

Report No.: SEWM2206000064RG03

Rev.: 01

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TEST REPORT

Application No.: SEWM2206000064RG
Applicant: COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE
TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE
TSIMSHATSUI KL, HONG KONG, CHINA
EUT Description: Smart Phone
Model No.: SL201D
Trade Mark: bounce
FCC ID: 2A28USL201D
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/06/06
Date of Test: 2022/06/10 to 2022/07/14
Date of Issue: 2022/07/20

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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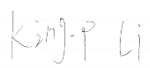
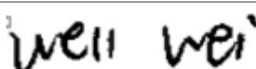
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/07/20		Original

Prepared By	
	(King-p Li) / Test Engineer
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

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, 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, Lves Cheng

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:	Smart Phone	
Model No.:	SL201D	
Trade Mark:	bounce	
Hardware Version:	1.0	
Software Version:	SL201DD10005	
IMEI:	RF Conducted	355581700003452 355581700003401
	RSE & AC power line	355581700005390
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.	
Bluetooth version:	Bluetooth V5.2	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type*:	☒ Provided by client	
	1M PHY	2M PHY
Antenna Type:	☐ External, ☒ Integrated	
Antenna Gain*:	☒ Provided by client	
	0.6dBi(ANT3)	
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.		
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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	3.8
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 0.6dBi(ANT3). (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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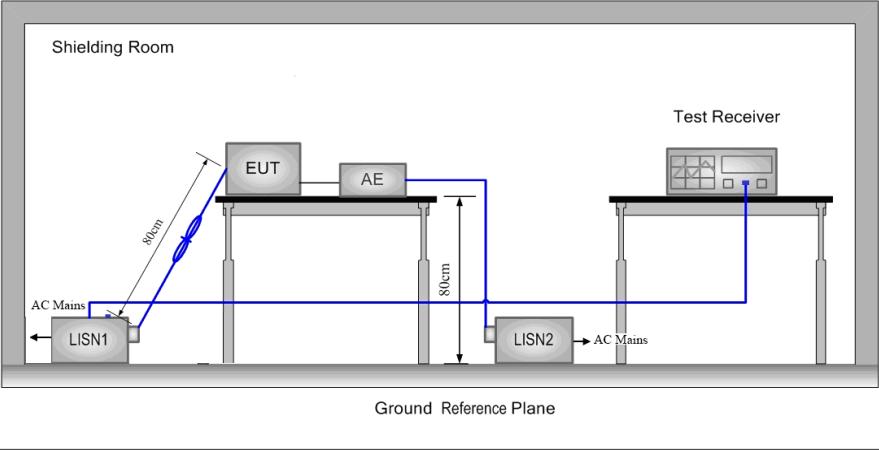
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Test Setup:	
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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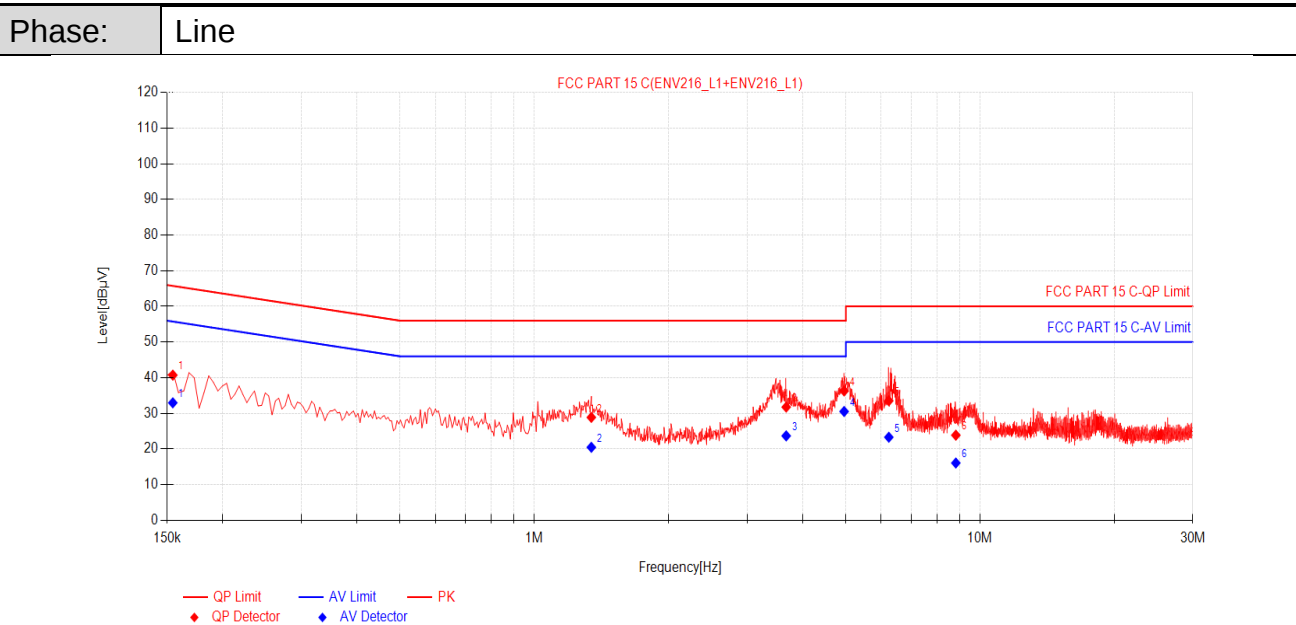
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Measurement Data

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.



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	30.09	40.73	65.75	25.02	22.32	32.96	55.75	22.79	PASS
2	1.3425	10.78	18.09	28.87	56.00	27.13	9.70	20.48	46.00	25.52	PASS
3	3.6735	10.71	21.04	31.75	56.00	24.25	12.97	23.68	46.00	22.32	PASS
4	4.9560	10.64	25.64	36.28	56.00	19.72	19.89	30.53	46.00	15.47	PASS
5	6.2430	10.69	22.84	33.53	60.00	26.47	12.62	23.31	50.00	26.69	PASS
6	8.8260	10.66	13.21	23.87	60.00	36.13	5.42	16.08	50.00	33.92	PASS

Remark:

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



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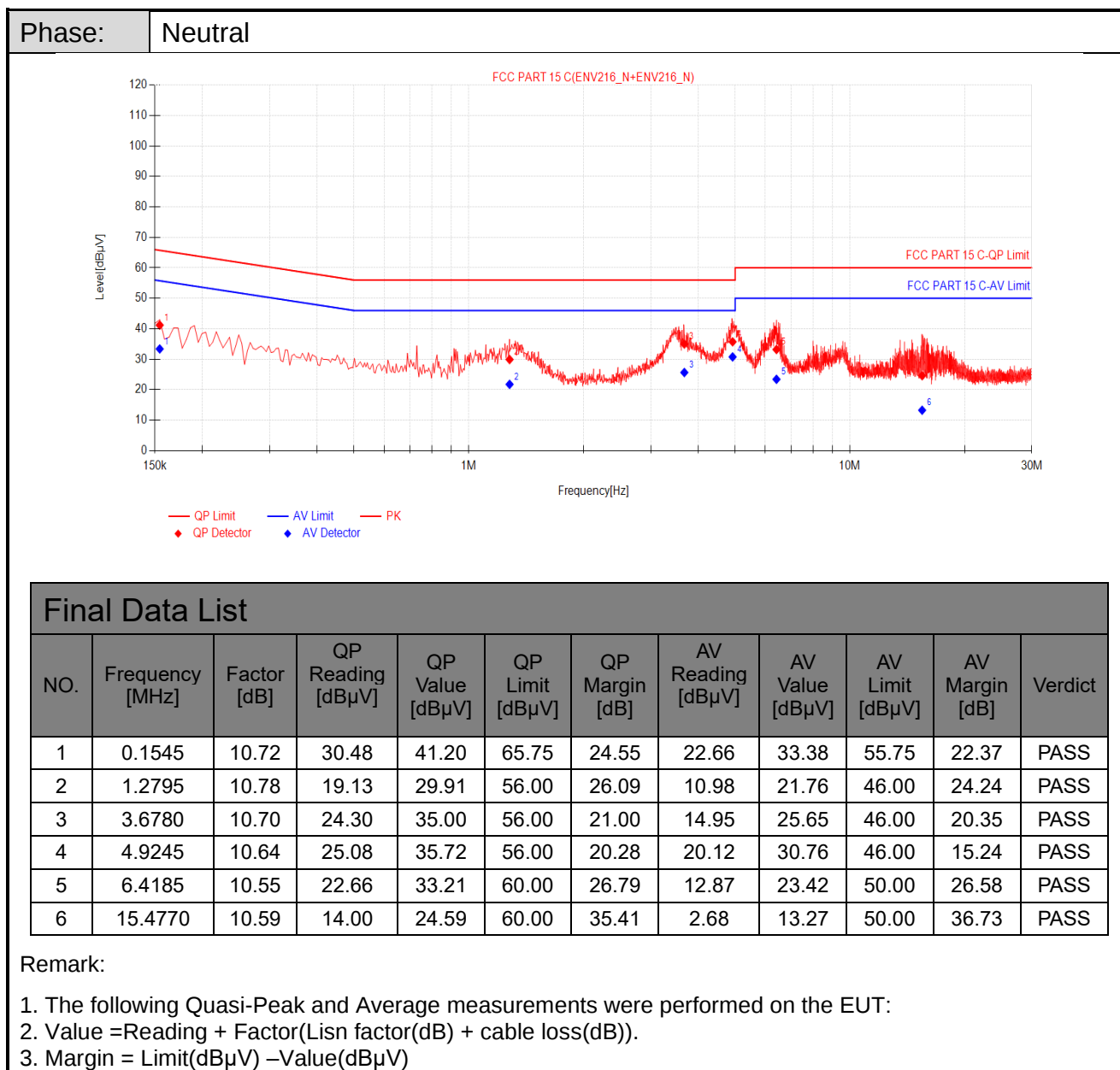
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4.3 Duty Cycle

The detailed test data see: **Appendix**



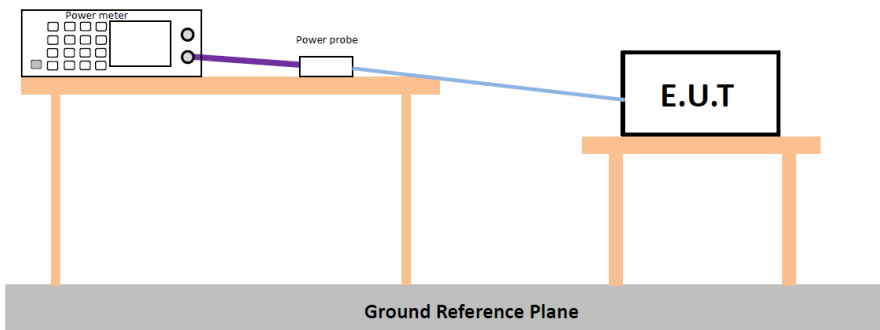
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 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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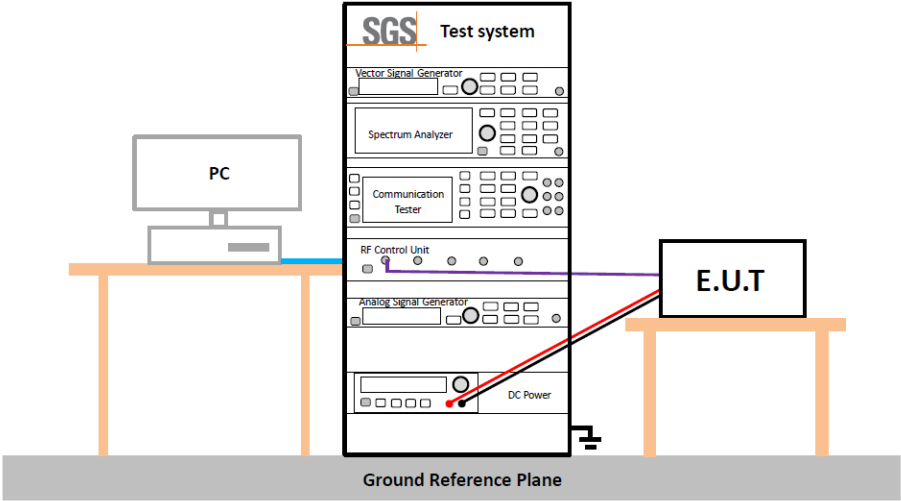
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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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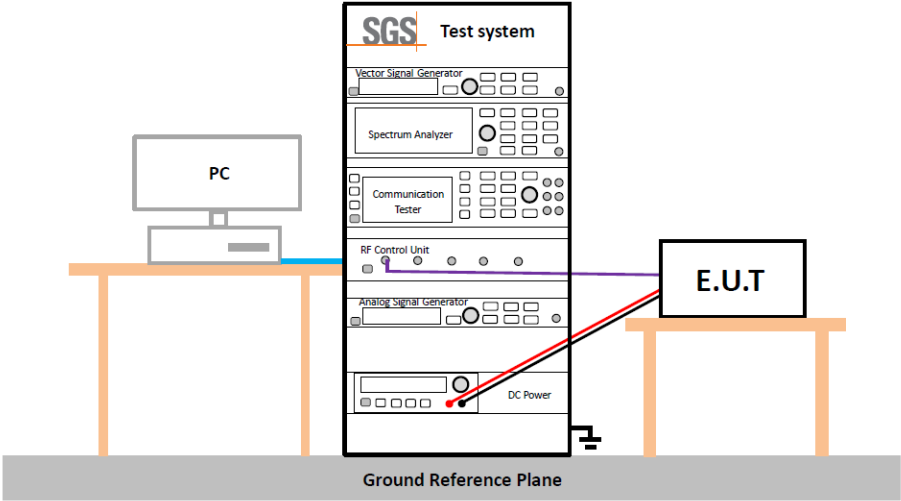
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4.6 Power Spectral Density

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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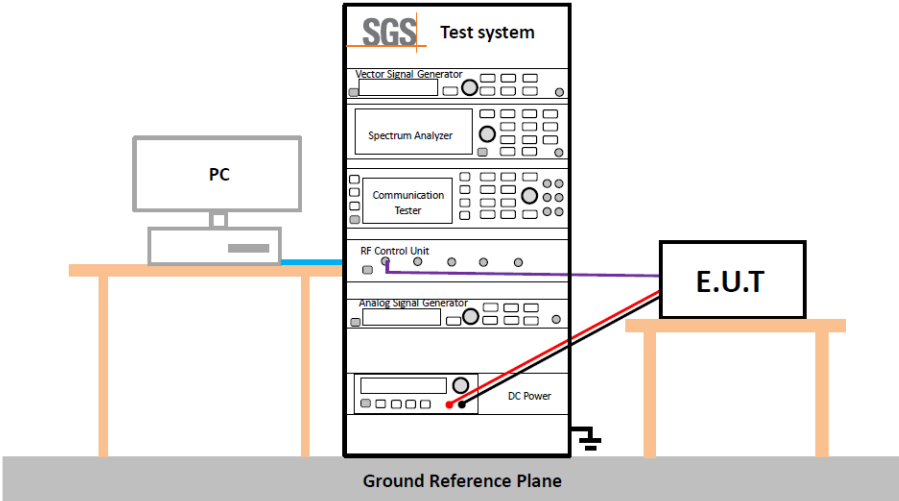
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4.7 Band-edge for RF Conducted Emissions

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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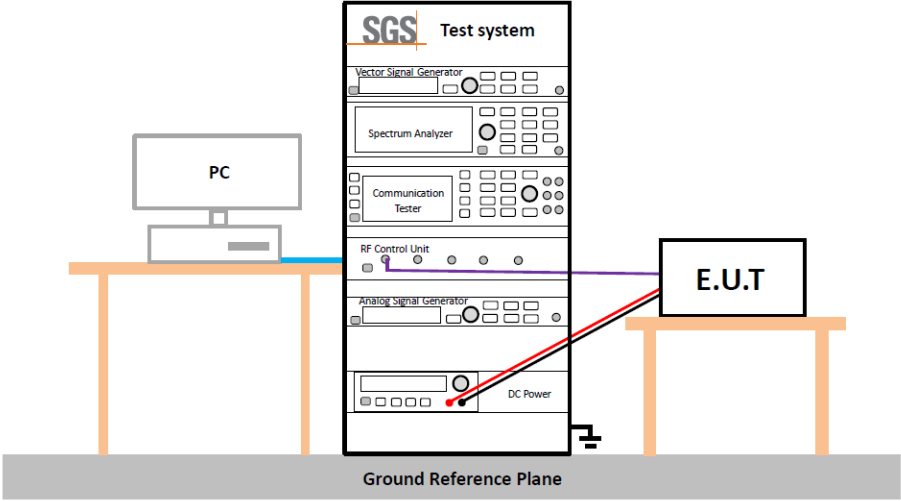
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4.8 RF Conducted Spurious Emissions

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:

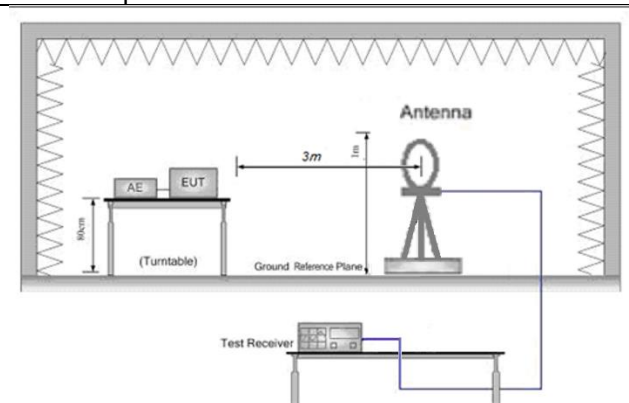


Figure 1. Below 30MHz

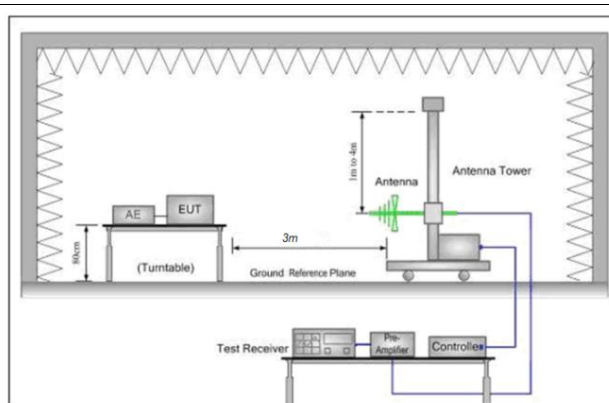


Figure 2. 30MHz to 1GHz

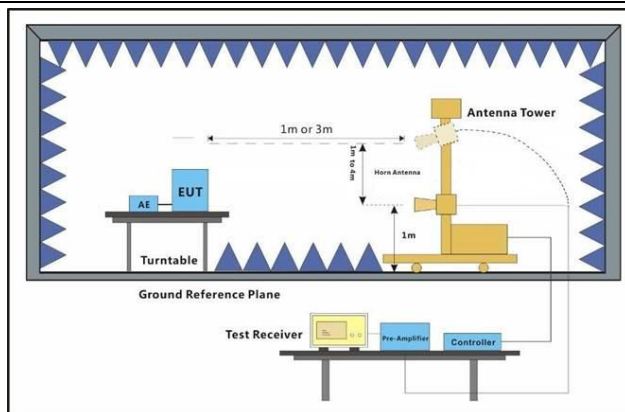


Figure 3. Above 1 GHz

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 Z axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete. - The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported - The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. - At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54 \text{ dB}$.
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:

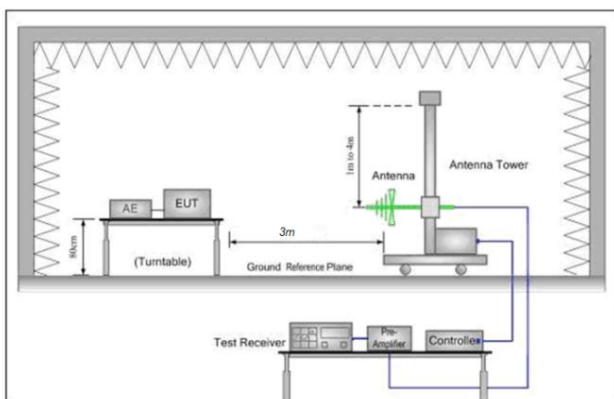


Figure 1. 30MHz to 1GHz

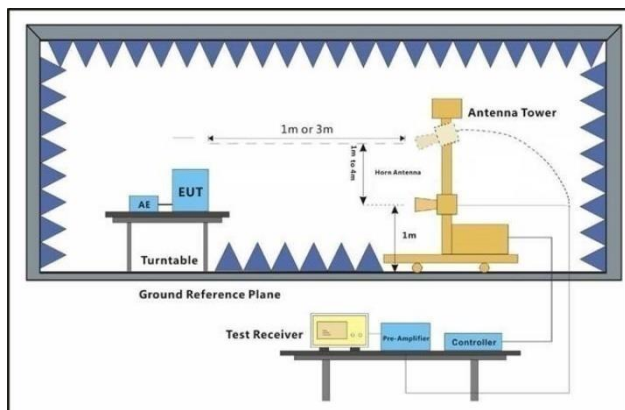


Figure 2. Above 1 GHz

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 Z 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	$\pm 1.0\%$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\%$
7	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -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
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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	Ant3	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	Ant3	2402	1.18	2401.40	2402.59	≥ 0.5	PASS
		2440	1.18	2439.40	2440.59	≥ 0.5	PASS
		2480	1.18	2479.40	2480.58	≥ 0.5	PASS



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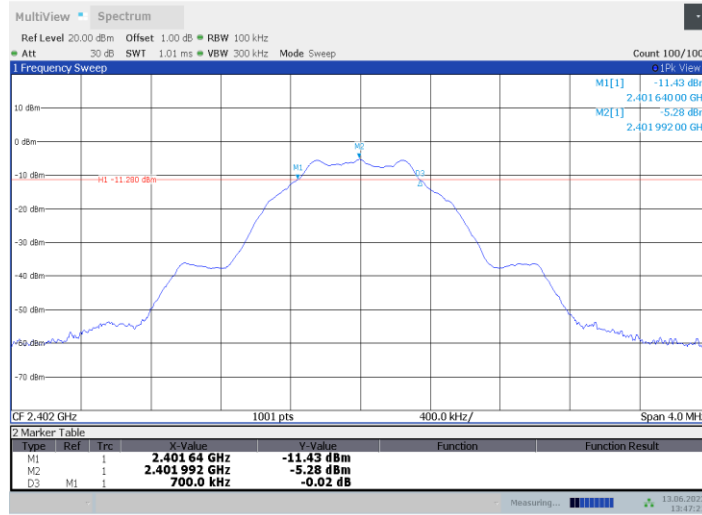
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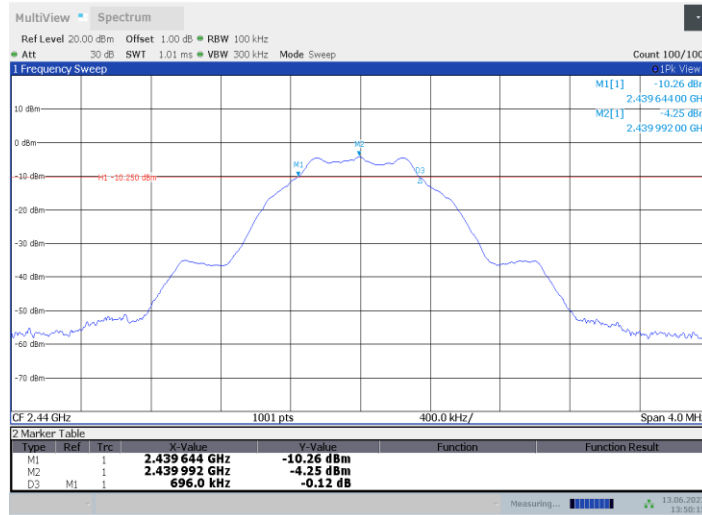
Test Graphs

BLE_1M_Ant3_2402



13:47:22 13.06.2022

BLE_1M_Ant3_2440



13:50:16 13.06.2022



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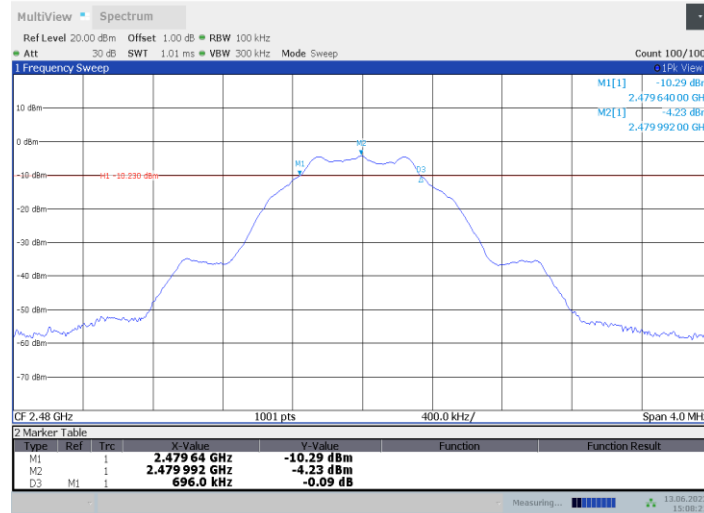
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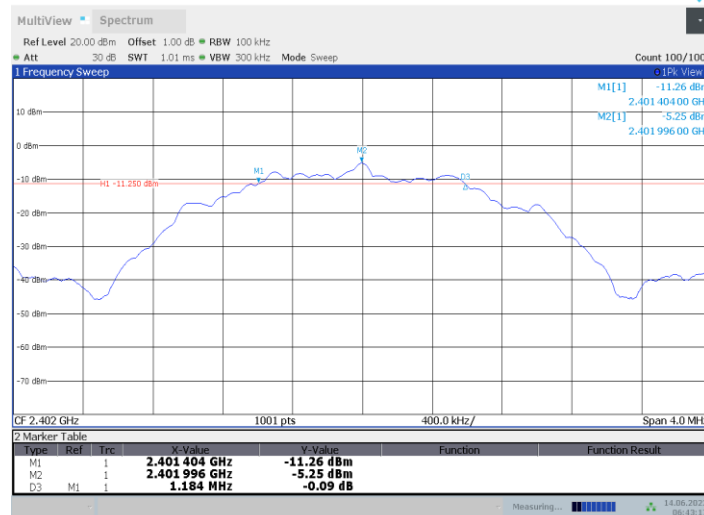
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BLE_1M_Ant3_2480



15:08:21 13.06.2022

BLE_2M_Ant3_2402



06:43:18 14.06.2022



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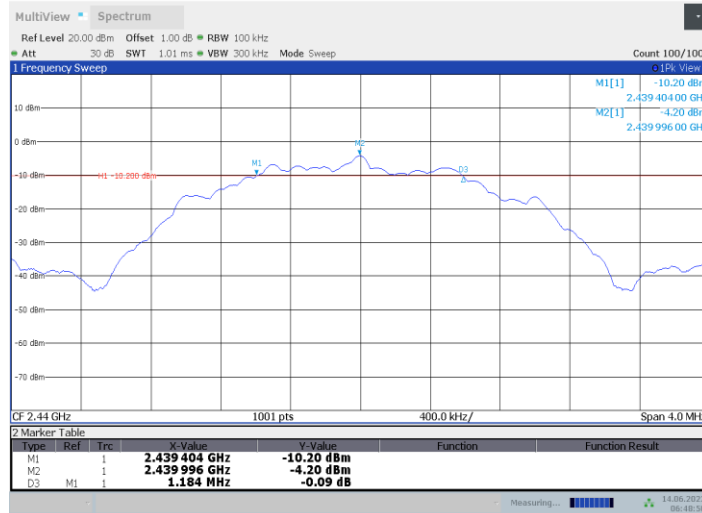
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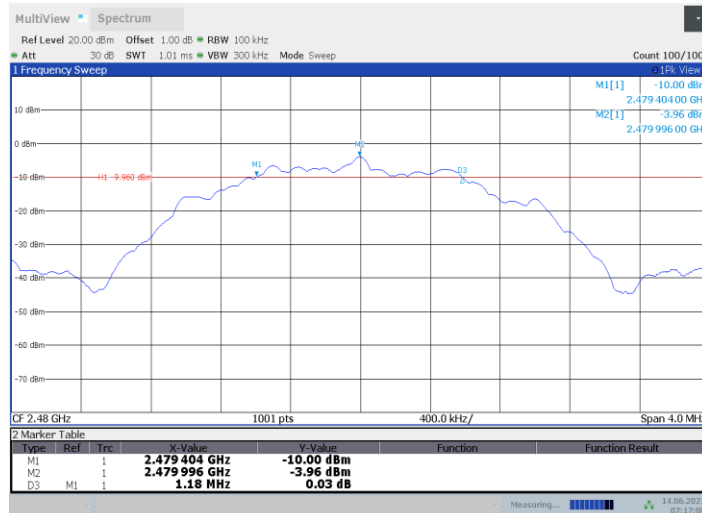
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BLE_2M_Ant3_2440



06:48:51 14.06.2022

BLE_2M_Ant3_2480



07:17:01 14.06.2022



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant3	2402	1.039	2401.479	2402.518	---	---
		2440	1.04	2439.479	2440.518	---	---
		2480	1.038	2479.477	2480.515	---	---
BLE_2M	Ant3	2402	2.066	2400.972	2403.037	---	---
		2440	2.067	2438.971	2441.038	---	---
		2480	2.063	2478.971	2481.034	---	---



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Test Graphs

BLE_1M_Ant3_2402



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BLE_1M_Ant3_2440



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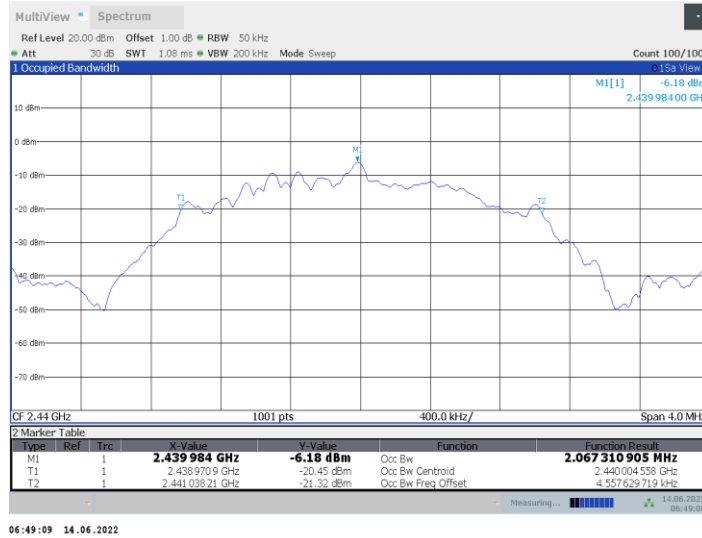
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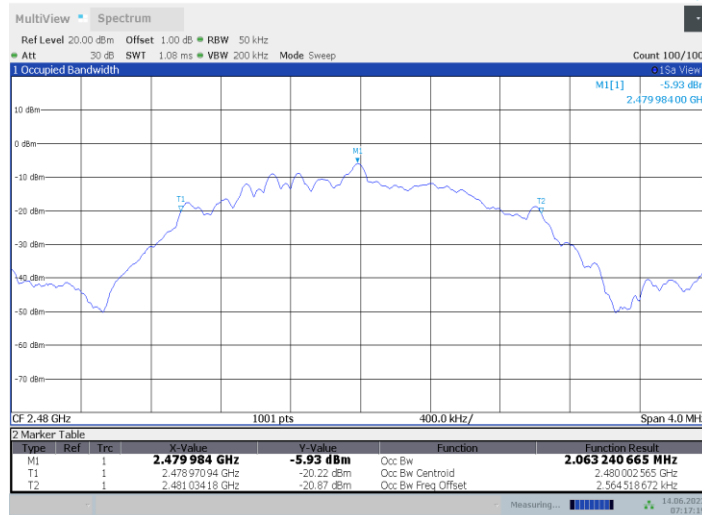
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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant3	2402	-4.65	≤30	PASS
		2440	-3.72	≤30	PASS
		2480	-3.62	≤30	PASS
BLE_2M	Ant3	2402	-4.61	≤30	PASS
		2440	-3.74	≤30	PASS
		2480	-3.6	≤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	Ant3	2402	-19.76	≤8.00	PASS
		2440	-18.76	≤8.00	PASS
		2480	-18.67	≤8.00	PASS
BLE_2M	Ant3	2402	-22.24	≤8.00	PASS
		2440	-21.21	≤8.00	PASS
		2480	-20.95	≤8.00	PASS



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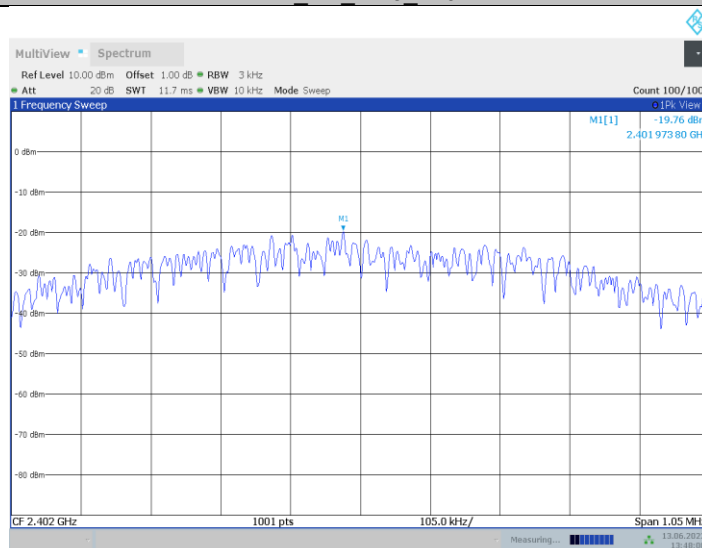
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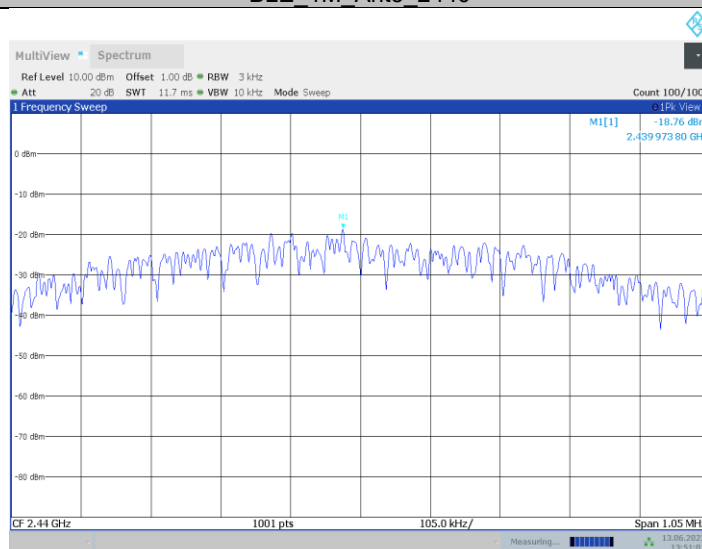
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Test Graphs

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BLE_1M_Ant3_2440



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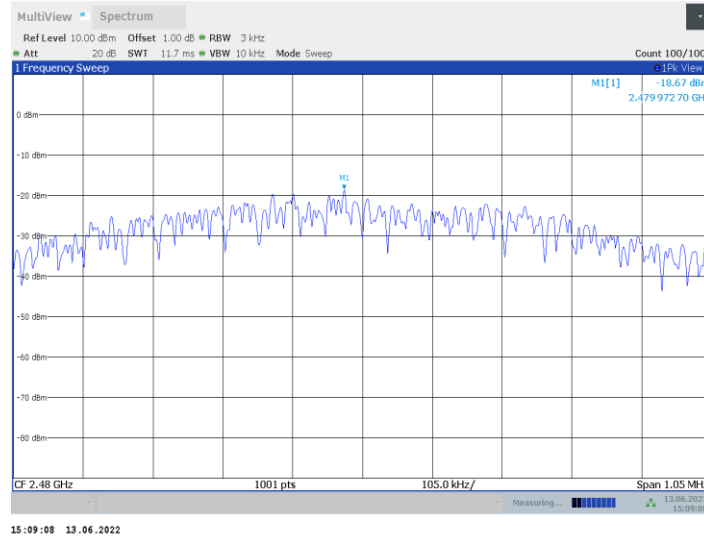
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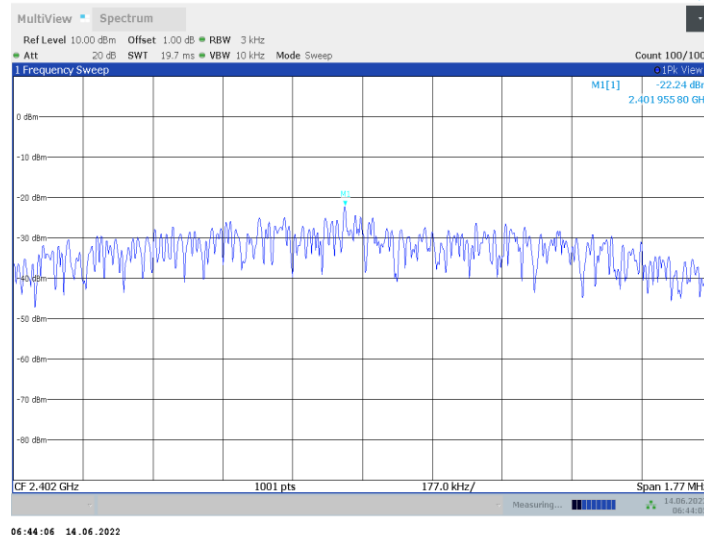
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BLE_1M_Ant3_2480



BLE_2M_Ant3_2402



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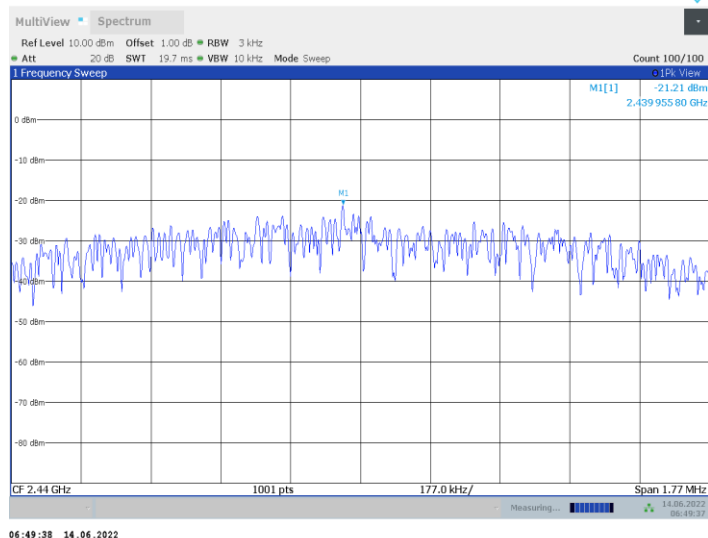
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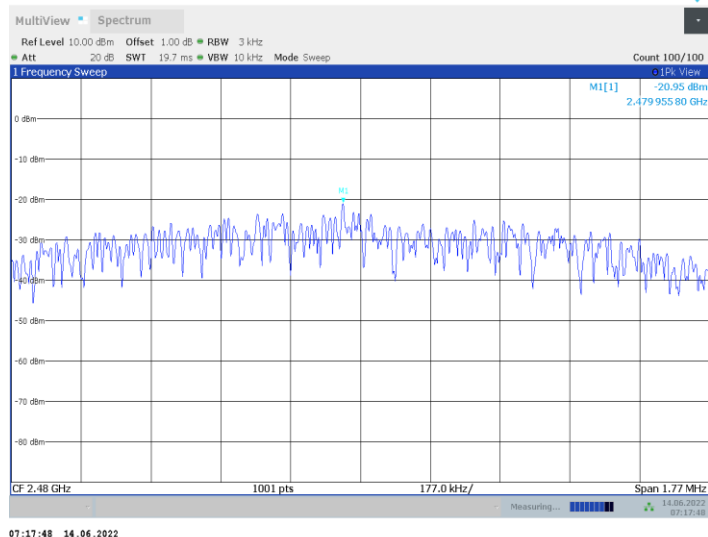
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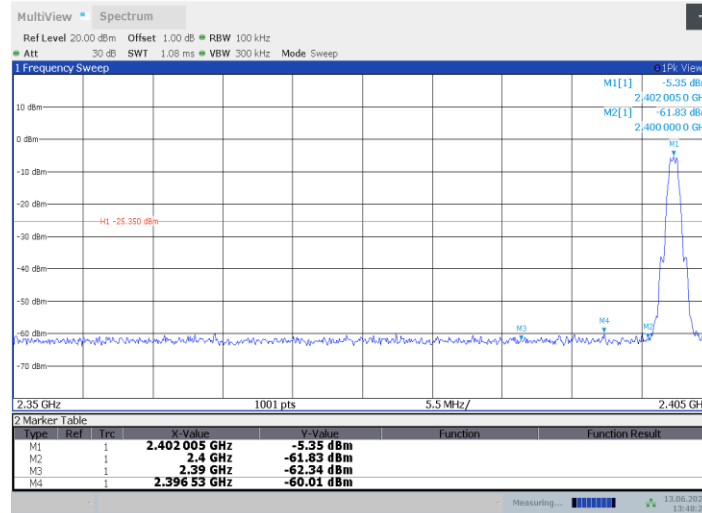
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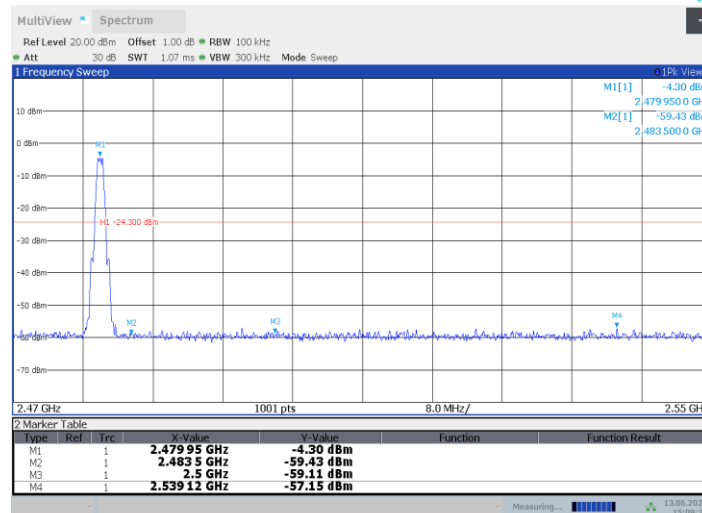
Band edge measurements Test Graphs

BLE 1M Ant3 Low 2402



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BLE 1M Ant3 High 2480



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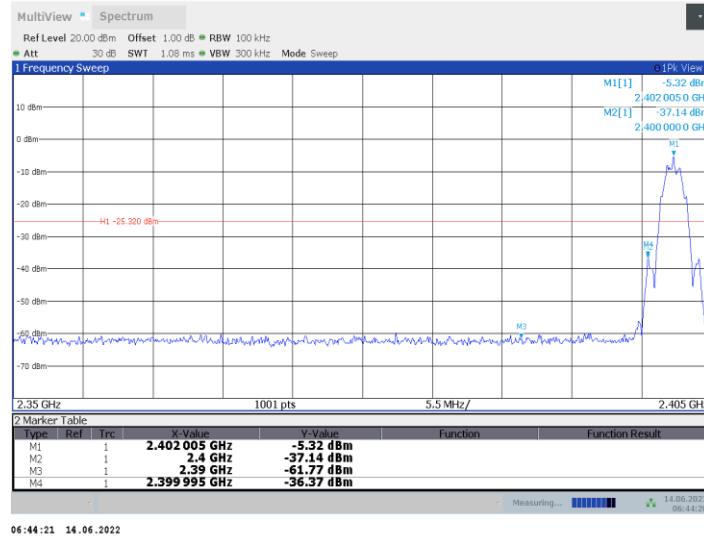
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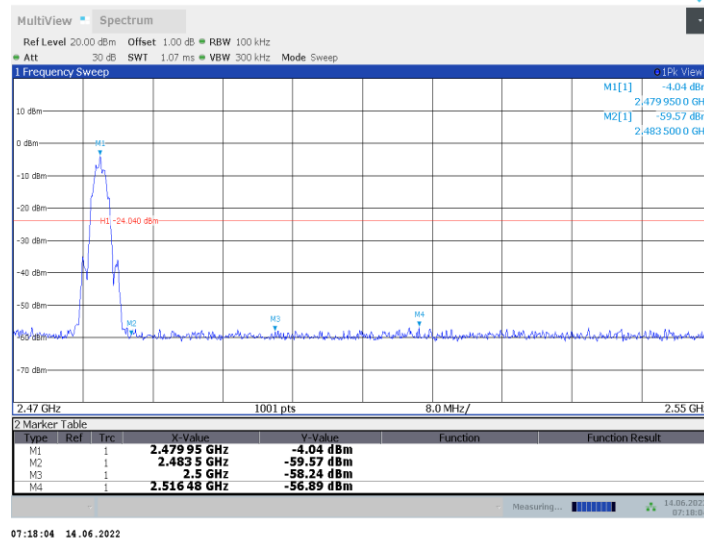
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BLE 2M Ant3 Low 2402



BLE 2M Ant3 High 2480



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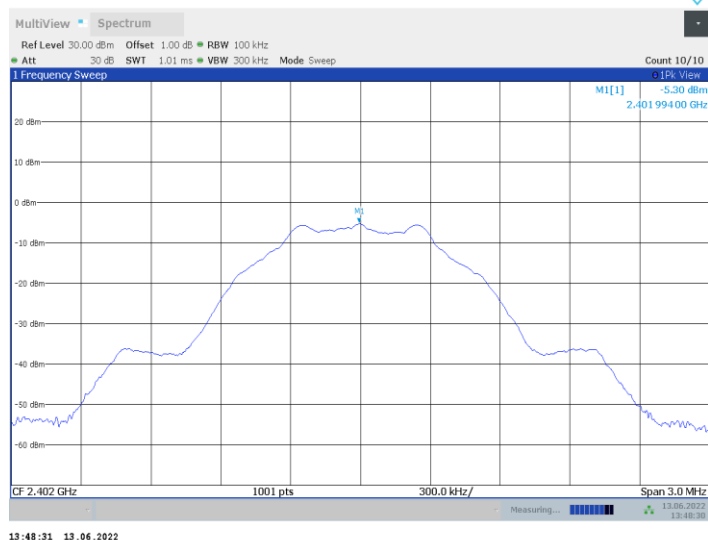
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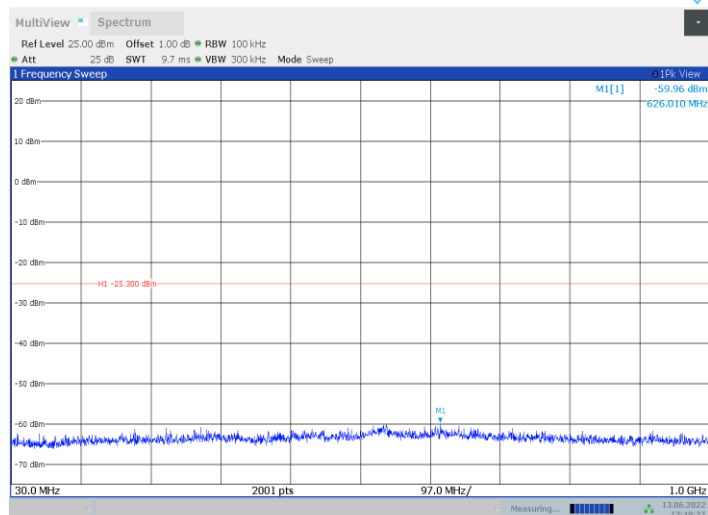
Conducted Spurious Emission Test Graphs

BLE_1M_Ant3_2402_0~Reference



13:48:31 13.06.2022

BLE_1M_Ant3_2402_30~1000



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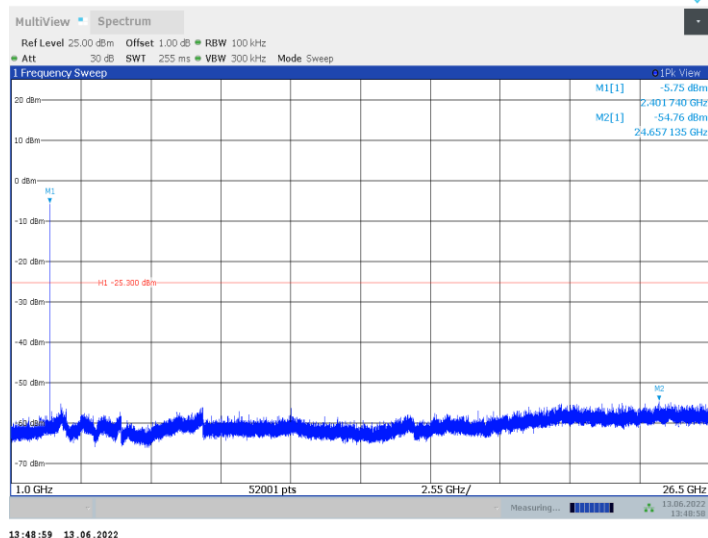
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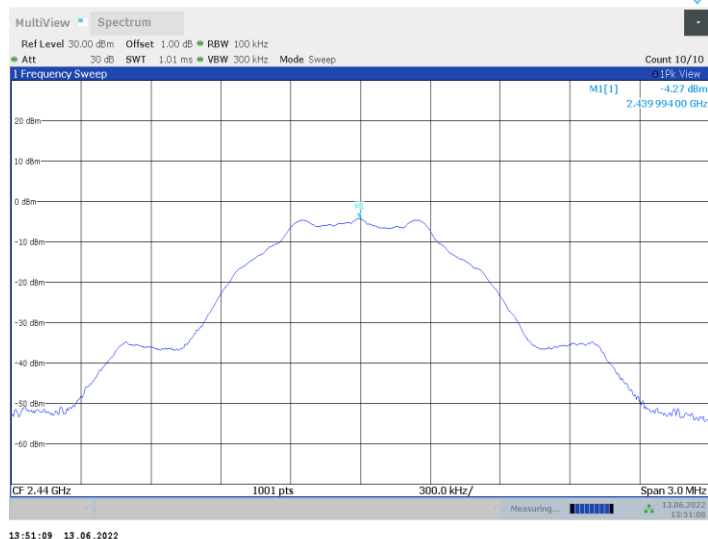
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BLE 1M Ant3 2402 1000~26500



BLE 1M Ant3 2440 0~Reference



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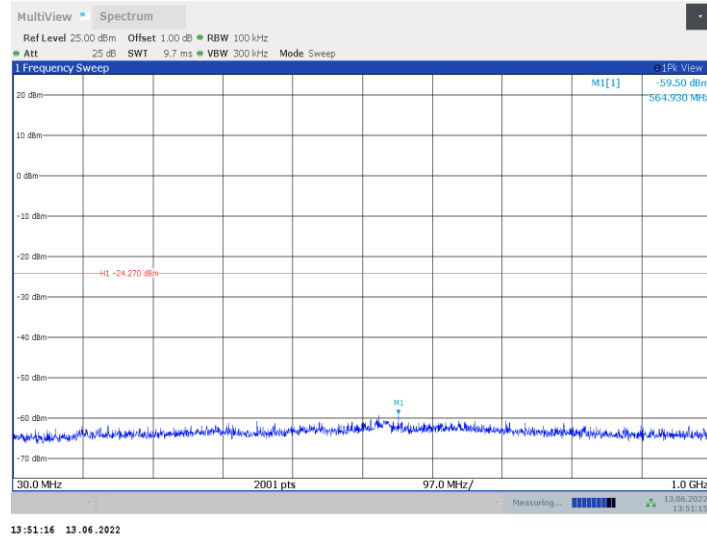
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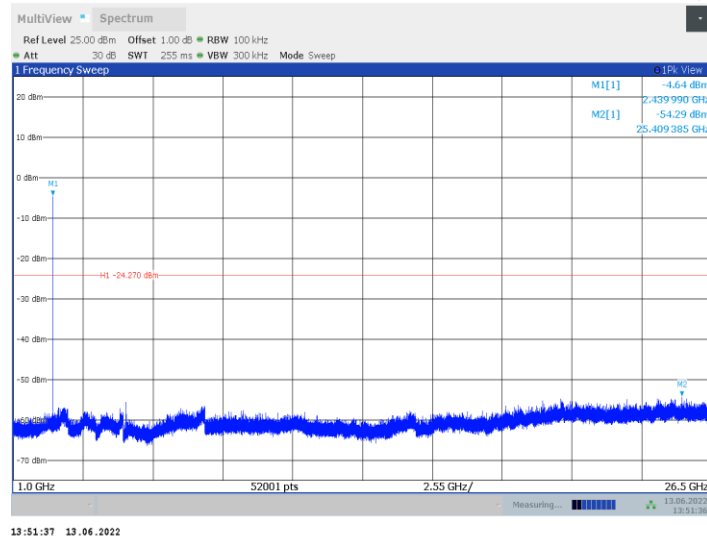
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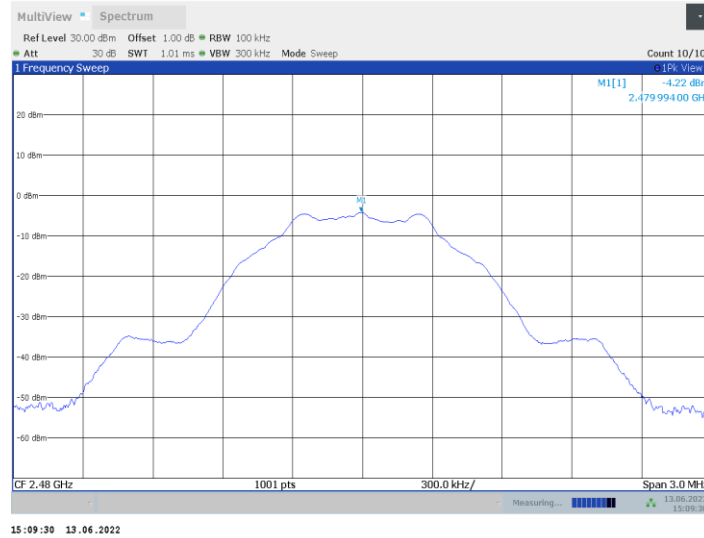
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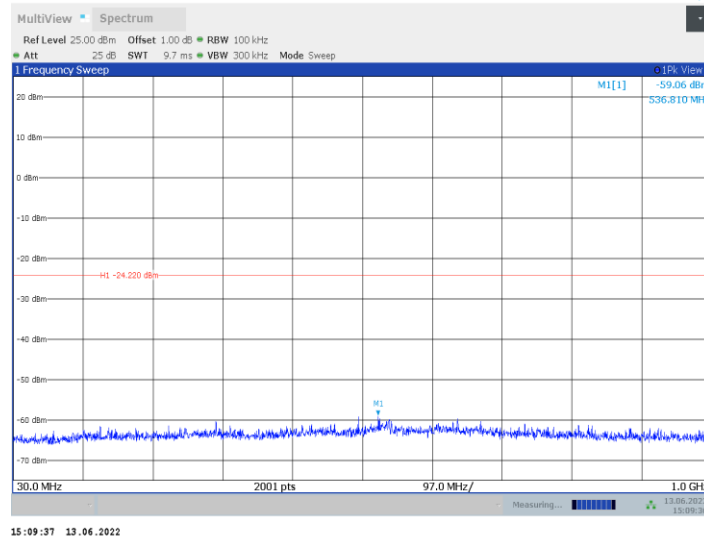
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BLE 1M Ant3 2480 0~Reference



BLE 1M Ant3 2480 30~1000



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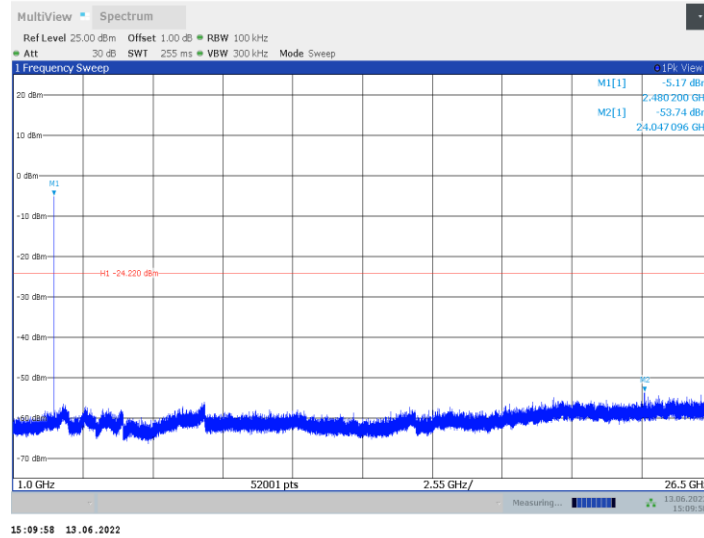
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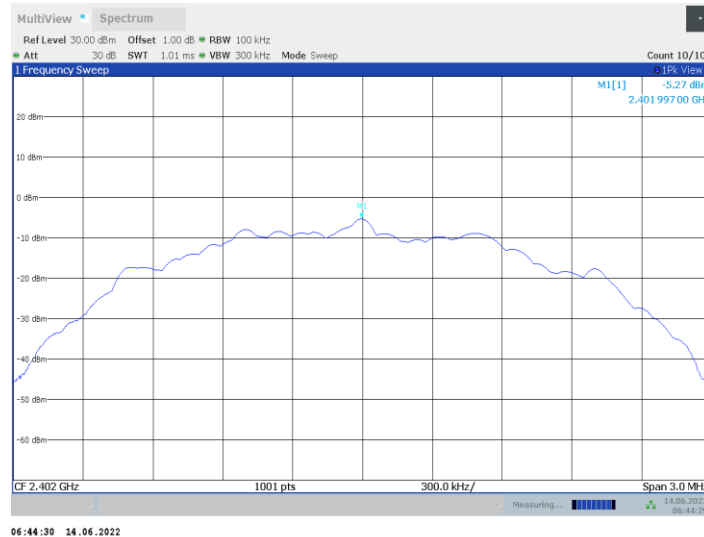
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BLE 1M Ant3 2480 1000~26500



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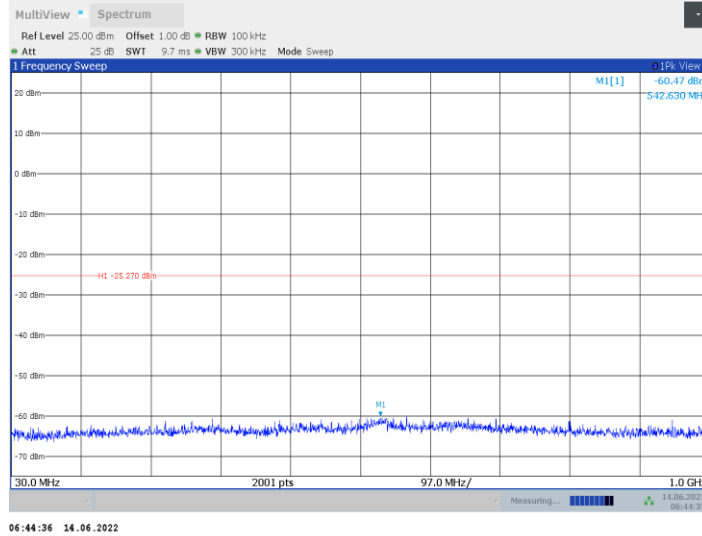
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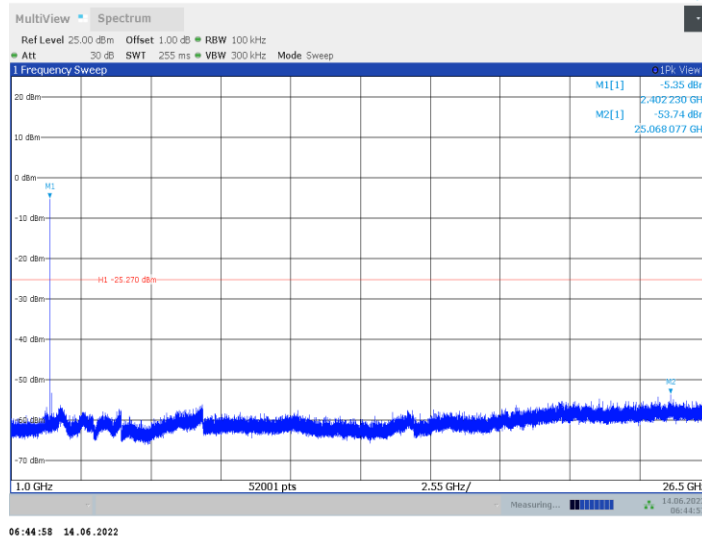
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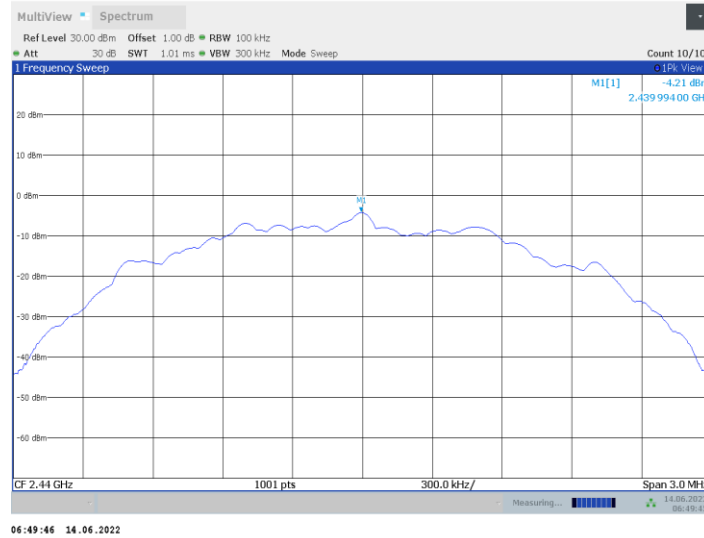
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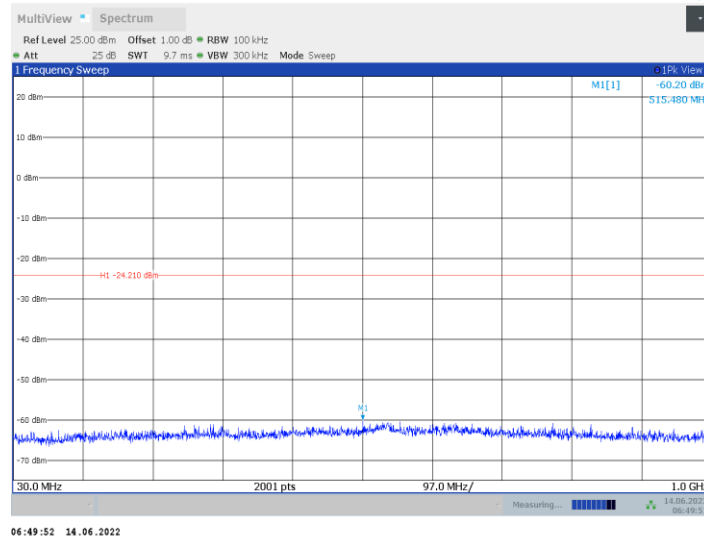
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BLE 2M Ant3 2440 30~1000



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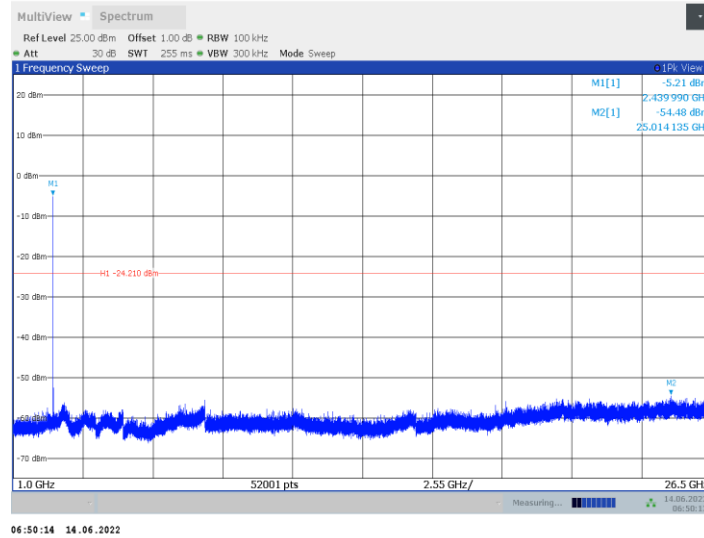
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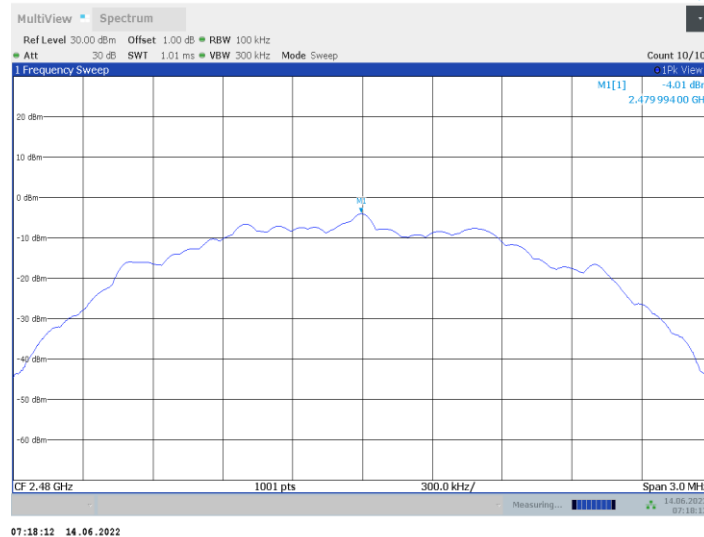
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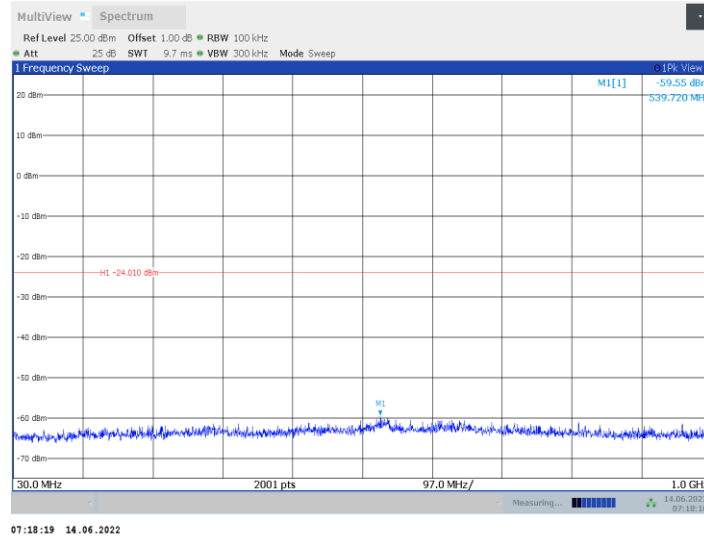
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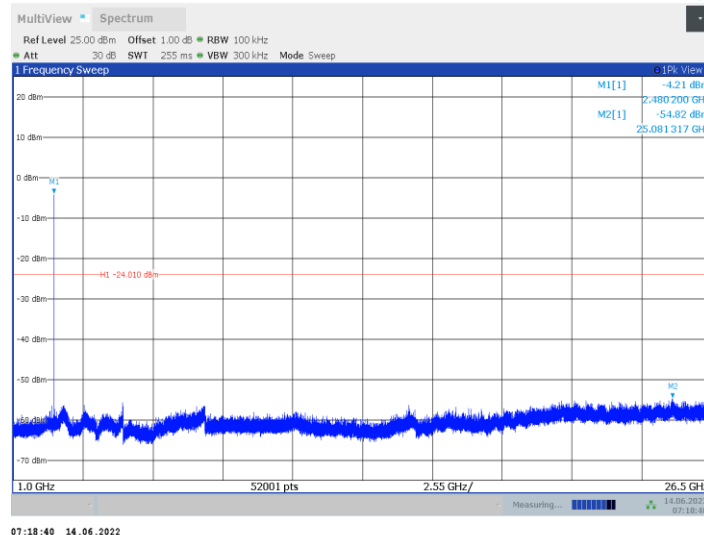
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant3	2402	0.38	0.63	60.32	2.20
BLE_2M	Ant3	2402	0.20	0.63	31.75	4.98



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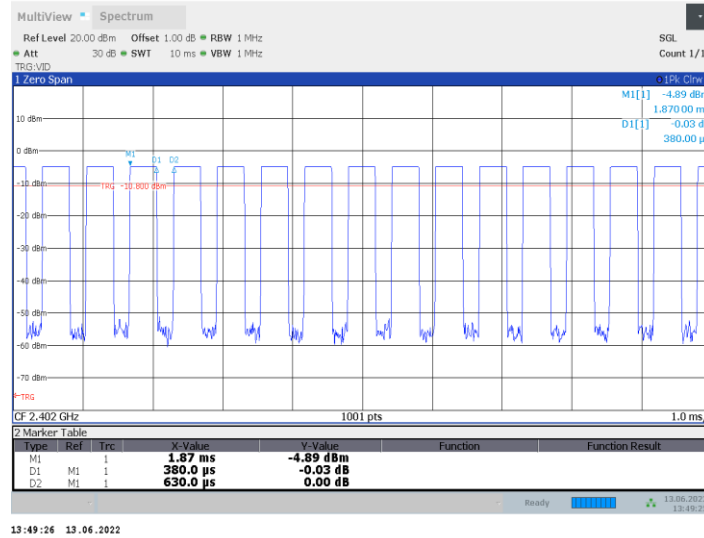
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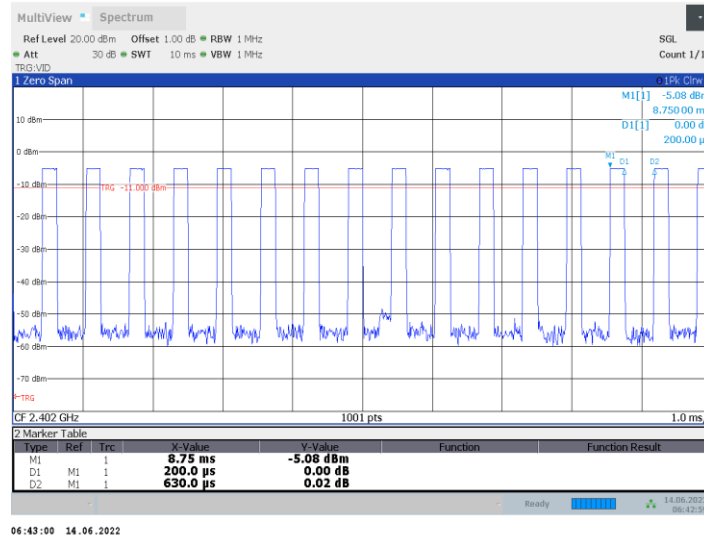
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Test Graphs

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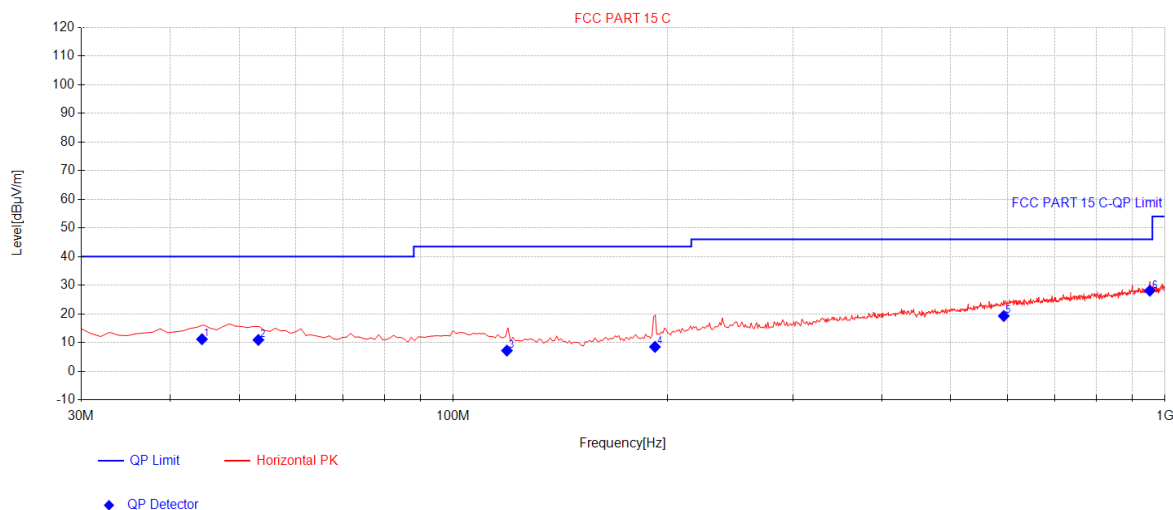
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE2M_Channel 19



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	44.3453	26.20	-28.05	13.01	11.16	40.00	28.84	117	164	Horizontal
2	53.2208	25.80	-27.88	13.01	10.93	40.00	29.07	206	104	Horizontal
3	118.9477	25.50	-27.69	9.39	7.20	43.50	36.30	109	215	Horizontal
4	192.0131	25.95	-27.20	9.74	8.49	43.50	35.01	179	276	Horizontal
5	593.5580	25.01	-24.58	18.84	19.27	46.00	26.73	220	90	Horizontal
6	951.9813	28.28	-22.59	22.40	28.09	46.00	17.91	106	86	Horizontal



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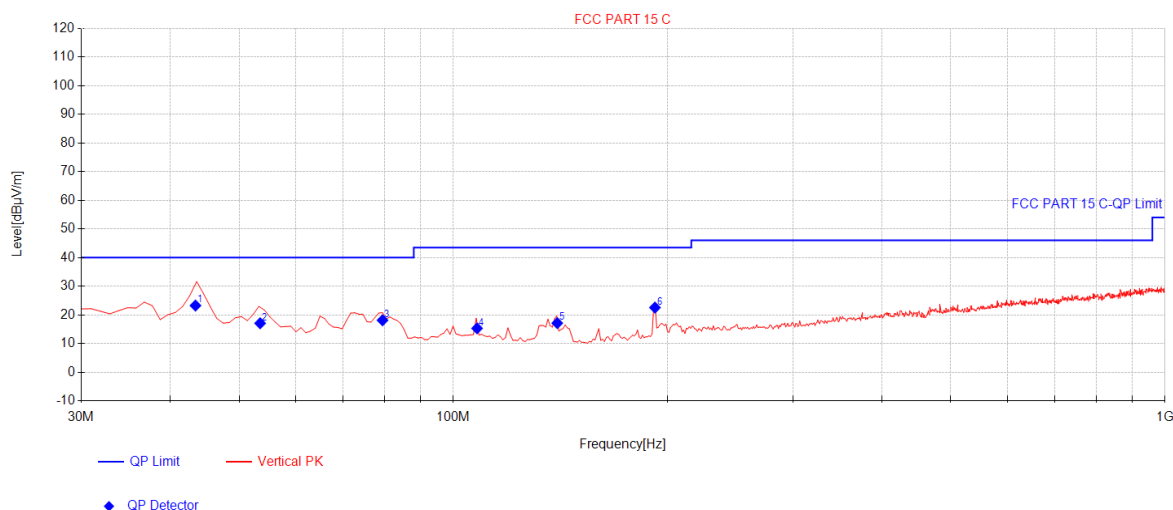
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Final Data List

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	43.4239	38.49	-28.05	12.82	23.26	40.00	16.74	106	263	Vertical
2	53.5278	31.95	-27.88	13.01	17.08	40.00	22.92	189	254	Vertical
3	79.5356	38.98	-27.93	7.08	18.13	40.00	21.87	106	115	Vertical
4	107.9940	32.01	-27.41	10.72	15.32	43.50	28.18	186	254	Vertical
5	139.9805	36.76	-27.14	7.52	17.14	43.50	26.36	214	101	Vertical
6	192.0159	40.00	-27.20	9.74	22.54	43.50	20.96	120	141	Vertical



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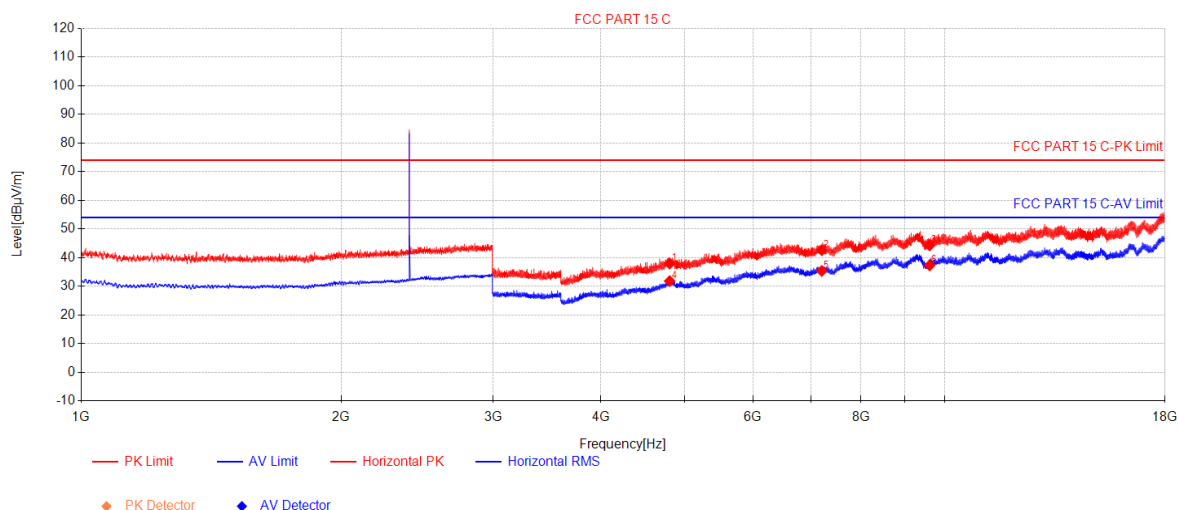
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Transmitter emission Above 1GHz

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	50.24	32.13	-44.46	37.91	74.00	36.09	163	64	Horizontal
2	7206	48.49	36.32	-42.23	42.58	74.00	31.42	254	357	Horizontal
3	9608	43.76	38.54	-38.05	44.25	74.00	29.75	152	235	Horizontal
4	4804	44.11	32.13	-44.46	31.78	54.00	22.22	254	15	Horizontal
5	7206	41.24	36.32	-42.23	35.33	54.00	18.67	196	14	Horizontal
6	9608	36.80	38.54	-38.05	37.29	54.00	16.71	269	135	Horizontal



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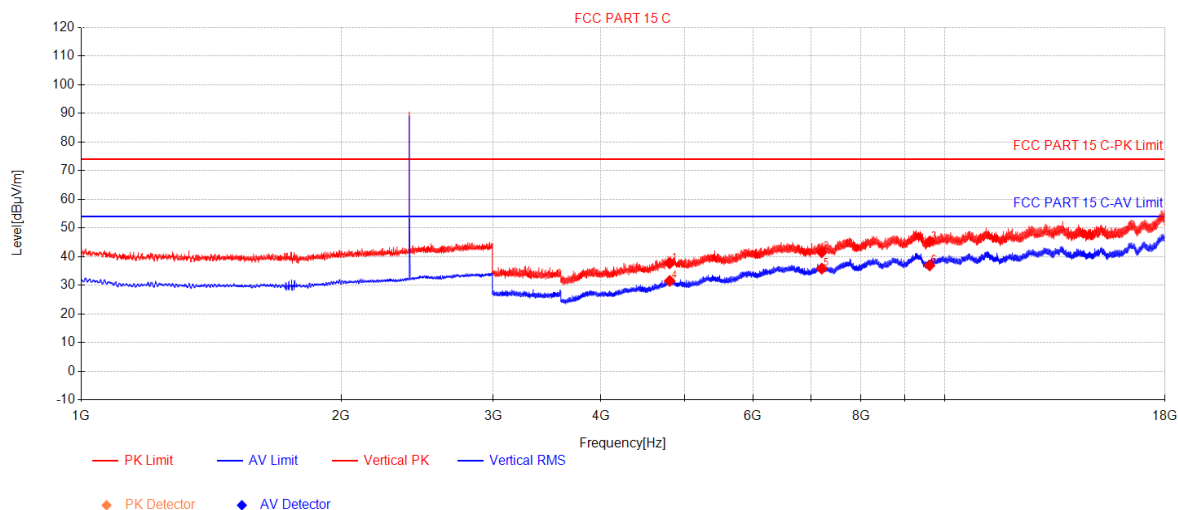
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BLE 1M_Channel 00



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	49.99	32.13	-44.46	37.66	74.00	36.34	142	282	Vertical
2	7206	47.42	36.32	-42.23	41.51	74.00	32.49	285	357	Vertical
3	9608	44.75	38.54	-38.05	45.24	74.00	28.76	263	96	Vertical
4	4804	43.82	32.13	-44.46	31.49	54.00	22.51	304	357	Vertical
5	7206	41.70	36.32	-42.23	35.79	54.00	18.21	177	254	Vertical
6	9608	36.42	38.54	-38.05	36.91	54.00	17.09	152	59	Vertical



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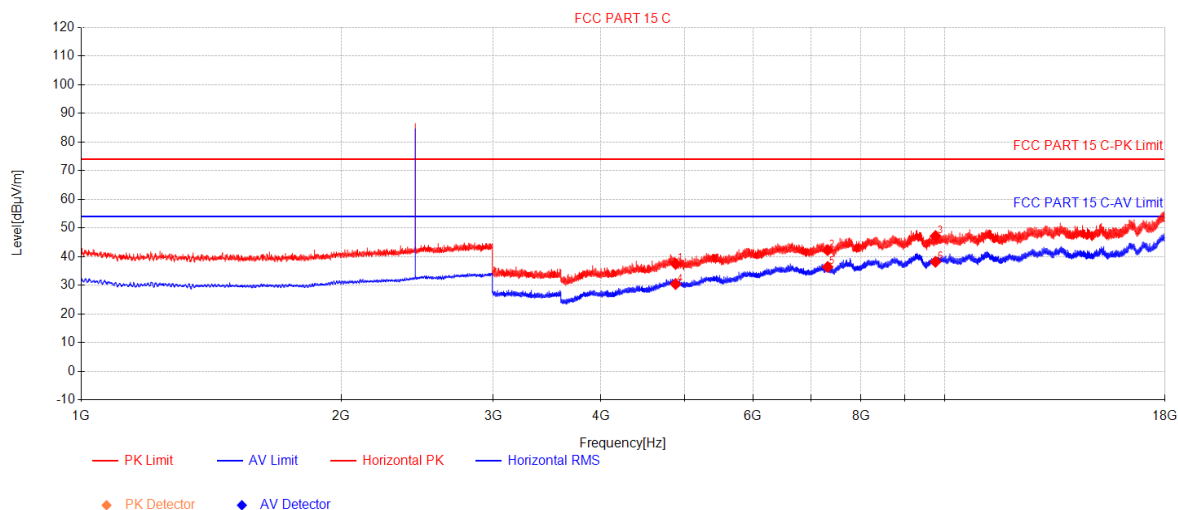
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BLE 1M_Channel 19



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	49.94	32.31	-44.79	37.46	74.00	36.54	261	337	Horizontal
2	7320	47.65	36.39	-41.80	42.24	74.00	31.76	142	86	Horizontal
3	9760	46.12	38.52	-37.51	47.14	74.00	26.86	196	32	Horizontal
4	4880	42.91	32.31	-44.79	30.43	54.00	23.57	263	207	Horizontal
5	7320	41.79	36.39	-41.80	36.38	54.00	17.62	306	333	Horizontal
6	9760	37.15	38.52	-37.51	38.17	54.00	15.83	294	32	Horizontal



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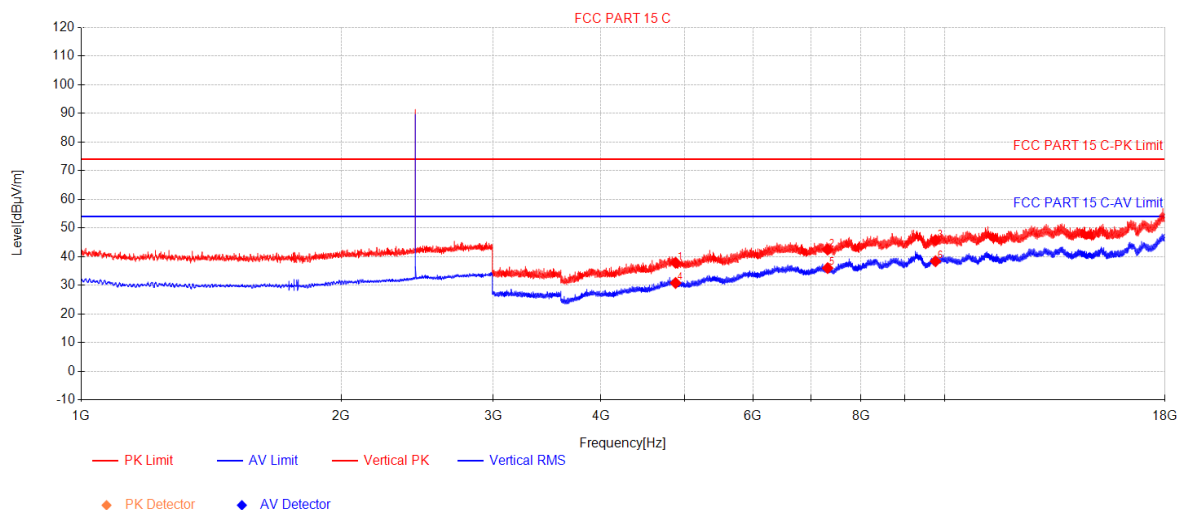
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BLE 1M_Channel 19



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	50.33	32.31	-44.79	37.85	74.00	36.15	140	182	Vertical
2	7320	47.84	36.39	-41.80	42.43	74.00	31.57	261	83	Vertical
3	9760	44.68	38.52	-37.51	45.70	74.00	28.30	175	0	Vertical
4	4880	43.26	32.31	-44.79	30.78	54.00	23.22	284	8	Vertical
5	7320	41.39	36.39	-41.80	35.98	54.00	18.02	169	233	Vertical
6	9760	37.35	38.52	-37.51	38.37	54.00	15.63	268	11	Vertical



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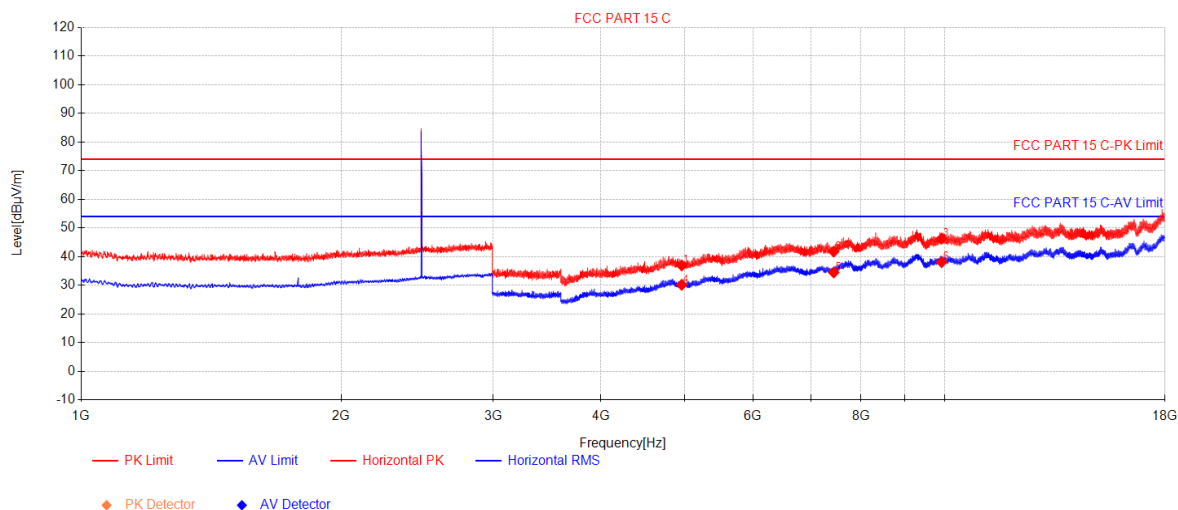
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.31	32.50	-44.92	36.90	74.00	37.10	263	210	Horizontal
2	7440	47.09	36.46	-41.83	41.73	74.00	32.27	254	106	Horizontal
3	9920	44.97	38.51	-37.22	46.26	74.00	27.74	175	56	Horizontal
4	4960	42.55	32.50	-44.92	30.14	54.00	23.86	286	33	Horizontal
5	7440	39.82	36.46	-41.83	34.46	54.00	19.54	263	1	Horizontal
6	9920	36.78	38.51	-37.22	38.07	54.00	15.93	254	1	Horizontal



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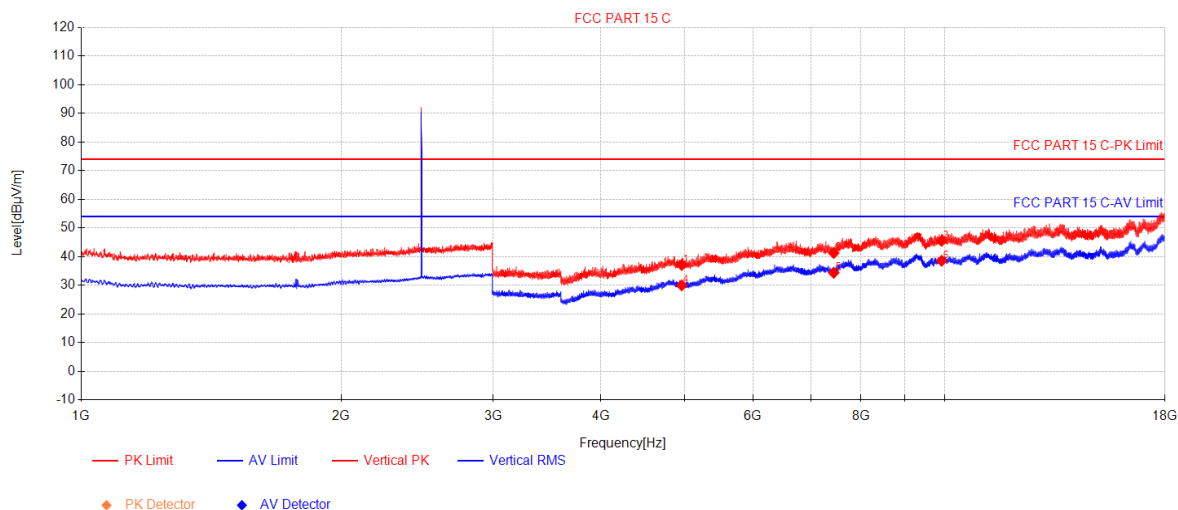
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.45	32.50	-44.92	37.04	74.00	36.96	142	256	Vertical
2	7440	46.57	36.46	-41.83	41.21	74.00	32.79	275	357	Vertical
3	9920	44.19	38.51	-37.22	45.48	74.00	28.52	263	333	Vertical
4	4960	42.38	32.50	-44.92	29.97	54.00	24.03	254	283	Vertical
5	7440	39.71	36.46	-41.83	34.35	54.00	19.65	184	0	Vertical
6	9920	37.23	38.51	-37.22	38.52	54.00	15.48	188	184	Vertical



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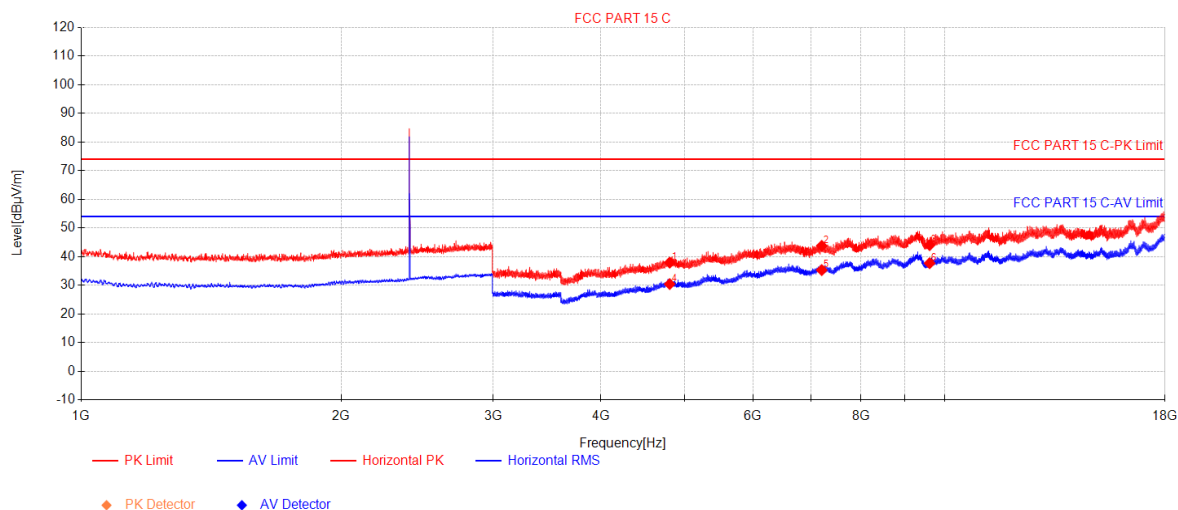
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BLE 2M_Channel 00



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	50.22	32.13	-44.46	37.89	74.00	36.11	186	111	Horizontal
2	7206	49.62	36.32	-42.23	43.71	74.00	30.29	263	61	Horizontal
3	9608	43.49	38.54	-38.05	43.98	74.00	30.02	241	160	Horizontal
4	4804	42.74	32.13	-44.46	30.41	54.00	23.59	179	333	Horizontal
5	7206	41.18	36.32	-42.23	35.27	54.00	18.73	326	160	Horizontal
6	9608	37.19	38.54	-38.05	37.68	54.00	16.32	265	0	Horizontal



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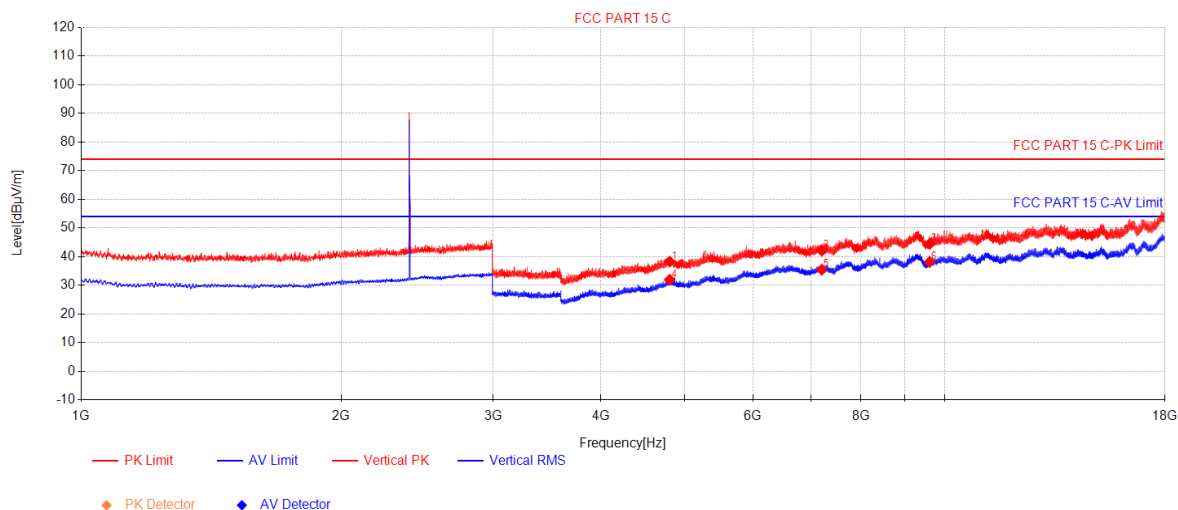
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BLE 2M_Channel 00



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	50.56	32.13	-44.46	38.23	74.00	35.77	185	208	Vertical
2	7206	47.98	36.32	-42.23	42.07	74.00	31.93	263	37	Vertical
3	9608	43.94	38.54	-38.05	44.43	74.00	29.57	254	285	Vertical
4	4804	44.24	32.13	-44.46	31.91	54.00	22.09	174	37	Vertical
5	7206	41.34	36.32	-42.23	35.43	54.00	18.57	185	60	Vertical
6	9608	37.63	38.54	-38.05	38.12	54.00	15.88	264	309	Vertical



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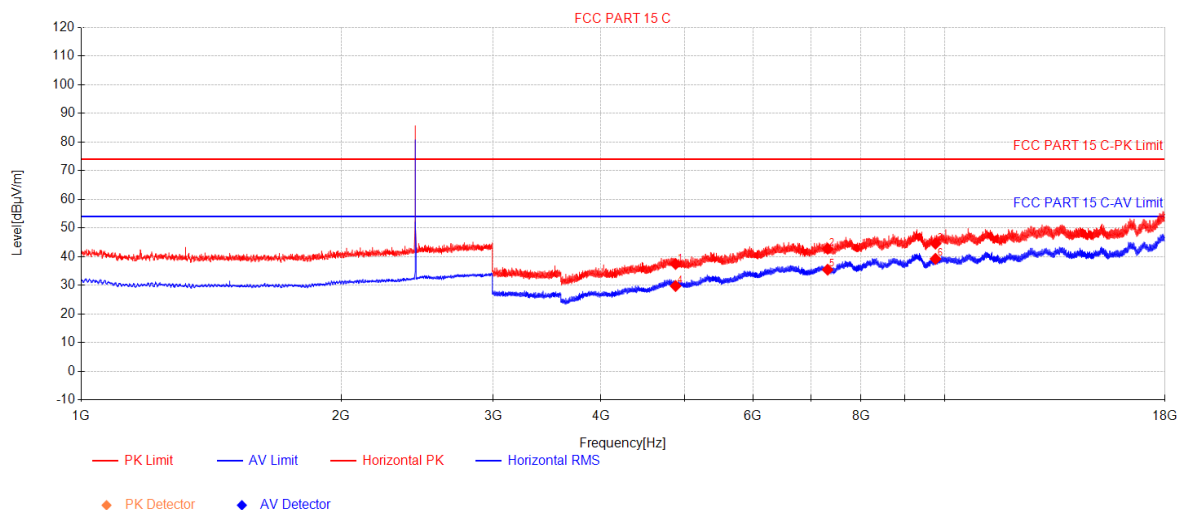
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BLE 2M_Channel 19



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	49.89	32.31	-44.79	37.41	74.00	36.59	142	187	Horizontal
2	7320	48.14	36.39	-41.80	42.73	74.00	31.27	263	11	Horizontal
3	9760	43.48	38.52	-37.51	44.50	74.00	29.50	251	86	Horizontal
4	4880	42.22	32.31	-44.79	29.74	54.00	24.26	148	333	Horizontal
5	7320	40.83	36.39	-41.80	35.42	54.00	18.58	196	38	Horizontal
6	9760	38.17	38.52	-37.51	39.19	54.00	14.81	264	261	Horizontal



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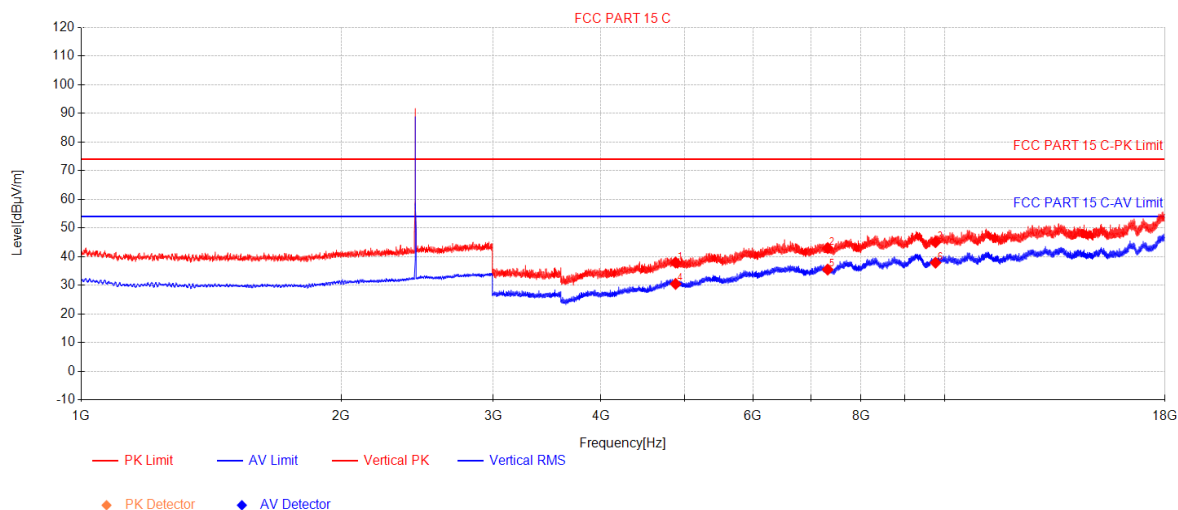
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	50.42	32.31	-44.79	37.94	74.00	36.06	263	96	Vertical
2	7320	48.38	36.39	-41.80	42.97	74.00	31.03	254	357	Vertical
3	9760	43.99	38.52	-37.51	45.01	74.00	28.99	175	46	Vertical
4	4880	42.95	32.31	-44.79	30.47	54.00	23.53	286	357	Vertical
5	7320	40.87	36.39	-41.80	35.46	54.00	18.54	263	357	Vertical
6	9760	36.84	38.52	-37.51	37.86	54.00	16.14	254	131	Vertical



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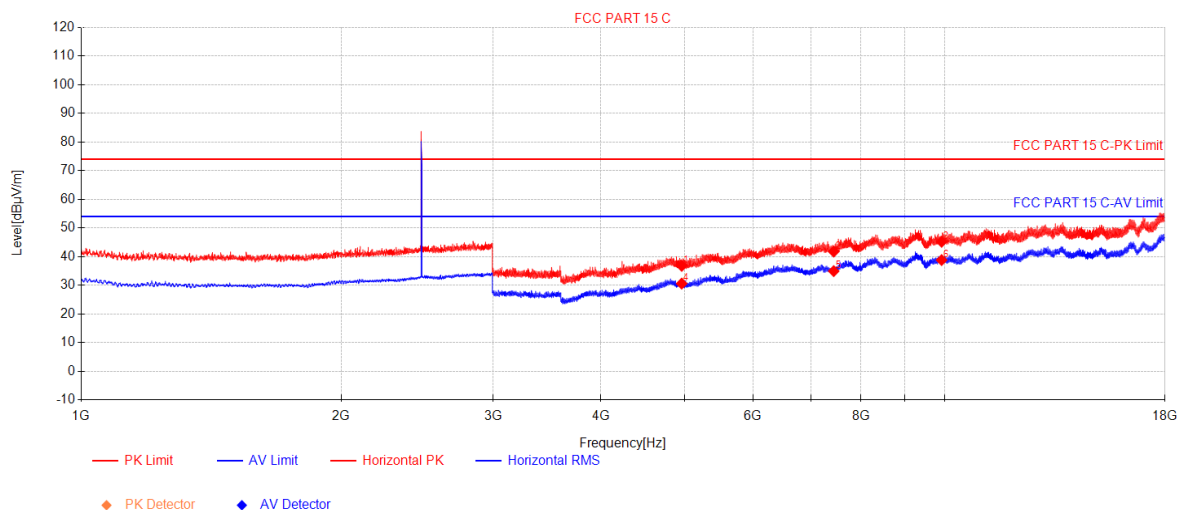
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.16	32.50	-44.92	36.75	74.00	37.25	175	178	Horizontal
2	7440	47.11	36.46	-41.83	41.75	74.00	32.25	263	357	Horizontal
3	9920	43.86	38.51	-37.22	45.15	74.00	28.85	285	0	Horizontal
4	4960	42.99	32.50	-44.92	30.58	54.00	23.42	263	237	Horizontal
5	7440	40.27	36.46	-41.83	34.91	54.00	19.09	241	262	Horizontal
6	9920	37.48	38.51	-37.22	38.77	54.00	15.23	196	14	Horizontal



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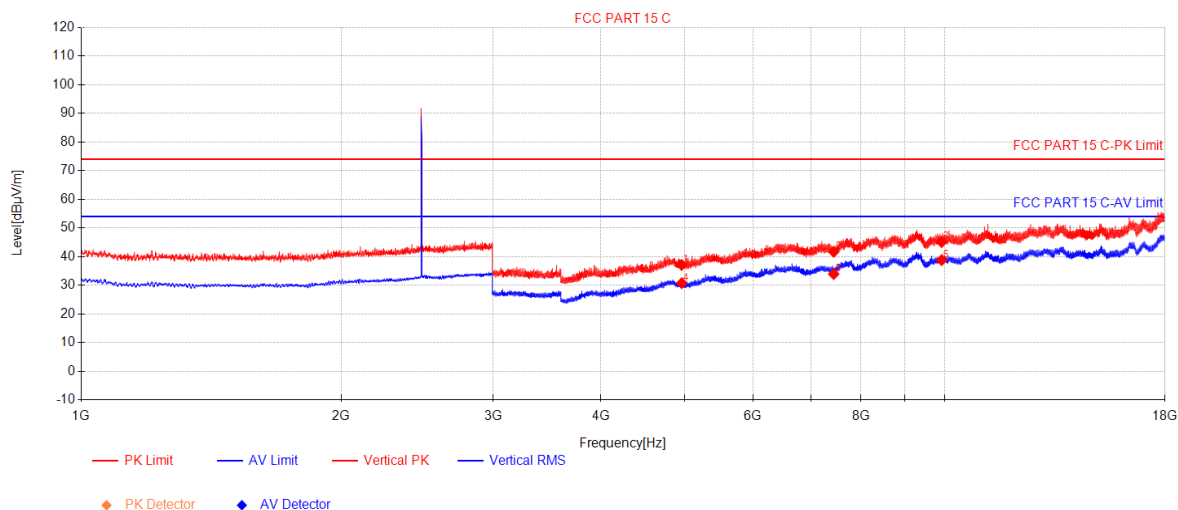
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.48	32.50	-44.92	37.07	74.00	36.93	263	1	Vertical
2	7440	47.03	36.46	-41.83	41.67	74.00	32.33	296	262	Vertical
3	9920	43.76	38.51	-37.22	45.05	74.00	28.95	265	106	Vertical
4	4960	43.14	32.50	-44.92	30.73	54.00	23.27	241	96	Vertical
5	7440	39.27	36.46	-41.83	33.91	54.00	20.09	174	36	Vertical
6	9920	37.47	38.51	-37.22	38.76	54.00	15.24	182	60	Vertical

Remark:

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(dBμV) + AF(dB/m) + Factor(dB):

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

AF = Antenna Factor(dB/m)

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



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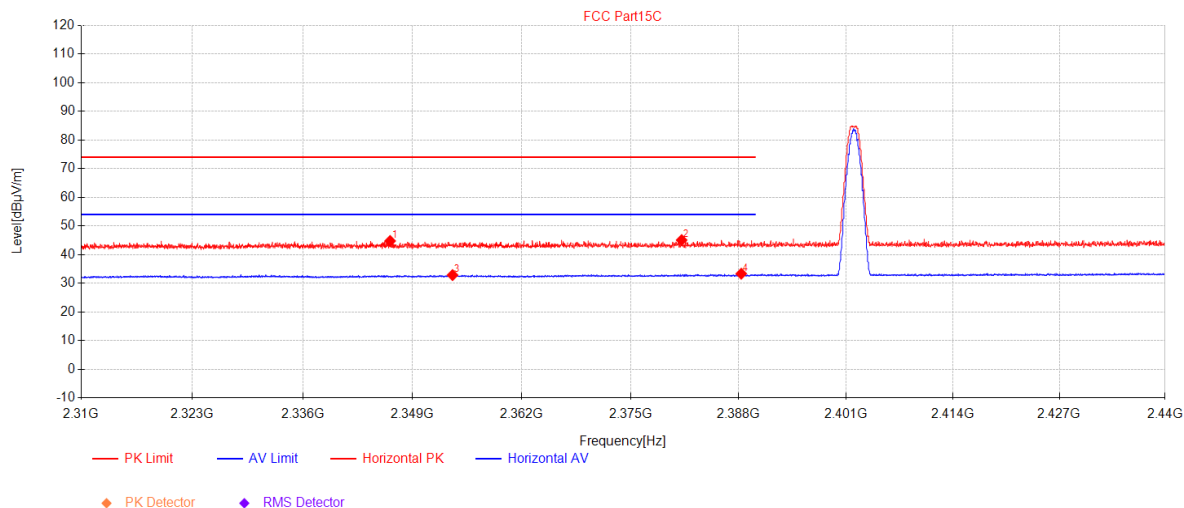
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Restricted bands around fundamental frequency

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	2346.335	41.67	27.59	-24.52	44.74	74.00	29.26	334	145	Horizontal
2	2381.1425	41.83	27.66	-24.44	45.05	74.00	28.95	334	145	Horizontal
3	2353.745	29.73	27.61	-24.50	32.84	54.00	21.16	334	145	Horizontal
4	2388.325	30.07	27.68	-24.43	33.32	54.00	20.68	334	145	Horizontal



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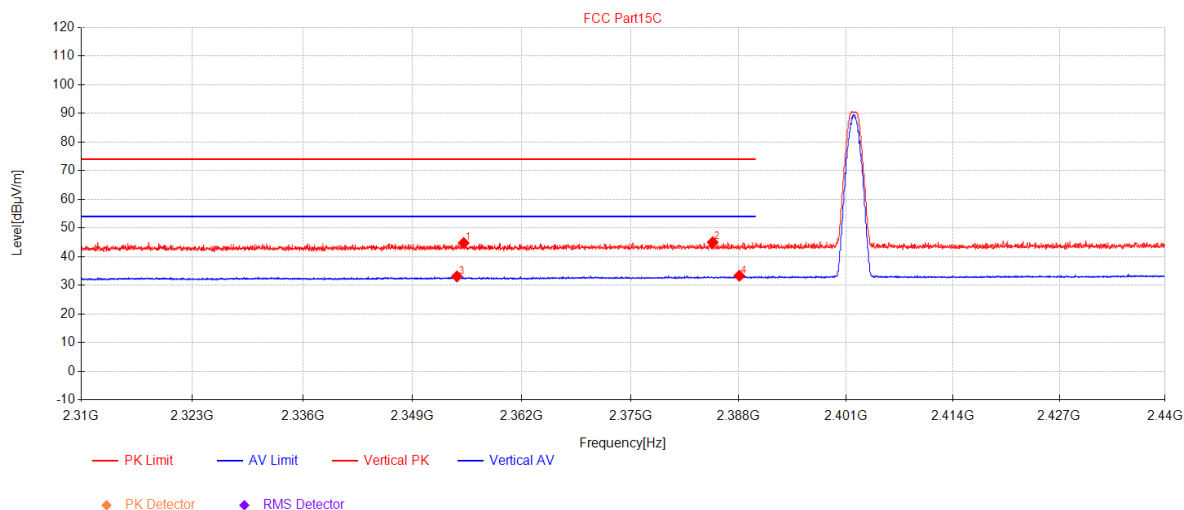
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2355.0775	41.63	27.61	-24.50	44.74	74.00	29.26	162	58	Vertical
2	2384.88	41.75	27.67	-24.43	44.99	74.00	29.01	162	58	Vertical
3	2354.265	29.96	27.61	-24.50	33.07	54.00	20.93	162	58	Vertical
4	2388.0975	30.06	27.68	-24.43	33.31	54.00	20.69	162	58	Vertical



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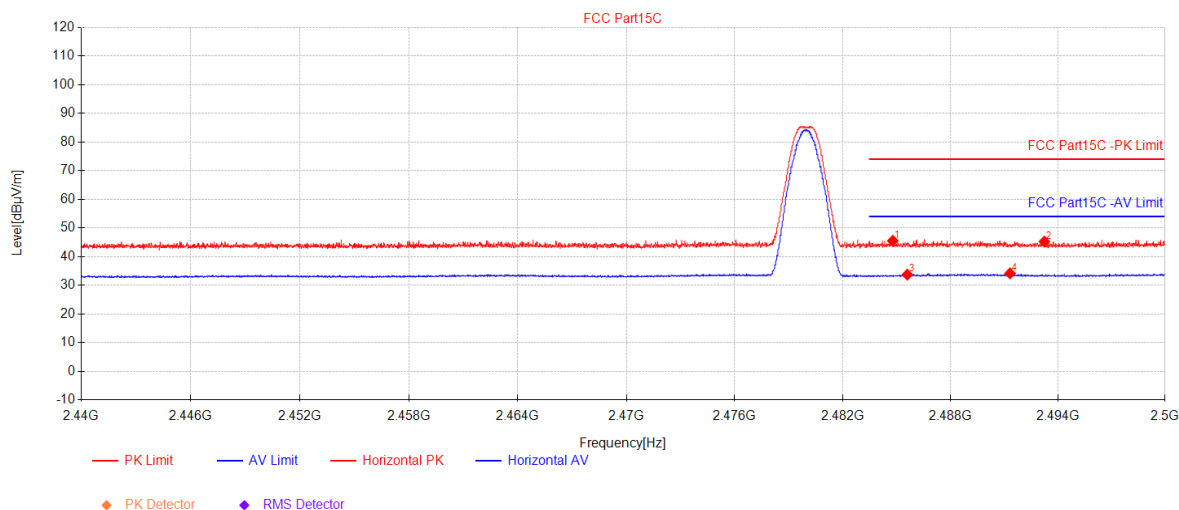
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.79	41.57	27.87	-23.95	45.49	74.00	28.51	343	249	Horizontal
2	2493.25	41.24	27.89	-23.91	45.22	74.00	28.78	343	249	Horizontal
3	2485.6	29.77	27.87	-23.95	33.69	54.00	20.31	343	249	Horizontal
4	2491.33	30.16	27.88	-23.92	34.13	54.00	19.87	343	249	Horizontal



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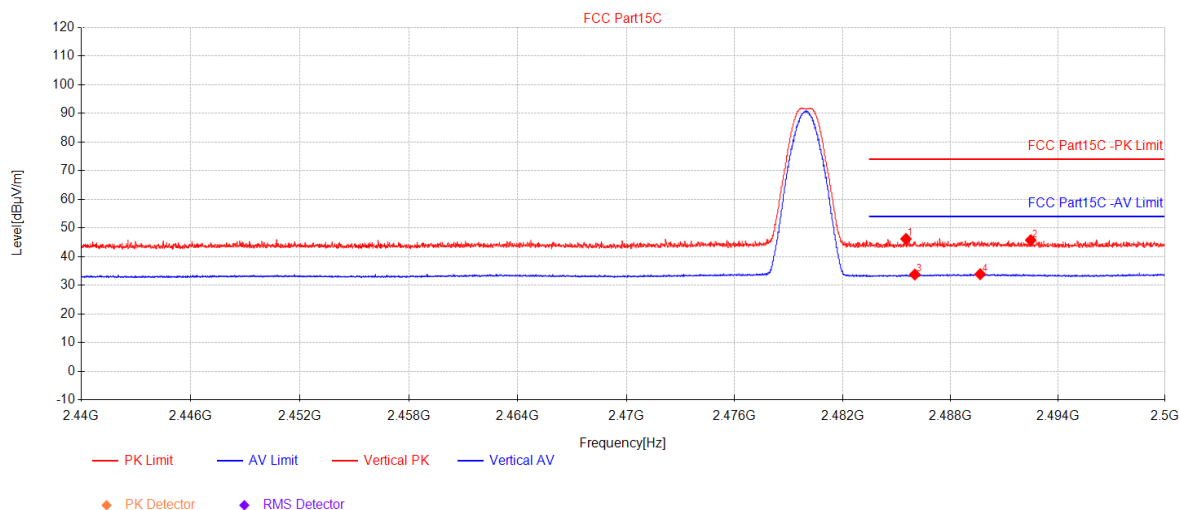
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.525	42.24	27.87	-23.95	46.16	74.00	27.84	143	86	Vertical
2	2492.485	41.74	27.88	-23.91	45.72	74.00	28.28	143	86	Vertical
3	2486.02	29.79	27.87	-23.94	33.72	54.00	20.28	143	86	Vertical
4	2489.665	29.90	27.88	-23.92	33.85	54.00	20.15	143	86	Vertical



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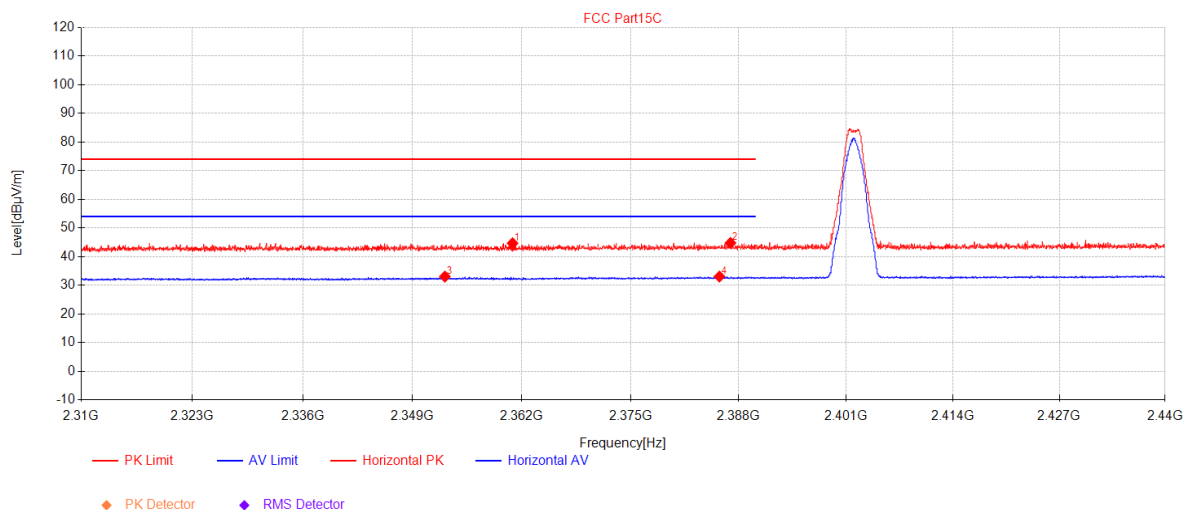
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1	2360.895	41.50	27.62	-24.49	44.64	74.00	29.36	304	296	Horizontal
2	2387.025	41.50	27.67	-24.43	44.75	74.00	29.25	304	296	Horizontal
3	2352.835	29.92	27.61	-24.50	33.02	54.00	20.98	304	296	Horizontal
4	2385.6925	29.78	27.67	-24.43	33.02	54.00	20.98	304	296	Horizontal



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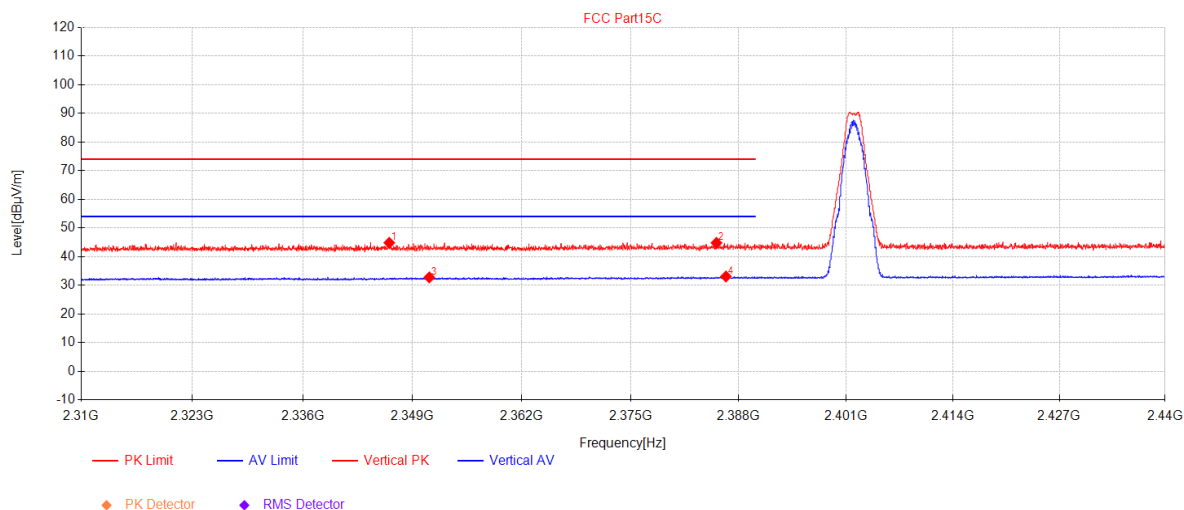
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BLE 2M_Channel 00



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	2346.2375	41.72	27.59	-24.52	44.79	74.00	29.21	149	62	Vertical
2	2385.335	41.53	27.67	-24.43	44.77	74.00	29.23	149	62	Vertical
3	2350.9825	29.65	27.60	-24.51	32.74	54.00	21.26	149	62	Vertical
4	2386.4725	29.80	27.67	-24.43	33.04	54.00	20.96	149	62	Vertical



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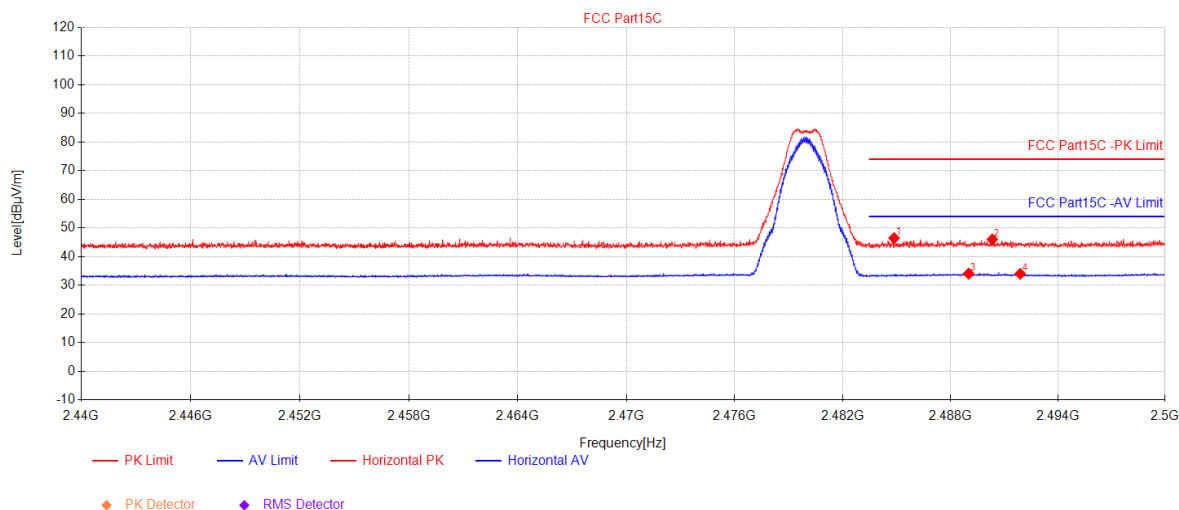
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BLE 2M_Channel 39



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	2484.865	42.54	27.87	-23.95	46.46	74.00	27.54	362	118	Horizontal
2	2490.34	42.00	27.88	-23.92	45.96	74.00	28.04	362	118	Horizontal
3	2489.02	30.08	27.88	-23.93	34.03	54.00	19.97	362	118	Horizontal
4	2491.9	30.01	27.88	-23.91	33.98	54.00	20.02	362	118	Horizontal



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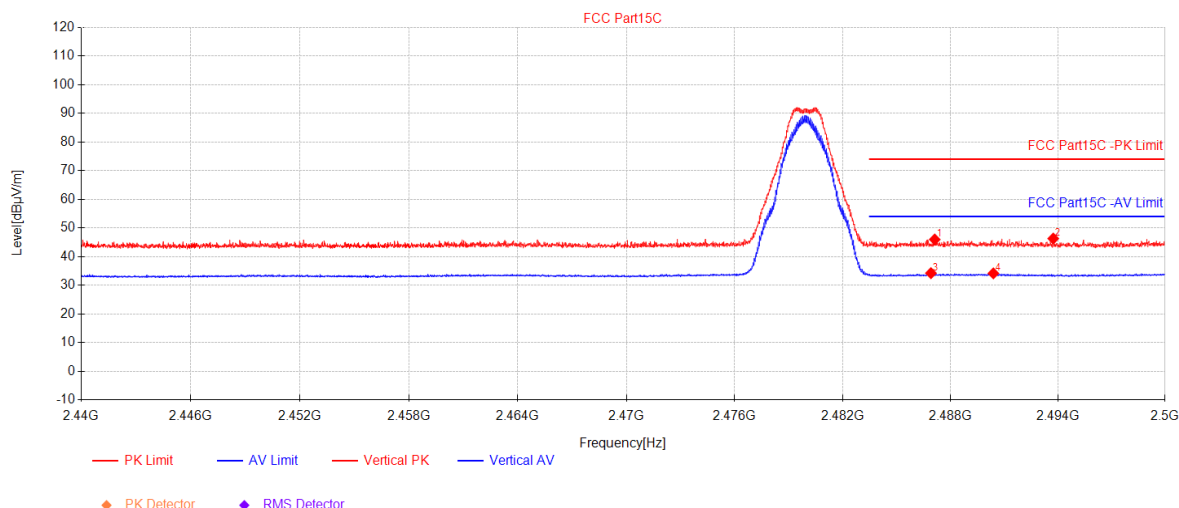
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BLE 2M_Channel 39



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	2487.13	42.01	27.87	-23.94	45.95	74.00	28.05	147	86	Vertical
2	2493.745	42.29	27.89	-23.90	46.27	74.00	27.73	147	86	Vertical
3	2486.92	30.28	27.87	-23.94	34.21	54.00	19.79	147	86	Vertical
4	2490.4	30.17	27.88	-23.92	34.13	54.00	19.87	147	86	Vertical

Remark:

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(dBμV) + AF(dB/m) + Factor(dB):

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

AF = Antenna Factor(dB/m)

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

---End of Report---



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