

Report No.: SUCR240200003405

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### **TEST REPORT**

Application No.: SUCR2402000034WM

Applicant: KonnectONE, Inc

Address of Applicant: 40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A

Manufacturer: KonnectONE, Inc

Address of Manufacturer: 40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A

**EUT Description:** smartphone

Model No.: m2467
Trade Mark: Moxee

FCC ID: 2APQU-M2467

**Standards:** FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

**Date of Receipt:** 2024/02/07

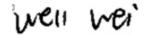
**Date of Test:** 2024/02/28 to 2024/07/05

**Date of Issue:** 2024/07/08

Test Result : PASS \*

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei Wireless Laboratory Manager



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#### 1 Version

Revision Record							
Version Chapter Date Modifier Remark							
01		2024/07/08		Original			

Prepared By	(Ives Cheng) / Test Engineer
Checked By	Stone Gu) / 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
Duty cycle		ANSI C63.10 2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.1.3	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	Power Spectral Density 15.247 (e)		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:	KonnectONE, Inc
Address of Applicant:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A
Manufacturer:	KonnectONE, Inc
Address of Manufacturer:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, 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:	smartphone	smartphone				
Model No.:	m2467					
Trade Mark:	Moxee					
Hardware Version:	J610_6835D4UFM10_G3	0U				
Software Version:	m2467_V01					
Power Supply:	5V					
IMEI:	RF Conducted	IMEI1:354085074901243 IMEI2:354085074901250				
	RSE & AC power line	357916025680198				
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					
rates type.	1M PHY 2M PHY					
Antenna Type:	☐ External, ☒ Integrated	1				
	0.88dBi (Ant7)					
Antenna Gain:	Note:  The antenna gain are derived from the gain information report provided by the manufacturer.					
RF Cable:	1.0dB					

Note: \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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	Operation Frequency of each channel							
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:

Charmer See Delow.	
Channel	Frequency
BLE 1	M:
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz
BLE 2	M:
The Lowest channel(CH1)	2404MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH38)	2478MHz



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#### 3.5 Test Environment

Environment Parameter	96~101 kPa Selected Values During Tests					
Relative Humidity	40-60 % RH Ambient					
Value	Temperature(°C) Voltage(V)					
NTNV	22~25	3.87				
Remark:						

NV: Normal Voltage NT: Normal Temperature

#### 3.6 Description of Support Units

The EUT has been tested as an independent unit.



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#### 4 Test results and Measurement Data

#### 4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

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 Antenna and no consideration of replacement.

The best case gain of the antenna is 0.88dBi (Ant7). \*

\*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. 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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#### 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 = 30	kHz				
Limit:	Francisco (MIII-)	Limit (dl	BuV)			
	Frequency range(MHz)	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 loga	arithm of the frequency.				
Test Procedure:	room.  2) The EUT was connect Impedance Stabilizati impedance. The power connected to a second plane in the same was multiple socket outlet single LISN provided.  3) The tabletop EUT was ground reference plane placed on the horizon.  4) The test was performed the EUT shall be 0.4 evertical ground reference plane. The unit under test and be mounted on top of the the closest points of the and associated equip.  5) In order to find the man and all of the interface.	sturbance voltage test was contend to AC power source throused to AC power source throusen Network) which provides a ser cables of all other units of the LISN 2, which was bonded year the LISN 1 for the unit be strip was used to connect must the rating of the LISN was not applicated upon a non-metallic the. And for floor-standing arranged with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from the LISN 1 was placed 0.8 m from the LISN 1 and the EUT. All of ment was at least 0.8 m from the LISN 1 and the EUT. All of ment was at least 0.8 m from the LISN 1 and the EUT. All of ment was at least 0.8 m from the casimum emission, the relative the cables must be changed as an conducted measurement.	gh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a of exceeded. Table 0.8m above the angement, the EUT was ence plane. The rear of ference plane. The horizontal ground m the boundary of the plane for LISNs s distance was between ther units of the EUT the LISN 2.			



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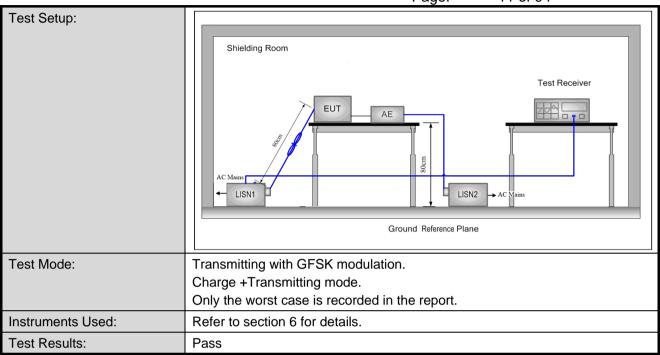
Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: The content of the content

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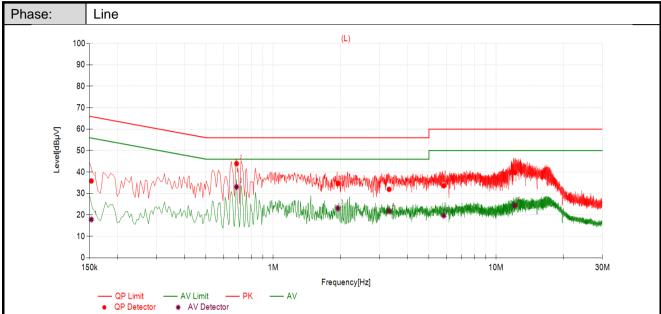
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#### Measurement Data

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.



Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1528	9.86	25.98	35.84	65.84	30.00	8.01	17.87	55.84	37.97	PASS
2	0.6851	9.95	33.99	43.94	56.00	12.06	23.13	33.08	46.00	12.92	PASS
3	1.9512	9.85	24.84	34.69	56.00	21.31	13.23	23.08	46.00	22.92	PASS
4	3.3100	9.85	22.10	31.95	56.00	24.05	11.84	21.69	46.00	24.31	PASS
5	5.8333	9.91	23.69	33.60	60.00	26.40	9.74	19.65	50.00	30.35	PASS
6	12.1548	10.04	29.72	39.76	60.00	20.24	14.36	24.40	50.00	25.60	PASS

#### Remark

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



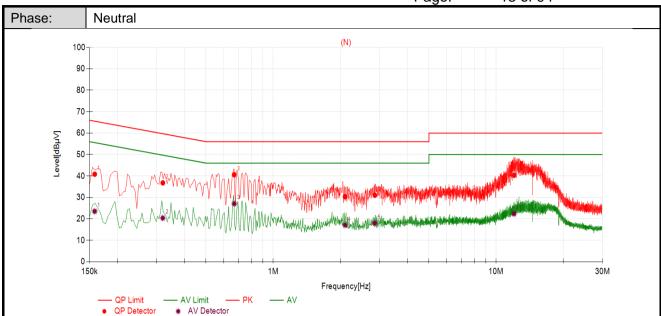
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Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1582	9.78	31.06	40.84	65.56	24.72	13.74	23.52	55.56	32.04	PASS
2	0.3197	9.79	27.01	36.80	59.71	22.91	10.60	20.39	49.71	29.32	PASS
3	0.6686	9.84	30.74	40.58	56.00	15.42	17.23	27.07	46.00	18.93	PASS
4	2.1016	9.87	20.51	30.38	56.00	25.62	7.24	17.11	46.00	28.89	PASS
5	2.8578	9.96	21.07	31.03	56.00	24.97	7.99	17.95	46.00	28.05	PASS
6	12.0509	10.16	30.16	40.32	60.00	19.68	12.23	22.39	50.00	27.61	PASS

#### Remark:

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



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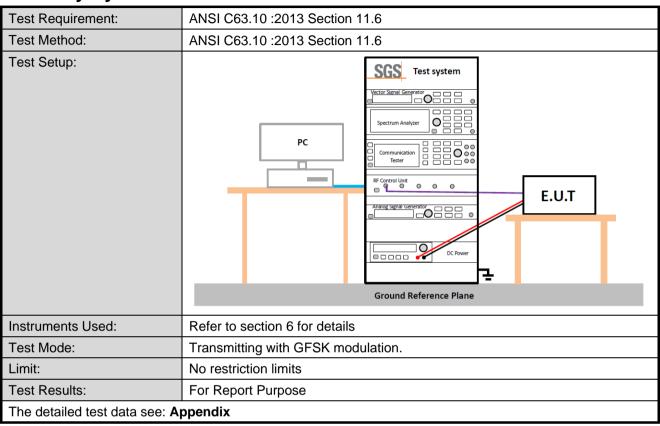
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#### 4.3 Duty Cycle





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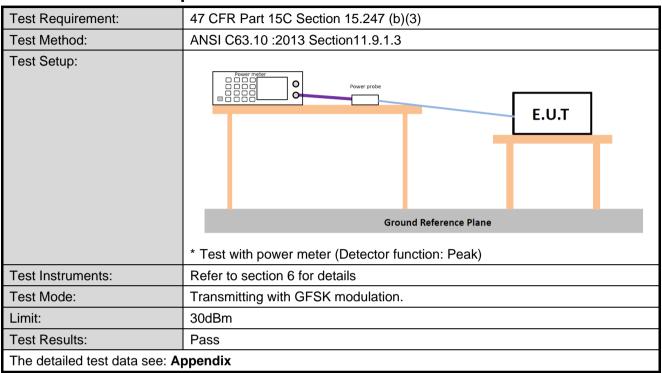
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#### 4.4 Conducted Output Power





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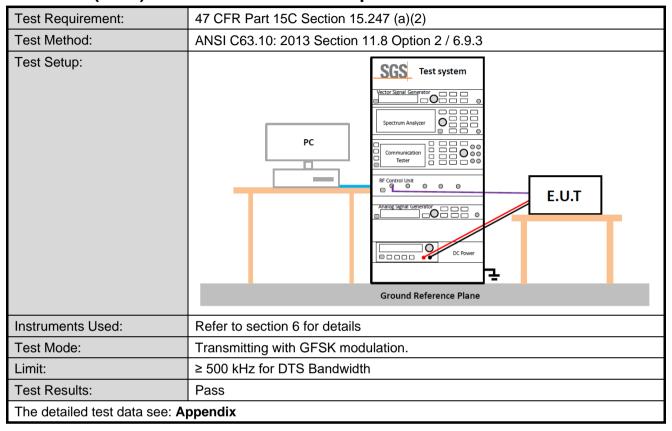
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#### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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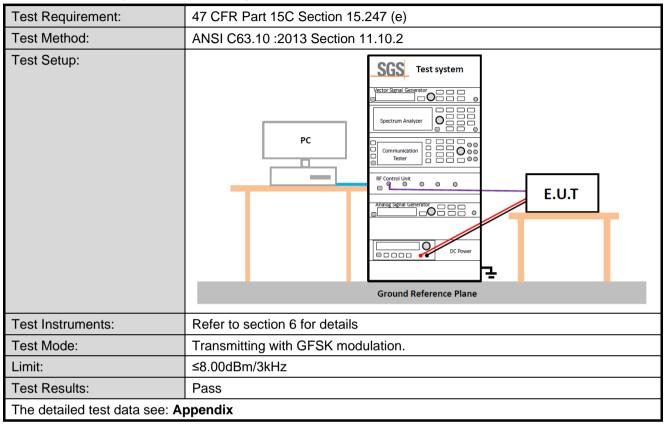
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#### 4.6 Power Spectral Density





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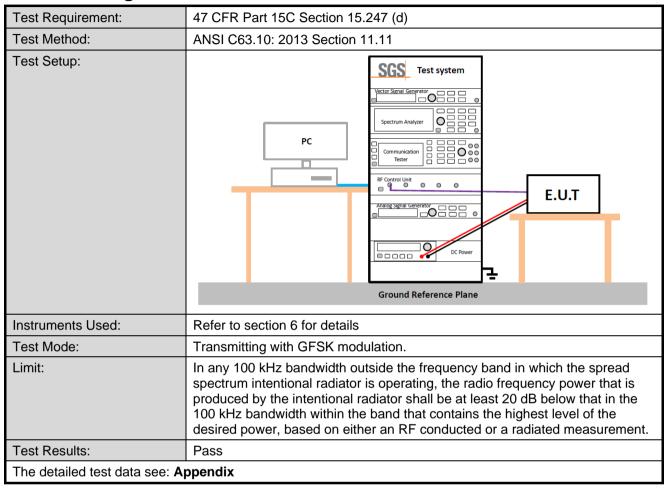
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#### 4.7 Band-edge for RF Conducted Emissions





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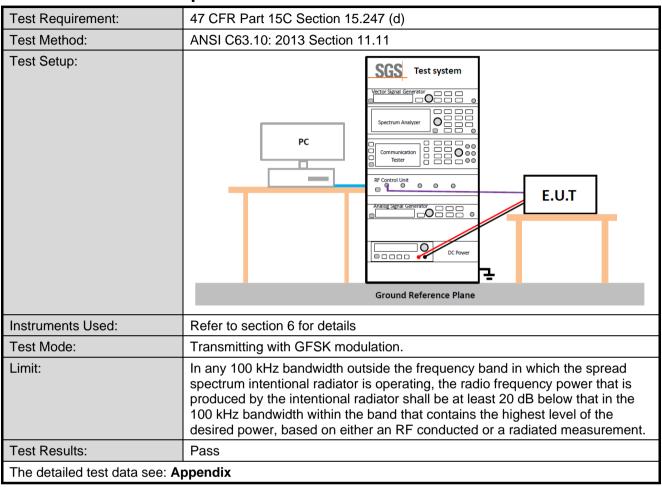
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#### 4.8 RF Conducted Spurious Emissions





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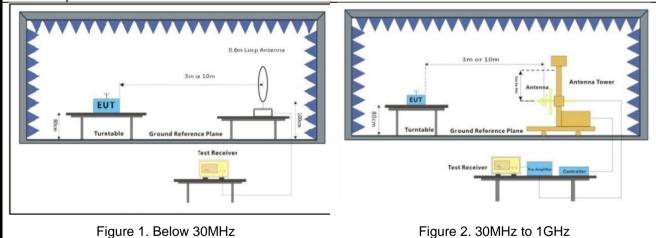
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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Sec	tion 11.12							
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic 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)	-	1	30				
	1.705MHz-30MHz	30	-	1	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),Unles	s otherwise specifi	ed, the limit	on peak radio f	requency				
	emissions is 20dB above	e the maximum pe	rmitted avera	age emission li	mit				
	applicable to the equipmemission level radiated by		is peak limit	applies to the t	otal peak				

#### Test Setup:





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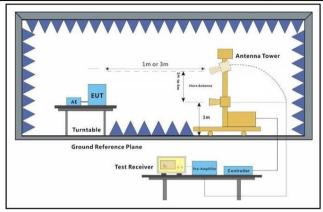


Figure 3. Above 1 GHz

#### Test Procedure:

- a. 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.
- j. 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
- k. 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.
- I. At a measurement distance of 1 meter the limit line was increased by 20\*LOG(3/1) = 9.54 dB.

#### **Test Configuration:**

#### Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak
- Trace mode = max hold



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	Fage. 22 01 94						
	Measurements Below 1000MHz						
	• RBW = 120 kHz						
	• VBW = 300 kHz						
	Detector = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent.						
	<ul> <li>VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum</li> </ul>						
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.						
Exploratory Test	Transmitting with GFSK modulation.						
Mode:	Charge + Transmitting mode.						
Final Test Mode:	Transmitting with GFSK modulation.						
	Pretest the EUT at Charge + Transmitting mode,						
	For below 1GHz part, through pre-scan all channels, but only the worst case is						
	recorded in the report.						
Instruments Used:	Refer to section 6 for details						
Test Results:	Pass						
The detailed test data	see: Appendix						



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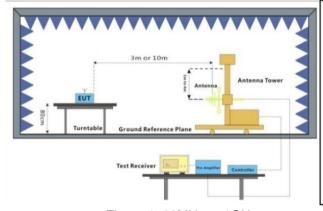
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#### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12								
Test Site:	Measurement Distance: 3m	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							
	Above IGHZ	74.0	Peak Value							

#### Test Setup:



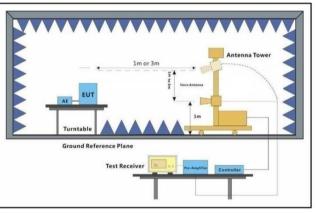


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

#### Test Procedure:

- a. 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit



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	frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and
	modulation for lowest and highest channel
	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 = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent.
	<ul> <li>VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum</li> </ul>
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	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	e: Appendix



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

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.54dB		
2	RF power density, conducted	±1.03dB		
3	Spurious emissions, conducted	±0.54dB		
4	Radio Frequency	±1.0 %		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	±1.0 %		
7	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.6dB (9KHz~30MHz)		
		± 4.9dB (30MHz~1GHz)		
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		

#### Remark:

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

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

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



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6 Equipment List

RF Test Equipment										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)					
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/09	2025/11/08					
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/02/18	2025/02/17					
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR					
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2024/02/04	2025/02/03					
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2024/02/04	2025/02/03					
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/02/04	2025/02/03					
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20					
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2023/11/21	2024/11/20					
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/02/04	2025/02/03					
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20					

CE Test System										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)					
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022/05/14	2025/05/13					
Test receiver	ROHDE& SCHWARZ	ESR	SUWI-01-10-02	2023/08/30	2024/08/29					
Artificial network	ROHDE& SCHWARZ	ENV216	SUWI-01-19-01	2023/06/30	2024/06/29					
Temperature and humidity meter	deli	8838	SEM002-32	2023/07/28	2024/07/27					
Measurement Software	Tonscend	TS+ V4.0.0.0	SUWI-02-02-06	NCR	NCR					
Radio communication analyzer	ROHDE& SCHWARZ	CMW 500	SUWI-01-16-14	2023/08/30	2024/08/29					
Artificial network	ROHDE& SCHWARZ	ENV216	SUWI-01-19-05	2023/06/30	2024/06/29					



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	RSE Test System									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)					
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2023/06/19	2026/06/18					
MXA signal analyzer	Keysight	N9020A	SUWI-01-02-11	2024/02/02	2025/02/01					
Spectrum Analyzer*	ROHDE& SCHWARZ	FSV3044	SUWI-01-05-04	2023/05/15	2024/05/14					
Test receiver	ROHDE& SCHWARZ	ESR	SUWI-01-10-02	2023/08/30	2024/08/29					
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	SUWI-01-11-10	2022/07/28	2024/07/27					
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	SUWI-01-11-11	2022/07/28	2024/07/27					
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	SUWI-01-11-12	2022/07/23	2024/07/22					
Directional antenna rack controller	Max-Full	MF-7802BS	SUWI-03-57-01	NCR	NCR					
High-speed antenna rack controller	Max-Full	MF-7802	SUWI-03-58-01	NCR	NCR					
Filter bank	Tonscend	JS0806-F	SUWI-03-02-04	NCR	NCR					
Filter bank	Tonscend	JS0806s	SUWI-03-02-05	NCR	NCR					
Amplifier*	Tonscend	TAP9K3G32	SUWI-01-14-14	2023/05/15	2024/05/14					
Amplifier	Tonscend	TAP01018048	SUWI-01-14-15	2023/08/30	2024/08/29					
Amplifier	Tonscend	TAP18040048	SUWI-01-14-16	2023/08/30	2024/08/29					
Amplifier	Shanghai Steed	YX28980930	SUWI-01-14-17	2023/08/30	2024/08/29					
Temperature and humidity meter	deli	8838	SEM002-32	2023/07/28	2024/07/27					
Radio communication analyzer	ROHDE& SCHWARZ	CMW 500	SUWI-01-16-14	2023/08/30	2024/08/29					
Measurement Software	Tonscend	TS+ V4.0.0.0	SUWI-02-02-06	NCR	NCR					
Loop Antenna*	Schwarzbeck	FMZB 1519B	SUWI-01-21-02	2022/05/26	2024/05/25					

Remark: NCR=No Calibration Requirement.

\*Note: The RSE were tested in 2024/04/18 to 2024/04/19, so the equipment is not used for testing after 2024/04/19.



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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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**Duty Cycle** 

**Test Result** 

Ant7

	Ant7									
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC			
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)			
		2402	0.384	0.625	61.44	2.12	0.00			
1M	SISO	2440	0.385	0.625	61.60	2.10	0.00			
		2480	0.384	0.625	61.44	2.12	0.00			

Ant7										
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC			
iviode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)			
		2404	0.200	0.625	32.00	4.95	0.00			
2M	SISO	2440	0.200	0.625	32.00	4.95	0.00			
		2478	0.200	0.625	32.00	4.95	0.05			



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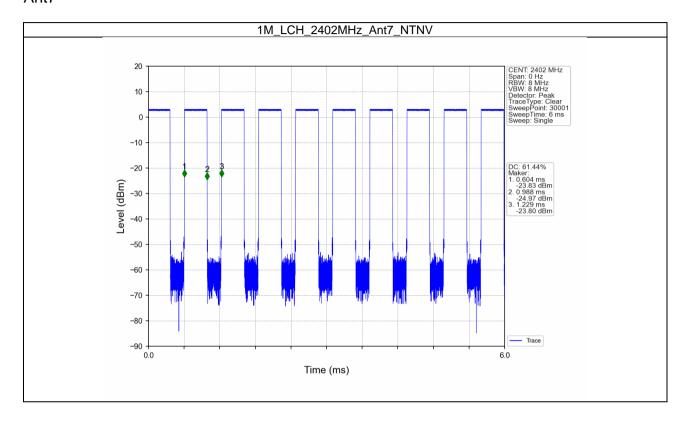
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#### Test Graph

Ant7





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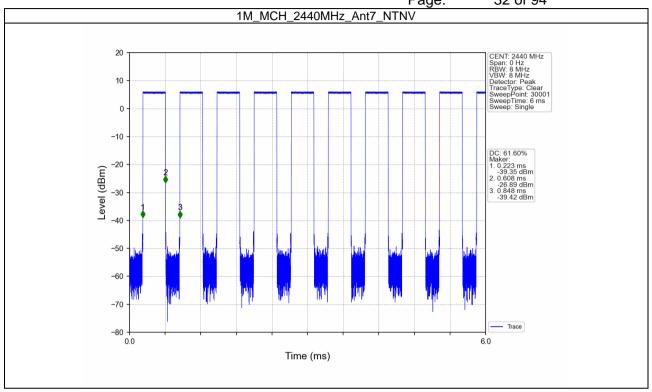
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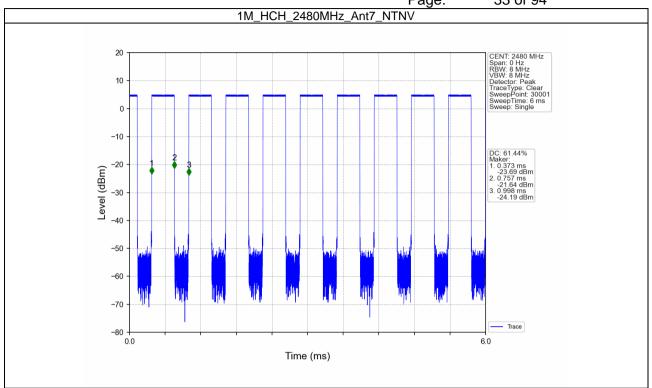
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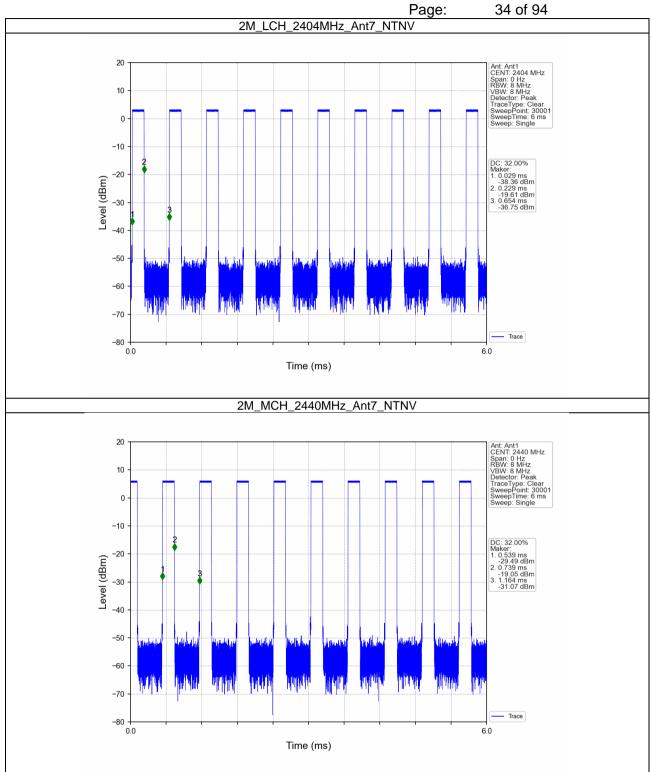
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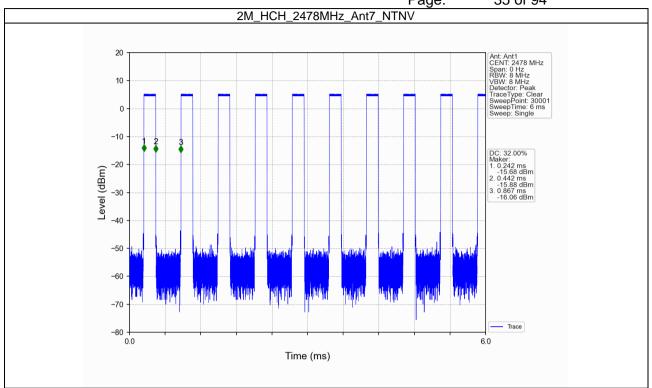
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#### Bandwidth

#### **Test Result**

#### **OBW**

Mode	TX	Frequency	ANT	99% Occupied E	Verdict		
iviode	Type	(MHz)	ANI	Result	Limit	verdict	
		2402	7	1.041	/	Pass	
1M	SISO	2440	7	1.040	/	Pass	
		2480	7	1.040	/	Pass	

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)		Verdict
	Type	(MHz)	ANI	Result	Limit	Verdict
2M	SISO	2404	7	2.076	/	Pass
		2440	7	2.071	/	Pass
		2478	7	2.072	/	Pass

#### 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		\/ordigt
				Result	Limit	Verdict
1M	SISO	2402	7	0.706	>=0.5	Pass
		2440	7	0.700	>=0.5	Pass
		2480	7	0.698	>=0.5	Pass

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict
	Type	(MHz)	AINI	Result	Limit	verdict
2M	SISO	2404	7	1.174	>=0.5	Pass
		2440	7	1.172	>=0.5	Pass
		2478	7	1.170	>=0.5	Pass



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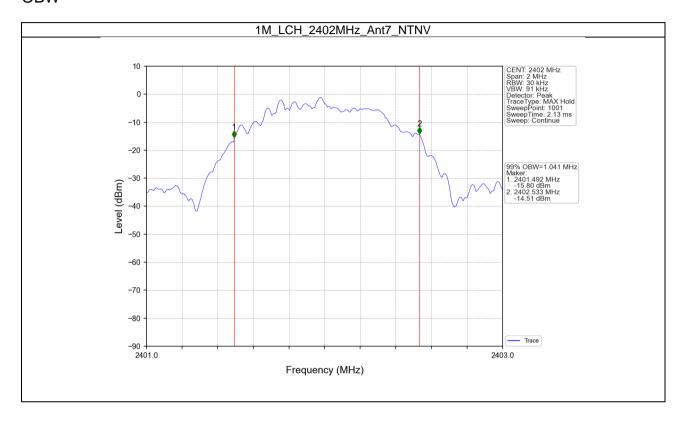
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#### Test Graph

**OBW** 





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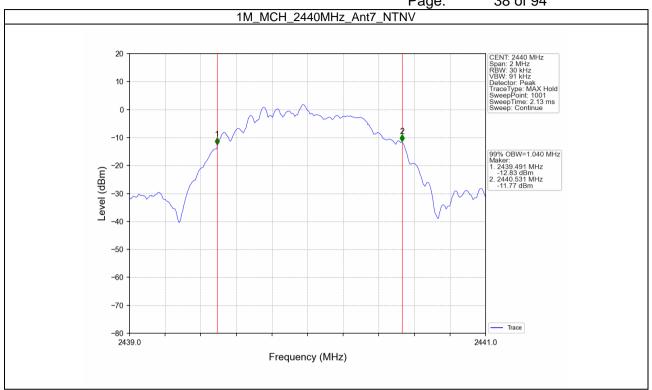
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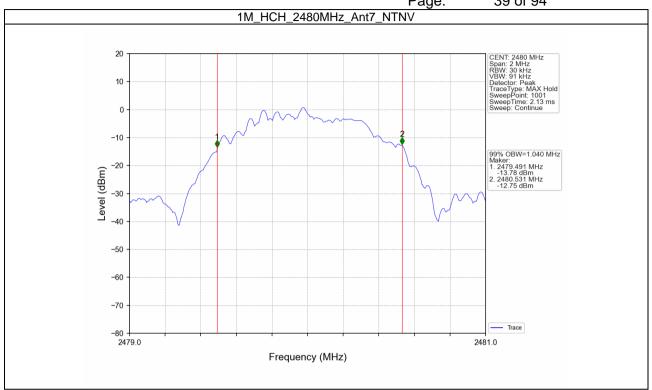
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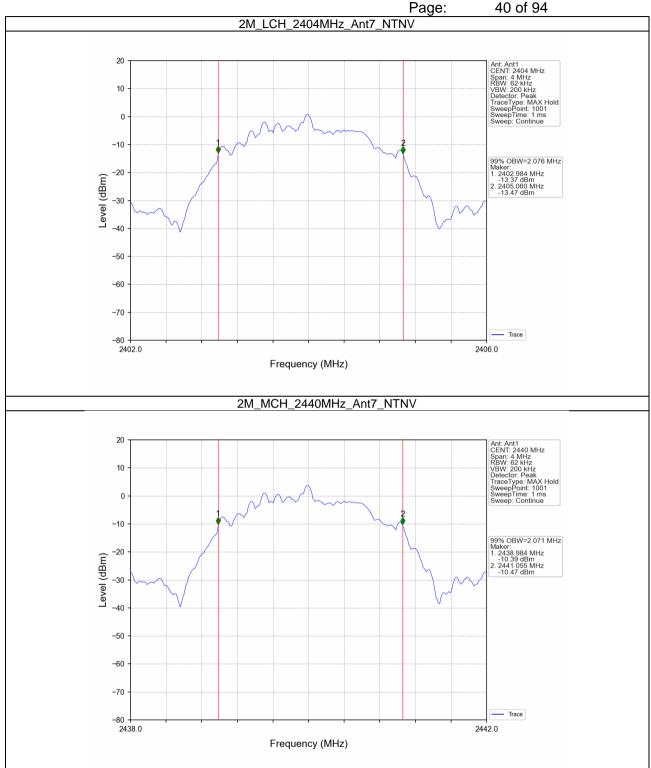
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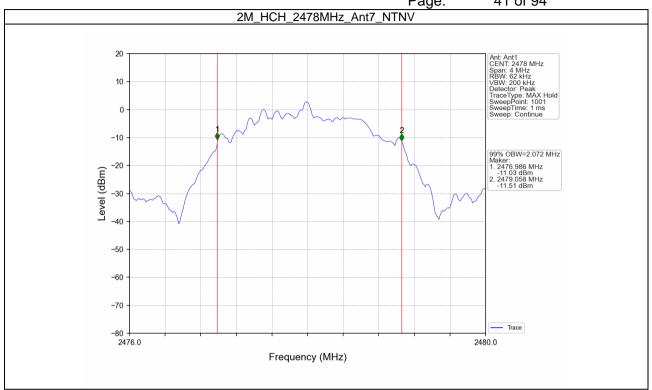
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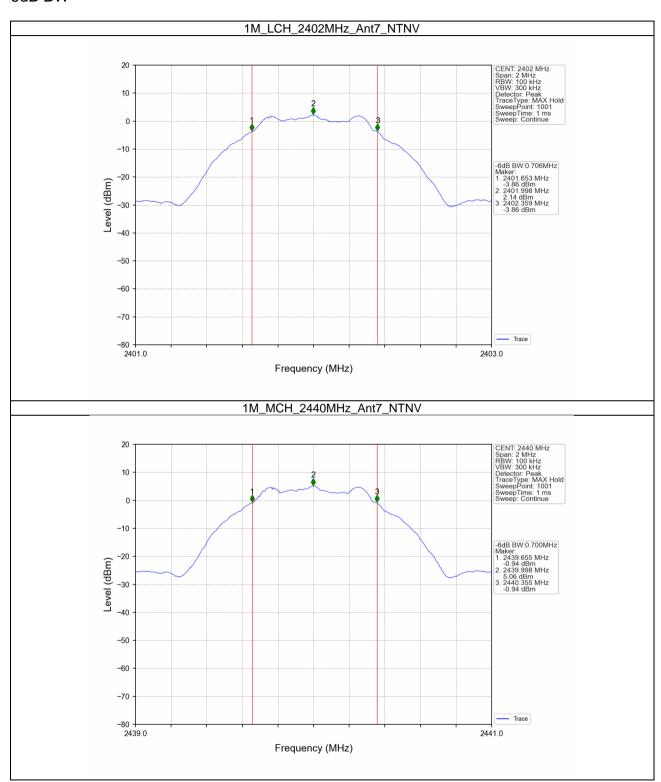


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#### 6dB BW





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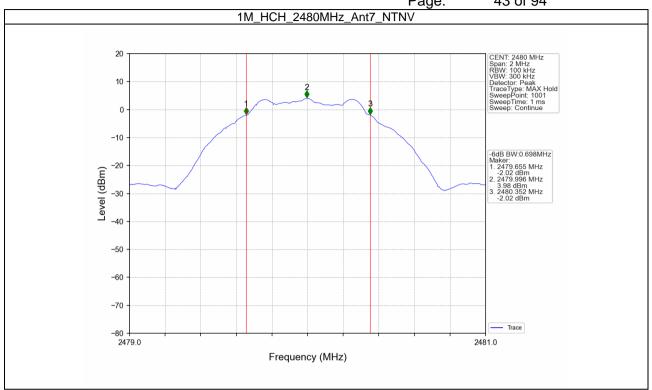
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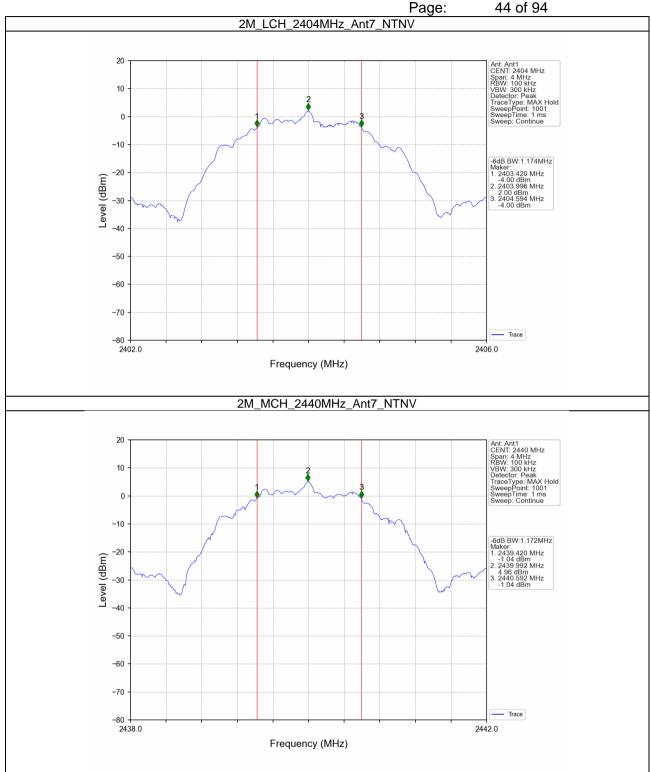
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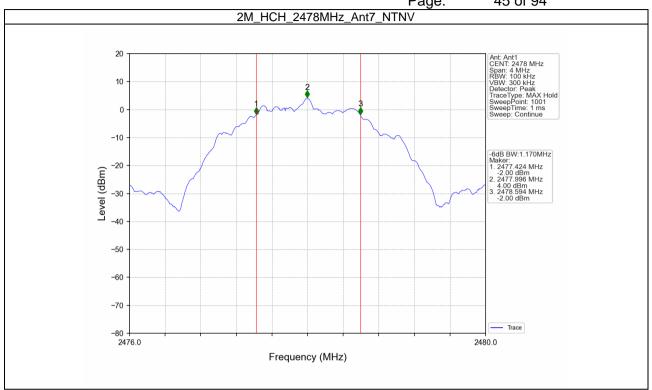
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#### Maximum Conducted Output Power

#### **Test Result**

#### Power

Made TX		Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Vardiet
Mode	Type	(MHz)	ANT7	Limit	Verdict
		2402	4.23	<=30	Pass
1M	SISO	2440	6.65	<=30	Pass
		2480	5.82	<=30	Pass

Mode TX		Frequency	Frequency Maximum Peak Conducted Output Power (dBm)		Verdict
Mode	Type	(MHz)	ANT7	Limit	verdict
		2404	4.21	<=30	Pass
2M	SISO	2440	6.59	<=30	Pass
		2478	5.92	<=30	Pass



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#### Maximum Power Spectral Density

#### **Test Result**

#### **PSD**

Mode	TX	Frequency	Maximum PSI	D (dBm/3kHz)	Verdict	
Mode	Type	(MHz)	ANT7	Limit	Verdict	
		2402	-12.14	<=8	Pass	
1M	SISO	2440	-9.22	<=8	Pass	
		2480	-10.23	<=8	Pass	

Mode	TX Frequency		Maximum PS	Maximum PSD (dBm/3kHz)		
Mode	Type	(MHz)	ANT7	Limit	Verdict	
		2404	-14.31	<=8	Pass	
2M	SISO	2440	-12.47	<=8	Pass	
		2478	-12.32	<=8	Pass	



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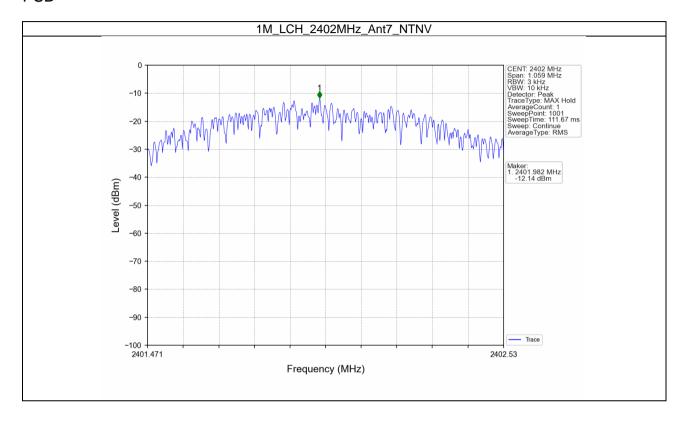
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Test Graph

**PSD** 





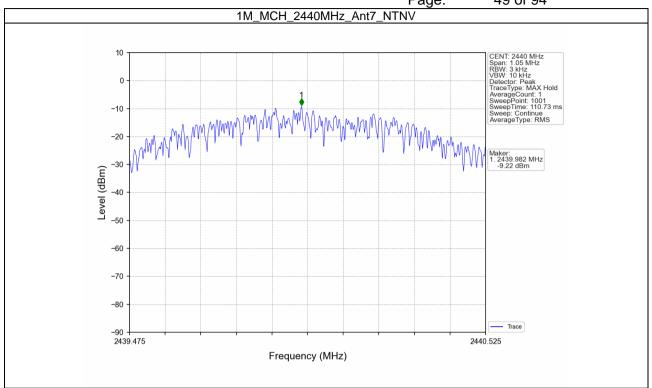
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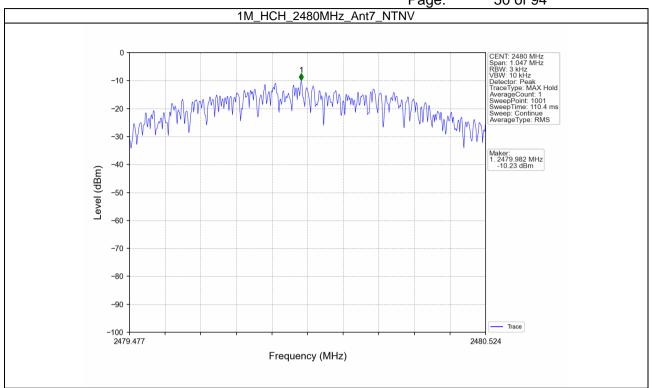
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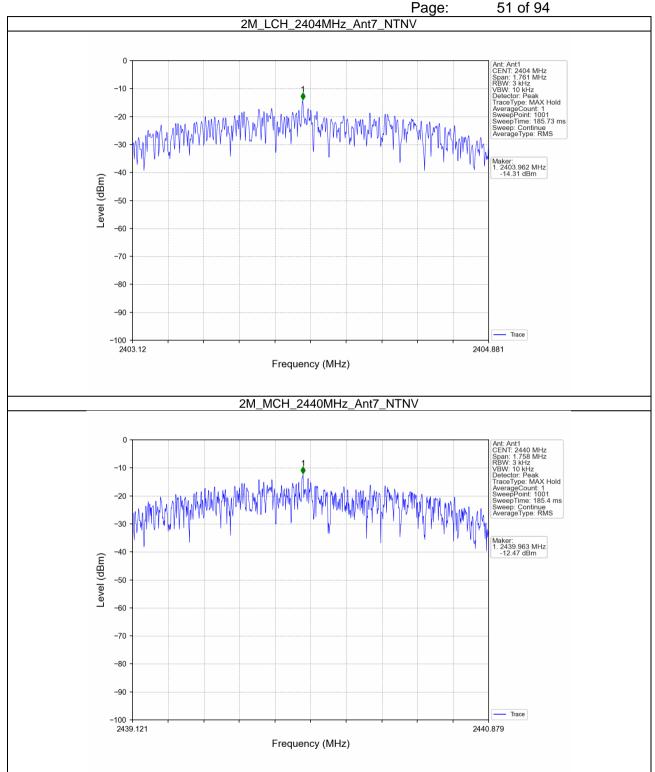
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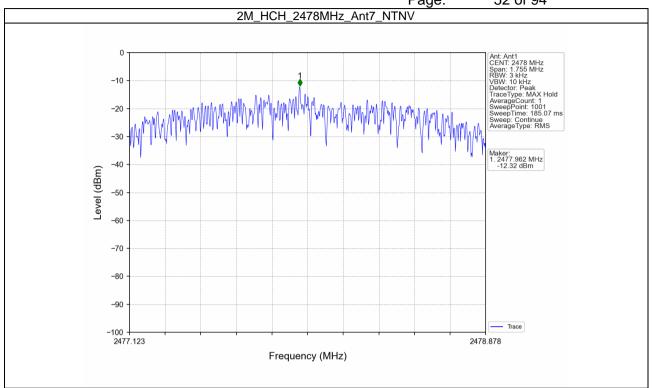
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#### Unwanted Emissions In Non-restricted Frequency Bands

#### **Test Result**

#### Ref

Mode TX Type		Frequency (MHz)	ANT	Level of Reference (dBm)	
		2402	7	-0.58	
1M	SISO	2440	7	1.54	
		2480	7	0.34	

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Mode	Mode TX Type		ANT	Level of Reference (dBm)
		2404	7	1.96
2M	SISO	2440	7	4.93
		2478	7	3.97

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

#### **CSE**

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	7	1.54	-18.46	Pass
1M	SISO	2440	7	1.54	-18.46	Pass
		2480	7	1.54	-18.46	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
	SISO	2404	7	4.93	-15.07	Pass
2M		2440	7	4.93	-15.07	Pass
		2478	7	4.93	-15.07	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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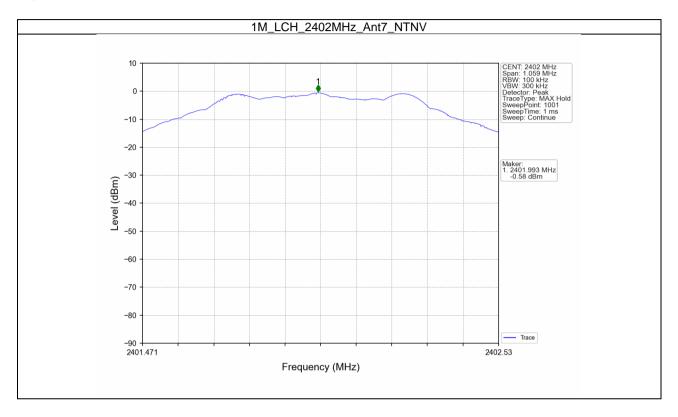
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#### Test Graph

Ref



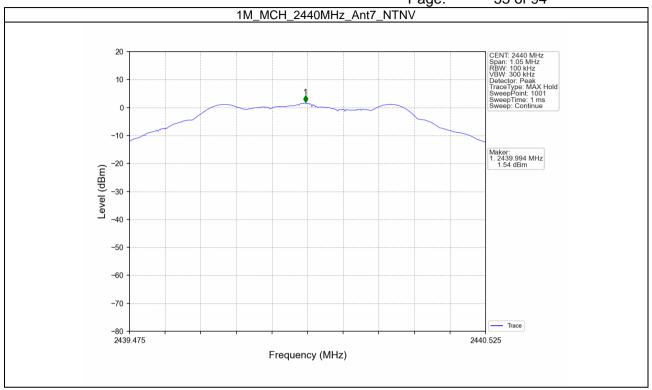


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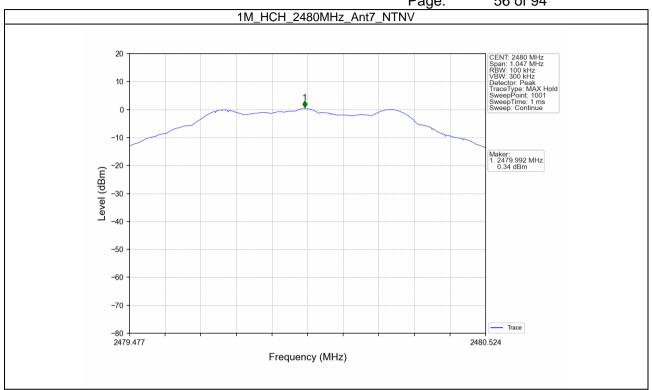
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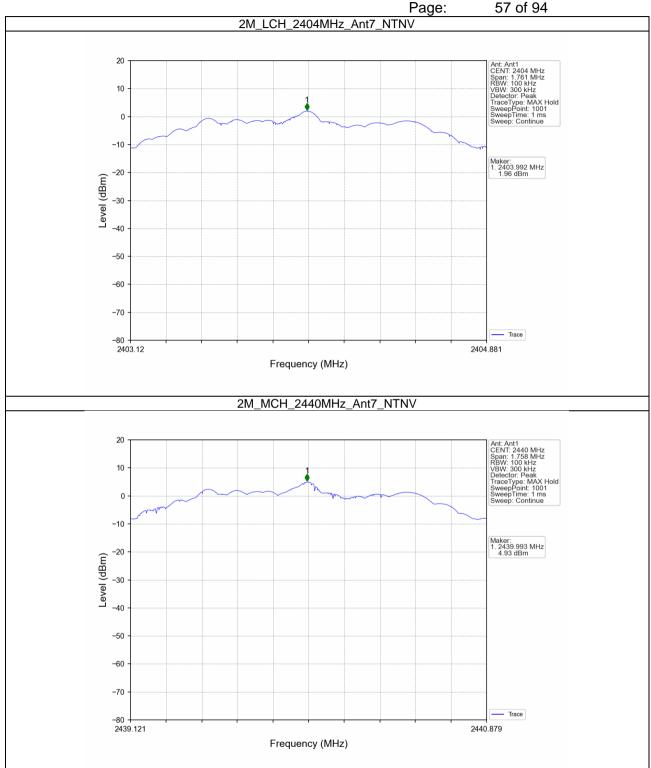
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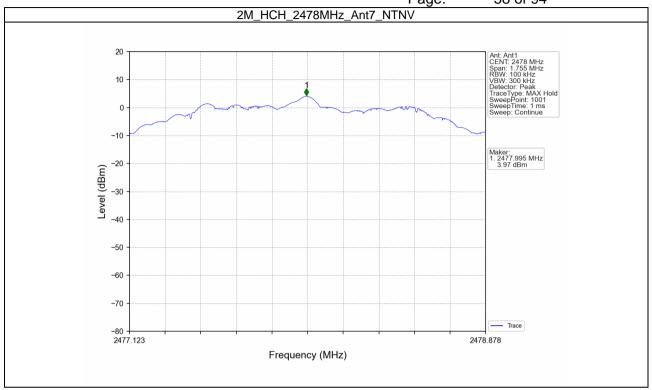
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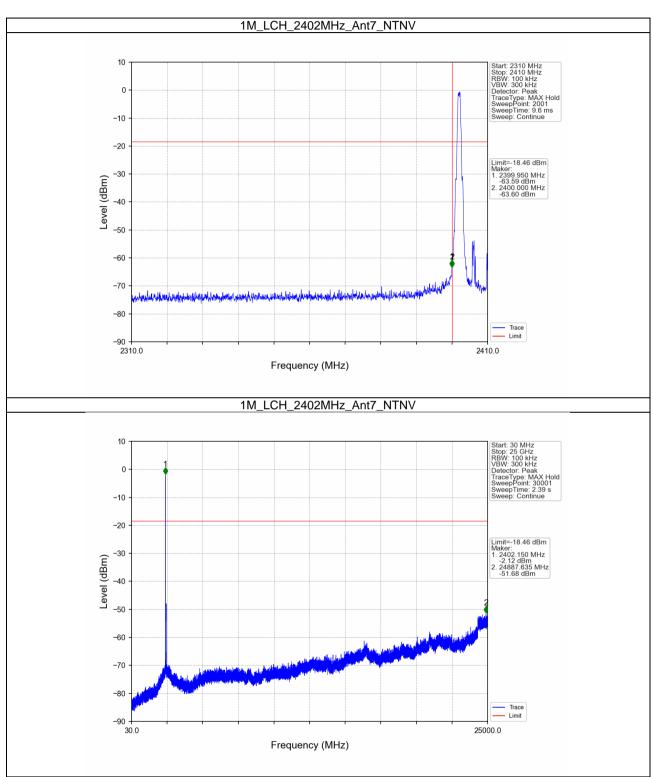


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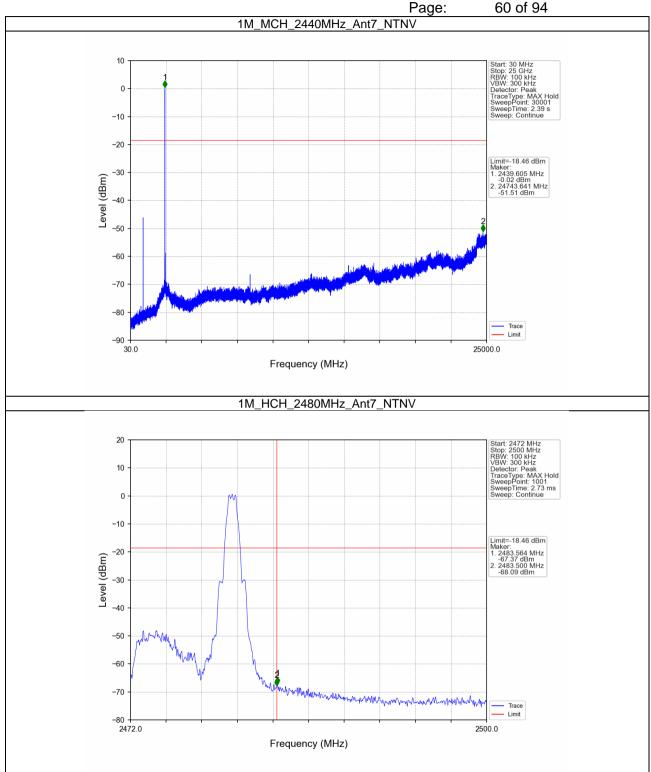
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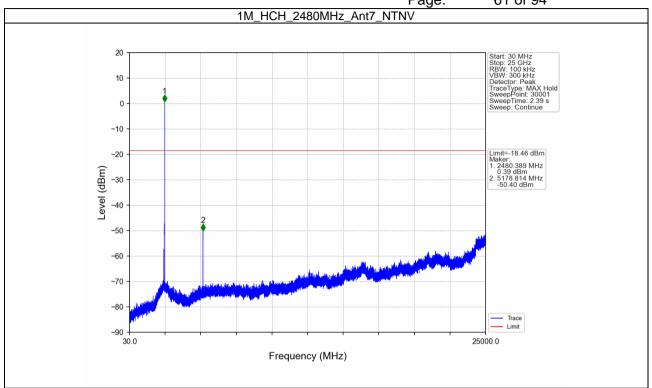
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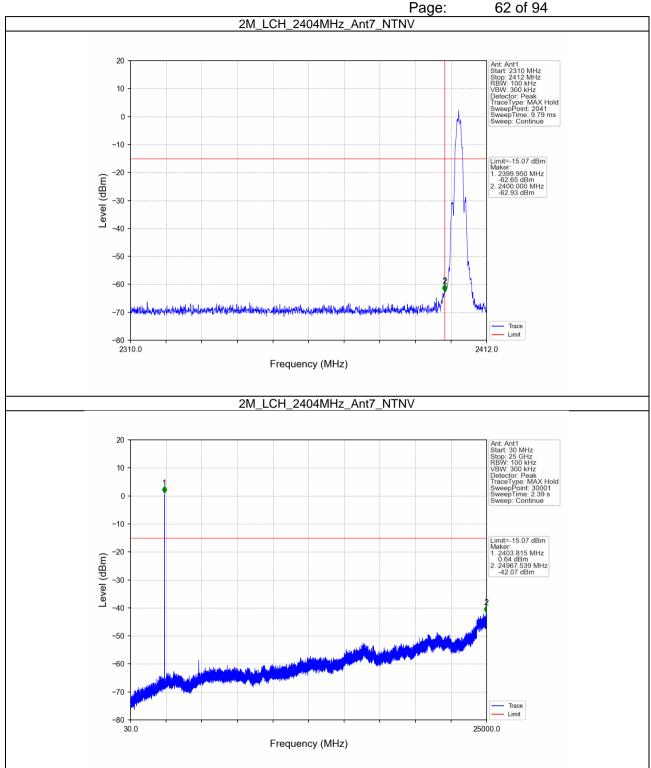
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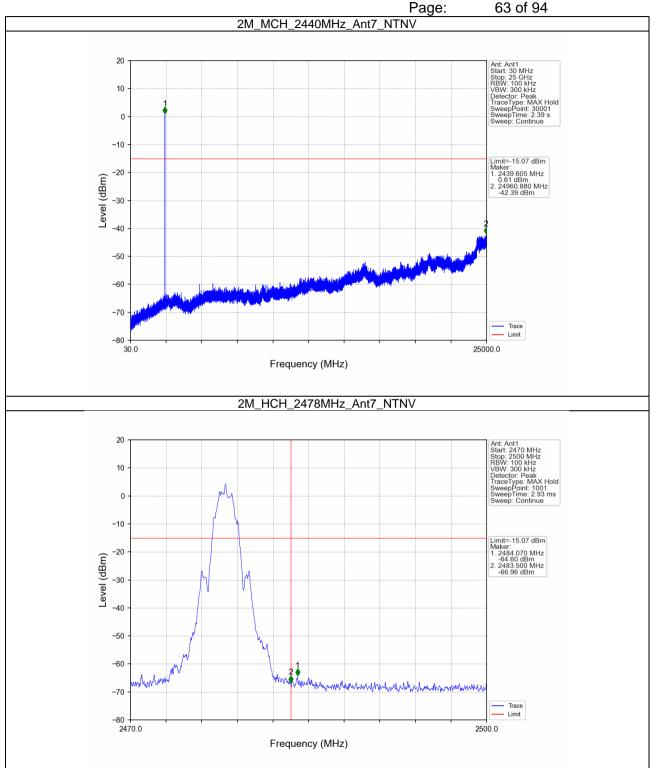
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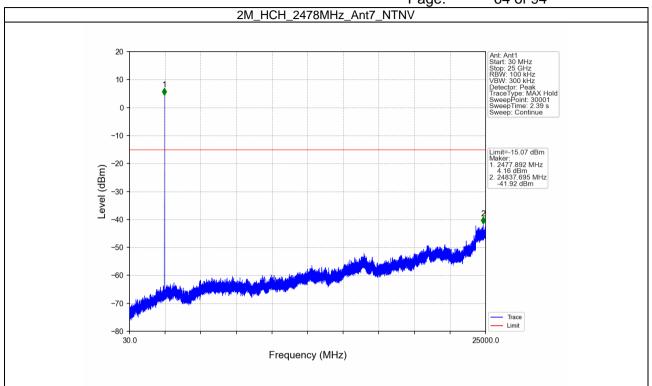
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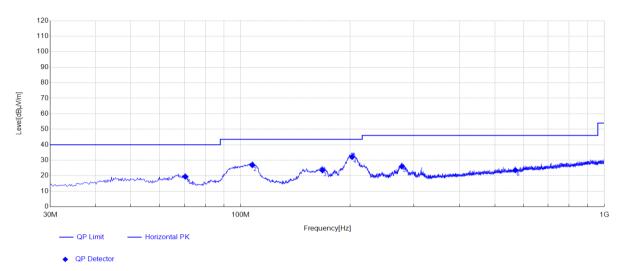
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### **Radiated Spurious Emissions**

#### Radiated emission below 1GHz

Worst case Mode: BLE 1M\_Channel 39



Data Lis	Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBμV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity			
1	70.5541	9.14	-26.83	37.09	19.40	40.00	20.60	Horizontal			
2	107.8096	11.78	-26.67	41.73	26.84	43.50	16.66	Horizontal			
3	167.9616	8.81	-26.22	40.88	23.47	43.50	20.03	Horizontal			
4	202.6945	11.29	-26.21	46.99	32.07	43.50	11.43	Horizontal			
5	277.7876	12.90	-25.54	38.59	25.95	46.00	20.05	Horizontal			
6	569.4279	18.05	-24.15	29.7	23.60	46.00	22.40	Horizontal			



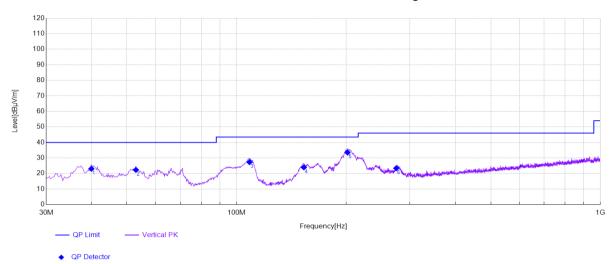
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Data Lis	Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity			
1	39.896	13.07	-27.67	37.64	23.04	40.00	16.96	Vertical			
2	52.8966	14.02	-27.43	35.74	22.33	40.00	17.67	Vertical			
3	108.5857	11.74	-26.61	42.18	27.31	43.50	16.19	Vertical			
4	153.2146	7.61	-26.45	42.81	23.97	43.50	19.53	Vertical			
5	201.9184	11.32	-26.19	48.4	33.53	43.50	9.97	Vertical			
6	274.877	12.89	-25.39	35.88	23.38	46.00	22.62	Vertical			

#### Remark:

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

Value = Reading( $dB\mu V$ ) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

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

Margin = Limit( $dB\mu V/m$ ) – Value( $dB\mu V/m$ )

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



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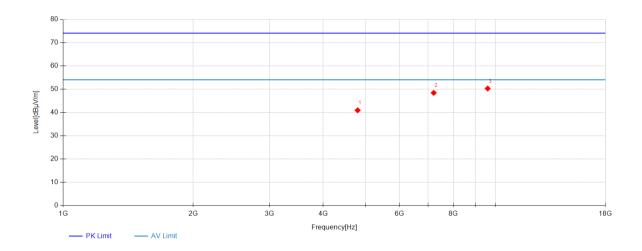


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# Transmitter emission Above 1GHz BLE 1M\_Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4804	52.79	30.78	-42.64	40.93	74.00	33.07	Horizontal		
2	7206	50.08	36.56	-38.24	48.40	74.00	25.60	Horizontal		
3	9608	47.43	37.85	-35.02	50.26	74.00	23.74	Horizontal		



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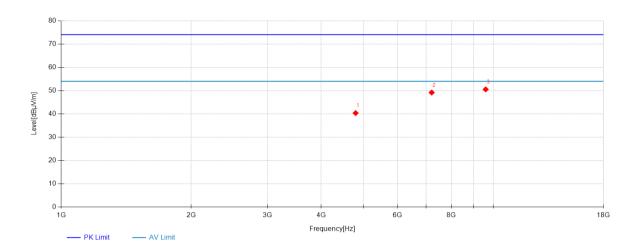


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#### BLE 1M\_Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4804	52.22	30.78	-42.64	40.36	74.00	33.64	Vertical		
2	7206	50.85	36.56	-38.24	49.17	74.00	24.83	Vertical		
3	9608	47.69	37.85	-35.02	50.52	74.00	23.48	Vertical		



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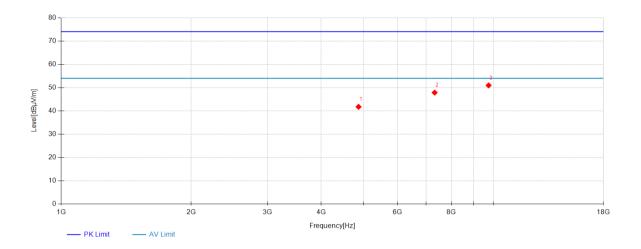


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#### **BLE 1M\_Channel 19**



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4880	53.50	30.78	-42.52	41.76	74.00	32.24	Horizontal	
2	7320	49.74	36.44	-38.32	47.86	74.00	26.14	Horizontal	
3	9760	47.94	38.34	-35.33	50.95	74.00	23.05	Horizontal	



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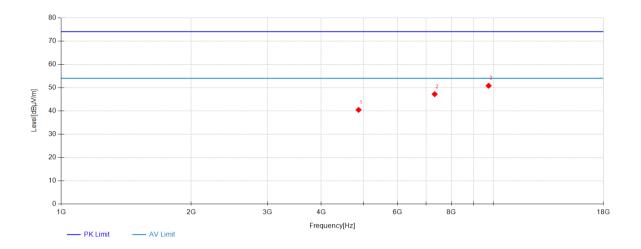


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#### **BLE 1M\_Channel 19**



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4880	52.18	30.78	-42.52	40.44	74.00	33.56	Vertical	
2	7320	49.07	36.44	-38.32	47.19	74.00	26.81	Vertical	
3	9760	47.80	38.34	-35.33	50.81	74.00	23.19	Vertical	



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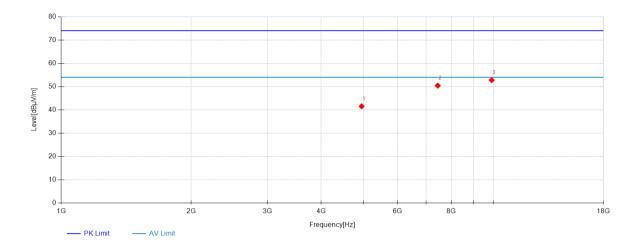


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#### **BLE 1M\_Channel 39**



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4960	52.94	31.04	-42.44	41.54	74.00	32.46	Horizontal	
2	7440	51.43	36.78	-37.77	50.44	74.00	23.56	Horizontal	
3	9920	48.90	38.62	-34.75	52.77	74.00	21.23	Horizontal	



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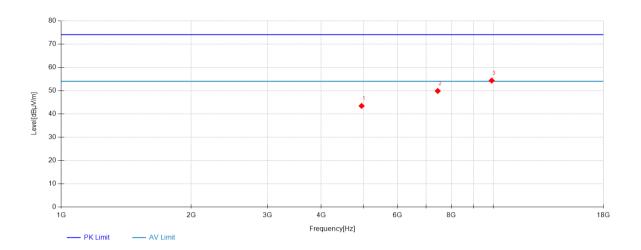


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#### **BLE 1M\_Channel 39**



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4960	54.83	31.04	-42.44	43.43	74.00	30.57	Vertical
2	7440	50.83	36.78	-37.77	49.84	74.00	24.16	Vertical
3	9920	50.44	38.62	-34.75	54.31	74.00	19.69	Vertical



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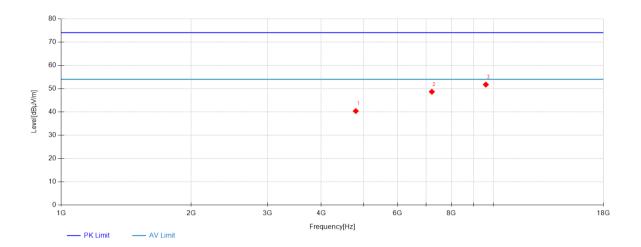


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### BLE 2M\_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4808	52.26	30.77	-42.65	40.38	74.00	33.62	Horizontal			
2	7212	50.39	36.53	-38.28	48.64	74.00	25.36	Horizontal			
3	9616	48.78	37.90	-34.96	51.72	74.00	22.28	Horizontal			



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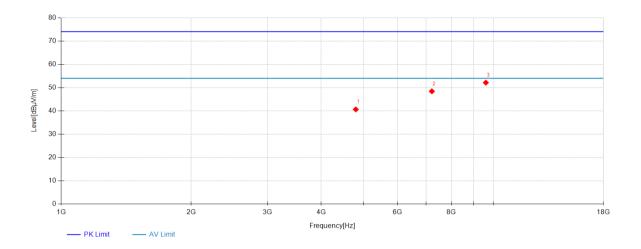


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### BLE 2M\_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4808	52.53	30.77	-42.65	40.65	74.00	33.35	Vertical			
2	7212	50.17	36.53	-38.28	48.42	74.00	25.58	Vertical			
3	9616	49.20	37.90	-34.96	52.14	74.00	21.86	Vertical			



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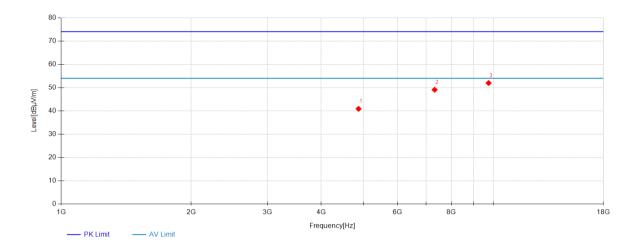


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### **BLE 2M\_Channel 19**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	52.64	30.78	-42.52	40.90	74.00	33.10	Horizontal			
2	7320	50.96	36.44	-38.32	49.08	74.00	24.92	Horizontal			
3	9760	48.95	38.34	-35.33	51.96	74.00	22.04	Horizontal			



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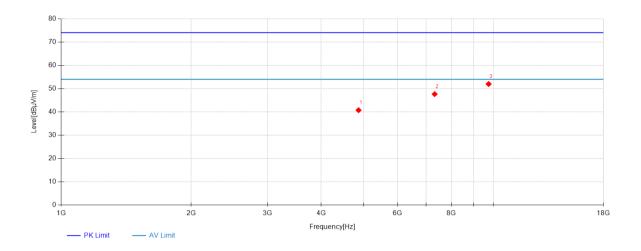


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### **BLE 2M\_Channel 19**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	52.48	30.78	-42.52	40.74	74.00	33.26	Vertical			
2	7320	49.52	36.44	-38.32	47.64	74.00	26.36	Vertical			
3	9760	48.96	38.34	-35.33	51.97	74.00	22.03	Vertical			



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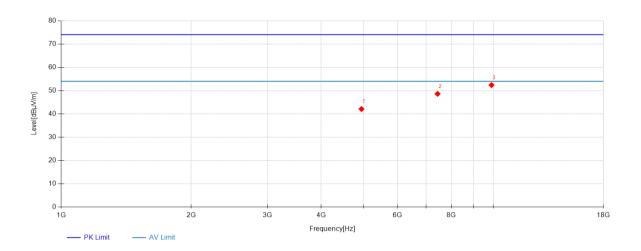


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#### **BLE 2M\_Channel 38**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4956	53.51	31.02	-42.44	42.09	74.00	31.91	Horizontal			
2	7434	49.65	36.77	-37.81	48.61	74.00	25.39	Horizontal			
3	9912	48.53	38.61	-34.78	52.36	74.00	21.64	Horizontal			



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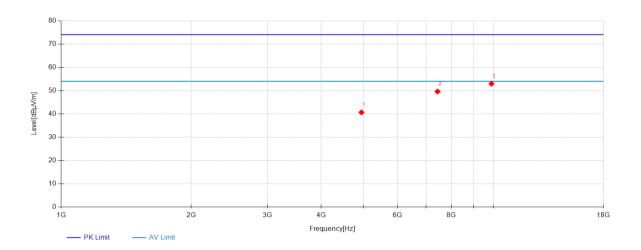
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#### **BLE 2M\_Channel 38**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4956	52.07	31.02	-42.44	40.65	74.00	33.35	Vertical			
2	7434	50.65	36.77	-37.81	49.61	74.00	24.39	Vertical			
3	9912	49.13	38.61	-34.78	52.96	74.00	21.04	Vertical			

#### Remark:

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

Level = Reading( $dB\mu V$ ) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

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

Margin = Limit( $dB\mu V/m$ ) – Level( $dB\mu V/m$ )

- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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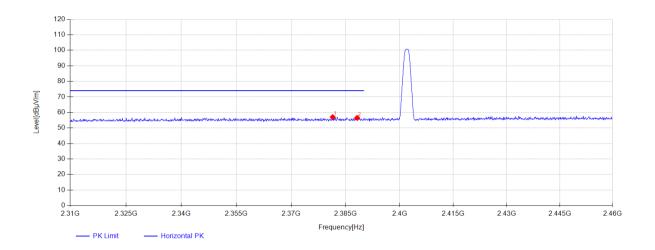
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# Restricted bands around fundamental frequency BLE 1M Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2381.4357	46.82	27.47	-17.29	57.00	74.00	17.00	Horizontal			
2	2388.1891	46.29	27.45	-17.26	56.48	74.00	17.52	Horizontal			



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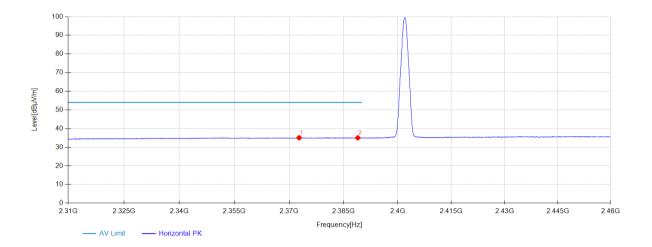


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#### BLE 1M\_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2372.7314	24.88	27.51	-17.32	35.07	54.00	18.93	Horizontal			
2	2388.9395	24.84	27.44	-17.26	35.02	54.00	18.98	Horizontal			



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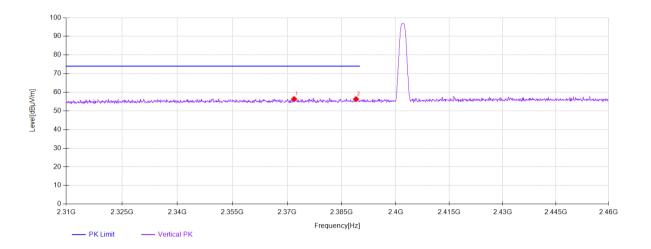


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#### BLE 1M\_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2371.906	46.20	27.51	-17.33	56.38	74.00	17.62	Vertical			
2	2389.0145	46.16	27.44	-17.26	56.34	74.00	17.66	Vertical			



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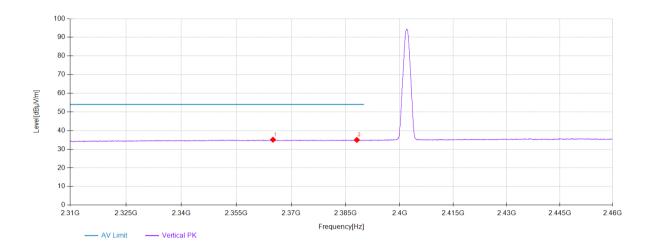


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#### BLE 1M\_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2365.0025	24.92	27.54	-17.36	35.10	54.00	18.90	Vertical			
2	2388.1141	24.78	27.45	-17.26	34.97	54.00	19.03	Vertical			



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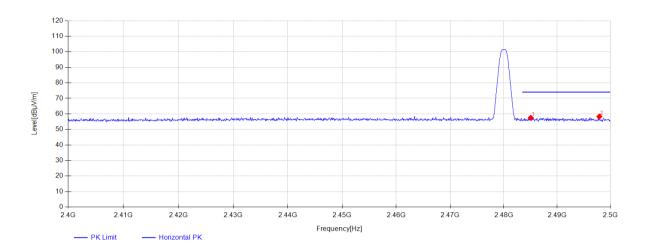


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#### **BLE 1M\_Channel 39**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2485.0425	46.92	27.74	-17.15	57.51	74.00	16.49	Horizontal			
2	2497.8989	47.76	27.79	-17.24	58.31	74.00	15.69	Horizontal			



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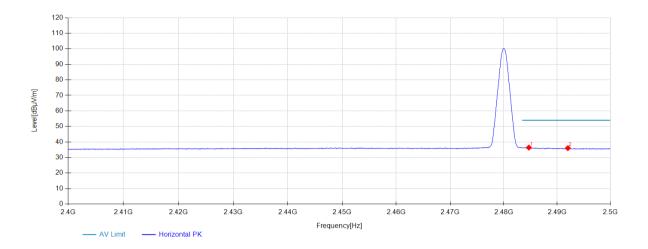


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#### **BLE 1M\_Channel 39**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.6923	25.82	27.74	-17.15	36.41	54.00	17.59	Horizontal			
2	2491.996	25.47	27.77	-17.20	36.04	54.00	17.96	Horizontal			



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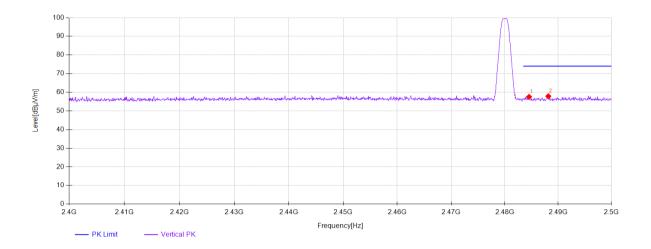


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#### **BLE 1M\_Channel 39**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.5423	46.96	27.74	-17.15	57.55	74.00	16.45	Vertical			
2	2488.1441	47.31	27.75	-17.17	57.89	74.00	16.11	Vertical			



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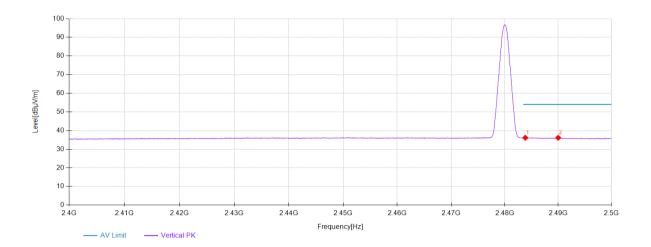


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#### **BLE 1M\_Channel 39**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.8419	25.55	27.74	-17.15	36.14	54.00	17.86	Vertical			
2	2489.995	25.57	27.76	-17.19	36.14	54.00	17.86	Vertical			



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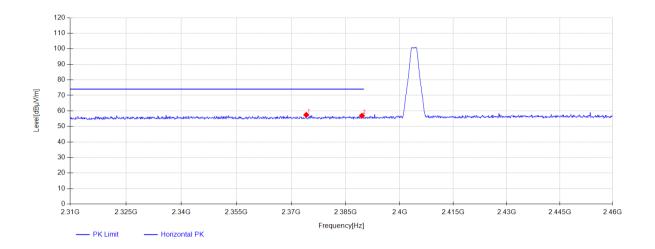


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#### BLE 2M\_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2374.1571	47.27	27.50	-17.32	57.45	74.00	16.55	Horizontal			
2	2389.5398	46.71	27.44	-17.25	56.90	74.00	17.10	Horizontal			



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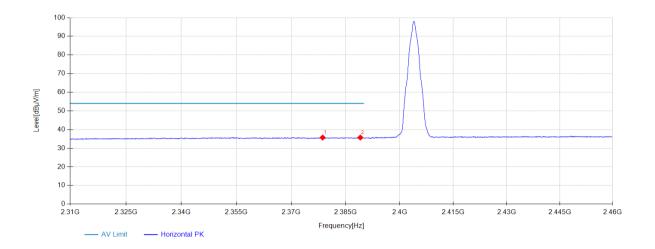


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#### BLE 2M\_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2378.6593	25.52	27.49	-17.30	35.71	54.00	18.29	Horizontal			
2	2389.0895	25.54	27.44	-17.26	35.72	54.00	18.28	Horizontal			



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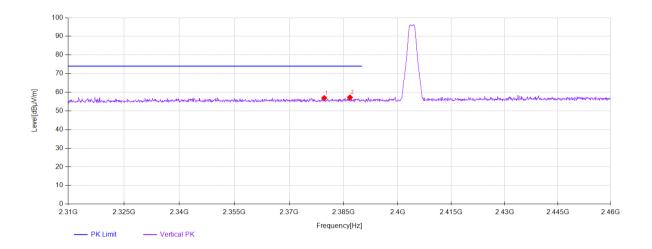


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#### BLE 2M\_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2379.6348	46.75	27.48	-17.30	56.93	74.00	17.07	Vertical			
2	2386.7634	47.09	27.45	-17.27	57.27	74.00	16.73	Vertical			



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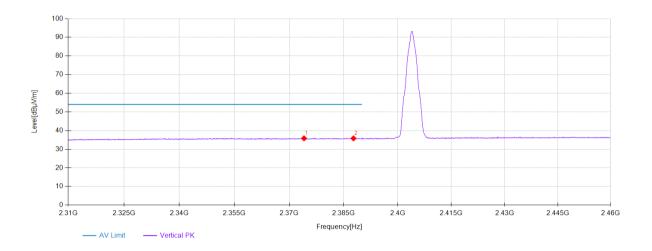


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#### **BLE 2M\_Channel 1**



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	2374.082	25.65	27.50	-17.32	35.83	54.00	18.17	Vertical				
2	2387.7389	25.62	27.45	-17.26	35.81	54.00	18.19	Vertical				



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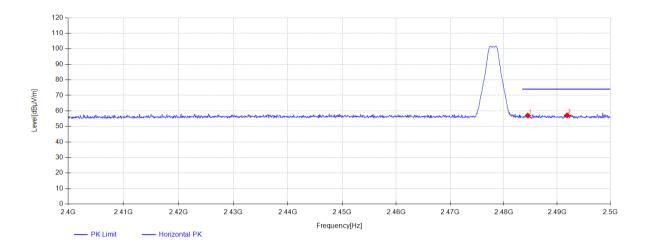


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#### **BLE 2M\_Channel 38**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.4922	46.41	27.74	-17.15	57.00	74.00	17.00	Horizontal			
2	2491.8459	46.55	27.77	-17.20	57.12	74.00	16.88	Horizontal			



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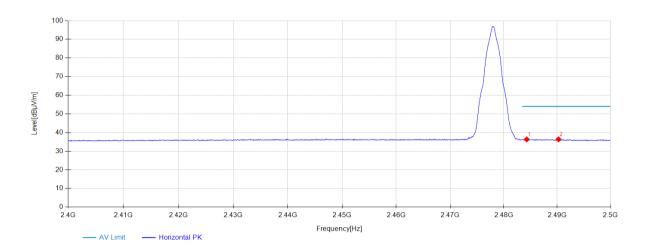


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#### **BLE 2M\_Channel 38**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.2921	25.73	27.74	-17.15	36.32	54.00	17.68	Horizontal			
2	2490.2451	25.77	27.76	-17.19	36.34	54.00	17.66	Horizontal			



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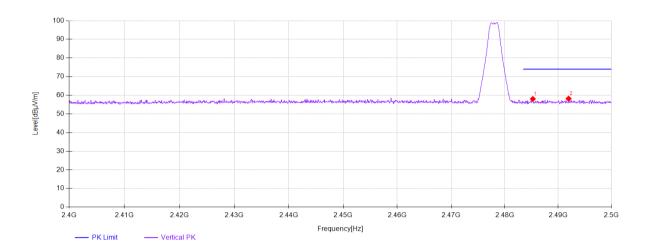


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#### **BLE 2M\_Channel 38**



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2485.2426	47.45	27.74	-17.16	58.03	74.00	15.97	Vertical			
2	2491.946	47.62	27.77	-17.20	58.19	74.00	15.81	Vertical			



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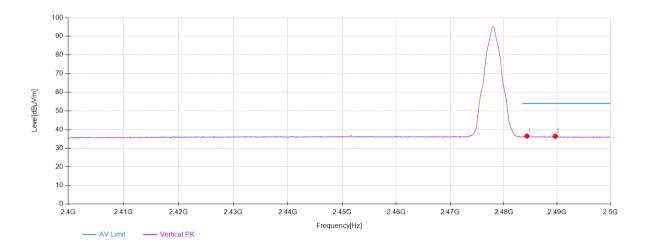
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#### **BLE 2M\_Channel 38**



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	2484.3422	25.93	27.74	-17.15	36.52	54.00	17.48	Vertical				
2	2489.6448	25.83	27.76	-17.18	36.41	54.00	17.59	Vertical				

#### Remark:

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

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

AF = Antenna Factor(dB/m)

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

Margin = Limit( $dB\mu V/m$ ) – Level( $dB\mu V/m$ )

2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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