

FCC Radio Test Report

FCC ID: RBWESY13P1

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

Project No. : 1510226
Equipment : POS
Model Name : ESY13P1
Applicant : Elo Touch Solutions, Inc.
Address : 1033 McCarthy Blvd, Milpitas, CA 95035, USA

Date of Receipt : Nov. 12, 2015
Date of Test : Nov. 12, 2015 ~ Dec. 16, 2015
Issued Date : Dec. 17, 2015
Tested by : BTL Inc.

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Declaration

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1510226	Original Issue.	Dec. 17, 2015

1. CERTIFICATION

Equipment : POS
Brand Name : Elo Touch Solutions
Model Name : ESY13P1
Applicant : Elo Touch Solutions, Inc.
Date of Test : Nov. 12, 2015 ~ Dec. 16, 2015
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1510226) 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
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.

2.1 TEST FACILITY

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

Conducted emission Test:

C05: (VCCI RN: C-4742; 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: (VCCI RN: G-91; 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.

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

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U , (dB)
C05	CISPR	150 kHz~30MHz	2.04

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U ,(dB)
CB08 (3m)	CISPR	9kHz ~ 150kHz	4.00
		150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant. H / V	U ,(dB)
CB08 (3m)	CISPR	30MHz ~ 200MHz	V	3.06
		30MHz ~ 200MHz	H	2.58
		200MHz ~ 1,000MHz	V	3.50
		200MHz ~ 1,000MHz	H	3.10

Test Site	Method	Measurement Frequency Range	Ant. H / V	U ,(dB)
CB08 (3m)	CISPR	1GHz ~ 6GHz	V	4.14
		1GHz ~ 6GHz	H	4.14
		6GHz ~ 18GHz	V	5.34
		6GHz ~ 18GHz	H	5.34

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} .

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	POS	
Brand Name	Elo Touch Solutions	
Model Name	ESY13P1	
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 150 Mbps
	Output Power (Max.)	802.11b: 17.04dBm 802.11g: 19.47dBm 802.11n(20MHz): 19.18dBm 802.11n(40MHz): 18.01dBm
Power Source	AC Mains.	
Power Rating	I/P: AC 100-240V ~1A 50/60Hz	

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 – CH11 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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	ACX	AT3216-B2R7HAA	Chip	N/A	-0.5

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:

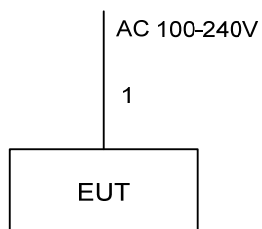
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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	DOS		
Frequency (MHz)	2412	2437	2462
802.11b	44	44	44
802.11g	44	44	44
802.11n (20MHz)	44	44	44
Frequency	2422	2437	2452
802.11n (40MHz)	44	44	44

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.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.7m	Power 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

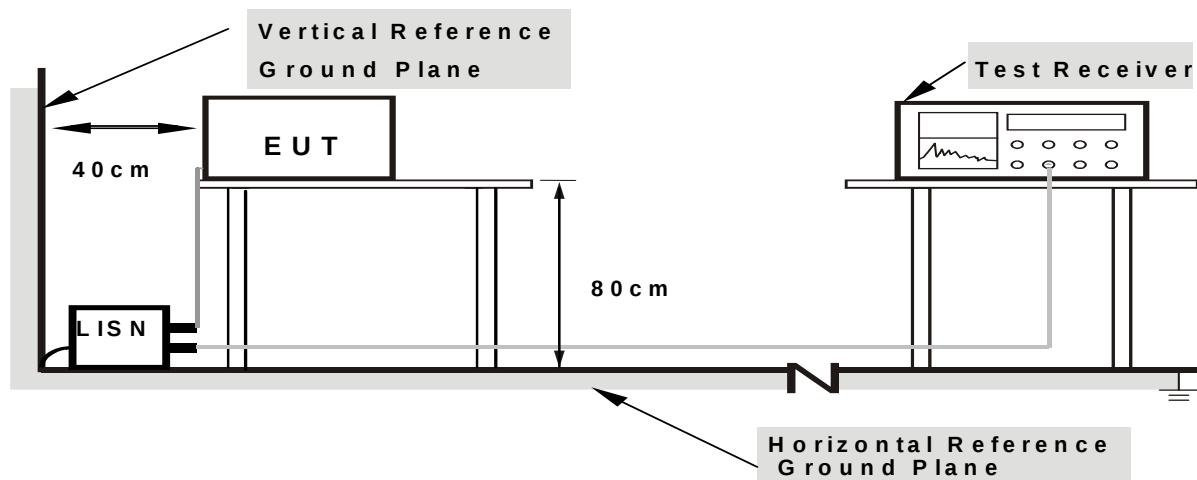
4.1.2 TEST PROCEDURE

- 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 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

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)	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

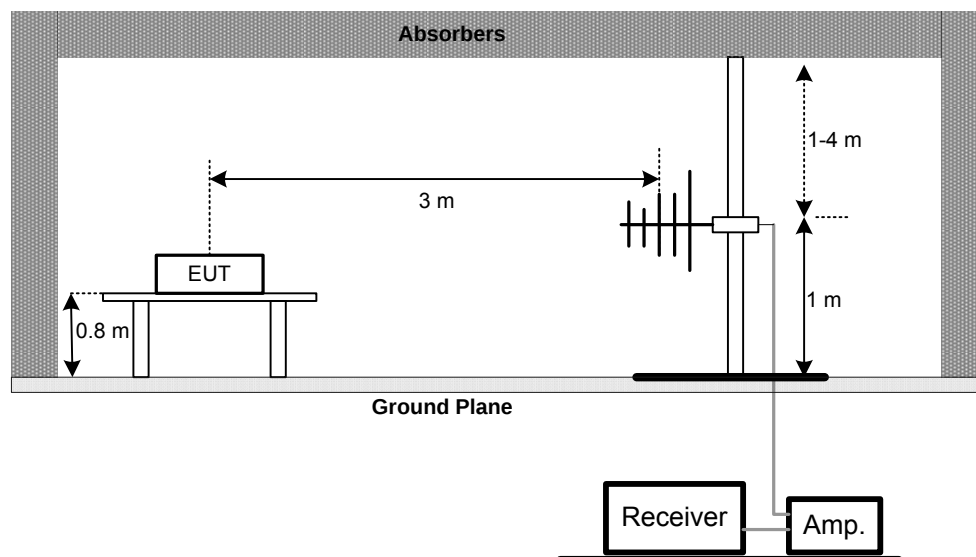
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

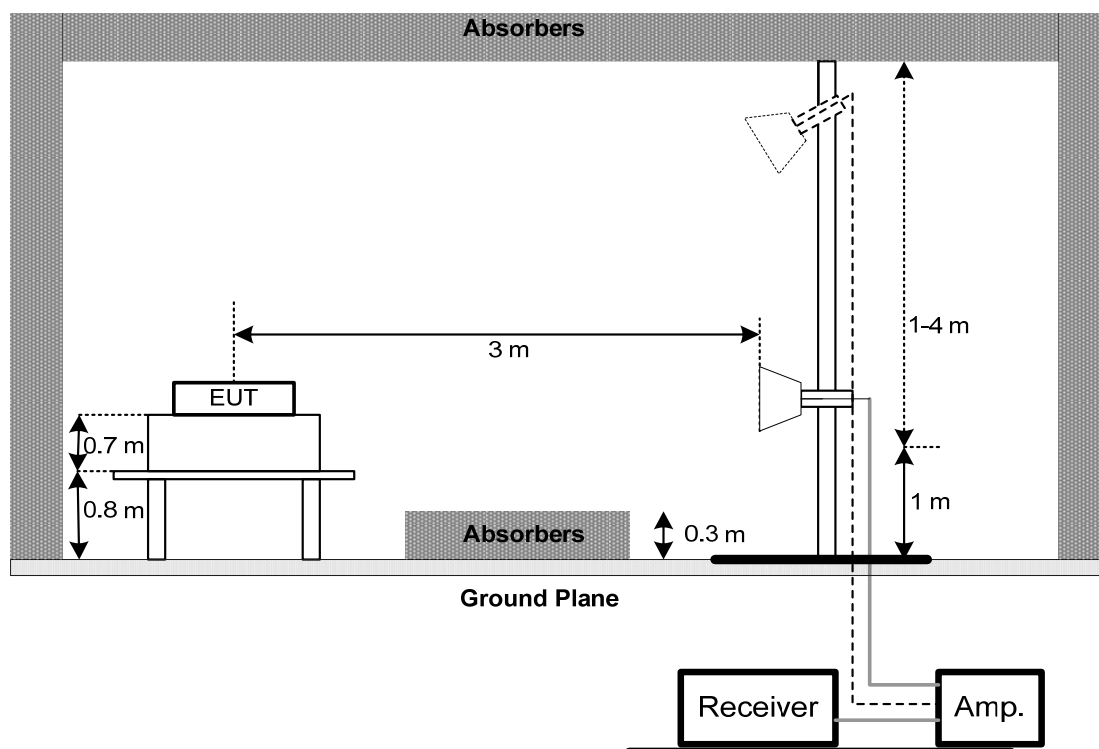
No deviation

4.2.4 TEST SETUP

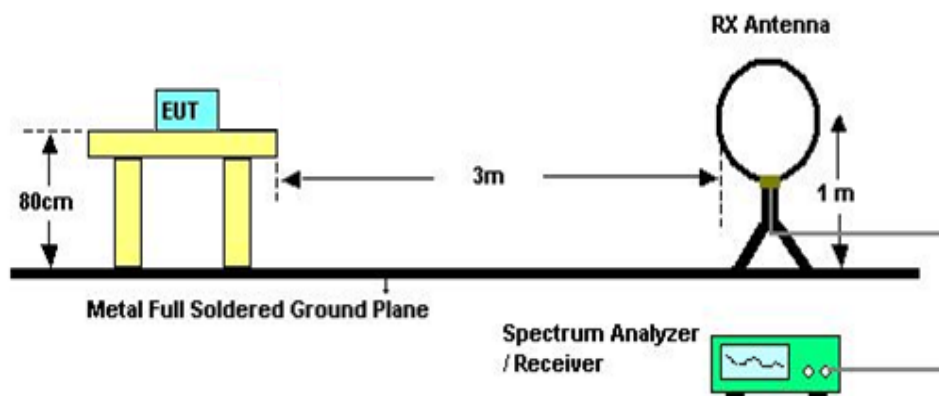
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 (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			
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 was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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 was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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 was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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	Jun. 01, 2016
2	Test Cable	TIMES	CFD300-NL	C03	Mar. 04, 2016
3	EMI Test Receiver	R&S	ESR3	101854	Dec. 08, 2016
4	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jan. 07, 2016
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 20, 2016
3	Microwave Pre-amplifier	Agilent	8449B	3008A01714	Apr. 13, 2016
4	Microflex Cable	Harbour industries	27478LL142	1m	Apr. 13, 2016
5	Microflex Cable	EMC	S104-SMA	8m	May 14, 2016
6	Microflex Cable	Harbour industries	27478LL142	3m	May 13, 2016
7	Test Cable	LMR	LMR-400	10m	May 13, 2016
8	Test Cable	LMR	LMR-400	3m	May 13, 2016
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 16, 2016
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jul. 30, 2016
11	Loop Antenna	EMCO	6502	00042960	Nov. 05, 2016

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	ML2487A	6K00004714	May 19, 2016
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 18, 2016

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



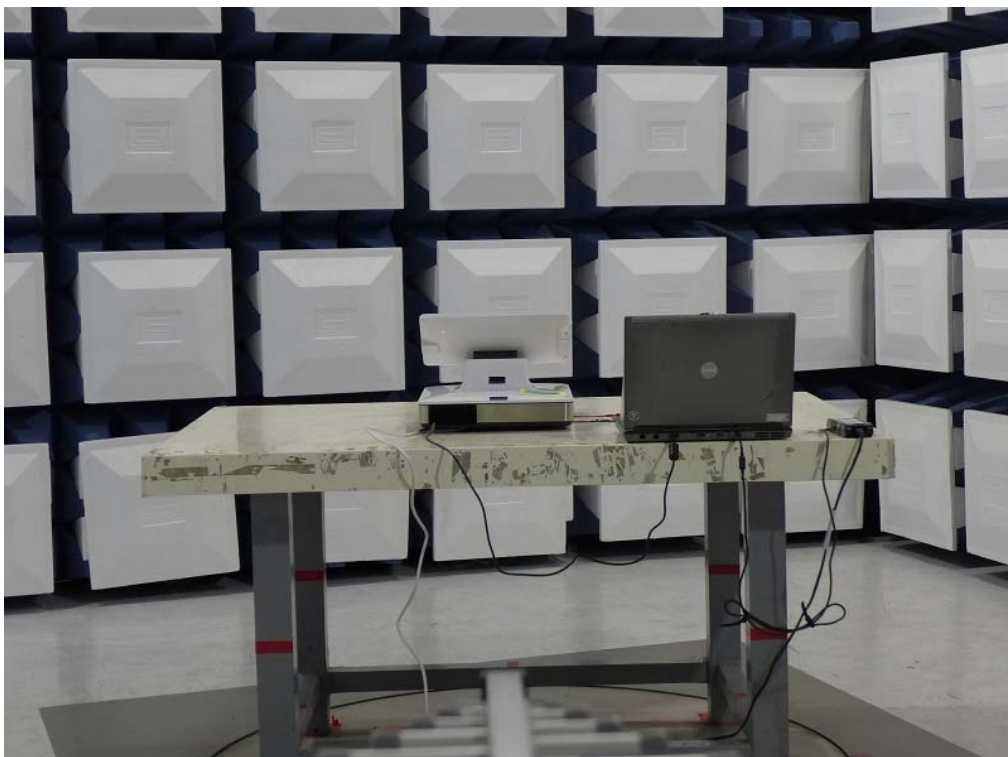
Radiated Measurement Photos

9KHz to 30MHz



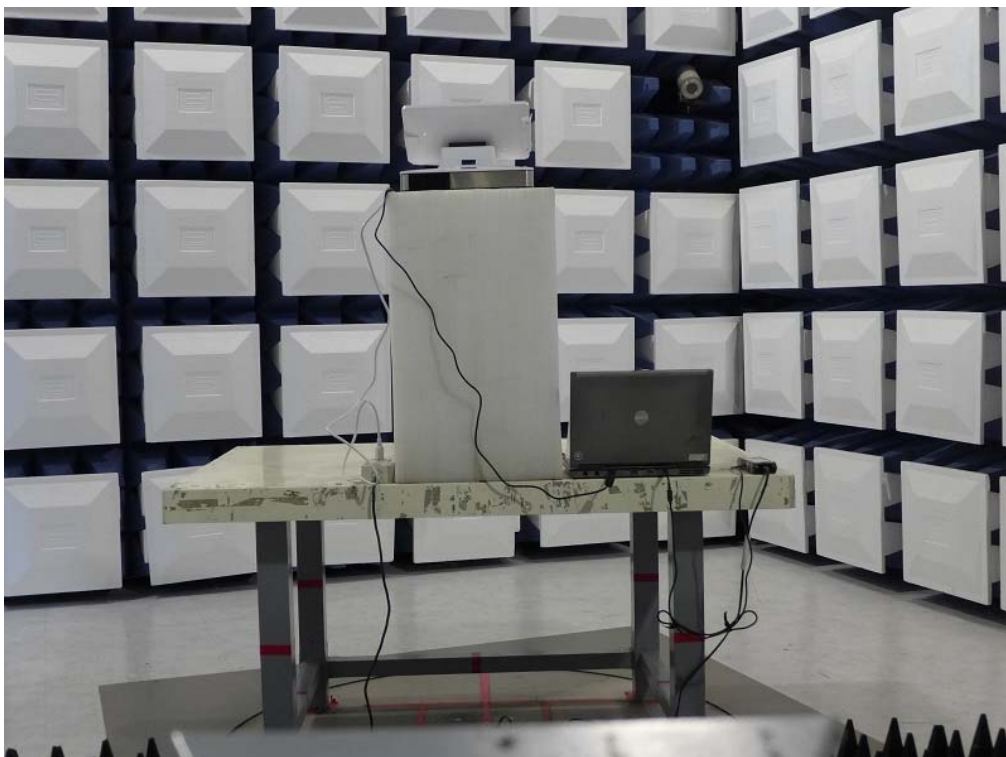
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

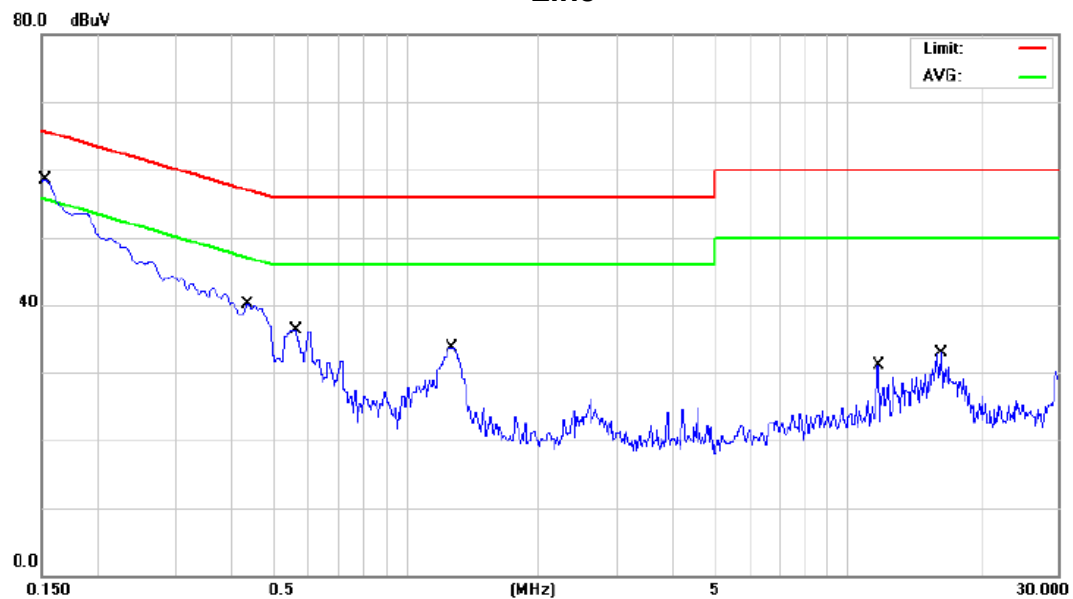
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX Mode

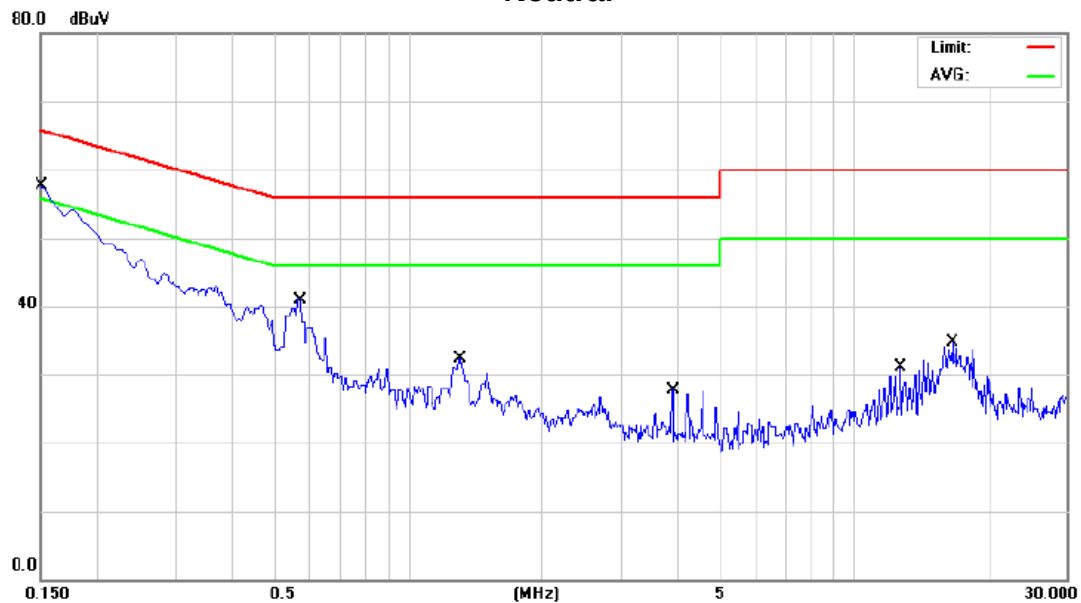
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1521	43.10	9.64	52.74	65.88	-13.14	QP	
2		0.1521	29.80	9.64	39.44	55.88	-16.44	AVG	
3		0.4355	17.60	9.64	27.24	57.15	-29.91	QP	
4		0.4355	8.10	9.64	17.74	47.15	-29.41	AVG	
5		0.5630	25.60	9.64	35.24	56.00	-20.76	QP	
6		0.5630	15.30	9.64	24.94	46.00	-21.06	AVG	
7		1.2649	21.60	9.68	31.28	56.00	-24.72	QP	
8		1.2649	9.50	9.68	19.18	46.00	-26.82	AVG	
9		11.7000	16.50	9.88	26.38	60.00	-33.62	QP	
10		11.7000	12.70	9.88	22.58	50.00	-27.42	AVG	
11		16.2500	19.30	9.82	29.12	60.00	-30.88	QP	
12		16.2500	15.70	9.82	25.52	50.00	-24.48	AVG	

Test Mode : TX Mode

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	43.40	9.63	53.03	65.99	-12.96	QP	
2		0.1500	30.70	9.63	40.33	55.99	-15.66	AVG	
3		0.5720	27.90	9.65	37.55	56.00	-18.45	QP	
4		0.5720	15.10	9.65	24.75	46.00	-21.25	AVG	
5		1.3010	17.90	9.69	27.59	56.00	-28.41	QP	
6		1.3010	7.20	9.69	16.89	46.00	-29.11	AVG	
7		3.9020	13.20	9.80	23.00	56.00	-33.00	QP	
8		3.9020	12.40	9.80	22.20	46.00	-23.80	AVG	
9		12.6500	18.70	9.87	28.57	60.00	-31.43	QP	
10		12.6500	17.30	9.87	27.17	50.00	-22.83	AVG	
11		16.5500	20.50	9.84	30.34	60.00	-29.66	QP	
12		16.5500	16.30	9.84	26.14	50.00	-23.86	AVG	

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

Test Mode: TX B MODE CHANNEL 01

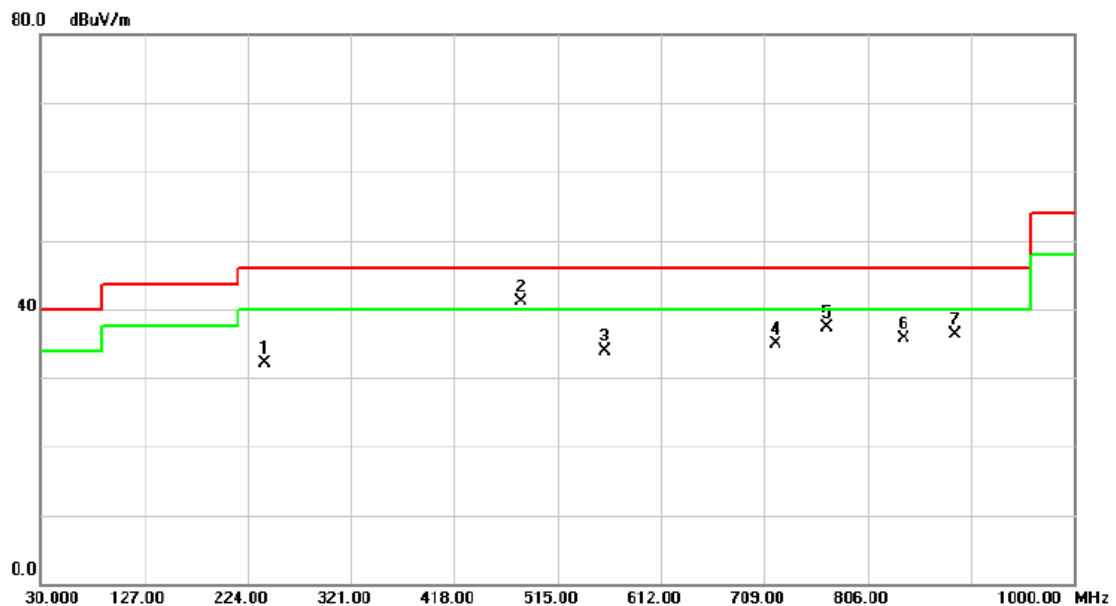
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.012	0°	33.810	22.350	56.160	106.021	-49.861	AVG
0.012	0°	43.180	22.350	65.530	126.021	-60.491	PK
0.026	0°	24.970	22.013	46.983	99.473	-52.491	AVG
0.026	0°	40.860	22.013	62.873	119.473	-56.601	PK
0.039	0°	24.070	21.683	45.753	95.850	-50.098	AVG
0.039	0°	34.230	21.683	55.913	115.850	-59.938	PK
0.065	0°	25.170	21.155	46.325	91.306	-44.981	AVG
0.065	0°	33.660	21.155	54.815	111.306	-56.491	PK
1.264	0°	31.730	20.336	52.066	65.569	-13.503	QP
1.340	0°	34.100	20.260	54.360	65.062	-10.702	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.016	90°	34.110	22.258	56.368	103.686	-47.319	AVG
0.016	90°	41.980	22.258	64.238	123.686	-59.449	PK
0.028	90°	27.650	21.958	49.608	98.755	-49.147	AVG
0.028	90°	34.890	21.958	56.848	118.755	-61.907	PK
0.035	90°	26.540	21.773	48.313	96.698	-48.386	AVG
0.035	90°	30.770	21.773	52.543	116.698	-64.156	PK
0.076	90°	25.720	20.979	46.699	89.954	-43.255	AVG
0.076	90°	31.640	20.979	52.619	109.954	-57.335	PK
1.453	90°	34.320	20.147	54.467	64.359	-9.892	QP
1.600	90°	33.170	20.000	53.170	63.522	-10.352	QP

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

Test Mode: TX MODE 2437MHz

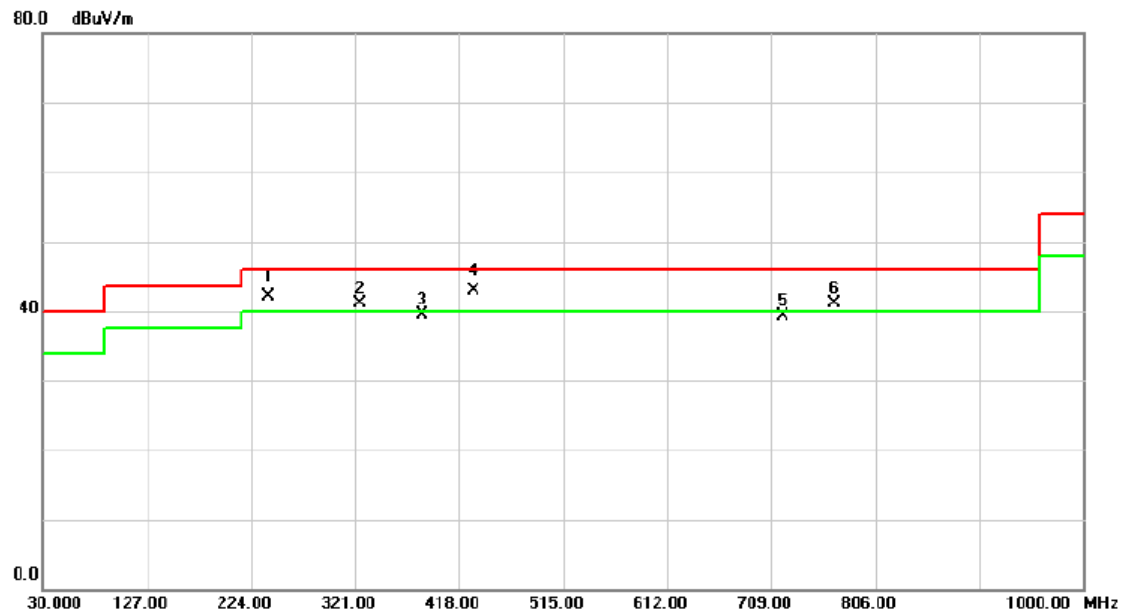
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		240.4900	45.52	-13.45	32.07	46.00	-13.93	peak	
2	*	480.0800	49.59	-8.53	41.06	46.00	-4.94	peak	
3		559.6200	41.30	-7.49	33.81	46.00	-12.19	peak	
4		719.6700	38.93	-4.09	34.84	46.00	-11.16	peak	
5		768.1700	40.70	-3.46	37.24	46.00	-8.76	peak	
6		839.9500	38.48	-2.71	35.77	46.00	-10.23	peak	
7		888.4500	38.00	-1.73	36.27	46.00	-9.73	peak	

Test Mode: TX MODE 2437MHz

Horizontal

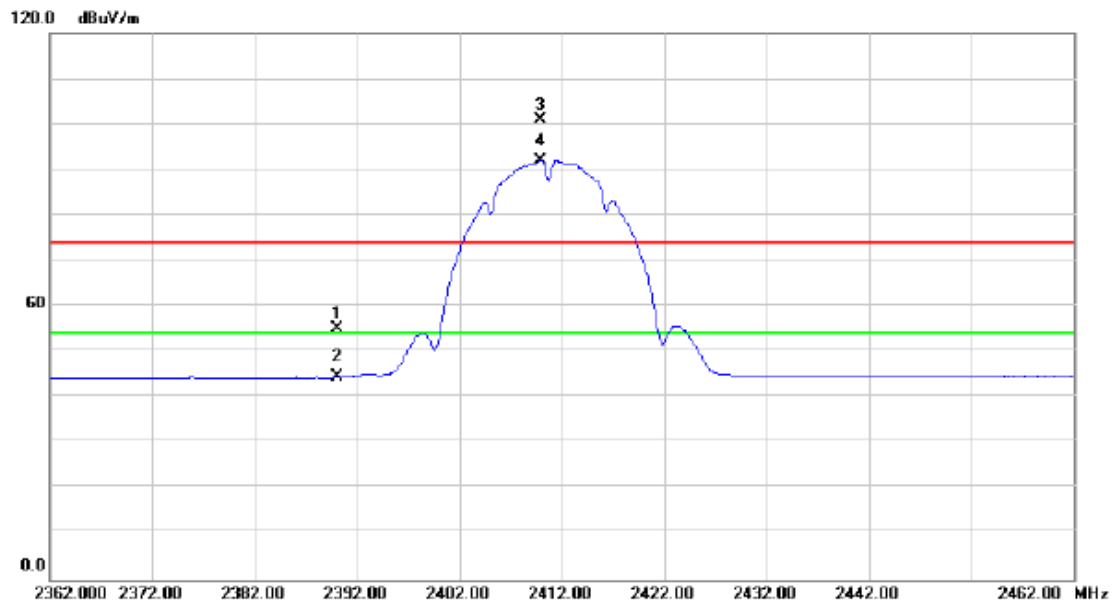


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	240.4900	55.57	-13.45	42.12	46.00	-3.88	QP	
2	!	325.8500	52.00	-10.87	41.13	46.00	-4.87	peak	
3		384.0500	49.43	-9.94	39.49	46.00	-6.51	peak	
4	*	431.5800	52.22	-9.26	42.96	46.00	-3.04	QP	
5		719.6700	43.31	-4.09	39.22	46.00	-6.78	peak	
6	!	768.1700	44.64	-3.46	41.18	46.00	-4.82	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

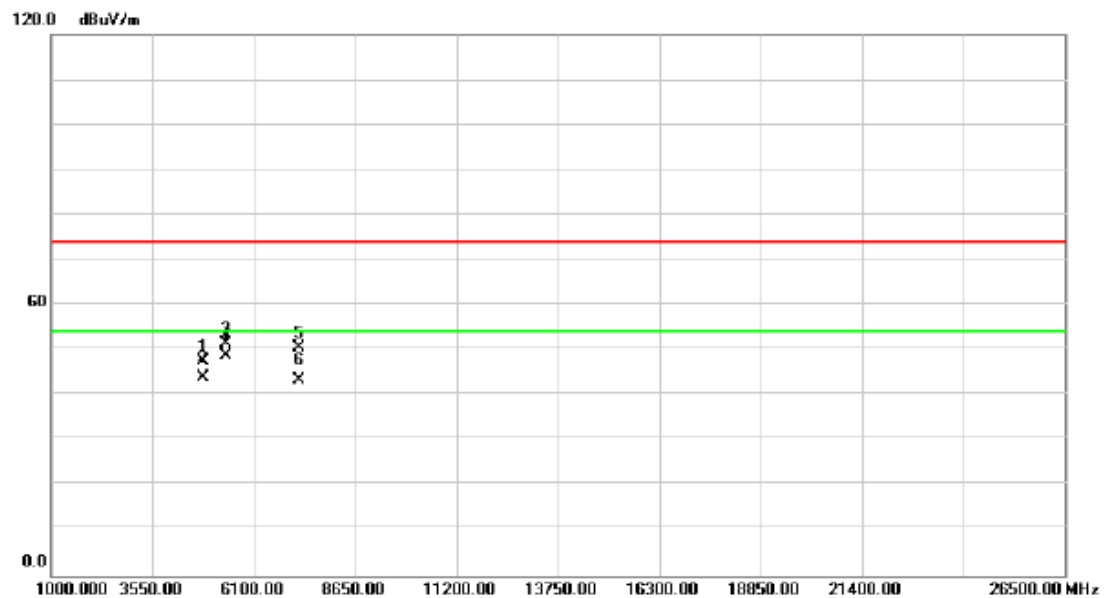
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.40	30.79	55.19	74.00	-18.81	peak	
2		2390.000	13.65	30.79	44.44	54.00	-9.56	AVG	
3	X	2409.900	70.02	30.85	100.87	74.00	26.87	peak	No Limit
4	*	2409.900	61.18	30.85	92.03	54.00	38.03	AVG	No Limit

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

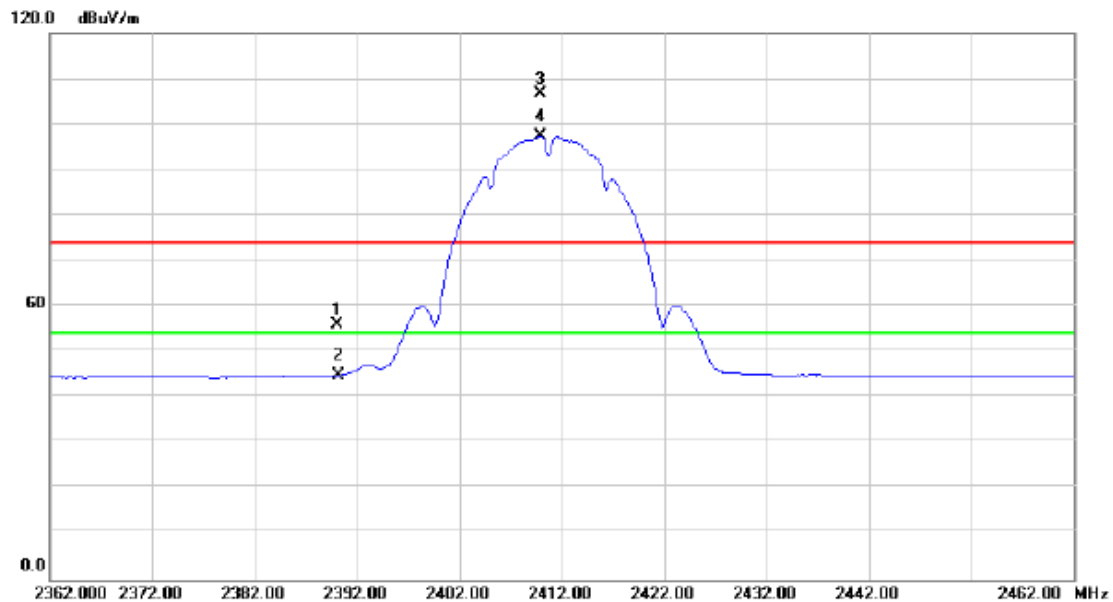
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4821.040	44.06	3.38	47.44	74.00	-26.56	peak	
2		4821.040	40.67	3.38	44.05	54.00	-9.95	AVG	
3		5399.980	46.84	4.57	51.41	74.00	-22.59	peak	
4	*	5399.980	44.33	4.57	48.90	54.00	-5.10	AVG	
5		7230.680	42.21	8.43	50.64	74.00	-23.36	peak	
6		7230.680	34.90	8.43	43.33	54.00	-10.67	AVG	

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

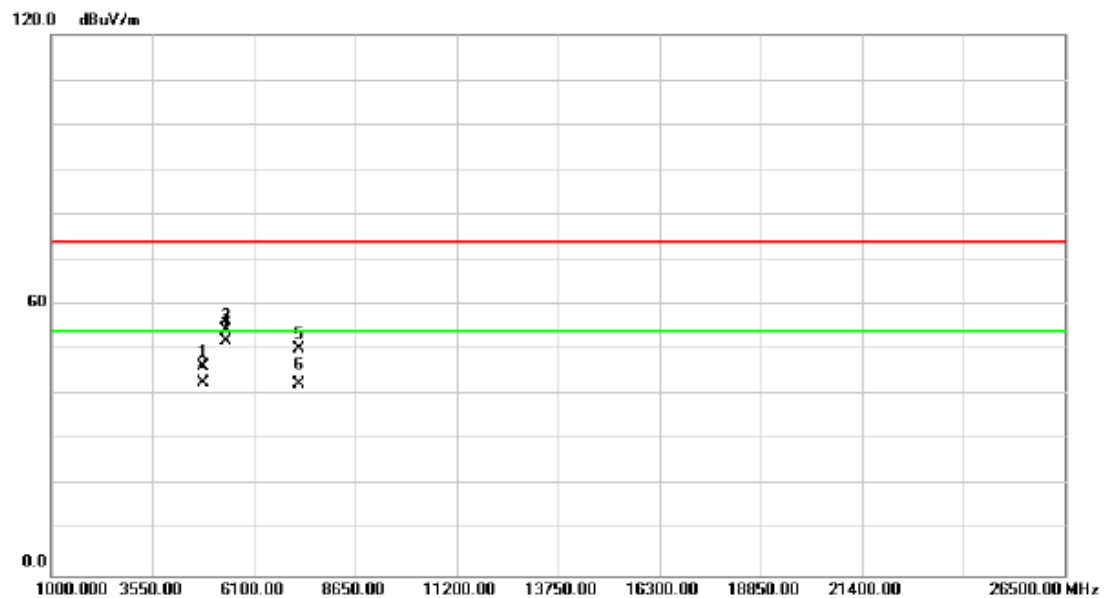
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.19	30.79	55.98	74.00	-18.02	peak	
2		2390.000	14.05	30.79	44.84	54.00	-9.16	AVG	
3	X	2409.900	75.89	30.85	106.74	74.00	32.74	peak	No Limit
4	*	2409.900	66.59	30.85	97.44	54.00	43.44	AVG	No Limit

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

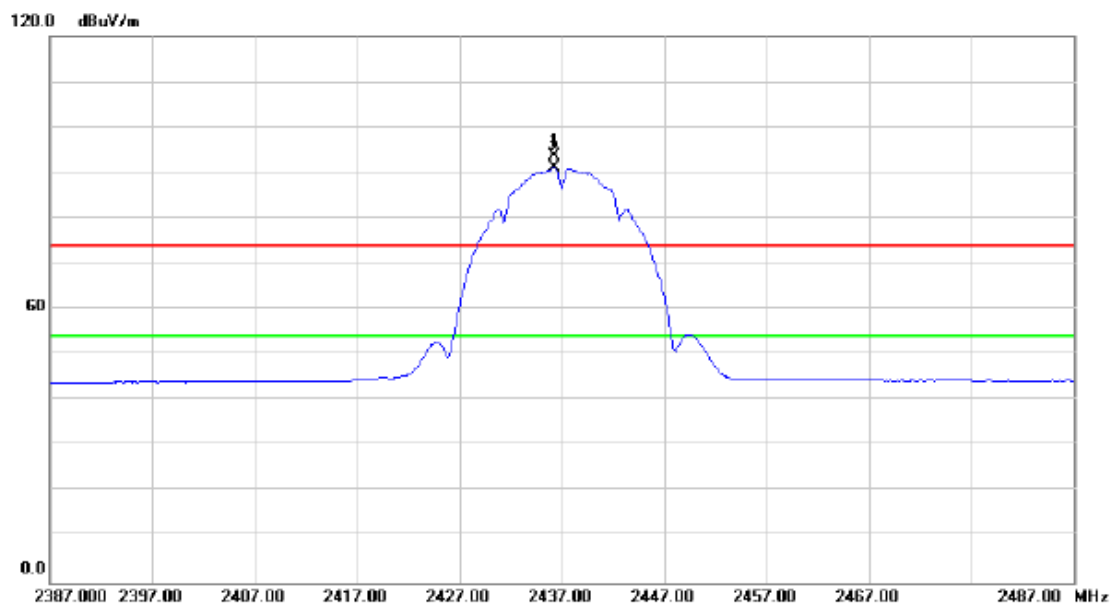
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4821.000	42.95	3.38	46.33	74.00	-27.67	peak	
2		4821.000	39.35	3.38	42.73	54.00	-11.27	AVG	
3		5399.975	49.83	4.57	54.40	74.00	-19.60	peak	
4	*	5399.975	47.35	4.57	51.92	54.00	-2.08	AVG	
5		7230.620	41.81	8.43	50.24	74.00	-23.76	peak	
6		7230.620	34.10	8.43	42.53	54.00	-11.47	AVG	

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

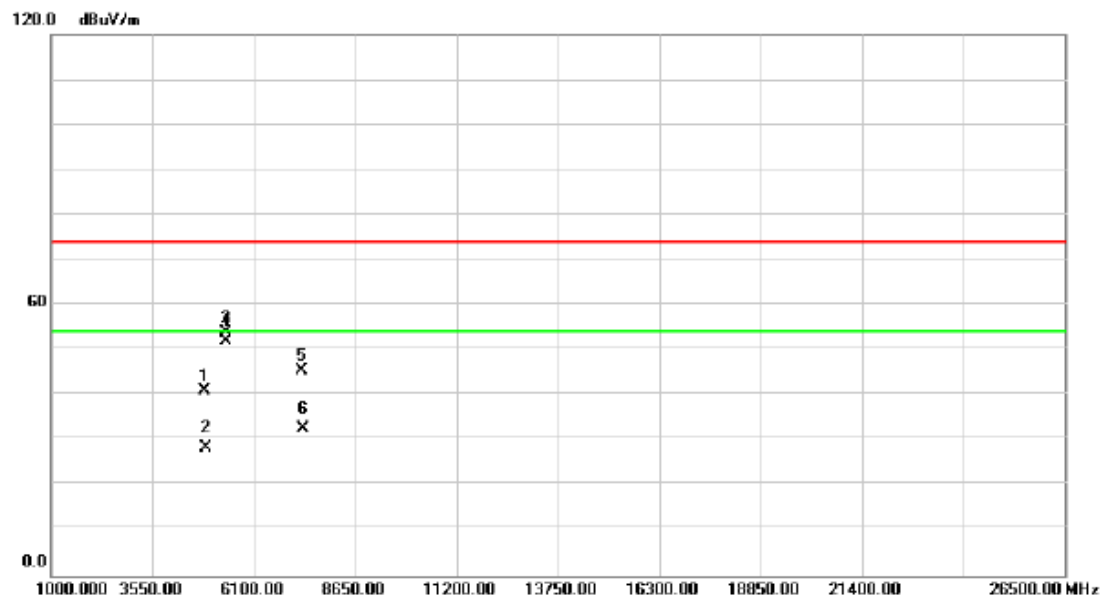
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2436.200	63.17	30.71	93.88	74.00	19.88	peak	No Limit
2	*	2436.200	60.32	30.71	91.03	54.00	37.03	AVG	No Limit

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

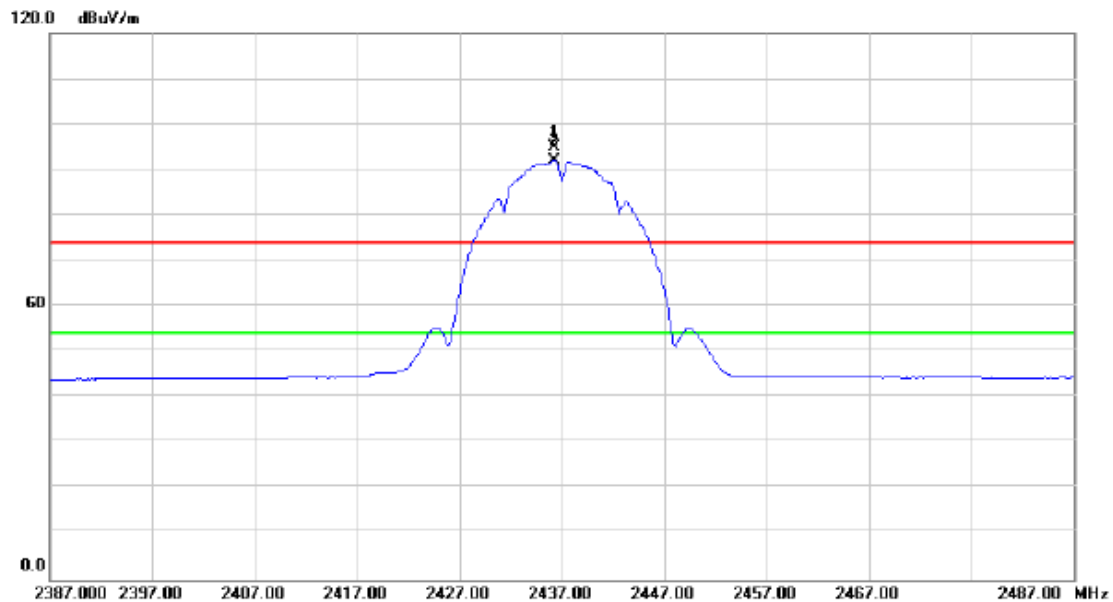
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4871.510	37.57	3.49	41.06	74.00	-32.94	peak	
2		4871.510	24.82	3.49	28.31	54.00	-25.69	AVG	
3		5399.962	49.21	4.70	53.91	74.00	-20.09	peak	
4	*	5399.962	47.25	4.70	51.95	54.00	-2.05	AVG	
5		7313.500	36.80	8.61	45.41	74.00	-28.59	peak	
6		7313.500	24.00	8.61	32.61	54.00	-21.39	AVG	

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

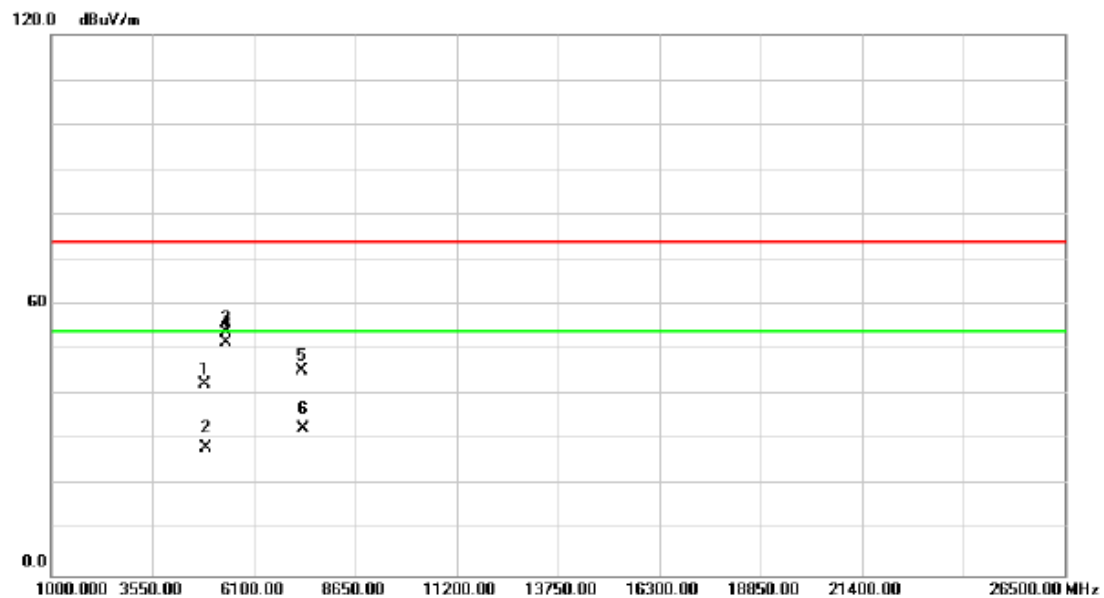
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2436.200	64.11	30.71	94.82	74.00	20.82	peak	No Limit
2	*	2436.200	61.31	30.71	92.02	54.00	38.02	AVG	No Limit

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

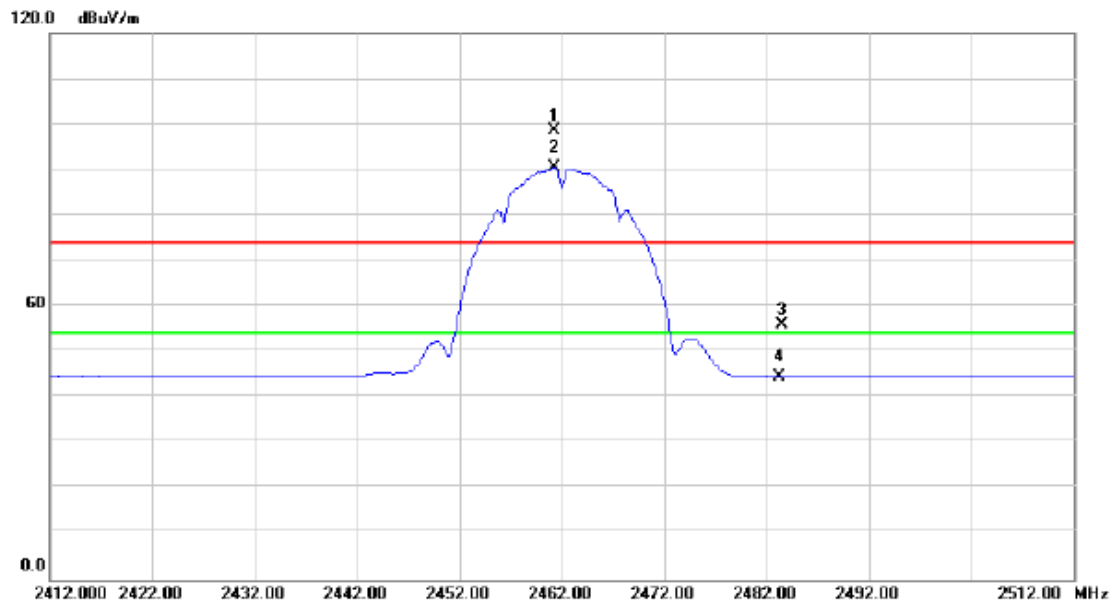
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4871.615	38.87	3.49	42.36	74.00	-31.64	peak	
2		4871.615	24.90	3.49	28.39	54.00	-25.61	AVG	
3		5399.965	49.26	4.70	53.96	74.00	-20.04	peak	
4	*	5399.965	46.93	4.70	51.63	54.00	-2.37	AVG	
5		7313.085	36.94	8.61	45.55	74.00	-28.45	peak	
6		7313.085	23.96	8.61	32.57	54.00	-21.43	AVG	

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

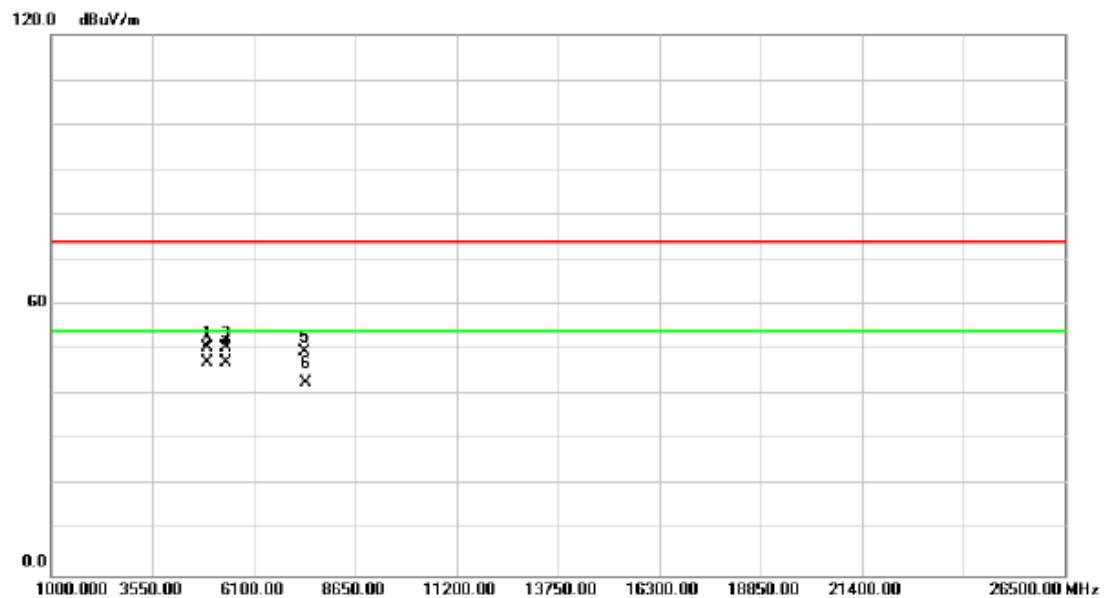
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.200	67.45	31.04	98.49	74.00	24.49	peak	No Limit
2	*	2461.200	59.49	31.04	90.53	54.00	36.53	AVG	No Limit
3		2483.500	24.95	31.11	56.06	74.00	-17.94	peak	
4		2483.500	13.48	31.11	44.59	54.00	-9.41	AVG	

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

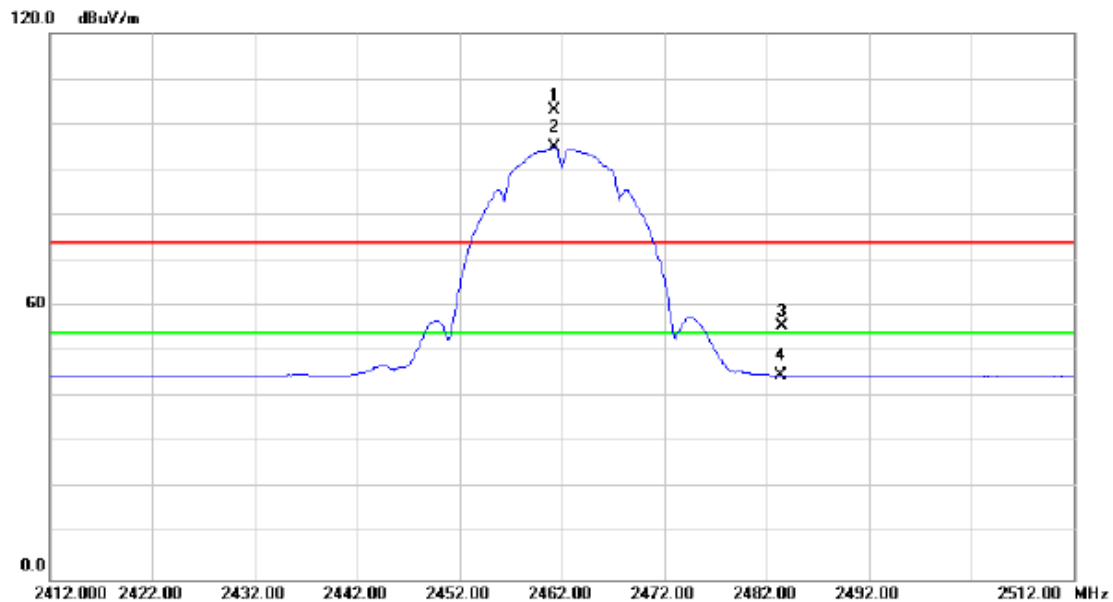
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.105	46.74	3.70	50.44	74.00	-23.56	peak	
2	*	4924.105	43.64	3.70	47.34	54.00	-6.66	AVG	
3		5399.975	45.91	4.57	50.48	74.00	-23.52	peak	
4		5399.975	42.56	4.57	47.13	54.00	-6.87	AVG	
5		7385.320	41.11	8.66	49.77	74.00	-24.23	peak	
6		7385.320	34.02	8.66	42.68	54.00	-11.32	AVG	

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

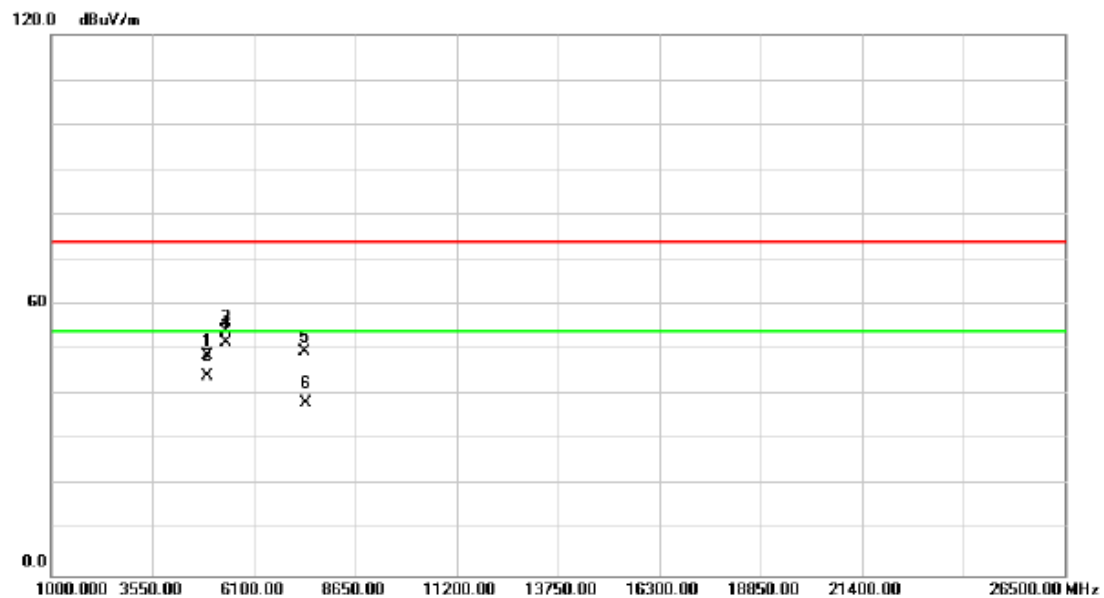
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.200	72.02	31.04	103.06	74.00	29.06	peak	No Limit
2	*	2461.200	63.99	31.04	95.03	54.00	41.03	AVG	No Limit
3		2483.500	24.67	31.11	55.78	74.00	-18.22	peak	
4		2483.500	13.70	31.11	44.81	54.00	-9.19	AVG	

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

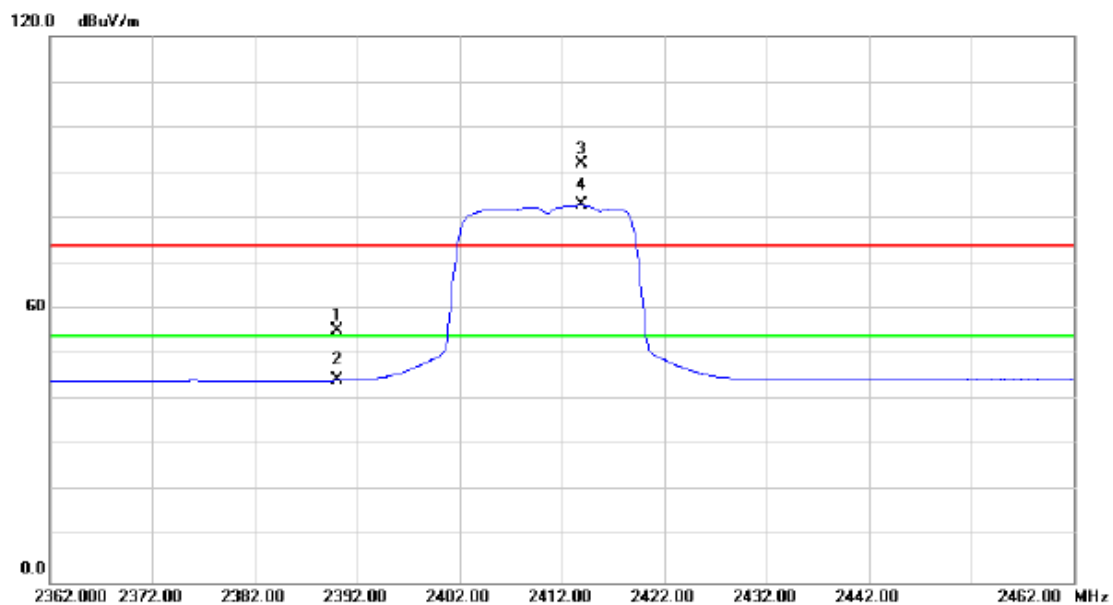
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.100	44.99	3.70	48.69	74.00	-25.31	peak	
2		4924.100	40.65	3.70	44.35	54.00	-9.65	AVG	
3		5399.970	49.50	4.57	54.07	74.00	-19.93	peak	
4	*	5399.970	47.12	4.57	51.69	54.00	-2.31	AVG	
5		7385.200	40.90	8.66	49.56	74.00	-24.44	peak	
6		7385.200	29.72	8.66	38.38	54.00	-15.62	AVG	

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

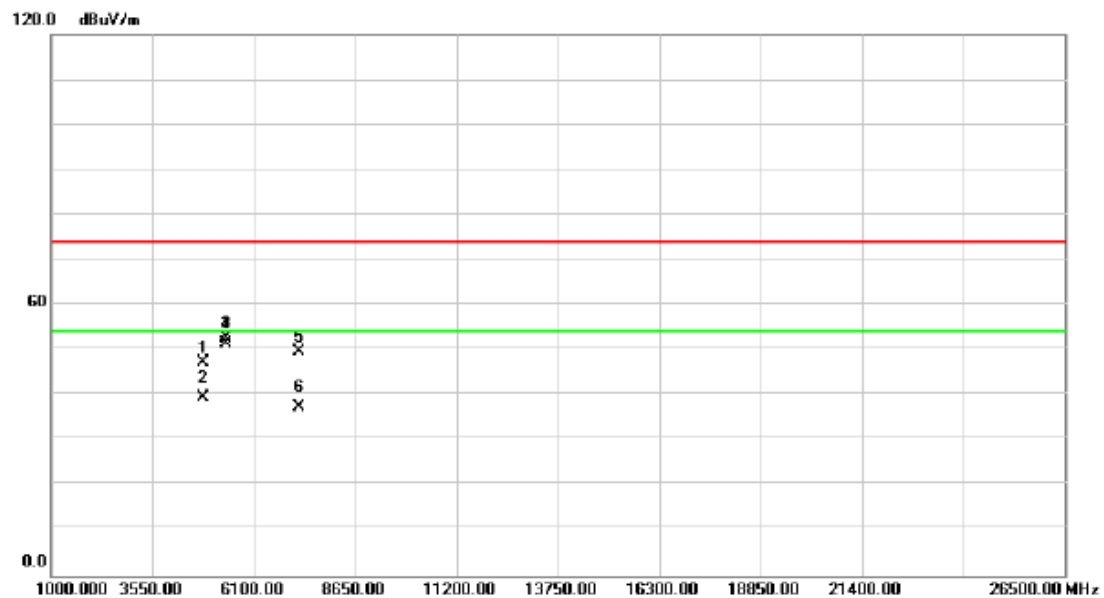
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.61	30.79	55.40	74.00	-18.60	peak	
2		2390.000	13.64	30.79	44.43	54.00	-9.57	AVG	
3	X	2413.900	61.04	30.88	91.92	74.00	17.92	peak	No Limit
4	*	2413.900	52.00	30.88	82.88	54.00	28.88	AVG	No Limit

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

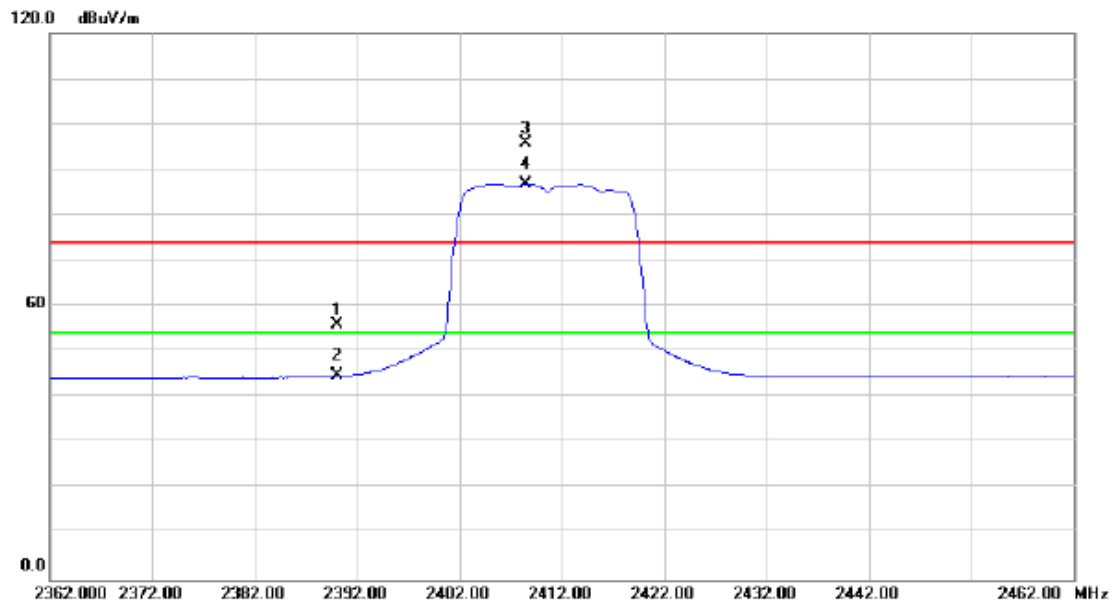
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4820.880	43.73	3.38	47.11	74.00	-26.89	peak	
2		4820.880	36.14	3.38	39.52	54.00	-14.48	AVG	
3		5399.980	48.09	4.57	52.66	74.00	-21.34	peak	
4	*	5399.980	46.82	4.57	51.39	54.00	-2.61	AVG	
5		7234.020	41.33	8.44	49.77	74.00	-24.23	peak	
6		7234.020	28.84	8.44	37.28	54.00	-16.72	AVG	

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

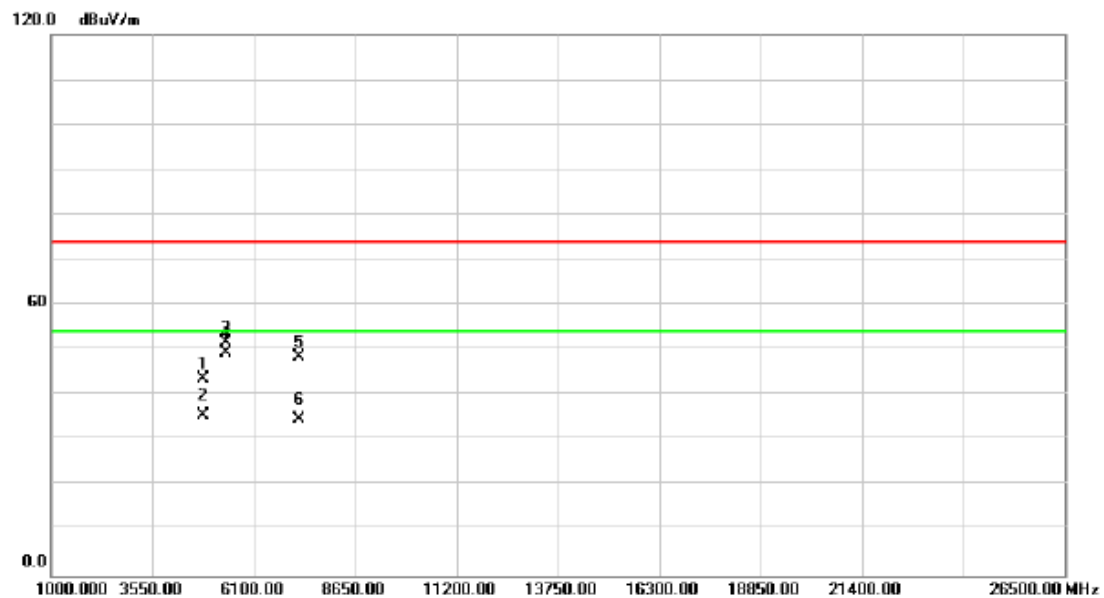
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.04	30.79	55.83	74.00	-18.17	peak	
2		2390.000	13.95	30.79	44.74	54.00	-9.26	AVG	
3	X	2408.500	65.07	30.85	95.92	74.00	21.92	peak	No Limit
4	*	2408.500	56.03	30.85	86.88	54.00	32.88	AVG	No Limit

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

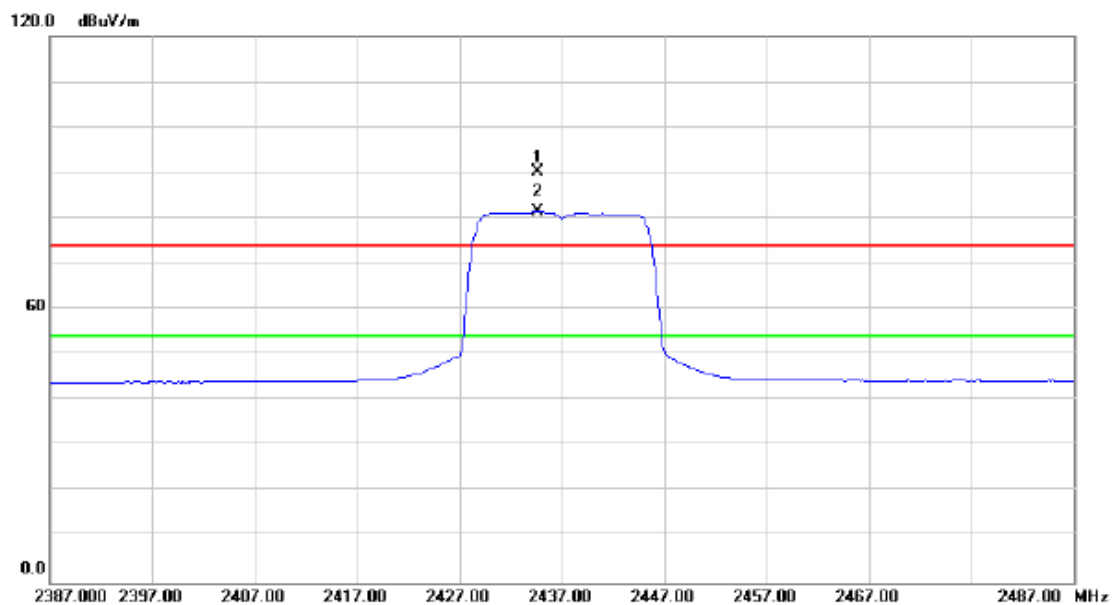
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		4820.820	40.18	3.38	43.56	74.00	-30.44	peak	
2		4820.820	32.05	3.38	35.43	54.00	-18.57	AVG	
3		5399.962	47.16	4.57	51.73	74.00	-22.27	peak	
4	*	5399.962	44.67	4.57	49.24	54.00	-4.76	AVG	
5		7234.640	40.05	8.44	48.49	74.00	-25.51	peak	
6		7234.640	26.14	8.44	34.58	54.00	-19.42	AVG	

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

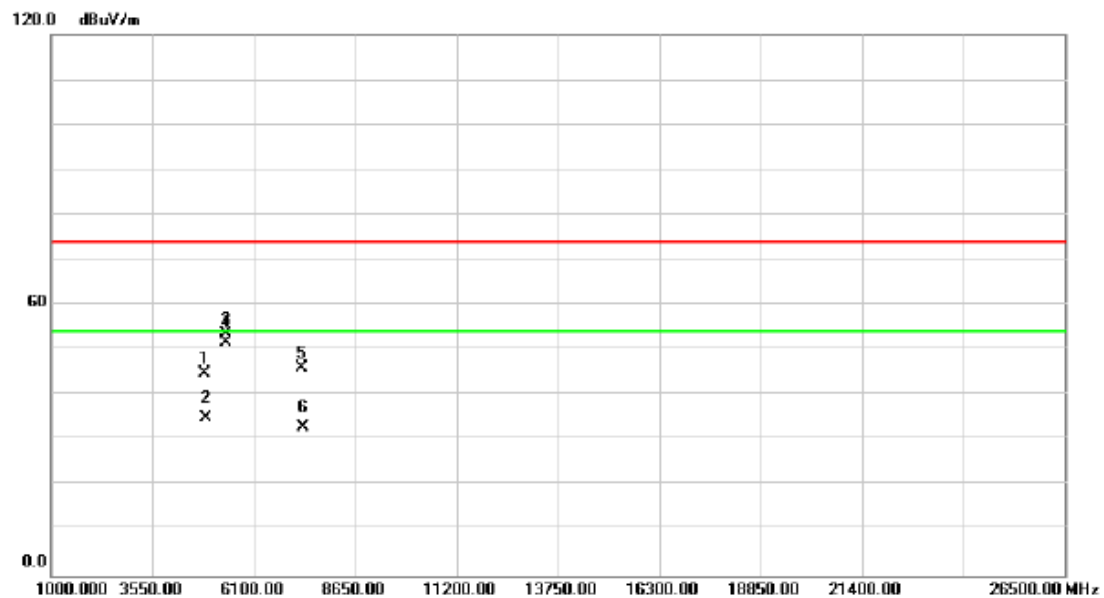
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2434.600	59.41	30.71	90.12	74.00	16.12	peak	No Limit
2	*	2434.600	50.80	30.71	81.51	54.00	27.51	AVG	No Limit

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

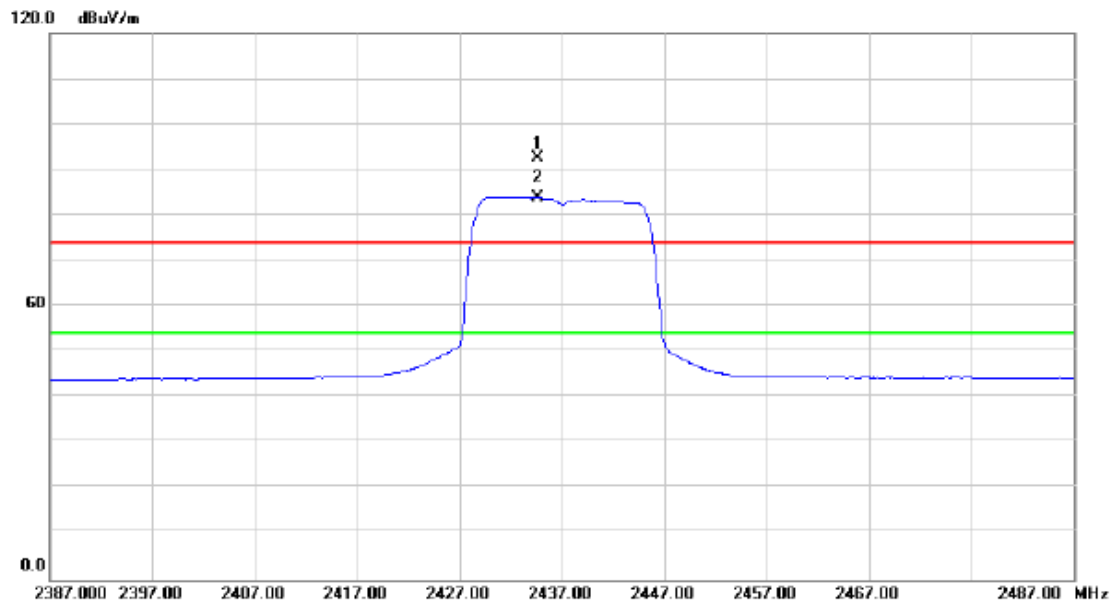
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.010	41.34	3.49	44.83	74.00	-29.17	peak	
2		4874.010	31.36	3.49	34.85	54.00	-19.15	AVG	
3		5399.970	48.97	4.70	53.67	74.00	-20.33	peak	
4	*	5399.970	47.17	4.70	51.87	54.00	-2.13	AVG	
5		7313.495	37.32	8.61	45.93	74.00	-28.07	peak	
6		7313.495	24.23	8.61	32.84	54.00	-21.16	AVG	

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

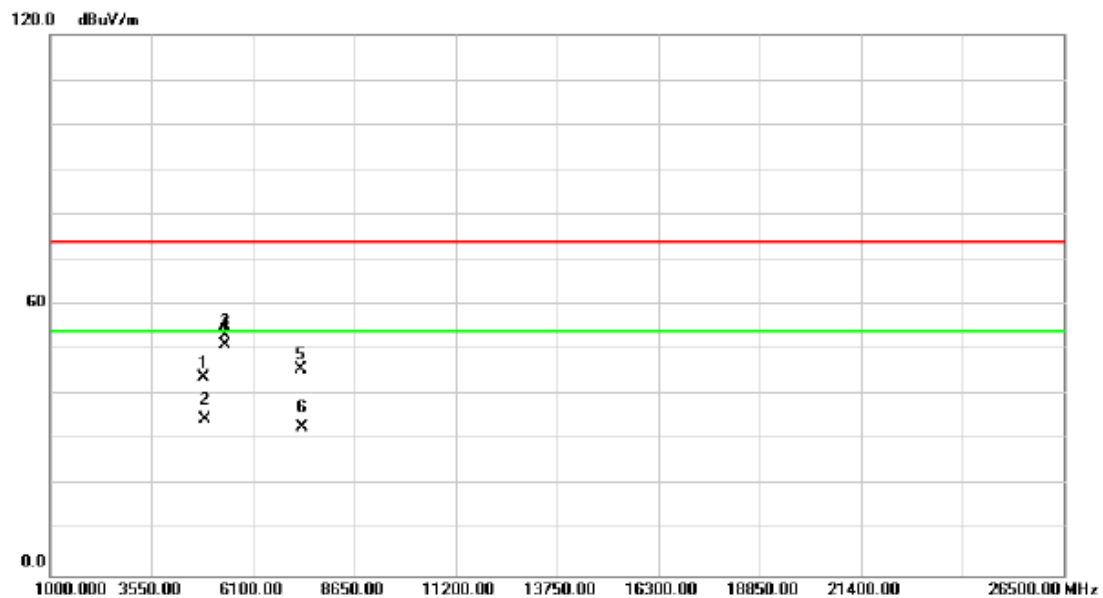
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2434.600	61.95	30.71	92.66	74.00	18.66	peak	No Limit
2	*	2434.600	53.22	30.71	83.93	54.00	29.93	AVG	No Limit

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

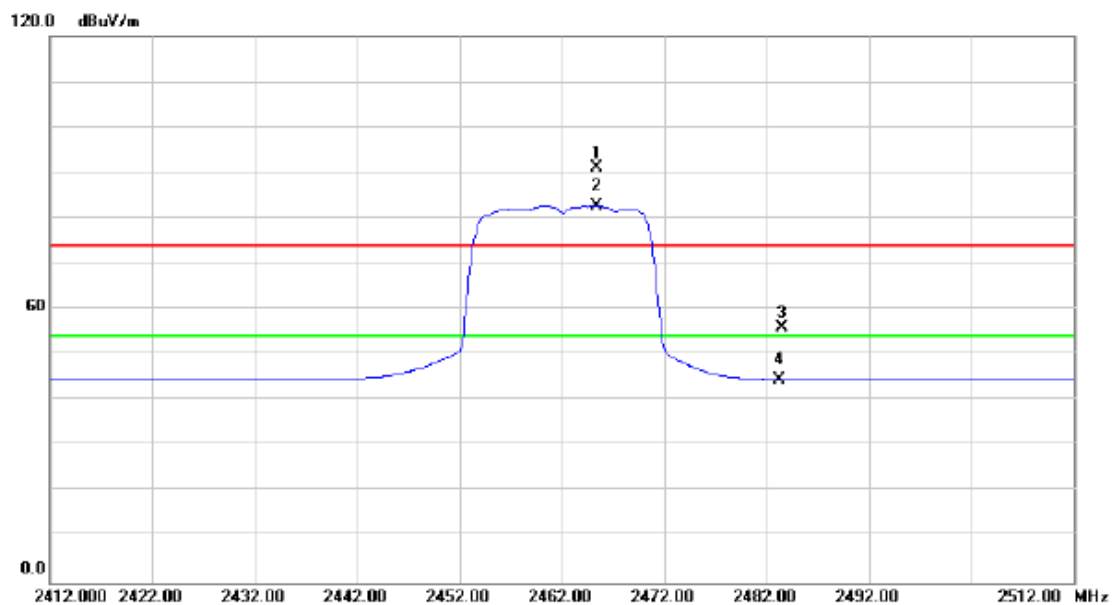
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		4874.045	40.59	3.49	44.08	74.00	-29.92	peak	
2		4874.045	31.20	3.49	34.69	54.00	-19.31	AVG	
3		5399.955	48.53	4.70	53.23	74.00	-20.77	peak	
4	*	5399.955	46.44	4.70	51.14	54.00	-2.86	AVG	
5		7308.850	37.07	8.60	45.67	74.00	-28.33	peak	
6		7308.850	24.36	8.60	32.96	54.00	-21.04	AVG	

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

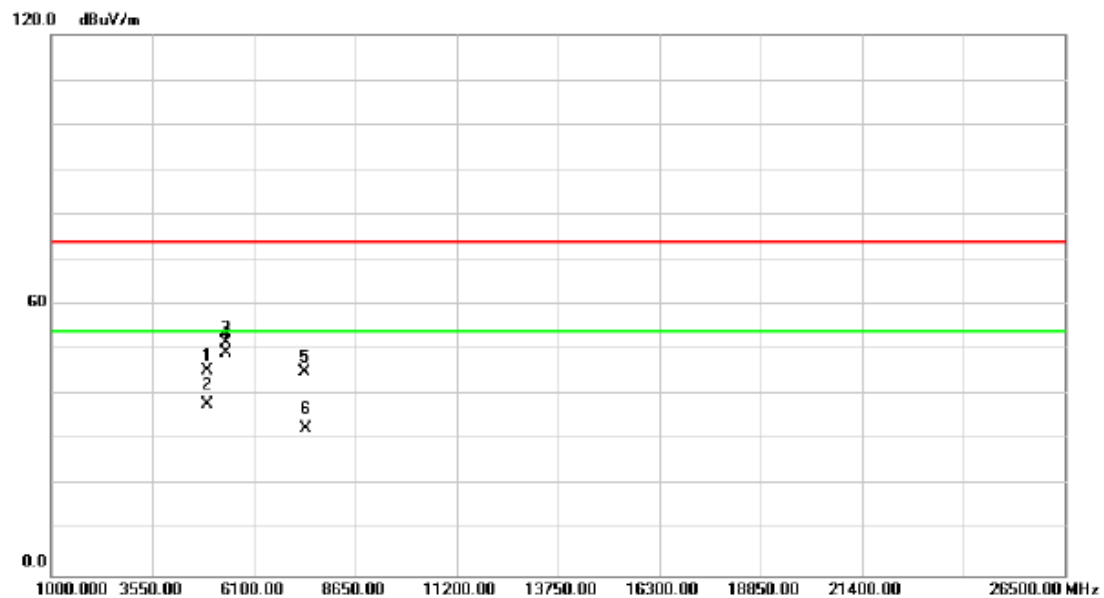
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2465.400	60.01	31.05	91.06	74.00	17.06	peak	No Limit
2	*	2465.400	51.73	31.05	82.78	54.00	28.78	AVG	No Limit
3		2483.500	24.73	31.11	55.84	74.00	-18.16	peak	
4		2483.500	13.52	31.11	44.63	54.00	-9.37	AVG	

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

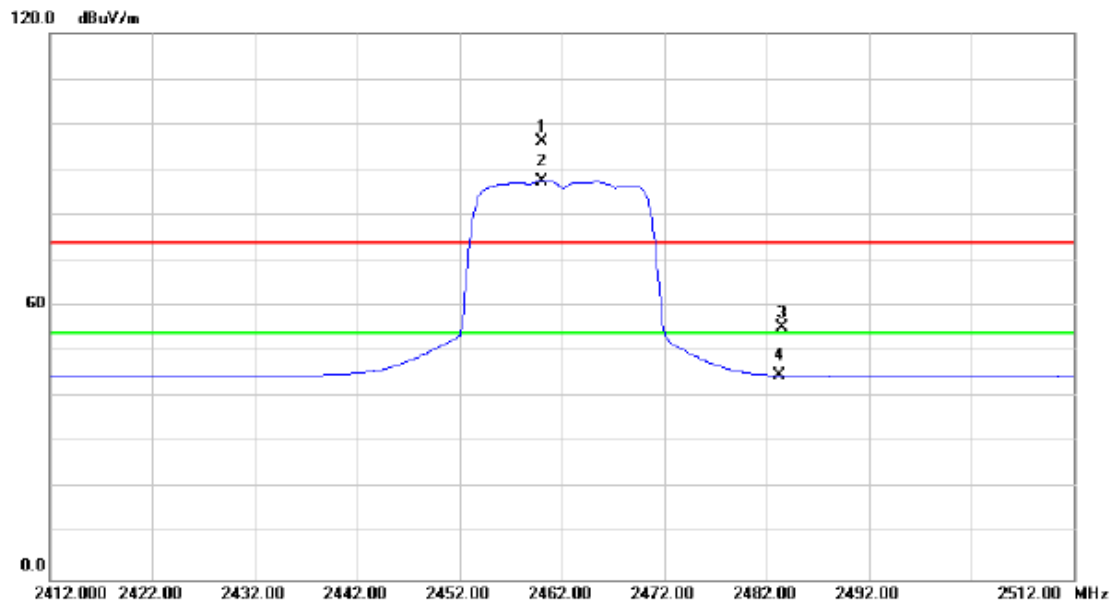
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.110	41.80	3.70	45.50	74.00	-28.50	peak	
2		4924.110	34.17	3.70	37.87	54.00	-16.13	AVG	
3		5399.970	47.20	4.57	51.77	74.00	-22.23	peak	
4	*	5399.970	44.87	4.57	49.44	54.00	-4.56	AVG	
5		7379.800	36.54	8.66	45.20	74.00	-28.80	peak	
6		7379.800	23.91	8.66	32.57	54.00	-21.43	AVG	

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

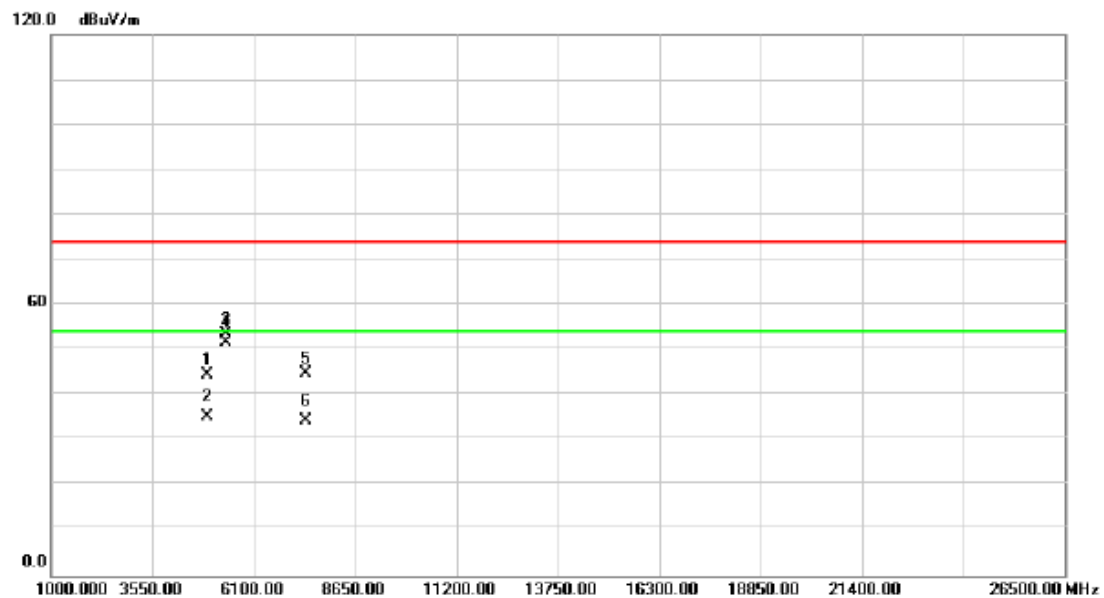
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2460.100	64.97	31.04	96.01	74.00	22.01	peak	No Limit
2	*	2460.100	56.49	31.04	87.53	54.00	33.53	AVG	No Limit
3		2483.500	24.18	31.11	55.29	74.00	-18.71	peak	
4		2483.500	13.76	31.11	44.87	54.00	-9.13	AVG	

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

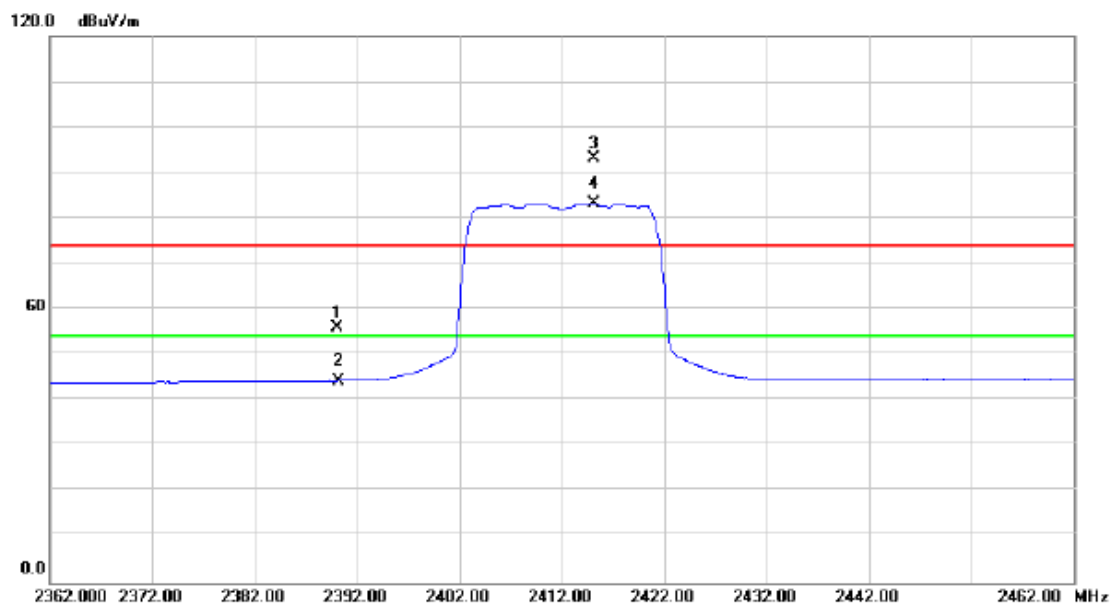
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.090	40.77	3.70	44.47	74.00	-29.53	peak	
2		4924.090	31.49	3.70	35.19	54.00	-18.81	AVG	
3		5399.970	48.88	4.57	53.45	74.00	-20.55	peak	
4	*	5399.970	47.27	4.57	51.84	54.00	-2.16	AVG	
5		7394.920	36.31	8.69	45.00	74.00	-29.00	peak	
6		7394.920	25.76	8.69	34.45	54.00	-19.55	AVG	

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

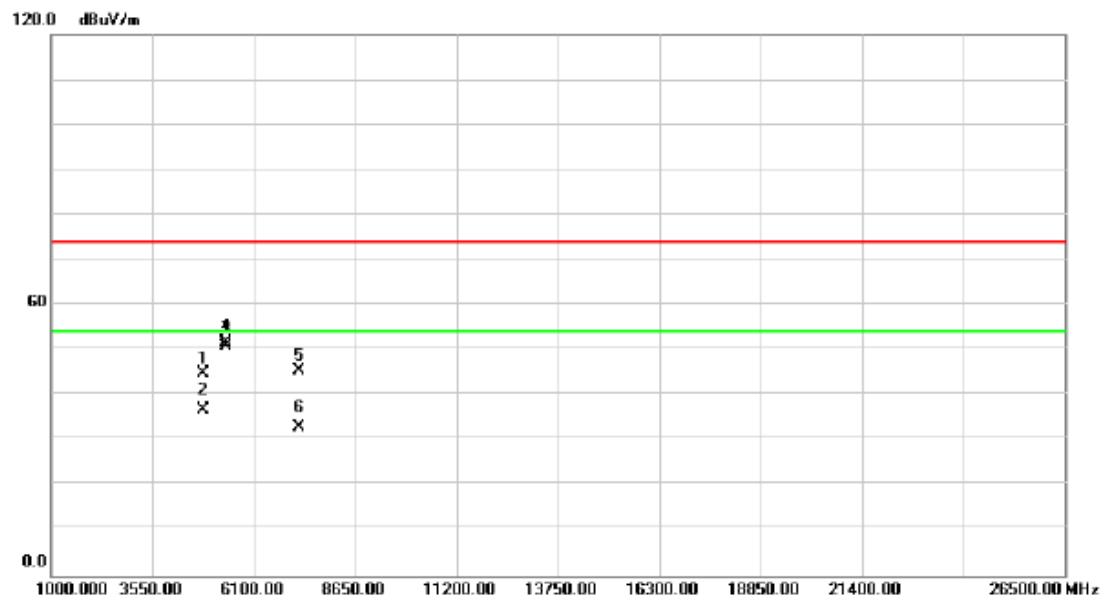
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.14	30.79	55.93	74.00	-18.07	peak	
2		2390.000	13.59	30.79	44.38	54.00	-9.62	AVG	
3	X	2415.100	62.21	30.88	93.09	74.00	19.09	peak	No Limit
4	*	2415.100	52.37	30.88	83.25	54.00	29.25	AVG	No Limit

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

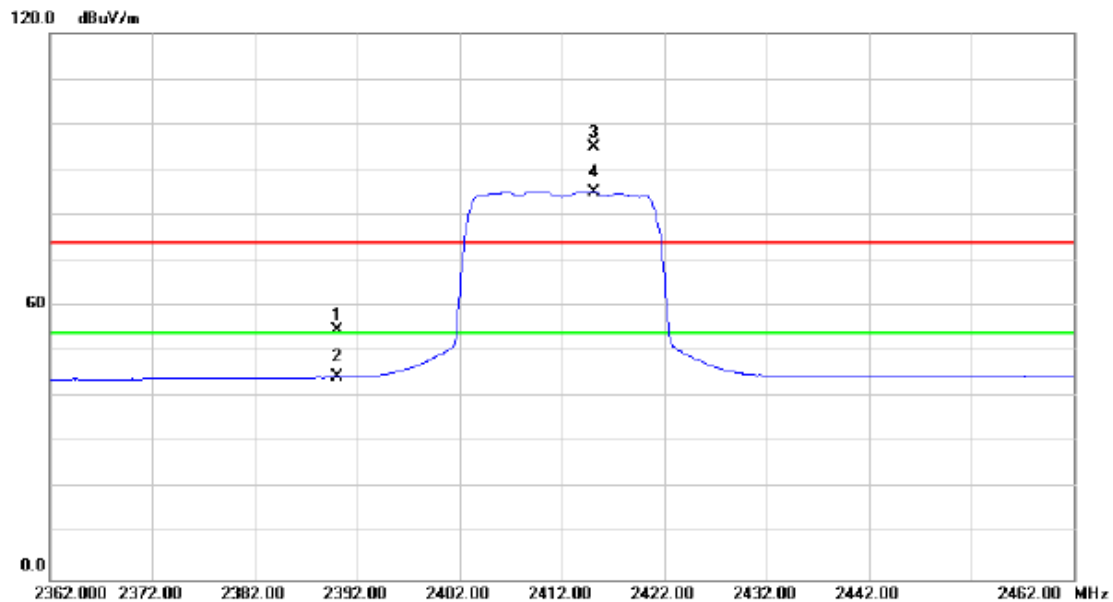
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.105	41.40	3.38	44.78	74.00	-29.22	peak	
2		4824.105	33.47	3.38	36.85	54.00	-17.15	AVG	
3		5399.985	47.22	4.57	51.79	74.00	-22.21	peak	
4	*	5399.985	46.18	4.57	50.75	54.00	-3.25	AVG	
5		7230.020	37.15	8.43	45.58	74.00	-28.42	peak	
6		7230.020	24.30	8.43	32.73	54.00	-21.27	AVG	

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

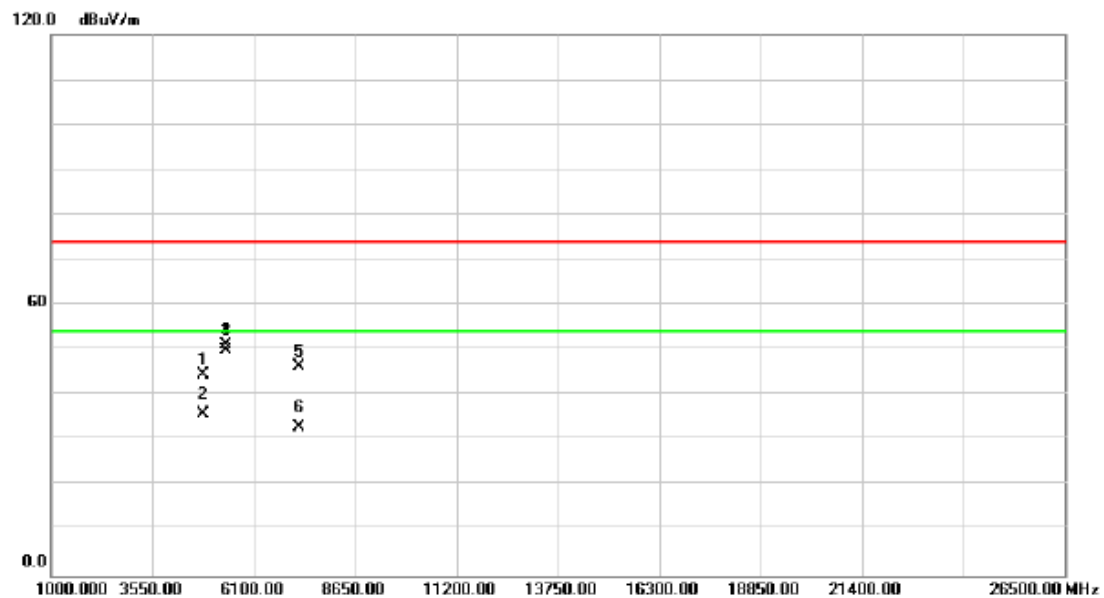
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.89	30.79	54.68	74.00	-19.32	peak	
2		2390.000	13.66	30.79	44.45	54.00	-9.55	AVG	
3	X	2415.100	64.12	30.88	95.00	74.00	21.00	peak	No Limit
4	*	2415.100	54.31	30.88	85.19	54.00	31.19	AVG	No Limit

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

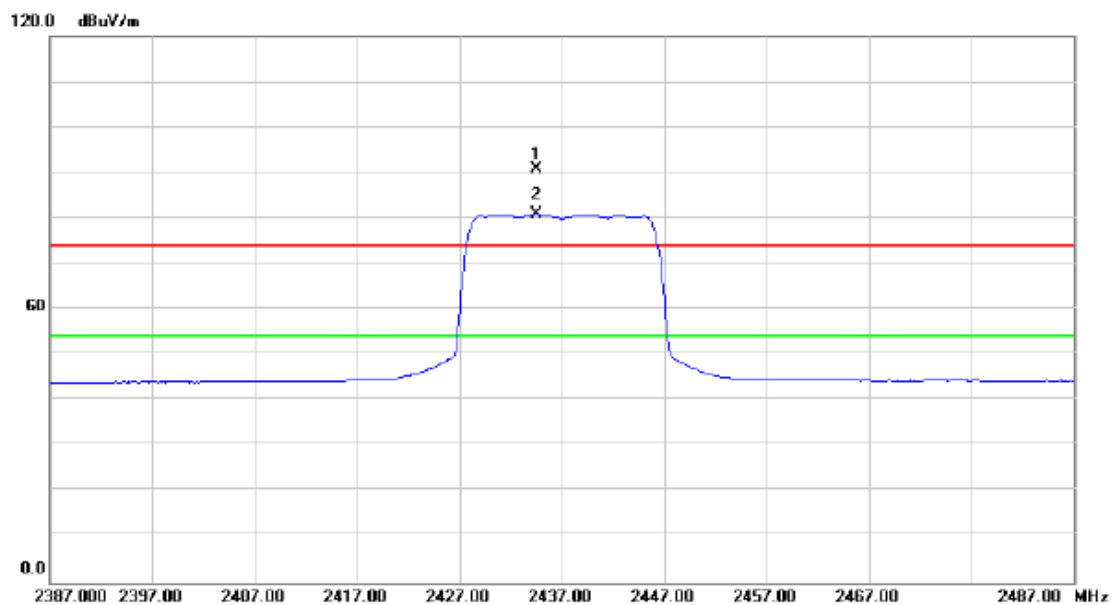
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.095	41.21	3.38	44.59	74.00	-29.41	peak	
2		4824.095	32.39	3.38	35.77	54.00	-18.23	AVG	
3		5399.977	46.55	4.57	51.12	74.00	-22.88	peak	
4	*	5399.977	45.28	4.57	49.85	54.00	-4.15	AVG	
5		7233.735	37.92	8.44	46.36	74.00	-27.64	peak	
6		7233.735	24.26	8.44	32.70	54.00	-21.30	AVG	

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

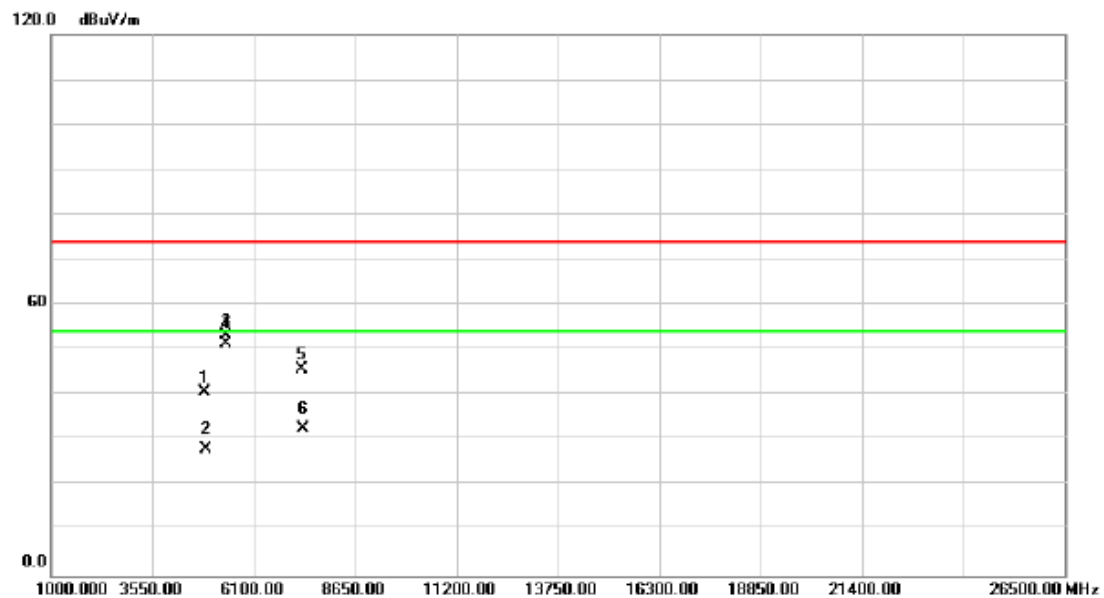
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2434.500	60.10	30.71	90.81	74.00	16.81	peak	No Limit
2	*	2434.500	50.29	30.71	81.00	54.00	27.00	AVG	No Limit

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

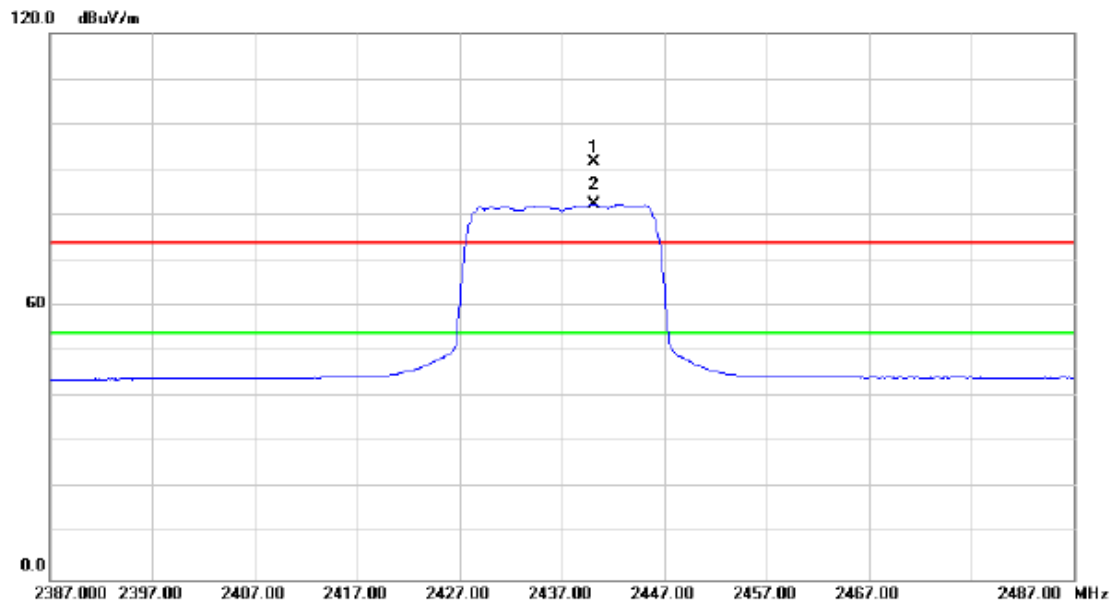
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4871.630	37.23	3.49	40.72	74.00	-33.28	peak	
2		4871.630	24.55	3.49	28.04	54.00	-25.96	AVG	
3		5399.965	48.53	4.70	53.23	74.00	-20.77	peak	
4	*	5399.965	46.63	4.70	51.33	54.00	-2.67	AVG	
5		7308.895	37.13	8.60	45.73	74.00	-28.27	peak	
6		7308.895	23.85	8.60	32.45	54.00	-21.55	AVG	

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

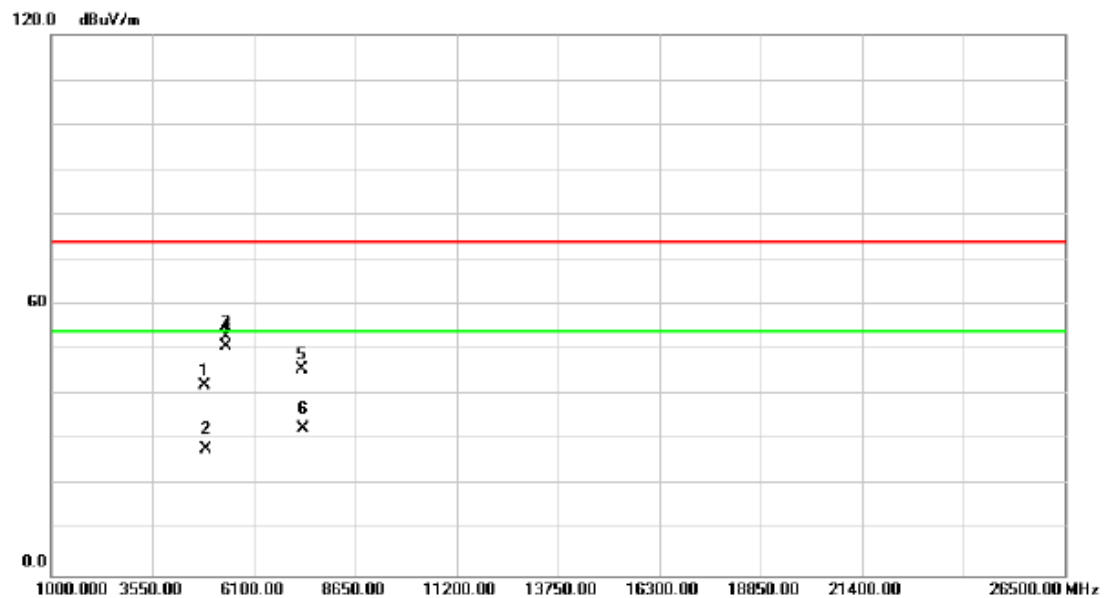
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2440.100	61.04	30.72	91.76	74.00	17.76	peak	No Limit
2	*	2440.100	51.62	30.72	82.34	54.00	28.34	AVG	No Limit

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

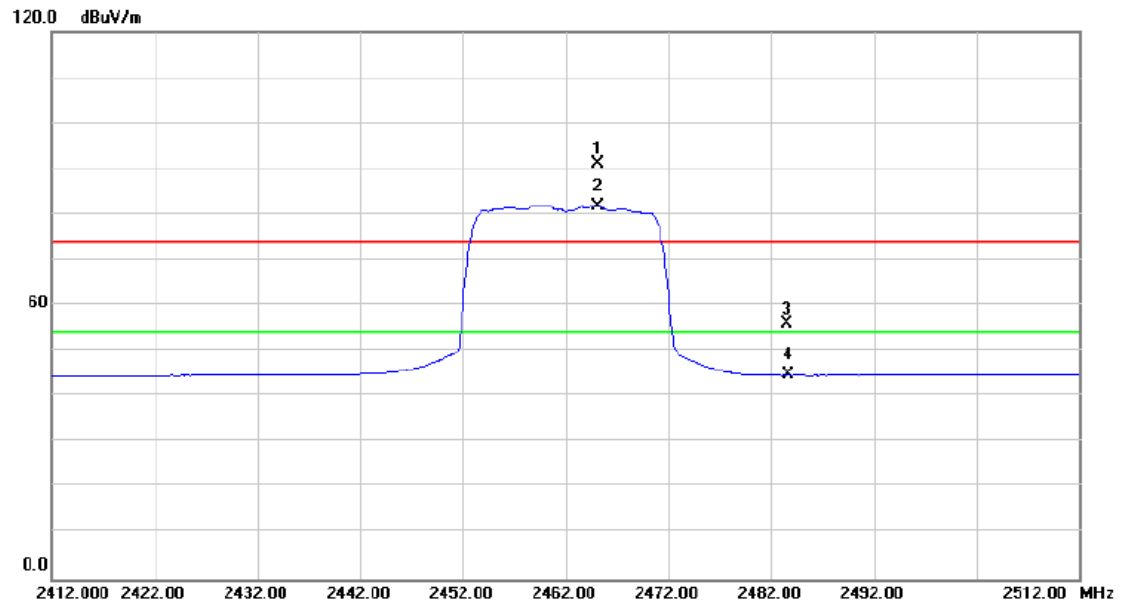
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4871.740	38.52	3.49	42.01	74.00	-31.99	peak	
2		4871.740	24.61	3.49	28.10	54.00	-25.90	AVG	
3		5399.965	48.36	4.70	53.06	74.00	-20.94	peak	
4	*	5399.965	46.13	4.70	50.83	54.00	-3.17	AVG	
5		7313.380	37.21	8.61	45.82	74.00	-28.18	peak	
6		7313.380	23.85	8.61	32.46	54.00	-21.54	AVG	

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

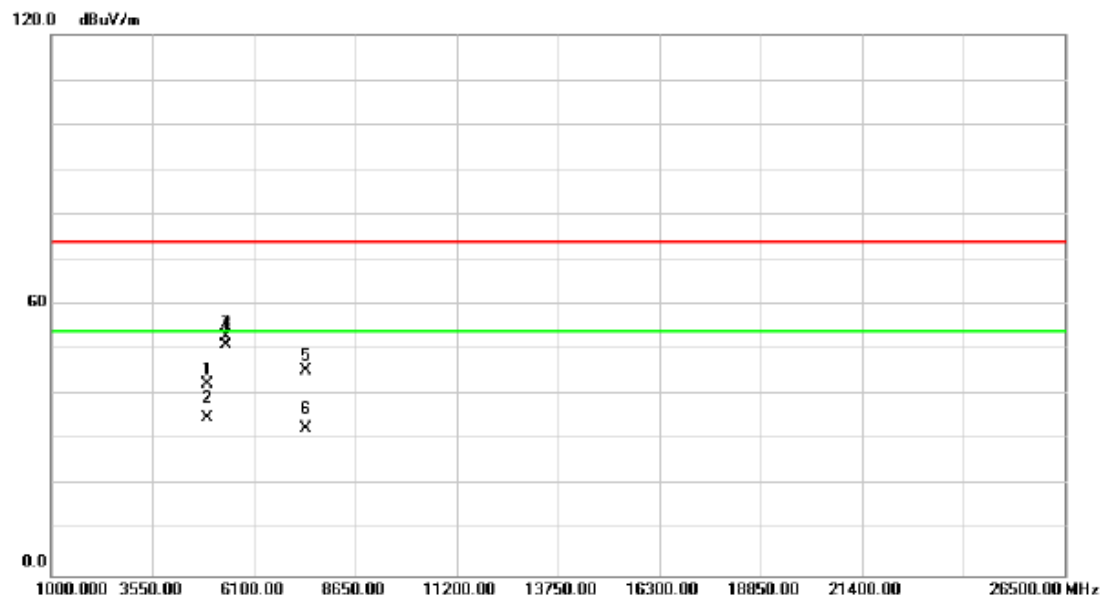
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2465.100	59.98	31.05	91.03	74.00	17.03	peak	No Limit
2	*	2465.100	50.78	31.05	81.83	54.00	27.83	AVG	No Limit
3		2483.500	24.71	31.11	55.82	74.00	-18.18	peak	
4		2483.500	13.63	31.11	44.74	54.00	-9.26	AVG	

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

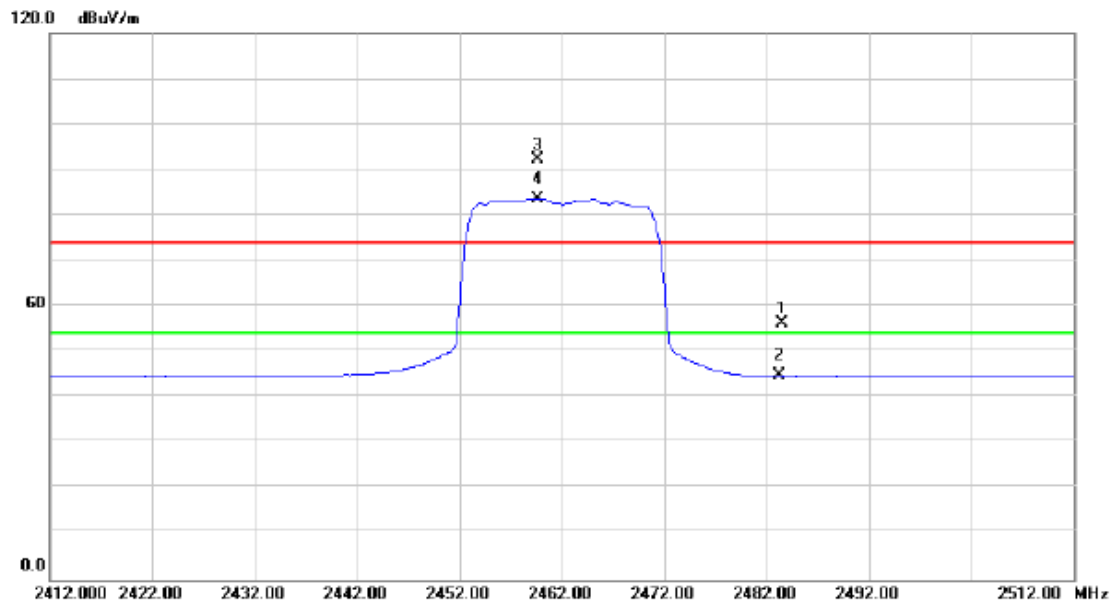
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.020	38.81	3.70	42.51	74.00	-31.49	peak	
2		4924.020	31.30	3.70	35.00	54.00	-19.00	AVG	
3		5399.980	48.50	4.57	53.07	74.00	-20.93	peak	
4	*	5399.980	46.67	4.57	51.24	54.00	-2.76	AVG	
5		7394.500	36.80	8.68	45.48	74.00	-28.52	peak	
6		7394.500	23.90	8.68	32.58	54.00	-21.42	AVG	

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

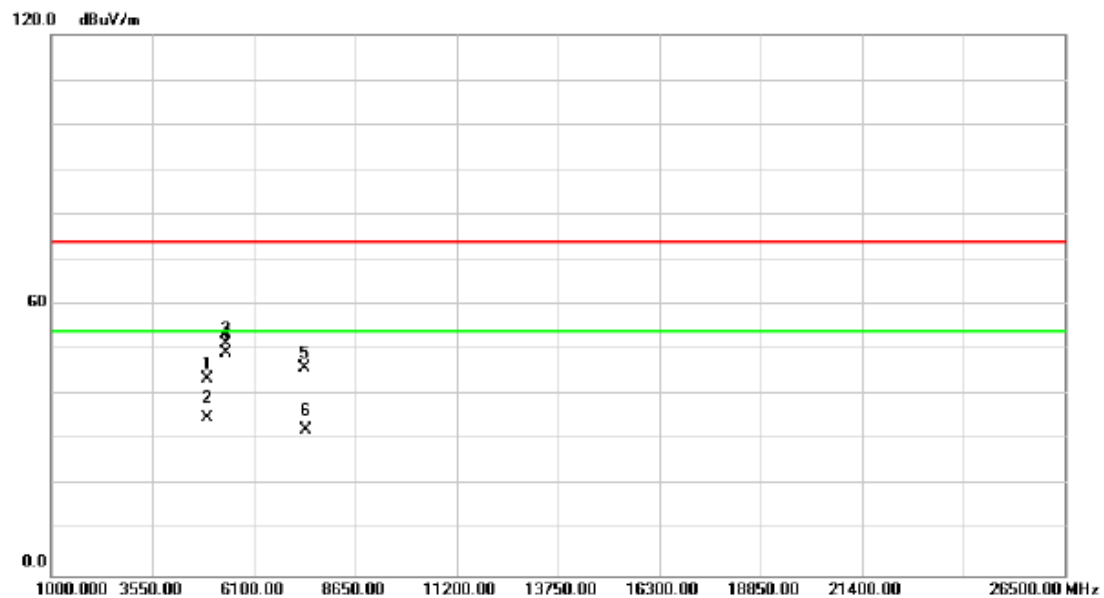
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2483.500	25.12	31.11	56.23	74.00	-17.77	peak	
2		2483.500	13.59	31.11	44.70	54.00	-9.30	AVG	
3	X	2459.600	61.26	31.04	92.30	74.00	18.30	peak	No Limit
4	*	2459.600	52.50	31.04	83.54	54.00	29.54	AVG	No Limit

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

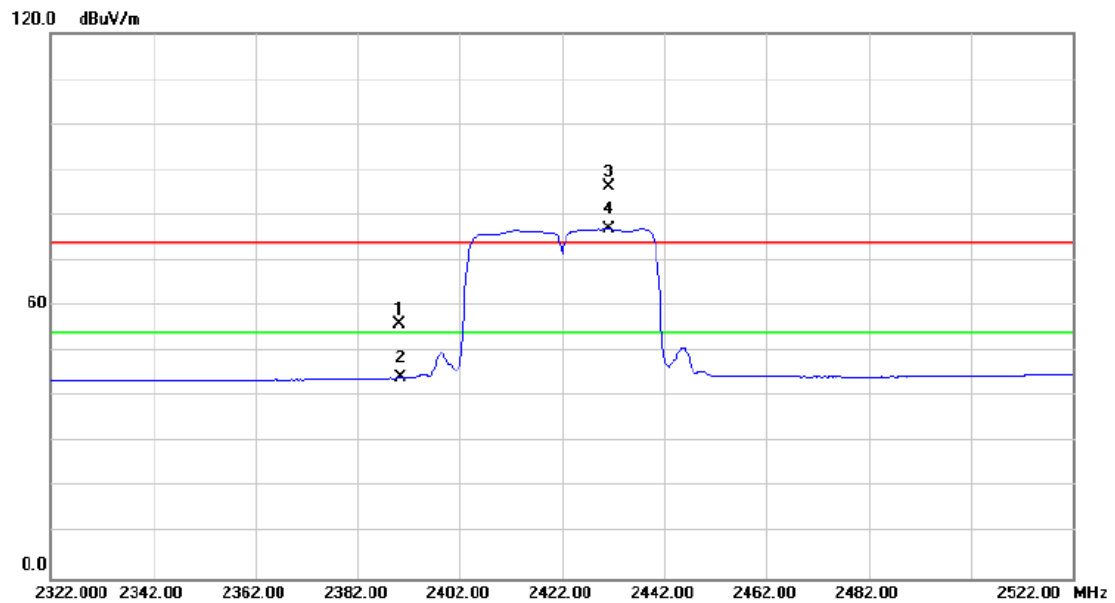
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.100	39.84	3.70	43.54	74.00	-30.46	peak	
2		4924.100	31.21	3.70	34.91	54.00	-19.09	AVG	
3		5399.965	46.78	4.57	51.35	74.00	-22.65	peak	
4	*	5399.965	44.78	4.57	49.35	54.00	-4.65	AVG	
5		7387.020	37.30	8.68	45.98	74.00	-28.02	peak	
6		7387.020	23.46	8.68	32.14	54.00	-21.86	AVG	

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

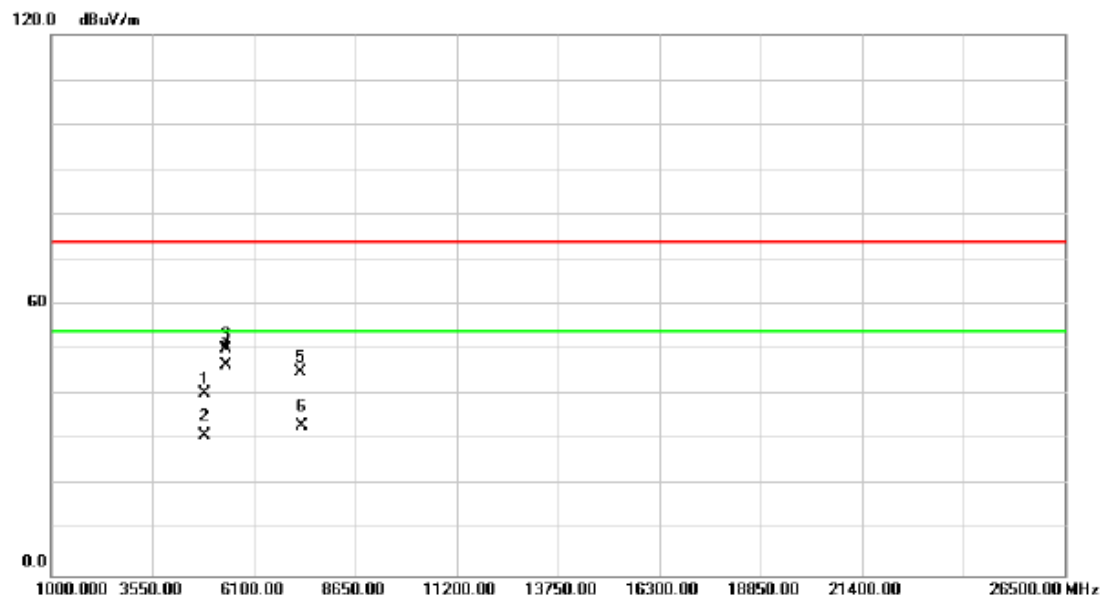
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.36	30.56	55.92	74.00	-18.08	peak	
2		2390.000	13.55	30.56	44.11	54.00	-9.89	AVG	
3	X	2431.200	55.41	30.70	86.11	74.00	12.11	peak	No Limit
4	*	2431.200	46.20	30.70	76.90	54.00	22.90	AVG	No Limit

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

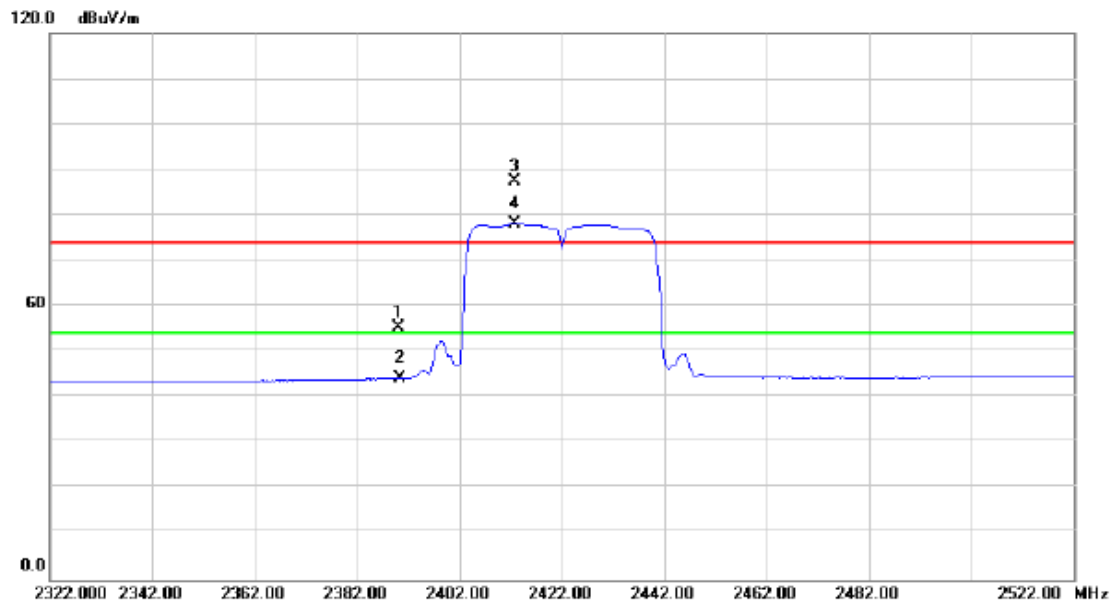
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.090	36.80	3.46	40.26	74.00	-33.74	peak	
2		4844.090	27.64	3.46	31.10	54.00	-22.90	AVG	
3		5399.976	45.55	4.57	50.12	74.00	-23.88	peak	
4	*	5399.976	42.17	4.57	46.74	54.00	-7.26	AVG	
5		7277.900	36.74	8.50	45.24	74.00	-28.76	peak	
6		7277.900	24.55	8.50	33.05	54.00	-20.95	AVG	

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

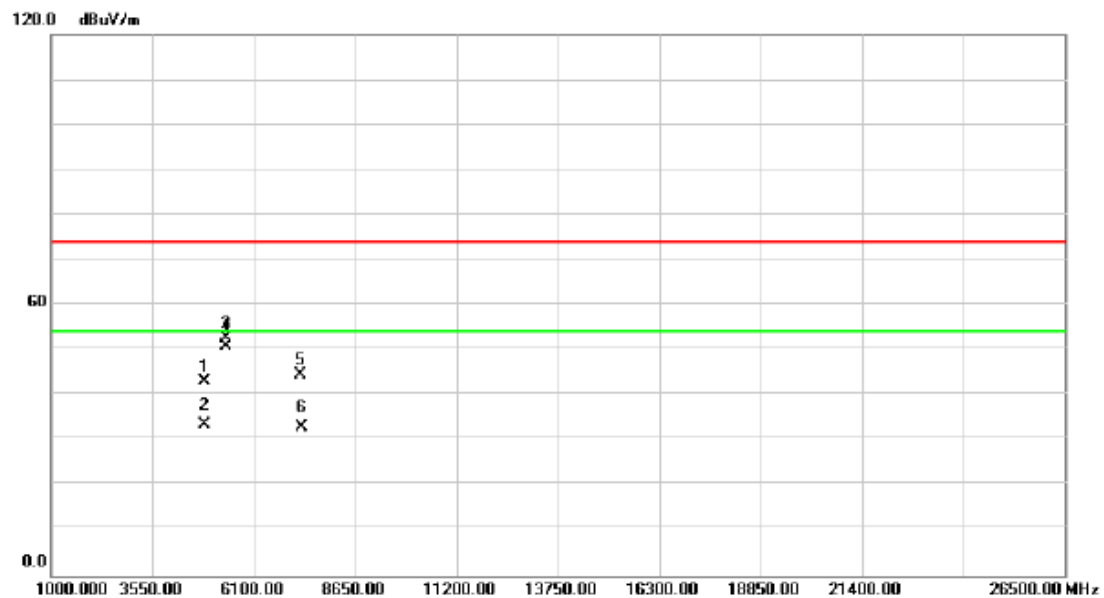
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.78	30.56	55.34	74.00	-18.66	peak	
2		2390.000	13.65	30.56	44.21	54.00	-9.79	AVG	
3	X	2412.800	56.77	30.64	87.41	74.00	13.41	peak	No Limit
4	*	2412.800	47.51	30.64	78.15	54.00	24.15	AVG	No Limit

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

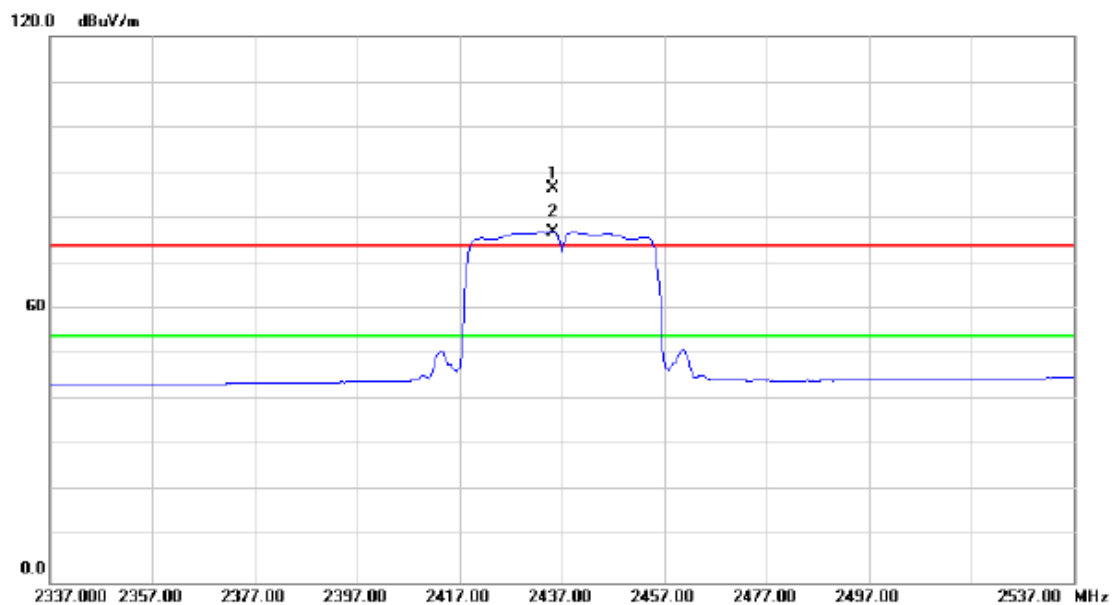
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.095	39.60	3.46	43.06	74.00	-30.94	peak	
2		4844.095	30.01	3.46	33.47	54.00	-20.53	AVG	
3		5399.971	47.96	4.57	52.53	74.00	-21.47	peak	
4	*	5399.971	46.40	4.57	50.97	54.00	-3.03	AVG	
5		7275.450	36.16	8.50	44.66	74.00	-29.34	peak	
6		7275.450	24.44	8.50	32.94	54.00	-21.06	AVG	

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

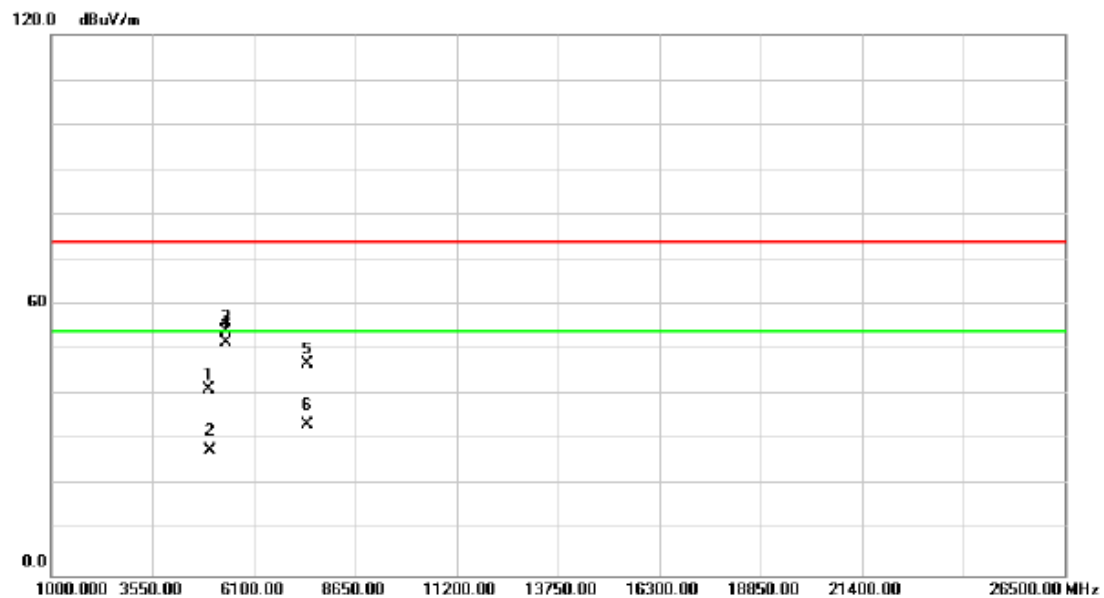
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2435.200	55.85	30.71	86.56	74.00	12.56	peak	No Limit
2	*	2435.200	46.31	30.71	77.02	54.00	23.02	AVG	No Limit

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

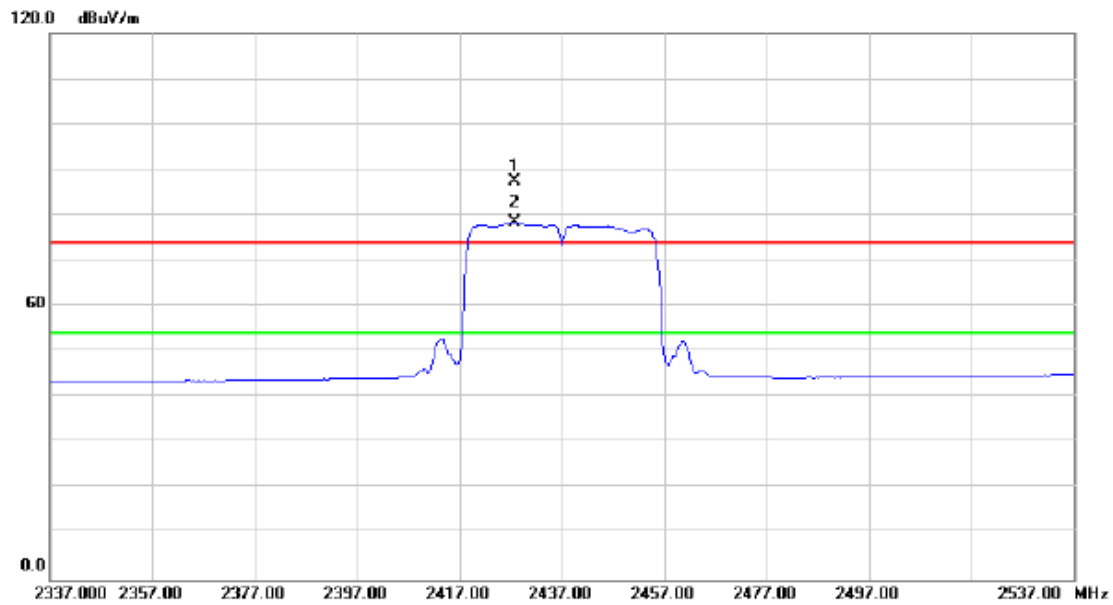
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4961.625	37.56	3.82	41.38	74.00	-32.62	peak	
2		4961.625	24.06	3.82	27.88	54.00	-26.12	AVG	
3		5399.972	49.56	4.70	54.26	74.00	-19.74	peak	
4	*	5399.972	47.12	4.70	51.82	54.00	-2.18	AVG	
5		7440.510	38.02	8.85	46.87	74.00	-27.13	peak	
6		7440.510	24.53	8.85	33.38	54.00	-20.62	AVG	

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

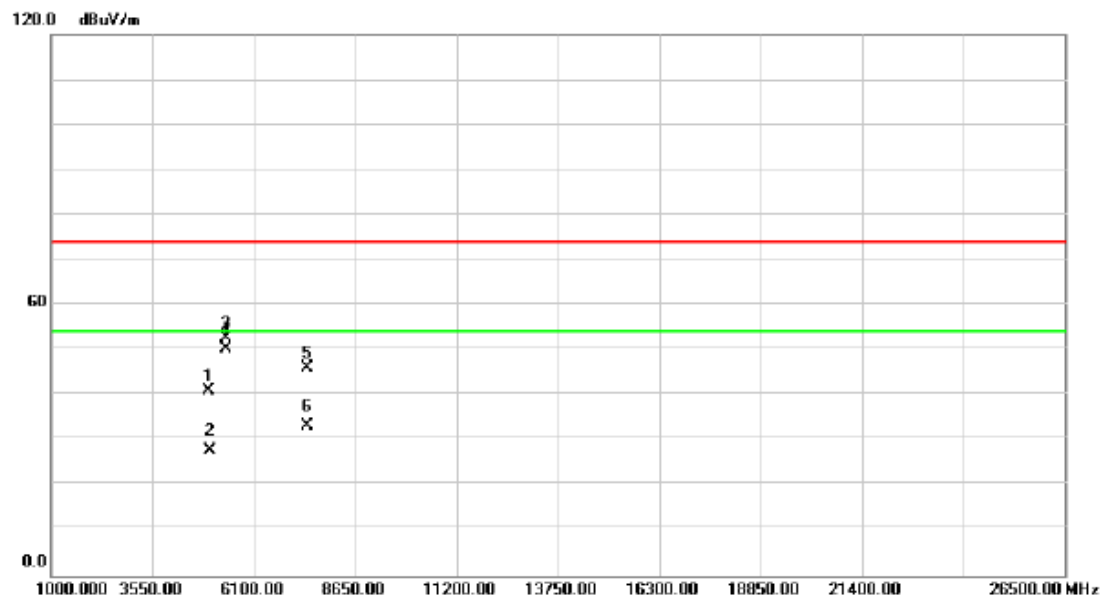
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2427.800	56.84	30.69	87.53	74.00	13.53	peak	No Limit
2	*	2427.800	47.66	30.69	78.35	54.00	24.35	AVG	No Limit

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

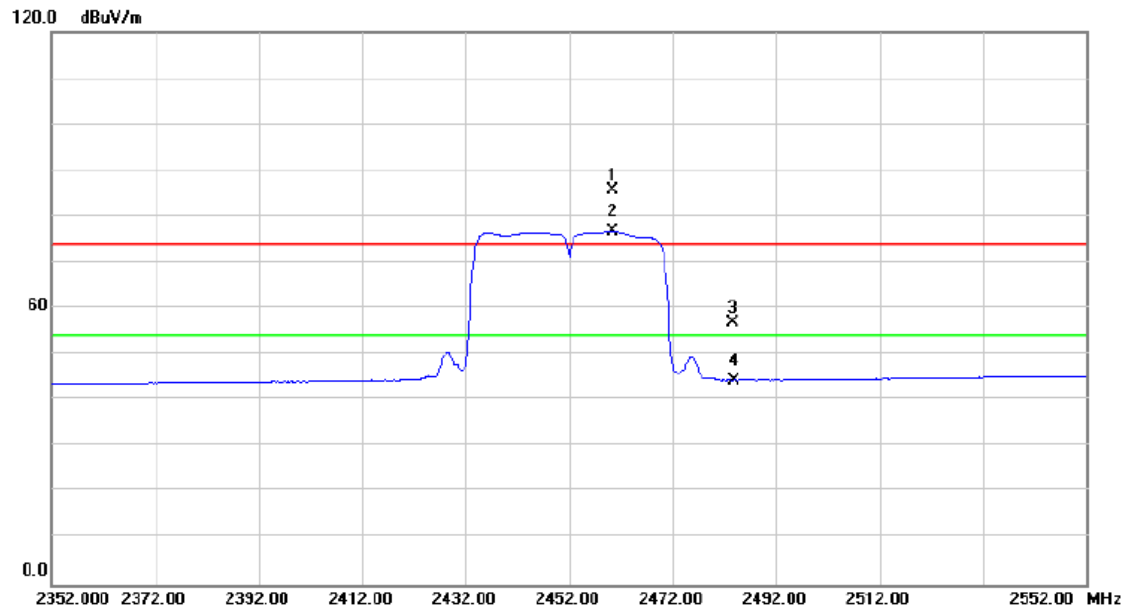
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4961.565	37.21	3.82	41.03	74.00	-32.97	peak	
2		4961.565	24.04	3.82	27.86	54.00	-26.14	AVG	
3		5399.975	47.92	4.70	52.62	74.00	-21.38	peak	
4	*	5399.975	45.58	4.70	50.28	54.00	-3.72	AVG	
5		7441.365	37.13	8.86	45.99	74.00	-28.01	peak	
6		7441.365	24.40	8.86	33.26	54.00	-20.74	AVG	

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

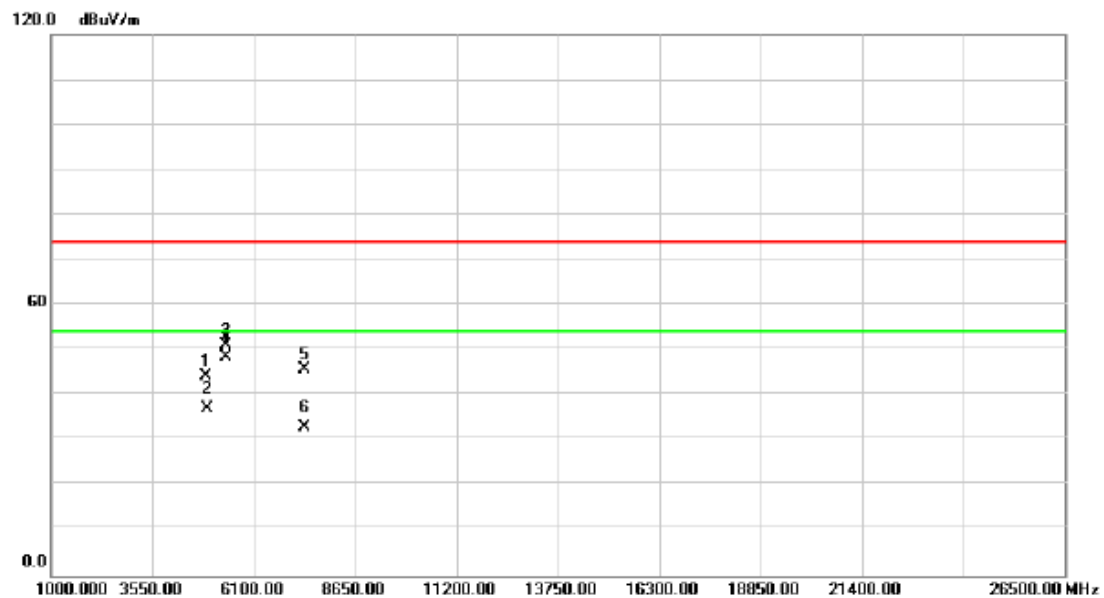
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2460.400	54.75	30.80	85.55	74.00	11.55	peak	No Limit
2	*	2460.400	45.78	30.80	76.58	54.00	22.58	AVG	No Limit
3		2483.500	26.03	30.87	56.90	74.00	-17.10	peak	
4		2483.500	13.53	30.87	44.40	54.00	-9.60	AVG	

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

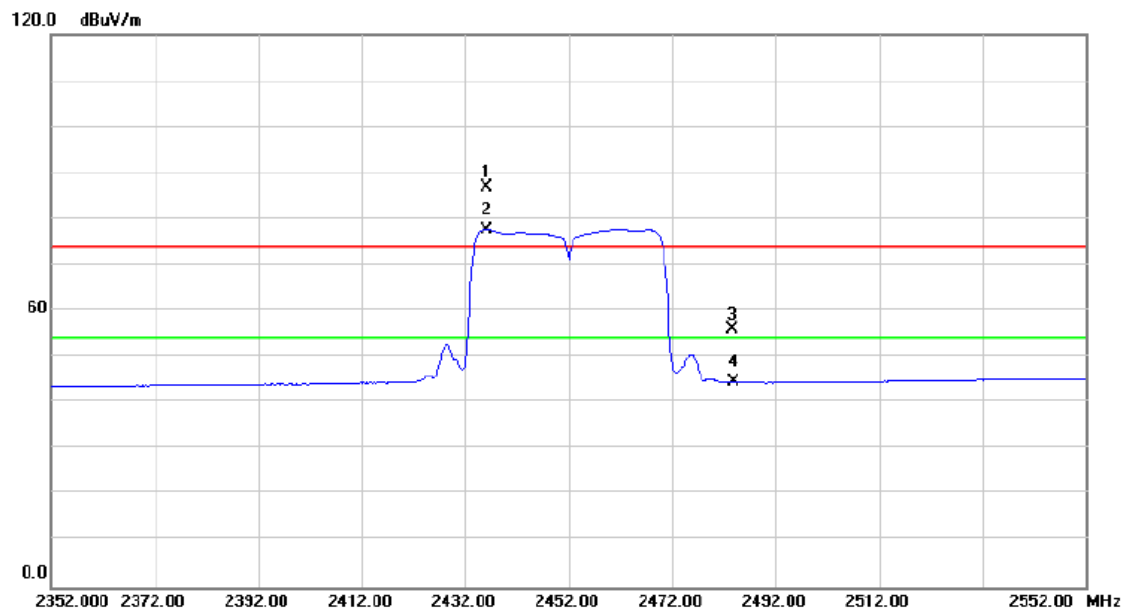
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4904.135	40.66	3.64	44.30	74.00	-29.70	peak	
2		4904.135	33.36	3.64	37.00	54.00	-17.00	AVG	
3		5399.980	46.65	4.57	51.22	74.00	-22.78	peak	
4	*	5399.980	43.82	4.57	48.39	54.00	-5.61	AVG	
5		7360.955	37.27	8.63	45.90	74.00	-28.10	peak	
6		7360.955	24.17	8.63	32.80	54.00	-21.20	AVG	

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

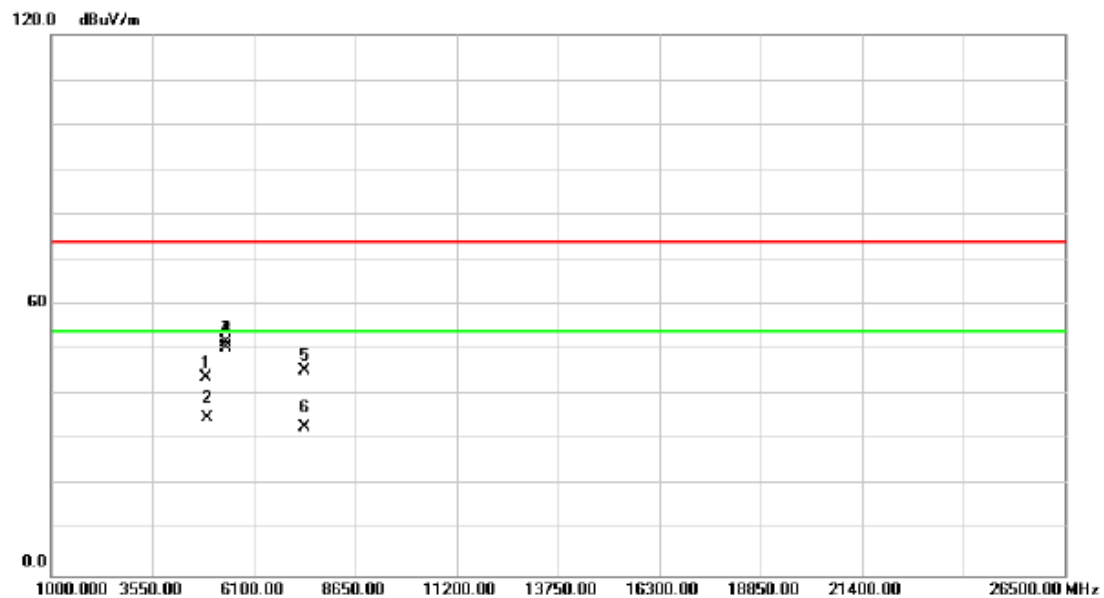
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2436.200	56.15	30.71	86.86	74.00	12.86	peak	No Limit
2	*	2436.200	46.88	30.71	77.59	54.00	23.59	AVG	No Limit
3		2483.500	25.04	30.87	55.91	74.00	-18.09	peak	
4		2483.500	13.59	30.87	44.46	54.00	-9.54	AVG	

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

Horizontal



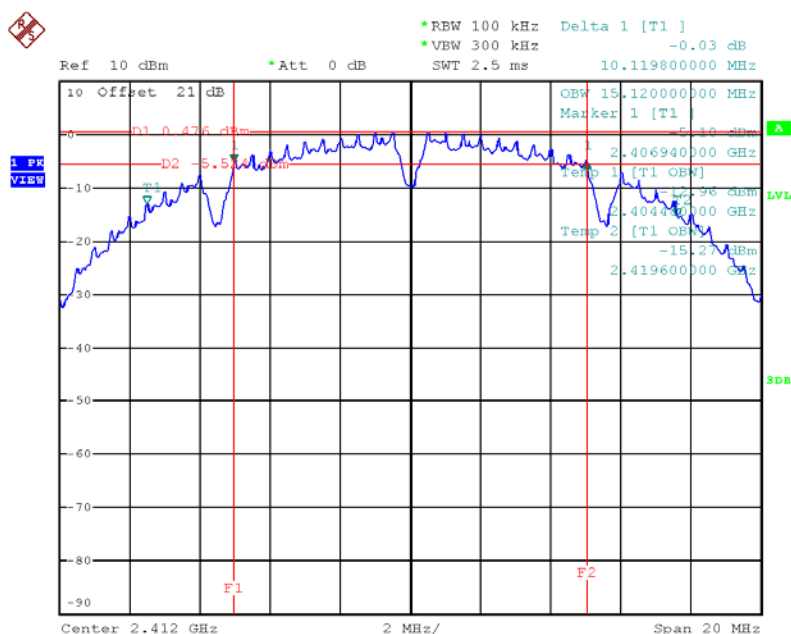
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4904.090	40.23	3.64	43.87	74.00	-30.13	peak	
2		4904.090	31.40	3.64	35.04	54.00	-18.96	AVG	
3		5399.972	47.12	4.57	51.69	74.00	-22.31	peak	
4	*	5399.972	45.88	4.57	50.45	54.00	-3.55	AVG	
5		7363.200	36.88	8.64	45.52	74.00	-28.48	peak	
6		7363.200	24.15	8.64	32.79	54.00	-21.21	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

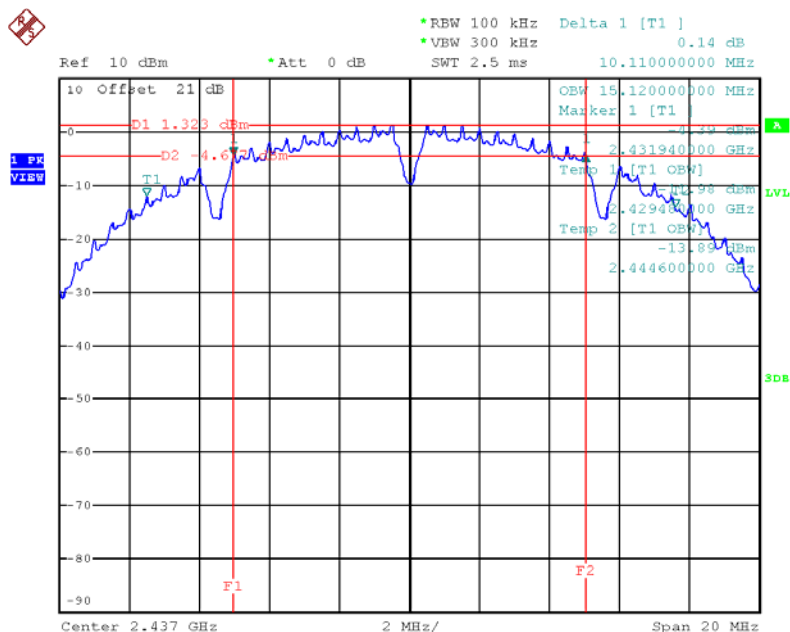
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.12	15.12	500	Complies
2437	10.11	15.12	500	Complies
2462	10.11	15.08	500	Complies

TX CH01



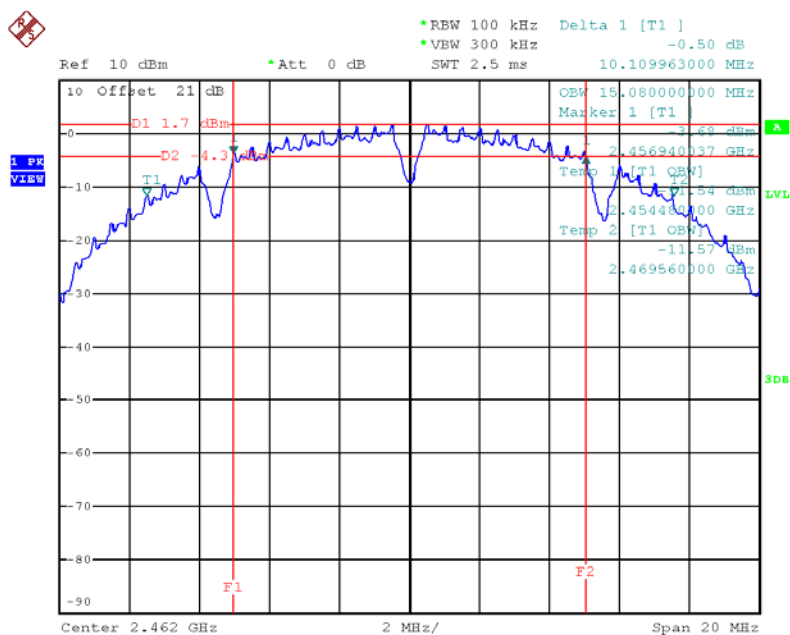
Date: 26.NOV.2015 15:35:07

TX CH06



Date: 26.NOV.2015 15:38:31

TX CH11

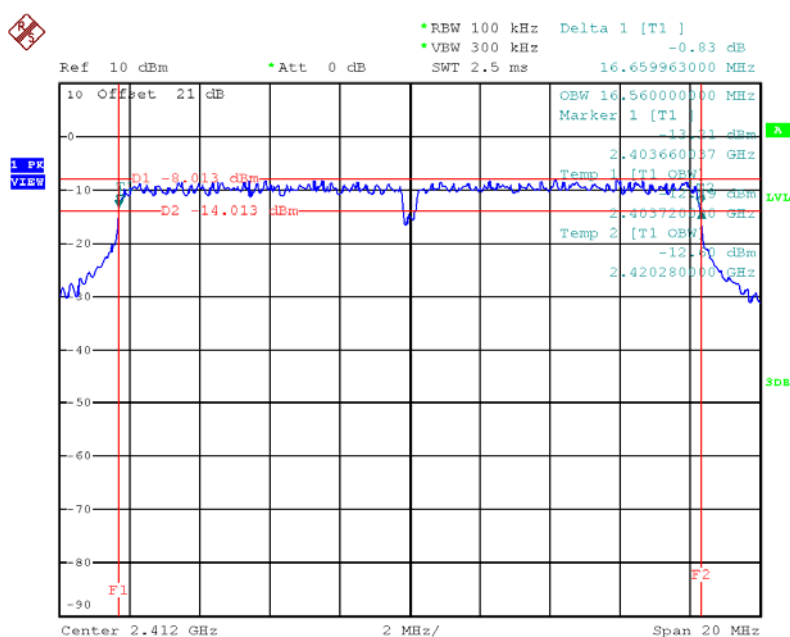


Date: 26.NOV.2015 15:40:44

Test Mode: TX G Mode_CH01/06/11

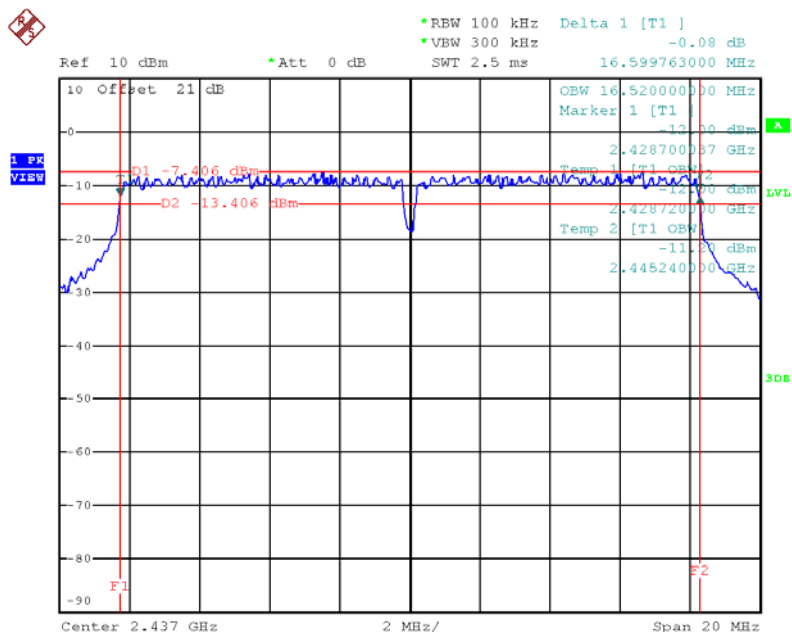
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.66	16.56	500	Complies
2437	16.60	16.52	500	Complies
2462	16.66	16.52	500	Complies

TX CH01



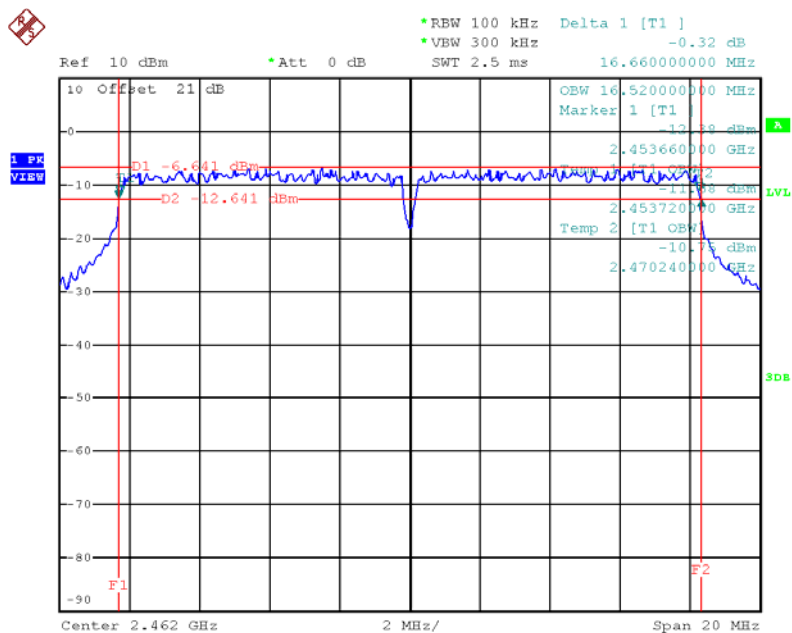
Date: 26.NOV.2015 15:42:37

TX CH06



Date: 26.NOV.2015 15:44:41

TX CH11

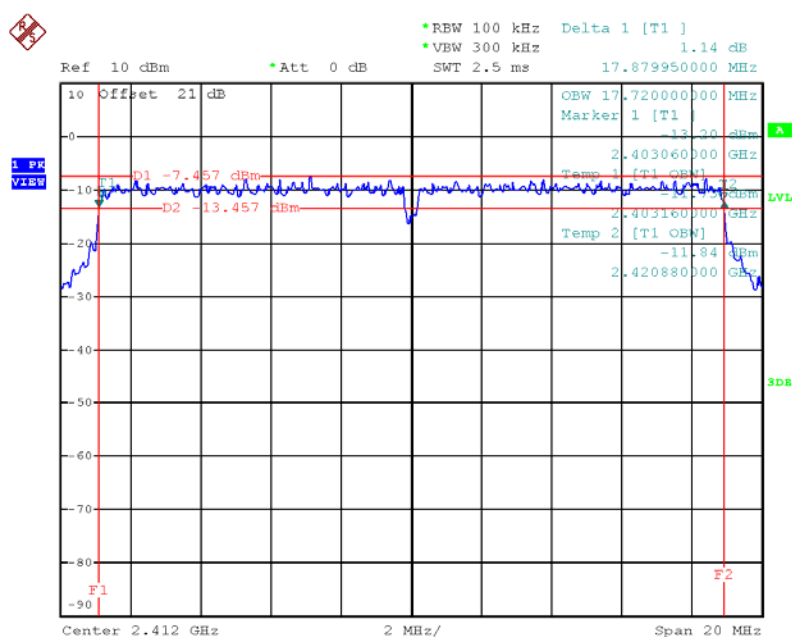


Date: 26.NOV.2015 15:45:57

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

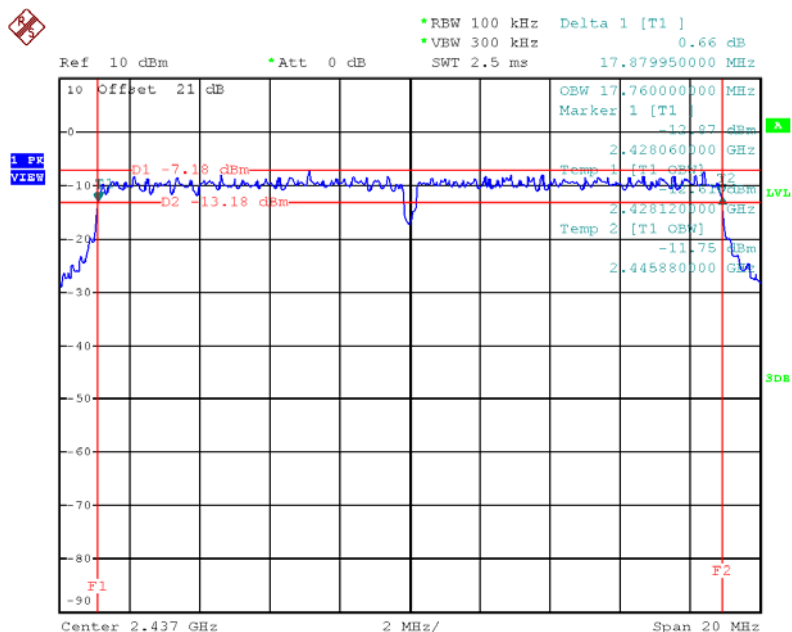
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.88	17.72	500	Complies
2437	17.88	17.76	500	Complies
2462	17.88	17.76	500	Complies

TX CH01



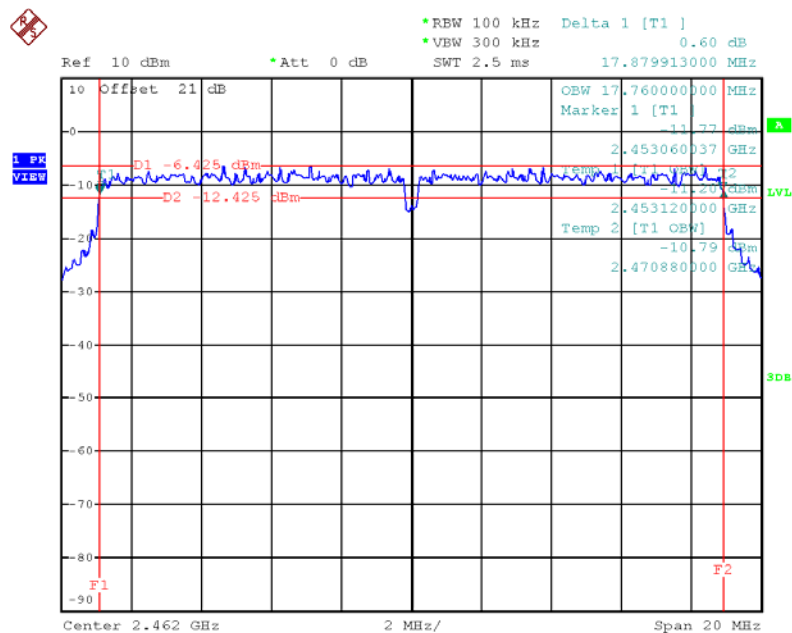
Date: 26.NOV.2015 15:47:55

TX CH06



Date: 26.NOV.2015 15:50:07

TX CH11

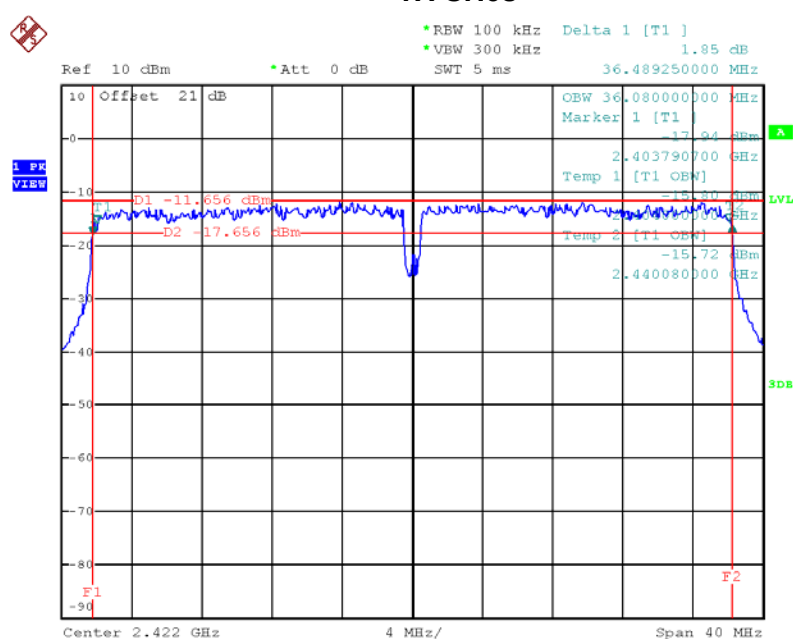


Date: 26.NOV.2015 15:51:40

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

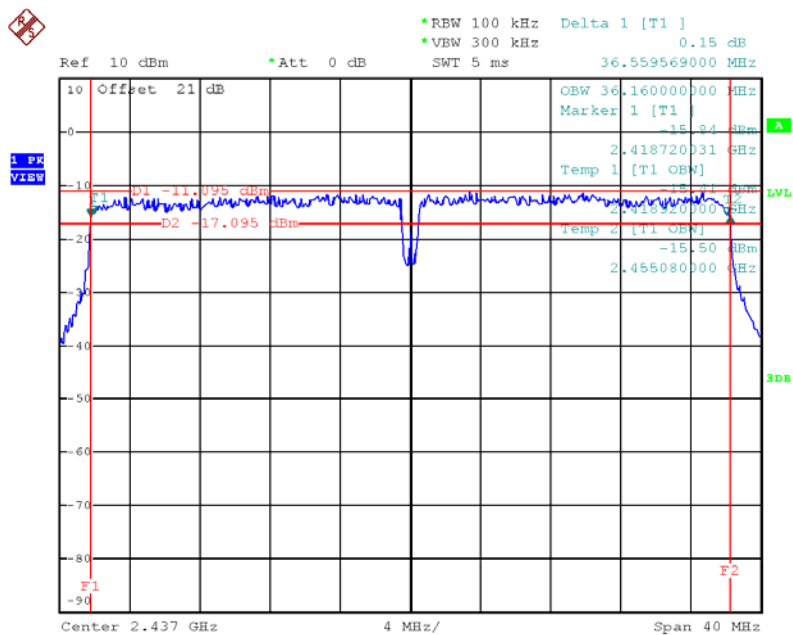
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.49	36.08	500	Complies
2437	36.56	36.16	500	Complies
2452	36.56	36.08	500	Complies

TX CH03



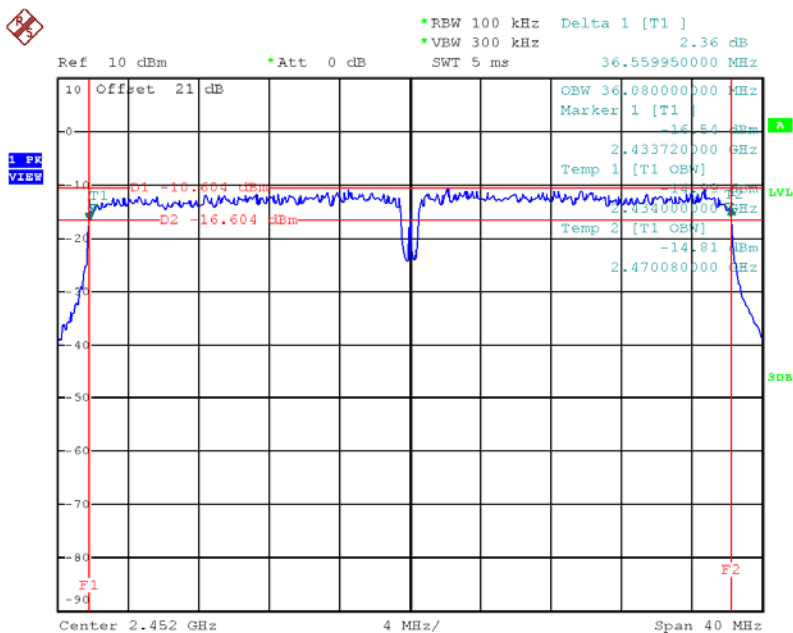
Date: 26.NOV.2015 15:53:18

TX CH06



Date: 26.NOV.2015 15:57:04

TX CH09



Date: 26.NOV.2015 15:58:48

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	16.62	0.0459	30.00	1.00	Complies
2437	16.75	0.0473	30.00	1.00	Complies
2462	17.04	0.0506	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	18.32	0.0679	30.00	1.00	Complies
2437	19.02	0.0798	30.00	1.00	Complies
2462	19.47	0.0885	30.00	1.00	Complies

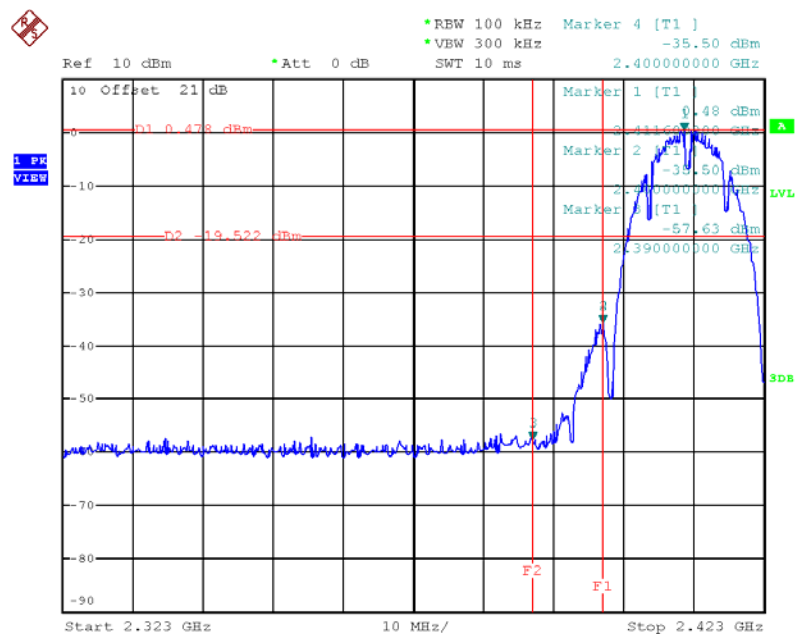
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.42	0.0695	30.00	1.00	Complies
2437	18.77	0.0753	30.00	1.00	Complies
2462	19.18	0.0828	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	17.71	0.0590	30.00	1.00	Complies
2437	17.83	0.0607	30.00	1.00	Complies
2452	18.01	0.0632	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

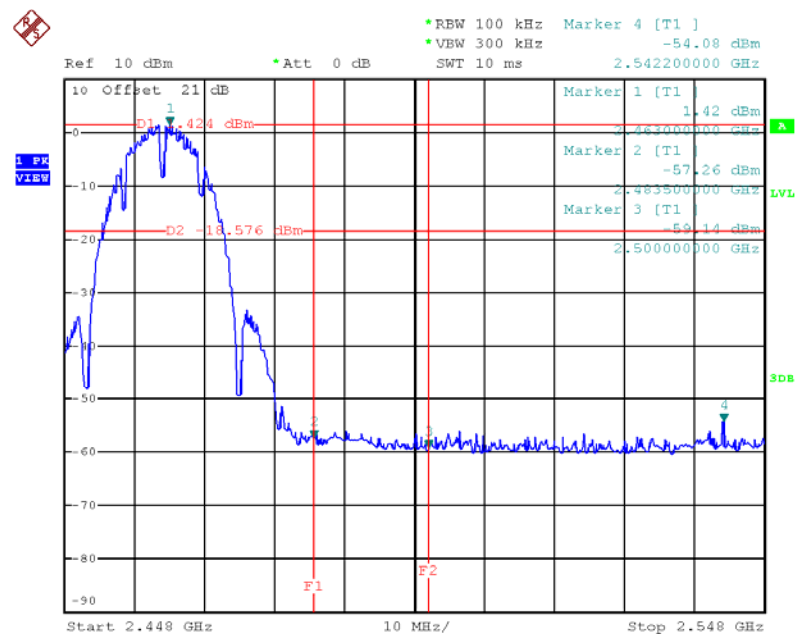
Test Mode : TX B Mode

TX B mode CH01



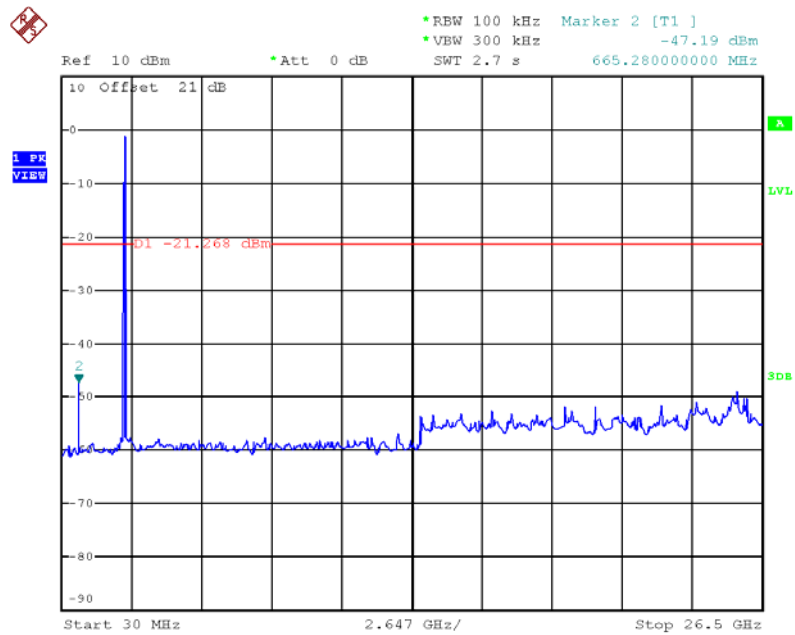
Date: 26.NOV.2015 15:35:45

TX B mode CH11



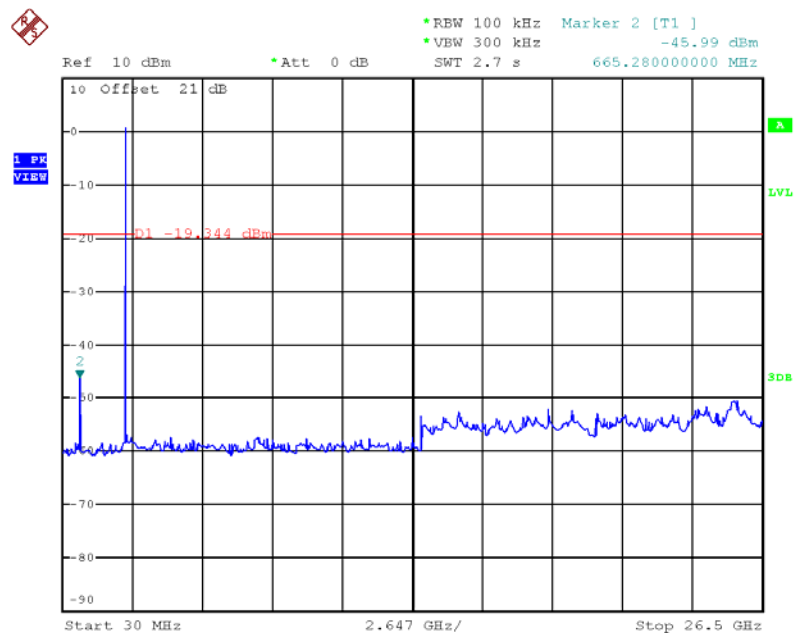
Date: 26.NOV.2015 15:41:23

TX B mode CH01 (10 Harmonic of the frequency)



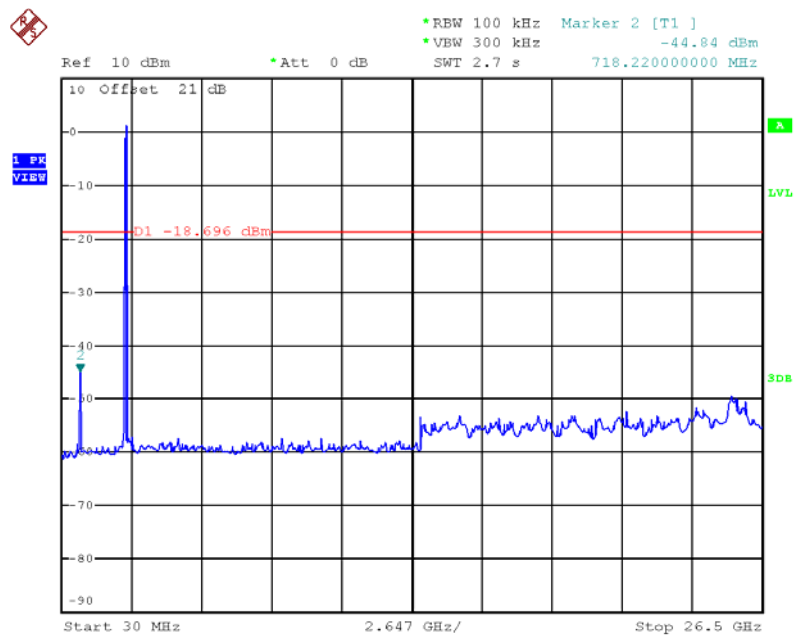
Date: 26.NOV.2015 15:35:20

TX B mode CH06 (10 Harmonic of the frequency)



Date: 26.NOV.2015 15:38:45

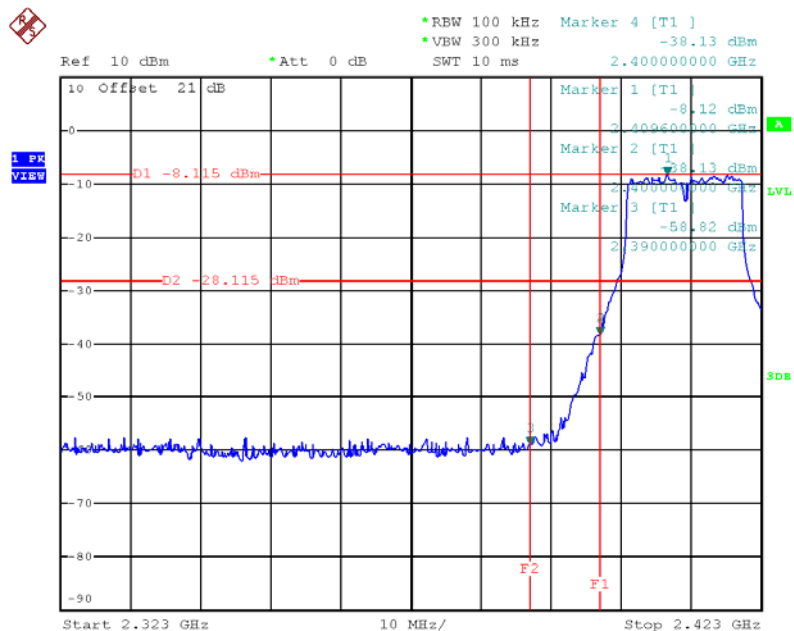
TX B mode CH11 (10 Harmonic of the frequency)



Date: 26.NOV.2015 15:40:58

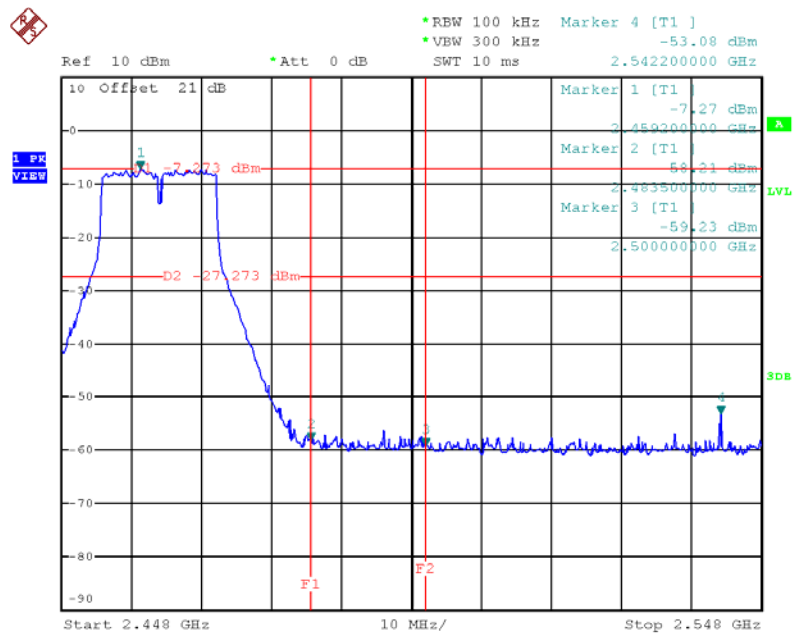
Test Mode : TX G Mode

TX G mode CH01



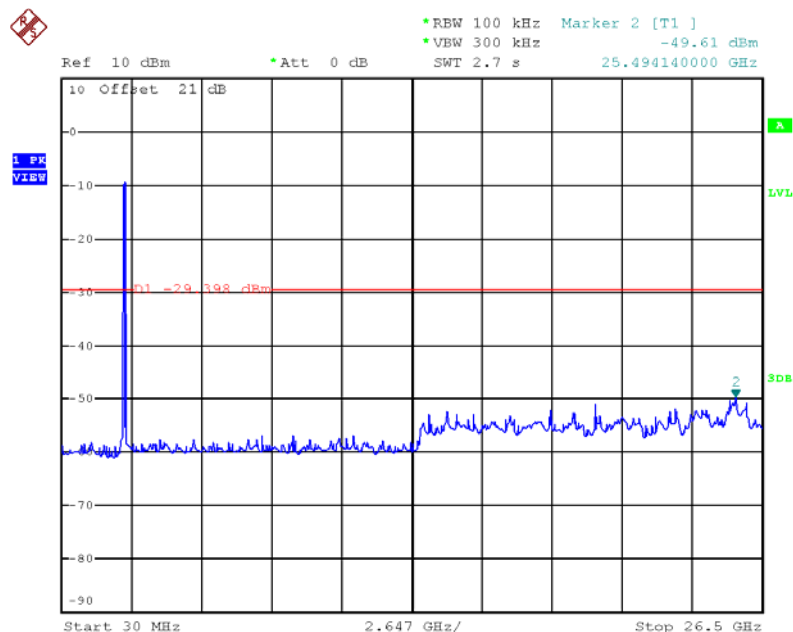
Date: 26.NOV.2015 15:43:15

TX G mode CH11



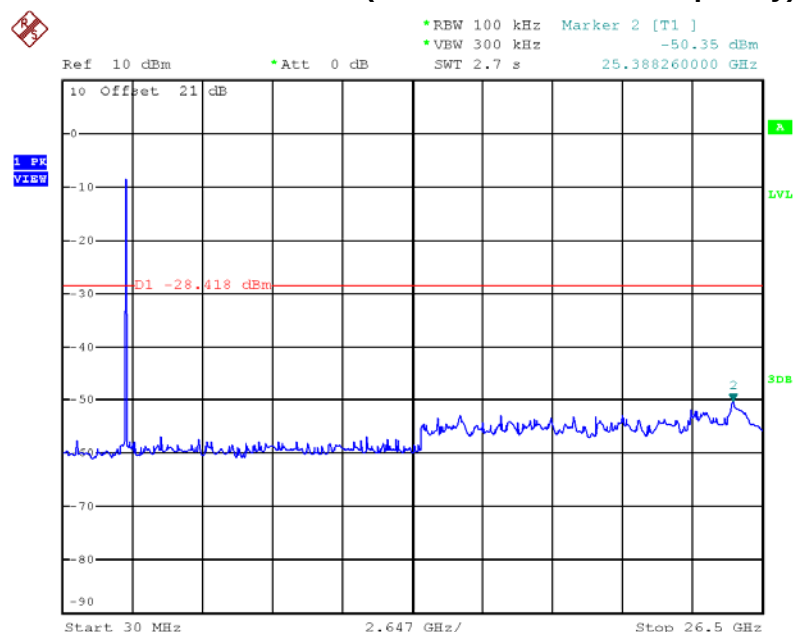
Date: 26.NOV.2015 15:46:35

TX G mode CH01 (10 Harmonic of the frequency)



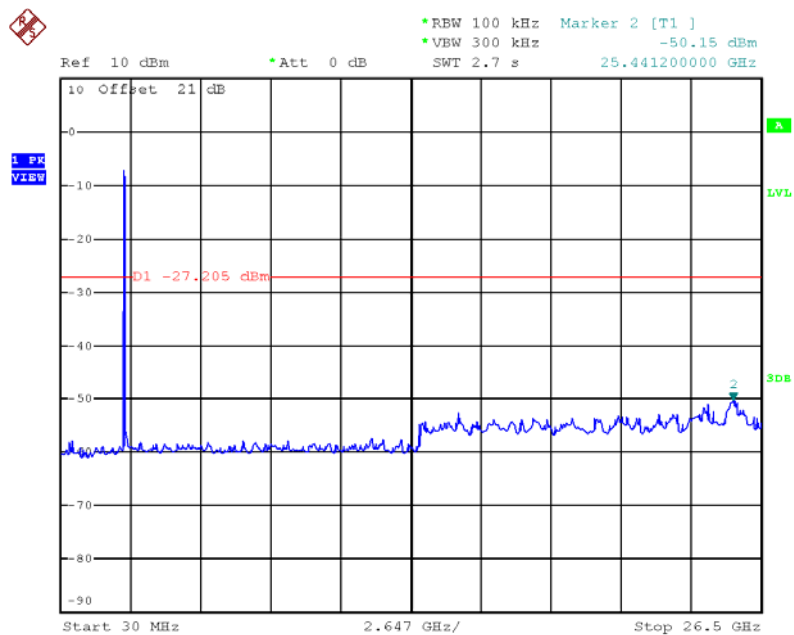
Date: 26.NOV.2015 15:42:51

TX G mode CH06 (10 Harmonic of the frequency)



Date: 26.NOV.2015 15:44:55

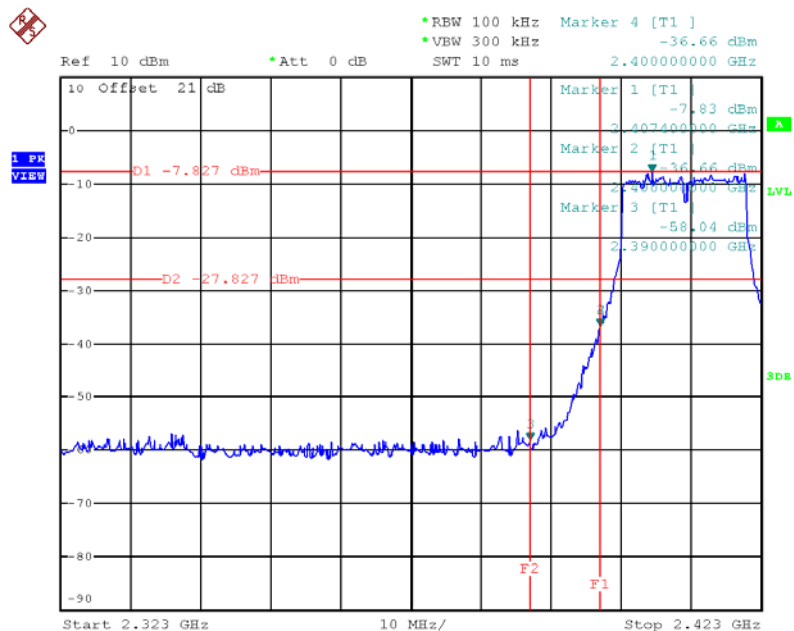
TX G mode CH11 (10 Harmonic of the frequency)



Date: 26.NOV.2015 15:46:10

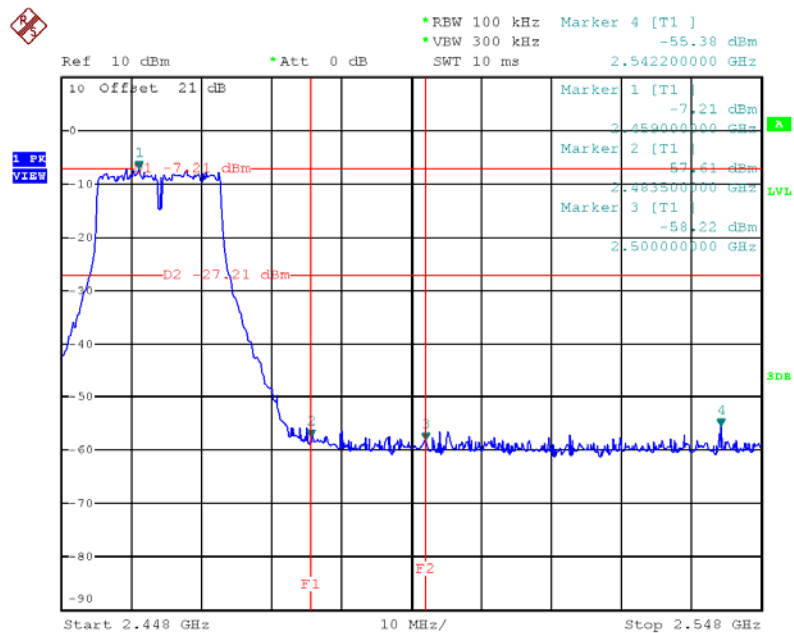
Test Mode : TX N-20M Mode

TX HT20 mode CH01



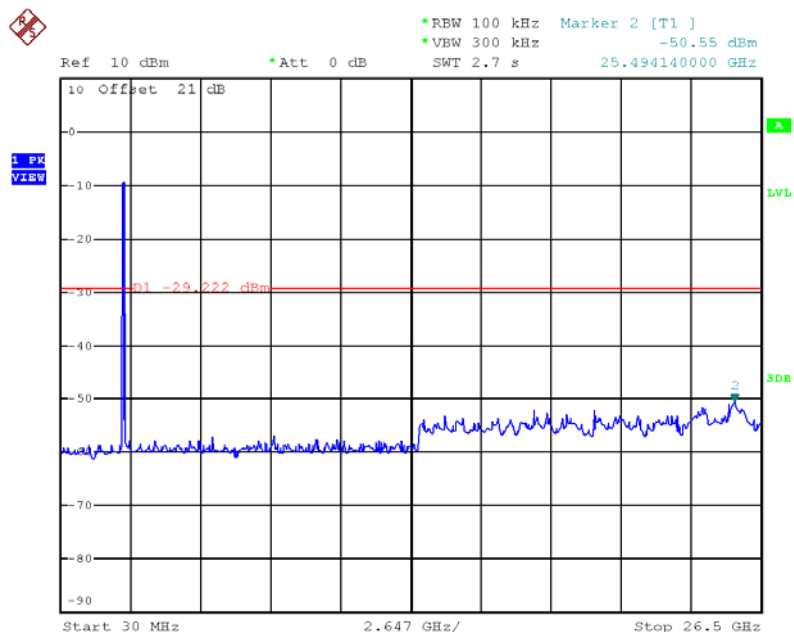
Date: 26.NOV.2015 15:48:33

TX HT20 mode CH11



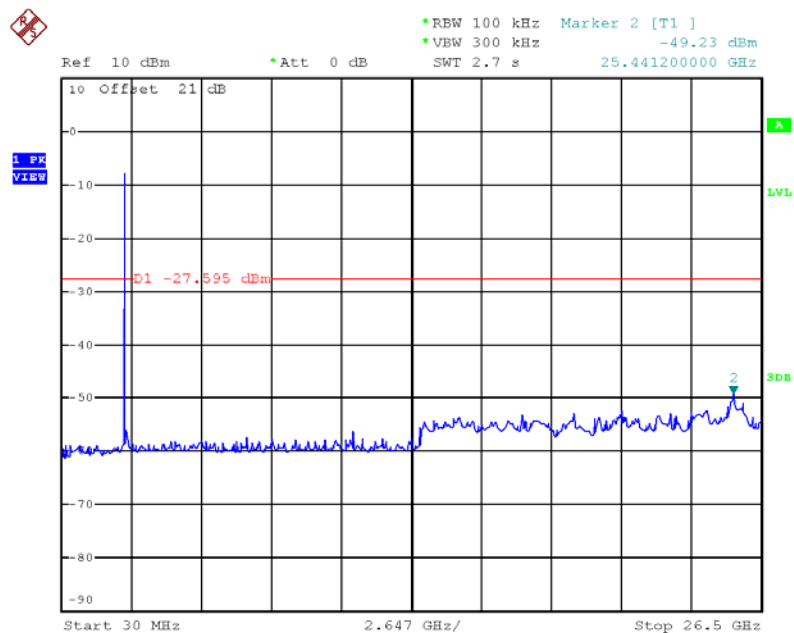
Date: 26.NOV.2015 15:52:01

TX HT20 mode CH01 (10 Harmonic of the frequency)



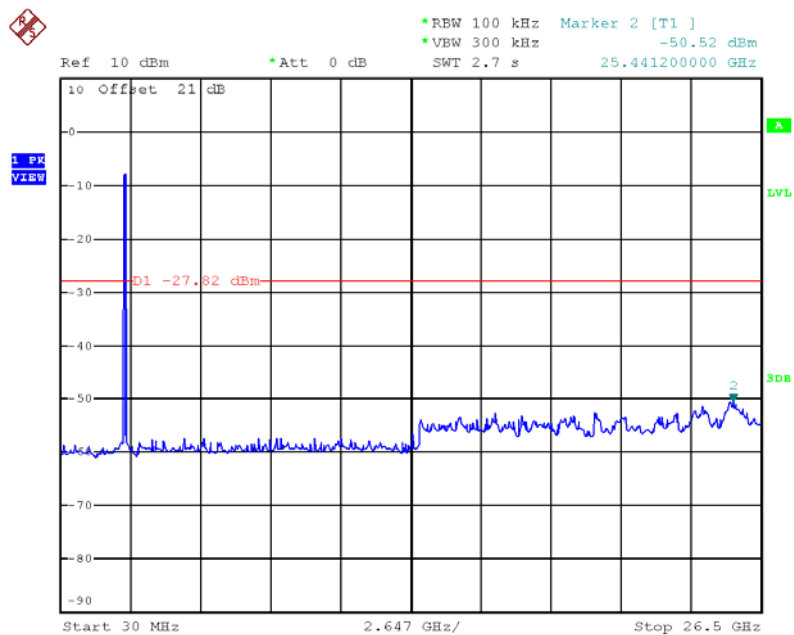
Date: 26.NOV.2015 15:48:08

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 26.NOV.2015 15:50:21

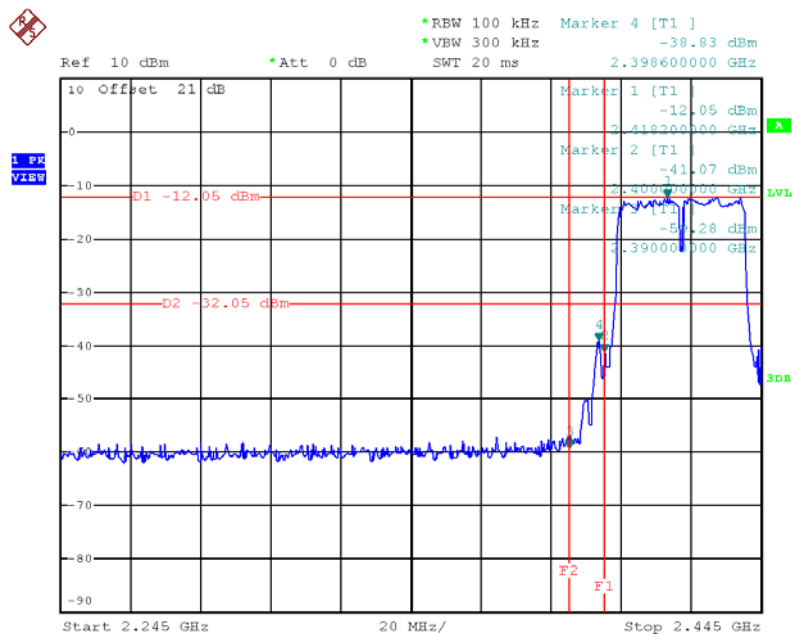
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 26.NOV.2015 15:51:54

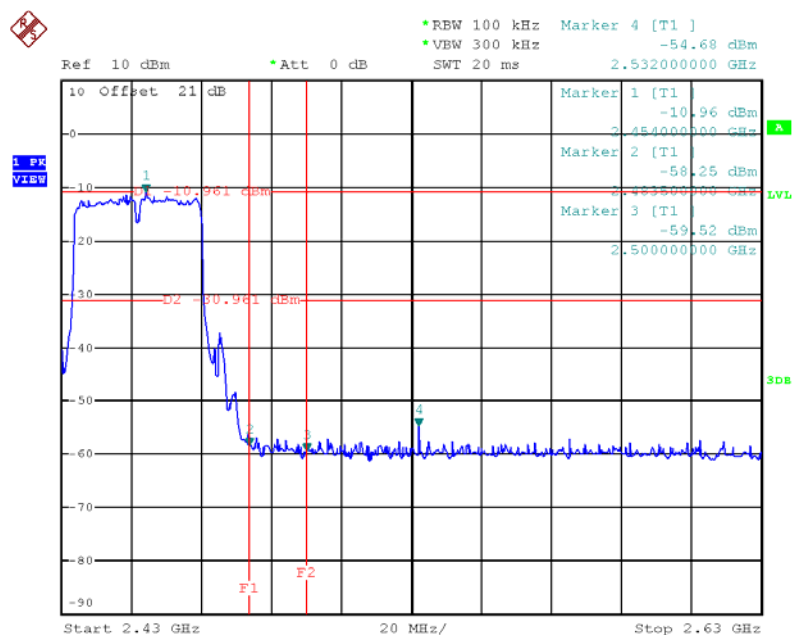
Test Mode : TX N-40M Mode

TX HT40 mode CH03



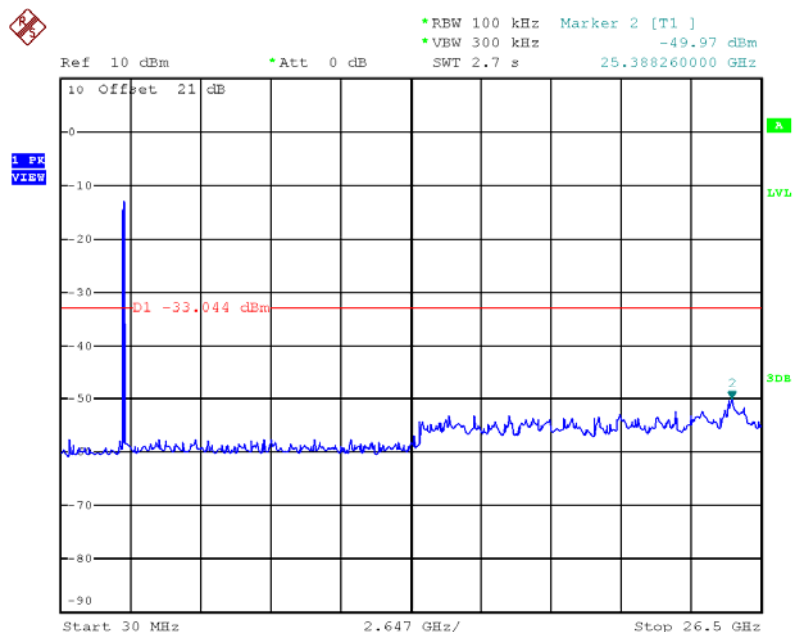
Date: 26.NOV.2015 15:53:57

TX HT40 mode CH09



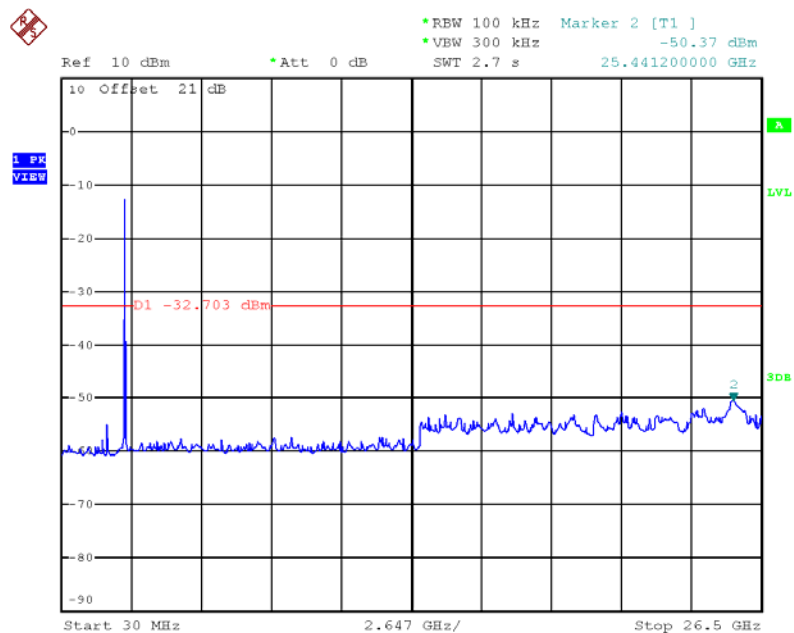
Date: 26.NOV.2015 15:59:10

TX HT40 mode CH03 (10 Harmonic of the frequency)



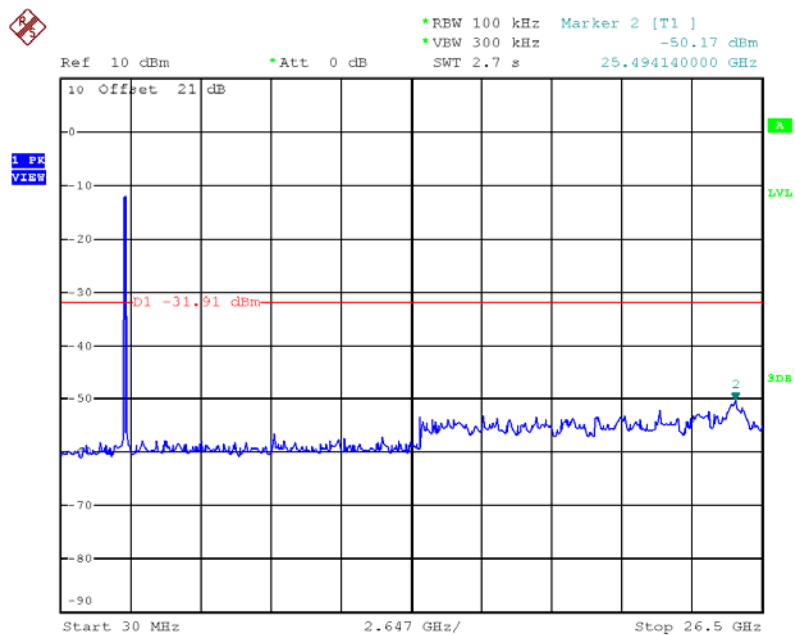
Date: 26.NOV.2015 15:53:32

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 26.NOV.2015 15:57:18

TX HT40 mode CH09 (10 Harmonic of the frequency)



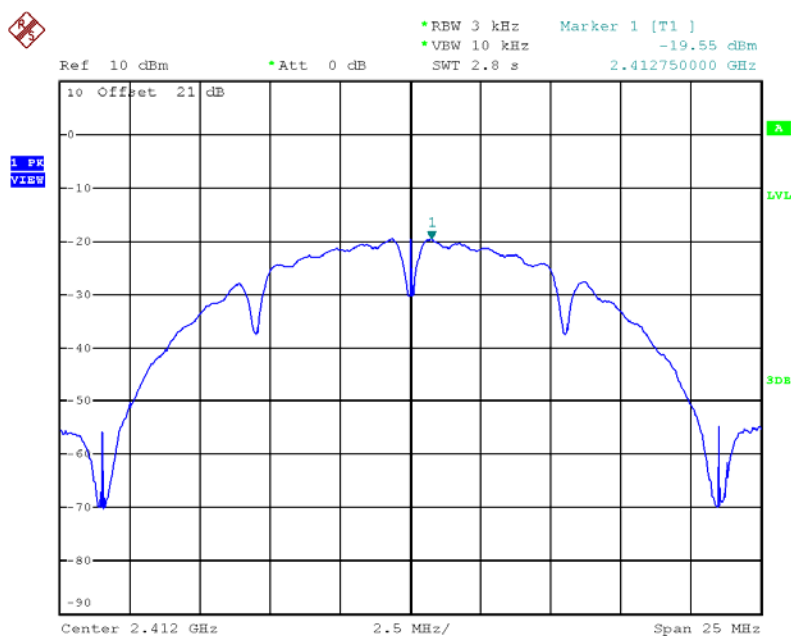
Date: 26.NOV.2015 15:59:02

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

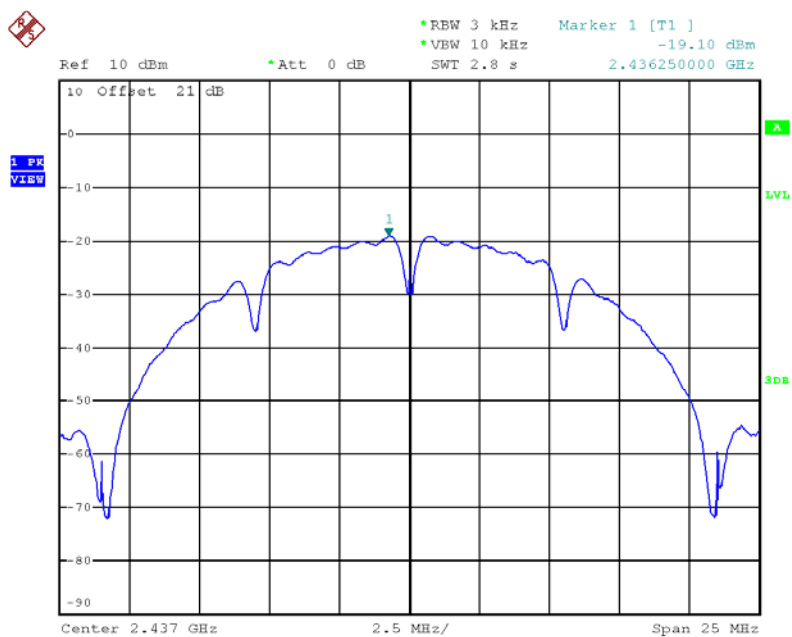
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-19.55	0.01	8.00	Complies
2437	-19.10	0.01	8.00	Complies
2462	-18.55	0.01	8.00	Complies

TX CH01



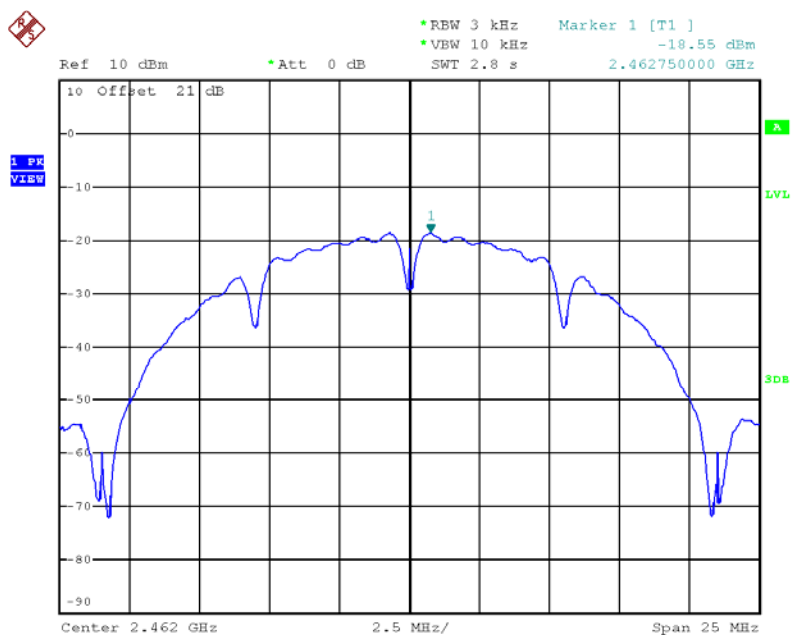
Date: 26.NOV.2015 15:35:54

TX CH06



Date: 26.NOV.2015 15:38:54

TX CH11

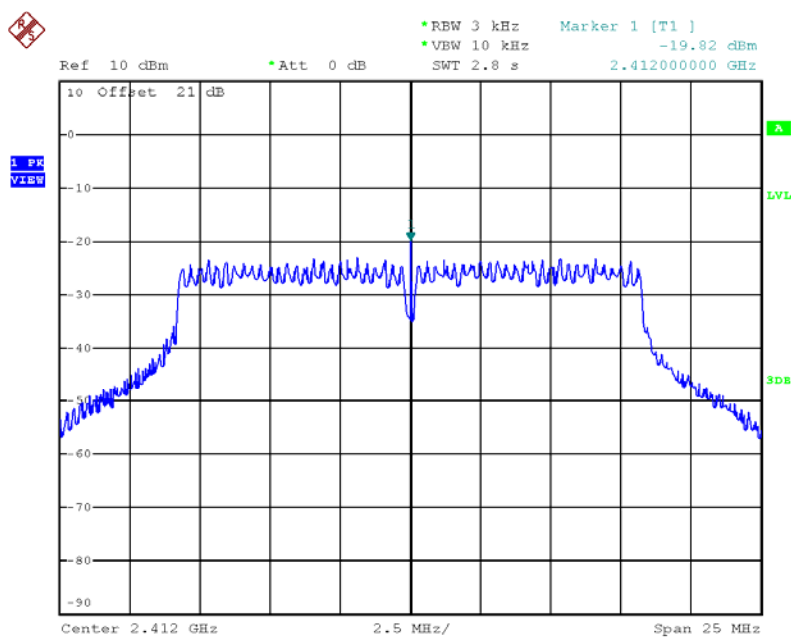


Date: 26.NOV.2015 15:41:32

Test Mode :TX G Mode_CH01/06/11

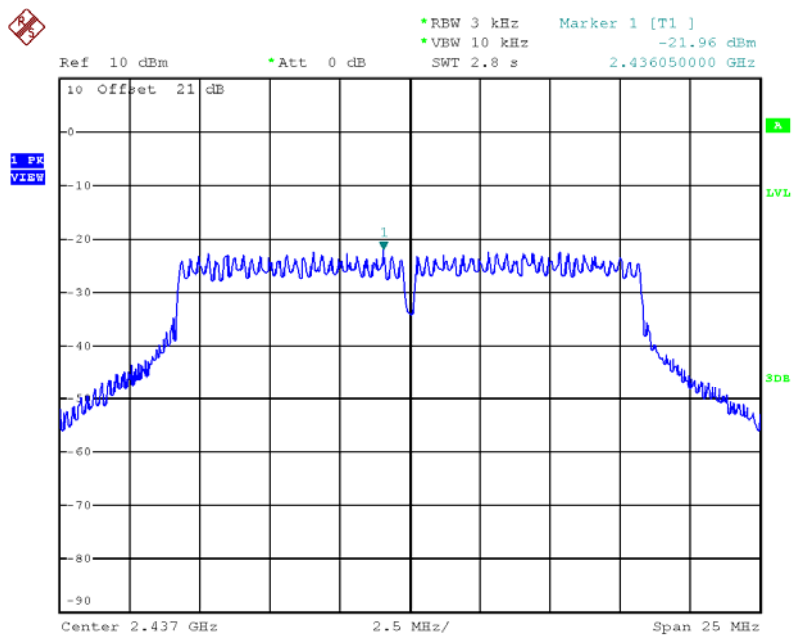
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-19.82	0.01	8.00	Complies
2437	-21.96	0.01	8.00	Complies
2462	-21.47	0.01	8.00	Complies

TX CH01



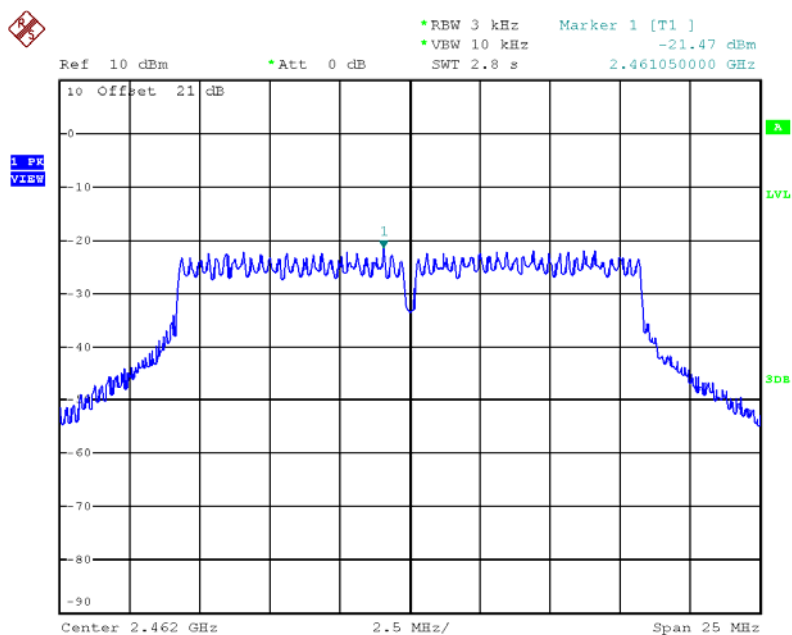
Date: 26.NOV.2015 15:43:25

TX CH06



Date: 26.NOV.2015 15:45:04

TX CH11

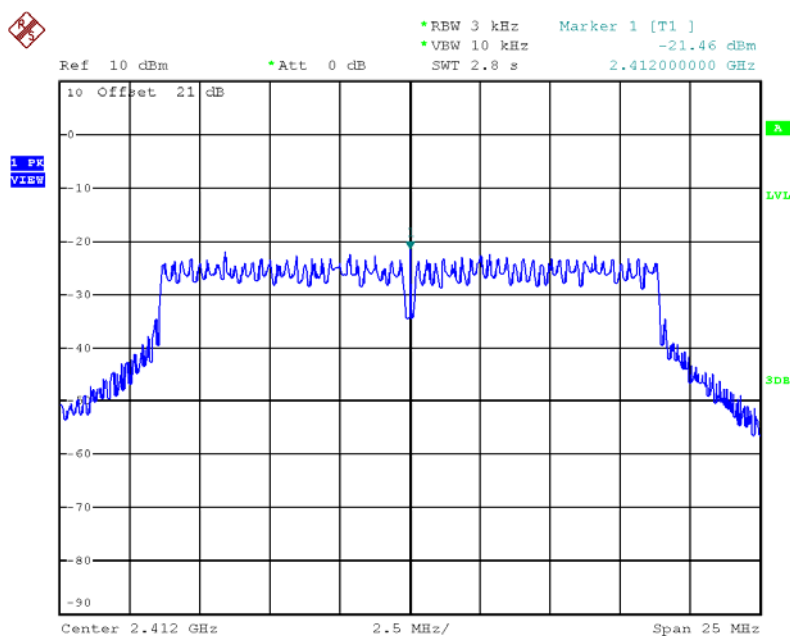


Date: 26.NOV.2015 15:46:44

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

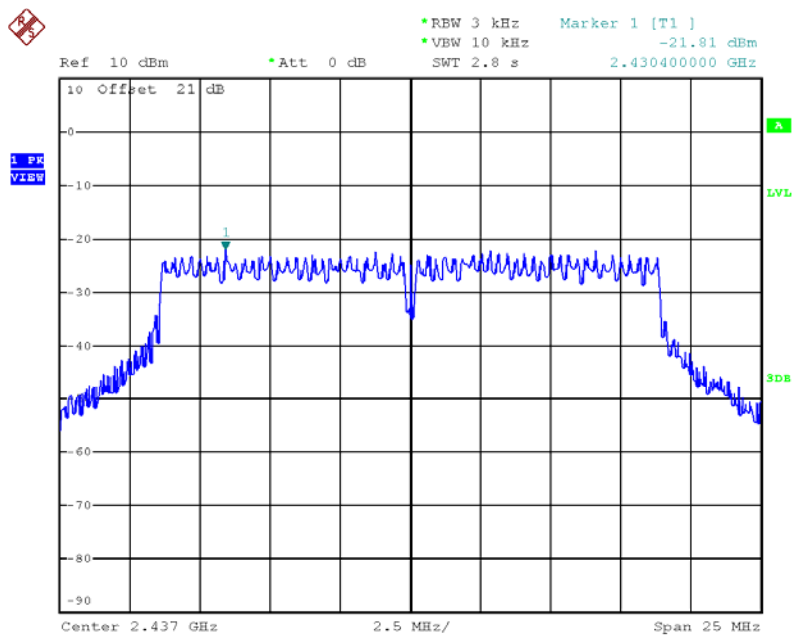
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-21.46	0.01	8.00	Complies
2437	-21.81	0.01	8.00	Complies
2462	-21.14	0.01	8.00	Complies

TX CH01



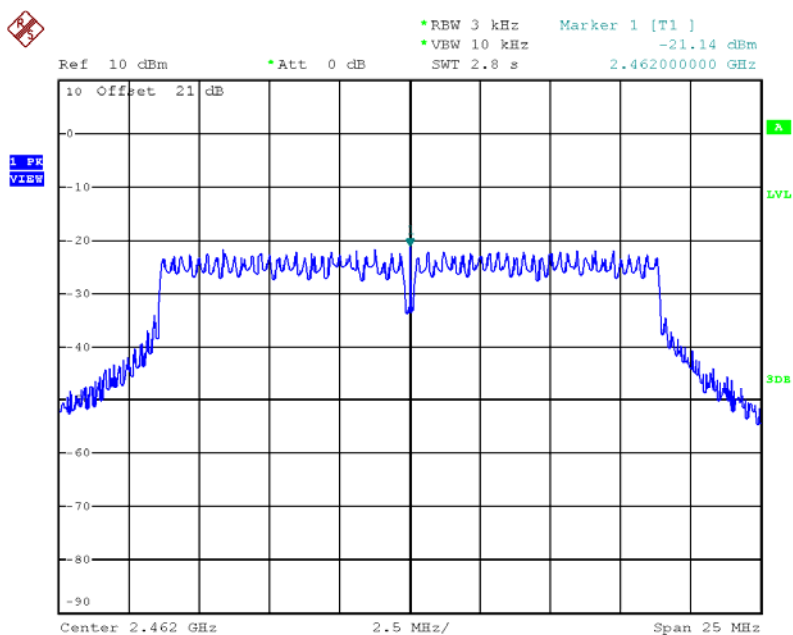
Date: 26.NOV.2015 15:48:42

TX CH06



Date: 26.NOV.2015 15:50:30

TX CH11

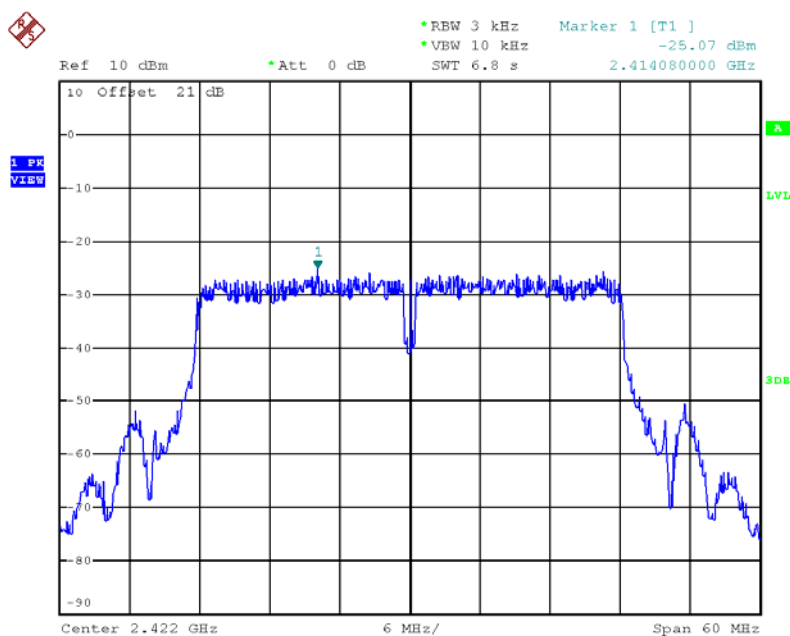


Date: 26.NOV.2015 15:52:11

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

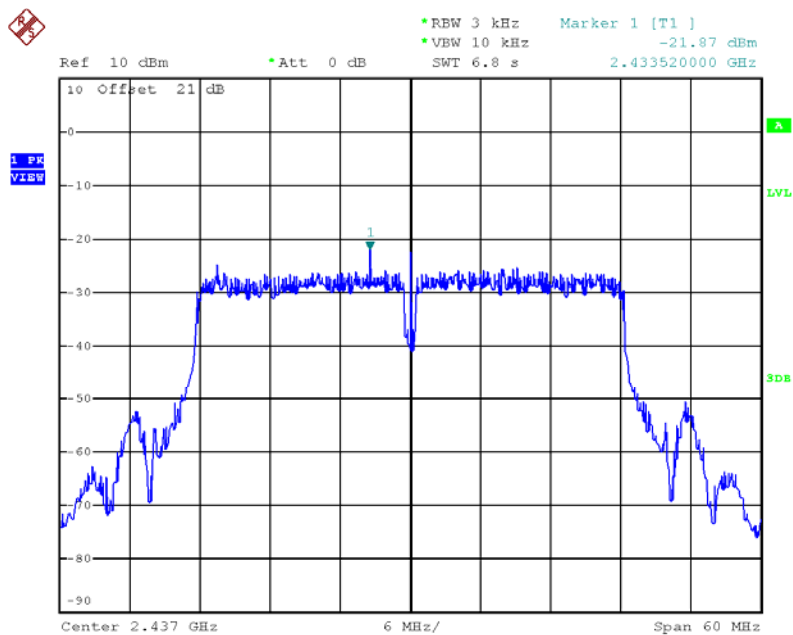
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-25.07	0.00	8.00	Complies
2437	-21.87	0.01	8.00	Complies
2452	-17.25	0.02	8.00	Complies

TX CH03



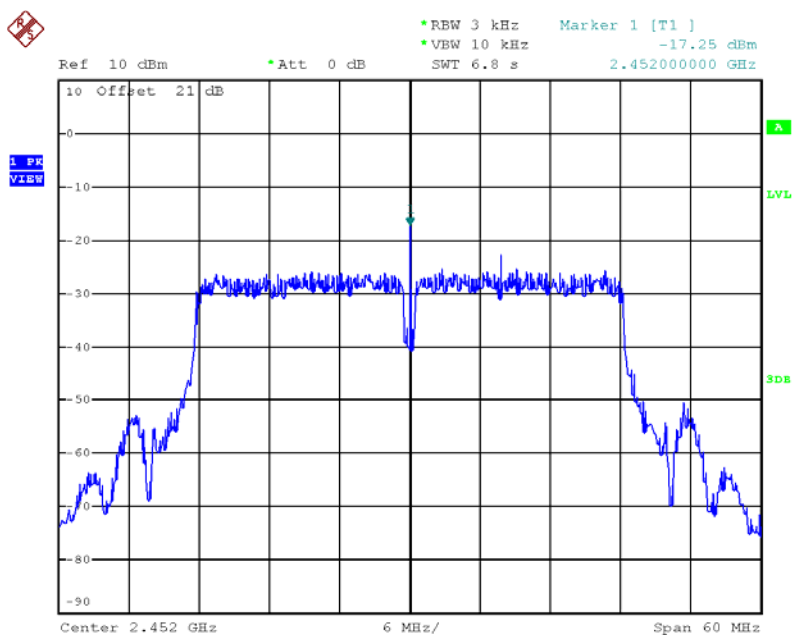
Date: 26.NOV.2015 15:54:09

TX CH06



Date: 26.NOV.2015 15:57:30

TX CH09



Date: 26.NOV.2015 15:59:22