

# **FCC** Report

Applicant: Quantum Creations LLC.

Address of Applicant: 16410 NE 19th Avenue Suite 102 North, Miami Beach, Florida United States 33162

## Equipment Under Test (EUT)

Product Name:	Mini PC
Model No.:	A-1062-ABP, A-1062-ABP-1, A-1062-ABP-2, A-1062-ABP-3, A-1062-ABP-4, A-1062-ABP-5, A-1062-ABP-6, A-1062-ABP-7, A-1062-ABP-8
Trade Mark:	Azulle
FCC ID:	2AFJI20161062
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247:2015
Date of sample receipt:	July 11, 2016
Date of Test:	July 12-21, 2016
Date of report issued:	July 22, 2016
Test Result :	PASS *

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

**Robinson Lo** 

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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# 2 Version

Version No.	Date	Description
00	July 22, 2016	Original

Prepared By:

, L'u hn

Date:

July 22, 2016

Project Engineer

Check By:

wa

Date:

July 22, 2016

Reviewer

Global United Technology Services Co., Ltd. No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
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 (a)(1)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10:2013 and ANSI C63.4:2014.

#### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz ± 4.34dB		(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm$ 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm$ 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement u	ncertainty is for coverage factor of	of k=2 and a level of confidence	of 95%.



# 5 General Information

# 5.1 Client Information

Applicant:	Quantum Creations LLC.
Address of Applicant:	16410 NE 19th Avenue Suite 102 North, Miami Beach, Florida United States 33162
Manufacturer:	SHENZHEN MELE STAR TECHNOLOGY LIMITED
Address of Manufacturer:	3F,Bldg#1,28 Cuijing Road, Pingshan New District, Shenzhen, PR China.
Factory:	Shenzhen MeLE Precision Technology Limited
Address of Factory:	3F East,Bldg#1,28 Cuijing Road, Pingshan New District, Shenzhen, PR China.

# 5.2 General Description of EUT

<b>I</b>	
Product Name:	Mini PC
Model No.:	A-1062-ABP, A-1062-ABP-1, A-1062-ABP-2, A-1062-ABP-3,
	A-1062-ABP-4, A-1062-ABP-5, A-1062-ABP-6, A-1062-ABP-7,
	A-1062-ABP-8
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral Antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power Supply:	SWITCHING ADAPTER:
	Model No.:S12B22-120A100-04
	Input: AC 100~240V~50/60Hz 0.5A
	Output: DC 12V 1A

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz



#### 5.3 Test mode

	Transmitting mode	Keep the Bluetooth in continuously transmitting mode			
5.4	Test Facility				
	The test facility is recognized, certified, or accredited by the following organizations: • FCC —Registration No.: 600491 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016. • Industry Canada (IC) —Registration No.: 9079A-2 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by				
	No.: 9079A-2, June 26, 20	ring Bureau of Industry Canada for radio equipment testing with Registration 013.			
5.5	Test Location				
	All tests were performed a	at:			
	Global United Technology	v Services Co., Ltd.			
	No. 301-309, 3/F., Jinyuar District, Shenzhen, Guang	n Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan gdong, China			
	Tel: 0755-27798480				
	Fax: 0755-27798960				
5.6	Other Information R	equested by the Customer			
	None.				
5.7	Description of Supp	ort Units			
	None.				

# 6 Test Instruments list

Radiated Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2016	Mar. 26 2017		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Jun. 25 2016	Jun. 24 2017		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 2017		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Jun. 25 2016	Jun. 24 2017		
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2015	Mar. 26 2016		
17	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017		
18	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017		

Cone	Conducted Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	June 29 2016	June 28 2017			
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 29 2016	June 28 2017			
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 29 2016	June 28 2017			
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017			
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 29 2016	June 28 2017			
6	Coaxial Cable	GTS	N/A	GTS227	June 29 2016	June 28 2017			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			

Gen	General used equipment:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Barometer	ChangChun	DYM3	GTS257	July 06 2016	July 05 2017			



# 7 Test results and Measurement Data

# 7.1 Antenna requirement

Standard requirements	FCC Dort 15 C Sportion 15 202 (247(a))					
Standard requirement:	FCC Part15 C Section 15.203 /247(c)					
15.203 requirement:						
responsible party shall be us antenna that uses a unique	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, 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.					
15.247(c) (1)(i) requiremen	t:					
operations may employ tran	2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point smitting antennas with directional gain greater than 6dBi provided the power of the intentional radiator is reduced by 1 dB for every 3 dB that the na exceeds 6dBi.					
E.U.T Antenna:						
The antenna is Integral antenna,	the best case gain of the antenna is 2dBi					
	Patent No. US 8,106,833 B2 BT ANT					

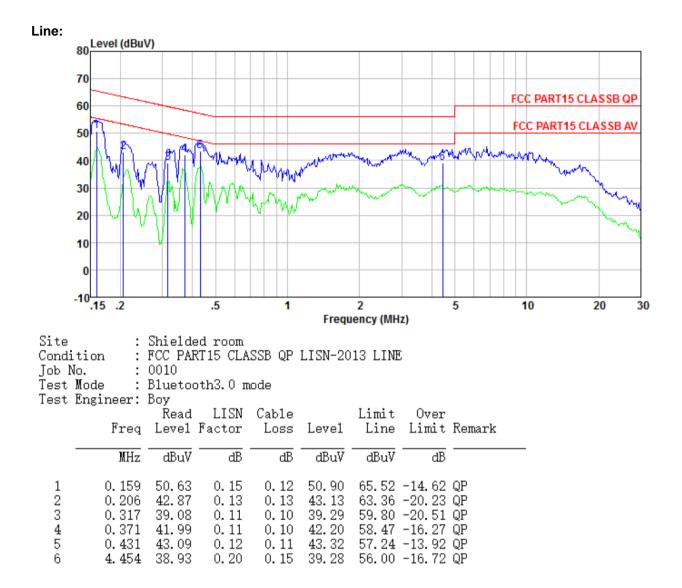


Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
Test Frequency Range:	150KHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	RBW=9KHz, VBW=30KHz, Sweep time=auto		
Limit:	Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
 	* Decreases with the logarithm	n of the frequency.		
Test setup:	Reference Plane		-	
	AUX     Filter     AC power       Equipment     E.U.T     EMI       Test table/Insulation plane     EMI       Remark:     E.U.T. Equipment Under Test       LISN: Line Impedence Stabilization Network       Test table height=0.8m			
Test procedure:	1. The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). Th	nis provides a	
	<ol> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</li> </ol>			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

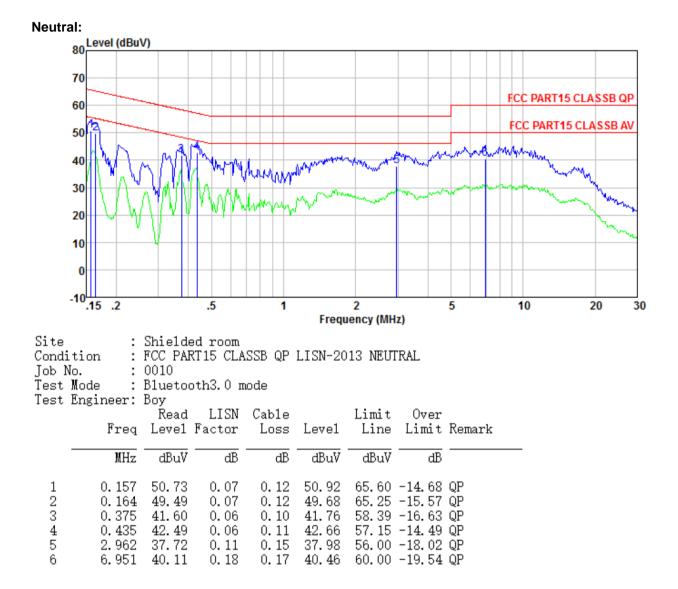
# 7.2 Conducted Emissions

#### Measurement data:









Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level =Receiver Read level + LISN Factor + Cable Loss

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10:2013	
Limit:	30dBm	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Pass	

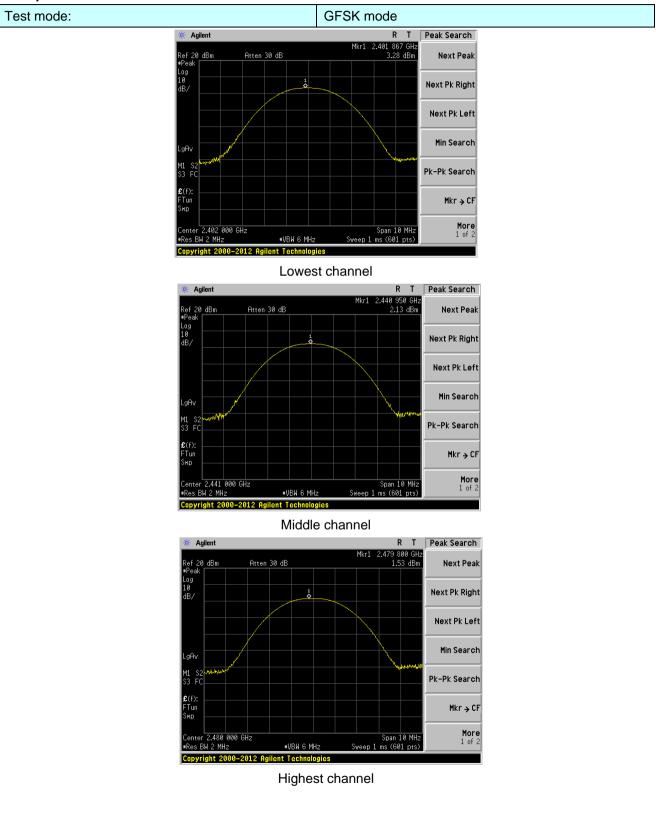
# 7.3 Conducted Peak Output Power

#### **Measurement Data**

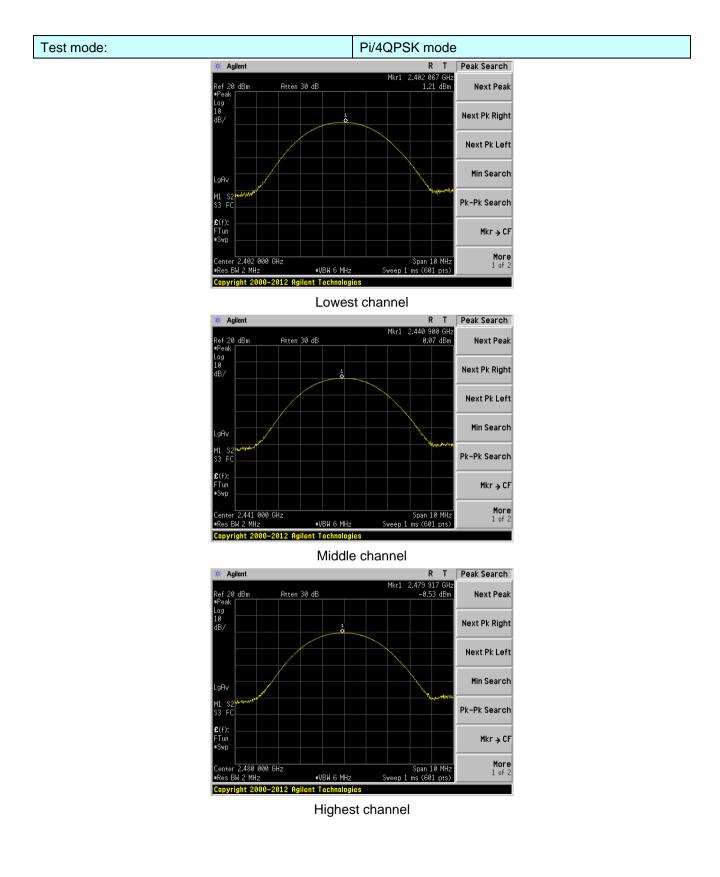
Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	3.28		
GFSK	Middle	2.13	30.00	Pass
	Highest	1.53		
	Lowest	1.21		
Pi/4QPSK	Middle	0.07	30.00	Pass
	Highest	-0.53		
	Lowest	-0.49		
8DPSK	Middle	-1.64	30.00	Pass
	Highest	-2.24		



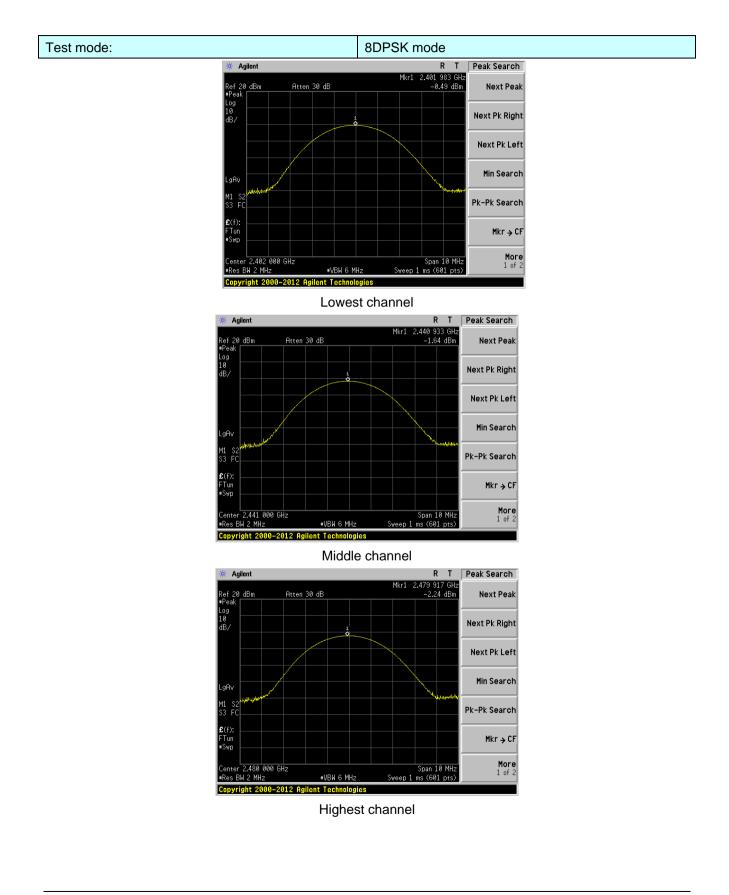
#### Test plot as follows:













Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
Test Method:	ANSI C63.10:2013	
Limit:	N/A	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Pass	

# 7.4 20dB Emission Bandwidth

#### **Measurement Data**

Mode	Test channel	20dB Emission Bandwidth (MHz)	Result	
	Lowest	0.950		
GFSK	Middle	0.961	Pass	
	Highest	0.974		
	Lowest	1.473		
Pi/4QPSK	Middle	1.493	Pass	
	Highest	1.445		
	Lowest	1.463		
8DPSK	Middle	1.482		
	Highest	1.494		

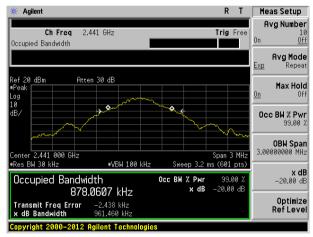


#### Test plot as follows:

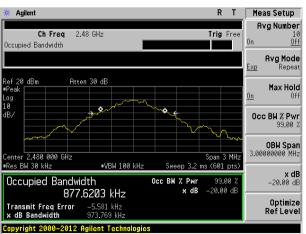
#### Test mode:

	GFSK mode	
* Agilent	RT	Meas Setup
Ch Freq 2.402 GHz Occupied Bandwidth	Trig Free	Avg Number 10 On <u>Off</u>
		Avg Mode Exp Repeat
Ref 20 dBm Atten 30 dB		Max Hold On Off
10 dB/		Occ BW % Pwr 99.00 %
Center 2.402 000 GHz	Span 3 MHz	<b>OBW Span</b> 3.00000000 MHz
•Res BW 30 kHz •VBW 100 kHz Occupied Bandwidth 857,4511 kHz	z Sweep 3.2 ms (601 pts) Occ BW X Pwr 99.00 % × dB -20.00 dB	<b>x dB</b> -20.00 dB
Transmit Freq Error -8.180 kHz × dB Bandwidth 949.881 kHz		Optimize RefLevel

#### Lowest channel



Middle channel



Highest channel

#### Test mode:

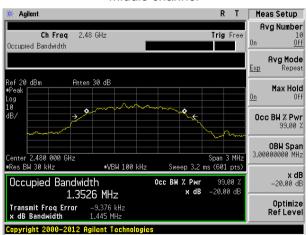
Pi/4QPSK mode

🔆 Agilent		RТ	Meas Setup
Ch Freq 2.402 GHz Occupied Bandwidth	Tri	g Free	Avg Number 10 On <u>Off</u>
			Avg Mode Exp Repeat
			Max Hold On Off
dB/			Occ BW % Pwr 99.00 %
Center 2.402 000 GHz		1 3 MHz	<b>OBW Span</b> 3.00000000 MHz
*Res BW 30 kHz *VBW 1 Occupied Bandwidth 1.3593 MHz		01 pts) 9.00 % .00 dB	<b>x dB</b> -20.00 dB
Transmit Freq Error         -8.100 kHz           x dB Bandwidth         1.473 MHz			Optimize Ref Level
Copyright 2000-2012 Agilent Tech	nologies		

Lowest channel

* Agilent R T	Meas Setup
Ch Freq 2.441 GHz Trig Free Occupied Bandwidth	Avg Number 10 On <u>Off</u>
	Avg Mode Exp Repeat
Ref 20 dBm Atten 30 dB #Peak 10	Max Hold On Off
	Occ BW % Pwr 99.00 %
Center 2.441 000 GHz Span 3 MHz •Res BW 30 kHz •VBW 100 kHz Sweep 3.2 ms (601 pts)	0BW Span 3.00000000 MHz
Оссирied Bandwidth         Осс ВМ % Рыг         99.00 %           1.3641 MHz         × dB         -20.00 dB	<b>x dB</b> -20.00 dB
Transmit Freq Error -5.213 kHz × dB Bandwidth 1.493 MHz Copyright 2000-2012 Agilent Technologies	Optimize Ref Level

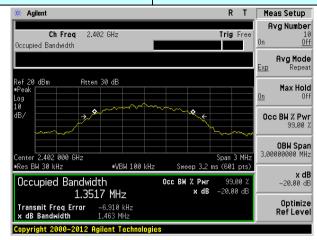
Middle channel



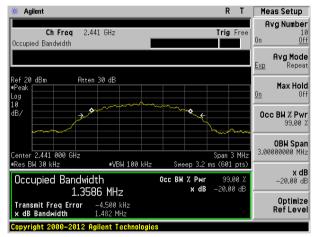
Highest channel

#### Test mode:

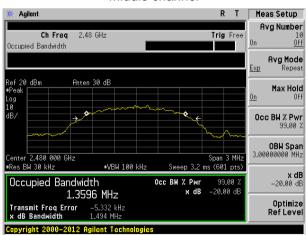
8DPSK mode



Lowest channel



Middle channel



Highest channel

-		
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2013	
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak	
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Pass	

# 7.5 Carrier Frequencies Separation

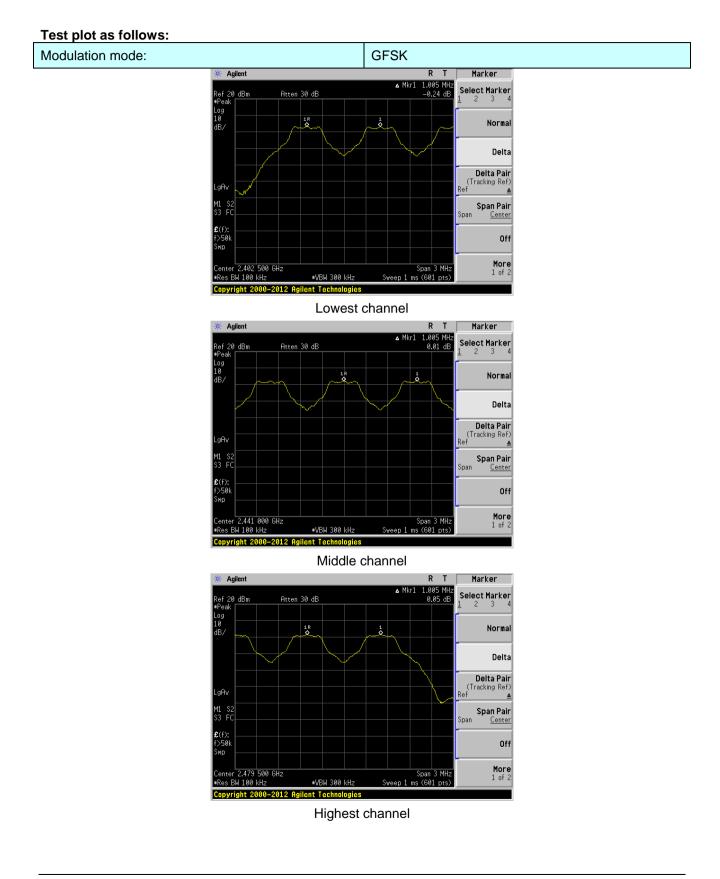
#### **Measurement Data**

Mode	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
	Lowest	1005	649	Pass
GFSK	Middle	1005	649	Pass
	Highest	1005	649	Pass
Pi/4QPSK	Lowest	1005	995	Pass
	Middle	1005	995	Pass
	Highest	1005	995	Pass
	Lowest	1005	996	Pass
8DPSK	Middle	1005	996	Pass
	Highest	1005	996	Pass

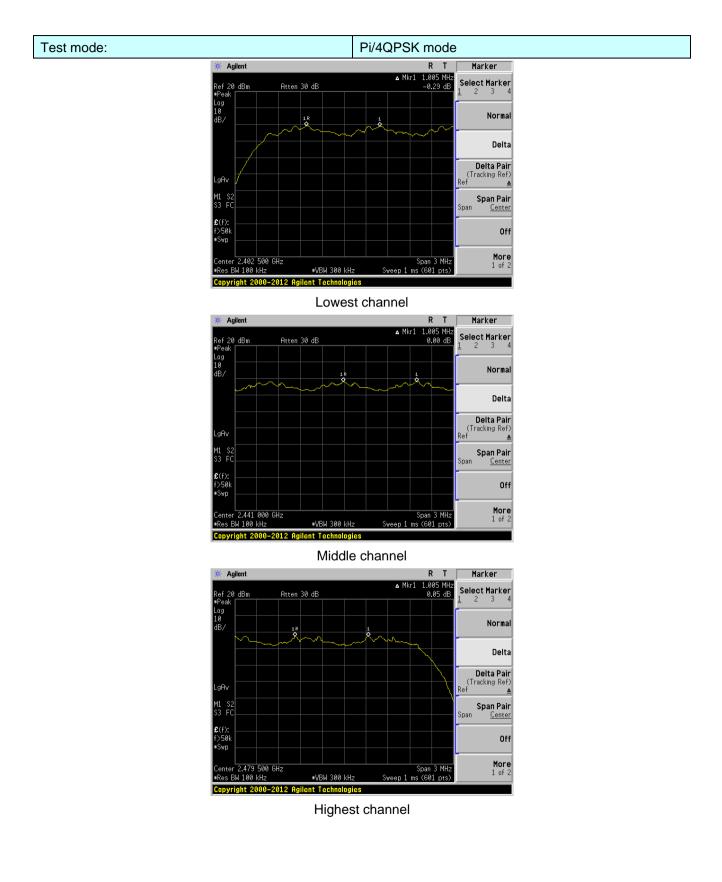
#### Note: According to section 7.4

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	974	649
Pi/4QPSK	1493	995
8DPSK	1494	996

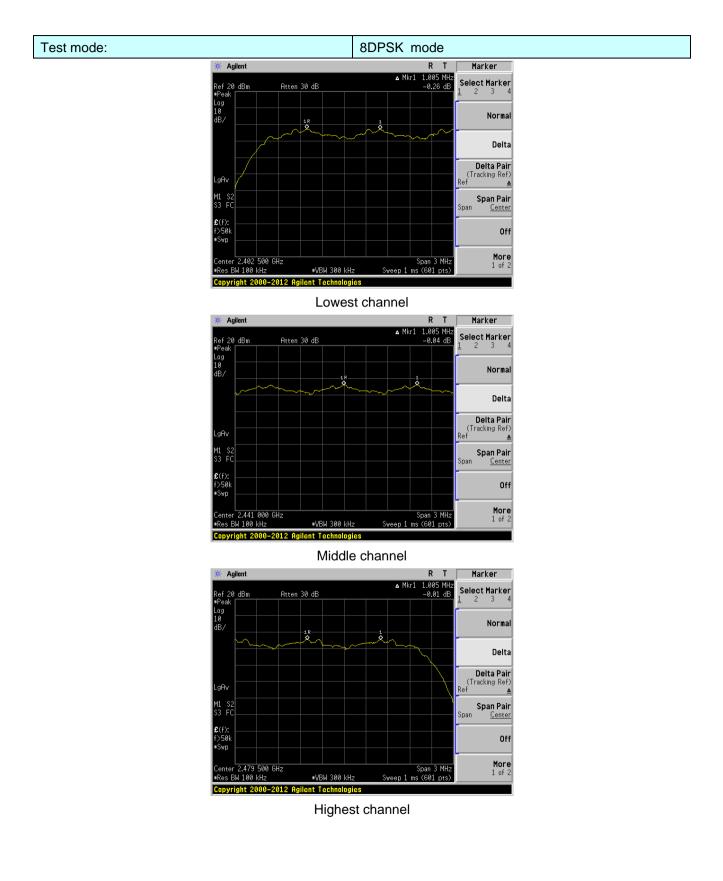














Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

# 7.6 Hopping Channel Number

#### Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK	79	15	Pass
Pi/4QPSK	79	15	Pass
8DPSK	79	15	Pass

🔆 Agilent					RT	. Marker
Ref 20 dBm #Peak	Atte	n 30 dB		Mkr2	2.480 02 G 0.92 dE	
Log 10 dB/	MANAMAN	Minimatika Minimatik	<u>ANN ANN AN</u>	VYVVVV		Normal
						Delta
LgAv						T Delta Pair (Tracking Ref) Ref ▲
Start 2.400 0 #Res BW 100   Marker Ti			300 kHz X fixis		2.483 50 G ms (601 pt Amplitude	
	(1) Fr	eq :	2.401 81 GHz 2.480 02 GHz		3.00 dBm 0.92 dBm	Off
		Igilent Tec				More 1 of 2



#### 7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak				
Limit:	0.4 Second				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

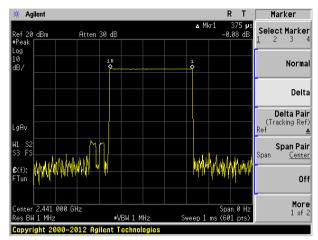
#### Measurement Data:

Frequency (MHz)	Packet	Dwell time(ms)	Limit(ms)	Result
2441	DH1	120.00	400	Pass
2441	DH3	260.80	400	Pass
2441	DH5	305.81	400	Pass

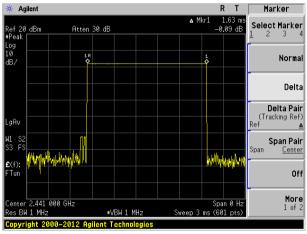
The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

DH1 time slot=0.375(ms)\*(1600/ (2\*79))\*31.6=120.00ms DH3 time slot=1.63(ms)\*(1600/ (4\*79))\*31.6=260.80ms DH5 time slot=2.867(ms)\*(1600/ (6\*79))\*31.6=305.81ms

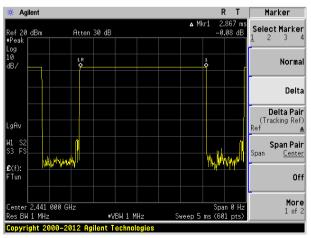
#### Test plot as follows:



DH1/2-DH1/3-DH1



#### DH3/2-DH3/3-DH3



DH5/2-DH5/3-DH5

7.8	Pseudorandom Frequ	ency Hopping Sequence
	Test Requirement:	FCC Part15 C Section 15.247 (a)(1) requirement:
		s shall have hopping channel carrier frequencies separated by a minimum of idth of the hopping channel, whichever is greater.
	channel carrier frequencies hopping channel, whichever than 125 mW. The system s from a Pseudorandom order average by each transmitter	oping systems operating in the 2400-2483.5 MHz band may have hopping that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the r is greater, provided the systems operate with an output power no greater shall hop to channel frequencies that are selected at the system hopping rate red list of hopping frequencies. Each frequency must be used equally on the r. The system receivers shall have input bandwidths that match the hopping corresponding transmitters and shall shift frequencies in synchronization
	EUT Pseudorandom Frequ	ency Hopping Sequence
	outputs are added in a mod	sequence: $2^9 - 1 = 511$ bits
	Linear Feedback S	Shift Register for Generation of the PRBS sequence
		om Frequency Hopping Sequence as follow:
	0 2 4 6	62 64 78 1 73 75 77
	The system receivers have	ly on the average by each transmitter. input bandwidths that match the hopping channel bandwidths of their and shift frequencies in synchronization with the transmitted signals.

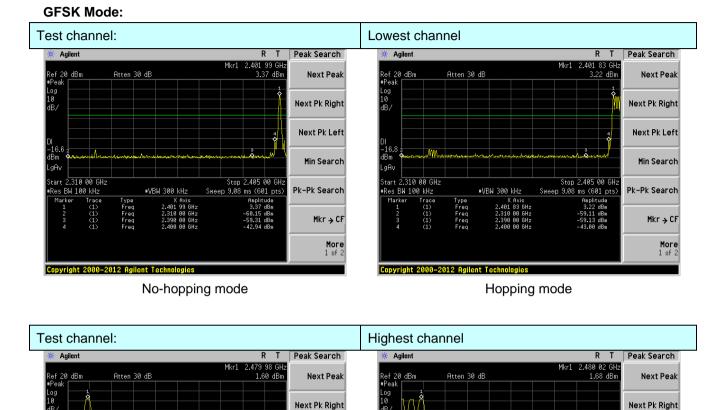
# 7.9 Band Edge

#### 7.9.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013			
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak			
Limit:	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 setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

Test plot as follows:





Next Pk Left

Min Search

Pk-Pk Search

Mkr→CF

More 1 of 2



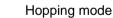
≢VBW 300 kHz

2.478 00 GHz

BW 100 kH:

tari

Stop 2.500 00 GH; Sweep 2.12 ms (601 pts)



#VBW 300 kHz

2

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2.478 00 GHz

BW 100 kHz

itart

Stop 2.500 00 GHz Sweep 2.12 ms (601 pts) Next Pk Left

Min Search

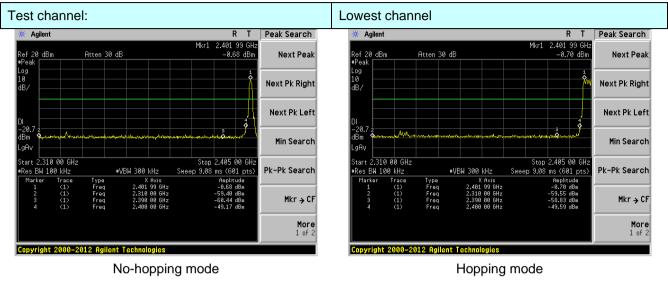
Mkr → CF

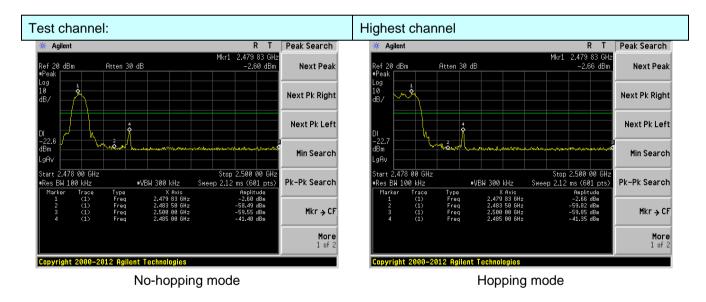
More 1 of 2

Pk-Pk Search



#### Pi/4QPSK Mode:







Next Pk Right

Next Pk Left

Min Search

Mkr → CF

More 1 of 2

Pk-Pk Search



Next Pk Right

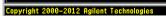
Next Pk Left

Min Search

Pk-Pk Search

Mkr→CF

More 1 of 2



2.478 00 GHz

BW 100 kH:

tart

No-hopping mode

≢VBW 300 kHz

Stop 2.500 00 GH; Sweep 2.12 ms (601 pts)



#VBW 300 kHz

2.478 00 GHz

BW 100 kHz

tart

Hopping mode

Stop 2.500 00 GHz Sweep 2.12 ms (601 pts)

<ul> <li>ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the</li> </ul>	7.9.2 Radiated Emission M						
Test Frequency Range:       All restriction band have been tested, and 2.3GHz to 2.5GHz band is the worse case         Test site:       Measurement Distance: 3m         Receiver setup:       Frequency       Detector       RBW       VBW       Remark         Above 1GHz       Peak       1MHz       3MHz       Peak Value         Limit:       Frequency       Limit (dBuV/m @3m)       Remark         Above 1GHz       54.00       Average Value         Test setup:       Image: the setup is	· · · · · · · · · · · · · · · · · · ·						
Worse case           Test site:         Measurement Distance: 3m           Receiver setup:         Frequency         Detector         RBW         VBW         Remark           Above 1GHz         Peak         1MHz         3MHz         Peak Value           Limit:         Frequency         Limit (BL/W/M @ 3m)         Remark           Above 1GHz         54.00         Average Value           Test setup:         Image: Comparison of the tight of the ti	Test Method:	ANSI C63.10:2013					
Receiver setup:       Frequency       Detector       RBW       VBW       Remark         Above 1GHz       Peak       10Hz       30Hz       Peak Value         Limit:       Frequency       Limit (BuV/m @ 3m)       Remark         Above 1GHz       54.00       Average Value         Test setup:       Frequency       Limit (BuV/m @ 3m)       Remark         Test setup:       Image: Comparison of the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.         Test Procedure:       1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.         The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.         The antenna height is varied from one metro four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.         For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.         The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.       Imaximum reading.         The test-receiver system was se	Test Frequency Range:						
Above 1GHz       Peak       1MHz       3MHz       Peak Value         Limit:       Frequency       Limit (dBu//m @3m)       Remark         Above 1GHz       54.00       Average Value         Test setup:       Image: Comparison of the test of	Test site:	Measurement D	istance: 3m				
Above 1GH2       Peak       1MHz       10Hz       Average Value         Limit:       Frequency       Limit (dBuV/m @3m)       Remark         Above 1GHz       74.00       Peak Value         Test setup:       Image: the setup is the setu	Receiver setup:	Frequency					
Limit:       Frequency       Limit (dBuV/m @ 3m)       Remark         Above 1GHz       54.00       Average Value         Test setup:       Image: Construction of the setup of the s		Above 1GHz					
Above 1GHz       54.00       Average Value         Test setup:       Image: Construction of the setup o	1 ::	Eroquo					
Above 1GHz       74.00       Peak Value         Test setup:       Image: Constraint of the setup of the	Limit:						
Test Procedure:       1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.         2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.         3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.         4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.         5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.         6. If the emission level of the EUT in peak mode was 10dB lower than the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be reported one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.         Test Instruments:       Refer to section 6.0 for details		Above 1	GHz			_	
<ul> <li>ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>Test Instruments: Refer to section 6.0 for details</li> </ul>	l est setup:	EUT Turn Table J.Sm Horn Antenna Spectrum Analyzer					
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.Test Instruments:Refer to section 6.0 for details	Test Procedure:	<ul> <li>determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both</li> </ul>					
Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.Test Instruments:Refer to section 6.0 for details		4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the					
limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.Test Instruments:Refer to section 6.0 for details		5. The test-receiver system was set to Peak Detect Function and					
		limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or					
Test mode: Refer to section 5.3 for details	Test Instruments:	Refer to section	6.0 for detail	S			
	Test mode:	Refer to section	5.3 for detail	S			

### 7.9.2 Radiated Emission Method

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	Test results: Pass							
which it	is worse cas	se.				and found the		
		the place mo	de (X-axis,			d the X-axis	which it is v	vorse case.
Test channe	l:			Lowe	est			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	40.11	27.59	5.38	30.18	42.90	74.00	-31.10	Horizontal
2400.00	56.50	27.58	5.39	30.18	59.29	74.00	-14.71	Horizontal
2390.00	40.39	27.59	5.38	30.18	43.18	74.00	-30.82	Vertical
2400.00	58.24	27.58	5.39	30.18	61.03	74.00	-12.97	Vertical
Average val	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	31.29	27.59	5.38	30.18	34.08	54.00	-19.92	Horizontal
2400.00	42.36	27.58	5.39	30.18	45.15	54.00	-8.85	Horizontal
2390.00	31.03	27.59	5.38	30.18	33.82	54.00	-20.18	Vertical
2400.00	43.74	27.58	5.39	30.18	46.53	54.00	-7.47	Vertical
Test channe	l:			High	est			
Peak value:				•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	41.88	27.53	5.47	29.93	44.95	74.00	-29.05	Horizontal
2500.00	41.58	27.55	5.49	29.93	44.69	74.00	-29.31	Horizontal
2483.50	42.27	27.53	5.47	29.93	45.34	74.00	-28.66	Vertical
2500.00	42.32	27.55	5.49	29.93	45.43	74.00	-28.57	Vertical
Average va	<b>.</b>	-	-	-	-	-		-

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	34.08	27.53	5.47	29.93	37.15	54.00	-16.85	Horizontal
2500.00	32.48	27.55	5.49	29.93	35.59	54.00	-18.41	Horizontal
2483.50	35.06	27.53	5.47	29.93	38.13	54.00	-15.87	Vertical
2500.00	32.17	27.55	5.49	29.93	35.28	54.00	-18.72	Vertical

Remark:

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.

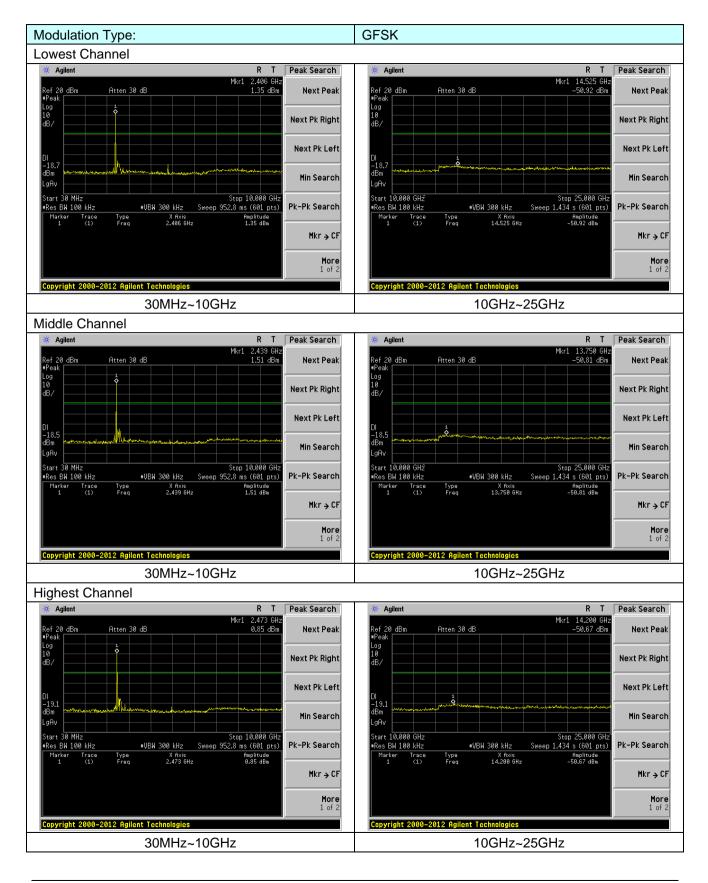
Global United Technology Services Co., Ltd. No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

# 7.10 Spurious Emission

#### 7.10.1 Conducted Emission Method

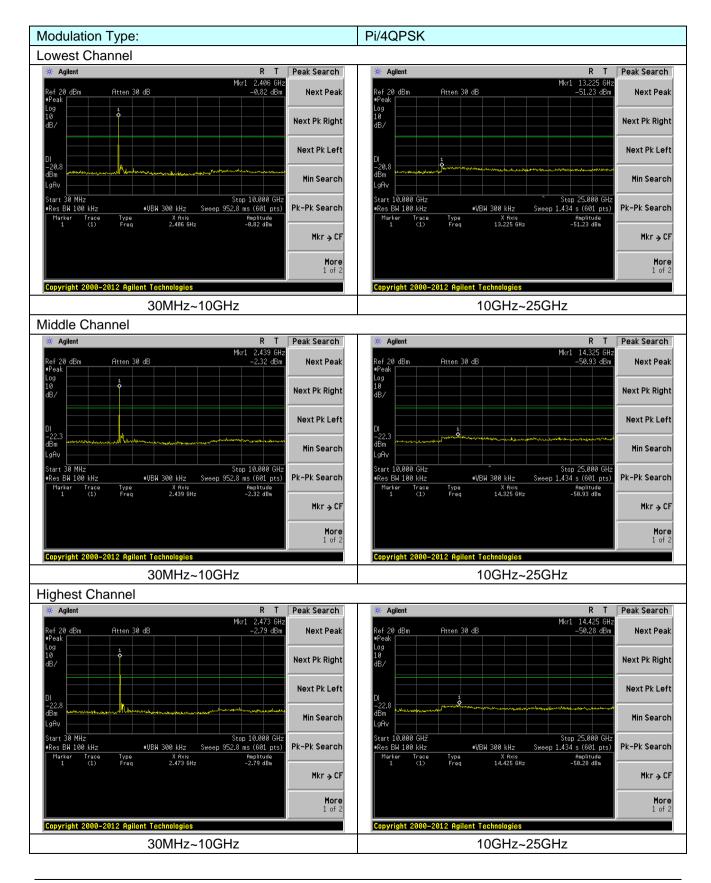
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 Meas Guidance				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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 coSSSnducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				





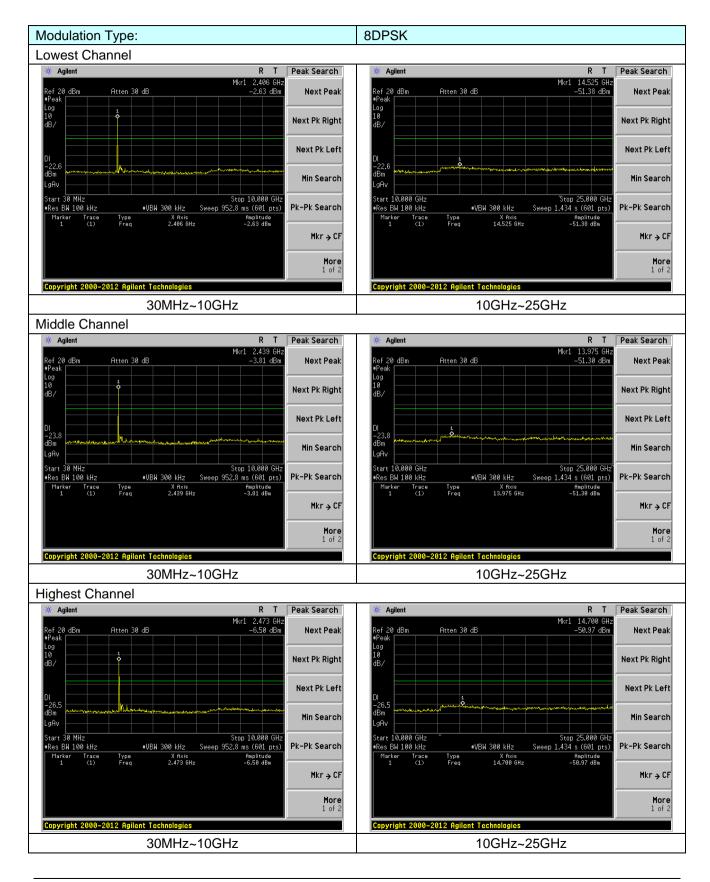
Global United Technology Services Co., Ltd. No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





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Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	30MHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency Detector RBW VBW Remark							
	30MHz- 1GHz	Quasi-peal	120KHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Above IGHZ	Peak	1MHz	10Hz	Average Value			
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark			
	30MHz-8	8MHz	40.0	C	Quasi-peak Value			
	88MHz-2	16MHz	43.	5	Quasi-peak Value			
	216MHz-9	60MHz	46.0	C	Quasi-peak Value			
	960MHz-	-1GHz	54.0	C	Quasi-peak Value			
	Above 1GHz		54.0	C	Average Value			
	Above	GHZ	74.0	0	Peak Value			
Test setup:	Below 1GHz FUT Tum 0.8m Ground Plane Above 1GHz							

## 7.10.2 Radiated Emission Method



	EUT Turn Table L.5m Antenna Tower Horn Antenna Spectrum Analyzer Amplifier
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

1. During the test, pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



#### Measurement data:

■ Below 1	GHz							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
30.11	43.43	14.33	0.55	30.10	28.21	40.00	-11.79	Vertical
50.23	40.99	15.25	0.77	30.00	27.01	40.00	-12.99	Vertical
133.62	57.35	10.67	1.46	29.49	39.99	43.50	-3.51	Vertical
172.00	47.25	11.10	1.70	29.31	30.74	43.50	-12.76	Vertical
305.68	46.66	15.13	2.39	29.96	34.22	46.00	-11.78	Vertical
801.79	44.19	22.06	4.46	29.20	41.51	46.00	-4.49	Vertical
56.00	39.21	14.95	0.83	29.95	25.04	40.00	-14.96	Horizontal
132.69	57.34	10.72	1.45	29.50	40.01	43.50	-3.49	Horizontal
256.52	51.89	14.06	2.16	29.70	38.41	46.00	-7.59	Horizontal
428.02	41.22	17.51	2.99	29.44	32.28	46.00	-13.72	Horizontal
801.79	42.87	22.06	4.46	29.20	40.19	46.00	-5.81	Horizontal
925.76	38.68	23.28	4.95	29.10	37.81	46.00	-8.19	Horizontal



#### Above 1GHz

Test channel	:				Lowest			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	38.72	31.78	8.60	32.09	47.01	74.00	-26.99	Vertical
7206.00	32.77	36.15	11.65	32.00	48.57	74.00	-25.43	Vertical
9608.00	32.31	37.95	14.14	31.62	52.78	74.00	-21.22	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	43.30	31.78	8.60	32.09	51.59	74.00	-22.41	Horizontal
7206.00	34.65	36.15	11.65	32.00	50.45	74.00	-23.55	Horizontal
9608.00	31.86	37.95	14.14	31.62	52.33	74.00	-21.67	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal
Average val	ue:				·			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.27	31.78	8.60	32.09	35.56	54.00	-18.44	Vertical
7206.00	21.30	36.15	11.65	32.00	37.10	54.00	-16.90	Vertical
9608.00	20.29	37.95	14.14	31.62	40.76	54.00	-13.24	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	31.66	31.78	8.60	32.09	39.95	54.00	-14.05	Horizontal
7206.00	23.56	36.15	11.65	32.00	39.36	54.00	-14.64	Horizontal
9608.00	20.13	37.95	14.14	31.62	40.60	54.00	-13.40	Horizontal
12010.00	*					54.00		Horizontal

Remark:

14412.00

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. "\*", means this data is the too weak instrument of signal is unable to test.

Horizontal

54.00



Test channel	:			Midd	le channel			
Peak value:				•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	37.35	31.85	8.67	32.12	45.75	74.00	-28.25	Vertical
7323.00	31.86	36.37	11.72	31.89	48.06	74.00	-25.94	Vertical
9764.00	31.49	38.35	14.25	31.62	52.47	74.00	-21.53	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	41.64	31.85	8.67	32.12	50.04	74.00	-23.96	Horizontal
7323.00	33.62	36.37	11.72	31.89	49.82	74.00	-24.18	Horizontal
9764.00	30.92	38.35	14.25	31.62	51.90	74.00	-22.10	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal
Average val	ue:				<u> </u>			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	26.17	31.85	8.67	32.12	34.57	54.00	-19.43	Vertical
7323.00	20.55	36.37	11.72	31.89	36.75	54.00	-17.25	Vertical
9764.00	19.62	38.35	14.25	31.62	40.60	54.00	-13.40	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	30.40	31.85	8.67	32.12	38.80	54.00	-15.20	Horizontal
7323.00	22.73	36.37	11.72	31.89	38.93	54.00	-15.07	Horizontal
9764.00	19.36	38.35	14.25	31.62	40.34	54.00	-13.66	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

Remark:

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. "\*", means this data is the too weak instrument of signal is unable to test.



Test channel	:			Highe	est channel			
Peak value:				·				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	36.18	31.93	8.73	32.16	44.68	74.00	-29.32	Vertical
7440.00	31.09	36.59	11.79	31.78	47.69	74.00	-26.31	Vertical
9920.00	30.81	38.81	14.38	31.88	52.12	74.00	-21.88	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.24	31.93	8.73	32.16	48.74	74.00	-25.26	Horizontal
7440.00	32.74	36.59	11.79	31.78	49.34	74.00	-24.66	Horizontal
9920.00	30.12	38.81	14.38	31.88	51.43	74.00	-22.57	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.26	31.93	8.73	32.16	33.76	54.00	-20.24	Vertical
7440.00	19.93	36.59	11.79	31.78	36.53	54.00	-17.47	Vertical
9920.00	19.08	38.81	14.38	31.88	40.39	54.00	-13.61	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.37	31.93	8.73	32.16	37.87	54.00	-16.13	Horizontal
7440.00	22.04	36.59	11.79	31.78	38.64	54.00	-15.36	Horizontal
9920.00	18.72	38.81	14.38	31.88	40.03	54.00	-13.97	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

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.

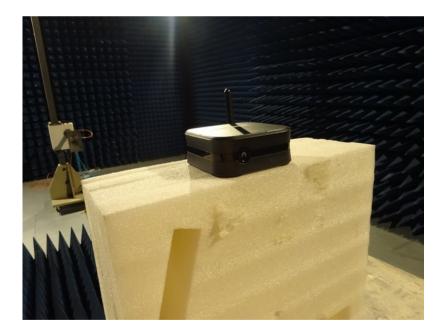
3. "\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission







Conducted Emission

# 9 EUT Constructional Details

Reference to the test report No. GTS201607000010E01

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