



FCC PART 15.247 TEST REPORT

For

Weccan Industrial Limited

30/F, Building C1, Xinghe Century, Caitian South Road, Futian District, Shenzhen, Guangdong Province, P.R.C

FCC ID: Z3CWECCANBTTOYH1

Report Type: Product Type:

Original Report iOS and Android Bluetooth

Helicopter

Test Engineer: Gardon Zhang

Report Number: RSZ120808801-00

Report Date: 2012-08-30

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* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Weccan Industrial Limited*'s product, model number: *i767 (FCC ID: Z3CWECCANBTTOYH1)* or the "EUT" in this report was an *iOS and Android Bluetooth Helicopter*, which was measured approximately: 20.0 cm (L) x 13.0 cm (W) x 10.0 cm (H), rated input voltage: DC 3.7V from battery or DC 5V from PC for charging.

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Note: The series product, model i717, i727, i737, i747, i757, i767, i777, i787, i797, they are electrically identical and the differences between them are the model No. and appearance color. Model i767 was selected for fully testing, which was explained in the attached product similarity declaration letter.

* All measurement and test data in this report was gathered from production sample serial number: 1208001 (Assigned by BACL, Shenzhen). The EUT was received on 2012-08-08.

Objective

This test report is prepared on behalf of *Weccan Industrial Limited* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

No related Submittal(s)

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

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Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a testing mode.

EUT Exercise Software

RF Control Kit v1.0

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	PC	VOSTRO 220S	127BP2X
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Mouse	MOC5UO	G1900NKD
DELL	LCD Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH

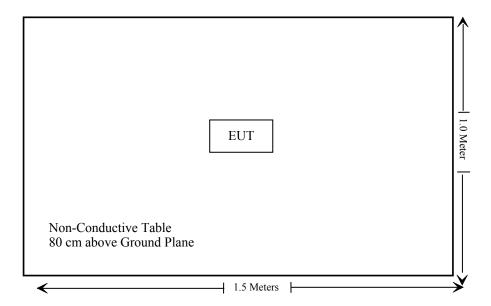
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External I/O Cable

Cable Description	Length (m)	From/Port	То
Shielded Detachable Mouse Cable	1.5	Host PC	Mouse
Shielded Detachable K/B Cable	1.5	Host PC	Keyboard
Shielded Detachable VGA Cable	1.5	Host PC	Monitor
Unshielded Detachable USB Cable	1.0	EUT	Host PC

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b)(1), §2.1091	Maximum Permissible exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliance
§15.247(a)(1)	20 dB Emission Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band edges	Compliance

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FCC §15.247 (i) & §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247(i)and subpart §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (V/m)	Averaging Time (minutes)					
0.3-1.34	614	1.63	*(100)	30			
1.34–30	824/f	2.19/f	*(180/f²)	30			
30–300	27.5	0.073	0.2	30			
300–1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

 $S = PG/4\pi R^2 = power density (in appropriate units, e.g. mW/cm²);$

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency	uency Antenna Gai		Conducted Power Evaluation		Power Density	MPE Limit	
Mode	(MHz)	(dBi)	(numeric)	(dBm)	(mW)	Distance (cm)	(mW/cm ²)	(mW/cm ²)
BDR (GFSK)	2441	0	1	1.13	1.297	20	0.000258	1
EDR (π/4-DQPSK)	2402	0	1	1.22	1.324	20	0.000264	1
EDR (8DPSK)	2402	0	1	1.32	1.355	20	0.000270	1

Result: Compliance

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FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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Antenna Connector Construction

The EUT used one fixed PCB antenna, which in accordance to section 15.203, the maximum gain is 0 dBi; please refer to the internal photos.

Result: Compliance.

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FCC §15.207 (a) - CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

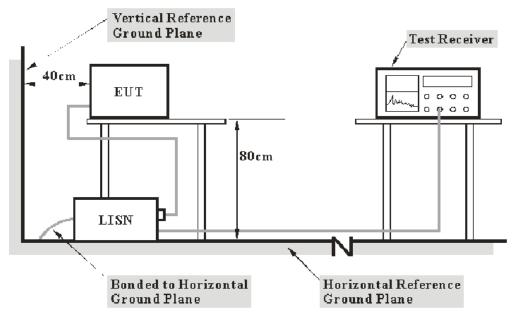
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is 2.4 dB (k=2, 95% level of confidence).

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EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

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EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

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Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2011-11-24	2012-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-11-17	2012-11-16
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2012-07-08	2013-07-07
BACL	CE Test software	BACL-CE	V1.0	-	-

^{*} **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the host PC was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

9.20 dB at 10.410 MHz in the Line conductor mode

Test Data

Environmental Conditions

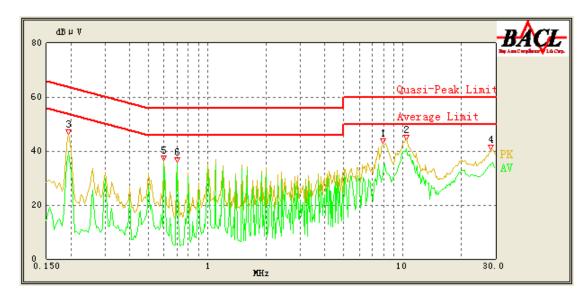
Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Gardon Zhang on 2012-08-28.

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Test Mode: Charging & Transmitting

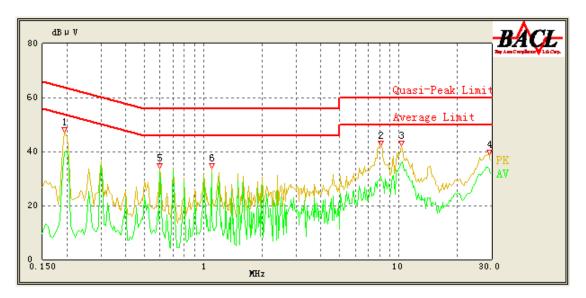
AC 120V / 60Hz - Line



Conducted Emissions				FCC Part 15.20)7
Frequency (MHz)	Corrected Result (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/QP/Ave.)
10.410	40.80	10.56	50.00	9.20	Ave.
0.600	35.30	10.24	46.00	10.70	Ave.
0.700	35.30	10.22	46.00	10.70	Ave.
28.440	34.95	11.68	50.00	15.05	Ave.
0.195	39.45	10.27	54.71	15.26	Ave.
10.415	42.40	10.56	60.00	17.60	QP
7.905	31.40	10.41	50.00	18.60	Ave.
0.195	44.34	10.27	64.71	20.37	QP
0.600	35.61	10.24	56.00	20.39	QP
0.700	35.40	10.22	56.00	20.60	QP
28.435	35.31	11.68	60.00	24.69	QP
7.955	32.40	10.41	60.00	27.60	QP

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Neutral:



Conducted Emissions				FCC Part 15.20	7
Frequency (MHz)	Corrected Result (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/QP/Ave.)
0.600	32.50	10.23	46.00	13.50	Ave.
1.100	31.75	10.17	46.00	14.25	Ave.
10.315	35.65	10.54	50.00	14.35	Ave.
0.195	39.85	10.24	54.71	14.86	Ave.
29.145	33.62	11.16	50.00	16.38	Ave.
8.070	30.75	10.41	50.00	19.25	Ave.
0.195	44.45	10.24	64.71	20.26	QP
10.315	38.10	10.54	60.00	21.90	QP
0.600	32.50	10.23	56.00	23.50	QP
1.100	31.95	10.17	56.00	24.05	QP
8.135	35.75	10.42	60.00	24.25	QP
29.145	35.15	11.16	60.00	24.85	QP

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FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

Measurement Uncertainty

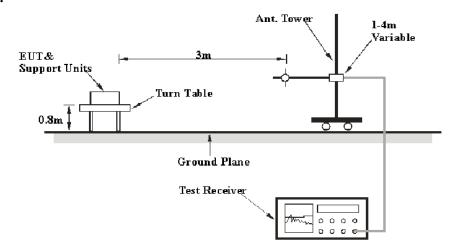
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

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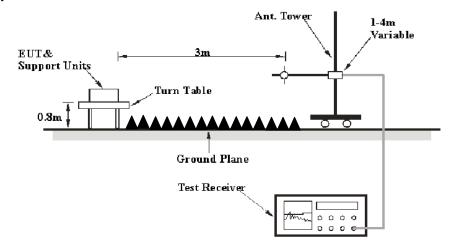
Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. (k=2, 95% level of confidence).

EUT Setup

Below 1 GHz:



Above 1 GHz:



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The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209 and FCC 15.247 limits.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	Ave.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01057	2011-11-24	2012-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2012-11-27
Mini-Circuits	Amplifier	ZVA-213+	N/A	2011-11-24	2012-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2012-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
Agilent	Spectrum Analyzer	8564E	3943A01781	2012-05-17	2013-05-16
the electro- Mechanics Co.	Horn Antenna	3116	9510-2270	2011-10-14	2012-10-13
R&S	Auto test Software	EMC32	V6.30	N/A	N/A

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements.

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Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247,</u> with the worst margin reading of:

16.58 dB at 9764 MHz in the Horizontal polarization

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Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100 kPa

The testing was performed by Gardon Zhang on 2012-08-14.

Test mode: Transmitting (Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK, the worst case is BDR Mode (GFSK))

30 MHz ~25 GHz:

Frequency	Re	ceiver	Turntable	Rx An	tenna	Corrected	Corrected	FC	C Part 15	.247
(MHz)	Reading (dBμV/m)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Comment
Low Channel (2402 MHz)										
2402	90.25	PK	33	1.20	Н	6.13	96.38	N/A	N/A	Fund.
2402	79.36	Ave.	33	1.20	Н	6.13	85.49	N/A	N/A	Fund.
2402	87.96	PK	7	1.10	V	6.13	94.09	N/A	N/A	Fund.
2402	76.33	Ave.	7	1.10	V	6.13	82.46	N/A	N/A	Fund.
9608	17.88	Ave.	4	1.30	Н	19.28	37.16	54.00	16.84	Harmonic
7206	17.67	Ave.	27	1.20	V	17.06	34.73	54.00	19.27	Harmonic
4804	22.14	Ave.	42	1.20	V	12.40	34.54	54.00	19.46	Harmonic
9608	33.96	PK	4	1.30	Н	19.28	53.24	74.00	20.76	Harmonic
368.6	35.84	QP	43	1.10	Н	-10.72	25.12	46.00	20.88	Spurious
7206	33.28	PK	27	1.20	V	17.06	50.34	74.00	23.66	Harmonic
2484.3	22.86	Ave.	13	1.10	V	6.81	29.67	54.00	24.33	Spurious
4804	36.73	PK	42	1.20	V	12.40	49.13	74.00	24.87	Harmonic
2362.5	22.39	Ave.	13	1.10	V	5.48	27.87	54.00	26.13	Spurious
2331.3	21.43	Ave.	6	1.20	Н	5.48	26.91	54.00	27.09	Spurious
2484.3	37.25	PK	13	1.10	V	6.81	44.06	74.00	29.94	Spurious
2362.5	37.69	PK	13	1.10	V	5.48	43.17	74.00	30.83	Spurious
2331.3	35.42	PK	6	1.20	Н	5.48	40.90	74.00	33.10	Spurious
			M	iddle Cha	nnel (244	1 MHz)				
2441	89.63	PK	3	1.20	Н	7.21	96.84	N/A	N/A	Fund.
2441	78.58	Ave.	3	1.20	Н	7.21	85.79	N/A	N/A	Fund.
2441	87.99	PK	44	1.20	V	6.81	94.8	N/A	N/A	Fund.
2441	76.31	Ave.	44	1.20	V	6.81	83.12	N/A	N/A	Fund.
9764	18.02	Ave.	10	1.20	Н	19.40	37.42	54.00	16.58	Harmonic
712.7	30.78	QP	78	1.20	Н	-2.93	27.85	46.00	18.15	Spurious
4882	22.91	Ave.	13	1.10	V	12.46	35.37	54.00	18.63	Harmonic
7323	17.06	Ave.	35	1.10	V	16.49	33.55	54.00	20.45	Harmonic

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Ray Area	Compliance	Laboratories	Corn	(Shenzhen)	
Day Alea	Compliance	Laboratories	COLD.	SHEHZHEIL	

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9764	33.29	PK	10	1.20	Н	19.40	52.69	74.00	21.31	Harmonic
7323	33.23	PK	35	1.10	V	16.49	49.72	74.00	24.28	Harmonic
4882	37.05	PK	13	1.10	V	12.46	49.51	74.00	24.49	Harmonic
2487.6	22.67	Ave.	38	1.20	V	6.81	29.48	54.00	24.52	Spurious
2364.1	22.99	Ave.	13	1.30	V	5.48	28.47	54.00	25.53	Spurious
2331.1	22.09	Ave.	115	1.20	Н	5.48	27.57	54.00	26.43	Spurious
2487.6	37.81	PK	38	1.20	V	6.81	44.62	74.00	29.38	Spurious
2364.1	37.85	PK	13	1.30	V	5.48	43.33	74.00	30.67	Spurious
2331.1	36.39	PK	115	1.20	Н	5.48	41.87	74.00	32.13	Spurious
]	High Chan	nel (2480	MHz)				
2480	89.37	PK	85	1.10	H	7.21	96.58	N/A	N/A	Fund.
2480	78.58	Ave.	85	1.10	Н	7.21	85.79	N/A	N/A	Fund.
2480	87.32	PK	43	1.20	V	6.81	94.13	N/A	N/A	Fund.
2480	76.94	Ave.	43	1.20	V	6.81	83.75	N/A	N/A	Fund.
9920	17.81	Ave.	13	1.10	Н	19.38	37.19	54.00	16.81	Harmonic
794.1	30.06	QP	223	1.10	Н	-1.92	28.14	46.00	17.86	Spurious
4960	22.29	Ave.	41	1.20	V	12.50	34.79	54.00	19.21	Harmonic
7440	17.42	Ave.	37	1.10	V	15.90	33.32	54.00	20.68	Harmonic
9920	33.69	PK	13	1.10	Н	19.38	53.07	74.00	20.93	Harmonic
2485.5	22.97	Ave.	57	1.20	V	6.81	29.78	54.00	24.22	Spurious
7440	33.65	PK	37	1.10	V	15.90	49.55	74.00	24.45	Harmonic
4960	36.76	PK	41	1.20	V	12.50	49.26	74.00	24.74	Harmonic
2363.4	22.64	Ave.	4	1.20	V	5.48	28.12	54.00	25.88	Spurious
2335.1	22.03	Ave.	33	1.30	Н	5.48	27.51	54.00	26.49	Spurious
2485.5	37.14	PK	57	1.20	V	6.81	43.95	74.00	30.05	Spurious

1.20

1.30

V

Н

5.48

5.48

42.42

41.79

74.00

74.00

31.58

32.21

Spurious

Spurious

Note:

2363.4

2335.1

36.94

36.31

Corrected Amplitude = Corrected Factor + Reading
Corrected Factor = Antenna factor (RX) + Cable loss - Amplifier factor
Margin = Limit - Corr. Amplitude

4

33

PK

PK

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FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

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

Report No.: RSZ120808801-00

Test Procedure

- 1. Set the EUT in transmitting mode, RBW of spectrum was set at 10 kHz, maxhold the channel.
- 2. Set the adjacent channel of the EUT maxhold another trace
- 3. Measure the channel separation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements.

Test Data

Environmental Conditions

Temperature:	25 ℃		
Relative Humidity:	56 %		
ATM Pressure:	100 kPa		

^{*} The testing was performed by Gardon Zhang on 2012-08-16.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

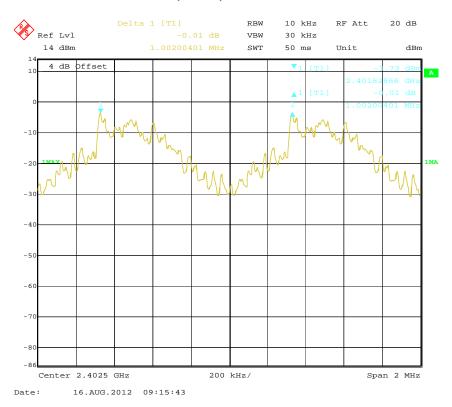
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Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	≥Limit (MHz)	Result
	Low	2402	1.002	0.580	Pass
	Adjacent	2403	1.002	0.380	rass
BDR	Middle	2441	1.002	0.580	Pass
(GFSK)	Adjacent	2440	1.002	0.380	Pass
	High	2480	1.002	0.500	Pass
	Adjacent	2479	1.002	0.580	Pass
	Low	2402	1.004	0.020	Dogg
	Adjacent	2403	1.004	0.828	Pass
EDR	Middle	2441	1.004	0.828	Pass
$(\pi/4-DQPSK)$	Adjacent	2440	1.004	0.828	Pass
	High	2480	1.004	0.828	D
	Adjacent	2479	1.004		Pass
	Low	2402	1.004	0.020	D
EDR	Adjacent	2403	1.004	0.820	Pass
	Middle	2441	1.004	0.020	D
(8DPSK)	Adjacent	2440	1.004	0.820	Pass
	High	2480	1.004	0.020	Dogg
	Adjacent	2479	1.004	0.820	Pass

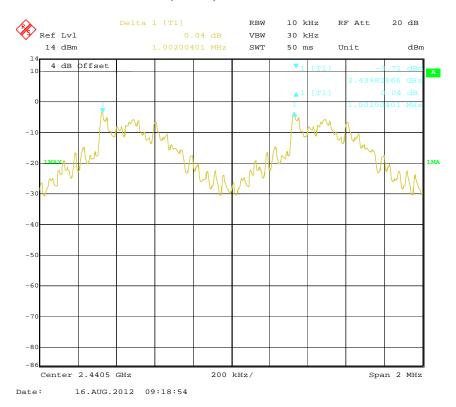
Note: Limit = 20 dB bandwidth* 2/3

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BDR (GFSK): Low Channel

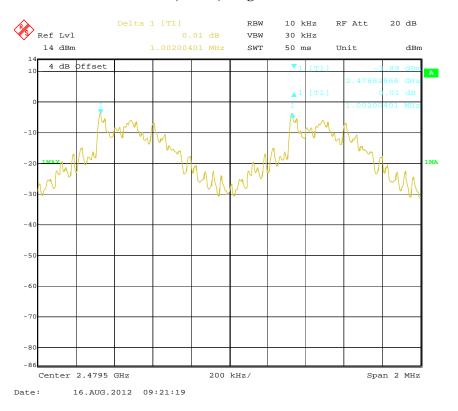


BDR (GFSK): Middle Channel

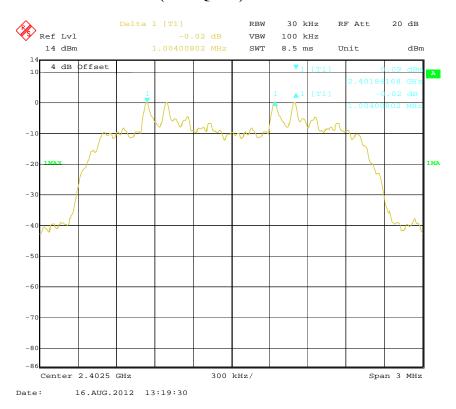


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BDR (GFSK): High Channel

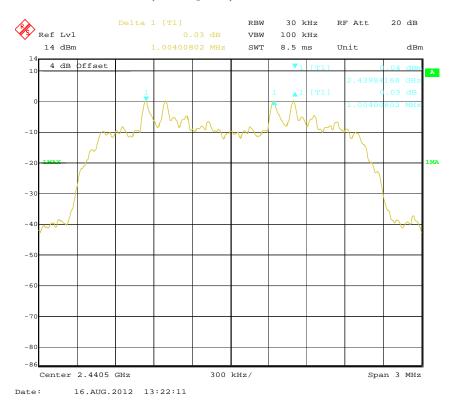


EDR ($\pi/4$ -DQPSK): Low Channel

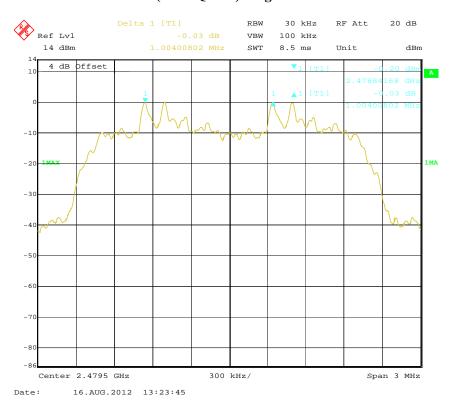


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EDR ($\pi/4$ -DQPSK): Middle Channel

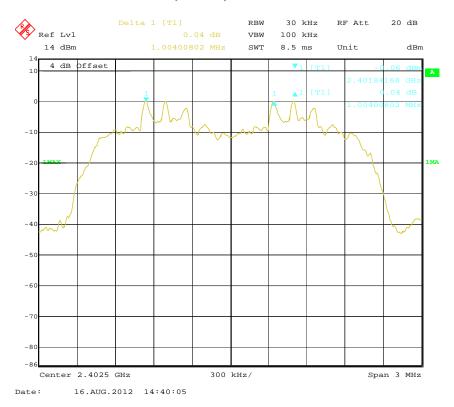


EDR ($\pi/4$ -DQPSK): High Channel

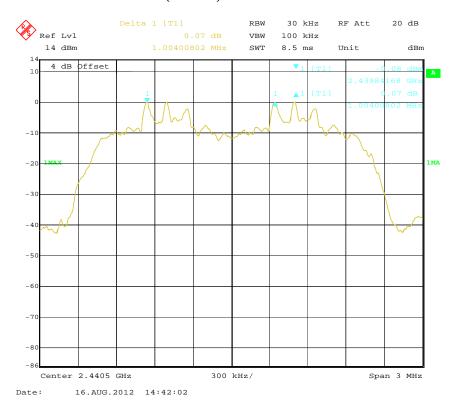


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EDR (8DPSK): Low Channel



EDR (8DPSK): Middle Channel



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EDR (8DPSK): High Channel



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FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH TESTING

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Report No.: RSZ120808801-00

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25℃
Relative Humidity:	56 %
ATM Pressure:	100 kPa

^{*} The testing was performed by Gardon Zhang on 2012-08-16.

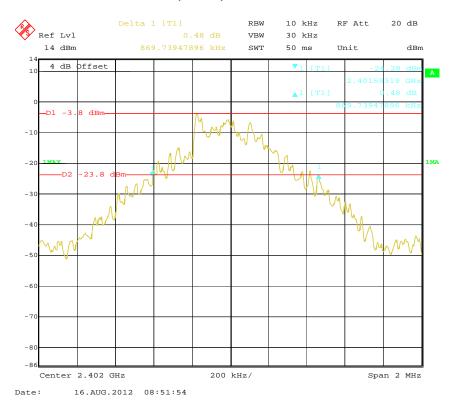
Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

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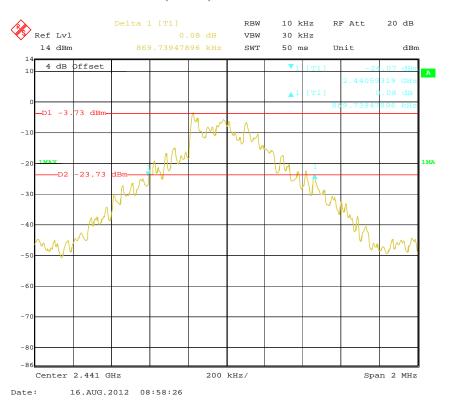
Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
	Low	2402	0.870
BDR (GFSK)	Middle	2441	0.870
(31.323)	High	2480	0.870
	Low	2402	1.242
EDR (π/4-DQPSK)	Middle	2441	1.242
(11, 12, 21, 212)	High	2480	1.242
	Low	2402	1.230
EDR (8DPSK)	Middle	2441	1.230
	High	2480	1.230

BDR (GFSK): Low Channel

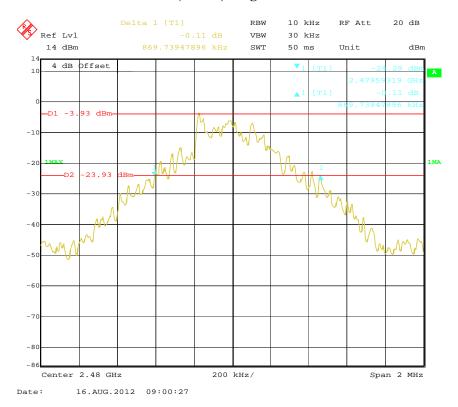


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BDR (GFSK): Middle Channel

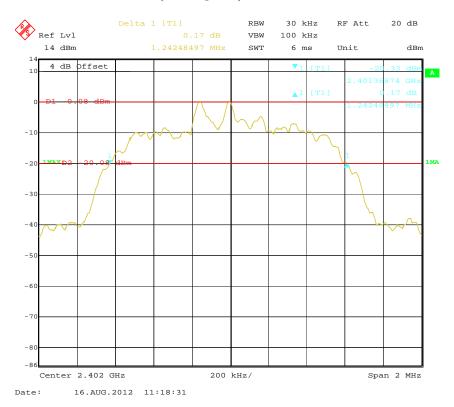


BDR (GFSK): High Channel

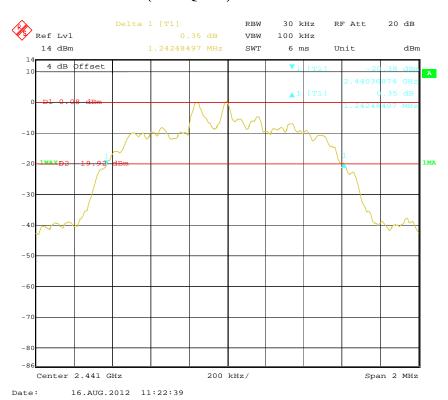


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EDR ($\pi/4$ -DQPSK): Low Channel

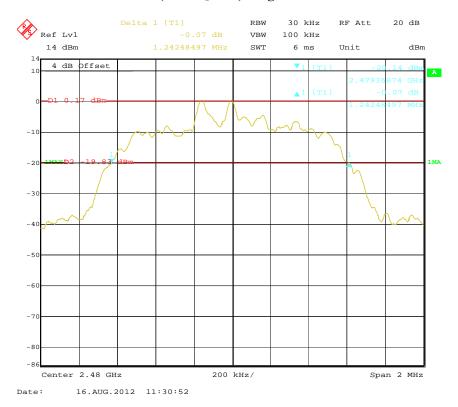


EDR ($\pi/4$ -DQPSK): Middle Channel

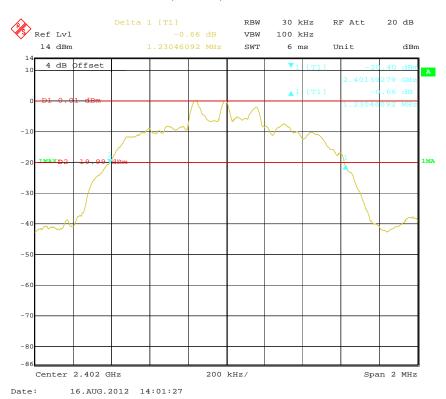


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EDR ($\pi/4$ -DQPSK): High Channel

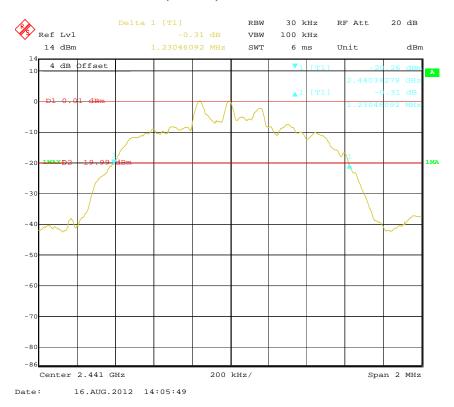


EDR (8DPSK): Low Channel

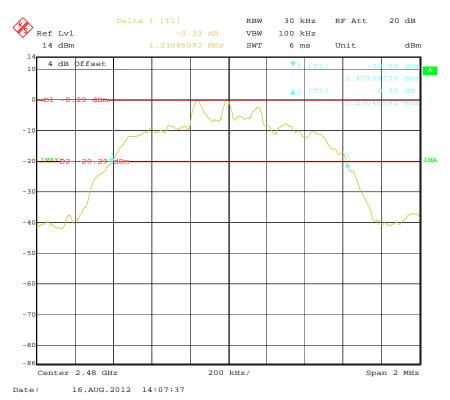


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EDR (8DPSK): Middle Channel



EDR (8DPSK): High Channel



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FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Report No.: RSZ120808801-00

Test Procedure

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the Max-Hold function record the Quantity of the channel.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date		
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23	

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25℃
Relative Humidity:	56 %
ATM Pressure:	100 kPa

The testing was performed by Gardon Zhang on 2012-08-16.

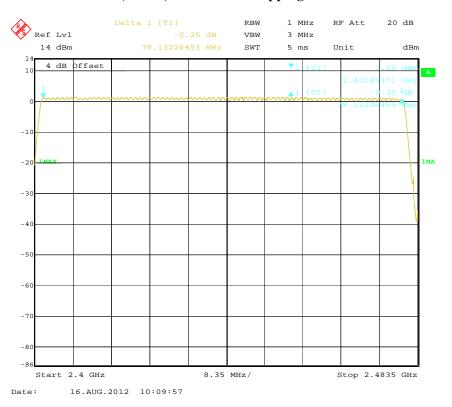
Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

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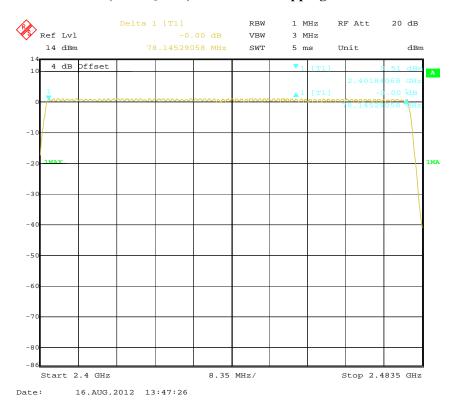
Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)	
BDR (GFSK)	2400-2483.5	79	≥15	
EDR (π/4-DQPSK)	2400-2483.5	79	≥15	
EDR (8DPSK)	2400-2483.5	79	≥15	

BDR (GFSK): Number of Hopping Channels

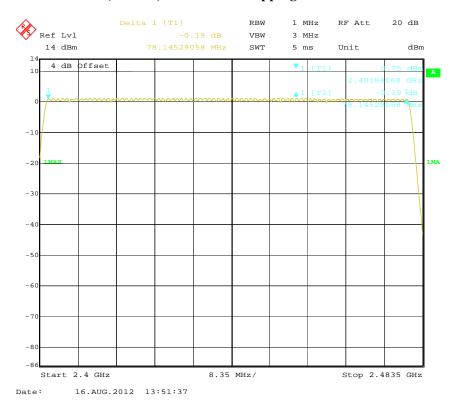


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EDR ($\pi/4$ -DQPSK): Number of Hopping Channels



(8DPSK): Number of Hopping Channels



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FCC §15.247(a) (1) (iii) -TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Report No.: RSZ120808801-00

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 X channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell time = Pulse time*hope rate/number of hopping channels*31.6S Hop rate=1600/S

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100 kPa

The testing was performed by Gardon Zhang on 2012-08-16.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

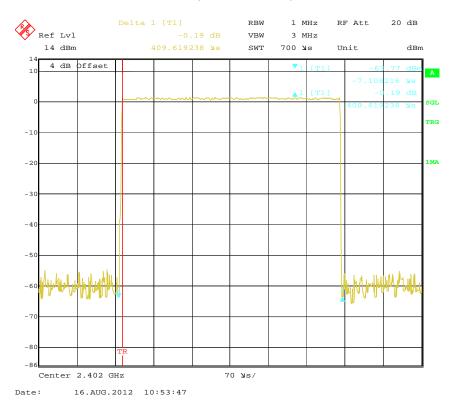
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Mode	2	Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result
BDR		Low	0.4096	0.1311	0.4	Pass
	DH 1	Middle	0.4096	0.1311	0.4	Pass
	рп ι	High	0.4096	0.1311	0.4	Pass
	-	Note:	DH1:Dwell time = P	ulse time*(1600/	2/79)*31.6S	
		Low	1.6749	0.2680	0.4	Pass
	DH 3	Middle	1.6749	0.2680	0.4	Pass
(GFSK)	рн 3	High	1.6749	0.2680	0.4	Pass
		Note:	DH3:Dwell time = P	ulse time*(1600/	4/79)*31.6S	
		Low	2.9285	0.3124	0.4	Pass
	DH	Middle	2.9285	0.3124	0.4	Pass
	DH 5	High	2.9285	0.3124	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
		Low	0.4228	0.1353	0.4	Pass
		Middle	0.4228	0.1353	0.4	Pass
	DH 1	High	0.4228	0.1353	0.4	Pass
	-	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.6854	0.2697	0.4	Pass
EDR		Middle	1.6854	0.2697	0.4	Pass
$(\pi/4\text{-DQPSK})$		High	1.6854	0.2697	0.4	Pass
	-	Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.9389	0.3135	0.4	Pass
		Middle	2.9389	0.3135	0.4	Pass
		High	2.9389	0.3135	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
	DH 1	Low	0.4202	0.1345	0.4	Pass
		Middle	0.4202	0.1345	0.4	Pass
		High	0.4202	0.1345	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.6828	0.2692	0.4	Pass
EDR (8DPSK)		Middle	1.6828	0.2692	0.4	Pass
		High	1.6828	0.2692	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.9363	0.3132	0.4	Pass
		Middle	2.9363	0.3132	0.4	Pass
		High	2.9363	0.3132	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				1

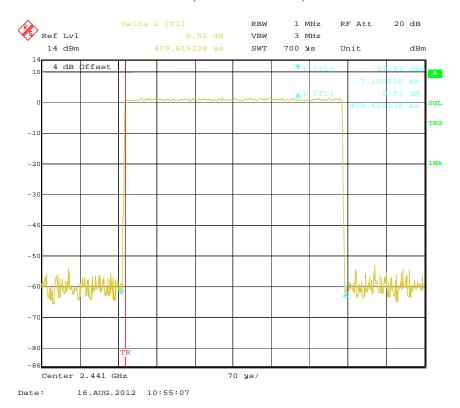
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BDR (GFSK):

Pulse time, Low Channel, DH1

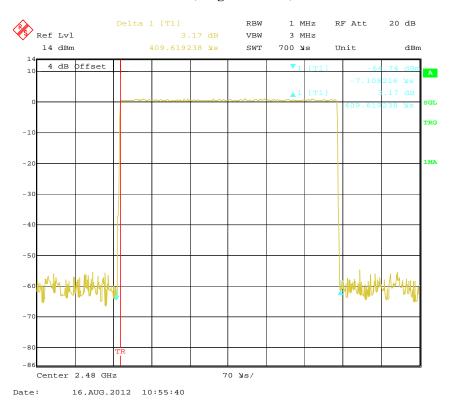


Pulse time, Middle Channel, DH1

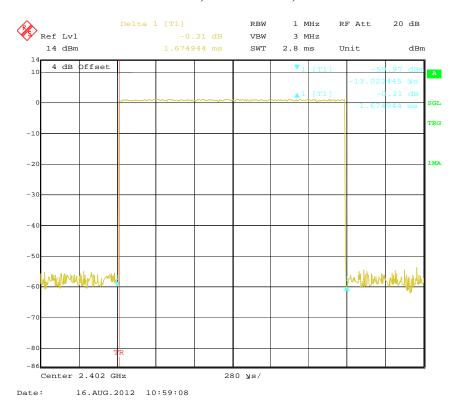


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Pulse time, High Channel, DH1

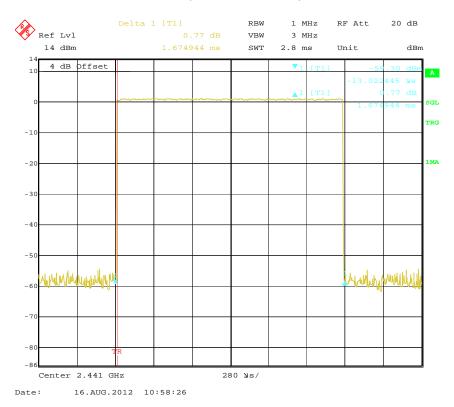


Pulse time, Low Channel, DH3

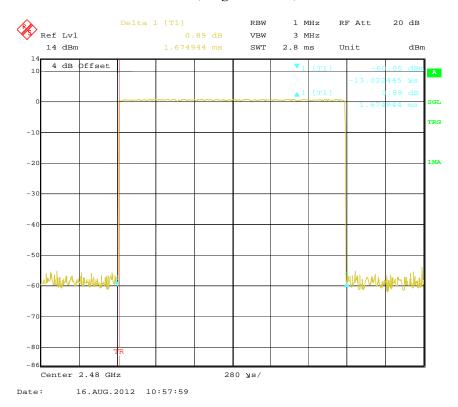


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Pulse time, Middle Channel, DH3

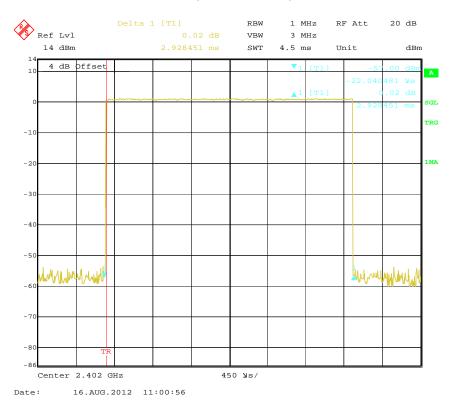


Pulse time, High Channel, DH3

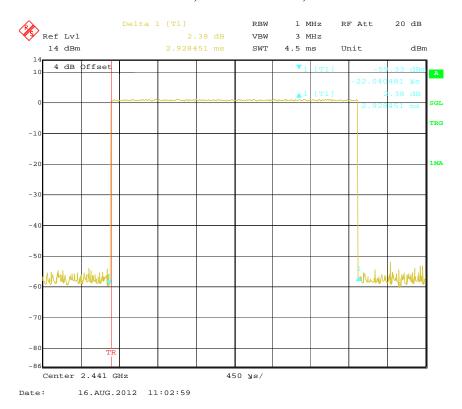


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Pulse time, Low Channel, DH5

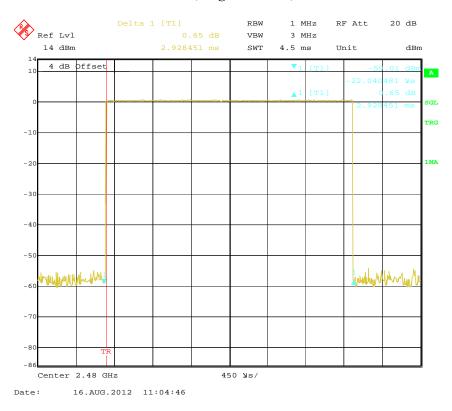


Pulse time, Middle Channel, DH5



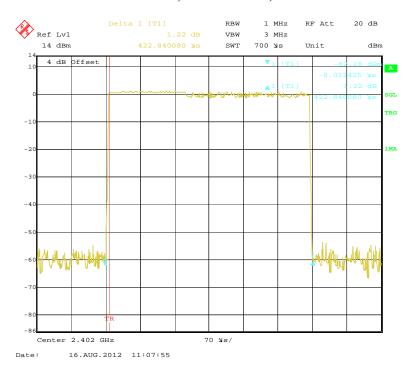
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Pulse time, High Channel, DH5



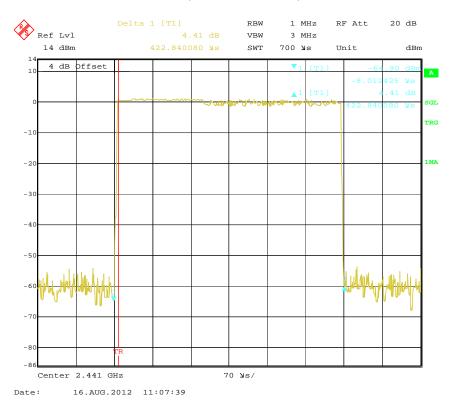
EDR ($\pi/4$ -DQPSK):

Pulse time, Low Channel, DH1

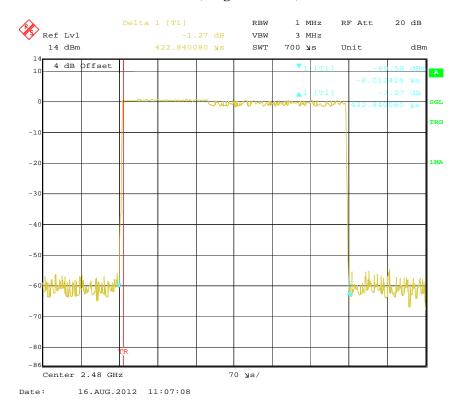


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Pulse time, Middle Channel, DH1

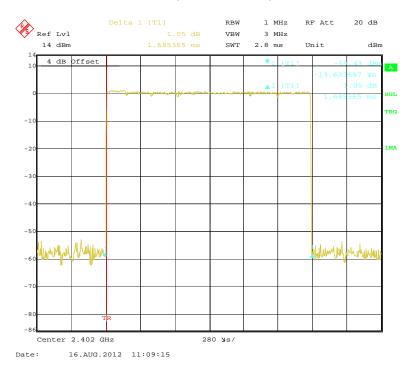


Pulse time, High Channel, DH1

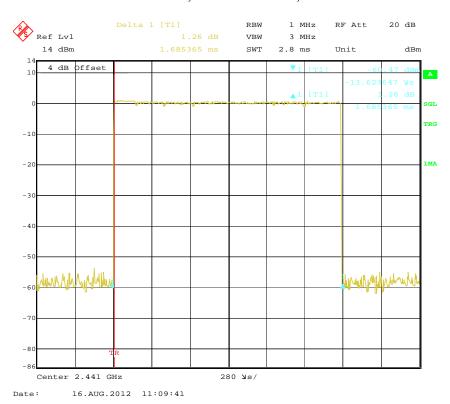


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Pulse time, Low Channel, DH3

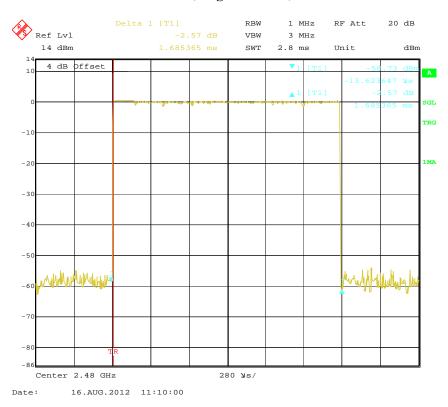


Pulse time, Middle Channel, DH3

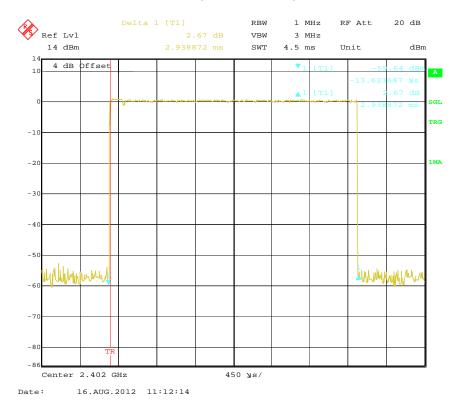


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Pulse time, High Channel, DH3

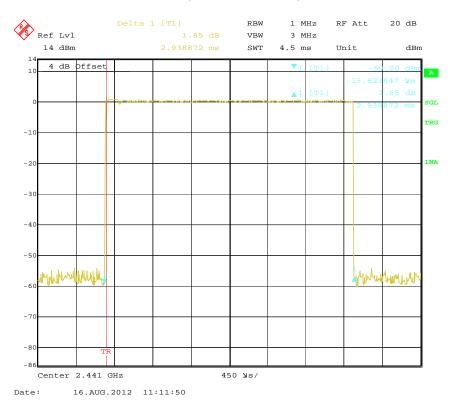


Pulse time, Low Channel, DH5

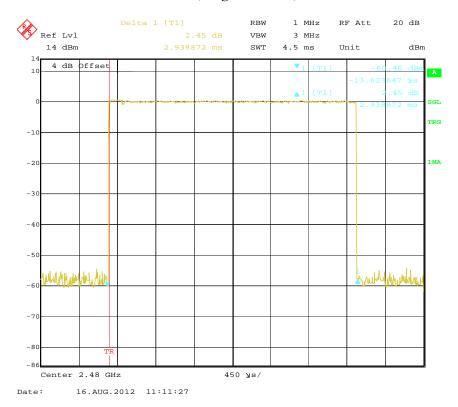


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Pulse time, Middle Channel, DH5



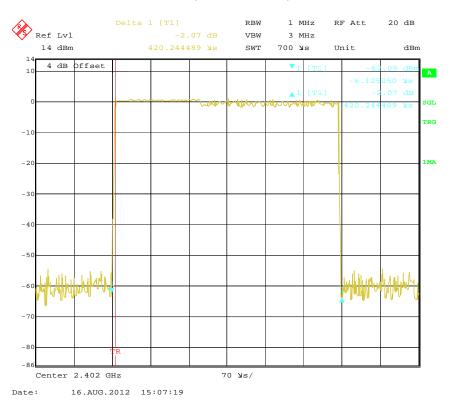
Pulse time, High Channel, DH5



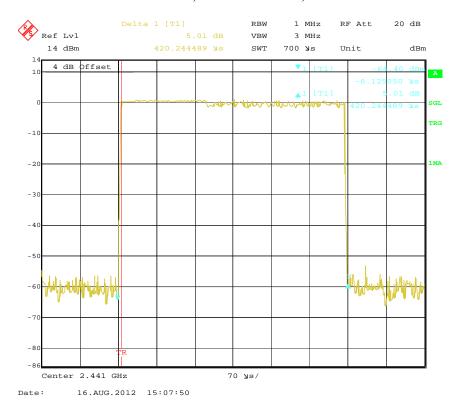
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EDR (8DPSK):

Pulse time, Low Channel, DH1

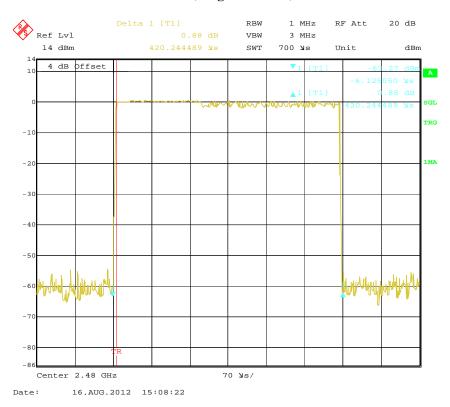


Pulse time, Middle Channel, DH1

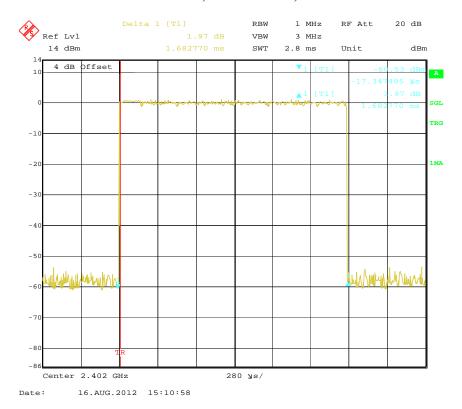


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Pulse time, High Channel, DH1

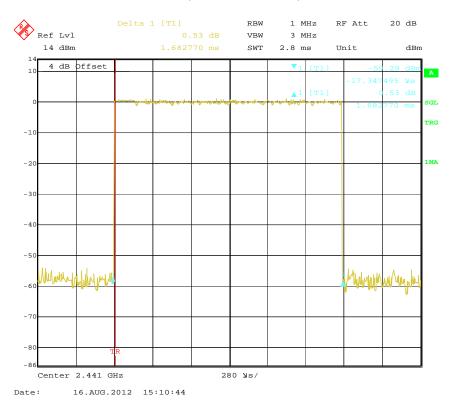


Pulse time, Low Channel, DH3

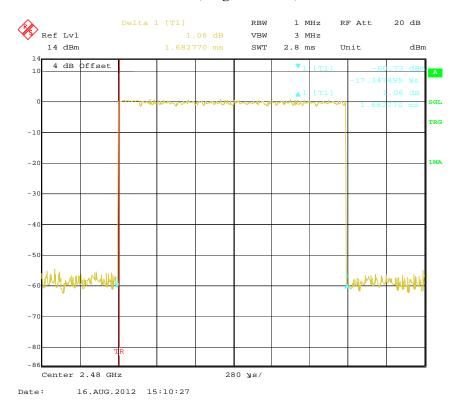


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Pulse time, Middle Channel, DH3

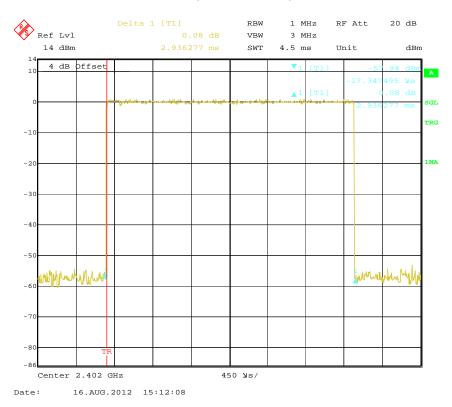


Pulse time, High Channel, DH3

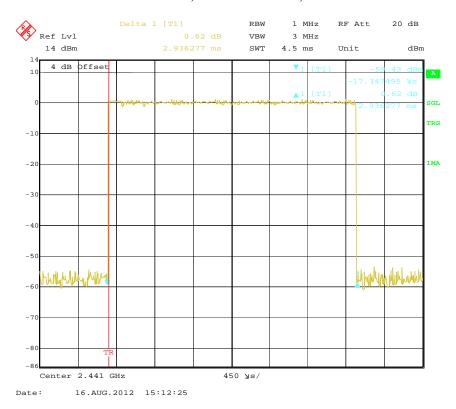


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Pulse time, Low Channel, DH5

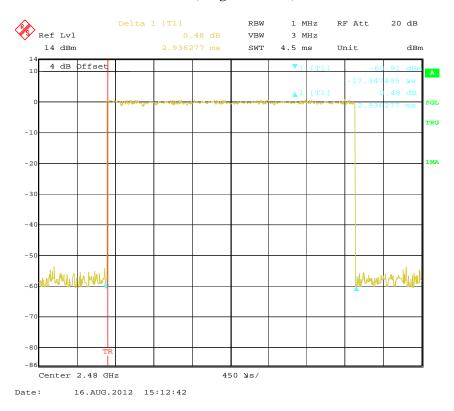


Pulse time, Middle Channel, DH5



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Pulse time, High Channel, DH5



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FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

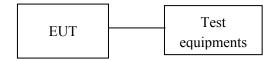
Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Report No.: RSZ120808801-00

Test Procedure

- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
- 3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements.

Test Data

Environmental Conditions

Temperature:	25℃	
Relative Humidity:	56 %	
ATM Pressure:	100 kPa	

The testing was performed by Gardon Zhang on 2012-08-16.

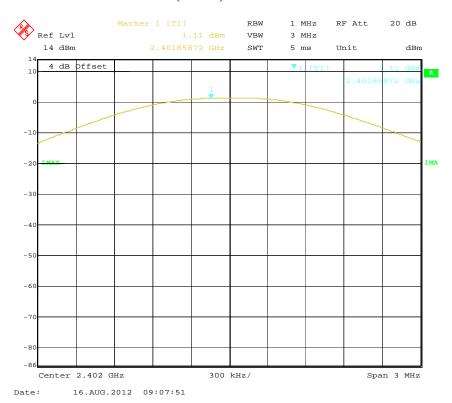
Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

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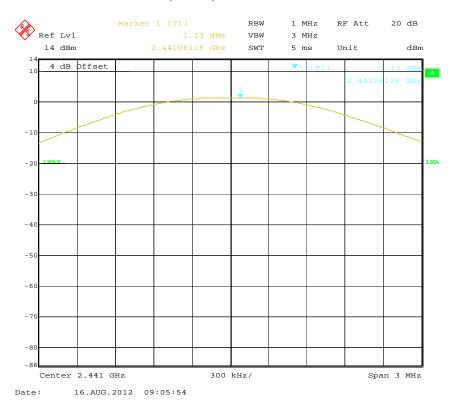
Mode	Channel	Frequency (MHz)	Conducted C	Limit	
			(dBm)	(mW)	(mW)
BDR (GFSK)	Low	2402	1.11	1.291	1000
	Middle	2441	1.13	1.297	1000
	High	2480	0.85	1.216	1000
EDR (π/4-DQPSK)	Low	2402	1.22	1.324	1000
	Middle	2441	1.16	1.306	1000
	High	2480	0.85	1.216	1000
EDR (8DPSK)	Low	2402	1.32	1.355	1000
	Middle	2441	1.28	1.343	1000
	High	2480	0.91	1.233	1000

BDR (GFSK): Low Channel

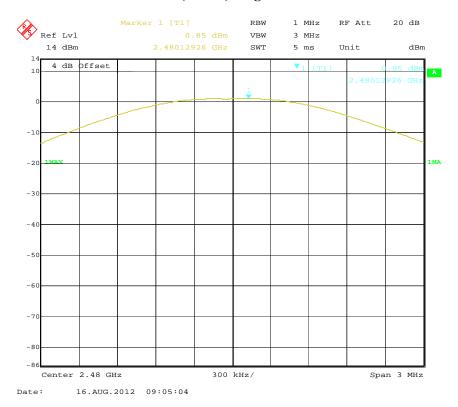


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BDR (GFSK): Middle Channel

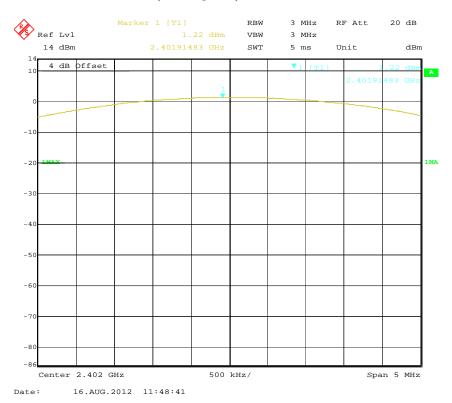


BDR (GFSK): High Chanel

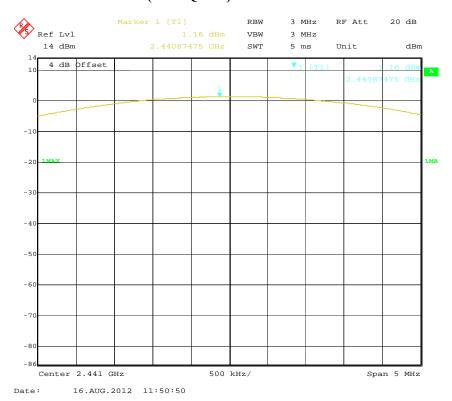


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EDR($\pi/4$ -DQPSK): Low Channel

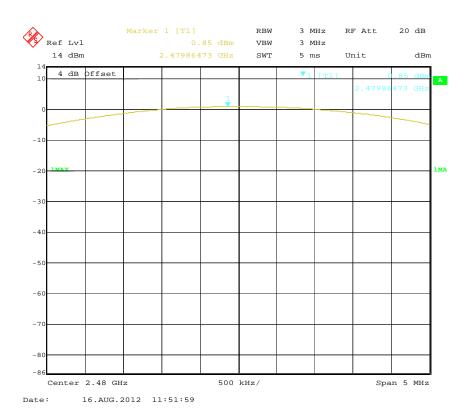


EDR($\pi/4$ -DQPSK): Middle Channel

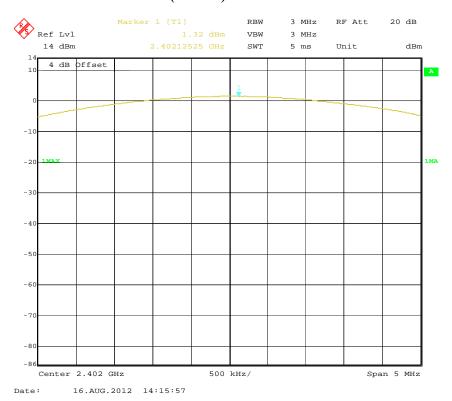


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EDR($\pi/4$ -DQPSK): High Chanel

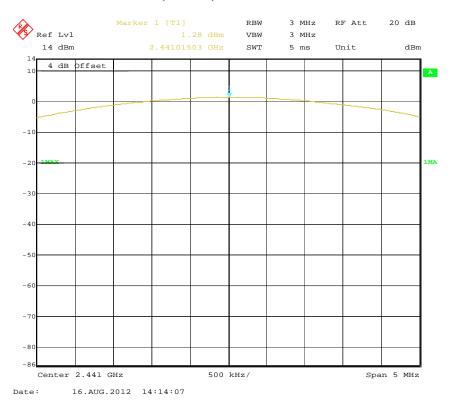


EDR(8DPSK): Low Channel

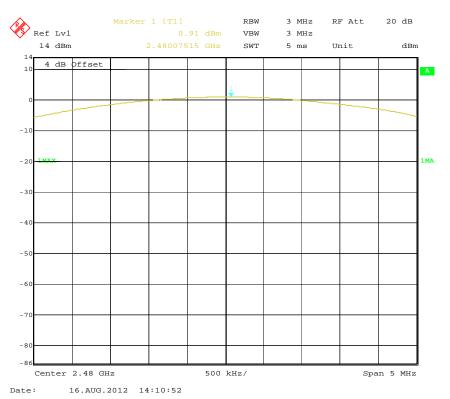


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EDR(8DPSK): Middle Channel



EDR(8DPSK): High Chanel



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FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Report No.: RSZ120808801-00

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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Test Data

Environmental Conditions

Temperature:	25℃	
Relative Humidity:	56 %	
ATM Pressure:	100 kPa	

The testing was performed by Gardon Zhang on 2012-08-16.

Test Mode: Transmitting

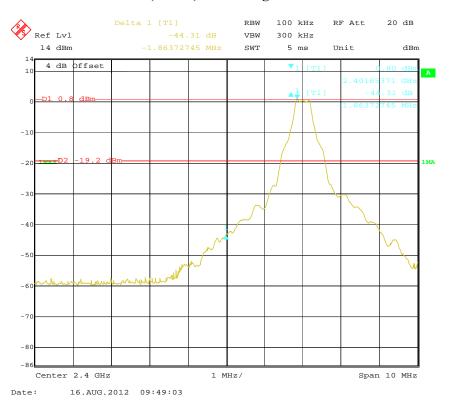
Test Result: Compliance. Please refer to following table and plots

Mode	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)
BDR (GFSK)	2399.99	44.31	> 20
	2483.59	57.06	> 20
EDR (π/4-DQPSK)	2399.99	49.47	> 20
	2483.59	57.85	> 20
EDR (8DPSK)	2399.93	49.35	>20
	2484.35	58.41	> 20

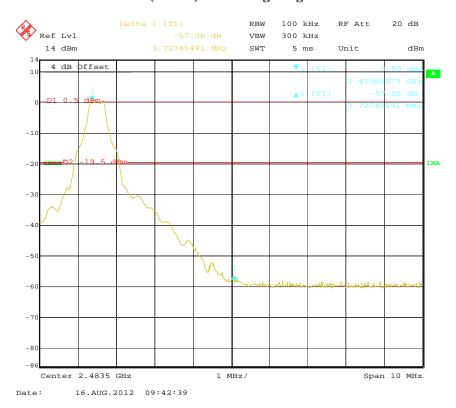
Report No.: RSZ120808801-00

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BDR (GFSK): Band Edge-Left Side

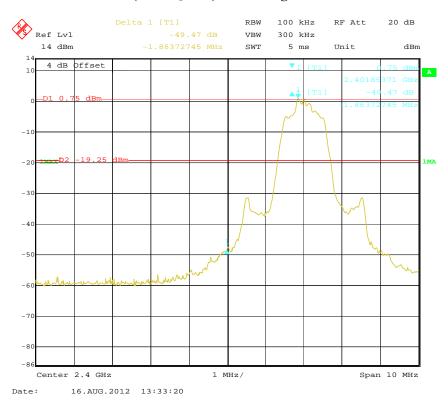


BDR (GFSK): Band Edge-Right Side

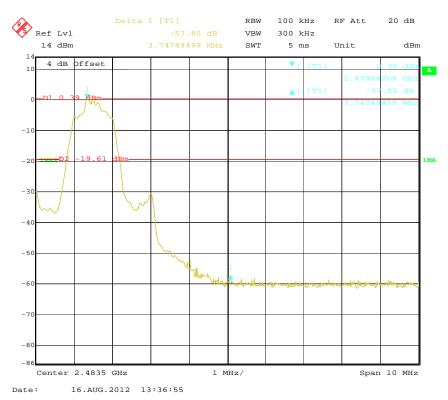


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EDR ($\pi/4$ -DQPSK): Band Edge-Left Side

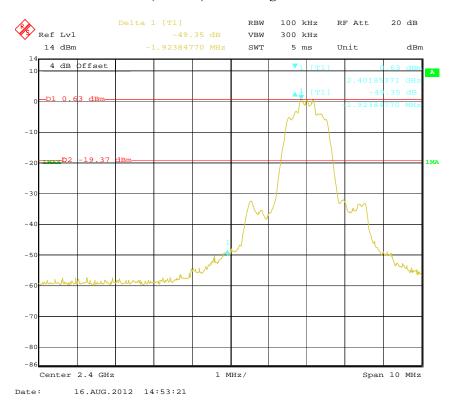


EDR (π /4-DQPSK): Band Edge-Right Side

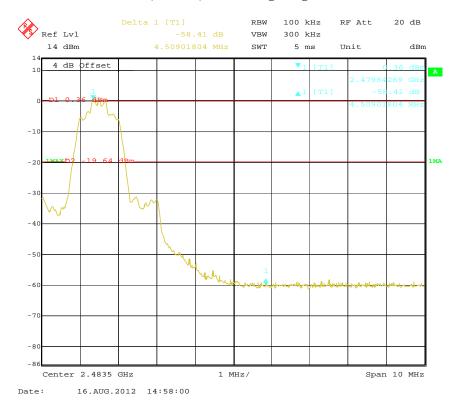


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EDR (8DPSK): Band Edge-Left Side



EDR (8DPSK): Band Edge-Right Side



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PRODUCT SIMILARITY DECLARATION LETTER



WECCAN INDUSTRIAL LIMITED

30/F, Building C1, Xinghe Century, Caitian South Road, Futian District, Shenzhen, Guangdong Province, P.R.C

Tel: +86 755 82555835

Fax: +86 755 82716760

Report No.: RSZ120808801-00

Product Similarity Declaration

To Whom It May Concern,

We WECCAN INDUSTRIAL LIMITED, Hereby declare that our iOS and Android Bluetooth Helicopter Model Number i717,i727,i737,i747,i757,i777,i787,i797 Electrically identical with the Model Number i767 that was certified by BACL. The differences between i717, i727, i737, i747, i757, i777, i787, i797 and i767 are their appearance Color and model Number. Due to marketing purposes.

Please contact me if you have any question.

For and on behalf of
WECCAN INDUSTRIAL LANTED
Signature 東京東京東京東京

Amanda Gu

Authorized Signature(s)

Vice President

2012-08-16

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

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