

## FCC PART 90

## TEST REPORT

For

### Hytera Communications Co., Ltd.

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

**FCC ID: YAMPD37XUF**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Digital Portable Radio
<b>Test Engineer:</b> Mike Hu	<i>Mike Hu</i>
<b>Report Number:</b> RSZ141231010-00A	
<b>Report Date:</b> 2015-01-26	
<b>Reviewed By:</b> Jimmy Xiao RF Engineer	<i>Jimmy Xiao</i>
<b>Prepared By:</b> Bay Area Compliance Laboratories Corp. (Shenzhen) 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 <a href="http://www.baclcorp.com.cn">www.baclcorp.com.cn</a>	

**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

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### Product Description for Equipment under Test (EUT)

The *Hytera Communications Co.,Ltd.*'s product, model number: *PD370 Uf*(FCC ID: *YAMPD37XUF*) or the "EUT" in this report was a *Digital Portable Radio*, which was measured approximately: 140 mm (L) x 55 mm (W) x 74 mm (H), rated with input voltage: DC 4.2V battery or DC 5.0V from adapter.

#### Adapter Information:

Model: HKA00605010-2B

Input: 100~240V, 50~60Hz, 0.2A

Output: 5.0V, 1.0A

*Note: This series products model: PD372 Uf, PD375 Uf, PD376 Uf, PD378 Uf and PD370 Uf are identical schematics, the difference among them is just the model number due to marketing purpose, and model PD370 Uf was selected for fully testing, the detailed information can be referred to the attached declaration letter that stated and guaranteed by the applicant.*

*\* All measurement and test data in this report was gathered from production sample serial number: 1412329 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2014-12-31.*

### 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 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.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

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

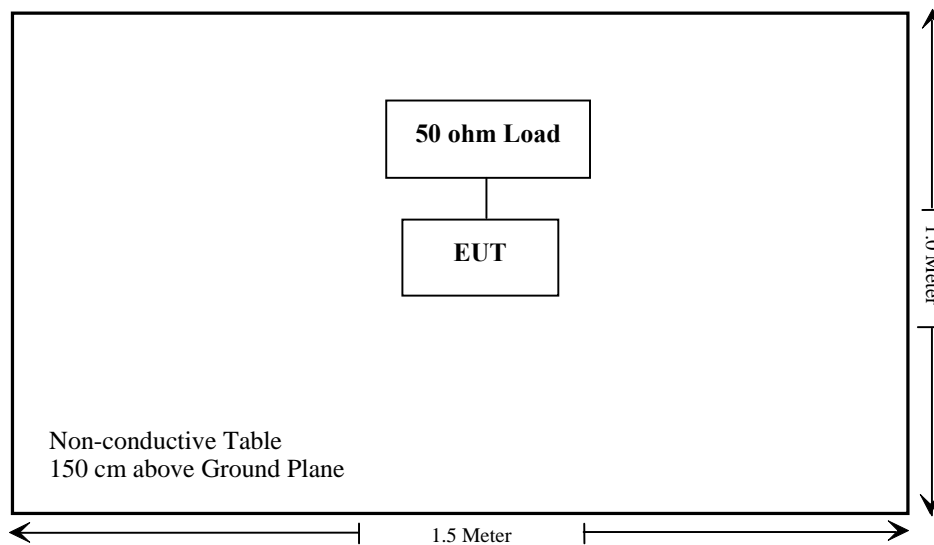
### Equipment Modifications

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

### Block Diagram of Test Setup



**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**

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### **Applicable Standard**

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

**Result:** Compliance.

Please refer to SAR Report Number: RSZ141231010-20C.



## 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	2014-08-22	2015-08-22
HP Agilent	RF Communication test set	8920A	3325U00859	2014-06-03	2015-06-03

\* **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 Data

#### Environmental Conditions

Temperature:	21 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

*The testing was performed by Mike Hu on 2015-01-17.*

*Test Mode: Transmitting*

**Test Result:** Compliance. Please refer to following table.

Frequency	Modulation	Channel spacing (kHz)	Power Level	Output Power (dBm)	Output Power (W)
430.0125	Analog	12.5	High	34.73	2.97
			Low	32.21	1.66
450.0125			High	34.71	2.96
			Low	32.38	1.73
479.9875			High	34.54	2.84
			Low	32.11	1.63
430.0125	Digital	12.5	High	34.70	2.95
			Low	32.24	1.67
450.0125			High	34.75	2.99
			Low	32.35	1.72
479.9875			High	34.32	2.70
			Low	32.12	1.63

**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.
- (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	RF Communication Test Set	8920A	3438A05201	2014-06-14	2015-06-13
LEADER	MILLIVOLTMETER	LMV-181A	6041126	2014-06-09	2015-06-09

\* **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**

<b>Temperature:</b>	21 °C
<b>Relative Humidity:</b>	50 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Mike Hu on 2015-01-17*

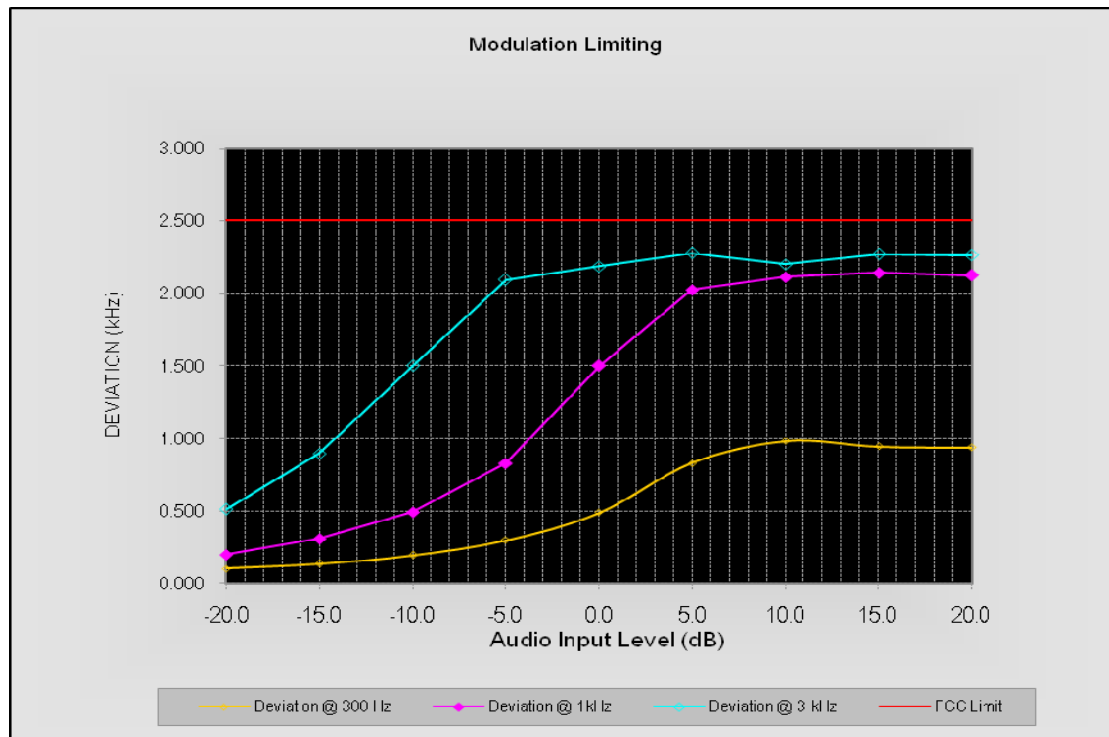
*Test Mode: Transmitting*

**Result:** Compliance.

**Analog Modulation:****MODULATION LIMITING**

Carrier Frequency: 450.0125 MHz, Channel Separation=12.5 kHz

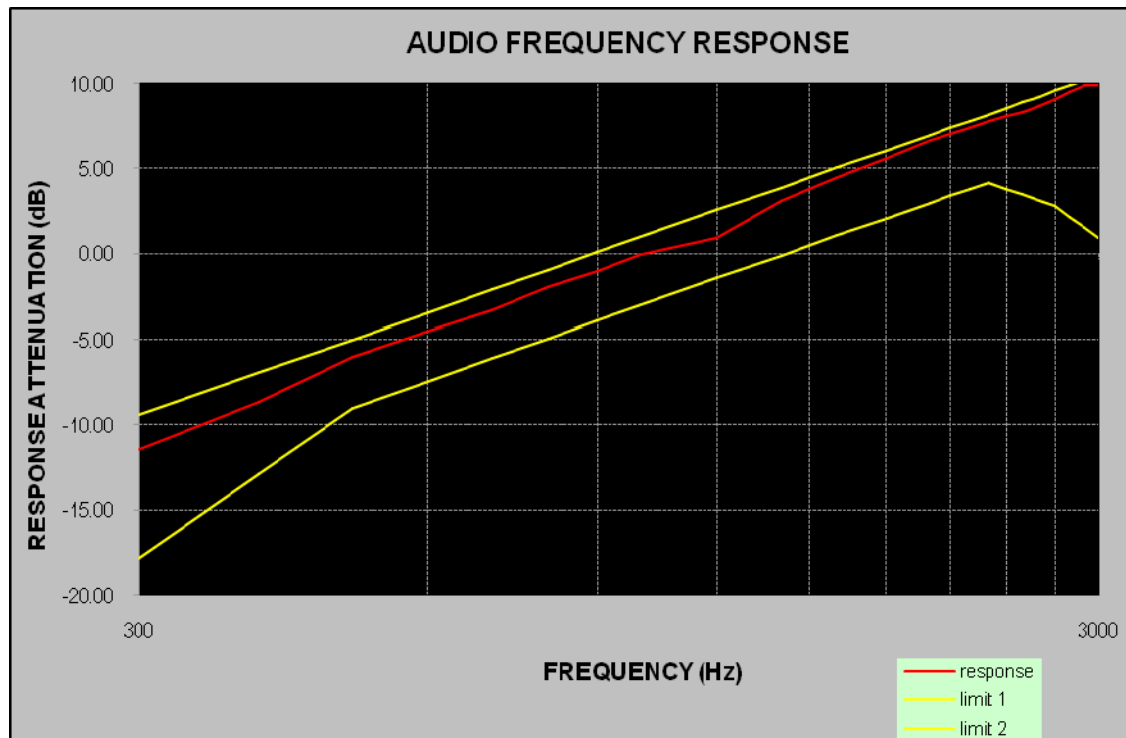
Audio Input Level [dB]	Frequency Deviation (kHz)			Limit [kHz]
	@ 300 Hz	@ 1kHz	@ 3 kHz	
20.0	0.939	2.124	2.262	2.5
15.0	0.946	2.141	2.272	2.5
10.0	0.982	2.115	2.202	2.5
5.0	0.831	2.024	2.277	2.5
0.0	0.491	1.500	2.185	2.5
-5.0	0.301	0.831	2.096	2.5
-10.0	0.196	0.494	1.501	2.5
-15.0	0.137	0.310	0.895	2.5
-20.0	0.106	0.201	0.511	2.5



**Audio Frequency Response**

Carrier Frequency: 450.0125 MHz, Channel Separation=12.5 kHz

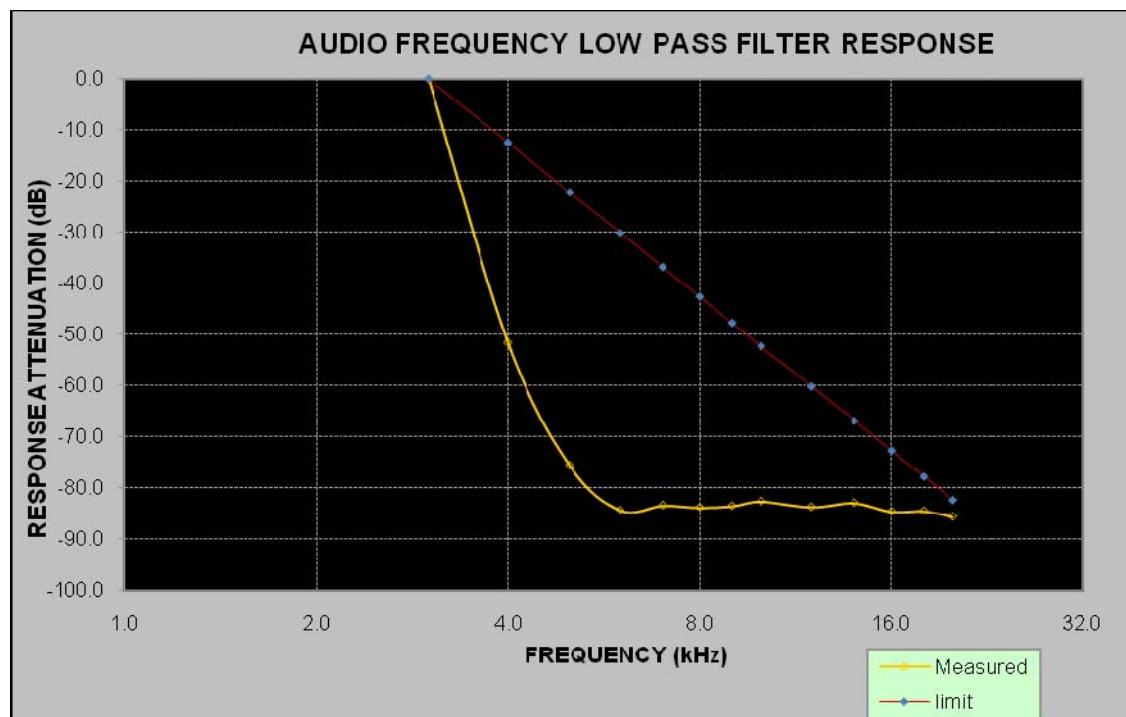
Audio Frequency (Hz)	Response Attenuation (dB)
300	-11.44
400	-8.64
500	-6.02
600	-4.52
700	-3.30
800	-1.94
900	-1.01
1000	0.00
1200	0.91
1400	3.17
1600	4.45
1800	5.64
2000	6.64
2100	7.04
2200	7.44
2300	7.78
2400	8.10
2500	8.35
2600	8.69
2700	9.10
2800	9.54
2900	9.94
3000	9.88



**AUDIO FREQUENCY LOW PASS FILTER RESPONSE**

Carrier Frequency: 450.0125 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	0.0	0.0
4.0	-51.6	-12.5
5.0	-75.6	-22.2
6.0	-84.3	-30.1
7.0	-83.4	-36.8
8.0	-83.8	-42.6
9.0	-83.5	-47.7
10.0	-82.6	-52.3
12.0	-83.7	-60.2
14.0	-82.9	-66.9
16.0	-84.6	-72.7
18.0	-84.5	-77.8
20.0	-85.6	-82.4



## 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:

- 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	EMI Test Receiver	ESR	1316.3003K0 3-101746-zn	2014-06-13	2015-06-13
HP	RF Communication Test Set	8920A	3438A05201	2014-06-14	2015-06-13

\* **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

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  $\pm 50$  kHz from the carrier frequency.



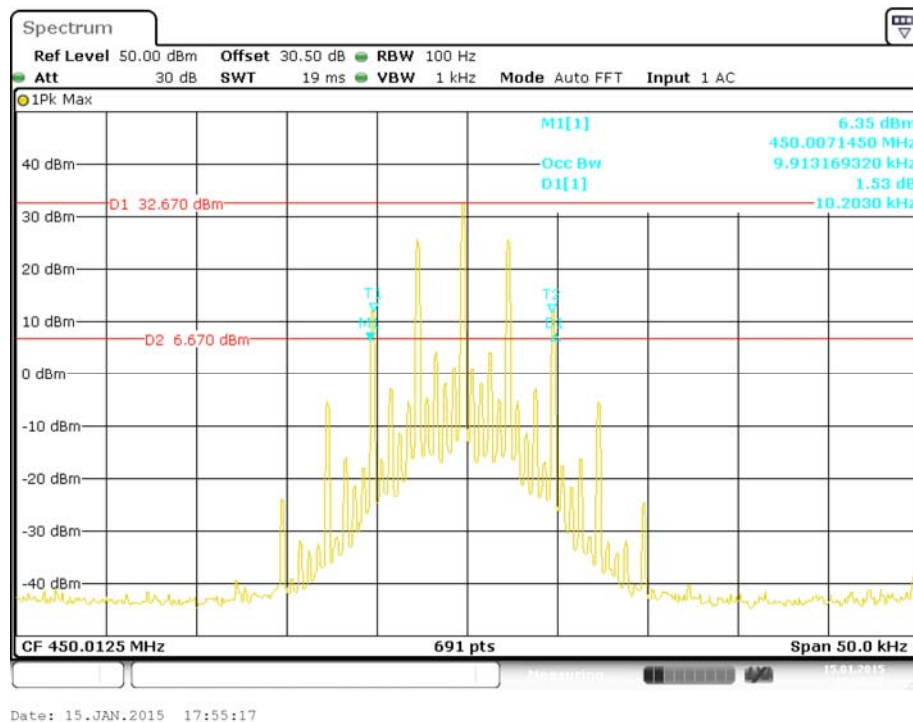
**Test Data****Environmental Conditions**

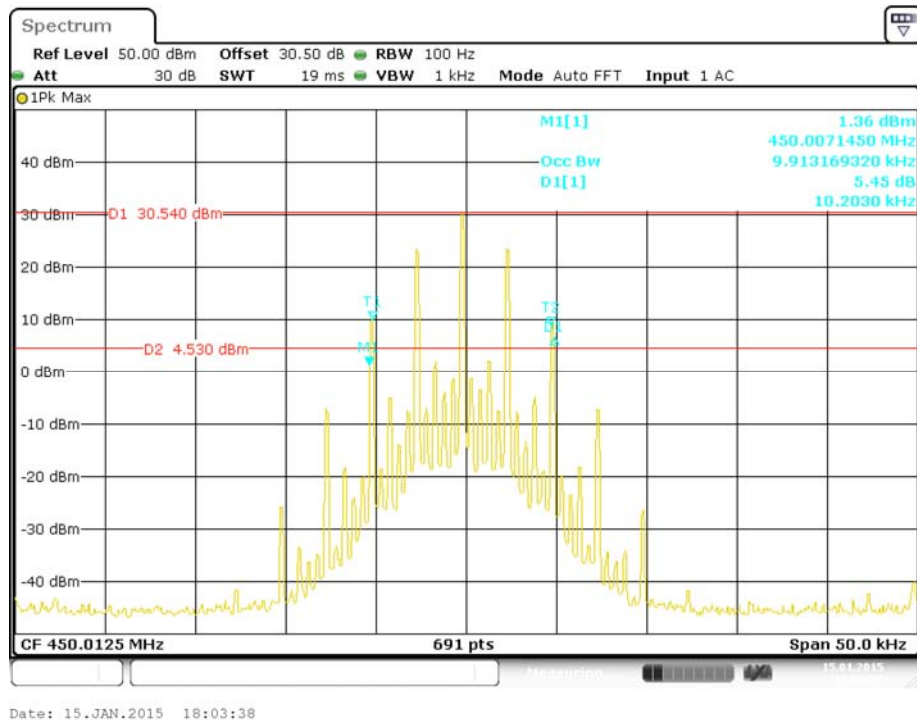
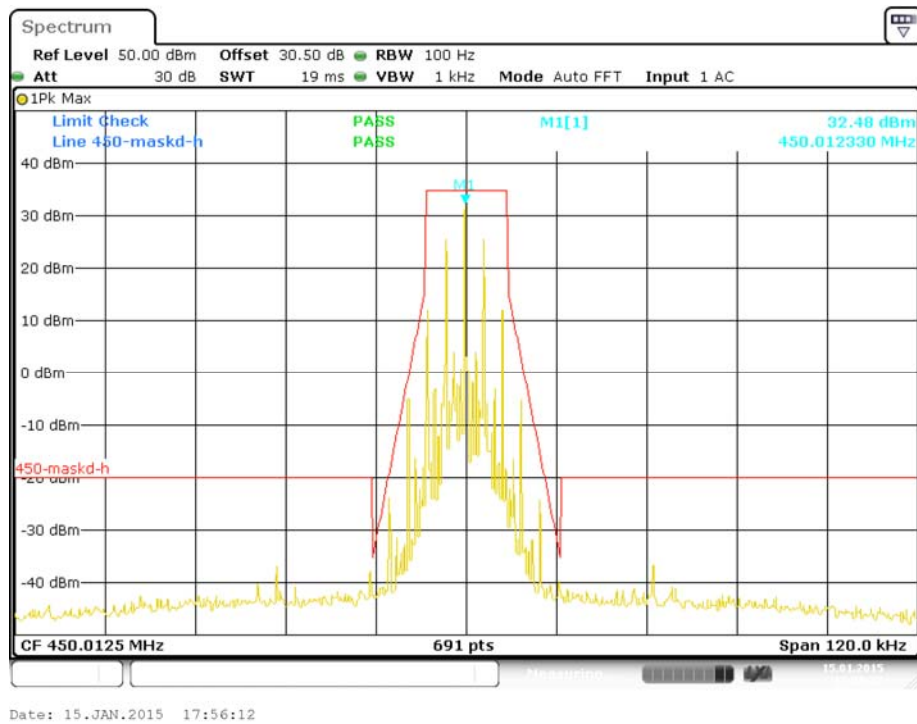
<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	53 %
<b>ATM Pressure:</b>	101.0 kPa

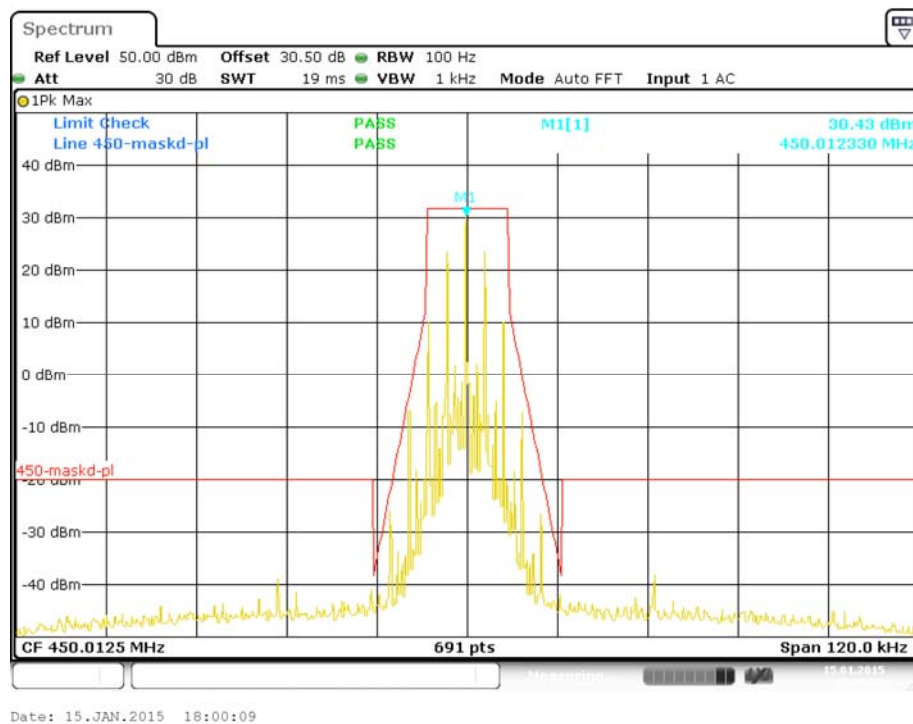
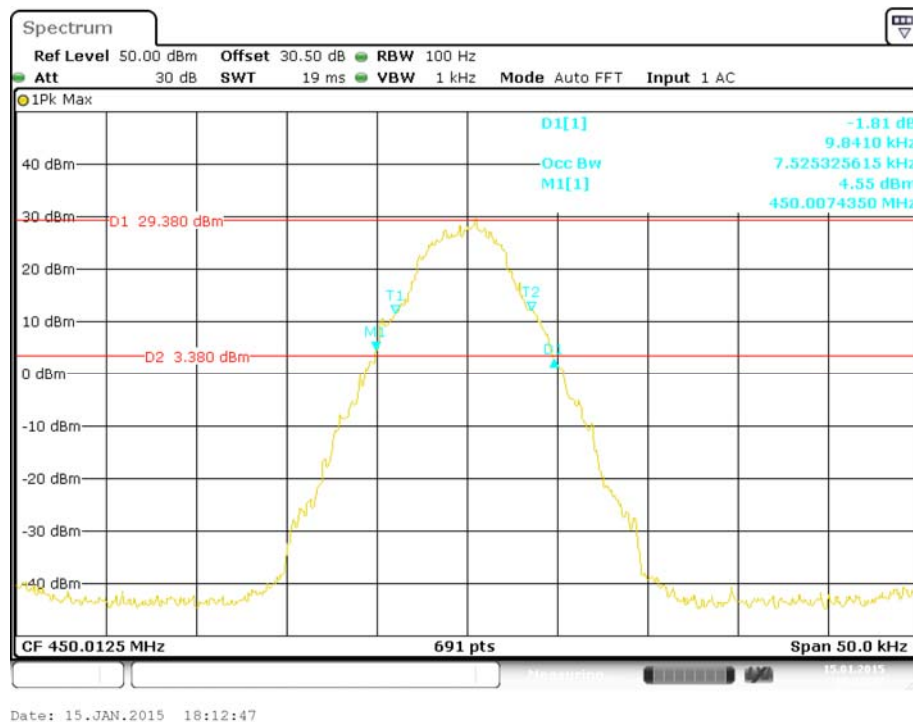
The testing was performed by Mike Hu on 2015-01-15

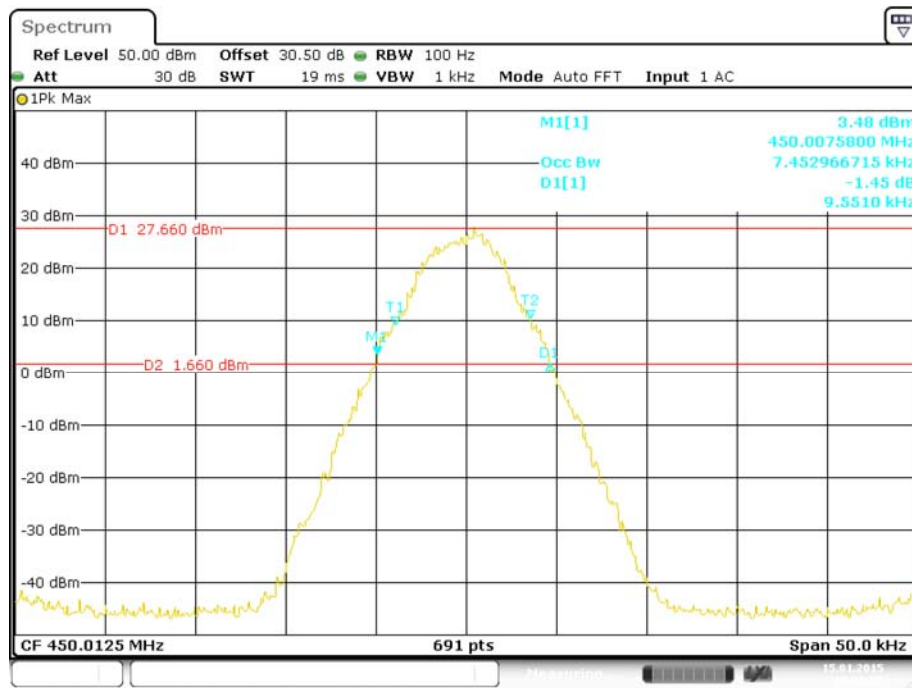
Test Mode: Transmitting

Modulation	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emissions Bandwidth (kHz)
Analog	450.0125	9.91	10.20
	450.0125	9.91	10.20
Digital	450.0125	7.53	9.84
	450.0125	7.45	9.55

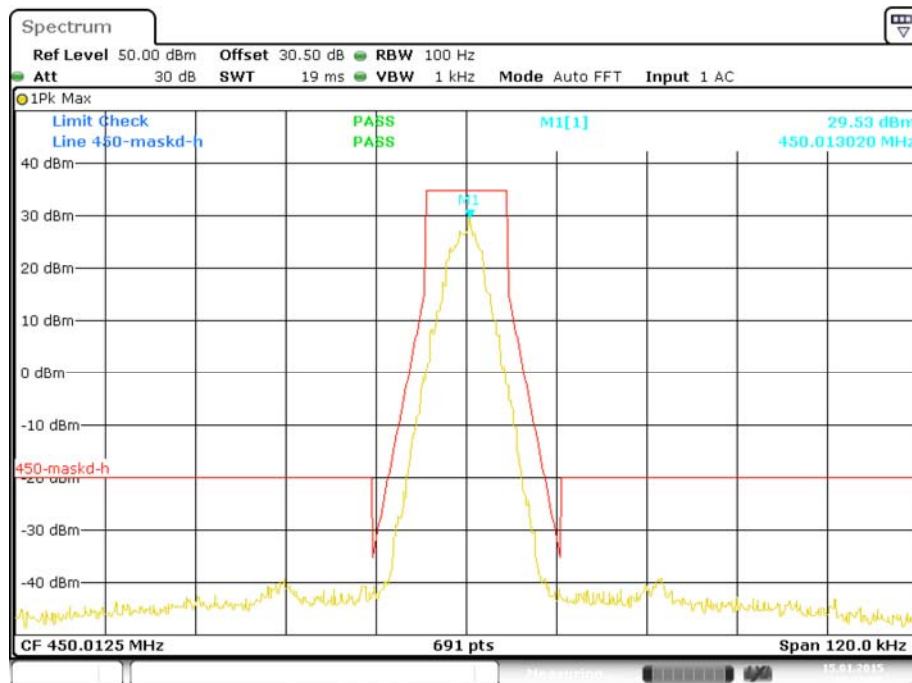
**Analog Modulation (Channel Spacing 12.5 kHz):****450.0125 MHz, 99% Occupied & 26 dB Bandwidth with High Power**

**450.0125 MHz, 99% Occupied & 26 dB Bandwidth with Low Power****450.0125 MHz, Emission Mask with High Power**

**450.0125 MHz, Emission Mask with Low Power****Digital Modulation:****450.0125 MHz, 99% Occupied & 26 dB Bandwidth with High Power**

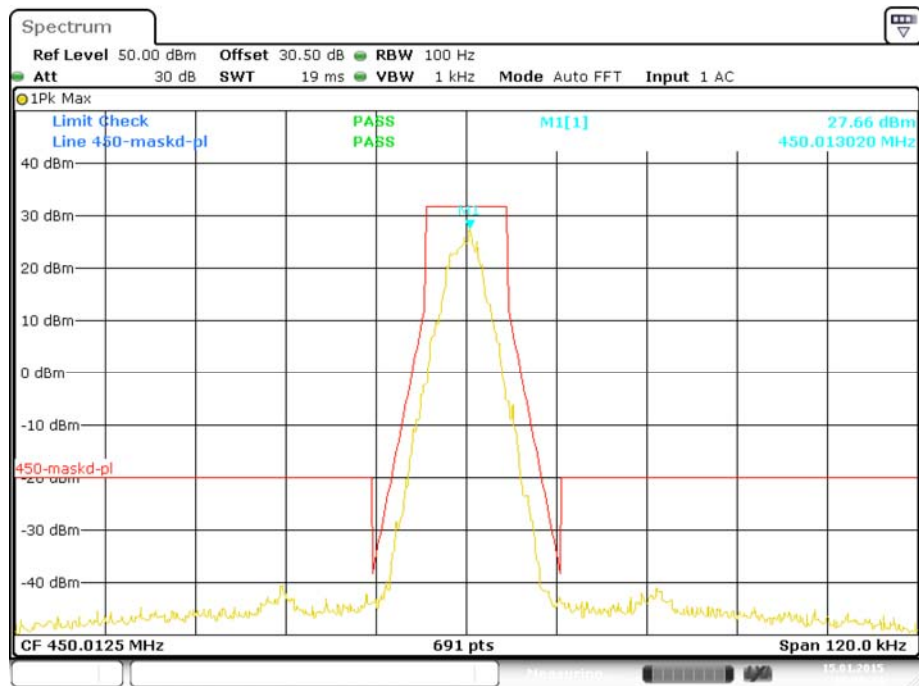
**450.0125 MHz, 99% Occupied & 26 dB Bandwidth with Low Power**

Date: 15.JAN.2015 18:08:56

**450.0125 MHz, Emission Mask with High Power**

Date: 15.JAN.2015 18:11:05

## 450.0125 MHz, Emission Mask with Low Power



Date: 15.JAN.2015 18:09:44

## 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  $7.27 (f_d - 2.88 \text{ kHz})$  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	2014-08-22	2015-08-22
ANRITSU CORP.MADE IN JAPAN	HP Filter(UHF band)	MP526 D	995245	2013-11-24	2014-11-23

\* **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 kHz for below 1GHz, and 1MHz for above 1GHz. sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.

### Test Data

#### Environmental Conditions

Temperature:	26 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

*The testing was performed by Mike Hu on 2015-01-21*

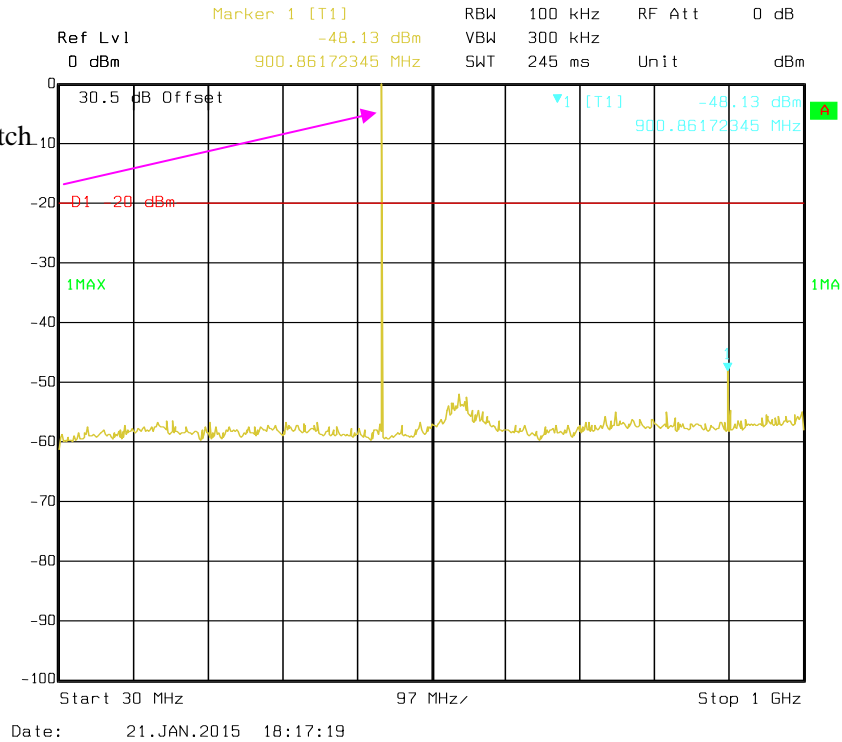
*Test Mode: Transmitting*

Please refer to the following plots.

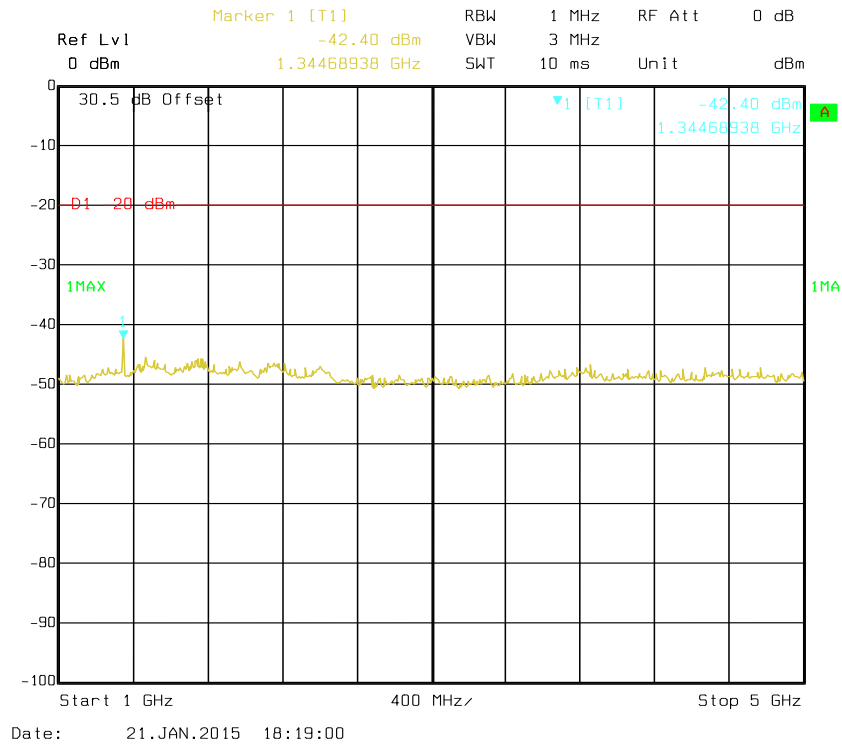
**Analog Modulation:**

**30 MHz – 1 GHz, Spacing Channel 12.5 kHz**

Fund.test with notch filter



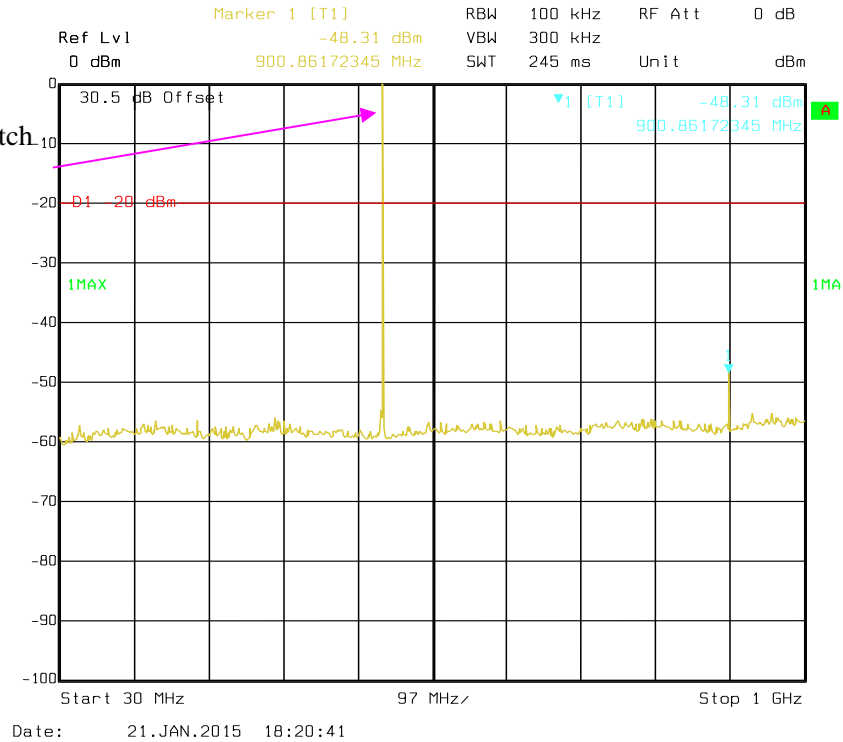
**1 GHz – 5 GHz, Spacing Channel 12.5 kHz**



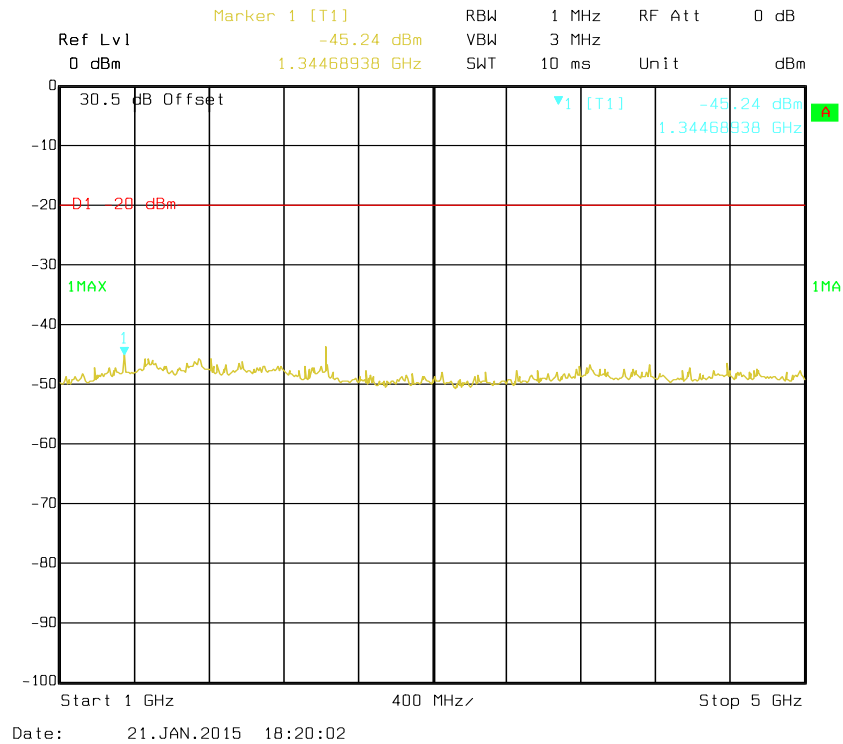
**Digital Modulation:**

**30 MHz – 1 GHz, Spacing Channel 12.5 kHz**

Fund.test with notch filter



**1 GHz – 5 GHz, Spacing Channel 12.5 kHz**





## 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	101120	2014-11-03	2015-11-03
HP	Amplifier	8447E	1937A01046	2014-05-06	2015-05-06
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-06-18	2017-06-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
Sunol Sciences	Horn Antenna	DRH-118	A052304	2014-12-01	2015-11-30
HP	Synthesized Sweeper	8341B	2624A00116	2014-06-03	2015-06-03
Mini-Circuits	Amplifier	ZVA-183-S+	5969001149	2014-04-23	2015-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
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 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 lg (TXpwr in Watts/0.001)-the absolute level

Spurious attenuation limit in dB = 50 + 10 Log<sub>10</sub> (power out in Watts) for EUT with a 12.5 kHz channel bandwidth.

**Test Data****Environmental Conditions**

<b>Temperature:</b>	24 °C
<b>Relative Humidity:</b>	51 %
<b>ATM Pressure:</b>	101.0 kPa

The testing was performed by Mike Hu on 2015-01-13.

Test Mode: Transmitting

**30 MHz – 5 GHz:**

Frequency (MHz)	Receiver Reading (dBμV)	Turn Table 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)
Analog Modulation 450.0125 MHz, Channel Spacing 12.5 kHz										
900.0	55.64	213	1.5	H	-41.4	0.70	0	-42.10	-20	22.10
900.0	57.13	35	1.8	V	-39.9	0.70	0	-40.60	-20	20.60
1350.0	47.29	203	1.3	H	-53.3	0.88	9.00	-45.18	-20	25.18
1350.0	55.29	218	1.2	V	-46.2	0.88	9.00	-38.08	-20	18.08
Digital Modulation 450.0125 MHz, Channel Spacing 12.5 kHz										
900.0	58.45	155	1.2	H	-38.5	0.70	0	-39.20	-20	19.20
900.0	59.31	111	2.1	V	-37.7	0.70	0	-38.40	-20	18.40
1350.0	43.54	326	1.7	H	-57.1	0.88	9.00	-48.98	-20	28.98
1350.0	52.42	123	2.2	V	-49.1	0.88	9.00	-40.98	-20	20.98

**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 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	2016-05-08
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2014-11-01	2015-11-01
Long Wei	DC Power Supply	TPR-6420D	398363	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 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:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

*The testing was performed by Mike Hu on 2015-01-20..*

*Test Mode: Transmitting*

**For Analog Modulation**

Reference Frequency: 450.0125 MHz, Limit: $\pm 5$ ppm, 12.5 kHz			
Test Environment		Frequency Measure with Time Elapsed	
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Measured Frequency (MHz)	Frequency Error (ppm)
Frequency Stability versus Input Temperature			
50	4.2	450.012227	-0.61
40	4.2	450.012211	-0.64
30	4.2	450.012213	-0.64
20	4.2	450.012218	-0.63
10	4.2	450.012213	-0.64
0	4.2	450.012230	-0.60
-10	4.2	450.012224	-0.61
-20	4.2	450.012217	-0.63
-30	4.2	450.012215	-0.63
Frequency Stability versus Input Voltage			
20	3.7	450.012226	-0.61

**For Digital Modulation**

Reference Frequency: 450.0125 MHz, Limit: $\pm 5$ ppm, 12.5 kHz			
Test Environment		Frequency Measure with Time Elapsed	
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Measured Frequency (MHz)	Frequency Error (ppm)
Frequency Stability versus Input Temperature			
50	4.2	450.012229	-0.60
40	4.2	450.012217	-0.63
30	4.2	450.012223	-0.62
20	4.2	450.012215	-0.63
10	4.2	450.012224	-0.61
0	4.2	450.012218	-0.63
-10	4.2	450.012220	-0.62
-20	4.2	450.012224	-0.61
-30	4.2	450.012230	-0.60
Frequency Stability versus Input Voltage			
20	3.7	450.012217	-0.63

## 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

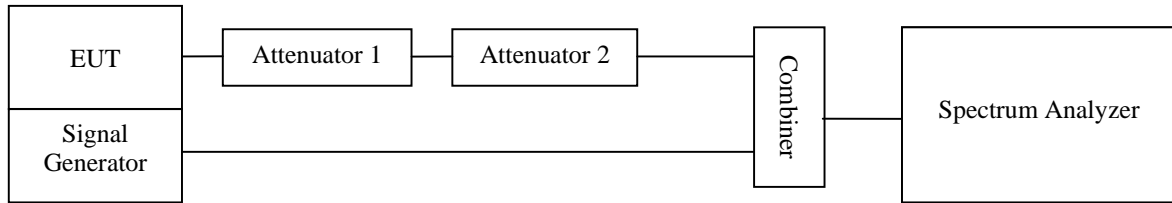
Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
Rohde & Schwarz	Spectrum Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
HP	RF Communication Test Set	8920A	3438A05201	2014-06-14	2015-06-13

\* **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

- Connect the EUT and test equipment as shown on the following block diagram.
- Set the Spectrum Analyzer to measure FM deviation, and tune the RF frequency to the transmitter assigned frequency.
- Set the signal generator to the assigned transmitter frequency and modulate it with a 1 kHz tone at  $\pm 12.5$  kHz deviation and set its output level to -100dBm.
- Turn on the transmitter.
- 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  $P_0$ .
- Turn off the transmitter.
- Adjust the RF level of the signal generator to provide RF power equal to  $P_0$ . This signal generator RF level shall be maintained throughout the rest of the measurement.
- Remove the attenuation 1, so the input power to the Spectrum Analyzer is increased by 30 dB when the transmitter is turned on.
- Adjust the vertical amplitude control of the spectrum analyzer to display the 1000 Hz at  $\pm 4$  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 "trigger offset" to -10ms for turn on and -15ms for turn off.
- 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  $t_1$  and  $t_2$ .

- 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  $t_3$ .



## Test Data

### Environmental Conditions

Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2015-01-20.

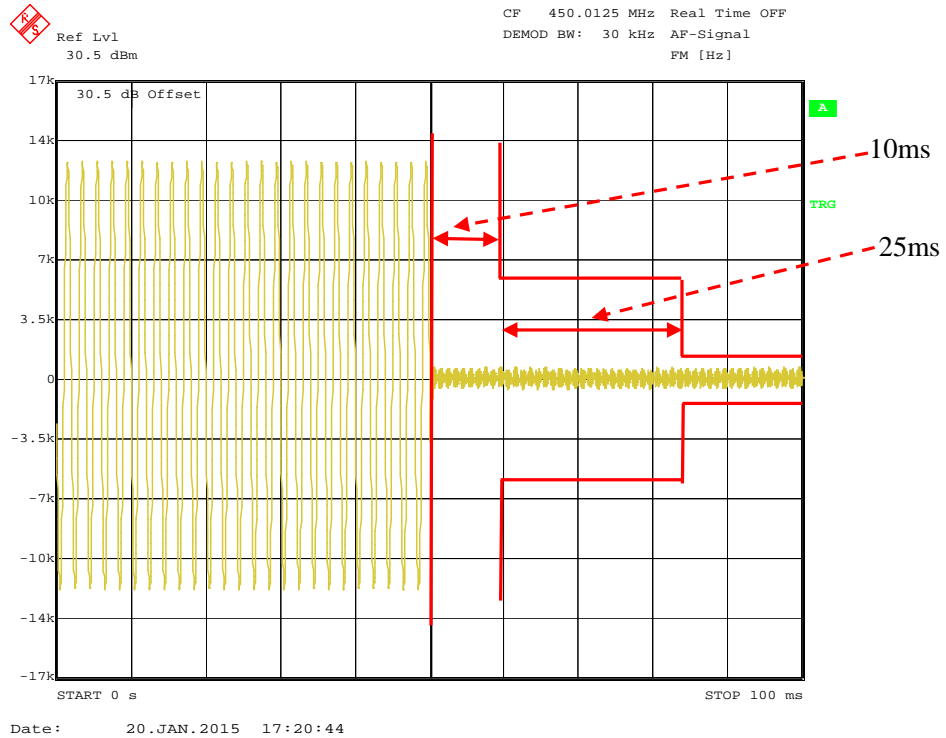
Test Mode: Transmitting

Channel Separation (kHz)	Transient Period (ms)	Transient Frequency	Result
12.5	10 (t1)	<+/-12.5 kHz	Pass
	25 (t2)	<+/-6.25 kHz	
	10 (t3)	<+/-12.5 kHz	

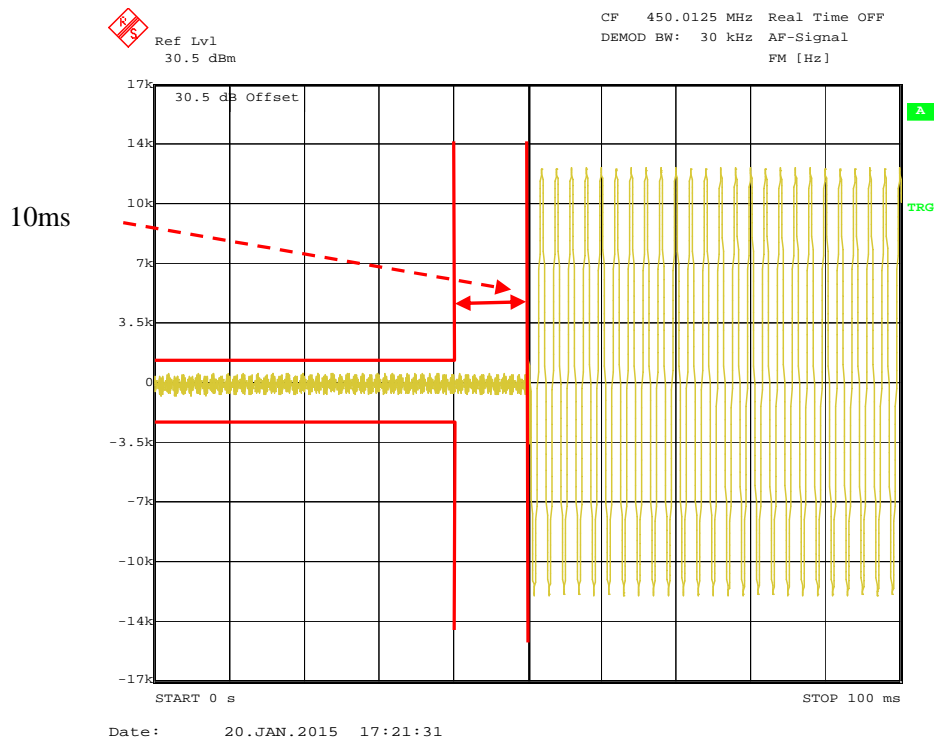
Please refer to the following plots.

# Channel Spacing 12.5 kHz

## Turn on



## Turn off



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## PRODUCT SIMILARITY DECLARATION LETTER

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Hytera Communications Corporation Ltd.

Add: HYT Tower, Hi-Tech Industrial Park North, Nanshan District, Shenzhen China.  
518057

Tel: +86-0755-26972999

Fax: +86-0755-86137130

2015-01-29

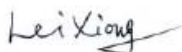
### Product Similarity Declaration

To Whom It May Concern,

We, Hytera Communications Corporation Ltd. , hereby declare that we have a product named as Digital Portable Radio (Model number: PD370 Uf) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (PD372 Uf、PD375 Uf、PD376 Uf、PD378 Uf) on reports and certificate, all the models are identical schematics.

No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature: 

Lei Xiong

General Director

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