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FCC TEST REPORT

Application No.:	ZR/2021/30033
Applicant:	HMD Global Oy
Address of Applicant	Bertel Jungin aukio 9, Espoo 02600, Finland
Manufacturer:	HMD Global Oy
Address of Manufacturer	Bertel Jungin aukio 9, Espoo 02600, Finland
EUT Description:	Smart Phone
Model No.:	TA-1391
Trade Mark:	Nokia
FCC ID:	2AJOTTA-1391
Standards:	47 CFR FCC Part 2, Subpart J
	47 CFR Part 15, Subpart C
Date of Receipt:	2021/4/1
Date of Test:	2021/4/2 to 2021/4/15
Date of Issue:	2021/4/21
Test Result :	PASS *

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

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021-04-21		Original	

Authorized for issue by:	
Prepared By	Dee.Zheng
	(Dee Zheng) / Engineer
Checked By	Jim Hong
	(Jim Huang) / Reviewer



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2 Test Summary

Test Item	Test Item Test Requirement		Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS	В
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS	А
DTS (6 dB) Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS	А
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS	А
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS	А
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	А
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	В

Remark : All test were performed by Lab A and B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd.

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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3 General Information

3.1 Details of Client

Applicant:	HMD Global Oy	
Address of Applicant	Bertel Jungin aukio 9, Espoo 02600, Finland	
Manufacturer:	HMD Global Oy	
Address of Manufacturer	Bertel Jungin aukio 9, Espoo 02600, Finland	

3.2 Test Location

Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address: No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China	
Post code:	518057
Test engineer:	Dee Zheng,Swing Hu,Habit Zeng

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Leah Chen,Ken Liu,Andy Yao



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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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

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.

FCC-Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	TA-1391
Trade Mark:	Nokia
Hardware Version:	19545_1_10
Software Version:	V0.100_A01(SW_T19545AA1_V010_M10_NF_NOKIA_Iris_USR_TEST)
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 V4.2
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	⊠ Portable Device, □Module
Antenna Type:	🗌 External, 🔀 Integrated
Antenna Gain:	0.7dBi

	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



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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

3.5 Test Environment

Operating Environment:		
Temperature:	25.0 °C	
Humidity:	50 % RH	
Atmospheric Pressure:	101.30 KPa	

3.6 Description of Support Units

The EUT has been tested 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(c)

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 on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.7dBi.



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4.2 AC Power Line Conducted Emissions

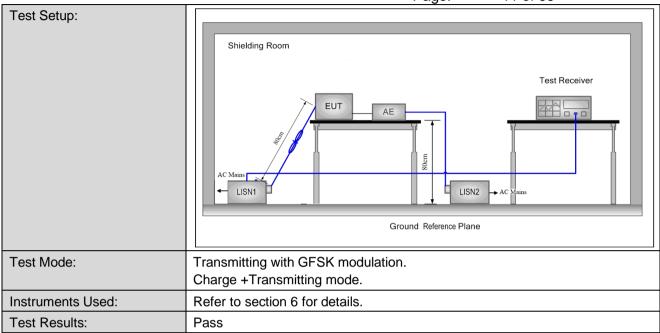
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:		Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	 room. 2) The EUT was connected impedance Stabilizati impedance. The porconnected to a second plane in the same of multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizor 4) The test was perform the EUT shall be 0. vertical ground reference plane. The unit under test and mounted on top of the the closest points of and associated equip 5) In order to find the mand all of the interfate 	listurbance voltage test was ected to AC power source to tion Network) which provides ower cables of all other und tables of all other und way as the LISN 1 for the or the rating of the LISN was not as placed upon a non-metalling of the LISN was not as placed upon a non-metalling ne. And for floor-standing arr notal ground reference plane. ed with a vertical ground refe the from the vertical ground refe to LISN 1 was placed 0.8 m from the LISN 1 and the EUT. All ownent was at least 0.8 m from taximum emission, the relative ce cables must be changed a on conducted measurement.	through a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear nits of the EUT were I to the ground reference unit being measured. A ultiple power cables to a bt exceeded. ic table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The b the horizontal ground rom the boundary of the rence plane for LISNs is distance was between II other units of the EUT in the LISN 2. e positions of equipment		



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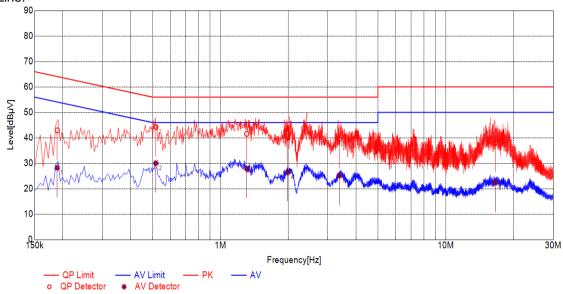


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Measurement Data

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.

Live Line:



Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1890	10.10	42.95	64.08	21.13	28.23	54.08	25.85
2	0.5176	10.10	44.19	56.00	11.81	30.02	46.00	15.98
3	1.3089	10.10	41.55	56.00	14.45	27.93	46.00	18.07
4	1.9919	10.10	40.36	56.00	15.64	26.56	46.00	19.44
5	3.3752	10.10	39.57	56.00	16.43	25.12	46.00	20.88
6	16.5429	10.11	38.09	60.00	21.91	22.37	50.00	27.63

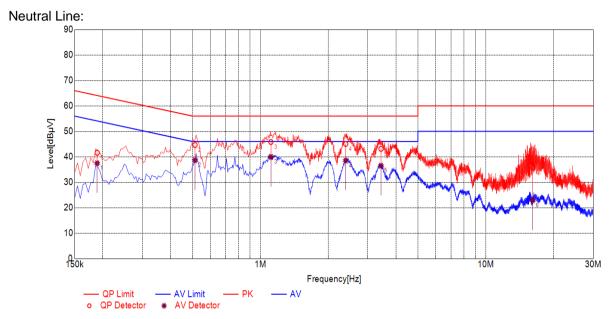


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Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1889	10.10	41.56	64.08	22.52	37.47	54.08	16.61
2	0.5131	10.10	44.61	56.00	11.39	38.63	46.00	7.37
3	1.1136	10.10	45.82	56.00	10.18	39.97	46.00	6.03
4	2.3919	10.10	45.05	56.00	10.95	38.50	46.00	7.50
5	3.4291	10.10	43.11	56.00	12.89	36.48	46.00	9.52
6	16.1326	10.11	35.69	60.00	24.31	22.85	50.00	27.15

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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4.3 Duty Cycle

The detailed test data see: Appendix



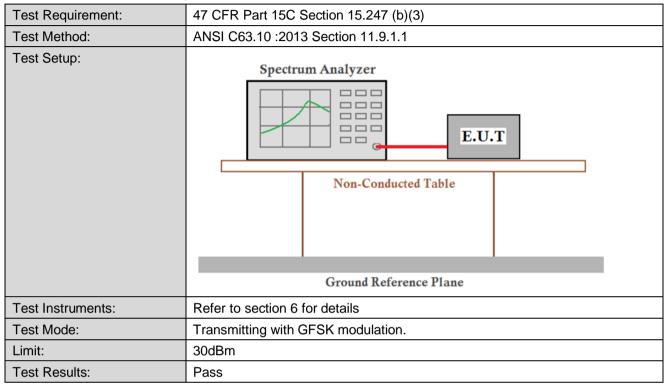
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4.4 Conducted Output Power



The detailed test data see: Appendix

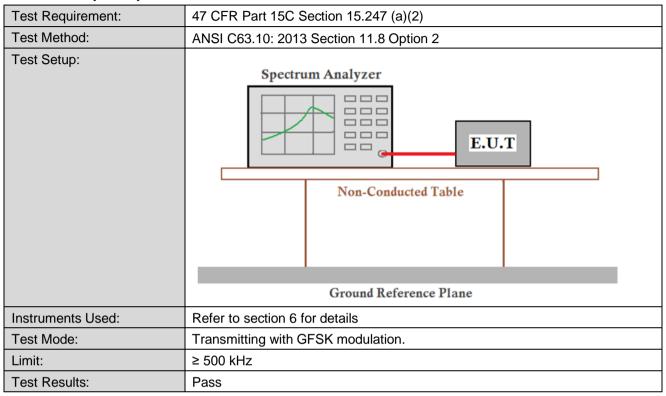


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4.5 DTS (6 dB) Bandwidth



The detailed test data see: Appendix

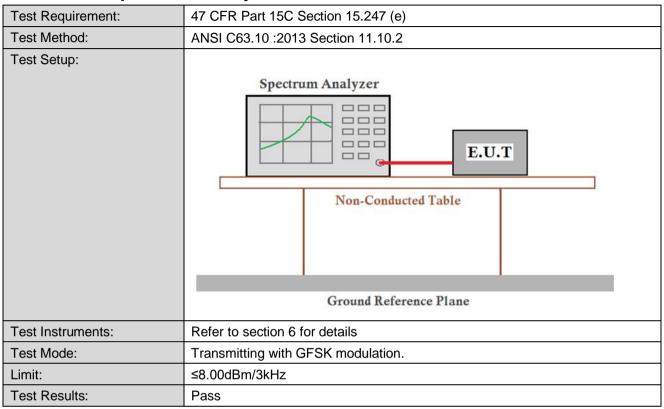


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4.6 Power Spectral Density



The detailed test data see: Appendix

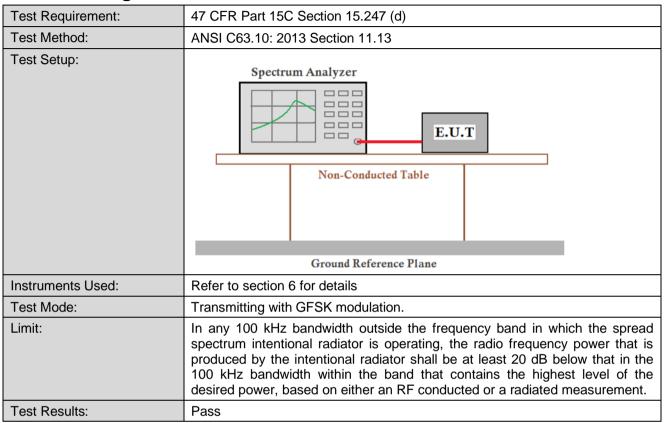


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4.7 Band-edge for RF Conducted Emissions



The detailed test data see: Appendix

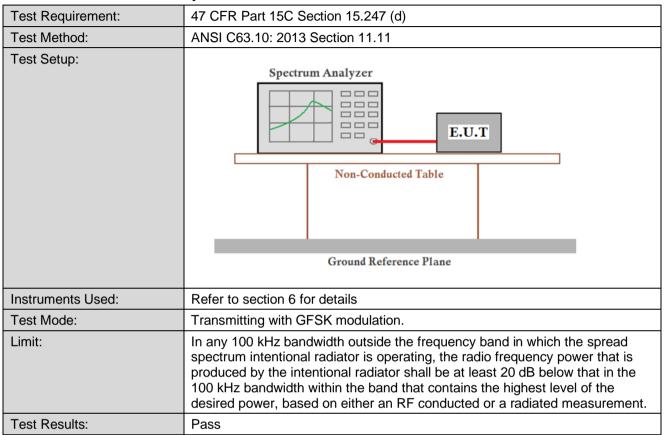


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4.8 **RF Conducted Spurious Emissions**



The detailed test data see: Appendix



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 :2013 Section 11.12						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak		
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average		
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak		
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average		
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above IGHZ	Peak	1MHz	10Hz	Average		
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.009MHz-0.490MHz 0.490MHz-1.705MHz	2400/F(kHz) 24000/F(kHz)	-	-	300 30		
		, ,		-			
	0.490MHz-1.705MHz	24000/F(kHz)	- - - 40.0	- - - Quasi-peak	30		
	0.490MHz-1.705MHz 1.705MHz-30MHz	24000/F(kHz) 30	-	- - Quasi-peak Quasi-peak	30 30		
	0.490MHz-1.705MHz 1.705MHz-30MHz 30MHz-88MHz	24000/F(kHz) 30 100	- 40.0		30 30 3		
	0.490MHz-1.705MHz 1.705MHz-30MHz 30MHz-88MHz 88MHz-216MHz	24000/F(kHz) 30 100 150	- 40.0 43.5	Quasi-peak	30 30 3 3 3		
	0.490MHz-1.705MHz 1.705MHz-30MHz 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz	24000/F(kHz) 30 100 150 200	- 40.0 43.5 46.0	Quasi-peak Quasi-peak	30 30 3 3 3 3		

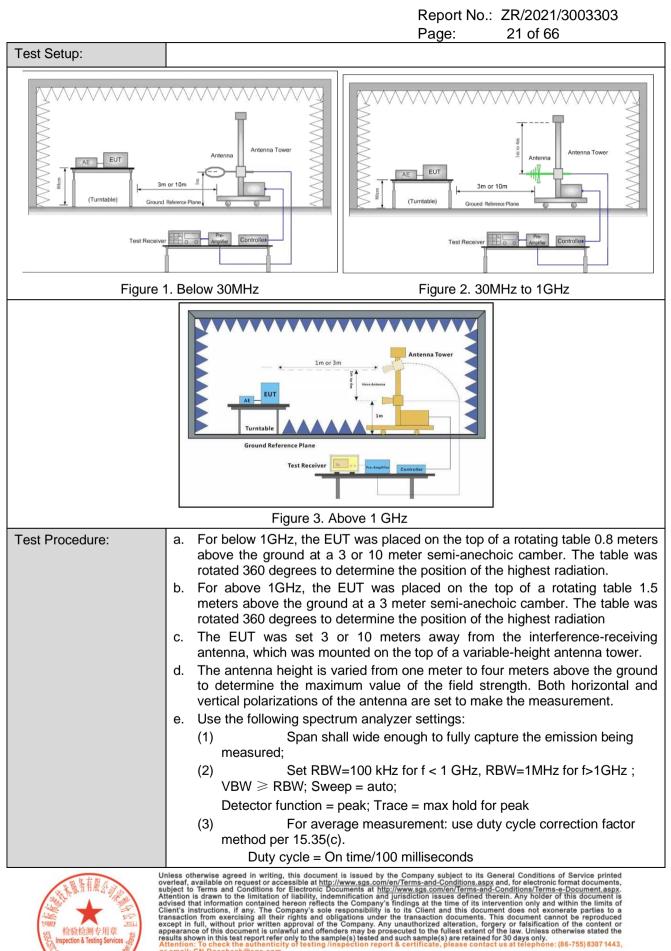


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	On time = N 1 *L 1 +N 2 *L 2 ++N n-1 *LN n-1 +N n *L n					
	Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc.					
	Average Emission Level = Peak Emission Level + 20*log(Duty cycle)					
	f. For each suspected emission, the 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.					
	 g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 					
	h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
	i. Test the EUT in the lowest channel, the middle channel ,the Highest channel.					
	j. 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.					
	k. Repeat above procedures until all frequencies measured was complete.					
Exploratory Test Mode:	Transmitting with GFSK modulation.					
	Charge + Transmitting mode.					
Final Test Mode:	Transmitting with GFSK modulation.					
	Pretest the EUT at Charge + Transmitting mode,					
	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 6 for details					
Test Results:	Pass					

The detailed test data see: Appendix



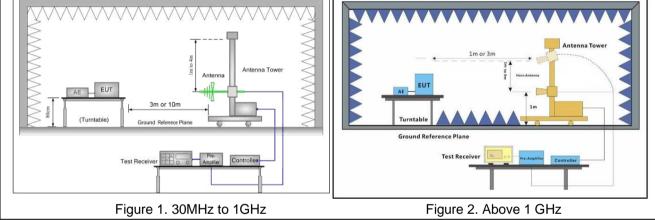
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4.10Restricted bands around fundamental frequency

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	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				
		54.0	Average Value				
	Above IGHZ	Above 1GHz 74.0 Peak Value					
Test Setup:							





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	· • • • • • • • • • • • • • • • • • • •
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 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.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

The detailed test data see: Appendix



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

Lab A:		
No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.8dB (Below 1GHz)
2	De dista d Essie sie s	± 4.8dB (1GHz to 6GHz)
2	Radiated Emission	± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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Equipment List 6

		RF conducted			
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2020/4/21	2021/4/20

CE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03			
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05			
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR			



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RSE Test System								
Equipment	Manufacturer	Model No. Inventory No.		Cal Date	Cal Due Date			
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10			
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2021-04-01	2022-03-31			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10			
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12			
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12			
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12			
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	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25			
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25			
Amplifier	Amplifier Tonscend		XAW01-41-03	2020-10-27	2021-10-26			
Amplifier	Amplifier Shanghai Steed		XAW01-41-06	2020-10-26	2021-10-25			
5G UXM	Keysight	E7515B	XAW01-04-01	2020-09-11	2021-09-10			
Temperature and humidity meter			XAW01-01-01	2020-11-06	2021-11-05			
Measurement Software Tonscend		TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR			



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7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



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Appendix



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DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	2402	0.672	2401.664	2402.336	0.5	PASS	
BLE_1M	Ant1	2440	0.672	2439.664	2440.336	0.5	PASS
		2480	0.669	2479.664	2480.333	0.5	PASS



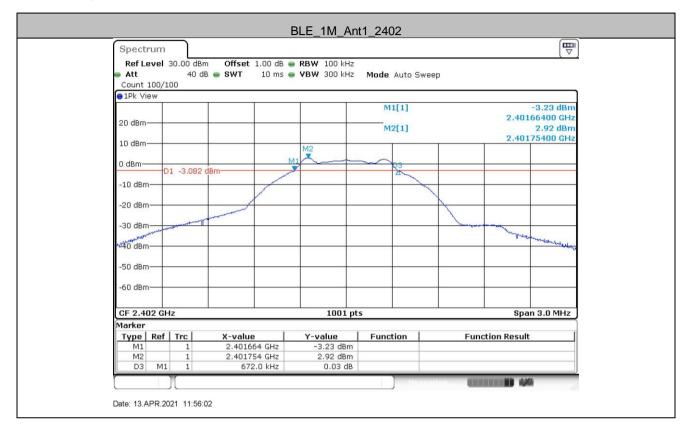
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Test Graphs





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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	2402	1.016	2401.500	2402.515		PASS	
BLE_1M	Ant1	2440	1.013	2439.500	2440.512		PASS
		2480	1.019	2479.497	2480.515		PASS



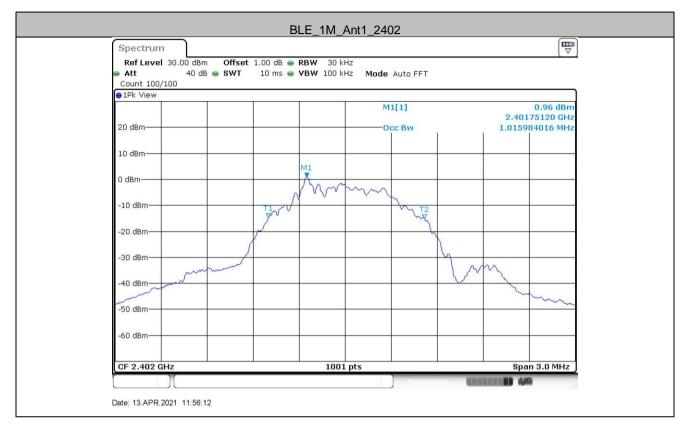
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Test Graphs





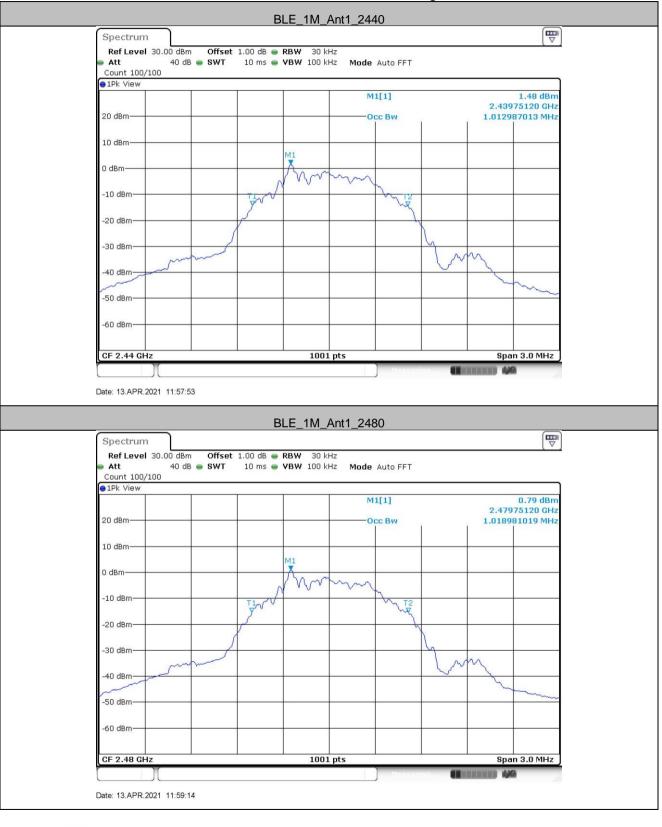
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Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.37	<=30	PASS
		2440	3.81	<=30	PASS
		2480	3.16	<=30	PASS



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Test Graphs



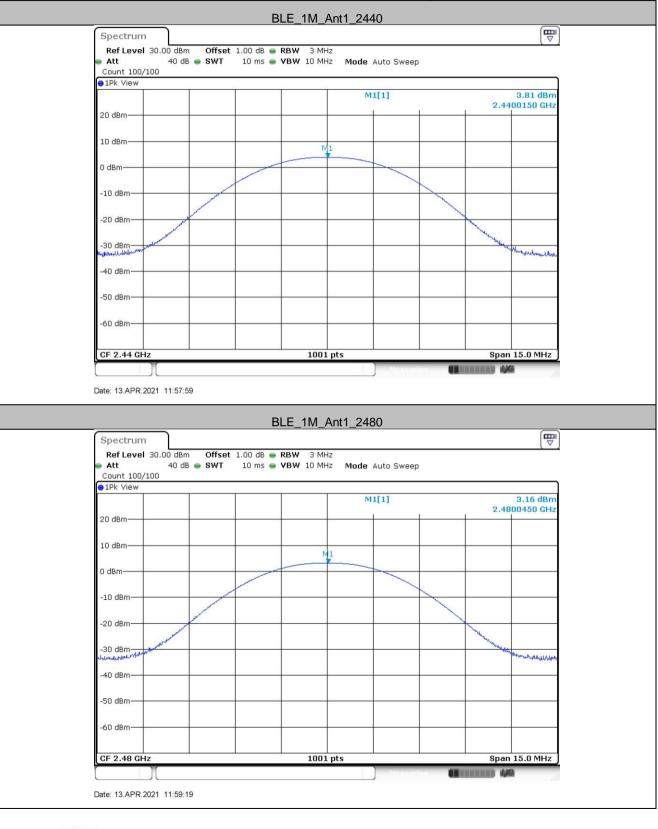


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Maximum power spectral density Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2402	-13.36	<=8	PASS
BLE_1M	Ant1	2440	-12.77	<=8	PASS
		2480	-13.51	<=8	PASS



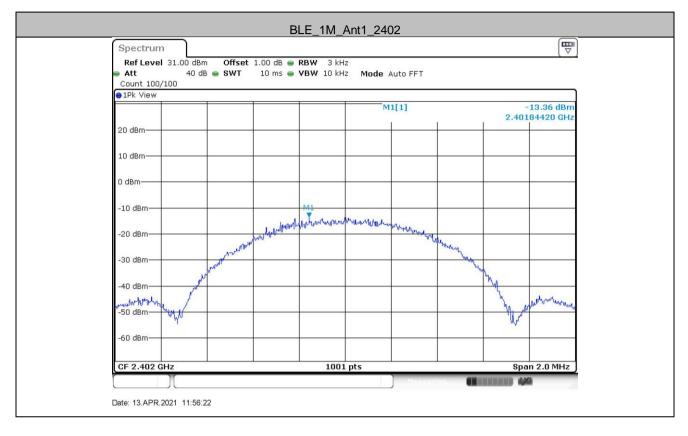
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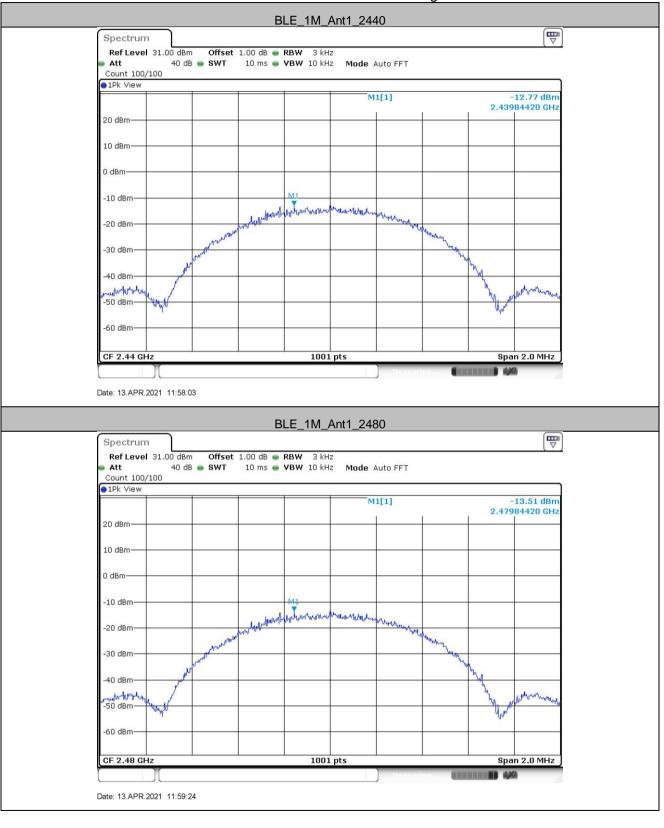


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Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
		Low	2402	2.95	-56.48	<=-17.05	PASS
BLE_1M	Ant1	High	2480	2.83	-56.8	<=-17.17	PASS



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Test Graphs

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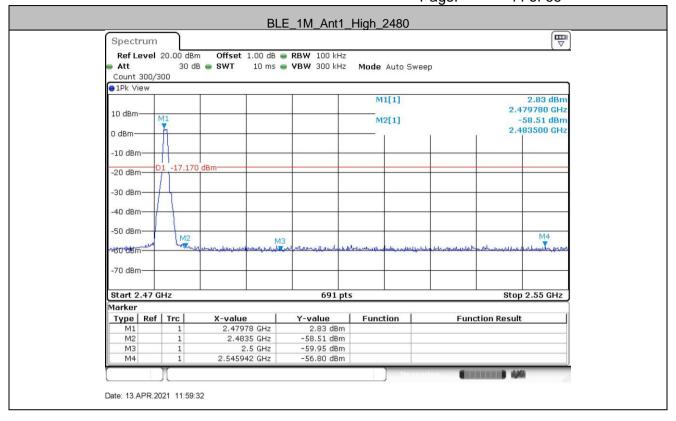


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Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
			Reference	2.96	2.96		PASS
		2402	30~1000	2.96	-46.23	<=-17.04	PASS
			1000~26500	2.96	-31.18	<=-17.04	PASS
			Reference	3.46	3.46		PASS
BLE_1M	Ant1	2440	30~1000	3.46	-45.55	<=-16.54	PASS
			1000~26500	3.46	-30.98	<=-16.54	PASS
			Reference	2.79	2.79		PASS
		2480	30~1000	2.79	-45.83	<=-17.21	PASS
			1000~26500	2.79	-29.83	<=-17.21	PASS



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Test Graphs



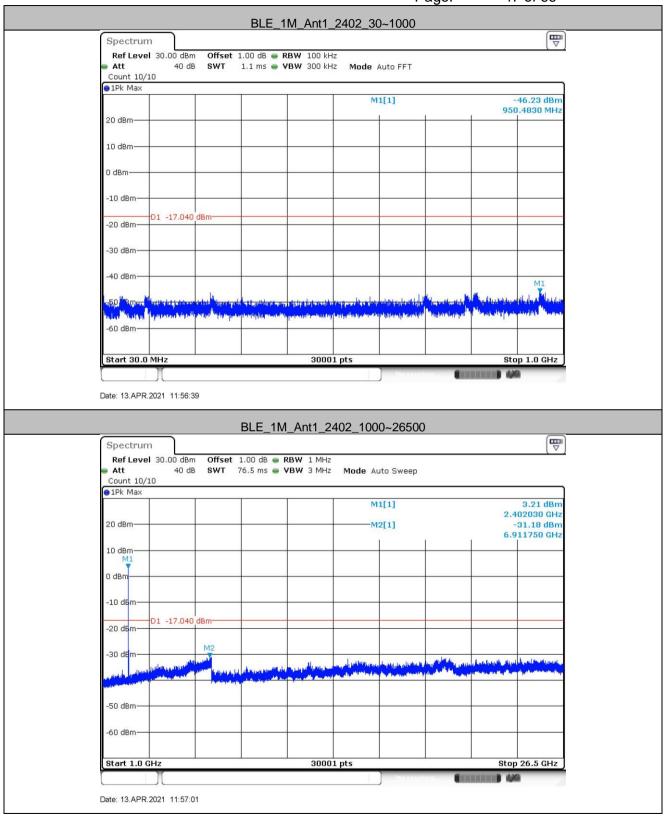


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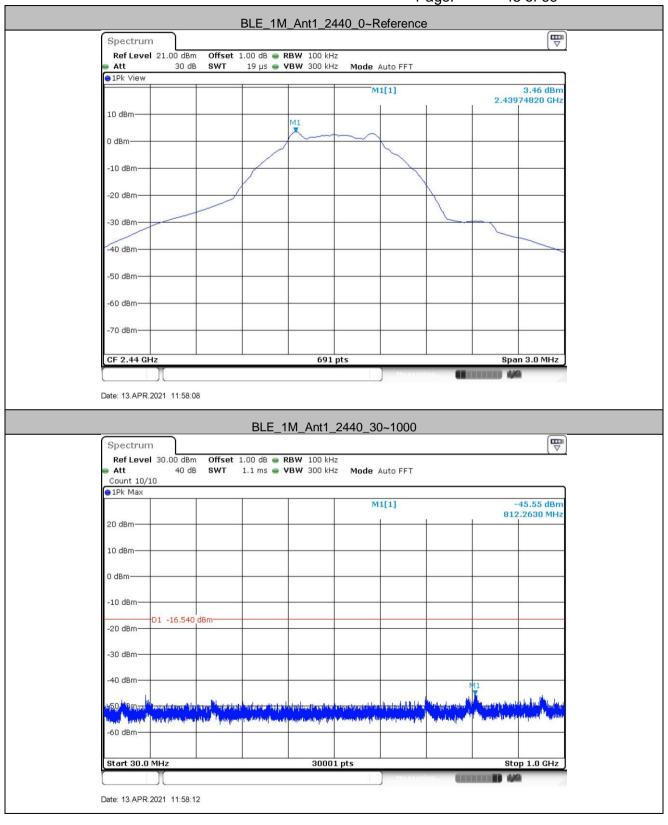


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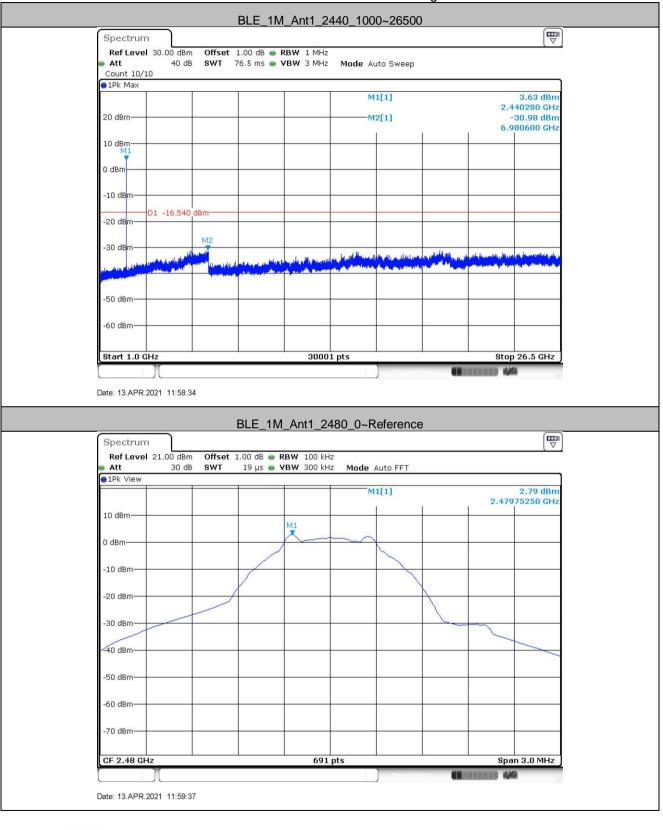


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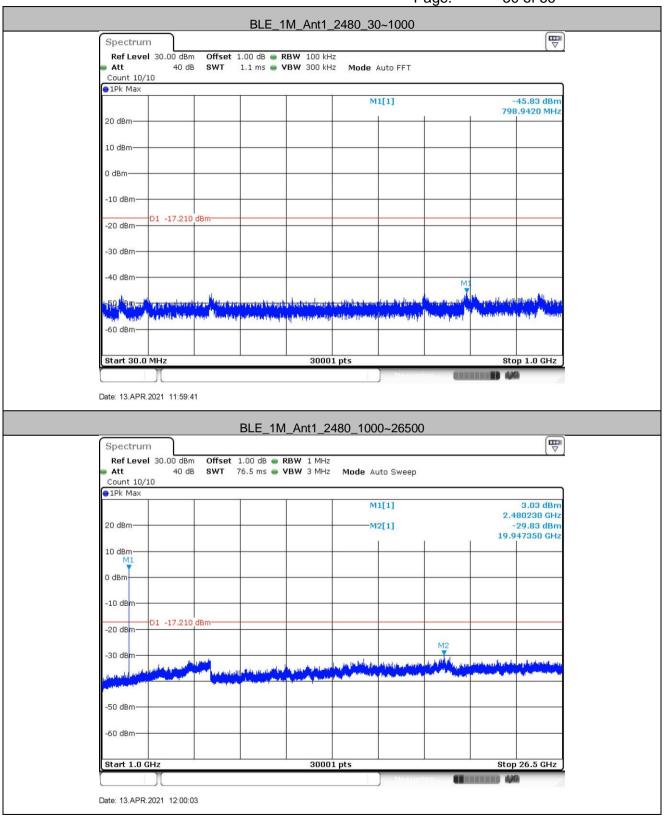


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Duty Cycle Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
		2402	1.61	1.85	87.03		PASS
BLE_1M	Ant1	2440	1.61	1.85	87.03		PASS
		2480	1.61	1.85	87.03		PASS



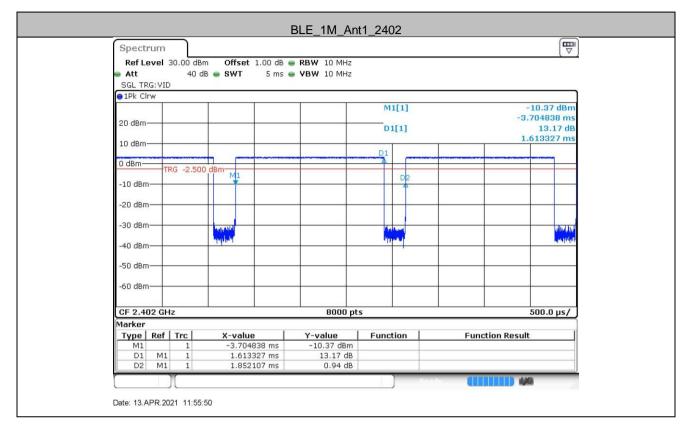
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Test Graphs



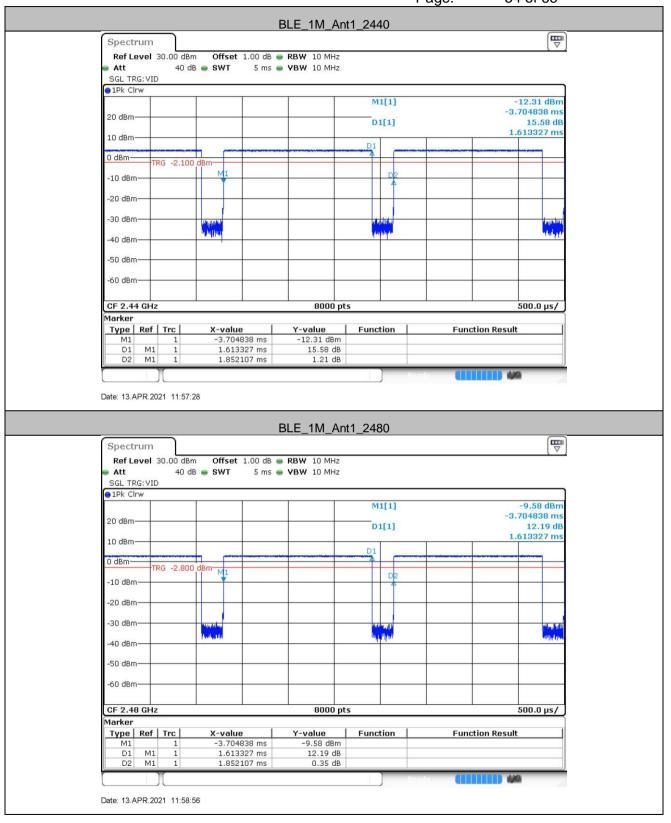


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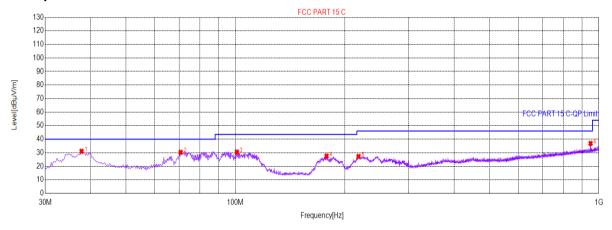
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Radiated Spurious Emission

Radiated Emission below 1GHz Charge + Transmitting Test Graph



- QP Limit ----- Vertical PK QP Detector

Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	37.7616	31.08	-28.20	40.00	8.92	169	278	Vertical				
2	70.7482	30.31	-30.65	40.00	9.69	157	256	Vertical				
3	101.018	30.51	-28.13	43.50	12.99	178	98	Vertical				
4	178.245	27.54	-29.83	43.50	15.96	212	158	Vertical				
5	218.217	27.25	-27.56	46.00	18.75	200	154	Vertical				
6	948.967	36.90	-13.88	46.00	9.10	188	154	Vertical				

Final Data List



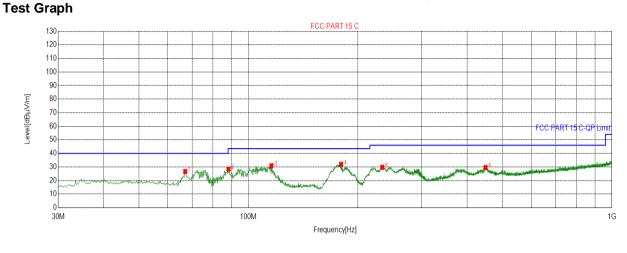
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QP Limit - Horizontal PK QP Detector

Suspected List

Susp	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	67.0614	26.67	-29.76	40.00	13.33	212	92	Horizontal
2	88.2116	28.42	-30.28	43.50	15.08	208	85	Horizontal
3	115.765	30.94	-29.02	43.50	12.56	201	212	Horizontal
4	179.992	32.02	-29.76	43.50	11.48	203	261	Horizontal
5	233.740	29.80	-27.18	46.00	16.20	165	290	Horizontal
6	449.317	29.66	-22.02	46.00	16.34	204	40	Horizontal

Final Data List



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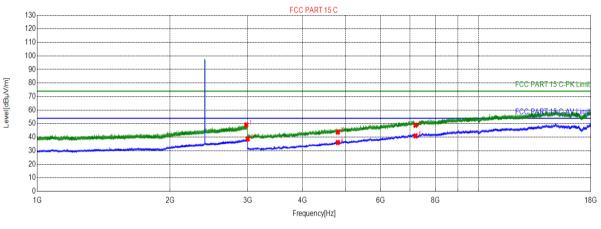
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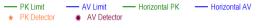


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Transmitter Emission above 1GHz BLE-1M CH0

Test Graph





Suspected List

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2978.19	49.07	10.51	74.00	24.93	153	59	Horizontal
2	3000.00	38.69	10.81	54.00	15.31	159	54	Horizontal
3	4804.00	43.74	-15.41	74.00	30.26	175	290	Horizontal
4	4804.00	36.07	-15.41	54.00	17.93	192	296	Horizontal
5	7206.00	40.95	-8.59	54.00	13.05	182	256	Horizontal
6	7206.00	48.86	-8.59	74.00	25.14	167	34	Horizontal

Final Data List



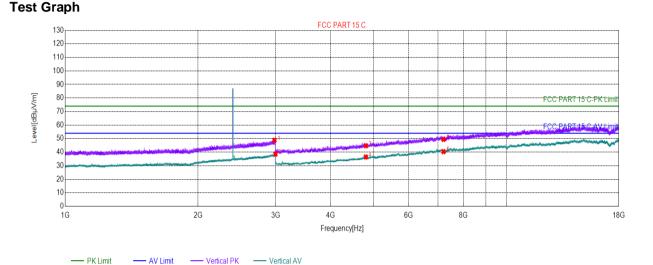
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BLE-1M CH0



Suspected List

✤ PK Detector

* AV Detector

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2982.19	48.85	10.54	74.00	25.15	260	294	Vertical
2	2996.49	38.58	10.70	54.00	15.42	285	153	Vertical
3	4804.00	44.75	-15.41	74.00	29.25	277	76	Vertical
4	4804.00	36.43	-15.41	54.00	17.57	246	104	Vertical
5	7206.00	40.40	-8.59	54.00	13.60	255	310	Vertical
6	7206.00	49.48	-8.59	74.00	24.52	231	30	Vertical

Final Data List



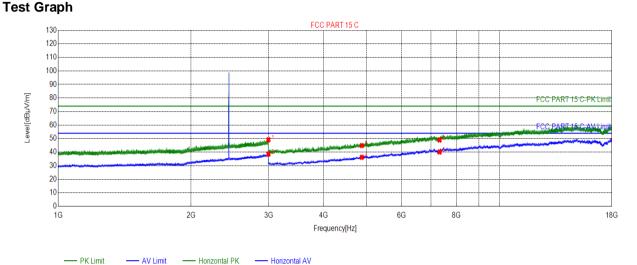
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BLE-1M CH19



✤ PK Detector * AV Detector

Suspected List

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2996.29	49.15	10.69	74.00	24.85	155	352	Horizontal
2	2997.69	38.64	10.74	54.00	15.36	160	132	Horizontal
3	4880.00	44.88	-15.07	74.00	29.12	162	315	Horizontal
4	4880.00	36.23	-15.07	54.00	17.77	183	321	Horizontal
5	7320.00	40.15	-8.63	54.00	13.85	194	81	Horizontal
6	7320.00	48.97	-8.63	74.00	25.03	177	229	Horizontal

Final Data List



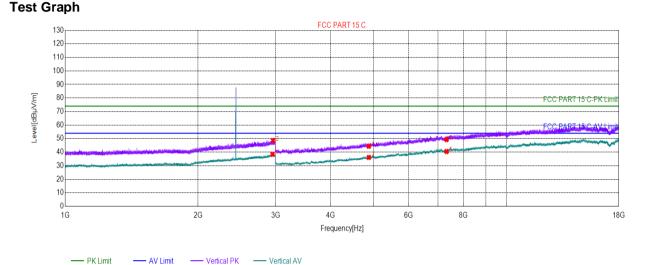
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BLE-1M CH19



★ PK Detector * AV Detector Suspected List

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1	C.		no	oct	bd	1.1	ic

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.89	38.42	10.56	54.00	15.58	222	84	Vertical
2	2958.19	48.57	10.52	74.00	25.43	230	330	Vertical
3	4880.00	44.37	-15.07	74.00	29.63	213	202	Vertical
4	4880.00	36.12	-15.07	54.00	17.88	254	309	Vertical
5	7320.00	40.48	-8.63	54.00	13.52	291	173	Vertical
6	7320.00	49.28	-8.63	74.00	24.72	267	297	Vertical

Final Data List



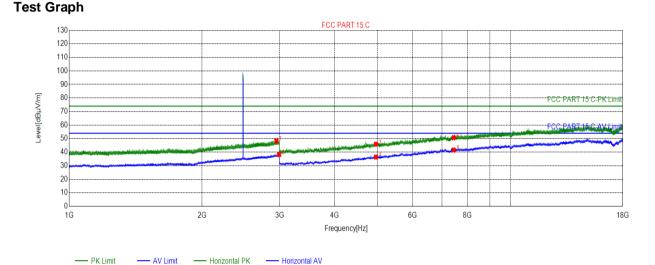
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BLE-1M CH39



Suspected List

✤ PK Detector

* AV Detector

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2949.79	48.38	10.56	74.00	25.62	151	334	Horizontal		
2	2991.49	38.29	10.54	54.00	15.71	162	282	Horizontal		
3	4960.00	45.88	-14.40	74.00	28.12	183	250	Horizontal		
4	4960.00	36.41	-14.40	54.00	17.59	174	326	Horizontal		
5	7440.00	41.59	-7.31	54.00	12.41	196	342	Horizontal		
6	7440.00	50.68	-7.31	74.00	23.32	152	331	Horizontal		

Final Data List



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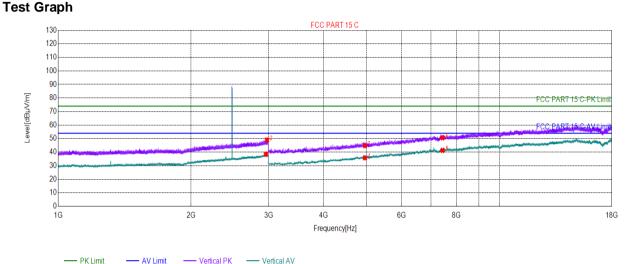
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BLE-1M _ CH39



* PK Detector
 * AV Detector

Suspected List

Suspected List

Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2957.69	38.48	10.53	54.00	15.52	231	308	Vertical	
2	2974.29	49.01	10.42	74.00	24.99	203	64	Vertical	
3	4960.00	44.83	-14.40	74.00	29.17	261	262	Vertical	
4	4960.00	35.83	-14.40	54.00	18.17	276	79	Vertical	
5	7440.00	41.33	-7.31	54.00	12.67	290	114	Vertical	
6	7440.00	50.65	-7.31	74.00	23.35	284	268	Vertical	

Final Data List

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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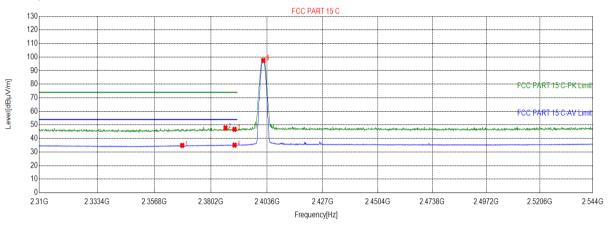
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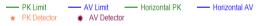


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Restricted bands around fundamental frequency Test plots BLE 1M Channel 0

Test Graph





Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2368.29	34.88	9.02	54.00	19.12	153	203	Horizontal		
2	2386.20	47.78	9.50	74.00	26.22	166	279	Horizontal		
3	2390.00	46.73	9.60	74.00	27.27	162	104	Horizontal		
4	2390.00	35.12	9.60	54.00	18.88	182	57	Horizontal		
5	2402.00	97.48	9.87	0.00	-97.48	194	26	Horizontal		
6	2402.00	98.11	9.87	0.00	-98.11	175	29	Horizontal		

Final Data List



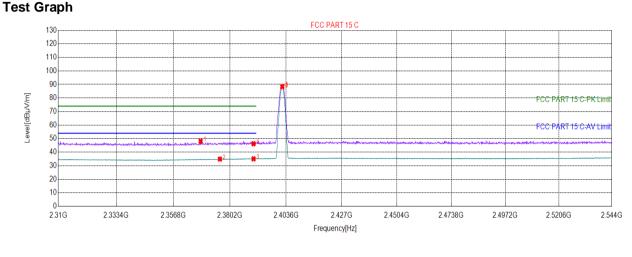
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BLE 1M Channel 0





Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2368.06	48.05	9.01	74.00	25.95	260	13	Vertical		
2	2376.02	34.90	9.23	54.00	19.10	241	332	Vertical		
3	2390.00	35.07	9.60	54.00	18.93	233	298	Vertical		
4	2390.00	46.23	9.60	74.00	27.77	284	301	Vertical		
5	2402.00	88.35	9.87	0.00	-88.35	291	217	Vertical		
6	2402.00	87.69	9.87	0.00	-87.69	273	217	Vertical		

Final Data List



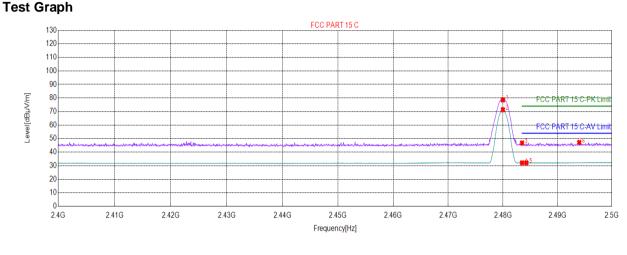
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BLE 1M Channel 39



- PK Limit - AV Limit ----- Vertical PK ----- Vertical AV ✤ PK Detector * AV Detector

Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2480.00	78.60	8.47	0.00	-78.60	208	31	Vertical		
2	2480.00	71.34	8.47	0.00	-71.34	203	52	Vertical		
3	2483.50	46.77	8.48	74.00	27.23	243	130	Vertical		
4	2483.50	32.11	8.48	54.00	21.89	290	154	Vertical		
5	2484.29	32.11	8.49	54.00	21.89	244	351	Vertical		
6	2493.99	47.20	8.59	74.00	26.80	276	302	Vertical		

Final Data List



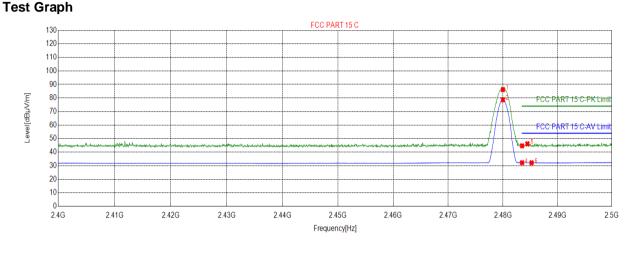
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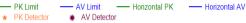
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BLE_1M_Channel 39





Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2480.00	86.24	8.47	0.00	-86.24	200	68	Horizontal		
2	2480.00	78.70	8.47	0.00	-78.70	271	45	Horizontal		
3	2483.50	44.68	8.48	74.00	29.32	246	261	Horizontal		
4	2483.50	32.21	8.48	54.00	21.79	255	301	Horizontal		
5	2484.49	46.15	8.49	74.00	27.85	236	269	Horizontal		
6	2485.24	32.15	8.49	54.00	21.85	291	265.0	Horizontal		

Final Data List

Remark:

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor All Modes have been tested, but only the worst case data displayed in this report.

The End



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