



**SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch**

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Report No.: SZEM150700468301
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FCC REPORT

Application No: SZEM1507004683CR
Applicant: Disney Interactive Studios, Inc.
Manufacturer: Disney Interactive Studios, Inc.
Factory: Shenzhen King Chuang Tech&Electronic Co., Ltd.
Product Name: Disney Infinity Base INF-8040889
Model No.(EUT): INF-8040889
Trade Mark: Disney Infinity
FCC ID: QOF-8040889
Standards: 47 CFR Part 15, Subpart C (2014)
Date of Receipt: 2015-07-30
Date of Test: 2015-07-30 to 2015-08-14
Date of Issue: 2015-08-18

Test Result:	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

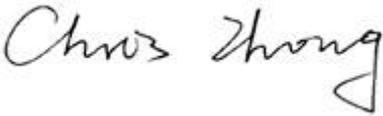
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-08-18		Original

Authorized for issue by:			
Tested By	 _____ (Chris Zhong) /Project Engineer	2015-08-14	
			Date
Prepared By	 _____ (Vivi Zhou) /Clerk	2015-08-18	
			Date
Checked By	 _____ (Sen Lv) /Reviewer	2015-08-18	
			Date



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2009	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2009	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2009	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS

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5 General Information

5.1 Client Information

Applicant:	Disney Interactive Studios, Inc.
Address of Applicant:	1200 Grand Central Avenue, Glendale, California, 91201 United States
Manufacturer:	Disney Interactive Studios, Inc.
Address of Manufacturer:	1200 Grand Central Avenue, Glendale, California, 91201 United States
Factory:	Shenzhen King Chuang Tech&Electronic Co., Ltd.
Address of Factory:	Block A, Mountain Top, Fuyuan Industrial Zone, Jiuwei, Xixiang Town, Shenzhen, China

5.2 General Description of EUT

Product Name:	Disney Infinity Base INF-8040889
Model No.:	INF-8040889
Trade Mark:	Disney Infinity
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.0 BLE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Fixed production
Test Software of EUT:	Nordic Soft Device Stack S110 V8.0 with Application code V1.0 (manufacturer declare)
Antenna Type:	Integral
Antenna Gain:	0dBi
Adapter:	Model: FJ-SW0500500U Input: AC 100-240V 50/60Hz 0.35A MAX Output: DC 5V 500mA
Test Voltage:	AC 120V/60Hz



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

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	2402MHz
The Middle channel	2440MHz
The Highest channel	2480MHz



5.3 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
iPad(supplied by client)	Apple	A1566

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

5.6 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.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

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

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.





5.10 Equipment List

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2015-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2015-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2015-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2016-05-13
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13



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RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2015-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2015-10-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2016-05-13
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2015-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2016-05-13

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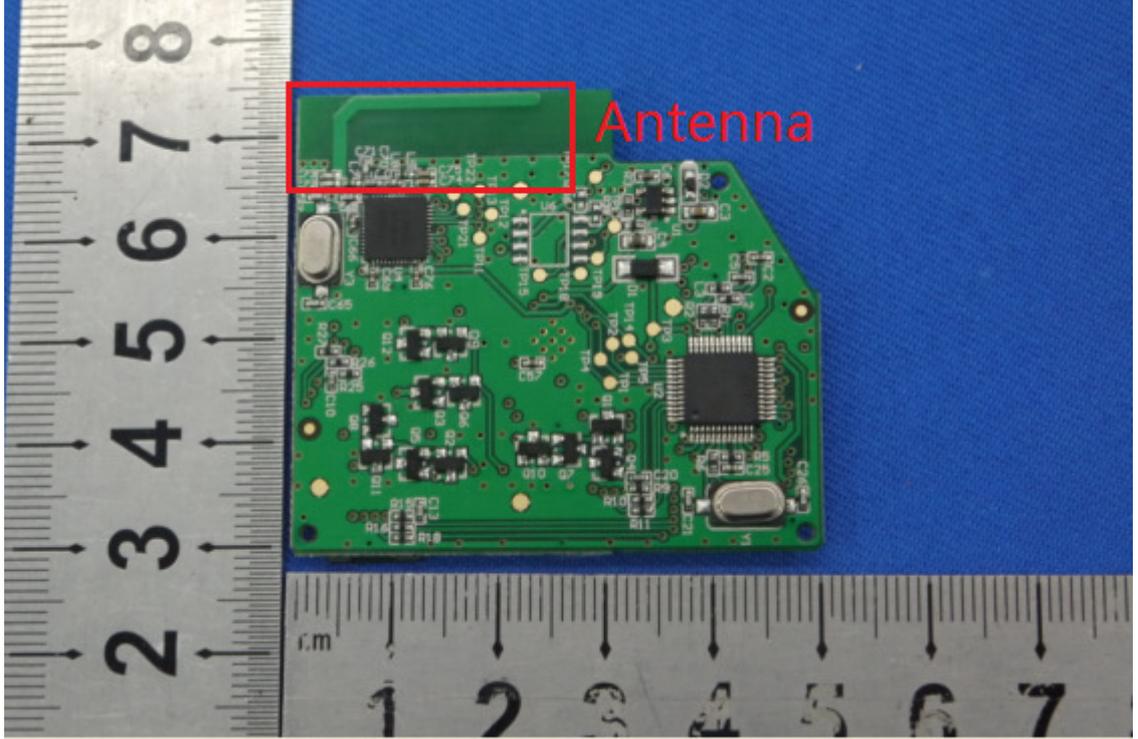


RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2016-04-25
8	Band filter	amideon	82346	SEL0094	2016-05-13
9	POWER METER	R & S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.

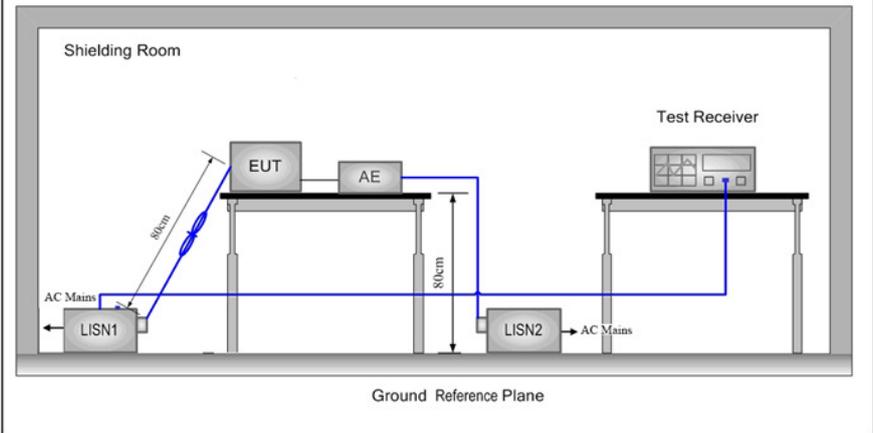
6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>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.</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.</p>	

6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2009		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 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 ANSI C63.10: 2009 on conducted measurement. 		

<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting with GFSK modulation</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

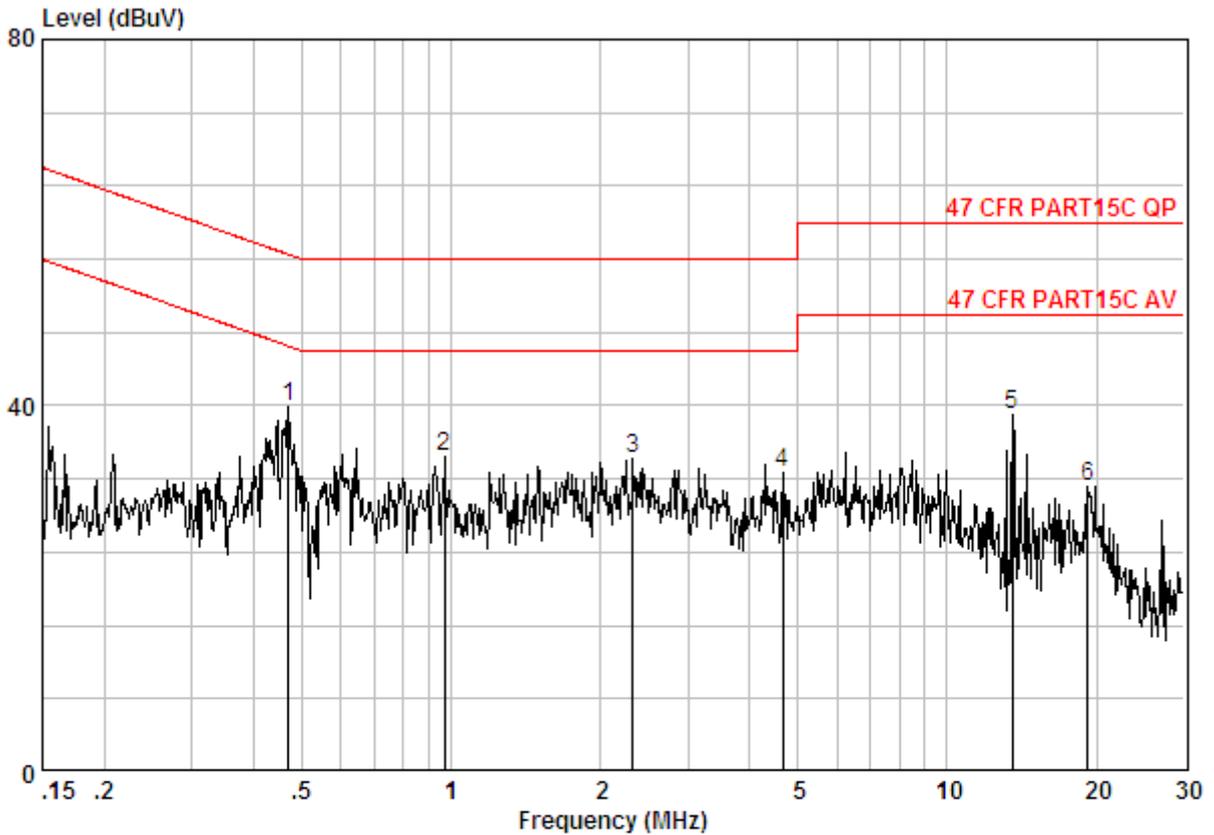


Measurement Data

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:



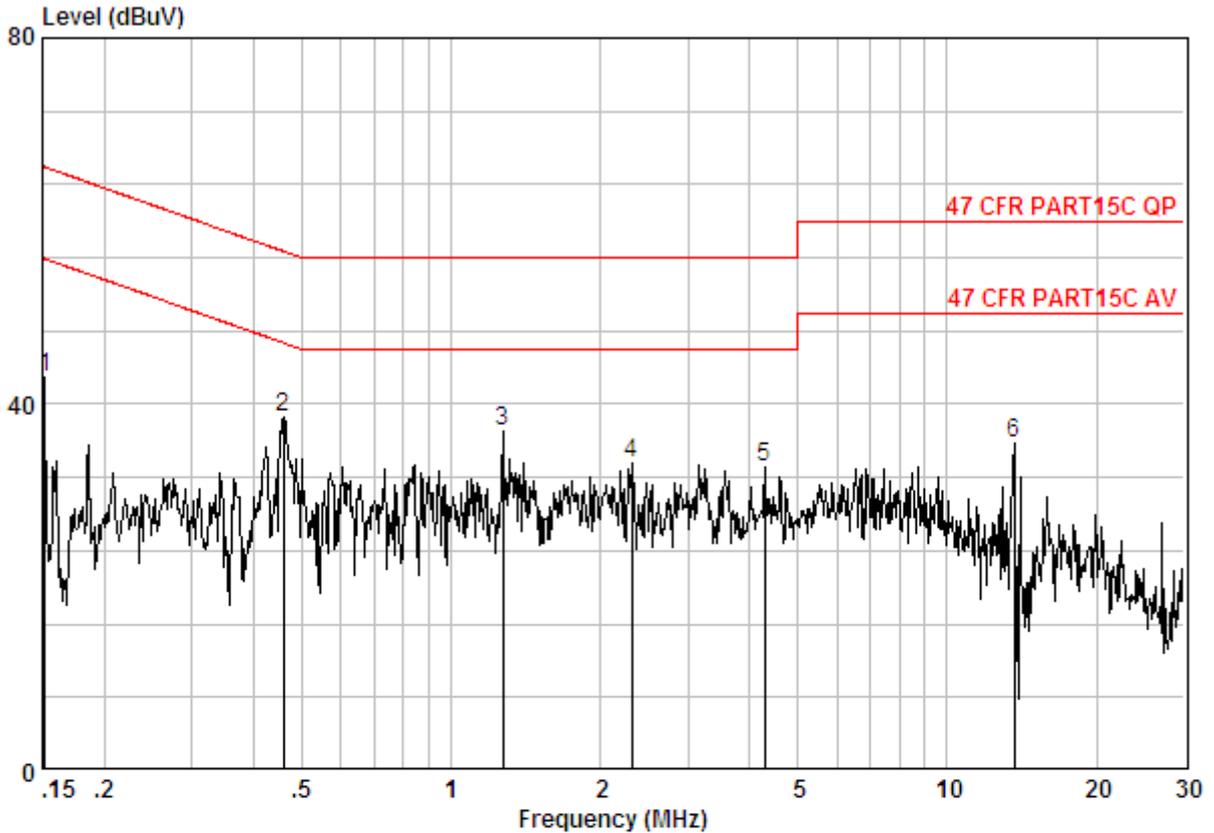
Site : Shielding Room
 Condition : 47 CFR PART15C AV CE LINE
 Job No. : 4683CR
 Test mode : TX

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1 @	0.47110	0.01	9.86	29.97	39.84	46.49	-6.66 Peak
2	0.96840	0.02	9.89	24.43	34.34	46.00	-11.66 Peak
3	2.321	0.02	9.98	24.18	34.18	46.00	-11.82 Peak
4	4.672	0.01	10.11	22.56	32.68	46.00	-13.32 Peak
5	13.551	0.01	10.16	28.75	38.92	50.00	-11.08 Peak
6	19.224	0.02	10.28	20.91	31.21	50.00	-18.79 Peak

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Neutral line:



Site : Shielding Room
Condition : 47 CFR PART 15C AV CE NEUTRAL
Job No. : 4683CR
Test mode : TX

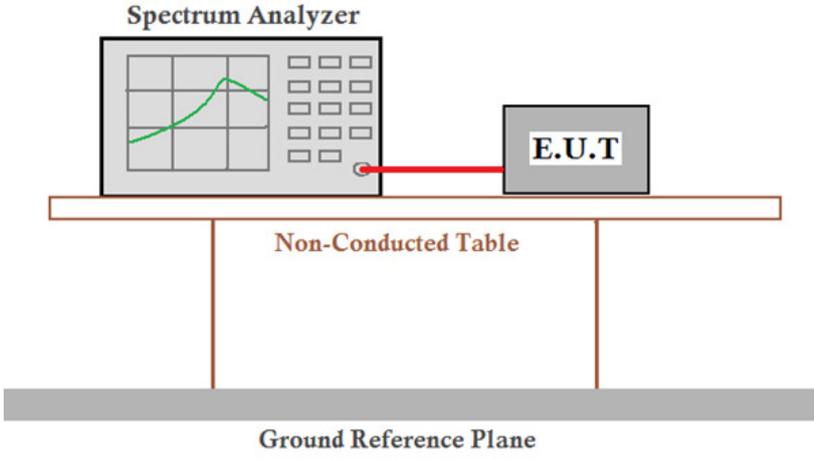
	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Line	Over Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15160	0.02	9.78	33.16	42.96	55.91	-12.95 Peak
2 @	0.45878	0.01	9.88	28.79	38.67	46.71	-8.04 Peak
3	1.269	0.02	10.05	26.88	36.95	46.00	-9.05 Peak
4	2.309	0.02	10.12	23.50	33.64	46.00	-12.36 Peak
5	4.292	0.01	10.13	23.03	33.17	46.00	-12.83 Peak
6	13.623	0.01	10.20	25.58	35.79	50.00	-14.21 Peak

Notes:

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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6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Limit:	30dBm
Test Mode:	Transmitting with GFSK modulation
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

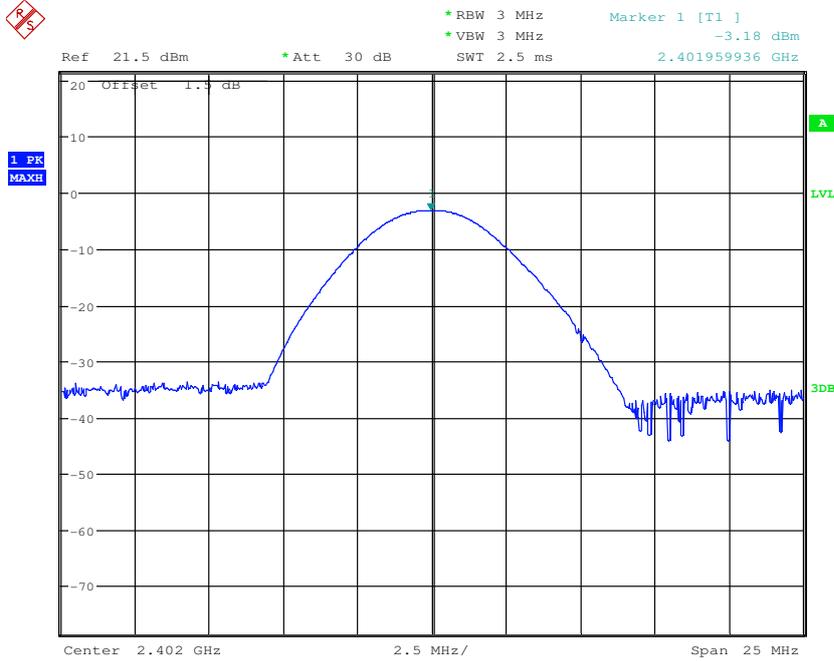
Measurement Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.18	30.00	Pass
Middle	-4.39	30.00	Pass
Highest	-6.20	30.00	Pass

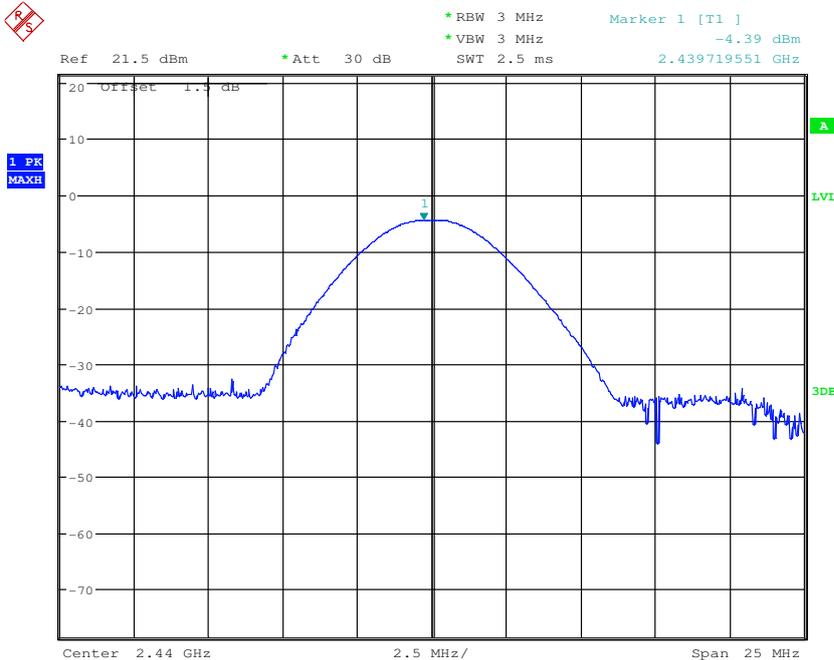


Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
------------	------	---------------	--------



Test mode:	GFSK	Test channel:	Middle
------------	------	---------------	--------



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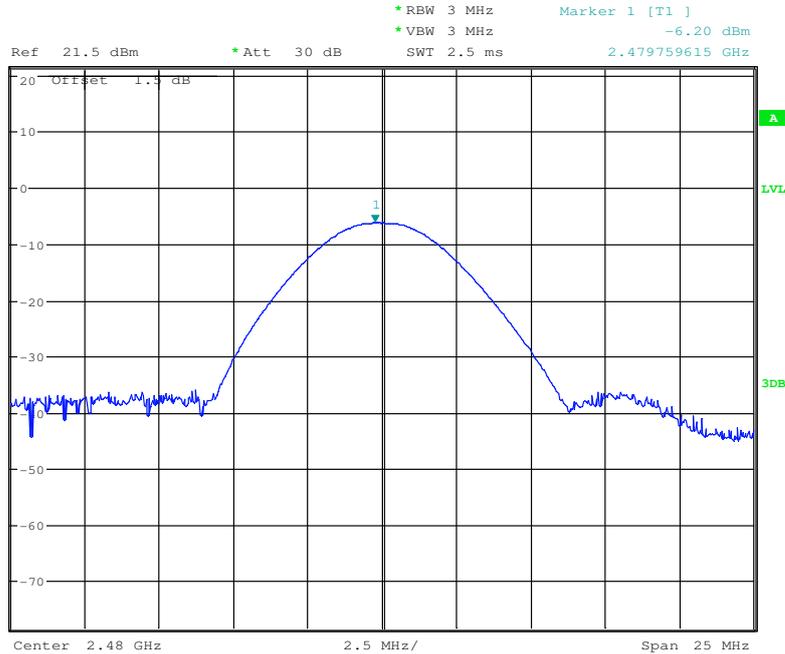


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Report No.: SZEM150700468301

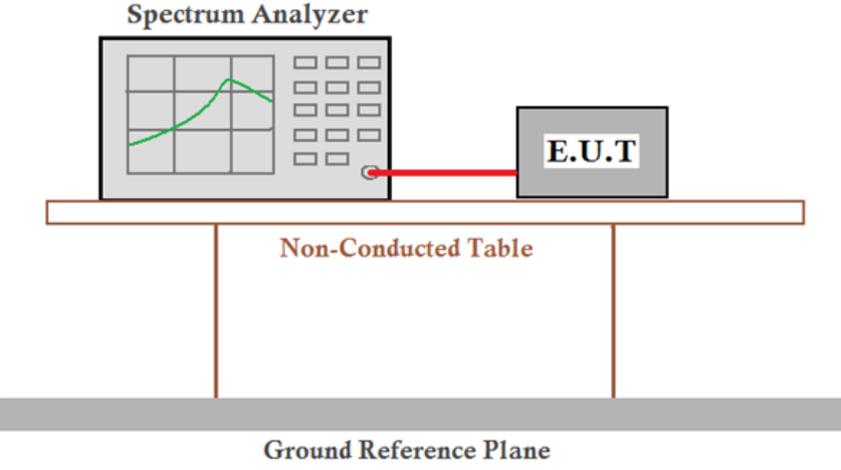
Page: 19 of 58

Test mode:	GFSK	Test channel:	Highest
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6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2009
Test Setup:	
Limit:	≥ 500 kHz
Test Mode:	Transmitting with GFSK modulation
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

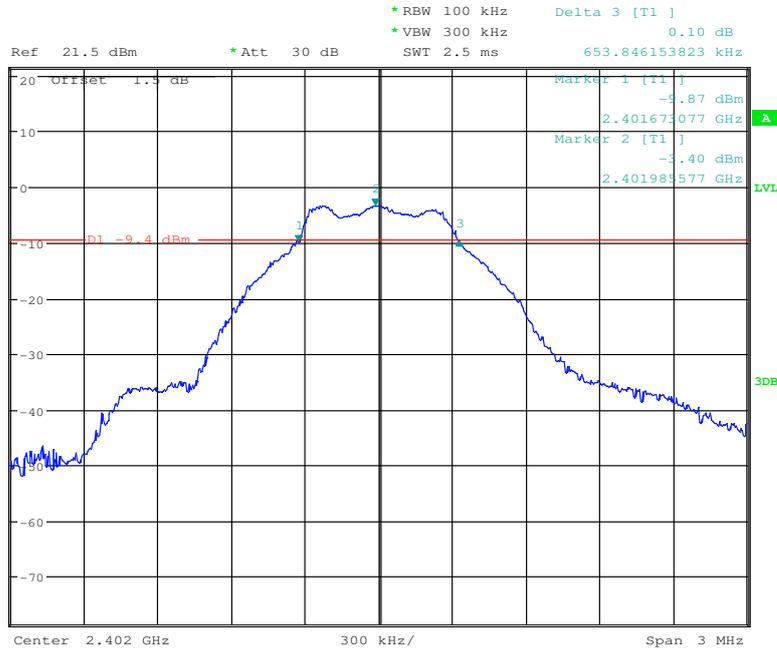
Measurement Data

Test channel	6dB Occupy Bandwidth (kHz)	Limit (kHz)	Result
Lowest	653.85	≥500	Pass
Middle	669.87	≥500	Pass
Highest	658.65	≥500	Pass

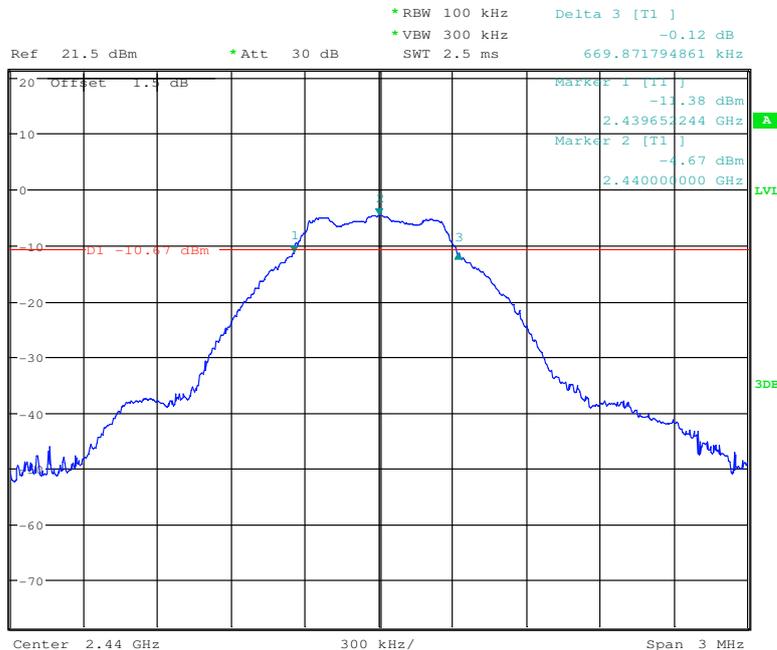


Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Test mode:	GFSK	Test channel:	Middle
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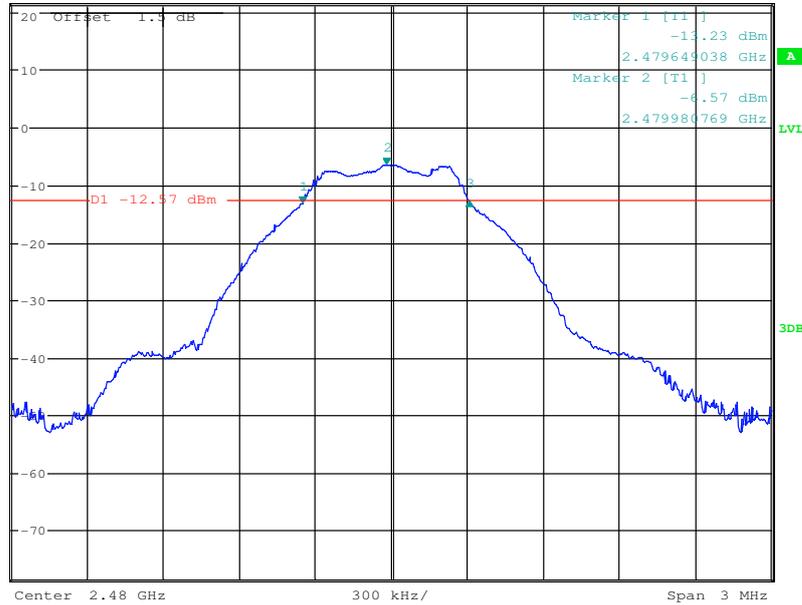
Page: 22 of 58

Test mode:	GFSK	Test channel:	Highest
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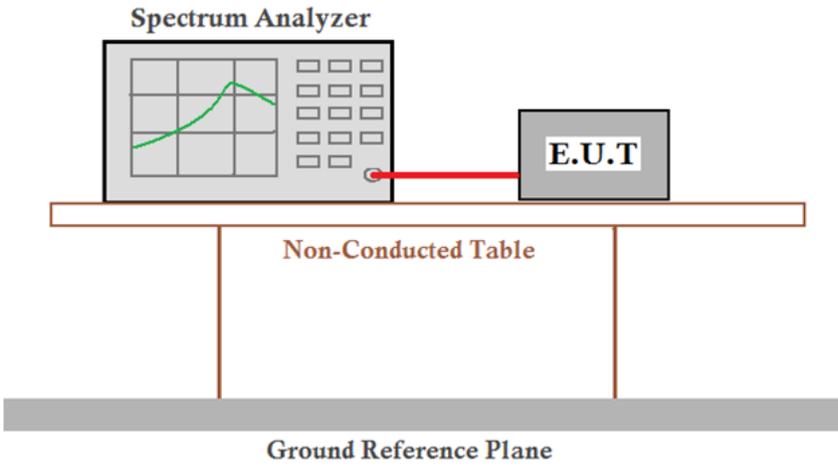
Ref 21.5 dBm *Att 30 dB *RBW 100 kHz Delta 3 [T1] 0.41 dB
*VBW 300 kHz 658.653846138 kHz
SWT 2.5 ms

1 PK
VIEW



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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2009
Test Setup:	
Limit:	≤8.00dBm/3kHz
Test Mode:	Transmitting with GFSK modulation
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

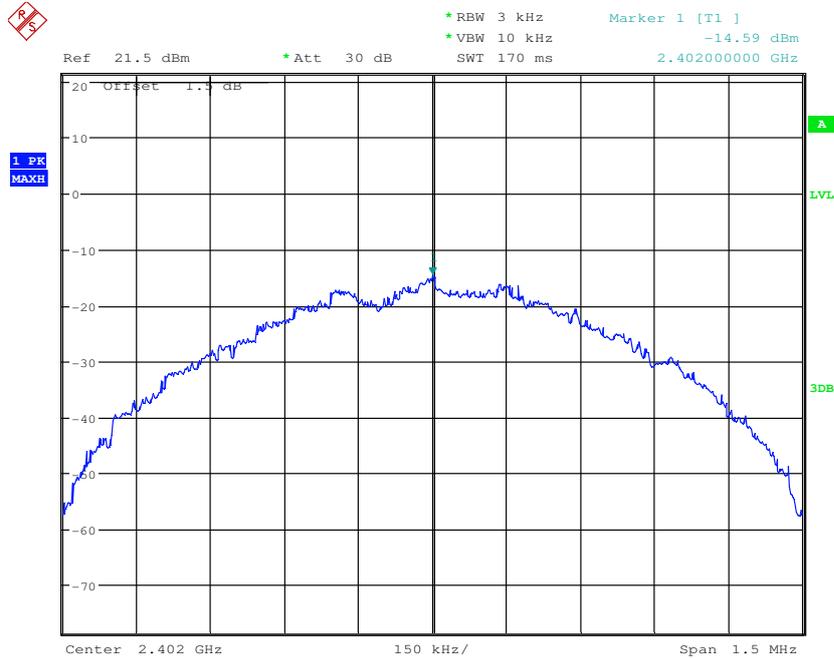
Measurement Data

GFSK mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-14.59	≤8.00	Pass
Middle	-16.55	≤8.00	Pass
Highest	-17.55	≤8.00	Pass

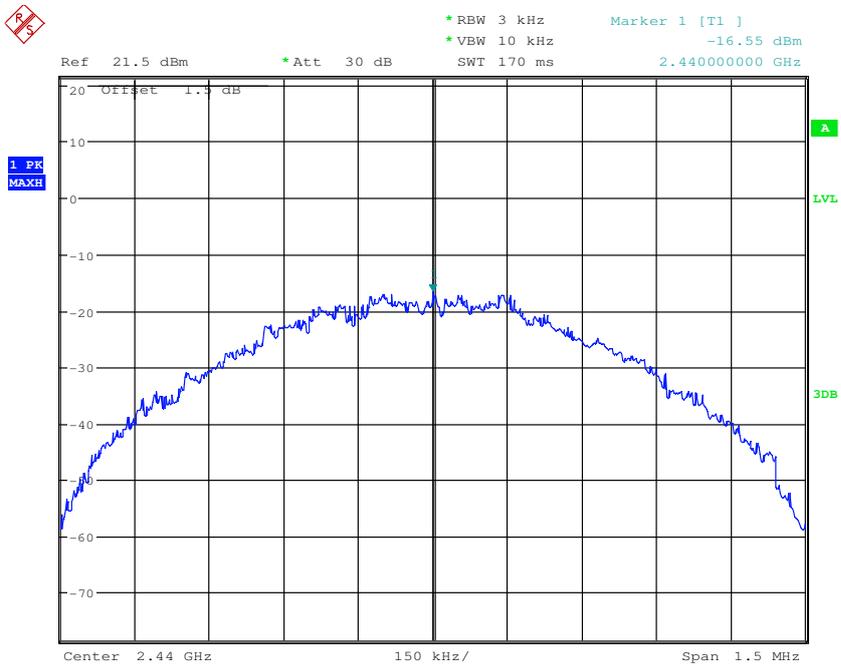


Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Test mode:	GFSK	Test channel:	Middle
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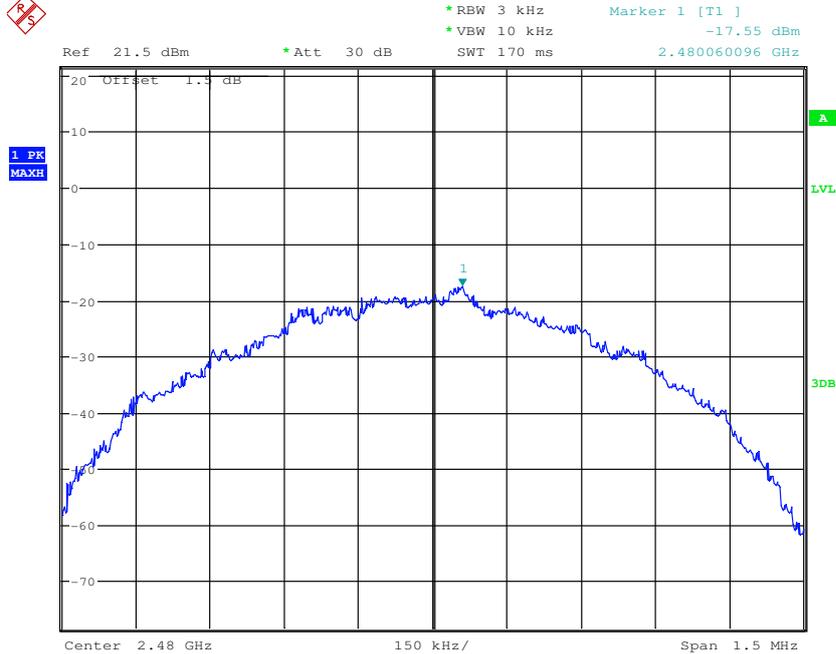


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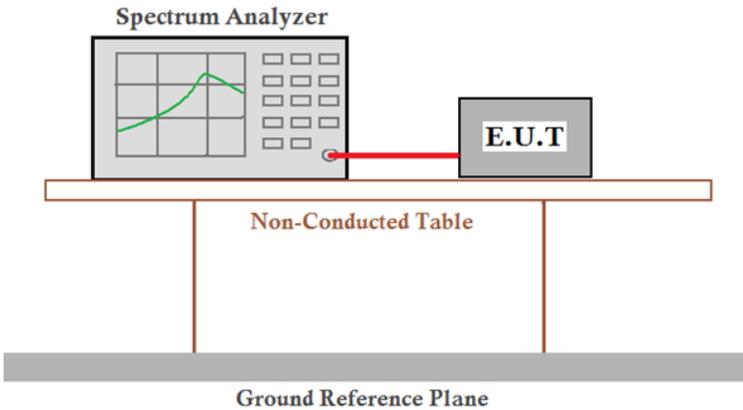
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Test mode:	GFSK	Test channel:	Highest
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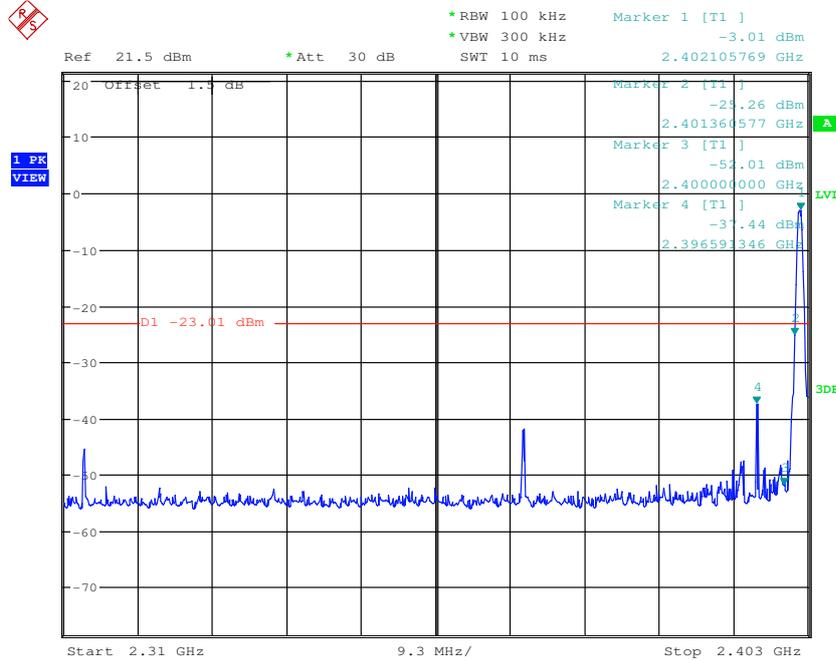
6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
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

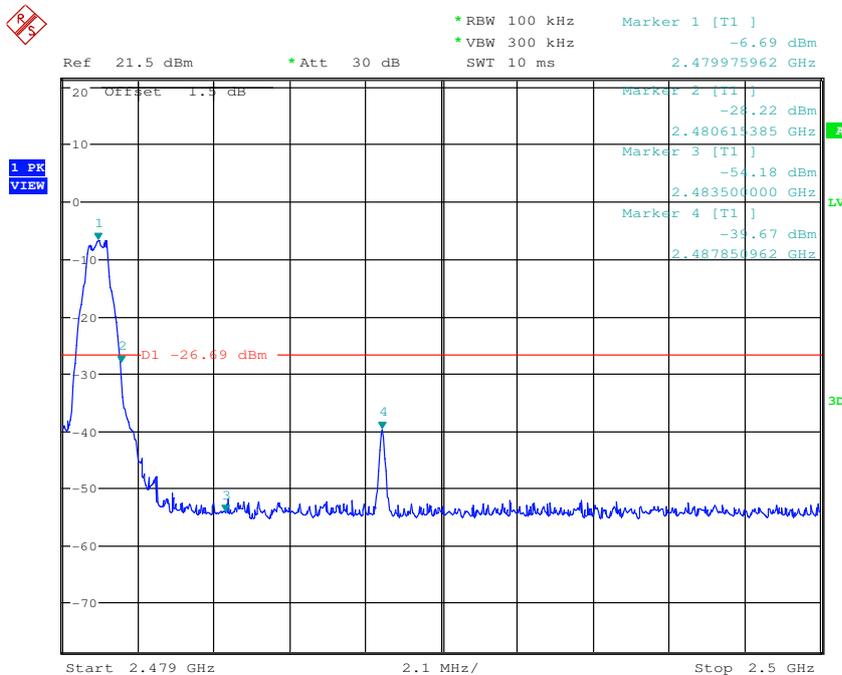


Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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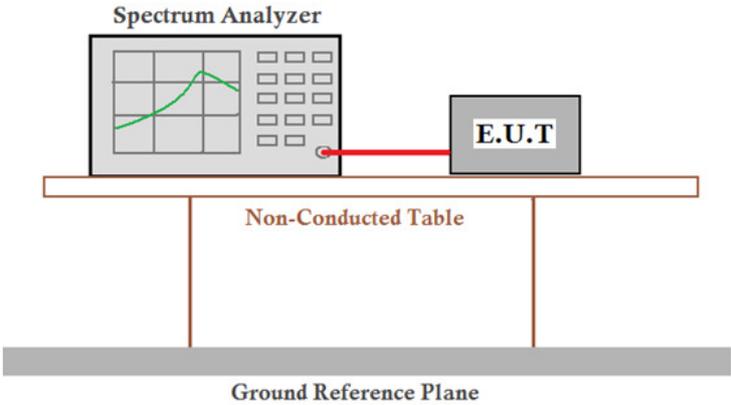


Test mode:	GFSK	Test channel:	Highest
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6.7 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
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

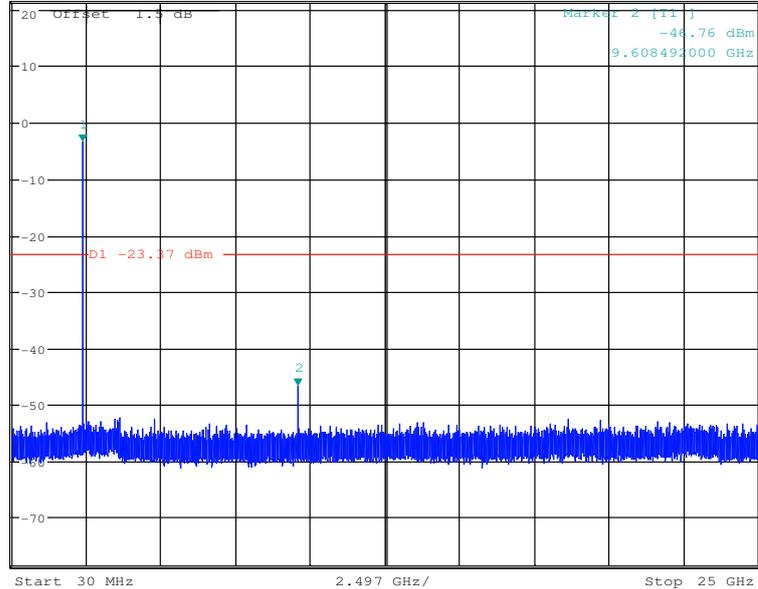




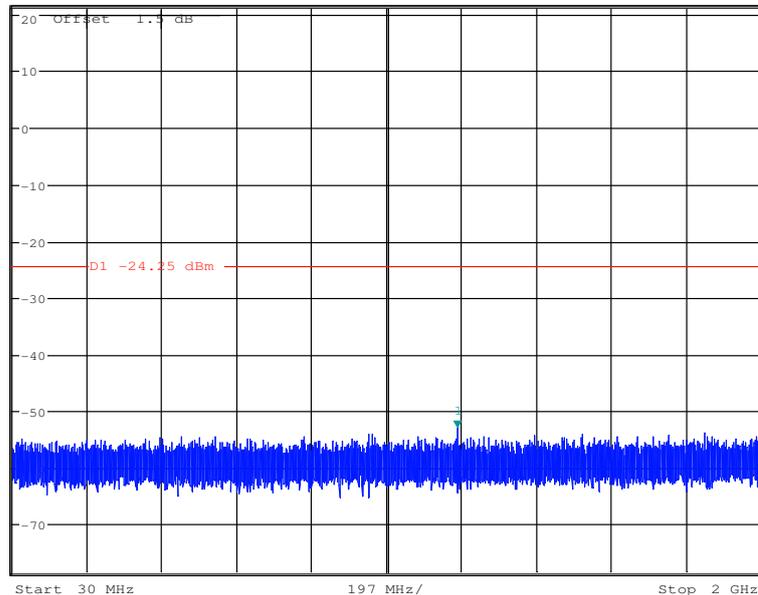
Test mode:	GFSK	Test channel:	Lowest
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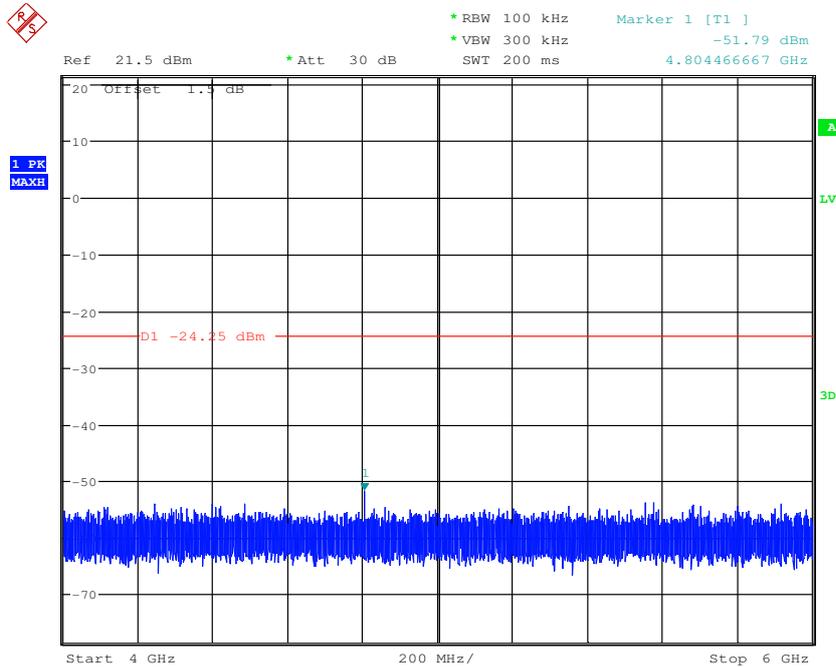
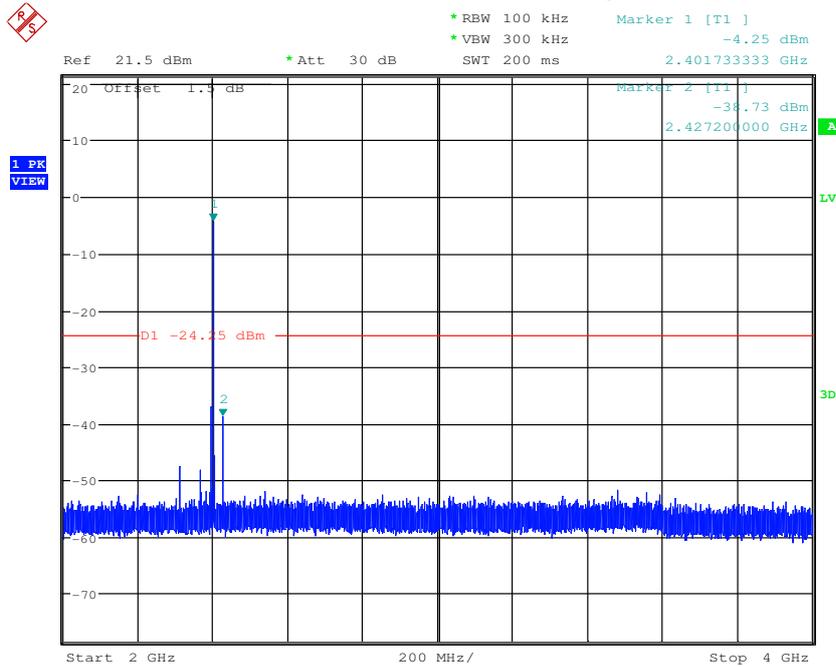
Ref 21.5 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -3.37 dBm
*VBW 300 kHz 2.401317667 GHz
SWT 2.5 s



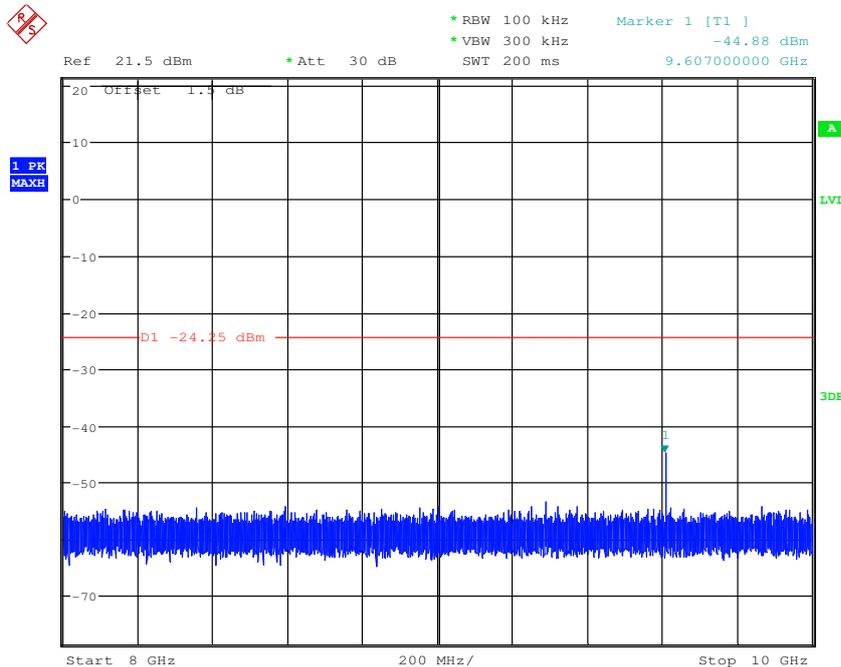
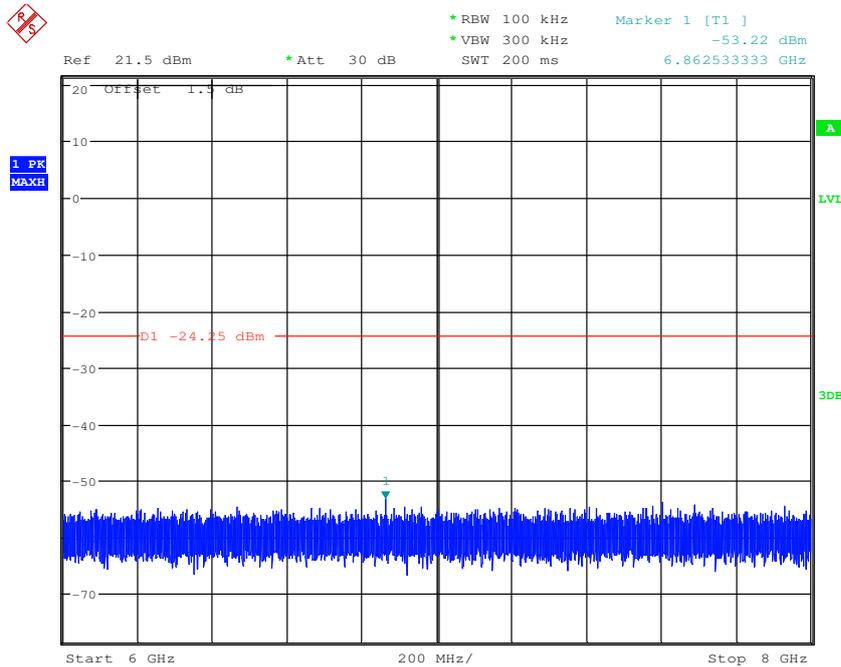
Ref 21.5 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -52.91 dBm
*VBW 300 kHz 1.200968000 GHz
SWT 200 ms



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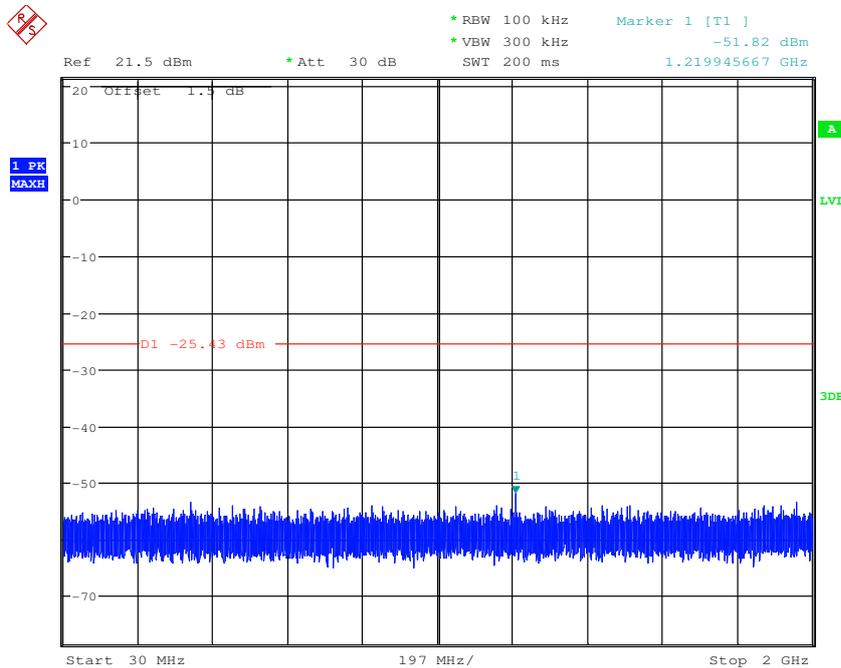
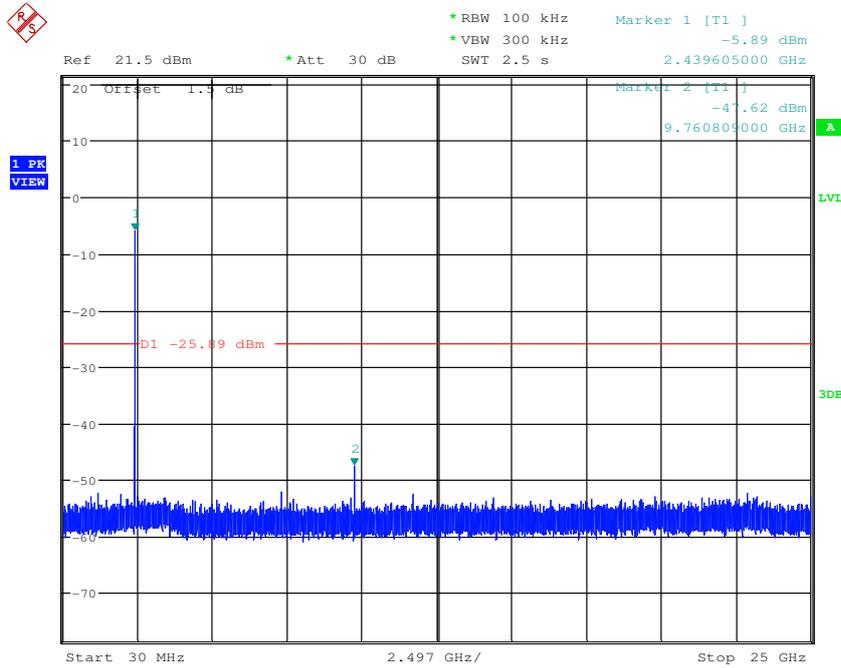


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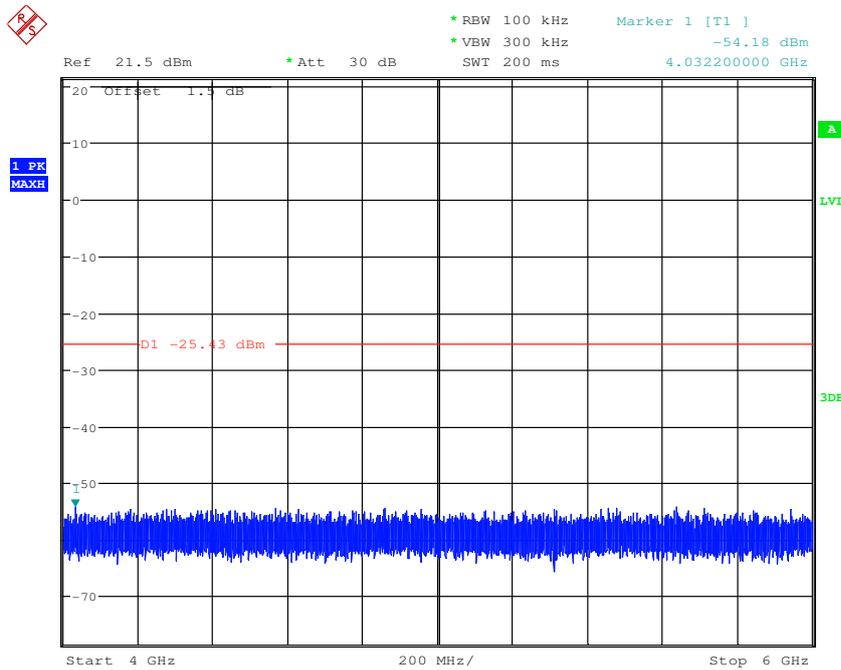
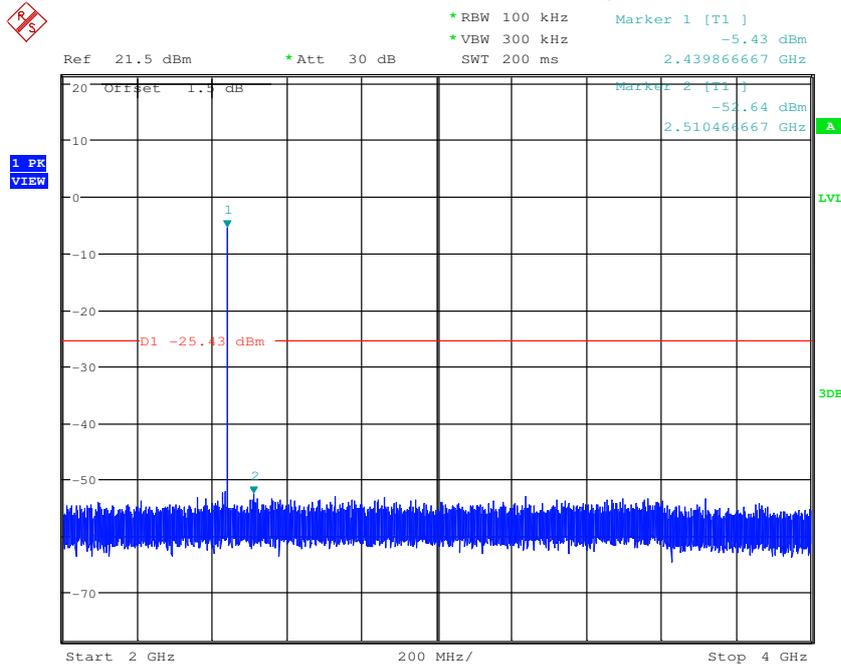
Report No.: SZEM150700468301

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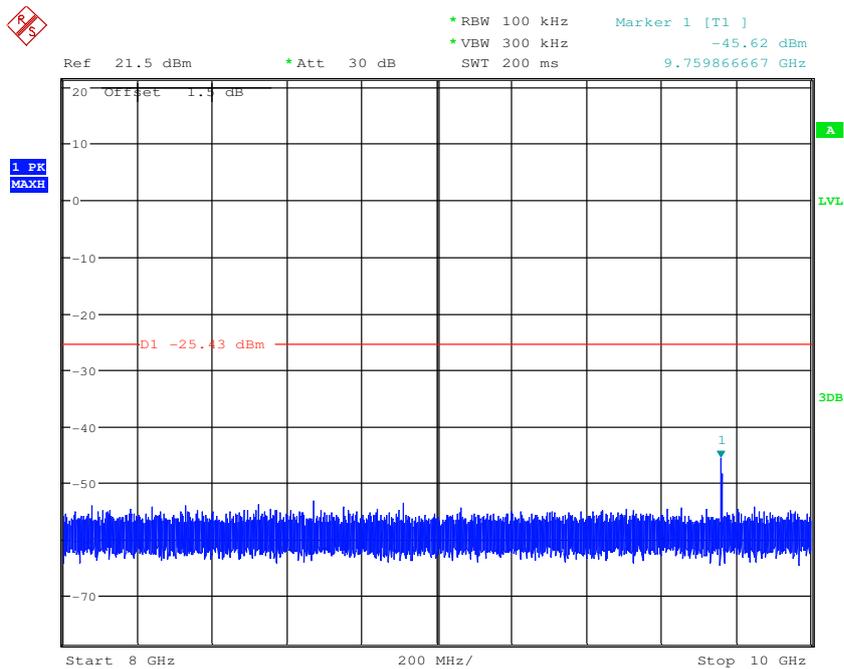
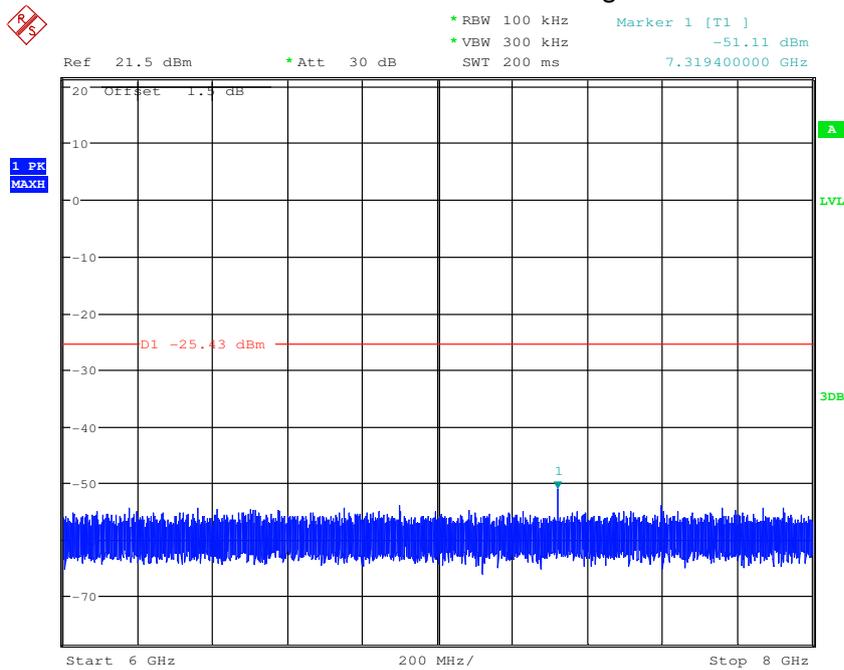
Test mode:	GFSK	Test channel:	Middle
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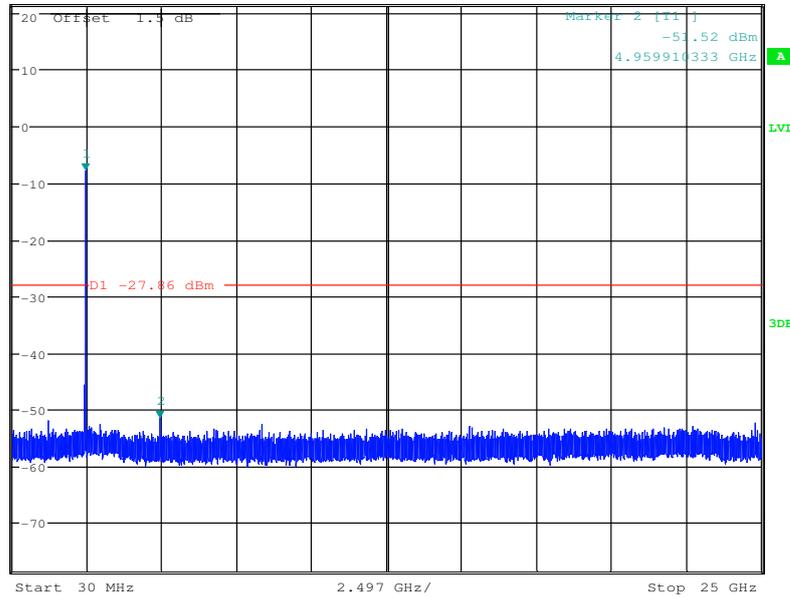
Report No.: SZEM150700468301

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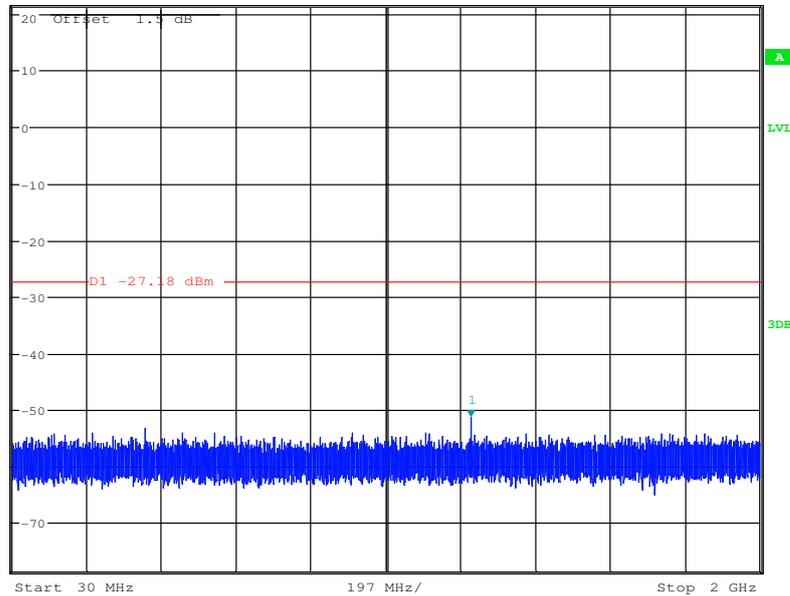
Test mode:	GFSK	Test channel:	Highest
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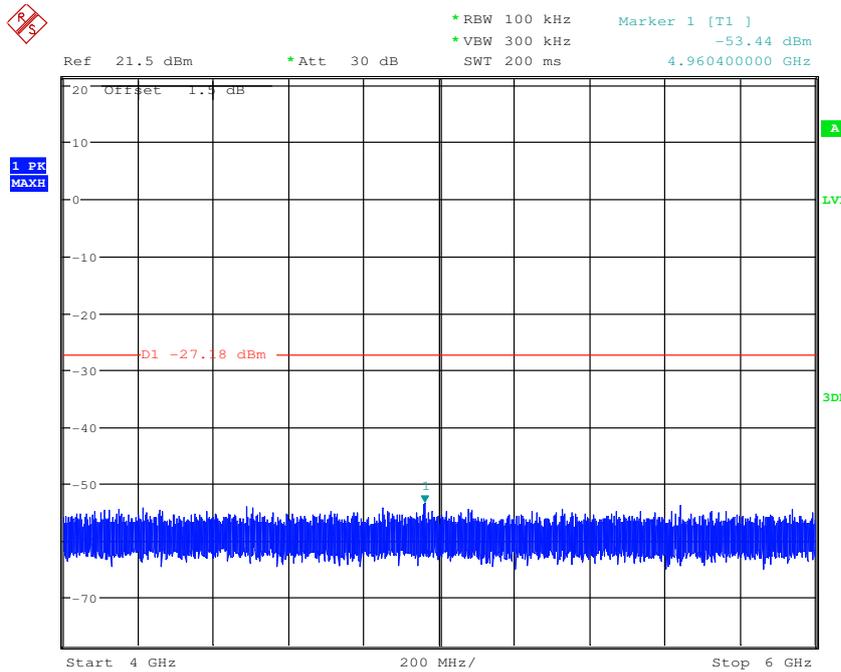
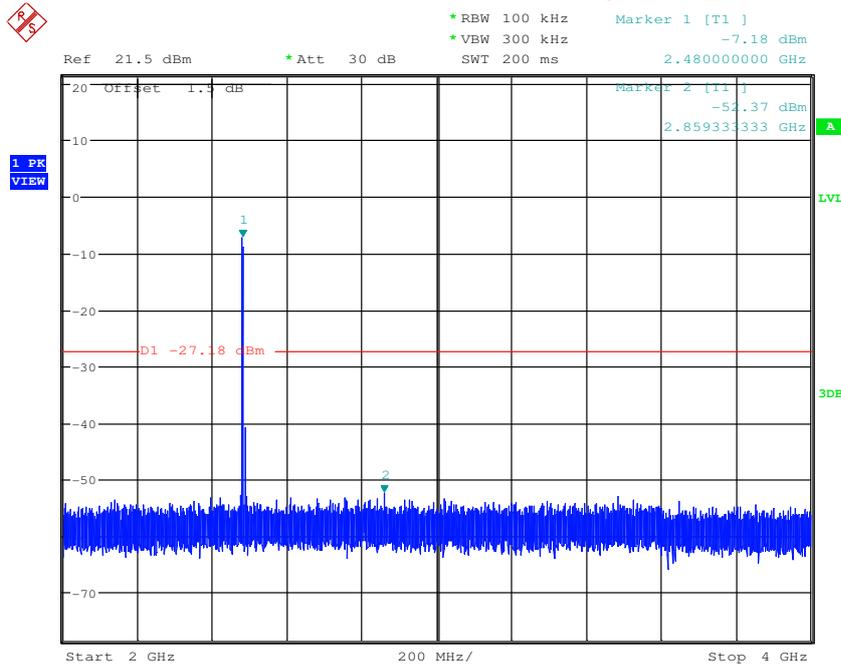
Ref 21.5 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -7.86 dBm
*VBW 300 kHz 2.47957000 GHz
SWT 2.5 s



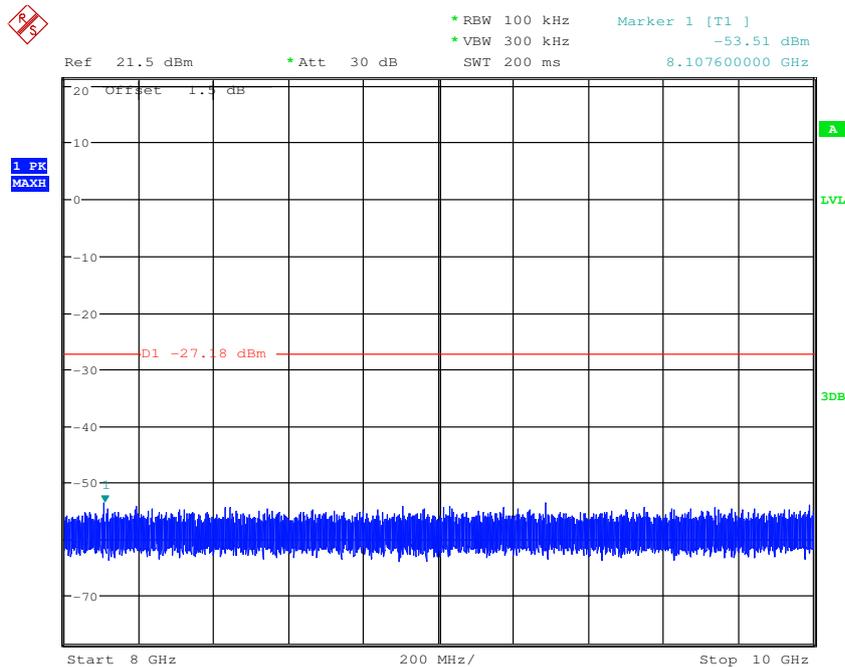
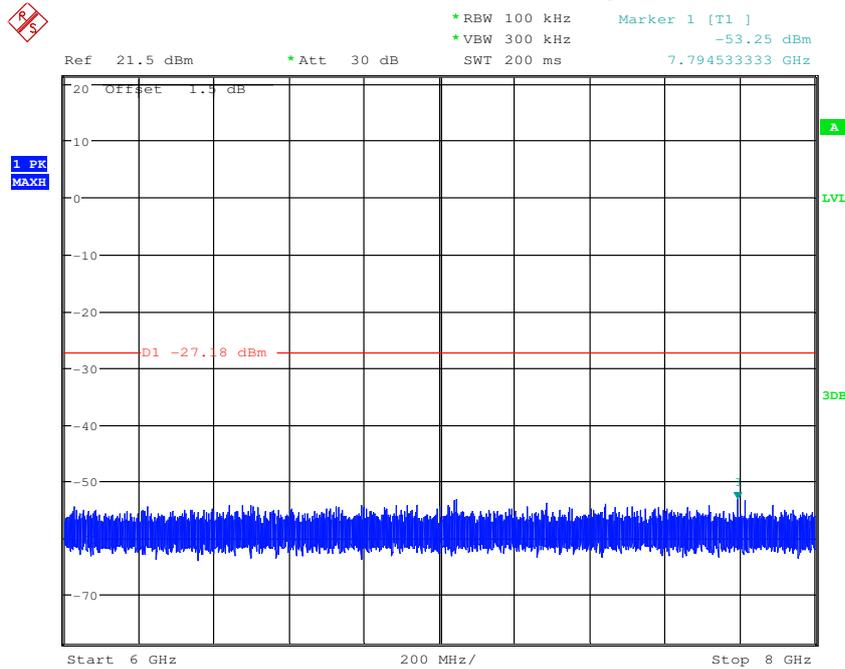
Ref 21.5 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -51.29 dBm
*VBW 300 kHz 1.239974000 GHz
SWT 200 ms



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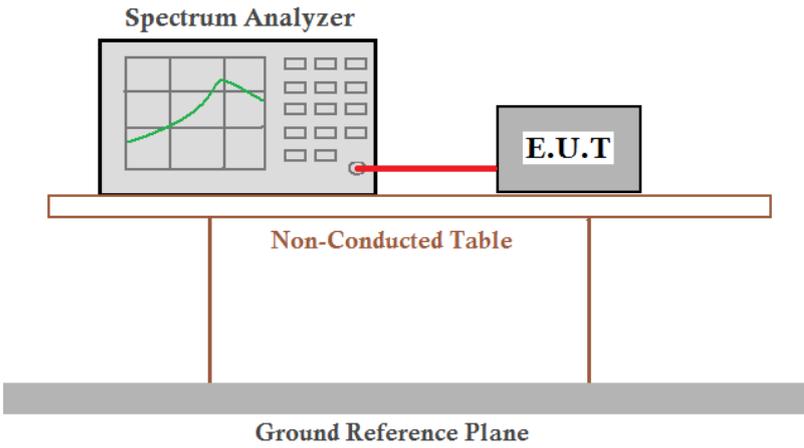
Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o), The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

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6.8 Radiated Spurious Emission

6.8.1 Duty Cycle

Test Requirement:	47 CFR Part 15C Section 15.35 (c)
Test Method:	ANSI C63.10 2009
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Limit:	N/A
Test Mode:	Transmitting with GFSK modulation
Test Results:	Pass

Measurement Data

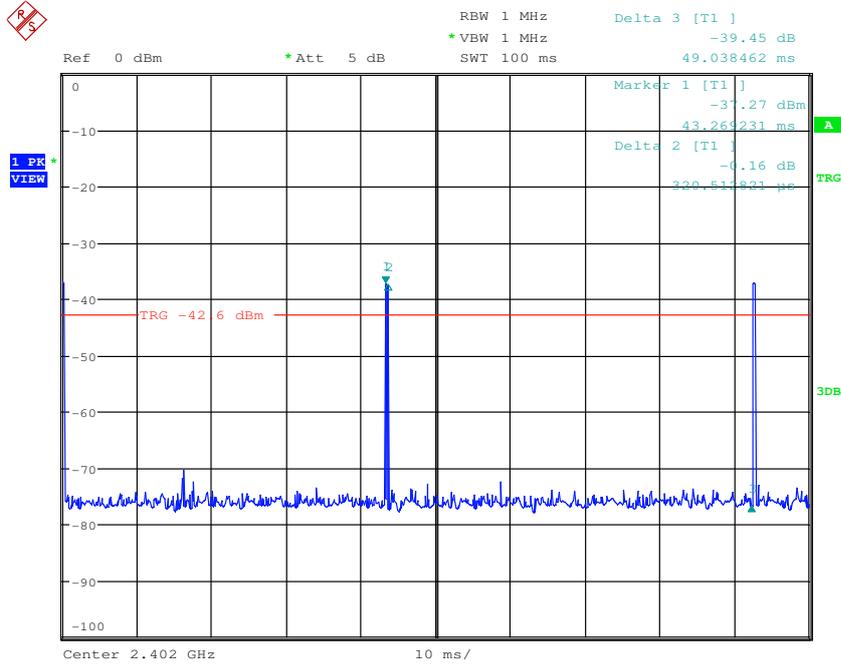
Calculate Formula:	Average factor=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =6.38
	T period =100
	Average value= Peak value+20 log(Duty cycle)



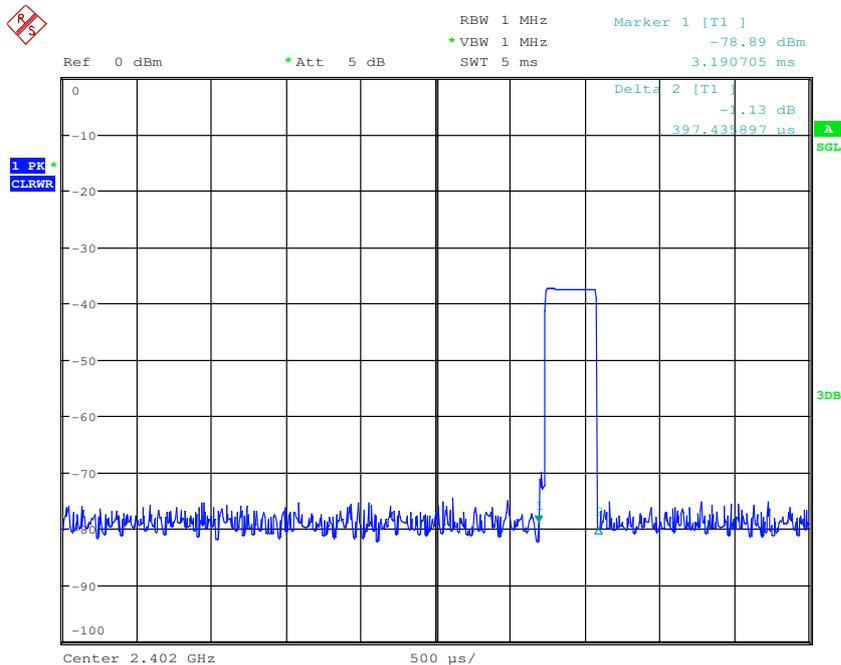


Test plot as follows:

Duty cycle numbers



Time slot:



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6.8.2 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2009				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
<p>Note: 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.</p>					
Test Setup:					

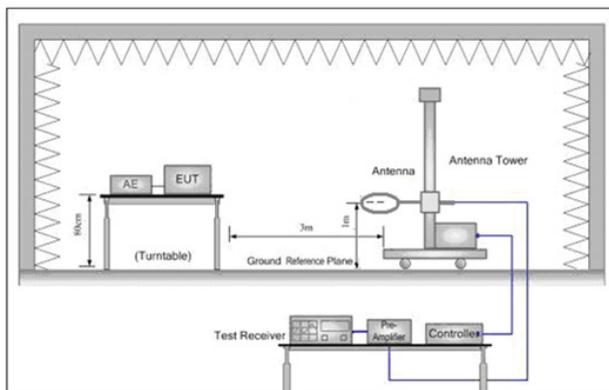


Figure 1. Below 30MHz

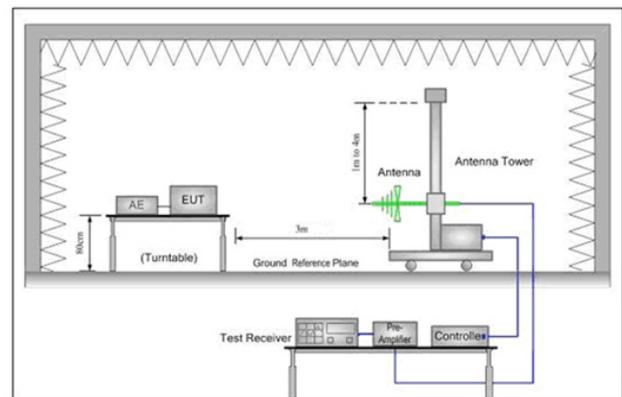


Figure 2. 30MHz to 1GHz

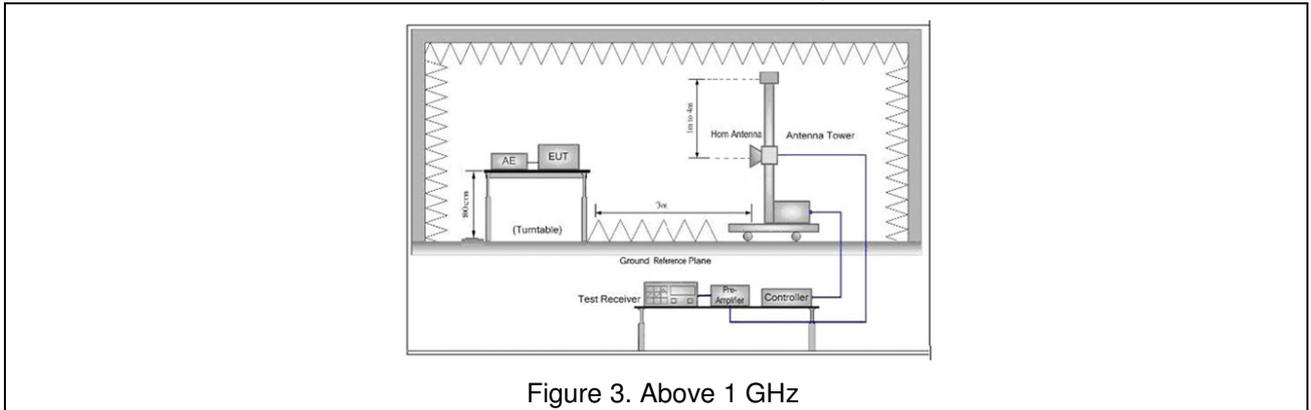
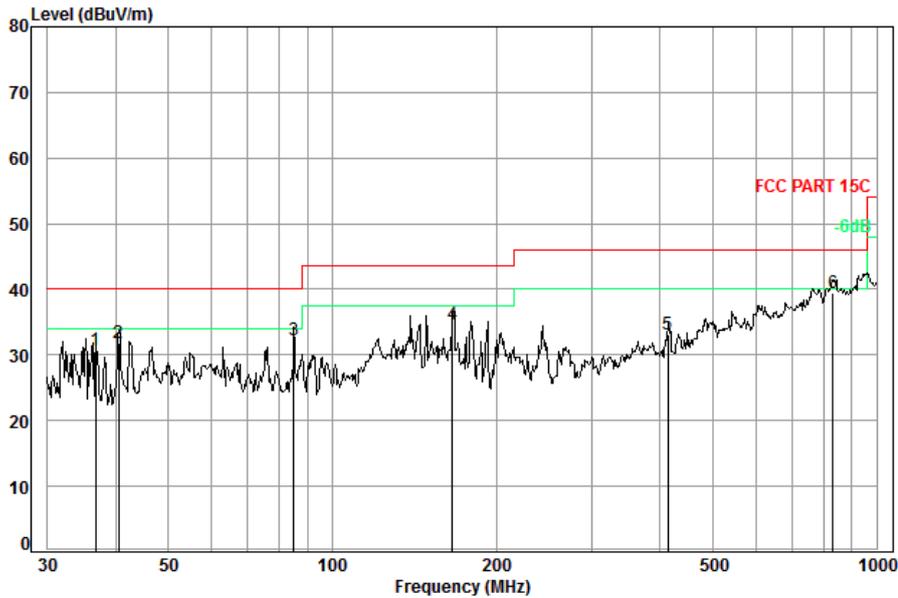


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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) 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.
<p>Exploratory Test Mode:</p>	<p>Transmitting with GFSK modulation</p>
<p>Final Test Mode:</p>	<p>Transmitting with GFSK modulation For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>



Radiated Emission below 1GHz		
30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical



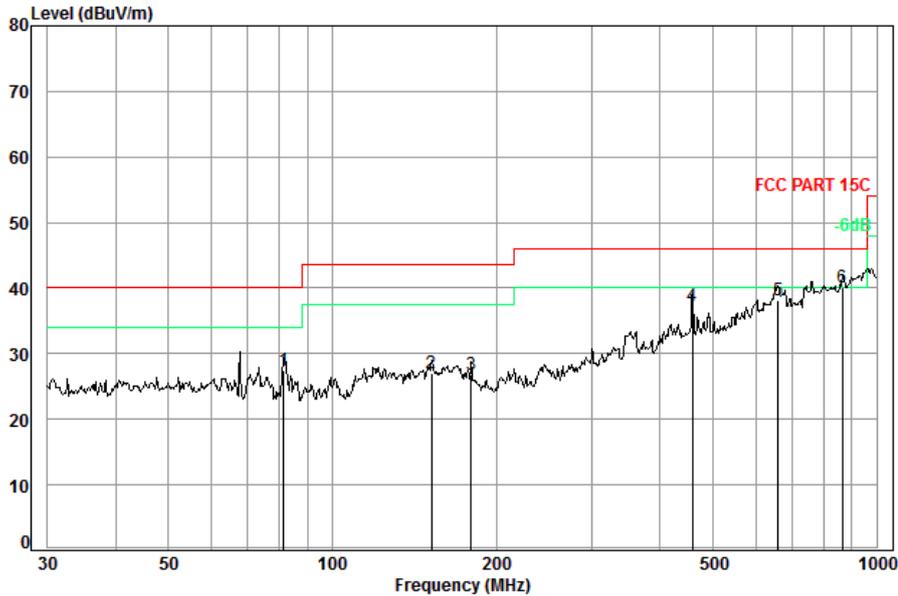
Condition: FCC PART 15C 3m Vertical
Job No. : 4683CR
Test Mode: b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	6.74	12.48	32.65	44.16	30.73	40.00	-9.27
2	40.56	6.80	12.71	32.64	44.89	31.76	40.00	-8.24
3	85.00	7.15	8.68	32.65	49.01	32.19	40.00	-7.81
4	166.07	7.60	13.54	32.61	46.19	34.72	43.50	-8.78
5	413.27	8.43	15.57	32.54	41.60	33.06	46.00	-12.94
6 pp	830.40	9.48	21.96	32.21	40.24	39.47	46.00	-6.53

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Test mode:	Transmitting	Horizontal
------------	--------------	------------



Condition: FCC PART 15C 3m Horizontal
Job No. : 4683CR
Test Mode: b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	81.50	7.12	8.74	32.64	44.21	27.43	40.00	-12.57
2	152.13	7.52	13.90	32.61	38.24	27.05	43.50	-16.45
3	180.02	7.60	12.44	32.60	39.38	26.82	43.50	-16.68
4	459.11	8.55	16.50	32.57	44.71	37.19	46.00	-8.81
5	658.84	9.15	19.67	32.61	42.02	38.23	46.00	-7.77
6 pp	866.09	9.63	22.05	32.04	40.46	40.10	46.00	-5.90

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Transmitter Emission above 1GHz									
Test mode:		GFSK		Test channel:		Lowest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3705.664	6.85	33.08	38.83	46.78	47.88	74.00	-26.12	Vertical	
4804.000	6.42	34.70	39.24	58.17	60.05	74.00	-13.95	Vertical	
6016.949	8.08	36.28	39.18	45.43	50.61	74.00	-23.39	Vertical	
7206.000	8.92	35.63	39.07	46.21	51.69	74.00	-22.31	Vertical	
9648.000	9.97	37.45	37.91	42.96	52.47	74.00	-21.53	Vertical	
11080.430	10.30	38.11	38.26	43.44	53.59	74.00	-20.41	Vertical	
3770.567	6.81	33.13	38.86	46.11	47.19	74.00	-26.81	Horizontal	
4804.000	6.42	34.70	39.24	58.01	59.89	74.00	-14.11	Horizontal	
5921.940	7.96	36.15	39.19	45.32	50.24	74.00	-23.76	Horizontal	
7206.000	8.92	35.63	39.07	48.69	54.17	74.00	-19.83	Horizontal	
9608.000	9.99	37.33	37.93	44.06	53.45	74.00	-20.55	Horizontal	
11422.280	10.37	38.17	38.43	44.39	54.50	74.00	-19.50	Horizontal	

Average value= Peak value+20 log(Duty cycle)

Test mode:		GFSK		Test channel:		Lowest		Remark:	Average
Frequency (MHz)	Average Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
3705.664	-23.90	23.98	54.00	-30.02	Vertical				
4804.000	-23.90	36.15	54.00	-17.85	Vertical				
6016.949	-23.90	26.71	54.00	-27.29	Vertical				
7206.000	-23.90	27.79	54.00	-26.21	Vertical				
9648.000	-23.90	28.57	54.00	-25.43	Vertical				
11080.430	-23.90	29.69	54.00	-24.31	Vertical				
3770.567	-23.90	23.29	54.00	-30.71	Horizontal				
4804.000	-23.90	35.99	54.00	-18.01	Horizontal				
5921.940	-23.90	26.34	54.00	-27.66	Horizontal				
7206.000	-23.90	30.27	54.00	-23.73	Horizontal				
9608.000	-23.90	29.55	54.00	-24.45	Horizontal				
11422.280	-23.90	30.60	54.00	-23.40	Horizontal				

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Test mode:		GFSK		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
3737.975	6.83	33.10	38.84	46.15	47.24	74.00	-26.76	Vertical		
4880.000	6.58	34.78	39.26	52.31	54.41	74.00	-19.59	Vertical		
6157.871	8.04	36.13	39.17	46.61	51.61	74.00	-22.39	Vertical		
7320.000	9.07	35.51	39.06	46.49	52.01	74.00	-21.99	Vertical		
9760.000	9.90	37.80	37.84	46.40	56.26	74.00	-17.74	Vertical		
11405.760	10.37	38.15	38.42	44.09	54.19	74.00	-19.81	Vertical		
3781.495	6.81	33.14	38.86	46.75	47.84	74.00	-26.16	Horizontal		
4880.000	6.58	34.78	39.26	49.88	51.98	74.00	-22.02	Horizontal		
6078.201	8.06	36.21	39.18	46.34	51.43	74.00	-22.57	Horizontal		
7320.000	9.07	35.51	39.06	51.58	57.10	74.00	-16.90	Horizontal		
9760.000	9.90	37.80	37.84	52.66	62.52	74.00	-11.48	Horizontal		
11877.340	10.56	38.58	38.64	43.37	53.87	74.00	-20.13	Horizontal		

Average value= Peak value+20 log(Duty cycle)

Test mode:		GFSK		Test channel:		Lowest		Remark:		Average
Frequency (MHz)	Average Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
3737.975	-23.90	23.34	54.00	-30.66	Vertical					
4880.000	-23.90	30.51	54.00	-23.49	Vertical					
6157.871	-23.90	27.71	54.00	-26.29	Vertical					
7320.000	-23.90	28.11	54.00	-25.89	Vertical					
9760.000	-23.90	32.36	54.00	-21.64	Vertical					
11405.760	-23.90	30.29	54.00	-23.71	Vertical					
3781.495	-23.90	23.94	54.00	-30.06	Horizontal					
4880.000	-23.90	28.08	54.00	-25.92	Horizontal					
6078.201	-23.90	27.53	54.00	-26.47	Horizontal					
7320.000	-23.90	33.20	54.00	-20.80	Horizontal					
9760.000	-23.90	38.62	54.00	-15.38	Horizontal					
11877.340	-23.90	29.97	54.00	-24.03	Horizontal					

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Test mode:		GFSK		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
3705.664	6.85	33.08	38.83	45.54	46.64	74.00	-27.36	Vertical		
4960.000	6.76	34.86	39.29	46.08	48.41	74.00	-25.59	Vertical		
6016.949	8.08	36.28	39.18	46.70	51.88	74.00	-22.12	Vertical		
7440.000	9.23	35.43	39.05	47.57	53.18	74.00	-20.82	Vertical		
9920.000	9.81	38.27	37.75	45.80	56.13	74.00	-17.87	Vertical		
12120.390	10.79	38.85	38.80	44.84	55.68	74.00	-18.32	Vertical		
3579.190	6.92	32.98	38.78	45.59	46.71	74.00	-27.29	Horizontal		
4960.000	6.76	34.86	39.29	46.48	48.81	74.00	-25.19	Horizontal		
5930.516	7.97	36.17	39.19	46.45	51.40	74.00	-22.60	Horizontal		
7440.000	9.23	35.43	39.05	51.43	57.04	74.00	-16.96	Horizontal		
9920.000	9.81	38.27	37.75	48.75	59.08	74.00	-14.92	Horizontal		
11622.330	10.44	38.32	38.52	44.88	55.12	74.00	-18.88	Horizontal		

Average value= Peak value+20 log(Duty cycle)

Test mode:		GFSK		Test channel:		Lowest		Remark:		Average
Frequency (MHz)	Average Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
3705.664	-23.90	22.74	54.00	-31.26	Vertical					
4960.000	-23.90	24.51	54.00	-29.49	Vertical					
6016.949	-23.90	27.98	54.00	-26.02	Vertical					
7440.000	-23.90	29.28	54.00	-24.72	Vertical					
9920.000	-23.90	32.23	54.00	-21.77	Vertical					
12120.390	-23.90	31.78	54.00	-22.22	Vertical					
3579.190	-23.90	22.81	54.00	-31.19	Horizontal					
4960.000	-23.90	24.91	54.00	-29.09	Horizontal					
5930.516	-23.90	27.50	54.00	-26.50	Horizontal					
7440.000	-23.90	33.14	54.00	-20.86	Horizontal					
9920.000	-23.90	35.18	54.00	-18.82	Horizontal					
11622.330	-23.90	31.22	54.00	-22.78	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
- Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. 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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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2009		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

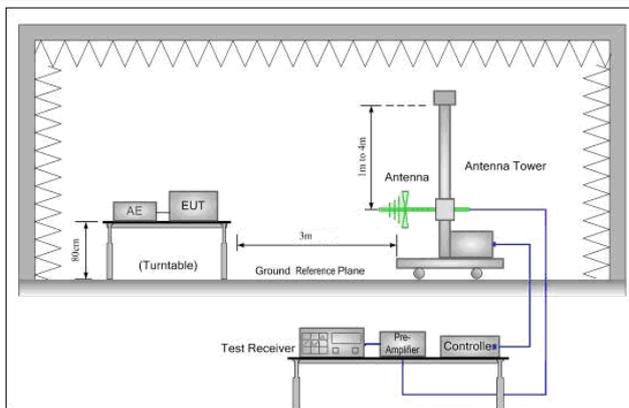


Figure 1. 30MHz to 1GHz

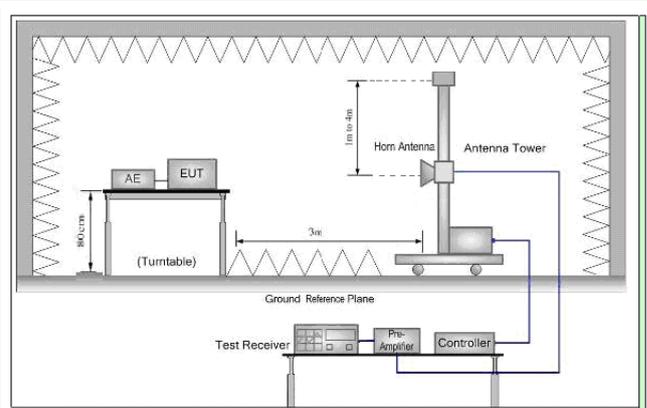


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest
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	channel g. Test the EUT in the lowest channel , the Highest channel h. 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. i. Repeat above procedures until all frequencies measured was complete.
Final Test Mode:	transmitting with GFSK modulation
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



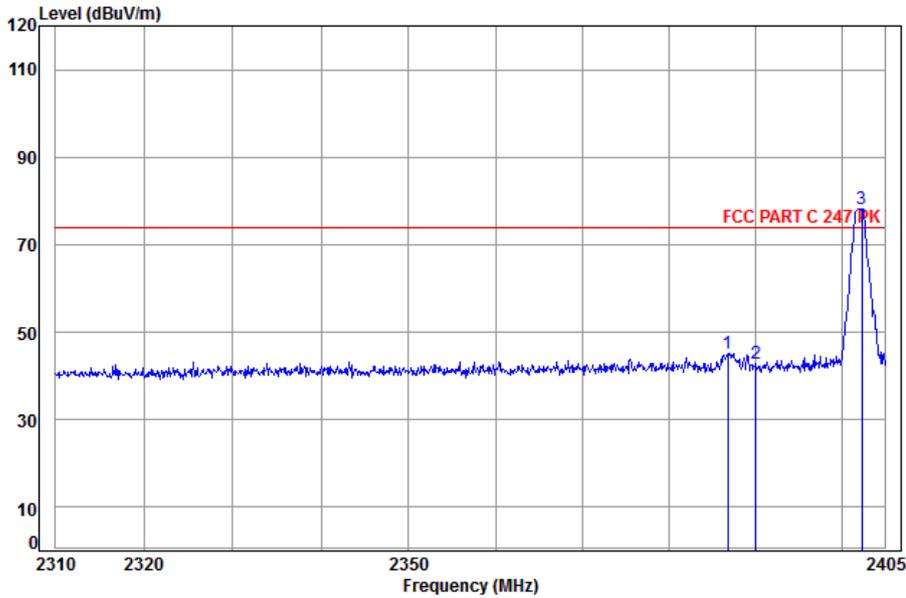
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Test plot as follows:

Restricted bands around fundamental frequency						
Test mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Vertical

Data: 122



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 4683CR
 Mode: : 2402 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.75	4.90	32.32	38.46	46.45	45.21	74.00	-28.79
2	2390.00	4.90	32.35	38.46	44.03	42.82	74.00	-31.18
3 pp	2402.38	4.92	32.41	38.46	79.39	78.26	74.00	4.26

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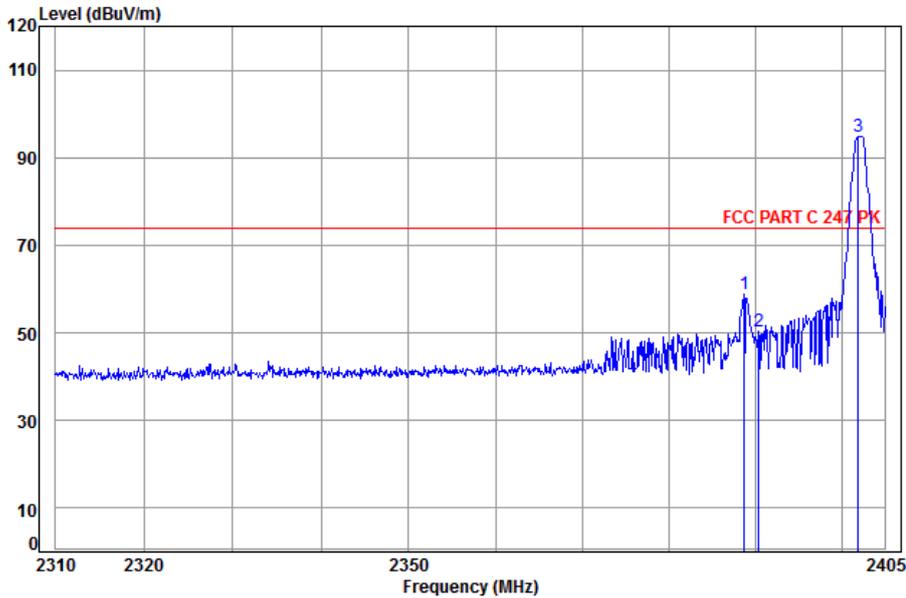
SGS-CSTC Standards Technical Services Ltd. Shenzhen Branch

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Test mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 124



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 4683CR
 Mode: : 2402 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.68	4.90	32.34	38.46	60.20	58.98	74.00	-15.02
2	2390.31	4.90	32.35	38.46	51.50	50.29	74.00	-23.71
3 pp	2401.90	4.92	32.41	38.46	95.91	94.78	74.00	20.78

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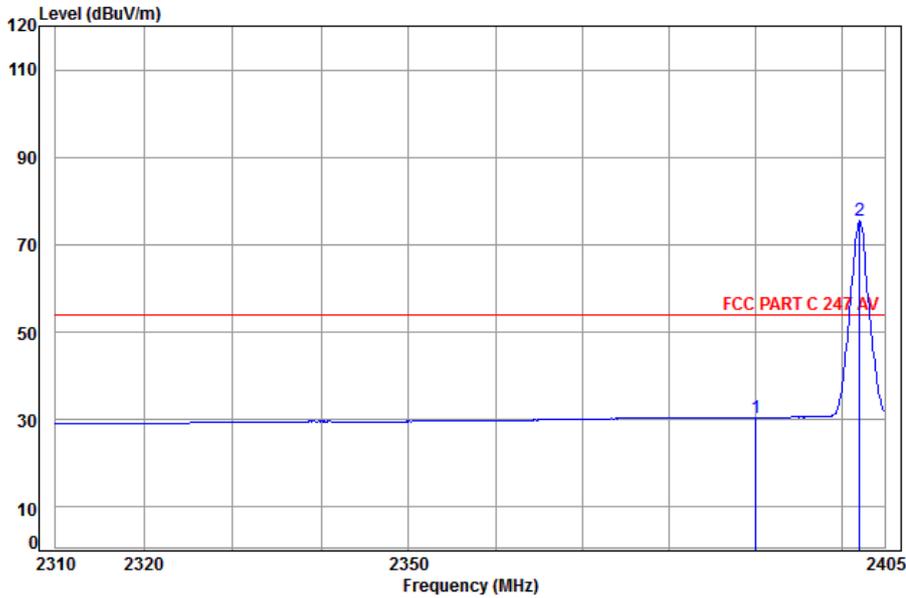
SGS-CSTC Standards Technical Services Ltd. Shenzhen Branch

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Test mode:	GFSK	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 123



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 4683CR
 Mode: : 2402 Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	2390.00	4.90	32.35	38.46	31.69	30.48	54.00	-23.52
2	pp 2402.09	4.92	32.41	38.46	76.63	75.50	54.00	21.50

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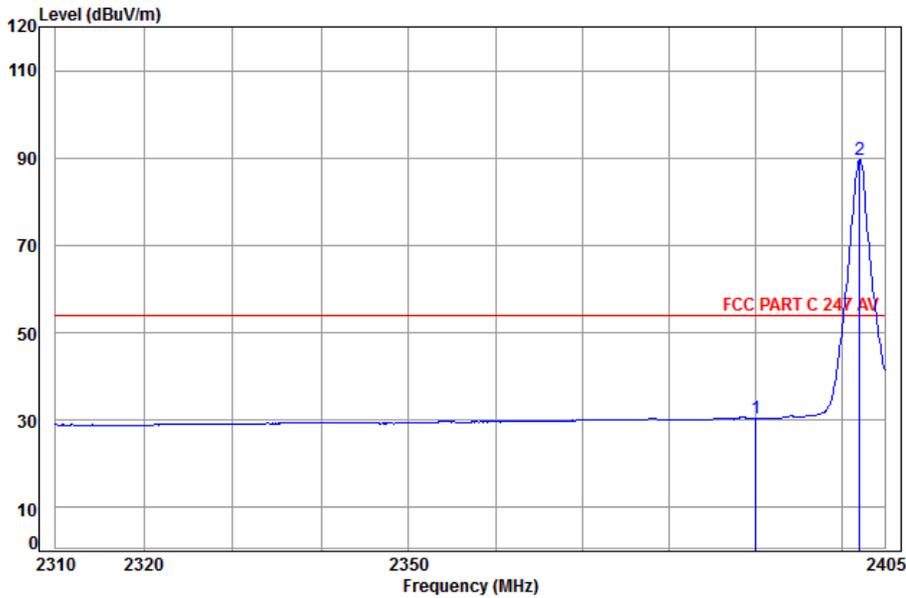
SGS-CSTC Standards Technical Services Ltd. Shenzhen Branch

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Test mode:	GFSK	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 125



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 4683CR
 Mode: : 2402 Band edge

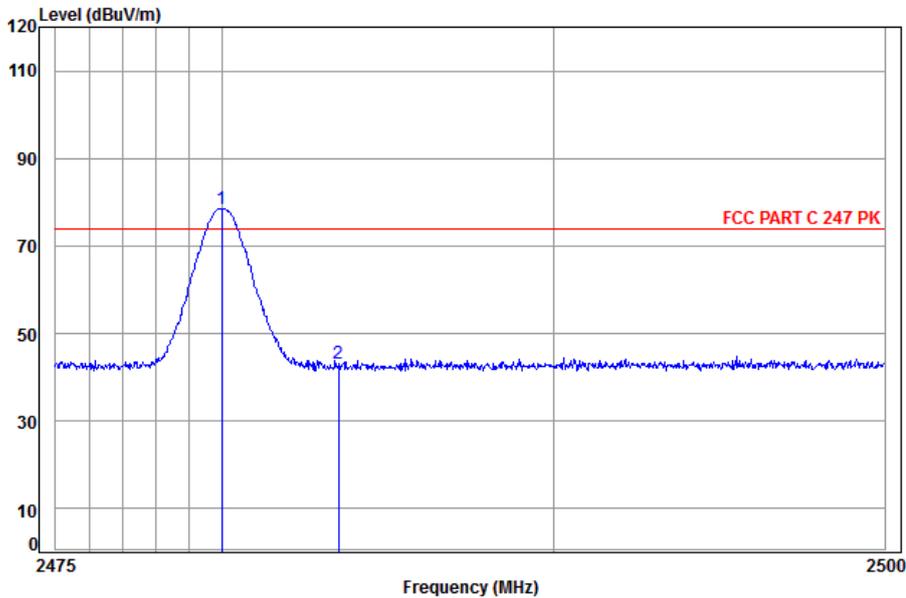
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	31.72	30.51	54.00	-23.49
2 pp	2402.09	4.92	32.41	38.46	90.83	89.70	54.00	35.70

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Test mode:	GFSK	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 120



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 4683CR
 Mode: : 2480 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2479.98	5.02	32.44	38.47	79.49	78.48	74.00	4.48
2	2483.50	5.03	32.44	38.47	44.05	43.05	74.00	-30.95

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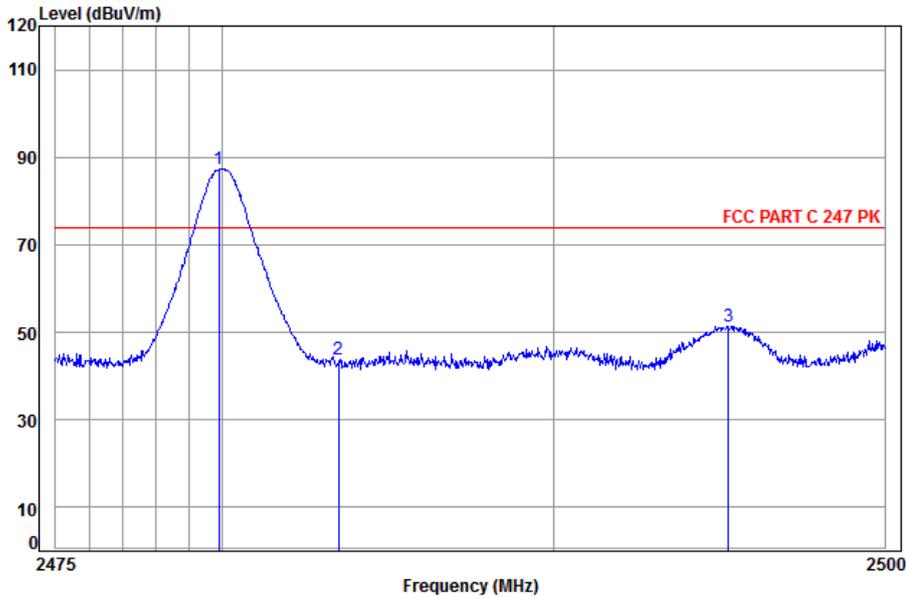
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Test mode:	GFSK	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 118



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 4683CR
 Mode: : 2480 Band edge

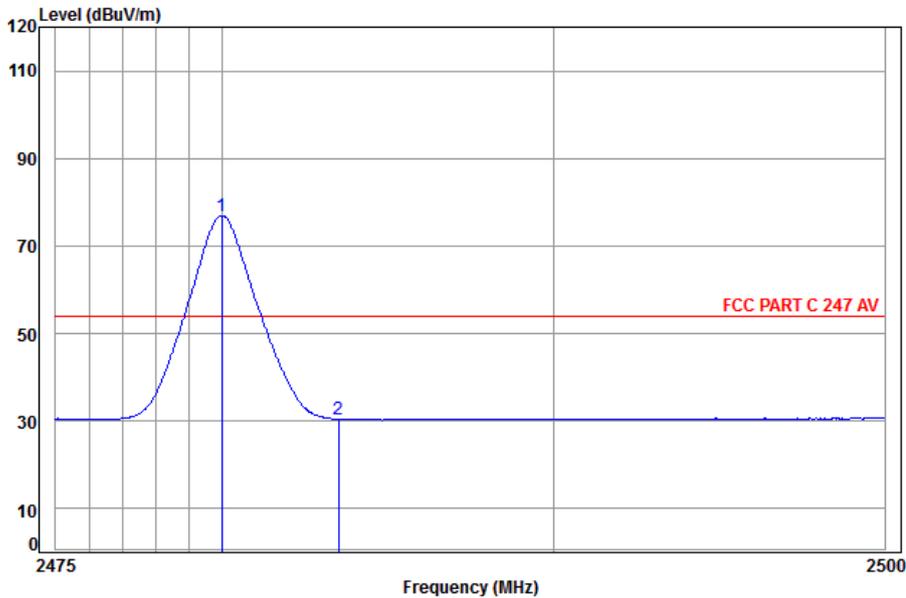
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2479.91	5.02	32.44	38.47	88.23	74.00	13.22
2	2483.50	5.03	32.44	38.47	44.82	74.00	-30.18
3	2495.28	5.04	32.44	38.47	52.47	74.00	-22.52

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Test mode:	GFSK	Test channel:	Highest	Remark:	Average	Vertical
------------	------	---------------	---------	---------	---------	----------

Data: 121



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 4683CR
 Mode: : 2480 Band edge

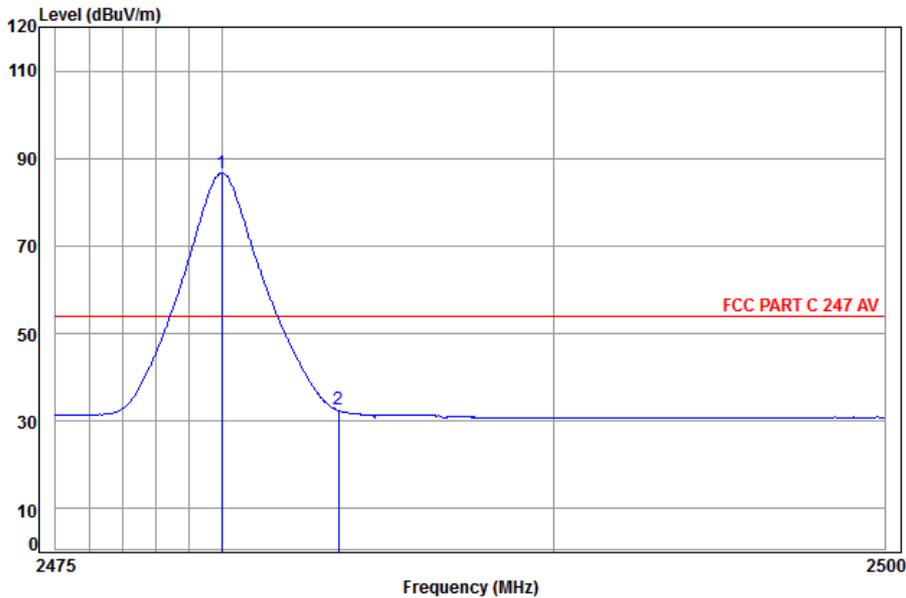
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2479.98	5.02	32.44	38.47	77.98	76.97	54.00	22.97
2	2483.50	5.03	32.44	38.47	31.49	30.49	54.00	-23.51

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Test mode:	GFSK	Test channel:	Highest	Remark:	Average	Horizontal
------------	------	---------------	---------	---------	---------	------------

Data: 119



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 4683CR
 Mode: : 2480 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2479.98	5.02	32.44	38.47	87.63	86.62	54.00	32.62
2	2483.50	5.03	32.44	38.47	33.61	32.61	54.00	-21.39

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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7 Photographs - EUT Test Setup

Test model No.: INF-8040889

7.1 Conducted Emission



7.2 Radiated Emission



7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A – Photographs for EUT Constructional Details for SZEM1507004683CR

