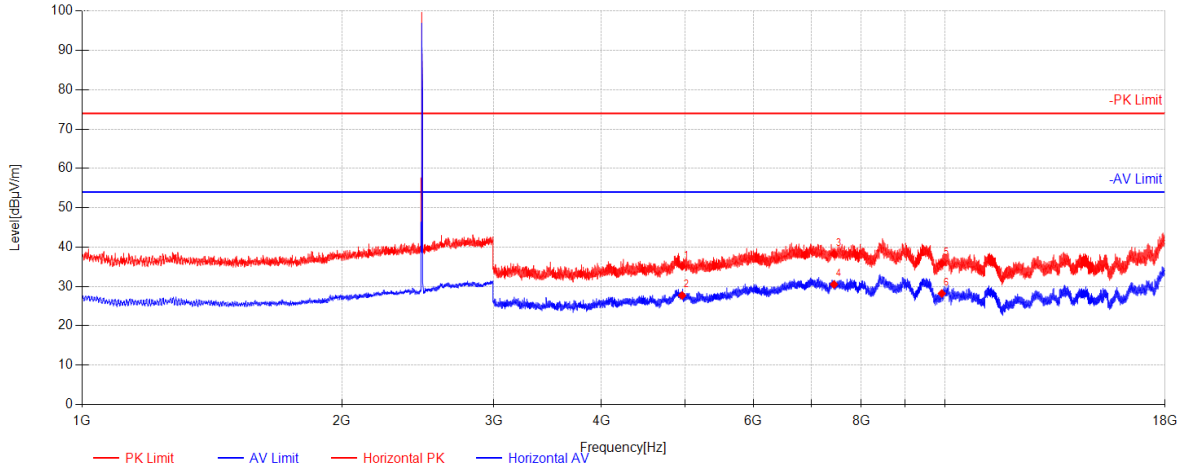


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.03	32.54	-45.53	36.04	74.00	37.96	155	226	Vertical
2	4880.0000	40.89	32.54	-45.53	27.90	54.00	26.10	281	57	Vertical
3	7320.0000	35.78	36.53	-43.68	28.63	54.00	25.37	142	222	Vertical
4	7320.0000	44.04	36.53	-43.68	36.89	74.00	37.11	146	139	Vertical
5	9760.0000	34.97	38.26	-39.46	33.77	74.00	40.23	269	305	Vertical
6	9760.0000	26.88	38.26	-39.46	25.68	54.00	28.32	136	139	Vertical



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BLE 1M_Channel 39



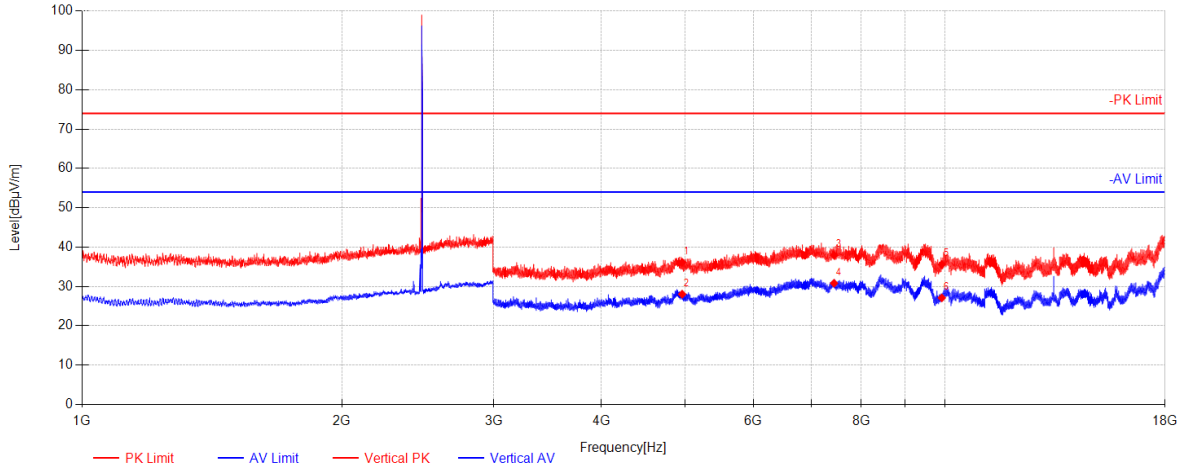
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	47.95	32.77	-45.60	35.12	74.00	38.88	125	196	Horizontal
2	4960.0000	40.54	32.77	-45.60	27.71	54.00	26.29	158	360	Horizontal
3	7440.0000	45.08	36.47	-43.30	38.25	74.00	35.75	145	56	Horizontal
4	7440.0000	37.33	36.47	-43.30	30.50	54.00	23.50	172	279	Horizontal
5	9920.0000	36.78	38.38	-39.31	35.85	74.00	38.15	268	305	Horizontal
6	9920.0000	29.15	38.38	-39.31	28.22	54.00	25.78	193	111	Horizontal



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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	48.97	32.77	-45.60	36.14	74.00	37.86	226	55	Vertical
2	4960.0000	40.87	32.77	-45.60	28.04	54.00	25.96	185	250	Vertical
3	7440.0000	44.76	36.47	-43.30	37.93	74.00	36.07	125	278	Vertical
4	7440.0000	37.65	36.47	-43.30	30.82	54.00	23.18	149	140	Vertical
5	9920.0000	36.55	38.38	-39.31	35.62	74.00	38.38	145	140	Vertical
6	9920.0000	28.02	38.38	-39.31	27.09	54.00	26.91	172	166	Vertical

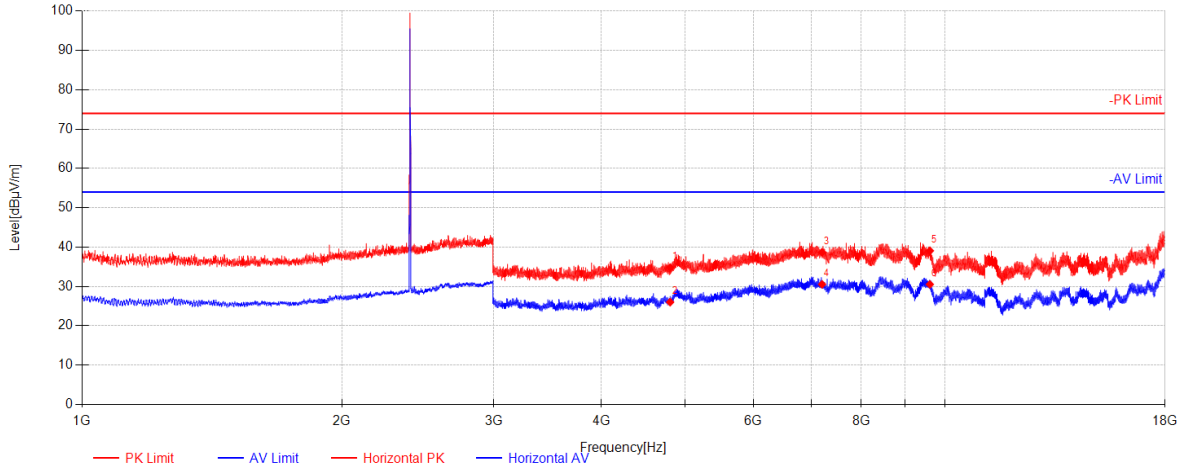


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BLE 2M_Channel 00



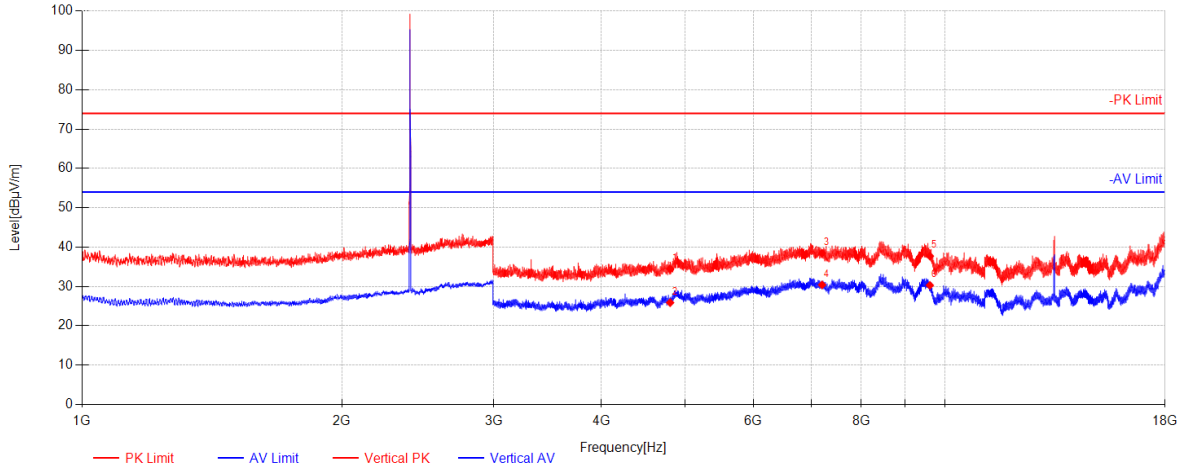
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.00	32.33	-45.54	34.79	74.00	39.21	256	195	Horizontal
2	4804.0000	39.22	32.33	-45.54	26.01	54.00	27.99	125	337	Horizontal
3	7206.0000	45.51	36.60	-43.44	38.67	74.00	35.33	148	251	Horizontal
4	7206.0000	37.38	36.60	-43.44	30.54	54.00	23.46	147	56	Horizontal
5	9608.0000	40.29	38.43	-39.65	39.07	74.00	34.93	196	280	Horizontal
6	9608.0000	31.74	38.43	-39.65	30.52	54.00	23.48	130	167	Horizontal



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BLE 2M_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	47.69	32.33	-45.54	34.48	74.00	39.52	216	221	Vertical
2	4804.0000	39.08	32.33	-45.54	25.87	54.00	28.13	175	360	Vertical
3	7206.0000	45.29	36.60	-43.44	38.45	74.00	35.55	158	84	Vertical
4	7206.0000	37.25	36.60	-43.44	30.41	54.00	23.59	142	279	Vertical
5	9608.0000	38.94	38.43	-39.65	37.72	74.00	36.28	149	250	Vertical
6	9608.0000	31.51	38.43	-39.65	30.29	54.00	23.71	130	353	Vertical

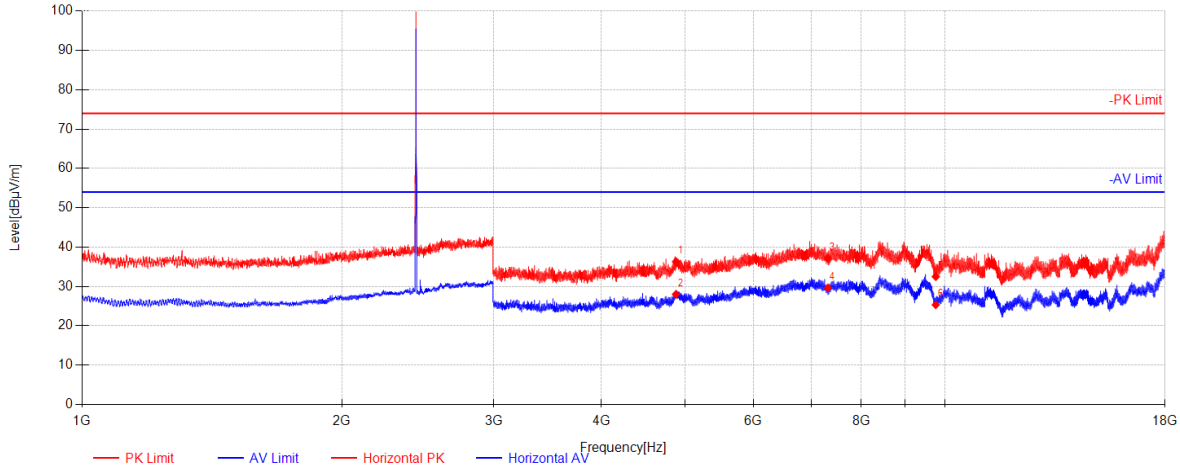


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BLE 2M_Channel 19



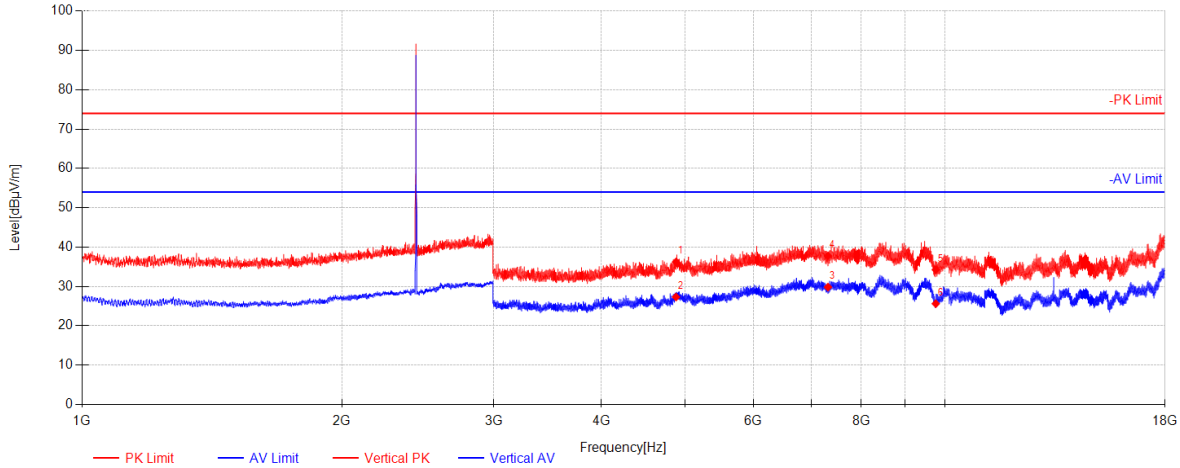
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.29	32.54	-45.53	36.30	74.00	37.70	211	141	Horizontal
2	4880.0000	40.99	32.54	-45.53	28.00	54.00	26.00	172	57	Horizontal
3	7320.0000	44.29	36.53	-43.68	37.14	74.00	36.86	269	169	Horizontal
4	7320.0000	36.79	36.53	-43.68	29.64	54.00	24.36	143	307	Horizontal
5	9760.0000	33.69	38.26	-39.46	32.49	74.00	41.51	281	353	Horizontal
6	9760.0000	26.53	38.26	-39.46	25.33	54.00	28.67	216	336	Horizontal



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BLE 2M_Channel 19



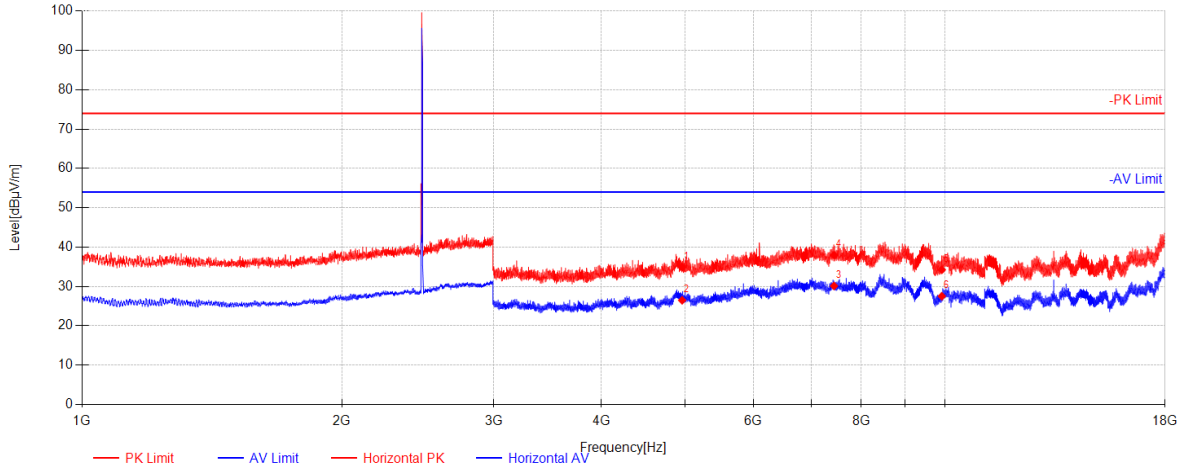
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.21	32.54	-45.53	36.22	74.00	37.78	215	141	Vertical
2	4880.0000	40.30	32.54	-45.53	27.31	54.00	26.69	175	338	Vertical
3	7320.0000	36.98	36.53	-43.68	29.83	54.00	24.17	142	167	Vertical
4	7320.0000	44.93	36.53	-43.68	37.78	74.00	36.22	168	225	Vertical
5	9760.0000	35.46	38.26	-39.46	34.26	74.00	39.74	149	225	Vertical
6	9760.0000	26.82	38.26	-39.46	25.62	54.00	28.38	108	354	Vertical



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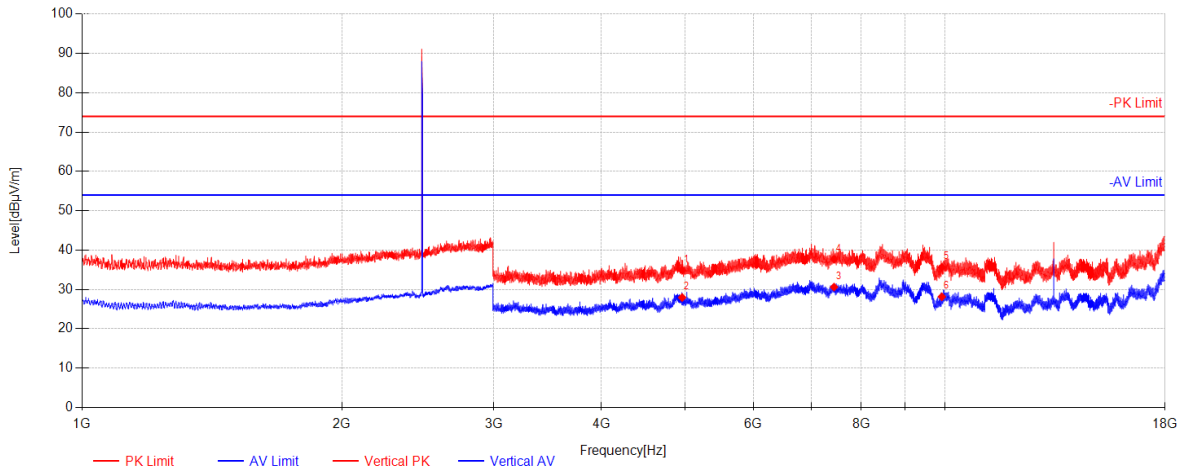
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	47.71	32.77	-45.60	34.88	74.00	39.12	165	54	Horizontal
2	4960.0000	39.31	32.77	-45.60	26.48	54.00	27.52	142	359	Horizontal
3	7440.0000	36.95	36.47	-43.30	30.12	54.00	23.88	133	359	Horizontal
4	7440.0000	44.78	36.47	-43.30	37.95	74.00	36.05	145	222	Horizontal
5	9920.0000	35.17	38.38	-39.31	34.24	74.00	39.76	291	353	Horizontal
6	9920.0000	28.45	38.38	-39.31	27.52	54.00	26.48	216	139	Horizontal



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BLE 2M_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	47.73	32.77	-45.60	34.90	74.00	39.10	215	55	Vertical
2	4960.0000	40.79	32.77	-45.60	27.96	54.00	26.04	236	352	Vertical
3	7440.0000	37.43	36.47	-43.30	30.60	54.00	23.40	255	194	Vertical
4	7440.0000	44.52	36.47	-43.30	37.69	74.00	36.31	145	222	Vertical
5	9920.0000	36.58	38.38	-39.31	35.65	74.00	38.35	216	222	Vertical
6	9920.0000	29.08	38.38	-39.31	28.15	54.00	25.85	185	194	Vertical

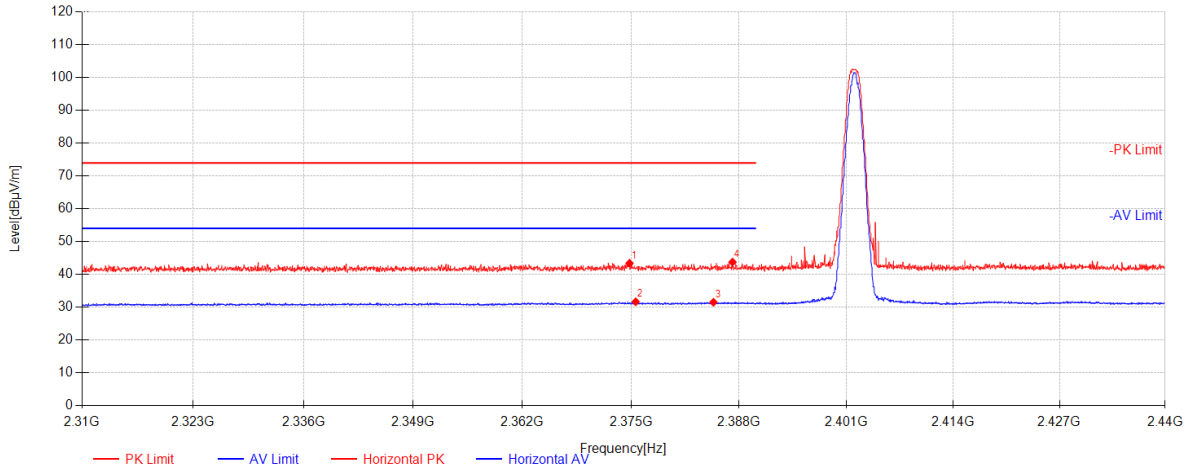
Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 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)
- All channels have been tested, but only the worst case data displayed in this report.



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	2374.8267	39.53	27.43	-23.57	43.38	74.00	30.62	169	250	Horizontal
2	2375.5633	27.78	27.43	-23.57	31.64	54.00	22.36	169	250	Horizontal
3	2384.9233	27.63	27.43	-23.57	31.49	54.00	22.51	169	250	Horizontal
4	2387.22	39.88	27.43	-23.57	43.74	74.00	30.26	169	250	Horizontal



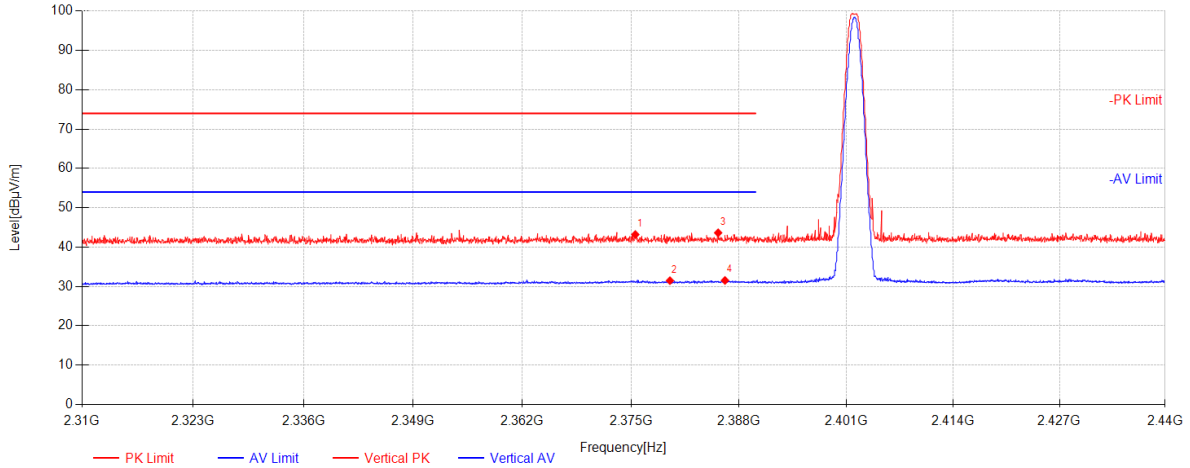
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BLE 1M_Channel 00



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	2375.52	39.34	27.43	-23.57	43.20	74.00	30.80	216	320	Vertical
2	2379.68	27.61	27.43	-23.57	31.47	54.00	22.53	216	320	Vertical
3	2385.4867	39.78	27.43	-23.57	43.64	74.00	30.36	216	320	Vertical
4	2386.31	27.67	27.43	-23.57	31.53	54.00	22.47	216	320	Vertical



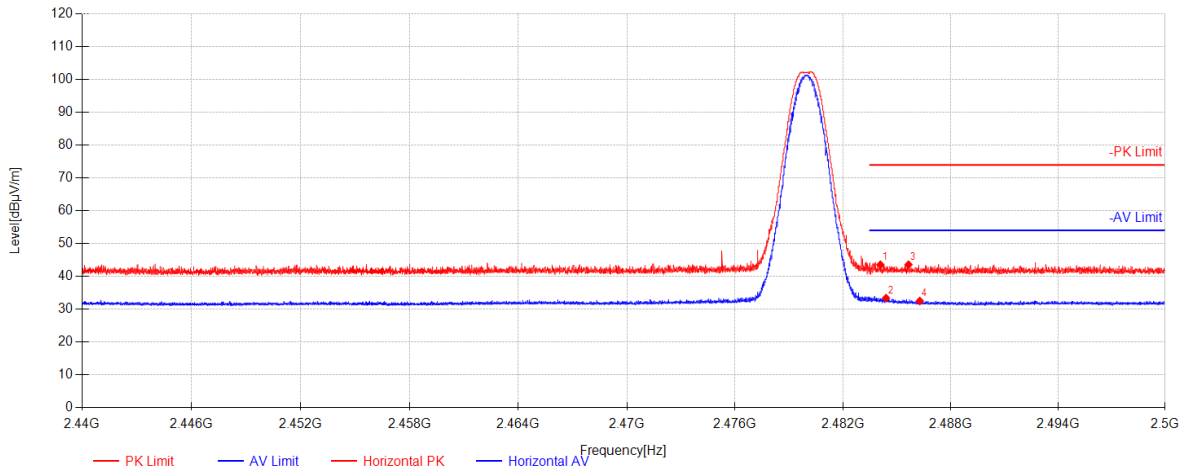
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.085	39.37	27.72	-23.54	43.54	74.00	30.46	129	303	Horizontal
2	2484.4	29.20	27.72	-23.54	33.37	54.00	20.63	129	303	Horizontal
3	2485.6525	39.39	27.72	-23.54	43.57	74.00	30.43	129	303	Horizontal
4	2486.2825	28.30	27.72	-23.54	32.48	54.00	21.52	129	303	Horizontal

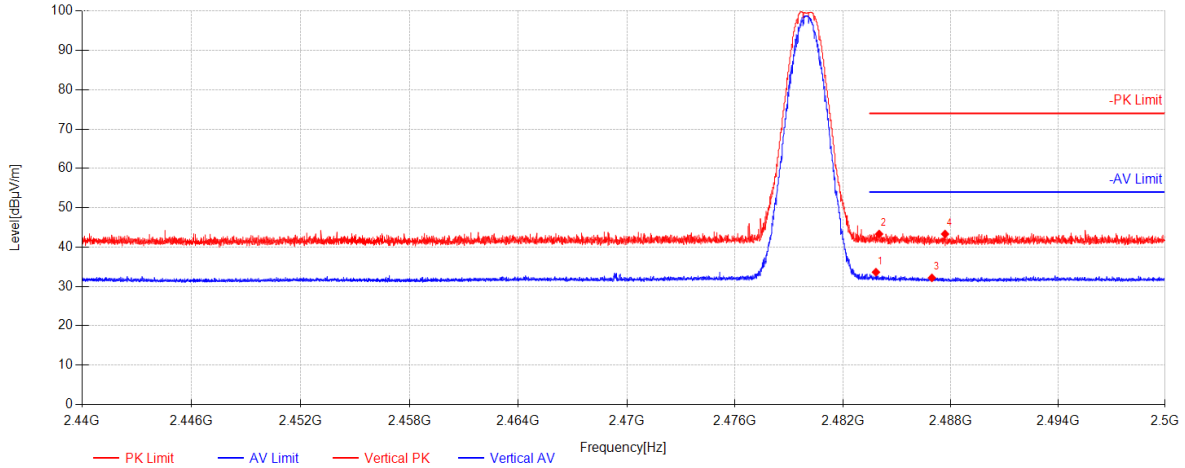


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1	2483.8375	29.45	27.72	-23.54	33.62	54.00	20.38	294	145	Vertical
2	2484.0175	39.16	27.72	-23.54	43.33	74.00	30.67	294	145	Vertical
3	2486.9575	28.00	27.73	-23.54	32.18	54.00	21.82	294	145	Vertical
4	2487.6925	39.13	27.73	-23.54	43.32	74.00	30.68	294	145	Vertical

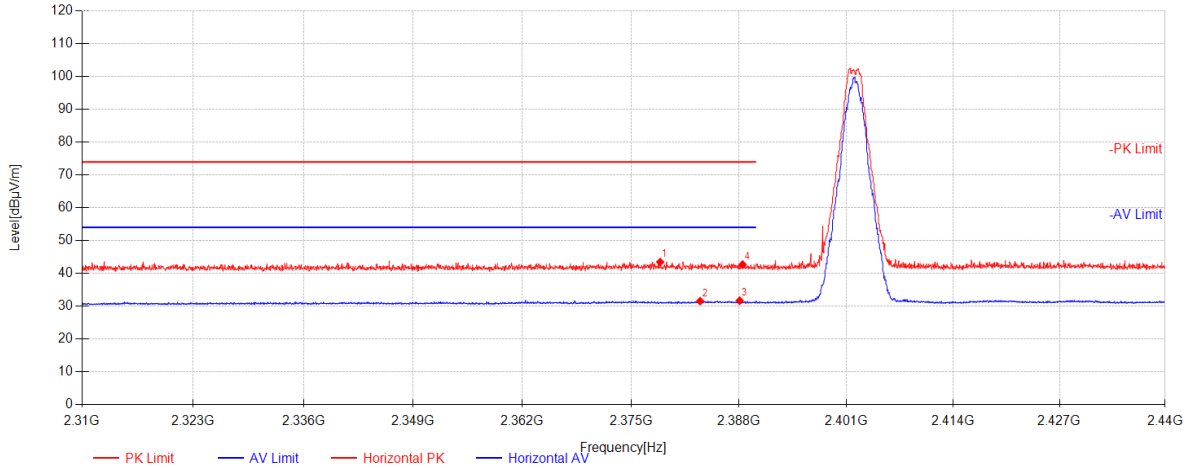


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BLE 2M_Channel 00



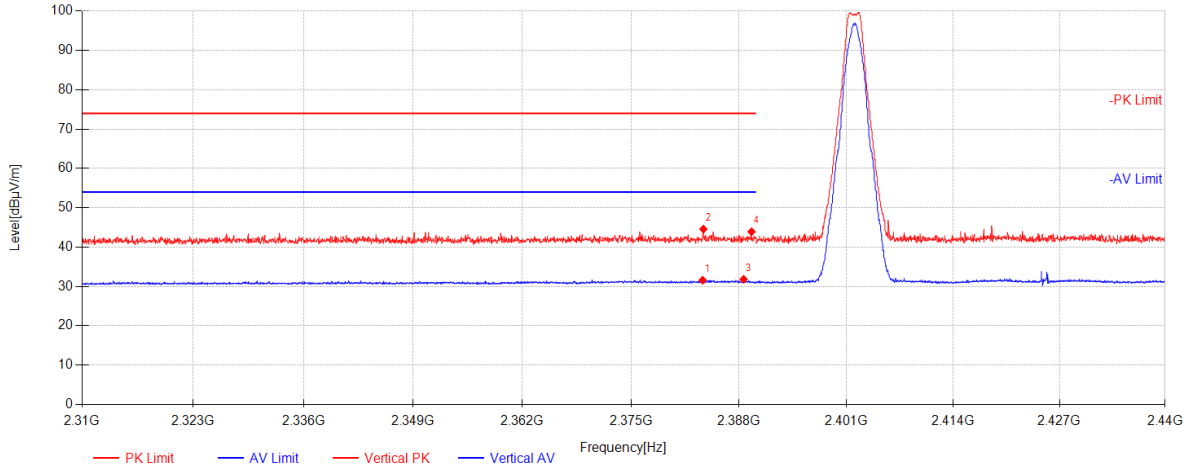
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.51	39.61	27.43	-23.57	43.47	74.00	30.53	266	200	Horizontal
2	2383.32	27.66	27.43	-23.57	31.52	54.00	22.48	266	200	Horizontal
3	2388.0867	27.80	27.43	-23.57	31.66	54.00	22.34	266	200	Horizontal
4	2388.4333	38.83	27.43	-23.57	42.69	74.00	31.31	266	200	Horizontal



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BLE 2M_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	2383.6233	27.73	27.43	-23.57	31.59	54.00	22.41	211	20	Vertical
2	2383.71	40.72	27.43	-23.57	44.58	74.00	29.42	211	20	Vertical
3	2388.5633	27.96	27.43	-23.57	31.82	54.00	22.18	211	20	Vertical
4	2389.5167	40.05	27.43	-23.57	43.91	74.00	30.09	211	20	Vertical

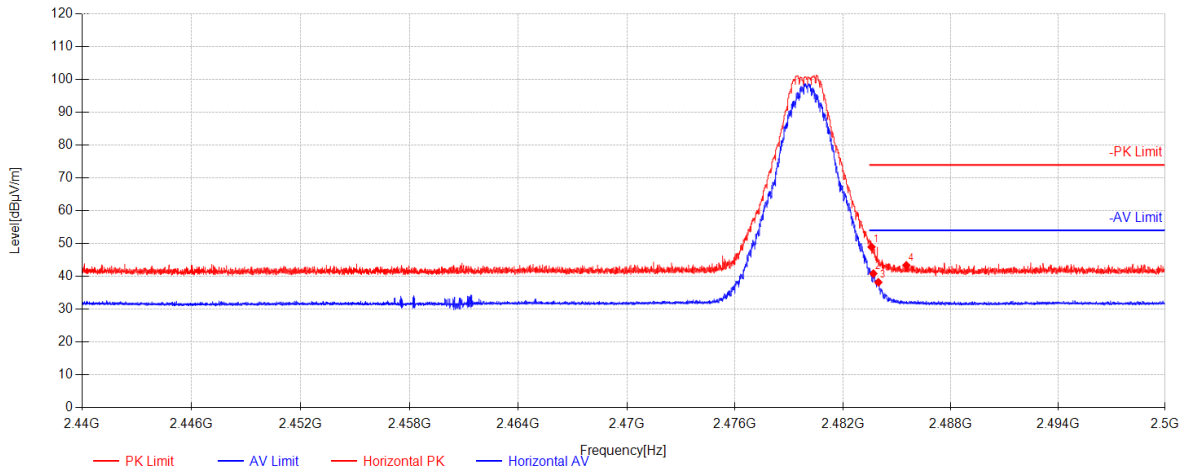


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BLE 2M_Channel 39



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	2483.59	44.80	27.72	-23.54	48.97	74.00	25.03	213	273	Horizontal
2	2483.695	36.67	27.72	-23.54	40.84	54.00	13.16	213	273	Horizontal
3	2483.9725	34.02	27.72	-23.54	38.19	54.00	15.81	213	273	Horizontal
4	2485.5325	39.17	27.72	-23.54	43.35	74.00	30.65	213	273	Horizontal



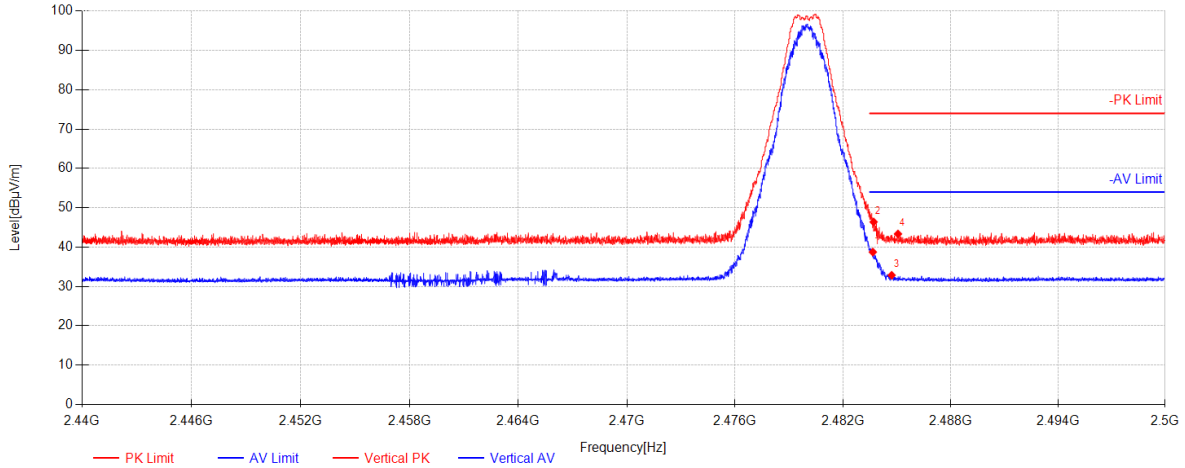
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.665	34.58	27.72	-23.54	38.75	54.00	15.25	266	262	Vertical
2	2483.71	42.23	27.72	-23.54	46.40	74.00	27.60	266	262	Vertical
3	2484.715	28.68	27.72	-23.54	32.85	54.00	21.15	266	262	Vertical
4	2485.0675	39.16	27.72	-23.54	43.34	74.00	30.66	266	262	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:

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

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

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

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$

---End of Report---



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