FCC Radio Test Report

FCC ID: 2AE69-KFR11AC

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

Project No.	:	1506C149
Equipment	:	1200M 11AC dual band Gigabit Wireless Router
Model Name	:	KFR11AC-128R-16F
Applicant	:	Kudoso Tech,LLC
Address	:	194 East Bowman Drive, Kailspell, MT59901,USA

Date of Receipt	:	Jun. 18, 2015
Date of Test	:	Jun. 18, 2015 ~ Aug. 31, 2015
Issued Date	:	Sep. 01, 2015
Tested by	:	BTL Inc.

Testing Engineer : Shawn Xiao
(Shawn Xiao)

Technical Manager : David Mao
(David Mao)

Authorized Signatory : Steven Lu
(Steven Lu)

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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.

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1506C149	Original Issue.	Sep. 01, 2015

1. CERTIFICATION

Equipment	:	1200M 11AC dual band Gigabit Wireless Router
Brand Name	:	KUDOSO
Model Name	:	KFR11AC-128R-16F
Applicant	:	Kudoso Tech,LLC
Manufacturer	:	Liling Fullriver Electronics & Technology Ltd.
Address	:	FullRiver Industrial Area Economic Development zone Liling City Hunan Province China
Factory	:	Liling Fullriver Electronics & Technology Ltd.
Address	:	FullRiver Industrial Area Economic Development zone Liling City Hunan Province China
Date of Test	:	Jun. 18, 2015 ~ Aug. 31, 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-1-1506C149) 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.	U,(dB)	Note
DG-CB03 (3m)	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	

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)	Note
DG-CB03 (3m)	CISPR	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	1200M 11AC dual band Gigabit Wireless Router	
Brand Name	KUDOSO	
Model Name	KFR11AC-128R-16F	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 20.59dBm 802.11g: 20.73dBm 802.11n(20MHz): 24.14dBm 802.11n(40MHz): 24.16dBm
Power Source	DC voltage supplied from AC/DC adapter. Brand/Model: AMIGO/AMS9-1201000FU2	
Power Rating	I/P: 100~240V-50-60Hz 0.5A O/P: 12V/1.0A	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
AANT2	N/A	N/A	Dipole	IPEX	5.0	2.4G
AANT3	N/A	N/A	Dipole	IPEX	5.0	2.4G

Note:
(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}**, that is Directional gain=5.
(2) AANT2 for 1TX is the worst case.

4.

Operating Mode / TX Mode	1TX	2TX
802.11b	V (AANT2)	-
802.11g	V (AANT2)	-
802.11n(20MHz)	-	V (AANT2 + AANT3)
802.11n(40MHz)	-	V (AANT2 + AANT3)

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 (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.

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

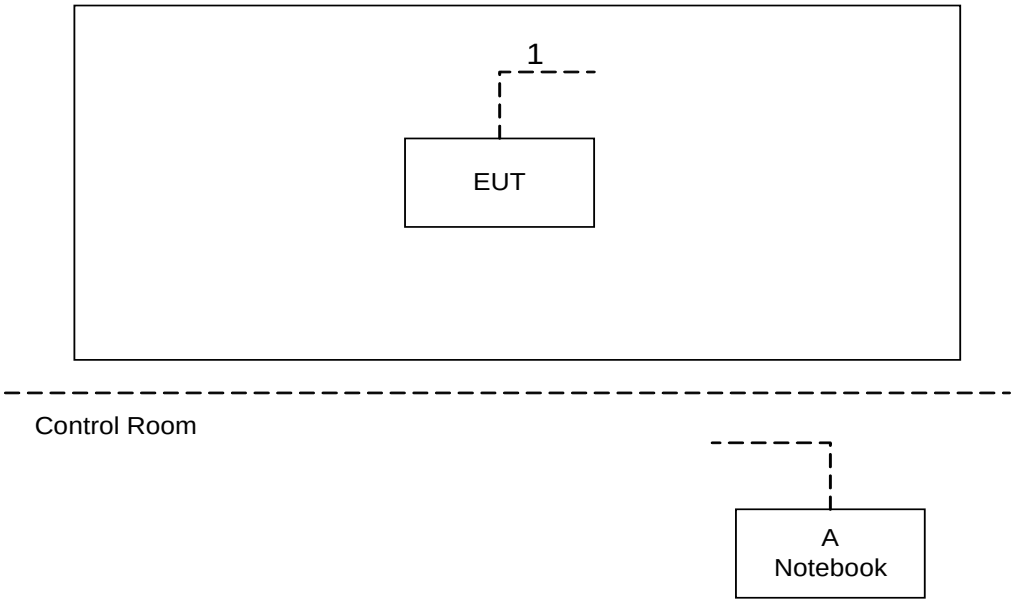
(4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	MP-TOOL		
Frequency (MHz)	2412	2437	2462
802.11b	42	42	42
802.11g	42	42	40
802.11n (20MHz)	44	44	39
Frequency	2422	2437	2452
802.11n (40MHz)	46	46	38

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
A	Notebook	Lenovo	H2510	DOC	SS07999198	

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

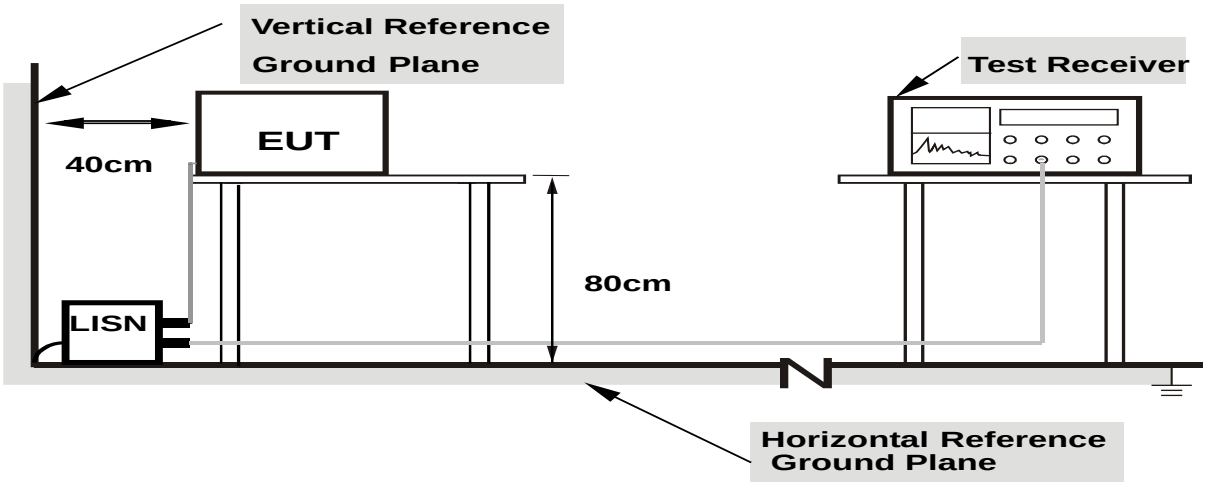
4.1.2 TEST PROCEDURE

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: 27°C Relative Humidity: 57% 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

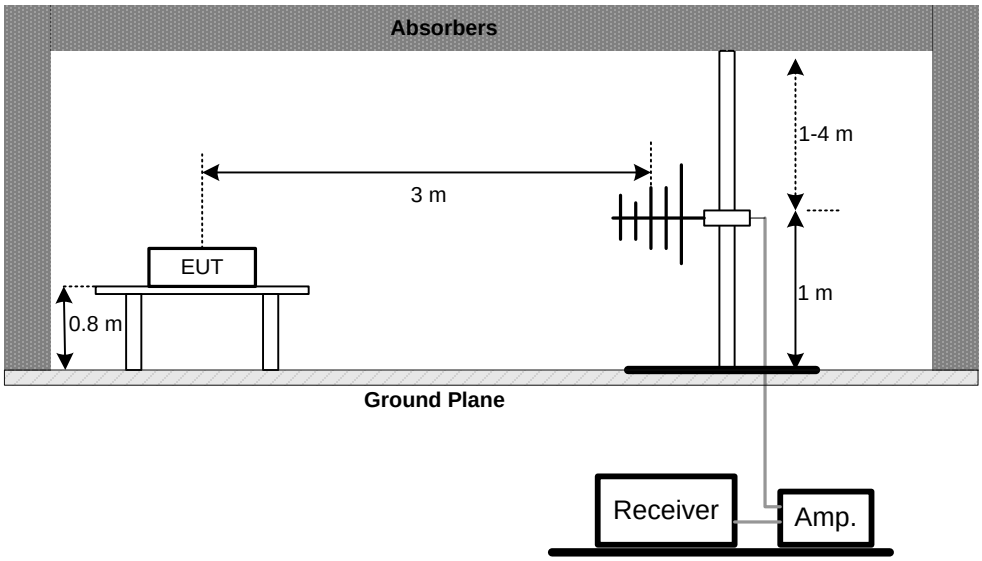
a. The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance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

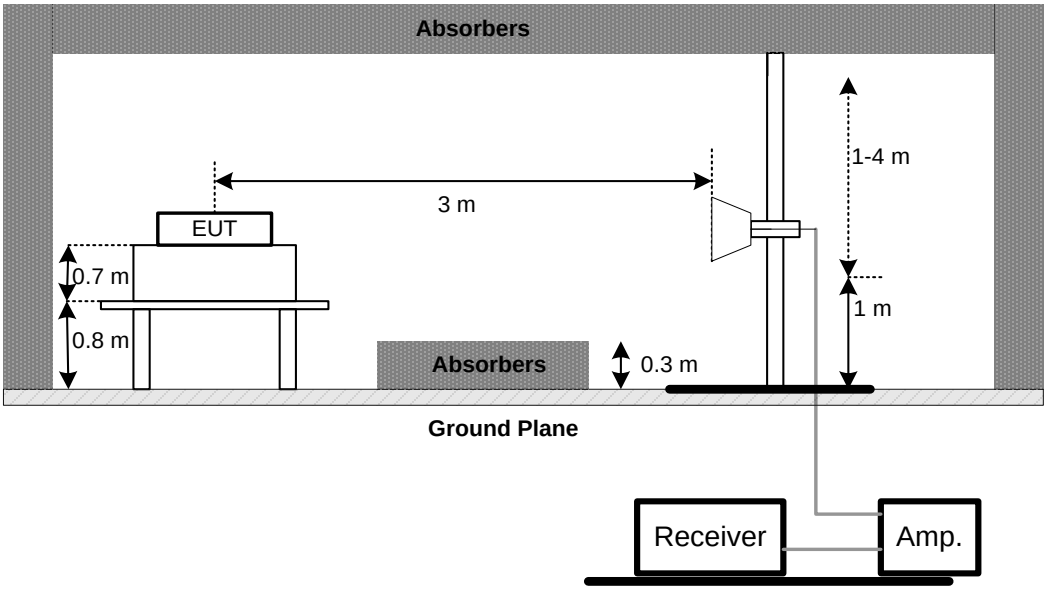
No deviation

4.2.4 TEST SETUP

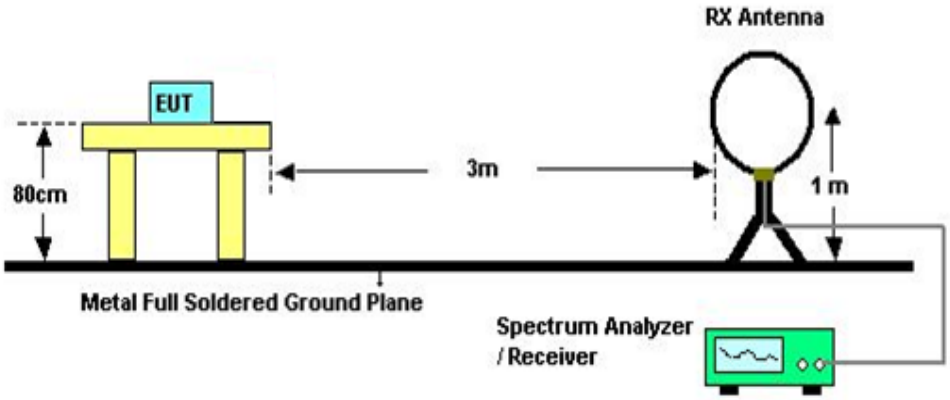
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: 27°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

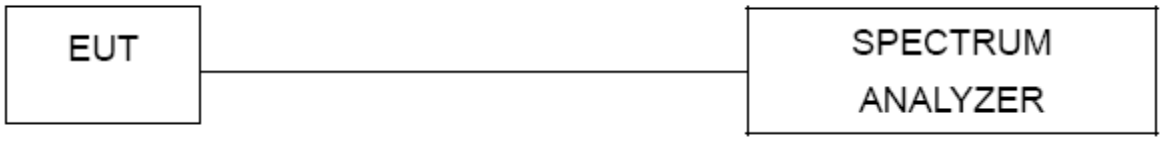
5.1.1 TEST PROCEDURE

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: 27°C Relative Humidity: 57% 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: 27°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.

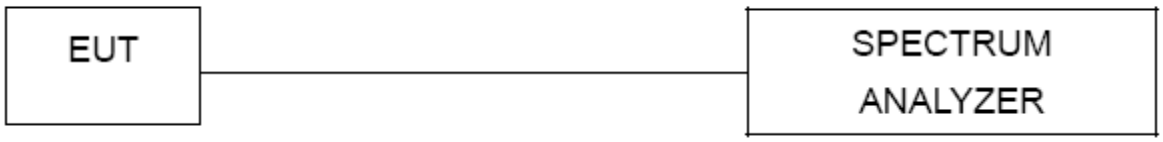
7.1.1 TEST PROCEDURE

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: 27°C Relative Humidity: 60% 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

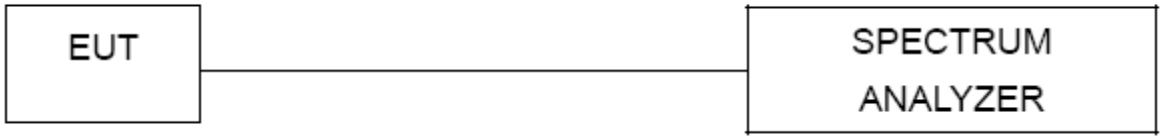
8.1.1 TEST PROCEDURE

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: 27°C Relative Humidity: 59% 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	emci	RG223(9KHz -30MHz)	C_17	Mar. 13, 2016
4	EMI Test Receiver	R&S	ESCS30	826547/022	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	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
8	Test Cable	emci	EMC104-SM-SM-10000(1GHz－26.5GHz)	C-68	Jun. 28, 2016
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 15, 2016
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 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

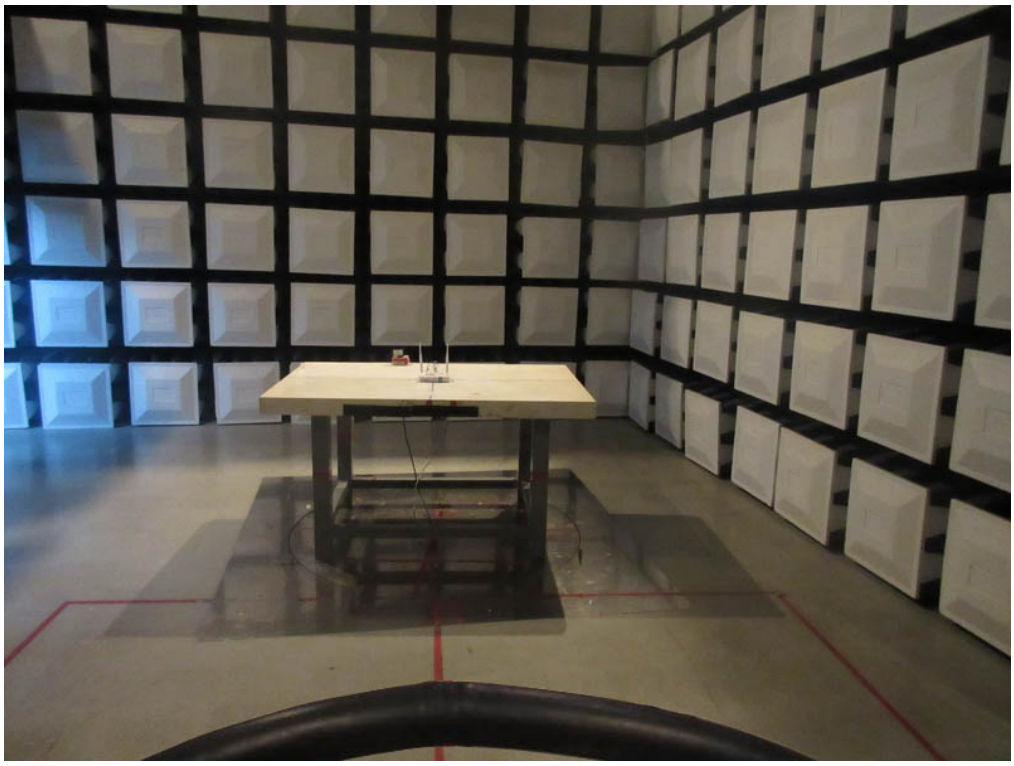
Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

10. EUT TEST PHOTO

Conducted Measurement Photos

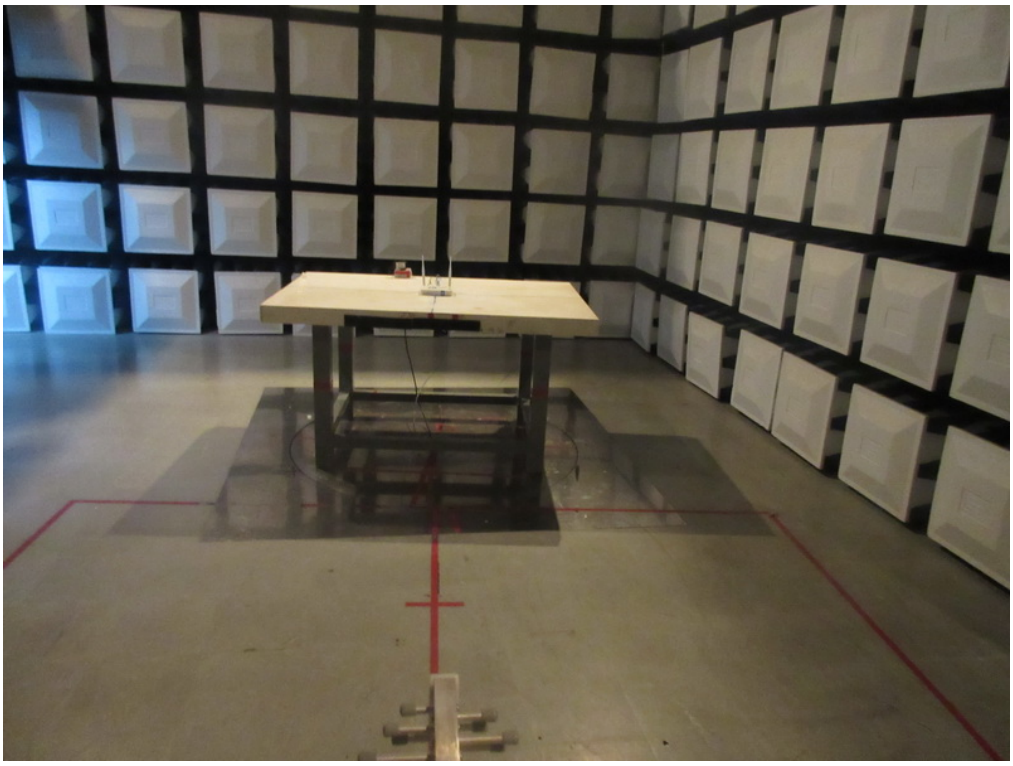
Radiated Measurement Photos

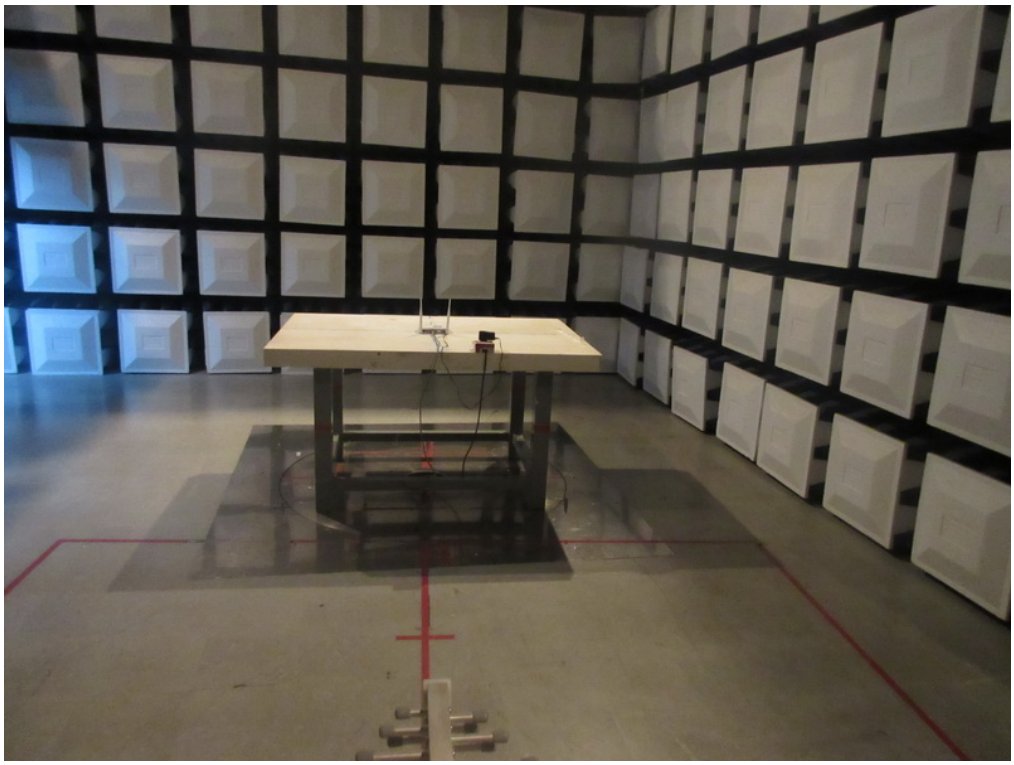
9KHz to 30MHz



Radiated Measurement Photos

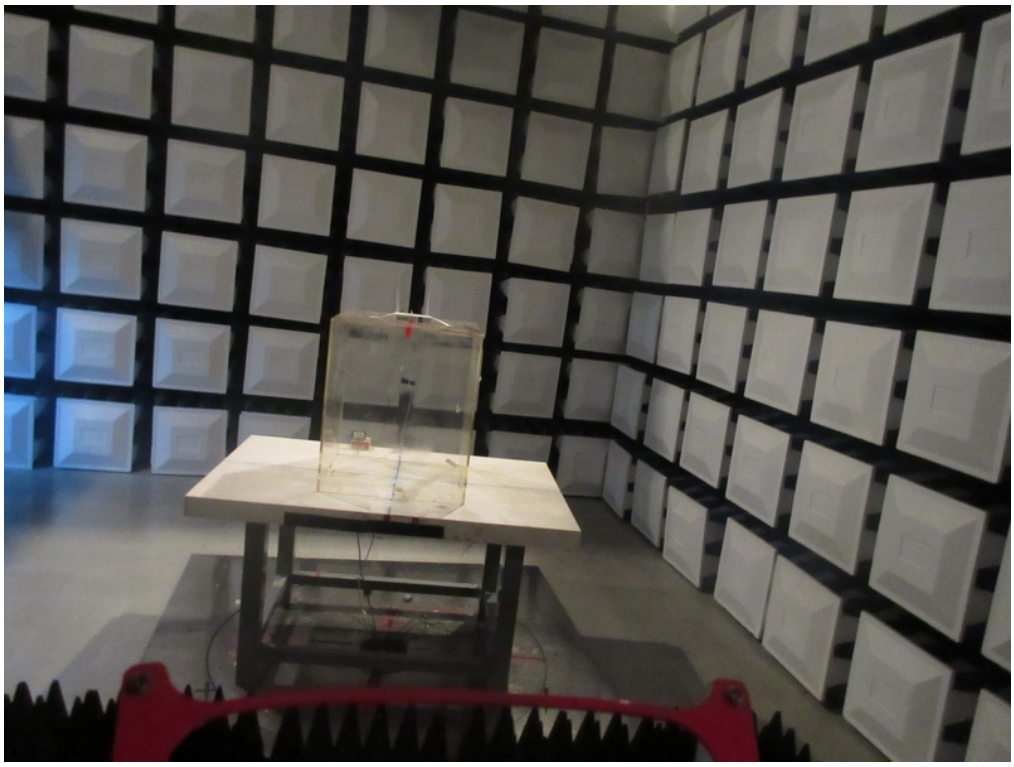
30MHz to 1000MHz

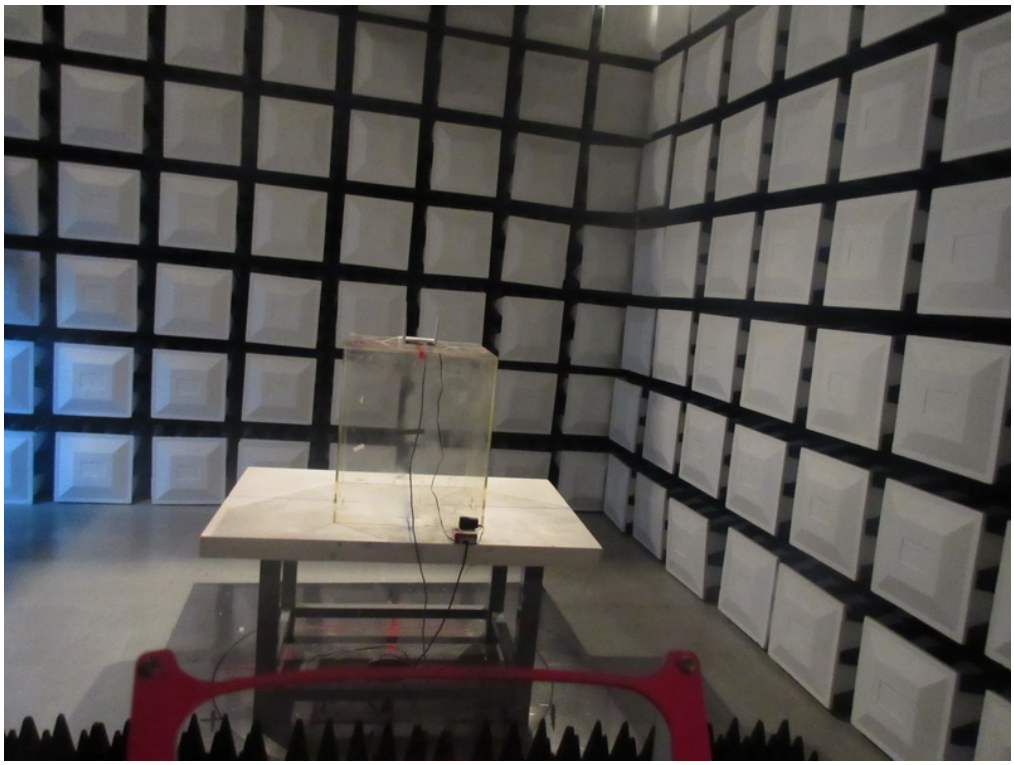




Radiated Measurement Photos

Above 1000MHz

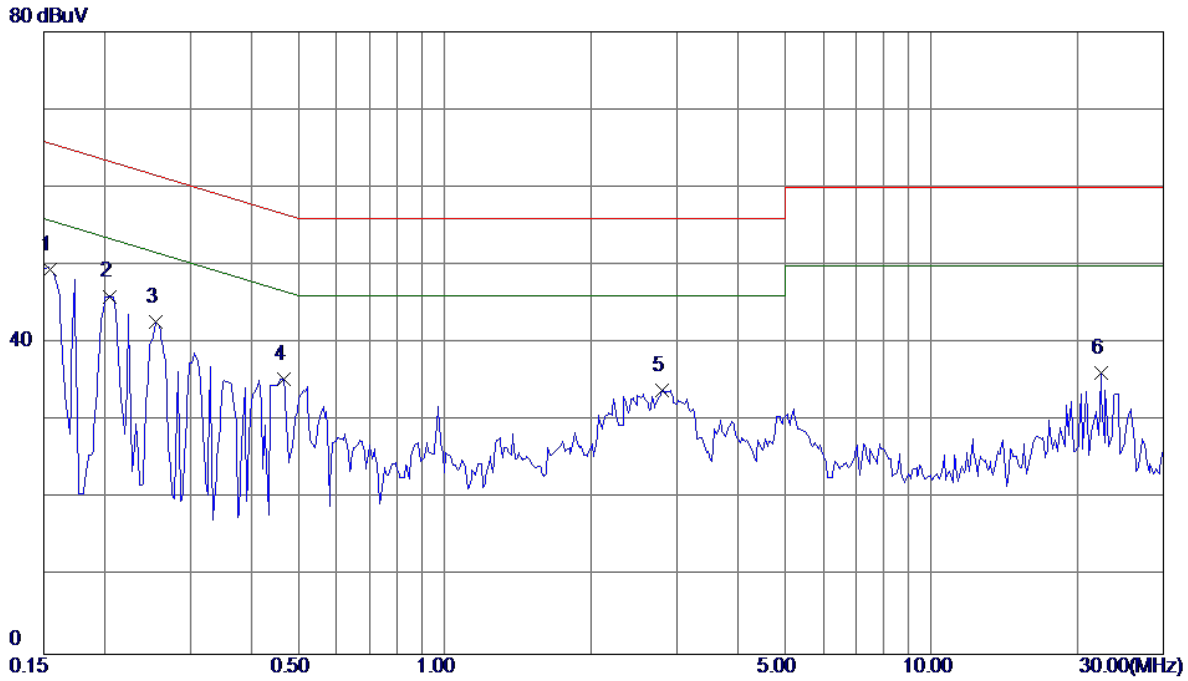




ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	TX MODE

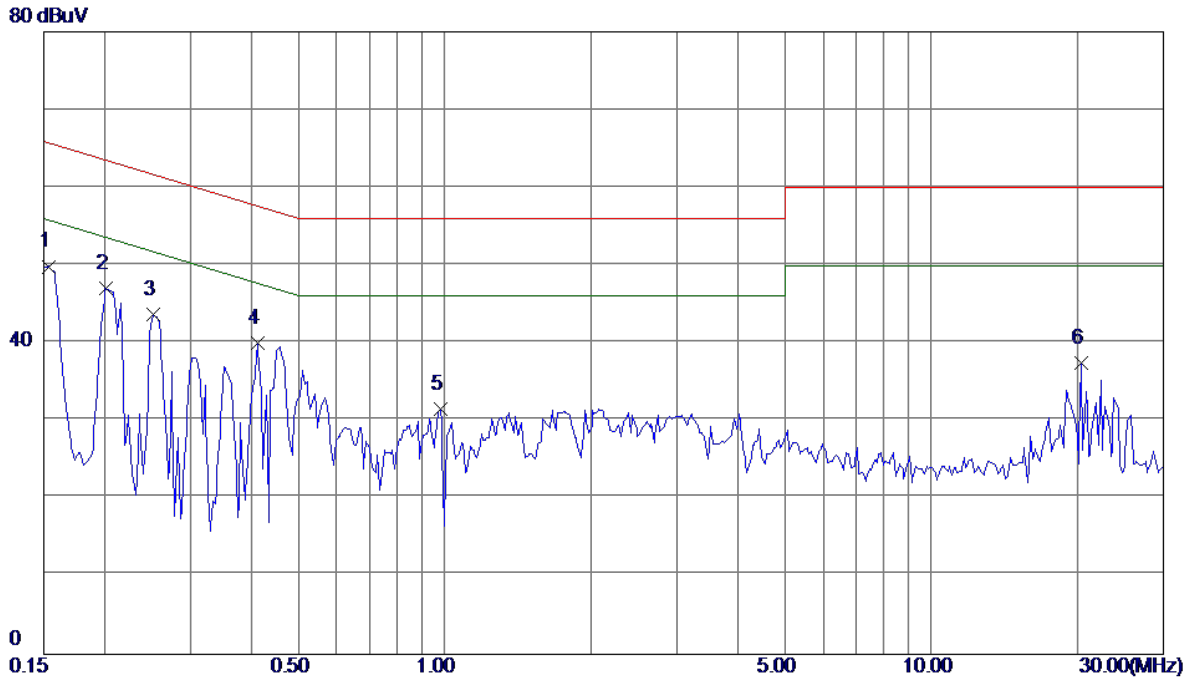
Line



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1548	39.97	9.54	49.51	65.74	-16.23	Peak	
2	0.2047	36.43	9.57	46.00	63.42	-17.42	Peak	
3	0.2555	33.03	9.62	42.65	61.58	-18.93	Peak	
4	0.4664	25.65	9.68	35.33	56.58	-21.25	Peak	
5	2.8023	23.90	10.02	33.92	56.00	-22.08	Peak	
6	22.3047	26.25	9.90	36.15	60.00	-23.85	Peak	

Test Mode :	TX MODE

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1539	40.35	9.49	49.84	65.79	-15.95	Peak	
2	0.2008	37.51	9.50	47.01	63.58	-16.57	Peak	
3	0.2516	34.22	9.51	43.73	61.70	-17.97	Peak	
4	0.4117	30.42	9.53	39.95	57.61	-17.66	Peak	
5	0.9820	21.90	9.58	31.48	56.00	-24.52	Peak	
6	20.3672	27.49	9.97	37.46	60.00	-22.54	Peak	

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

Test Mode:	TX B MODE CHANNEL 01 (Adapter 1)

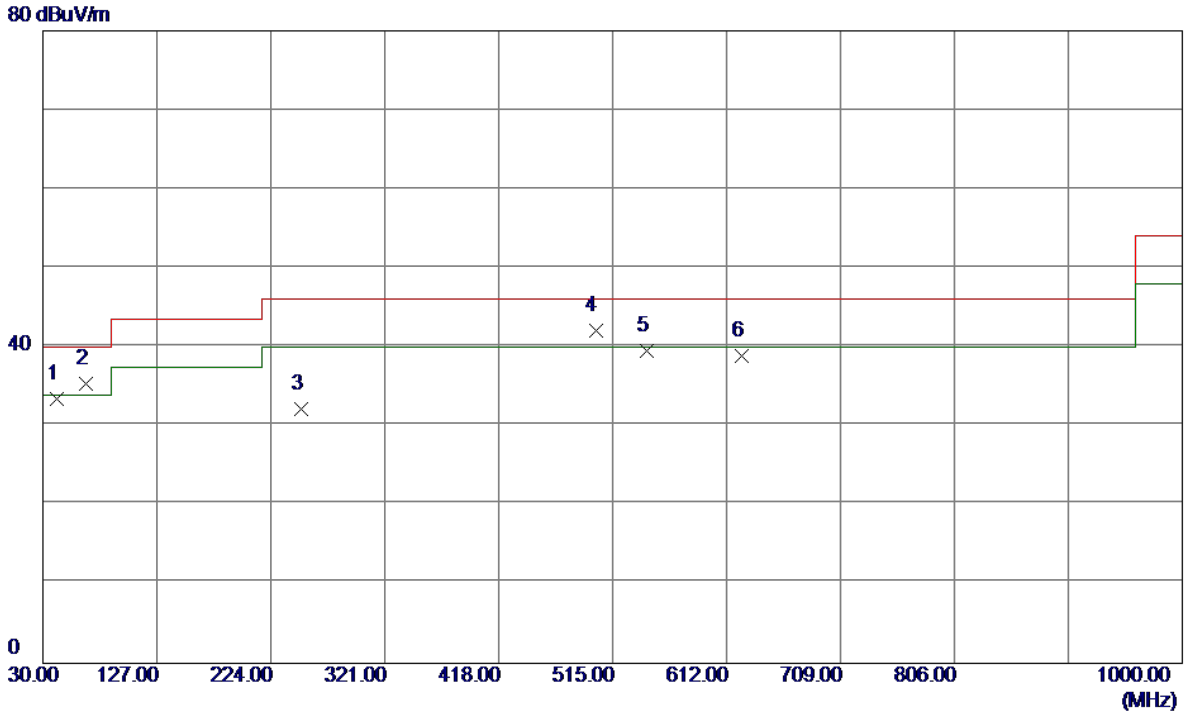
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0103	0°	13.77	24.9143	38.6843	127.3475	-88.6631	AVG
0.0103	0°	14.69	24.9143	39.6043	147.3475	-107.7431	PEAK
0.0294	0°	6.85	23.7047	30.5547	118.2373	-87.6826	AVG
0.0294	0°	8.37	23.7047	32.0747	138.2373	-106.1626	PEAK
0.0396	0°	3.22	23.0587	26.2787	115.6503	-89.3717	AVG
0.0396	0°	5.64	23.0587	28.6987	135.6503	-106.9517	PEAK
0.0633	0°	1.38	22.1340	23.5140	111.5762	-88.0622	AVG
0.0633	0°	2.71	22.1340	24.8440	131.5762	-106.7322	PEAK
0.5201	0°	19.83	19.8643	39.6943	73.2825	-33.5882	QP
1.865	0°	23.5	19.5135	43.0135	69.5400	-26.5265	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0147	90°	13.32	24.3000	37.6200	124.2579	-86.6379	AVG
0.0147	90°	14.91	24.3000	39.2100	144.2579	-105.0479	PEAK
0.0293	90°	7.44	23.7110	31.1510	118.2669	-87.1159	AVG
0.0293	90°	9.02	23.7110	32.7310	138.2669	-105.5359	PEAK
0.0457	90°	5.56	22.6723	28.2323	114.4059	-86.1736	AVG
0.0457	90°	6.27	22.6723	28.9423	134.4059	-105.4636	PEAK
0.0633	90°	1.48	22.1340	23.6140	111.5762	-87.9622	AVG
0.0633	90°	2.95	22.1340	25.0840	131.5762	-106.4922	PEAK
0.6489	90°	22.35	20.2765	42.6265	71.3607	-28.7342	QP
2.0096	90°	24.27	19.4942	43.7642	69.5400	-25.7758	QP

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

Test Mode:	TX B MODE CHANNEL 01

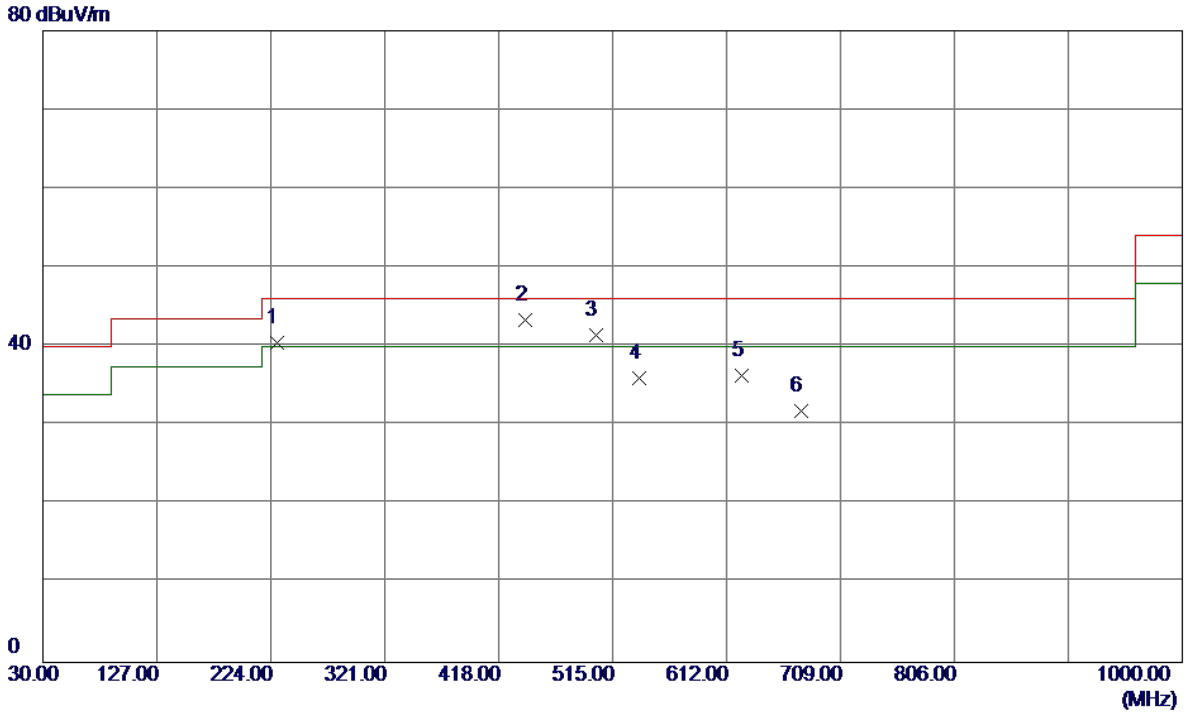
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	41.6400	47.16	-13.72	33.44	40.00	-6.56	Peak	
2	66.8600	50.66	-15.36	35.30	40.00	-4.70	Peak	
3	250.1900	46.52	-14.30	32.22	46.00	-13.78	Peak	
4	500.4500	52.09	-9.95	42.14	46.00	-3.86	Peak	
5	544.1000	45.23	-5.71	39.52	46.00	-6.48	Peak	
6	624.6100	45.38	-6.51	38.87	46.00	-7.13	Peak	

Test Mode:	TX B MODE CHANNEL 01

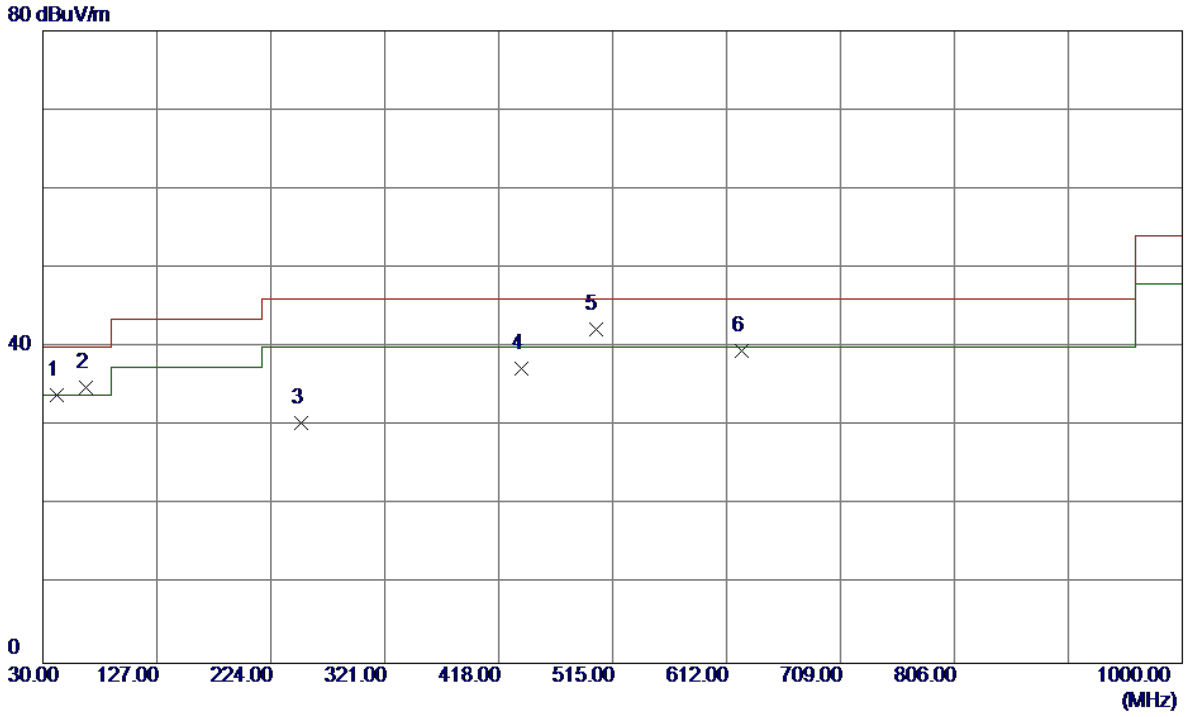
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	228.8500	54.81	-14.34	40.47	46.00	-5.53	Peak	
2	440.3100	51.65	-8.30	43.35	46.00	-2.65	Peak	
3	500.4500	51.43	-9.95	41.48	46.00	-4.52	Peak	
4	537.3100	42.42	-6.37	36.05	46.00	-9.95	Peak	
5	624.6100	42.82	-6.51	36.31	46.00	-9.69	Peak	
6	675.0500	36.48	-4.65	31.83	46.00	-14.17	Peak	

Test Mode:	TX B MODE CHANNEL 06

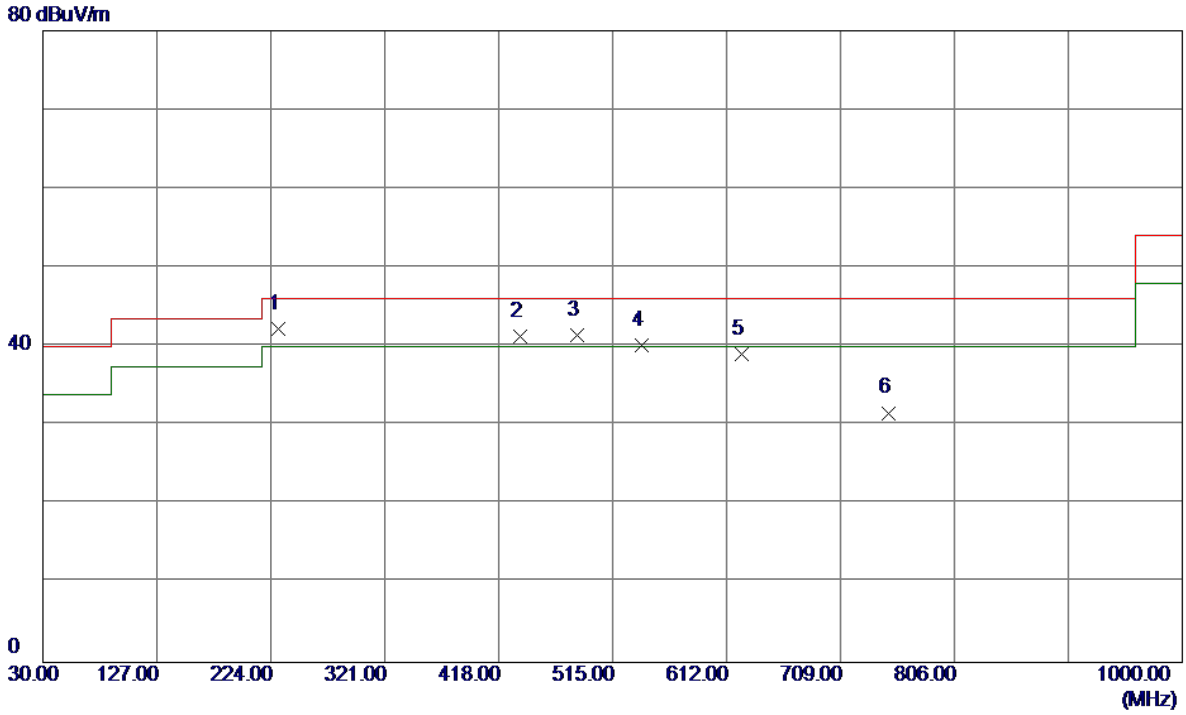
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	41.6400	47.57	-13.72	33.85	40.00	-6.15	Peak	
2	66.8600	50.31	-15.36	34.95	40.00	-5.05	Peak	
3	250.1900	44.77	-14.30	30.47	46.00	-15.53	Peak	
4	437.4000	45.67	-8.37	37.30	46.00	-8.70	Peak	
5	500.4500	52.25	-9.95	42.30	46.00	-3.70	Peak	
6	624.6100	46.06	-6.51	39.55	46.00	-6.45	Peak	

Test Mode:	TX B MODE CHANNEL 06

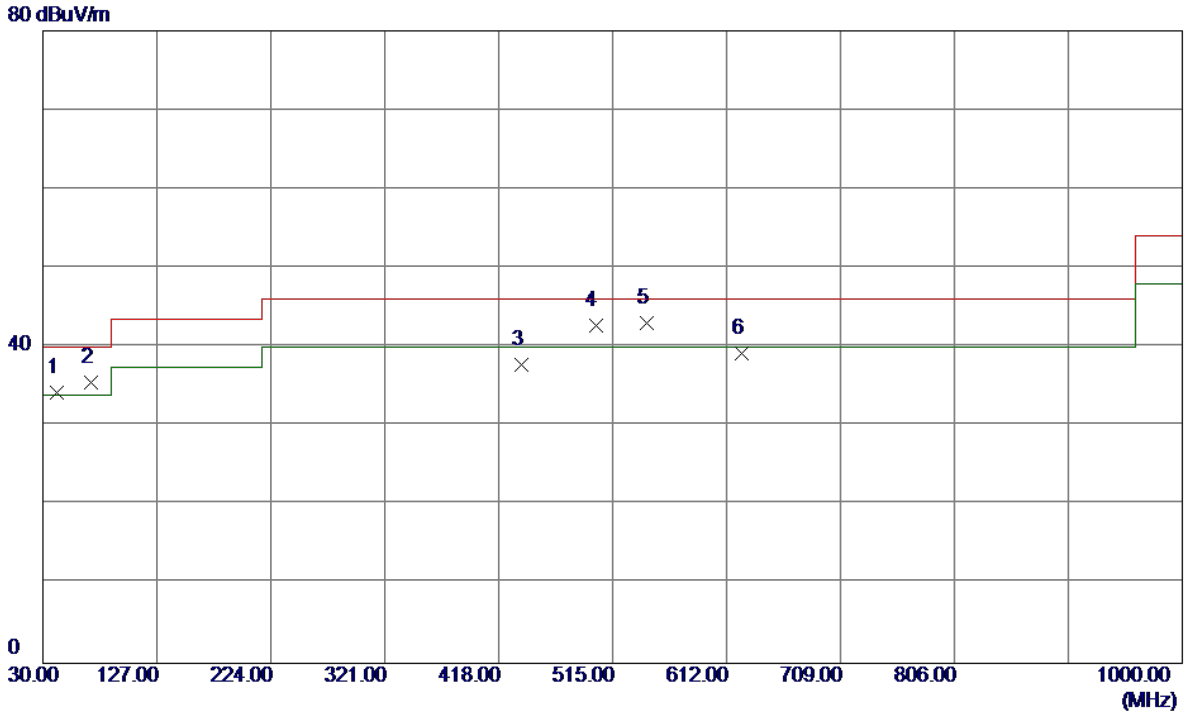
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	230.7900	56.51	-14.33	42.18	46.00	-3.82	Peak	
2	436.4300	49.68	-8.39	41.29	46.00	-4.71	Peak	
3	484.9300	50.85	-9.41	41.44	46.00	-4.56	Peak	
4	540.2200	46.22	-6.09	40.13	46.00	-5.87	Peak	
5	624.6100	45.56	-6.51	39.05	46.00	-6.95	Peak	
6	749.7400	36.20	-4.60	31.60	46.00	-14.40	Peak	

Test Mode:	TX B MODE CHANNEL 11

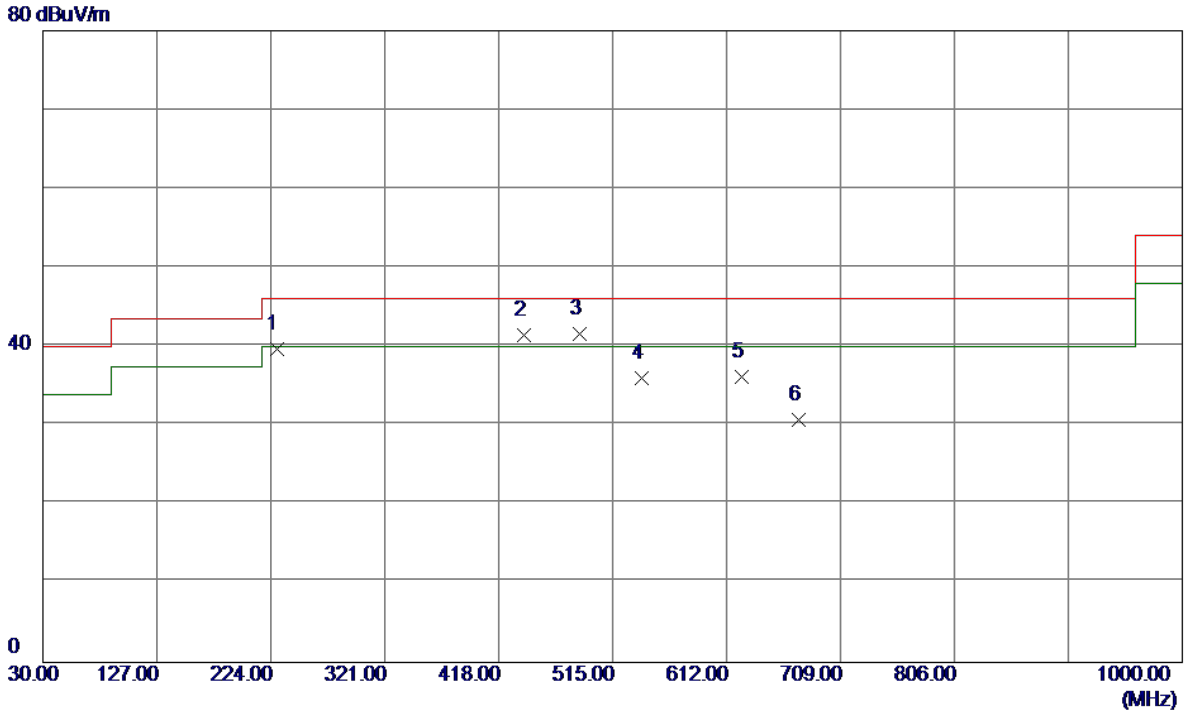
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	41.6400	47.93	-13.72	34.21	40.00	-5.79	Peak	
2	70.7400	51.47	-15.97	35.50	40.00	-4.50	Peak	
3	437.4000	46.17	-8.37	37.80	46.00	-8.20	Peak	
4	500.4500	52.74	-9.95	42.79	46.00	-3.21	Peak	
5	544.1000	48.75	-5.71	43.04	46.00	-2.96	Peak	
6	624.6100	45.69	-6.51	39.18	46.00	-6.82	Peak	

Test Mode:	TX B MODE CHANNEL 11

Horizontal

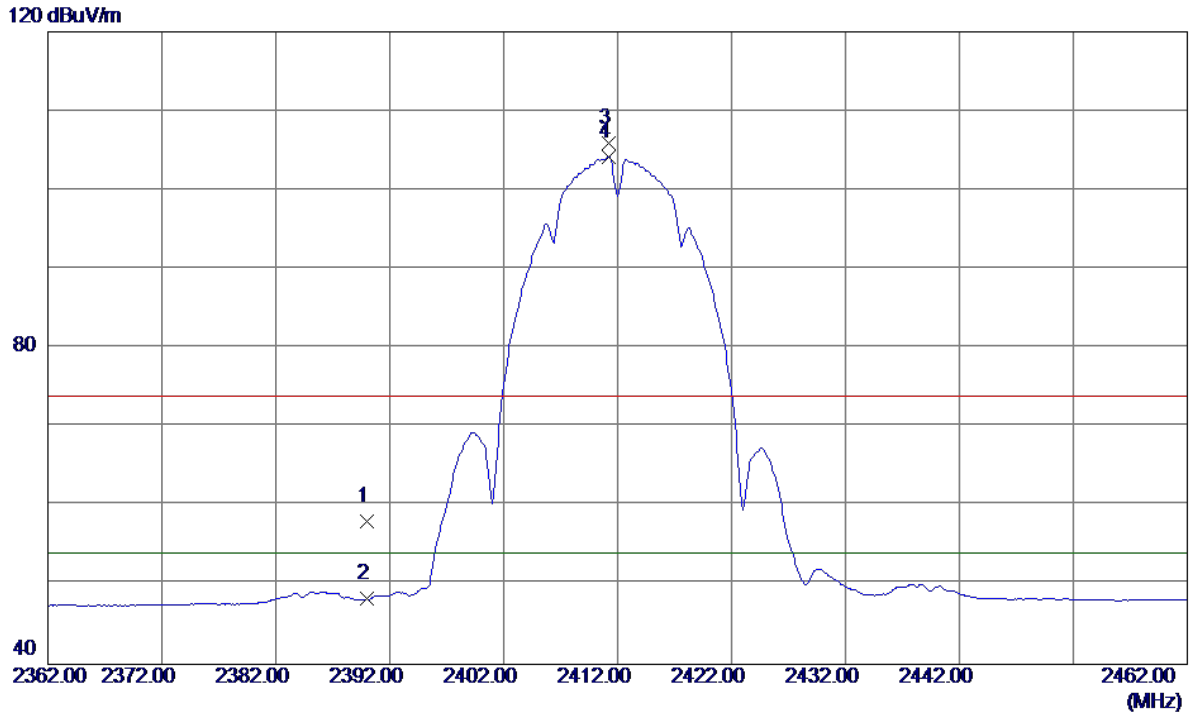


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	228.8500	54.00	-14.34	39.66	46.00	-6.34	Peak	
2	439.3400	49.72	-8.32	41.40	46.00	-4.60	Peak	
3	486.8700	51.11	-9.48	41.63	46.00	-4.37	Peak	
4	540.2200	42.08	-6.09	35.99	46.00	-10.01	Peak	
5	624.6100	42.74	-6.51	36.23	46.00	-9.77	Peak	
6	673.1100	35.46	-4.69	30.77	46.00	-15.23	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

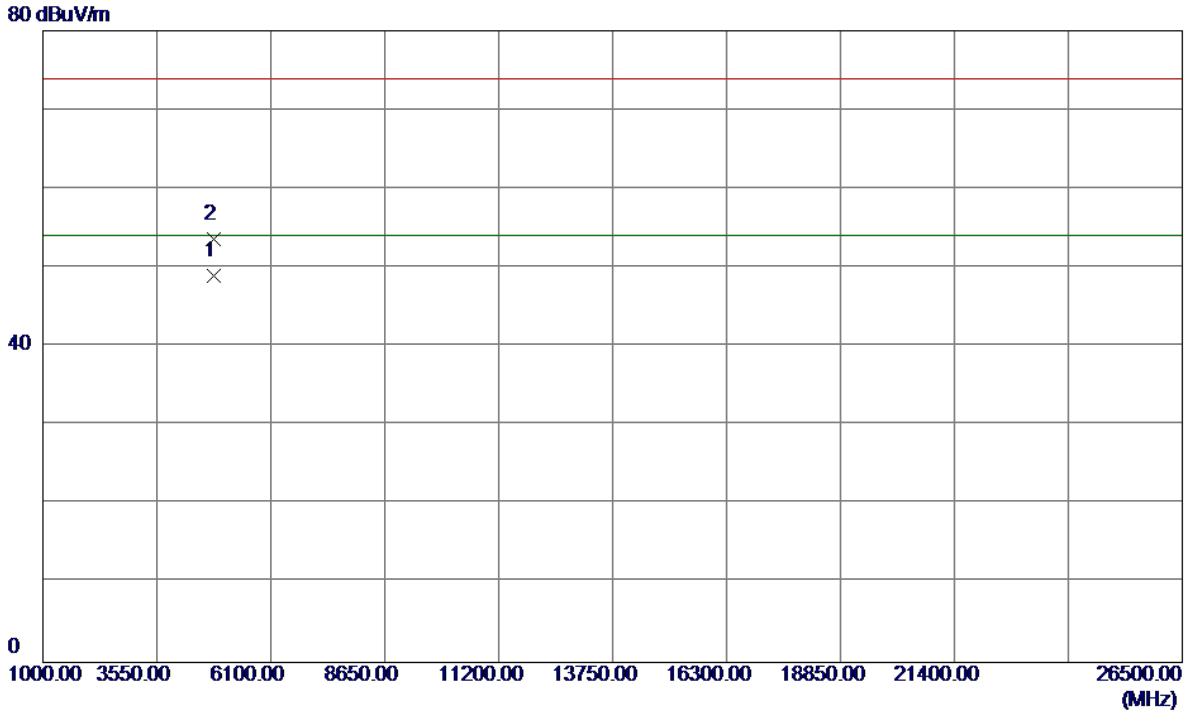
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.70	33.38	58.08	74.00	-15.92	Peak	
2	2390.0000	14.88	33.38	48.26	54.00	-5.74	AVG	
3	2411.2000	72.53	33.44	105.97	74.00	31.97	Peak	No Limit
4	2411.2000	70.69	33.44	104.13	54.00	50.13	AVG	No Limit

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

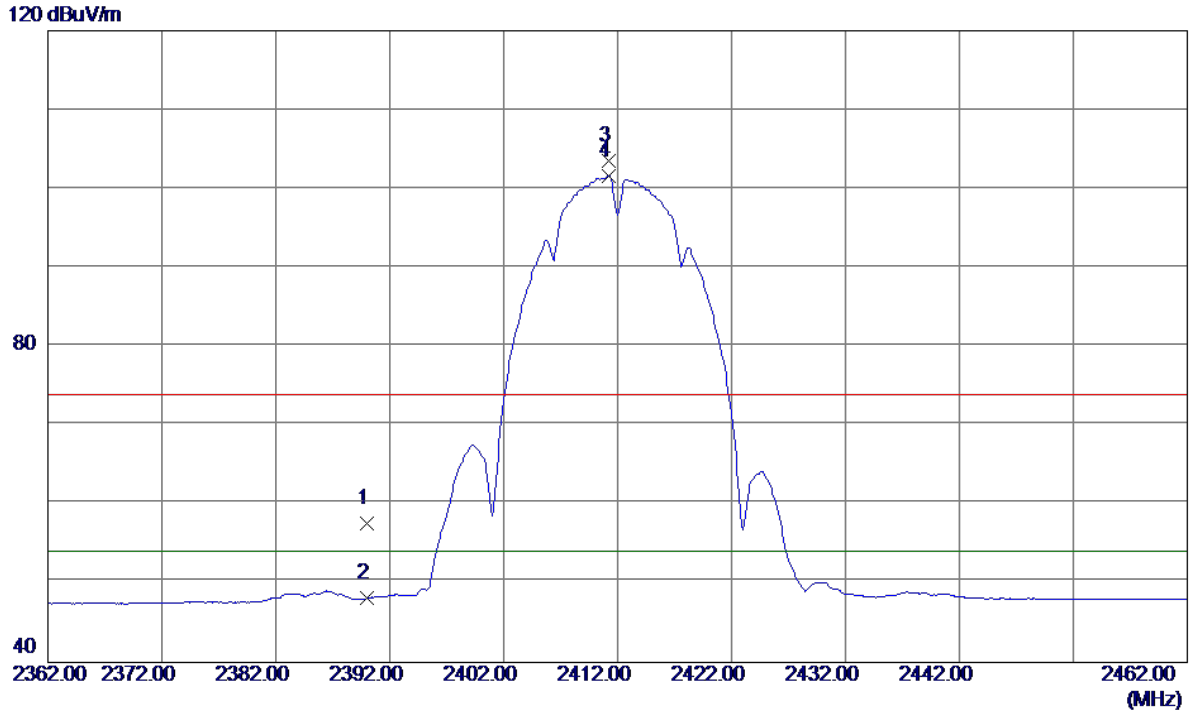
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9750	42.54	6.43	48.97	54.00	-5.03	AVG	
2	4824.0299	47.12	6.43	53.55	74.00	-20.45	Peak	

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

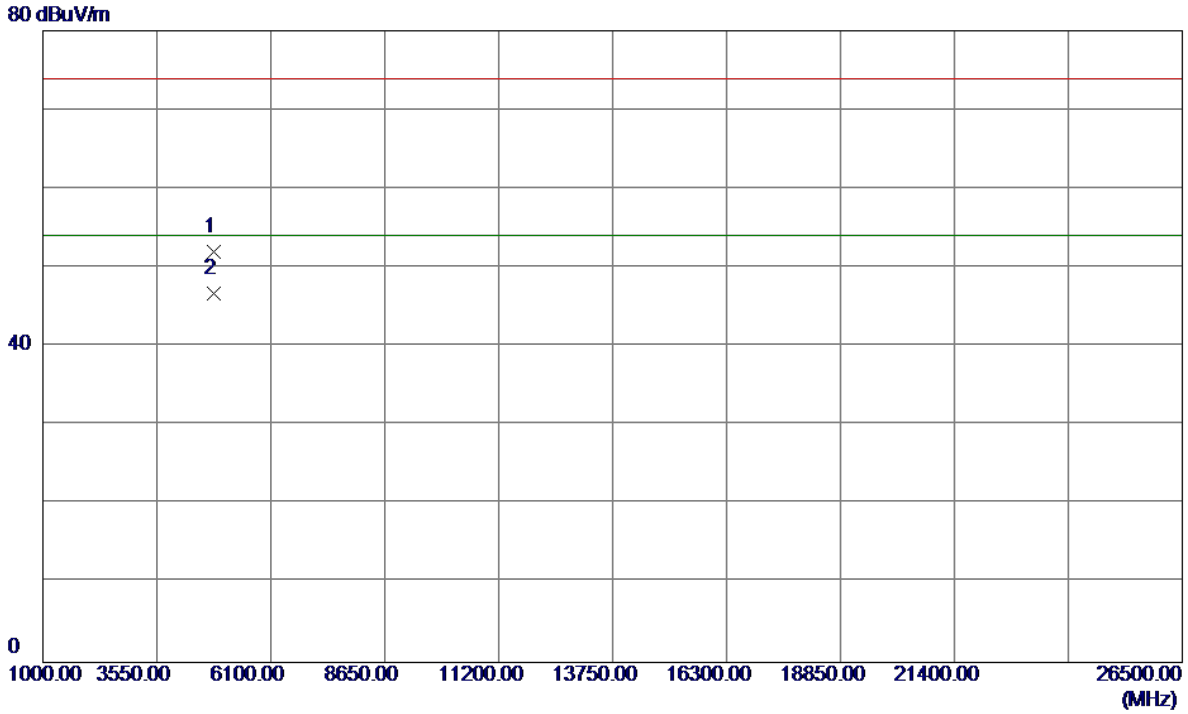
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.25	33.38	57.63	74.00	-16.37	Peak	
2	2390.0000	14.75	33.38	48.13	54.00	-5.87	AVG	
3	2411.2000	70.02	33.44	103.46	74.00	29.46	Peak	No Limit
4	2411.2000	68.17	33.44	101.61	54.00	47.61	AVG	No Limit

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

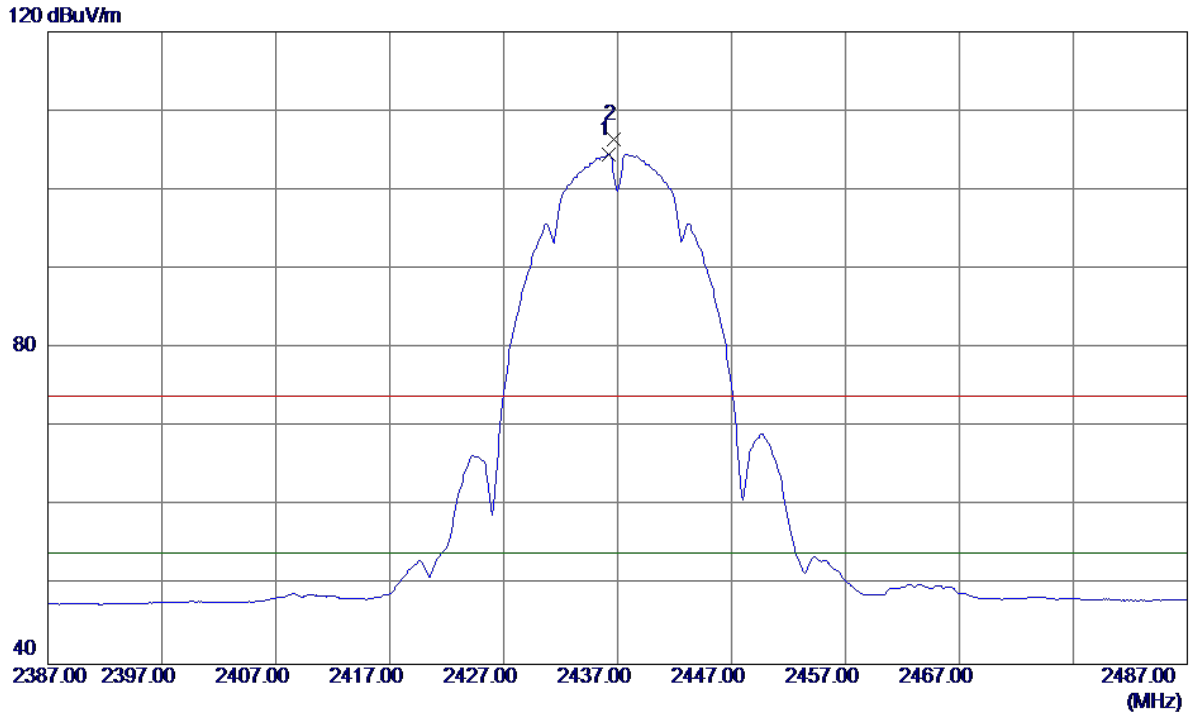
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.8050	45.61	6.43	52.04	74.00	-21.96	Peak	
2	4823.9750	40.25	6.43	46.68	54.00	-7.32	AVG	

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

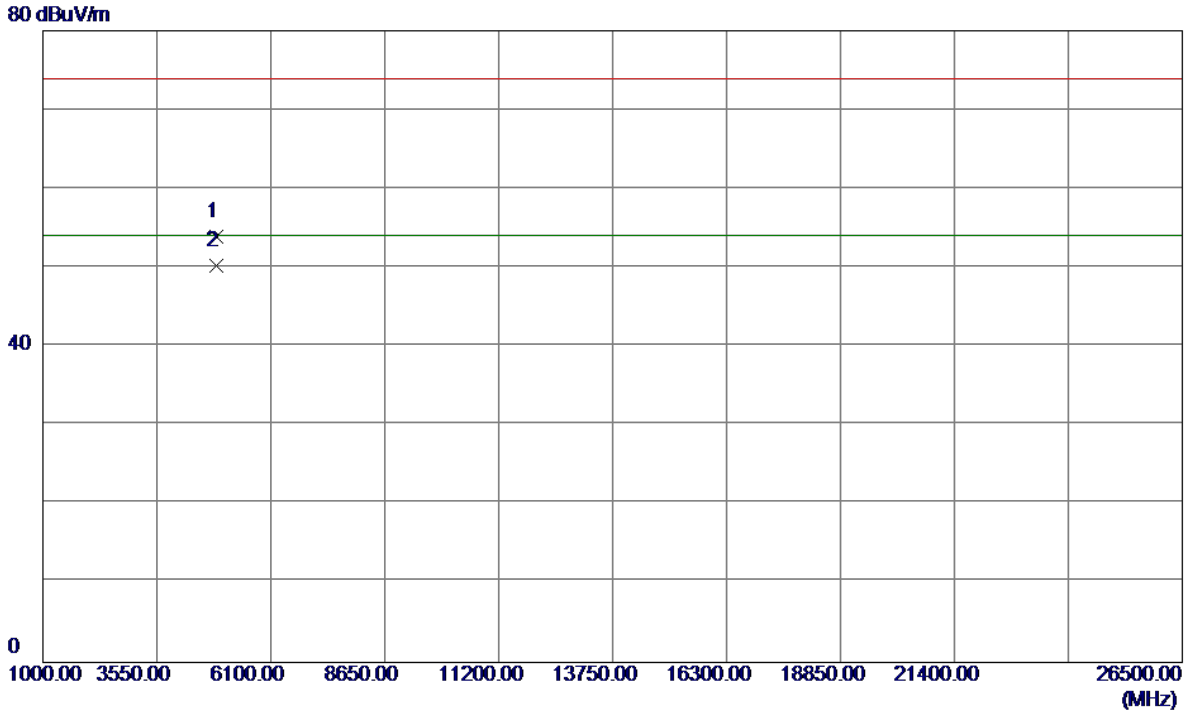
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.2000	71.00	33.50	104.50	54.00	50.50	AVG	No Limit
2	2436.7000	72.90	33.50	106.40	74.00	32.40	Peak	No Limit

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

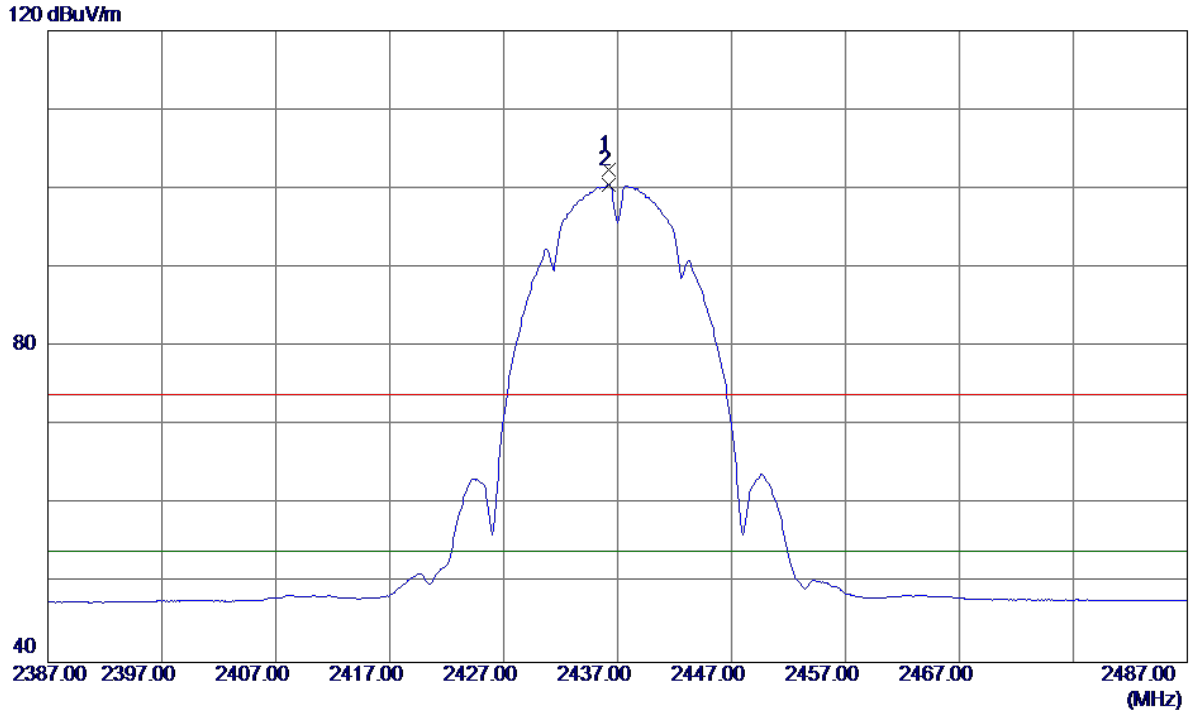
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8100	47.30	6.55	53.85	74.00	-20.15	Peak	
2	4873.9800	43.68	6.55	50.23	54.00	-3.77	AVG	

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

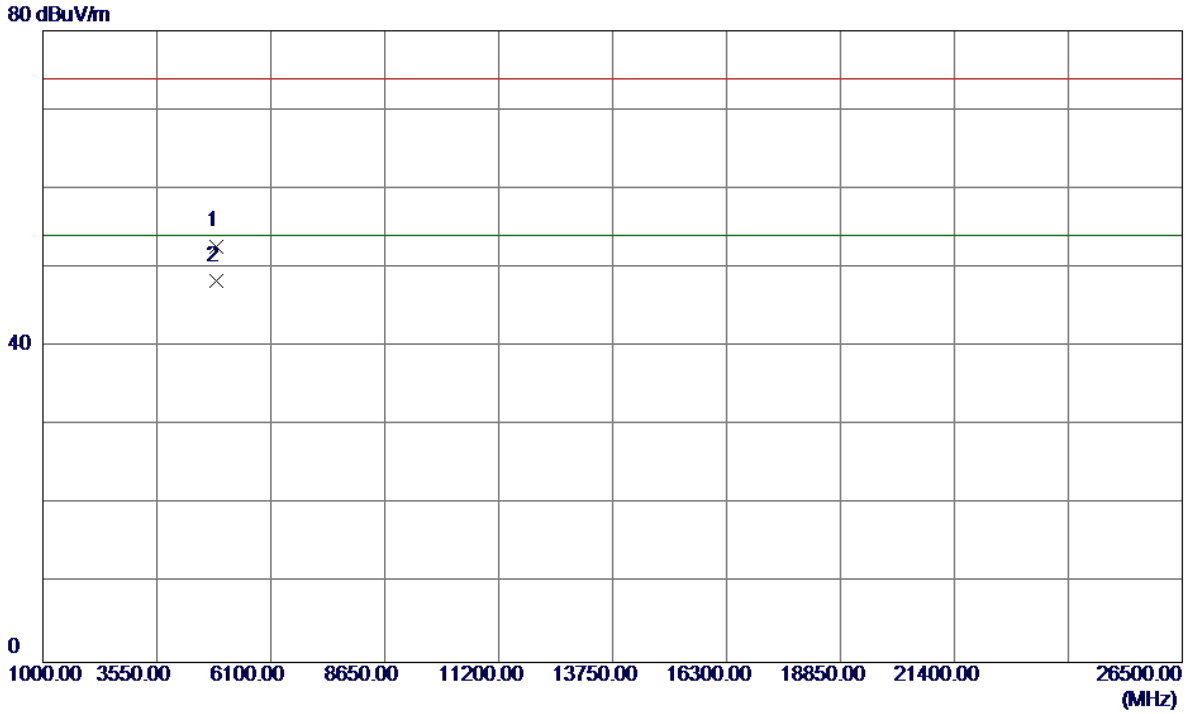
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.2000	68.86	33.50	102.36	74.00	28.36	Peak	No Limit
2	2436.2000	66.98	33.50	100.48	54.00	46.48	AVG	No Limit

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

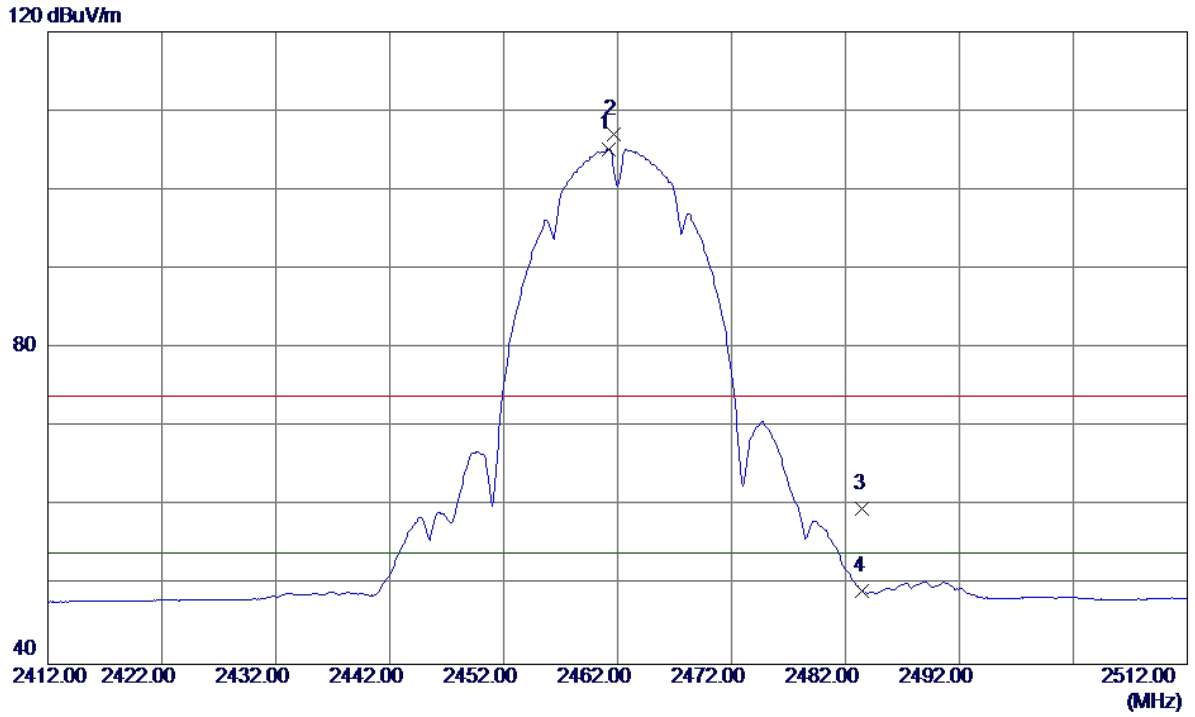
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9100	46.17	6.55	52.72	74.00	-21.28	Peak	
2	4873.9600	41.84	6.55	48.39	54.00	-5.61	AVG	

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

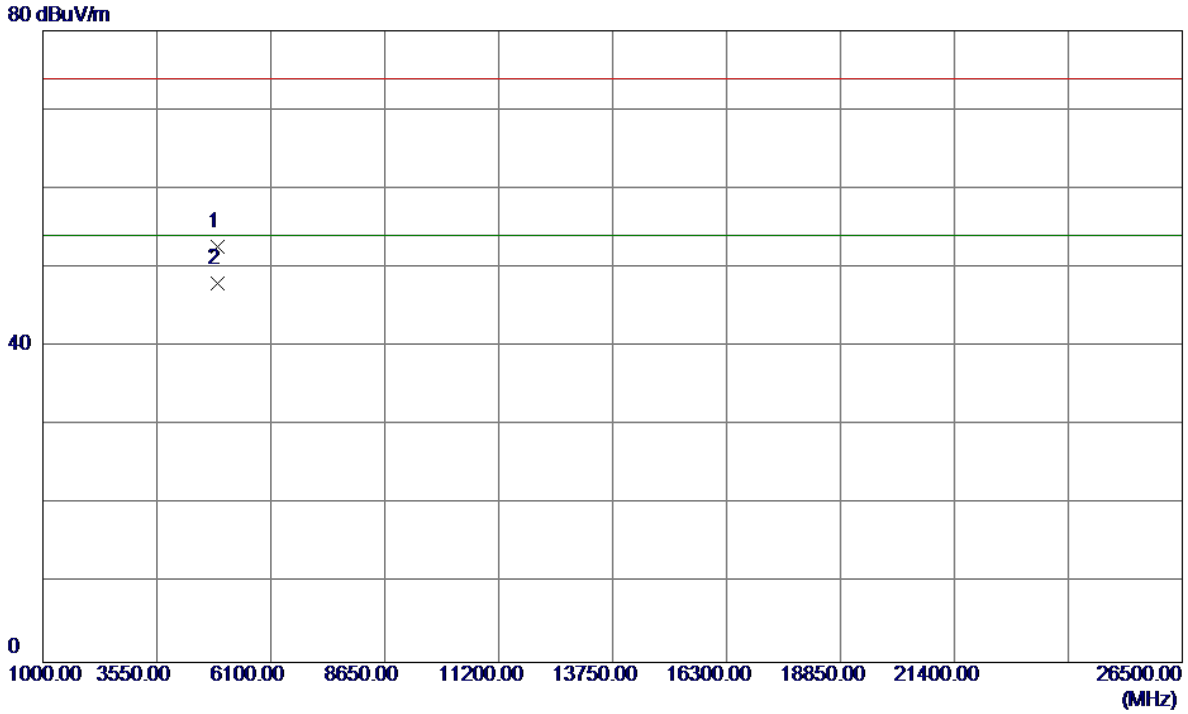
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.2000	71.64	33.56	105.20	54.00	51.20	AVG	No Limit
2	2461.7000	73.52	33.56	107.08	74.00	33.08	Peak	No Limit
3	2483.5000	26.12	33.62	59.74	74.00	-14.26	Peak	
4	2483.5000	15.62	33.62	49.24	54.00	-4.76	AVG	

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

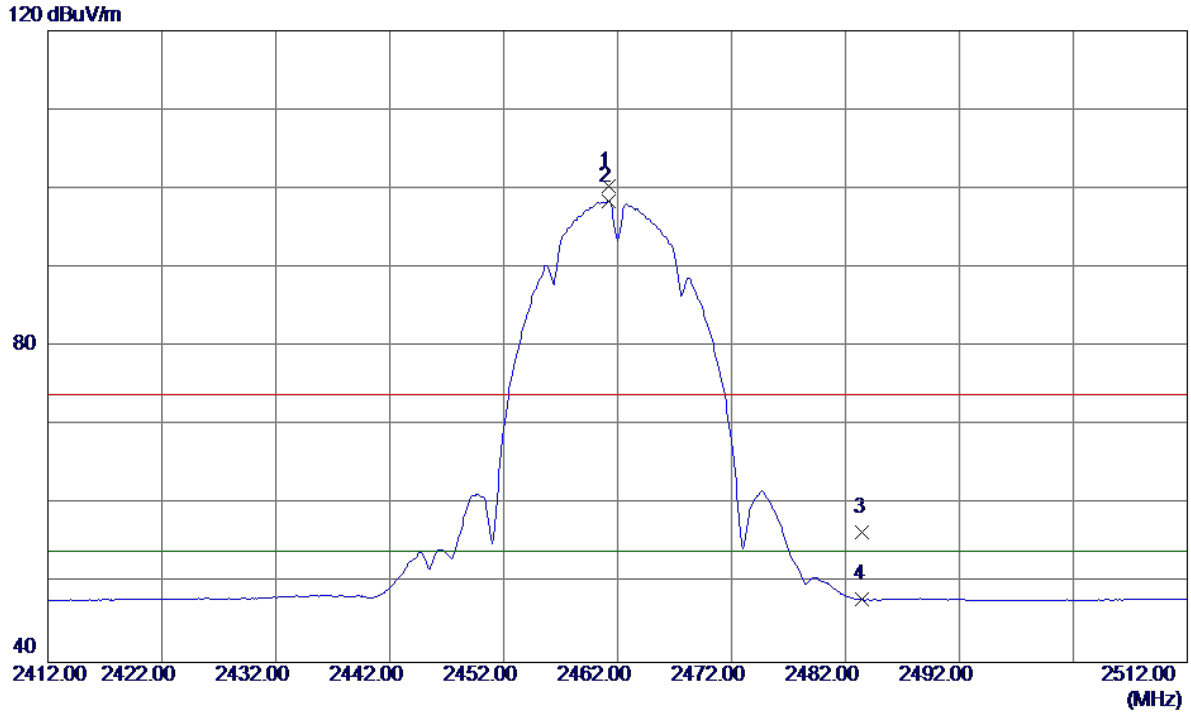
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.8900	46.01	6.66	52.67	74.00	-21.33	Peak	
2	4923.9700	41.39	6.66	48.05	54.00	-5.95	AVG	

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

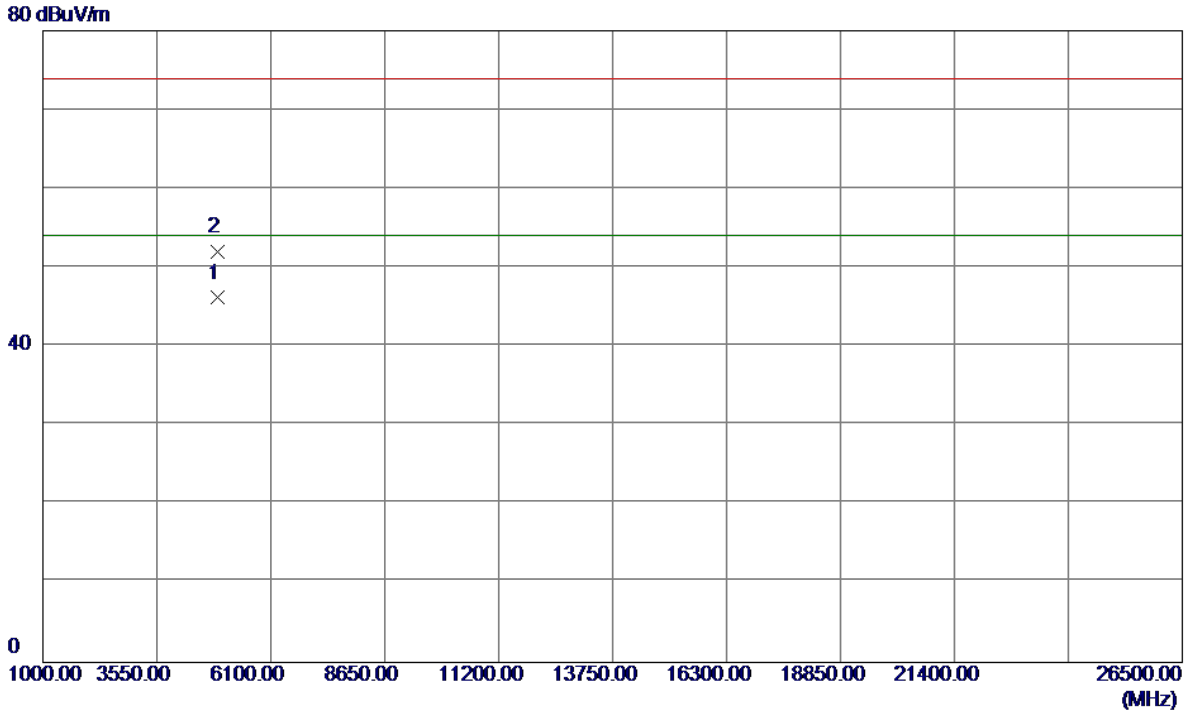
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.2000	66.75	33.56	100.31	74.00	26.31	Peak	No Limit
2	2461.2000	64.86	33.56	98.42	54.00	44.42	AVG	No Limit
3	2483.5000	22.81	33.62	56.43	74.00	-17.57	Peak	
4	2483.5000	14.31	33.62	47.93	54.00	-6.07	AVG	

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

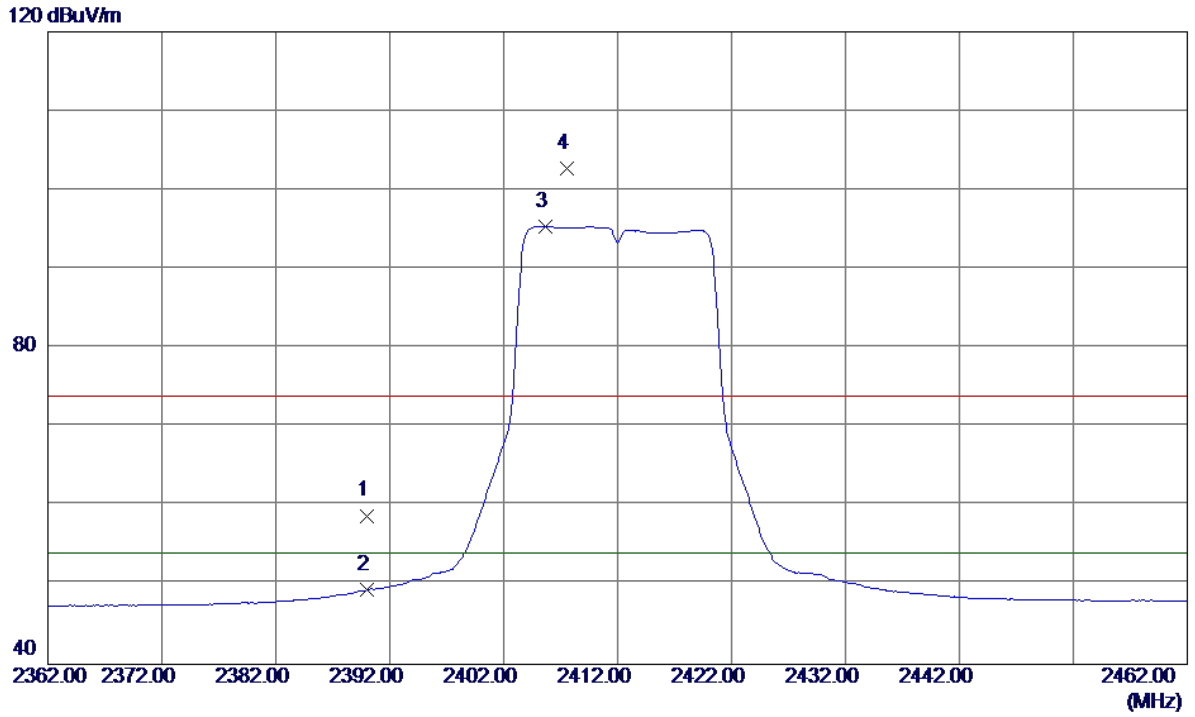
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9750	39.50	6.66	46.16	54.00	-7.84	AVG	
2	4923.9800	45.27	6.66	51.93	74.00	-22.07	Peak	

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

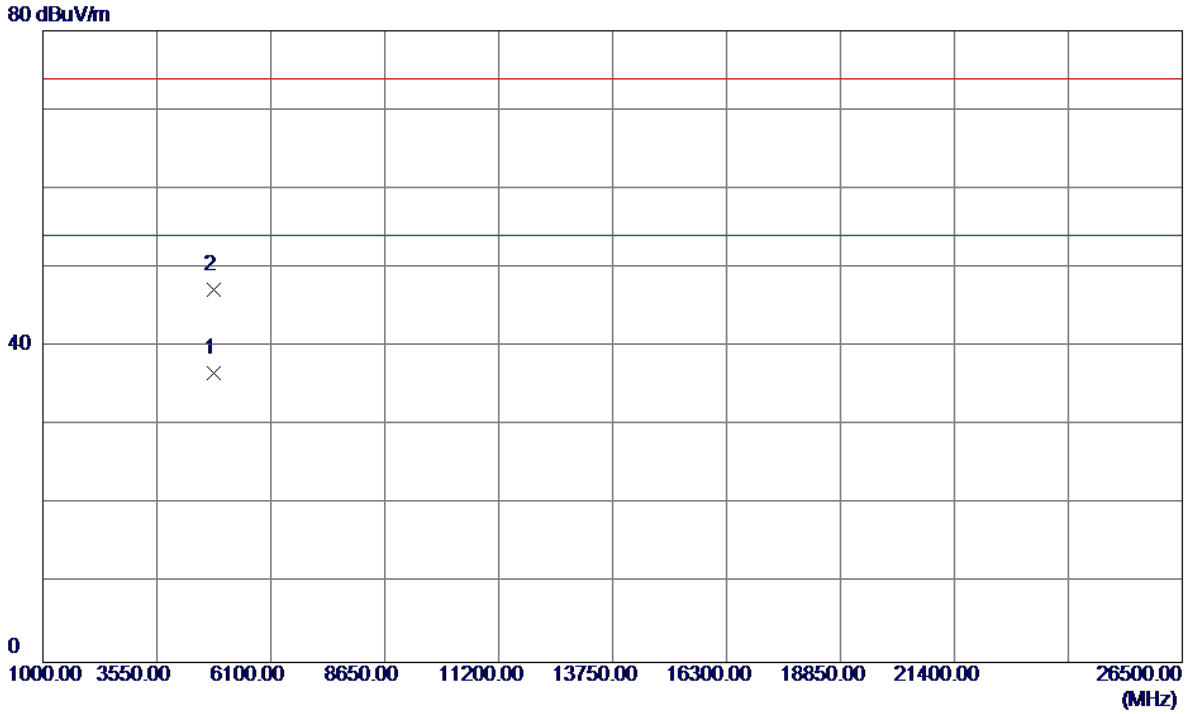
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25.42	33.38	58.80	74.00	-15.20	Peak	
2	2390.0000	16.02	33.38	49.40	54.00	-4.60	AVG	
3	2405.7000	61.94	33.42	95.36	54.00	41.36	AVG	No Limit
4	2407.6000	69.36	33.43	102.79	74.00	28.79	Peak	No Limit

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

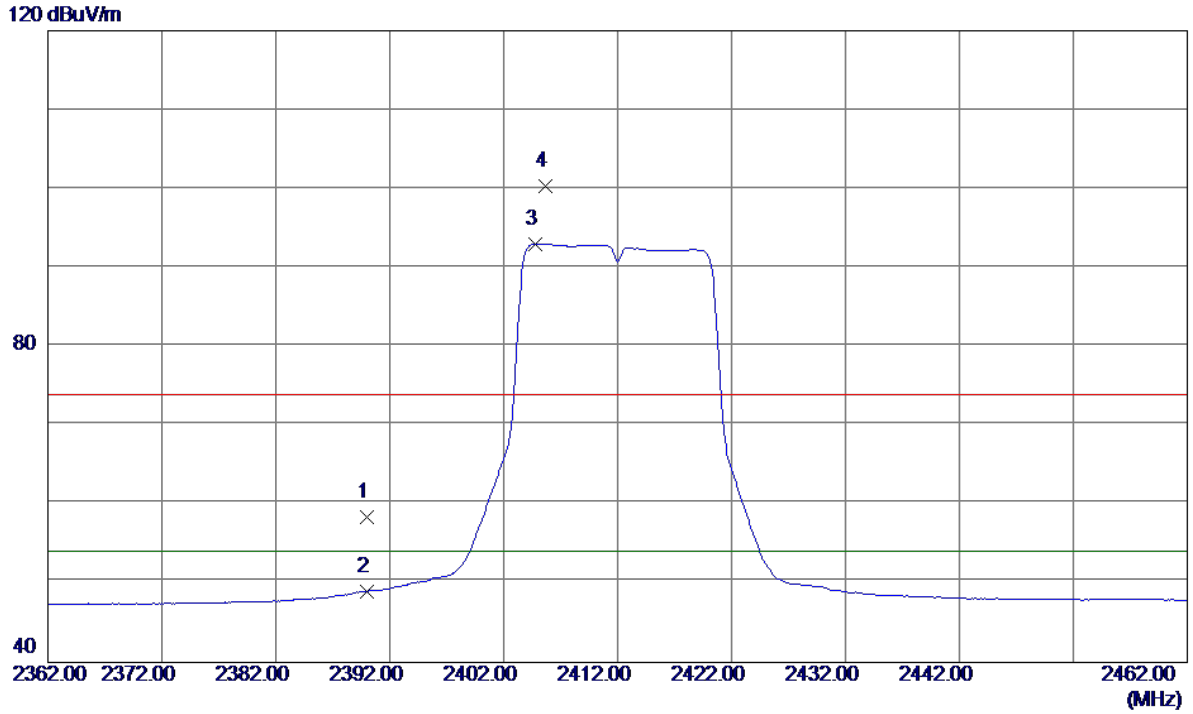
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9900	30.27	6.43	36.70	54.00	-17.30	AVG	
2	4824.0000	40.75	6.43	47.18	74.00	-26.82	Peak	

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

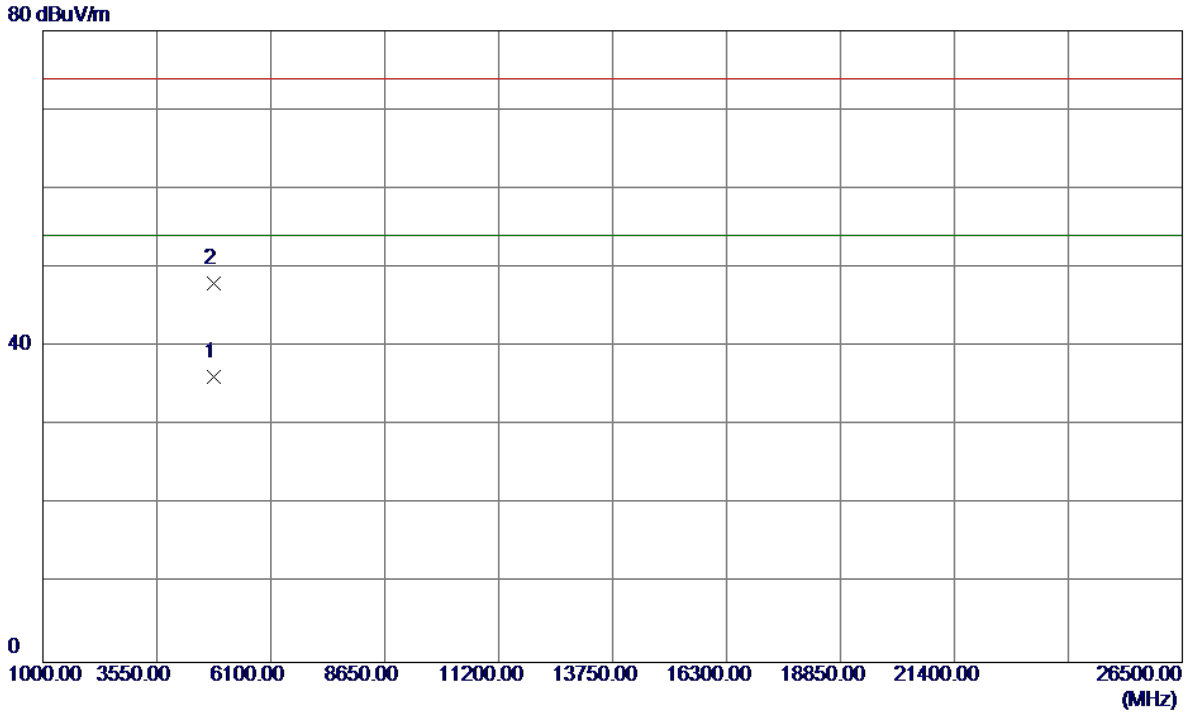
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25.09	33.38	58.47	74.00	-15.53	Peak	
2	2390.0000	15.61	33.38	48.99	54.00	-5.01	AVG	
3	2404.8000	59.55	33.42	92.97	54.00	38.97	AVG	No Limit
4	2405.7000	66.94	33.42	100.36	74.00	26.36	Peak	No Limit

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

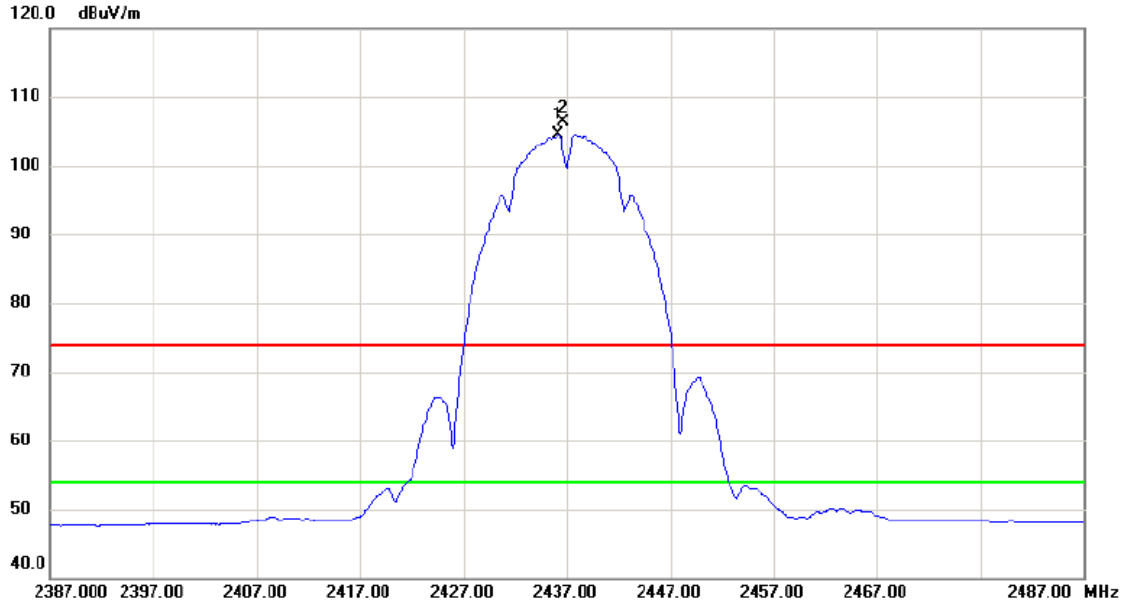
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0000	29.80	6.43	36.23	54.00	-17.77	AVG	
2	4824.0150	41.62	6.43	48.05	74.00	-25.95	Peak	

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

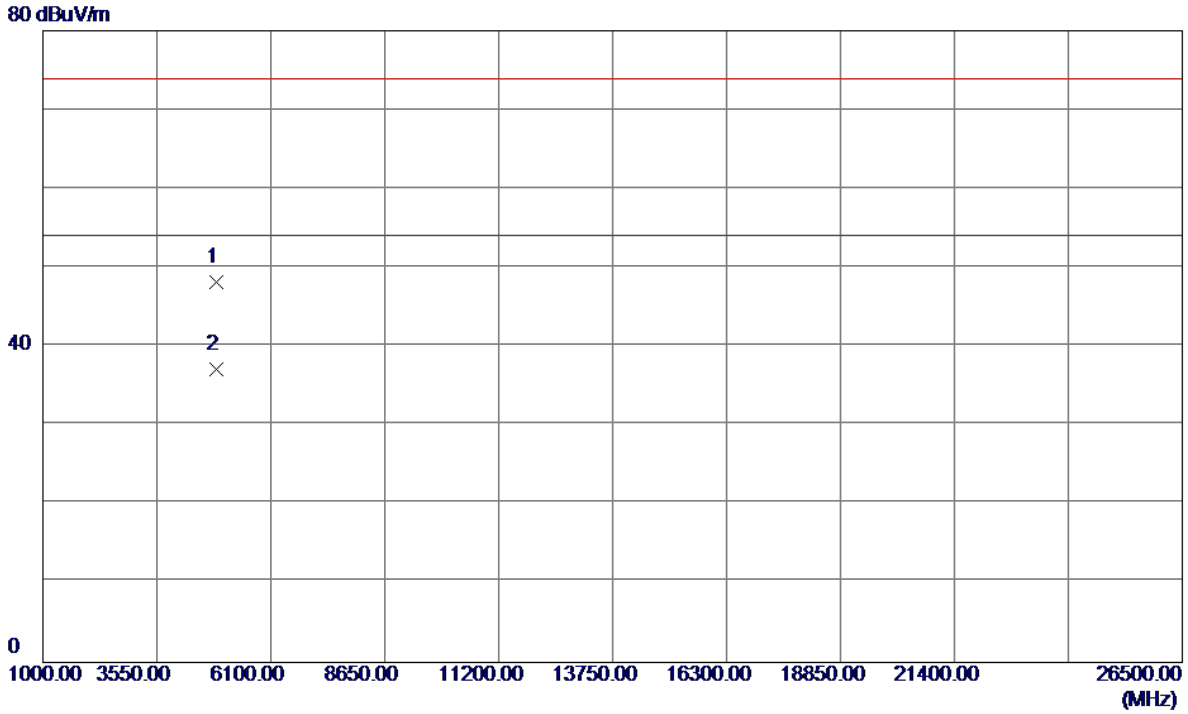
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2436.200	71.00	33.50	104.50	54.00	50.50	AVG	No Limit
2	X	2436.700	72.90	33.50	106.40	74.00	32.40	peak	No Limit

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

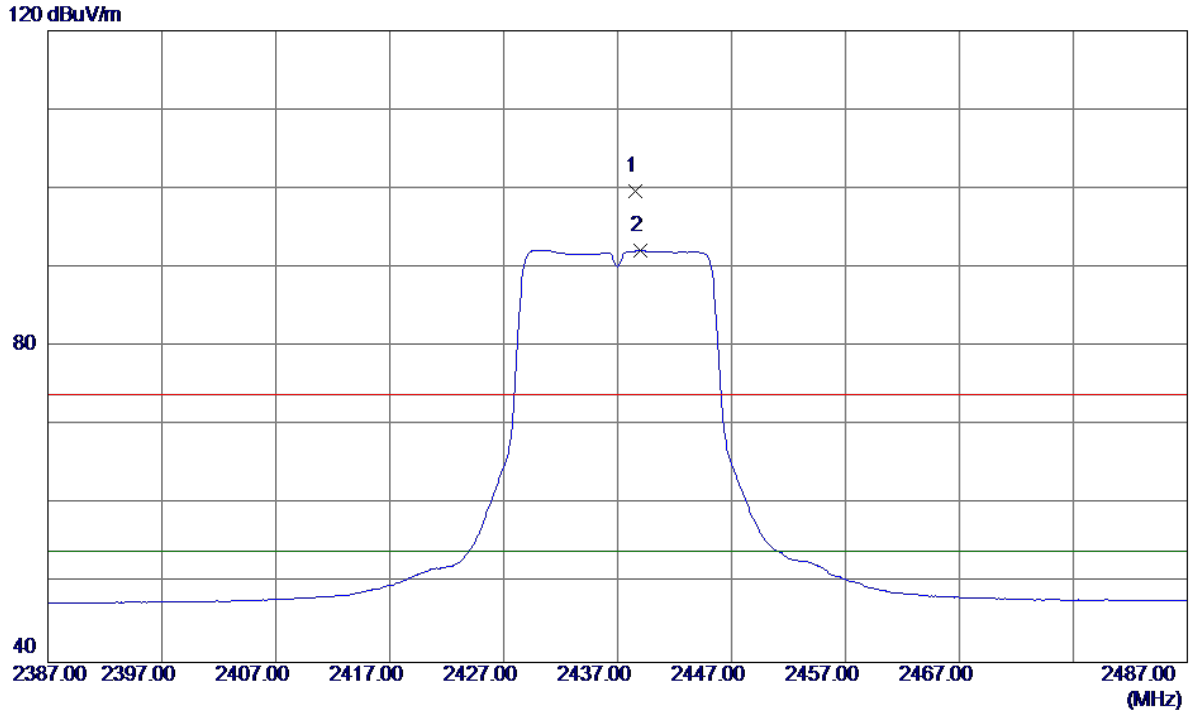
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0350	41.65	6.55	48.20	74.00	-25.80	Peak	
2	4874.1850	30.61	6.55	37.16	54.00	-16.84	AVG	

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

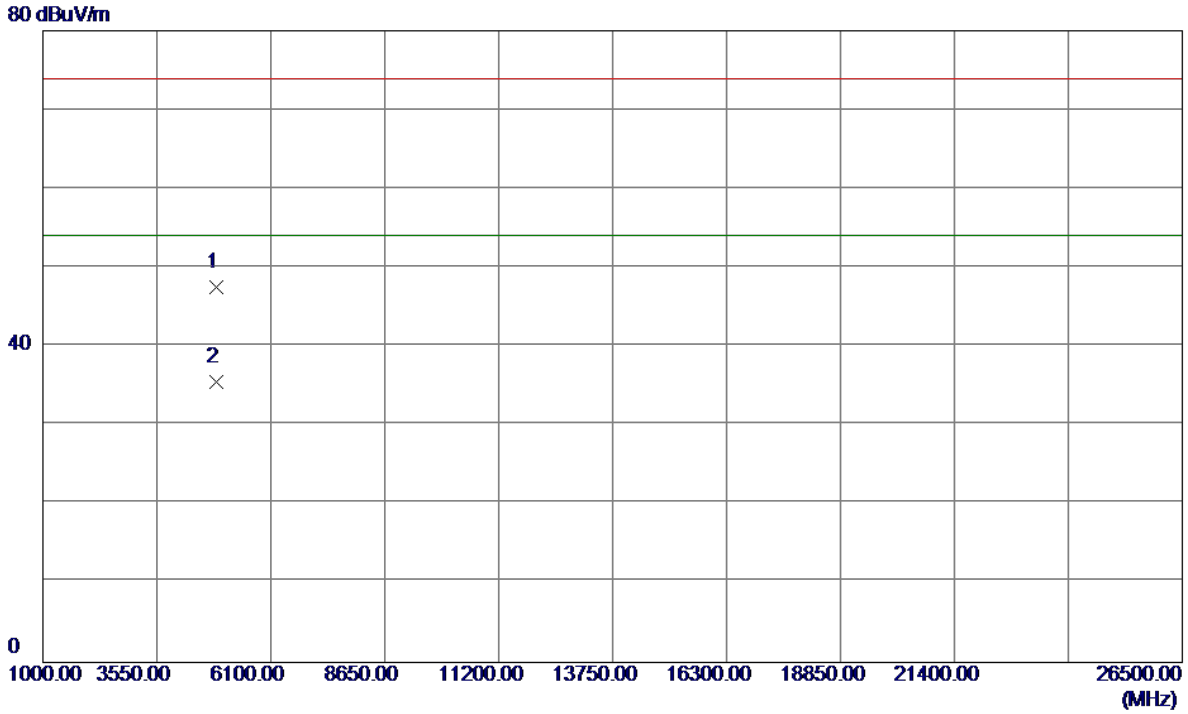
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2438.6000	66.21	33.51	99.72	74.00	25.72	Peak	No Limit
2	2439.0000	58.66	33.51	92.17	54.00	38.17	AVG	No Limit

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

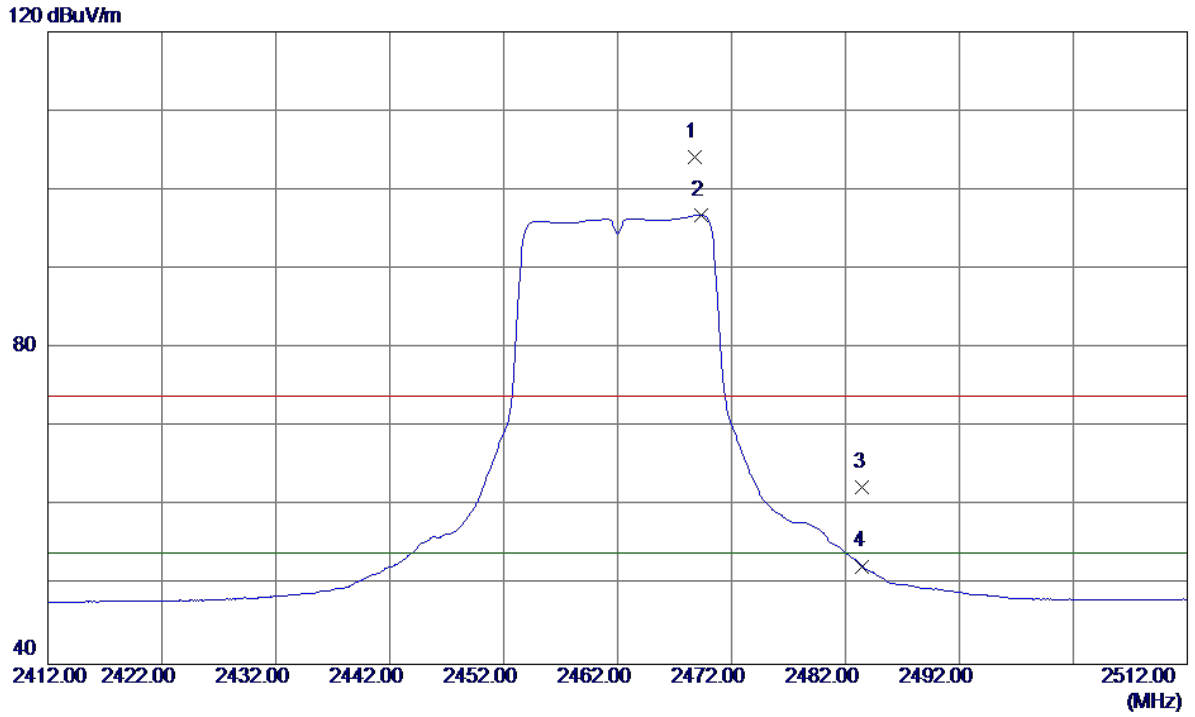
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9450	40.96	6.55	47.51	74.00	-26.49	Peak	
2	4874.0050	29.02	6.55	35.57	54.00	-18.43	AVG	

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

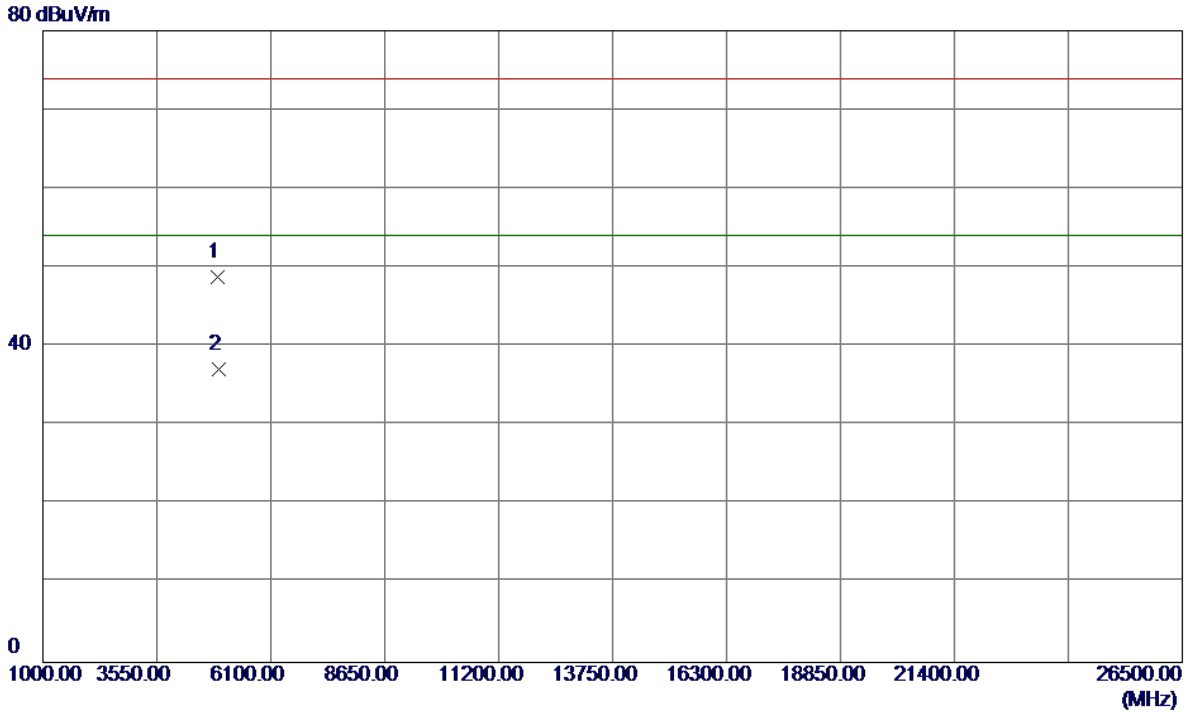
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2468.8000	70.57	33.58	104.15	74.00	30.15	Peak	No Limit
2	2469.3000	63.21	33.58	96.79	54.00	42.79	AVG	No Limit
3	2483.5000	28.78	33.62	62.40	74.00	-11.60	Peak	
4	2483.5000	18.78	33.62	52.40	54.00	-1.60	AVG	

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

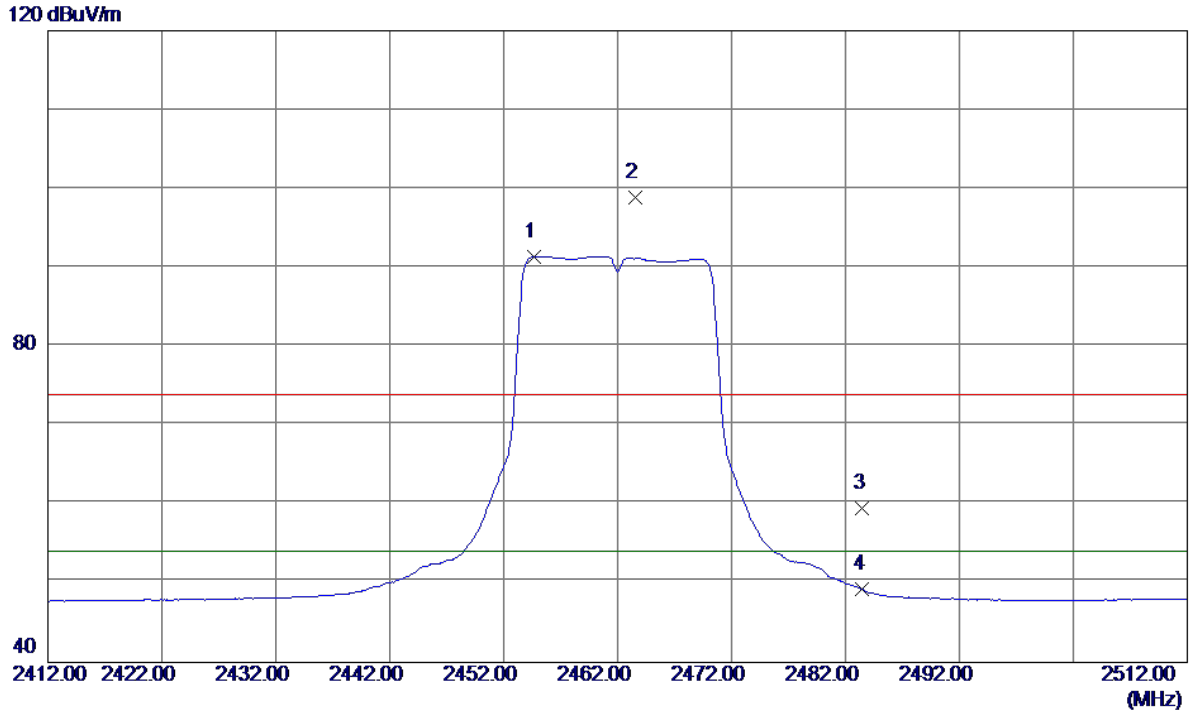
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9950	42.20	6.66	48.86	74.00	-25.14	Peak	
2	4924.2200	30.39	6.66	37.05	54.00	-16.95	AVG	

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

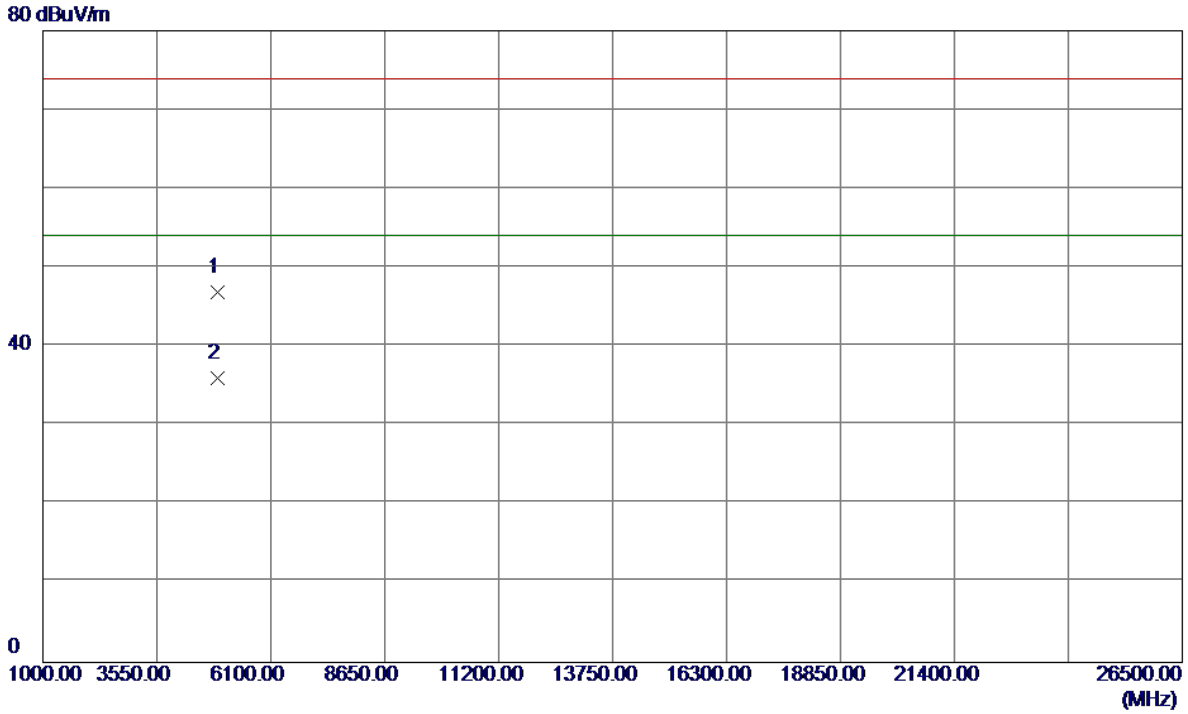
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2454.7000	57.86	33.55	91.41	54.00	37.41	AVG	No Limit
2	2463.6000	65.32	33.57	98.89	74.00	24.89	Peak	No Limit
3	2483.5000	25.91	33.62	59.53	74.00	-14.47	Peak	
4	2483.5000	15.59	33.62	49.21	54.00	-4.79	AVG	

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

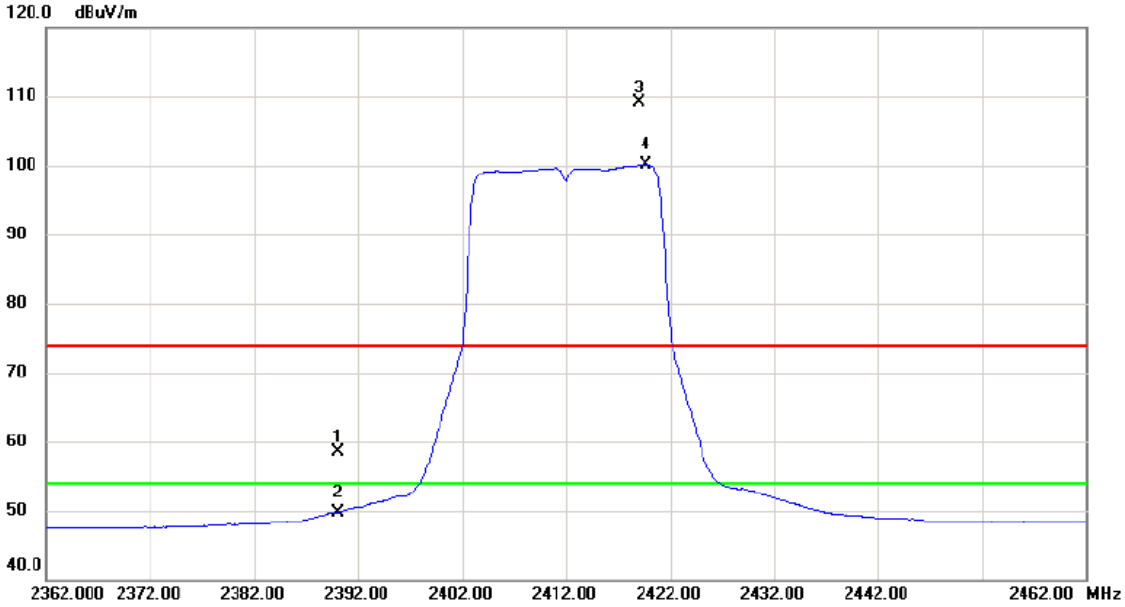
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0099	40.19	6.66	46.85	74.00	-27.15	Peak	
2	4924.0150	29.39	6.66	36.05	54.00	-17.95	AVG	

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

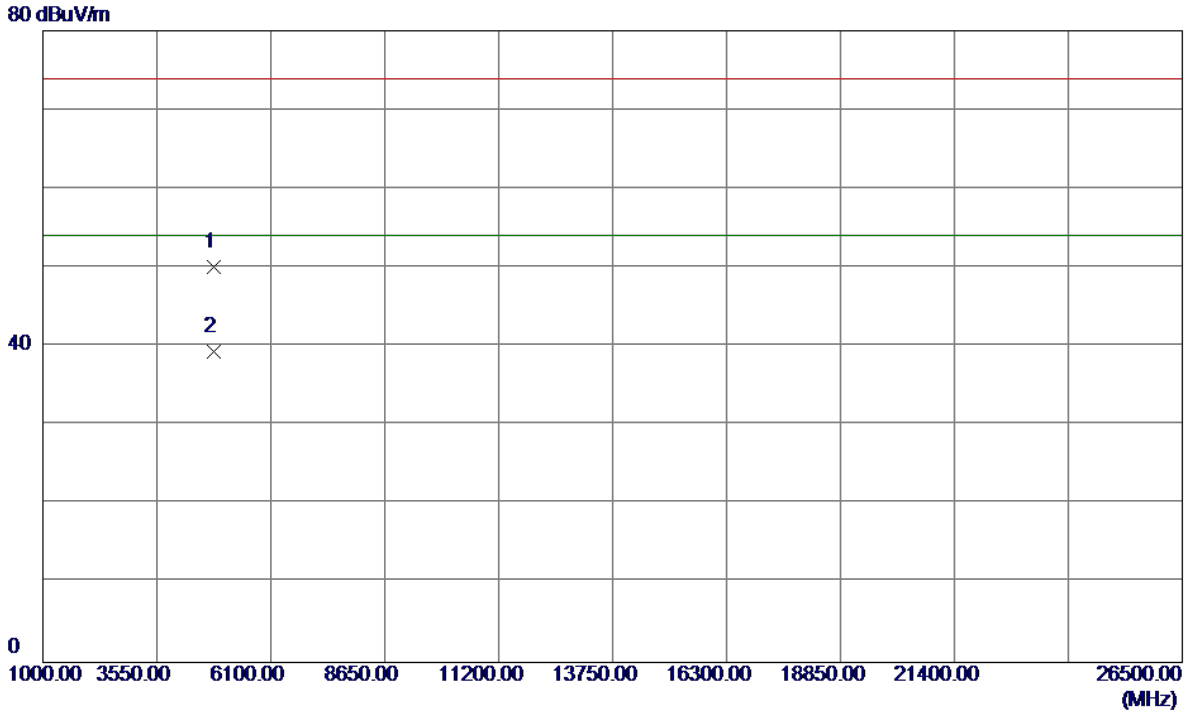
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	25.09	33.38	58.47	74.00	-15.53	peak	
2		2390.000	16.41	33.38	49.79	54.00	-4.21	AVG	
3	X	2419.000	75.69	33.46	109.15	74.00	35.15	peak	No Limit
4	*	2419.700	66.61	33.46	100.07	54.00	46.07	AVG	No Limit

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

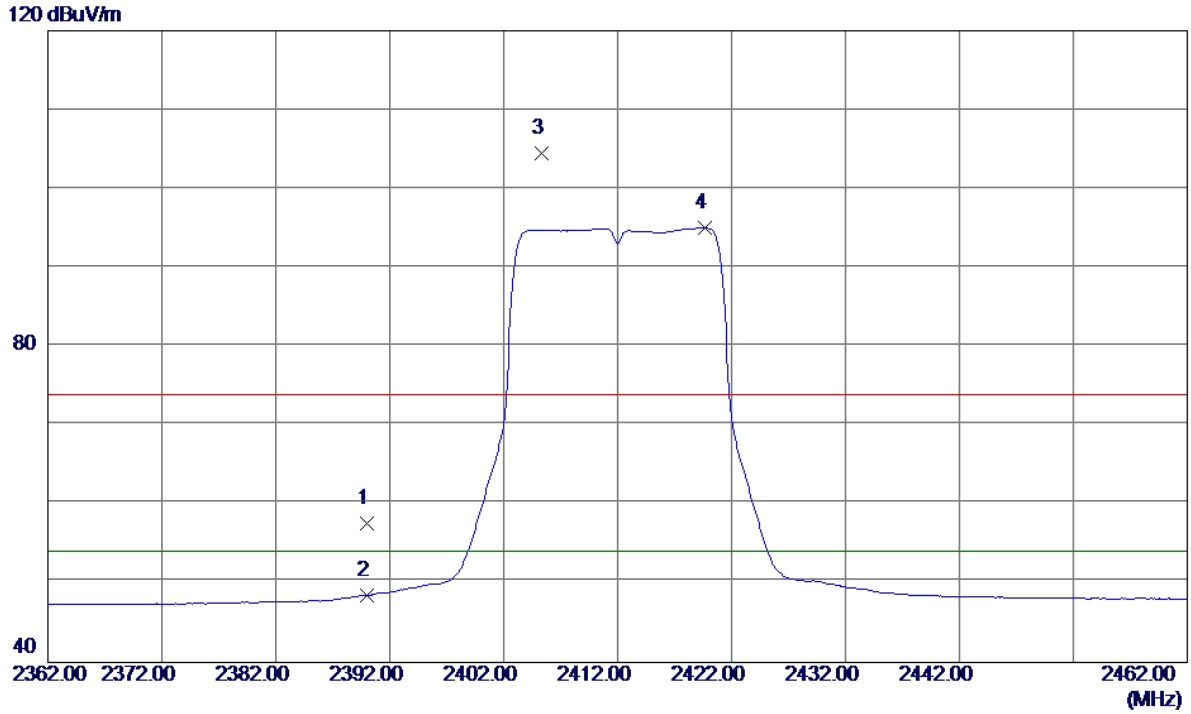
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9900	43.58	6.43	50.01	74.00	-23.99	Peak	
2	4824.0050	32.95	6.43	39.38	54.00	-14.62	AVG	

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

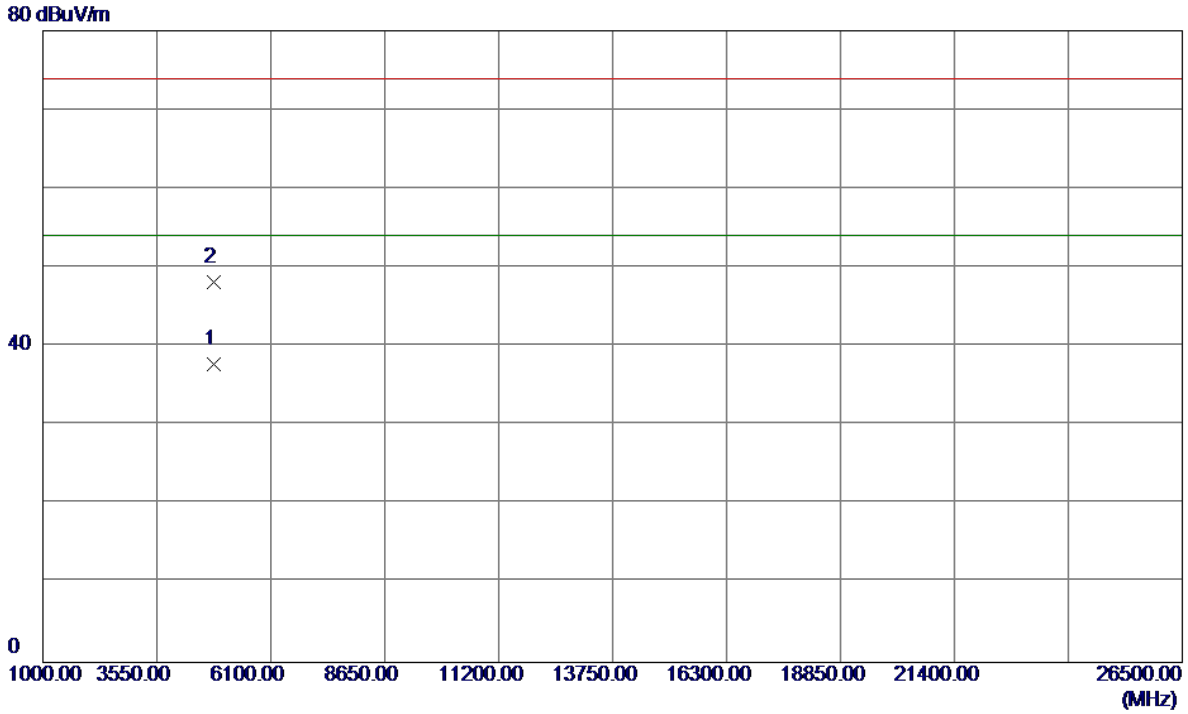
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.20	33.38	57.58	74.00	-16.42	Peak	
2	2390.0000	15.09	33.38	48.47	54.00	-5.53	AVG	
3	2405.3000	71.08	33.42	104.50	74.00	30.50	Peak	No Limit
4	2419.7000	61.54	33.46	95.00	54.00	41.00	AVG	No Limit

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

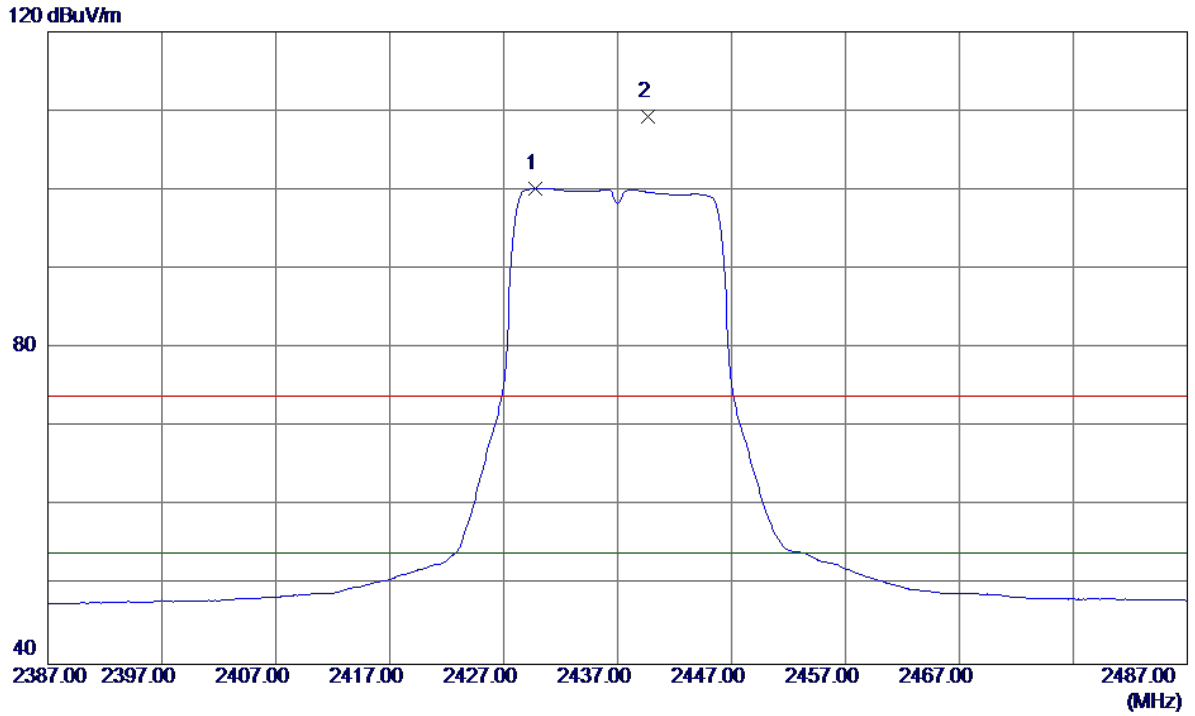
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0000	31.27	6.43	37.70	54.00	-16.30	AVG	
2	4824.0650	41.74	6.43	48.17	74.00	-25.83	Peak	

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

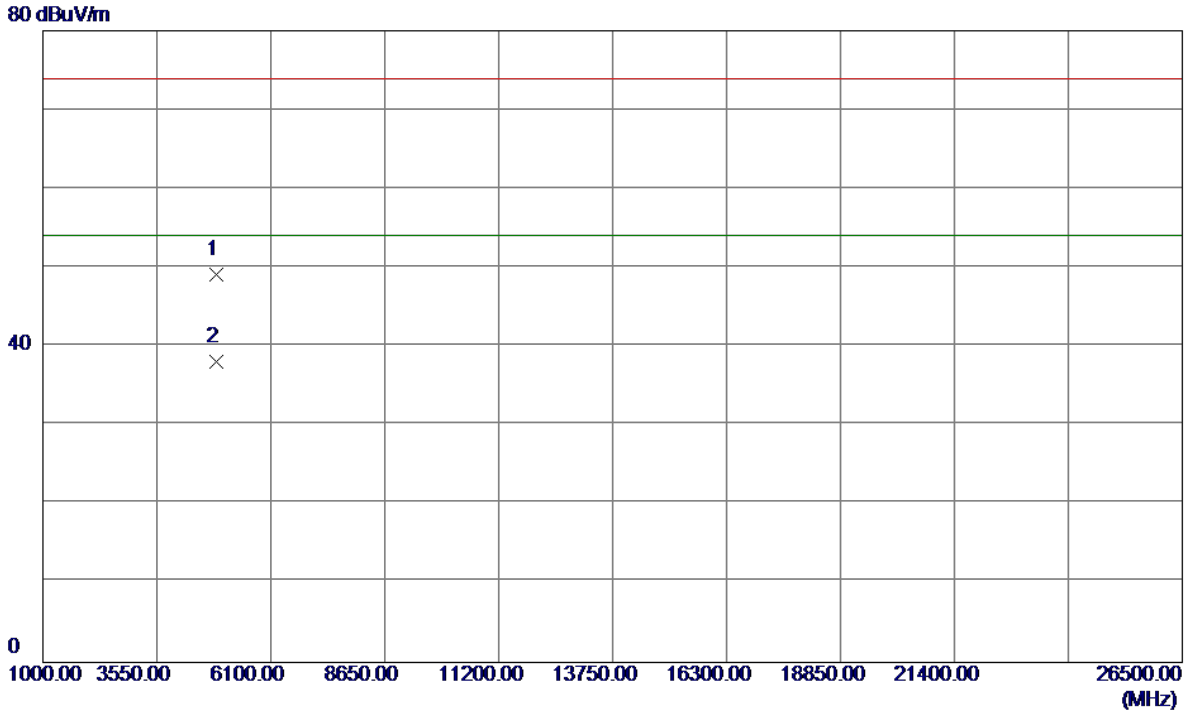
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2429.8000	66.71	33.48	100.19	54.00	46.19	AVG	No Limit
2	2439.7000	75.84	33.51	109.35	74.00	35.35	Peak	No Limit

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

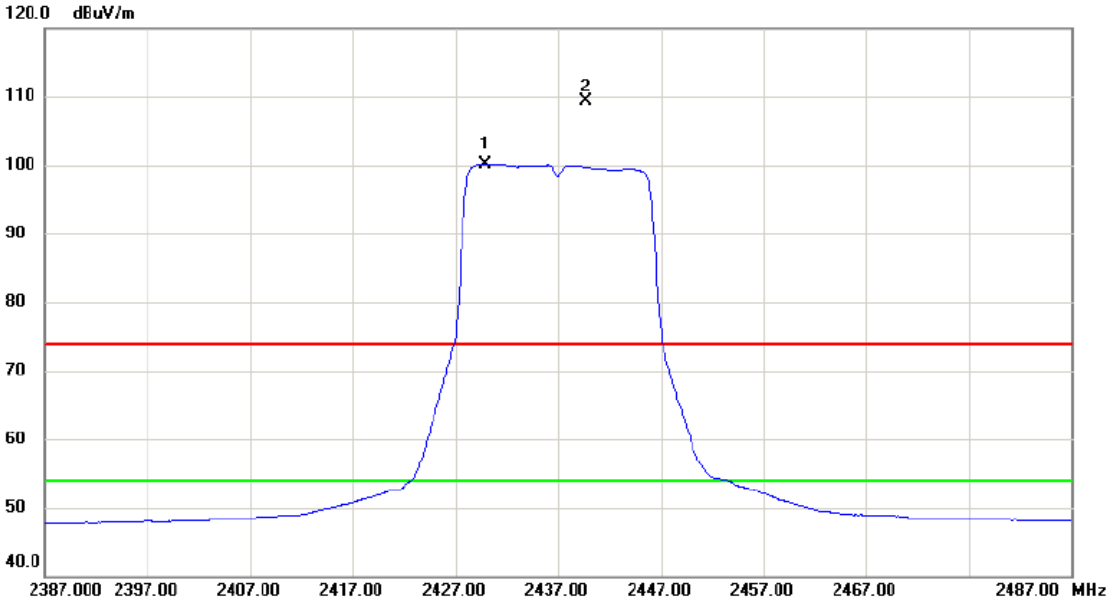
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9000	42.62	6.55	49.17	74.00	-24.83	Peak	
2	4873.9850	31.50	6.55	38.05	54.00	-15.95	AVG	

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

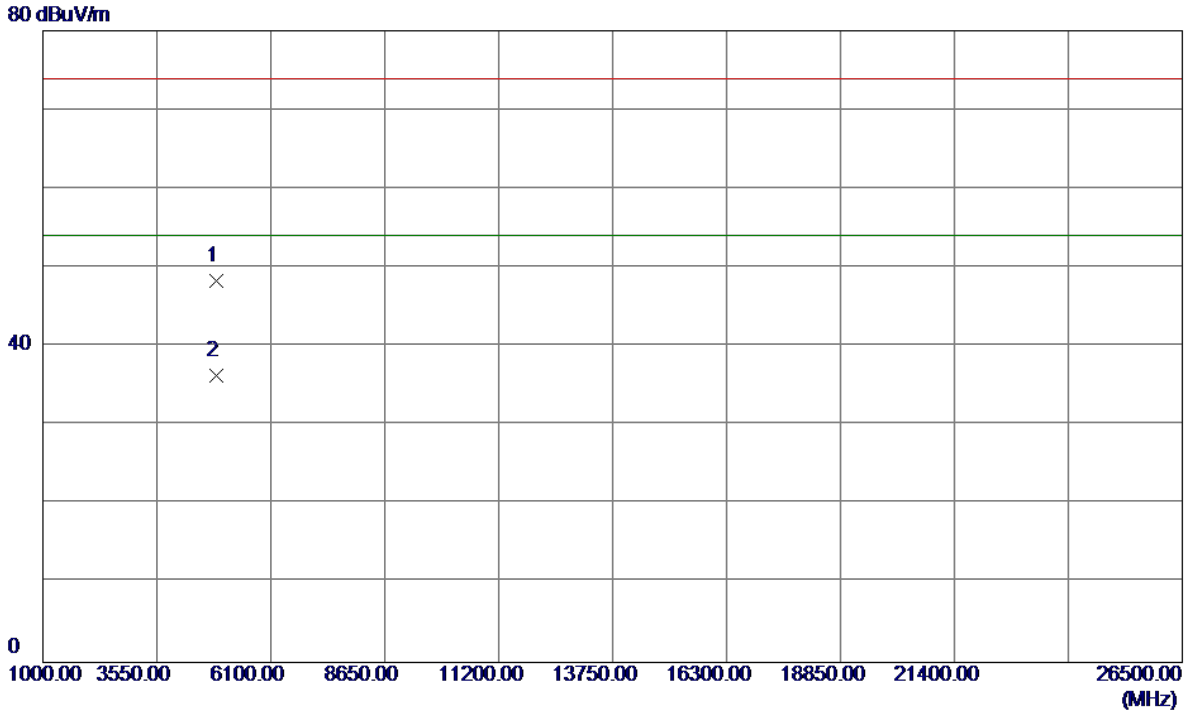
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2429.800	66.71	33.48	100.19	54.00	46.19	AVG	No Limit
2	X	2439.700	75.84	33.51	109.35	74.00	35.35	peak	No Limit

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

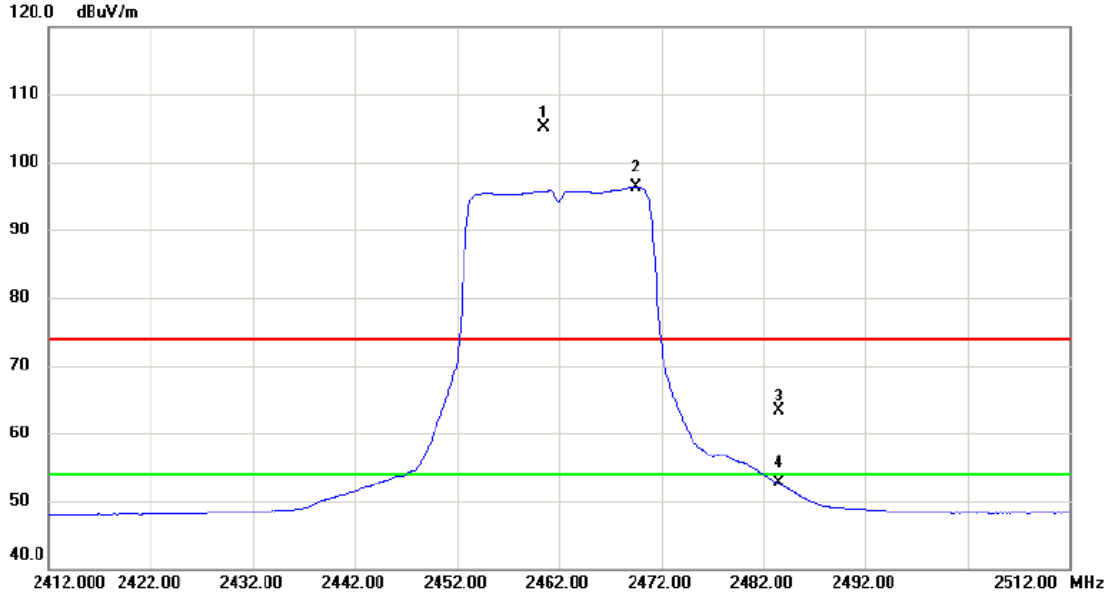
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8750	41.77	6.55	48.32	74.00	-25.68	Peak	
2	4873.9550	29.76	6.55	36.31	54.00	-17.69	AVG	

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

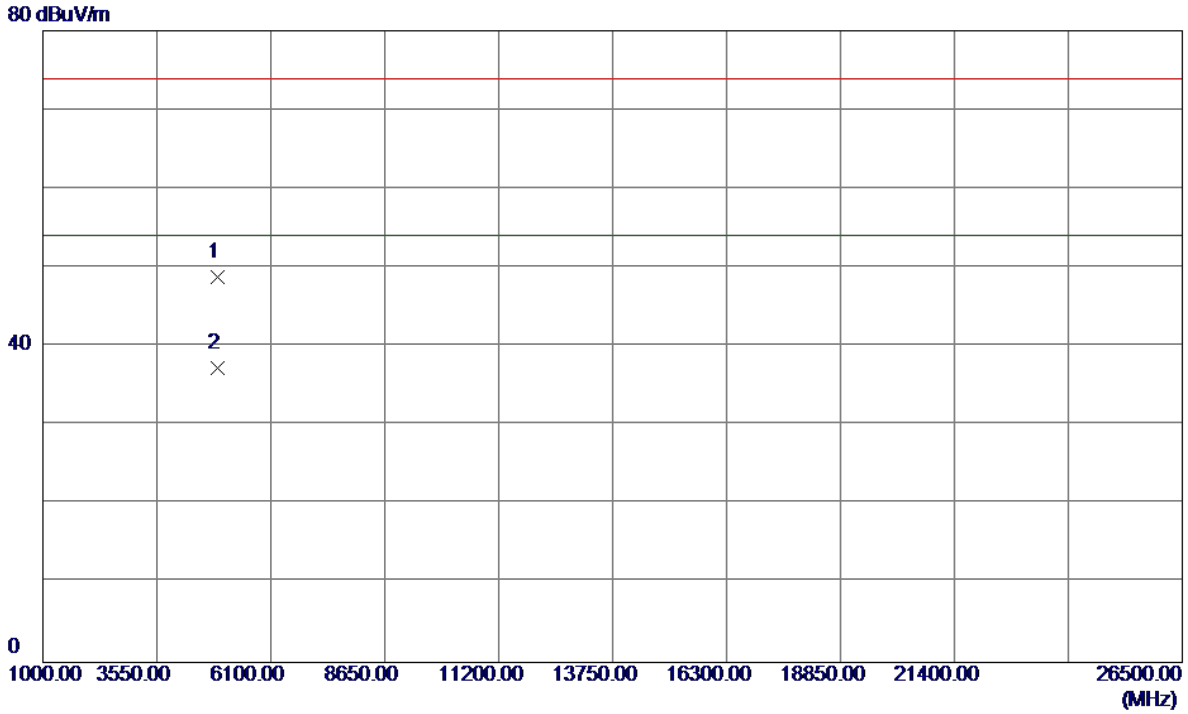
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2460.500	71.46	33.56	105.02	74.00	31.02	peak	No Limit
2	*	2469.600	62.71	33.59	96.30	54.00	42.30	AVG	No Limit
3		2483.500	29.76	33.62	63.38	74.00	-10.62	peak	
4		2483.500	18.99	33.62	52.61	54.00	-1.39	AVG	

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

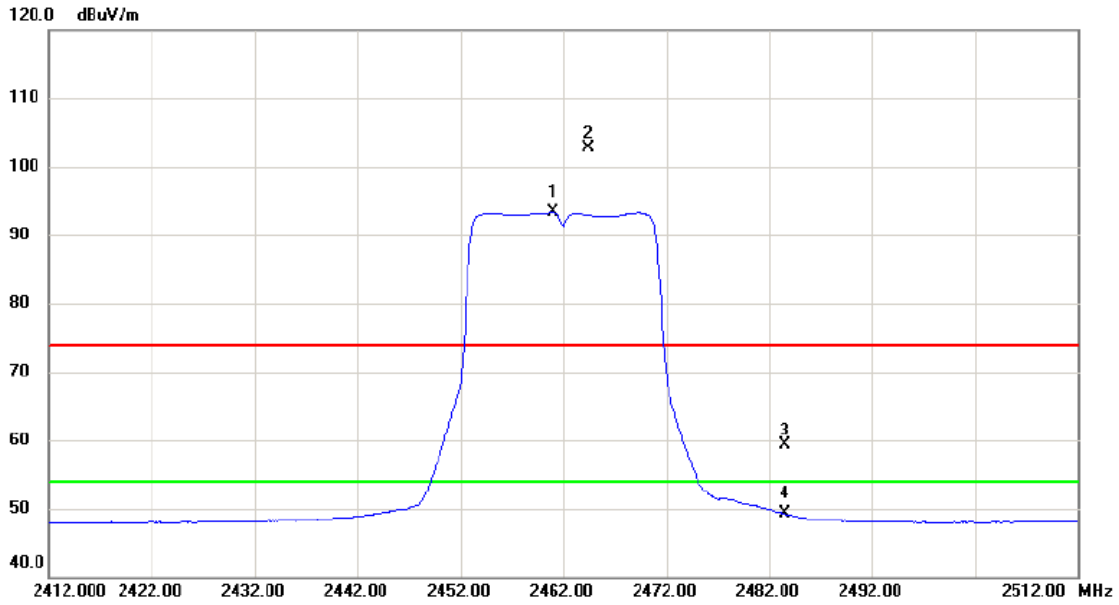
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9600	42.13	6.66	48.79	74.00	-25.21	Peak	
2	4923.9850	30.66	6.66	37.32	54.00	-16.68	AVG	

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

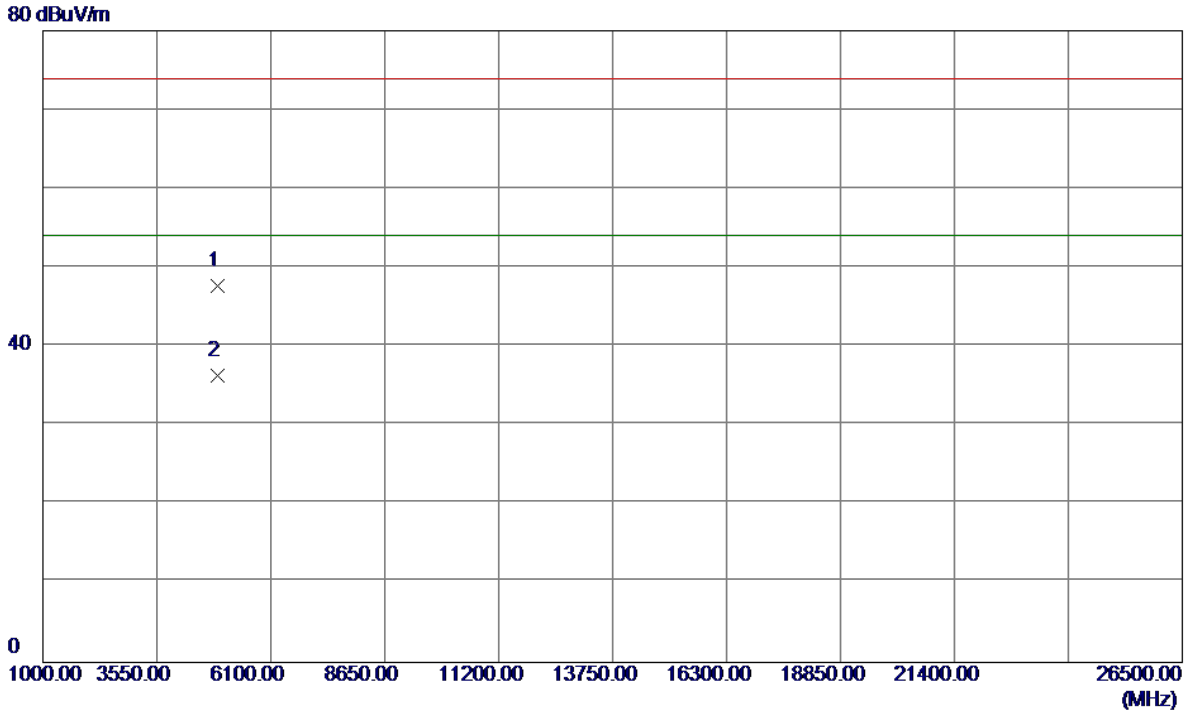
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2461.000	59.71	33.56	93.27	54.00	39.27	AVG	No Limit
2	X	2464.500	69.14	33.57	102.71	74.00	28.71	peak	No Limit
3		2483.500	25.71	33.62	59.33	74.00	-14.67	peak	
4		2483.500	15.63	33.62	49.25	54.00	-4.75	AVG	

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

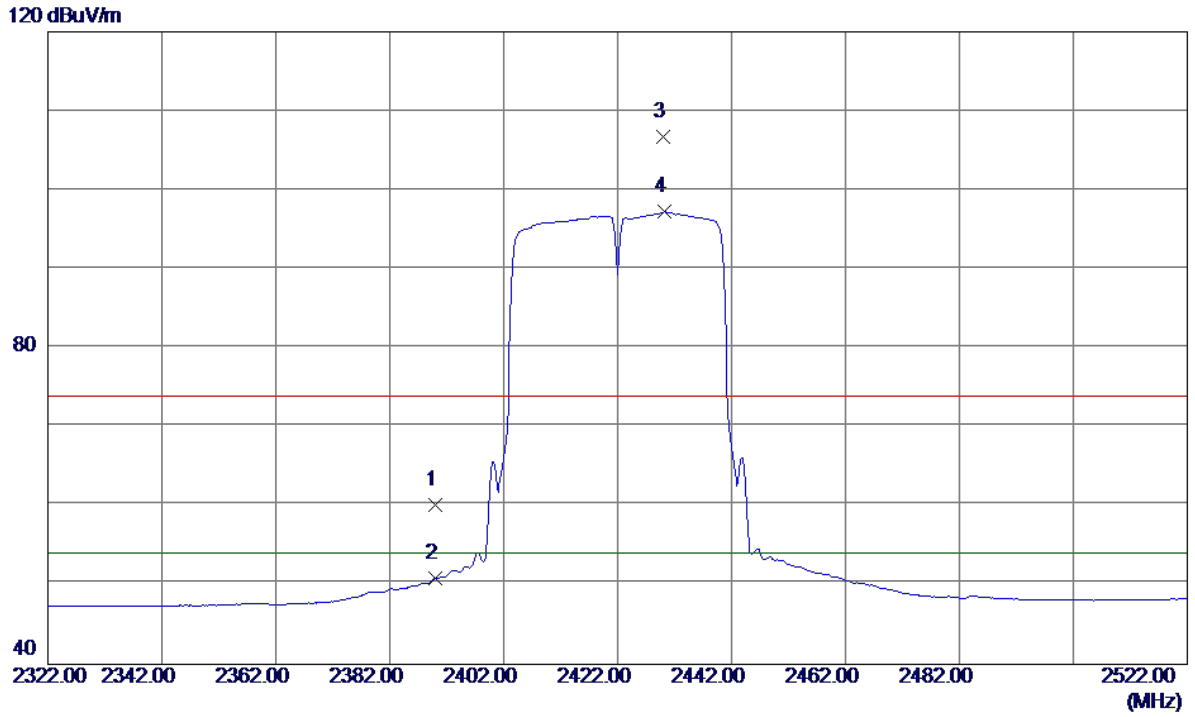
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9900	41.10	6.66	47.76	74.00	-26.24	Peak	
2	4924.0000	29.71	6.66	36.37	54.00	-17.63	AVG	

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

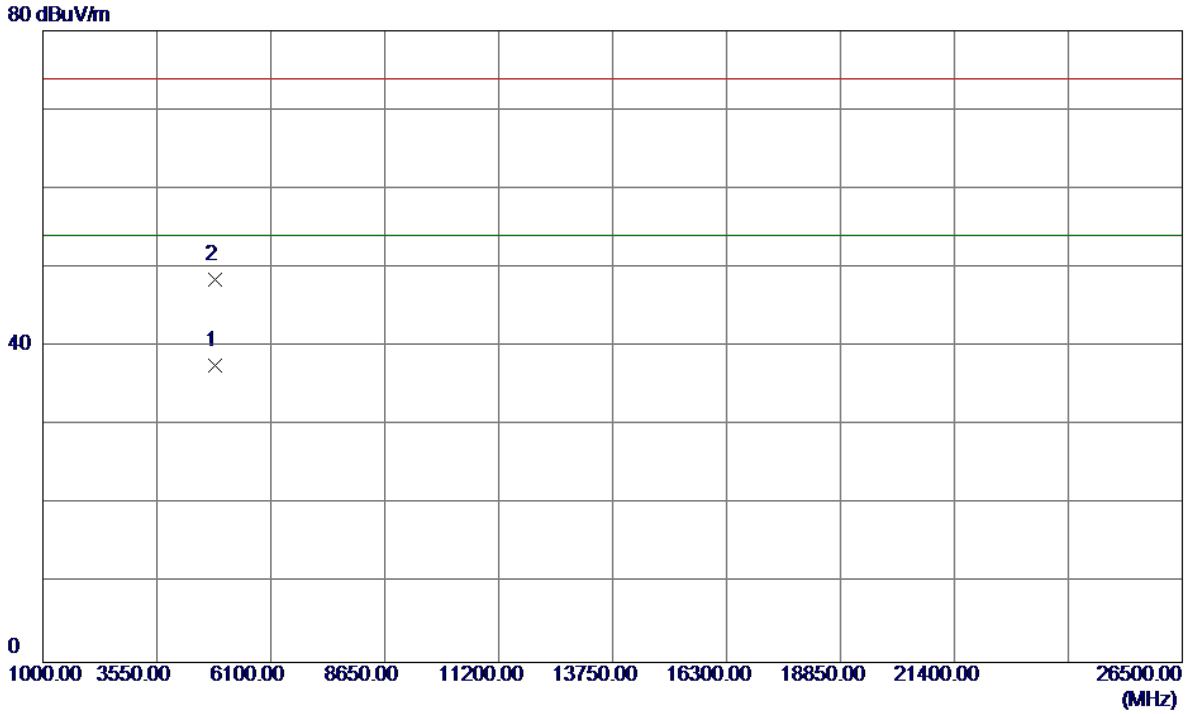
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26.77	33.38	60.15	74.00	-13.85	Peak	
2	2390.0000	17.47	33.38	50.85	54.00	-3.15	AVG	
3	2430.0000	73.27	33.48	106.75	74.00	32.75	Peak	No Limit
4	2430.2000	63.73	33.48	97.21	54.00	43.21	AVG	No Limit

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

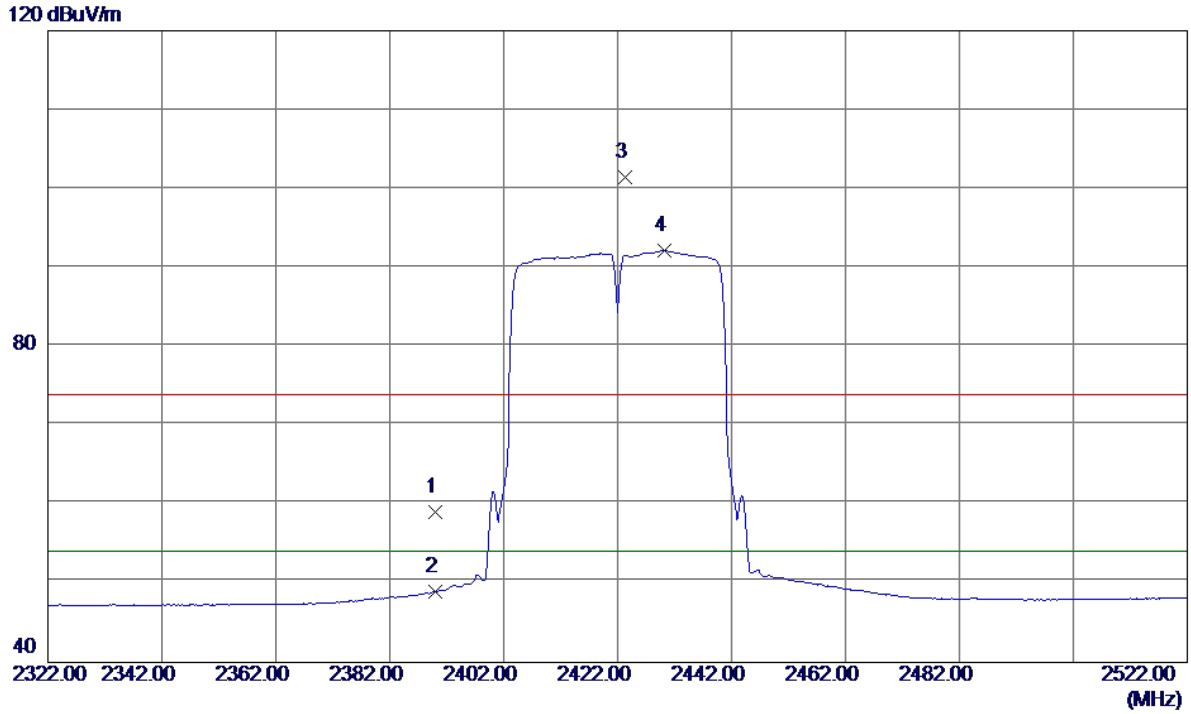
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.9950	31.13	6.48	37.61	54.00	-16.39	AVG	
2	4844.0550	42.01	6.48	48.49	74.00	-25.51	Peak	

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

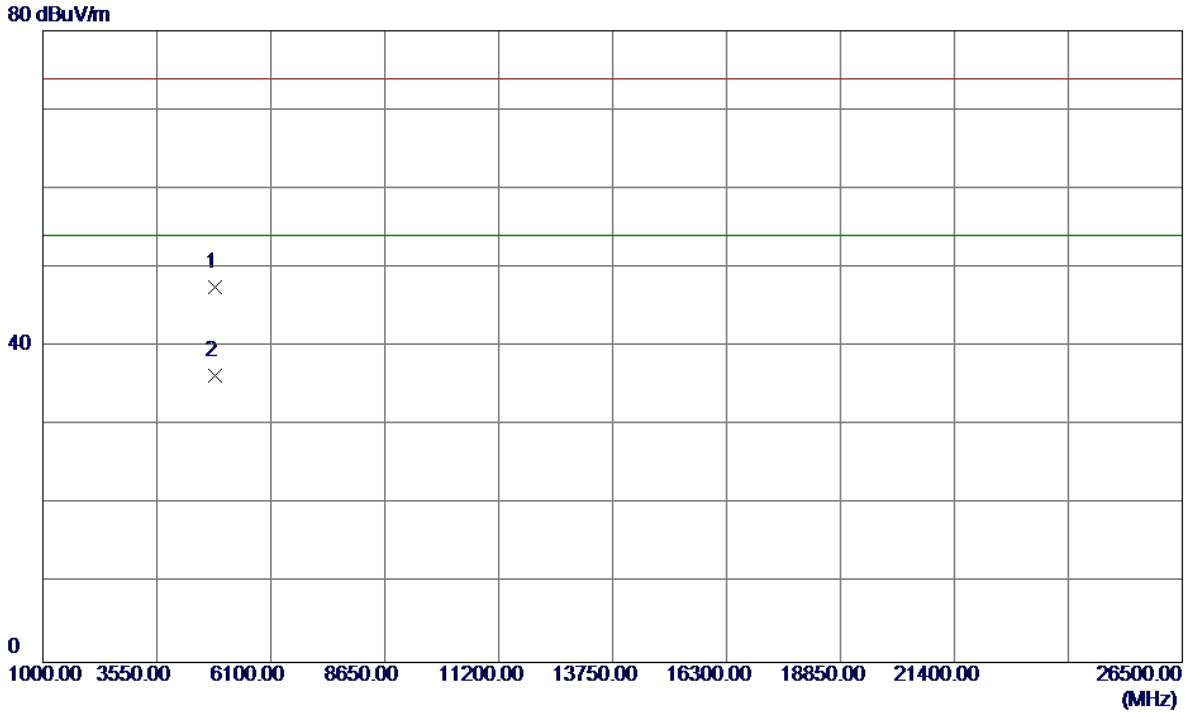
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25.59	33.38	58.97	74.00	-15.03	Peak	
2	2390.0000	15.63	33.38	49.01	54.00	-4.99	AVG	
3	2423.4000	67.94	33.47	101.41	74.00	27.41	Peak	No Limit
4	2430.2000	58.71	33.48	92.19	54.00	38.19	AVG	No Limit

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

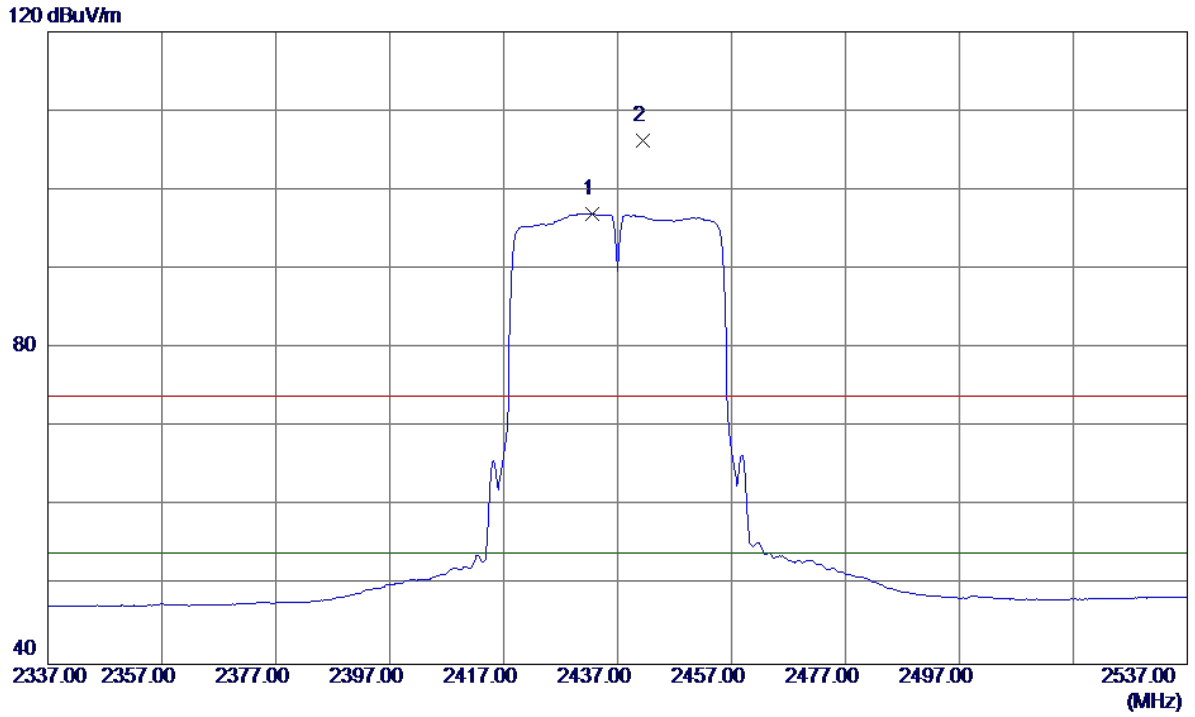
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.9250	41.11	6.48	47.59	74.00	-26.41	Peak	
2	4843.9550	29.77	6.48	36.25	54.00	-17.75	AVG	

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

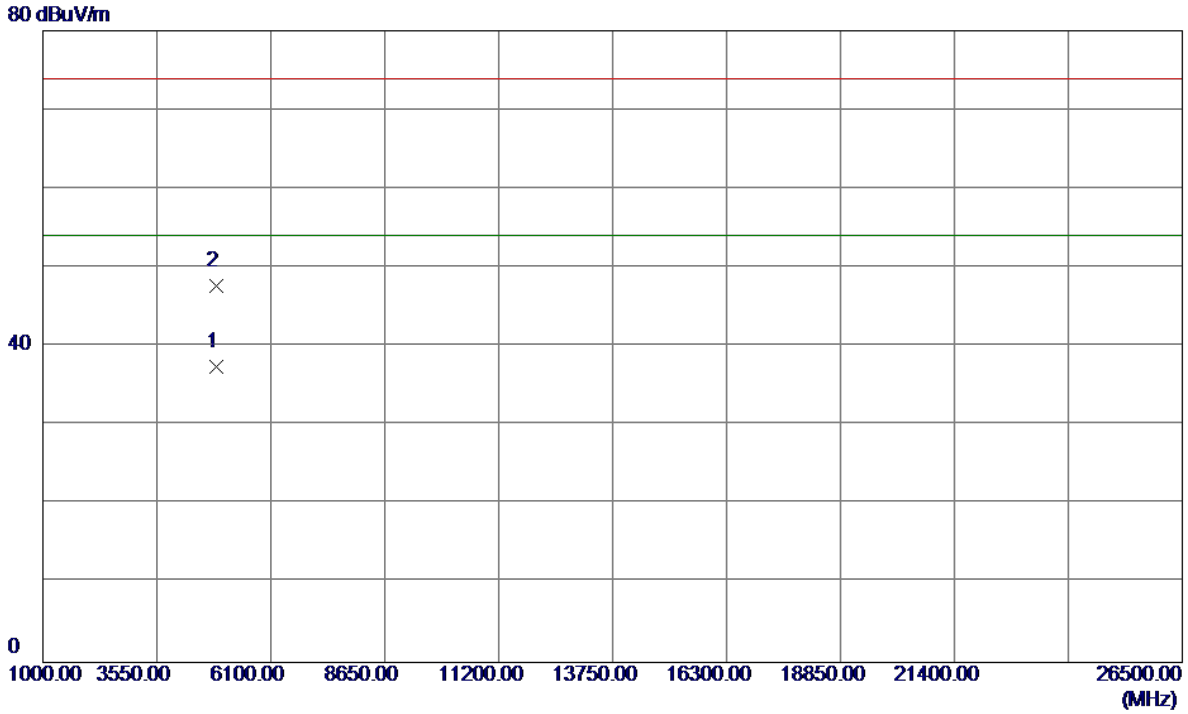
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2432.6000	63.51	33.49	97.00	54.00	43.00	AVG	No Limit
2	2441.4000	72.67	33.51	106.18	74.00	32.18	Peak	No Limit

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

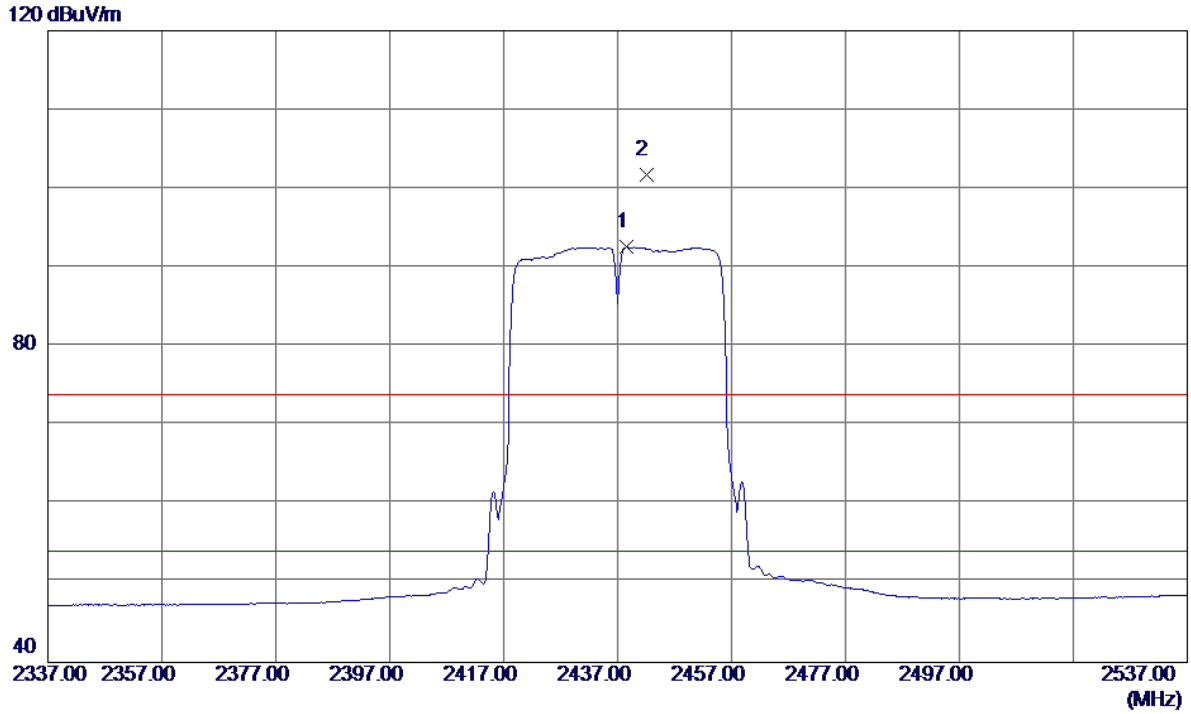
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9700	30.87	6.55	37.42	54.00	-16.58	AVG	
2	4874.0550	41.08	6.55	47.63	74.00	-26.37	Peak	

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

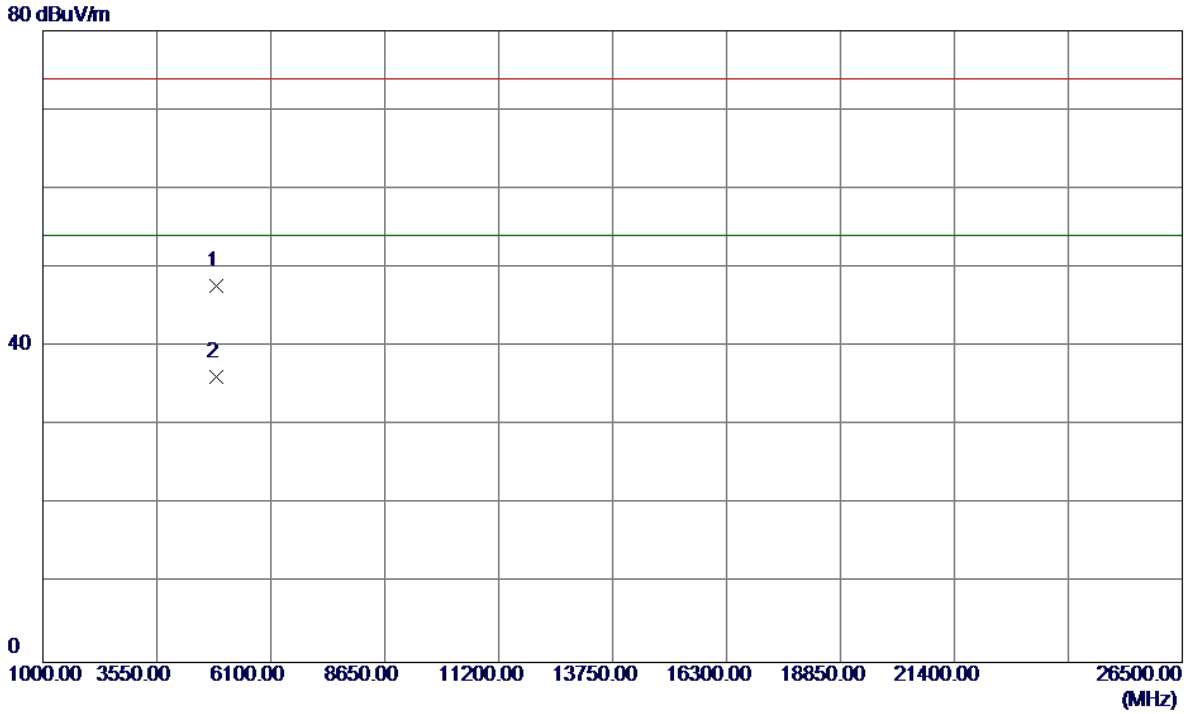
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2438.6000	59.06	33.51	92.57	54.00	38.57	AVG	No Limit
2	2442.0000	68.17	33.51	101.68	74.00	27.68	Peak	No Limit

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

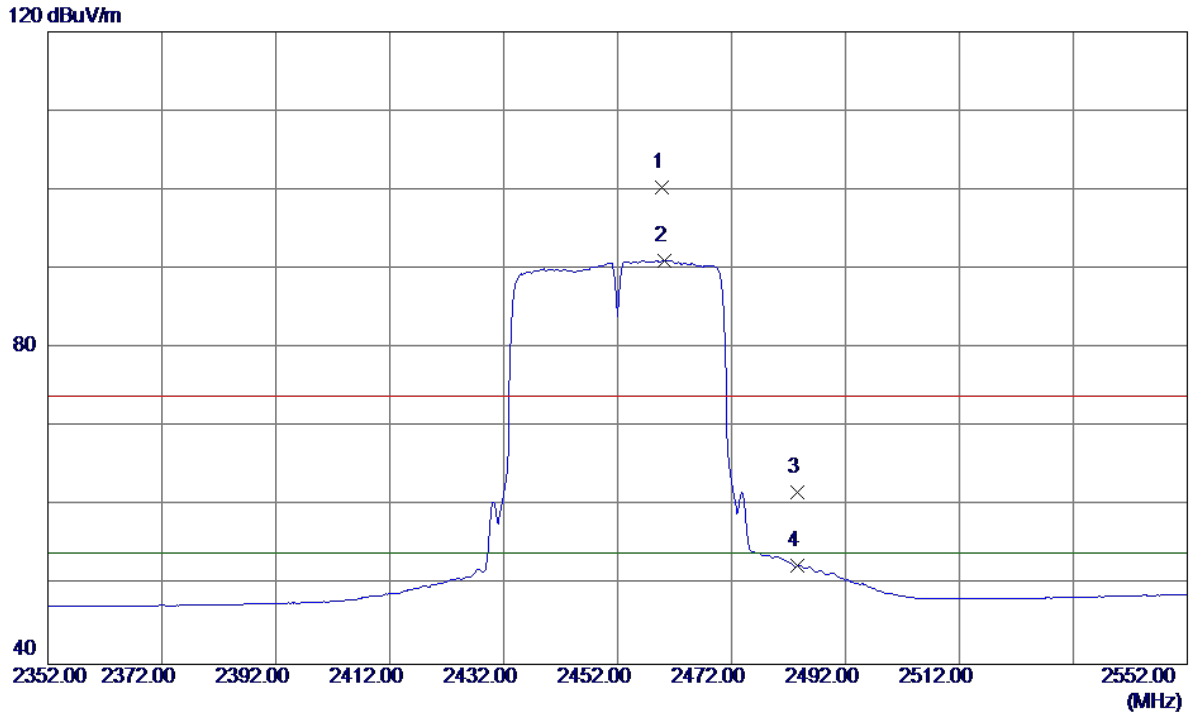
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9400	41.20	6.55	47.75	74.00	-26.25	Peak	
2	4873.9600	29.65	6.55	36.20	54.00	-17.80	AVG	

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

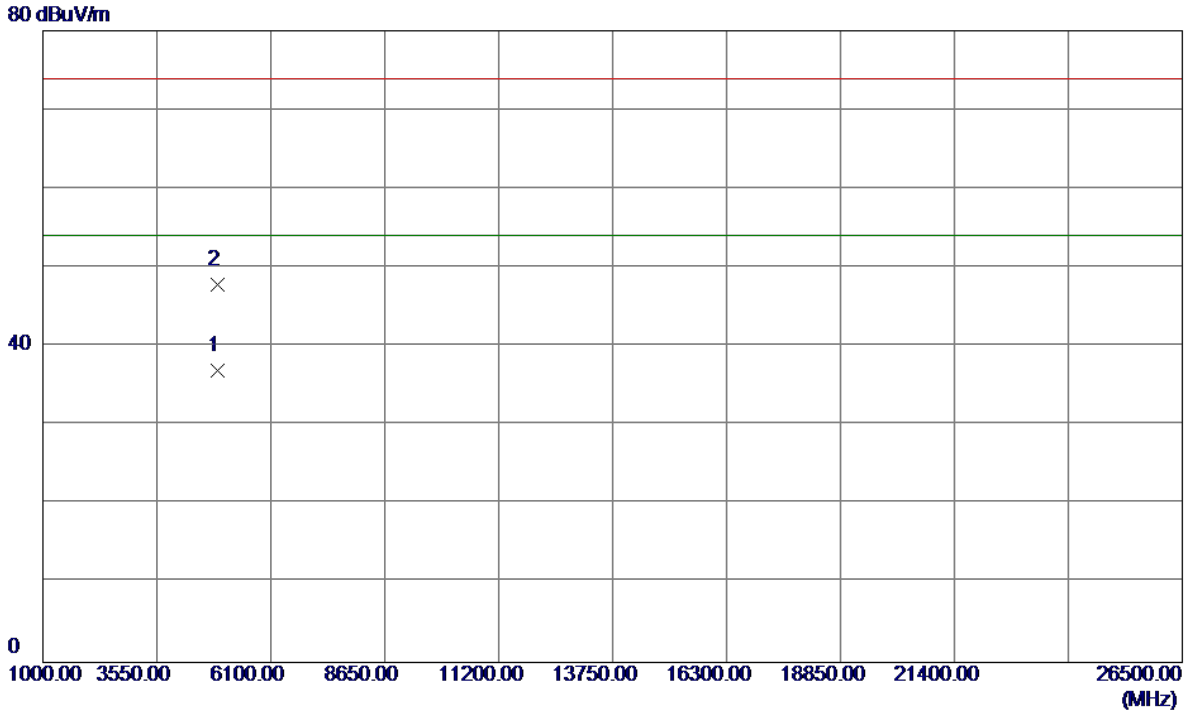
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.8000	66.76	33.56	100.32	74.00	26.32	Peak	No Limit
2	2460.2000	57.54	33.56	91.10	54.00	37.10	AVG	No Limit
3	2483.5000	28.08	33.62	61.70	74.00	-12.30	Peak	
4	2483.5000	18.83	33.62	52.45	54.00	-1.55	AVG	

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

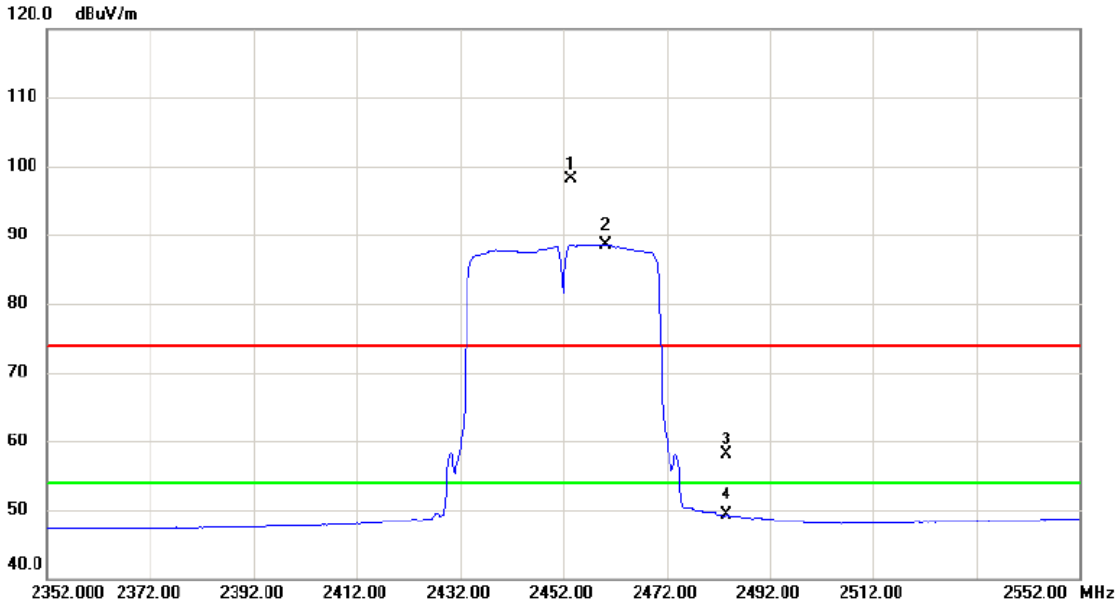
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4903.9900	30.33	6.61	36.94	54.00	-17.06	AVG	
2	4904.0150	41.21	6.61	47.82	74.00	-26.18	Peak	

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

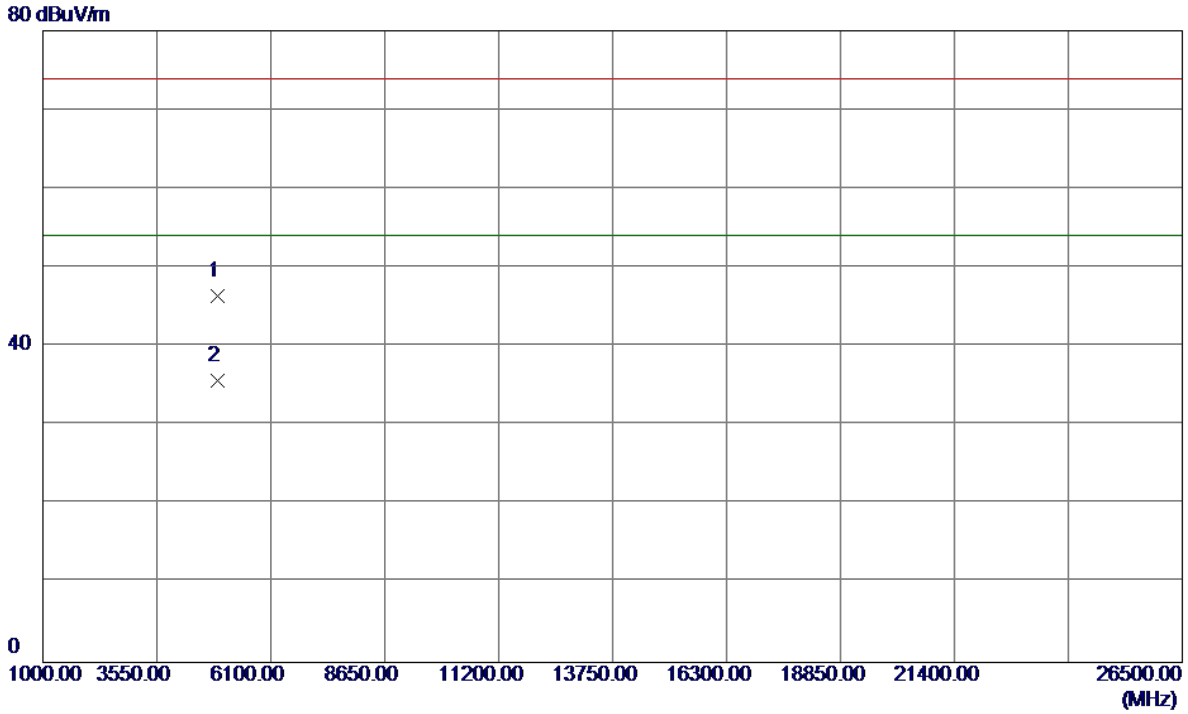
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2453.400	64.59	33.54	98.13	74.00	24.13	peak	No Limit
2	*	2460.200	55.02	33.56	88.58	54.00	34.58	AVG	No Limit
3		2483.500	24.50	33.62	58.12	74.00	-15.88	peak	
4		2483.500	15.59	33.62	49.21	54.00	-4.79	AVG	

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

Horizontal



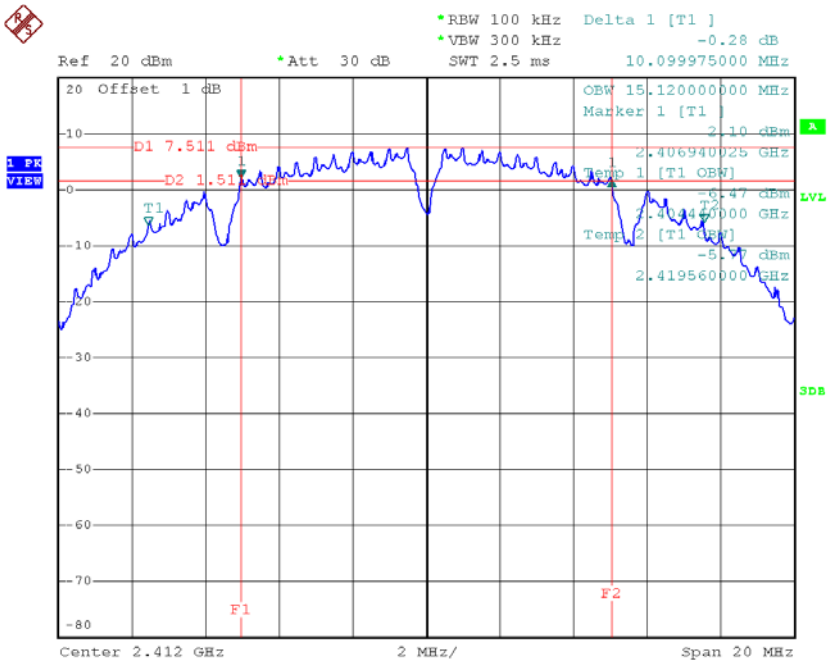
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4903.9650	39.72	6.61	46.33	74.00	-27.67	Peak	
2	4903.9650	29.04	6.61	35.65	54.00	-18.35	AVG	

ATTACHMENT E - BANDWIDTH

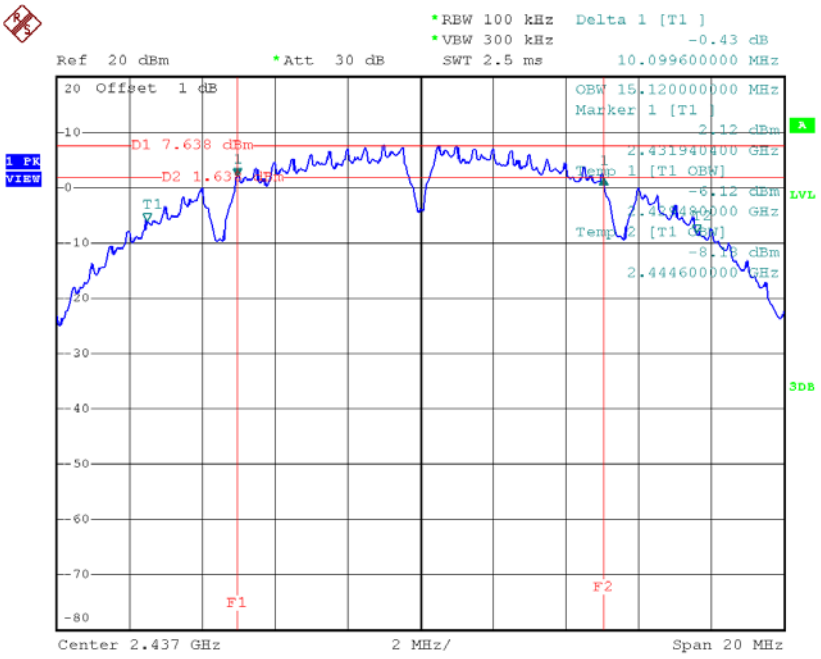
Test Mode : TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.10	15.12	500	Complies
2437	10.10	15.12	500	Complies
2462	10.10	15.04	500	Complies

TX CH01

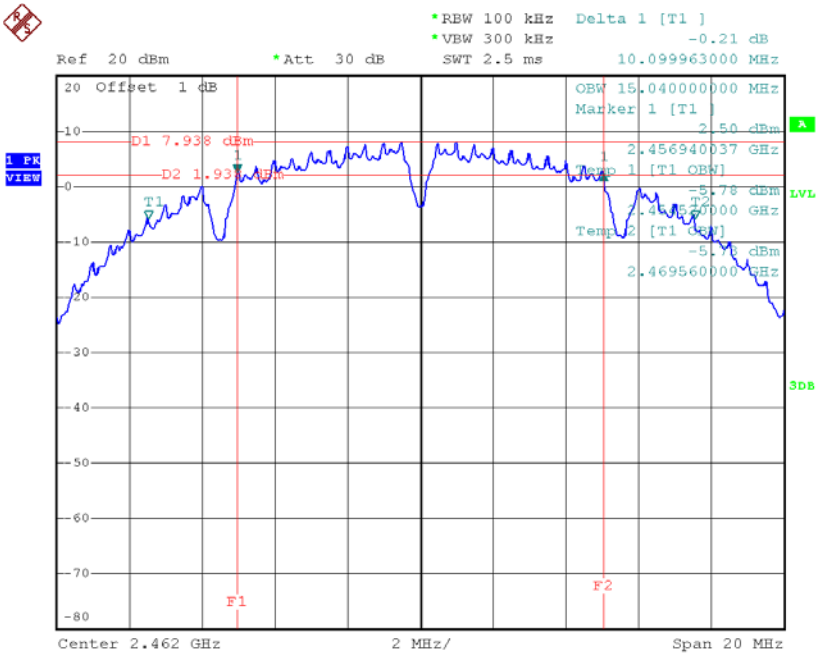


TX CH06



Date: 27.AUG.2015 11:38:08

TX CH11

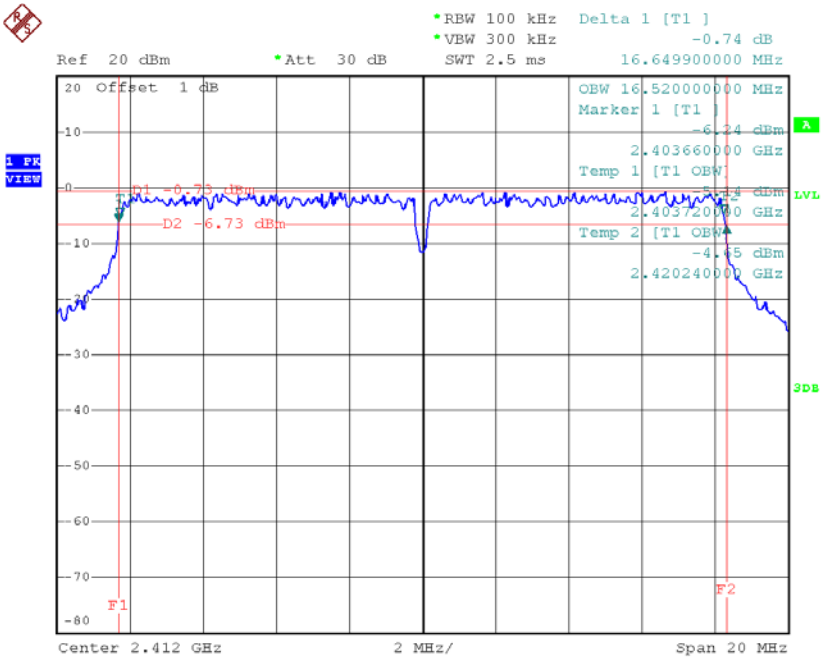


Date: 27.AUG.2015 11:39:23

Test Mode: TX G Mode_CH01/06/11

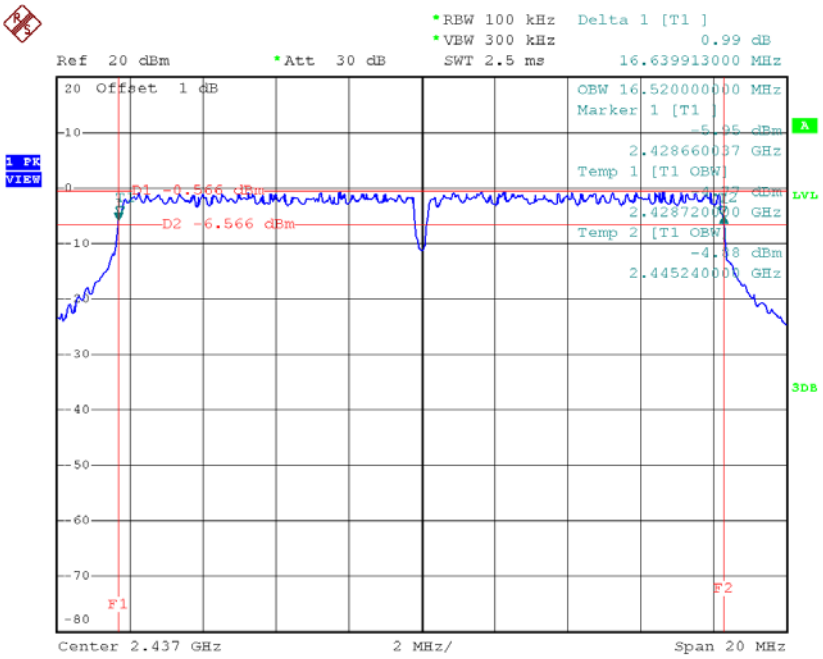
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.65	16.52	500	Complies
2437	16.64	16.52	500	Complies
2462	16.64	16.52	500	Complies

TX CH01



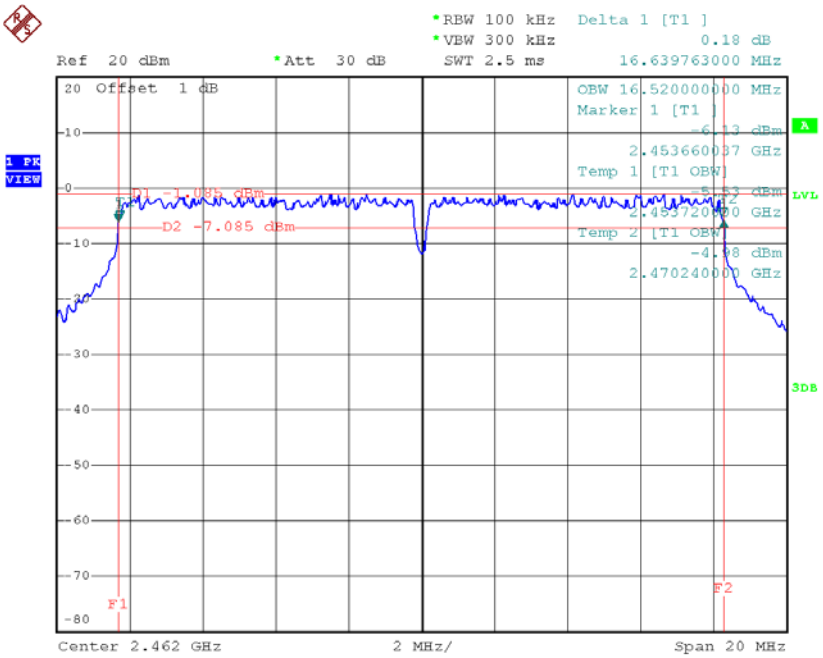
Date: 27.AUG.2015 11:40:38

TX CH06



Date: 27.AUG.2015 11:41:45

TX CH11

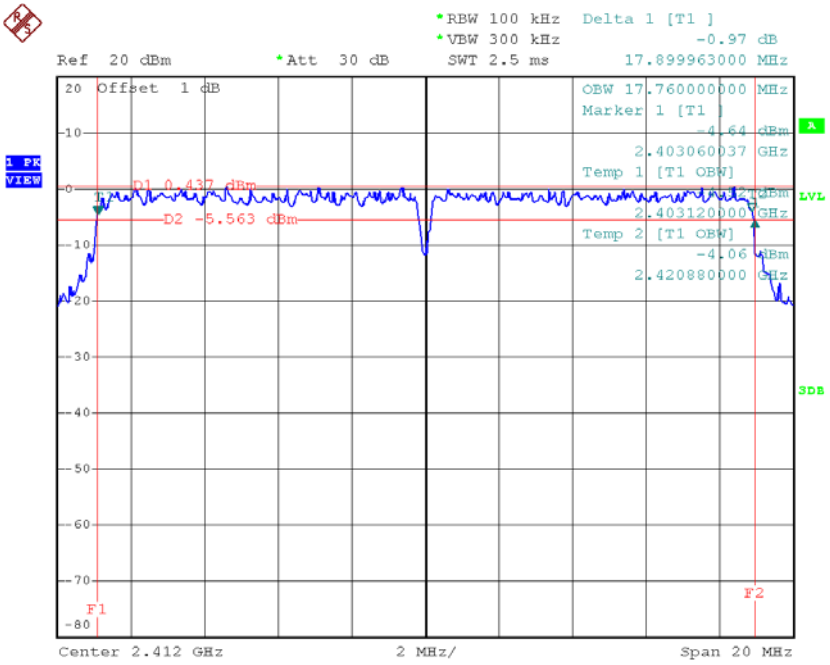


Date: 27.AUG.2015 11:42:55

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

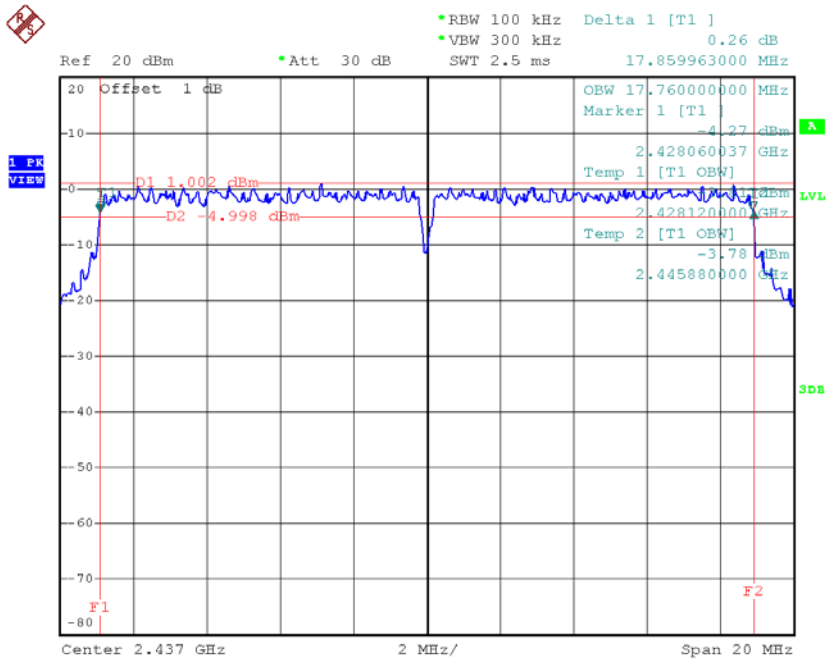
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.90	17.76	500	Complies
2437	17.86	17.76	500	Complies
2462	17.86	17.76	500	Complies

TX CH01



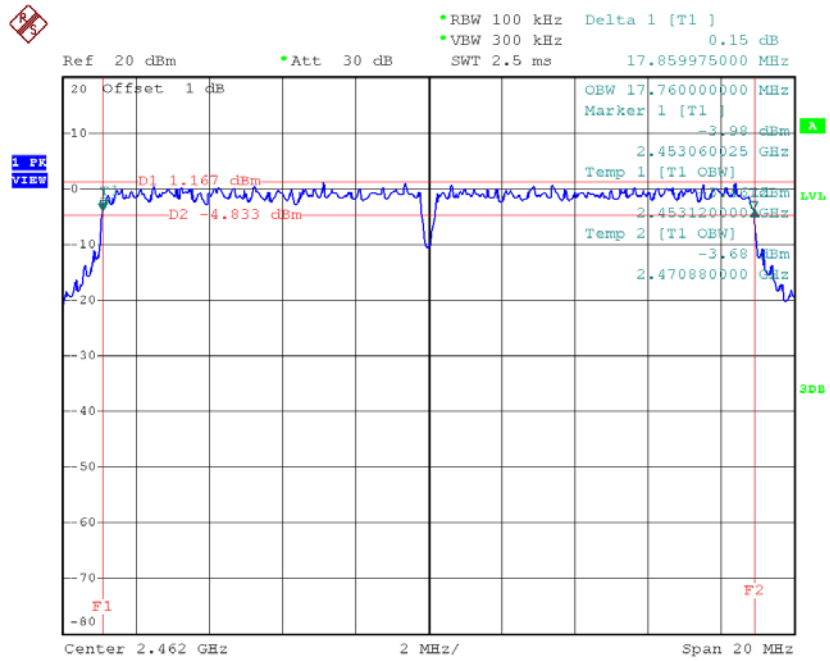
Date: 27.AUG.2015 11:44:55

TX CH06



Date: 27.AUG.2015 11:45:17

TX CH11

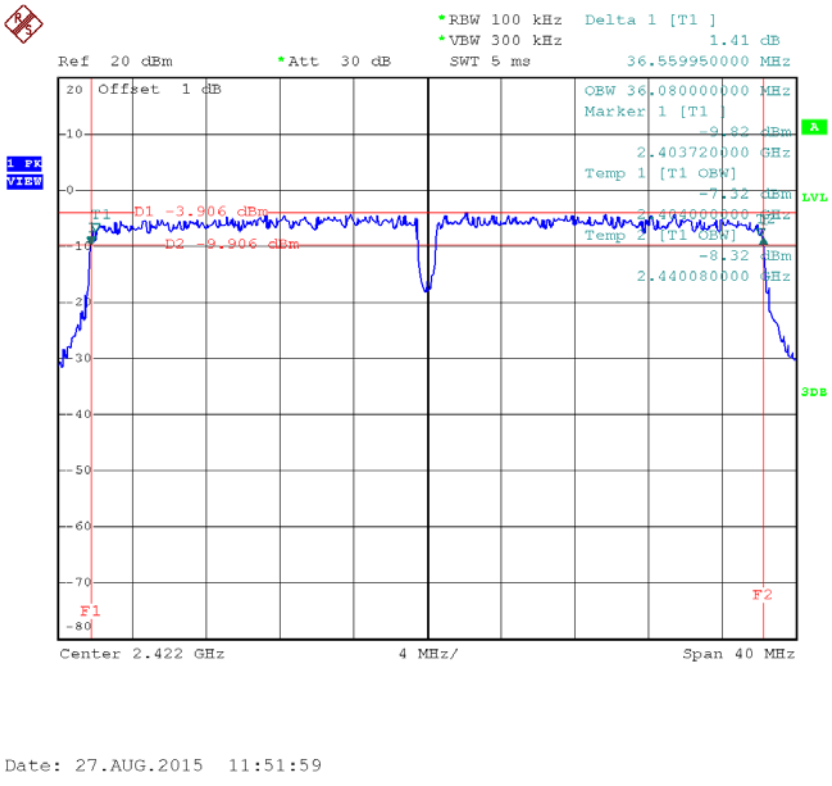


Date: 27.AUG.2015 11:45:41

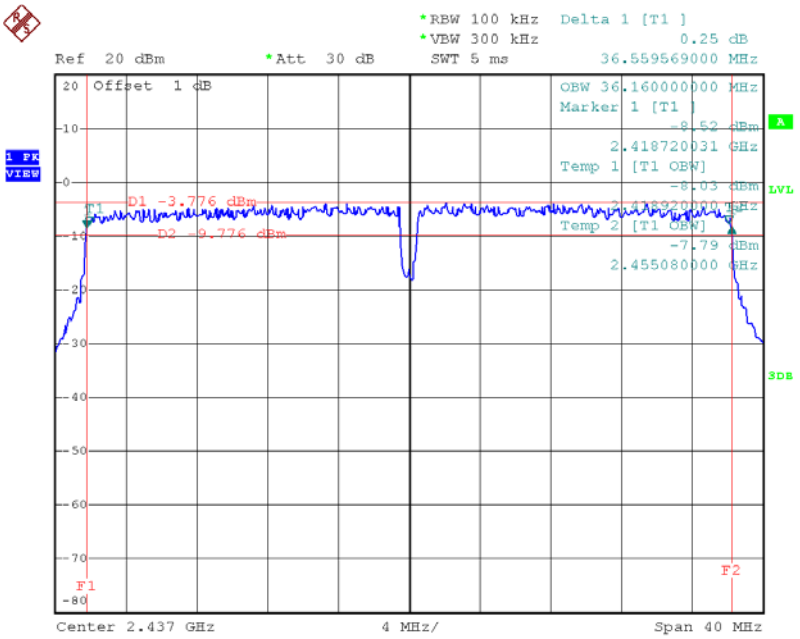
Test Mode : TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.56	36.08	500	Complies
2437	36.56	36.16	500	Complies
2452	36.57	36.16	500	Complies

TX CH03

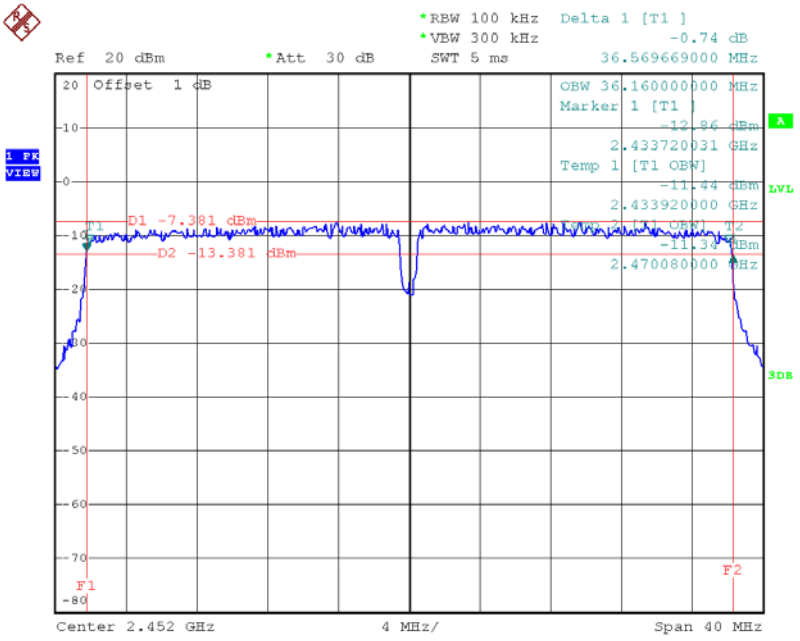


TX CH06



Date: 27.AUG.2015 11:52:27

TX CH09



Date: 27.AUG.2015 11:53:12

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	20.59	0.11	30.00	1.00	Complies
2437	20.39	0.11	30.00	1.00	Complies
2462	20.32	0.11	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	20.73	0.12	30.00	1.00	Complies
2437	20.63	0.12	30.00	1.00	Complies
2462	20.02	0.10	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_AANT2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.85	0.12	30.00	1.00	Complies
2437	20.87	0.12	30.00	1.00	Complies
2462	19.85	0.10	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_AANT3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.39	0.14	30.00	1.00	Complies
2437	21.31	0.14	30.00	1.00	Complies
2462	20.26	0.11	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.14	0.26	30.00	1.00	Complies
2437	24.11	0.26	30.00	1.00	Complies
2462	23.07	0.20	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_AANT2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.91	0.12	30.00	1.00	Complies
2437	20.96	0.12	30.00	1.00	Complies
2452	18.63	0.07	30.00	1.00	Complies

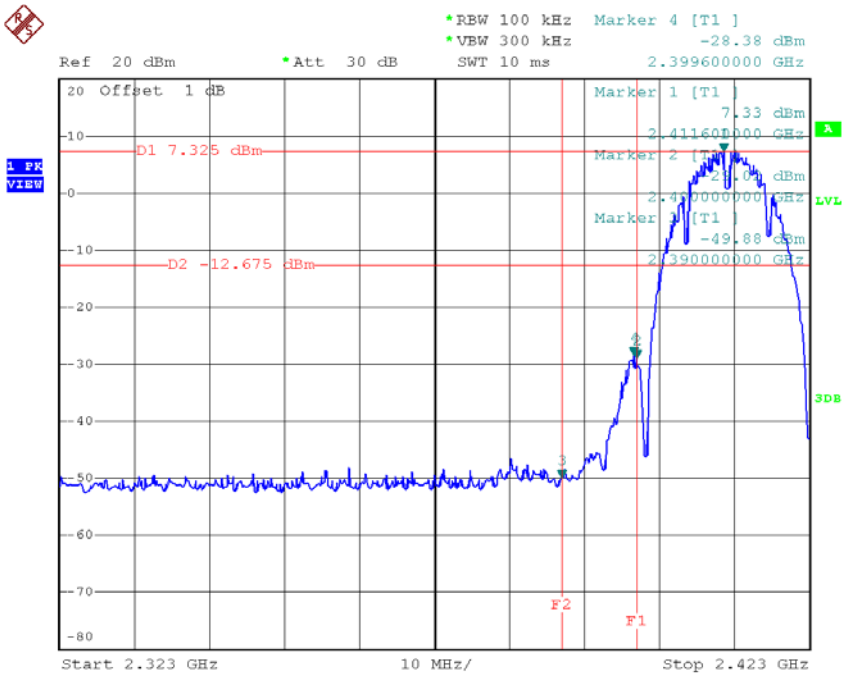
Test Mode :TX N40 Mode_CH03/06/09_AANT3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.38	0.14	30.00	1.00	Complies
2437	21.28	0.13	30.00	1.00	Complies
2452	19.86	0.10	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	24.16	0.26	30.00	1.00	Complies
2437	24.13	0.26	30.00	1.00	Complies
2452	22.30	0.17	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

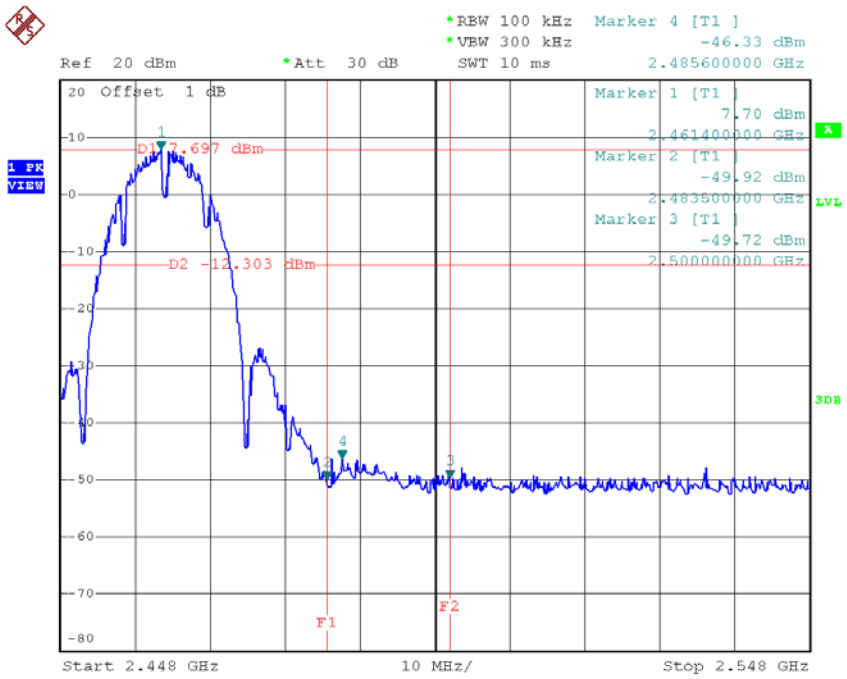
Test Mode :	TX B Mode

TX B mode CH01



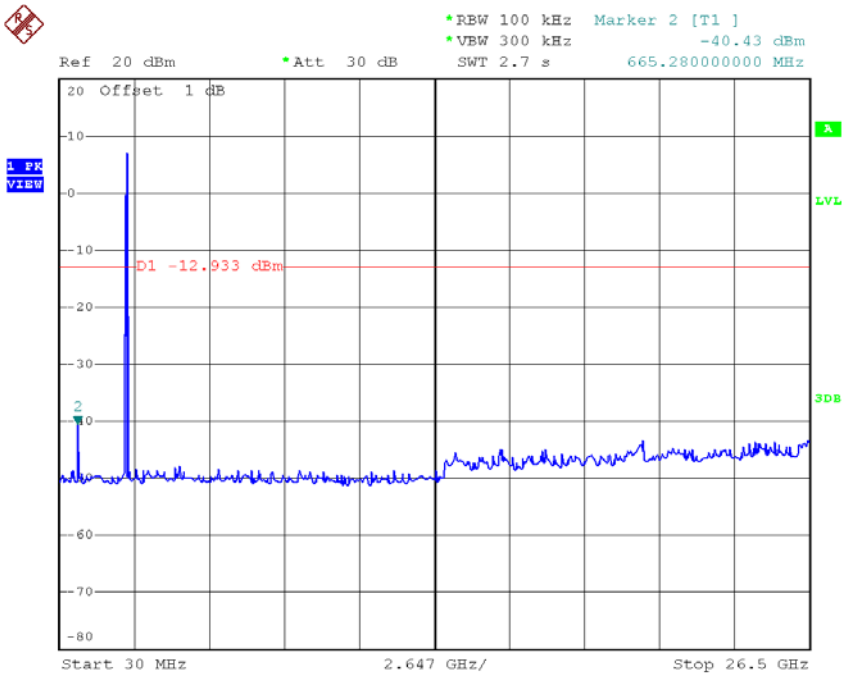
Date: 27.AUG.2015 11:36:48

TX B mode CH11



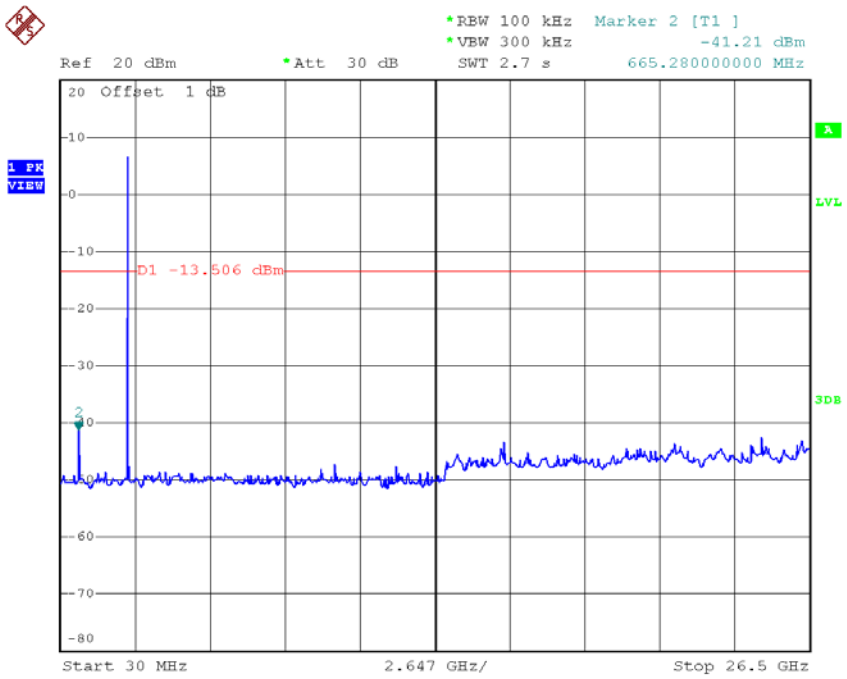
Date: 27.AUG.2015 11:39:45

TX B mode CH01 (10 Harmonic of the frequency)



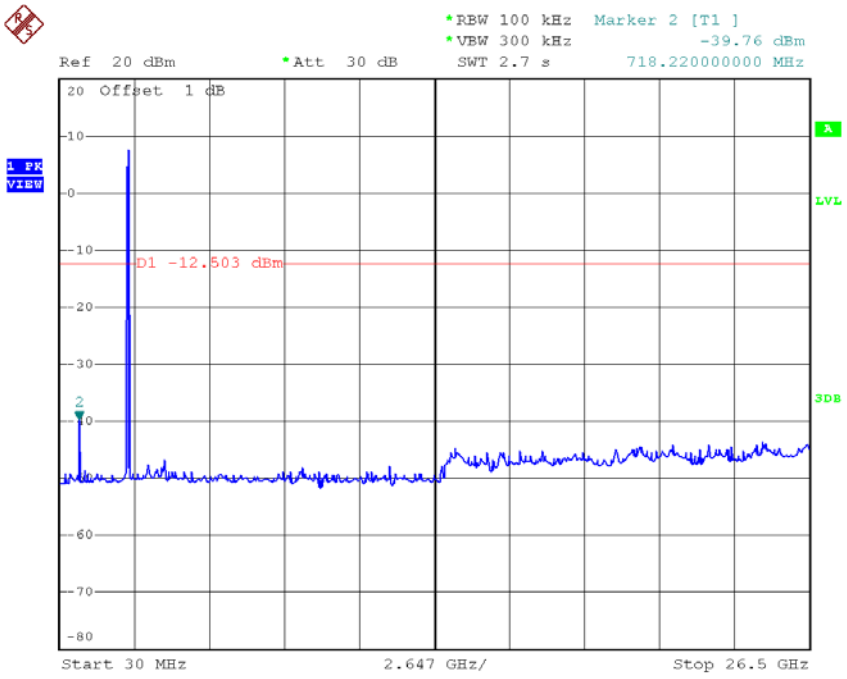
Date: 27.AUG.2015 11:36:40

TX B mode CH06 (10 Harmonic of the frequency)



Date: 27.AUG.2015 11:38:22

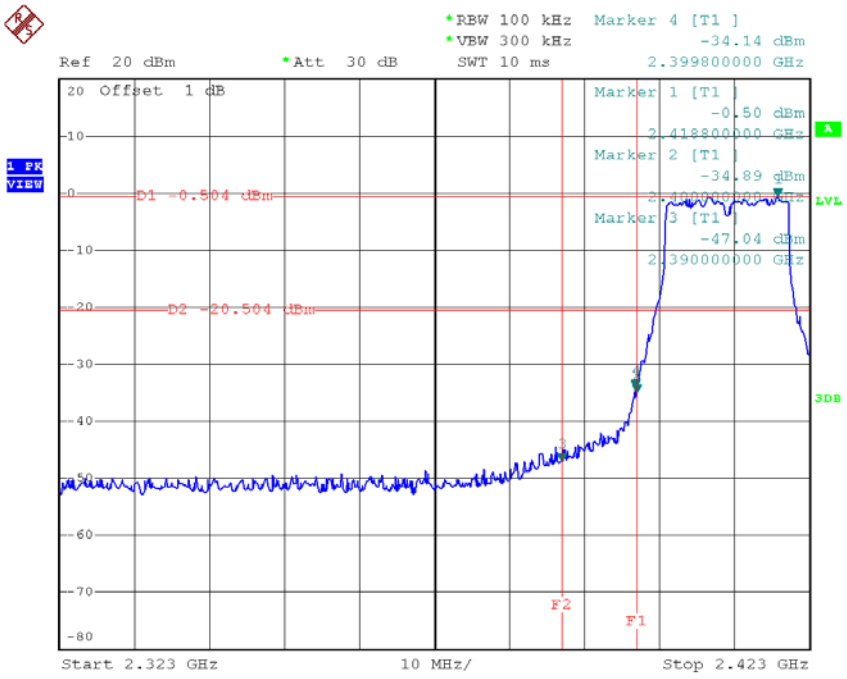
TX B mode CH11 (10 Harmonic of the frequency)



Date: 27.AUG.2015 11:39:37

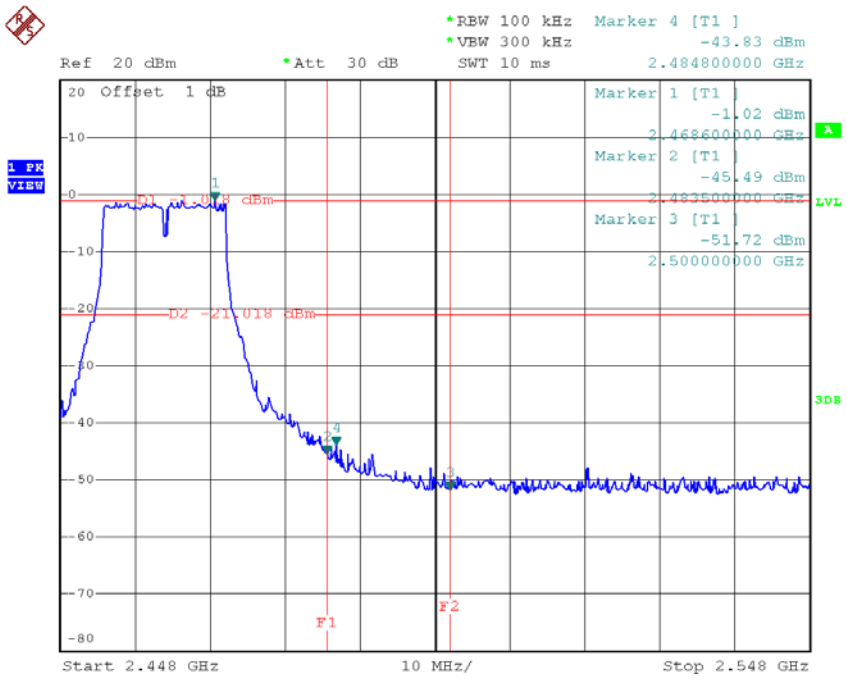
Test Mode :	**TX G Mode**

TX G mode CH01



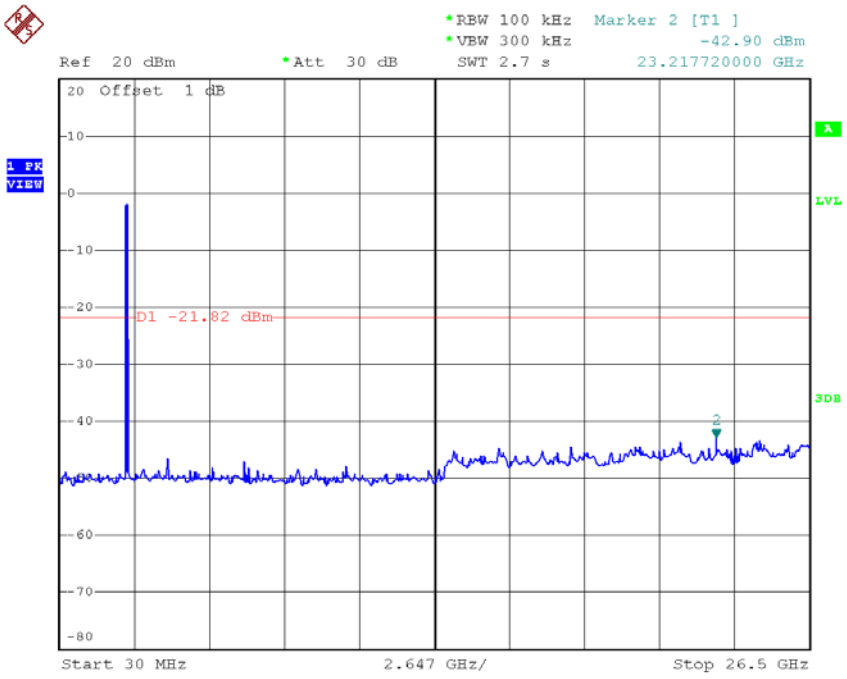
Date: 27.AUG.2015 11:40:59

TX G mode CH11



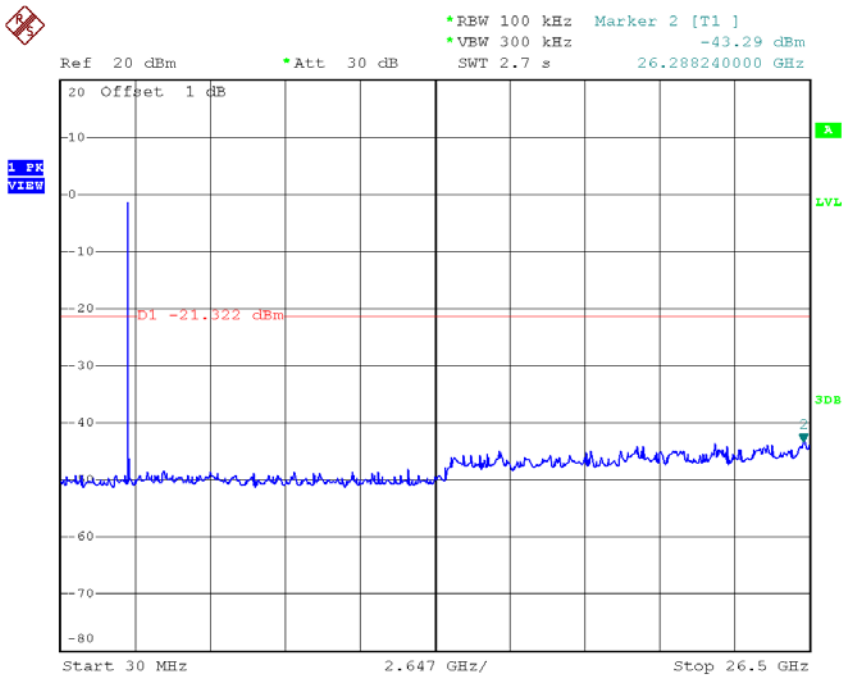
Date: 27.AUG.2015 11:43:16

TX G mode CH01 (10 Harmonic of the frequency)



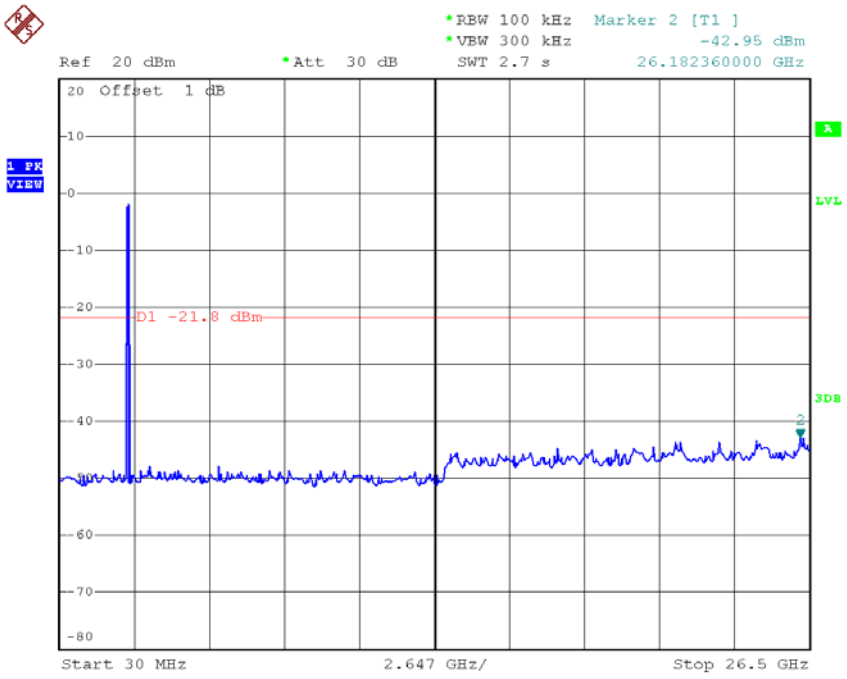
Date: 27.AUG.2015 11:40:52

TX G mode CH06 (10 Harmonic of the frequency)



Date: 27.AUG.2015 11:41:59

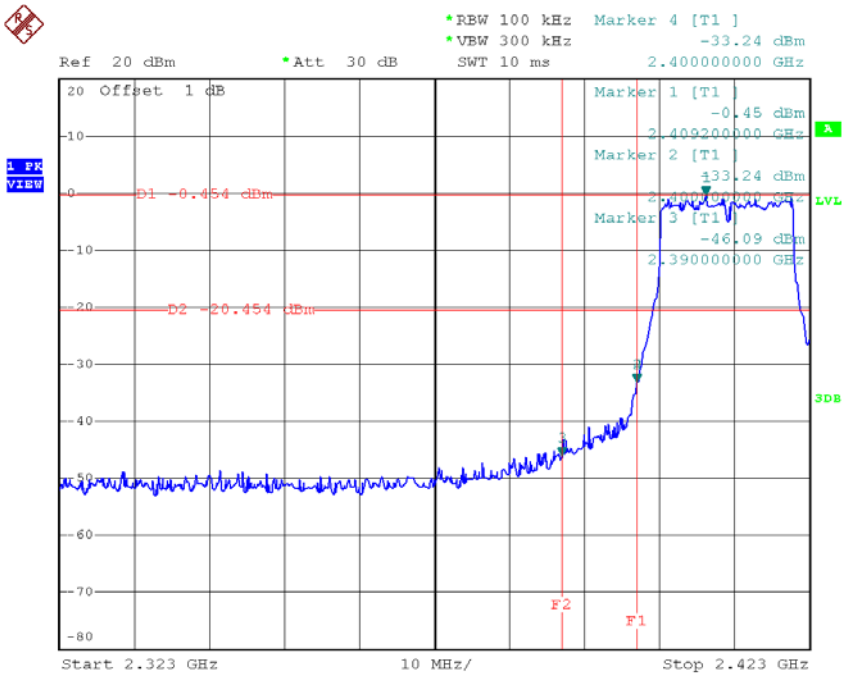
TX G mode CH11 (10 Harmonic of the frequency)



Date: 27.AUG.2015 11:43:08

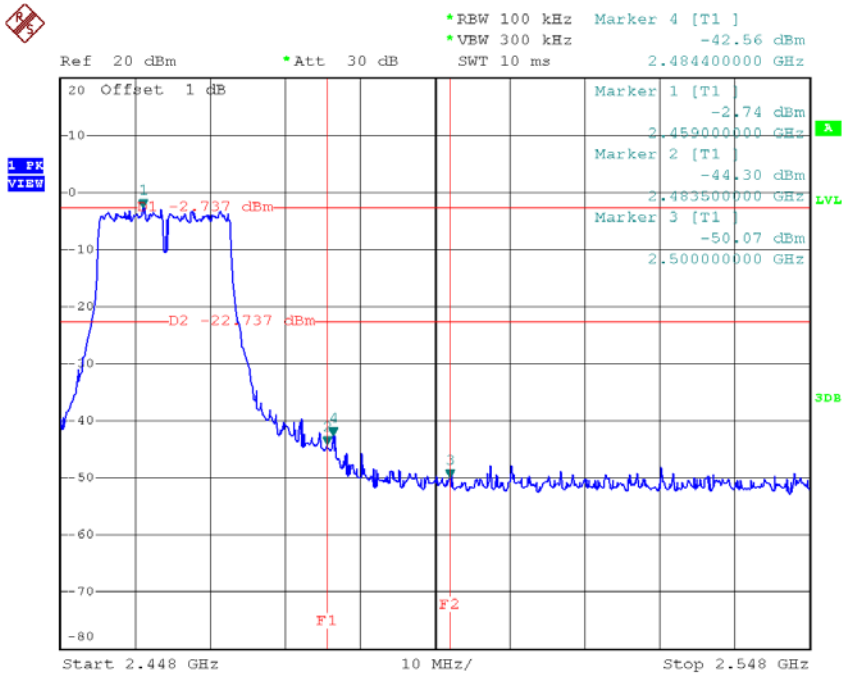
Test Mode :	TX N-20M Mode_AANT2

TX HT20 mode CH01



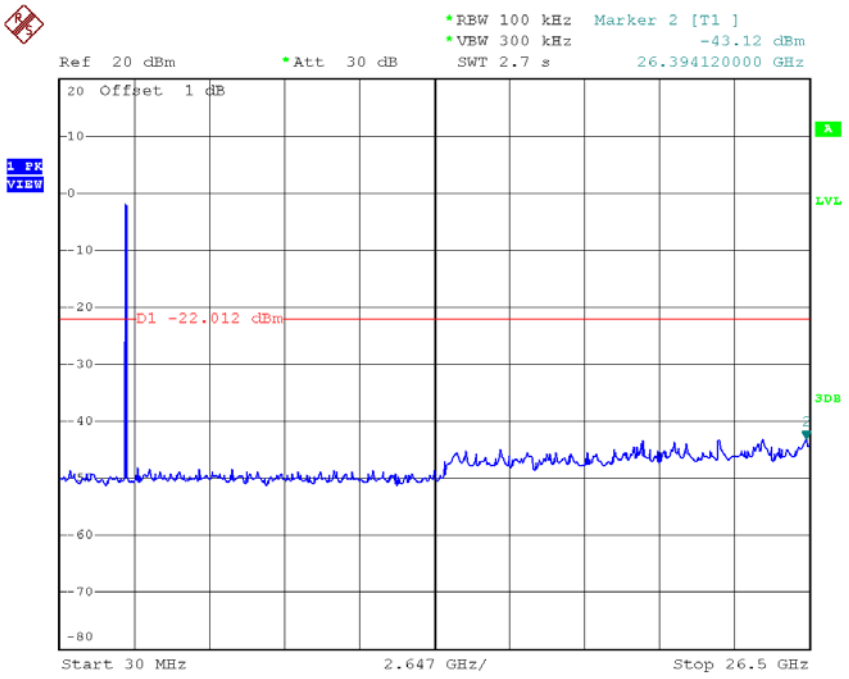
Date: 27.AUG.2015 11:58:11

TX HT20 mode CH11



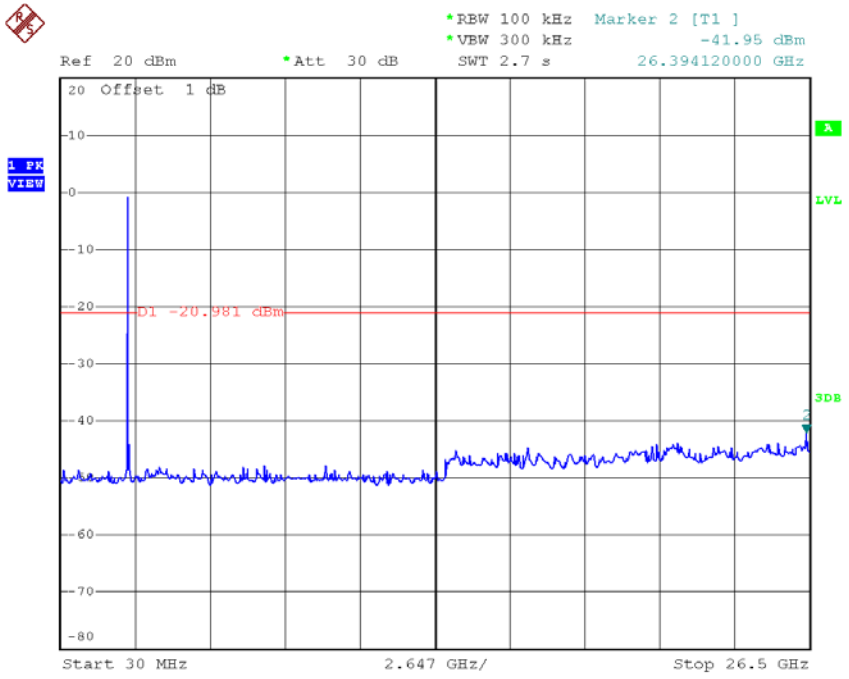
Date: 27.AUG.2015 11:59:41

TX HT20 mode CH01 (10 Harmonic of the frequency)



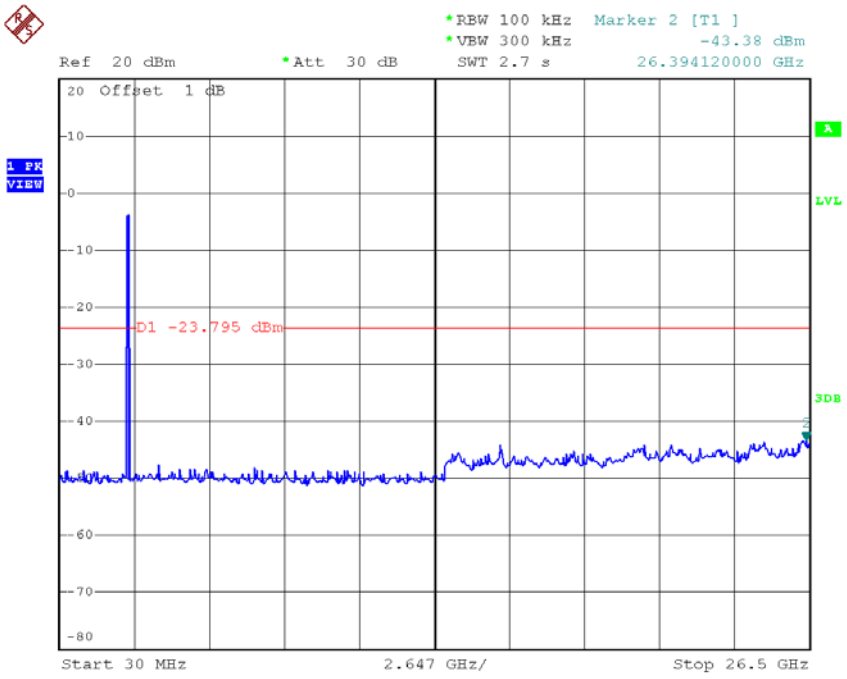
Date: 27.AUG.2015 11:58:04

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 27.AUG.2015 11:58:46

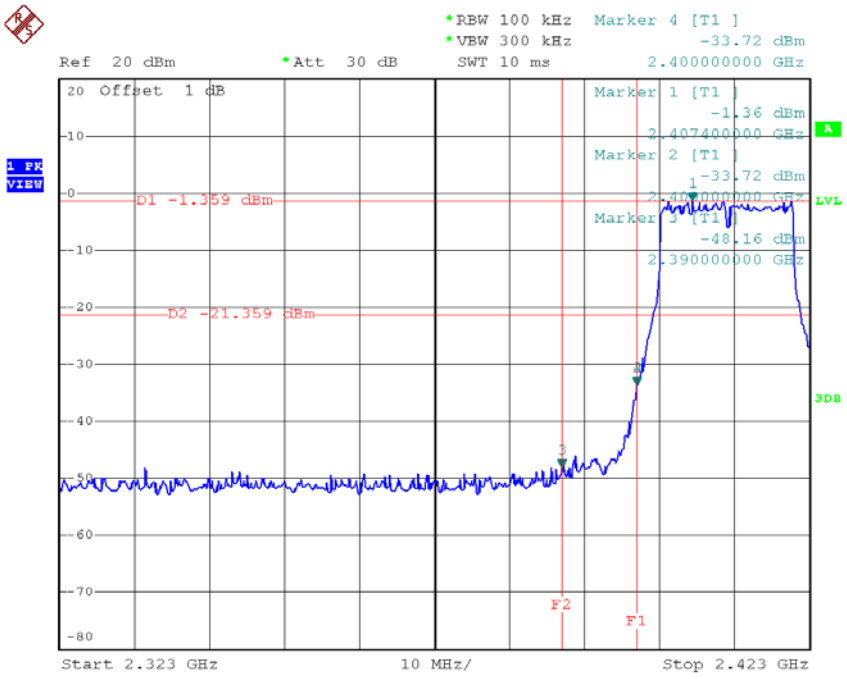
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 27.AUG.2015 11:59:33

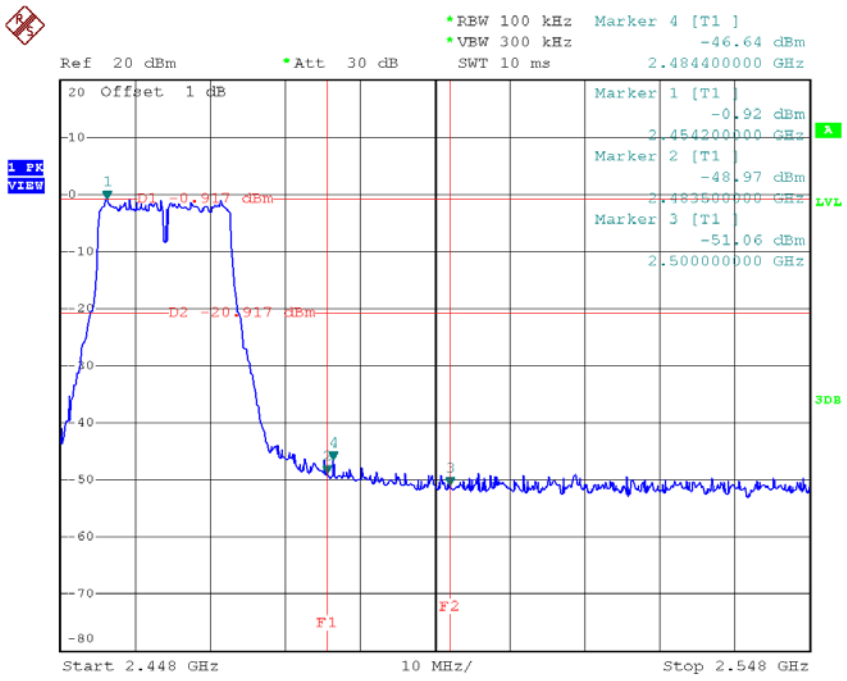
Test Mode :	TX N-20M Mode_AANT3

TX HT20 mode CH01



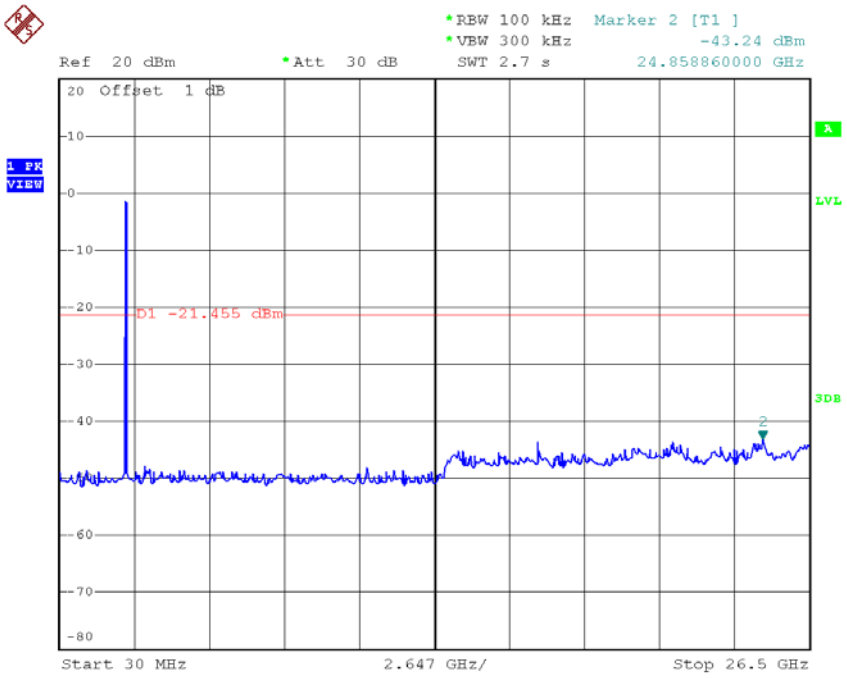
Date: 27.AUG.2015 12:00:37

TX HT20 mode CH11



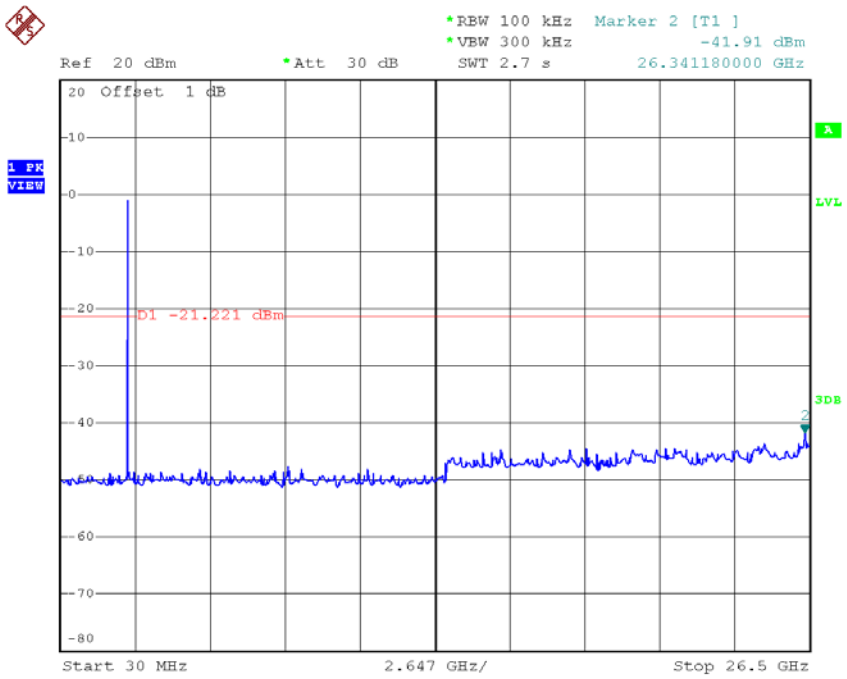
Date: 27.AUG.2015 12:01:57

TX HT20 mode CH01 (10 Harmonic of the frequency)



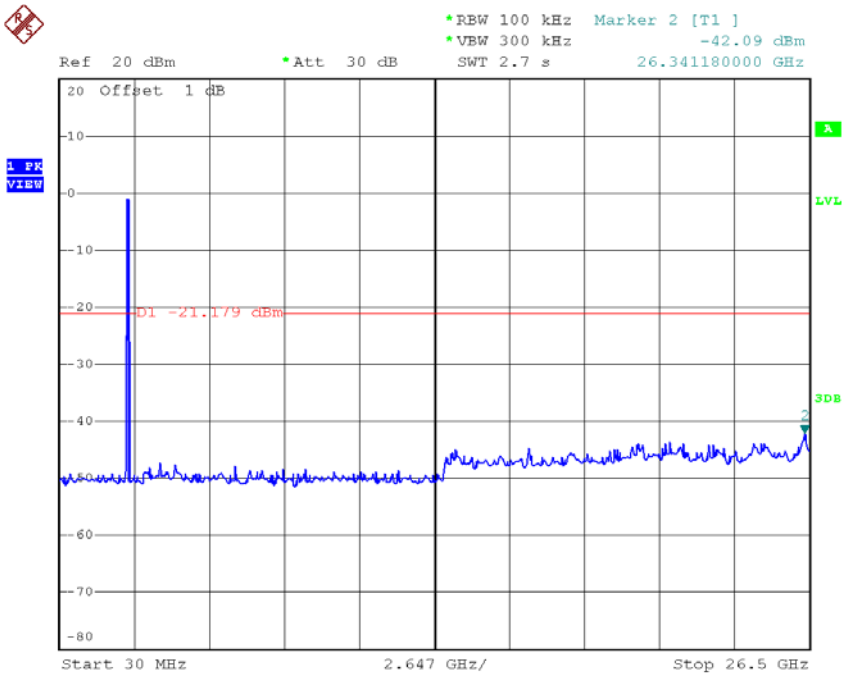
Date: 27.AUG.2015 12:00:29

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 27.AUG.2015 12:01:13

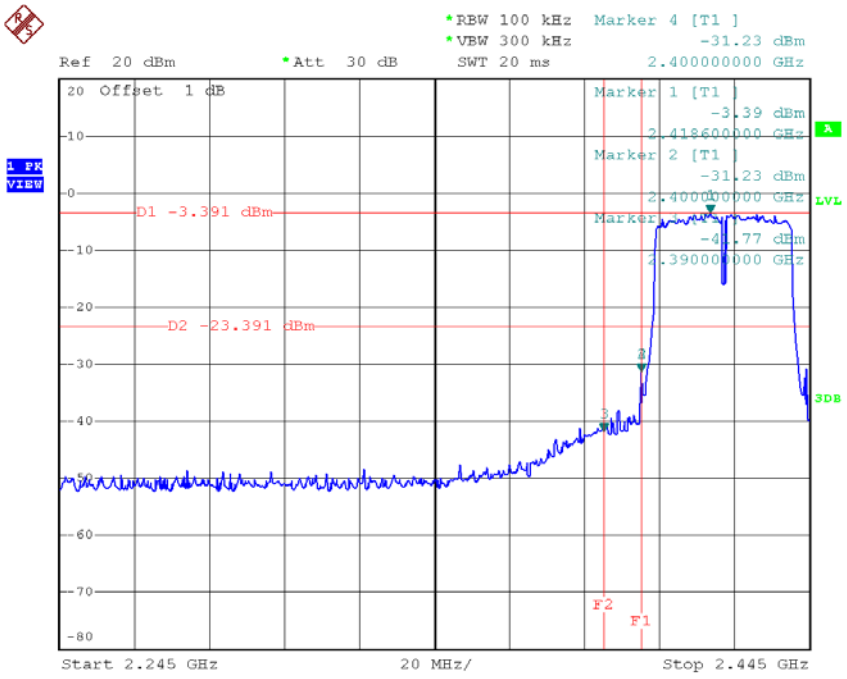
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 27.AUG.2015 12:01:49

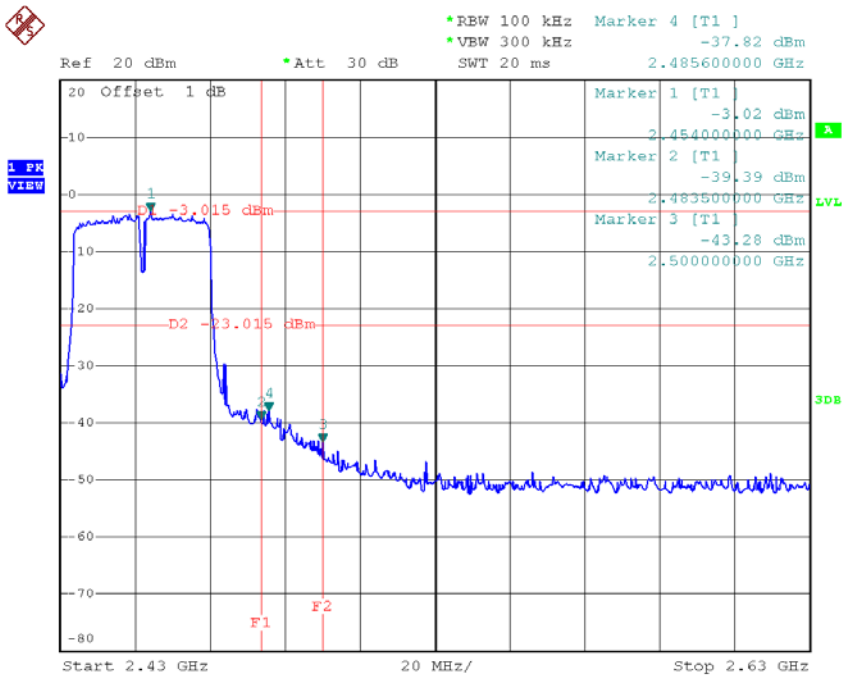
Test Mode :	TX N-40M Mode_AANT2

TX HT40 mode CH03



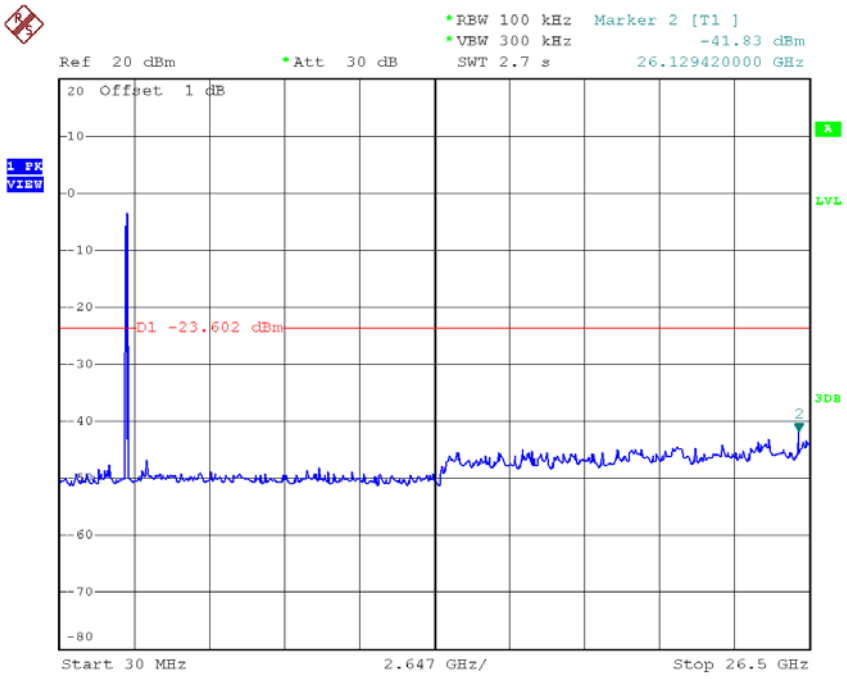
Date: 27.AUG.2015 12:03:14

TX HT40 mode CH09



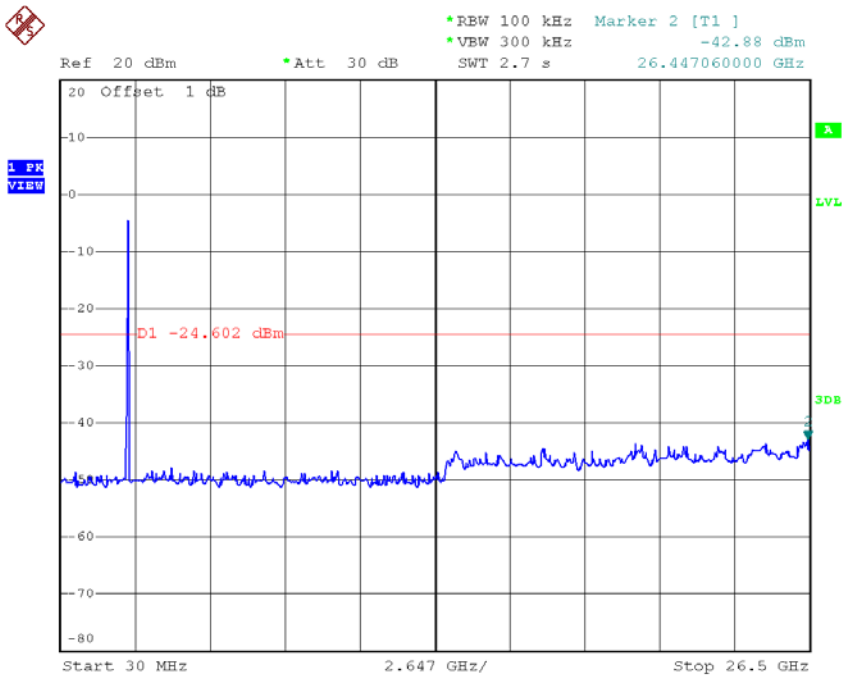
Date: 27.AUG.2015 12:06:27

TX HT40 mode CH03 (10 Harmonic of the frequency)



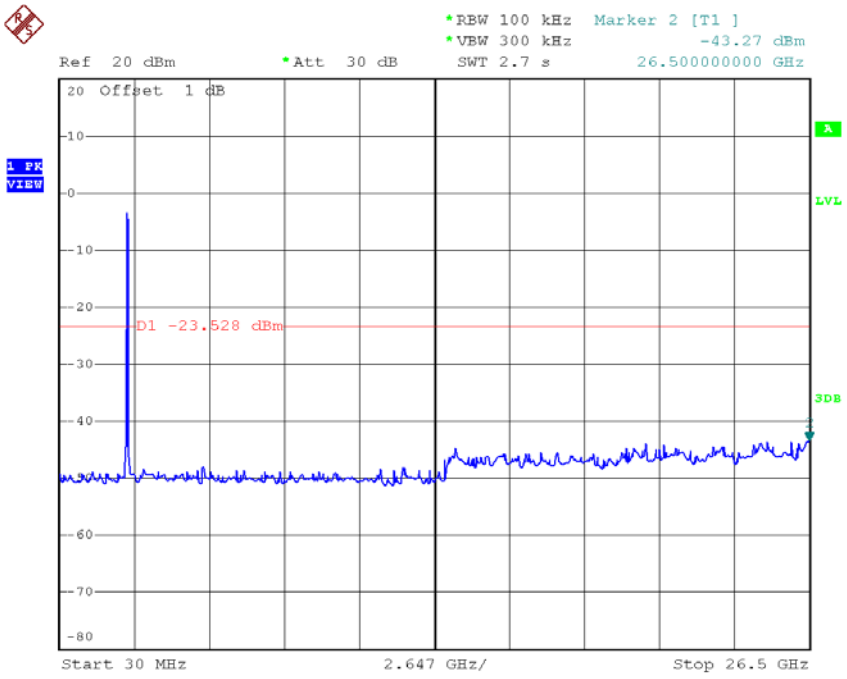
Date: 27.AUG.2015 12:03:07

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 27.AUG.2015 12:05:42

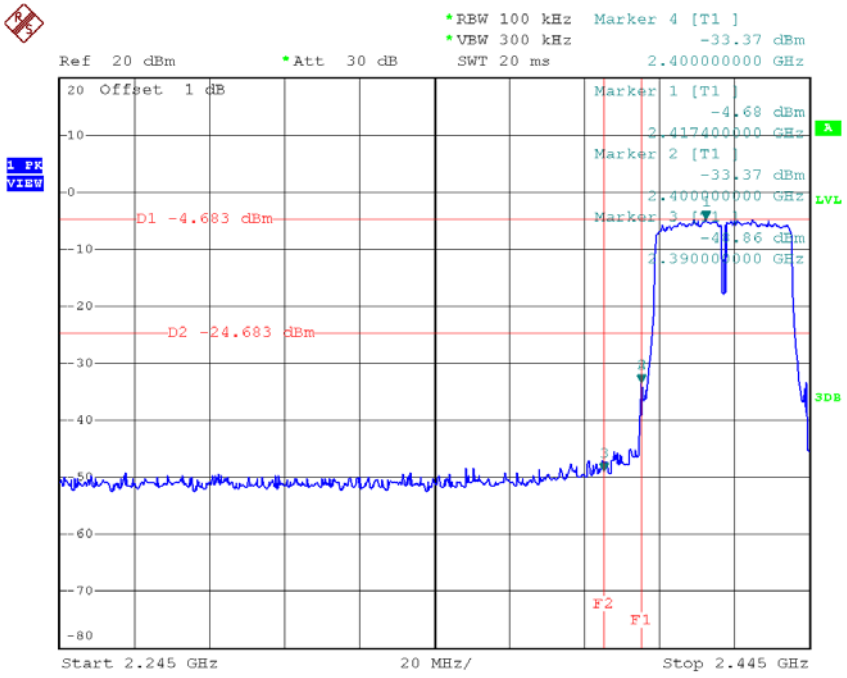
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 27.AUG.2015 12:06:20

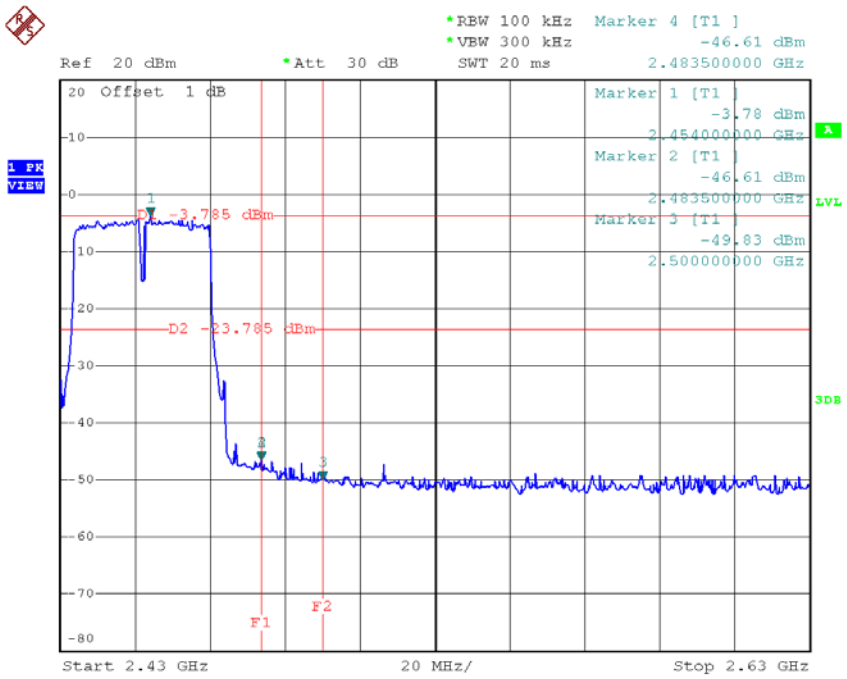
Test Mode :	TX N-40M Mode_AANT3

TX HT40 mode CH03



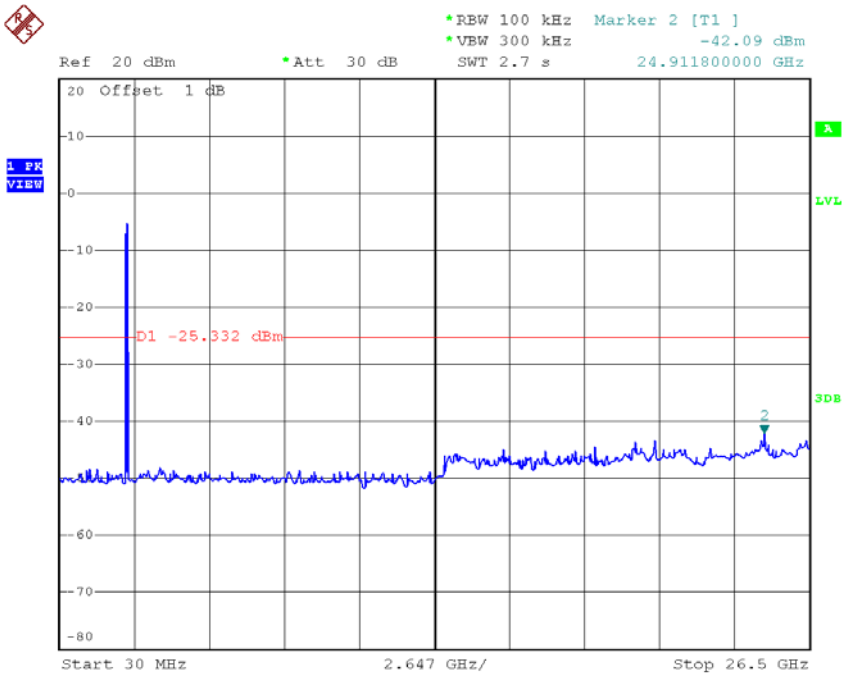
Date: 27.AUG.2015 12:07:37

TX HT40 mode CH09



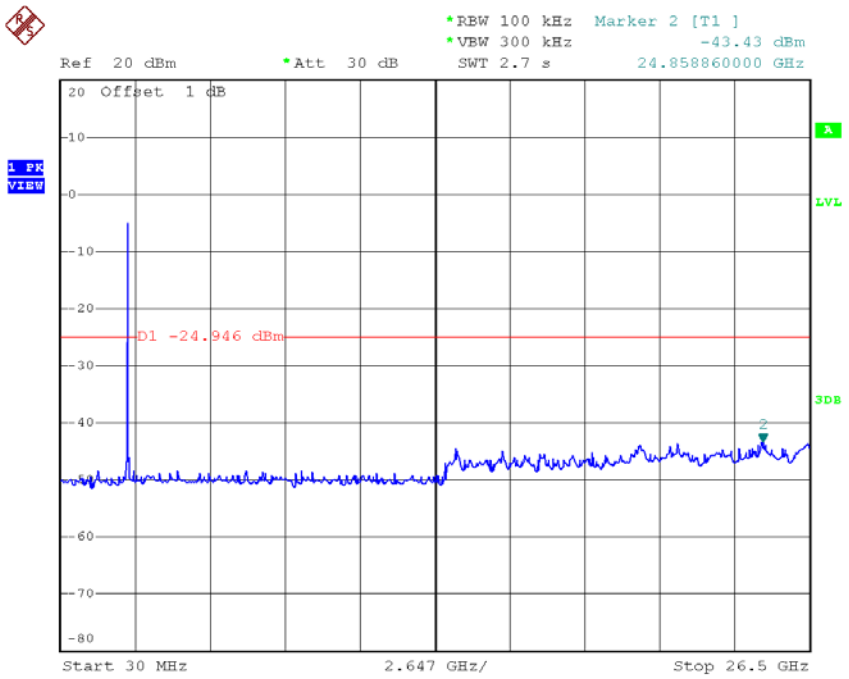
Date: 27.AUG.2015 12:09:11

TX HT40 mode CH03 (10 Harmonic of the frequency)



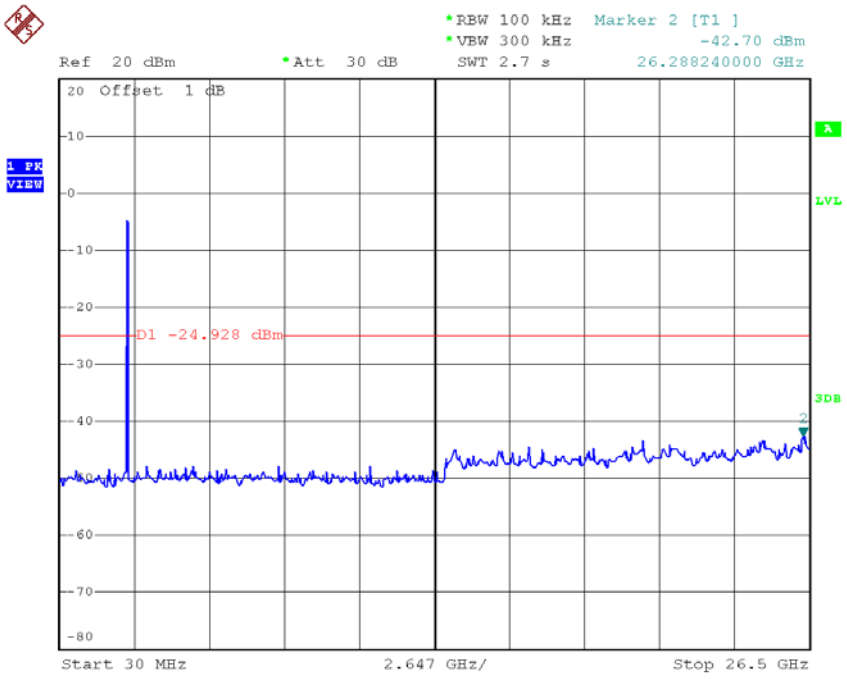
Date: 27.AUG.2015 12:07:29

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 27.AUG.2015 12:08:13

TX HT40 mode CH09 (10 Harmonic of the frequency)



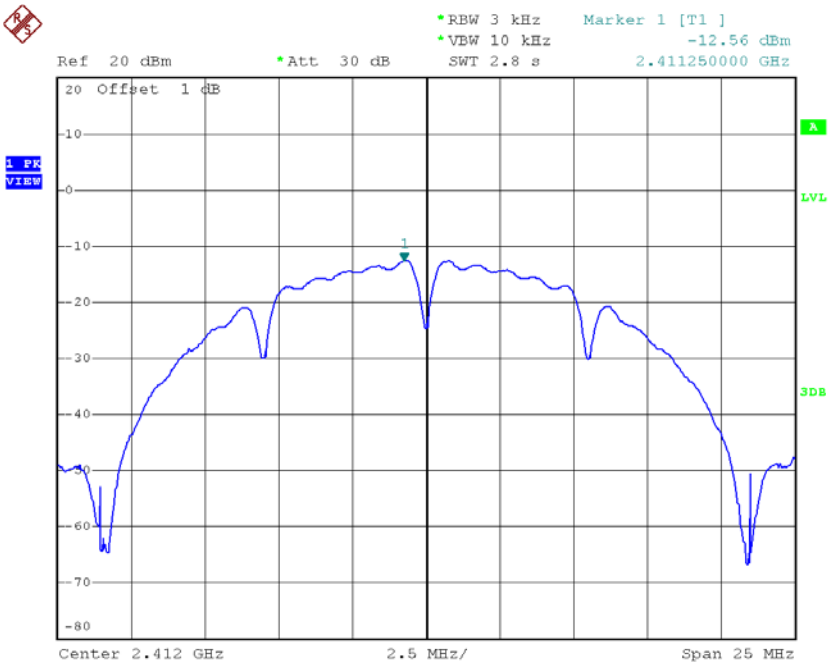
Date: 27.AUG.2015 12:09:03

ATTACHMENT H - POWER SPECTRAL DENSITY

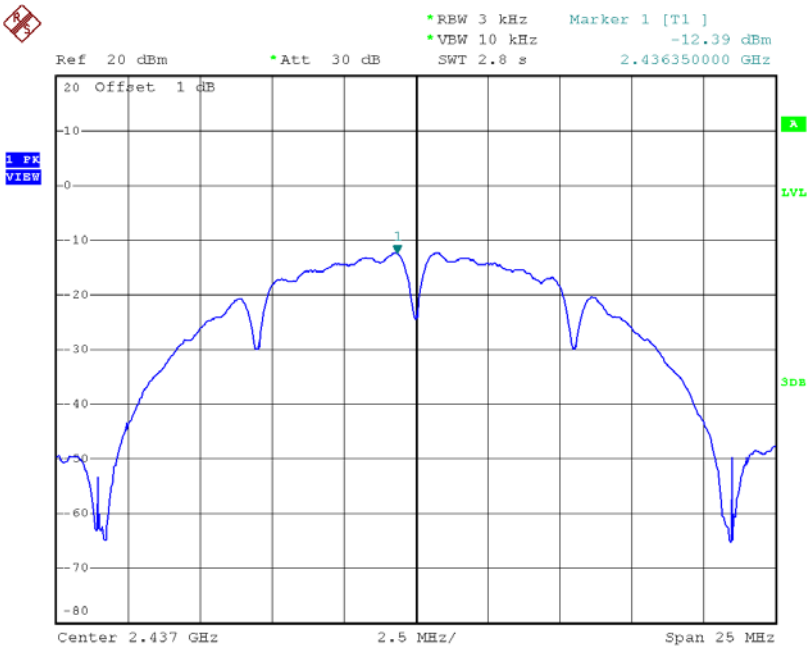
Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.56	0.06	8.00	Complies
2437	-12.39	0.06	8.00	Complies
2462	-12.14	0.06	8.00	Complies

TX CH01

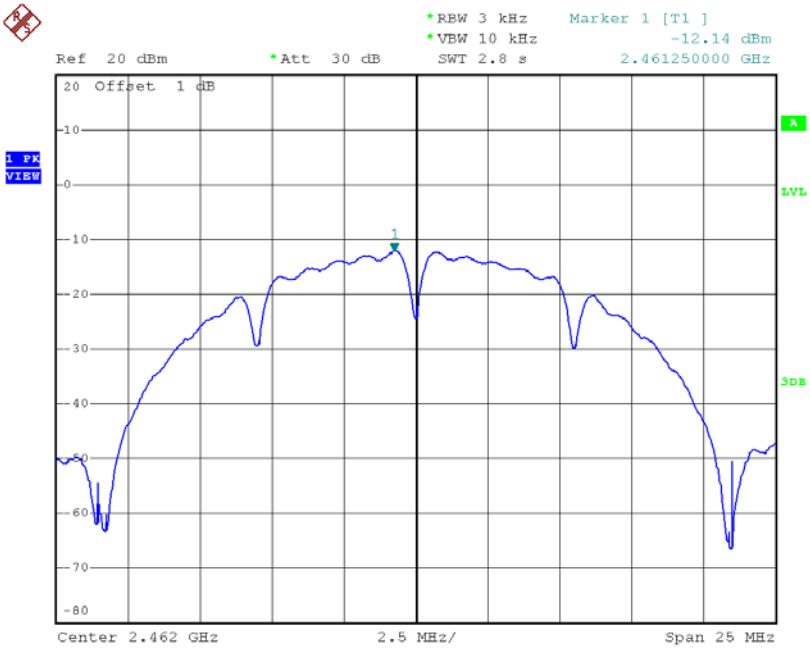


TX CH06



Date: 27.AUG.2015 11:38:31

TX CH11

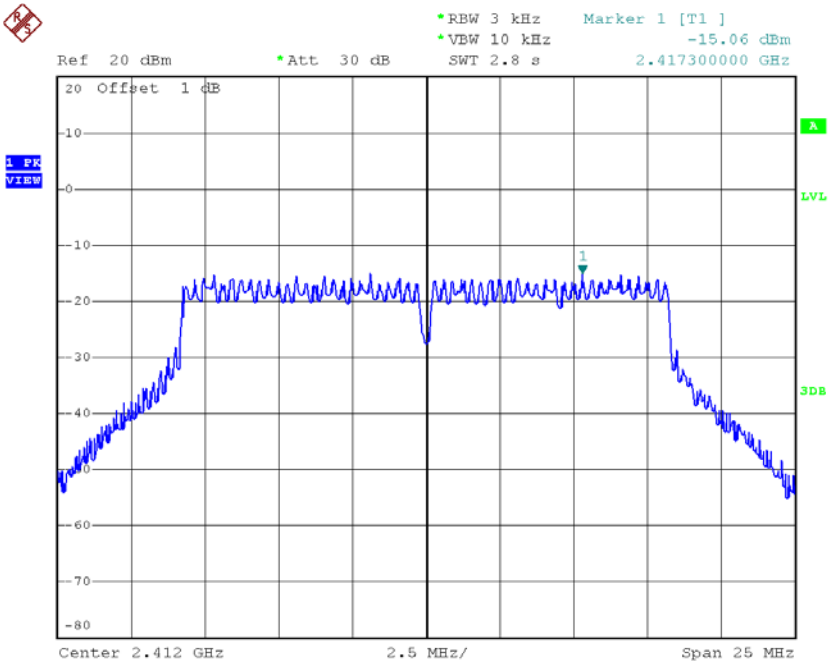


Date: 27.AUG.2015 11:39:54

Test Mode :TX G Mode_CH01/06/11

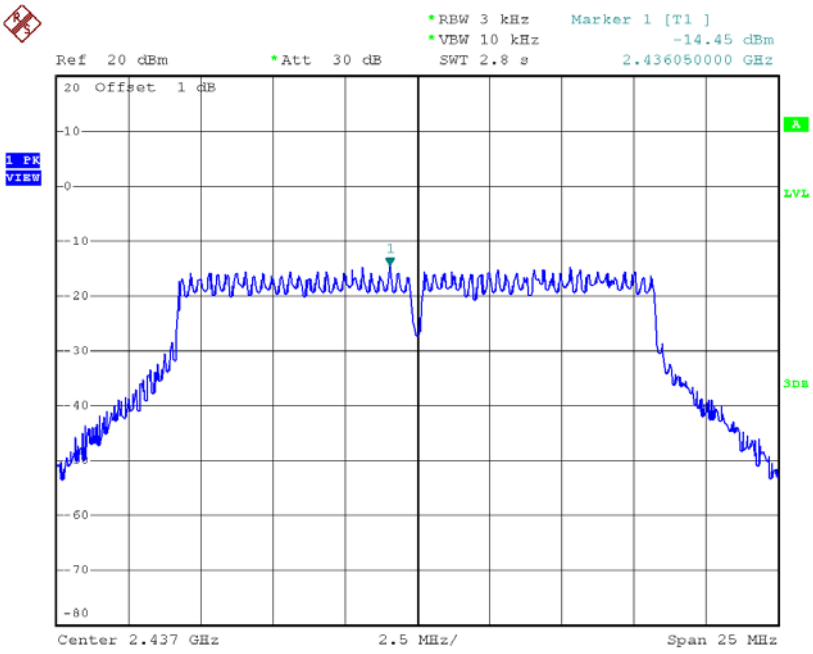
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.06	0.03	8.00	Complies
2437	-14.45	0.04	8.00	Complies
2462	-15.09	0.03	8.00	Complies

TX CH01



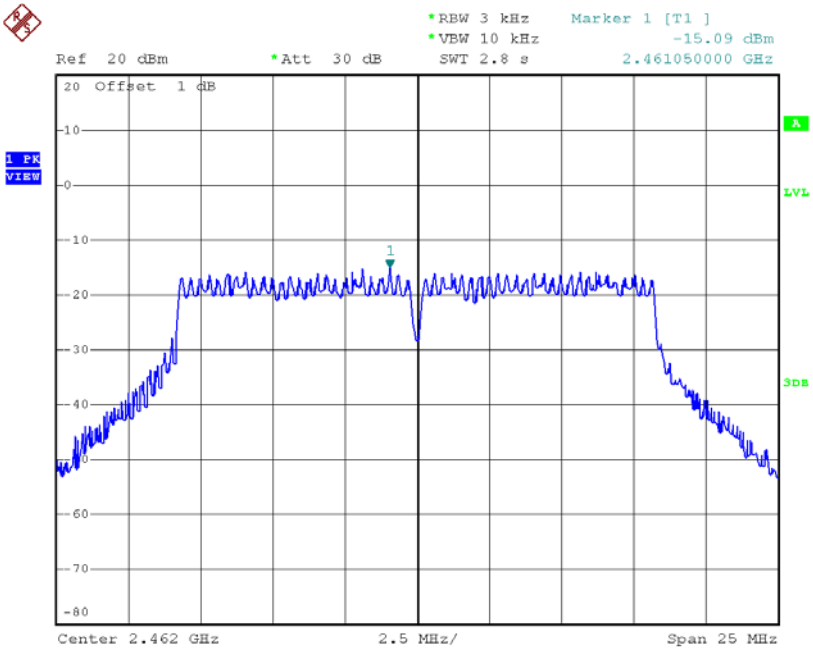
Date: 27.AUG.2015 11:41:09

TX CH06



Date: 27.AUG.2015 11:42:08

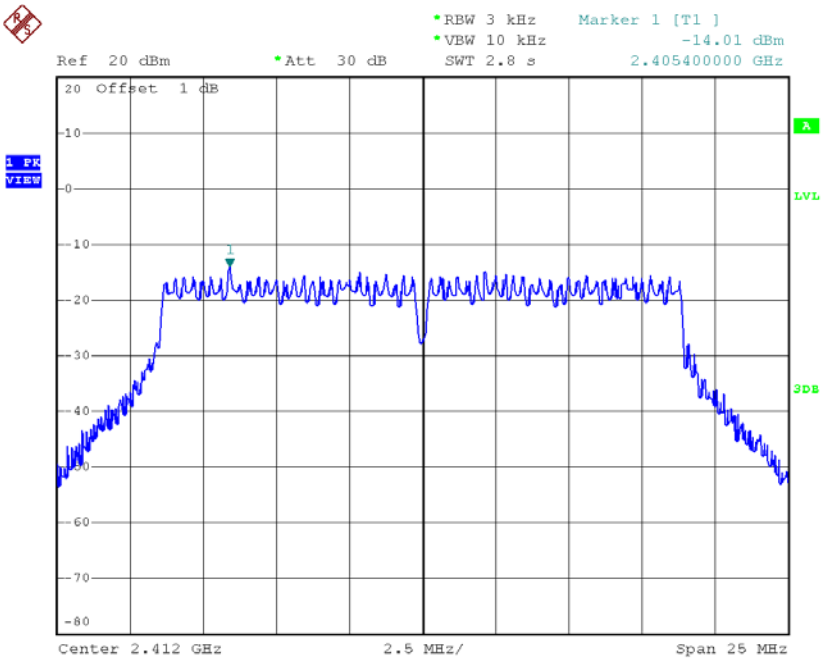
TX CH11



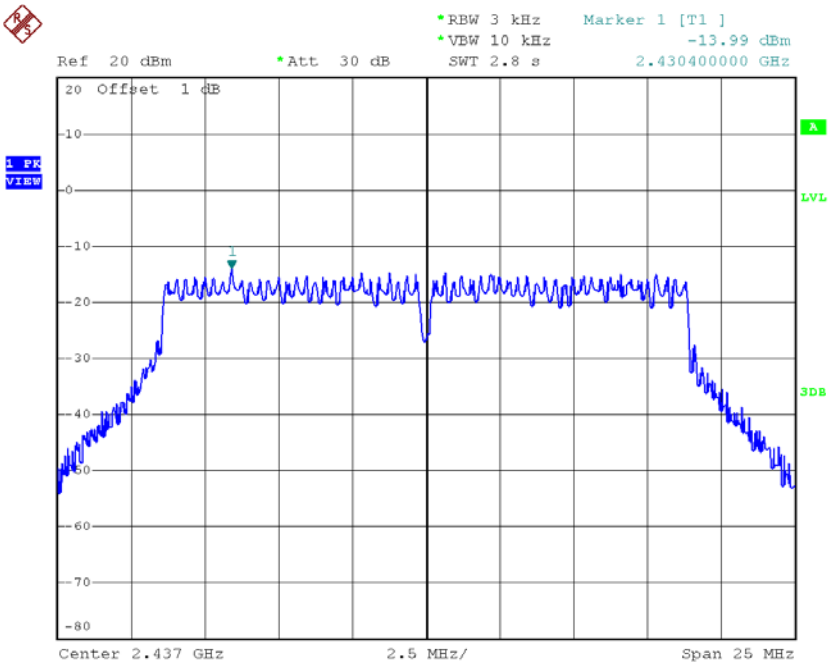
Date: 27.AUG.2015 11:43:25

Test Mode : TX N-20M Mode_CH01/06/11_AANT2				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.01	0.04	8.00	Complies
2437	-13.99	0.04	8.00	Complies
2462	-16.22	0.02	8.00	Complies

TX CH01

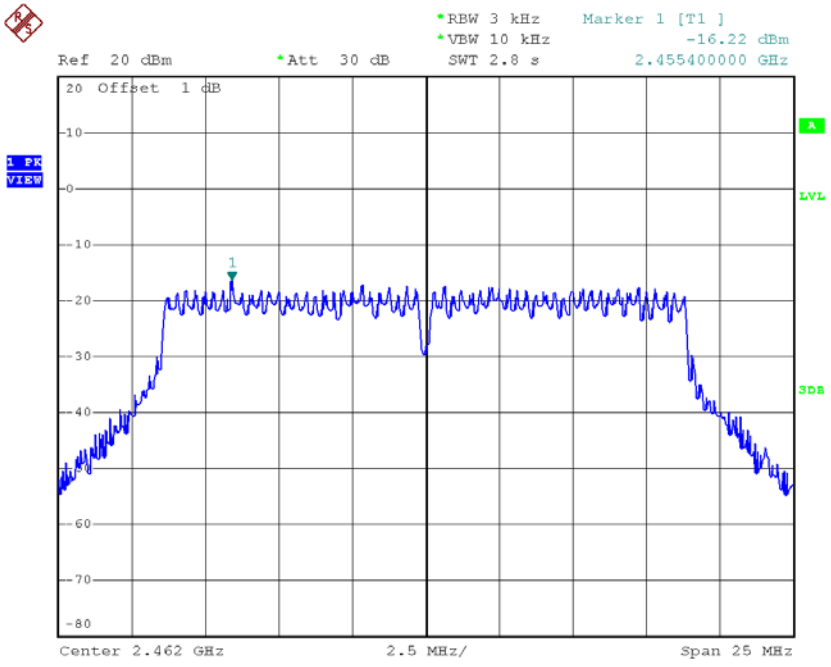


TX CH06



Date: 27.AUG.2015 11:58:55

TX CH11

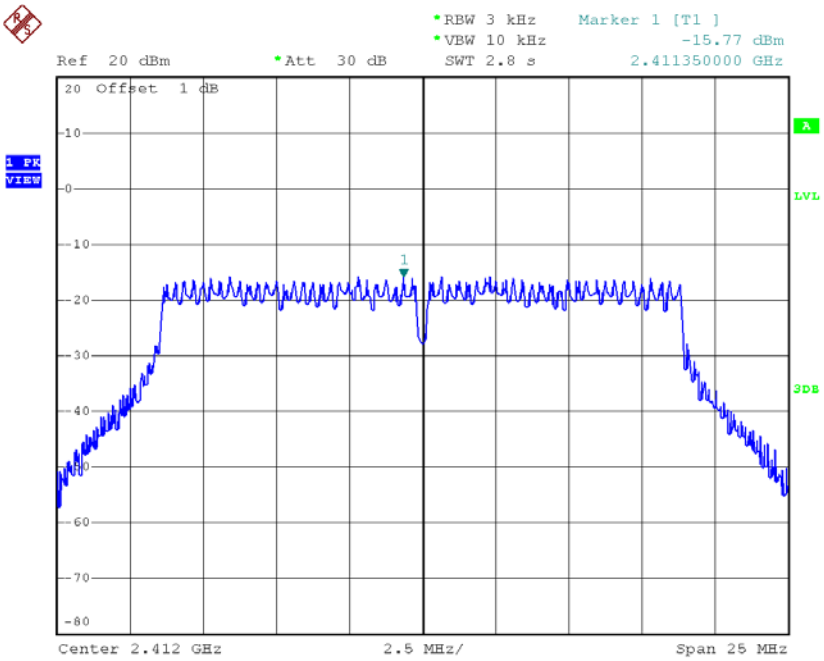


Date: 27.AUG.2015 11:59:50

Test Mode : TX N-20M Mode_CH01/06/11_AANT3

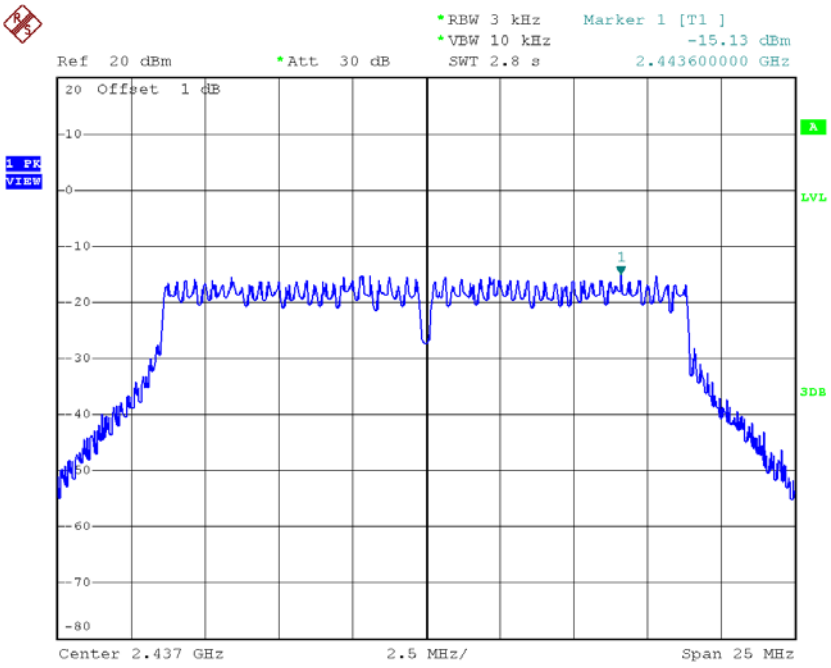
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.77	0.03	8.00	Complies
2437	-15.13	0.03	8.00	Complies
2462	-15.29	0.03	8.00	Complies

TX CH01



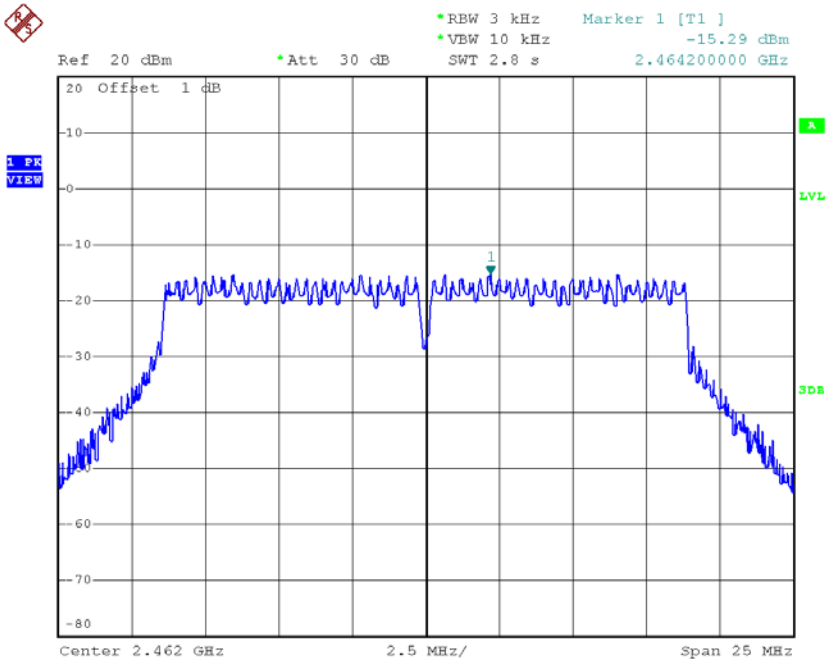
Date: 27.AUG.2015 12:00:46

TX CH06



Date: 27.AUG.2015 12:01:22

TX CH11



Date: 27.AUG.2015 12:02:06

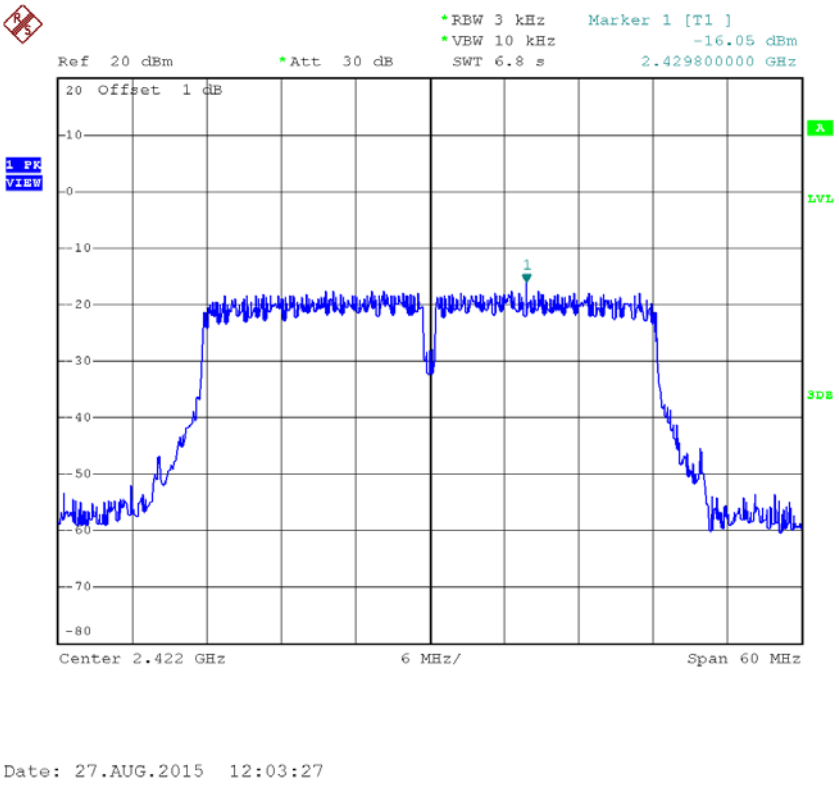
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.55	0.07	8.00	Complies
2437	-11.55	0.07	8.00	Complies
2462	-13.01	0.05	8.00	Complies

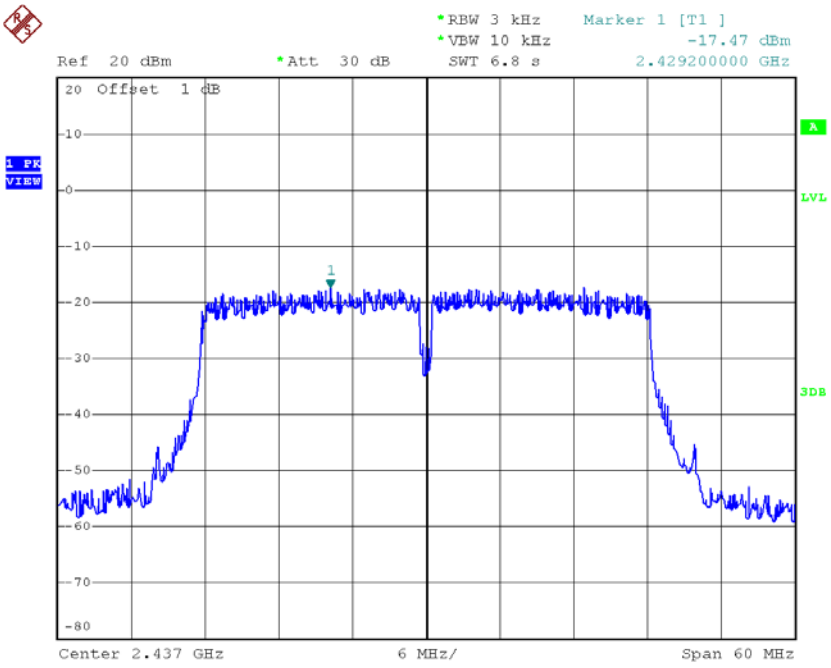
Test Mode : TX N-40M Mode_CH03/06/09_AANT2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.05	0.02	8.00	Complies
2437	-17.47	0.02	8.00	Complies
2452	-16.30	0.02	8.00	Complies

TX CH03

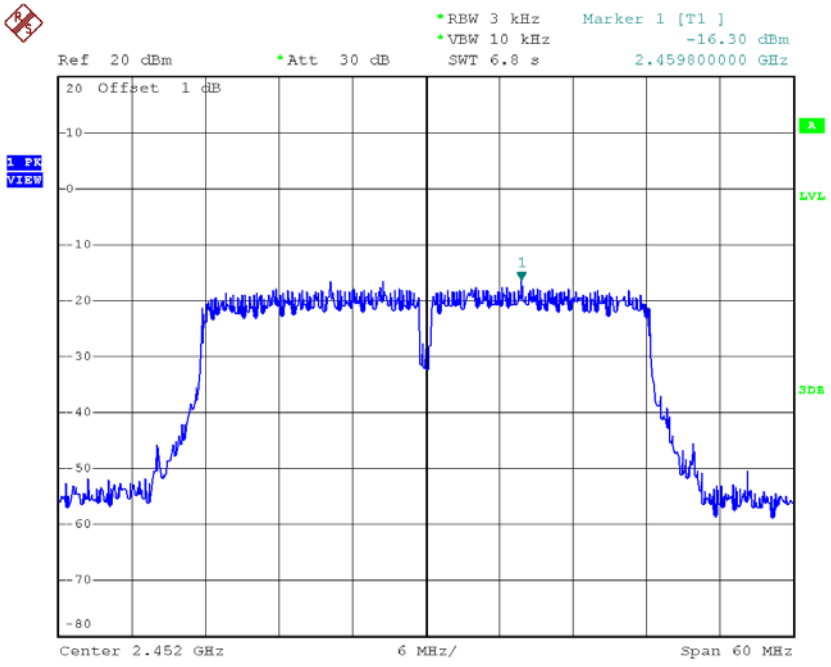


TX CH06



Date: 27.AUG.2015 12:05:54

TX CH09

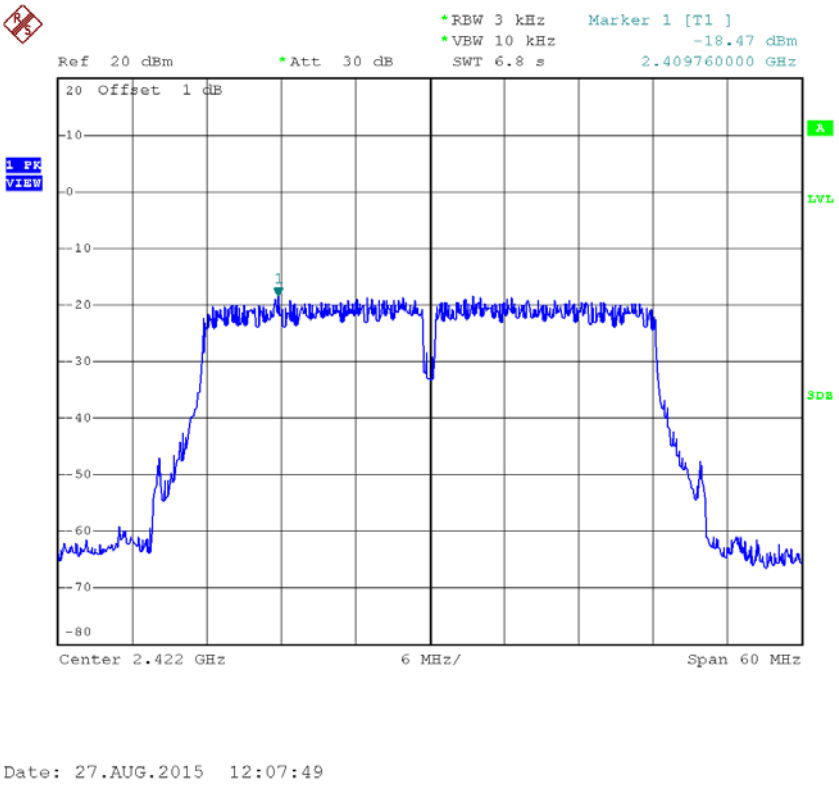


Date: 27.AUG.2015 12:06:40

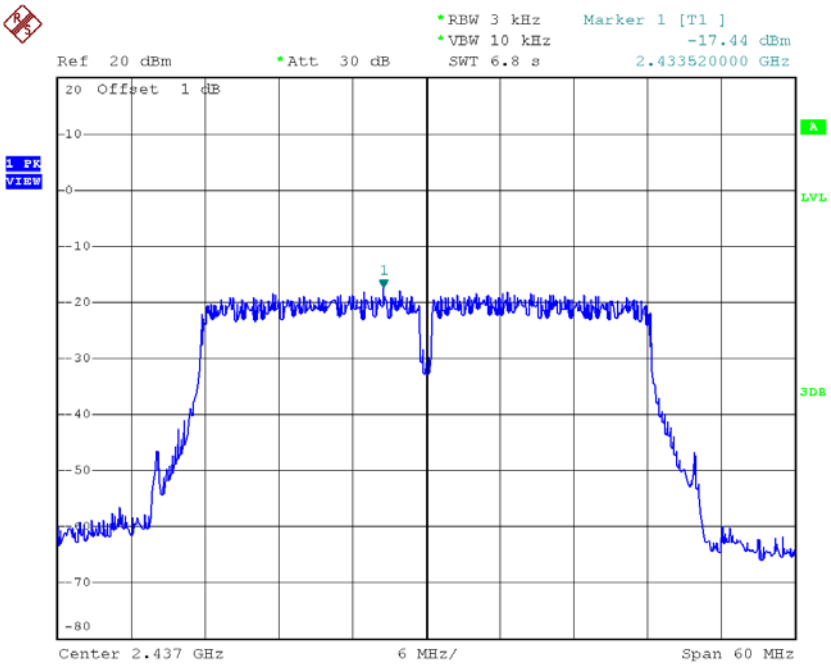
Test Mode : TX N-40M Mode_CH03/06/09_AANT3

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.47	0.01	8.00	Complies
2437	-17.44	0.02	8.00	Complies
2452	-17.13	0.02	8.00	Complies

TX CH03

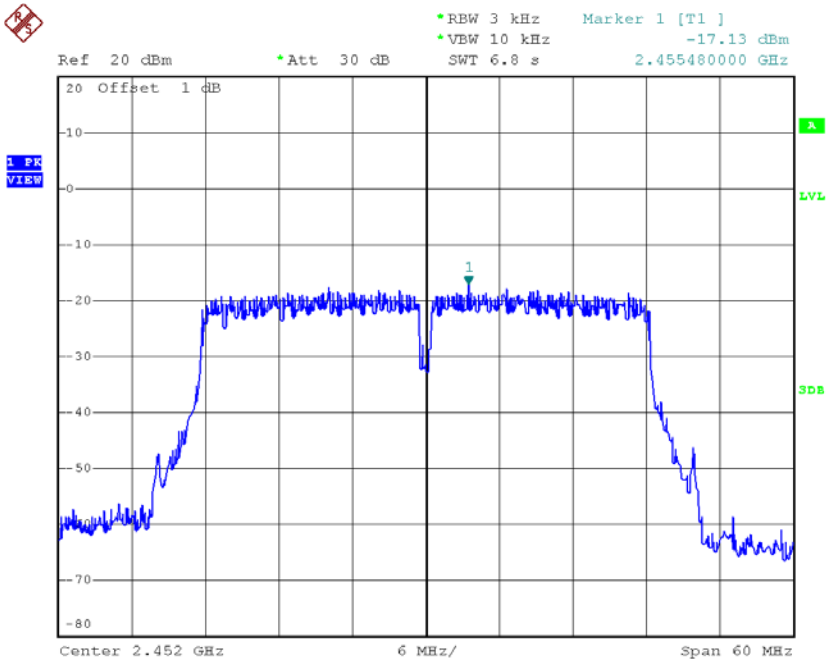


TX CH06



Date: 27.AUG.2015 12:08:25

TX CH09



Date: 27.AUG.2015 12:09:23

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.23	0.03	8.00	Complies
2437	-13.98	0.04	8.00	Complies
2452	-13.98	0.04	8.00	Complies