

FCC Radio Test Report

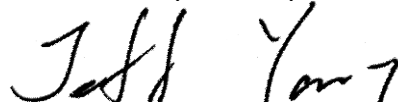
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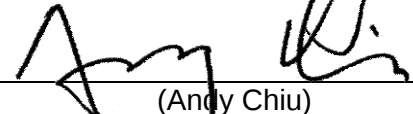
This report concerns (check one): ☒ Original Grant ☐ Class II Change

Project No. : 1410008
Equipment : Surpass
Model Name : DMC-23X6 (X=0~9,A~Z)
Applicant : VAST TECHNOLOGIES INC.
Address : 7F, NO.80, SEC.1, KUANG FU
RD. SANCHUNG, TAIPEI, TAIWAN, R.O.C.

Date of Receipt : Oct. 07, 2014
Date of Test : Oct. 07, 2014 ~ Jun. 17, 2015
Issued Date : Jun. 23, 2015
Tested by : BTL Inc.

Testing Engineer : 
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Declaration

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1410008	Original Issue.	Jun. 23, 2015

1. CERTIFICATION

Equipment : Surpass
Brand Name : VAST
Model Name : DMC-23X6 (X=0~9,A~Z)
Applicant : VAST TECHNOLOGIES INC.
Manufacturer : VAST TECHNOLOGIES INC.
Address : 7F, NO.80, SEC.1, KUANG FU RD. SANCHUNG, TAIPEI, TAIWAN, R.O.C.
Date of Test : Oct. 07, 2014 ~Jun. 17, 2015
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C: 2014 (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-1-1410008) 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: 2014			
Standard(s) Section	Test Item	Judgment	Remark
FCC			
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 v03r03 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

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

Conducted emission Test:

C05: FCC RN:965108; FCC DN:TW1082)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted emission test:

Test Site	Measurement Frequency Range	U,(dB)	NOTE
C05	150 kHz ~ 30 MHz	2.59	

B. Radiated emission test:

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

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

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

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

Radiated Disturbance (electric field strength on an open area test site or alternative test site) –

30 MHz – 1000 MHz: 5.2 dB

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

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

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

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

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Surpass	
Brand Name	VAST	
Model Name	DMC-23X6 (X=0~9,A~Z)	
Model Difference	Different model distribute to different area.	
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 150 Mbps
	Output Power (Max.)	802.11b: 17.65dBm 802.11g: 20.02dBm 802.11n(20MHz): 19.76dBm 802.11n(40MHz): 18.94dBm
Power Source	1# DC Voltage supplied from External Power Supply. Brand /Model Name: flypower / PS10A050K2000UU 2# Battery supplied.	
Power Rating	1# I/P: AC 100-240V~50/60Hz, 0.35A O/P: 5V 2000mA 2# DC 3.6V (3 * AA battery, DC1.2V 2500mAh)	

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		NB0159-A10 0BX	PCB Antenna	N/A	2.2	2.4G

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	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:

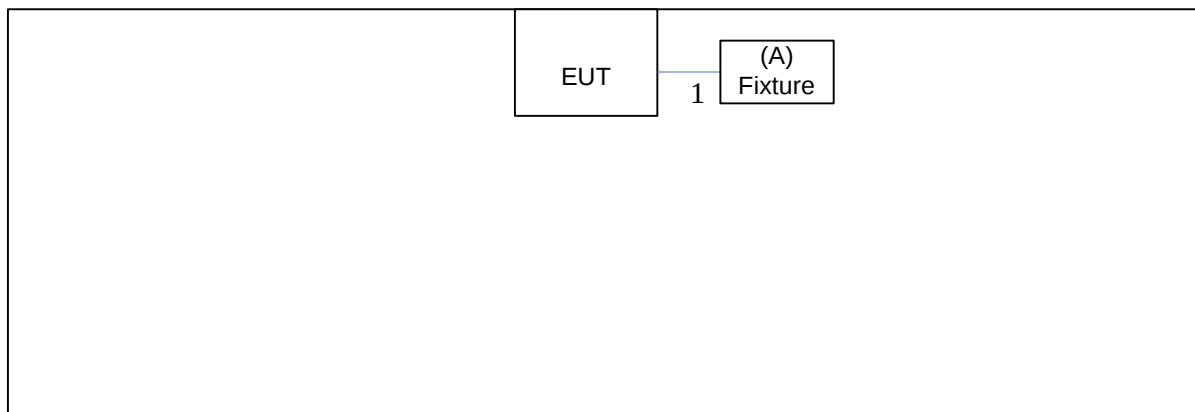
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For 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%.

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	hardware		
Frequency (MHz)	2412	2437	2462
802.11b	def.	def.	def.
802.11g	def.	def.	def.
802.11n (20MHz)	def.	def.	def.
Frequency	2422	2437	2452
802.11n (40MHz)	def.	def.	def.

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
A	Fixture	N/A	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.1m	Data 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-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

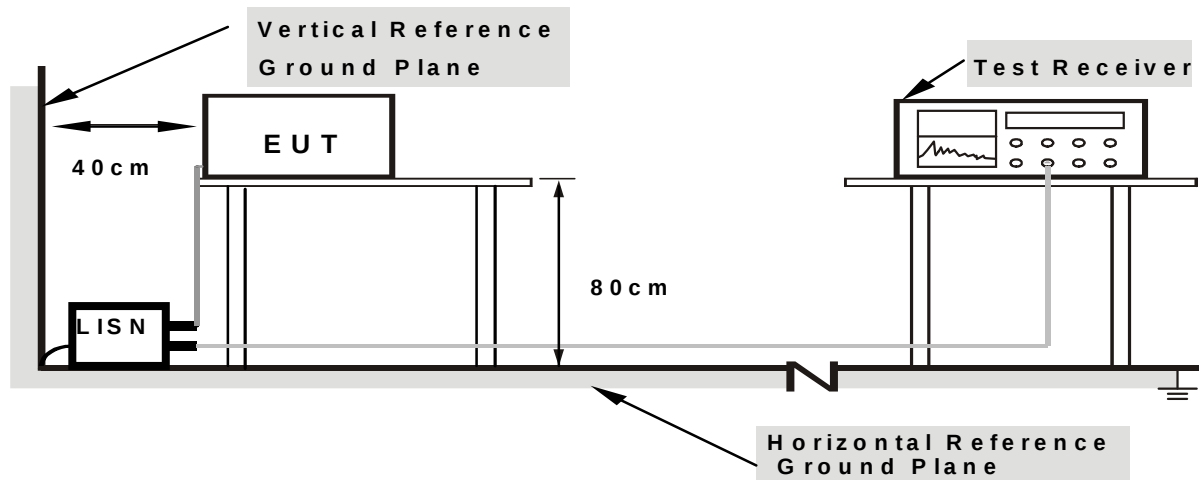
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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 cm 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.

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 (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)	RBW 1MHz VBW 3MHz peak detector for Pk value 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/PK detector

4.2.2 TEST PROCEDURE

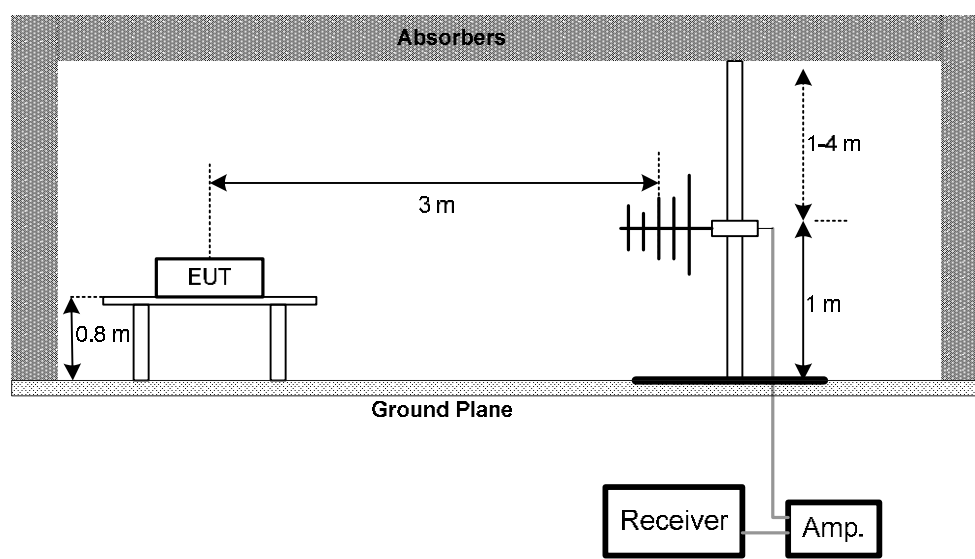
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 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 or 1.5 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

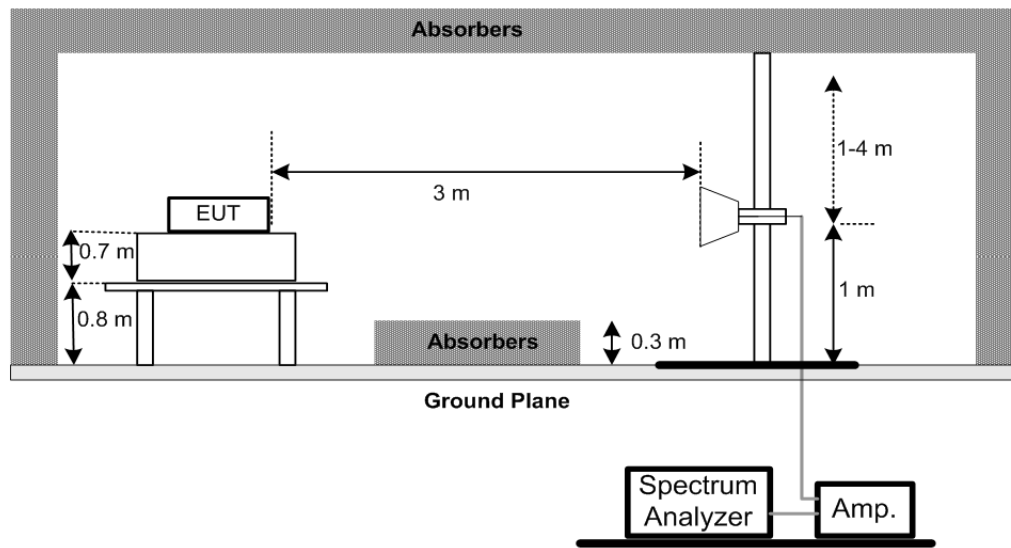
No deviation

4.2.4 TEST SETUP

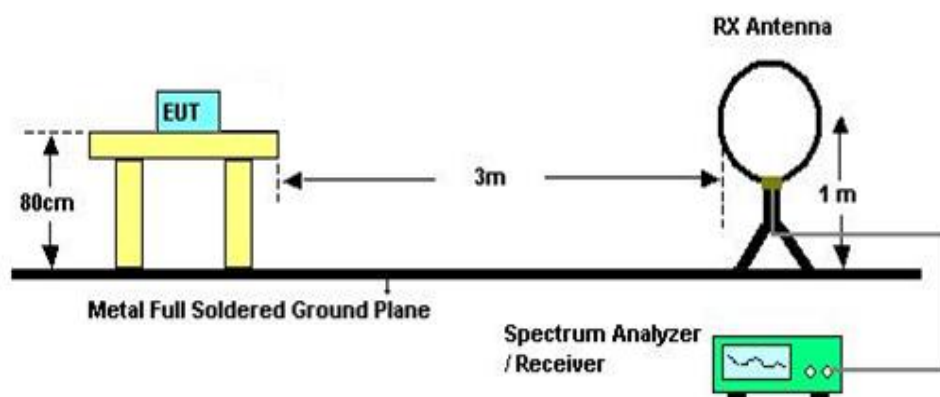
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT 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

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 (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.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C/ RSS-GEN			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	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 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: 26°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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

- 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 v03r03.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



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.

6.1.5 EUT TEST CONDITIONS

Temperature: 26°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

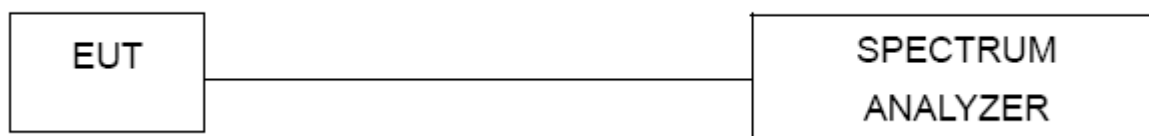
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



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: 26°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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

- 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 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.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Feb. 01, 2016
2	Test Cable	TIMES	CFD300-NL	C05	Jun. 14, 2016
3	EMI Test Receiver	R&S	ESR3	101854	Dec. 09, 2015
4	Measurement Software	EZ	EZ_EMG (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan.07, 2016
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Jun. 15, 2016
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 16, 2016
4	Microflex Cable	Harbour industries	27478LL142	1m	May 13, 2016
5	Microflex Cable	EMC	S104-SMA	8m	May 15, 2016
6	Microflex Cable	Harbour industries	27478LL142	3m	May 13, 2016
7	Test Cable	LMR	LMR-400	12m	May 14, 2016
8	Test Cable	LMR	LMR-400	3m	May 14, 2016
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 16, 2016
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jul. 10, 2015
11	Loop Antenna	EMCO	6502	00042960	Nov. 08, 2015

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 09, 2014
2	Power Meter Sensor	Anritsu	MA2411B	1126001	Aug. 09, 2014

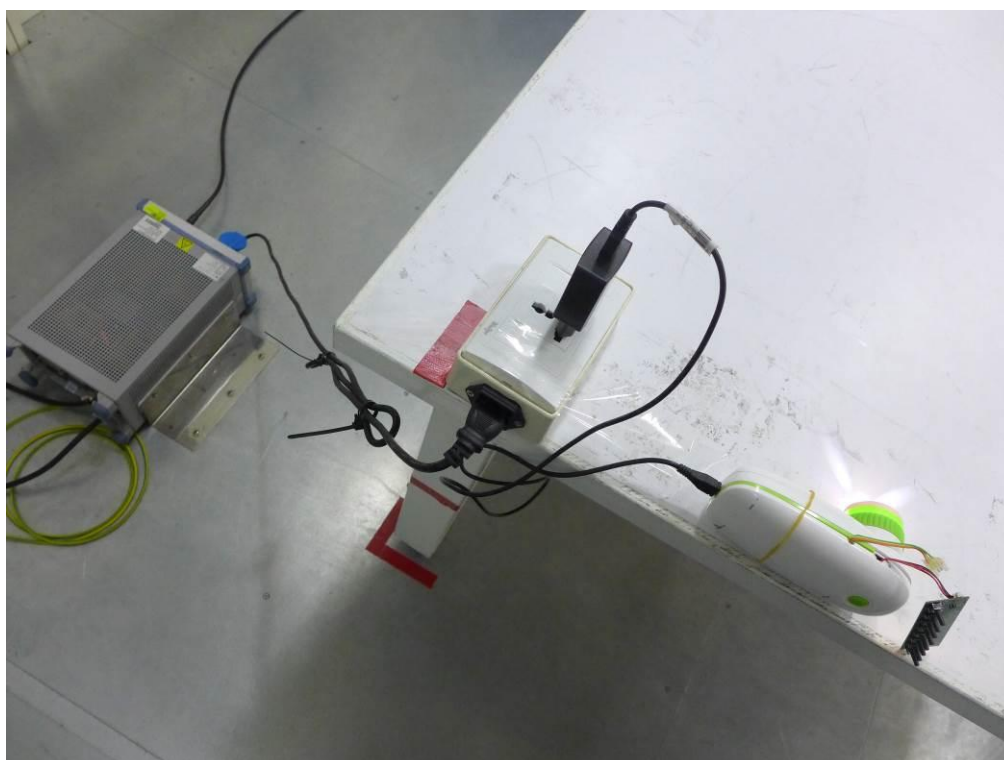
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

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



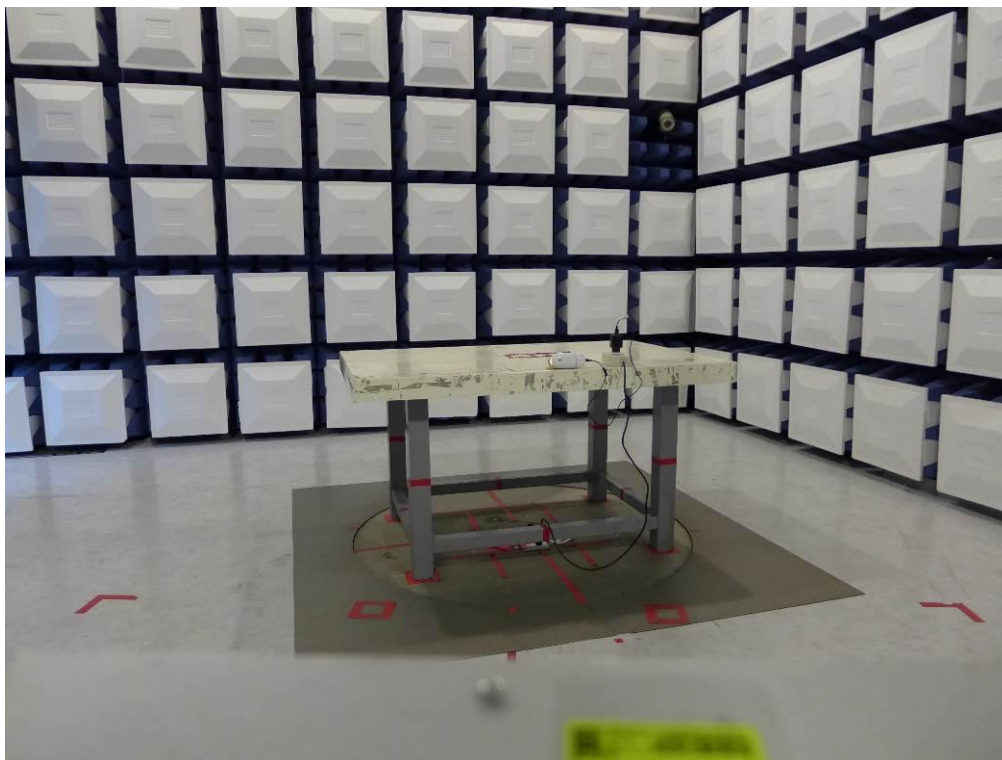
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

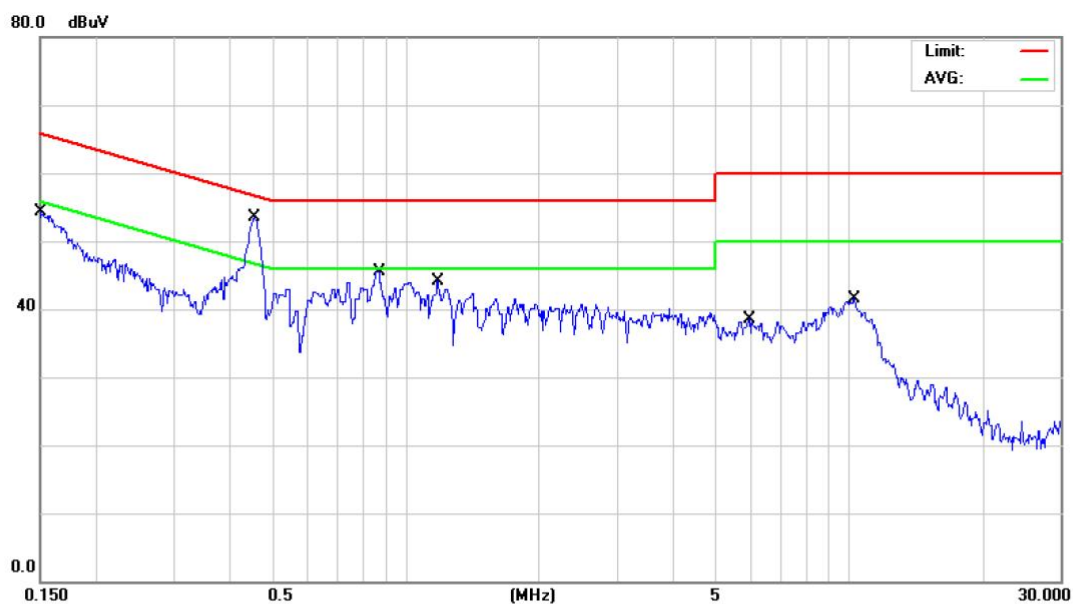
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

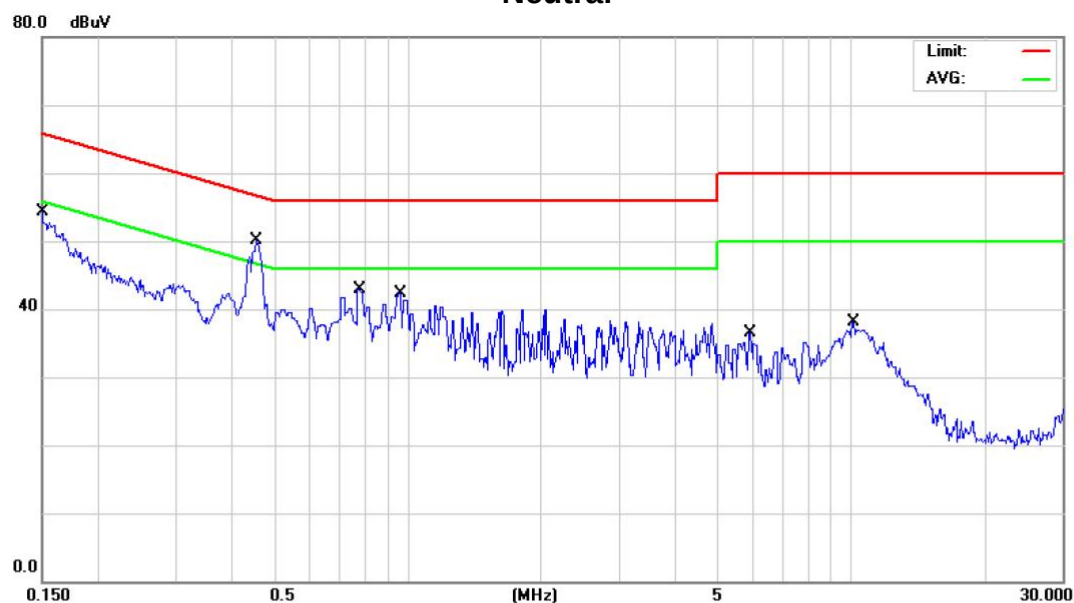
Line



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1500	39.00	9.64	48.64	65.99	-17.35	QP	
2	0.1500	21.60	9.64	31.24	55.99	-24.75	AVG	
3	0.4552	39.50	9.64	49.14	56.78	-7.64	QP	
4 *	0.4552	30.40	9.64	40.04	46.78	-6.74	AVG	
5	0.8690	31.10	9.66	40.76	56.00	-15.24	QP	
6	0.8690	21.00	9.66	30.66	46.00	-15.34	AVG	
7	1.1840	29.50	9.68	39.18	56.00	-16.82	QP	
8	1.1840	19.90	9.68	29.58	46.00	-16.42	AVG	
9	5.9500	23.70	9.87	33.57	60.00	-26.43	QP	
10	5.9500	15.60	9.87	25.47	50.00	-24.53	AVG	
11	10.2500	25.90	9.91	35.81	60.00	-24.19	QP	
12	10.2500	14.80	9.91	24.71	50.00	-25.29	AVG	

Test Mode : TX MODE

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.30	9.63	46.93	65.99	-19.06	QP	
2		0.1500	19.50	9.63	29.13	55.99	-26.86	AVG	
3		0.4559	34.20	9.65	43.85	56.77	-12.92	QP	
4	*	0.4559	24.30	9.65	33.95	46.77	-12.82	AVG	
5		0.7790	25.30	9.66	34.96	56.00	-21.04	QP	
6		0.7790	15.20	9.66	24.86	46.00	-21.14	AVG	
7		0.9590	24.90	9.67	34.57	56.00	-21.43	QP	
8		0.9590	14.90	9.67	24.57	46.00	-21.43	AVG	
9		5.9000	17.10	9.87	26.97	60.00	-33.03	QP	
10		5.9000	8.80	9.87	18.67	50.00	-31.33	AVG	
11		10.1000	21.60	9.92	31.52	60.00	-28.48	QP	
12		10.1000	9.30	9.92	19.22	50.00	-30.78	AVG	

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

Test Mode: TX Mode 2412MHz

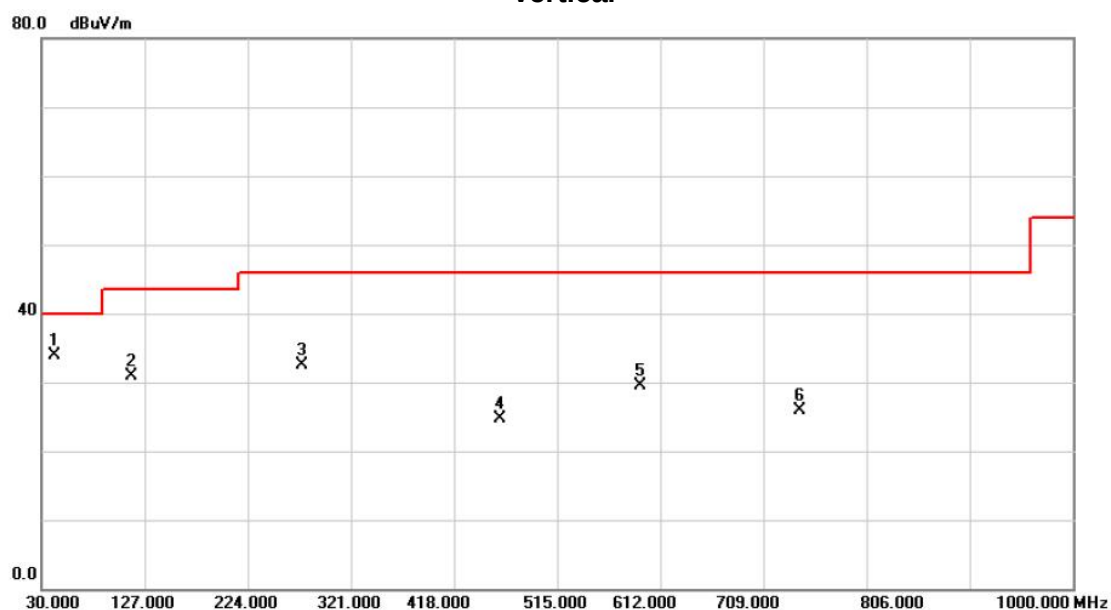
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0150	0°	33.41	22.28	55.69	104.08	-48.40	AVG
0.0150	0°	44.23	22.28	66.51	124.08	-57.58	PK
0.0255	0°	28.41	22.01	50.42	99.47	-49.05	AVG
0.0255	0°	33.52	22.01	55.53	119.47	-63.94	PK
0.0366	0°	24.75	21.74	46.49	96.33	-49.85	AVG
0.0366	0°	32.46	21.74	54.20	116.33	-62.14	PK
0.0600	0°	24.75	21.24	45.99	92.04	-46.05	AVG
0.0600	0°	33.98	21.24	55.22	112.04	-56.82	PK
1.2650	0°	34.98	20.34	55.32	65.56	-10.25	QP
1.1353	0°	32.84	20.46	53.30	66.50	-13.20	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0132	90°	33.54	22.32	55.86	105.19	-49.33	AVG
0.0132	90°	48.42	22.32	70.74	125.19	-54.45	PK
0.0257	90°	27.43	22.01	49.44	99.41	-49.97	AVG
0.0257	90°	42.81	22.01	64.82	119.41	-54.59	PK
0.0345	90°	26.54	21.79	48.33	96.85	-48.52	AVG
0.0345	90°	35.26	21.79	57.05	116.85	-59.80	PK
0.0632	90°	22.47	21.19	43.66	91.59	-47.93	AVG
0.0632	90°	28.54	21.19	49.73	111.59	-61.86	PK
1.2510	90°	34.35	20.35	54.70	65.66	-10.96	QP
1.6500	90°	32.54	19.95	52.49	63.25	-10.76	QP

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

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	*	42.1250	48.15	-14.19	33.96	40.00	-6.04	peak	
2		114.8750	48.02	-17.05	30.97	43.50	-12.53	peak	
3		274.9250	46.81	-14.40	32.41	46.00	-13.59	peak	
4		461.6500	34.63	-9.90	24.73	46.00	-21.27	peak	
5		592.6000	37.28	-7.84	29.44	46.00	-16.56	peak	
6		742.9500	31.20	-5.39	25.81	46.00	-20.19	peak	

Test Mode:	TX B MODE CHANNEL 06
------------	----------------------

Horizontal

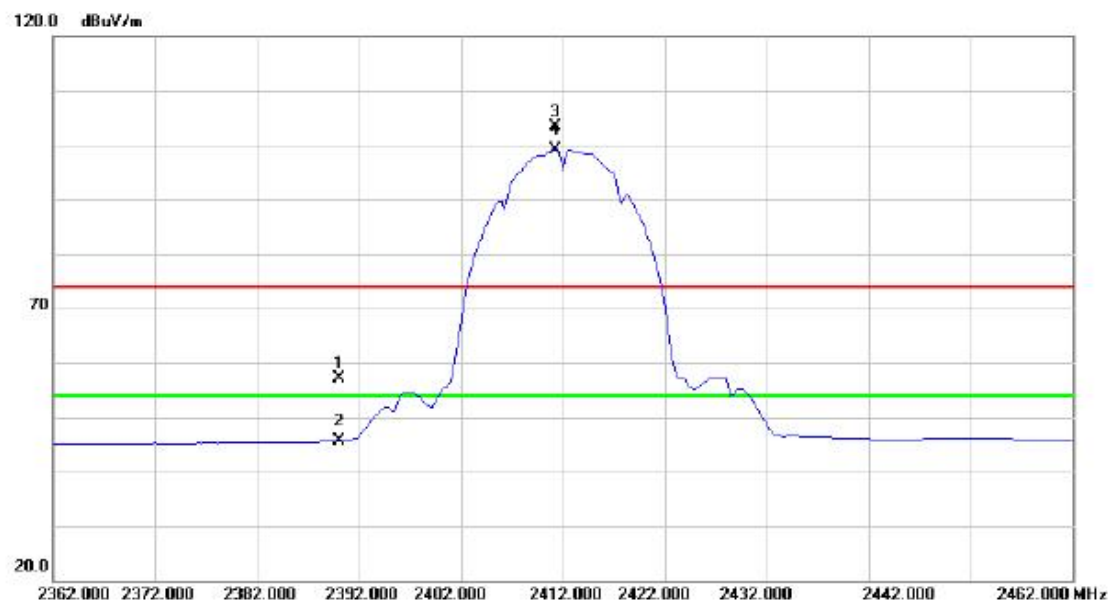


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	46.9750	43.22	-13.88	29.34	40.00	-10.66	peak	
2		85.7750	45.10	-19.62	25.48	40.00	-14.52	peak	
3		114.8750	43.36	-17.05	26.31	43.50	-17.19	peak	
4		255.5250	41.07	-15.11	25.96	46.00	-20.04	peak	
5		401.0250	34.02	-11.38	22.64	46.00	-23.36	peak	
6		975.7500	29.17	-1.77	27.40	54.00	-26.60	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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		2390.000	25.15	31.93	57.08	74.00	-16.92	peak	
2		2390.000	13.68	31.93	45.61	54.00	-8.39	AVG	
3	X	2411.250	71.44	31.94	103.38	74.00	29.38	peak	NO LIMIT
4	*	2411.250	67.23	31.94	99.17	54.00	45.17	AVG	NO LIMIT

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

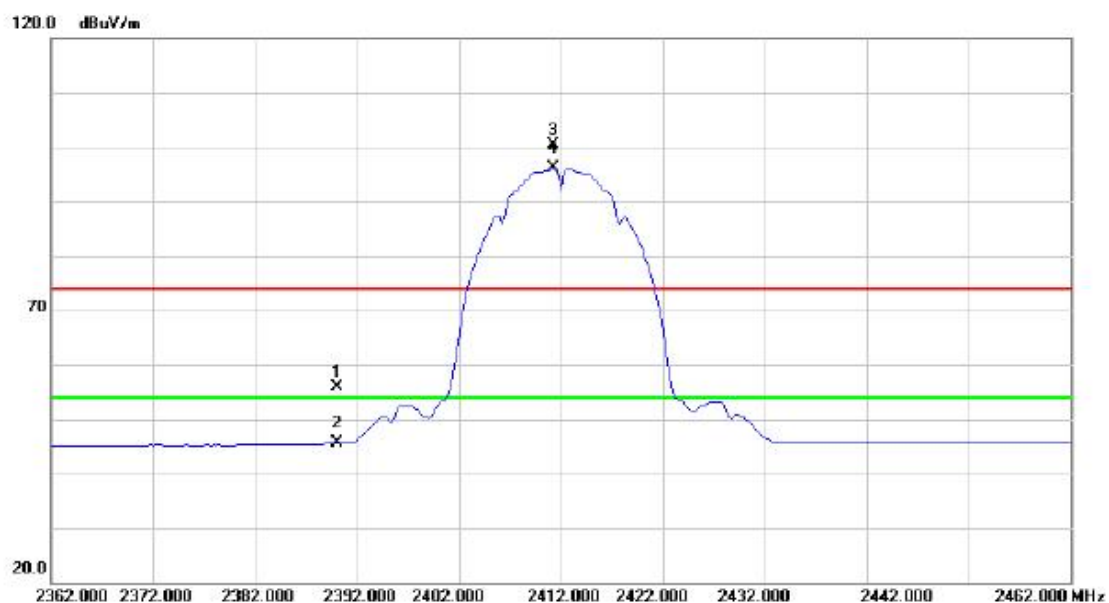
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.125	48.39	7.26	55.65	74.00	-18.35	peak	
2	*	4824.125	44.24	7.26	51.50	54.00	-2.50	AVG	
3		7237.225	42.10	15.70	57.80	74.00	-16.20	peak	
4		7237.225	30.55	15.70	46.25	54.00	-7.75	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		2390.000	23.99	31.93	55.92	74.00	-18.08	peak	
2		2390.000	13.59	31.93	45.52	54.00	-8.48	AVG	
3	X	2411.250	68.35	31.94	100.29	74.00	26.29	peak	NO LIMIT
4	*	2411.250	64.28	31.94	96.22	54.00	42.22	AVG	NO LIMIT

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

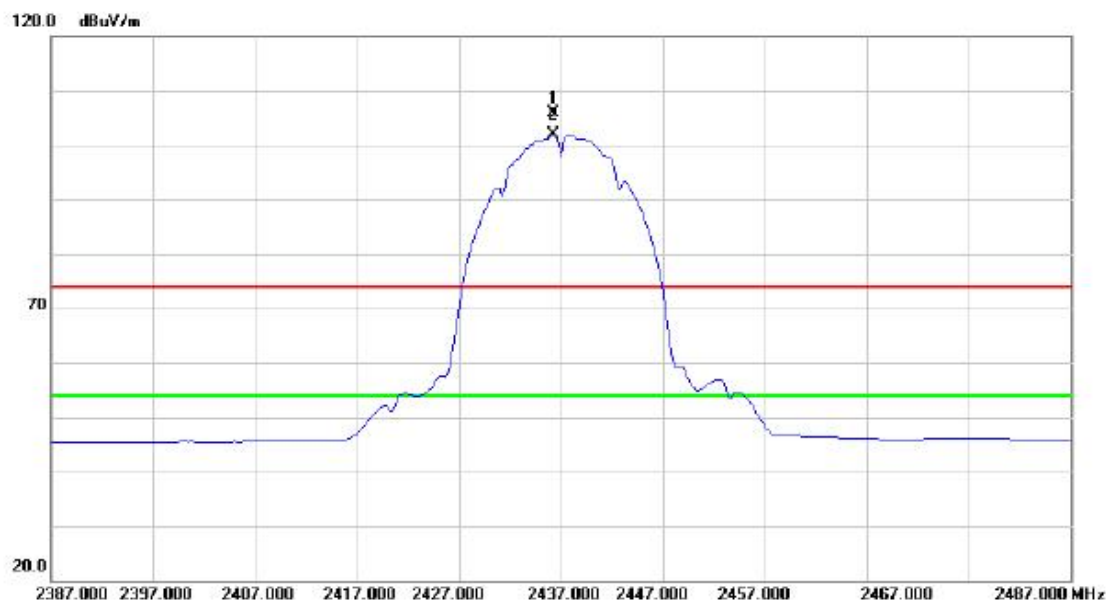
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.975	46.79	7.26	54.05	74.00	-19.95	peak	
2	*	4823.975	42.13	7.26	49.39	54.00	-4.61	AVG	
3		7231.875	42.21	15.68	57.89	74.00	-16.11	peak	
4		7231.875	30.54	15.68	46.22	54.00	-7.78	AVG	

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	2436.250	73.97	31.97	105.94	74.00	31.94	peak	NO LIMIT
2	*	2436.250	69.84	31.97	101.81	54.00	47.81	AVG	NO LIMIT

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

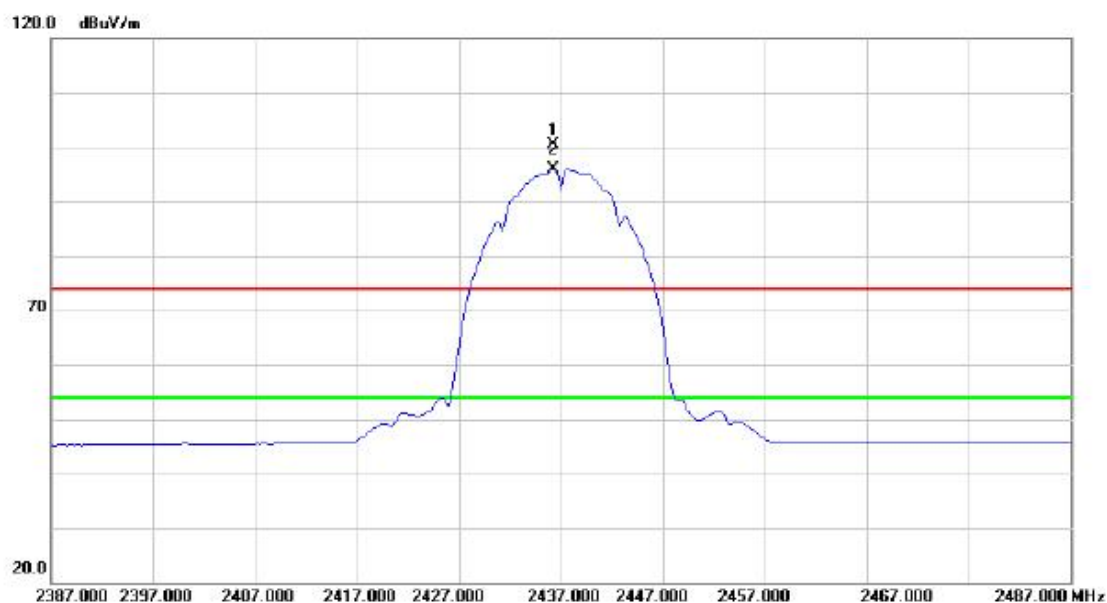
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.100	48.27	7.25	55.52	74.00	-18.48	peak	
2	*	4874.100	42.89	7.25	50.14	54.00	-3.86	AVG	
3		7311.475	42.85	15.95	58.80	74.00	-15.20	peak	
4		7311.475	30.10	15.95	46.05	54.00	-7.95	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	X	2436.250	68.50	31.97	100.47	74.00	26.47	peak	NO LIMIT
2	*	2436.250	63.90	31.97	95.87	54.00	41.87	AVG	NO LIMIT

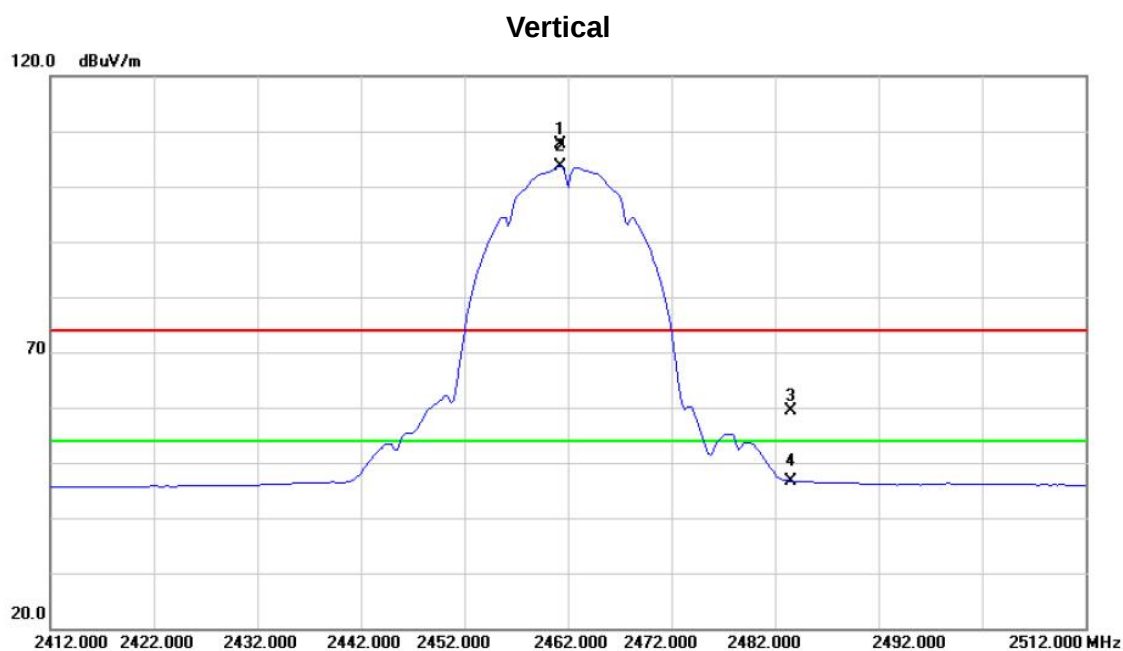
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.012	45.87	7.25	53.12	74.00	-20.88	peak	
2		4874.012	38.23	7.25	45.48	54.00	-8.52	AVG	
3		7311.762	43.31	15.95	59.26	74.00	-14.74	peak	
4	*	7311.762	30.15	15.95	46.10	54.00	-7.90	AVG	

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.250	75.60	31.99	107.59	74.00	33.59	peak	NO LIMIT
2	*	2461.250	71.60	31.99	103.59	54.00	49.59	AVG	NO LIMIT
3		2483.500	27.42	32.01	59.43	74.00	-14.57	peak	
4		2483.500	14.61	32.01	46.62	54.00	-7.38	AVG	

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

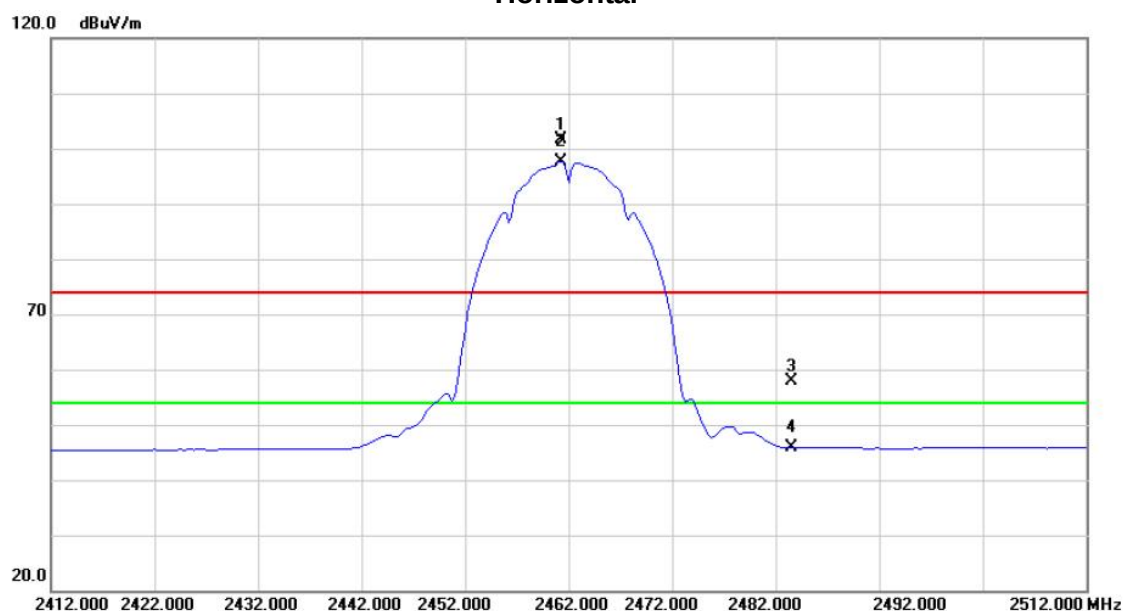
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.038	48.06	7.23	55.29	74.00	-18.71	peak	
2	*	4924.038	43.81	7.23	51.04	54.00	-2.96	AVG	
3		7385.587	41.54	16.22	57.76	74.00	-16.24	peak	
4		7385.587	29.91	16.22	46.13	54.00	-7.87	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	X	2461.250	69.64	31.99	101.63	74.00	27.63	peak	NO LIMIT
2	*	2461.250	65.59	31.99	97.58	54.00	43.58	AVG	NO LIMIT
3		2483.500	25.96	32.01	57.97	74.00	-16.03	peak	
4		2483.500	13.86	32.01	45.87	54.00	-8.13	AVG	

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

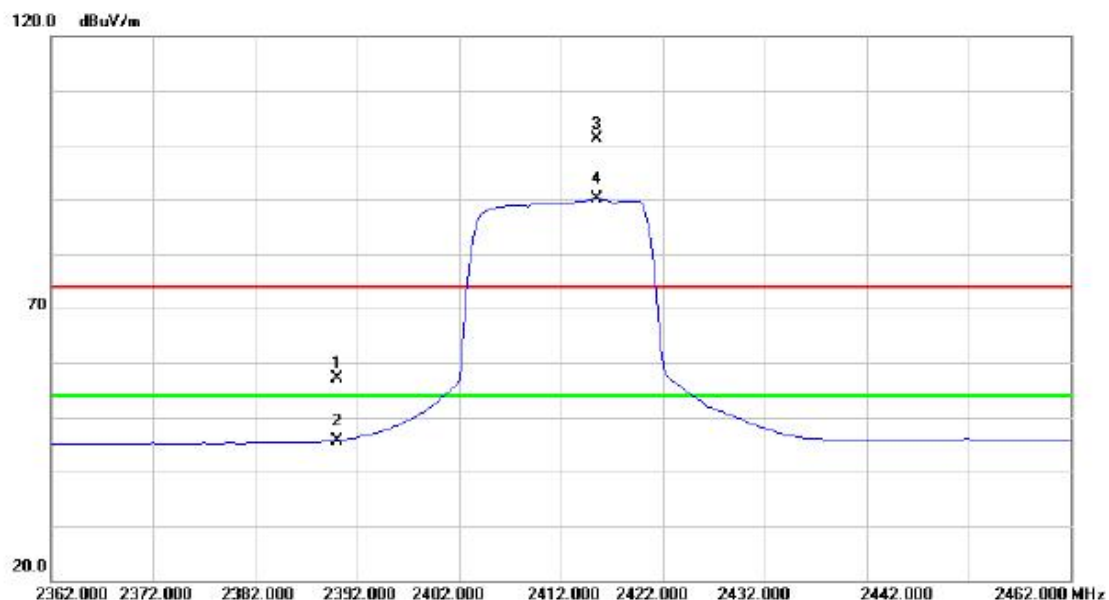
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		4923.950	45.64	7.23	52.87	74.00	-21.13	peak	
2	*	4923.950	39.33	7.23	46.56	54.00	-7.44	AVG	
3		7386.825	41.62	16.22	57.84	74.00	-16.16	peak	
4		7386.825	29.91	16.22	46.13	54.00	-7.87	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		2390.000	25.30	31.93	57.23	74.00	-16.77	peak	
2		2390.000	13.76	31.93	45.69	54.00	-8.31	AVG	
3	X	2415.500	69.14	31.94	101.08	74.00	27.08	peak	NO LIMIT
4	*	2415.500	58.14	31.94	90.08	54.00	36.08	AVG	NO LIMIT

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

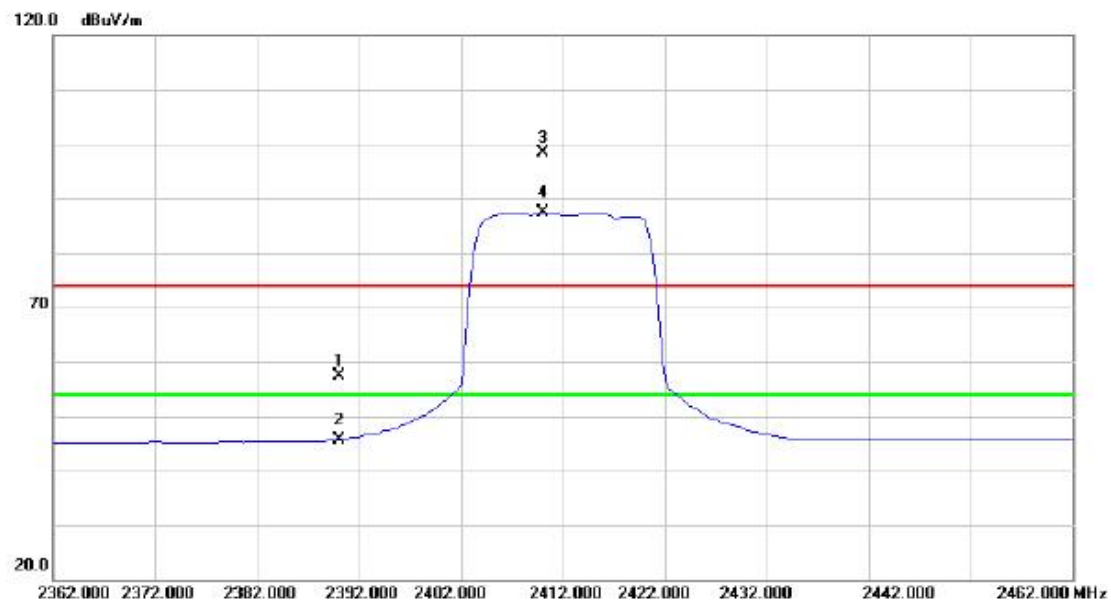
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	47.44	7.26	54.70	74.00	-19.30	peak	
2	*	4824.000	41.56	7.26	48.82	54.00	-5.18	AVG	
3		7234.512	43.81	15.69	59.50	74.00	-14.50	peak	
4		7234.512	30.36	15.69	46.05	54.00	-7.95	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		2390.000	25.55	31.93	57.48	74.00	-16.52	peak	
2		2390.000	13.77	31.93	45.70	54.00	-8.30	AVG	
3	X	2410.000	66.35	31.94	98.29	74.00	24.29	peak	NO LIMIT
4	*	2410.000	55.41	31.94	87.35	54.00	33.35	AVG	NO LIMIT

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

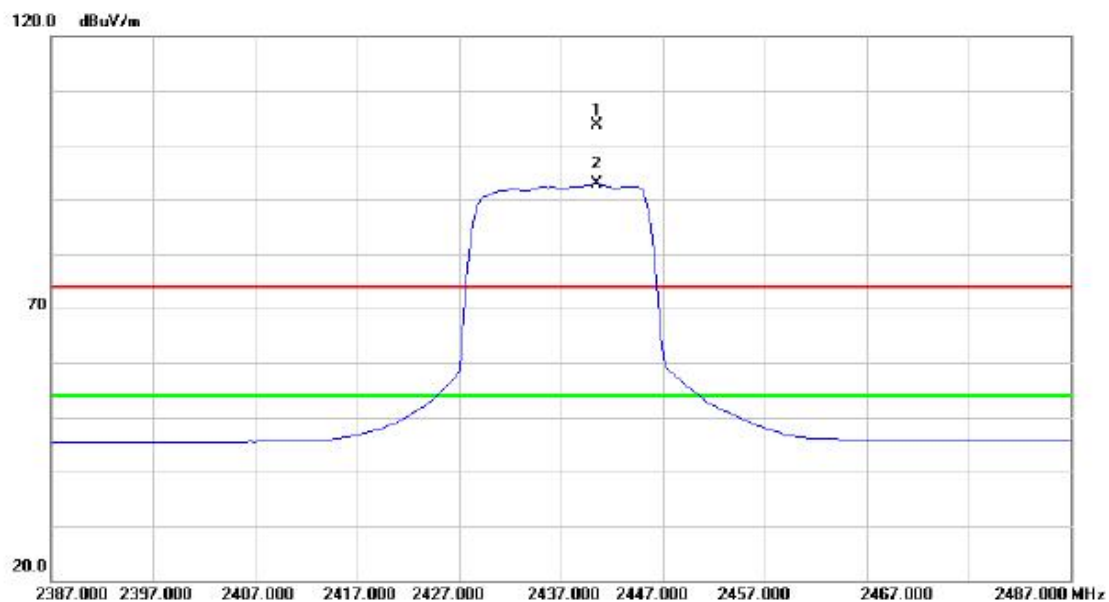
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.063	45.99	7.26	53.25	74.00	-20.75	peak	
2		4824.063	37.43	7.26	44.69	54.00	-9.31	AVG	
3		7229.850	42.44	15.67	58.11	74.00	-15.89	peak	
4	*	7229.850	30.54	15.67	46.21	54.00	-7.79	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	X	2440.500	71.77	31.96	103.73	74.00	29.73	peak	NO LIMIT
2	*	2440.500	60.85	31.96	92.81	54.00	38.81	AVG	NO LIMIT

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

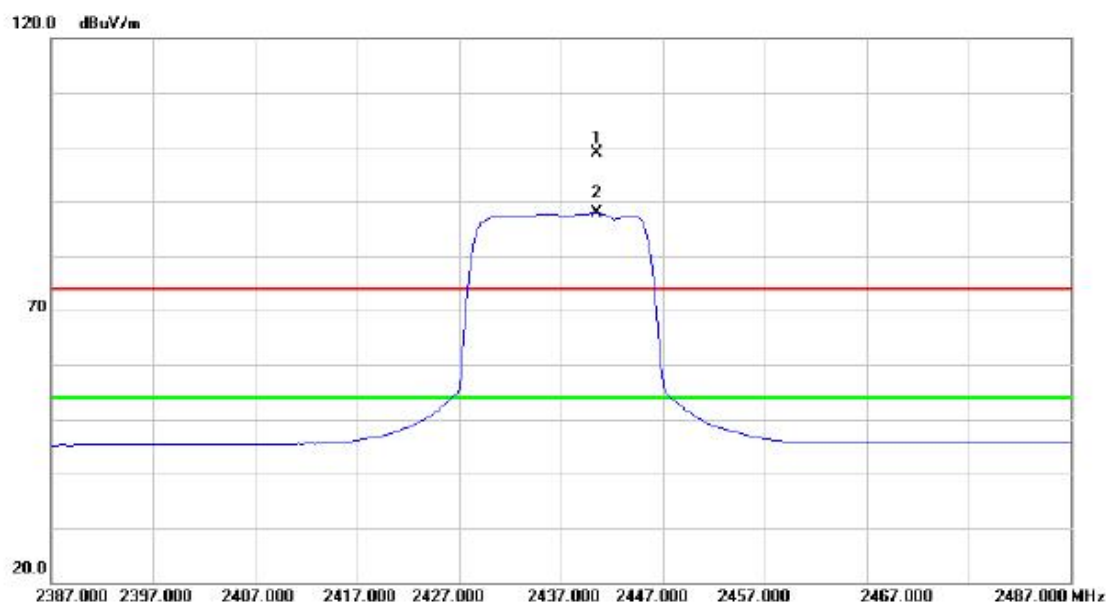
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.025	47.49	7.25	54.74	74.00	-19.26	peak	
2	*	4874.025	42.45	7.25	49.70	54.00	-4.30	AVG	
3		7309.675	43.90	15.95	59.85	74.00	-14.15	peak	
4		7309.675	30.05	15.95	46.00	54.00	-8.00	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	X	2440.500	66.81	31.96	98.77	74.00	24.77	peak	NO LIMIT
2	*	2440.500	55.87	31.96	87.83	54.00	33.83	AVG	NO LIMIT

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

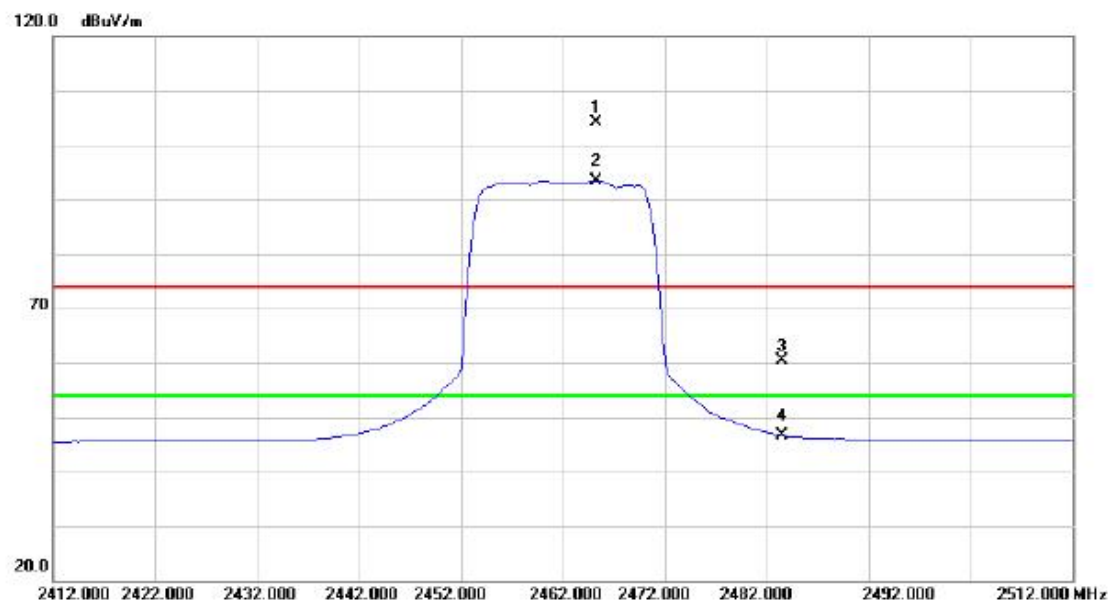
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.063	44.95	7.25	52.20	74.00	-21.80	peak	
2		4874.063	37.74	7.25	44.99	54.00	-9.01	AVG	
3		7309.587	42.68	15.95	58.63	74.00	-15.37	peak	
4	*	7309.587	30.05	15.95	46.00	54.00	-8.00	AVG	

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

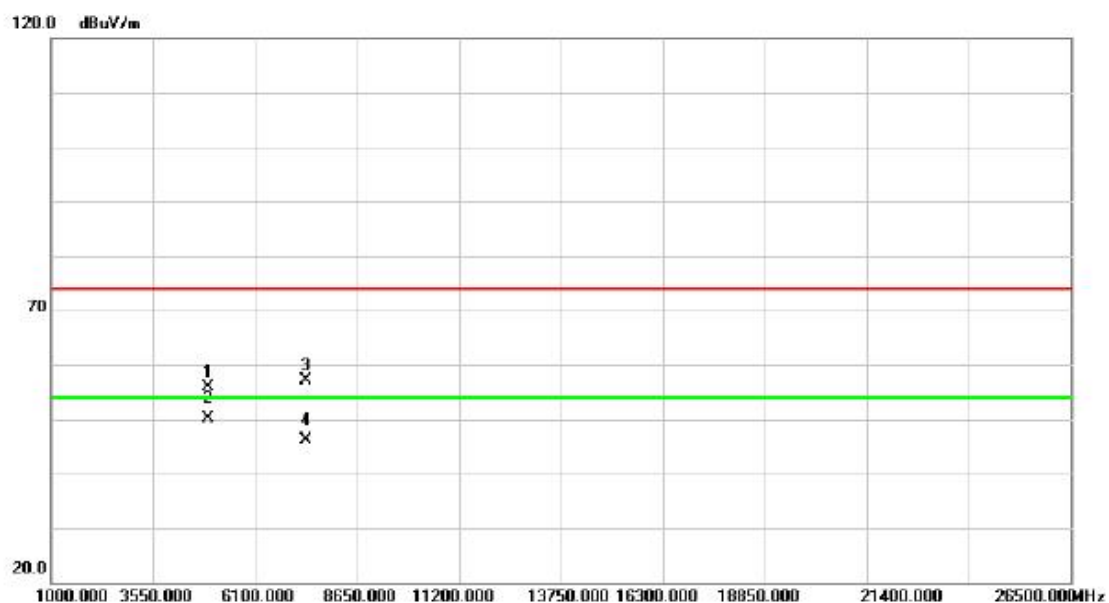
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2465.250	72.23	31.98	104.21	74.00	30.21	peak	NO LIMIT
2	*	2465.250	61.41	31.98	93.39	54.00	39.39	AVG	NO LIMIT
3		2483.500	28.30	32.01	60.31	74.00	-13.69	peak	
4		2483.500	14.61	32.01	46.62	54.00	-7.38	AVG	

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

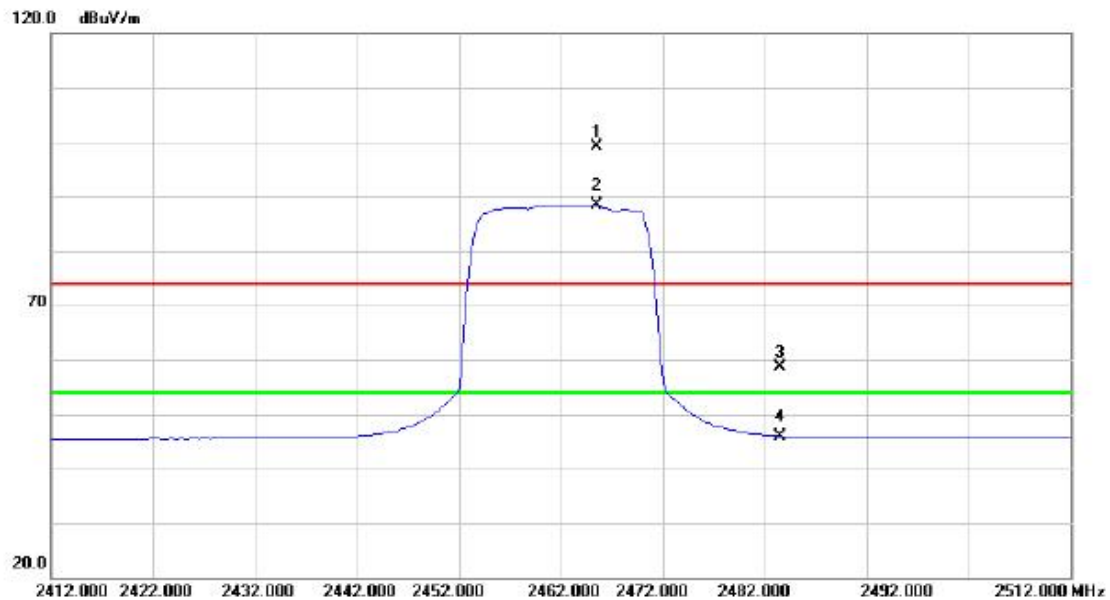
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.063	48.59	7.23	55.82	74.00	-18.18	peak	
2	*	4924.063	42.91	7.23	50.14	54.00	-3.86	AVG	
3		7385.313	40.88	16.22	57.10	74.00	-16.90	peak	
4		7385.313	29.98	16.22	46.20	54.00	-7.80	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	X	2465.500	67.14	31.98	99.12	74.00	25.12	peak	NO LIMIT
2	*	2465.500	56.34	31.98	88.32	54.00	34.32	AVG	NO LIMIT
3		2483.500	26.50	32.01	58.51	74.00	-15.49	peak	
4		2483.500	13.96	32.01	45.97	54.00	-8.03	AVG	

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

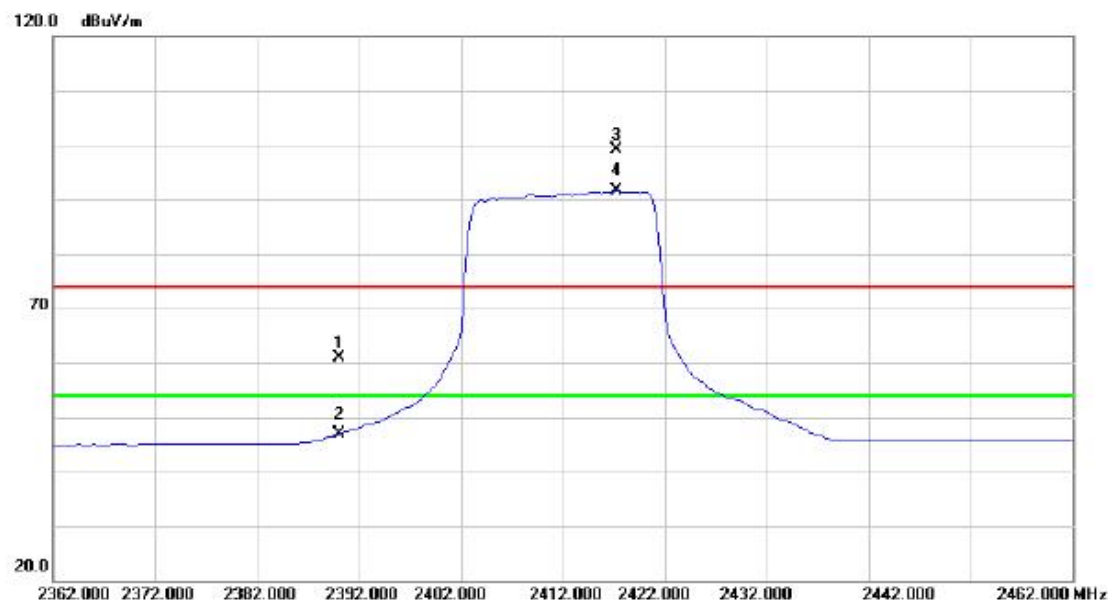
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.038	45.71	7.23	52.94	74.00	-21.06	peak	
2		4924.038	38.52	7.23	45.75	54.00	-8.25	AVG	
3		7384.675	40.72	16.22	56.94	74.00	-17.06	peak	
4	*	7384.675	29.92	16.22	46.14	54.00	-7.86	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		2390.000	28.93	31.93	60.86	74.00	-13.14	peak	
2		2390.000	14.91	31.93	46.84	54.00	-7.16	AVG	
3	X	2417.250	67.10	31.94	99.04	74.00	25.04	peak	NO LIMIT
4	*	2417.250	59.59	31.94	91.53	54.00	37.53	AVG	NO LIMIT

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

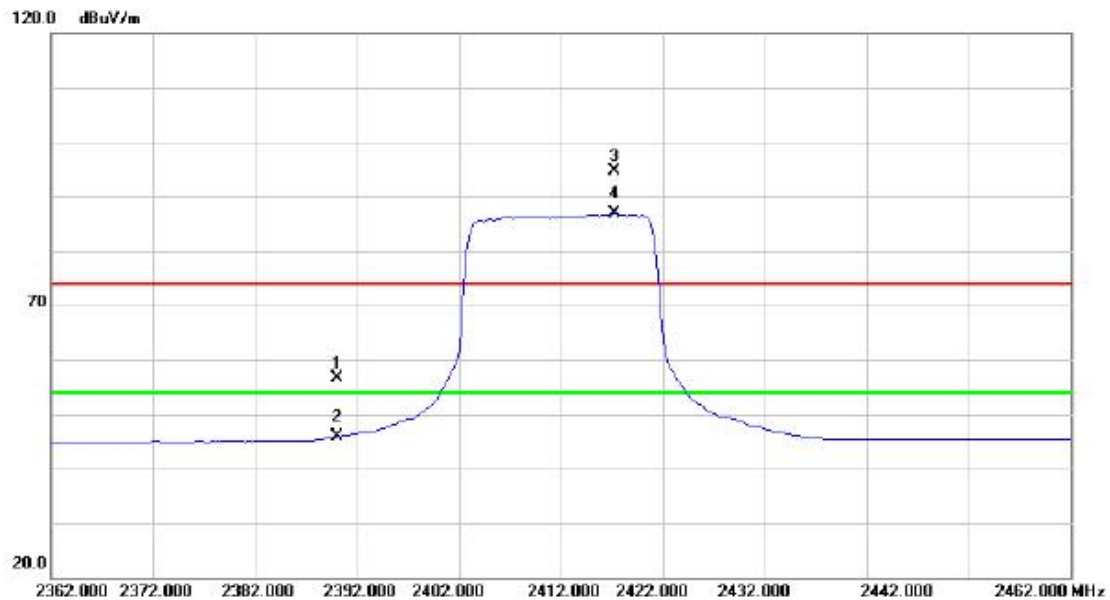
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.988	47.11	7.26	54.37	74.00	-19.63	peak	
2	*	4823.988	42.56	7.26	49.82	54.00	-4.18	AVG	
3		7234.012	42.20	15.69	57.89	74.00	-16.11	peak	
4		7234.012	30.41	15.69	46.10	54.00	-7.90	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		2390.000	24.76	31.93	56.69	74.00	-17.31	peak	
2		2390.000	13.86	31.93	45.79	54.00	-8.21	AVG	
3	X	2417.250	62.65	31.94	94.59	74.00	20.59	peak	NO LIMIT
4	*	2417.250	54.82	31.94	86.76	54.00	32.76	AVG	NO LIMIT

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

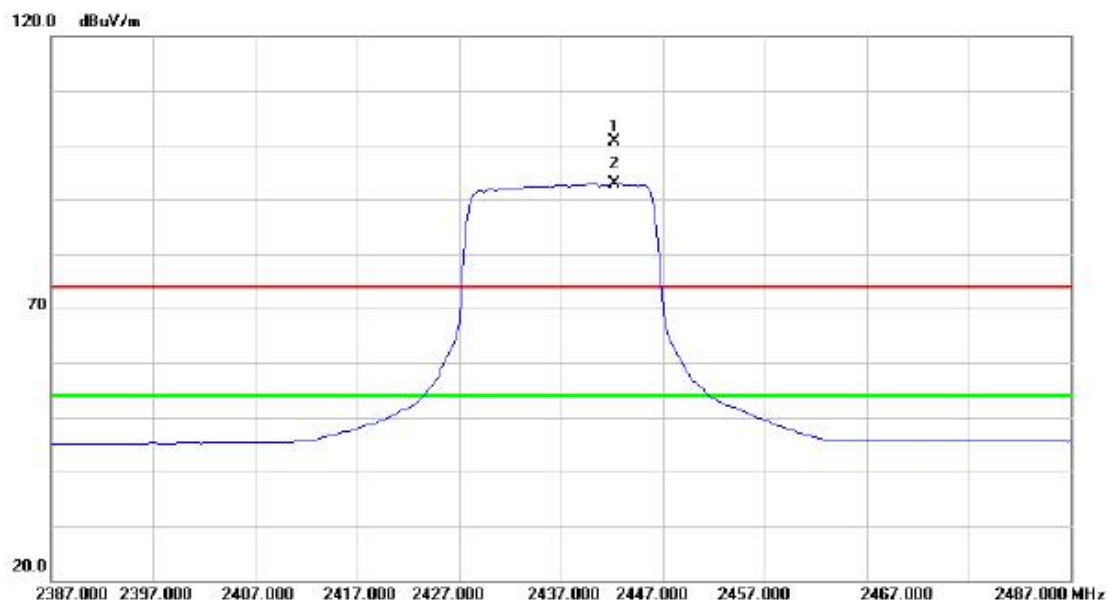
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.975	44.04	7.26	51.30	74.00	-22.70	peak	
2		4823.975	34.12	7.26	41.38	54.00	-12.62	AVG	
3		7237.813	41.89	15.70	57.59	74.00	-16.41	peak	
4	*	7237.813	30.27	15.70	45.97	54.00	-8.03	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M 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	2442.250	68.59	31.96	100.55	74.00	26.55	peak	NO LIMIT
2	*	2442.250	60.91	31.96	92.87	54.00	38.87	AVG	NO LIMIT

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

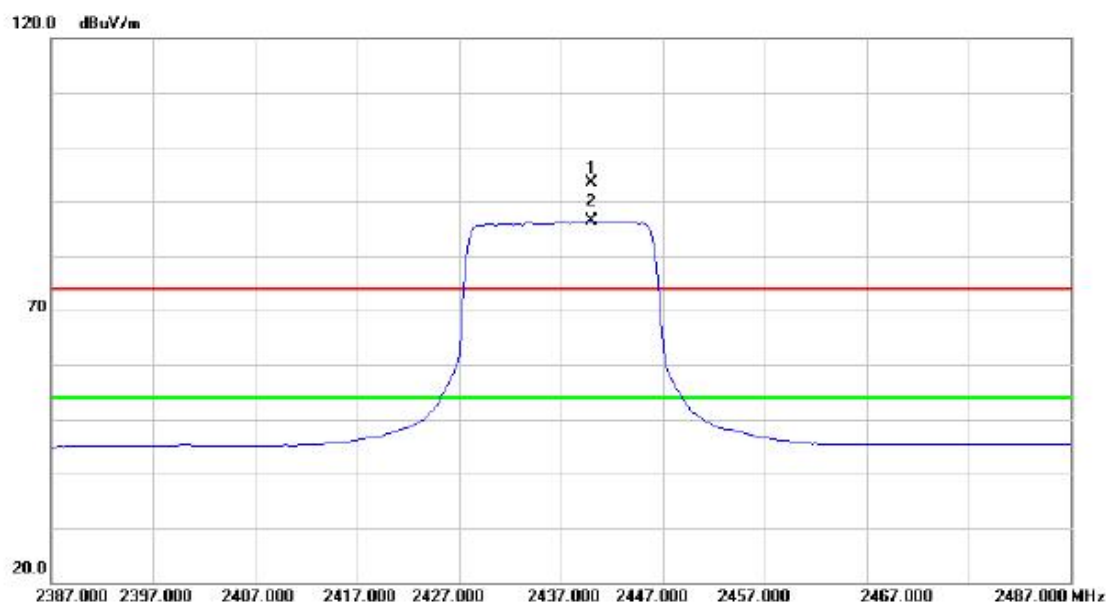
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.025	47.87	7.25	55.12	74.00	-18.88	peak	
2	*	4874.025	43.89	7.25	51.14	54.00	-2.86	AVG	
3		7312.450	42.78	15.96	58.74	74.00	-15.26	peak	
4		7312.450	29.97	15.96	45.93	54.00	-8.07	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	X	2440.000	61.41	31.96	93.37	74.00	19.37	peak	NO LIMIT
2	*	2440.000	54.51	31.96	86.47	54.00	32.47	AVG	NO LIMIT

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

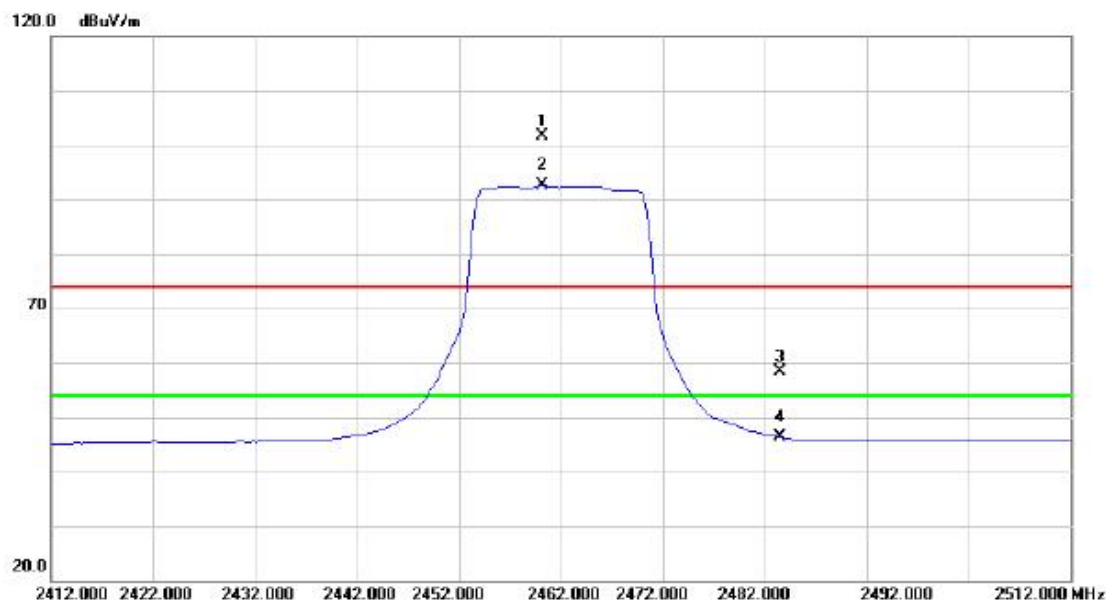
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.050	43.84	7.25	51.09	74.00	-22.91	peak	
2		4874.050	35.56	7.25	42.81	54.00	-11.19	AVG	
3		7310.038	41.81	15.95	57.76	74.00	-16.24	peak	
4	*	7310.038	29.98	15.95	45.93	54.00	-8.07	AVG	

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	X	2460.250	69.66	31.99	101.65	74.00	27.65	peak	NO LIMIT
2	*	2460.250	60.53	31.99	92.52	54.00	38.52	AVG	NO LIMIT
3		2483.500	26.42	32.01	58.43	74.00	-15.57	peak	
4		2483.500	14.27	32.01	46.28	54.00	-7.72	AVG	

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

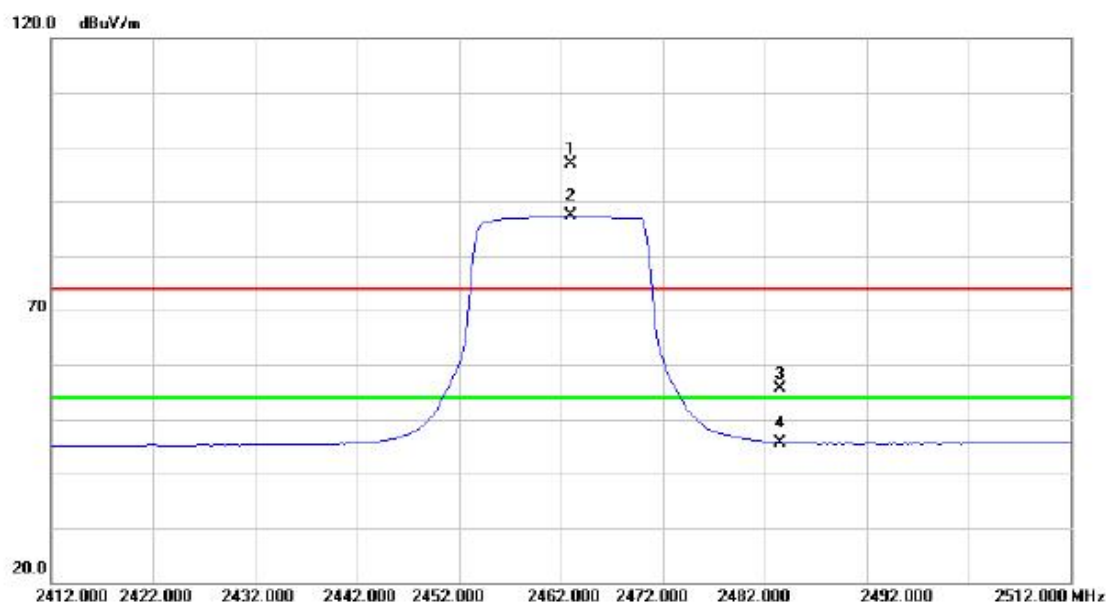
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.125	47.03	7.23	54.26	74.00	-19.74	peak	
2	*	4924.125	43.17	7.23	50.40	54.00	-3.60	AVG	
3		7386.750	41.16	16.22	57.38	74.00	-16.62	peak	
4		7386.750	29.76	16.22	45.98	54.00	-8.02	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	X	2463.000	64.86	31.98	96.84	74.00	22.84	peak	NO LIMIT
2	*	2463.000	55.51	31.98	87.49	54.00	33.49	AVG	NO LIMIT
3		2483.500	23.60	32.01	55.61	74.00	-18.39	peak	
4		2483.500	13.67	32.01	45.68	54.00	-8.32	AVG	

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

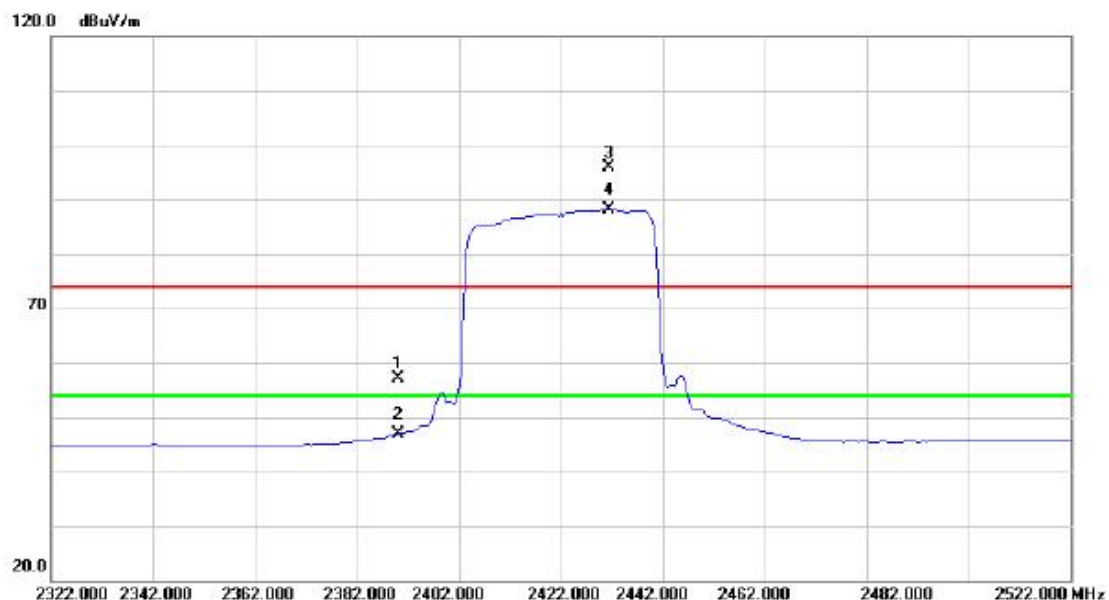
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.975	44.65	7.23	51.88	74.00	-22.12	peak	
2	*	4923.975	39.11	7.23	46.34	54.00	-7.66	AVG	
3		7381.800	40.44	16.20	56.64	74.00	-17.36	peak	
4		7381.800	29.79	16.20	45.99	54.00	-8.01	AVG	

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	25.20	31.93	57.13	74.00	-16.87	peak	
2		2390.000	14.91	31.93	46.84	54.00	-7.16	AVG	
3	X	2431.500	63.84	31.96	95.80	74.00	21.80	peak	NO LIMIT
4	*	2431.500	56.22	31.96	88.18	54.00	34.18	AVG	NO LIMIT

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

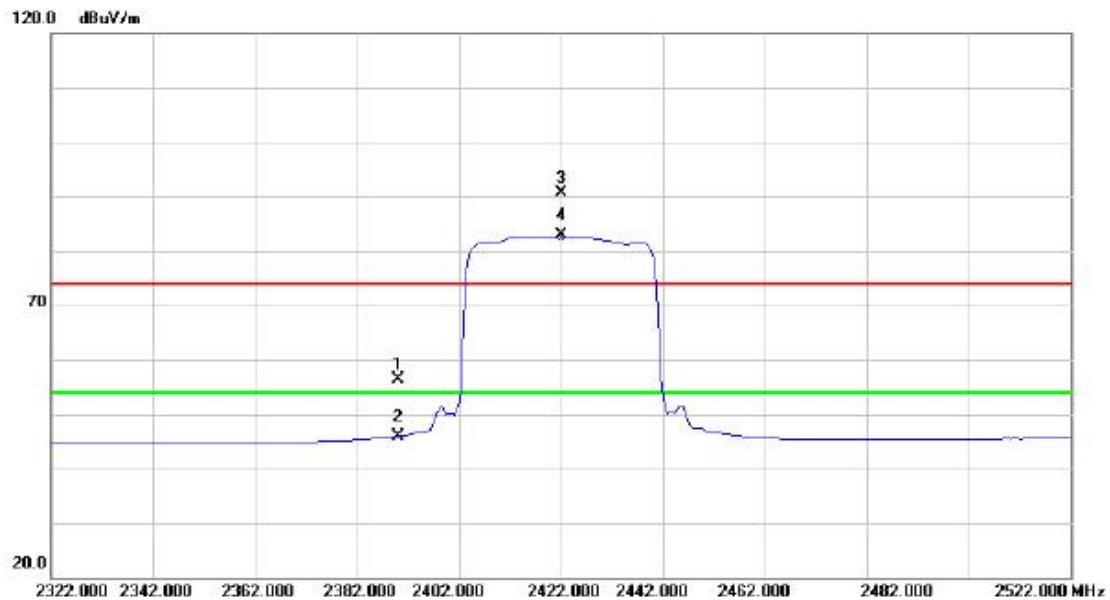
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.125	47.00	7.26	54.26	74.00	-19.74	peak	
2	*	4844.125	42.85	7.26	50.11	54.00	-3.89	AVG	
3		7267.413	42.53	15.81	58.34	74.00	-15.66	peak	
4		7267.413	30.13	15.81	45.94	54.00	-8.06	AVG	

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	24.48	31.93	56.41	74.00	-17.59	peak	
2		2390.000	14.01	31.93	45.94	54.00	-8.06	AVG	
3	X	2422.000	58.68	31.95	90.63	74.00	16.63	peak	NO LIMIT
4	*	2422.000	51.05	31.95	83.00	54.00	29.00	AVG	NO LIMIT

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

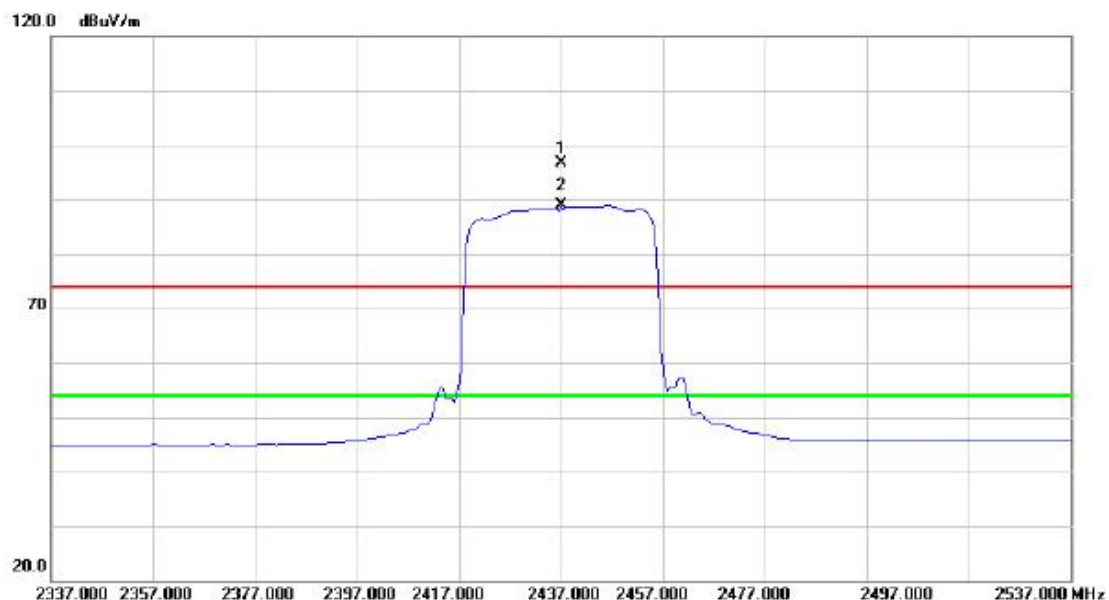
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		4843.988	43.63	7.26	50.89	74.00	-23.11	peak	
2		4843.988	36.65	7.26	43.91	54.00	-10.09	AVG	
3		7264.012	42.12	15.80	57.92	74.00	-16.08	peak	
4	*	7264.012	30.16	15.80	45.96	54.00	-8.04	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M 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	2437.000	64.55	31.97	96.52	74.00	22.52	peak	NO LIMIT
2	*	2437.000	56.86	31.97	88.83	54.00	34.83	AVG	NO LIMIT

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

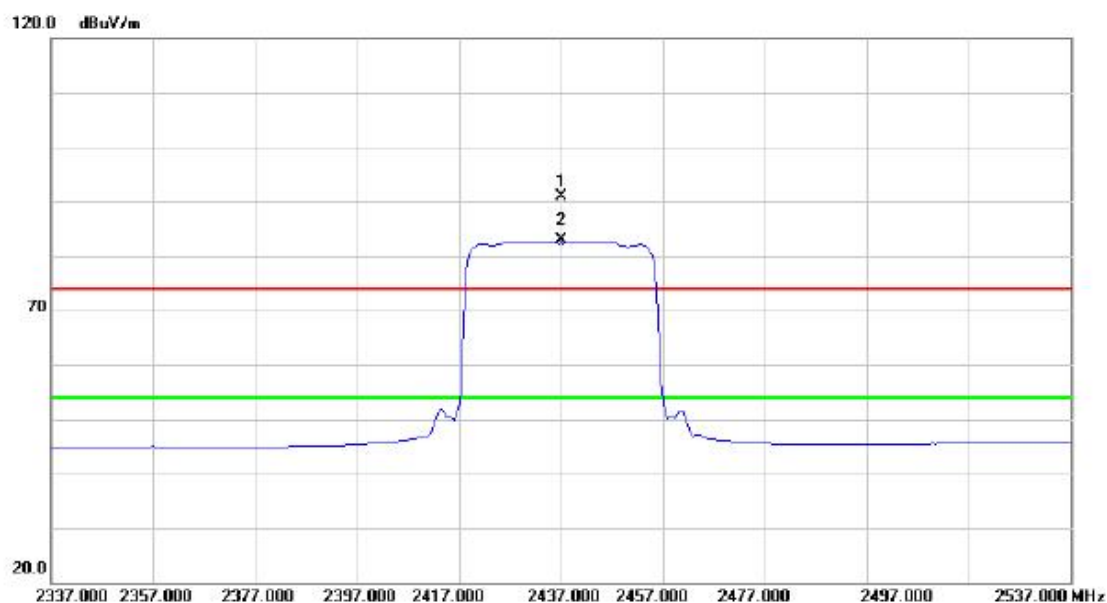
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.025	47.88	7.25	55.13	74.00	-18.87	peak	
2	*	4874.025	43.94	7.25	51.19	54.00	-2.81	AVG	
3		7312.275	42.29	15.96	58.25	74.00	-15.75	peak	
4		7312.275	29.85	15.96	45.81	54.00	-8.19	AVG	

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	2437.000	58.87	31.97	90.84	74.00	16.84	peak	NO LIMIT
2	*	2437.000	50.92	31.97	82.89	54.00	28.89	AVG	NO LIMIT

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

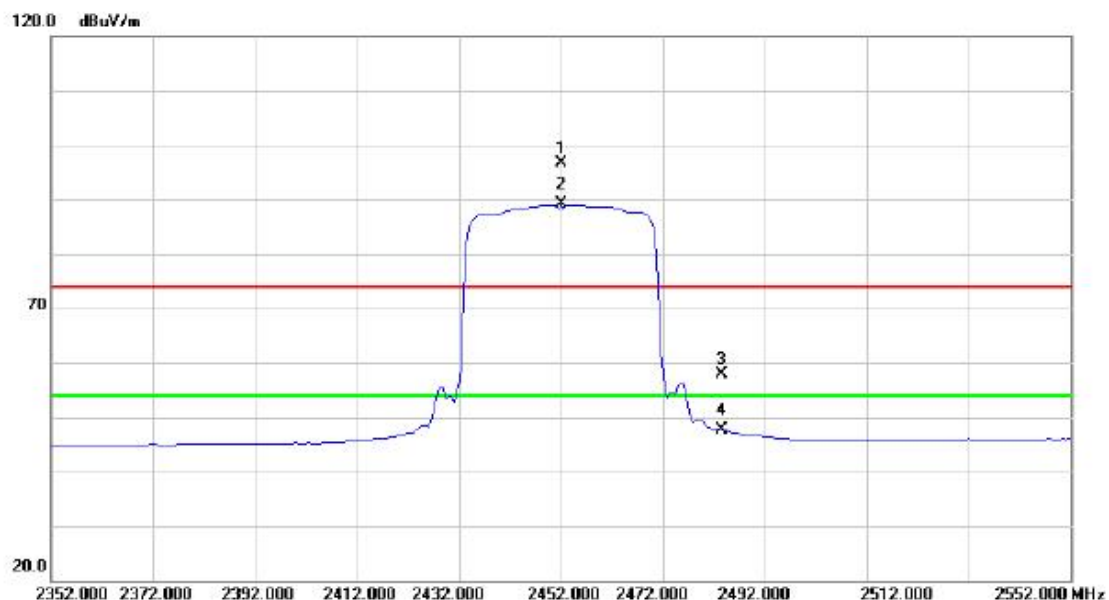
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.025	44.53	7.25	51.78	74.00	-22.22	peak	
2		4874.025	37.63	7.25	44.88	54.00	-9.12	AVG	
3		7310.813	41.09	15.95	57.04	74.00	-16.96	peak	
4	*	7310.813	29.89	15.95	45.84	54.00	-8.16	AVG	

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	2452.000	64.77	31.98	96.75	74.00	22.75	peak	NO LIMIT
2	*	2452.000	57.26	31.98	89.24	54.00	35.24	AVG	NO LIMIT
3		2483.500	25.98	32.01	57.99	74.00	-16.01	peak	
4		2483.500	15.50	32.01	47.51	54.00	-6.49	AVG	

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

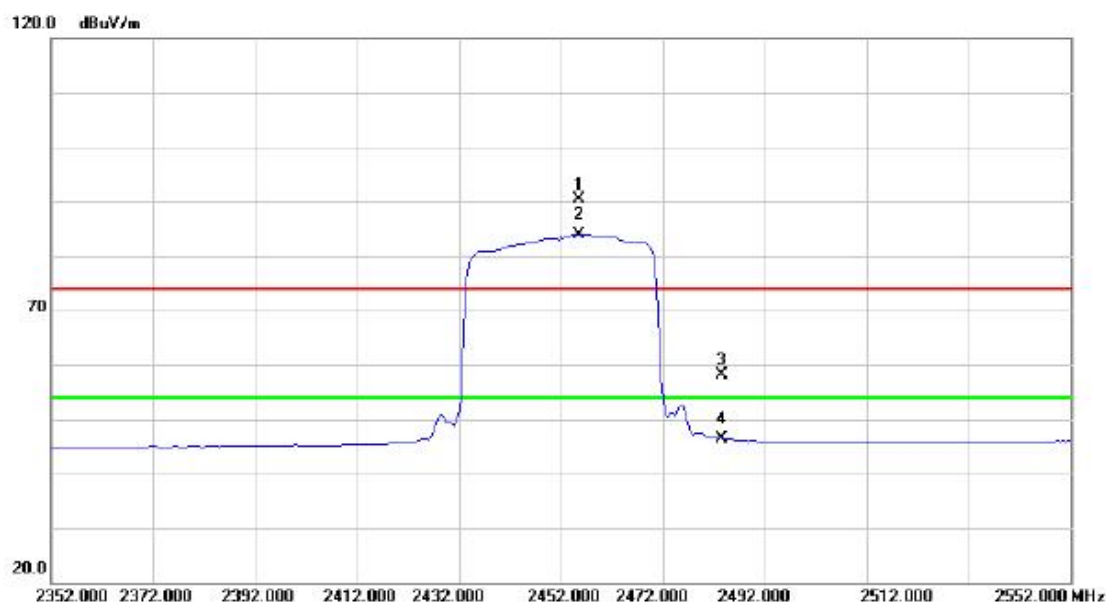
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.125	47.57	7.24	54.81	74.00	-19.19	peak	
2	*	4904.125	43.45	7.24	50.69	54.00	-3.31	AVG	
3		7355.600	41.91	16.12	58.03	74.00	-15.97	peak	
4		7355.600	30.19	16.12	46.31	54.00	-7.69	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	X	2455.500	58.35	31.98	90.33	74.00	16.33	peak	NO LIMIT
2	*	2455.500	51.87	31.98	83.85	54.00	29.85	AVG	NO LIMIT
3		2483.500	26.09	32.01	58.10	74.00	-15.90	peak	
4		2483.500	14.42	32.01	46.43	54.00	-7.57	AVG	

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

Horizontal



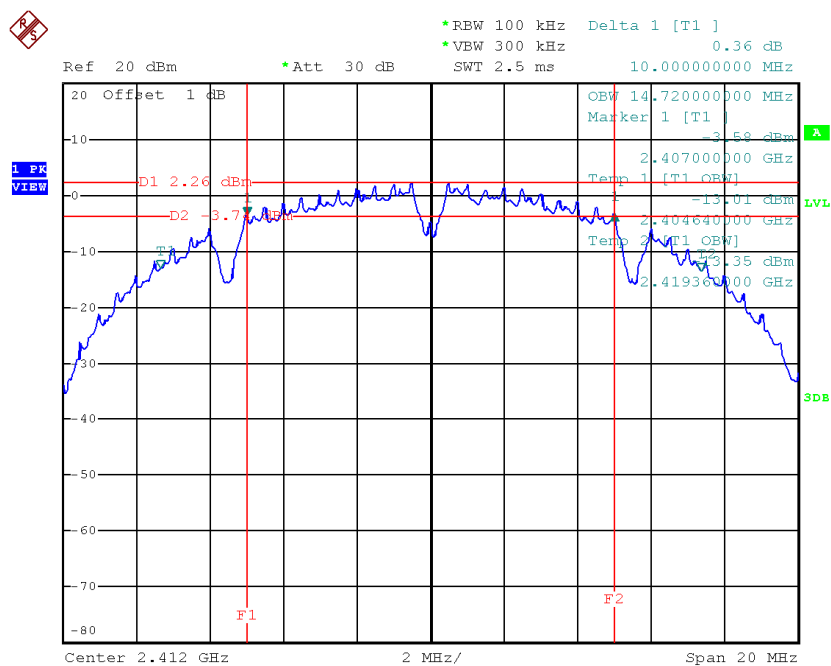
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4903.825	45.11	7.24	52.35	74.00	-21.65	peak	
2		4903.825	38.51	7.24	45.75	54.00	-8.25	AVG	
3		7356.012	42.39	16.12	58.51	74.00	-15.49	peak	
4	*	7356.012	30.20	16.12	46.32	54.00	-7.68	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

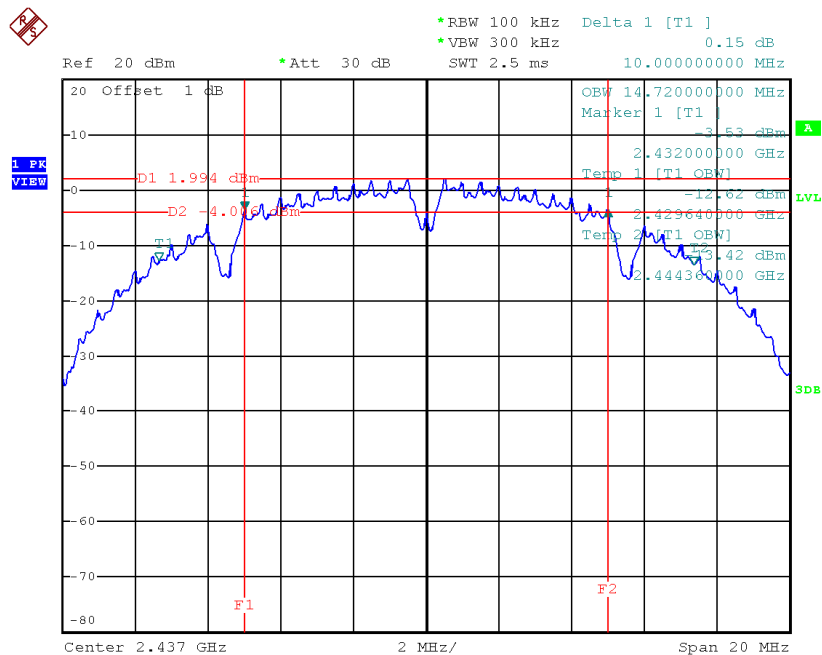
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.00	14.72	500	Complies
2437	10.00	14.72	500	Complies
2462	10.00	14.68	500	Complies

TX CH01



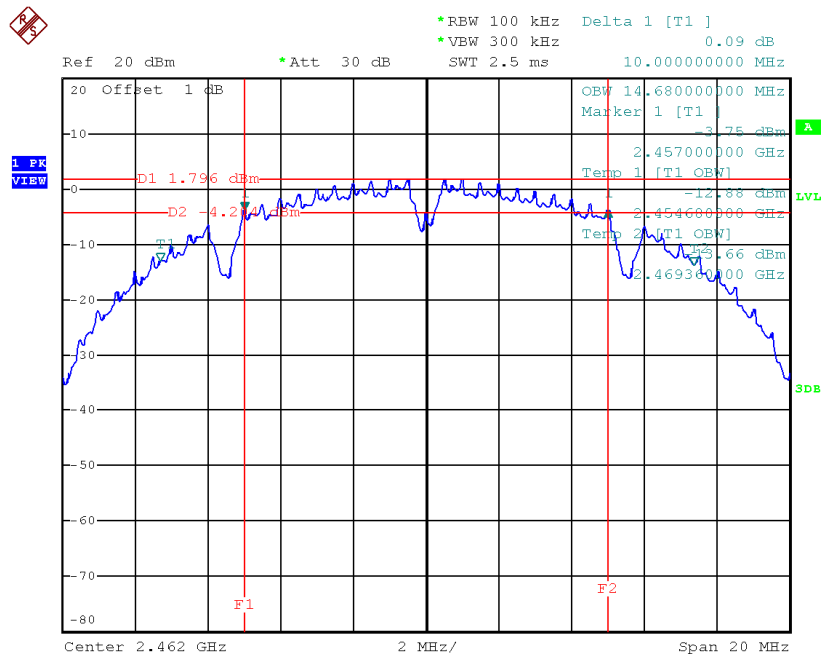
Date: 10.MAR.2015 14:41:34

TX CH06



Date: 10.MAR.2015 14:42:53

TX CH11

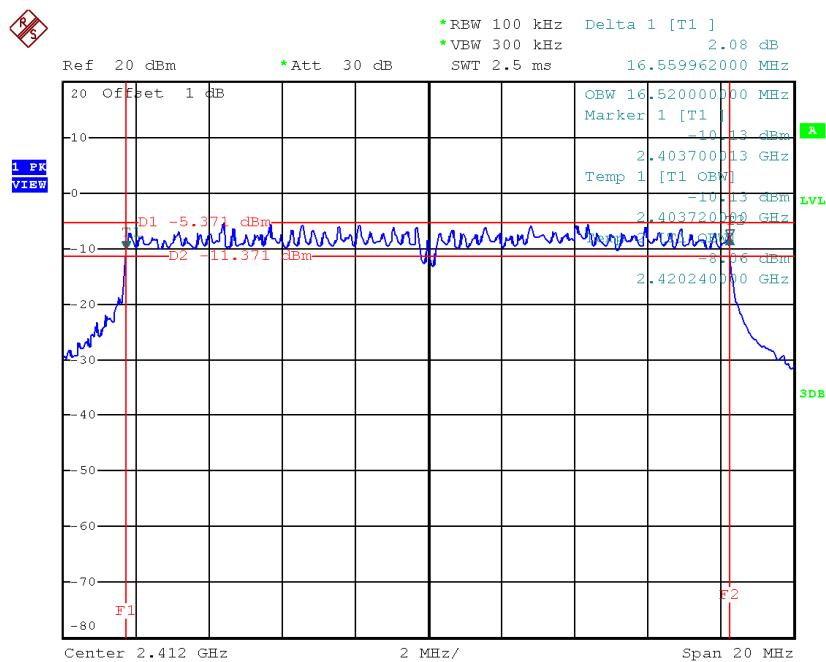


Date: 10.MAR.2015 14:43:32

Test Mode: TX G Mode_CH01/06/11

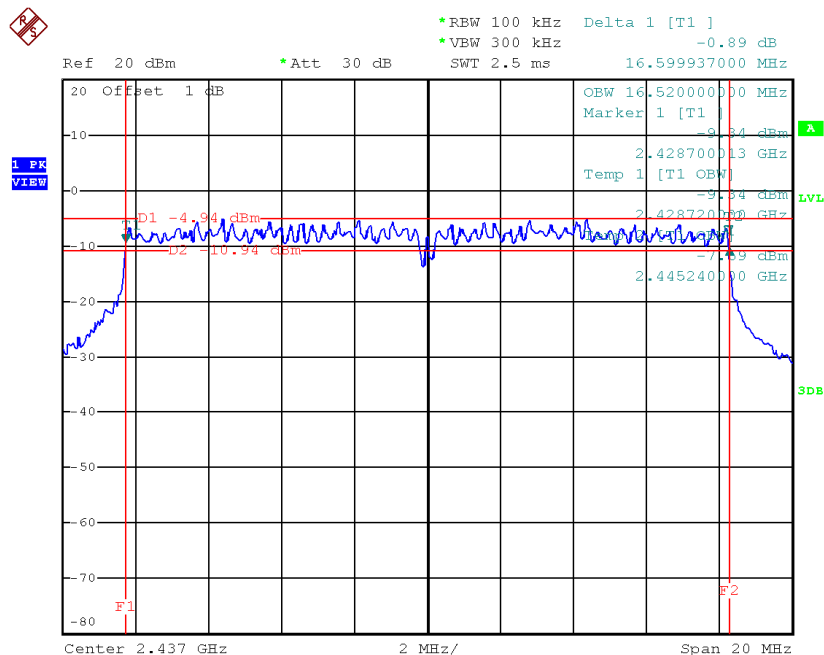
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.56	16.52	500	Complies
2437	16.60	16.52	500	Complies
2462	16.56	16.52	500	Complies

TX CH01



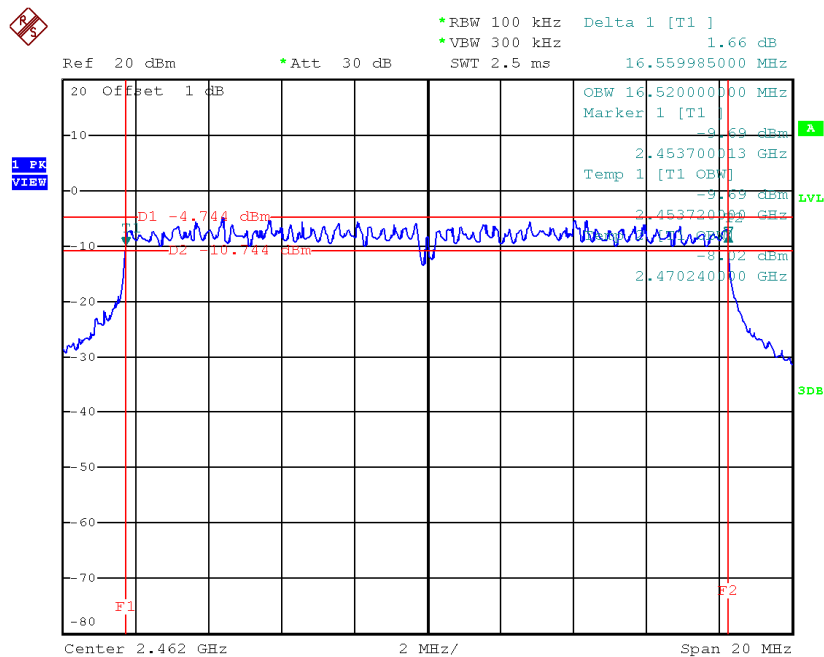
Date: 10.MAR.2015 14:44:47

TX CH06



Date: 10.MAR.2015 14:45:47

TX CH11

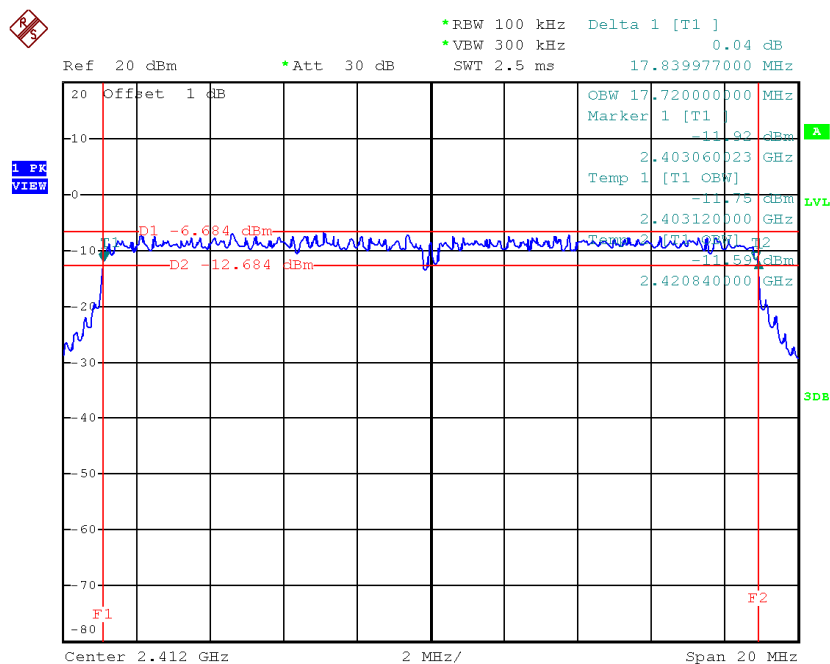


Date: 10.MAR.2015 14:46:25

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

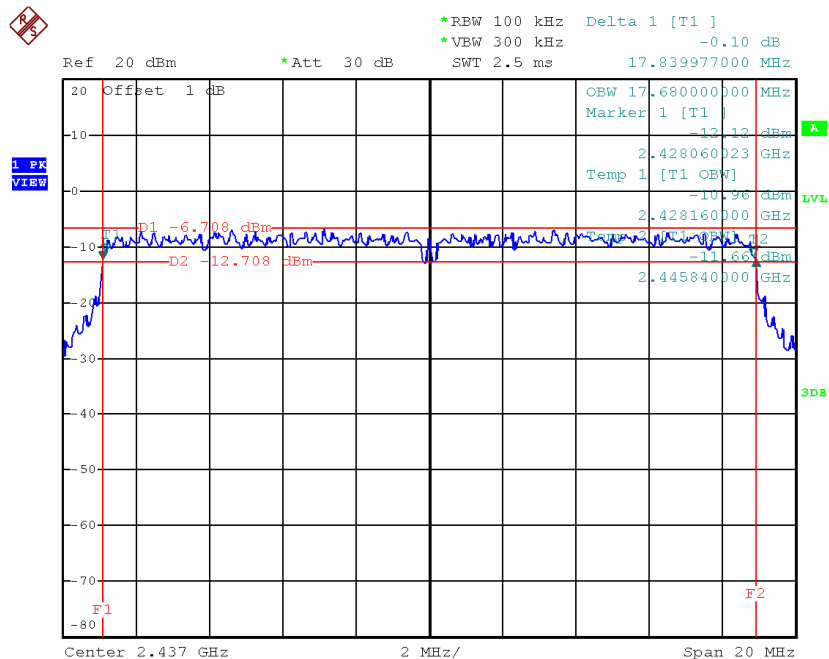
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.84	17.72	500	Complies
2437	17.84	17.68	500	Complies
2462	17.84	17.72	500	Complies

TX CH01



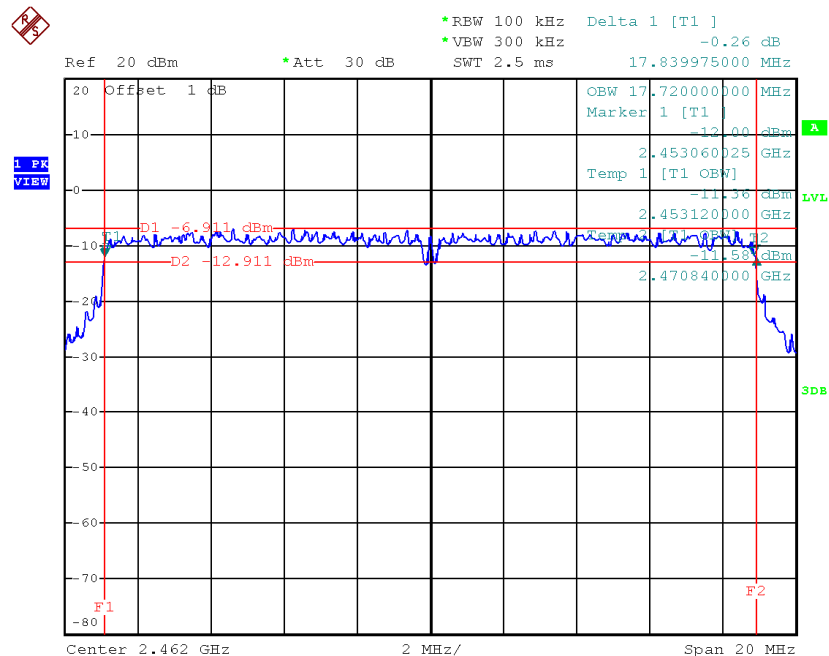
Date: 10.MAR.2015 14:47:25

TX CH06



Date: 10.MAR.2015 14:48:24

TX CH11

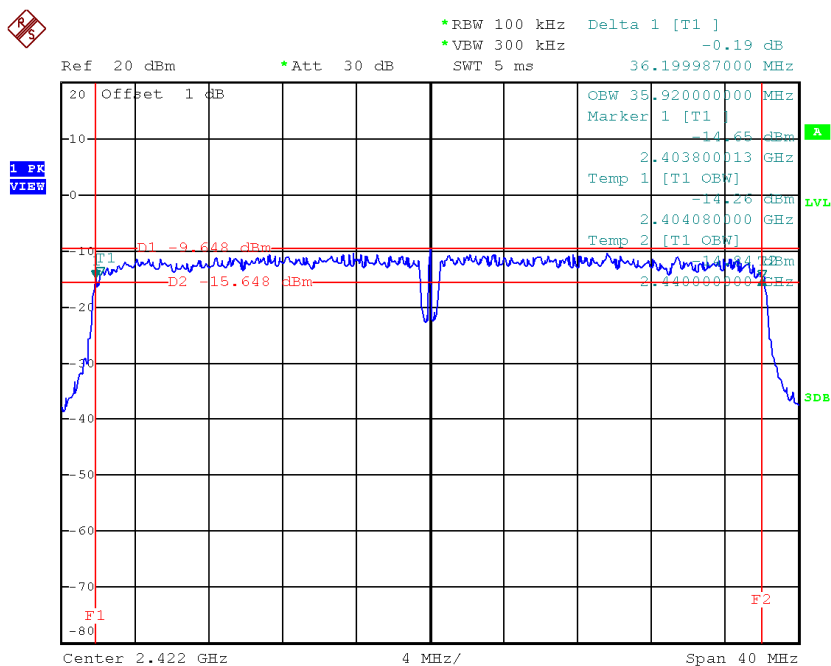


Date: 10.MAR.2015 14:48:59

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

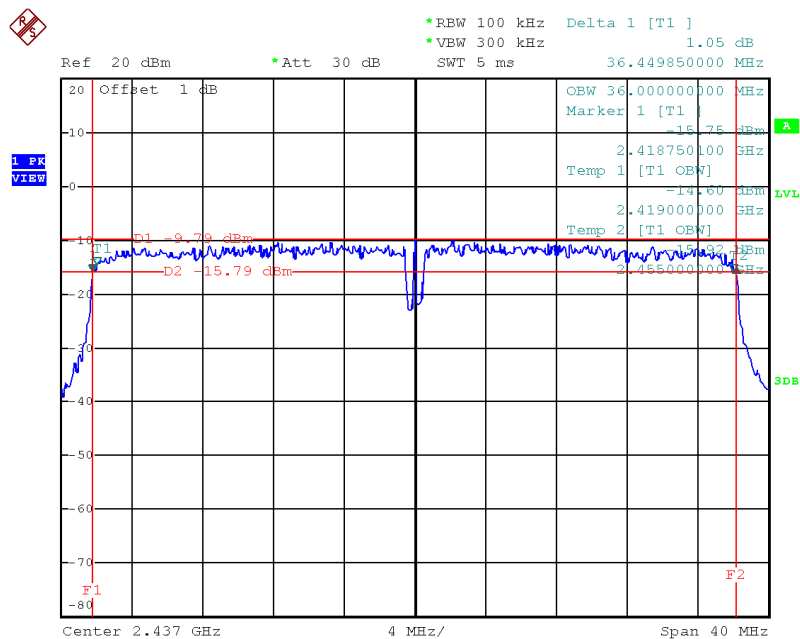
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.20	35.92	500	Complies
2437	36.45	36.00	500	Complies
2452	36.45	36.00	500	Complies

TX CH03



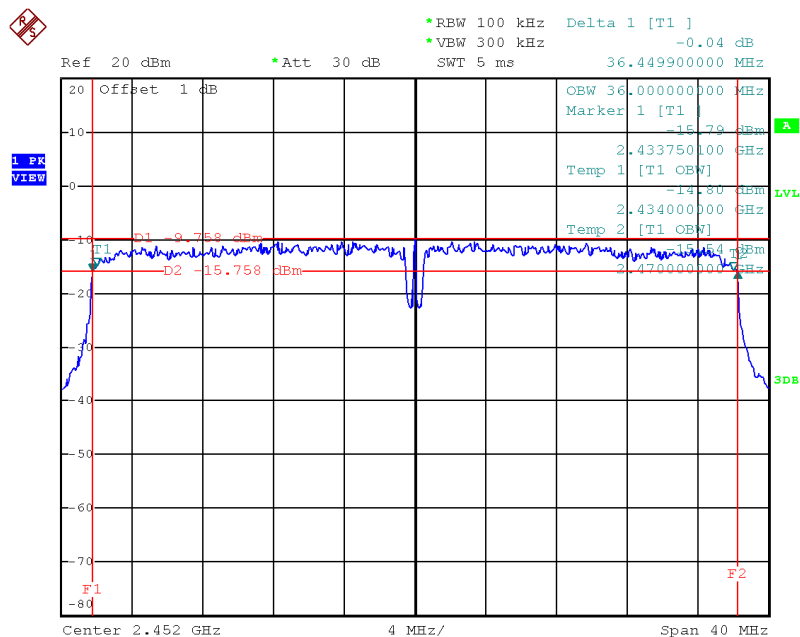
Date: 10.MAR.2015 14:49:56

TX CH06



Date: 10.MAR.2015 14:50:57

TX CH09



Date: 10.MAR.2015 14:51:36

ATTACHMENT F – 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	17.05	0.05	30.00	1.00	Complies
2437	17.58	0.06	30.00	1.00	Complies
2462	17.65	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	19.64	0.09	30.00	1.00	Complies
2437	20.02	0.10	30.00	1.00	Complies
2462	19.78	0.10	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	19.18	0.08	30.00	1.00	Complies
2437	19.76	0.09	30.00	1.00	Complies
2462	19.65	0.09	30.00	1.00	Complies

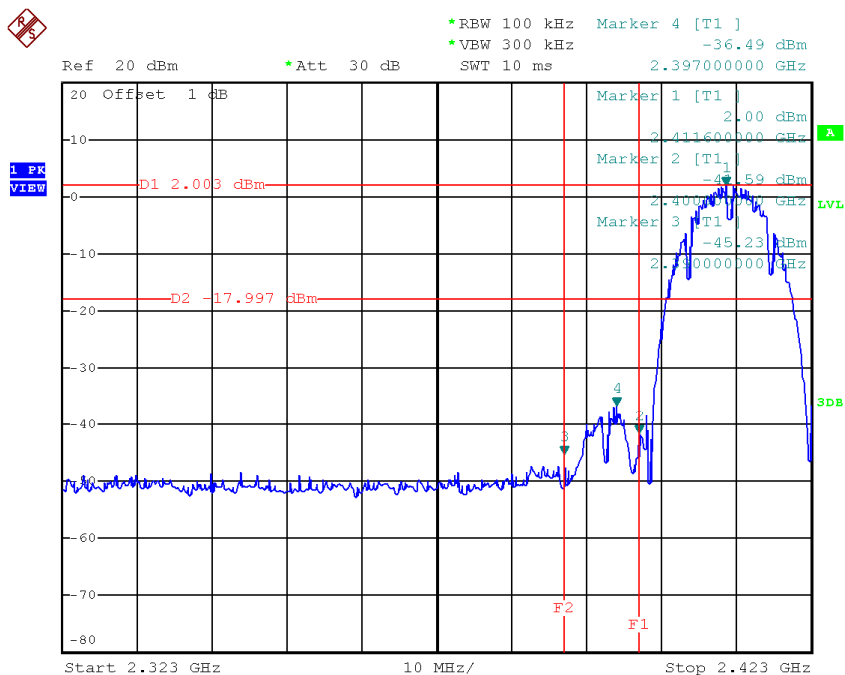
Test Mode :TX N40 Mode_CH03/06/09

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.56	0.07	30.00	1.00	Complies
2437	18.94	0.08	30.00	1.00	Complies
2452	18.93	0.08	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

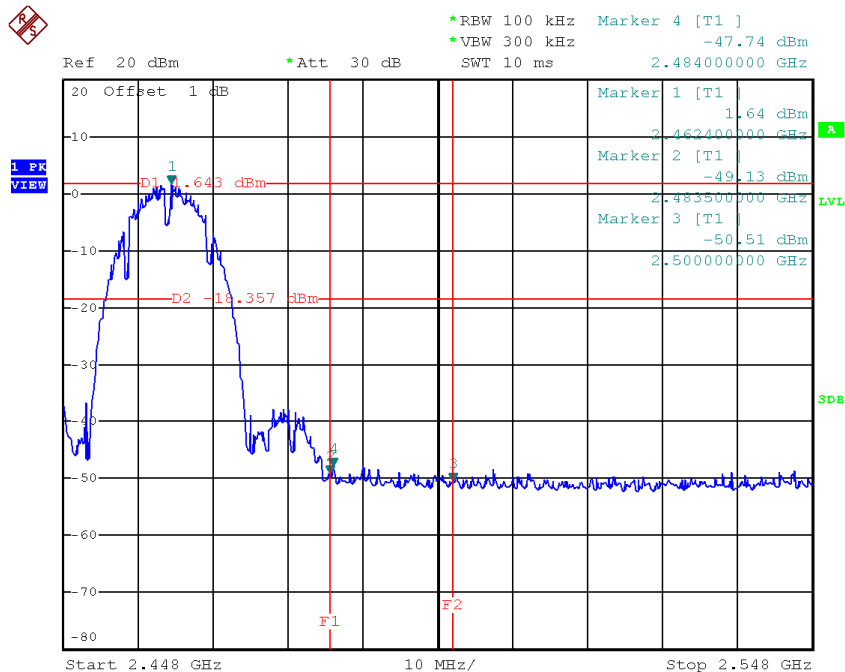
Test Mode :	TX B Mode
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TX B mode CH01



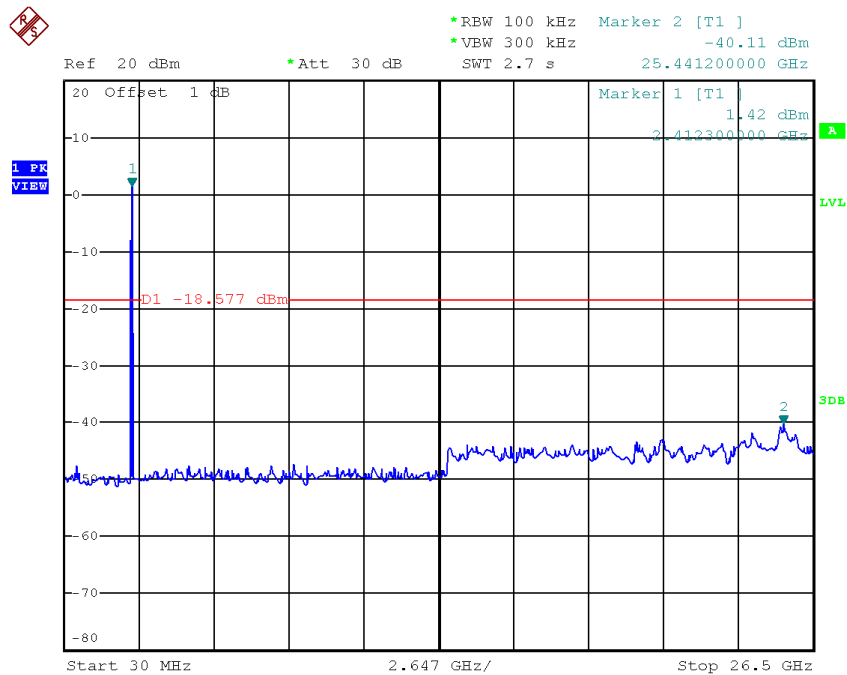
Date: 10.MAR.2015 14:42:11

TX B mode CH11



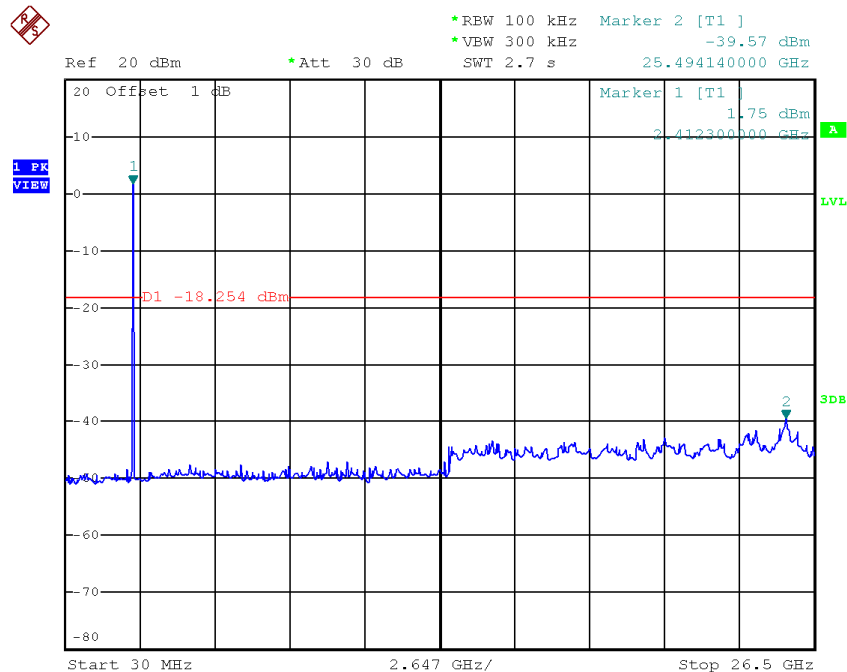
Date: 10.MAR.2015 14:44:08

TX B mode CH01 (10 Harmonic of the frequency)



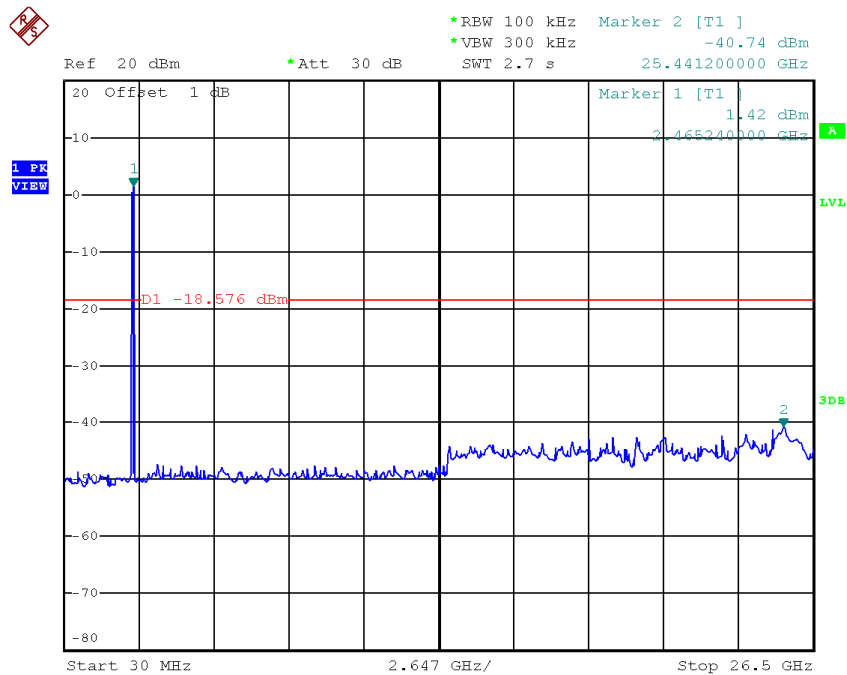
Date: 10.MAR.2015 14:41:47

TX B mode CH06 (10 Harmonic of the frequency)



Date: 10.MAR.2015 14:43:06

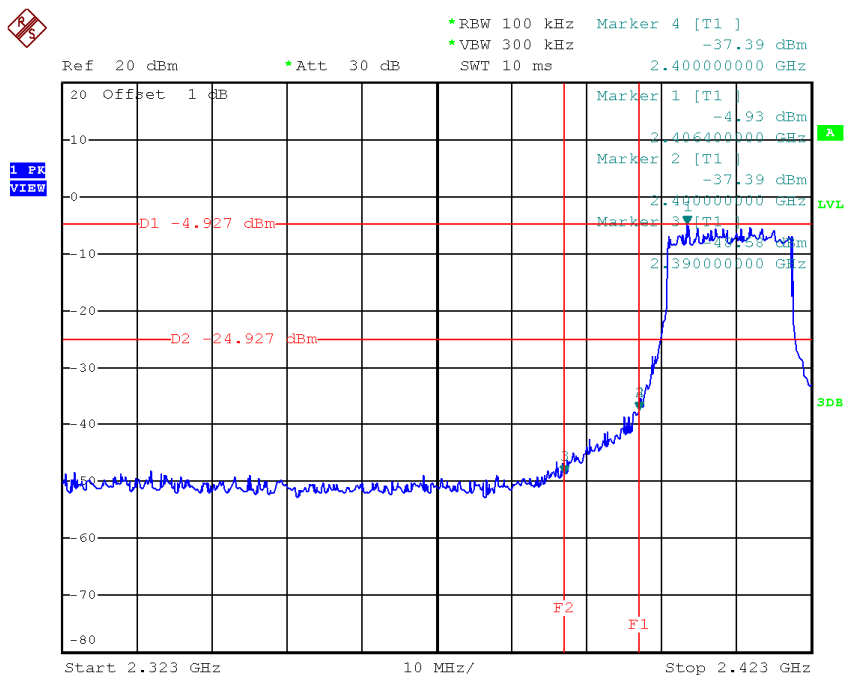
TX B mode CH11 (10 Harmonic of the frequency)



Date: 10.MAR.2015 14:43:45

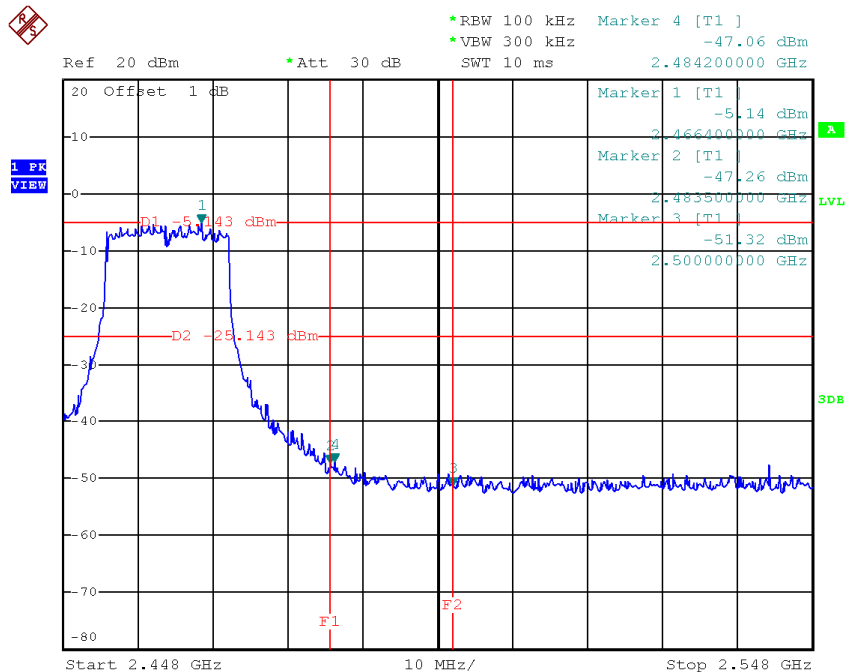
Test Mode :	TX G Mode
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TX G mode CH01



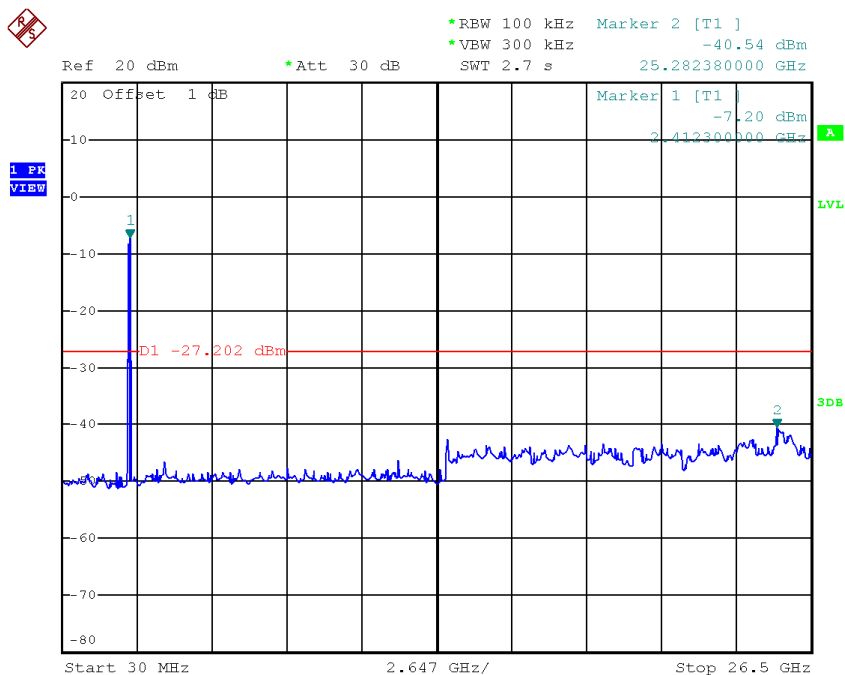
Date: 10.MAR.2015 14:45:23

TX G mode CH11



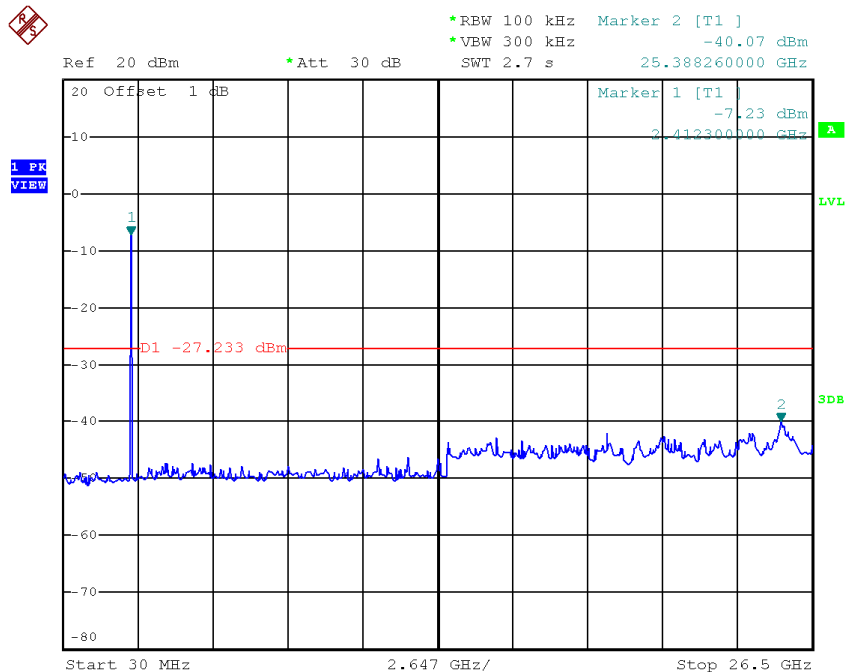
Date: 10.MAR.2015 14:46:44

TX G mode CH01 (10 Harmonic of the frequency)



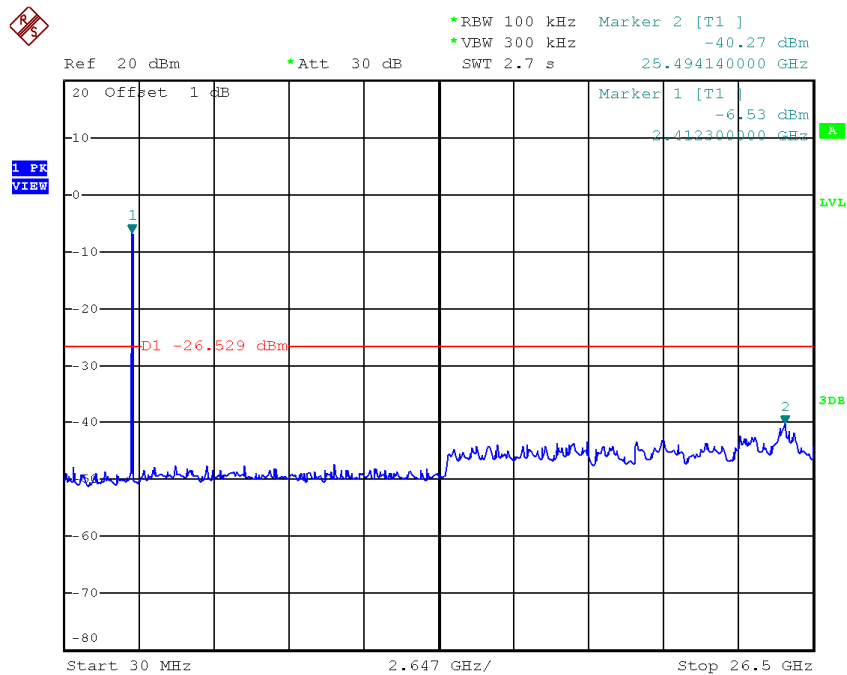
Date: 10.MAR.2015 14:45:00

TX G mode CH06 (10 Harmonic of the frequency)



Date: 10.MAR.2015 14:46:00

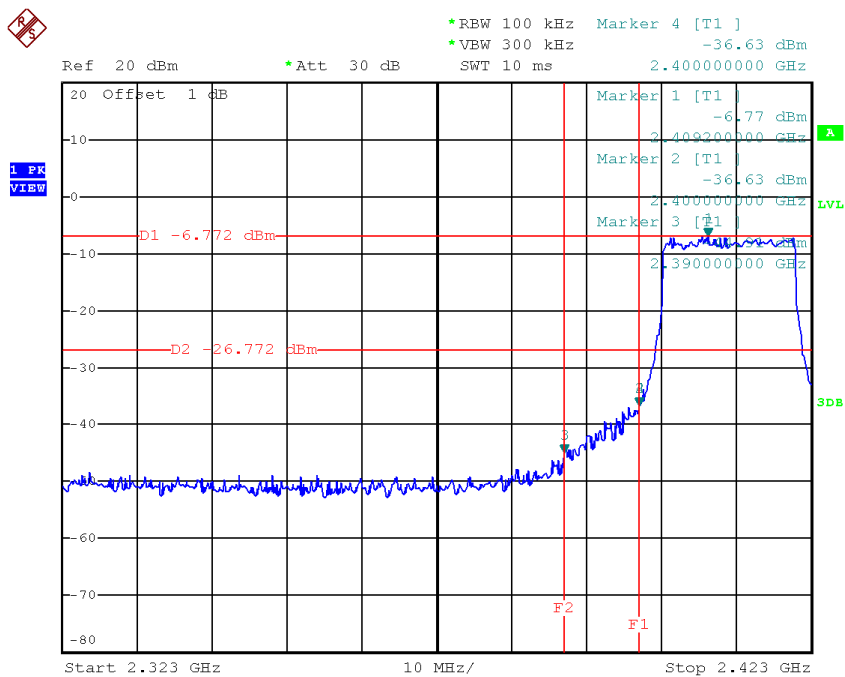
TX G mode CH11 (10 Harmonic of the frequency)



Date: 10.MAR.2015 14:46:38

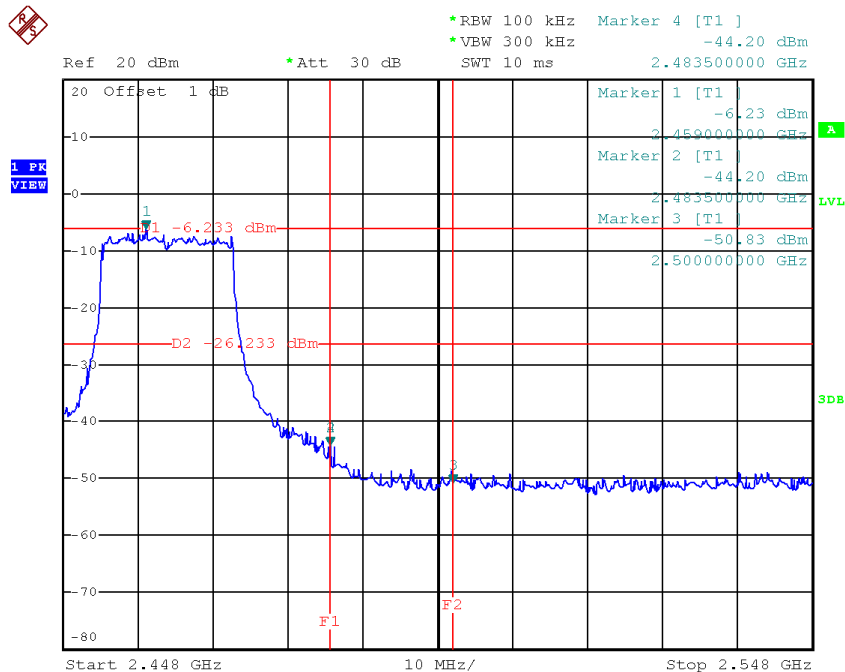
Test Mode :	TX N-20M Mode
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TX HT20 mode CH01



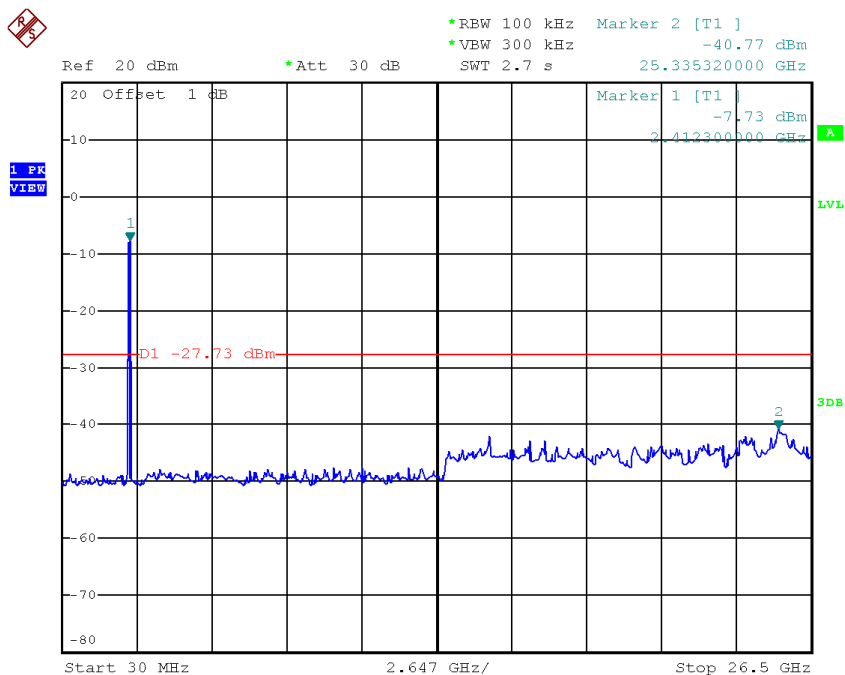
Date: 10.MAR.2015 14:48:01

TX HT20 mode CH11



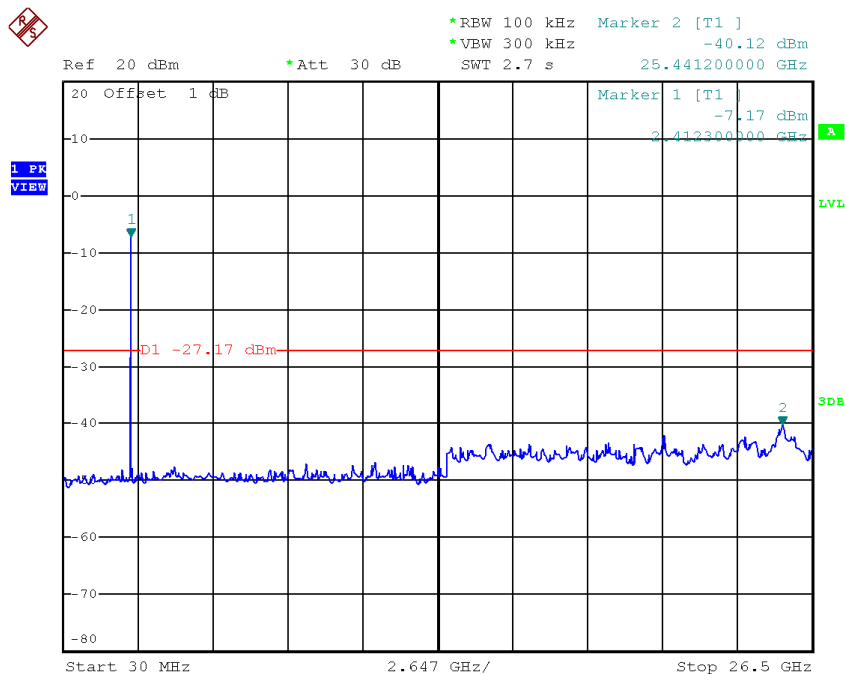
Date: 10.MAR.2015 14:49:18

TX HT20 mode CH01 (10 Harmonic of the frequency)



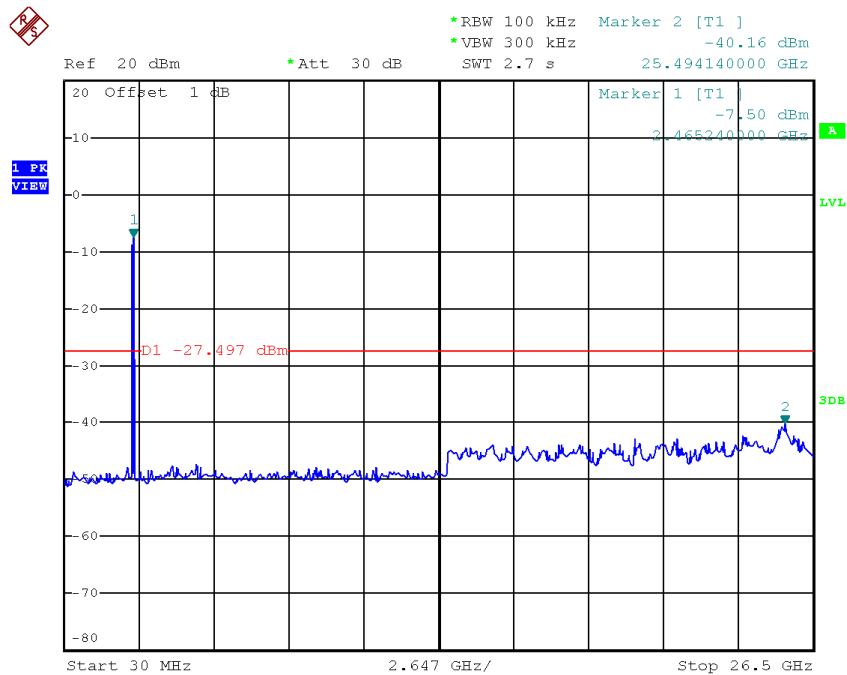
Date: 10.MAR.2015 14:47:37

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 10.MAR.2015 14:48:37

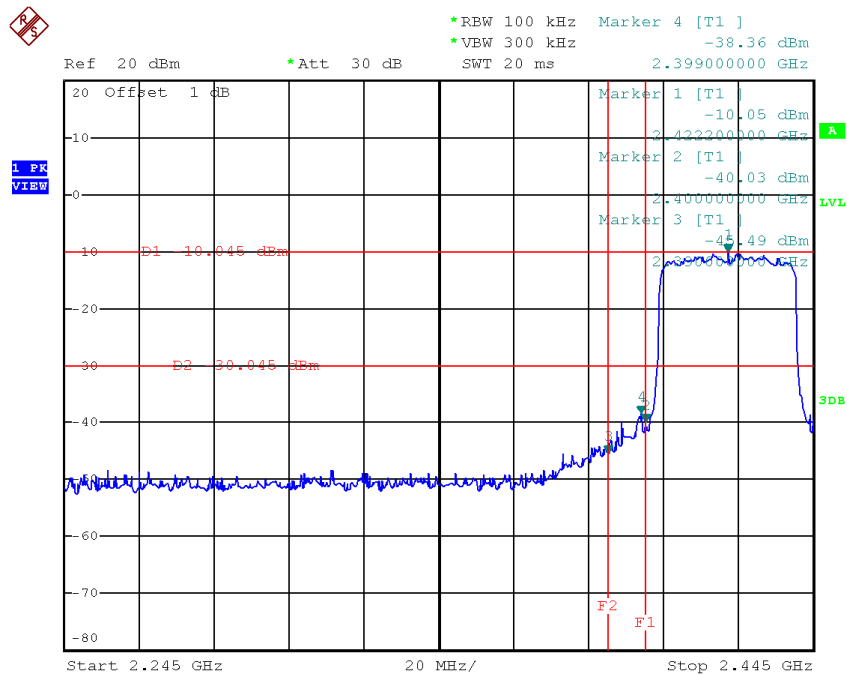
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 10.MAR.2015 14:49:11

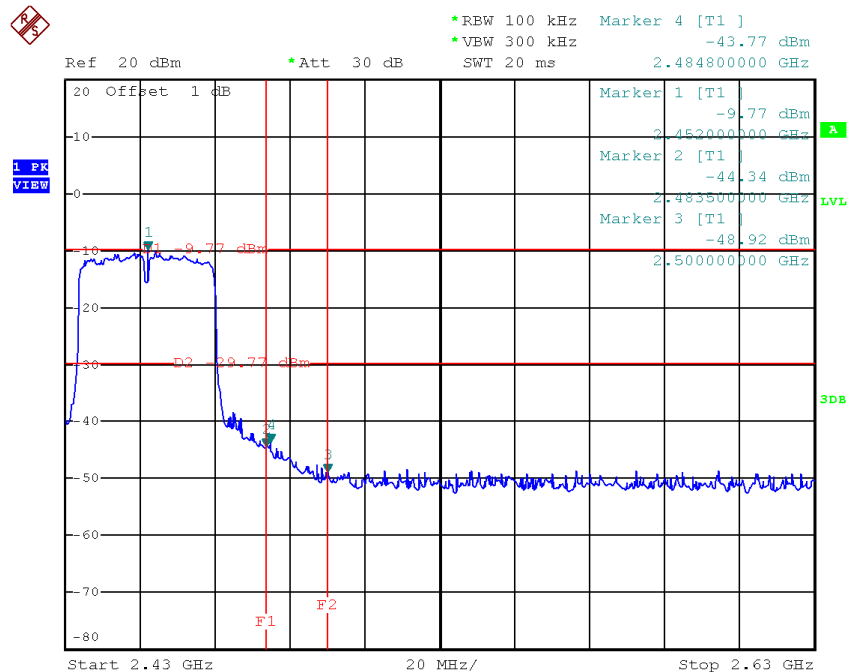
Test Mode :	TX N-40M Mode
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TX HT40 mode CH03



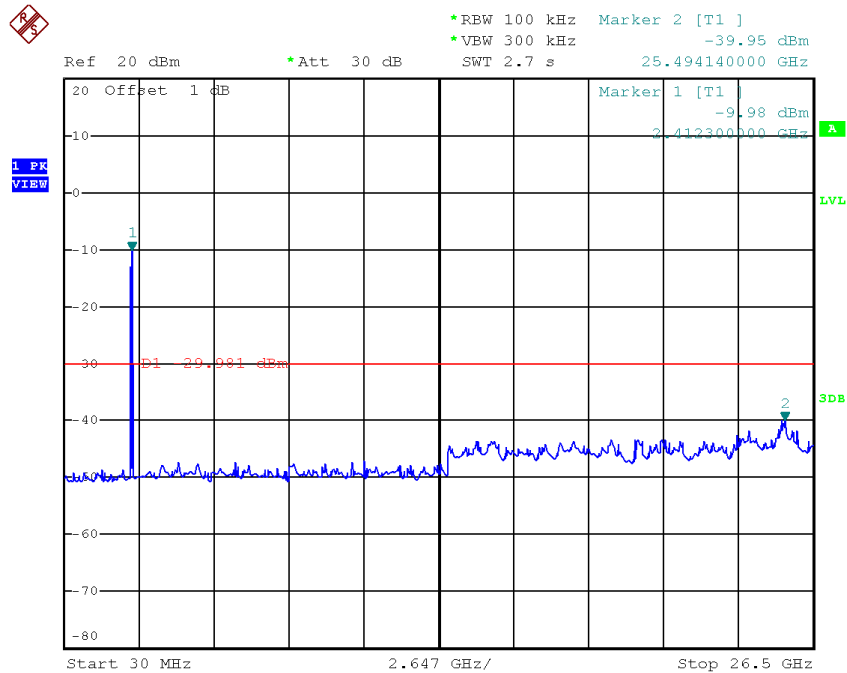
Date: 10.MAR.2015 14:50:32

TX HT40 mode CH09



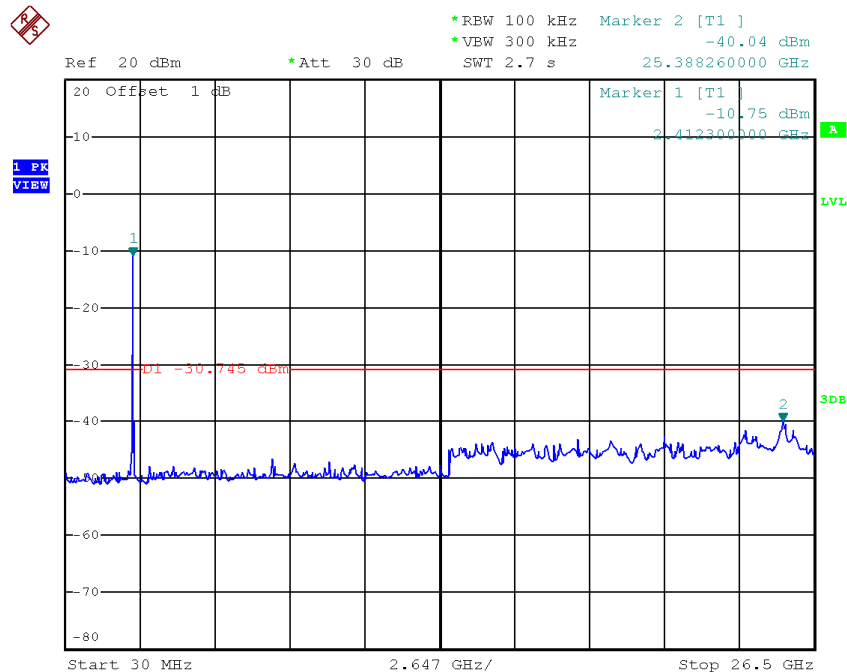
Date: 10.MAR.2015 14:52:12

TX HT40 mode CH03 (10 Harmonic of the frequency)



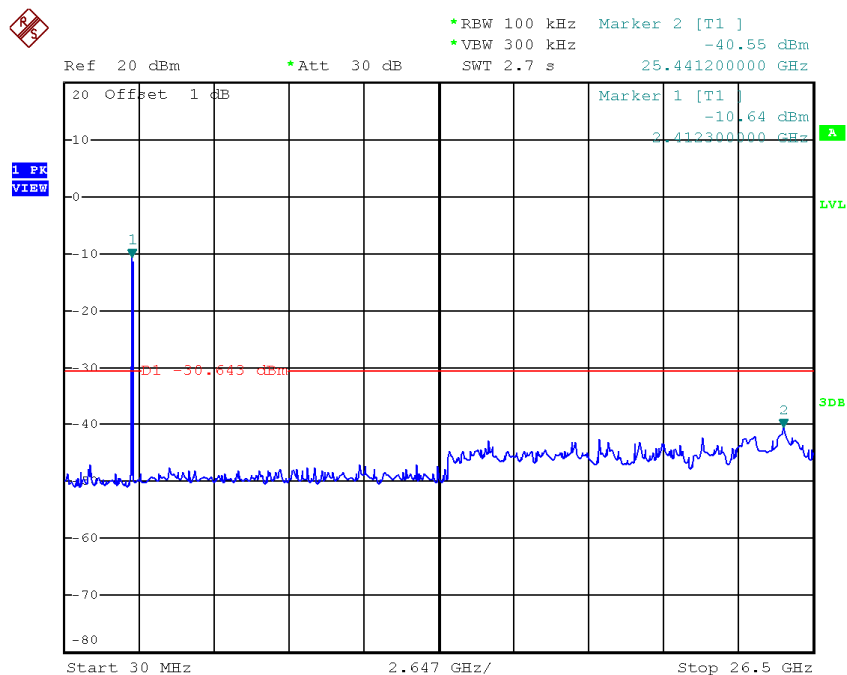
Date: 10.MAR.2015 14:50:09

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 10.MAR.2015 14:51:10

TX HT40 mode CH09 (10 Harmonic of the frequency)



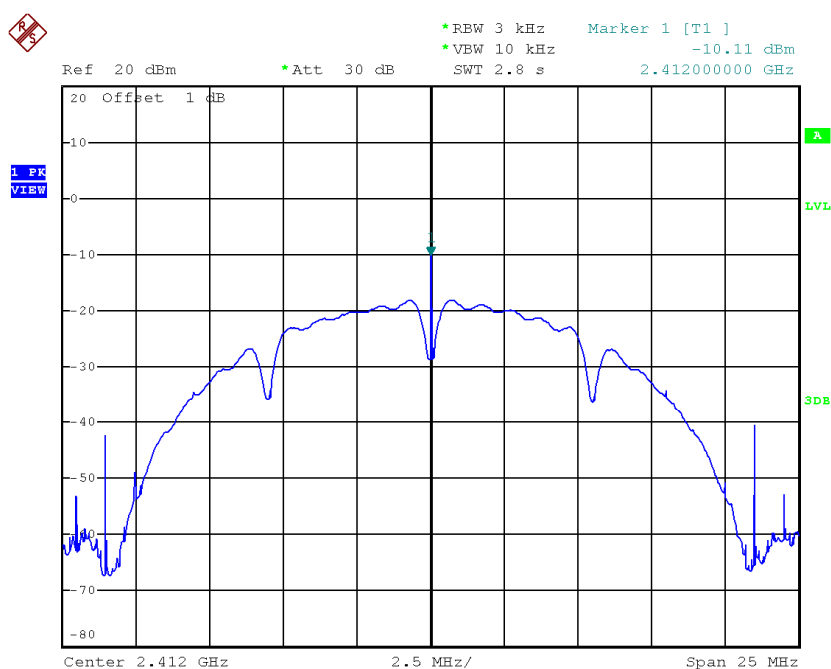
Date: 10.MAR.2015 14:51:48

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

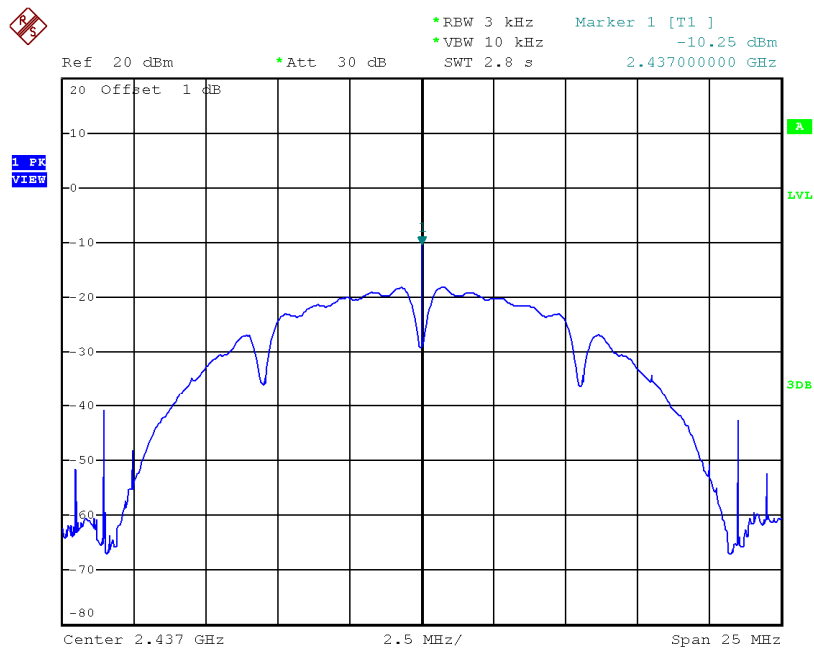
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.11	0.10	8.00	Complies
2437	-10.25	0.09	8.00	Complies
2462	-10.24	0.09	8.00	Complies

TX CH01



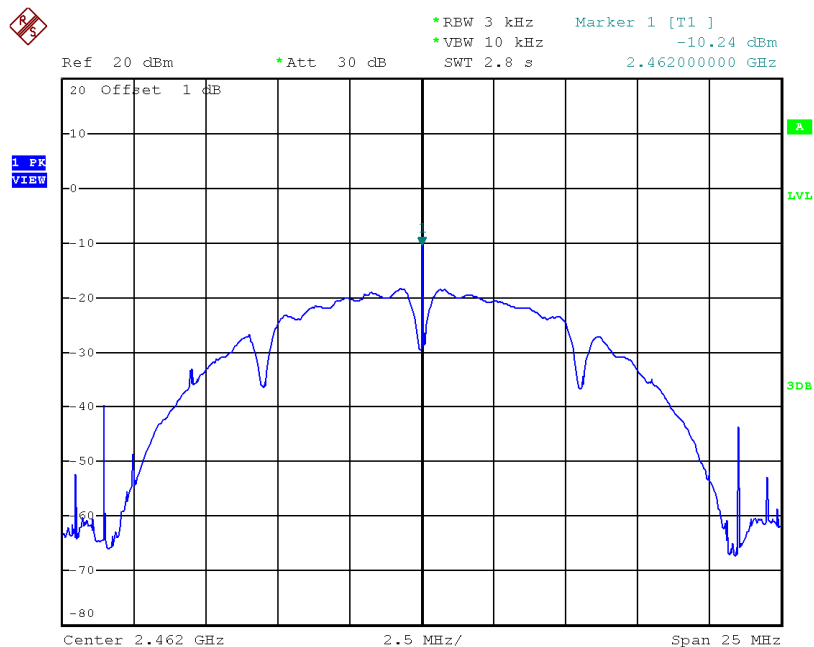
Date: 10.MAR.2015 14:42:20

TX CH06



Date: 10.MAR.2015 14:43:14

TX CH11

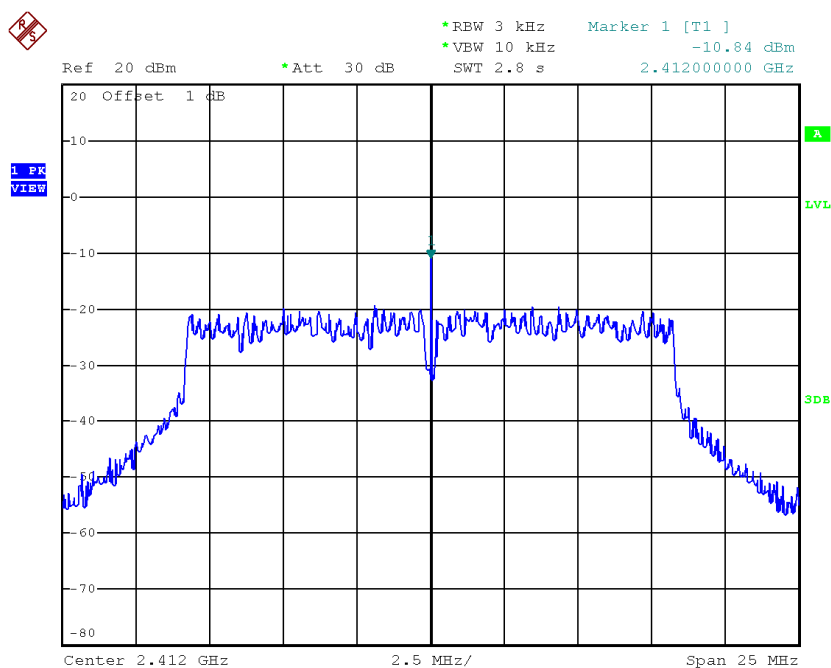


Date: 10.MAR.2015 14:44:17

Test Mode :TX G Mode_CH01/06/11

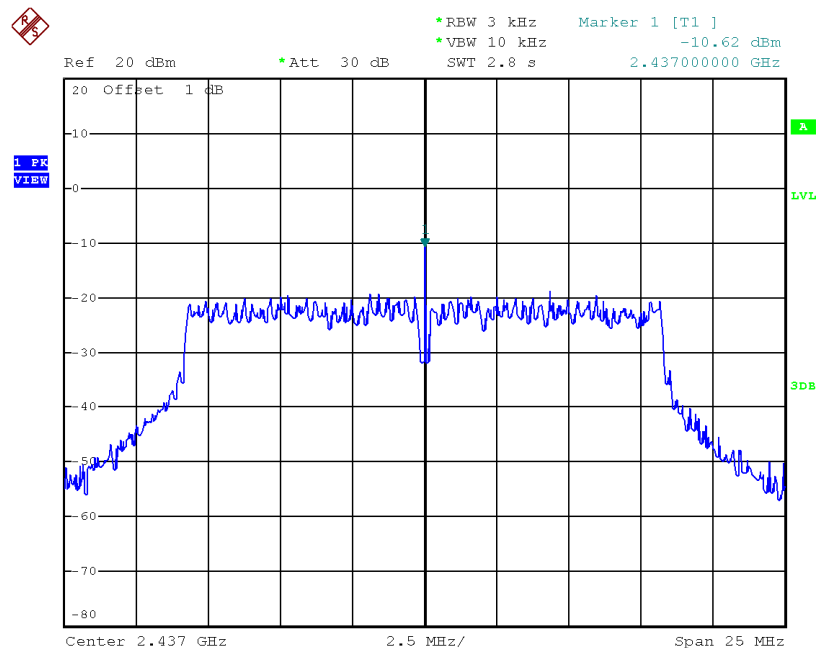
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.84	0.08	8.00	Complies
2437	-10.62	0.09	8.00	Complies
2462	-10.73	0.08	8.00	Complies

TX CH01



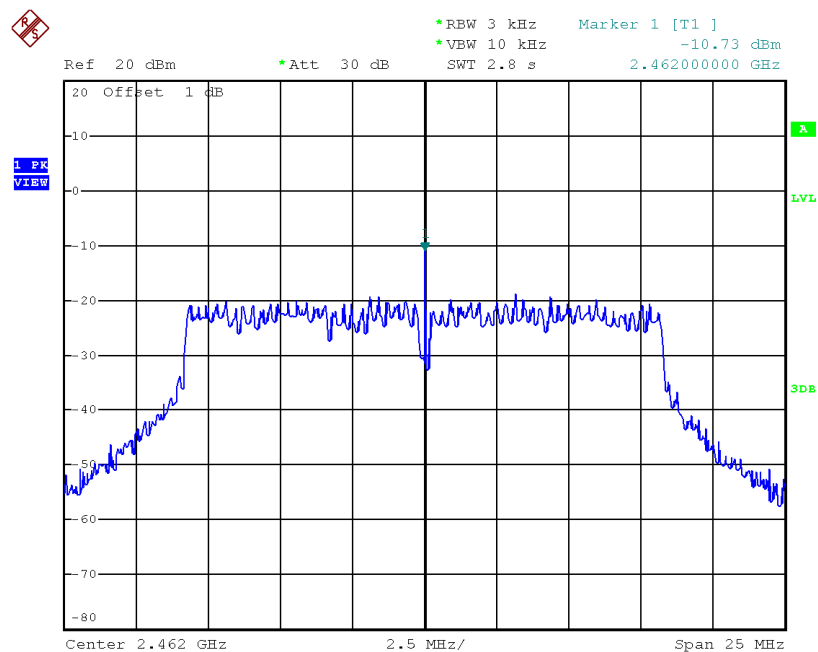
Date: 10.MAR.2015 14:45:32

TX CH06



Date: 10.MAR.2015 14:46:08

TX CH11

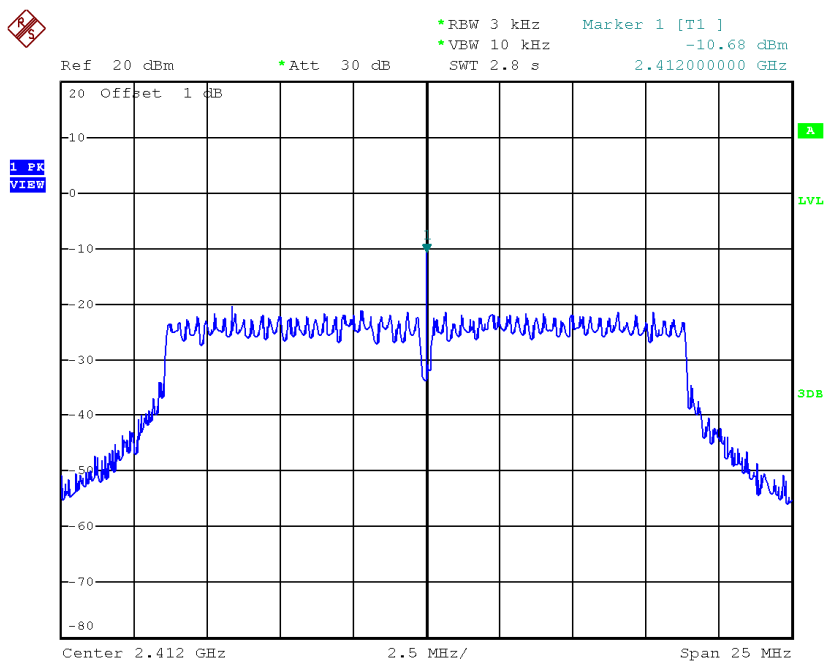


Date: 10.MAR.2015 14:46:53

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

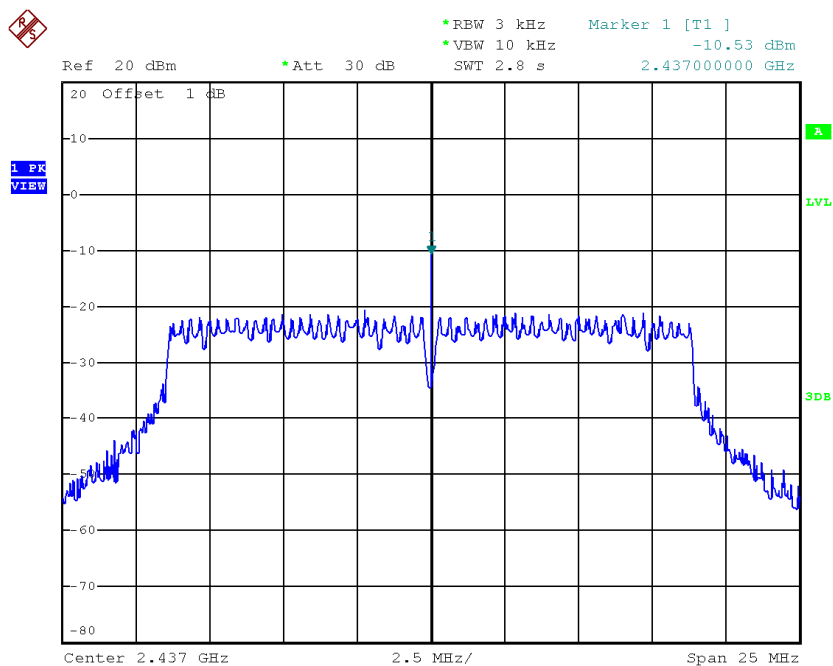
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.68	0.09	8.00	Complies
2437	-10.53	0.09	8.00	Complies
2462	-10.76	0.08	8.00	Complies

TX CH01



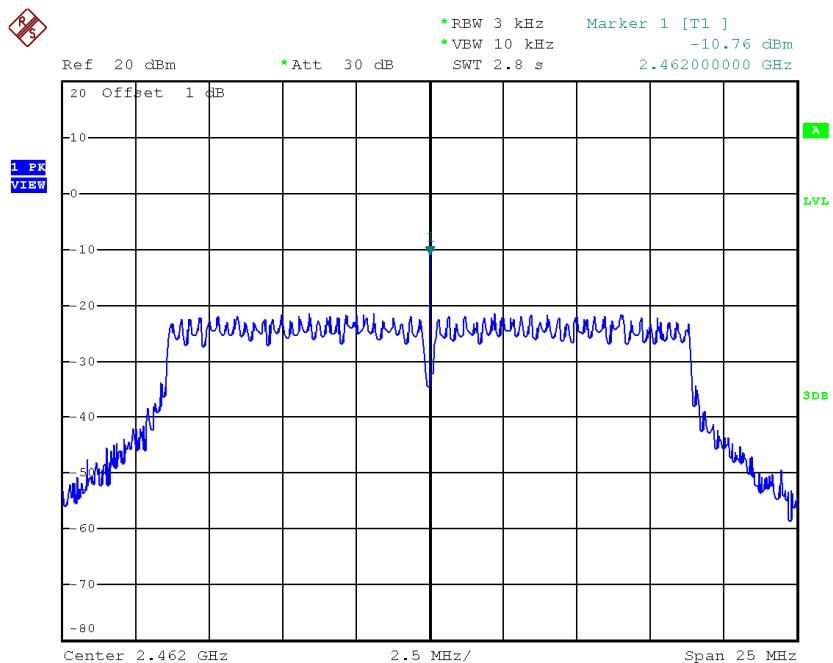
Date: 10.MAR.2015 14:48:10

TX CH06



Date: 10.MAR.2015 14:48:45

TX CH11

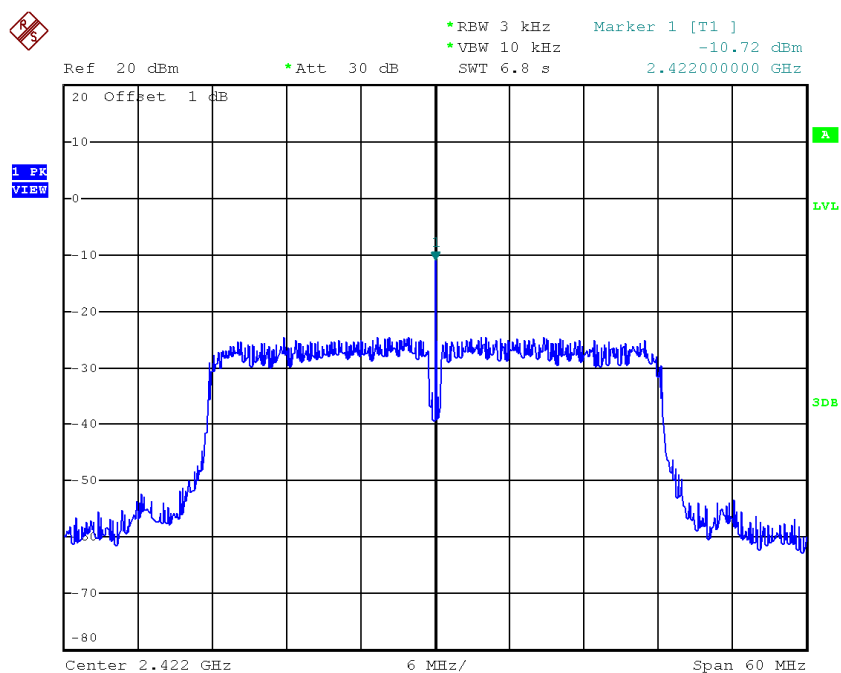


Date: 10.MAR.2015 14:49:26

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

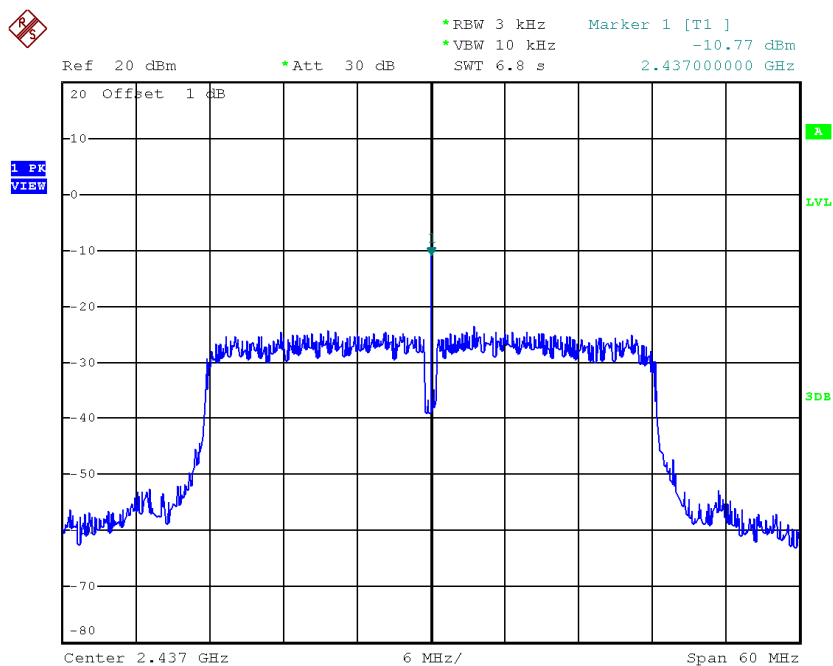
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-10.72	0.08	8.00	Complies
2437	-10.77	0.08	8.00	Complies
2452	-10.83	0.08	8.00	Complies

TX CH03



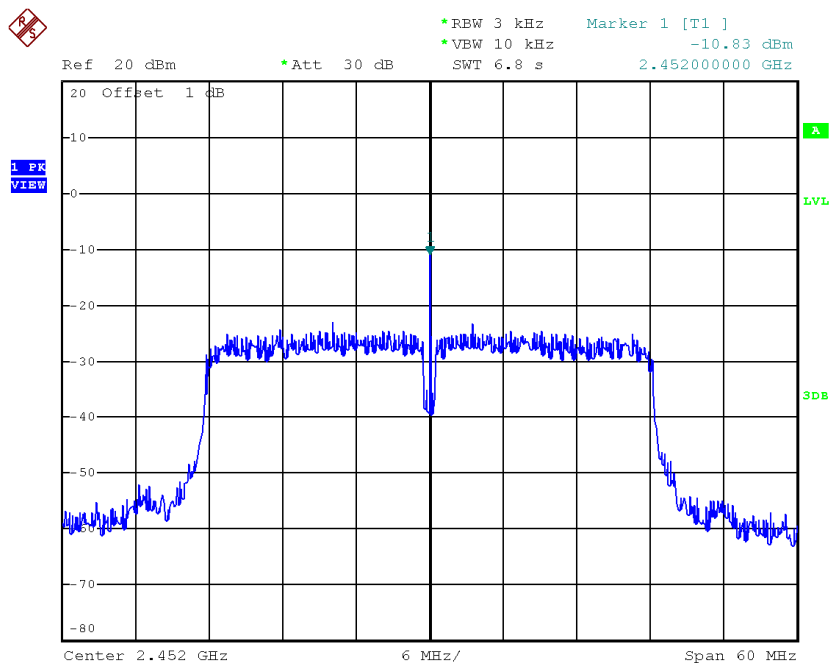
Date: 10.MAR.2015 14:50:44

TX CH06



Date: 10.MAR.2015 14:51:21

TX CH09



Date: 10.MAR.2015 14:52:23