FCC PART 90

TEST REPORT

For

Hytera Communications Co., Ltd.

HYT Tower, Hi-Tech Industrial Park North, Nanshan District, Shenzhen, China

FCC ID: YAMPT580HF5

Report Type:	**Product Type:**
Class II Permissive Change	TETRA Portable Terminal

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Report Number:	RSZ140918010-00A1
Report Date:	2014-09-29
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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 *Hytera Communications Co., Ltd.*'s product, model number: *PT580H F5 (FCC ID: YAMPT580HF5)* or the "EUT" in this report was a *TETRA Portable Terminal,* which was measured approximately: 127.5 mm (L) x 54.5 mm (W) x 35.5 mm (H), rated with input voltage: DC 7.4V.

** All measurement and test data in this report was gathered from production sample serial number: 1409131 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2014-09-18.*

Objective

This test report is prepared on behalf of *Hytera Communications Co., Ltd.* in accordance with Part 2, and Part 90 of the Federal Communication Commission rules.

This is a CIIPC application of the device basing on the FCC ID: YAMPT580HF5 which was certified on 2012/04/27, the differences between the original device and the current one are as follows:

1. Changing the product name from "TETRA Digicom Portable Terminal" to "TETRA Portable Terminal";

2. The applicant request to extend the frequency band from 817~824 MHz/862~869 MHz to 806~824 MHz/851~869 MHz.

For the change made to the device, all the test items were performed.

Related Submittal(s)/Grant(s)

No related submittal.

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.

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.

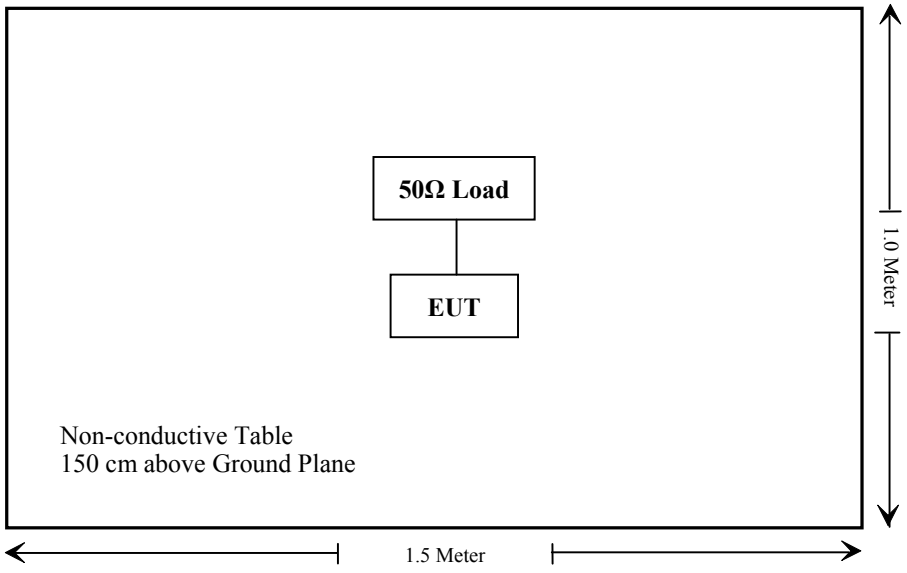
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Agolent	MXA Signal Analyzer	N9020A	ATO-97512SERMY50510262
AEROFLEX	TETRA Signal Analyzer	2310	2310011173

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§1.1307(b), §2.1093	RF Exposure	Compliance
§2.1046; §90.205	RF Output Power	Compliance
§90.210; §90.221	Adjacent Channel Power	Compliance
§2.1047;§90.207	Modulation Characteristic	Not Applicable*
§2.1049; §90.209; §90.210; §90.691	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	Not Applicable

Not applicable*: Modulation Characteristic test item is not required for digital device

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.

Result: Compliance.

Please refer to SAR Report Number: RSZ140918010-20A1.

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.

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	2014-05-31	2015-05-31

*** 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:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2014-09-28.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following table.

Frequency	Channel Spacing (kHz)	Conducted Output Power (dBm)	Conducted Output Power (W)
806.05	25	33.00	1.995
809.05		33.01	2.000
851.05		33.03	2.009
854.05		33.04	2.014

Note: The rated power is 1.8W. The limit is 1.44W-2.16W.

FCC §2.1046, §90.210& §90.221- ADJACENT CHANNEL POWER

Applicable Standard

FCC §2.1046, §90.210& §90.221

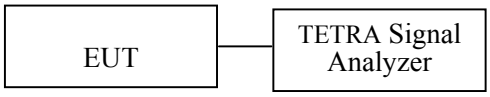
According to FCC§90.221 (c) (1), Maximum adjacent power levels for frequencies in the 809-824/854-869 MHz band:

Frequency offset	Maximum ACP (dBc) for devices less than 15 watts	Maximum ACP (dBc) for devices 15 watts and above
25 kHz	−55 dBc	−55 dBc
50 kHz	−65 dBc	−65 dBc
75 kHz	−65 dBc	−70 dBc

(2) In any case, no requirement in excess of −36 dBm shall apply

Test Procedure

The EUT was connected to the TETRA signal analyzer



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AEROFLEX	TETRA Signal Analyzer	2310	231001/173	2014-03-11	2015-03-11

*** 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:	25 ℃
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

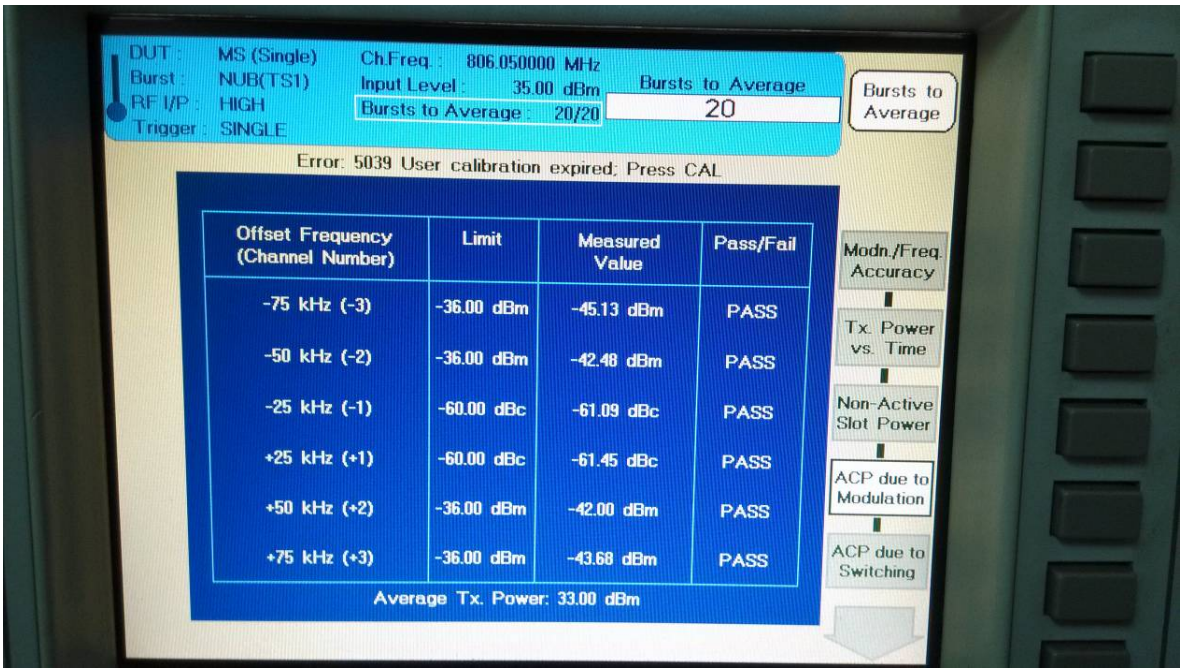
The testing was performed by Rocky Kang on 2014-09-28.

Test Mode: Transmitting

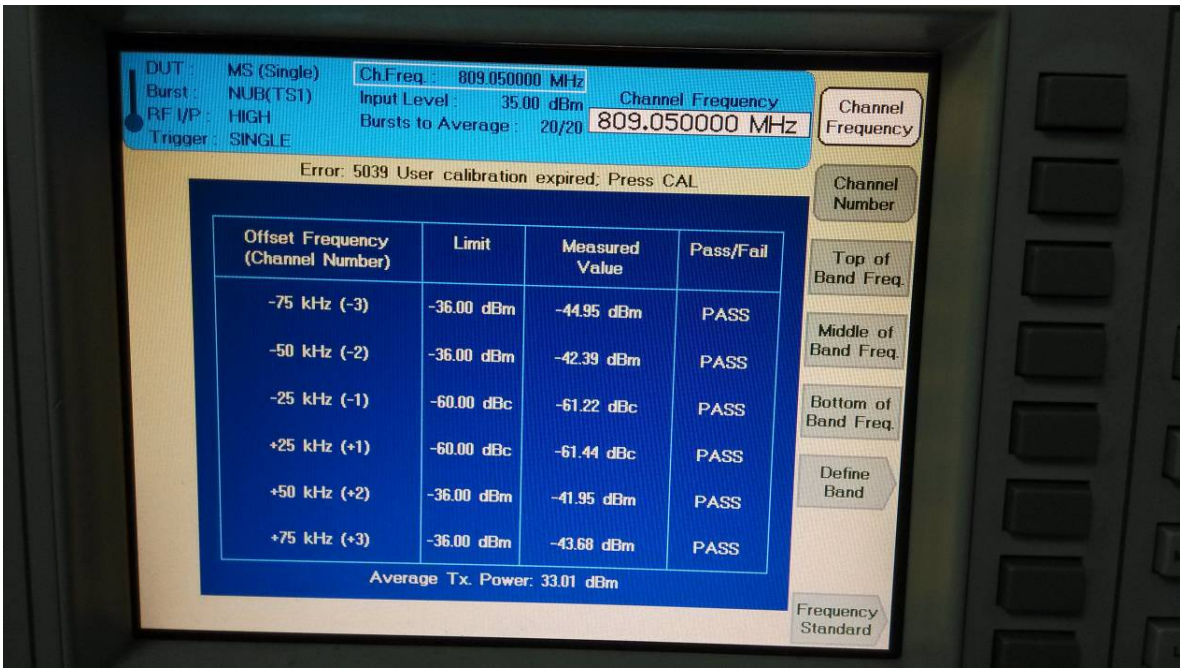
Test Result: Compliance. Please refer to following table and plots.

Channel Frequency (MHz)	Channel Separation (kHz)	Adjacent Channel (kHz)	Adjacent Channel Ratio (dB)	FCC Part 90 Limit (dB)
806.05	25	-75	-78.13	-70
		-50	-75.48	-65
		-25	-61.09	-55
		+25	-61.45	-55
		+50	-75.00	-65
		+75	-76.68	-70
809.05	25	-75	-77.96	-70
		-50	-75.40	-65
		-25	-61.22	-55
		+25	-61.44	-55
		+50	-74.96	-65
		+75	-76.68	-70
851.05	25	-75	-77.91	-70
		-50	-75.23	-65
		-25	-60.43	-55
		+25	-60.53	-55
		+50	-74.58	-65
		+75	-76.55	-70
854.05	25	-75	-77.84	-70
		-50	-75.06	-65
		-25	-60.44	-55
		+25	-60.42	-55
		+50	-74.59	-65
		+75	-76.50	-70

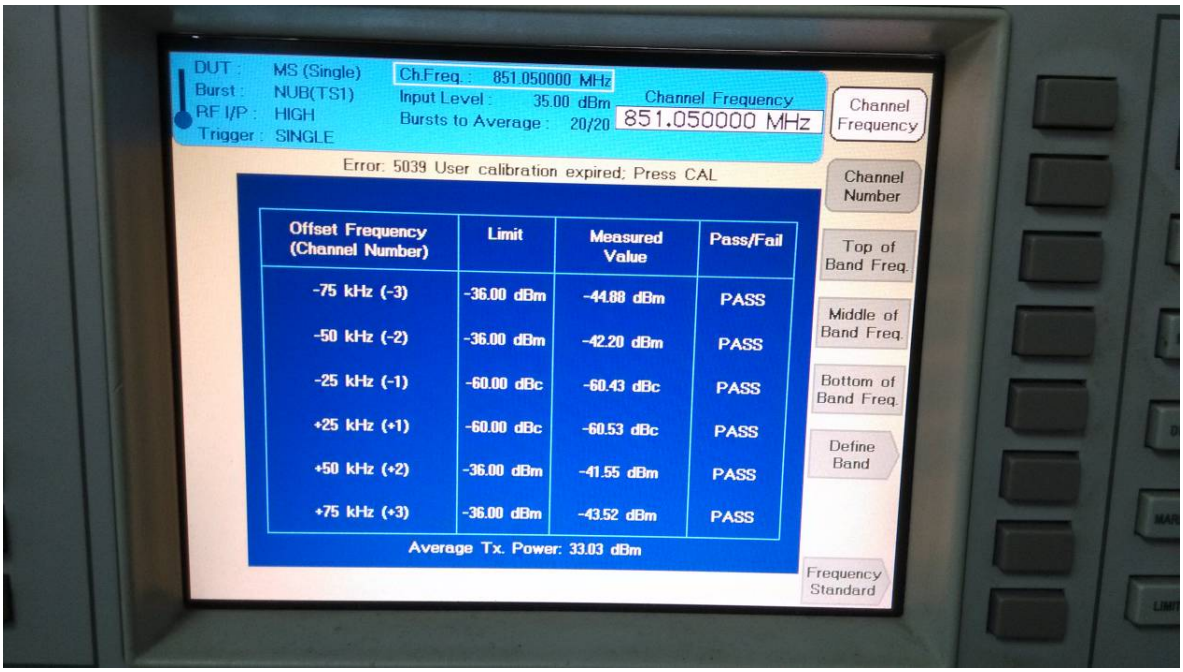
Adjacent Channel Power for Frequency 806.05 MHz



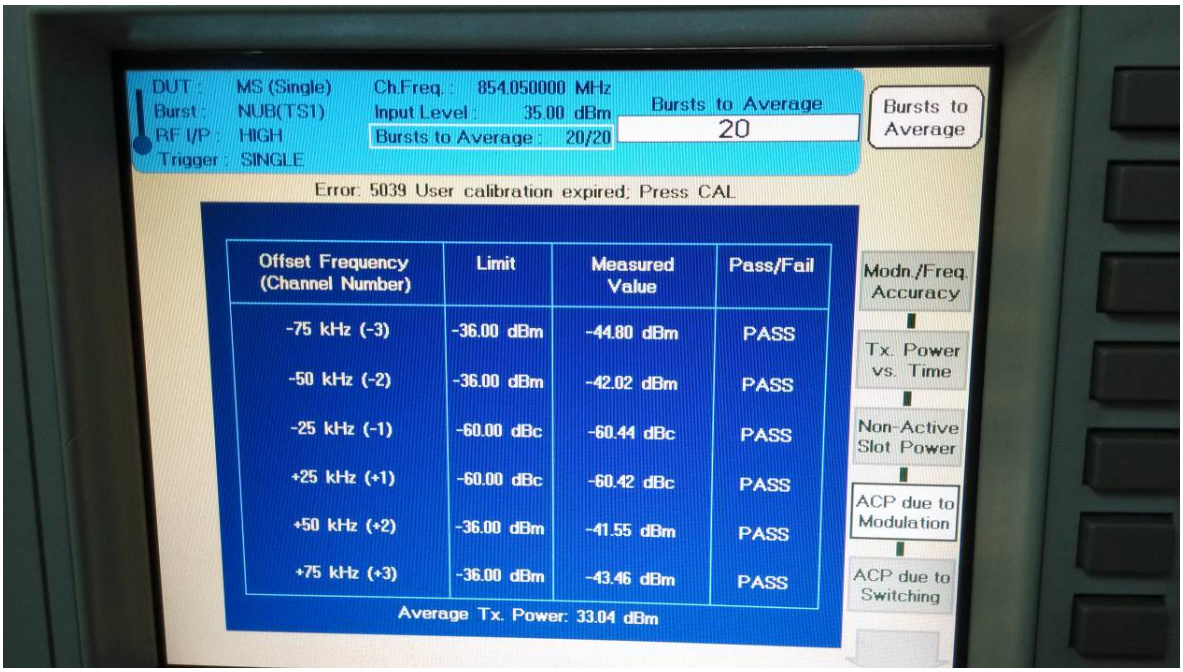
Adjacent Channel Power for Frequency 809.05 MHz



Adjacent Channel Power for Frequency 851.05 MHz



Adjacent Channel Power for Frequency 854.05 MHz



FCC §2.1049 & §90.209, §90.210§90.691 – OCCUPIED BANDWIDTH & EMISSION MASK

Applicable Standard

FCC §2.1049, §90.209, §90.210 and §90.691

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

Emission Mask I. For transmitters that are equipped with an audio low pass filter, the power of any emission must be attenuated below the unmodulated carrier power of the transmitter (P) as follows:

(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency of more than 6.8 kHz, but no more than 9.0 kHz: At least 25 dB;

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency of more than 9.0 kHz, but no more than 15 kHz: At least 35 dB;

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency of more than 15 kHz: At least 43 + 10 log (P) dB, or 70 dB, whichever is the lesser attenuation.

Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + $10Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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 100 Hz and the spectrum was recorded in the frequency band ±50 kHz from the carrier frequency.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Agilent	MAX Signal Analyzer	N9020A	AT0-97512SER MY50510262	2014-03-11	2015-03-11

*** 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

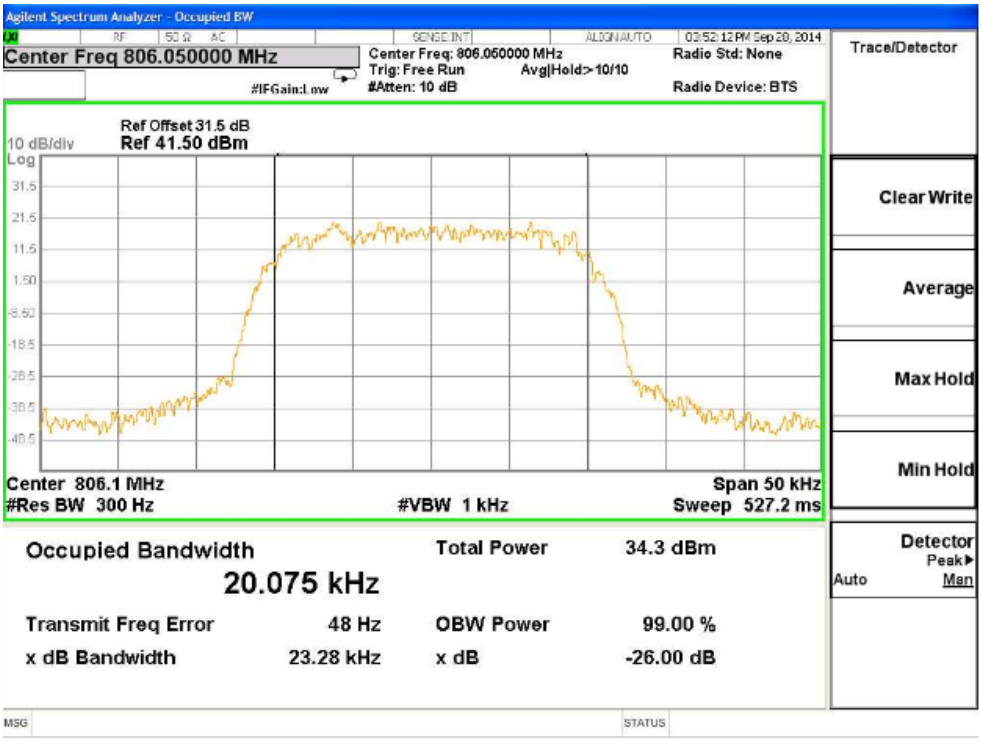
Temperature:	20 ~ 25 ℃
Relative Humidity:	50 ~ 56 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang from 2014-09-20 and 2014-09-28

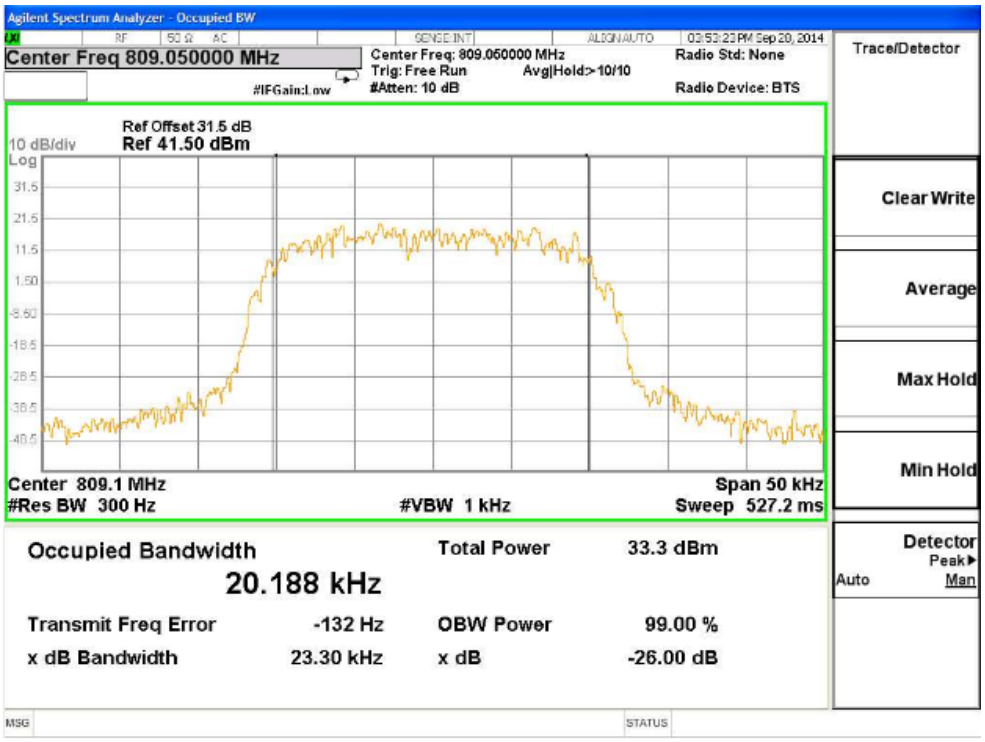
Frequency (MHz)	Channel Spacing (kHz)	99% Occupied Bandwidth (kHz)	Limited (kHz)
806.1	25.0	20.075	22
809.1	25.0	20.188	22
851.1	25.0	20.029	22
854.1	25.0	20.242	22

Note: Equipment meets the Adjacent Channel Power limits of §90.221, so emission mask is not tested.

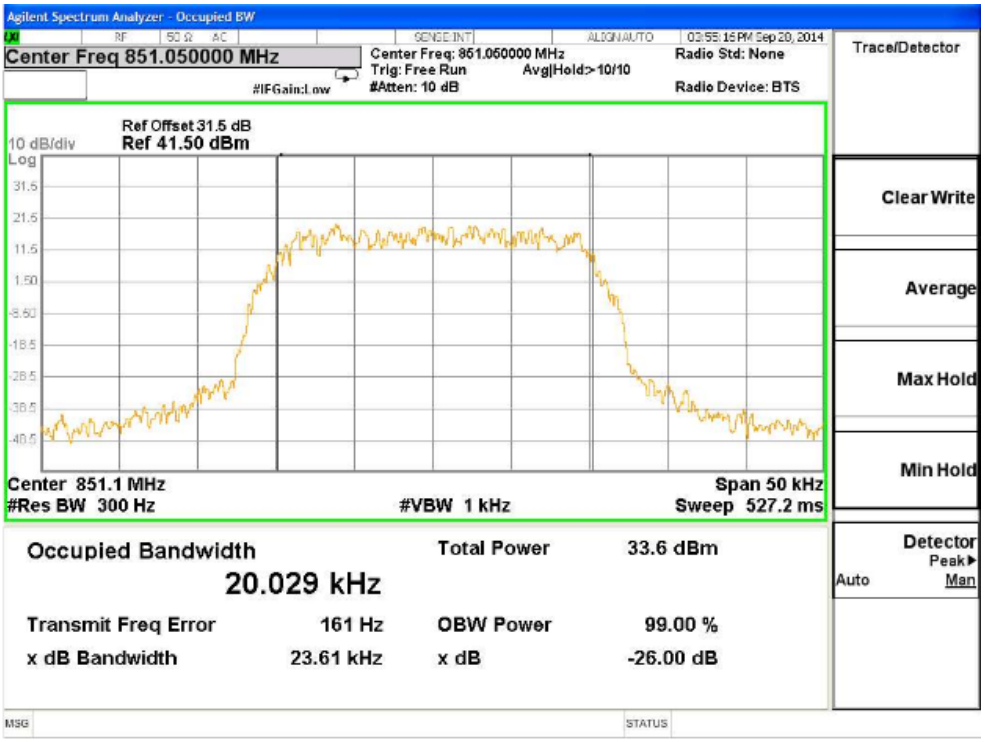
806.1 MHz: 99% Occupied Bandwidth



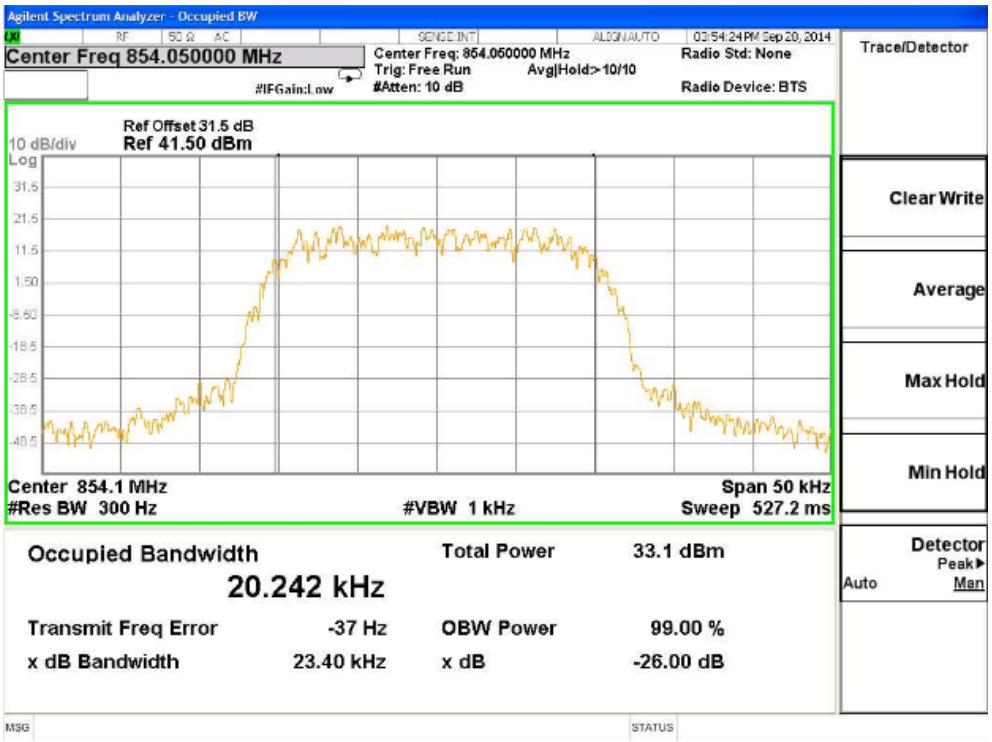
809.1 MHz: 99% Occupied Bandwidth



851.1 MHz: 99% Occupied Bandwidth



854.1 MHz: 99% Occupied Bandwidth



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

Applicable Standard

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:
(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

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 100kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Agilent	MAX Signal Analyzer	N9020A	AT0-97512SER MY50510262	2014-03-11	2015-03-11

*** 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

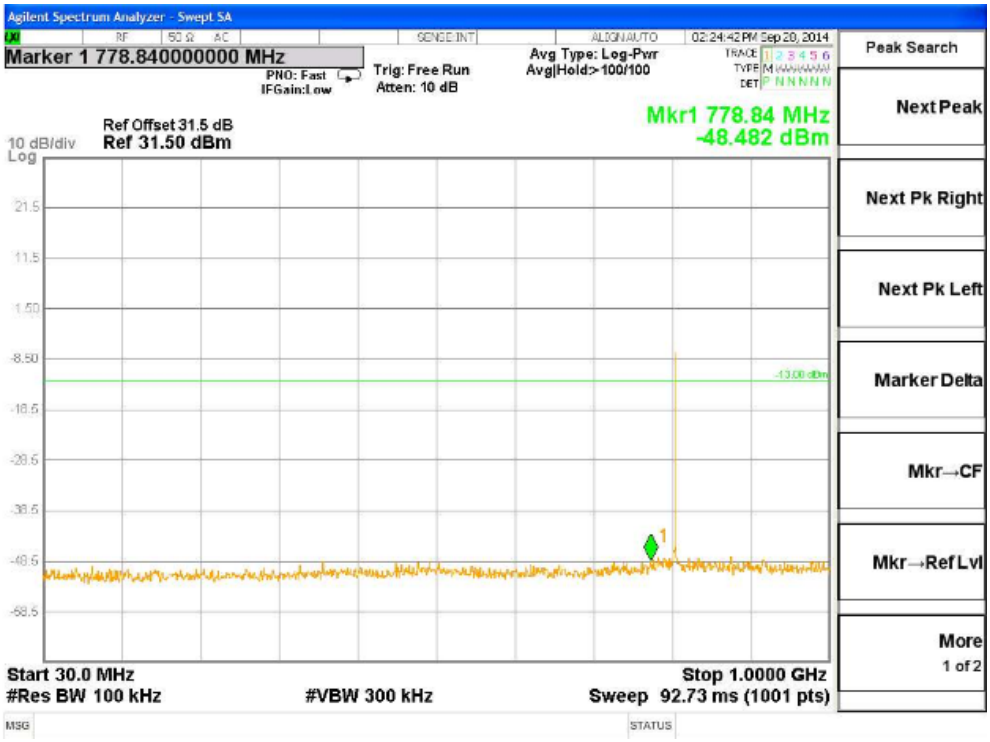
Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

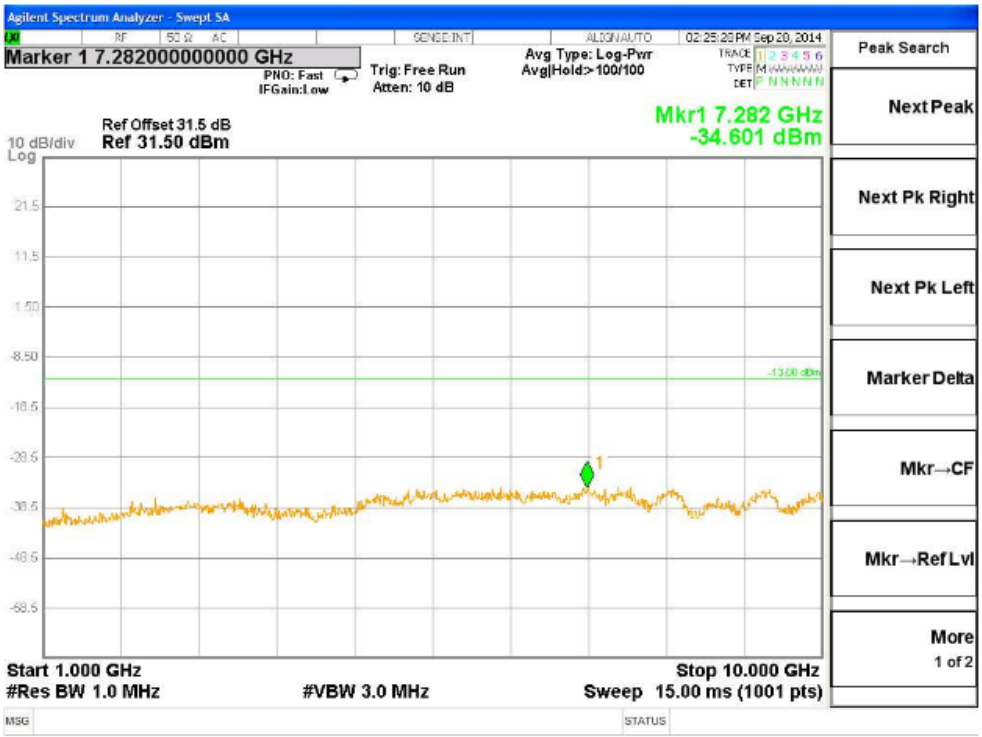
The testing was performed by Rocky Kang on 2014-09-20.

Test Mode: Transmitting

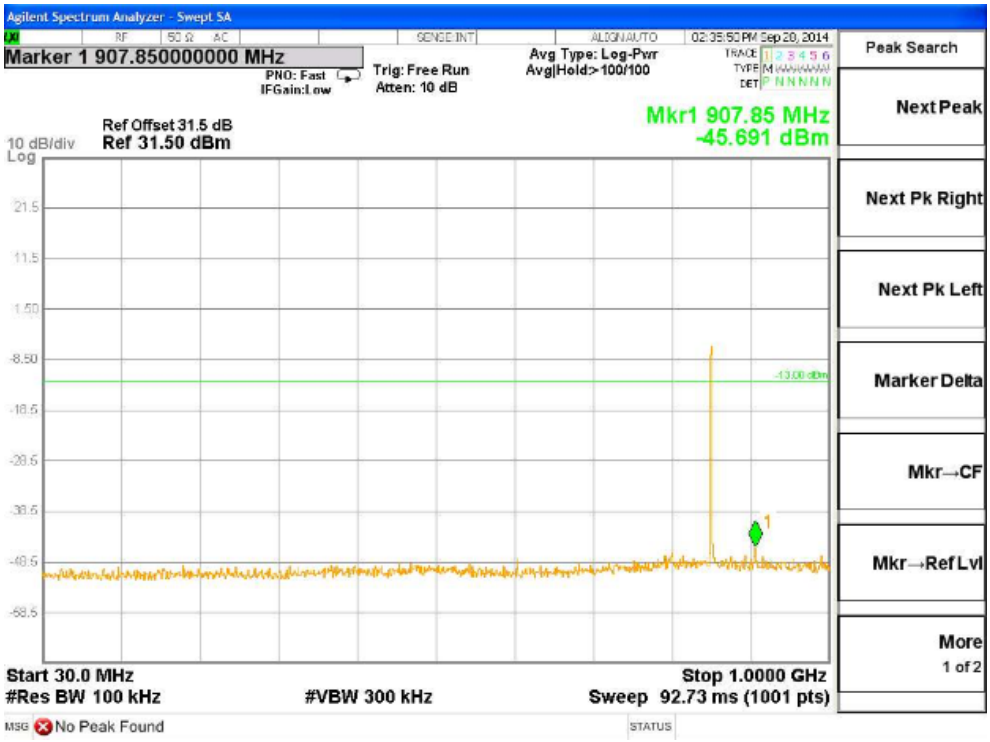
809.05 MHz: 30 MHz~1 GHz, Spacing Channel 25 kHz



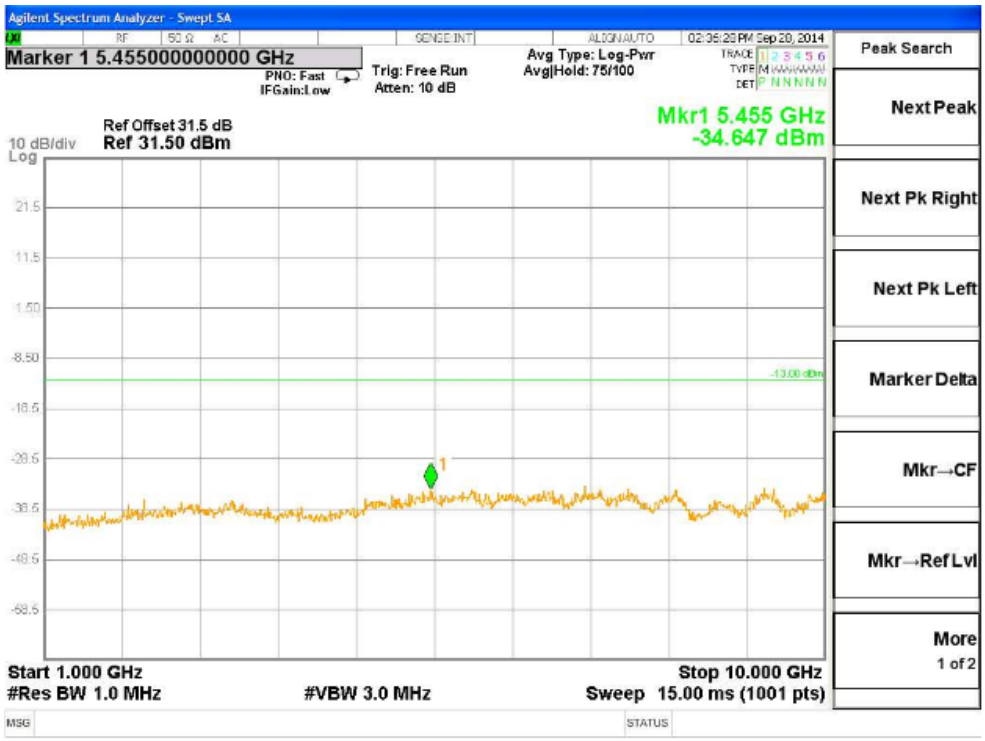
809.05 MHz: 1~10 GHz, Spacing Channel 25 kHz



854.05 MHz: 30 MHz~1 GHz, Spacing Channel 25 kHz



854.05 MHz: 1~10 GHz, Spacing Channel 25 kHz



FCC §2.1053 & §90.210 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §2.1053, §90.210

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 =43+10 Log_{10} (power out in Watts) for EUT with a 12.5 kHz channel bandwidth.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-05-31	2015-05-31
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2013-09-25	2014-09-25
HP	Amplifier	8447E	1937A01046	2014-05-06	2015-05-06
Mini	Amplifier	ZVA-183-S+	5969001149	2014-04-23	2015-04-23
HP	Signal Generator	8657A	3217A04699	2013-12-19	2014-12-18
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
HP	Synthesized Sweeper	8341B	2624A00116	2014-06-03	2015-06-03
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR

*** 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:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang on 2014-09-29.

Test Mode: Transmitting

30MHz - 10GHz:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 90	
			Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
809.05MHz, Channel Spacing 25 kHz										
321.3	35.12	115	1.5	H	-62.4	0.24	0.00	-62.64	-13	49.64
321.3	36.65	254	1.3	V	-60.9	0.24	0.00	-61.14	-13	48.14
1618.1	52.36	335	2.5	H	-51.2	0.95	9.40	-42.75	-13	29.75
1618.1	53.05	228	1.3	V	-49.0	0.95	9.40	-40.55	-13	27.55
854.05MHz, Channel Spacing 25 kHz										
321.3	34.53	125	1.5	H	-63.0	0.24	0.00	-63.24	-13	50.24
321.3	36.87	22	1.5	V	-60.6	0.24	0.00	-60.84	-13	47.84
1708.10	58.89	246	1.3	H	-44.1	0.97	9.40	-35.67	-13	22.67
1708.10	59.00	168	1.2	V	-41.5	0.97	9.40	-33.07	-13	20.07
2562.15	49.04	149	2.0	H	-49.5	1.47	10.80	-40.17	-13	27.17
2562.15	41.66	200	1.5	V	-52.6	1.47	10.80	-43.27	-13	30.27

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

FCC §2.1055 & §90.213- FREQUENCY STABILITY

Applicable Standard

FCC §2.1055, §90.213

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 Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Hewlett-Packard	Frequency Counter	5343A	2232A00827	2013-05-09	2016-05-08
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2013-11-01	2014-11-01

*** 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:	20 ~ 25 ℃
Relative Humidity:	48 ~ 56 %
ATM Pressure:	101.0 kPa

The testing was performed by Rocky Kang from 2014-09-22.

Test Mode: Transmitting

Reference Frequency: 806.05 MHz, Limit: 1.5 ppm, Channel Spacing: 25 kHz			
Test Environment		Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (V_{DC})	Measured Frequency error (Hz)	Frequency Error (ppm)
Frequency Stability versus Input Temperature			
50	7.4	2	0.002
40	7.4	5	0.006
30	7.4	3	0.004
20	7.4	7	0.009
10	7.4	1	0.001
0	7.4	5	0.006
-10	7.4	8	0.010
-20	7.4	11	0.014
-30	7.4	13	0.016
Frequency Stability versus Input Voltage			
20	6.3	6	0.007

Reference Frequency: 809.05 MHz, Limit: 2.5 ppm, Channel Spacing: 25 kHz			
Test Environment		Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (V_{DC})	Measured Frequency error (Hz)	Frequency Error (ppm)
Frequency Stability versus Input Temperature			
50	7.4	-2.3	-0.003
40	7.4	-4.5	-0.006
30	7.4	-6.1	-0.008
20	7.4	-5.2	-0.006
10	7.4	-3.3	-0.004
0	7.4	-5.0	-0.006
-10	7.4	-7.2	-0.009
-20	7.4	-9.5	-0.012
-30	7.4	-6.4	-0.008
Frequency Stability versus Input Voltage			
20	6.3	-11.2	-0.014

Reference Frequency: 851.05 MHz, Limit: 1.5 ppm, Channel Spacing: 25 kHz			
Test Environment		Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (V_{DC})	Measured Frequency error (Hz)	Frequency Error (ppm)
Frequency Stability versus Input Temperature			
50	7.4	2.7	0.003
40	7.4	2.4	0.003
30	7.4	2.5	0.003
20	7.4	2.2	0.003
10	7.4	2.6	0.003
0	7.4	2.0	0.002
-10	7.4	2.2	0.003
-20	7.4	2.9	0.003
-30	7.4	3.4	0.004
Frequency Stability versus Input Voltage			
20	6.3	3.2	0.004

Reference Frequency: 854.05 MHz, Limit: 2.5 ppm, Channel Spacing: 25 kHz			
Test Environment		Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (V_{DC})	Measured Frequency error (Hz)	Frequency Error (ppm)
Frequency Stability versus Input Temperature			
50	7.4	-7.7	-0.009
40	7.4	-7.6	-0.009
30	7.4	-7.5	-0.009
20	7.4	-7.8	-0.009
10	7.4	-7.6	-0.009
0	7.4	-7.0	-0.008
-10	7.4	-7.3	-0.009
-20	7.4	-7.7	-0.009
-30	7.4	-8.5	-0.010
Frequency Stability versus Input Voltage			
20	6.3	-9.3	-0.011

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