

# **FCC Radio Test Report**

**FCC ID: 2ABAMSNSE** 

This report concerns (check one): ⊠Original Grant □Class II Change

Project No. : 1501068
Equipment : Sense
Model Name : MA14214
Applicant : Hello Inc.

Address: 1660, 17th St., San Francisco, CA 94107, United

States

Date of Receipt : Jan. 14, 2015

Date of Test : Jan. 14, 2015~Jan. 28, 2015

**Issued Date** : Jan. 29, 2015 **Tested by** : BTL Inc.

Testing Engineer

(Gary Chou)

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**Authorized Signatory** 

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#### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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# **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-2-1501068	Original Issue.	Jan. 29, 2015

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# 1. CERTIFICATION

Equipment : Sense
Brand Name : Hello
Model Name : MA14214
Applicant : Hello Inc.
Manufacturer : Jabil Circuit

Address : 10560, Dr. Martin Luther King Jr. St. N., St. Petersburg, FL 33716, United

States

Factory : Jabil Circuit (GuangZhou) LTD.

Address : 128, JunCheng Road, Eastern Zone, Guangzhou Economic and Technological

Development District, 510530 Guangdong Province, PRC

Date of Test : Jan. 14, 2015~Jan. 28, 2015 Test Sample : ENGINEERING SAMPLE

Standard(s): FCC Part15, Subpart C: 2013 (15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1501068) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): F	CC Part15 (15.247) , Sub	part C: 2013	
Standard(s) Section FCC	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

# NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

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#### 2.1TEST FACILITY

The test facilities used to collect the test data in this report:

#### **Conducted emission Test:**

**C02:** (VCCI RN: C-3477; FCC RN: 614388; FCC DN: TW1054)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

# Radiated emission Test (Below 1 GHz):

**CB08:** (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428A-1)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

# Radiated emission Test (Above 1 GHz):

**CB08:** (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428A-1)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

#### 2.2MEASUREMENT UNCERTAINTY

# The measurement uncertainty is not specified by FCC rules for reference only.

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately  $\mathbf{95}\%$ .

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

#### A. Conducted emission test:

Test Site	Measurement Frequency Range	U,(dB)	NOTE
C02	150 kHz ~ 30 MHz	2.59	

#### B. Radiated emission test:

Test Site	Item	Measurement Frequency Range		Uncertainty	NOTE
			30 - 200MHz	3.35 dB	
		Horizontal	200 - 1000MHz	3.11 dB	
	Radiated	Polarization	1 - 18GHz	3.97 dB	
CB08	emission at		18 - 40GHz	4.01 dB	
СВОО	3m		30 - 200MHz	3.22 dB	
	3111	Vertical	200 - 1000MHz	3.24 dB	
		Polarization	1 - 18GHz	4.05 dB	
			18 - 40GHz	4.04 dB	

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our  $U_{lab}$  values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U<sub>CISPR</sub>, as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) - 30 MHz - 1000 MHz: 5.2 dB

It can be seen that our  $U_{\text{lab}}$  values are smaller than  $U_{\text{CISPR}}$ .

If  $U_{lab}$  is less than or equal to  $U_{CISPR}$ , then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{CISPR}$ , then:

- compliance is deemed to occur if no measured disturbance level, increased by (U<sub>lab</sub> U<sub>CISPR</sub>), exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} U_{CISPR})$ , exceeds the disturbance limit.



# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Sense			
Brand Name	Hello			
Model Name	MA14214	MA14214		
Model Difference	Include two colors: White	and Black.		
	Operation Frequency	2412~2462 MHz		
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM		
Product Description	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 72 Mbps		
	Output Power (Max.)	802.11b: 16.87dBm 802.11g: 17.23dBm 802.11n(20MHz): 18.47dBm		
Power Source	(1) DC voltage supplied from AC/DC adapter. #1 Brand:AMIGO Model: AMS132-050yFU (QQGQ.E141650) #2 Brand:JQH Model: AUA14423 (QQGQ.E302975) (2) Supplied from USB Port.			
Power Rating	DC 5.0V,1A			

# Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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# 2. Channel List:

	CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

# 3. Table for Filed Antenna

Ant	Brand	Model Name	Antena Type	Connector	Gain(dBi)
1	N/A	N/A	Printed	N/A	2.29
2	N/A	N/A	PIFA	N/A	0.51

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#### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX MODE(Adapter:JQH)
Mode 5	TX MODE(Adapter: AMIGO)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode	Description	
Mode 4	TX MODE(Adapter:JQH)	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	

#### Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps) 802.11g mode: OFDM (6Mbps)

802.11n HT20 mode: BPSK (6.5Mbps)

For radiated emission tests, the highest output powers were set for final test.

- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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# 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version		N/A	
Frequency (MHz)	2412	2437	2462
802.11b	N/A	N/A	N/A
802.11g	N/A	N/A	N/A
802.11n (20MHz)	N/A	N/A	N/A

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# 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED E-1 EUT

# 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
-	-	-	1	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

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#### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

# 4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

#### Note

- (1) The limit of " \* " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

#### **4.1.2 TEST PROCEDURE**

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e For the actual test configuration, please refer to the related Item –EUT Test Photos.

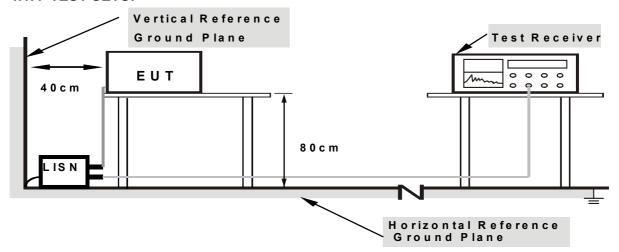
#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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#### 4.1.4 TEST SETUP



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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

# **4.1.6 EUT TEST CONDITIONS**

Temperature: 18°C Relative Humidity: 69% Test Voltage: AC 120V/60Hz

# 4.1.7 TEST RESULTS

Please refer to the Attachment A.

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#### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

## LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)		
	PEAK	AVERAGE	
Above 1000	74	54	

# Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value	
(Emission in restricted band)	RMS detector for AV value	

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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

#### 4.2.2 TEST PROCEDURE

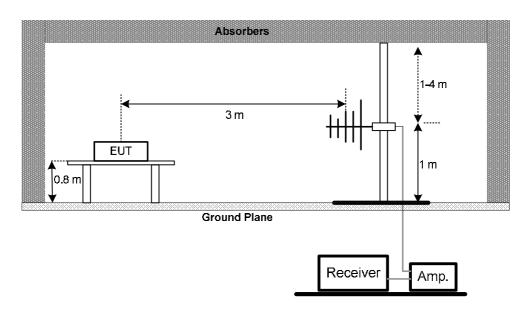
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

# 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.4 TEST SETUP

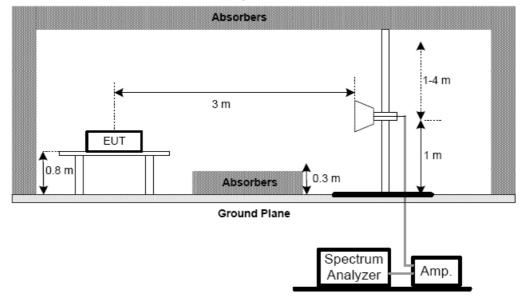
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



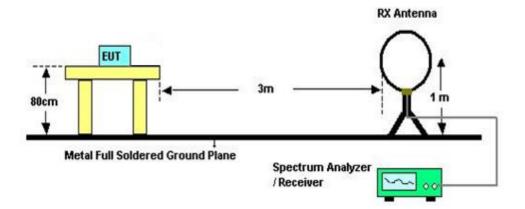
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# (B) Radiated Emission Test Set-Up Frequency Above 1 GHz



# (C) For radiated emissions below 30MHz



# **4.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

# **4.2.6 EUT TEST CONDITIONS**

Temperature: 24°C Relative Humidity: 65% Test Voltage: AC 120V/60Hz

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# 4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

#### Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

# 4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

# 4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

#### Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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# **5. BANDWIDTH TEST**

#### **5.1 APPLIED PROCEDURES**

FCC Part15 (15.247) , Subpart C				
Section Test Item Frequency Range (MHz) Resul				
15.247(a)(2) Bandwidth 2400-2483.5 PAS				

#### **5.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

#### **5.1.2 DEVIATION FROM STANDARD**

No deviation.

# **5.1.3 TEST SETUP**

EUT	SPECTRUM
	ANALYZER

# **5.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

# **5.1.5 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 62% Test Voltage: DC 5V

# **5.1.6 TEST RESULTS**

Please refer to the Attachment E.

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#### 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

#### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit			Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

#### **6.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP

EUT	Power Meter
	i on on motor

# **6.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

#### **6.1.5 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 62% Test Voltage: DC 5V

#### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

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#### 7. ANTENNA CONDUCTED SPURIOUS EMISSION

#### 7.1 APPLIED PROCEDURES / LIMIT

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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

#### 7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### **7.1.3 TEST SETUP**

EUT	SPECTRUM
	ANALYZER

#### 7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

# 7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 62% Test Voltage: DC 5V

# 7.1.6 TEST RESULTS

Please refer to the Attachment G.

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# 8. POWER SPECTRAL DENSITY TEST

# 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

# **8.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

# 8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

# **8.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

# **8.1.5 EUT TEST CONDITIONS**

Temperature: 25°C Relative Humidity: 62% Test Voltage: DC 5V

# 8.1.6 TEST RESULTS

Please refer to the Attachment H.

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# 9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	LISN	R&S	ENV216	100087	Dec. 07, 2015	
2	Test Cable	TIMES	CFD300-NL	C01	Jun. 15, 2015	
3	EMI Test Receiver	R&S	ESCI	100082	Apr. 13, 2015	
4	Measurement Software	EZ	EZ_EMC (Version NB-02A)	N/A	N/A	

	Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 27, 2015	
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Feb. 13, 2015	
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 16, 2015	
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 13, 2015	
5	Microflex Cable	EMC	S104-SMA	10m	May. 15, 2015	
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 13, 2015	
7	Test Cable	LMR	LMR-400	10m	May. 14, 2015	
8	Test Cable	LMR	LMR-400	3m	May. 14, 2015	
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2015	
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jul. 10, 2015	
11	Loop Antenna	EMCO	6502	00042960	Nov. 06, 2015	

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		6dB Bandwidt	th Measureme	ent	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 27, 2015

		Peak Output Po	wer Measurer	ment	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 27, 2015

	Antenna Conducted Spurious Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 27, 2015

	Power Spectral Density Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 27, 2015

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

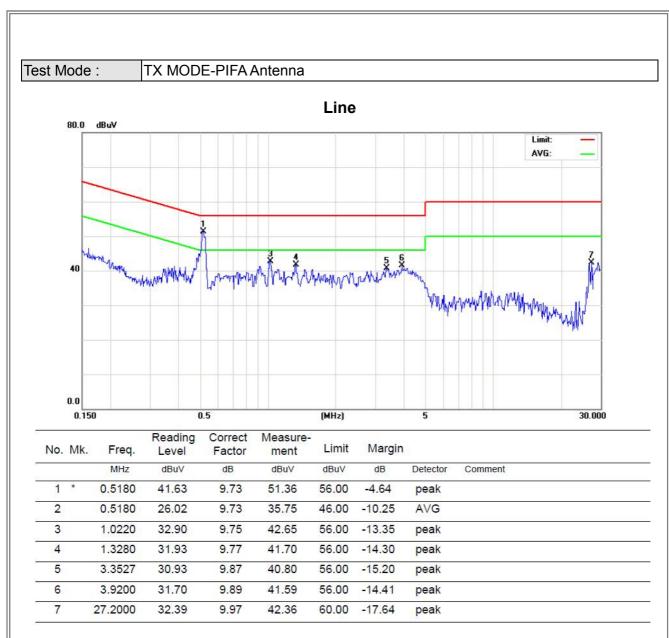
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ATTACHMENT A - CONDUCTED EMISSION

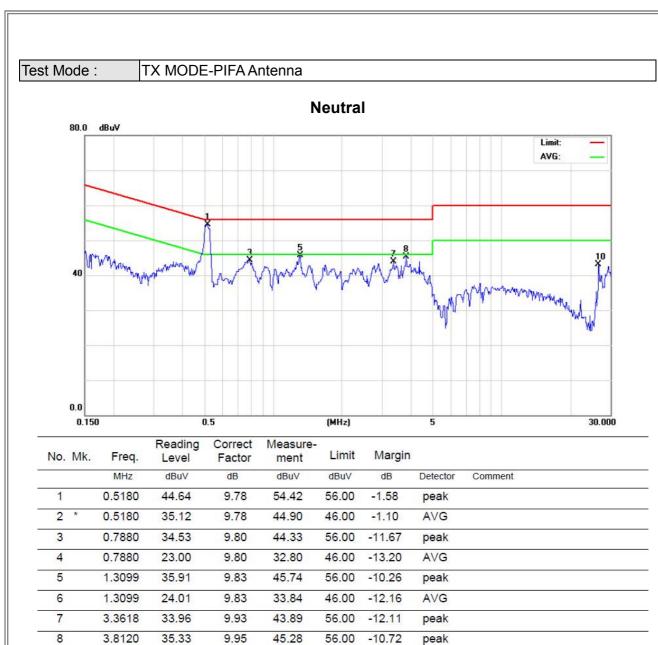
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9

10

3.8120

26.5000

22.96

33.01

9.95

10.13

32.91

43.14

46.00

60.00

-13.09

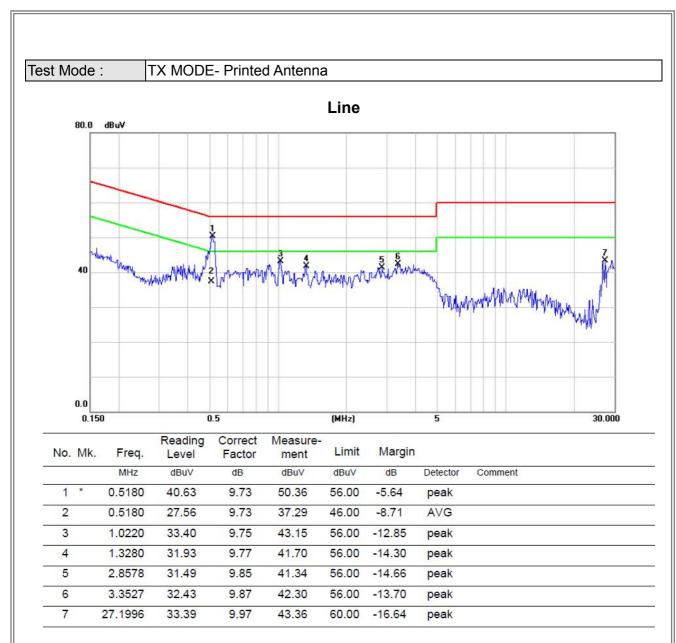
-16.86

AVG

peak

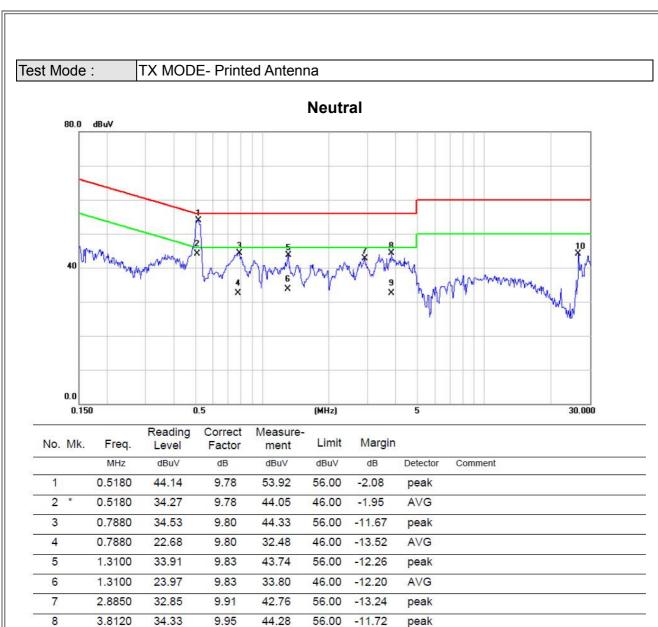
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9

10

3.8120

26.5000

22.53

34.01

9.95

10.13

32.48

44.14

46.00

60.00

-13.52

-15.86

AVG

peak

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ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	

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Test Mode: TX Mode 2412MHz-PIFA Antenna

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note	
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m) (dBuV/m)		INOLE	
0.0093	0°	76.27	19.66	95.93	108.23	-12.30	AVG	
0.0093	0°	82.40	19.66	102.06	102.06 128.23		PK	
0.0236	0°	56.37	16.25	72.62	100.15	-27.53	AVG	
0.0236	0°	64.35	16.25	80.60	120.15	-39.55	PK	
0.0318	0°	57.59	14.73	72.32	97.56	-25.24	AVG	
0.0318	0°	61.57	14.73	76.30	117.56	-41.26	PK	
0.0430	0°	59.22	13.77	72.99	94.93	-21.95	AVG	
0.0430	0°	63.81	13.77	77.58	114.93	-37.36	PK	
0.4913	0°	19.42	11.21	30.63	73.78	-43.14	QP	
1.7155	0°	20.11	11.63	31.74	69.54	-37.80	QP	

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note	
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	.1010	
0.0095	90°	76.29	19.52	95.81	95.81 108.05		AVG	
0.0095	90°	82.33	19.52	101.85	101.85 128.05		PK	
0.0238	90°	56.05	16.20	72.25	72.25 100.07		AVG	
0.0238	90°	61.54	16.20	77.74	120.07	-42.33	PK	
0.0319	90°	57.82	14.72	72.54	97.53	-24.99	AVG	
0.0319	90°	63.29	14.72	78.01	117.53	-39.52	PK	
0.0428	90°	59.64	13.79	73.43	94.98	-21.55	AVG	
0.0428	90°	63.87	13.79	77.66	114.98	-37.32	PK	
0.4918	90°	19.78	11.21	30.99	73.77	-42.77	QP	
1.7154	90°	20.33	11.63	31.96	69.54	-37.58	QP	

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Test Mode: TX Mode 2412MHz-Printed Antenna

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	` '   ` ' '   ` ' '   ` ' '   ` ' '   ` ' '   ` ' '   `   `		Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0096	0°	76.33	19.44	95.77 107.96		-12.19	AVG
0.0096	0°	82.41	19.44	101.85	127.96	-26.11	PK
0.0239	0°	56.39	16.18	72.57	72.57 100.04		AVG
0.0239	0°	62.33	16.18	78.51 120.04		-41.52	PK
0.0316	0°	57.41	14.74	72.15	97.61	-25.46	AVG
0.0316	0°	64.51	14.74	79.25	117.61	-38.36	PK
0.0432	0°	58.66	13.75	72.41	94.89	-22.48	AVG
0.0432	0°	65.13	13.75	78.88	114.89	-36.01	PK
0.4950	0°	20.52	11.22	31.74	73.71	-41.98	QP
1.1720	0°	19.77	11.47	31.24	66.23	-34.98	QP

Freq.	Ant.	Reading(RA)	, ,	Measured(FS)	Limits(QP)	Margin (dB)	Note	
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m) (dBuV/m)			
0.0096	90°	76.35	19.44	4 95.79 107.96		-12.17	AVG	
0.0096	90°	82.24	19.44	101.68	101.68 127.96		PK	
0.0237	90°	56.12	16.23	72.35	72.35 100.11		AVG	
0.0237	90°	63.35	16.23	79.58	120.11	-40.53	PK	
0.0321	90°	57.81	14.70	72.51	97.47	-24.96	AVG	
0.0321	90°	62.45	14.70	77.15	117.47	-40.32	PK	
0.0429	90°	59.36	13.78	73.14	94.96	-21.82	AVG	
0.0429	90°	64.11	13.78	77.89	114.96	-37.07	PK	
0.4917	90°	20.48	11.21	31.69	73.77	-42.08	QP	
1.1715	90°	21.66	11.47	33.13	66.23	-33.10	QP	

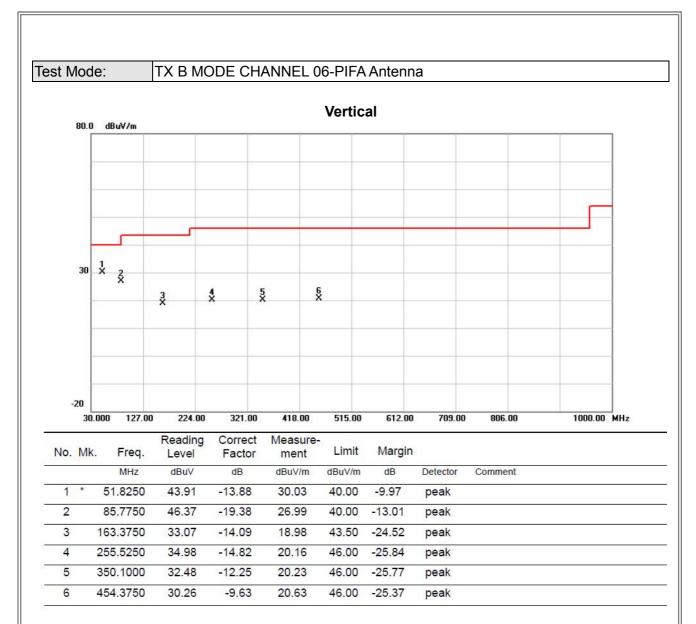
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ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

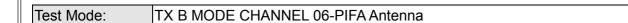
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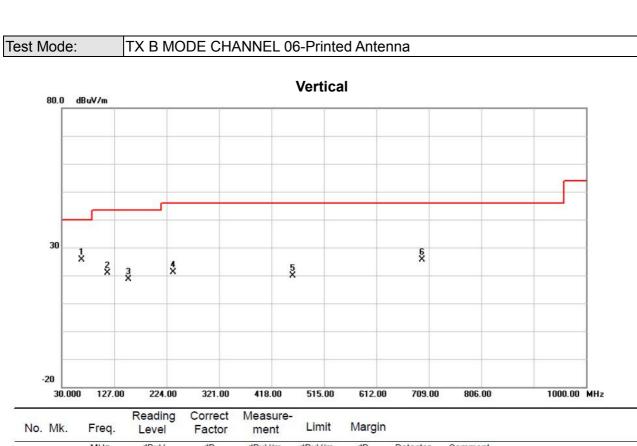


# Horizontal 80.0 dBuV/m 30 5 X 6 X 2 X X X -20 224.00 709.00 30.000 127.00 321.00 515.00 1000.00 MHz 418.00 612.00 806.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		114.8750	38.98	-16.78	22.20	43.50	-21.30	peak	
2		233.7000	39.27	-15.62	23.65	46.00	-22.35	peak	
3		350.1000	33.57	-12.25	21.32	46.00	-24.68	peak	
4		527.1250	28.71	-8.59	20.12	46.00	-25.88	peak	
5	*	767.2000	30.94	-4.91	26.03	46.00	-19.97	peak	
6		815.7000	30.05	-4.46	25.59	46.00	-20.41	peak	

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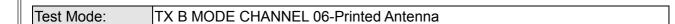




No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	66.3750	41.46	-15.71	25.75	40.00	-14.25	peak	
2		114.8750	37.61	-16.78	20.83	43.50	-22.67	peak	
3		153.6750	32.70	-14.00	18.70	43.50	-24.80	peak	
4	3	236.1250	36.56	-15.47	21.09	46.00	-24.91	peak	
5	1	456.8000	29.60	-9.62	19.98	46.00	-26.02	peak	
6		696.8750	31.22	-5.51	25.71	46.00	-20.29	peak	

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# Horizontal 80.0 dBuV/m 30 8 4 × 5 X 2 X -20 30.000 1000.00 MHz 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	114.8750	36.03	-16.78	19.25	43.50	-24.25	peak	
2	7	170.6500	33.30	-14.49	18.81	43.50	-24.69	peak	
3	*	238.5500	40.39	-15.34	25.05	46.00	-20.95	peak	
4		371.9250	32.54	-11.80	20.74	46.00	-25.26	peak	
5		536.8250	28.79	-8.33	20.46	46.00	-25.54	peak	
6		733.2500	29.98	-5.14	24.84	46.00	-21.16	peak	

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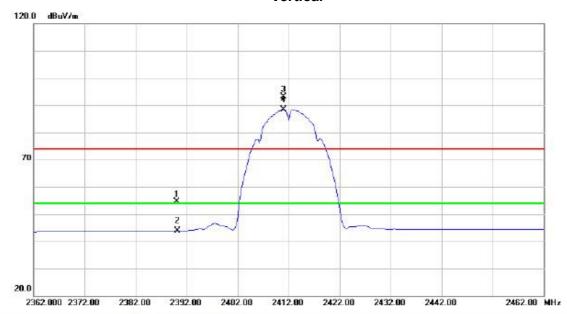


ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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#### Vertical

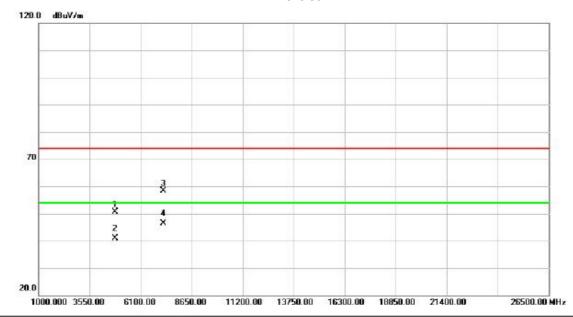


1	Freq.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
0	0.000	0.000	23.53	31.02	54.55	74.00	-19.45	peak		
0	0.000	0.000	12.92	31.02	43.94	54.00	-10.06	AVG		
0	1.000	1.000	62.10	31.12	93.22	74.00	19.22	peak	NO LIMIT	
0	1.000	1.000	57.31	31.12	88.43	54.00	34.43	AVG	NO LIMIT	
	1.000	1.000	37.31	31.12	00.43	34.00	34.4	13	S AVG	S AVG 115 E.M.I.

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# Vertical



Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4824.075	43.97	6.78	50.75	74.00	-23.25	peak		
	4824.075	34.20	6.78	40.98	54.00	-13.02	AVG		
	7236.495	43.13	15.17	58.30	74.00	-15.70	peak		
*	7236.495	31.18	15.17	46.35	54.00	-7.65	AVG		
			Mk. Freq. Level  MHz dBuV  4824.075 43.97  4824.075 34.20  7236.495 43.13	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4824.075         43.97         6.78           4824.075         34.20         6.78           7236.495         43.13         15.17	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4824.075         43.97         6.78         50.75           4824.075         34.20         6.78         40.98           7236.495         43.13         15.17         58.30	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4824.075         43.97         6.78         50.75         74.00           4824.075         34.20         6.78         40.98         54.00           7236.495         43.13         15.17         58.30         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4824.075         43.97         6.78         50.75         74.00         -23.25           4824.075         34.20         6.78         40.98         54.00         -13.02           7236.495         43.13         15.17         58.30         74.00         -15.70	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4824.075         43.97         6.78         50.75         74.00         -23.25         peak           4824.075         34.20         6.78         40.98         54.00         -13.02         AVG           7236.495         43.13         15.17         58.30         74.00         -15.70         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB         Detector         Comment           4824.075         43.97         6.78         50.75         74.00         -23.25         peak           4824.075         34.20         6.78         40.98         54.00         -13.02         AVG           7236.495         43.13         15.17         58.30         74.00         -15.70         peak

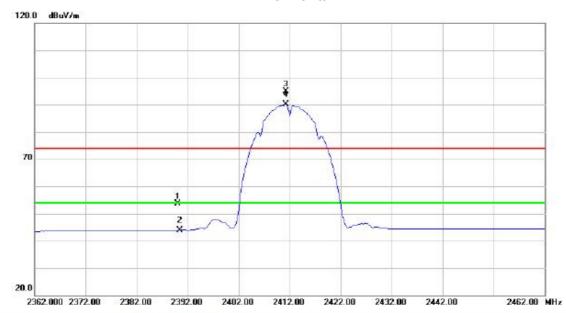
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Orthogonal Axis: X

Test Mode: TX B MODE 2412MHz-PIFA Antenna

#### Horizontal

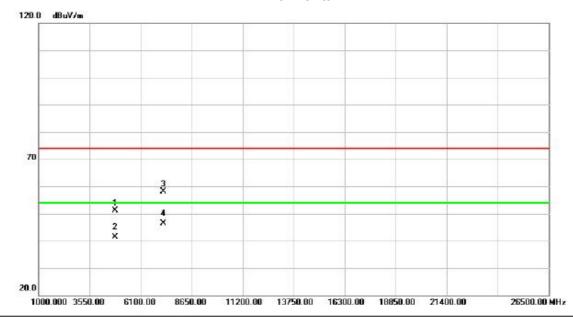


No.	M	k.	Freq.	Level	Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		23	90.000	22.68	31.02	53.70	74.00	-20.30	peak	
2		23	90.000	12.96	31.02	43.98	54.00	-10.02	AVG	
3	X	24	11.250	63.76	31.12	94.88	74.00	20.88	peak	NO LIMIT
4	*	24	11.250	59.00	31.12	90.12	54.00	36.12	AVG	NO LIMIT

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#### Horizontal

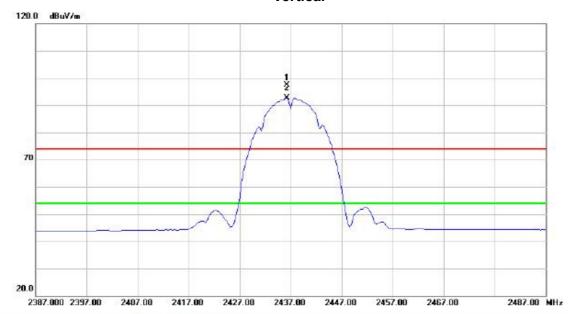


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.045	44.41	6.78	51.19	74.00	-22.81	peak	
2		4824.045	34.53	6.78	41.31	54.00	-12.69	AVG	
3		7236.565	42.90	15.17	58.07	74.00	-15.93	peak	
4	*	7236.565	31.15	15.17	46.32	54.00	-7.68	AVG	

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#### Vertical



No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	36.250	66.16	31.24	97.40	74.00	23.40	peak	NO LIMIT	
2	*	24	36.250	61.40	31.24	92.64	54.00	38.64	AVG	NO LIMIT	

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# Vertical



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4873.788	44.99	6.78	51.77	74.00	-22.23	peak		
	4873.788	36.01	6.78	42.79	54.00	-11.21	AVG		
	7309.738	43.39	15.57	58.96	74.00	-15.04	peak		
*	7309.738	31.63	15.57	47.20	54.00	-6.80	AVG		
		MHz 4873.788 4873.788 7309.738	Mk. Freq. Level  MHz dBuV  4873.788 44.99  4873.788 36.01  7309.738 43.39	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4873.788         44.99         6.78           4873.788         36.01         6.78           7309.738         43.39         15.57	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4873.788         44.99         6.78         51.77           4873.788         36.01         6.78         42.79           7309.738         43.39         15.57         58.96	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4873.788         44.99         6.78         51.77         74.00           4873.788         36.01         6.78         42.79         54.00           7309.738         43.39         15.57         58.96         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4873.788         44.99         6.78         51.77         74.00         -22.23           4873.788         36.01         6.78         42.79         54.00         -11.21           7309.738         43.39         15.57         58.96         74.00         -15.04	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4873.788         44.99         6.78         51.77         74.00         -22.23         peak           4873.788         36.01         6.78         42.79         54.00         -11.21         AVG           7309.738         43.39         15.57         58.96         74.00         -15.04         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB         Detector         Comment           4873.788         44.99         6.78         51.77         74.00         -22.23         peak           4873.788         36.01         6.78         42.79         54.00         -11.21         AVG           7309.738         43.39         15.57         58.96         74.00         -15.04         peak

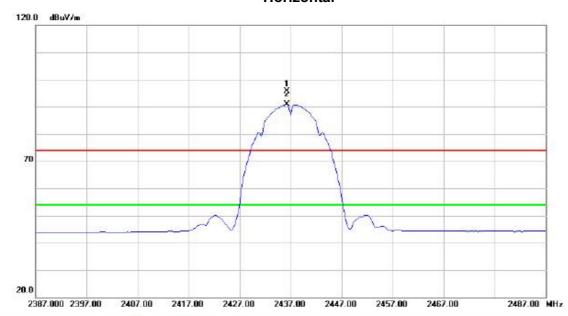
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Orthogonal Axis: X

Test Mode: TX B MODE 2437MHz-PIFA Antenna

#### Horizontal

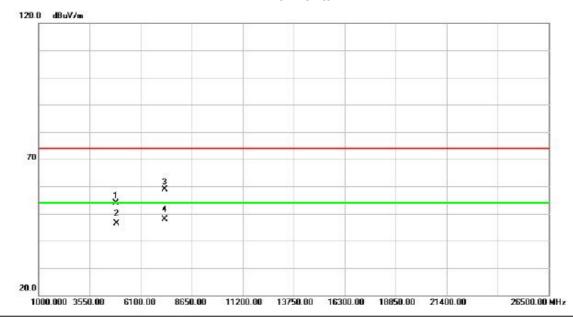


No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	243	86.250	64.42	31.24	95.66	74.00	21.66	peak	NO LIMIT	
2	*	243	86.250	59.58	31.24	90.82	54.00	36.82	AVG	NO LIMIT	

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#### Horizontal

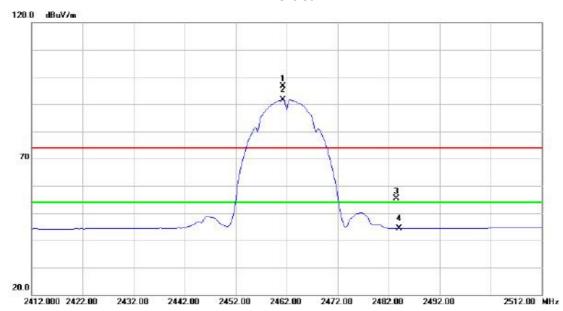


No.	Mk	. Freq.	Reading Level	Correct	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.925	47.02	6.78	53.80	74.00	-20.20	peak	
2		4873.925	39.58	6.78	46.36	54.00	-7.64	AVG	
3		7309.738	43.22	15.57	58.79	74.00	-15.21	peak	
4	*	7309.738	32.22	15.57	47.79	54.00	-6.21	AVG	

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#### Vertical



v	MHz	dBuV	dB	dBuV/m	- 12 Charles				
v				ubu viiii	dBuV/m	dB	Detector	Comment	
^	2461.250	65.25	31.36	96.61	74.00	22.61	peak	NO LIMIT	
*	2461.250	60.30	31.36	91.66	54.00	37.66	AVG	NO LIMIT	
	2483.500	23.87	31.46	55.33	74.00	-18.67	peak		
	2483.500	12.89	31.46	44.35	54.00	-9.65	AVG		
_	_	2461.250 2483.500	2461.250 60.30 2483.500 23.87	2461.250 60.30 31.36 2483.500 23.87 31.46	2461.250     60.30     31.36     91.66       2483.500     23.87     31.46     55.33	2461.250     60.30     31.36     91.66     54.00       2483.500     23.87     31.46     55.33     74.00	2461.250     60.30     31.36     91.66     54.00     37.66       2483.500     23.87     31.46     55.33     74.00     -18.67	2461.250 60.30 31.36 91.66 54.00 37.66 AVG 2483.500 23.87 31.46 55.33 74.00 -18.67 peak	2461.250 60.30 31.36 91.66 54.00 37.66 AVG NO LIMIT 2483.500 23.87 31.46 55.33 74.00 -18.67 peak

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# Vertical



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4924.063	45.42	6.77	52.19	74.00	-21.81	peak		
	4924.063	37.23	6.77	44.00	54.00	-10.00	AVG		
	7386.363	42.72	15.98	58.70	74.00	-15.30	peak		
*	7386.363	31.51	15.98	47.49	54.00	-6.51	AVG		
		MHz 4924.063 4924.063 7386.363	Mk. Freq. Level  MHz dBuV  4924.063 45.42  4924.063 37.23  7386.363 42.72	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4924.063         45.42         6.77           4924.063         37.23         6.77           7386.363         42.72         15.98	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4924.063         45.42         6.77         52.19           4924.063         37.23         6.77         44.00           7386.363         42.72         15.98         58.70	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4924.063         45.42         6.77         52.19         74.00           4924.063         37.23         6.77         44.00         54.00           7386.363         42.72         15.98         58.70         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4924.063         45.42         6.77         52.19         74.00         -21.81           4924.063         37.23         6.77         44.00         54.00         -10.00           7386.363         42.72         15.98         58.70         74.00         -15.30	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4924.063         45.42         6.77         52.19         74.00         -21.81         peak           4924.063         37.23         6.77         44.00         54.00         -10.00         AVG           7386.363         42.72         15.98         58.70         74.00         -15.30         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           4924.063         45.42         6.77         52.19         74.00         -21.81         peak           4924.063         37.23         6.77         44.00         54.00         -10.00         AVG           7386.363         42.72         15.98         58.70         74.00         -15.30         peak

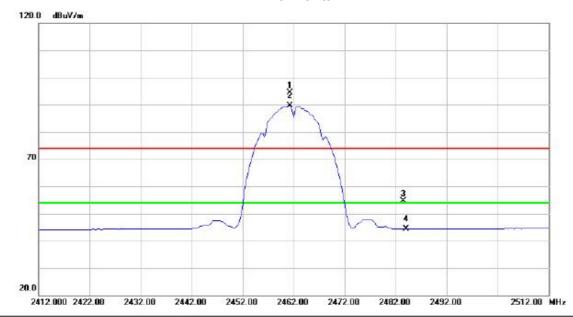
Report No.: BTL-FCCP-2-1501068 Page 53 of 144



Orthogonal Axis: X

Test Mode: TX B MODE 2462MHz-PIFA Antenna

#### Horizontal

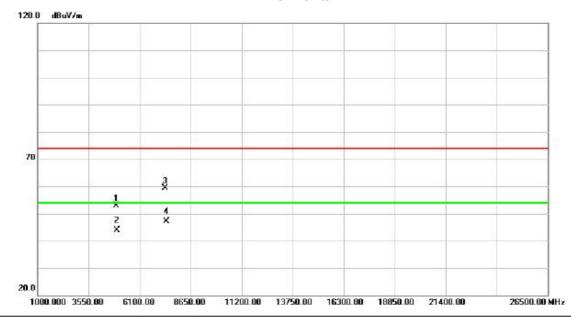


No.	Mk	. Fred		Level	Factor	Measure- ment	Limit	Margin			
		MHz	z	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2461.25	0	63.05	31.36	94.41	74.00	20.41	peak	NO LIMIT	
2	*	2461.25	50	58.27	31.36	89.63	54.00	35.63	AVG	NO LIMIT	
3		2483.50	00	23.07	31.46	54.53	74.00	-19.47	peak		
4		2483.50	00	12.83	31.46	44.29	54.00	-9.71	AVG		

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#### Horizontal

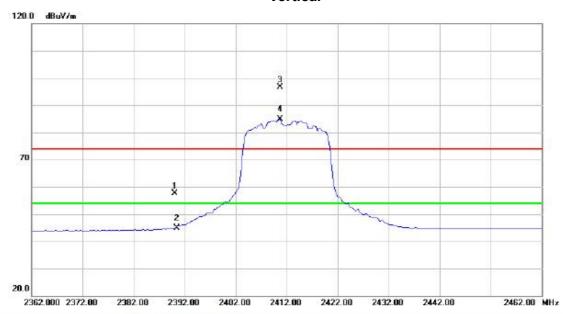


No.	Mk	. Freq	100000000000000000000000000000000000000	vel	Factor	Measure- ment	Limit	Margin			
		MHz	dE	Bu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4923.825	5 46	.03	6.77	52.80	74.00	-21.20	peak		
2		4923.825	37	.06	6.77	43.83	54.00	-10.17	AVG		
3		7388.363	3 43	.28	15.99	59.27	74.00	-14.73	peak		
4	*	7388.363	3 31	.24	15.99	47.23	54.00	-6.77	AVG		

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#### Vertical

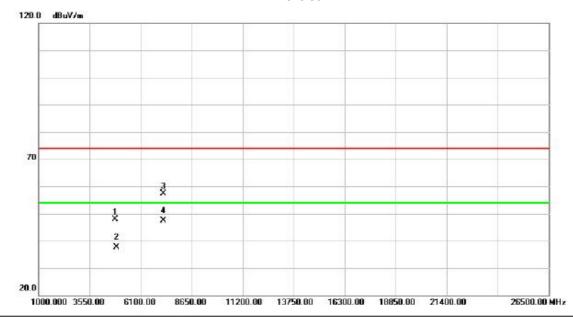


No.	M	c. Freq.	Reading Level	Correct	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	26.66	31.02	57.68	74.00	-16.32	peak		
2		2390.000	13.90	31.02	44.92	54.00	-9.08	AVG		
3	X	2410.750	65.51	31.12	96.63	74.00	22.63	peak	NO LIMIT	
4	*	2410.750	53.66	31.12	84.78	54.00	30.78	AVG	NO LIMIT	
		the state of the s	2-1-12-12-12-12-12-12-12-12-12-12-12-12-	5-940925	146(0004		25 A 10 10			

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# Vertical



No.	Mk	. Freq.	Reading Level	Correct	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4825.975	41.09	6.78	47.87	74.00	-26.13	peak	
2		4825.975	30.89	6.78	37.67	54.00	-16.33	AVG	
3		7238.550	42.29	15.18	57.47	74.00	-16.53	peak	
4	*	7238.550	32.09	15.18	47.27	54.00	-6.73	AVG	

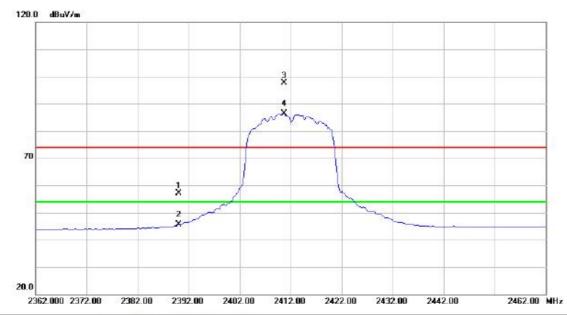
Report No.: BTL-FCCP-2-1501068 Page 57 of 144



Orthogonal Axis: X

Test Mode: TX G MODE 2412MHz-PIFA Antenna

# Horizontal

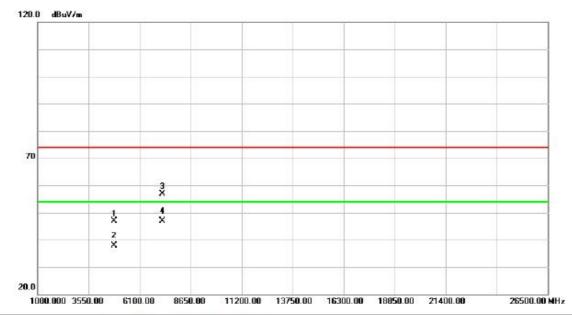


Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	2390.000	26.18	31.02	57.20	74.00	-16.80	peak	
	2390.000	14.61	31.02	45.63	54.00	-8.37	AVG	
Х	2410.750	66.40	31.12	97.52	74.00	23.52	peak	NO LIMIT
*	2410.750	55.18	31.12	86.30	54.00	32.30	AVG	NO LIMIT
	X	MHz 2390.000 2390.000 X 2410.750	Mk. Freq. Level  MHz dBuV  2390.000 26.18  2390.000 14.61  X 2410.750 66.40	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           2390.000         26.18         31.02           2390.000         14.61         31.02           X         2410.750         66.40         31.12	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           2390.000         26.18         31.02         57.20           2390.000         14.61         31.02         45.63           X         2410.750         66.40         31.12         97.52	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           2390.000         26.18         31.02         57.20         74.00           2390.000         14.61         31.02         45.63         54.00           X         2410.750         66.40         31.12         97.52         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           2390.000         26.18         31.02         57.20         74.00         -16.80           2390.000         14.61         31.02         45.63         54.00         -8.37           X         2410.750         66.40         31.12         97.52         74.00         23.52	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           2390.000         26.18         31.02         57.20         74.00         -16.80         peak           2390.000         14.61         31.02         45.63         54.00         -8.37         AVG           X         2410.750         66.40         31.12         97.52         74.00         23.52         peak

Report No.: BTL-FCCP-2-1501068 Page 58 of 144



# Horizontal

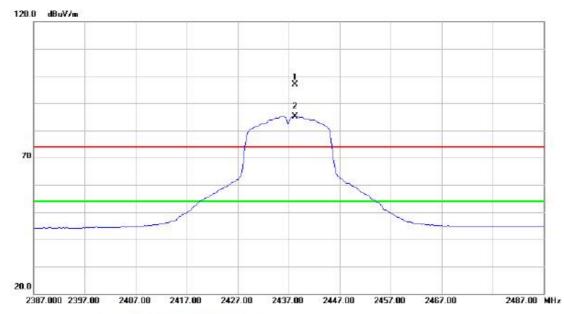


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4823.300	40.17	6.78	46.95	74.00	-27.05	peak		
	4823.300	31.17	6.78	37.95	54.00	-16.05	AVG		
	7238.700	41.81	15.19	57.00	74.00	-17.00	peak		
*	7238.700	31.62	15.19	46.81	54.00	-7.19	AVG		
		MHz 4823.300 4823.300 7238.700	Mk. Freq. Level  MHz dBuV  4823.300 40.17  4823.300 31.17  7238.700 41.81	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4823.300         40.17         6.78           4823.300         31.17         6.78           7238.700         41.81         15.19	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4823.300         40.17         6.78         46.95           4823.300         31.17         6.78         37.95           7238.700         41.81         15.19         57.00	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4823.300         40.17         6.78         46.95         74.00           4823.300         31.17         6.78         37.95         54.00           7238.700         41.81         15.19         57.00         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4823.300         40.17         6.78         46.95         74.00         -27.05           4823.300         31.17         6.78         37.95         54.00         -16.05           7238.700         41.81         15.19         57.00         74.00         -17.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4823.300         40.17         6.78         46.95         74.00         -27.05         peak           4823.300         31.17         6.78         37.95         54.00         -16.05         AVG           7238.700         41.81         15.19         57.00         74.00         -17.00         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB         Detector         Comment           4823.300         40.17         6.78         46.95         74.00         -27.05         peak           4823.300         31.17         6.78         37.95         54.00         -16.05         AVG           7238.700         41.81         15.19         57.00         74.00         -17.00         peak

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# Vertical

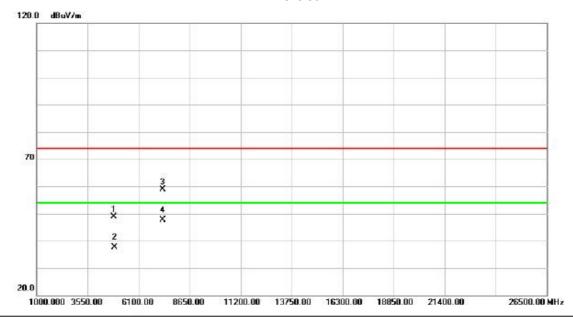


No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	38.250	65.55	31.25	96.80	74.00	22.80	peak	NO LIMIT	
2	*	24	38.250	53.99	31.25	85.24	54.00	31.24	AVG	NO LIMIT	

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# Vertical



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4875.038	42.09	6.77	48.86	74.00	-25.14	peak		
2		4875.038	30.96	6.77	37.73	54.00	-16.27	AVG		
3		7309.300	43.40	15.57	58.97	74.00	-15.03	peak		
4	*	7309.300	32.11	15.57	47.68	54.00	-6.32	AVG		

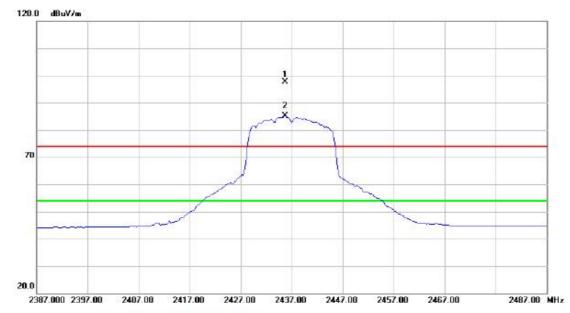
Report No.: BTL-FCCP-2-1501068 Page 61 of 144



Orthogonal Axis: X

Test Mode: TX G MODE 2437MHz-PIFA Antenna

# Horizontal

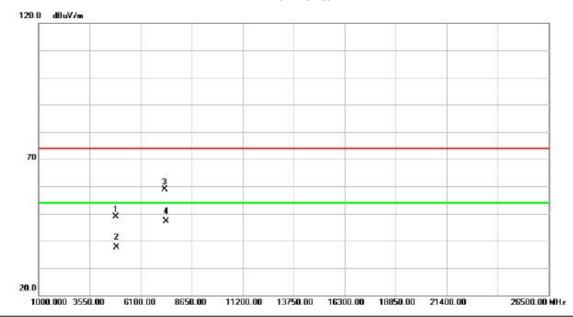


No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	35.750	66.30	31.24	97.54	74.00	23.54	peak	NO LIMIT	
2	*	24	35.750	53.78	31.24	85.02	54.00	31.02	AVG	NO LIMIT	

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#### Horizontal

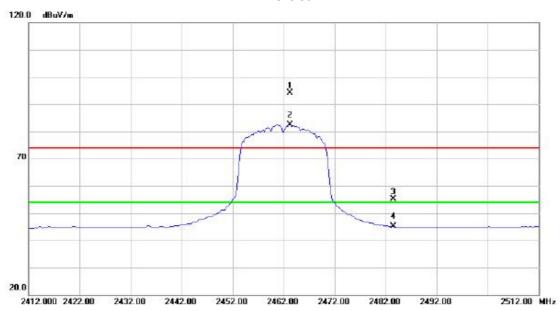


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.600	42.06	6.78	48.84	74.00	-25.16	peak		
2		4873.600	30.84	6.78	37.62	54.00	-16.38	AVG		
3		7313.950	43.22	15.59	58.81	74.00	-15.19	peak		
4	*	7313.950	31.62	15.59	47.21	54.00	-6.79	AVG		

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# Vertical

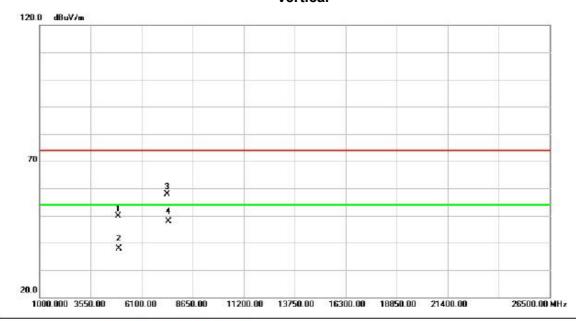


No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2463.250	62.84	31.37	94.21	74.00	20.21	peak	NO LIMIT	
2	*	2463.250	50.95	31.37	82.32	54.00	28.32	AVG	NO LIMIT	
3		2483.500	23.71	31.46	55.17	74.00	-18.83	peak		
4		2483.500	13.61	31.46	45.07	54.00	-8.93	AVG		

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# Vertical



No.	Mk	. Freq.	Level	Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.212	43.13	6.77	49.90	74.00	-24.10	peak	
2		4923.212	31.17	6.77	37.94	54.00	-16.06	AVG	
3		7389.575	41.84	16.00	57.84	74.00	-16.16	peak	
4	*	7389.575	31.96	16.00	47.96	54.00	-6.04	AVG	

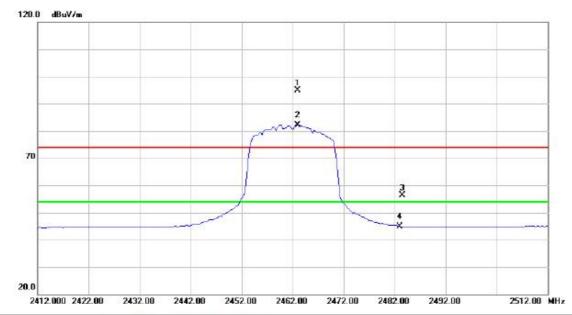
Report No.: BTL-FCCP-2-1501068 Page 65 of 144



Orthogonal Axis: X

Test Mode: TX G MODE 2462MHz-PIFA Antenna

#### Horizontal

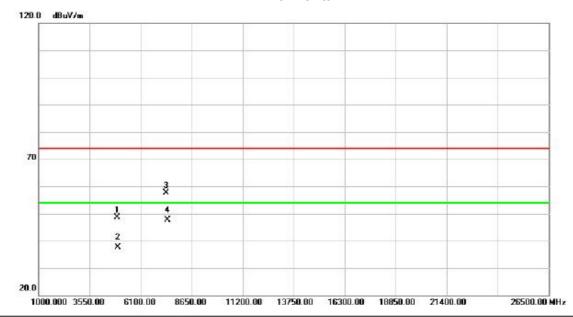


No.	Mk	۲.	Freq.	Level	Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	246	3.000	63.54	31.36	94.90	74.00	20.90	peak	NO LIMIT	
2	*	246	3.000	50.85	31.36	82.21	54.00	28.21	AVG	NO LIMIT	
3		248	3.500	24.83	31.46	56.29	74.00	-17.71	peak		
4		248	3.500	13.49	31.46	44.95	54.00	-9.05	AVG		

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# Horizontal

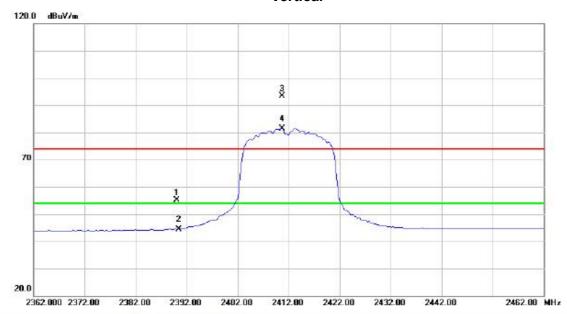


Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4926.525	41.89	6.77	48.66	74.00	-25.34	peak	
	4926.525	30.86	6.77	37.63	54.00	-16.37	AVG	
	7390.950	41.53	16.01	57.54	74.00	-16.46	peak	
*	7390.950	31.67	16.01	47.68	54.00	-6.32	AVG	
		MHz 4926.525 4926.525 7390.950	Mk. Freq. Level  MHz dBuV  4926.525 41.89  4926.525 30.86  7390.950 41.53	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4926.525         41.89         6.77           4926.525         30.86         6.77           7390.950         41.53         16.01	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4926.525         41.89         6.77         48.66           4926.525         30.86         6.77         37.63           7390.950         41.53         16.01         57.54	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4926.525         41.89         6.77         48.66         74.00           4926.525         30.86         6.77         37.63         54.00           7390.950         41.53         16.01         57.54         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4926.525         41.89         6.77         48.66         74.00         -25.34           4926.525         30.86         6.77         37.63         54.00         -16.37           7390.950         41.53         16.01         57.54         74.00         -16.46	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4926.525         41.89         6.77         48.66         74.00         -25.34         peak           4926.525         30.86         6.77         37.63         54.00         -16.37         AVG           7390.950         41.53         16.01         57.54         74.00         -16.46         peak

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# Vertical



No.	M	Κ.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		23	90.000	24.09	31.02	55.11	74.00	-18.89	peak		
2		23	90.000	13.47	31.02	44.49	54.00	-9.51	AVG		
3	X	24	10.750	62.19	31.12	93.31	74.00	19.31	peak	NO LIMIT	
4	*	24	10.750	50.33	31.12	81.45	54.00	27.45	AVG	NO LIMIT	

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# Vertical

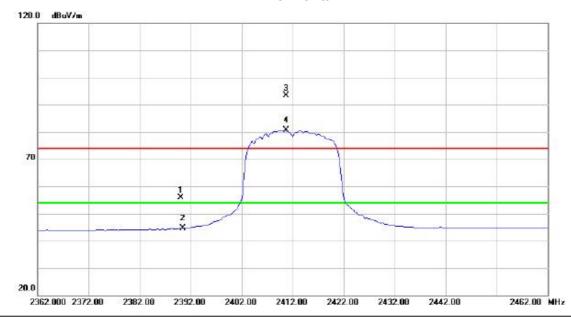


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4823.000	42.47	6.78	49.25	74.00	-24.75	peak		
2		4823.000	31.05	6.78	37.83	54.00	-16.17	AVG		
3		7236.725	42.89	15.17	58.06	74.00	-15.94	peak		
4	*	7236.725	32.05	15.17	47.22	54.00	-6.78	AVG		

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# Horizontal

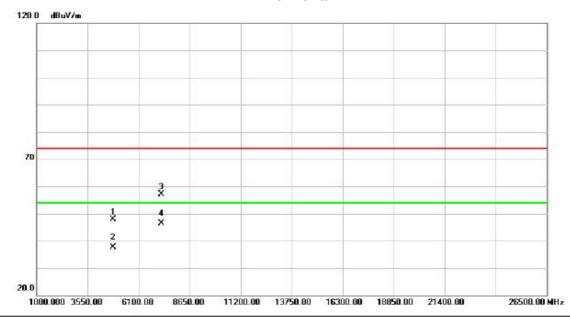


No.	Mk	k.	Freq.	Level	Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		23	90.000	24.84	31.02	55.86	74.00	-18.14	peak	
2		23	90.000	13.60	31.02	44.62	54.00	-9.38	AVG	
3	X	24	10.750	62.18	31.12	93.30	74.00	19.30	peak	NO LIMIT
4	*	24	10.750	49.59	31.12	80.71	54.00	26.71	AVG	NO LIMIT

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# Horizontal

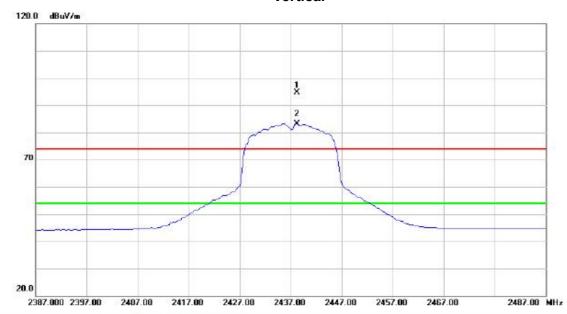


No.	Mk	. Freq.	Reading Level	Correct	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4816.900	41.21	6.78	47.99	74.00	-26.01	peak	
2		4822.300	30.85	6.78	37.63	54.00	-16.37	AVG	
3		7234.250	42.07	15.17	57.24	74.00	-16.76	peak	
4	*	7245.850	31.05	15.22	46.27	54.00	-7.73	AVG	

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# Vertical

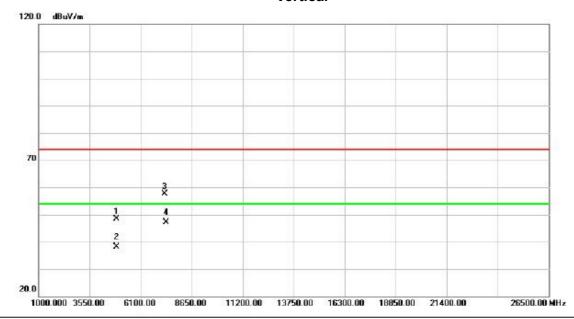


No.	M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2438.250	63.33	31.25	94.58	74.00	20.58	peak	NO LIMIT	
2	*	2438.250	52.00	31.25	83.25	54.00	29.25	AVG	NO LIMIT	

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# Vertical

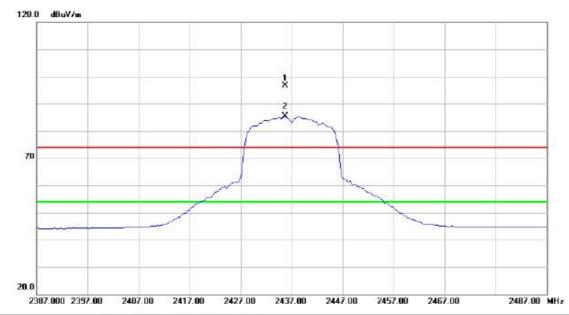


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4878.275	41.52	6.77	48.29	74.00	-25.71	peak		
2		4878.275	31.44	6.77	38.21	54.00	-15.79	AVG		
3		7311.900	42.09	15.58	57.67	74.00	-16.33	peak		
4	*	7311.900	31.49	15.58	47.07	54.00	-6.93	AVG		

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# Horizontal

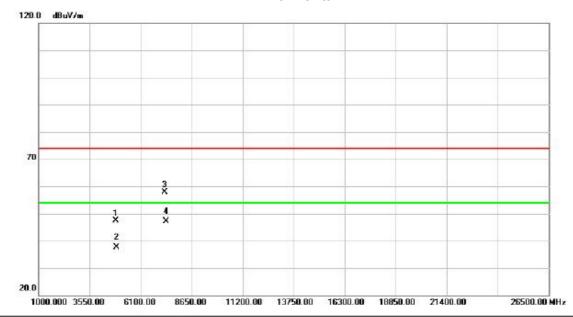


No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment		Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	35.750	65.40	31.24	96.64	74.00	22.64	peak	NO LIMIT	
2	*	24	35.750	54.08	31.24	85.32	54.00	31.32	AVG	NO LIMIT	

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# Horizontal

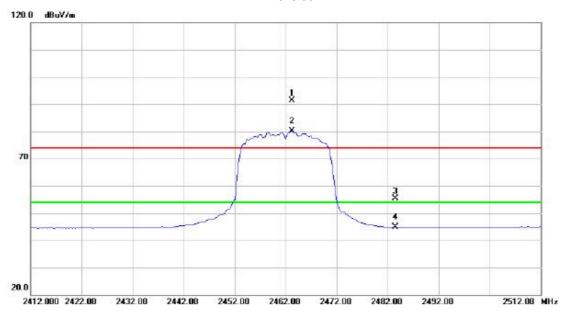


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4872.675	40.62	6.78	47.40	74.00	-26.60	peak		
	4872.675	30.77	6.78	37.55	54.00	-16.45	AVG		
	7313.275	42.36	15.59	57.95	74.00	-16.05	peak		
*	7313.275	31.43	15.59	47.02	54.00	-6.98	AVG		
			Mk. Freq. Level  MHz dBuV  4872.675 40.62  4872.675 30.77  7313.275 42.36	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4872.675         40.62         6.78           4872.675         30.77         6.78           7313.275         42.36         15.59	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4872.675         40.62         6.78         47.40           4872.675         30.77         6.78         37.55           7313.275         42.36         15.59         57.95	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4872.675         40.62         6.78         47.40         74.00           4872.675         30.77         6.78         37.55         54.00           7313.275         42.36         15.59         57.95         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4872.675         40.62         6.78         47.40         74.00         -26.60           4872.675         30.77         6.78         37.55         54.00         -16.45           7313.275         42.36         15.59         57.95         74.00         -16.05	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4872.675         40.62         6.78         47.40         74.00         -26.60         peak           4872.675         30.77         6.78         37.55         54.00         -16.45         AVG           7313.275         42.36         15.59         57.95         74.00         -16.05         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           4872.675         40.62         6.78         47.40         74.00         -26.60         peak           4872.675         30.77         6.78         37.55         54.00         -16.45         AVG           7313.275         42.36         15.59         57.95         74.00         -16.05         peak

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# Vertical

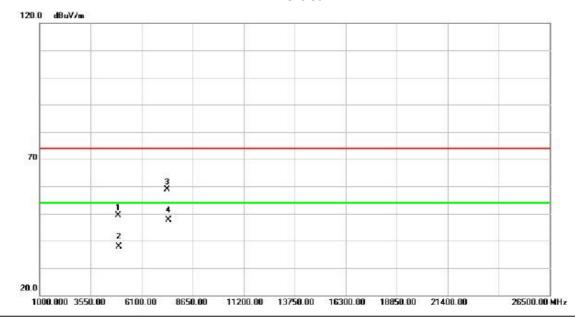


No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2463.250	60.04	31.37	91.41	74.00	17.41	peak	NO LIMIT	
2	*	2463.250	48.78	31.37	80.15	54.00	26.15	AVG	NO LIMIT	
3		2483.500	23.87	31.46	55.33	74.00	-18.67	peak		
4		2483.500	13.40	31.46	44.86	54.00	-9.14	AVG		

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# Vertical

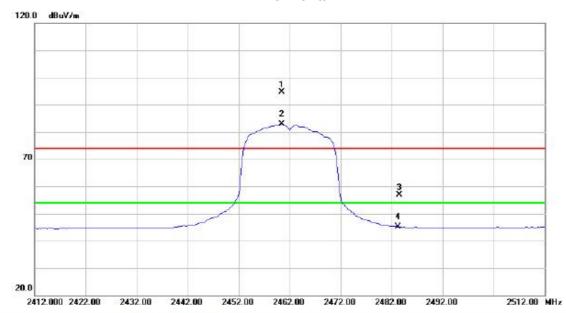


No.	Mk	. Freq.	Level	Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4922.550	42.54	6.77	49.31	74.00	-24.69	peak	
2		4922.550	31.10	6.77	37.87	54.00	-16.13	AVG	
3		7384.850	42.79	15.98	58.77	74.00	-15.23	peak	
4	*	7384.850	31.64	15.98	47.62	54.00	-6.38	AVG	

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# Horizontal

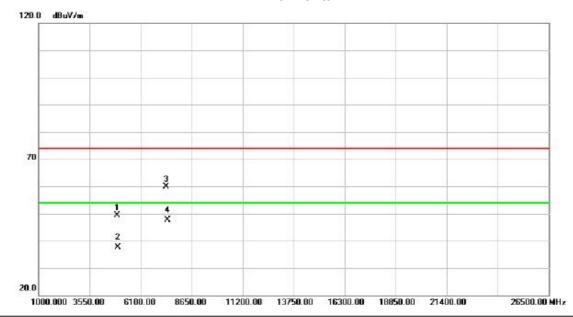


No.	Mi	c. Fr	eq.	Reading Level	Factor	Measure- ment	Limit	Margin			
		M	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2460.5	500	63.26	31.36	94.62	74.00	20.62	peak	NO LIMIT	
2	*	2460.5	000	51.57	31.36	82.93	54.00	28.93	AVG	NO LIMIT	
3		2483.5	500	25.40	31.46	56.86	74.00	-17.14	peak		
4		2483.5	500	13.62	31.46	45.08	54.00	-8.92	AVG		

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# Horizontal

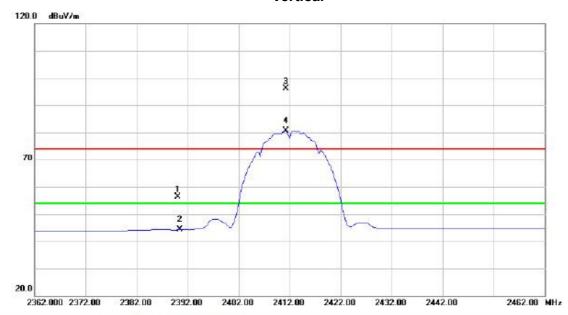


Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4923.300	42.64	6.77	49.41	74.00	-24.59	peak		
	4923.300	30.87	6.77	37.64	54.00	-16.36	AVG		
	7386.850	43.80	15.98	59.78	74.00	-14.22	peak		
*	7386.850	31.76	15.98	47.74	54.00	-6.26	AVG		
		MHz 4923.300 4923.300 7386.850	Mk. Freq. Level  MHz dBuV  4923.300 42.64  4923.300 30.87  7386.850 43.80	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4923.300         42.64         6.77           4923.300         30.87         6.77           7386.850         43.80         15.98	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4923.300         42.64         6.77         49.41           4923.300         30.87         6.77         37.64           7386.850         43.80         15.98         59.78	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4923.300         42.64         6.77         49.41         74.00           4923.300         30.87         6.77         37.64         54.00           7386.850         43.80         15.98         59.78         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4923.300         42.64         6.77         49.41         74.00         -24.59           4923.300         30.87         6.77         37.64         54.00         -16.36           7386.850         43.80         15.98         59.78         74.00         -14.22	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4923.300         42.64         6.77         49.41         74.00         -24.59         peak           4923.300         30.87         6.77         37.64         54.00         -16.36         AVG           7386.850         43.80         15.98         59.78         74.00         -14.22         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           4923.300         42.64         6.77         49.41         74.00         -24.59         peak           4923.300         30.87         6.77         37.64         54.00         -16.36         AVG           7386.850         43.80         15.98         59.78         74.00         -14.22         peak

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# Vertical



M	Κ.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	239	000.00	25.36	31.02	56.38	74.00	-17.62	peak		
	239	000.00	13.24	31.02	44.26	54.00	-9.74	AVG		
X	241	1.250	65.12	31.12	96.24	74.00	22.24	peak	NO LIMIT	
*	241	1.250	49.46	31.12	80.58	54.00	26.58	AVG	NO LIMIT	
	X	239 X 241	MHz 2390.000 2390.000 X 2411.250	Mk. Freq. Level  MHz dBuV  2390.000 25.36  2390.000 13.24  X 2411.250 65.12	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           2390.000         25.36         31.02           2390.000         13.24         31.02           X         2411.250         65.12         31.12	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           2390.000         25.36         31.02         56.38           2390.000         13.24         31.02         44.26           X         2411.250         65.12         31.12         96.24	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           2390.000         25.36         31.02         56.38         74.00           2390.000         13.24         31.02         44.26         54.00           X         2411.250         65.12         31.12         96.24         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           2390.000         25.36         31.02         56.38         74.00         -17.62           2390.000         13.24         31.02         44.26         54.00         -9.74           X         2411.250         65.12         31.12         96.24         74.00         22.24	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           2390.000         25.36         31.02         56.38         74.00         -17.62         peak           2390.000         13.24         31.02         44.26         54.00         -9.74         AVG           X         2411.250         65.12         31.12         96.24         74.00         22.24         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB         Detector         Comment           2390.000         25.36         31.02         56.38         74.00         -17.62         peak           2390.000         13.24         31.02         44.26         54.00         -9.74         AVG           X         2411.250         65.12         31.12         96.24         74.00         22.24         peak         NO LIMIT

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# Vertical

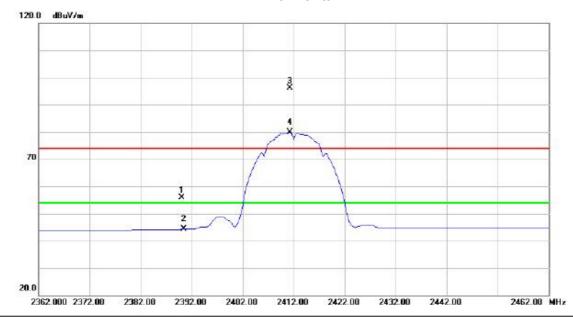


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
4	823.925	45.07	6.78	51.85	74.00	-22.15	peak		
4	823.925	33.39	6.78	40.17	54.00	-13.83	AVG		
7	236.430	43.49	15.17	58.66	74.00	-15.34	peak		
* 7	236.430	31.27	15.17	46.44	54.00	-7.56	AVG		
	4 4 7	MHz 4823.925 4823.925 7236.430	Mk. Freq. Level  MHz dBuV  4823.925 45.07  4823.925 33.39  7236.430 43.49	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4823.925         45.07         6.78           4823.925         33.39         6.78           7236.430         43.49         15.17	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4823.925         45.07         6.78         51.85           4823.925         33.39         6.78         40.17           7236.430         43.49         15.17         58.66	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4823.925         45.07         6.78         51.85         74.00           4823.925         33.39         6.78         40.17         54.00           7236.430         43.49         15.17         58.66         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4823.925         45.07         6.78         51.85         74.00         -22.15           4823.925         33.39         6.78         40.17         54.00         -13.83           7236.430         43.49         15.17         58.66         74.00         -15.34	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4823.925         45.07         6.78         51.85         74.00         -22.15         peak           4823.925         33.39         6.78         40.17         54.00         -13.83         AVG           7236.430         43.49         15.17         58.66         74.00         -15.34         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           4823.925         45.07         6.78         51.85         74.00         -22.15         peak           4823.925         33.39         6.78         40.17         54.00         -13.83         AVG           7236.430         43.49         15.17         58.66         74.00         -15.34         peak

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# Horizontal

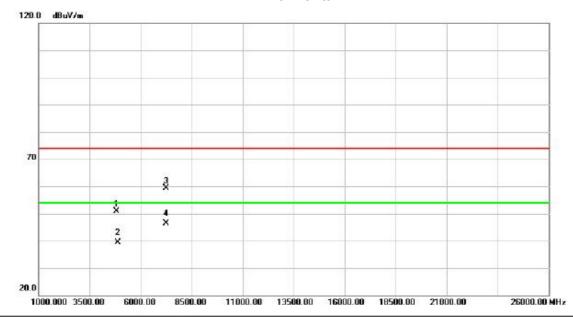


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.78	31.02	55.80	74.00	-18.20	peak	
2		2390.000	13.24	31.02	44.26	54.00	-9.74	AVG	
3	Х	2411.250	65.10	31.12	96.22	74.00	22.22	peak	NO LIMIT
4	*	2411.250	48.70	31.12	79.82	54.00	25.82	AVG	NO LIMIT

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# Horizontal



No.	Mk	. Fre	q.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MH	z	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.02	25	44.09	6.78	50.87	74.00	-23.13	peak	
2		4824.02	25	32.68	6.78	39.46	54.00	-14.54	AVG	
3		7236.40	05	44.13	15.17	59.30	74.00	-14.70	peak	
4	*	7236.40	05	31.21	15.17	46.38	54.00	-7.62	AVG	

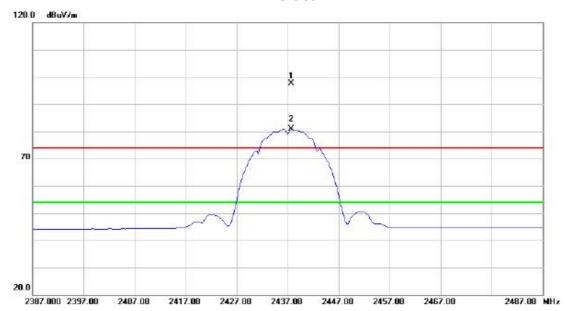
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Orthogonal Axis: X

Test Mode: TX B MODE 2437MHz- Printed Antenna

# Vertical

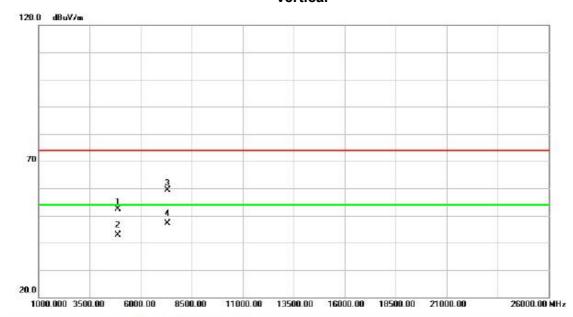


No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2437.750	66.26	31.25	97.51	74.00	23.51	peak	NO LIMIT	
2	*	2437.750	49.56	31.25	80.81	54.00	26.81	AVG	NO LIMIT	

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# Vertical

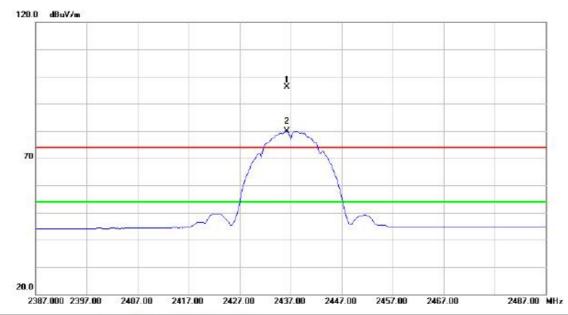


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4873.980	45.68	6.78	52.46	74.00	-21.54	peak	
	4873.980	36.03	6.78	42.81	54.00	-11.19	AVG	
	7311.130	43.82	15.57	59.39	74.00	-14.61	peak	
*	7311.130	31.64	15.57	47.21	54.00	-6.79	AVG	
		MHz 4873.980 4873.980 7311.130	Mk. Freq. Level  MHz dBuV  4873.980 45.68  4873.980 36.03  7311.130 43.82	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4873.980         45.68         6.78           4873.980         36.03         6.78           7311.130         43.82         15.57	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4873.980         45.68         6.78         52.46           4873.980         36.03         6.78         42.81           7311.130         43.82         15.57         59.39	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4873.980         45.68         6.78         52.46         74.00           4873.980         36.03         6.78         42.81         54.00           7311.130         43.82         15.57         59.39         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4873.980         45.68         6.78         52.46         74.00         -21.54           4873.980         36.03         6.78         42.81         54.00         -11.19           7311.130         43.82         15.57         59.39         74.00         -14.61	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4873.980         45.68         6.78         52.46         74.00         -21.54         peak           4873.980         36.03         6.78         42.81         54.00         -11.19         AVG           7311.130         43.82         15.57         59.39         74.00         -14.61         peak

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# Horizontal

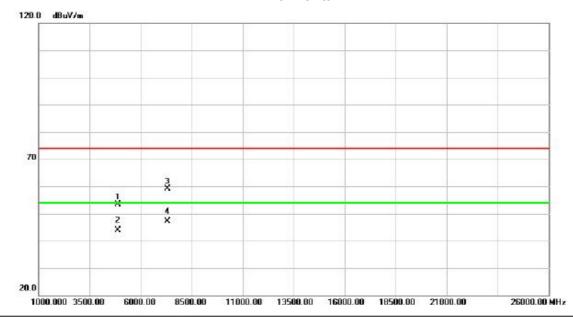


No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	36.250	64.78	31.24	96.02	74.00	22.02	peak	NO LIMIT	
2	*	24	36.250	48.75	31.24	79.99	54.00	25.99	AVG	NO LIMIT	

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# Horizontal

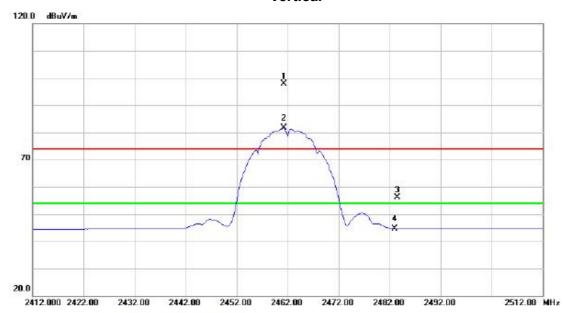


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	46.67	6.78	53.45	74.00	-20.55	peak	
2		4874.000	37.17	6.78	43.95	54.00	-10.05	AVG	
3		7311.295	43.62	15.57	59.19	74.00	-14.81	peak	
4	*	7311.295	31.48	15.57	47.05	54.00	-6.95	AVG	

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# Vertical

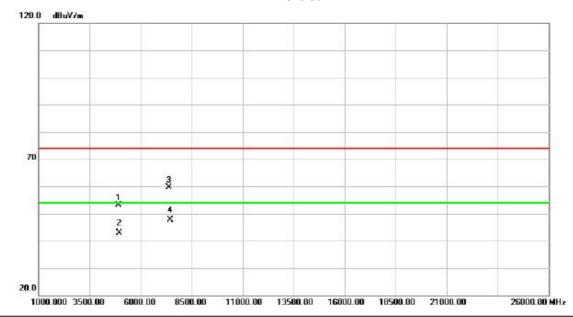


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2461.250	66.46	31.36	97.82	74.00	23.82	peak	NO LIMIT	
2	*	2461.250	50.17	31.36	81.53	54.00	27.53	AVG	NO LIMIT	
3		2483.500	24.60	31.46	56.06	74.00	-17.94	peak		
4		2483.500	13.18	31.46	44.64	54.00	-9.36	AVG		

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# Vertical

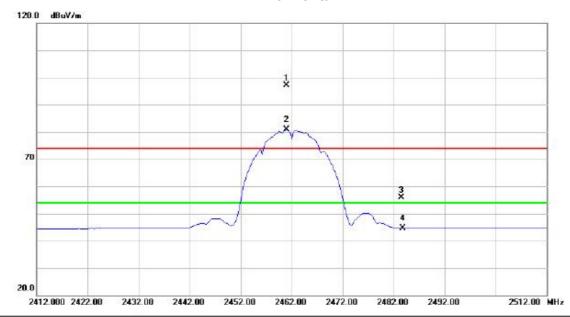


Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4923.955	46.45	6.77	53.22	74.00	-20.78	peak		
	4923.955	36.23	6.77	43.00	54.00	-11.00	AVG		
	7384.313	43.72	15.98	59.70	74.00	-14.30	peak		
*	7384.313	31.76	15.98	47.74	54.00	-6.26	AVG		
		MHz 4923.955 4923.955 7384.313	Mk. Freq. Level  MHz dBuV  4923.955 46.45  4923.955 36.23  7384.313 43.72	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4923.955         46.45         6.77           4923.955         36.23         6.77           7384.313         43.72         15.98	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4923.955         46.45         6.77         53.22           4923.955         36.23         6.77         43.00           7384.313         43.72         15.98         59.70	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4923.955         46.45         6.77         53.22         74.00           4923.955         36.23         6.77         43.00         54.00           7384.313         43.72         15.98         59.70         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4923.955         46.45         6.77         53.22         74.00         -20.78           4923.955         36.23         6.77         43.00         54.00         -11.00           7384.313         43.72         15.98         59.70         74.00         -14.30	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4923.955         46.45         6.77         53.22         74.00         -20.78         peak           4923.955         36.23         6.77         43.00         54.00         -11.00         AVG           7384.313         43.72         15.98         59.70         74.00         -14.30         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           4923.955         46.45         6.77         53.22         74.00         -20.78         peak           4923.955         36.23         6.77         43.00         54.00         -11.00         AVG           7384.313         43.72         15.98         59.70         74.00         -14.30         peak

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# Horizontal

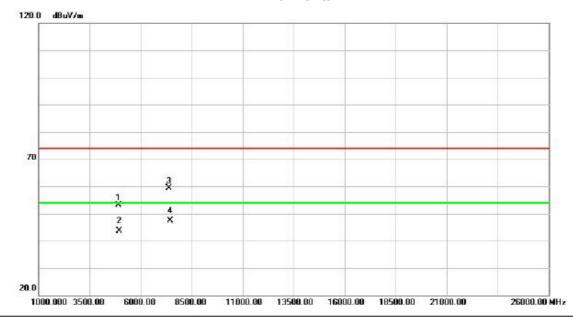


No.	Mi	Κ.	Freq.	Level	Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	246	61.000	65.75	31.36	97.11	74.00	23.11	peak	NO LIMIT	
2	*	246	61.000	49.52	31.36	80.88	54.00	26.88	AVG	NO LIMIT	
3		248	83.500	24.50	31.46	55.96	74.00	-18.04	peak		
4		248	83.500	13.22	31.46	44.68	54.00	-9.32	AVG		

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# Horizontal

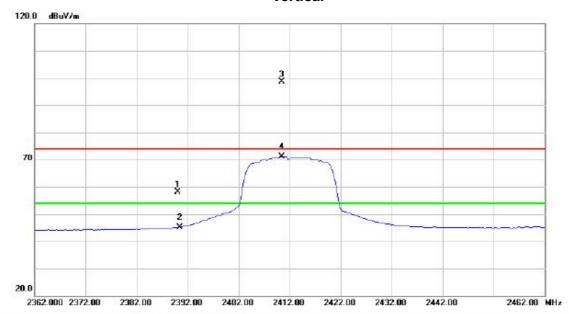


Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4923.980	46.47	6.77	53.24	74.00	-20.76	peak		
	4923.980	36.94	6.77	43.71	54.00	-10.29	AVG		
	7385.837	43.38	15.98	59.36	74.00	-14.64	peak		
*	7385.837	31.32	15.98	47.30	54.00	-6.70	AVG		
		MHz 4923.980 4923.980 7385.837	Mk. Freq. Level  MHz dBuV  4923.980 46.47  4923.980 36.94  7385.837 43.38	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4923.980         46.47         6.77           4923.980         36.94         6.77           7385.837         43.38         15.98	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4923.980         46.47         6.77         53.24           4923.980         36.94         6.77         43.71           7385.837         43.38         15.98         59.36	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4923.980         46.47         6.77         53.24         74.00           4923.980         36.94         6.77         43.71         54.00           7385.837         43.38         15.98         59.36         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4923.980         46.47         6.77         53.24         74.00         -20.76           4923.980         36.94         6.77         43.71         54.00         -10.29           7385.837         43.38         15.98         59.36         74.00         -14.64	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4923.980         46.47         6.77         53.24         74.00         -20.76         peak           4923.980         36.94         6.77         43.71         54.00         -10.29         AVG           7385.837         43.38         15.98         59.36         74.00         -14.64         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           4923.980         46.47         6.77         53.24         74.00         -20.76         peak           4923.980         36.94         6.77         43.71         54.00         -10.29         AVG           7385.837         43.38         15.98         59.36         74.00         -14.64         peak

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## Vertical

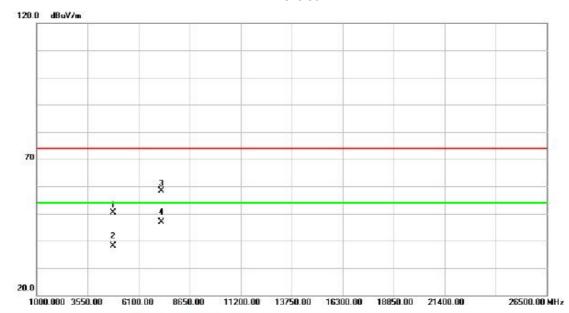


No.	M	k. Fre	q.	Reading Level	Correct	Measure- ment	Limit	Margin			
		MH	z	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.0	00	27.20	31.02	58.22	74.00	-15.78	peak		
2		2390.0	00	14.22	31.02	45.24	54.00	-8.76	AVG		
3	*	2410.5	00	67.51	31.12	98.63	74.00	24.63	peak	NO LIMIT	
4	Х	2410.5	00	40.13	31.12	71.25	54.00	17.25	AVG	NO LIMIT	
		12-42-13-21-2-			0.000.000.00	40000000		4000000			

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# Vertical

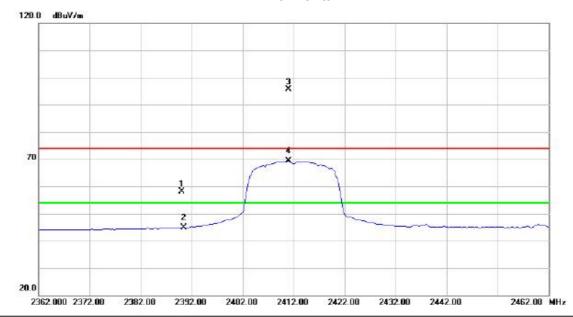


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4823.375	43.49	6.78	50.27	74.00	-23.73	peak		
	4823.375	31.40	6.78	38.18	54.00	-15.82	AVG		
	7236.570	43.16	15.17	58.33	74.00	-15.67	peak		
*	7236.570	31.68	15.17	46.85	54.00	-7.15	AVG		
		MHz 4823.375 4823.375 7236.570	Mk. Freq. Level  MHz dBuV  4823.375 43.49  4823.375 31.40  7236.570 43.16	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4823.375         43.49         6.78           4823.375         31.40         6.78           7236.570         43.16         15.17	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4823.375         43.49         6.78         50.27           4823.375         31.40         6.78         38.18           7236.570         43.16         15.17         58.33	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4823.375         43.49         6.78         50.27         74.00           4823.375         31.40         6.78         38.18         54.00           7236.570         43.16         15.17         58.33         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           4823.375         43.49         6.78         50.27         74.00         -23.73           4823.375         31.40         6.78         38.18         54.00         -15.82           7236.570         43.16         15.17         58.33         74.00         -15.67	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4823.375         43.49         6.78         50.27         74.00         -23.73         peak           4823.375         31.40         6.78         38.18         54.00         -15.82         AVG           7236.570         43.16         15.17         58.33         74.00         -15.67         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB         Detector         Comment           4823.375         43.49         6.78         50.27         74.00         -23.73         peak           4823.375         31.40         6.78         38.18         54.00         -15.82         AVG           7236.570         43.16         15.17         58.33         74.00         -15.67         peak

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# Horizontal

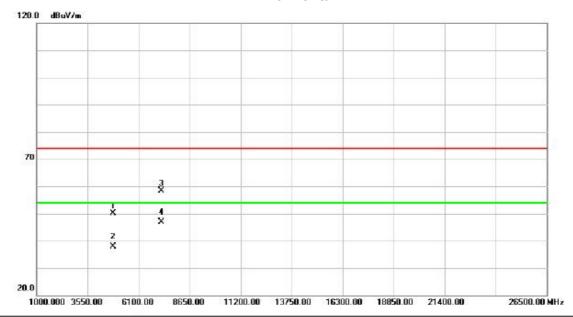


No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	27.20	31.02	58.22	74.00	-15.78	peak		
2		2390.000	13.83	31.02	44.85	54.00	-9.15	AVG		
3	*	2411.000	64.62	31.12	95.74	74.00	21.74	peak	NO LIMIT	
4	X	2411.000	38.21	31.12	69.33	54.00	15.33	AVG	NO LIMIT	

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# Horizontal

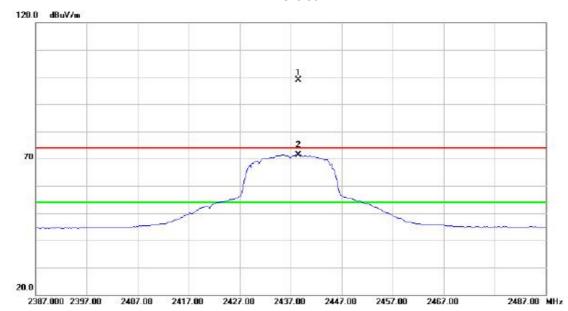


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4824.590	43.47	6.78	50.25	74.00	-23.75	peak		
2		4824.590	31.20	6.78	37.98	54.00	-16.02	AVG		
3		7236.330	43.15	15.17	58.32	74.00	-15.68	peak		
4	*	7236.330	31.70	15.17	46.87	54.00	-7.13	AVG		

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# Vertical

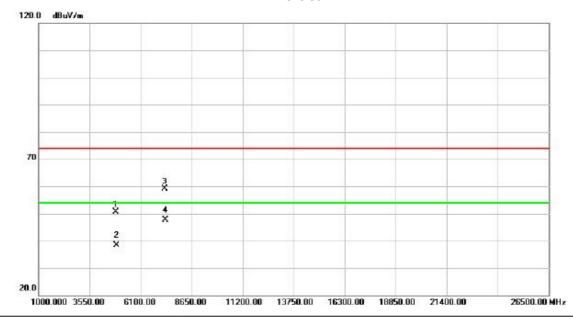


No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	24	38.500	67.70	31.25	98.95	74.00	24.95	peak	NO LIMIT	
2	X	24	38.500	40.17	31.25	71.42	54.00	17.42	AVG	NO LIMIT	

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# Vertical

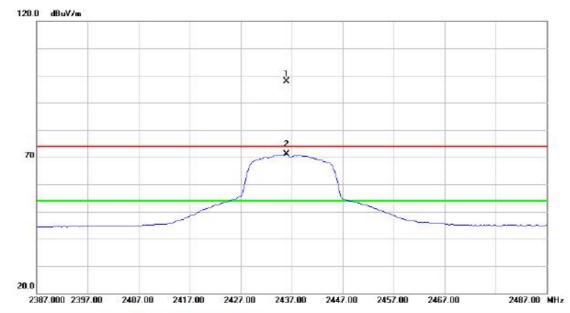


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.663	43.73	6.78	50.51	74.00	-23.49	peak		
2		4873.663	31.55	6.78	38.33	54.00	-15.67	AVG		
3		7311.038	43.61	15.57	59.18	74.00	-14.82	peak		
4	*	7311.038	32.00	15.57	47.57	54.00	-6.43	AVG		

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# Horizontal

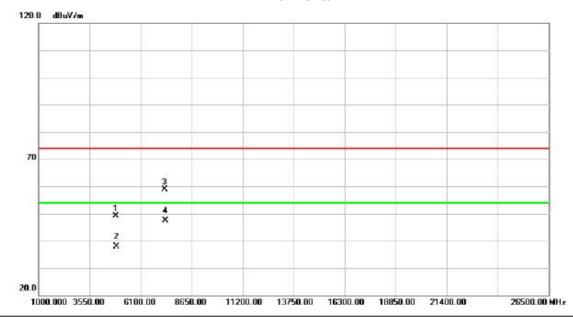


No.	M	k. I	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2436	6.000	66.56	31.24	97.80	74.00	23.80	peak	NO LIMIT	
2	X	2436	6.000	39.82	31.24	71.06	54.00	17.06	AVG	NO LIMIT	

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# Horizontal

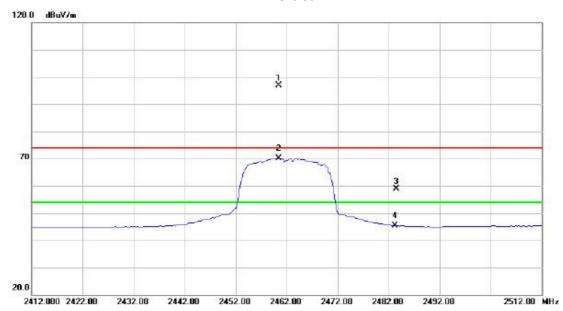


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4872.137	42.29	6.78	49.07	74.00	-24.93	peak		
2		4872.137	31.11	6.78	37.89	54.00	-16.11	AVG		
3		7311.275	43.41	15.57	58.98	74.00	-15.02	peak		
4	*	7311.275	31.92	15.57	47.49	54.00	-6.51	AVG		

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# Vertical

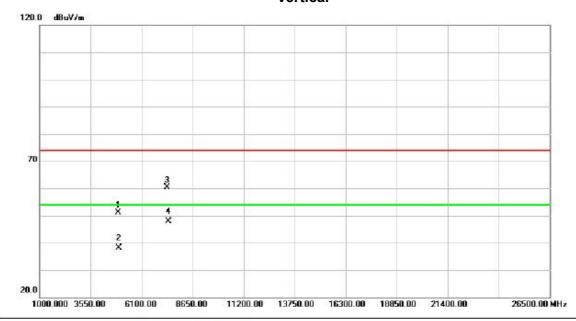


Mi	c. Fi	req.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	M	lHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
*	2460.	500	65.61	31.36	96.97	74.00	22.97	peak	NO LIMIT	
X	2460.	500	38.79	31.36	70.15	54.00	16.15	AVG	NO LIMIT	
	2483.	500	27.40	31.46	58.86	74.00	-15.14	peak		
	2483.	500	13.91	31.46	45.37	54.00	-8.63	AVG		
	*	* 2460. X 2460. 2483.	MHz	Mk. Freq. Level  MHz dBuV  * 2460.500 65.61  X 2460.500 38.79  2483.500 27.40	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           * 2460.500         65.61         31.36           X 2460.500         38.79         31.36           2483.500         27.40         31.46	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           * 2460.500         65.61         31.36         96.97           X 2460.500         38.79         31.36         70.15           2483.500         27.40         31.46         58.86	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           * 2460.500         65.61         31.36         96.97         74.00           X 2460.500         38.79         31.36         70.15         54.00           2483.500         27.40         31.46         58.86         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           * 2460.500         65.61         31.36         96.97         74.00         22.97           X 2460.500         38.79         31.36         70.15         54.00         16.15           2483.500         27.40         31.46         58.86         74.00         -15.14	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           * 2460.500         65.61         31.36         96.97         74.00         22.97         peak           X 2460.500         38.79         31.36         70.15         54.00         16.15         AVG           2483.500         27.40         31.46         58.86         74.00         -15.14         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         Comment           * 2460.500         65.61         31.36         96.97         74.00         22.97         peak         NO LIMIT           X 2460.500         38.79         31.36         70.15         54.00         16.15         AVG         NO LIMIT           2483.500         27.40         31.46         58.86         74.00         -15.14         peak

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# Vertical

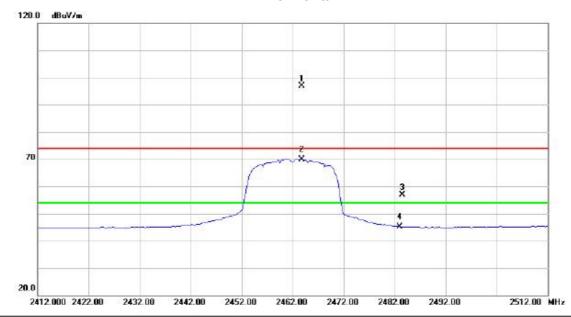


No.	Mk	. Freq.	Level	Factor	ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.840	44.47	6.77	51.24	74.00	-22.76	peak	
2		4923.840	31.45	6.77	38.22	54.00	-15.78	AVG	
3		7386.020	44.44	15.98	60.42	74.00	-13.58	peak	
4	*	7386.020	31.95	15.98	47.93	54.00	-6.07	AVG	

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# Horizontal

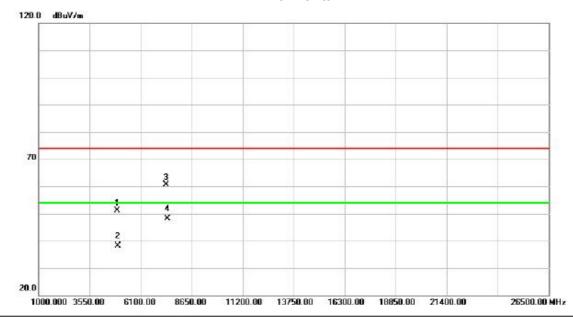


No.	Mk	(. F	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin			
		- 1	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2463	3.750	65.41	31.37	96.78	74.00	22.78	peak	NO LIMIT	
2	X	2463	3.750	38.59	31.37	69.96	54.00	15.96	AVG	NO LIMIT	
3		2483	3.500	25.46	31.46	56.92	74.00	-17.08	peak		
4		2483	3.500	13.71	31.46	45.17	54.00	-8.83	AVG		

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# Horizontal

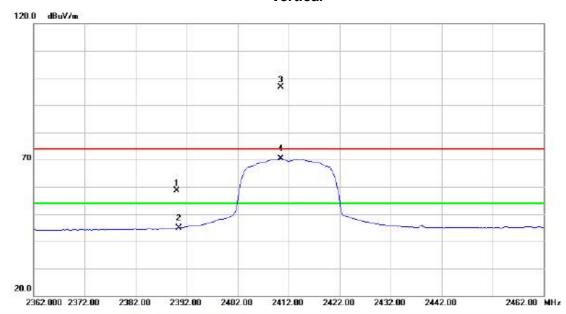


No.	Mk	. Freq		Reading Level	Factor	Measure- ment	Limit	Margin		
		MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.260	0	44.31	6.77	51.08	74.00	-22.92	peak	
2		4924.260	0	31.32	6.77	38.09	54.00	-15.91	AVG	
3		7386.285	5	44.67	15.98	60.65	74.00	-13.35	peak	
4	*	7386.285	5	32.06	15.98	48.04	54.00	-5.96	AVG	

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# Vertical



No.	MI	c. Freq.	Reading Level	Correct	Measure- ment	Limit	Margin	Ĺ		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	27.68	31.02	58.70	74.00	-15.30	peak		
2		2390.000	13.89	31.02	44.91	54.00	-9.09	AVG		
3	*	2410.500	65.57	31.12	96.69	74.00	22.69	peak	NO LIMIT	
4	X	2410.500	39.18	31.12	70.30	54.00	16.30	AVG	NO LIMIT	
		the state of the s	100000000000000000000000000000000000000		928027			-,		

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# Vertical

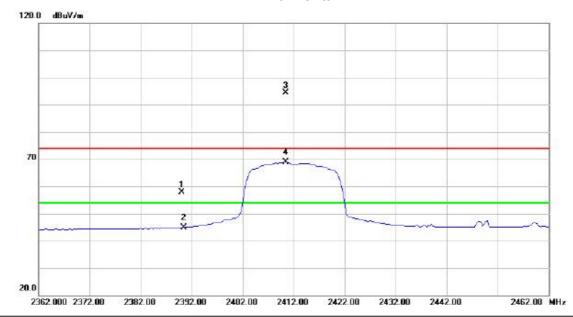


Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4823.913	43.37	6.78	50.15	74.00	-23.85	peak	
	4823.913	30.94	6.78	37.72	54.00	-16.28	AVG	
	7234.775	43.14	15.17	58.31	74.00	-15.69	peak	
*	7234.775	31.39	15.17	46.56	54.00	-7.44	AVG	
		MHz 4823.913 4823.913 7234.775	Mk. Freq. Level  MHz dBuV  4823.913 43.37  4823.913 30.94  7234.775 43.14	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4823.913         43.37         6.78           4823.913         30.94         6.78           7234.775         43.14         15.17	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4823.913         43.37         6.78         50.15           4823.913         30.94         6.78         37.72           7234.775         43.14         15.17         58.31	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4823.913         43.37         6.78         50.15         74.00           4823.913         30.94         6.78         37.72         54.00           7234.775         43.14         15.17         58.31         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4823.913         43.37         6.78         50.15         74.00         -23.85           4823.913         30.94         6.78         37.72         54.00         -16.28           7234.775         43.14         15.17         58.31         74.00         -15.69	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4823.913         43.37         6.78         50.15         74.00         -23.85         peak           4823.913         30.94         6.78         37.72         54.00         -16.28         AVG           7234.775         43.14         15.17         58.31         74.00         -15.69         peak

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# Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	26.85	31.02	57.87	74.00	-16.13	peak		
2		2390.000	13.89	31.02	44.91	54.00	-9.09	AVG		
3	*	2410.500	63.24	31.12	94.36	74.00	20.36	peak	NO LIMIT	Ÿ
4	X	2410.500	37.81	31.12	68.93	54.00	14.93	AVG	NO LIMIT	*

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# Horizontal

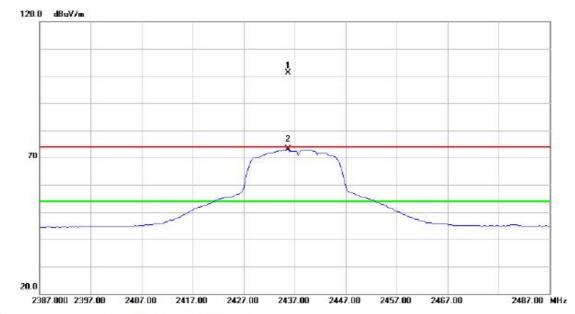


No.	Mk	Freq.	Level Level	Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4821.650	43.35	6.78	50.13	74.00	-23.87	peak	
2		4821.650	31.26	6.78	38.04	54.00	-15.96	AVG	
3		7235.938	43.75	15.17	58.92	74.00	-15.08	peak	
4	*	7235.938	31.37	15.17	46.54	54.00	-7.46	AVG	

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# Vertical

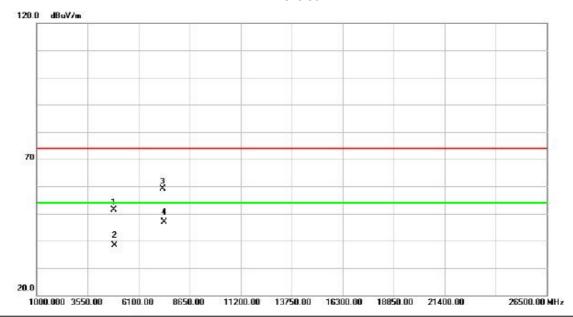


No.	Mi	k. Freq.		Correct Factor	Measure- ment		Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2435.750	69.95	31.24	101.19	74.00	27.19	peak	NO LIMIT	
2	X	2435.750	41.81	31.24	73.05	54.00	19.05	AVG	NO LIMIT	

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# Vertical

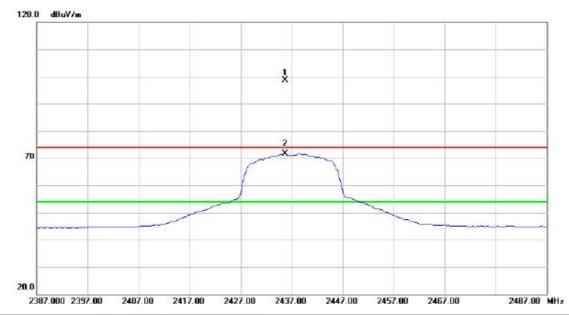


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4872.250	44.64	6.78	51.42	74.00	-22.58	peak	
2		4872.250	31.63	6.78	38.41	54.00	-15.59	AVG	
3		7311.262	43.44	15.57	59.01	74.00	-14.99	peak	
4	*	7311.262	31.36	15.57	46.93	54.00	-7.07	AVG	

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# Horizontal

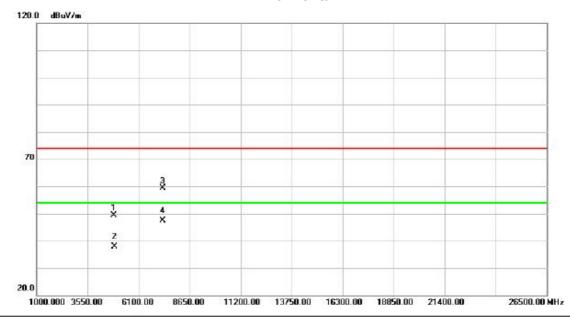


No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment		Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	243	35.750	67.46	31.24	98.70	74.00	24.70	peak	NO LIMIT	
2	X	243	35.750	40.45	31.24	71.69	54.00	17.69	AVG	NO LIMIT	

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# Horizontal

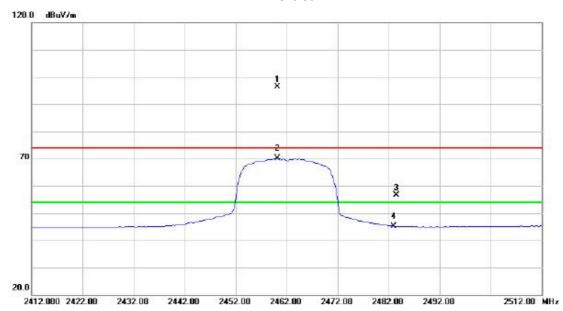


No.	Mk.	Freq.	Level	Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.087	42.65	6.78	49.43	74.00	-24.57	peak	
2		4874.087	31.13	6.78	37.91	54.00	-16.09	AVG	
3		7311.175	43.87	15.57	59.44	74.00	-14.56	peak	
4	*	7311.175	31.93	15.57	47.50	54.00	-6.50	AVG	

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# Vertical



-	MHz	JD. A.C.							
		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
*	2460.250	64.93	31.35	96.28	74.00	22.28	peak	NO LIMIT	
Х	2460.250	38.88	31.35	70.23	54.00	16.23	AVG	NO LIMIT	
	2483.500	25.20	31.46	56.66	74.00	-17.34	peak		
	2483.500	13.79	31.46	45.25	54.00	-8.75	AVG		
	(	2460.250 2460.250 2483.500 2483.500	2460.250     38.88       2483.500     25.20	( 2460.250 38.88 31.35       2483.500 25.20 31.46	( 2460.250     38.88     31.35     70.23       2483.500     25.20     31.46     56.66	( 2460.250 38.88 31.35 70.23 54.00       2483.500 25.20 31.46 56.66 74.00	( 2460.250     38.88     31.35     70.23     54.00     16.23       2483.500     25.20     31.46     56.66     74.00     -17.34	( 2460.250     38.88     31.35     70.23     54.00     16.23     AVG       2483.500     25.20     31.46     56.66     74.00     -17.34     peak	C 2460.250     38.88     31.35     70.23     54.00     16.23     AVG     NO LIMIT       2483.500     25.20     31.46     56.66     74.00     -17.34     peak

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz- Printed Antenna

### Vertical



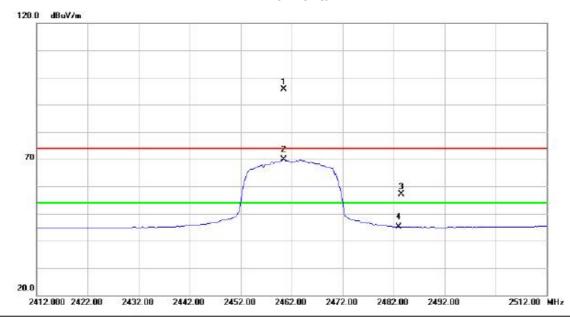
Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4923.000	43.52	6.77	50.29	74.00	-23.71	peak		
	4923.000	31.39	6.77	38.16	54.00	-15.84	AVG		
	7384.837	43.75	15.98	59.73	74.00	-14.27	peak		
*	7384.837	31.96	15.98	47.94	54.00	-6.06	AVG		
		MHz 4923.000 4923.000 7384.837	Mk. Freq. Level  MHz dBuV  4923.000 43.52  4923.000 31.39  7384.837 43.75	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           4923.000         43.52         6.77           4923.000         31.39         6.77           7384.837         43.75         15.98	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           4923.000         43.52         6.77         50.29           4923.000         31.39         6.77         38.16           7384.837         43.75         15.98         59.73	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           4923.000         43.52         6.77         50.29         74.00           4923.000         31.39         6.77         38.16         54.00           7384.837         43.75         15.98         59.73         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4923.000         43.52         6.77         50.29         74.00         -23.71           4923.000         31.39         6.77         38.16         54.00         -15.84           7384.837         43.75         15.98         59.73         74.00         -14.27	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           4923.000         43.52         6.77         50.29         74.00         -23.71         peak           4923.000         31.39         6.77         38.16         54.00         -15.84         AVG           7384.837         43.75         15.98         59.73         74.00         -14.27         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV/m         dB         Detector         Comment           4923.000         43.52         6.77         50.29         74.00         -23.71         peak           4923.000         31.39         6.77         38.16         54.00         -15.84         AVG           7384.837         43.75         15.98         59.73         74.00         -14.27         peak

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz- Printed Antenna

### Horizontal



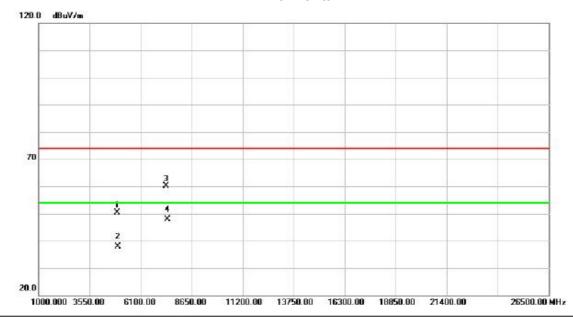
No.	Mi	(. F	req.	Reading Level	Factor	Measure- ment	Limit	Margin			
		١	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2460	.500	64.16	31.36	95.52	74.00	21.52	peak	NO LIMIT	
2	X	2460	.500	38.42	31.36	69.78	54.00	15.78	AVG	NO LIMIT	
3		2483	.500	25.58	31.46	57.04	74.00	-16.96	peak		
4		2483	.500	13.67	31.46	45.13	54.00	-8.87	AVG		

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz- Printed Antenna

### Horizontal



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4923.600	43.64	6.77	50.41	74.00	-23.59	peak		
2		4923.600	31.15	6.77	37.92	54.00	-16.08	AVG		
3		7386.800	44.27	15.98	60.25	74.00	-13.75	peak		
4	*	7386.800	31.87	15.98	47.85	54.00	-6.15	AVG		

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ATTACHMENT E - BANDWIDTH

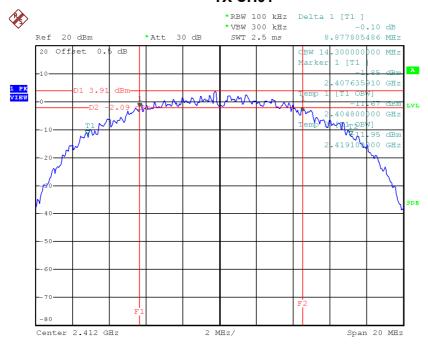
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# Test Mode: TX B Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.88	14.30	500	Complies
2437	9.18	14.30	500	Complies
2462	9.18	14.35	500	Complies

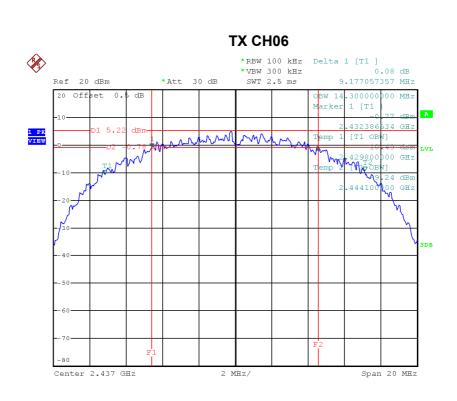
### TX CH01



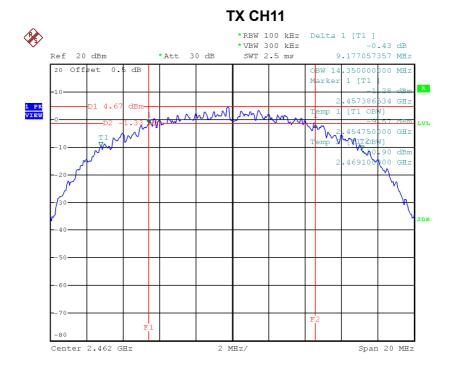
Date: 22.DEC.2014 14:29:17

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Date: 22.DEC.2014 14:37:39



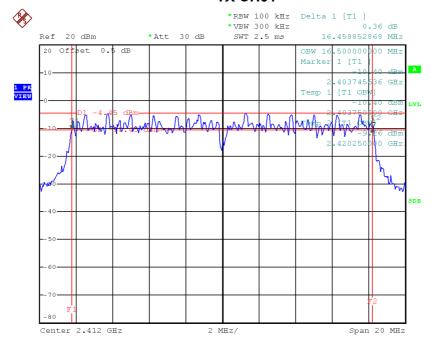
Date: 22.DEC.2014 14:45:11



# Test Mode: TX G Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min . Limit (kHz)	Test Result
2412	16.46	16.50	500	Complies
2437	16.36	16.45	500	Complies
2462	16.31	16.45	500	Complies

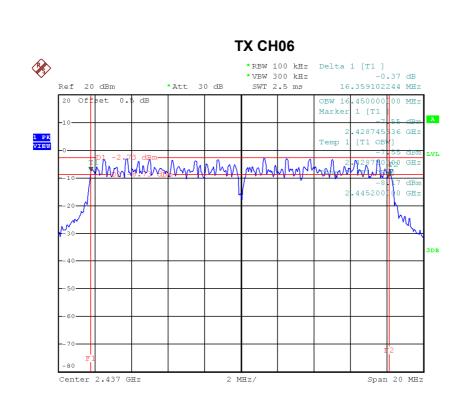
### **TX CH01**



Date: 22.DEC.2014 14:33:46

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Date: 22.DEC.2014 14:41:11

# **TX CH11** \*RBW 100 kHz Delta 1 [T1 ] **P**S Ref 20 dBm \*Att 30 dB SWT 2.5 ms 16.309226933 MHz 20 Offset 0. dB OBW 16.450000 00 MHz Marker 1 [T1 .453795511 GHz [T1 OBW] 1 PK VIEW 0 GH2 Center 2.462 GHz Span 20 MHz

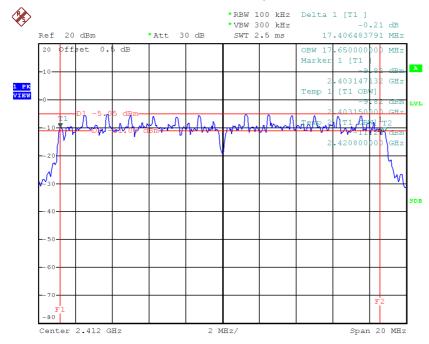
Date: 22.DEC.2014 14:47:10



# Test Mode: TX N-20MHz Mode\_CH01/06/11

Fre quency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.41	17.65	500	Complies
2437	16.91	17.65	500	Complies
2462	17.51	17.65	500	Complies

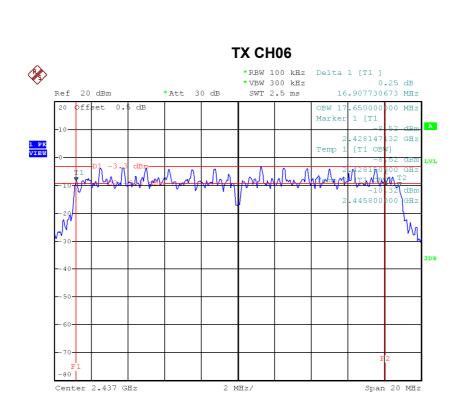
### **TX CH01**



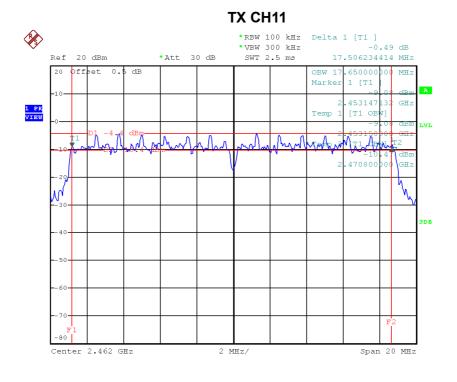
Date: 22.DEC.2014 14:35:52

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Date: 22.DEC.2014 14:43:12



Date: 22.DEC.2014 14:49:08



ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

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# Test Mode :TX B Mode\_CH01/06/11

	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
	2412	15.45	0.04	30.00	1.00	Complies
	2437	16.87	0.05	30.00	1.00	Complies
Ī	2462	16.58	0.05	30.00	1.00	Complies

## Test Mode :TX G Mode\_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	15.43	0.03	30.00	1.00	Complies
2437	17.23	0.05	30.00	1.00	Complies
2462	16.82	0.05	30.00	1.00	Complies

# Test Mode :TX N20 Mode\_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.63	0.05	30.00	1.00	Complies
2437	18.47	0.07	30.00	1.00	Complies
2462	18.16	0.07	30.00	1.00	Complies

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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

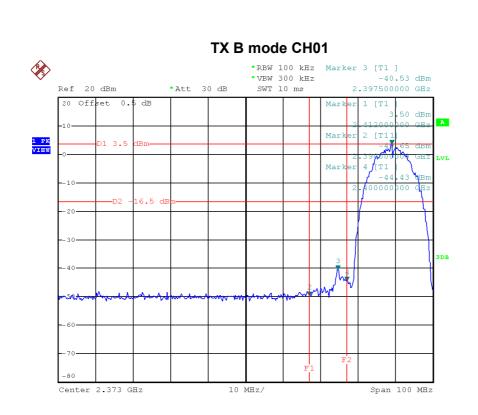
Report No.: BTL-FCCP-2-1501068 Page 125 of 144



est Mode :	TX B Mode

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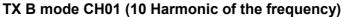


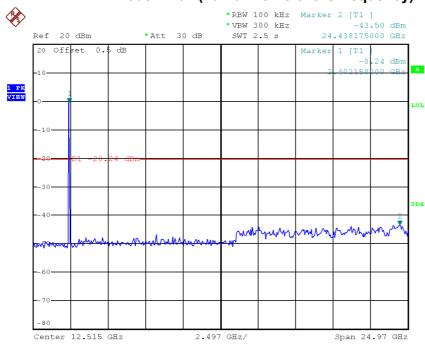
Date: 22.DEC.2014 14:31:02

# \*RBW 100 kHz Marker 3 [T1 ] \*VBW 300 kHz -47.64 dBm Ref 20 dBm \*Att 30 dB SWT 10 ms 2.495750000 GHz 20 Offset 0.5 dB Marker 1 [T1 4.4 dBm 4.40 dBm

Date: 22.DEC.2014 14:45:28

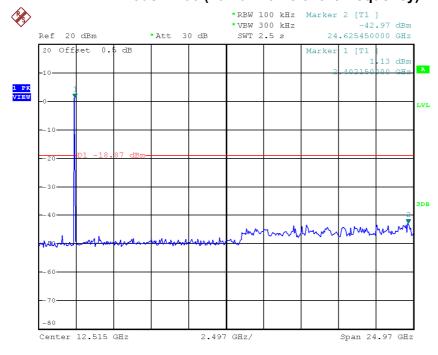






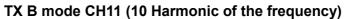
Date: 22.DEC.2014 14:28:59

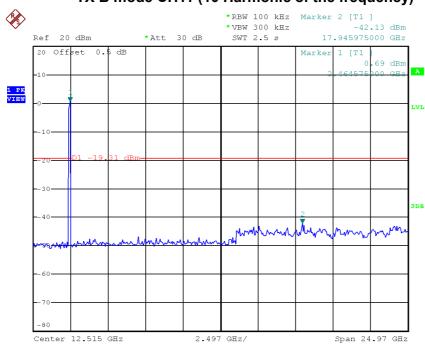
# TX B mode CH06 (10 Harmonic of the frequency)



Date: 22.DEC.2014 14:37:21







Date: 22.DEC.2014 14:44:50

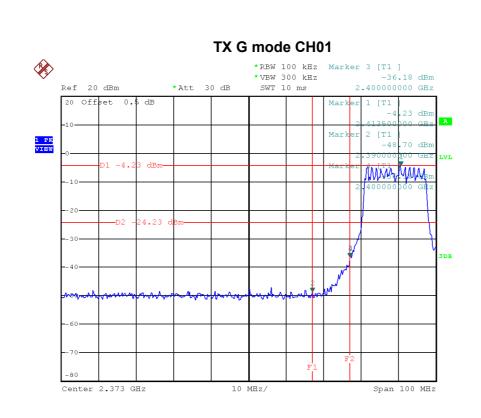
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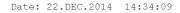


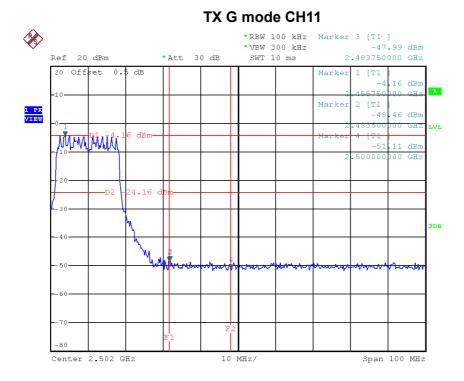
est Mode :	TX G Mode		

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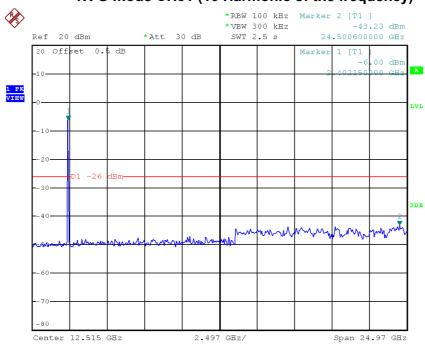




Date: 22.DEC.2014 14:47:28

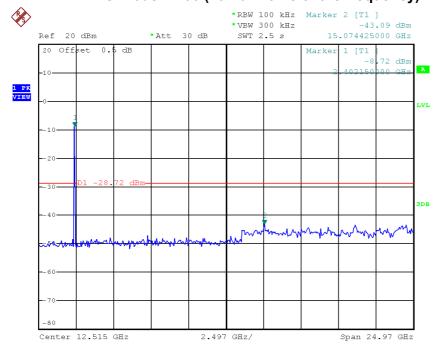






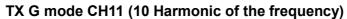
Date: 22.DEC.2014 14:32:57

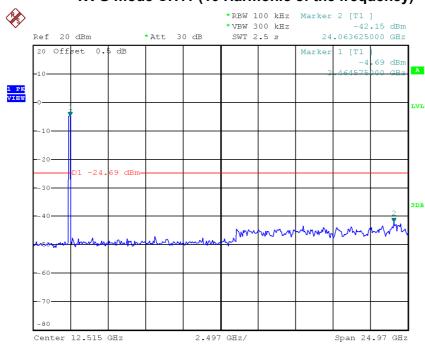
# TX G mode CH06 (10 Harmonic of the frequency)



Date: 22.DEC.2014 14:40:38







Date: 22.DEC.2014 14:46:52

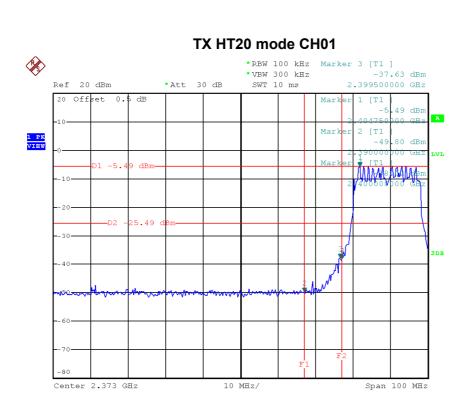
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est Mode :	TX N-20M Mode

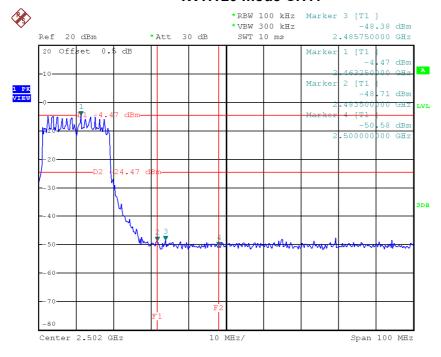
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Date: 22.DEC.2014 14:36:14

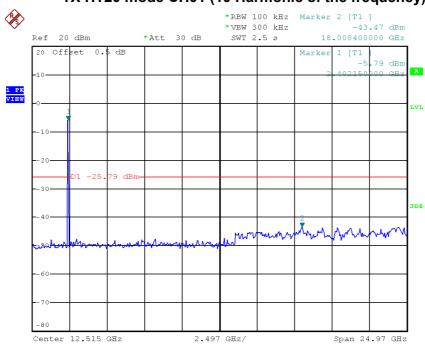
### TX HT20 mode CH11



Date: 22.DEC.2014 14:49:26

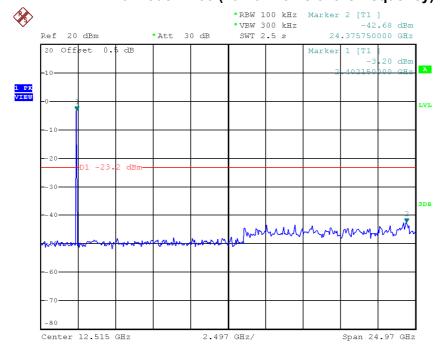






Date: 22.DEC.2014 14:35:26

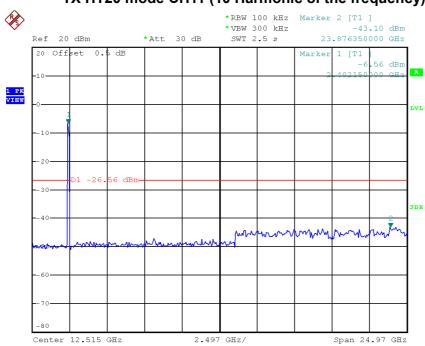
## TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 22.DEC.2014 14:42:53







Date: 22.DEC.2014 14:48:32

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ATTACHMENT H - POWER SPECTRAL DENSITY				

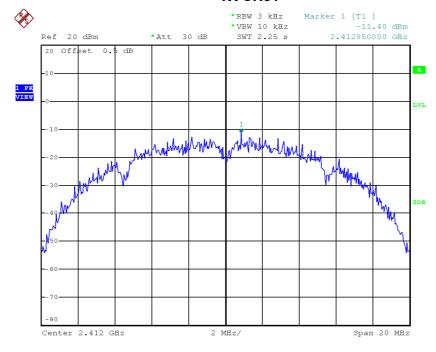
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# Test Mode: TX B Mode\_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.40	0.07	8.00	Complies
2437	-10.02	0.10	8.00	Complies
2462	-10.73	0.08	8.00	Complies

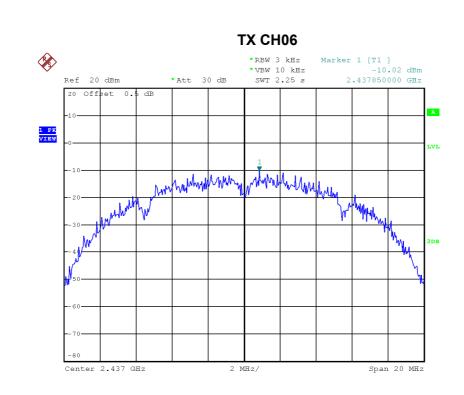
### TX CH01



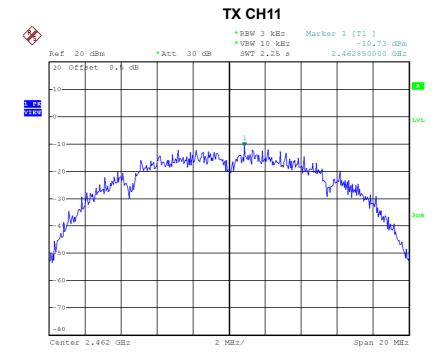
Date: 22.DEC.2014 14:31:24

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Date: 22.DEC.2014 14:38:06



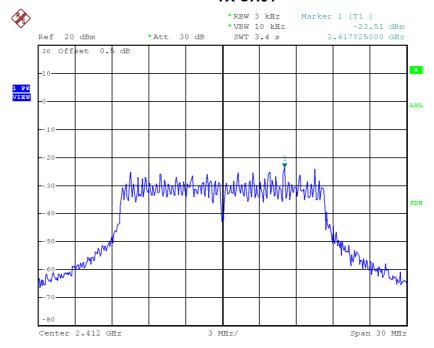
Date: 22.DEC.2014 14:45:49



# Test Mode :TX G Mode\_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-23.51	0.00	8.00	Complies
2437	-21.72	0.01	8.00	Complies
2462	-23.69	0.00	8.00	Complies

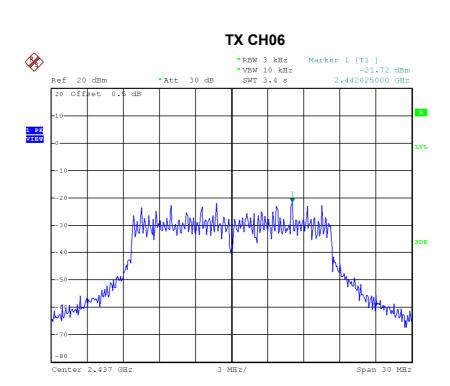
### TX CH01



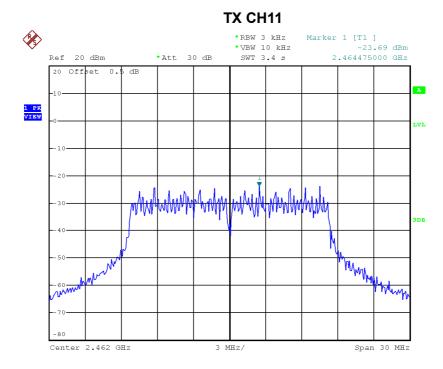
Date: 22.DEC.2014 14:34:32

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#### Date: 22.DEC.2014 14:41:27



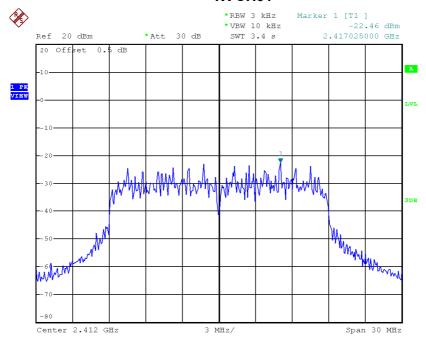
Date: 22.DEC.2014 14:47:49



Test Mode: TX N-20M Mode\_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-22.46	0.01	8.00	Complies
2437	-20.69	0.01	8.00	Complies
2462	-22.13	0.01	8.00	Complies

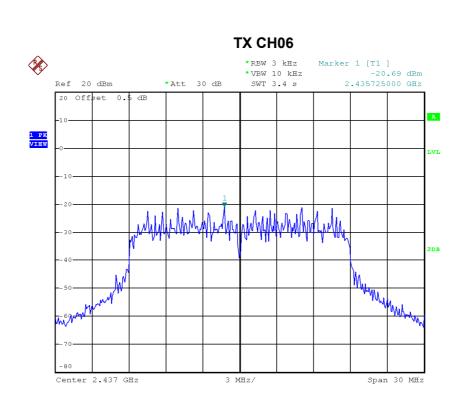
### **TX CH01**



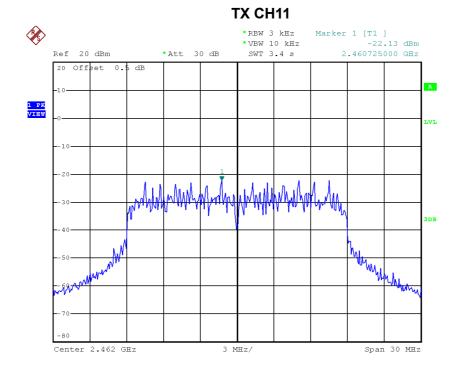
Date: 22.DEC.2014 14:36:38

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Date: 22.DEC.2014 14:43:55



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