



Change

FCC Radio Test Report FCC ID: V7TU3V1

This report concerns (chec	k one): ⊠Original Grant □Class I Change □Class I
Project No. Equipment Model Name Applicant Address	 : 1707C141 : 300Mbps Mini Wireless N Adapter : U3 : SHENZHEN TENDA TECHNOLOGY CO.,LTD : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Receipt Date of Test Issued Date Tested by	: Jul. 18, 2017 : Jul. 18, 2017 ~ Jul. 27, 2017 : Jul. 31, 2017 : BTL Inc.
Testing Engineer	: Shawn Xiao)
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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-1-1707C141	Original Issue.	Jul. 31, 2017

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1. CERTIFICATION

Equipment : 300Mbps Mini Wireless N Adapter

Brand Name: Tenda Model Name: U3

Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD

Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,

Shenzhen, China. 518052

Date of Test : Jul. 18, 2017 ~ Jul. 27, 2017

Test Sample: Engineering Sample

Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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-1-1707C141) 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): FCC Part15 (15.247), Subpart C				
Standard(s) Section	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)	AVG Output Power	PASS		
15.247(e)	Power Spectral Density	PASS		
15.203	Antenna Requirement	PASS		
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Ι	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Η	3.78	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.10	
DG-CB03	CISER	200MHz ~ 1,000MHz	Η	4.06	
		1GHz~18GHz	V	3.12	
		1GHz~1	1GHz~18GHz	Η	3.68
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	300Mbps Mini Wireless N Adapter			
Brand Name	Tenda	Tenda		
Model Name	U3			
Model Difference	N/A			
	Operation Frequency	2412~2462 MHz		
Product Description	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM		
	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 300 Mbps		
	AVG Output Power (Max.)	802.11b: 8.93dBm 802.11g: 8.84dBm 802.11n(20MHz): 8.91dBm 802.11n(40MHz): 8.89dBm		
Power Source	Supplied from PC USB port.			
Power Rating	DC 5V			

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) CH03 – CH09 for 802.11n(40MHz)							
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	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	1
2	N/A	N/A	PCB	N/A	1

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

4.

The worst case as follow:

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT 1)	-
802.11g	V (ANT 1)	-
802.11n(20MHz)	-	V (ANT 1+ANT 2)
802.11n(40MHz)	-	V (ANT 1+ANT 2)

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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 N-40MHZ MODE CHANNEL 03/06/09	
Mode 5	TX MODE	

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 5	TX MODE	

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		
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09		

For Band Edge 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	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

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6dB Spectrum Bandwidth		
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	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Maximum AVG Output Power		
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	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Power Spectral Density		
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	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

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 (13Mbps)

802.11n HT40 mode : BPSK (27Mbps)

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

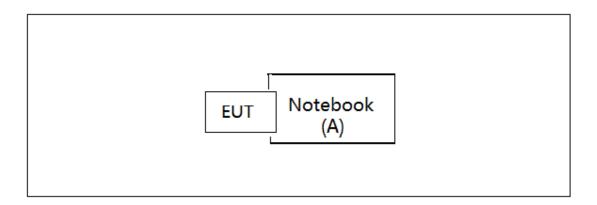
Test software version		MP TOOL	
Frequency (MHz)	2412	2437	2462
802.11b	18	18	18
802.11g	28	27	27
802.11n (20MHz)	25	24	24
Frequency	2422	2437	2452
802.11n (40MHz)	26	25	26

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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	Series No.
Α	Notebook	Lenovo	INSPIRON 1420	DOC	JX193A01SDC2

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 -0.50	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

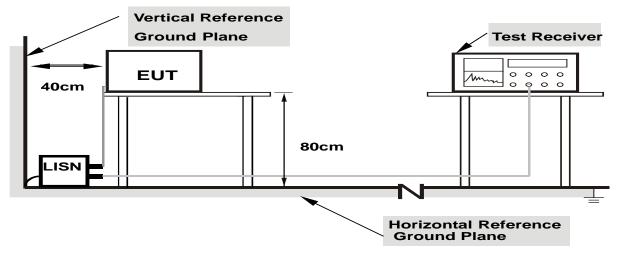
No deviation

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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 placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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

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

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Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1MHz / 3MHz for Peak,
(Emission in restricted band)	1MHz / 1/T for Average

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 measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter 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 measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-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 0.8m or 1.5m; 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

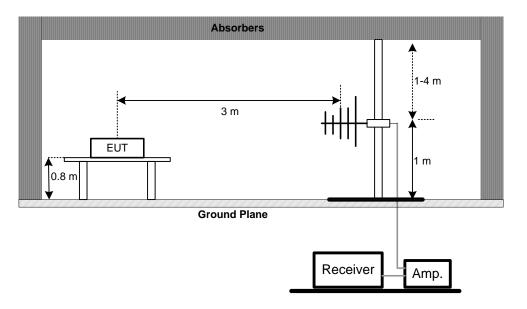
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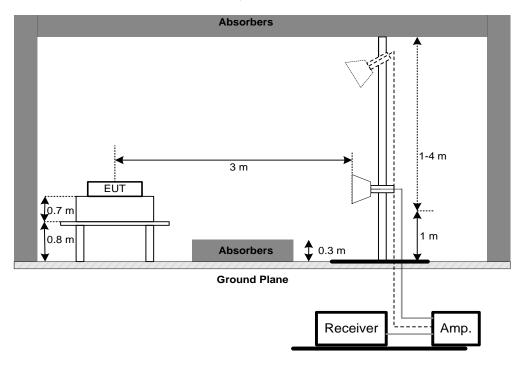


4.2.4 TEST SETUP

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



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

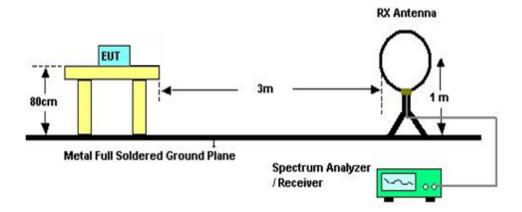


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(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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 (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	Frequency Range (MHz)	Result		
15.247(a)(2)	2400-2483.5	PASS		

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 was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM AVG 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 and FCC KDB 662911 D01 Multiple Transmitter Output.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 OWEL WICKE

6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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 device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that 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.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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	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 was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018		
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A		
6	Cable		RG223	12m	Oct. 20, 2017		

	Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018	
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017	
3	Receiver	Agilent	N9038A	MY5213003 9	Sep. 04, 2017	
4	Cable	emci	LMR-400(30MH z-1GHz)(8m+5m)	N/A	Jun. 26, 2018	
5	Controller	СТ	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF78020841 6	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
8	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018	
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018	
10	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018	
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018	
12	Antenna	EM	EM-6876-1	230	Jul. 07, 2018	
13	Controller	MF	MF-7802	MF78020841 6	N/A	
14	Cable	emci	EMC104-SM-S M-12000(12m)	N/A	Jun. 26, 2018	

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	6dB Bandwidth Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017					

AVG Output Power Measurement										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018					
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018					

Antenna Conducted Spurious Emission Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017				

Power Spectral Density Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017				

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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10. EUT TEST PHOTO





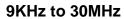


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Radiated Measurement Photos







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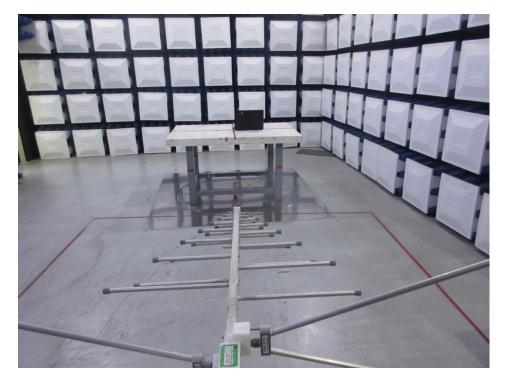




Radiated Measurement Photos

30MHz to 1000MHz





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Radiated Measurement Photos

Above 1000MHz





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ATTACHMENT A - CONDUCTED EMISSION							

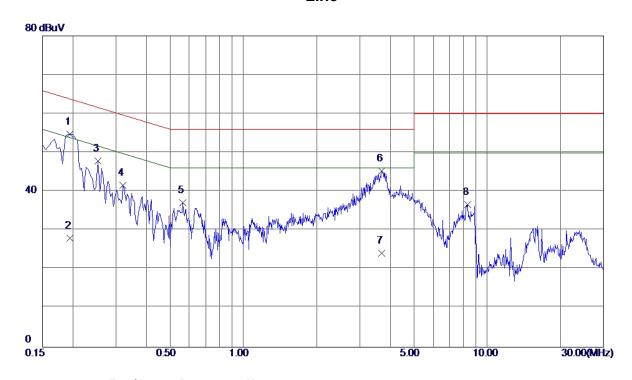
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Test Mode: TX MODE

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1949	45.04	9. 76	54.80	63.83	-9.03	Peak	
2	0. 1949	18. 30	9. 76	28. 06	53.83	-25.77	AVG	
3	0. 2535	38. 09	9. 76	47.85	61.64	-13. 79	Peak	
4	0.3209	31. 79	9.77	41. 56	59.68	-18. 12	Peak	
5	0.5639	27. 28	9.81	37.09	56.00	-18.91	Peak	
6	3.6825	35. 24	10. 01	45. 25	56.00	-10.75	Peak	
7	3.6825	14. 20	10.01	24. 21	46.00	-21.79	AVG	
8	8. 2950	26. 47	10. 24	36.71	60.00	-23. 29	Peak	

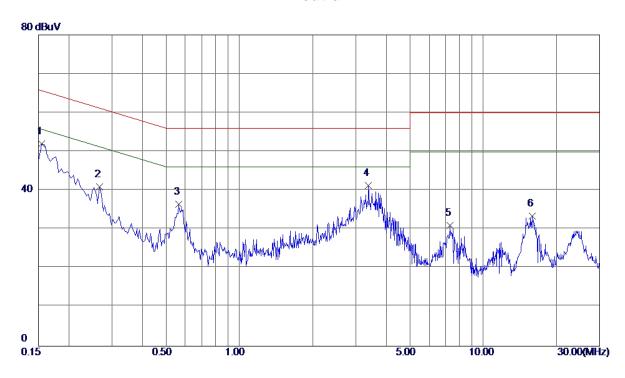
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Test Mode : TX MODE

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1545	42.39	9. 68	52. 07	65.75	-13.68	Peak	
2	0.2670	31. 33	9. 67	41.00	61. 21	-20. 21	Peak	
3	0. 5639	26.71	9.71	36. 42	56.00	-19. 58	Peak	
4	3. 3855	31. 36	9. 92	41. 28	56.00	-14.72	Peak	
5	7. 2960	20.90	10. 12	31. 02	60.00	-28.98	Peak	
6	15. 8595	22. 85	10.65	33. 50	60.00	-26. 50	Peak	

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

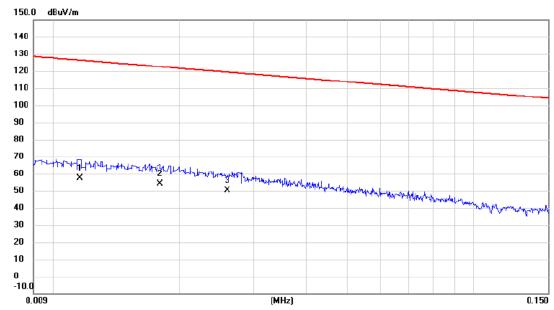
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Test Mode: TX B MODE CHANNEL 01

Ant 0°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.012	33.38	24.02	57.40	126.32	-68.92	AVG	
2 *	0.018	30.64	23.64	54.28	122.50	-68.22	AVG	
3	0.026	27.43	22.78	50.21	119.31	-69.10	AVG	

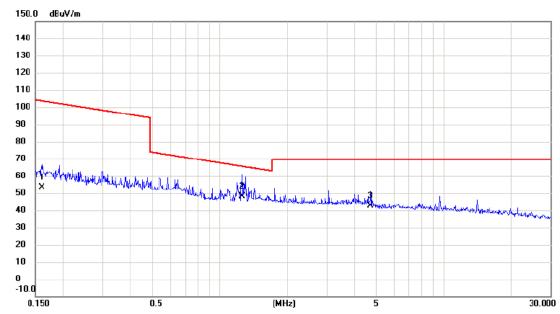
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Test Mode: TX B MODE CHANNEL 01

Ant 0°



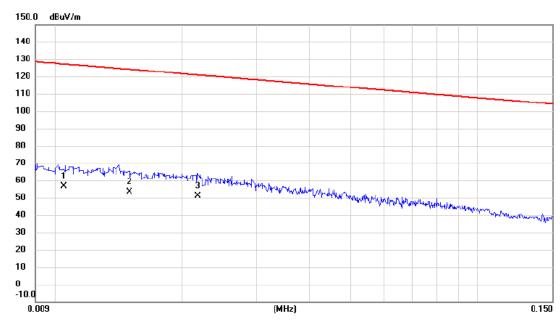
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.161	34.60	18.73	53.33	103.49	-50.16	AVG	
2 *	1.255	30.51	17.74	48.25	65.63	-17.38	QP	
3	4.696	25.40	17.31	42.71	69.54	-26.83	QP	

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Ant 90°



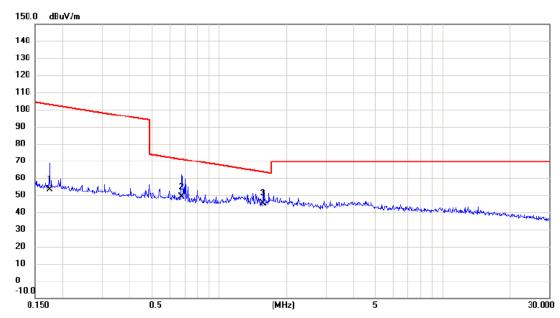
No. Mk.	Freq.		Correct Factor	Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.011	32.69	24.09	56.78	127.18	-70.40	AVG	
2	0.015	29.60	23.82	53.42	124.08	-70.66	AVG	
3 *	0.022	27.57	23.30	50.87	120.84	-69.97	AVG	

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Ant 90°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.174	34.80	18.72	53.52	102.80	-49.28	AVG	
2	0.679	30.50	18.44	48.94	70.97	-22.03	QP	
3 *	1.577	27.60	17.81	45.41	63.65	-18.24	QP	

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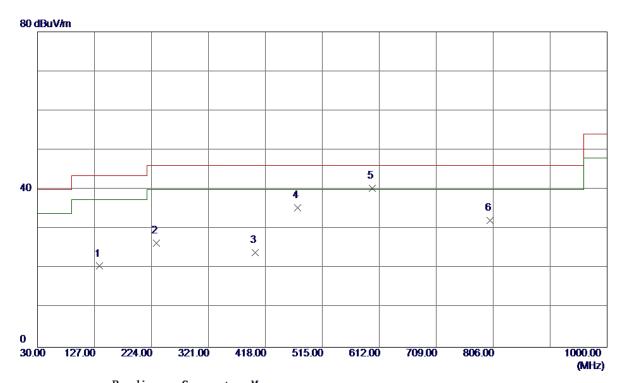
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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Vertical



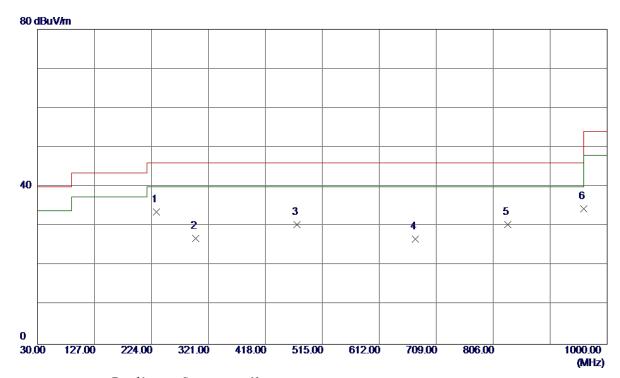
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	135. 7300	34.99	-14.43	20. 56	43.50	-22.94	Peak	
2	232.7300	40.63	-14. 19	26. 44	46.00	-19. 56	Peak	
3	400.5400	35. 38	-11. 34	24.04	46.00	-21.96	Peak	
4	473. 2900	44.73	-9. 37	35. 36	46.00	-10.64	Peak	
5 *	600. 3600	46. 78	-6. 41	40. 37	46.00	-5. 63	Peak	
6	800. 1800	33. 59	-1. 36	32. 23	46.00	-13.77	Peak	

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Horizontal



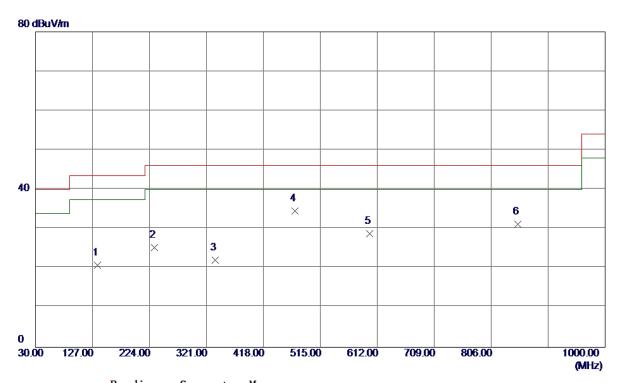
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	232. 7300	47.84	-14. 19	33. 65	46.00	-12.35	Peak	
2	299.6600	39.73	-12.88	26. 85	46.00	-19. 15	Peak	
3	471.3500	39.88	-9.42	30. 46	46.00	-15.54	Peak	
4	673. 1100	31. 53	-4.77	26. 76	46.00	-19.24	Peak	
5	831. 2199	30.88	-0. 51	30. 37	46.00	-15.63	Peak	
6	960. 2300	32. 23	2. 19	34.42	54.00	-19. 58	Peak	

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Vertical



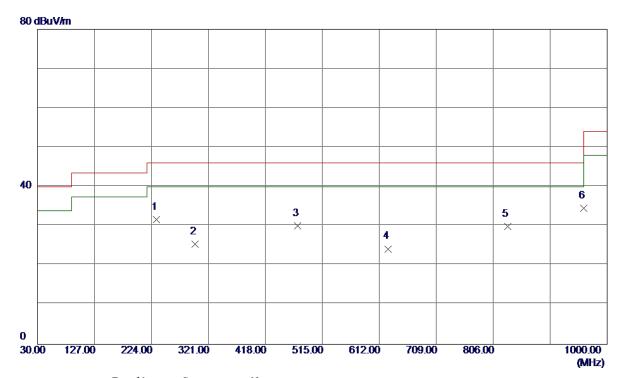
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	135. 7300	35. 17	-14.43	20.74	43.50	-22.76	Peak	
2	232. 7300	39.41	-14. 19	25. 22	46.00	-20.78	Peak	
3	336. 5200	34. 23	-12. 19	22. 04	46.00	-23.96	Peak	
4 *	471. 3500	43.93	-9.42	34.51	46.00	-11.49	Peak	
5	599. 3900	35. 24	-6.44	28. 80	46.00	-17. 20	Peak	
6	851. 5900	31. 13	0. 03	31. 16	46.00	-14.84	Peak	

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Horizontal



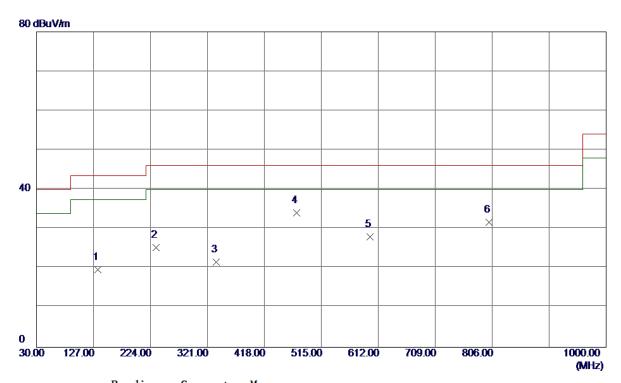
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	232. 7300	45.83	-14. 19	31.64	46.00	-14.36	Peak	
2	298.6900	38. 47	-13.01	25. 46	46.00	-20.54	Peak	
3	473. 2900	39.41	-9. 37	30.04	46.00	-15.96	Peak	
4	627. 5200	30. 14	-5. 90	24. 24	46.00	-21.76	Peak	
5	830. 2500	30. 50	-0. 54	29. 96	46.00	-16. 04	Peak	
6	960. 2300	32. 42	2. 19	34. 61	54.00	-19. 39	Peak	

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Vertical



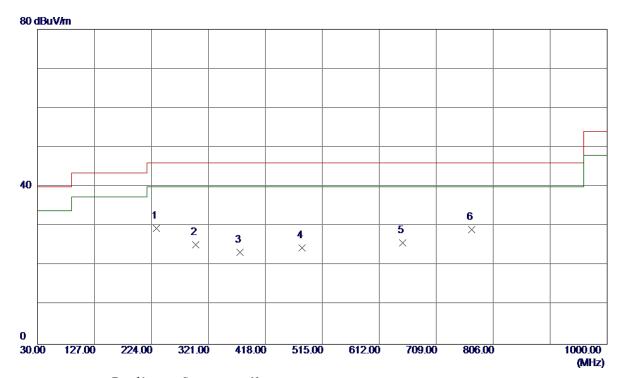
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	134.7600	34. 22	-14.47	19.75	43.50	-23.75	Peak	
2	233. 7000	39. 48	-14. 22	25. 26	46.00	-20.74	Peak	
3	336. 5200	33.86	-12. 19	21.67	46.00	-24.33	Peak	
4 *	473. 2900	43.43	-9. 37	34.06	46.00	-11.94	Peak	
5	598. 4200	34. 51	-6. 46	28. 05	46.00	-17. 95	Peak	
6	800. 1800	33. 08	-1. 36	31. 72	46.00	-14. 28	Peak	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	232. 7300	43. 58	-14. 19	29. 39	46.00	-16. 61	Peak	
2	299.6600	38. 23	-12.88	25. 35	46.00	-20.65	Peak	
3	374. 3500	35. 03	-11.67	23. 36	46.00	-22.64	Peak	
4	480. 0800	33.70	-9. 21	24.49	46.00	-21.51	Peak	
5	651.7700	31. 22	-5.42	25. 80	46.00	-20. 20	Peak	
6	769. 1400	31. 17	-2. 03	29. 14	46.00	-16.86	Peak	

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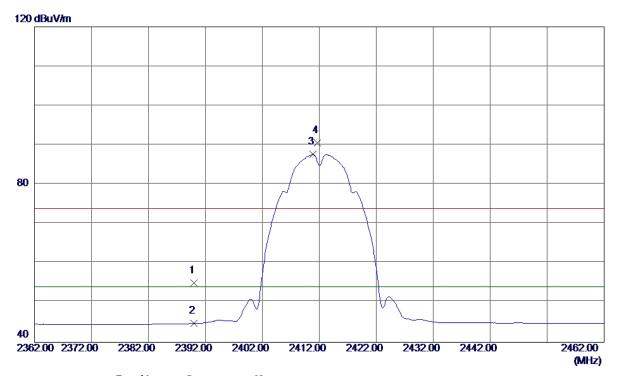
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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Vertical



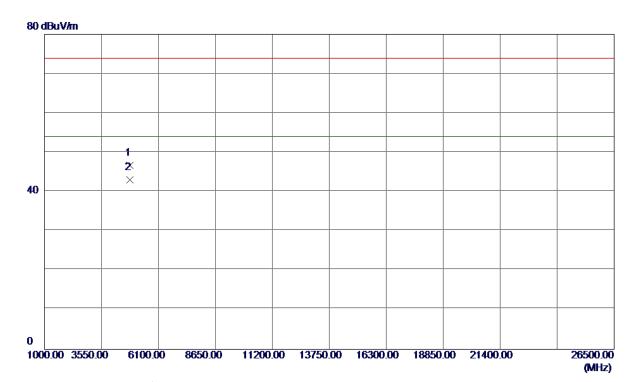
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22. 01	33.06	55. 07	74.00	-18.93	Peak	
2	2390.0000	11.71	33.06	44.77	54.00	-9. 23	AVG	
3 *	2410.9000	54. 50	33. 13	87.63	54.00	33.63	AVG	No Limit
4	2411. 7000	57.47	33. 14	90. 61	74.00	16.61	Peak	No Limit

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Vertical



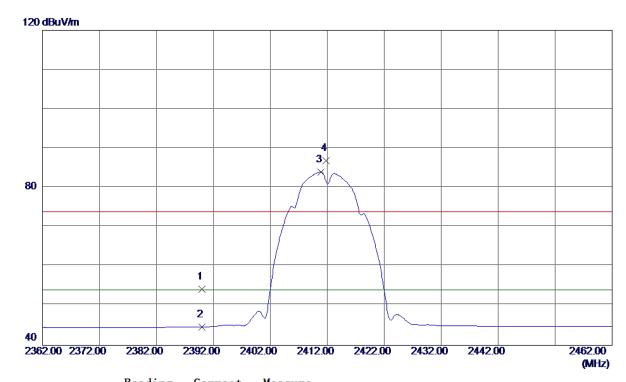
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
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1	4823.8800	40.38	6. 32	46.70	74.00	-27.30	Peak	
2 *	4823. 9650	36. 68	6. 32	43.00	54.00	-11.00	AVG	

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Horizontal



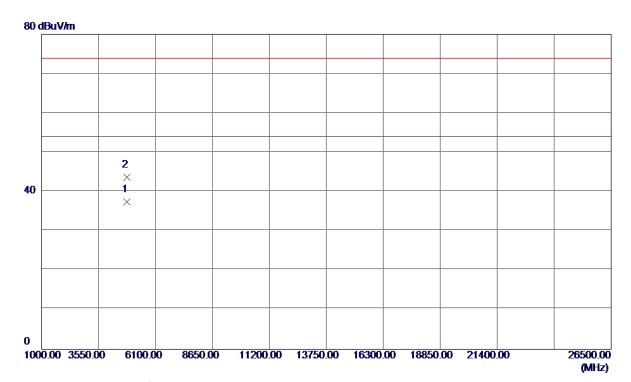
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21. 24	33.06	54. 30	74.00	-19.70	Peak	
2	2390.0000	11.60	33.06	44.66	54.00	-9.34	AVG	
3 *	2410.9000	50.89	33. 13	84. 02	54.00	30.02	AVG	No Limit
4	2411. 8000	53. 68	33. 14	86. 82	74.00	12.82	Peak	No Limit

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Horizontal



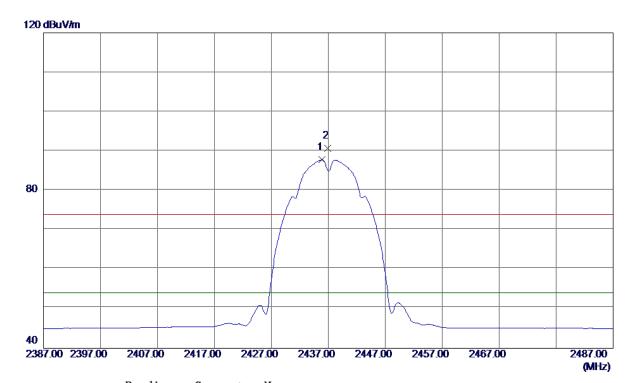
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9600	31. 07	6. 32	37. 39	54.00	-16.61	AVG	
2	4824. 0850	37. 40	6. 32	43. 72	74.00	-30. 28	Peak	

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Vertical



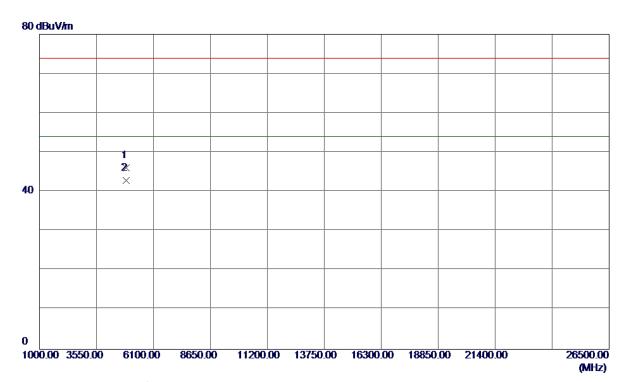
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.9000	54. 58	33. 23	87.81	54.00	33.81	AVG	No Limit
2	2436. 9000	57.46	33. 23	90. 69	74.00	16.69	Peak	No Limit

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Vertical



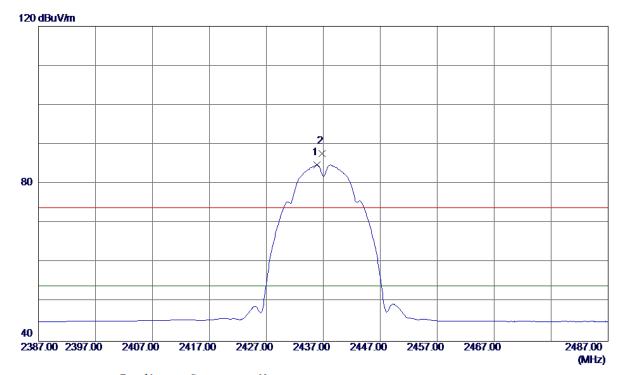
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 9850	39. 59	6. 44	46.03	74.00	-27.97	Peak	
2 *	4874.0400	36. 37	6. 44	42.81	54.00	-11. 19	AVG	

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Horizontal



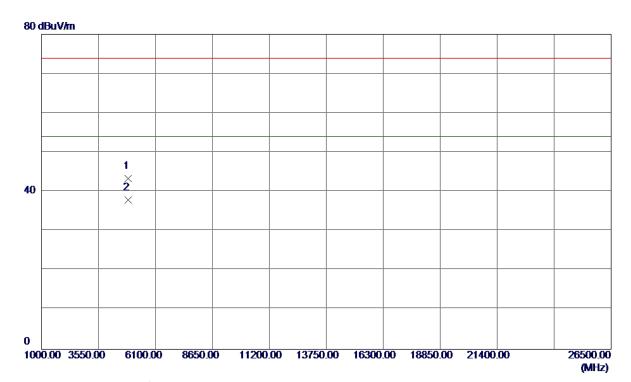
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.9000	51. 53	33. 23	84.76	54.00	30.76	AVG	No Limit
2	2436. 8000	54. 52	33. 23	87. 75	74.00	13.75	Peak	No Limit

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Horizontal



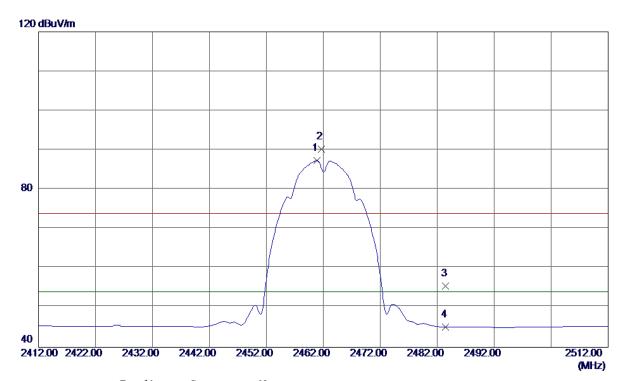
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.7250	36. 99	6. 44	43.43	74.00	-30. 57	Peak	
2 *	4873. 9200	31. 44	6. 44	37.88	54.00	-16. 12	AVG	

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Vertical



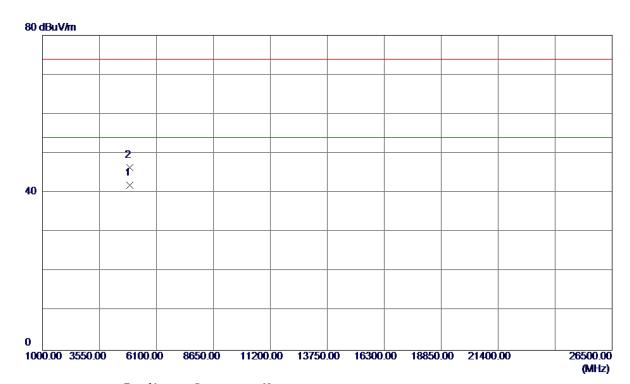
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.9000	54.01	33. 32	87. 33	54.00	33. 33	AVG	No Limit
2	2461.7000	56. 90	33. 33	90. 23	74.00	16. 23	Peak	No Limit
3	2483. 5000	22.06	33.41	55. 47	74.00	-18.53	Peak	
4	2483. 5000	11.66	33. 41	45. 07	54.00	-8. 93	AVG	

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Vertical



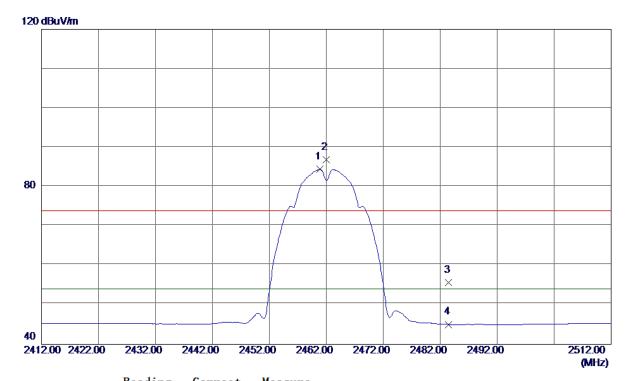
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.9500	35. 32	6. 57	41.89	54.00	-12. 11	AVG	
2	4924. 0350	39. 78	6. 57	46. 35	74.00	-27.65	Peak	

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Horizontal



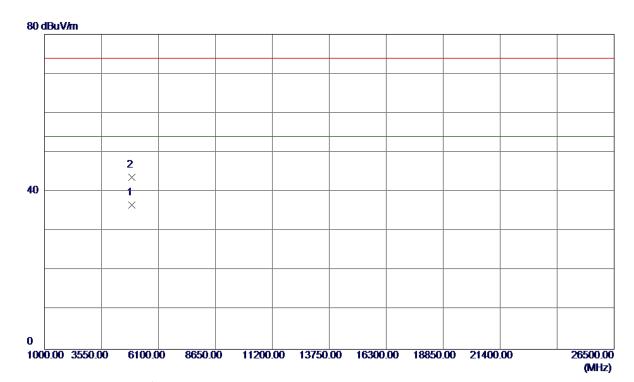
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.9000	51. 13	33. 32	84.45	54.00	30.45	AVG	No Limit
2	2462.0000	53. 59	33. 33	86. 92	74.00	12.92	Peak	No Limit
3	2483. 5000	22. 34	33.41	55. 75	74.00	-18. 25	Peak	
4	2483. 5000	11.63	33.41	45. 04	54.00	-8. 96	AVG	

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Horizontal



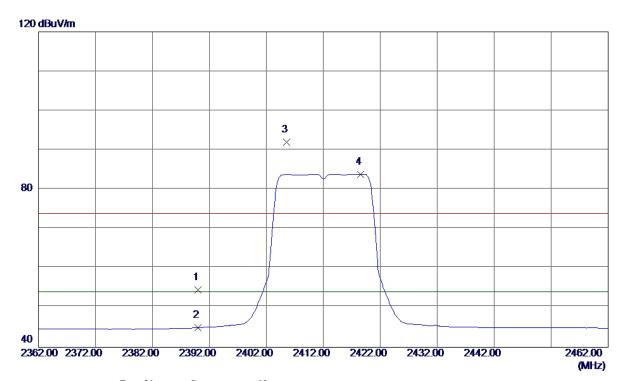
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9950	30.06	6. 57	36. 63	54.00	-17.37	AVG	
2	4924. 0299	37. 08	6. 57	43.65	74.00	-30. 35	Peak	

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Vertical



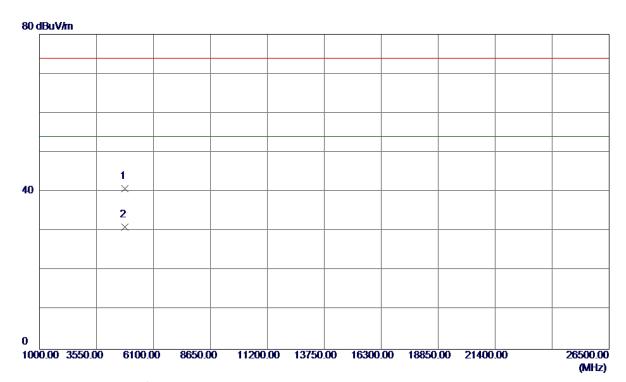
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21. 45	33.06	54. 51	74.00	-19.49	Peak	
2	2390.0000	11. 92	33.06	44.98	54.00	-9.02	AVG	
3	2405.6000	58.83	33. 11	91.94	74.00	17.94	Peak	No Limit
4 *	2418. 6000	50. 74	33. 16	83. 90	54.00	29.90	AVG	No Limit

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Vertical



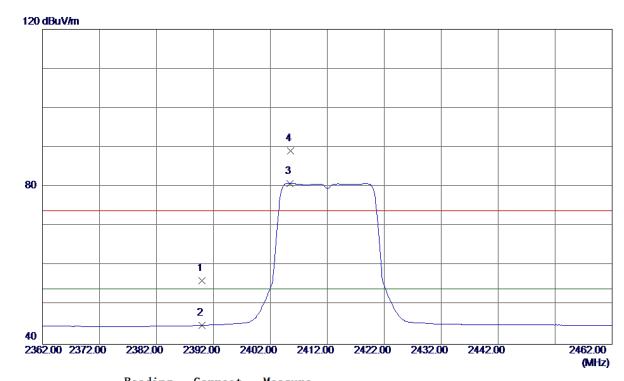
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9550	34.46	6. 32	40.78	74.00	-33. 22	Peak	
2 *	4824.0500	24. 78	6. 32	31. 10	54.00	-22. 90	AVG	

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Horizontal



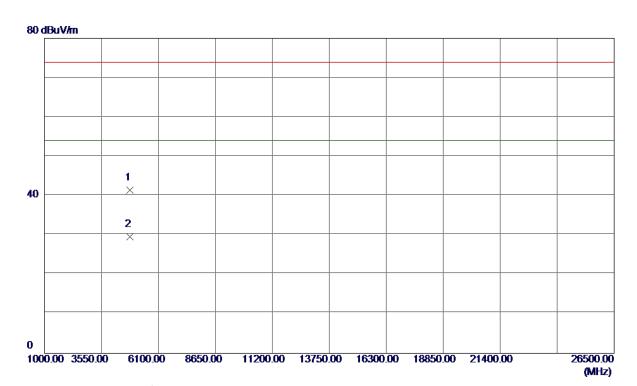
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23. 09	33.06	56. 15	74.00	-17.85	Peak	
2	2390.0000	11.77	33.06	44.83	54.00	-9. 17	AVG	
3 *	2405. 4000	47.71	33. 11	80.82	54.00	26.82	AVG	No Limit
4	2405. 6000	55. 94	33. 11	89. 05	74.00	15. 05	Peak	No Limit

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Horizontal



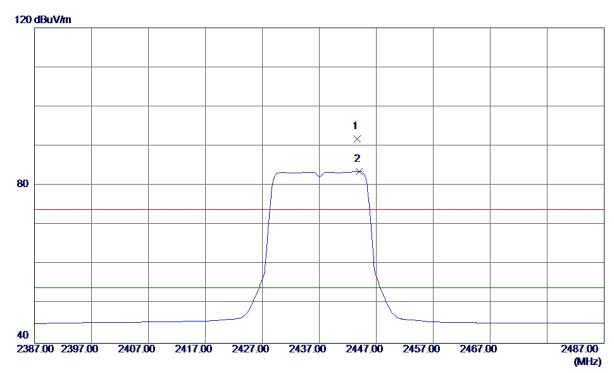
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.3720	35. 06	6. 32	41. 38	74.00	-32.62	Peak	
2 *	4824. 4460	23. 25	6. 32	29. 57	54.00	-24.43	AVG	

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Vertical



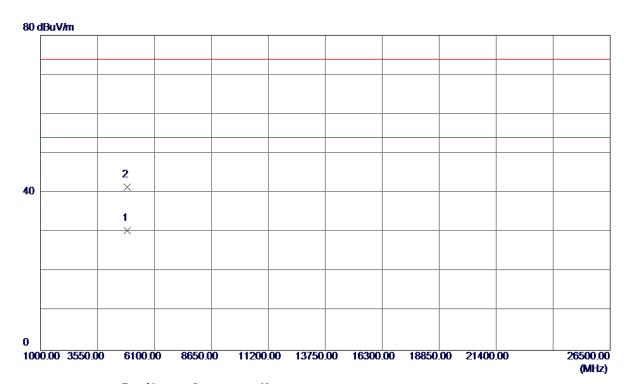
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2443.7000	58. 54	33. 26	91.80	74.00	17.80	Peak	No Limit
2 *	2444.0000	50. 27	33. 26	83. 53	54.00	29. 53	AVG	No Limit

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Vertical



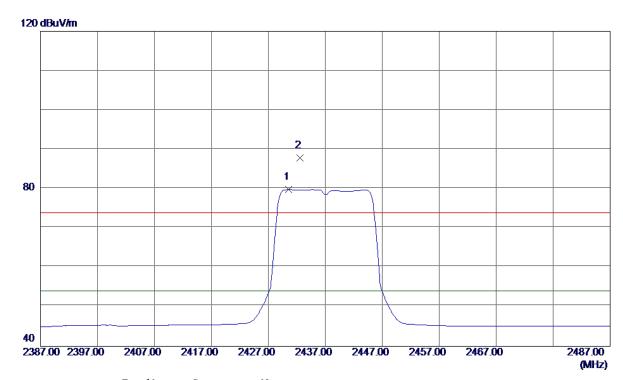
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0780	23.94	6.44	30. 38	54.00	-23.62	AVG	
2	4874. 3540	35. 01	6. 44	41. 45	74.00	-32.55	Peak	

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Horizontal



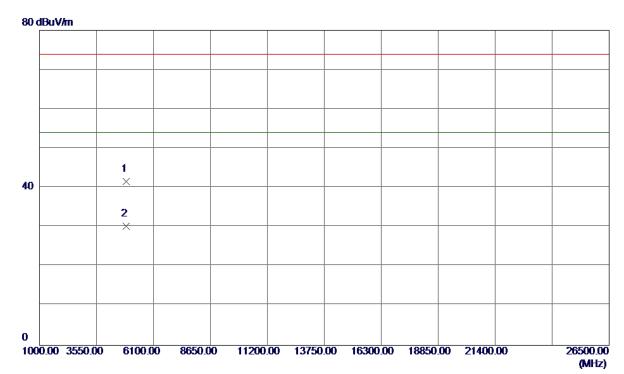
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430.6000	46. 57	33. 21	79. 78	54.00	25. 78	AVG	No Limit
2	2432. 6000	54. 68	33. 22	87. 90	74.00	13.90	Peak	No Limit

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Horizontal



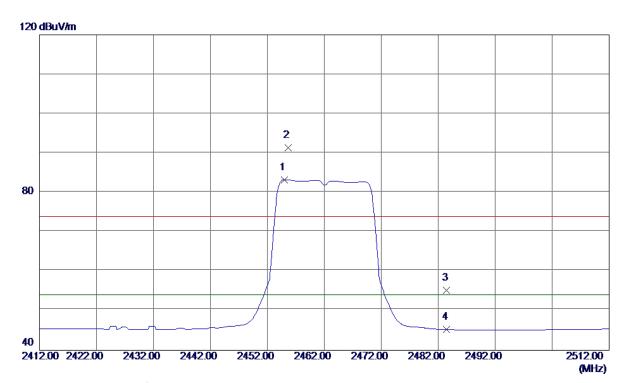
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874. 2519	35. 15	6.44	41. 59	74.00	-32.41	Peak	
2 *	4874. 4860	23. 87	6. 44	30. 31	54. 00	-23. 69	AVG	

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Vertical



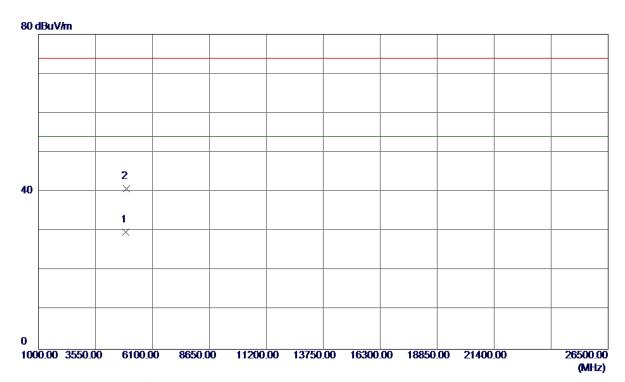
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455.0000	49. 90	33. 30	83. 20	54.00	29. 20	AVG	No Limit
2	2455. 7000	58. 01	33. 30	91. 31	74.00	17. 31	Peak	No Limit
3	2483. 5000	21.86	33. 41	55. 27	74.00	-18.73	Peak	
4	2483. 5000	11.83	33. 41	45. 24	54.00	-8. 76	AVG	

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Vertical



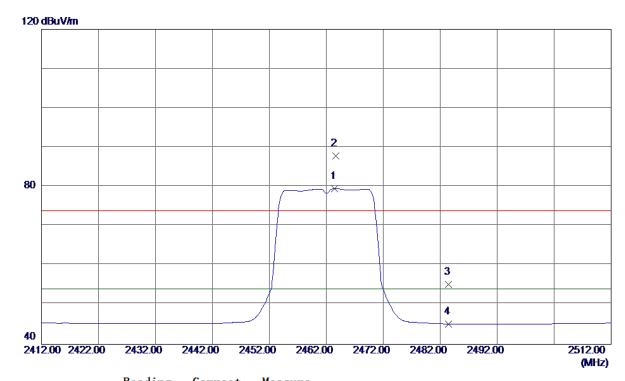
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.7540	23. 18	6. 57	29.75	54.00	-24. 25	AVG	
2	4924. 3350	34. 27	6. 57	40.84	74.00	-33. 16	Peak	

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Horizontal



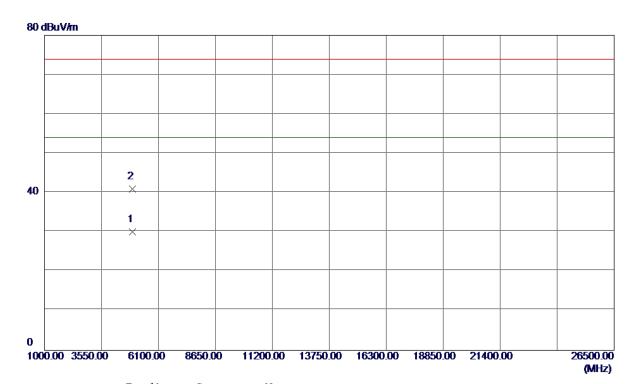
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2463. 5000	46. 18	33. 33	79. 51	54.00	25. 51	AVG	No Limit
2	2463.7000	54.44	33. 33	87.77	74.00	13.77	Peak	No Limit
3	2483. 5000	21.84	33.41	55. 25	74.00	-18.75	Peak	
4	2483. 5000	11.75	33. 41	45. 16	54.00	-8.84	AVG	

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Horizontal



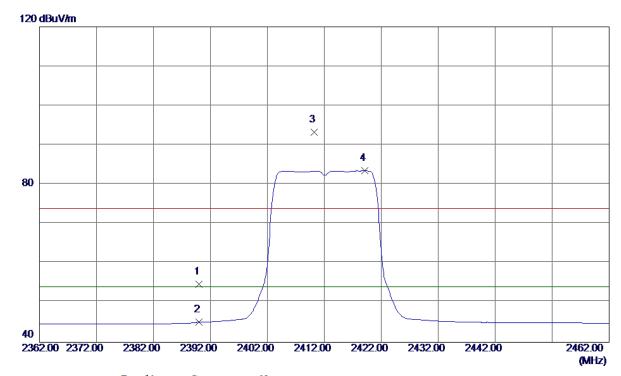
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 3390	23.47	6. 57	30.04	54.00	-23.96	AVG	
2	4924. 4310	34.42	6. 57	40. 99	74.00	-33.01	Peak	

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Vertical



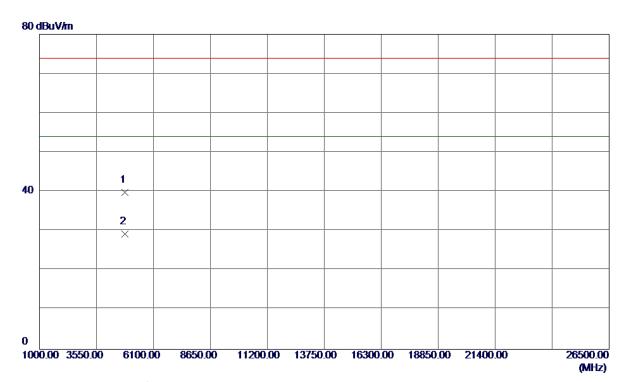
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21.66	33.06	54.72	74.00	-19. 28	Peak	
2	2390.0000	12.01	33.06	45.07	54.00	-8.93	AVG	
3	2410. 2000	60. 10	33. 13	93. 23	74.00	19. 23	Peak	No Limit
4 *	2419. 1000	50. 30	33. 17	83. 47	54.00	29.47	AVG	No Limit

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Vertical



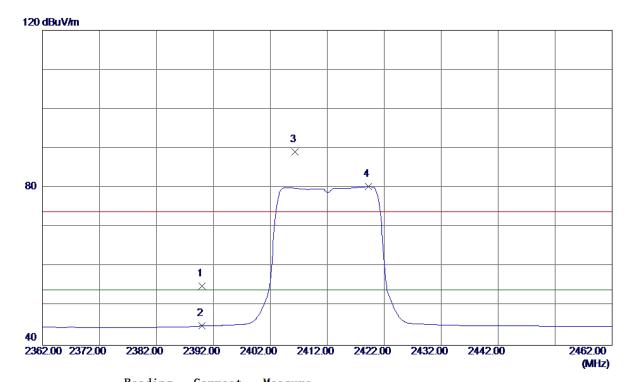
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0250	33. 59	6. 32	39. 91	74.00	-34.09	Peak	
2 *	4824. 1870	23. 00	6. 32	29. 32	54.00	-24.68	AVG	

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Horizontal



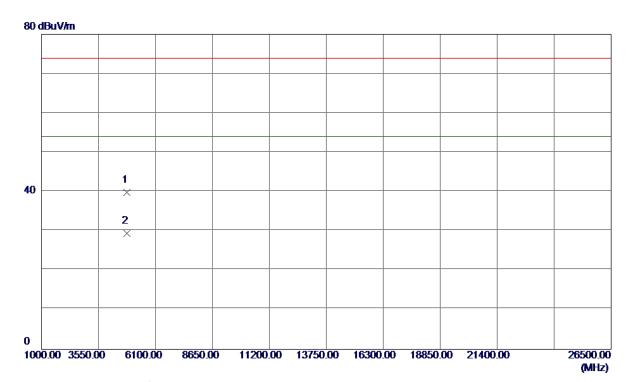
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21.94	33.06	55.00	74.00	-19.00	Peak	
2	2390.0000	11.84	33.06	44.90	54.00	-9. 10	AVG	
3	2406. 3000	56. 05	33. 12	89. 17	74.00	15. 17	Peak	No Limit
4 *	2419. 2000	47. 10	33. 17	80. 27	54.00	26. 27	AVG	No Limit

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Horizontal



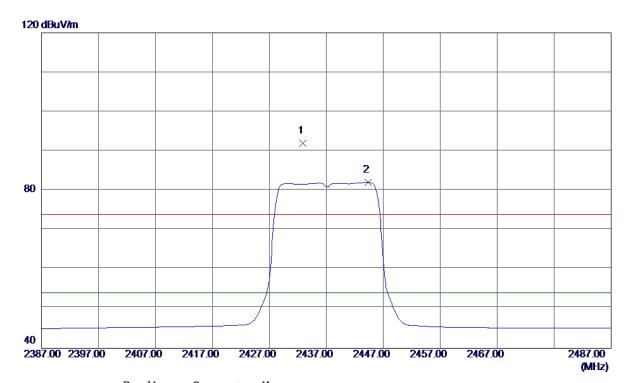
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.6870	33. 47	6. 32	39. 79	74.00	-34.21	Peak	
2 *	4824. 2300	23. 11	6. 32	29. 43	54.00	-24.57	AVG	

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Vertical



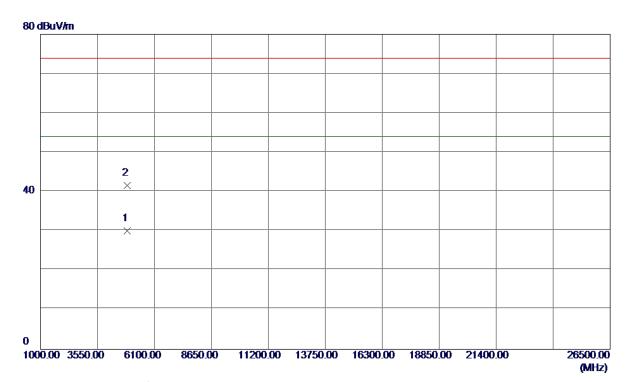
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2432.9000	58. 85	33. 22	92.07	74.00	18. 07	Peak	No Limit
2 *	2444. 3000	48.81	33. 26	82. 07	54.00	28. 07	AVG	No Limit

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Vertical



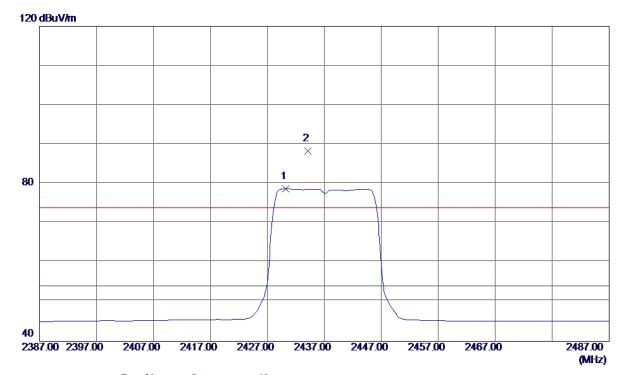
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.9350	23.61	6.44	30.05	54.00	-23.95	AVG	
2	4874. 1469	35. 13	6. 44	41. 57	74.00	-32.43	Peak	

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Horizontal



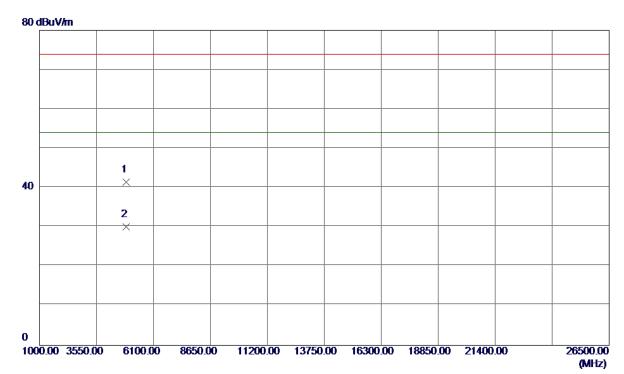
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 2000	45. 53	33. 21	78. 74	54.00	24.74	AVG	No Limit
2	2434. 1000	55. 06	33. 22	88. 28	74.00	14. 28	Peak	No Limit

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Horizontal



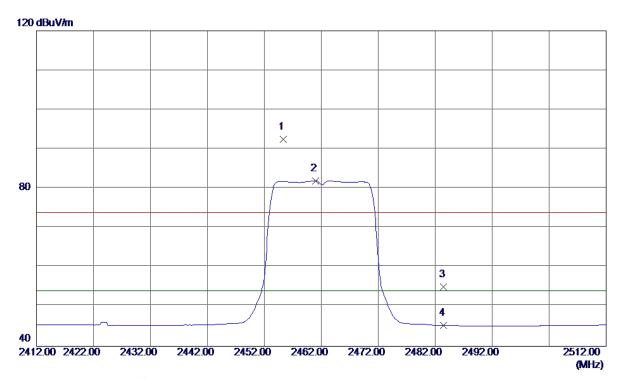
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0720	34.97	6.44	41.41	74.00	-32.59	Peak	
2 *	4874. 1830	23.66	6. 44	30. 10	54.00	-23. 90	AVG	

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Vertical



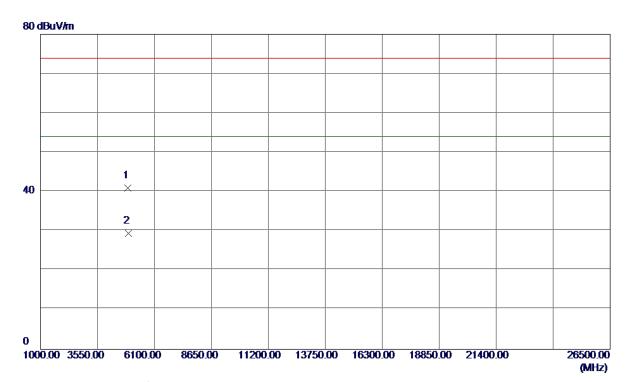
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455. 3000	59. 21	33. 30	92. 51	74.00	18. 51	Peak	No Limit
2 *	2461.0000	48. 59	33. 32	81.91	54.00	27.91	AVG	No Limit
3	2483. 5000	21.69	33. 41	55. 10	74.00	-18. 90	Peak	
4	2483. 5000	11.87	33. 41	45. 28	54.00	-8.72	AVG	

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Vertical



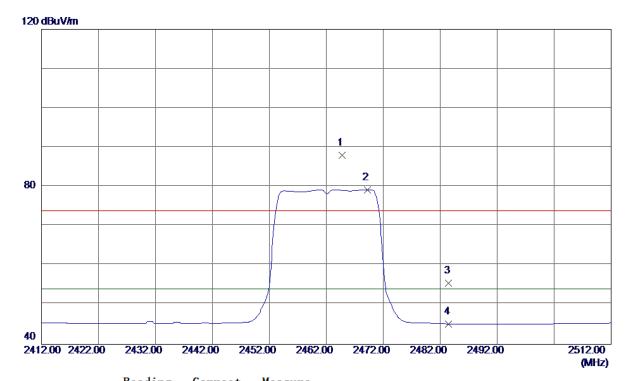
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 5860	34. 38	6. 57	40.95	74.00	-33.05	Peak	
2 *	4924. 3250	22.82	6. 57	29. 39	54.00	-24.61	AVG	

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Horizontal



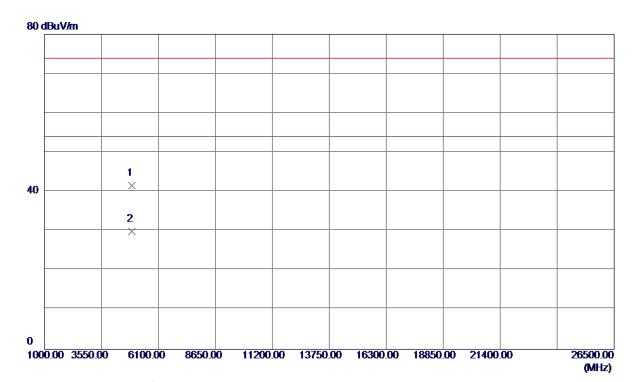
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2464.8000	54.62	33. 34	87. 96	74.00	13.96	Peak	No Limit
2 *	2469. 2000	45. 92	33. 35	79. 27	54.00	25. 27	AVG	No Limit
3	2483. 5000	22. 12	33.41	55. 53	74.00	-18.47	Peak	
4	2483. 5000	11. 78	33.41	45. 19	54.00	-8.81	AVG	

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Horizontal



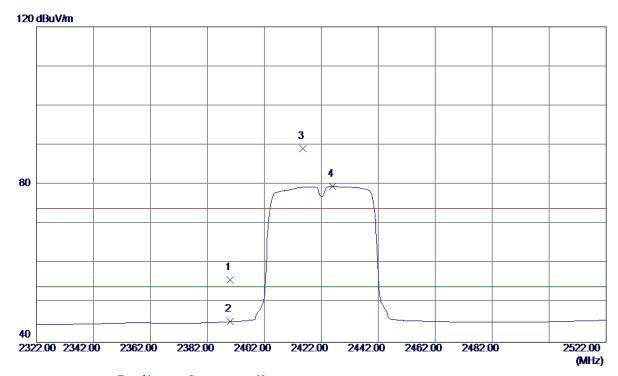
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.6530	35. 01	6. 57	41.58	74.00	-32.42	Peak	
2 *	4923. 7070	23. 37	6. 57	29. 94	54.00	-24.06	AVG	

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Vertical



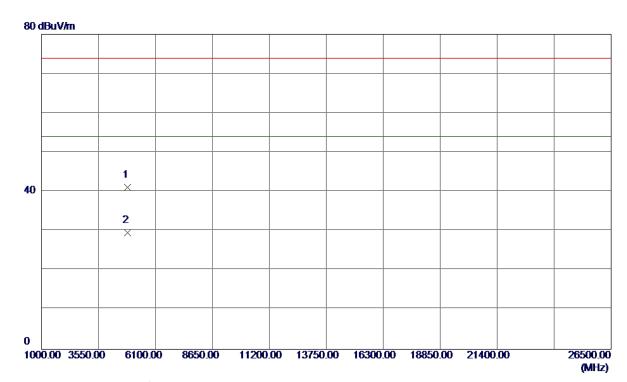
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22.71	33.06	55. 77	74.00	-18. 23	Peak	
2	2390.0000	12. 15	33.06	45. 21	54.00	-8.79	AVG	
3	2415.6000	55. 90	33. 15	89. 05	74.00	15. 0 5	Peak	No Limit
4 *	2426. 0000	46. 31	33. 19	79. 50	54.00	25. 50	AVG	No Limit

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Vertical



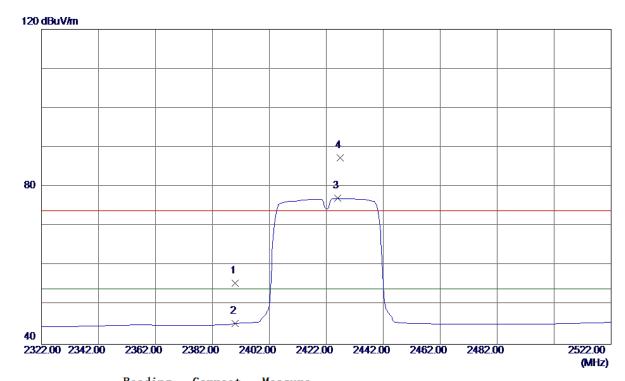
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4844.7250	34.77	6. 37	41.14	74.00	-32.86	Peak	
2 *	4845. 3600	23. 19	6. 37	29. 56	54.00	-24.44	AVG	

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Horizontal



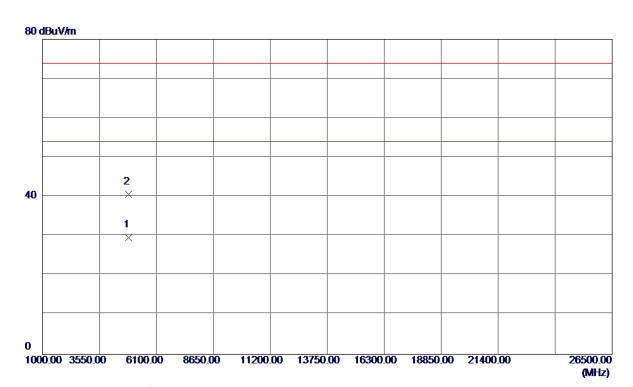
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	22.42	33.06	55. 48	74.00	-18. 52	Peak	
2	2390.0000	12. 23	33.06	45. 29	54.00	-8.71	AVG	
3 *	2426.0000	43.86	33. 19	77. 05	54.00	23.05	AVG	No Limit
4	2426. 8000	54. 24	33. 19	87.43	74.00	13.43	Peak	No Limit

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Horizontal



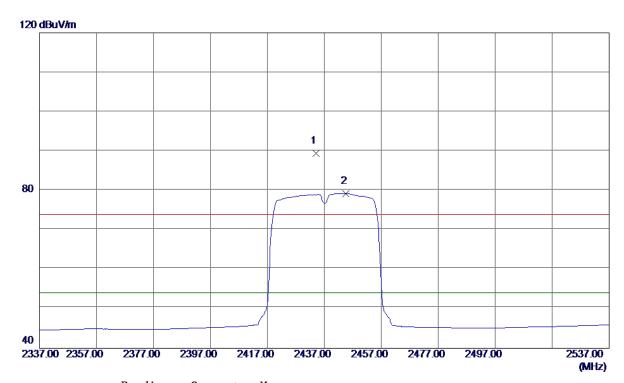
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4842.6950	23. 32	6. 36	29.68	54.00	-24. 32	AVG	
2	4843.7100	34. 33	6. 37	40.70	74.00	-33. 30	Peak	

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Vertical



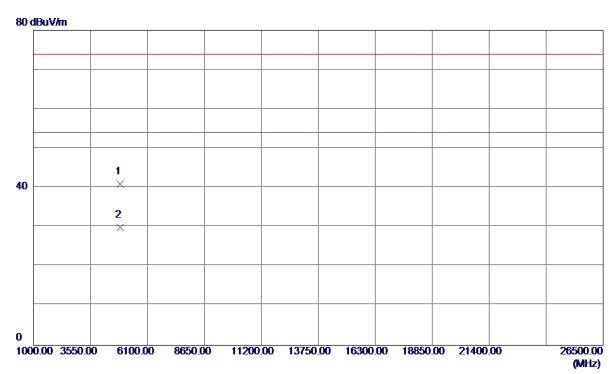
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2434.0000	56. 27	33. 22	89. 49	74.00	15. 49	Peak	No Limit
2 *	2444. 6000	45. 99	33. 26	79. 25	54.00	25. 25	AVG	No Limit

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Vertical



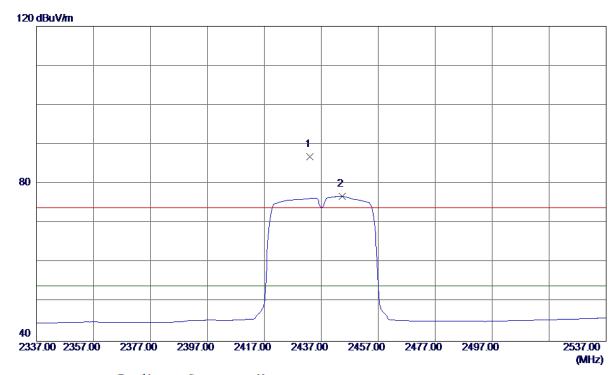
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4871.6200	34. 58	6. 44	41.02	74.00	-32.98	Peak	
2 *	4874. 0150	23. 50	6. 44	29. 94	54.00	-24.06	AVG	

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Horizontal



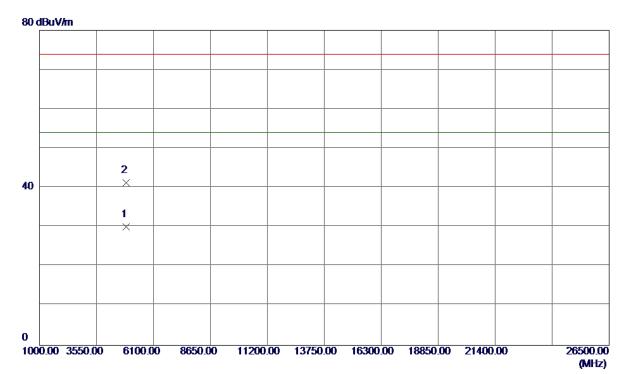
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433.0000	53. 61	33. 22	86. 83	74.00	12.83	Peak	No Limit
2 *	2444. 4000	43. 48	33. 26	76.74	54.00	22.74	AVG	No Limit

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Horizontal



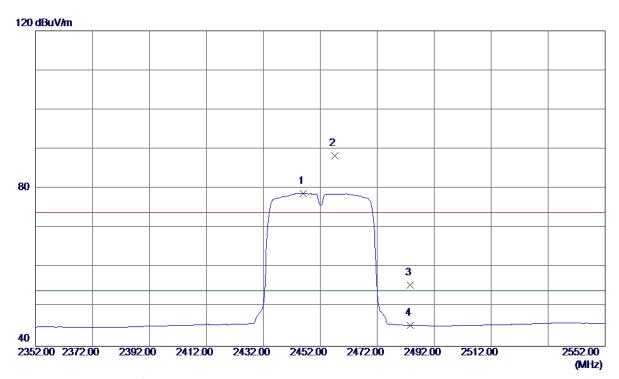
No.	Freq.	Reading Level	Correct Factor	$_{\tt Measure}^{\tt Measure}$	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 3300	23. 57	6. 44	30. 01	54.00	-23.99	AVG	
2	4875. 6000	34. 80	6. 45	41. 25	74.00	-32. 75	Peak	

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Vertical



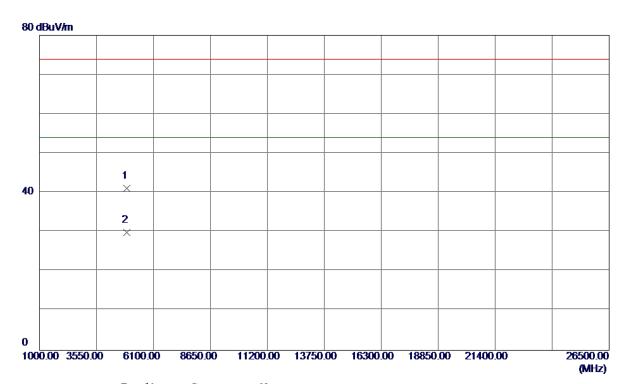
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2446. 0000	45. 43	33. 27	78. 70	54.00	24.70	AVG	No Limit
2	2457.0000	55. 02	33. 31	88. 33	74.00	14. 33	Peak	No Limit
3	2483.5000	22. 12	33.41	55. 53	74.00	-18.47	Peak	
4	2483. 5000	11. 90	33. 41	45. 31	54.00	-8.69	AVG	

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Vertical



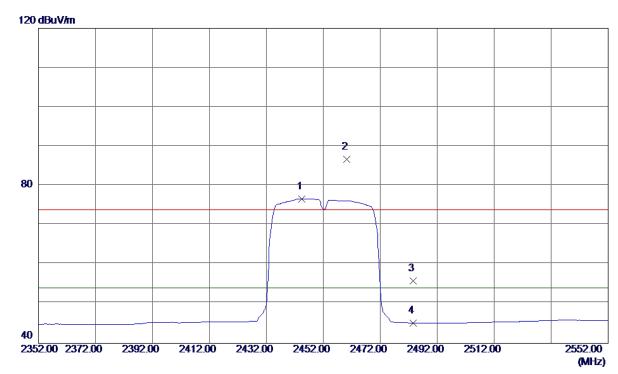
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4903. 3100	34.54	6. 52	41.06	74.00	-32.94	Peak	
2 *	4904.7300	23. 34	6. 52	29. 86	54.00	-24. 14	AVG	

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Horizontal



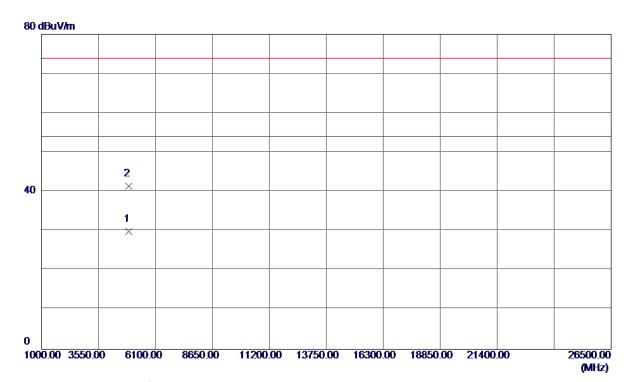
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2444. 4000	43.45	33. 26	76.71	54.00	22.71	AVG	No Limit
2	2460. 2000	53.44	33. 32	86. 76	74.00	12.76	Peak	No Limit
3	2483. 5000	22. 50	33. 41	55. 91	74.00	-18. 09	Peak	
4	2483. 5000	11.77	33. 41	45. 18	54.00	-8.82	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4903.7200	23.43	6. 52	29. 95	54.00	-24.05	AVG	
2	4904. 7050	34. 94	6. 52	41. 46	74.00	-32.54	Peak	

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ATTACHMENT E - BANDWIDTH

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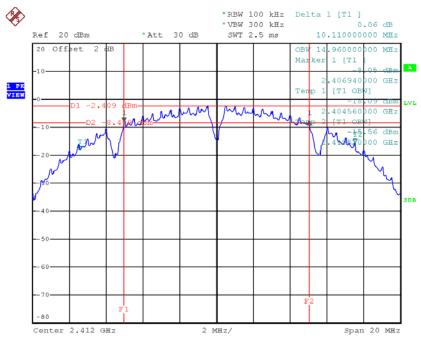




Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.11	14.96	500	Complies
2437	10.11	14.96	500	Complies
2462	10.10	14.96	500	Complies

TX CH01



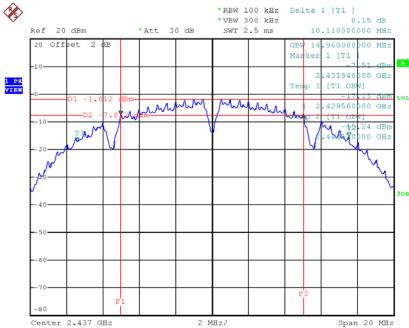
Date: 20.JUL.2017 15:03:28

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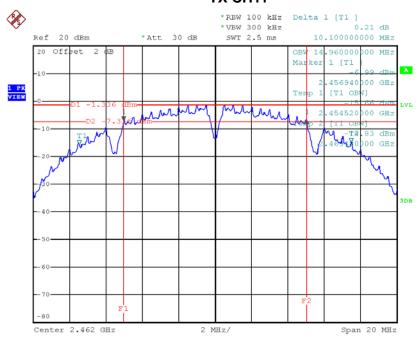






Date: 20.JUL.2017 15:04:52

TX CH11



Date: 20.JUL.2017 15:06:22

Report No.: BTL-FCCP-1-1707C141

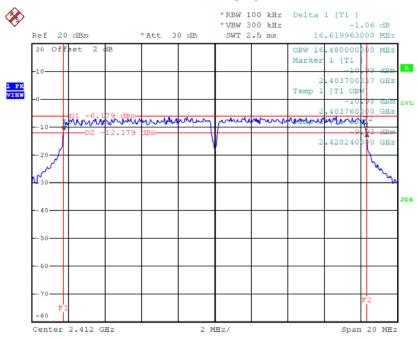




Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.62	16.48	500	Complies
2437	16.59	16.52	500	Complies
2462	16.66	16.52	500	Complies

TX CH01



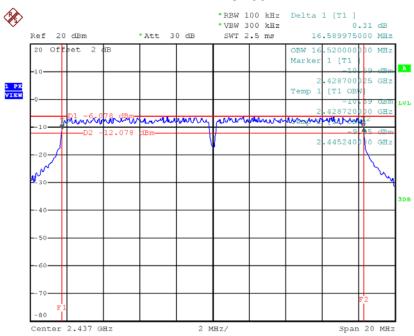
Date: 20.JUL.2017 15:08:00

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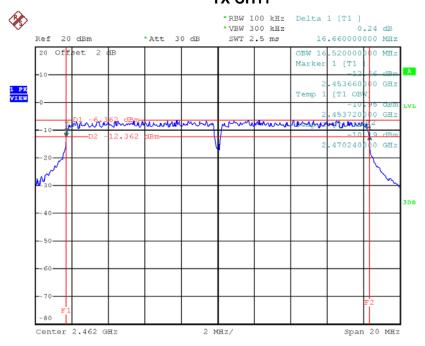






Date: 20.JUL.2017 15:09:23

TX CH11



Date: 20.JUL.2017 15:10:29

Report No.: BTL-FCCP-1-1707C141

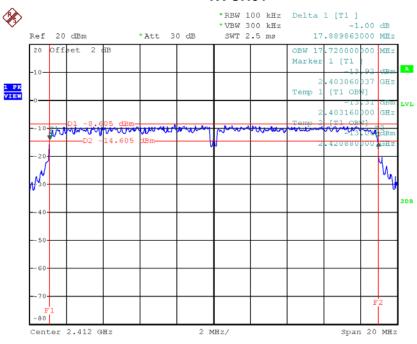




Test Mode: TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.89	17.72	500	Complies
2437	17.90	17.72	500	Complies
2462	17.88	17.68	500	Complies

TX CH01



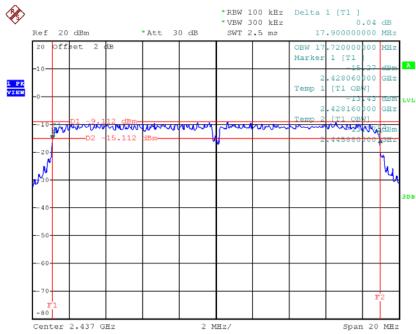
Date: 20.JUL.2017 15:12:39

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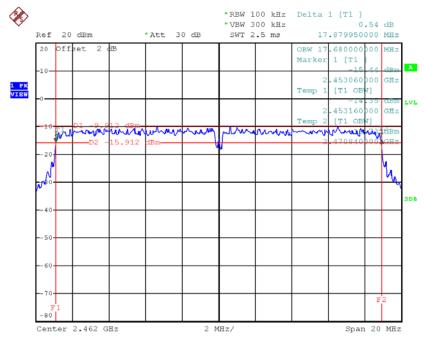






Date: 20.JUL.2017 15:14:14

TX CH11



Date: 20.JUL.2017 15:15:24

Report No.: BTL-FCCP-1-1707C141

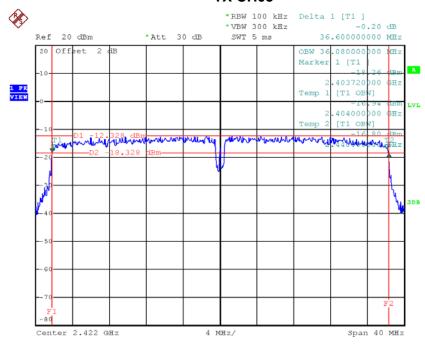




Test Mode: TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.60	36.08	500	Complies
2437	36.56	36.08	500	Complies
2452	36.56	36.08	500	Complies

TX CH03

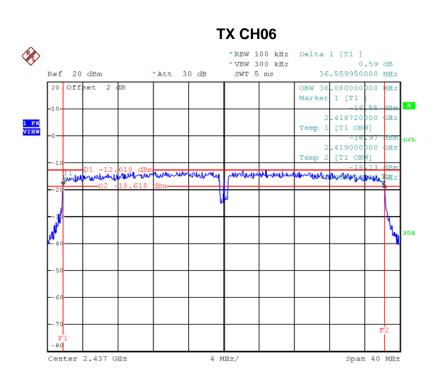


Date: 20.JUL.2017 15:21:51

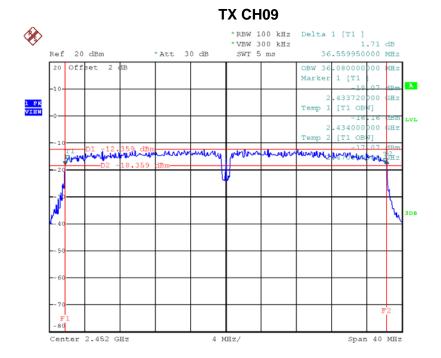
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Date: 20.JUL.2017 15:23:27



Date: 20.JUL.2017 15:24:51

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ATTACHMENT F – MAXIMUM AVG OUTPUT POWER					

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Test Mode :TX B Mode_CH01/06/11						
Frequency	AVG Power	AVG Power	Max. Limit	Max. Limit	Result	
(MHz)	(dBm)	(W)	(dBm)	(W)	Result	
2412	8.81	0.0076	30.00	1.00	Complies	
2437	8.65	0.0073	30.00	1.00	Complies	
2462	8.93	0.0078	30.00	1.00	Complies	

Test Mode :TX G Mode_CH01/06/11					
Frequency	AVG Power	AVG Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	8.84	0.0077	30.00	1.00	Complies
2437	8.71	0.0074	30.00	1.00	Complies
2462	8.82	0.0076	30.00	1.00	Complies

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Test Mode :TX N20 Mode_CH01/06/11_ANT 1						
Frequency	AVG Power	AVG Power	Max. Limit	Max. Limit	Dooult	
(MHz)	(dBm)	(W)	(dBm)	(W)	Result	
2412	5.94	0.0039	30.00	1.00	Complies	
2437	5.81	0.0038	30.00	1.00	Complies	
2462	5.97	0.0040	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11_ANT 2						
Frequency	AVG Power	AVG Power	Max. Limit	Max. Limit	Dogult	
(MHz)	(dBm)	(W)	(dBm)	(W)	Result	
2412	5.86	0.0039	30.00	1.00	Complies	
2437	5.83	0.0038	30.00	1.00	Complies	
2462	5.76	0.0038	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency	AVG Power	AVG Power	Max. Limit	Max. Limit	Pocult
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	8.91	0.0078	30.00	1.00	Complies
2437	8.83	0.0076	30.00	1.00	Complies
2462	8.88	0.0077	30.00	1.00	Complies

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