

FCC Radio Test Report

FCC ID: X4Y23091

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

Project No. : 1411C044

Equipment : Wireless-N 3G/4G mobile router

Model Name : ARNPR154U2

Applicant : NEXXT SOLUTIONS

: 3505 N.W 107TH AVE, MIAMI, FL, 33178 Address

Date of Receipt: Nov. 06, 2014

Date of Test : Nov. 06, 2014~Dec. 15, 2014 | Sued Date : Dec. 16, 2014 | Ested by : BTL Inc.

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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-1-1411C044	Original Issue.	Dec. 16, 2014

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1. CERTIFICATION

Equipment : Wireless-N 3G/4G mobile router

Brand Name: NEXXT

Model Name: ARNPR154U2

Applicant : NEXXT SOLUTIONS

Date of Test : Nov. 06, 2014~Dec. 15, 2014 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-1-1411C044) 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: 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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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792 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 reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 % $^{\circ}$

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CD03	CISER	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless-N 3G/4G mobile router		
Brand Name	NEXXT		
Model Name	ARNPR154U2		
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 150 Mbps	
	Output Power (Max.)	802.11b: 17.98dBm 802.11g: 17.13dBm 802.11n(20MHz):16.09dBm 802.11n(40MHz): 21.10dBm	
Power Source	DC voltage supplied from AC/DC adapter.		
Power Rating	I/P: 100-240V~50/60Hz 0.3A O/P: 5V/1.2A		

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	Note
1	Tenda	Q5060	Internal	N/A	3.02	TX/RX

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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		

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) 802.11n HT40 mode: BPSK (13.5Mbps)

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

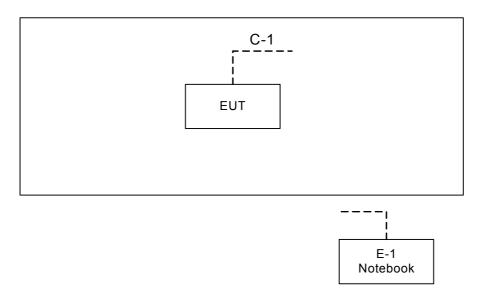
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software version		RT5350QA	
Frequency (MHz)	2412	2437	2462
802.11b	13	18	1D
802.11g	10	15	19
802.11n (20MHz)	0E	12	15
Frequency	2422	2437	2452
802.11n (40MHz)	14	17	13

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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/IC	Series No.	Note
E-1	Notebook	DELL	INSPIRON 1420	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ-45 Cable

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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

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.

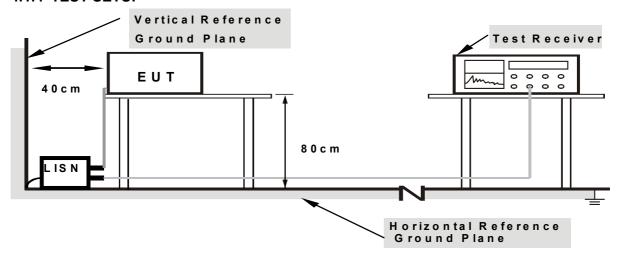
4.1.3 DEVIATION FROM TEST STANDARD

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: 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

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).

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	

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	

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4.2.2 TEST PROCEDURE

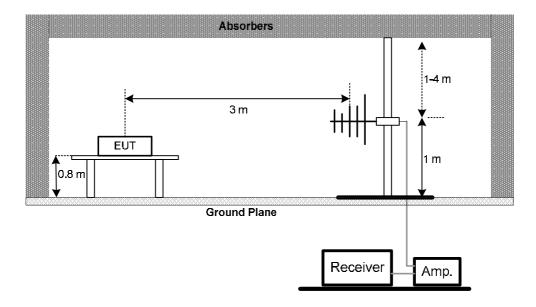
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 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

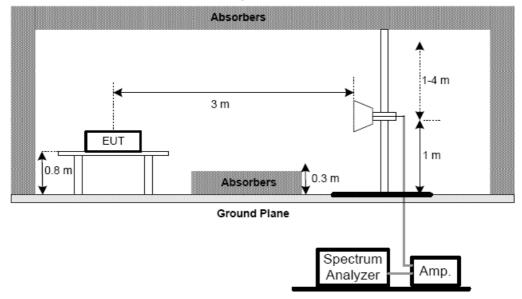
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



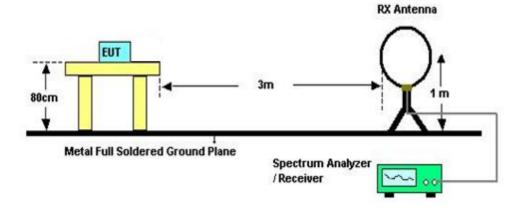
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(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(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: 25°C Relative Humidity: 55% 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) Result				
15.247(a)(2) Bandwidth 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 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: 55% Test Voltage: AC 120V/60Hz

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

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: 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 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: 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	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: 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	LISN	EMCO	3816/2	00052765	Mar. 29, 2015			
2	LISN	R&S	ENV216	101447	Mar. 29, 2015			
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015			
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015			
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015			
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A			

		Radiated Emis	ssion Measurem	ent	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 29, 2015
7	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
8	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	СТ	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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	6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015	

Peak Output Power Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015	
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015	

	Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015	

	Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 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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10. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos

9KHz to 30MHz





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Radiated Measurement Photos

30MHz to 1000MHz



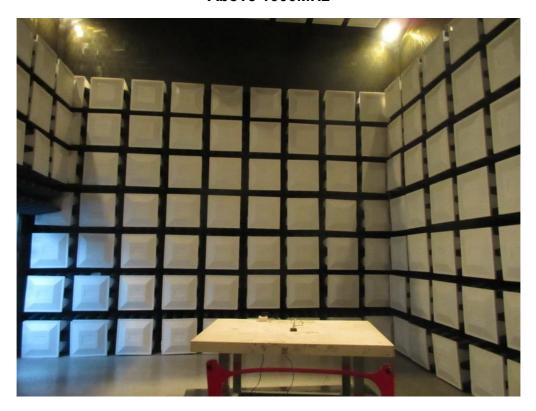


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Radiated Measurement Photos

Above 1000MHz





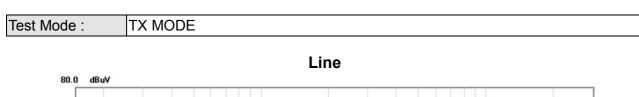
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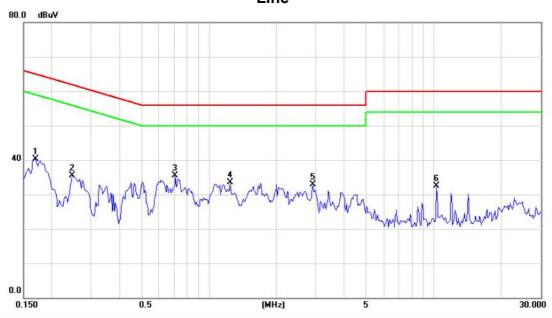


ATTACHMENT A - CONDUCTED EMISSION

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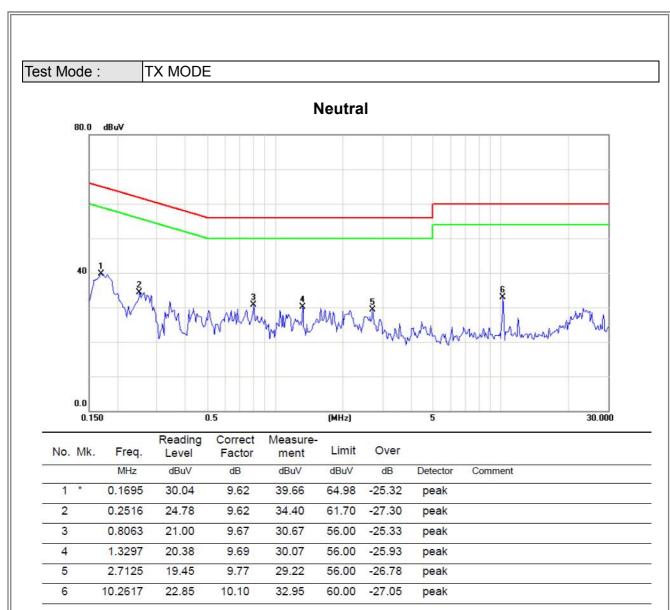




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1695	30.71	9.53	40.24	64.98	-24.74	peak	
2	0.2477	25.89	9.56	35.45	61.83	-26.38	peak	
3 *	0.7086	25.81	9.62	35.43	56.00	-20.57	peak	
4	1.2477	23.88	9.71	33.59	56.00	-22.41	peak	
5	2.9000	23.19	9.76	32.95	56.00	-23.05	peak	
6	10.2891	22.32	10.10	32.42	60.00	-27.58	peak	
							(**)	

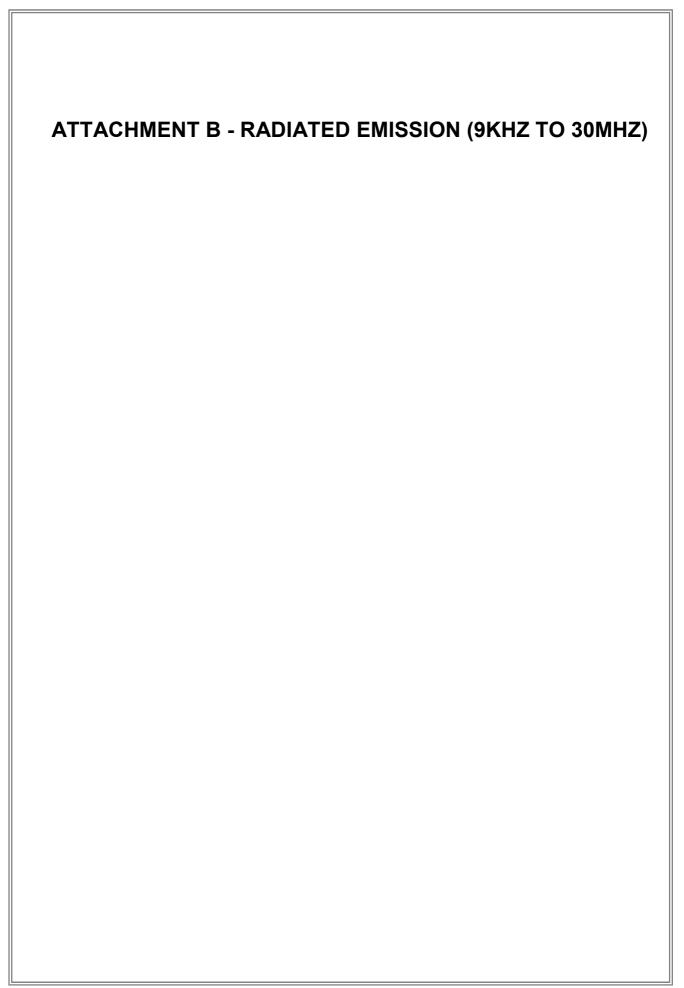
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Test Mode: TX Mode

Freq.	Ant.	Reading(RA)	, ,	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
0.0154	0°	5.27	24.59	29.86	103.85	-73.99	AVG
0.0154	0°	9.79	24.59	34.38	123.85	-89.47	PEAK
0.0352	0°	6.89	23.34	30.23	96.67	-66.45	AVG
0.0352	0°	10.57	23.34	33.91	116.67	-82.77	PEAK
0.0435	0°	8.64	22.81	31.45	94.83	-63.38	AVG
0.0435	0°	13.92	22.81	36.73	114.83	-78.10	PEAK
0.0866	0°	10.55	21.67	32.22	88.85	-56.64	AVG
0.0866	0°	15.86	21.67	37.53	108.85	-71.33	PEAK
0.6062	0°	16.54	20.14	36.68	71.95	-35.27	QP
1.5824	0°	19.31	19.54	38.85	63.62	-24.77	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
0.0163	90°	6.41	24.30	30.71	123.36	-92.65	AVG
0.0163	90°	10.02	24.30	34.32	143.36	-109.04	PEAK
0.0200	90°	8.96	24.30	33.26	121.58	-88.32	AVG
0.0200	90°	11.23	24.30	35.53	141.58	-106.05	PEAK
0.0341	90°	9.55	23.41	32.96	116.95	-83.99	AVG
0.0341	90°	13.15	23.41	36.56	136.95	-100.39	PEAK
0.8124	90°	10.02	20.35	30.37	69.41	-39.04	AVG
0.8124	90°	15.12	20.35	35.47	89.41	-53.94	PEAK
0.5364	90°	16.13	19.92	36.05	73.01	-36.97	QP
1.5826	90°	19.21	19.54	38.75	63.62	-24.87	QP

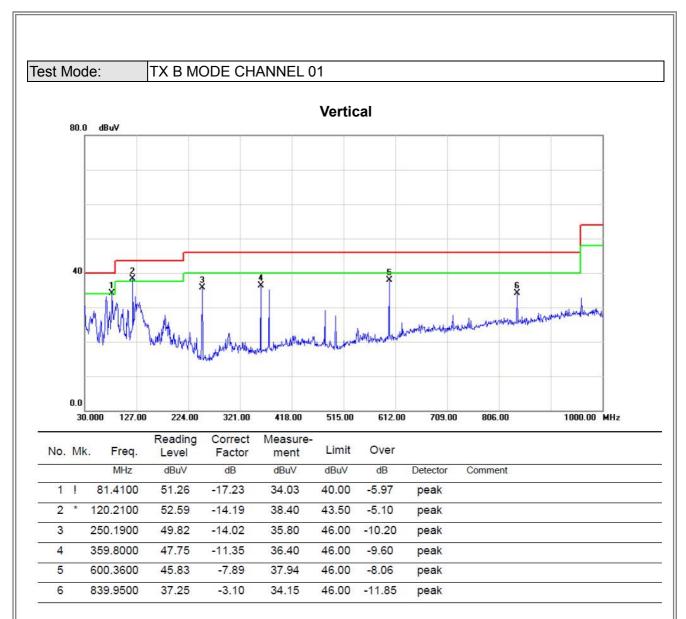
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ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

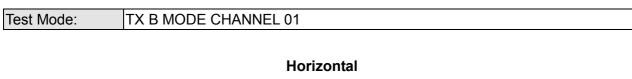
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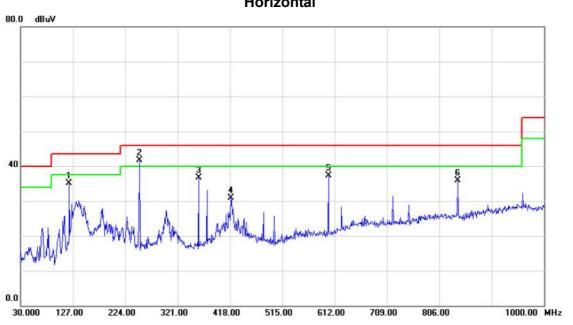




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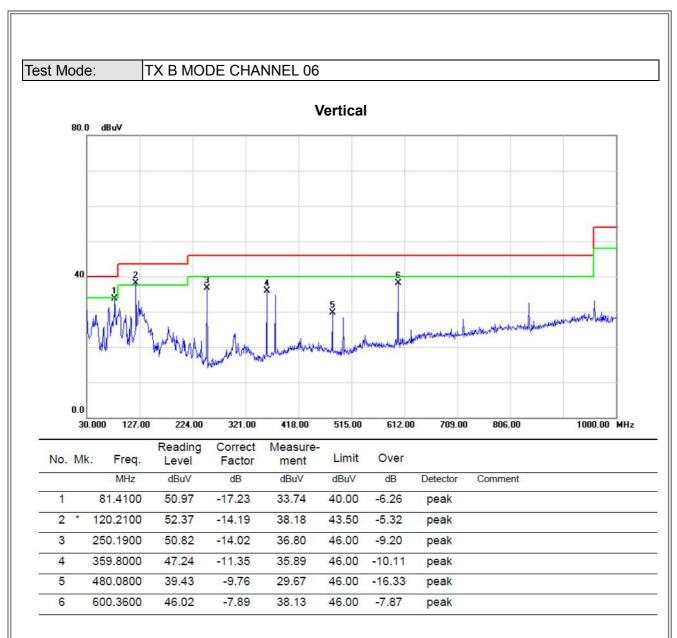




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		120.2100	49.25	-14.19	35.06	43.50	-8.44	peak	
2	*	250.1900	55.73	-14.02	41.71	46.00	-4.29	peak	
3		359.8000	48.04	-11.35	36.69	46.00	-9.31	peak	
4		419.9400	40.01	-9.17	30.84	46.00	-15.16	peak	
5		600.3600	45.26	-7.89	37.37	46.00	-8.63	peak	
6		839.9500	39.06	-3.10	35.96	46.00	-10.04	peak	

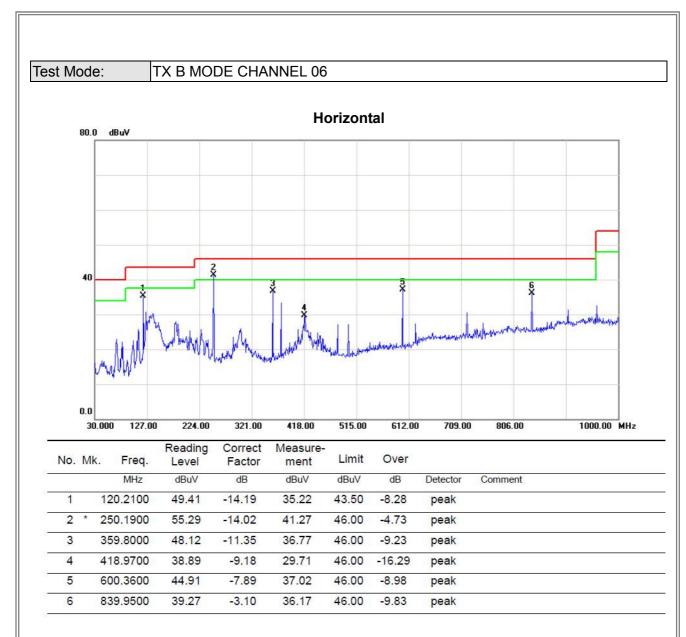
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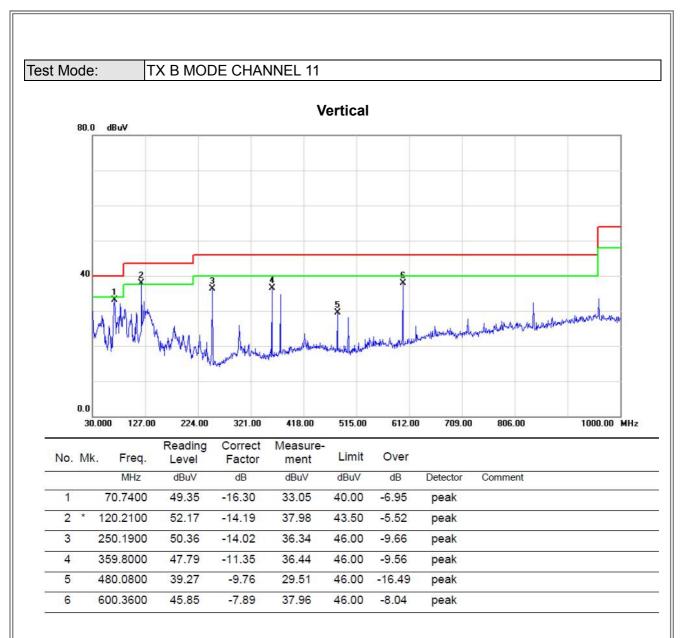
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Horizontal 80.0 dBuV 40 40 3 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		120.2100	48.95	-14.19	34.76	43.50	-8.74	peak		
2	*	250.1900	54.45	-14.02	40.43	46.00	-5.57	peak		
3		359.8000	47.96	-11.35	36.61	46.00	-9.39	peak		
4		419.9400	37.14	-9.17	27.97	46.00	-18.03	peak		
5		600.3600	45.01	-7.89	37.12	46.00	-8.88	peak		,
6		839.9500	38.79	-3.10	35.69	46.00	-10.31	peak		

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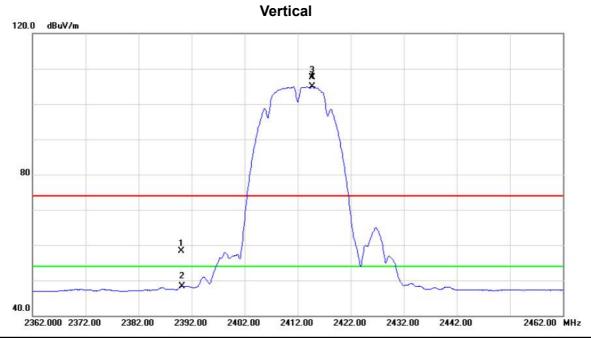


ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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No	. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
200		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	26.39	31.88	58.27	74.00	-15.73	peak	
2		2390.000	16.41	31.88	48.29	54.00	-5.71	AVG	
3	X	2414.700	75.62	31.91	107.53	74.00	33.53	peak	no limit
4	*	2414.700	73.09	31.91	105.00	54.00	51.00	AVG	no limit

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Vertical



No.	Mk	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4824.150	29.05	3.62	32.67	54.00	-21.33	AVG		
2		4829.000	39.52	3.63	43.15	74.00	-30.85	peak		

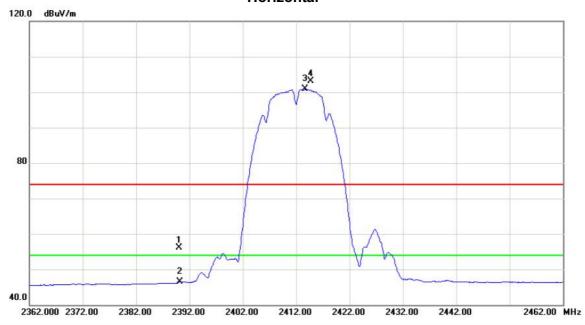
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Orthogonal Axis: X

Test Mode: TX B MODE 2412MHz

Horizontal

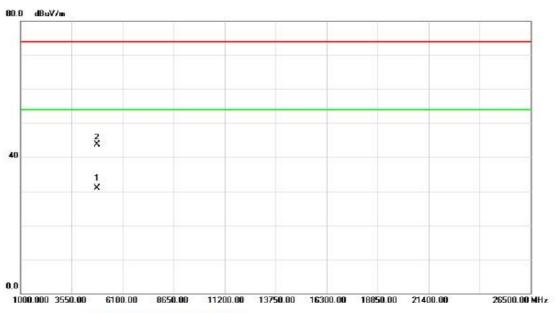


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
55 **		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.17	31.88	56.05	74.00	-17.95	peak	
2		2390.000	14.55	31.88	46.43	54.00	-7.57	AVG	
3	*	2413.700	68.92	31.91	100.83	54.00	46.83	AVG	no limit
4	X	2414.700	71.12	31.91	103.03	74.00	29.03	peak	no limit

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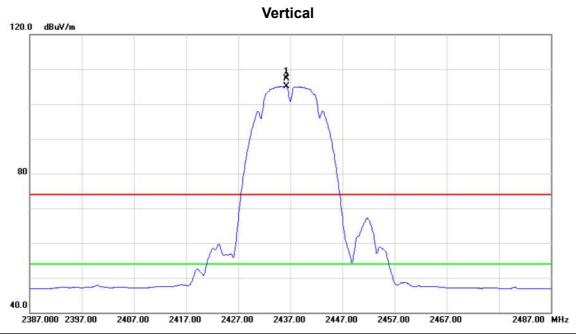
Horizontal



No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
0			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	482	24.000	27.20	3.62	30.82	54.00	-23.18	AVG		
2		482	29.550	40.13	3.63	43.76	74.00	-30.24	peak		

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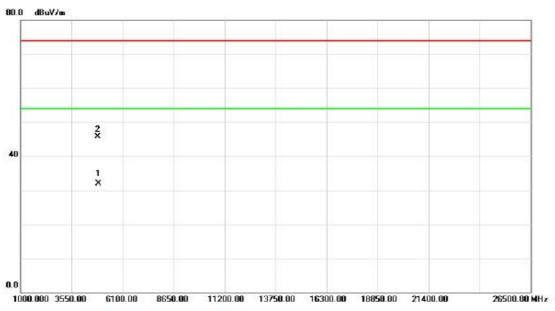


No.	M	k. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-		I	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2436	.200	75.28	31.94	107.22	74.00	33.22	peak	no limit	
2	*	2436	.200	73.22	31.94	105.16	54.00	51.16	AVG	no limit	

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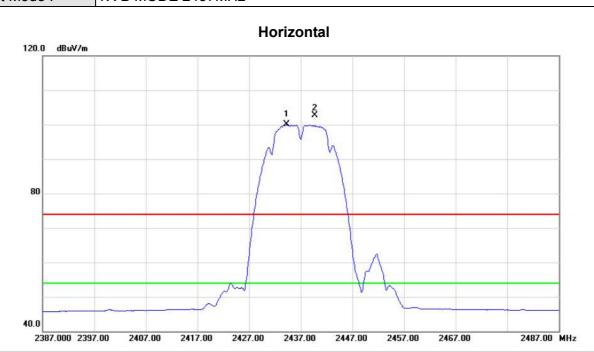
Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.010	28.10	3.72	31.82	54.00	-22.18	AVG		
2		4874.575	42.04	3.72	45.76	74.00	-28.24	peak		

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No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2434.200	68.07	31.94	100.01	54.00	46.01	AVG	no limit
2	X	2439.700	70.68	31.95	102.63	74.00	28.63	peak	no limit

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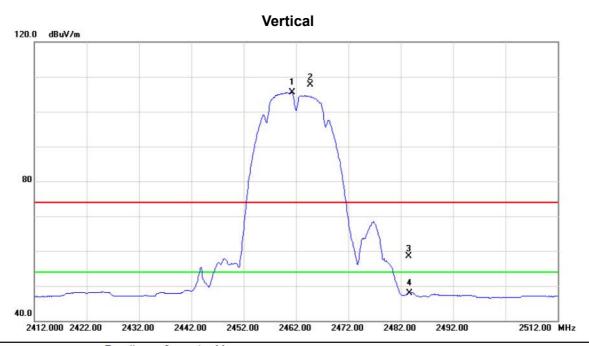
Horizontal



No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.170	29.95	3.72	33.67	54.00	-20.33	AVG		
2		4876.050	40.43	3.72	44.15	74.00	-29.85	peak		

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No.	M	k. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		N	ИНz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2461	.200	73.55	31.98	105.53	54.00	51.53	AVG	no limit	
2	X	2464	.700	75.77	31.98	107.75	74.00	33.75	peak	no limit	
3		2483	.500	26.51	32.01	58.52	74.00	-15.48	peak		
4		2483	.500	15.96	32.01	47.97	54.00	-6.03	AVG		

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Vertical



No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4924.037	28.39	3.80	32.19	54.00	-21.81	AVG		
2		4925.075	40.88	3.80	44.68	74.00	-29.32	peak		

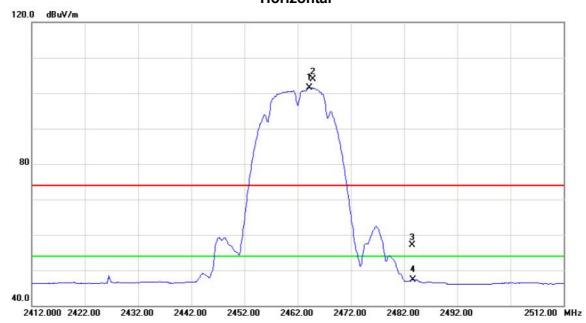
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Orthogonal Axis: X

Test Mode: TX B MODE 2462MHz

Horizontal

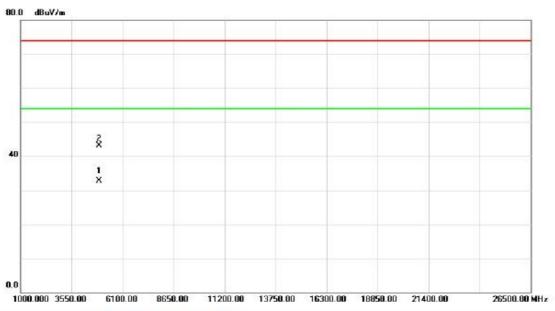


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2464.200	69.62	31.98	101.60	54.00	47.60	AVG	no limit	
2	X	2464.800	71.99	31.98	103.97	74.00	29.97	peak	no limit	
3		2483.500	25.17	32.01	57.18	74.00	-16.82	peak		
4		2483.500	15.28	32.01	47.29	54.00	-6.71	AVG		

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Horizontal

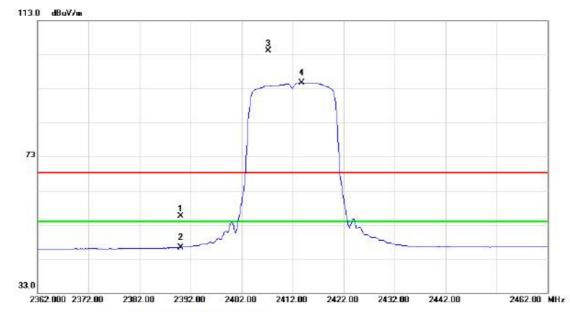


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4924.370	28.85	3.80	32.65	54.00	-21.35	AVG		
2		4925.150	39.36	3.80	43.16	74.00	-30.84	peak		

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Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		201	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	23.64	31.88	55.52	68.30	-12.78	peak		
2		2390.000	14.52	31.88	46.40	54.00	-7.60	AVG		
3	X	2407.200	72.17	31.91	104.08	68.30	35.78	peak	no limit	
4	*	2413.800	62.73	31.91	94.64	54.00	40.64	AVG	no limit	

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Vertical

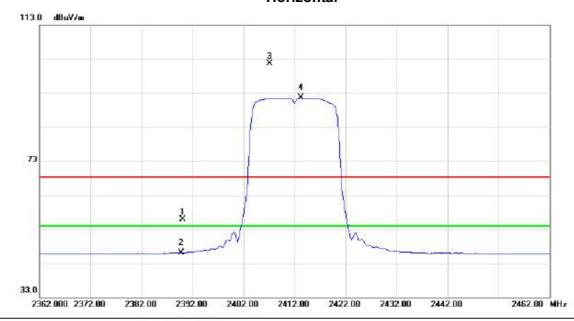


No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
5			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	482	24.020	28.59	3.62	32.21	54.00	-21.79	AVG		
2		482	26.360	40.89	3.62	44.51	74.00	-29.49	peak		

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Horizontal



No.	M	k.	Freq.	Level	Factor	ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		239	90.000	23.93	31.88	55.81	68.30	-12.49	peak		
2		239	000.00	14.22	31.88	46.10	54.00	-7.90	AVG		
3	X	240	07.100	69.84	31.91	101.75	68.30	33.45	peak	no limit	
4	*	241	13.300	59.71	31.91	91.62	54.00	37.62	AVG	no limit	
7			1001-1-000	in the section of		P-17.1.00.10.10.10.10.10.10.10.10.10.10.10.1	- Alledonies	200000000			

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Horizontal



No.	Mk	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4824.550	28.79	3.62	32.41	54.00	-21.59	AVG		
2		4824.630	39.87	3.62	43.49	74.00	-30.51	peak		

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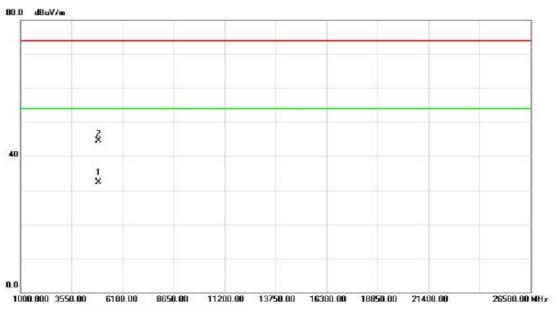
Vertical 113.0 dBuV/m 2 33.0 2387.000 2397.00 2407.00 2417.00 2427.00 2437.00 2447.00 2457.00 2467.00 2487.00 MHz

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		1111	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	24	443. <mark>4</mark> 00	64.84	31.95	96.79	54.00	42.79	AVG	no limit	
2	X	24	437.200	74.30	31.94	106.24	68.30	37.94	peak	no limit	

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Vertical

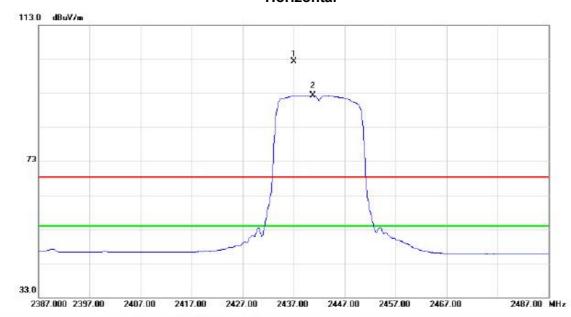


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.150	28.52	3.72	32.24	54.00	-21.76	AVG		
2		4876.275	40.83	3.72	44.55	74.00	-29.45	peak		

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Horizontal



No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		100	
3			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	37.000	70.38	31.94	102.32	68.30	34.02	peak	no limit	
2	*	24	40.800	60.34	31.95	92.29	54.00	38.29	AVG	no limit	

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Horizontal

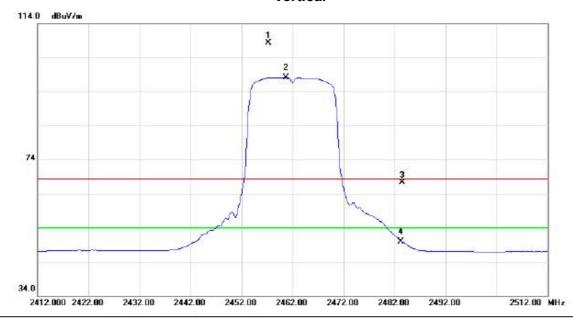


No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.450	28.54	3.72	32.26	54.00	-21.74	AVG		
2		4874.630	39.69	3.72	43.41	74.00	-30.59	peak		

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Vertical



No.	M	c. Fre	q.	Reading Level	Correct	Measure- ment	Limit	Over			
		MH	z	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2457.2	00	76.27	31.98	108.25	68.30	39.95	peak	no limit	
2	*	2460.7	00	66.12	31.98	98.10	54.00	44.10	AVG	no limit	
3		2483.5	00	35.27	32.01	67.28	68.30	-1.02	peak		
4		2483.5	00	17.90	32.01	49.91	54.00	-4.09	AVG		
100		(101) 500	7 7.	and the second	THAT SHARE	Control Colors	5-489004	1000	V 12 (1)		

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Vertical

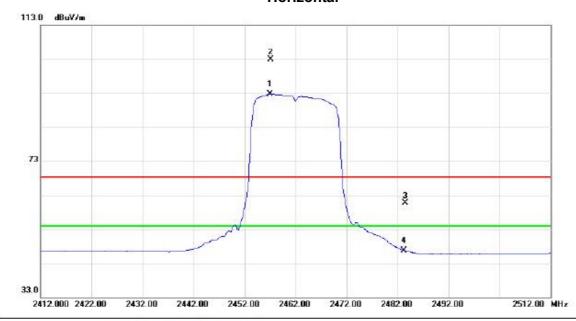


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4924.150	28.26	3.80	32.06	54.00	-21.94	AVG		
2		4925.275	40.76	3.80	44.56	74.00	-29.44	peak		

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Horizontal

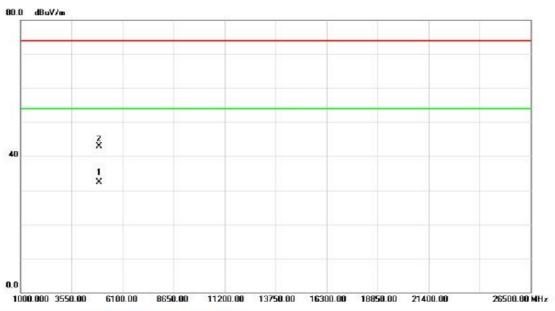


No.	Mk	۲.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	245	7.000	60.72	31.98	92.70	54.00	38.70	AVG	no limit	
2	X	245	7.100	70.92	31.98	102.90	68.30	34.60	peak	no limit	
3		248	3.500	28.69	32.01	60.70	68.30	-7.60	peak		
4		248	3.500	14.69	32.01	46.70	54.00	-7.30	AVG		

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Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4924.550	28.45	3.80	32.25	54.00	-21.75	AVG		
2		4925.630	39.06	3.80	42.86	74.00	-31.14	peak		

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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	24.65	31.88	56.53	68.30	-11.77	peak		
2		2390.000	14.31	31.88	46.19	54.00	-7.81	AVG		
3	Х	2415.000	70.96	31.91	102.87	68.30	34.57	peak	no limit	
4	*	2415.000	61.54	31.91	93.45	54.00	39.45	AVG	no limit	

2412.00

2422.00

2432.00

2442.00

2462.00 MHz

33.0

2362.000 2372.00

2382.00

2392.00

2402.00

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Vertical

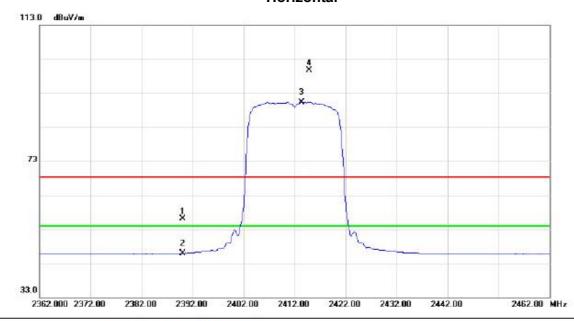


No.	Mk	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4824.18	28.45	3.62	32.07	54.00	-21.93	AVG		
2		4825.72	40.49	3.62	44.11	74.00	-29.89	peak		

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Horizontal



No.	Mk	Κ.	Freq.	Level	Factor	ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		23	90.000	24.28	31.88	56.16	68.30	-12.14	peak		
2		23	90.000	14.11	31.88	45.99	54.00	-8.01	AVG		
3	*	24	13.400	58.42	31.91	90.33	54.00	36.33	AVG	no limit	
4	Х	24	14.800	67.83	31.91	99.74	68.30	31.44	peak	no limit	

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Horizontal

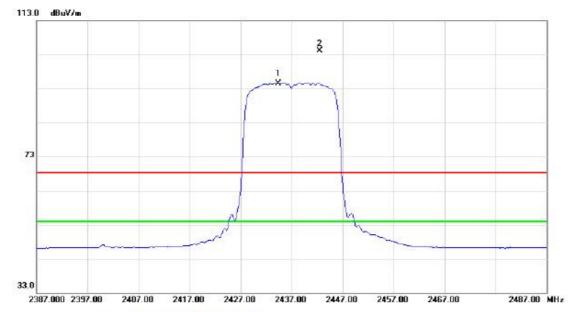


No.	Mk	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4824.03	28.89	3.62	32.51	54.00	-21.49	AVG		
2		4827.40	39.92	3.62	43.54	74.00	-30.46	peak		

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Vertical

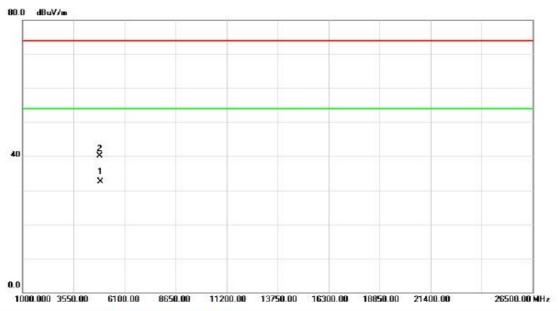


No.	M	k. Freq		Correct	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2434.400	62.65	31.94	94.59	54.00	40.59	AVG	no limit	
2	X	2442.500	72.06	31.95	104.01	68.30	35.71	peak	no limit	

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Vertical

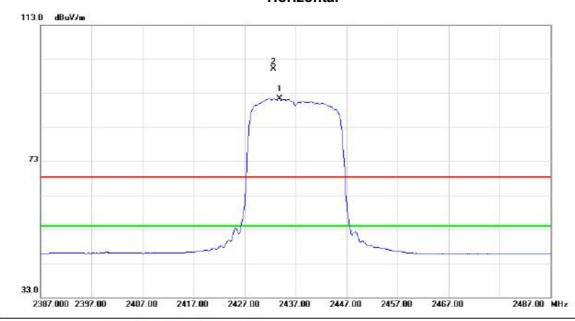


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.220	28.69	3.72	32.41	54.00	-21.59	AVG		
2		4873.650	36.37	3.72	40.09	74.00	-33.91	peak		

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Horizontal

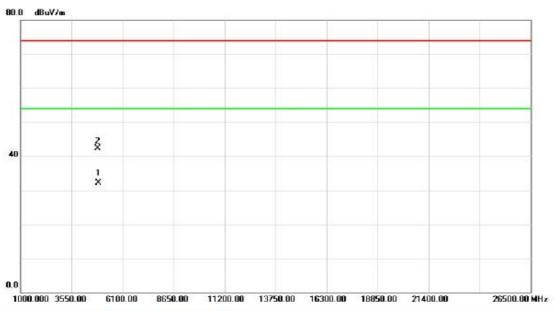


No.	M	c. Freq.			Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2433.800	59.33	31.94	91.27	54.00	37.27	AVG	no limit	
2	X	2432.700	68.07	31.94	100.01	68.30	31.71	peak	no limit	

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Horizontal

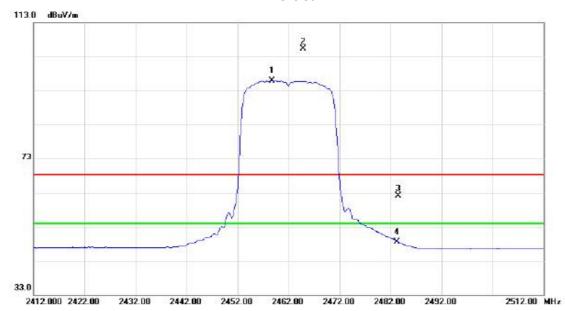


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.085	28.35	3.72	32.07	54.00	-21.93	AVG		
2		4874.550	38.53	3.72	42.25	74.00	-31.75	peak		

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Vertical

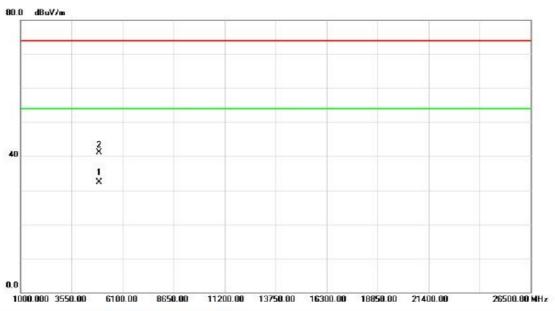


Mi	. Freq.	Reading Level	Correct	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
*	2458.700	63.89	31.98	95.87	54.00	41.87	AVG	no limit	
X	2464.900	73.27	31.98	105.25	68.30	36.95	peak	no limit	
	2483.500	30.01	32.01	62.02	68.30	-6.28	peak		
	2483.500	16.54	32.01	48.55	54.00	-5.45	AVG		
	*	MHz * 2458.700 X 2464.900 2483.500	Mk. Freq. Level MHz dBuV * 2458.700 63.89 X 2464.900 73.27 2483.500 30.01	Mk. Freq. Level Factor MHz dBuV dB * 2458.700 63.89 31.98 X 2464.900 73.27 31.98 2483.500 30.01 32.01	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 2458.700 63.89 31.98 95.87 X 2464.900 73.27 31.98 105.25 2483.500 30.01 32.01 62.02	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m * 2458.700 63.89 31.98 95.87 54.00 X 2464.900 73.27 31.98 105.25 68.30 2483.500 30.01 32.01 62.02 68.30	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dB	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector * 2458.700 63.89 31.98 95.87 54.00 41.87 AVG X 2464.900 73.27 31.98 105.25 68.30 36.95 peak 2483.500 30.01 32.01 62.02 68.30 -6.28 peak	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dB uV/m dB Detector Comment * 2458.700 63.89 31.98 95.87 54.00 41.87 AVG no limit X 2464.900 73.27 31.98 105.25 68.30 36.95 peak no limit 2483.500 30.01 32.01 62.02 68.30 -6.28 peak

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Vertical

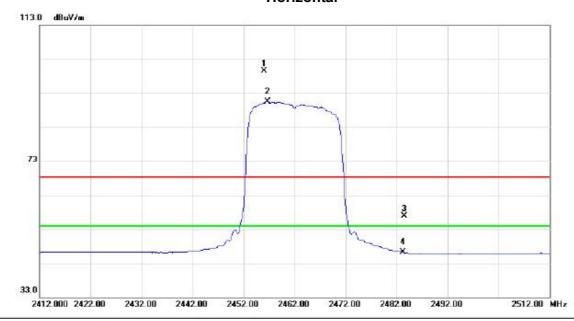


No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4924.150	28.54	3.80	32.34	54.00	-21.66	AVG		
2		4924.330	37.28	3.80	41.08	74.00	-32.92	peak		

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Horizontal

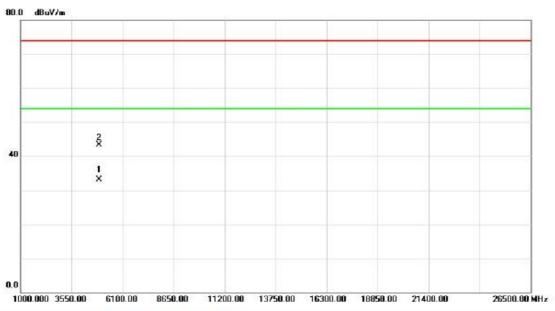


No.	Mk	K .	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	245	56.100	67.56	31.96	99.52	68.30	31.22	peak	no limit	
2	*	245	56.700	58.56	31.97	90.53	54.00	36.53	AVG	no limit	
3		248	83.500	24.97	32.01	56.98	68.30	-11.32	peak		
4		248	83.500	14.19	32.01	46.20	54.00	-7.80	AVG		

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Horizontal

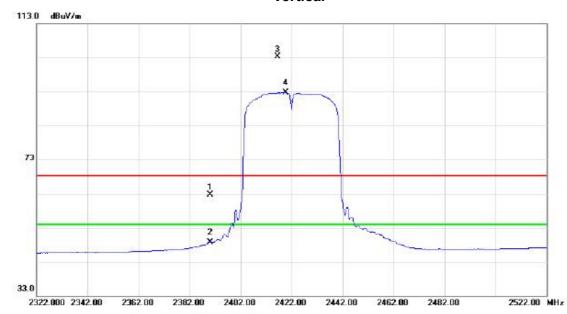


No.	Mk	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4924.170	29.27	3.80	33.07	54.00	-20.93	AVG		
2		4924.350	39.45	3.80	43.25	74.00	-30.75	peak		

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Vertical



M	c. Fred		Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	2390.00	0	30.90	31.88	62.78	68.30	-5.52	peak		
	2390.00	0	16.87	31.88	48.75	54.00	-5.25	AVG		
X	2416.40	0	71.49	31.91	103.40	68.30	35.10	peak	no limit	
*	2419.60	0	60.76	31.92	92.68	54.00	38.68	AVG	no limit	
	X	MHz 2390.00 2390.00 X 2416.40	Mk. Freq. MHz 2390.000 2390.000	MHz dBuV 2390.000 30.90 2390.000 16.87 X 2416.400 71.49	Mk. Freq. Level Factor MHz dBuV dB 2390.000 30.90 31.88 2390.000 16.87 31.88 X 2416.400 71.49 31.91	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 2390.000 30.90 31.88 62.78 2390.000 16.87 31.88 48.75 X 2416.400 71.49 31.91 103.40	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 2390.000 30.90 31.88 62.78 68.30 2390.000 16.87 31.88 48.75 54.00 X 2416.400 71.49 31.91 103.40 68.30	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB 2390.000 30.90 31.88 62.78 68.30 -5.52 2390.000 16.87 31.88 48.75 54.00 -5.25 X 2416.400 71.49 31.91 103.40 68.30 35.10	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 2390.000 30.90 31.88 62.78 68.30 -5.52 peak 2390.000 16.87 31.88 48.75 54.00 -5.25 AVG X 2416.400 71.49 31.91 103.40 68.30 35.10 peak	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dB uV/m dB Detector Comment 2390.000 30.90 31.88 62.78 68.30 -5.52 peak 2390.000 16.87 31.88 48.75 54.00 -5.25 AVG X 2416.400 71.49 31.91 103.40 68.30 35.10 peak no limit

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Vertical

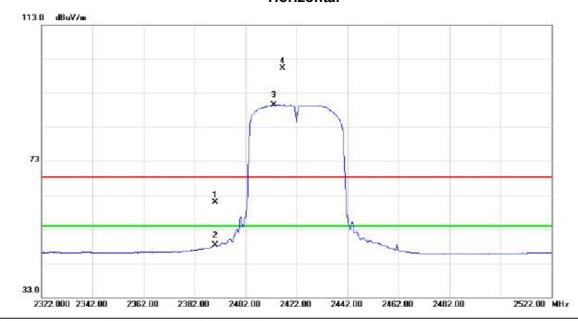


No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4844.060	28.58	3.66	32.24	54.00	-21.76	AVG		
2		4844.250	37.49	3.66	41.15	74.00	-32.85	peak		

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Horizontal



No.	Mk	K.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		23	90.000	28.98	31.88	60.86	68.30	-7.44	peak		
2		23	90.000	16.35	31.88	48.23	54.00	-5.77	AVG		
3	*	24	13.000	57.63	31.91	89.54	54.00	35.54	AVG	no limit	
4	Х	24	16.400	68.30	31.91	100.21	68.30	31.91	peak	no limit	

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Horizontal

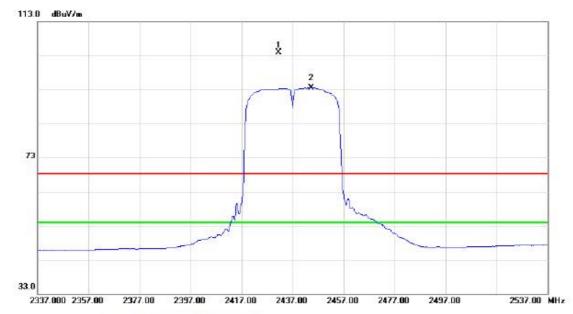


No.	Mk	k. Fr	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MI	łz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4844.2	50	28.41	3.66	32.07	54.00	-21.93	AVG		
2		4845.1	36	37.69	3.66	41.35	74.00	-32.65	peak		

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Vertical

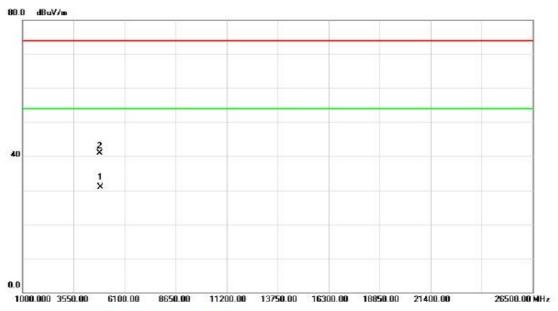


No.	M	k.	Freq.		Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	31.400	72.04	31.94	103.98	68.30	35.68	peak	no limit	
2	*	24	44.400	61.59	31.96	93.55	54.00	39.55	AVG	no limit	

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Vertical

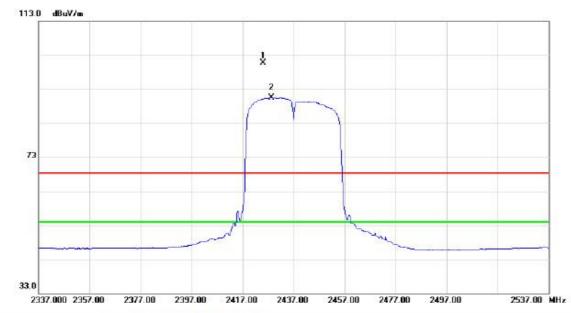


No.	Mk	c. Freq.		Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.100	27.22	3.72	30.94	54.00	-23.06	AVG		
2		4874.450	37.20	3.72	40.92	74.00	-33.08	peak		

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Horizontal



No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		101	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	25.000	68.79	31.93	100.72	68.30	32.42	peak	no limit	
2	*	24	28.200	58.54	31.93	90.47	54.00	36.47	AVG	no limit	

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Horizontal

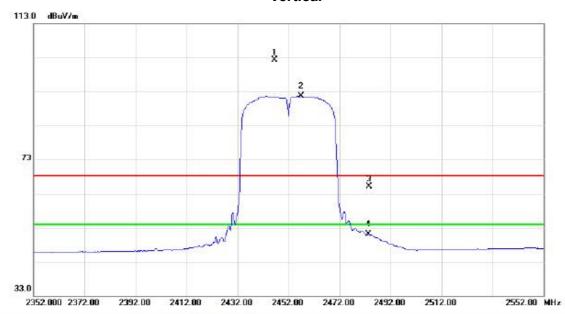


No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4874.020	28.92	3.72	32.64	54.00	-21.36	AVG		
2		4875.750	38.49	3.72	42.21	74.00	-31.79	peak		

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Vertical

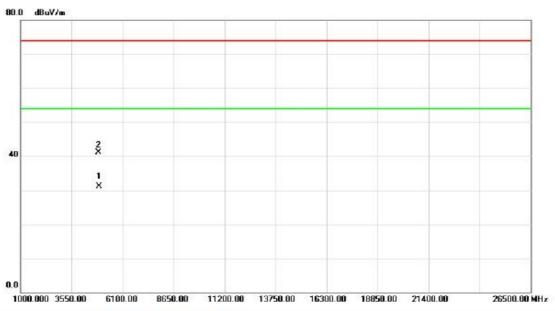


		Level	Factor	ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
Х	2446.400	70.29	31.96	102.25	68.30	33.95	peak	no limit	
*	2457.000	59.69	31.98	91.67	54.00	37.67	AVG	no limit	
	2483.500	33.11	32.01	65.12	68.30	-3.18	peak		
	2483.500	19.07	32.01	51.08	54.00	-2.92	AVG		
	_	X 2446.400 * 2457.000 2483.500	X 2446.400 70.29 * 2457.000 59.69 2483.500 33.11	X 2446.400 70.29 31.96 * 2457.000 59.69 31.98 2483.500 33.11 32.01	X 2446.400 70.29 31.96 102.25 * 2457.000 59.69 31.98 91.67 2483.500 33.11 32.01 65.12	X 2446.400 70.29 31.96 102.25 68.30 * 2457.000 59.69 31.98 91.67 54.00 2483.500 33.11 32.01 65.12 68.30	X 2446.400 70.29 31.96 102.25 68.30 33.95 * 2457.000 59.69 31.98 91.67 54.00 37.67 2483.500 33.11 32.01 65.12 68.30 -3.18	X 2446.400 70.29 31.96 102.25 68.30 33.95 peak * 2457.000 59.69 31.98 91.67 54.00 37.67 AVG 2483.500 33.11 32.01 65.12 68.30 -3.18 peak	X 2446.400 70.29 31.96 102.25 68.30 33.95 peak no limit * 2457.000 59.69 31.98 91.67 54.00 37.67 AVG no limit 2483.500 33.11 32.01 65.12 68.30 -3.18 peak

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Vertical

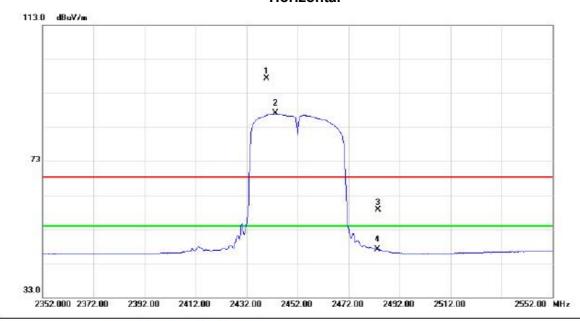


No.	Mk	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4904.100	27.25	3.77	31.02	54.00	-22.98	AVG		
2		4904.450	37.29	3.77	41.06	74.00	-32.94	peak		

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Horizontal



No.	Mk	K .	Freq.	Level	Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	24	39.800	65.37	31.95	97.32	68.30	29.02	peak	no limit	
2	*	24	43.200	55.06	31.95	87.01	54.00	33.01	AVG	no limit	
3		24	83.500	26.75	32.01	58.76	68.30	-9.54	peak		
4		24	83.500	15.06	32.01	47.07	54.00	-6.93	AVG		

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Horizontal



No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	4904.020	28.89	3.77	32.66	54.00	-21.34	AVG		
2		4904.750	38.46	3.77	42.23	74.00	-31.77	peak		

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ATTACHMENT E - BANDWIDTH	

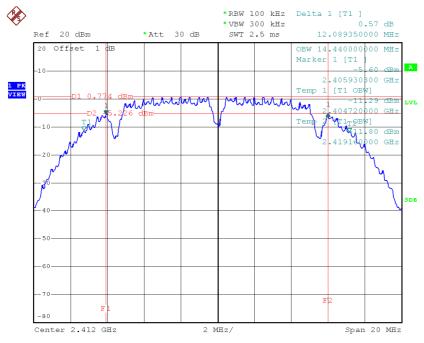
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Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	12.09	14.44	500	Complies
2437	12.10	14.44	500	Complies
2462	12.09	14.44	500	Complies

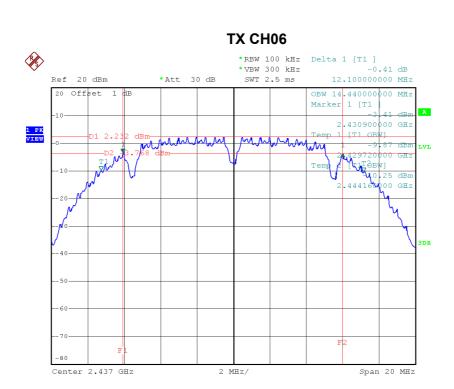
TX CH01



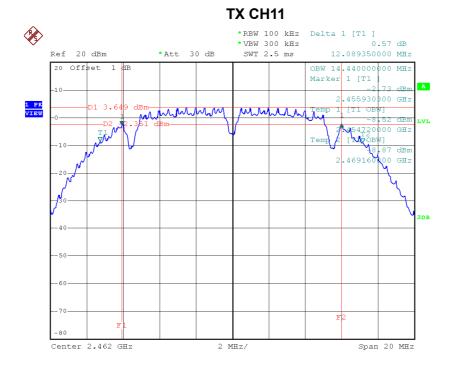
Date: 24.NOV.2014 09:39:05

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Date: 24.NOV.2014 09:40:00



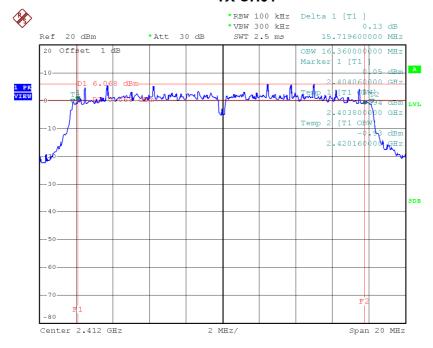
Date: 24.NOV.2014 09:42:02



Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.72	16.36	500	Complies
2437	15.88	16.36	500	Complies
2462	15.11	16.36	500	Complies

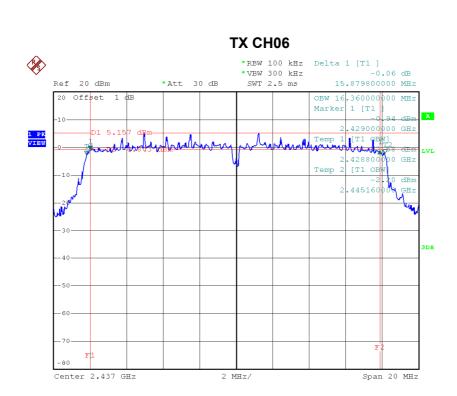
TX CH01



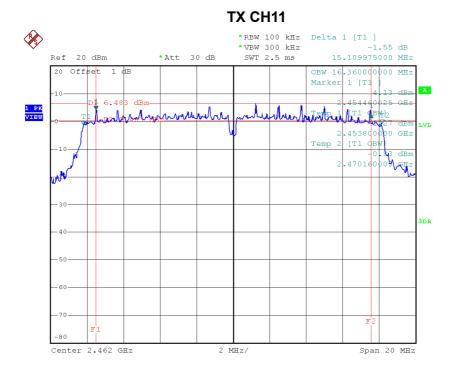
Date: 15.DEC.2014 16:33:23

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Date: 15.DEC.2014 16:34:23



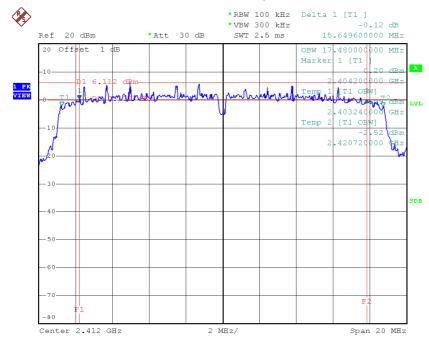
Date: 15.DEC.2014 16:36:26



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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.65	17.48	500	Complies
2437	16.04	17.48	500	Complies
2462	15.44	17.48	500	Complies

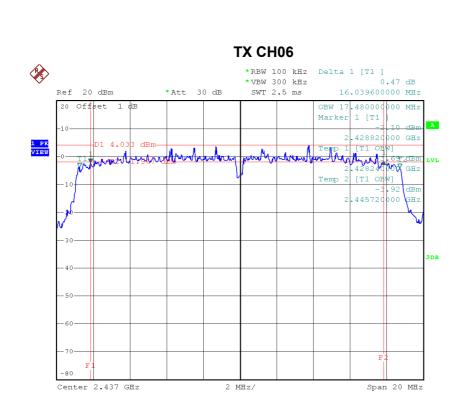
TX CH01



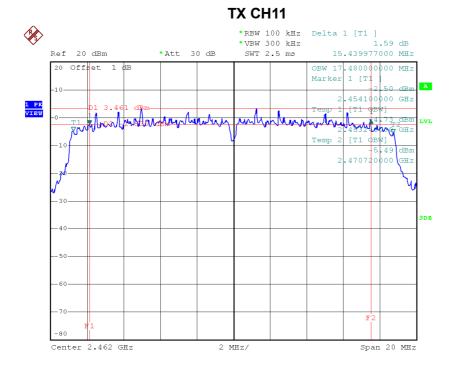
Date: 15.DEC.2014 16:37:51

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Date: 15.DEC.2014 16:38:50



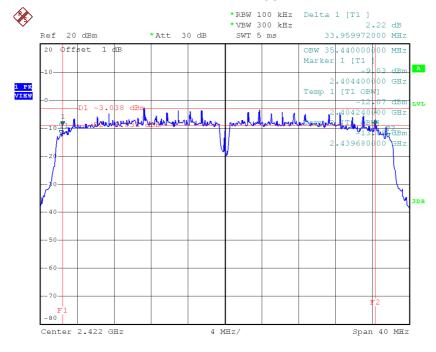
Date: 15.DEC.2014 16:39:42



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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.96	35.44	500	Complies
2437	34.00	35.52	500	Complies
2452	33.96	35.44	500	Complies

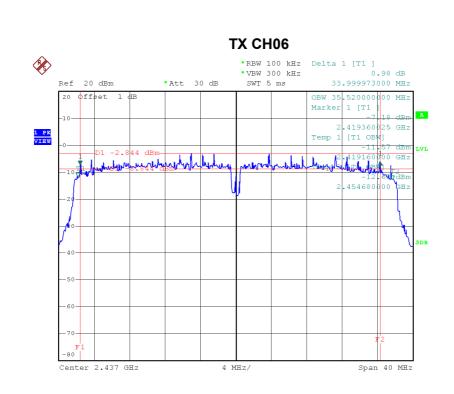
TX CH03



Date: 24.NOV.2014 09:52:03

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Date: 24.NOV.2014 09:53:05

Date: 24.NOV.2014 09:53:55



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	17.92	0.06	30.00	1.00	Complies
2437	17.92	0.06	30.00	1.00	Complies
2462	17.98	0.06	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	16.86	0.05	30.00	1.00	Complies
2437	17.13	0.05	30.00	1.00	Complies
2462	16.86	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	16.09	0.04	30.00	1.00	Complies
2437	15.86	0.04	30.00	1.00	Complies
2462	15.80	0.04	30.00	1.00	Complies

Test Mode: TX N40 Mode_CH03/06/09

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.07	0.13	30.00	1.00	Complies
2437	21.10	0.13	30.00	1.00	Complies
2452	21.01	0.13	30.00	1.00	Complies

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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

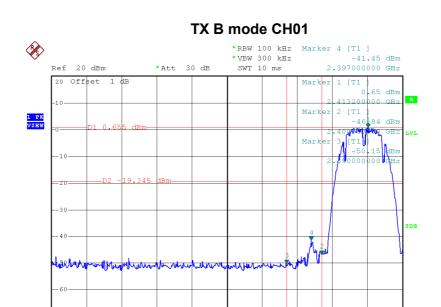
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Test Mode :	TX B Mode

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Stop 2.423 GHz

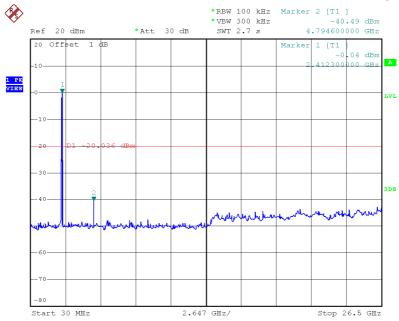
Date: 24.NOV.2014 09:39:27

TX B mode CH11 *RBW 100 kHz Marker 4 [T1] *VBW 300 kHz SWT 10 ms -48.44 dBm 2.484000000 GHz Ref 20 dBm * Att 30 dB 20 Offset 1 [T1] 3.52 dBn Marker 2 [T1] 1 PK VIEW 3 [T1 -50 10 MHz/ Start 2.448 GHz Stop 2.548 GHz

Date: 24.NoV.2014 09:42:23

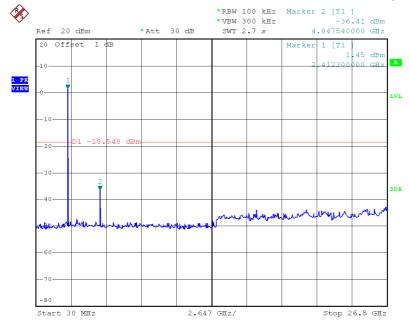






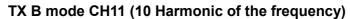
Date: 24.NOV.2014 09:39:19

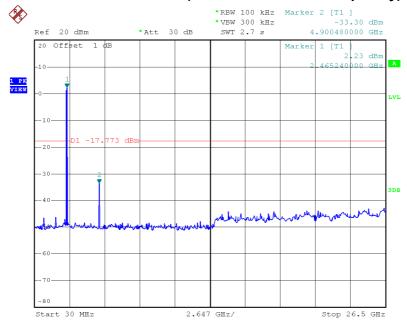
TX B mode CH06 (10 Harmonic of the frequency)



Date: 24.NoV.2014 09:40:14







Date: 24.NOV.2014 09:42:16

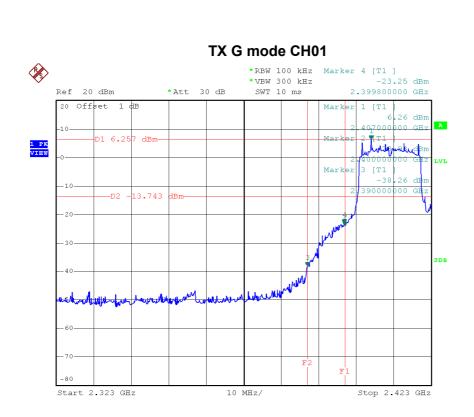
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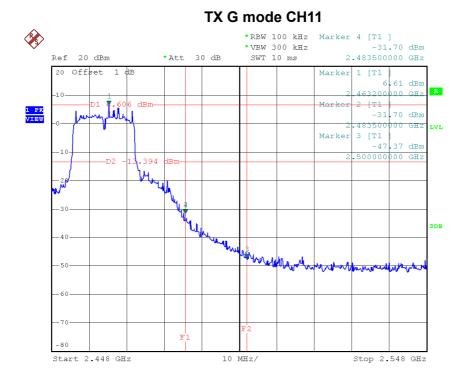
4 B# - 1	TV O Marda
Test Mode :	TX G Mode

Report No.: BTL-FCCP-1-1411C044





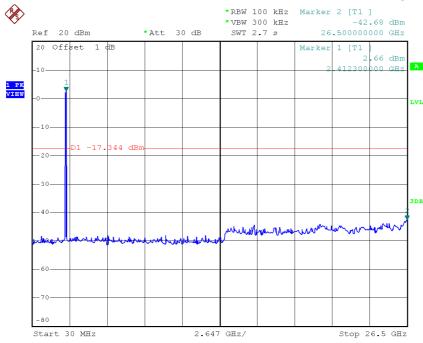




Date: 15.DEC.2014 16:36:47

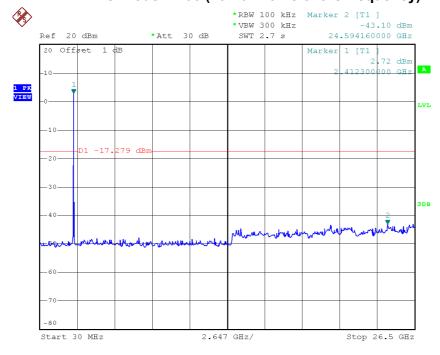






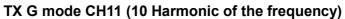
Date: 15.DEC.2014 16:33:37

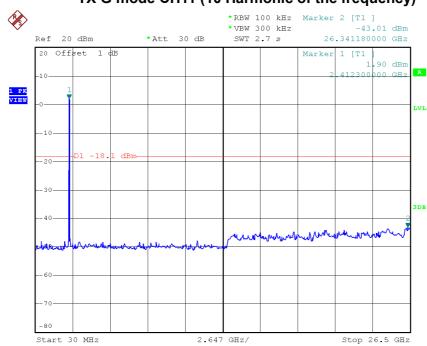
TX G mode CH06 (10 Harmonic of the frequency)



Date: 15.DEC.2014 16:34:36







Date: 15.DEC.2014 16:36:40

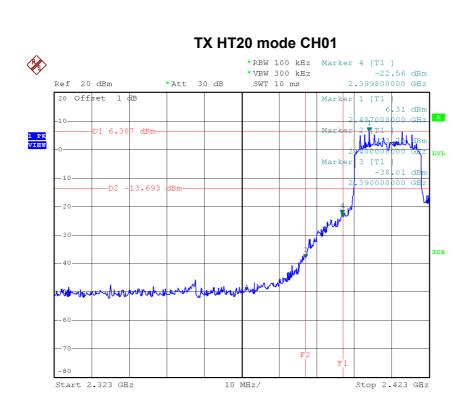
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est Mode :	TX N-20M Mode

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Date: 15.DEC.2014 16:38:13

*RBW 100 kHz Marker 4 [T1] -28.51 dBm *VBW 300 kHz SWT 10 ms Ref 20 dBm *Att 30 dB 2.483500000 GHz 20 Offset 1 dB Marker 1 [T1] 5.44 dBm 465600000 GHz Marker 2 [T1 | -28 51 dBm 1 PK VIEW 483500000 GHZ Marker 3 [T1 -40.60 dBm 3DB othorne phenomenous and

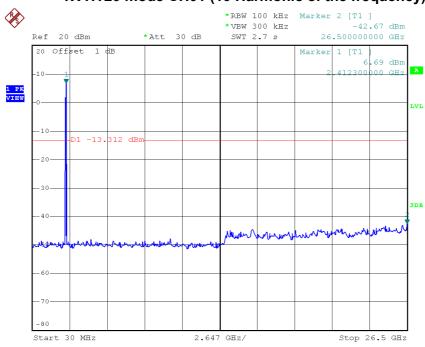
TX HT20 mode CH11

Date: 15.DEC.2014 16:40:03

Stop 2.548 GHz

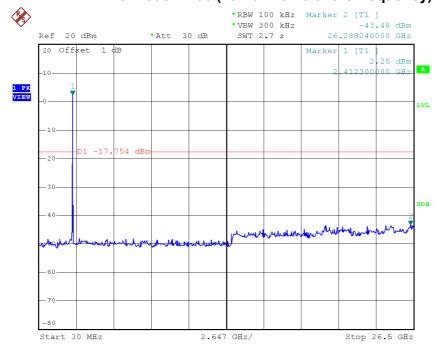






Date: 15.DEC.2014 16:38:05

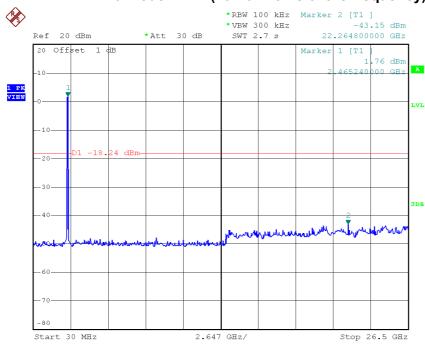
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 15.DEC.2014 16:39:04



TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 15.DEC.2014 16:39:56

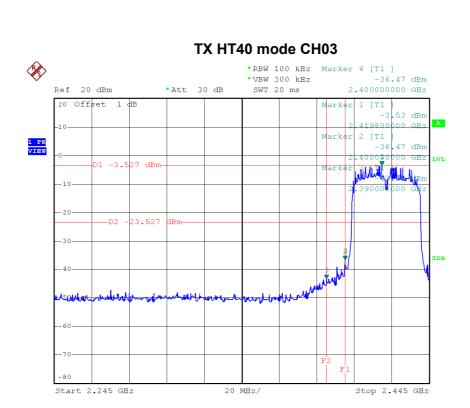
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est Mode :	TX N-40M Mode	

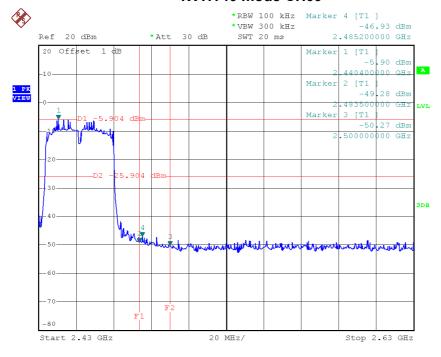
Report No.: BTL-FCCP-1-1411C044





Date: 24.NOV.2014 09:52:23

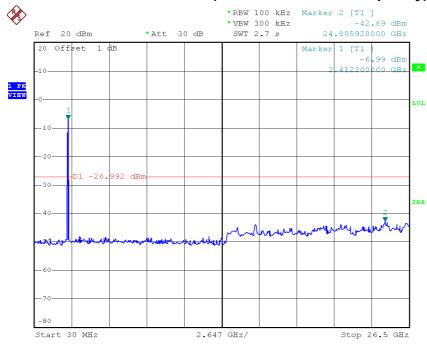
TX HT40 mode CH09



Date: 24.NOV.2014 09:54:16

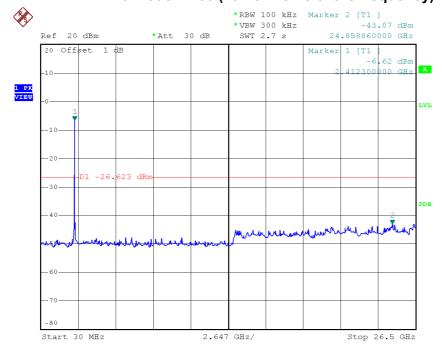






Date: 24.NOV.2014 09:52:16

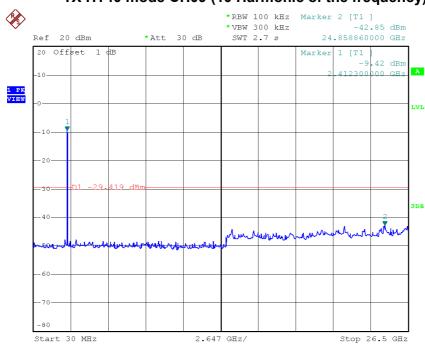
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 24.NOV.2014 09:53:18







Date: 24.NOV.2014 09:54:09

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ATTACHMENT H - POWER SPECTRAL DENSITY					

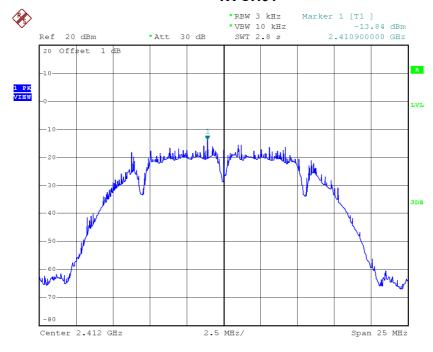
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Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.84	0.04	8.00	Complies
2437	-13.11	0.05	8.00	Complies
2462	-12.04	0.06	8.00	Complies

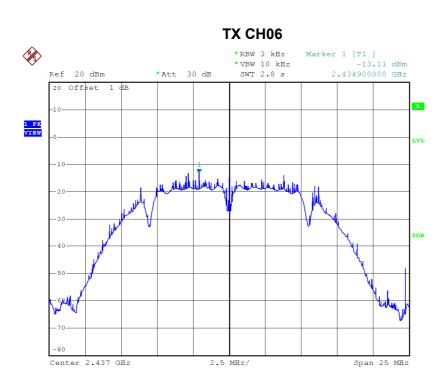
TX CH01



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Date: 24.NOV.2014 09:41:29

*REW 3 kHz Marker 1 [T1] *VBW 10 kHz -12.04 dBm Ref 20 dBm *Att 30 dB SWT 2.8 s 2.464750000 GHz 20 Offset 1 dB -10 -20 -20 -30 -40 -40 -50 -50 -60 -50 -60 -70 -80 Center 2.462 GHz 2.5 MHz/ Span 25 MHz/

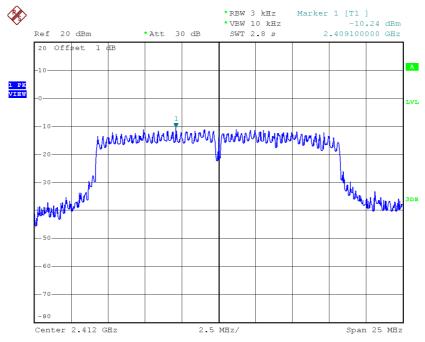
Date: 24.NOV.2014 09:42:32



Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.24	0.09	8.00	Complies
2437	-10.92	0.08	8.00	Complies
2462	-11.30	0.07	8.00	Complies

TX CH01

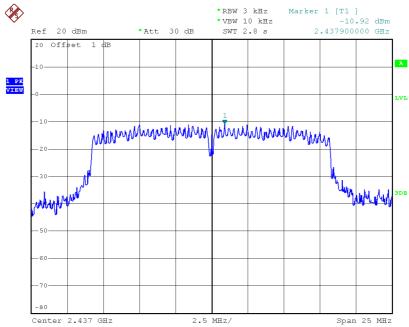


Date: 15.DEC.2014 16:33:53

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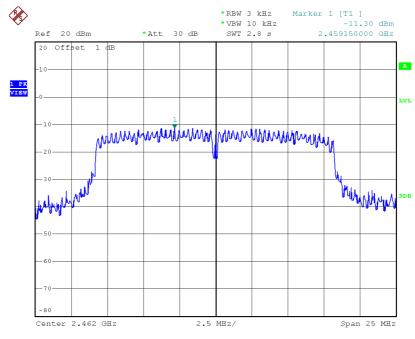






Date: 15.DEC.2014 16:34:45

TX CH11



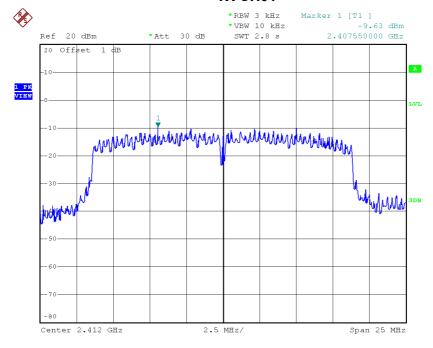
Date: 15.DEC.2014 16:36:56



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	-9.63	0.11	8.00	Complies
2437	-8.75	0.13	8.00	Complies
2462	-10.47	0.09	8.00	Complies

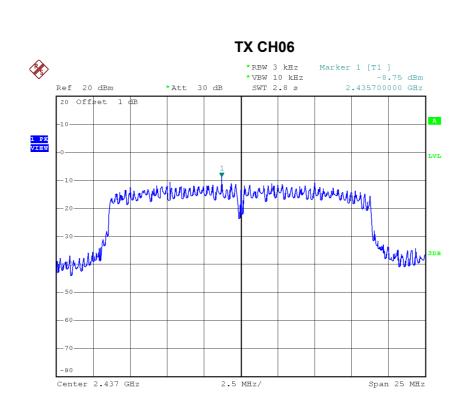
TX CH01

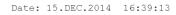


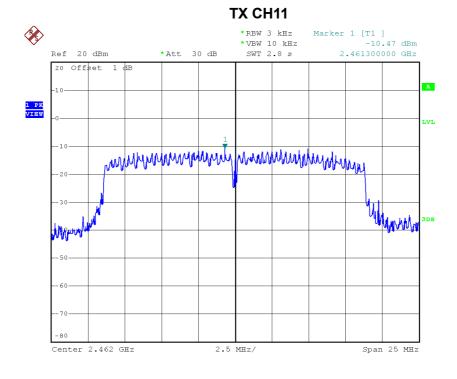
Date: 15.DEC.2014 16:38:21

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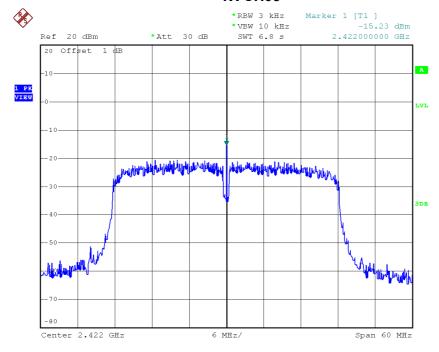
Date: 15.DEC.2014 16:40:12



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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.23	0.03	8.00	Complies
2437	-18.47	0.01	8.00	Complies
2452	-18.91	0.01	8.00	Complies

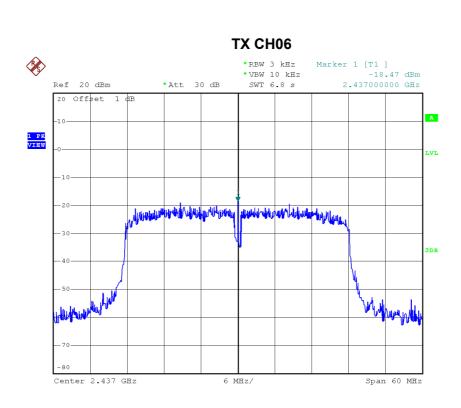
TX CH03



Date: 24.NoV.2014 09:52:36

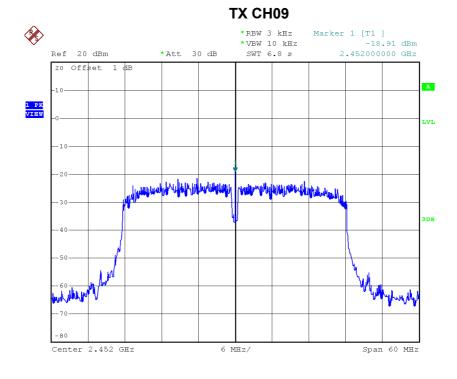
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Date: 24.NOV.2014 09:54:28



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