FCC Radio Test Report

FCC ID: QT7WFOUTLET

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

Project No.	:	1509C137
Equipment	:	Wifi Outlet
Model Name	:	HT-HS02
Applicant	:	Power7 Technology (Dongguan) Co., Ltd.
Address	:	No.28 Binjiang Blvd Shishuikou Village, Qiaotou Town, Dongguan City, Guang Dong Province P.R. China

Date of Receipt	:	Sep. 08, 2015
Date of Test	:	Sep. 08, 2015~ Sep. 18, 2015
Issued Date	:	Sep. 21, 2015
Tested by	:	BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1509C137	Original Issue.	Sep. 21, 2015

1. CERTIFICATION

Equipment	:	Wifi Outlet
Brand Name	:	POWER7
Model Name	:	HT-HS02
Applicant	:	Power7 Technology (Dongguan) Co., Ltd.
Manufacturer	:	Power7 Technology (Dongguan) Co., Ltd.
Address	:	No.28 Binjiang Blvd Shishuikou Village, Qiaotou Town, Dongguan City, Guang Dong Province P.R. China
Factory	:	Power7 Technology (Dongguan) Co., Ltd.
Address	:	No.28 Binjiang Blvd Shishuikou Village, Qiaotou Town, Dongguan City, Guang Dong Province P.R. China
Date of Test	:	Sep. 08, 2015~ Sep. 18, 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-1-1509C137) 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 is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wifi Outlet	
Brand Name	POWER7	
Model Name	HT-HS02	
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: 16.81dBm 802.11g: 21.29dBm 802.11n(20MHz): 21.09dBm 802.11n(40MHz): 21.36dBm
Power Source	#1 Supplied from USB port. #2 AC Mains.	
Power Rating	#1 EUT I/P: DC 5V 1A O/P: DC 5V 1A #2 AC 100-240V	

Note:

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

2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Internal	N/A	1	N/A

.

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX MODE

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
For radiated emission tests, the highest output powers were set for final test.

(3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.

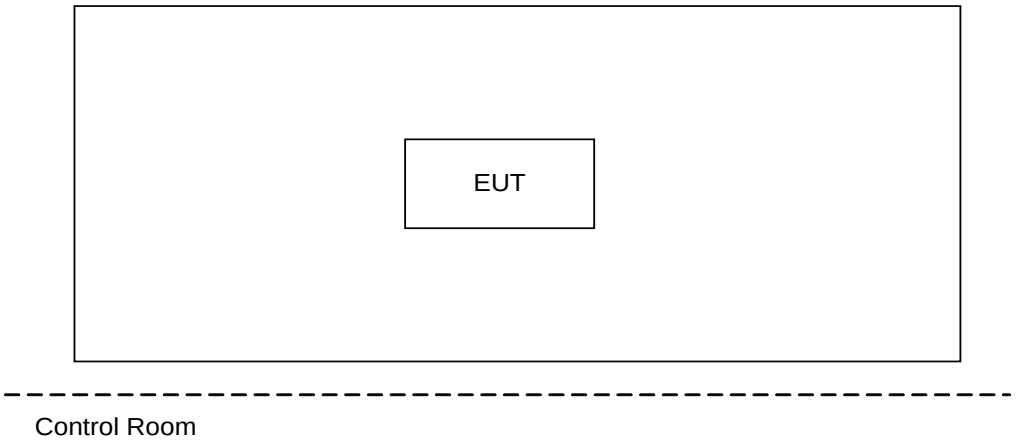
(4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	QA		
Frequency (MHz)	2412	2437	2462
802.11b	18	18	17
802.11g	1A	1A	19
802.11n (20MHz)	1A	1A	1B
Frequency	2422	2437	2452
802.11n (40MHz)	1C	1C	1C

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
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

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 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

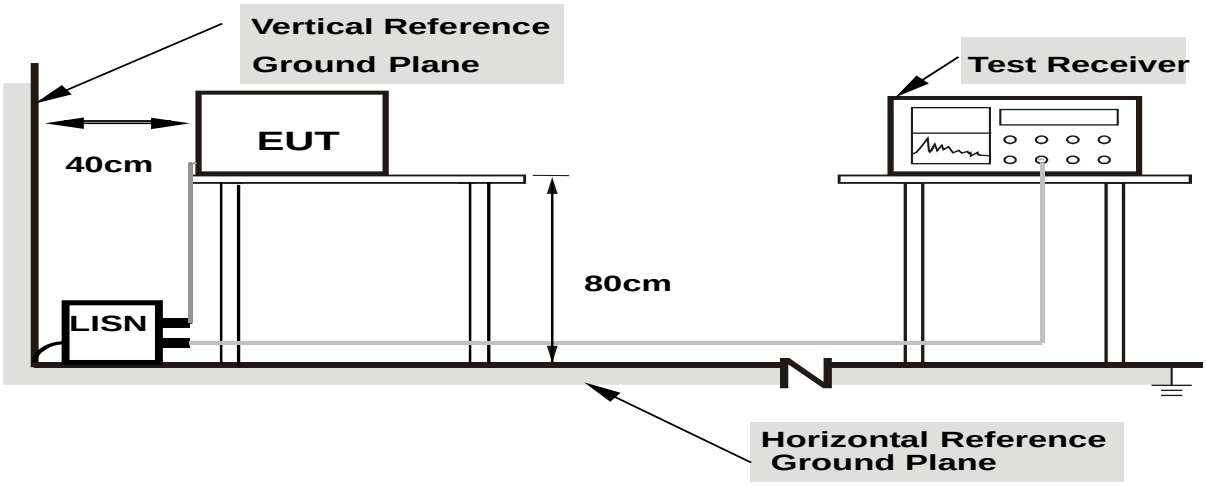
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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

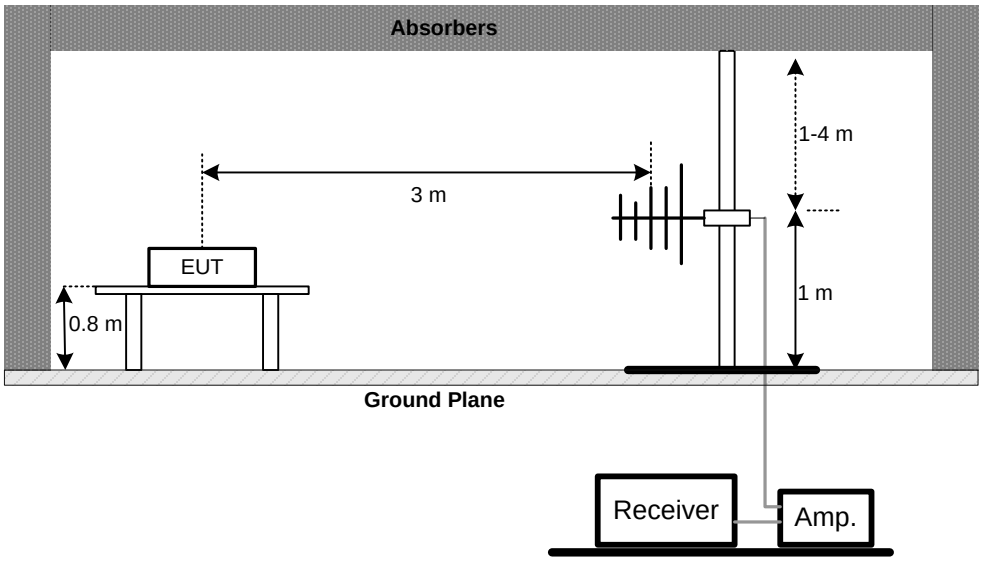
a. The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 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.
d. The initial step in collecting conducted 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.
e. 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)
f. 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)
g. For the actual test configuration, please refer to the related Item - Block Diagram of system tested (please refer to 3.3).

4.2.3 DEVIATION FROM TEST STANDARD

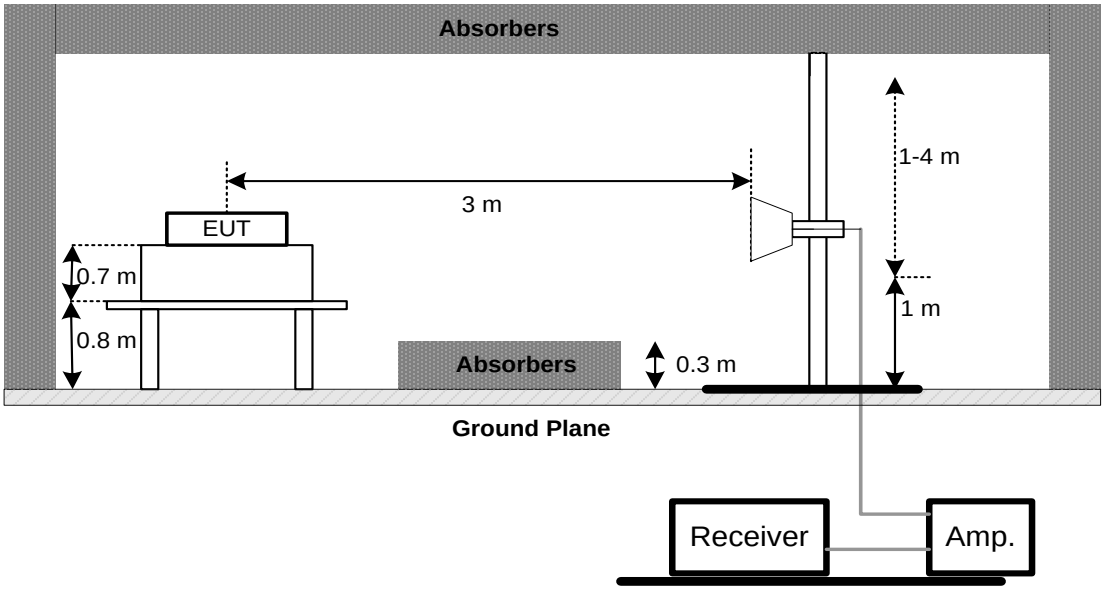
No deviation

4.2.4 TEST SETUP

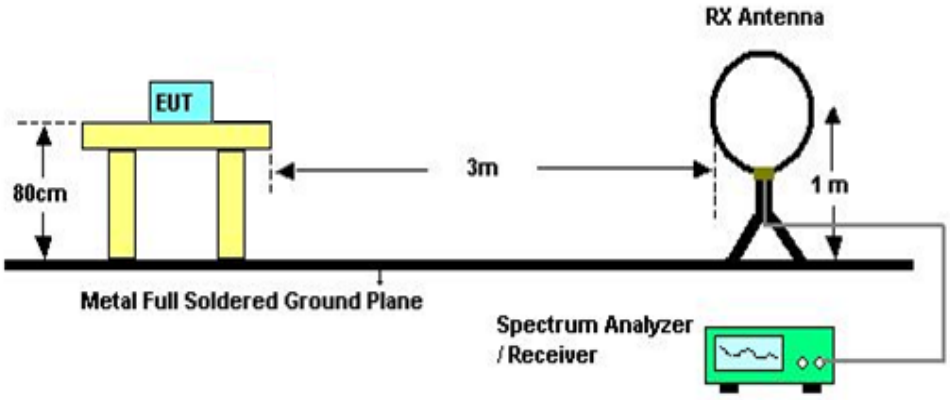
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 (specific distance / test distance) (dB).
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

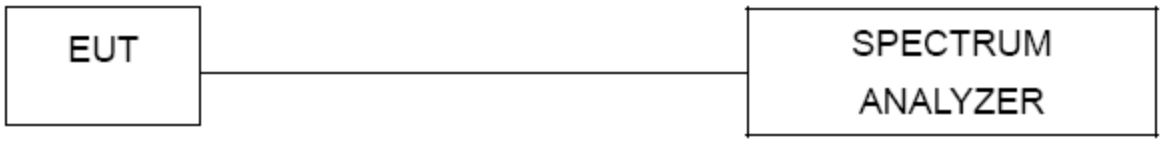
5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



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

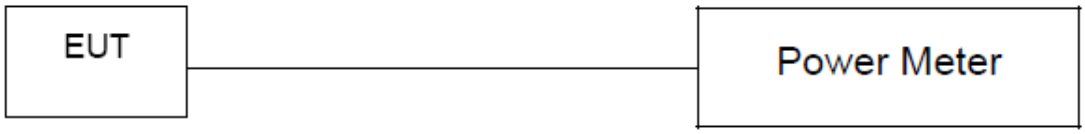
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance 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.

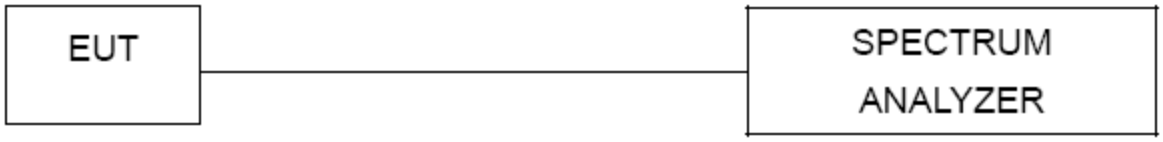
7.1.1 TEST PROCEDURE

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

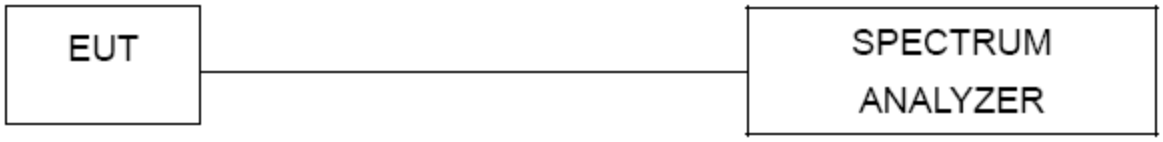
8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



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	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	N/A	C_17	N/A	Mar.13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	N/A
7	Amplifier	Agilent	8449B	3008A02274	Mar. 28, 2016
8	Receiver	AGILENT	N9038A	MY52130039	Nov. 02, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Sep. 30, 2015
10	Controller	CT	SC100	N/A	Jun. 28, 2016
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	N/A
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 28, 2016
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	Aug. 15, 2016

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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 28, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 28, 2016

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

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

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

10. EUT TEST PHOTO

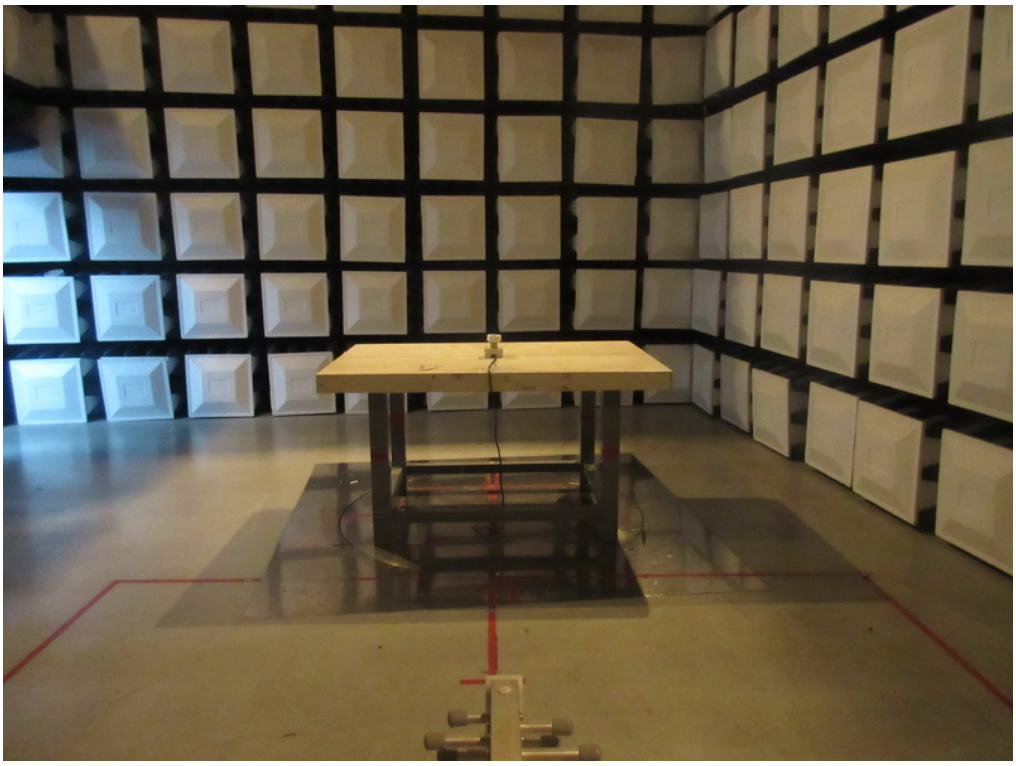
Conducted Measurement Photos

Radiated Measurement Photos

9KHz to 30MHz

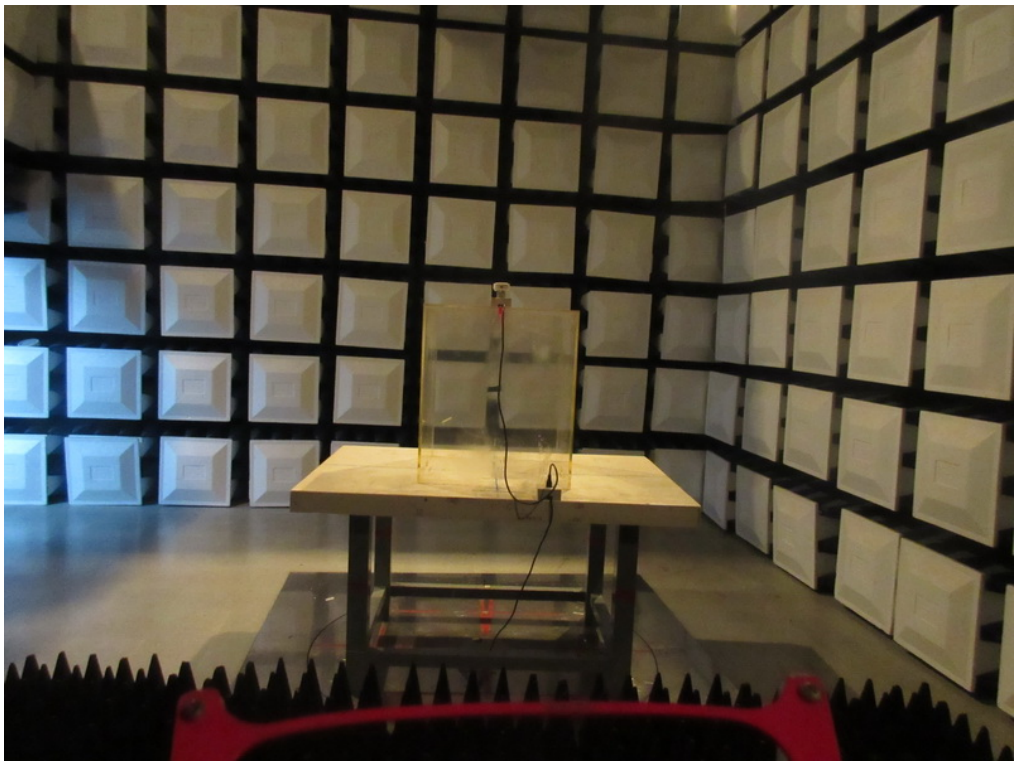
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

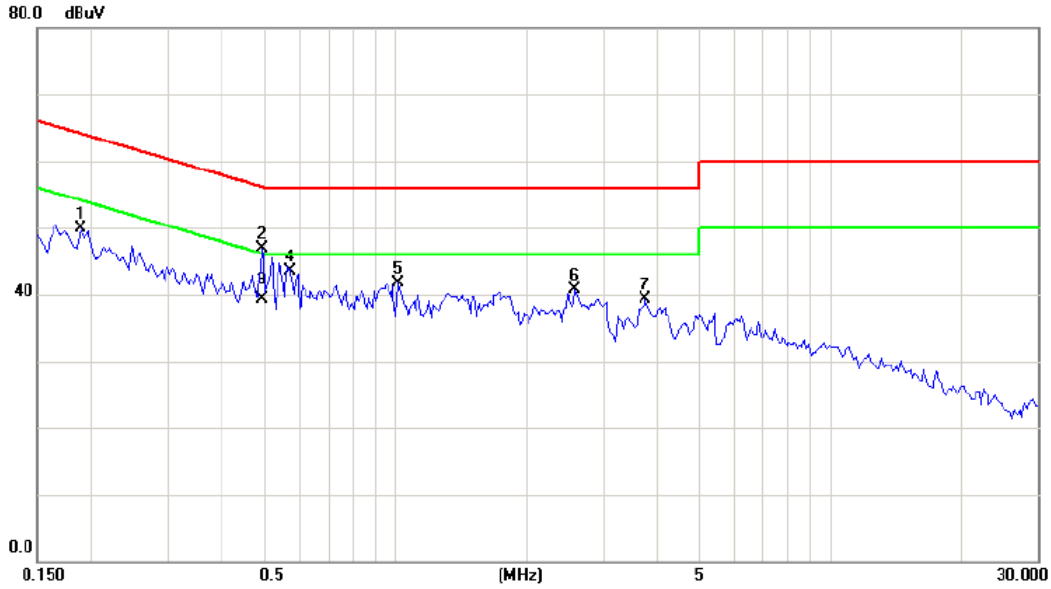
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	TX MODE(PCBA:PWR-153)

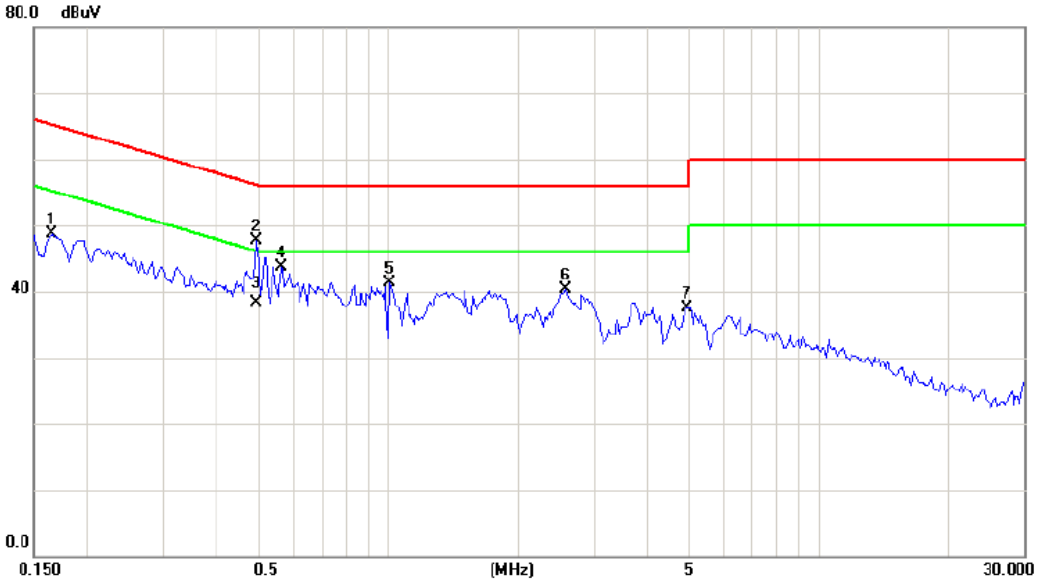
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1891	40.29	9.57	49.86	64.08	-14.22	peak	
2		0.4938	37.16	9.68	46.84	56.10	-9.26	peak	
3	*	0.4938	29.70	9.68	39.38	46.10	-6.72	AVG	
4		0.5720	33.89	9.71	43.60	56.00	-12.40	peak	
5		1.0133	31.87	9.80	41.67	56.00	-14.33	peak	
6		2.5680	30.65	10.00	40.65	56.00	-15.35	peak	
7		3.7500	29.39	9.98	39.37	56.00	-16.63	peak	

Test Mode :	TX MODE(PCBA:PWR-153)

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1655	39.14	9.48	48.62	65.18	-16.56	peak	
2		0.4938	38.24	9.56	47.80	56.10	-8.30	peak	
3	*	0.4938	28.70	9.56	38.26	46.10	-7.84	AVG	
4		0.5641	34.11	9.56	43.67	56.00	-12.33	peak	
5		1.0094	31.77	9.58	41.35	56.00	-14.65	peak	
6		2.5836	30.43	9.78	40.21	56.00	-15.79	peak	
7		4.9453	27.65	9.91	37.56	56.00	-18.44	peak	

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

Test Mode:	TX B MODE CHANNEL 01(PCBA:PWR-153)

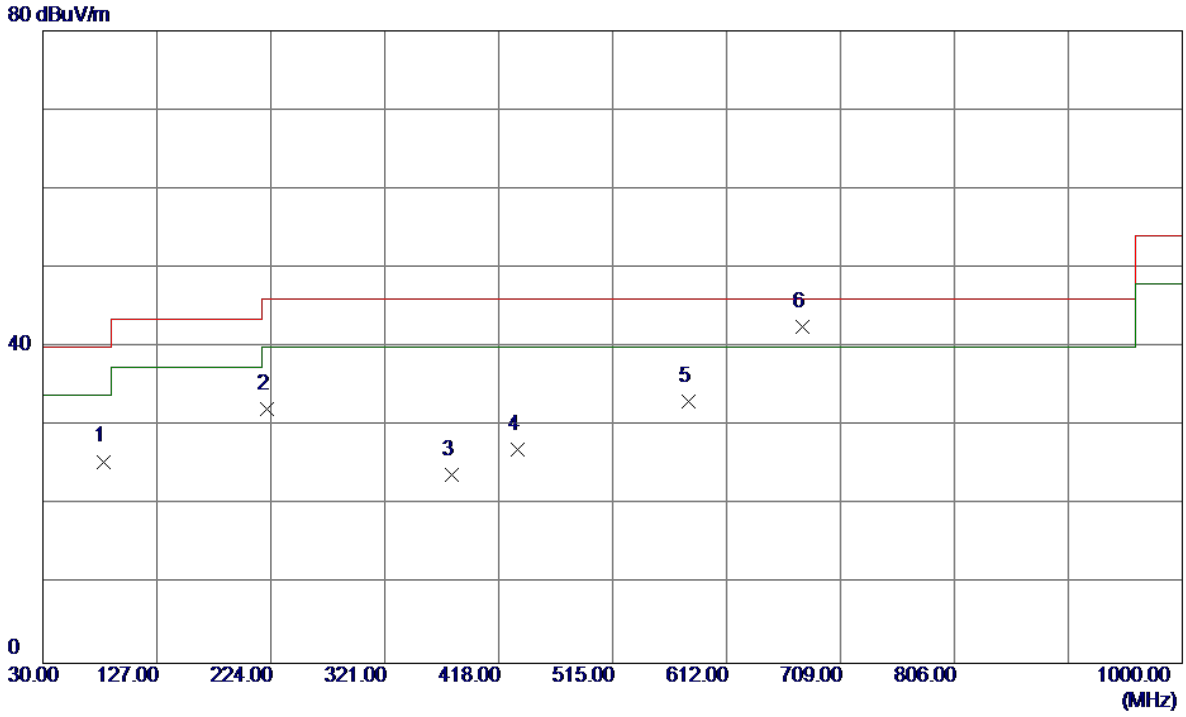
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0132	0°	13.06	24.7307	37.7907	125.1927	-87.4021	AVG
0.0132	0°	14.13	24.7307	38.8607	145.1927	-106.3321	PEAK
0.0236	0°	6.51	24.0720	30.5820	120.1460	-89.5640	AVG
0.0236	0°	8.67	24.0720	32.7420	140.1460	-107.4040	PEAK
0.0428	0°	3.09	22.8560	25.9460	114.9753	-89.0293	AVG
0.0428	0°	5.43	22.8560	28.2860	134.9753	-106.6893	PEAK
0.0591	0°	1.44	22.2180	23.6580	112.1725	-88.5145	AVG
0.0591	0°	2.91	22.2180	25.1280	132.1725	-107.0445	PEAK
0.5973	0°	19.59	20.1114	39.7014	72.0804	-32.3790	QP
1.73672	0°	23.56	19.5263	43.0863	69.5400	-26.4537	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0137	90°	13.64	24.3000	37.9400	124.8698	-86.9298	AVG
0.0137	90°	15.39	24.3000	39.6900	144.8698	-105.1798	PEAK
0.0292	90°	7.94	23.7173	31.6573	118.2966	-86.6392	AVG
0.0292	90°	9.63	23.7173	33.3473	138.2966	-104.9492	PEAK
0.0468	90°	5.73	22.6027	28.3327	114.1993	-85.8666	AVG
0.0468	90°	6.09	22.6027	28.6927	134.1993	-105.5066	PEAK
0.0531	90°	1.16	22.3380	23.4980	113.1023	-89.6043	AVG
0.0531	90°	2.42	22.3380	24.7580	133.1023	-108.3443	PEAK
0.6023	90°	22.57	20.1274	42.6974	72.0080	-29.3106	QP
1.7861	90°	24.6	19.5214	44.1214	69.5400	-25.4186	QP

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

Test Mode:	TX B MODE CHANNEL 01(PCBA:PWR-153)

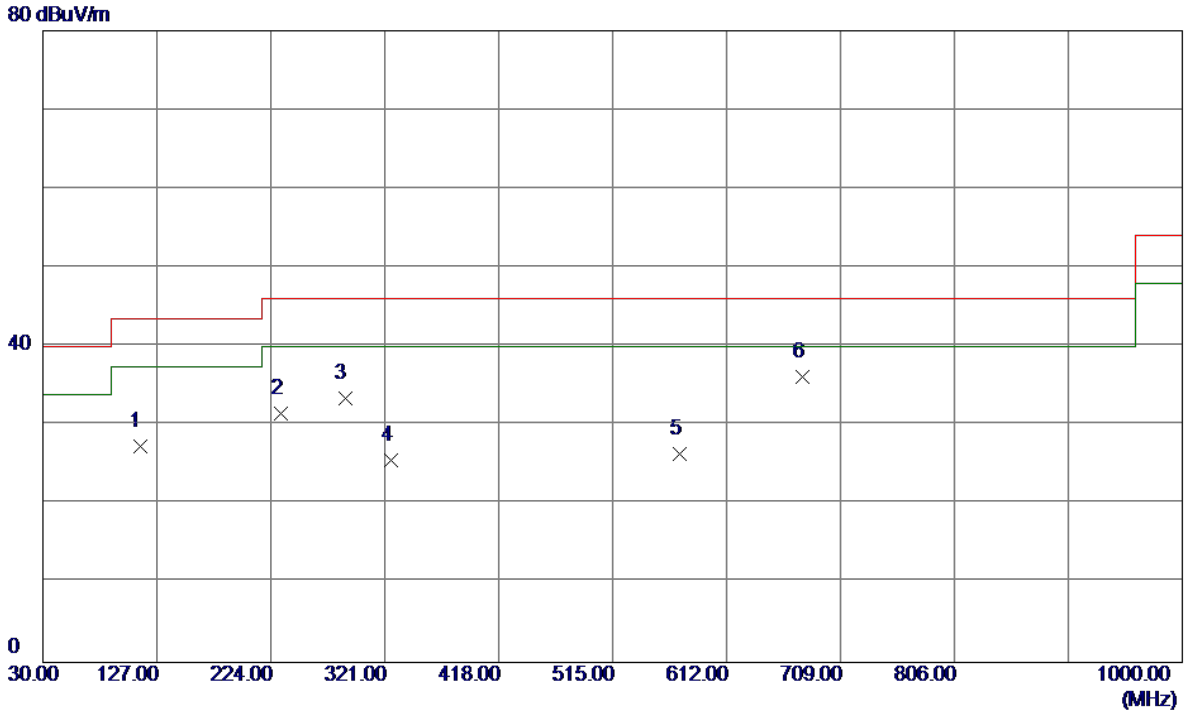
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	81.4100	41.28	-15.76	25.52	40.00	-14.48	Peak	
2	221.0900	45.45	-13.32	32.13	46.00	-13.87	Peak	
3	378.2300	32.33	-8.42	23.91	46.00	-22.09	Peak	
4	434.4900	33.37	-6.32	27.05	46.00	-18.95	Peak	
5	579.9900	37.82	-4.63	33.19	46.00	-12.81	Peak	
6	676.9900	44.05	-1.55	42.50	46.00	-3.50	Peak	

Test Mode:	TX B MODE CHANNEL 01(PCBA:PWR-153)

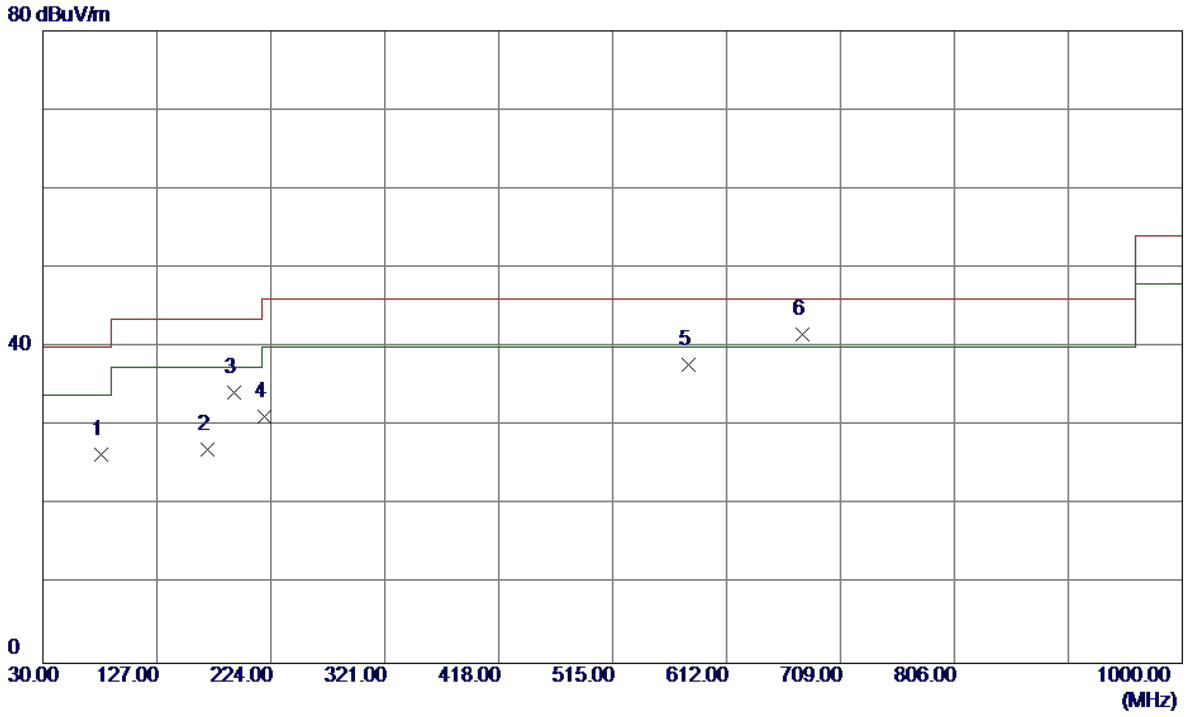
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	112.4500	40.82	-13.50	27.32	43.50	-16.18	Peak	
2	232.7300	44.23	-12.66	31.57	46.00	-14.43	Peak	
3	287.0500	43.58	-10.19	33.39	46.00	-12.61	Peak	
4	326.8200	35.33	-9.76	25.57	46.00	-20.43	Peak	
5	572.2300	30.98	-4.63	26.35	46.00	-19.65	Peak	
6	676.9900	37.73	-1.55	36.18	46.00	-9.82	Peak	

Test Mode:	TX B MODE CHANNEL 06(PCBA:PWR-153)

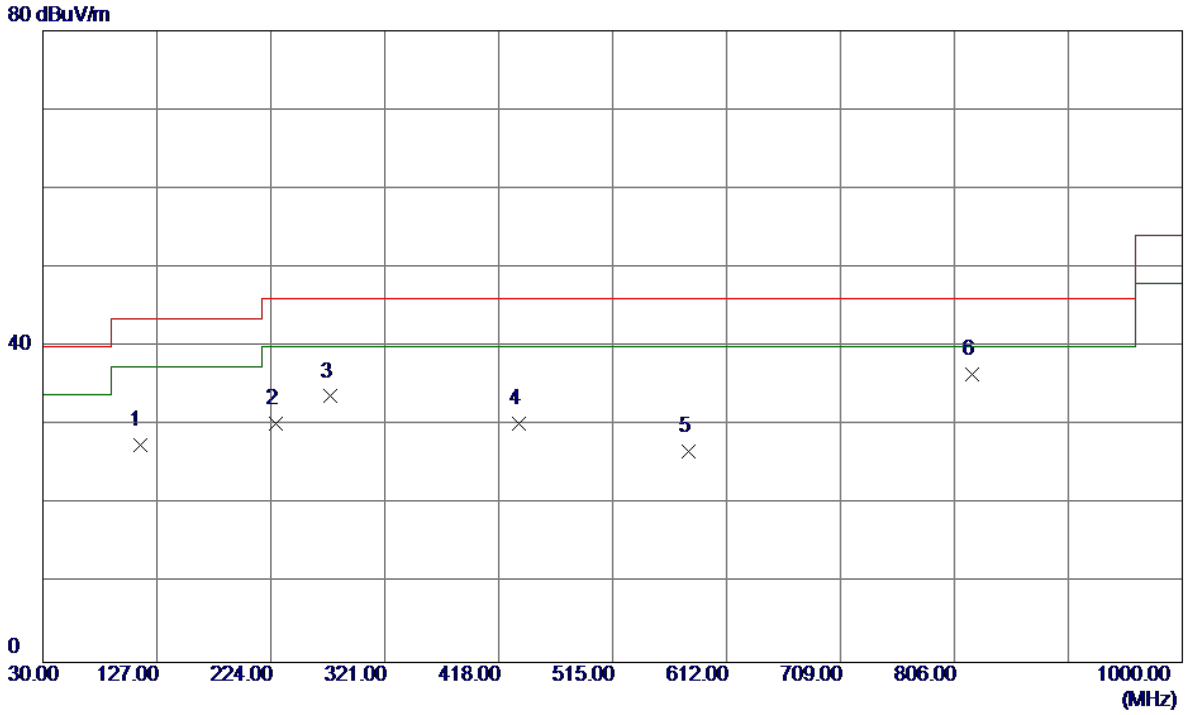
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	79.4700	42.05	-15.66	26.39	40.00	-13.61	Peak	
2	169.6799	38.26	-11.16	27.10	43.50	-16.40	Peak	
3	192.9600	47.46	-13.16	34.30	43.50	-9.20	Peak	
4	218.1800	44.64	-13.45	31.19	46.00	-14.81	Peak	
5	579.9900	42.44	-4.63	37.81	46.00	-8.19	Peak	
6	676.9900	43.17	-1.55	41.62	46.00	-4.38	Peak	

Test Mode:	TX B MODE CHANNEL 06(PCBA:PWR-153)

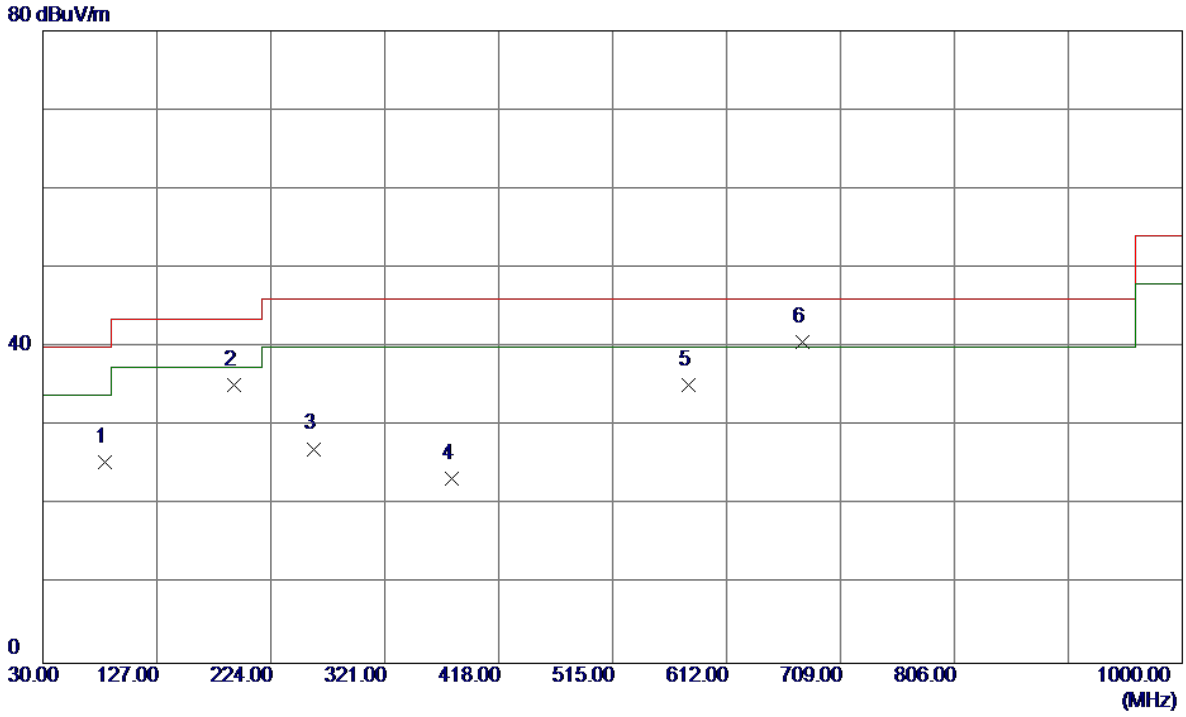
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	112.4500	40.97	-13.50	27.47	43.50	-16.03	Peak	
2	227.8800	43.15	-12.89	30.26	46.00	-15.74	Peak	
3	274.4400	45.15	-11.47	33.68	46.00	-12.32	Peak	
4	435.4600	36.50	-6.29	30.21	46.00	-15.79	Peak	
5	579.9900	31.40	-4.63	26.77	46.00	-19.23	Peak	
6	821.5200	36.36	0.14	36.50	46.00	-9.50	Peak	

Test Mode:	TX B MODE CHANNEL 11(PCBA:PWR-153)

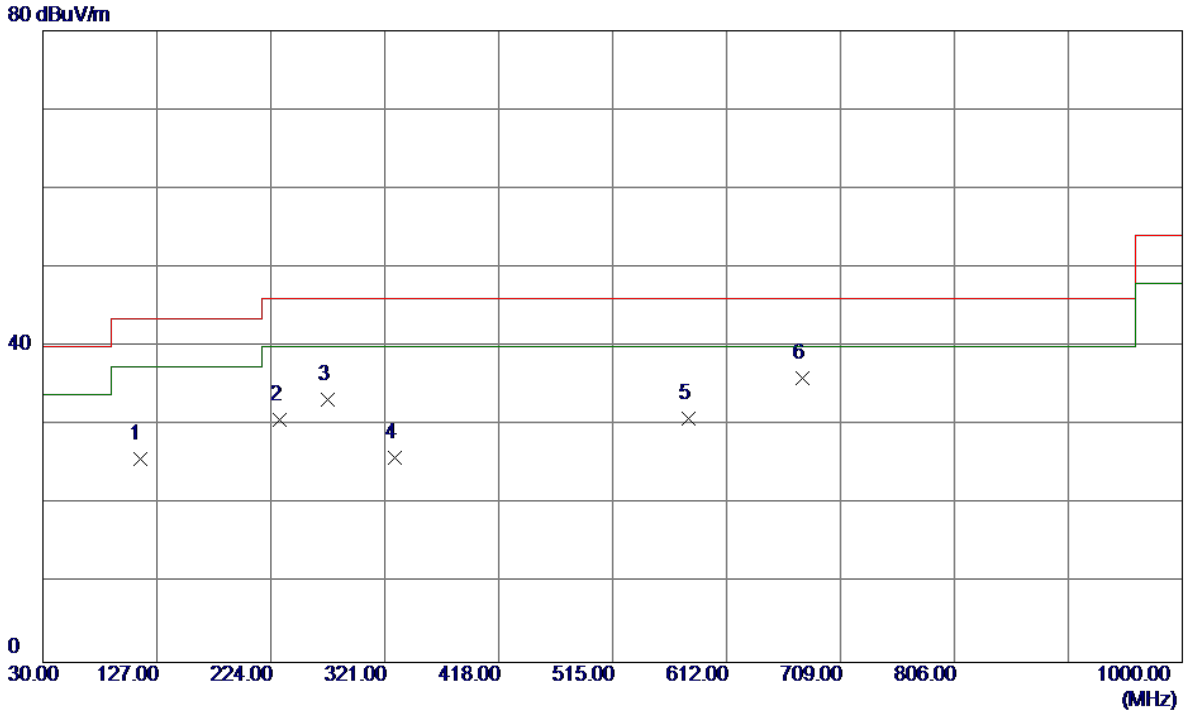
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	82.3800	41.17	-15.79	25.38	40.00	-14.62	Peak	
2	192.9600	48.39	-13.16	35.23	43.50	-8.27	Peak	
3	260.8599	39.68	-12.56	27.12	46.00	-18.88	Peak	
4	378.2300	31.80	-8.42	23.38	46.00	-22.62	Peak	
5	579.9900	39.83	-4.63	35.20	46.00	-10.80	Peak	
6	676.9900	42.23	-1.55	40.68	46.00	-5.32	Peak	

Test Mode:	TX B MODE CHANNEL 11(PCBA:PWR-153)

Horizontal

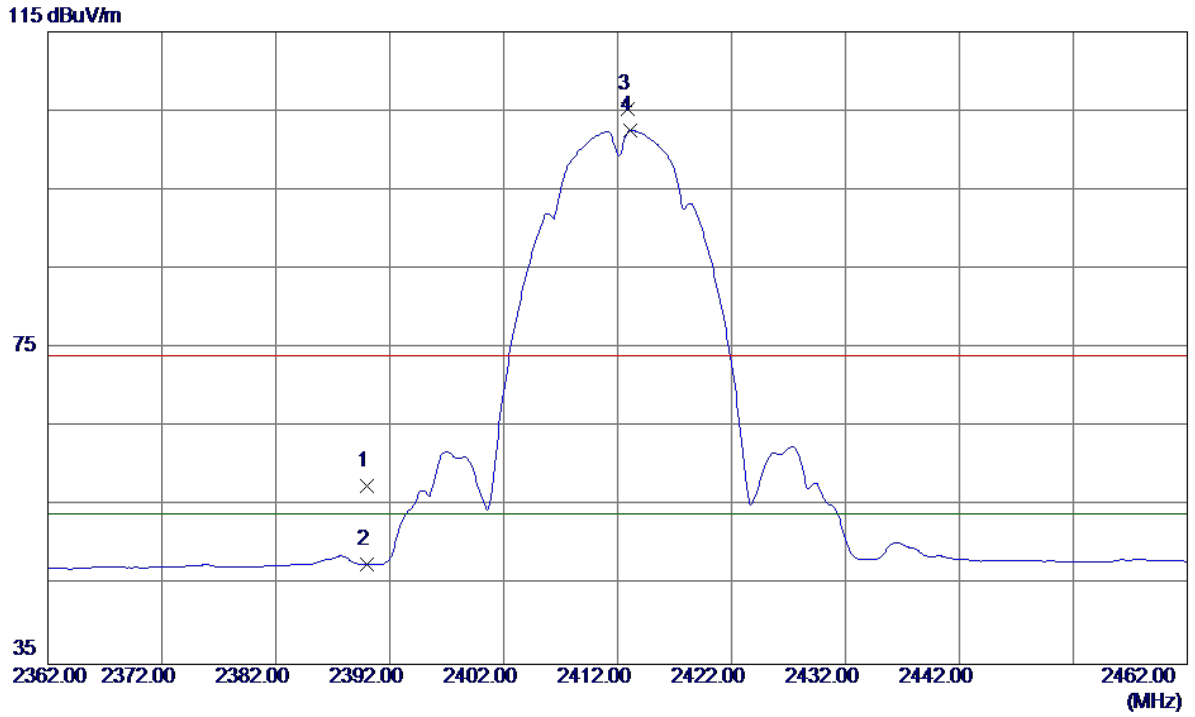


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	112.4500	39.25	-13.50	25.75	43.50	-17.75	Peak	
2	231.7600	43.36	-12.70	30.66	46.00	-15.34	Peak	
3	272.5000	44.94	-11.61	33.33	46.00	-12.67	Peak	
4	329.7300	35.68	-9.78	25.90	46.00	-20.10	Peak	
5	579.9900	35.48	-4.63	30.85	46.00	-15.15	Peak	
6	676.9900	37.59	-1.55	36.04	46.00	-9.96	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz(PCBA:PWR-153)

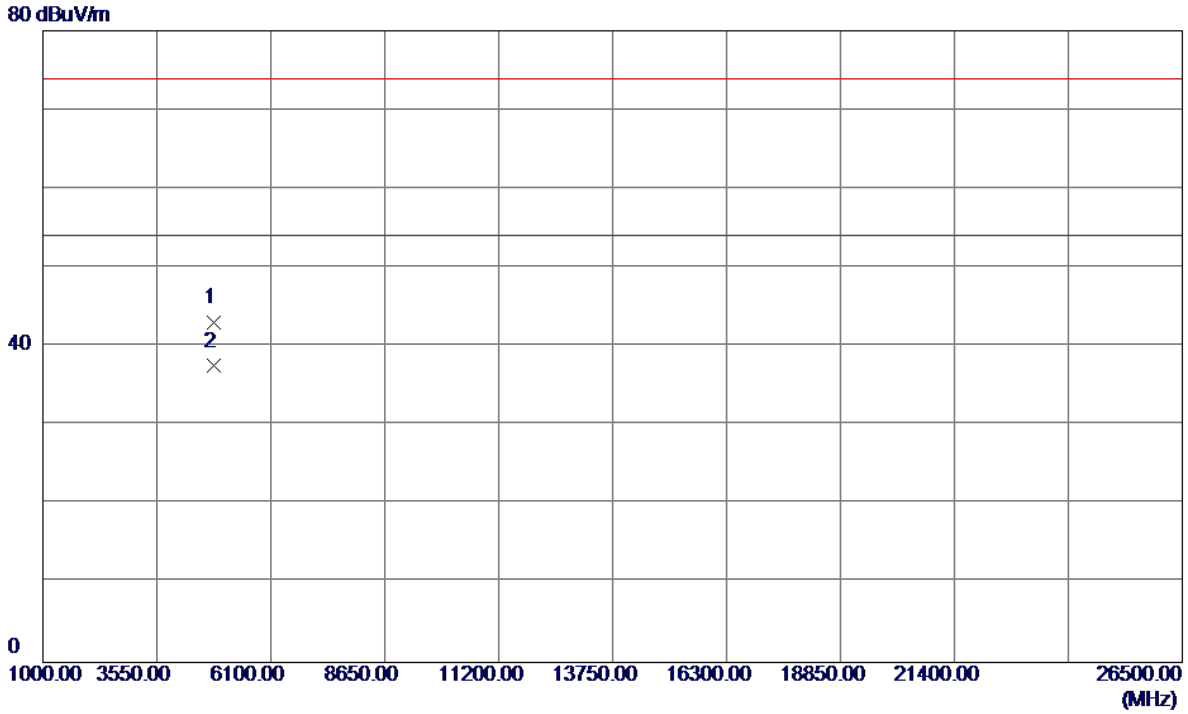
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.37	34.23	57.60	74.00	-16.40	Peak	
2	2390.0000	13.44	34.23	47.67	54.00	-6.33	AVG	
3	2412.9000	70.95	34.36	105.31	74.00	31.31	Peak	NO LIMIT
4	2413.1000	68.16	34.37	102.53	54.00	48.53	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz(PCBA:PWR-153)

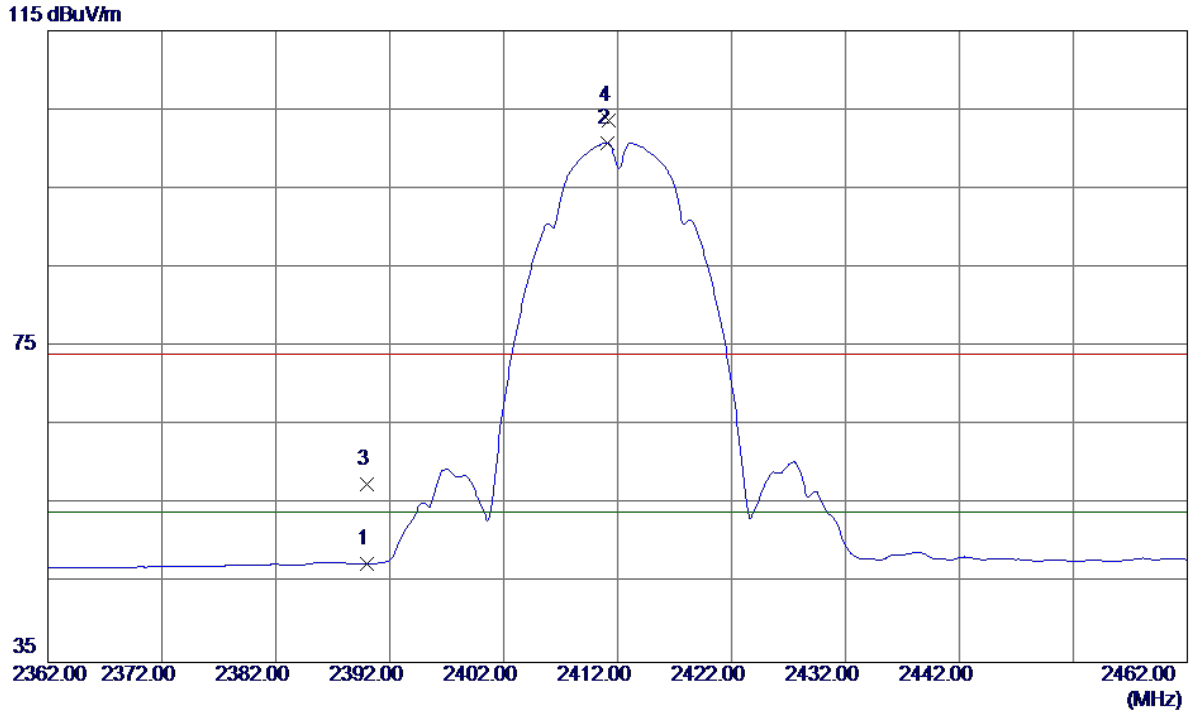
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0200	40.02	3.00	43.02	74.00	-30.98	Peak	
2	4824.1300	34.52	3.00	37.52	54.00	-16.48	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz(PCBA:PWR-153)

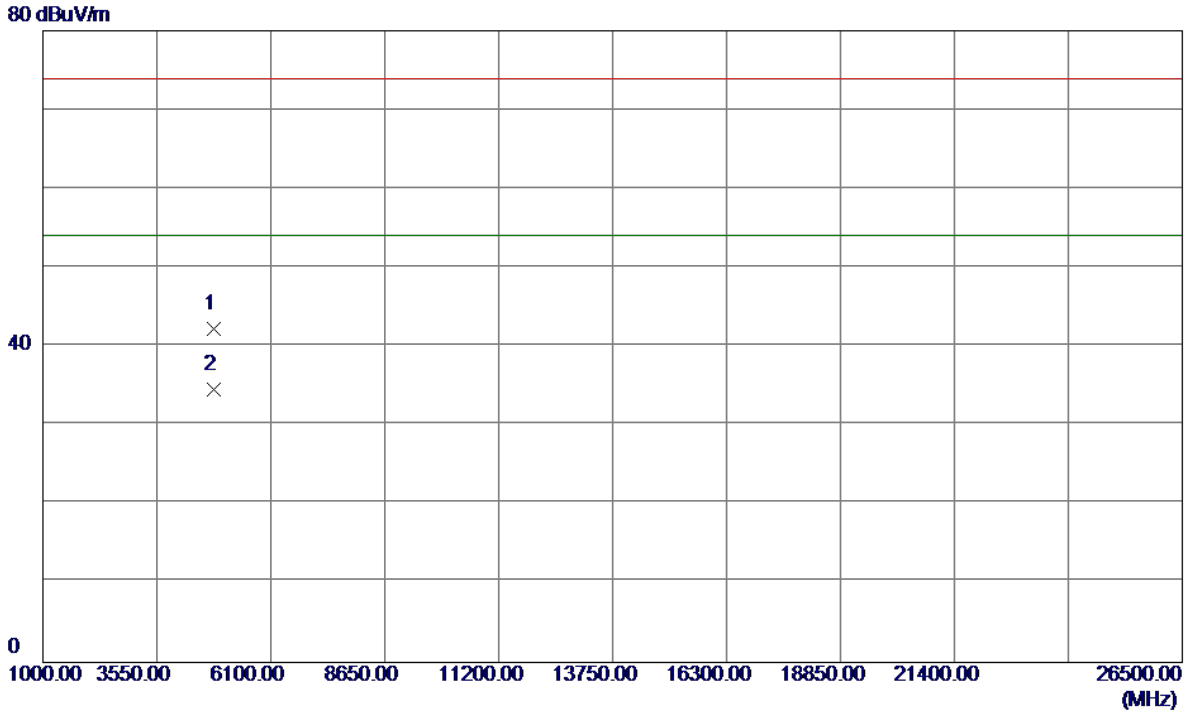
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	13.31	34.23	47.54	54.00	-6.46	AVG	
2	2411.1000	66.47	34.35	100.82	54.00	46.82	AVG	NO LIMIT
3	2390.0000	23.31	34.23	57.54	74.00	-16.46	Peak	
4	2411.2000	69.33	34.35	103.68	74.00	29.68	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz(PCBA:PWR-153)

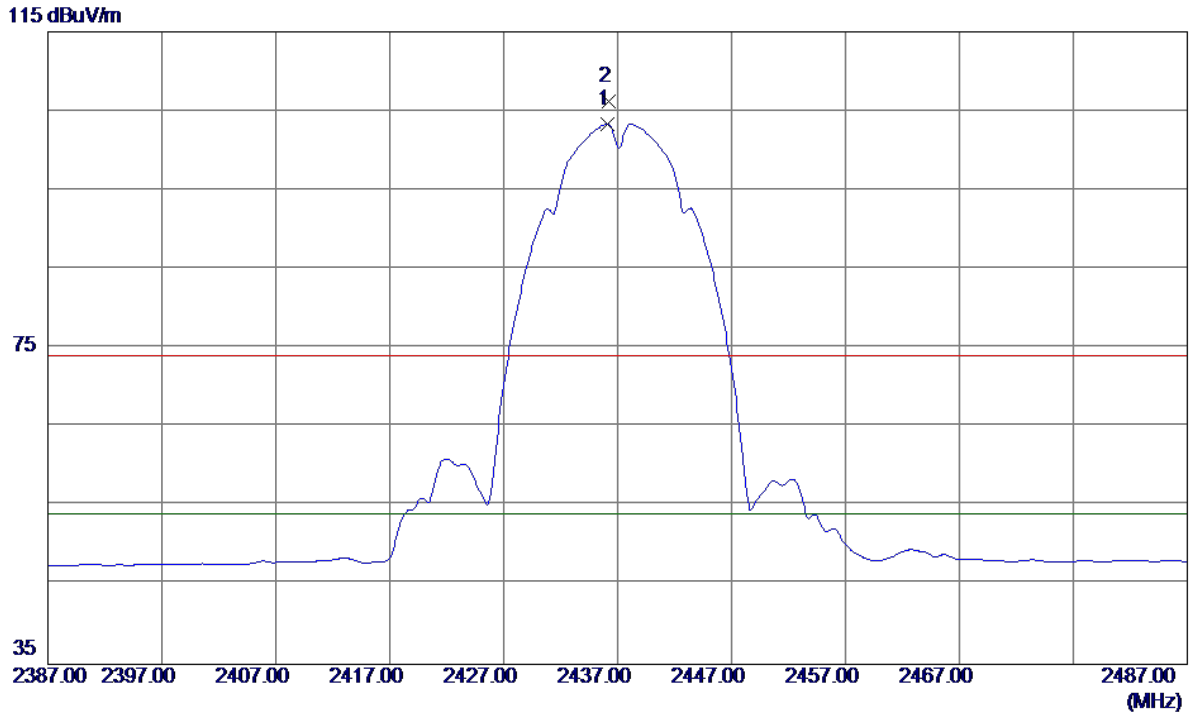
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0600	39.24	3.00	42.24	74.00	-31.76	Peak	
2	4824.1500	31.60	3.00	34.60	54.00	-19.40	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz(PCBA:PWR-153)

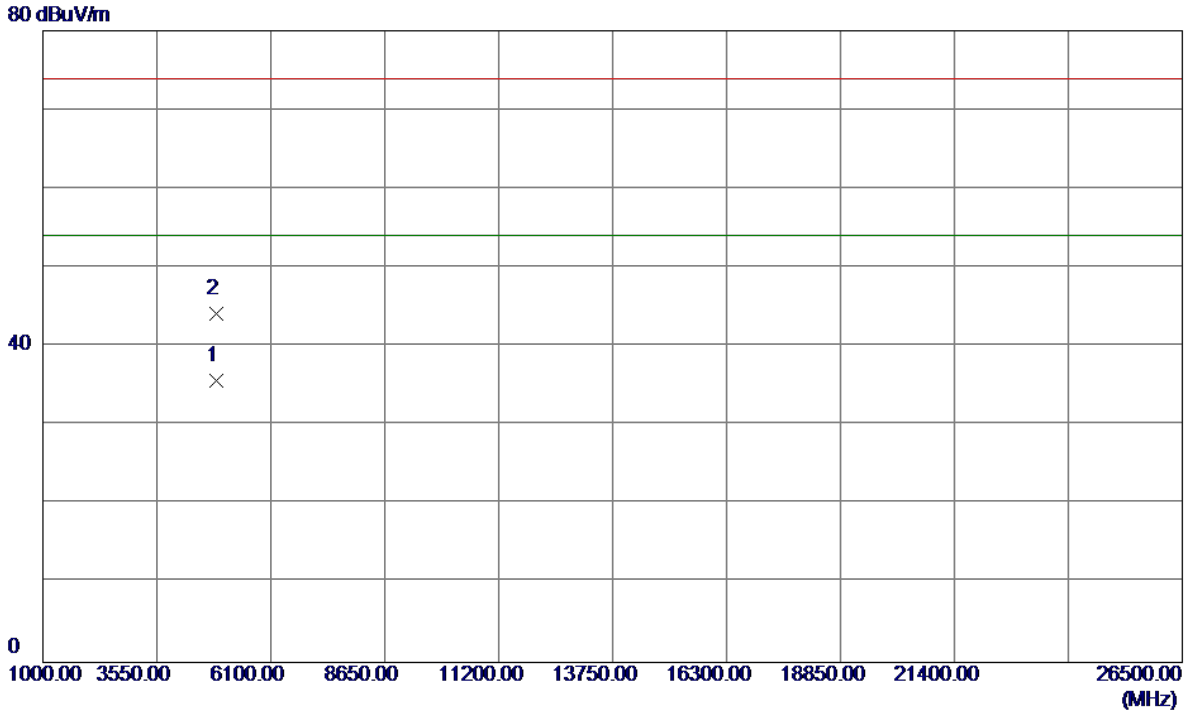
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.1000	68.85	34.50	103.35	54.00	49.35	AVG	NO LIMIT
2	2436.2000	71.76	34.50	106.26	74.00	32.26	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz(PCBA:PWR-153)

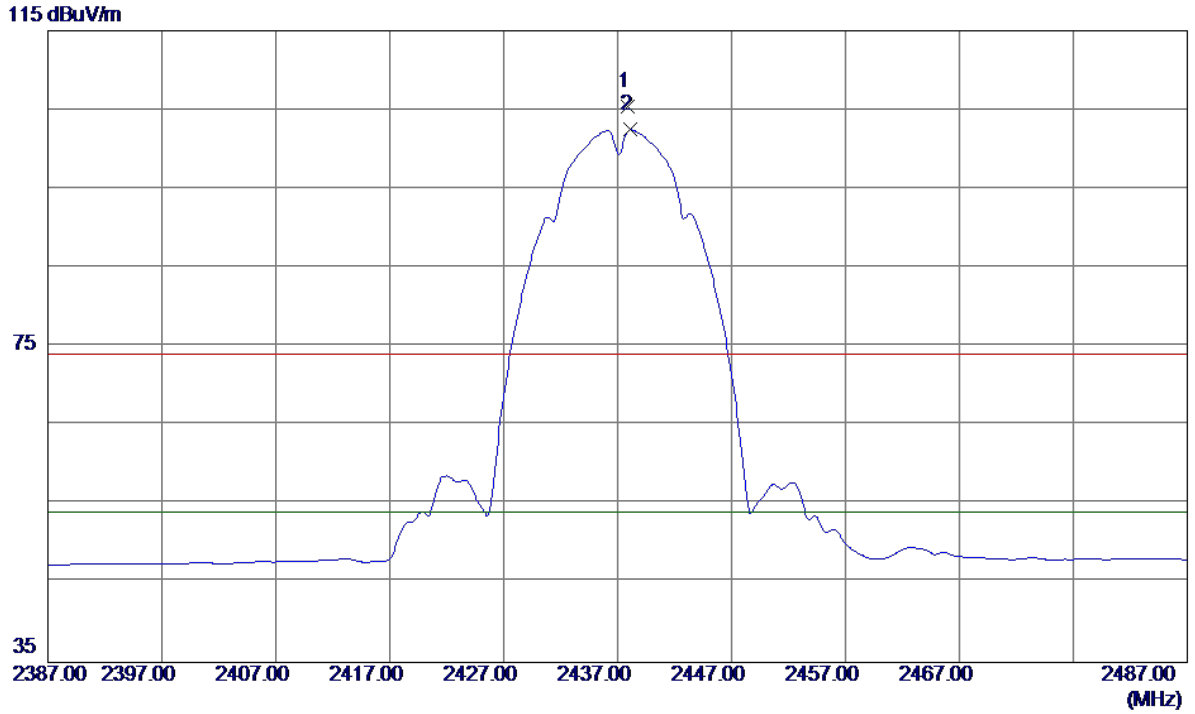
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.1500	32.59	3.03	35.62	54.00	-18.38	AVG	
2	4874.3200	41.07	3.03	44.10	74.00	-29.90	Peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz(PCBA:PWR-153)

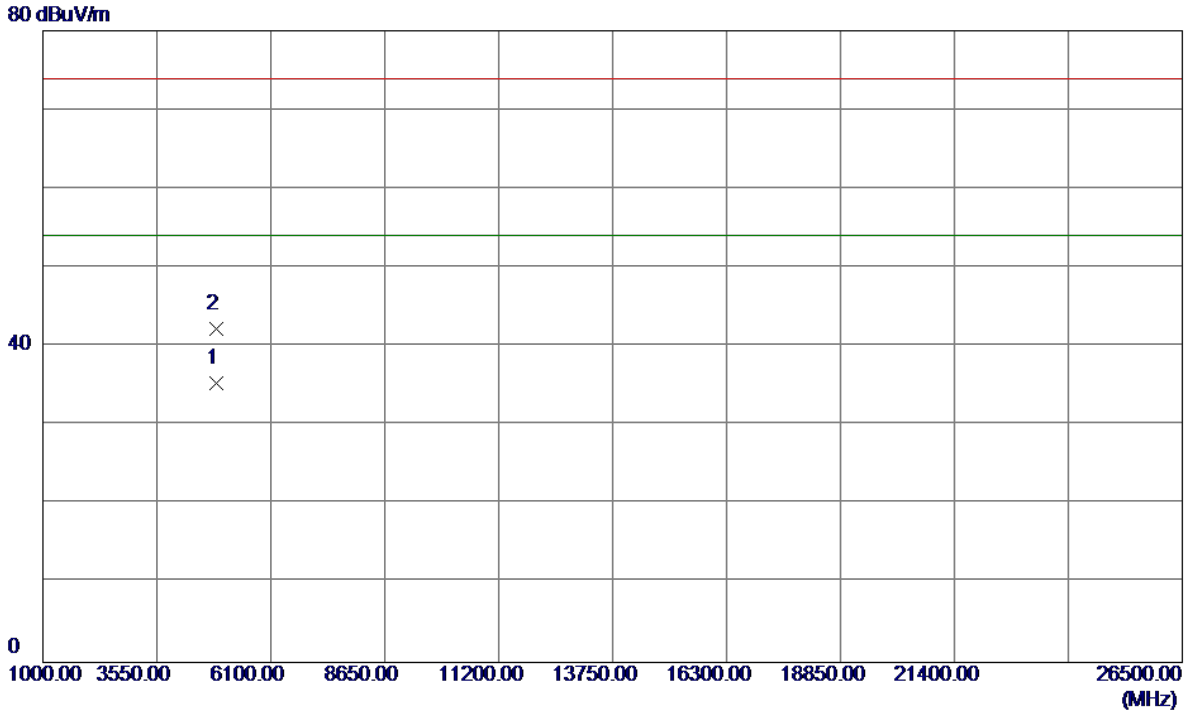
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437.9000	70.87	34.51	105.38	74.00	31.38	Peak	NO LIMIT
2	2438.1000	67.97	34.51	102.48	54.00	48.48	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz(PCBA:PWR-153)

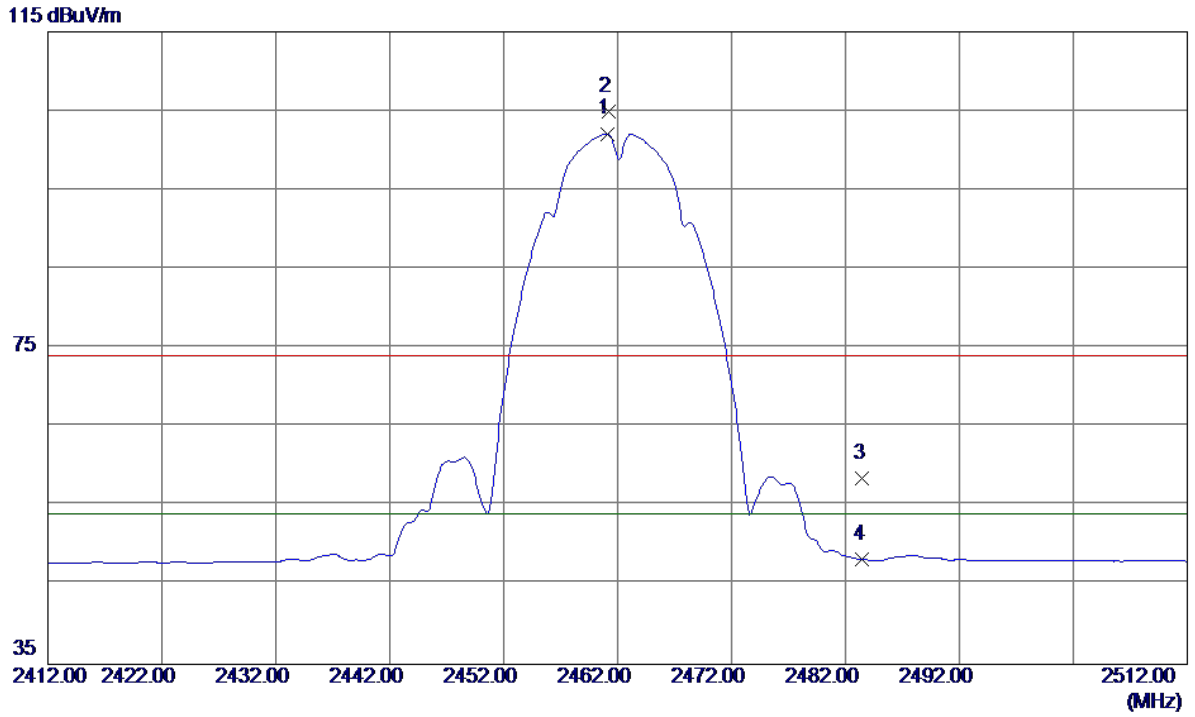
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.1500	32.26	3.03	35.29	54.00	-18.71	AVG	
2	4874.2200	39.27	3.03	42.30	74.00	-31.70	Peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz(PCBA:PWR-153)

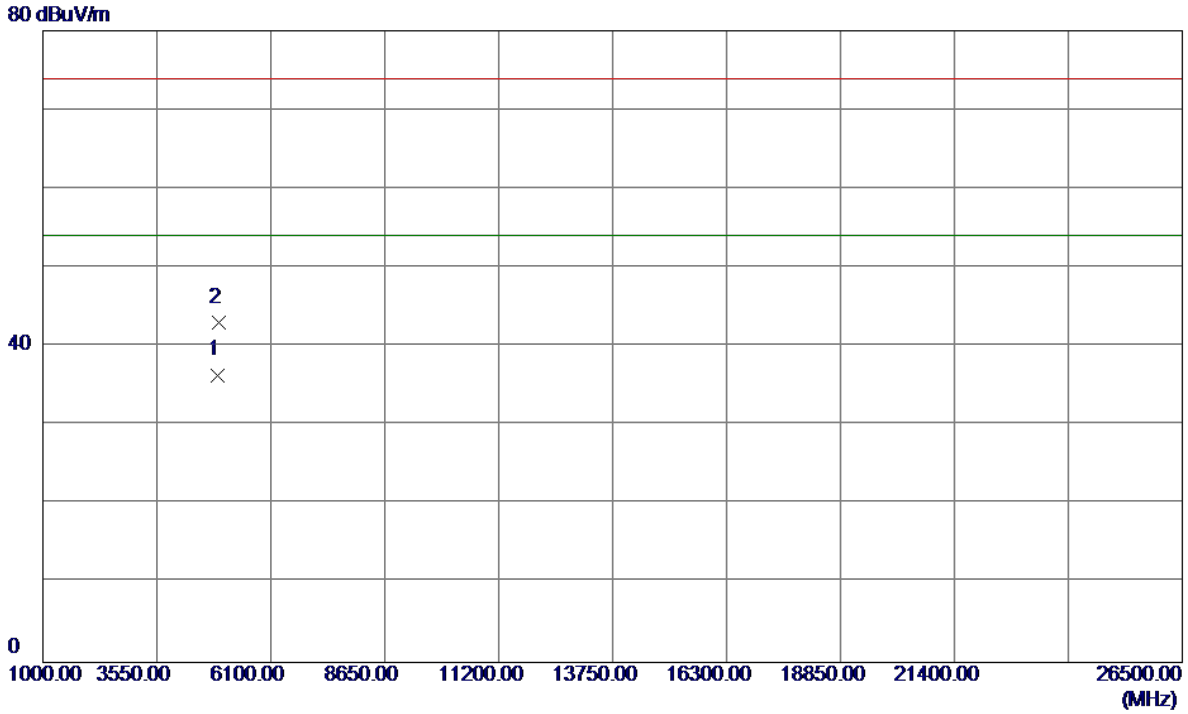
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.1000	67.48	34.64	102.12	54.00	48.12	AVG	NO LIMIT
2	2461.2000	70.32	34.64	104.96	74.00	30.96	Peak	NO LIMIT
3	2483.5000	23.68	34.77	58.45	74.00	-15.55	Peak	
4	2483.5000	13.49	34.77	48.26	54.00	-5.74	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz(PCBA:PWR-153)

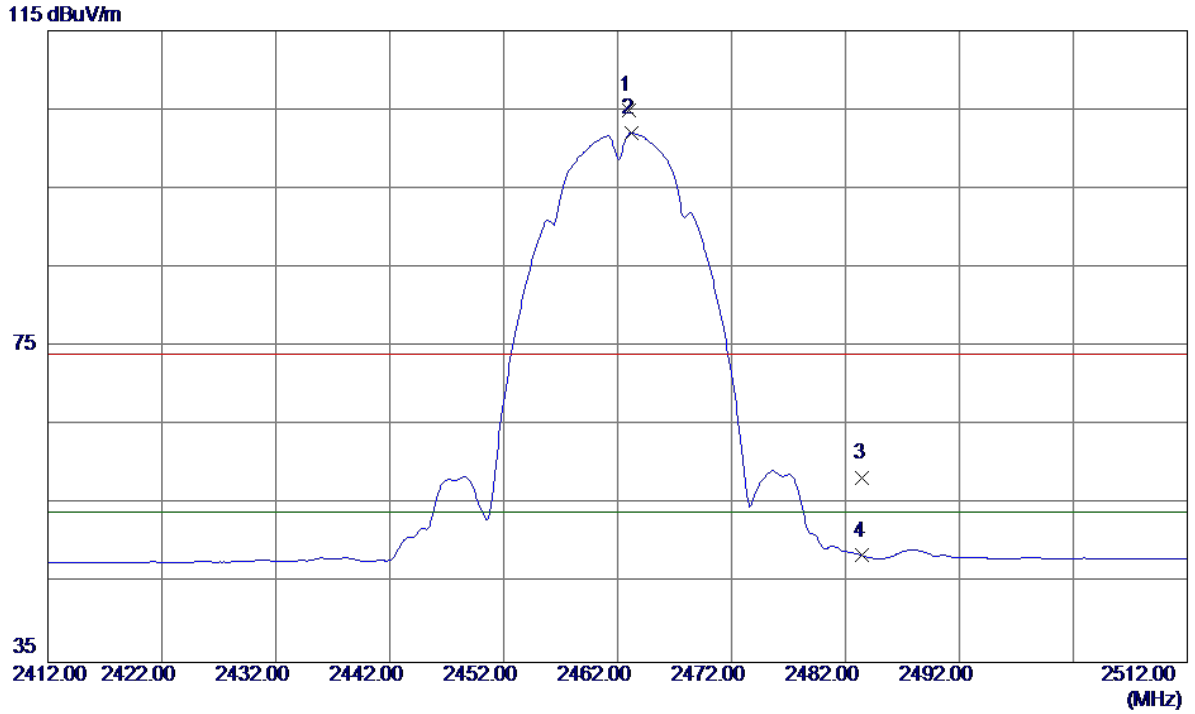
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.1500	33.35	3.05	36.40	54.00	-17.60	AVG	
2	4924.2300	39.98	3.05	43.03	74.00	-30.97	Peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz(PCBA:PWR-153)

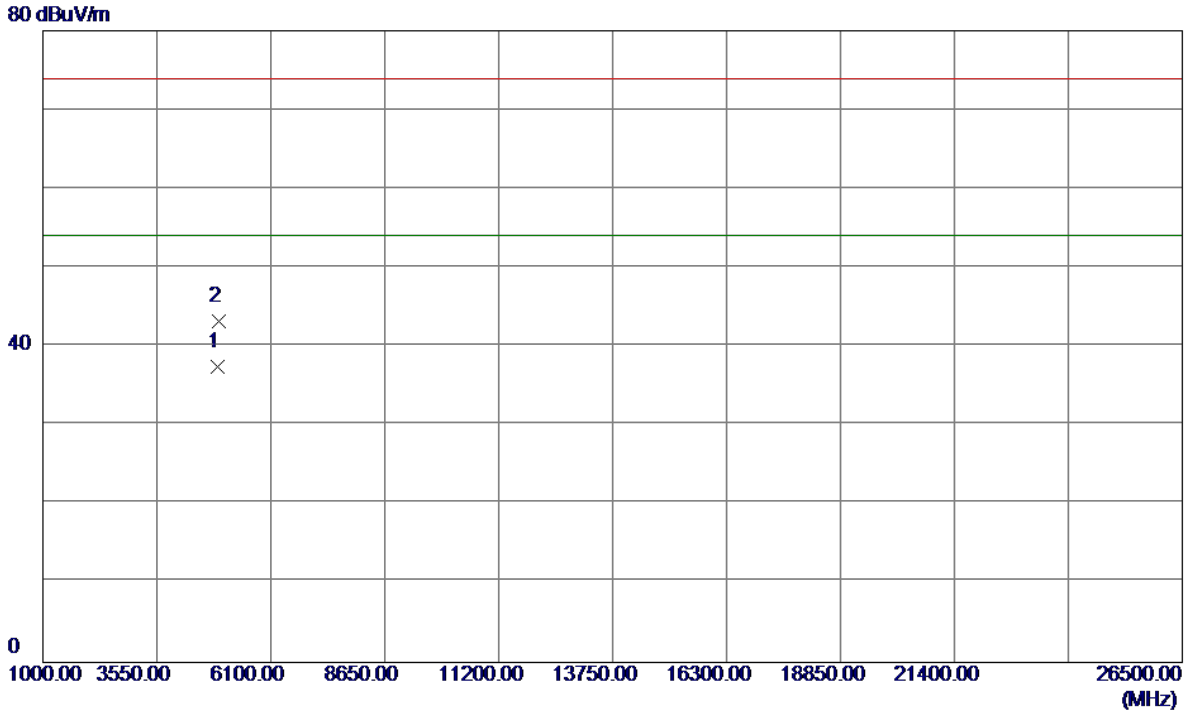
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463.0000	70.20	34.66	104.86	74.00	30.86	Peak	NO LIMIT
2	2463.2000	67.37	34.66	102.03	54.00	48.03	AVG	NO LIMIT
3	2483.5000	23.59	34.77	58.36	74.00	-15.64	Peak	
4	2483.5000	13.75	34.77	48.52	54.00	-5.48	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz(PCBA:PWR-153)

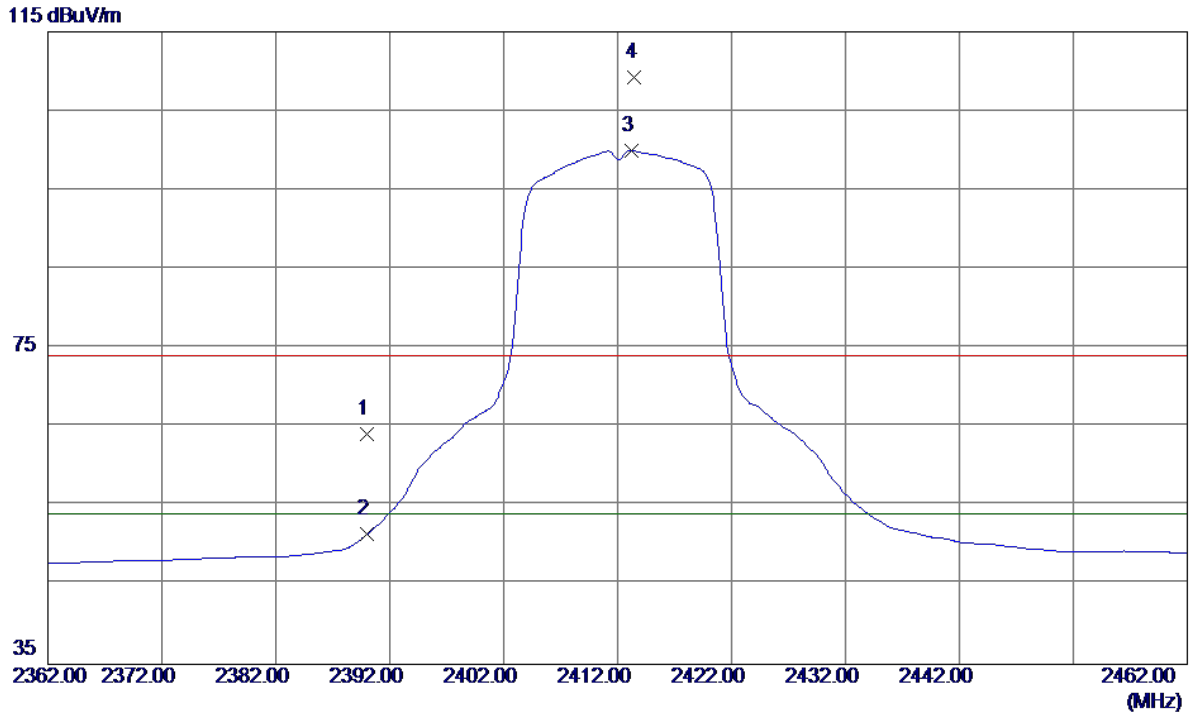
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.1500	34.34	3.05	37.39	54.00	-16.61	AVG	
2	4924.2599	40.17	3.05	43.22	74.00	-30.78	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz(PCBA:PWR-153)

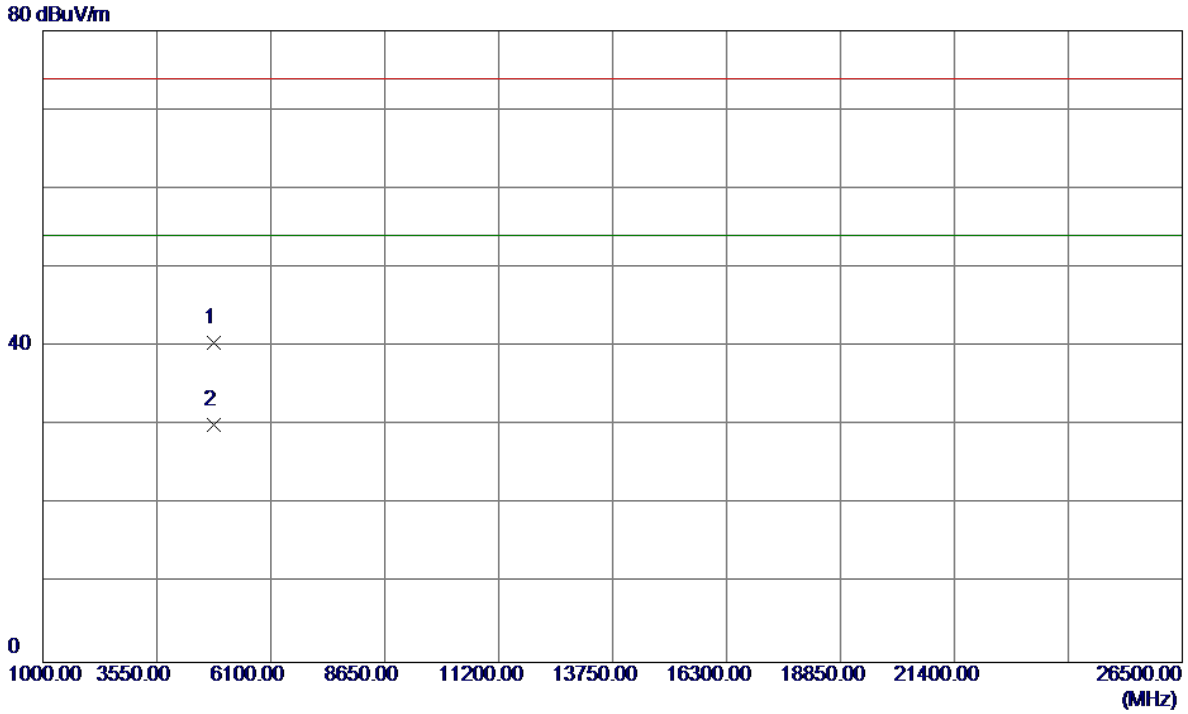
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	29.82	34.23	64.05	74.00	-9.95	Peak	
2	2390.0000	17.18	34.23	51.41	54.00	-2.59	AVG	
3	2413.2000	65.63	34.37	100.00	54.00	46.00	AVG	NO LIMIT
4	2413.5000	74.83	34.37	109.20	74.00	35.20	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz(PCBA:PWR-153)

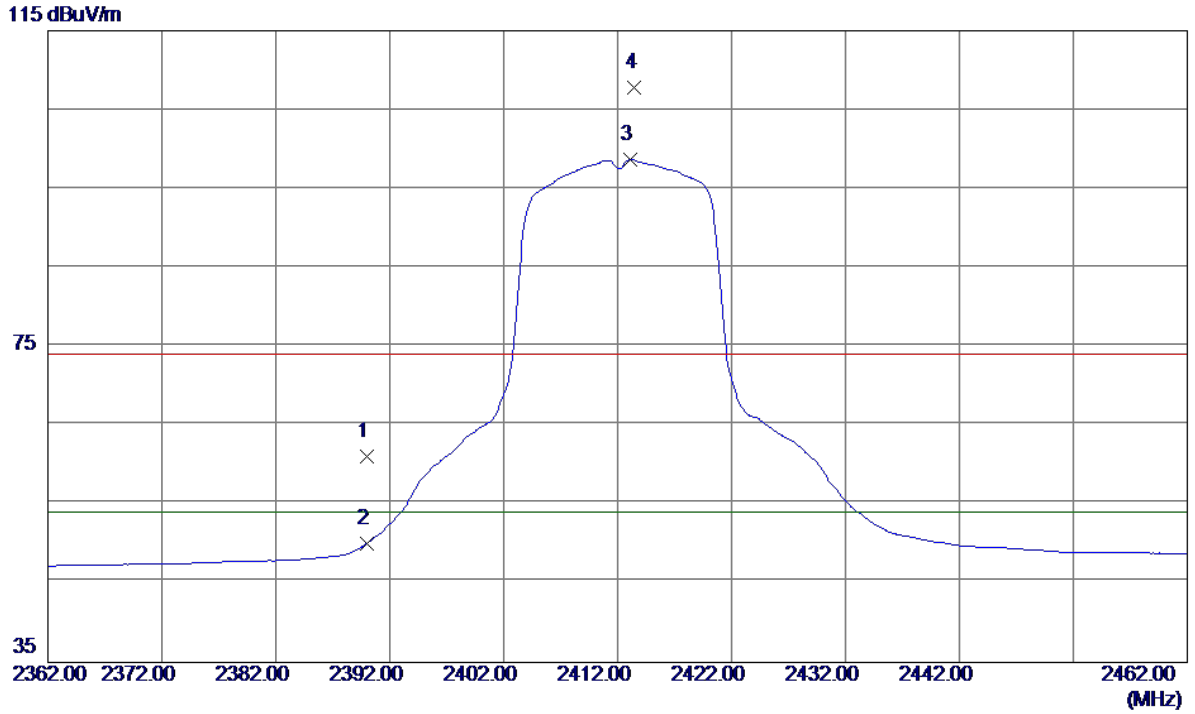
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.6000	37.50	3.00	40.50	74.00	-33.50	Peak	
2	4824.4500	27.06	3.00	30.06	54.00	-23.94	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz(PCBA:PWR-153)

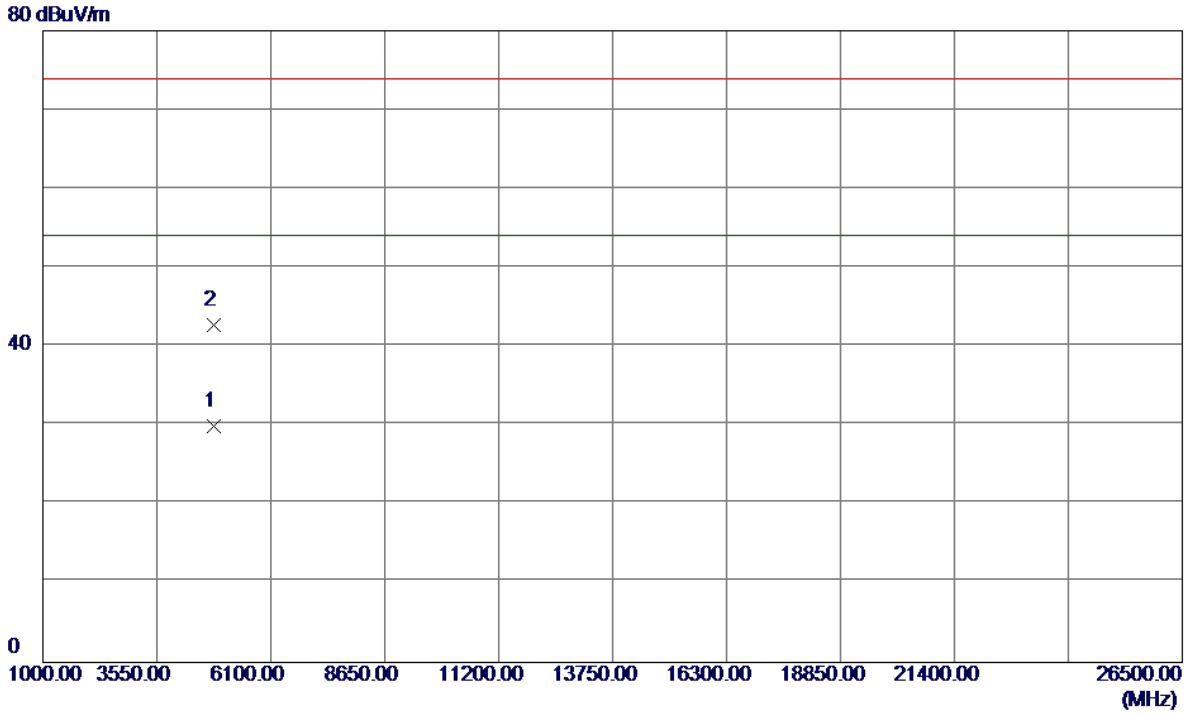
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26.86	34.23	61.09	74.00	-12.91	Peak	
2	2390.0000	15.85	34.23	50.08	54.00	-3.92	AVG	
3	2413.1000	64.28	34.37	98.65	54.00	44.65	AVG	NO LIMIT
4	2413.5000	73.50	34.37	107.87	74.00	33.87	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz(PCBA:PWR-153)

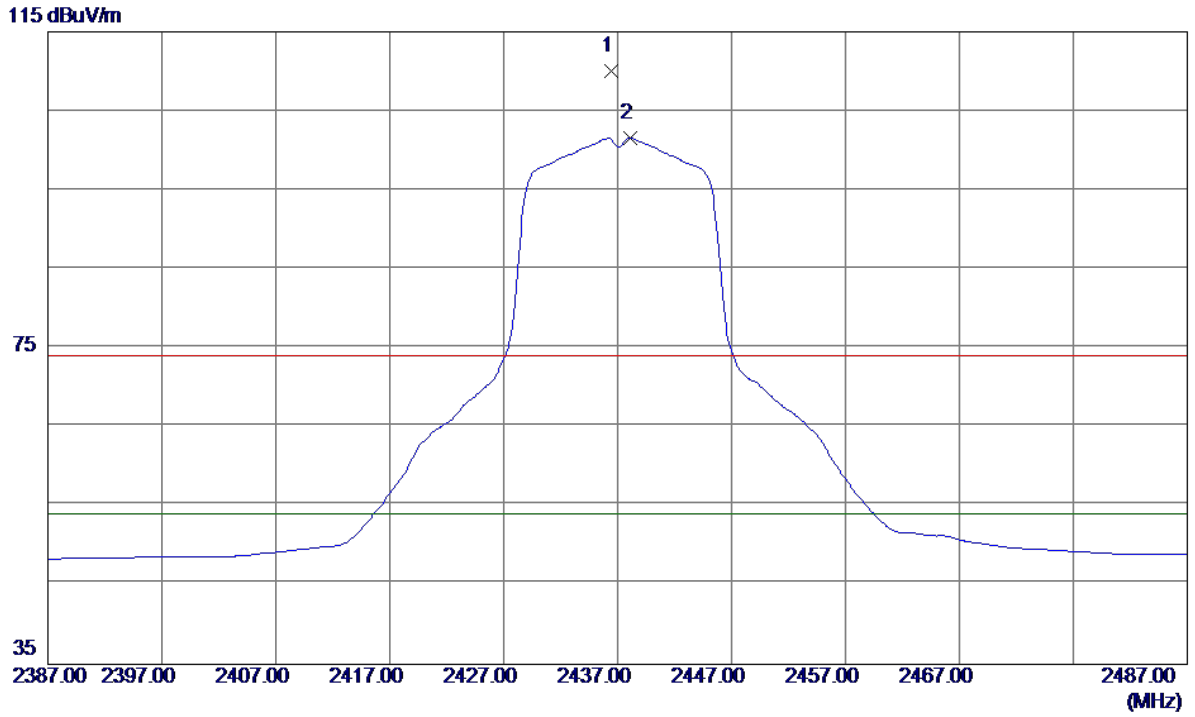
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0750	26.85	3.00	29.85	54.00	-24.15	AVG	
2	4824.1500	39.66	3.00	42.66	74.00	-31.34	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz(PCBA:PWR-153)

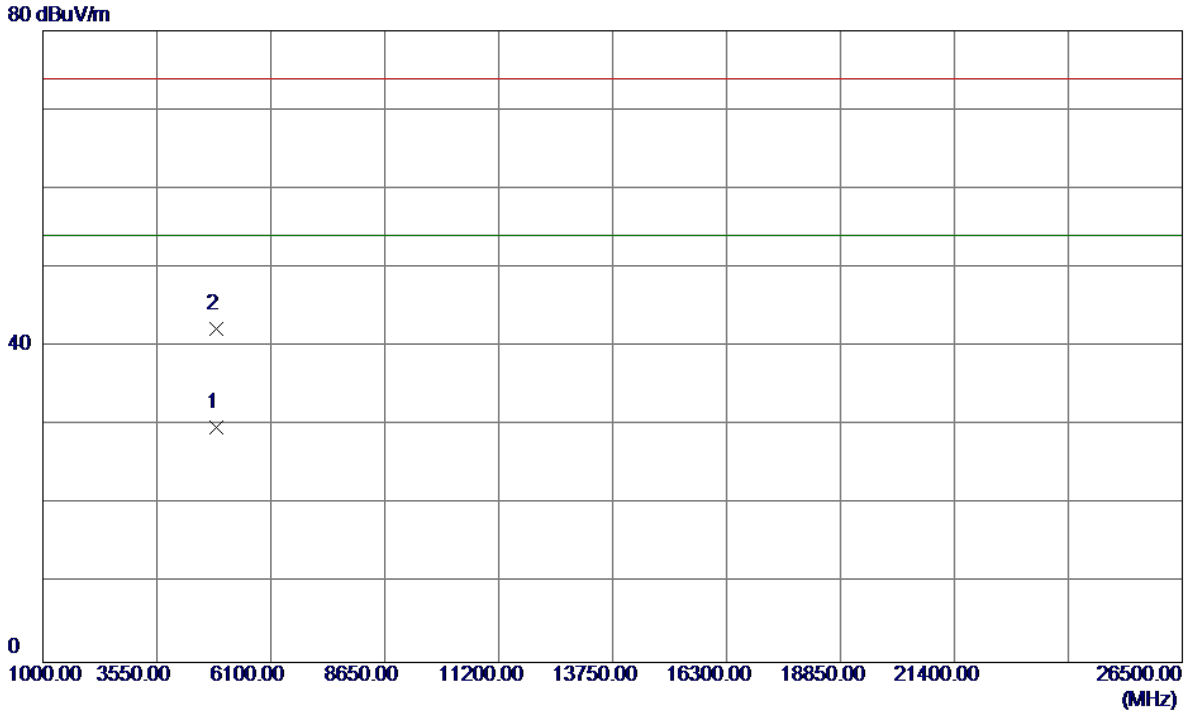
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.4000	75.60	34.50	110.10	74.00	36.10	Peak	NO LIMIT
2	2438.1000	67.02	34.51	101.53	54.00	47.53	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz(PCBA:PWR-153)

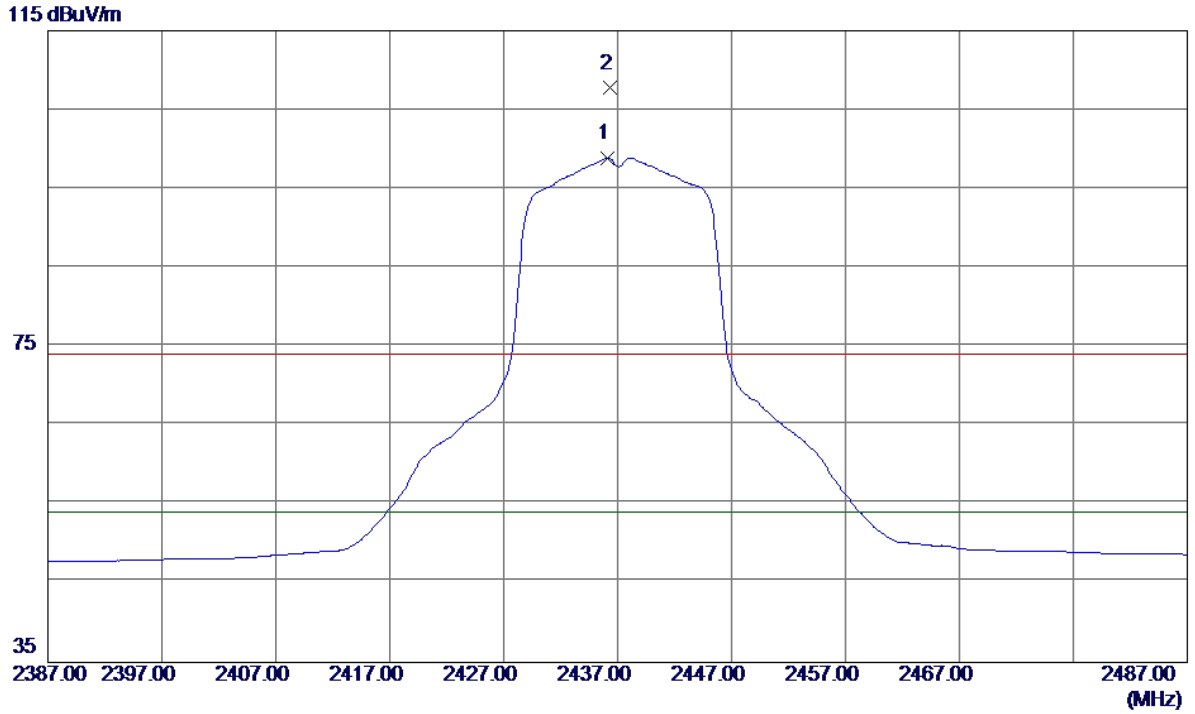
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.7500	26.77	3.03	29.80	54.00	-24.20	AVG	
2	4873.9600	39.21	3.03	42.24	74.00	-31.76	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz(PCBA:PWR-153)

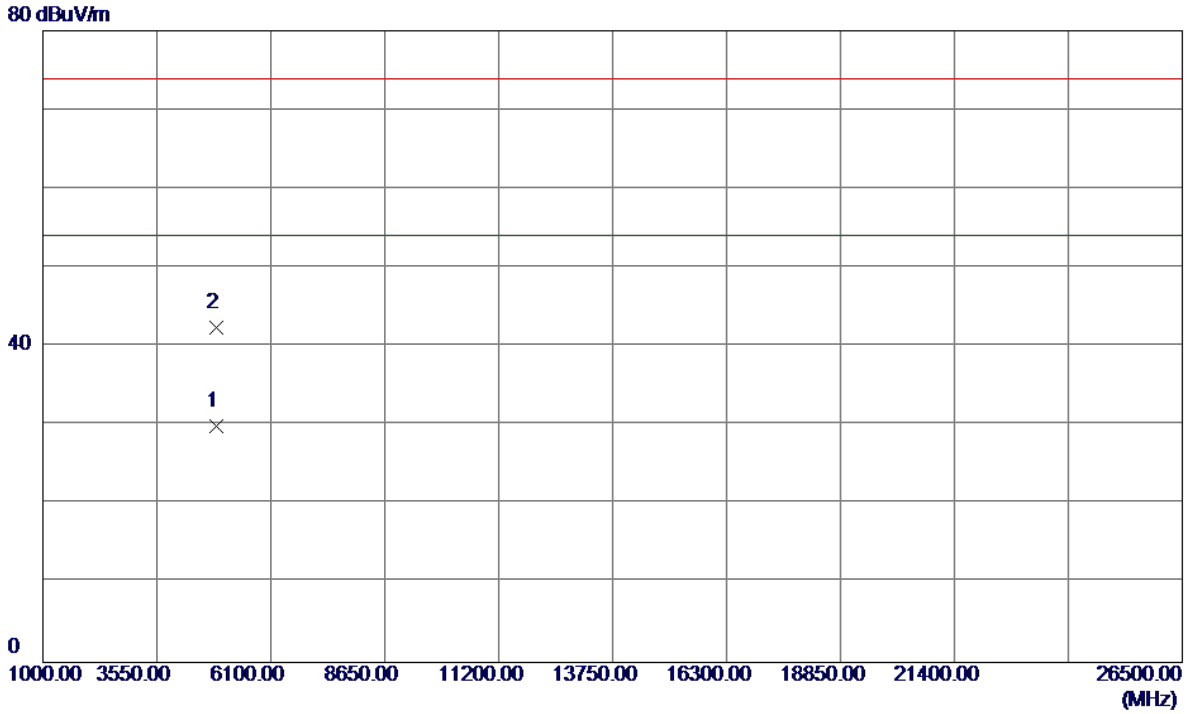
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.1000	64.33	34.50	98.83	54.00	44.83	AVG	NO LIMIT
2	2436.3000	73.22	34.50	107.72	74.00	33.72	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz(PCBA:PWR-153)

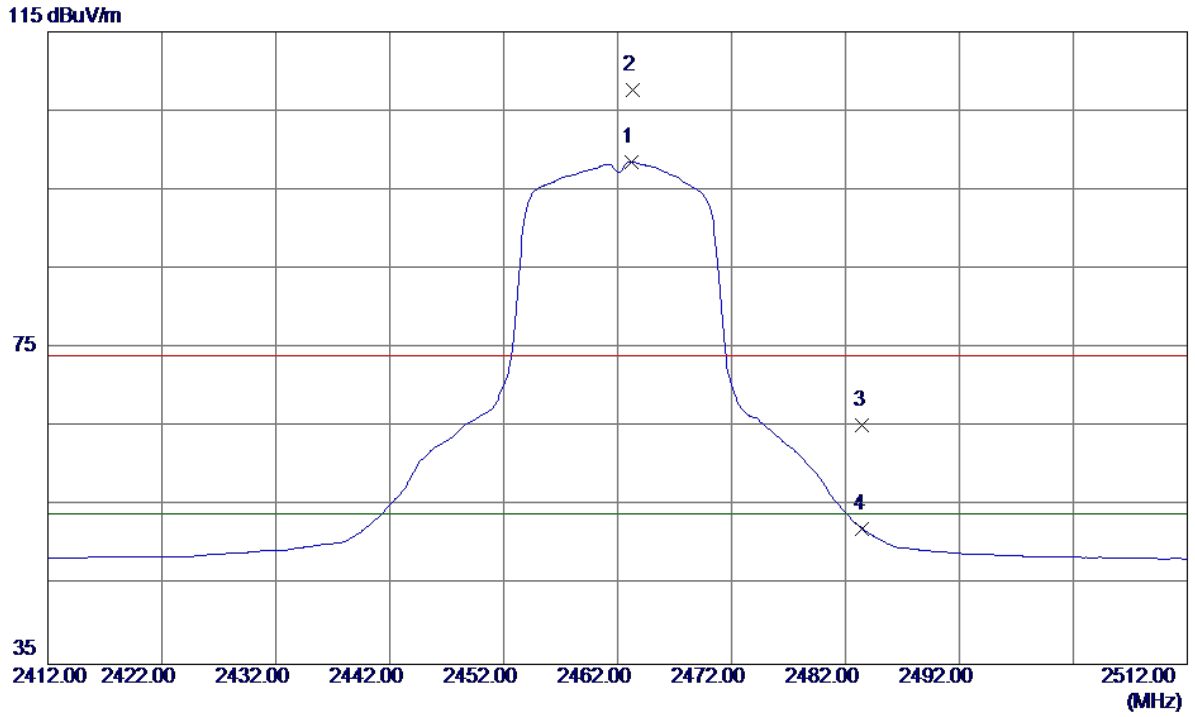
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8950	26.93	3.03	29.96	54.00	-24.04	AVG	
2	4873.9900	39.30	3.03	42.33	74.00	-31.67	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz(PCBA:PWR-153)

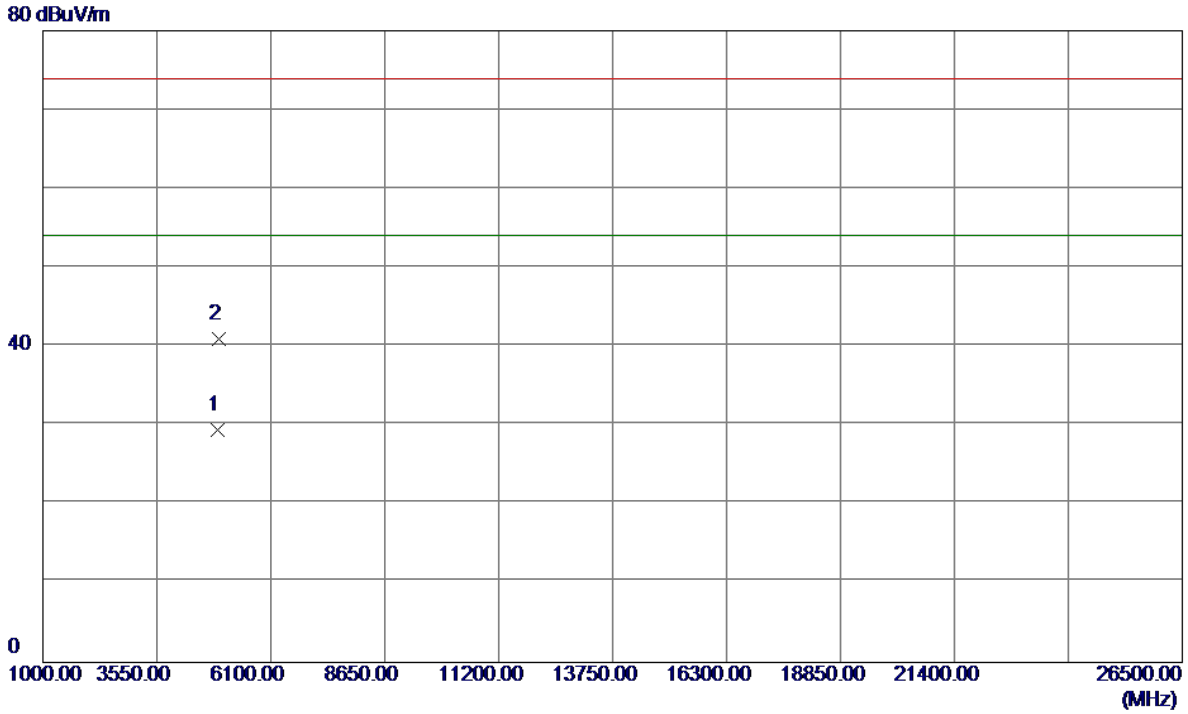
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463.2000	63.87	34.66	98.53	54.00	44.53	AVG	NO LIMIT
2	2463.3000	73.03	34.66	107.69	74.00	33.69	Peak	NO LIMIT
3	2483.5000	30.50	34.77	65.27	74.00	-8.73	Peak	
4	2483.5000	17.40	34.77	52.17	54.00	-1.83	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz(PCBA:PWR-153)

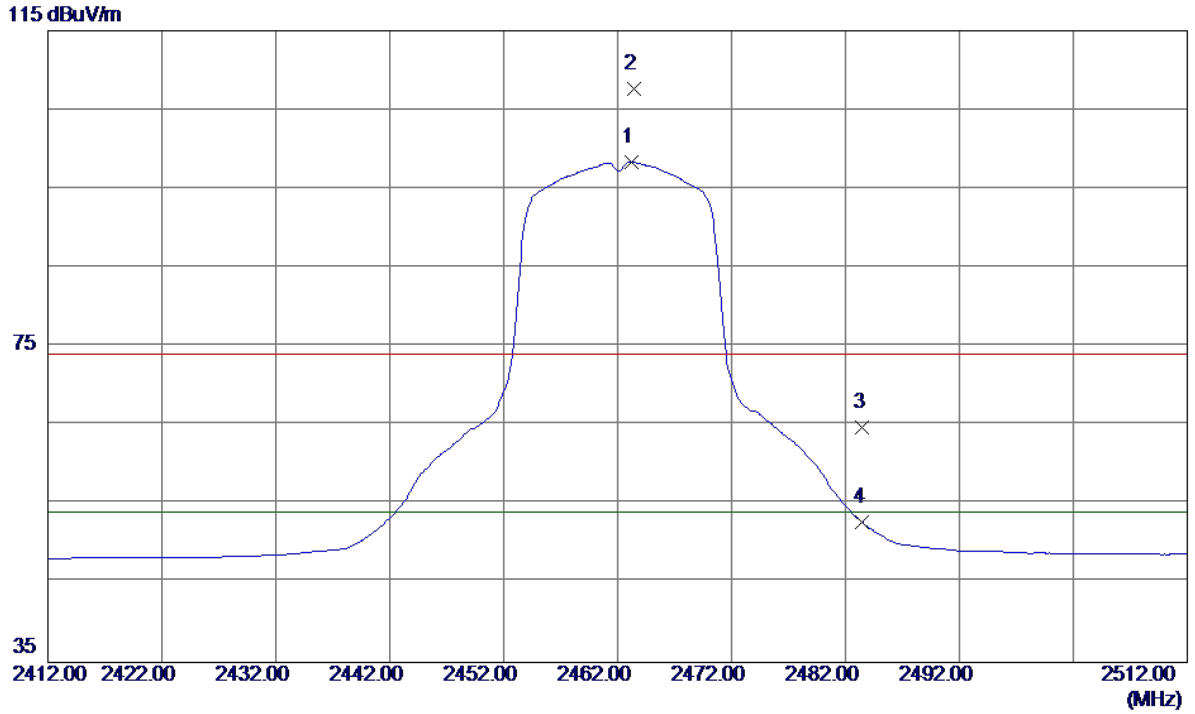
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.8550	26.46	3.05	29.51	54.00	-24.49	AVG	
2	4924.2700	37.91	3.05	40.96	74.00	-33.04	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz(PCBA:PWR-153)

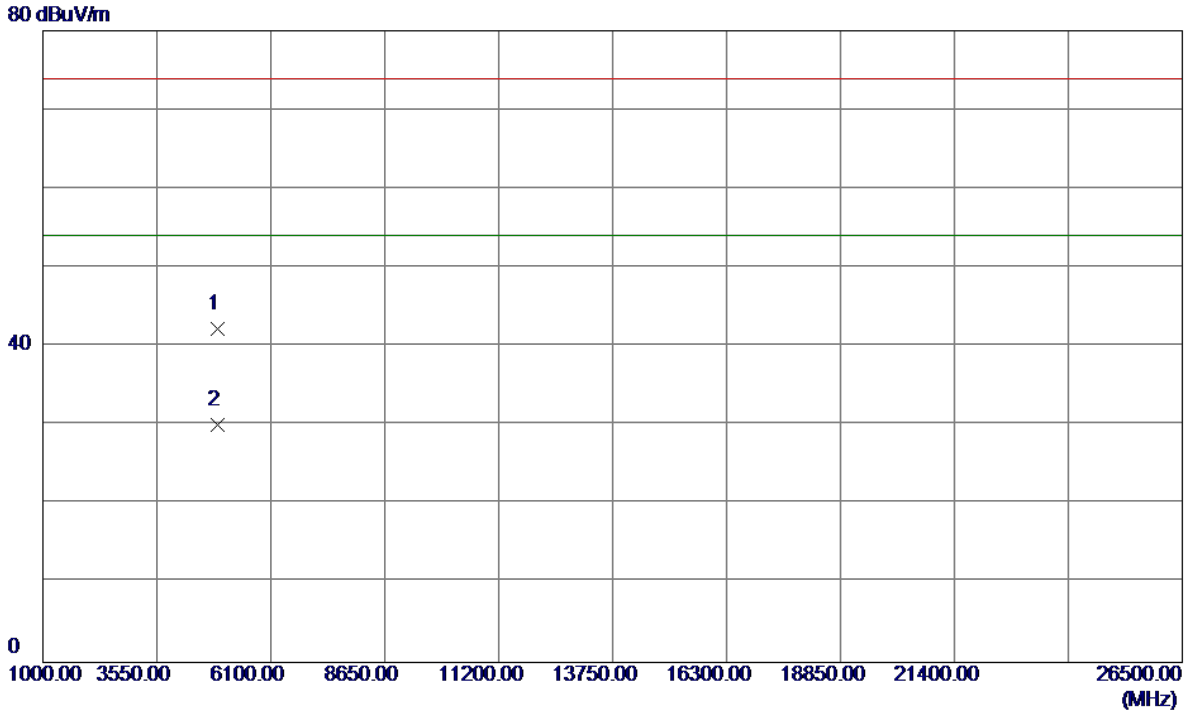
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463.2000	63.77	34.66	98.43	54.00	44.43	AVG	NO LIMIT
2	2463.4000	73.01	34.66	107.67	74.00	33.67	Peak	NO LIMIT
3	2483.5000	30.07	34.77	64.84	74.00	-9.16	Peak	
4	2483.5000	17.92	34.77	52.69	54.00	-1.31	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz(PCBA:PWR-153)

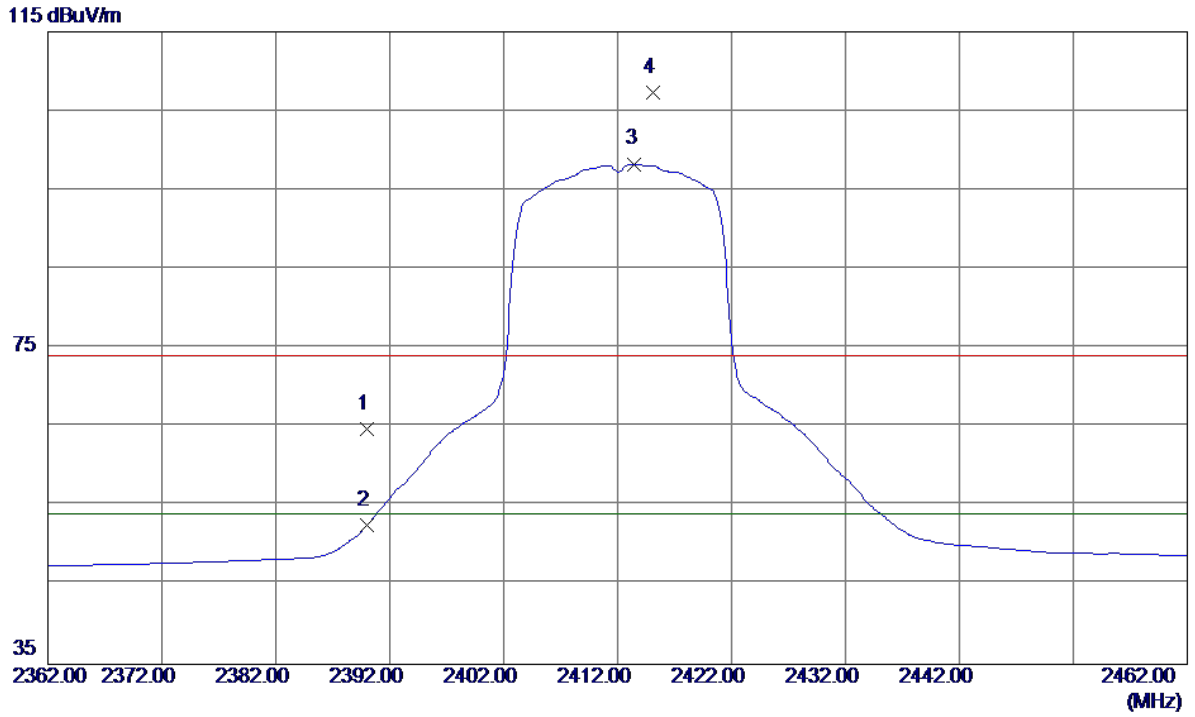
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.8550	39.17	3.05	42.22	74.00	-31.78	Peak	
2	4924.0900	26.99	3.05	30.04	54.00	-23.96	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz(PCBA:PWR-153)

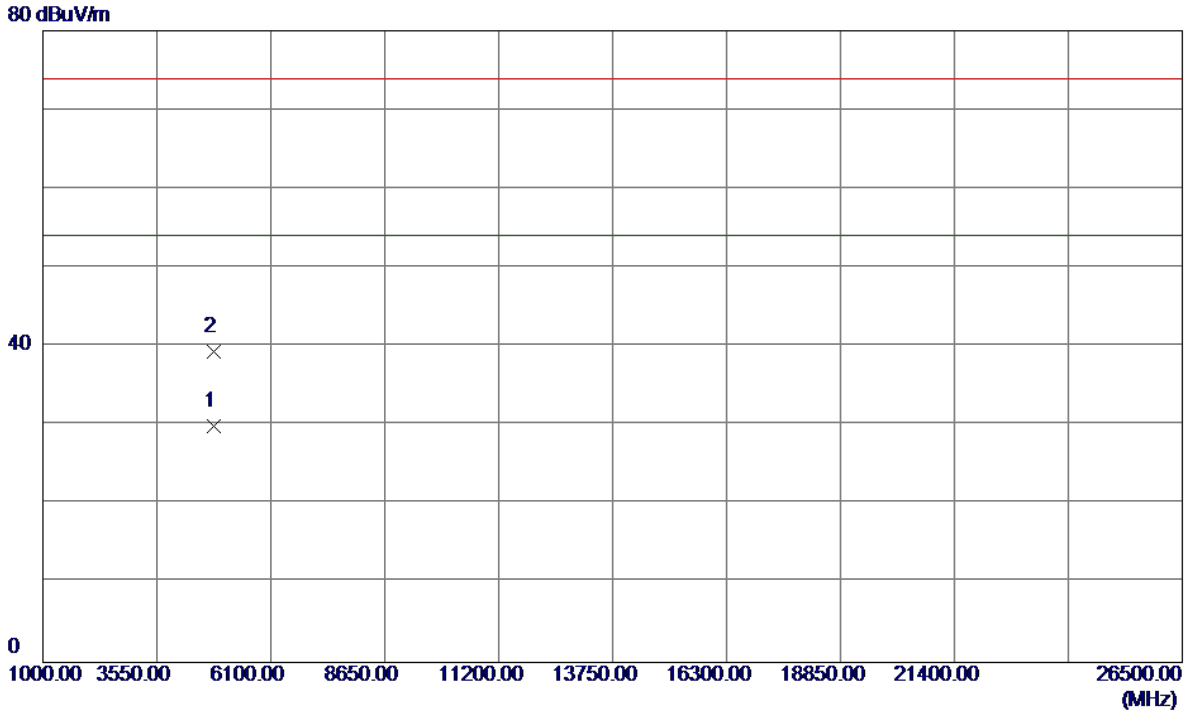
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	30.47	34.23	64.70	74.00	-9.30	Peak	
2	2390.0000	18.32	34.23	52.55	54.00	-1.45	AVG	
3	2413.5000	63.91	34.37	98.28	54.00	44.28	AVG	NO LIMIT
4	2415.1000	72.87	34.38	107.25	74.00	33.25	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz(PCBA:PWR-153)

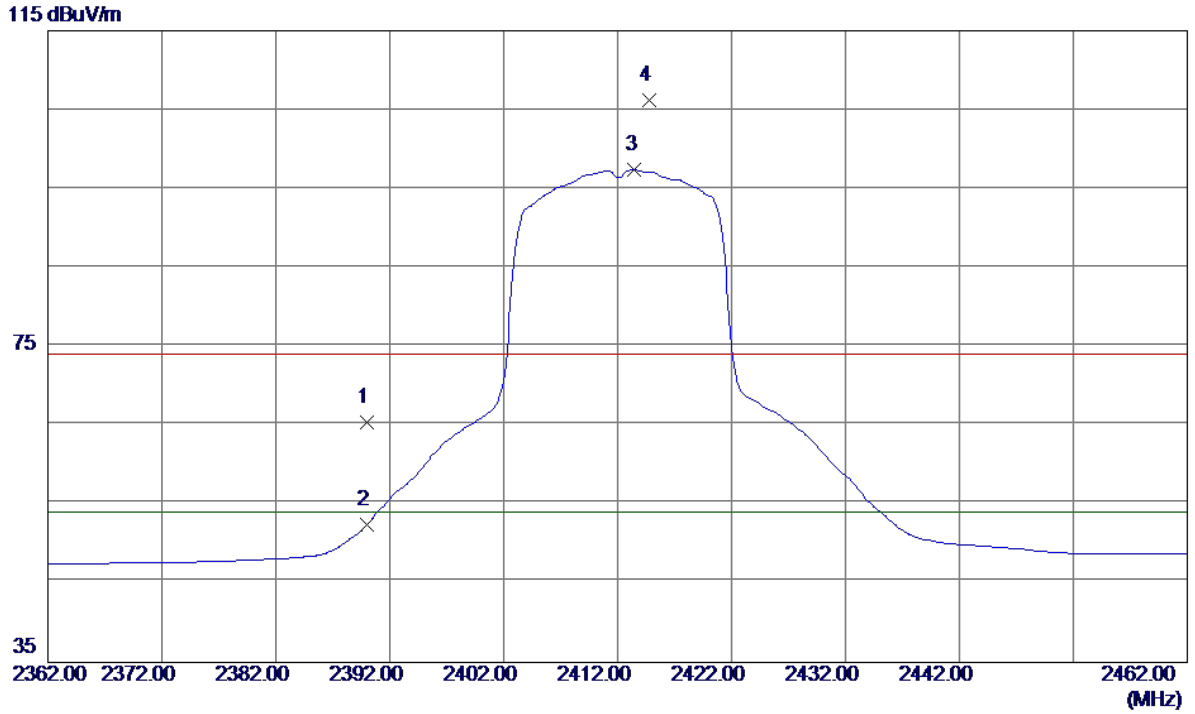
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.1300	26.85	3.00	29.85	54.00	-24.15	AVG	
2	4824.2900	36.40	3.00	39.40	74.00	-34.60	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz(PCBA:PWR-153)

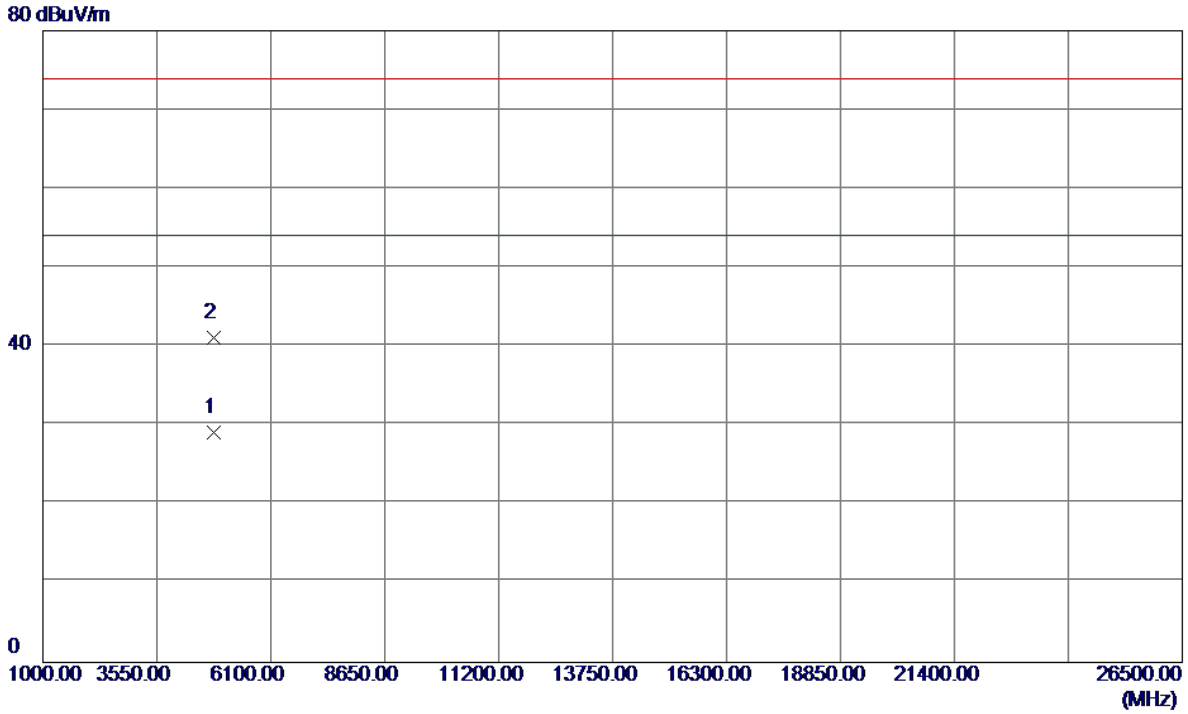
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	31.15	34.23	65.38	74.00	-8.62	Peak	
2	2390.0000	18.22	34.23	52.45	54.00	-1.55	AVG	
3	2413.5000	62.97	34.37	97.34	54.00	43.34	AVG	NO LIMIT
4	2414.8000	71.85	34.38	106.23	74.00	32.23	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz(PCBA:PWR-153)

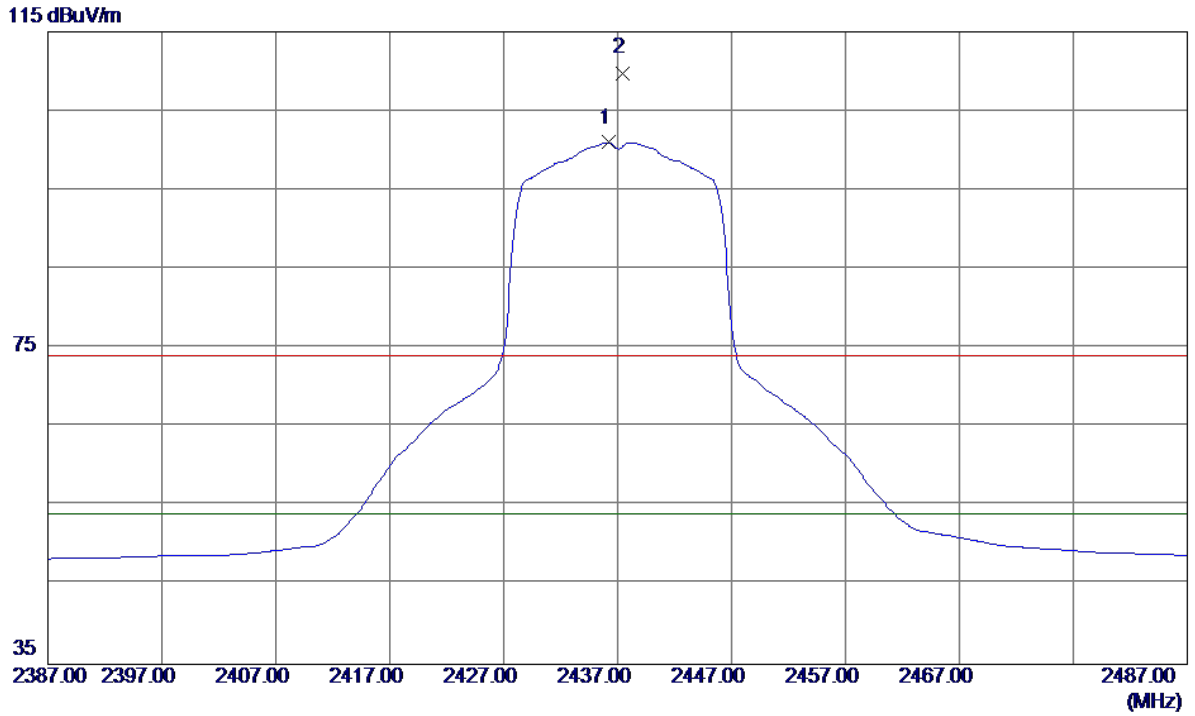
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.1500	26.19	3.00	29.19	54.00	-24.81	AVG	
2	4824.2200	38.10	3.00	41.10	74.00	-32.90	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz(PCBA:PWR-153)

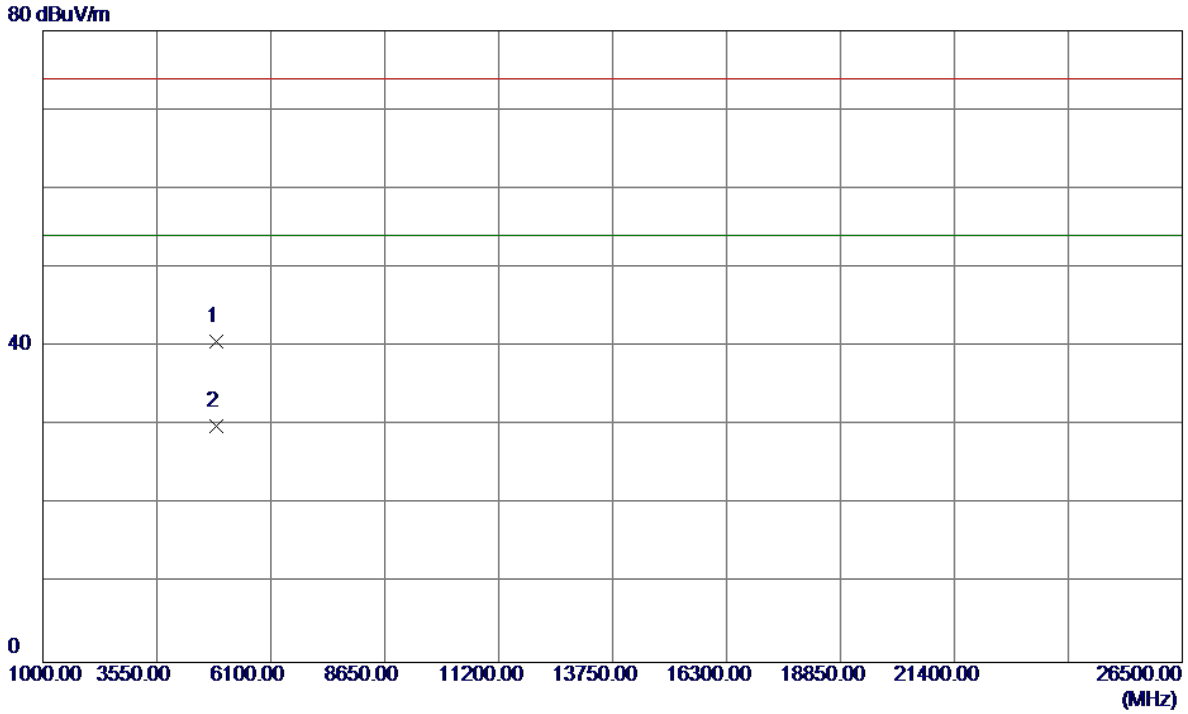
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.2000	66.50	34.50	101.00	54.00	47.00	AVG	NO LIMIT
2	2437.4000	75.29	34.51	109.80	74.00	35.80	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz(PCBA:PWR-153)

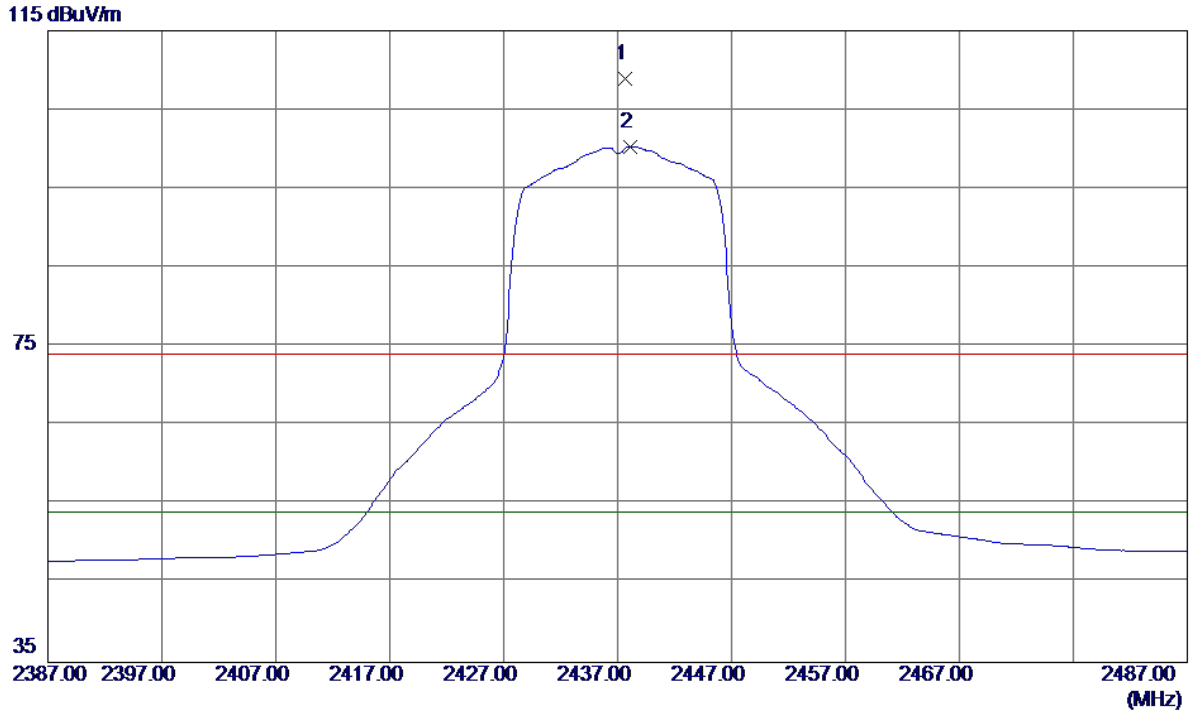
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8700	37.58	3.03	40.61	74.00	-33.39	Peak	
2	4873.8800	26.85	3.03	29.88	54.00	-24.12	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz(PCBA:PWR-153)

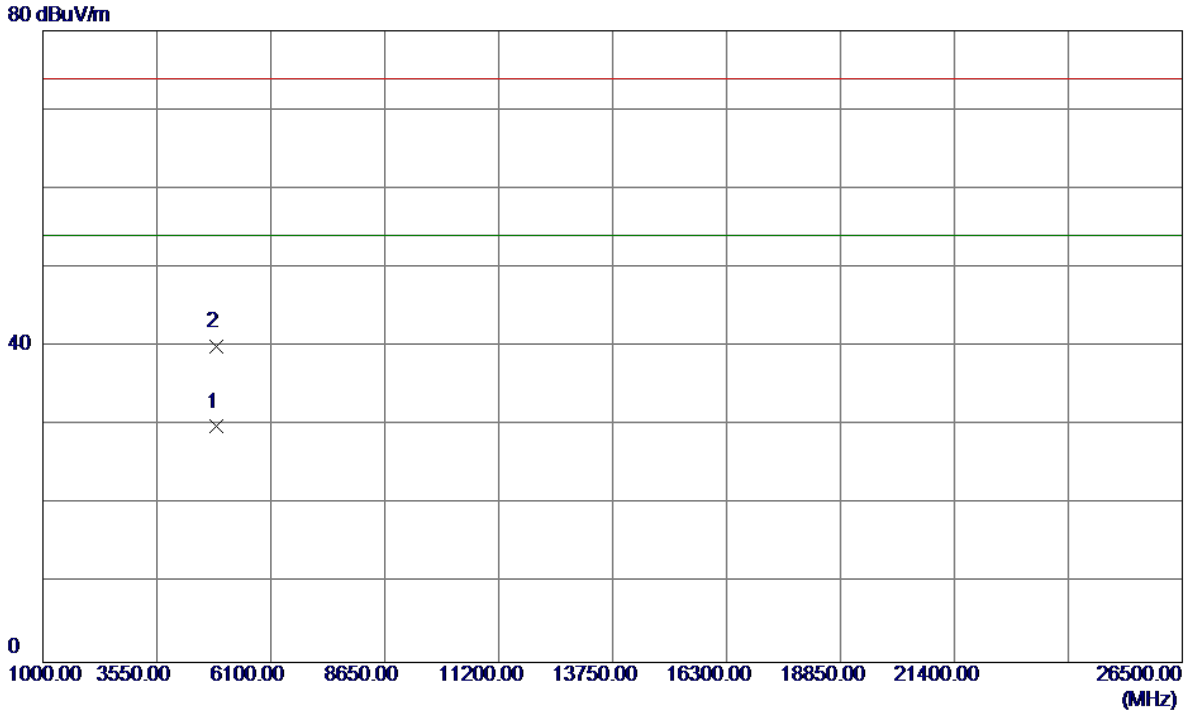
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437.7000	74.40	34.51	108.91	74.00	34.91	Peak	NO LIMIT
2	2438.1000	65.84	34.51	100.35	54.00	46.35	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz(PCBA:PWR-153)

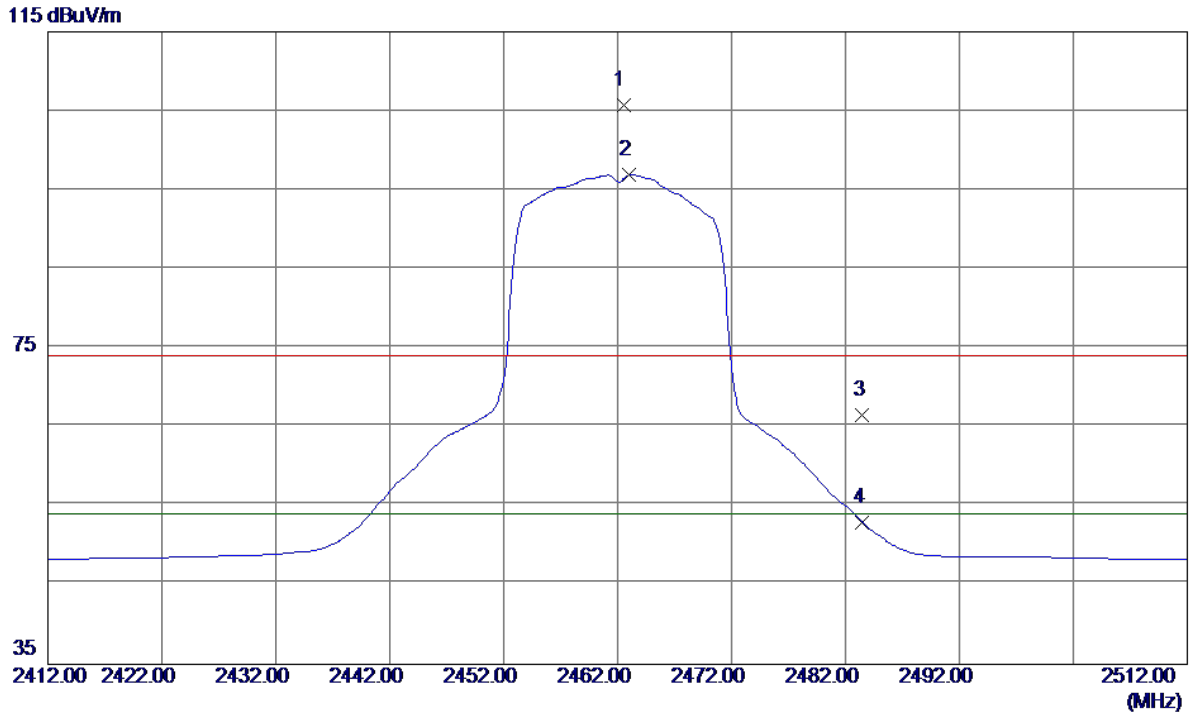
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.6700	26.81	3.03	29.84	54.00	-24.16	AVG	
2	4874.0700	37.01	3.03	40.04	74.00	-33.96	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz(PCBA:PWR-153)

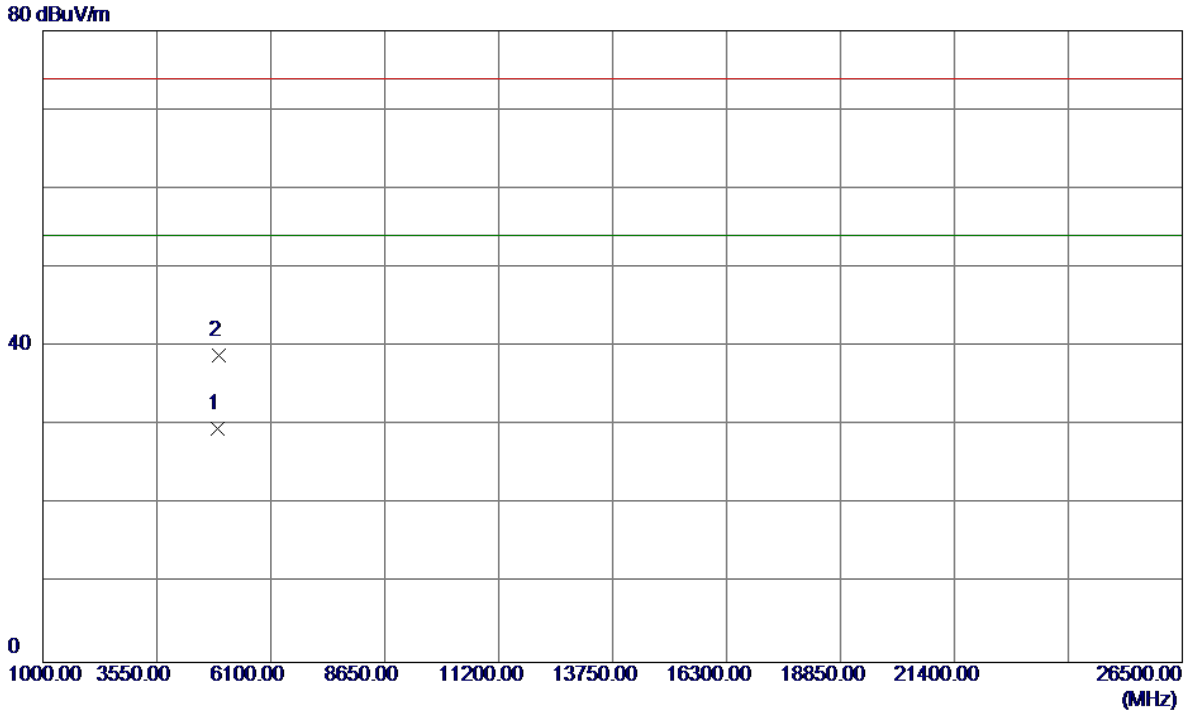
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2462.5000	71.11	34.65	105.76	74.00	31.76	Peak	NO LIMIT
2	2463.0000	62.22	34.66	96.88	54.00	42.88	AVG	NO LIMIT
3	2483.5000	31.71	34.77	66.48	74.00	-7.52	Peak	
4	2483.5000	18.22	34.77	52.99	54.00	-1.01	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz(PCBA:PWR-153)

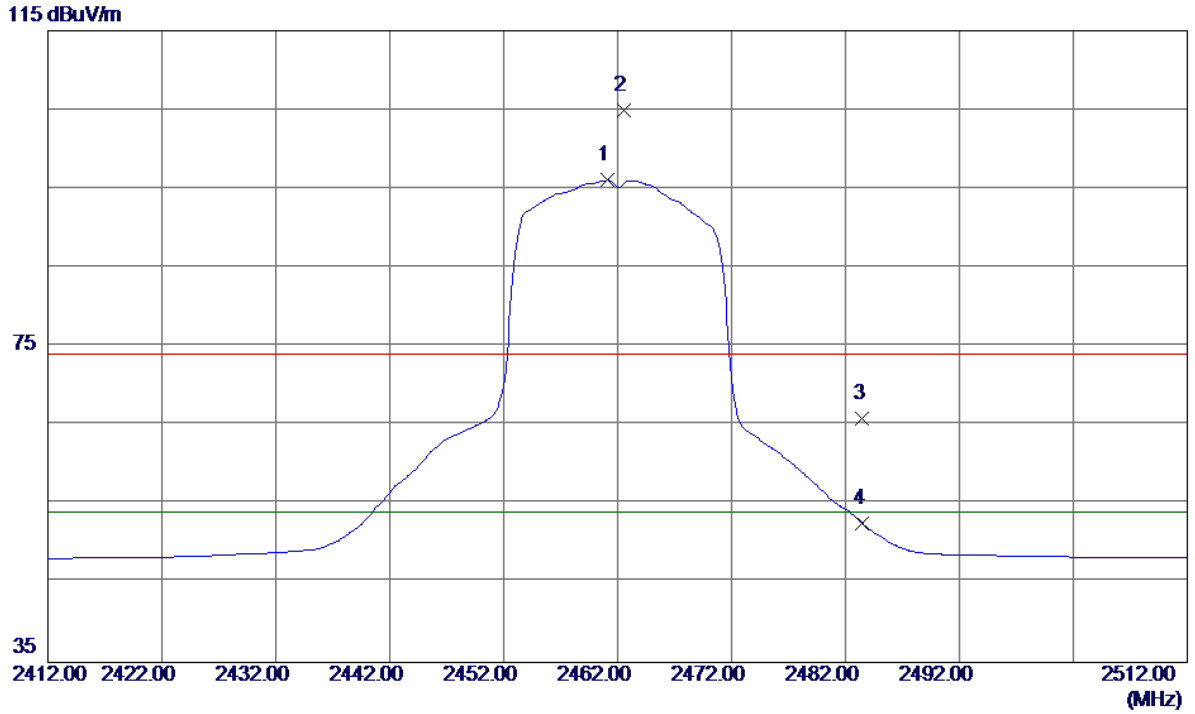
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0200	26.48	3.05	29.53	54.00	-24.47	AVG	
2	4924.1800	35.88	3.05	38.93	74.00	-35.07	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz(PCBA:PWR-153)

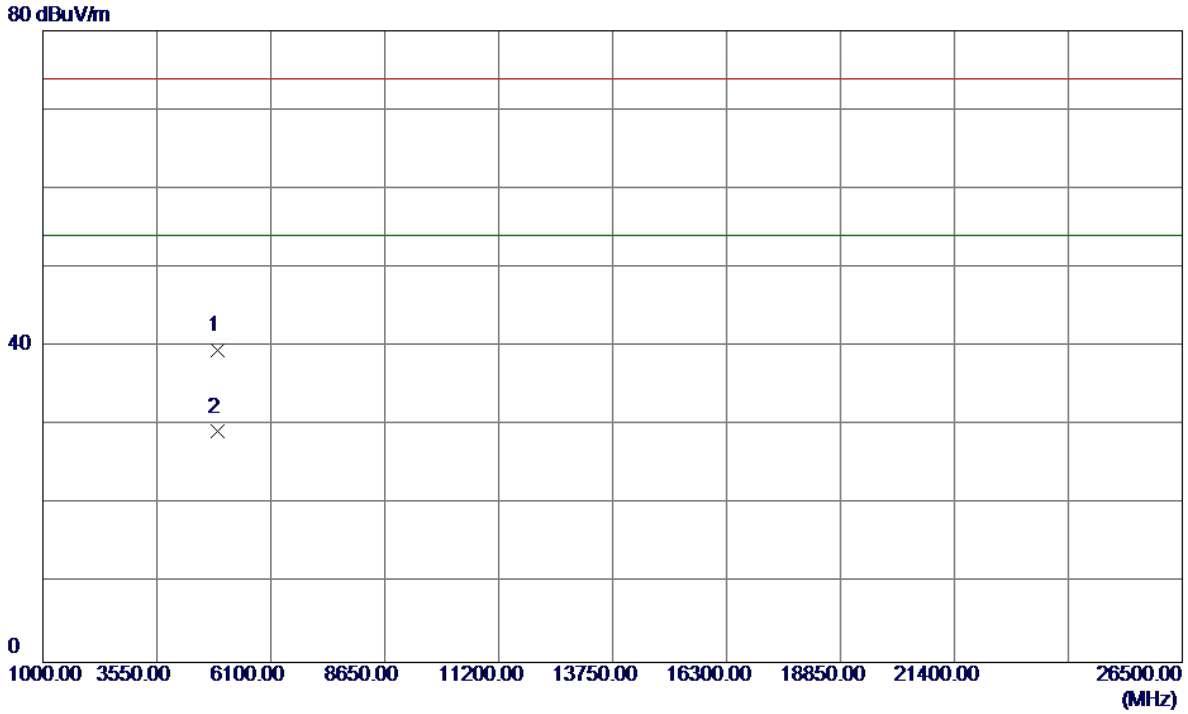
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.1000	61.41	34.64	96.05	54.00	42.05	AVG	NO LIMIT
2	2462.6000	70.28	34.65	104.93	74.00	30.93	Peak	NO LIMIT
3	2483.5000	31.10	34.77	65.87	74.00	-8.13	Peak	
4	2483.5000	17.86	34.77	52.63	54.00	-1.37	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz(PCBA:PWR-153)

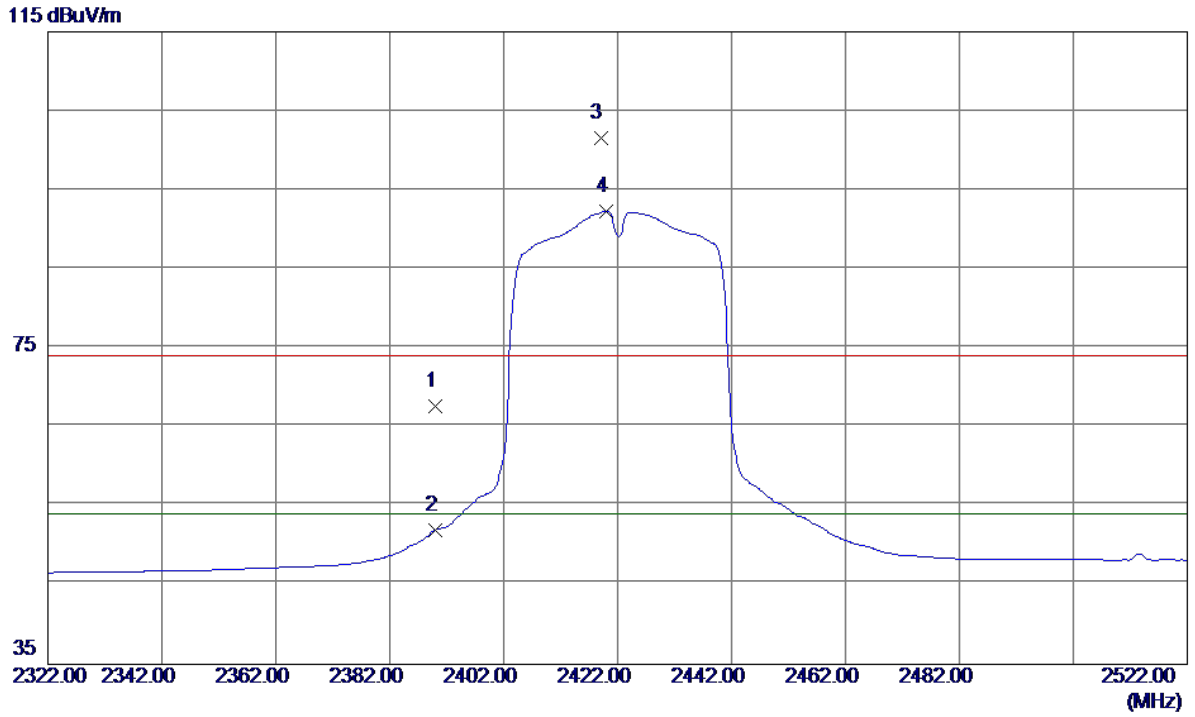
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9400	36.42	3.05	39.47	74.00	-34.53	Peak	
2	4923.9400	26.15	3.05	29.20	54.00	-24.80	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz(PCBA:PWR-153)

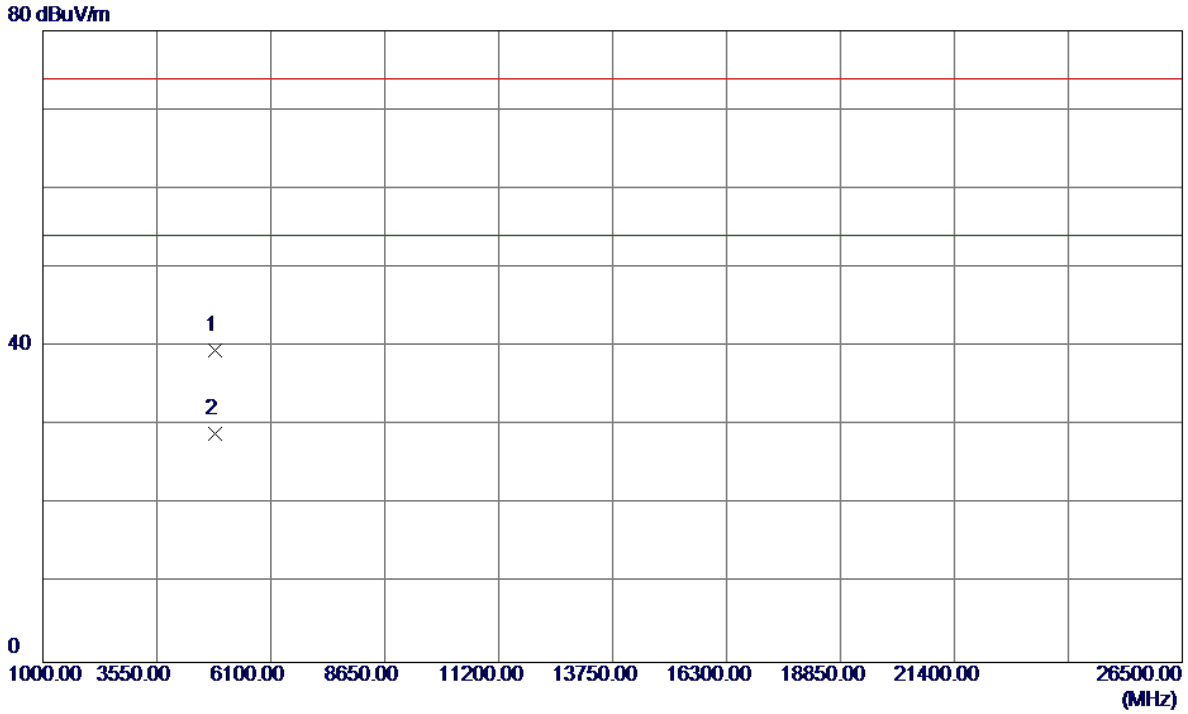
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	33.39	34.23	67.62	74.00	-6.38	Peak	
2	2390.0000	17.77	34.23	52.00	54.00	-2.00	AVG	
3	2419.0000	67.22	34.40	101.62	74.00	27.62	Peak	NO LIMIT
4	2420.0000	57.85	34.41	92.26	54.00	38.26	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz(PCBA:PWR-153)

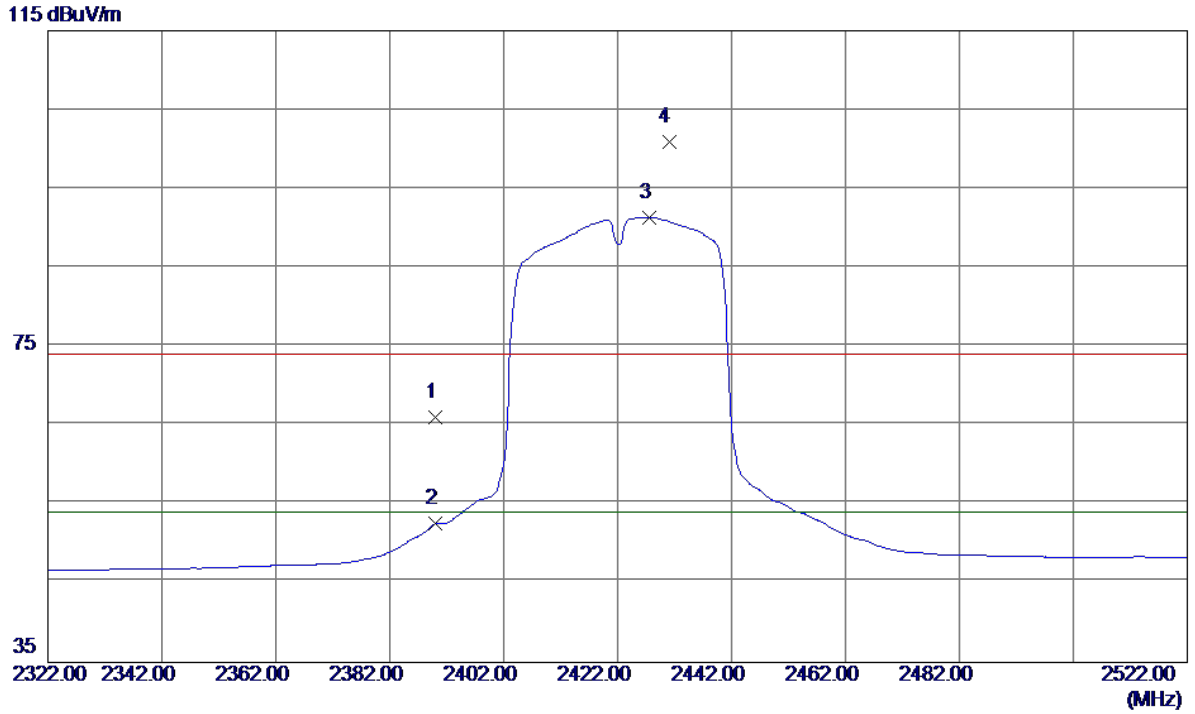
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.7900	36.45	3.01	39.46	74.00	-34.54	Peak	
2	4844.0600	25.96	3.01	28.97	54.00	-25.03	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz(PCBA:PWR-153)

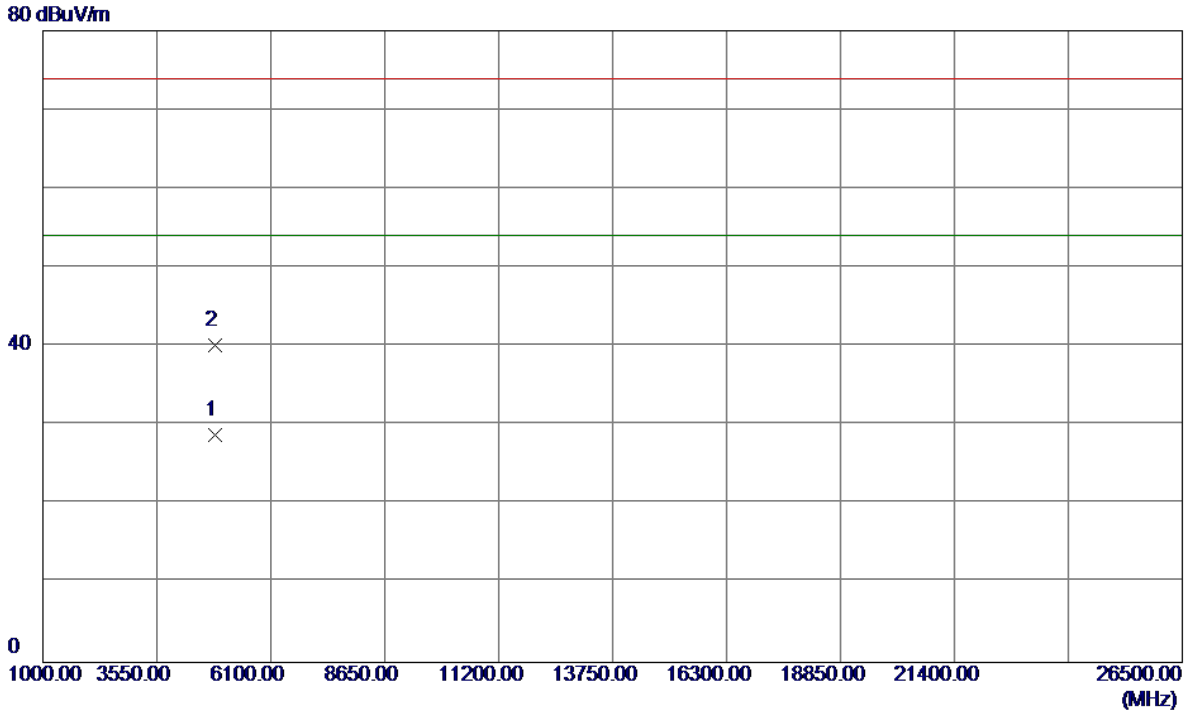
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	31.79	34.23	66.02	74.00	-7.98	Peak	
2	2390.0000	18.30	34.23	52.53	54.00	-1.47	AVG	
3	2427.6000	56.92	34.45	91.37	54.00	37.37	AVG	NO LIMIT
4	2431.0000	66.39	34.47	100.86	74.00	26.86	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz(PCBA:PWR-153)

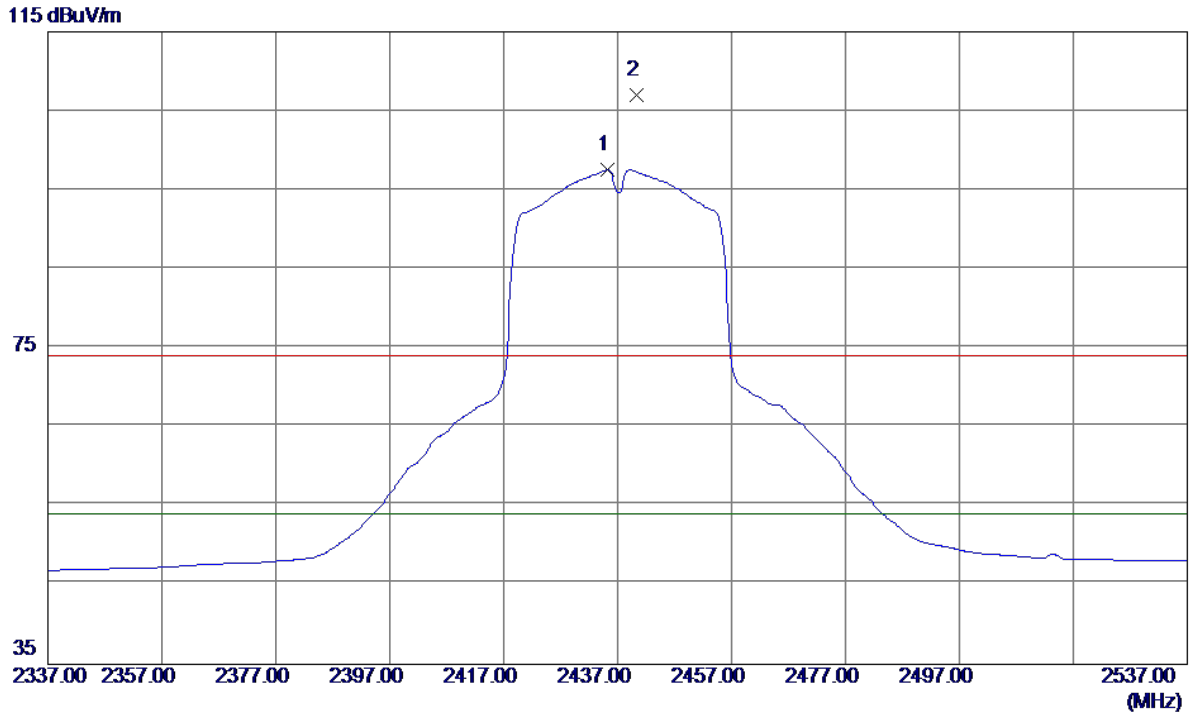
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.8700	25.86	3.01	28.87	54.00	-25.13	AVG	
2	4844.5800	37.20	3.01	40.21	74.00	-33.79	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz(PCBA:PWR-153)

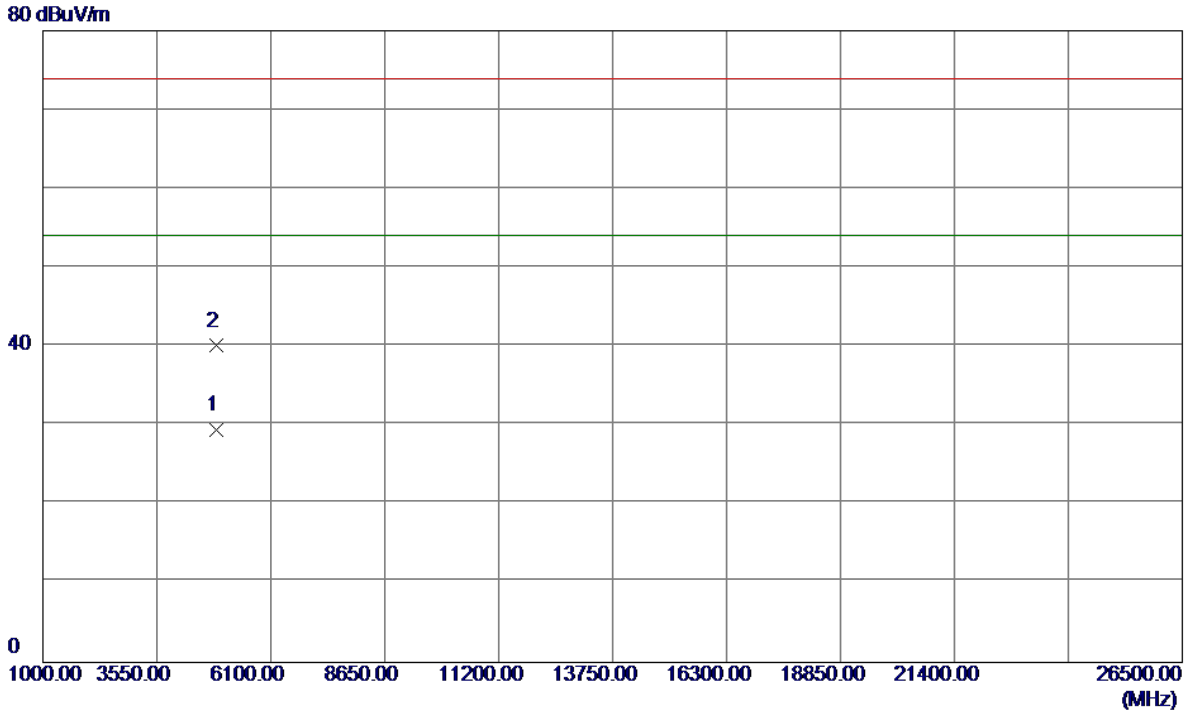
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.2000	63.03	34.49	97.52	54.00	43.52	AVG	NO LIMIT
2	2440.4000	72.53	34.52	107.05	74.00	33.05	Peak	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz(PCBA:PWR-153)

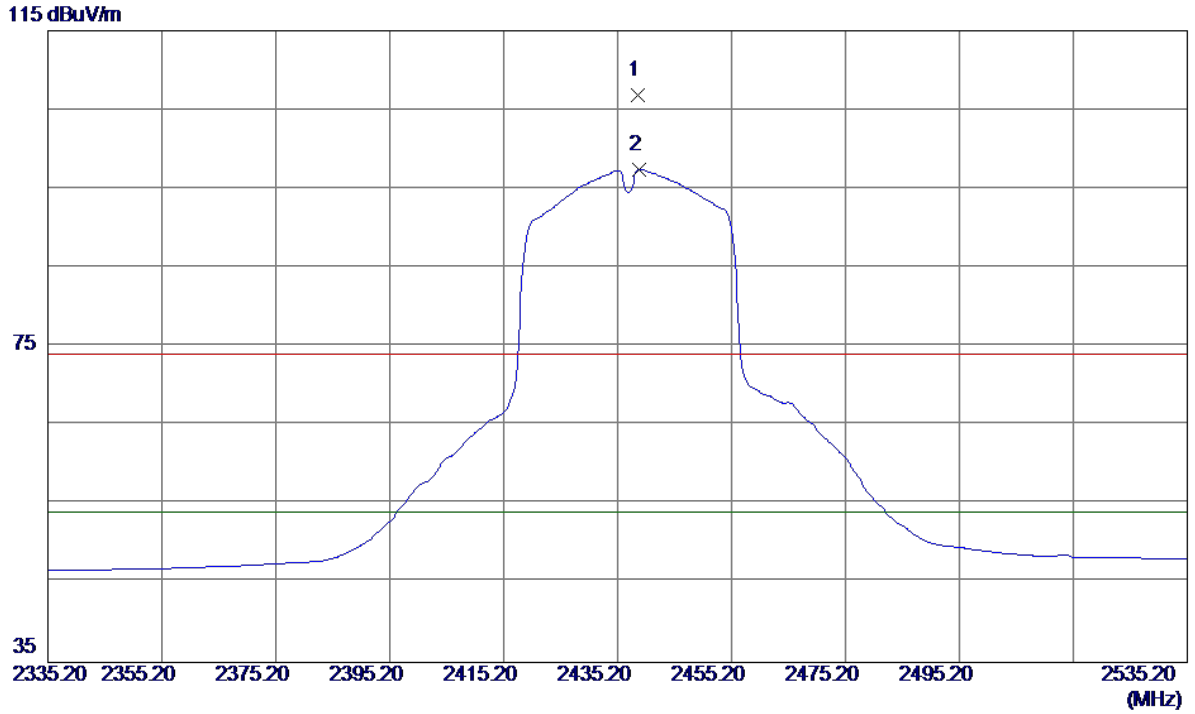
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9200	26.34	3.03	29.37	54.00	-24.63	AVG	
2	4874.1200	37.05	3.03	40.08	74.00	-33.92	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz(PCBA:PWR-153)

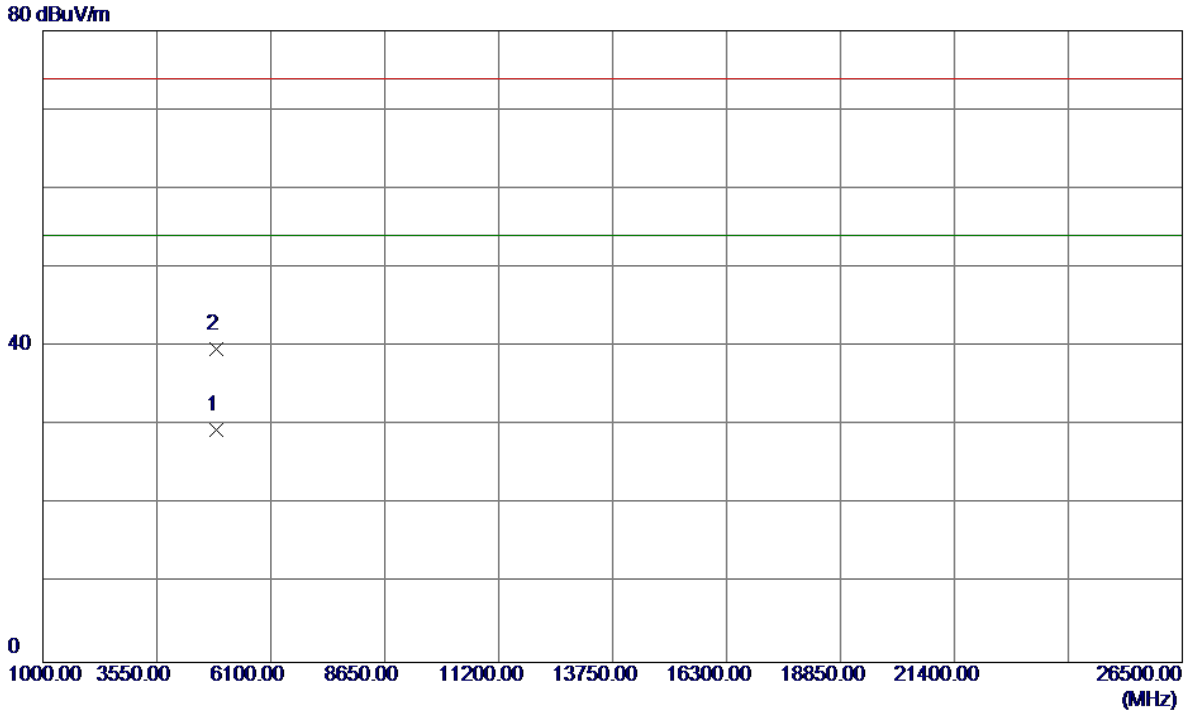
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2438.8000	72.35	34.52	106.87	74.00	32.87	Peak	NO LIMIT
2	2439.0000	62.91	34.52	97.43	54.00	43.43	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz(PCBA:PWR-153)

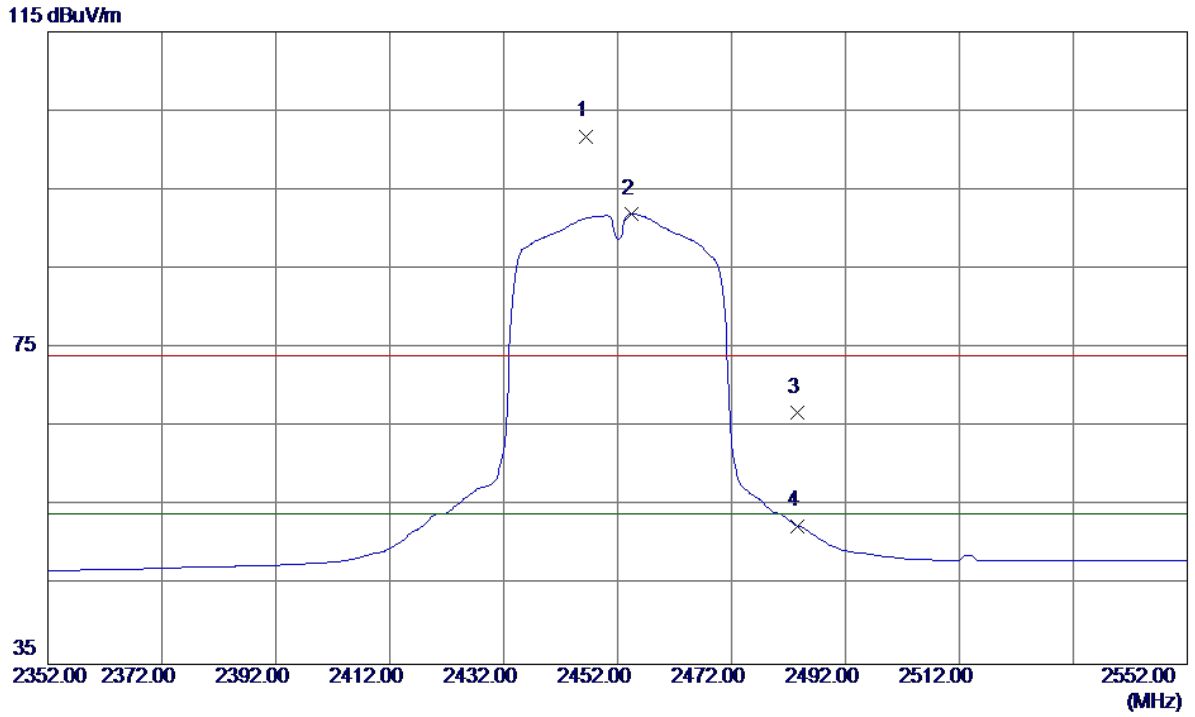
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0200	26.41	3.03	29.44	54.00	-24.56	AVG	
2	4874.0700	36.62	3.03	39.65	74.00	-34.35	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz(PCBA:PWR-153)

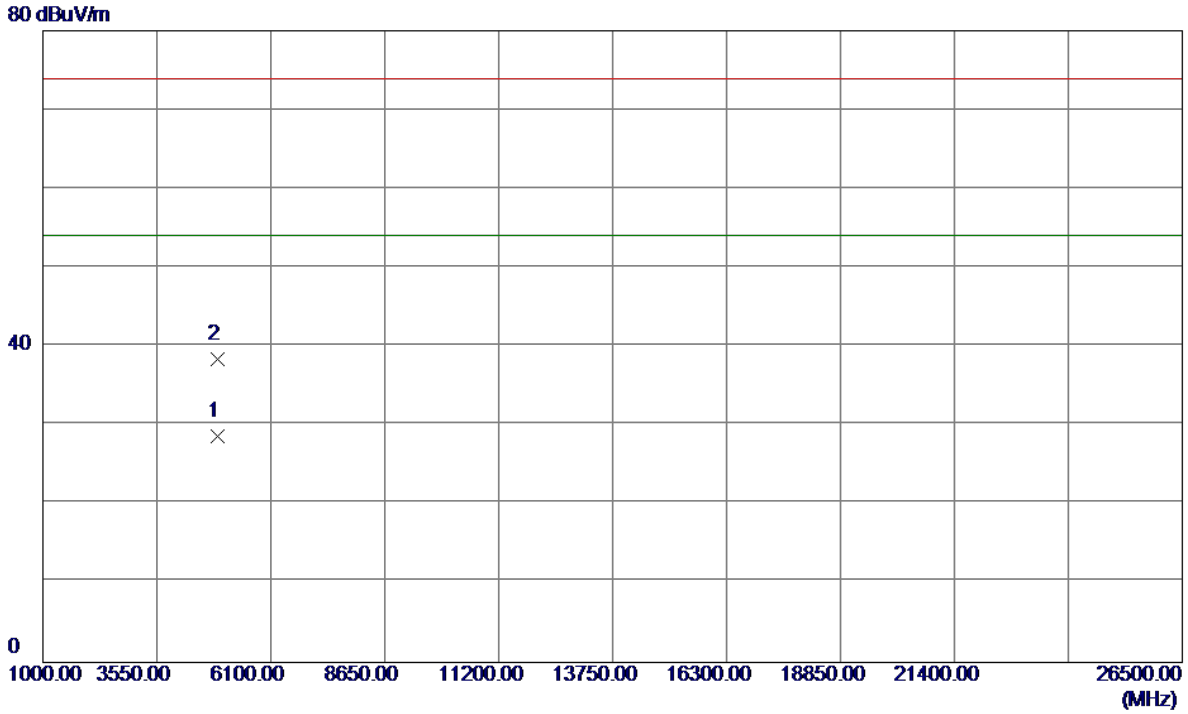
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2446.4000	67.24	34.56	101.80	74.00	27.80	Peak	NO LIMIT
2	2454.4000	57.34	34.61	91.95	54.00	37.95	AVG	NO LIMIT
3	2483.5000	32.08	34.77	66.85	74.00	-7.15	Peak	
4	2483.5000	17.75	34.77	52.52	54.00	-1.48	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz(PCBA:PWR-153)

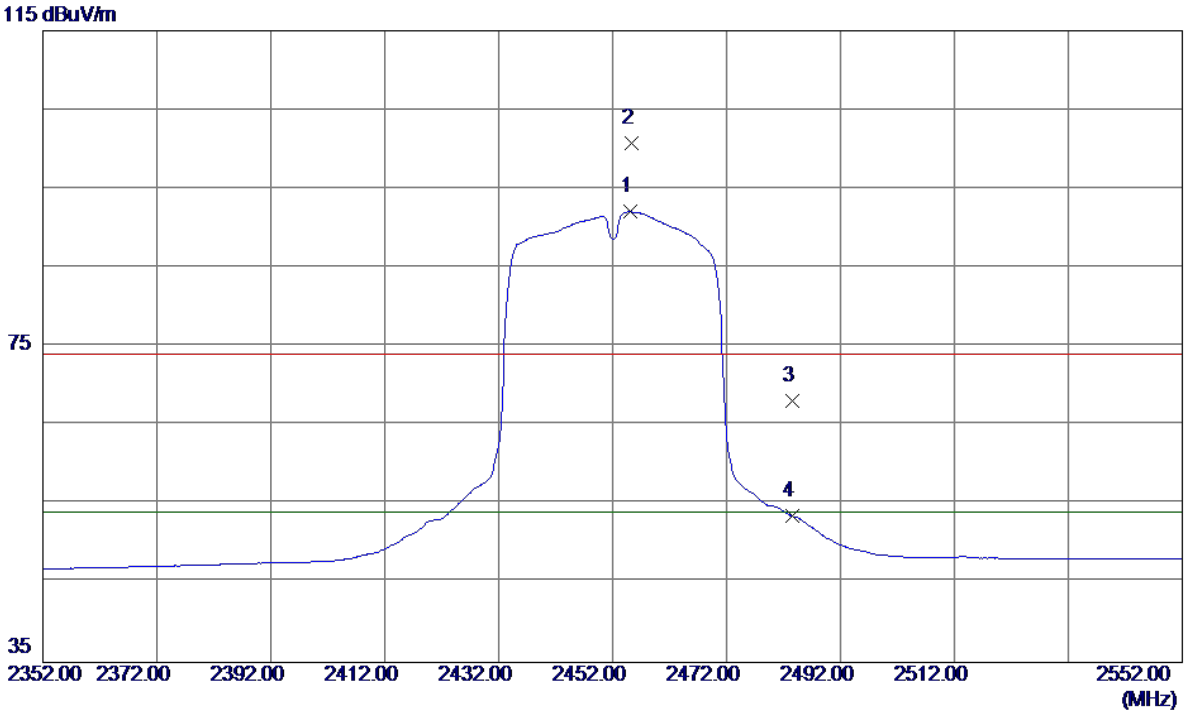
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4903.9500	25.54	3.04	28.58	54.00	-25.42	AVG	
2	4904.2000	35.40	3.04	38.44	74.00	-35.56	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz(PCBA:PWR-153)

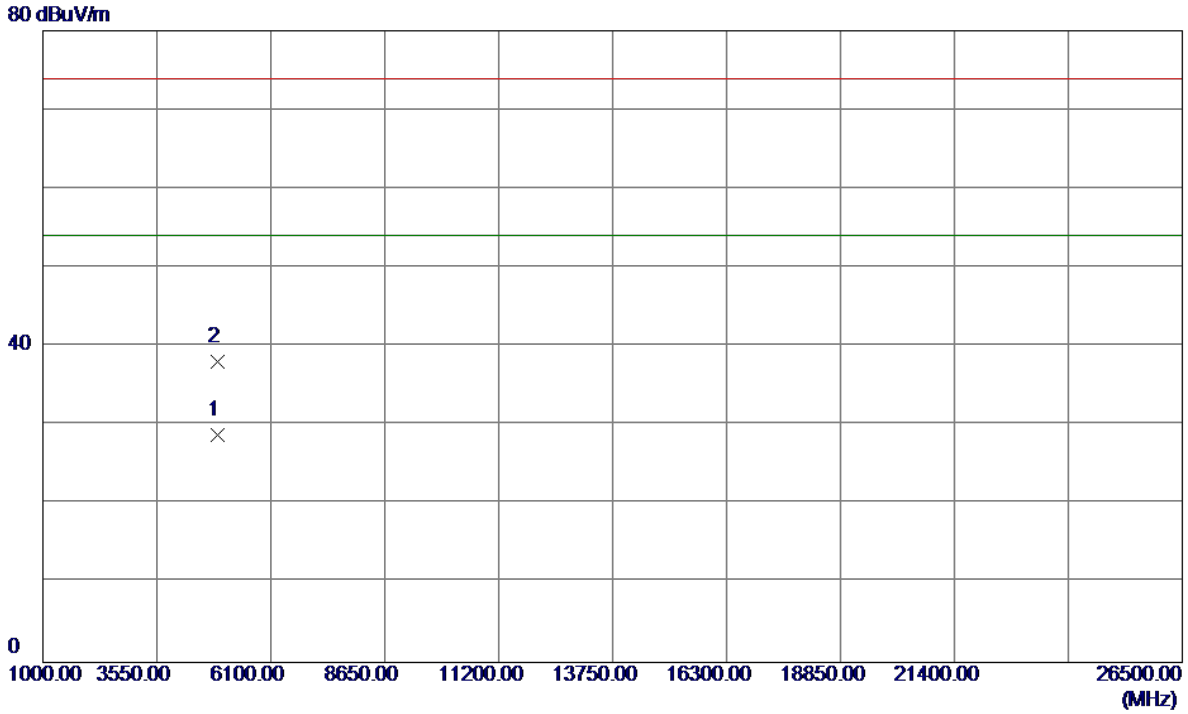
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455.2000	57.47	34.61	92.08	54.00	38.08	AVG	NO LIMIT
2	2455.4000	66.10	34.61	100.71	74.00	26.71	Peak	NO LIMIT
3	2483.5000	33.29	34.77	68.06	74.00	-5.94	Peak	
4	2483.5000	18.73	34.77	53.50	54.00	-0.50	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz(PCBA:PWR-153)

Horizontal



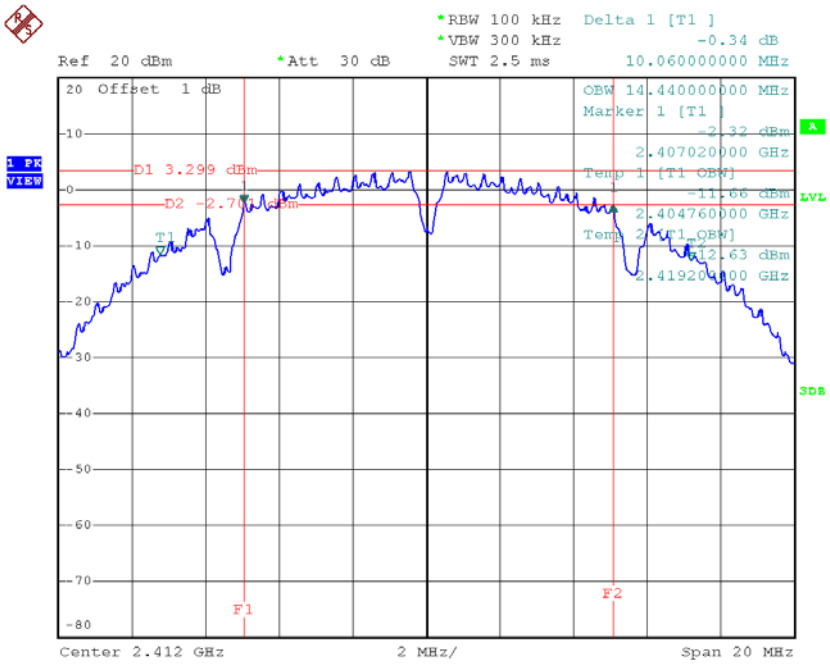
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4903.9600	25.70	3.04	28.74	54.00	-25.26	AVG	
2	4904.2300	34.99	3.04	38.03	74.00	-35.97	Peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11(PCBA:PWR-153)				

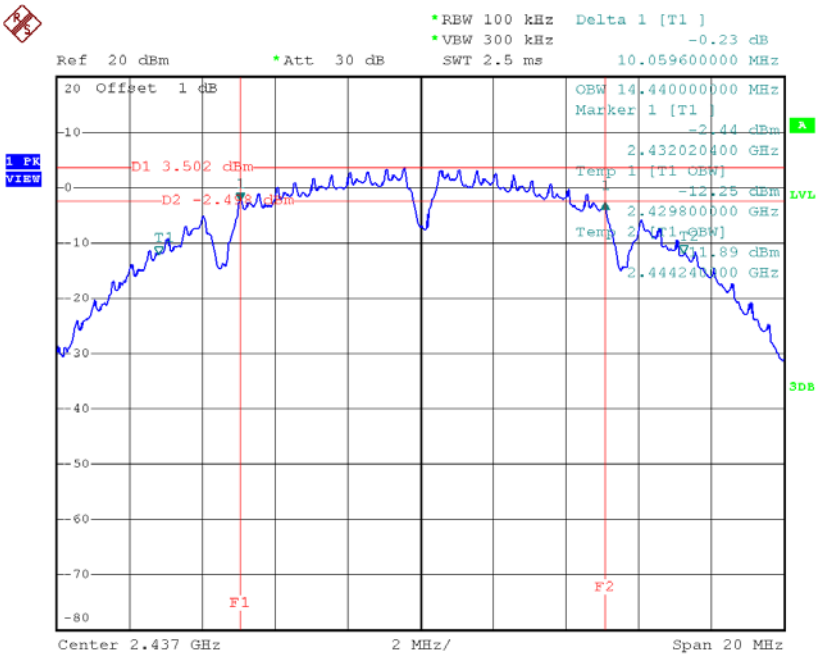
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.06	14.44	500	Complies
2437	10.06	14.44	500	Complies
2462	10.06	14.44	500	Complies

TX CH01



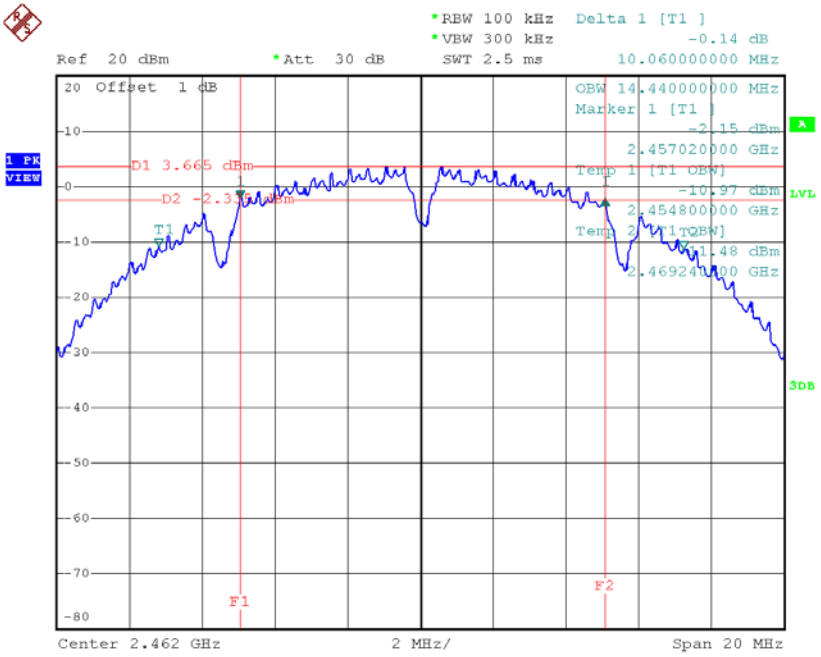
Date: 18.SEP.2015 10:53:23

TX CH06



Date: 18.SEP.2015 10:54:42

TX CH11

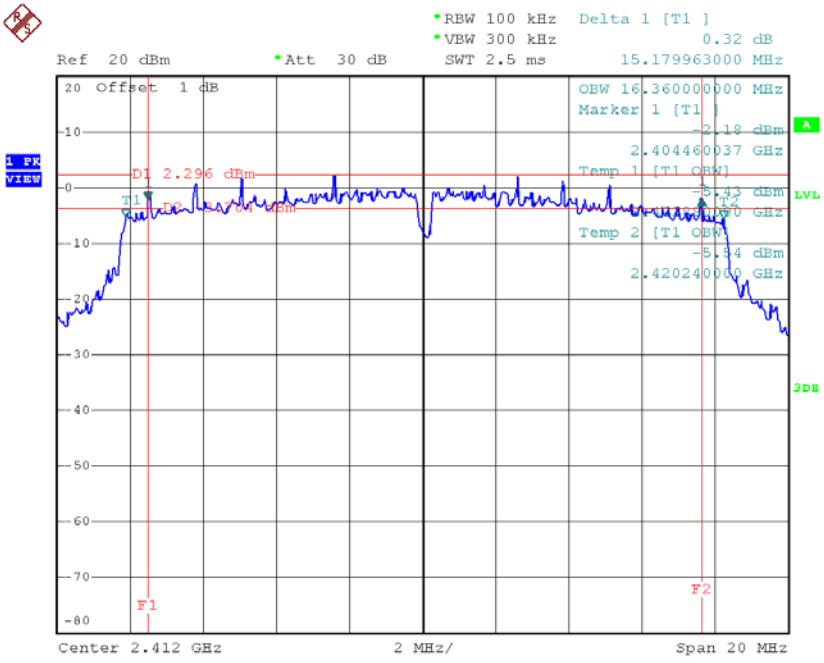


Date: 18.SEP.2015 10:55:58

Test Mode: TX G Mode_CH01/06/11(PCBA:PWR-153)

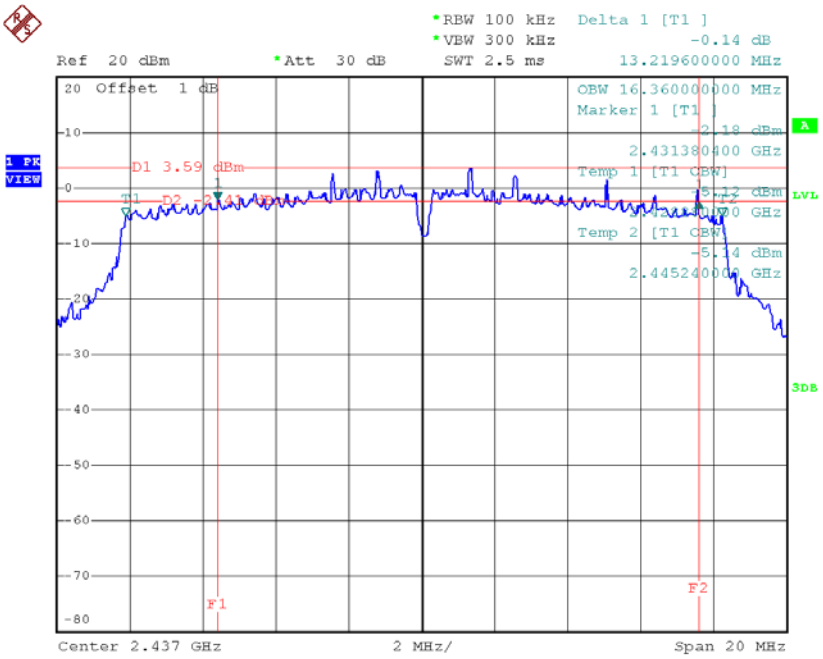
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.18	16.36	500	Complies
2437	13.22	16.36	500	Complies
2462	15.10	16.36	500	Complies

TX CH01



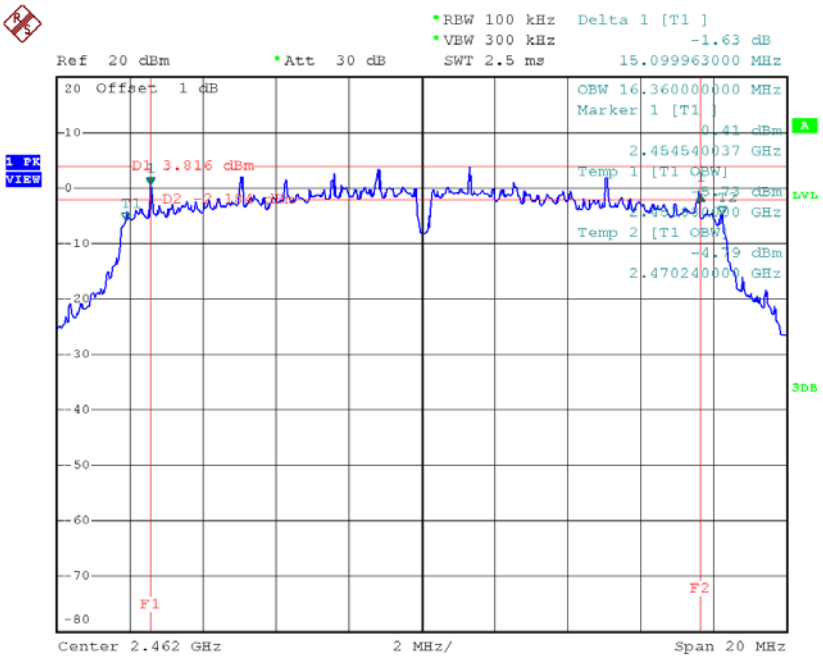
Date: 18.SEP.2015 10:59:10

TX CH06



Date: 18.SEP.2015 11:00:21

TX CH11

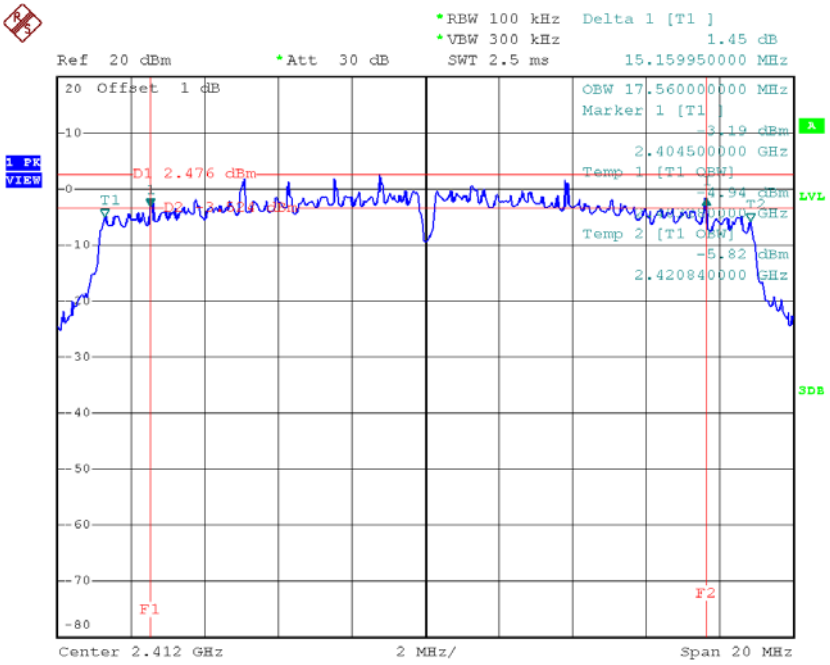


Date: 18.SEP.2015 11:01:21

Test Mode : TX N-20MHz Mode_CH01/06/11(PCBA:PWR-153)

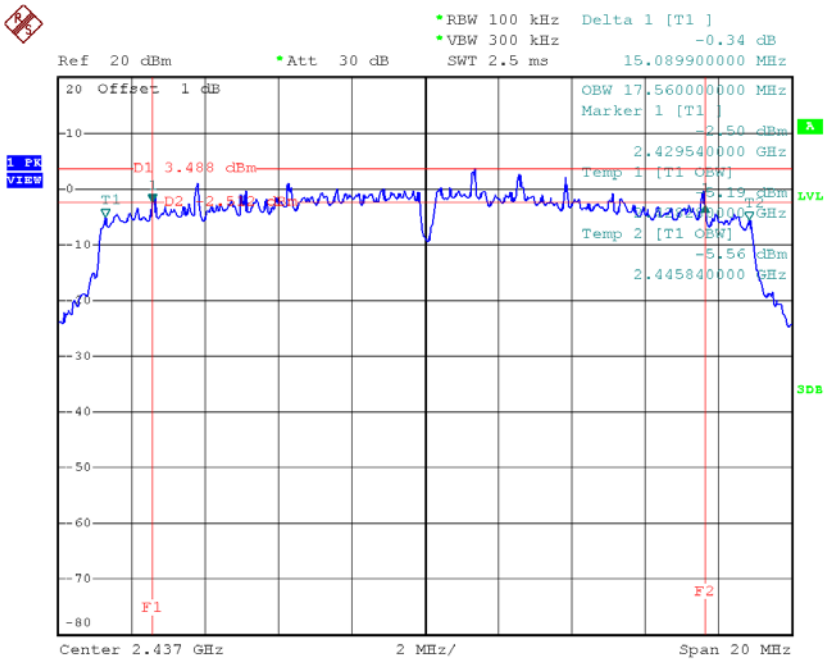
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.16	17.56	500	Complies
2437	15.09	17.56	500	Complies
2462	15.14	17.56	500	Complies

TX CH01



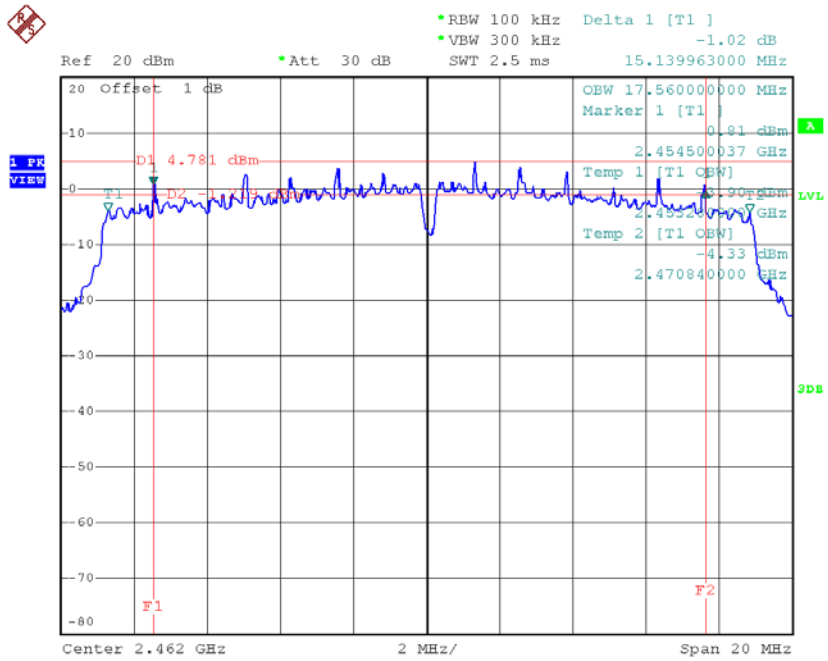
Date: 18.SEP.2015 11:02:39

TX CH06



Date: 18.SEP.2015 11:03:53

TX CH11

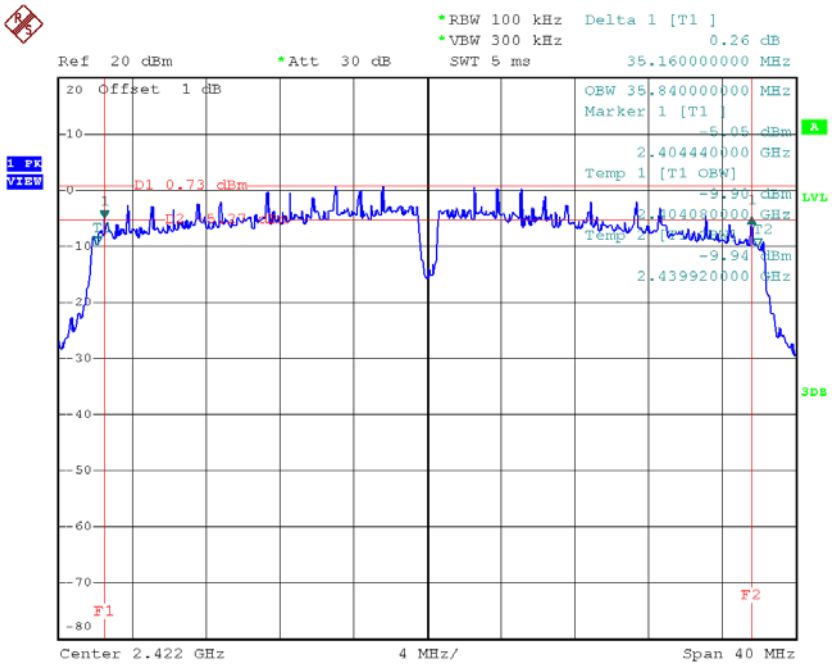


Date: 18.SEP.2015 11:04:53

Test Mode : TX N-40MHz Mode_CH03/06/09(PCBA:PWR-153)

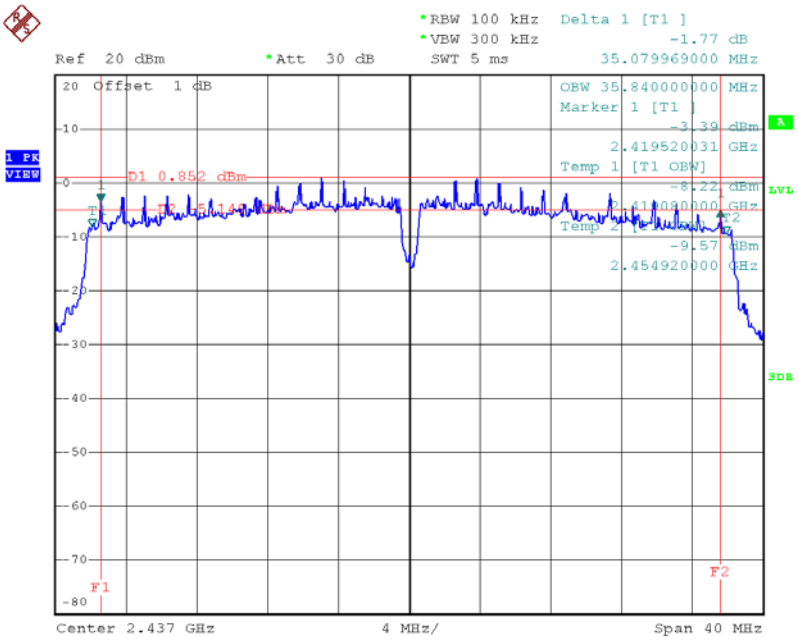
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.16	35.84	500	Complies
2437	35.08	35.84	500	Complies
2452	35.24	35.76	500	Complies

TX CH03



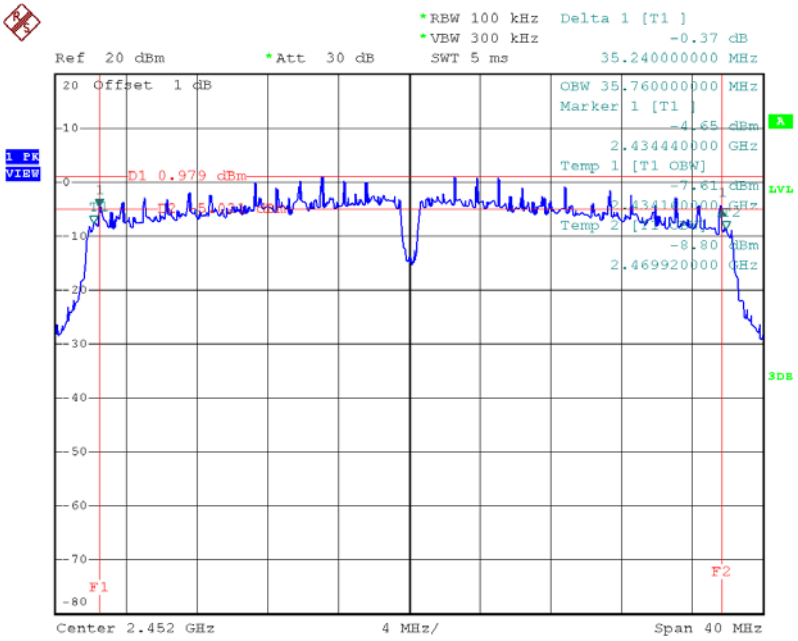
Date: 18.SEP.2015 11:06:29

TX CH06



Date: 18.SEP.2015 11:07:38

TX CH09



Date: 18.SEP.2015 11:08:34

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11(PCBA:PWR-153)					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.77	0.05	30.00	1.00	Complies
2437	16.71	0.05	30.00	1.00	Complies
2462	16.81	0.05	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11(PCBA:PWR-153)					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.29	0.13	30.00	1.00	Complies
2437	21.25	0.13	30.00	1.00	Complies
2462	21.16	0.13	30.00	1.00	Complies

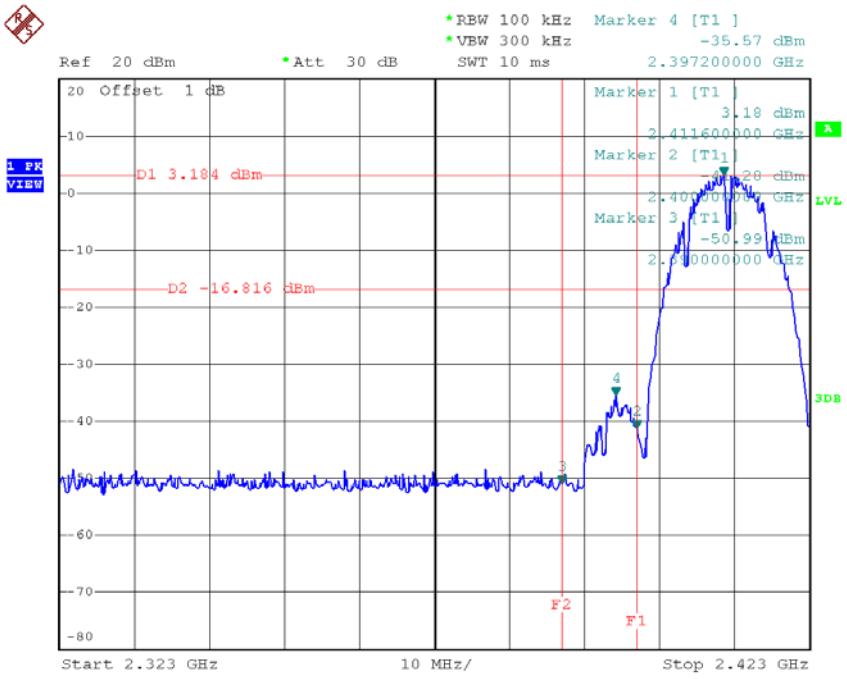
Test Mode :TX N20 Mode_CH01/06/11(PCBA:PWR-153)					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.09	0.13	30.00	1.00	Complies
2437	21.03	0.13	30.00	1.00	Complies
2462	21.05	0.13	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09(PCBA:PWR-153)					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.35	0.14	30.00	1.00	Complies
2437	21.33	0.14	30.00	1.00	Complies
2452	21.36	0.14	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

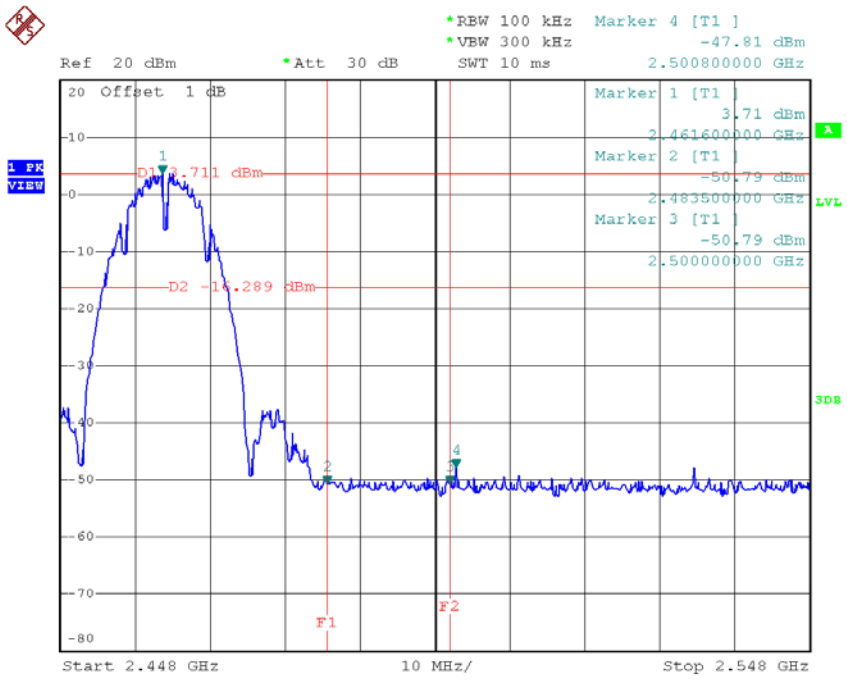
Test Mode :	**TX B Mode(PCBA:PWR-153)**

TX B mode CH01



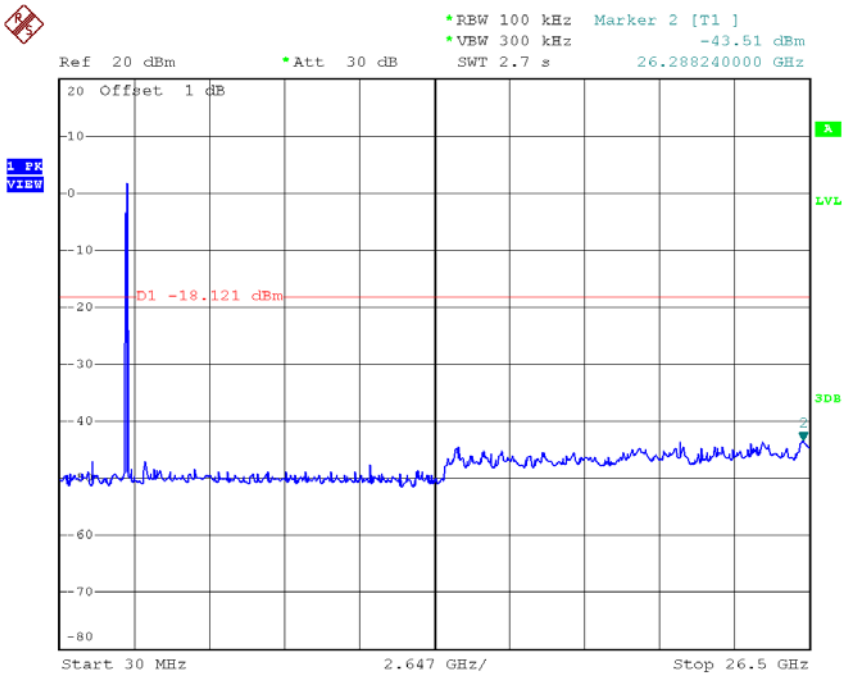
Date: 18.SEP.2015 10:53:45

TX B mode CH11



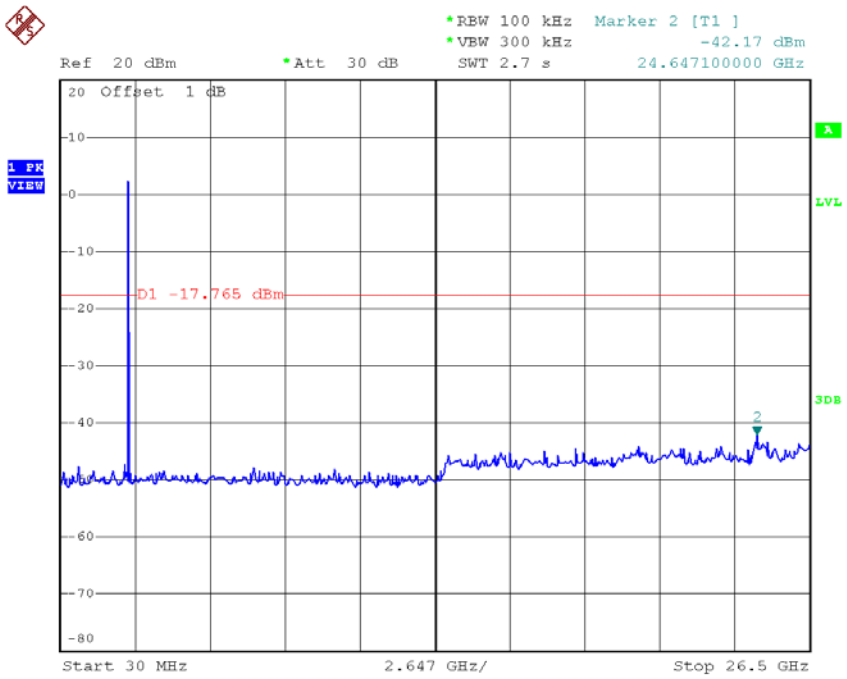
Date: 18.SEP.2015 10:56:19

TX B mode CH01 (10 Harmonic of the frequency)



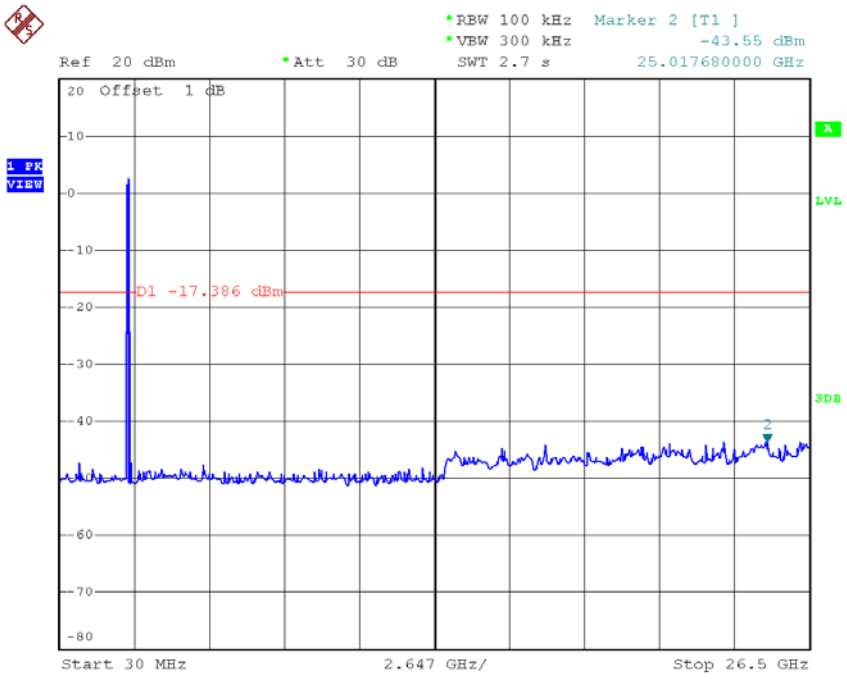
Date: 18.SEP.2015 10:53:37

TX B mode CH06 (10 Harmonic of the frequency)



Date: 18.SEP.2015 10:54:56

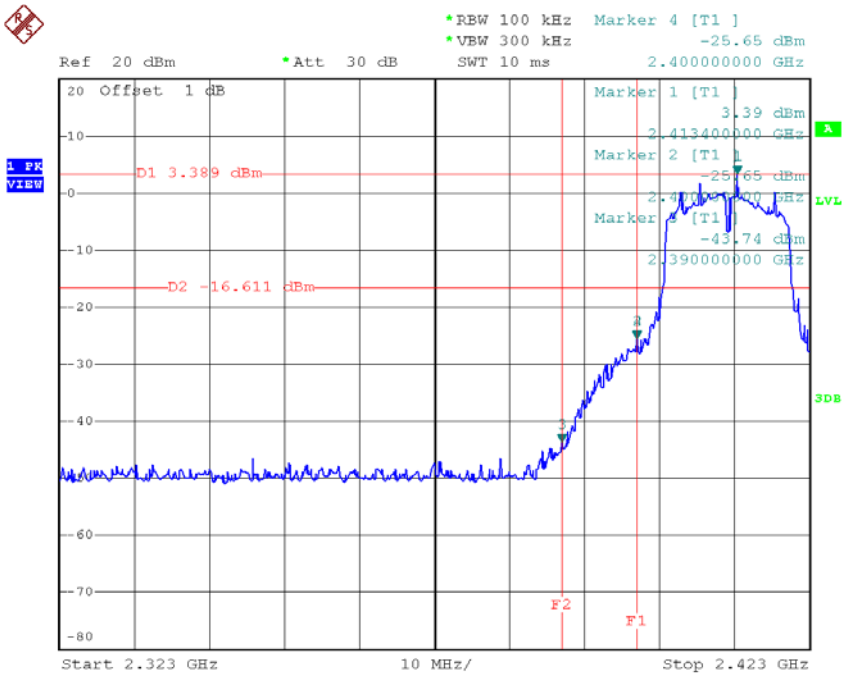
TX B mode CH11 (10 Harmonic of the frequency)



Date: 18.SEP.2015 10:56:11

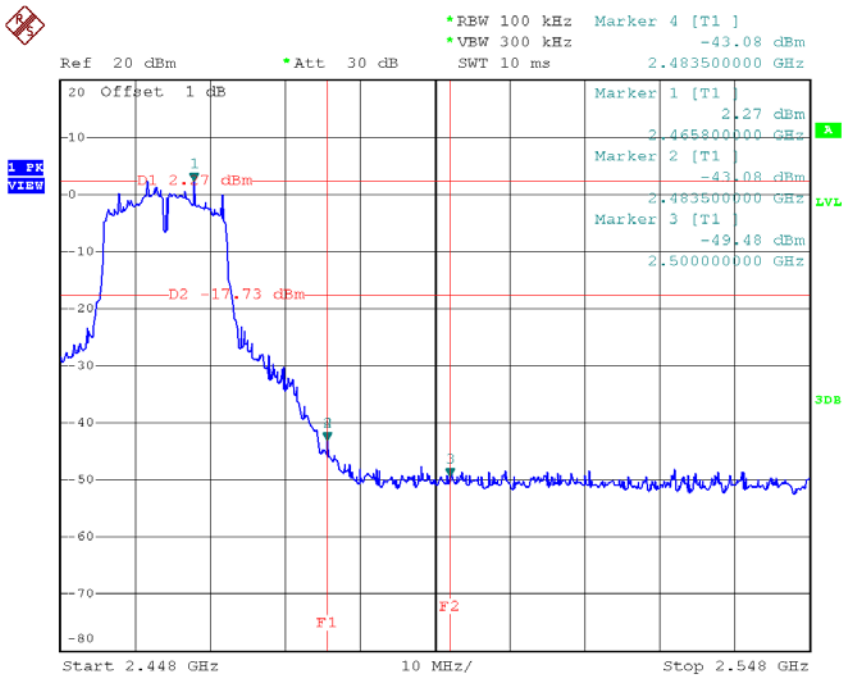
Test Mode :	TX G Mode(PCBA:PWR-153)

TX G mode CH01



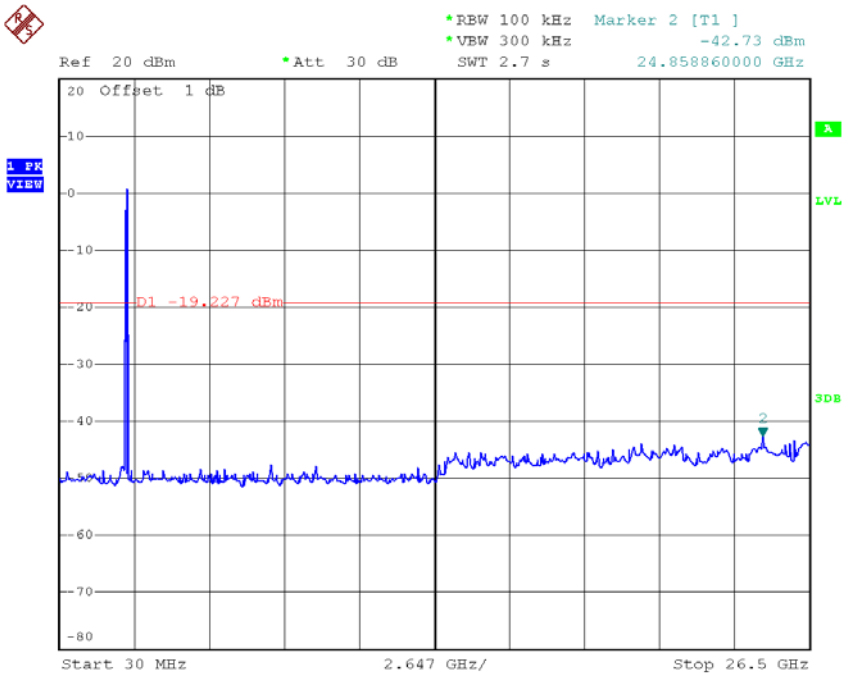
Date: 18.SEP.2015 10:59:32

TX G mode CH11



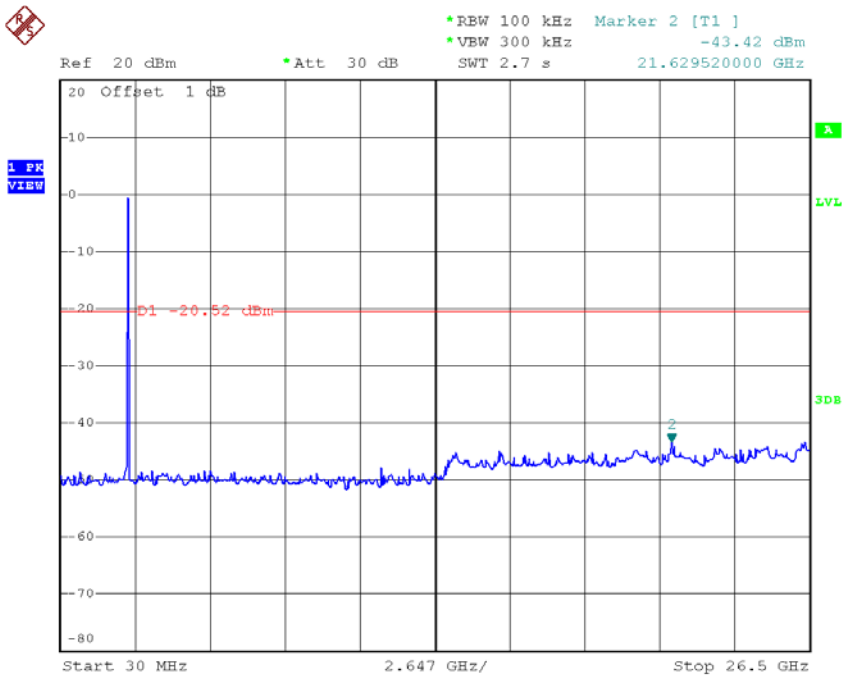
Date: 18.SEP.2015 11:01:42

TX G mode CH01 (10 Harmonic of the frequency)



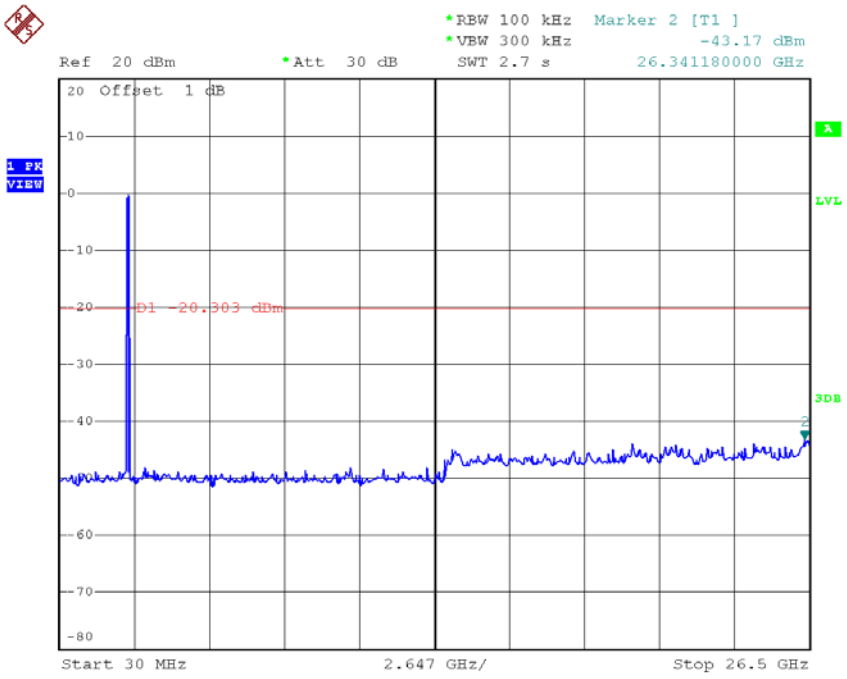
Date: 18.SEP.2015 10:59:25

TX G mode CH06 (10 Harmonic of the frequency)



Date: 18.SEP.2015 11:00:35

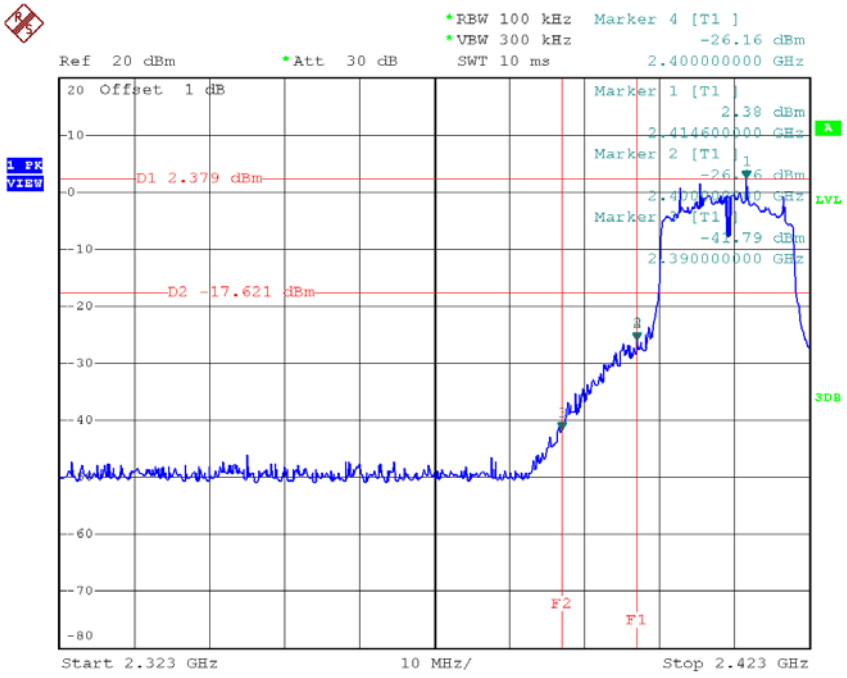
TX G mode CH11 (10 Harmonic of the frequency)



Date: 18.SEP.2015 11:01:34

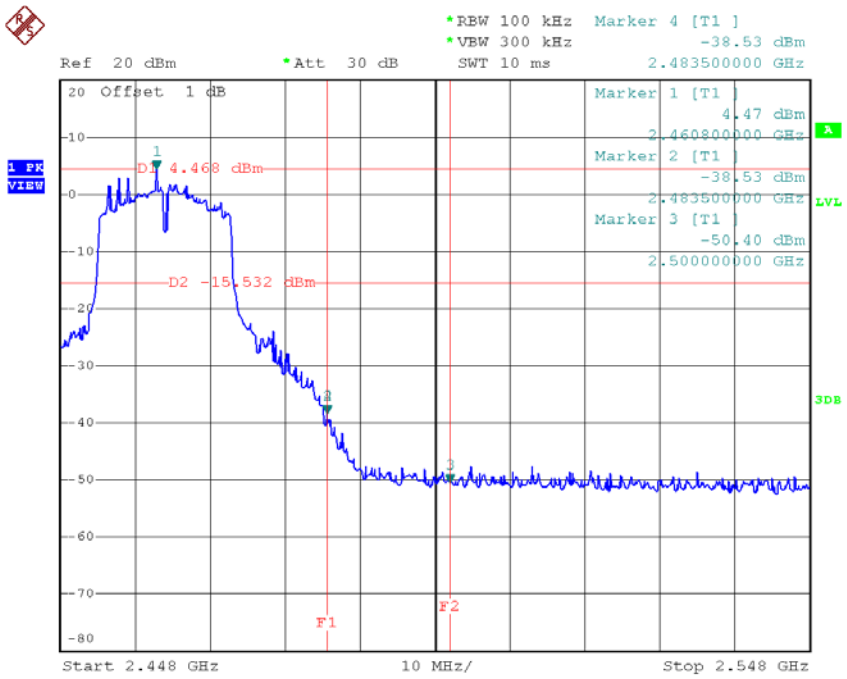
Test Mode :	TX N-20M Mode(PCBA:PWR-153)

TX HT20 mode CH01



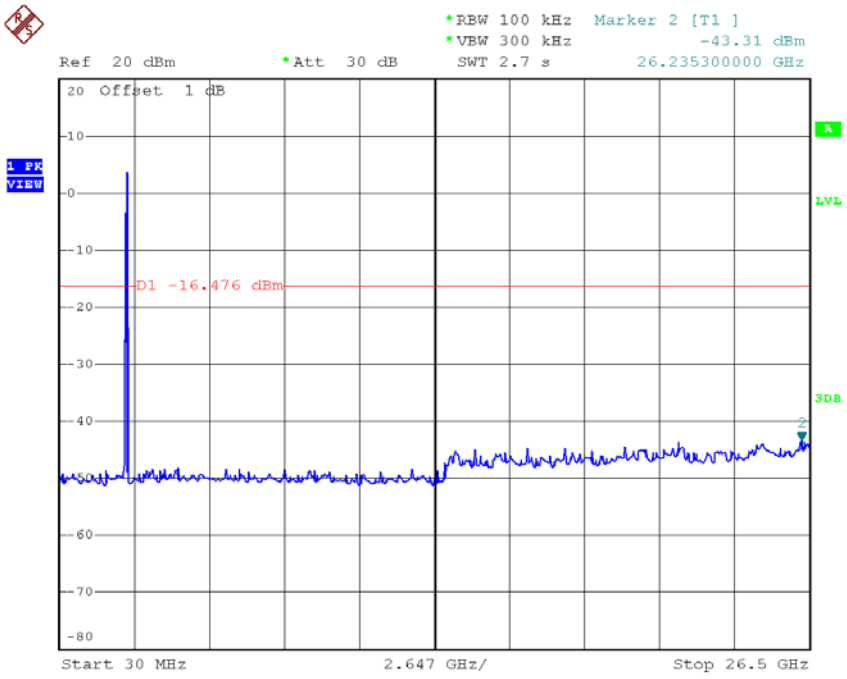
Date: 18.SEP.2015 11:03:00

TX HT20 mode CH11



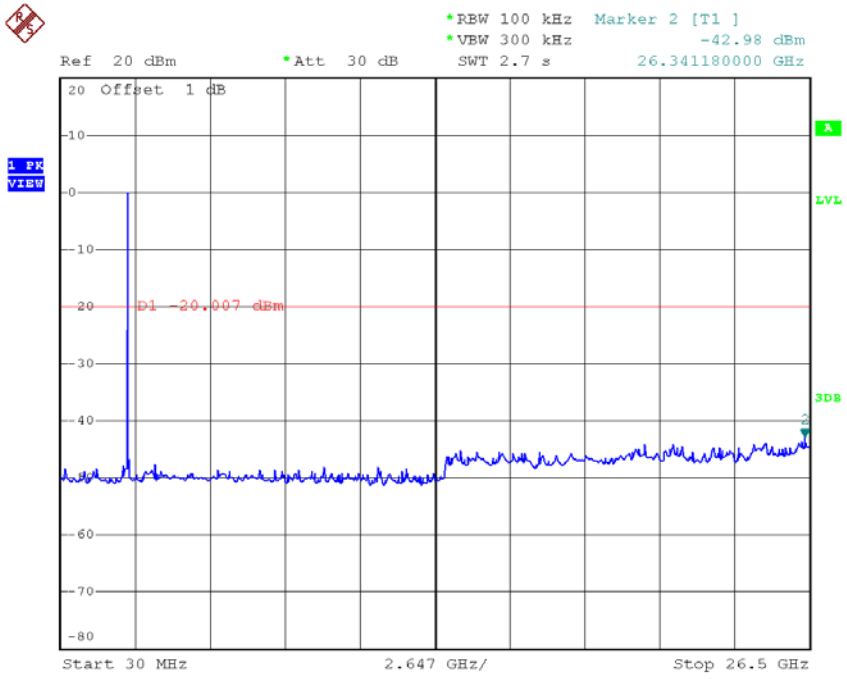
Date: 18.SEP.2015 11:05:15

TX HT20 mode CH01 (10 Harmonic of the frequency)



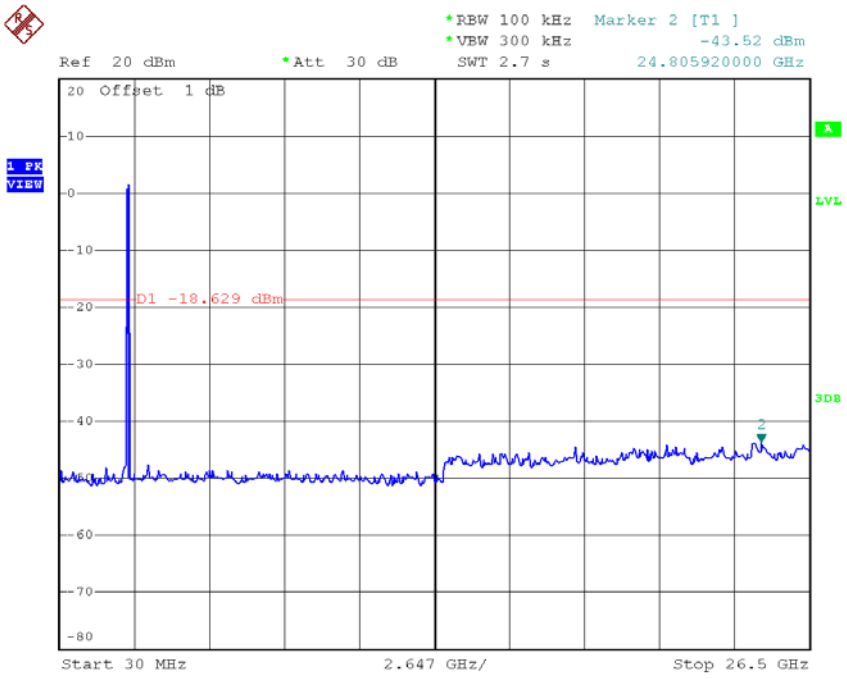
Date: 18.SEP.2015 11:02:53

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 18.SEP.2015 11:04:06

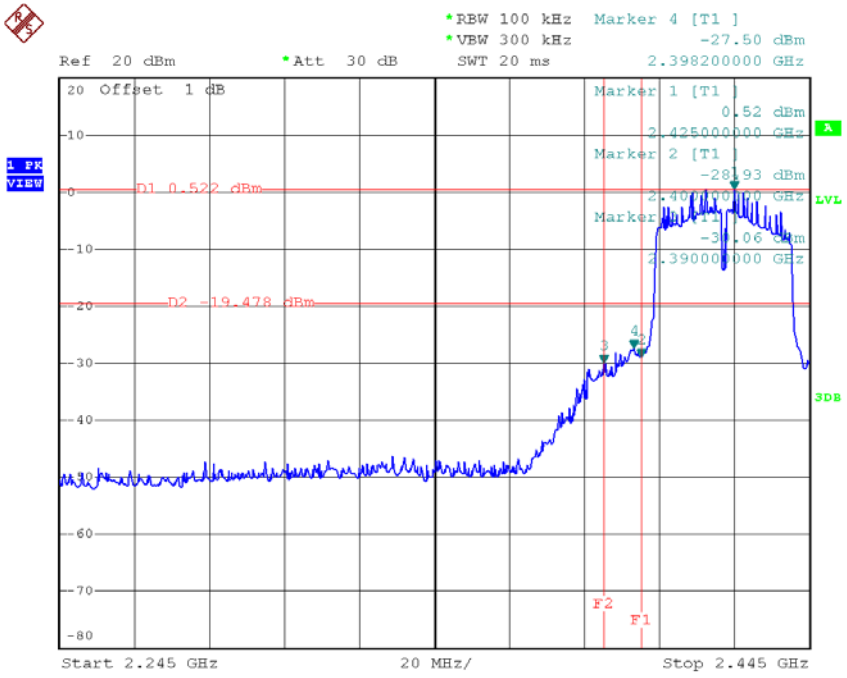
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 18.SEP.2015 11:05:07

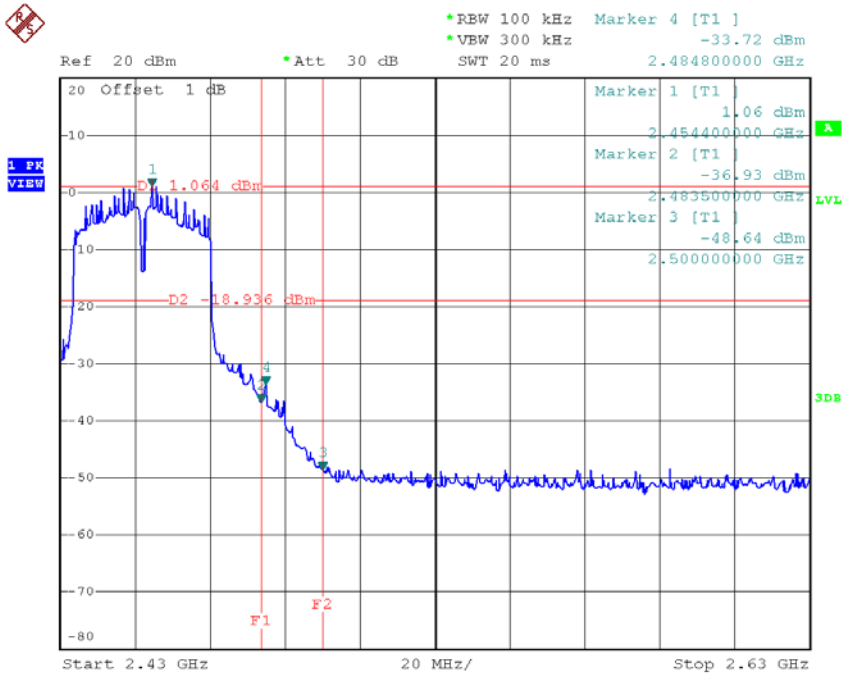
Test Mode :	TX N-40M Mode(PCBA:PWR-153)

TX HT40 mode CH03



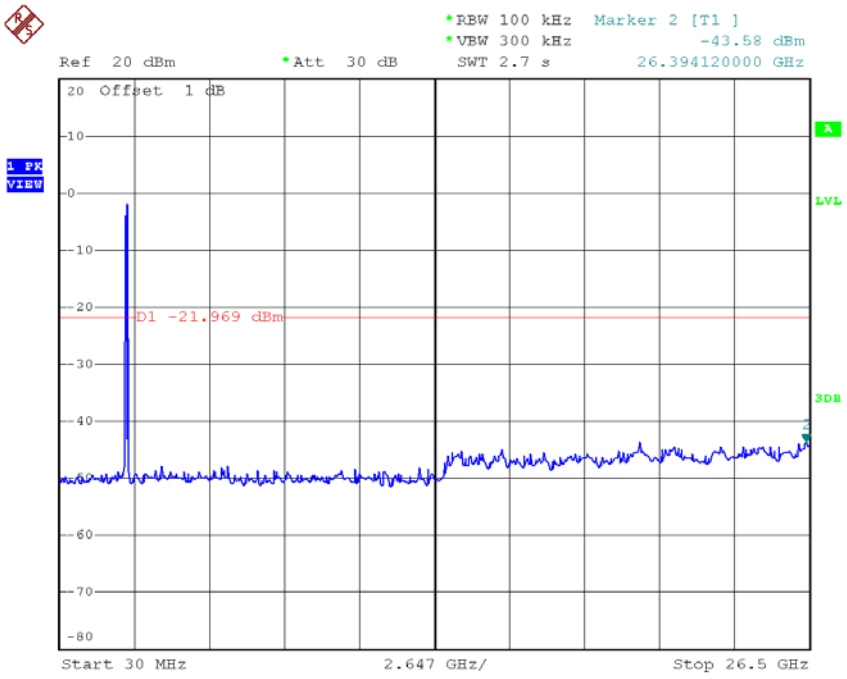
Date: 18.SEP.2015 11:06:50

TX HT40 mode CH09



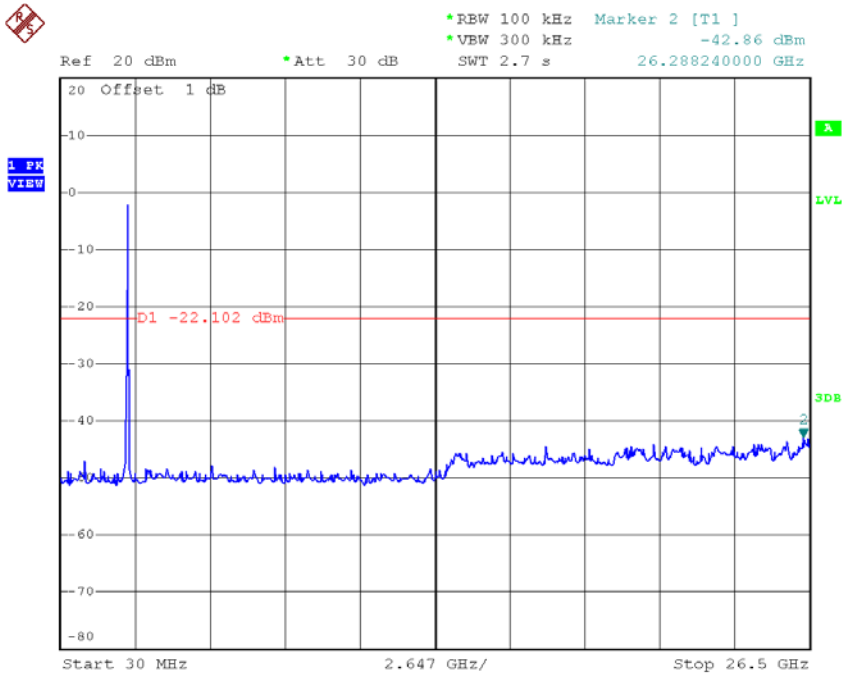
Date: 18.SEP.2015 11:08:55

TX HT40 mode CH03 (10 Harmonic of the frequency)



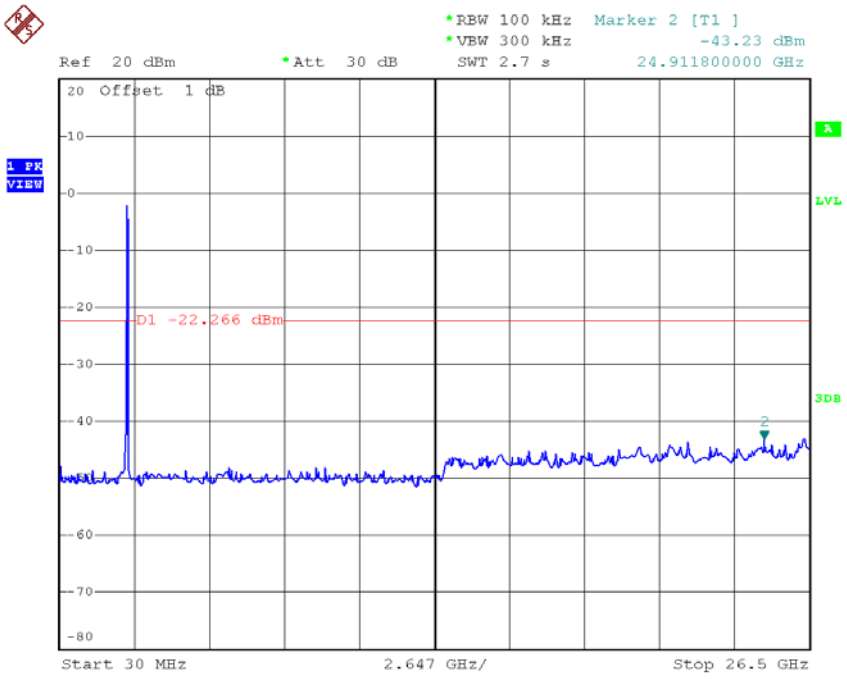
Date: 18.SEP.2015 11:06:43

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 18.SEP.2015 11:07:52

TX HT40 mode CH09 (10 Harmonic of the frequency)



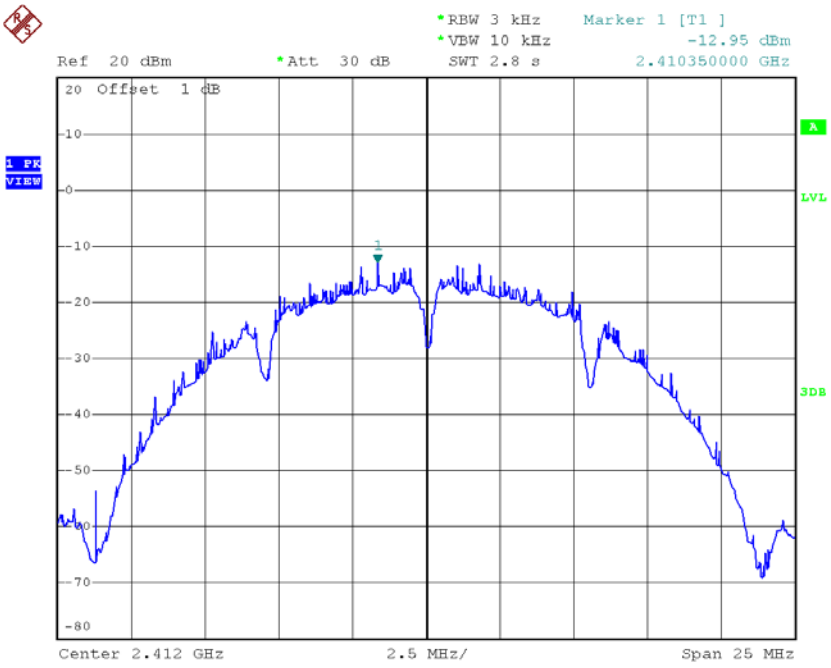
Date: 18.SEP.2015 11:08:47

ATTACHMENT H - POWER SPECTRAL DENSITY

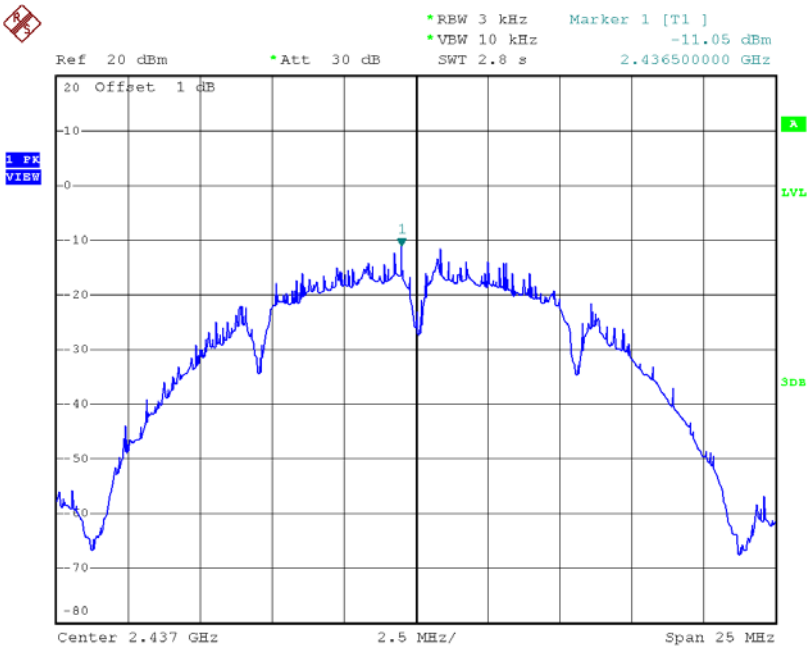
Test Mode :TX B Mode_CH01/06/11(PCBA:PWR-153)				

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.95	0.05	8.00	Complies
2437	-11.05	0.08	8.00	Complies
2462	-11.63	0.07	8.00	Complies

TX CH01

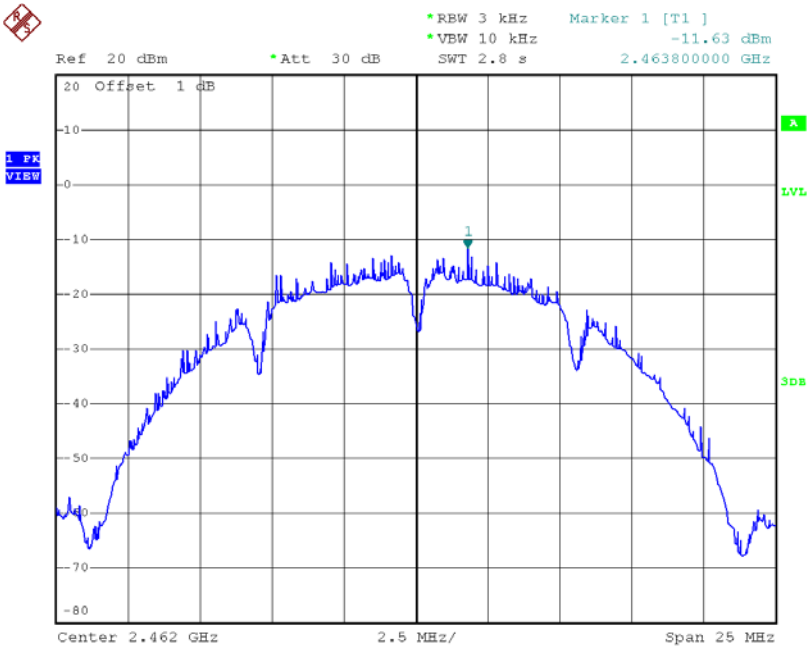


TX CH06



Date: 18.SEP.2015 11:12:34

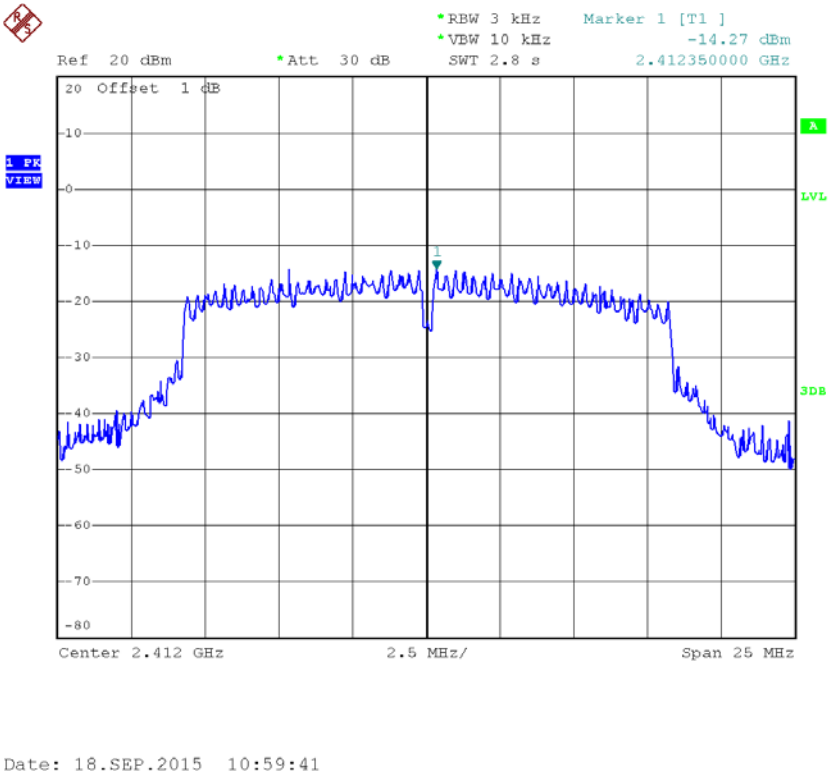
TX CH11



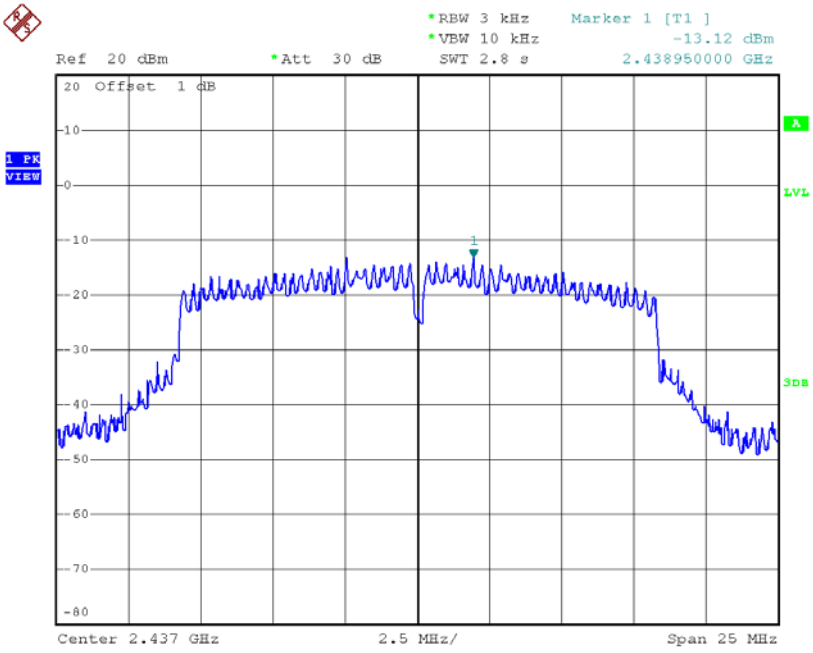
Date: 18.SEP.2015 10:56:29

Test Mode :TX G Mode_CH01/06/11(PCBA:PWR-153)				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.27	0.04	8.00	Complies
2437	-13.12	0.05	8.00	Complies
2462	-13.00	0.05	8.00	Complies

TX CH01

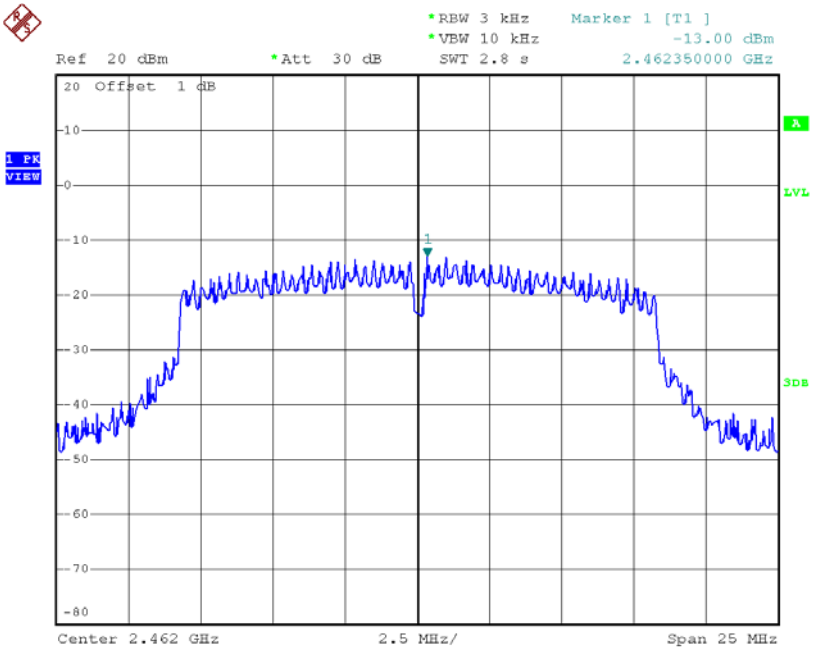


TX CH06



Date: 18.SEP.2015 11:00:44

TX CH11

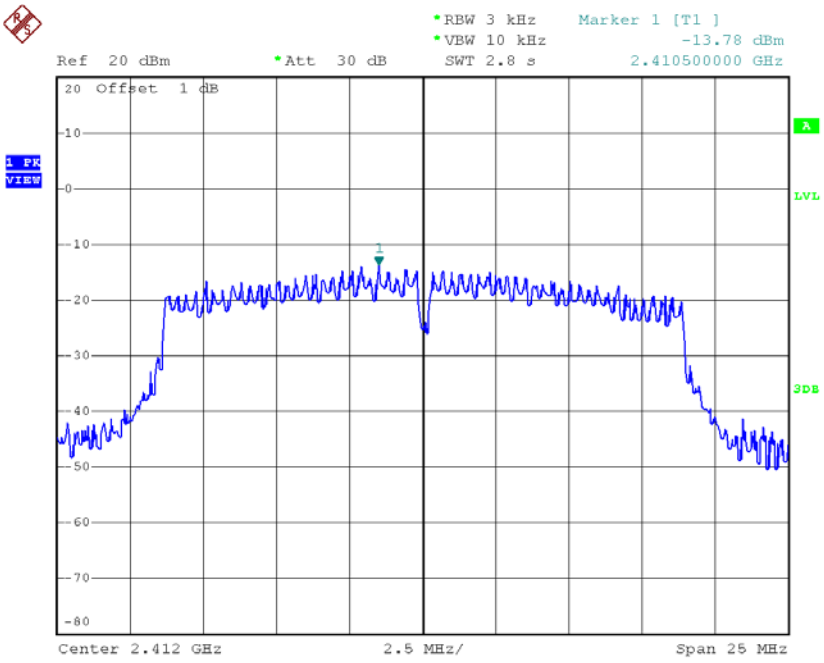


Date: 18.SEP.2015 11:01:51

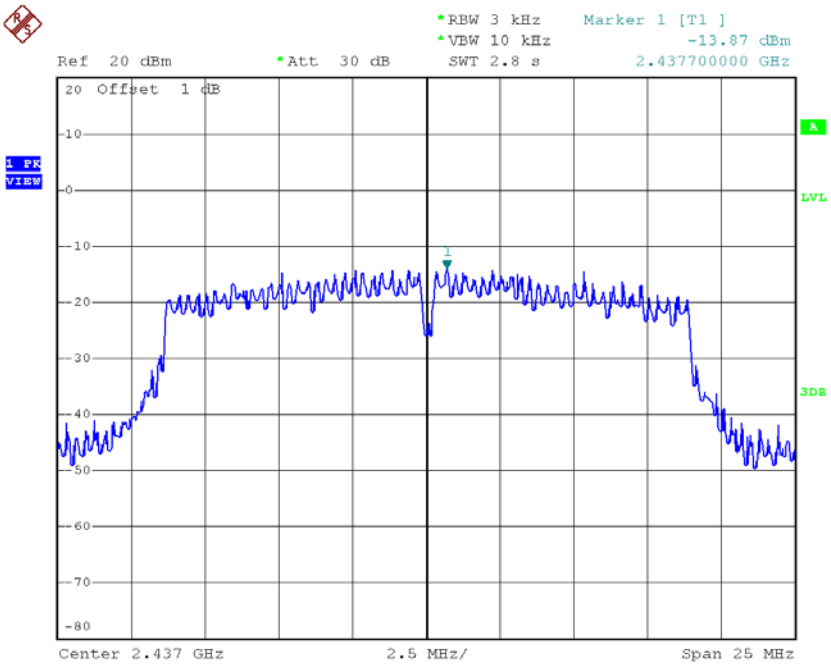
Test Mode : TX N-20M Mode_CH01/06/11(PCBA:PWR-153)				

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.78	0.04	8.00	Complies
2437	-13.87	0.04	8.00	Complies
2462	-11.28	0.07	8.00	Complies

TX CH01

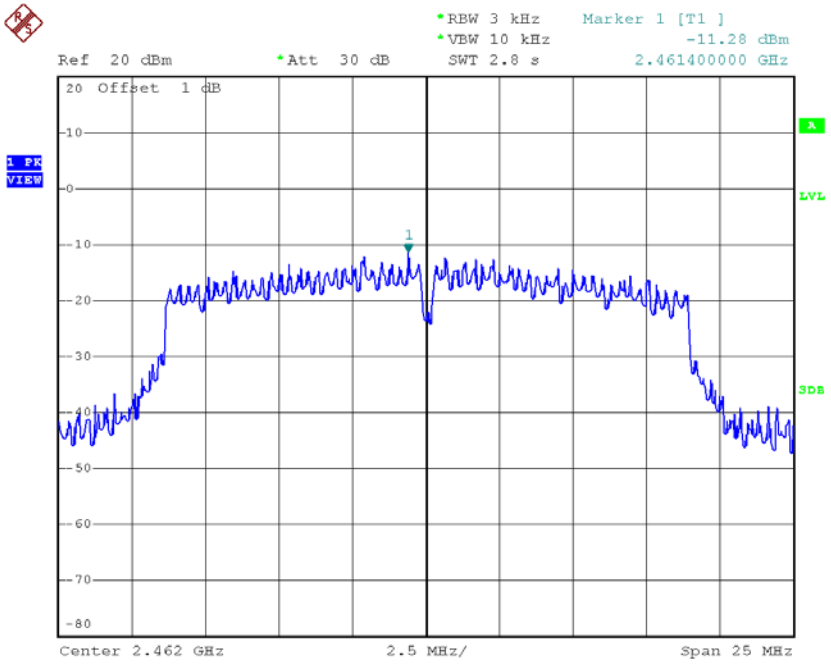


TX CH06



Date: 18.SEP.2015 11:04:15

TX CH11

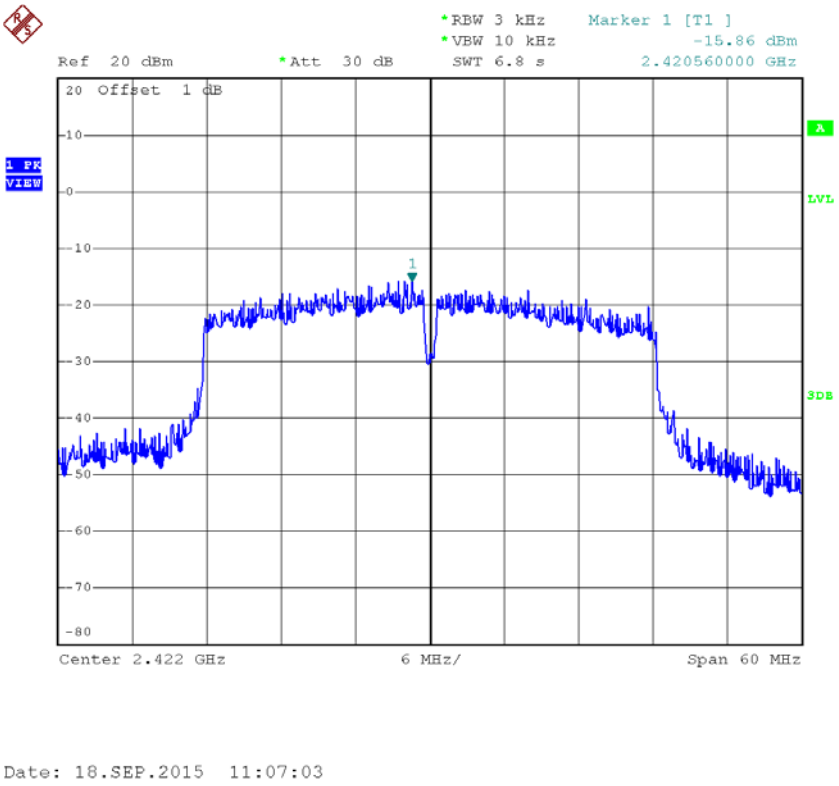


Date: 18.SEP.2015 11:05:24

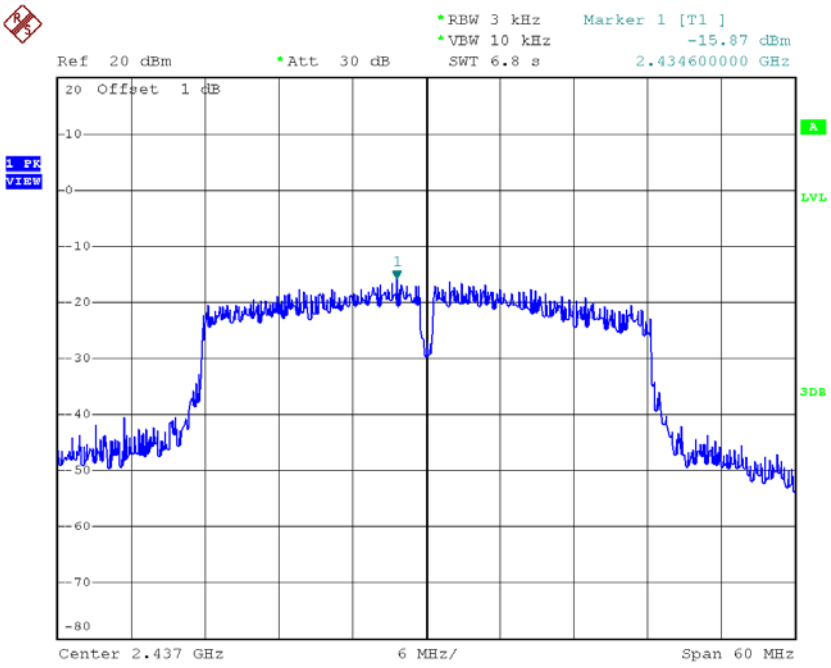
Test Mode : TX N-40M Mode_CH03/06/09(PCBA:PWR-153)				

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.86	0.03	8.00	Complies
2437	-15.87	0.03	8.00	Complies
2452	-14.31	0.04	8.00	Complies

TX CH03

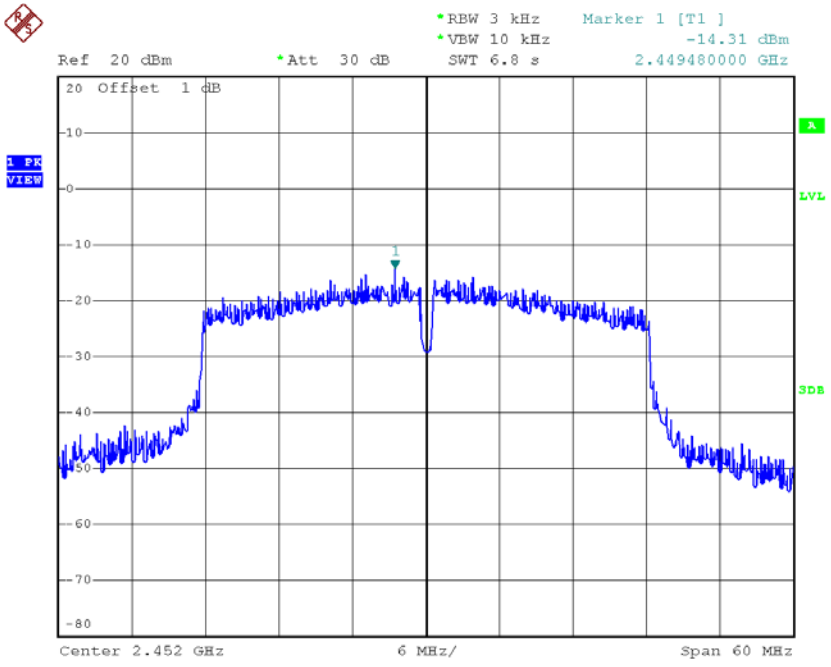


TX CH06



Date: 18.SEP.2015 11:08:04

TX CH09



Date: 18.SEP.2015 11:09:07