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FCC TEST REPORT

Test Result:	PASS *
Date of Issue:	2020/7/4
Date of Test:	2020/6/10 to 2020/6/22
Date of Receipt:	2020/6/10
Test Method	KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10 (2013)
Stanuarus.	47 CFR Part 15, Subpart C
FCC ID: Standards:	2AFZZC3MNG 47 CFR FCC Part 2, Subpart J
Trade Mark:	Redmi
Model No.:	M2006C3MNG
EUT Description:	Mobile Phone
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Applicant:	Xiaomi Communications Co., Ltd.
Application No:	ZR/2020/50046

In the configuration tested, the EUT 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			
00		2020/7/4		Original			

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



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2 Test Summary

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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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1		



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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 District, 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 17025:2005 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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oratory.	中国・深圳・科技园中区M-10栋一号厂房	邮编: 518057	t (86-755) 26012053	f (86-755) 26710594	sgs.china@sgs.com	

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3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2006C3MNG
Trade Mark:	Redmi
Hardware Version:	P2
Software Version:	MIUI 12
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 V5.0 LE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	⊠ Portable Device,
Antenna Type:	External, 🛛 Integrated
Antenna Gain:	1.0dBi
Power Supply:	AC/DC Adapter; Battery; PoE:; Other:

	Operation Frequency of each channel							
Channel Frequency Channel Frequency Channel Frequ				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:

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

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



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3.5 Test Environment

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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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 1.0dBi.



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4.2 AC POV	ver Line Conducted	LIII33I0II3					
Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz					
	Frequency range (MHz)	Limit (dBuV)					
	Frequency range (MHZ)	Quasi-peak	Average				
Limite	0.15-0.5	66 to 56*	56 to 46*				
Limit:	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarith	nm of the frequency.					
Test Procedure:	 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 						
Test Setup:	Shielding Room		est Receiver				

4.2 AC Power Line Conducted Emissions

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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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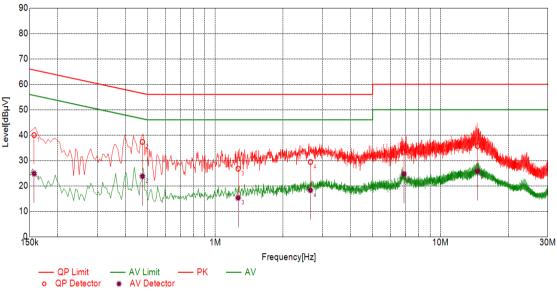
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Measurement Data

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

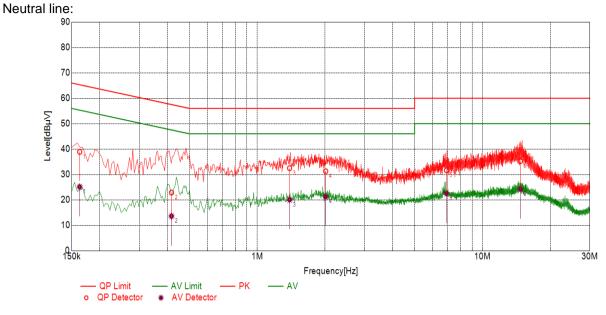
Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1571	10.10	40.01	65.62	25.61	24.85	55.62	30.77	L
2	0.4755	10.10	37.32	56.42	19.10	23.79	46.42	22.63	L
3	1.2645	10.10	26.77	56.00	29.23	15.32	46.00	30.68	L
4	2.6479	10.10	29.41	56.00	26.59	18.32	46.00	27.68	L
5	6.8874	10.10	33.39	60.00	26.61	24.72	50.00	25.28	L
6	14.6063	10.11	35.69	60.00	24.31	25.80	50.00	24.20	L



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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	0.1630	10.10	38.90	65.31	26.41	25.13	55.31	30.18	N
2	0.4166	10.10	22.86	57.51	34.65	13.60	47.51	33.91	N
3	1.3929	10.10	32.48	56.00	23.52	20.04	46.00	25.96	N
4	2.0146	10.10	31.28	56.00	24.72	21.24	46.00	24.76	Ν
5	6.9252	10.10	31.67	60.00	28.33	22.50	50.00	27.50	Ν
6	14.7413	10.11	35.25	60.00	24.75	24.23	50.00	25.77	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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4.3 Duty Cycle

4.3.1.1

4.3.1	Test Results		
Test Mode		TX Freq. [MHz]	Duty cycle [%]
BLE_1M		CH0, CH19, CH39	84.76
BLE_1M		CH0, CH19, CH39	57.29

4.3.1 Test Plots

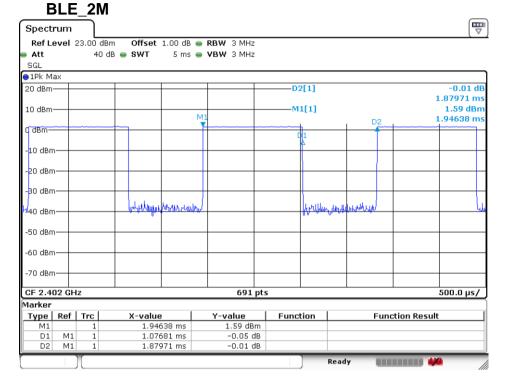
BLE 1M T Spectrum Ref Level 23.00 dBm Offset 1.00 dB 👄 RBW 3 MHz Att 40 dB 👄 SWT 8 ms 🔵 VBW 3 MHz SGL 😑 1Pk Max 20 dBm -D2[1] 0.03 dE 2.5101 m M1[1] 1.71 dBm 10 dBm M1 1.0261 ms D: 0 dBm· -10 dBm--20 dBm -30 dBm -40 dBm -50 dBm--60 dBm -70 dBm-800.0 µs/ CF 2.402 GHz 691 pts Marker Type | Ref | Trc | X-value Y-value Function Function Result 1.0261 ms M1 1.71 dBm D1 М1 2.1275 ms 0.05 dB D2 M1 2.5101 ms 0.03 dB Ready -----

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4.3.1.2



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Test Requirement: 47 CFR Part 15C Section 15.247 (b)(3) Test Method: ANSI C63.10 :2013 Section 11.9.1.1 Spectrum Analyzer E.U.T 6 Test Setup: **Non-Conducted** Table **Ground Reference Plane** Limit: 30dBm Test Mode: Transmitting with GFSK modulation. Instruments Used: Refer to section 5.10 for details. Test Results: Pass

4.4 Conducted Output Power

4.4.1 **Test Results** Measurement Data of Average Power

GFSK_1M mode						
Test channel	Average Output Power (dBm)	Result				
Lowest	0.11	Report purpose only				
Middle	0.62	Report purpose only				
Highest	0.34	Report purpose only				

GFSK_2M mode					
Test channel	Average Output Power (dBm)	Result			
Lowest	0.17	Report purpose only			
Middle	0.22	Report purpose only			
Highest	0.25	Report purpose only			



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Measurement Data of Peak Power:

GFSK_1M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	1.96	30.00	Pass			
Middle	3.08	30.00	Pass			
Highest	1.79	30.00	Pass			

GFSK_2M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	1.94	30.00	Pass			
Middle	3.06	30.00	Pass			
Highest	1.79	30.00	Pass			

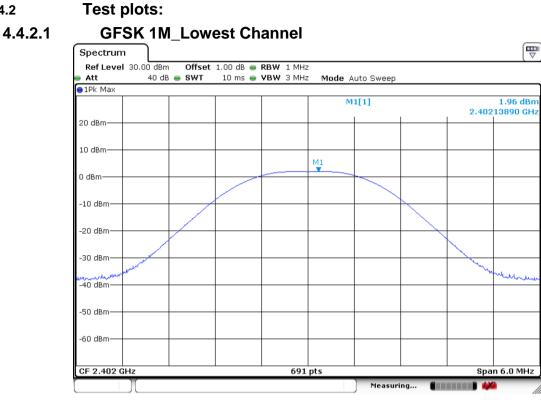


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4.4.2

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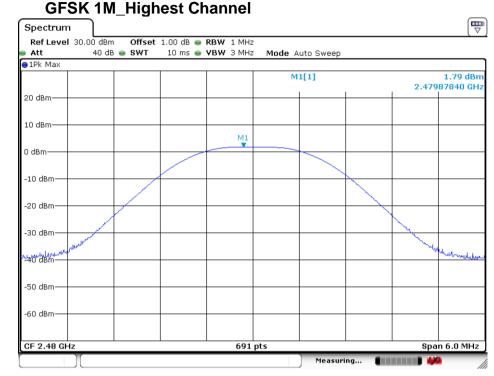


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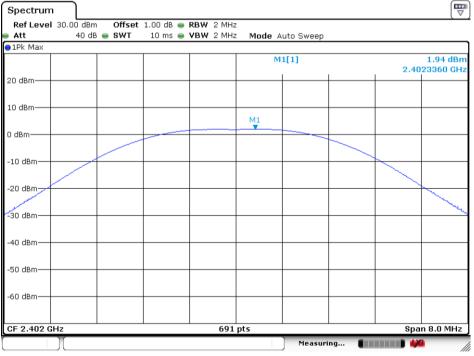


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4.4.2.3



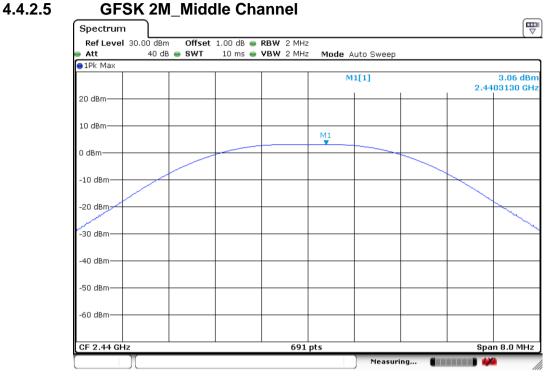


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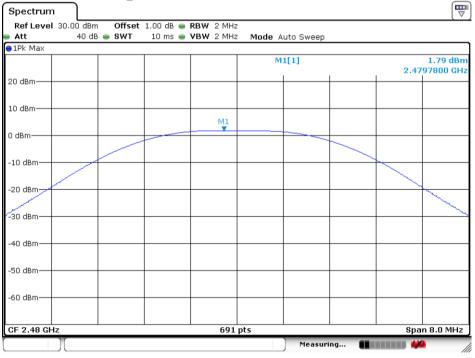
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Limit:	≥ 500 kHz		
Test Mode:	Transmitting with GFSK modulation.		
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		

4.5.1

Test Results

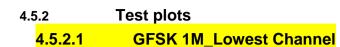
Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest		0.66	≥500	Pass
GFSK_1M	Middle	1.02	0.67	≥500	Pass
	Highest	1.02	0.66	≥500	Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	2.06	1.16	≥500	Pass
GFSK_2M	Middle	2.06	1.01	≥500	Pass
	Highest	2.06	1.17	≥500	Pass



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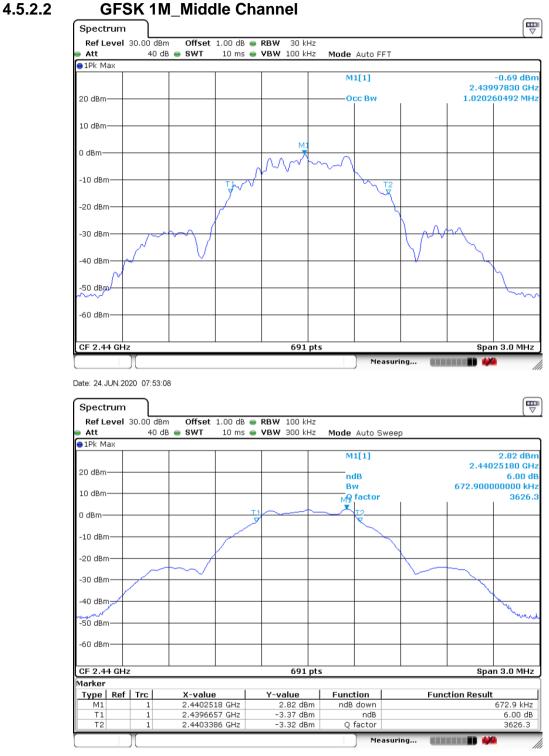
P Spectrum Ref Level 30.00 dBm Offset 1.00 dB 👄 RBW 100 kHz 10 ms 👄 **VBW** 300 kHz Att 40 dB 👄 SWT Mode Auto Sweep ●1Pk Ma× M1[1] 1.71 dBr 2.40225180 GH 20 dBm ndB 6.00 dE _____ O factor _____ 664.30000000 kHz 10 dBm 3616. 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm 450 dBm -60 dBm CF 2.402 GHz 691 pts Span 3.0 MHz Marker Type | Ref | Trc X-value Y-value Function Function Result 2.4022518 GHz 1.71 dBm 664.3 kHz M1 ndB down 1 Τ1 2.40167 GHz 4.10 dBm ndB 6.00 dB Т2 1 2.4023343 GHz -4.42 dBm O factor 3616.5 Measuring... •••••••••••

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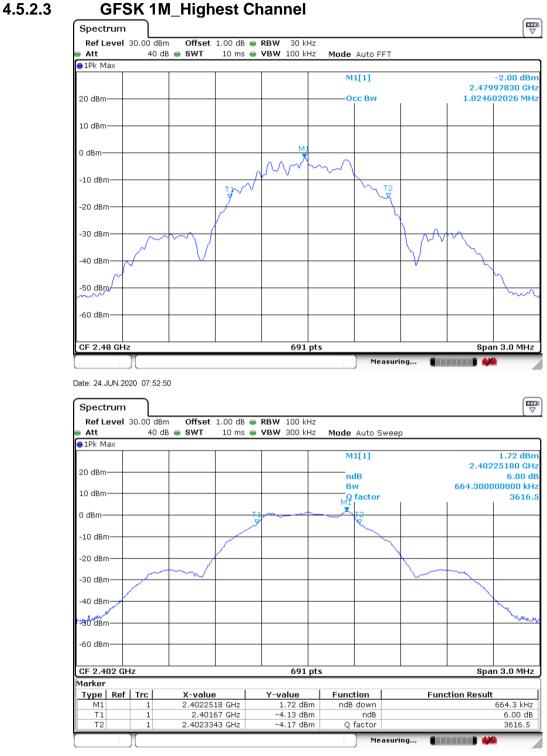


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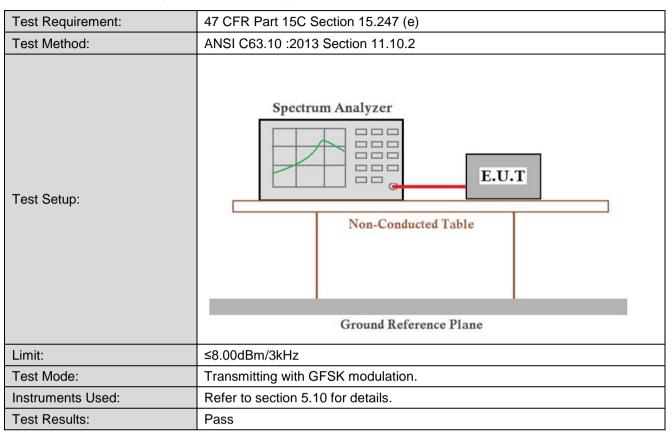
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4.6 Power Spectral Density



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-14.66	≤8.00	Pass
GFSK_1M	Middle	-13.54	≤8.00	Pass
	Highest	-14.82	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-16.81	≤8.00	Pass
GFSK 2M	Middle	-15.69	≤8.00	Pass
	Highest	-16.95	≤8.00	Pass



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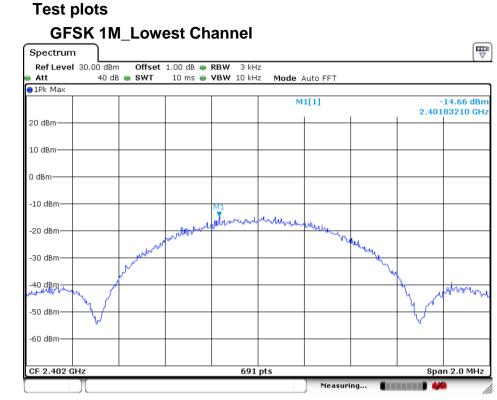
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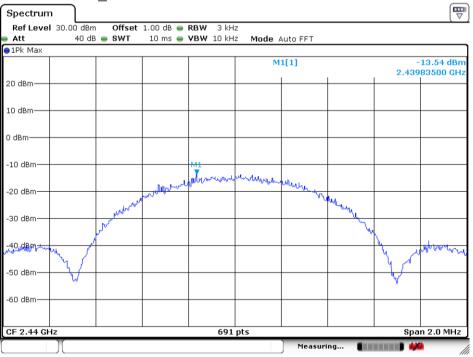
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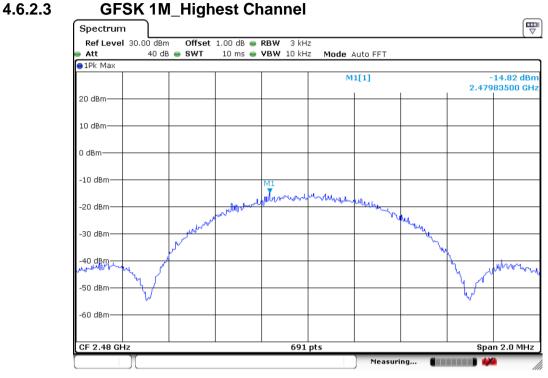


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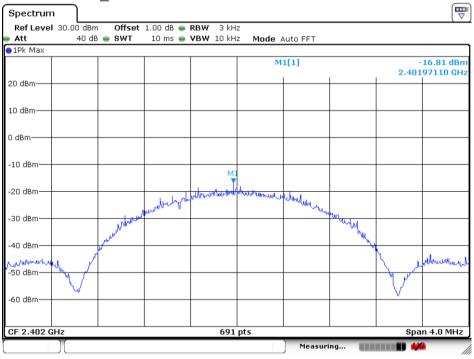
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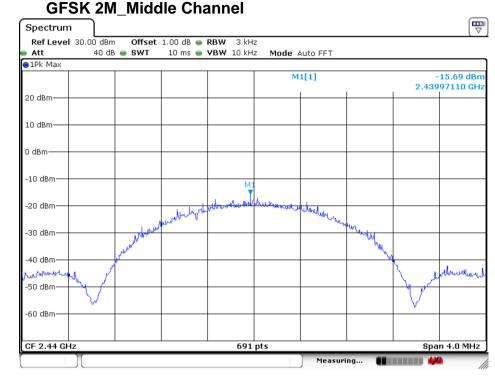


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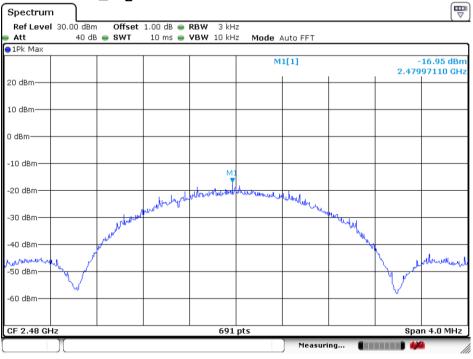


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4.6.2.5





Date: 24.JUN.2020 08:08:17



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4.7 Band-edge for RF Conducted Emissions

SG

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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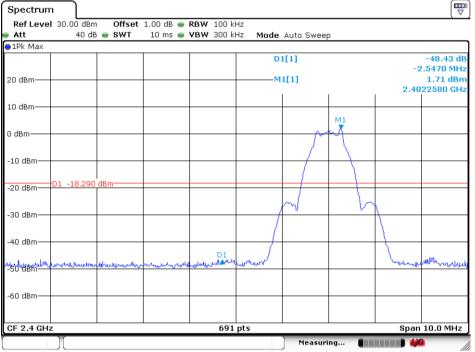


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GFSK 1M_Lowest Channel



Date: 24.JUN.2020 08:02:55



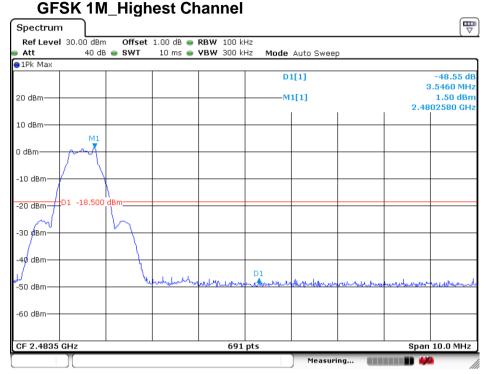
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4.7.1.2

SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen Branch

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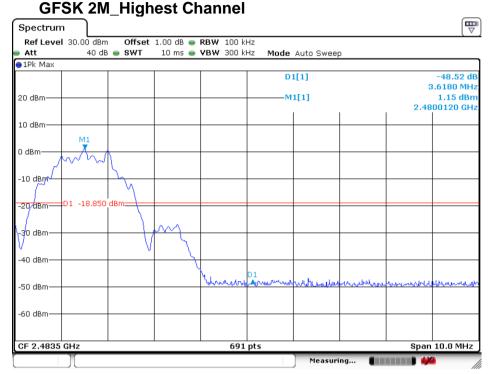
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4.7.1.4

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Date: 24.JUN.2020 08:05:23



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4.8 Spurious RF Conducted Emissions

SG

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	



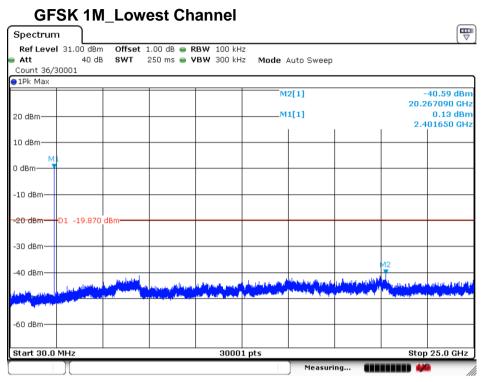
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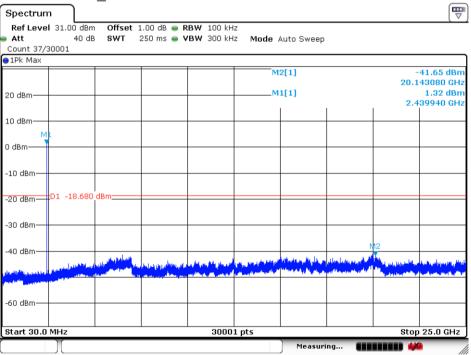






Date: 24.JUN.2020 08:13:58

4.8.1.2 GFSK 1M_Middle Channel



Date: 24.JUN.2020 08:14:44



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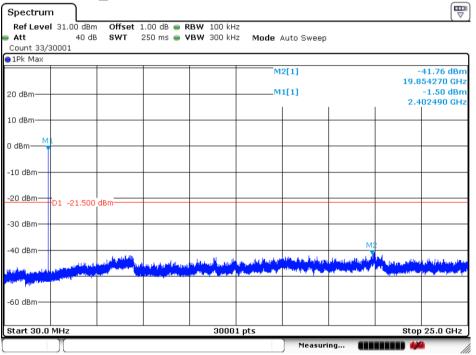
GFSK 1M_Highest Channel ₩ Spectrum Ref Level 31.00 dBm Offset 1.00 dB 👄 RBW 100 kHz Att 40 dB SWT 250 ms 👄 **VBW** 300 kHz Mode Auto Sweep Count 21/30001 ●1Pk Max M2[1] 41.81 dBr 6.858650 GH: -0.24 dBn M1[1] 20 dBm 2.479890 GH 10 dBm-0 dBm -10 dBm 20 dBm D1 -20.240 dBm -30 dBm -40 dBm and h -60 dBm Start 30.0 MHz 30001 pts Stop 25.0 GHz Measuring... -----

Date: 24.JUN.2020 08:15:14

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4.8.1.3

4.8.1.4 GFSK 2M_Lowest Channel

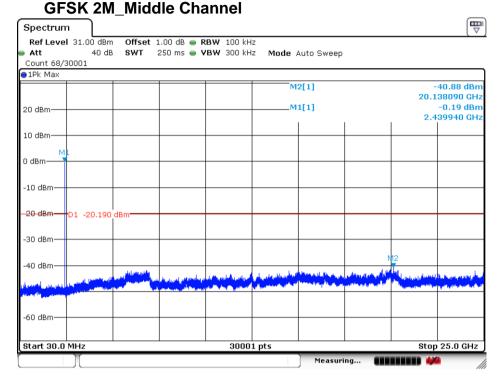


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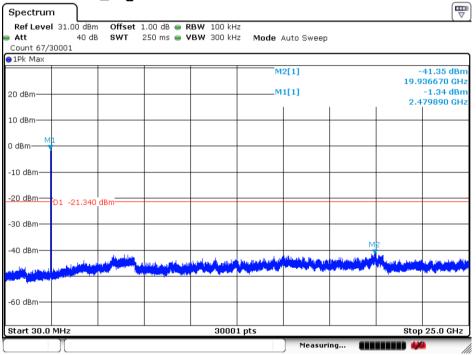
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Date: 24.JUN.2020 08:12:35

4.8.1.5

4.8.1.6 GFSK 2M_Highest Channel



Date: 24.JUN.2020 08:11:25



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Remark:

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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Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Sec	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance:	3m (Semi-Anecho	oic Chambe	r)					
	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				
Dessiver Cetury	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				
		Peak	1MHz	3MHz	Peak				
	Above 1GHz	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.								

4.9 Radiated Spurious Emission

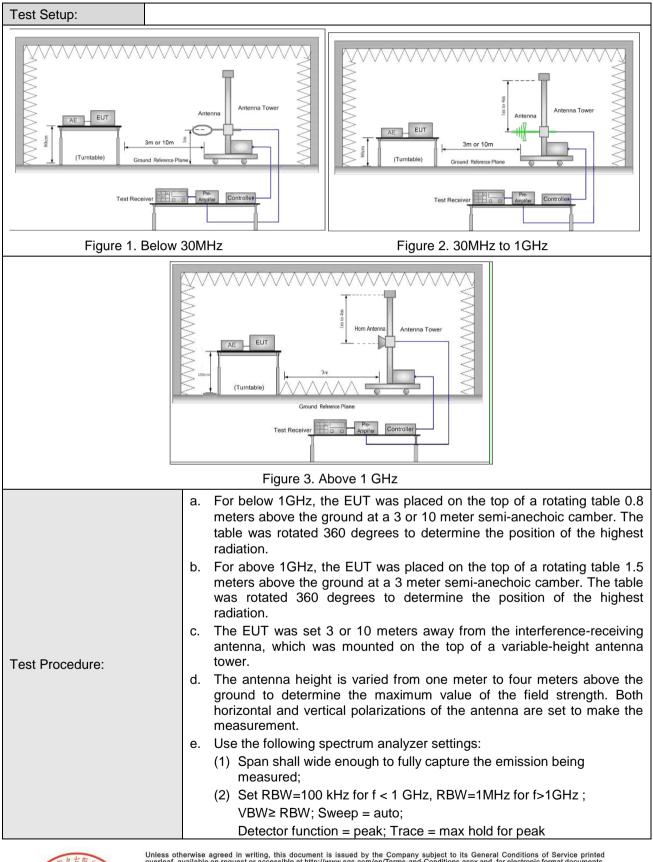
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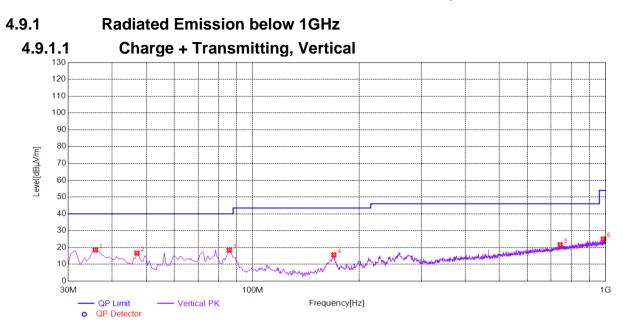
	(3) For average measurement: use duty cycle correction factor method per 15.35(c).			
	Duty cycle = On time/100 milliseconds On time = N 1 *L 1 +N 2 *L 2 ++N n-1 *LN n-1 +N n *L n			
	Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc.			
	Average Emission Level = Peak Emission 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.			
	 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. 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 5.10 for details.			
Test Results:	Pass			



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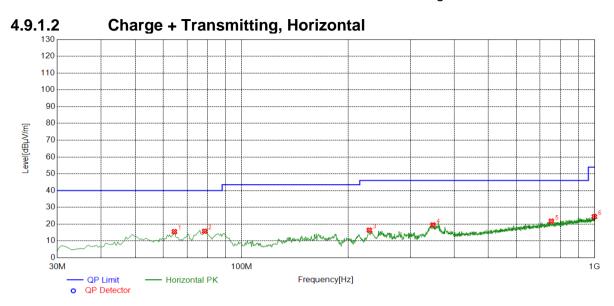
Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	35.8229	18.60	-32.50	40.00	21.40	150	173	Vertical	
2	46.9835	16.67	-30.20	40.00	23.33	150	344	Vertical	
3	85.8029	18.39	-34.44	40.00	21.61	150	77	Vertical	
4	169.749	15.67	-33.63	43.50	27.83	150	163	Vertical	
5	743.306	21.70	-17.61	46.00	24.30	150	262	Vertical	
6	985.442	25.09	-14.04	54.00	28.91	150	326	Vertical	



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Suspected List

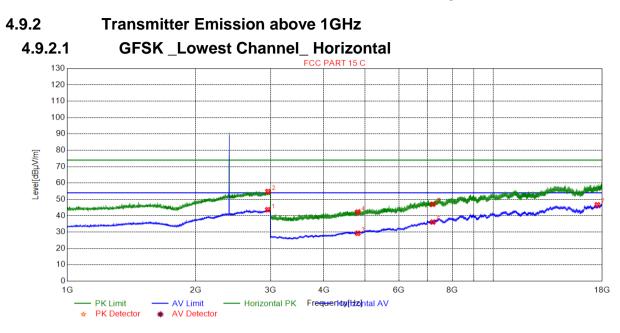
S

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	64.4522	15.52	-32.79	40.00	24.48	150	298	Horizontal	
2	78.5243	15.80	-35.63	40.00	24.20	150	311	Horizontal	
3	229.920	16.43	-29.96	46.00	29.57	150	215	Horizontal	
4	348.319	19.55	-26.42	46.00	26.45	150	247	Horizontal	
5	753.982	21.79	-17.39	46.00	24.21	150	359	Horizontal	
6	998.544	24.51	-13.89	54.00	29.49	150	117	Horizontal	



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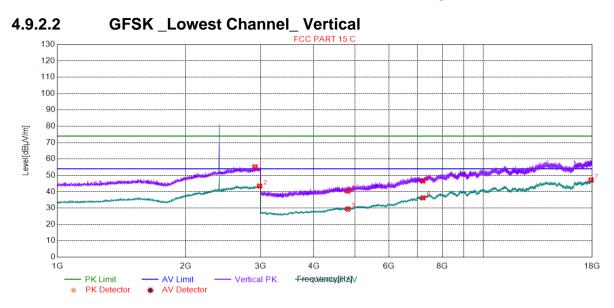
Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2954.48	43.66	9.66	54.00	10.34	150	129	Horizontal	
2	2956.48	54.82	9.65	74.00	19.18	150	226	Horizontal	
3	4804.00	29.29	-18.30	54.00	24.71	150	346	Horizontal	
4	4804.00	42.25	-18.30	74.00	31.75	150	263	Horizontal	
5	7206.00	47.02	-10.09	74.00	26.98	150	291	Horizontal	
6	7206.00	36.12	-10.09	54.00	17.88	150	342	Horizontal	
7	17528.6	46.72	1.03	54.00	7.28	150	291	Horizontal	



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> Report No.: ZR/2020/5004603 Page: 46 of 60



Suspected List

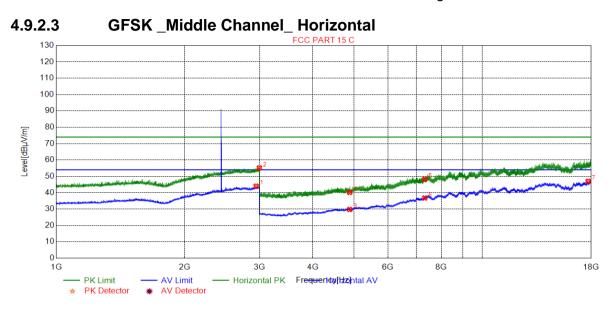
SG

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2908.97	55.15	9.24	74.00	18.85	150	314	Vertical	
2	2983.99	43.46	9.52	54.00	10.54	150	108	Vertical	
3	4804.00	29.43	-18.30	54.00	24.57	150	155	Vertical	
4	4804.00	40.44	-18.30	74.00	33.56	150	349	Vertical	
5	7206.00	46.56	-10.09	74.00	27.44	150	143	Vertical	
6	7206.00	36.27	-10.09	54.00	17.73	150	92	Vertical	
7	17882.8	47.21	0.46	54.00	6.79	150	342	Vertical	



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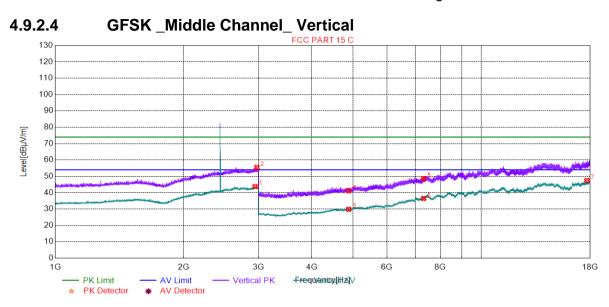
Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2944.98	44.03	9.63	54.00	9.97	150	346	Horizontal	
2	2996.49	55.17	9.47	74.00	18.83	150	292	Horizontal	
3	4880.00	29.76	-17.97	54.00	24.24	150	265	Horizontal	
4	4880.00	40.19	-17.97	74.00	33.81	150	155	Horizontal	
5	7320.00	48.18	-9.72	74.00	25.82	150	90	Horizontal	
6	7320.00	36.79	-9.72	54.00	17.21	150	90	Horizontal	
7	17701.3	46.99	1.33	54.00	7.01	150	342	Horizontal	



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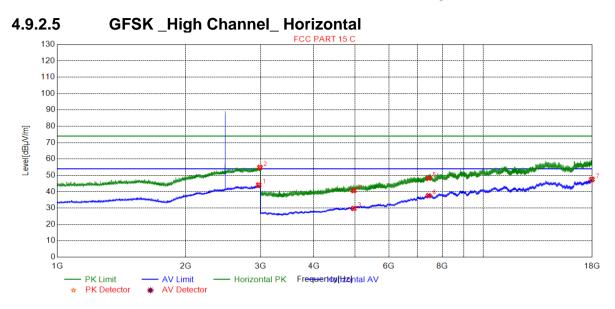
Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2942.48	43.76	9.60	54.00	10.24	150	180	Vertical	
2	2971.49	55.47	9.58	74.00	18.53	150	139	Vertical	
3	4880.00	29.88	-17.97	54.00	24.12	150	210	Vertical	
4	4880.00	41.17	-17.97	74.00	32.83	150	264	Vertical	
5	7320.00	48.57	-9.72	74.00	25.43	150	142	Vertical	
6	7320.00	36.54	-9.72	54.00	17.46	150	88	Vertical	
7	17688.6	47.43	1.35	54.00	6.57	150	242	Vertical	



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Suspected List

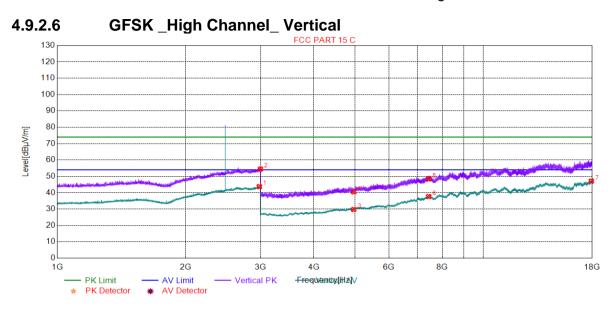
SG

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2969.99	44.10	9.59	54.00	9.90	150	223	Horizontal	
2	2988.49	54.85	9.50	74.00	19.15	150	18	Horizontal	
3	4960.00	29.77	-17.47	54.00	24.23	150	266	Horizontal	
4	4960.00	40.72	-17.47	74.00	33.28	150	73	Horizontal	
5	7440.00	48.36	-9.35	74.00	25.64	150	41	Horizontal	
6	7440.00	37.56	-9.35	54.00	16.44	150	41	Horizontal	
7	17965.8	47.50	0.71	54.00	6.50	150	0	Horizontal	



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Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2979.99	43.75	9.54	54.00	10.25	150	41	Vertical	
2	2997.99	54.49	9.46	74.00	19.51	150	41	Vertical	
3	4960.00	29.77	-17.47	54.00	24.23	150	128	Vertical	
4	4960.00	40.51	-17.47	74.00	33.49	150	46	Vertical	
5	7440.00	48.44	-9.35	74.00	25.56	150	242	Vertical	
6	7440.00	37.68	-9.35	54.00	16.32	150	342	Vertical	
7	17909.2	47.12	0.69	54.00	6.88	150	41	Vertical	

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.



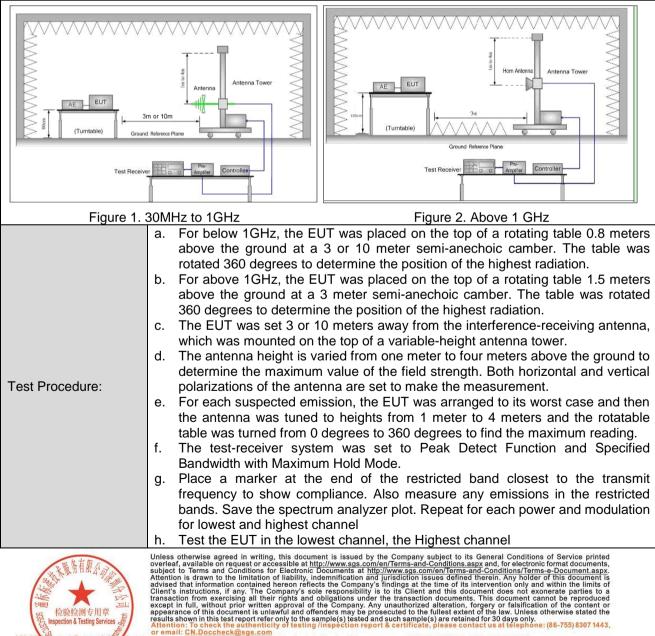
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4.10 Restricted bands around fundamental frequency

		-	-					
Test Requirement:	47 CFR Part 15C Sectio	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Sec	ANSI C63.10: 2013 Section 11.12						
Test Site:	Measurement Distance:	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					
	ADOVE IGHZ	74.0	Peak Value					

Test Setup:





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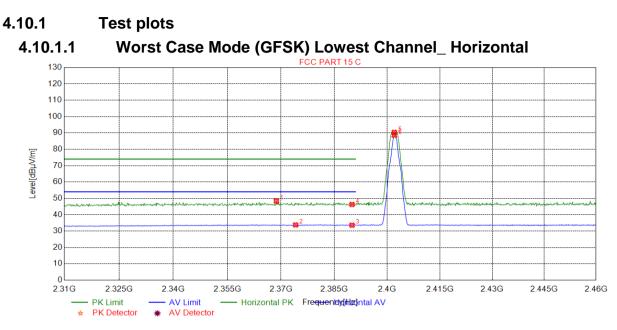
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting 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 5.10 for details.
Test Results:	Pass



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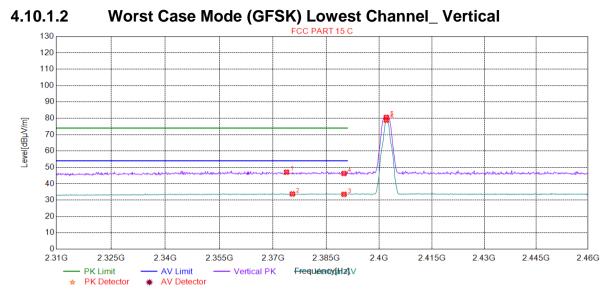
Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2368.70	48.36	7.79	74.00	25.64	150	173	Horizontal	
2	2374.11	33.77	7.79	54.00	20.23	150	352	Horizontal	
3	2390.00	33.61	7.77	54.00	20.39	150	53	Horizontal	
4	2390.00	46.29	7.77	74.00	27.71	150	14	Horizontal	
5	2402.00	90.38	7.77	0.00	-90.38	150	205	Horizontal	
6	2402.00	88.56	7.77	0.00	-88.56	150	210	Horizontal	



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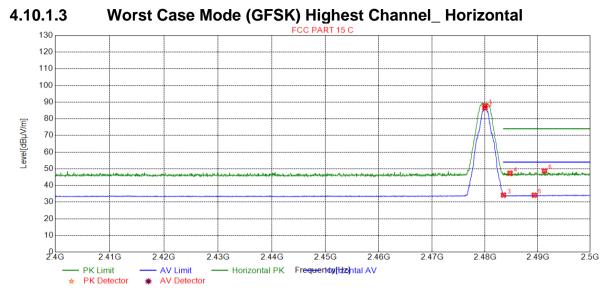
Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2373.81	47.08	7.79	74.00	26.92	150	323	Vertical		
2	2375.46	33.75	7.78	54.00	20.25	150	208	Vertical		
3	2390.00	33.53	7.77	54.00	20.47	150	262	Vertical		
4	2390.00	46.24	7.77	74.00	27.76	150	299	Vertical		
5	2402.00	80.61	7.77	0.00	-80.61	150	196	Vertical		
6	2402.00	78.82	7.77	0.00	-78.82	150	196	Vertical		



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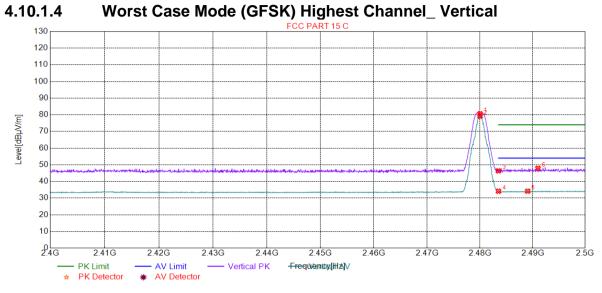
Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.00	87.83	8.01	0.00	-87.83	150	216	Horizontal	
2	2480.00	86.53	8.01	0.00	-86.53	150	216	Horizontal	
3	2483.50	34.24	8.01	54.00	19.76	150	211	Horizontal	
4	2484.74	47.40	8.01	74.00	26.60	150	294	Horizontal	
5	2489.34	34.17	8.02	54.00	19.83	150	305	Horizontal	
6	2491.29	48.76	8.02	74.00	25.24	150	260	Horizontal	



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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	80.60	8.01	0.00	-80.60	150	12	Vertical	
2	2480.00	79.25	8.01	0.00	-79.25	150	12	Vertical	
3	2483.50	46.37	8.01	74.00	27.63	150	29	Vertical	
4	2483.50	34.16	8.01	54.00	19.84	150	40	Vertical	
5	2489.04	34.19	8.02	54.00	19.81	150	51	Vertical	
6	2490.99	47.89	8.02	74.00	26.11	150	122	Vertical	

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

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	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spundus 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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6 Equipment List

Conducted 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	2019/7/14	2020/7/14				
LISN	ETS-LINDGREN	Feb-16	SEM007-02	20120/4/1	2021/3/31				
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11				
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									
			Inventory	Cal. date	Cal.Duedate				
Test Equipment	Manufacturer	Model No.	No.	(yyyy-mm- dd)	(yyyy-mm- dd)				
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15				
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	2019/7/14	2020/7/14				
Temperature Chamber	GIANT FORCE	ICT-150-40- CP-AR	W027-03	2019/10/27	2020/10/27				
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14				



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RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-	Cal.Due date (yyyy-mm-			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	dd) 2018/3/13	dd) 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	2017/6/27	2020/6/26			
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	2019/7/14	2020/7/14			
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2019/9/3	2020/9/2			
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								
Test Equipment	Manufacturer	Model No.	Inventory	Cal. date	Cal.Due date			
rest Equipment	Manulacturer	Woder No.	No.	(yyyy-mm- dd)	(yyyy-mm- dd)			
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4			
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	2019/7/14	2020/7/14			
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26			
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1			



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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	2017/8/22	2020/8/21				
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 ZR/2020/50046.

The End



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