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TEST REPORT

Test Result :	PASS *
Date of Issue:	2024/01/10
Date of Test:	2023/11/22 to 2024/01/08
Date of Receipt:	2023/11/01
	FCC 47 CFR Part 15, Subpart C
Standards:	FCC 47 CFR Part 2, Subpart J
FCC ID:	2AHPN-TYT25-LT-AA
Trade Mark:	HARMAN
Model No.:	TYT25_LT_AA
EUT Description:	Toyota La-DCM
Address of Manufacturer:	30001, Cabot Drive, Novi, MI 48377, USA
Manufacturer:	Harman International Industries Incorporated
Address of Applicant:	30001, Cabot Drive, Novi, MI 48377, USA
Applicant:	Harman International Industries Incorporated
Application No.:	XEWA2310000073RG

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

Authorized Signature:

Muns chen

Linus Chen Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2024/01/10		Original

Prepared By	leah chen
Checked By	(Leah Chen) / Test Engineer
	(Andy Yao) /Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result	Test Lab*
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	А
Duty cycle		ANSI C63.10-2013 Section 11.6	Clause 4.3	For Report Purpose	В
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2013 Section11.9.1.3	Clause 4.4	PASS	В
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	В
Power Spectral Density	15.247 (e)	ANSI C63.10-2013 Section 11.10.2	Clause 4.6	PASS	В
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2013 Section 11.11	Clause 4.7	PASS	В
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2013 Section 11.11	Clause 4.8	PASS	В
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2013 Section 11.12	Clause 4.9	PASS	А
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2013 Section 11.12	Clause 4.10	PASS	А
Remark*: Lab A SGS-CSTC Standards Tec Lab B Compliance Certification Se		Co., Ltd.			



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3 General Information

3.1 Details of Client

Applicant:	Harman International Industries Incorporated
Address of Applicant:	30001, Cabot Drive, Novi, MI 48377, USA
Manufacturer:	Harman International Industries Incorporated
Address of Manufacturer:	30001, Cabot Drive, Novi, MI 48377, USA

3.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Jacky Xue
Lab B:	
Company:	Compliance Certification Services (Kunshan) Inc.
Address:	No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
Contact Information:	Tel: +86 512 5735 5888 Fax: +86 512 5737 0818
Test engineer:	Hans Han



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3.3 Test Facility

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

Lab A:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC – Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

Lab B:

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

ISED

Compliance Certification Services (Kunshan) Inc.has been recognized by Innovation, Science and Econamic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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EUT Description:	Toyota La-DCM			
· ·	Toyota La-DCM			
Model No.:	TYT25_LT_AA			
Trade Mark:	HARMAN	HARMAN		
Hardware Version:	0.0.3	0.0.3		
Software Version:	TYTLLADCM_R04.5D	TYTLLADCM_R04.5D		
Power Supply:	12V			
	RF Conducted	356590670015700		
IMEI:	RSE & AC power line	356590670015866		
Operation Frequency:	-fc = "Operating 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 V5.0	Bluetooth V5.0		
Modulation Type:	GFSK			
Number of Channel:	40			
Detec Turet	Provided by client	⊠Provided by client		
Rates Type*:	1M PHY			
Antenna Type:	🗌 External, 🖂 Integrated	1		
	2.92 dBi(Ant2)	2.92 dBi(Ant2)		
Antenna Gain:	Note: The antenna gain are der by the manufacturer.	ved from the gain information report provided		
RF Cable:	1.0dB			
		, the client relevant results or conclusions of this		

3.4 General Description of EUT

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

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

Remark:

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

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



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3.5 Test Environment

Environment Parameter	96.0~101.0 kPa Selected Values During Tests		
Relative Humidity	40-60 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~25	12	
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 I	be designed to ensure that no antenna other than that furnished by the
responsible party shall be us	sed 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 ca	n be replaced by the user, but the use of a standard antenna jack or
electrical connector is prohib	bited.
15.247(b) (4) requireent:	
The conducted output power	r limit specified in paragraph (b) of this section is based on the use of
antennas with directional ga	ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this
section, if transmitting anten	nas of directional gain greater than 6 dBi are used, the conducted output
power from the intentional ra	adiator shall be reduced below the stated values in paragraphs (b)(1),
(b)(2), and (b)(3) of this sect	ion, as appropriate, by the amount in dB that the directional gain of the
antenna exceeds 6 dBi.	
The antenna is Integrated A	ntenna and no consideration of replacement.
The best sees we're of the se	itenna is 2.92 dBi(Ant2).*

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Sectio	n 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:	Limit (dBuV)			
	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 log	arithm of the frequency.		
Test Procedure:	 room. 2) The EUT was connect Impedance Stabilizati impedance. The pow connected to a secon plane in the same way multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plan placed on the horizon 4) The test was performed the EUT shall be 0.4 vertical ground reference 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 may and all of the interface 	sturbance voltage test was contend to AC power source throut ion Network) which provides a er cables of all other units of the ad LISN 2, which was bonded by as the LISN 1 for the unit bout strip was used to connect muture the rating of the LISN was not splaced upon a non-metallic to ne. And for floor-standing arrant and ground reference plane. ed with a vertical ground reference ince plane was bonded to the LISN 1 was placed 0.8 m from onded to a ground reference plane. This the LISN 1 and the EUT. All o boment was at least 0.8 m from aximum emission, the relative ce cables must be changed action in conducted measurement.	gh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a bt 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 blane for LISNs is distance was between ther units of the EUT the LISN 2.	



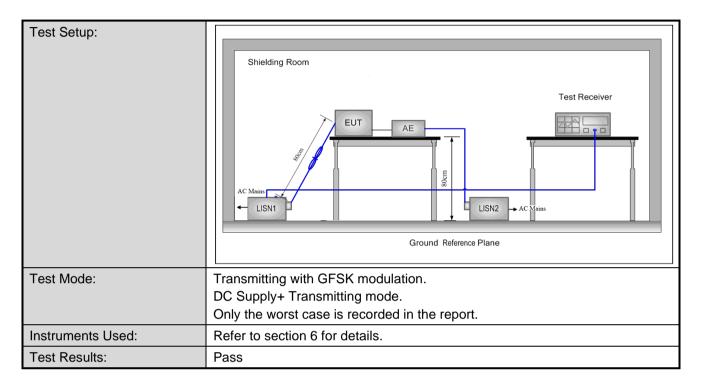
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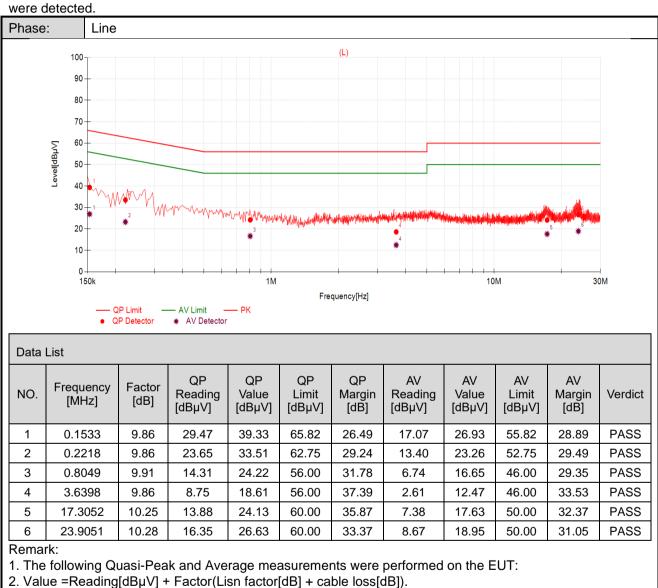
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Measurement Data

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



3. Margin = Limit[dB μ V] – Value[dB μ V]



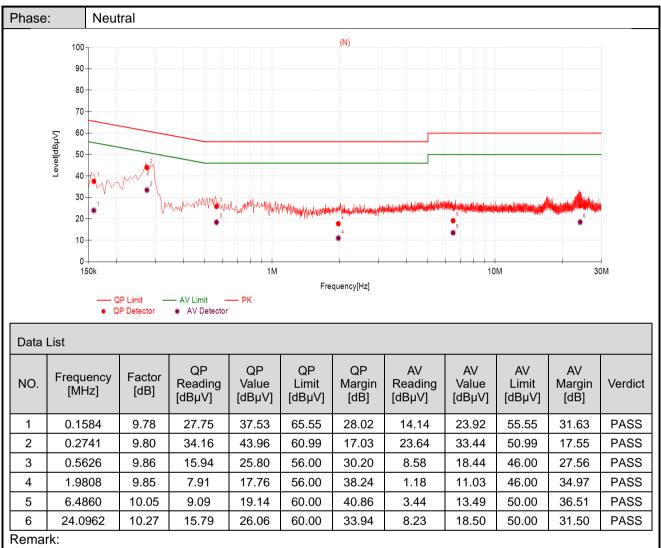
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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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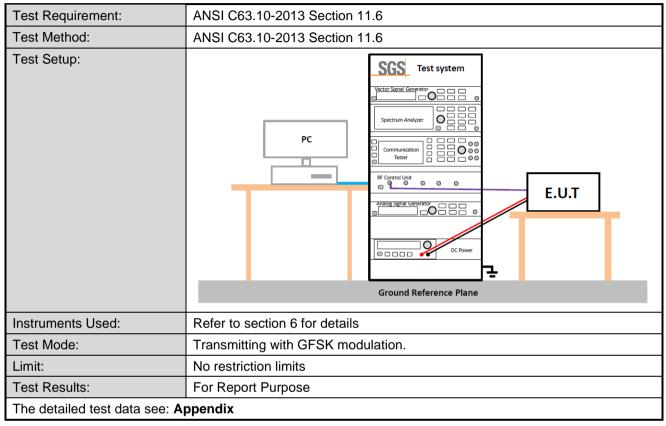
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4.3 Duty Cycle





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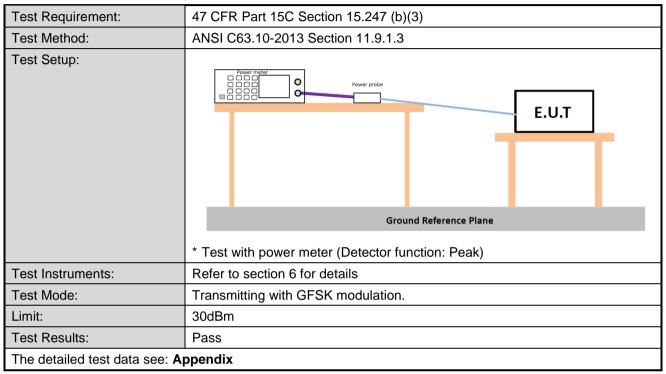
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4.4 Conducted Output Power





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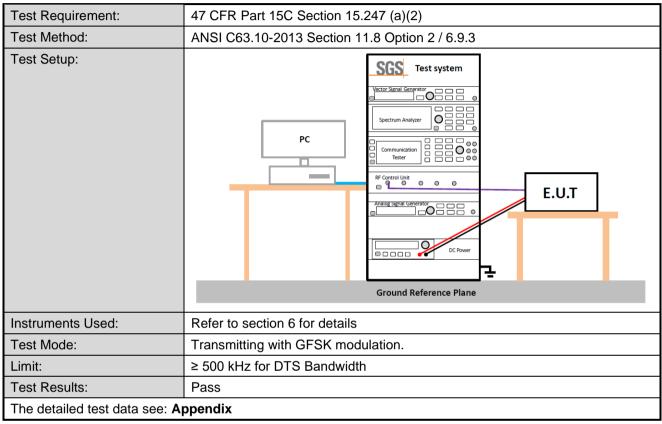
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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Test Requirement: 47 CFR Part 15C Section 15.247 (e) **Test Method:** ANSI C63.10-2013 Section 11.10.2 Test Setup: SGS Test system 0 PC 000 ion 9 rol Unit 0 0 0 _ E.U.T Analog Signal Gene DC Pov 그 Ground Reference Plane **Test Instruments:** Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. Limit: ≤8.00dBm/3kHz **Test Results:** Pass The detailed test data see: Appendix

4.6 Power Spectral Density



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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:	PC PC Communication FF Control Unit FF Control Unit Communication FF Control Unit FF Control FF		
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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Test Requirement: 47 CFR Part 15C Section 15.247 (d) **Test Method:** ANSI C63.10-2013 Section 11.11 Test Setup: SGS Test system lector Signal Generat \cap PC RF Control Unit 0 0 0 E.U.T Analog Signal Gen DC Powe Ground Reference Plane Instruments Used: Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Test Results: Pass The detailed test data see: Appendix

4.8 **RF Conducted Spurious Emissions**



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4.9 Radiated Spurious Emissions

Figure 1. Below 30MHz

	•						
Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10-2013 Sect	ion 11.12					
Test Site:	Measurement Distance:	3m (Semi-Anecho	oic 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	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:							
Test Setup:							

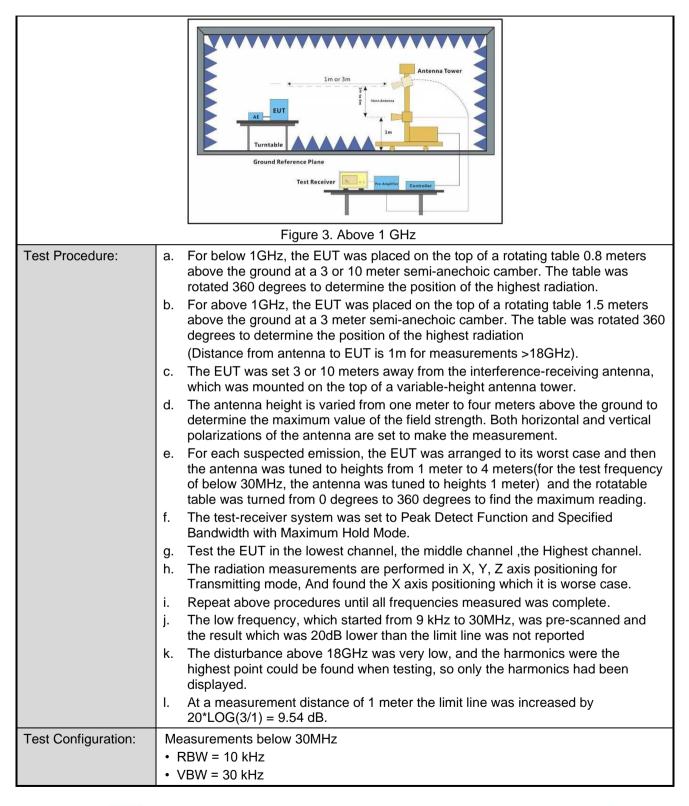
Figure 2. 30MHz to 1GHz



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	 Detector = Peak & Average & Quasi-peak
	 Trace mode = max hold
	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.
	• VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its
	maximum power control level for the tested mode of operation.
Exploratory Test	Transmitting with GFSK modulation.
Mode:	DC Supply+ Transmitting mode.
	Transmitting with GFSK modulation.
Final Test Mode:	Pretest the EUT at DC Supply+ Transmitting mode,
Final Test 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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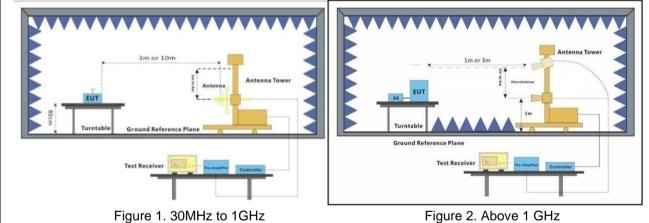
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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	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	(Semi-Anechoic Cham	iber)			
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			
	ADOVE IGHZ	74.0	Peak Value			

Test Setup:



g		
Test Procedure:	above the g	GHz, the EUT was placed on the top of a rotating table 0.8 meters round at a 3 or 10 meter semi-anechoic camber. The table was degrees to determine the position of the highest radiation.
	meters abov	GHz, the EUT was placed on the top of a rotating table 1.5 ve the ground at a 3 meter semi-anechoic camber. The table was degrees to determine the position of the highest radiation.
		as set 3 or 10 meters away from the interference-receiving ich was mounted on the top of a variable-height antenna tower.
	to determine	a height is varied from one meter to four meters above the ground the maximum value of the field strength. Both horizontal and rizations of the antenna are set to make the measurement.
	then the ant	spected emission, the EUT was arranged to its worst case and enna was tuned to heights from 1 meter to 4 meters and the ole was turned from 0 degrees to 360 degrees to find the eading.
	f. The test-rec	eiver system was set to Peak Detect Function and Specified



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	 Bandwidth with Maximum Hold Mode. g. 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 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 \ge 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. • VBW \ge 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. DC Supply+ Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at DC Supply+ 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)

Lab A:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.6dB (9KHz to 30MHz)
		± 4.9dB (30MHz to 1GHz)
2	Radiated Emission	± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)
	•	L

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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.

Lab B:

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸ GHz
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
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

Lab A:

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2023/08/30	2024/08/29
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29

Remark: NCR=No Calibration Requirement



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RSE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d d)	Cal.Due date (yyyy/mm/d d)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08	
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15	
Spectrum Analyzer	ROHDE&SCH WARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14	
Test receiver	ROHDE&SCH WARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29	
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27	
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27	
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22	
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR	
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR	
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR	
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR	
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29	
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03	
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-07	2023/08/30	2024/08/29	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR	
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25	

Remark: NCR=No Calibration Requirement



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Lab B:

RF Test Equipment							
Test Equipment			Model No. Inventory No.		Cal.Due date (yyyy/mm/dd)		
Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	2023/08/24	2024/08/23		
Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	2023/08/24	2024/08/23		
Spectrum Analyzer	Keysight	N9030B	KSEM021-1	2023/02/03	2024/02/02		
Signal Generator	R&S	SMBV100B	KSEM032	2023/03/16	2024/03/15		
Signal Generator	R&S	SMW200A	KSEM020-1	2023/08/24	2024/08/23		
Signal Generator	Agilent	N5182A	KUS2001M001-1	2023/08/24	2024/08/23		
Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	2023/08/24	2024/08/23		
Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	2023/03/16	2024/03/15		
Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	2023/08/24	2024/08/23		
Switcher	CCSRF	FY562	KUS2001M001-3	2023/08/24	2024/08/23		
AC Power Source	EXTECH	6605	KS301178	NCR	NCR		
DC Power Supply	Aglient	E3632A	KS301180	NCR	NCR		
Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	2023/02/03	2024/02/02		
Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	2023/08/24	2024/08/23		
Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	2023/03/22	2024/03/21		
Software	BST	TST-PASS	/	NCR	NCR		

Remark: NCR=No Calibration Requirement



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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

Ant2							
Mode	ΤX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
T	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		2402	0.418	0.625	66.88	1.75	0.00
1M S	SISO	2440	0.418	0.625	66.88	1.75	0.03
		2480	0.418	0.625	66.88	1.75	0.00

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.418	0.625	66.88	2.39234	2.7KHz



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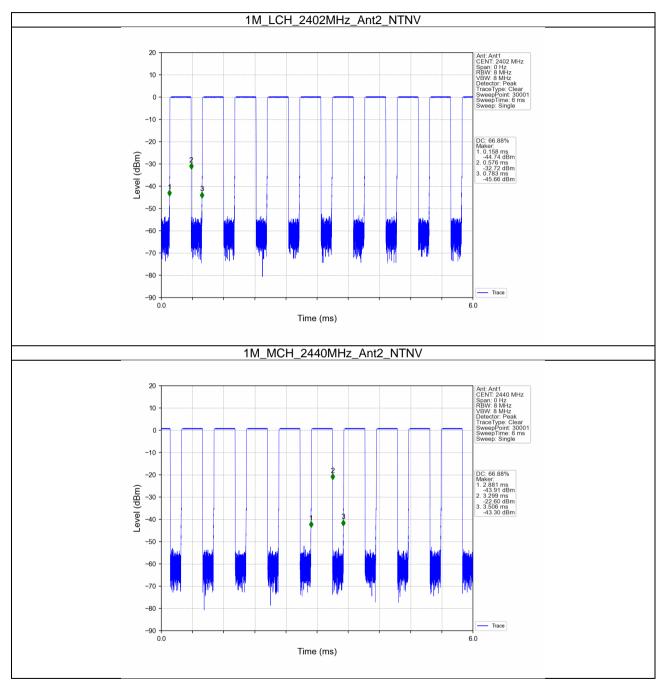
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Test Graphs

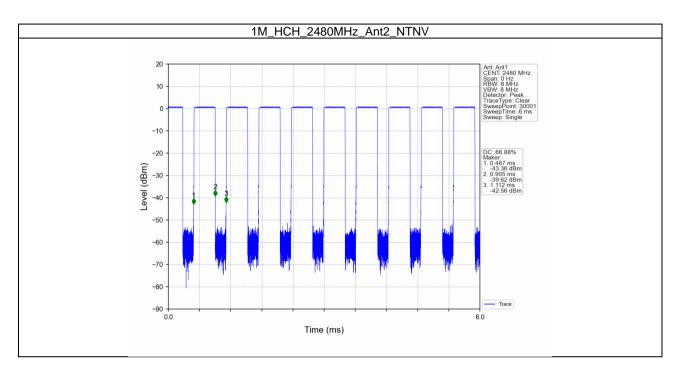




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Occupied Channel Bandwidth Test Result

Mode	ТΧ	Frequency	ANT	99% Occupied Bandwidth (MHz)		Verdict
wode	Туре	(MHz)	ANT	Result	Limit	verdict
1M SISO		2402	2	1.066	/	Pass
	2440	2	1.067	/	Pass	
		2480	2	1.062	/	Pass



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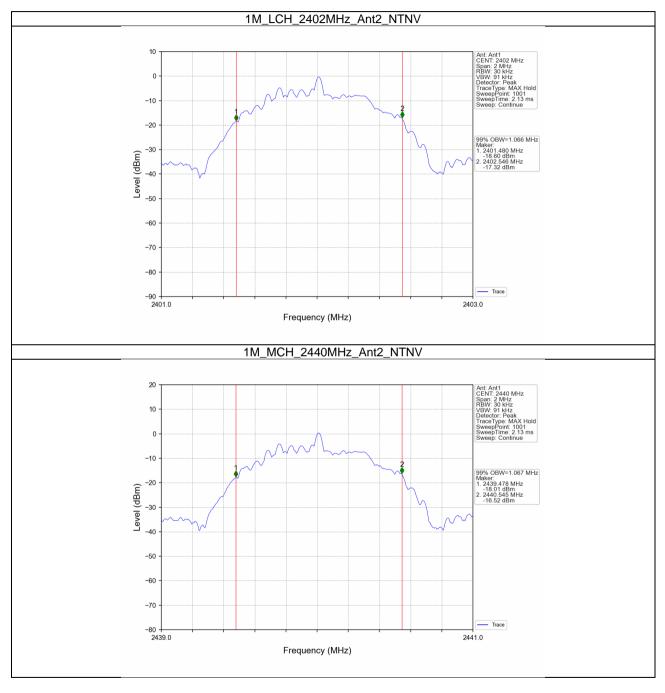
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Test Graphs

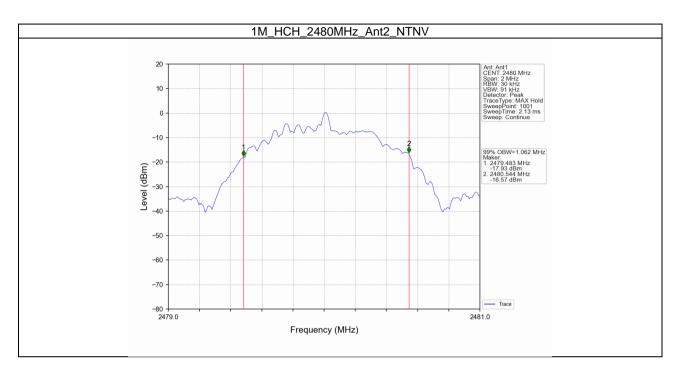




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6dB Bandwidth

Test Result

Mode	ΤX	Frequency	ANT	6dB Bandv	vidth (MHz)	Verdict
Mode	Туре	(MHz)	ANT	Result	Limit	
	SISO	2402	2	0.672	>=0.5	Pass
1M		2440	2	0.671	>=0.5	Pass
		2480	2	0.666	>=0.5	Pass



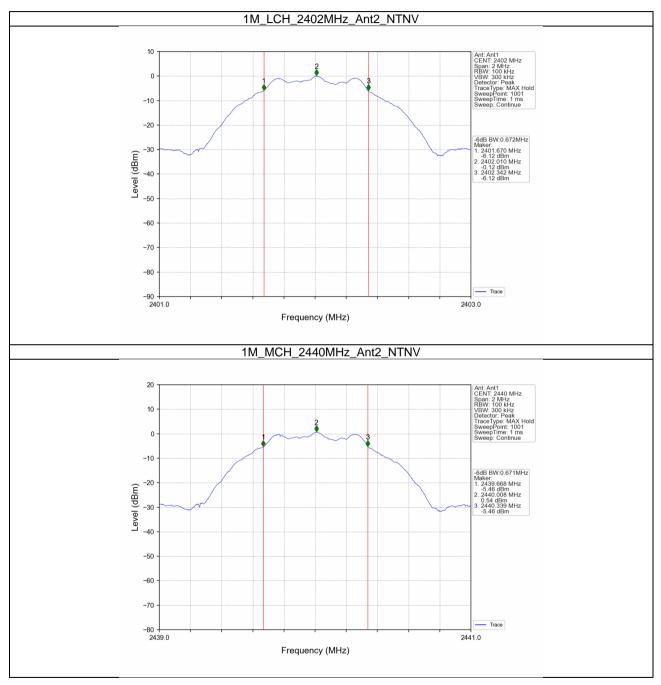
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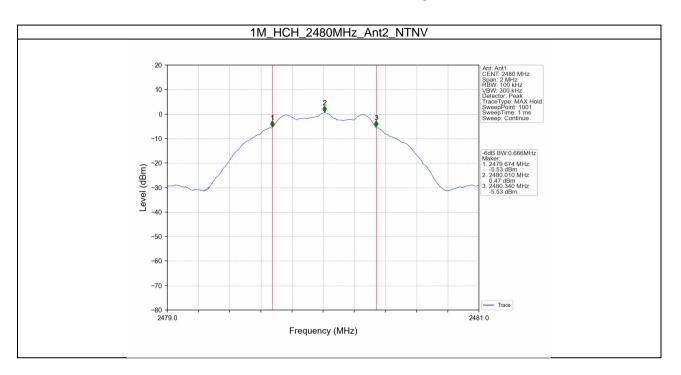
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Maximum conducted output power Test Result

Mode	ТХ	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdict				
Mode	Туре	(MHz)	ANT2	Limit	verdict				
		2402	0.14	<=30	Pass				
1M	SISO	2440	0.80	<=30	Pass				
		2480	0.70	<=30	Pass				
Note1: Anten	Note1: Antenna Gain: Ant2: 2.92dBi;								



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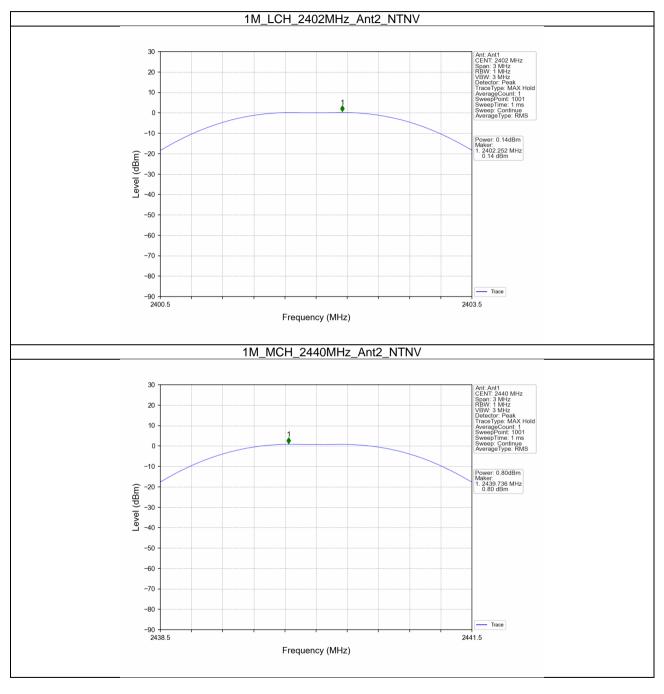
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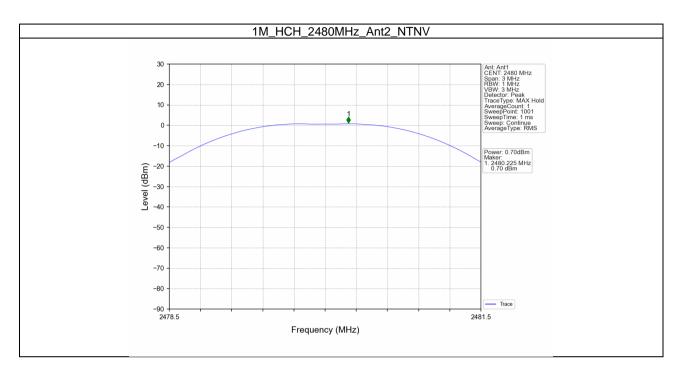




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Maximum power spectral density Test Result

Mode	TX	Frequency	Maximum PS	D (dBm/3kHz)	Verdict
wode	Туре	(MHz)	ANT2	Limit	verdict
		2402	-14.20	<=8	Pass
1M	SISO	2440	-13.49	<=8	Pass
		2480	-13.86	<=8	Pass
Note1: Antenna	Gain: Ant2: 2.92	dBi:			



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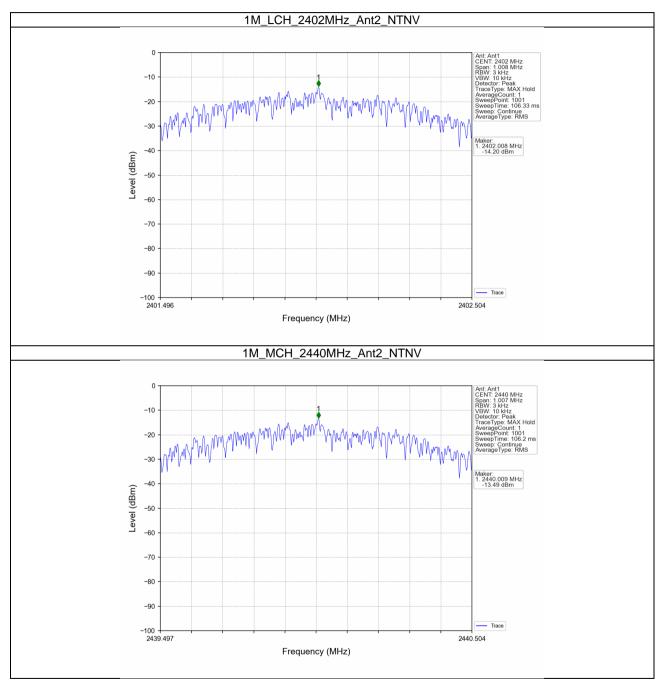
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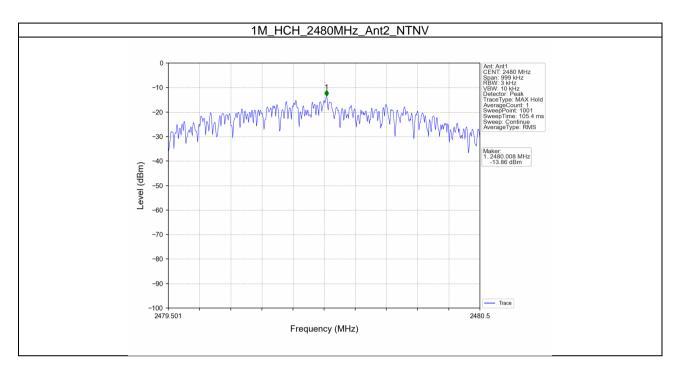
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Unwanted Emissions In Non-restricted Frequency Bands Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)				
		2402		-0.12				
1M	SISO	2440	2	0.53				
		2480	2	0.47				
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 refe	erence level.							



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1M LCH 2402MHz Ant2 NTNV 10 Ant: Ant1 CENT: 2402 MHz Span: 1.008 MHz RBW: 100 kHz VBW: 300 kHz Detector: Peak TraceType: MAX I 0 -10 -20 Maker: 1. 2402.008 MHz -0.12 dBm -30 Level (dBm) -40 -50 -60 -70 -80 Trace -90 2401.496 2402.504 Frequency (MHz) 1M_MCH_2440MHz_Ant2_NTNV 20 Ant: Ant1 CENT: 2440 MHz Span: 1.007 MHz RBW: 100 kHz VBW: 300 kHz Detector: Peak TraceType: MAX P 10 100 0 -10 Maker: 1. 2440.009 MHz 0.53 dBm -20 Level (dBm) -30 -40 -50 -60 -70 Trace -80 2439.497 2440.504 Frequency (MHz)

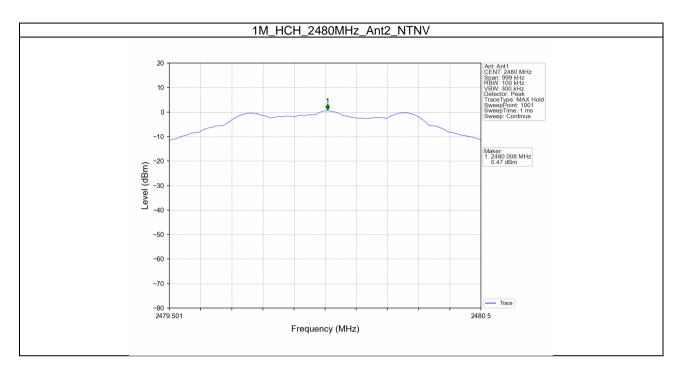
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Conducted Spurious Emission Test Graphs

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict			
		2402	2	0.53	-19.47	Pass			
1M	SISO	SO 2440 2		0.53	-19.47	Pass			
	SISO	2480	2	0.53	-19.47	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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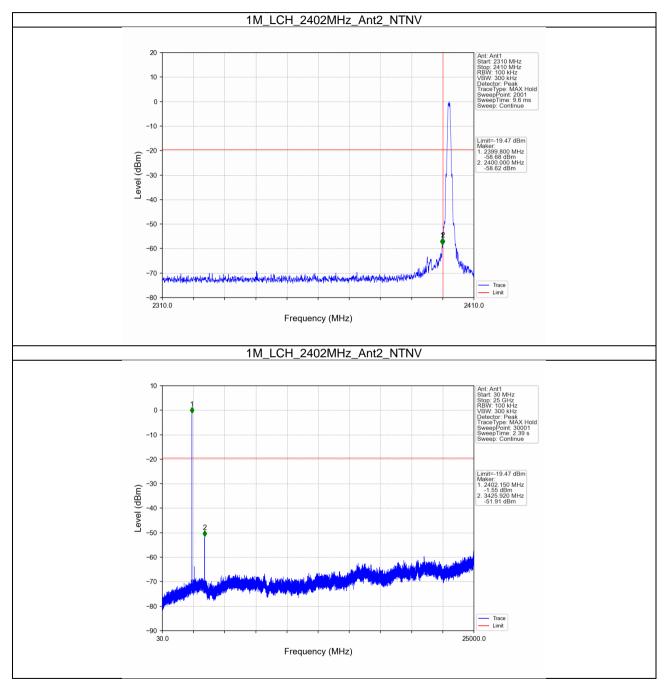
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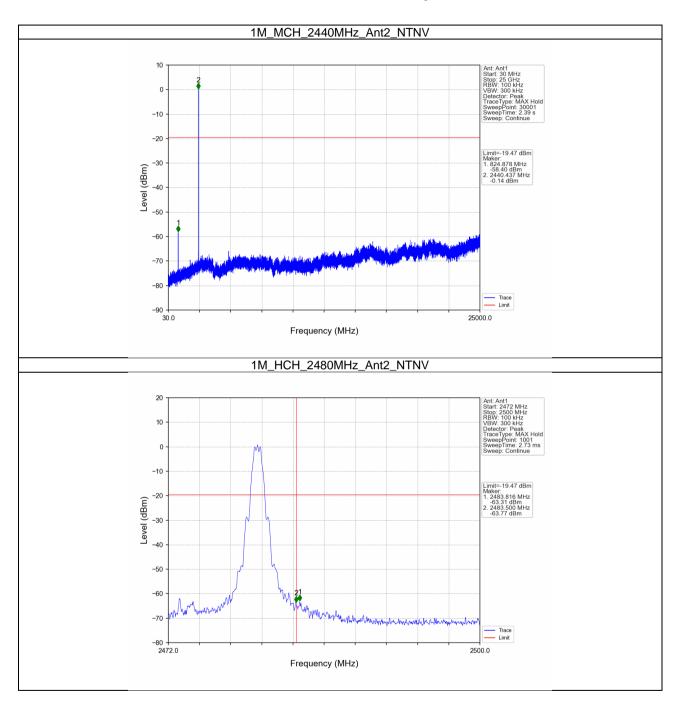




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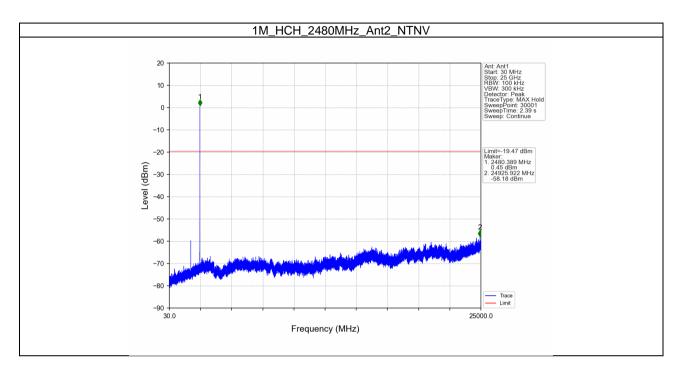




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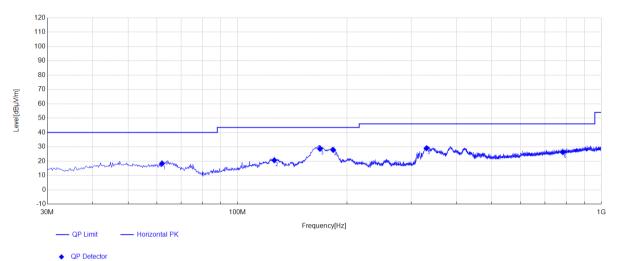
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 39



Data Lis	st							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	62.0164	12.00	-27.16	33.48	18.32	40.00	21.68	Horizontal
2	126.2432	8.80	-26.66	38.44	20.58	43.50	22.92	Horizontal
3	168.5437	8.85	-26.21	45.92	28.56	43.50	14.94	Horizontal
4	183.2907	9.23	-26.28	44.79	27.74	43.50	15.76	Horizontal
5	330.7602	14.12	-25.55	40.35	28.92	46.00	17.08	Horizontal
6	784.0348	20.64	-23.28	28.87	26.23	46.00	19.77	Horizontal



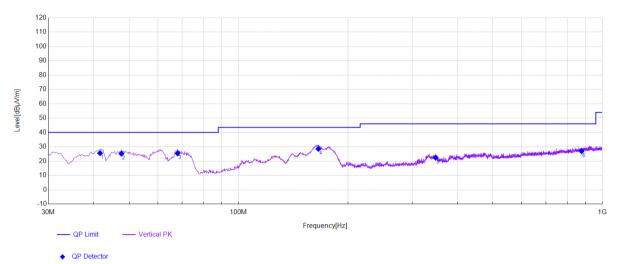
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Data Lis	st							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	41.6423	13.46	-27.64	39.73	25.55	40.00	14.45	Vertical
2	47.6575	13.97	-27.54	38.77	25.20	40.00	14.80	Vertical
3	68.0316	10.49	-26.88	41.77	25.38	40.00	14.62	Vertical
4	165.8272	8.87	-26.26	45.93	28.54	43.50	14.96	Vertical
5	348.2236	14.89	-25.29	32.82	22.42	46.00	23.58	Vertical
6	876.7854	21.76	-23.19	28.36	26.93	46.00	19.07	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(dBµV) + 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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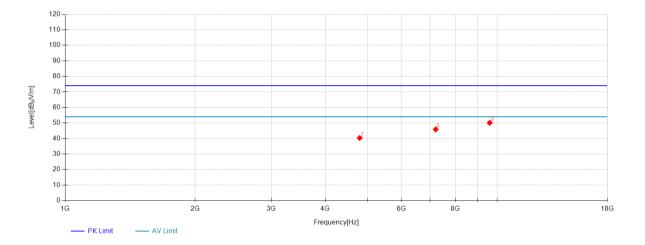
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 XEWA2310000073RG04

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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	52.51	30.78	-42.95	40.34	74.00	33.66	Horizontal				
2	7206	48.00	36.56	-38.71	45.85	74.00	28.15	Horizontal				
3	9608	47.97	37.85	-35.70	50.12	74.00	23.88	Horizontal				



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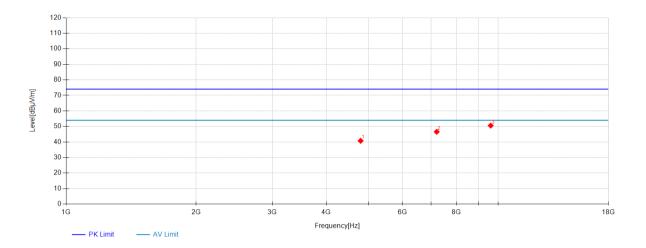
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BLE 1M_Channel 0



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	52.94	30.78	-42.95	40.77	74.00	33.23	Vertical			
2	7206	48.71	36.56	-38.71	46.56	74.00	27.44	Vertical			
3	9608	48.40	37.85	-35.70	50.55	74.00	23.45	Vertical			



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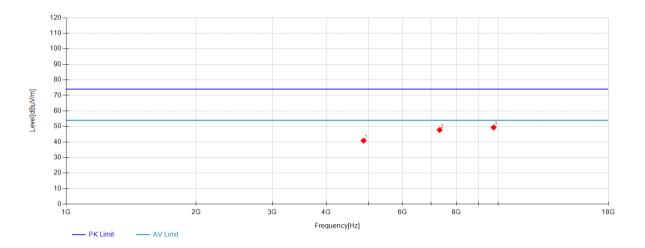
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BLE 1M_Channel 19



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	52.96	30.78	-42.89	40.85	74.00	33.15	Horizontal			
2	7320	50.06	36.44	-38.76	47.74	74.00	26.26	Horizontal			
3	9760	46.95	38.34	-35.97	49.32	74.00	24.68	Horizontal			



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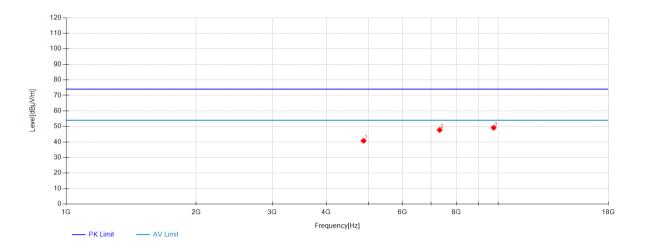
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BLE 1M_Channel 19



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	52.89	30.78	-42.89	40.78	74.00	33.22	Vertical			
2	7320	50.04	36.44	-38.76	47.72	74.00	26.28	Vertical			
3	9760	46.80	38.34	-35.97	49.17	74.00	24.83	Vertical			



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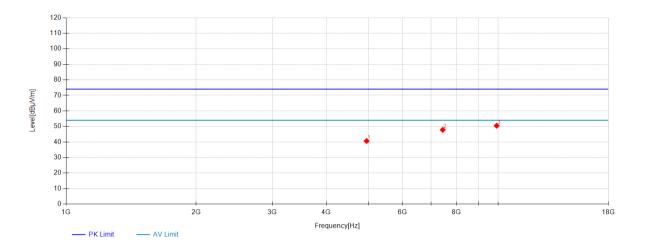
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BLE 1M_Channel 39



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4960	52.37	31.04	-42.78	40.63	74.00	33.37	Horizontal		
2	7440	49.32	36.78	-38.28	47.82	74.00	26.18	Horizontal		
3	9920	47.37	38.62	-35.49	50.50	74.00	23.50	Horizontal		



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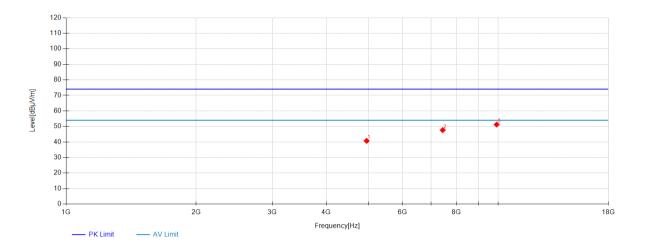
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BLE 1M_Channel 39



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4960	52.49	31.04	-42.78	40.75	74.00	33.25	Vertical		
2	7440	49.14	36.78	-38.28	47.64	74.00	26.36	Vertical		
3	9920	48.10	38.62	-35.49	51.23	74.00	22.77	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) 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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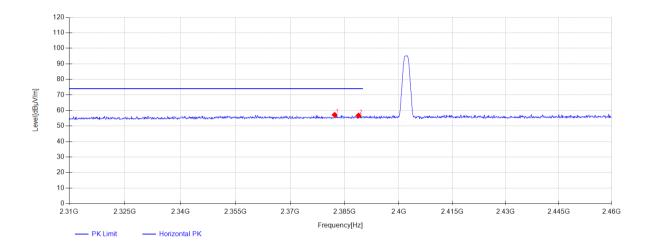
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Restricted bands around fundamental frequency

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	2382.2611	48.00	27.47	-18.32	57.15	74.00	16.85	Horizontal		
2	2388.8644	47.41	27.44	-18.17	56.68	74.00	17.32	Horizontal		



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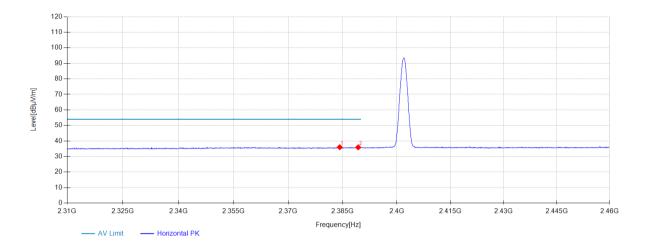
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BLE 1M_Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2384.2121	26.84	27.46	-18.28	36.02	54.00	17.98	Horizontal		
2	2389.3147	26.64	27.44	-18.17	35.91	54.00	18.09	Horizontal		



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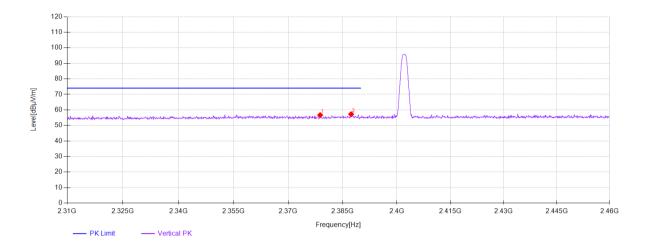
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BLE 1M_Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2378.8094	47.59	27.48	-18.38	56.69	74.00	17.31	Vertical		
2	2387.3637	48.00	27.45	-18.21	57.24	74.00	16.76	Vertical		



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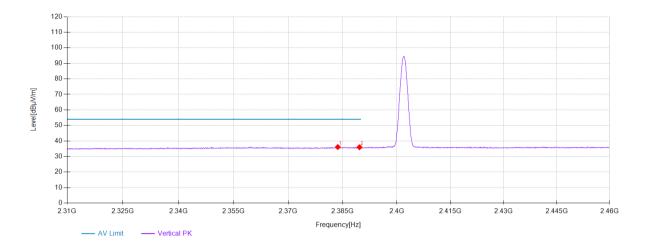
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BLE 1M_Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2383.6868	26.93	27.47	-18.29	36.11	54.00	17.89	Vertical		
2	2389.6898	26.70	27.44	-18.16	35.98	54.00	18.02	Vertical		



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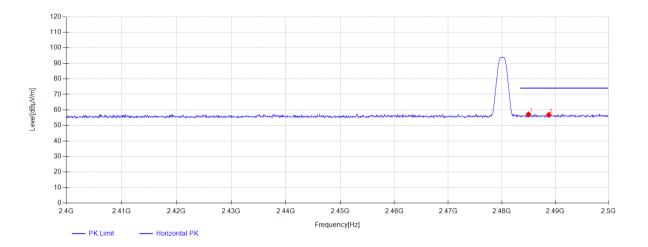
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BLE 1M_Channel 39



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2484.9925	47.53	27.74	-18.18	57.09	74.00	16.91	Horizontal		
2	2488.7944	47.20	27.76	-18.16	56.80	74.00	17.20	Horizontal		



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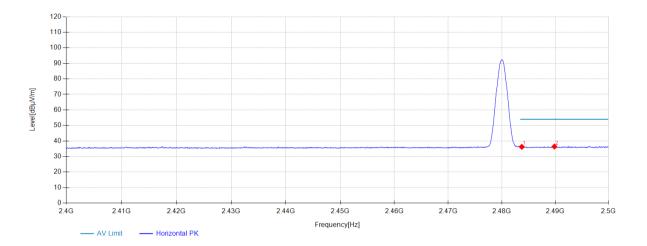
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Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.7419	26.69	27.73	-18.19	36.23	54.00	17.77	Horizontal		
2	2489.8449	26.82	27.76	-18.16	36.42	54.00	17.58	Horizontal		



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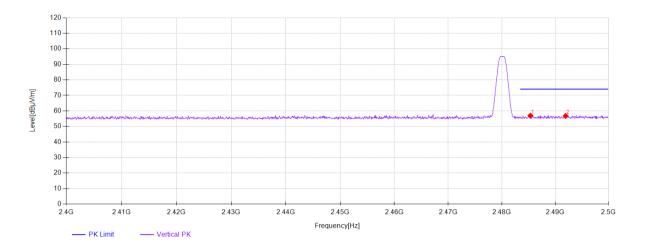
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Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2485.3427	47.39	27.74	-18.18	56.95	74.00	17.05	Vertical			
2	2491.946	47.19	27.77	-18.18	56.78	74.00	17.22	Vertical			



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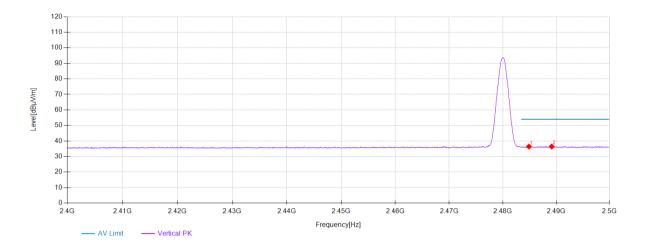
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2484.8924	26.86	27.74	-18.18	36.42	54.00	17.58	Vertical	
2	2489.1446	26.84	27.76	-18.16	36.44	54.00	17.56	Vertical	

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 μ V/m) – Level(dB μ 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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