

FCC Radio Test Report

FCC ID:KA2IR819A1

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

Project No. : 1605C069A
Equipment : Wireless AC750 Dual Band Router
Model Name : DIR-819
Applicant : D-LINK Corporation
Address : 17595 Mt. Herrmann, Fountain Valley, California,
United States

Date of Receipt : May 10, 2016
Date of Test : May 10, 2016 ~ Nov. 16, 2016
Issued Date : Nov. 17, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1605C069A	Original Issue.	Nov. 17, 2016

1. CERTIFICATION

Equipment : Wireless AC750 Dual Band Router
Brand Name : D-LINK
Model Name : DIR-819
Applicant : D-LINK Corporation
Manufacturer : D-LINK Corporation
Address : 17595 Mt. Herrmann, Fountain Valley, California, United States
Date of Test : May 10, 2016 ~ Nov. 16, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(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-1-1605C069A) 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			
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 $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
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	Wireless AC750 Dual Band Router	
Brand Name	D-LINK	
Model Name	DIR-819	
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: 23.62dBm 802.11g: 26.76dBm 802.11n(20MHz): 26.21dBm 802.11n(40MHz): 26.51dBm
Power Source	DC voltage supplied from AC/DC adapter. Model: S06A12-120A050-C4	
Power Rating	I/P: 100-240V~50/60Hz max 0.3A O/P: 12V---0.5A	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 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)	Length
1	<i>RF link</i>	RF21C00633A	Dipole	N/A	5	150mm
2	<i>RF link</i>	RF21C00640A	Dipole	N/A	5	100mm

Note:

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

4.

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

Note: ANT 1 for 1TX was found to be the worst case and recorded.

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	Normal Link

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

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

6dB Spectrum Bandwidth	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

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

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

Note:

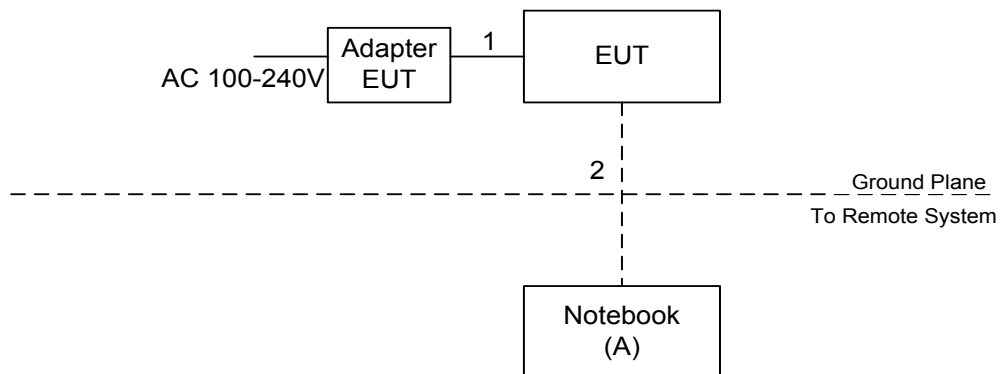
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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	MT76xxE_AP.exe		
Frequency (MHz)	2412	2437	2462
802.11b	12	14	14
802.11g	6	15	5
802.11n (20MHz)	6	0C	5
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	0A	11	0A

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.
A	Notebook	DELL	745	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	DC Cable
2	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 -0.50	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

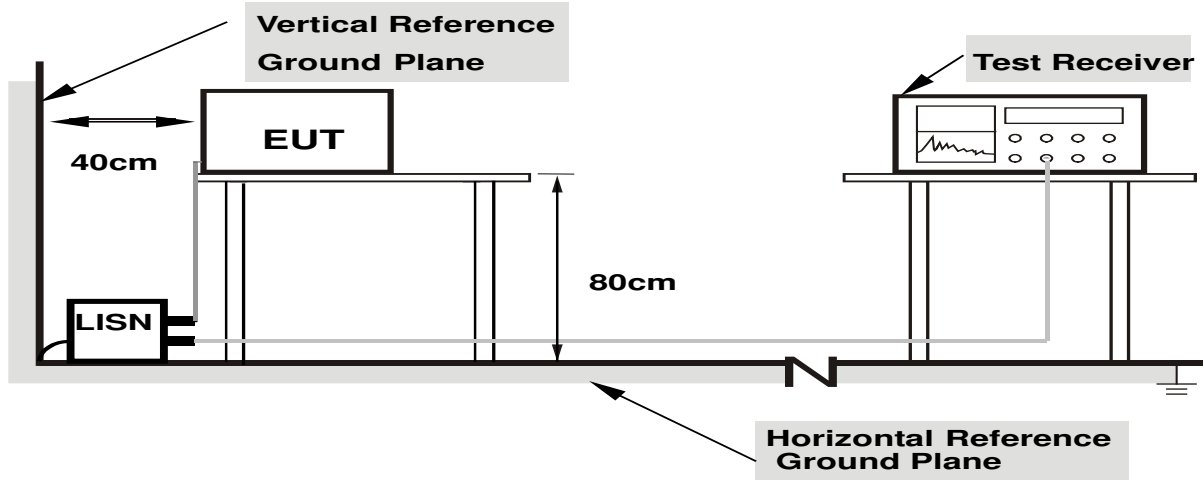
4.1.2 TEST PROCEDURE

- 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

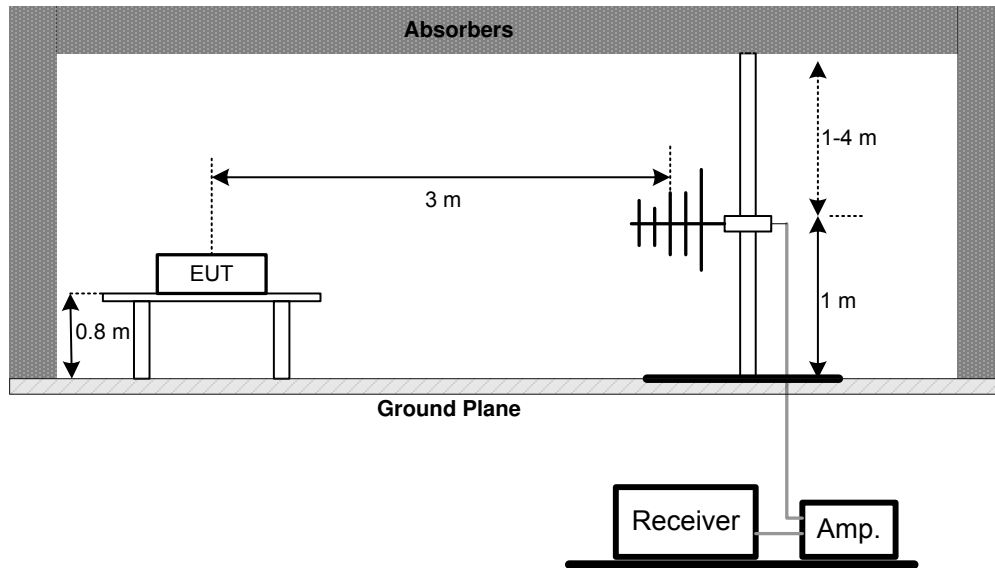
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 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 0.8m 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. 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)
- h. 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)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

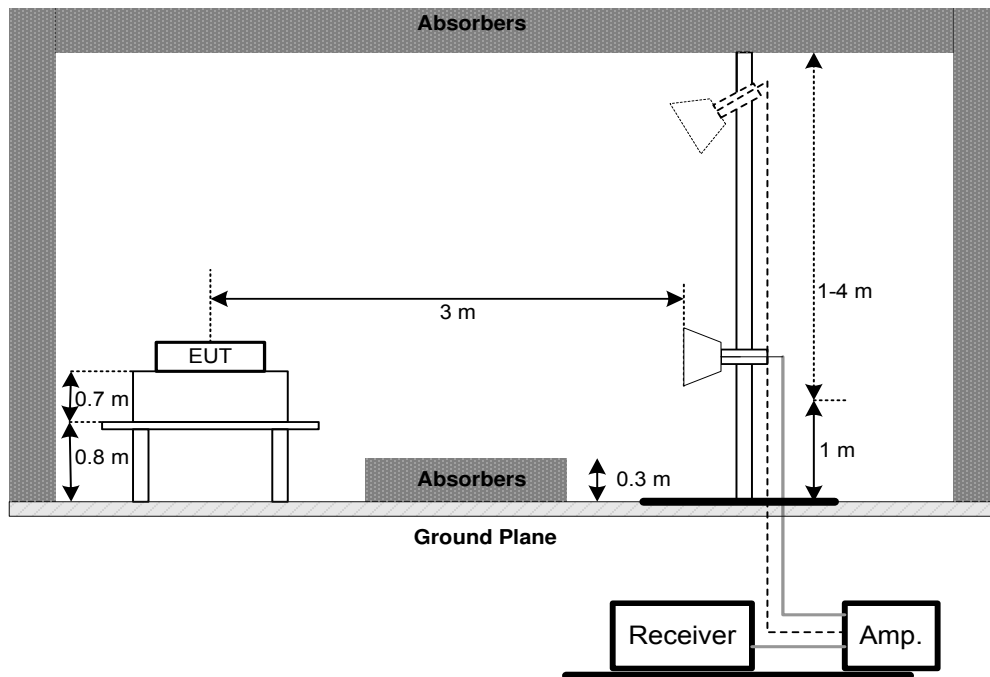
No deviation

4.2.4 TEST SETUP

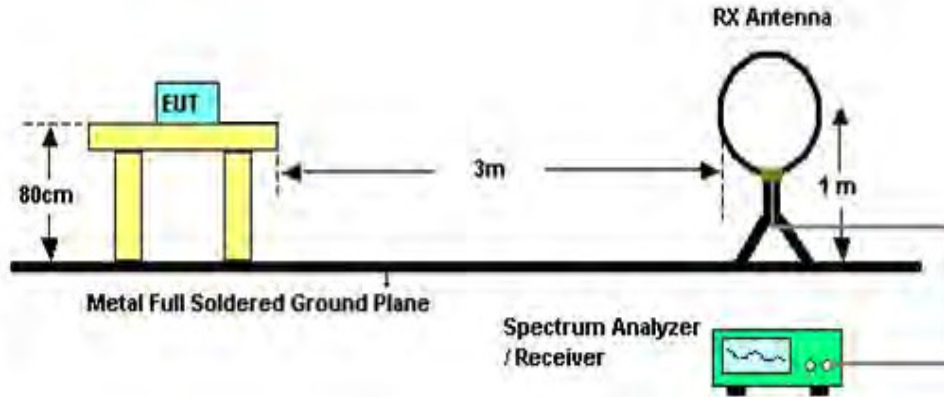
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

5.1.1 TEST PROCEDURE

- 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

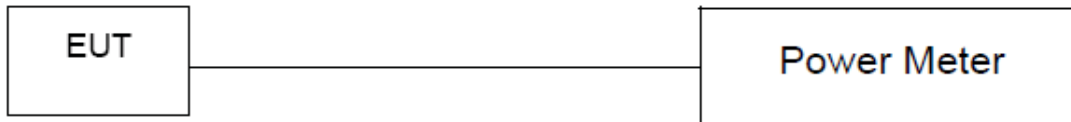
6.1.1 TEST PROCEDURE

- 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 and FCC KDB 662911 D01 Multiple Transmitter Output.

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.

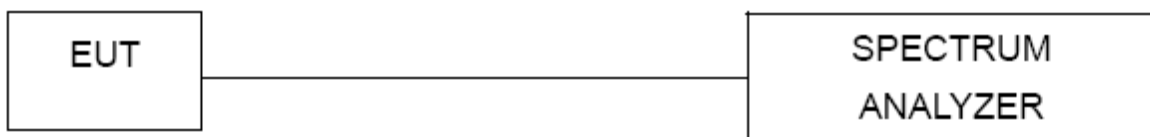
7.1.1 TEST PROCEDURE

- 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	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
2	LISN	EMCO	3816/2	52765	Mar. 27, 2017
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 27, 2017
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 27, 2017
5	Cable	emci	RG223(9KHz-30 MHz)(5m)	N/A	Mar. 10, 2017
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	Schwarzbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 04, 2017
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 26, 2017
5	Controller	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Antenna	ETS	3115	00075789	Mar. 27, 2017
9	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2017
10	Test Cable	emci	EMC104-SM-SM-10000(1GHz-26.5 GHz)	C-68	Jun. 26, 2017
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 27, 2017
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	EMI Test Receiver	R&S	ESCI	100895	Mar. 27, 2017
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2017

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Apr. 26, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Apr. 26, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

10. EUT TEST PHOTO**Conducted Measurement Photos**

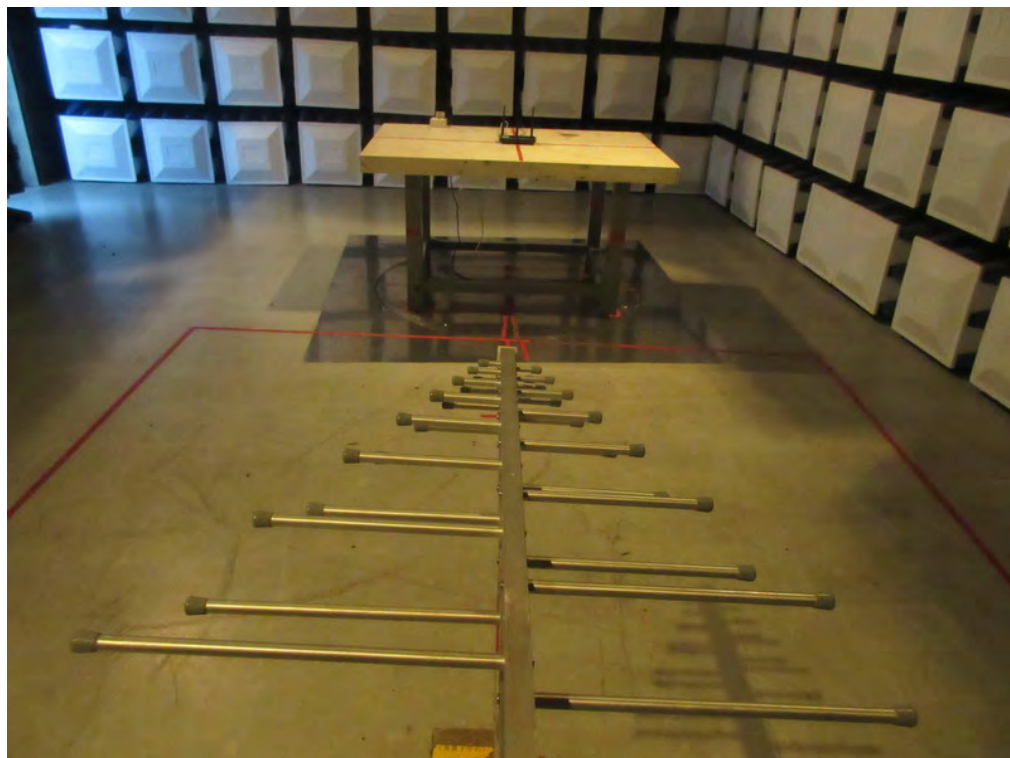
Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



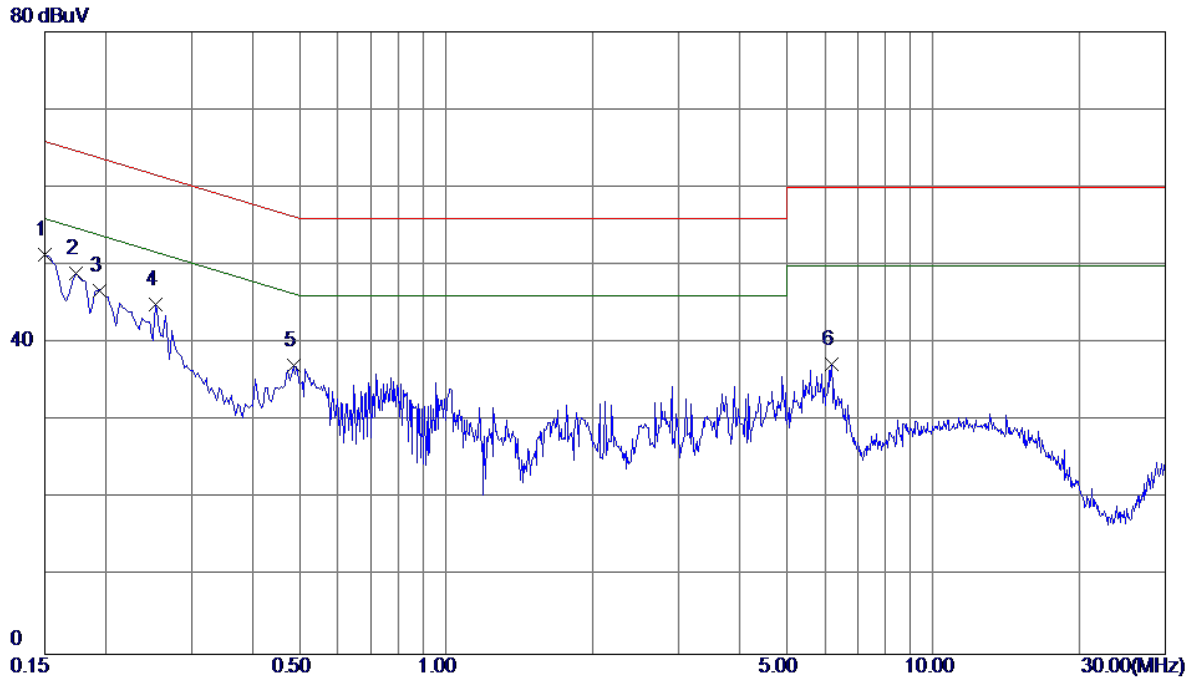
Radiated Measurement Photos
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

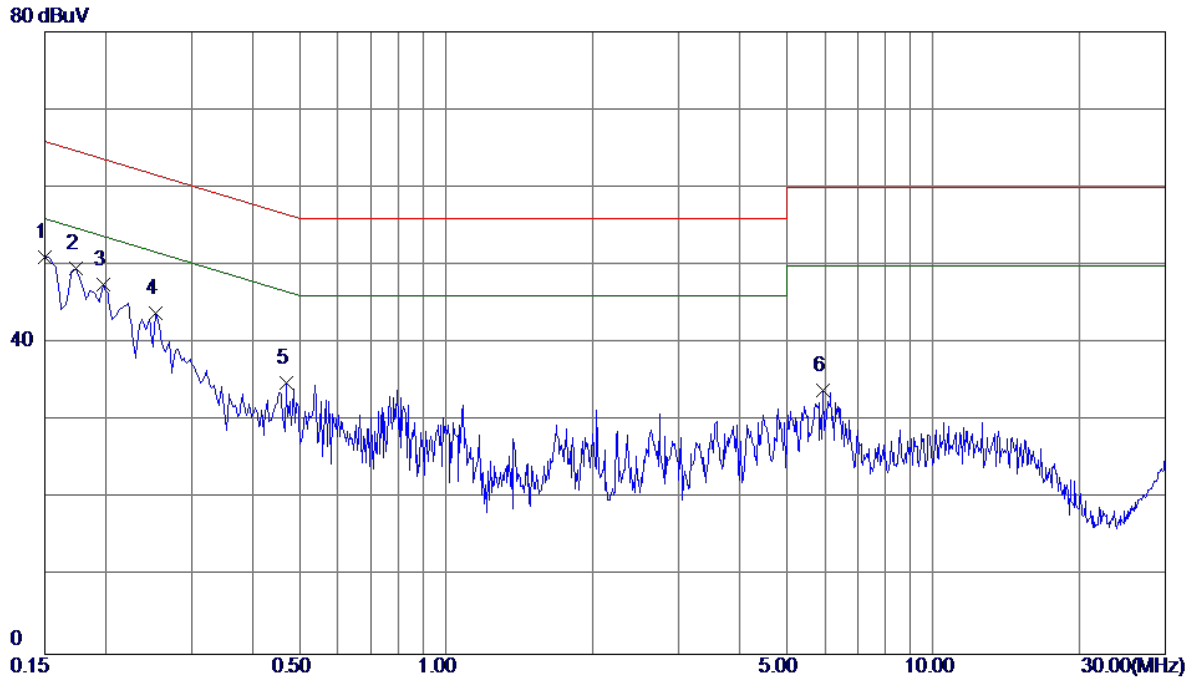
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	41.81	9.52	51.33	66.00	-14.67	Peak	
2	0.1740	39.48	9.52	49.00	64.77	-15.77	Peak	
3	0.1945	37.21	9.53	46.74	63.84	-17.10	Peak	
4	0.2540	35.46	9.53	44.99	61.63	-16.64	Peak	
5	0.4860	27.49	9.63	37.12	56.24	-19.12	Peak	
6	6.1820	27.15	10.08	37.23	60.00	-22.77	Peak	

Test Mode : Normal Link

Neutral

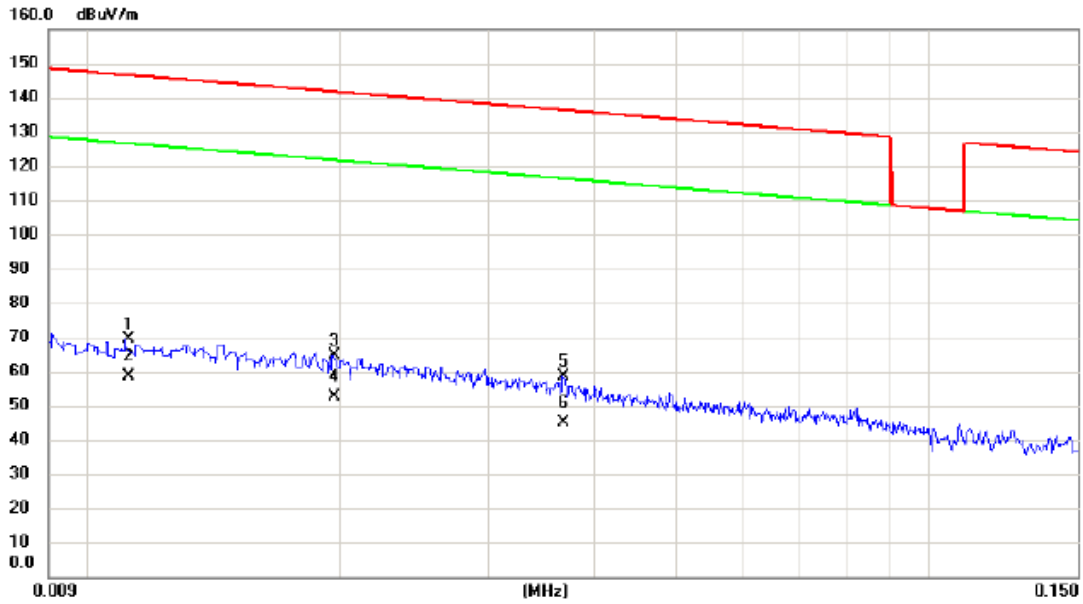


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	41.53	9.52	51.05	66.00	-14.95	Peak	
2	0.1740	40.14	9.44	49.58	64.77	-15.19	Peak	
3	0.1980	38.05	9.52	47.57	63.69	-16.12	Peak	
4	0.2540	34.27	9.53	43.80	61.63	-17.83	Peak	
5	0.4700	25.38	9.44	34.82	56.51	-21.69	Peak	
6	5.9580	23.99	9.97	33.96	60.00	-26.04	Peak	

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

Test Mode: TX B MODE CHANNEL 01

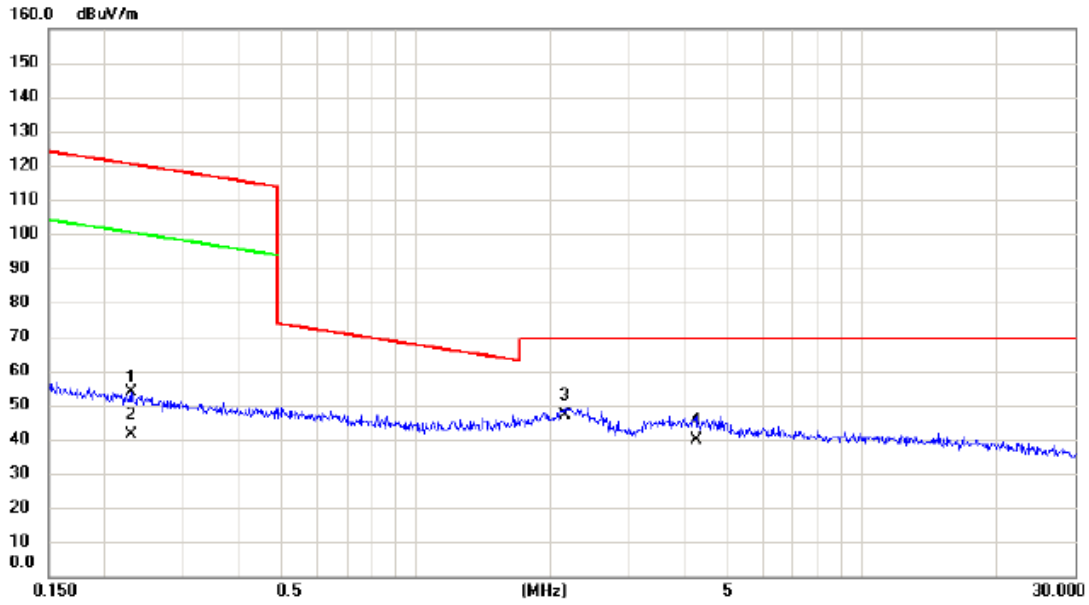
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0112	45.35	24.05	69.40	146.62	-77.22	peak	
2	*	0.0112	34.50	24.05	58.55	126.62	-68.07	AVG	
3		0.0197	41.18	23.54	64.72	141.72	-77.00	peak	
4		0.0197	29.00	23.54	52.54	121.72	-69.18	AVG	
5		0.0368	37.24	21.45	58.69	136.29	-77.60	peak	
6		0.0368	23.50	21.45	44.95	116.29	-71.34	AVG	

Test Mode: TX B MODE CHANNEL 01

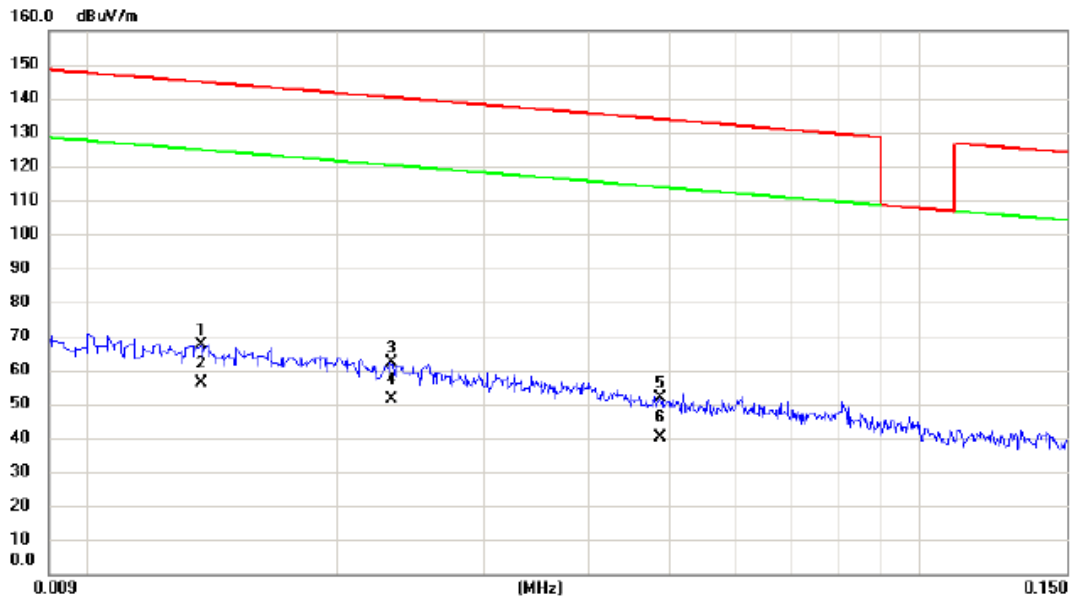
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2304	35.24	18.67	53.91	120.36	-66.45	peak	
2		0.2304	22.70	18.67	41.37	100.36	-58.99	AVG	
3	*	2.1552	29.40	17.71	47.11	69.54	-22.43	QP	
4		4.2466	21.40	18.24	39.64	69.54	-29.90	QP	

Test Mode: TX B MODE CHANNEL 01

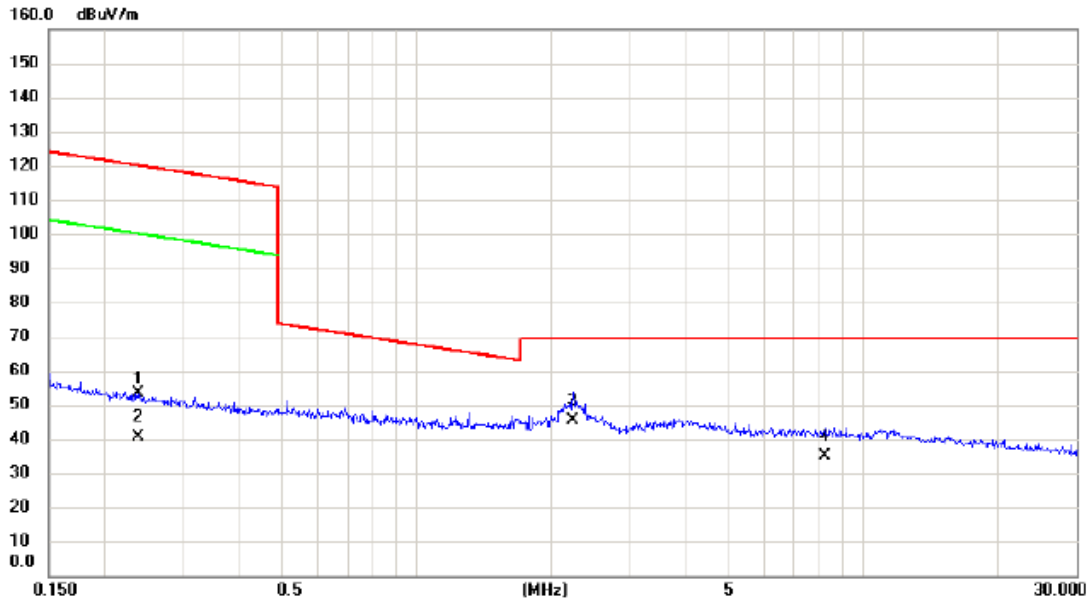
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0137	43.59	23.90	67.49	144.87	-77.38	peak	
2	*	0.0137	32.50	23.90	56.40	124.87	-68.47	AVG	
3		0.0232	39.23	23.13	62.36	140.30	-77.94	peak	
4		0.0232	28.20	23.13	51.33	120.30	-68.97	AVG	
5		0.0487	31.68	19.98	51.66	133.85	-82.19	peak	
6		0.0487	20.10	19.98	40.08	113.85	-73.77	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 90°

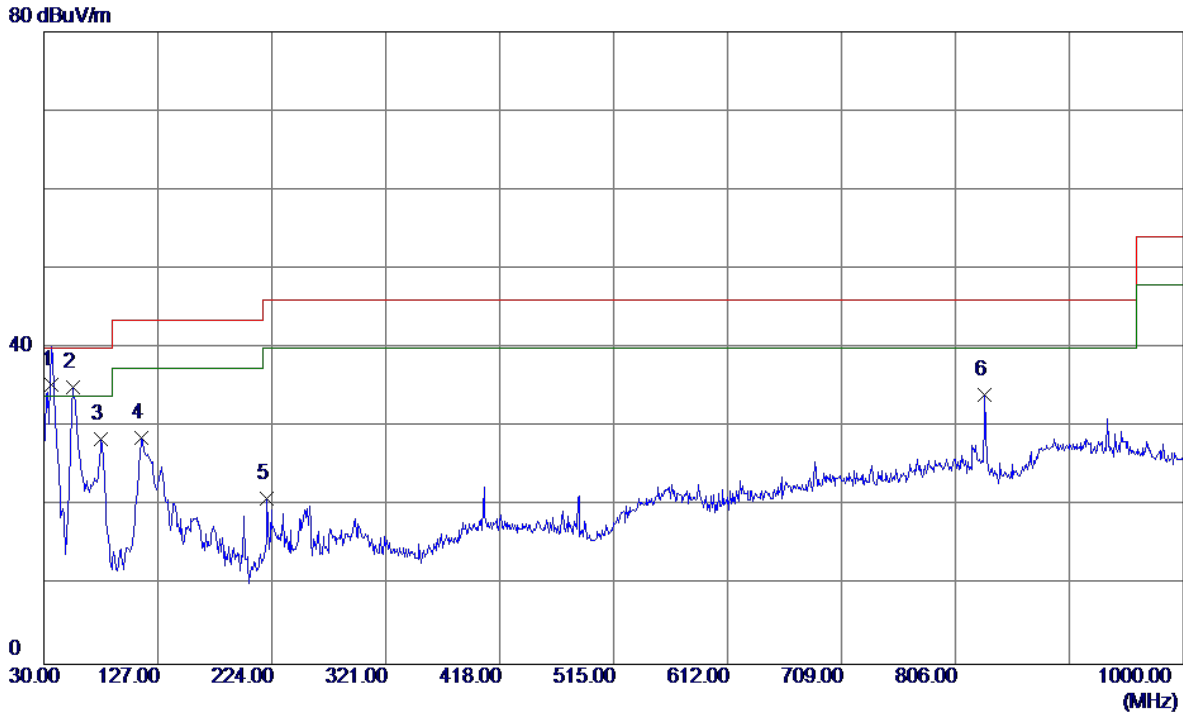


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2391	34.70	18.66	53.36	120.03	-66.67	peak	
2		0.2391	21.80	18.66	40.46	100.03	-59.57	AVG	
3	*	2.2367	28.00	17.60	45.60	69.54	-23.94	QP	
4		8.2351	19.00	16.15	35.15	69.54	-34.39	QP	

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

Test Mode: TX B MODE CHANNEL 01

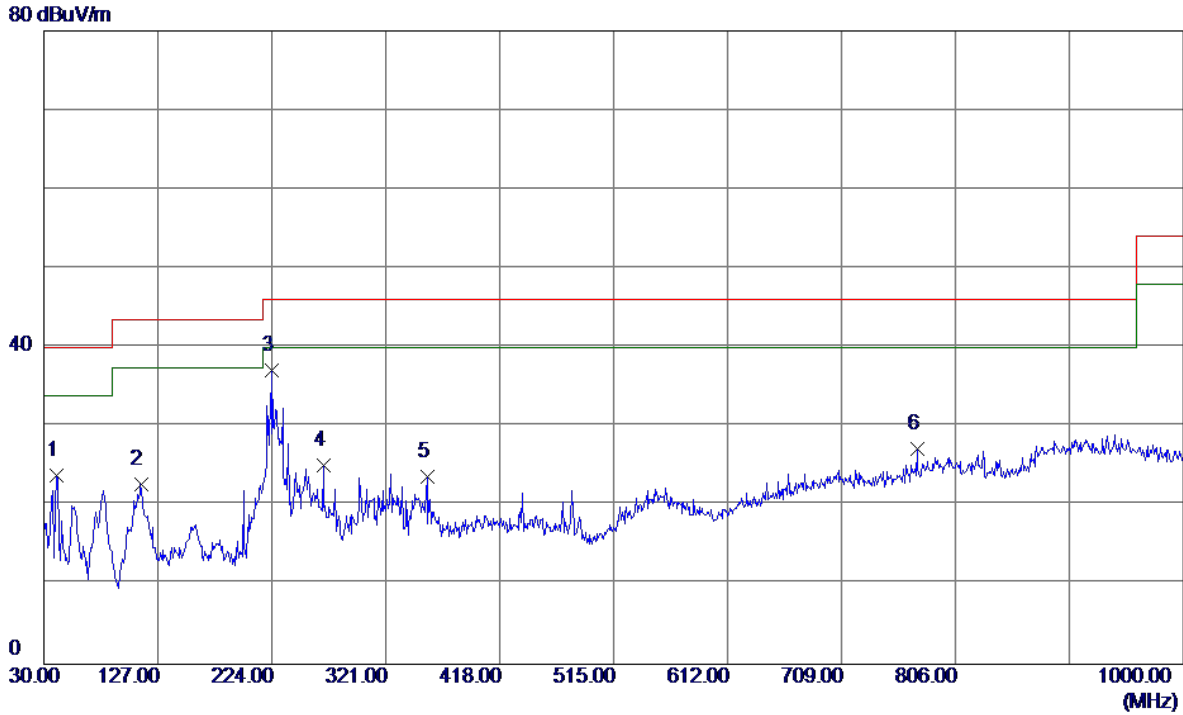
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	36.7900	49.21	-13.85	35.36	40.00	-4.64	QP	
2	54.7350	48.43	-13.41	35.02	40.00	-4.98	Peak	
3	78.9850	44.51	-16.09	28.42	40.00	-11.58	Peak	
4	113.4200	42.88	-14.23	28.65	43.50	-14.85	Peak	
5	220.1200	35.35	-14.39	20.96	46.00	-25.04	Peak	
6	831.2199	35.78	-1.71	34.07	46.00	-11.93	Peak	

Test Mode: TX B MODE CHANNEL 01

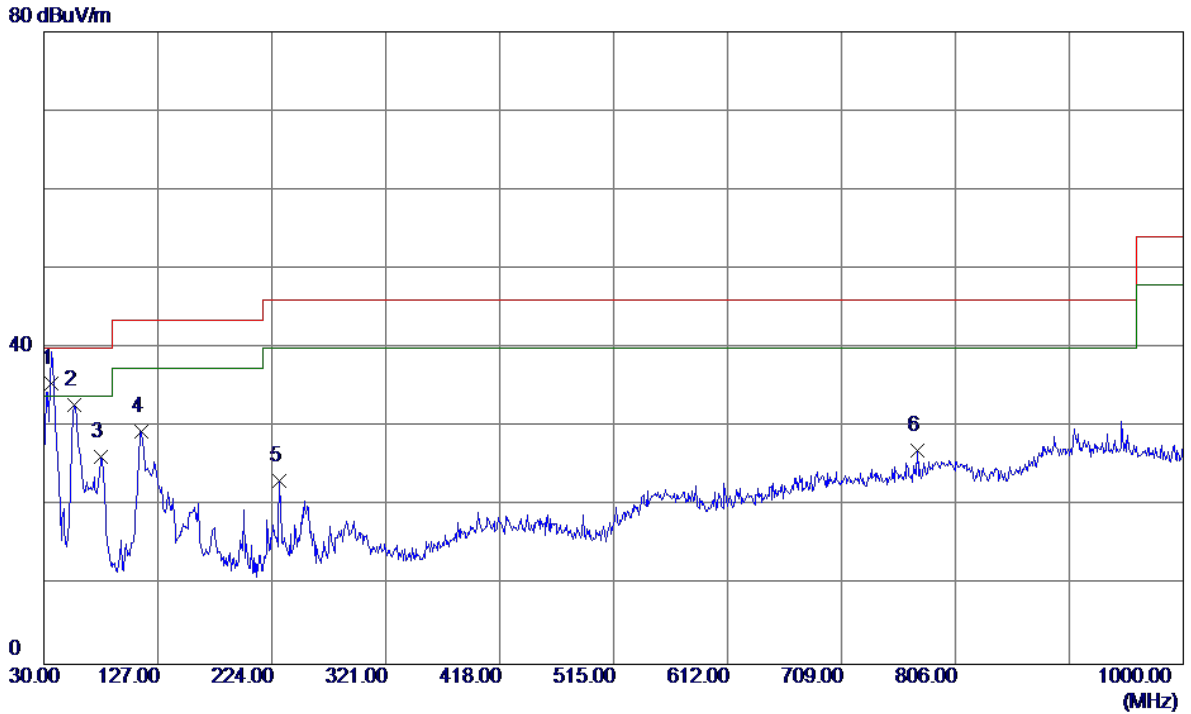
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	41.1550	37.49	-13.62	23.87	40.00	-16.13	Peak	
2	112.4500	37.08	-14.35	22.73	43.50	-20.77	Peak	
3 *	224.4850	51.16	-14.01	37.15	46.00	-8.85	Peak	
4	268.1350	38.90	-13.81	25.09	46.00	-20.91	Peak	
5	356.4050	34.89	-11.19	23.70	46.00	-22.30	Peak	
6	773.5050	29.15	-1.90	27.25	46.00	-18.75	Peak	

Test Mode: TX B MODE CHANNEL 06

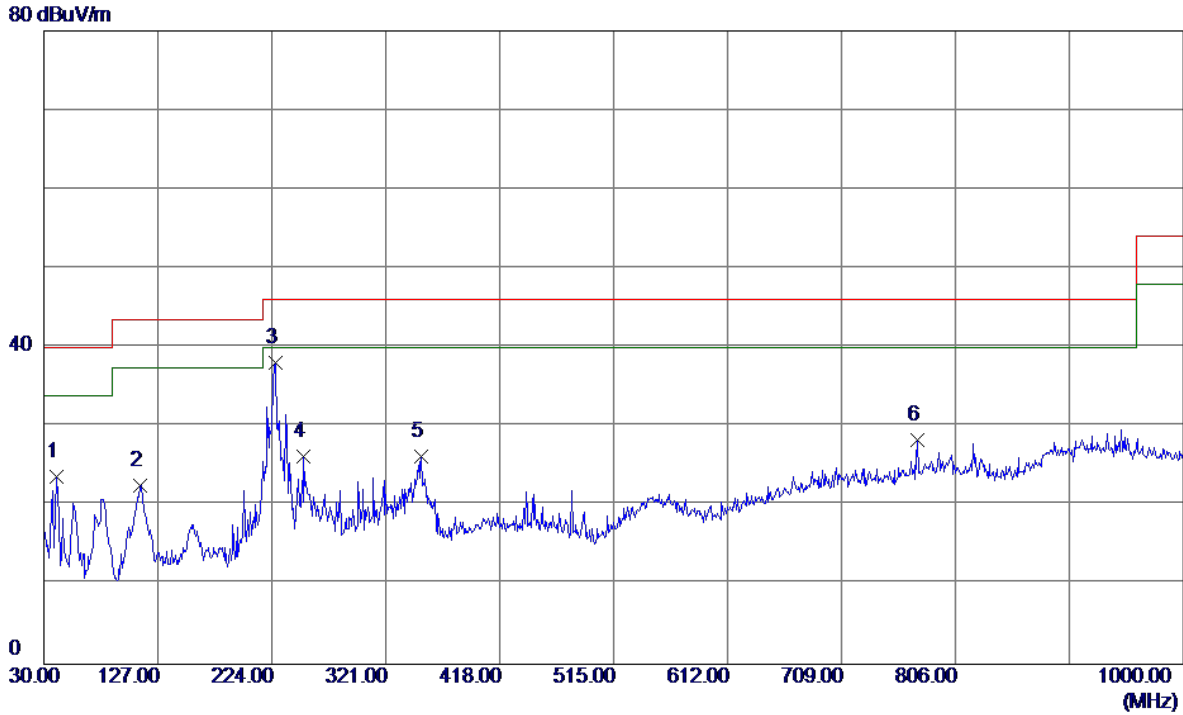
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	36.7900	49.32	-13.85	35.47	40.00	-4.53	QP	
2	56.1900	46.05	-13.26	32.79	40.00	-7.21	Peak	
3	78.5000	42.45	-16.14	26.31	40.00	-13.69	Peak	
4	113.4200	43.68	-14.23	29.45	43.50	-14.05	Peak	
5	230.7900	36.73	-13.57	23.16	46.00	-22.84	Peak	
6	773.5050	28.88	-1.90	26.98	46.00	-19.02	Peak	

Test Mode: TX B MODE CHANNEL 06

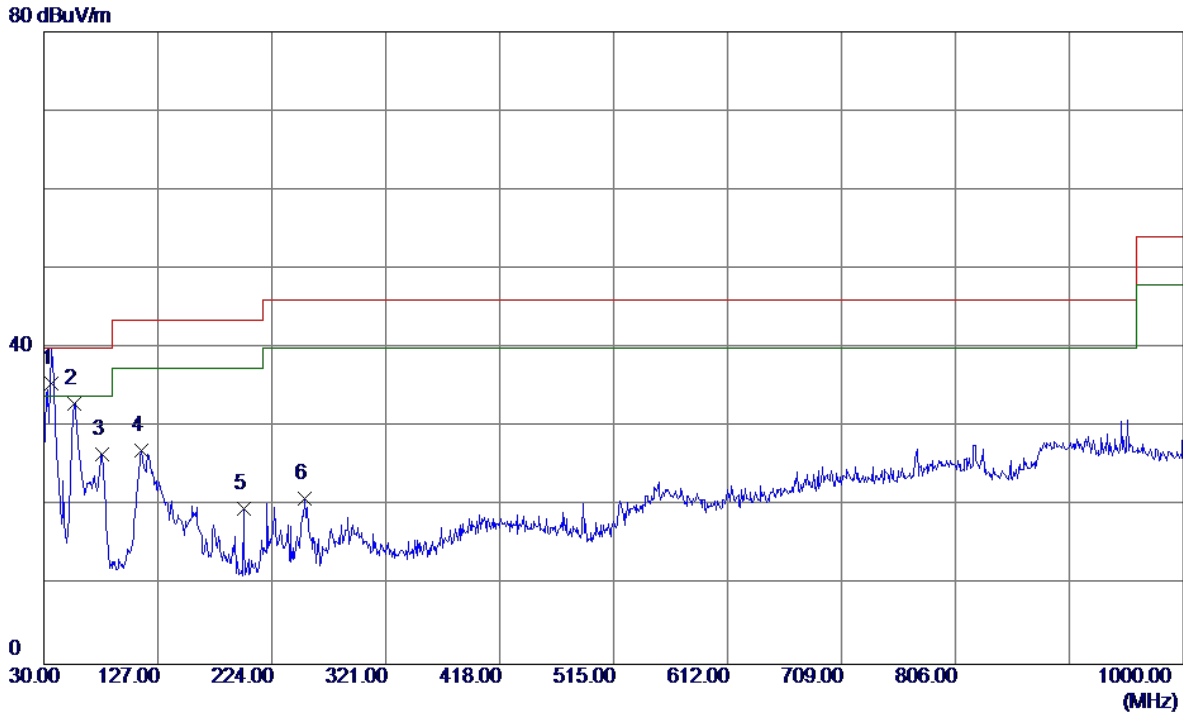
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	41.1550	37.28	-13.62	23.66	40.00	-16.34	Peak	
2	111.9650	37.04	-14.41	22.63	43.50	-20.87	Peak	
3 *	226.9100	51.81	-13.80	38.01	46.00	-7.99	Peak	
4	251.1600	40.66	-14.40	26.26	46.00	-19.74	Peak	
5	351.5550	37.82	-11.51	26.31	46.00	-19.69	Peak	
6	773.5050	30.28	-1.90	28.38	46.00	-17.62	Peak	

Test Mode: TX B MODE CHANNEL 11

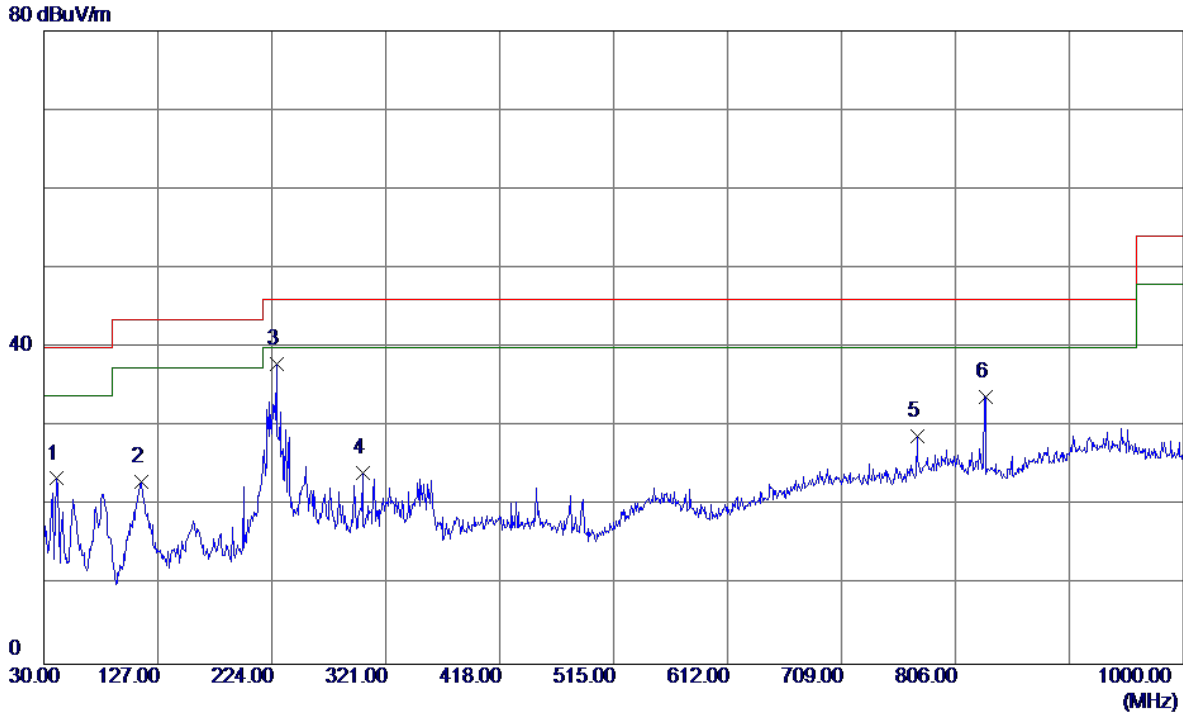
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	36.7900	49.33	-13.85	35.48	40.00	-4.52	QP	
2	55.7050	46.27	-13.26	33.01	40.00	-6.99	Peak	
3	79.4700	42.63	-16.04	26.59	40.00	-13.41	Peak	
4	112.9350	41.33	-14.29	27.04	43.50	-16.46	Peak	
5	200.2350	34.21	-14.55	19.66	43.50	-23.84	Peak	
6	252.1300	35.31	-14.41	20.90	46.00	-25.10	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

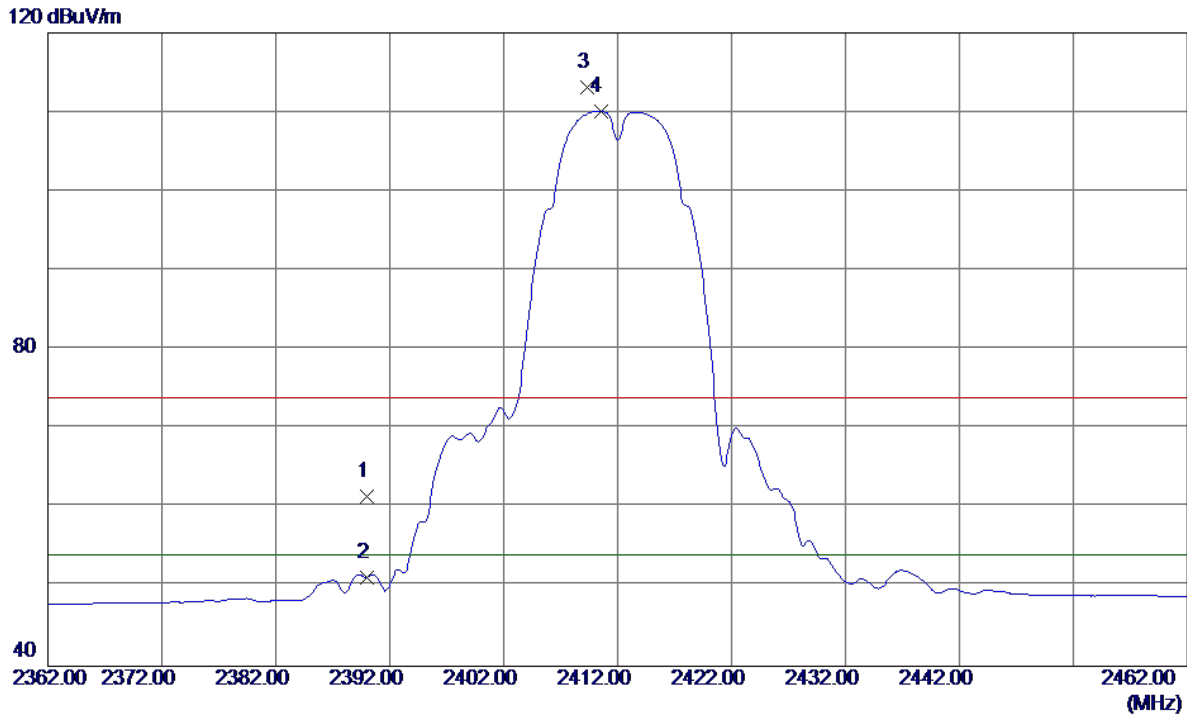


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	41.1550	37.06	-13.62	23.44	40.00	-16.56	Peak	
2	113.4200	37.28	-14.23	23.05	43.50	-20.45	Peak	
3 *	227.8800	51.71	-13.72	37.99	46.00	-8.01	Peak	
4	301.1150	34.72	-10.49	24.23	46.00	-21.77	Peak	
5	773.5050	30.69	-1.90	28.79	46.00	-17.21	Peak	
6	831.7050	35.53	-1.73	33.80	46.00	-12.20	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

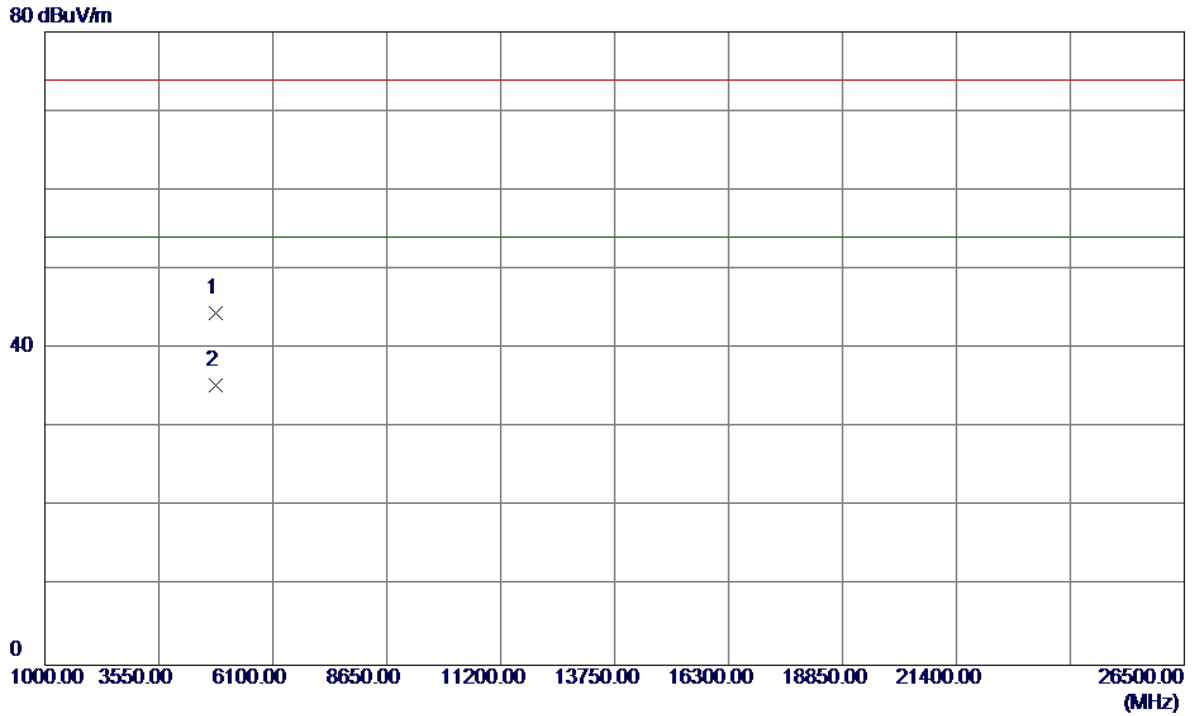
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	27.92	33.51	61.43	74.00	-12.57	Peak	
2	2390.0000	17.76	33.51	51.27	54.00	-2.73	AVG	
3	2409.3000	79.47	33.62	113.09	74.00	39.09	Peak	No Limit
4 *	2410.5000	76.51	33.63	110.14	54.00	56.14	AVG	No Limit

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

Vertical

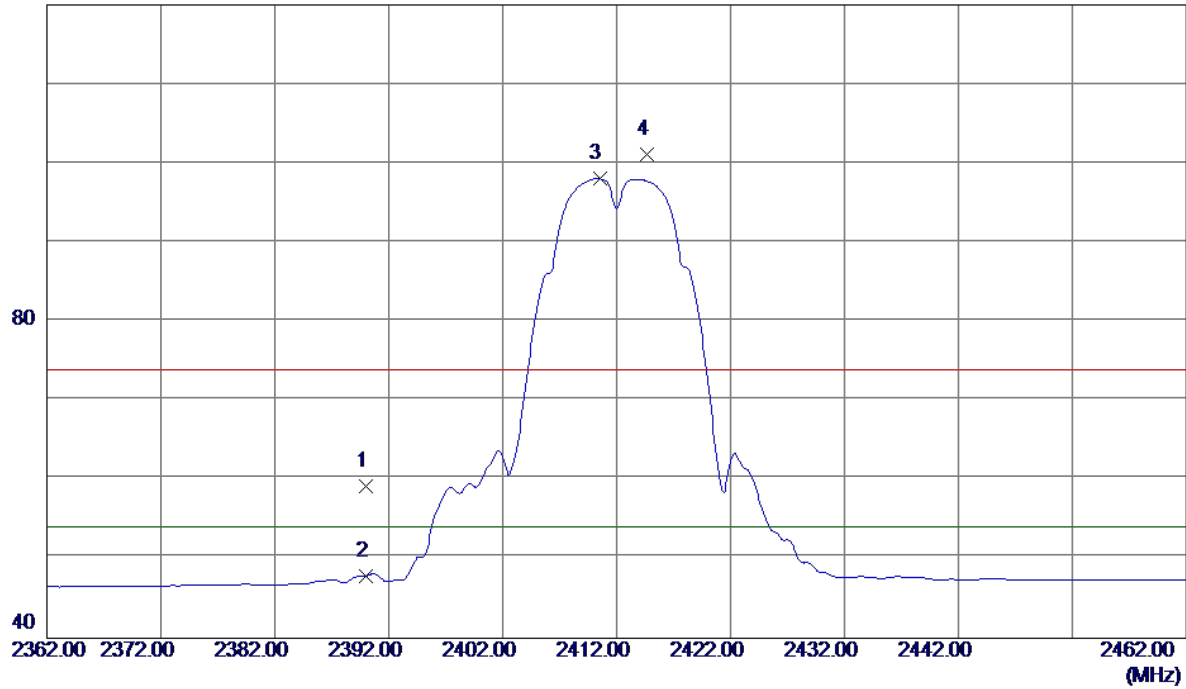


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9100	41.52	3.00	44.52	74.00	-29.48	Peak	
2 *	4823.9800	32.36	3.00	35.36	54.00	-18.64	AVG	

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

Horizontal

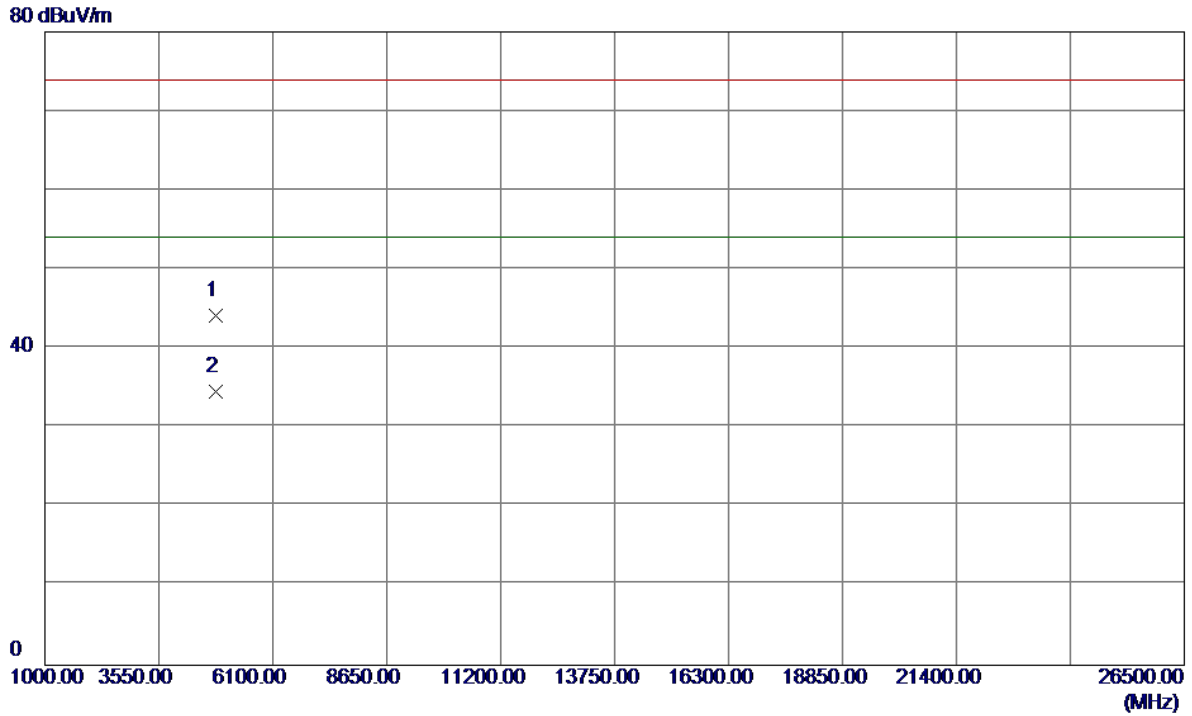
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.62	33.51	59.13	74.00	-14.87	Peak	
2	2390.0000	14.31	33.51	47.82	54.00	-6.18	AVG	
3 *	2410.5000	64.40	33.63	98.03	54.00	44.03	AVG	No Limit
4	2414.7000	67.43	33.65	101.08	74.00	27.08	Peak	No Limit

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

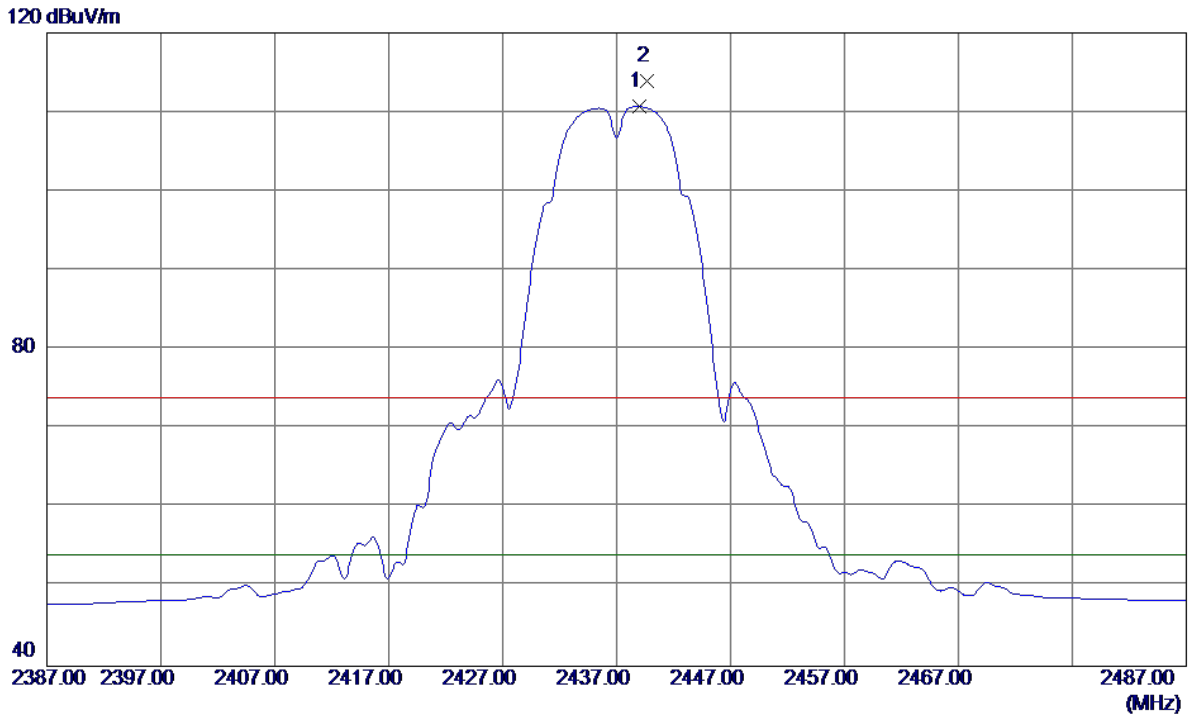
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9100	41.20	3.00	44.20	74.00	-29.80	Peak	
2 *	4824.0600	31.59	3.00	34.59	54.00	-19.41	AVG	

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

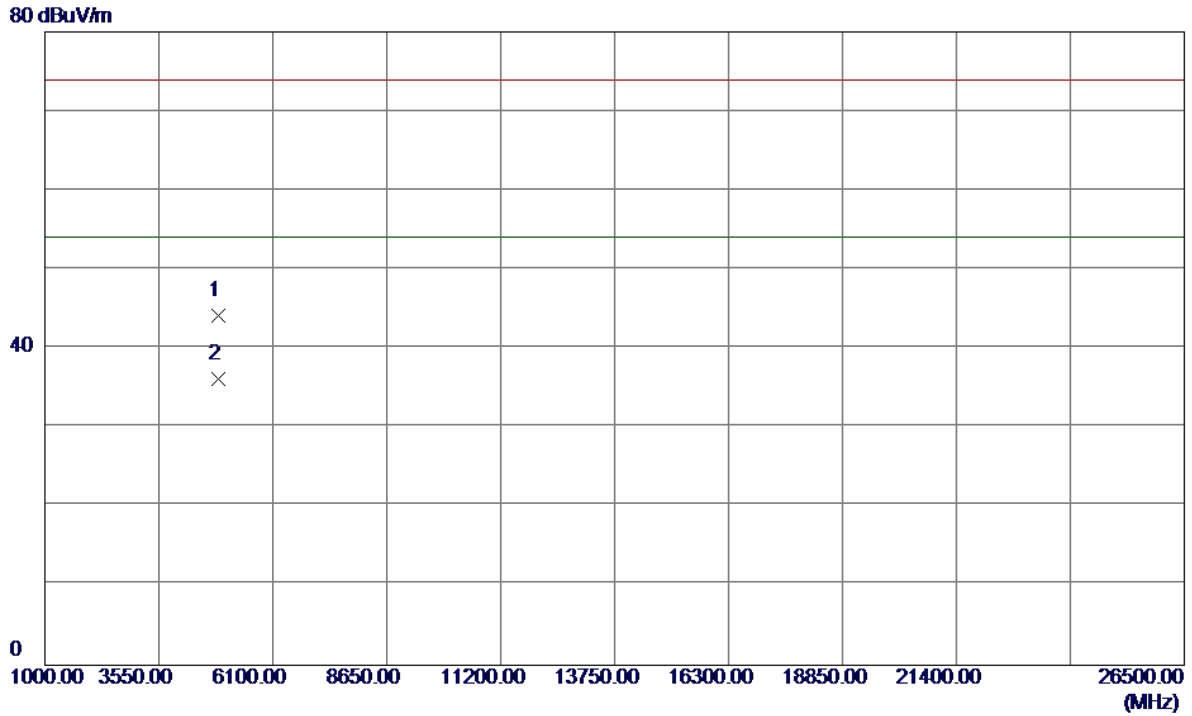
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2439.0000	76.96	33.78	110.74	54.00	56.74	AVG	No Limit
2	2439.7000	80.06	33.79	113.85	74.00	39.85	Peak	No Limit

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

Vertical

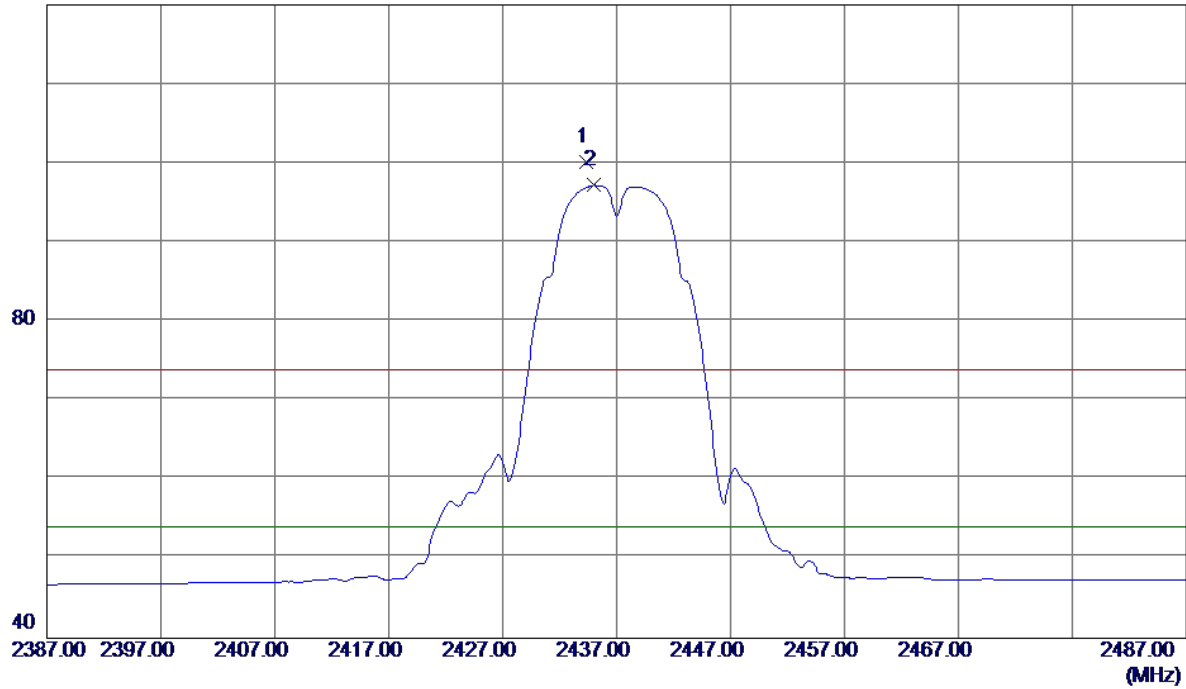


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9200	41.16	3.03	44.19	74.00	-29.81	Peak	
2 *	4873.9800	33.18	3.03	36.21	54.00	-17.79	AVG	

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

Horizontal

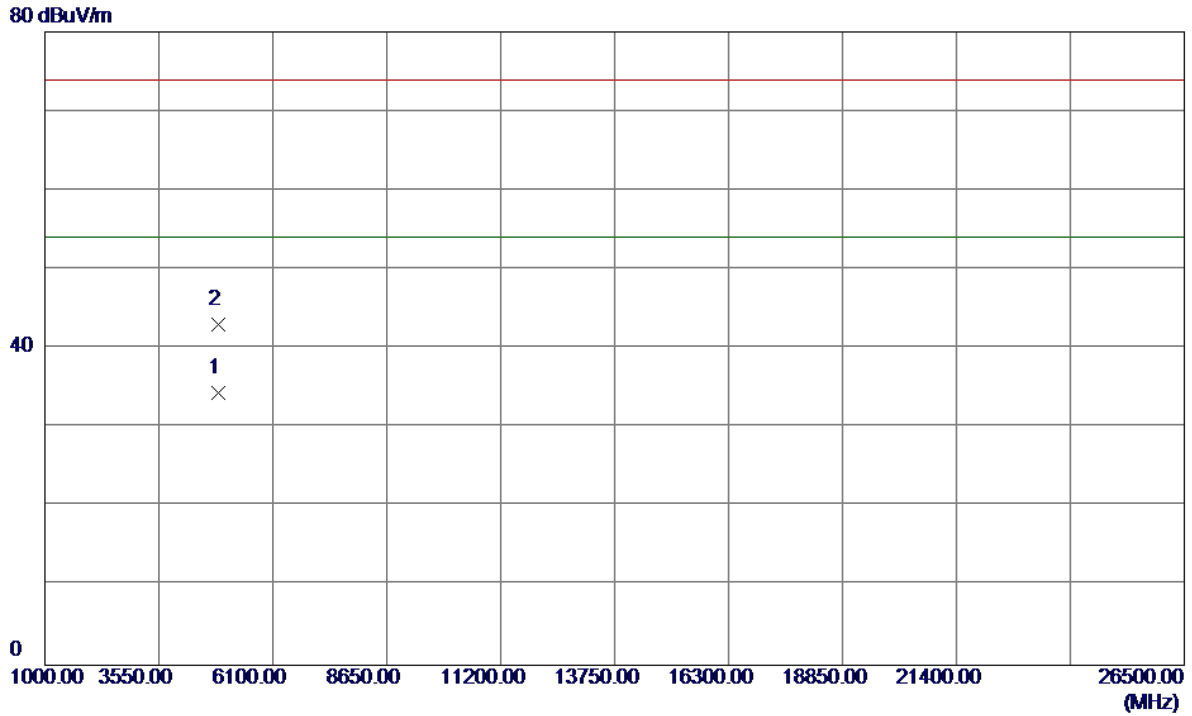
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.3000	66.37	33.76	100.13	74.00	26.13	Peak	No Limit
2 *	2435.0000	63.45	33.76	97.21	54.00	43.21	AVG	No Limit

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

Horizontal

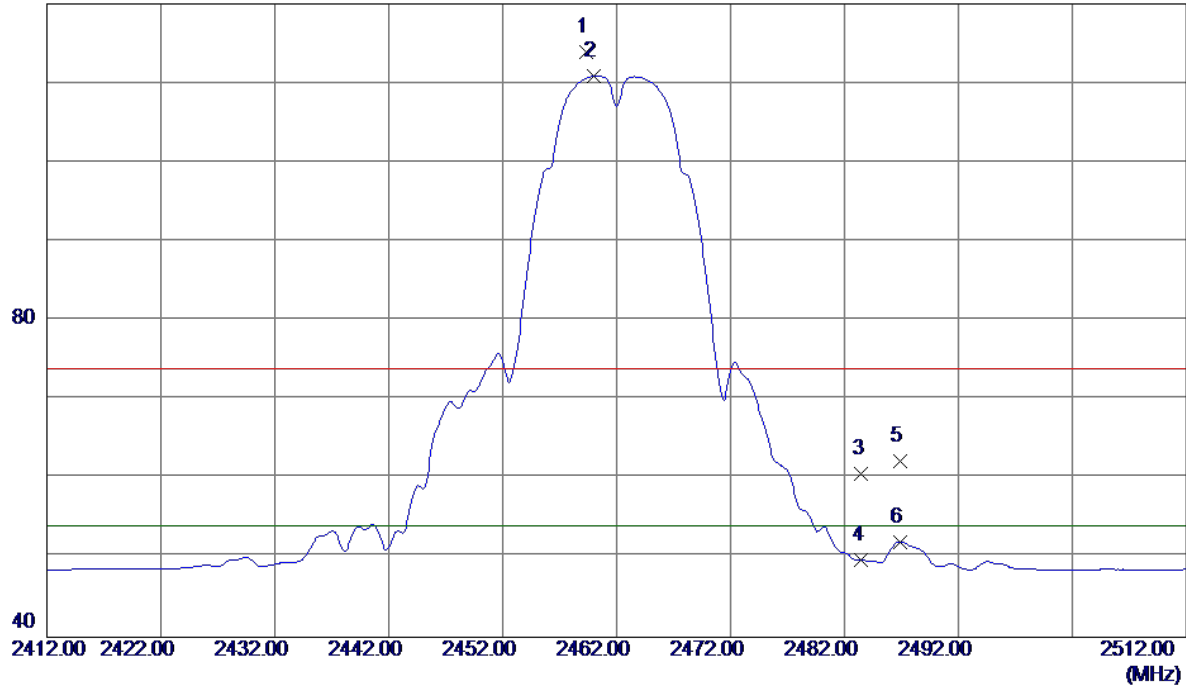


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9200	31.36	3.03	34.39	54.00	-19.61	AVG	
2	4874.0800	40.08	3.03	43.11	74.00	-30.89	Peak	

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

Vertical

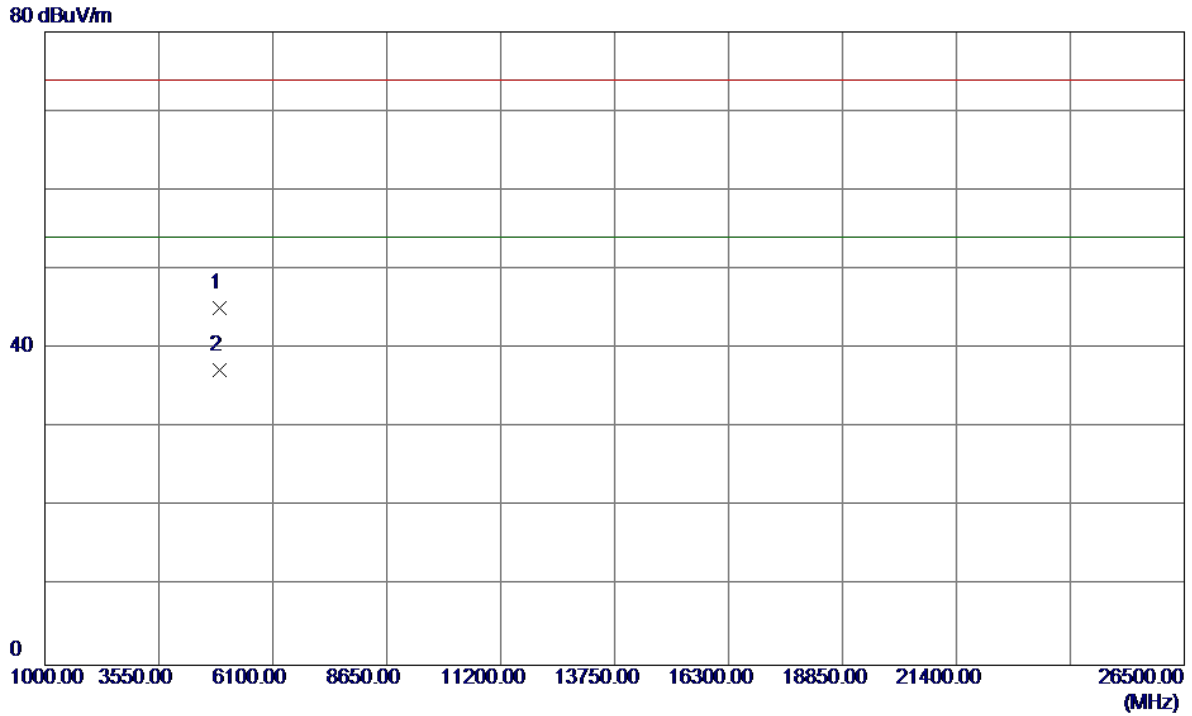
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.3000	79.98	33.90	113.88	74.00	39.88	Peak	No Limit
2 *	2460.0000	77.01	33.90	110.91	54.00	56.91	AVG	No Limit
3	2483.5000	26.63	34.03	60.66	74.00	-13.34	Peak	
4	2483.5000	15.67	34.03	49.70	54.00	-4.30	AVG	
5	2486.9000	28.26	34.05	62.31	74.00	-11.69	Peak	
6	2486.9000	17.99	34.05	52.04	54.00	-1.96	AVG	

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

Vertical

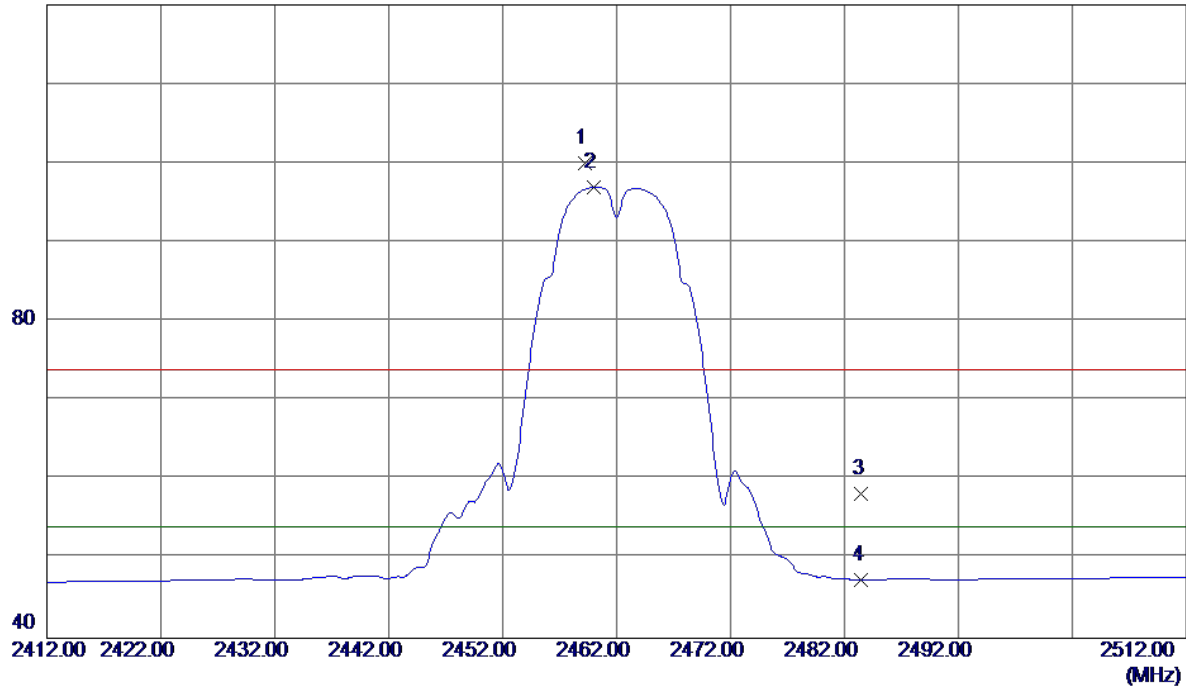


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9300	42.12	3.05	45.17	74.00	-28.83	Peak	
2 *	4923.9600	34.25	3.05	37.30	54.00	-16.70	AVG	

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

Horizontal

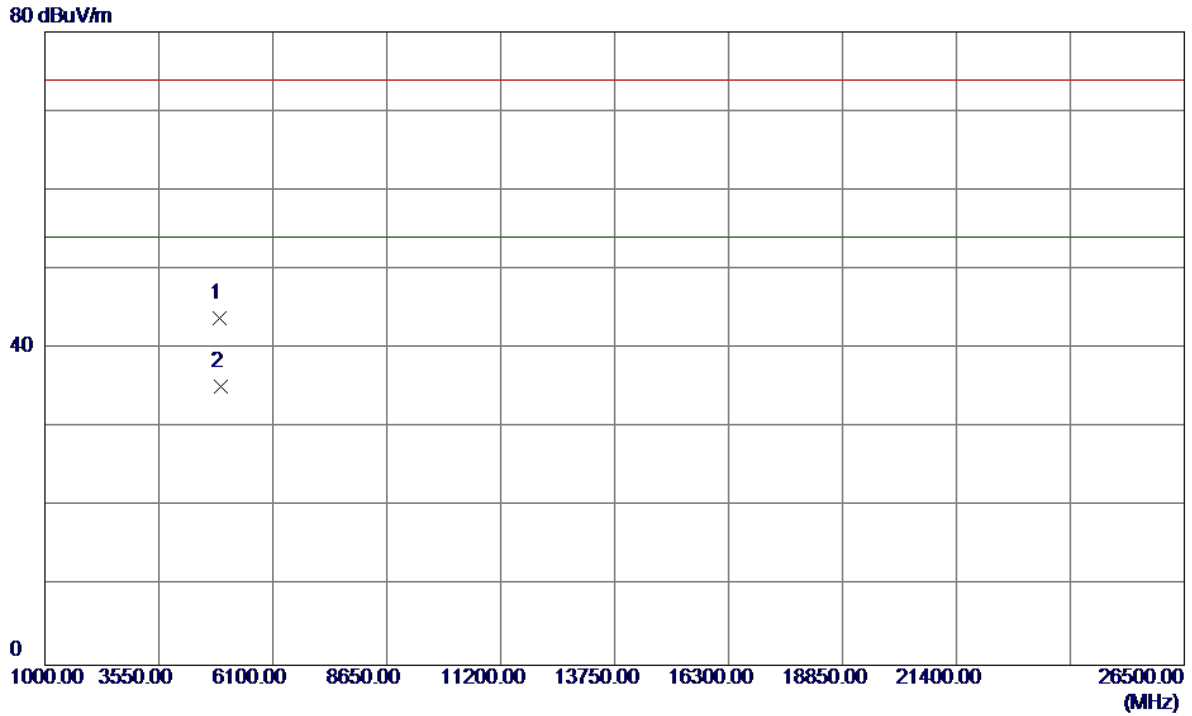
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.2000	66.17	33.89	100.06	74.00	26.06	Peak	No Limit
2 *	2460.0000	63.11	33.90	97.01	54.00	43.01	AVG	No Limit
3	2483.5000	24.21	34.03	58.24	74.00	-15.76	Peak	
4	2483.5000	13.37	34.03	47.40	54.00	-6.60	AVG	

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

Horizontal

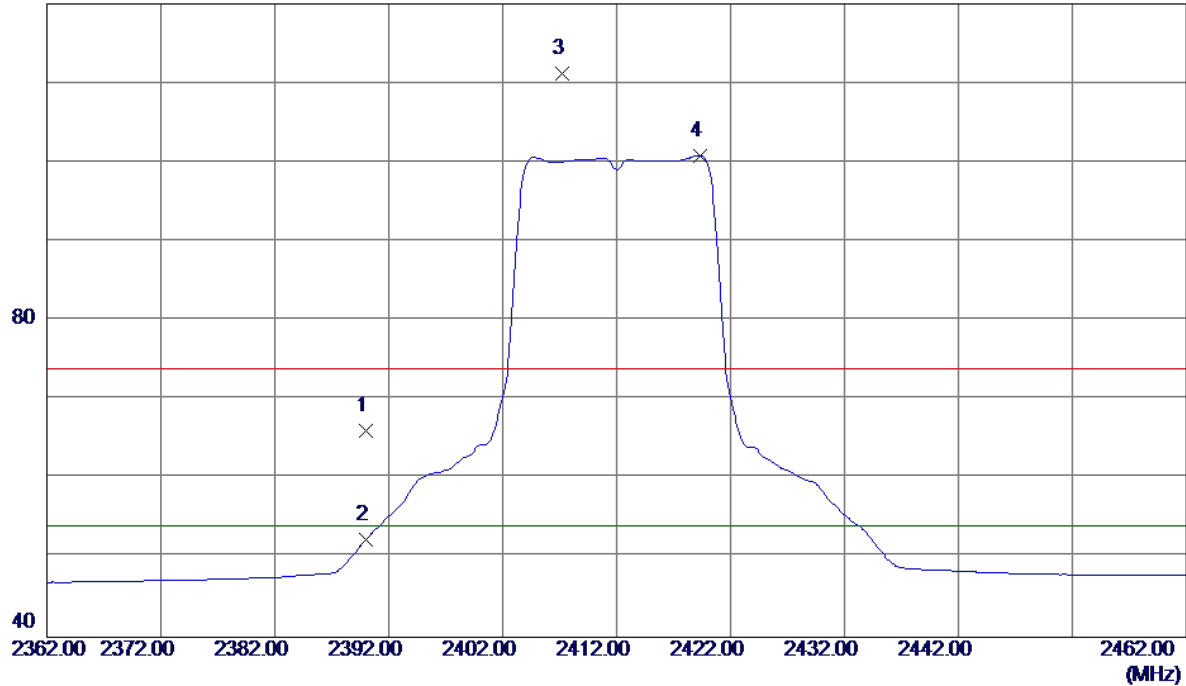


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.4000	40.87	3.05	43.92	74.00	-30.08	Peak	
2 *	4924.5000	32.19	3.05	35.24	54.00	-18.76	AVG	

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

Vertical

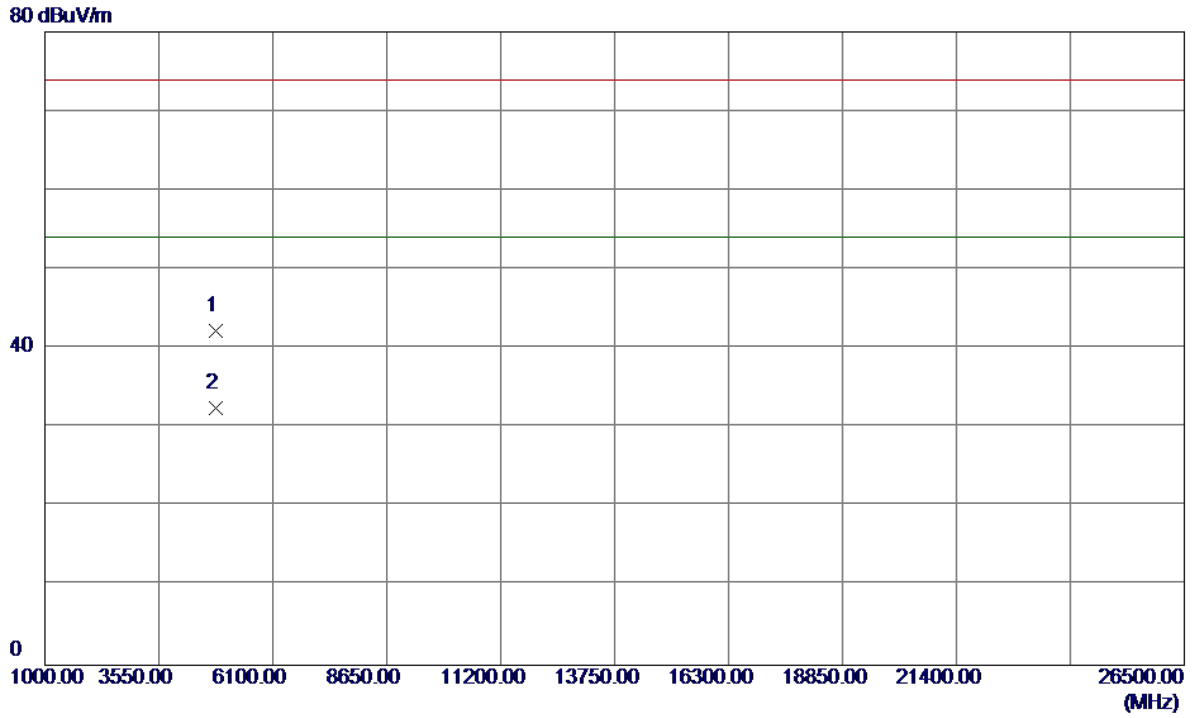
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.59	33.51	66.10	74.00	-7.90	Peak	
2	2390.0000	18.77	33.51	52.28	54.00	-1.72	AVG	
3	2407.2000	77.53	33.61	111.14	74.00	37.14	Peak	No Limit
4 *	2419.3000	67.20	33.67	100.87	54.00	46.87	AVG	No Limit

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

Vertical

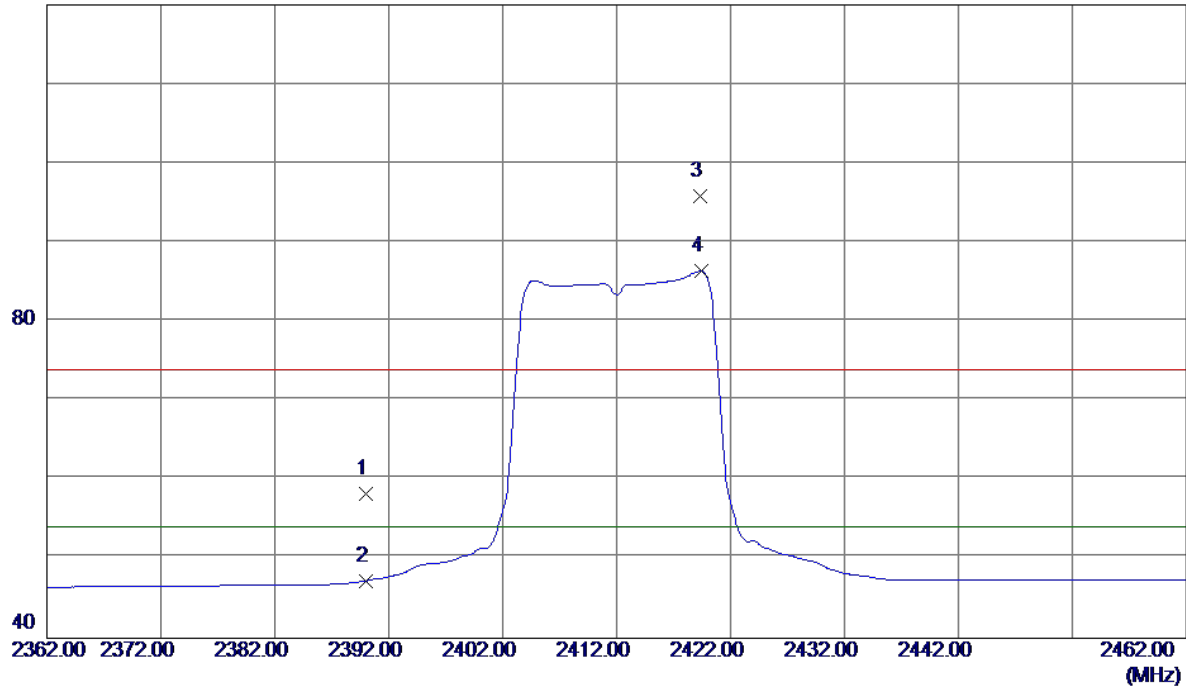


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9100	39.24	3.00	42.24	74.00	-31.76	Peak	
2 *	4823.9800	29.50	3.00	32.50	54.00	-21.50	AVG	

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

Horizontal

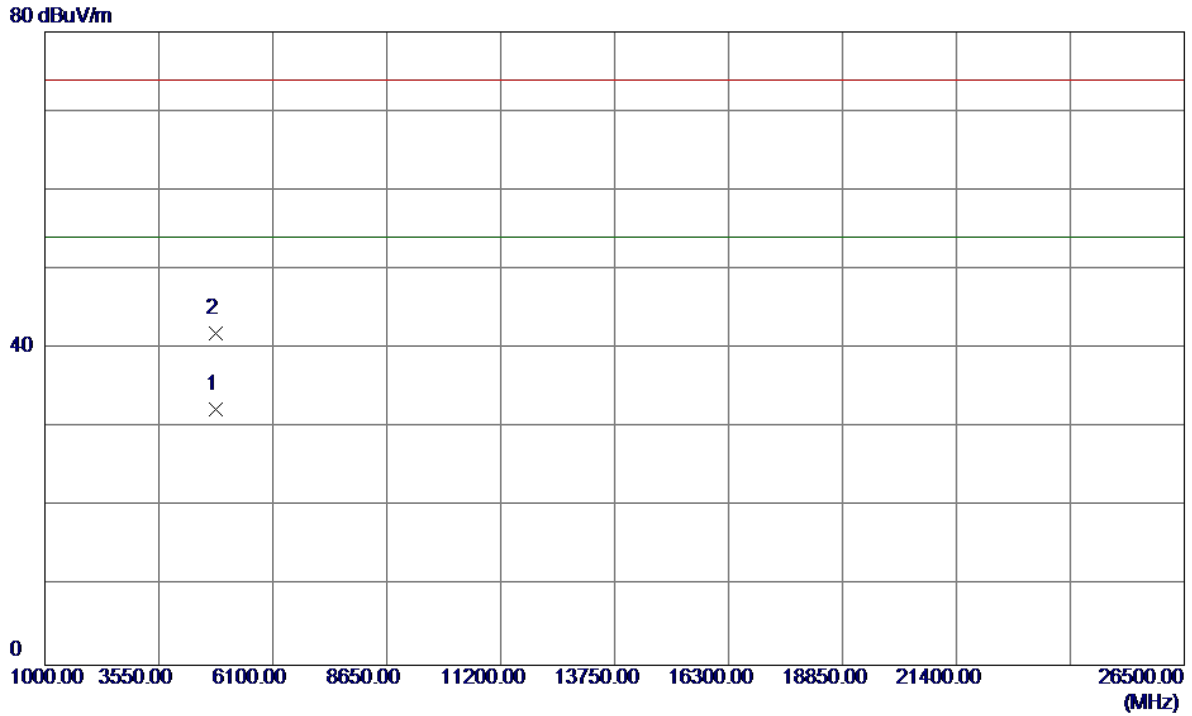
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.73	33.51	58.24	74.00	-15.76	Peak	
2	2390.0000	13.75	33.51	47.26	54.00	-6.74	AVG	
3	2419.3000	62.18	33.67	95.85	74.00	21.85	Peak	No Limit
4 *	2419.4000	52.70	33.68	86.38	54.00	32.38	AVG	No Limit

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

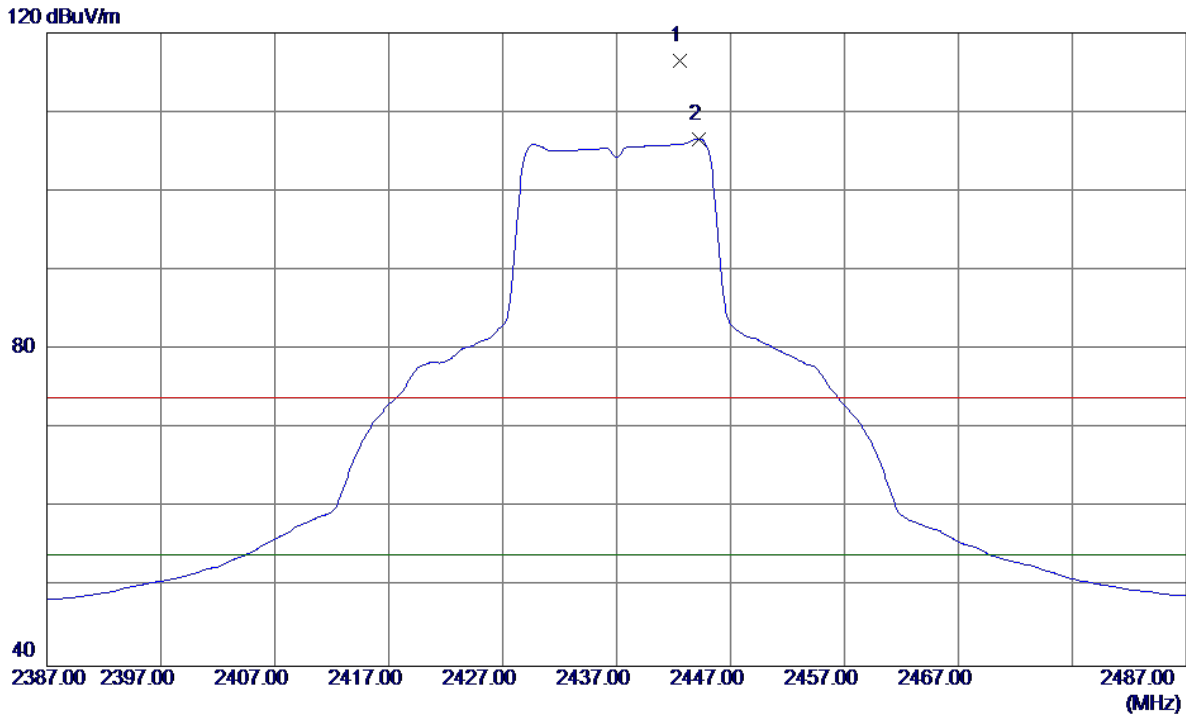
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9600	29.37	3.00	32.37	54.00	-21.63	AVG	
2	4824.0000	38.87	3.00	41.87	74.00	-32.13	Peak	

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

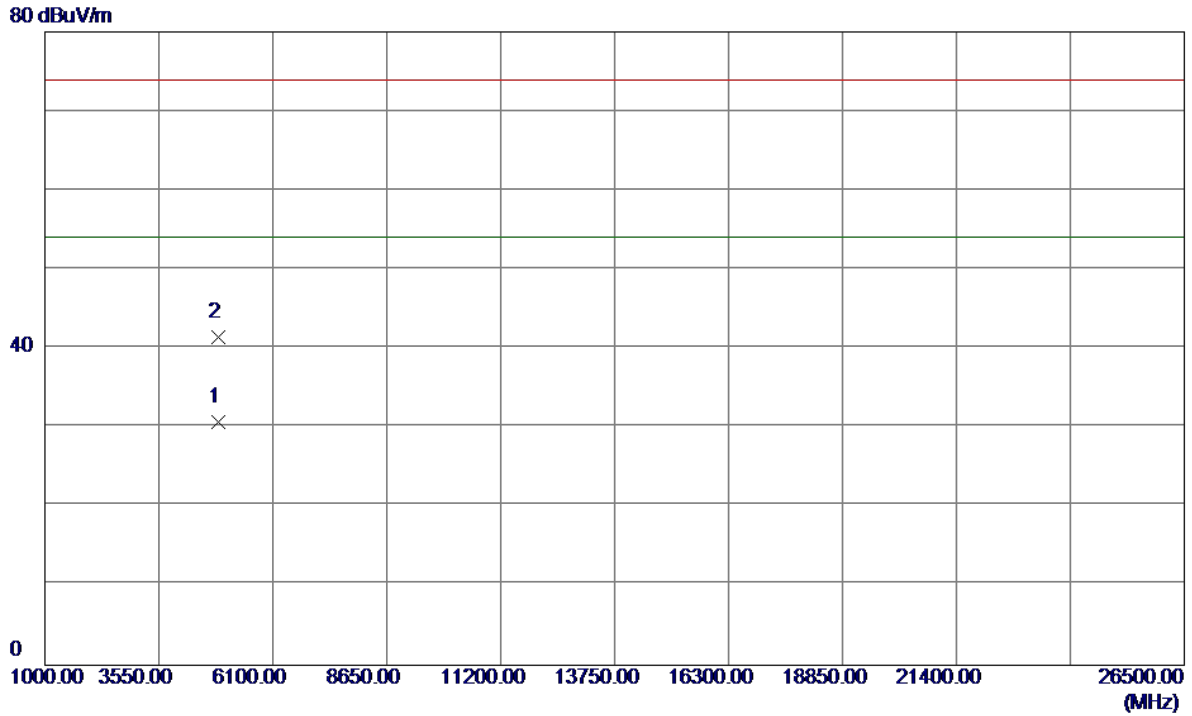
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.6000	82.75	33.80	116.55	74.00	42.55	Peak	No Limit
2 *	2444.2000	72.79	33.81	106.60	54.00	52.60	AVG	No Limit

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

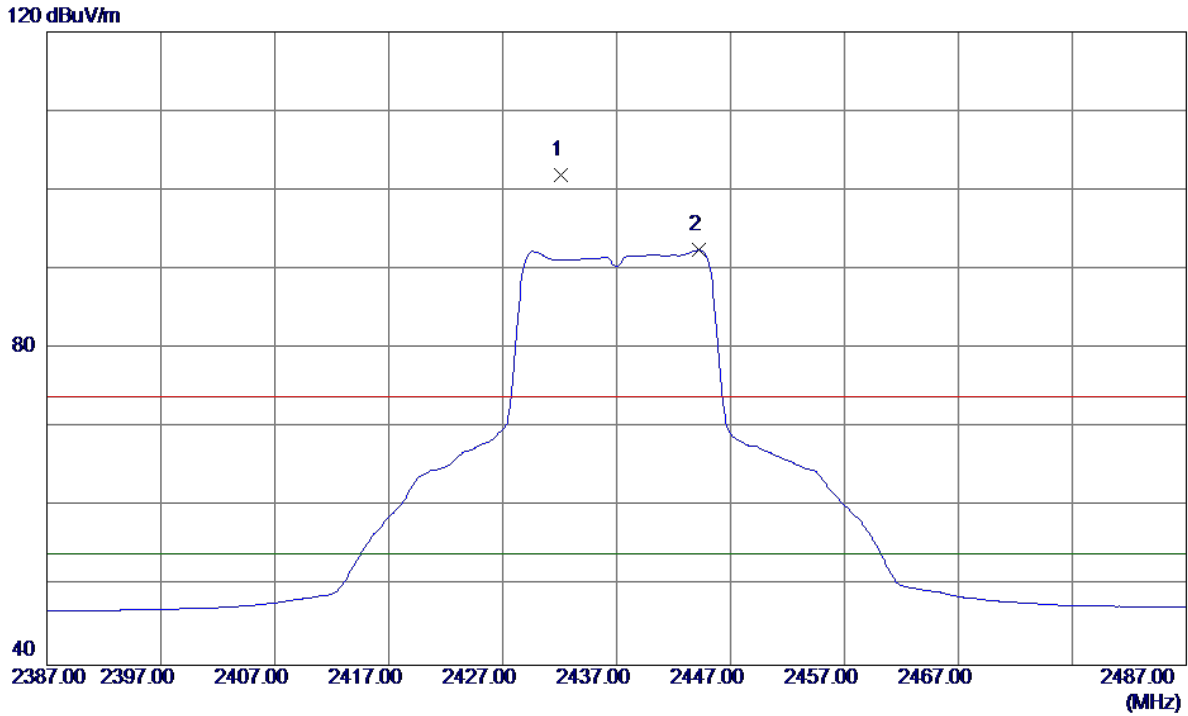
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.1000	27.64	3.03	30.67	54.00	-23.33	AVG	
2	4875.2200	38.40	3.03	41.43	74.00	-32.57	Peak	

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

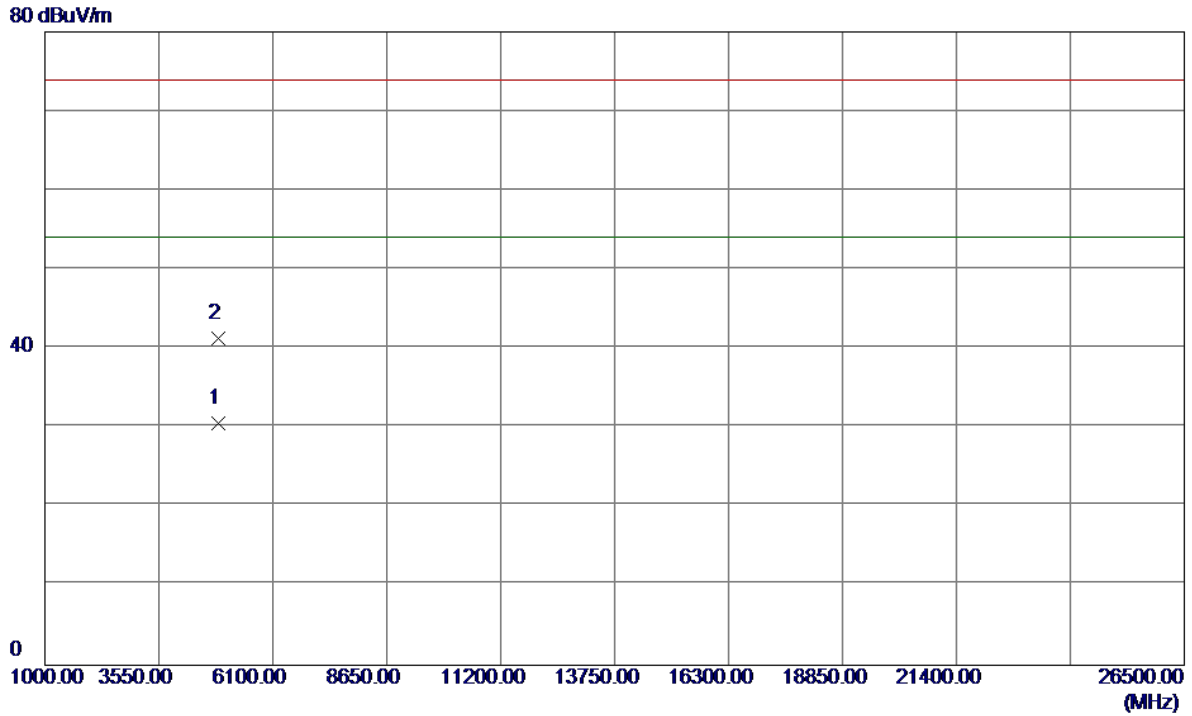
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2432.1000	68.15	33.75	101.90	74.00	27.90	Peak	No Limit
2 *	2444.2000	58.60	33.81	92.41	54.00	38.41	AVG	No Limit

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

Horizontal

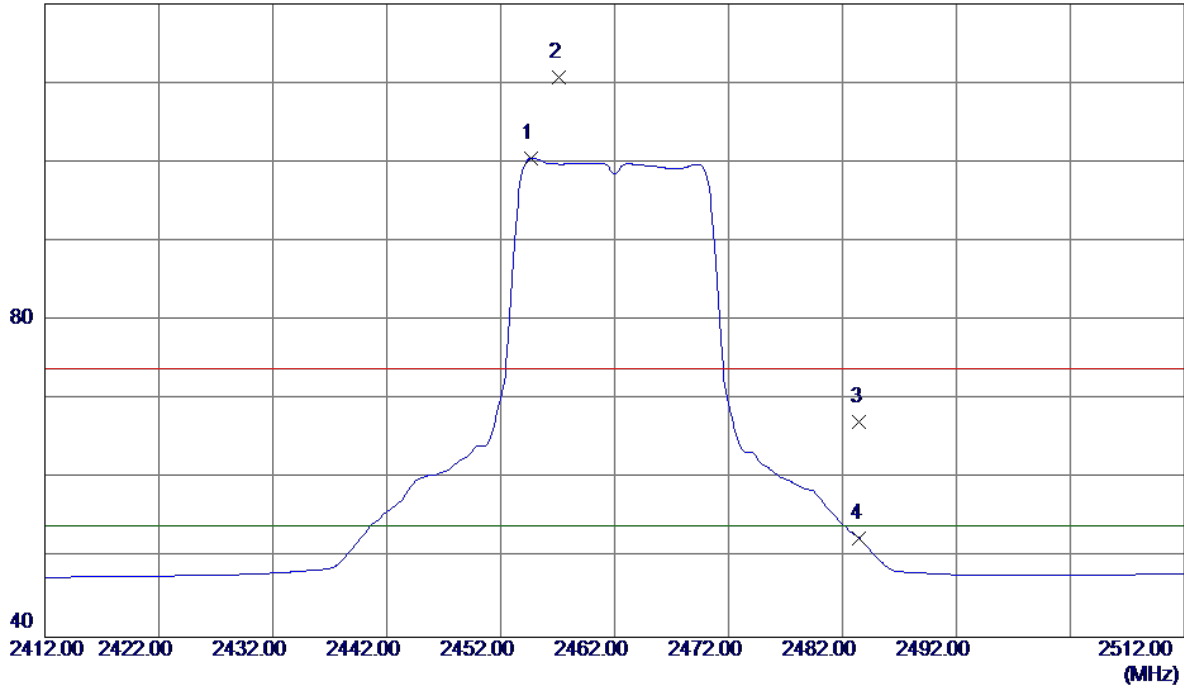


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9600	27.51	3.03	30.54	54.00	-23.46	AVG	
2	4874.0800	38.32	3.03	41.35	74.00	-32.65	Peak	

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

Vertical

120 dBuV/m

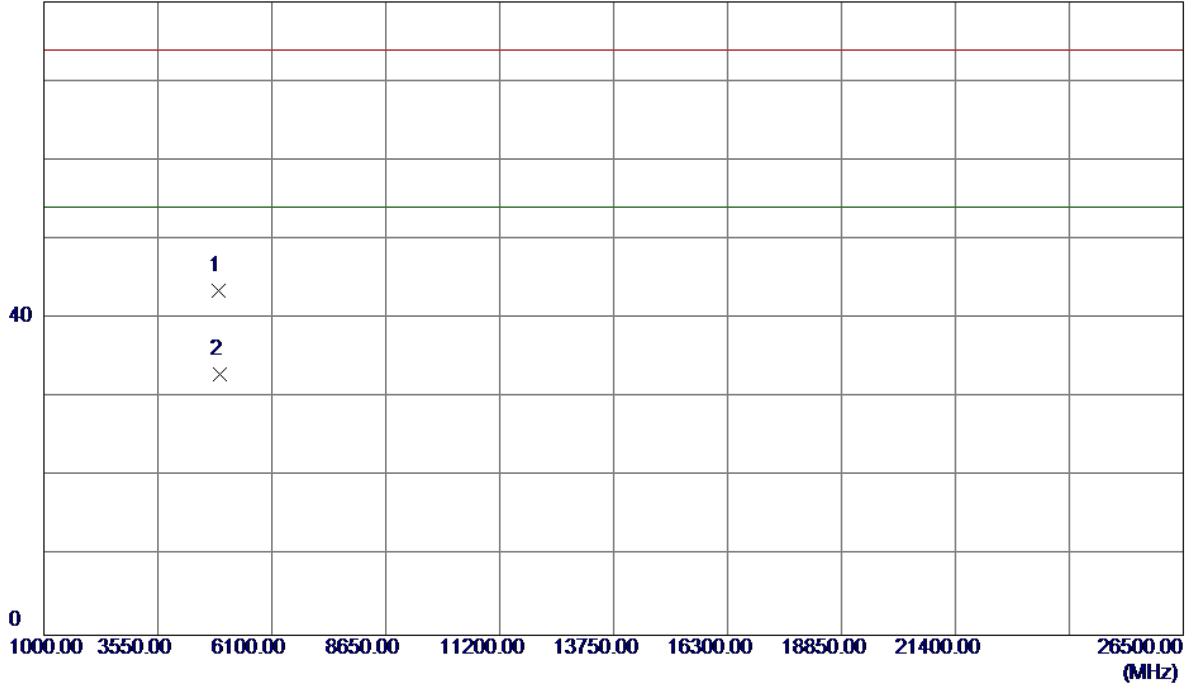


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.7000	66.62	33.87	100.49	54.00	46.49	AVG	No Limit
2	2457.1000	76.92	33.88	110.80	74.00	36.80	Peak	No Limit
3	2483.5000	33.14	34.03	67.17	74.00	-6.83	Peak	
4	2483.5000	18.40	34.03	52.43	54.00	-1.57	AVG	

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

Vertical

80 dBuV/m

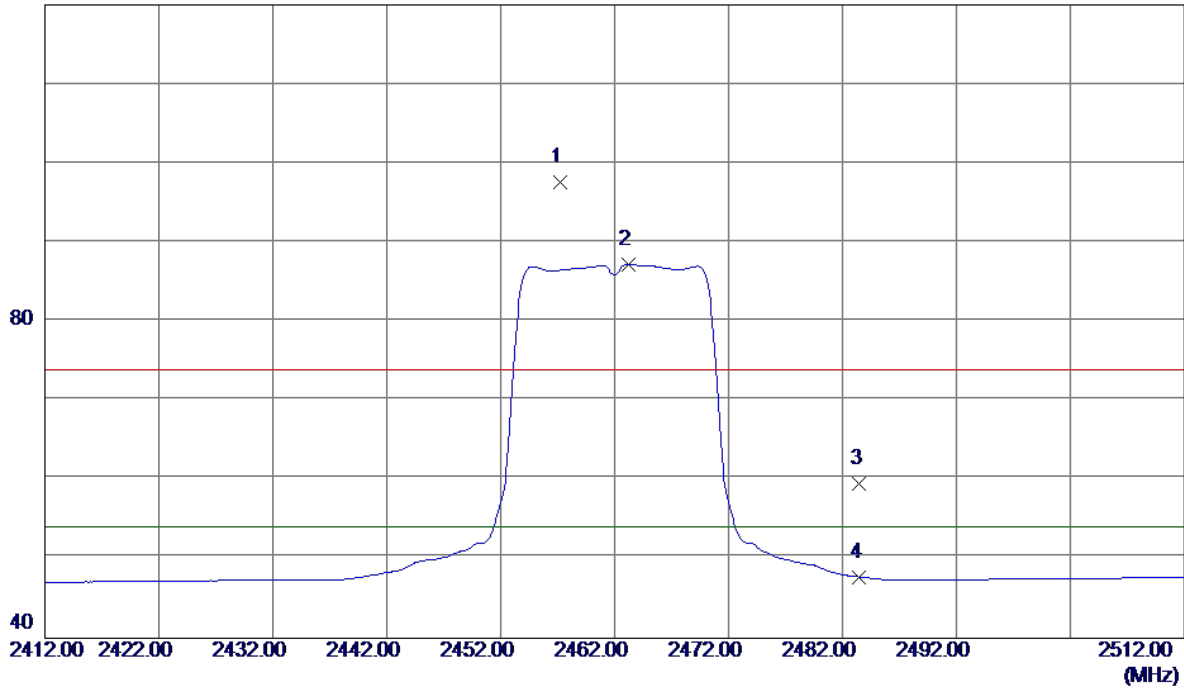


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.5000	40.44	3.05	43.49	74.00	-30.51	Peak	
2 *	4924.5000	29.98	3.05	33.03	54.00	-20.97	AVG	

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

Horizontal

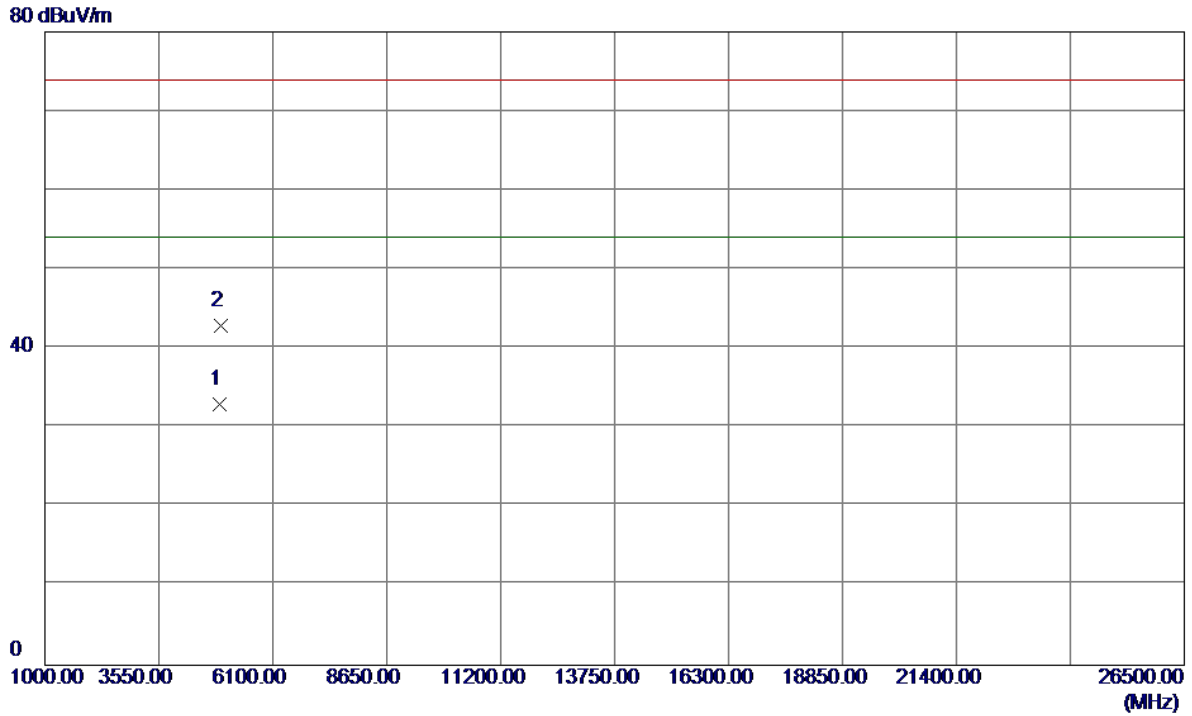
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.2000	63.71	33.88	97.59	74.00	23.59	Peak	No Limit
2 *	2463.2000	53.30	33.92	87.22	54.00	33.22	AVG	No Limit
3	2483.5000	25.50	34.03	59.53	74.00	-14.47	Peak	
4	2483.5000	13.71	34.03	47.74	54.00	-6.26	AVG	

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

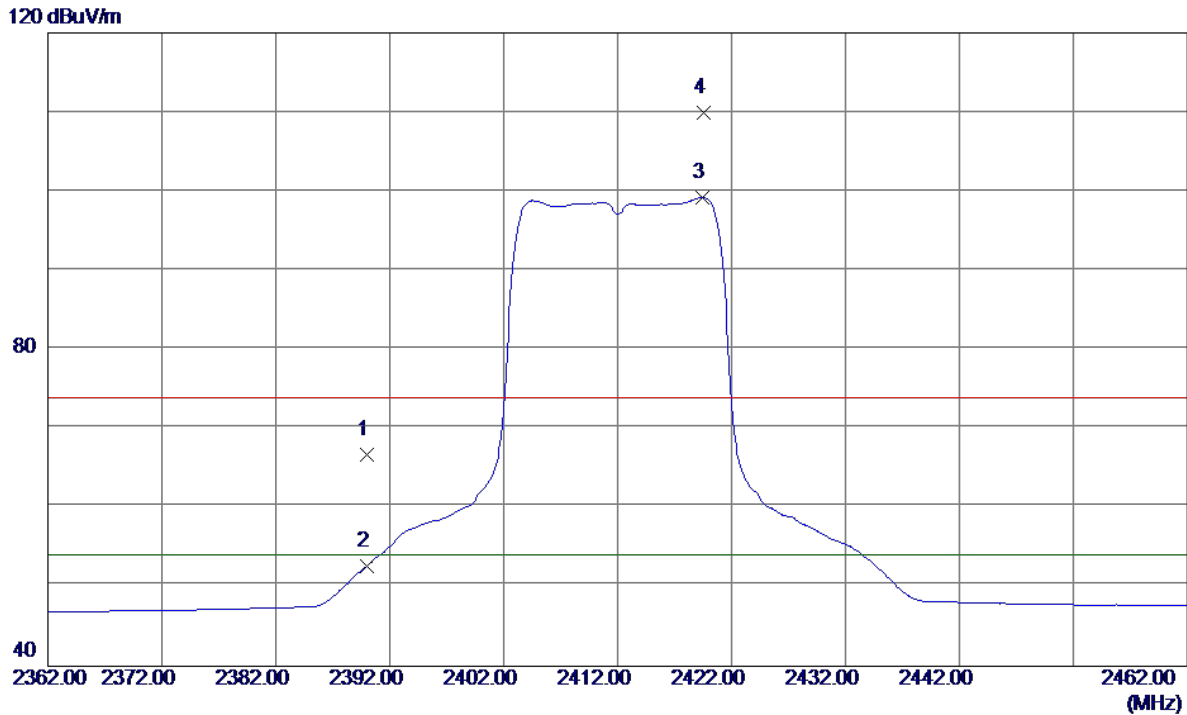
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.5000	29.89	3.05	32.94	54.00	-21.06	AVG	
2	4924.5000	39.77	3.05	42.82	74.00	-31.18	Peak	

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

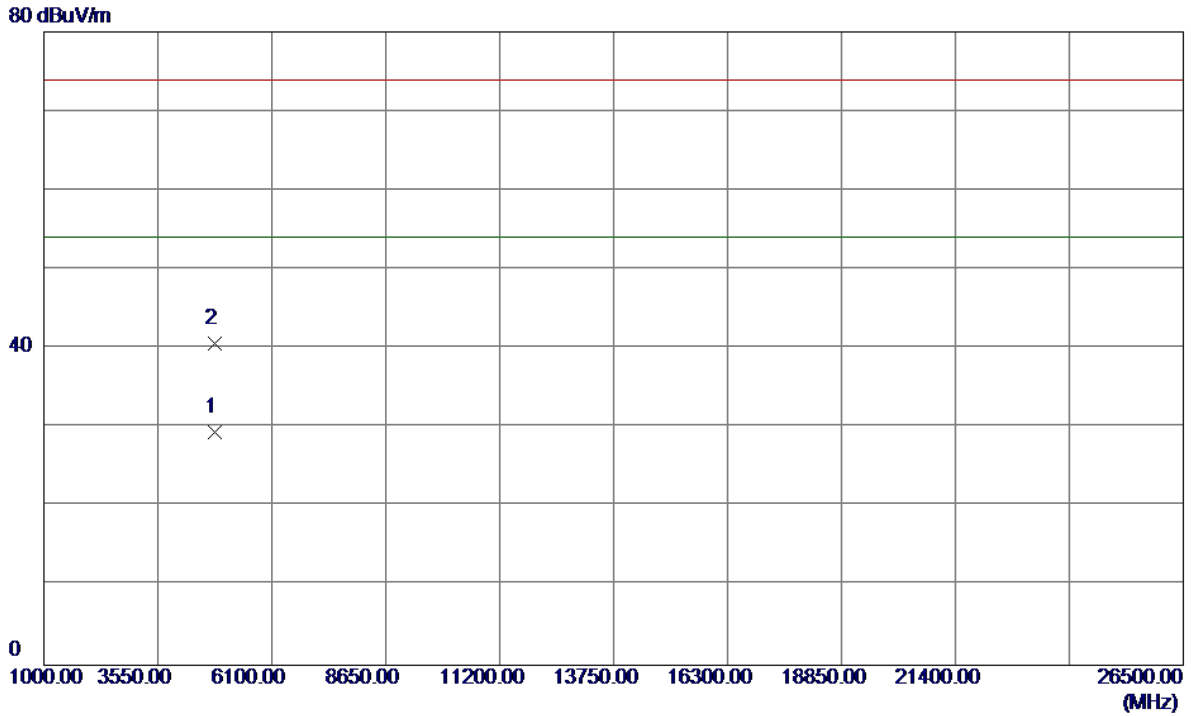
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.26	33.51	66.77	74.00	-7.23	Peak	
2	2390.0000	19.14	33.51	52.65	54.00	-1.35	AVG	
3 *	2419.4000	65.52	33.68	99.20	54.00	45.20	AVG	No Limit
4	2419.6000	76.28	33.68	109.96	74.00	35.96	Peak	No Limit

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

Vertical

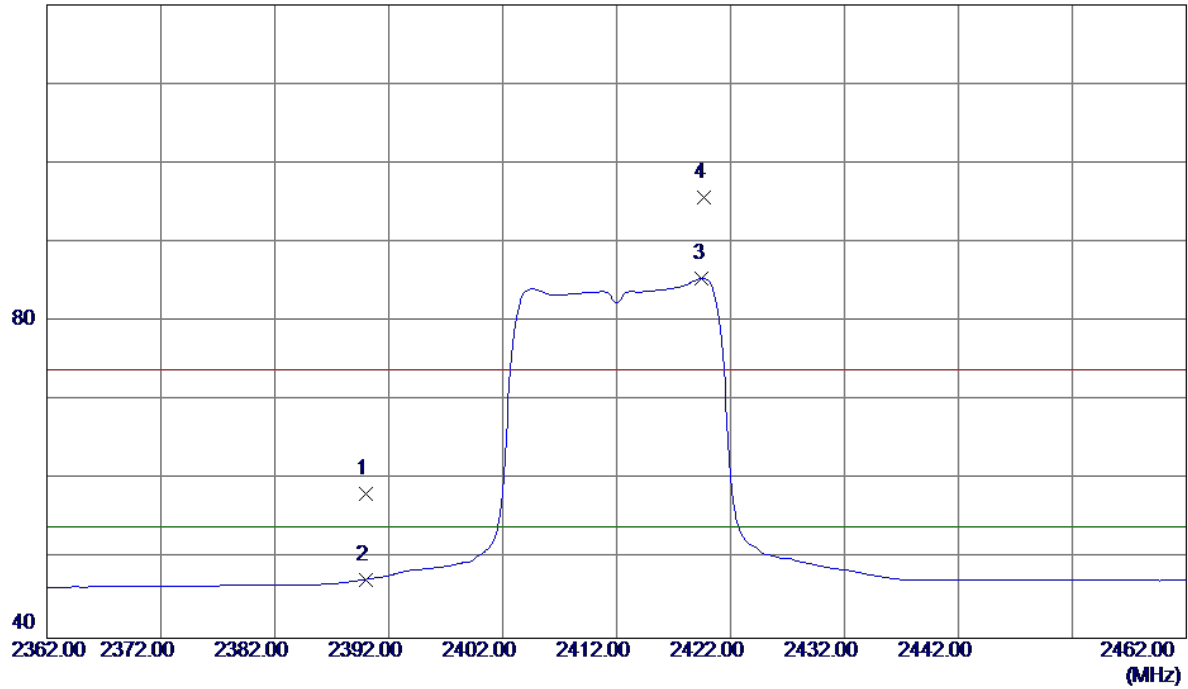


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8600	26.40	3.00	29.40	54.00	-24.60	AVG	
2	4824.1000	37.67	3.00	40.67	74.00	-33.33	Peak	

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

Horizontal

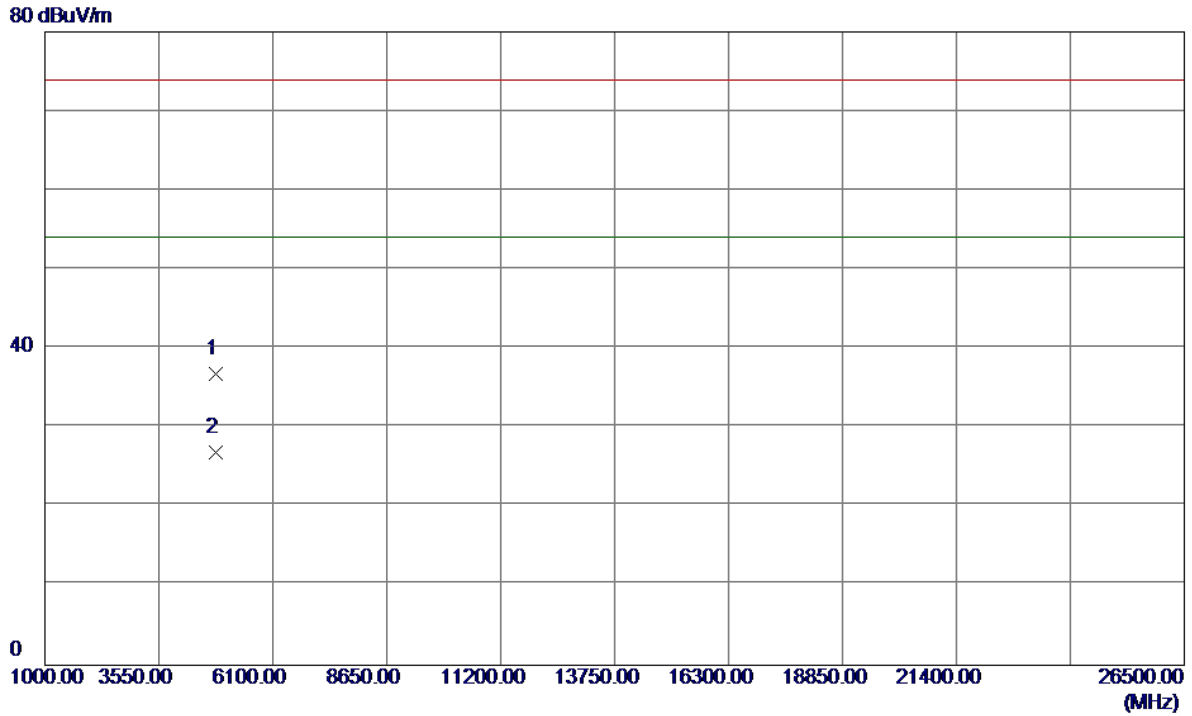
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.72	33.51	58.23	74.00	-15.77	Peak	
2	2390.0000	13.91	33.51	47.42	54.00	-6.58	AVG	
3 *	2419.5000	51.78	33.68	85.46	54.00	31.46	AVG	No Limit
4	2419.7000	61.96	33.68	95.64	74.00	21.64	Peak	No Limit

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

Horizontal

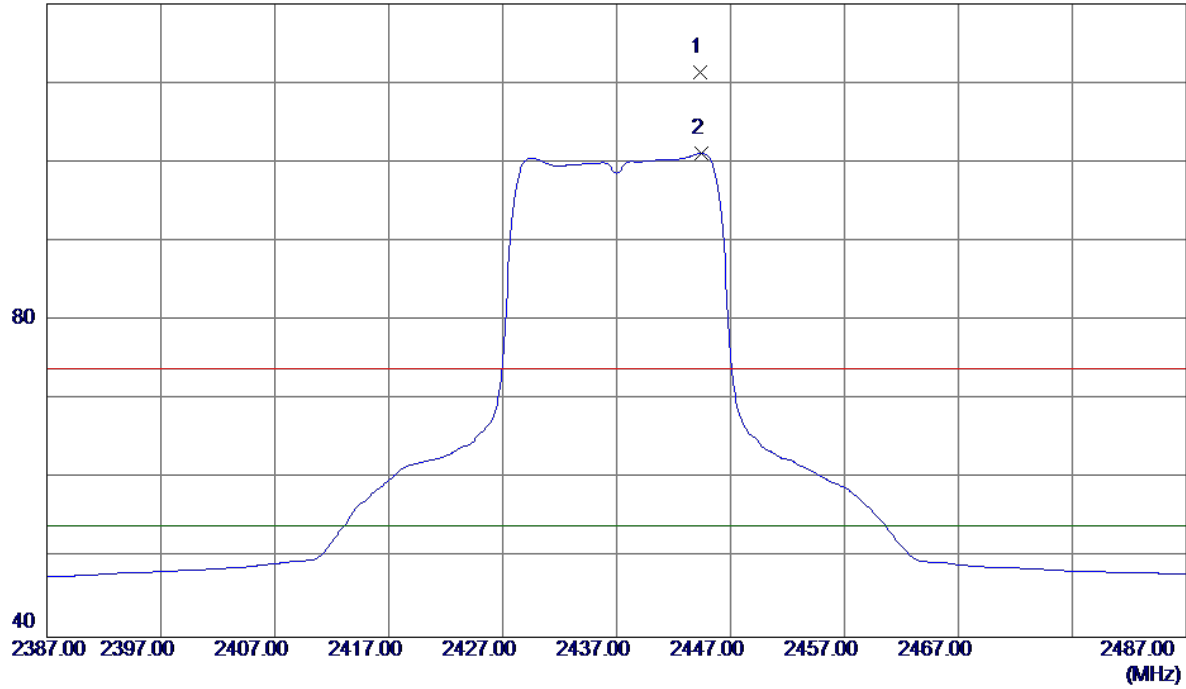


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9200	33.82	3.00	36.82	74.00	-37.18	Peak	
2 *	4823.9600	23.92	3.00	26.92	54.00	-27.08	AVG	

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

Vertical

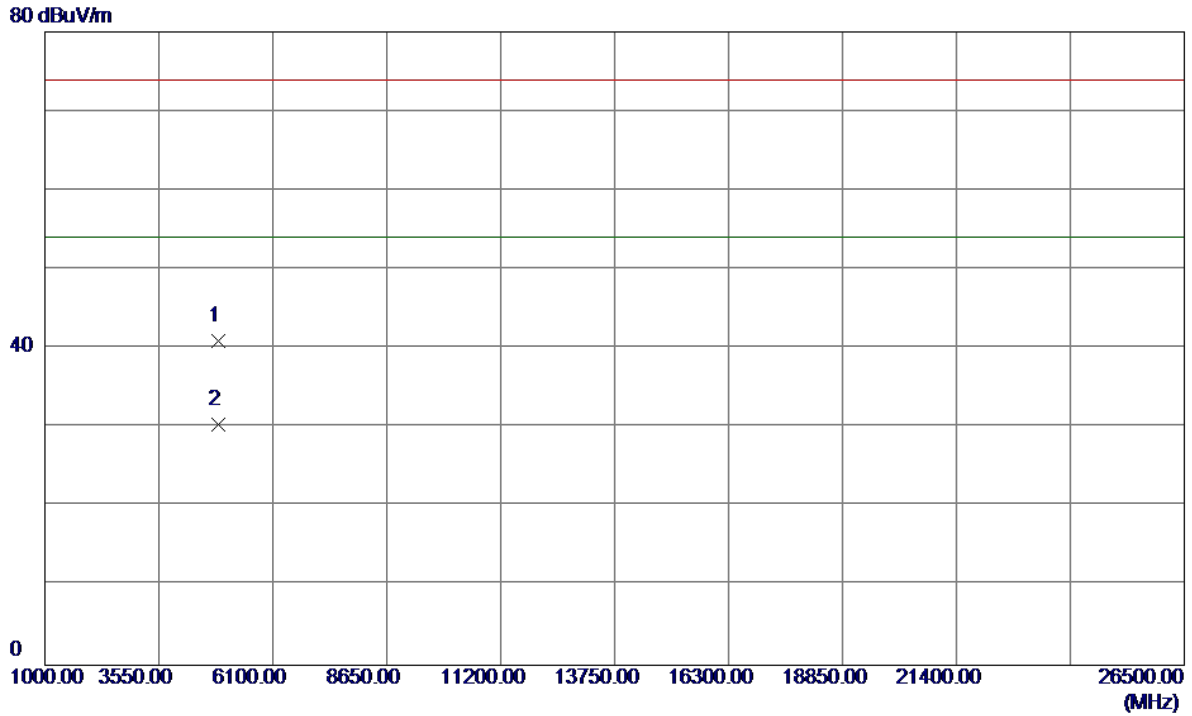
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2444.3000	77.48	33.81	111.29	74.00	37.29	Peak	No Limit
2 *	2444.4000	67.33	33.81	101.14	54.00	47.14	AVG	No Limit

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

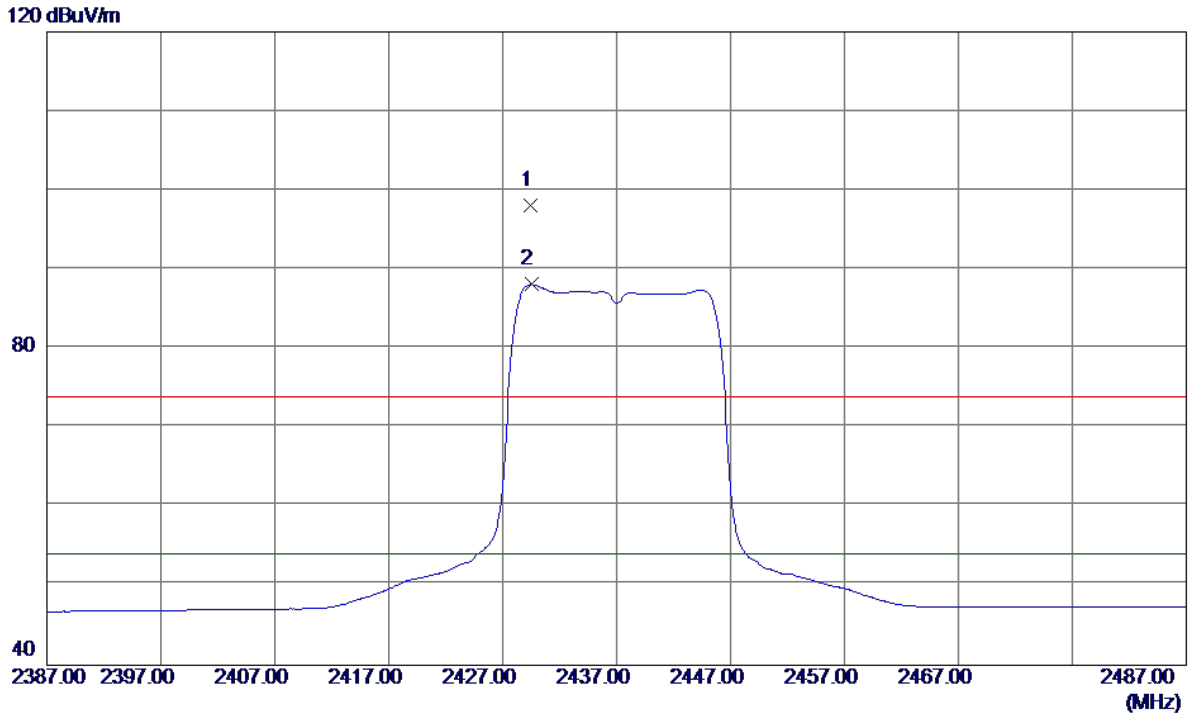
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.5800	37.86	3.03	40.89	74.00	-33.11	Peak	
2 *	4873.9200	27.32	3.03	30.35	54.00	-23.65	AVG	

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

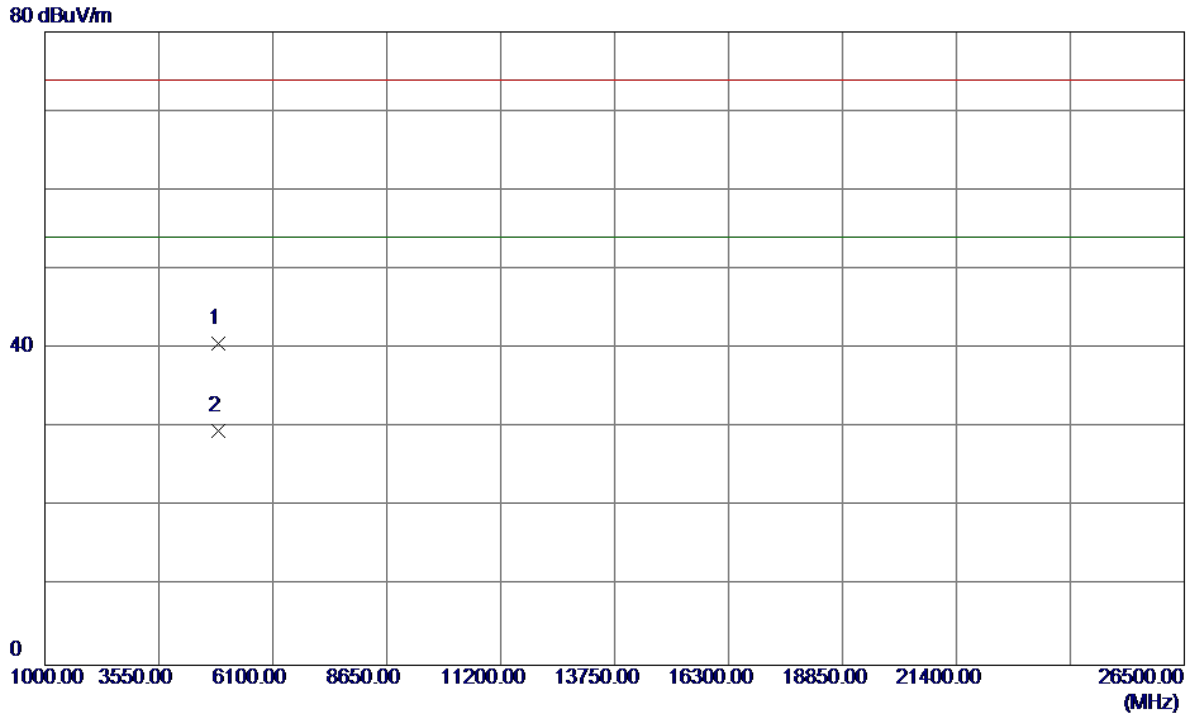
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2429.4000	64.40	33.73	98.13	74.00	24.13	Peak	No Limit
2 *	2429.5000	54.37	33.73	88.10	54.00	34.10	AVG	No Limit

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

Horizontal

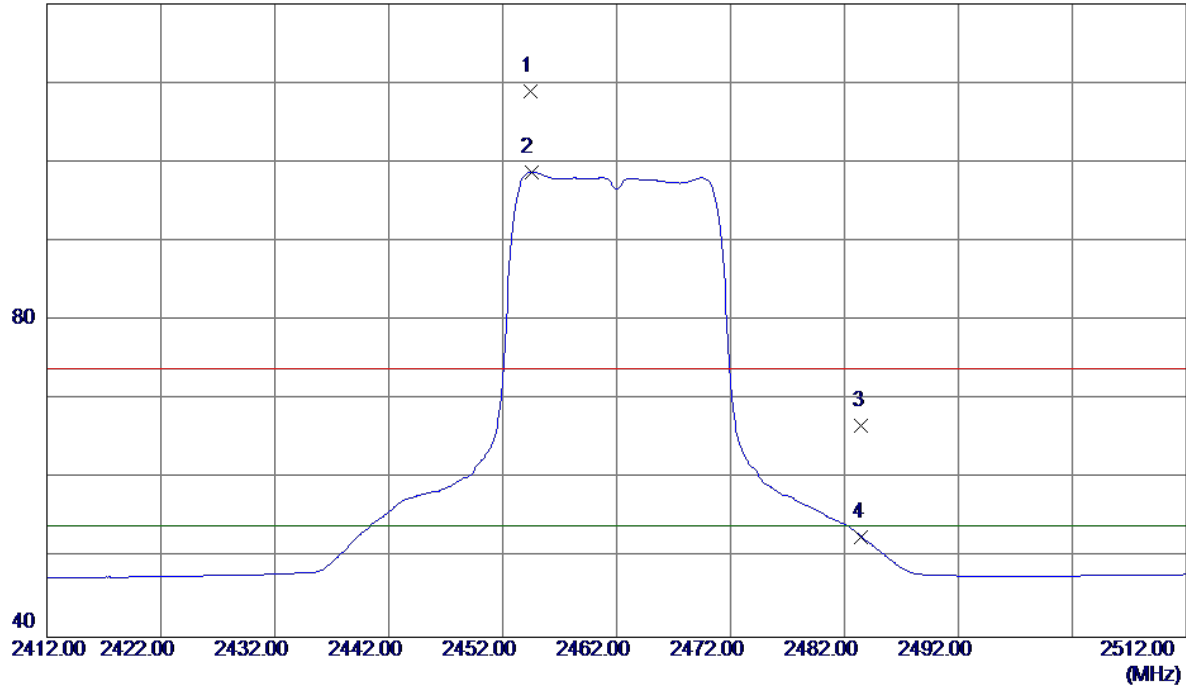


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.9000	37.68	3.03	40.71	74.00	-33.29	Peak	
2 *	4873.3000	26.53	3.03	29.56	54.00	-24.44	AVG	

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

Vertical

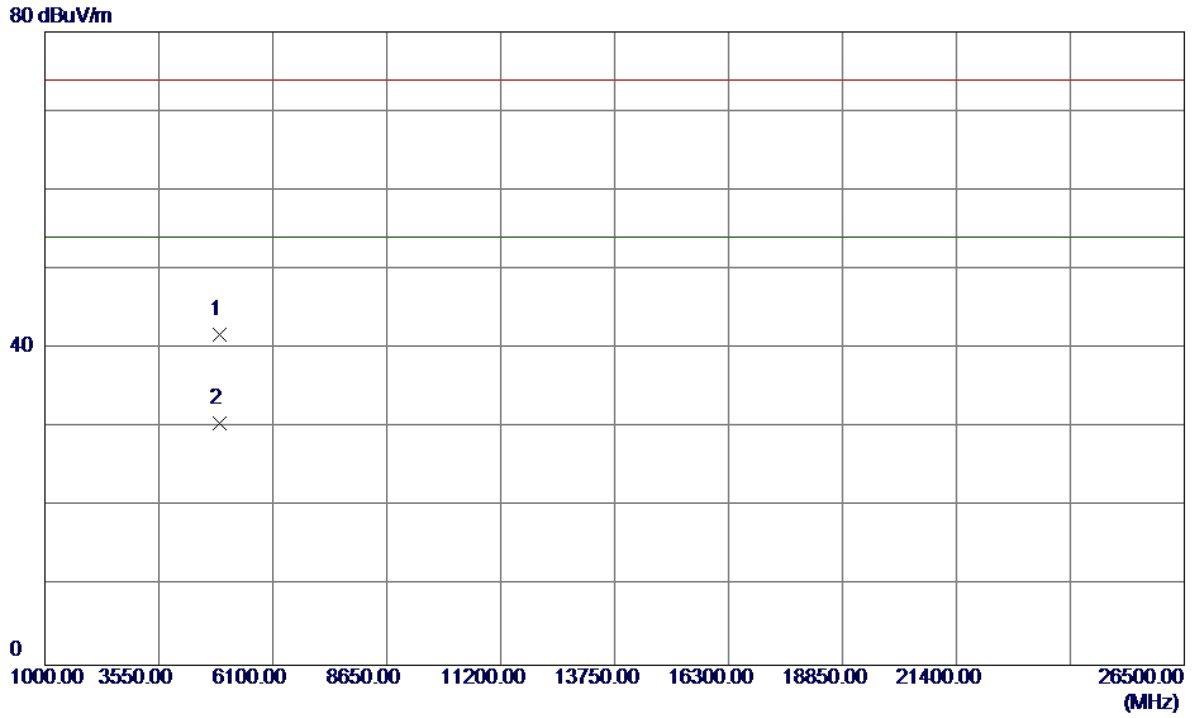
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2454.4000	75.07	33.87	108.94	74.00	34.94	Peak	No Limit
2 *	2454.5000	64.91	33.87	98.78	54.00	44.78	AVG	No Limit
3	2483.5000	32.72	34.03	66.75	74.00	-7.25	Peak	
4	2483.5000	18.67	34.03	52.70	54.00	-1.30	AVG	

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

Vertical

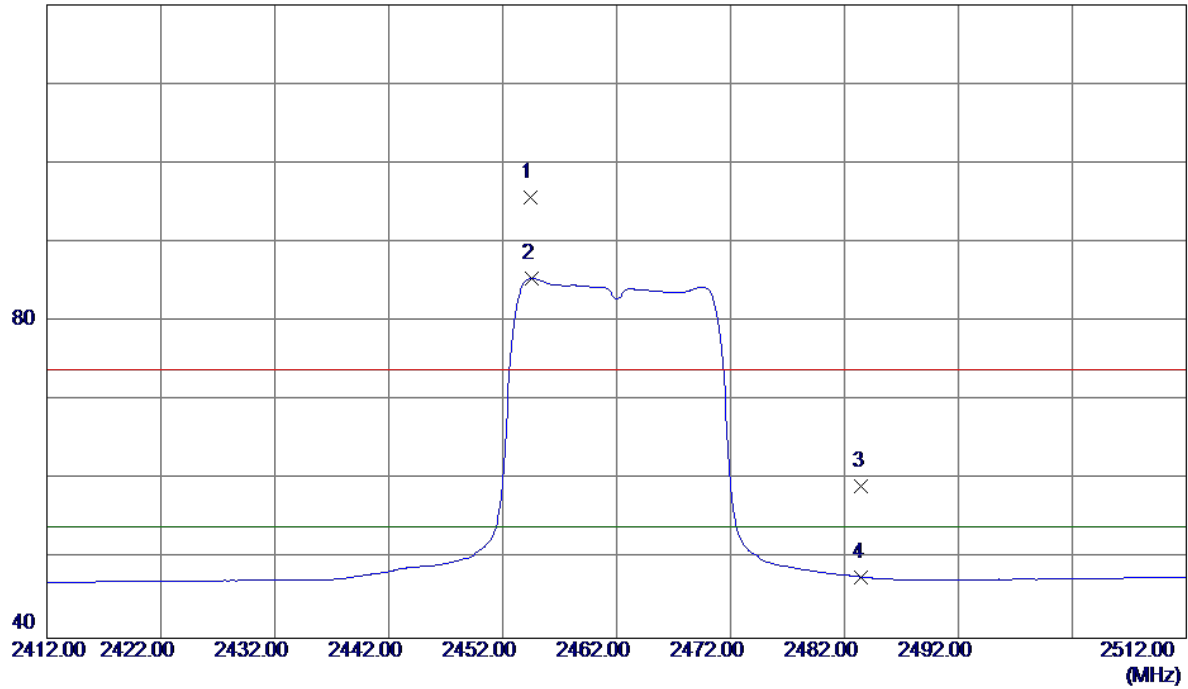


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.2000	38.72	3.05	41.77	74.00	-32.23	Peak	
2 *	4923.5000	27.55	3.05	30.60	54.00	-23.40	AVG	

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

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2454.4000	61.88	33.87	95.75	74.00	21.75	Peak	No Limit
2 *	2454.6000	51.60	33.87	85.47	54.00	31.47	AVG	No Limit
3	2483.5000	25.13	34.03	59.16	74.00	-14.84	Peak	
4	2483.5000	13.69	34.03	47.72	54.00	-6.28	AVG	

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

Horizontal

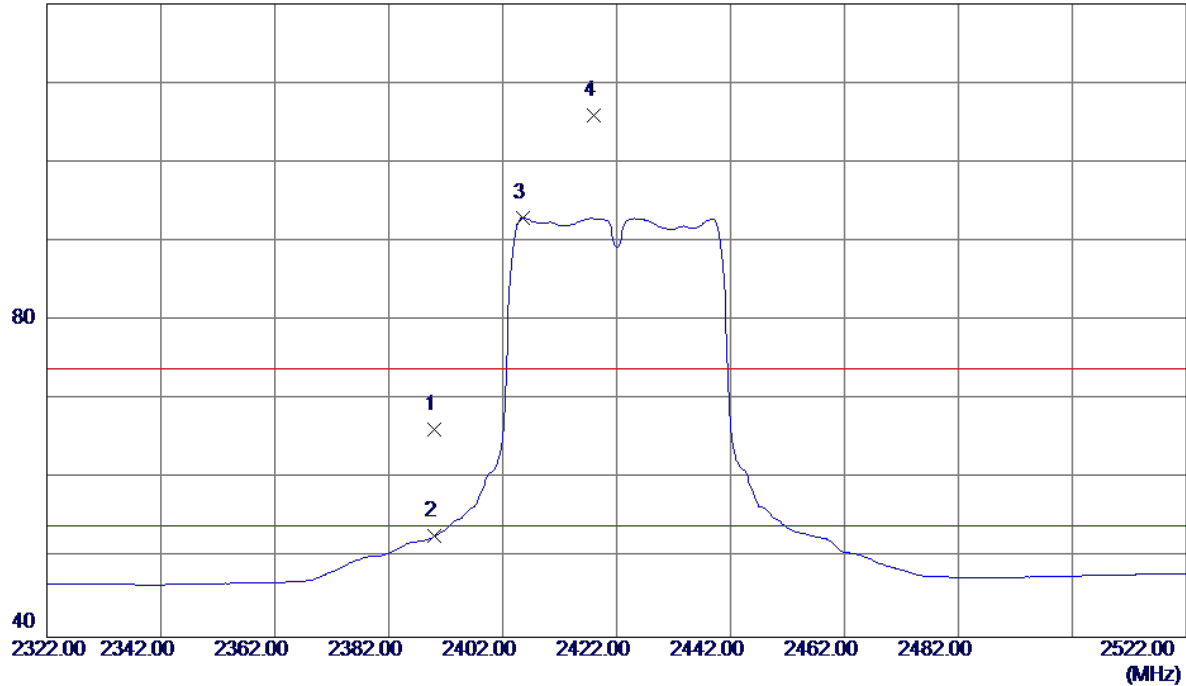


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.1000	37.08	3.05	40.13	74.00	-33.87	Peak	
2 *	4923.4900	26.93	3.05	29.98	54.00	-24.02	AVG	

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

Vertical

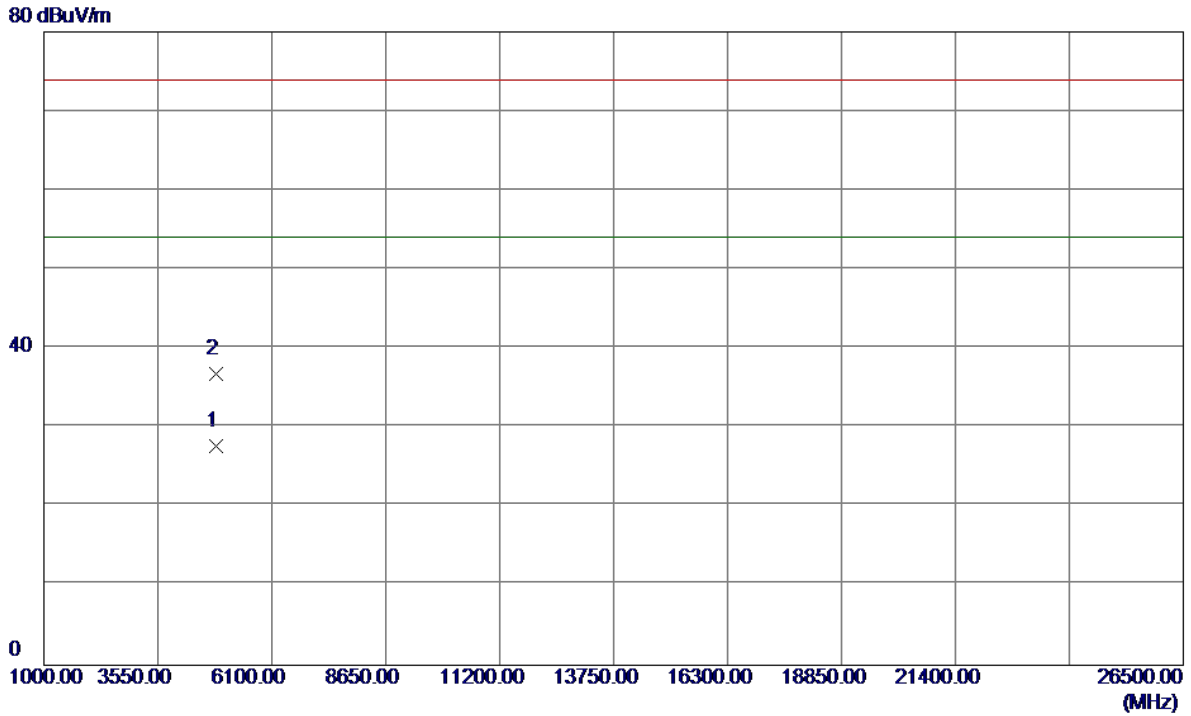
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.78	33.51	66.29	74.00	-7.71	Peak	
2	2390.0000	19.23	33.51	52.74	54.00	-1.26	AVG	
3 *	2405.6000	59.33	33.60	92.93	54.00	38.93	AVG	No Limit
4	2418.0000	72.27	33.67	105.94	74.00	31.94	Peak	No Limit

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

Vertical

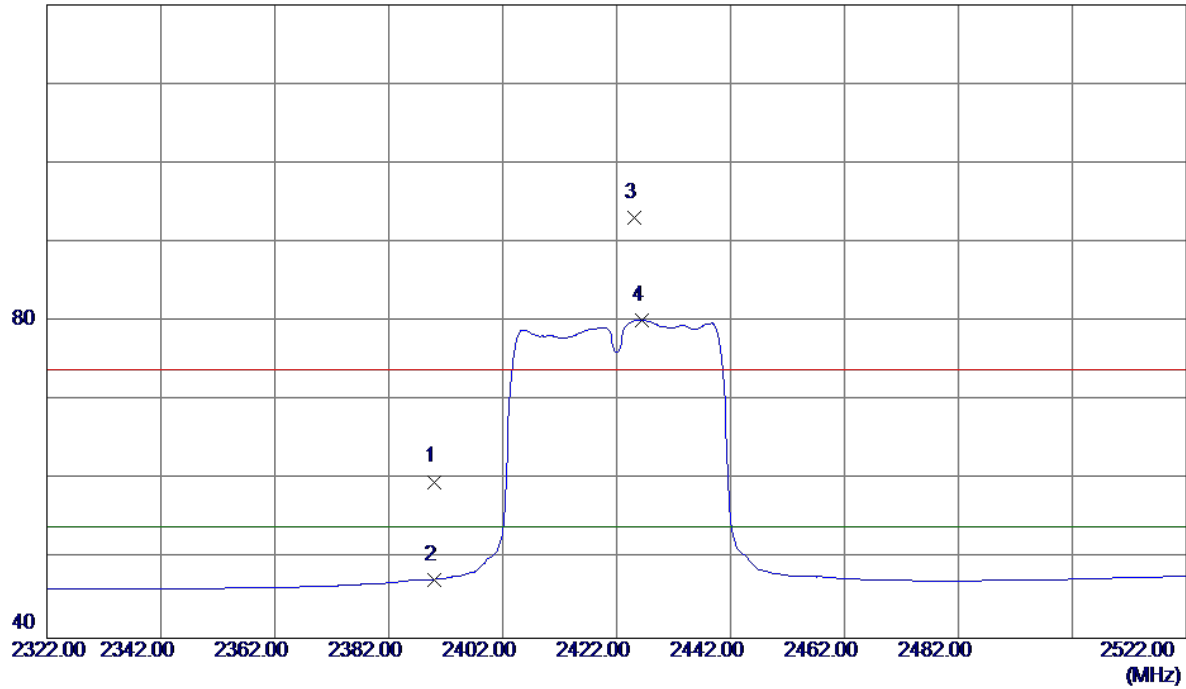


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4843.5400	24.69	3.01	27.70	54.00	-26.30	AVG	
2	4843.9200	33.85	3.01	36.86	74.00	-37.14	Peak	

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

Horizontal

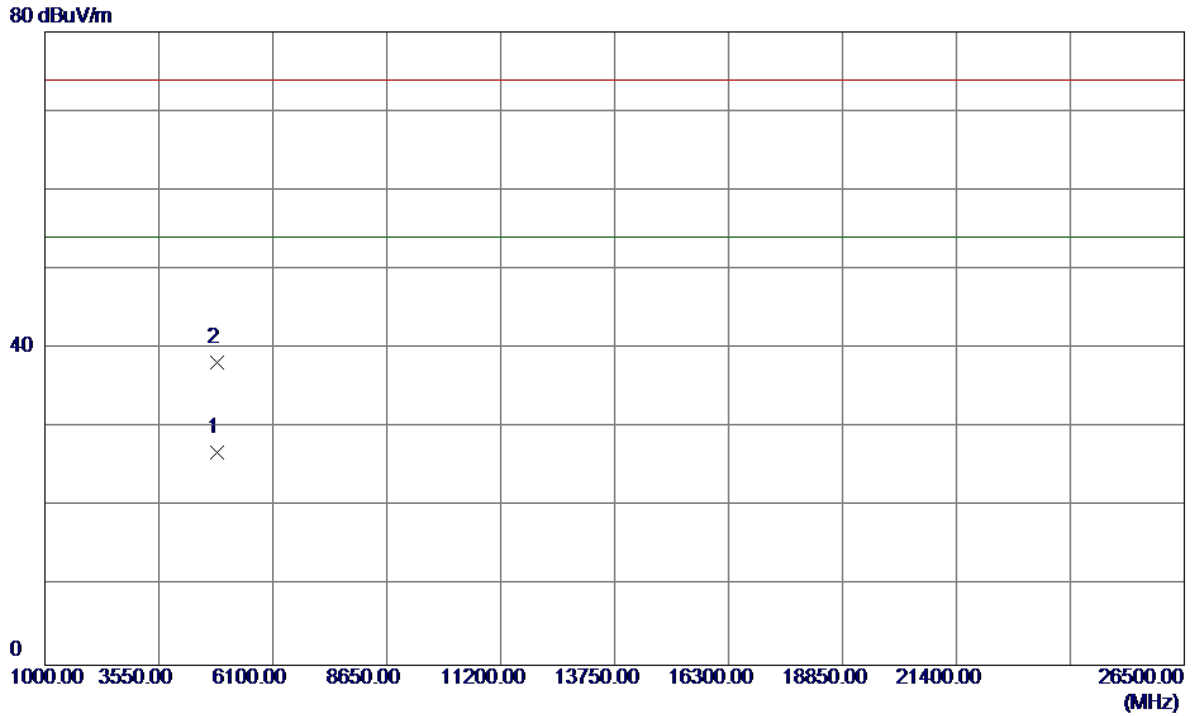
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.25	33.51	59.76	74.00	-14.24	Peak	
2	2390.0000	13.92	33.51	47.43	54.00	-6.57	AVG	
3	2425.2000	59.48	33.71	93.19	74.00	19.19	Peak	No Limit
4 *	2426.4000	46.45	33.71	80.16	54.00	26.16	AVG	No Limit

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

Horizontal

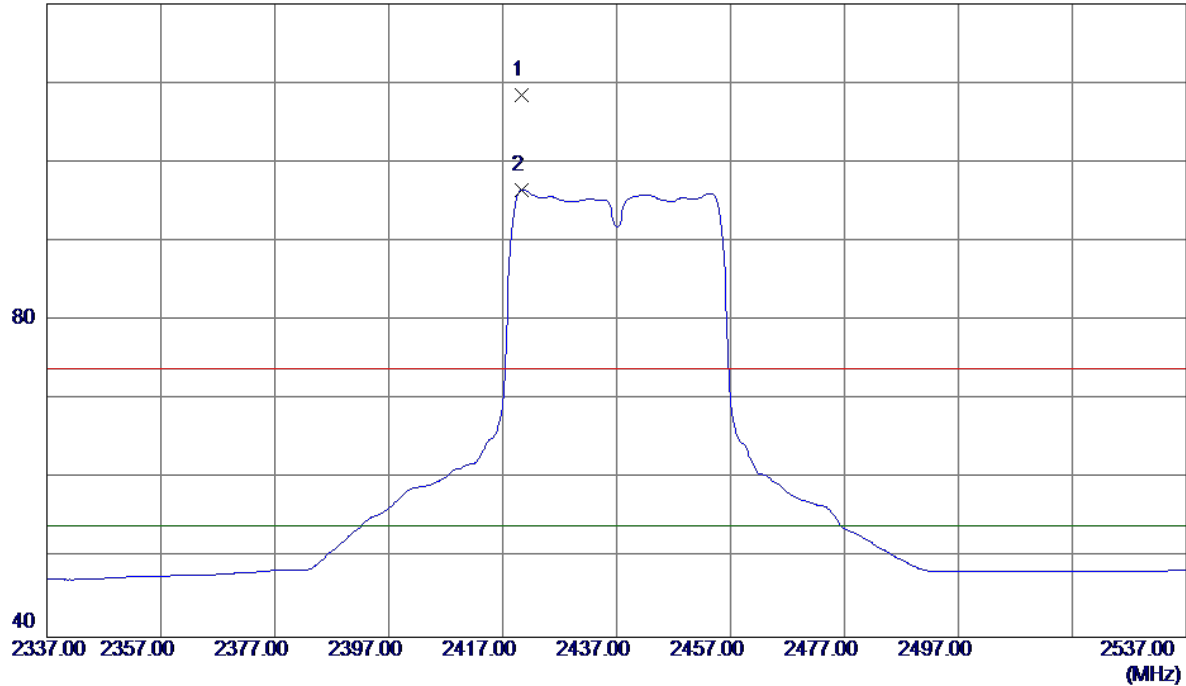


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4843.1000	23.89	3.01	26.90	54.00	-27.10	AVG	
2	4844.0000	35.16	3.01	38.17	74.00	-35.83	Peak	

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

Vertical

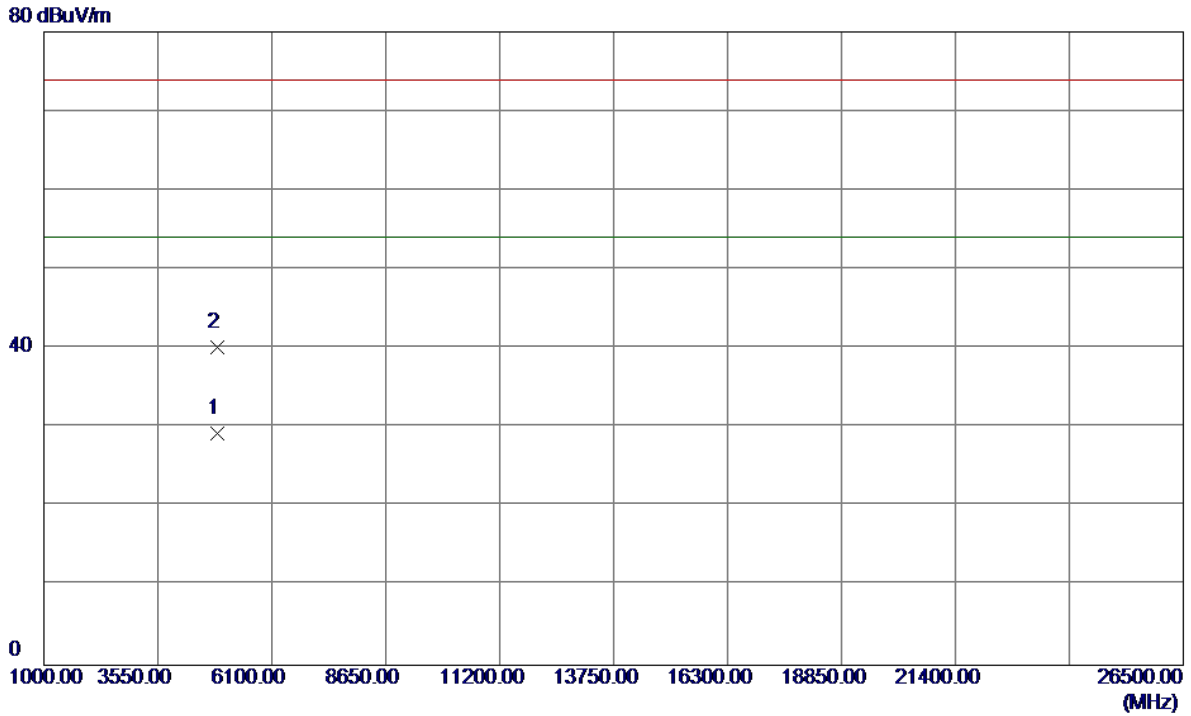
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2420.4000	74.75	33.68	108.43	74.00	34.43	Peak	No Limit
2 *	2420.4000	62.85	33.68	96.53	54.00	42.53	AVG	No Limit

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

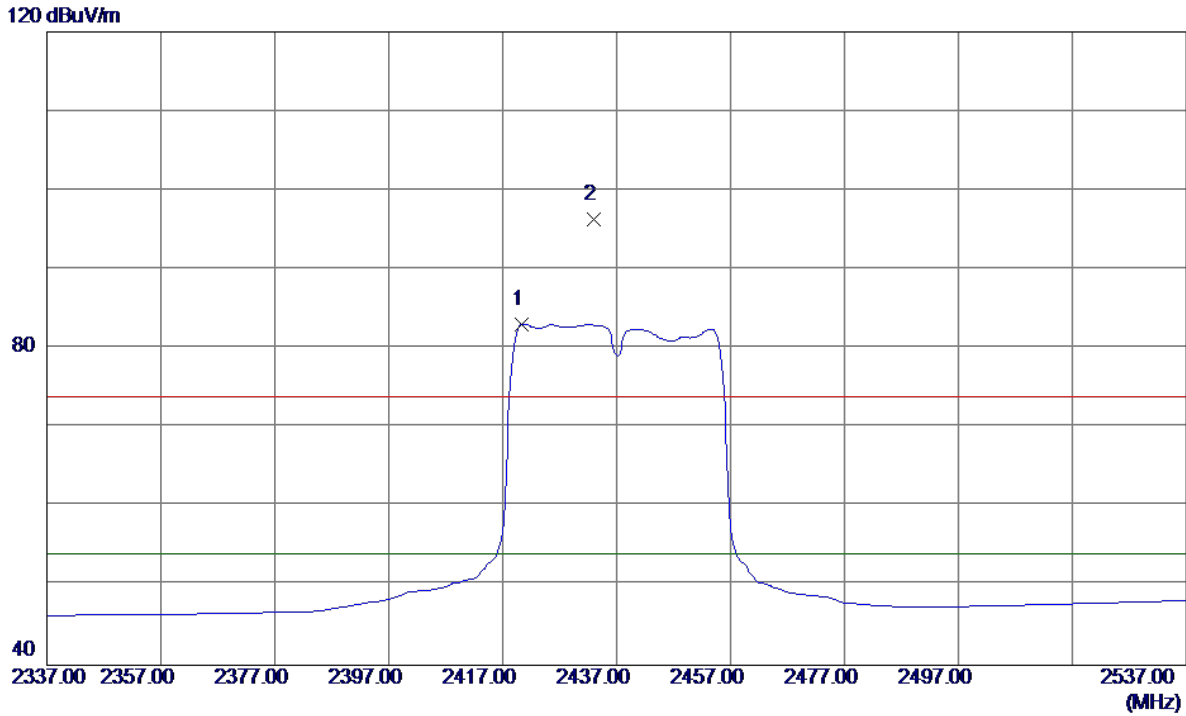
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.7599	26.21	3.03	29.24	54.00	-24.76	AVG	
2	4873.8300	37.15	3.03	40.18	74.00	-33.82	Peak	

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

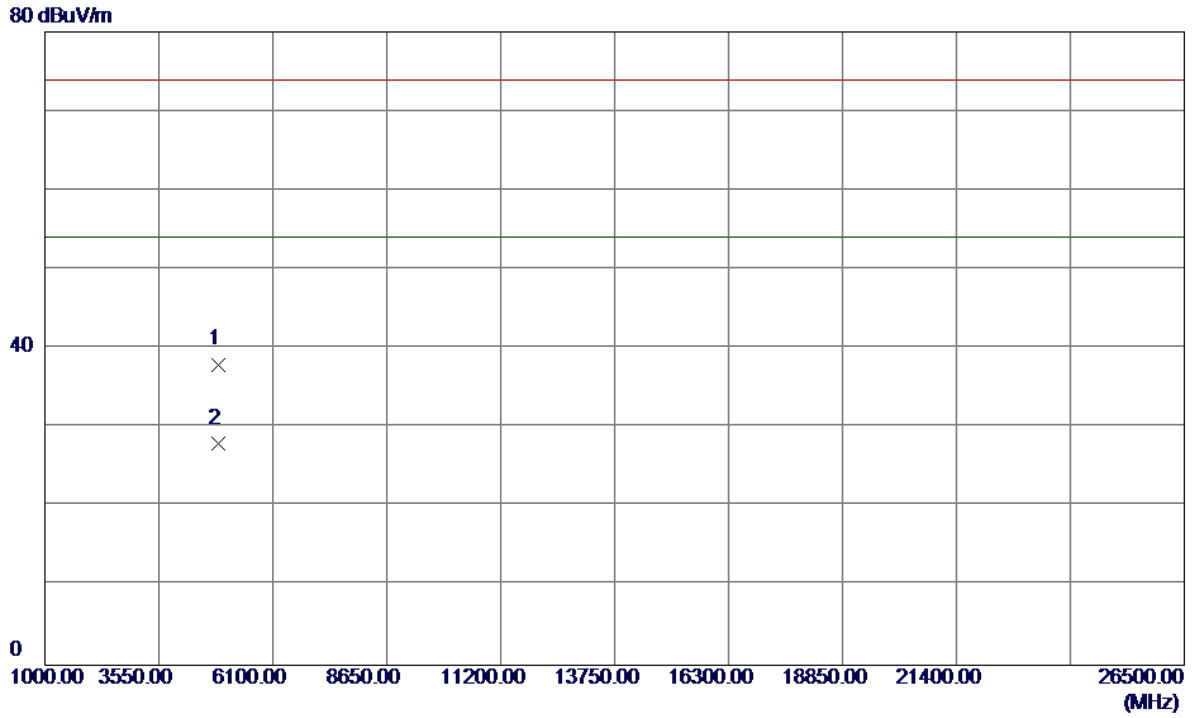
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2420.4000	49.43	33.68	83.11	54.00	29.11	AVG	No Limit
2	2433.0000	62.58	33.75	96.33	74.00	22.33	Peak	No Limit

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

Horizontal

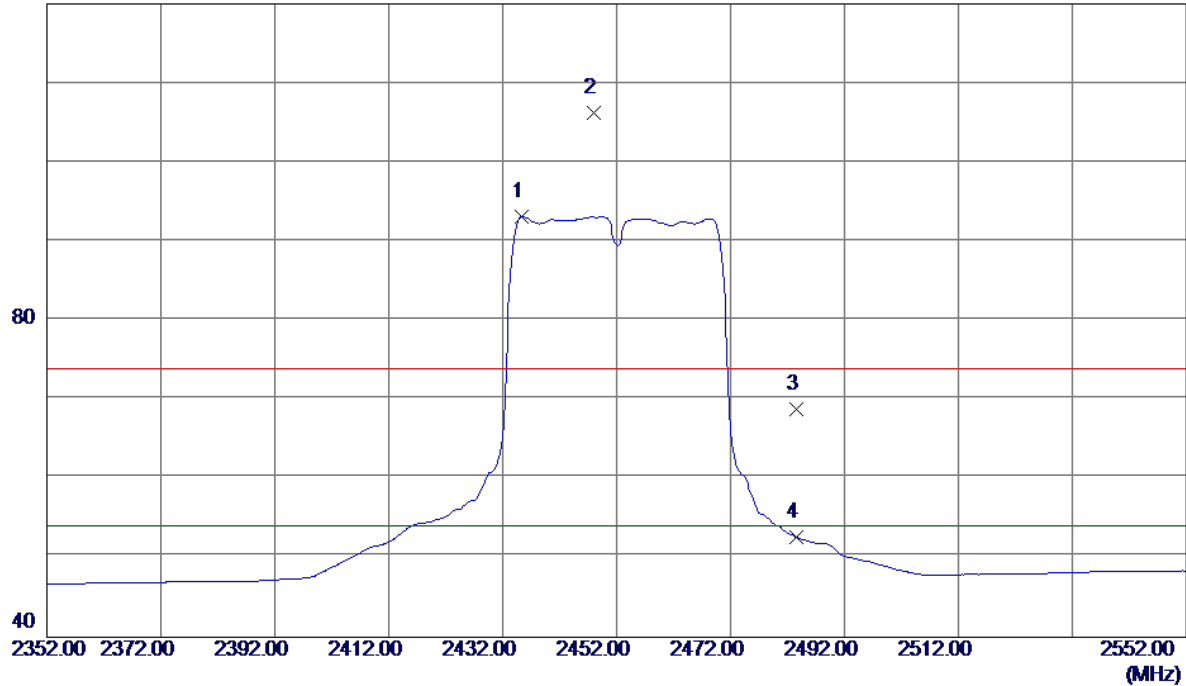


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8300	34.97	3.03	38.00	74.00	-36.00	Peak	
2 *	4873.9000	25.01	3.03	28.04	54.00	-25.96	AVG	

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

Vertical

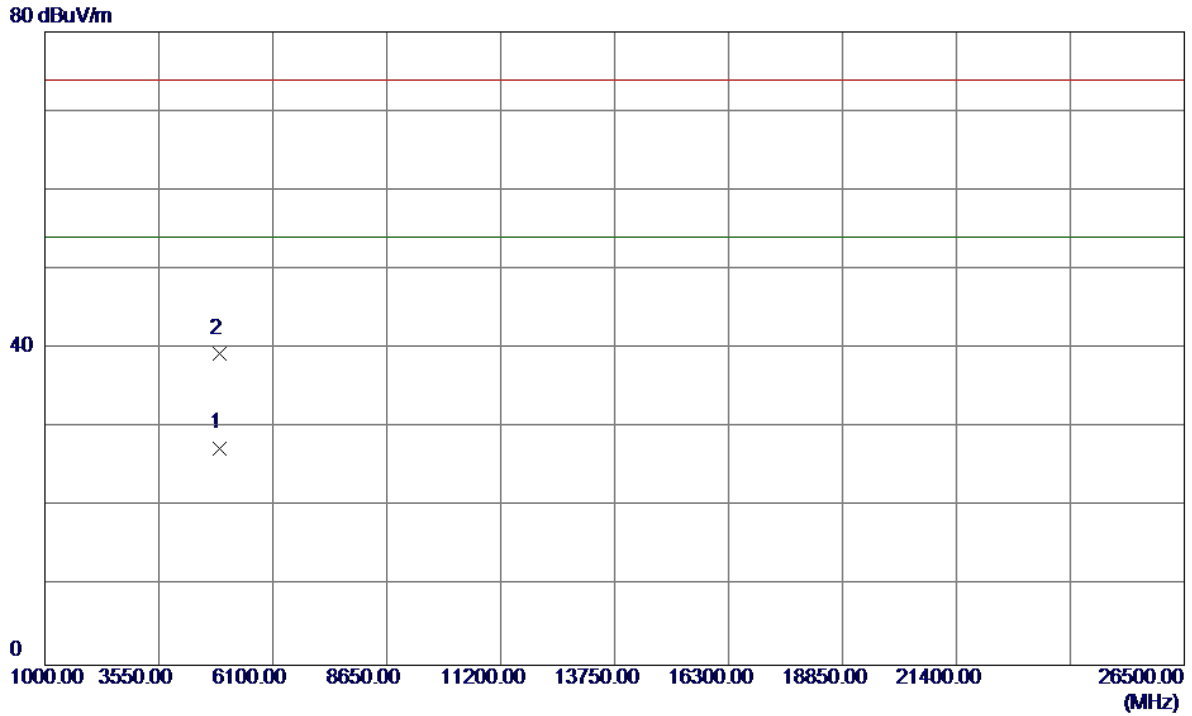
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.4000	59.35	33.76	93.11	54.00	39.11	AVG	No Limit
2	2448.0000	72.41	33.83	106.24	74.00	32.24	Peak	No Limit
3	2483.5000	34.77	34.03	68.80	74.00	-5.20	Peak	
4	2483.5000	18.62	34.03	52.65	54.00	-1.35	AVG	

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

Vertical

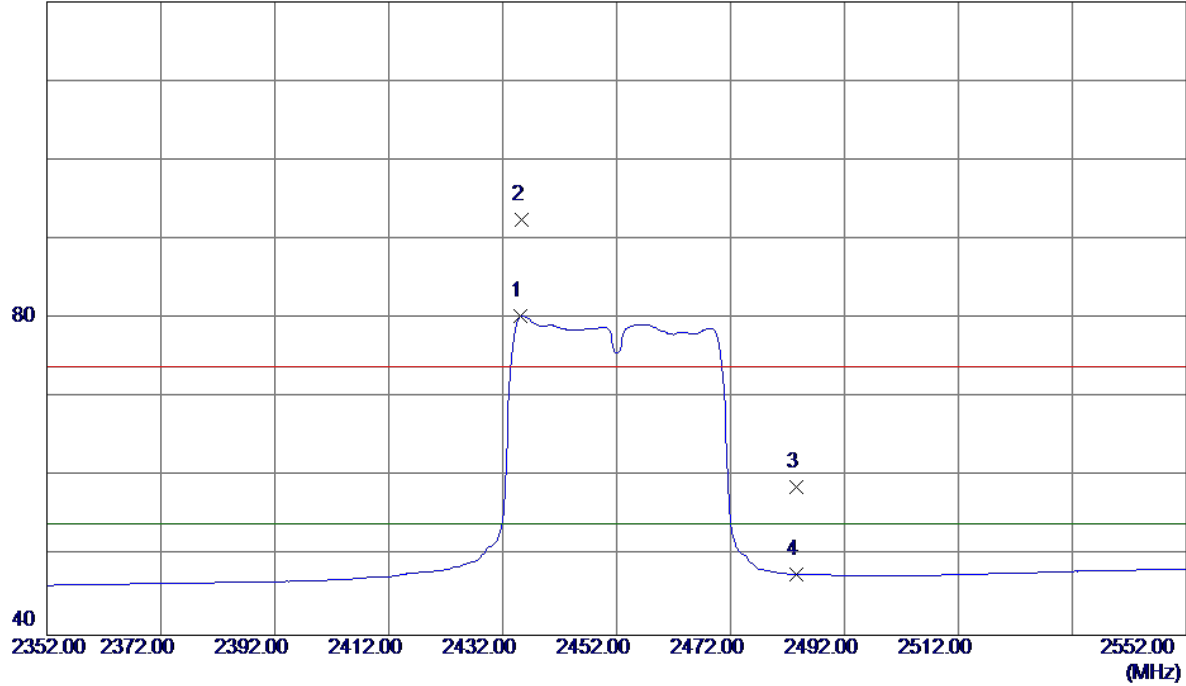


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4903.5000	24.40	3.04	27.44	54.00	-26.56	AVG	
2	4904.0000	36.34	3.04	39.38	74.00	-34.62	Peak	

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

Horizontal

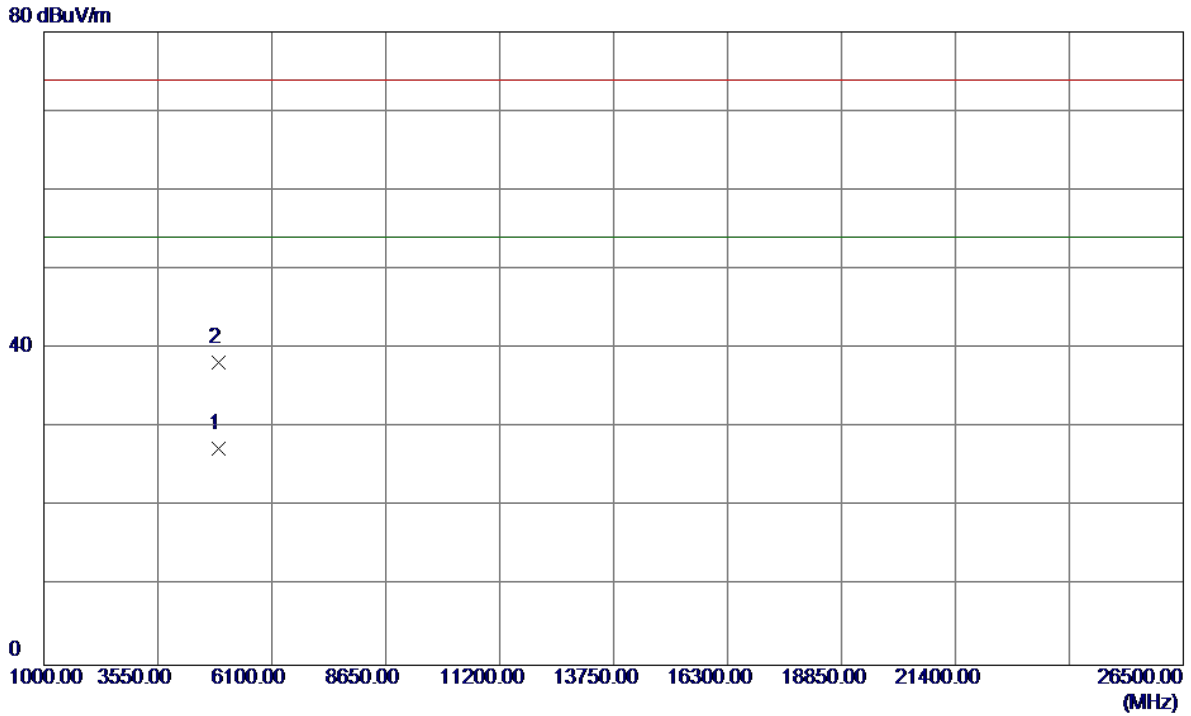
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.2000	46.62	33.76	80.38	54.00	26.38	AVG	No Limit
2	2435.4000	58.66	33.76	92.42	74.00	18.42	Peak	No Limit
3	2483.5000	24.70	34.03	58.73	74.00	-15.27	Peak	
4	2483.5000	13.64	34.03	47.67	54.00	-6.33	AVG	

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

Horizontal



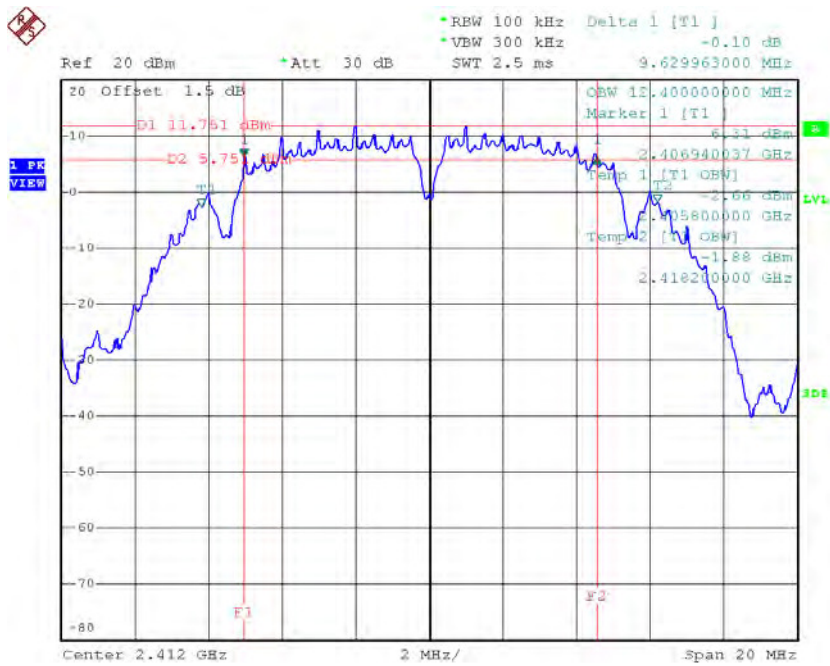
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4903.8100	24.34	3.04	27.38	54.00	-26.62	AVG	
2	4903.9400	35.19	3.04	38.23	74.00	-35.77	Peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

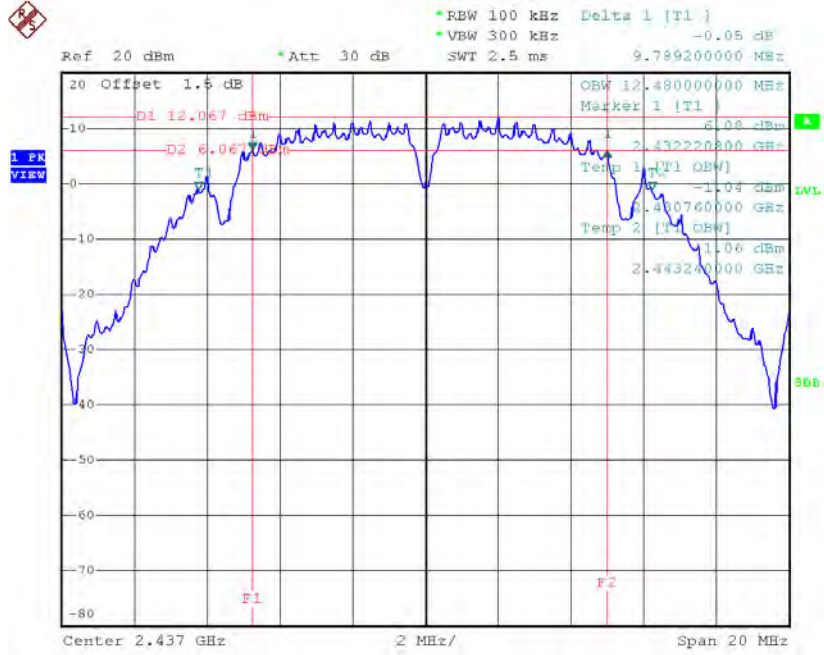
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.63	12.40	500	Complies
2437	9.79	12.48	500	Complies
2462	10.12	12.56	500	Complies

TX CH01



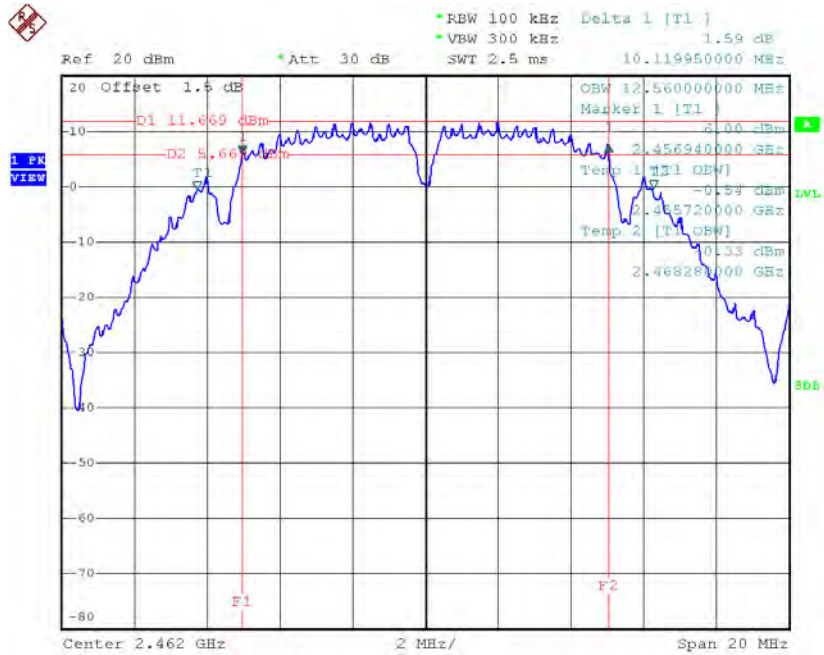
Date: 12.JUN.2016 15:12:36

TX CH06



Date: 12.JUN.2016 15:13:58

TX CH11

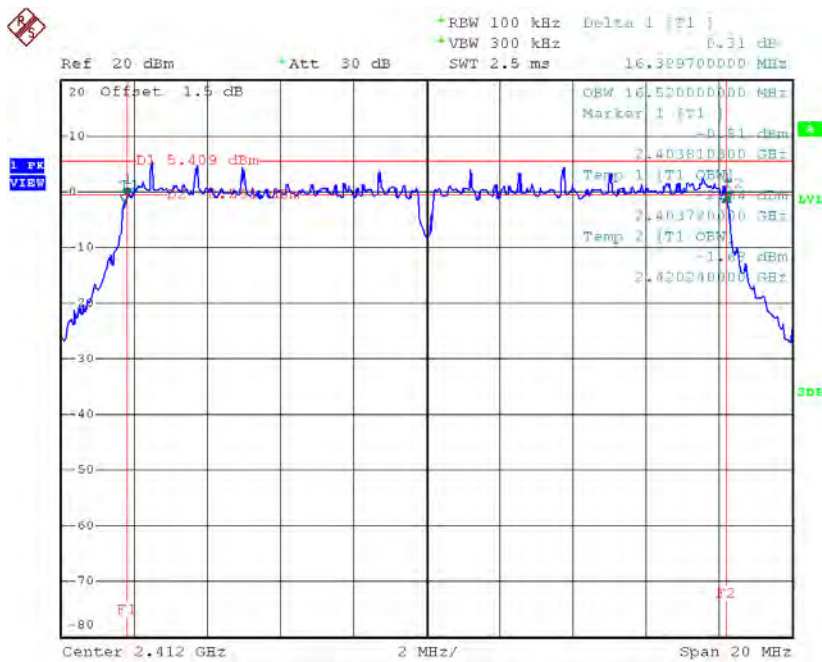


Date: 12.JUN.2016 15:15:21

Test Mode: TX G Mode_CH01/06/11

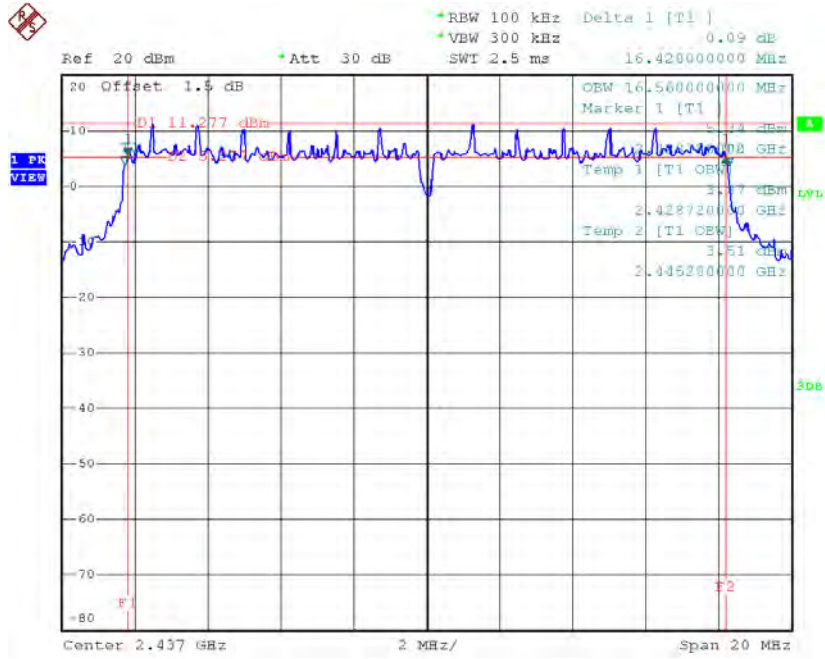
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.39	16.52	500	Complies
2437	16.42	16.56	500	Complies
2462	16.44	16.52	500	Complies

TX CH01



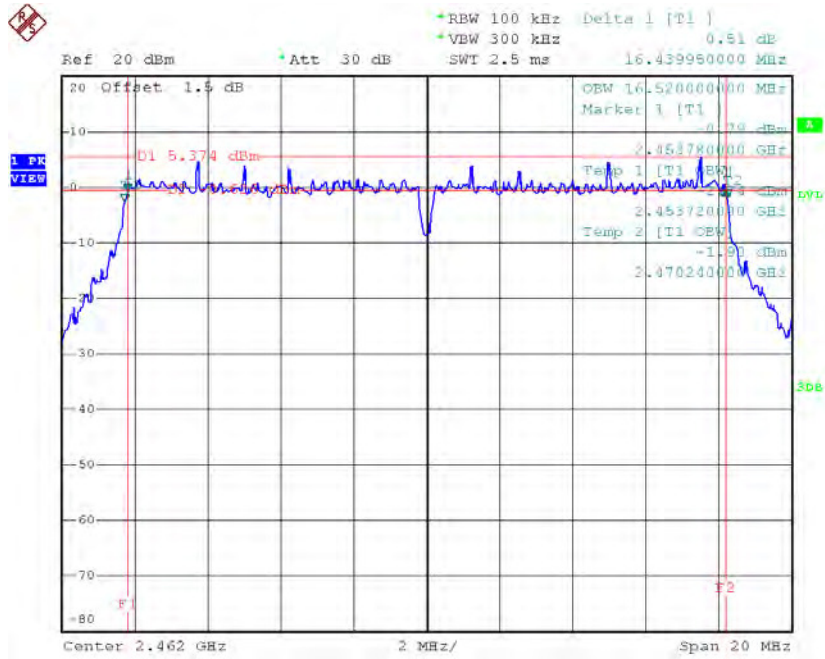
Date: 12.JUN.2016 15:17:29

TX CH06



Date: 12.JUN.2016 15:18:54

TX CH11

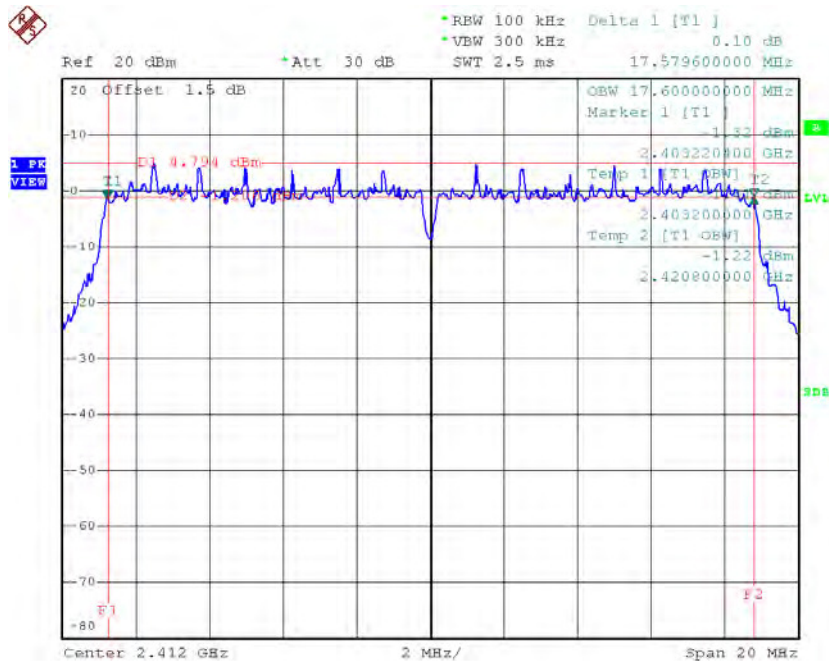


Date: 12.JUN.2016 15:20:25

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

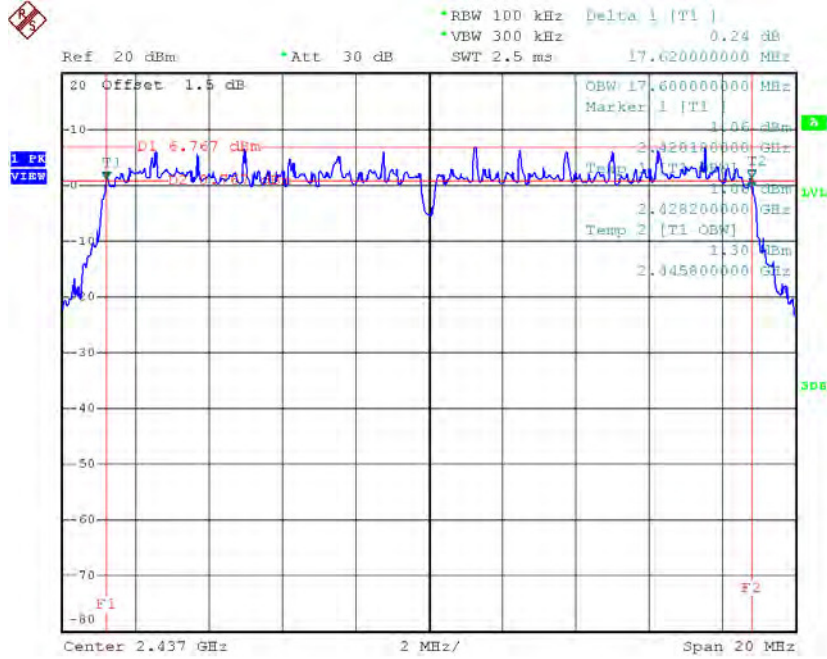
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.58	17.60	500	Complies
2437	17.62	17.60	500	Complies
2462	17.60	17.60	500	Complies

TX CH01



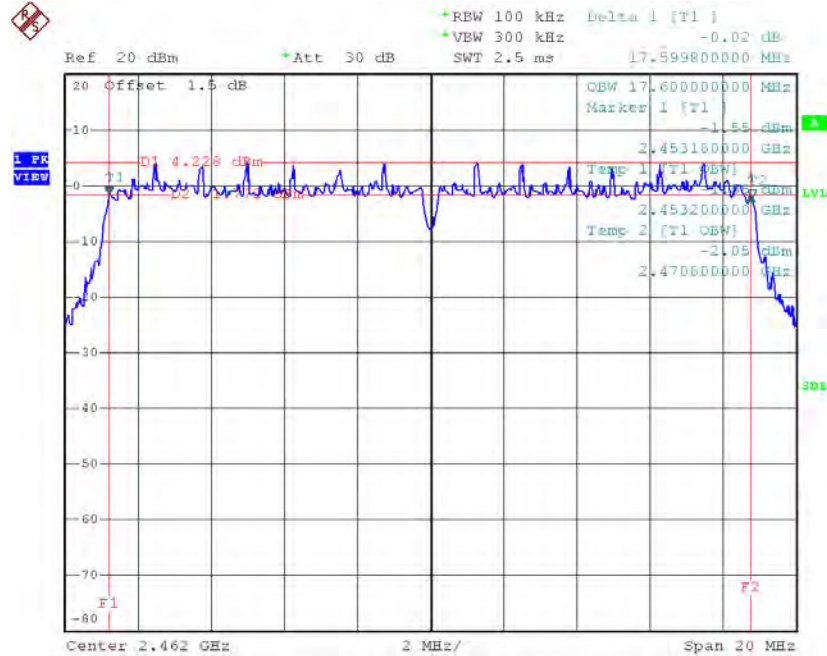
Date: 12.JUN.2016 15:22:14

TX CH06



Date: 12.JUN.2016 15:24:02

TX CH11

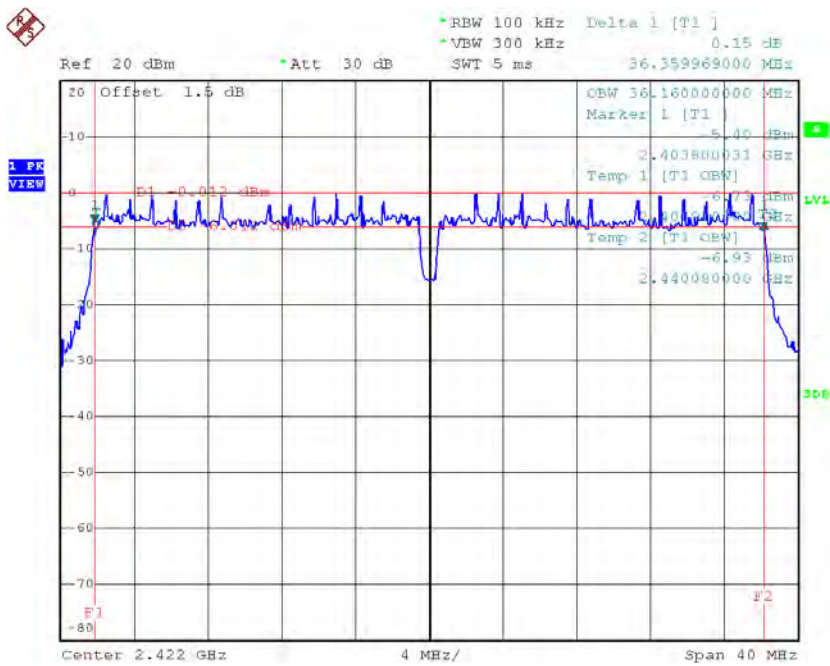


Date: 12.JUN.2016 15:25:22

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

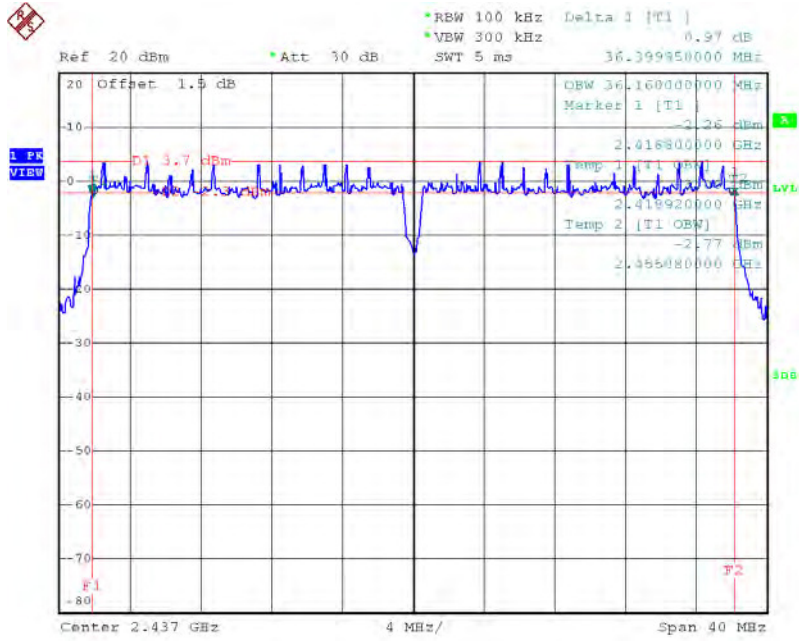
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.36	36.16	500	Complies
2437	36.40	36.16	500	Complies
2452	36.40	36.24	500	Complies

TX CH03



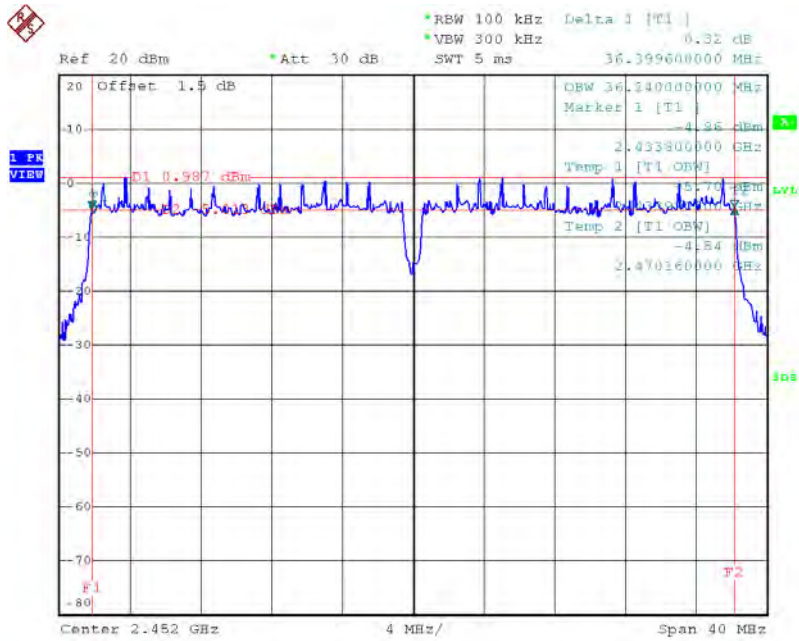
Date: 12.JUN.2016 15:40:26

TX CH06



Date: 12.JUN.2016 15:41:41

TX CH09



Date: 12.JUN.2016 15:42:56

ATTACHMENT F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.21	0.17	30.00	1.00	Complies
2437	23.62	0.23	30.00	1.00	Complies
2462	23.59	0.23	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.84	0.19	30.00	1.00	Complies
2437	26.76	0.47	30.00	1.00	Complies
2462	22.92	0.20	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.04	0.16	30.00	1.00	Complies
2437	23.57	0.23	30.00	1.00	Complies
2462	22.26	0.17	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.39	0.14	30.00	1.00	Complies
2437	22.80	0.19	30.00	1.00	Complies
2462	21.78	0.15	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	24.74	0.30	30.00	1.00	Complies
2437	26.21	0.42	30.00	1.00	Complies
2462	25.04	0.32	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.07	0.20	30.00	1.00	Complies
2437	23.88	0.24	30.00	1.00	Complies
2452	23.11	0.20	30.00	1.00	Complies

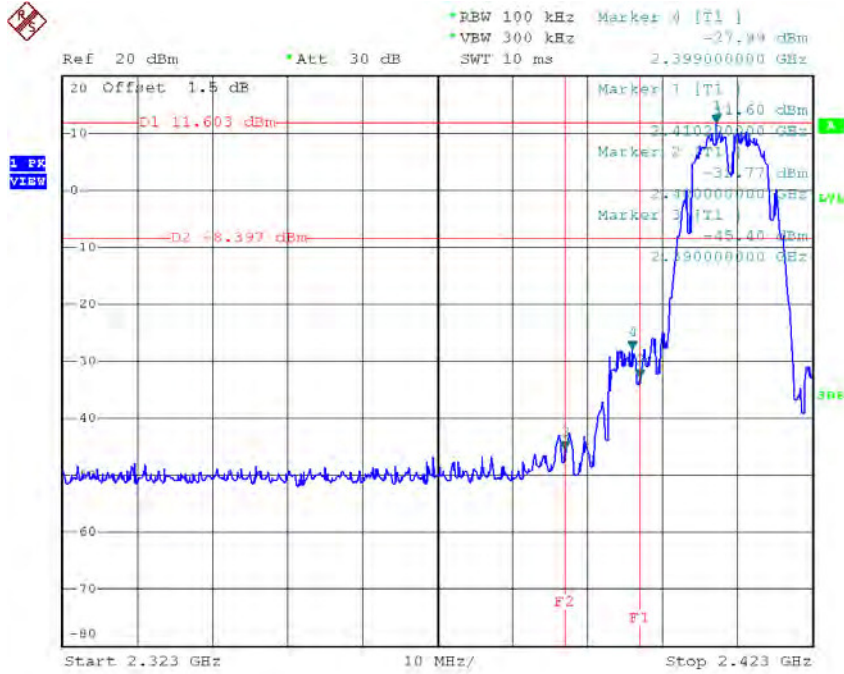
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.39	0.22	30.00	1.00	Complies
2437	23.08	0.20	30.00	1.00	Complies
2452	23.32	0.21	30.00	1.00	Complies

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	26.24	0.42	30.00	1.00	Complies
2437	26.51	0.45	30.00	1.00	Complies
2452	26.23	0.42	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

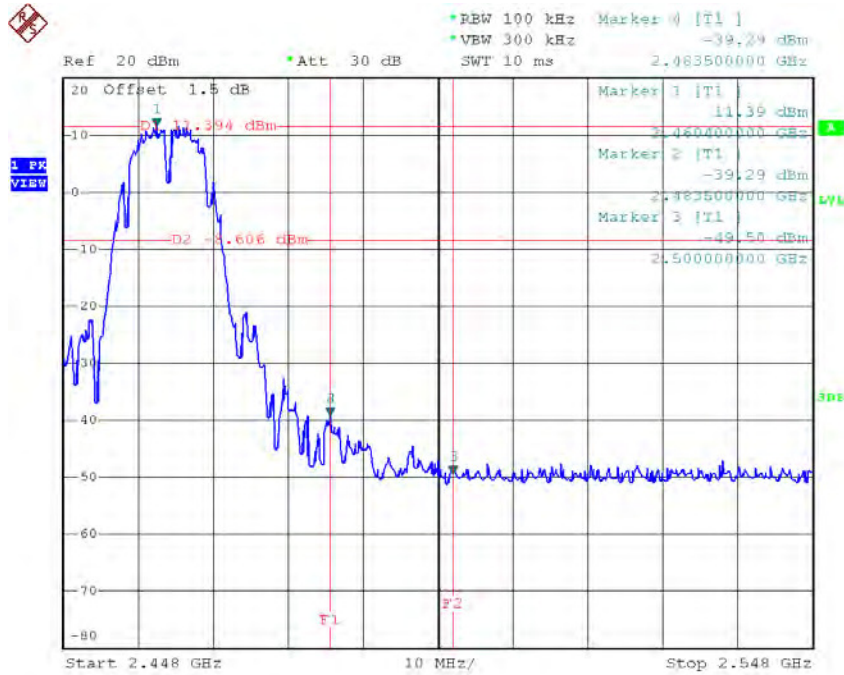
Test Mode : TX B Mode_ANT 1

TX B mode CH01



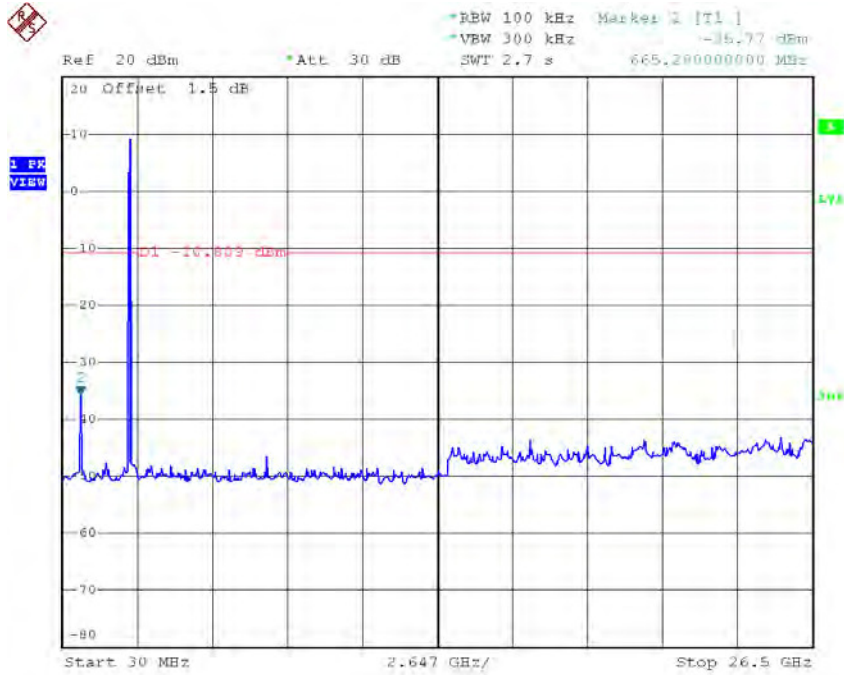
Date: 12.JUN.2016 15:12:58

TX B mode CH11



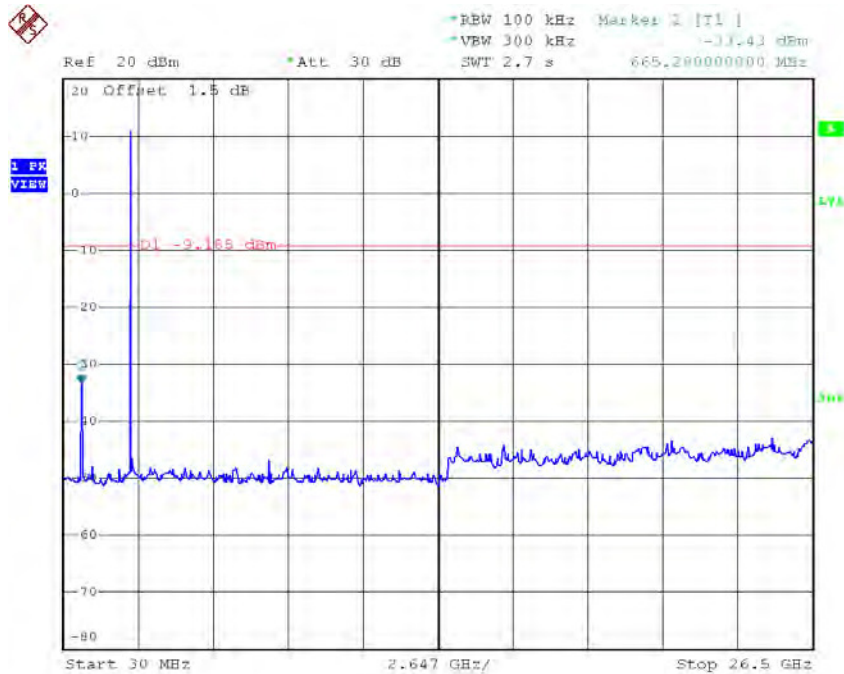
Date: 12.JUN.2016 15:15:43

TX B mode CH01 (10 Harmonic of the frequency)



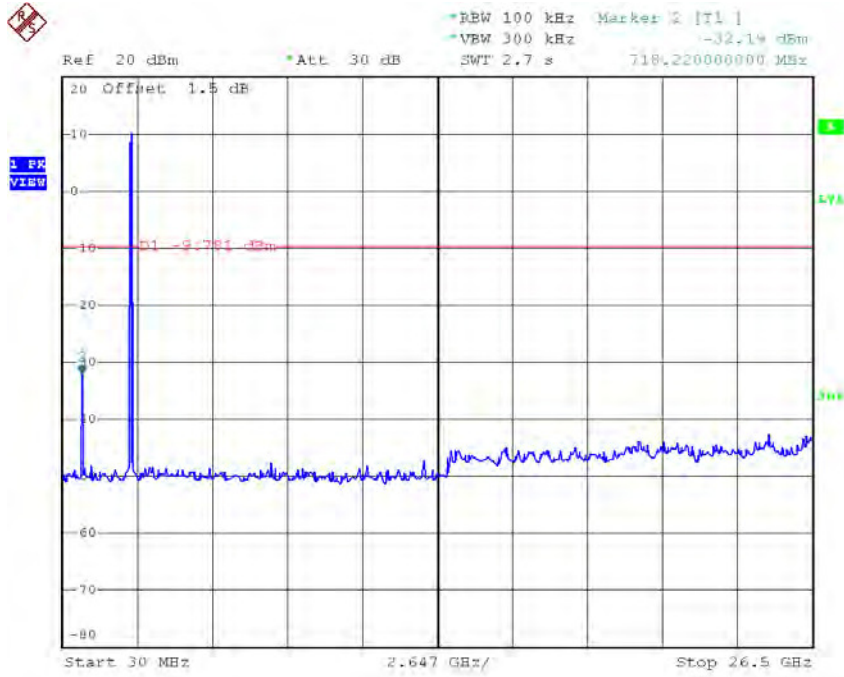
Date: 12.JUN.2016 15:12:50

TX B mode CH06 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:14:12

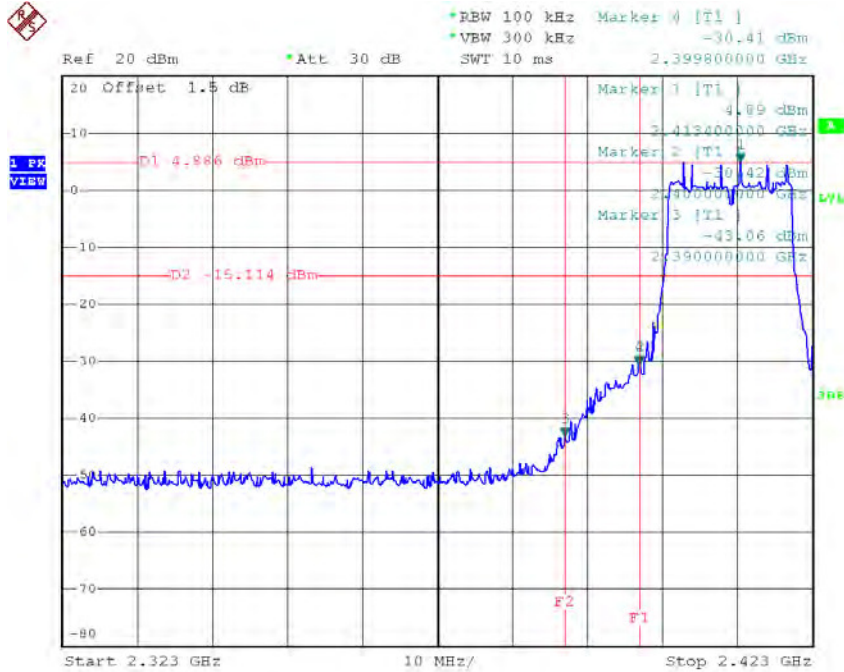
TX B mode CH11 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:15:35

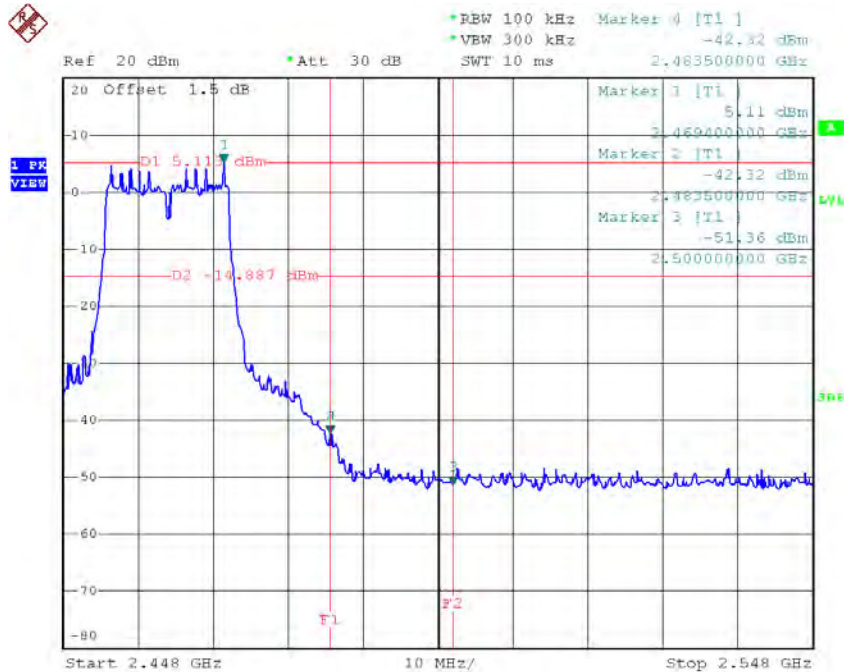
Test Mode : TX G Mode_ANT 1

TX G mode CH01



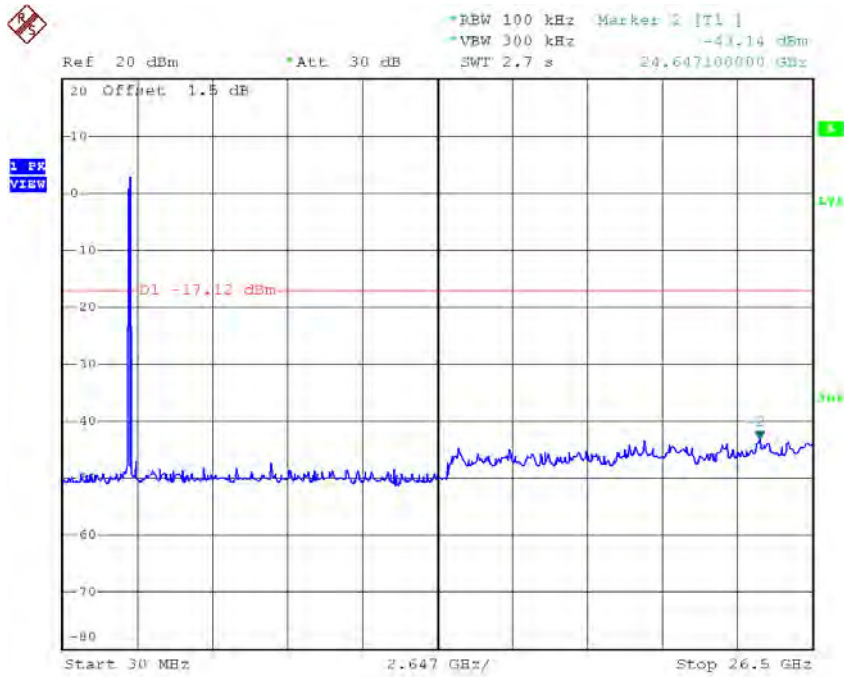
Date: 12.JUN.2016 15:17:51

TX G mode CH11



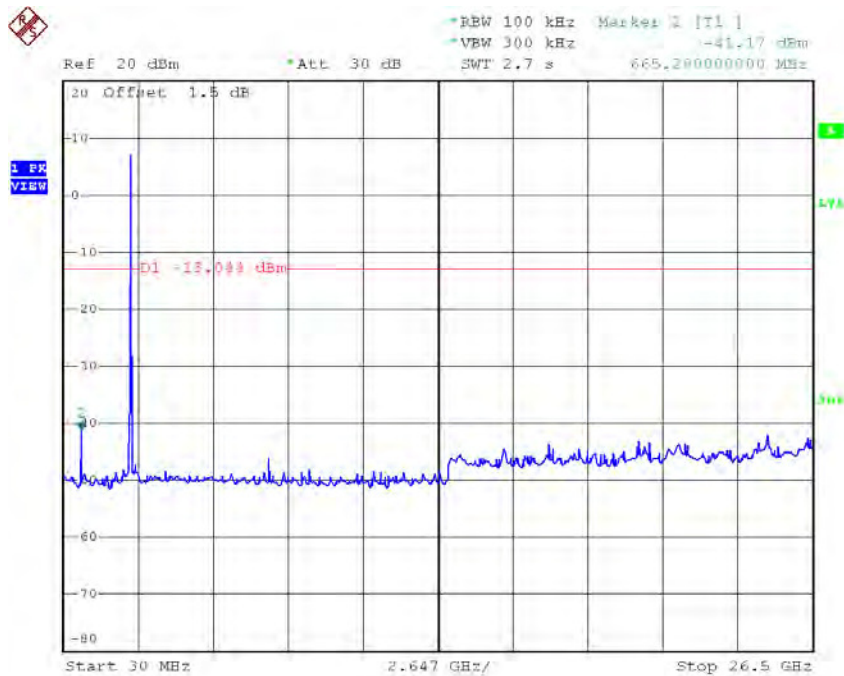
Date: 12.JUN.2016 15:20:47

TX G mode CH01 (10 Harmonic of the frequency)



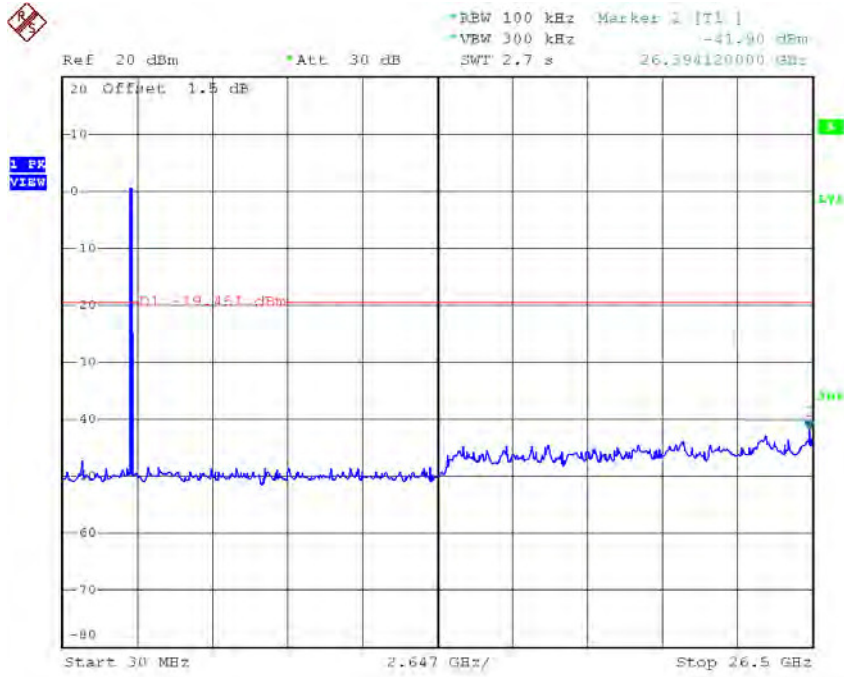
Date: 12.JUN.2016 15:17:43

TX G mode CH06 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:19:08

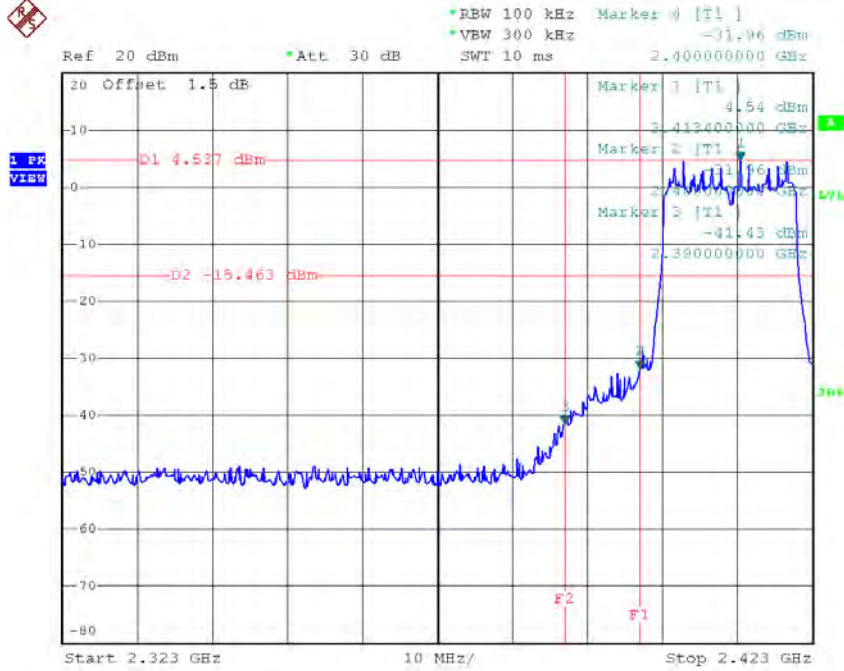
TX G mode CH11 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:20:39

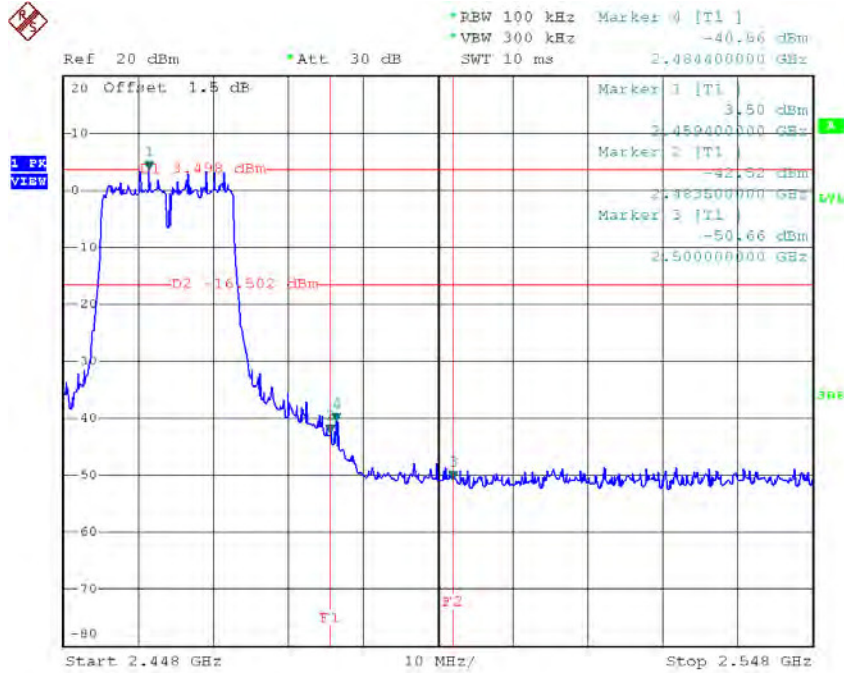
Test Mode : TX N-20M Mode_ANT 1

TX HT20 mode CH01



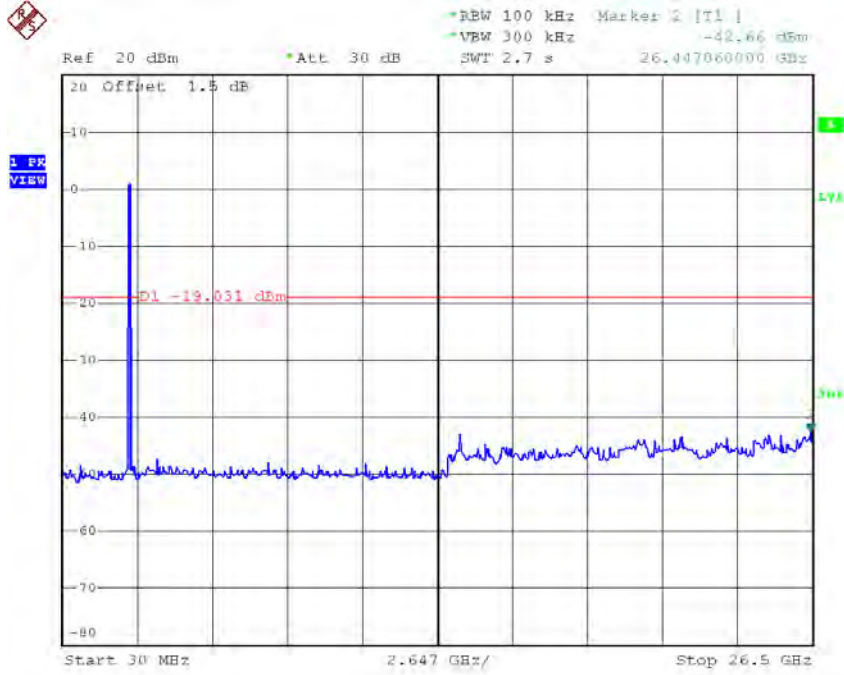
Date: 12.JUN.2016 15:22:36

TX HT20 mode CH11



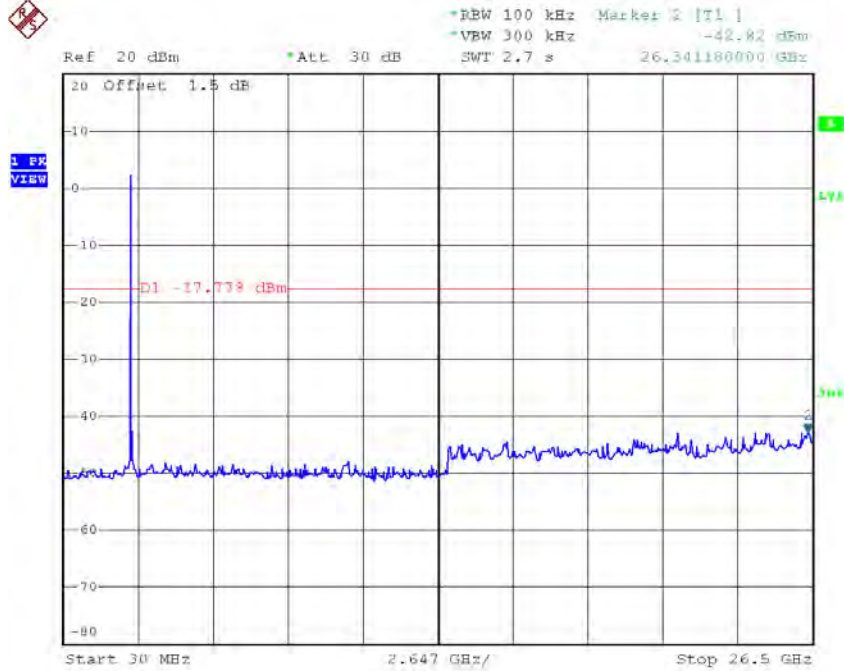
Date: 12.JUN.2016 15:25:44

TX HT20 mode CH01 (10 Harmonic of the frequency)



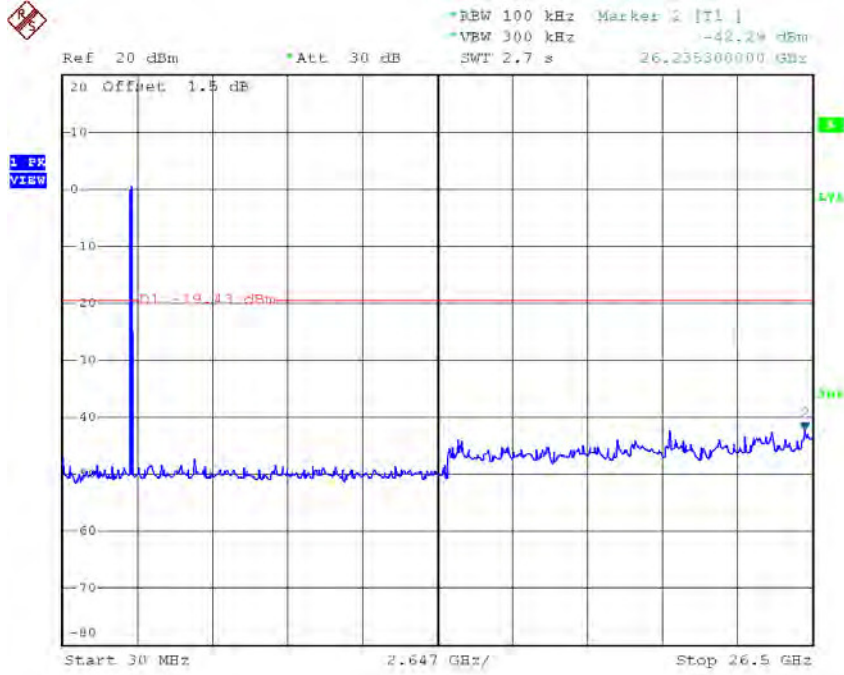
Date: 12.JUN.2016 15:22:28

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:24:16

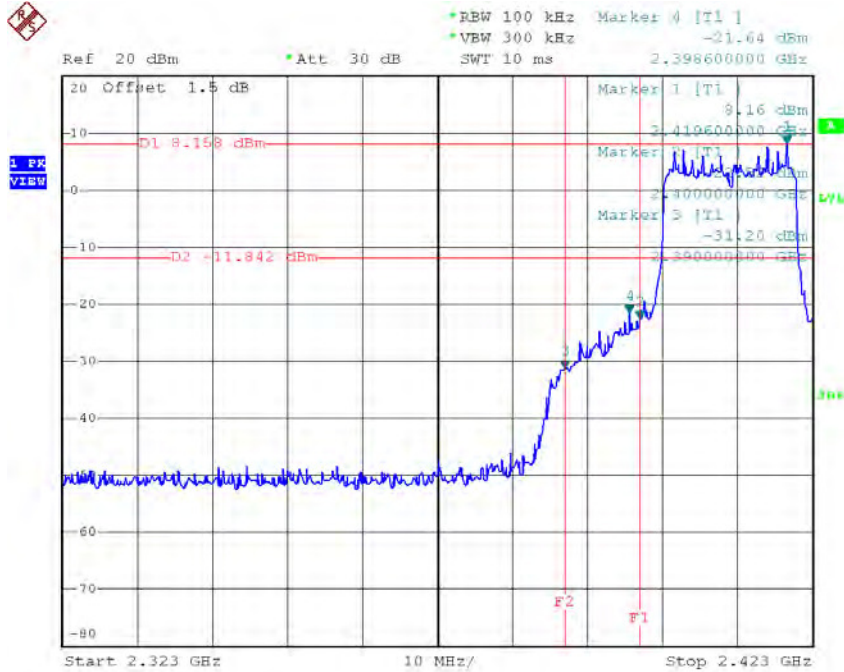
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:25:36

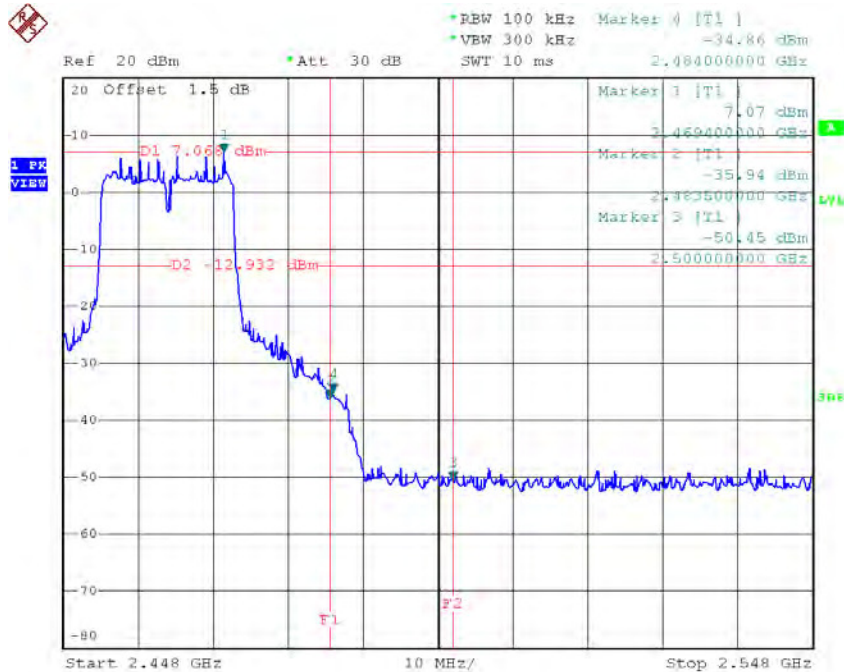
Test Mode : TX N-20M Mode_ANT 2

TX HT20 mode CH01



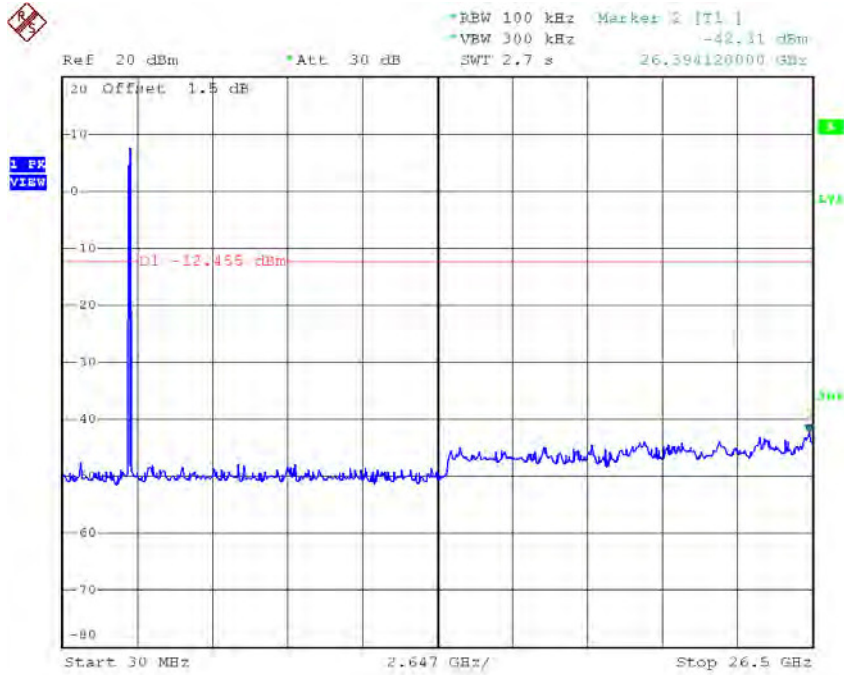
Date: 12.JUN.2016 15:27:43

TX HT20 mode CH11



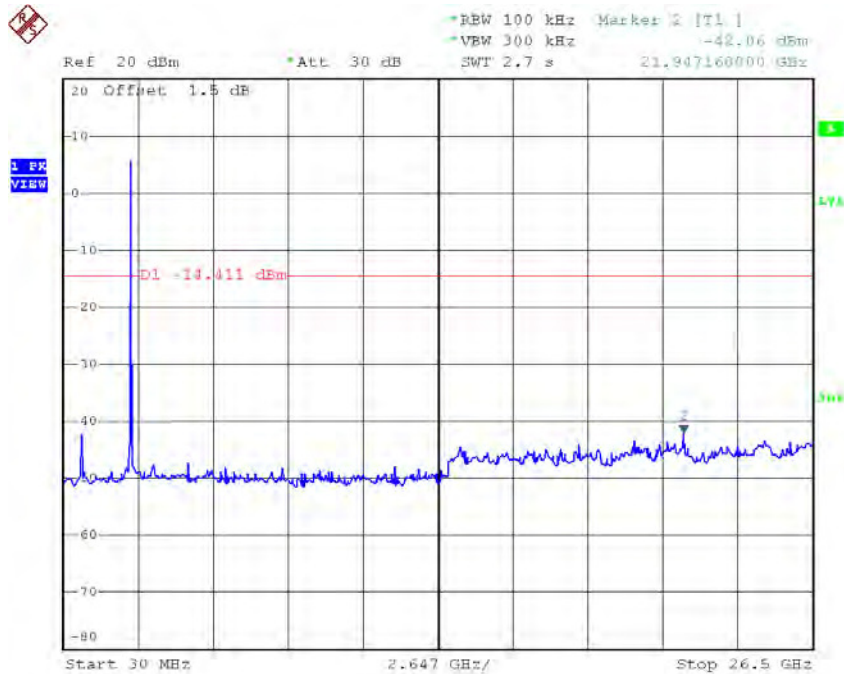
Date: 12.JUN.2016 15:38:23

TX HT20 mode CH01 (10 Harmonic of the frequency)



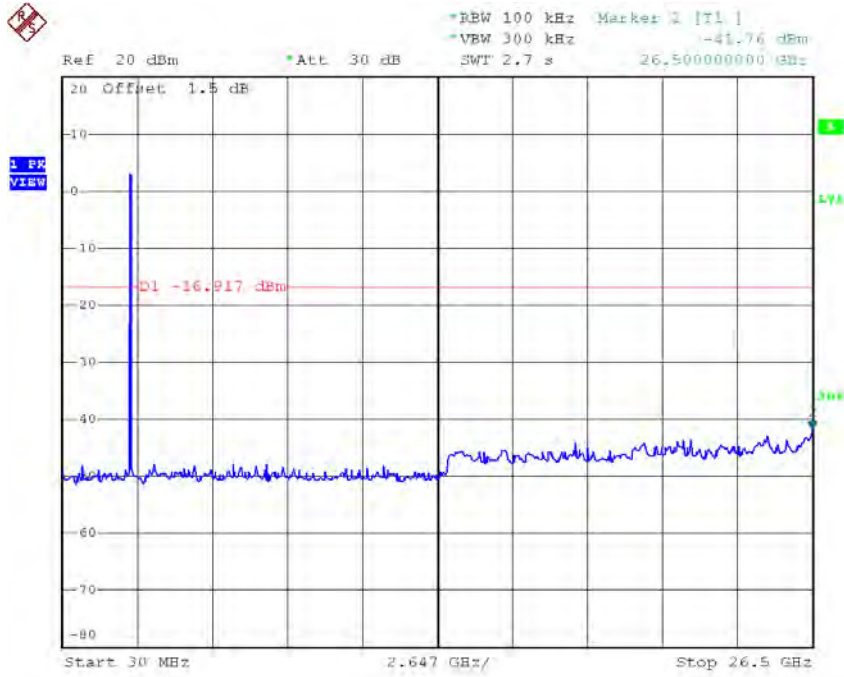
Date: 12.JUN.2016 15:27:35

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:37:12

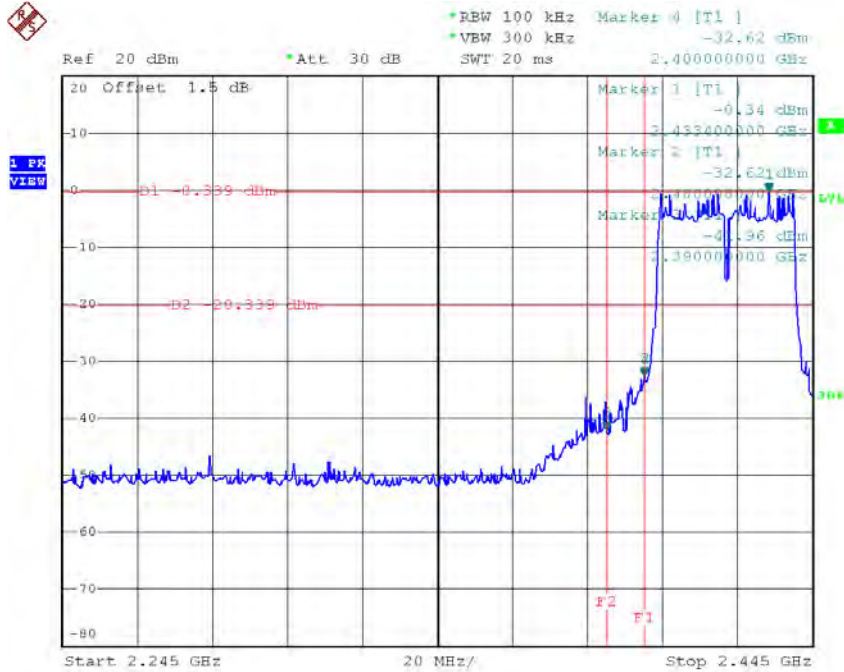
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:38:16

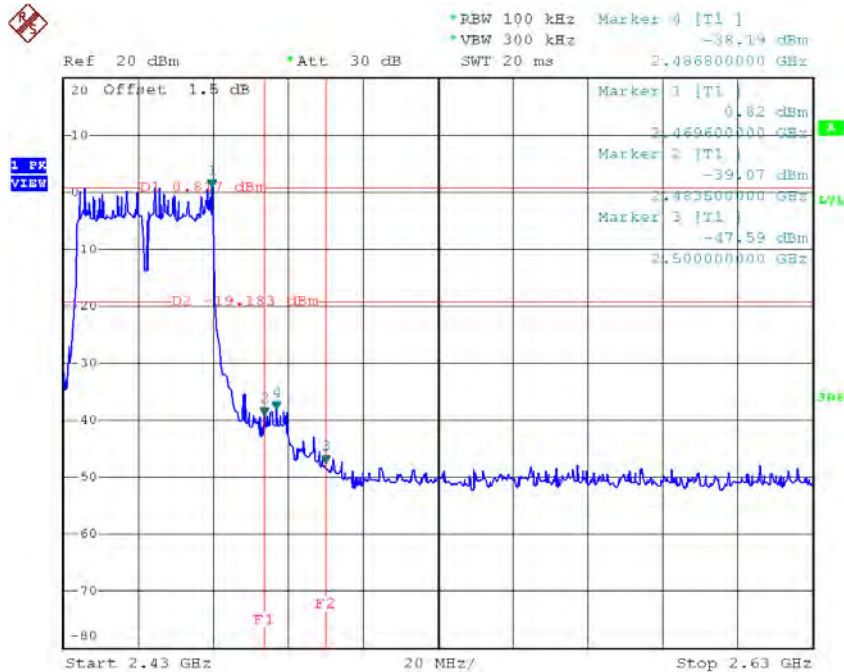
Test Mode : TX N-40M Mode_ANT 1

TX HT40 mode CH03



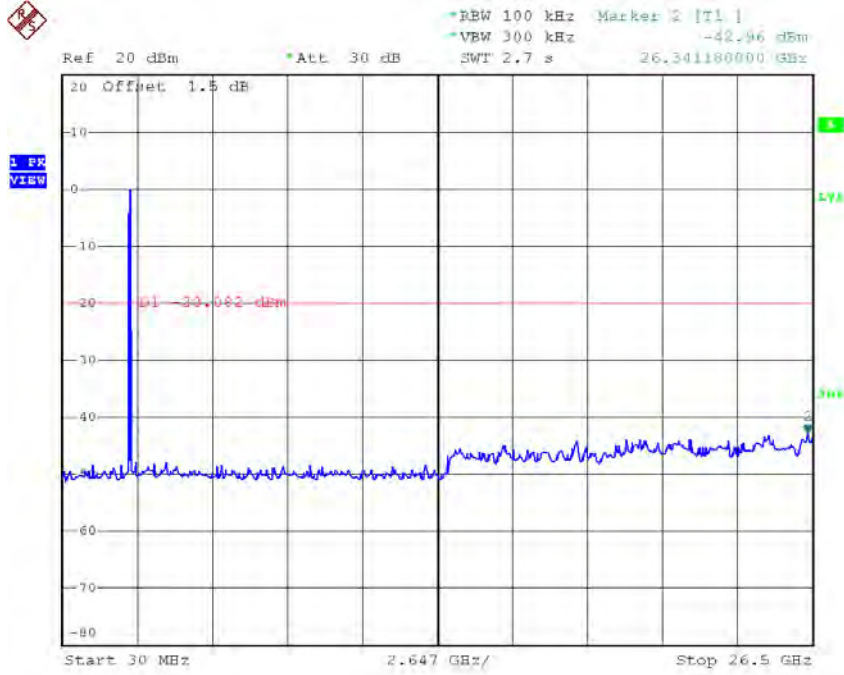
Date: 12.JUN.2016 15:40:47

TX HT40 mode CH09



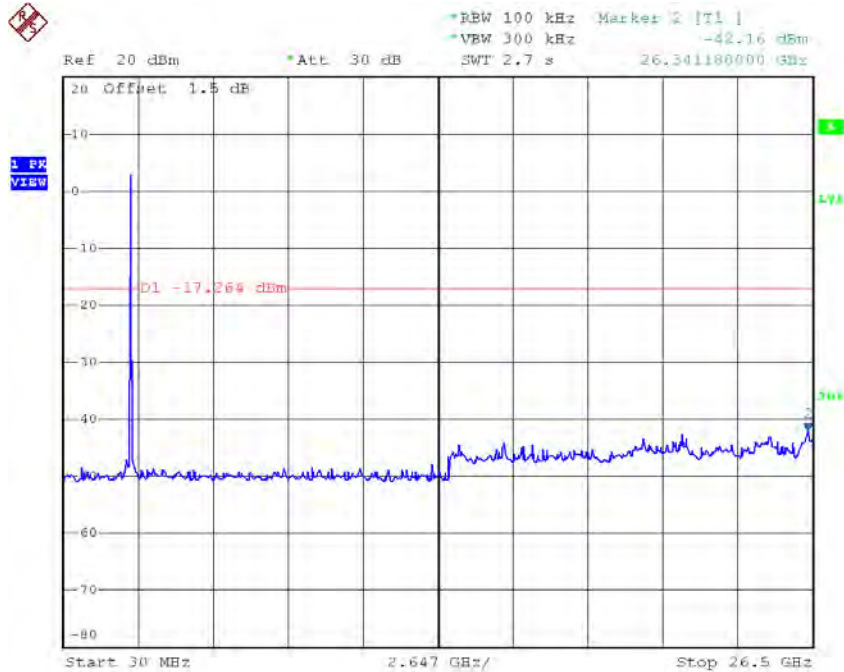
Date: 12.JUN.2016 15:43:18

TX HT40 mode CH03 (10 Harmonic of the frequency)



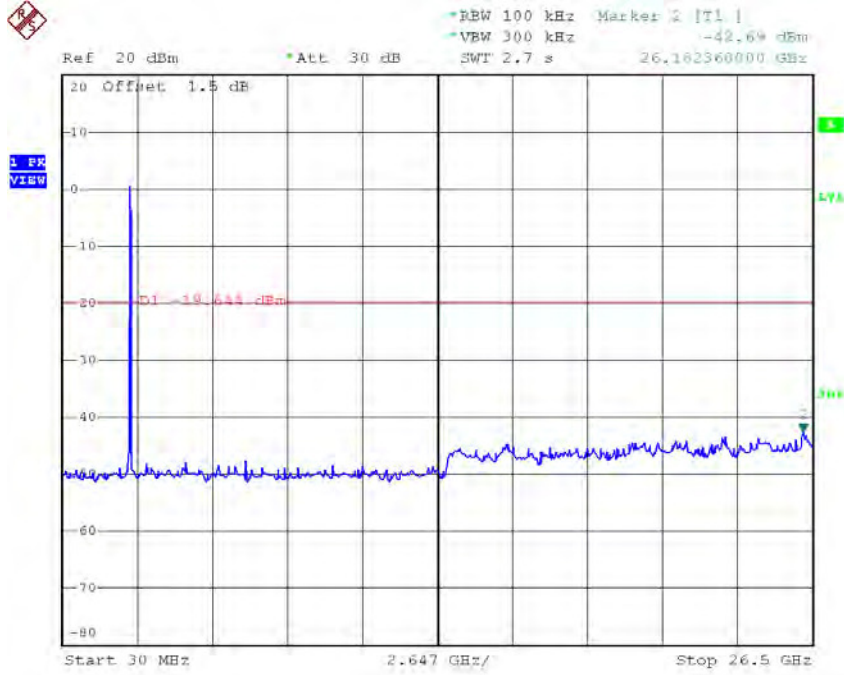
Date: 12.JUN.2016 15:40:40

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:41:55

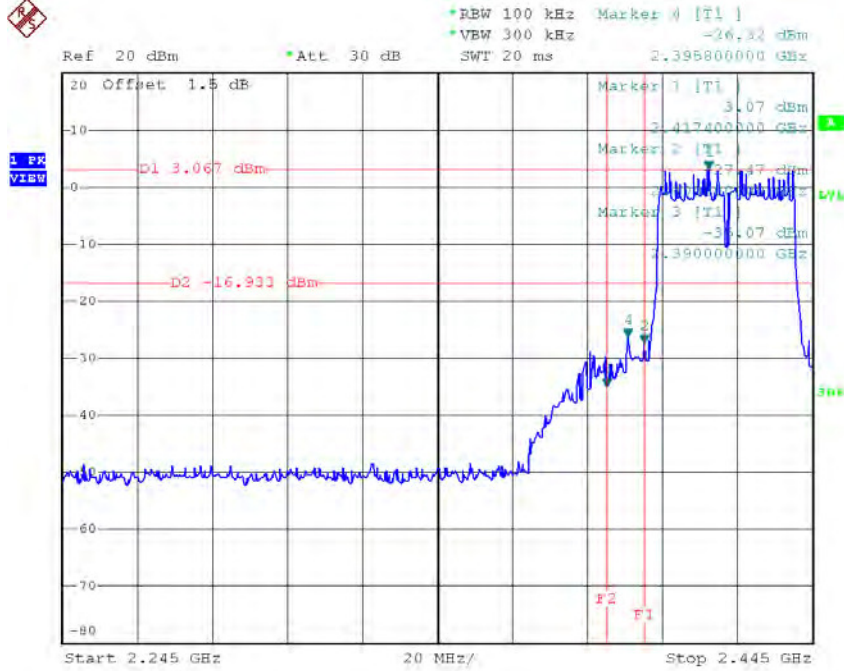
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:43:10

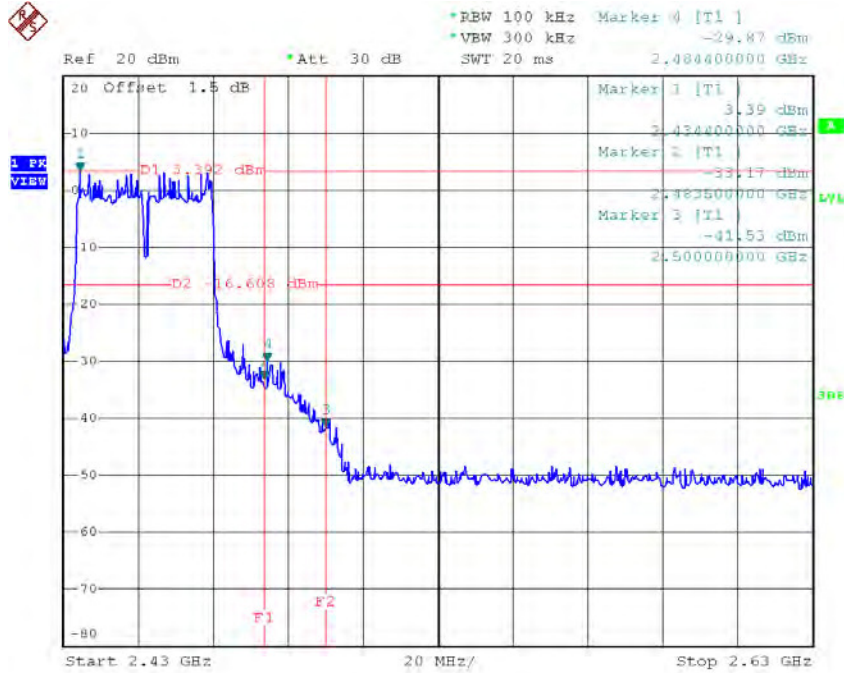
Test Mode : TX N-40M Mode_ANT 2

TX HT40 mode CH03



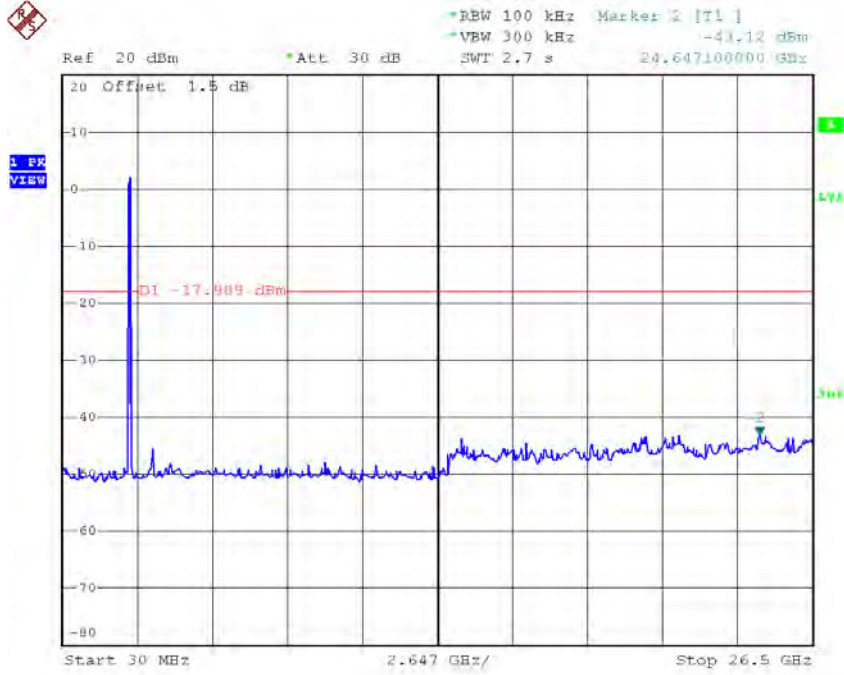
Date: 12.JUN.2016 15:47:14

TX HT40 mode CH09



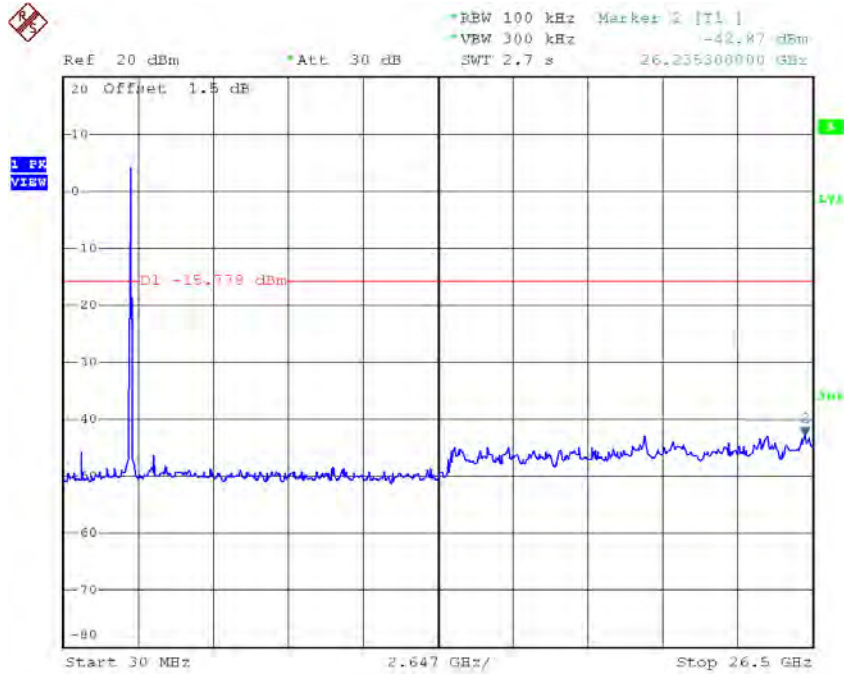
Date: 12.JUN.2016 15:49:35

TX HT40 mode CH03 (10 Harmonic of the frequency)



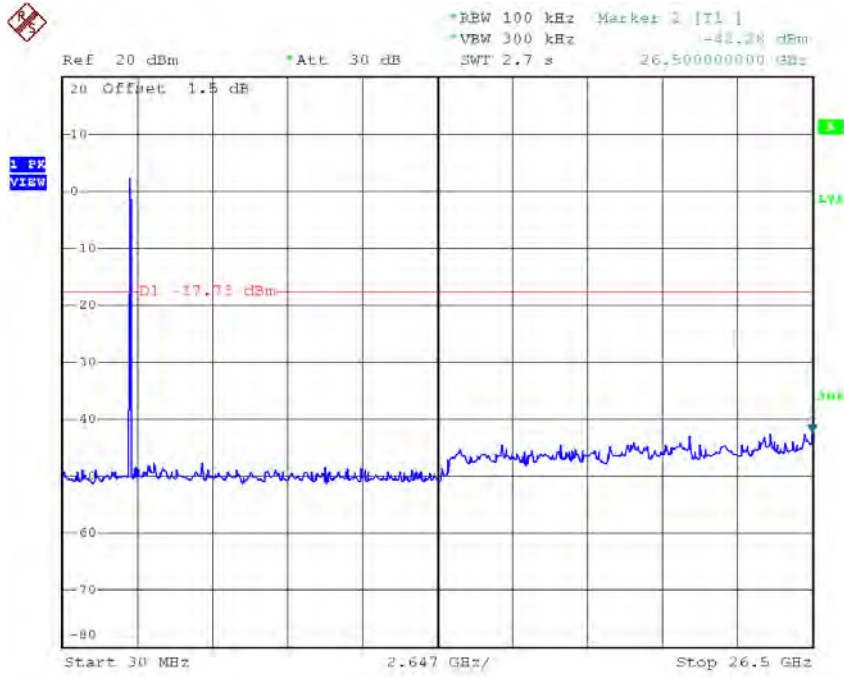
Date: 12.JUN.2016 15:47:06

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 12.JUN.2016 15:48:22

TX HT40 mode CH09 (10 Harmonic of the frequency)

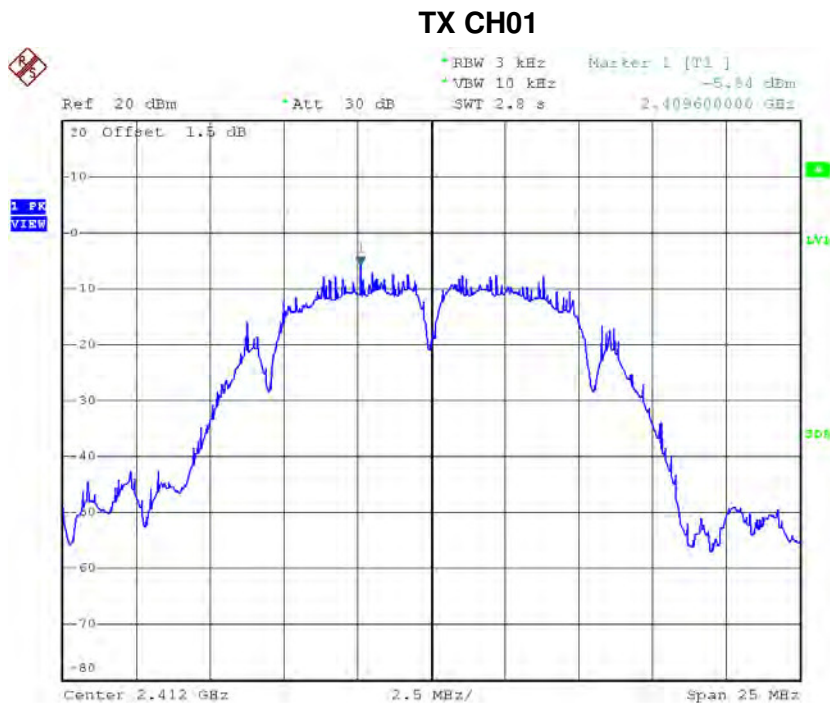


Date: 12.JUN.2016 15:49:28

ATTACHMENT H - POWER SPECTRAL DENSITY

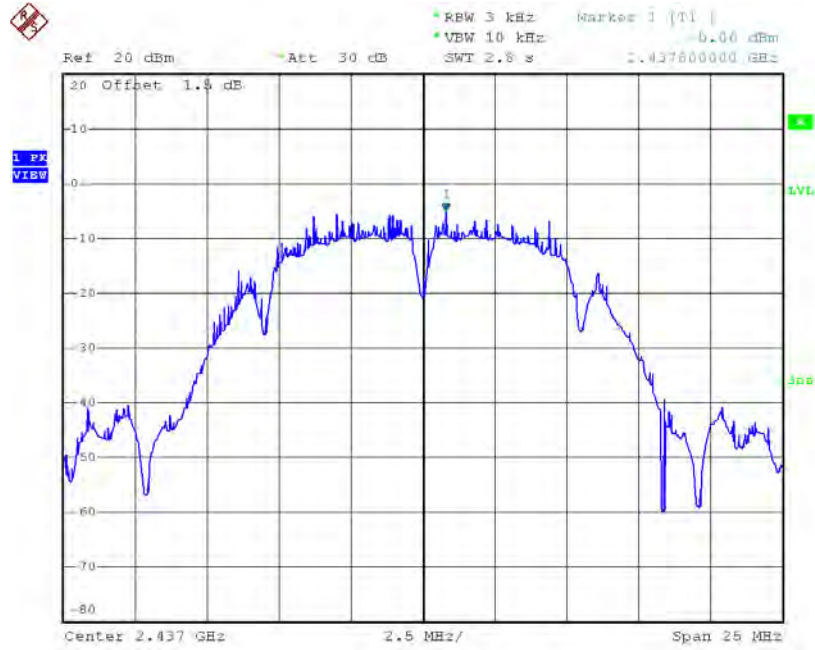
Test Mode :TX B Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-5.84	0.2606	8.00	Complies
2437	-5.06	0.3119	8.00	Complies
2462	-5.66	0.2716	8.00	Complies



Date: 12.JUN.2016 15:13:07

TX CH06



Date: 12.JUN.2016 15:14:21

TX CH11

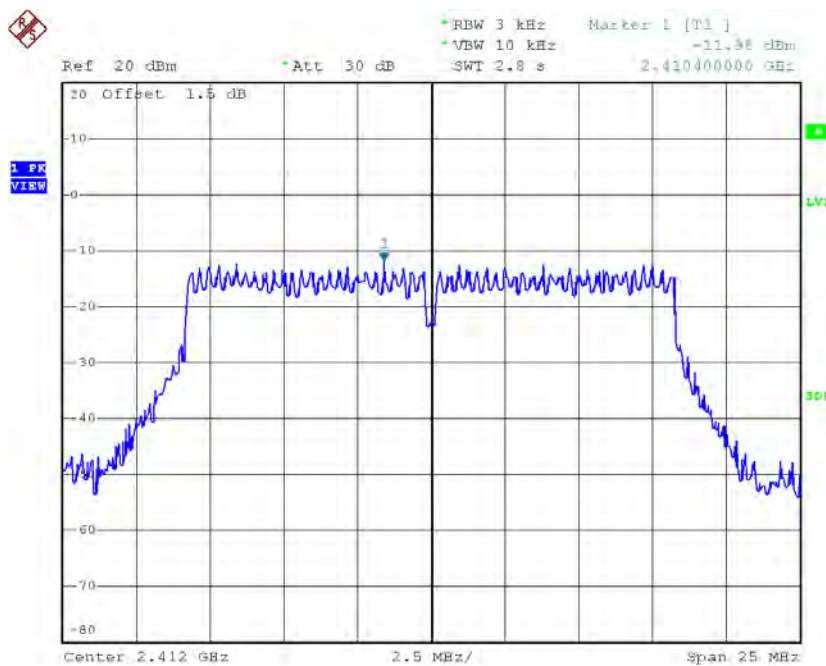


Date: 12.JUN.2016 15:16:20

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

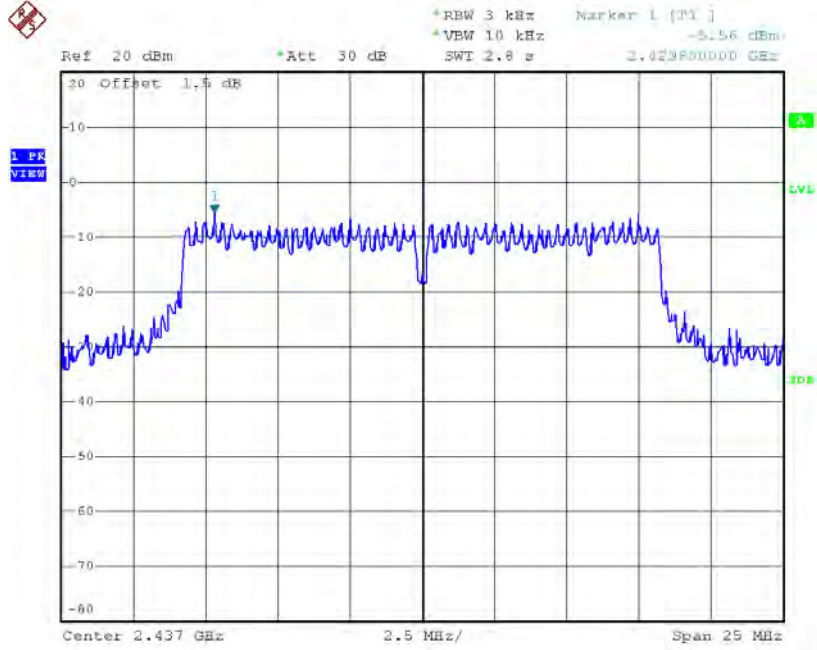
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.98	0.0634	8.00	Complies
2437	-5.56	0.2780	8.00	Complies
2462	-11.98	0.0634	8.00	Complies

TX CH01



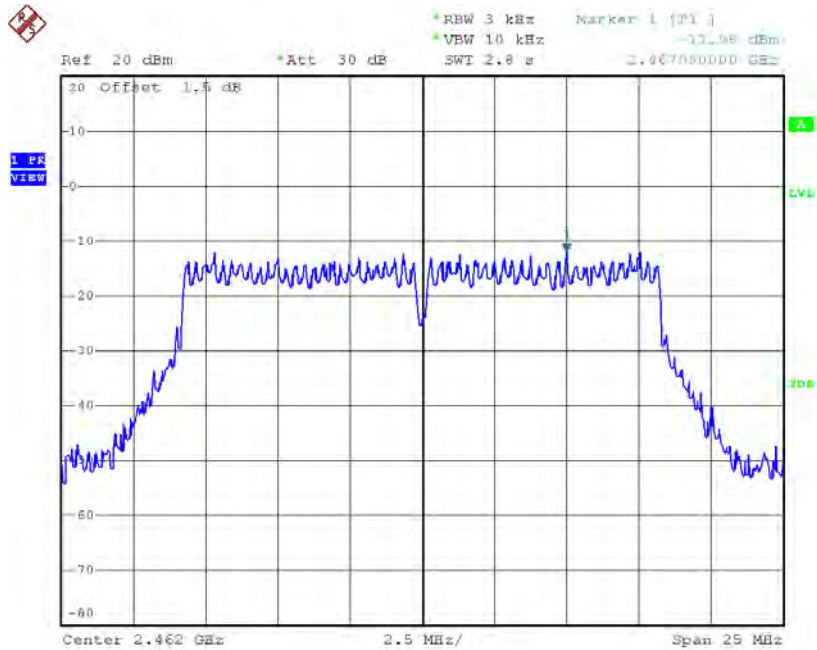
Date: 12.JUN.2016 15:18:00

TX CH06



Date: 12.JUN.2016 15:19:17

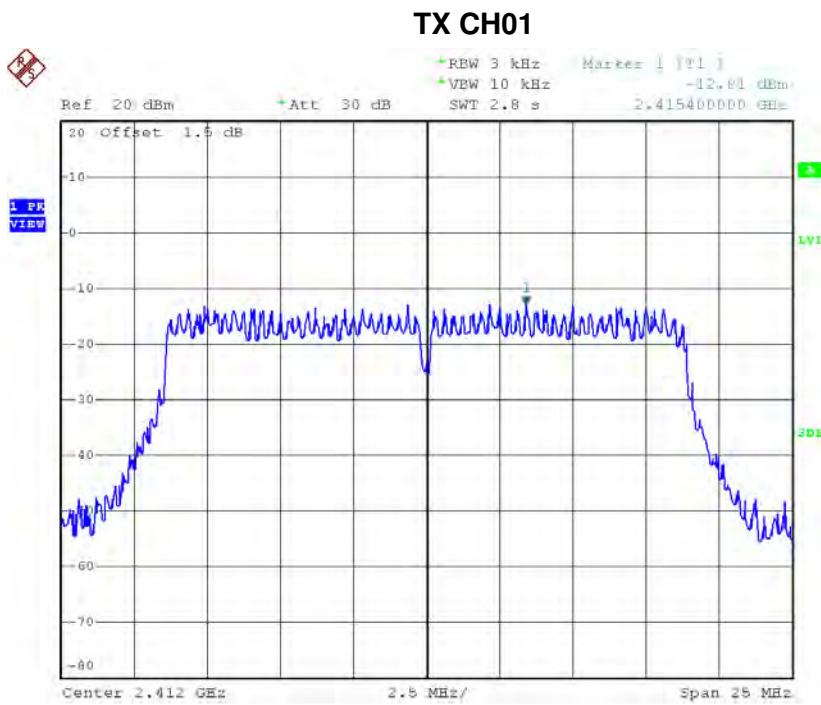
TX CH11



Date: 12.JUN.2016 15:20:56

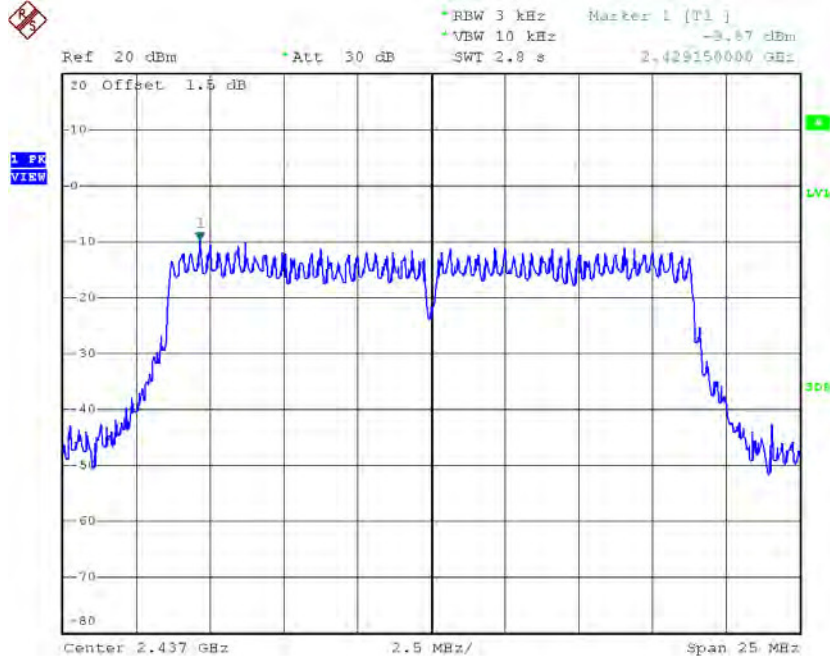
Test Mode : TX N-20M Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.81	0.0524	8.00	Complies
2437	-9.87	0.1030	8.00	Complies
2462	-11.35	0.0733	8.00	Complies



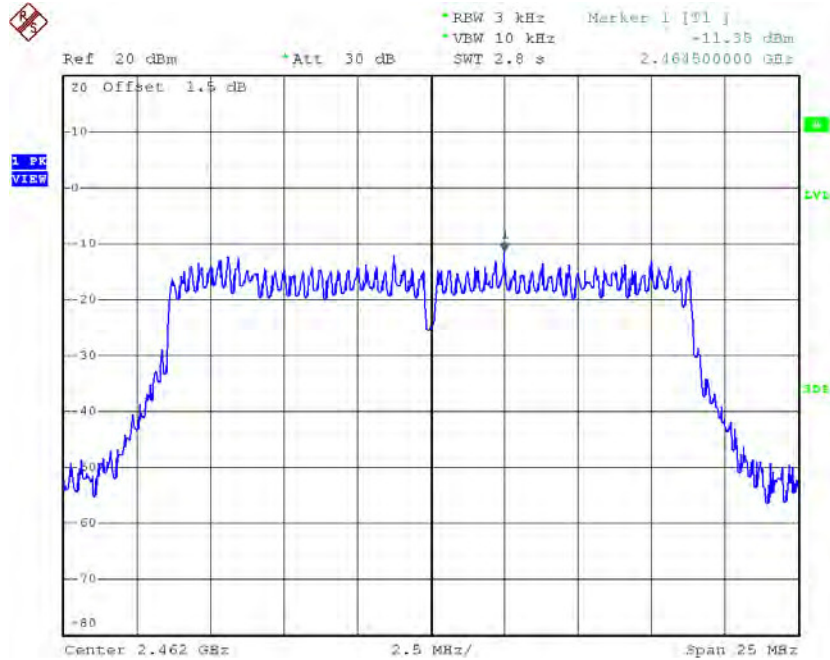
Date: 12.JUN.2016 15:22:45

TX CH06



Date: 12.JUN.2016 15:24:25

TX CH11

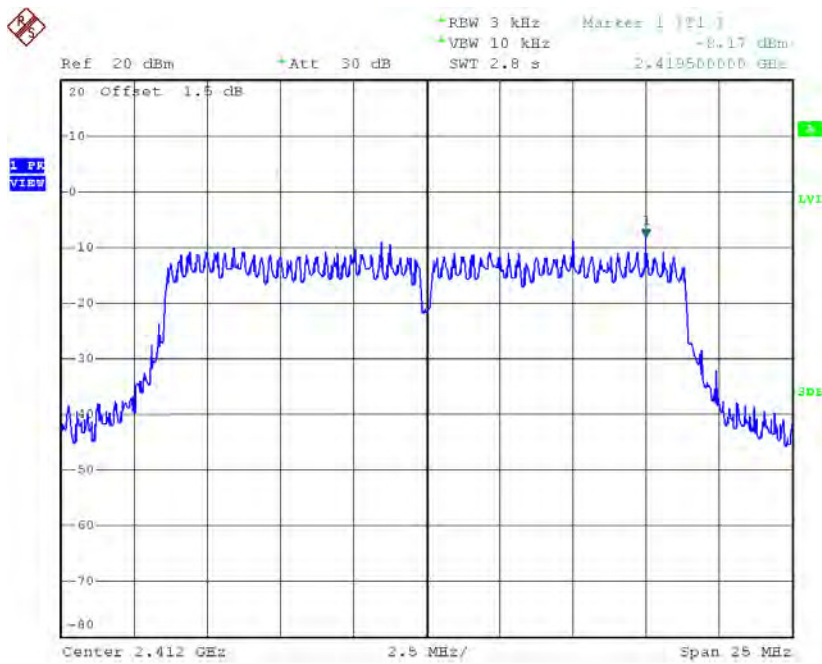


Date: 12.JUN.2016 15:25:53

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

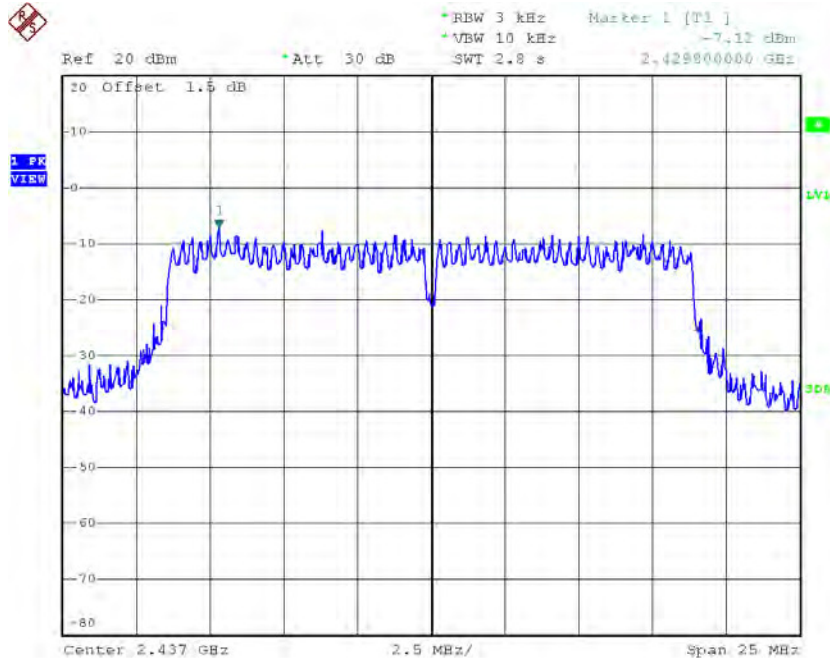
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.17	0.1524	8.00	Complies
2437	-7.12	0.1941	8.00	Complies
2462	-9.64	0.1086	8.00	Complies

TX CH01



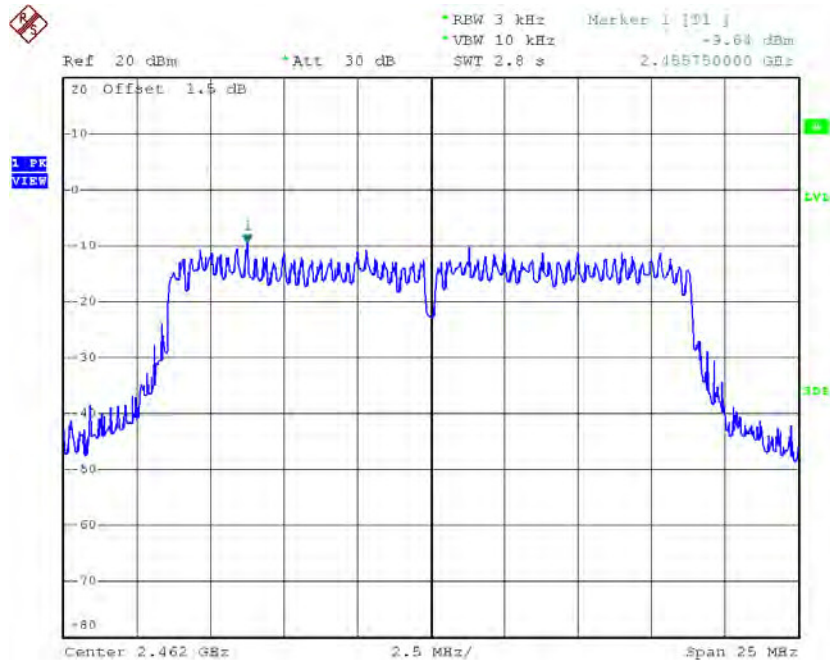
Date: 12.JUN.2016 15:27:52

TX CH06



Date: 12.JUN.2016 15:37:21

TX CH11



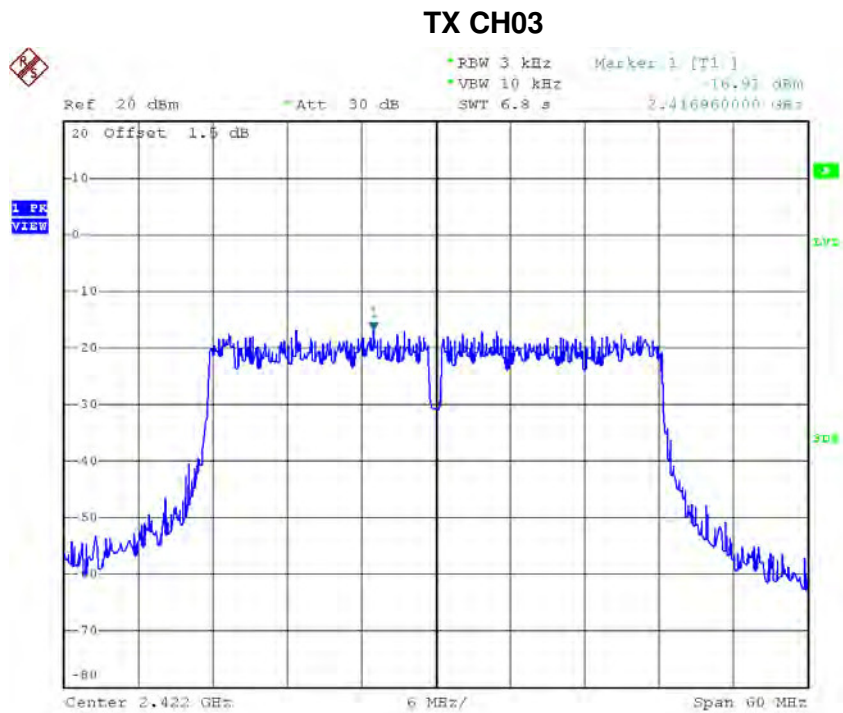
Date: 12.JUN.2016 15:38:33

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	-6.99	0.2000	8.00	Complies
2437	-5.38	0.2900	8.00	Complies
2462	-7.45	0.1800	8.00	Complies

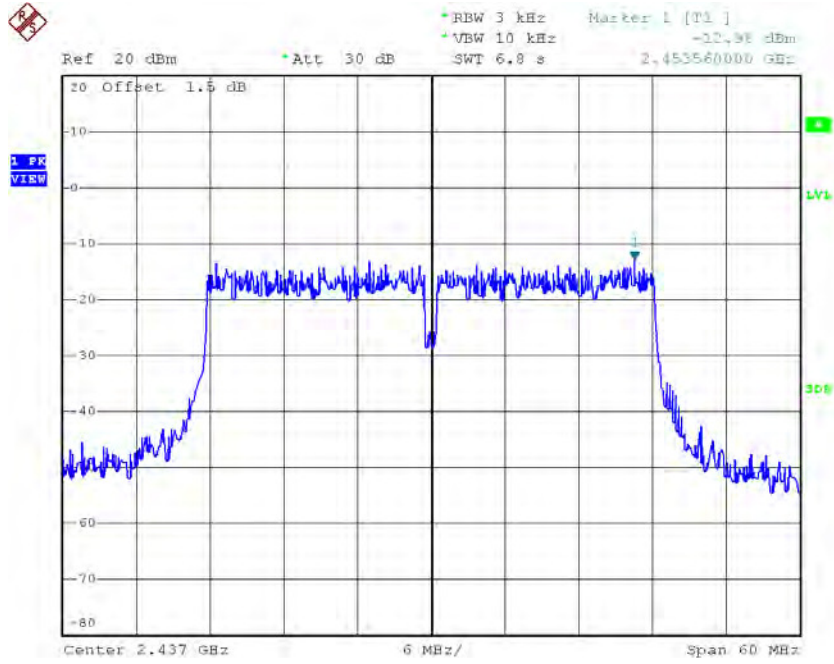
Test Mode : TX N-40M Mode_CH03/06/09_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.91	0.0204	8.00	Complies
2437	-12.98	0.0504	8.00	Complies
2452	-15.21	0.0301	8.00	Complies



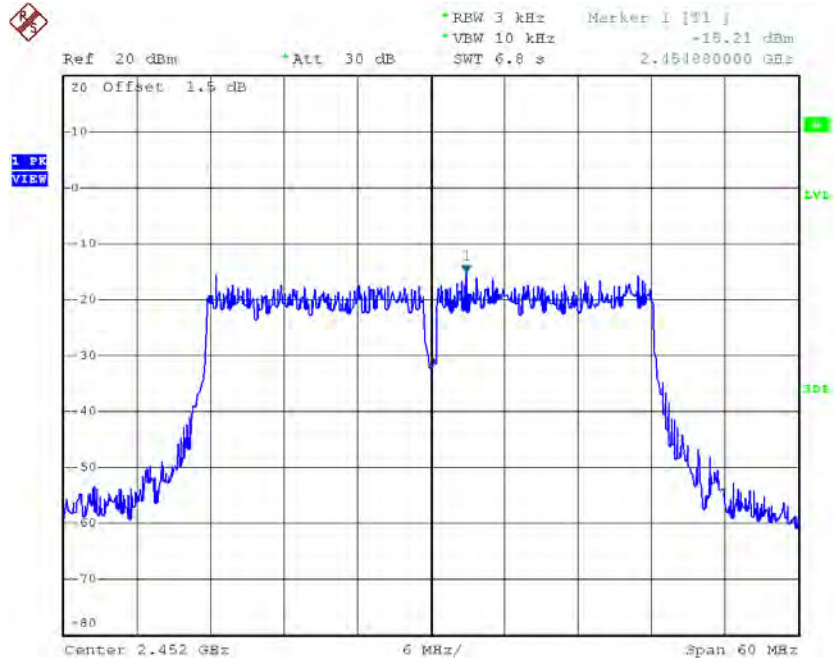
Date: 12.JUN.2016 15:41:00

TX CH06



Date: 12.JUN.2016 15:42:07

TX CH09

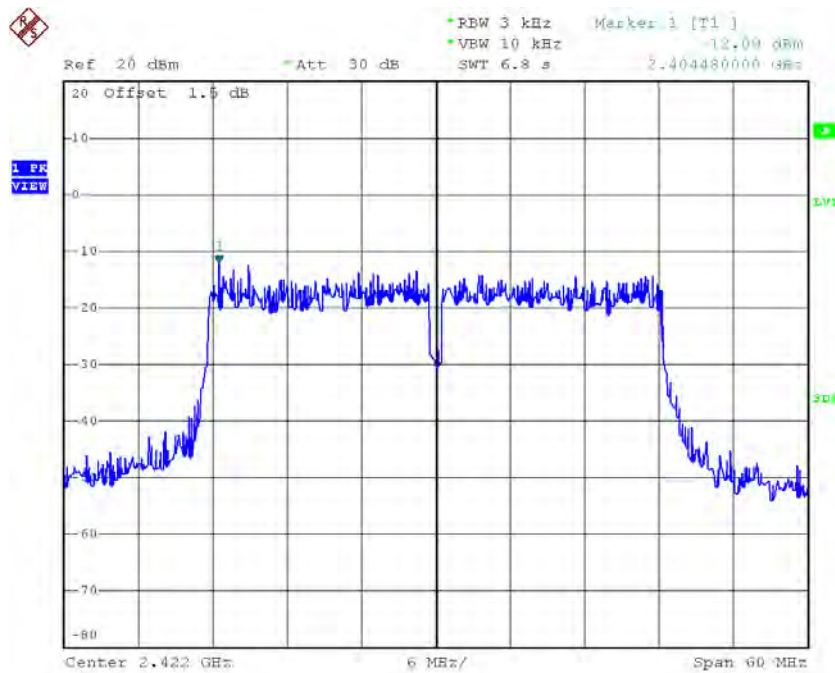


Date: 12.JUN.2016 15:43:30

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

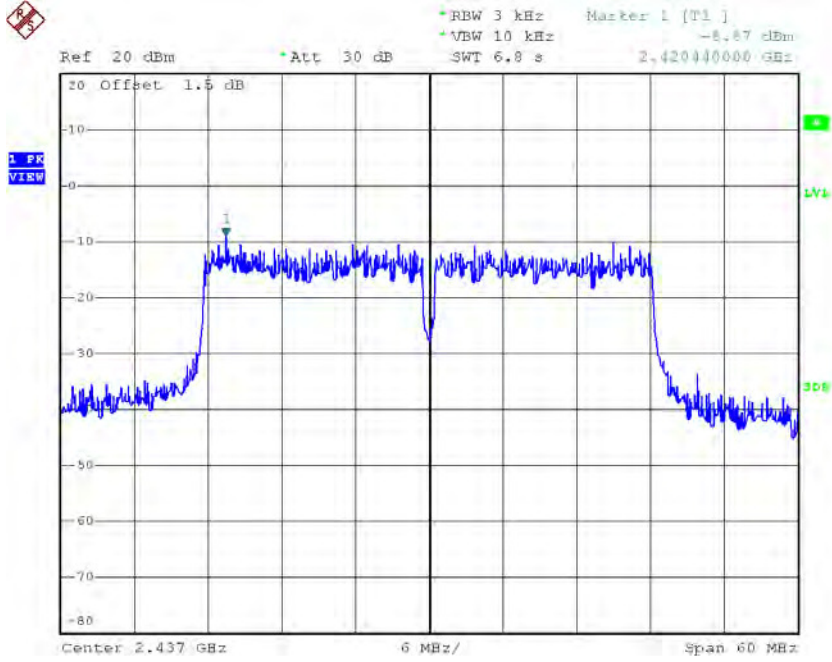
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-12.09	0.0618	8.00	Complies
2437	-8.87	0.1297	8.00	Complies
2452	-11.36	0.0731	8.00	Complies

TX CH03



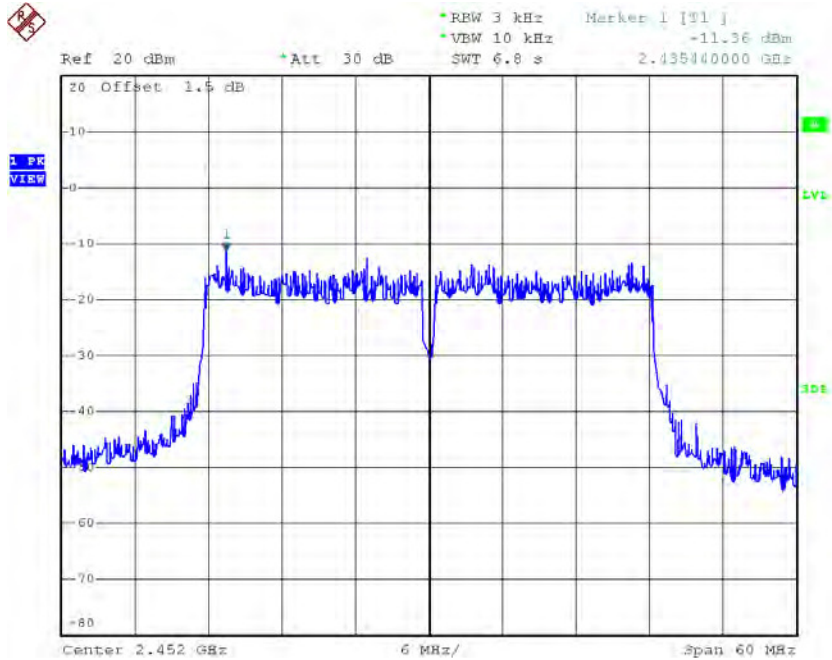
Date: 12.JUN.2016 15:47:26

TX CH06



Date: 12.JUN.2016 15:48:34

TX CH09



Date: 12.JUN.2016 15:49:47

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	-10.97	0.0800	8.00	Complies
2437	-7.45	0.1800	8.00	Complies
2452	-10.00	0.1000	8.00	Complies