

FCC TEST REPORT

Application No:	HR/2019/90003	
Applicant:	Unimax communications	
Address of Applicant	18201 McDurmott St.West Suite E,Irvine,CA 92614.	
Manufacturer:	Unimax communications	
Address of Manufacturer	18201 McDurmott St.West Suite E,Irvine,CA 92614.	
Factory:	Unimax communications	
Address of Factory	18201 McDurmott St.West Suite E,Irvine,CA 92614.	
EUT Description:	Smartphone	
Model No.:	U693CL	
Trade Mark:	UMX	
FCC ID:	P46-U693CL	
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:	2019/11/5	
Date of Test:	2019/11/6 to 2019/11/20	
Date of Issue:	2019/11/20	
Test Result:	PASS *	

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



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1 Version

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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
00		2019/11/20		Original		

Authorized for issue by:		
Tested By	Mike Mu	2019/11/20
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2019/11/20
	(David Chen) /Reviewer	Date



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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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3 General Information

3.1 Client Information

Applicant:	Unimax communications	
Address of Applicant:	18201 McDurmott St.West Suite E,Irvine,CA 92614.	
Manufacturer:	Jnimax communications	
Address of Manufacturer:	18201 McDurmott St.West Suite E,Irvine,CA 92614.	
Factory:	Unimax communications	
Address of Factory:	18201 McDurmott St.West Suite E,Irvine,CA 92614.	

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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EUT Description:	Smartphone	
Model No.:	U693CL	
Trade Mark:	UMX	
Hardware Version:	Q5009-V1.0	
Software Version:	U693CL_01.01.01.182518	
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.	
Bluetooth Version:	Bluetooth V4.1 LE	
Modulation Type:	GFSK	
Number of Channel:	40	
Sample Type:	⊠ Portable Device, □Module	
Antenna Type:	External, 🛛 Integrated	
Antenna Gain:	0.8dBi	
Power Supply:	AC/DC Adapter; Battery; PoE:; Other:	

3.4 General Description of EUT

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



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The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

3.5 Test Environment

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

3.6 Description of Support Units

The EUT has been tested independent unit.

4 Test results and Measurement Data

4.1 Antenna Requirement

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

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.8dBi.



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4.2 AC Power Line Conducted Emissions

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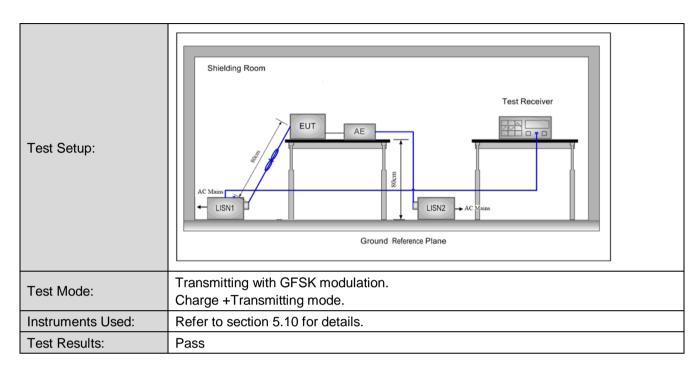
Test Requirement:	47 CFR Part 15C Section 1	5.207	
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
	Frequency range (MHz)	Limit (dBuV)	-
	Frequency range (IVITZ)	Quasi-peak	Average
Limit:	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarit	hm of the frequency.	
Test Procedure:	 2) The EUT was connected Stabilization Network) w power cables of all othe which was bonded to the for the unit being meas multiple power cables to exceeded. 3) The tabletop EUT was p reference plane. And for horizontal ground refere 4) The test was performed EUT shall be 0.4 m from reference plane was bor 1 was placed 0.8 m from ground reference plane This distance was betw other units of the EUT LISN 2. 5) In order to find the maxin 	with a vertical ground reference in the vertical ground reference inded to the horizontal ground im the boundary of the unit for LISNs mounted on top of reen the closest points of the and associated equipment we mum emission, the relative point nust be changed according to	the a LISN 1 (Line Impedance + 5Ω linear impedance. The inected 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 re plane. The vertical ground d reference plane. The LISN under test and bonded to a the ground reference plane. The SISN 1 and the EUT. All was at least 0.8 m from the positions of equipment and all



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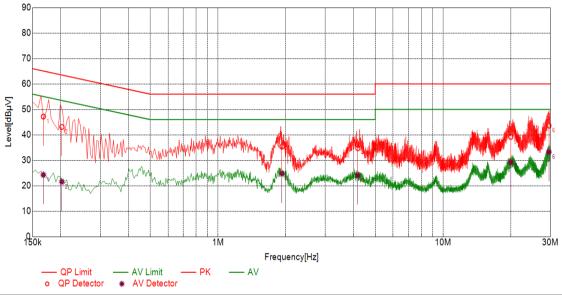
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Measurement Data

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:

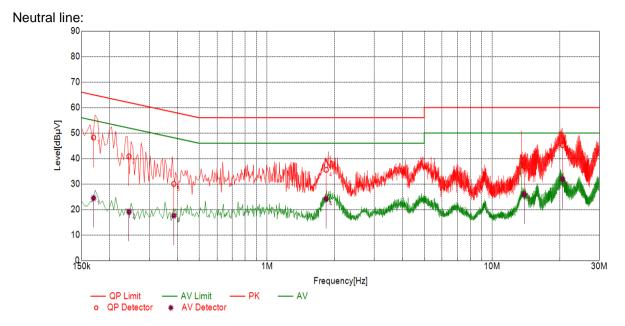


Final	Data List	t							
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1676	10.10	47.17	65.08	17.91	24.27	55.08	30.81	L
2	0.2025	10.10	43.09	63.51	20.42	21.58	53.51	31.93	L
3	1.9260	10.10	35.38	56.00	20.62	24.75	46.00	21.25	L
4	4.1837	10.10	34.74	56.00	21.26	24.09	46.00	21.91	L
5	19.9998	10.11	39.21	60.00	20.79	29.23	50.00	20.77	L
6	29.5285	10.11	43.62	60.00	16.38	33.30	50.00	16.70	L



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Test Graph

Final	Data List	t							
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1697	10.10	48.24	64.98	16.74	24.47	54.98	30.51	N
2	0.2439	10.10	40.83	61.96	21.13	19.12	51.96	32.84	N
3	0.3857	10.10	30.04	58.16	28.12	17.60	48.16	30.56	N
4	1.8336	10.10	35.57	56.00	20.43	24.22	46.00	21.78	N
5	13.8890	10.11	36.87	60.00	23.13	25.93	50.00	24.07	N
6	20.5412	10.11	45.26	60.00	14.74	31.92	50.00	18.08	Ν

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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Test N	lode			TX Free	I. [MHz]		Duty cycle [%
BLE	Ξ			Cł	-10		62.40
1.3.1		Tes	t Plots				
3.1.1	D	BLE					
	gilent Spectrur		- Swept SÅ				
0		RF	50 Ω AC	SENSE:INT	ALIGNAU Avg Type: Log-P	TO 04:40:59 AM Jan 01, 1988	Peak Search
Ľ	narker 5	-4500	PNO: Fast IFGain:Low	Trig: Free Run Atten: 40 dB	Avg Hold: 1/1	WY TRACE 123456 TYPE MWWWWWW DET PPPPF	
		Ref Offs	et 1 dB			Mkr3 1.450 ms	Next Peak
1	I0 dB/div -og	Ref 30	.00 dBm			0.636 dBm	
	20.0						Next Pk Right
	0.00		<u>^</u>	^2 (
	10.0						
	20.0						Next Pk Left
	-40.0						
	-40.0 -50.0		ulul _{i Mul} u	Կերդուսո	հայութ	่ _ผ มญายญ _า /	Marker Delta
	-60.0						
	Center 2.4				0	Span 0 Hz	
	Res BW 1.0		#VI	3W 1.0 MHz	UNCTION FUNCTION WI	p 3.000 ms (601 pts)	
	1 N 1 2 N 1	t	825.0 µs 1.215 ms	0.572 dBm 0.600 dBm			
•	3 N 1		1.450 ms	0.636 dBm			Mkr→RefLvl
	5 6						
	7 8						More
	9						1 of 2
	11					~	

4.3 Duty Cycle

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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

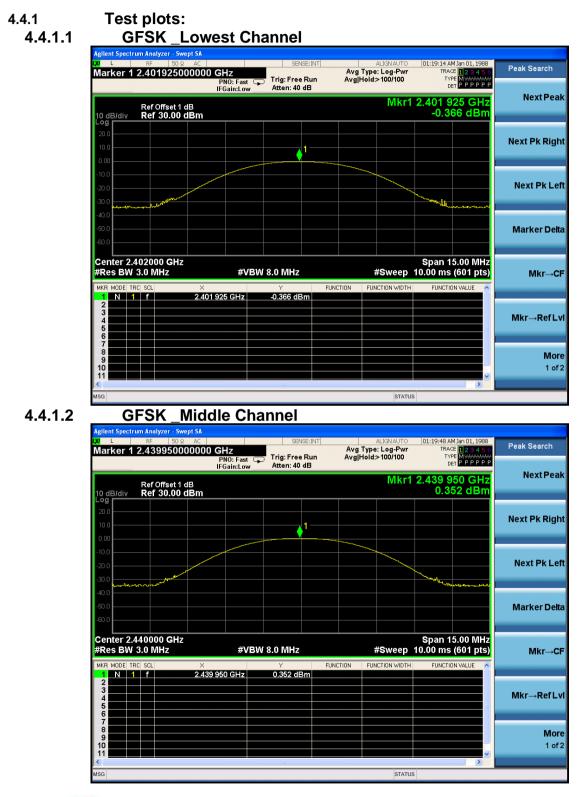
Measurement Data of Peak Power:

	GFSK mode		
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.37	30.00	Pass
Middle	0.35	30.00	Pass
Highest	-0.12	30.00	Pass



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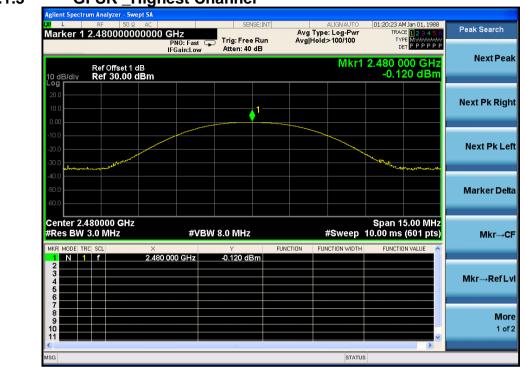


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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

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Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.07	1.09	≥500	Pass
GFSK	Middle	1.07	1.09	≥500	Pass
	Highest	1.08	1.09	≥500	Pass



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Test Requirement: 47 CFR Part 15C Section 15.247 (e) Test Method: ANSI C63.10 :2013 Section 11.10.2 Spectrum Analyzer E.U.T 6 Test Setup: Non-Conducted Table **Ground Reference Plane** Limit: ≤8.00dBm/3kHz Test Mode: Transmitting with GFSK modulation. Instruments Used: Refer to section 5.10 for details. **Test Results:** Pass

4.6 Power Spectral Density

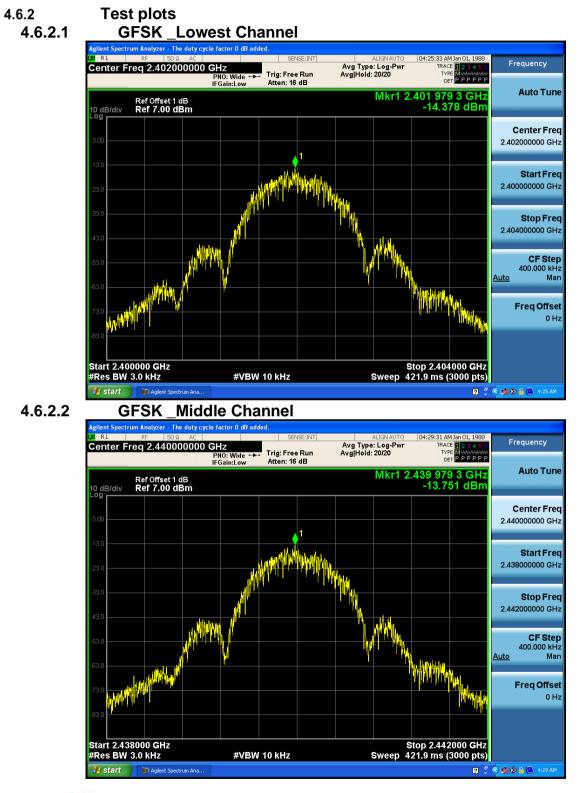
4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-14.38	≤8.00	Pass
GFSK	Middle	-13.75	≤8.00	Pass
	Highest	-14.16	≤8.00	Pass



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4.6.2.3 GFSK _Highest Channel



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4.7 Band-edge for RF Conducted Emissions

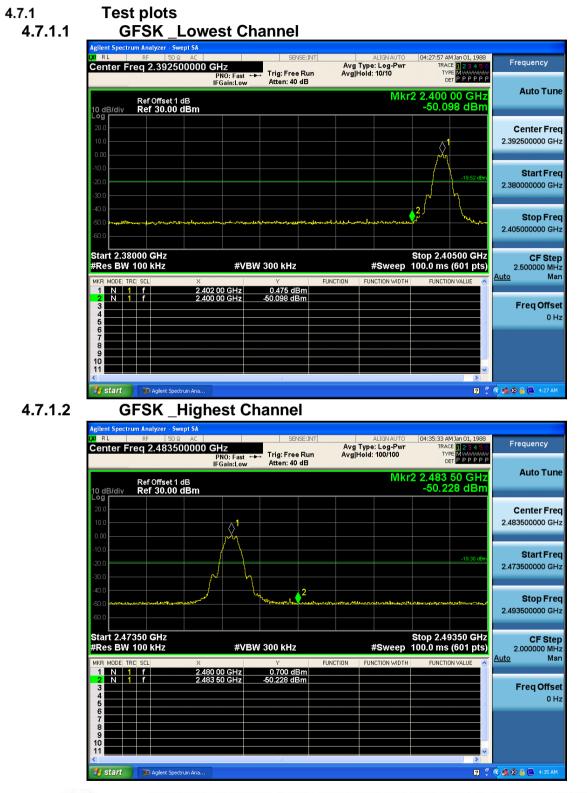
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Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
Limit:	In any 100 kHz bandwidth outside the frequency band in which the 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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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

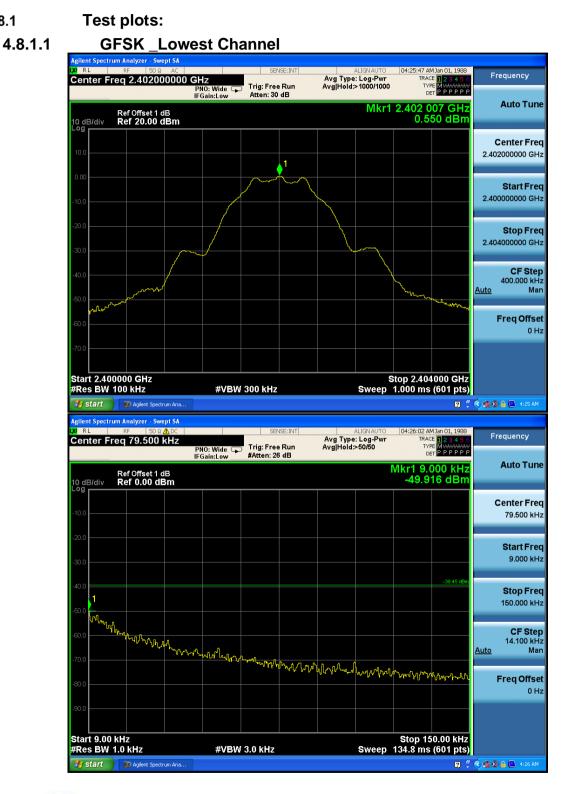
4.8 Spurious RF Conducted Emissions

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Res BW	10 kHz	SA AC 000 GH PN IFG	Z I0: Fast 🕞	SEM	e Run	Avg Type	ALIGNAUTO 2: Log-Pwr >50/50	85.4 ms (04:26:47 A TRAC TRAC 1 2.179 -46.1	(3001 pts) (3001 pts) (Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.300000000 G CF Str 227.000000 M Auto M Freq Offs

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RL	RF 50					Aug Type	e: Log-Pwr	TRAC		Frequency
enter F	req 2.350		PNO: Fast 🖵 IFGain:Low	Trig: Free #Atten: 40		Avg Hold:		TYP	E 123456 E M WWWWWW T P P P P P P	
	Ref Offset	1 dB					M	r1 2.305	5 2 GHz 55 dBm	Auto Tu
) dB/div	Ref 20.00	Jabm						-47.00		
0.0										Center Fr 2.350000000 G
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.00										Start Fr
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^{3.0} kilutratel	alway front and a straight and the state of	ومراجعه والمراجع	mannohalalad	hyperternet and	wotennetet	an Althing Ment	and the transfer	Multiple	edwornio-erecht	
0.0										Freq Offs
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tart 2 30	000 GHz							Stop 240	000 GHz	
	0000 GHz 100 kHz		#VBW	300 kHz			Sweep 9	Stop 2.40 .600 ms (
Res BW		ectrum Ana	#VBW	300 kHz			Sweep 9		1001 pts) <mark></mark>	🔨 🕵 🔞 🗎 🔲 4:26 A
Res BW start ilent Spect	100 KHz	Swept SA	#VBW		ICE-INIT			.600 ms (1001 pts) 🛯 🛱	¢ 🕵 🖗 🔒 🔍 4:26 4
Res BW start ilent Specto RL	100 KHz	Swept SA	GHz	SEN	ISE:INT	Avg Type	ALIGNAUTO	.600 ms (1001 pts)	Frequency
Res BW start ilent Specto RL	100 KHz Agilent Sp rum Analyzer - S RF 50	Swept SA 19 AC 750000 G		SEN	Run		ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE	1001 pts)	Frequency
Res BW start ilent Specto RL enter F	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency
Res BW start ilent Specto RL enter F	100 kHz P Aglent Sp rum Analyzer - 5 RF 50 req 2.491	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu
Res BW	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr
Res BW start ilent Spect RL enter F	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr
Res BW start ilent Spect RL enter F	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr
Res BW start ilent Spect RL enter F dB/div 9 00 00 00	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr
Res BW start ilent Spectr RL enter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G
Res BW start ilent Spect RL enter F 0 dB/div 9 0.0 0.0 0.0 0.0 0.0	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr
Res BW start ilent Spect RL enter F 0 dB/div 0 dB/div 0 dB/div 0 dB/div 0 dB/div 0 dB/div 0 dB/div	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	
Res BW start ilent Specti RL	100 kHz Aglent Sp rum Analyzer - 1 RF 50 req 2.491 Ref Offset	Swept SA IΩ AC 750000 C	Hz PNO: Fast 🖵	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
Res BW start ilent Spect RL enter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz Aglent Sp req 2.491 Ref Offset Ref 20.00	wept SA	SHz PNO: Fast	SEN	Run	Avg Type Avg Hold:	ALIGNAUTO 2: Log.Pwr >200/200 Mkr1 2	.600 ms (* 04:27:08 AM TRAC TRAC TRP DE .492 190 -48.12	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G
Res BW start ilent Spect RL enter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz Aglent Sp req 2.491 Ref Offset Ref 20.00	wept SA	SHz PNO: Fast	SEN	Run	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	.600 ms (04:27:08 AM TRAC TYP DE .492 190	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.550000 M Auto N
Res BW	100 kHz Aglent Sp req 2.491 Ref Offset Ref 20.00	wept SA	SHz PNO: Fast	SEN	Run	Avg Type Avg Hold:	ALIGNAUTO 2: Log.Pwr >200/200 Mkr1 2	.600 ms (* 04:27:08 AM TRAC TRAC TRAC 492 190 -48.12	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G 1.650000 M Auto
Res BW start ilent Spect RL alberter F alberter F alberter A alberter A	100 kHz Aglent Sp req 2.491 Ref Offset Ref 20.00	wept SA	SHz PNO: Fast	SEN	Run	Avg Type Avg Hold:	ALIGNAUTO 2: Log.Pwr >200/200 Mkr1 2	.600 ms (* 04:27:08 AM TRAC TRAC TRAC 492 190 -48.12	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G 1.650000 M Auto
Res BW	100 kHz Aglent Sp req 2.491 Ref Offset Ref 20.00	wept SA	SHz PNO: Fast	SEN	Run	Avg Type Avg Hold:	ALIGNAUTO 2: Log.Pwr >200/200 Mkr1 2	.600 ms (* 04:27:08 AM TRAC TRAC TRAC 492 190 -48.12	1001 pts)	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.50000000 G
Res BW	100 kHz Aglent Sp req 2.491 Ref Offset Ref 20.00	wept SA	SHz PNO: Fast	SEN	Run	Avg Type Avg Hold:	ALIGNAUTO 2: LogPwr >200/200 Mkr1 2 	.600 ms (* 04:27:08 AM TRAC TRAC TRAC 492 190 -48.12	1001 pts) 12 01, 1983 12 3 4 5 6 13 4 5 6 14 5 0 19 P P P P P 0 GHz -19 45 dbm -19 45 dbm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G 1.650000 M Auto

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4.8.1.2

GFSK _Middle Channel





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	ռ⊧ 50 Ջ <u>A</u> DC req 79.500 kHz		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50	04:30:00 AMJan 01, 1988 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P	Frequency
dB/div	Ref Offset 1 dB Ref 0.00 dBm	IFGain:Low	#Atten: 26 dB		Mkr1 9.705 kHz -49.997 dBm	Auto Tu
g						Center Fr
						79.500
						Start Fr 9.000 F
.0					-38.84 dBm	9.000 1
.0						Stop Fi 150.000 F
Jun .	ma al					CF SI
	" " " " " "	Mmmbly all grow	A			14.100 k Auto N
.0				Murrantypolitica	ᢇᠬᡃᡨᢉᡃᠧᡔᡅ᠋ᢊᢩᢉ᠋ᡀ _{ᡐᡆᡙ} ᠬ᠇	Freq Off
.0						0
art 9.00) kHz				Stop 150.00 kHz	
tes BW start	1.0 kHz	_	3.0 kHz	Sweep	134.8 ms (601 pts)	 4:29
start lent Spectr R L	I Aglent Spectrum An rum Analyzer - Swept S/ RF 50 Ω ▲ DC	13 N	3.0 kHz	ALIGN AUTO	04:30:22 AM Jan 01, 1988	
start lent Spectr R L	Agilent Spectrum An rum Analyzer - Swept SA	13 N			04:30:22 AM Jan 01, 1988 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P	Frequency
start ent Spectr RL enter F	I Aglent Spectrum An rum Analyzer - Swept S/ RF 50 Ω ▲ DC	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM Jan 01, 1988 TRACE 12 3 4 5 6 TYPE (MANAWAY	Frequency
start Ient Spectr RL enter F	RF S02 Creq 15.075000	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM Jan 01, 1988 TRACE [] 23:4 5 6 TYPE M MANANAN DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fi
dB/div	RF S02 Creq 15.075000	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM Jan 01, 1988 TRACE [] 23:4 5 6 TYPE M MANANAN DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fi
dB/div	RF S02 Creq 15.075000	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM Jan 01, 1988 TRACE [] 23:4 5 6 TYPE M MANANAN DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center F 15.075000 M Start Fi
dB/div	RF S02 Creq 15.075000	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM Jan 01, 1988 TRACE [] 23:4 5 6 TYPE M MANANAN DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fi 15.075000 N Start Fi 150.000 I
dB/div	RF S02 Creq 15.075000	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM Jan 01, 1988 TRACE [] 23:4 5 6 TYPE M MANANAN DET P P P P P Mkr1 150 kHz	Frequency Auto Tu Center Fi 15.075000 N Start Fi 150.000 Fi
dB/div	RF S02 Creq 15.075000	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM 3an 01, 1983 TRACE 12:34 5 6 TYPE MWWWW DET P P P P P P Mkr1 150 kHz -38.366 dBm	Frequency Auto Tu Center Fi 15.075000 N Start Fi 150.000 N Stop Fi 30.00000 N
/ start lent Spectr RL Priter F	RF S02 Creq 15.075000	MHz PNO: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	OH:30:22 AM Jan 01, 1988 TRACE 11 28 4 5 6 TYPE MANNAN ET P P P P P Mkr1 150 kHz -38.366 dBm	Frequency Auto Tu Center FI 15.075000 M Start FI 150.000 M Stop FI 30.000000 M
dB/div	Image: Spectrum An RF So & Do req 15.075000 Ref Offset1 dB Ref 20.00 dBm	MHz PN0: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	04:30:22 AM 3an 01, 1983 TRACE 12:34 5 6 TYPE MANAGE DET P P P P P P Mkr11 150 kHz -38.366 dBm	Frequency Auto Tu Center Fri 15.075000 M Start Fri 150.000 M Stop Fri 30.000000 M 2.985000 M Auto M
dB/div	Image: Spectrum An RF So & Do req 15.075000 Ref Offset1 dB Ref 20.00 dBm	MHz PN0: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr	04:30:22 AM 3an 01, 1983 TRACE 12:34 5 6 TYPE MANAGE DET P P P P P P Mkr11 150 kHz -38.366 dBm	Frequency Auto Tu Center Fri 15.075000 M Start Fri 150.000 M Stop Fri 30.000000 M 2.985000 M Auto M
dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div	Aplent Spectrum An rum Analyzer - Swept S/ RF SO 2 0 00 req 15.075000 Ref Offset1 dB Ref 20.00 dBm 1011 101 101 101 101 101 1011 101 101 101 1011 101 101 101 1011 101 101 101 1011 101 101 1011 101 101 1011 101 101 1011 101 101 1011	MHz PN0: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	04:30:22 AM 3an 01, 1983 TRACE 12:34 5 6 TYPE MANAGE DET P P P P P P Mkr11 150 kHz -38.366 dBm	Auto Tu Center Fi 15.075000 M Start Fi 150.000 M Stop Fi 30.00000 M CF St 2.985000 M

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enter F	req 1.1650			SEN Trig: Free			ALIGNAUTO : Log-Pwr :>50/50	TRAC	M Jan 01, 1988 E 1 2 3 4 5 6 E M W W W W	Frequency
		IF	PNO: Fast 📮 FGain:Low	#Atten: 40		Arginola		DE	T PPPPP	A
	Ref Offset 1						Mkr		91 GHz 65 dBm	Auto Tu
) dB/div ^{og}	Ref 20.00	dBm						-40.0	oo ubiii	
										Center Fr
0.0										1.165000000 G
.00										
										Start Fr
0.0										30.000000 M
0.0									-18.84 dBm	
										Stop Fr 2.300000000 G
0.0										
D.O										CF St
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0.0 <mark>yteppinte</mark>					المعالية عرابية من مراجعي من معرفية				data darah ta adhar Panagan majaran	
0.0										Freq Offs
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0.0										
tart 30 M									.300 GHz	
Res BW	100 kHz									
			#VDVV	300 kHz			Sweep 2	17.1 ms (8001 pts)	
y start	🗊 Aglient Spec	1	#VDVV	300 KH2			Sweep 2	17.1 ms (🔆 🍂 🕲 🔒 🛄 4:30 A
	Agilent Spec	vept SA	#VBW		ISE:INT				Q ²	
<mark>ilent Spect</mark> R L	Agilent Spec	vept SA 2 AC 0000 GI	Hz	SEN	ISE:INT		ALIGNAUTO	04:30:56 AI	1 1 2 4 5 6	Frequency
<mark>ilent Spect</mark> R L	RF 50 G	/ept SA 2 AC 00000 Gi		SEN	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 Al TRAC TYI DI	M.Jan 01, 1988 E 1 2 3 4 5 6 E MWWWWW T P P P P P P	Frequency
, ilent Spect RL enter F	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	MJan 01, 1988 E 1 2 3 4 5 6 MWWWW TPPPPPPP 2 6 GHz	
ilent Spect RL enter F	Inglent Spec rum Analyzer - Sw RF 50 Ω Freq 2.35000	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	M.Jan 01, 1988 E 1 2 3 4 5 6 E MWWWWW T P P P P P P	Frequency Auto Tu
ilent Spect RL enter F	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	MJan 01, 1988 E 1 2 3 4 5 6 MWWWW TPPPPPPP 2 6 GHz	Frequency Auto Tu Center Fr
ilent Spect RL enter F 0 dB/div	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	MJan 01, 1988 E 1 2 3 4 5 6 MWWWW TPPPPPPP 2 6 GHz	Frequency Auto Tu Center Fr
ilent Spect RL enter F	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	MJan 01, 1988 E 1 2 3 4 5 6 MWWWW TPPPPPPP 2 6 GHz	Frequency Auto Tu Center Fr 2.350000000 G
enter F enter F 0 dB/div 0 0 0 0 0 0 0 0	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	MJan 01, 1988 E 1 2 3 4 5 6 MWWWW TPPPPPPP 2 6 GHz	Frequency Auto Tu Center Fr 2.35000000 G Start Fr
enter F enter F 0 dB/div 0 0 0 0 0 0 0 0	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	4 An D1, 1983 16 1] 2 3 4 5 6 17 PPP PP 2 6 GHz 92 dBm	Frequency Auto Tu Center Fr 2.35000000 G Start Fr
o dB/div	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	MJan 01, 1988 E 1 2 3 4 5 6 MWWWW TPPPPPP 2 6 GHz	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G
) dB/div 9 dB/div 9 0.0 0.0 0.0	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	4 An D1, 1983 16 1] 2 3 4 5 6 17 PPP PP 2 6 GHz 92 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.30000000 G Stop Fr
) dB/div 9 dB/div 9 0.0 0.0 0.0	rum Analyzer - Sw RF 50 9 Freq 2.35000 Ref Offset 1	rept SA 2 AC 00000 G F IF	Hz PN0: Fast 🔾) Trig: Free	Run	Avg Type	ALIGN AUTO : Log-Pwr >200/200	04:30:56 AI TRAC TY DI C (T1 2.31)	4 An D1, 1983 16 1] 2 3 4 5 6 17 PPP PP 2 6 GHz 92 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.30000000 G Stop Fr
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		Q AC	NI I	SEN	SEINT		ALIGNAUTO : Log-Pwr	04:31:05 AM	1 Jan 01, 1988	Frequency
enter F	req 2.491		PNO: Fast 😱 FGain:Low	Trig: Free #Atten: 40		Avg Hold:		TYP	E 123456 E M WWWWWW T P P P P P P	
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4.8.1.3 GFSK _Highest Channel

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ilent Spect	rum Analyzer - Swe			OF	IOF IN IT			04-00-51-4	M 3 01 1000	
	RF 50 Ω req 15.0750	000 MHz			NSE:INT	Avg Type	ALIGNAUTO	104:33:51 A TRA	M Jan 01, 1988 CE	Frequency
	·	1	PNO: Fast 😱 Gain:Low	Trig: Fre #Atten: 4		Avg Hold:	>50/50	D	ET P P P P P P	
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tart 150 Res BW			#VBW	30 kHz			Sweep 2		(3001 pts)	
		rum Ana	#VBW	30 kHz			Sweep 2		(3001 pts)	🔇 🍂 🔞 🔒 🛄 4:33 A
Res BW y start	10 kHz		#VBW	30 kHz			Sweep 2		(3001 pts)	🤹 🕵 🕲 🔒 🛄 4:33 A
Res BW start silent Spect	10 kHz Aglent Spectr rum Analyzer - Swe RF 50 Q	ept SA AC			NSE:INT		ALIGN AUTO	85.4 ms ((3001 pts)	
Res BW start ilent Spect	10 kHz D Agilent Spectr	ept SA AC)0000 G	Hz	SE Trig: Free	e Run		ALIGN AUTO	85.4 ms ((3001 pts)	र्रे हे 🔒 🔒 4:33 A Frequency
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Res BW	10 kHz	ept SA AC D00000 G IB IB IB IB IB	Hz NO: Fast C Gain:Low	Ser #Atten: 4		Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >50/50 MKr ////////////////////////////////////	85.4 ms (04:34:13 A TRA 1 2.174 -46.1	(3001 pts) MJan 01, 1983 CE 12 3 4 5 6 EM MARKANA ET P P P P P P 58 GHZ 86 dBm -19.13 dBm	Frequency Auto Tu Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.300000000 G CF Sto 227.00000 M Auto Auto Auto Stop Fr 30.0000000 G CF Sto 27.00000000 M Auto Auto Freq Offs

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gilent Spect	<mark>rum Analyzer - Swo</mark> RF 50 Ω			0774	IOT IN IT			04-04-05-44	11	
Center F	req 2.35000	00000 GH	Z NO: Fast 😱		NSE:INT		ALIGNAUTO : Log-Pwr >200/200	TRAC	M Jan 01, 1988 26 1 2 3 4 5 6 26 M WWWWW 57 P P P P P P	Frequency
		IFO	Gain:Low	#Atten: 40						Auto Tune
I0 dB/div	Ref Offset 1 o Ref 20.00 o						IVIP	-47.2	7 0 GHz 73 dBm	
- ^{og}										Center Free
10.0										2.350000000 GH
0.00										
0.00										Start Free
10.0										2.300000000 GH
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40.0				▲ 1						CF Stej 10.000000 MH
50.0 Matala ti	enter and the second states of the second	an alalan an	ana	wayed with hall	et. Noviete market	and to be a state	MahamharNana	parameter with	Hymbolic	<u>Auto</u> Ma
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Start 2 30	000 GHz							Ston 24(1000 GHz	
	0000 GHz 100 kHz		#VBW	300 kHz			Sweep 9	Stop 2.40 .600 ms (0000 GHz 1001 pts)	
		rum Ana	#VBW	300 kHz			Sweep 9	Stop 2.40 .600 ms (1001 pts)	🤹 🍂 🕲 🔒 🛄 4:34 AM
#Res BW # start	100 KHz Agilent Spectr rum Analyzer - Swe	≥pt SA	#VBW					.600 ms (1001 pts) 🛛 🕄	
FRes BW	100 kHz	apt SA AC 50000 GH	z) Trig: Free	NSE:INT	Avg Type		.600 ms (04:34:34 AM TRAC	1001 pts)	📢 🕵 ଛି 🛄 4:34 AM Frequency
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#Res BW gilent Spect gilent Spect 0 dB/div 0 div 0 div 0 div 0 div 0 div	2 100 kHz ■ Aglent Spect rum Analyzer Swer RF 50 2 Freq 2.49175 Ref Offset1 c Ref 20.00 c	ept SA AC 50000 GH IFC IEC IB IB IB IB IB	Z Fast Sain:Low	J Trig: Free #Atten: 40	ise:INT e Run d B	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >200/200	1.600 ms (1001 pts)	Frequency Auto Tun Center Fre 2.491750000 GH Start Fre 2.4835500000 GH Stop Fre 2.500000000 GH 1.650000 MH Auto Mato Freq Offsee
#Res BW gitent Spect 0 dB/div 0 db/div	2 100 kHz ■ Aglent Spect rum Analyzer Swer RF 50 2 Freq 2.49175 Ref Offset1 c Ref 20.00 c	ept SA AC 50000 GH IFC IEC IB IB IB IB IB	Z Fast Sain:Low	J Trig: Free #Atten: 40	vse:INT P Run D dB	Avg Type Avg Hold	ALIONAUTO 2: Log-Pwr >200/200 Mkr1 2 	1.600 ms (1001 pts) 1001 pts) 100 2 1001 pts) 1001	Frequency Auto Tun Center Free 2.491750000 GH Start Free 2.483500000 GH Stop Free 2.500000000 GH

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	rum Analyzer - Swept S/					
Center F	RF 50 Ω AC Freq 14.500000	000 GHz PNO: Fast 😱	SENSE:INT Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:35:08 AM Jan 01, 1988 TRACE 123456 TYPE M	Frequency
10 dB/div	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	М	kr1 26.473 GHz -38.142 dBm	Auto Tune
10.0						Center Freq 14.50000000 GHz
-10.0						Start Freq 2.500000000 GHz
-20.0 ====					-19.13 dBm	Stop Freq 26.50000000 GHz
-40.0	s. I. Nestelåistestidet.	u en ministra	handaj bila si na di bila bila ada			CF Step 2.400000000 GHz <u>Auto</u> Man
-60.0						Freq Offset 0 Hz
-70.0						
Start 2.50 #Res BW	0 GHz 100 kHz	#VBW	300 kHz	Sweep	Stop 26.50 GHz 2.294 s (8001 pts)	
🦺 start	Agilent Spectrum Ar	na			B 🗘	🔇 🕵 🔞 🔒 💽 4:35 AM 👘

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 Sectio	n 15.209 and 15.2	205				
Test Method:	ANSI C63.10 :2013 Sec	tion 11.12					
Test Site:	Measurement Distance:	3m or 10m (Semi	-Anechoic C	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		
Receiver Setup:	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak		
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average		
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	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

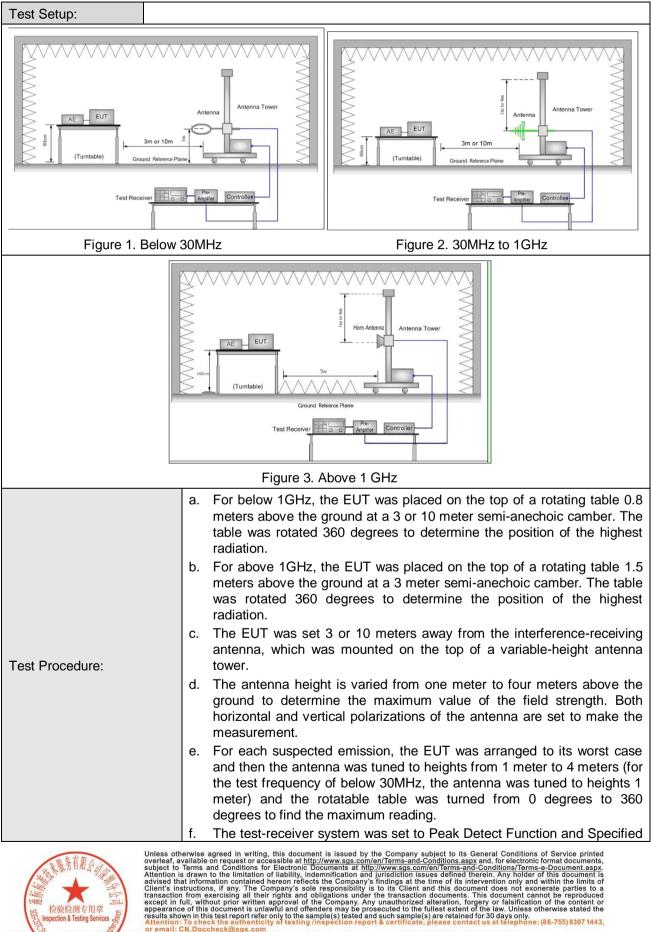
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邮编: 518057

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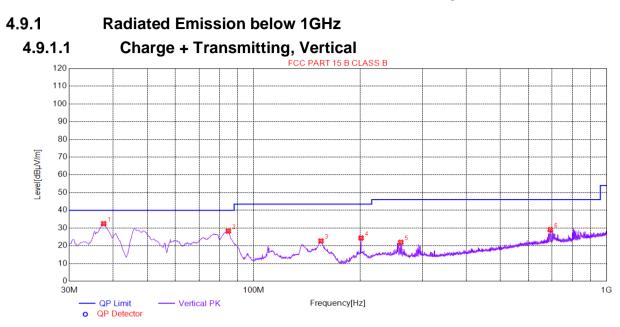
	Bandwidth with Maximum Hold Mode.				
	 g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel (2402MHz),the middle channel (2400HHz),the Highest channel (2480MHz) 				
	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,				
	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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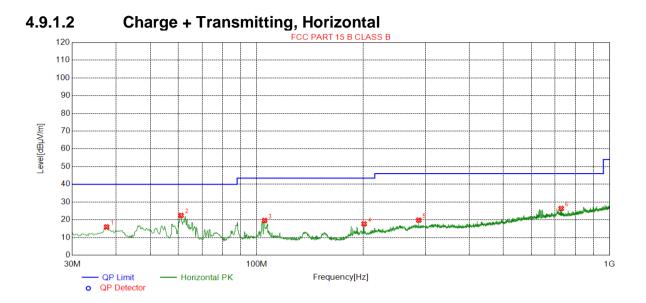


Suspe	Suspected List								
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Deleritu	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	37.5675	32.46	-29.13	40.00	7.54	100	352	Vertical	
2	84.7189	28.23	-35.01	40.00	11.77	100	235	Vertical	
3	155.1550	22.69	-34.85	43.50	20.81	100	84	Vertical	
4	201.5303	24.38	-31.15	43.50	19.12	100	349	Vertical	
5	261.1002	21.91	-29.35	46.00	24.09	100	87	Vertical	
6	692.4485	29.06	-19.59	46.00	16.94	100	31	Vertical	



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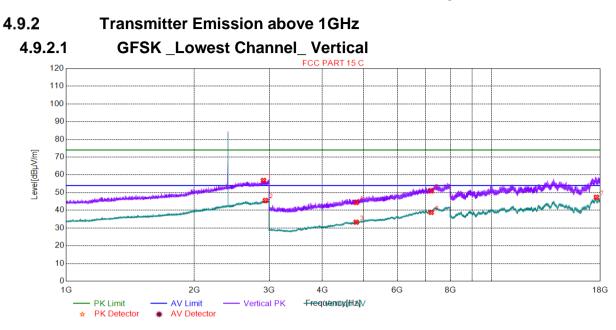


Suspe	Suspected List								
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delority	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	37.5675	15.94	-29.13	40.00	24.06	100	266	Horizontal	
2	61.0462	22.43	-32.13	40.00	17.57	100	9	Horizontal	
3	105.2871	19.59	-32.00	43.50	23.91	100	15	Horizontal	
4	201.5303	17.65	-31.15	43.50	25.85	100	266	Horizontal	
5	287.8776	19.78	-28.72	46.00	26.22	100	275	Horizontal	
6	728.9278	26.32	-18.83	46.00	19.68	100	82	Horizontal	



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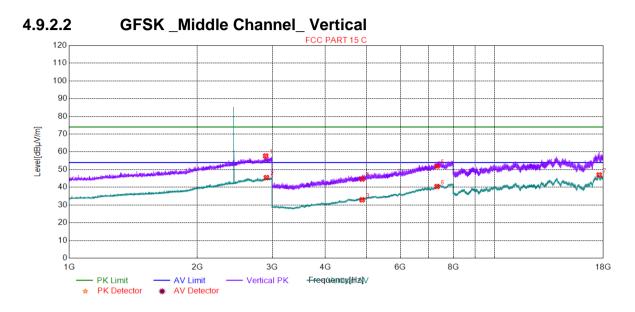
Susp	Suspected List									
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delerity		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	2908.4771	56.81	11.41	74.00	17.19	150	206	Vertical		
2	2940.4851	45.53	11.39	54.00	8.47	150	342	Vertical		
3	4804.0000	33.29	-14.99	54.00	20.71	150	262	Vertical		
4	4804.0000	44.40	-14.99	74.00	29.60	150	99	Vertical		
5	7206.0000	50.98	-7.05	74.00	23.02	150	45	Vertical		
6	7206.0000	38.82	-7.05	54.00	15.18	150	208	Vertical		
7	17620.9810	47.31	1.08	54.00	6.69	150	242	Vertical		



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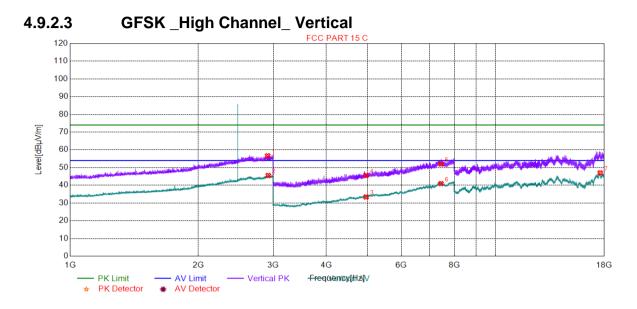


Susp	Suspected List								
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delerity	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	2895.9740	57.65	11.38	74.00	16.35	150	179	Vertical	
2	2907.4769	45.45	11.41	54.00	8.55	150	342	Vertical	
3	4880.0000	32.94	-14.65	54.00	21.06	150	208	Vertical	
4	4880.0000	44.63	-14.65	74.00	29.37	150	262	Vertical	
5	7320.0000	51.96	-6.17	74.00	22.04	150	208	Vertical	
6	7320.0000	40.45	-6.17	54.00	13.55	150	181	Vertical	
7	17601.9801	46.97	1.58	54.00	7.03	150	93	Vertical	



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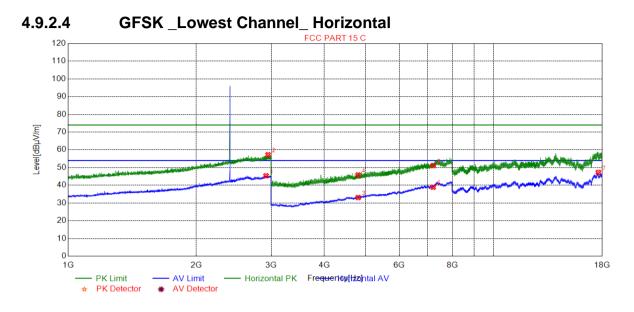


Susp	Suspected List									
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Deleritri		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	2909.9775	56.63	11.41	74.00	17.37	150	70	Vertical		
2	2920.4801	45.51	11.40	54.00	8.49	150	316	Vertical		
3	4960.0000	33.41	-14.23	54.00	20.59	150	360	Vertical		
4	4960.0000	45.55	-14.23	74.00	28.45	150	45	Vertical		
5	7440.0000	52.01	-5.89	74.00	21.99	150	18	Vertical		
6	7440.0000	40.94	-5.89	54.00	13.06	150	345	Vertical		
7	17605.4803	46.97	1.49	54.00	7.03	150	292	Vertical		



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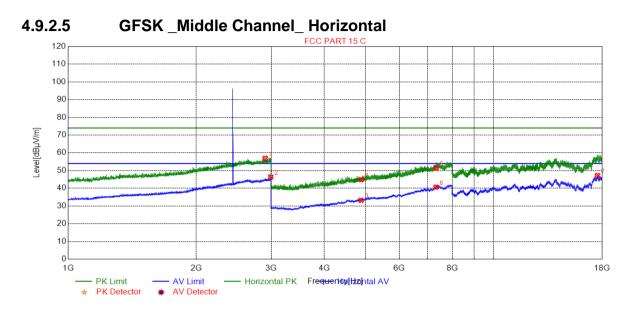


Susp	Suspected List									
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Detection		
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	2916.9792	45.36	11.40	54.00	8.64	150	195	Horizontal		
2	2949.9875	57.25	11.39	74.00	16.75	150	85	Horizontal		
3	4804.0000	33.10	-14.99	54.00	20.90	150	344	Horizontal		
4	4804.0000	45.84	-14.99	74.00	28.16	150	317	Horizontal		
5	7206.0000	51.09	-7.05	74.00	22.91	150	344	Horizontal		
6	7206.0000	38.89	-7.05	54.00	15.11	150	290	Horizontal		
7	17619.9810	47.28	1.11	54.00	6.72	150	242	Horizontal		



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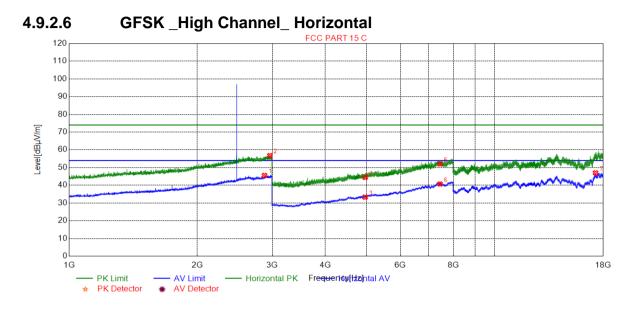


Susp	Suspected List									
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delevitu		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	2903.9760	56.91	11.41	74.00	17.09	150	73	Horizontal		
2	2992.4981	46.36	11.36	54.00	7.64	150	59	Horizontal		
3	4880.0000	33.20	-14.65	54.00	20.80	150	18	Horizontal		
4	4880.0000	44.89	-14.65	74.00	29.11	150	214	Horizontal		
5	7320.0000	51.47	-6.17	74.00	22.53	150	350	Horizontal		
6	7320.0000	40.63	-6.17	54.00	13.37	150	99	Horizontal		
7	17527.9764	47.22	0.71	54.00	6.78	150	142	Horizontal		



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Suspe	Suspected List									
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	2876.9692	45.56	11.23	54.00	8.44	150	359	Horizontal		
2	2961.4904	56.72	11.38	74.00	17.28	150	138	Horizontal		
3	4960.0000	33.30	-14.23	54.00	20.70	150	274	Horizontal		
4	4960.0000	44.46	-14.23	74.00	29.54	150	328	Horizontal		
5	7440.0000	52.01	-5.89	74.00	21.99	150	162	Horizontal		
6	7440.0000	40.70	-5.89	54.00	13.30	150	274	Horizontal		
7	17258.4629	46.99	-1.37	54.00	7.01	150	192	Horizontal		

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

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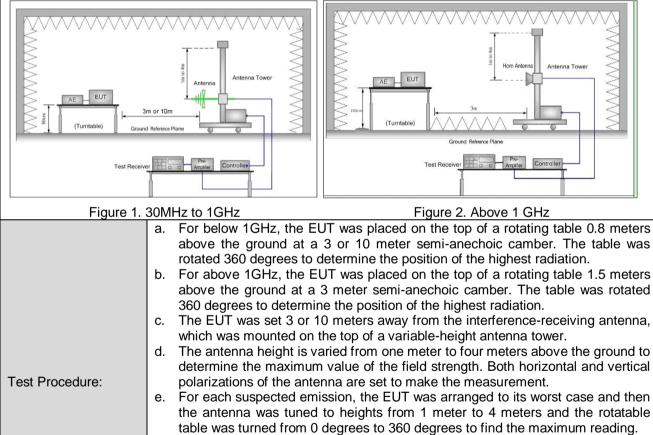
SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen Branch

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4.10 Restricted bands around fundamental frequency

		•	<u> </u>	
Test Requirement:	47 CFR Part 15C Sectio	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	
		•	•	

Test Setup:



- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- h. Test the EUT in the lowest channel, the Highest channel



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	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

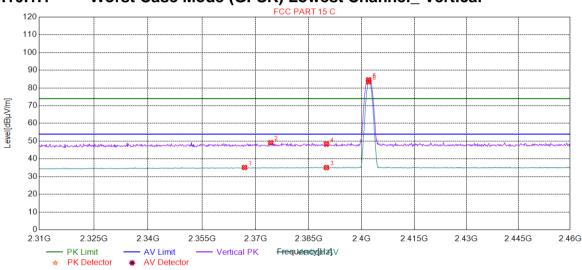
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	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting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

4.10.1 Test plots



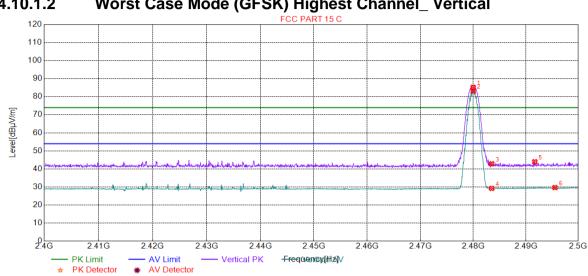
4.10.1.1 Worst Case Mode (GFSK) Lowest Channel_ Vertical

Suspe	Suspected List								
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delerity	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	2366.9069	35.16	9.12	54.00	18.84	150	66	Vertical	
2	2374.2643	49.09	9.15	74.00	24.91	150	212	Vertical	
3	2390.0000	35.11	9.20	54.00	18.89	150	176	Vertical	
4	2390.0000	48.33	9.20	74.00	25.67	150	281	Vertical	
5	2402.0000	84.61	9.24	74.00	-10.61	150	220	Vertical	
6	2402.0000	83.49	9.24	54.00	-29.49	150	176	Vertical	



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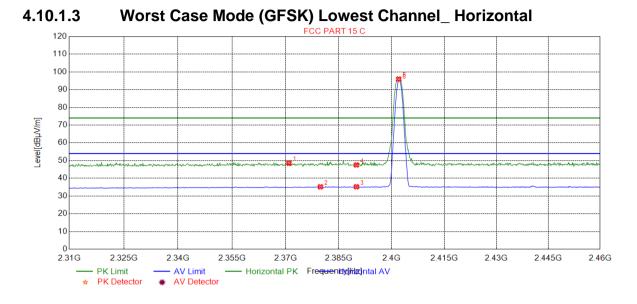


Worst Case Mode (GFSK) Highest Channel_ Vertical 4.10.1.2

Suspected List								
	Freq.	Level	Factor	Limit	Margin	Height	Angle	Deleritu
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	2480.0000	85.21	9.49	74.00	-11.21	150	194	Vertical
2	2480.0000	83.11	9.49	54.00	-29.11	150	221	Vertical
3	2483.5000	42.88	9.50	74.00	31.12	150	106	Vertical
4	2483.5000	29.22	9.50	54.00	24.78	150	346	Vertical
5	2491.6958	43.97	9.52	74.00	30.03	150	215	Vertical
6	2495.5478	29.68	9.54	54.00	24.32	150	56	Vertical



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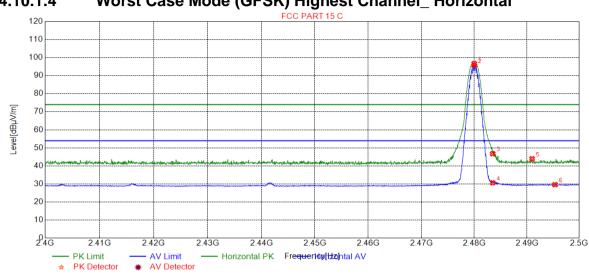


Suspected List Level Limit Factor Margin Height Angle Freq. NO. Polarity [MHz] [dBµV/m] [dB] [dBµV/m] [dB] [cm] [°] 1 2370.9610 48.50 9.13 74.00 25.50 150 187 Horizontal 2 2379.8198 35.17 9.16 54.00 18.83 150 307 Horizontal 3 2390.0000 35.21 9.20 54.00 18.79 150 14 Horizontal 4 47.54 70 2390.0000 9.20 74.00 26.46 150 Horizontal 150 299 5 2402.0000 95.98 9.24 74.00 -21.98 Horizontal 6 95.11 9.24 54.00 -41.11 150 304 2402.0000 Horizontal



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4.10.1.4 Worst Case Mode (GFSK) Highest Channel_ Horizontal

Suspected List								
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delerity
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	2480.0000	96.67	9.49	74.00	-22.67	150	306	Horizontal
2	2480.0000	95.64	9.49	54.00	-41.64	150	306	Horizontal
3	2483.5000	46.76	9.50	74.00	27.24	150	311	Horizontal
4	2483.5000	30.68	9.50	54.00	23.32	150	306	Horizontal
5	2490.9955	43.98	9.52	74.00	30.02	150	253	Horizontal
6	2495.3477	29.64	9.54	54.00	24.36	150	161	Horizontal

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

	Condu	cted Emission			
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate
rest Equipment		inventory No.	(yyyy-mm-dd)	(yyyy-mm-do	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/4/1	2020/3/31
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	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1
	RF co	onducted test			
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate
rest Equipment	Wanulacturer	Woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-de
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
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	2018/11/27	2019/11/2
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14
	RE	in Chamber			
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
Test Equipment	Manulacturer	Widder No.	inventory 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	2019/6/12	2020/6/11
			0514004.05	2019/7/14	2020/7/14
MXE EMI Receiver (20Hz- 8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/1/14
(Agilent Technologies	N9038A 3142C	SEM004-05	2019/7/14 2017/6/27	2020/6/26

RE in Chamber								
Tost Equipment	est Equipment Manufacturer Model No. Inventory No.	Madal Na	Inventory No	Cal. date	Cal.Due date			
rest Equipment		inventory No.	(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	2019/6/12	2020/6/11			
EXA Signal Analyzer (10Hz- 26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11			
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	2019/3/2	2020/3/1			
Band filter	N/A	N/A	SEM023-01	N/A	N/A			



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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	2019/3/2	2020/3/1			
Trilog-Broadband Antenna(25M- 2GHz)	Schwarzbeck	VULB9168	SEM003-18	2018/3/15	2020/3/14			
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/3/12	2020/3/11			
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	2019/6/12	2020/6/11			

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for HR/2019/90003.

The End



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