

# FCC Part 15C Measurement and Test Report

For

**Shenzhen Mercury Innovations Science and Technology Ltd**

**FCC ID: 2AF7A-X12**

<b>FCC Rule(s):</b>	<u>FCC Part 15.249</u>	
<b>Product Description:</b>	<u>Wireless Sport Earbuds</u>	
<b>Tested Model:</b>	<u>X12</u>	
<b>Report No.:</b>	<u>BSL191213540501RF</u>	
<b>Tested Date:</b>	<u>Dec. 24-27, 2019</u>	
<b>Issued Date:</b>	<u>Dec. 27, 2019</u>	
<b>Tested By:</b>	<u>Cindy Zheng / Engineer</u>	<i>Cindy zheng</i>
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<b>Prepared By:</b>	<b>BSL Testing Co.,LTD.</b> No. 24, ZH Park, Nantou Nanshan District, Shenzhen, Guangdong, China Tel: 400-882-9628 Fax: 86- 755-26508703	

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## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant:	Shenzhen Mercury Innovations Science and Technology Ltd
Address of applicant:	4th Floor ,Building B ,TongFuYu Industrial Park,No.32 Hangkong Road, Bao'an district ,Shenzhen Cn
Manufacturer:	Shenzhen See Me Here Electronic Co.,Ltd
Address of manufacturer:	1st Floor ,2nd Floor ,3rd Floor ,5th Floor ,Building B ,TongFuYu Industrial Park, No.32 Hangkong Road, Sanwei Community ,Hangcheng Street ,Bao'an district ,Shenzhen Cn

General Description of EUT	
Product Name:	Wireless Sport Earbuds
Trade Name:	
Model No.:	X12
Adding Model(s):	N/A
Rated Voltage:	DC 5V
Power Adapter Model:	N/A
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	2402-2480MHz
Max. Field Strength:	89.06dBuV/m@3m
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK
Quantity of Channels:	79
Channel Dec.aration:	1MHz
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Lowest Internal Frequency of EUT:	24MHz

## 1.2 Test Standards

The following report is prepared on behalf of the Shenzhen Mercury Innovations Science and Technology Ltd in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

## 1.4 Test Facility

BSL Testing Co.,LTD.

NO. 24, ZH Park, Nantou, Shenzhen, 518000 China

Designation Number : CN1217

Test Firm Registration Number: 866035

Tel: 86- 755-26508703

Fax: 86- 755-26508703

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	2402MHz
TM2	Middle Channel	2442MHz
TM3	High Channel	2480MHz

Modulation Configure			
Modulation	Packet	Packet Type	Packet Size
GFSK	DH1	4	27
	DH3	11	183
	DH5	15	339
Pi/4 DQPSK	2DH1	20	54
	2DH3	26	367
	2DH5	30	679
8DPSK	3DH1	24	83
	3DH3	27	552
	3DH5	31	1021
Normal mode: the Bluetooth has been tested on the modulation of GFSK, (Pi/4)DQPSK and 8DPSK, compliance test and record the worst case.			

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	TOSHIBA	L700-C53B	/
USB	ESR	S01	19682904994

EUT Exercise Software

The test software: 'fcc\_tool' was used in test. The worst condition (maximum power) was configured by default setting.

## 1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

**1.7 Test Equipment List and Details**

<b>Dscription</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal Date</b>	<b>Due. Date</b>
Communication Tester	Rohde & Schwarz	CMW500	100358	2019-11-08	2020-11-07
Spectrum Analyzer	R&S	FSP40	100550	2019-10-08	2020-10-07
Test Receiver	R&S	ESCI7	US47140102	2019-10-08	2020-10-07
Signal Generator	HP	83630B	3844A01028	2019-10-08	2020-10-07
Test Receiver	R&S	ESPI-3	100180	2019-10-08	2020-10-07
Amplifier	Agilent	8449B	4035A00116	2019-10-08	2020-10-07
Amplifier	HP	8447E	2945A02770	2019-10-08	2020-10-07
Signal Generator	IFR	2023A	202307/242	2019-10-08	2020-10-07
Broadband Antenna	SCHAFFNER	2774	2774	2019-10-21	2020-10-20
Biconical and log periodic antennas	ELECTRO-METRICS	EM-6917B-1	171	2019-10-21	2020-10-20
Horn Antenna	R&S	HF906	100253	2019-10-21	2020-10-20
Horn Antenna	EM	EM-6961	6462	2019-10-21	2020-10-20
LISN	R&S	ESH3-Z5	100196	2019-10-08	2020-10-07
LISN	COM-POWER	LI-115	02027	2019-10-08	2020-10-07
3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6 (W)* 6 (H)	BSL086	2019-10-08	2020-10-07
Horn Antenna	Schwarzbeck	BBHA9170	00814	2019-10-21	2020-10-20
EZ	EMC test software	/	/	/	/

## 2. SUMMARY OF TEST RESULTS

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<b>FCC Rules</b>	<b>Description of Test Item</b>	<b>Result</b>
§ 15.203	Antenna Requirement	PASS
§15.205	Restricted Band of Operation	PASS
§ 15.207(a)	Conducted Emission	PASS
§ 15.209(a)(f)	Radiated Spurious Emissions	PASS
§15.249(a)	Field Strength of Emissions	PASS
§15.249(d)	Out of Band Emission	PASS
§15.215 (c)	Emission Bandwidth	PASS

Note: PASS: applicable, N/A: not applicable.



### **3. Antenna Requirements**

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#### **3.1 Standard Applicable**

According to FCC Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Test Result**

This product has a PCB antenna, fulfill the requirement of this section.

## 4. Radiated Emissions

### 4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

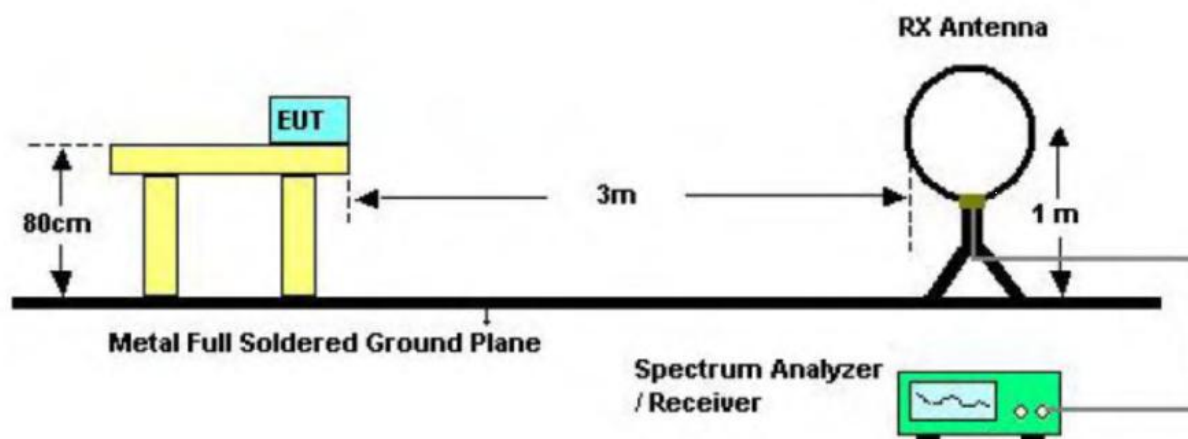
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

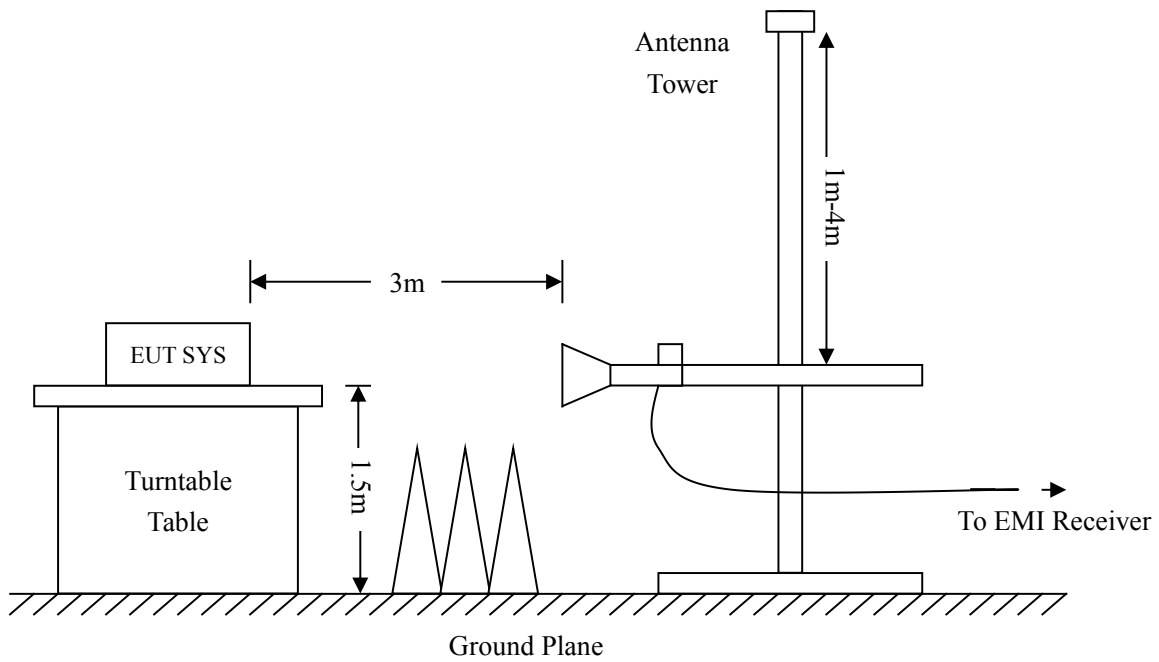
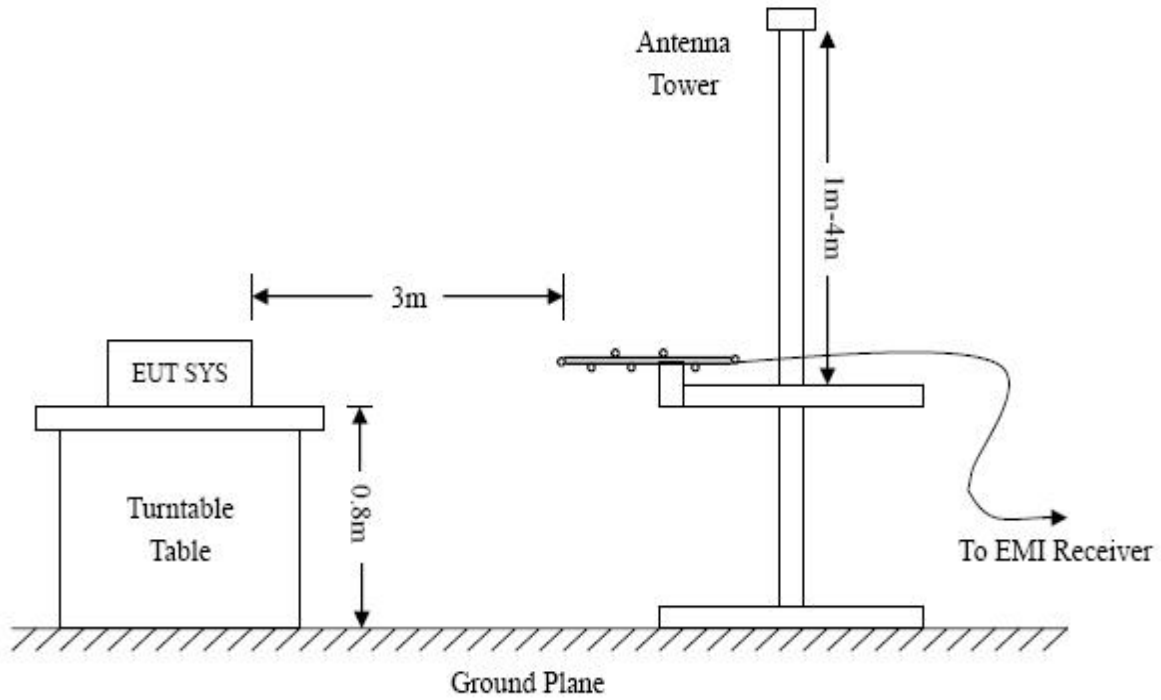
### 4.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.





Frequency :9kHz-30MHz  
 RBW=10KHz,  
 VBW =30KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak

Frequency :30MHz-1GHz  
 RBW=120KHz,  
 VBW=300KHz  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, QP

Frequency :Above 1GHz  
 RBW=1MHz,  
 VBW=3MHz(Peak), 10Hz(AV)  
 Sweep time= Auto  
 Trace = max hold  
 Detector function = peak, AV

### 4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

### 4.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

### 4.5 Summary of Test Results/Plots

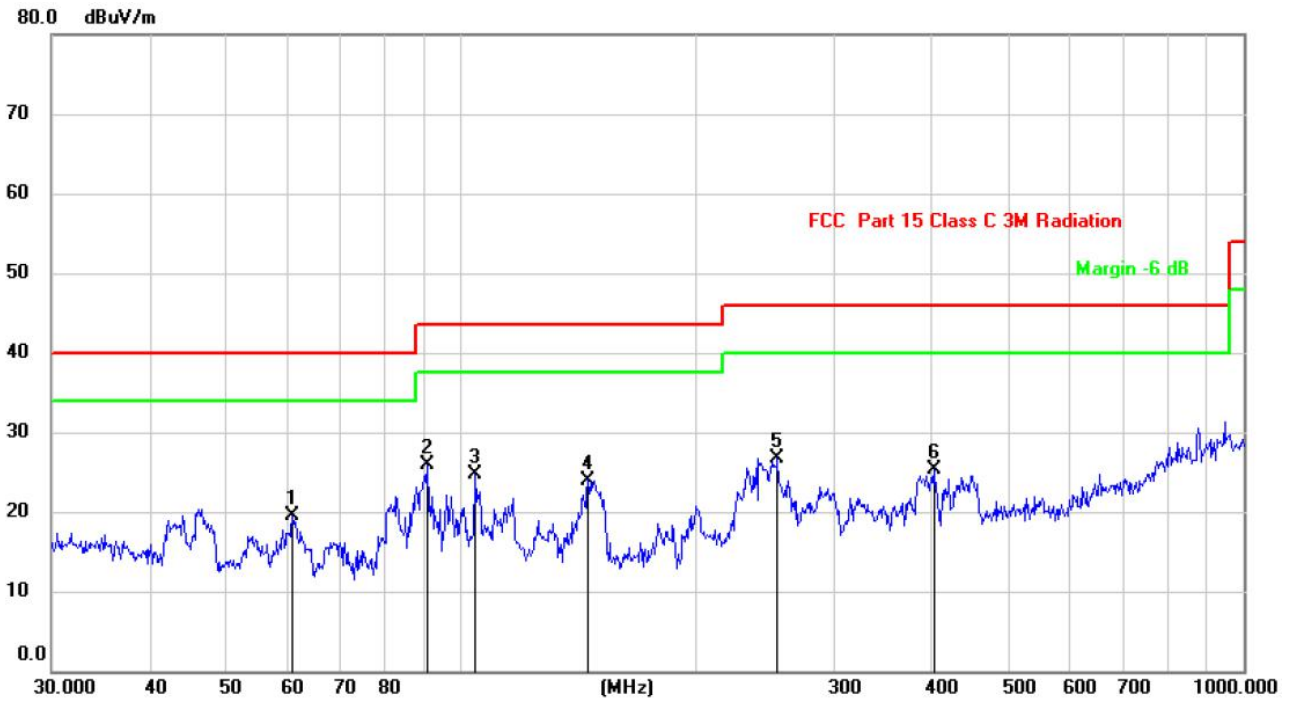
According to the data below, the [FCC Part 15.205](#), [15.209](#) and [15.249](#) standards, and had the worst cases.

*Note:*

1. *Worst-case radiated emission below 1GHz is GFSK (CH High) mode.*
2. *Worst-case radiated emission above 1GHz is (Pi/4)DQPSK (CH Low, Middle, High) mode.*

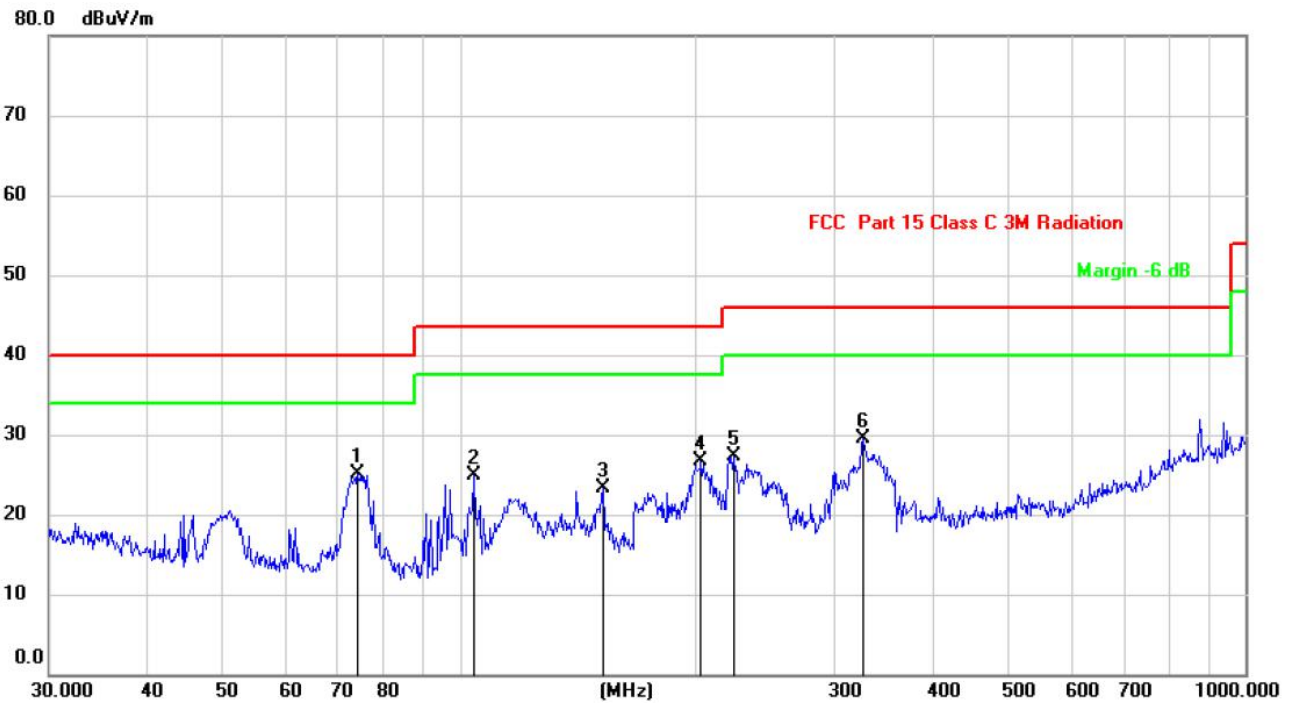
**Plot of Radiated Emissions Test Data (30MHz to 1GHz): GFSK (CH High) mode:**

Test Specification: *Horizontal*



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		60.9176	19.01	0.44	19.45	40.00	-20.55	QP	
2	*	90.5374	26.34	-0.46	25.88	43.50	-17.62	QP	
3		104.1701	23.86	0.76	24.62	43.50	-18.88	QP	
4		145.3505	22.61	1.39	24.00	43.50	-19.50	QP	
5		253.8367	24.33	2.44	26.77	46.00	-19.23	QP	
6		401.8385	18.70	6.68	25.38	46.00	-20.62	QP	

Test Specification: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	74.1350	25.23	-0.12	25.11	40.00	-14.89	QP	
2		104.1701	24.20	0.76	24.96	43.50	-18.54	QP	
3		152.1297	22.20	1.07	23.27	43.50	-20.23	QP	
4		202.8103	25.14	1.50	26.64	43.50	-16.86	QP	
5		222.9501	25.85	1.50	27.35	46.00	-18.65	QP	
6		325.5957	24.37	5.20	29.57	46.00	-16.43	QP	

*Spurious Emissions Above 1GHz :(Pi/4)DQPSK (CH Low, Middle, High) mode.*

Frequency	Rearding Level	Factor	Result	Limit	Margin	Polar	Detector
(MHz)	(dB $\mu$ V)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2402MHz							
2402	83.44	5.62	89.06	114	-24.94	H	PK
2402	73.71	5.62	79.33	94	-14.67	H	AV
4804	51.96	4.62	56.58	74	-17.42	H	PK
4804	42.43	4.62	47.05	54	-6.95	H	AV
7206	42.48	3.51	45.99	74	-28.01	H	PK
7206	36.52	3.51	40.03	54	-13.97	H	AV
2402	80.79	5.62	86.41	114	-27.59	V	PK
2402	71.12	5.62	76.74	94	-17.26	V	AV
4804	52.19	4.62	56.81	74	-17.19	V	PK
4804	38.49	4.62	43.11	54	-10.89	V	AV
7206	58.54	3.51	62.05	74	-11.95	V	PK
7206	35.60	3.51	39.11	54	-14.89	V	AV
Middle Channel-2442MHz							
2442	81.08	4.52	85.6	114	-28.4	H	PK
2442	71.54	4.52	76.06	94	-17.94	H	AV
4884	52.31	3.65	55.96	74	-18.04	H	PK
4884	41.47	3.65	45.12	54	-8.88	H	AV
7326	47.52	3.48	51.00	74	-23.00	H	PK
7326	43.59	3.48	47.07	54	-6.93	H	AV
2442	82.08	4.52	86.6	114	-27.4	V	PK
2442	73.23	4.52	77.75	94	-16.25	V	AV
4884	52.54	3.65	56.19	74	-17.81	V	PK
4884	37.17	3.65	40.82	54	-13.18	V	AV
7326	54.23	3.48	57.71	74	-16.29	V	PK
7326	37.37	3.48	40.85	54	-13.15	V	AV

Frequency	Rearding Level	Factor	Result	Limit	Margin	Polar	Detector
(MHz)	(dB $\mu$ V)	(dB/m)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	H/V	
Low Channel-2480MHz							
2480	80.39	3.52	83.91	114	-30.09	H	PK
2480	72.57	3.52	76.09	94	-17.91	H	AV
4960	55.70	2.51	58.21	74	-15.79	H	PK
4960	38.43	2.51	40.94	54	-13.06	H	AV
7440	47.54	3.10	50.64	74	-23.36	H	PK
7440	41.09	3.10	44.19	54	-9.81	H	AV
2480	80.26	3.52	83.78	114	-30.22	V	PK
2480	71.04	3.52	74.56	94	-19.44	V	AV
4960	48.32	2.51	50.83	74	-23.17	V	PK
4960	41.57	2.51	44.08	54	-9.92	V	AV
7440	45.19	3.10	48.29	74	-25.71	V	PK
7440	36.33	3.10	39.43	54	-14.57	V	AV

Note:

1.  $Result = Reading + Correct Factor$ .

2.  $Correct Factor = Ant. Factor + Cable Loss - Ampl. Gain$ .

Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5<sup>th</sup> Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz..



## 5. Out of Band Emissions

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### 5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### 5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

### 5.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

### 5.4 Summary of Test Results/Plots

Note: We pre-scan all mode, the worst data is DH1, 2DH1, 3DH1.

Modulation	Frequency	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
GFSK	2390.00	46.31	2.36	48.67	74	-25.33	Peak	PASS
	2390.00	33.65	2.36	36.01	54	-17.99	AV	PASS
	2400.00	45.47	3.45	48.92	74	-25.08	Peak	PASS
	2400.00	37.52	3.45	40.97	54	-13.03	AV	PASS
	2483.50	47.49	2.51	50.00	74	-24.00	Peak	PASS
	2483.50	38.24	2.51	40.75	54	-13.25	AV	PASS
	2488.25	48.21	2.76	50.97	74	-23.03	Peak	PASS
	2488.25	37.38	2.76	40.14	54	-13.86	AV	PASS
Pi/4 DQPSK	2390.00	47.64	2.36	50.00	74	-24.00	Peak	PASS
	2390.00	34.50	2.36	36.86	54	-17.14	AV	PASS
	2400.00	48.16	3.45	51.61	74	-22.39	Peak	PASS
	2400.00	35.13	3.45	38.58	54	-15.42	AV	PASS
	2483.50	47.44	2.51	49.95	74	-24.05	Peak	PASS
	2483.50	37.52	2.51	40.03	54	-13.97	AV	PASS
	2486.36	49.48	2.73	52.21	74	-21.79	Peak	PASS
	2486.36	37.54	2.73	40.27	54	-13.73	AV	PASS
8DPSK	2390.00	48.36	2.36	50.72	74	-23.28	Peak	PASS
	2390.00	38.08	2.36	40.44	54	-13.56	AV	PASS
	2400.00	46.90	3.45	50.35	74	-23.65	Peak	PASS
	2400.00	35.54	3.45	38.99	54	-15.01	AV	PASS
	2483.50	49.73	2.51	52.24	74	-21.76	Peak	PASS
	2483.50	39.63	2.51	42.14	54	-11.86	AV	PASS
	2496.42	51.24	2.94	54.18	74	-19.82	Peak	PASS
	2496.42	36.07	2.94	39.01	54	-14.99	AV	PASS

## 6. Emission Bandwidth

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### 6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### 6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 3MHz, centered on a transmitting channel

RBW  $\geq$ 1% 20dB Bandwidth, VBW  $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

### 6.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

## 6.4 Summary of Test Results/Plots

Worst mode: GFSK (DH1)

<b>Channel</b>	<b>Frequency MHz</b>	<b>20dB Bandwidth kHz</b>
Low Channel	2402	822
Middle Channel	2442	810
High Channel	2480	816

Worst mode: Pi/4 QDPSK (2DH1)

<b>Channel</b>	<b>Frequency MHz</b>	<b>20dB Bandwidth kHz</b>
Low Channel	2402	1122
Middle Channel	2442	1122
High Channel	2480	1122

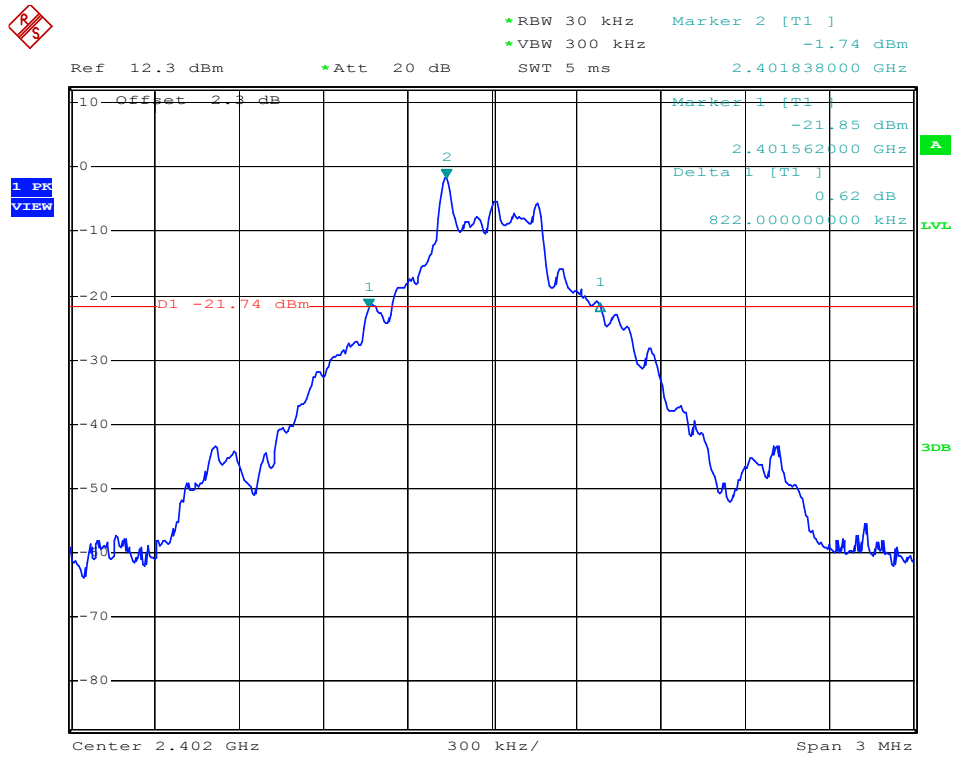
Worst mode: 8DPSK (3DH1)

<b>Channel</b>	<b>Frequency MHz</b>	<b>20dB Bandwidth kHz</b>
Low Channel	2402	1170
Middle Channel	2442	1170
High Channel	2480	1170

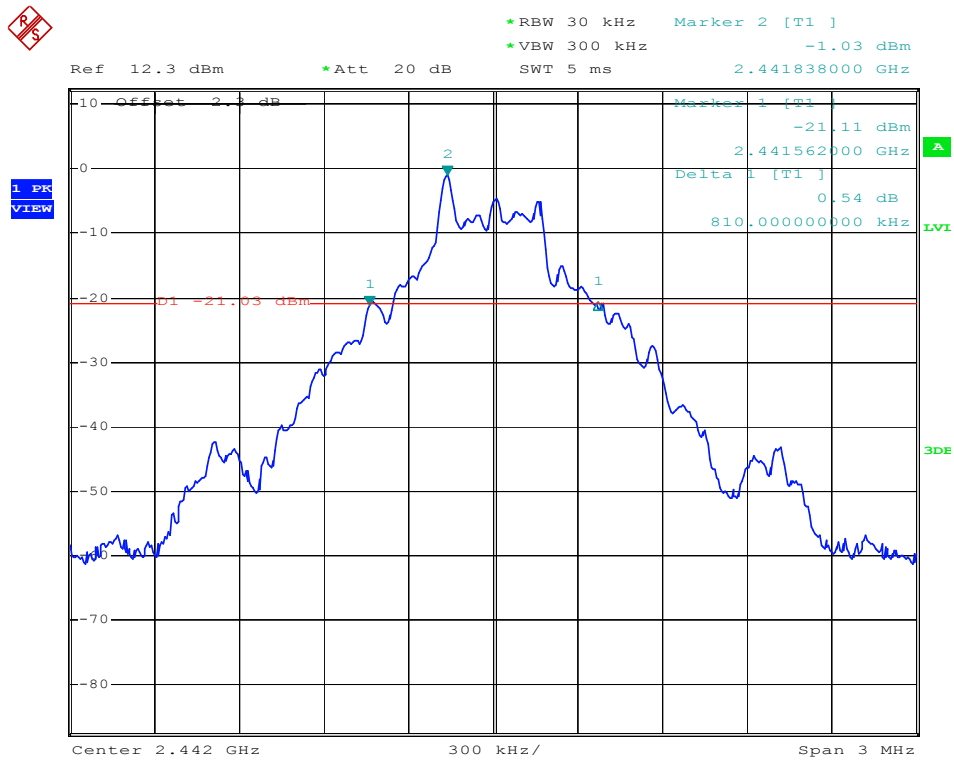
Please refer to the following test plots

Worst mode: GFSK (DH1)

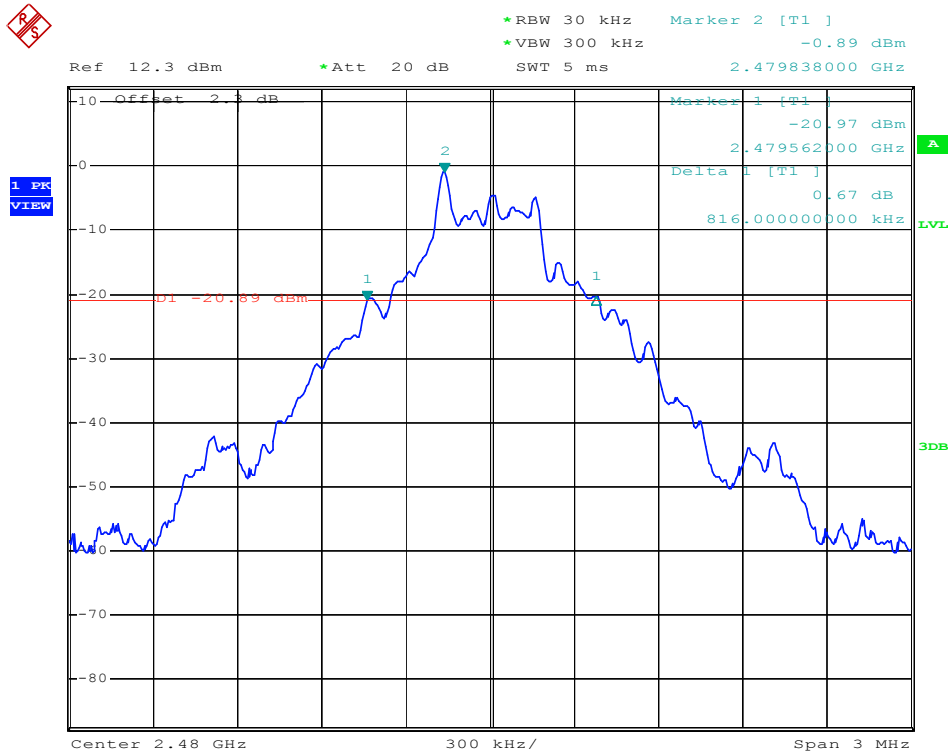
Low Channel:



Middle Channel:

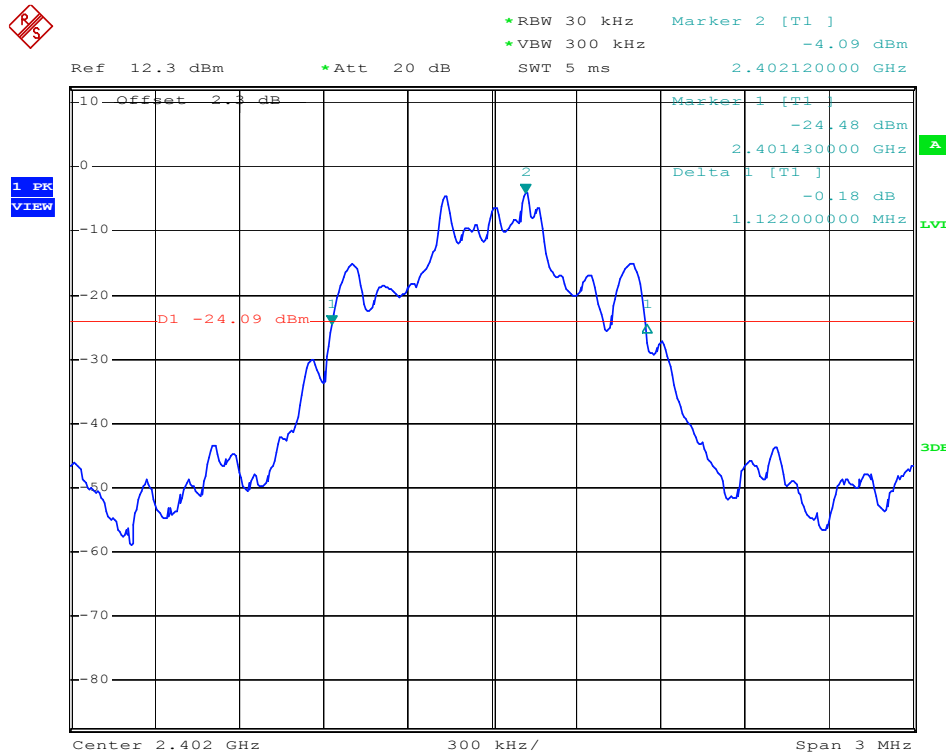


High Channel:

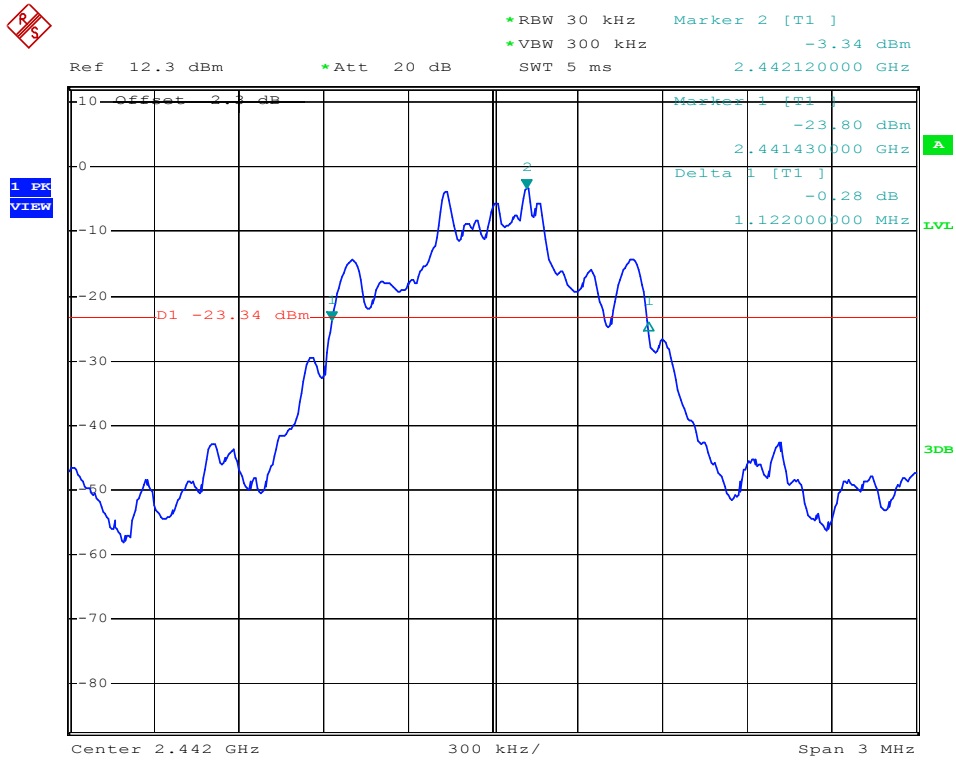


Worst mode: Pi/4 QDPSK (2DH1)

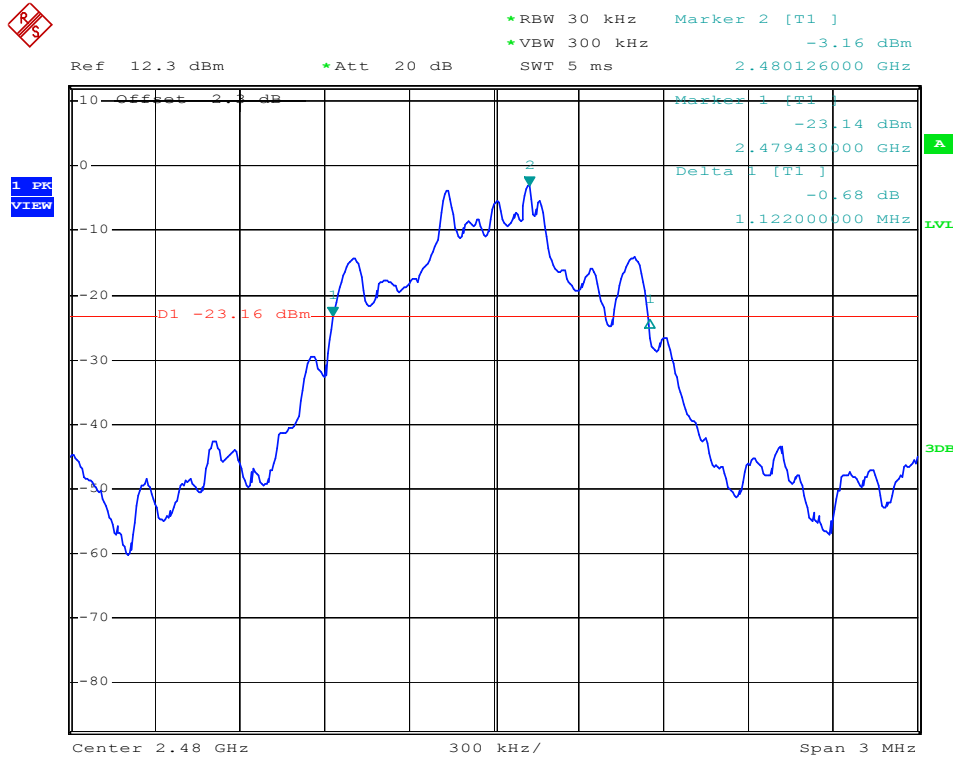
Low Channel:



Middle Channel:

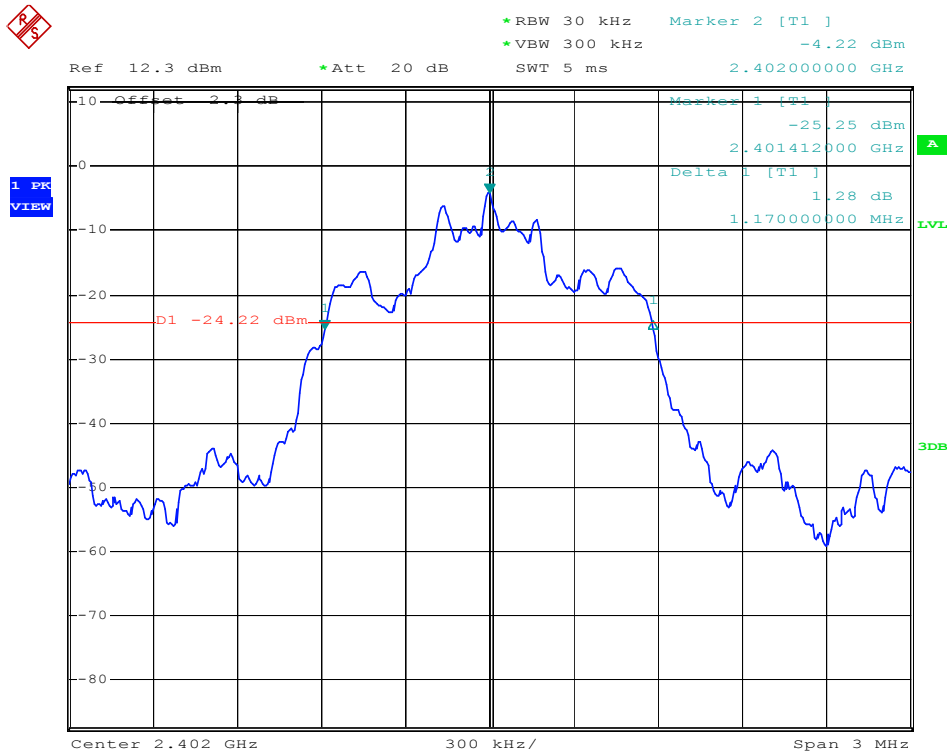


High Channel:

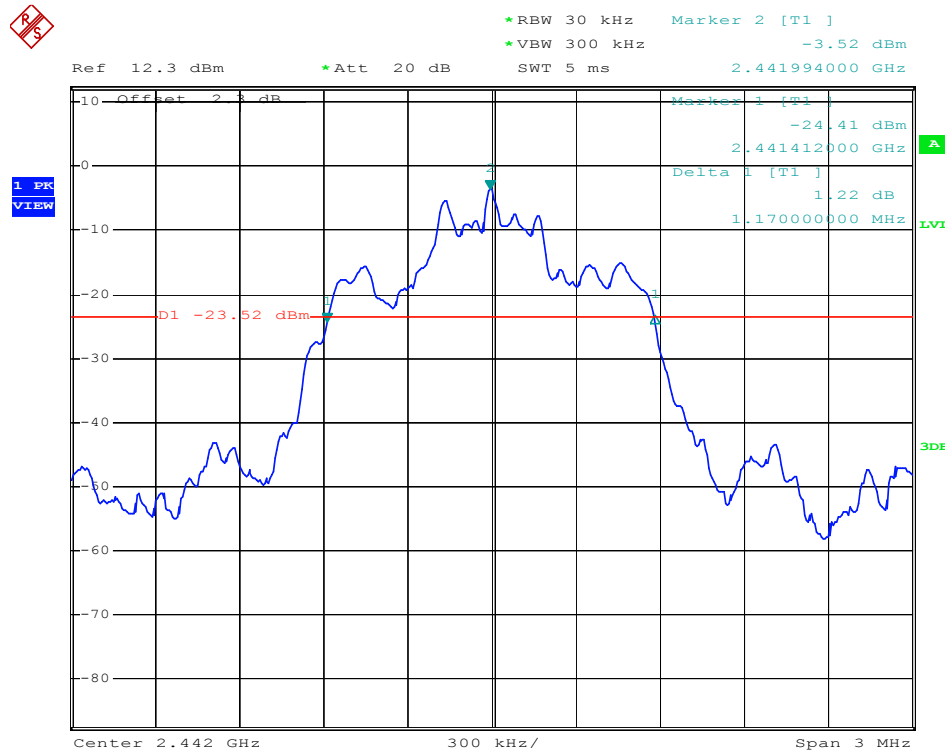


Worst mode: 8DPSK (3DH1)

Low Channel:

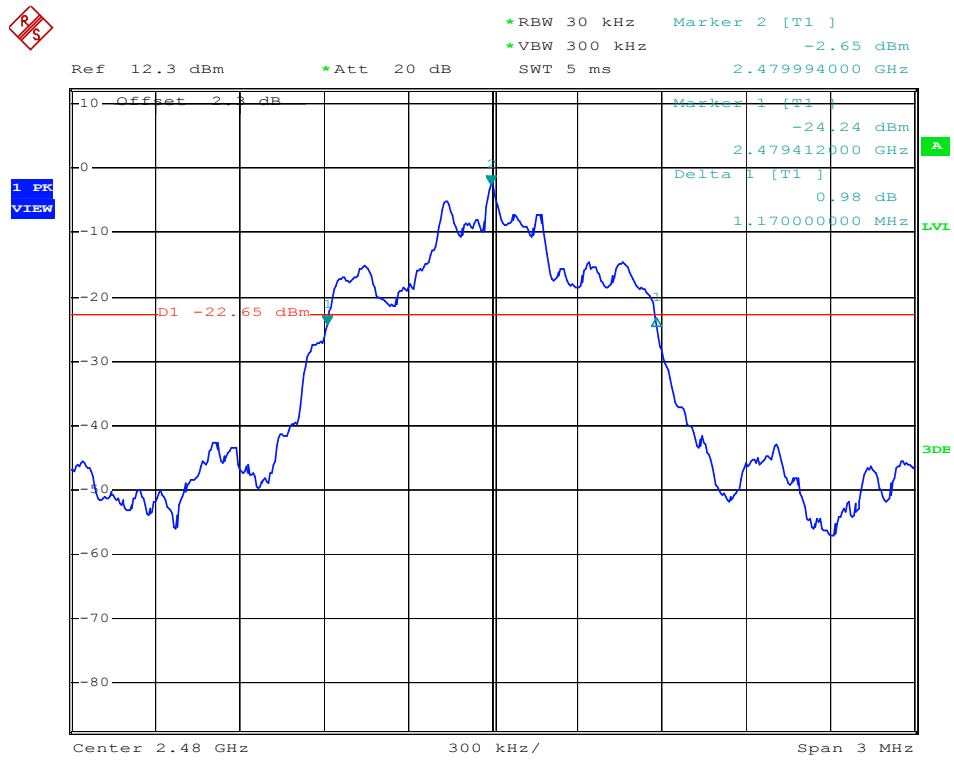


Middle Channel:





High Channel:



## 7. Conducted Emissions

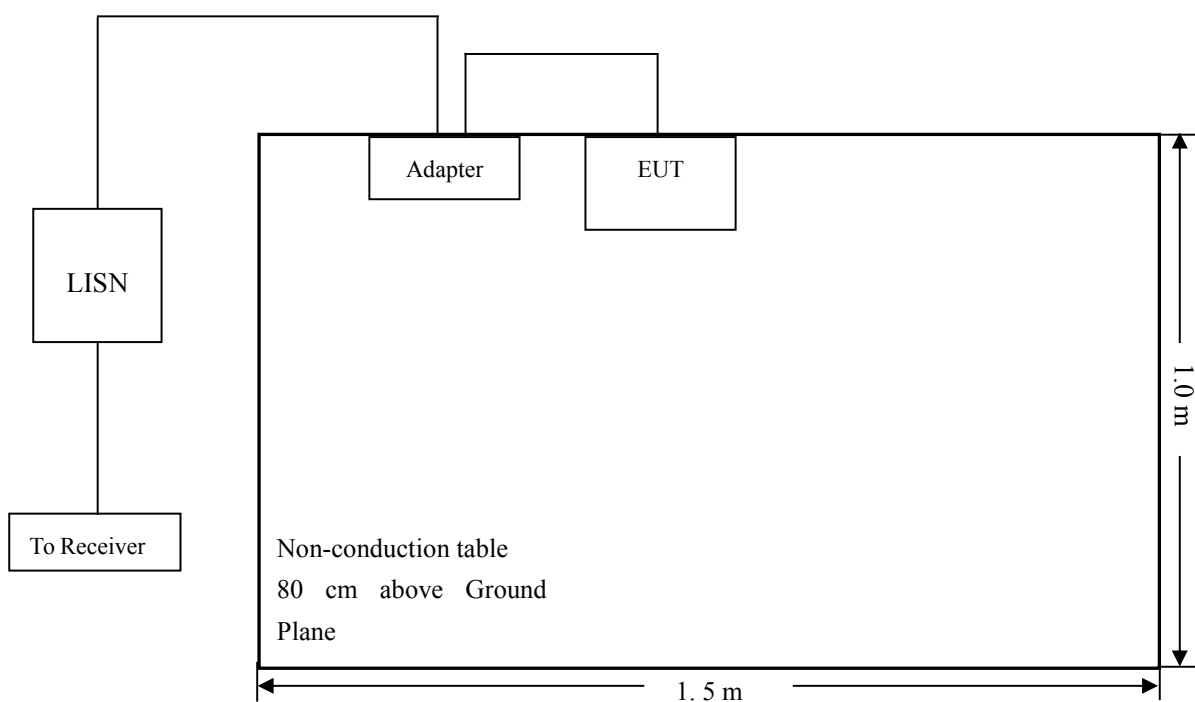
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### 7.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

### 7.2 Basic Test Setup Block Diagram



### 7.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

### 7.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150 kHz
Stop Frequency.....	30 MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth.....	9 kHz
Quasi-Peak Adapter Mode.....	Normal

### 7.5 Summary of Test Results/Plots

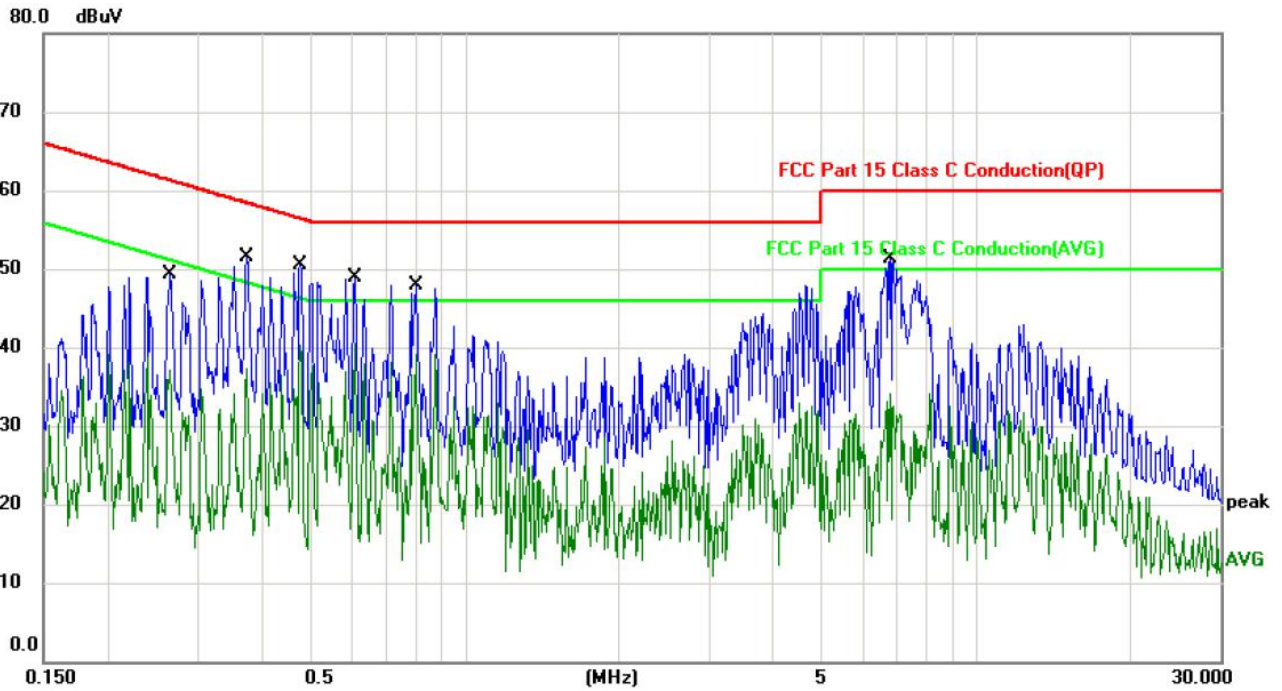
According to the data in section 7.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device.

### 7.6 Conducted Emissions Test Data

Note: We pre-scan all mode, the worst data is GFSK (Low channel).

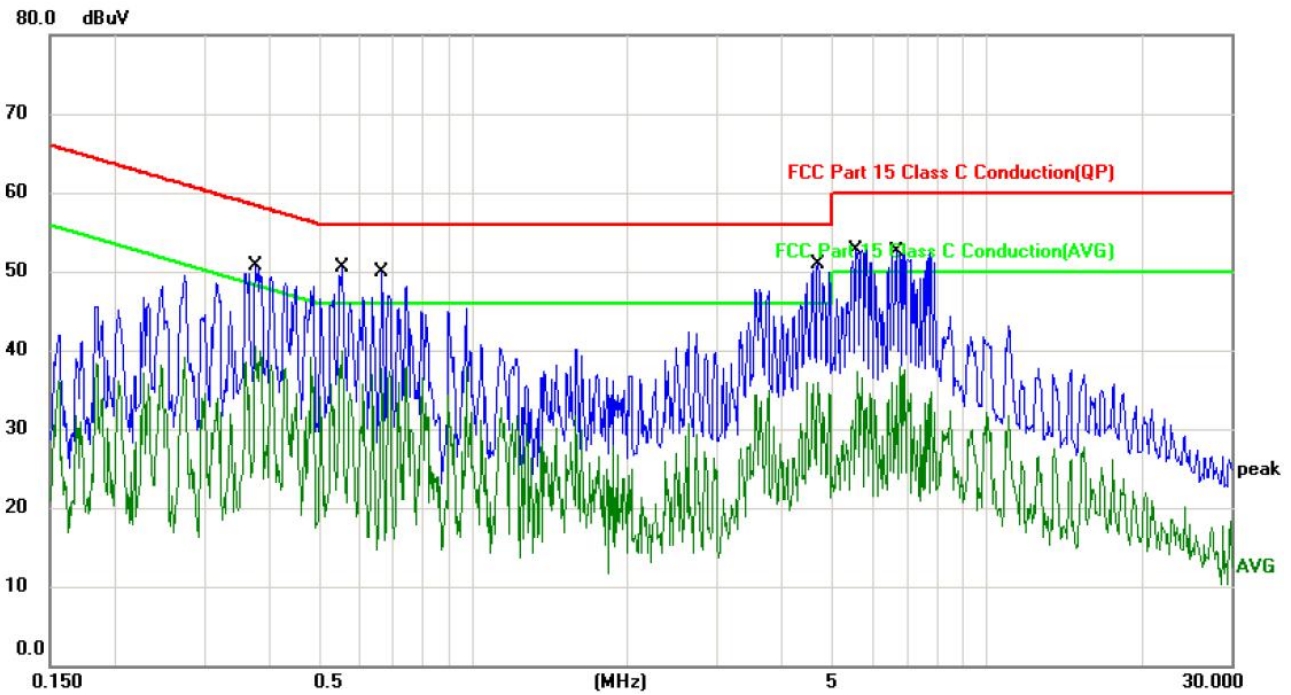
**Plot of Conducted Emissions The Worst Test Data GFSK (Low channel):**

Test Specification: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2644	48.96	0.33	49.29	61.29	-12.00	QP	
2		0.2644	37.59	0.33	37.92	51.29	-13.37	AVG	
3		0.3750	51.10	0.43	51.53	58.39	-6.86	QP	
4		0.3750	38.33	0.43	38.73	48.39	-9.66	AVG	
5		0.4761	50.05	0.51	50.56	56.41	-5.85	QP	
6		0.4761	41.15	0.51	41.66	46.41	-4.75	AVG	
7		0.6075	48.35	0.64	48.99	56.00	-7.01	QP	
8	*	0.6075	41.24	0.64	41.88	46.00	-4.12	AVG	
9		0.8002	47.11	0.73	47.84	56.00	-8.16	QP	
10		0.8002	37.39	0.73	38.12	46.00	-7.88	AVG	
11		6.7690	50.38	0.95	51.33	60.00	-8.67	QP	
12		6.7690	33.08	0.95	34.03	50.00	-15.97	AVG	

Test Specification: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3769	50.34	0.43	50.77	58.35	-7.58	QP	
2		0.3769	40.15	0.43	40.58	48.35	-7.77	AVG	
3		0.5552	49.91	0.57	50.48	56.00	-5.52	QP	
4		0.5552	39.16	0.57	39.73	46.00	-6.27	AVG	
5		0.6646	49.25	0.66	49.91	56.00	-6.09	QP	
6		0.6646	36.76	0.66	37.42	46.00	-8.58	AVG	
7	*	4.6962	49.99	0.86	50.85	56.00	-5.15	QP	
8		4.6962	36.07	0.86	36.93	46.00	-9.07	AVG	
9		5.5640	51.77	0.91	52.68	60.00	-7.32	QP	
10		5.5640	37.07	0.91	37.98	50.00	-12.02	AVG	
11		6.6977	51.55	1.03	52.58	60.00	-7.42	QP	
12		6.6977	36.98	1.03	38.01	50.00	-11.99	AVG	

NOTE:

Corret Factor=LISN Factor+Cable loss.

Measurementt=Reading level+Corret Factor.

\*\*\*\*\* END OF REPORT \*\*\*\*\*