

FCC PART 90

TEST REPORT

For

SHENZHEN SAMHOO SCI&TECH CO., LTD.

Room 406 Floor 4th, Building 16th, Shangsha Innovation Sci & Tech Park, Binhe Road, Shenzhen, China

FCC ID: 2ABUBGC714968

Report Type: **Product Type:** Original Report Digital Two Way Radio **Test Engineer:** Candy Li **Report Number:** RSZ140106003-00A **Report Date:** 2014-03-18 xiao Jimmy Xiao Jimmy **Reviewed By:** RF Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) Prepared By: 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The SHENZHEN SAMHOO SCI&TECH CO., LTD.'s product, model number: SPH6040 (FCC ID: 2ABUBGC714968) or the "EUT" in this report was a Digital Two Way Radio, which was measured approximately: 128 mm (L) x 55 mm (W) x 35.5 mm (H), rated input voltage: DC 7.4V battery.

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*All measurement and test data in this report was gathered from production sample serial number: 1401013 (Assigned by BACL, Shenzhen). The EUT supplied by applicant was received on 2014-01-06.

Objective

This test report is prepared on behalf of SHENZHEN SAMHOO SCI&TECH CO., LTD. in accordance with Part 2 and Part 90 of the Federal Communication Commissions rules.

Related Submittal(s)/Grant(s)

No related submittal(s)

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, Sub-part J as well as the following individual parts:

Part 90 - Private Land Mobile Radio Service

Applicable Standards: TIA 603-D and ANSI 63.4-2009.

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.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

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.

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.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode which has been done in the factory.

Equipment Modifications

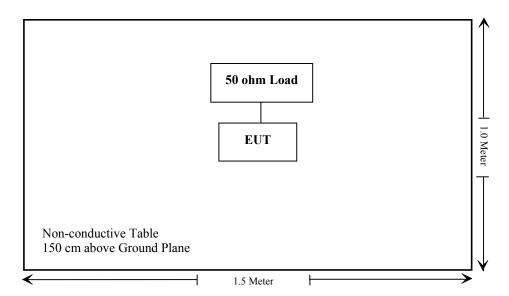
No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
N/A	50 ohm Load	N/A	N/A

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§1.1307 (b)(1), §2.1093	RF Exposure	Compliance
§2.1046; §90.205	RF Output Power	Compliance
§2.1047; §90.207	Modulation Characteristic	Compliance
§2.1049; §90.209; §90.210	Occupied Bandwidth & Emission Mask	Compliance
§2.1051; §90.210	Spurious Emission at Antenna Terminal	Compliance
§2.1053; §90.210	Spurious Radiated Emissions	Compliance
§2.1055; §90.213	Frequency Stability	Compliance
§90.214	Transient Frequency Behavior	Compliance

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FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §1.1307(b) and §2.1093, protable device operates Part 90 should be subjected to rountine environmental evaluation for RF exposure prior or equipment authorization or use.

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Result: Compliance.

Please refer to SAR Report Number: RSZ140106003-20

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FCC §2.1046 & §90.205 - RF OUTPUT POWER

Applicable Standard

FCC §2.1046 and §90.205

Test Procedure

Conducted RF Output Power:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

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Spectrum Analyzer Setting:

R B/W Video B/W 100 kHz 300 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Candy Li on 2014-03-08.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following table.

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Modulation	Channel Spacing (kHz)	Frequency (MHz)	Conducted Output Power (dBm)	Conducted Output Power (W)	Power level
		400.0125	36.64	4.61	High Power
		400.0125	30.48	1.12	Low Power
A	10.5	425.0125	36.63	4.60	High Power
Analog	12.5	435.0125	30.29	1.07	Low Power
		460.0075	36.55	4.52	High Power
		469.9875	30.26	1.07	Low Power
		400.0125	36.64	4.61	High Power
		400.0125	30.55	1.14	Low Power
D: -:4-1		425.0125	36.61	4.58	High Power
Digital	12.5	435.0125	30.29	1.07	Low Power
			36.54	4.51	High Power
		469.9875	30.23	1.05	Low Power

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FCC §2.1047 §90.207 - MODULATION CHARACTERISTIC

Applicable Standard

FCC§2.1047 and §90.207:

(a) Equipment which utilizes voice modulated communication shall show the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz. for equipment which is required to have a low pass filter, the frequency response of the filter, or all of the circuitry installed between the modulation limited and the modulated stage shall be supplied.

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(b) Equipment which employs modulation limiting, a curve showing the percentage of modulation versus the modulation input voltage shall be supplied.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
HP Agilent	RF Communication Test Set	8920A	3325U00859	2013-05-07	2014-05-07
LEADER	MILLIVOLTMETER	LMV-181A	6041126	2013-05-13	2014-05-13

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

Test Method: TIA/EIA-603 2.2.3

Test Data

Environmental Conditions

Temperature:	23 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Candy Li on 2014-03-08.

Test Mode: Transmitting

Result: Compliance.

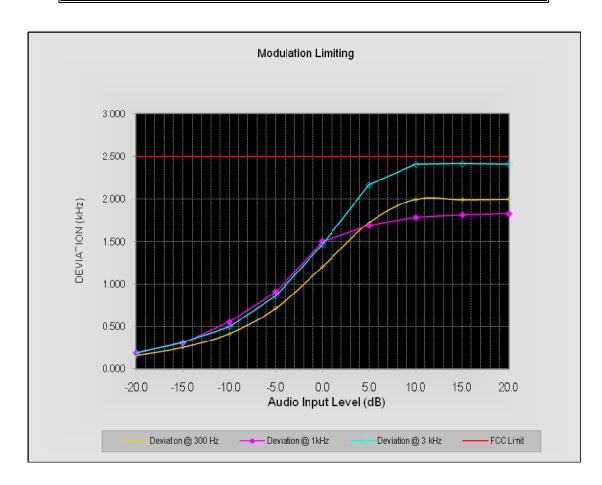
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MODULATION LIMITING

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Carrier Frequency: 435.0125 MHz, Channel Separation=12.5 kHz

Audio Input	Frequency Deviation (kHz)			Limit
Level [dB]	@ 300 Hz	@ 1kHz	@ 3 kHz	[kHz]
20.0	2.001	1.829	2.411	2.5
15.0	1.994	1.814	2.414	2.5
10.0	1.996	1.782	2.408	2.5
5.0	1.717	1.688	2.164	2.5
0.0	1.206	1.500	1.470	2.5
-5.0	0.716	0.906	0.863	2.5
-10.0	0.413	0.551	0.499	2.5
-15.0	0.256	0.302	0.310	2.5
-20.0	0.160	0.194	0.186	2.5

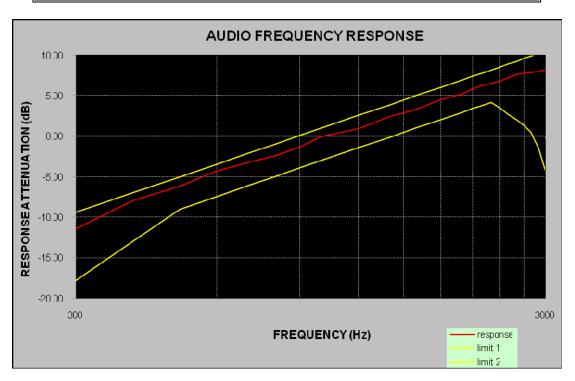


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Audio Frequency Response

Carrier Frequency: 435.0125 MHz, Channel Separation=12.5 kHz

Audio Frequency (Hz)	Response Attenuation (dB)
300	-11.44
400	-7.87
500	-6.13
600	-4.24
700	-3.20
800	-2.41
900	-1.33
1000	-0.03
1200	0.92
1400	2.44
1600	3.35
1800	4.56
2000	5.25
2100	5.81
2200	6.33
2300	6.53
2400	6.84
2500	7.23
2600	7.65
2700	7.80
2800	7.85
2900	8.04
3000	8.21

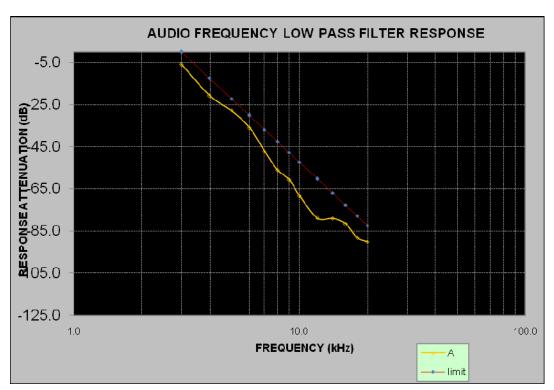


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Audio Frequency Low Pass Filter Response

Carrier Frequency: 435.0125 MHz, Channel Separation=12.5 kHz

Audio Frequency (kHz)	Response Attenuation (dB)	FCC Limit (dB)
1.0	0.0	/
3.0	-5.9	0.0
4.0	-20.7	-12.5
5.0	-27.8	-22.2
6.0	-36.0	-30.1
7.0	-47.1	-36.8
8.0	-56.1	-42.6
9.0	-60.6	-47.7
10.0	-68.4	-52.3
12.0	-78.8	-60.2
14.0	-79.0	-66.9
16.0	-81.6	-72.7
18.0	-88.2	-77.8
20.0	-90.2	-82.5



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FCC §2.1049 & §90.209 & §90.210 – OCCUPIED BANDWIDTH & EMISSION MASK

Applicable Standard

FCC §2.1049, §90.209 and §90.210

Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

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- 1) For any frequency removed from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 , 0dB.
- 2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.626 kHz but no more than 12.5 kHz, at least 7.27 (f_d –2.88 kHz) dB.
- 3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least 50 + 10 log (P) dB or 70 dB, whichever is the lesser attenuation.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31
HP Agilent	RF Communication Test Set	8920A	3325U00859	2013-05-07	2014-05-07

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 300 Hz and the spectrum was recorded in the frequency band ± 35 kHz from the carrier frequency.

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Test Data

Environmental Conditions

Temperature:	22 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

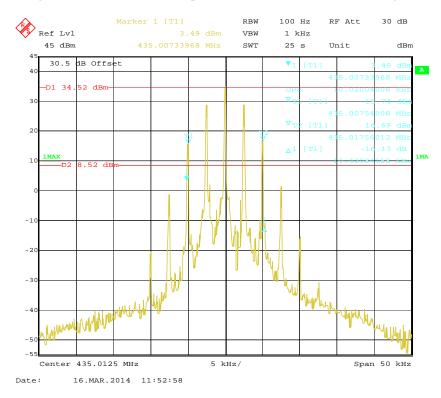
The testing was performed by Candy Li on 2014-03-16.

Test Mode: Transmitting

Modulation	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emissions Bandwidth (kHz)	Power Level
Amalaa	435.0125	10.42	10.02	High Power
Analog	433.0123	10.32	10.02	Low Power
Digital	425 0125	10.02	7.41	High Power
Digital	435.0125	9.42	7.21	Low Power

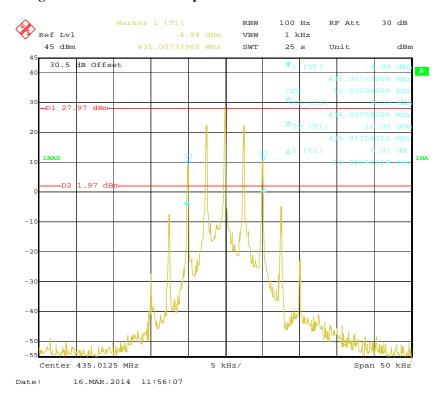
Report No.: RSZ140106003-00A

Analog Modulation: 99% Occupied & 26 dB Bandwidth with High Power

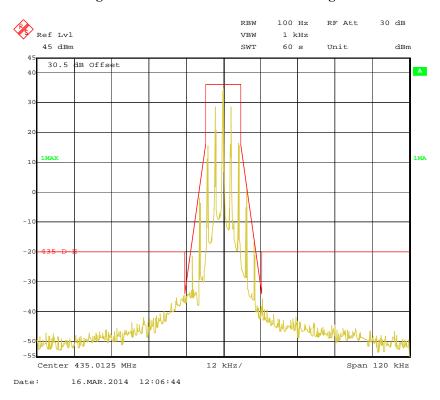


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Analog Modulation: 99% Occupied & 26 dB Bandwidth with Low Power

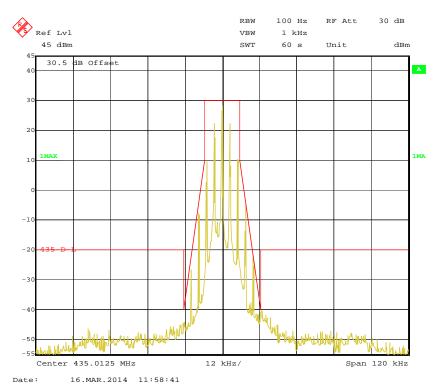


Analog Modulation: Emission Mask with High Power

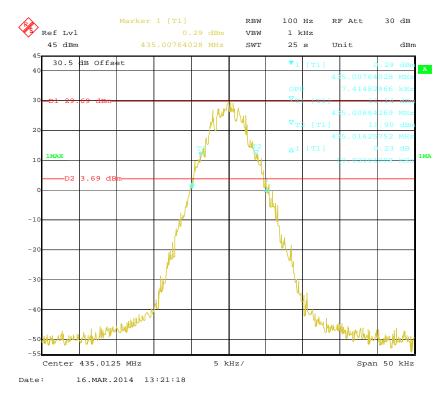


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Analog Modulation: Emission Mask with Low Power

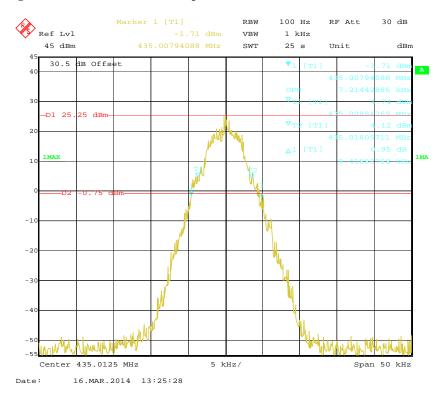


Digital Modulation: 99% Occupied & 26 dB Bandwidth with High Power

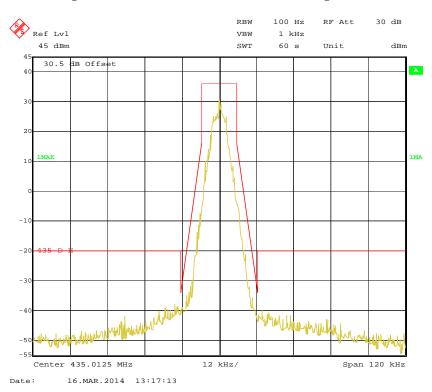


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Digital Modulation: 99% Occupied & 26 dB Bandwidth with Low Power

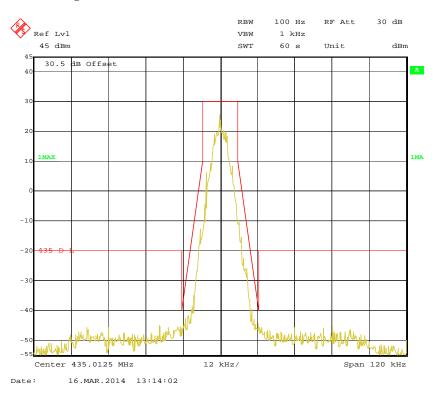


Digital Modulation: Emission Mask with High Power



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Digital Modulation: Emission Mask with Low Power



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FCC §2.1051 & §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- 1) For any frequency removed from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 , 0 dB.
- 2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.626 kHz but no more than 12.5 kHz, at least 7.27 (f_d –2.88 kHz) dB.
- 3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least 50 + 10 log (P) dB or 70 dB, whichever is the lesser attenuation.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31
ANRITSU CORP.MADE IN JAPAN	HP Filter(UHF band)	MP526 D	995245	2013-11-04	2014-11-03

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at $100 \, \text{kHz}$ for below $1 \, \text{GHz}$, and $1 \, \text{MHz}$ for above $1 \, \text{GHz}$. sufficient scans were taken to show any out of band emissions up to 10^{th} harmonic.

Test Data

Environmental Conditions

Temperature:	22 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Candy Li on 2014-03-16.

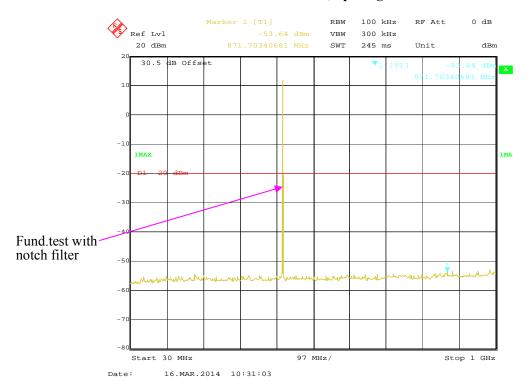
Test Mode: Transmitting

Please refer to the following plots.

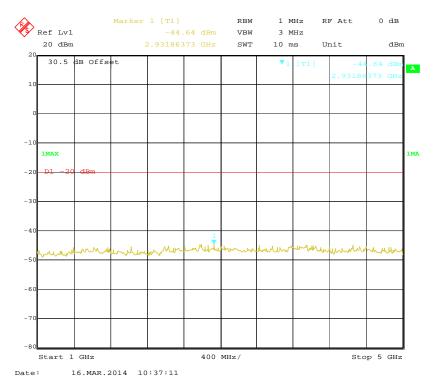
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Analog Modulation:

435.0125 MHz: 30 MHz - 1 GHz, Spacing Channel 12.5 kHz



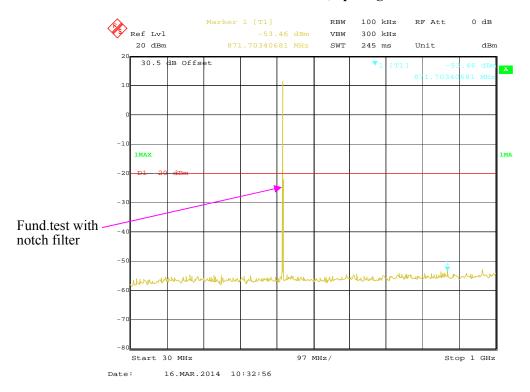
435.0125 MHz: 1 GHz - 5 GHz, Spacing Channel 12.5 kHz



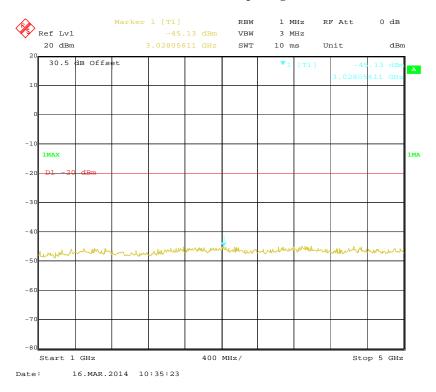
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Digital Modulation:

435.0125 MHz: 30 MHz - 1 GHz, Spacing Channel 12.5 kHz



435.0125 MHz: 1 GHz - 5 GHz, Spacing Channel 12.5 kHz



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FCC §2.1053 & §90.210 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §2.1053 and §90.210

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2013-09-25	2014-09-25
HP	Amplifier	8447E	1937A01046	2013-09-30	2014-09-30
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2013-11-12	2014-11-12
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
HP	Synthesized Sweeper	8341B	2624A00116	2013-05-09	2014-05-09
Mini-Circuits	Amplifier	ZVA-183-S+	5969001149	2013-04-03	2014-04-03
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR

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Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to teeth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 1g (TXpwr in Watts/0.001)-the absolute level

Spurious attenuation limit in dB = $50+10 \text{ Log}_{10}$ (power out in Watts) for EUT with a 12.5 kHz channel bandwidth.

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Candy Li on 2014-03-10.

Test Mode: Transmitting

30 MHz - 5 GHz:

	Receiver	Turn	Rx An	tenna		Substitut	ed	Absolute	FCC I	Part 90
Frequency (MHz)	Reading (dBµV)	Table Angle Degree	Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
		Analog l	Modulatio	n, 435.012	25 MHz, 0	Channel Sp	pacing 12.5	kHz		
870.0	44.10	320	1.5	Н	-52.7	0.70	0	-53.40	-20	33.40
870.0	50.42	122	1.3	V	-46.4	0.70	0	-47.10	-20	27.10
1305.0	38.74	172	1.8	Н	-59.7	0.84	8.50	-52.04	-20	32.04
1305.0	43.96	41	1.5	V	-55.6	0.84	8.50	-47.94	-20	27.94
		Digital I	Modulation	n, 435.012	25 MHz, C	Channel Sp	pacing 12.5	кHz		
870.0	40.65	152	1.6	Н	-56.2	0.70	0	-56.90	-20	36.90
870.0	48.27	306	1.8	V	-48.5	0.70	0	-49.20	-20	29.20
1305.0	40.55	43	1.6	Н	-57.9	0.84	8.50	-50.24	-20	30.24
1305.0	44.39	101	2.3	V	-55.2	0.84	8.50	-47.54	-20	27.54

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Notes

Absolute Level = SG Level - Cable loss + Antenna Gain Margin = Limit- Absolute Level

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FCC §2.1055 & §90.213 - FREQUENCY STABILITY

Applicable Standard

FCC §2.1055 and §90.213

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Hewlett-Packard	Frequency Counter	5343A	2232A00827	2013-05-09	2014-05-09
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2013-11-01	2014-11-01
Long Wei	DC Power Supply	TPR-6420D	398363	NCR	NCR

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Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.

Test Data

Environmental Conditions

Temperature:	23 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Candy Li on 2014-03-10.

Test Mode: Transmitting

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Reference Frequency: 435.0125 MHz, Limit: 2.5 ppm					
Test Envi	ronment	Frequency Measure with Time Elaps			
Temperature (°C)	Power Supplied (V _{DC})	Measured Frequency error (MHz)	Frequency Error (ppm)		
	Frequency Stability	y versus Input Temper	ature		
50	7.4	435.01234	-0.37		
40	7.4	435.01242	-0.18		
30	7.4	435.01240	-0.23		
20	7.4	435.01245	-0.11		
10	7.4	435.01241	-0.21		
0	7.4	435.01236	-0.32		
-10	7.4	435.01238	-0.28		
-20	7.4	435.01242	-0.18		
-30	7.4	435.01227	-0.53		
Frequency Stability versus Input Voltage					
20	6.2	435.01246	-0.09		

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FCC §90.214 - TRANSIENT FREQUENCY BEHAVIOR

Applicable Standard

Regulations: FCC §90.214

Test method: ANSI/TIA-603-D 2010, section 2.2.19.3

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31
Anritsu	Spectrum Analyzer	MS2721A	8512003602	2013-08-25	2014-08-24
HP Agilent	RF Communication Test Set	8920A	3325U00859	2013-05-07	2014-05-07
AEROFLEX	3920 Digital Radio Test Set	3920	299001927	2013-10-22	2014-10-21

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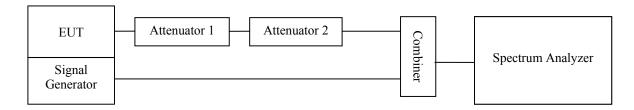
Test Procedure

- a) Connect the EUT and test equipment as shown on the following block diagram.
- b) Set the Spectrum Analyzer to measure FM deviation, and tune the RF frequency to the transmitter assigned frequency.
- c) Set the signal generator to the assigned transmitter frequency and modulate it with a 1 kHz tone at ± 12.5 kHz deviation and set its output level to -100dBm.
- d) Turn on the transmitter.
- e) Supply sufficient attenuation via the RF attenuator to provide an input level to the Spectrum Analyzer that is 40 dB below the maximum allowed input power when the transmitter is operating at its rated power level. Note this power level on the Spectrum Analyzer as P₀.
- f) Turn off the transmitter.
- g) Adjust the RF level of the signal generator to provide RF power equal to P₀. This signal generator RF level shall be maintained throughout the rest of the measurement.
- h) Remove the attenuation 1, so the input power to the Spectrum Analyzer is increased by 30 dB when the transmitter is turned on.
- i) Adjust the vertical amplitude control of the spectrum analyzer to display the 1000 Hz at ±4 divisions vertically centered on the display. Set trigger mode of the Spectrum Analyzer to "Video", and tune the "trigger level" on suitable level. Then set the "tiger offset" to -10ms for turn on and -15ms for turn off.
- j) Turn on the transmitter and the transient wave will be captured on the screen of Spectrum Analyzer. Observe the stored display. The instant when the 1 kHz test signal is completely suppressed is considered to be t_{on}. The trace should be maintained within the allowed divisions during the period t₁ and t₂.

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

k) Then turn off the transmitter, and another transient wave will be captured on the screen of Spectrum Analyzer. The trace should be maintained within the allowed divisions during the period t₃.



Test Data

Environmental Conditions

Temperature:	22 ℃	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Candy Li on 2014-03-16.

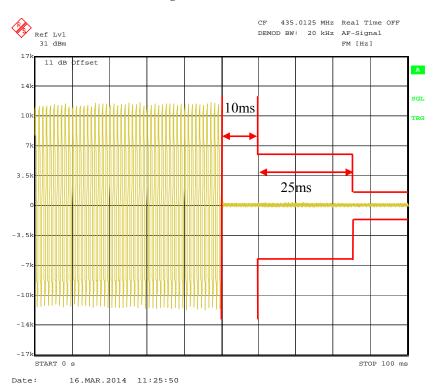
Test Mode: Transmitting

Channel Separation (kHz)	Transient Period (ms)	Maximum frequency difference (kHz)	Result
12.5	$<10(t_1)$	±12.5	Pass
	$<25(t_2)$	±6.25	
	$<10(t_3)$	±12.5	

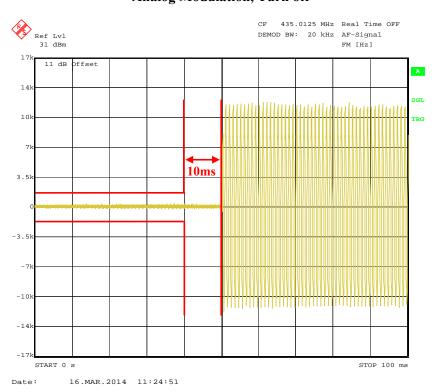
Please refer to the following plots.

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Analog Modulation, Turn on



Analog Modulation, Turn off



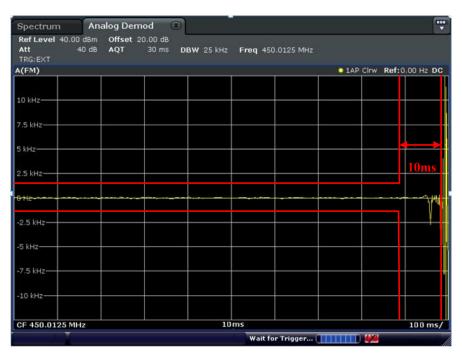
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Digital Modulation, Turn on

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Digital Modulation, Turn off



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

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