

Test Report

FCC ID: 2AIMLNPC-1

Date of issue: Jan. 03, 2017

Sample Description:	Mobile Phone
Model(s):	NPC-1
Applicant:	R.B.R. Limited
Address:	Unit 1901, Austin Plaza, 83 Austin Road, Kowloon,
	Hong Kong, China
Date of Test:	Dec. 21, 2016 to Jan. 03, 2017

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Test Result Certification			
Applicant's name:	R.B.R. Limited		
Address:	Unit 1901, Austin Plaza, 83 Austin Road, Kowloon, Hong Kong, China		
Manufacture's Name:	Wherecom Technologies Limited		
Address:	18/F, Science & Technology Development Institute of China, High-Tech South Road 1, South Section, High-Tech Science and Technology Park, Nan Shan District, Shen Zhen, China		
Product name:	Mobile Phone		
Trademark:	N/A		
Model name:	NPC-1		
Standards:	FCC Part 15.247		
Test Procedure:	ANSI C63.10-2013 FCC public notice DA 00-705		

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:	David C	hen
	David Chen	Jan. 03, 2017
Reviewed by:	(en che	~
	Leon Chen	Jan. 03, 2017
Approved by:	Jun (iu.
	Ares Liu	Jan. 03, 2017



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Summary of Test Result

Item	FCC Part No.	Description of Test	Result
1	15.203	Antenna requirement	Pass
2	15.207	AC power line conducted emission	Pass
3	15.247(b)(1)	Peak output power	Pass
4	15.247(a)(1)	20dB emission bandwidth	Pass
5	15.247(a)(1)	Carrier frequency separation	Pass
6	15.247(a)1	Number of hopping channel	Pass
7	15.247(a)(1)	Time of occupancy (dwell time)	Pass
8	15.247(d)	Band edge spurious emission, conducted spurious emission	Pass
9	15.247(d), 15.205, 15.209	Radiated emission	Pass



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1 General description

1.1 Feature of equipment under test (EUT)

Product name:	Mobile Phone
Model name:	NPC-1
Tx/Rx frequency range:	Tx/Rx: 2402MHz~2480MHz
Bluetooth version:	V3.0+EDR
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Hardware version:	V1.1
Software version:	CE_V1.0
Power Source:	Rechargeable lithium battery DC Voltage 3.7V
Adapter information:	N/A
Antenna Designation:	Monopole antenna (Antenna Gain: 2.05dBi)

1.2 Operation channel list

Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz
1	2403MHz	21	2423MHz	41	2443MHz
18	2420MHz	38	2440MHz	77	2479MHz
19	2421MHz	39	2441MHz	78	2480MHz

1.3 Test Frequency Channel

Low	2402MHz
Middle	2441MHz
High	2480MHz

1.4 EUT operation mode

During testing, RF test program provided by the manufacture to control the Tx operation followed the test requirement.



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1.5 Test conditions

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

- Temperature: 20°C~30°C - Humidity: 30%~70%

- Atmospheric pressure: 98kPa~101kPa

1.6 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
Adapter	HW-050200U01	/	HUAWEI	FCC VOC

1.7 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	±5%



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2 Testing site

Test Site	Shenzhen Toby Technology Co., Ltd.	
Test Site Location	1 A/F., Bldg.6, Yusheng Industrial Zone The National Road No.107 Xixiang Section 467, Shenzhen, Guangdong, China	
FCC Registration No.:	811562	
CNAS Registration No.:	CNAS L5813	



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3 List of test equipment

For AC power line conducted emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
LISN	R&S	ENV216	101313	2017.12.06
LISN	SCHWARZBECK	NNLK 8129	8129245	2017.12.25
Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	2017.12.25
Test Cable	N/A	N/A	C01	2017.12.06
EMI Test Receiver	R&S	ESCI	101160	2017.12.06

For Radiated emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
Log-Bicon Antenna	MESS-ELEKTRO NIK	VULB 9160	3058	2017.12.11
Horn Antenna	Schwarzbeck	BBHA 9120D	631	2017.12.05
Horn Antenna	Schwarzbeck	BBHA 9170	373	2017.12.05
Test Cable	United Microwave	57793	1m	2017.12.05
Test Cable	United Microwave	A30A30-5006	10m	2017.12.05
Microwave Pre-amplifier	Agilent	8449B	3008A01714	2017.12.05
Pre-Amplifier	Anritsu	MH648A	M09961	2017.12.05
EMI Test Receiver	R&S	ESPI-7	101318	2017.12.05
Spctrum analyzer	Agient	E4470B	MY41441082	2017.06.01

For RF conducted emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
Spctrum analyzer	Agient	E4470B	MY41441082	2017.06.01

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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4 Test Result

4.1 Antenna requirement

4.1.1 Requirement defined in FCC 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.1.2 EUT antenna description

The Bluetooth antenna of EUT is an internal permanently attached antenna (Internal antenna), the maximum gain is 2.05dBi. So the antenna meets the requirement of this part.



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4.2 Conducted emission

4.2.1. Limit

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

Note: Decreases with the logarithm of the frequency from 0.15MHz to 0.5MHz.

4.2.2. Test method

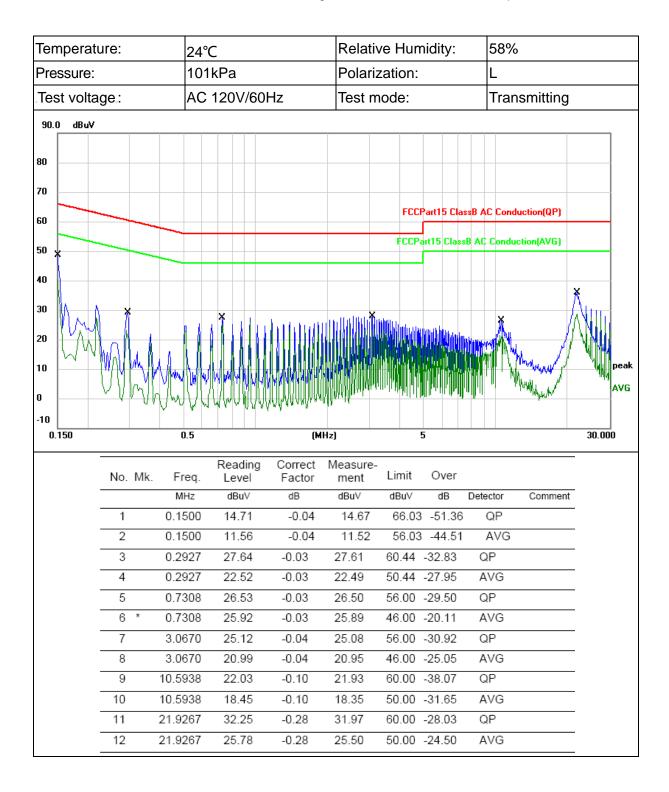
- 1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.
- 2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 4. LISN is at least 80 cm from nearest part of EUT chassis.
- 5. The resolution bandwidth of EMI test receiver is set at 9kHz.

4.2.3. Test Result



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Tem	perat	ure:		24°	°C		Relati	ve Hun	nidity:	58%)	
Pres	sure:			10	1kPa		Polari	zation:		N		
Test	volta	age.:		AC	120V/60	Hz	Test m	node:		Tran	smitting	
90.0	dBuV						•			•		
80												
70												
60	-							FCCF	Part15 Cla	ssB AC Condu	uction(QP)	
•								FCCPa	ut15 Class	sB AC Conduc	etion(AVG)	
50											along ir ay	
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0.1	50			0.5		(M	Hz)	Ę	i			30.000
					Reading	Correct	Measure-					_
		No.	Mk.	Freq.	Level	Factor	ment	Limit	Over			_
				MHz 0.1500	dBu∨ 16.18	dB -0.04	dBu∨ 16.14	dBuV	dB -49.91	Detector	Comment	-
		$\frac{1}{2}$		0.1500	12.82	-0.04	12.78		-43.27			_
		3		0.7320	28.43	-0.03	28.40	56.00		QP		-
		4		0.7320	26.92	-0.03	26.89	46.00		AVG		-
		- 5		1.1721	26.88	-0.04	26.84	56.00		QP		-
		6		1.1721	25.09	-0.04	25.05	46.00	-20.95	AVG		-
		7	:	2.7063	28.17	-0.05	28.12	56.00	-27.88	QP		-
		8		2.7063	24.56	-0.05	24.51	46.00	-21.49	AVG		_
		9		0.4563	27.32	-0.10	27.22	60.00		QP		_
		10		0.4563	23.49	-0.10	23.39	50.00		AVG		_
		11		1.7870	33.03	-0.28	32.75	60.00		QP		_
		12	2	1.7870	26.42	-0.28	26.14	50.00	-23.86	AVG		



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4.3 Peak output power

4.3.1 Limits

Conducted peak output power limit is 125mW (21dBm)

4.3.2 Test Method

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

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.

4.3.3 Test Result

GFSK

Frequency (MHz)	Peak output power (dBm)	Limit (dBm)
2402	6.512	21
2441	6.755	21
2480	6.94	21

π/4-DQPSK

Frequency (MHz)	Peak output power (dBm)	Limit (dBm)
2402	5.238	21
2441	5.526	21
2480	5.712	21

8DPSK

Frequency (MHz)	Peak output power (dBm)	Limit (dBm)
2402	5.449	21
2441	5.71	21
2480	5.813	21

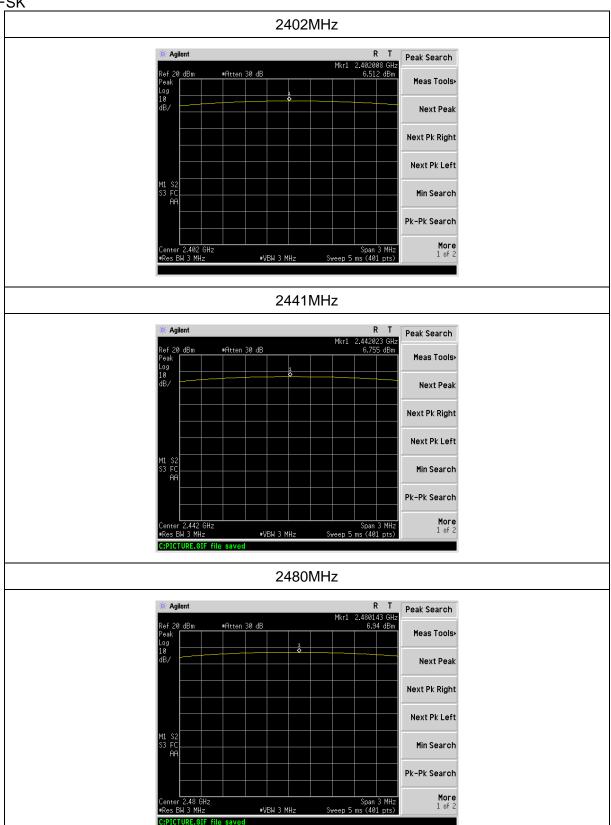
Test plots as below



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GFSK





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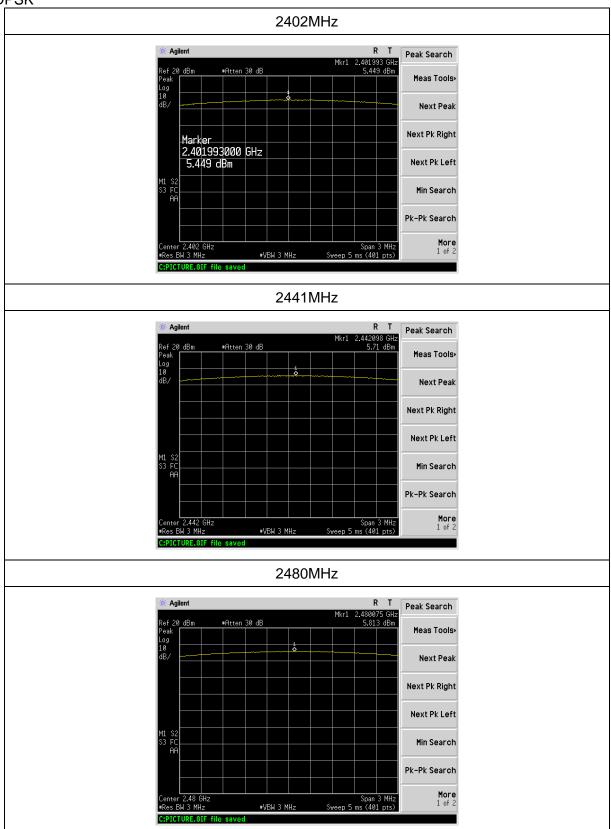
π /4-DQPSK





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8DPSK





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4.4 20dB emission bandwidth

4.4.1 Test method

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

4.4.2 Test result

GFSK

Frequency (MHz)	20dB emission bandwidth (MHz)
2402	0.828
2441	0.821
2480	0.805

$\pi/4$ -DQPSK

Frequency (MHz)	20dB emission bandwidth (MHz)	
2402	1.136	
2441	1.135	
2480	1.138	

8DPSK

Frequency (MHz)	20dB emission bandwidth (MHz)
2402	1.172
2441	1.178
2480	1.175

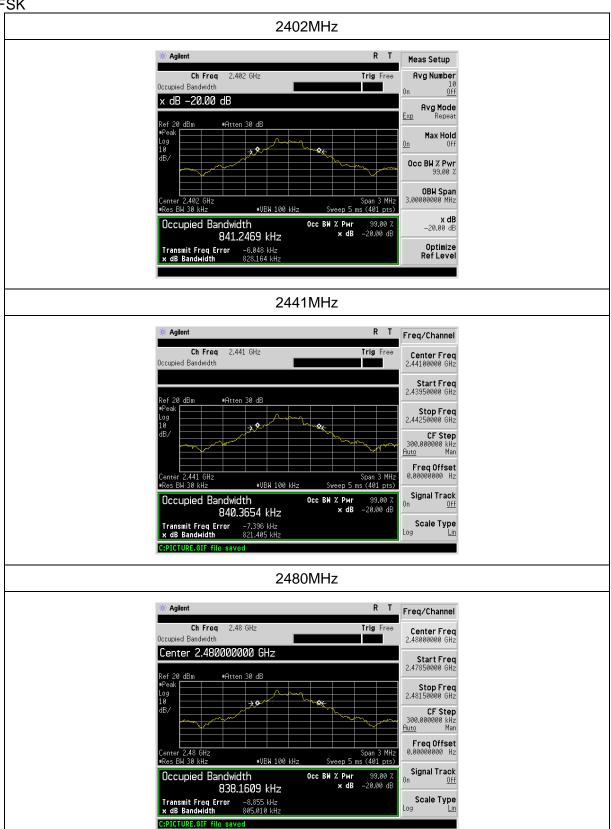
Test plots as below



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GFSK

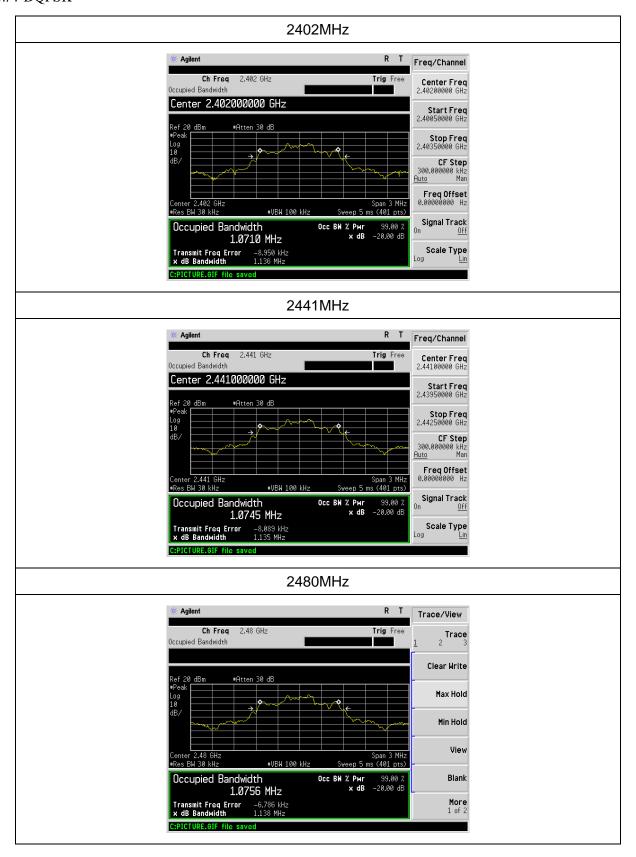




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$\pi/4$ -DQPSK

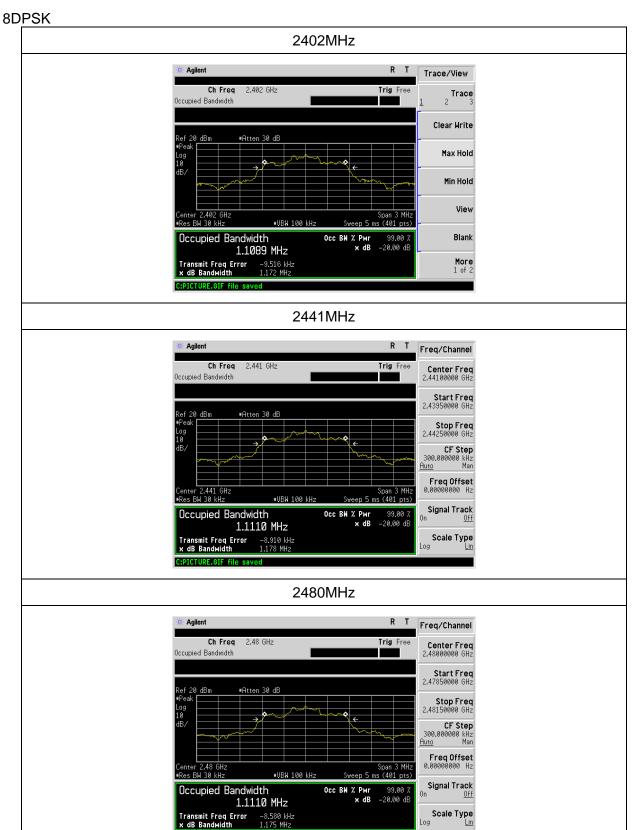




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4.5 Carrier frequency separation

4.5.1 Limits

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.

4.5.2 **Test method**

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video Bandwidth (VBW) ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

4.5.3 **Test result**

GFSK

Channels (MHz)	Separation (MHz)	Limit (MHz)
2402-2403	0.998	0.552
2441-2442	1.005	0.548
2479-2480	0.998	0.537

π/4-DQPSK

Channels (MHz)	Separation (MHz)	Limit (MHz)
2402-2403	1.005	0.757
2441-2442	1.005	0.757
2479-2480	1.005	0.759

8DPSK

Channels (MHz)	Separation (MHz)	Limit (MHz)
2402-2403	1.005	0.781
2441-2442	1.005	0.785
2479-2480	1.005	0.783

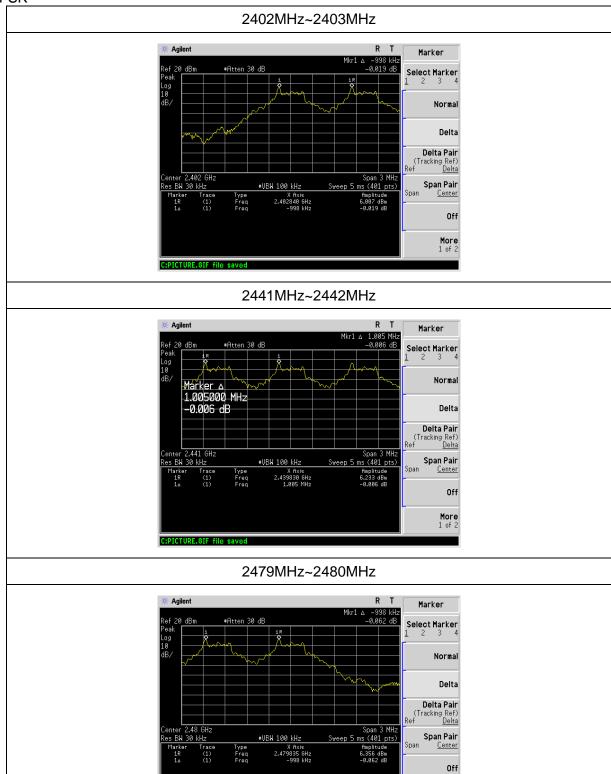
Tel:(86-755)88850135 Fax: (86-755) 88850136 E-mail:mti@51mti.com http://www.mtitest.com Address: No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China



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GFSK



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C:PICTURE.GIF file sav

More 1 of 2



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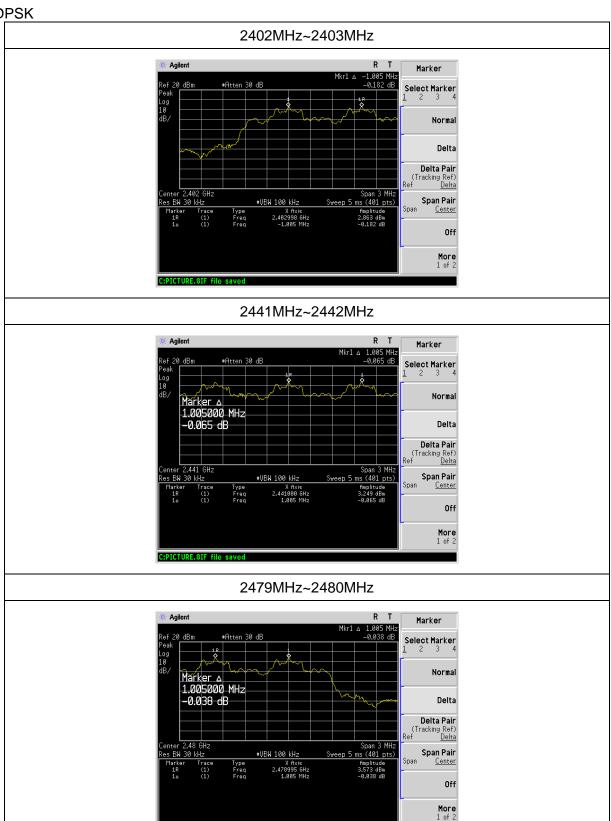
π/4-DQPSK





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8DPSK



C:PICTURE.GIF file save



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4.6 Number of hopping channel

4.6.1 **Limits**

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

4.6.2 Test method

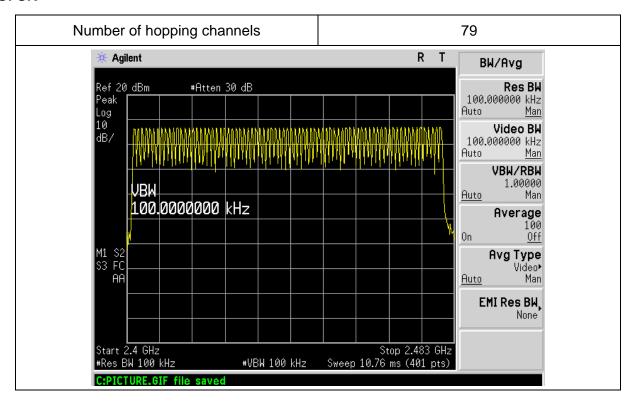
The EUT must have its hopping function enabled. Use the following spectrum analyser settings:

Span = the frequency band of operation RBW ≥1% of the span VBW ≥RBW
Sweep = auto
Detector function = peak
Trace = max hold

Allow the trace to stabilize. It

4.6.3 Test Result

GFSK

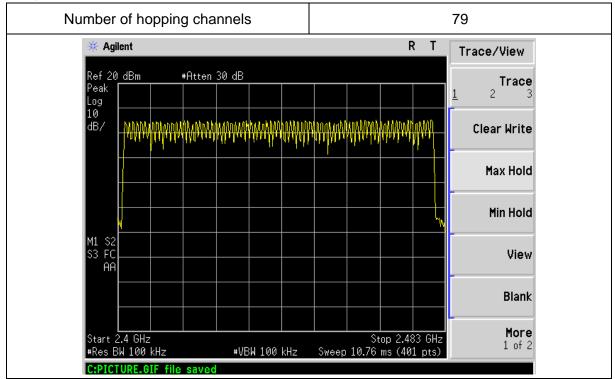




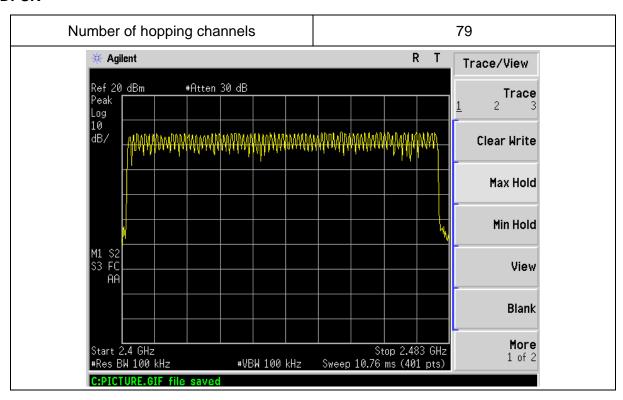
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π/4-DQPSK



8DPSK





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4.7 Time of occupancy (dwell time)

4.7.1 Limit

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.

4.7.2 Test method

The EUT must have its hopping function enabled. Use the following spectrum analyser 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

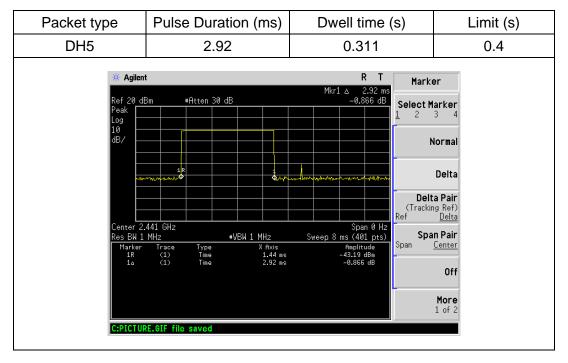
Detector function = peak

Trace = max hold

Use the marker-delta function to determine the dwell time.

4.7.3 Test Result

GFSK



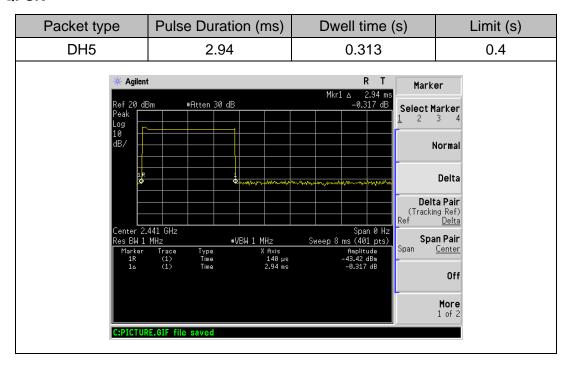
Note: for the worst mode of DH5 packet type, in normal hopping mode, hopping rate is 1600hops/s with 6 slots in 79 hopping channel



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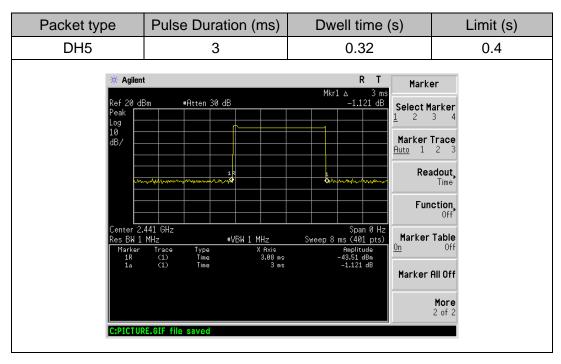






Note: for the worst mode of DH5 packet type, in normal hopping mode, hopping rate is 1600hops/s with 6 slots in 79 hopping channel

8DPSK



Note: for the worst mode of DH5 packet type, in normal hopping mode, hopping rate is 1600hops/s with 6 slots in 79 hopping channel



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4.8 Band edge emission

4.8.1 Limit

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.

4.8.2 Test method

Use the following spectrum analyser settings:

Set RBW =100 kHz. VBW ≥ 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.

4.8.3 Test Result



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Band edge (GFSK mode) 2402MHz - no hop 2402MHz - hop Display Display Full Screen Full Screen Display Line -13.65 dBm Off Display Line -13.63 dBm Off Display Line -13.63 dBm Marker 2.310000000 GHz -47.84 dBm Limits tart 2.31 GHz Res BW 100 kHz Active Fctn Position Center Active Fctn Position Title Title Preferences 2480 - no hop 2480 - hop R T Marker Display Select Marker Full Screen Display Line -13.26 dBm Off Normal Marker 2.478880000 GHz 6.708 dBm Delta Limits Active Fctn Position Center Stop 2.5 GHz ep 4 ms (401 pts) Span Pair Center

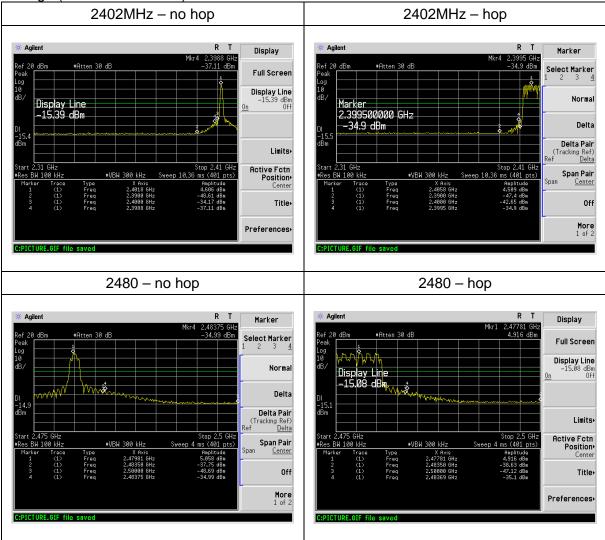
Title

Preferences



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Band edge ($\pi/4$ -DQPSK mode)





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Band edge (8DPSK mode) 2402MHz - no hop 2402MHz - hop R T Marker Marker Select Marker Select Marker Normal Normal 99500000 GHz -35.19 dBm Delta **Delta Pair** (Tracking Ref) Ref <u>Delta</u> **Delta Pair** (Tracking Ref) ef <u>Delta</u> tart 2.31 GHz Res BW 100 kH: Span Pair Center Span Pair Center Off Off More 1 of 2 More 1 of 2 2480 - no hop 2480 - hop R T Display Marker Select Marker Full Screen Display Line -14.74 dBm Off Normal Display Line -14.74 dBm -35.18 dBm Delta Limits Active Fctn Position Center Stop 2.5 GHz ep 4 ms (401 pts) Span Pair Center Title Off

Preferences



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4.9 Radiated emission

4.9.1 Limit

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. Attenuation below the general limits specified in §15.209(a) is not required. 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).

Frequency (MHz)	Field strength µV/m	Field strength dBµV/m	Detector	Measurement distance	
30-88	100	40	QP		
88-216	150	43.5	QP		
216-960	200	46	QP	3m	
960-1000	500	46	QP	SIII	
Above 1000	500	54	AV		
Above 1000	5000	74	PK		

Restricted bands defined in FCC 15.205:

MHz	MHz	MHz	GHz	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
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	Above 38.6	
13.36-13.41				



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4.9.2 Test method

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- 2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 3. Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold

- 4. Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5. The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 3MHz, Detector = RMS for AV value, while maintaining all of the other instrument settings.
- 6. The three orthogonal axis (x, y, z) are pre-tested, only the worst emission were reported.

4.9.3 Test Result



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Radiated emission (GFSK mode)

Transmitter chann	1					
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	
(MHz)	H/V	dBµV/m	dBµV/m			
410.6	V	35.9	40	QP	Door	
410.6	Н	34.5	40	QP		
2390	V	45.72	74	PK		
2390	Н	46.38	74	PK	Pass	
4804	V	50.11	74	PK		
4804	Н	51.84	74	PK		
Transmitter chann	el: 2441MHz					
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	
(MHz)	H/V	dBµV/m	dBµV/m			
410.6	V	37.52	46	QP		
410.6	Н	36.73	46	QP		
4882	V	51.84	74	PK		
4882	Н	51.76	74	PK		
Transmitter chann	el: 2480MHz					
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	
(MHz)	H/V	dBµV/m	dBµV/m			
410.6	V	33.63	40	QP		
410.6	Н	34.92	40	QP		
2483.5	V	43.29	74	PK		
2483.5	Н	44.35	74	PK		
4960	V	51.8	74	PK		
4960	Н	52.69	74	PK		

Note:

If the PK measured values lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.

all three modes (GFSK, $\pi/4$ -DQPSK and 8DPSK modes of EUT have been tested, only the data of worst case GFSK mode is reported.

----END OF REPORT----