

FCC Test Report

Report No.: AGC03554190301FE03

FCC ID : 2ASPVMI-E005B
PRODUCT DESIGNATION : Wireless Dual Chamber Metal Earphone
BRAND NAME : MERKURY
MODEL NAME : MI-E005B, UZ-E005B
APPLICANT : HK KZH TRADING CO., LTD
DATE OF ISSUE : Mar. 20, 2019
STANDARD(S) : 47 CFR FCC Part 15 Subpart C 15.247
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 20, 2019	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	HK KZH TRADING CO., LTD
Address	Unit 04,7/F BRIGHT WAY TOWER NO 33 MONG KOK RD KL CHINA
Manufacturer	Shantou KZH Electronics Co., Ltd
Address	NO.88,Linbagang Industrial Park,Jinpu Town,Chaoyg Disctrict,Shantou City,Guangdong,China
Factory	Shantou KZH Electronics Co., Ltd
Address	NO.88,Linbagang Industrial Park,Jinpu Town,Chaoyg Disctrict,Shantou City,Guangdong,China
Product Designation	Wireless Dual Chamber Metal Earphone
Brand Name	MERKURY
Test Model	MI-E005B
Series Model	UZ-E005B
Difference description	All the same except for the model name.
Date of test	Mar. 12, 2019 to Mar. 20, 2019
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

The test results of this report relate only to the tested sample identified in this report.

Tested By

Jeast

Jeast Zhan(Zhan Jiangdong)

Mar. 20, 2019

Reviewed By

Bart Xie

Bart Xie(Xie Xiaobin)

Mar. 20, 2019

Approved By

Forrest Lei

Forrest Lei(Lei Yonggang)
Authorized Officer

Mar. 20, 2019

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Wireless Dual Chamber Metal Earphone" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following:

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.1
Modulation	GFSK, $\pi/4$ -DQPSK
Number of channels	79(For BR/EDR)
Hardware Version	V1.2
Software Version	F6E9AFC6
Antenna Designation	PCB Antenna
Antenna Gain	-0.58dBi
Power Supply	DC3.7V by Battery

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz. In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection (e.g. single or multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be sent on the same frequency, it is sent on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCE IN DATA MODE

Example of a 79 hopping sequence in data mode:

40, 21, 44, 23, 42, 53, 46, 55, 48, 33, 52, 35, 50, 65, 54, 67
56, 37, 60, 39, 58, 69, 62, 71, 64, 25, 68, 27, 66, 57, 70, 59
72, 29, 76, 31, 74, 61, 78, 63, 01, 41, 05, 43, 03, 73, 07, 75
09, 45, 13, 47, 11, 77, 15, 00, 64, 49, 66, 53, 68, 02, 70, 06
01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.
2. Internal master clock

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24 MSB's of the 48 BD_ADDRESS.

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronization with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day (23h30). In most cases it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire LAP (24 bits), 4 LSB's (4 bits) (Input 1) and the 27 MSB's of the clock (Input 2) are used. With these input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence.

This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmissions is longer (and it cannot be shorter) than the minimum resolution of the clock (312.5us). The hopping sequence will always differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ASPVMI-E005B** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

Test	Measurement Uncertainty	Notes
Transmitter power conducted	± 0.57 dB	(1)
Transmitter power Radiated	± 2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	± 2.20 dB	(1)
Occupied Bandwidth	± 0.01 ppm	(1)
Radiated Emission30~1000MHz	± 4.10 dB	(1)
Radiated Emission Above 1GHz	± 4.32 dB	(1)
Conducted Disturbance0.15~30MHz	± 3.20 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

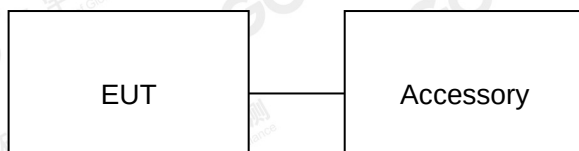
1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configuration:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Dual Chamber Metal Earphone	MI-E005B	2ASPVM I-E005B	EUT
2	Battery	N/A	DC3.7V	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Power Line Conduction Emission	N/A
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation	Compliant

Note: N/A stands for not applicable. The device can not use the BT function with charging.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

ALL TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

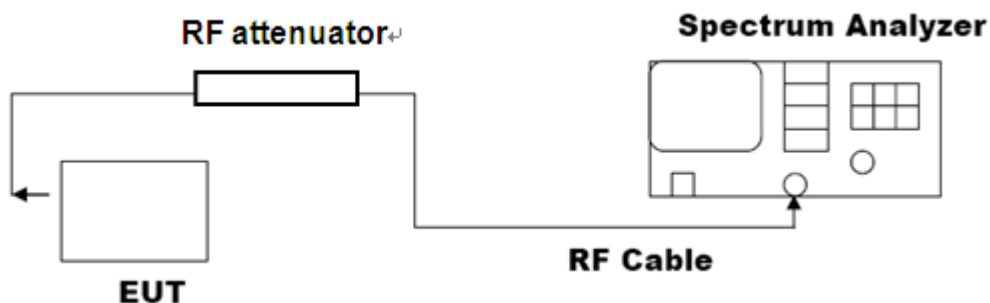
For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
3. Use the following spectrum analyzer settings:
 - 1) Span : Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW $\geq$ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
4. Record the maximum power from the Spectrum Analyzer.

Note : The EUT was tested according for compliance ANSI C63.10 (2013) requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

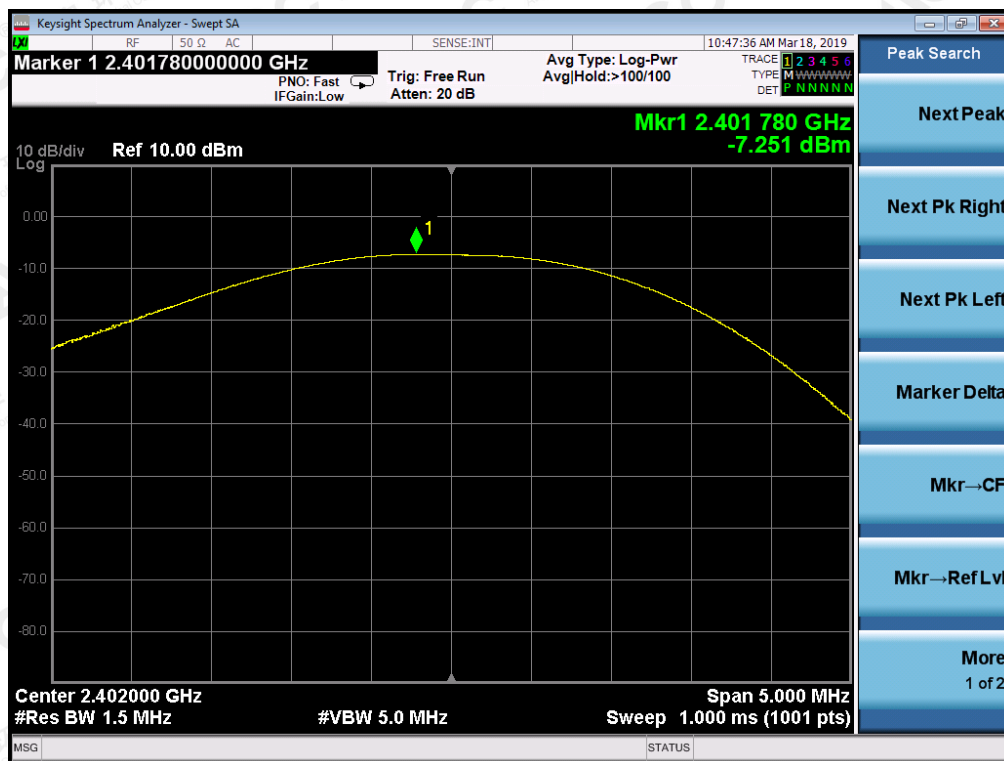
PEAK POWER TEST SETUP



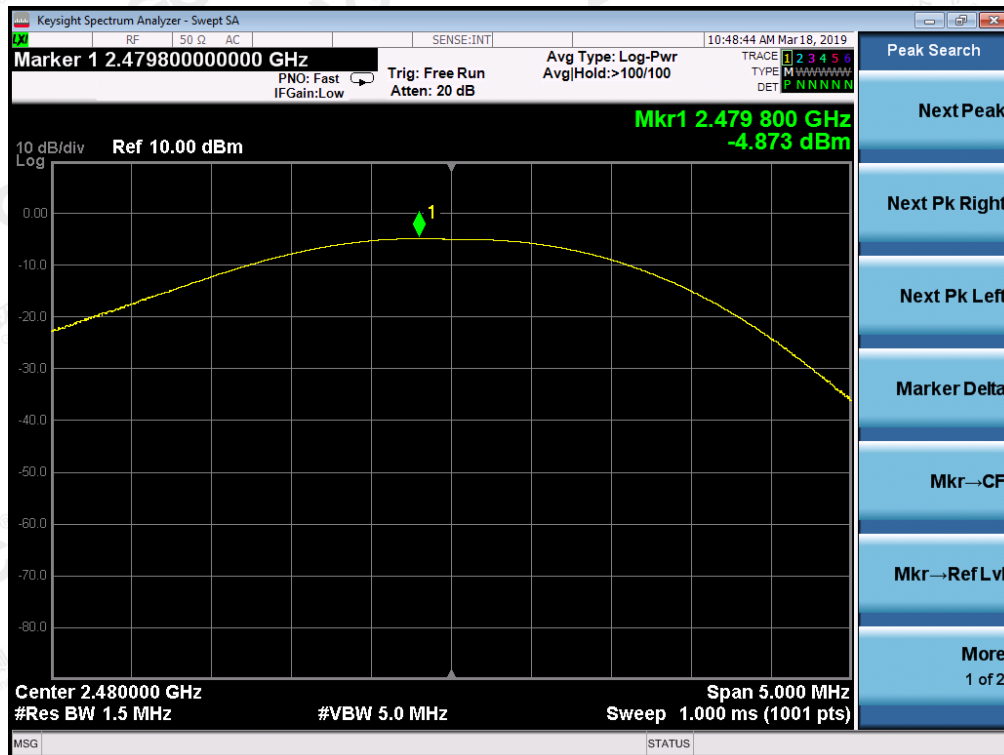
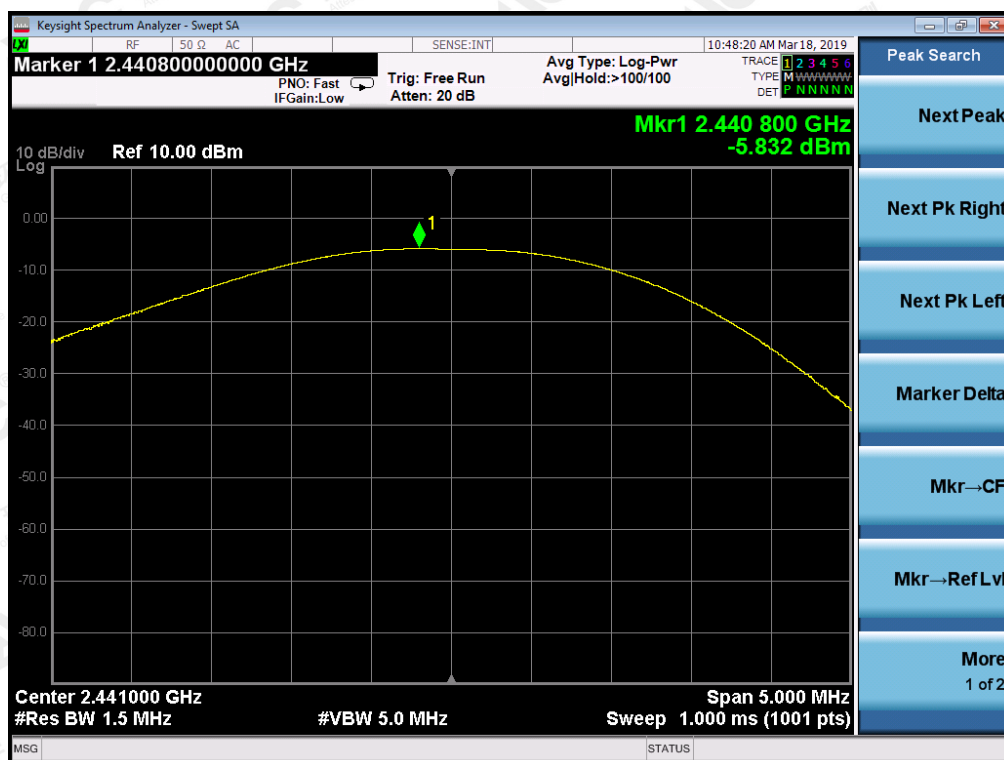
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7.3. LIMITS AND MEASUREMENT RESULT

Mode	Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
GFSK	2.402	-7.251	30	Pass
	2.441	-5.832	30	Pass
	2.480	-4.873	30	Pass

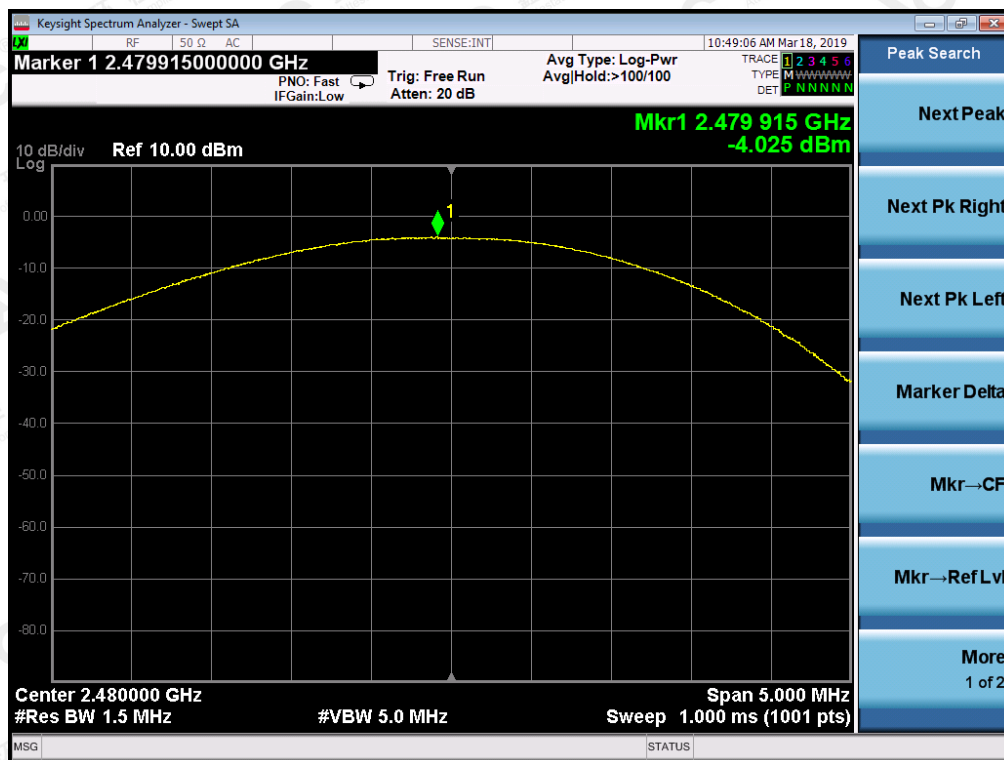


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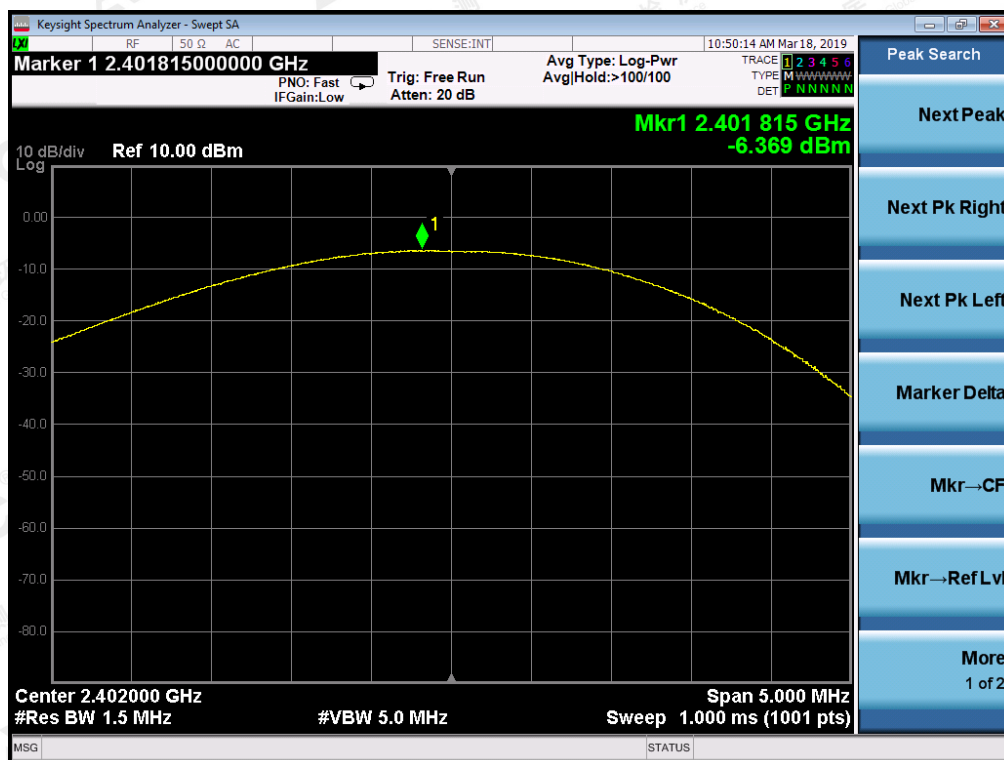
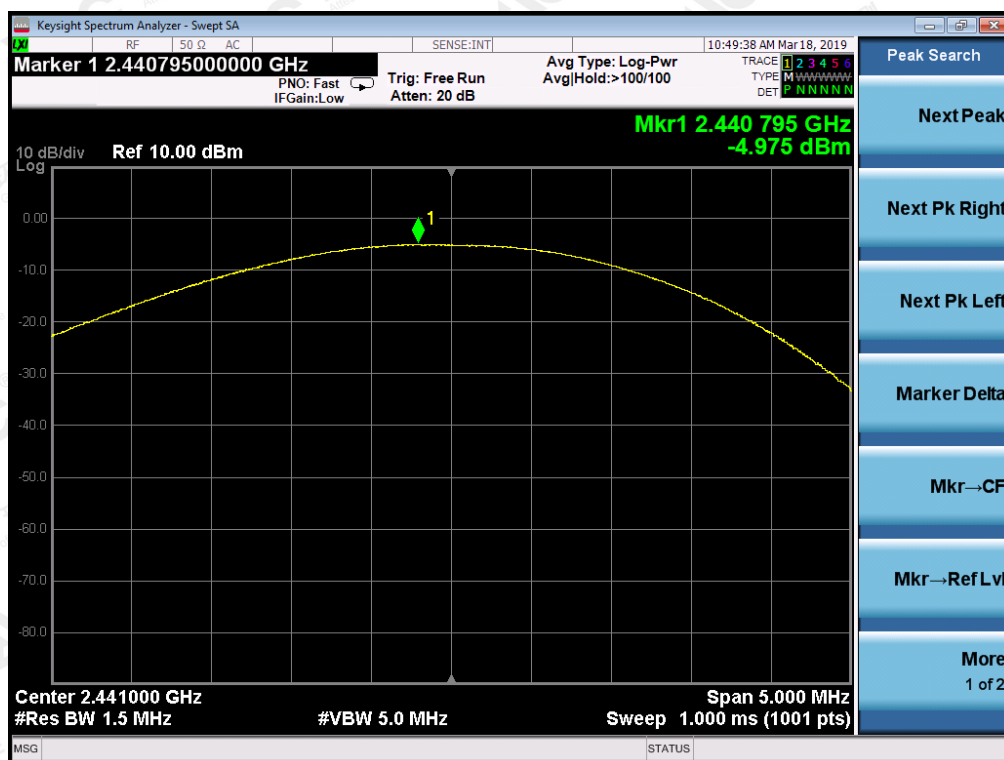


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Mode	Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
π/4-DQPSK	2.402	-4.025	30	Pass
	2.441	-4.975	30	Pass
	2.480	-6.369	30	Pass



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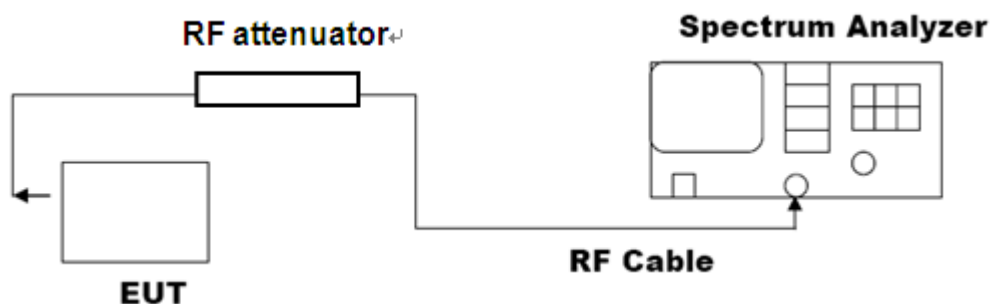
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8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

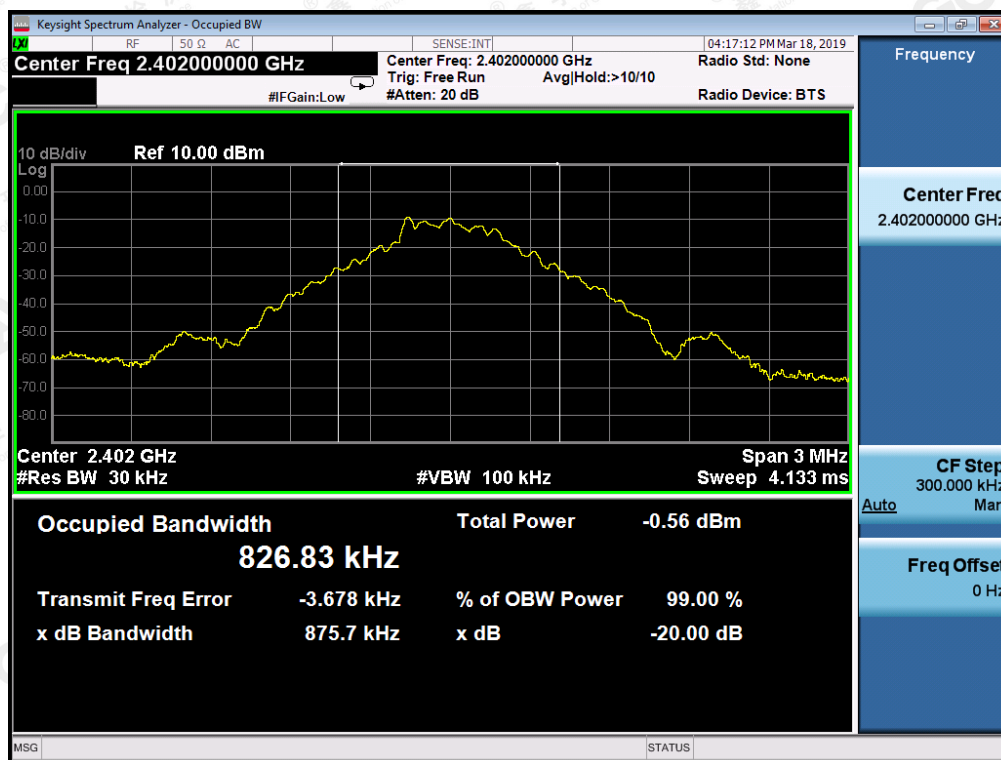
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



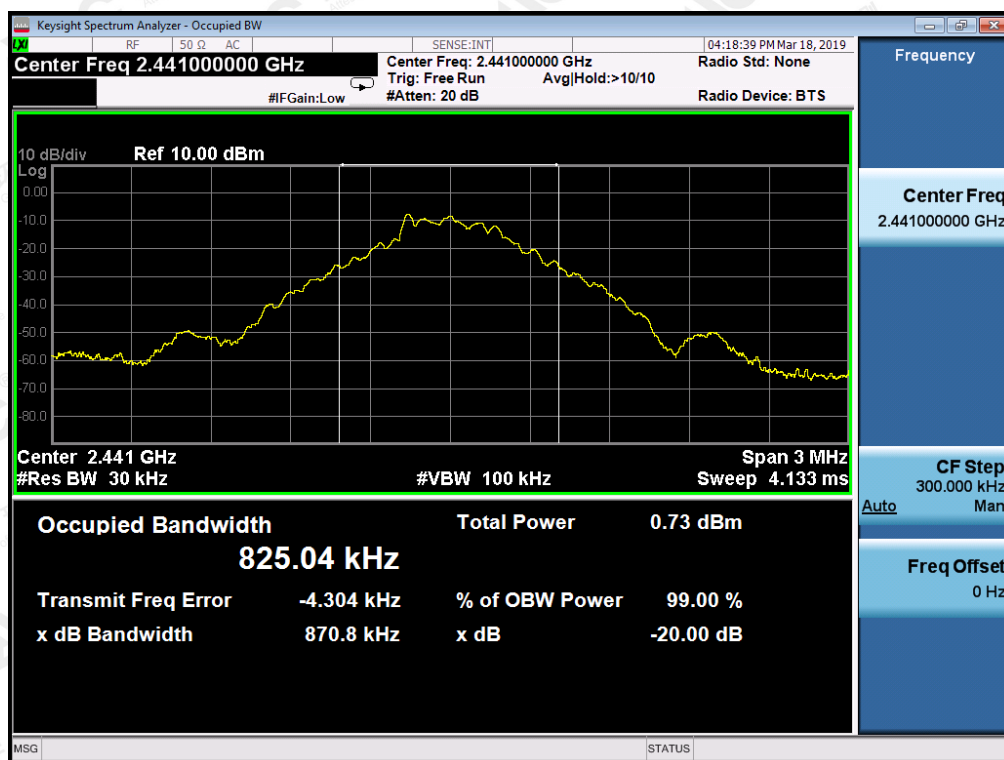
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8.3. LIMITS AND MEASUREMENT RESULTS

Mode	Channel.	20dB Bandwidth [MHz]	Verdict
GFSK	LCH	875.7	PASS
GFSK	MCH	870.8	PASS
GFSK	HCH	876.0	PASS



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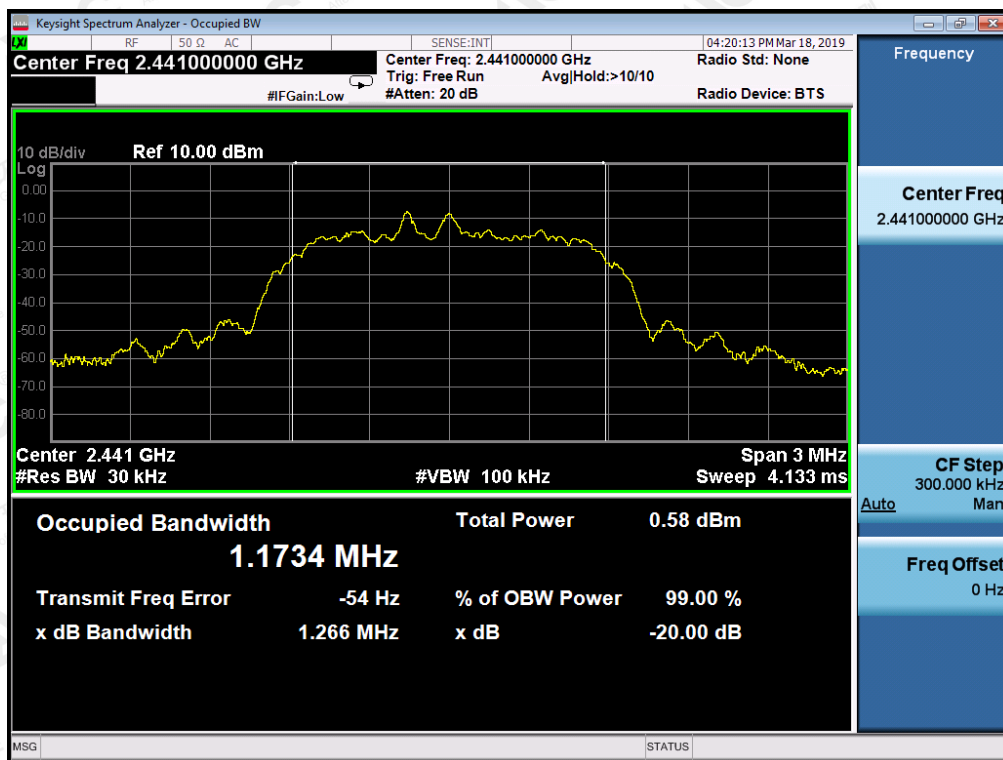


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Mode	Channel.	20dB Bandwidth [MHz]	Verdict
$\pi/4$ DQPSK	LCH	1.266	PASS
$\pi/4$ DQPSK	MCH	1.266	PASS
$\pi/4$ DQPSK	HCH	1.266	PASS



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
RBW = 100 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according for compliance ANSI C63.10 (2013) requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

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9.3. MEASUREMENT EQUIPMENT USED

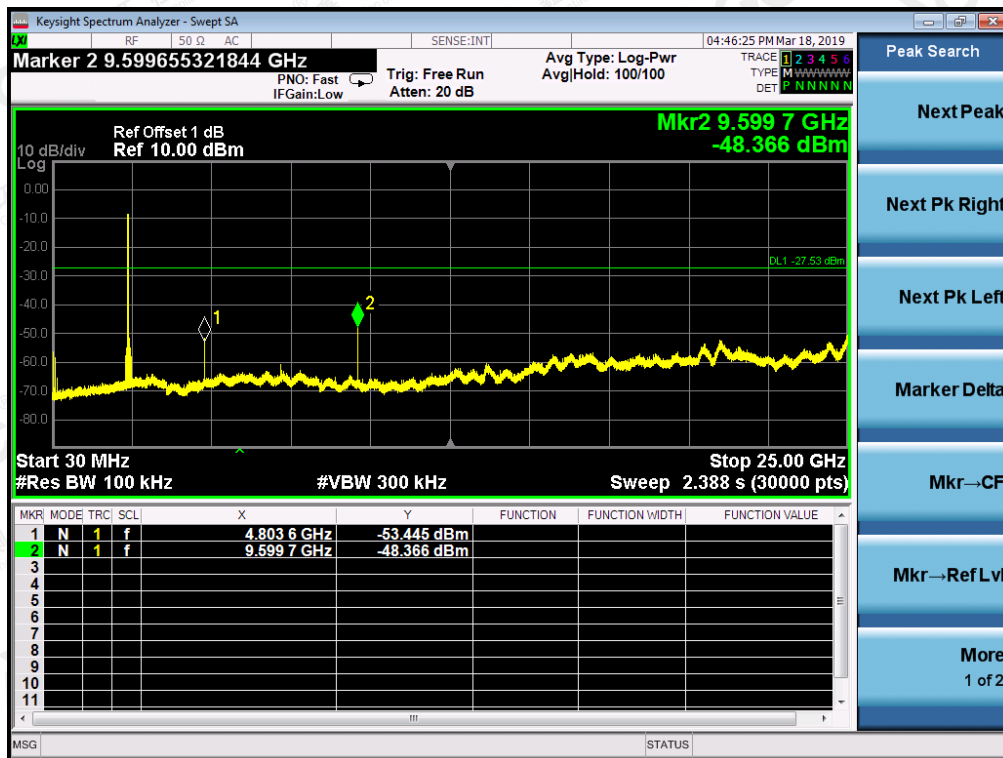
The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

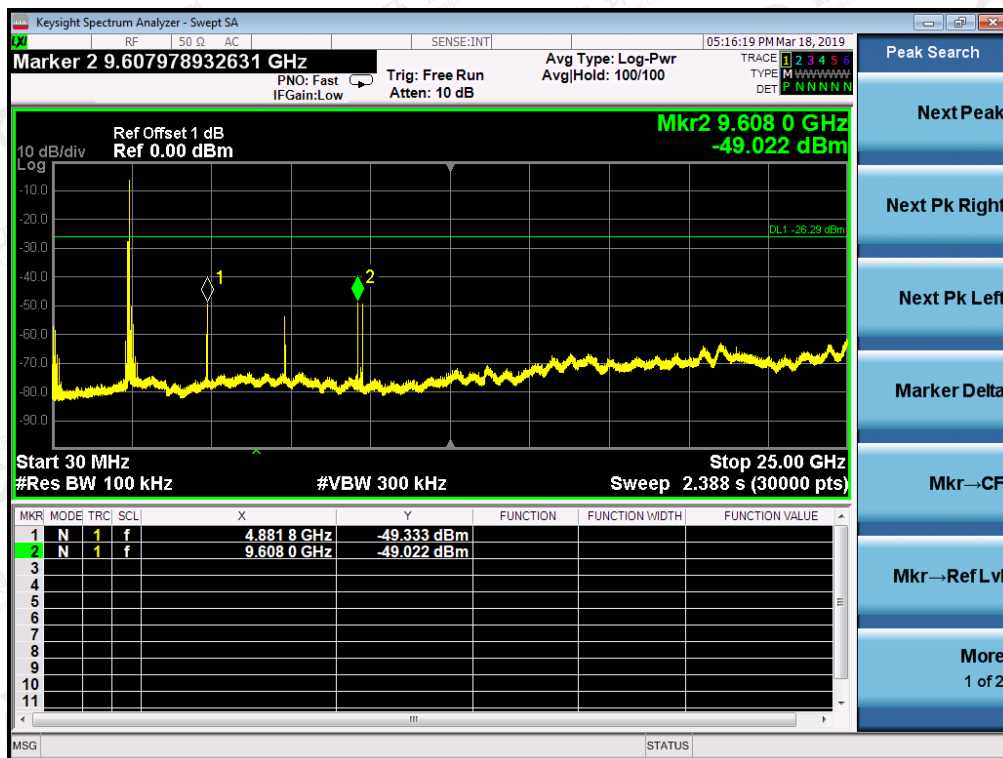
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TEST RESULT FOR ENTIRE FREQUENCY RANGE
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF GFSK MODULATION IN LOW CHANNEL



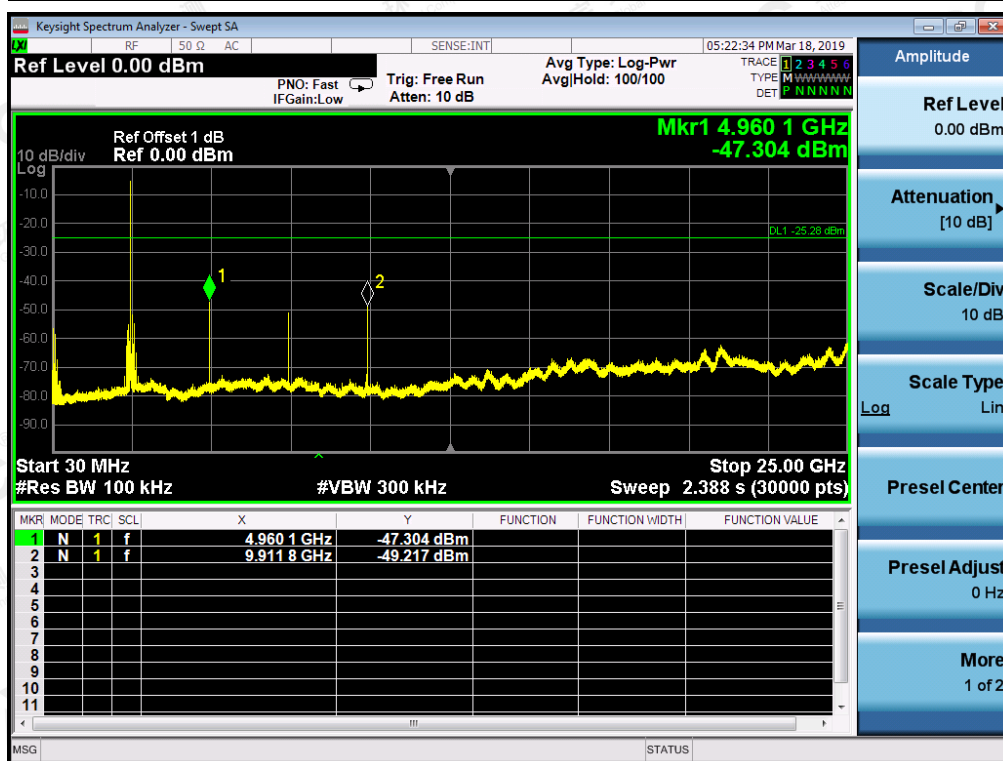
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TEST PLOT OF OUT OF BAND EMISSIONS
OF GFSK MODULATION IN MIDDLE CHANNEL



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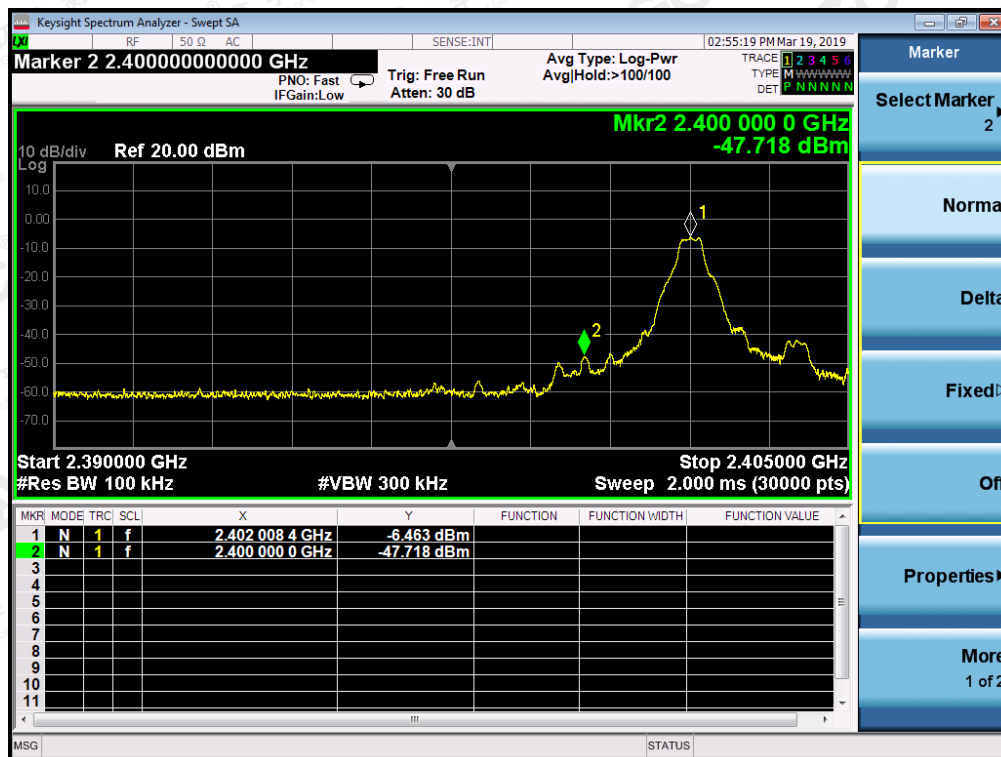
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL



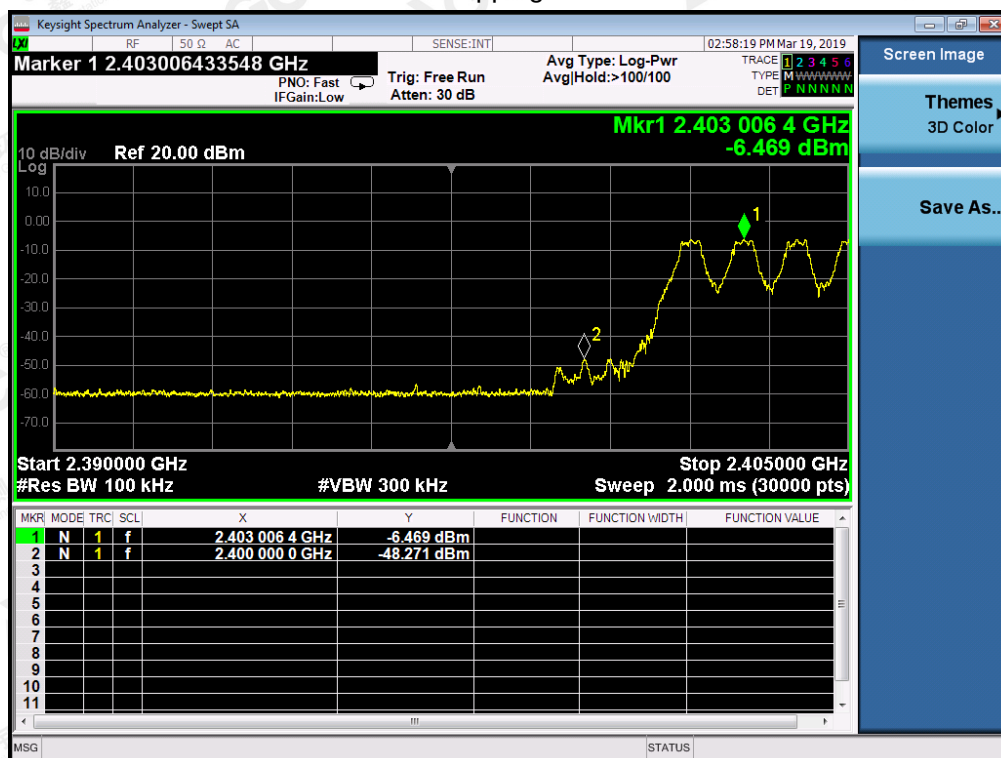
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The GFSK modulation is the worst case and only those data recorded in the report.

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TEST RESULT FOR BAND EDGE
GFSK MODULATION IN LOW CHANNEL
Hopping off

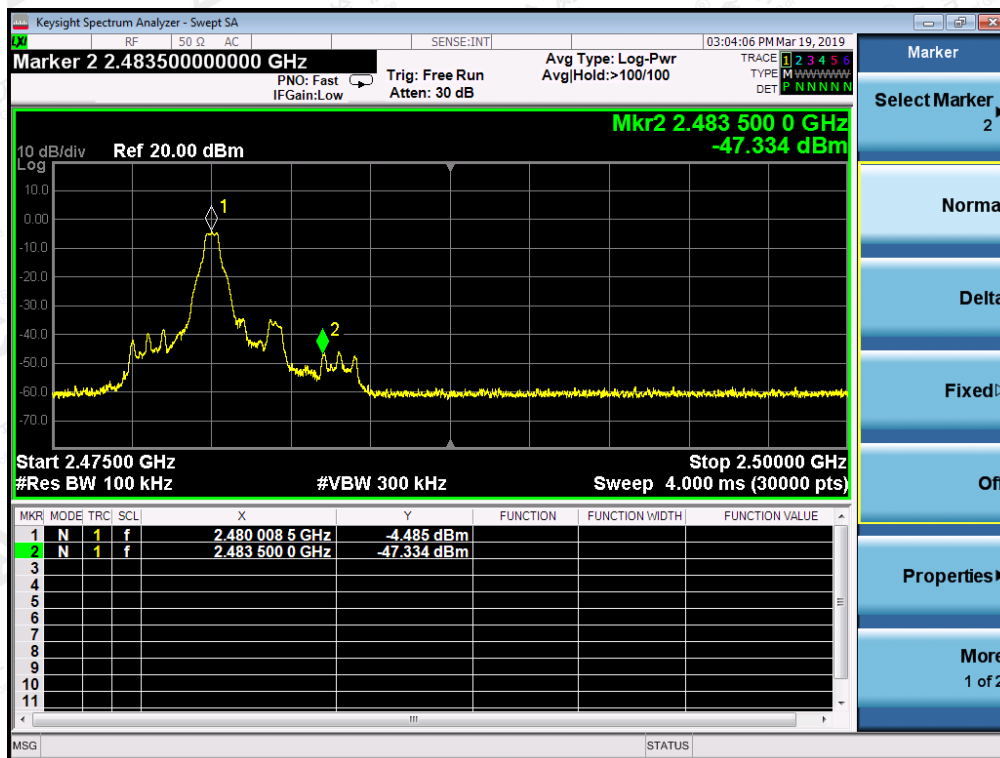


Hopping on

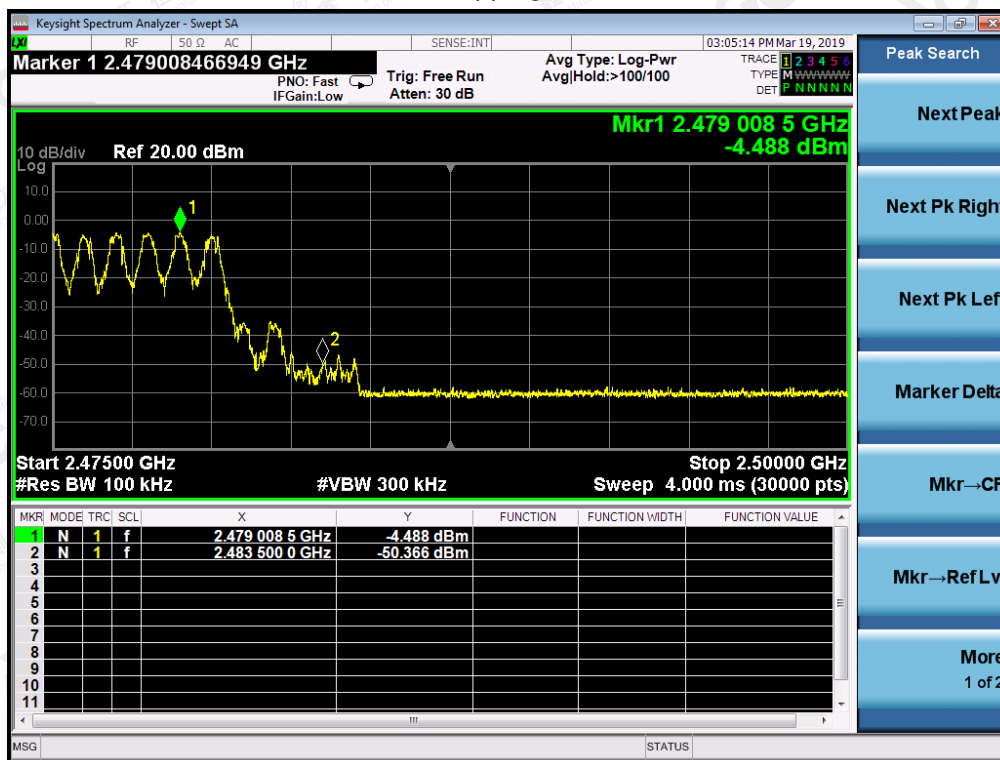


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GFSK MODULATION IN HIGH CHANNEL Hopping off

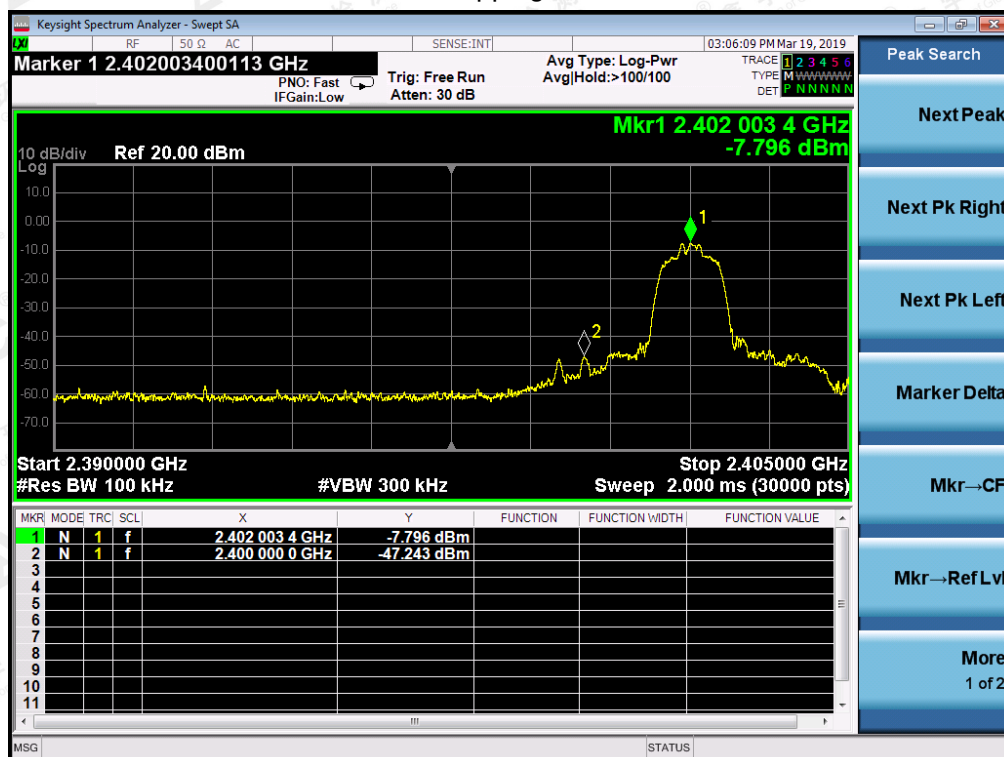


Hopping on

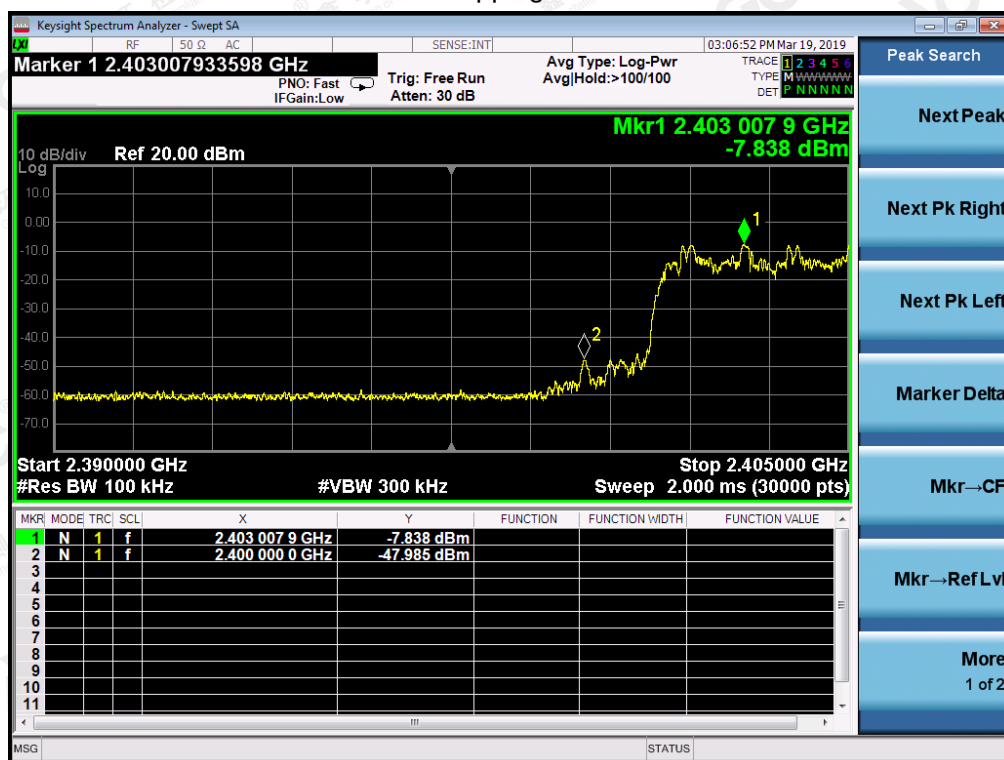


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$\pi/4$ -DQPSK MODULATION IN LOW CHANNEL
Hopping off

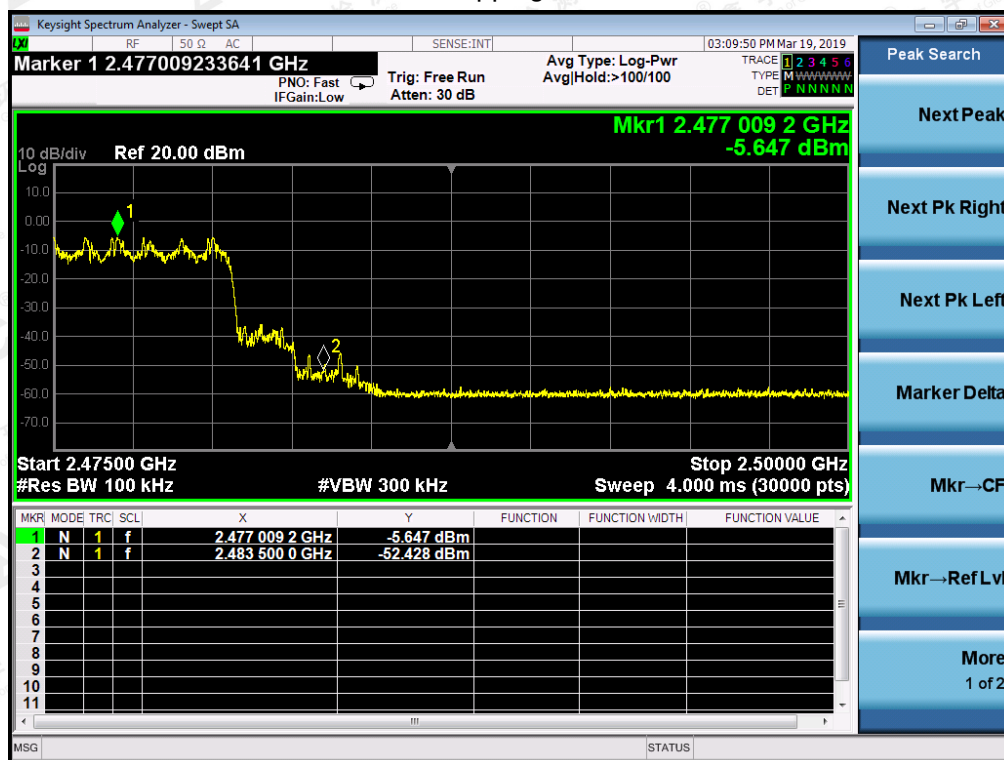


Hopping on



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$\pi/4$ -DQPSK MODULATION IN HIGH CHANNEL
Hopping off



Hopping on



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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

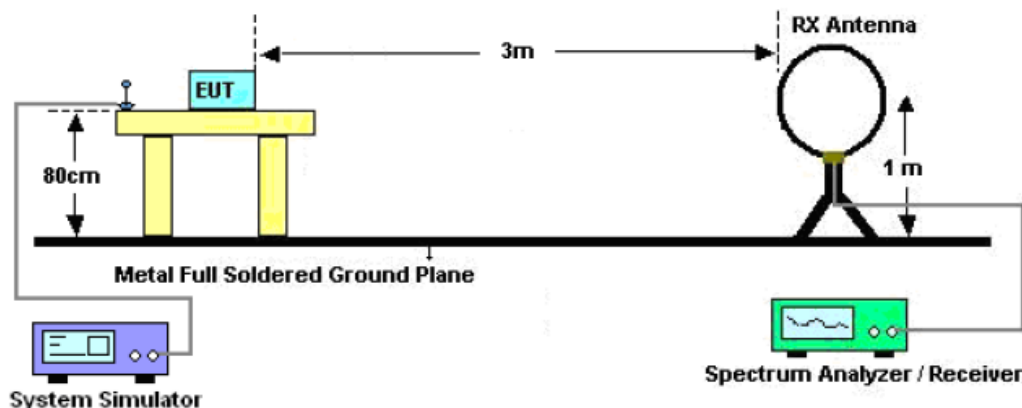
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

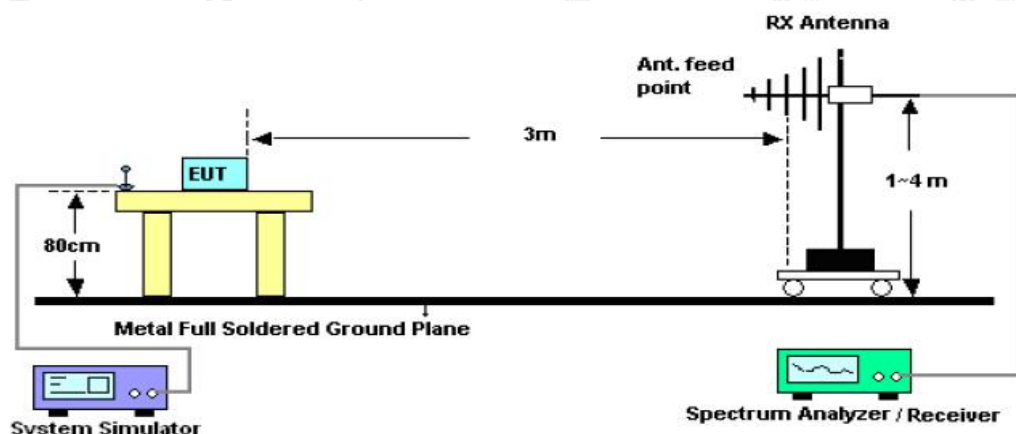
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10.2. TEST SETUP

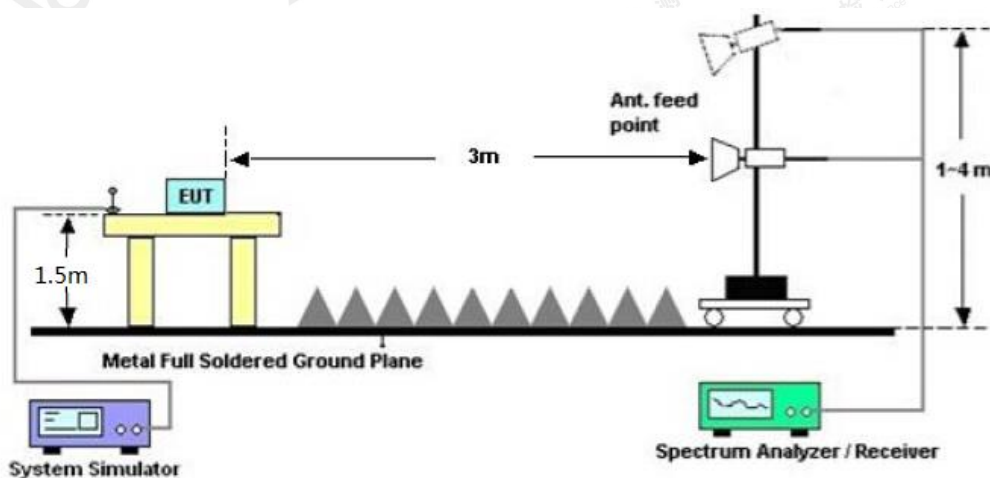
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHZ



RADIATED EMISSION TEST SETUP 30MHZ-1000MHZ



RADIATED EMISSION TEST SETUP ABOVE 1000MHZ



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10.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
 the test records reported below are the worst result compared to other modes.

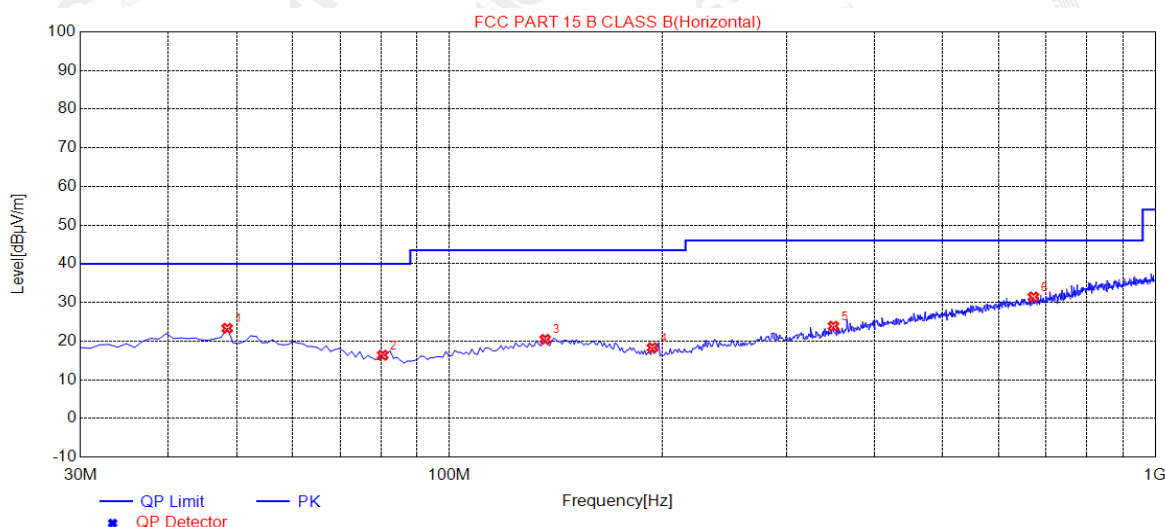
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RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal



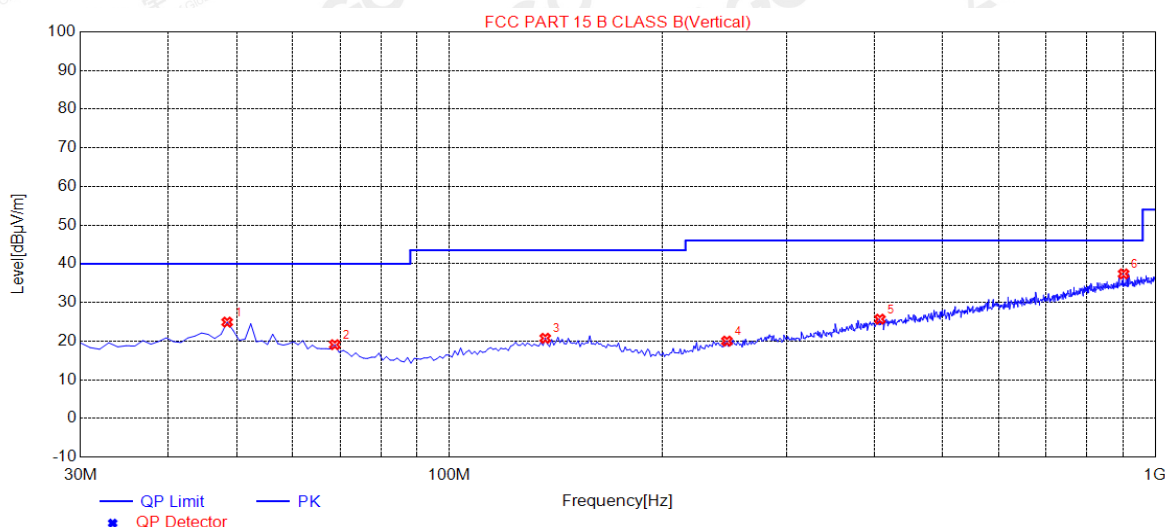
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	23.29	14.71	40.00	16.71	150	350	Horizontal
2	80.4400	16.34	10.15	40.00	23.66	100	140	Horizontal
3	136.7000	20.43	14.64	43.50	23.07	100	240	Horizontal
4	193.9300	18.28	12.34	43.50	25.22	100	290	Horizontal
5	350.1000	23.85	17.85	46.00	22.15	200	330	Horizontal
6	672.1400	31.41	25.51	46.00	14.59	200	270	Horizontal

RESULT: PASS

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	24.90	14.71	40.00	15.10	200	300	Vertical
2	68.8000	19.07	12.43	40.00	20.93	150	70	Vertical
3	136.7000	20.73	14.64	43.50	22.77	150	90	Vertical
4	247.2800	19.99	14.73	46.00	26.01	100	20	Vertical
5	407.3300	25.67	19.98	46.00	20.33	100	260	Vertical
6	902.0300	37.38	30.16	46.00	8.62	100	10	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2 All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.062	48.52	3.21	51.73	74	-22.27	peak
4804.062	34.32	3.54	37.86	54	-16.14	AVG
7206.093	43.52	8.33	51.85	74	-22.15	peak
7206.093	31.67	8.03	39.7	54	-14.3	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.062	48.74	3.19	51.93	74	-22.07	peak
4804.062	34.48	3.58	38.06	54	-15.94	AVG
7206.093	43.69	8.36	52.05	74	-21.95	peak
7206.093	31.72	8.18	39.9	54	-14.1	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.062	48.69	3.42	52.11	74	-21.89	peak
4882.062	35.15	3.09	38.24	54	-15.76	AVG
7323.093	44.08	8.15	52.23	74	-21.77	peak
7323.093	31.75	8.33	40.08	54	-13.92	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.062	48.8	3.54	52.34	74	-21.66	peak
4882.062	35.28	3.19	38.47	54	-15.53	AVG
7323.093	43.88	8.58	52.46	74	-21.54	peak
7323.093	31.95	8.36	40.31	54	-13.69	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.062	49.1	3.43	52.53	74	-21.47	peak
4960.062	35.23	3.43	38.66	54	-15.34	AVG
7440.093	44.56	8.09	52.65	74	-21.35	peak
7440.093	32.22	8.28	40.5	54	-13.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.062	48.88	3.83	52.71	74	-21.29	peak
4960.062	35.01	3.83	38.84	54	-15.16	AVG
7440.093	44.57	8.26	52.83	74	-21.17	peak
7440.093	32.42	8.26	40.68	54	-13.32	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.
 Factor=Antenna Factor+ Cable loss-Amplifier gain, Over=Measure-Limit.
 The “Factor” value can be calculated automatically by software of measurement system.
 All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

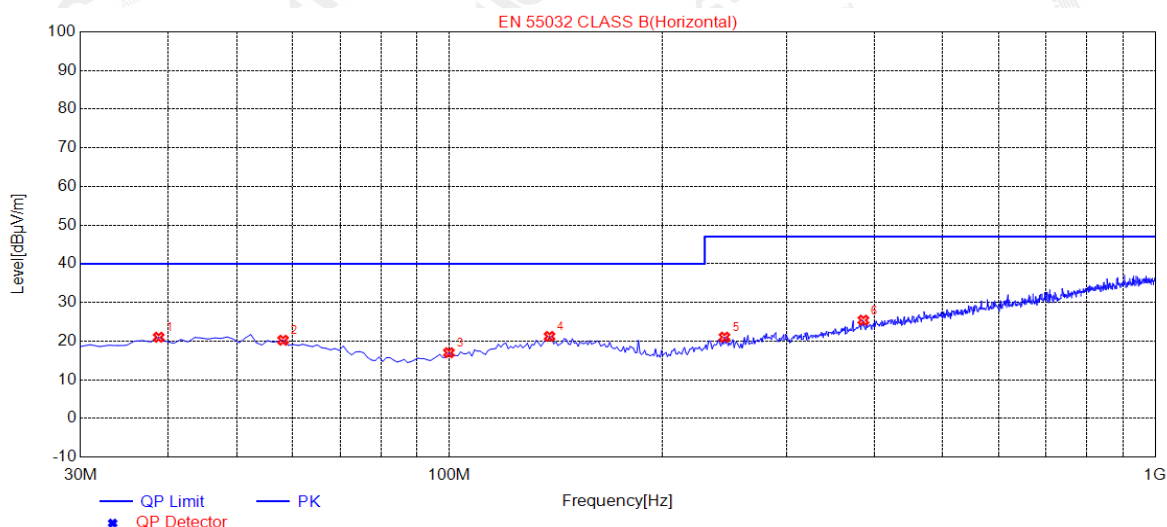
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RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

EUT	Wireless Dual Chamber Metal Earphone	Model Name	UZ-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal



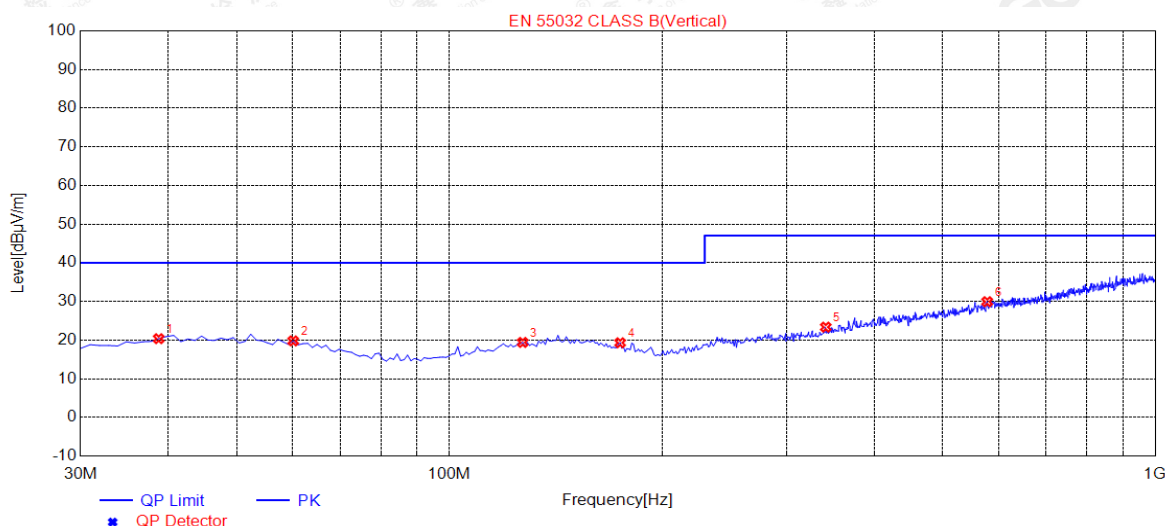
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.7300	20.99	14.63	40.00	19.01	100	320	Horizontal
2	58.1300	20.22	14.05	40.00	19.78	200	10	Horizontal
3	99.8400	16.99	11.35	40.00	23.01	150	350	Horizontal
4	138.6400	21.21	14.78	40.00	18.79	200	10	Horizontal
5	245.3400	21.01	14.76	47.00	25.99	200	290	Horizontal
6	385.9900	25.40	19.30	47.00	21.60	100	150	Horizontal

RESULT: PASS

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	UZ-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.7300	20.36	14.63	40.00	19.64	200	280	Vertical
2	60.0700	19.79	13.90	40.00	20.21	100	110	Vertical
3	127.0000	19.39	13.95	40.00	20.61	100	240	Vertical
4	174.5300	19.30	13.52	40.00	20.70	200	290	Vertical
5	341.3700	23.35	17.52	47.00	23.65	150	100	Vertical
6	578.0500	29.93	23.86	47.00	17.07	100	10	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2 All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Wireless Dual Chamber Metal Earphone	Model Name	UZ-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.062	49.83	3.11	52.94	74	-21.06	peak
4804.062	35.88	3.19	39.07	54	-14.93	AVG
7206.093	44.83	8.23	53.06	74	-20.94	peak
7206.093	32.68	8.23	40.91	54	-13.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804.062	49.9	3.26	53.16	74	-20.84	peak
4804.062	36.13	3.16	39.29	54	-14.71	AVG
7206.093	44.87	8.41	53.28	74	-20.72	peak
7206.093	32.85	8.28	41.13	54	-12.87	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	UZ-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.062	50.33	3.00	53.33	74	-20.67	peak
4882.062	36.27	3.19	39.46	54	-14.54	AVG
7323.093	44.59	8.86	53.45	74	-20.55	peak
7323.093	33.09	8.21	41.3	54	-12.7	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.062	50.1	3.44	53.54	74	-20.46	peak
4882.062	36.39	3.28	39.67	54	-14.33	AVG
7323.093	44.91	8.75	53.66	74	-20.34	peak
7323.093	32.88	8.63	41.51	54	-12.49	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.062	50.24	3.55	53.79	74	-20.21	peak
4960.062	36.09	3.83	39.92	54	-14.08	AVG
7440.093	45.64	8.27	53.91	74	-20.09	peak
7440.093	33.5	8.26	41.76	54	-12.24	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.062	50.91	3.11	54.02	74	-19.98	peak
4960.062	37.10	3.05	40.15	54	-13.85	AVG
7440.093	45.71	8.43	54.14	74	-19.86	peak
7440.093	33.78	8.21	41.99	54	-12.01	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

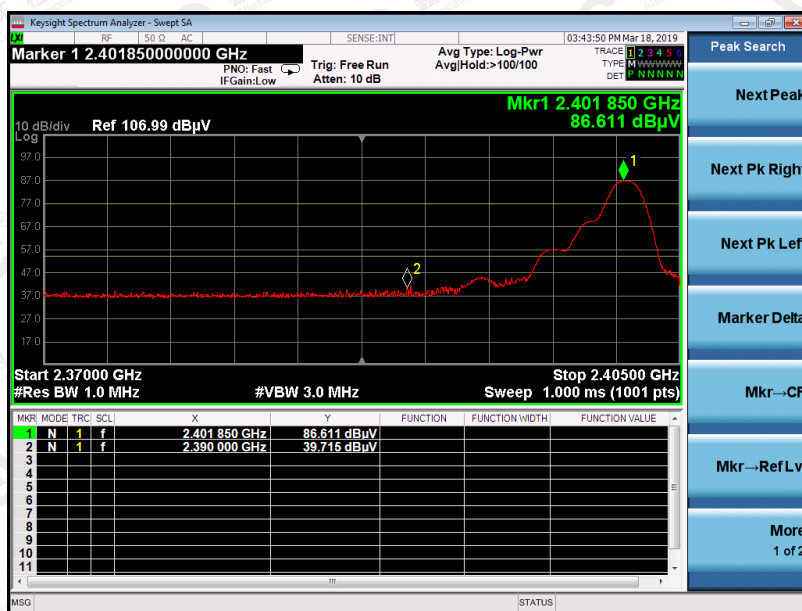
Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.
 Factor=Antenna Factor+ Cable loss-Amplifier gain, Over=Measure-Limit.
 The “Factor” value can be calculated automatically by software of measurement system.
 All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

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TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV

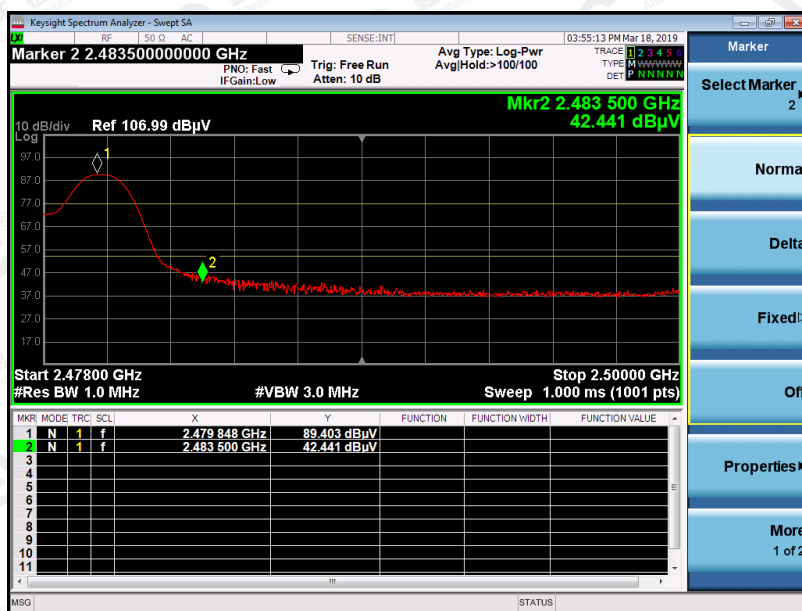


RESULT: PASS

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV

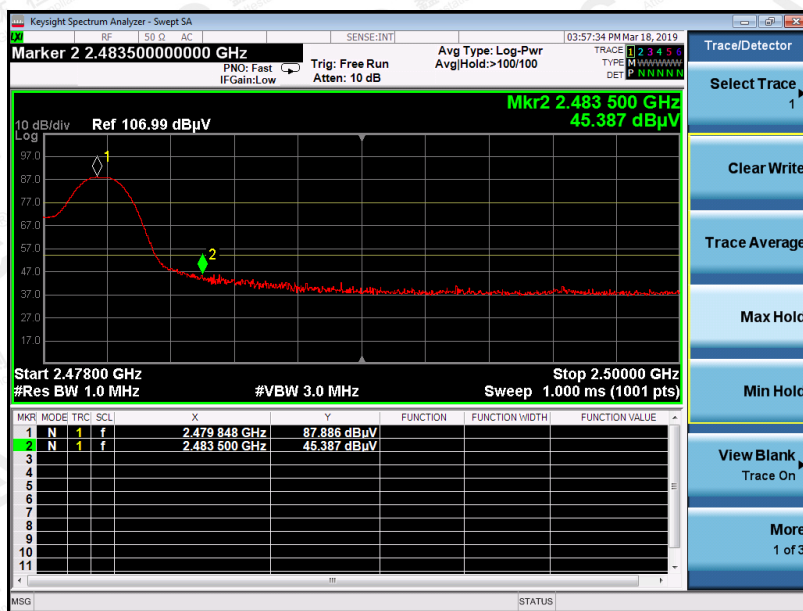


RESULT: PASS

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EUT	Wireless Dual Chamber Metal Earphone	Model Name	MI-E005B
Temperature	25.2°C	Relative Humidity	55.7%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



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RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.

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