Shenzhen Huatongwei International Inspection Co., Ltd.



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TEST REPORT

Report Reference No......: TRE1505008702 R/C......80572

FCC ID.....: 2AAP6M1066

Applicant's name.....: SHENZHEN ZOWEE TECHNOLOGY CO., LTD.

Address...... Science &Technology Industrial Park of Privately

Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR

CHINA

Manufacturer...... SHENZHEN ZOWEE TECHNOLOGY CO., LTD.

Address...... Science &Technology Industrial Park of Privately

Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR

CHINA

Test item description: Tablet PC

Trade Mark NOVISION,TMAX,DOPO,NOBIS,APEX

Model/Type reference...... M1066

NB6533S,NB8754

Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of testing...... May 16, 2015 ~ May 25, 2015

Date of issue...... May 25, 2015

Result...... PASS

Testing Laboratory Name:

Compiled by

(position+printed name+signature)..: File administrators Any Yang

Supervised by

(position+printed name+signature)..: Project Engineer Lion Cai

(ion Car

Approved by

(position+printed name+signature)..: RF Manager Hans Hu

Shenzhen Huatongwei International Inspection Co., Ltd

Address...... Bldg3, Hongfa Hi-tech Industrial Park, Genyu Road, Shenzhen,

China

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1. TEST STANDARDS AND TEST 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 for Testing Unlicensed Wireless Devicese

1.2. Test Description

Report Section	Test Item	Section in CFR 47	Result
4.1	Antenna Requirement	15.203/15.247 (c)	Pass
4.2	4.2 AC Power Line Conducted Emission 15.207		Pass
4.3	Conducted Peak Output Power	15.247 (b)(1)	Pass
4.4	20dB Occupied Bandwidth	15.247 (a)(1)	Pass
4.5	Carrier Frequencies Separation	15.247 (a)(1)	Pass
4.6	Hopping Channel Number	15.247 (a)(1)	Pass
4.7	Dwell Time	15.247 (a)(1)	Pass
4.8	Pseudorandom Frequency Hopping Sequence	15.247(b)(4)&TCB Exclusion List (7 July 2002)	Pass
4.9	Restricted band	15.247(d)/15.205	Pass
4.10/4.11	Radiated Emission	15.247(d)/15.209	Pass

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

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2. SUMMARY

2.1. Client Information

Applicant:	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.	
Address:	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA	
Manufacturer:	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.	
Address:	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA	

2.2. Product Description

Name of EUT	Tablet PC	
Trade Mark:	NOVISION,TMAX,DOPO,NOBIS,APEX,DAGE	
Model No.:	M1066	
Listed Model(s):	TM101A530L,TM701A520L,NB9000,TM802C301S,NB6533S,NB8754	
Power supply:	DC 3.7V From internal battery	
Adapter information:	Model:JK050200-S04USA Input:100-240Va.c., 50/60Hz 0.5A Output: 5Vd.c., 2A	
Bluetooth		
Bluetooth Version:	Supported BT4.0+EDR	
	Supported BT4.0+EDR GFSK, π/4DQPSK, 8DPSK	
Version:	1.7	
Version: Modulation:	GFSK, π/4DQPSK, 8DPSK	
Version: Modulation: Operation frequency:	GFSK, π/4DQPSK, 8DPSK 2402MHz~2480MHz	
Version: Modulation: Operation frequency: Channel number:	GFSK, π/4DQPSK, 8DPSK 2402MHz~2480MHz 79	

2.3. 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

◆ Test mode

For RF test items:

the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions:

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

2.4. EUT configuration

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

- supplied by the manufacturer
- O supplied by the lab

0	Power Cable	Length (m):	1
		Shield :	1
		Detachable :	1
0	Multimeter	Manufacturer :	1
		Model No. :	1

2.5. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming) Address: Bldg3, Hongfa Hi-tech Industrial Park, Genyu Road, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

3.2. 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/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 2243.01

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. Valid time is until Sept 30, 2015.

FCC-Registration No.: 662850

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 662850, Renewal date Jul. 01, 2012, valid time is until Jun. 01, 2015.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming 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, Renewal date July 18, 2014, valid time is until July. 18, 2017.

IC-Registration No.: 5377A

The 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. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

IC-Registration No.: 5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming EMC Laboratory) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on September 3, 2014, valid time is until September 3, 2017.

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.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

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3.3. 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

3.4. 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 compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment 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 Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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3.5. Equipments Used during the Test

Condi	Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal	
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2014/11/01	
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2014/11/01	
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2014/11/01	
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A	

Radia	Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal	
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2014/11/01	
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2014/11/01	
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	HORN ANTENNA	ShwarzBeck	9120D	1011	2014/11/01	
8	Amplifer	Sonoma	310N	E009-13	2014/11/01	
9	JS amplifer	Rohde&Schwarz	JS4-00101800- 28-5A	F201504	2014/11/01	
10	High pass filter	Compliance Direction systems	BSU-6	34202	2014/11/01	
11	HORN ANTENNA	ShwarzBeck	9120D	1012	2014/11/01	
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2014/11/01	
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2014/11/01	
14	TURNTABLE	MATURO	TT2.0		N/A	
15	ANTENNA MAST	MATURO	TAM-4.0-P		N/A	
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2014/11/01	
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2014/11/01	

	Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission				
Item	Item Test Equipment Manufacturer Model No. Serial No. Last Cal				
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2014/11/01

The Cal.Interval was one year

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4. TEST CONDITIONS AND RESULTS

4.1. 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 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.

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 6dBi 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 6dBi.

Test Result:

The antenna is integral antenna, the best case gain of the antenna is 1.23dBi



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4.2. Conducted Emission (AC Main)

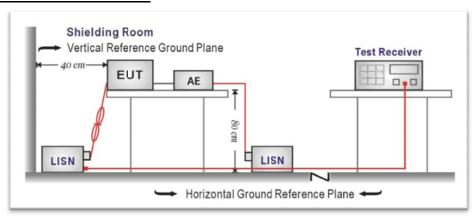
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)		
	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



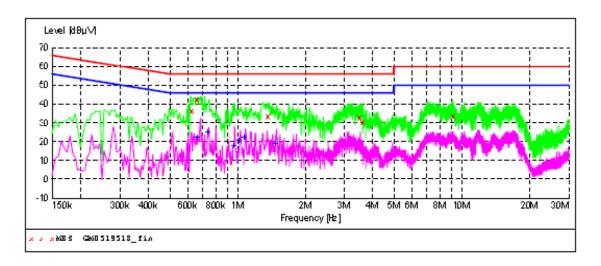
TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10: 2013 for compliance to FCC 47CFR 15.247 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (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 folded back 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 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

TEST RESULTS

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Test mode:	BT	Polarization	1
root mode.	01	1 Clarization	_



MEASUREMENT RESULT: "GM0519518_fin"

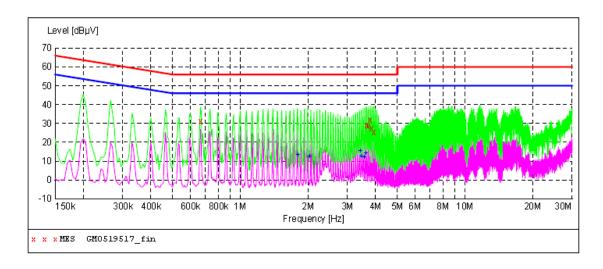
	015 2:12 quency MHz	PM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.6	525000	36.60	10.2	56	19.4	QP	Ll	GND
0.6	560000	42.30	10.2	56	13.7	QP	Ll	GMD
1.3	365000	33.80	10.2	56	22.2	QP	Ll	GND
3.5	520000	33.30	10.3	56	22.7	QP	Ll	GND
3.6	540000	30.50	10.3	56	25.5	QP	Ll	GMD
9.3	L85000	33.80	10.7	60	26.2	QP	Ll	GMD

MEASUREMENT RESULT: "GM0519518_fin2"

5	5/19/2015 2:1 Frequency	Level	Transd	Limit	_	Detector	Line	PE
	MHz	dΒμV	dB	dΒμV	dB			
	0.660000	22.70	10.2	46	23.3	AV	Ll	GMD
	0.735000	25.10	10.2	46	20.9	AV	Ll	GMD
	0.965000	18.00	10.2	46	28.0	AV	Ll	GMD
	1.020000	21.10	10.2	46	24.9	AV	Ll	GND
	1.075000	22.60	10.2	46	23.4	AV	Ll	GND
	1 475000	19 10	10 2	46	26 9	2.17	T. 1	CMD

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Test mode: BT Polarization N



MEASUREMENT RESULT: "GM0519517_fin"

15 2:09	PM						
Auency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
65000	31.20	10.2	56	24.8	QP	N	GND
555000	29.00	10.3	56	27.0	QP	N	GND
725000	28.60	10.3	56	27.4	QP	N	GND
785000	32.20	10.3	56	23.8	QP	N	GND
350000	27.40	10.3	56	28.6	QP	N	GND
920000	25.30	10.3	56	30.7	QP	N	GND
	MHz 665000 655000 725000 785000	MHz dBμV	quency Level dBμV Transd dB 665000 31.20 10.2 555000 29.00 10.3 255000 28.60 10.3 285000 32.20 10.3 250000 27.40 10.3	quency Level Transd Limit MHz dBμV dB dBμV 565000 31.20 10.2 56 555000 29.00 10.3 56 25000 28.60 10.3 56 285000 32.20 10.3 56 250000 27.40 10.3 56	quency Level dBμV Transd dBμV Limit dBμV Margin dB 565000 31.20 10.2 56 24.8 555000 29.00 10.3 56 27.0 255000 28.60 10.3 56 27.4 285000 32.20 10.3 56 23.8 250000 27.40 10.3 56 28.6	quency Level Transd Limit Margin Detector MHz dBμV dB dBμV dB 565000 31.20 10.2 56 24.8 QP 555000 29.00 10.3 56 27.0 QP 25000 28.60 10.3 56 27.4 QP 285000 32.20 10.3 56 23.8 QP 350000 27.40 10.3 56 28.6 QP	quency Level Transd Limit Margin Detector Line MHz dBμV dB dBμV dB Detector Line 665000 31.20 10.2 56 24.8 QP N 655000 29.00 10.3 56 27.0 QP N 725000 28.60 10.3 56 27.4 QP N 785000 32.20 10.3 56 23.8 QP N 850000 27.40 10.3 56 28.6 QP N

MEASUREMENT RESULT: "GM0519517_fin2"

5,	/19/2015 2:0 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	1.805000	13.20	10.2	46	32.8	AV	N	GND
	2.030000	12.70	10.2	46	33.3	AV	N	GND
	3.430000	15.30	10.3	46	30.7	AV	N	GND
	3.445000	12.50	10.3	46	33.5	AV	N	GND
	3.560000	12.10	10.3	46	33.9	AV	N	GND
	3.605000	14.10	10.3	46	31.9	AV	N	GND

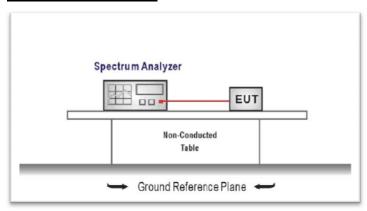
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4.3. Conducted Peak Output Power

LIMIT

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

TEST CONFIGURATION



TEST PROCEDURE

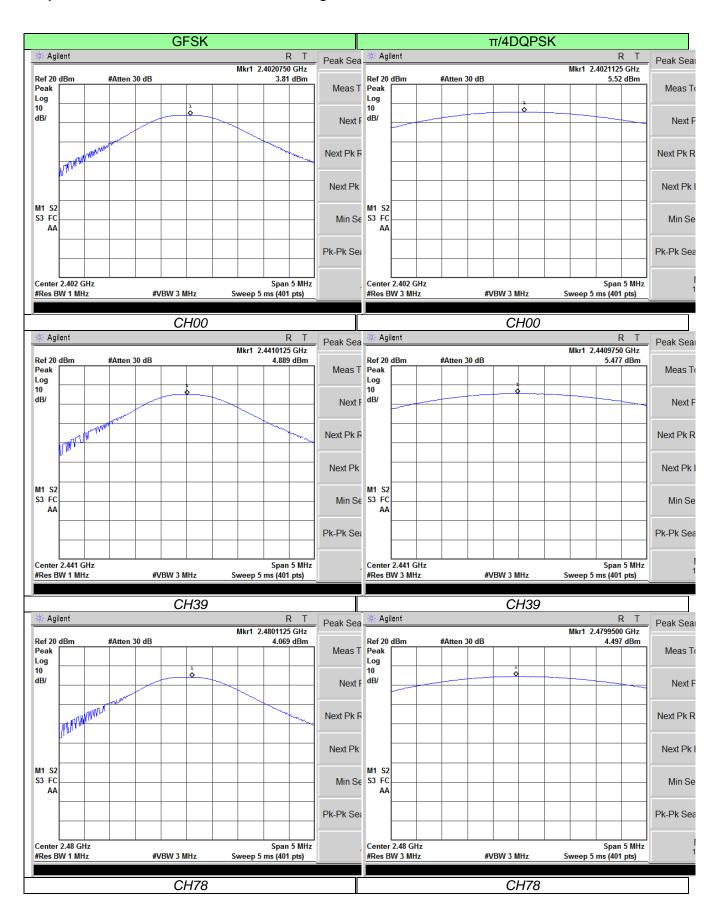
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.

TEST RESULTS

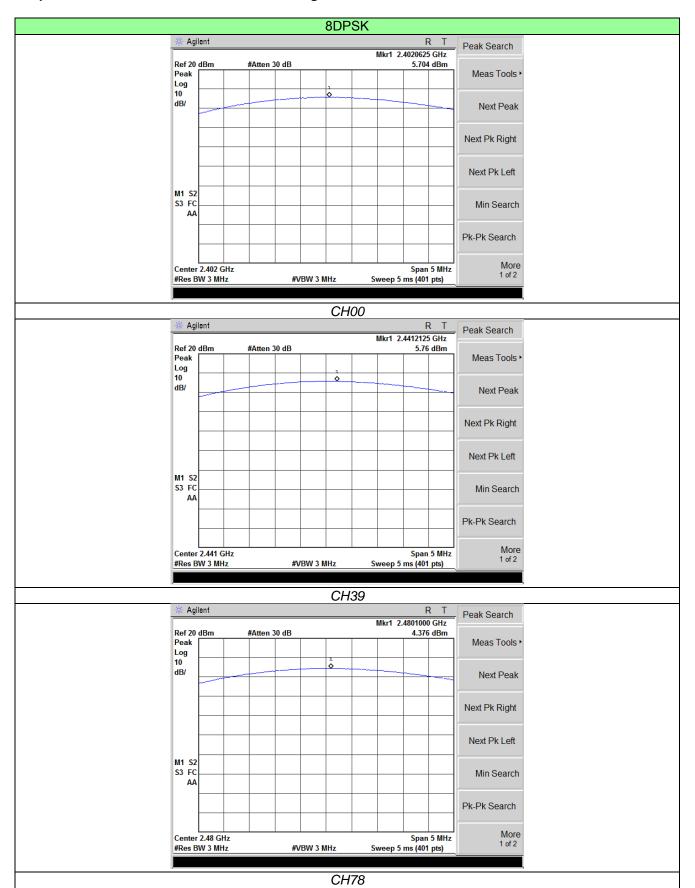
Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result
	00	3.81		
GFSK	39	4.88	30.00	Pass
	78	4.06		
	00	5.52		Pass
π/4DQPSK	39	5.47	21.00	
	78	5.49		
	00	5.70		
8DPSK	39	5.76	21.00	Pass
	78	4.37		

Test plot as follows:

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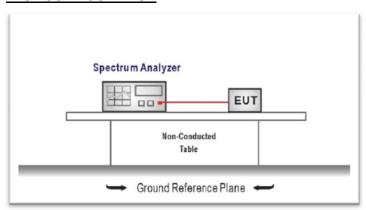
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4.4. 20dB Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



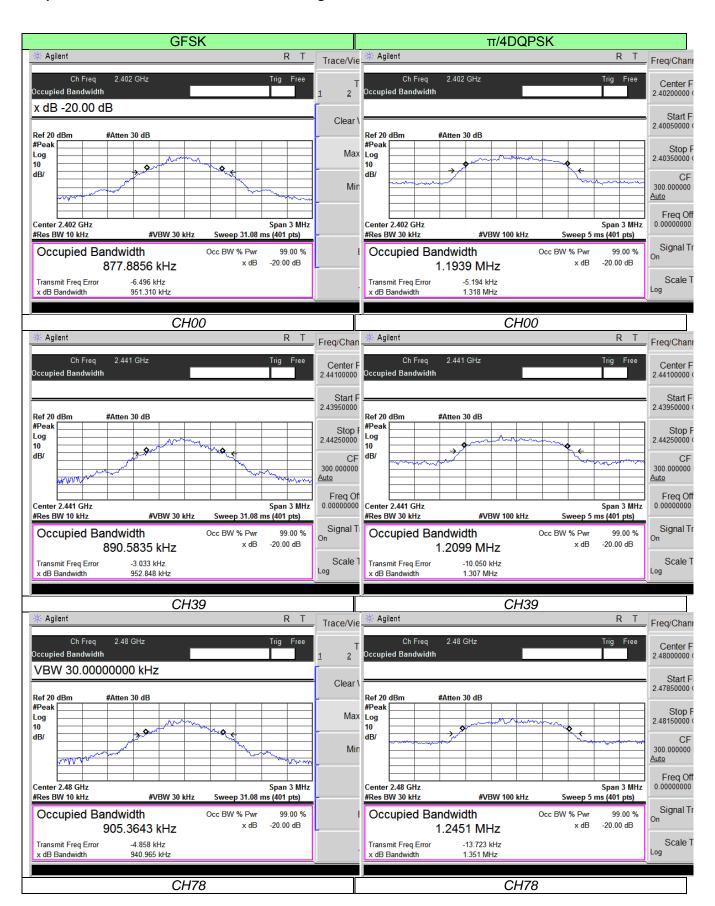
TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW≥1% of the 20 dB bandwidth and VBW≥ RBW.
- 3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

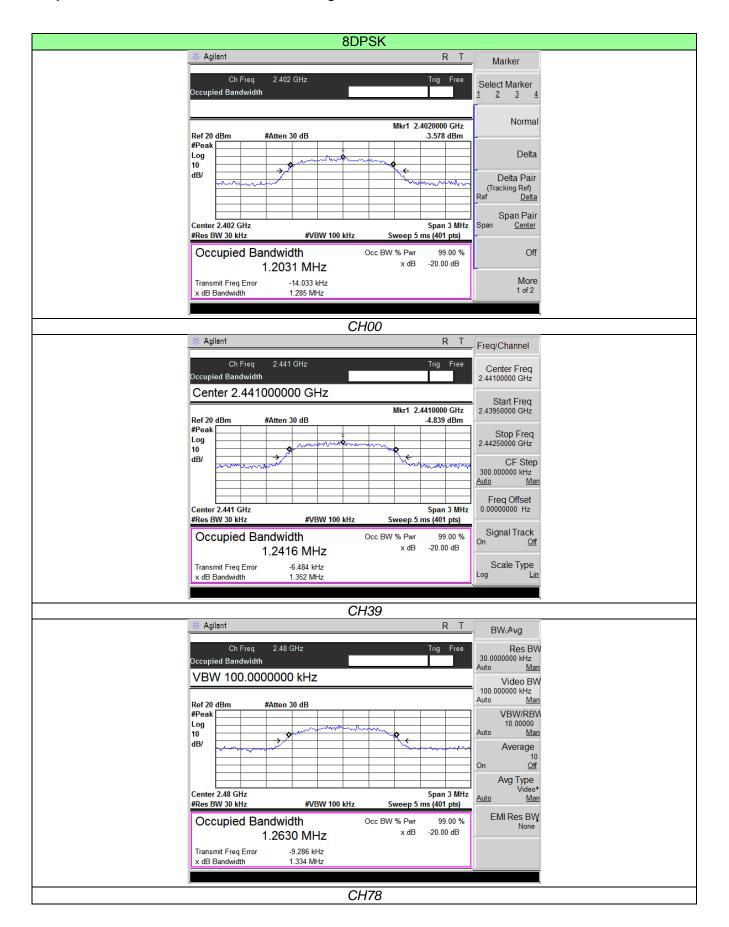
TEST RESULTS

Modulation type	Channel	20dB Bandwidth (MHz)	Limit (MHz)	Result
	00	0.951		
GFSK	39	0.952	1	Pass
	78	0.940		
	00	1.318		Pass
π/4DQPSK	39	1.307	1	
	78	1.351		
	00	1.285		
8DPSK	39	1.352	1	Pass
	78	1.334		

Test plot as follows:



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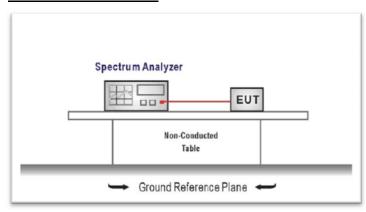
4.5. Carrier Frequencies Separation

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 25KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

TEST CONFIGURATION



TEST PROCEDURE

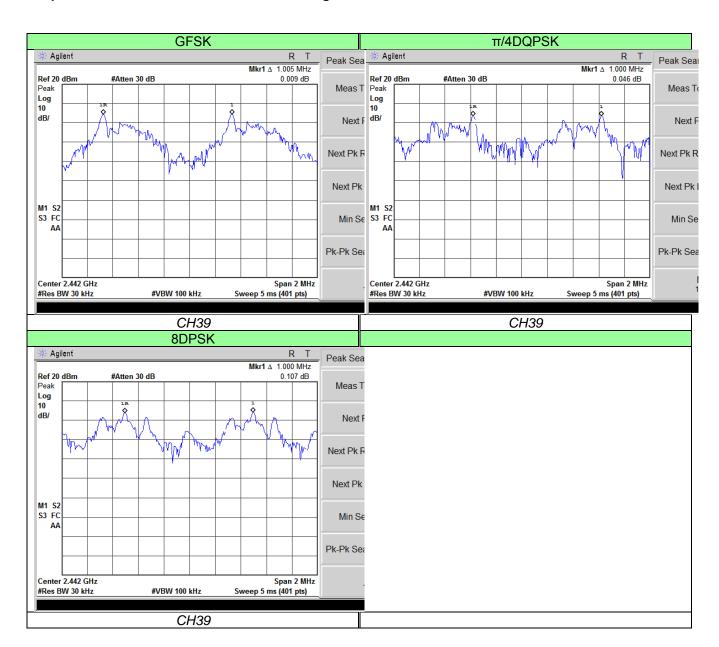
- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=30 KHz and VBW=100KHz.

TEST RESULTS

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
GFSK	39	1.005	0.952	Pass
π/4DQPSK	39	1.000	0.879	Pass
8DPSK	39	1.000	0.889	Pass

Test plot as follows:

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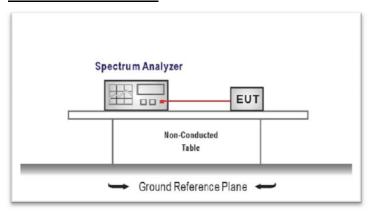
4.6. Hopping Channel Number

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

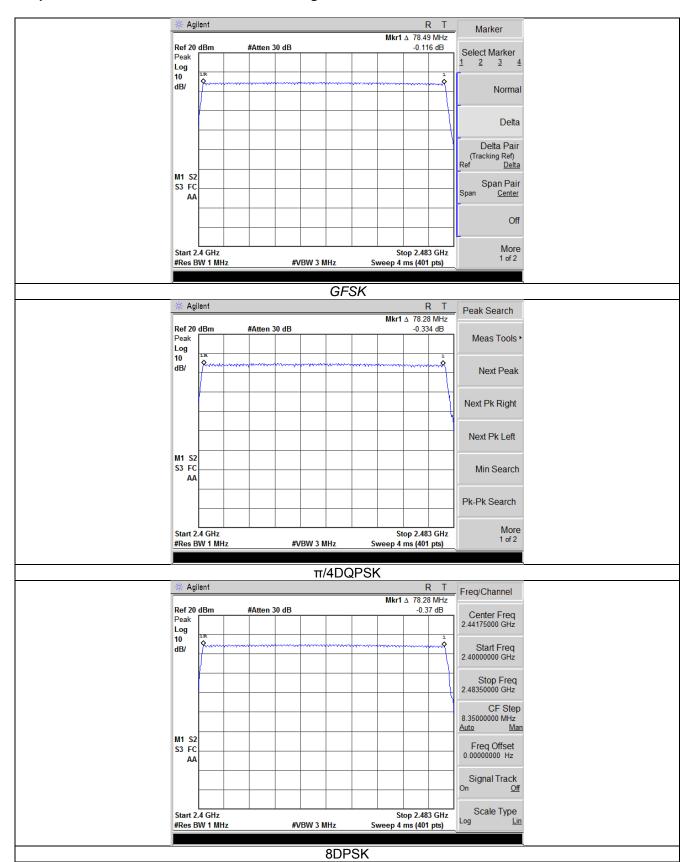
- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1MHz and VBW=3MHz.

TEST RESULTS

Modulation type	Channel number	Limit (MHz)	Result
GFSK	79		
π/4DQPSK	79	15	Pass
8DPSK	79		

Test plot as follows:

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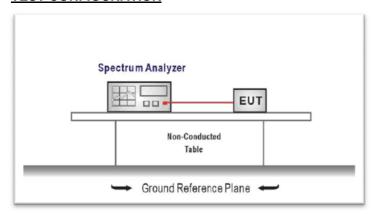
4.7. Dwell Time

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 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.
- Set center frequency of spectrum analyzer=operating frequency with RBW=1MHz and VBW=1MHz,Span=0Hz.

TEST RESULTS

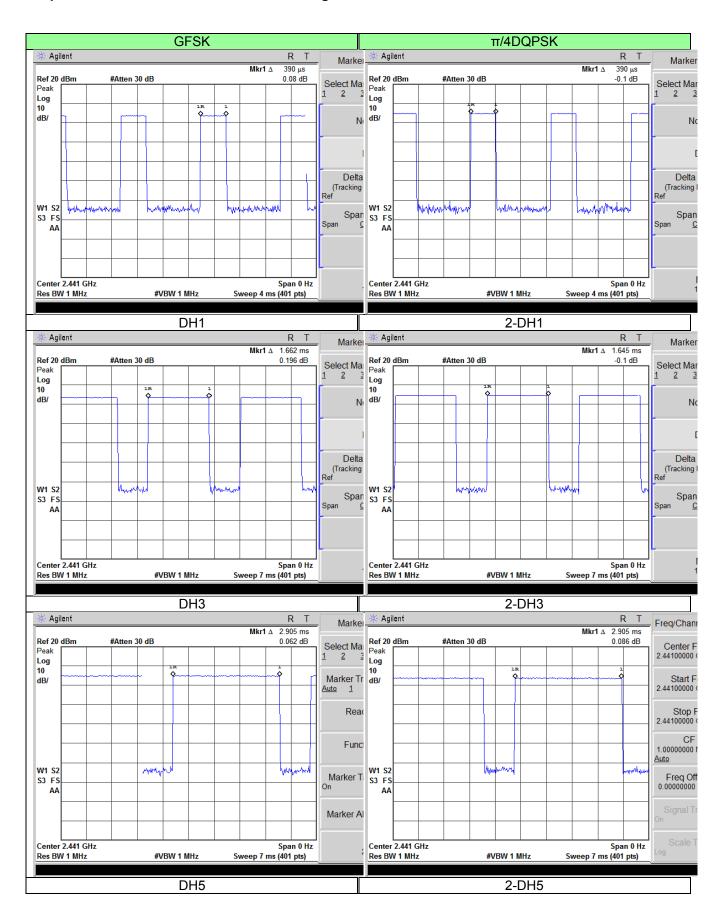
Modulation type	Channel	Dwell time (Second)	Limit (Second)	Result	
	DH1 0.125				
GFSK	DH3	0.266	0.40	Pass	
	DH5	0.310			
	2-DH1	0.125			
π/4DQPSK	2-DH3	0.263	0.40	Pass	
	2-DH5	0.310			
	3-DH1				
8DPSK	3-DH3	0.260	0.40	Pass	
	3-DH5	0.310			

Note:

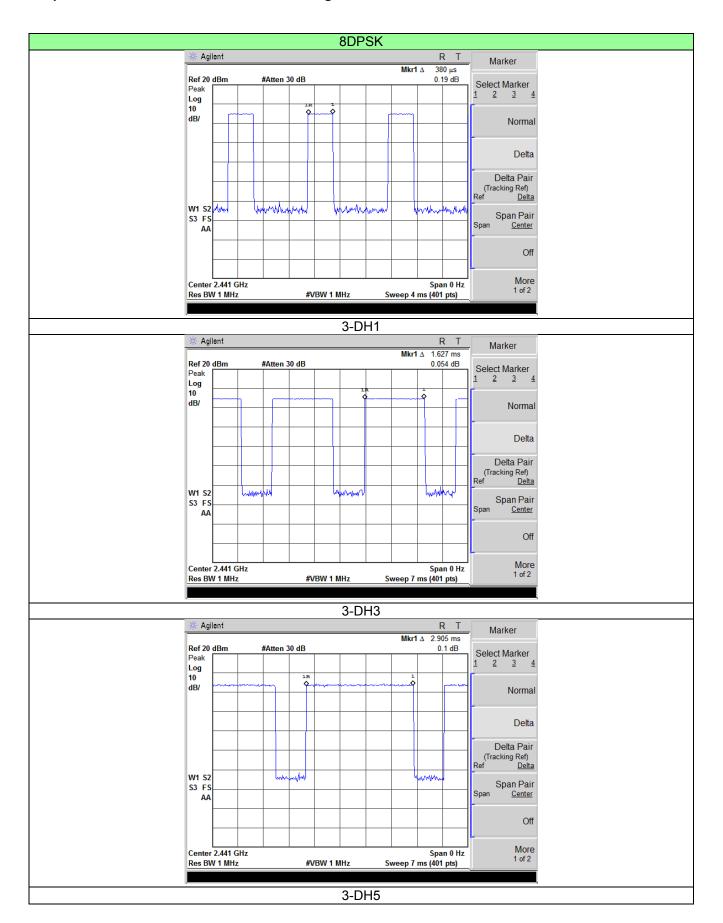
- We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.
- Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second for DH1, 2-DH1, 3-DH1
 Dwell time=Pulse time (ms) × (1600 ÷ 4 ÷ 79) ×31.6 Second for DH3, 2-DH3, 3-DH3
 Dwell time=Pulse time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second for DH5, 2-DH5, 3-DH5

Test plot as follows:

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4.8. Pseudorandom Frequency Hopping Sequence

LIMIT

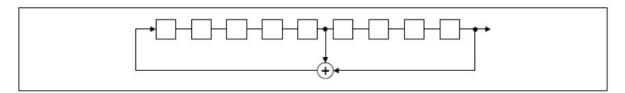
FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

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

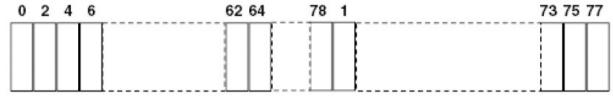
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the frist stage. The sequence begins with the frist one of 9 consecutive ones, for example: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



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.

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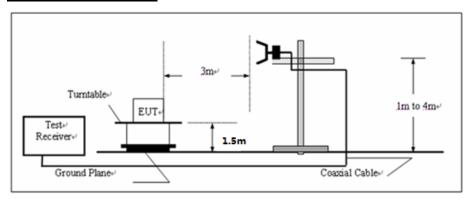
4.9. Restricted band (radiated)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m @3m)	Value
Above 1GHz	54.00	Average
Above 1GHz	74.00	Peak

TEST CONFIGURATION



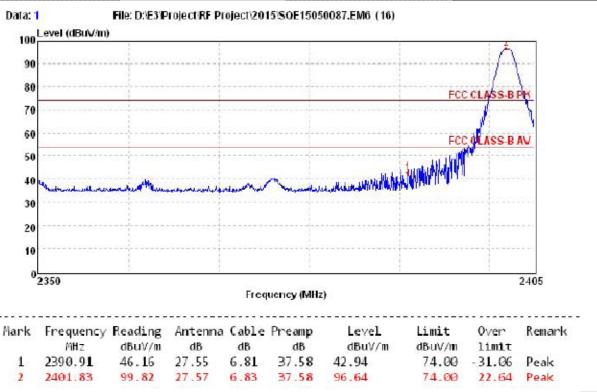
TEST PROCEDURE

- 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 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned 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 the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5. The receiver set as follow:
 - RBW=1MHz, VBW=3MHz for Peak value
 - RBW=1MHz, VBW=10Hz for Average value.
- 6. The frequency range from 2310MHz to 2483.5MHz harmonic is checked.

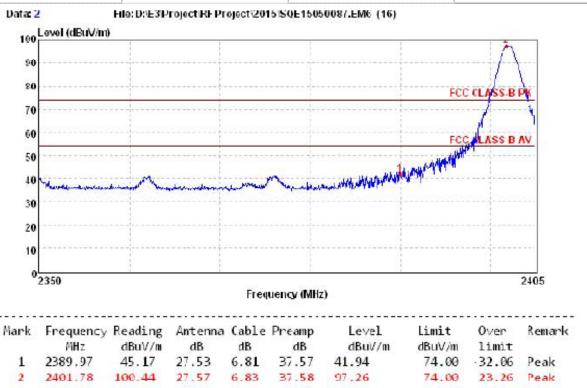
TEST RESULTS

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Worst mode:	GFSK Modulation	Test Channel:	00
Deteccter:	Peak	Polarization:	Horizontal

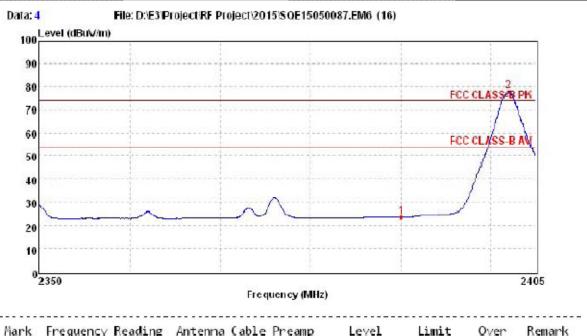


Worst mode:	GFSK Modulation	Test Channel:	00
Deteccter:	Peak	Polarization:	Vertical



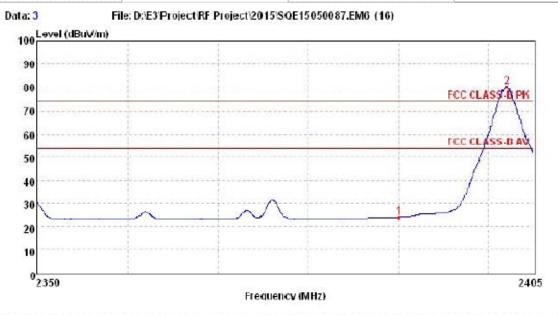
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Worst mode:	GFSK Modulation	Test Channel:	00
Deteccter:	Average	Polarization:	Horizontal



	AHZ	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2390.02	26.95	27.53	6.81	37.57	23.72	54.00	-30.28	Avenage
2	2402.00	81.37	27.57	6.83	37.58	78.19	54.00	24.19	Average

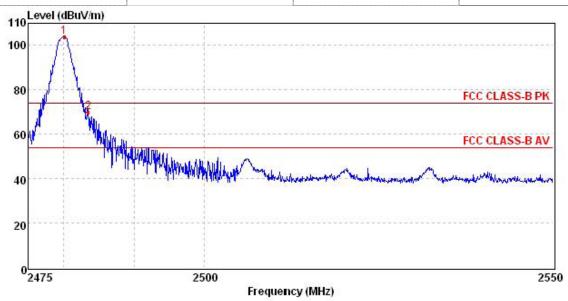
Worst mode:	GFSK Modulation	Test Channel:	00
Deteccter:	Average	Polarization:	Vertical



Mark	Frequency MHz	Reading dBuV/m			Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	
1	2390.02	27.57	27.53	6.81	37.57	24.34	54.00	-29.66	Average
2	2402.05	83.62	27.57	6.83	37.58	80.44	54.00	26.44	Average

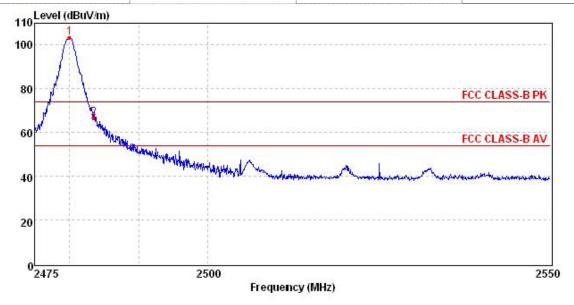
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Worst mode:	GFSK Modulation	Test Channel:	78
Deteccter:	Peak	Polarization:	Horizontal



Mark Frequency Reading Antenna Cable Preamp Le∨el Limit Remark 0∨er MHz dBuV/m dB dB dB dBuV/m dBuV/m limit 6.94 37.64 103.86 1 2480.10 106.73 27.83 74.00 29.86 Peak 2 2483.51 72.89 27.85 6.96 37.65 70.05 74.00 -3.95 Peak

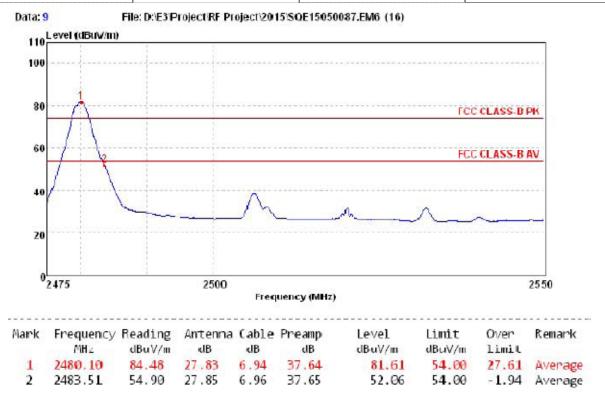
Worst mode:	GFSK Modulation	Test Channel:	78
Deteccter:	Peak	Polarization:	Vertical



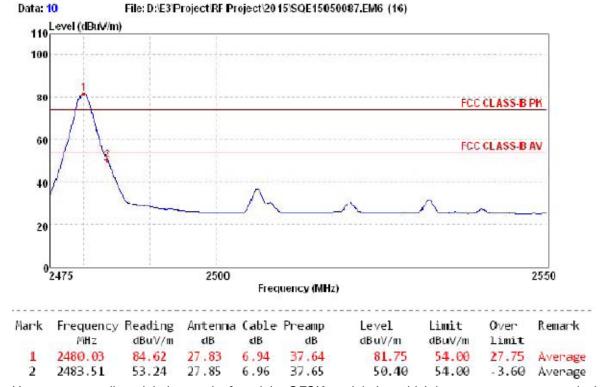
Mark	Frequency MHz	Reading dBuV/m				Le∨el dBuV/m	Limit dBuV/m		Remark
1	2480.03		Secretary Secretary	A STATE OF THE PARTY OF THE PAR	1000	The second secon	A CONTRACT OF THE PARTY OF THE	29.29	
2	2483.51	69.48	27.85	6.96	37.65	66.64	74.00	-7.36	Peak

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Worst mode:	GFSK Modulation	Test Channel:	78
Deteccter:	Average	Polarization:	Horizontal



Worst mode:	GFSK Modulation	Test Channel:	78
Deteccter:	Average	Polarization:	Vertical



Note: 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. and the Peak Level result is lower than the AV limit, so the AV result is not require.

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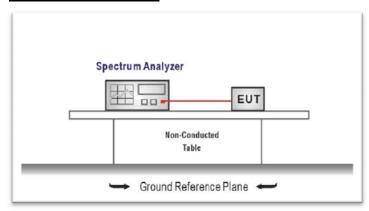
4.10. Bandedge and Spurious Emission (conducted)

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



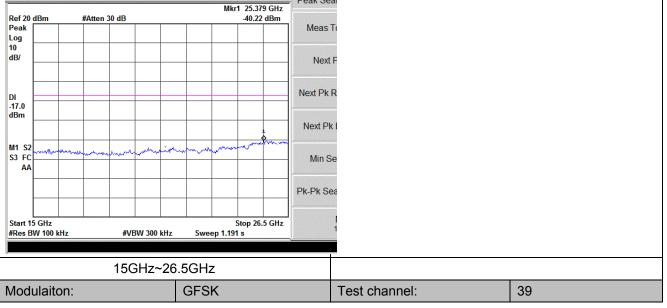
TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. Conducted spurious emission the bandwidth of the fundamental frequency was measured by spectrum analyzer withRBW=100 KHz and VBW=300KHz.
- 3. Below -20dB of the highest emission level in operating band.

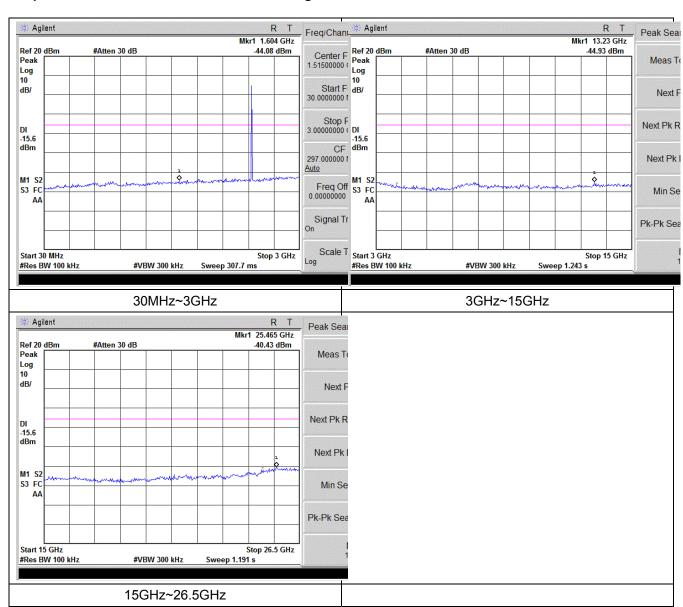
TEST RESULTS

Test plot as follows:

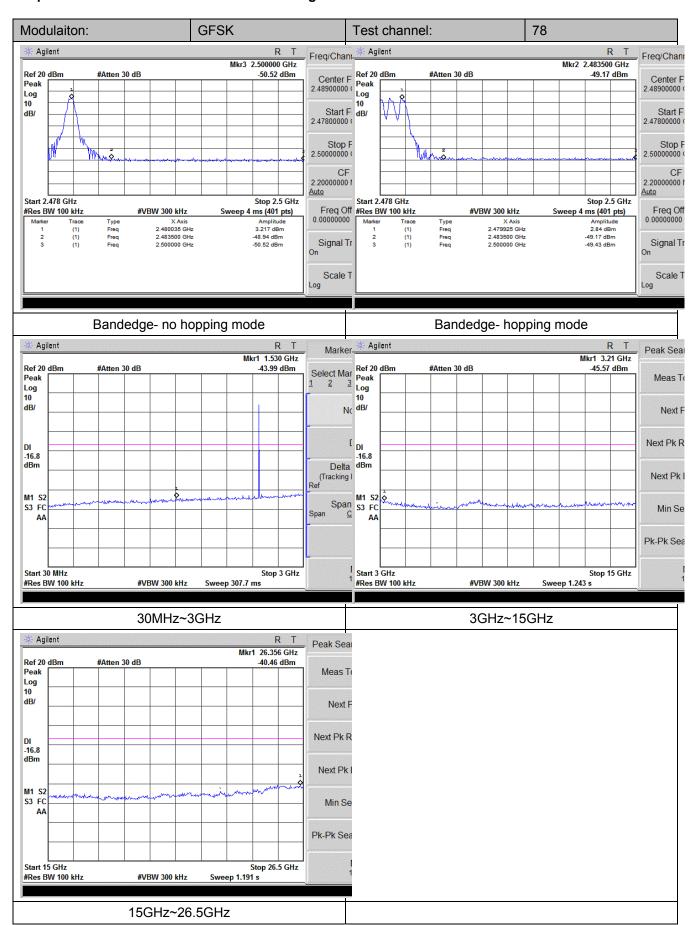
TRE1505008702 Issued: 2015-05-25 Report No: Page: 33 of 48 Modulaiton: **GFSK** Test channel: 00 🔆 Agilent R T 🔆 Agilent R T Peak Seal Freq/Chan Mkr3 2.40191 GHz Mkr3 2.40381 GHz Ref 20 dBm #Atten 30 dB 3.897 dBm Ref 20 dBm #Atten 30 dB 3.964 dBm Center F Meas Tr Peak Peak 2.35750000 (Log Log 10 10 dB/ Next F dB/ 2 31000000 Stop F Next Pk R 2.40500000 CF Next Pk I 9.500000001 Auto Start 2.31 GHz Stop 2.405 GHz Start 2.31 GHz Stop 2.405 GHz Min Se #Res BW 100 kHz Freq Off #VBW 300 kHz Sweep 9.842 ms (401 pts) #VBW 300 kHz Sweep 9.842 ms (401 pts) #Res BW 100 kHz 0.00000000 Type Freq Freq Freq Type Freq Freq Freq X Axis 2.31000 GHz Amplitude -50.15 dBm X Axis 2.31000 GHz Amplitude -49.14 dBm (1) (1) (1) (1) (1) (1) 2.40000 GHz -40.03 dBm 2.40000 GHz -49.64 dBm Signal Tr 2.40191 GHz 3.897 dBm Pk-Pk Sea 2.40381 GHz 3.964 dBm On Scale T Log Bandedge-hopping mode Bandedge- no hopping mode Marker * Agilent 🔆 Agilent R T Peak Sear Mkr1 1.292 GHz Mkr1 7.35 GHz Ref 20 dBm Ref 20 dBm #Atten 30 dB Select Mar Peak #Atten 30 dB -44.66 dBm -44.3 dBm Peak Meas To 2 3 Log Log 10 10 dB/ Nc dB/ Next F [DI Next Pk R DI -17.0 dBm Delta dBm (Tracking I Next Pk I Ŷ, ·\$ Span S3 FC S3 FC Min Se Span AA AA Pk-Pk Sea Stop 3 GHz Stop 15 GHz Start 30 MHz Start 3 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 307.7 ms #Res BW 100 kHz #VBW 300 kHz Sweep 1.243 s 30 MHz~3GHz 3GHz~15GHz # Agilent R T Peak Sear Mkr1 25.379 GHz Ref 20 dBm #Atten 30 dB -40.22 dBm Peak Meas T Log dB/ Next F Next Pk R DI -17.0 dBm Next Pk M1 S2



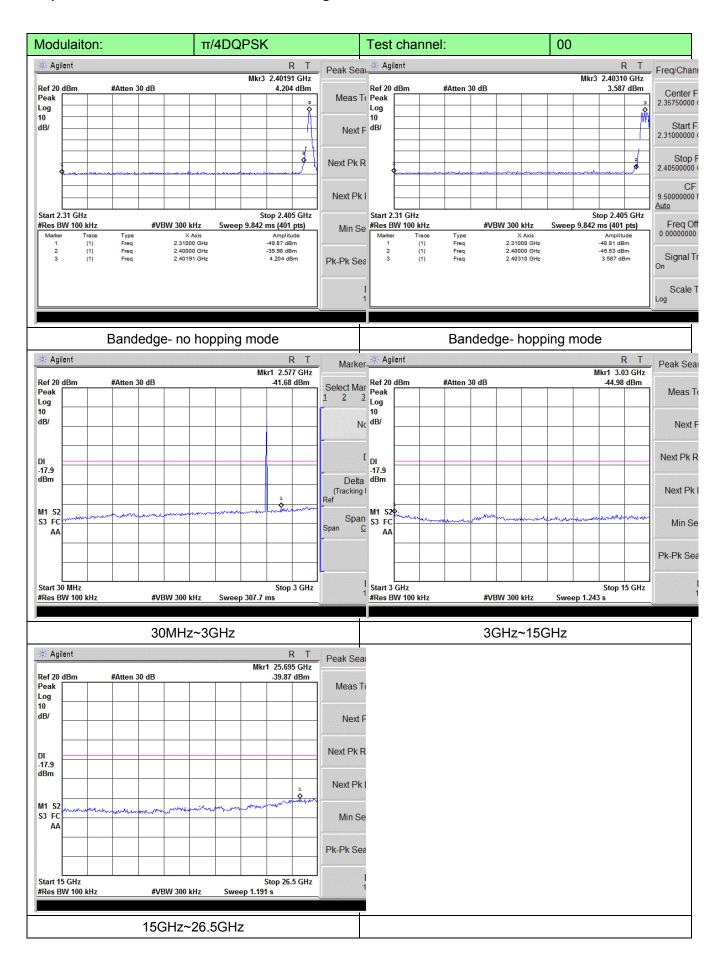
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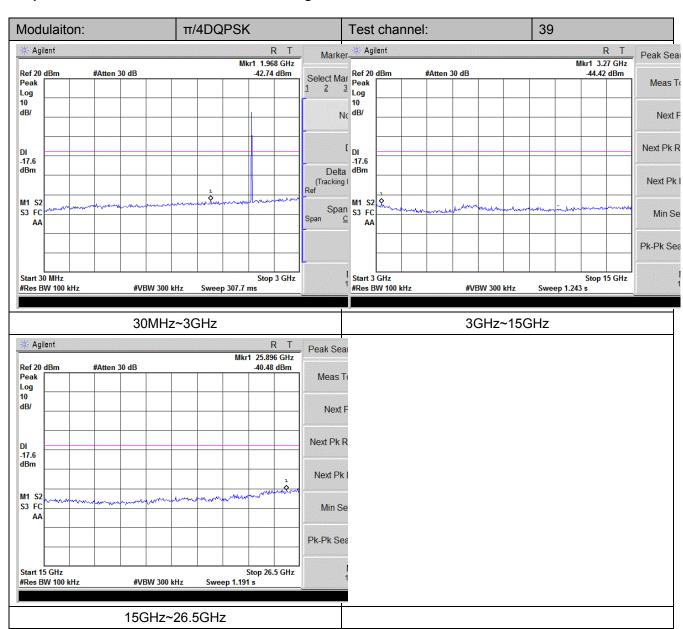
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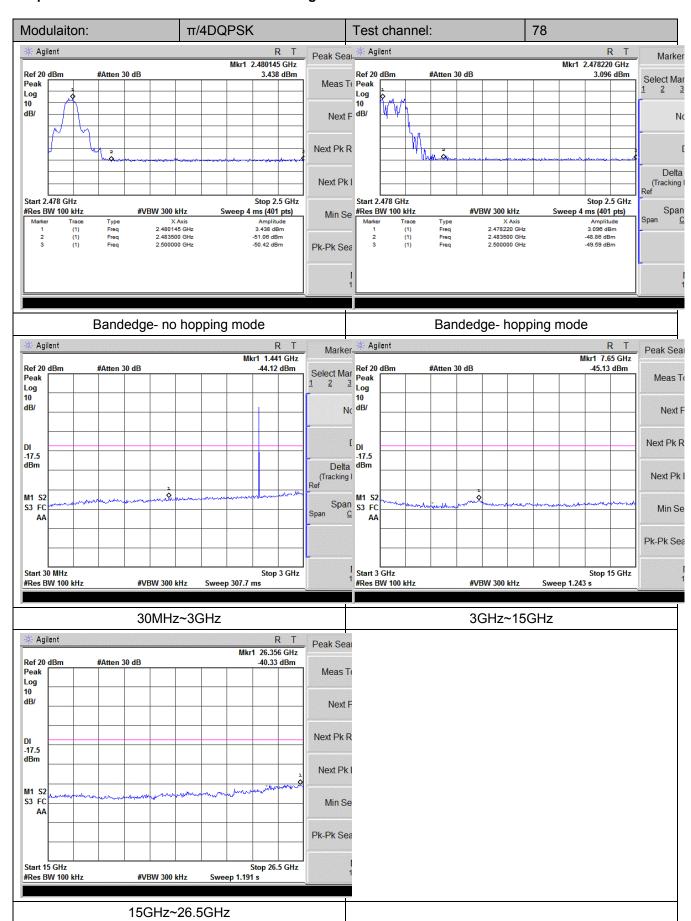
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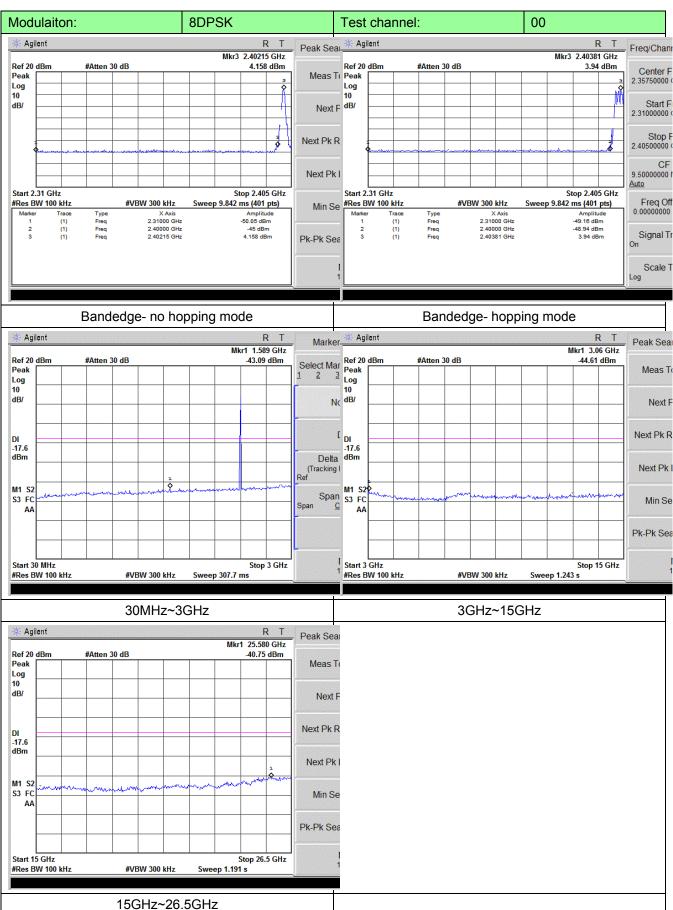
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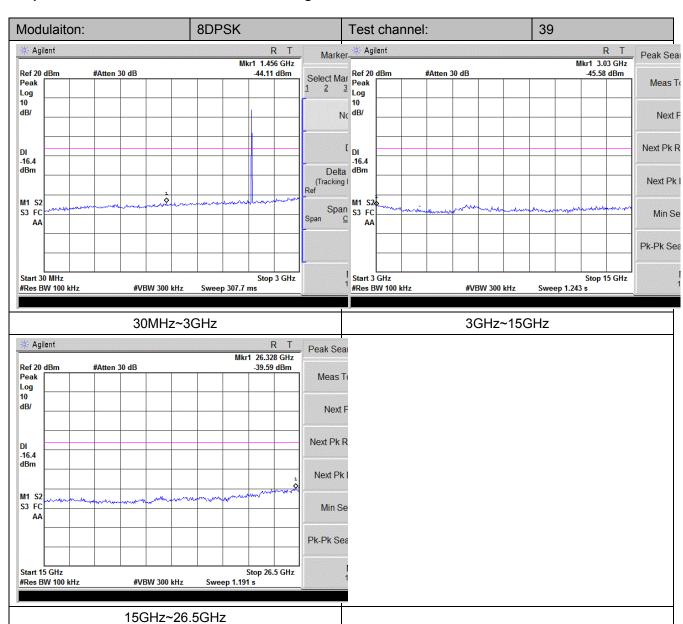
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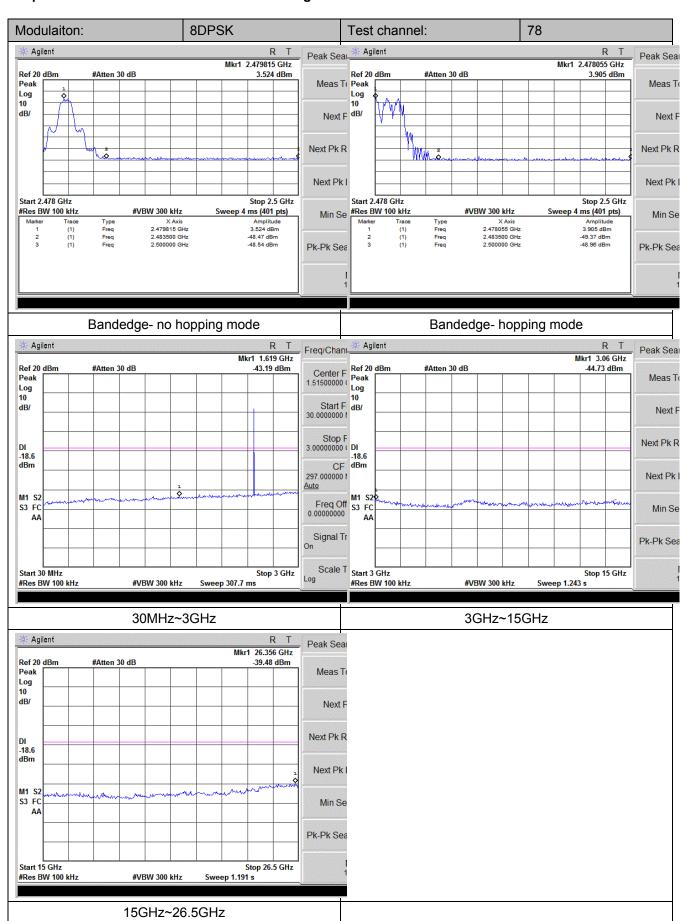
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4.11. Spurious Emission (radiated)

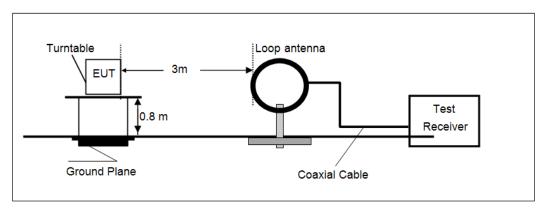
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

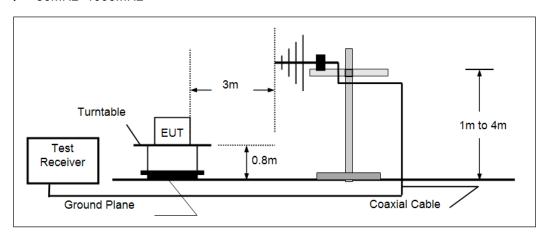
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 10Uz	54.00	Average
Above 1GHz	74.00	Peak

TEST CONFIGURATION

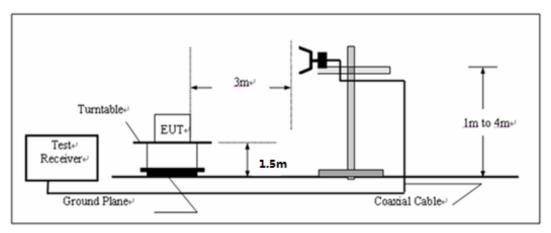
♦ Below 30MHz



◆ 30MHz~1000MHz



♦ Above 1GHz



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TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 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. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value RBW=1MHz, VBW=10Hz for Average value.

TEST RESULTS

Noted:

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.

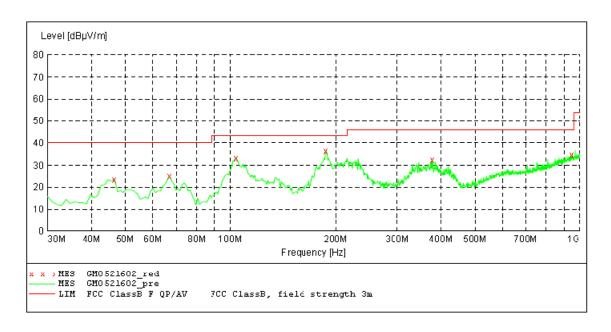
Measurement data:

■ 9kHz ~ 30MHz

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

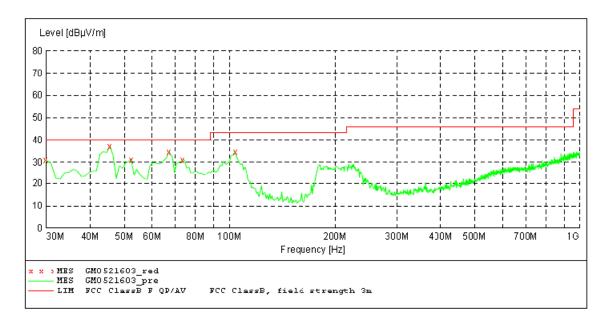
■ 30MHz ~ 1GHz

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MEASUREMENT RESULT: "GM0521602 red"

5/21/2015	8:54A								
Frequen M	-	Level BµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
46.4900	00	23.40	-14.6	40.0	16.6	QP	100.0	142.00	HORIZONTAL
66.8600	00	25.10	-16.3	40.0	14.9	QP	300.0	331.00	HORIZONTAL
103.7200	00	33.20	-14.6	43.5	10.3	QP	300.0	162.00	HORIZONTAL
188.1100	00	36.20	-14.9	43.5	7.3	QP	100.0	109.00	HORIZONTAL
378.2300	00	32.40	-11.4	46.0	13.6	QP	100.0	29.00	HORIZONTAL
943.7400	00	34.60	3.6	46.0	11.4	QP	100.0	119.00	HORIZONTAL



MEASUREMENT RESULT: "GM0521603_red"

5,	/21/2015 8:5								
	Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
	30.000000	30.80	-16.8	40.0	9.2	QP	100.0	271.00	VERTICAL
	45.520000	37.20	-14.7	40.0	2.8	QP	100.0	3.00	VERTICAL
	52.310000	31.10	-14.4	40.0	8.9	QP	100.0	27.00	VERTICAL
	66.860000	34.50	-16.3	40.0	5.5	QP	100.0	296.00	VERTICAL
	73.650000	31.10	-17.6	40.0	8.9	QP	100.0	296.00	VERTICAL
	103.720000	34.40	-14.6	43.5	9.1	QP	100.0	114.00	VERTICAL

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■ Above 1GHz

				CH00	o 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
4804.00	39.14	31.28	5.66	35.29	40.79	74.00	-33.21	Vertical	
7206.00	35.65	36.22	6.87	35.15	43.59	74.00	-30.41	Vertical	
9608.00	36.15	37.85	8.80	35.55	47.25	74.00	-26.75	Vertical	
12010.00	*							Vertical	Dools
4804.00	42.60	31.28	5.66	35.29	44.25	74.00	-29.75	Horizontal	Peak
7206.00	36.32	36.22	6.87	35.15	44.26	74.00	-29.74	Horizontal	
9608.00	36.82	37.85	8.80	35.55	47.92	74.00	-26.08	Horizontal	
12010.00	*							Horizontal	
4804.00	34.20	31.28	5.66	35.29	35.85	54.00	-18.15	Vertical	
7206.00	29.69	36.22	6.87	35.15	37.63	54.00	-16.37	Vertical	
9608.00	28.57	37.85	8.80	35.55	39.67	54.00	-14.33	Vertical	
12010.00	*							Vertical	Augraga
4804.00	35.93	31.28	5.66	35.29	37.58	54.00	-16.42	Horizontal	Average
7206.00	30.00	36.22	6.87	35.15	37.94	54.00	-16.06	Horizontal	
9608.00	28.74	37.85	8.80	35.55	39.84	54.00	-14.16	Horizontal	
12010.00	*							Horizontal	

	CH39 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
4882.00	40.21	30.88	5.70	35.27	41.52	74.00	-32.48	Vertical	
7323.00	36.48	35.82	6.91	35.13	44.08	74.00	-29.92	Vertical	
9764.00	38.21	37.45	8.84	35.53	48.97	74.00	-25.03	Vertical	
12205.00	*							Vertical	Dook
4882.00	43.24	30.88	5.70	35.27	44.55	74.00	-29.45	Horizontal	Peak
7323.00	37.19	35.82	6.91	35.13	44.79	74.00	-29.21	Horizontal	
9764.00	36.80	37.45	8.84	35.53	47.56	74.00	-26.44	Horizontal	
12205.00	*							Horizontal	
4882.00	34.53	30.88	5.70	35.27	35.84	54.00	-18.16	Vertical	
7323.00	29.73	35.82	6.91	35.13	37.33	54.00	-16.67	Vertical	
9764.00	29.10	37.45	8.84	35.53	39.86	54.00	-14.14	Vertical	
12205.00	*							Vertical	Average
4882.00	36.27	30.88	5.70	35.27	37.58	54.00	-16.42	Horizontal	Average
7323.00	30.34	35.82	6.91	35.13	37.94	54.00	-16.06	Horizontal	
9764.00	28.93	37.45	8.84	35.53	39.69	54.00	-14.31	Horizontal	
12205.00	*							Horizontal	

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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	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
4960.00	39.13	30.98	5.73	35.32	40.52	74.00	-33.48	Vertical	
7440.00	36.21	35.92	6.94	35.18	43.89	74.00	-30.11	Vertical	
9920.00	37.79	37.55	8.87	35.58	48.63	74.00	-25.37	Vertical	
12400.00	*							Vertical	Dools
4960.00	42.97	30.98	5.73	35.32	44.36	74.00	-29.64	Horizontal	Peak
7440.00	38.19	35.92	6.94	35.18	45.87	74.00	-28.13	Horizontal	
9920.00	36.75	37.55	8.87	35.58	47.59	74.00	-26.41	Horizontal	
12400.00	*							Horizontal	
4960.00	33.86	30.98	5.73	35.32	35.25	54.00	-18.75	Vertical	
7440.00	30.18	35.92	6.94	35.18	37.86	54.00	-16.14	Vertical	
9920.00	28.63	37.55	8.87	35.58	39.47	54.00	-14.53	Vertical	
12400.00	*							Vertical	A.,
4960.00	36.19	30.98	5.73	35.32	37.58	54.00	-16.42	Horizontal	Average
7440.00	30.01	35.92	6.94	35.18	37.69	54.00	-16.31	Horizontal	
9920.00	28.92	37.55	8.87	35.58	39.76	54.00	-14.24	Horizontal	
12400.00	*							Horizontal	

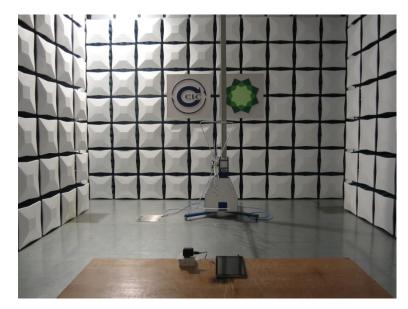
Remark.

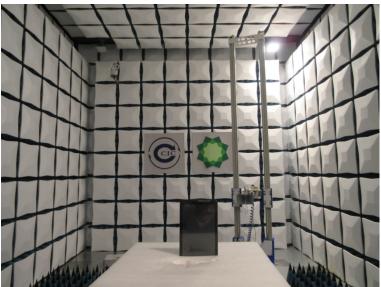
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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5. Test Setup Photos of the EUT

Radiated Emission





Conducted Emission (AC Mains)



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6. External and Internal Photos of the EUT

Reference to	Test Report	TRE1505008701
	.End of Repo	ort