

Report No.: SEWM2207000111RG02

Rev.: 01

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TEST REPORT

Application No.: SEWM2207000111RG
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: Tablet Computer
Model No.: 22081283G
Trade Mark: Redmi
FCC ID: 2AFZZ283G
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/07/07
Date of Test: 2022/07/11 to 2022/07/21
Date of Issue: 2022/07/21

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

Panta Sun
Wireless Laboratory Manager



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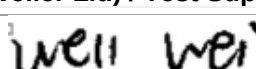
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/07/21		Original

Prepared By	
	(Weller Liu) / Test Supervisor
Checked By	
	(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

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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:	Lves Cheng, King-p Li

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Tablet Computer
Model No.:	22081283G
Trade Mark:	Redmi
Hardware Version:	P1.1
Software Version:	MIUI 13
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 V5.1
Modulation Type:	GFSK
Number of Channel:	40
Rates Type*:	☒ Provided by client 1M PHY 2M PHY
Antenna Type:	PIFA Antenna
Antenna Gain*:	☒ Provided by client -1.1dBi
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: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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

Remark:

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

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



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.87
LTNV	0	3.87
HTNV	40	3.87
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -1.1dBi. (Provided by client)*. <i>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.</i> <i>Remark:</i> As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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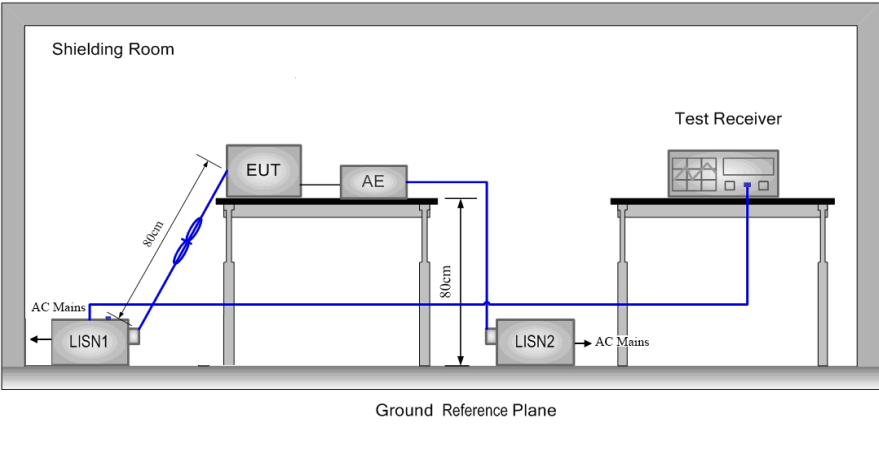
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Test Setup:	
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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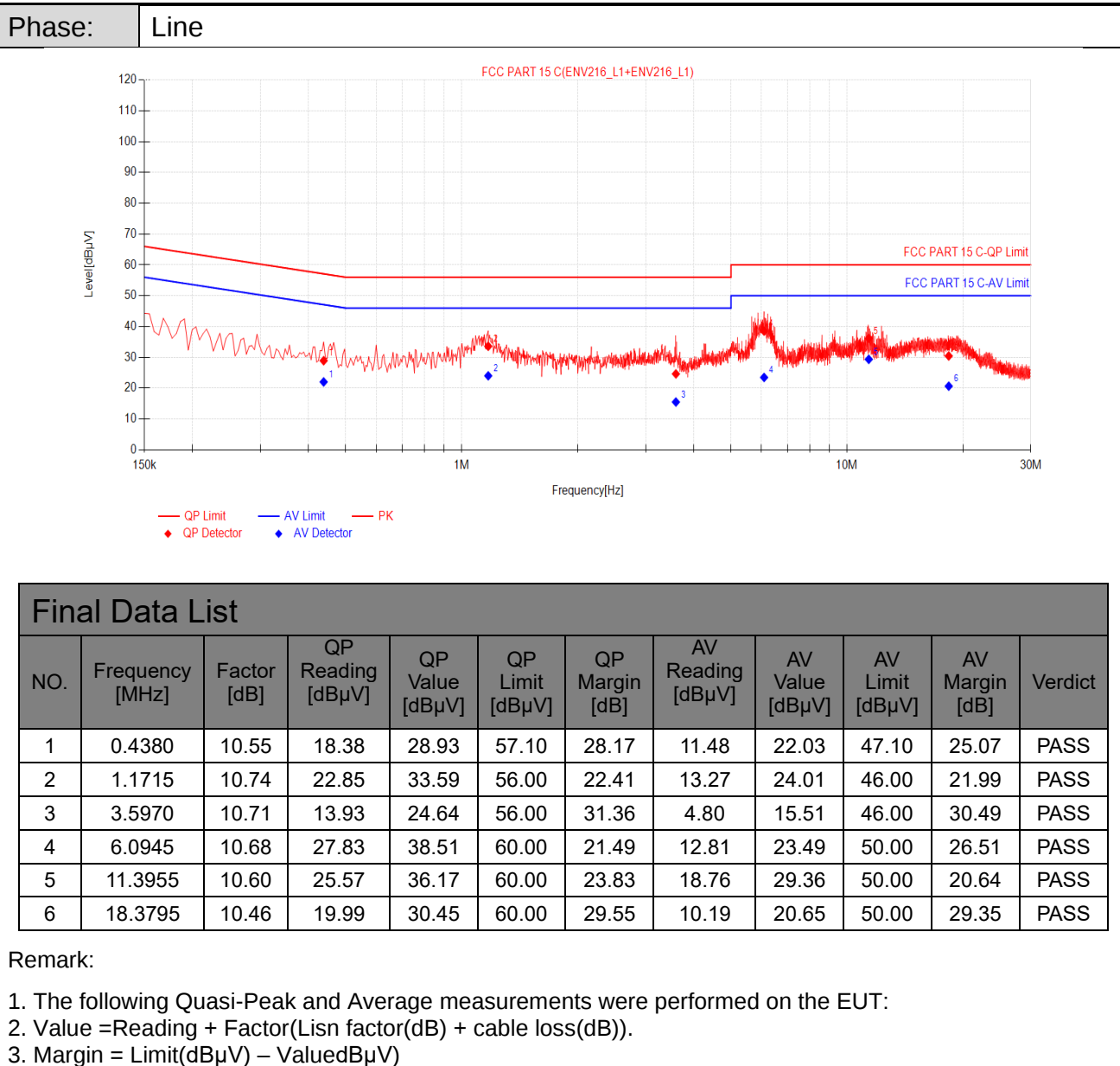
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Measurement Data

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

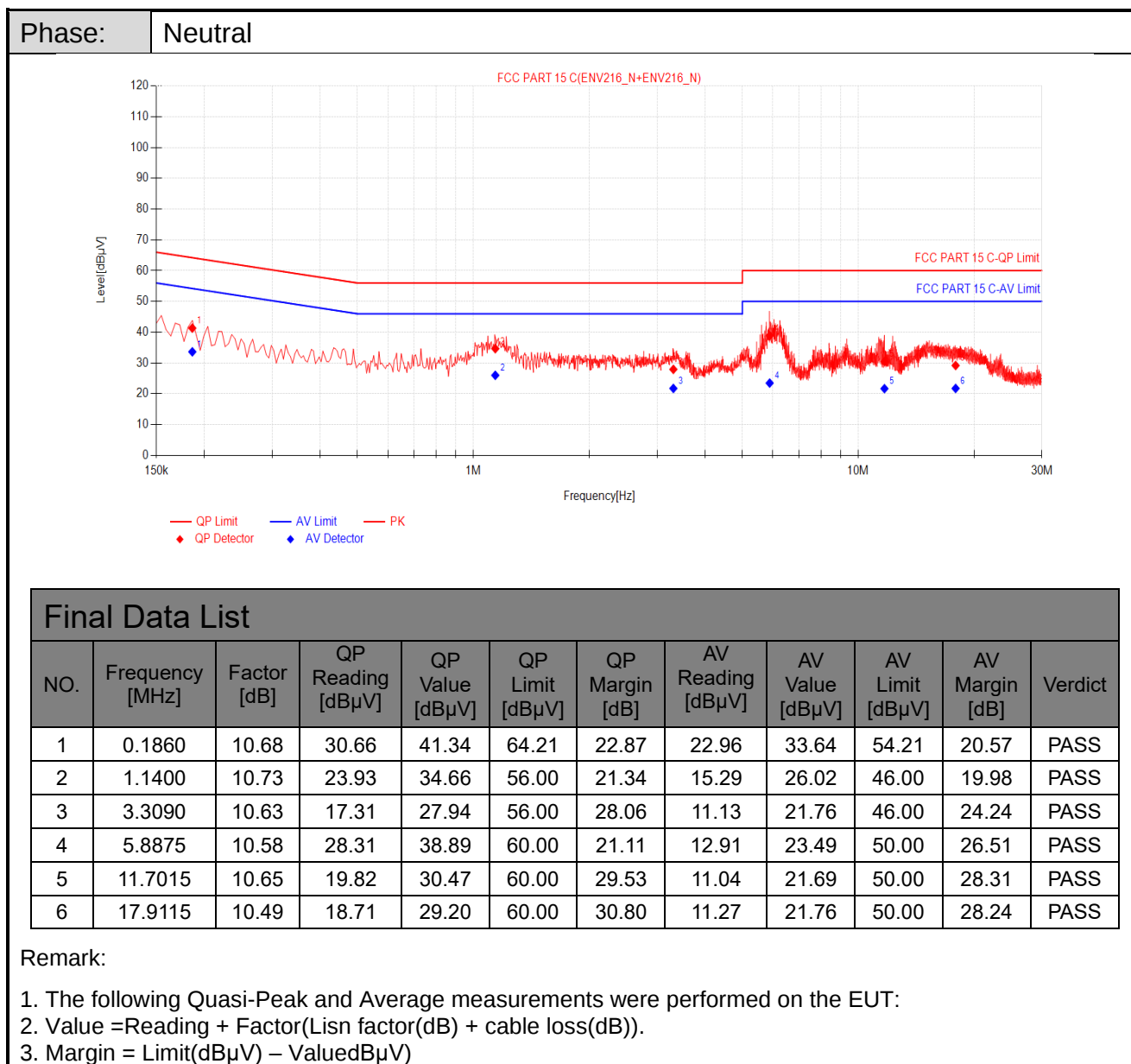
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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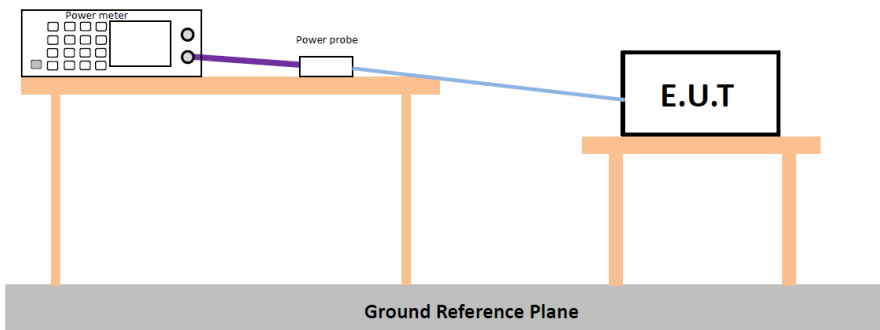
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 * Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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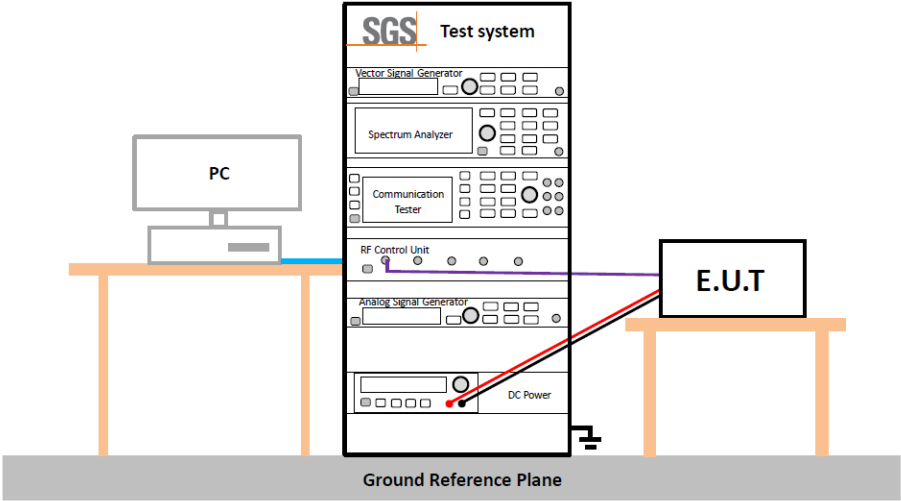
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 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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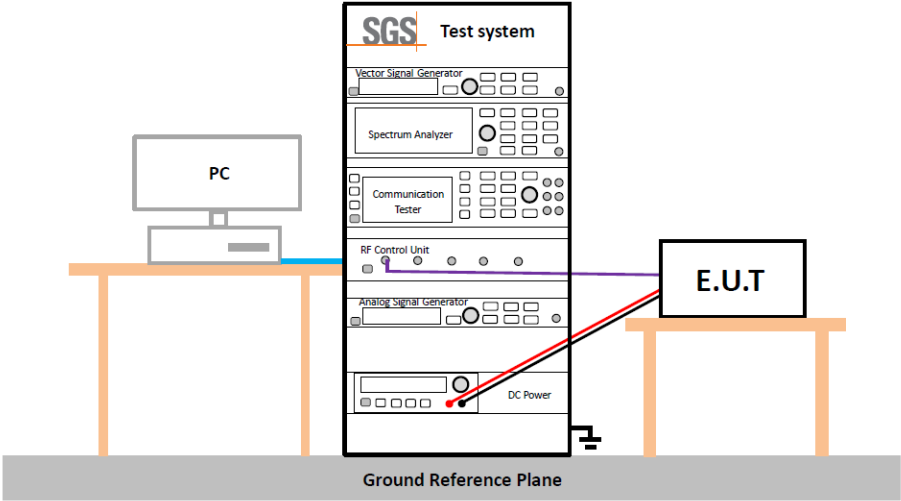
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4.6 Power Spectral Density

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:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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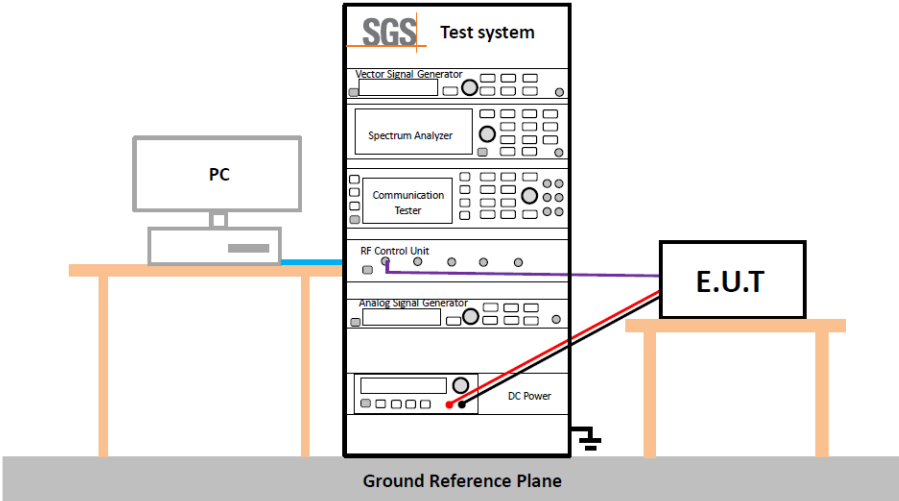
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4.7 Band-edge for RF Conducted Emissions

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



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4.9 Radiated Spurious Emissions

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

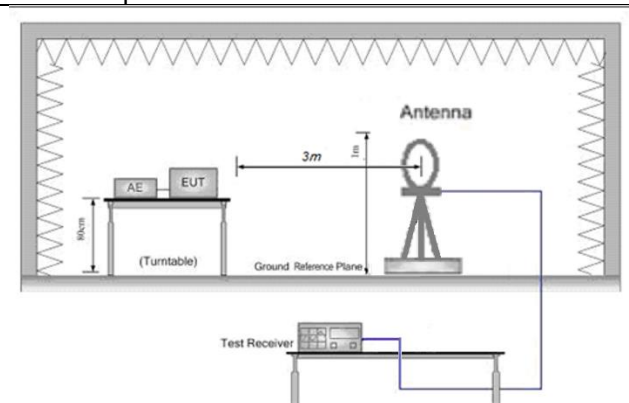


Figure 1. Below 30MHz

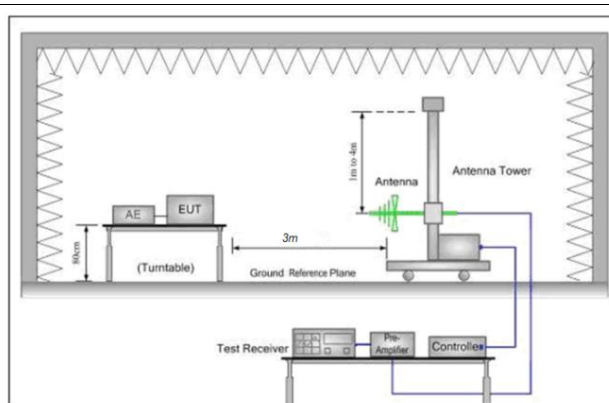


Figure 2. 30MHz to 1GHz

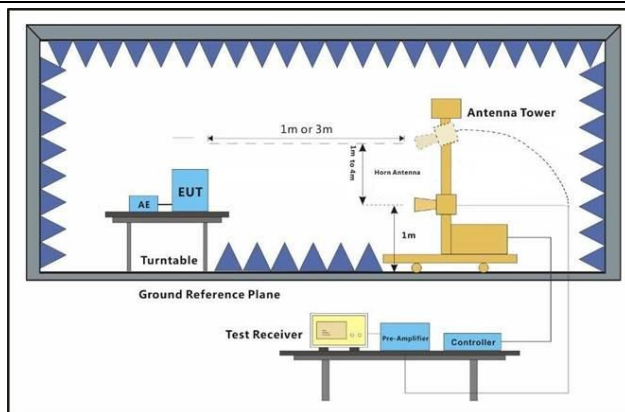


Figure 3. Above 1 GHz

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 (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 $20 \cdot \log(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements Below 1000MHz - RBW = 120 kHz - VBW = 300 kHz - Detector = Peak - Trace mode = max hold

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	Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • 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:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

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

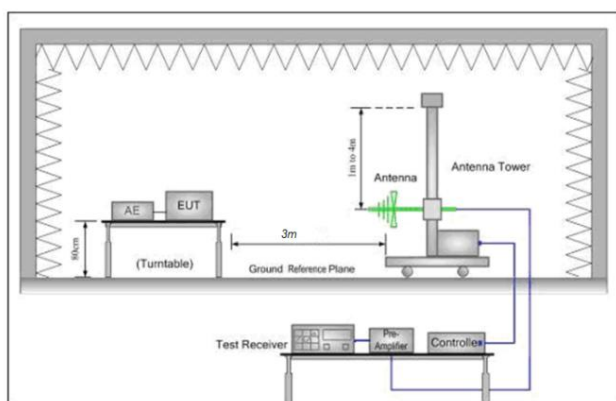


Figure 1. 30MHz to 1GHz

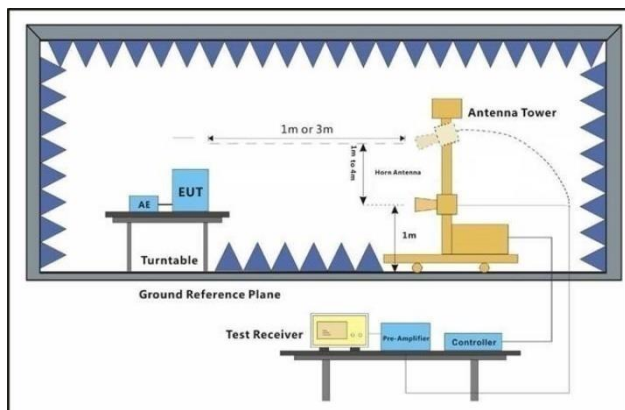


Figure 2. Above 1 GHz

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



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	bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel 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. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • 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:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\text{ GHz}$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\text{ GHz}$
7	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.80\text{dB}$ (30M -1GHz)
		$\pm 4.80\text{dB}$ (1GHz to 18GHz)
		$\pm 4.80\text{dB}$ (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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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
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 Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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 V4.0.0.1	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	0.70	2401.64	2402.34	≥0.5	PASS
		2440	0.70	2439.64	2440.34	≥0.5	PASS
		2480	0.70	2479.64	2480.34	≥0.5	PASS
BLE_2M	Ant1	2402	1.18	2401.41	2402.59	≥0.5	PASS
		2440	1.19	2439.40	2440.59	≥0.5	PASS
		2480	1.19	2479.40	2480.59	≥0.5	PASS



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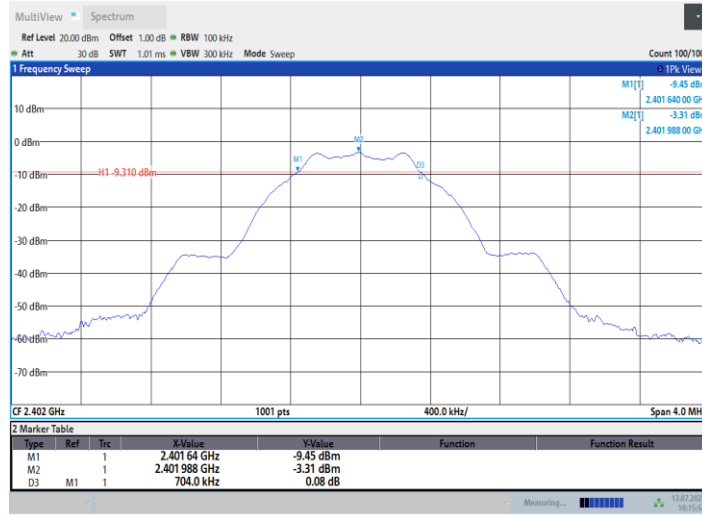
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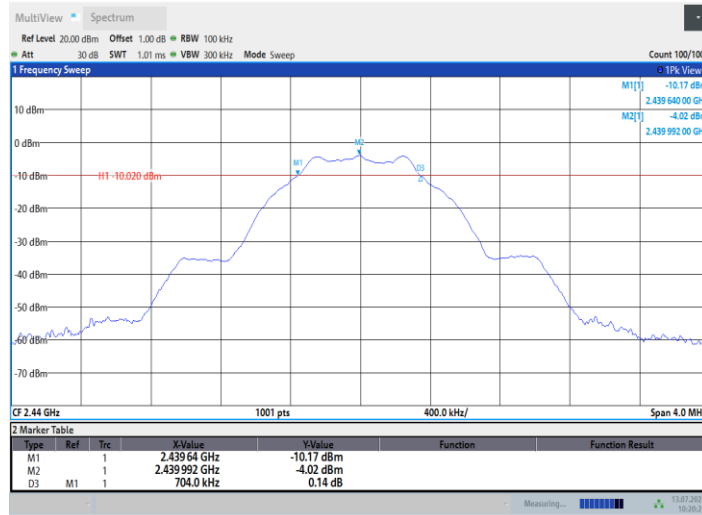
Test Graphs

BLE_1M_Ant1_2402



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BLE_1M_Ant1_2440



10:20:27 13.07.2022



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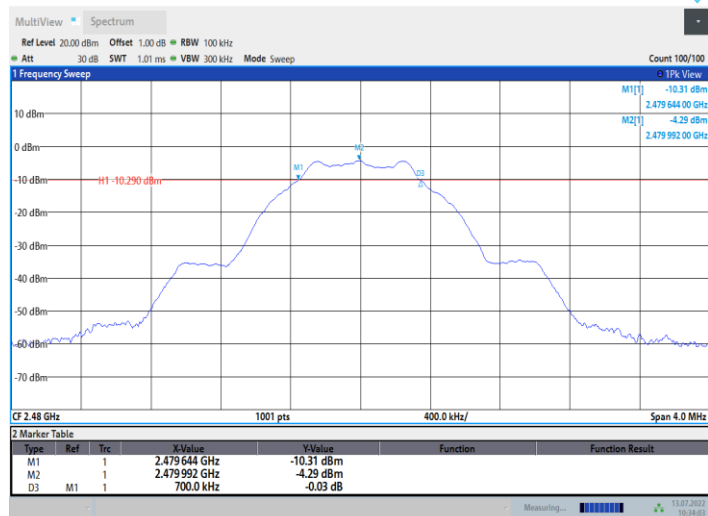
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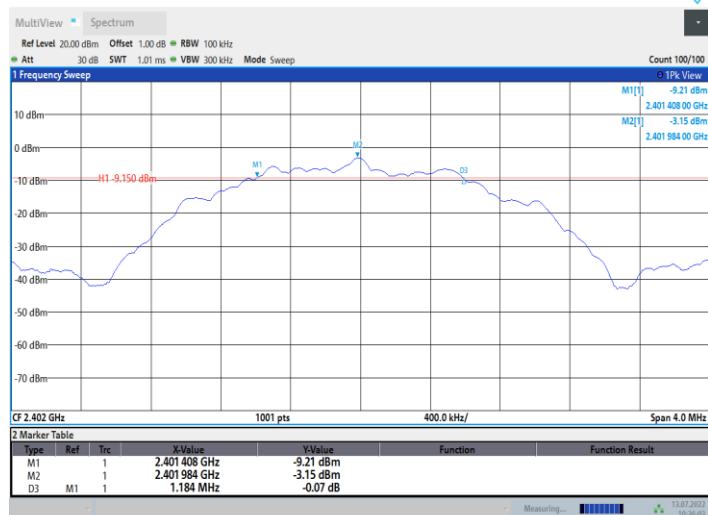
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BLE_1M_Ant1_2480



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BLE_2M_Ant1_2402



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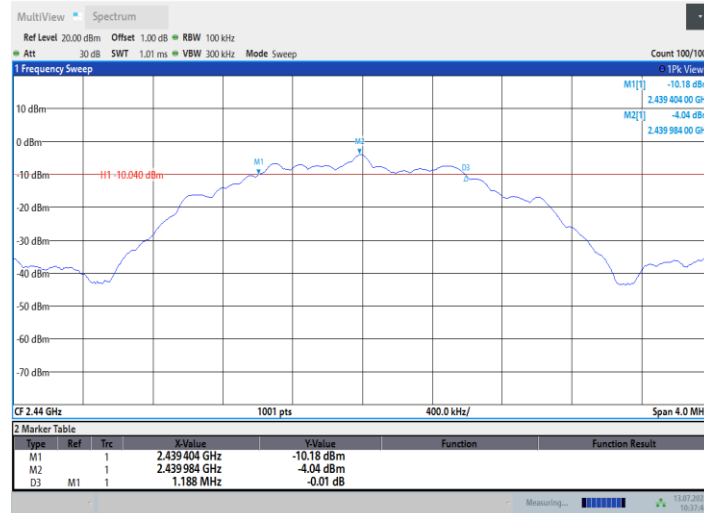
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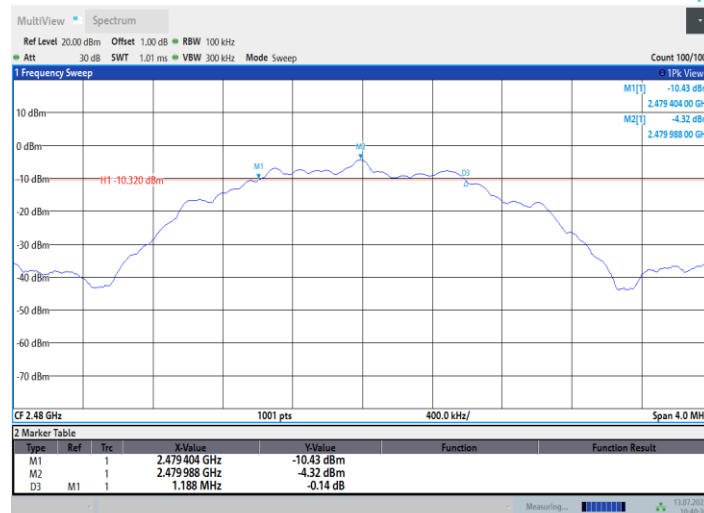
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BLE_2M_Ant1_2440



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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	1.035	2401.485	2402.520	---	---
		2440	1.036	2439.486	2440.521	---	---
		2480	1.035	2479.486	2480.521	---	---
BLE_2M	Ant1	2402	2.055	2400.986	2403.041	---	---
		2440	2.056	2438.987	2441.042	---	---
		2480	2.055	2478.986	2481.041	---	---



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Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



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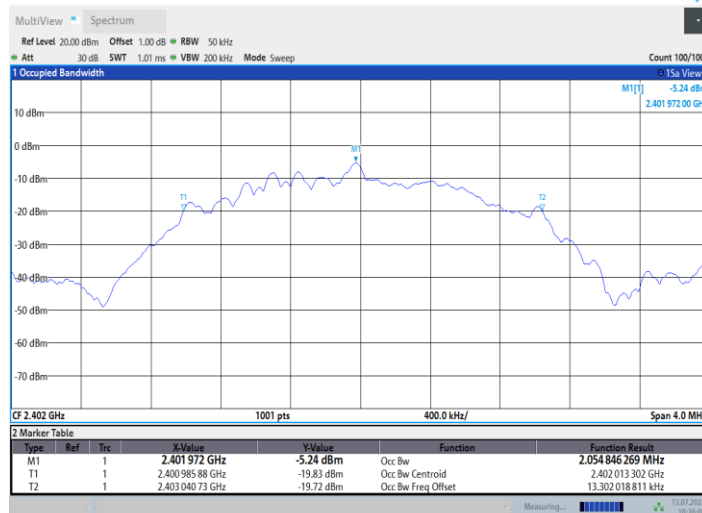
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BLE_1M_Ant1_2480



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BLE_2M_Ant1_2402



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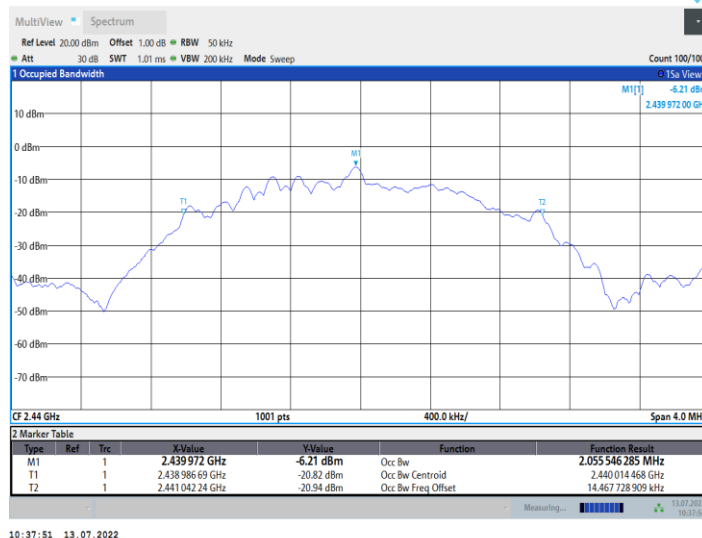
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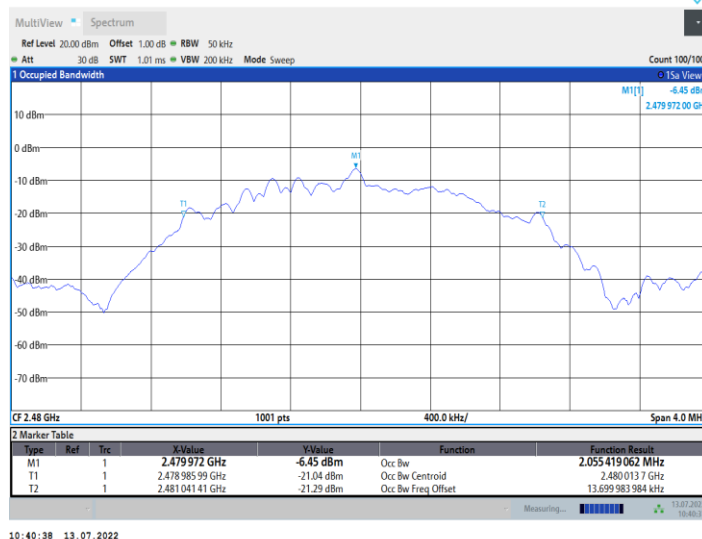
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BLE_2M_Ant1_2440



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BLE_2M_Ant1_2480



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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	-2.01	≤30	PASS
		2440	-2.81	≤30	PASS
		2480	-3.12	≤30	PASS
BLE_2M	Ant1	2402	-2.01	≤30	PASS
		2440	-2.78	≤30	PASS
		2480	-3.18	≤30	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.85	≤8.00	PASS
		2440	-18.56	≤8.00	PASS
		2480	-18.79	≤8.00	PASS
BLE_2M	Ant1	2402	-19.7	≤8.00	PASS
		2440	-20.6	≤8.00	PASS
		2480	-20.95	≤8.00	PASS



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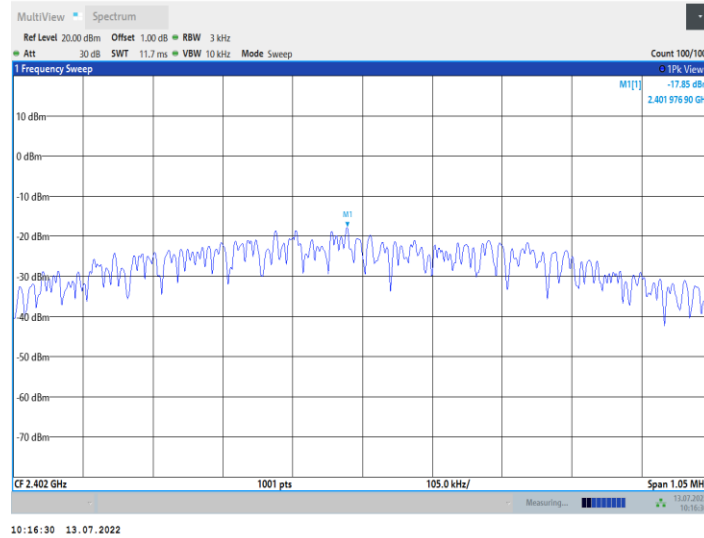
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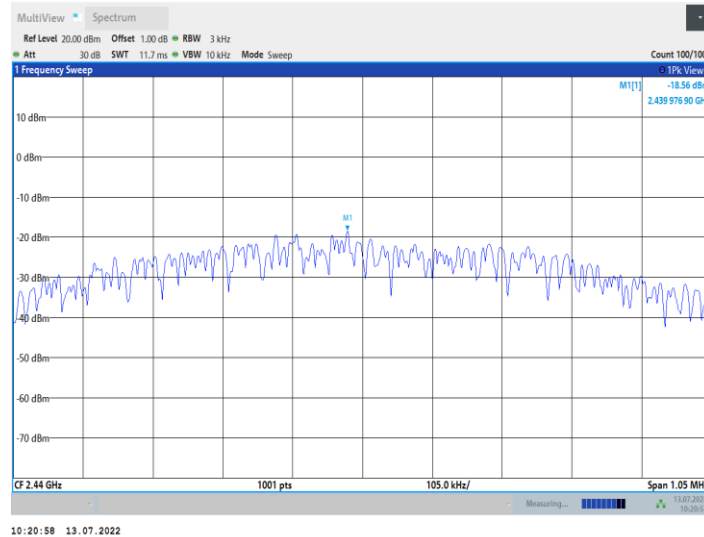
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Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



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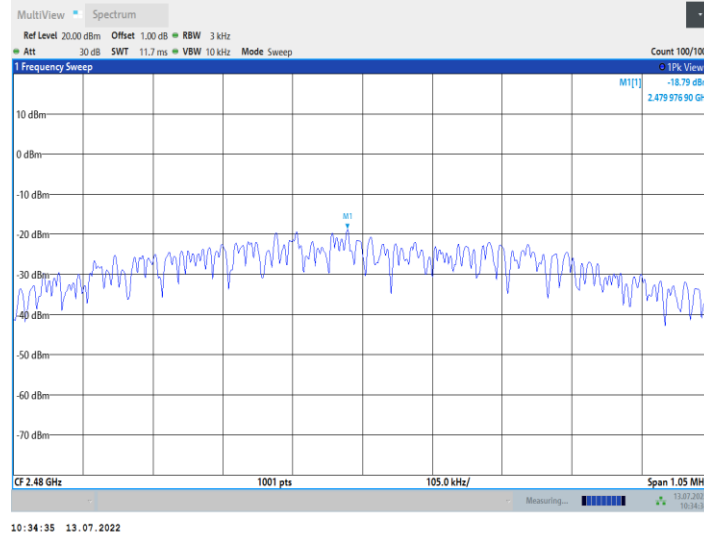
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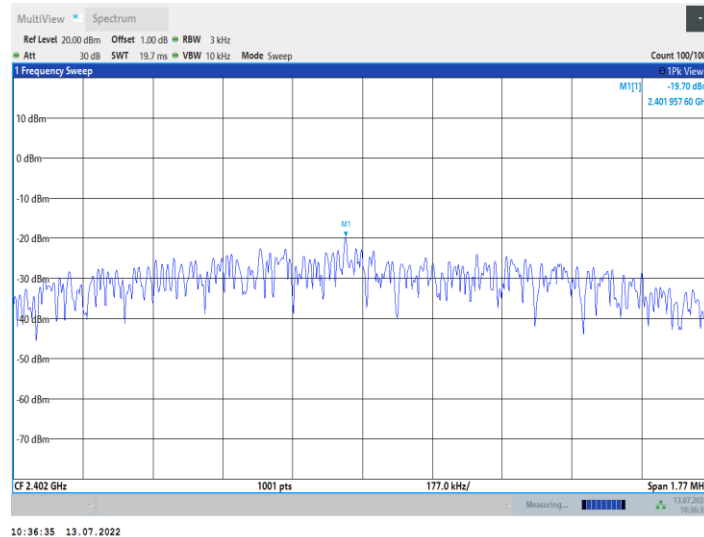
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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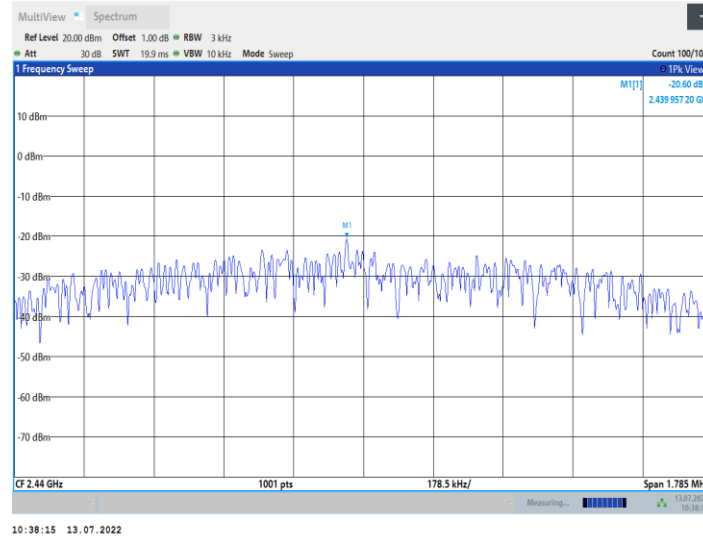
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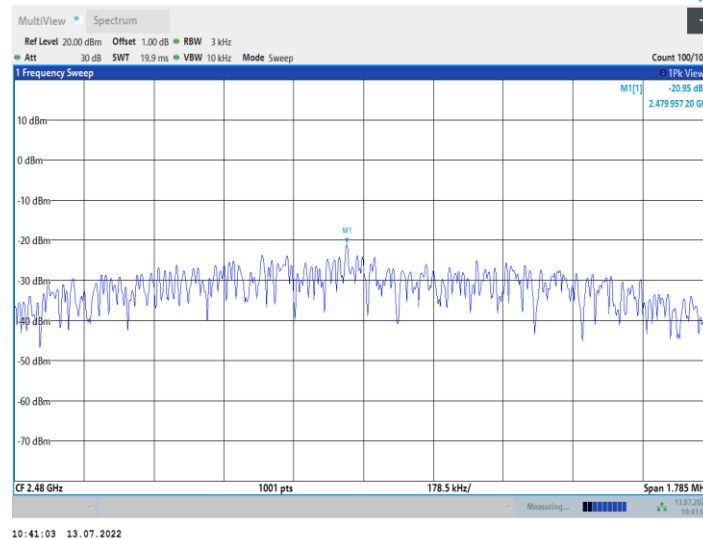
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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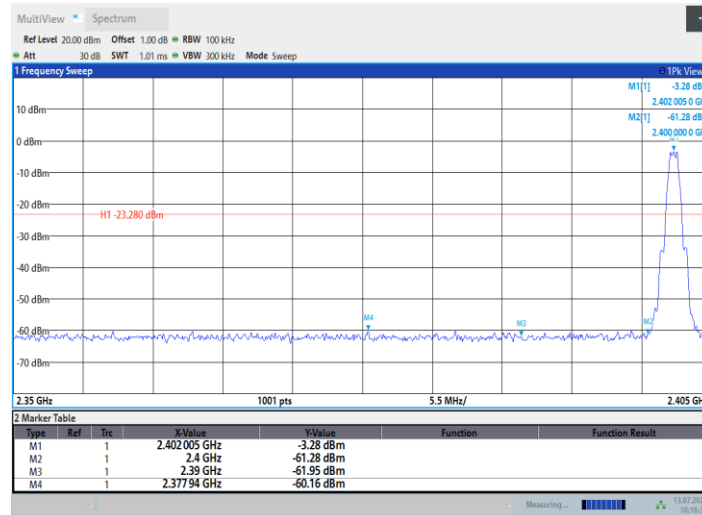
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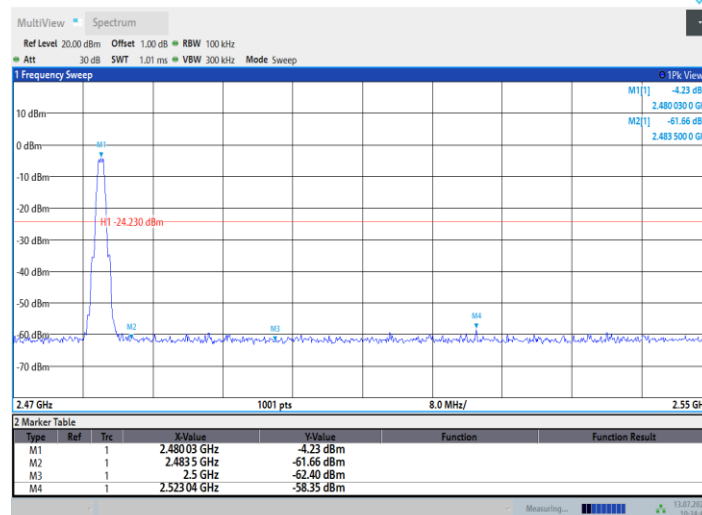
Band edge measurements Test Graphs

BLE 1M Ant1 Low 2402



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BLE 1M Ant1 High 2480



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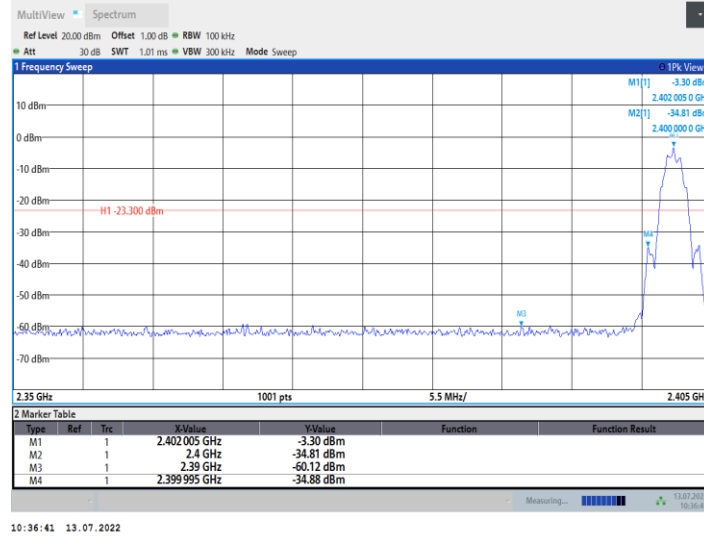
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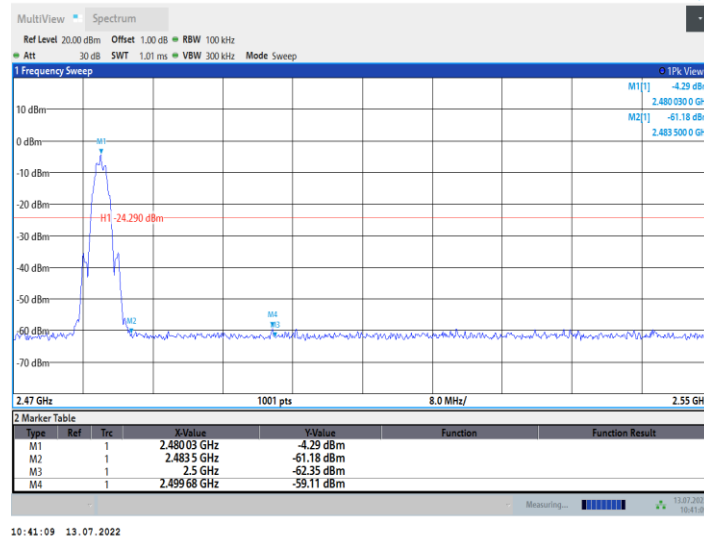
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BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



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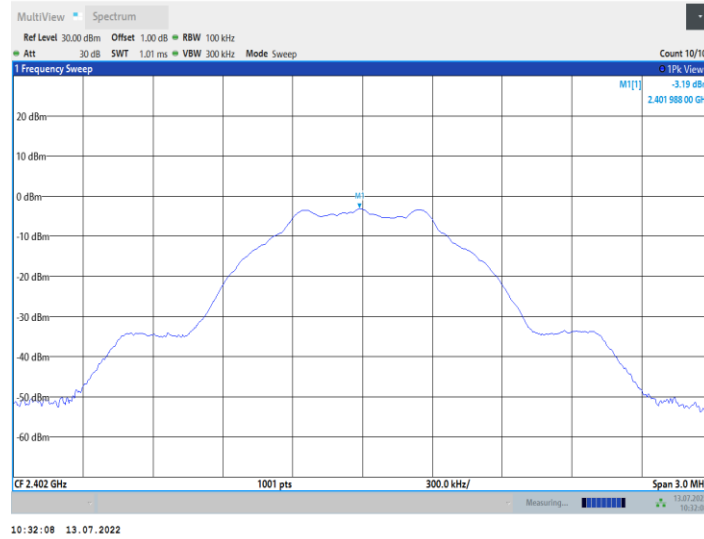
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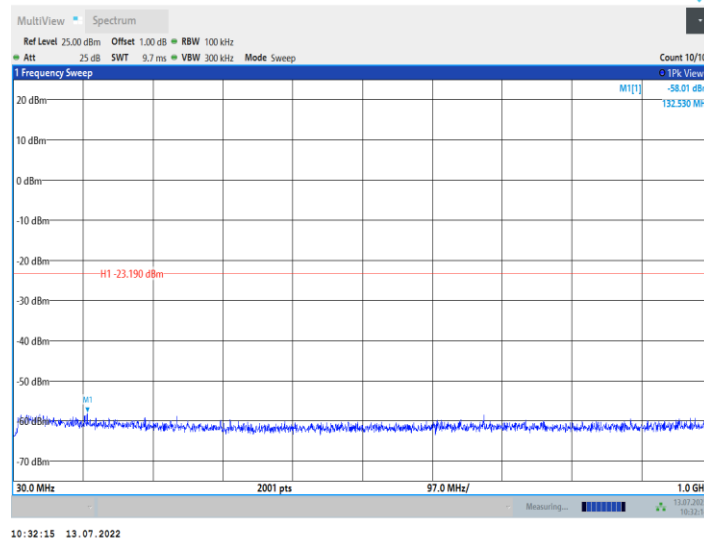
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Conducted Spurious Emission Test Graphs

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BLE_1M_Ant1_2402_30~1000



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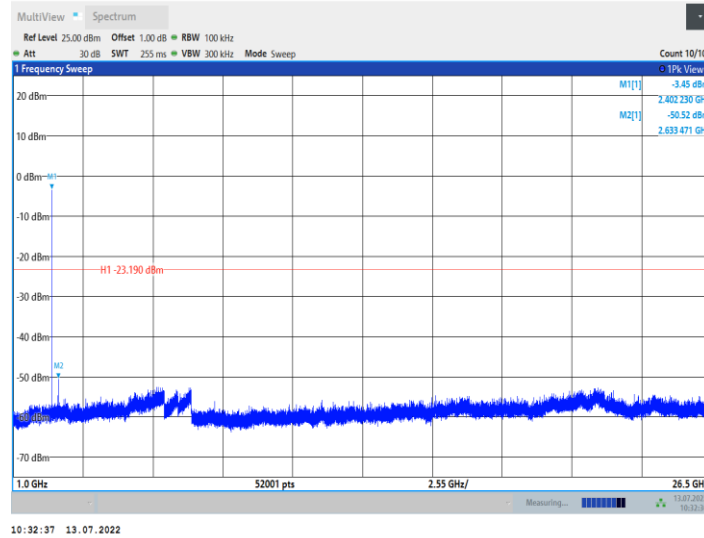
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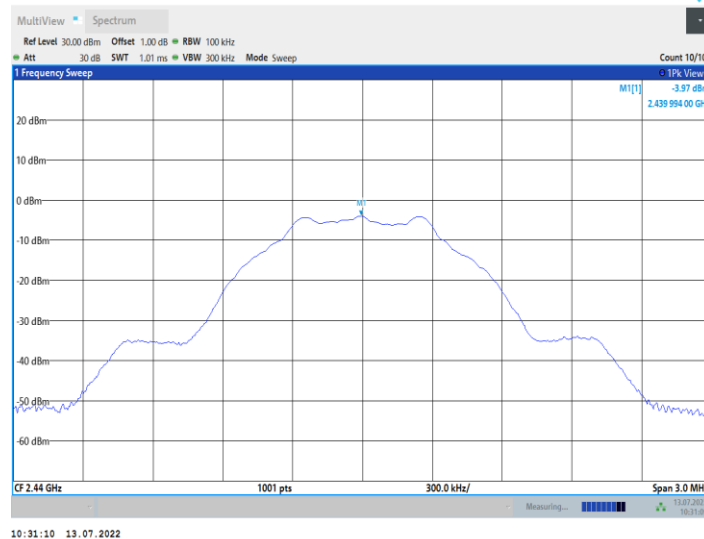
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BLE_1M_Ant1_2402_1000~26500



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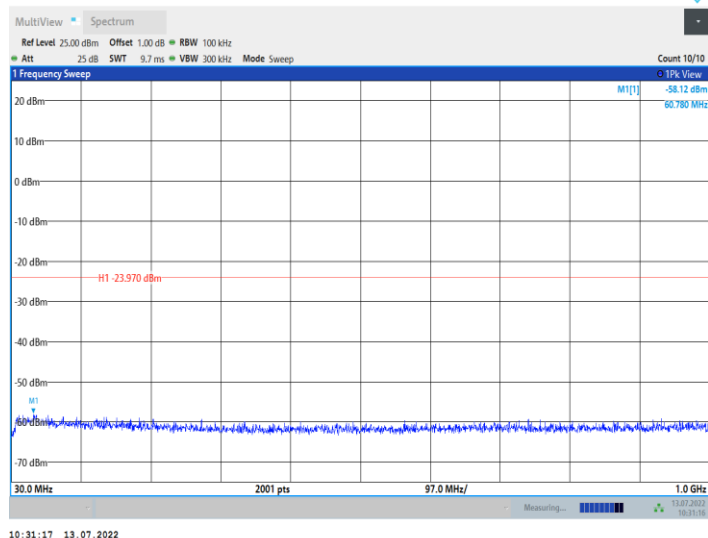
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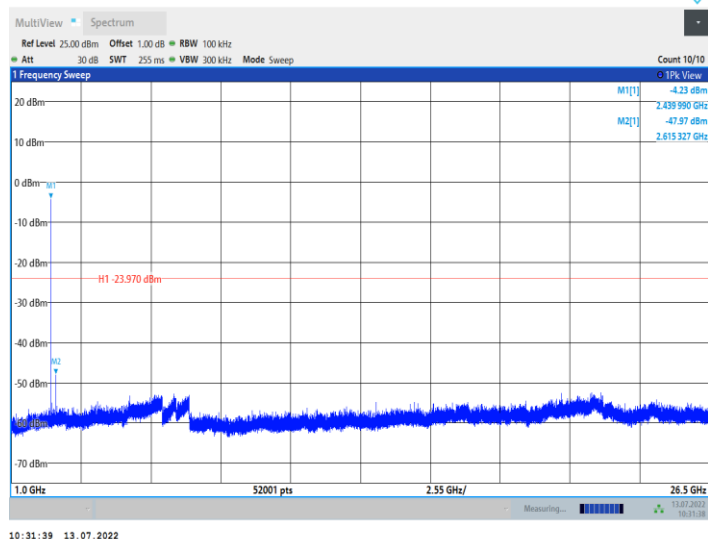
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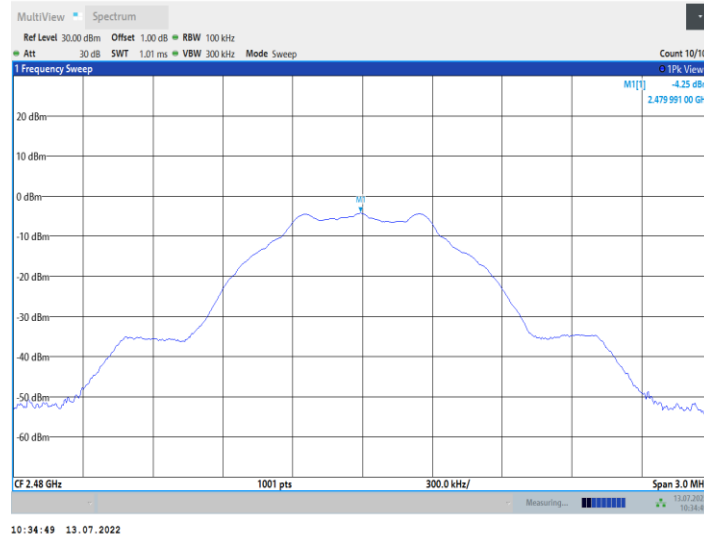
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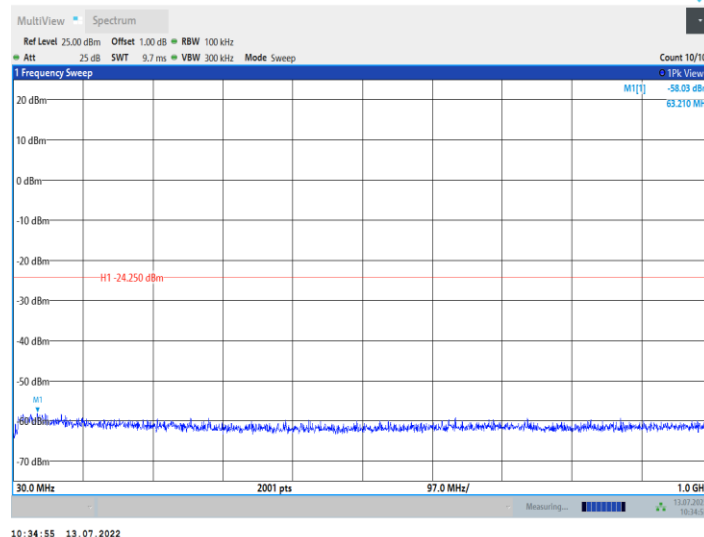
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BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



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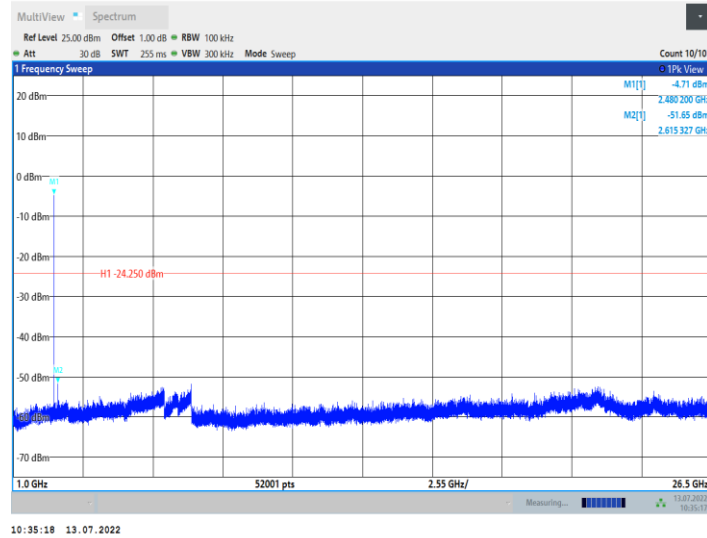
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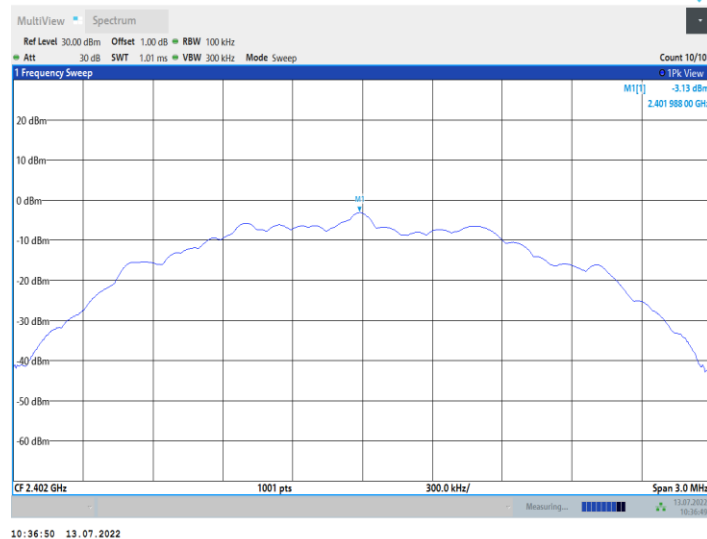
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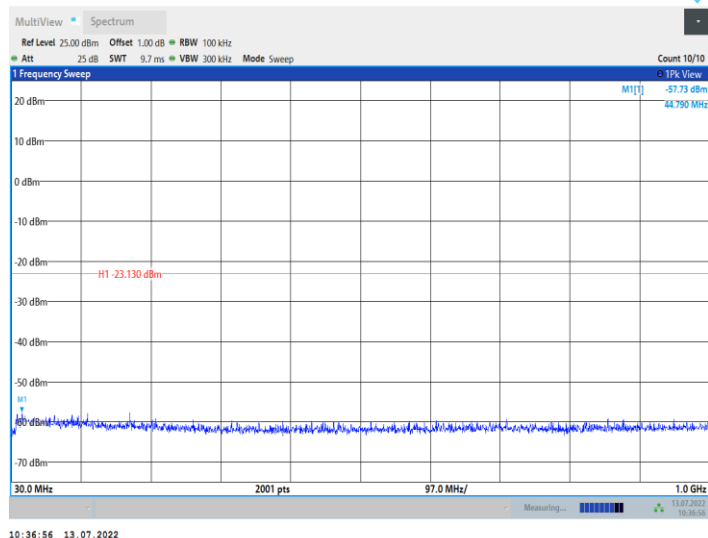
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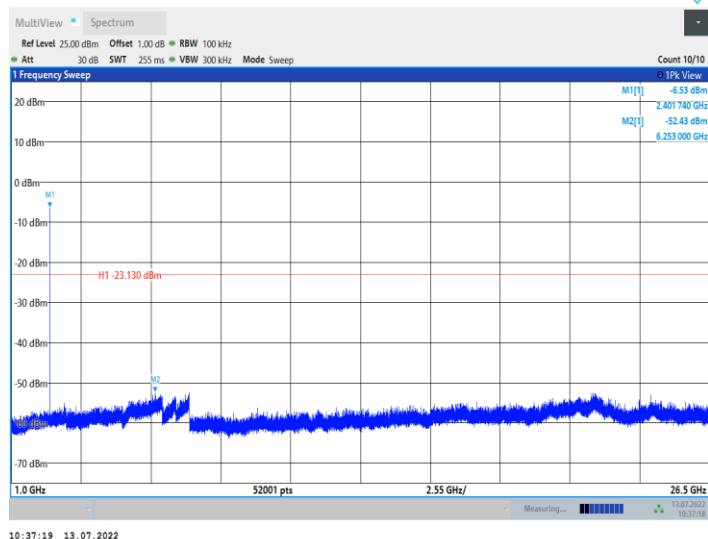
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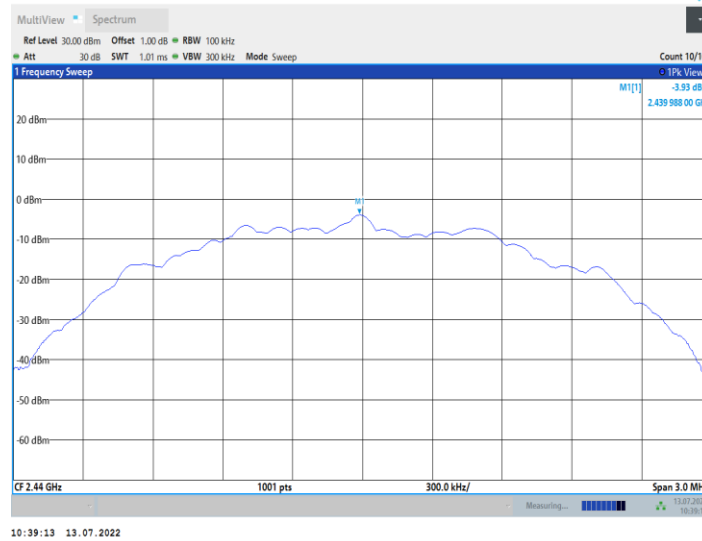
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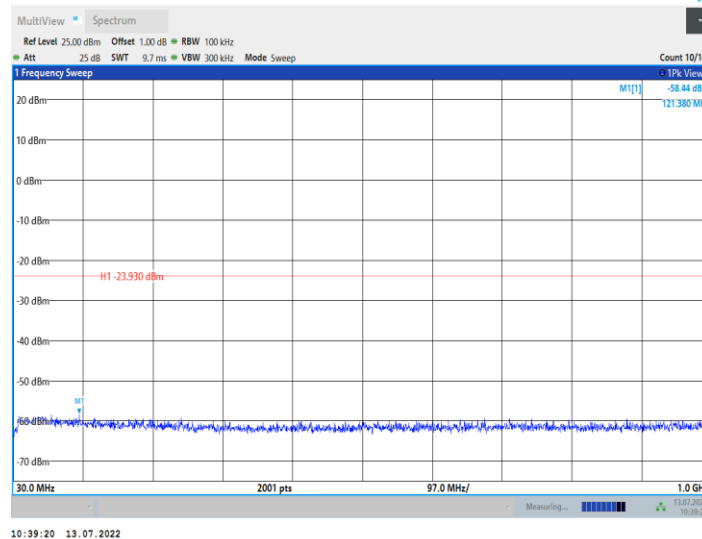
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BLE 2M Ant1 2440 0~Reference



BLE 2M Ant1 2440 30~1000



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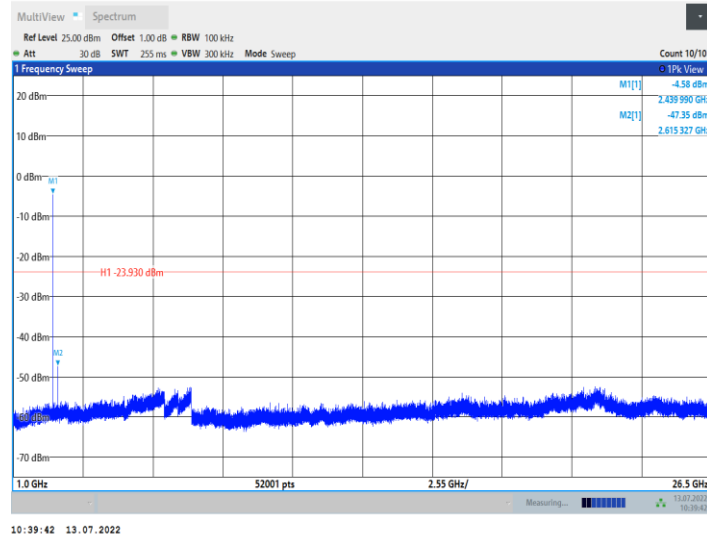
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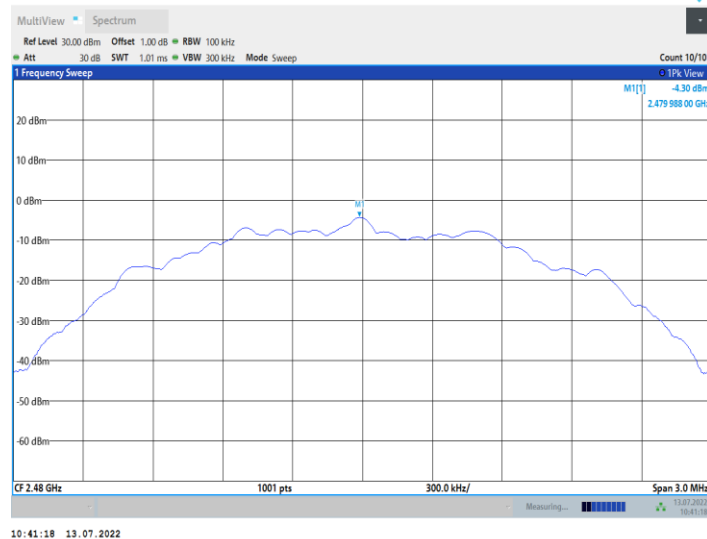
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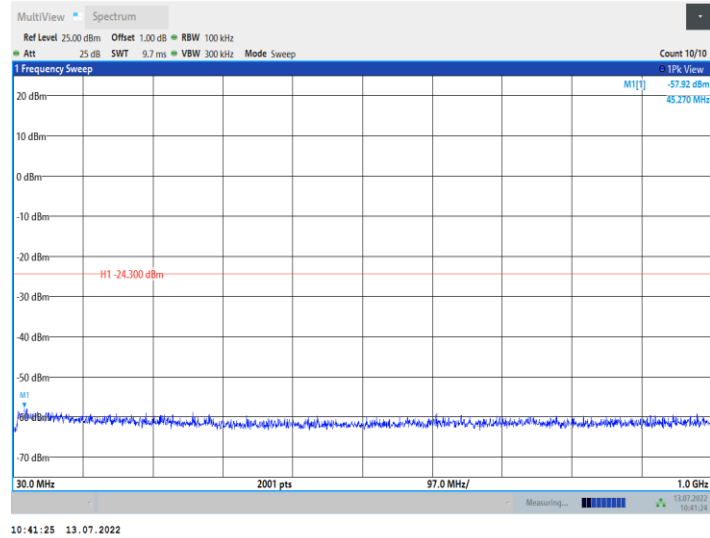
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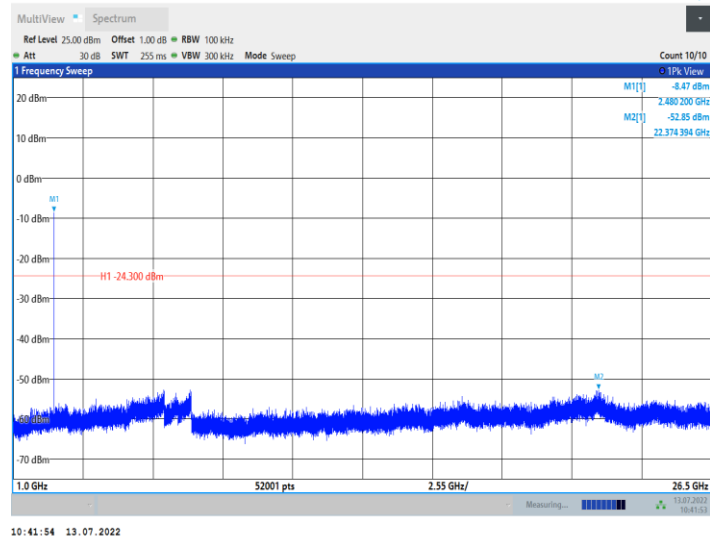
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
BLE_2M	Ant1	2402	0.20	0.63	31.75	4.98



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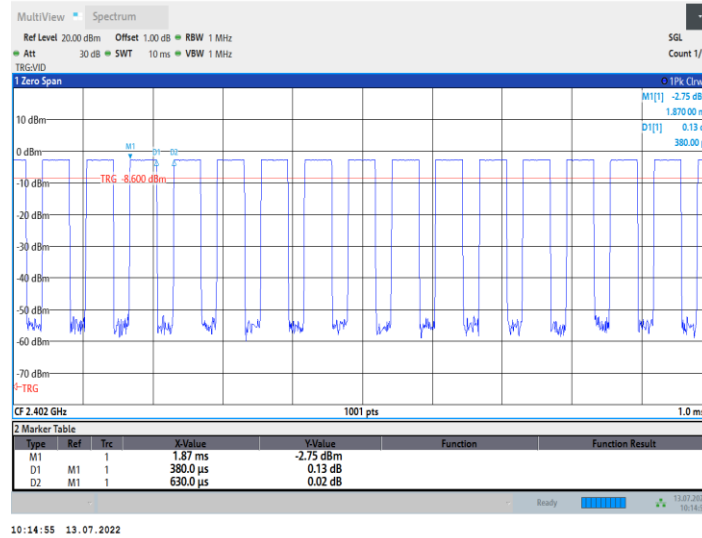
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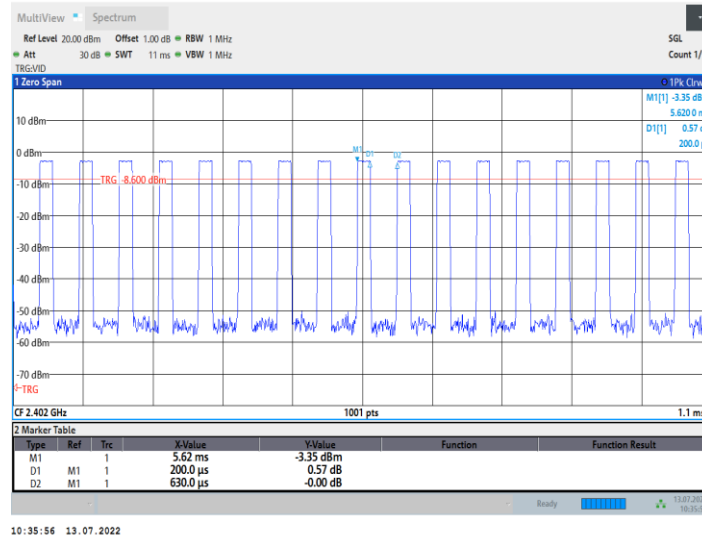
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Test Graphs

BLE_1M_Ant1_2402



BLE_2M_Ant1_2402



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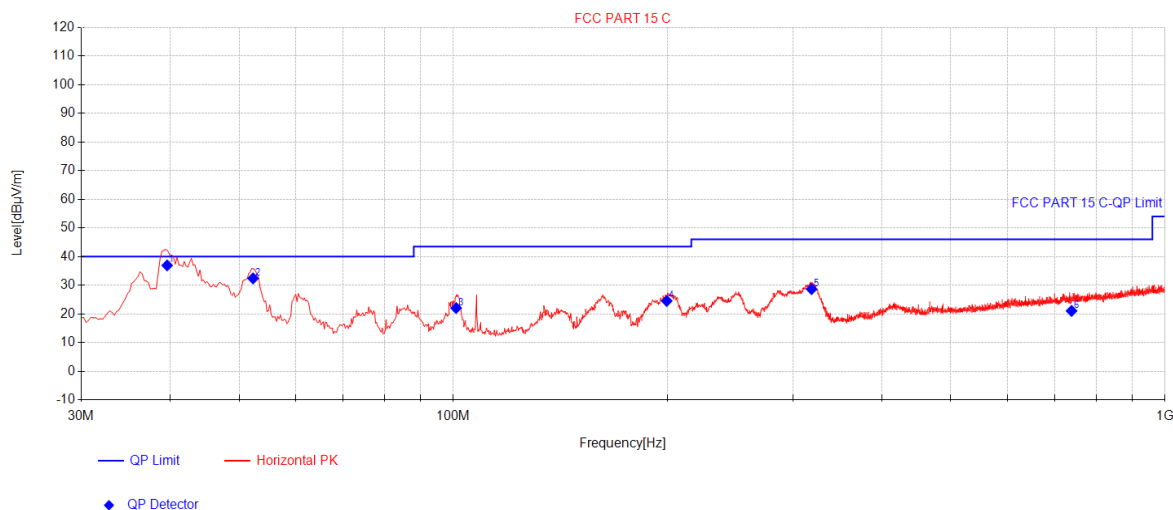
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Radiated Spurious Emissions

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	39.6265	53.06	-28.11	11.95	36.90	40.00	3.10	110	164	Horizontal
2	52.3222	47.01	-27.93	13.30	32.38	40.00	7.62	116	225	Horizontal
3	100.9106	38.63	-27.37	10.79	22.05	43.50	21.45	218	336	Horizontal
4	199.4766	40.87	-26.98	10.62	24.51	43.50	18.99	100	29.4	Horizontal
5	318.7169	41.38	-26.42	13.69	28.65	46.00	17.35	106	360	Horizontal
6	739.0176	24.76	-23.91	20.19	21.04	46.00	24.96	106	300	Horizontal



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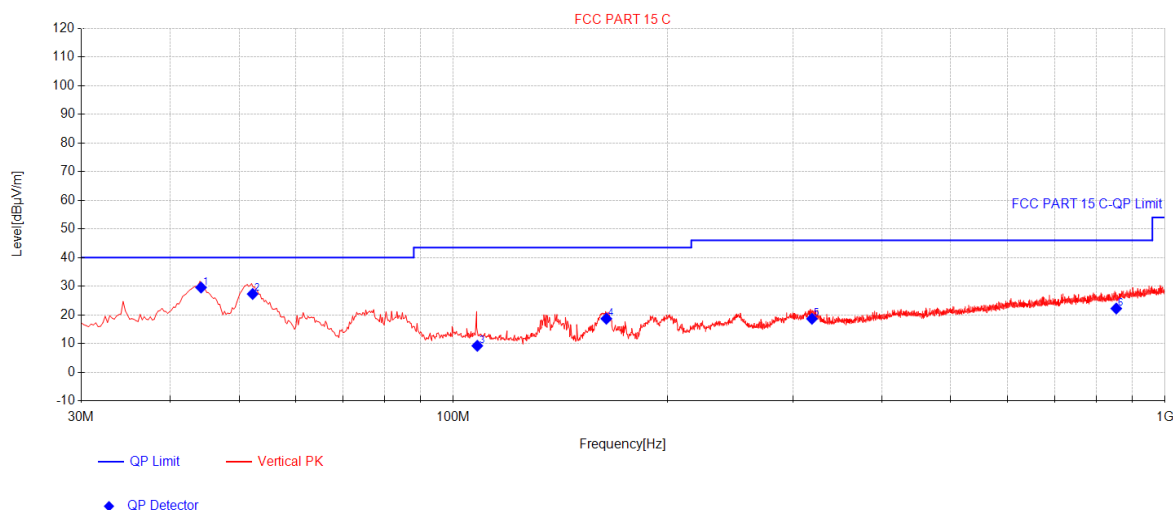
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Final Data List

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	44.2149	44.69	-28.05	12.91	29.55	40.00	10.45	106	251	Vertical
2	52.2499	41.93	-27.93	13.30	27.30	40.00	12.70	119	182	Vertical
3	108.0766	25.91	-27.41	10.72	9.22	43.50	34.28	362	86	Vertical
4	164.0616	37.49	-26.65	7.84	18.68	43.50	24.82	219	234	Vertical
5	319.0936	31.35	-26.41	13.69	18.63	46.00	27.37	214	246	Vertical
6	854.1198	24.62	-23.62	21.22	22.22	46.00	23.78	120	220	Vertical



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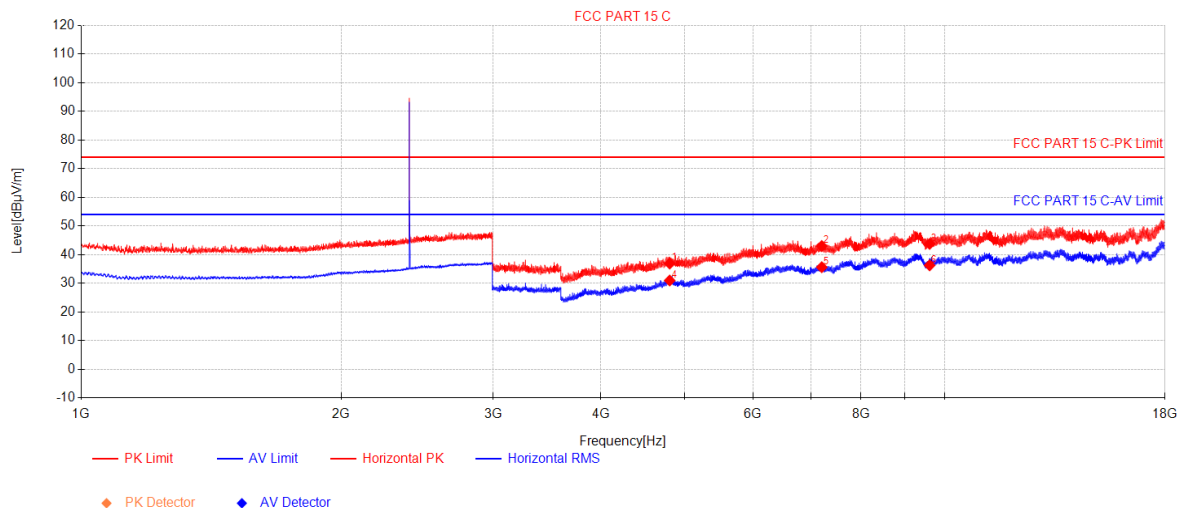
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Transmitter emission Above 1GHz

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	49.18	32.13	-44.46	36.85	74.00	37.15	126	327	Horizontal
2	7206	48.86	36.32	-42.23	42.95	74.00	31.05	265	349	Horizontal
3	9608	43.23	38.54	-38.05	43.72	74.00	30.28	241	327	Horizontal
4	4804	43.28	32.13	-44.46	30.95	54.00	23.05	175	360	Horizontal
5	7206	41.49	36.32	-42.23	35.58	54.00	18.42	284	51	Horizontal
6	9608	35.74	38.54	-38.05	36.23	54.00	17.77	122	130	Horizontal



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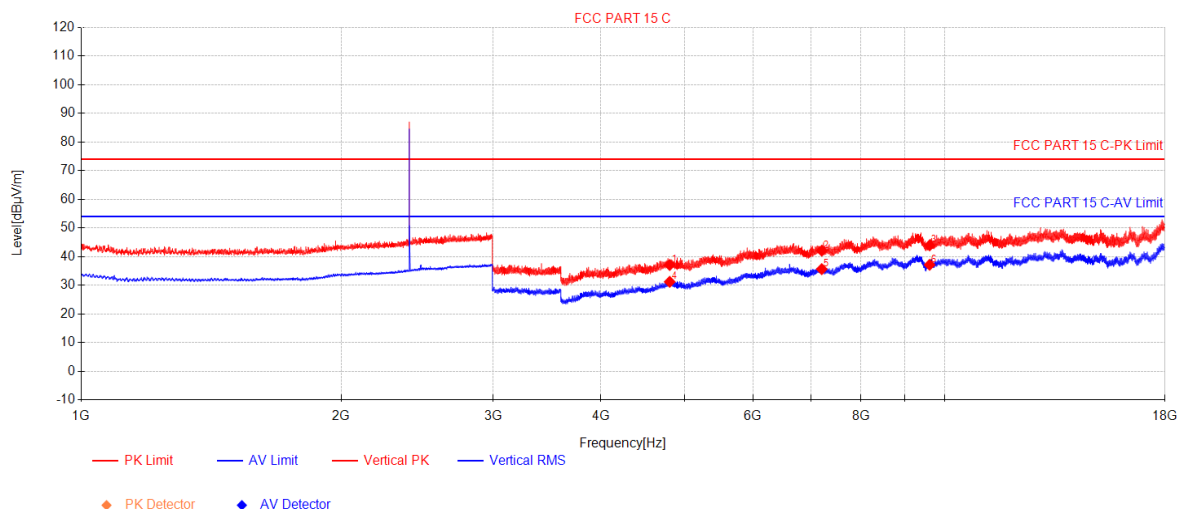
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BLE 1M_Channel 00



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	49.38	32.13	-44.46	37.05	74.00	36.95	185	129	Vertical
2	7206	47.95	36.32	-42.23	42.04	74.00	31.96	263	230	Vertical
3	9608	43.40	38.54	-38.05	43.89	74.00	30.11	265	334	Vertical
4	4804	43.51	32.13	-44.46	31.18	54.00	22.82	296	156	Vertical
5	7206	41.51	36.32	-42.23	35.60	54.00	18.40	241	359	Vertical
6	9608	36.64	38.54	-38.05	37.13	54.00	16.87	105	3	Vertical



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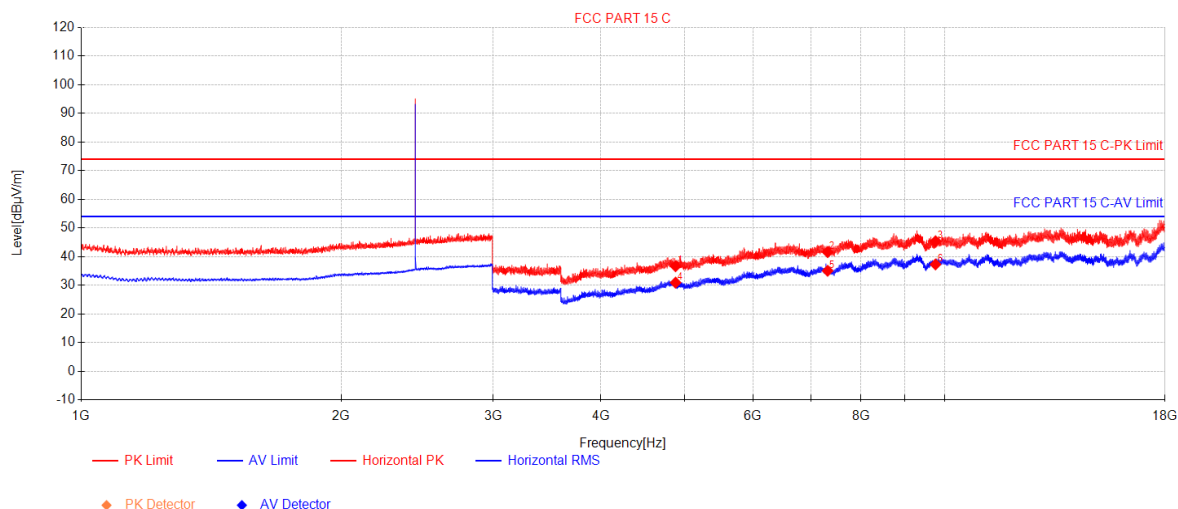
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BLE 1M_Channel 19



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	49.11	32.31	-44.79	36.63	74.00	37.37	185	3	Horizontal
2	7320	46.94	36.39	-41.80	41.53	74.00	32.47	263	180	Horizontal
3	9760	44.32	38.52	-37.51	45.34	74.00	28.66	265	352	Horizontal
4	4880	43.39	32.31	-44.79	30.91	54.00	23.09	298	131	Horizontal
5	7320	40.45	36.39	-41.80	35.04	54.00	18.96	176	180	Horizontal
6	9760	36.24	38.52	-37.51	37.26	54.00	16.74	177	354	Horizontal



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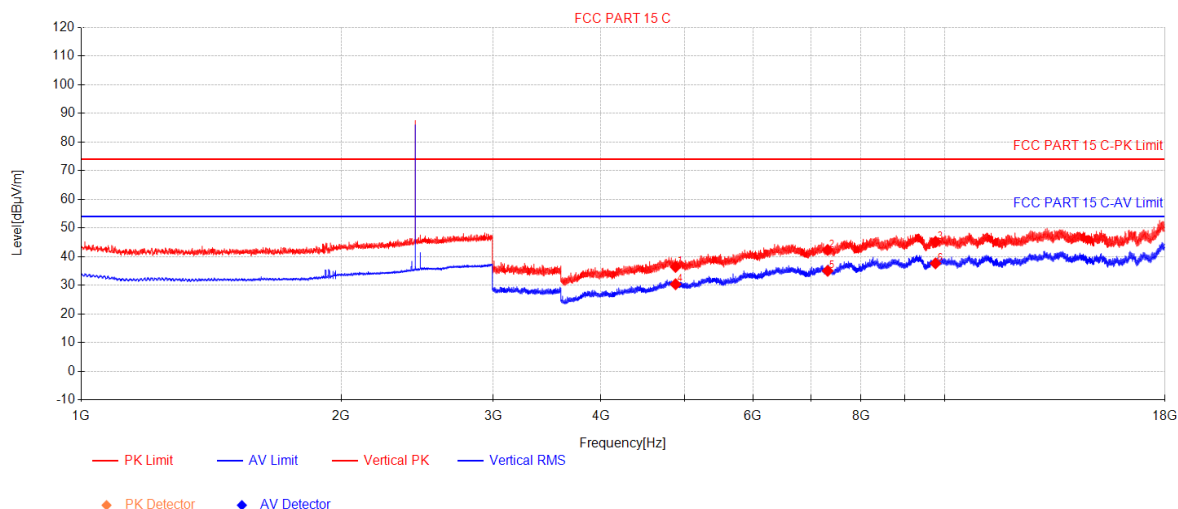
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BLE 1M_Channel 19



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	48.86	32.31	-44.79	36.38	74.00	37.62	182	28	Vertical
2	7320	47.70	36.39	-41.80	42.29	74.00	31.71	263	353	Vertical
3	9760	44.13	38.52	-37.51	45.15	74.00	28.85	268	3	Vertical
4	4880	42.82	32.31	-44.79	30.34	54.00	23.66	241	3	Vertical
5	7320	40.42	36.39	-41.80	35.01	54.00	18.99	178	278	Vertical
6	9760	36.61	38.52	-37.51	37.63	54.00	16.37	269	300	Vertical



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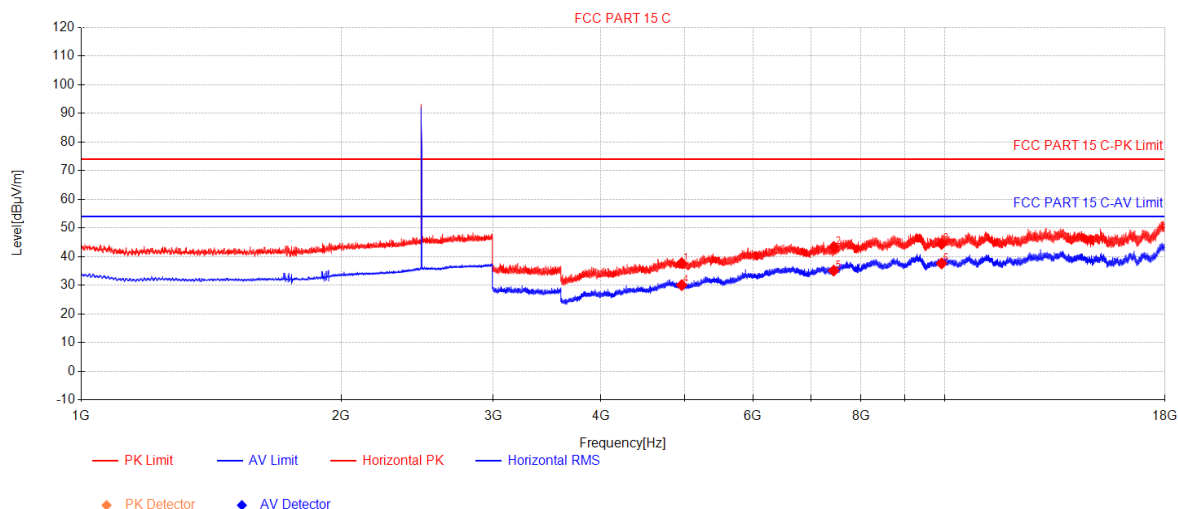
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	50.10	32.50	-44.92	37.69	74.00	36.31	185	284	Horizontal
2	7440	48.70	36.46	-41.83	43.34	74.00	30.66	263	181	Horizontal
3	9920	43.10	38.51	-37.22	44.39	74.00	29.61	265	206	Horizontal
4	4960	42.45	32.50	-44.92	30.04	54.00	23.96	241	54	Horizontal
5	7440	40.46	36.46	-41.83	35.10	54.00	18.90	175	256	Horizontal
6	9920	36.31	38.51	-37.22	37.60	54.00	16.40	296	360	Horizontal



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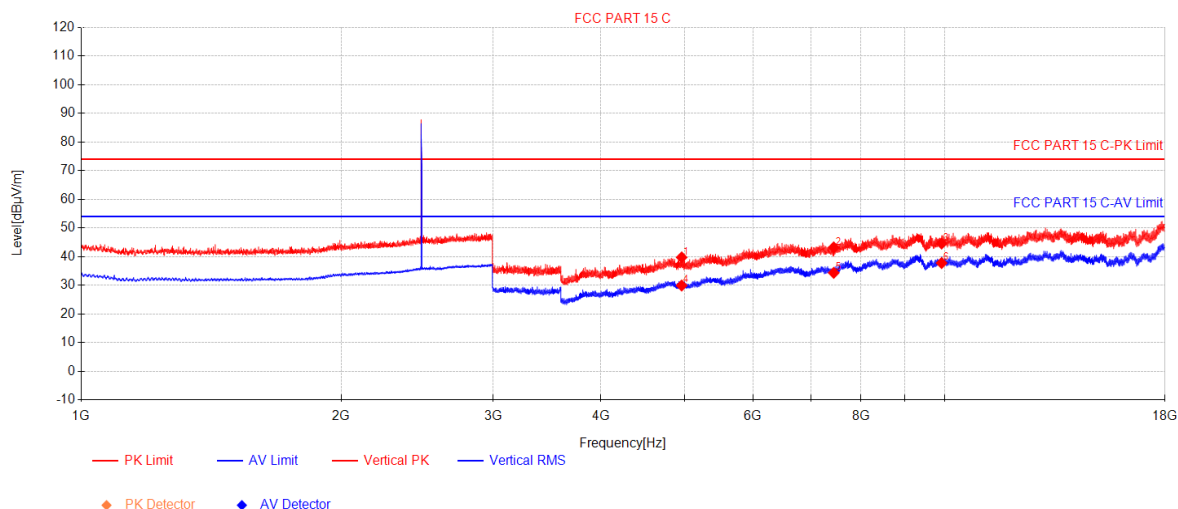
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BLE 1M_Channel 39



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	52.11	32.50	-44.92	39.70	74.00	34.30	142	242	Vertical
2	7440	48.57	36.46	-41.83	43.21	74.00	30.79	265	44	Vertical
3	9920	43.24	38.51	-37.22	44.53	74.00	29.47	284	179	Vertical
4	4960	42.31	32.50	-44.92	29.90	54.00	24.10	177	3	Vertical
5	7440	39.68	36.46	-41.83	34.32	54.00	19.68	152	353	Vertical
6	9920	36.46	38.51	-37.22	37.75	54.00	16.25	263	168	Vertical



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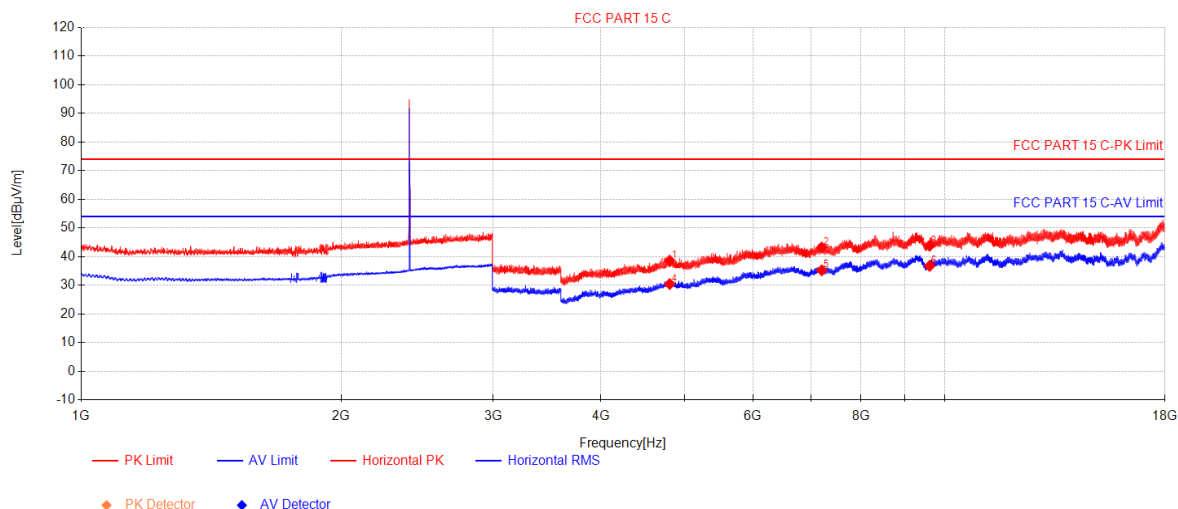
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BLE 2M_Channel 0



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	50.90	32.13	-44.46	38.57	74.00	35.43	163	180	Horizontal
2	7206	49.07	36.32	-42.23	43.16	74.00	30.84	254	307	Horizontal
3	9608	43.27	38.54	-38.05	43.76	74.00	30.24	175	24	Horizontal
4	4804	42.74	32.13	-44.46	30.41	54.00	23.59	263	0	Horizontal
5	7206	41.09	36.32	-42.23	35.18	54.00	18.82	265	157	Horizontal
6	9608	36.25	38.54	-38.05	36.74	54.00	17.26	284	1	Horizontal



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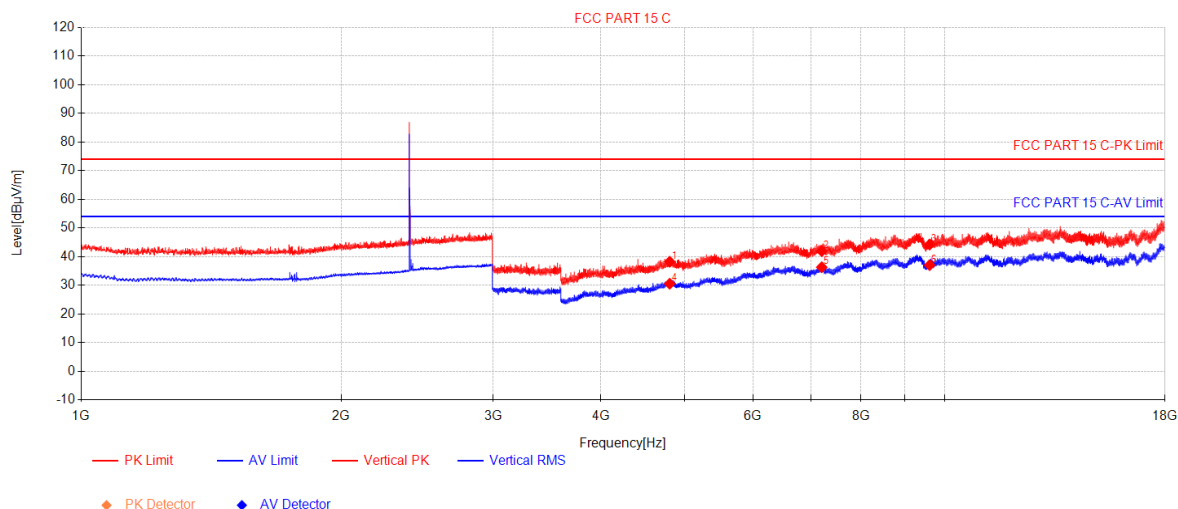
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.53	32.13	-44.46	38.20	74.00	35.80	142	5	Vertical
2	7206	47.80	36.32	-42.23	41.89	74.00	32.11	263	182	Vertical
3	9608	43.69	38.54	-38.05	44.18	74.00	29.82	265	332	Vertical
4	4804	42.84	32.13	-44.46	30.51	54.00	23.49	241	5	Vertical
5	7206	42.18	36.32	-42.23	36.27	54.00	17.73	175	357	Vertical
6	9608	36.52	38.54	-38.05	37.01	54.00	16.99	264	5	Vertical



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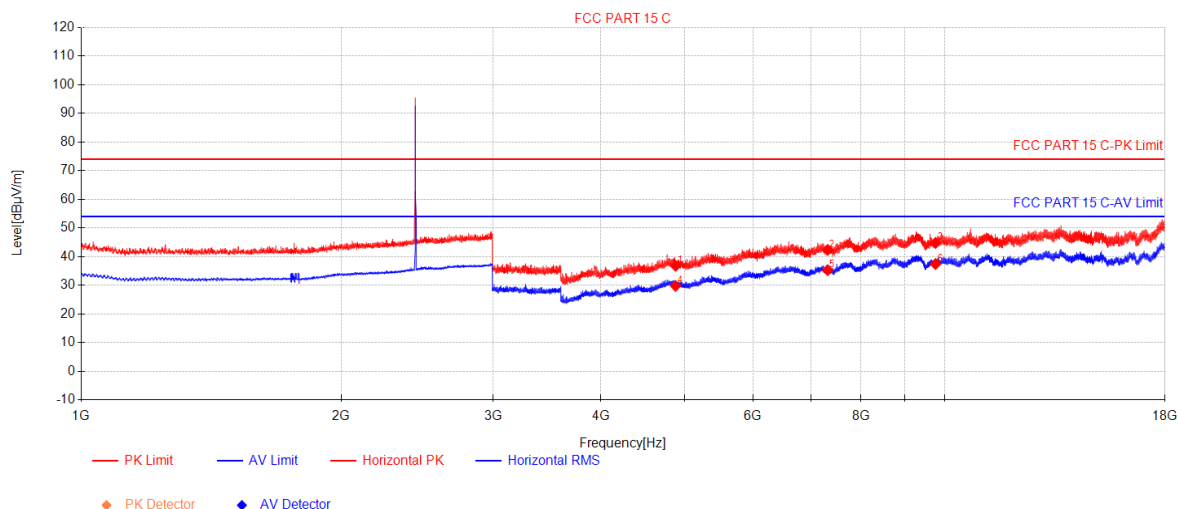
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.27	32.31	-44.79	36.79	74.00	37.21	241	77	Horizontal
2	7320	47.73	36.39	-41.80	42.32	74.00	31.68	175	255	Horizontal
3	9760	43.74	38.52	-37.51	44.76	74.00	29.24	288	153	Horizontal
4	4880	42.24	32.31	-44.79	29.76	54.00	24.24	142	0	Horizontal
5	7320	40.68	36.39	-41.80	35.27	54.00	18.73	286	307	Horizontal
6	9760	36.38	38.52	-37.51	37.40	54.00	16.60	265	280	Horizontal



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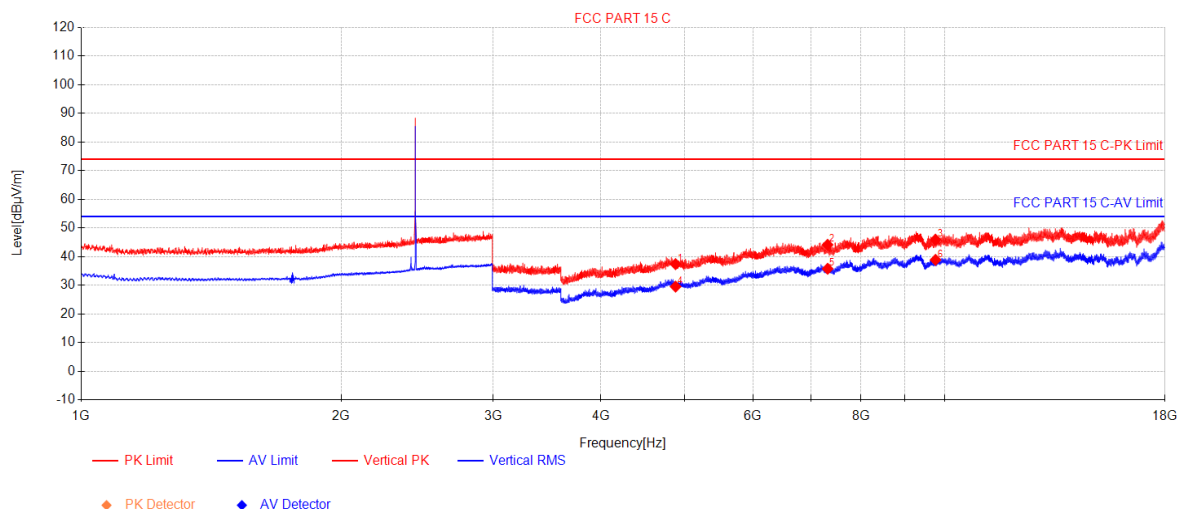
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BLE 2M_Channel 19



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	49.84	32.31	-44.79	37.36	74.00	36.64	288	280	Vertical
2	7320	49.51	36.39	-41.80	44.10	74.00	29.90	241	8	Vertical
3	9760	44.87	38.52	-37.51	45.89	74.00	28.11	177	0	Vertical
4	4880	42.00	32.31	-44.79	29.52	54.00	24.48	285	101	Vertical
5	7320	41.16	36.39	-41.80	35.75	54.00	18.25	265	333	Vertical
6	9760	37.83	38.52	-37.51	38.85	54.00	15.15	174	50	Vertical



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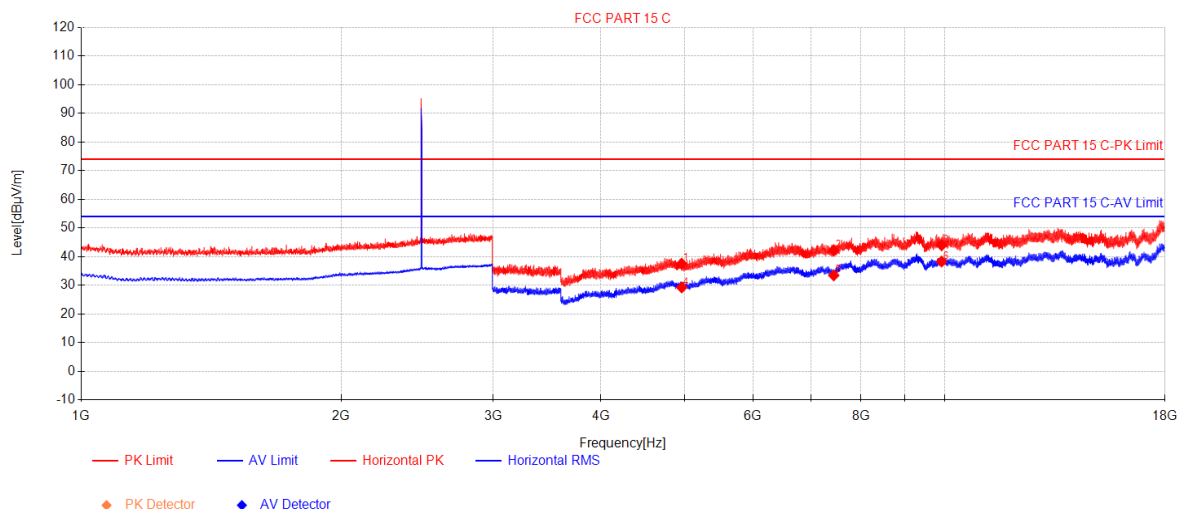
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.92	32.50	-44.92	37.51	74.00	36.49	142	357	Horizontal
2	7440	47.57	36.46	-41.83	42.21	74.00	31.79	275	0	Horizontal
3	9920	42.64	38.51	-37.22	43.93	74.00	30.07	263	128	Horizontal
4	4960	41.64	32.50	-44.92	29.23	54.00	24.77	268	52	Horizontal
5	7440	38.80	36.46	-41.83	33.44	54.00	20.56	241	182	Horizontal
6	9920	36.98	38.51	-37.22	38.27	54.00	15.73	177	102	Horizontal



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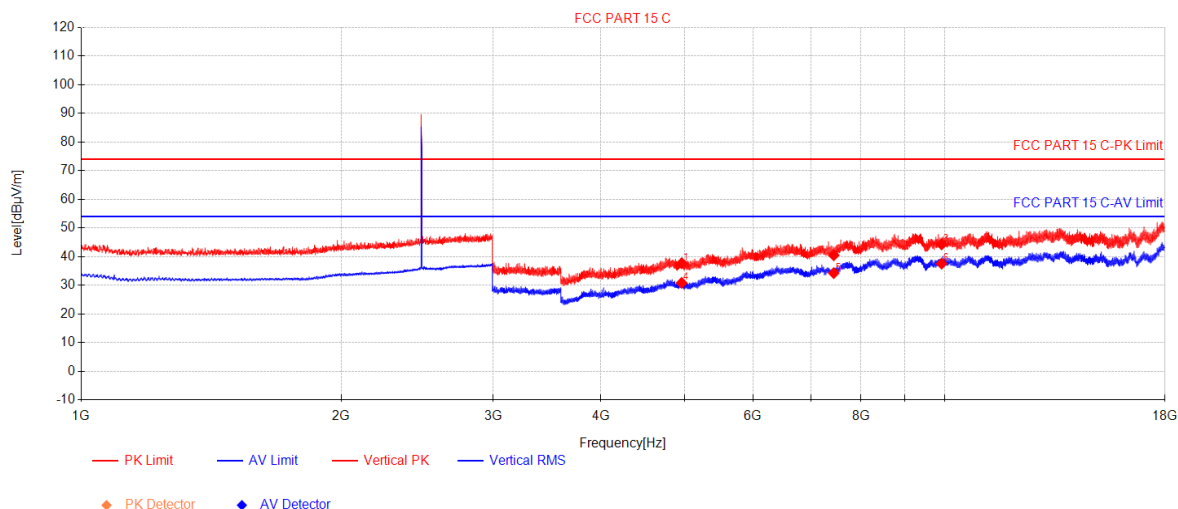
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	50.09	32.50	-44.92	37.68	74.00	36.32	175	57	Vertical
2	7440	45.83	36.46	-41.83	40.47	74.00	33.53	268	1	Vertical
3	9920	42.96	38.51	-37.22	44.25	74.00	29.75	241	256	Vertical
4	4960	43.23	32.50	-44.92	30.82	54.00	23.18	175	8	Vertical
5	7440	39.58	36.46	-41.83	34.22	54.00	19.78	288	108	Vertical
6	9920	36.25	38.51	-37.22	37.54	54.00	16.46	284	206	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBμV/m) - Level(dBμV/m)



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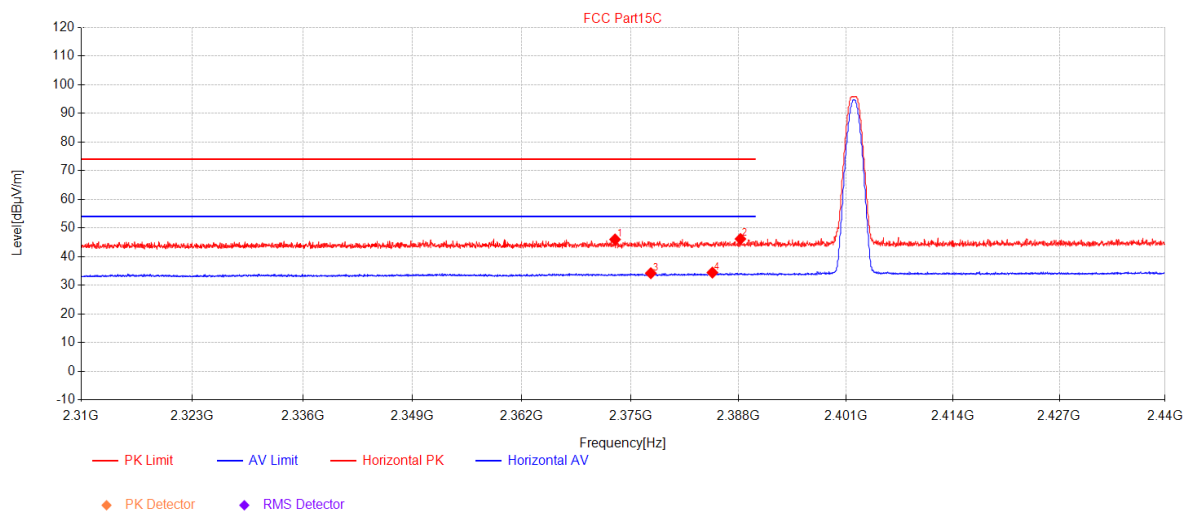
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Restricted bands around fundamental frequency

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	2373.1475	42.77	27.65	-24.46	45.96	74.00	28.04	166	45	Horizontal
2	2388.2275	42.89	27.68	-24.43	46.14	74.00	27.86	166	45	Horizontal
3	2377.4375	30.99	27.65	-24.45	34.20	54.00	19.80	166	45	Horizontal
4	2384.8475	31.17	27.67	-24.43	34.41	54.00	19.59	166	45	Horizontal



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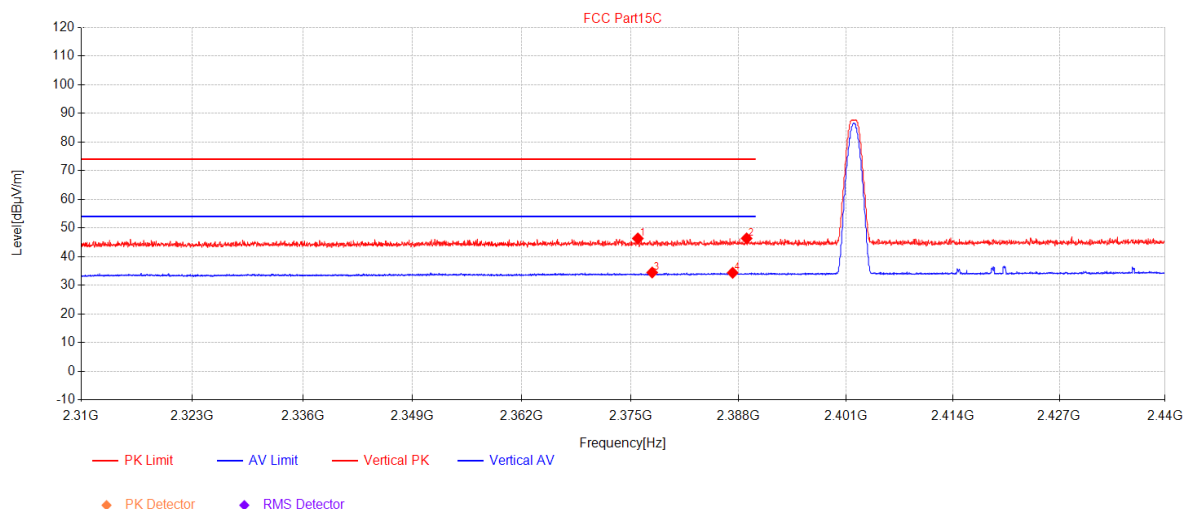
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BLE 1M_Channel 00



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	2375.8775	43.11	27.65	-24.45	46.31	74.00	27.69	332	126	Vertical
2	2388.975	43.09	27.68	-24.42	46.34	74.00	27.66	332	126	Vertical
3	2377.6	31.22	27.66	-24.45	34.43	54.00	19.57	332	126	Vertical
4	2387.285	31.09	27.67	-24.43	34.34	54.00	19.66	332	126	Vertical



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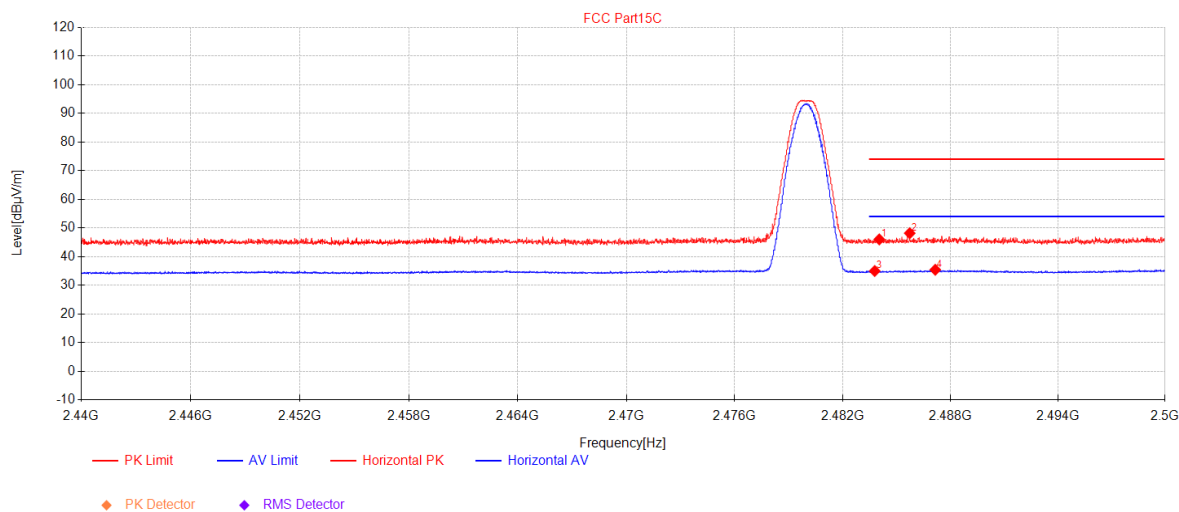
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.04	42.07	27.87	-23.95	45.98	74.00	28.02	142	57	Horizontal
2	2485.735	44.21	27.87	-23.95	48.14	74.00	25.86	142	57	Horizontal
3	2483.785	31.05	27.87	-23.96	34.96	54.00	19.04	142	57	Horizontal
4	2487.16	31.45	27.87	-23.94	35.39	54.00	18.61	142	57	Horizontal



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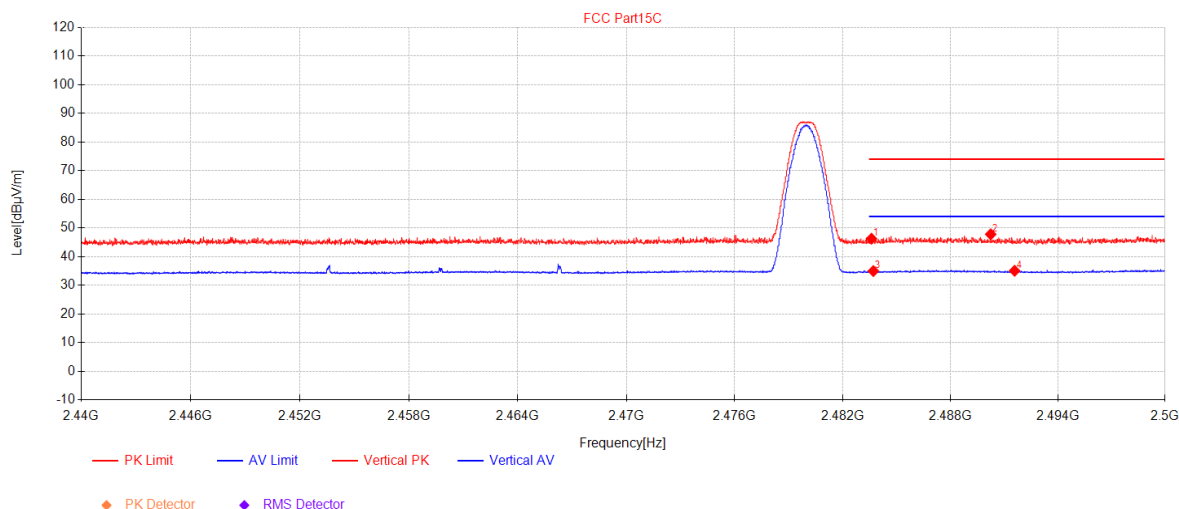
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Data List										
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1	2483.605	42.32	27.87	-23.96	46.23	74.00	27.77	362	142	Vertical
2	2490.25	43.81	27.88	-23.92	47.77	74.00	26.23	362	142	Vertical
3	2483.71	31.03	27.87	-23.96	34.94	54.00	19.06	362	142	Vertical
4	2491.585	31.07	27.88	-23.91	35.04	54.00	18.96	362	142	Vertical



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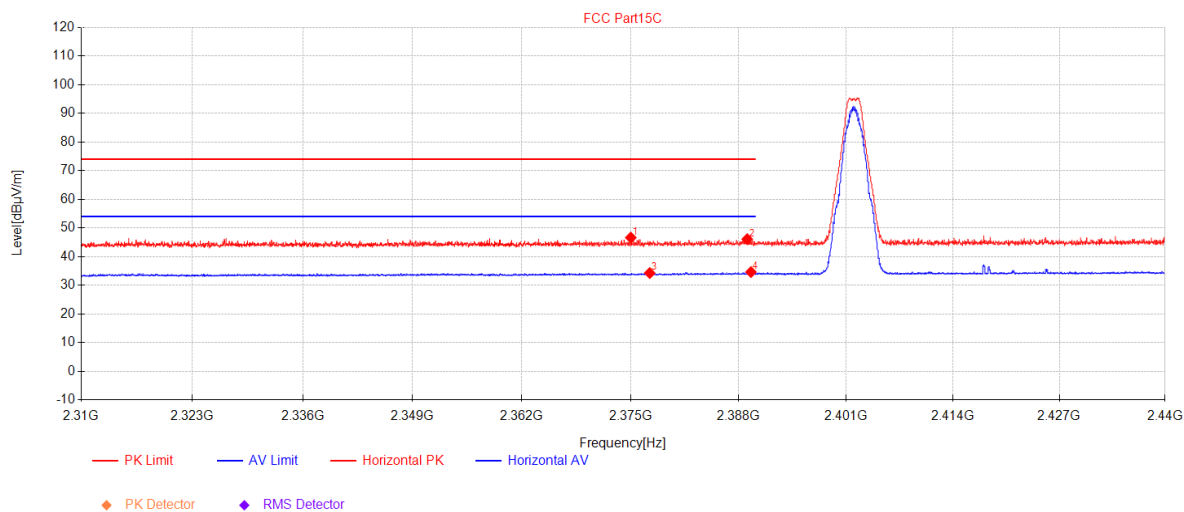
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Data List										
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1	2375.0325	43.40	27.65	-24.45	46.60	74.00	27.40	126	49	Horizontal
2	2389.04	42.83	27.68	-24.42	46.08	74.00	27.92	126	49	Horizontal
3	2377.3075	31.04	27.65	-24.45	34.24	54.00	19.76	126	49	Horizontal
4	2389.495	31.33	27.68	-24.42	34.59	54.00	19.41	126	49	Horizontal



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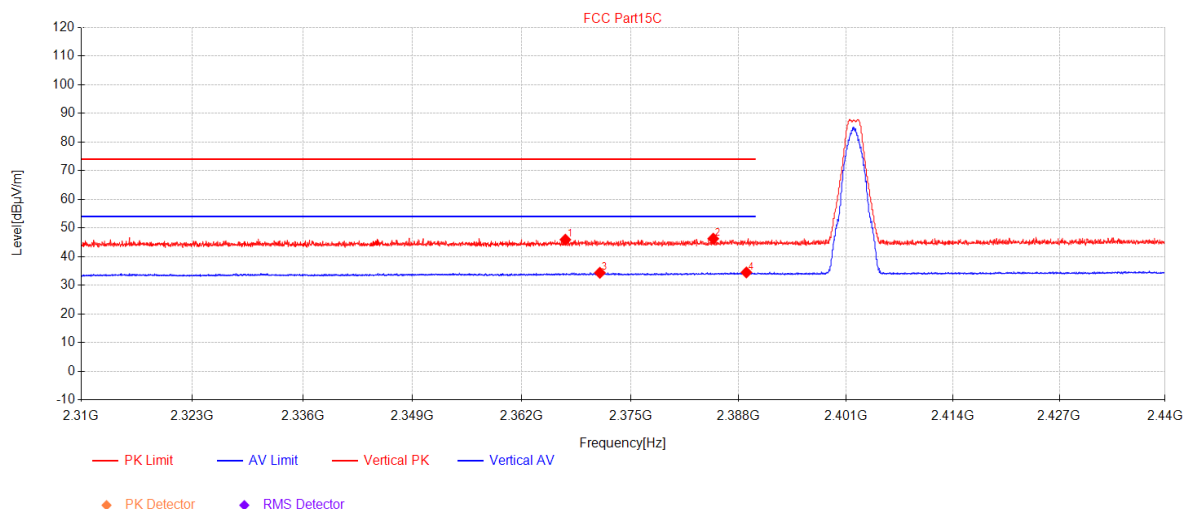
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.2	42.72	27.63	-24.47	45.88	74.00	28.12	321	145	Vertical
2	2384.945	43.00	27.67	-24.43	46.24	74.00	27.76	321	145	Vertical
3	2371.3275	31.16	27.64	-24.46	34.34	54.00	19.66	321	145	Vertical
4	2388.9425	31.21	27.68	-24.42	34.46	54.00	19.54	321	145	Vertical



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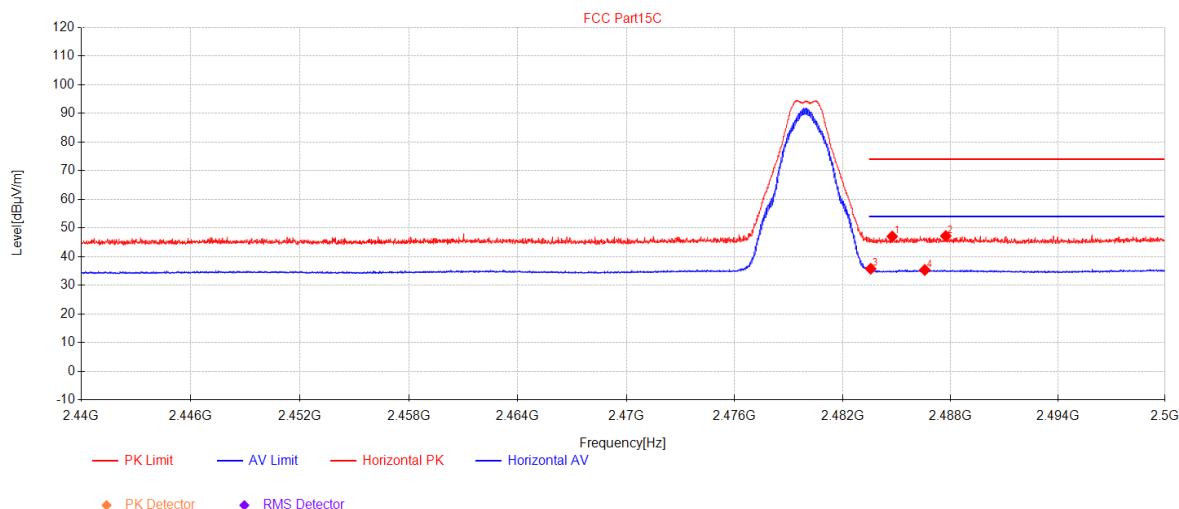
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BLE 2M_Channel 39



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	2484.76	43.10	27.87	-23.95	47.02	74.00	26.98	144	51	Horizontal
2	2487.745	43.24	27.88	-23.93	47.18	74.00	26.82	144	51	Horizontal
3	2483.56	31.82	27.87	-23.96	35.73	54.00	18.27	144	51	Horizontal
4	2486.575	31.38	27.87	-23.94	35.31	54.00	18.69	144	51	Horizontal



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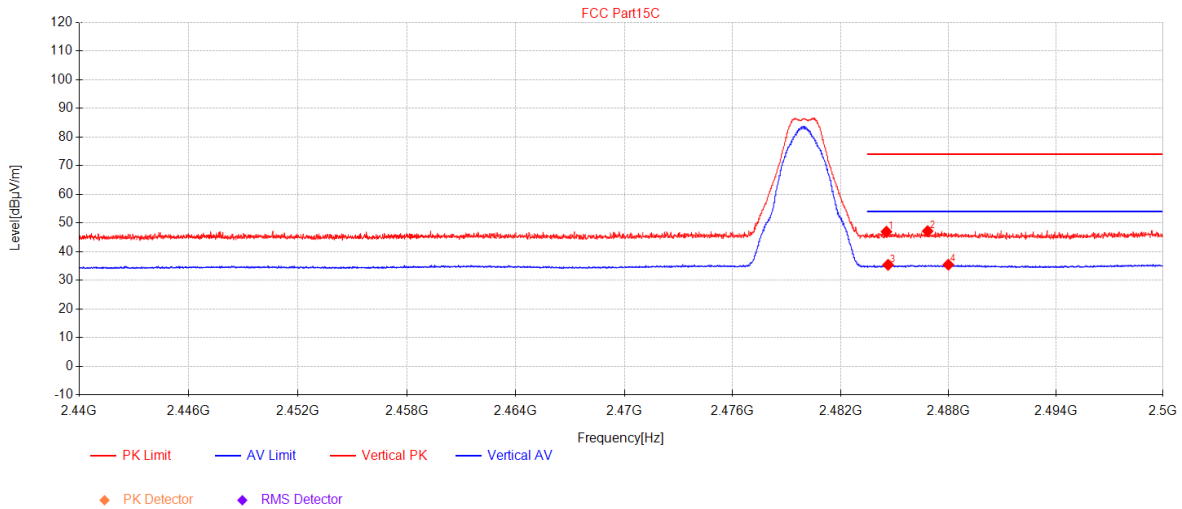
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BLE 2M_Channel 39



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	2484.55	43.01	27.87	-23.95	46.93	74.00	27.07	332	161	Vertical
2	2486.845	43.18	27.87	-23.94	47.11	74.00	26.89	332	161	Vertical
3	2484.64	31.45	27.87	-23.95	35.37	54.00	18.63	332	161	Vertical
4	2488	31.47	27.88	-23.93	35.41	54.00	18.59	332	161	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBμV/m) - Level(dBμV/m)

The End



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