

Report No.: SEWM2212000302RG02
 Rev.: 01
 Page: 1 of 87

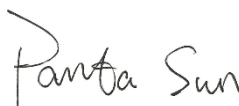
TEST REPORT

Application No.: SEWM2212000302RG
Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer: Lenovo PC HK Limited
Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description: Portable Tablet Computer
Model No.: Lenovo TB-X6E6F
Trade Mark: Lenovo
FCC ID: O57TBX6E6F
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/12/14
Date of Test: 2022/12/25 to 2023/01/12
Date of Issue: 2023/01/12

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		2023/01/12		Original

Prepared By		 <hr/> (King-p Li) / 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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3 General Information

3.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

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:	King-p Li, Ives 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:	Portable Tablet Computer	
Model No.:	Lenovo TB-X6E6F	
Trade Mark:	Lenovo	
Hardware Version:	Lenovo Tablet TB-X6E6F	
Software Version:	Lenovo TB-X6E6F_RF01_221201	
SN:	RF Conducted	HA1RLMQ0
	RSE & AC power line	HA1RLHF6 HA1RNS2E
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 V5.0	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type*:	<input checked="" type="checkbox"/> Provided by client	
	1M PHY	2M PHY
Antenna Type:	IFA Internal Antenna	
Antenna Gain:	-2.2dBi(Ant1)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
<p>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.</p> <p>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.</p>		



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

Remark:

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

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



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.86
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 IFA Internal Antenna and no consideration of replacement. The best case gain of the antenna is -2.2dBi(Ant1);*</p> <p><i>*Note: The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>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.</i></p>	



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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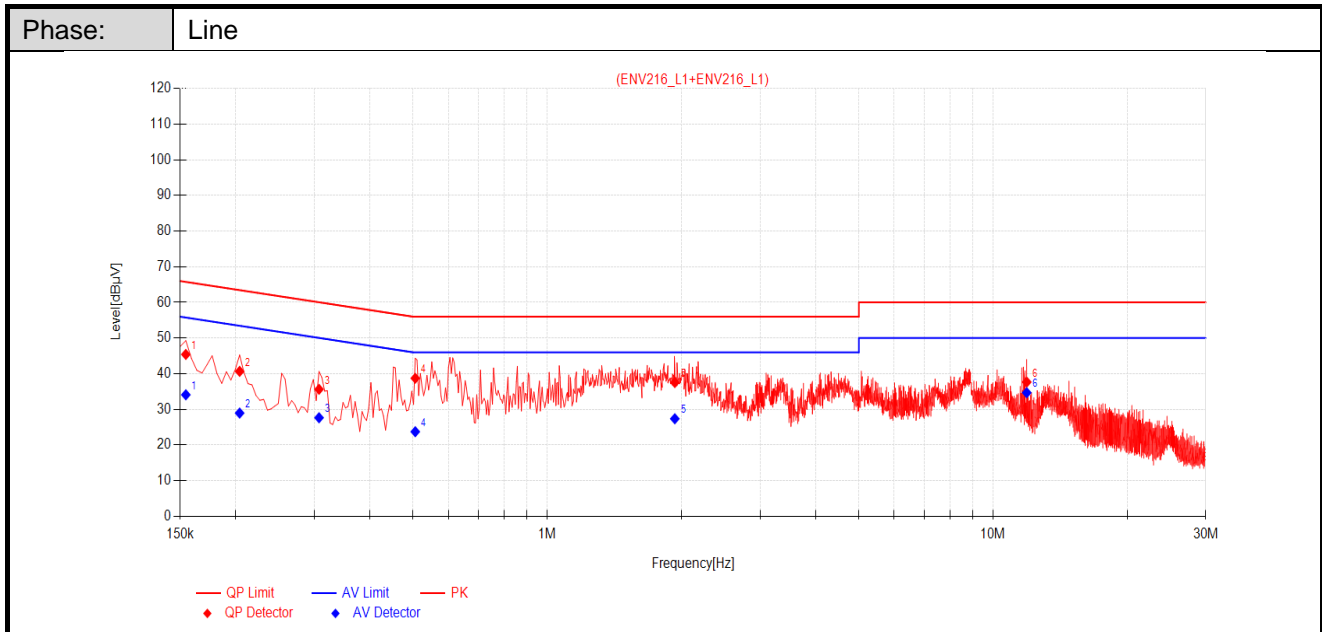
Measurement Data

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.

For Sample #1:

BLE 1M:



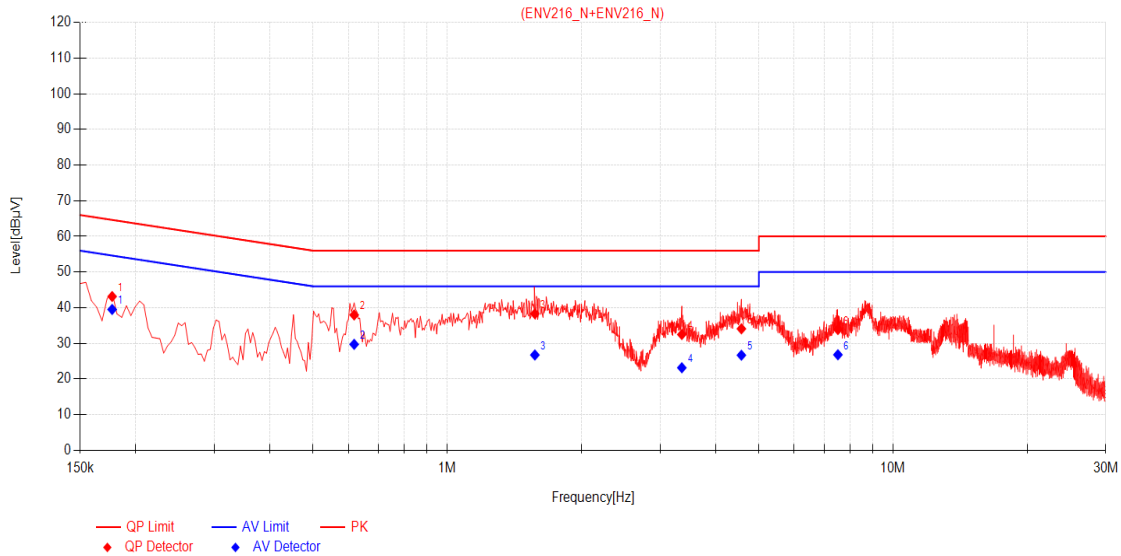
Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.64	34.76	45.40	65.75	20.35	23.45	34.09	55.75	21.66	PASS
2	0.2040	10.82	29.84	40.66	63.45	22.79	18.13	28.95	53.45	24.50	PASS
3	0.3075	10.61	25.01	35.62	60.04	24.42	17.04	27.65	50.04	22.39	PASS
4	0.5055	10.61	28.12	38.73	56.00	17.27	13.12	23.73	46.00	22.27	PASS
5	1.9320	10.70	26.83	37.53	56.00	18.47	16.67	27.37	46.00	18.63	PASS
6	11.9040	10.59	27.06	37.65	60.00	22.35	24.08	34.67	50.00	15.33	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]



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	0.1770	10.71	32.43	43.14	64.63	21.49	28.80	39.51	54.63	15.12	PASS
2	0.6180	10.70	27.27	37.97	56.00	18.03	19.02	29.72	46.00	16.28	PASS
3	1.5720	10.77	27.53	38.30	56.00	17.70	15.97	26.74	46.00	19.26	PASS
4	3.3585	10.64	21.85	32.49	56.00	23.51	12.52	23.16	46.00	22.84	PASS
5	4.5690	10.68	23.41	34.09	56.00	21.91	15.99	26.67	46.00	19.33	PASS
6	7.5210	10.54	23.33	33.87	60.00	26.13	16.26	26.80	50.00	23.20	PASS

Remark:

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



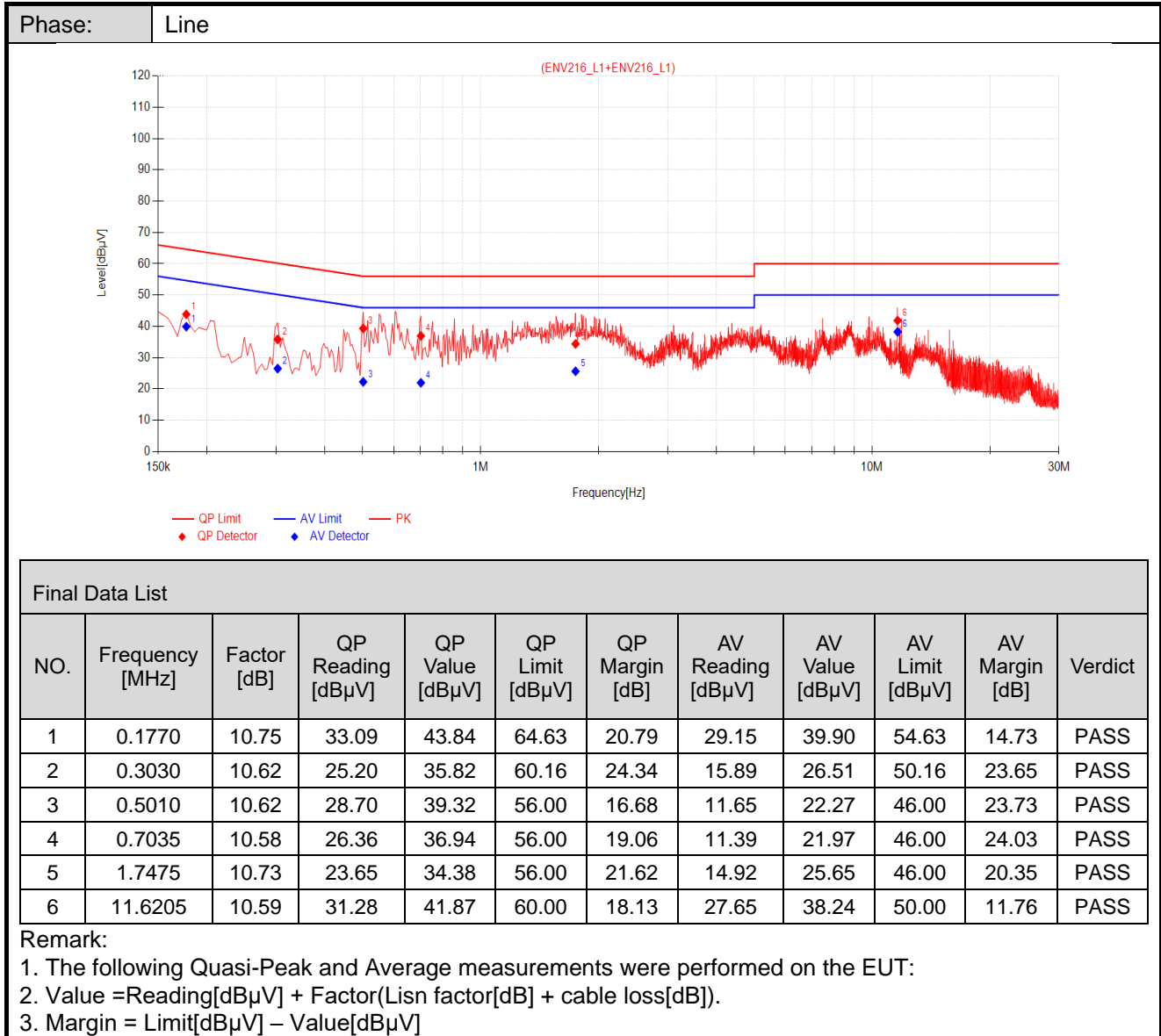
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BLE 2M:



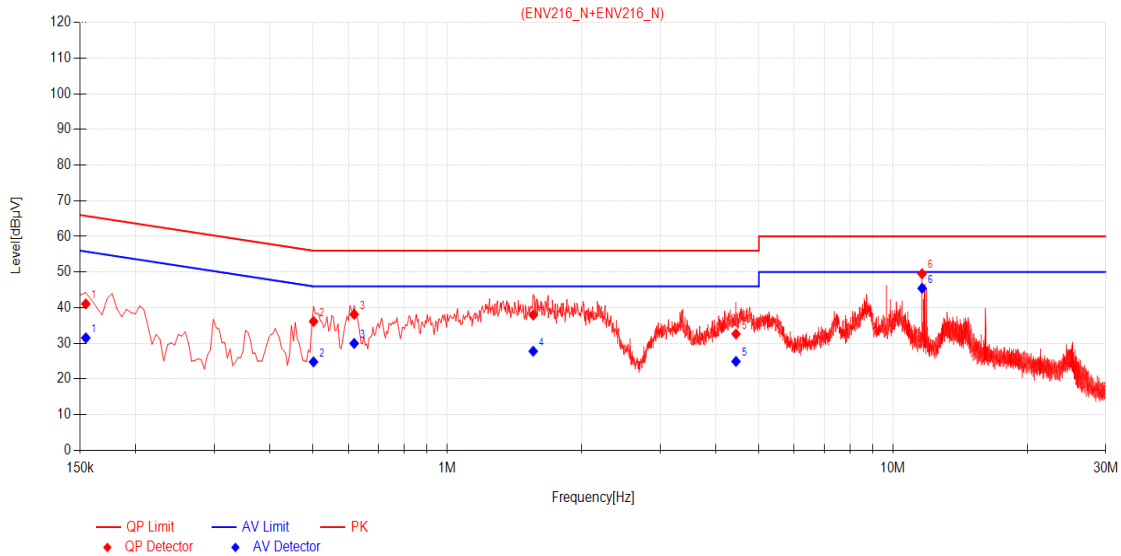
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Phase: Neutral



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	0.1545	10.72	30.36	41.08	65.75	24.67	20.82	31.54	55.75	24.21	PASS
2	0.5010	10.81	25.33	36.14	56.00	19.86	13.99	24.80	46.00	21.20	PASS
3	0.6180	10.70	27.43	38.13	56.00	17.87	19.28	29.98	46.00	16.02	PASS
4	1.5585	10.77	27.15	37.92	56.00	18.08	17.02	27.79	46.00	18.21	PASS
5	4.4430	10.70	21.93	32.63	56.00	23.37	14.22	24.92	46.00	21.08	PASS
6	11.6205	10.65	38.87	49.52	60.00	10.48	34.80	45.45	50.00	4.55	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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4.3 Duty Cycle

The detailed test data see: **Appendix**

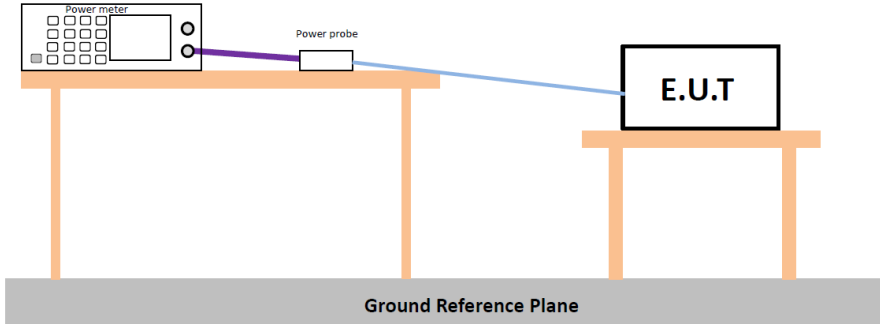


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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.2.3
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	



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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	



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4.7 Band-edge for RF Conducted Emissions

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



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4.8 RF Conducted Spurious Emissions

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

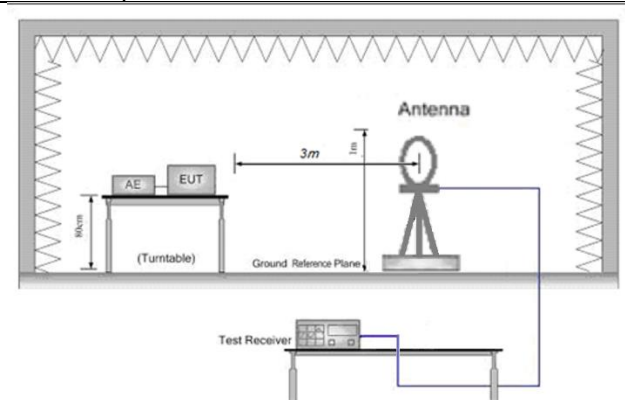


Figure 1. Below 30MHz

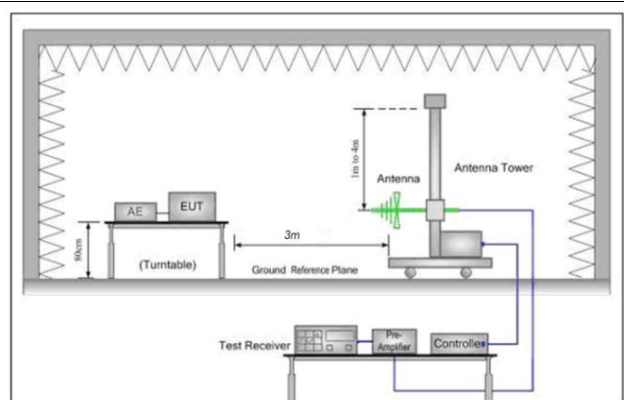


Figure 2. 30MHz to 1GHz



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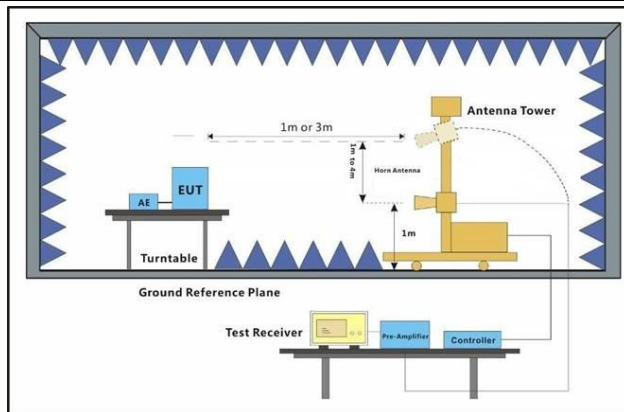


Figure 3. Above 1 GHz

<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



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	<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 = 10Hz, when duty cycle is no less than 98 percent. • 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.
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>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	



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4.10 Restricted bands around fundamental frequency

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

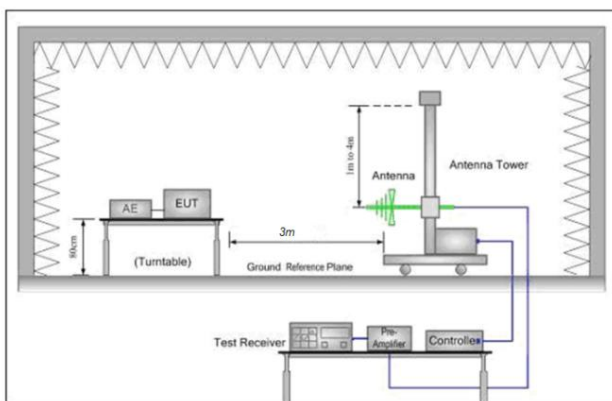


Figure 1. 30MHz to 1GHz

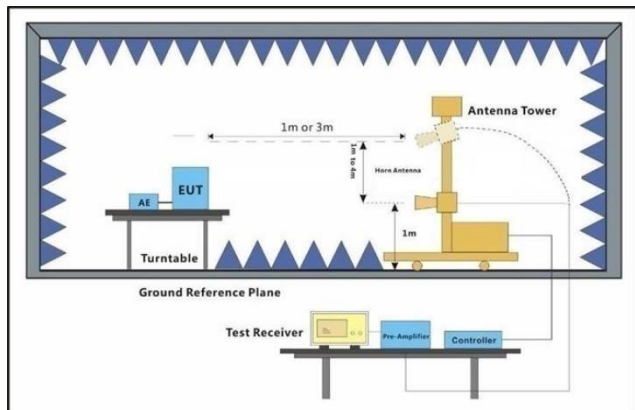


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit
-----------------	---



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	<p>frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the 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 = 10Hz, when duty cycle is no less than 98 percent. • 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.
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					
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	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
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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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-04-02-01	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	2022/11/23	2023/11/22
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-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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**DTS Bandwidth
Test Result**

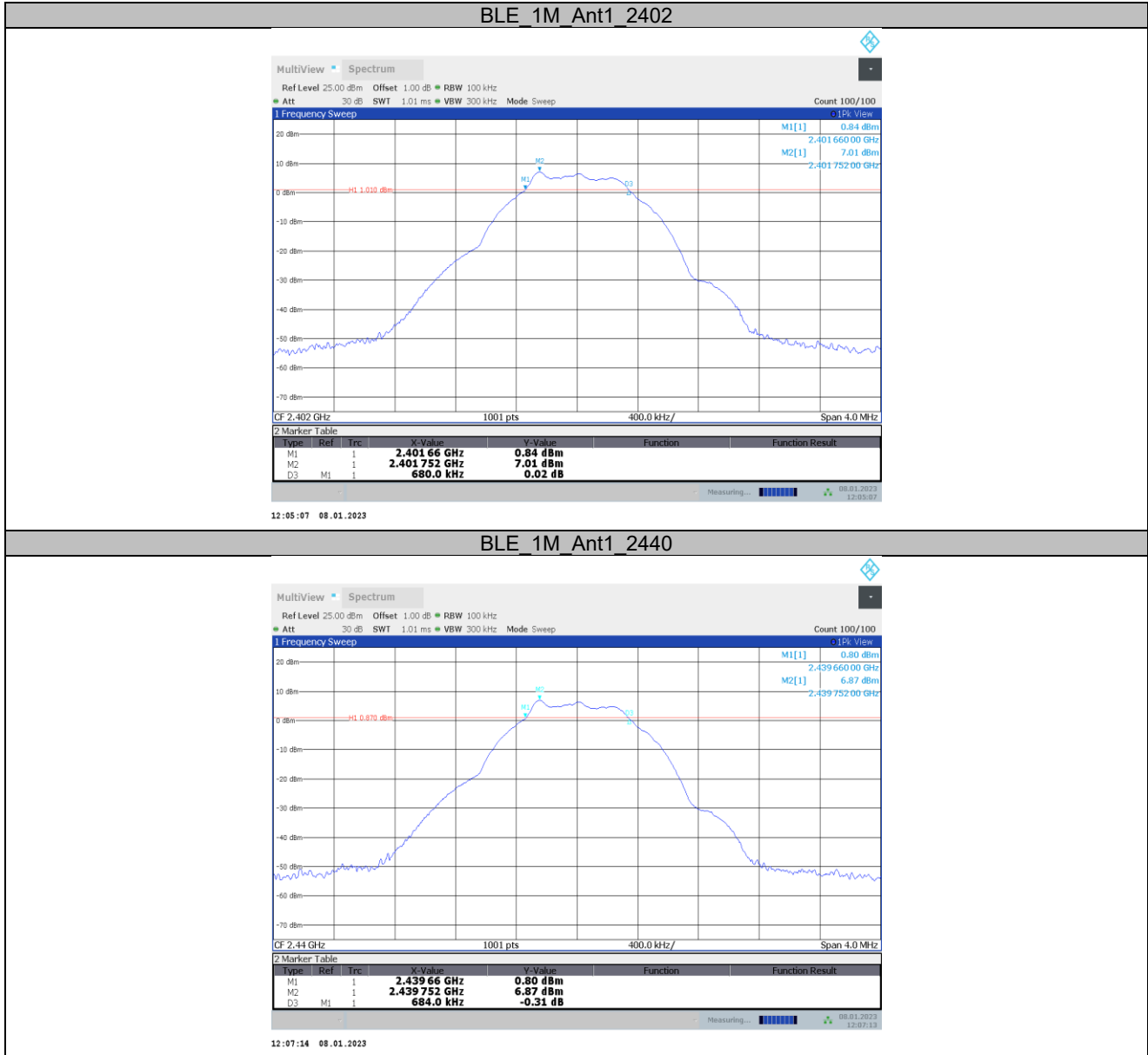
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.66	2402.34	≥0.5	PASS
		2440	0.68	2439.66	2440.34	≥0.5	PASS
		2480	0.68	2479.66	2480.34	≥0.5	PASS
BLE_2M	Ant1	2402	1.18	2401.38	2402.56	≥0.5	PASS
		2440	1.19	2439.38	2440.57	≥0.5	PASS
		2480	1.18	2479.38	2480.57	≥0.5	PASS



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Test Graphs

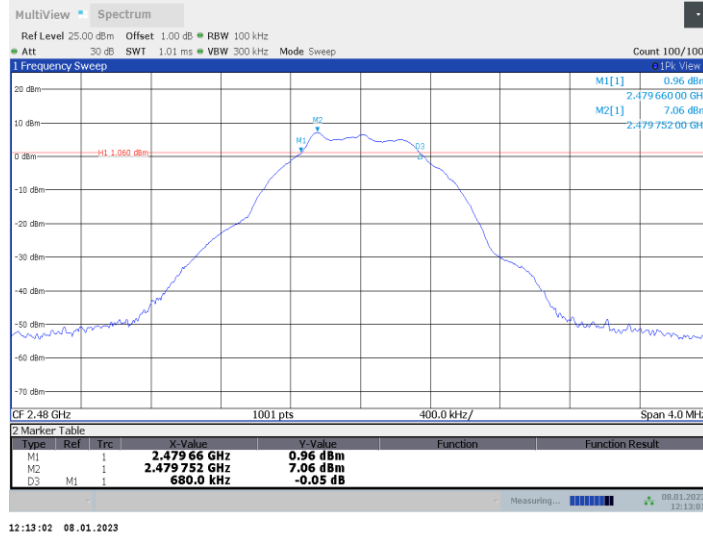


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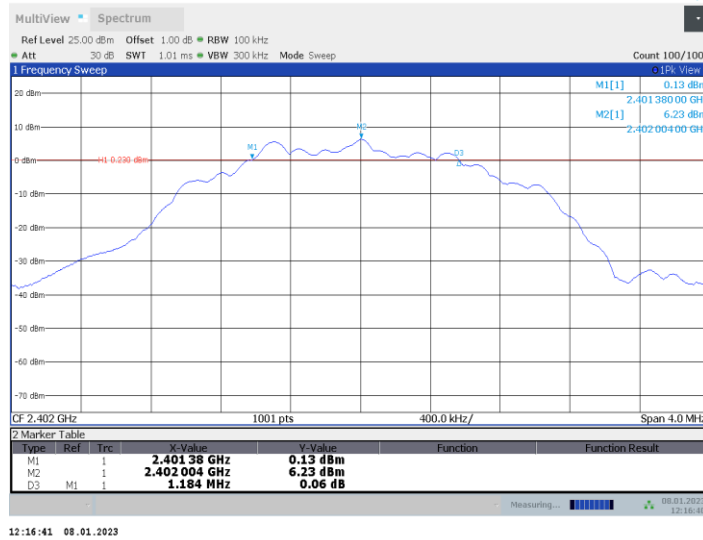
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

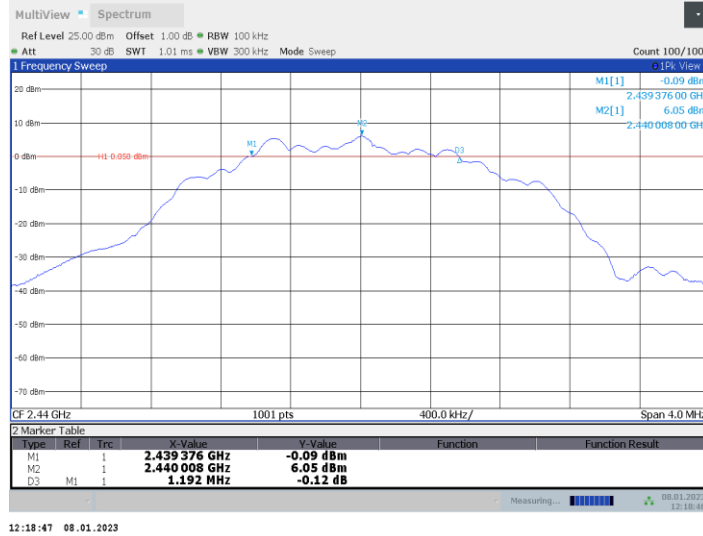


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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant1	2402	1.008	2401.501	2402.509	Reporting only
		2440	1.009	2439.501	2440.510	
		2480	1.011	2479.500	2480.511	
BLE_2M	Ant1	2402	2.030	2401.003	2403.032	
		2440	2.029	2439.003	2441.032	
		2480	2.032	2479.000	2481.032	



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Test Graphs



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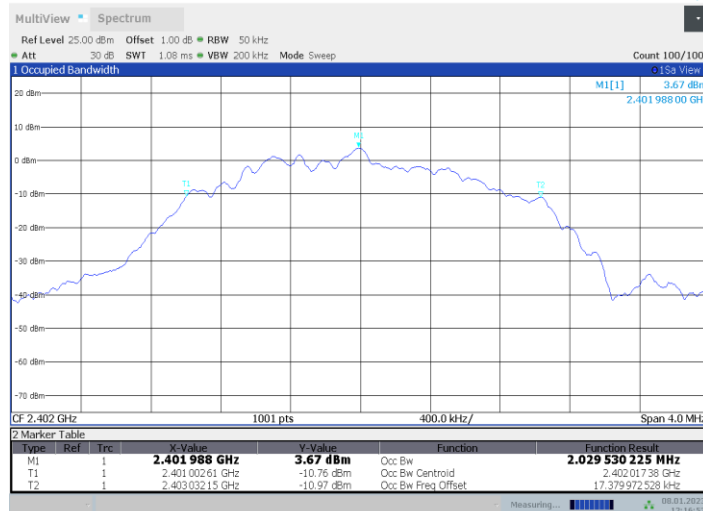
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BLE_1M_Ant1_2480



12:13:14 08.01.2023

BLE_2M_Ant1_2402



12:16:54 08.01.2023

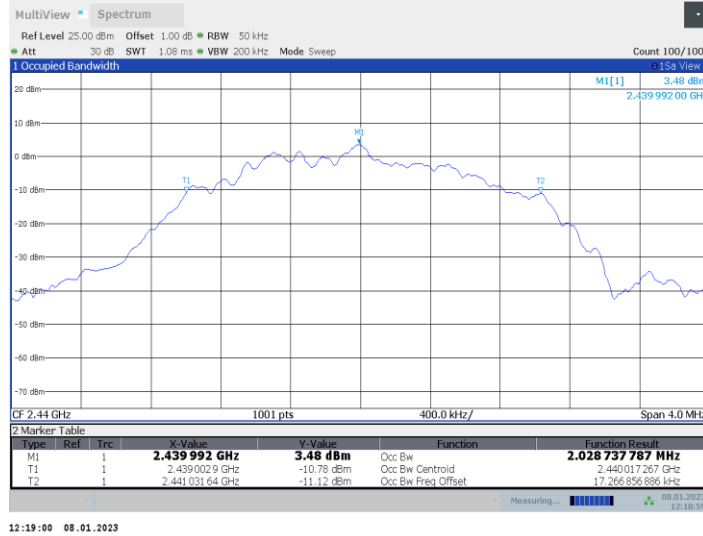


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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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Report No.: SEWM2212000302RG02

Rev.: 01

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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	7.98	≤30	PASS
		2440	7.81	≤30	PASS
		2480	8.18	≤30	PASS
BLE_2M	Ant1	2402	7.86	≤30	PASS
		2440	7.82	≤30	PASS
		2480	8.12	≤30	PASS



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Report No.: SEWM2212000302RG02

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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.19	≤8.00	PASS
		2440	-8.33	≤8.00	PASS
		2480	-8.33	≤8.00	PASS
BLE_2M	Ant1	2402	-10.89	≤8.00	PASS
		2440	-11.04	≤8.00	PASS
		2480	-10.77	≤8.00	PASS

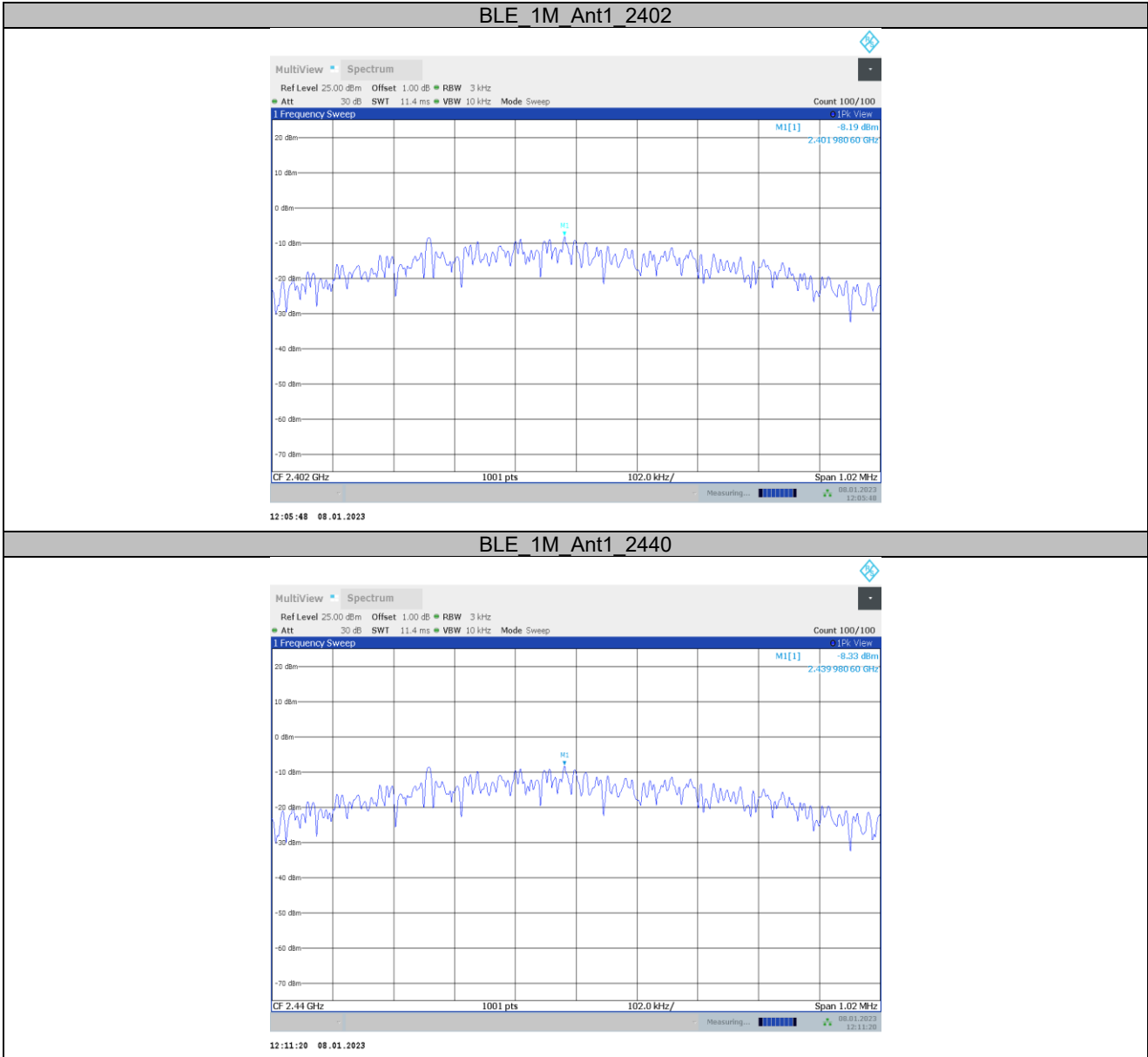


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Test Graphs

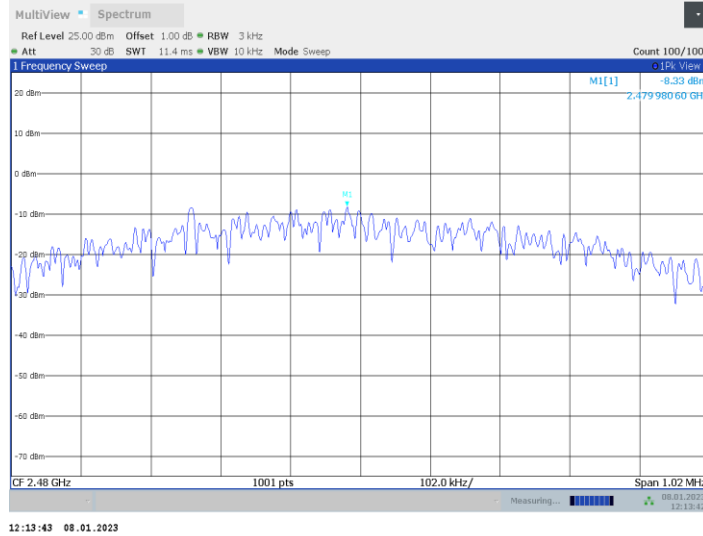


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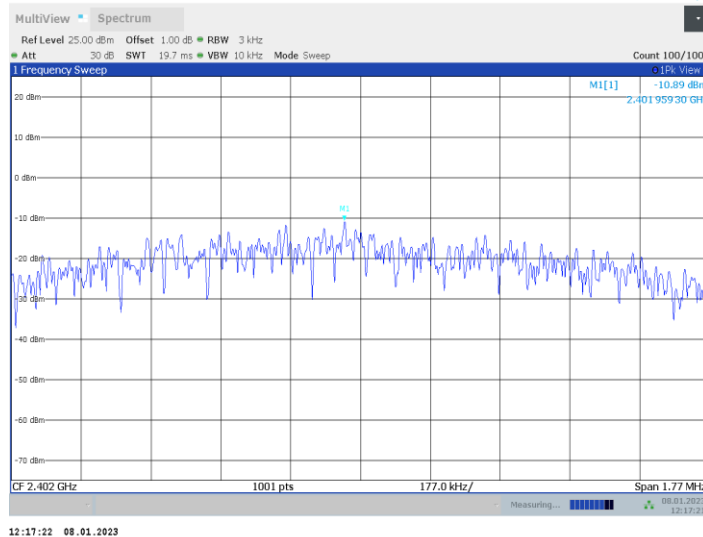
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

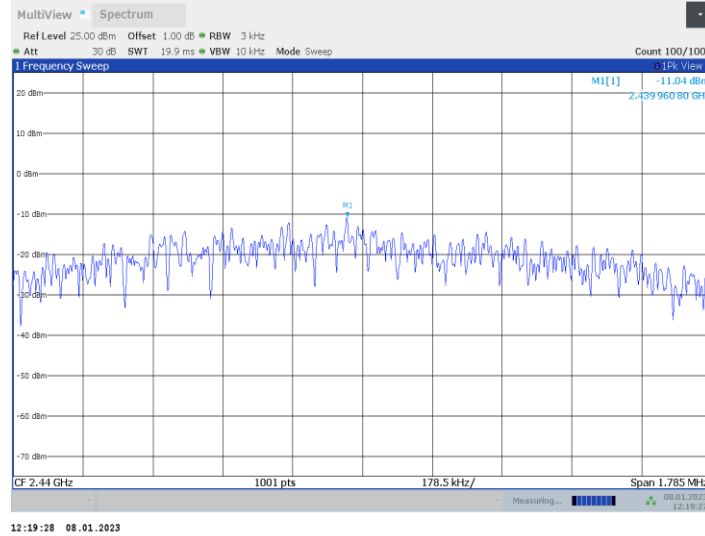


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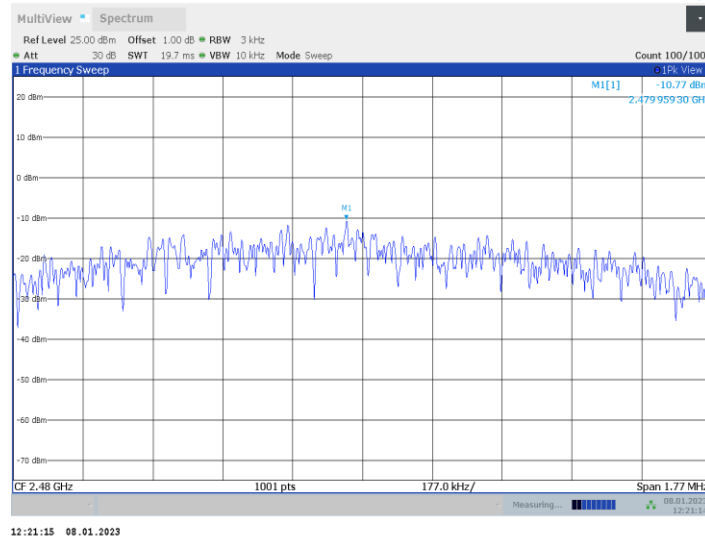
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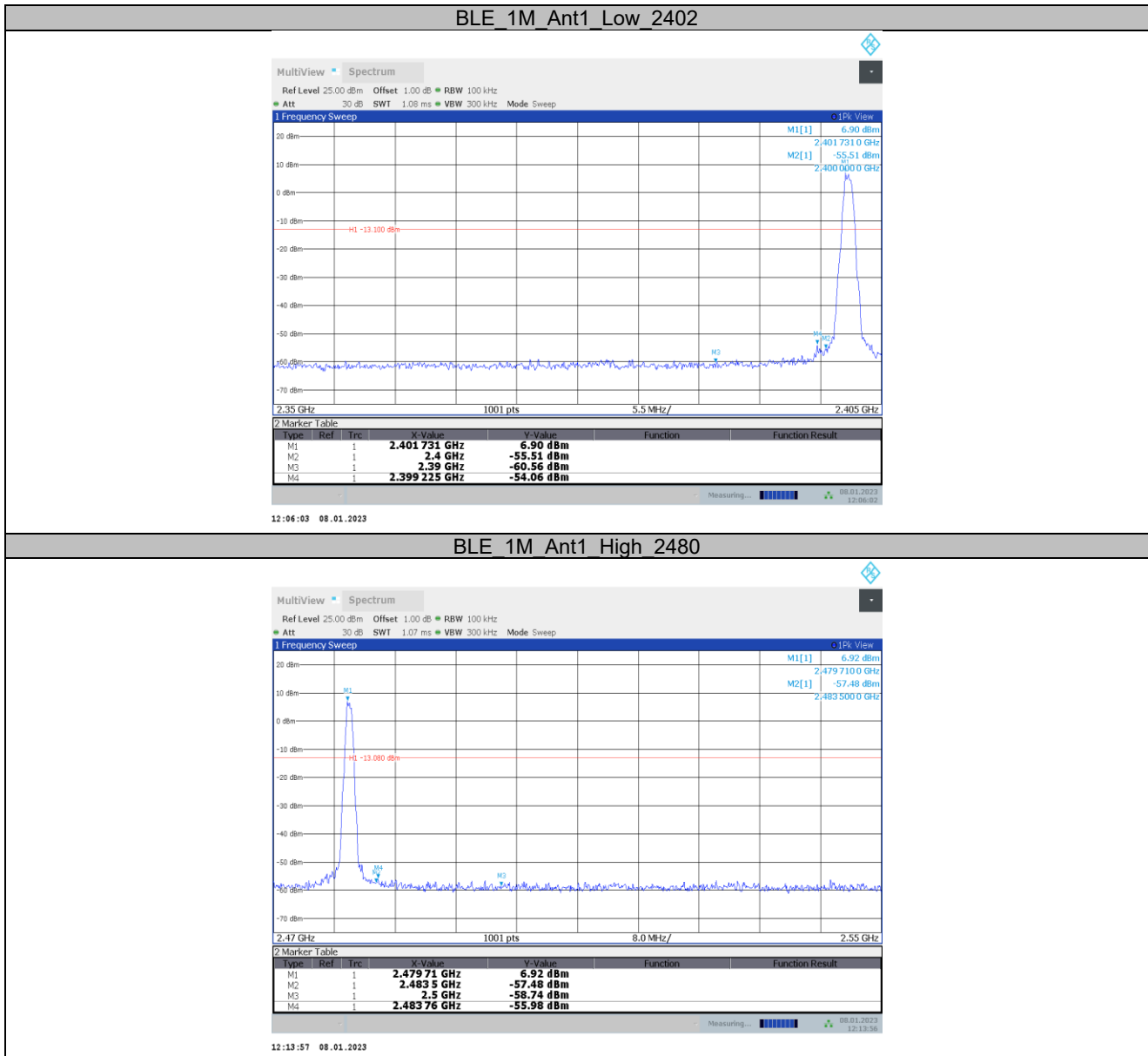
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Band edge measurements Test Graphs

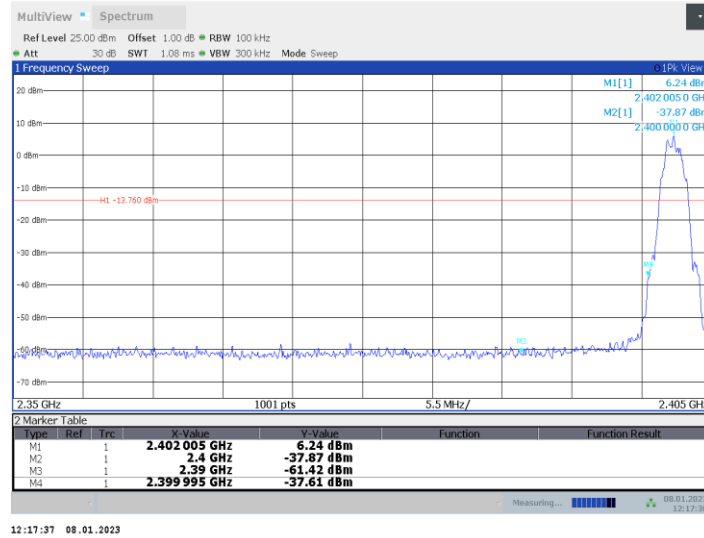


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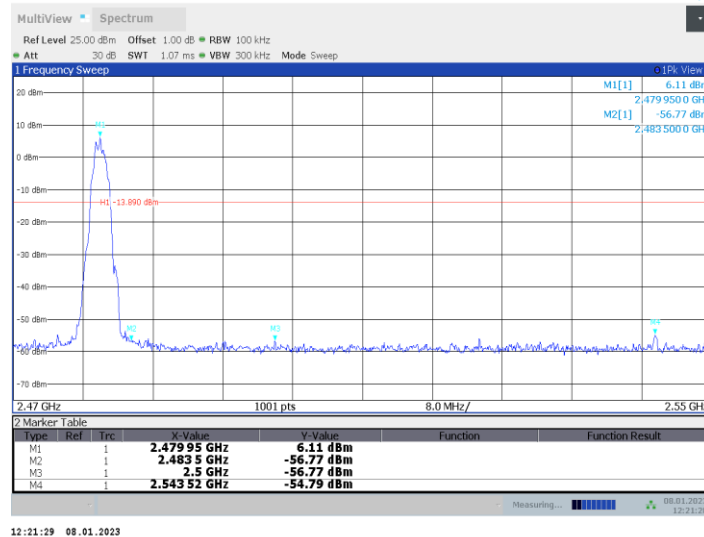
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BLE 2M Ant1 Low 2402



BLE 2M Ant1 High 2480

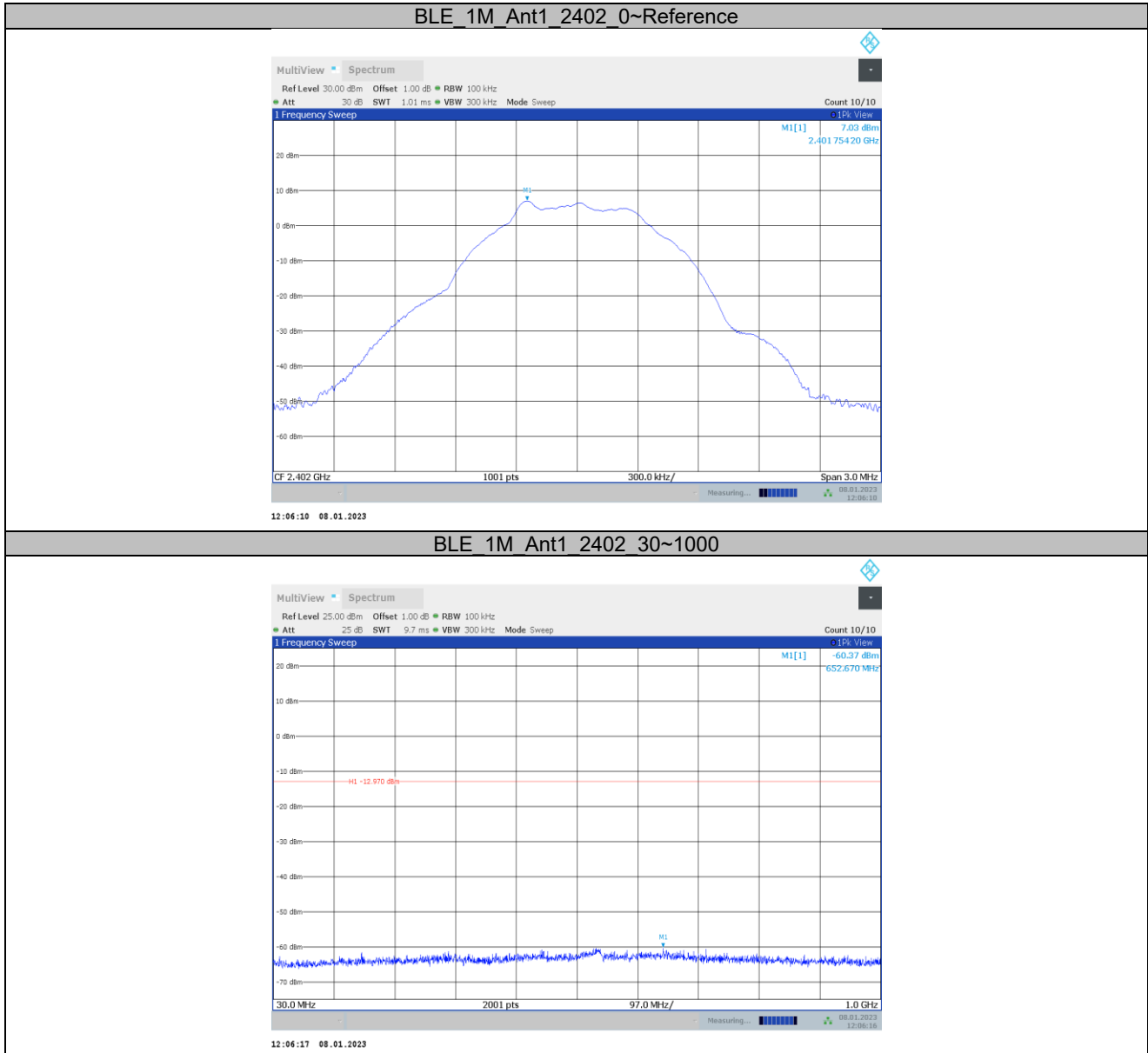


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Conducted Spurious Emission Test Graphs

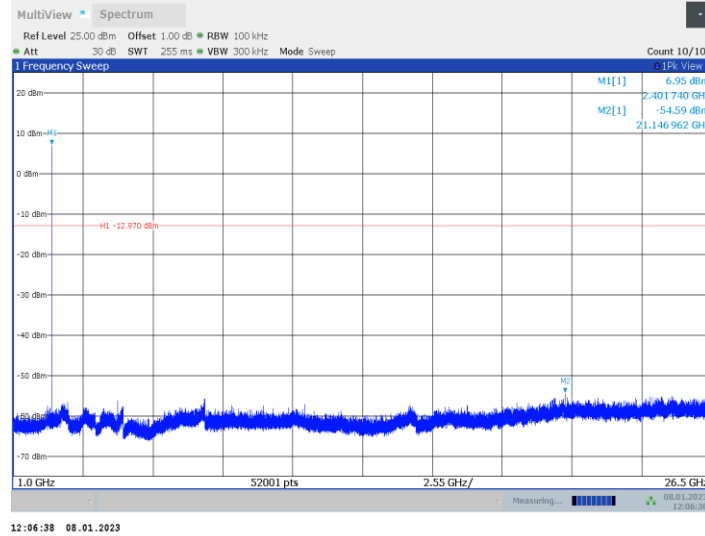


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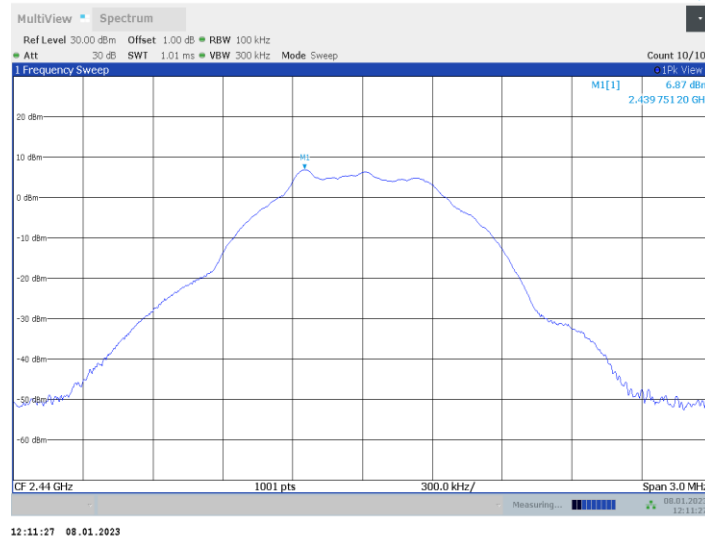
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BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



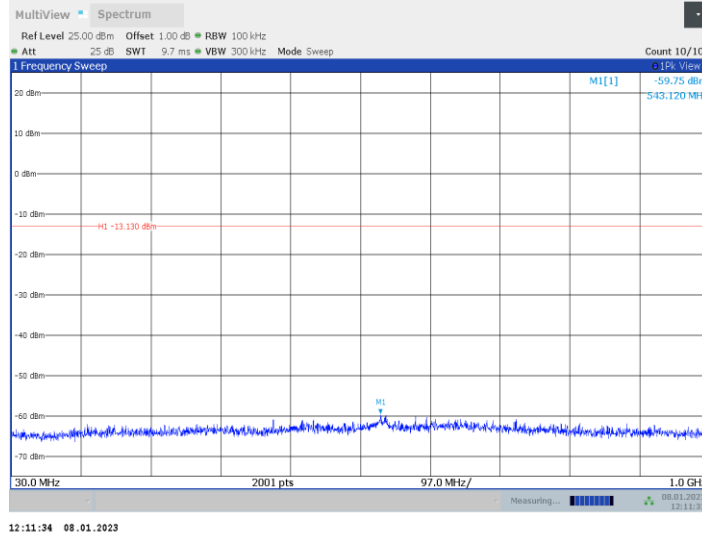
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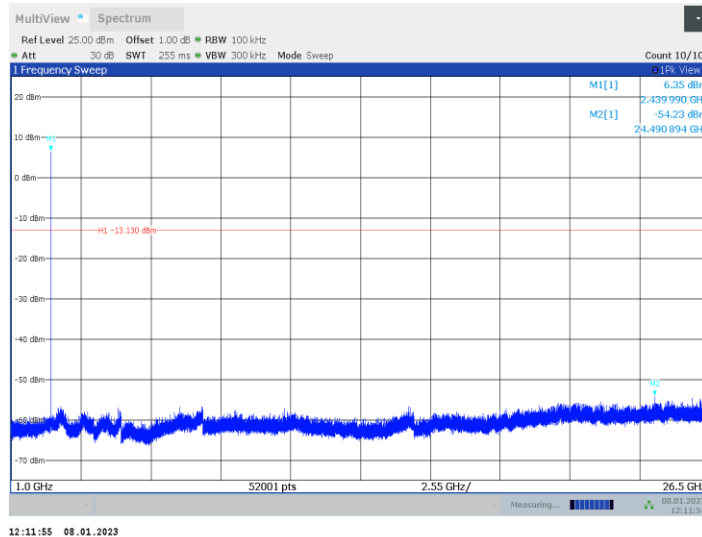
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BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500

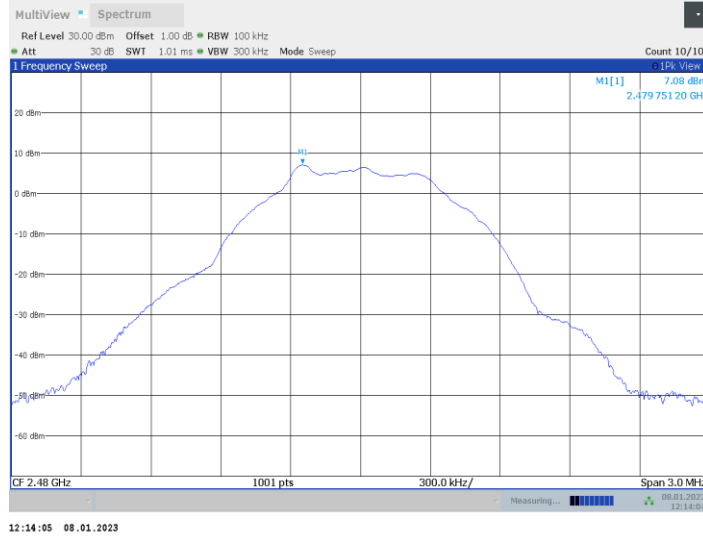


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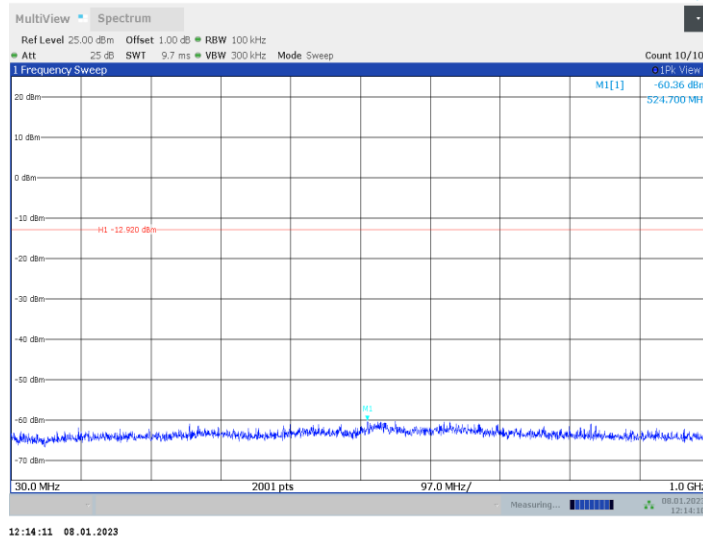
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BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000

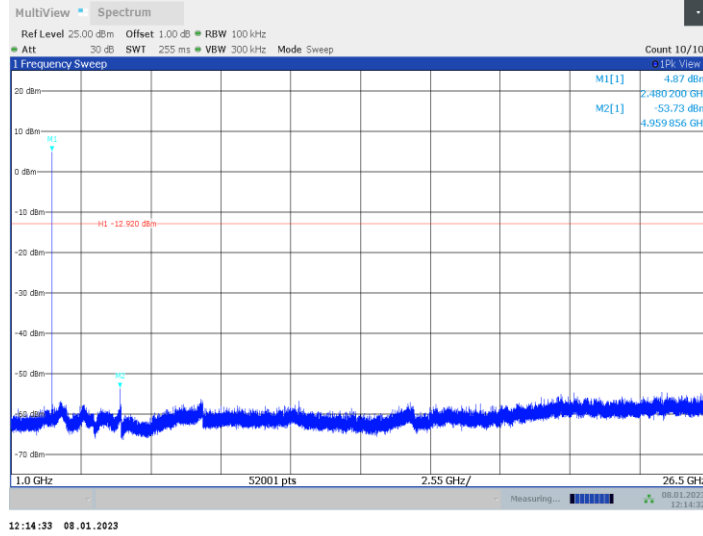


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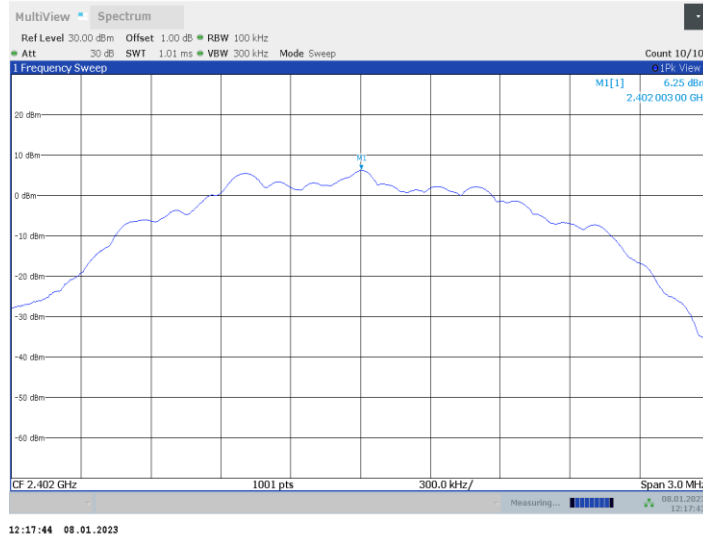
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BLE 1M Ant1 2480 1000-26500

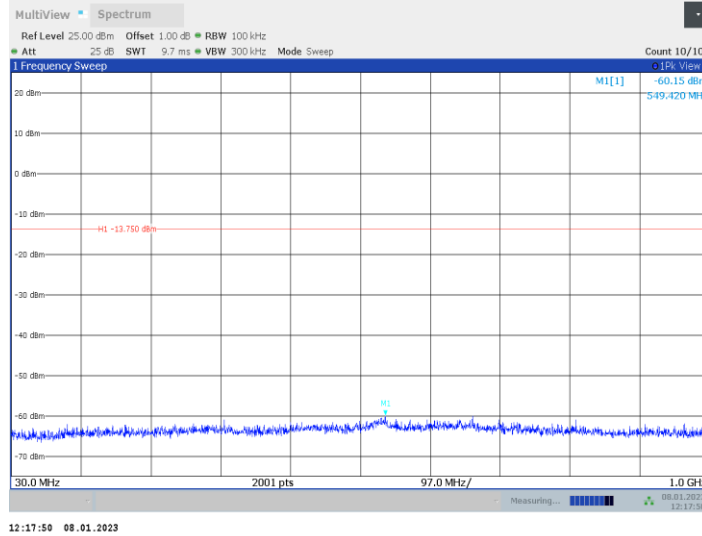


BLE 2M Ant1 2402 0~Reference

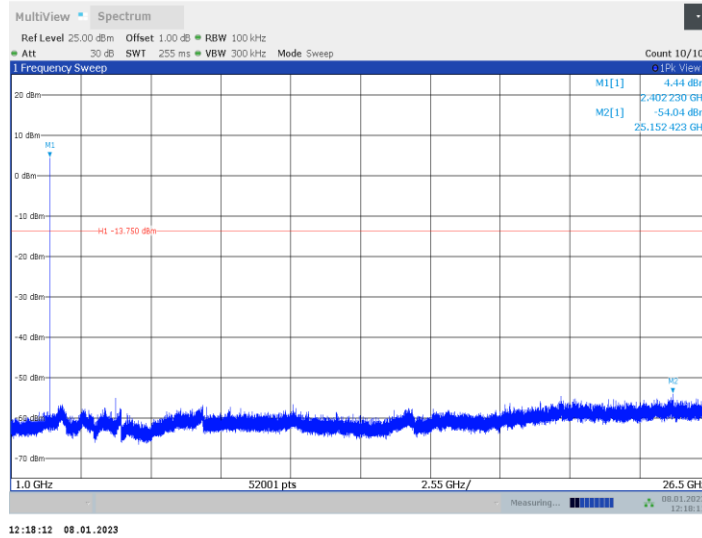


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BLE_2M_Ant1_2402_30~1000



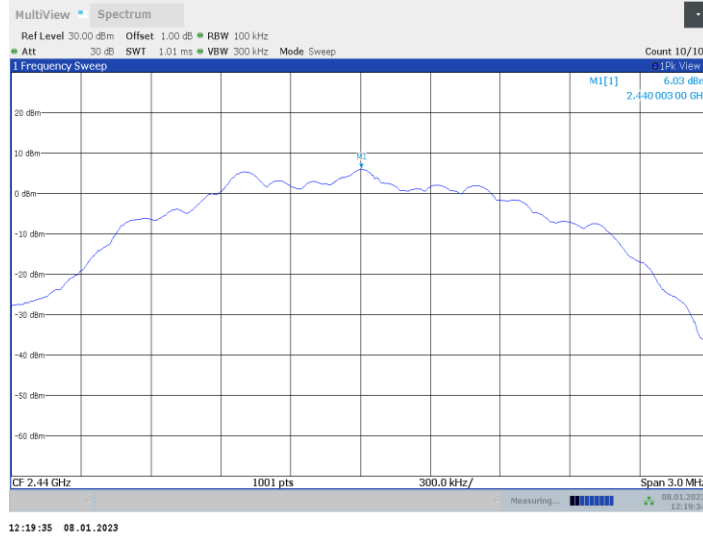
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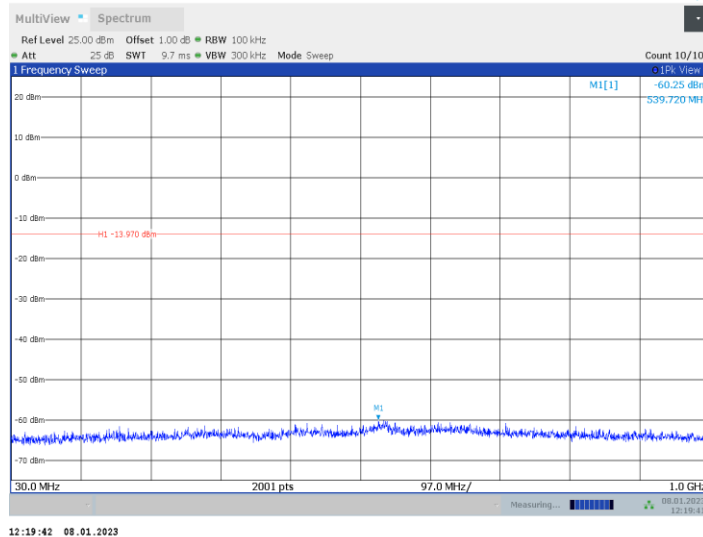
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BLE 2M Ant1 2440 30~1000

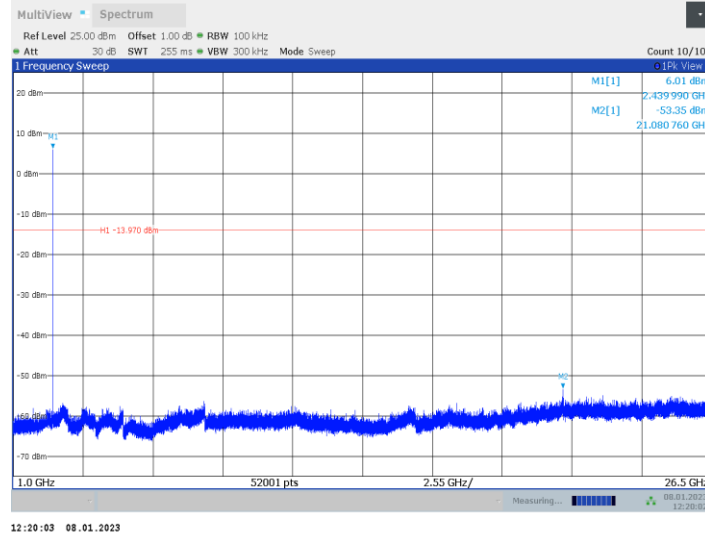


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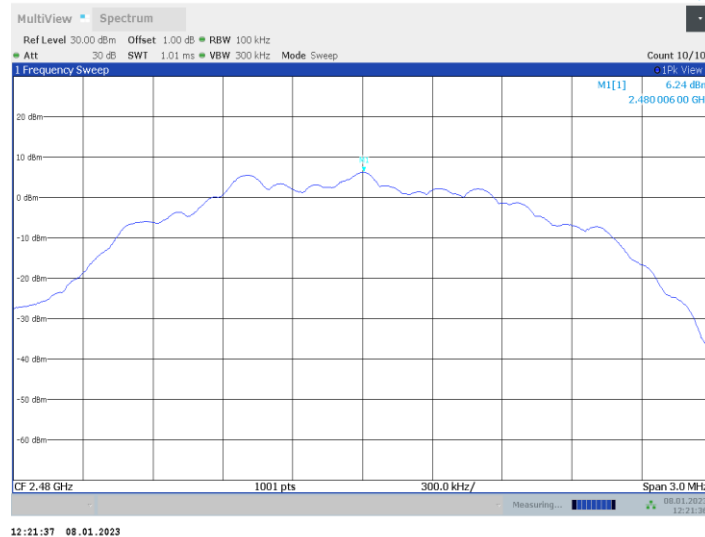
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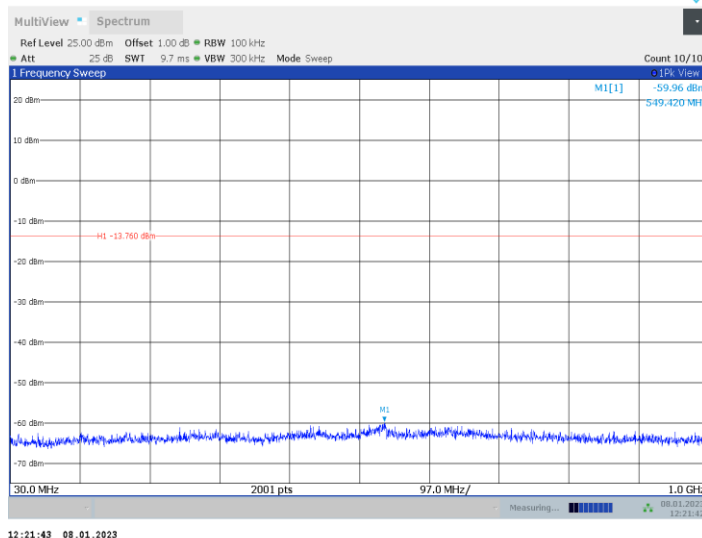
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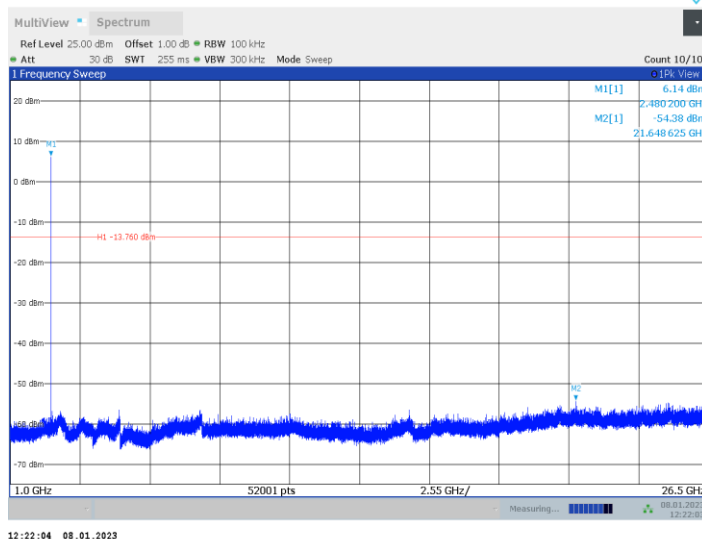
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Report No.: SEWM2212000302RG02

Rev.: 01

Page: 56 of 87

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	1.25	31.20	5.06
BLE_2M	Ant1	2402	0.20	0.63	31.75	4.98

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.39	1.25	31.20	2.56410	3kHz
BLE_2M	0.20	0.63	31.75	5.00000	10kHz



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Test Graphs



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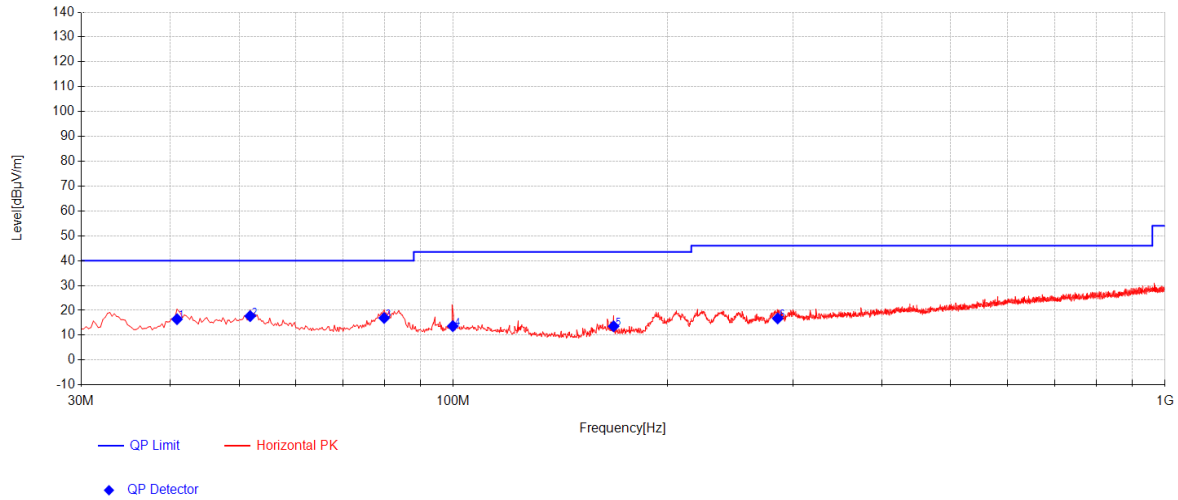
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 39



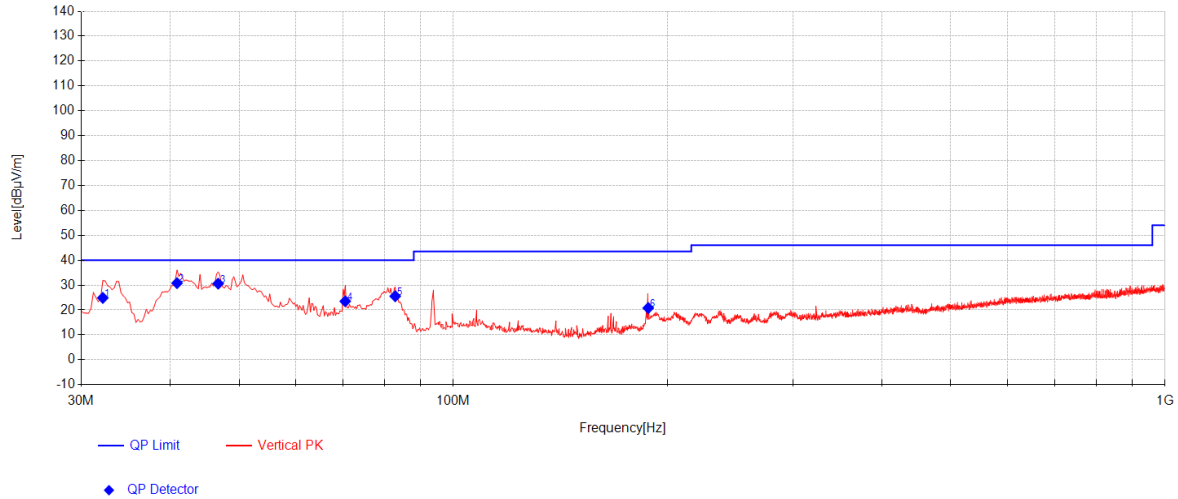
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.9125	32.24	-28.07	12.28	16.45	40.00	23.55	102	310	Horizontal
2	51.825	32.28	-27.94	13.36	17.70	40.00	22.30	285	3	Horizontal
3	79.955	37.86	-27.94	7.01	16.93	40.00	23.07	263	357	Horizontal
4	99.84	30.24	-27.36	10.78	13.65	43.50	29.85	265	160	Horizontal
5	167.9825	32.24	-26.52	7.88	13.60	43.50	29.90	241	99	Horizontal
6	285.595	30.28	-26.36	12.82	16.75	46.00	29.25	142	357	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	32.1825	42.86	-28.47	10.47	24.86	40.00	15.14	102	96	Vertical
2	40.9125	46.58	-28.07	12.28	30.79	40.00	9.21	285	349	Vertical
3	46.7325	45.26	-28.03	13.34	30.57	40.00	9.43	263	25	Vertical
4	70.4975	42.62	-27.75	8.62	23.49	40.00	16.51	265	241	Vertical
5	82.865	45.68	-27.86	7.72	25.53	40.00	14.47	241	89	Vertical
6	187.8675	38.68	-27.17	9.29	20.79	43.50	22.71	142	0	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:
 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)
- All channels have been tested, but only the worst case data displayed in this report.

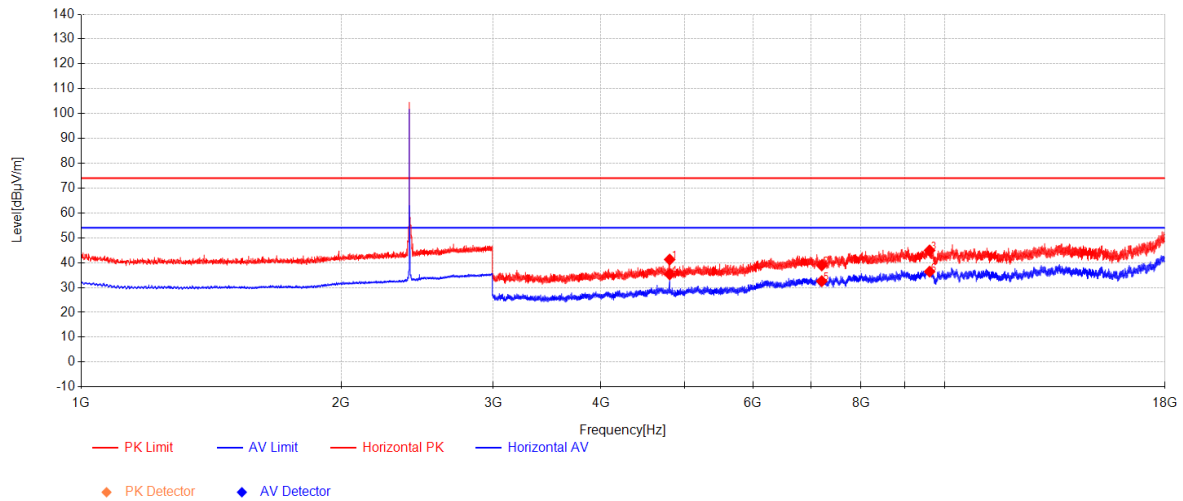


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Transmitter emission Above 1GHz

For Sample #1:

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	53.60	32.13	-44.46	41.27	74.00	32.73	296	0	Horizontal
2	7206	44.82	36.32	-42.23	38.91	74.00	35.09	265	250	Horizontal
3	9608	44.46	38.54	-38.05	44.95	74.00	29.05	241	32	Horizontal
4	4804	47.61	32.13	-44.46	35.28	54.00	18.72	142	0	Horizontal
5	7206	38.46	36.32	-42.23	32.55	54.00	21.45	263	32	Horizontal
6	9608	35.91	38.54	-38.05	36.40	54.00	17.60	228	213	Horizontal



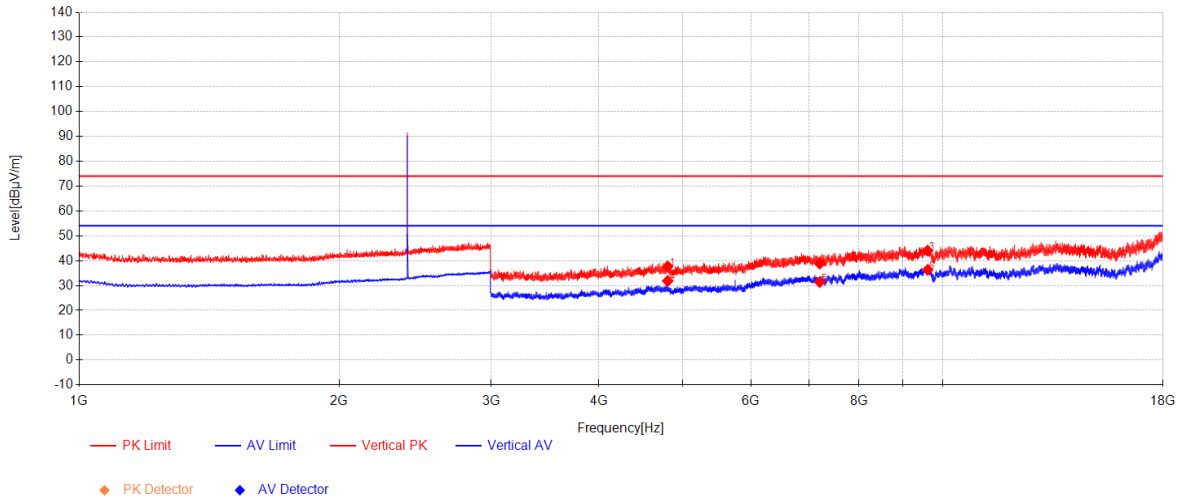
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory

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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	4804	50.03	32.13	-44.46	37.70	74.00	36.30	142	111	Vertical
2	7206	44.70	36.32	-42.23	38.79	74.00	35.21	285	0	Vertical
3	9608	43.52	38.54	-38.05	44.01	74.00	29.99	263	8	Vertical
4	4804	44.17	32.13	-44.46	31.84	54.00	22.16	235	111	Vertical
5	7206	37.31	36.32	-42.23	31.40	54.00	22.60	242	150	Vertical
6	9608	35.83	38.54	-38.05	36.32	54.00	17.68	286	219	Vertical



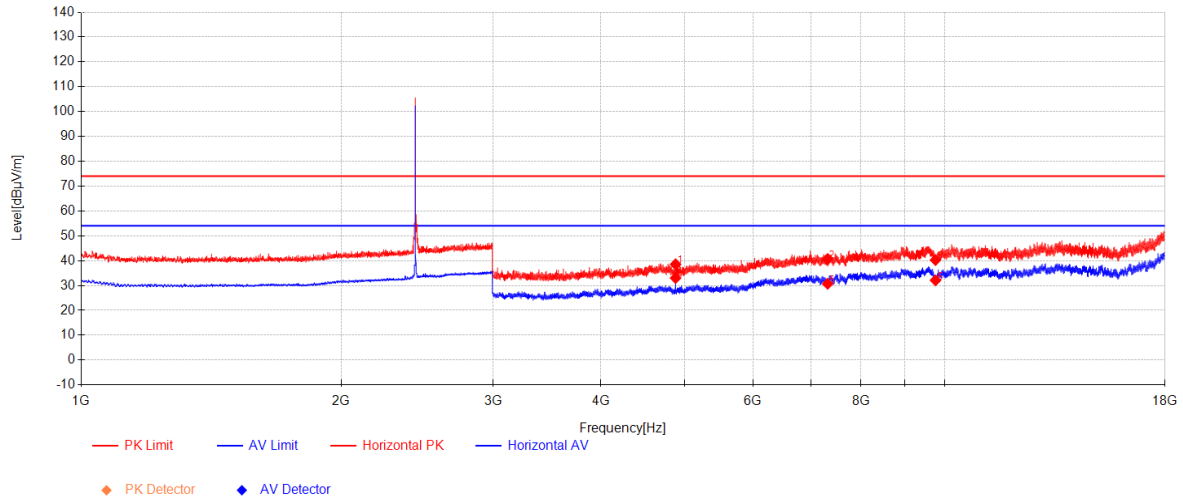
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BLE 1M_Channel 19



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	51.00	32.31	-44.79	38.52	74.00	35.48	296	302	Horizontal
2	7320	46.07	36.39	-41.80	40.66	74.00	33.34	265	325	Horizontal
3	9760	39.25	38.52	-37.51	40.27	74.00	33.73	284	75	Horizontal
4	4880	45.51	32.31	-44.79	33.03	54.00	20.97	254	35	Horizontal
5	7320	36.11	36.39	-41.80	30.70	54.00	23.30	142	57	Horizontal
6	9760	31.08	38.52	-37.51	32.10	54.00	21.90	201	327	Horizontal



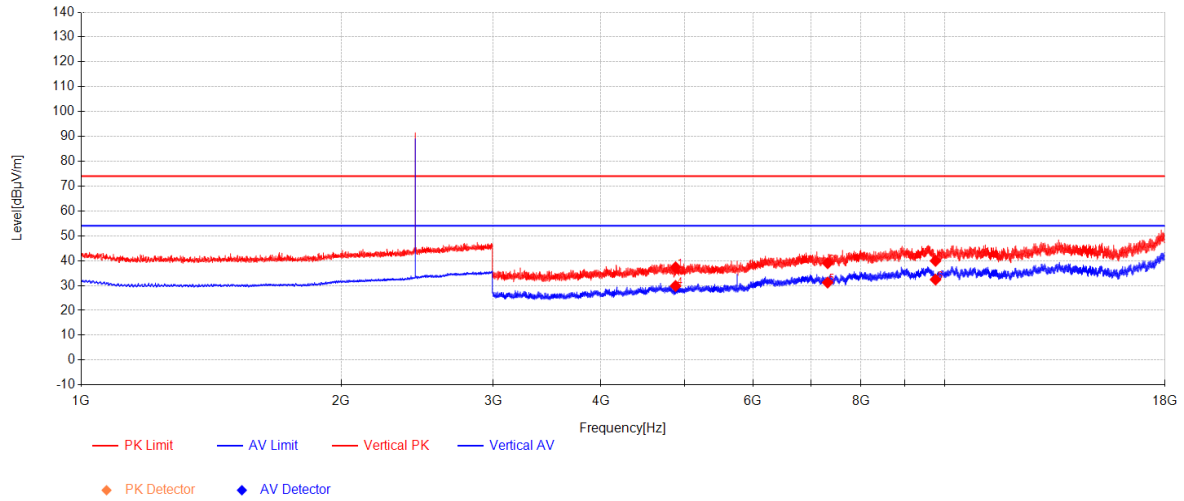
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BLE 1M_Channel 19



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	49.80	32.31	-44.79	37.32	74.00	36.68	296	107	Vertical
2	7320	44.38	36.39	-41.80	38.97	74.00	35.03	265	37	Vertical
3	9760	38.89	38.52	-37.51	39.91	74.00	34.09	284	140	Vertical
4	4880	42.30	32.31	-44.79	29.82	54.00	24.18	142	291	Vertical
5	7320	36.60	36.39	-41.80	31.19	54.00	22.81	255	0	Vertical
6	9760	31.37	38.52	-37.51	32.39	54.00	21.61	253	328	Vertical



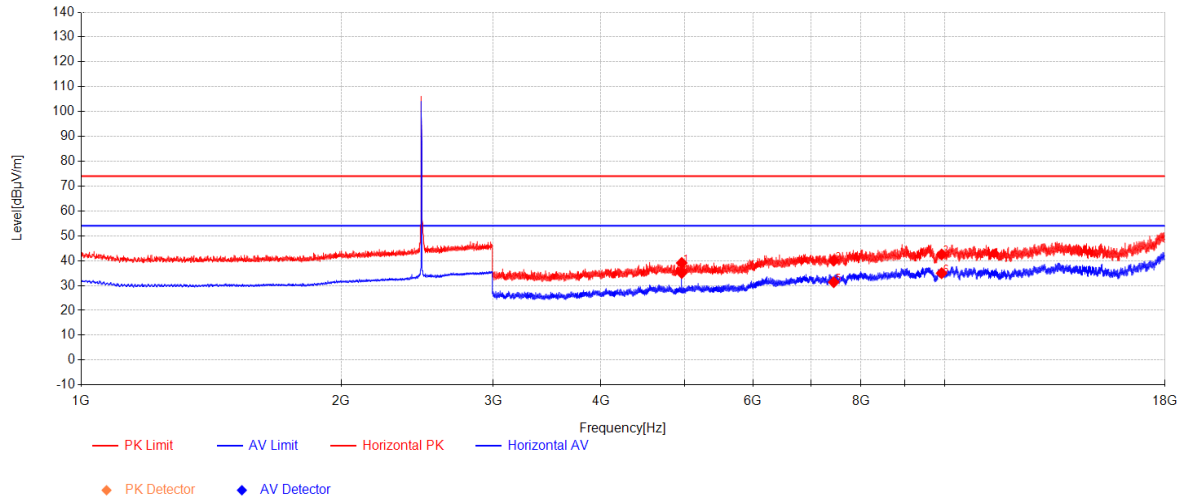
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BLE 1M_Channel 39



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	51.48	32.50	-44.92	39.07	74.00	34.93	296	288	Horizontal
2	7440	45.42	36.46	-41.83	40.06	74.00	33.94	265	217	Horizontal
3	9920	41.19	38.51	-37.22	42.48	74.00	31.52	284	109	Horizontal
4	4960	47.46	32.50	-44.92	35.05	54.00	18.95	142	357	Horizontal
5	7440	36.69	36.46	-41.83	31.33	54.00	22.67	263	181	Horizontal
6	9920	33.66	38.51	-37.22	34.95	54.00	19.05	224	323	Horizontal



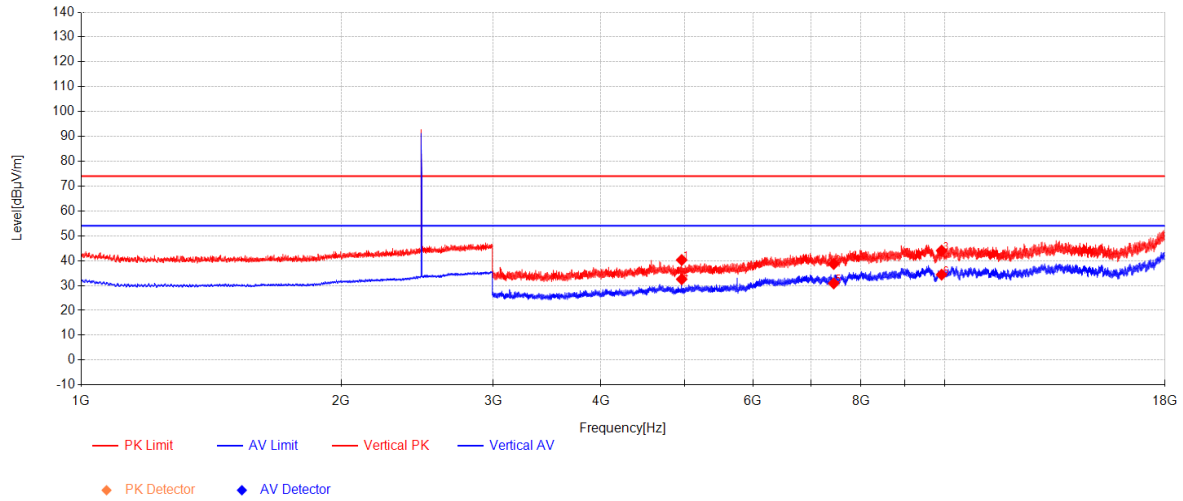
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BLE 1M_Channel 39



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	52.68	32.50	-44.92	40.27	74.00	33.73	296	215	Vertical
2	7440	44.04	36.46	-41.83	38.68	74.00	35.32	265	252	Vertical
3	9920	42.75	38.51	-37.22	44.04	74.00	29.96	284	102	Vertical
4	4960.5	44.93	32.51	-44.92	32.52	54.00	21.48	142	215	Vertical
5	7440	36.22	36.46	-41.83	30.86	54.00	23.14	263	0	Vertical
6	9920	33.08	38.51	-37.22	34.37	54.00	19.63	225	290	Vertical



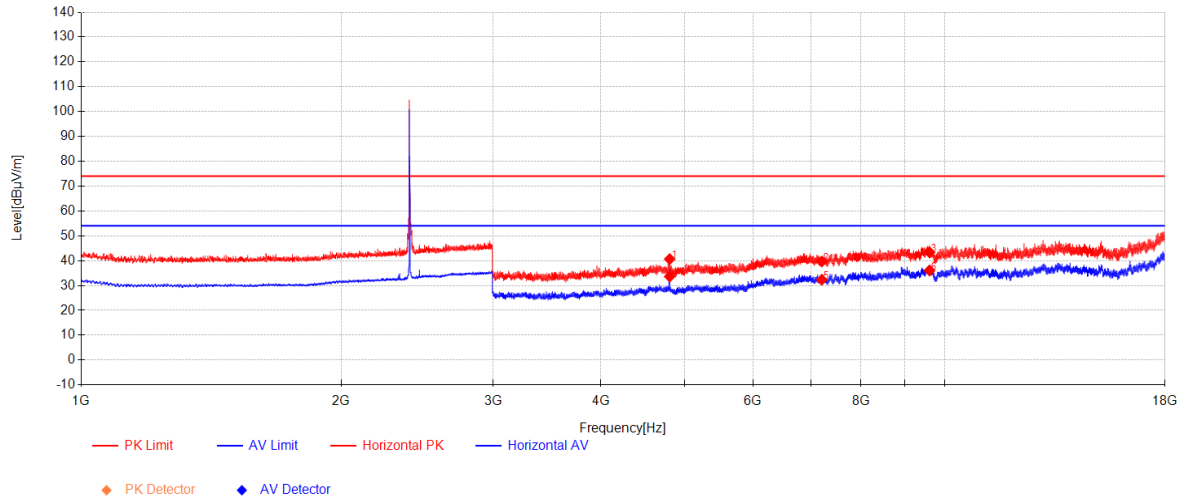
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BLE 2M_Channel 00



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	52.96	32.13	-44.46	40.63	74.00	33.37	296	0	Horizontal
2	7206	45.58	36.32	-42.23	39.67	74.00	34.33	265	0	Horizontal
3	9608	42.81	38.54	-38.05	43.30	74.00	30.70	284	357	Horizontal
4	4804	45.94	32.13	-44.46	33.61	54.00	20.39	142	0	Horizontal
5	7206	38.23	36.32	-42.23	32.32	54.00	21.68	255	0	Horizontal
6	9608	35.54	38.54	-38.05	36.03	54.00	17.97	263	6	Horizontal



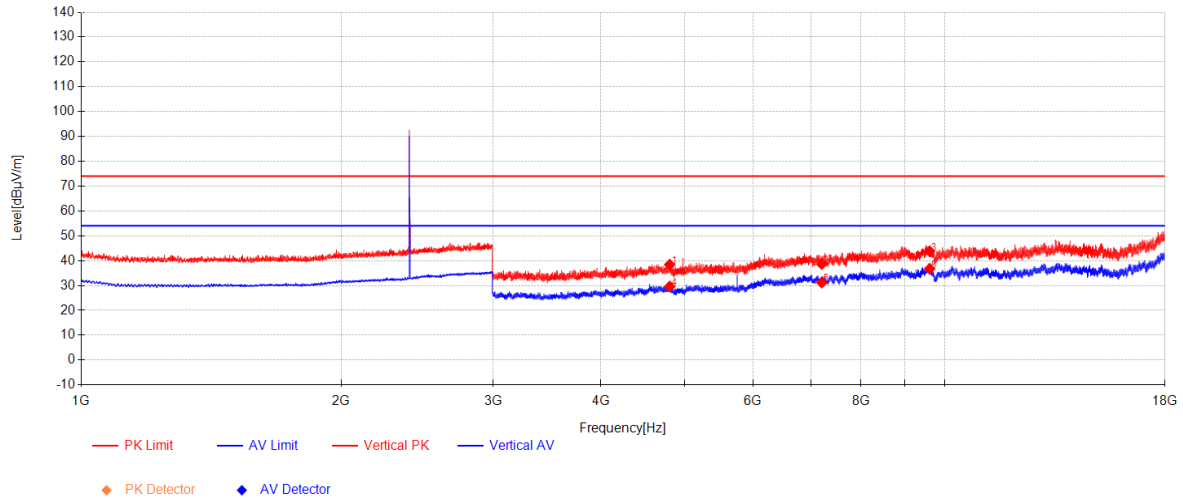
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BLE 2M_Channel 00



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	50.71	32.13	-44.46	38.38	74.00	35.62	296	140	Vertical
2	7206	44.54	36.32	-42.23	38.63	74.00	35.37	265	253	Vertical
3	9608	43.30	38.54	-38.05	43.79	74.00	30.21	284	288	Vertical
4	4804	41.91	32.13	-44.46	29.58	54.00	24.42	142	107	Vertical
5	7206	37.12	36.32	-42.23	31.21	54.00	22.79	255	25	Vertical
6	9608	36.24	38.54	-38.05	36.73	54.00	17.27	263	107	Vertical



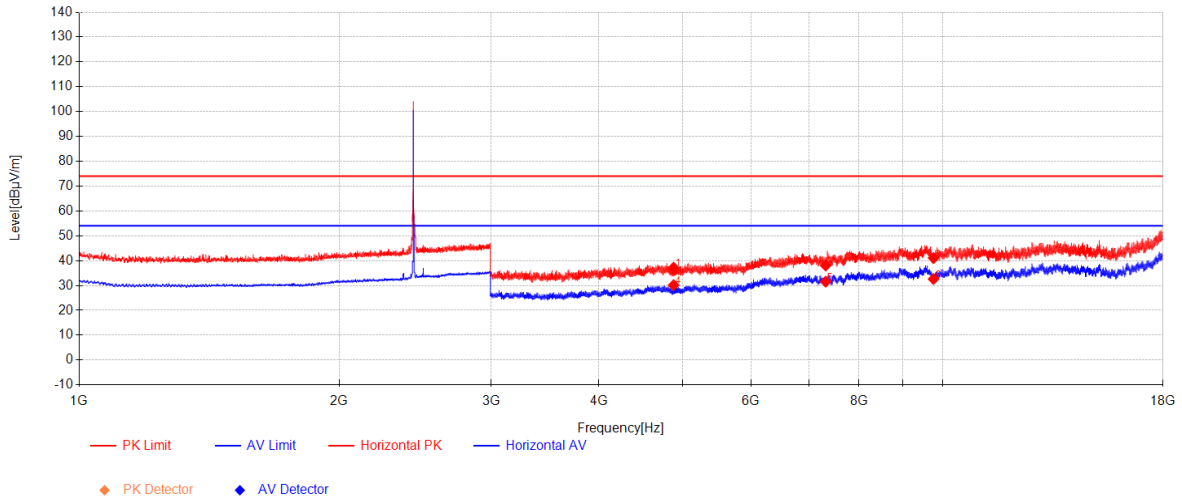
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.63	32.31	-44.79	37.15	74.00	36.85	165	0	Horizontal
2	7320	43.46	36.39	-41.80	38.05	74.00	35.95	295	117	Horizontal
3	9760	40.04	38.52	-37.51	41.06	74.00	32.94	284	151	Horizontal
4	4880	42.61	32.31	-44.79	30.13	54.00	23.87	142	0	Horizontal
5	7320	36.95	36.39	-41.80	31.54	54.00	22.46	263	117	Horizontal
6	9760	31.61	38.52	-37.51	32.63	54.00	21.37	224	0	Horizontal



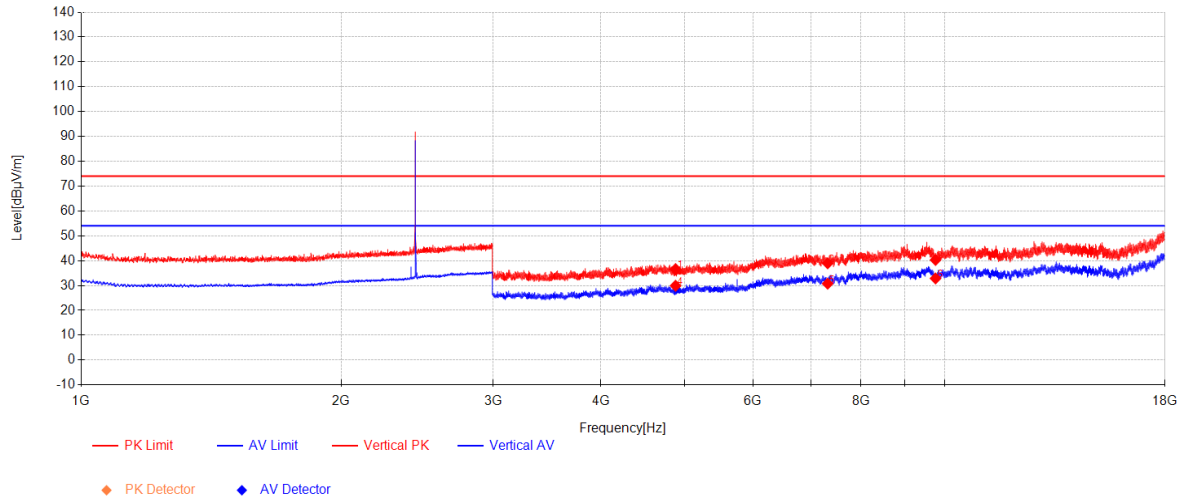
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BLE 2M_Channel 19



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	49.09	32.31	-44.79	36.61	74.00	37.39	296	357	Vertical
2	7320	44.35	36.39	-41.80	38.94	74.00	35.06	265	291	Vertical
3	9760	39.28	38.52	-37.51	40.30	74.00	33.70	284	0	Vertical
4	4880	42.38	32.31	-44.79	29.90	54.00	24.10	142	186	Vertical
5	7320	36.15	36.39	-41.80	30.74	54.00	23.26	263	0	Vertical
6	9760	31.83	38.52	-37.51	32.85	54.00	21.15	224	357	Vertical



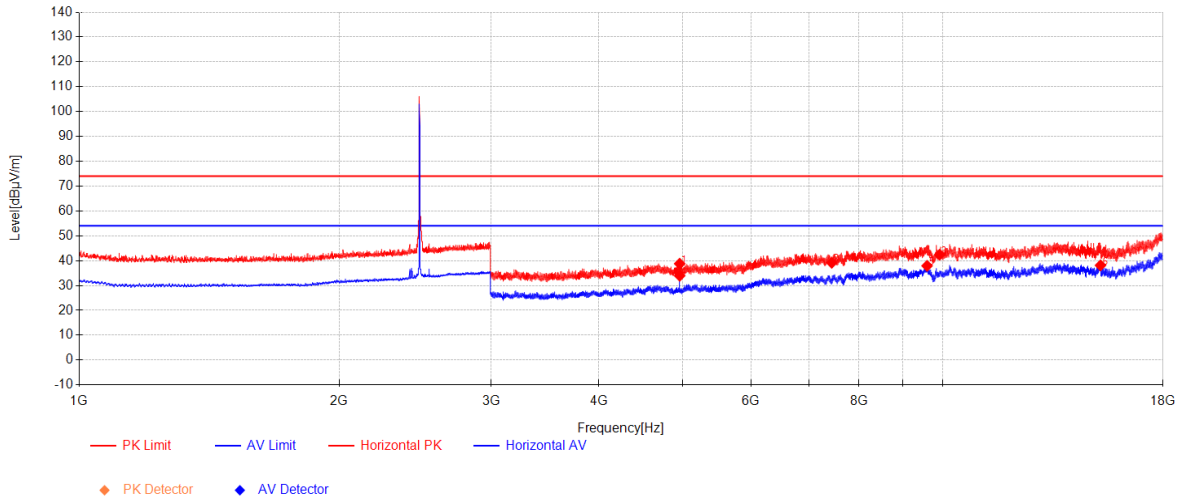
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BLE 2M_Channel 39



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	4960	51.18	32.50	-44.92	38.77	74.00	35.23	247	352	Horizontal
2	7440	44.51	36.46	-41.83	39.15	74.00	34.85	365	327	Horizontal
3	9920	41.11	38.51	-37.22	42.40	74.00	31.60	199	251	Horizontal
4	4960	46.35	32.50	-44.92	33.94	54.00	20.06	213	352	Horizontal
5	9594	37.48	38.54	-38.10	37.92	54.00	16.08	182	359	Horizontal
6	15235.5	32.20	38.89	-32.97	38.12	54.00	15.88	158	184	Horizontal



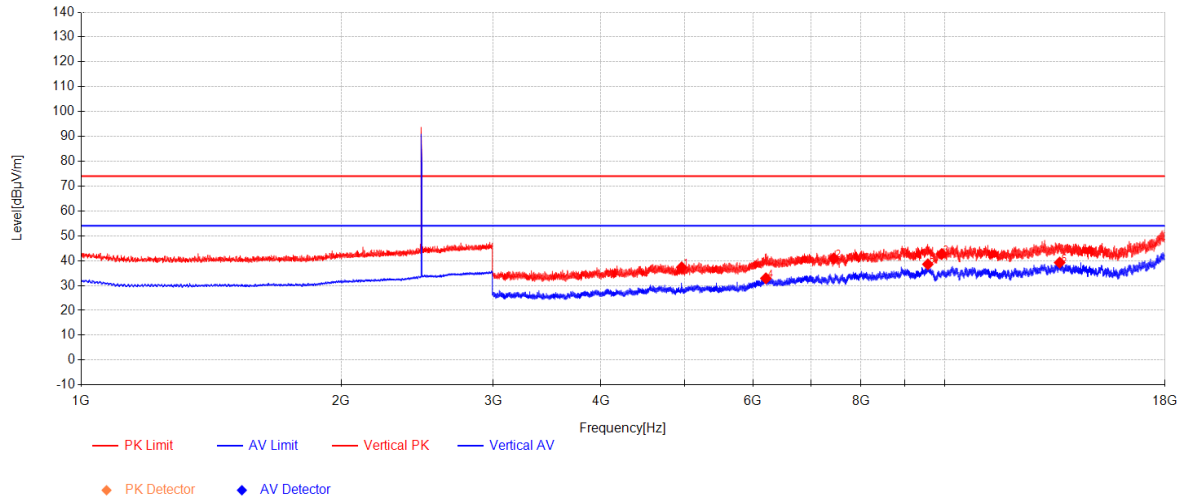
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BLE 2M_Channel 39



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	49.72	32.50	-44.92	37.31	74.00	36.69	315	352	Vertical
2	7440	46.26	36.46	-41.83	40.90	74.00	33.10	222	360	Vertical
3	9920	41.34	38.51	-37.22	42.63	74.00	31.37	165	110	Vertical
4	6209	40.97	34.62	-42.70	32.89	54.00	21.11	247	328	Vertical
5	9562.5	38.12	38.54	-38.12	38.55	54.00	15.45	189	218	Vertical
6	13589.5	33.93	39.95	-34.65	39.23	54.00	14.77	283	359	Vertical



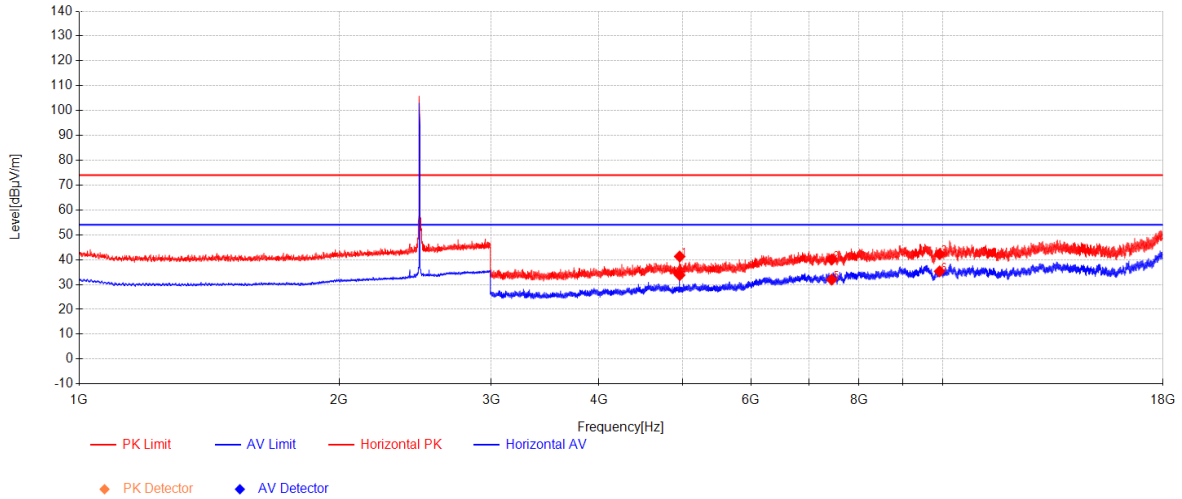
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For Sample #2(Worst):

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	53.68	32.50	-44.92	41.27	74.00	32.73	296	350	Horizontal
2	7440	45.41	36.46	-41.83	40.05	74.00	33.95	265	359	Horizontal
3	9920	40.93	38.51	-37.22	42.22	74.00	31.78	284	320	Horizontal
4	4960	46.21	32.50	-44.92	33.80	54.00	20.20	142	350	Horizontal
5	7440	37.35	36.46	-41.83	31.99	54.00	22.01	263	3	Horizontal
6	9920	33.99	38.51	-37.22	35.28	54.00	18.72	224	320	Horizontal

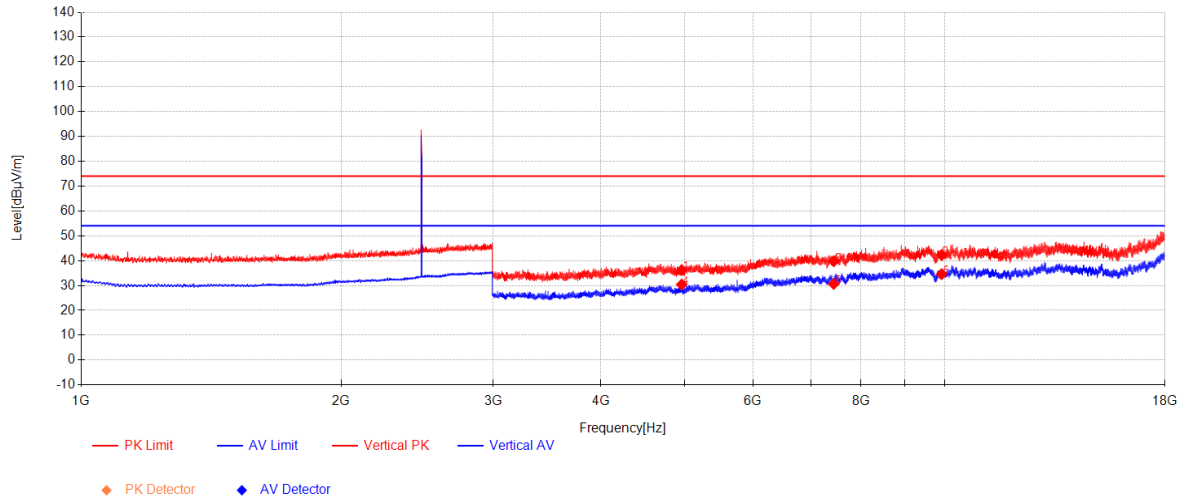


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BLE 1M_Channel 39



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	48.62	32.50	-44.92	36.21	74.00	37.79	265	359	Vertical
2	7440	45.10	36.46	-41.83	39.74	74.00	34.26	284	217	Vertical
3	9920	40.96	38.51	-37.22	42.25	74.00	31.75	142	72	Vertical
4	4960	42.80	32.50	-44.92	30.39	54.00	23.61	263	181	Vertical
5	7440	35.99	36.46	-41.83	30.63	54.00	23.37	142	181	Vertical
6	9920	33.29	38.51	-37.22	34.58	54.00	19.42	263	37	Vertical



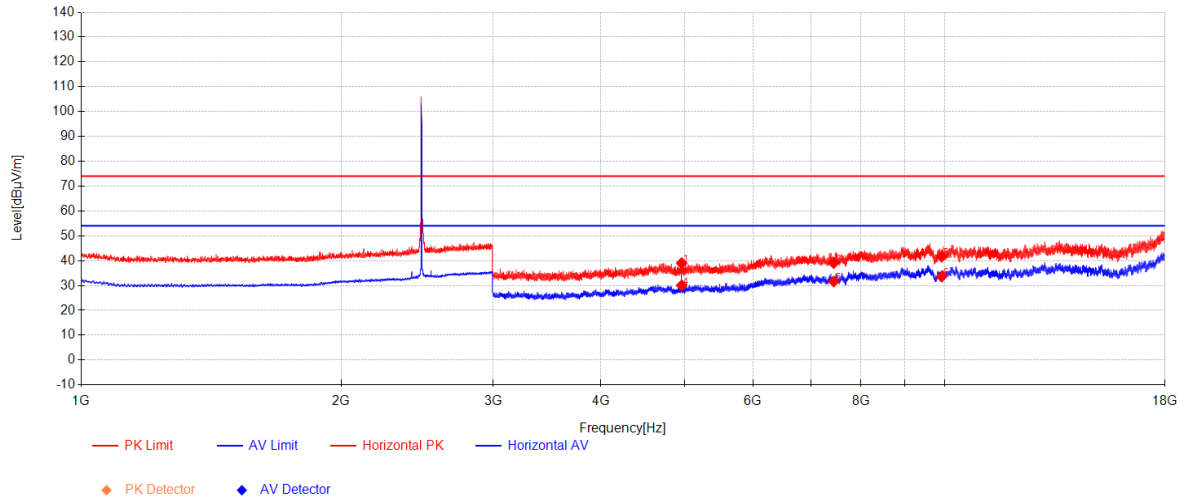
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BLE 2M_Channel 39



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	4960	51.42	32.50	-44.92	39.01	74.00	34.99	296	292	Horizontal
2	7440	44.41	36.46	-41.83	39.05	74.00	34.95	265	76	Horizontal
3	9920	40.36	38.51	-37.22	41.65	74.00	32.35	284	256	Horizontal
4	4960	42.46	32.50	-44.92	30.05	54.00	23.95	142	354	Horizontal
5	7440	36.98	36.46	-41.83	31.62	54.00	22.38	263	76	Horizontal
6	9920	32.31	38.51	-37.22	33.60	54.00	20.40	224	186	Horizontal

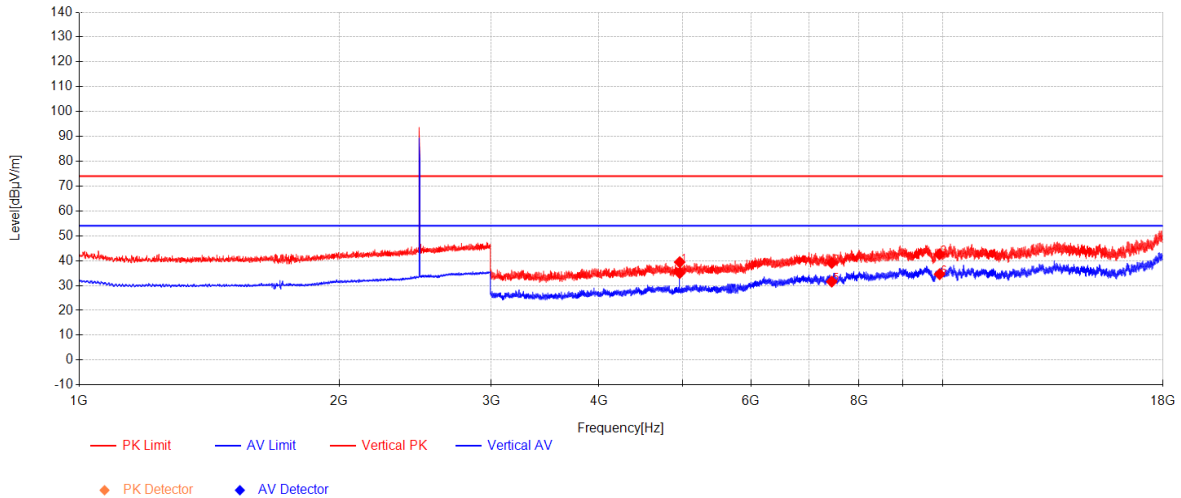


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BLE 2M_Channel 39



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	51.82	32.50	-44.92	39.41	74.00	34.59	296	186	Vertical
2	7440	44.43	36.46	-41.83	39.07	74.00	34.93	265	186	Vertical
3	9920	41.26	38.51	-37.22	42.55	74.00	31.45	284	3	Vertical
4	4960.5	47.41	32.51	-44.92	35.00	54.00	19.00	102	186	Vertical
5	7440	36.92	36.46	-41.83	31.56	54.00	22.44	263	38	Vertical
6	9920	33.27	38.51	-37.22	34.56	54.00	19.44	224	254	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.



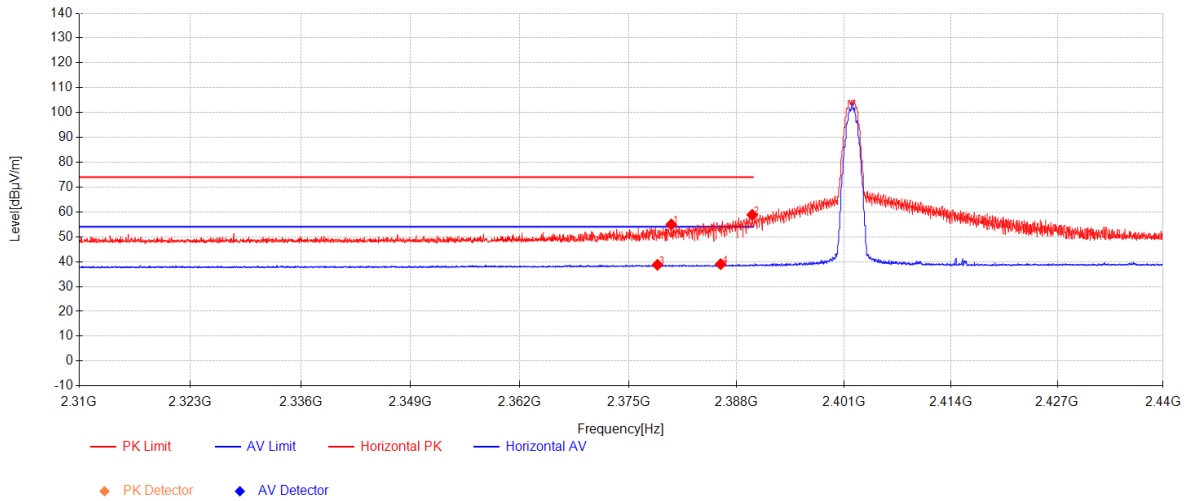
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Restricted bands around fundamental frequency

For Sample #1:

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	2380.135	51.75	27.66	-24.44	54.97	74.00	19.03	149	137	Horizontal
2	2389.885	55.58	27.68	-24.42	58.84	74.00	15.16	149	137	Horizontal
3	2378.4775	35.54	27.66	-24.45	38.75	54.00	15.25	149	137	Horizontal
4	2386.0825	35.77	27.67	-24.43	39.01	54.00	14.99	149	137	Horizontal



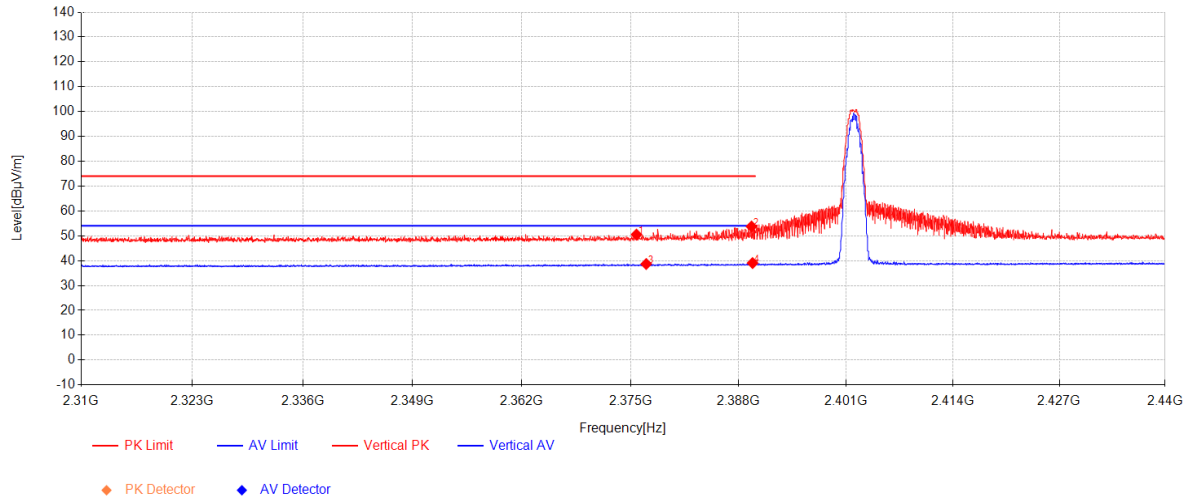
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BLE 1M_Channel 00



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	2375.715	47.28	27.65	-24.45	50.48	74.00	23.52	342	254	Vertical
2	2389.56	50.49	27.68	-24.42	53.75	74.00	20.25	342	254	Vertical
3	2376.885	35.46	27.65	-24.45	38.66	54.00	15.34	342	254	Vertical
4	2389.69	35.77	27.68	-24.42	39.03	54.00	14.97	342	254	Vertical



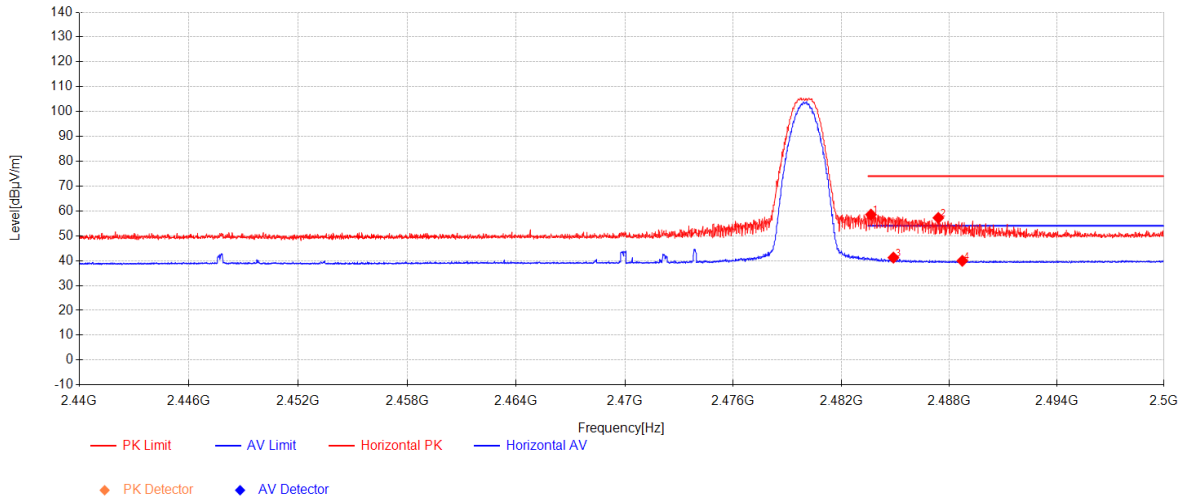
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BLE 1M_Channel 39



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	2483.65	54.62	27.87	-23.96	58.53	74.00	15.47	196	184	Horizontal
2	2487.4	53.27	27.87	-23.94	57.21	74.00	16.79	196	184	Horizontal
3	2484.895	37.30	27.87	-23.95	41.22	54.00	12.78	196	184	Horizontal
4	2488.735	35.99	27.88	-23.93	39.94	54.00	14.06	196	184	Horizontal



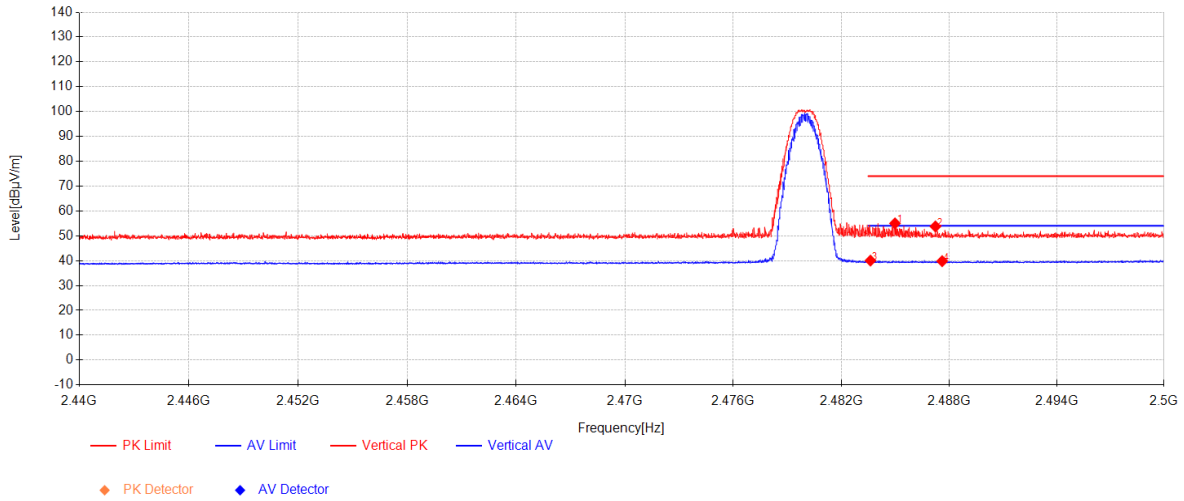
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1	2484.985	51.10	27.87	-23.95	55.02	74.00	18.98	244	273	Vertical
2	2487.235	49.82	27.87	-23.94	53.76	74.00	20.24	244	273	Vertical
3	2483.62	36.11	27.87	-23.96	40.02	54.00	13.98	244	273	Vertical
4	2487.61	35.86	27.88	-23.94	39.80	54.00	14.20	244	273	Vertical



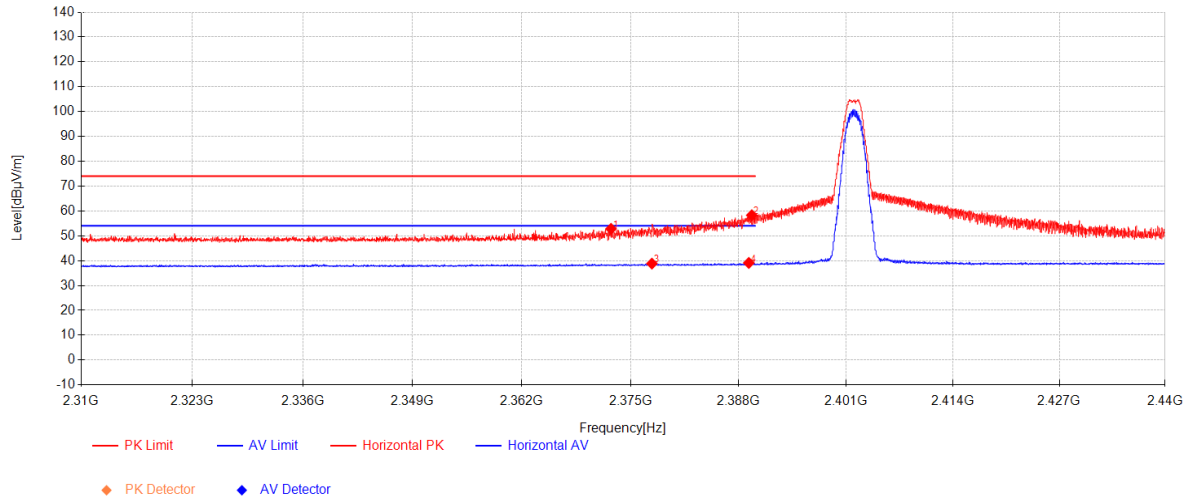
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BLE 2M_Channel 00



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	2372.66	49.61	27.65	-24.46	52.80	74.00	21.20	146	178	Horizontal
2	2389.5925	55.02	27.68	-24.42	58.28	74.00	15.72	146	178	Horizontal
3	2377.5675	35.60	27.66	-24.45	38.81	54.00	15.19	146	178	Horizontal
4	2389.235	35.84	27.68	-24.42	39.09	54.00	14.91	146	178	Horizontal



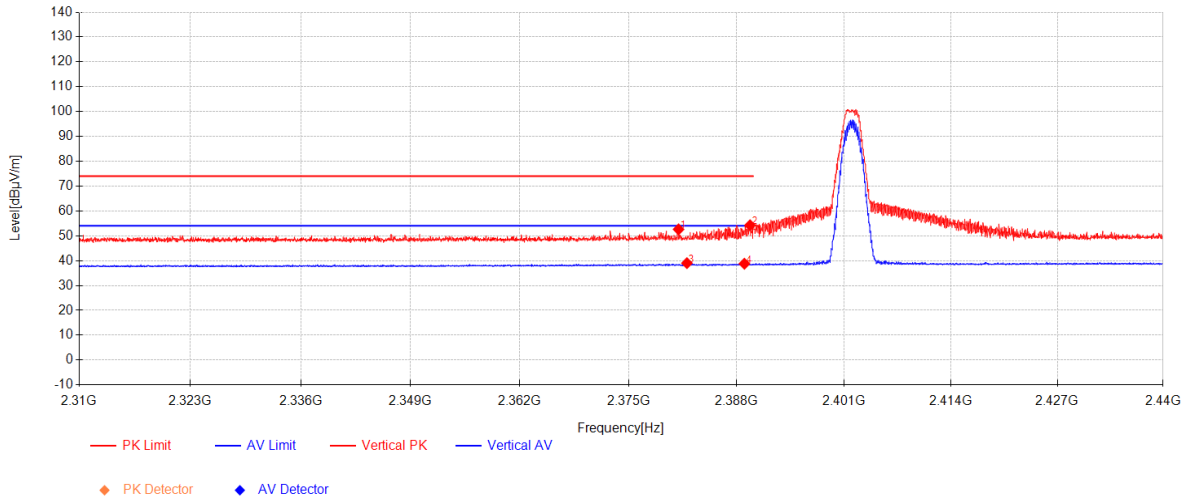
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BLE 2M_Channel 00



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	2381.0125	49.38	27.66	-24.44	52.60	74.00	21.40	329	286	Vertical
2	2389.625	50.97	27.68	-24.42	54.23	74.00	19.77	329	286	Vertical
3	2382.02	35.78	27.66	-24.44	39.00	54.00	15.00	329	286	Vertical
4	2388.9425	35.51	27.68	-24.42	38.76	54.00	15.24	329	286	Vertical



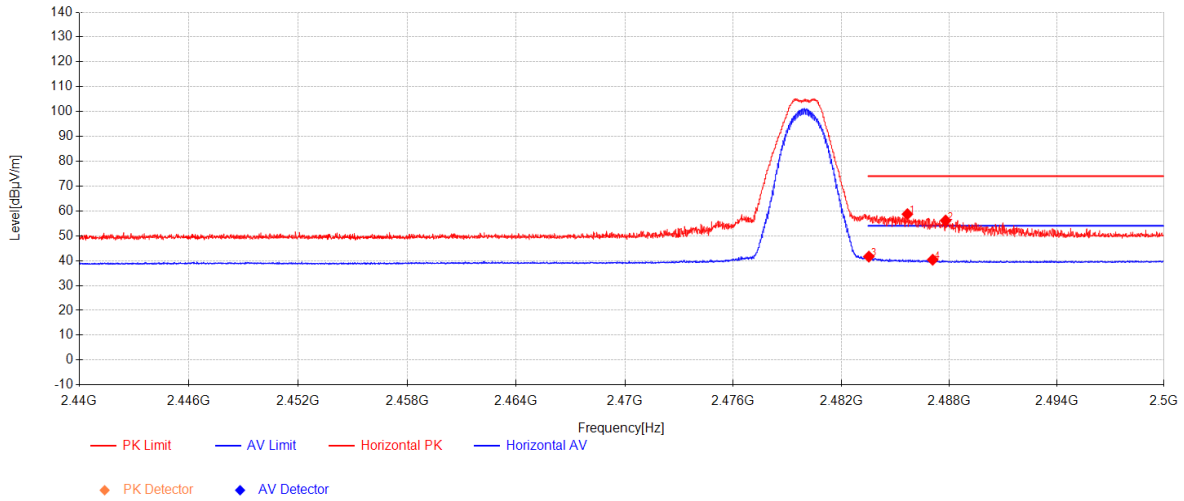
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.675	54.79	27.87	-23.95	58.72	74.00	15.28	223	148	Horizontal
2	2487.805	52.21	27.88	-23.93	56.15	74.00	17.85	223	148	Horizontal
3	2483.53	37.72	27.87	-23.96	41.63	54.00	12.37	223	148	Horizontal
4	2487.085	36.44	27.87	-23.94	40.38	54.00	13.62	223	148	Horizontal



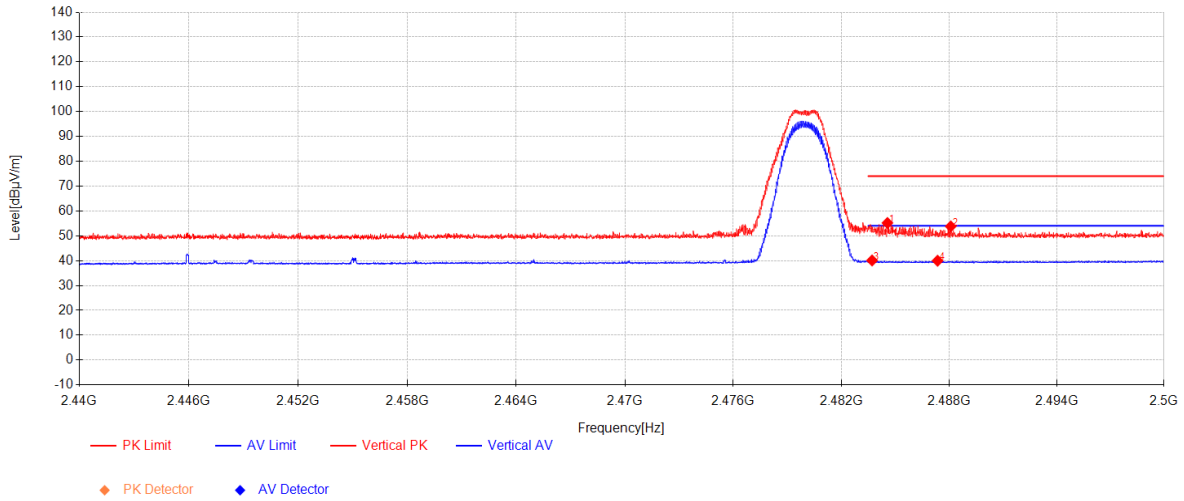
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1	2484.565	51.25	27.87	-23.95	55.17	74.00	18.83	253	327	Vertical
2	2488.09	49.85	27.88	-23.93	53.79	74.00	20.21	253	327	Vertical
3	2483.71	36.18	27.87	-23.96	40.09	54.00	13.91	253	327	Vertical
4	2487.355	36.02	27.87	-23.94	39.96	54.00	14.04	253	327	Vertical



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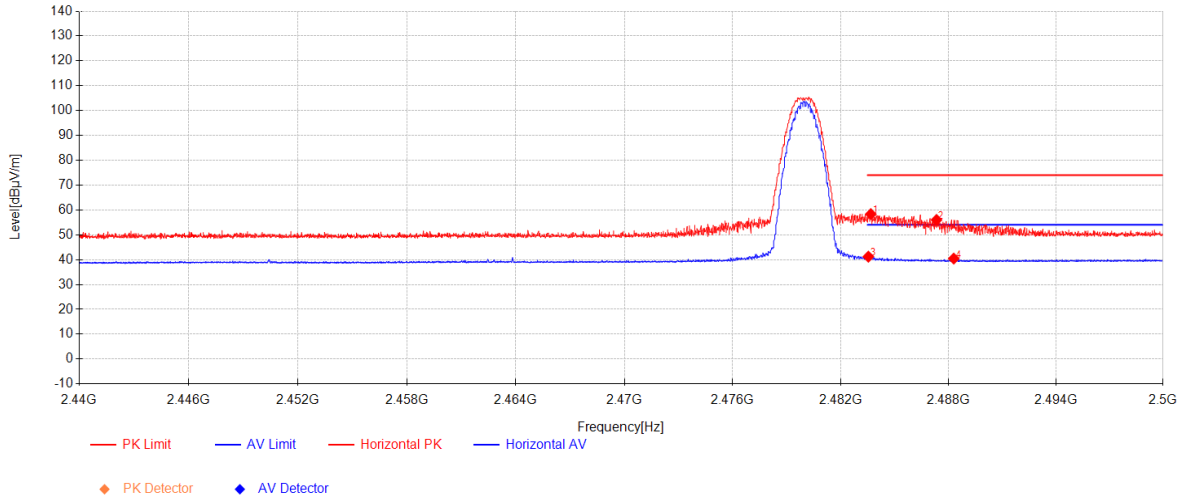
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For Sample #2(Worst):

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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	2483.68	54.43	27.87	-23.96	58.34	74.00	15.66	163	170	Horizontal
2	2487.34	52.06	27.87	-23.94	56.00	74.00	18.00	163	170	Horizontal
3	2483.545	37.29	27.87	-23.96	41.20	54.00	12.80	163	170	Horizontal
4	2488.3	36.49	27.88	-23.93	40.43	54.00	13.57	163	170	Horizontal

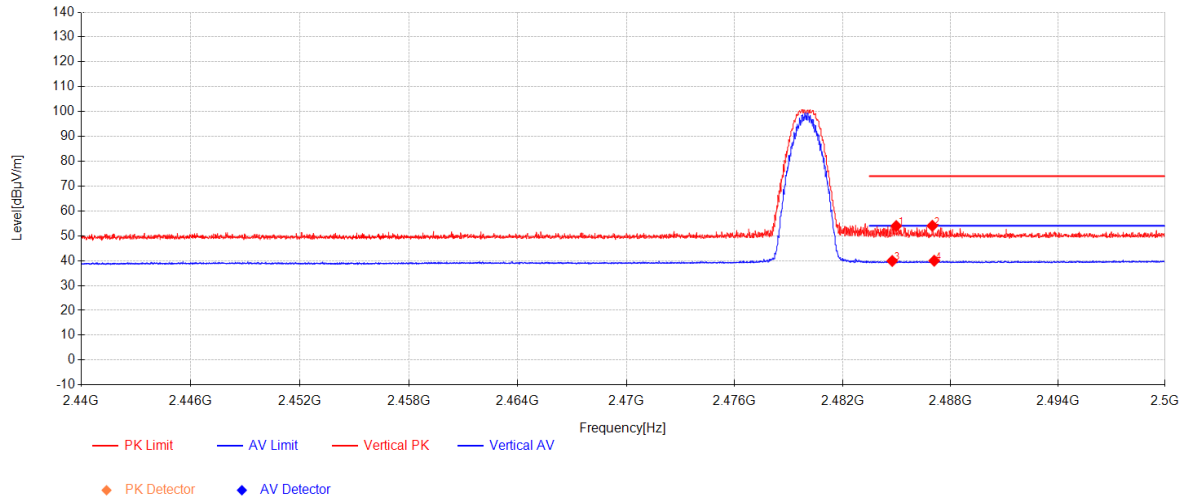


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1	2484.985	50.05	27.87	-23.95	53.97	74.00	20.03	341	289	Vertical
2	2486.995	50.09	27.87	-23.94	54.03	74.00	19.97	341	289	Vertical
3	2484.76	35.97	27.87	-23.95	39.89	54.00	14.11	341	289	Vertical
4	2487.1	36.02	27.87	-23.94	39.96	54.00	14.04	341	289	Vertical



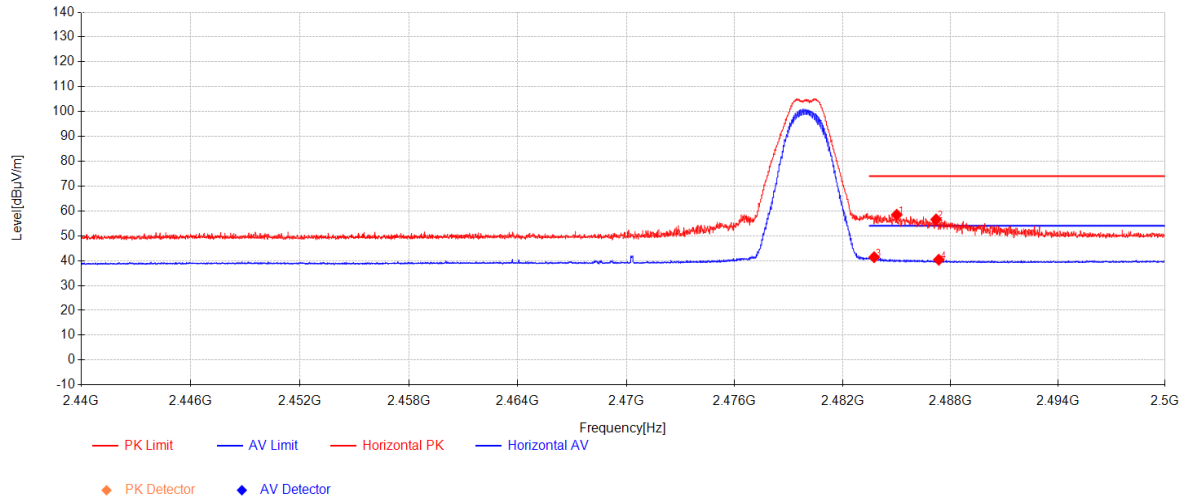
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1	2485.015	54.54	27.87	-23.95	58.46	74.00	15.54	325	174	Horizontal
2	2487.205	52.64	27.87	-23.94	56.58	74.00	17.42	325	174	Horizontal
3	2483.755	37.49	27.87	-23.96	41.40	54.00	12.60	325	174	Horizontal
4	2487.355	36.43	27.87	-23.94	40.37	54.00	13.63	325	174	Horizontal

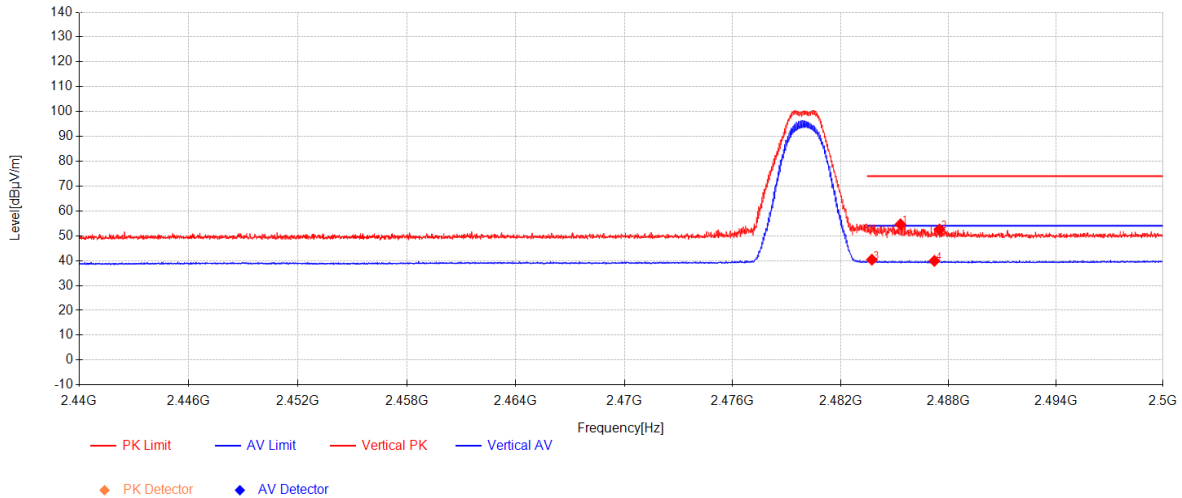


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1	2485.33	50.71	27.87	-23.95	54.63	74.00	19.37	286	280	Vertical
2	2487.505	48.59	27.88	-23.94	52.53	74.00	21.47	286	280	Vertical
3	2483.74	36.48	27.87	-23.96	40.39	54.00	13.61	286	280	Vertical
4	2487.22	35.98	27.87	-23.94	39.92	54.00	14.08	286	280	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)

---End of Report---



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