



TEST REPORT Report Reference No.: R/C....: 91248 TRE1706008202 FCC ID YAMMD61XU1 Applicant's name: Hytera Communications Corporation Limited Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Address:: Nanshan District, Shenzhen, People's Republic of China Manufacturer.....: Hytera Communications Corporation Limited Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Address.....: Nanshan District, Shenzhen, People's Republic of China Test item description: **Digital Mobile Radio** Trade Mark.....: Hytera Model/Type reference : MD615 U(1) Listed Model(s): MD612 U(1), MD616 U(1), MD618 U(1) Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247 Date of receipt of test sample...... June 12, 2017 Date of testing..... June 13, 2017 - July 17, 2017 Date of issue..... July 17, 2017 Result.....: PASS Shayne Zhu Compiled by (position+printedname+signature)..: File administrators Shayne Zhu Supervised by (position+printedname+signature) ... : Project Engineer Cary Luo Approved by Toms Mu (position+printedname+signature)...: **RF Manager Hans Hu** Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd. 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Address : Gongming, Shenzhen, China Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.

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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS ANDTEST DESCRIPTION

1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2013: American National Standard forTesting Unlicensed Wireless Devicese

1.2. Report version

Version No.	Date of issue	Description
00	July 17, 2017	Original

2. Test Description

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)&TCB Exclusion List (7 July 2002)	Pass
Restricted band	15.247(d)/15.205	Pass
Radiated Emission	15.247(d)/15.209	Pass

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant: Hytera Communications Corporation Limited		
Address:Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihua Nanshan District, Shenzhen, People's Republic of China		
Manufacturer:	Hytera Communications Corporation Limited	
Address:	Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, People's Republic of China	

3.2. Product Description

Digital Mobile Radio	
Hytera	
MD615 U(1)	
MD612 U(1),MD616 U(1),MD618 U(1)	
DC 13.6V	
-	
115601007301305000110110000000	
Software version: V1.01.02.001	
Supported BT4.0+EDR	
GFSK, π/4DQPSK, 8DPSK	
2402MHz~2480MHz	
79	
1MHz	
Integral Antenna	
0dBi	

3.3. Operation state

Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Channel	Frequency (MHz)
0	2402
1	2403
:	÷
39	2441
:	:
77	2479
78	2480

> <u>Test mode</u>

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For RF test axis

EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- - supplied by the lab

\bigcirc	Power Cable	Length (m):	/
		Shield:	/
		Detachable:	/
\bigcirc	Multimeter	Manufacturer:	/
		Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 317478.

IC-Registration No.: 5377B

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

Test Items	MeasurementUncertainty	Notes
Transmitter Power Conducted	0.57 dB	(1)
Transmitter Power Radiated	2.20 dB	(1)
Conducted Spurious Emission 9 kHz ~ 40 GHz	1.60 dB	(1)
Radiated Spurious Emission 9 kHz ~ 40 GHz	2.20 dB	(1)
Conducted Emission 9 kHz ~30 MHz	3.39 dB	(1)
Radiated Emission 30 ~1000 MHz	4.24 dB	(1)
Radiated Emissio 1 ~ 18 GHz	5.16 dB	(1)
Radiated Emissio 18 ~ 40 GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2016/11/13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2016/11/13
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2016/11/13
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A
Radia	ted Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Ultra-Broadband	ShwarzBeck	VULB9163	538	2016/11/13
	Antenna				
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2016/11/13
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
8	Amplifer	Sonoma	310N	E009-13	2016/11/13
9	JS amplifer	Rohde&Schwarz	JS4-00101800- 28-5A	F201504	2016/11/13
10	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
11	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
14	TURNTABLE	MATURO	TT2.0		N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2016/11/13

4.5. Equipments Used during the Test

Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RFEmission / Spurious RF Conducted EmissionItemTest EquipmentManufacturerModel No.Spectrum AnalyzerRohde&SchwarzFSP1164.4391.402016/11/13

The Cal.Interval was one year

5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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 anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

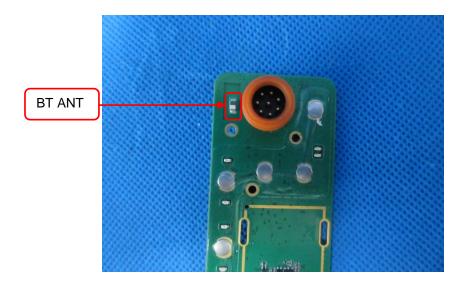
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Test Result:

☑ Passed □ Not Applicable

The antenna is integralan tenna, the best case gain of the antenna is 0dBi.



5.2. Conducted Emission (AC Main)

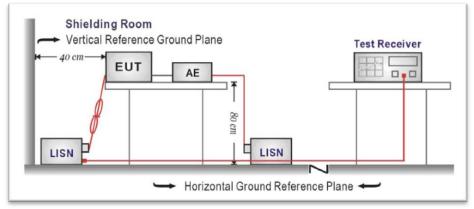
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

	Limit (dBuV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above theconducting ground plane. The vertical conducting plane was located 40 cm to the rear of theEUT. All other surfaces of EUT were at least 80 cm from any other grounded conductingsurface.
- 3. The EUT and simulators are connected to the main power through a line impedancestabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for themeasuring equipment.
- 4. The peripheral devices are also connected to the main power through aLISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were foldedback and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9.

TEST RESULTS

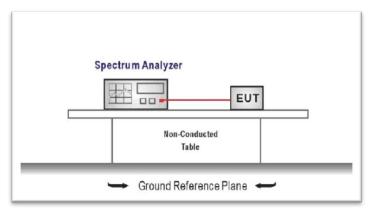
Passed Not Applicable

5.3. Conducted Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW≥ the 20 dB bandwidth of the emission being measured, VBW ≥ RBW

Sweep = auto, Detector function = peak, Trace = max hold

4. Measure and record the results in the test report.

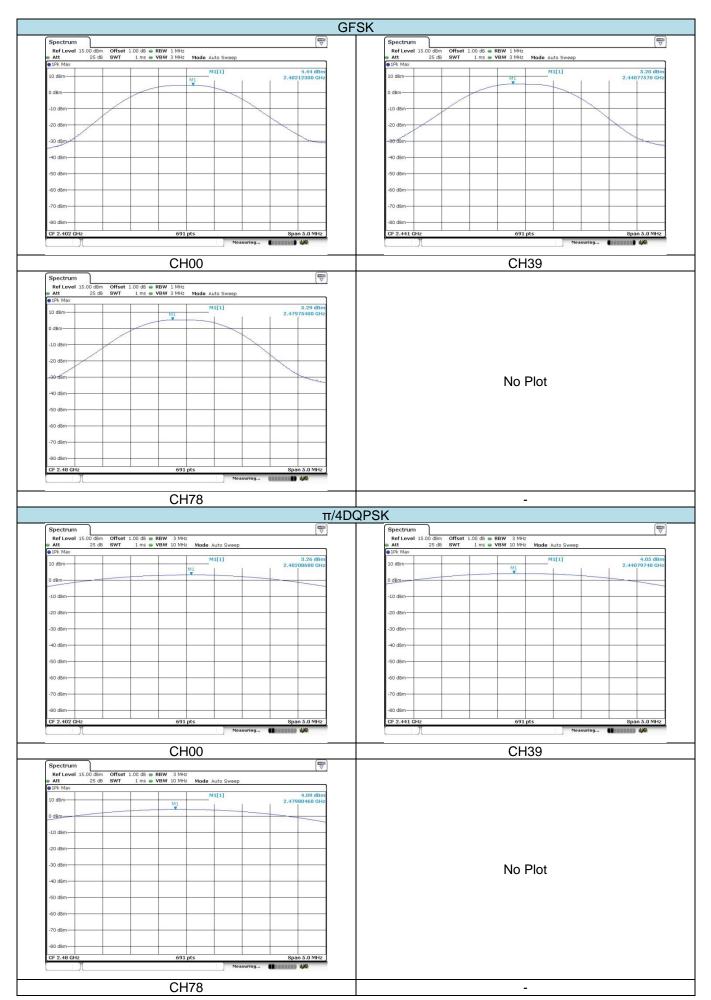
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result
	00	4.44		Pass
GFSK	39	5.20	30.00	
	78	5.29		
	00	3.26	21.00	Pass
π/4DQPSK	39	4.05		
	78	4.09		
	00	3.32		
8DPSK	39	4.25	21.00	Pass
	78	4.36		



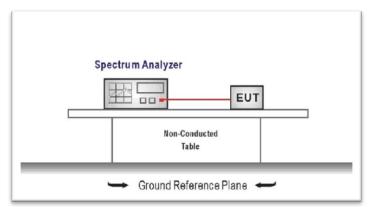
Spectrum					Spectrum			
Ref Level 15.00 dBr	m Offset 1.00 dB B SWT 1 ms	RBW 3 MHz	·····	3 1	Ref Level 15.00 dBm Off	set 1.00 dB 🖷 RBW 3 MHz	No. 10. 1010. 10	
Att 25 d	B SWI 1 ms 🖷	VBW 10 MHz	Mode Auto Sweep		Att 25 dB SW Drk Max	T 1 ms 👄 VBW 10 MHz	Mode Auto Sweep	t.
			M1[1]	3.32 dBm			M1[1]	4.25 dBr
10 dBm		M1	i i	2.40193490 GHz	10 dBm	M1	1	2.44086980 GH
0 dBm					0 dBm			
-10 dBm					-10 dBm			
-20 dBm					-20 dBm-			
-30 dBm					-30 dBm-			
-40 dBm					-40 dBm			
E0 dBm					50 dBm			
-50 dBm					-50 dBm-			
-60 dBm					-60 dBm			
-70 dBm					-70 dBm-			
-80 dBm					-80 dBm-			
CF 2.402 GHz		691 pt:	5	Span 5.0 MHz	CF 2.441 GHz	691	pts	Span 5.0 MHz
Spectrum Ref Level 15.00 dBr	m Offset 1.00 dB 👄			•••••••••••••••••••••••••••••••••••		СН) Me	asuring 🗰 🗰 🎶
Ref Level 15.00 dBr Att 25 d		RBW 3 MHz		(IIIIIIIIIII) 4/2) Me	asuring 🗰 🦚
Ref Level 15.00 dBr Att 25 d		RBW 3 MHz	00	• • • • • • • • • • • • • • • • • •) Me	asuring 🖬 🥵
Ref Level 15.00 dBr Att 25 d		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •) Me	asuring 🧰 🦗
Ref Level 15.00 dBr Att 25 d 1Pk Max 10 dBm		RBW 3 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •) Me	asuring
Ref Level 15.00 dBr Att 25 d		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •) Me	asuring
Att 25 d Att 25 d 1Pk Max 10 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •) Me	asuring
Ref Level 15.00 dBr Att 25 d 1Pk Max 10 dBm 0 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •) Me	asuring
Ref Level 15.00 dBr Att 25 d 1Pk Max 10 dBm 0 dBm 10 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •) Me	asuring
Ref Level 15.00 dBr Att 25 d 1Pk Max 10 dBm 0 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Ref Lovel 15.00 dBr Att 25 d BTR Max 10 dBm 0 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •			39 	asuring
Ref Level 15.00 dBr Att 25 d 91Pk Max 10 dBm 0 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Ref Lovel 15.00 dBc 25 dB Att 25 dB 10 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Ref Lovel 15.00 dBr Att 25 d BTR Max 10 dBm 0 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Ref Lovel 15.00 dBc 25 dB Att 25 dB 10 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Ref Level 15,00 dBc Att 25 d IP/R Max 10 dBm 00 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Ref Loval 15.00 dBc 25 dBc Att 25 dBc 10 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Ref Level 15,00 dBc Att 25 d IPK Max 0 00 dBm		RBW 3 MHz VBW 10 MHz	Mode Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring
Perf Loval 15,00 dBr. > htt 25 d > 1Pk Max 26 d > 10 dBm		RBW 3 MHz VBW 10 MHz M12 M12 M12 M12 M12 M12 M12 M12 M12 M12	Mode Auto Sweep			СН	39 	asuring
Ref Level 15.00 dBr. 91Pk Max 26 d 91Pk Max 0 00 dBm.		RBW 3 MHz VBW 10 MHz	Made Auto Sweep	• • • • • • • • • • • • • • • • • •		СН	39 	asuring

5.4. 20dB Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \ge 1% of the 20 dB bandwidth, VBW \ge RBW

Sweep = auto, Detector function = peak, Trace = max hold

4. Measure and record the results in the test report.

TEST MODE:

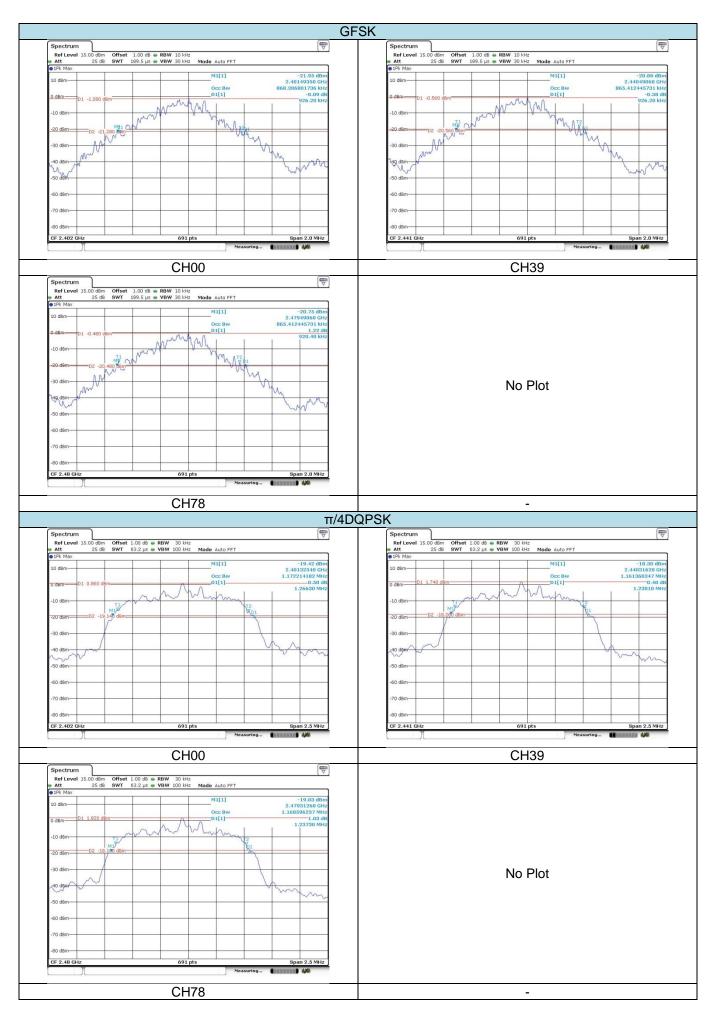
Please refer to the clause 3.3

TEST RESULTS

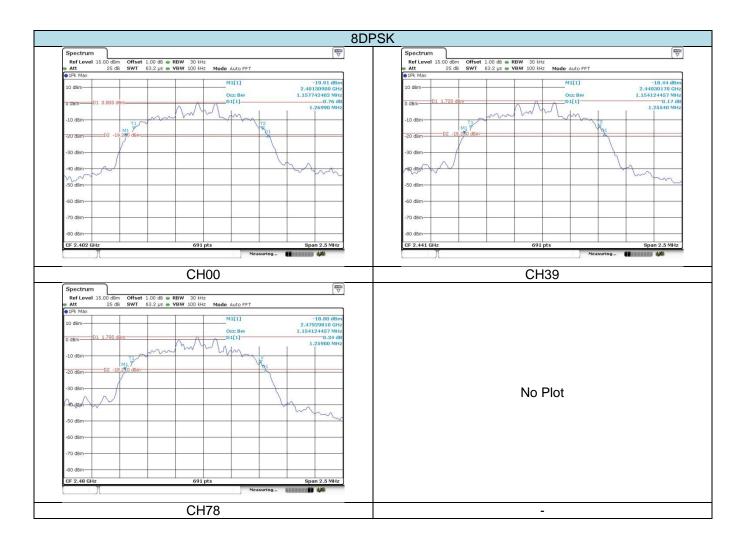
🛛 Passed

Not Applicable

Modulation type	Channel	20dB Bandwidth (MHz)	Limit (MHz)	Result
	00	0.926		
GFSK	39	0.926	-	Pass
	78	0.920		
	00	1.266		
π/4DQPSK	39	1.230	-	Pass
	78	1.237		
	00	1.270		
8DPSK	39	1.255	-	Pass
	78	1.259		



Report Template Version: H00 (2016-08)

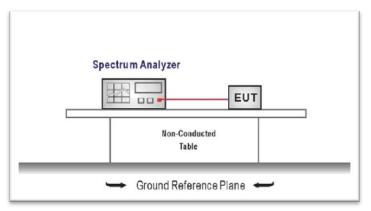


5.5. Carrier Frequencies Separation

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20 dB bandwidth of the hopping channel, whichever is greater.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels RBW ≥ 1% of the span, VBW ≥ RBW Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

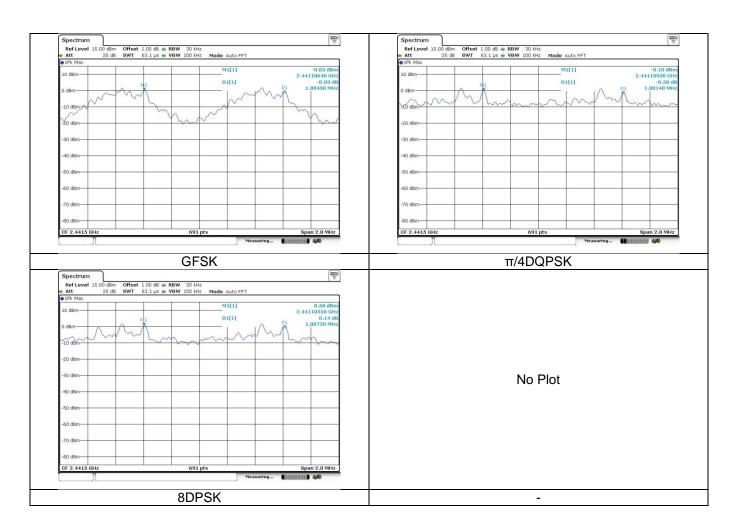
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
GFSK	39	1.004	0.926	Pass
π/4DQPSK	39	1.001	0.844	Pass
8DPSK	39	1.007	0.847	Pass

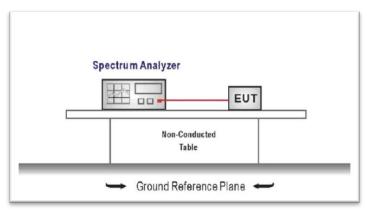


5.6. Hopping Channel Number

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): Frequency hopping systems in the 2400–2483.5 MHz band shall use at least **15** channels.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: Span = the frequency band of operation RBW ≥ 1% of the span, VBW ≥ RBW Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Modulation type	Channel number	Limit	Result
GFSK	79		
π/4DQPSK	79	15.00	Pass
8DPSK	79		

Spectrum			Spectrum			₽
	et 1.00 dB 🖷 RBW 1 MHz		Ref Level 15.00 dBm Offse		10 - 10 - 1	
Att 25 dB SWT	1 ms 🖷 VBW 3 MHz Mode Auto Sweep		Att 25 dB SWT	1 ms VBW 3 MHz Mode Au	uto Sweep	
The Max	M1[1]	3.97 dBm	• Thk Max		11[1] 2.3	2 dBm
10 dBm	matri	2.401630 GHz	10 dBm		2 40187	70 GH2
MI	mmmmmmBlfthmmm	man de de de	M1	D	1[1] 0.	.97 dB
¢ dBm		78.550 MHz	g/dBm		78.18	IO AIH2
			1			1
-10 dBm			-10 dBm-			
-20 dBm-			-20 dBm			
-30 dBm			-30 dBm			_
						1
-40 dBm-			-40 dBm-			_
-50 dBm-			-50 dBm			1.1
-60 dBm			-60 dBm			
-70 dBm-			-70 dBm-			
, o sent			-/0 4011			
-80 dBm-			-80 dBm-			
Start 2.4 GHz	691 pts	Stop 2.4835 GHz	Start 2.4 GHz	691 pts	Stop 2.4835	
Л	Measuring.	- C ERENERS 440			Measuring 📲 🚧	
	CESK				k.	
Spectrum	GFSK			π/4DQPSI	K	
Spectrum RefLevel 15.00 dBm Offs Att 25 dB SWT	et 1.00 dB 🖷 RBW 1 MHz	(*)		π/4DQPSI	K	
Ref Level 15.00 dBm Offs Att 25 dB SWT 1Pk Max	et 1.00 dB 🖷 RBW 1 MHz	2.12 dBm		π/4DQPSI	К	
Ref Level 15.00 dBm Offs Att 25 dB SWT 1Pk Max 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz		π/4DQPSI	К	
Ref Level 15.00 dBm Offs Att 25 dB SWT 1Pk Max 10 dBm M1	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz		π/4DQPSI	К	
Ref Level 15.00 dBm Offs Att 25 dB SWT 1Pk Max 10 dBm M1	et 1.00 dB @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1] 01(1)	2.12 dBm 2.401630 GHz		π/4DQPSI	K	
Ref Level 15.00 dBm Offs Att 25 dB SWT 91Pk Max 10 dBm M1 9 dBm 9 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz		π/4DQPSI	К	
Ref Level 15.00 dBm Offs Att 25 dB SWT 1Pk Max 10 dBm M1	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz		π/4DQPSI	Κ	
Ref Level 15.00 dBm Offs att 25 dB SWT DFR Max 10 dBm Intervention 10 dBm Intervention	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz		π/4DQPSI	K	
Ref Level 15.00 dBm Offs Att 25 dB SWT 91Pk Max 10 dBm M1 9 dBm 9 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz		π/4DQPSI	Κ	
Ref Level 15.00 dBm Offs att 25 dB SWT 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz			K	
Ref Level 15.00 dBm Offs att 25 dB SWT DFR Max 10 dBm Intervention 10 dBm Intervention	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 1Pk Max 25 dB SWT 1Pk Max 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz		π/4DQPSI No Plot	Κ	
Ref Level 15.00 dBm Offs att 25 dB SWT 1Pk Max 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 91Pk Max 25 dB SWT 10 dBm 10 dBm 10 dBm 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 1Pk Max 25 dB SWT 1Pk Max 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			K	
Ref Level 15.00 dBm Offs 91Pk Max SWT 91Pk Max Max 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 91Pk Max 25 dB SWT 10 dBm 10 dBm 10 dBm 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			K	
Ref Level 15.00 dBm Offs 91Pk Max SWT 91Pk Max GBm 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 91Pk Max SWT 91Pk Max Max 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 91Pk Max 300 dBm 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep 	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 91Pk Max SWT 91Pk Max GBm 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 91Pk Max 300 dBm 10 dBm	et 1.00 d8 @ RBW 1 MHz 1 ms @ VBW 3 MHz Mode Auto Sweep M1[1]	2.12 dBm 2.401630 GHz			Κ	
Ref Level 15.00 dBm Offs 91Pk Max SWT 91Pk Max Max 10 dBm	et 1.00 dB = RBW 1 MHz 1 ms = VBW 3 MHz Mute Auto Sweep M1[1] 011 011 011 011 011 011 011 0	2.12 dBm 2.401630 GHz 0.91 dB 16.670 44z			Κ	
Ref Level 15.00 dBm Offs 91Pk Max SWT 91Pk Max Max 10 dBm	et 1.00 dB = RBW 1 MHz 1 ms = VBW 3 MHz Mute Auto Sweep M1[1] 011 011 011 011 011 011 011 0	2.12.dbm 2.401630.dFz 9.92.db 76.370Autz			K	
Ref Level 15.00 dBm Offs 91Pk Max SWT 91Pk Max Max 10 dBm	et 1.00 dB = RBW 1 MHz 1 ms = VBW 3 MHz Mute Auto Sweep M1[1] 011 011 011 011 011 011 011 0	2.12 dBm 2.401630 GHz 0.91 dB 16.670 44z			Κ	

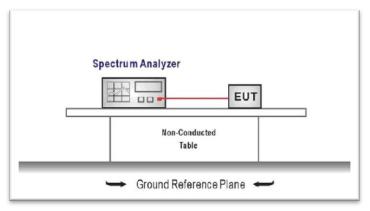
5.7. Dwell Time

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): The average time of occupancy on any channel shall not be greater than 0.4 seconds

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a pe-riod of 0.4 seconds multiplied by the number of hopping channels employed.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel, RBW= 1 MHz, VBW ≥ RBW Sweep = as necessary to capture the entire dwell time per hopping channel, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

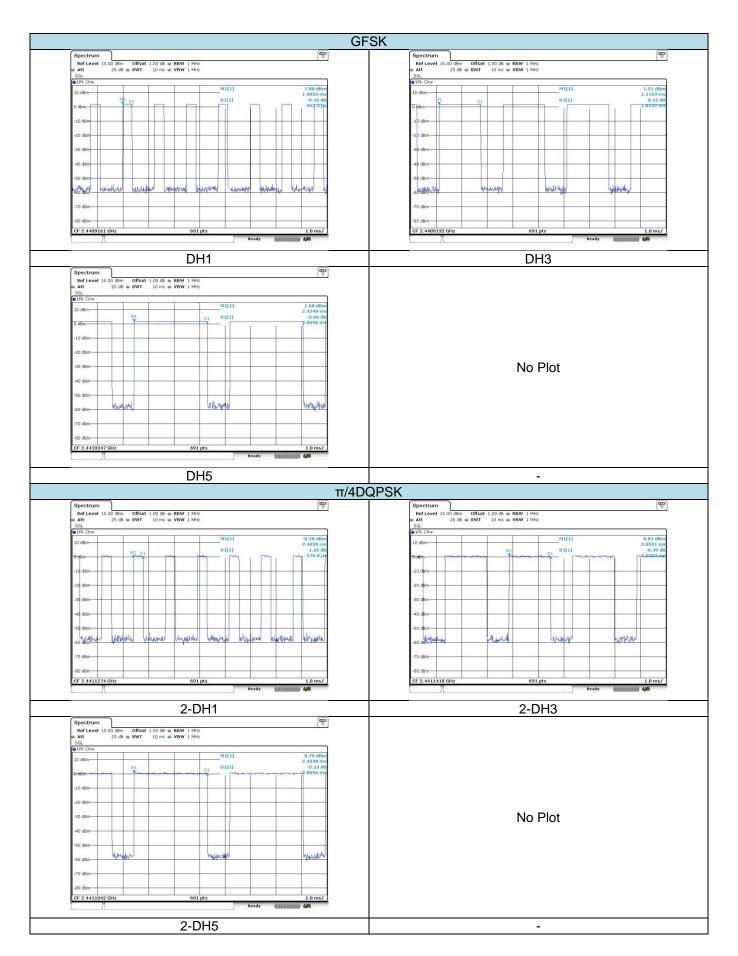
TEST RESULTS

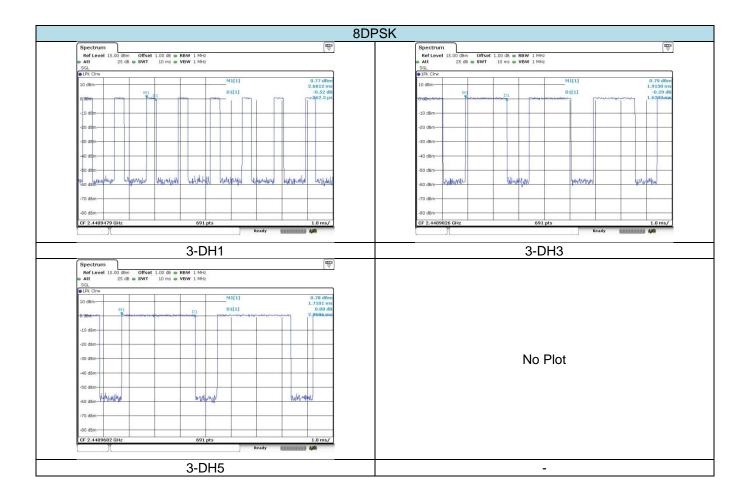
☑ Passed □ Not Applicable

Modulation type	Channel	Dwell time (Second)	Limit (Second)	Result
	DH1	0.116		
GFSK	DH3	0.260	0.40	Pass
	DH5	0.306		
	2-DH1	0.121		
π/4DQPSK	2-DH3	0.260	0.40	Pass
	2-DH5	0.306		
	3-DH1	0.116		
8DPSK	3-DH3	0.260	0.40	Pass
	3-DH5	0.305		

Note:

- 1. We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.
- Dwell time=Pulse time (ms) x (1600 ÷ 2 ÷ 79) x31.6 Second for DH1, 2-DH1, 3-DH1
 Dwell time=Pulse time (ms) x (1600 ÷ 4 ÷ 79) x31.6 Second for DH3, 2-DH3, 3-DH3
 Dwell time=Pulse time (ms) x (1600 ÷ 6 ÷ 79) x31.6 Second for DH5, 2-DH5, 3-DH5





5.8. Pseudorandom Frequency Hopping Sequence

LIMIT

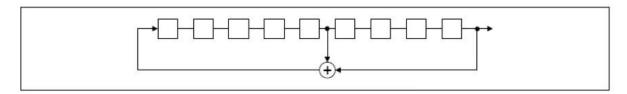
FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

Frequency hopping systems shall have hopping channel carrier fre-quencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Al-ternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier fre-quencies 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo ran-domly ordered list of hopping fre-quencies. Each frequency must be used equally on the average by each trans-mitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their cor-responding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST RESULTS

The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the friststage. The sequence begins with the frist one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An explame of pseudorandom frequency hopping sequence as follows:

3 75	73		1	78	64	62		6	4	2	0
		 		1		1	 				Т
				ł		1					
				1	I E						
_											

Each frequency used equally one the average by each transmitter.

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

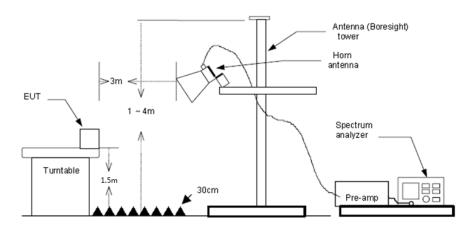
5.9. Restricted band (radiated)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, 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)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1 MHz, VBW=3 MHz for Peak value RBW=1 MHz, VBW=10 Hz for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

- 1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor
- Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report.
- 3) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

	CH00													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value					
2310.00	35.88	28.05	6.62	37.65	32.90	74.00	-41.10	Vertical						
2390.03	36.17	27.65	6.75	37.87	32.70	74.00	-41.30	Vertical						
2310.00	35.92	28.05	6.62	37.65	32.94	74.00	-41.06	Horizontal	Peak					
2390.03	35.04	27.65	6.75	37.87	31.57	74.00	-42.43	Horizontal						
2310.00	23.70	28.05	6.62	37.65	20.72	54.00	-33.28	Vertical						
2390.03	24.97	27.65	6.75	37.87	21.50	54.00	-32.50	Vertical	Average					
2310.00	24.07	28.05	6.62	37.65	21.09	54.00	-32.91	Horizontal	Average					
2390.03	23.78	27.65	6.75	37.87	20.31	54.00	-33.69	Horizontal						

	CH78													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value					
2483.50	39.13	27.26	6.83	37.87	35.35	74.00	-38.65	Vertical						
2500.00	34.70	27.20	6.84	37.87	30.87	74.00	-43.13	Vertical	Peak					
2483.50	48.37	27.26	6.83	37.87	44.59	74.00	-29.41	Horizontal	reak					
2500.00	34.85	27.20	6.84	37.87	31.02	74.00	-42.98	Horizontal						
2483.50	25.70	27.26	6.83	37.87	21.92	54.00	-32.08	Vertical						
2500.00	22.90	27.20	6.84	37.87	19.07	54.00	-34.93	Vertical	Average					
2483.50	27.99	27.26	6.83	37.87	24.21	54.00	-29.79	Horizontal	Average					
2500.00	22.25	27.20	6.84	37.87	18.42	54.00	-35.58	Horizontal						

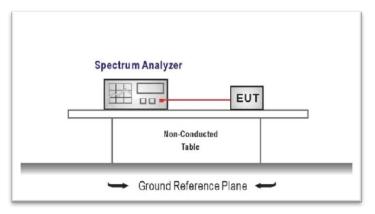
5.10. Bandedge and Spurious Emission (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

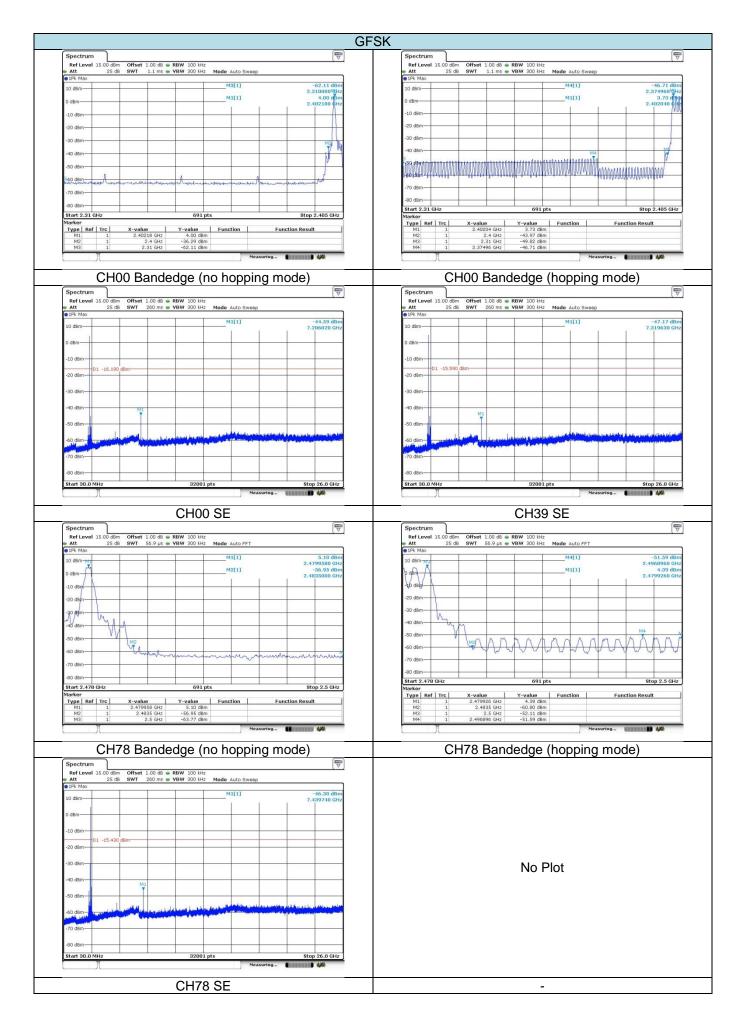
- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: RBW = 100 kHz, VBW ≥ RBW Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

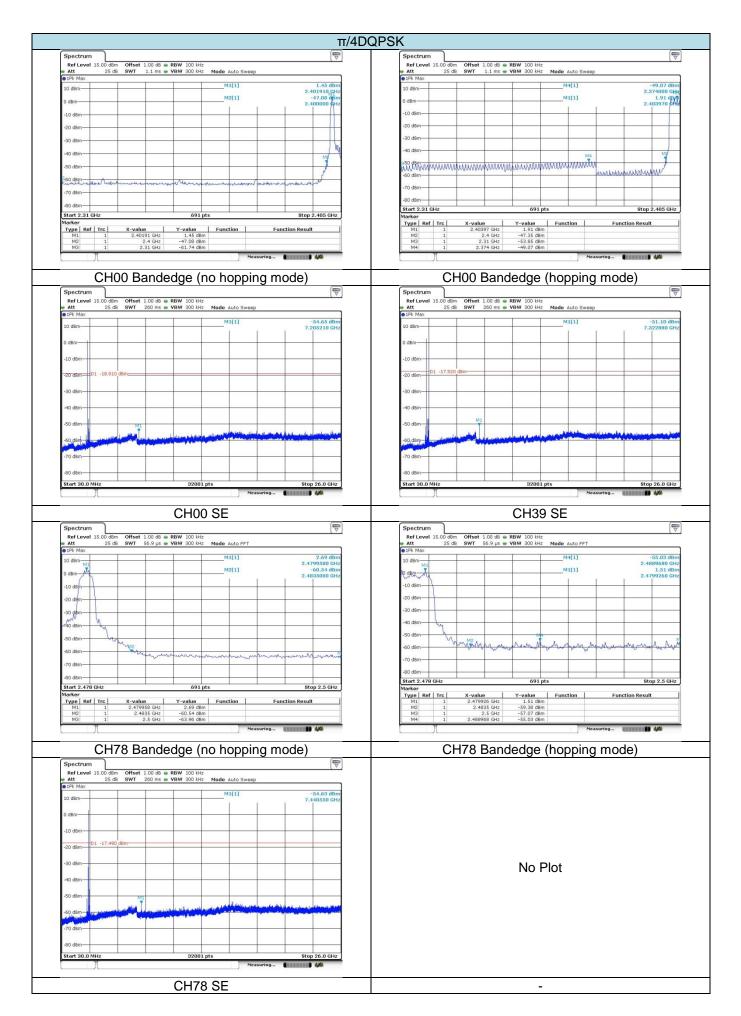
TEST MODE:

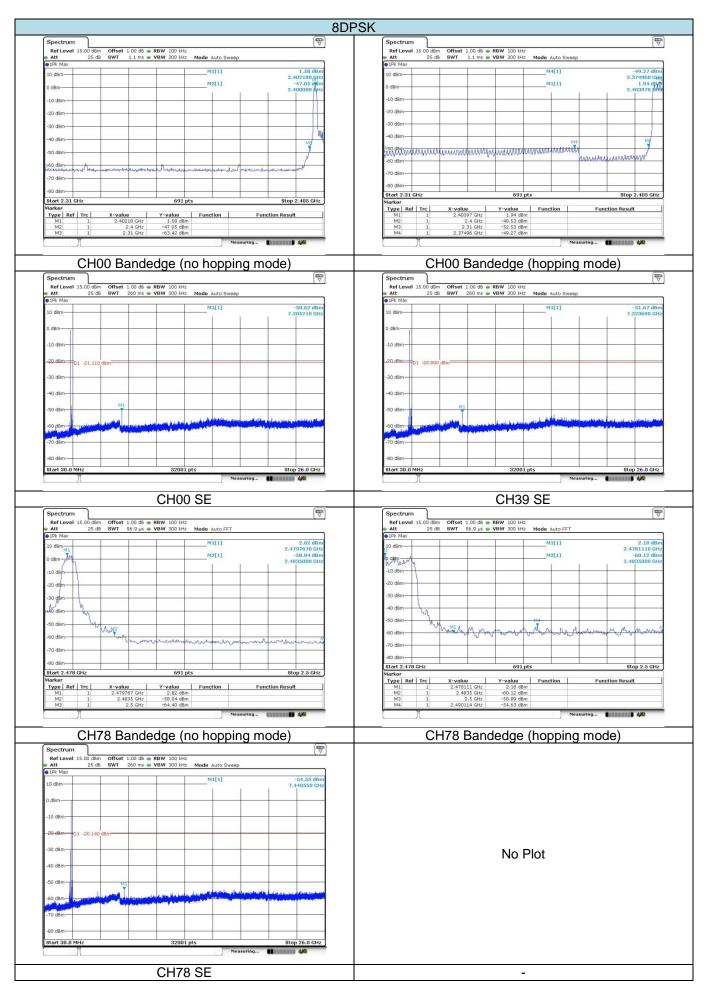
Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable







5.11. Spurious Emission (radiated)

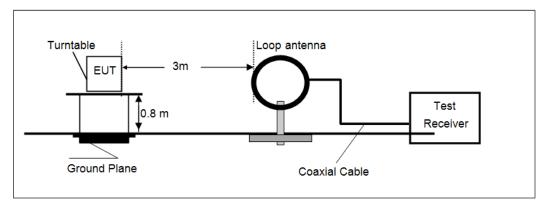
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

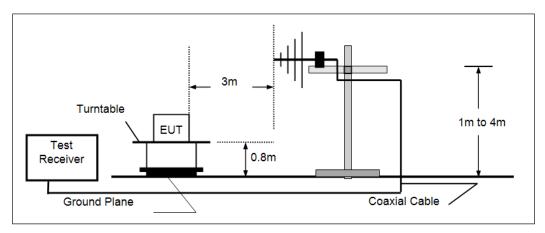
Frequency	Limit (dBuV/m @3m)	Value		
30 MHz ~ 88 MHz	40.00	Quasi-peak		
88 MHz ~ 216 MHz	43.50	Quasi-peak		
216 MHz ~ 960 MHz	46.00	Quasi-peak		
960 MHz ~ 1 GHz	54.00	Quasi-peak		
Above 1 GHz	54.00	Average		
Above FOHZ	74.00	Peak		

TEST CONFIGURATION

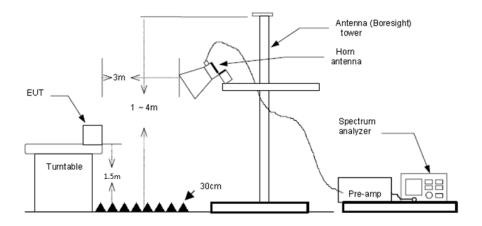
Below 30 MHz



> 30 MHz ~1000 MHz



> Above 1 GHz



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- 5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz, RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1 GHz, RBW=1 MHz, VBW=3 MHz for Peak value
 - RBW=1 MHz, VBW=10 Hz for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

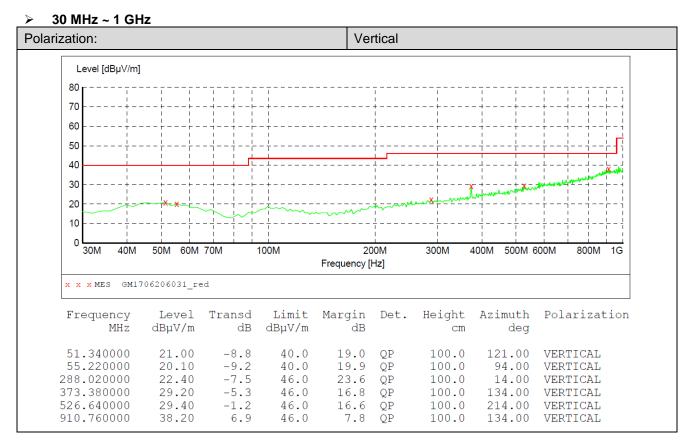
☑ Passed □ Not Applicable

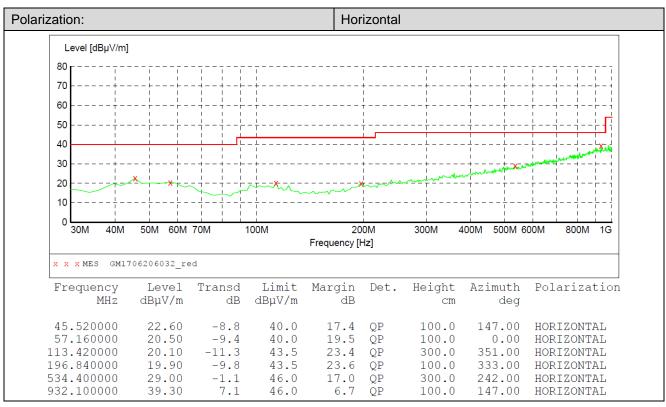
Note:

- 1) Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3) Below 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation High channel which it was worst case, so only the worst case's data on the test report.
- 4) Above 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report
- 5) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

> 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.





> Above	1 GHz												
	CH00 for GFSK												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value				
1593.34	42.74	24.96	5.55	36.71	36.54	74.00	-37.46	Vertical					
2124.37	41.26	26.90	6.38	37.32	37.22	74.00	-36.78	Vertical	Peak				
4809.50	53.21	31.58	9.55	36.93	57.41	74.00	-16.59	Vertical	reak				
7209.02	36.10	36.21	11.87	35.07	49.11	74.00	-24.89	Vertical					
4809.50	34.86	31.58	9.55	36.93	39.06	54.00	-14.94	Vertical	Average				
1593.34	41.61	24.96	5.55	36.71	35.41	74.00	-38.59	Horizontal					
3923.37	37.46	29.70	8.67	38.16	37.67	74.00	-36.33	Horizontal	Peak				
4809.50	47.36	31.58	9.55	36.93	51.56	74.00	-22.44	Horizontal	Реак				
7209.02	40.22	36.21	11.87	35.07	53.23	74.00	-20.77	Horizontal	1				
4809.50	35.73	31.58	9.55	36.93	39.93	54.00	-14.07	Horizontal	Avorago				
7209.02	20.70	36.21	11.87	35.07	33.71	54.00	-20.29	Horizontal	Average				

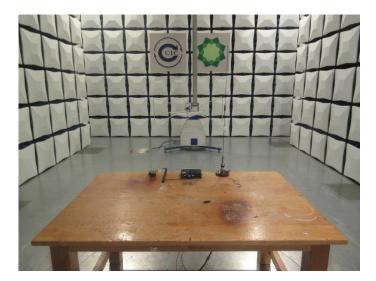
				CH39	9 for GFSK				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1593.34	42.55	24.96	5.55	36.71	36.35	74.00	-37.65	Vertical	
2129.79	45.51	26.94	6.38	37.33	41.50	74.00	-32.50	Vertical	Peak
4883.52	50.25	31.43	9.59	36.73	54.54	74.00	-19.46	Vertical	геак
7319.96	41.18	36.30	11.99	34.92	54.55	74.00	-19.45	Vertical	
7319.96	41.18	36.30	11.99	34.92	54.55	74.00	-19.45	Vertical	
7319.96	22.76	36.30	11.99	34.92	36.13	54.00	-17.87	Vertical	Average
4883.52	31.65	31.43	9.59	36.73	35.94	54.00	-18.06	Vertical	
1593.34	44.88	24.96	5.55	36.71	38.68	74.00	-35.32	Horizontal	
3516.59	36.98	29.05	8.14	38.39	35.78	74.00	-38.22	Horizontal	Deels
4883.52	53.42	31.43	9.59	36.73	57.71	74.00	-16.29	Horizontal	Peak
7860.74	32.33	36.47	12.97	34.91	46.86	74.00	-27.14	Horizontal	
4883.52	34.27	31.43	9.59	36.73	38.56	54.00	-15.44	Horizontal	Average

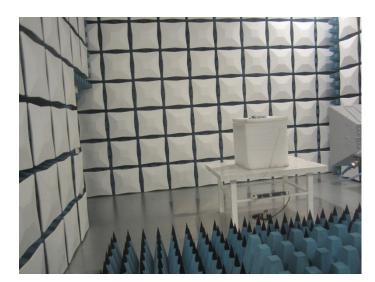
CH78 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1685.12	42.86	25.16	5.74	36.90	36.86	74.00	-37.14	Vertical	Peak
3795.66	35.72	29.59	8.50	38.23	35.58	74.00	-38.42	Vertical	
4958.68	52.63	31.46	9.64	36.52	57.21	74.00	-16.79	Vertical	
7451.57	31.84	36.20	12.24	34.86	45.42	74.00	-28.58	Vertical	
4958.68	35.01	31.46	9.64	36.52	39.59	54.00	-14.41	Vertical	Average
1593.34	38.90	24.96	5.55	36.71	32.70	74.00	-41.30	Horizontal	Peak
3516.59	37.51	29.05	8.14	38.39	36.31	74.00	-37.69	Horizontal	
4958.68	45.56	31.46	9.64	36.52	50.14	74.00	-23.86	Horizontal	
7451.57	38.32	36.20	12.24	34.86	51.90	74.00	-22.10	Horizontal	
4958.68	32.05	31.46	9.64	36.52	36.63	54.00	-17.37	Horizontal	Average
7451.57	23.13	36.20	12.24	34.86	36.71	54.00	-17.29	Horizontal	

6. Test Setup Photos of the EUT

Radiated Emission









7. External and Internal Photos of the EUT

Reference to Test Report No.: TRE1706008201.

-----End of Report-----