



RF TEST REPORT

Applicant Bullitt Group
FCC ID ZL5B40E
Product Mobile Phone
Brand CAT
Model B40
Report No. R2101A0004-R4V2
Issue Date March 25, 2021

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2019)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	March 17, 2021
Rev.1	Update information.	March 19, 2021
Rev.2	Update data for chapter 5.1,, 5.3, 5.4, 5.5, 5.6 and 5.7	March 25, 2021
Note: This revised report (Report No. R2101A0004-R4V2) supersedes and replaces the previously issued report (Report No. R2101A0004-R4V1). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Frequency Hopping System	15.247 (g), (h)	PASS
2	Peak Power Output	15.247(b)(1)	PASS
3	Occupied Bandwidth (20dB)	15.247(a)(1)	PASS
4	Frequency Separation	15.247(a)(1)	PASS
5	Time of Occupancy (Dwell Time)	15.247(a)(1)(iii)	PASS
6	Band Edge Compliance	15.247(d)	PASS
7	Number of Hopping Frequency	15.247(a)(1)(iii)	PASS
8	Spurious RF Conducted Emissions	15.247(d)	PASS
9	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS
10	Conducted Emissions	15.207	PASS
Date of Testing: January 12, 2021 ~ March 25, 2021			
Date of Sample Received: January 4, 2021			
Note: All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City: Shanghai
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E-mail: xukai@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Bullitt Group
Applicant address	One Valpy, Valpy Street, Reading, Berkshire, RG1 1AR, United Kingdom
Manufacturer	Bullitt Mobile Limited
Manufacturer address	One Valpy, Valpy Street, Reading, Berkshire, RG1 1AR, United Kingdom

2.2 General information

EUT Description			
Model	B40		
IMEI:	IMEI 1:351743660003344 IMEI 2:351743660003351		
Hardware Version	V00		
Radio Version	Dual SIM: LTE_D03140.10_B40 Single SIM: LTE_S03140.10_B40		
Power Supply	Battery/AC adapter		
Antenna Type	Internal Antenna		
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)		
Antenna Gain	-1.5dBi		
Test Mode(s)	Basic Rate	Enhanced Data Rate(EDR)	
Modulation Type	Frequency Hopping Spread Spectrum (FHSS)		
	GFSK	π/4 DQPSK	8DPSK
Packet Type (Maximum Payload)	DH5	2DH5	3DH5
Max. Conducted Power	8.35dBm		
Operating Frequency Range(s)	2402-2480 MHz		
EUT Accessory			
Battery	Manufacturer: NINGBO VEKEN BATTERY CO., LTD Model:178205511		
Earphone	Manufacturer: JIU JIANG JUWEI ELECTRONICS CO.,LTD Model: JWEP1192-M01H		
USB Cable	Manufacturer: SHENZHEN FKY-QY HARDWARE ELECTRONIC CO.,LTD Model: MO36B2000100		
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by			



the applicant.

Difference Configuration Statement				
Configuration	Configuration 1		Configuration 2	
	Dual card slots	Single card slot	Dual card slots	Single card slot
Memory	DOS DS35M1GA-IB		ESMT F50D1G41LB-83YG2ME	
LCD	Sanlong CT024TN01 (CTC glass)		HLT HTB040WB085 (HSD glass)	
Antibacterial	No		Yes	
Radio Version	LTE_D03140.10_ B40	LTE_S03140.10_ B40	LTE_D03140.10_ B40	LTE_S03140.10_ B40
SIM Card Slot	SIM 1, SIM 2	SIM 1 (SIM 2 slot closed)	SIM 1, SIM 2	SIM 1 (SIM 2 slot closed)
Others	The same		The same	
Customer declared that the difference between the four EUT is only the Memory, LCD, Antibacterial, Radio Version and the quantity of SIM Card Slot. There are more than one Configure, each one should be applied throughout the compliance test respectively, however, only the worst case (Configure 1, Dual card slots) will be recorded in this report.				

3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2019) Radio Frequency Devices

ANSI C63.10 (2013)

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

4 Information about the FHSS characteristics

4.1 Frequency Hopping System Requirement

Standard requirement:

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(g):

According to Bluetooth Core Specification, the Bluetooth system transmits the packets with the pseudorandom hopping frequency with a continuous data and short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Bluetooth Core Specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to Bluetooth Core Specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

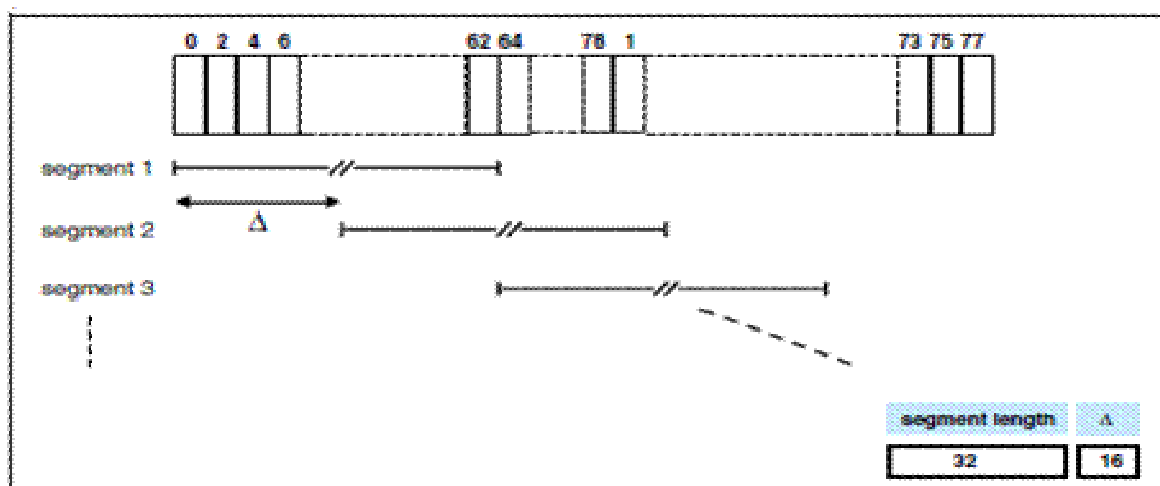
4.2 Pseudorandom Frequency Hopping Sequence

Frequency Hopping Systems. A spread spectrum system in which the carrier is modulated with the coded information in a conventional manner causing a conventional spreading of the RF energy about the frequency carrier. The frequency of the carrier is not fixed but changes at fixed intervals under the direction of a coded sequence. The wide RF bandwidth needed by such a system is not required by spreading of the RF energy about the carrier but rather to accommodate the range of frequencies to which the carrier frequency can hop. The test of a frequency hopping system is that the near term distribution of hops appears random, the long term distribution appears evenly distributed over the hop set, and sequential hops are randomly distributed in both direction and magnitude of change in the hop set.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its pioneer to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

The selection scheme chooses a segment of 32 hop frequencies spanning about 64 MHz and visits these hops in a pseudo-random order. Next, a different 32-hop segment is chosen, etc. In the page, master page response, slave page response, page scan, inquiry, inquiry response and inquiry scan hopping sequences, the same 32-hop segment is used all the time (the segment is selected by the address; different devices will have different paging segments).

When the basic channel hopping sequence is selected, the output constitutes a pseudo-random sequence that slides through the 79 hops. The principle is depicted in the figure below.



Hop selection scheme in CONNECTION state.

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45, etc.

Each frequency used equally on the average by each transmitter.



The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

4.3 Equal Hopping Frequency Use

All Bluetooth units participating in the Pico net are time and hop-synchronized to the channel. Each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event.

4.4 System Receiver Input Bandwidth

Each channel bandwidth is 1MHz. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

4.5 Test Configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

Test Cases	Test Modes
Peak Power Output -Conducted	DH5/2DH5/3DH5
Occupied Bandwidth (20dB)	DH5/2DH5/3DH5
Frequency Separation	DH5/2DH5/3DH5
Time of Occupancy (Dwell Time)	DH5/2DH5/3DH5
Band Edge Compliance	DH5/2DH5/3DH5
Number of Hopping Frequency	DH5/2DH5/3DH5
Spurious RF Conducted Emissions	DH5/2DH5/3DH5
Unwanted Emission	DH5/3DH5
Conducted Emission	3DH5

5 Test Case Results

5.1 Peak Power Output

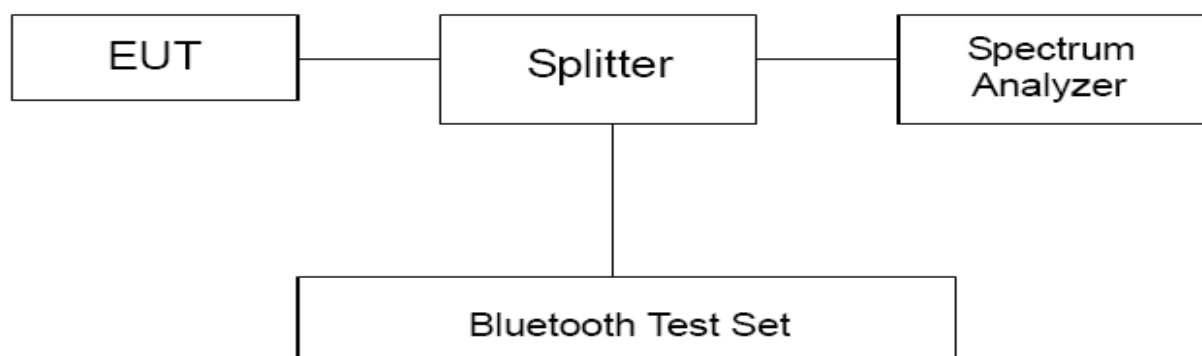
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The EUT is controlled by the Bluetooth test set to ensure max power transmission with proper modulation. The peak detector is used. RBW is set to 2 MHz; VBW is set to 6 MHz. These measurements have been tested at following channels: 0, 39, and 78.

Test Setup



Limits

Rule Part 15.247 (b) (1) specifies that " For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts."

Peak Output Power	≤ 125mW (21dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.44$ dB.

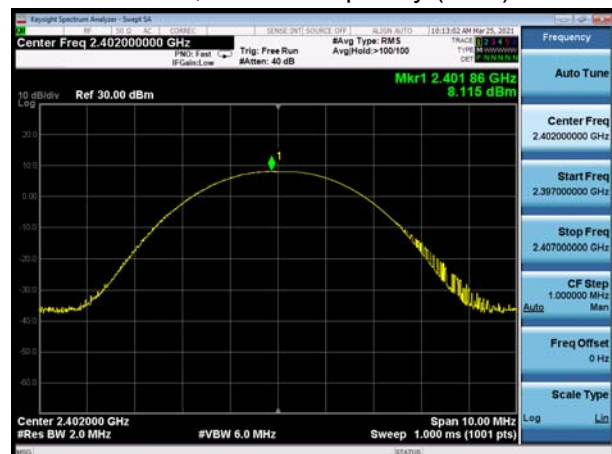
Test Results

Test Mode	T _{on} (ms)	T _(on+off) (ms)	Duty cycle	Duty cycle correction Factor(dB)
DH5	2.90	3.74	0.78	1.10
2DH5	2.90	3.74	0.78	1.10
3DH5	2.90	3.76	0.77	1.13
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.				

Channel	Frequency (MHz)	Peak Output Power (dBm)			Limit (dBm)	Conclusion
		DH5	2DH5	3DH5		
0	2402	8.12	8.21	8.35	21	PASS
39	2441	7.57	8.20	8.29	21	PASS
78	2480	7.20	7.75	7.82	21	PASS

Note: For AFH mode using 20 hopping channels, the maximum output power limit is 21dBm.

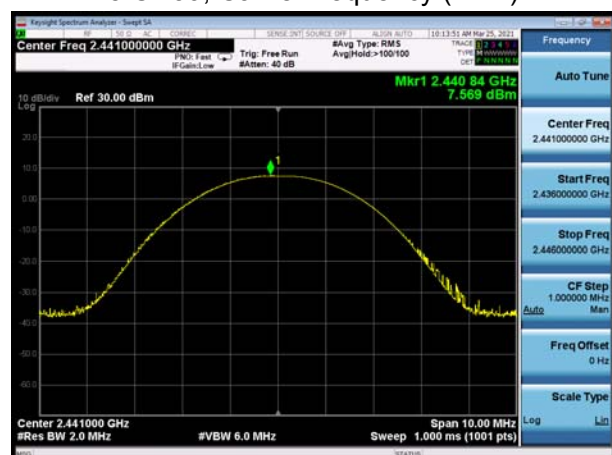
BT DH5 CH0, Carrier frequency (MHz): 2402



BT 2DH5 CH0, Carrier frequency (MHz): 2402



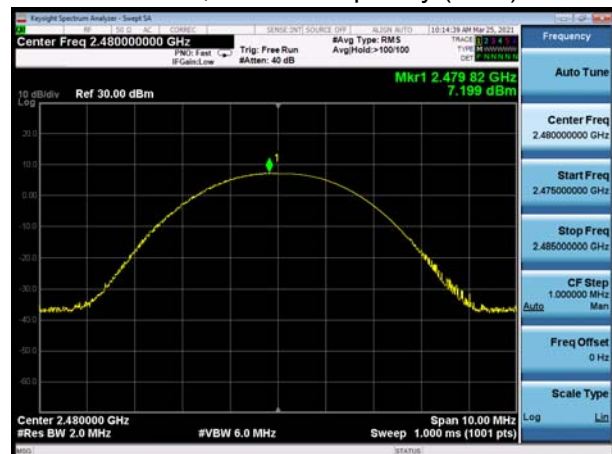
BT DH5 CH39, Carrier frequency (MHz): 2441



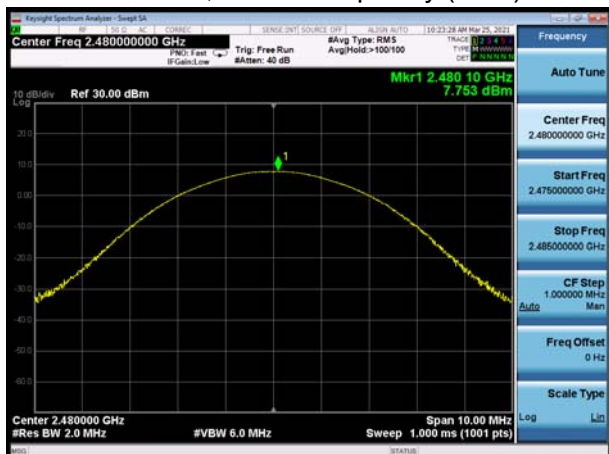
BT 2DH5 CH39, Carrier frequency (MHz): 2441



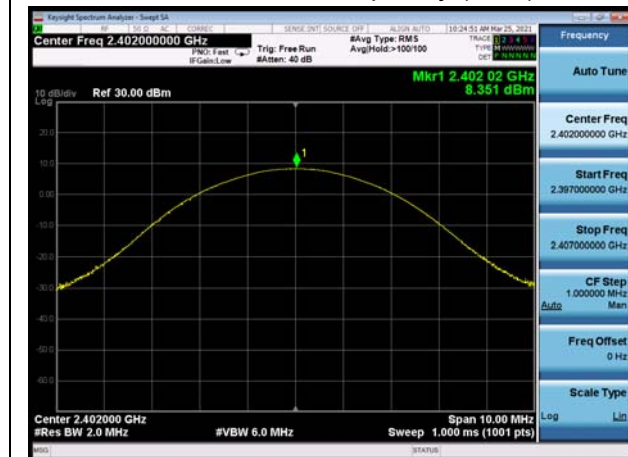
BT DH5 CH78, Carrier frequency (MHz): 2480



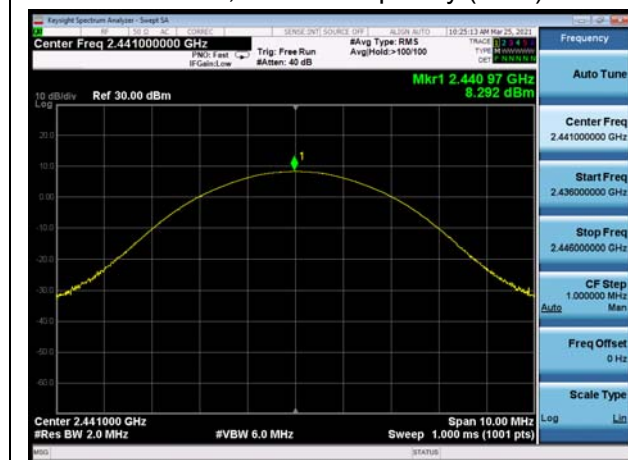
BT 2DH5 CH78, Carrier frequency (MHz): 2480



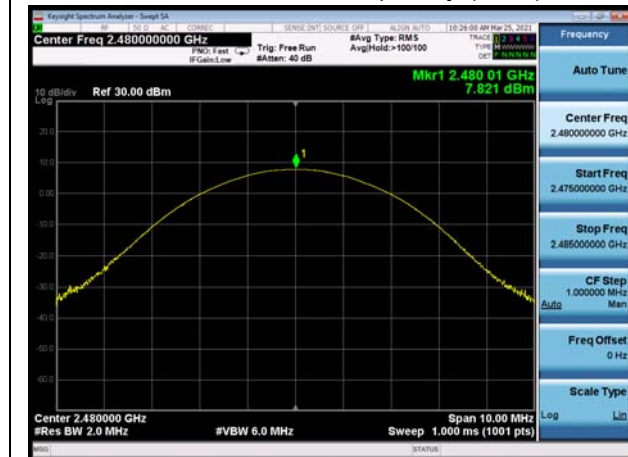
BT 3DH5 CH0, Carrier frequency (MHz): 2402



BT 3DH5 CH39, Carrier frequency (MHz): 2441



BT 3DH5 CH78, Carrier frequency (MHz): 2480



5.2 Occupied Bandwidth (20dB)

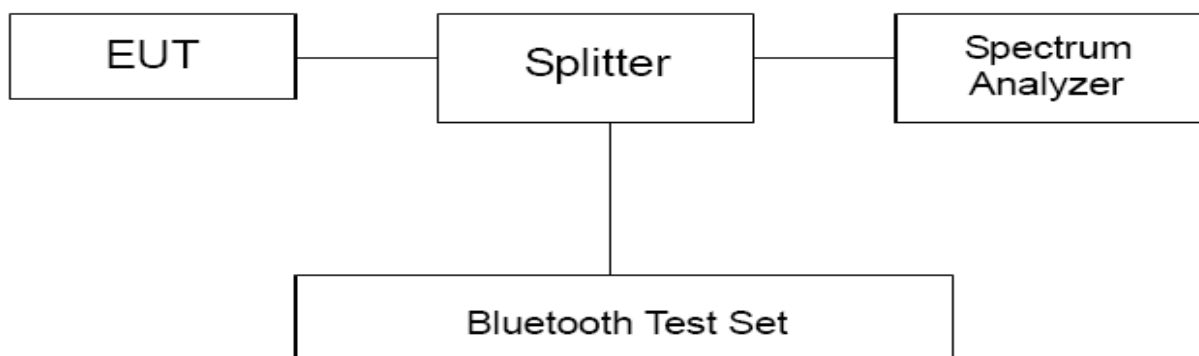
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 30kHz and VBW is set to 100kHz on spectrum analyzer. -20dB occupied bandwidths are recorded.

Test Setup



Limits

No specific occupied bandwidth requirements in part 15.247(a) (1).

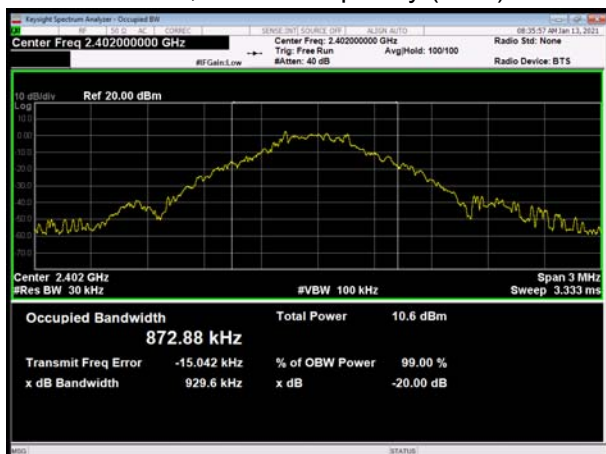
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=936$ Hz.

Test Results

Test Mode		Channel	Frequency (MHz)	99% bandwidth(MHz)	20dB Bandwidth(MHz)
BT	DH5	0	2402	0.8729	0.9296
		39	2441	0.8805	0.9556
		78	2480	0.8943	0.9770
	2DH5	0	2402	1.2931	1.299
		39	2441	1.2473	1.314
		78	2480	1.3043	1.347
	3DH5	0	2402	1.2702	1.317
		39	2441	1.2582	1.297
		78	2480	1.3022	1.313

BT DH5 CH0, Carrier frequency (MHz): 2402



BT 2DH5 CH0, Carrier frequency (MHz): 2402



BT DH5 CH39, Carrier frequency (MHz): 2441



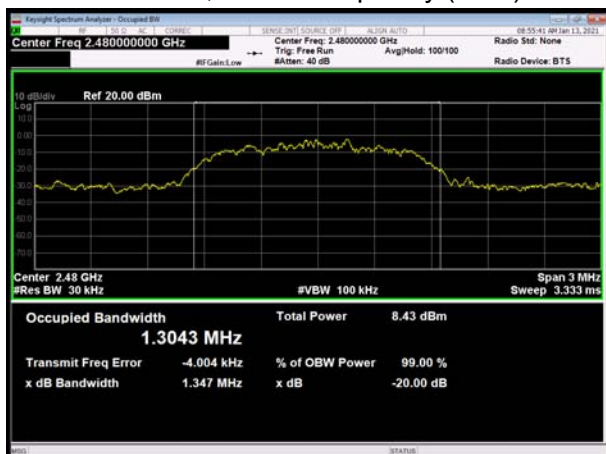
BT 2DH5 CH39, Carrier frequency (MHz): 2441



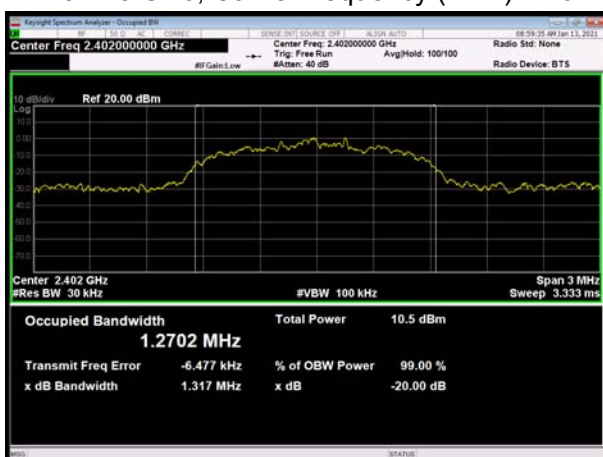
BT DH5 CH78, Carrier frequency (MHz): 2480



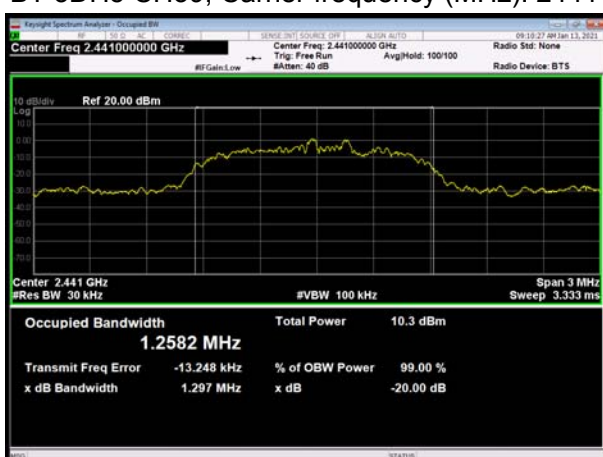
BT 2DH5 CH78, Carrier frequency (MHz): 2480



BT 3DH5 CH0, Carrier frequency (MHz): 2402



BT 3DH5 CH39, Carrier frequency (MHz): 2441



BT 3DH5 CH78, Carrier frequency (MHz): 2480



5.3 Frequency Separation

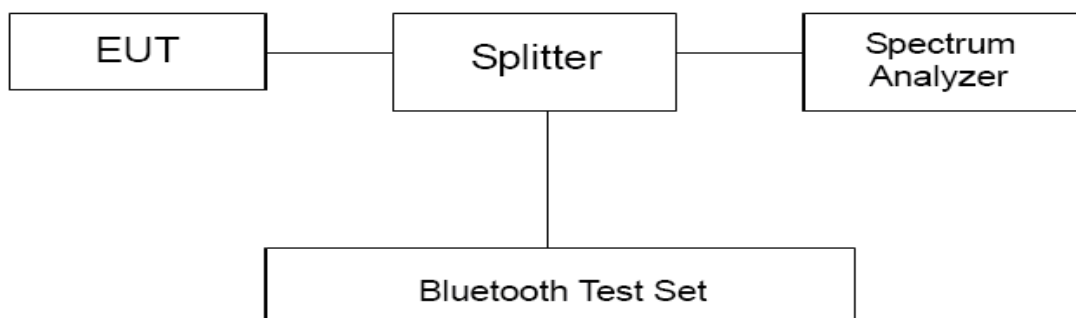
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 30 kHz and VBW is set to 100 kHz on spectrum analyzer. Set EUT on Hopping on mode.

Test setup



Limits

Rule Part 15.247(a)(1) specifies that “Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. ”

Note: The value of two-thirds of 20 dB bandwidth is always greater than 25 kHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=936$ Hz.

Test Results:

Test Mode	Carrier frequency (MHz)	Carrier frequency separation(MHz)	20dB Bandwidth(MHz)	Limit (MHz)	Conclusion
DH5	2402	999	0.9296	0.620	PASS
	2441	999	0.9556	0.637	PASS
	2480	999	0.9770	0.651	PASS
2DH5	2402	999	1.299	0.866	PASS
	2441	999	1.314	0.876	PASS
	2480	999	1.347	0.898	PASS
3DH5	2402	999	1.317	0.878	PASS
	2441	1002	1.297	0.865	PASS
	2480	999	1.313	0.875	PASS
Note: The limit is two-thirds of 20 dB bandwidth.					

BT DH5 CH0, Carrier frequency (MHz): 2402



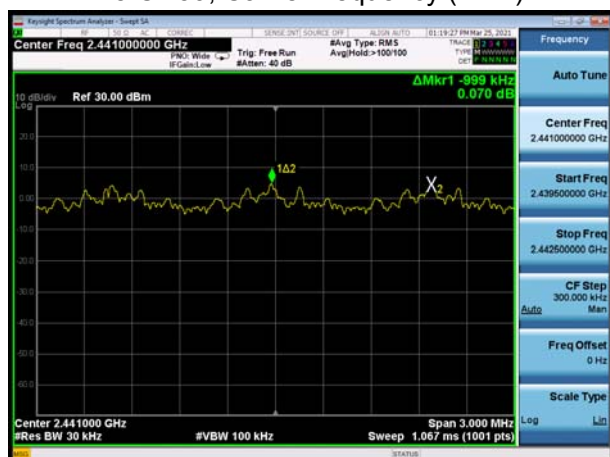
BT 2DH5 CH0, Carrier frequency (MHz): 2402



BT DH5 CH39, Carrier frequency (MHz): 2441



BT 2DH5 CH39, Carrier frequency (MHz): 2441



BT DH5 CH78, Carrier frequency (MHz): 2480



BT 2DH5 CH78, Carrier frequency (MHz): 2480





BT 3DH5 CH0, Carrier frequency (MHz): 2402



BT 3DH5 CH39, Carrier frequency (MHz): 2441



BT 3DH5 CH78, Carrier frequency (MHz): 2480



5.4 Time of Occupancy (Dwell Time)

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

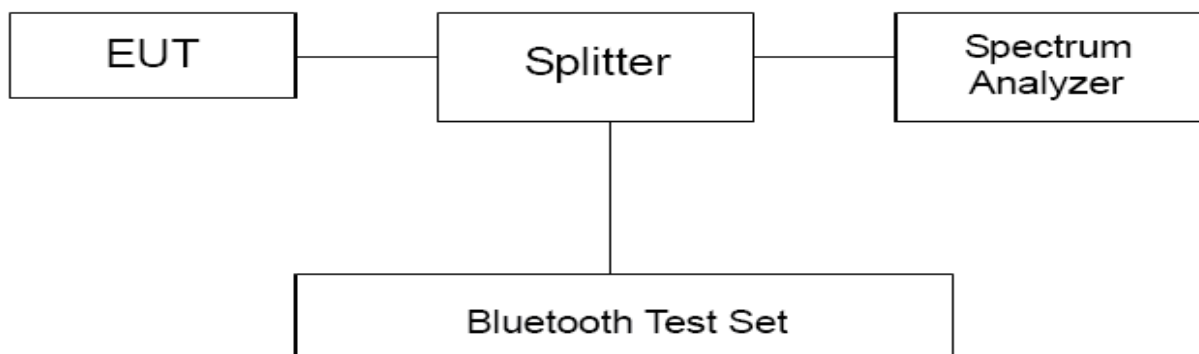
The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 1MHz and VBW is set to 1MHz on spectrum analyzer. The dwell time is calculated by:

Dwell time = time slot length * hop rate * 0.4s with:

In normal mode, The selected EUT Packet type uses a slot type of DH5 packet and a hopping rate of 1600(ch*hop/s) for all channels. So the final hopping rate for all channel is 1600/5=320(ch*hop/s)

In AFH mode, The selected EUT Packet type uses a slot type of DH5 packet and a hopping rate of 800(ch*hop/s) for all channels. So the final hopping rate for all channel is 800/5=160(ch*hop/s)

Test Setup



Limits

Rule Part15.247(a) specifies that " Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed."

Dwell time	≤ 400ms
------------	---------

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$.

Requirements	Uncertainty					
Dwell Time	DH5	$U=0.70\text{ms}$	2DH5	$U=0.70\text{ms}$	3DH5	$U=0.70\text{ms}$

Test Results:

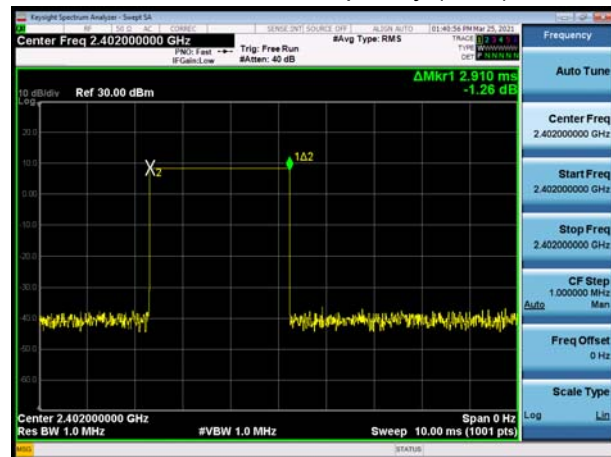
In normal mode:

Test Mode	Channel	hop rate (1/s)	Time slot length(ms)	Dwell time (ms)	Limit (ms)	Conclusion
DH5	0	320	2.91	372.48	400	PASS
	39	320	2.91	372.48	400	PASS
	78	320	2.90	371.20	400	PASS
2DH5	0	320	2.90	371.20	400	PASS
	39	320	2.90	371.20	400	PASS
	78	320	2.90	371.20	400	PASS
3DH5	0	320	2.90	371.20	400	PASS
	39	320	2.89	369.92	400	PASS
	78	320	2.90	371.20	400	PASS
Note: Dwell time = time slot length * hop rate * 0.4s						

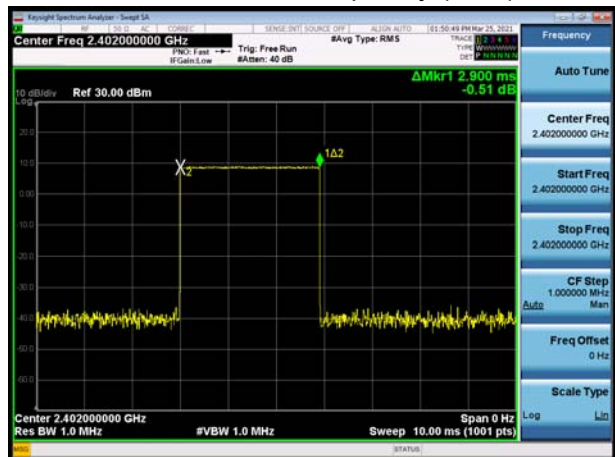
In AFH mode:

Test Mode	Channel	hop rate (1/s)	Time slot length(ms)	Dwell time (ms)	Limit (ms)	Conclusion
DH5	0	160	2.91	186.24	400	PASS
	39	160	2.91	186.24	400	PASS
	78	160	2.90	185.60	400	PASS
2DH5	0	160	2.90	185.60	400	PASS
	39	160	2.90	185.60	400	PASS
	78	160	2.90	185.60	400	PASS
3DH5	0	160	2.90	185.60	400	PASS
	39	160	2.89	184.96	400	PASS
	78	160	2.90	185.60	400	PASS
Note: Dwell time = time slot length * hop rate * 0.4s						

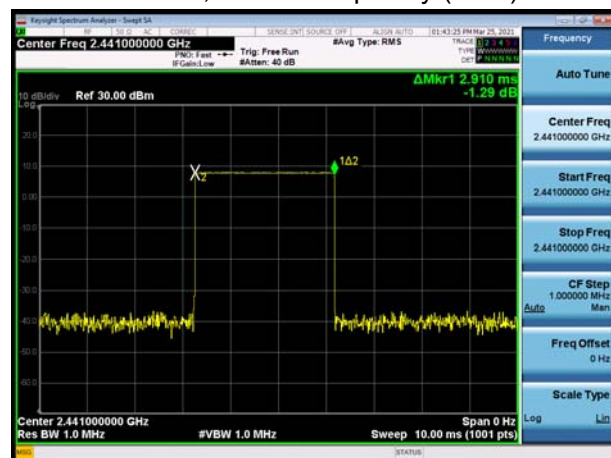
BT DH5 CH0, Carrier frequency (MHz): 2402



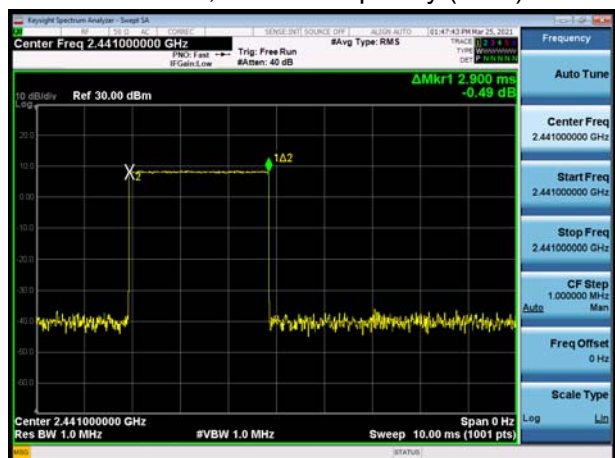
BT 2DH5 CH0, Carrier frequency (MHz): 2402



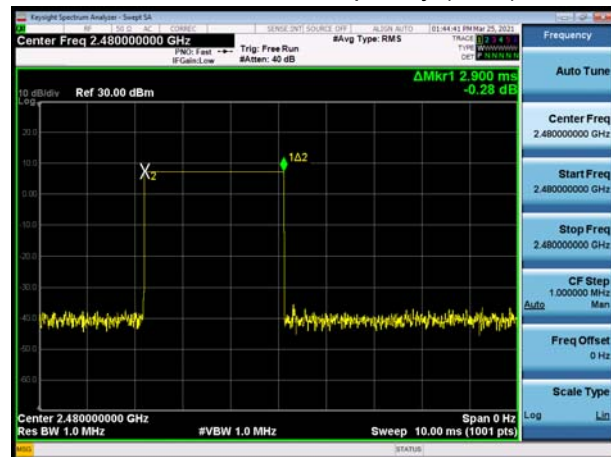
BT DH5 CH39, Carrier frequency (MHz): 2441



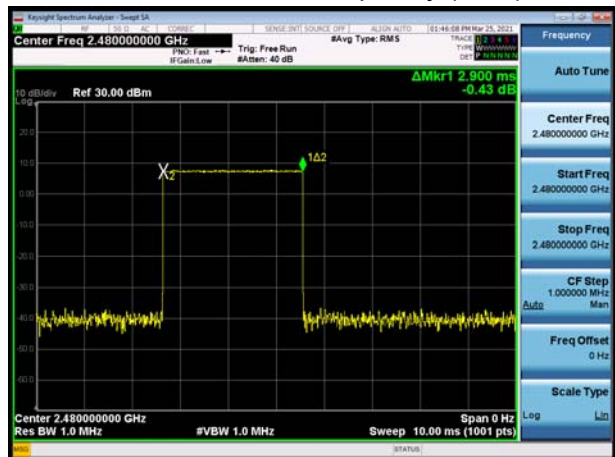
BT 2DH5 CH39, Carrier frequency (MHz): 2441



BT DH5 CH78, Carrier frequency (MHz): 2480

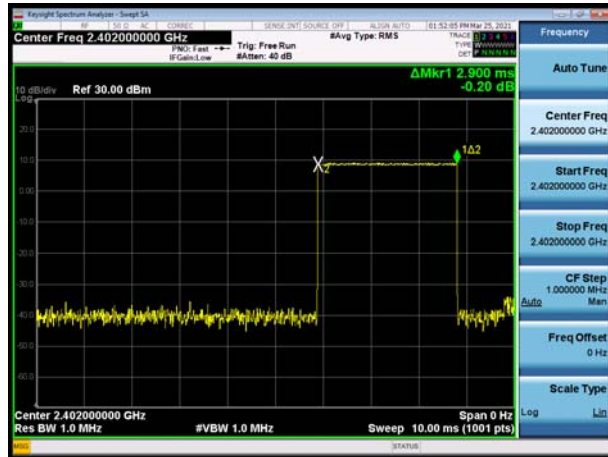


BT 2DH5 CH78, Carrier frequency (MHz): 2480

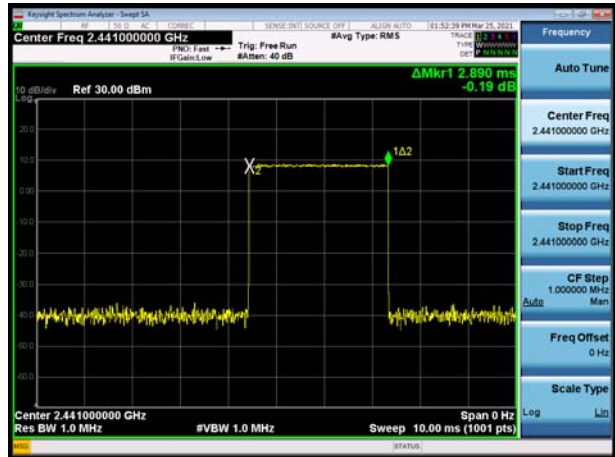




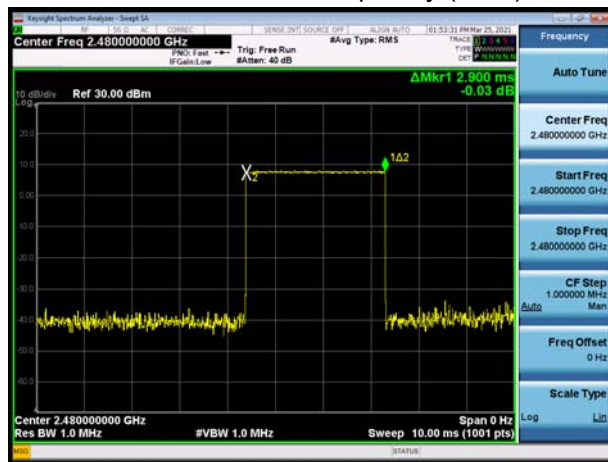
BT 3DH5 CH0, Carrier frequency (MHz): 2402



BT 3DH5 CH39, Carrier frequency (MHz): 2441



BT 3DH5 CH78, Carrier frequency (MHz): 2480



5.5 Band Edge Compliance

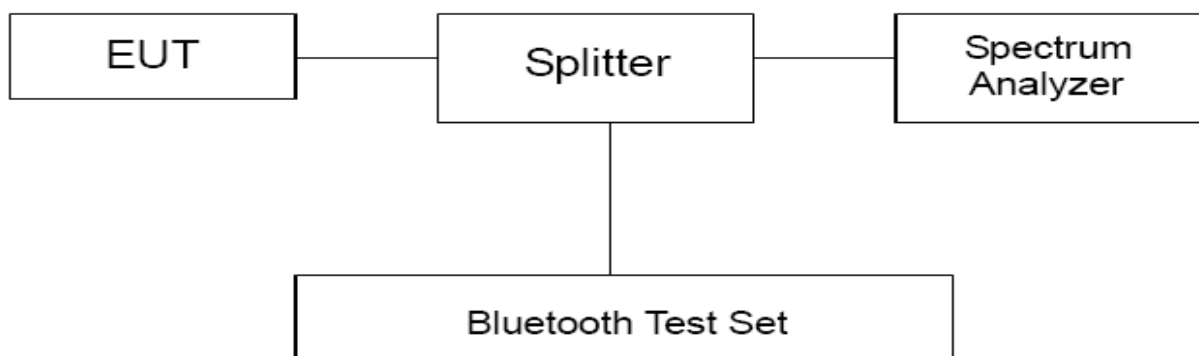
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The lowest and highest channels were measured. The peak detector is used. RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. EUT test for Hopping On mode and Hopping Off mode.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits.”

Measurement Uncertainty

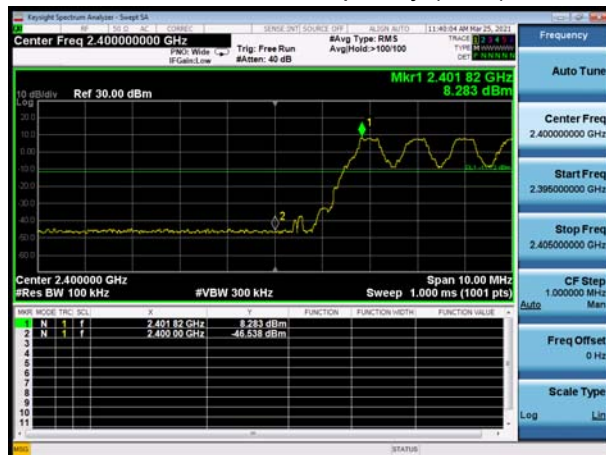
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

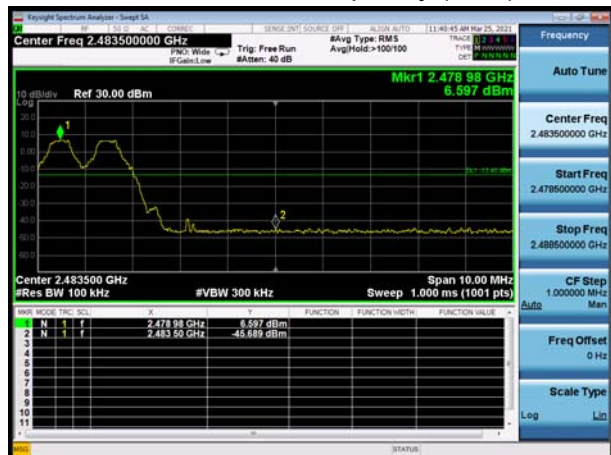
Test Results

Hopping On

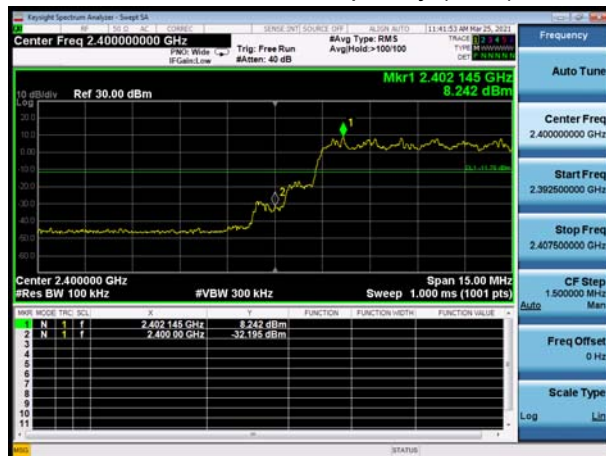
BT DH5 CH0, Carrier frequency (MHz): 2402



BT DH5 CH78, Carrier frequency (MHz): 2480



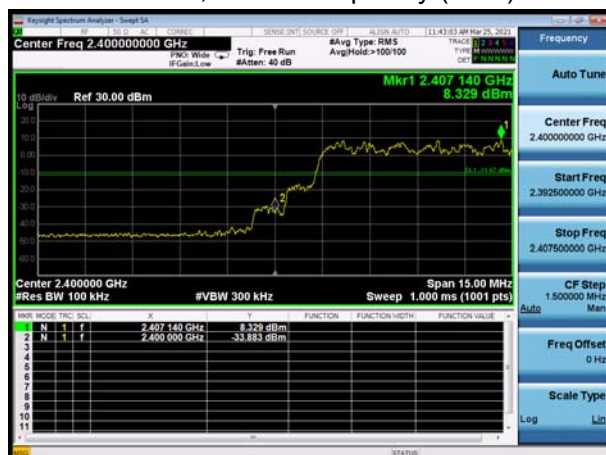
BT 2DH5 CH0, Carrier frequency (MHz): 2402



BT 2DH5 CH78, Carrier frequency (MHz): 2480



BT 3DH5 CH0, Carrier frequency (MHz): 2402



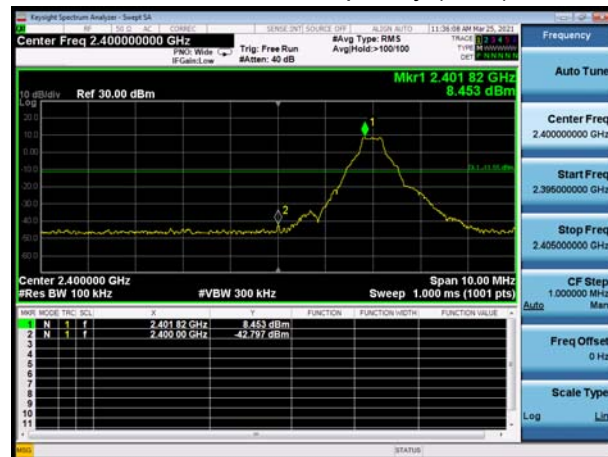
BT 3DH5 CH78, Carrier frequency (MHz): 2480



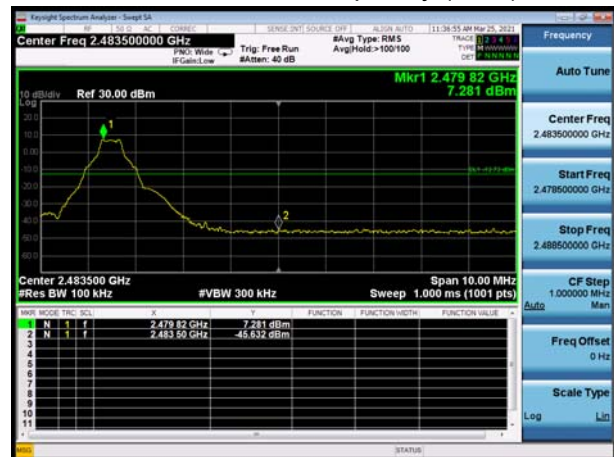


Hopping Off

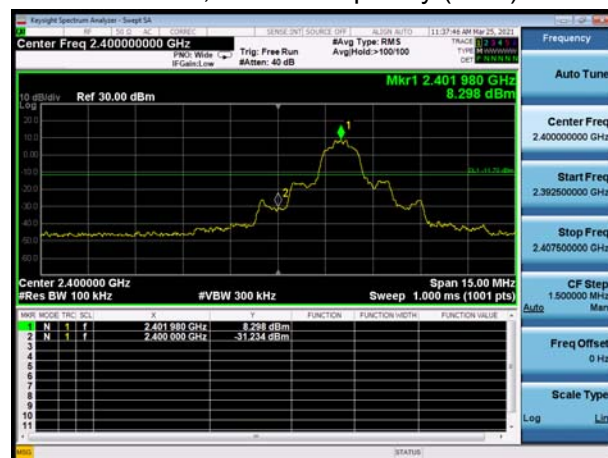
BT DH5 CH0, Carrier frequency (MHz): 2402



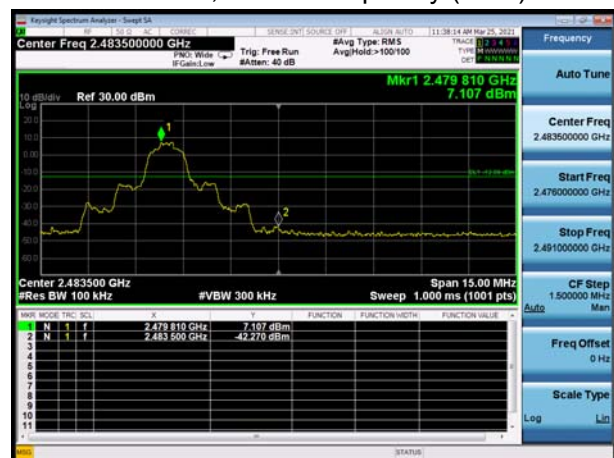
BT DH5 CH78, Carrier frequency (MHz): 2480



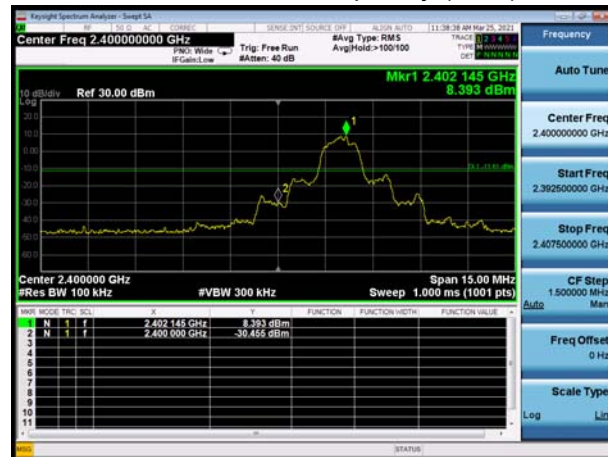
BT 2DH5 CH0, Carrier frequency (MHz): 2402



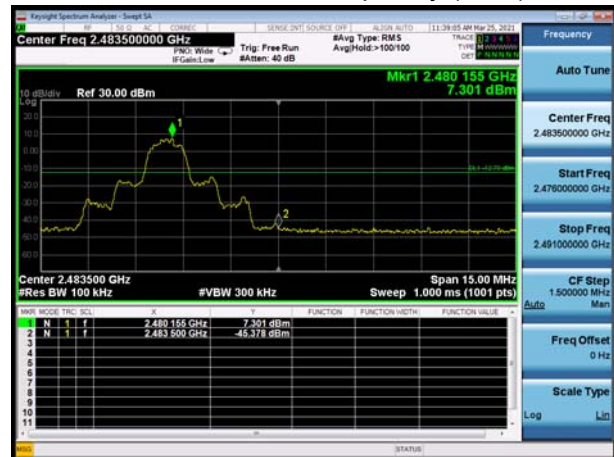
BT 2DH5 CH78, Carrier frequency (MHz): 2480



BT 3DH5 CH0, Carrier frequency (MHz): 2402



BT 3DH5 CH78, Carrier frequency (MHz): 2480



5.6 Number of hopping Frequency

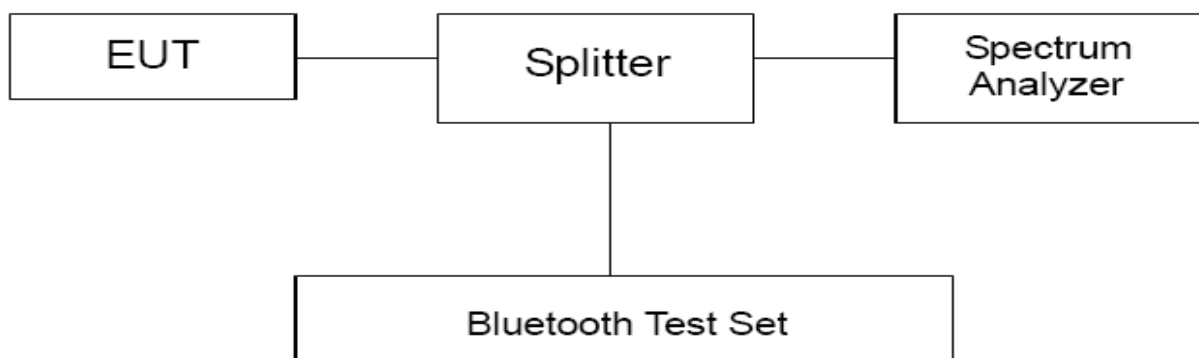
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 100kHz and VBW is set to 300kHz on spectrum analyzer. Set EUT on Hopping on mode.

Test setup



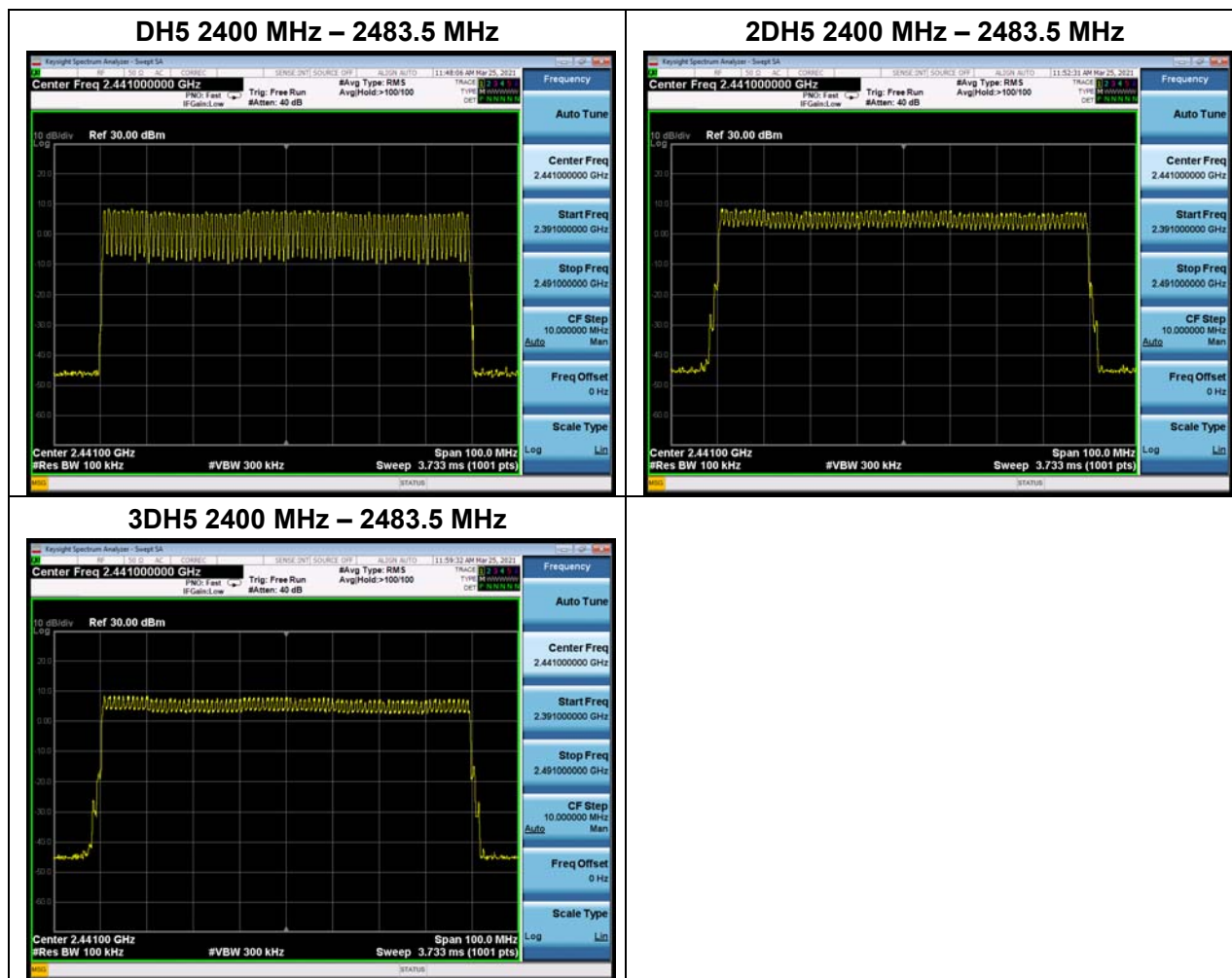
Limits

Rule Part 15.247(a) (1) (iii) specifies that" Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels."

Limits	≥ 15 channels
--------	---------------

Test Results:

Test Mode		Number of hopping channels	conclusion
BT	DH5	79	PASS
	2DH5	79	PASS
	3DH5	79	PASS



5.7 Spurious RF Conducted Emissions

Ambient condition

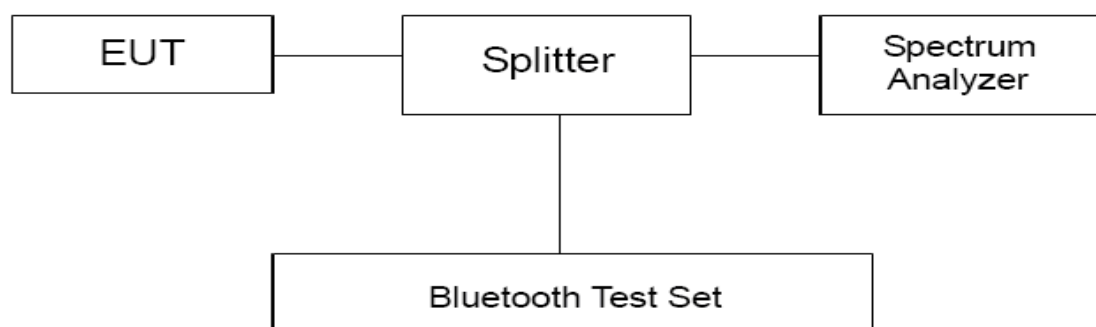
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW 100kHz and VBW 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) specifies that "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."

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
DH5	2402	7.44	-12.56
	2441	7.15	-12.85
	2480	6.67	-13.33
2DH5	2402	7.25	-12.75
	2441	6.97	-13.03
	2480	6.09	-13.91
3DH5	2402	6.23	-13.77
	2441	6.20	-13.80
	2480	6.57	-13.43

Measurement Uncertainty

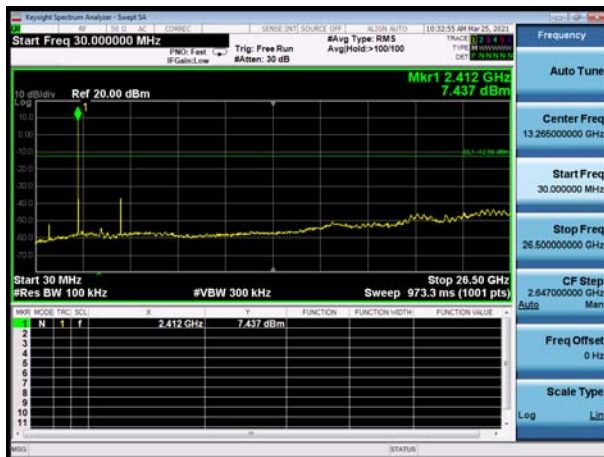
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

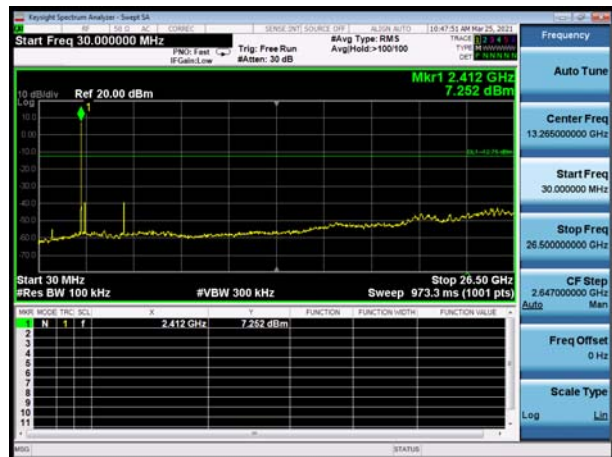
Test Results:

The signal beyond the limit is carrier.

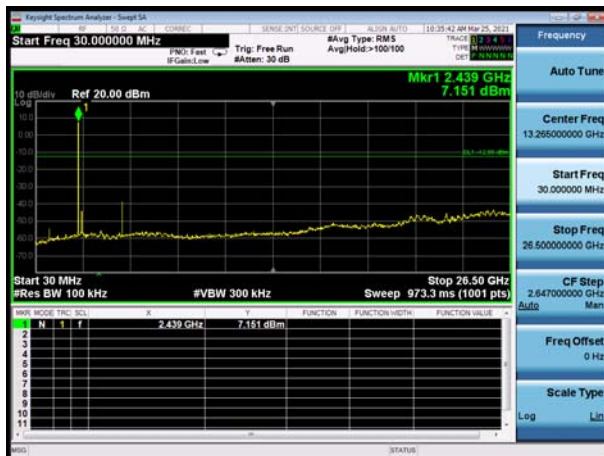
DH5-CH0 30MHz to 26.5GHz



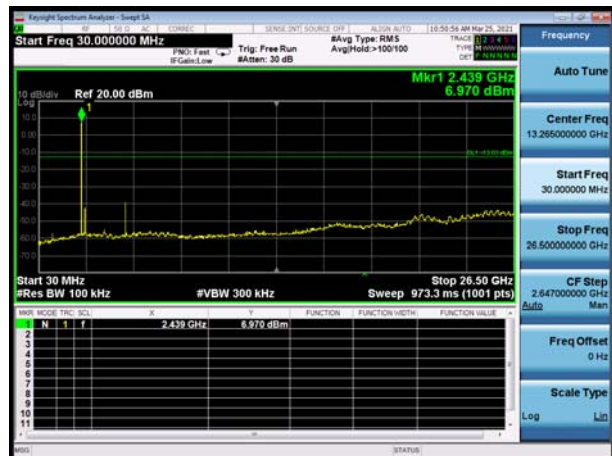
2DH5-CH0 30MHz to 26.5GHz



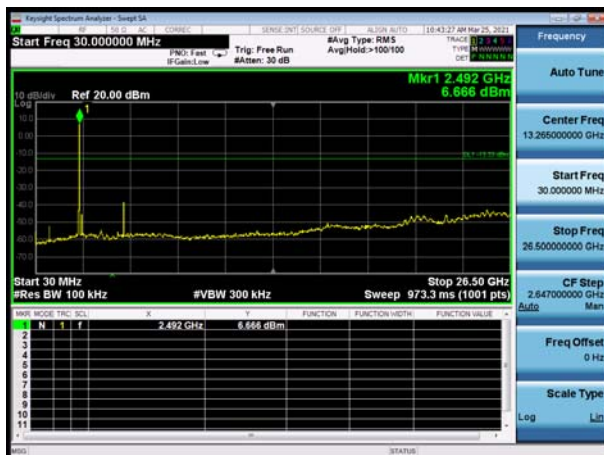
DH5-CH39 30MHz to 26.5GHz



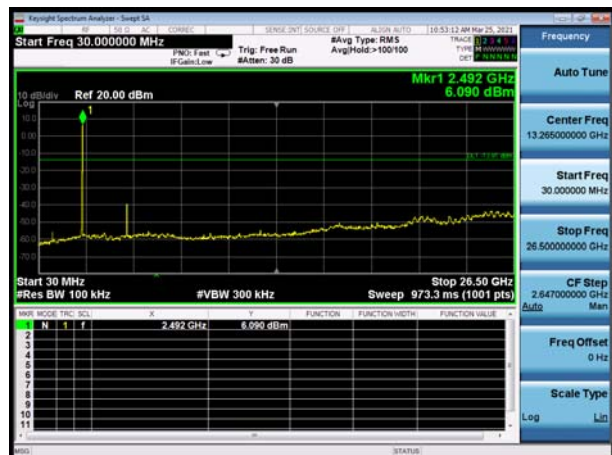
2DH5-CH39 30MHz to 26.5GHz



DH5-CH78 30MHz to 26.5GHz

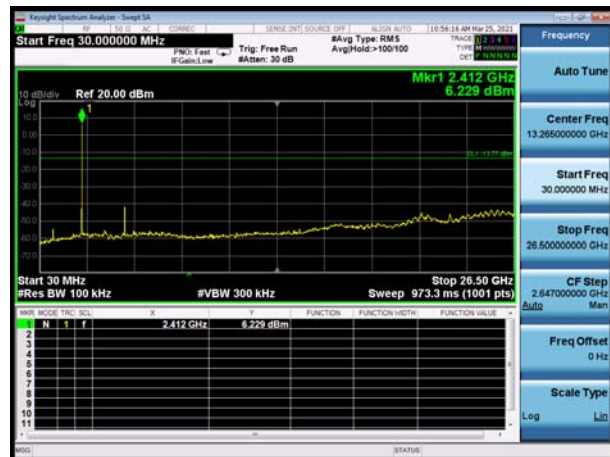


2DH5-CH78 30MHz to 26.5GHz

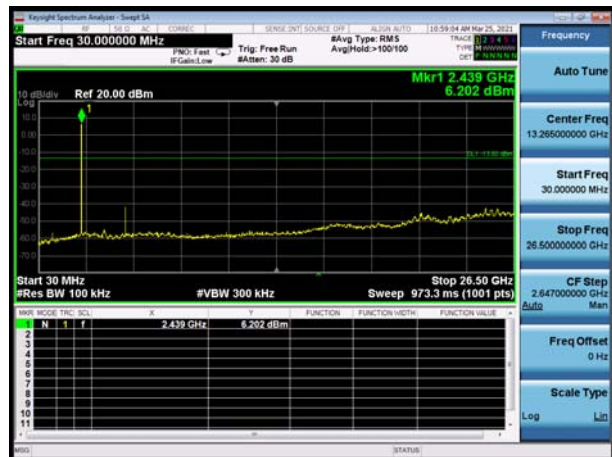




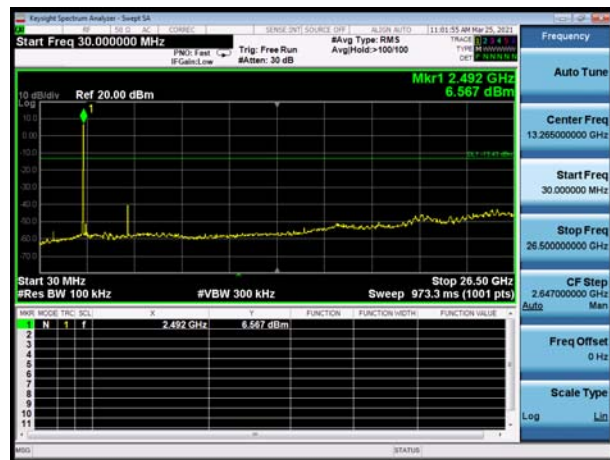
3DH5-CH0 30MHz to 26.5GHz



3DH5-CH39 30MHz to 26.5GHz



3DH5-CH78 30MHz to 26.5GHz



5.8 Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9KHz, VBW=30KHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

detector; The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

The dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.

If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak- average correction factor, derived from the appropriate duty cycle calculation.

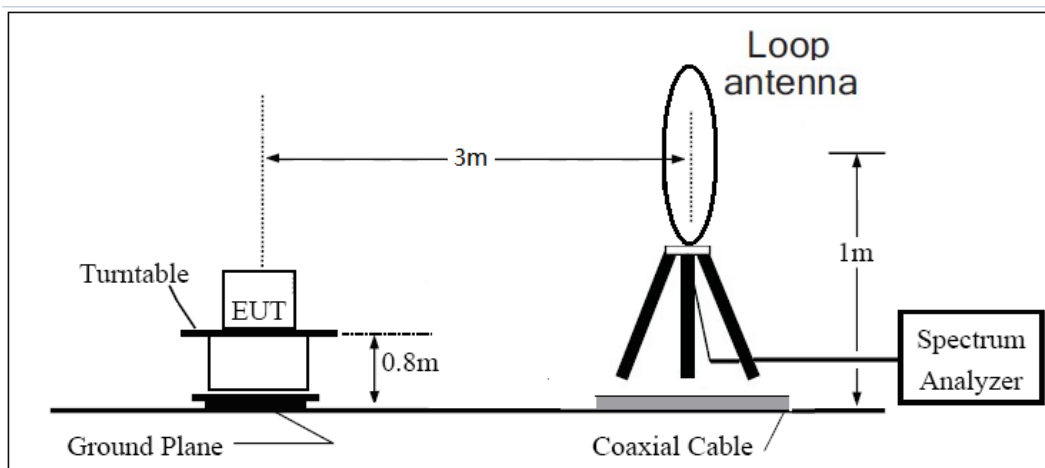
This setting method can refer to **KDB 558074 D01**.

This mode was measured in the following mode: EUT with cradle and EUT without cradle. The worst emission was found in EUT with cradle mode and the worst case was recorded.

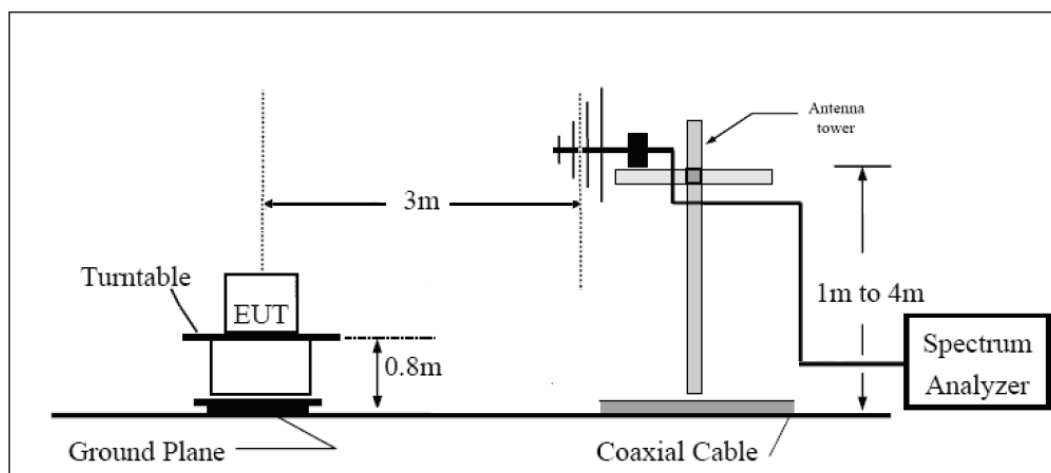
The test is in transmitting mode.

Test setup

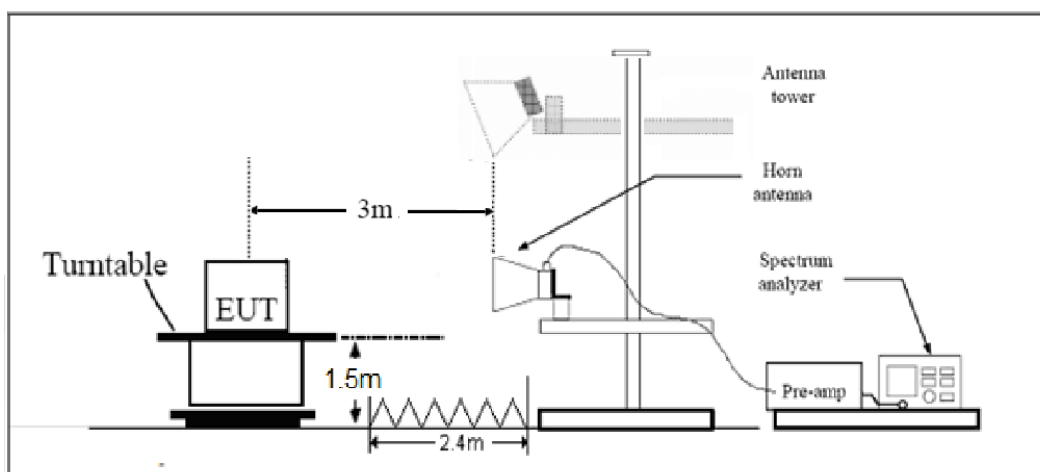
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Limits

Rule Part 15.247(d) specifies that “In addition, radiated 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) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74dBuV/m

Average Limit=54dBuV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

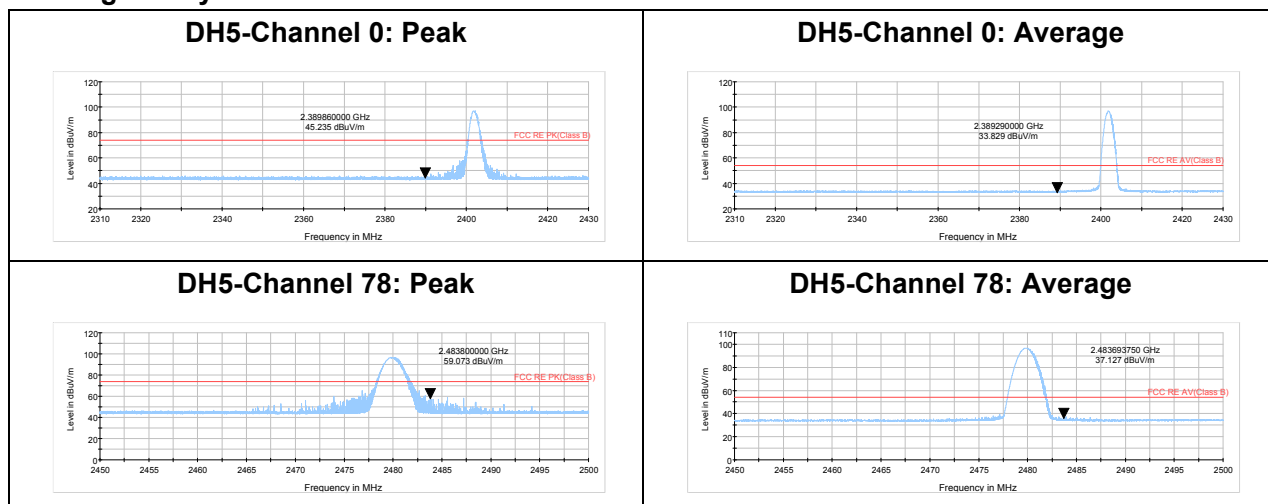
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

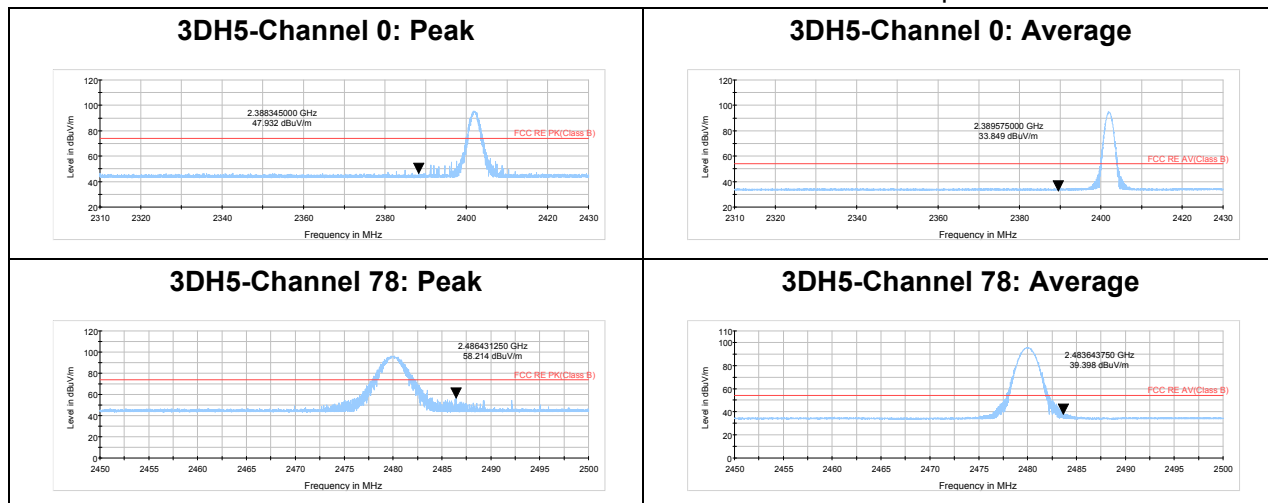
Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

Test Results:

The signal beyond the limit is carrier.



The bandage was performed in all EDR mode(2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.



Result of RE

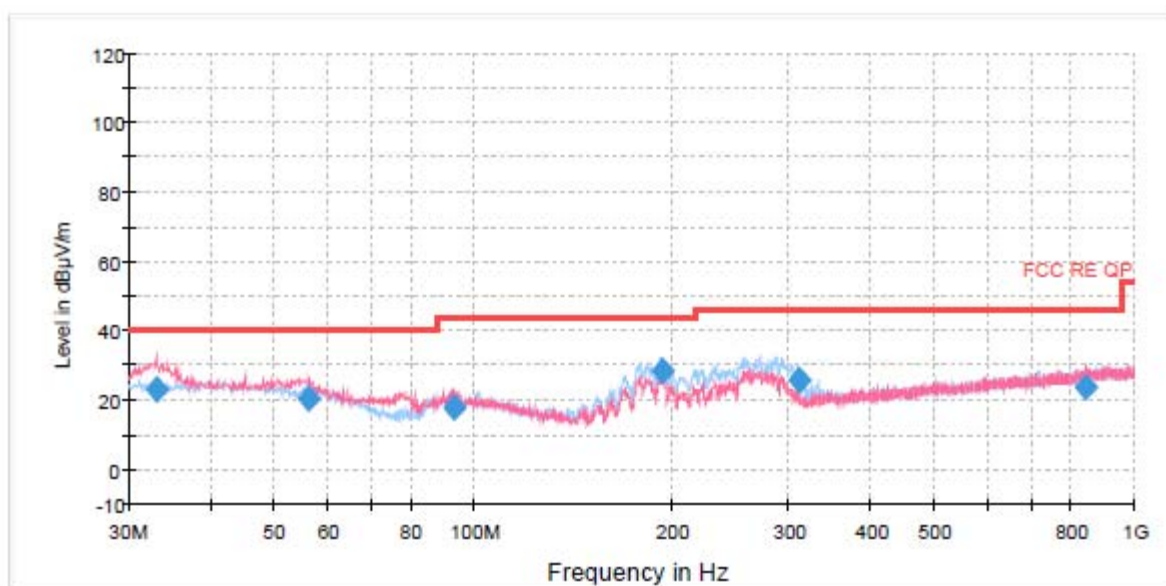
Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz -26.5GHz are more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, BT 3DH5 Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:

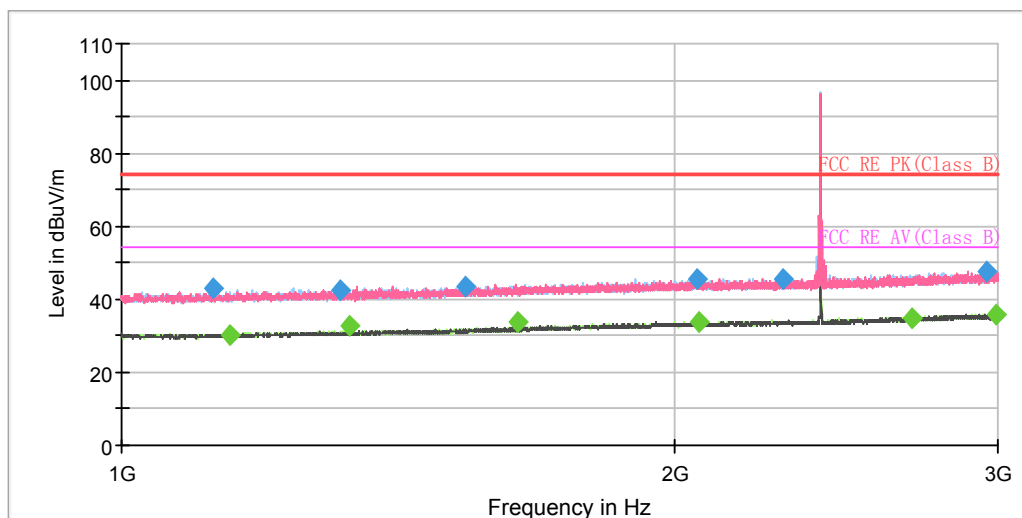


Radiates Emission from 30MHz to 1GHz

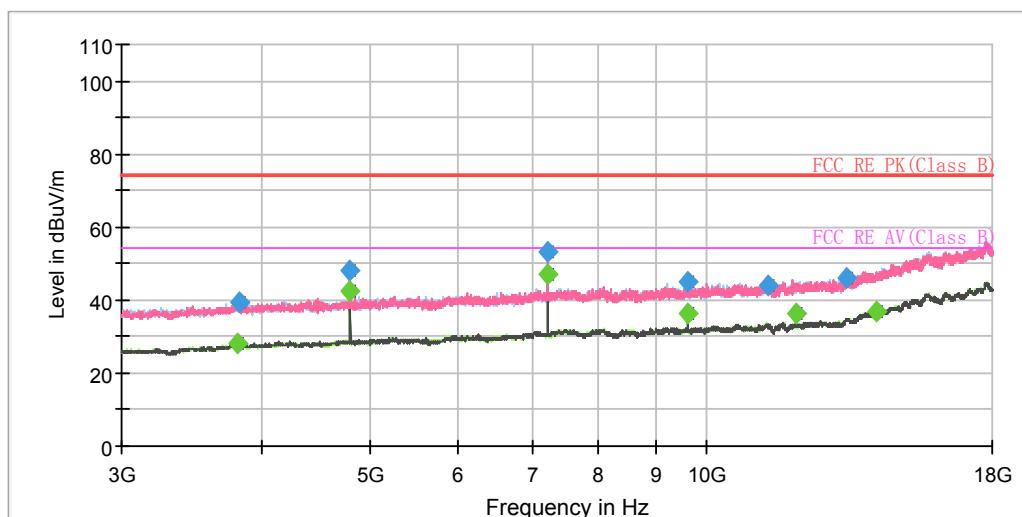
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
33.031250	23.3	114.0	V	0.0	-13.9	16.7	40.0
56.432500	20.6	100.0	V	297.0	-14.1	19.4	40.0
93.171250	17.8	125.0	V	22.0	-18.2	25.7	43.5
192.838750	28.6	100.0	H	274.0	-19.1	14.9	43.5
310.815000	25.5	100.0	H	174.0	-17.2	20.5	46.0
849.165000	23.3	100.0	V	87.0	-7.6	22.7	46.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
2. Margin = Limit – Quasi-Peak

DH5-Channel 0



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

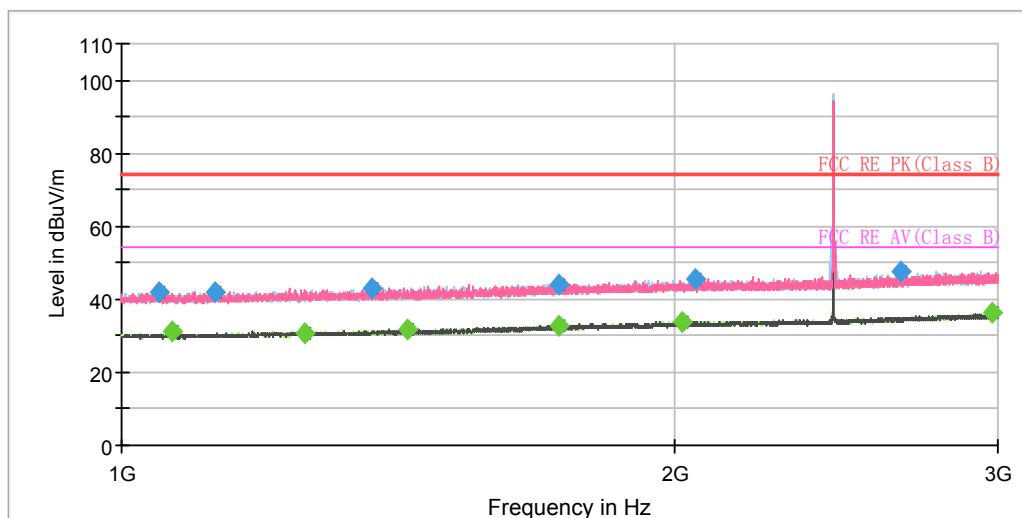


Radiates Emission from 3GHz to 18GHz

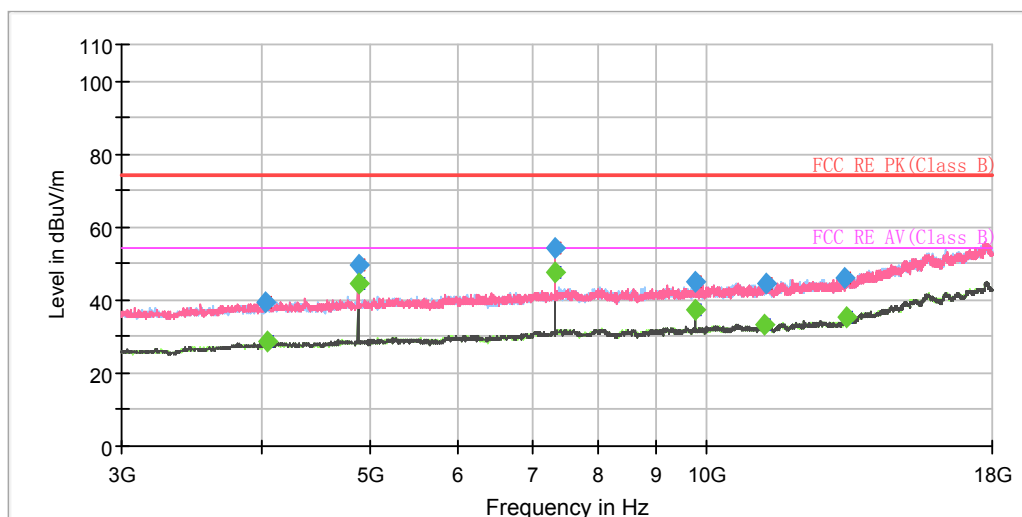
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1121.000000	43.21	---	74.00	30.79	200.0	V	37.0	-8.2
1144.500000	---	30.29	54.00	23.71	200.0	V	53.0	-8.1
1316.000000	42.41	---	74.00	31.59	200.0	H	141.0	-7.2
1331.000000	---	32.87	54.00	21.13	200.0	V	142.0	-7.1
1539.500000	43.65	---	74.00	30.35	200.0	V	184.0	-6.0
1645.000000	---	33.59	54.00	20.41	200.0	V	276.0	-5.3
2056.250000	45.44	---	74.00	28.56	100.0	H	132.0	-3.1
2061.000000	---	33.71	54.00	20.29	200.0	H	162.0	-3.1
2290.500000	45.70	---	74.00	28.30	100.0	H	27.0	-2.2
2693.000000	---	35.03	54.00	18.97	100.0	V	186.0	-0.5
2961.500000	47.44	---	74.00	26.56	200.0	H	88.0	0.9
2995.000000	---	35.81	54.00	18.19	100.0	H	336.0	1.1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

DH5-Channel 39



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

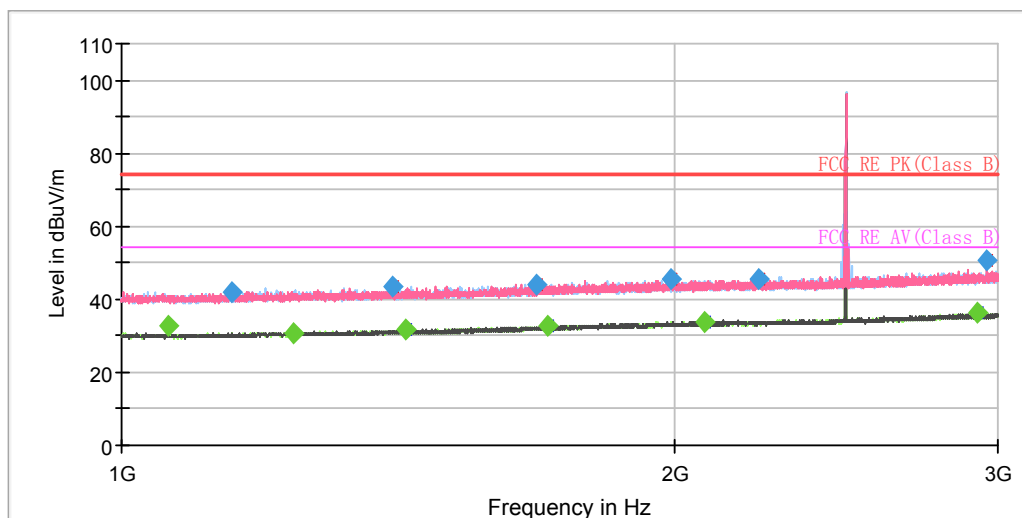


Radiates Emission from 3GHz to 18GHz

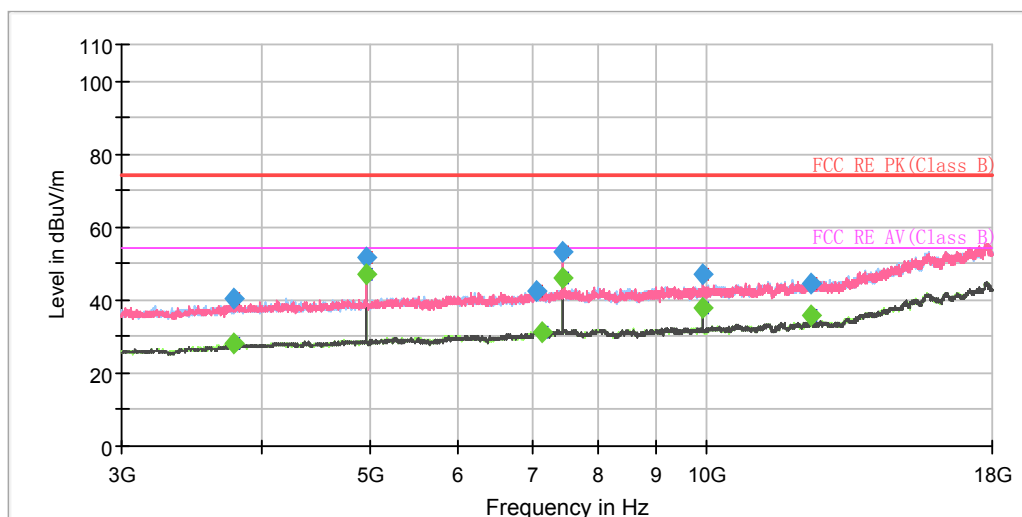
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1048.250000	41.76	---	74.00	32.24	200.0	H	264.0	-8.6
1066.000000	---	31.07	54.00	22.93	200.0	V	65.0	-8.5
1124.000000	41.95	---	74.00	32.05	100.0	V	139.0	-8.2
1258.000000	---	30.72	54.00	23.28	200.0	H	162.0	-7.5
1370.250000	43.21	---	74.00	30.79	200.0	V	295.0	-6.9
1430.500000	---	31.53	54.00	22.47	100.0	H	72.0	-6.6
1729.000000	44.14	---	74.00	29.86	200.0	V	343.0	-4.9
1729.000000	---	32.68	54.00	21.32	100.0	H	269.0	-4.9
2018.750000	---	33.90	54.00	20.10	100.0	V	0.0	-3.3
2050.750000	45.42	---	74.00	28.58	200.0	H	78.0	-3.1
2658.750000	47.49	---	74.00	26.51	100.0	V	349.0	-0.7
2981.250000	---	36.10	54.00	17.90	200.0	V	214.0	1.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

DH5-Channel 78



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



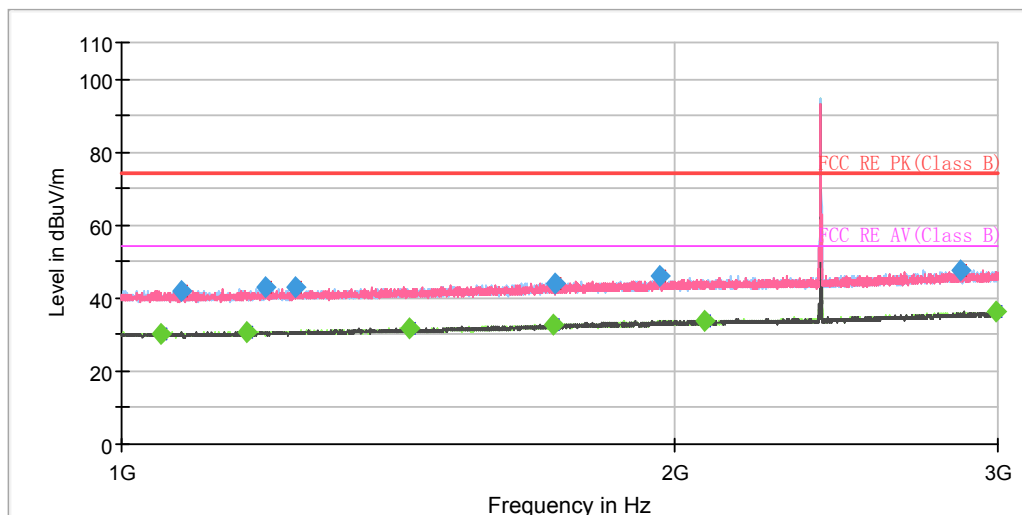
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1059.750000	---	32.76	54.00	21.24	200.0	V	8.0	-8.5
1148.750000	42.06	---	74.00	31.94	100.0	V	8.0	-8.1
1241.750000	---	30.70	54.00	23.30	200.0	V	0.0	-7.6
1404.500000	43.57	---	74.00	30.43	100.0	V	267.0	-6.7
1427.000000	---	31.56	54.00	22.44	200.0	V	236.0	-6.6
1683.750000	44.16	---	74.00	29.84	200.0	V	139.0	-5.1
1705.250000	---	32.79	54.00	21.21	200.0	V	0.0	-5.0
1992.500000	45.34	---	74.00	28.66	100.0	V	337.0	-3.4
2078.250000	---	33.75	54.00	20.25	200.0	V	17.0	-3.1
2222.500000	45.74	---	74.00	28.26	200.0	H	314.0	-2.6
2922.250000	---	36.26	54.00	17.74	100.0	H	17.0	0.6
2958.500000	50.89	---	74.00	23.11	200.0	V	144.0	0.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

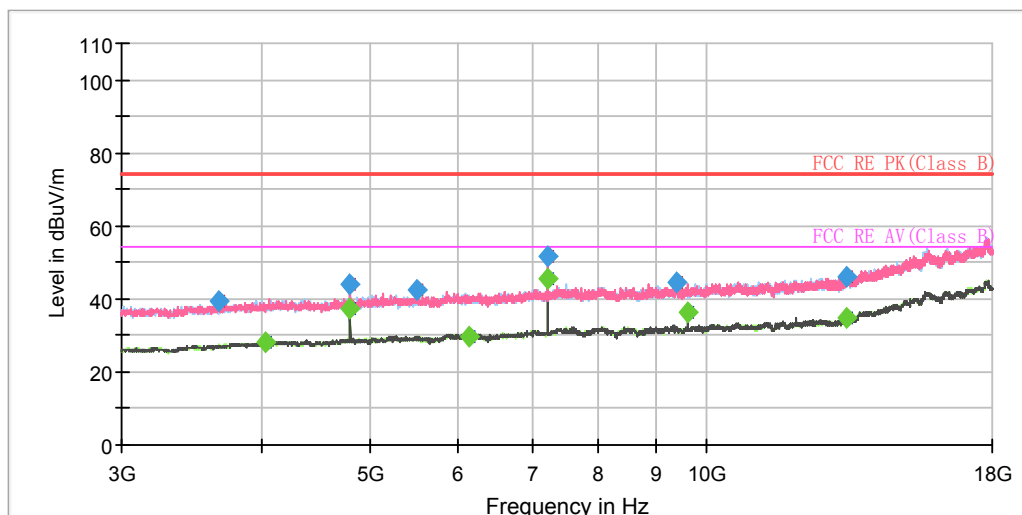
The Radiates Emission was performed in all EDR mode(2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

3DH5-Channel 0



Note: The signal beyond the limit is carrier.

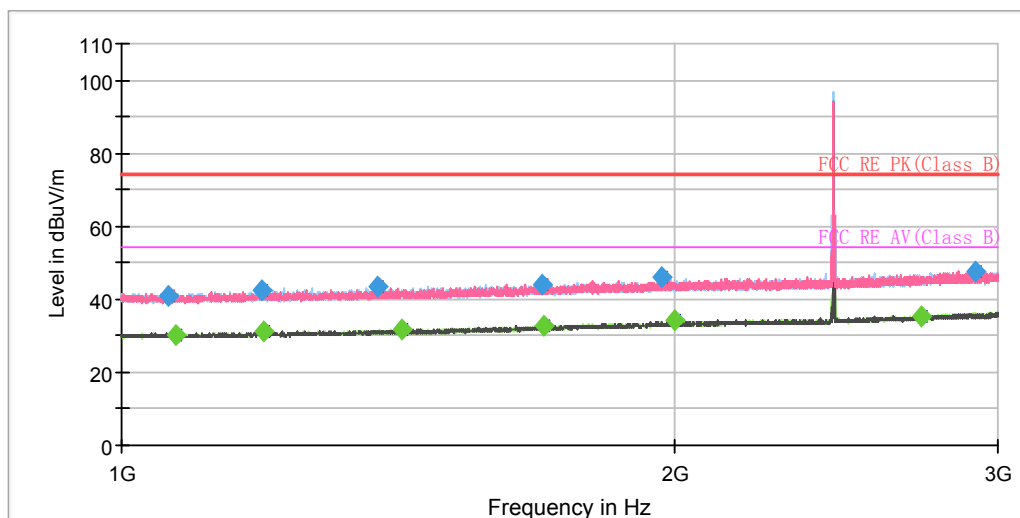
Radiates Emission from 1GHz to 3GHz



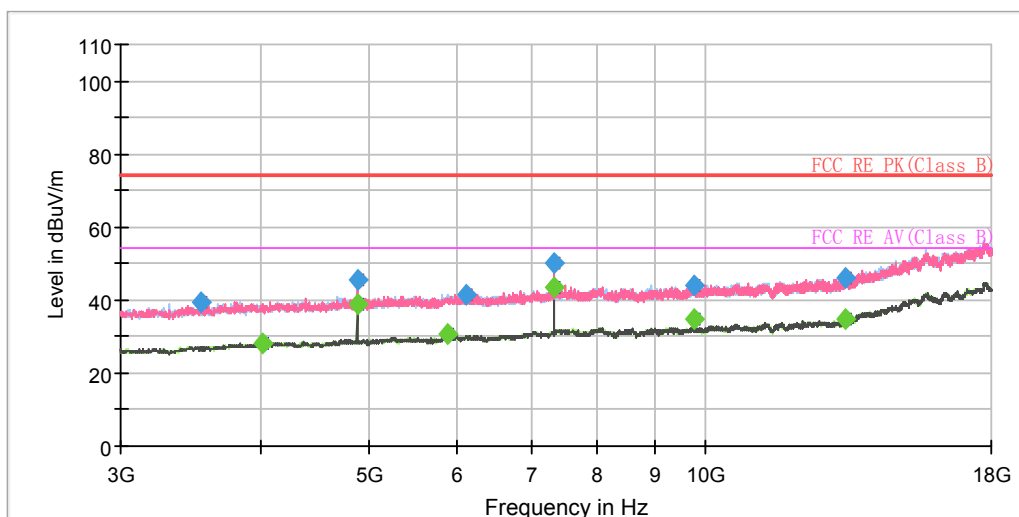
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1050.250000	---	30.33	54.00	23.67	200.0	H	183.0	-8.6
1077.500000	41.79	---	74.00	32.21	100.0	H	20.0	-8.5
1169.750000	---	30.87	54.00	23.13	200.0	H	47.0	-8.0
1198.500000	43.06	---	74.00	30.94	100.0	V	193.0	-7.8
1243.000000	43.02	---	74.00	30.98	200.0	H	42.0	-7.6
1435.750000	---	31.84	54.00	22.16	200.0	H	124.0	-6.5
1716.500000	---	32.91	54.00	21.09	200.0	V	132.0	-5.0
1723.750000	44.18	---	74.00	29.82	100.0	V	110.0	-4.9
1963.500000	45.95	---	74.00	28.05	200.0	H	42.0	-3.5
2076.250000	---	33.95	54.00	20.05	200.0	V	209.0	-3.1
2863.500000	47.71	---	74.00	26.29	100.0	H	68.0	0.5
2994.000000	---	36.50	54.00	17.50	200.0	H	178.0	1.1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

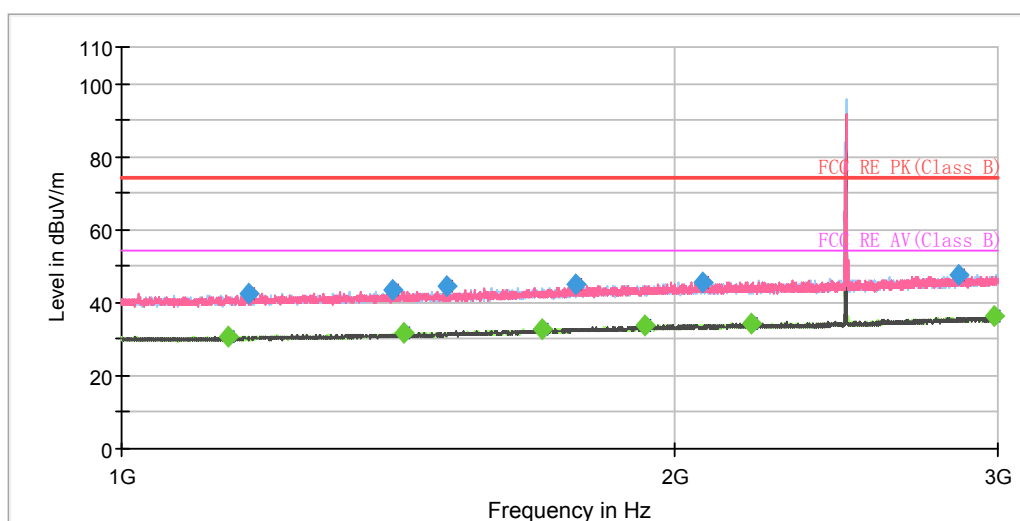


Radiates Emission from 3GHz to 18GHz

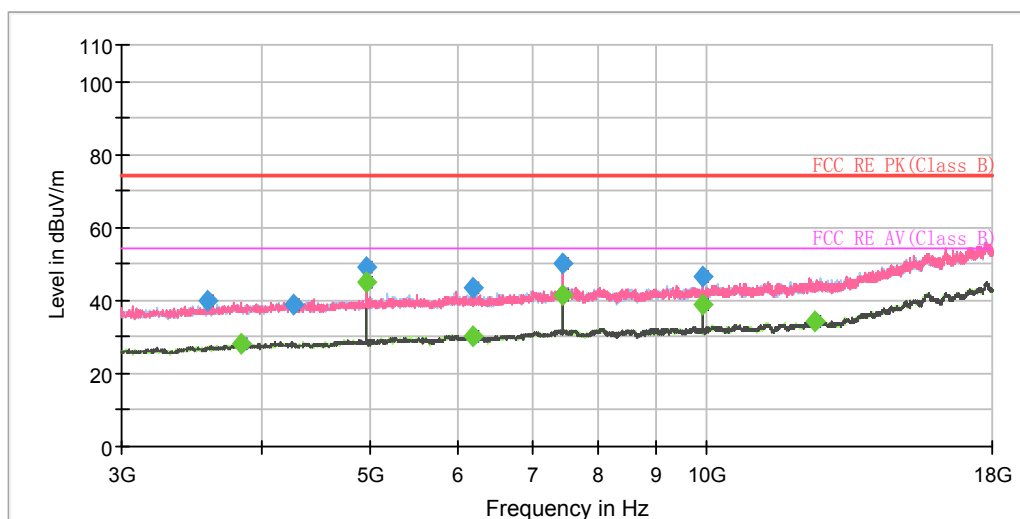
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1059.250000	40.97	---	74.00	33.03	200.0	H	201.0	-8.5
1071.250000	---	30.33	54.00	23.67	100.0	H	47.0	-8.5
1192.750000	42.40	---	74.00	31.60	200.0	V	211.0	-7.8
1195.500000	---	31.12	54.00	22.88	200.0	H	47.0	-7.8
1379.750000	43.35	---	74.00	30.65	100.0	H	26.0	-6.8
1421.000000	---	31.82	54.00	22.18	200.0	V	265.0	-6.6
1694.500000	44.13	---	74.00	29.87	100.0	V	179.0	-5.1
1697.000000	---	32.80	54.00	21.20	200.0	V	329.0	-5.0
1969.750000	46.19	---	74.00	27.81	200.0	H	31.0	-3.5
1999.500000	---	34.26	54.00	19.74	100.0	H	111.0	-3.4
2727.000000	---	35.36	54.00	18.64	200.0	H	132.0	-0.4
2917.000000	47.73	---	74.00	26.27	200.0	V	195.0	0.6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

3DH5-Channel 78



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1144.000000	---	30.91	54.00	23.09	200.0	H	295.0	-8.1
1172.500000	42.48	---	74.00	31.52	100.0	V	153.0	-8.0
1405.000000	43.33	---	74.00	30.67	200.0	V	303.0	-6.7
1424.750000	---	31.68	54.00	22.32	100.0	H	0.0	-6.6
1501.500000	44.57	---	74.00	29.43	200.0	H	20.0	-6.2
1694.750000	---	32.80	54.00	21.20	200.0	V	319.0	-5.1
1765.250000	44.77	---	74.00	29.23	100.0	V	288.0	-4.7
1926.500000	---	33.93	54.00	20.07	200.0	H	25.0	-3.9
2070.250000	45.75	---	74.00	28.25	200.0	H	57.0	-3.1
2202.750000	---	34.13	54.00	19.87	200.0	V	185.0	-2.6
2858.000000	47.45	---	74.00	26.55	100.0	H	210.0	0.4
2988.250000	---	36.42	54.00	17.58	200.0	H	9.0	1.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5.9 Conducted Emission

Ambient condition

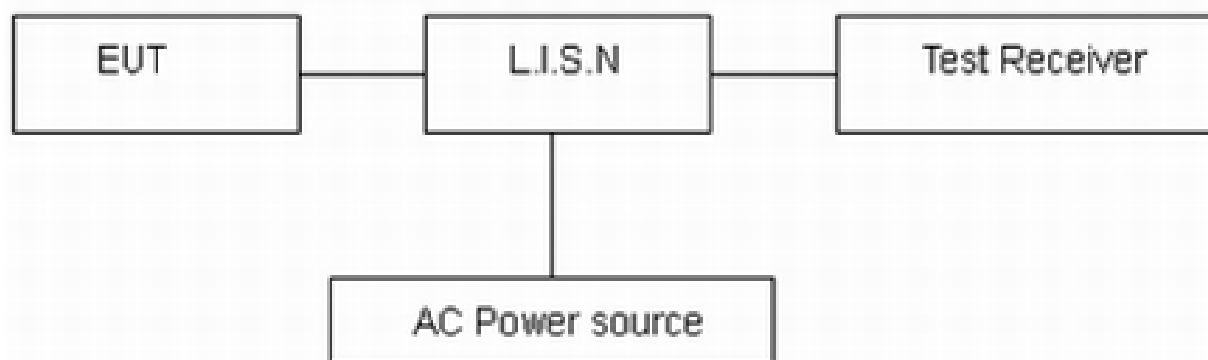
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to 120V/60Hz.

Limits

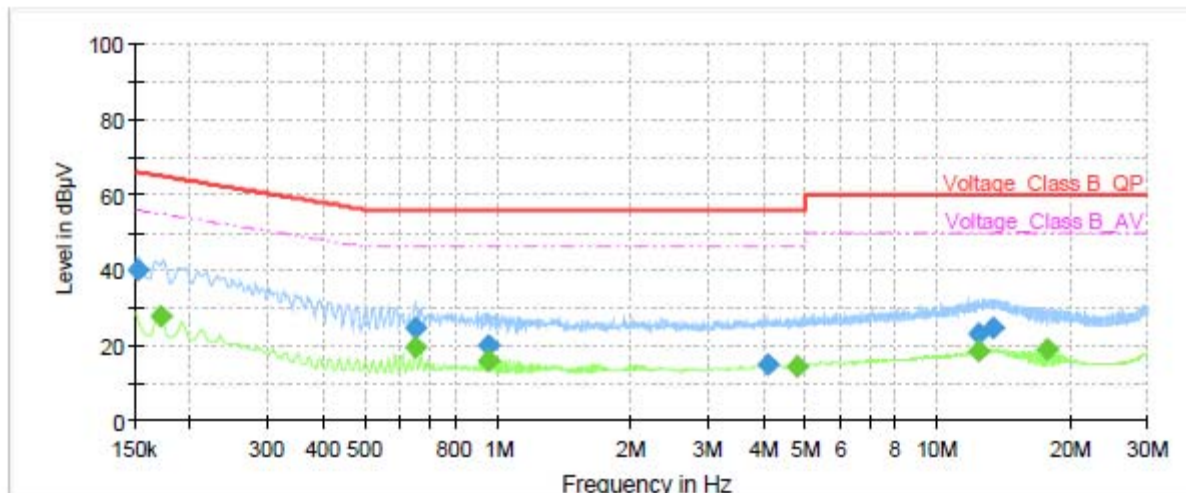
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=2.69$ dB.

Test Results:

Following plots, Blue trace uses the peak detection, Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, BT 3DH5 Channel 0, are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

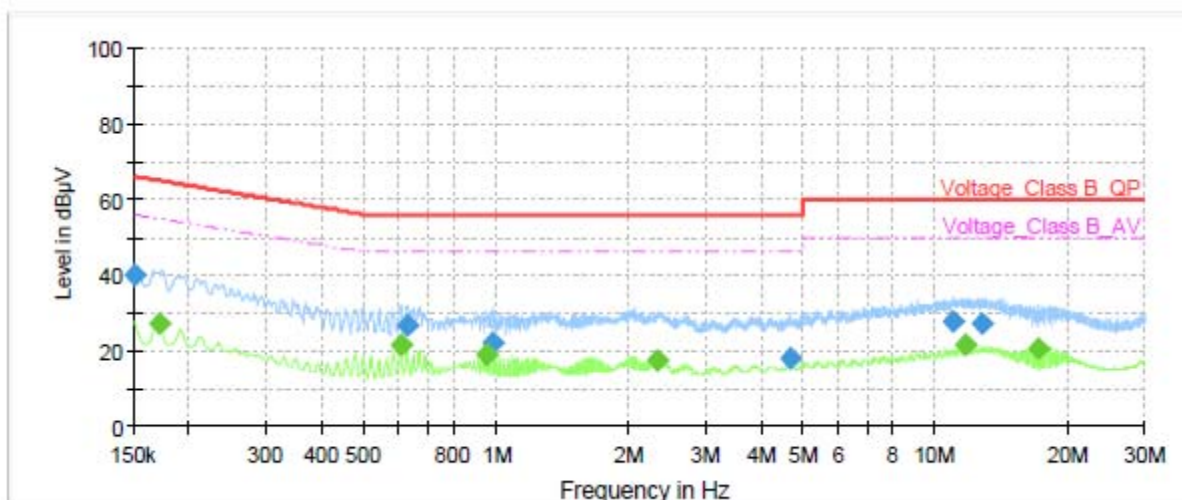


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	40.09	---	65.88	25.79	70.0	9.000	L1	ON	21
0.17	---	27.81	54.95	27.14	70.0	9.000	L1	ON	21
0.65	---	19.68	46.00	26.32	70.0	9.000	L1	ON	20
0.65	24.77	---	56.00	31.23	70.0	9.000	L1	ON	20
0.96	---	16.14	46.00	29.86	70.0	9.000	L1	ON	20
0.96	19.76	---	56.00	36.24	70.0	9.000	L1	ON	20
4.11	14.91	---	56.00	41.09	70.0	9.000	L1	ON	19
4.81	---	14.51	46.00	31.49	70.0	9.000	L1	ON	19
12.38	23.02	---	60.00	36.98	70.0	9.000	L1	ON	20
12.40	---	18.41	50.00	31.59	70.0	9.000	L1	ON	20
13.31	24.55	---	60.00	35.45	70.0	9.000	L1	ON	20
17.79	---	19.05	50.00	30.95	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	39.74	---	66.00	26.26	70.0	9.000	N	ON	21
0.17	---	27.28	54.95	27.67	70.0	9.000	N	ON	21
0.60	---	21.51	46.00	24.49	70.0	9.000	N	ON	20
0.63	26.52	---	56.00	29.48	70.0	9.000	N	ON	20
0.95	---	19.21	46.00	26.79	70.0	9.000	N	ON	20
0.98	22.09	---	56.00	33.91	70.0	9.000	N	ON	20
2.33	---	17.26	46.00	28.74	70.0	9.000	N	ON	20
4.69	17.94	---	56.00	38.06	70.0	9.000	N	ON	19
11.00	27.57	---	60.00	32.43	70.0	9.000	N	ON	20
11.69	---	21.60	50.00	28.40	70.0	9.000	N	ON	20
12.85	26.98	---	60.00	33.02	70.0	9.000	N	ON	20
17.25	---	20.42	50.00	29.58	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 KHz to 30 MHz

6 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Wireless Communication Tester	R&S	CMW270	100673	2020-05-18	2021-05-17
Signal Analyzer	R&S	FSV30	100815	2020-12-13	2021-12-12
EMI Test Receiver	R&S	ESCI	100948	2020-05-18	2021-05-17
Loop Antenna	Schwarzbeck	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBEC K	VULB 9163	391	2019-12-16	2021-12-15
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2021-06-19
EMI Test Receiver	R&S	ESR	101667	2020-05-18	2021-05-17
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	Agilent	N9010A	MY47191109	2020-05-18	2021-05-17
RF Cable	Agilent	SMA 15cm	0001	2020-12-10	2021-12-09
Power Splitter	Hua Xiang	SHX-GF2-2 -13	10120101	/	/
Software	R&S	EMC32	9.26.0	/	/

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

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.