

FCC&IC Radio Test Report

FCC ID: Q87-RE4100W

IC: 3839A-RE4100W

This report concerns (check one): ☒ Original Grant ☐ Class II Change

Project No. : 1411127
Equipment : Wi-Fi repeater
Model Name : RE4100W
Applicant : Linksys LLC.
Address : 121 Theory Drive, Irvine, California, 92617, United States of America

Date of Receipt : Nov. 17, 2014
Date of Test : Nov. 17, 2014 ~ Dec. 06, 2014
Issued Date : Dec. 08, 2014
Tested 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-FICP-1-1411127	Original Issue.	Dec. 08, 2014

1. CERTIFICATION

Equipment : Wi-Fi repeater
Brand Name : Linksys
Model Name : RE4100W
Applicant : Linksys LLC.
Manufacturer : U-MEDIA Communications, Inc.
Address : 3F, No.1, Jin-Shan 8th St., Hsinchu 300, Taiwan, ROC
Factory : U-MEDIA Communications, Inc.
Address : NO.90, Kuang Fu Nth.Rd., Hsinchu Industrial Park, Hu Kou, Hsinchu 303,
Taiwan, R.O.C.
Date of Test : Nov. 17, 2014 ~ Dec. 06, 2014
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C: 2013 (15.247) / ANSI C63.4-2009
Canada RSS-210: 2010
RSS-GEN Issue 4, Nov 2014

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-FICP-1-1411127) 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).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2013 Canada RSS-210:2010; RSS-GEN Issue 4, Nov 2014				
Standard(s) Section		Test Item	Judgment	Under Limit
FCC	IC			
15.207	RSS-GEN 8.8	Conducted Emission	PASS	Limit Minimum passing margin is -3.98 dB at 0.572 MHz
15.247(d)	RSS-210 Annex 8 (A8.5)	Radiated Emissions	PASS	Limit Minimum passing margin is -5.10 dB at 4874.12 MHz
15.247(d)	RSS-210 Annex 8 (A8.5)	Band Edge Emissions	PASS	Limit Minimum passing margin is -1.01 dB at 2483.50 MHz
15.247(a)(2)	RSS-210 Annex 8 (A8.2(a))	6dB Bandwidth	PASS	-
15.247(b)(3)	RSS-210 Annex 8 (A8.4(4))	Peak Output Power	PASS	Limit Minimum passing margin is -2.45 dB at 2437 MHz
15.247(d)	RSS-210 Annex 8 (A8.5)	Antenna conducted Spurious Emission	PASS	-
15.203	-	Antenna Requirement	PASS	-
15.247(e)	RSS-210 Annex 8 (A8.2(b))	Power Spectral Density	PASS	-

NOTE:

(1) "N/A" denotes test is not applicable to this device.

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

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

BTL's test firm number for IC: 4428B-1

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 %.

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
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wi-Fi repeater	
Brand Name	Linksys	
Model Name	RE4100W	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	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
	Output Power (Max.)	802.11b: 22.45dBm 802.11g: 25.31dBm 802.11n(20MHz): 27.55dBm 802.11n(40MHz): 25.95dBm
Power Source	AC mains. Power board: 1) Brand / Model: HON-KWANG / HKSC-141145 2) Brand / Model: KUANTECH / KS045858	
Power Rating	I/P: AC 100-240V 50/60Hz O/P: DC 5V 2.0A	

Note:

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

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)	Note
1	N/A	N/A	Internal	N/A	1.00	TX/RX
2	N/A	N/A	Internal	N/A	1.00	TX/RX

Note:

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

4.

Operating Mode	1TX	2TX
TX Mode		
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)

Note: For IEEE 802.11b/g mode (1TX/1RX):

The EUT supports the antenna with TX and RX diversity functions.

Both Ant. 1 and Ant. 2 support transmit and receive functions, but only one of them will be used at one time.

The Ant. 1 generated the worst case, so it was selected to test and record in the report.

For IEEE 802.11n mode (2TX/2RX):

Both Ant. 1 and Ant. 2 can be used as transmitting/receiving antenna.

Ant. 1 and Ant. 2 could both transmit/receive simultaneously.

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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	Normal Link

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	Normal Link

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

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 Conducted 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

Antenna conducted Spurious Emission	
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:

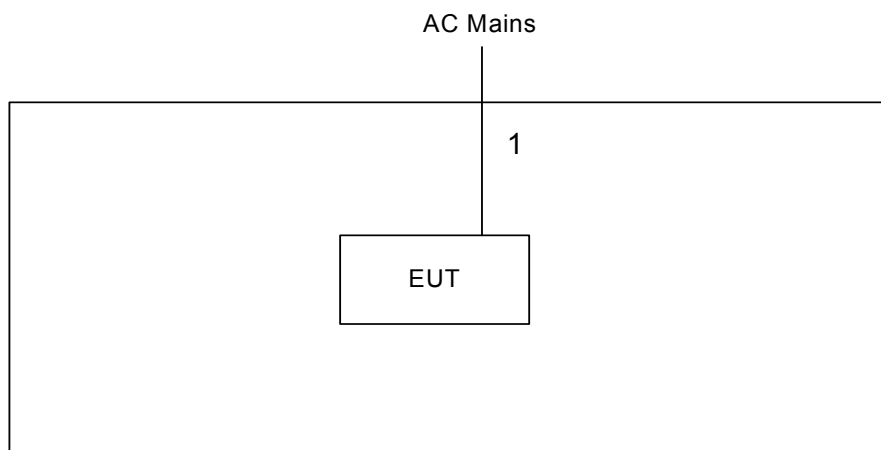
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For 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%.
- (5) The EUT was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

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	QA_Tool 2.4G		
Frequency (MHz)	2412	2437	2462
802.11b	24	1F	25
802.11g	21	23	22
802.11n (20MHz)	1F	24	22
Frequency	2422	2437	2452
802.11n (40MHz)	1F	20	1B

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
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi pea	Average
0.15 -0.	66 to 56*	56 to 4 *
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

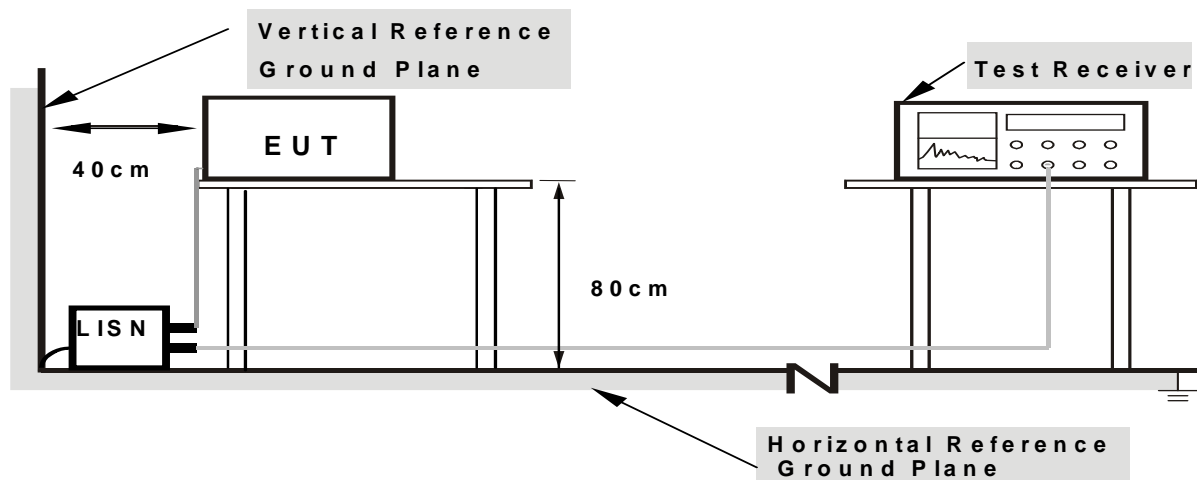
4.1.2 TEST PROCEDURE

- 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

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.

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) & RSS-210 section 2.2& Annex 8 (A8.5), then the 15.209(a)& RSS-Gen limit in the table below has to be followed.

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

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

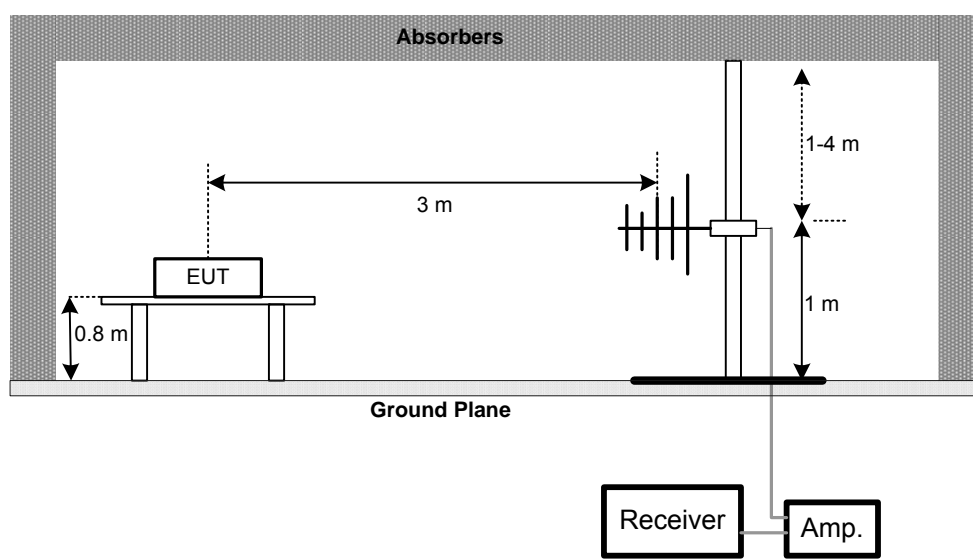
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

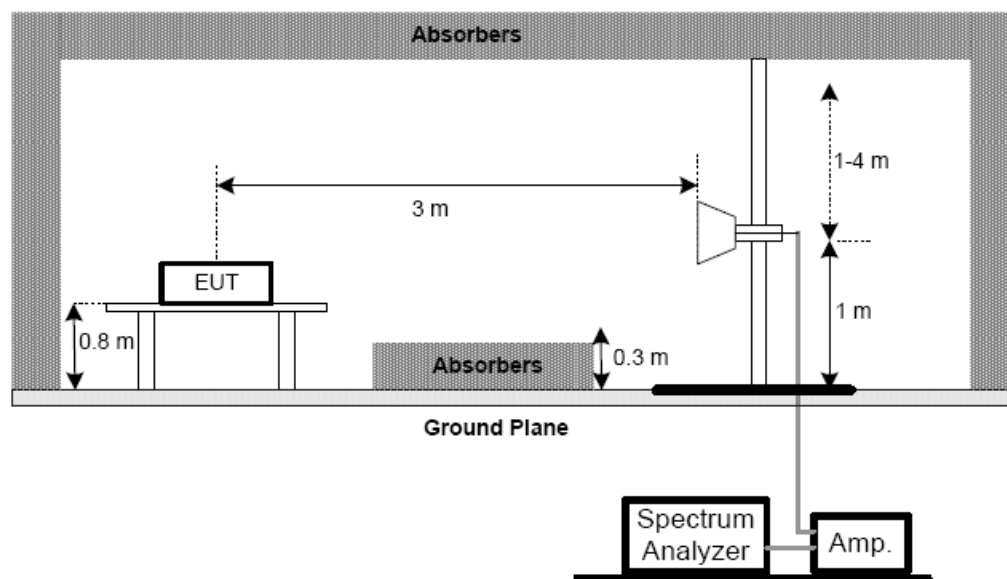
No deviation

4.2.4 TEST SETUP

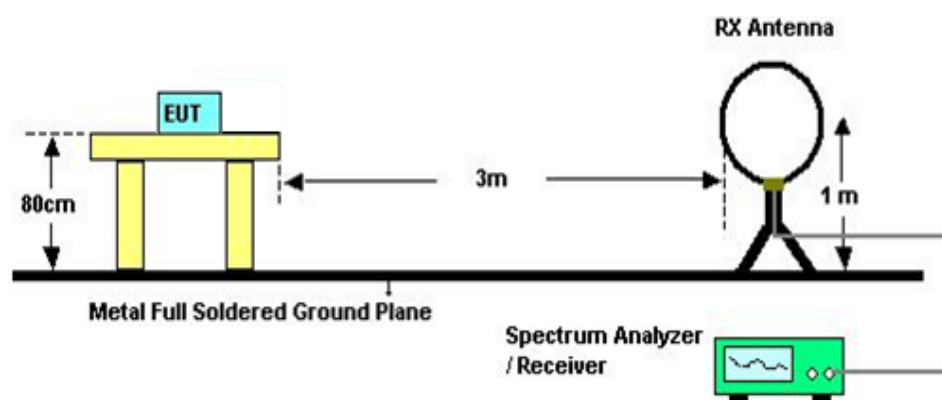
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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 = $40 \log (\text{specific distance} / \text{test distance})$ (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 (1GHZ~10TH HARMONIC)

Please refer to the Attachment D.

4.3 BAND EDGE MEASUREMENT

4.3.1 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) & RSS-210 section 2.2& Annex 8 (A8.5), then the 15.209(a)& RSS-Gen limit in the table below has to be followed.

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

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

4.3.2 TEST PROCEDURE

For Radiated band edges Measurement:

- a. The test procedure is the same as section 4.2.2, only the frequency range investigated is limited to 100MHz around band edges.

For Radiated Out of Band Emission Measurement:

- a. Test was performed in accordance with KDB 558074 D01 v03r02 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10.1 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure.

4.3.3 TEST SETUP LAYOUT

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.2.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.2.4.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.3.6 TEST RESULTS (BAND EDGE AND FUNDAMENTAL EMISSIONS)

Please refer to the Attachment E.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-210			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2) RSS-GEN section 6.6 RSS-210 Annex 8 (A8.2(a))	Bandwidth	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



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 F.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C/ RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-210 Annex 8.4(4)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

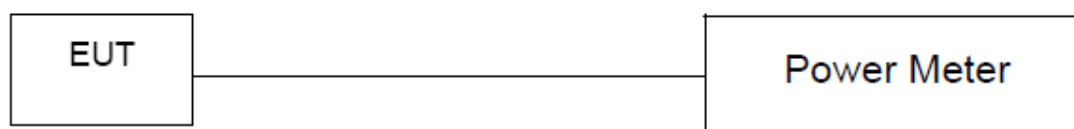
6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- 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



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 G.

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.

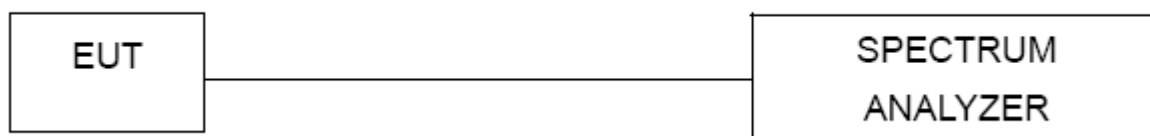
7.1.1 TEST PROCEDURE

- 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



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 H.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C / RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-210 Annex 8(A8.2(b))	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



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 I.

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 Emission & Band edge Measurement					
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	CT	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

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.

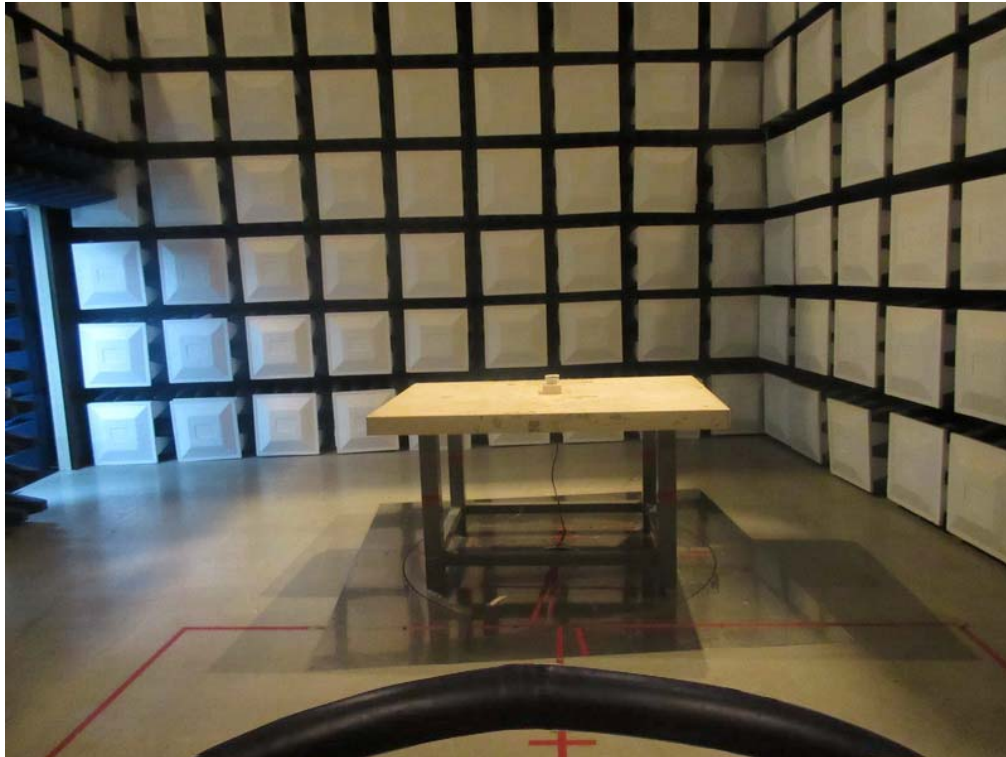
10. EUT TEST PHOTO

Conducted Measurement Photos



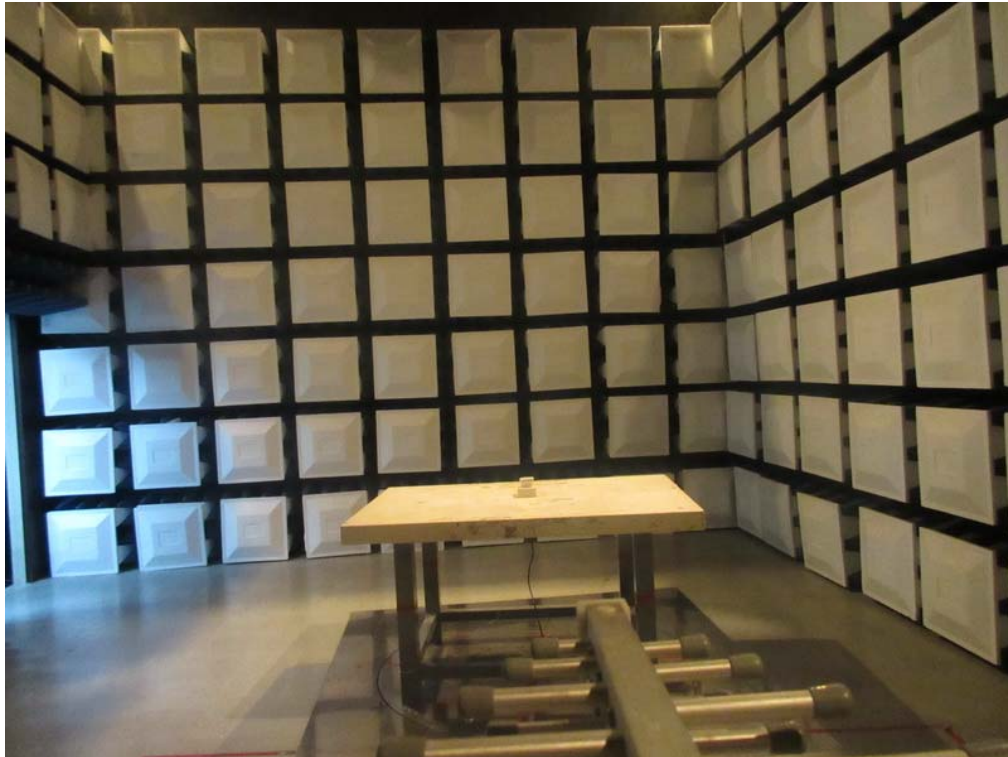
Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

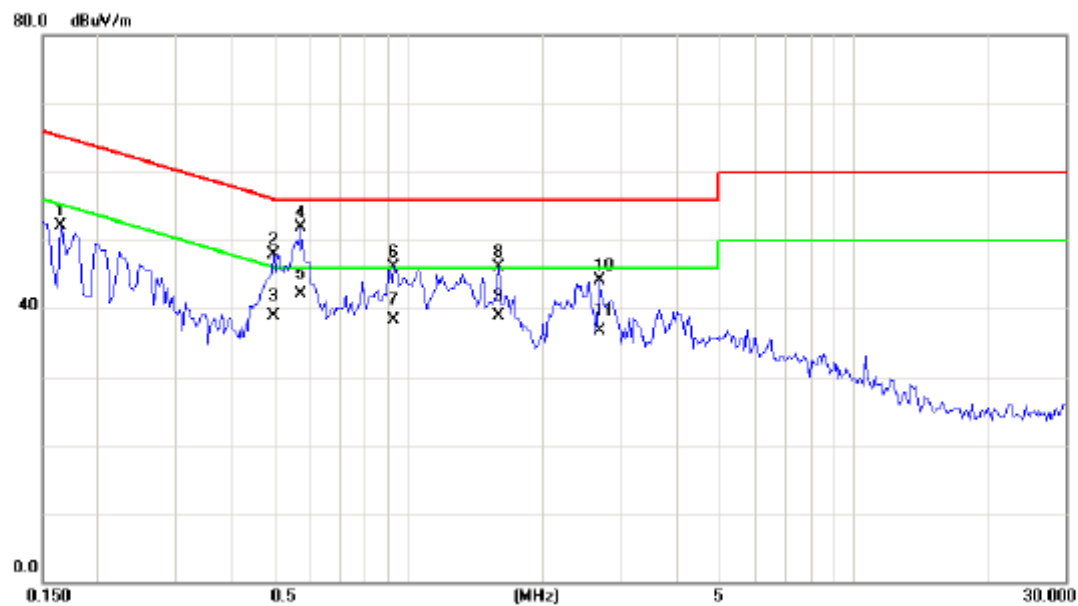
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

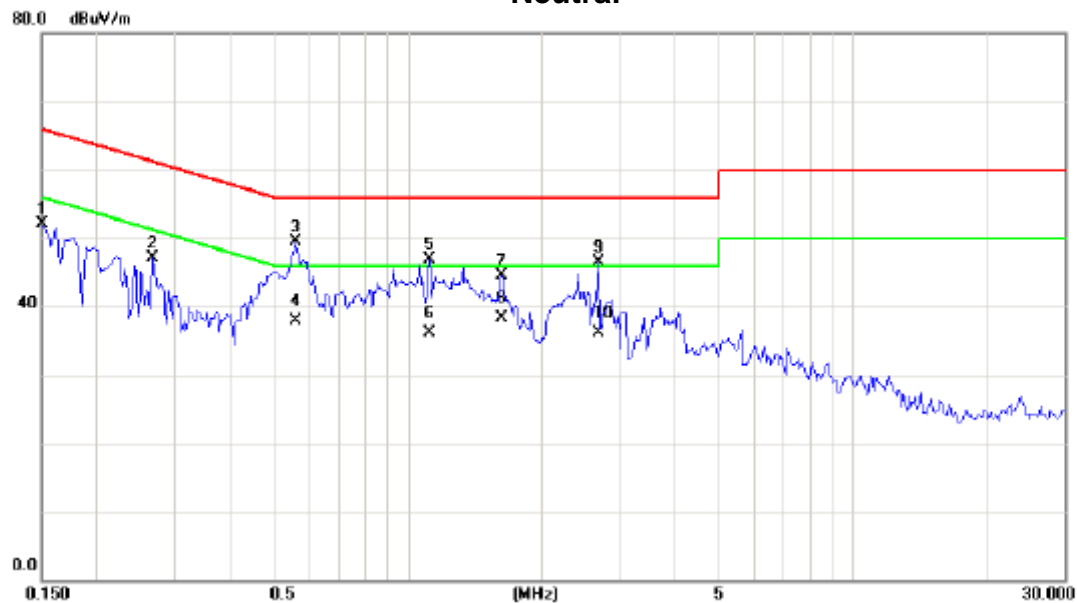
Line



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1655	42.55	9.49	52.04	65.18	-13.14	peak	
2		0.4976	38.35	9.64	47.99	56.04	-8.05	peak	
3		0.4977	29.27	9.64	38.91	46.04	-7.13	AVG	
4		0.5718	42.24	9.60	51.84	56.00	-4.16	peak	
5	*	0.5720	32.42	9.60	42.02	46.00	-3.98	AVG	
6		0.9234	36.59	9.61	46.20	56.00	-9.80	peak	
7		0.9234	28.66	9.61	38.27	46.00	-7.73	AVG	
8		1.5953	36.48	9.61	46.09	56.00	-9.91	peak	
9		1.5953	29.31	9.61	38.92	46.00	-7.08	AVG	
10		2.6851	34.46	9.61	44.07	56.00	-11.93	peak	
11		2.6852	27.19	9.61	36.80	46.00	-9.20	AVG	

Test Mode : Normal Link

Neutral



No. Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.1500	42.59	9.59	52.18	66.00	-13.82	peak	
2	0.2671	37.44	9.57	47.01	61.21	-14.20	peak	
3 *	0.5601	39.83	9.58	49.41	56.00	-6.59	peak	
4	0.5601	28.36	9.58	37.94	46.00	-8.06	AVG	
5	1.1187	37.31	9.60	46.91	56.00	-9.09	peak	
6	1.1187	26.57	9.60	36.17	46.00	-9.83	AVG	
7	1.6304	34.85	9.62	44.47	56.00	-11.53	peak	
8	1.6304	28.63	9.62	38.25	46.00	-7.75	AVG	
9	2.6890	36.93	9.64	46.57	56.00	-9.43	peak	
10	2.6890	26.37	9.64	36.01	46.00	-9.99	AVG	

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

Test Mode: TX B MODE CHANNEL 01

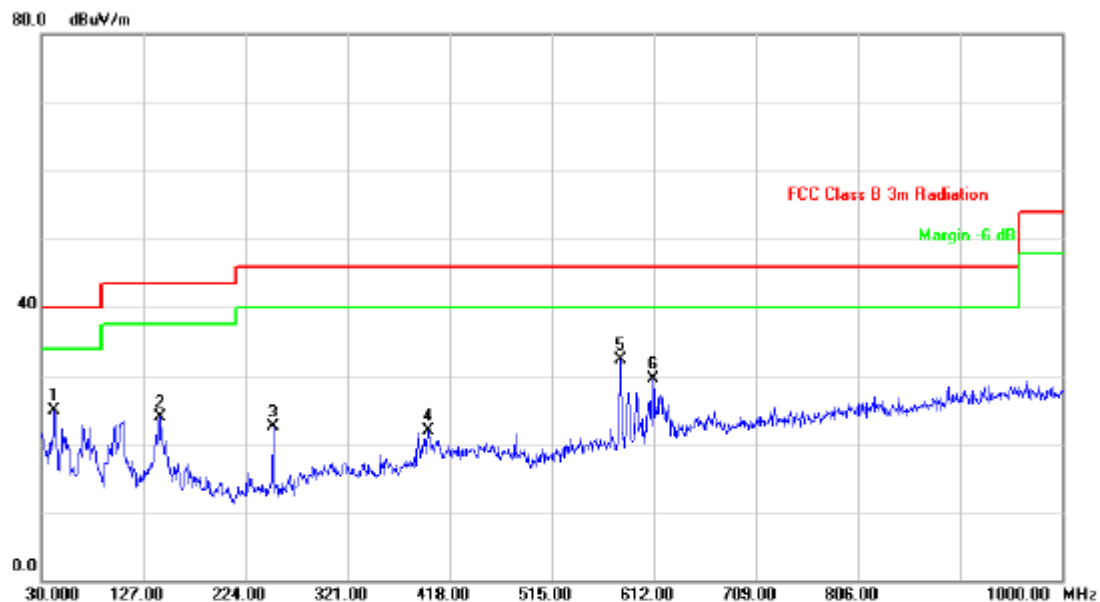
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0086	0°	13.52	25.02	38.54	108.91	-70.37	AVG
0.0086	0°	14.45	25.02	39.47	128.91	-89.44	PEAK
0.0129	0°	6.41	24.75	31.16	105.39	-74.23	AVG
0.0129	0°	7.38	24.75	32.13	125.39	-93.26	PEAK
0.0255	0°	3.49	23.95	27.44	99.47	-72.03	AVG
0.0255	0°	5.32	23.95	29.27	119.47	-90.20	PEAK
0.0321	0°	0.95	23.53	24.48	97.47	-72.99	AVG
0.0331	0°	2.94	23.53	26.47	117.47	-91.00	PEAK
0.5750	0°	30.76	20.04	50.80	72.41	-21.61	QP
1.7562	0°	21.46	19.52	40.98	69.54	-28.56	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0088	90°	13.42	24.30	37.72	128.71	-90.99	AVG
0.0088	90°	14.37	24.30	38.67	148.71	-110.04	PEAK
0.0249	90°	6.35	23.99	30.34	119.68	-89.34	AVG
0.0249	90°	8.58	23.99	32.57	139.68	-107.11	PEAK
0.0323	90°	3.49	23.52	27.01	117.42	-90.41	AVG
0.0323	90°	5.28	23.52	28.80	137.42	-108.62	PEAK
0.0461	90°	0.54	22.65	23.19	114.33	-91.14	AVG
0.0461	90°	2.82	22.65	25.47	134.33	-108.86	PEAK
0.4934	90°	30.77	19.82	50.59	73.74	-23.15	QP
1.7169	90°	21.53	19.53	41.06	69.54	-28.48	QP

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

Test Mode: TX B MODE CHANNEL 01

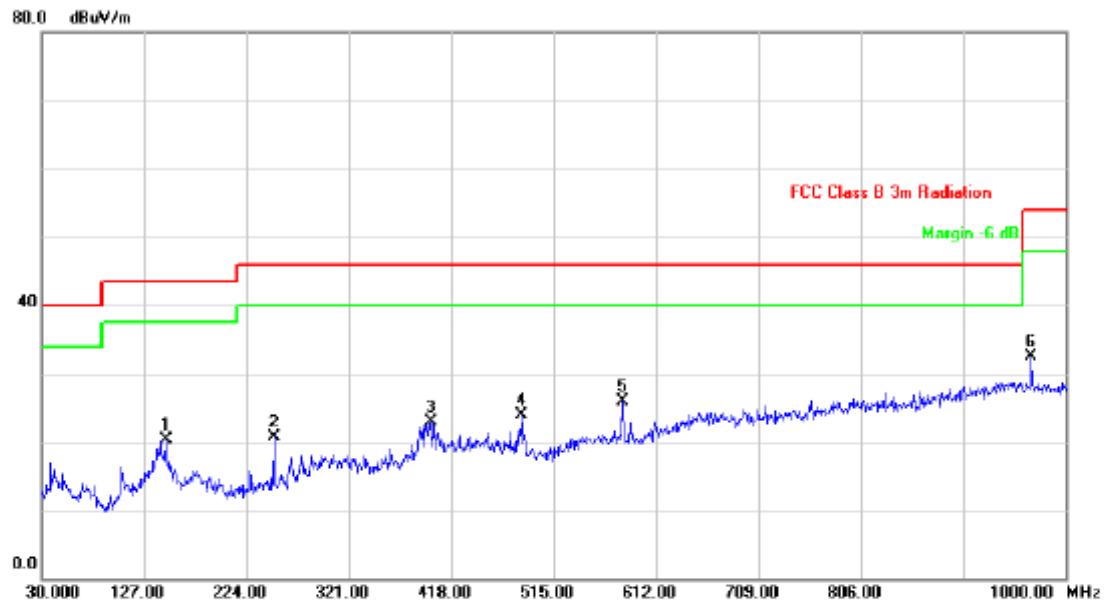
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		42.6100	38.74	-13.88	24.86	40.00	-15.14	peak	
2		142.5200	37.14	-13.17	23.97	43.50	-19.53	peak	
3		250.1900	36.62	-14.02	22.60	46.00	-23.40	peak	
4		397.6300	31.47	-9.63	21.84	46.00	-24.16	peak	
5	*	579.9900	40.31	-7.92	32.39	46.00	-13.61	peak	
6		611.0300	36.83	-7.30	29.53	46.00	-16.47	peak	

Test Mode: TX B MODE CHANNEL 01

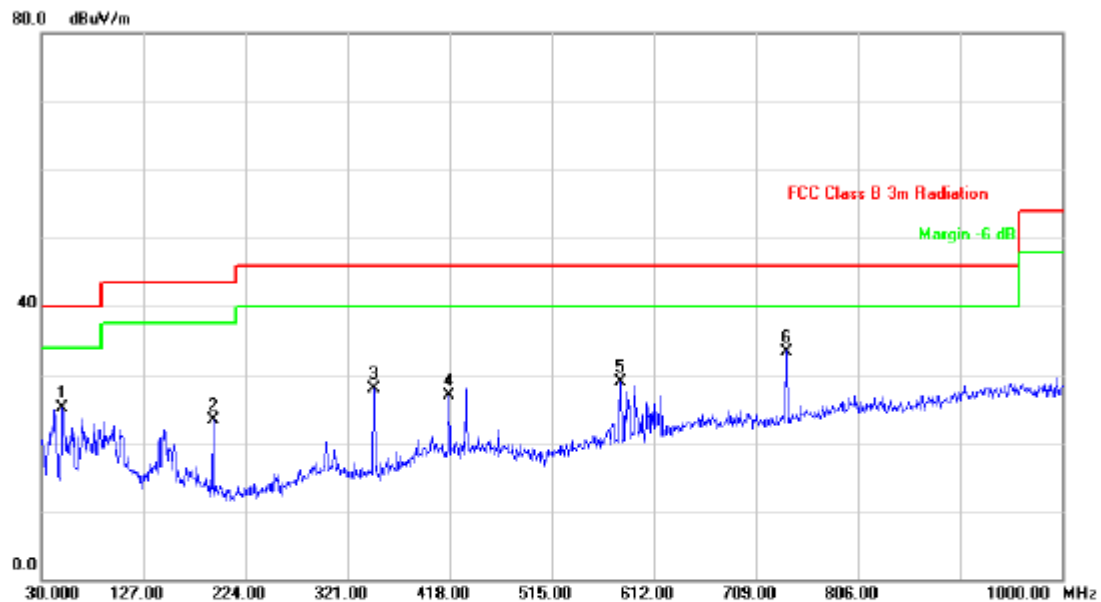
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		148.3400	33.50	-13.18	20.32	43.50	-23.18	peak	
2		250.1900	34.75	-14.02	20.73	46.00	-25.27	peak	
3		398.6000	32.49	-9.60	22.89	46.00	-23.11	peak	
4		484.9300	33.82	-9.95	23.87	46.00	-22.13	peak	
5	*	579.9900	33.78	-7.92	25.86	46.00	-20.14	peak	
6		967.0200	32.86	-0.28	32.58	54.00	-21.42	peak	

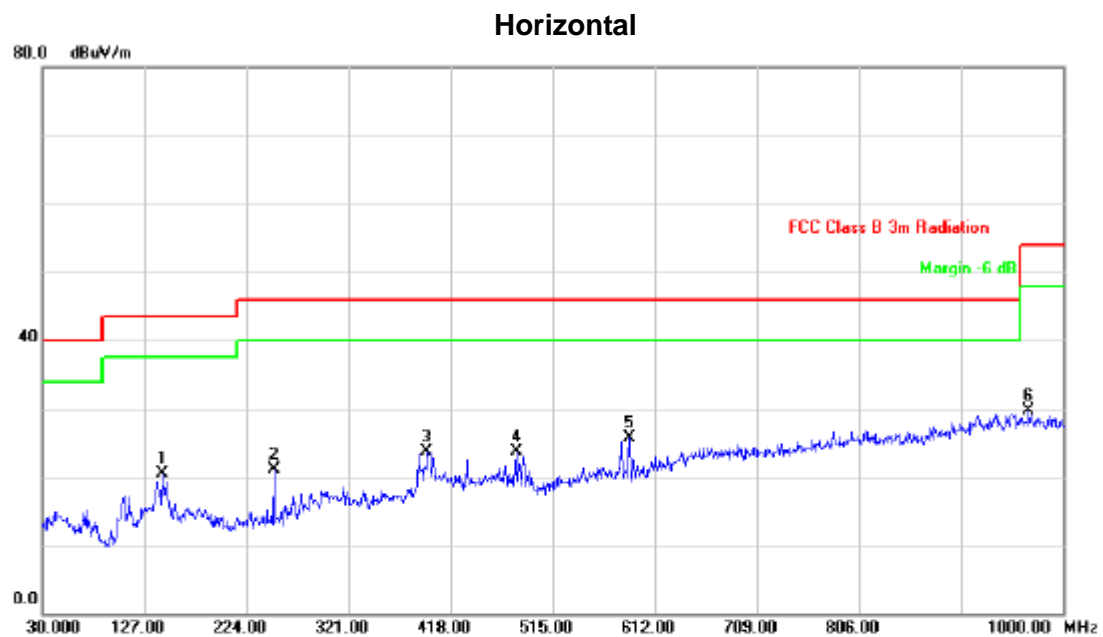
Test Mode: TX B MODE CHANNEL 06

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		50.3700	39.29	-14.09	25.20	40.00	-14.80	peak	
2		192.9600	37.83	-14.54	23.29	43.50	-20.21	peak	
3		346.2200	39.63	-11.73	27.90	46.00	-18.10	peak	
4		417.0300	36.09	-9.22	26.87	46.00	-19.13	peak	
5		579.9900	36.76	-7.92	28.84	46.00	-17.16	peak	
6	*	738.1000	38.09	-4.69	33.40	46.00	-12.60	peak	

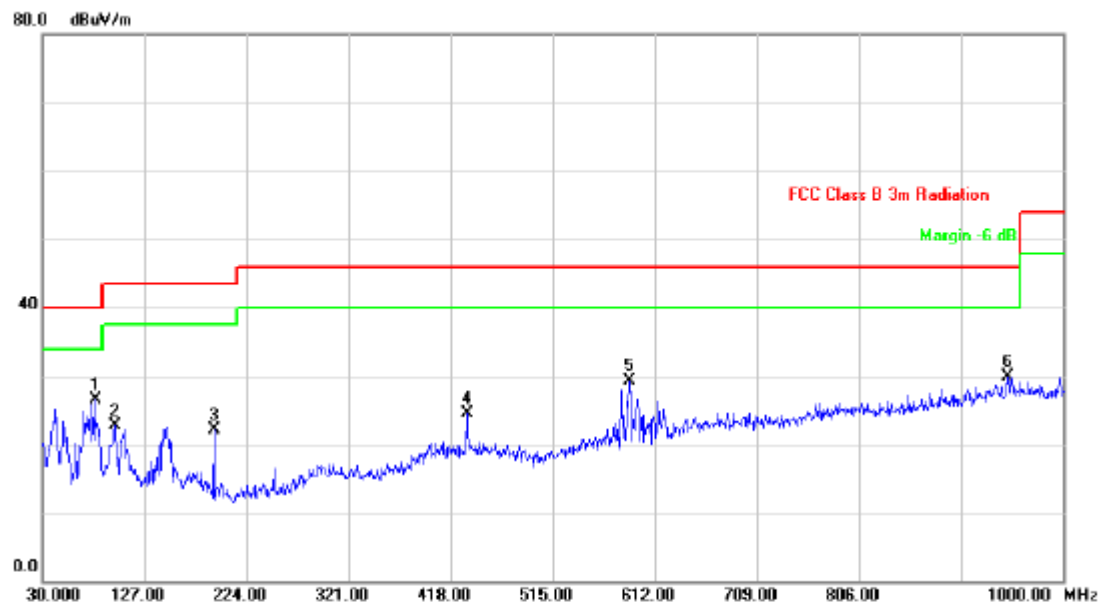
Test Mode: TX B MODE CHANNEL 06



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		144.4600	33.58	-13.16	20.42	43.50	-23.08	peak	
2		250.1900	35.17	-14.02	21.15	46.00	-24.85	peak	
3		395.6900	33.50	-9.73	23.77	46.00	-22.23	peak	
4		480.0800	33.42	-9.76	23.66	46.00	-22.34	peak	
5	*	587.7500	33.56	-7.92	25.64	46.00	-20.36	peak	
6		967.0200	30.07	-0.28	29.79	54.00	-24.21	peak	

Test Mode: TX B MODE CHANNEL 11

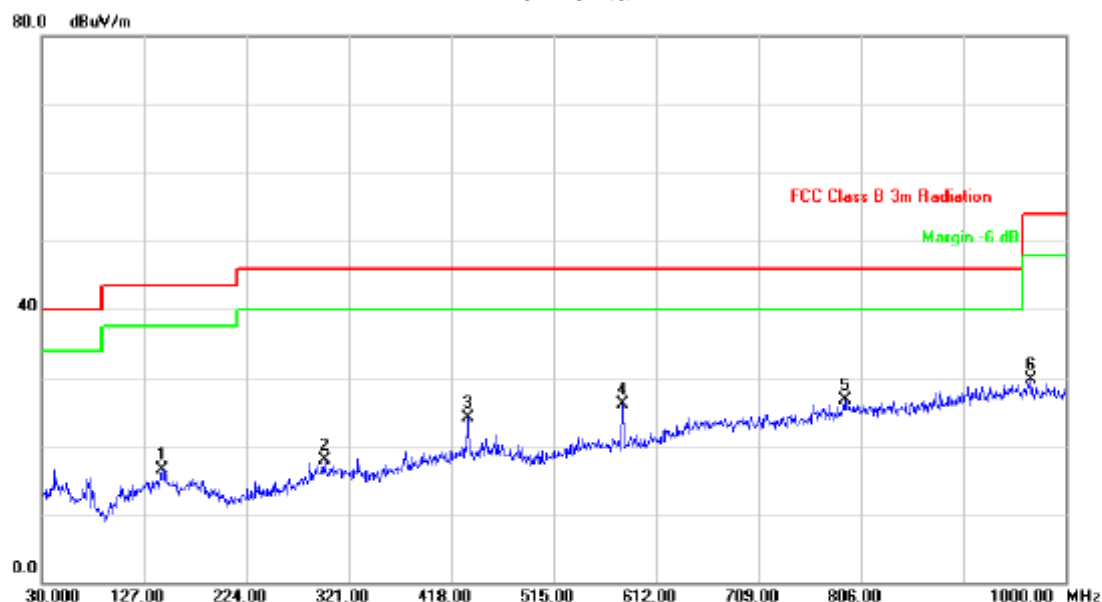
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	80.4400	43.78	-17.18	26.60	40.00	-13.40	peak	
2		98.8700	39.28	-16.55	22.73	43.50	-20.77	peak	
3		192.9600	36.72	-14.54	22.18	43.50	-21.32	peak	
4		433.5200	33.44	-8.92	24.52	46.00	-21.48	peak	
5		587.7500	37.14	-7.92	29.22	46.00	-16.78	peak	
6		947.6200	30.14	-0.28	29.86	46.00	-16.14	peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

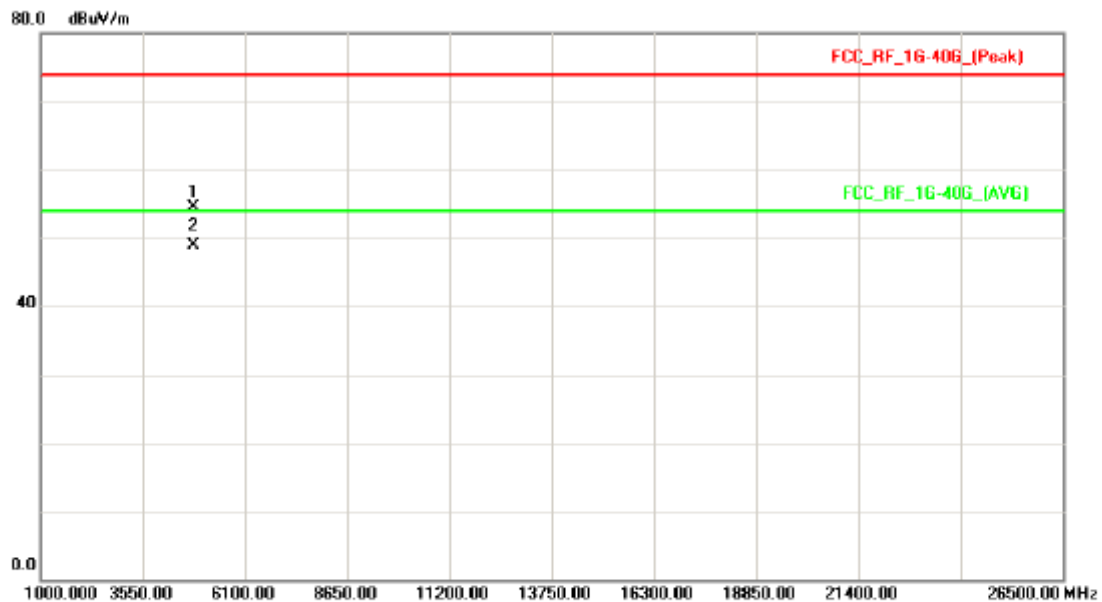


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		144.4600	29.73	-13.16	16.57	43.50	-26.93	peak	
2		297.7200	28.89	-11.03	17.86	46.00	-28.14	peak	
3		433.5200	33.10	-8.92	24.18	46.00	-21.82	peak	
4		579.9900	34.07	-7.92	26.15	46.00	-19.85	peak	
5	*	790.4800	29.97	-3.22	26.75	46.00	-19.25	peak	
6		967.0200	29.92	-0.28	29.64	54.00	-24.36	peak	

ATTACHMENT D - RADIATED EMISSION (1GHZ~10TH HARMONIC)

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

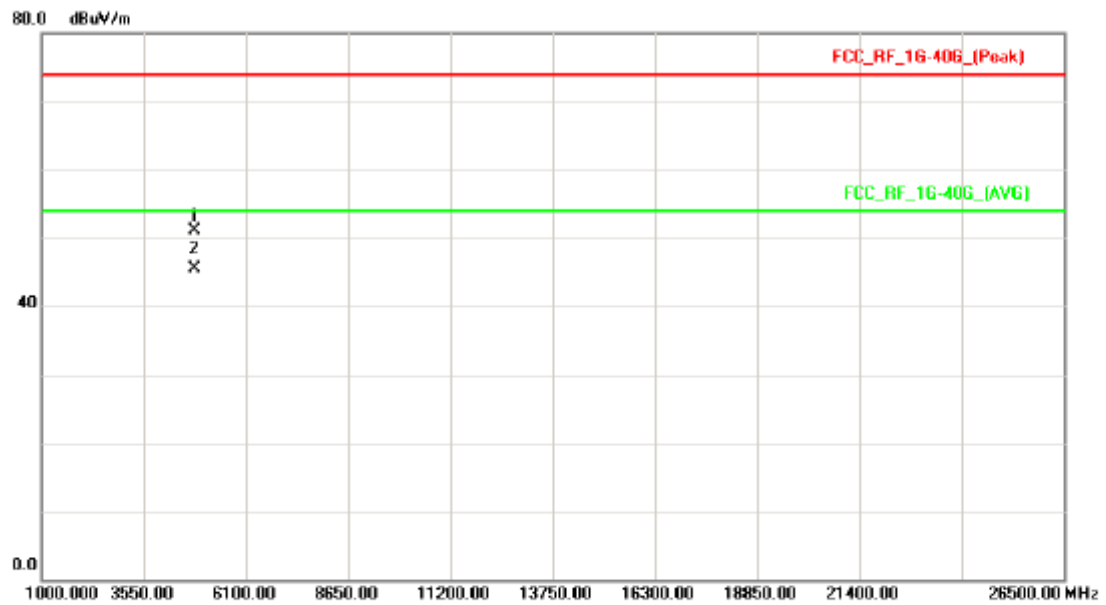
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.040	48.11	6.44	54.55	74.00	-19.45	peak	
2	*	4824.040	42.45	6.44	48.89	54.00	-5.11	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

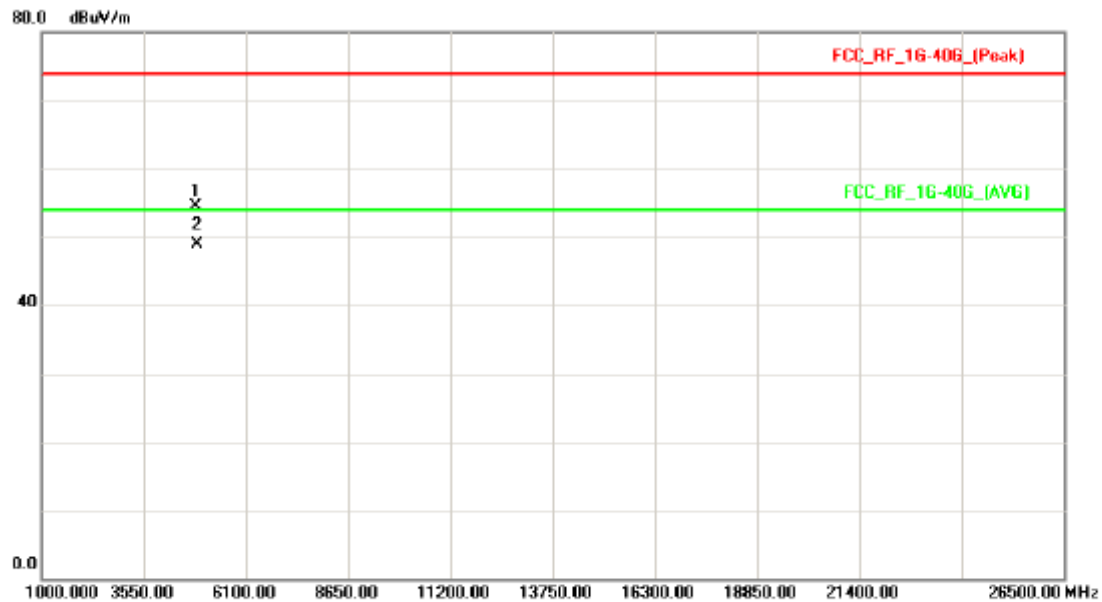
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.120	44.69	6.44	51.13	74.00	-22.87	peak	
2	*	4824.120	39.06	6.44	45.50	54.00	-8.50	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

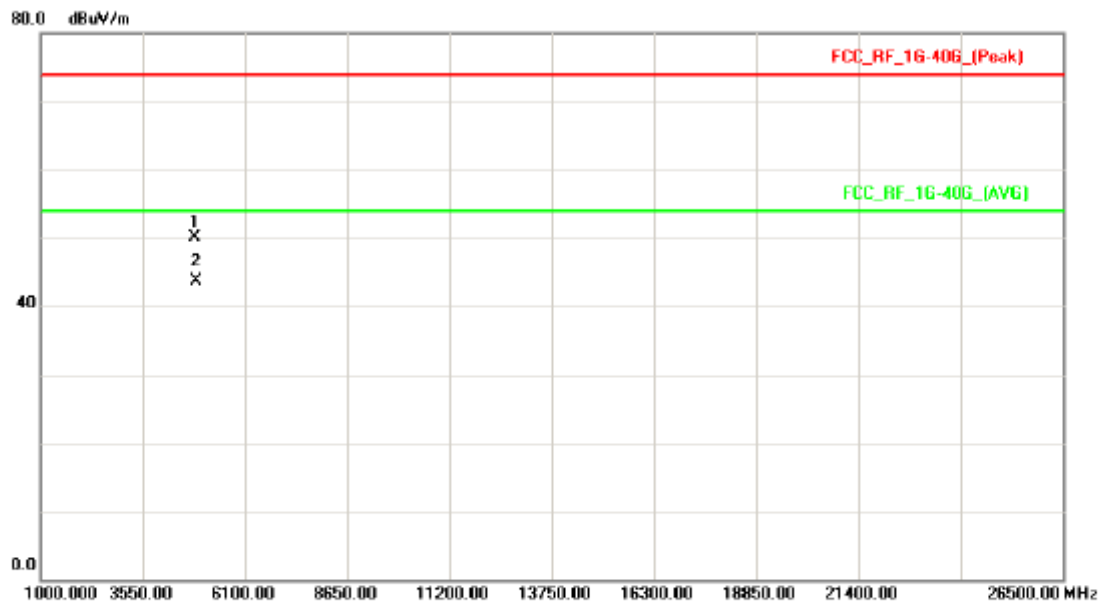
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.120	47.88	6.55	54.43	74.00	-19.57	peak	
2	*	4874.120	42.35	6.55	48.90	54.00	-5.10	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

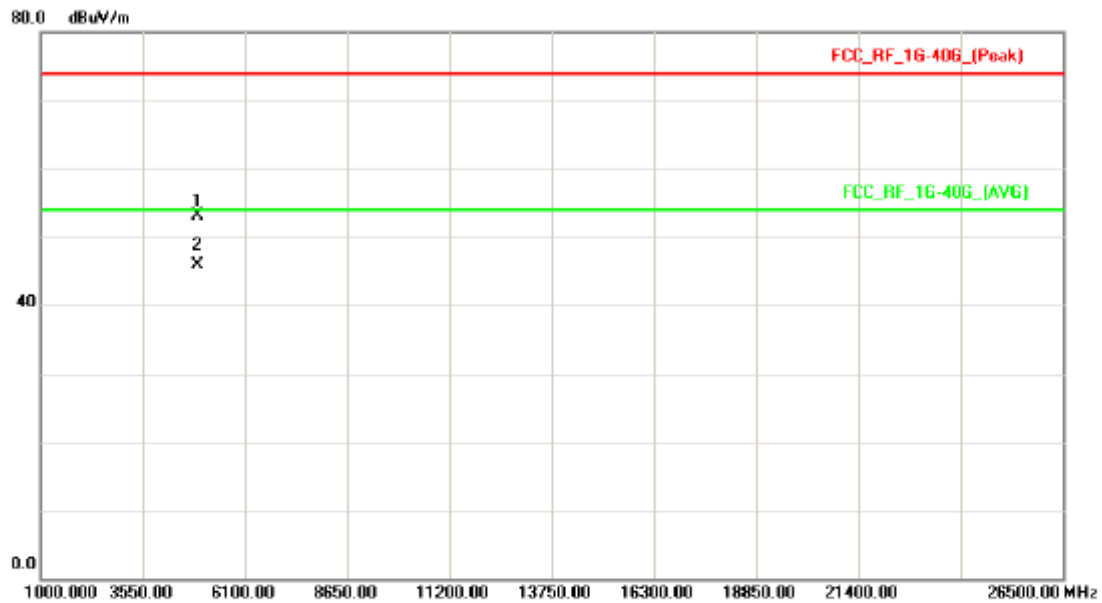
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.240	43.47	6.55	50.02	74.00	-23.98	peak	
2	*	4874.240	37.19	6.55	43.74	54.00	-10.26	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

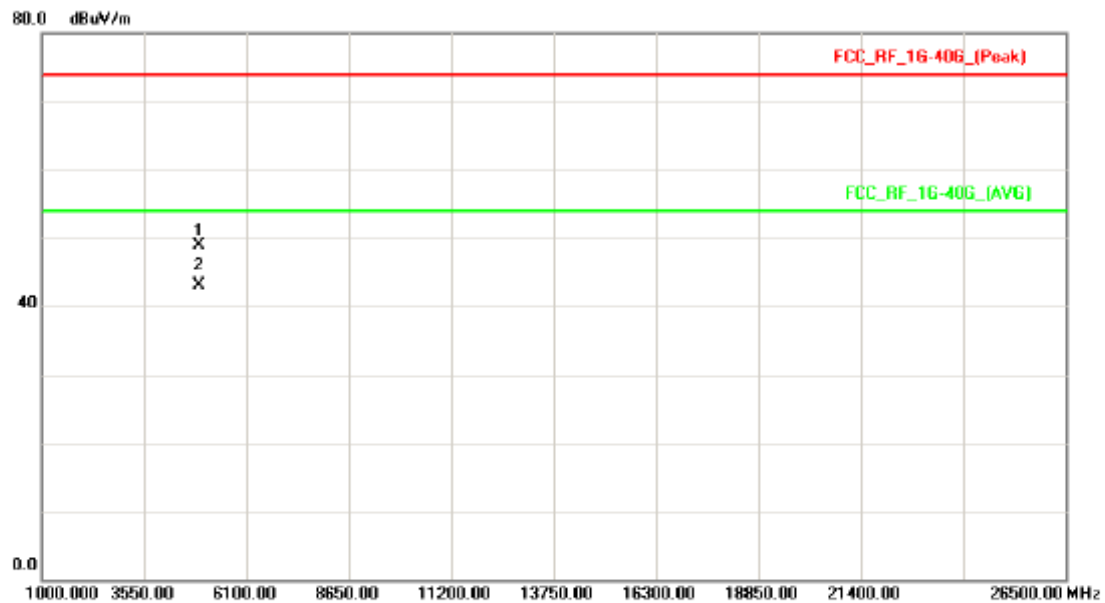
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.820	46.41	6.66	53.07	74.00	-20.93	peak	
2	*	4923.820	39.23	6.66	45.89	54.00	-8.11	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

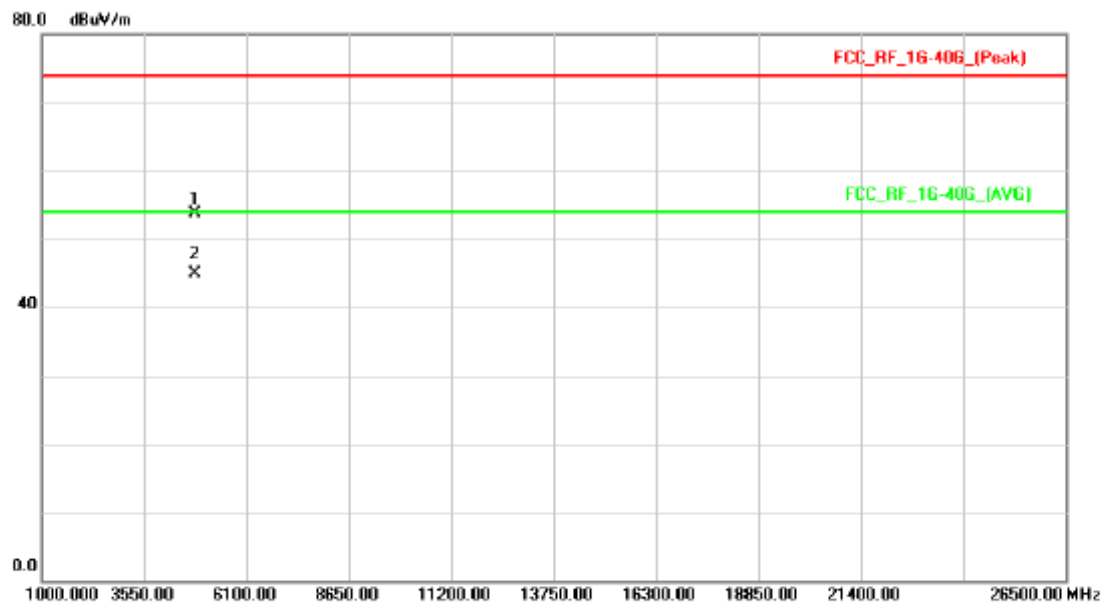
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.180	42.27	6.66	48.93	74.00	-25.07	peak	
2	*	4924.180	36.41	6.66	43.07	54.00	-10.93	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

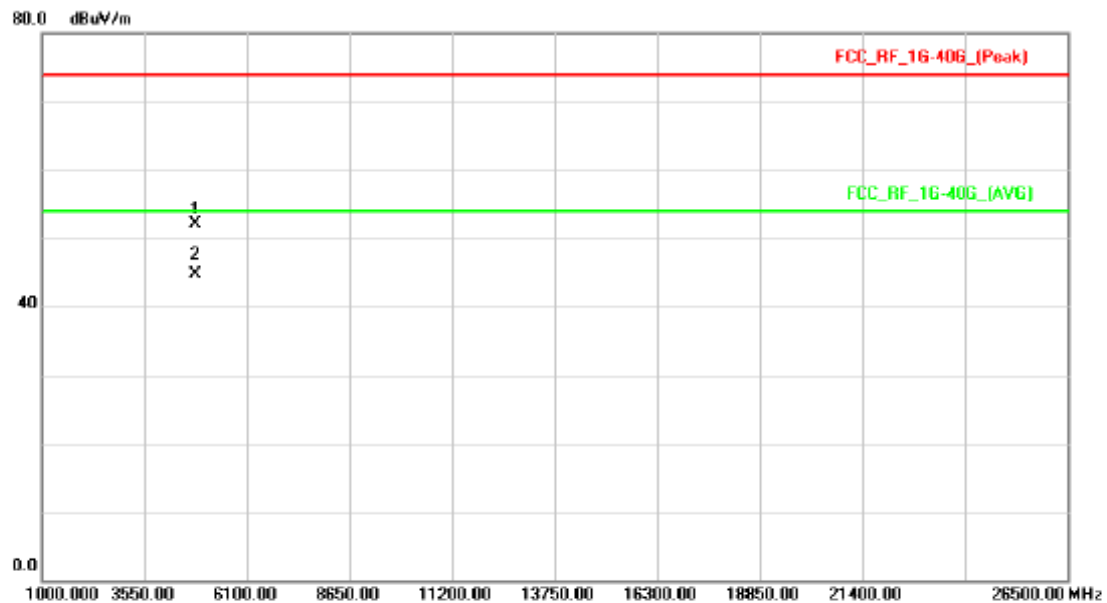
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.647	47.24	6.44	53.68	74.00	-20.32	peak	
2	*	4824.647	38.53	6.44	44.97	54.00	-9.03	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

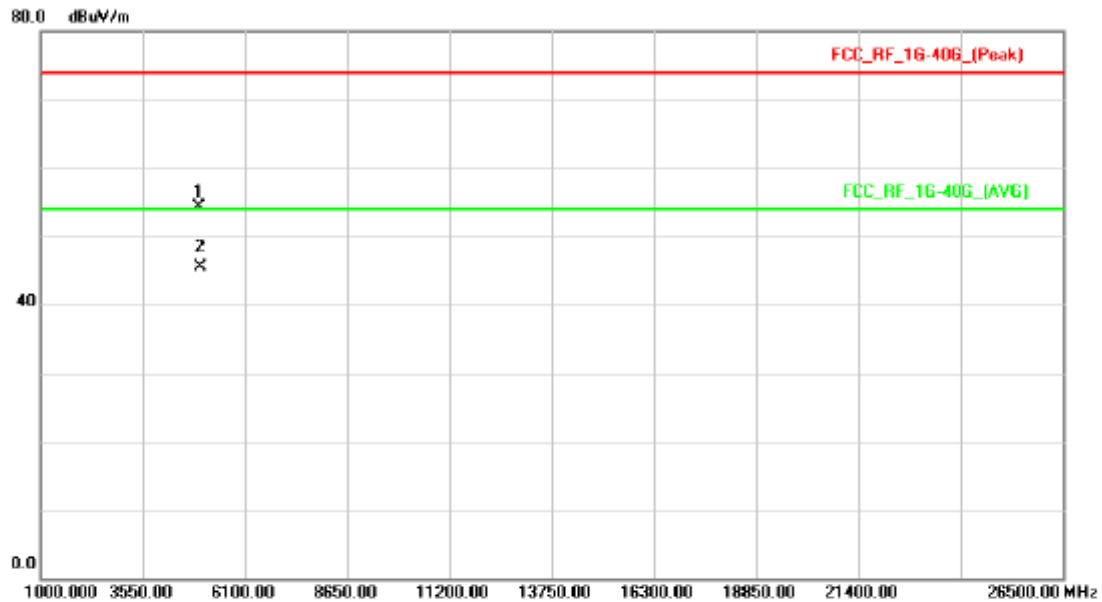
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.236	45.65	6.44	52.09	74.00	-21.91	peak	
2	*	4824.236	38.21	6.44	44.65	54.00	-9.35	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

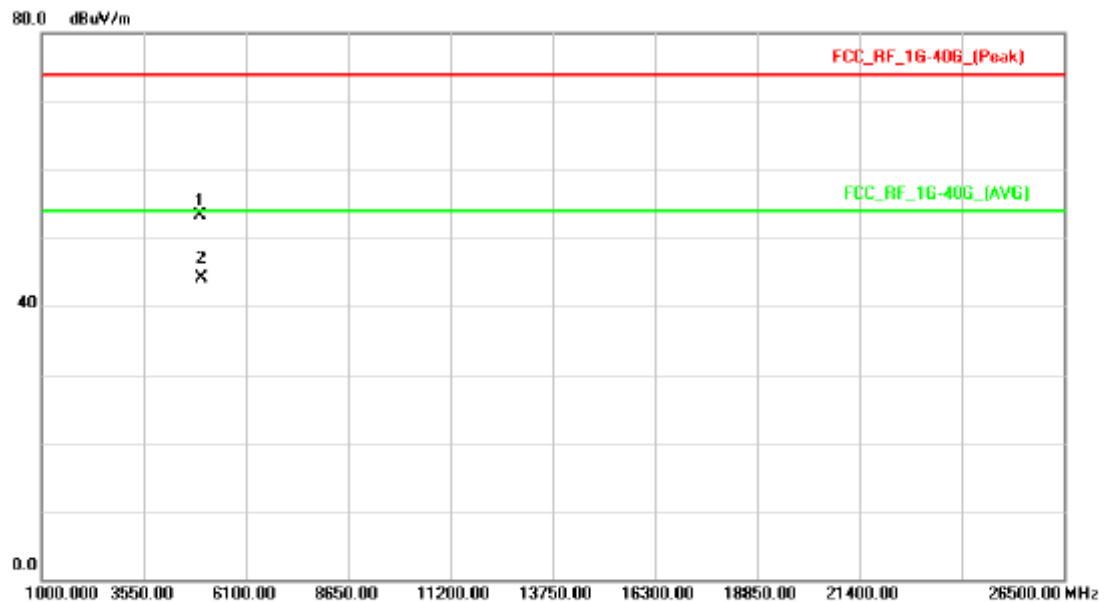
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.554	47.54	6.77	54.31	74.00	-19.69	peak	
2	*	4874.554	38.79	6.77	45.56	54.00	-8.44	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

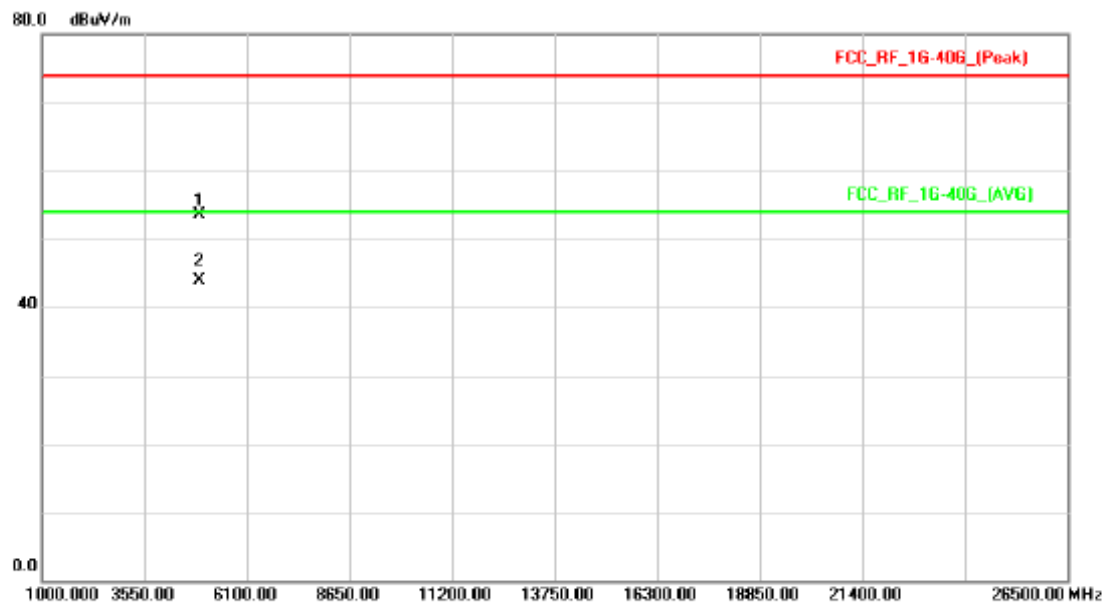
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.546	46.54	6.77	53.31	74.00	-20.69	peak	
2	*	4874.546	37.36	6.77	44.13	54.00	-9.87	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

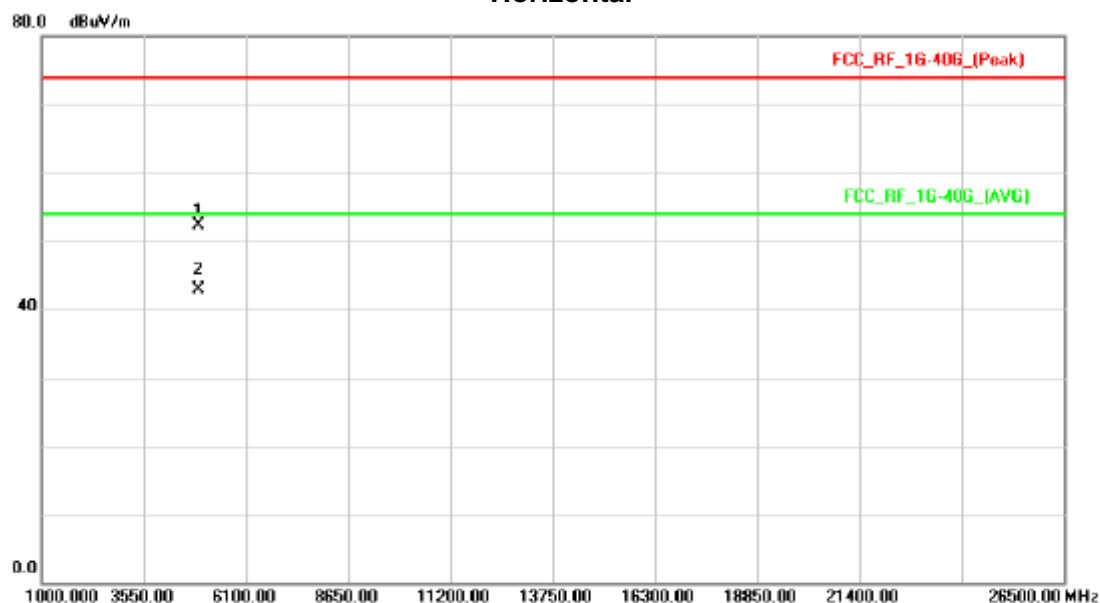
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.654	46.87	6.66	53.53	74.00	-20.47	peak	
2	*	4924.654	37.29	6.66	43.95	54.00	-10.05	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

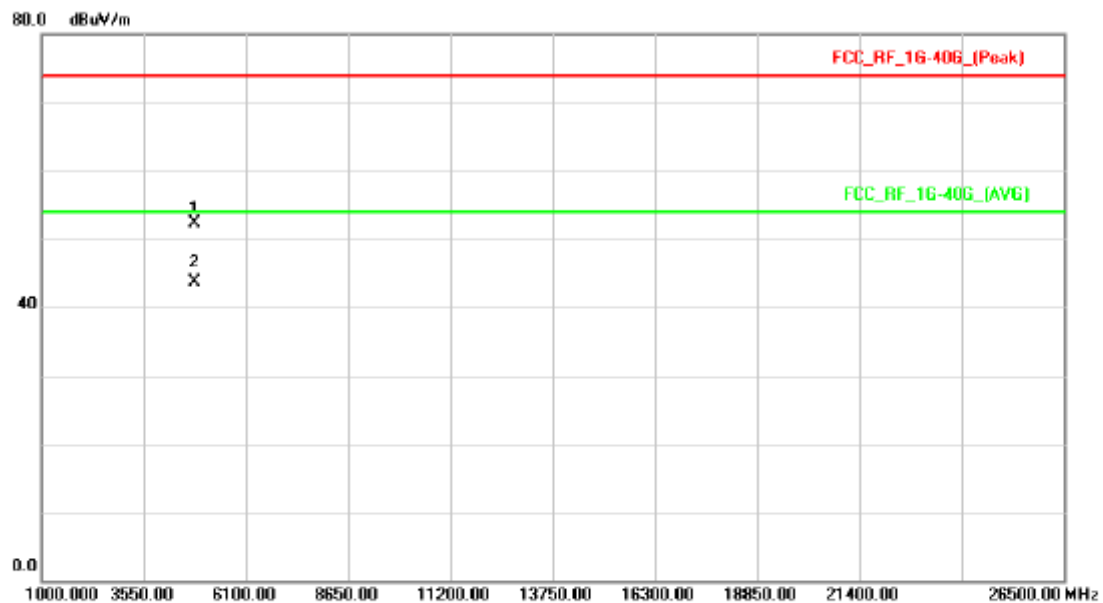
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.698	45.58	6.66	52.24	74.00	-21.76	peak	
2	*	4923.698	36.25	6.66	42.91	54.00	-11.09	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

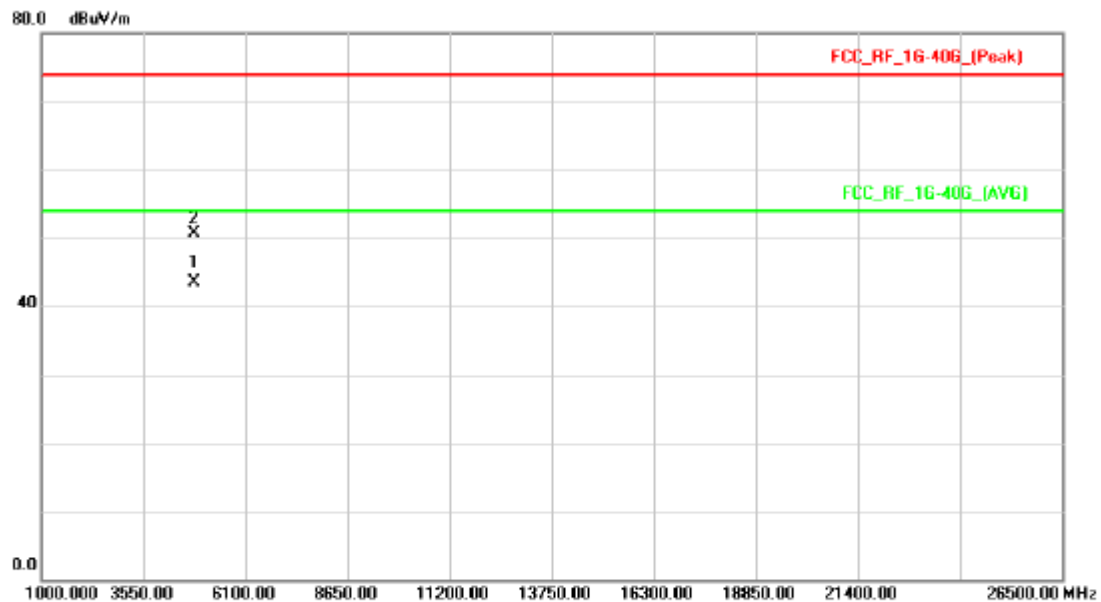
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.125	45.87	6.44	52.31	74.00	-21.69	peak	
2	*	4824.125	37.36	6.44	43.80	54.00	-10.20	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

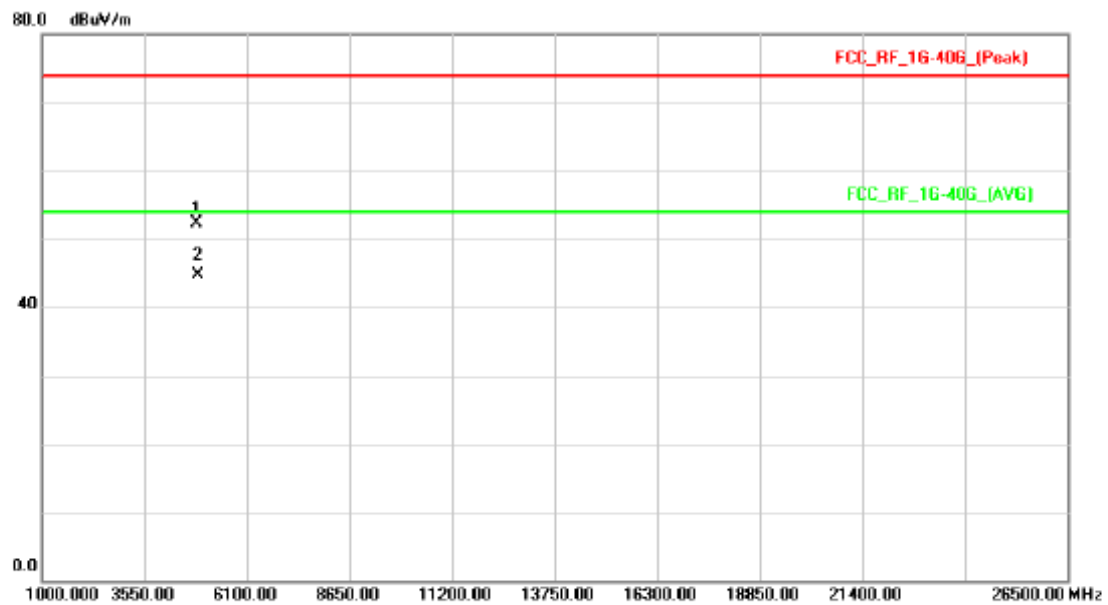
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4823.897	37.16	6.44	43.60	54.00	-10.40	AVG	
2		4824.897	44.34	6.44	50.78	74.00	-23.22	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

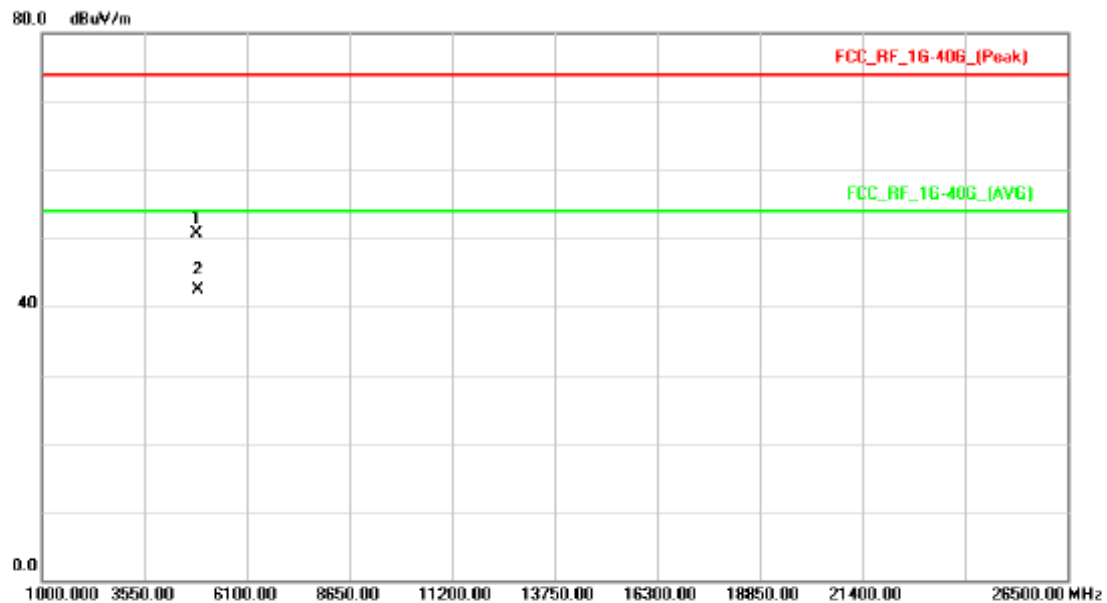
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.365	45.76	6.55	52.31	74.00	-21.69	peak	
2	*	4874.365	38.25	6.55	44.80	54.00	-9.20	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

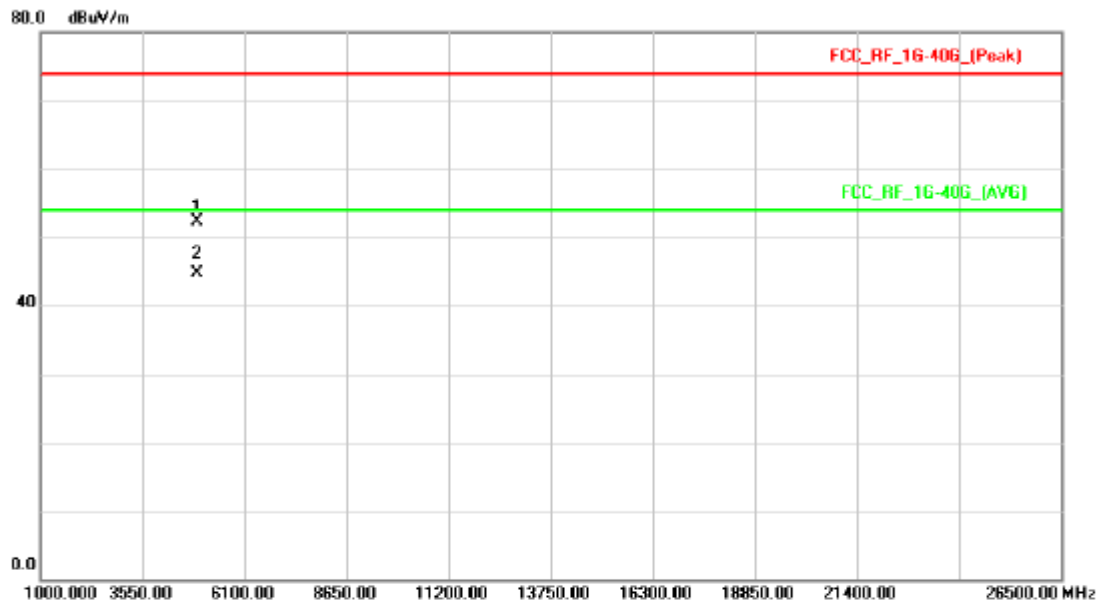
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.566	44.23	6.55	50.78	74.00	-23.22	peak	
2	*	4874.566	36.05	6.55	42.60	54.00	-11.40	AVG	

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

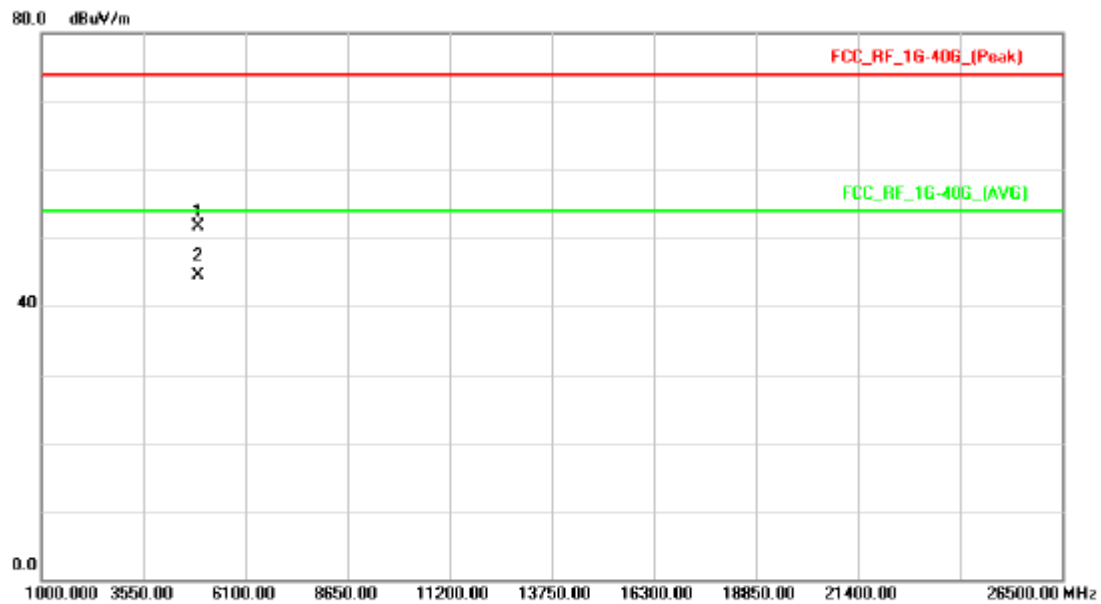
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.886	45.65	6.66	52.31	74.00	-21.69	peak	
2	*	4923.886	38.14	6.66	44.80	54.00	-9.20	AVG	

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

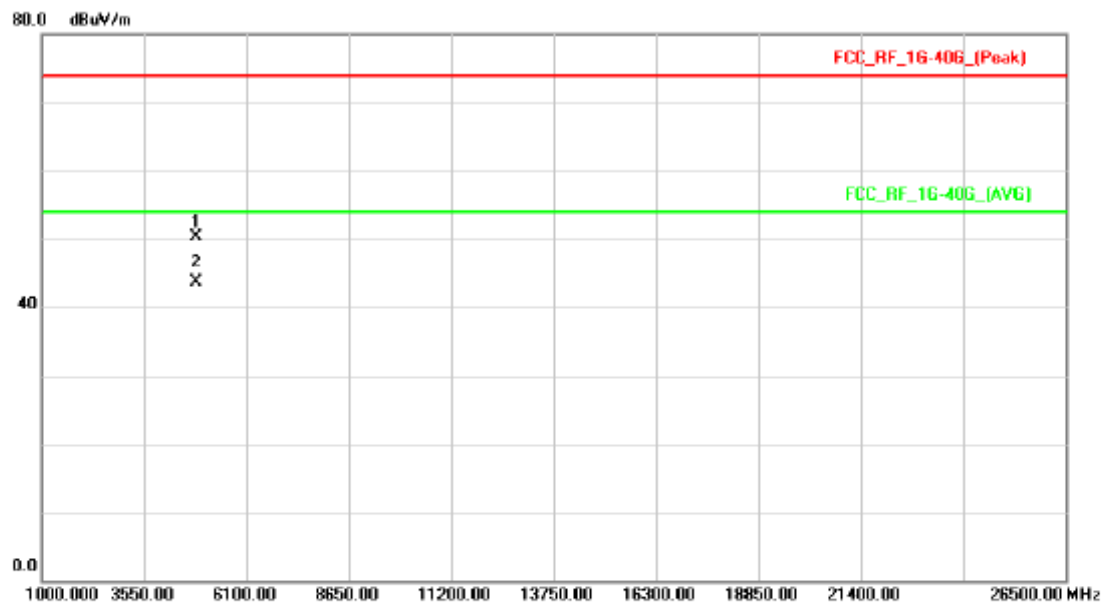
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.489	45.12	6.66	51.78	74.00	-22.22	peak	
2	*	4924.489	37.94	6.66	44.60	54.00	-9.40	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

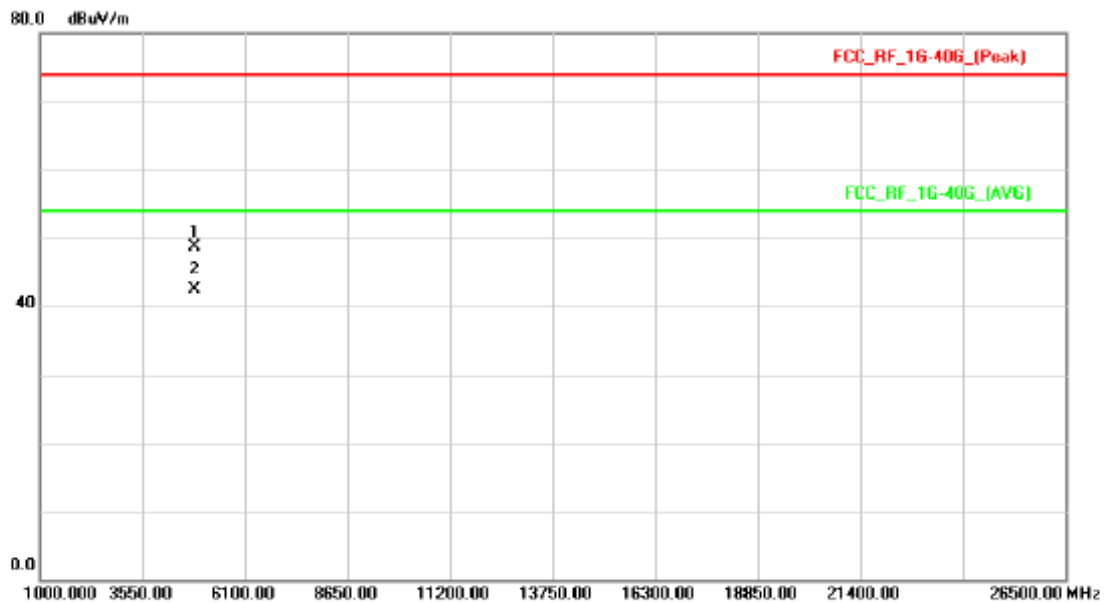
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.319	43.83	6.48	50.31	74.00	-23.69	peak	
2	*	4844.319	37.32	6.48	43.80	54.00	-10.20	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

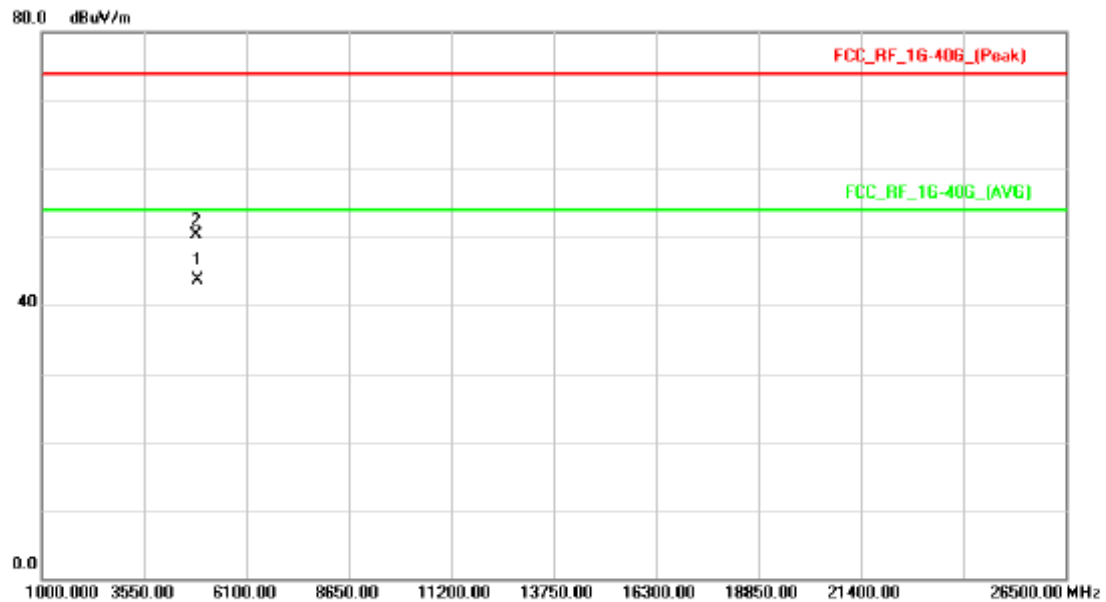
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.251	42.30	6.48	48.78	74.00	-25.22	peak	
2	*	4844.251	36.12	6.48	42.60	54.00	-11.40	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

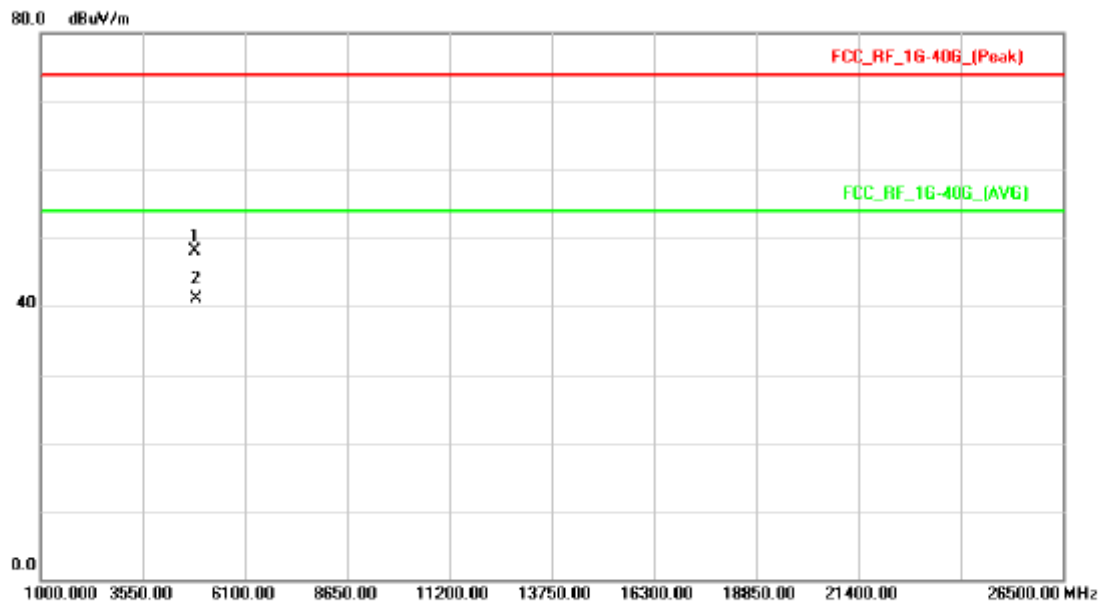
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.235	37.25	6.55	43.80	54.00	-10.20	AVG	
2		4874.235	43.76	6.55	50.31	74.00	-23.69	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

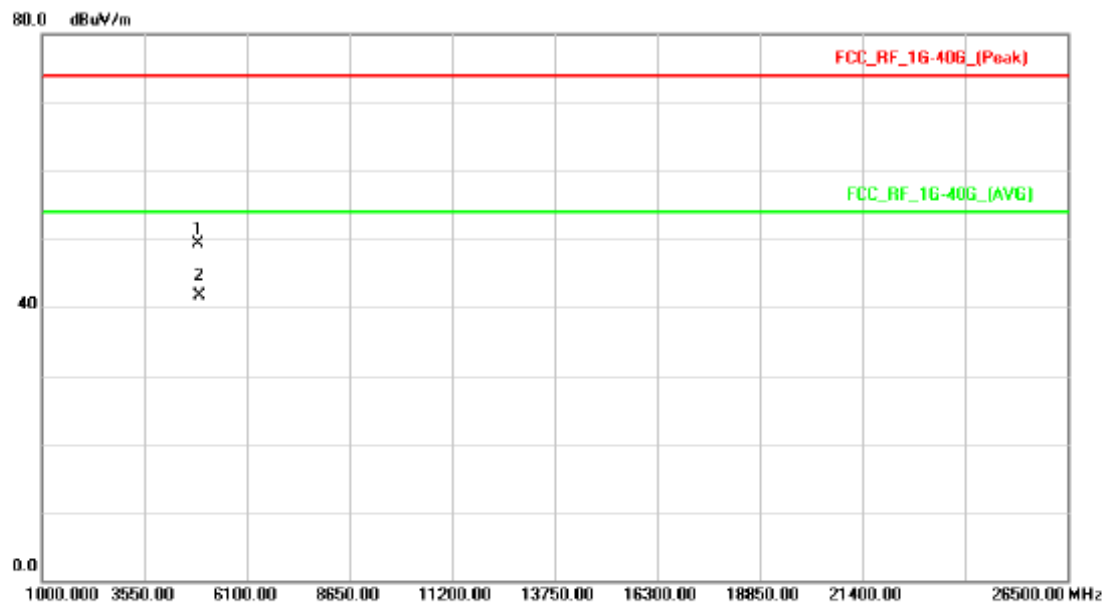
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.395	41.65	6.55	48.20	74.00	-25.80	peak	
2	*	4874.395	34.57	6.55	41.12	54.00	-12.88	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

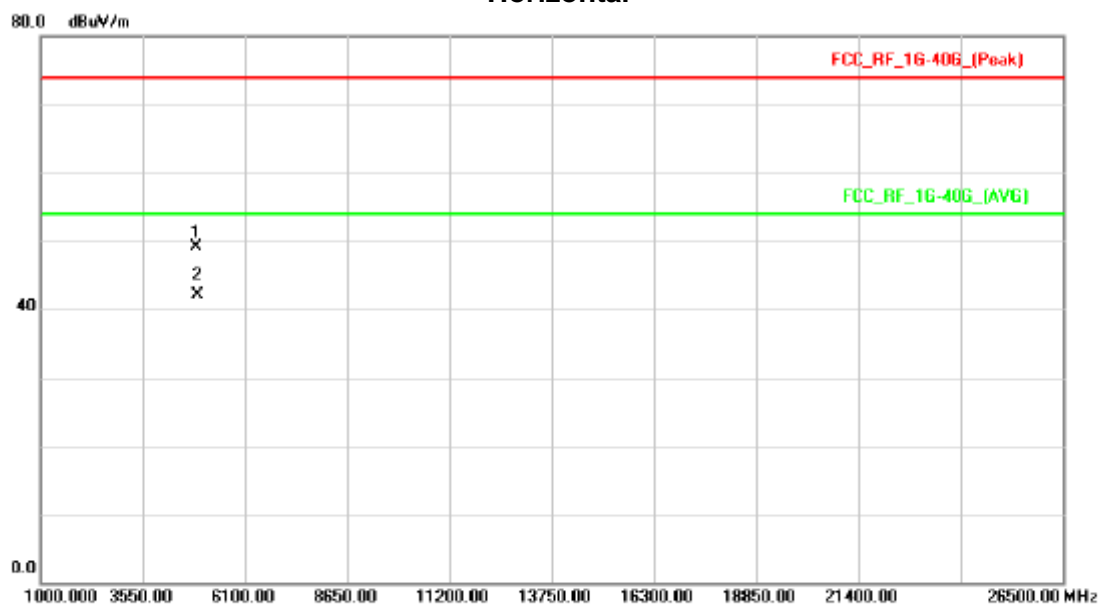
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.268	42.70	6.61	49.31	74.00	-24.69	peak	
2	*	4904.268	35.19	6.61	41.80	54.00	-12.20	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Horizontal

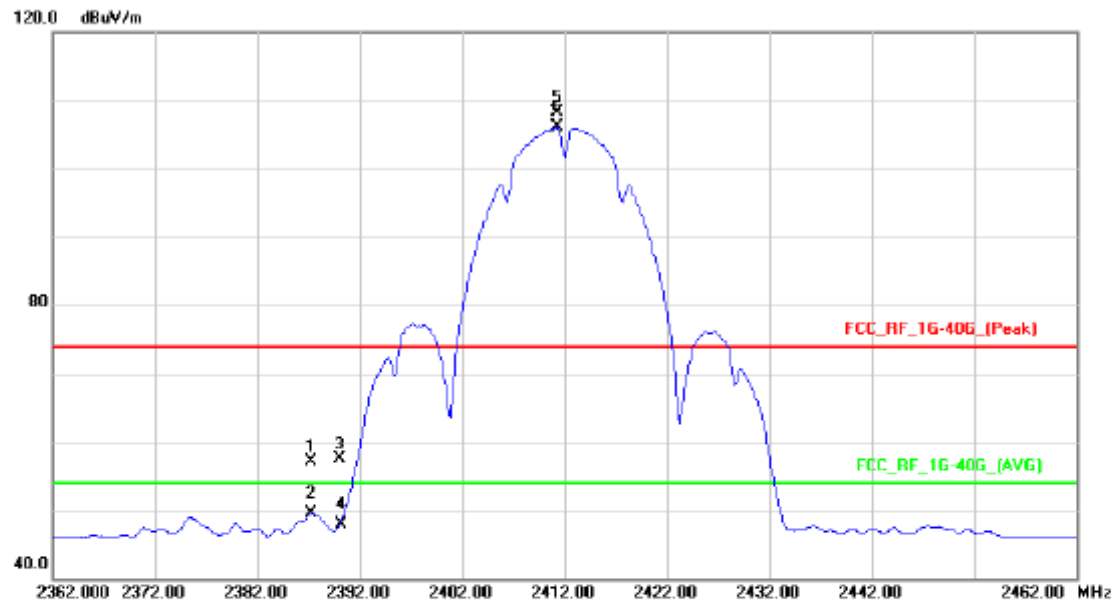


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4903.258	42.59	6.61	49.20	74.00	-24.80	peak	
2	*	4904.258	35.51	6.61	42.12	54.00	-11.88	AVG	

ATTACHMENT E - BAND EDGE AND FUNDAMENTAL EMISSIONS

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

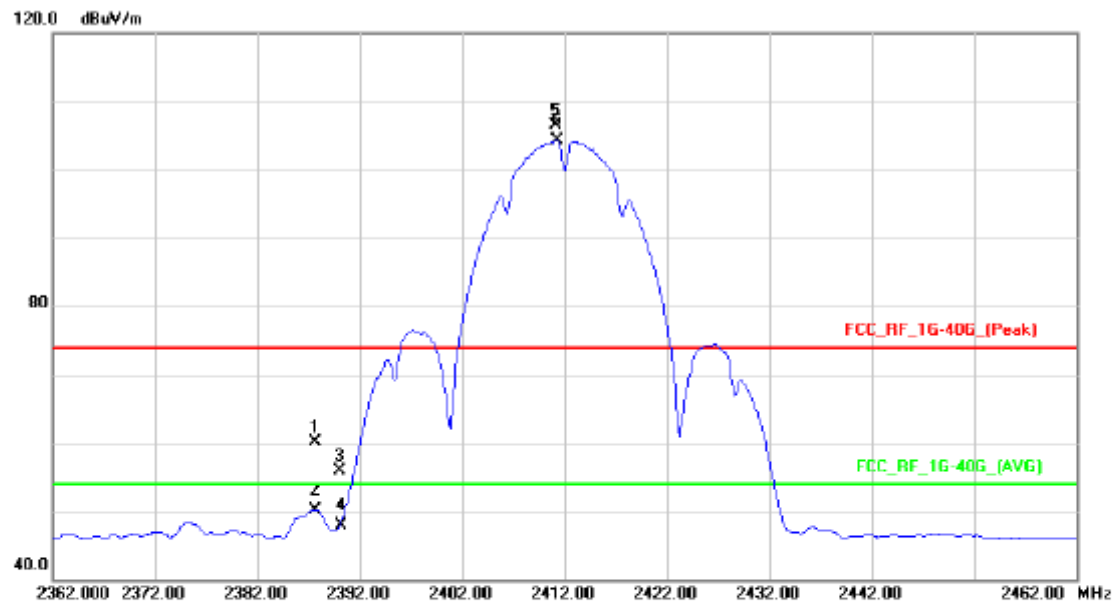
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.300	25.21	31.87	57.08	74.00	-16.92	peak	band edge
2		2387.300	17.58	31.87	49.45	54.00	-4.55	AVG	band edge
3		2390.000	25.53	31.88	57.41	74.00	-16.59	peak	band edge
4		2390.000	15.95	31.88	47.83	54.00	-6.17	AVG	band edge
5	X	2411.200	76.30	31.91	108.21	74.00	34.21	peak	no limit
6	*	2411.200	74.23	31.91	106.14	54.00	52.14	AVG	no limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

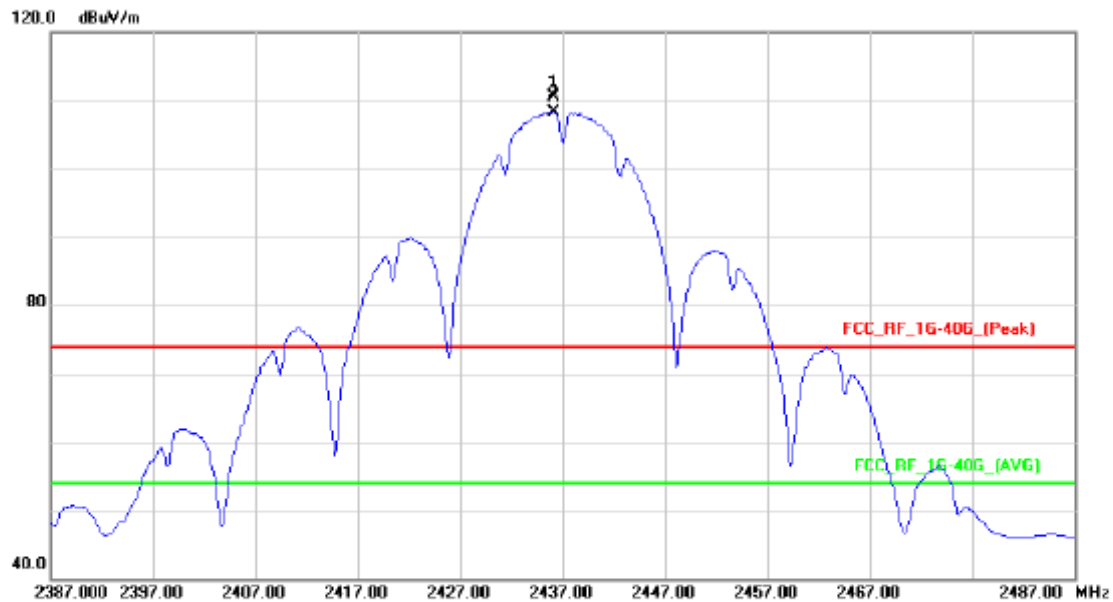
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.600	28.29	31.87	60.16	74.00	-13.84	peak	band edge
2		2387.600	18.27	31.87	50.14	54.00	-3.86	AVG	band edge
3		2390.000	23.94	31.88	55.82	74.00	-18.18	peak	band edge
4		2390.000	15.93	31.88	47.81	54.00	-6.19	AVG	band edge
5	X	2411.100	74.52	31.91	106.43	74.00	32.43	peak	no limit
6	*	2411.200	72.42	31.91	104.33	54.00	50.33	AVG	no limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

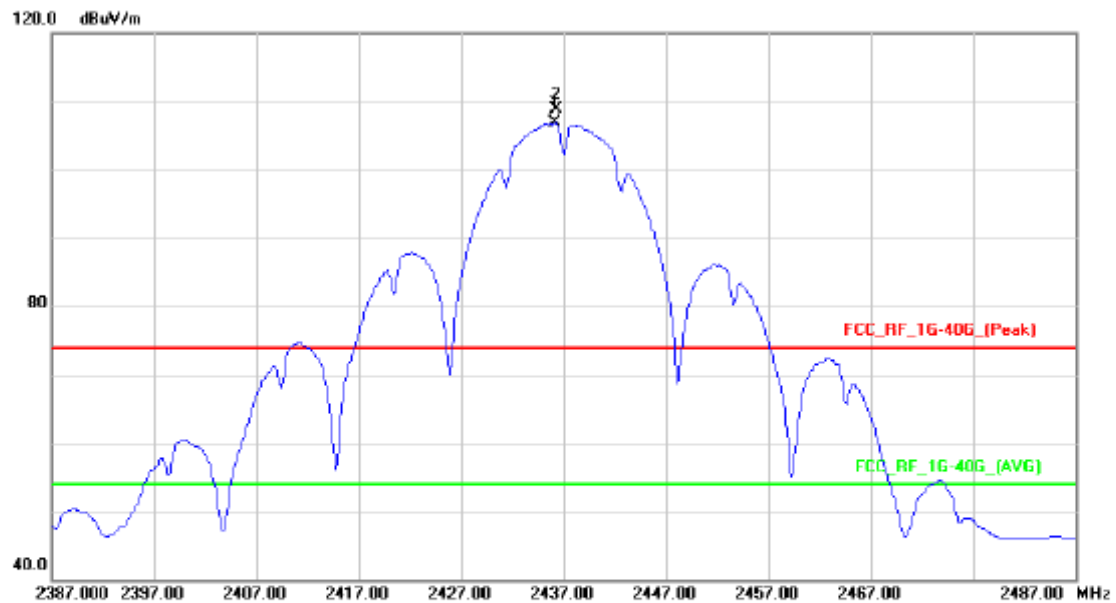
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2436.100	78.61	31.94	110.55	74.00	36.55	peak	no limit
2	*	2436.100	76.46	31.94	108.40	54.00	54.40	AVG	no limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

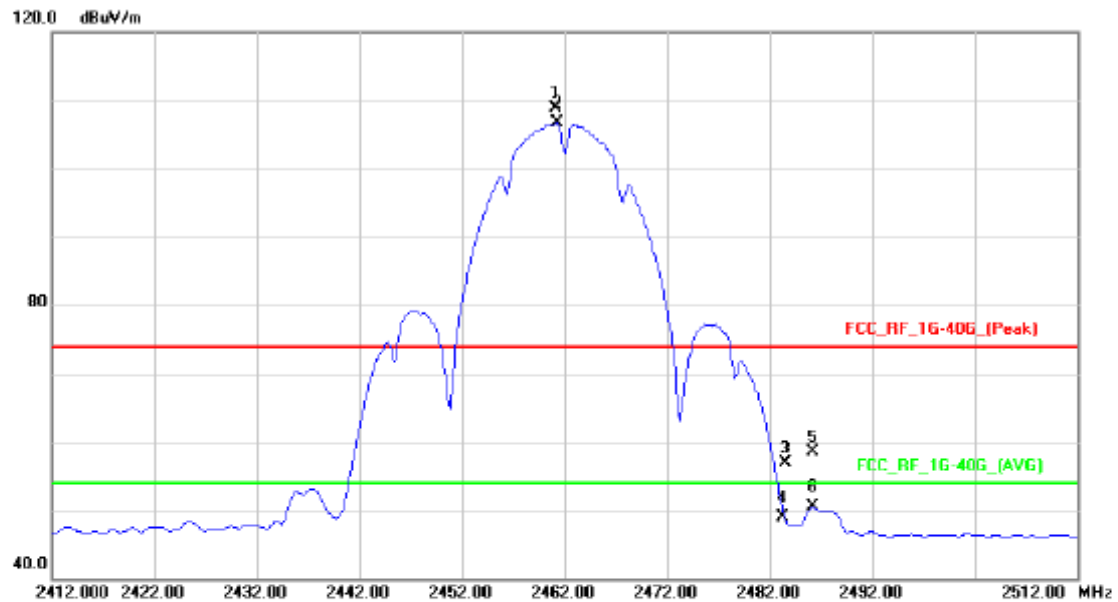
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2436.100	74.91	31.94	106.85	54.00	52.85	AVG	no limit
2	X	2436.200	77.05	31.94	108.99	74.00	34.99	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

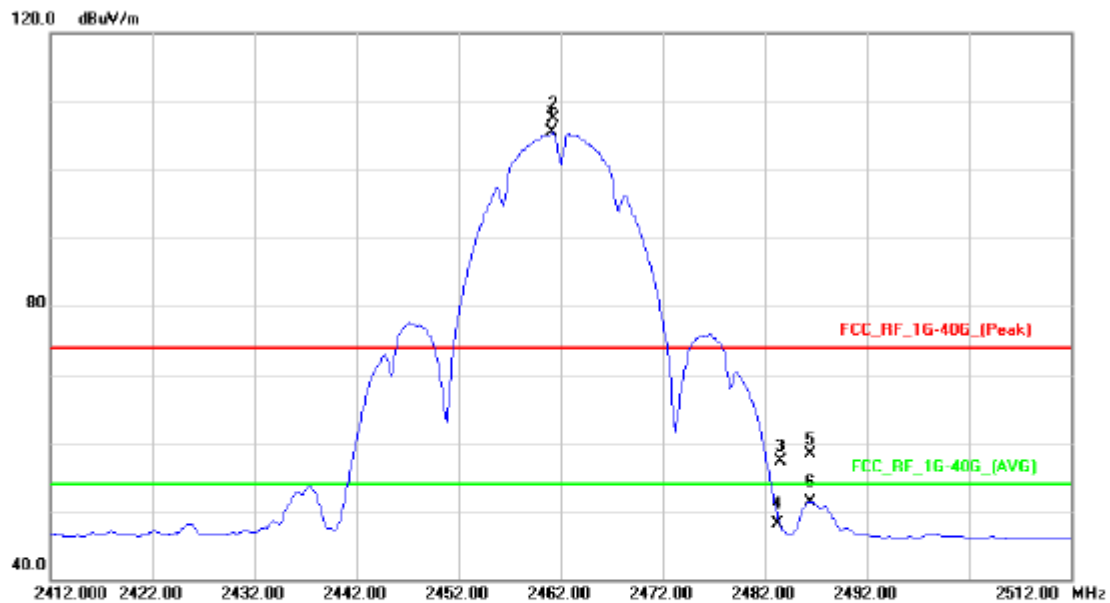
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.100	76.95	31.98	108.93	74.00	34.93	peak	no limit
2	*	2461.200	74.75	31.98	106.73	54.00	52.73	AVG	no limit
3		2483.500	24.80	32.01	56.81	74.00	-17.19	peak	band edge
4		2483.500	16.85	32.01	48.86	54.00	-5.14	AVG	band edge
5		2486.200	26.52	32.01	58.53	74.00	-15.47	peak	band edge
6		2486.200	18.43	32.01	50.44	54.00	-3.56	AVG	band edge

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

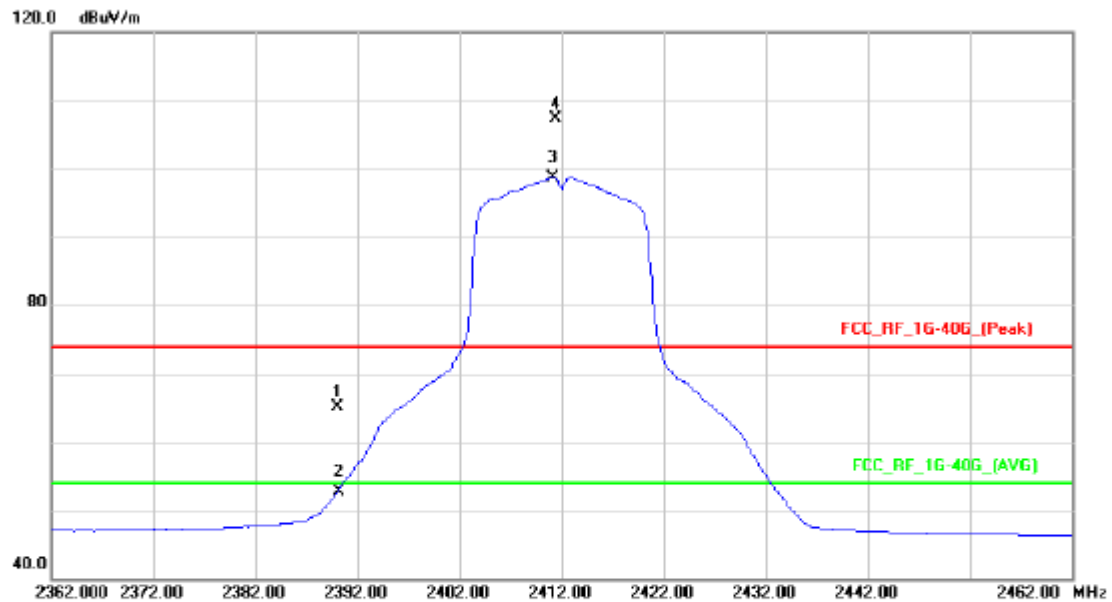
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2461.100	73.44	31.98	105.42	54.00	51.42	AVG	no limit
2	X	2461.200	75.55	31.98	107.53	74.00	33.53	peak	no limit
3		2483.500	25.27	32.01	57.28	74.00	-16.72	peak	band edge
4		2483.500	16.16	32.01	48.17	54.00	-5.83	AVG	band edge
5		2486.500	26.30	32.01	58.31	74.00	-15.69	peak	band edge
6		2486.500	19.39	32.01	51.40	54.00	-2.60	AVG	band edge

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

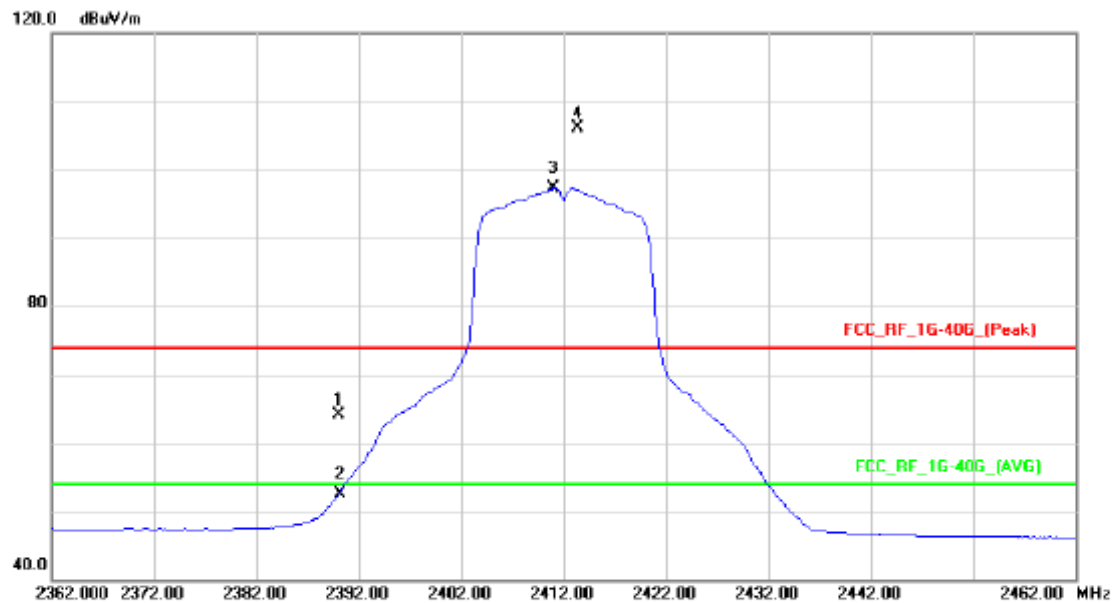
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	33.13	31.88	65.01	74.00	-8.99	peak	band edge
2		2390.000	20.79	31.88	52.67	54.00	-1.33	AVG	band edge
3	*	2411.100	66.80	31.91	98.71	54.00	44.71	AVG	no limit
4	X	2411.400	75.45	31.91	107.36	74.00	33.36	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

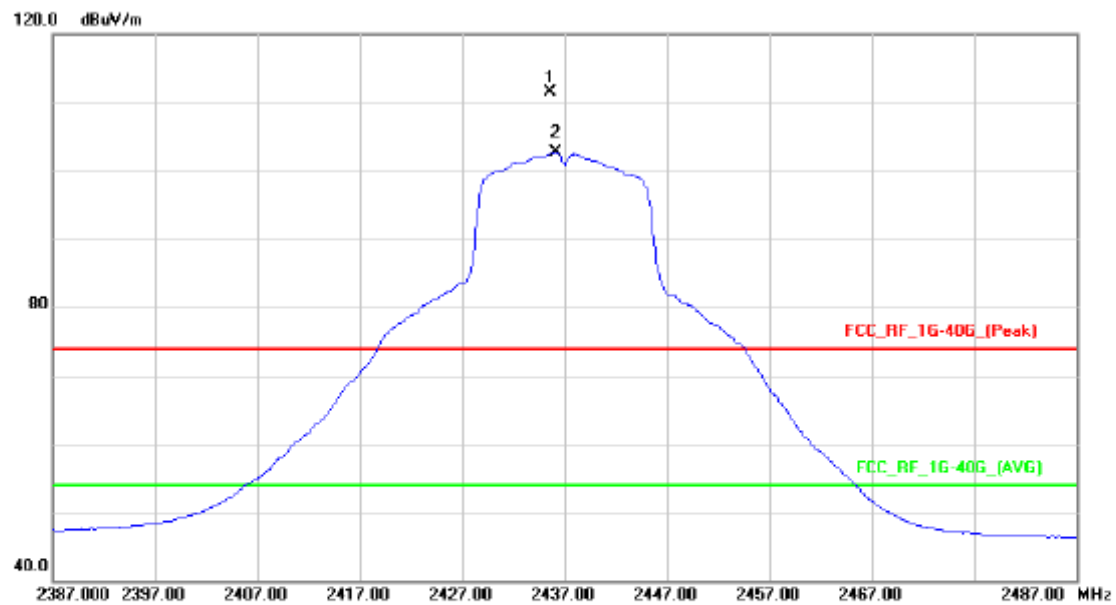
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	32.22	31.88	64.10	74.00	-9.90	peak	band edge
2		2390.000	20.59	31.88	52.47	54.00	-1.53	AVG	band edge
3	*	2411.000	65.43	31.91	97.34	54.00	43.34	AVG	no limit
4	X	2413.400	74.18	31.91	106.09	74.00	32.09	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

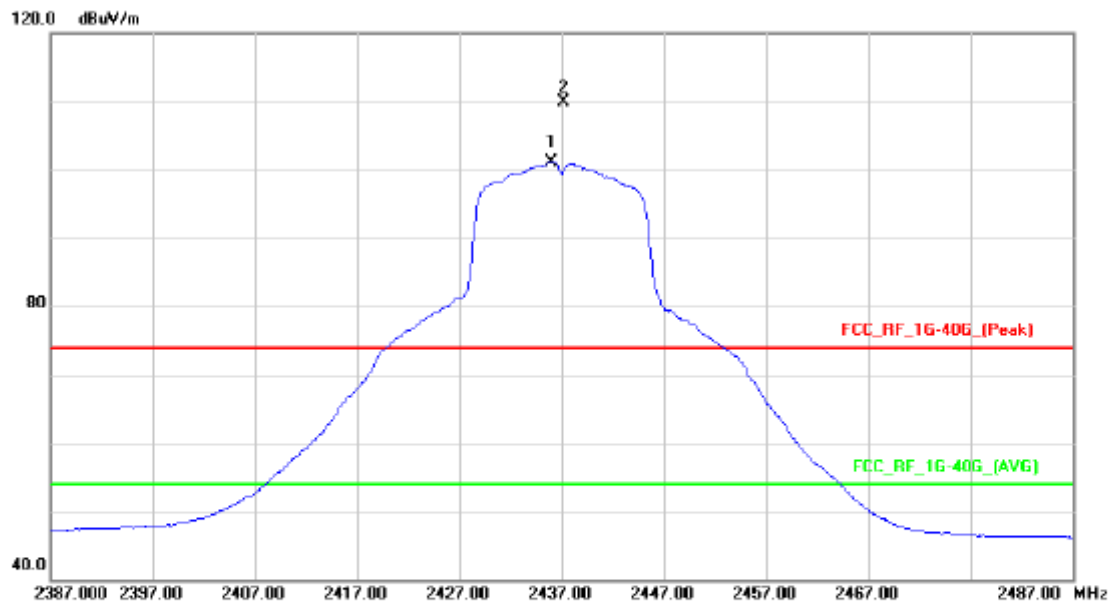
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2435.600	79.48	31.94	111.42	74.00	37.42	peak	no limit
2	*	2436.100	70.70	31.94	102.64	54.00	48.64	AVG	no limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

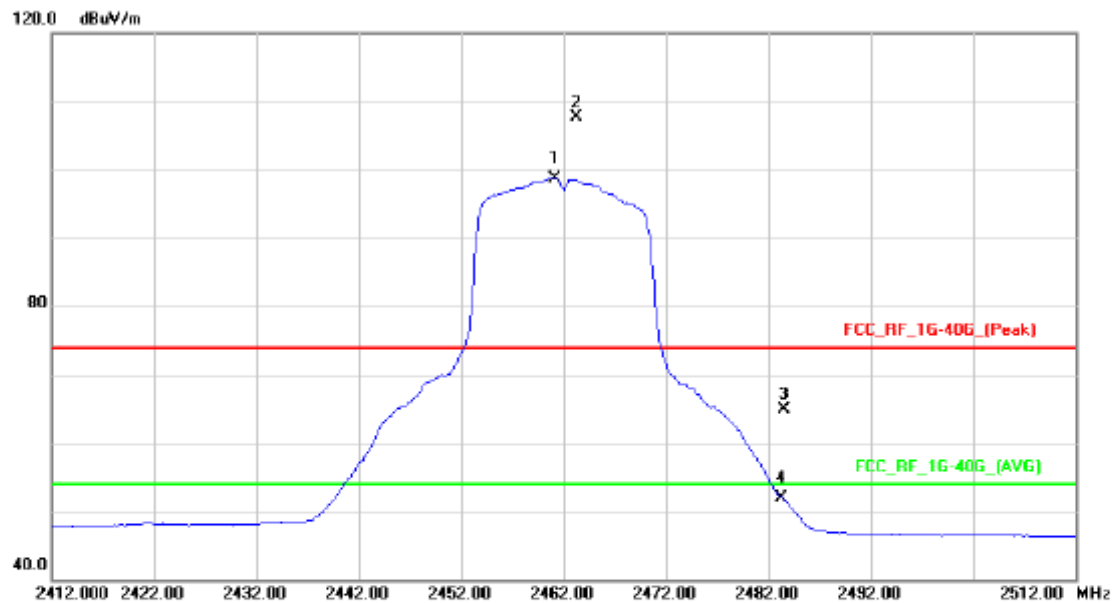
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2436.000	69.23	31.94	101.17	54.00	47.17	AVG	no limit
2	X	2437.200	77.93	31.94	109.87	74.00	35.87	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

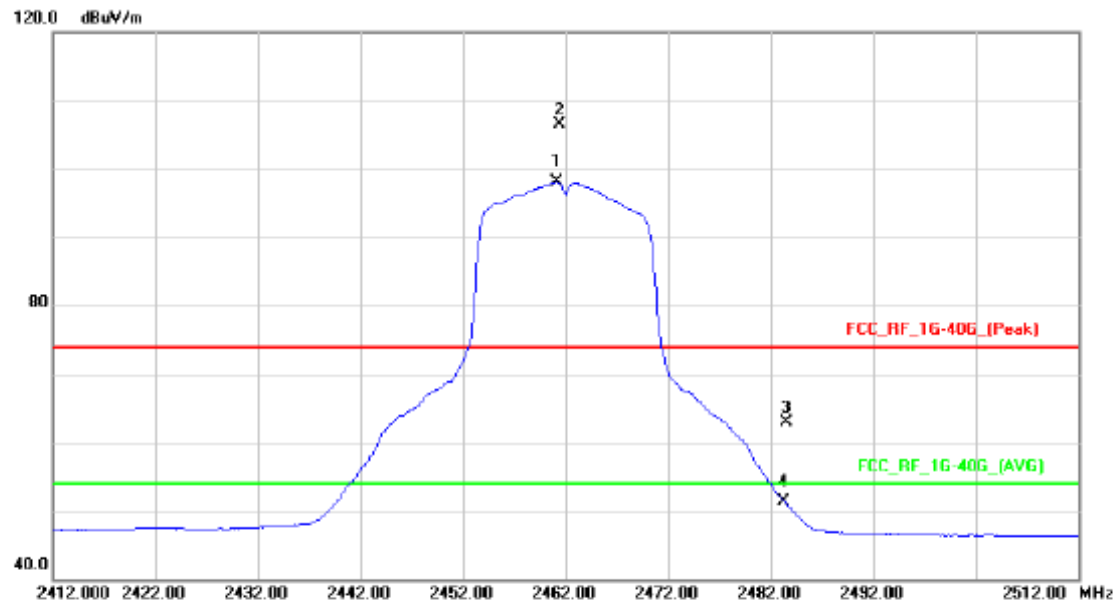
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2461.100	66.81	31.98	98.79	54.00	44.79	AVG	no limit
2	X	2463.300	75.63	31.98	107.61	74.00	33.61	peak	no limit
3		2483.500	32.83	32.01	64.84	74.00	-9.16	peak	band edge
4		2483.500	19.93	32.01	51.94	54.00	-2.06	AVG	band edge

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

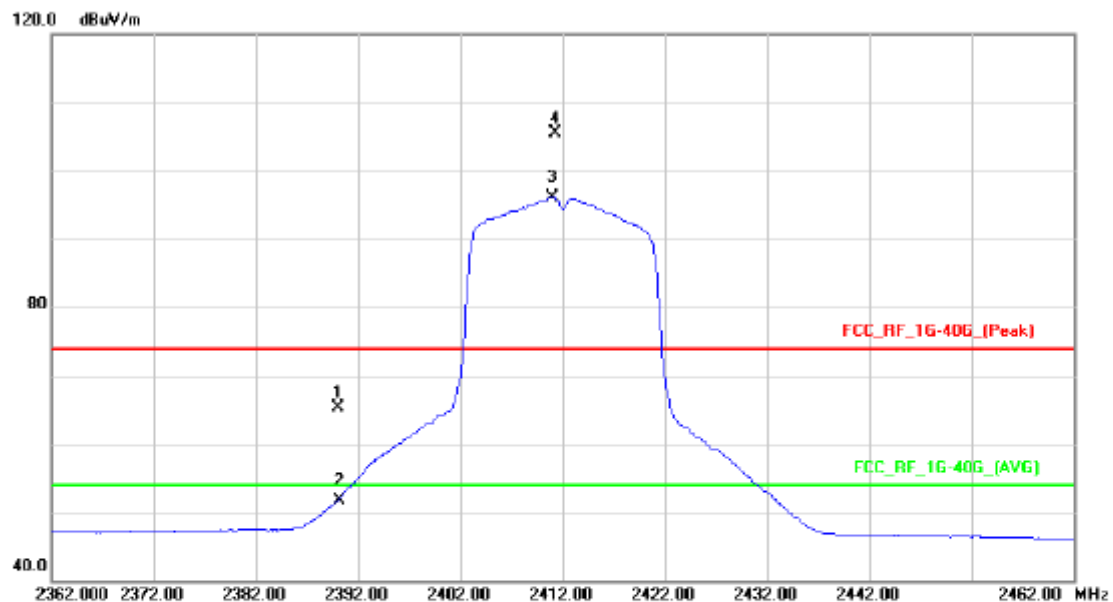
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2461.100	66.03	31.98	98.01	54.00	44.01	AVG	no limit
2	X	2461.400	74.53	31.98	106.51	74.00	32.51	peak	no limit
3		2483.500	30.87	32.01	62.88	74.00	-11.12	peak	band edge
4		2483.500	19.20	32.01	51.21	54.00	-2.79	AVG	band edge

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

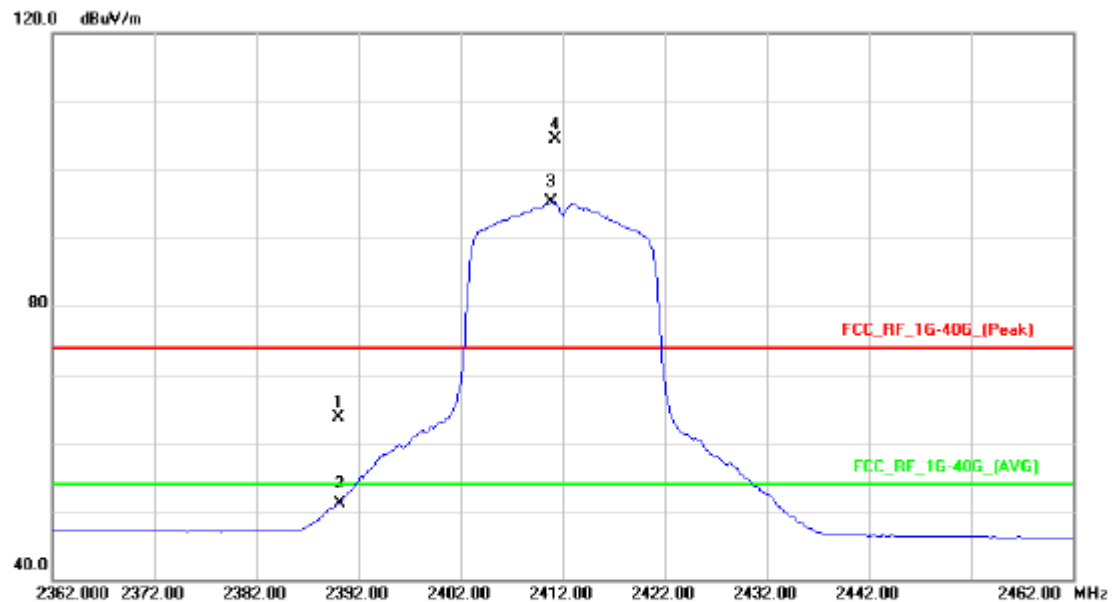
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	33.41	31.88	65.29	74.00	-8.71	peak	band edge
2		2390.000	19.75	31.88	51.63	54.00	-2.37	AVG	band edge
3	*	2411.000	64.20	31.91	96.11	54.00	42.11	AVG	no limit
4	X	2411.200	73.69	31.91	105.60	74.00	31.60	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

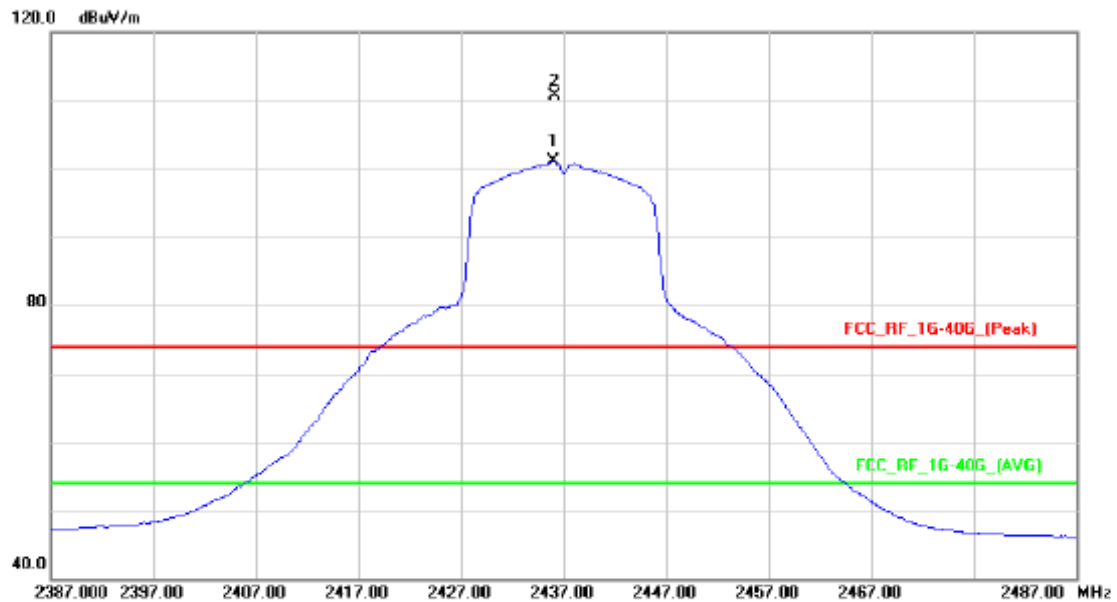
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	31.81	31.88	63.69	74.00	-10.31	peak	band edge
2		2390.000	19.22	31.88	51.10	54.00	-2.90	AVG	band edge
3	*	2410.900	63.33	31.91	95.24	54.00	41.24	AVG	no limit
4	X	2411.200	72.68	31.91	104.59	74.00	30.59	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

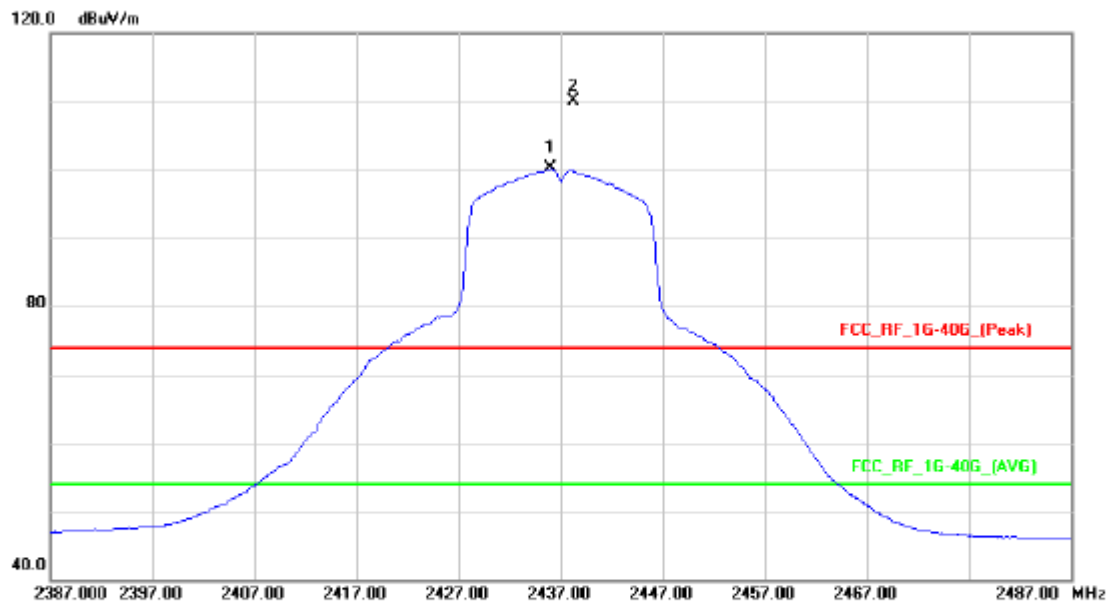
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2436.000	69.13	31.94	101.07	54.00	47.07	AVG	no limit
2	X	2436.100	78.77	31.94	110.71	74.00	36.71	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

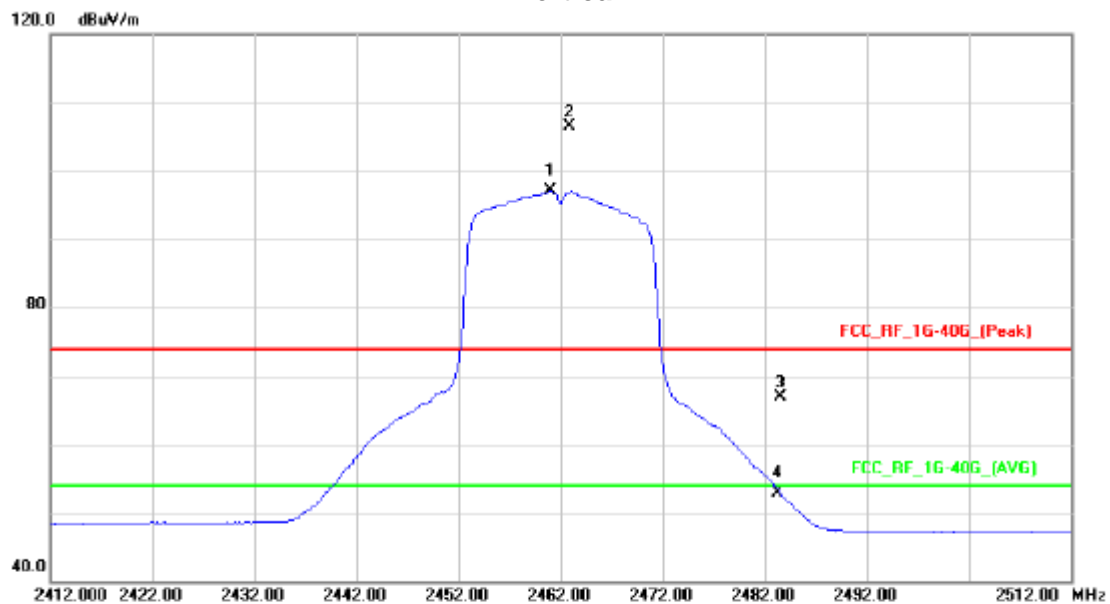
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2436.000	68.29	31.94	100.23	54.00	46.23	AVG	no limit
2	X	2438.200	78.12	31.94	110.06	74.00	36.06	peak	no limit

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

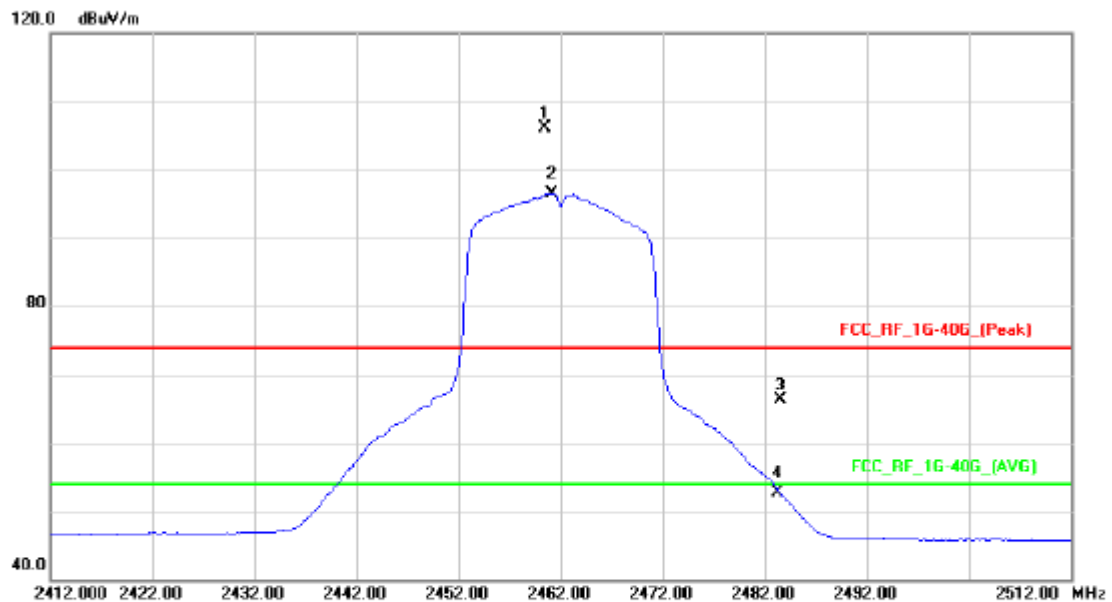
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2461.000	65.11	31.98	97.09	54.00	43.09	AVG	no limit
2	X	2462.900	74.62	31.98	106.60	74.00	32.60	peak	no limit
3		2483.500	34.92	32.01	66.93	74.00	-7.07	peak	band edge
4		2483.500	20.98	32.01	52.99	54.00	-1.01	AVG	band edge

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

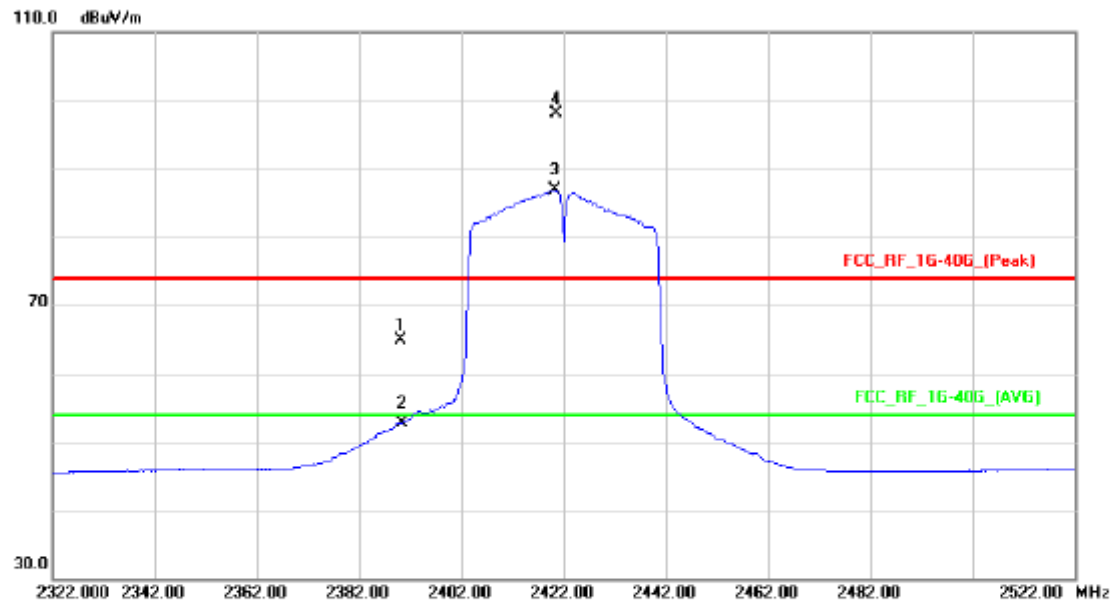
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2460.500	74.07	31.98	106.05	74.00	32.05	peak	no limit
2	*	2461.100	64.60	31.98	96.58	54.00	42.58	AVG	no limit
3		2483.500	34.25	32.01	66.26	74.00	-7.74	peak	band edge
4		2483.500	20.61	32.01	52.62	54.00	-1.38	AVG	band edge

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

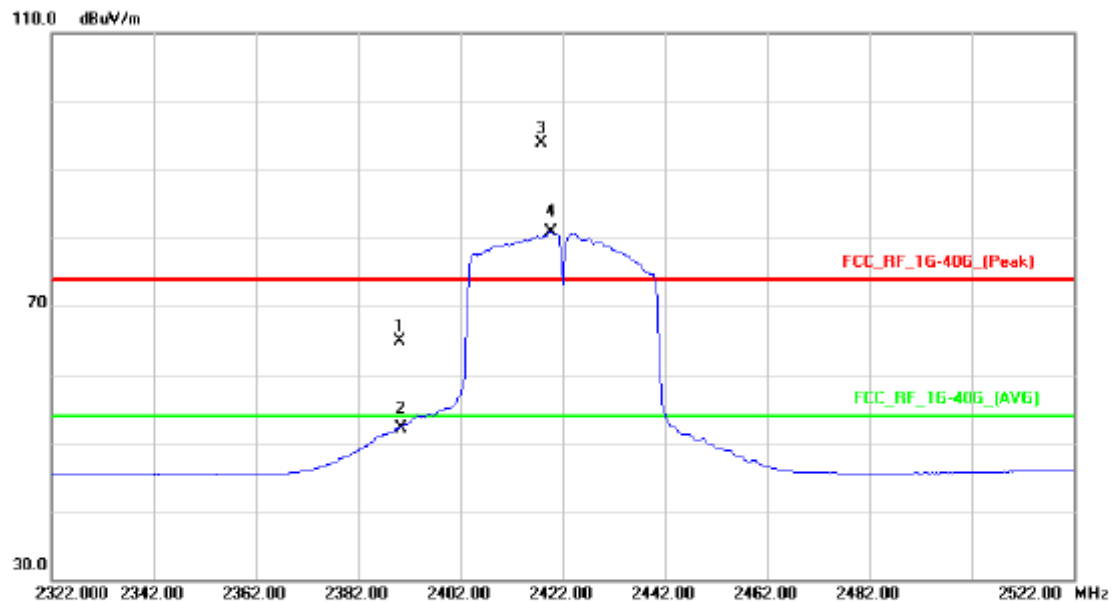
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	33.03	31.88	64.91	74.00	-9.09	peak	band edge
2		2390.000	20.73	31.88	52.61	54.00	-1.39	AVG	band edge
3	*	2420.200	54.99	31.92	86.91	54.00	32.91	AVG	no limit
4	X	2420.600	66.12	31.92	98.04	74.00	24.04	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

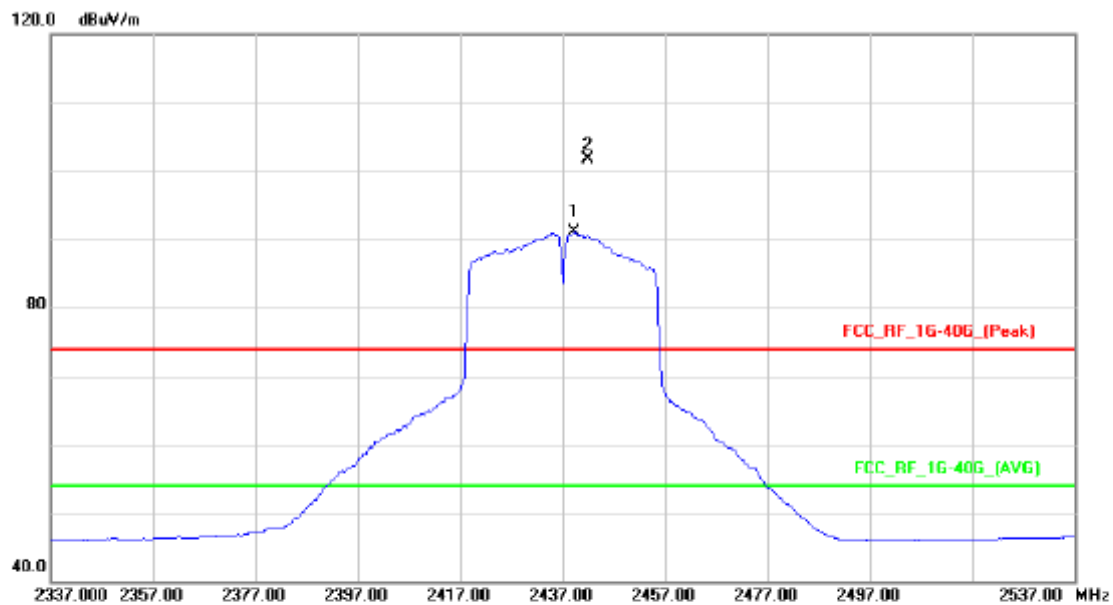
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.000	33.01	31.88	64.89	74.00	-9.11	peak	band edge
2	2390.000	20.21	31.88	52.09	54.00	-1.91	AVG	band edge
3 X	2417.800	62.07	31.91	93.98	74.00	19.98	peak	no limit
4 *	2419.600	48.97	31.92	80.89	54.00	26.89	AVG	no limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

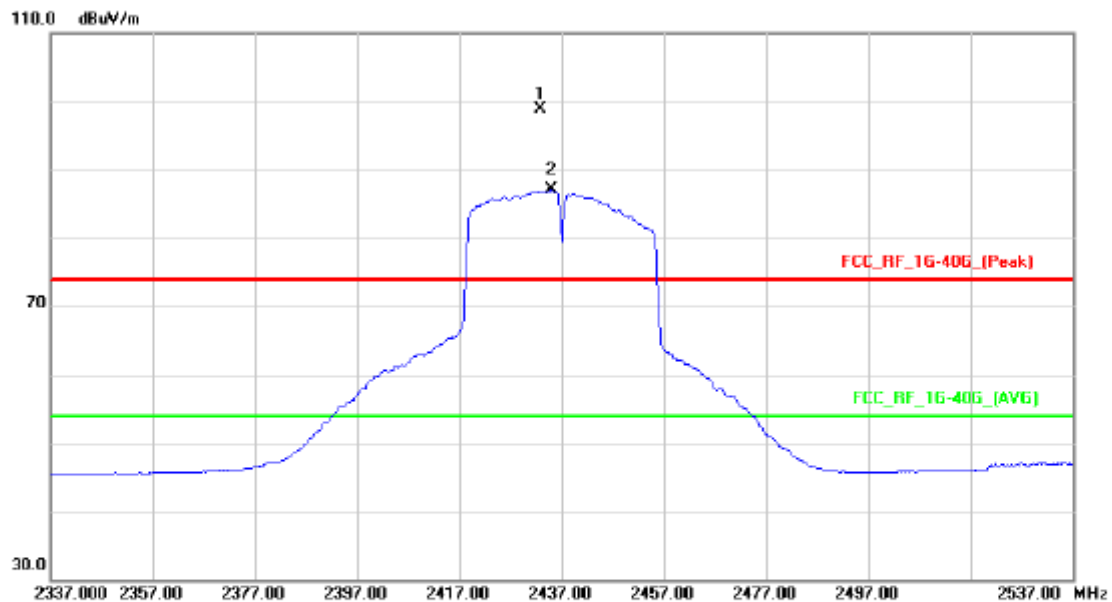
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2439.200	59.10	31.94	91.04	54.00	37.04	AVG	no limit
2	X	2441.800	69.81	31.95	101.76	74.00	27.76	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

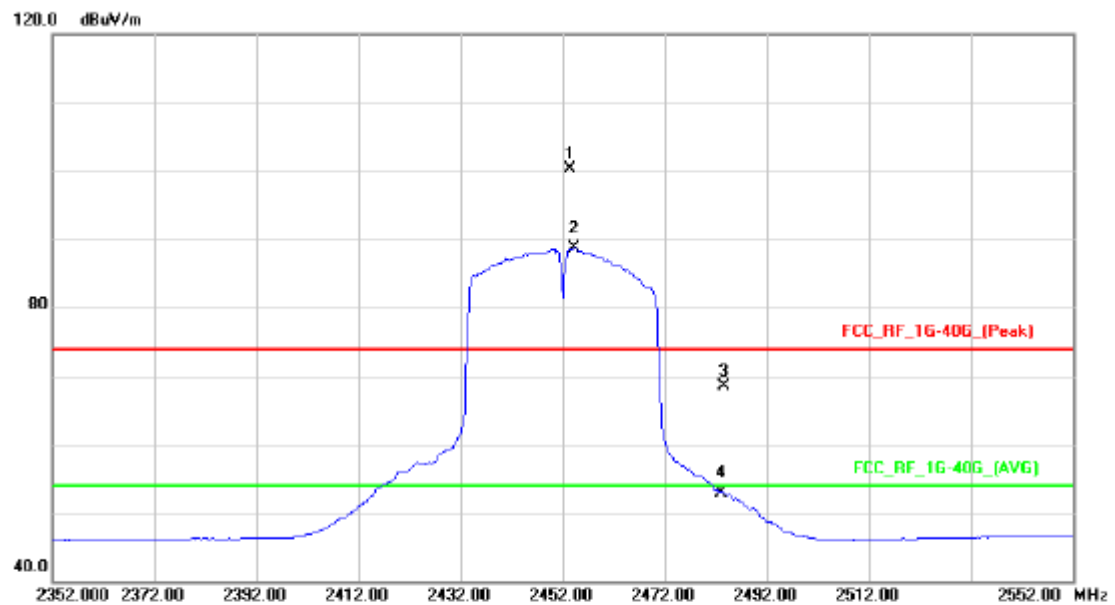
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2432.800	66.90	31.94	98.84	74.00	24.84	peak	no limit
2	*	2435.000	55.09	31.94	87.03	54.00	33.03	AVG	no limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

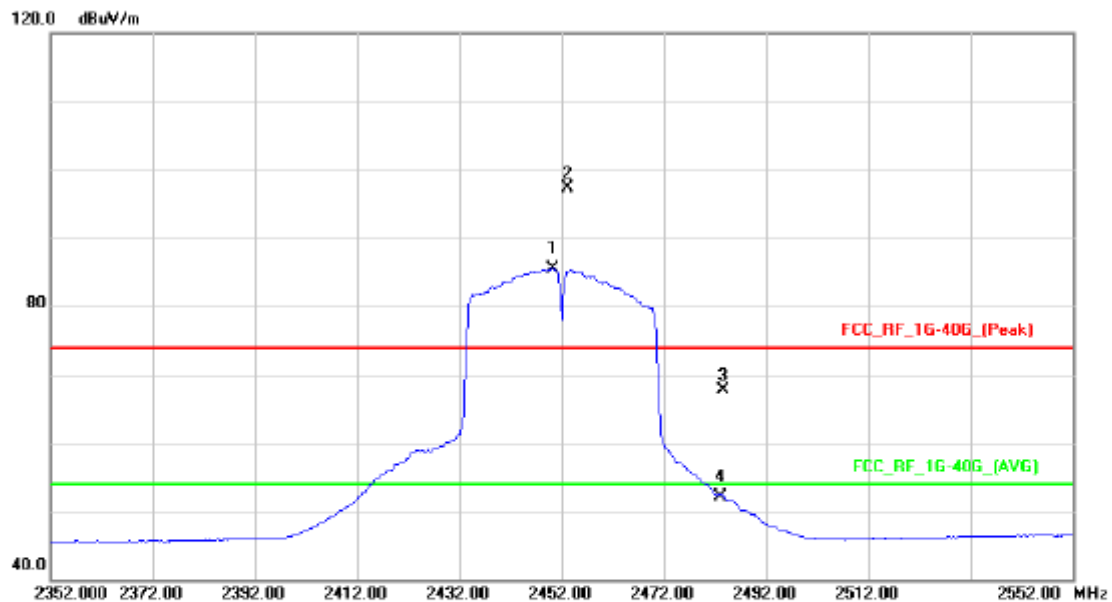
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.400	68.37	31.96	100.33	74.00	26.33	peak	no limit
2	*	2454.200	56.81	31.96	88.77	54.00	34.77	AVG	no limit
3		2483.500	36.57	32.01	68.58	74.00	-5.42	peak	band edge
4		2483.500	20.87	32.01	52.88	54.00	-1.12	AVG	band edge

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Horizontal



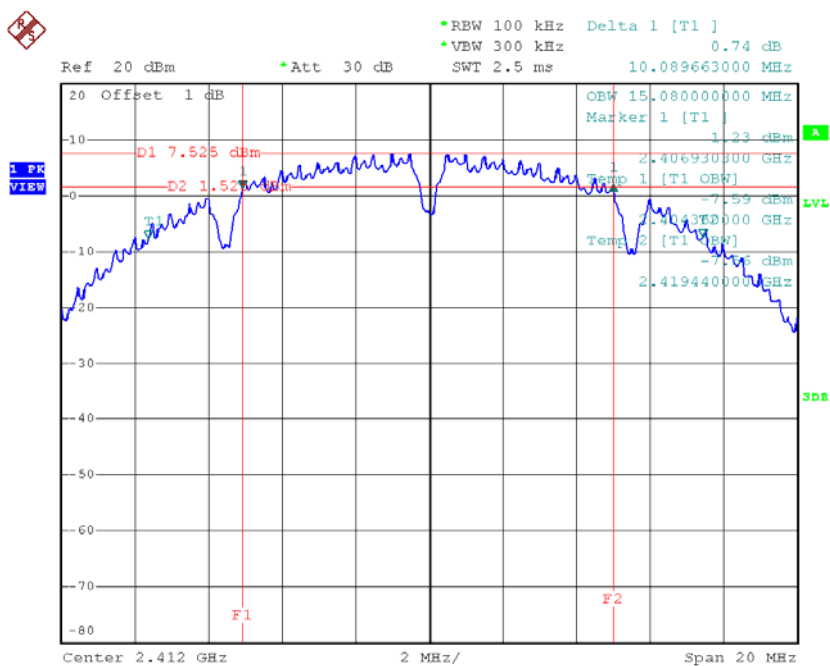
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2450.200	53.54	31.96	85.50	54.00	31.50	AVG	no limit
2	X	2453.200	65.43	31.96	97.39	74.00	23.39	peak	no limit
3		2483.500	35.60	32.01	67.61	74.00	-6.39	peak	band edge
4		2483.500	20.12	32.01	52.13	54.00	-1.87	AVG	band edge

ATTACHMENT F - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

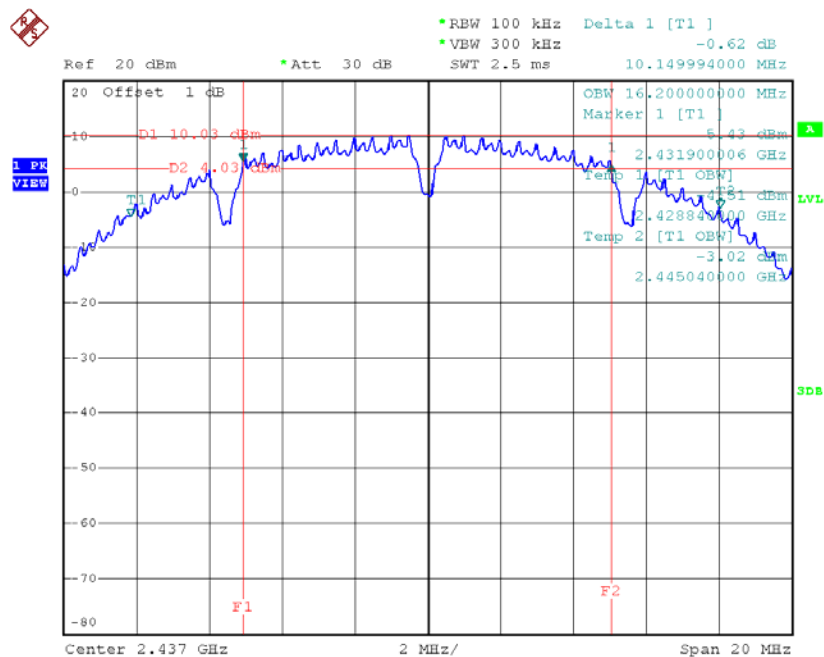
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.09	15.08	500	Complies
2437	10.15	16.20	500	Complies
2462	10.06	15.04	500	Complies

TX CH01



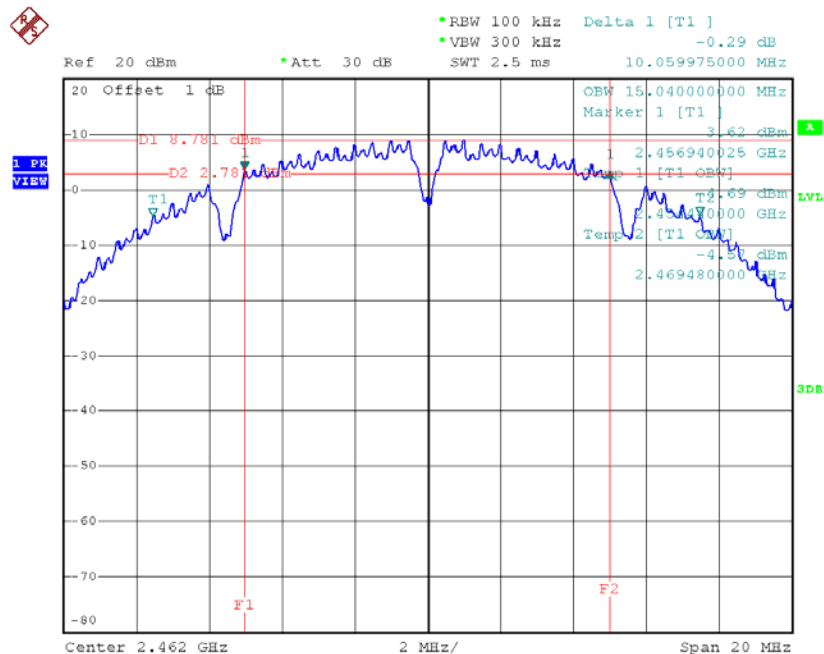
Date: 6.DEC.2014 14:57:45

TX CH06



Date: 6.DEC.2014 14:59:09

TX CH11

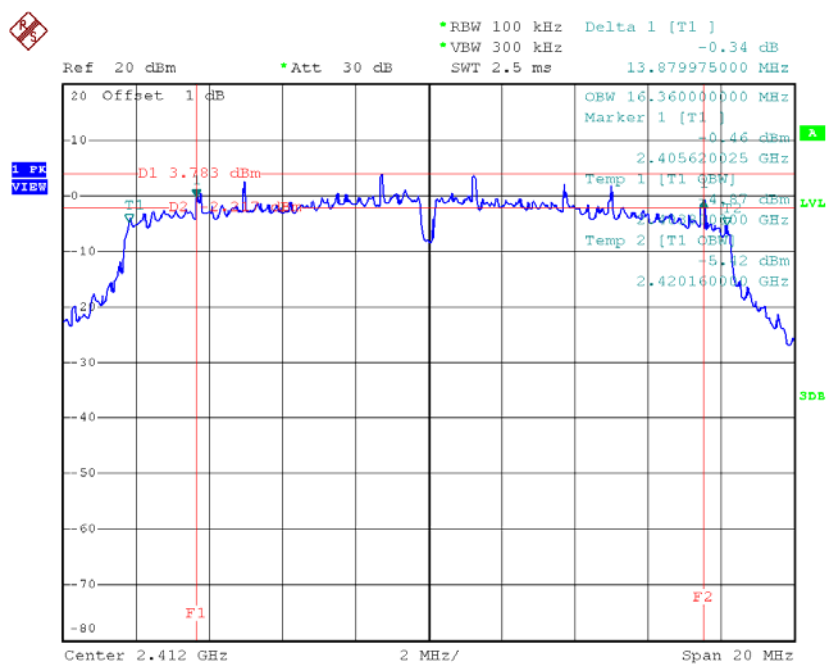


Date: 6.DEC.2014 15:01:17

Test Mode: TX G Mode_CH01/06/11

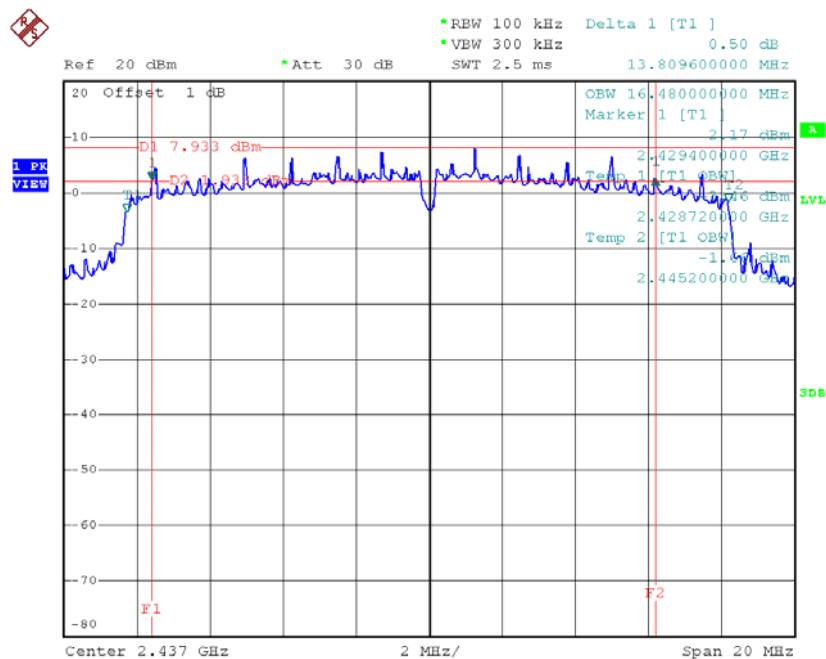
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	13.88	16.36	500	Complies
2437	13.81	16.48	500	Complies
2462	15.08	16.36	500	Complies

TX CH01



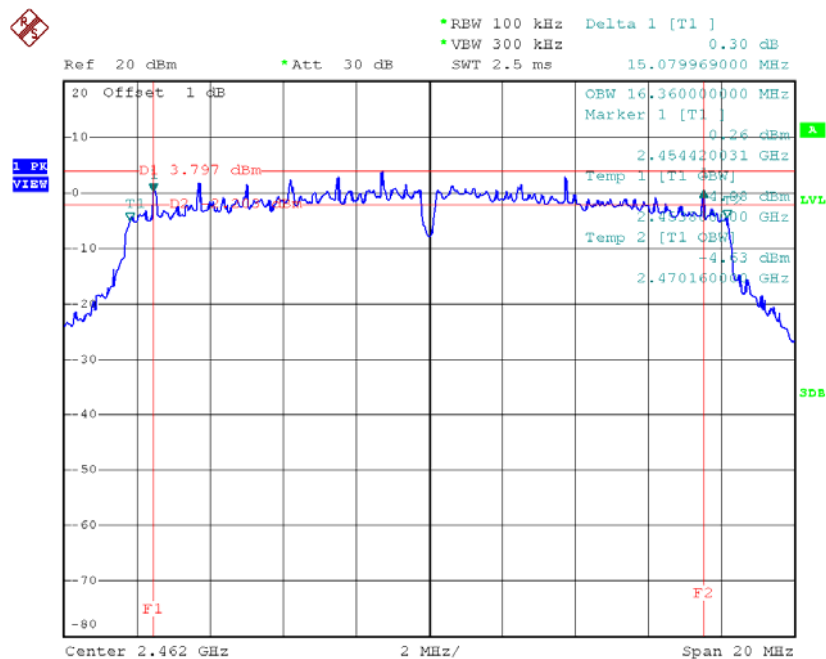
Date: 6.DEC.2014 15:04:29

TX CH06



Date: 6.DEC.2014 15:05:45

TX CH11

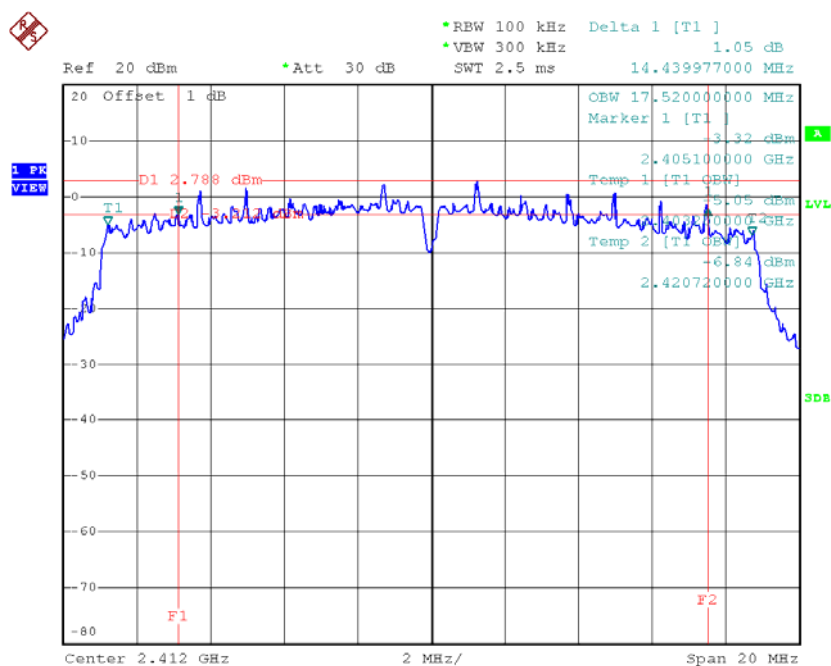


Date: 6.DEC.2014 15:06:54

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

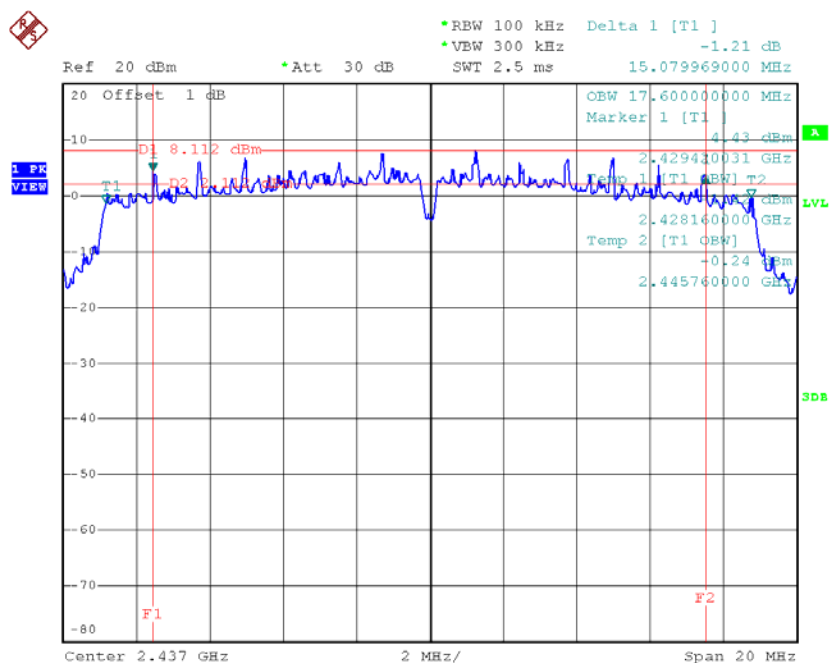
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	14.44	17.52	500	Complies
2437	15.07	17.60	500	Complies
2462	15.16	17.56	500	Complies

TX CH01



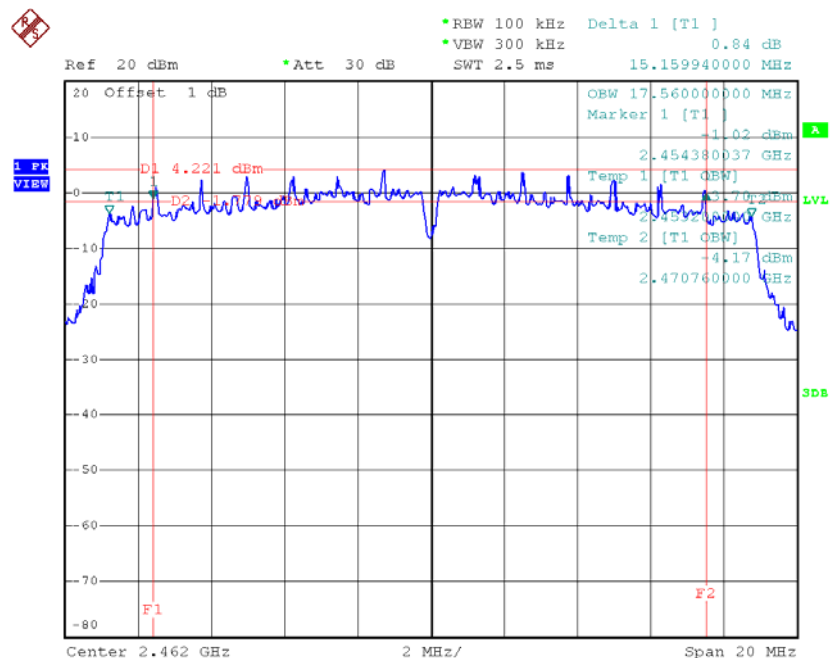
Date: 6.DEC.2014 15:08:40

TX CH06



Date: 6.DEC.2014 15:09:48

TX CH11

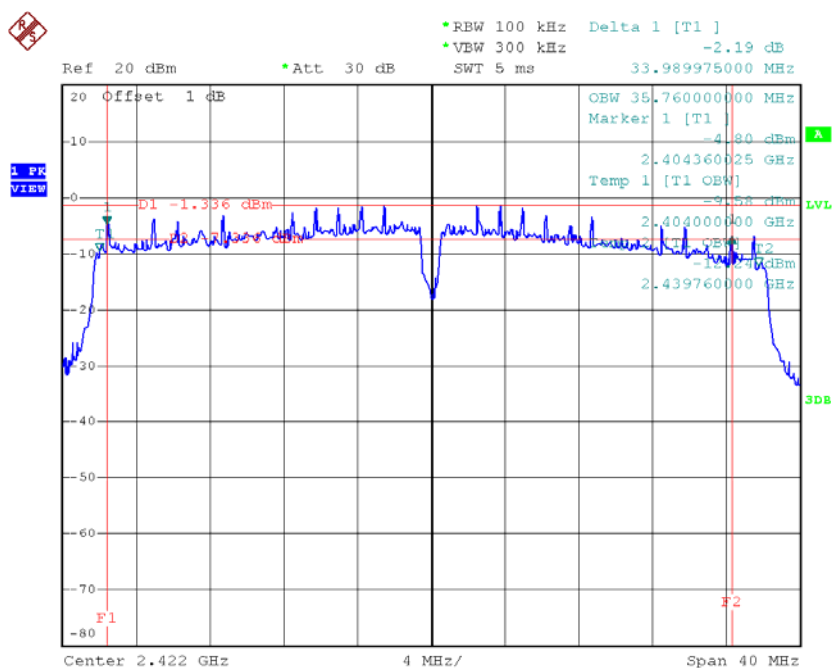


Date: 6.DEC.2014 15:11:06

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

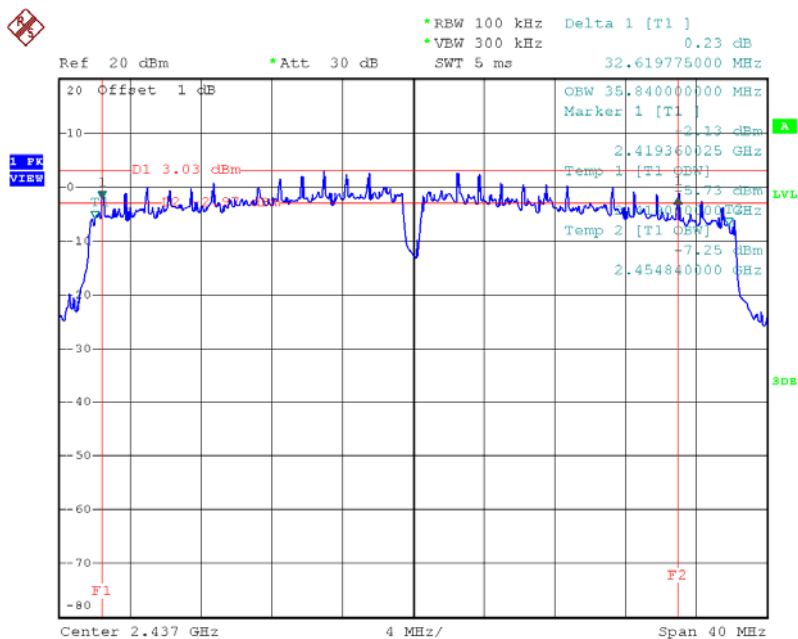
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.99	35.76	500	Complies
2437	32.62	35.84	500	Complies
2452	33.84	35.76	500	Complies

TX CH03



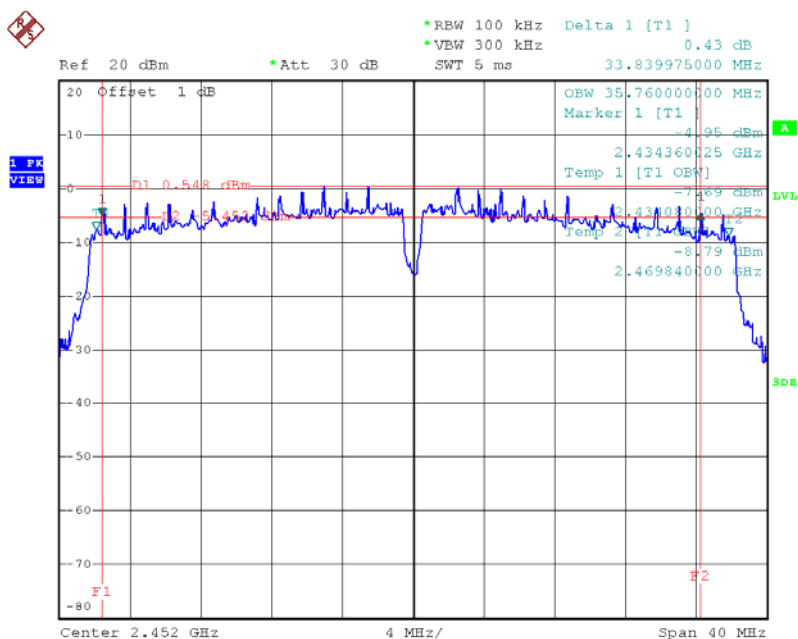
Date: 6.DEC.2014 15:33:03

TX CH06



Date: 6.DEC.2014 15:34:20

TX CH09



Date: 6.DEC.2014 15:35:32

ATTACHMENT G - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.86	0.12	30.00	1.00	Complies
2437	22.45	0.18	30.00	1.00	Complies
2462	22.34	0.17	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	21.49	0.14	30.00	1.00	Complies
2437	25.31	0.34	30.00	1.00	Complies
2462	22.11	0.16	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.27	0.11	30.00	1.00	Complies
2437	25.51	0.36	30.00	1.00	Complies
2462	21.84	0.15	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.04	0.10	30.00	1.00	Complies
2437	23.28	0.21	30.00	1.00	Complies
2462	21.12	0.13	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.17	0.21	30.00	1.00	Complies
2437	27.55	0.57	30.00	1.00	Complies
2462	24.51	0.28	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.12	0.08	30.00	1.00	Complies
2437	23.09	0.20	30.00	1.00	Complies
2452	20.75	0.12	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.95	0.08	30.00	1.00	Complies
2437	22.78	0.19	30.00	1.00	Complies
2452	19.65	0.09	30.00	1.00	Complies

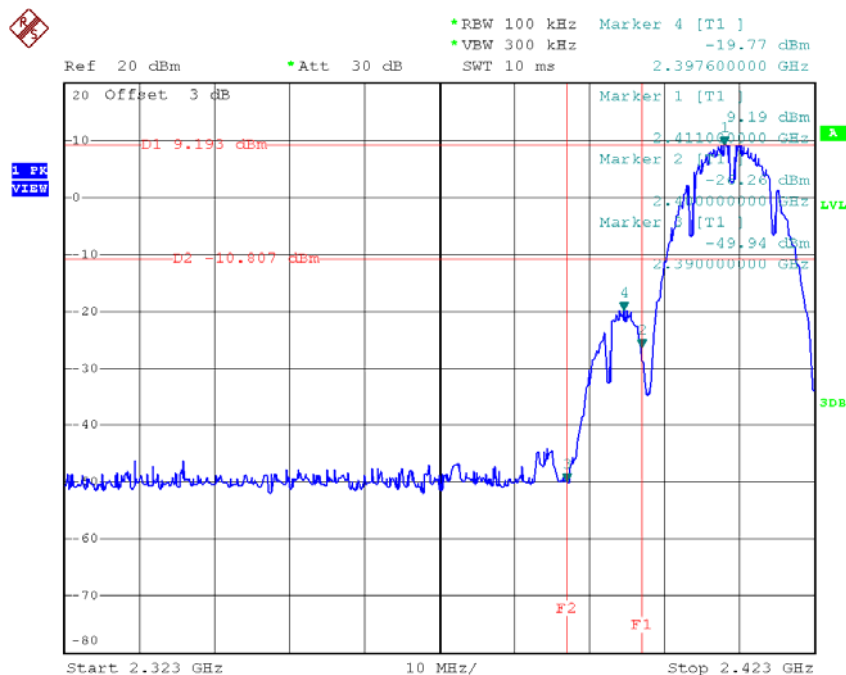
Test Mode :TX N40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.05	0.16	30.00	1.00	Complies
2437	25.95	0.39	30.00	1.00	Complies
2452	23.25	0.21	30.00	1.00	Complies

ATTACHMENT H - ANTENNA CONDUCTED SPURIOUS EMISSION

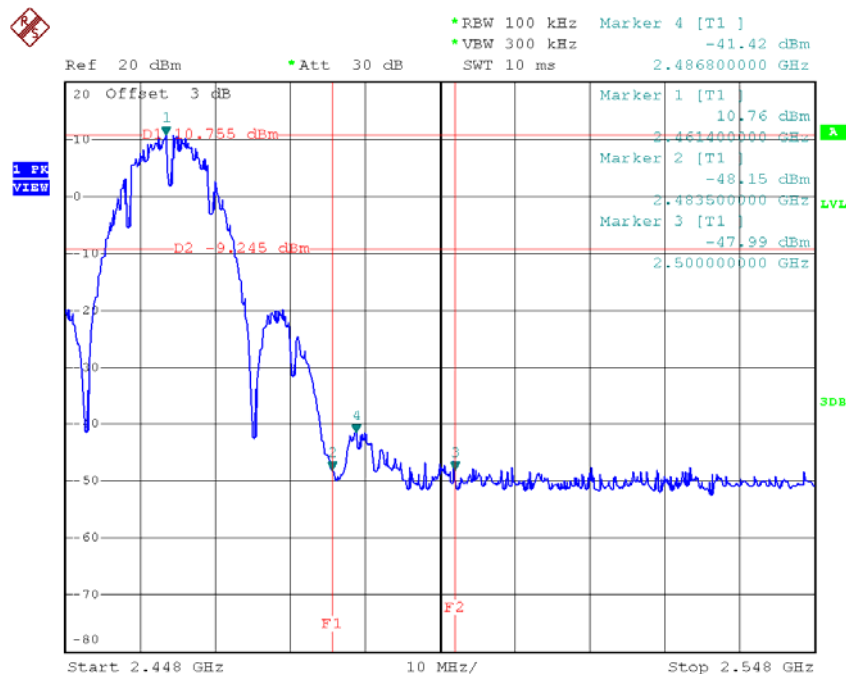
Test Mode :	TX B Mode
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TX B mode CH01



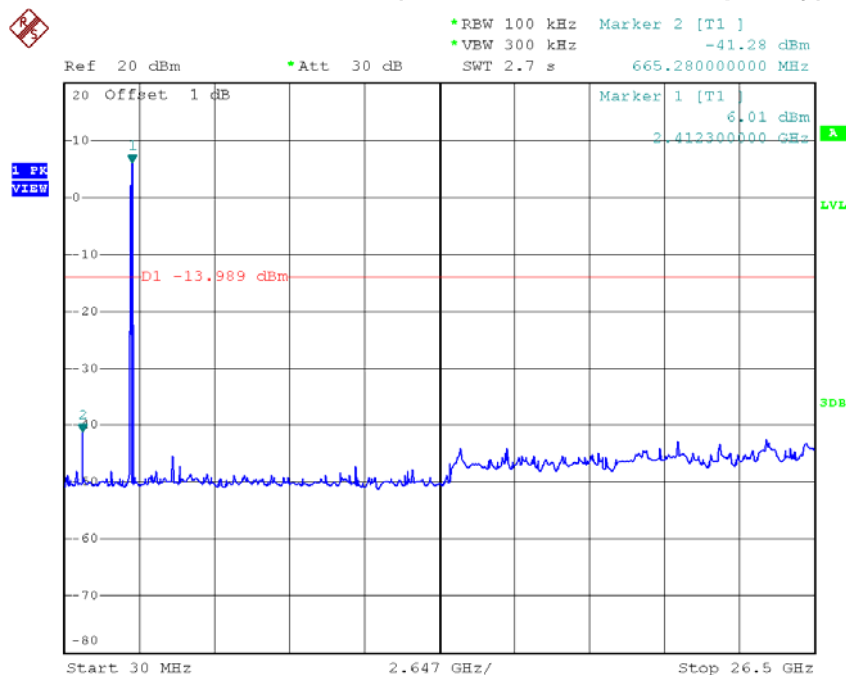
Date: 6.DEC.2014 14:58:08

TX B mode CH11



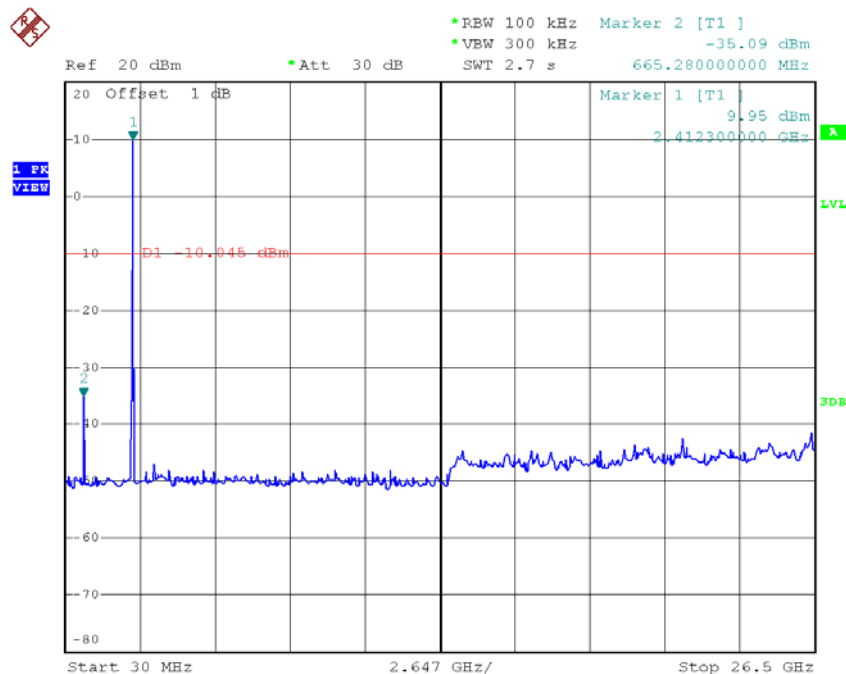
Date: 6.DEC.2014 15:01:39

TX B mode CH01 (10 Harmonic of the frequency)



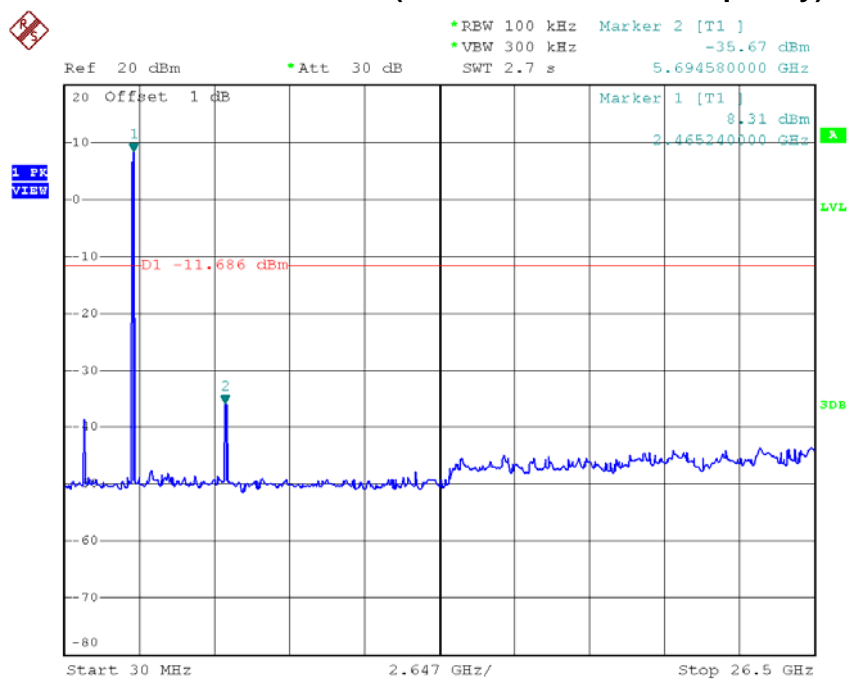
Date: 6.DEC.2014 14:58:00

TX B mode CH06 (10 Harmonic of the frequency)



Date: 6.DEC.2014 14:59:24

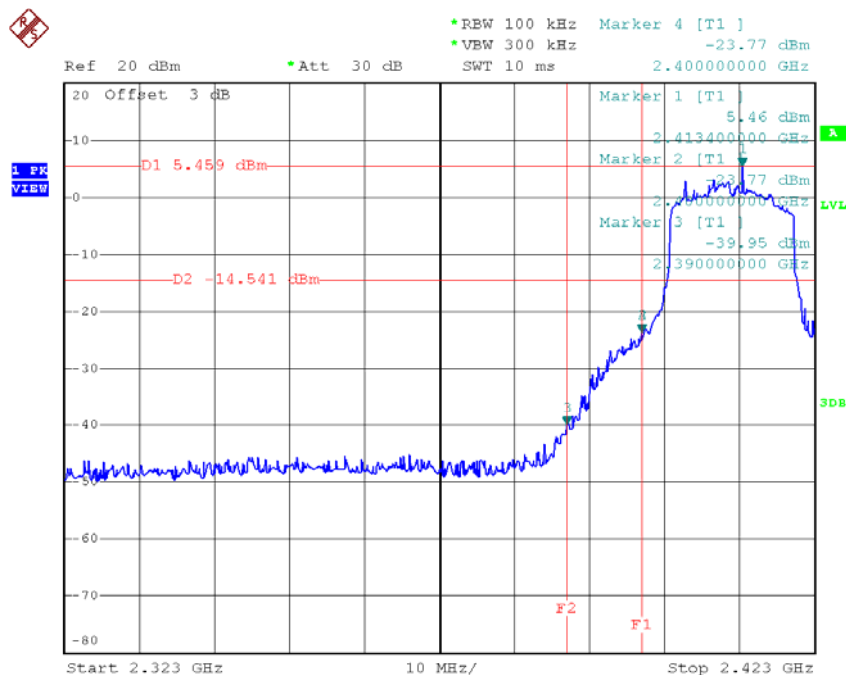
TX B mode CH11 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:01:31

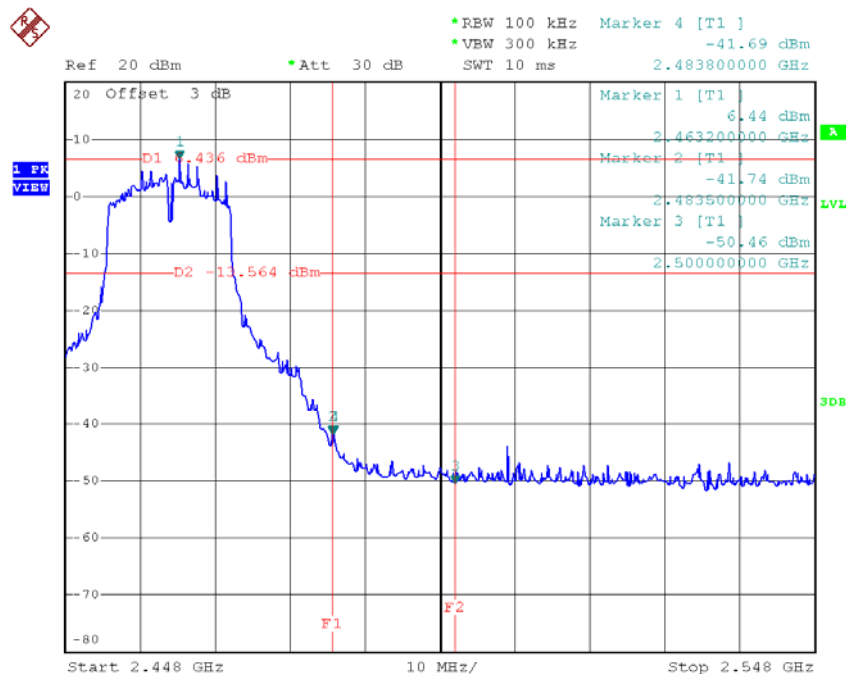
Test Mode :	TX G Mode
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TX G mode CH01



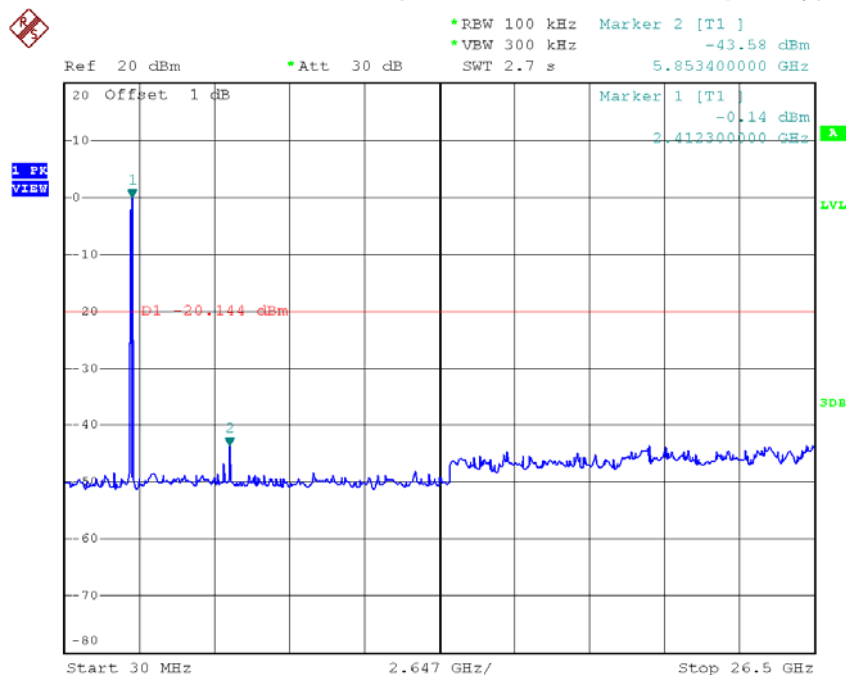
Date: 6.DEC.2014 15:04:51

TX G mode CH11



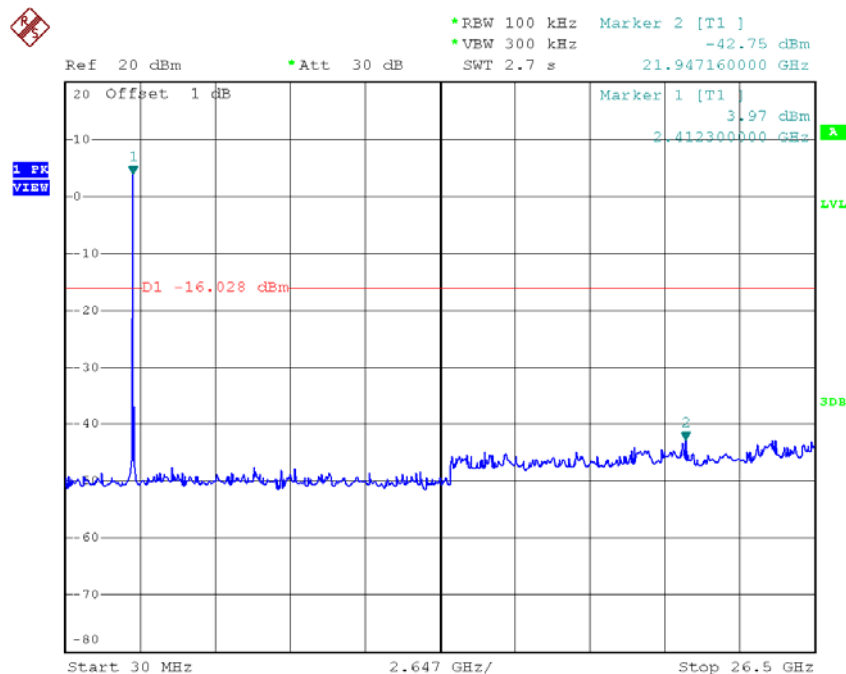
Date: 6.DEC.2014 15:07:16

TX G mode CH01 (10 Harmonic of the frequency)



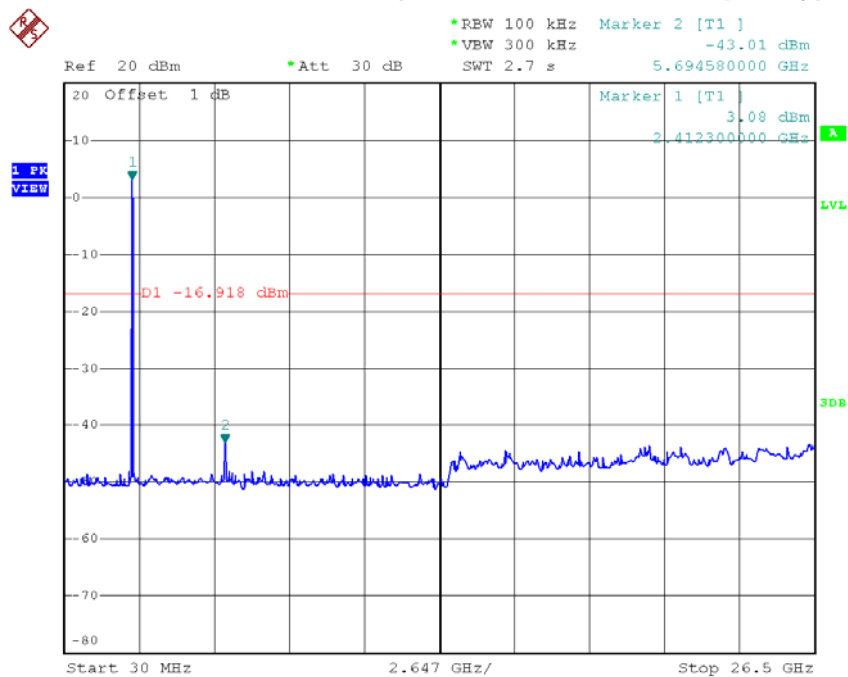
Date: 6.DEC.2014 15:04:43

TX G mode CH06 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:05:59

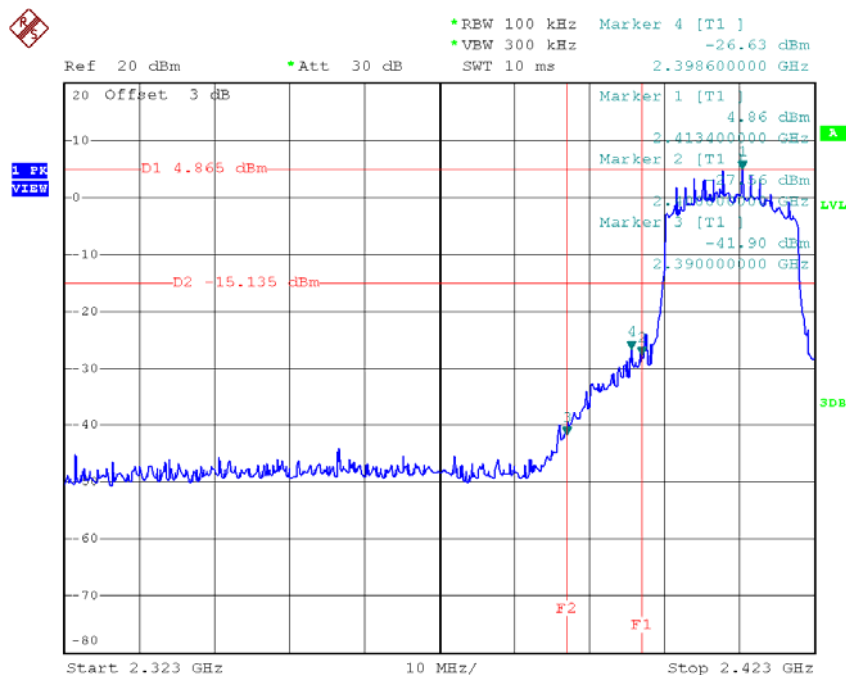
TX G mode CH11 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:07:08

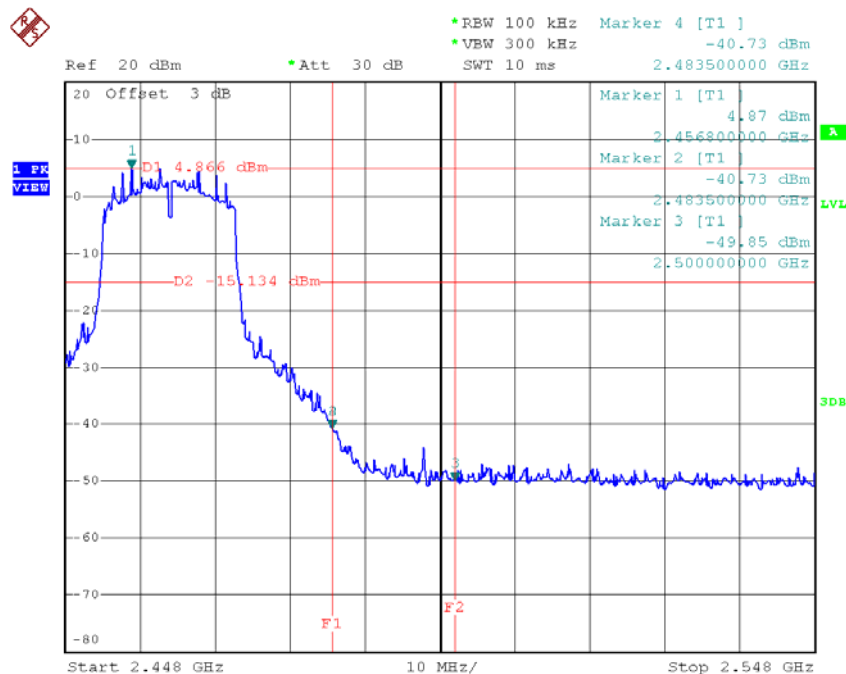
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01



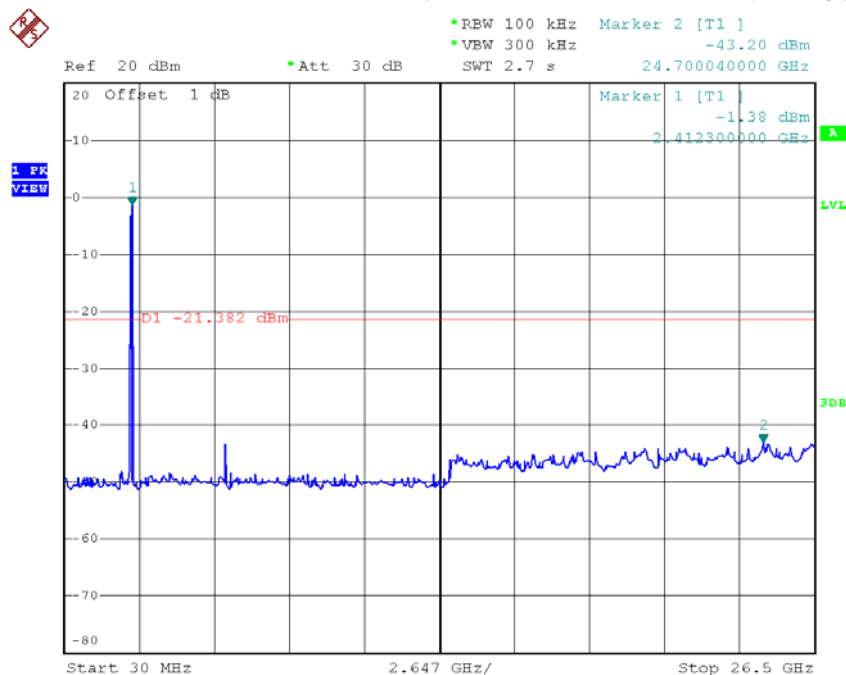
Date: 6.DEC.2014 15:09:02

TX HT20 mode CH11



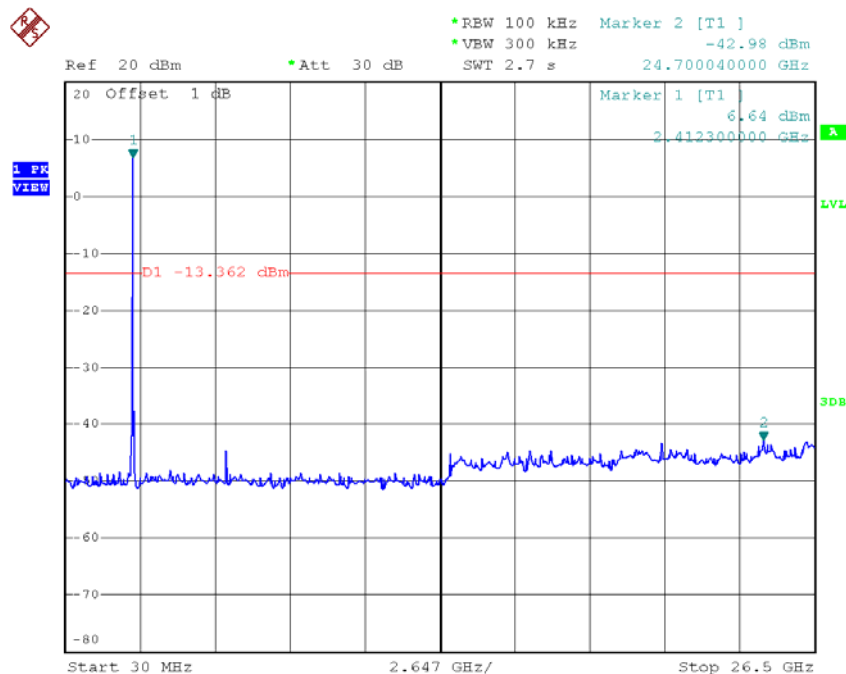
Date: 6.DEC.2014 15:11:29

TX HT20 mode CH01 (10 Harmonic of the frequency)



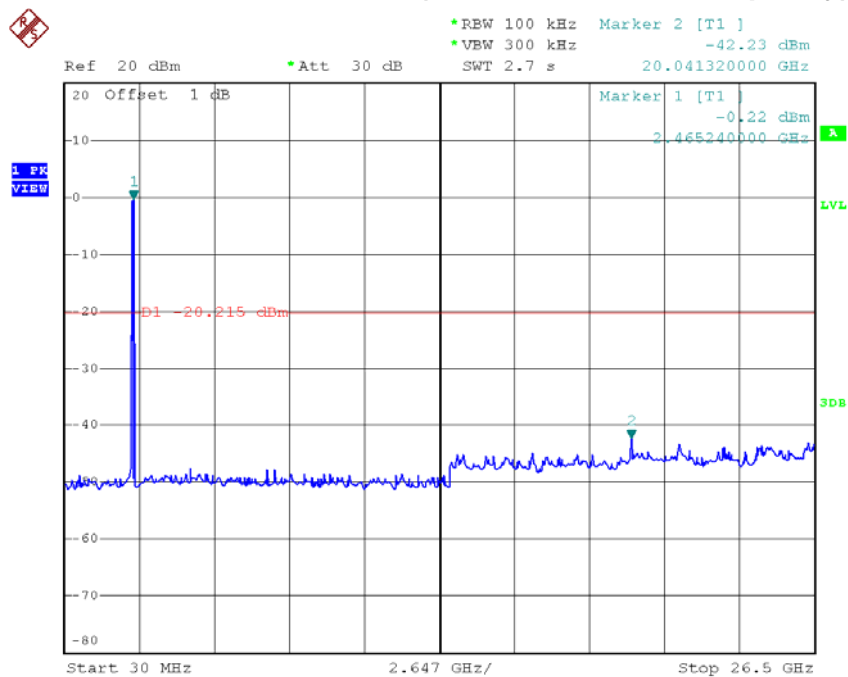
Date: 6.DEC.2014 15:08:54

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:10:02

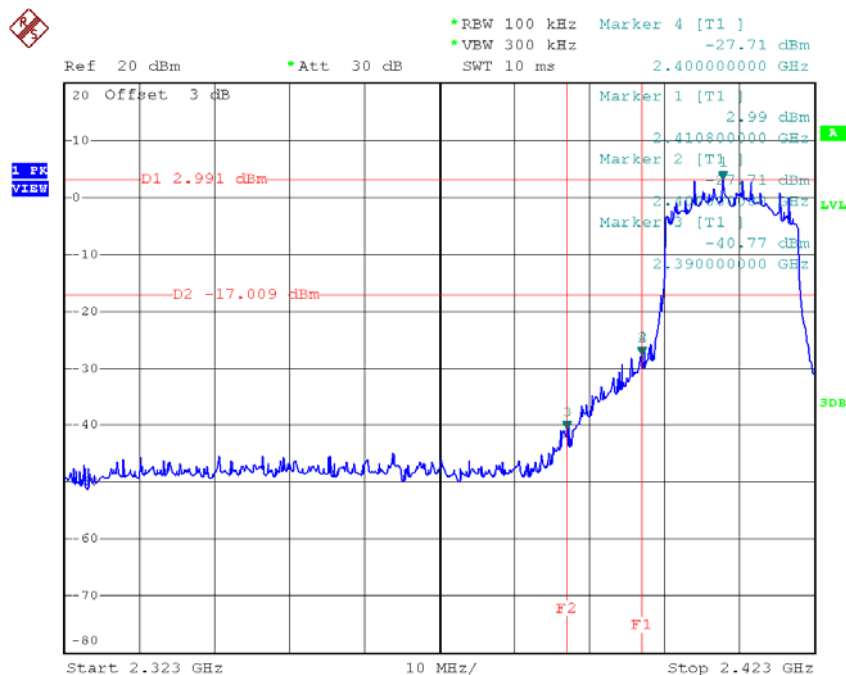
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:11:21

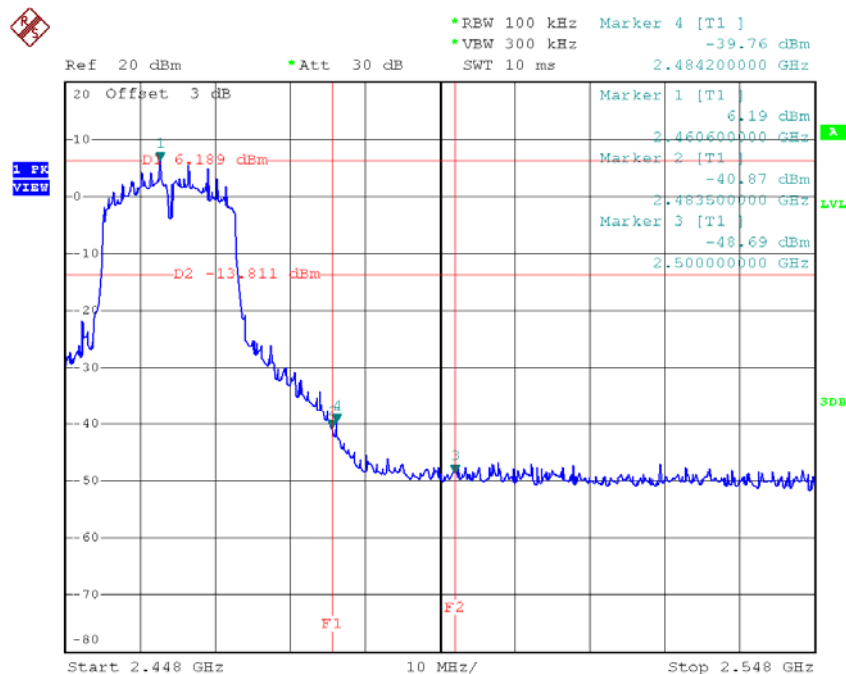
Test Mode :	TX N-20M Mode_ANT 2
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TX HT20 mode CH01



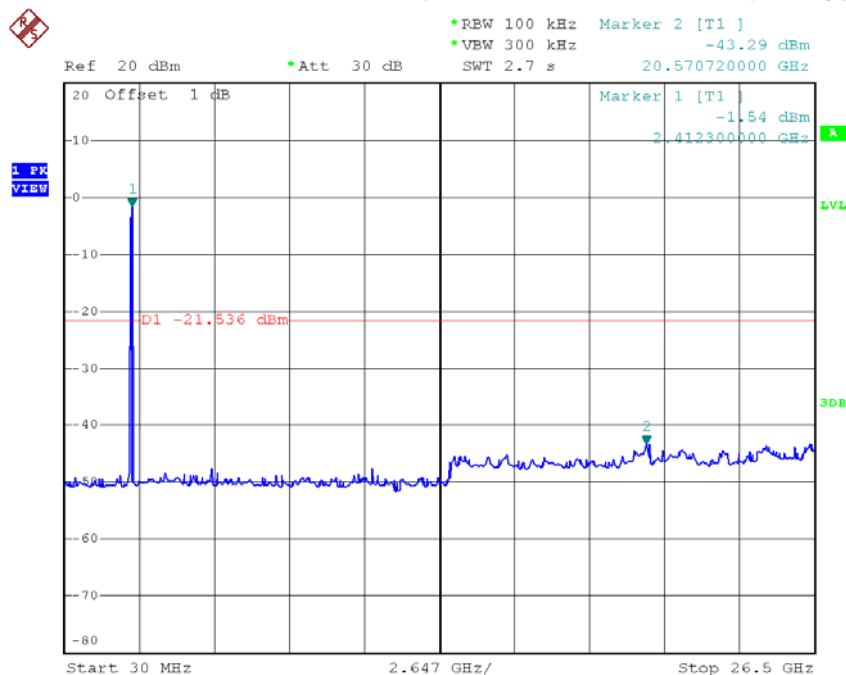
Date: 6.DEC.2014 15:14:18

TX HT20 mode CH11



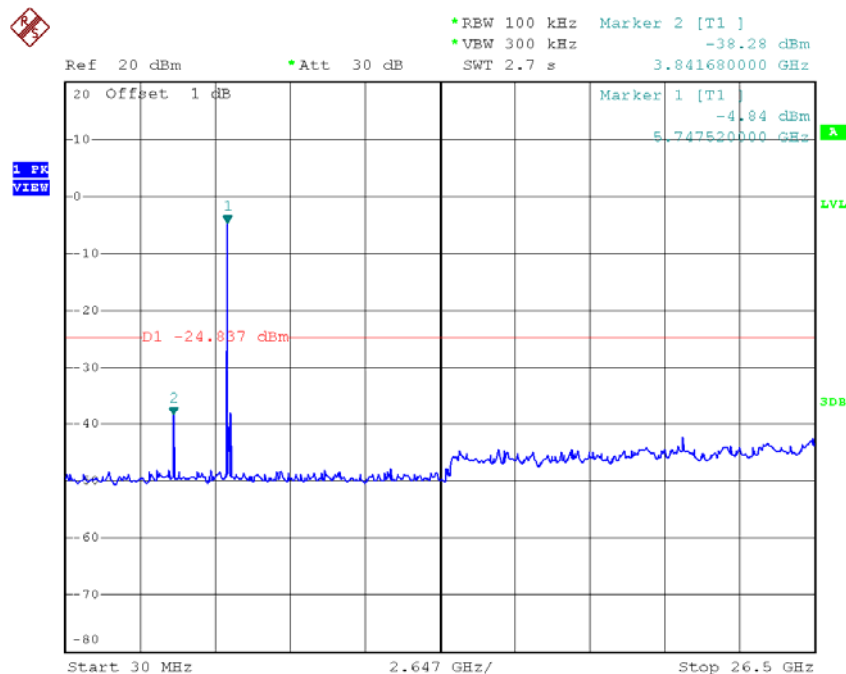
Date: 6.DEC.2014 15:31:52

TX HT20 mode CH01 (10 Harmonic of the frequency)



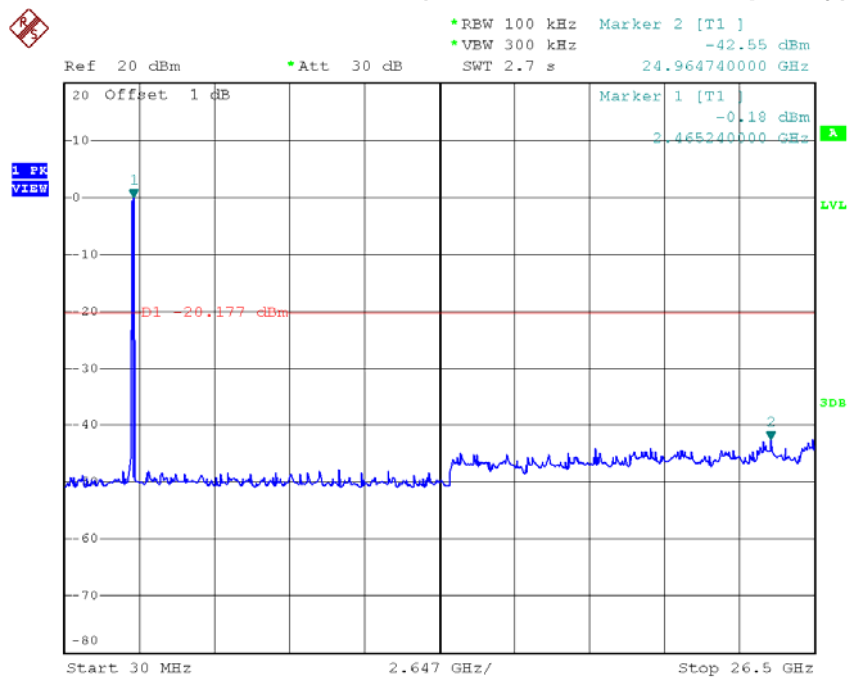
Date: 6.DEC.2014 15:14:10

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:17:19

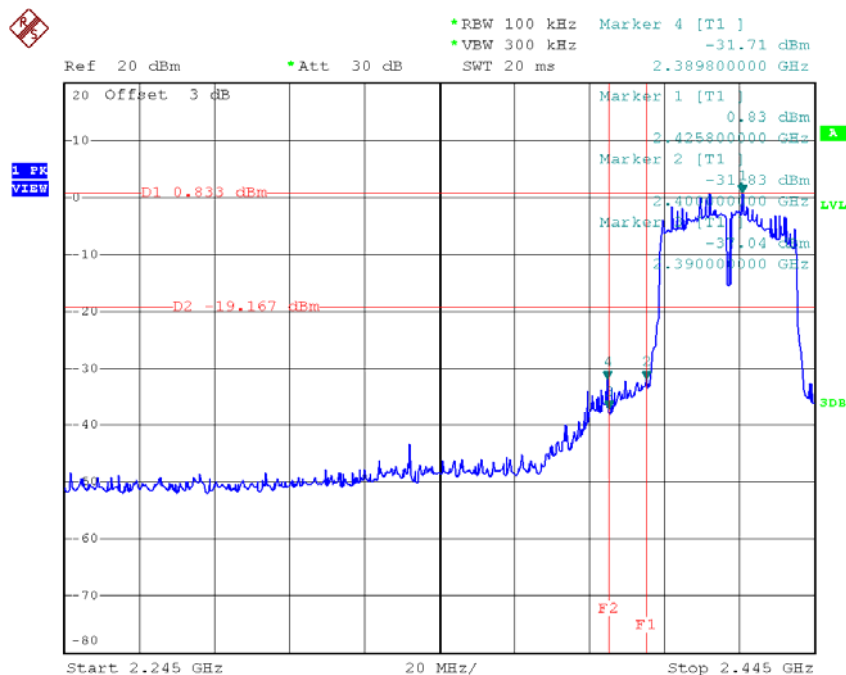
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:31:43

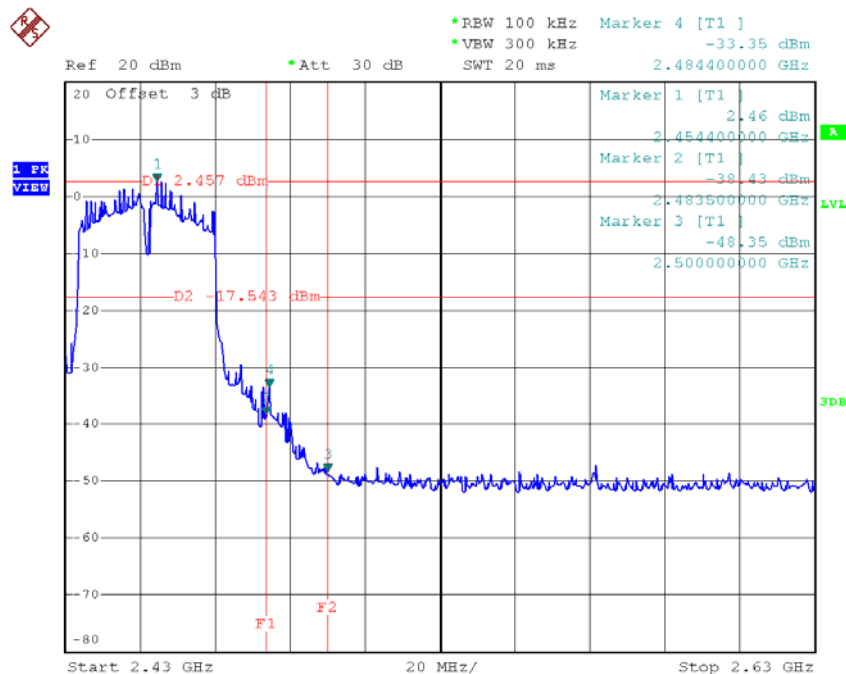
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



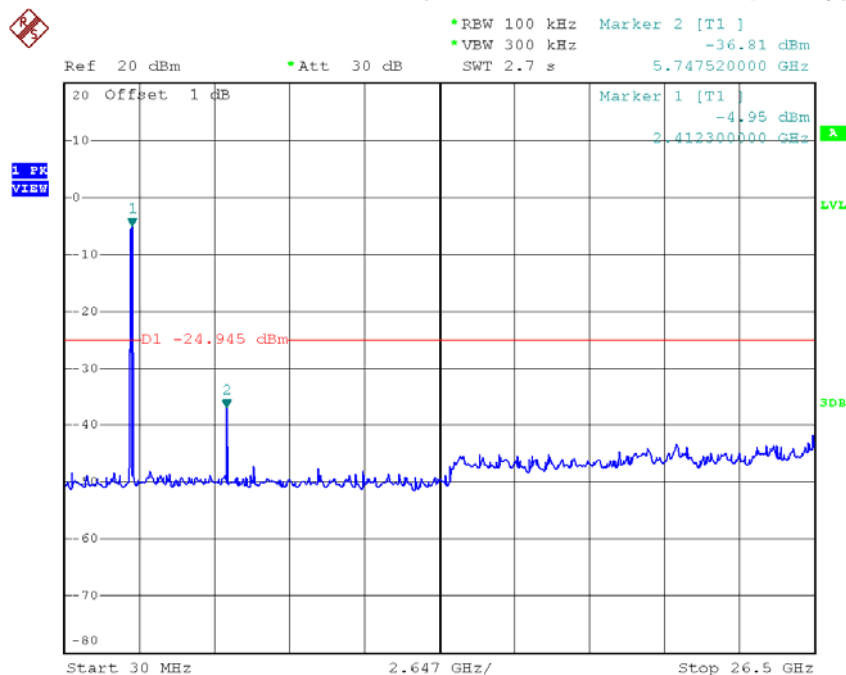
Date: 6.DEC.2014 15:33:26

TX HT40 mode CH09



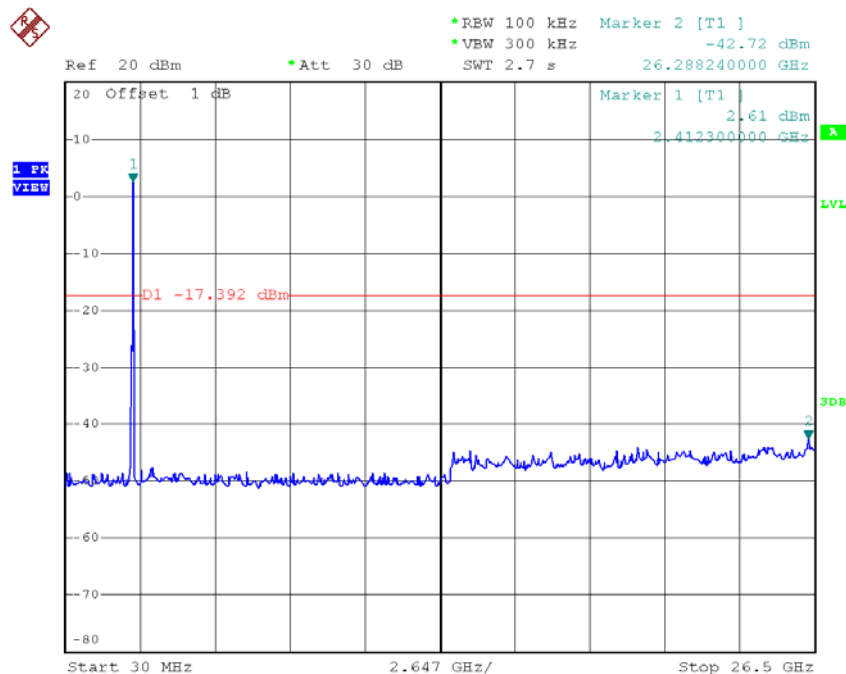
Date: 6.DEC.2014 15:35:55

TX HT40 mode CH03 (10 Harmonic of the frequency)



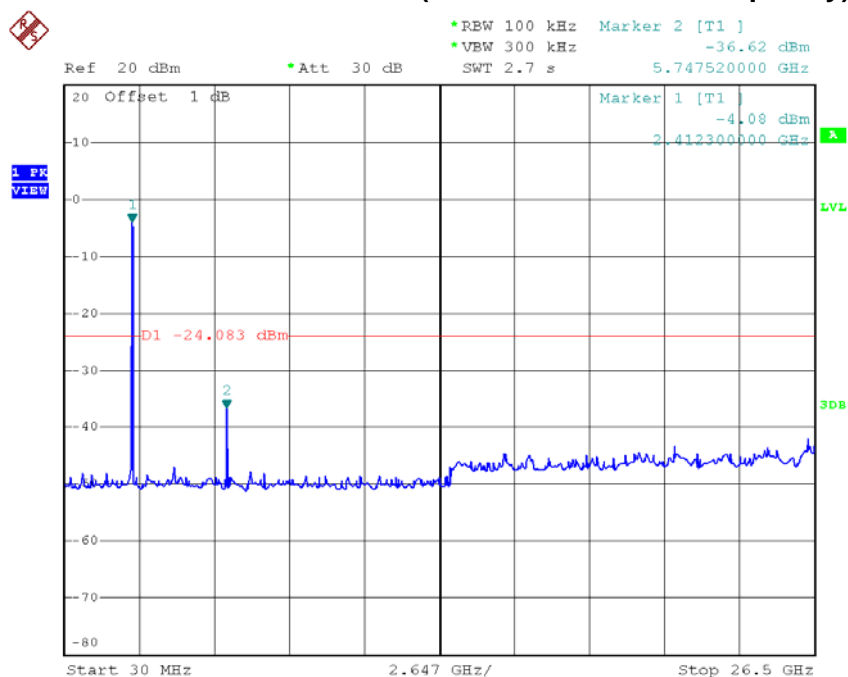
Date: 6.DEC.2014 15:33:18

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:34:34

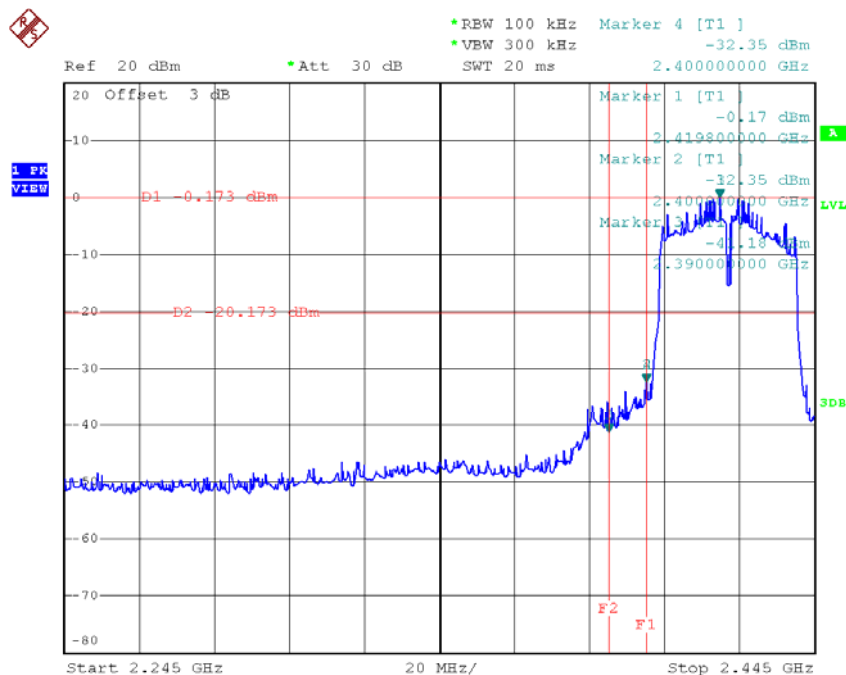
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:35:47

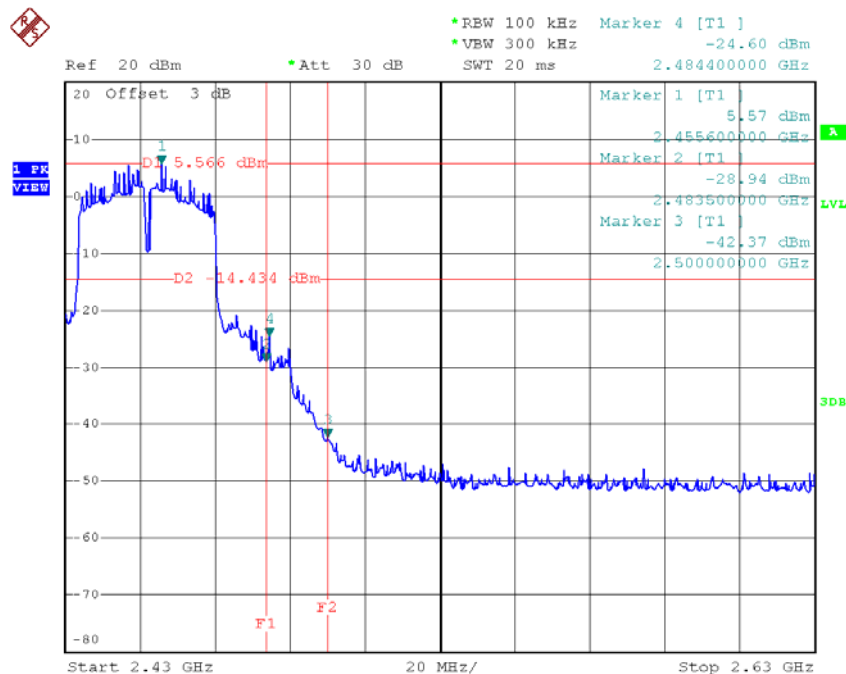
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH03



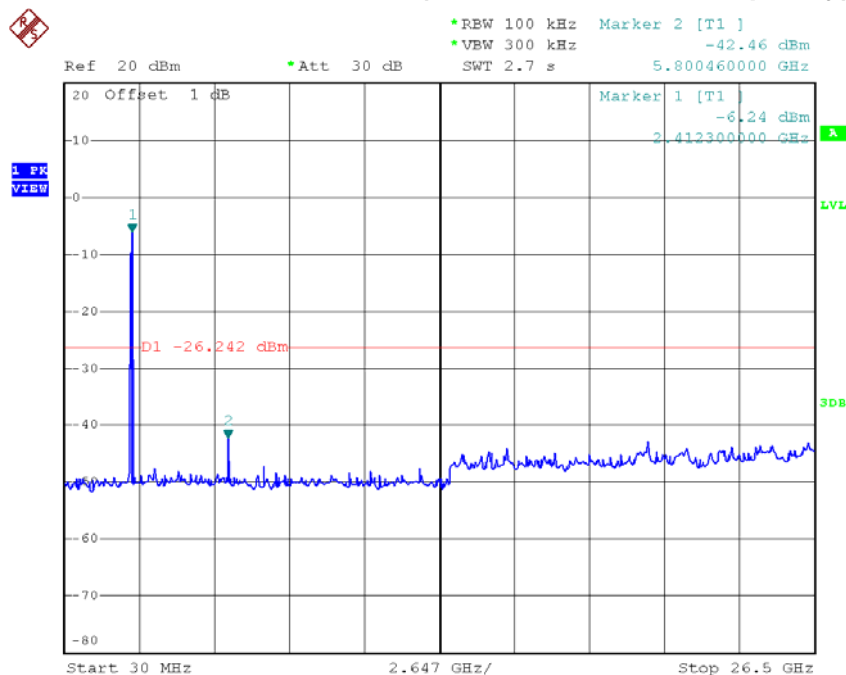
Date: 6.DEC.2014 15:37:17

TX HT40 mode CH09



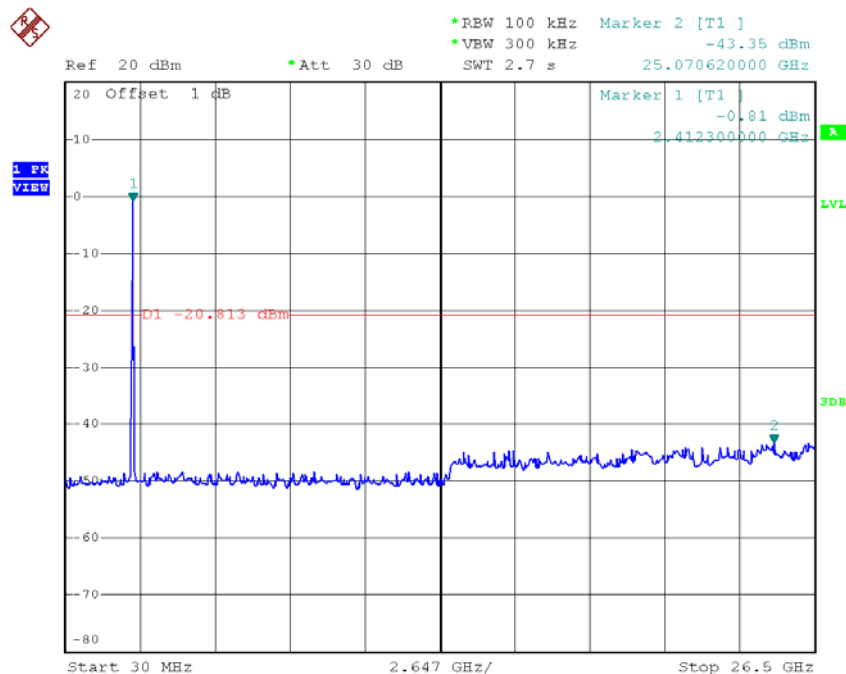
Date: 6.DEC.2014 15:39:46

TX HT40 mode CH03 (10 Harmonic of the frequency)



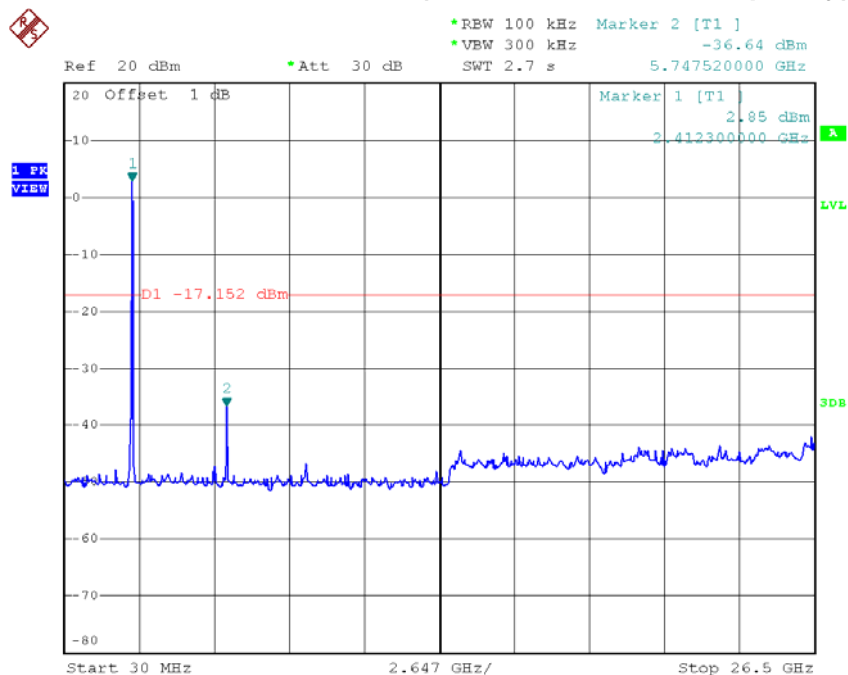
Date: 6.DEC.2014 15:37:09

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 6.DEC.2014 15:38:21

TX HT40 mode CH09 (10 Harmonic of the frequency)



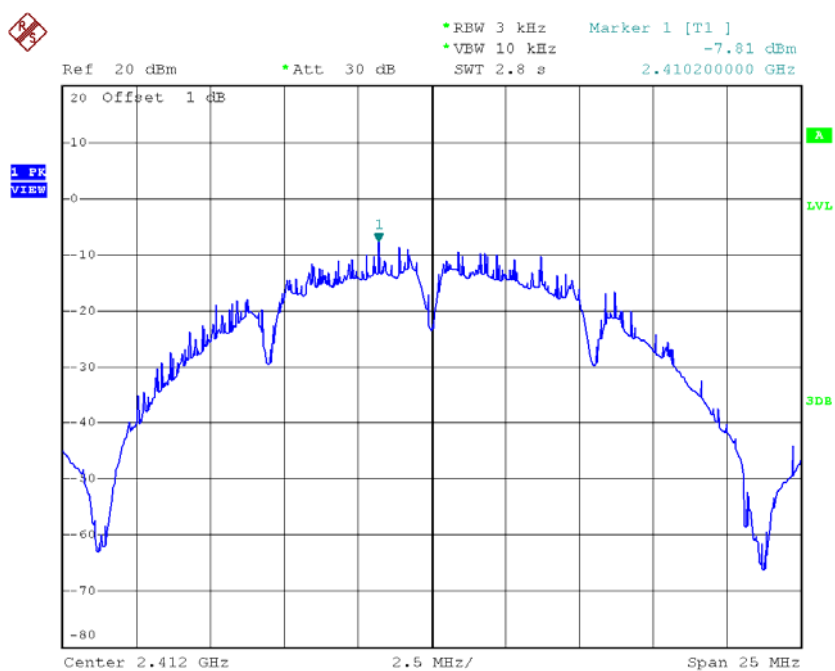
Date: 6.DEC.2014 15:39:38

ATTACHMENT I - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

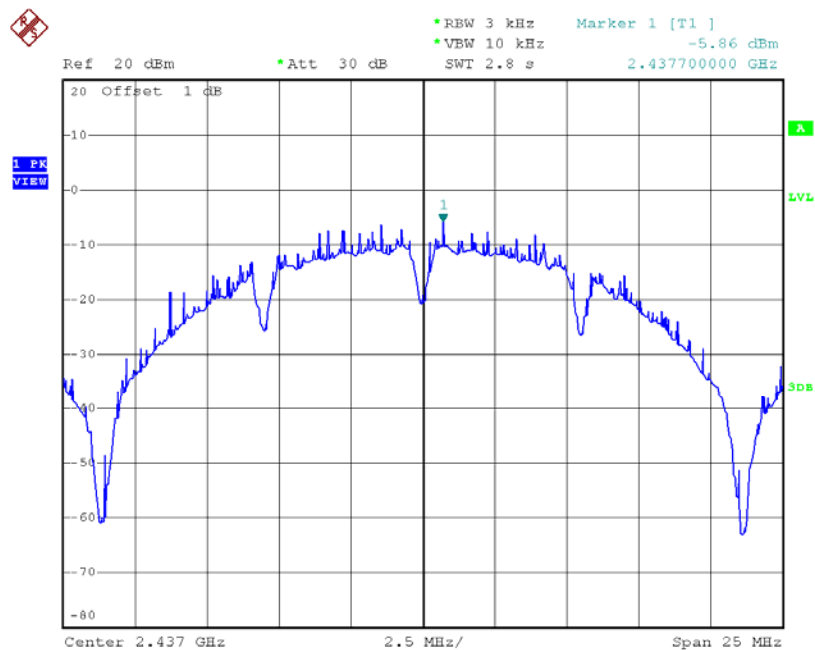
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.81	0.17	8.00	Complies
2437	-5.86	0.26	8.00	Complies
2462	-5.79	0.26	8.00	Complies

TX CH01



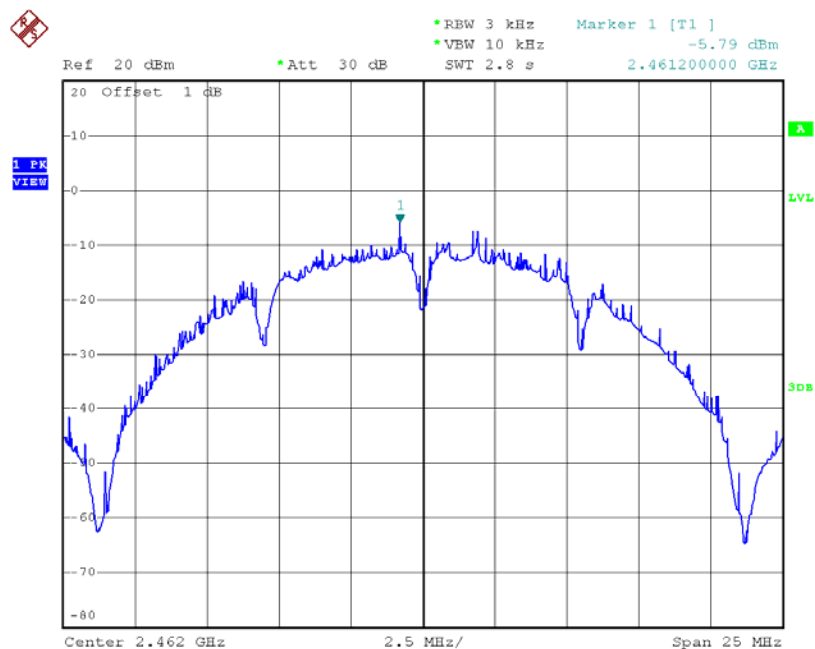
Date: 6.DEC.2014 14:58:17

TX CH06



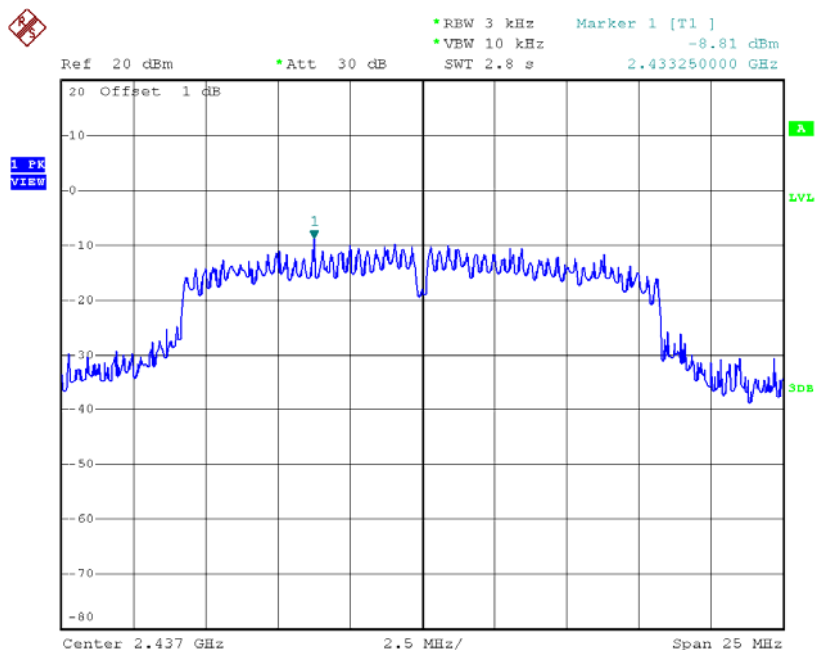
Date: 6.DEC.2014 15:00:21

TX CH11



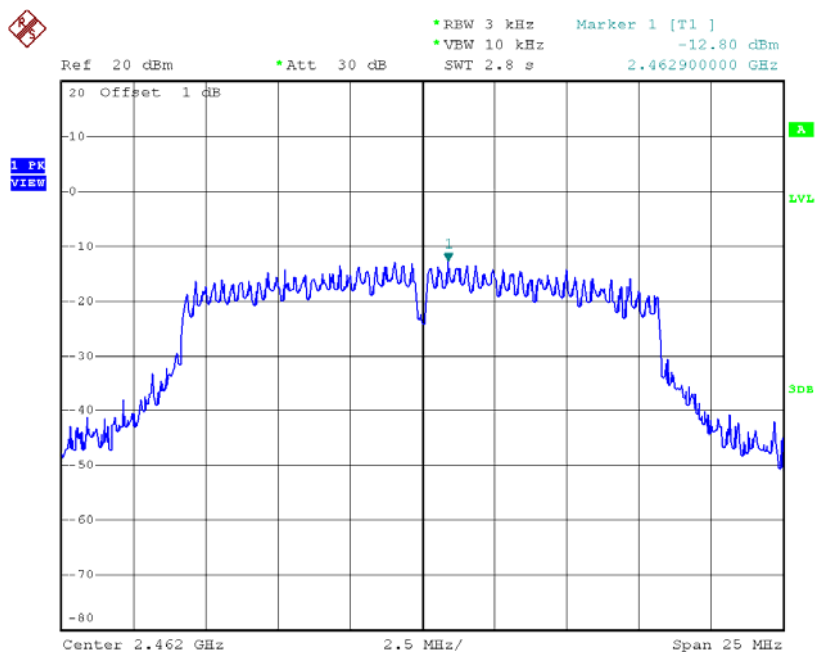
Date: 6.DEC.2014 15:03:32

TX CH06



Date: 6.DEC.2014 15:06:09

TX CH11

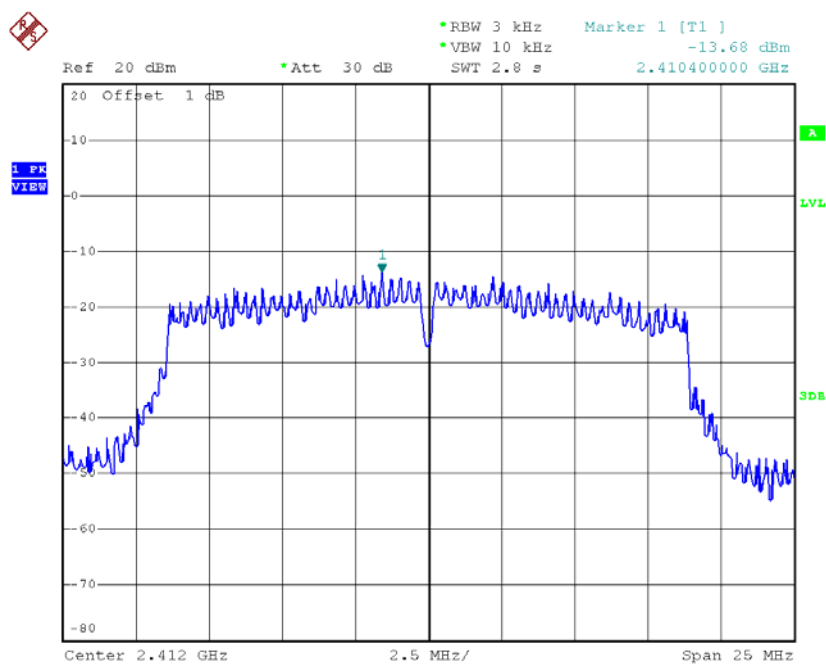


Date: 6.DEC.2014 15:07:26

Test Mode : TX N-20M Mode_CH01/06/11_ANT 1

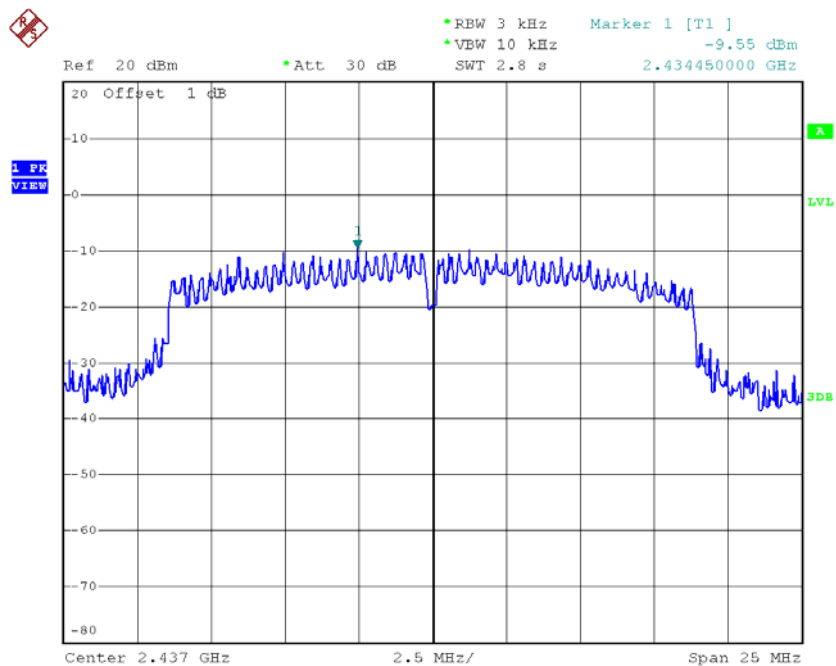
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.68	0.04	8.00	Complies
2437	-9.55	0.11	8.00	Complies
2462	-12.36	0.06	8.00	Complies

TX CH01



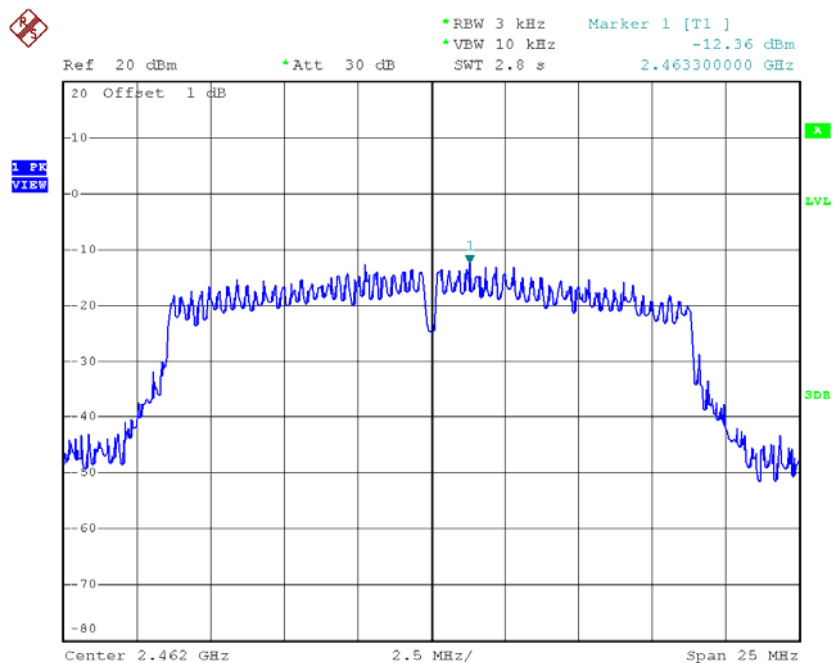
Date: 6.DEC.2014 15:09:12

TX CH06



Date: 6.DEC.2014 15:10:11

TX CH11

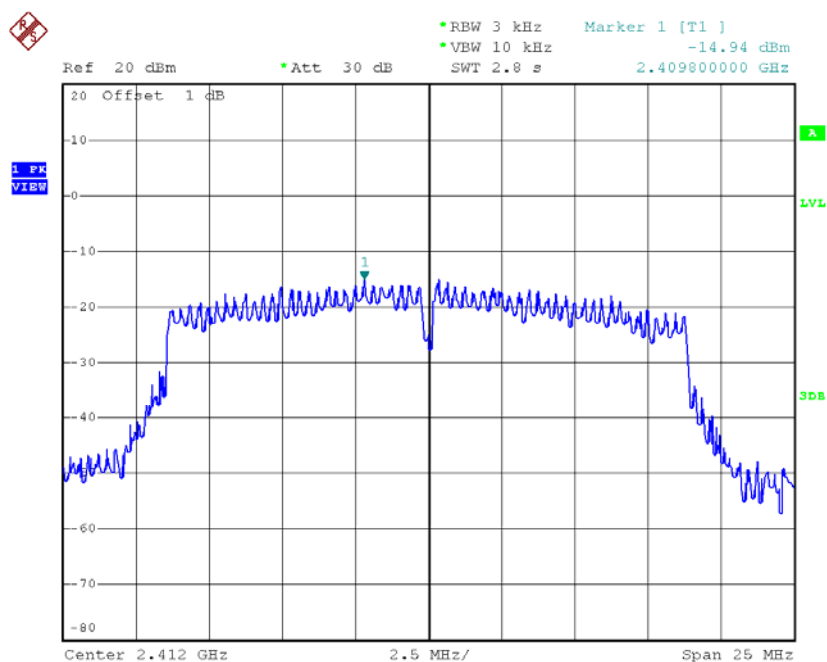


Date: 6.DEC.2014 15:11:39

Test Mode : TX N-20M Mode_CH01/06/11_ANT 2

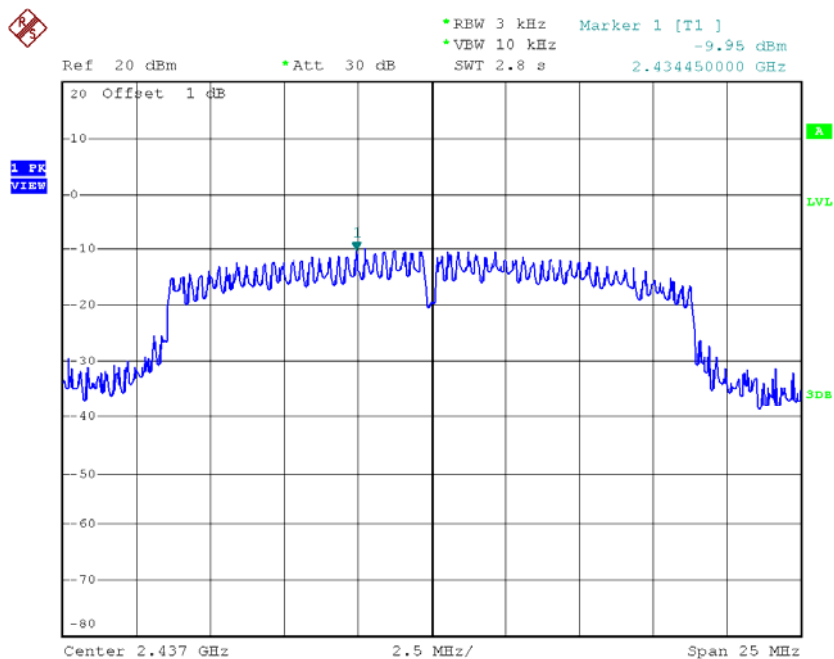
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.94	0.03	8.00	Complies
2437	-9.95	0.10	8.00	Complies
2462	-12.79	0.05	8.00	Complies

TX CH01



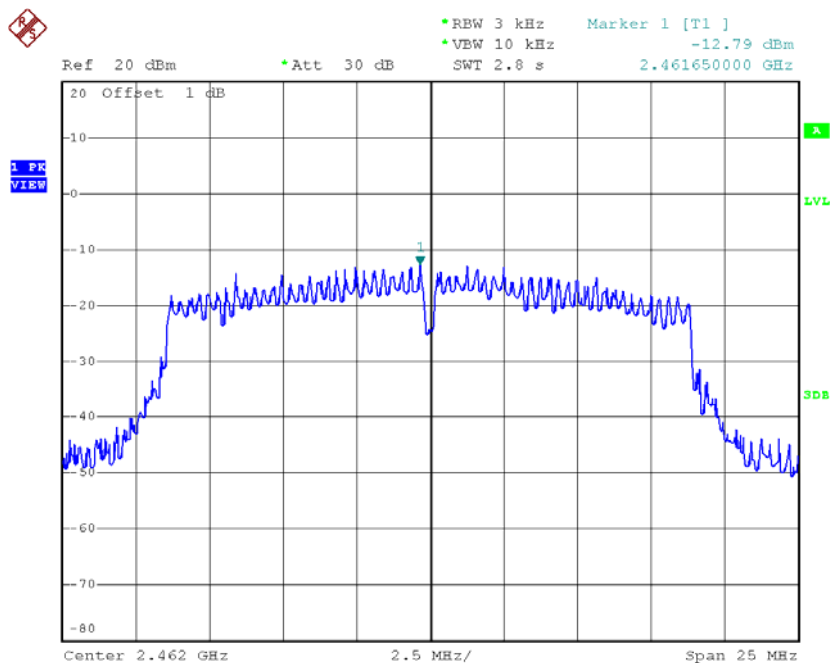
Date: 6.DEC.2014 15:14:28

TX CH06



Date: 6.DEC.2014 15:17:28

TX CH11



Date: 6.DEC.2014 15:32:01

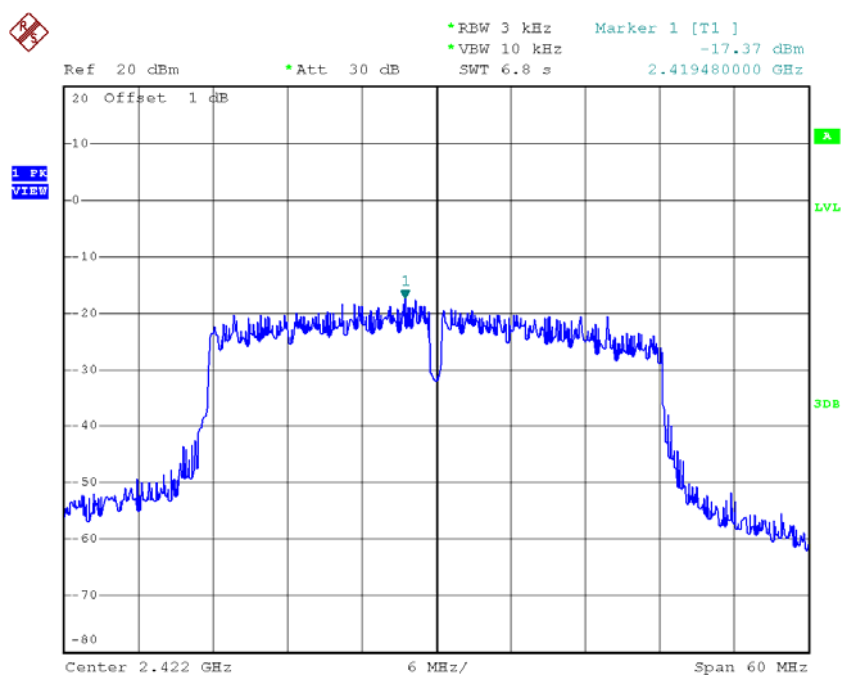
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.25	0.07	8.00	Complies
2437	-6.74	0.21	8.00	Complies
2462	-9.56	0.11	8.00	Complies

Test Mode : TX N-40M Mode_CH03/06/09_ANT 1

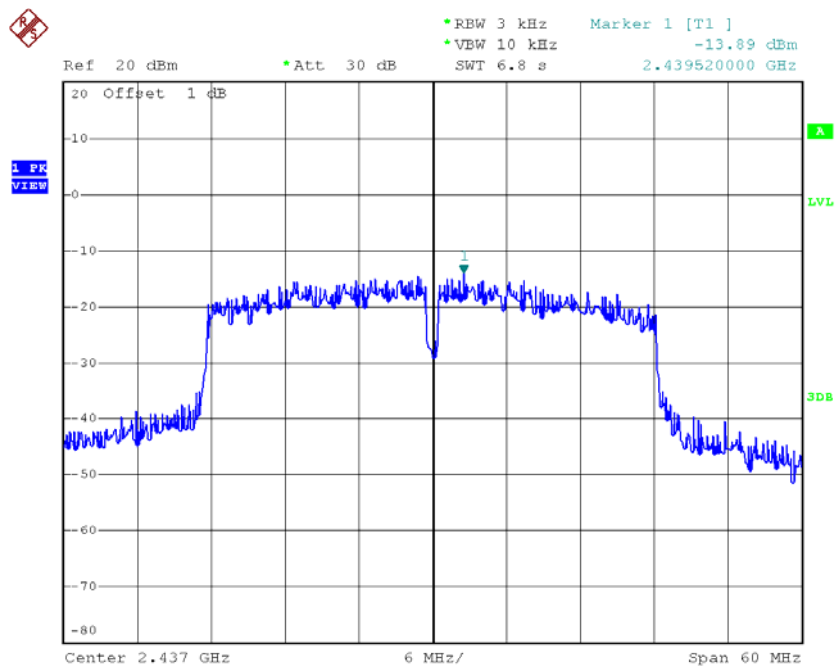
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-17.37	0.02	8.00	Complies
2437	-13.89	0.04	8.00	Complies
2452	-16.44	0.02	8.00	Complies

TX CH03



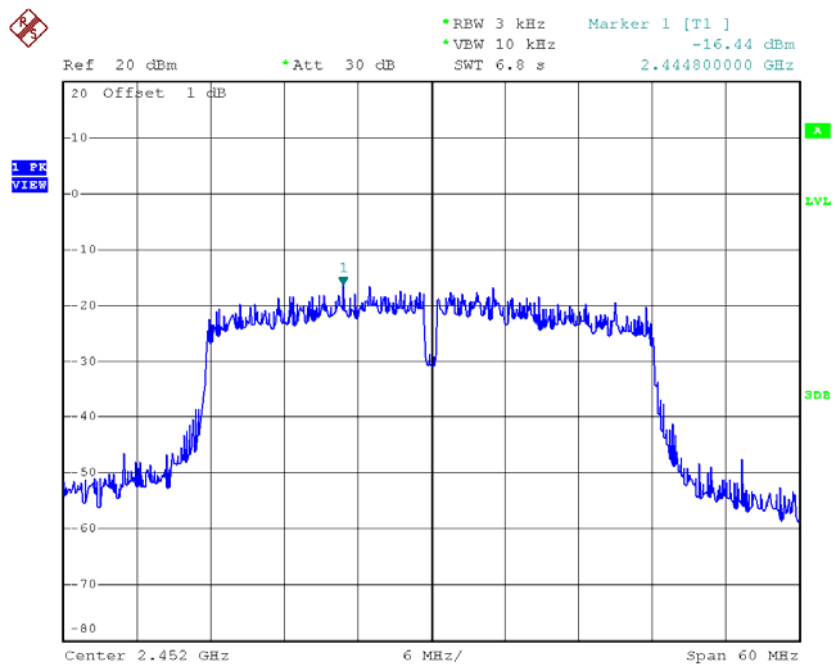
Date: 6.DEC.2014 15:33:39

TX CH06



Date: 6.DEC.2014 15:34:47

TX CH09

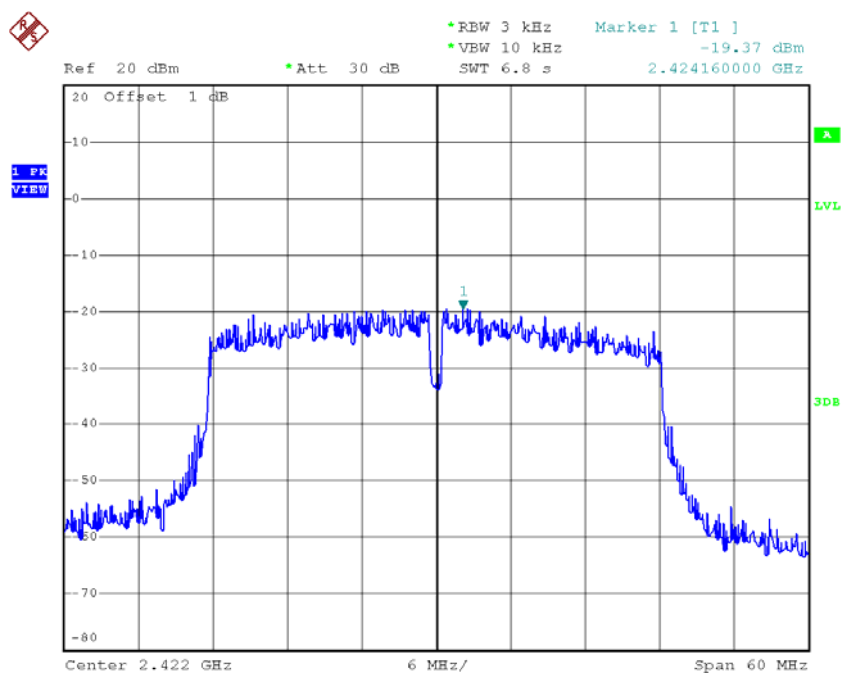


Date: 6.DEC.2014 15:36:07

Test Mode : TX N-40M Mode_CH03/06/09_ANT 2

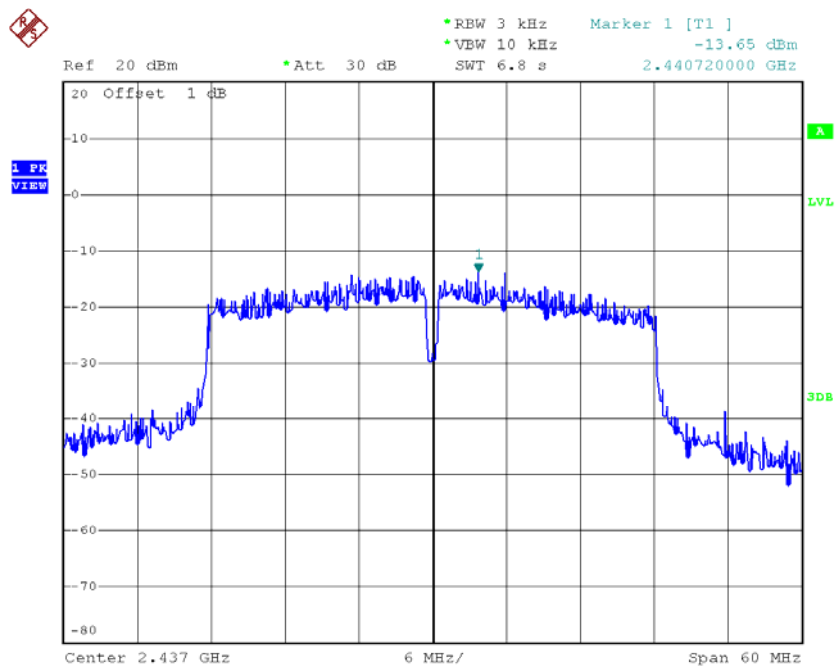
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-19.37	0.01	8.00	Complies
2437	-13.65	0.04	8.00	Complies
2452	-13.00	0.05	8.00	Complies

TX CH03



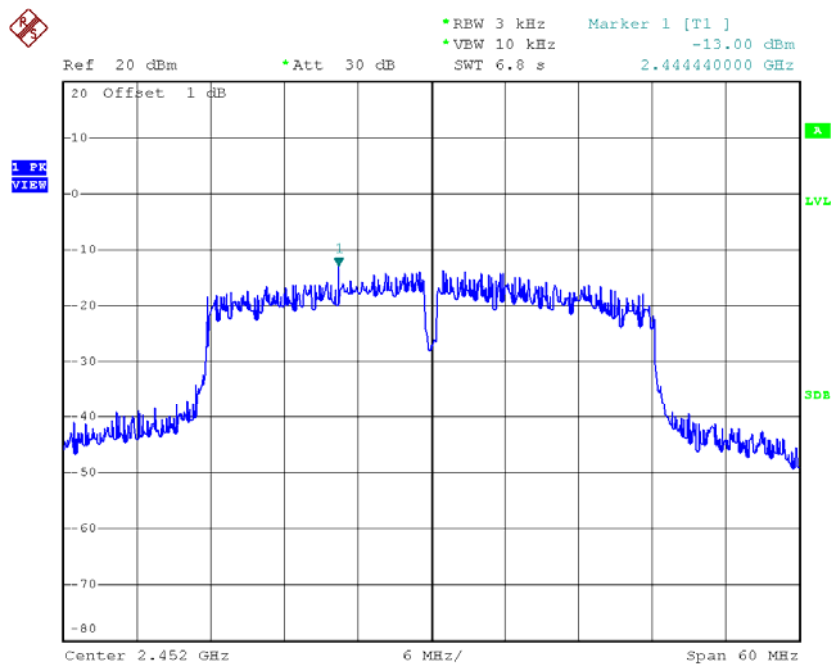
Date: 6.DEC.2014 15:37:30

TX CH06



Date: 6.DEC.2014 15:38:33

TX CH09



Date: 6.DEC.2014 15:39:59

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.25	0.03	8.00	Complies
2437	-10.76	0.08	8.00	Complies
2452	-11.38	0.07	8.00	Complies