

Report No.: AR/2020/8000503

Page: 1 of 65

FCC TEST REPORT

Application No: AR/2020/80005

Applicant: Xiaomi Communications Co., Ltd.

Address of Applicant #019, 9th Floor, Building 6, 33 Xi'ergi Middle Road, Haidian District, Beijing,

China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer #019, 9th Floor, Building 6, 33 Xi'ergi Middle Road, Haidian District, Beijing,

China, 100085

EUT Description: Mobile Phone **Model No.:** M2007J22G

Trade Mark: Redmi

FCC ID: 2AFZZJ22G

Standards: 47 CFR FCC Part 2, Subpart J

47 CFR Part 15, Subpart C

Test Method KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10 (2013)

Date of Receipt: 2020/9/11

Date of Test: 2020/9/11 to 2020/10/12

Date of Issue: 2020/10/12

Test Result: PASS *

Authorized Signature:

Derole yang

Derek Yang Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: AR/2020/8000503

Page: 2 of 65

1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/10/12		Original

Authorized for issue by:		
Tested By	Mike Mu (Mike Hu) /Project Engineer	
Checked By	Dand Chen (David Chen) /Reviewer	



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Report No.: AR/2020/8000503

Page: 3 of 65

2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS



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Report No.: AR/2020/8000503

Page: 4 of 65

Contents

1	1 VERSION	2
2	2 TEST SUMMARY	
3		
9		
	3.1 CLIENT INFORMATION	
	3.2 TEST LOCATION	
	3.4 GENERAL DESCRIPTION OF EUT	
	3.5 TEST ENVIRONMENT	
	3.6 DESCRIPTION OF SUPPORT UNITS	
4		
	4.1 Antenna Requirement	8
	4.2 AC POWER LINE CONDUCTED EMISSIONS	
	4.3 Duty Cycle	
	4.3.1 Test Results	
	4.3.1 Test Plots	
	4.4 CONDUCTED OUTPUT POWER	
	4.4.1 Test Results	
	4.4.2 Test plots:	
	4.5 DTS (6 dB) BANDWIDTH & 99% OCCUPIED BANDWIDTH	
	4.5.1 Test Results	
	4.5.2 Test plots	
	4.6.1 Test Results	
	4.6.2 Test plots	
	4.7 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
	4.7.1 Test plots	
	4.8 Spurious RF Conducted Emissions	
	4.8.1 Test plots:	
	4.9 RADIATED SPURIOUS EMISSION	
	4.9.1 Radiated Emission below 1GHz	
	4.9.2 Transmitter Emission above 1GHz	44
	4.10 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
	4.10.1 Test plots	58
5	5 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2).	
6	6 EQUIPMENT LIST	63
7	7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	65



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Page: 5 of 65

3 General Information

3.1 Client Information

Applicant: Xiaomi Communications Co., Ltd.		
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian Beijing, China, 100085		
Manufacturer:	Xiaomi Communications Co., Ltd.	
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085	

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

3.3 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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Page: 6 of 65

3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2007J22G
Trade Mark:	Redmi
Hardware Version:	P2
Software Version:	MIUI12
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 V5.1 LE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	⊠ Portable Device,
Antenna Type:	PIFA Antenna
Antenna Gain:	0 dBi
Power Supply:	☐ AC/DC Adapter; ☐ Battery; ☐ PoE:; ☐ Other:

	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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Page: 7 of 65

3.5 Test Environment

Operating Environment		
Temperature:	25.0 °C	
Humidity:	50 % RH	
Atmospheric Pressure:	101.32 KPa	

3.6 Description of Support Units

The EUT has been tested independent unit.



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Page: 8 of 65

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 4

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 0dBi.



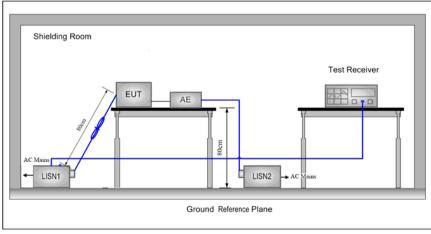
Report No.: AR/2020/8000503

Page: 9 of 65

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			
	Frequency range (MHz)	Limit (dBuV)		
	rrequency range (MHZ)	Quasi-peak	Average	
Limit:	0.15-0.5	66 to 56*	56 to 46*	
LITTIIL.	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarit	hm of the frequency.		
Test Procedure:	 The EUT was connected Stabilization Network) we power cables of all other which was bonded to the for the unit being measured multiple power cables to exceeded. The tabletop EUT was perference plane. And for horizontal ground reference EUT shall be 0.4 m from reference plane was born 1 was placed 0.8 m from ground reference plane. This distance was between the content of the EUT LISN 2. In order to find the maxing the was billing to the content of the EUT LISN 2. 	with a vertical ground reference to the vertical ground reference anded to the horizontal ground me the boundary of the unit of the LISNs mounted on top of the deen the closest points of the and associated equipment vertically mum emission, the relative points be changed according to	a LISN 1 (Line Impedance $+$ 5Ω linear impedance. The nected to a second LISN 2, the same way as the LISN 1 at strip was used to connect a rating of the LISN was not able 0.8m above the ground the EUT was placed on the ence plane. The rear of the e plane. The vertical ground direference plane. The LISN under test and bonded to a the ground reference plane. LISN 1 and the EUT. All was at least 0.8 m from the obsitions of equipment and all	
	Shielding Room			

Test Setup:





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Report No.: AR/2020/8000503

Page: 10 of 65

Test Mode: Transmitting with GFSK modulation. Charge +Transmitting mode.	
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



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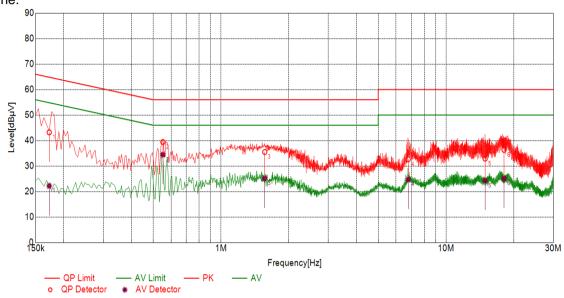
Page: 11 of 65

Measurement Data

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

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





Test Graph

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1726	10.10	43.22	64.84	21.62	22.21	54.84	32.63	L
2	0.5519	10.10	39.45	56.00	16.55	34.48	46.00	11.52	L
3	1.5651	10.10	35.48	56.00	20.52	25.13	46.00	20.87	L
4	6.7897	10.10	32.65	60.00	27.35	24.72	50.00	25.28	L
5	14.9073	10.11	32.91	60.00	27.09	24.28	50.00	25.72	L
6	18.0932	10.11	36.34	60.00	23.66	25.12	50.00	24.88	L



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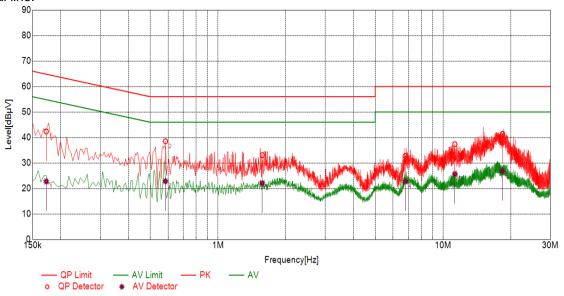
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Report No.: AR/2020/8000503

Page: 12 of 65

Neutral line:



Test Graph

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1726	10.10	42.38	64.84	22.46	22.75	54.84	32.09	N
2	0.5842	10.10	38.52	56.00	17.48	22.86	46.00	23.14	N
3	1.5723	10.10	33.10	56.00	22.90	22.07	46.00	23.93	N
4	6.7945	10.10	32.80	60.00	27.20	22.84	50.00	27.16	N
5	11.2923	10.10	37.35	60.00	22.65	25.70	50.00	24.30	N
6	18.3748	10.11	41.45	60.00	18.55	26.85	50.00	23.15	N

Remarks:

- 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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Report No.: AR/2020/8000503

Page: 13 of 65

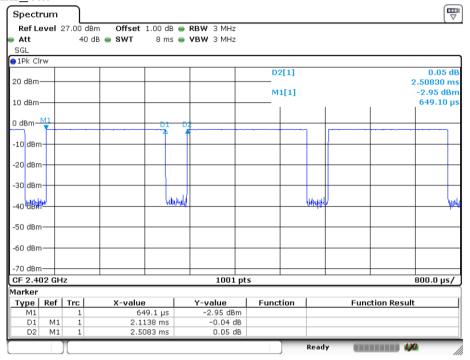
4.3 Duty Cycle

4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE_1M	CH0, CH19, CH39	84.27
BLE_2M	CH0, CH19, CH39	56.83

4.3.1 Test Plots

4.3.1.1 BLE_1M



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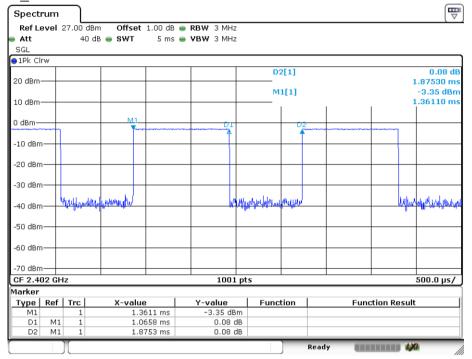
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4.3.1.2 BLE 2M



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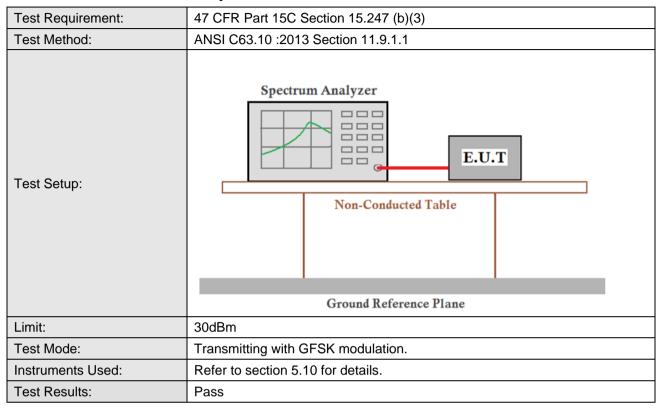
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Report No.: AR/2020/8000503

Page: 15 of 65

4.4 Conducted Output Power



4.4.1 Test Results

Measurement Data of Peak Power:

GFSK_1M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-2.82	30.00	Pass			
Middle	-1.76	30.00	Pass			
Highest	-2.52	30.00	Pass			

GFSK_2M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-2.81	30.00	Pass			
Middle	-1.78	30.00	Pass			
Highest	-2.51	30.00	Pass			



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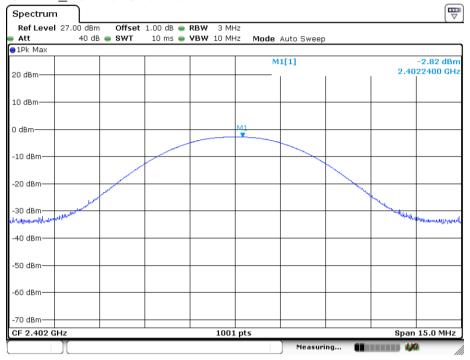


Report No.: AR/2020/8000503

Page: 16 of 65

4.4.2 Test plots:

4.4.2.1 GFSK 1M Lowest Channel



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4.4.2.2 GFSK 1M Middle Channel



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4.4.2.3 GFSK 1M_Highest Channel



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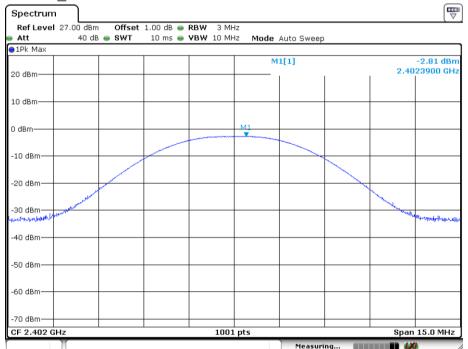
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Page: 17 of 65



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4.4.2.4 GFSK 2M_Lowest Channel



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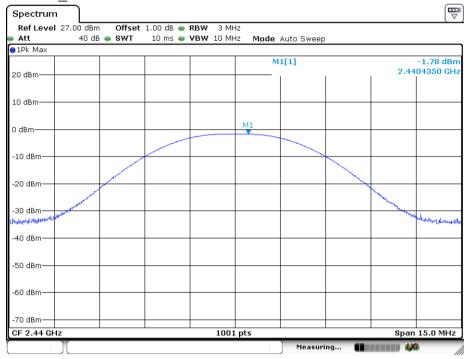
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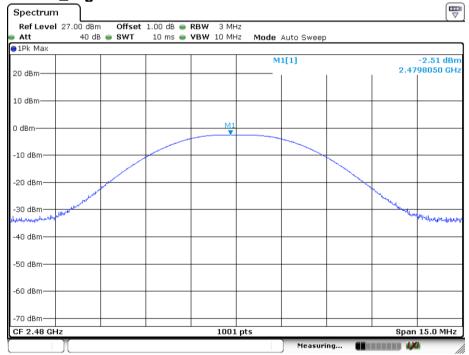
Page: 18 of 65

4.4.2.5 GFSK 2M Middle Channel



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4.4.2.6 GFSK 2M_Highest Channel



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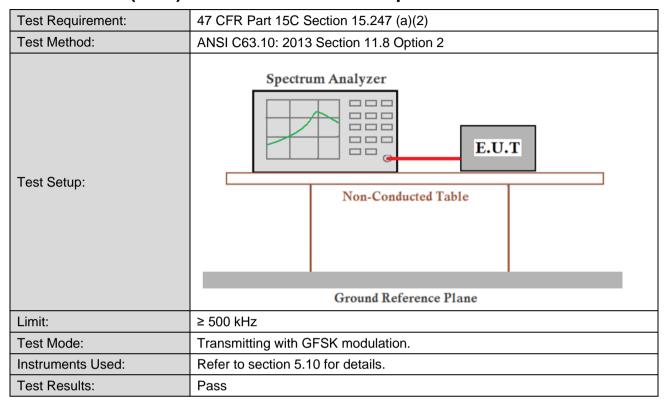
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Report No.: AR/2020/8000503

Page: 19 of 65

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



4.5.1 Test Results

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.03	0.68	≥500	Pass
GFSK_1M	Middle	1.03	0.67	≥500	Pass
	Highest	1.03	0.68	≥500	Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	2.08	1.24	≥500	Pass
GFSK_2M	Middle	2.08	1.26	≥500	Pass
	Highest	2.08	1.26	≥500	Pass



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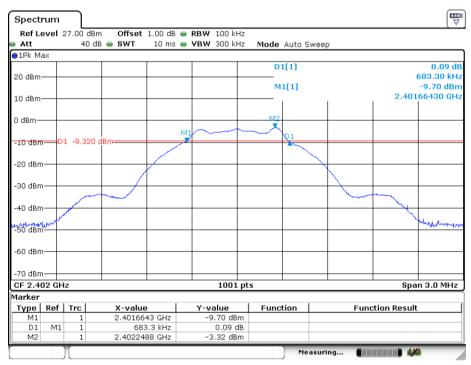
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4.5.2 Test plots

4.5.2.1 GFSK 1M_Lowest Channel



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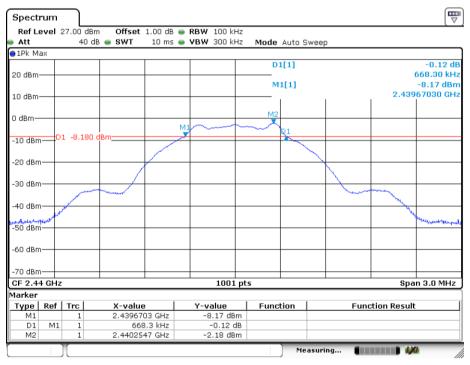
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4.5.2.2 GFSK 1M Middle Channel



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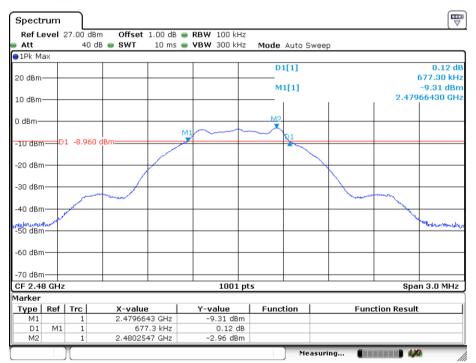
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4.5.2.3 GFSK 1M_Highest Channel



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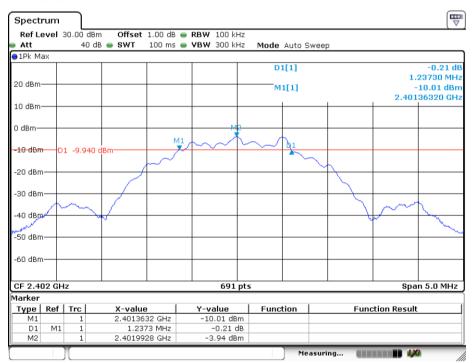
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4.5.2.4 GFSK 2M Lowest Channel



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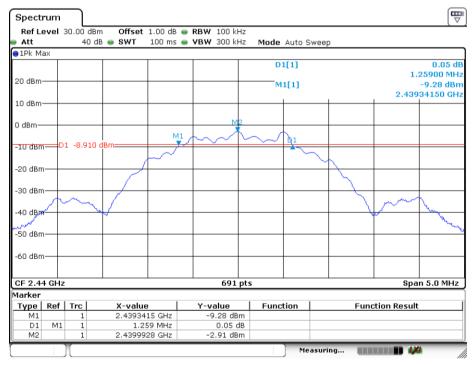
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4.5.2.5 GFSK 2M Middle Channel



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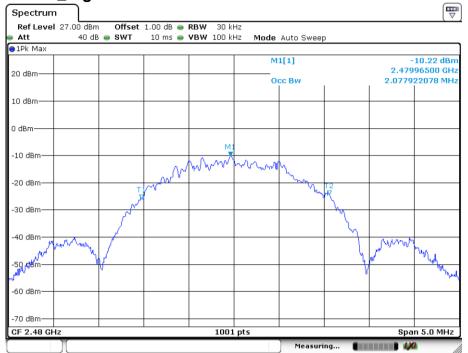
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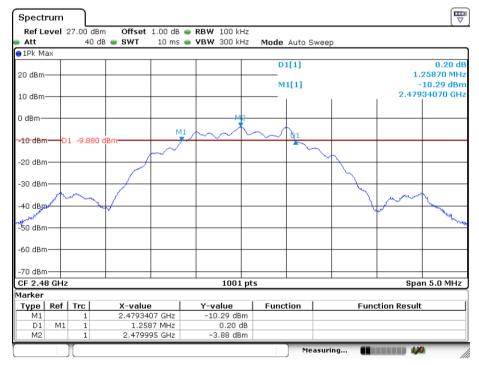
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Page: 25 of 65

4.5.2.6 GFSK 2M_Highest Channel



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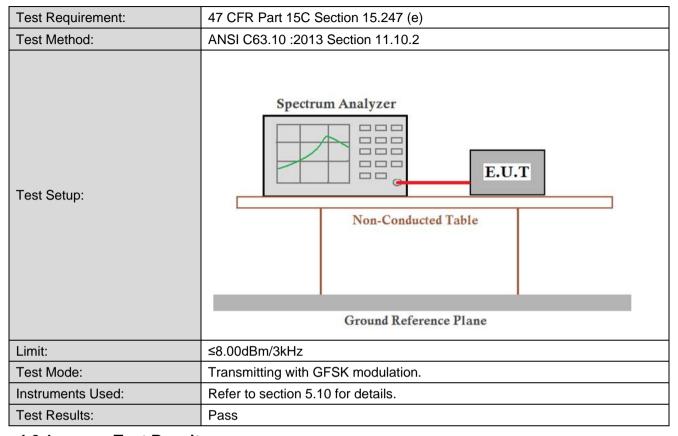
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Page: 26 of 65

4.6 Power Spectral Density



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-19.99	≤8.00	Pass
GFSK 1M	Middle	-18.87	≤8.00	Pass
_	Highest	-19.63	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-22.66	≤8.00	Pass
GFSK_2M	Middle	-21.52	≤8.00	Pass
	Highest	-22.29	≤8.00	Pass



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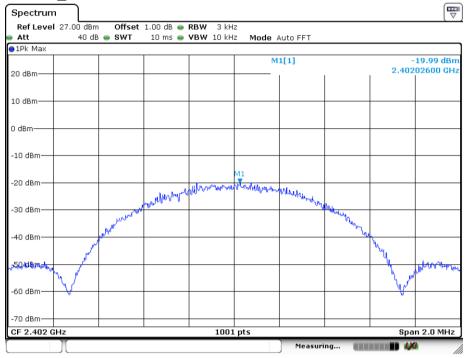


Report No.: AR/2020/8000503

Page: 27 of 65

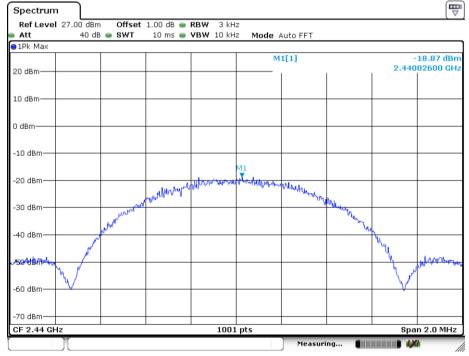
4.6.2 Test plots

4.6.2.1 GFSK 1M_Lowest Channel



Date: 20.SEP.2020 12:53:31

4.6.2.2 GFSK 1M Middle Channel



Date: 20.SEP.2020 12:53:46

4.6.2.3 GFSK 1M_Highest Channel



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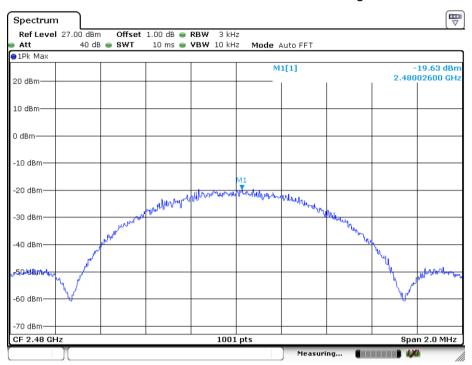
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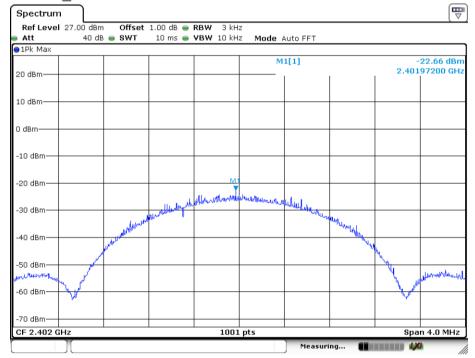
Report No.: AR/2020/8000503

Page: 28 of 65



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4.6.2.4 GFSK 2M_Lowest Channel



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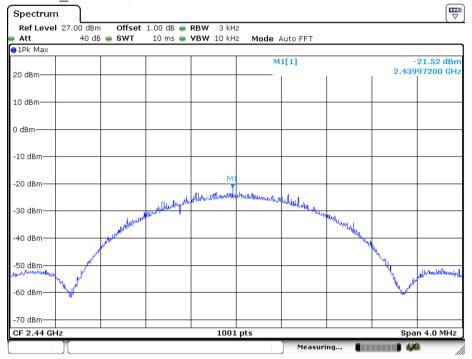
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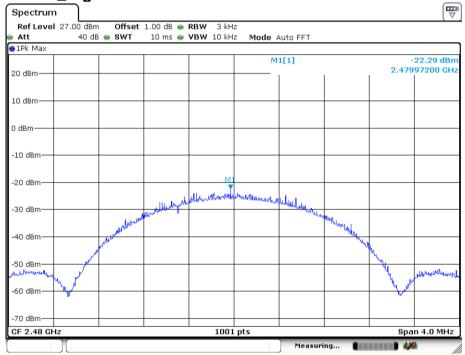
Page: 29 of 65

4.6.2.5 GFSK 2M Middle Channel



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4.6.2.6 GFSK 2M_Highest Channel



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Page: 30 of 65

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 11.13			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
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 Mode:	Transmitting with GFSK modulation.			
Instruments Used:	Refer to section 5.10 for details.			
Test Results:	Pass			



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Page: 31 of 65

4.7.1 Test plots 4.7.1.1 GFSK 1M_Lowest Channel



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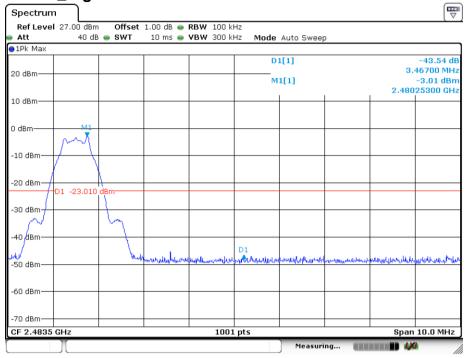
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Page: 32 of 65

4.7.1.2 GFSK 1M_Highest Channel



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4.7.1.3 GFSK 2M Lowest Channel



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4.7.1.4 GFSK 2M_Highest Channel



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Page: 34 of 65

4.8 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10: 2013 Section 11.11			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
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 Mode:	Transmitting with GFSK modulation.			
Instruments Used:	Refer to section 5.10 for details.			
Test Results:	Pass			



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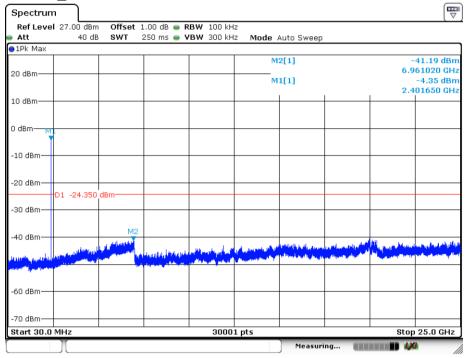


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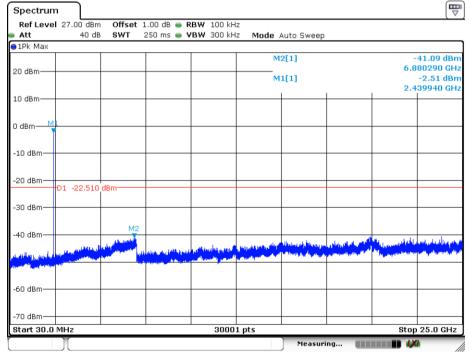
4.8.1 Test plots:

4.8.1.1 GFSK 1M Lowest Channel



Date: 20.SEP.2020 13:03:44

4.8.1.2 GFSK 1M Middle Channel



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4.8.1.3 GFSK 1M_Highest Channel



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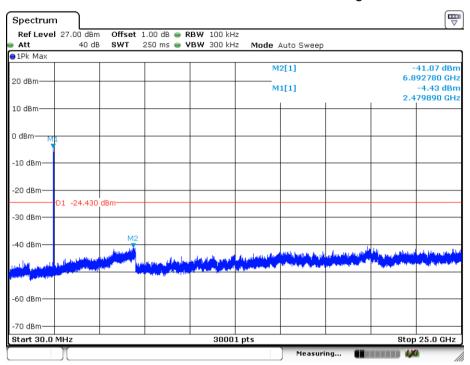
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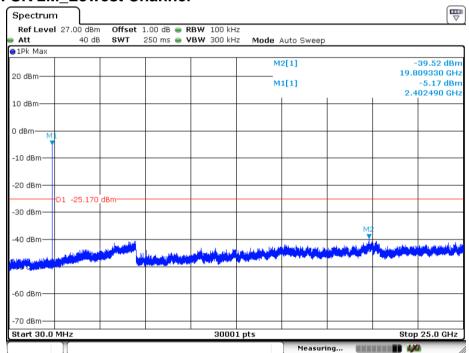
Report No.: AR/2020/8000503

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4.8.1.4 GFSK 2M_Lowest Channel



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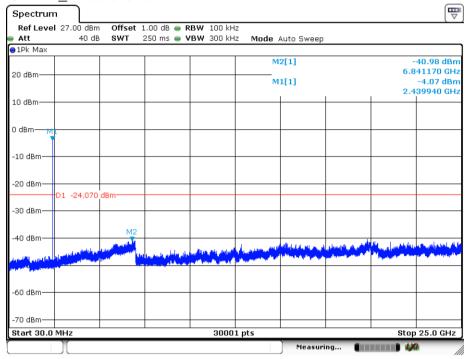
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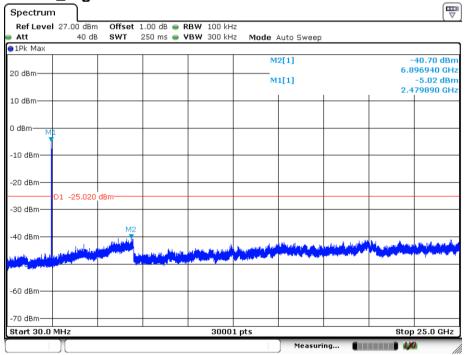
Page: 37 of 65

4.8.1.5 GFSK 2M Middle Channel



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4.8.1.6 GFSK 2M_Highest Channel



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Report No.: AR/2020/8000503

Page: 38 of 65

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.



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Report No.: AR/2020/8000503

Page: 39 of 65

Radiated Spurious Emission 4.9

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 or 10m (Semi-Anechoic Chamber)									
	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					
Doggiver Catura	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak					
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average					
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	Above IGHZ	Peak	1MHz	10Hz	Average					
	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					
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3					
	216MHz-960MHz	200	46.0	Quasi-peak	3					
	960MHz-1GHz	500	54.0	Quasi-peak	3					
	Above 1GHz	500	54.0	Average	3					
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.									

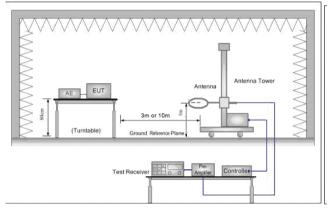




Report No.: AR/2020/8000503

Page: 40 of 65

Test Setup:



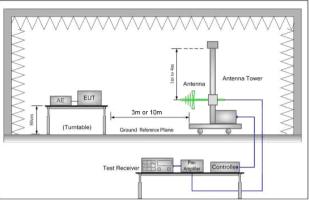


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

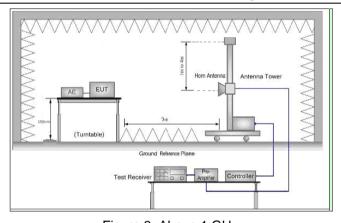


Figure 3. Above 1 GHz

- 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. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured:
 - (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW≥ RBW; Sweep = auto;
 - Detector function = peak; Trace = max hold for peak



Test Procedure:

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Report No.: AR/2020/8000503

Page: 41 of 65

	(3) For average measurement: use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time/100 milliseconds 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 (2402MHz),the middle channel
	(2440MHz),the Highest channel (2480MHz)
	j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	k. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation.
Exploratory rest wede.	Charge + Transmitting mode.
	Transmitting with GFSK modulation.
Final Test Mode:	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 5.10 for details.
Test Results:	Pass



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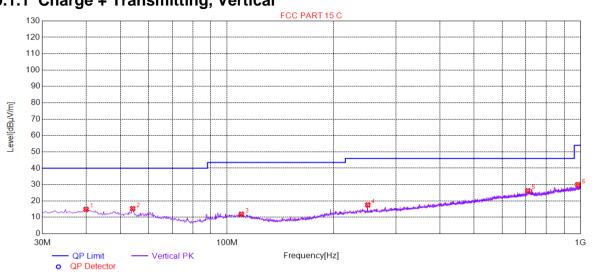
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Report No.: AR/2020/8000503

Page: 42 of 65

4.9.1 **Radiated Emission below 1GHz** 4.9.1.1 Charge + Transmitting, Vertical



Suspected List

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	39.8960	14.85	-28.37	40.00	25.15	100	83	Vertical			
2	54.0608	15.32	-30.98	40.00	24.68	100	332	Vertical			
3	109.7500	11.90	-32.00	43.50	31.60	100	40	Vertical			
4	250.0400	17.62	-29.66	46.00	28.38	100	14	Vertical			
5	709.5239	26.26	-19.29	46.00	19.74	100	83	Vertical			
6	982.7305	29.96	-15.03	54.00	24.04	100	297	Vertical			

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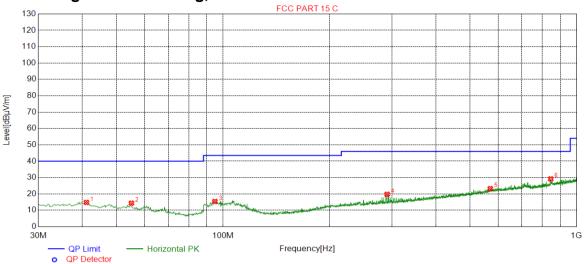
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Report No.: AR/2020/8000503

Page: 43 of 65

4.9.1.2 Charge + Transmitting, Horizontal



Suspected List

Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	41.0602	14.81	-28.78	40.00	25.19	200	237	Horizontal				
2	55.0310	14.38	-31.12	40.00	25.62	200	277	Horizontal				
3	94.8090	15.40	-32.92	43.50	28.10	200	335	Horizontal				
4	291.1762	19.80	-28.60	46.00	26.20	100	246	Horizontal				
5	570.2040	23.24	-21.47	46.00	22.76	100	22	Horizontal				
6	845.1570	29.20	-16.97	46.00	16.80	100	278	Horizontal				

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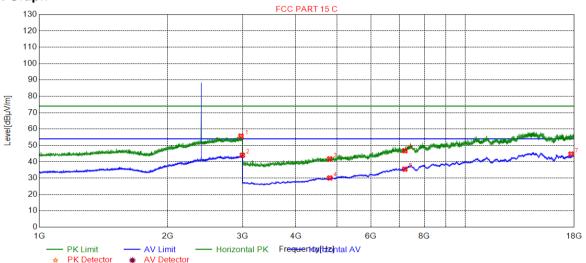
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Report No.: AR/2020/8000503

Page: 44 of 65

4.9.2 Transmitter Emission above 1GHz 4.9.2.1 BLE 1M Channel 0

Test Graph



Suspected List

Cusp	ected List											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2973.4934	55.66	9.57	74.00	18.34	150	183	Horizontal				
2	2995.9990	44.00	9.47	54.00	10.00	150	18	Horizontal				
3	4804.0000	41.75	-18.30	74.00	32.25	150	128	Horizontal				
4	4804.0000	30.08	-18.30	54.00	23.92	150	101	Horizontal				
5	7206.0000	35.49	-9.82	54.00	18.51	150	210	Horizontal				
6	7206.0000	46.71	-9.82	74.00	27.29	150	73	Horizontal				
7	17690.9691	44.71	-0.64	54.00	9.29	150	210	Horizontal				

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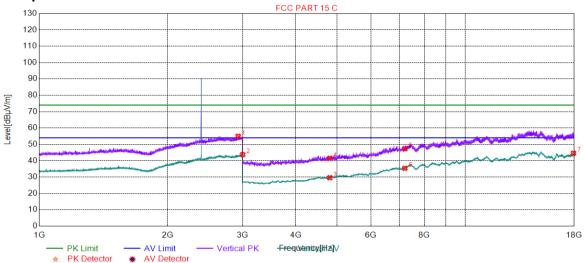


Report No.: AR/2020/8000503

Page: 45 of 65

4.9.2.2 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	2928.4821	54.98	9.45	74.00	19.02	150	123	Vertical			
2	3000.0000	43.74	9.45	54.00	10.26	150	329	Vertical			
3	4804.0000	29.63	-18.30	54.00	24.37	150	259	Vertical			
4	4804.0000	41.53	-18.30	74.00	32.47	150	232	Vertical			
5	7206.0000	47.31	-9.82	74.00	26.69	150	177	Vertical			
6	7206.0000	35.38	-9.82	54.00	18.62	150	150	Vertical			
7	17923.4923	44.64	-1.30	54.00	9.36	150	205	Vertical			

Final Data List



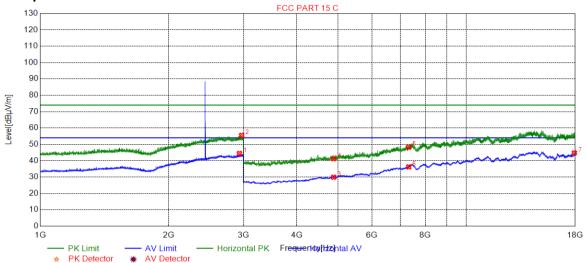


Report No.: AR/2020/8000503

Page: 46 of 65

4.9.2.3 BLE 1M Channel 19

Test Graph



Suspected List

Suspi	Suspected List											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2932.9832	44.48	9.50	54.00	9.52	150	140	Horizontal				
2	2966.9917	55.50	9.60	74.00	18.50	150	289	Horizontal				
3	4880.0000	29.94	-17.96	54.00	24.06	150	318	Horizontal				
4	4880.0000	41.24	-17.96	74.00	32.76	150	45	Horizontal				
5	7320.0000	48.25	-9.54	74.00	25.75	150	318	Horizontal				
6	7320.0000	36.24	-9.54	54.00	17.76	150	264	Horizontal				
7	17911.4911	44.77	-1.31	54.00	9.23	150	73	Horizontal				

Final Data List



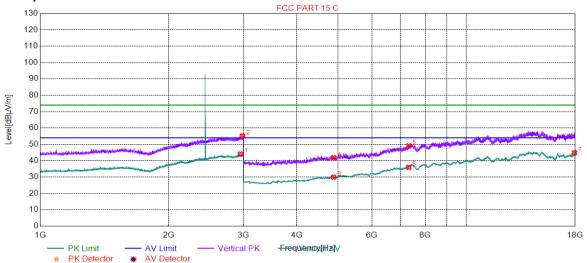


Report No.: AR/2020/8000503

Page: 47 of 65

4.9.2.4 BLE 1M Channel 19

Test Graph



Suspected List

Ouspi	ected List											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2947.9870	44.13	9.66	54.00	9.87	150	12	Vertical				
2	2982.4956	55.24	9.53	74.00	18.76	150	219	Vertical				
3	4880.0000	29.97	-17.96	54.00	24.03	150	14	Vertical				
4	4880.0000	41.86	-17.96	74.00	32.14	150	342	Vertical				
5	7320.0000	49.06	-9.54	74.00	24.94	150	232	Vertical				
6	7320.0000	36.01	-9.54	54.00	17.99	150	95	Vertical				
7	17926.4926	44.88	-1.30	54.00	9.12	150	205	Vertical				

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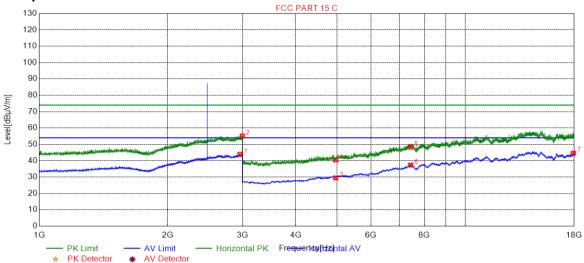


Report No.: AR/2020/8000503

Page: 48 of 65

4.9.2.5 BLE 1M Channel 39

Test Graph



Suspected List

Ouspi	ected List											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2959.4899	43.95	9.64	54.00	10.05	150	18	Horizontal				
2	2995.4989	55.16	9.47	74.00	18.84	150	32	Horizontal				
3	4960.0000	29.52	-17.47	54.00	24.48	150	210	Horizontal				
4	4960.0000	40.43	-17.47	74.00	33.57	150	101	Horizontal				
5	7440.0000	48.27	-9.02	74.00	25.73	150	210	Horizontal				
6	7440.0000	37.34	-9.02	54.00	16.66	150	238	Horizontal				
7	17914.4914	44.61	-1.31	54.00	9.39	150	347	Horizontal				

Final Data List



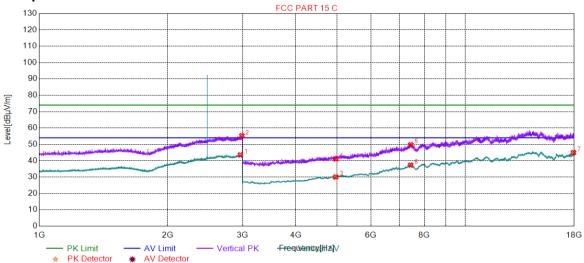


Report No.: AR/2020/8000503

Page: 49 of 65

4.9.2.6 BLE 1M_Channel 39

Test Graph



Suspected List

Ouspi	ected List											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2964.9912	43.56	9.61	54.00	10.44	150	26	Vertical				
2	2987.9970	55.27	9.51	74.00	18.73	150	150	Vertical				
3	4960.0000	30.03	-17.47	54.00	23.97	150	314	Vertical				
4	4960.0000	41.09	-17.47	74.00	32.91	150	12	Vertical				
5	7440.0000	49.72	-9.02	74.00	24.28	150	314	Vertical				
6	7440.0000	37.31	-9.02	54.00	16.69	150	67	Vertical				
7	17926.4926	44.99	-1.30	54.00	9.01	150	12	Vertical				

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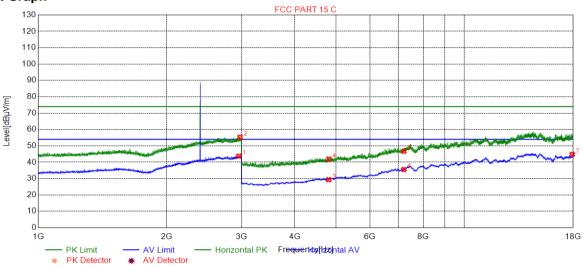
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Report No.: AR/2020/8000503

Page: 50 of 65

4.9.2.7 BLE 2M Channel 0

Test Graph



Suspected List

Susp	Suspected List											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2955.9890	43.75	9.65	54.00	10.25	150	224	Horizontal				
2	2973.4934	55.37	9.57	74.00	18.63	150	266	Horizontal				
3	4804.0000	29.34	-18.30	54.00	24.66	150	100	Horizontal				
4	4804.0000	41.94	-18.30	74.00	32.06	150	72	Horizontal				
5	7206.0000	46.72	-9.82	74.00	27.28	150	45	Horizontal				
6	7206.0000	35.55	-9.82	54.00	18.45	150	320	Horizontal				
7	17896.4896	44.83	-1.36	54.00	9.17	150	155	Horizontal				

Final Data List



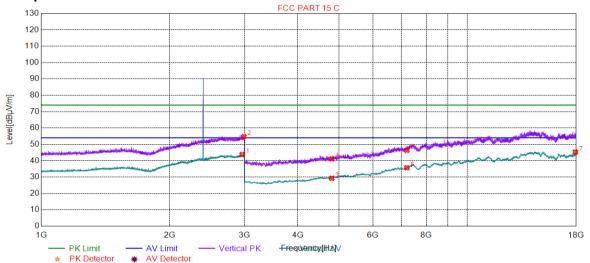


Report No.: AR/2020/8000503

Page: 51 of 65

4.9.2.8 BLE 2M Channel 0

Test Graph



Suspected List

Ouspi	ECIEU LISI											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2960.4901	43.80	9.63	54.00	10.20	150	342	Vertical				
2	2986.9967	54.73	9.51	74.00	19.27	150	94	Vertical				
3	4804.0000	29.31	-18.30	54.00	24.69	150	178	Vertical				
4	4804.0000	41.12	-18.30	74.00	32.88	150	342	Vertical				
5	7206.0000	46.41	-9.82	74.00	27.59	150	342	Vertical				
6	7206.0000	35.70	-9.82	54.00	18.30	150	69	Vertical				
7	17912.9913	45.32	-1.31	54.00	8.68	150	0	Vertical				

Final Data List



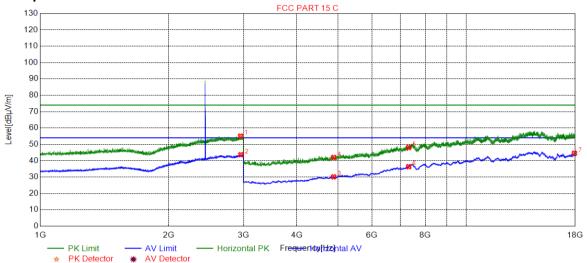


Report No.: AR/2020/8000503

Page: 52 of 65

4.9.2.9 BLE 2M_Channel 19

Test Graph



Suspected List

Ouspi	ected List										
Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2951.4879	55.04	9.67	74.00	18.96	150	183	Horizontal			
2	2956.4891	43.68	9.65	54.00	10.32	150	18	Horizontal			
3	4880.0000	30.15	-17.96	54.00	23.85	150	236	Horizontal			
4	4880.0000	42.03	-17.96	74.00	31.97	150	360	Horizontal			
5	7320.0000	48.09	-9.54	74.00	25.91	150	127	Horizontal			
6	7320.0000	36.39	-9.54	54.00	17.61	150	318	Horizontal			
7	17921.9922	44.57	-1.30	54.00	9.43	150	182	Horizontal			

Final Data List



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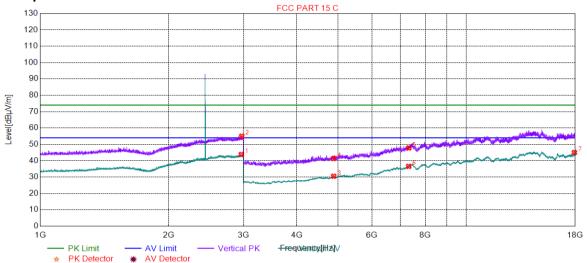


Report No.: AR/2020/8000503

Page: 53 of 65

4.9.2.10 **BLE 2M Channel 19**

Test Graph



Suspected List

Juspi	ected List							
Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2962.4906	43.81	9.62	54.00	10.19	150	150	Vertical
2	2969.9925	55.02	9.59	74.00	18.98	150	342	Vertical
3	4880.0000	30.54	-17.96	54.00	23.46	150	179	Vertical
4	4880.0000	41.36	-17.96	74.00	32.64	150	342	Vertical
5	7320.0000	47.79	-9.54	74.00	26.21	150	261	Vertical
6	7320.0000	36.57	-9.54	54.00	17.43	150	14	Vertical
7	17915.9916	45.04	-1.31	54.00	8.96	150	0	Vertical

Final Data List



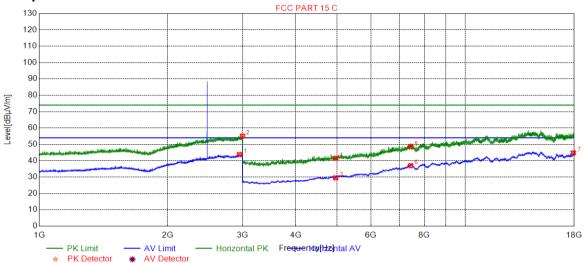


Report No.: AR/2020/8000503

Page: 54 of 65

4.9.2.11 **BLE 2M Channel 39**

Test Graph



Suspected List

Ouspi	ected List										
Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2947.9870	43.83	9.66	54.00	10.17	150	266	Horizontal			
2	2997.9995	55.10	9.46	74.00	18.90	150	18	Horizontal			
3	4960.0000	29.56	-17.47	54.00	24.44	150	156	Horizontal			
4	4960.0000	41.54	-17.47	74.00	32.46	150	73	Horizontal			
5	7440.0000	48.44	-9.02	74.00	25.56	150	210	Horizontal			
6	7440.0000	36.97	-9.02	54.00	17.03	150	183	Horizontal			
7	17909.9910	44.84	-1.31	54.00	9.16	150	101	Horizontal			

Final Data List



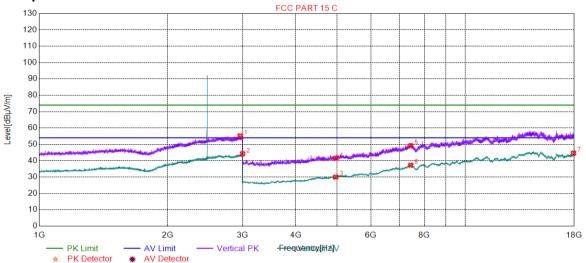


Report No.: AR/2020/8000503

Page: 55 of 65

4.9.2.12 BLE 2M_Channel 39

Test Graph



Suspected List

Juspi	ecteu List							
Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.4901	55.18	9.63	74.00	18.82	150	12	Vertical
2	2998.9998	44.26	9.45	54.00	9.74	150	232	Vertical
3	4960.0000	30.03	-17.47	54.00	23.97	150	122	Vertical
4	4960.0000	41.53	-17.47	74.00	32.47	150	149	Vertical
5	7440.0000	49.16	-9.02	74.00	24.84	150	177	Vertical
6	7440.0000	37.25	-9.02	54.00	16.75	150	40	Vertical
7	17927.9928	44.66	-1.30	54.00	9.34	150	260	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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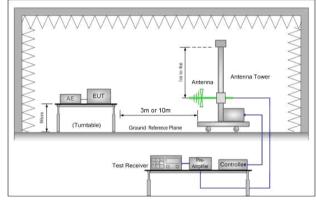
Report No.: AR/2020/8000503

56 of 65 Page:

4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Sec	tion 11.12		
Test Site:	Measurement Distance:	3m or 10m (Semi-Anechoic	Chamber)	
	Frequency	Limit (dBuV/m @3m)	Remark	
	30MHz-88MHz	40.0	Quasi-peak Value	
	88MHz-216MHz	43.5	Quasi-peak Value	
Limit:	216MHz-960MHz	46.0	Quasi-peak Value	
	960MHz-1GHz	54.0	Quasi-peak Value	
	Above 1GHz	54.0	Average Value	
	Above IGHZ	74.0	Peak Value	
Toot Sotup:		•		





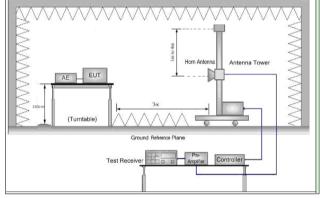


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

- 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.
- 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.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- Test the EUT in the lowest channel, the Highest channel



Test Procedure:

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Report No.: AR/2020/8000503

Page: 57 of 65

	 i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. 					
Exploratory Test Mode:	Transmitting with GFSK modulation.					
, ,	Charge + Transmitting mode.					
	Transmitting with GFSK modulation.					
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode.					
	Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details.					
Test Results:	Pass					



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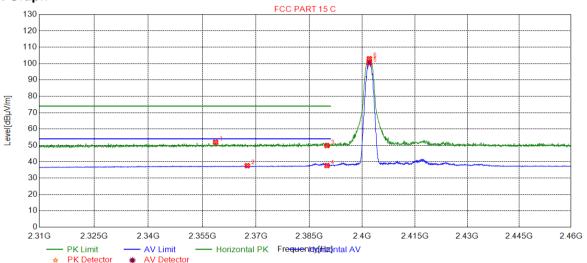


Report No.: AR/2020/8000503

Page: 58 of 65

4.10.1 **Test plots BLE 1M Channel 0** 4.10.1.1

Test Graph



Suspected List

<u> </u>	Odopeoted Eist								
Suspe	ected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2358.6994	51.94	7.80	74.00	22.06	150	144	Horizontal	
2	2367.5538	37.58	7.79	54.00	16.42	150	226	Horizontal	
3	2390.0000	49.88	7.77	74.00	24.12	150	216	Horizontal	
4	2390.0000	37.70	7.77	54.00	16.30	150	216	Horizontal	
5	2402.0000	100.36	7.77	0.00	-100.36	150	226	Horizontal	
6	2402.0000	102.99	7.77	0.00	-102.99	150	221	Horizontal	

Final Data List



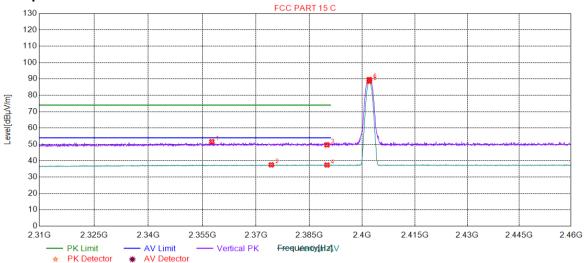


Report No.: AR/2020/8000503

Page: 59 of 65

BLE 1M Channel 0 4.10.1.2

Test Graph



Suspected List

Оиорс	Odspected List									
Suspe	ected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2357.6488	51.64	7.80	74.00	22.36	150	234	Vertical		
2	2374.3072	37.48	7.79	54.00	16.52	150	168	Vertical		
3	2390.0000	49.68	7.77	74.00	24.32	150	97	Vertical		
4	2390.0000	37.39	7.77	54.00	16.61	150	70	Vertical		
5	2402.0000	88.55	7.77	0.00	-88.55	150	97	Vertical		
6	2402.0000	89.68	7.77	0.00	-89.68	150	152	Vertical		

Final Data List



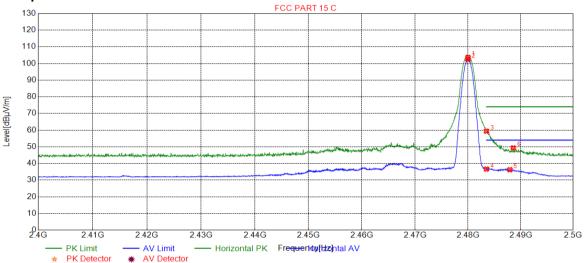


Report No.: AR/2020/8000503

Page: 60 of 65

BLE 1M Channel 39 4.10.1.3

Test Graph



Suspected List

Ouspe	CIEU LISI							
Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	103.65	8.01	0.00	-103.65	150	238	Horizontal
2	2480.0000	102.52	8.01	0.00	-102.52	150	248	Horizontal
3	2483.5000	59.40	8.01	74.00	14.60	150	232	Horizontal
4	2483.5000	36.67	8.01	54.00	17.33	150	238	Horizontal
5	2487.9440	36.27	8.02	54.00	17.73	150	238	Horizontal
6	2488.5943	49.34	8.02	74.00	24.66	150	238	Horizontal

Final Data List



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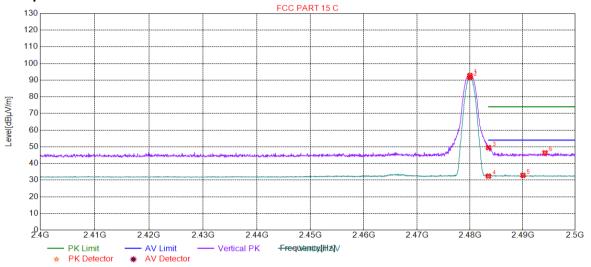


Report No.: AR/2020/8000503

Page: 61 of 65

4.10.1.4 BLE 1M_Channel 39

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	2480.0000	92.78	8.01	0.00	-92.78	150	210	Vertical		
2	2480.0000	91.71	8.01	0.00	-91.71	150	171	Vertical		
3	2483.5000	49.52	8.01	74.00	24.48	150	74	Vertical		
4	2483.5000	32.44	8.01	54.00	21.56	150	171	Vertical		
5	2490.0450	32.91	8.02	54.00	21.09	150	171	Vertical		
6	2494.2471	46.35	8.02	74.00	27.65	150	177	Vertical		

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.



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Report No.: AR/2020/8000503

Page: 62 of 65

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

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.75dB		
2	RF power density, conducted	±2.84dB		
3	Spurious emissions, conducted	±0.75dB		
4	Padiated Spurious emission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spurious emission test	±4.8dB (1GHz-25GHz)		
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)		
6	Temperature test	±1°C		
7	Humidity test	±3%		
8	DC and low frequency voltages	±0.5%		



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Report No.: AR/2020/8000503

Page: 63 of 65

6 Equipment List

	Condu	cted Emission			
			Inventory	Cal. date	Cal.Duedate
Test Equipment	Manufacturer	Model No.	No.	(yyyy-mm- dd)	(yyyy-mm- dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate			
				(yyyy-mm- dd)	(yyyy-mm- dd)			
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2020/7/15	2021/7/15			
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2			
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11			
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14			
Temperature Chamber	GIANT FORCE	ICT-150-40- CP-AR	W027-03	2019/10/27	2020/10/27			
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14			





Report No.: AR/2020/8000503

Page: 64 of 65

			raye.	04 01 03			
	RI	E in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date		
				(yyyy-mm- dd)	(yyyy-mm- dd)		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001- 02	2018/3/13	2021/3/12		
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026- 01	2020/6/12	2021/6/11		
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004- 09	2020/3/12	2021/3/11		
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003- 01	2020/6/27	2023/6/26		
Horn Antenna (0.8- 18GHz)	Rohde & Schwarz	HF907	SEM003- 07	2018/4/13	2021/4/12		
Pre-amplifier(0.1- 1.3GHz)	HP	8447D	SEM005- 02	2020/7/14	2021/7/14		
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005- 05	2020/9/3	2021/9/2		
Horn Antenna (15- 40GHz)	Schwarzbeck	BBHA 9170	SEM003- 15	2017/10/17	2020/10/16		
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005- 17	2020/3/2	2021/3/1		
Band filter	N/A	N/A	SEM023- 01	N/A	N/A		
RE in Chamber							
Tool Familian and	t Manufacturer Model No.	Model No	Inventory No.	Cal. date	Cal.Due date		
Test Equipment		Wiodel No.		(yyyy-mm- dd)	(yyyy-mm- dd)		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001- 01	2020/8/5	2023/8/4		
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025- 01	2020/6/12	2021/6/11		
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004- 05	2020/7/14	2021/7/14		
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003- 01	2020/6/27	2023/6/26		
Pre-amplifier (0.1- 1.3GHz)	Agilent Technologies	8447D	SEM005- 01	2020/3/2	2021/3/1		



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Report No.: AR/2020/8000503

Page: 65 of 65

RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30			
EMI Test Receiver (9k- 7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1			
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14			
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11			
Loop Antenna (9kHz- 30MHz)	ETS-Lindgren	6502	SEM003-08	2020/8/22	2023/8/21			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2020/6/12	2021/6/11			

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for AR/2020/80005.

The End



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