

FCC Radio Test Report

FCC ID: V7TU9V

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

Project No. : 1804C310
Equipment : AC650 Auto-Install Mini Wireless Dual Band Adapter
Test Model : U9
Series Model : N/A
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
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Date of Receipt : Apr. 28, 2018
Date of Test : May 02, 2018 ~ May 11, 2018
Issued Date : May 17, 2018
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1804C310	Original Issue.	May 17, 2018

1. CERTIFICATION

Equipment : AC650 Auto-Install Mini Wireless Dual Band Adapter
Brand Name : Tenda
Test Model : U9
Series Model : N/A
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,
Shenzhen, China. 518052
Date of Test : May 02, 2018 ~ May 11, 2018
Test Sample : Engineering Sample NO.:D180403428
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-1-1804C310) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP 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	
15.247(d)/ 15.205/ 15.209	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: 854385

BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$.

The BTL measurement uncertainty as below table:

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	AC650 Auto-Install Mini Wireless Dual Band Adapter	
Brand Name	Tenda	
Test Model	U9	
Series Model	N/A	
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 200 Mbps
	Output Power (Max.)	802.11b: 9.47dBm 802.11g: 9.62dBm 802.11n(20MHz): 9.58dBm 802.11n(40MHz): 9.56dBm
Power Source	Supplied from PC USB port.	
Power Rating	DC 5V	

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)
1	N/A	N/A	Internal	N/A	1

3.2 DESCRIPTION OF TEST MODES

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

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

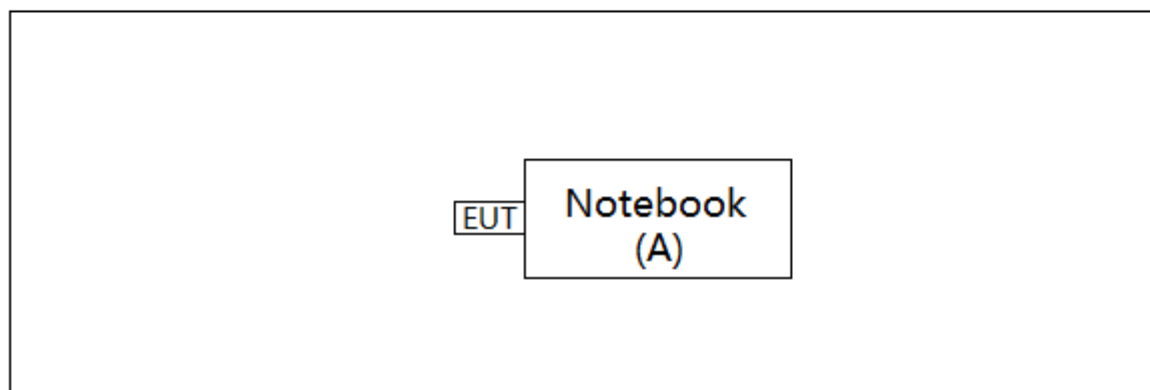
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (6.5Mbps)
 802.11n HT40 mode : BPSK (13.5Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3)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

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	Win7_MP_Kit_RTL11ac_8821CU_USB_v3.02_20171213(BETA)		
Frequency (MHz)	2412	2437	2462
802.11b	20	21	21
802.11g	33	33	34
802.11n (20MHz)	33	33	34
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	33	33	34

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	Lenovo	INSPIRON 1420-	DOC	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

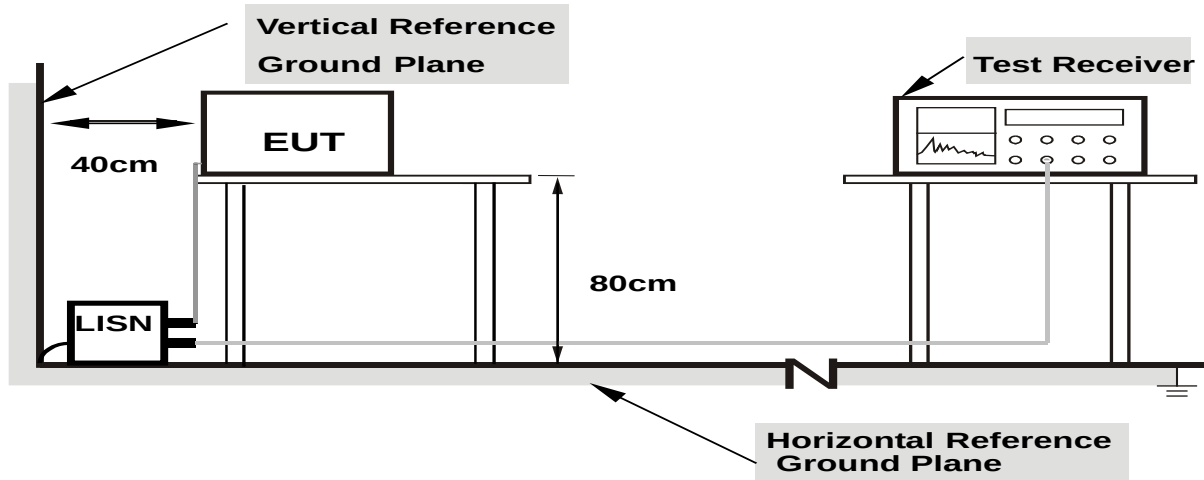
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment 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 Appendix A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

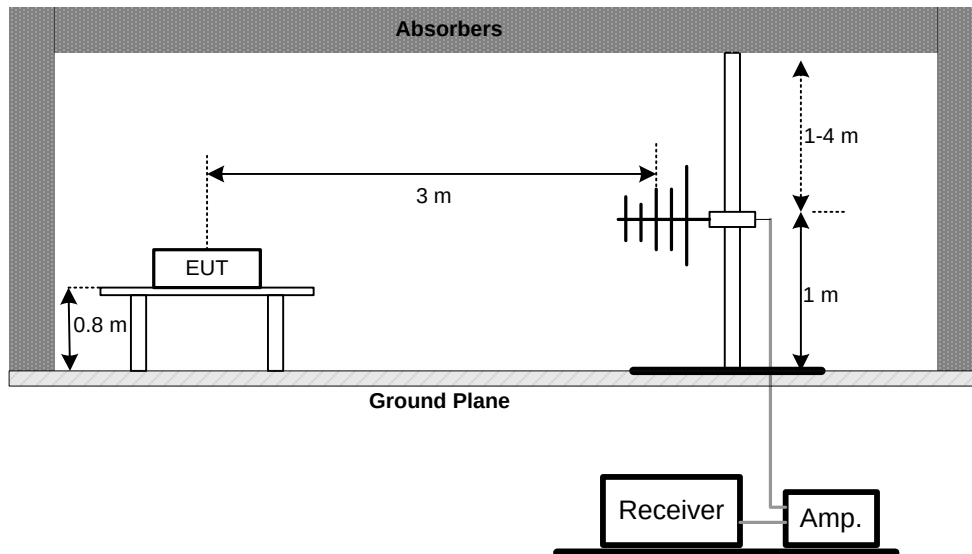
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

4.2.3 DEVIATION FROM TEST STANDARD

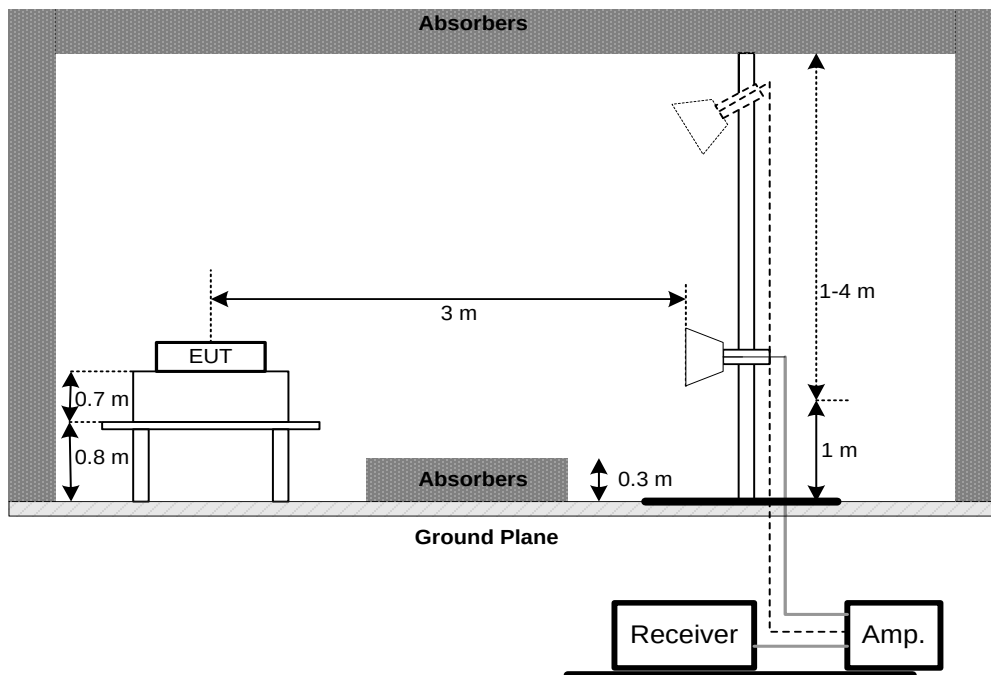
No deviation

4.2.4 TEST SETUP

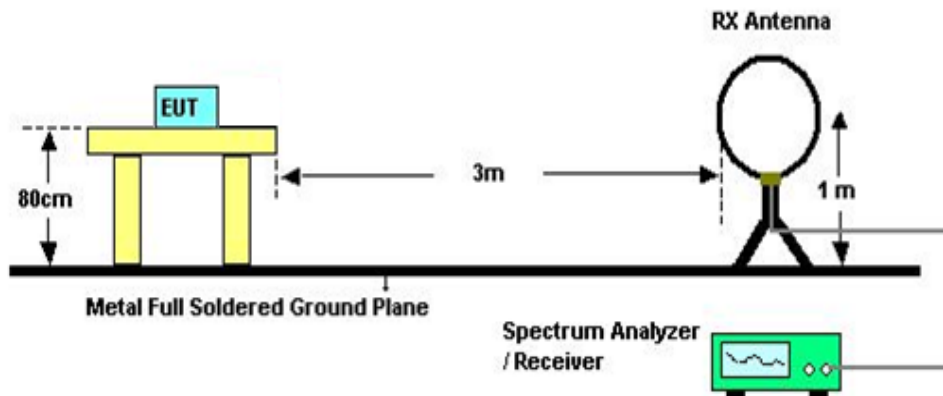
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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 1000MHZ)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

5.1.6 TEST RESULTS

Please refer to the Appendix E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

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

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: DC 5V

6.1.6 TEST RESULTS

Please refer to the Appendix 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.

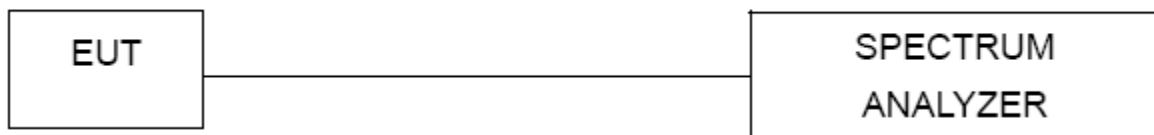
7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- 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: DC 5V

7.1.6 TEST RESULTS

Please refer to the Appendix G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

8.1.6 TEST RESULTS

Please refer to the Appendix 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. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 19, 2018

Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019

Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 11, 2019
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 11, 2019

Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

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

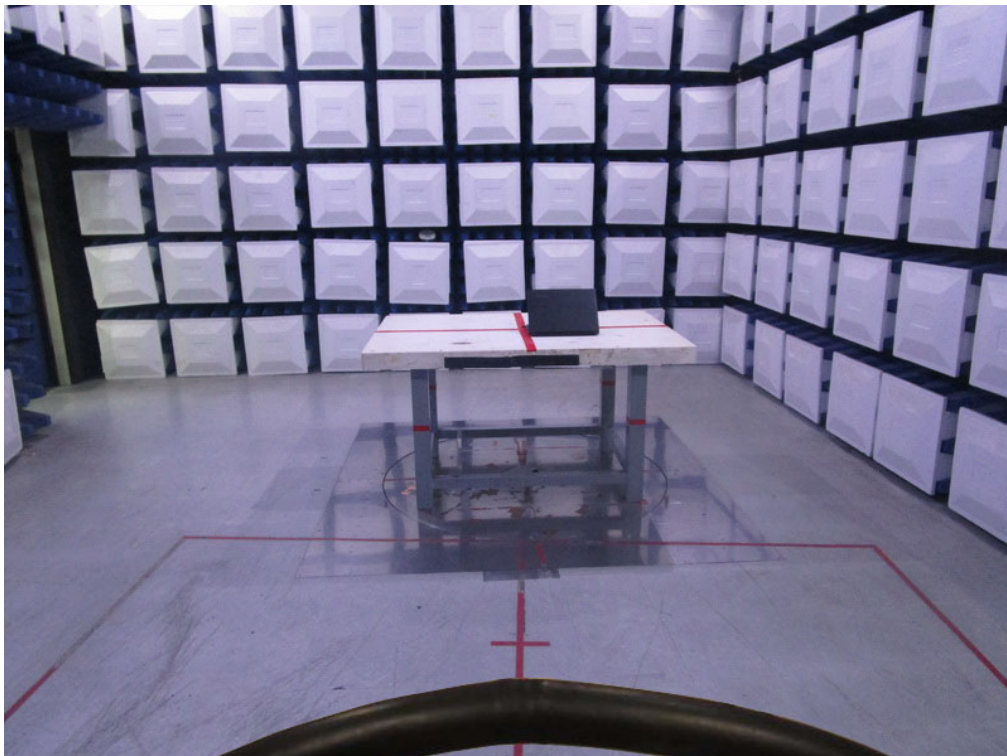
10. EUT TEST PHOTO

Conducted Measurement Photos



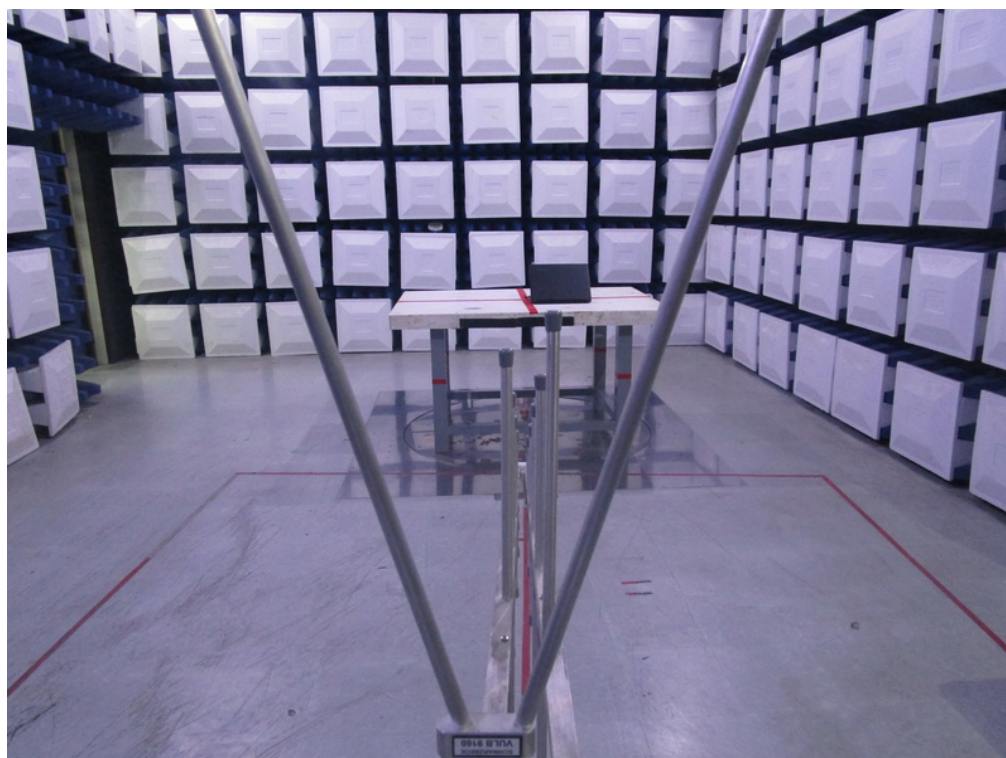
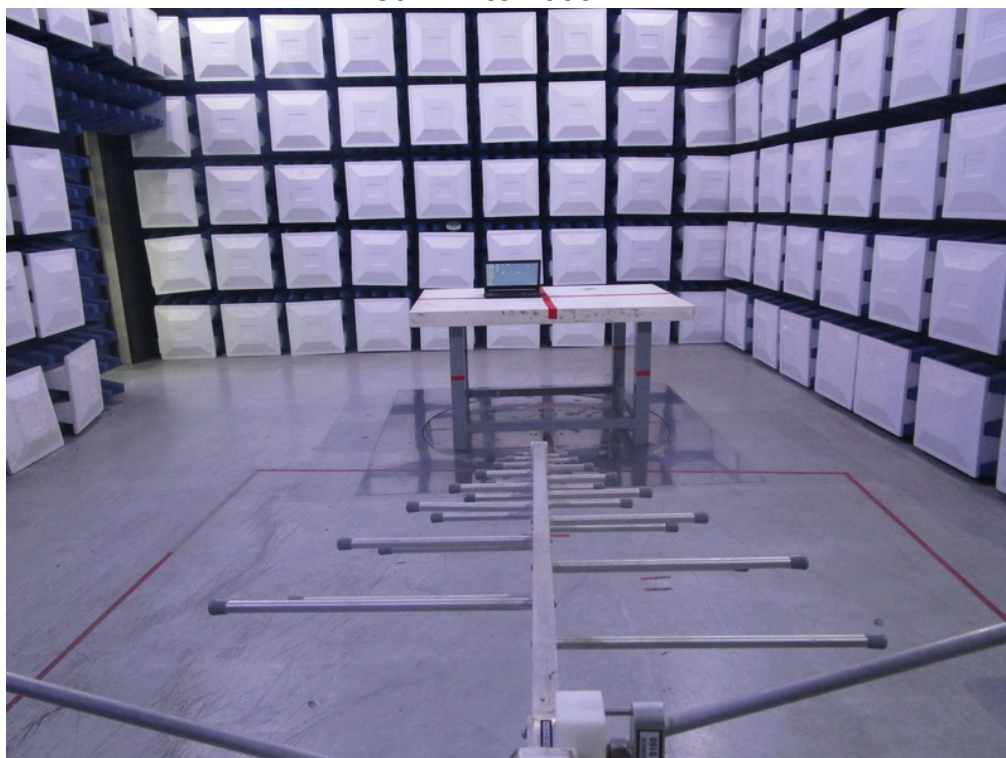
Radiated Measurement Photos

9KHz to 30MHz



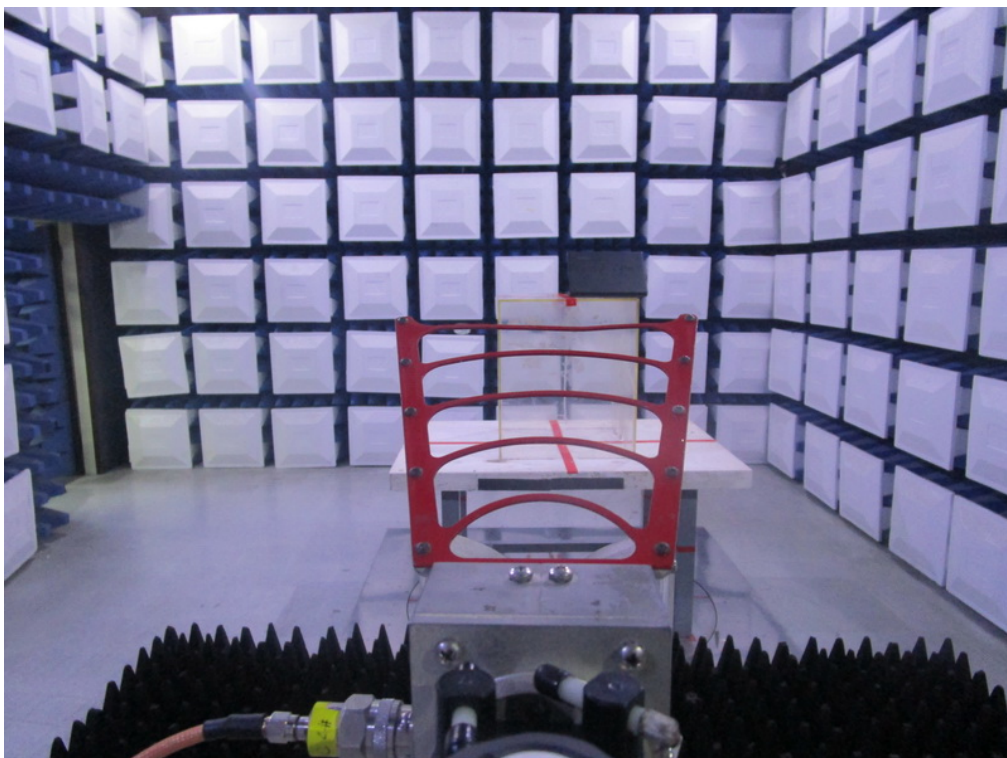
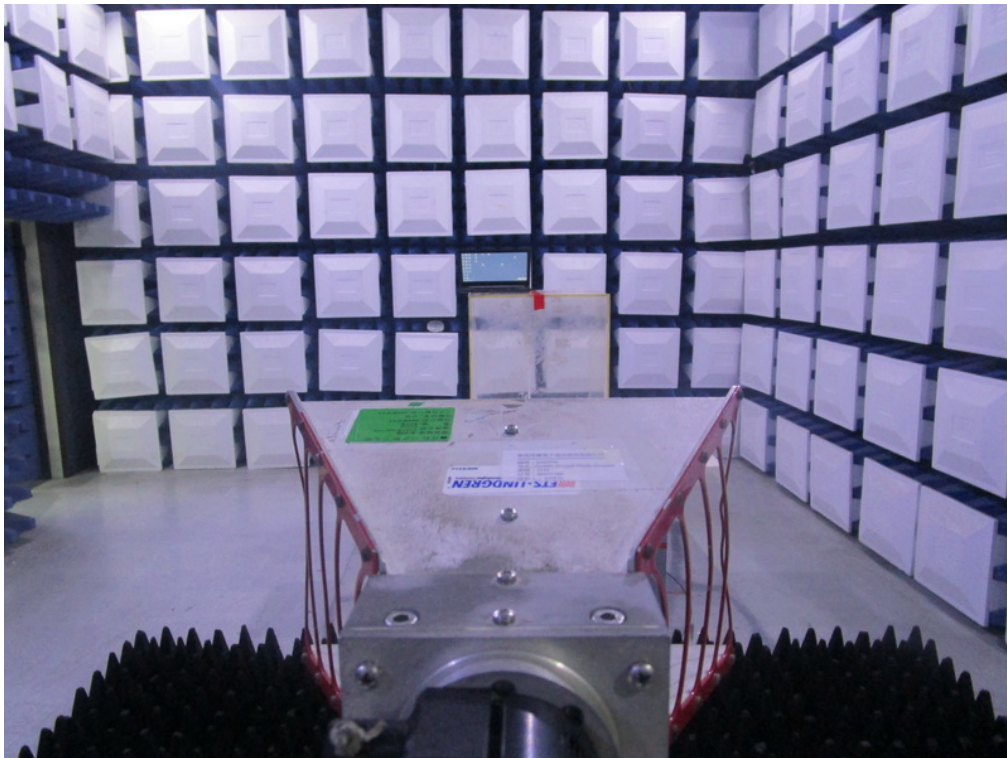
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

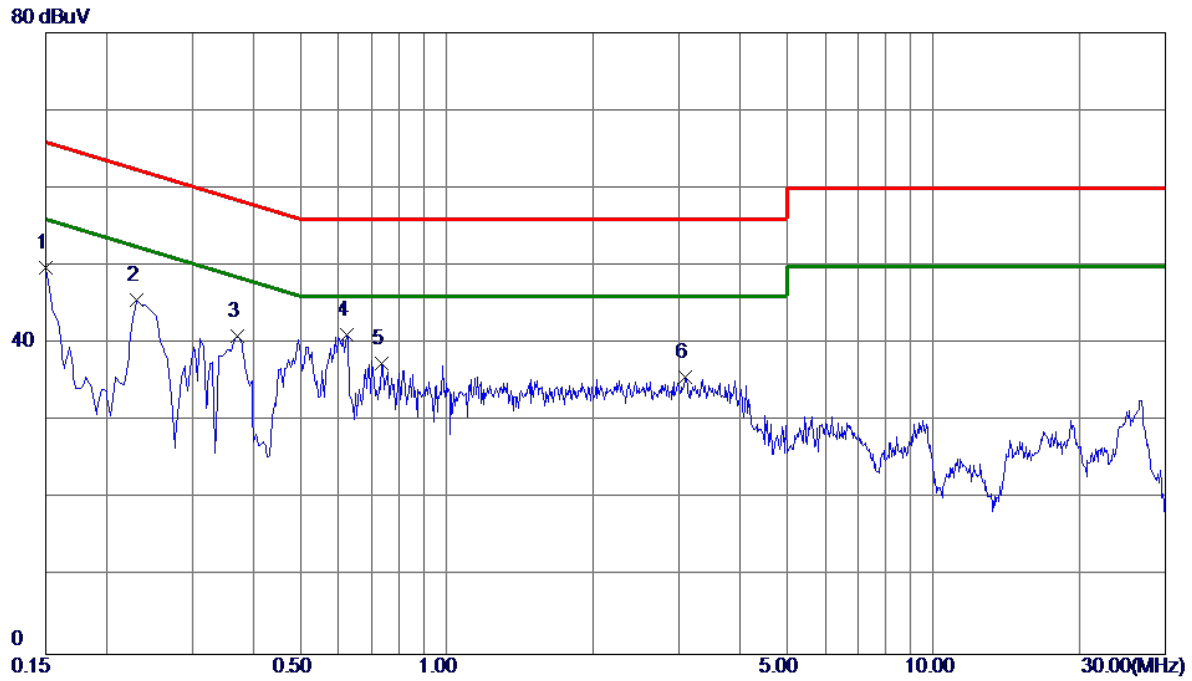
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

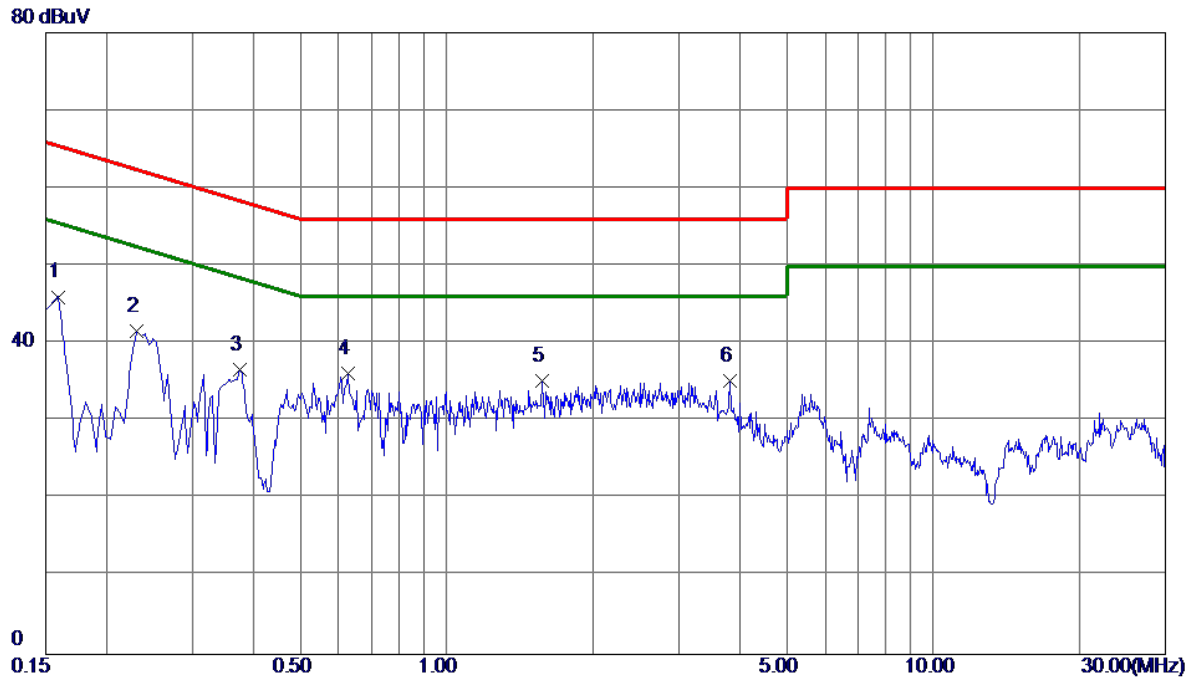
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	39.95	9.82	49.77	66.00	-16.23	Peak	
2	0.2310	35.74	9.82	45.56	62.41	-16.85	Peak	
3	0.3704	31.11	9.81	40.92	58.49	-17.57	Peak	
4 *	0.6225	31.34	9.84	41.18	56.00	-14.82	Peak	
5	0.7350	27.57	9.88	37.45	56.00	-18.55	Peak	
6	3.0975	25.60	10.06	35.66	56.00	-20.34	Peak	

Test Mode : Normal Link

Neutral

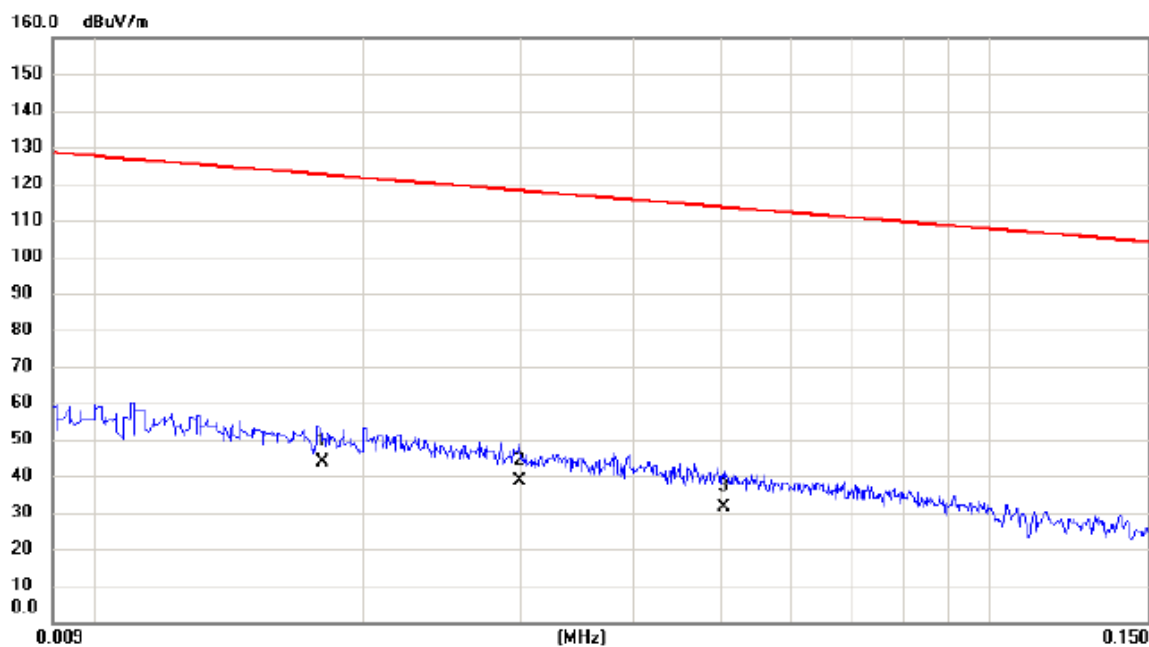


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1590	36.09	9.91	46.00	65.52	-19.52	Peak	
2	0.2310	31.66	9.92	41.58	62.41	-20.83	Peak	
3	0.3750	26.73	9.95	36.68	58.39	-21.71	Peak	
4	0.6270	26.11	10.00	36.11	56.00	-19.89	Peak	
5	1.5675	25.06	10.16	35.22	56.00	-20.78	Peak	
6	3.8220	24.87	10.30	35.17	56.00	-20.83	Peak	

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

Test Mode: TX B MODE CHANNEL 01

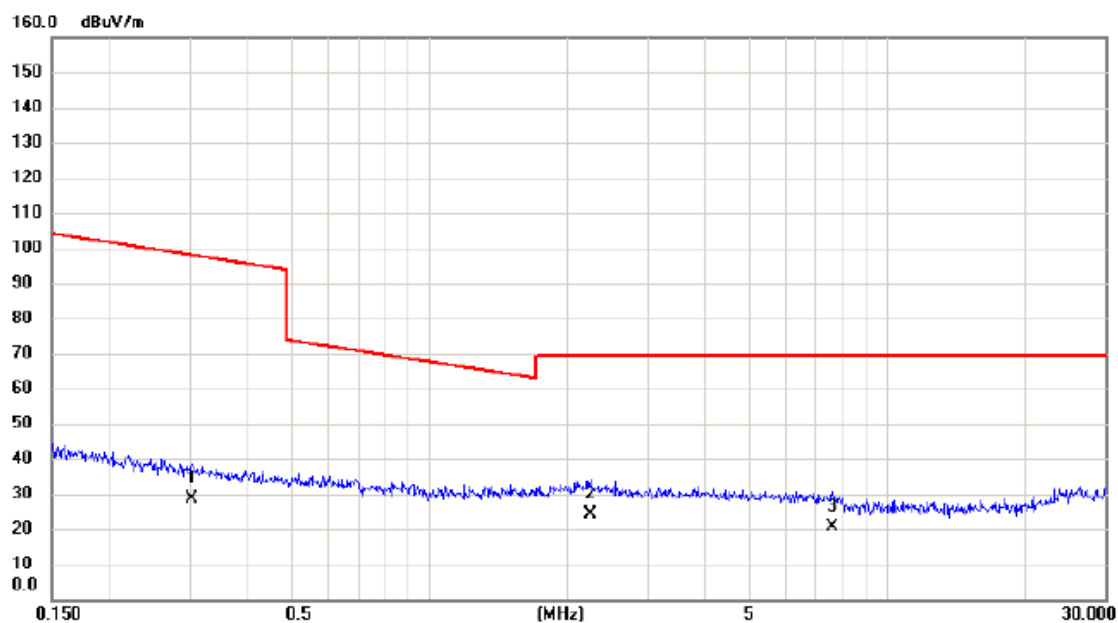
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0180	24.08	19.88	43.96	122.50	-78.54	AVG	
2		0.0298	19.42	19.33	38.75	118.12	-79.37	AVG	
3		0.0505	12.86	18.71	31.57	113.54	-81.97	AVG	

Test Mode: TX B MODE CHANNEL 01

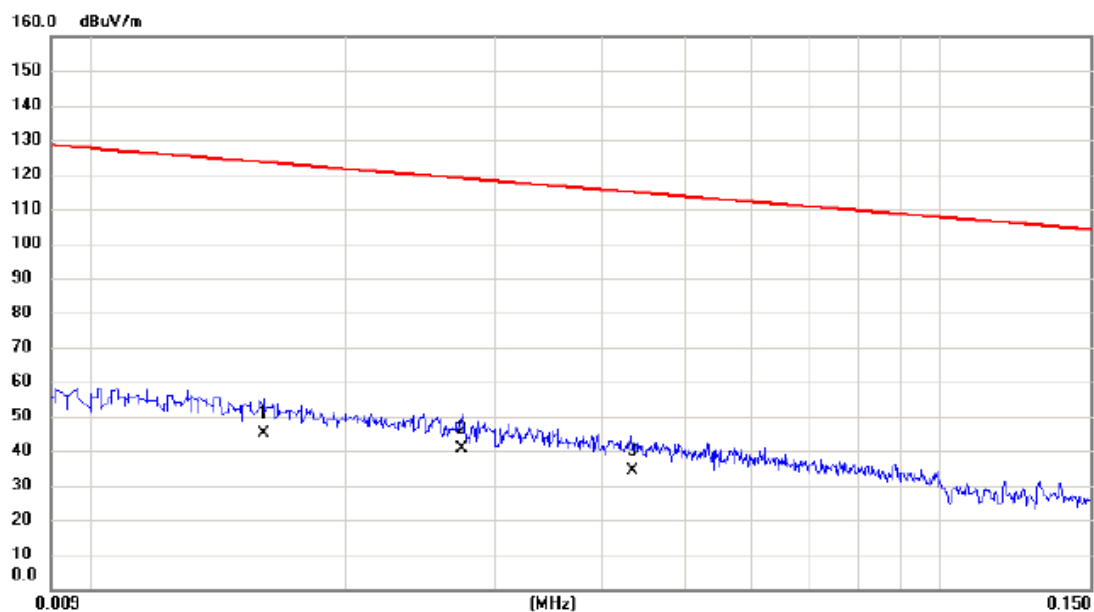
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3035	12.14	16.62	28.76	97.96	-69.20	AVG	
2	*	2.2486	8.81	15.44	24.25	69.54	-45.29	QP	
3		7.6060	6.70	14.05	20.75	69.54	-48.79	QP	

Test Mode: TX B MODE CHANNEL 01

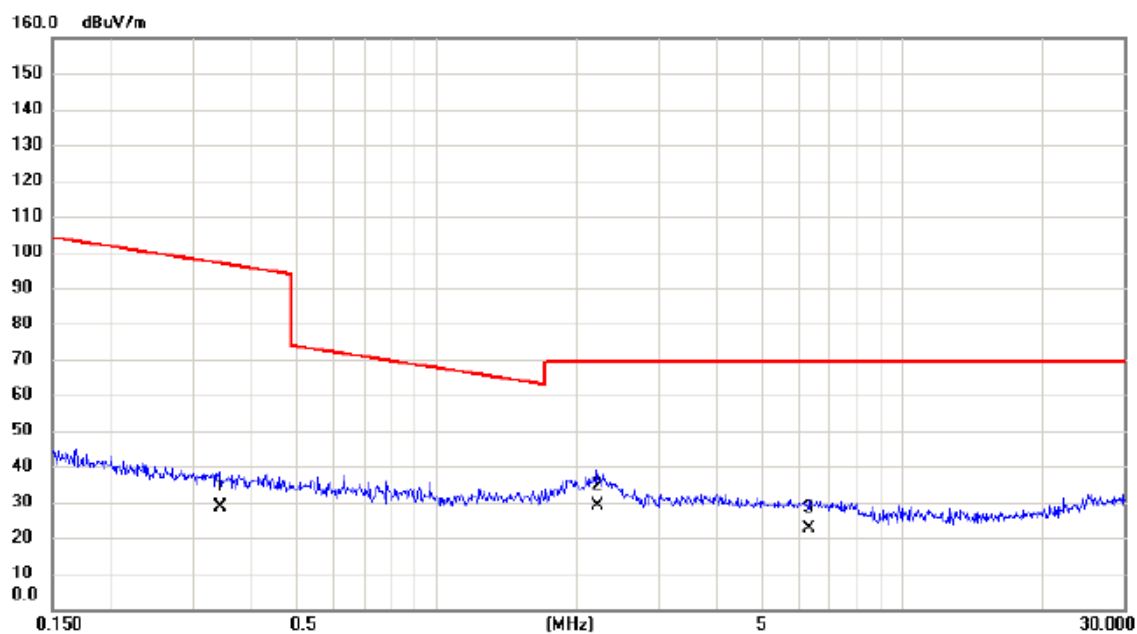
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0160	24.71	20.14	44.85	123.52	-78.67	AVG	
2	*	0.0274	21.01	19.40	40.41	118.85	-78.44	AVG	
3		0.0434	15.28	18.92	34.20	114.86	-80.66	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 90°



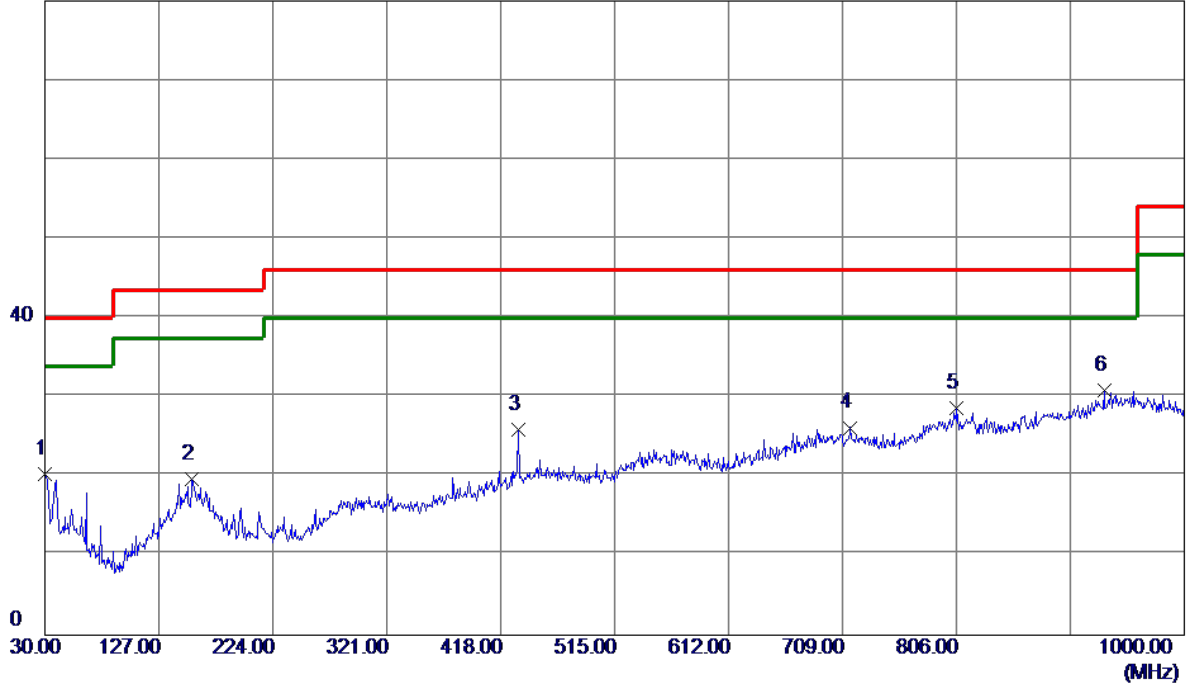
No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3446	12.02	16.58	28.60	96.86	-68.26	AVG	
2	*	2.2132	13.39	15.45	28.84	69.54	-40.70	QP	
3		6.3186	8.29	14.21	22.50	69.54	-47.04	QP	

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

Test Mode: TX B MODE CHANNEL 01

Vertical

80 dBuV/m

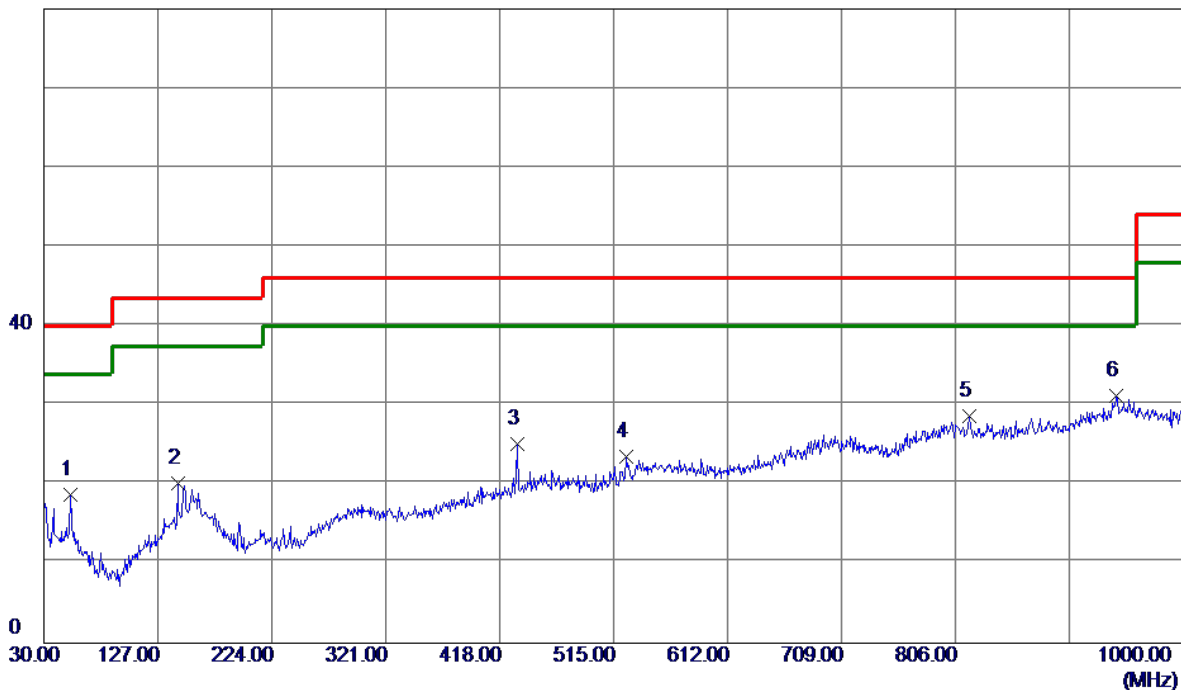


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30.0000	35.68	-15.32	20.36	40.00	-19.64	Peak	
2	155.1300	31.36	-11.73	19.63	43.50	-23.87	Peak	
3	433.5200	34.75	-8.76	25.99	46.00	-20.01	Peak	
4	715.7900	29.96	-3.80	26.16	46.00	-19.84	Peak	
5	806.0000	30.41	-1.71	28.70	46.00	-17.30	Peak	
6 *	931.6150	30.68	0.17	30.85	46.00	-15.15	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

80 dBuV/m

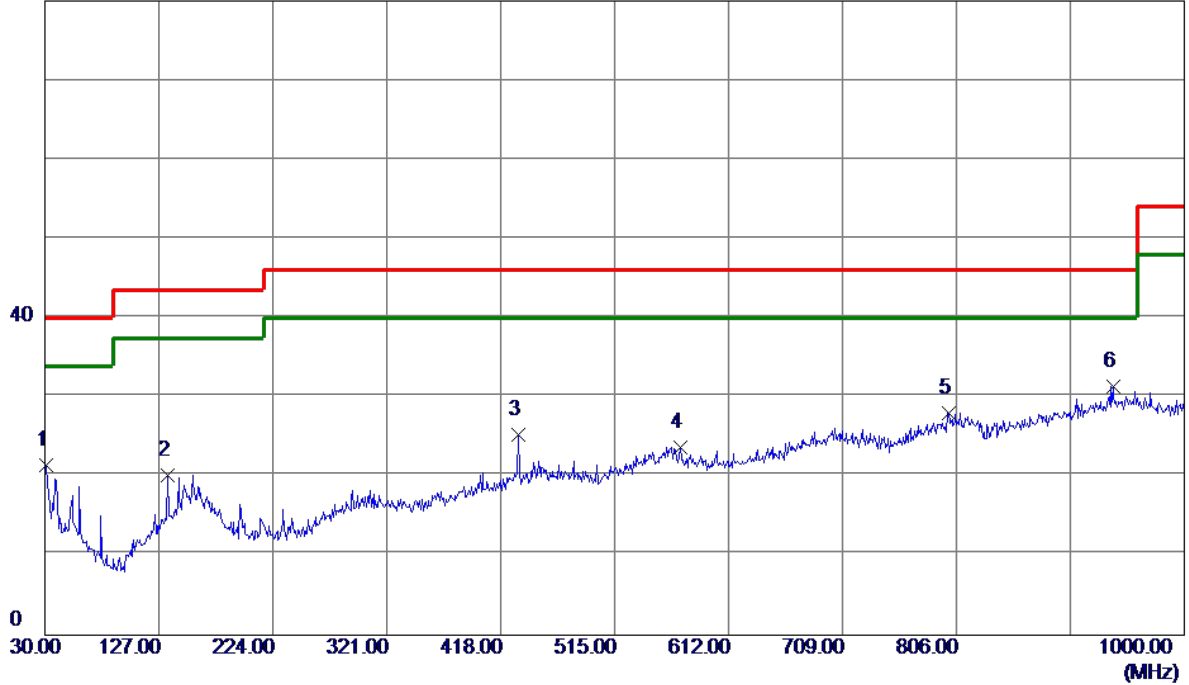


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	52.7950	34.02	-15.37	18.65	40.00	-21.35	Peak	
2	143.9750	32.73	-12.53	20.20	43.50	-23.30	Peak	
3	433.0350	33.91	-8.78	25.13	46.00	-20.87	Peak	
4	526.1550	31.07	-7.62	23.45	46.00	-22.55	Peak	
5	817.6400	30.58	-1.88	28.70	46.00	-17.30	Peak	
6 *	943.2550	30.60	0.65	31.25	46.00	-14.75	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

80 dBuV/m

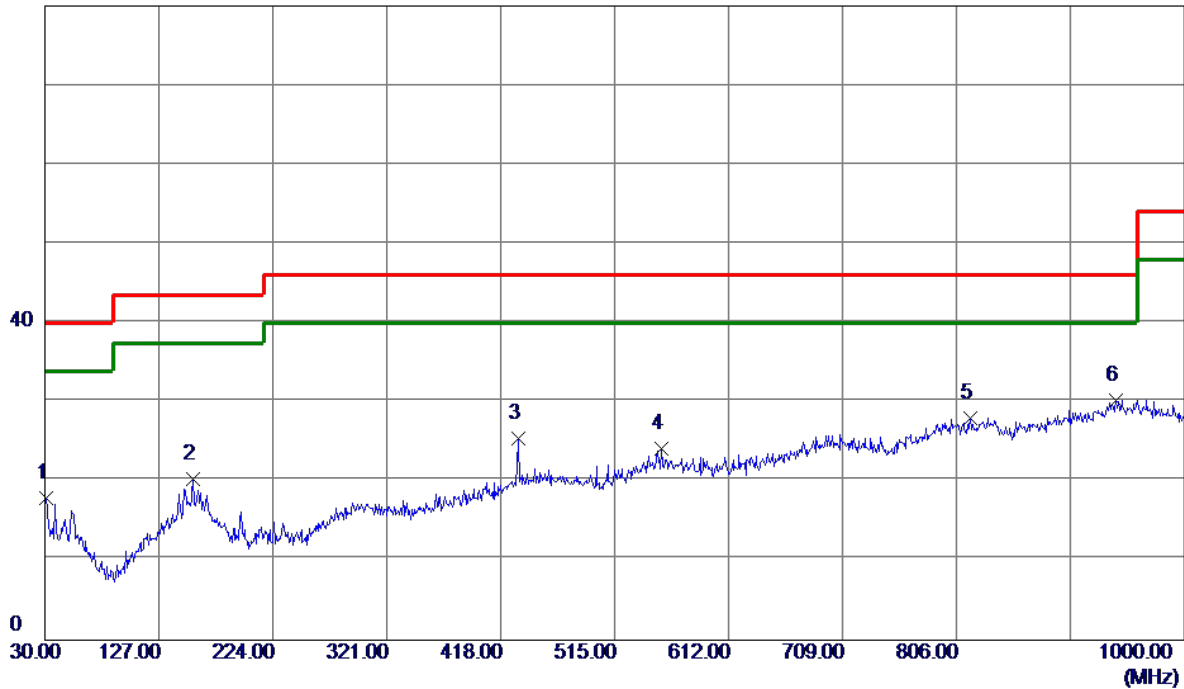


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	31.4550	36.89	-15.38	21.51	40.00	-18.49	Peak	
2	134.7600	33.59	-13.43	20.16	43.50	-23.34	Peak	
3	433.5200	34.09	-8.76	25.33	46.00	-20.67	Peak	
4	570.7750	30.25	-6.50	23.75	46.00	-22.25	Peak	
5	799.2100	29.71	-1.67	28.04	46.00	-17.96	Peak	
6 *	939.3750	30.91	0.49	31.40	46.00	-14.60	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

80 dBuV/m

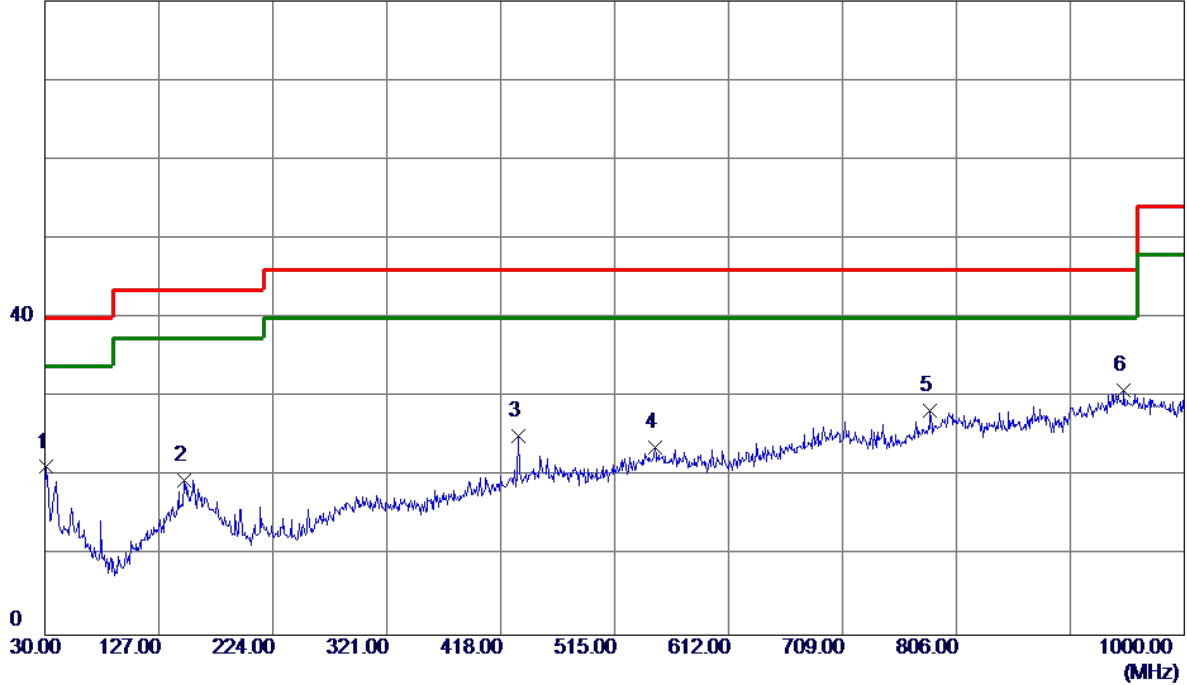


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	31.4550	33.37	-15.38	17.99	40.00	-22.01	Peak	
2	156.5850	31.85	-11.60	20.25	43.50	-23.25	Peak	
3	433.0350	34.18	-8.78	25.40	46.00	-20.60	Peak	
4	555.2550	30.37	-6.24	24.13	46.00	-21.87	Peak	
5	817.6400	29.95	-1.88	28.07	46.00	-17.93	Peak	
6 *	941.8000	29.70	0.59	30.29	46.00	-15.71	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

80 dBuV/m

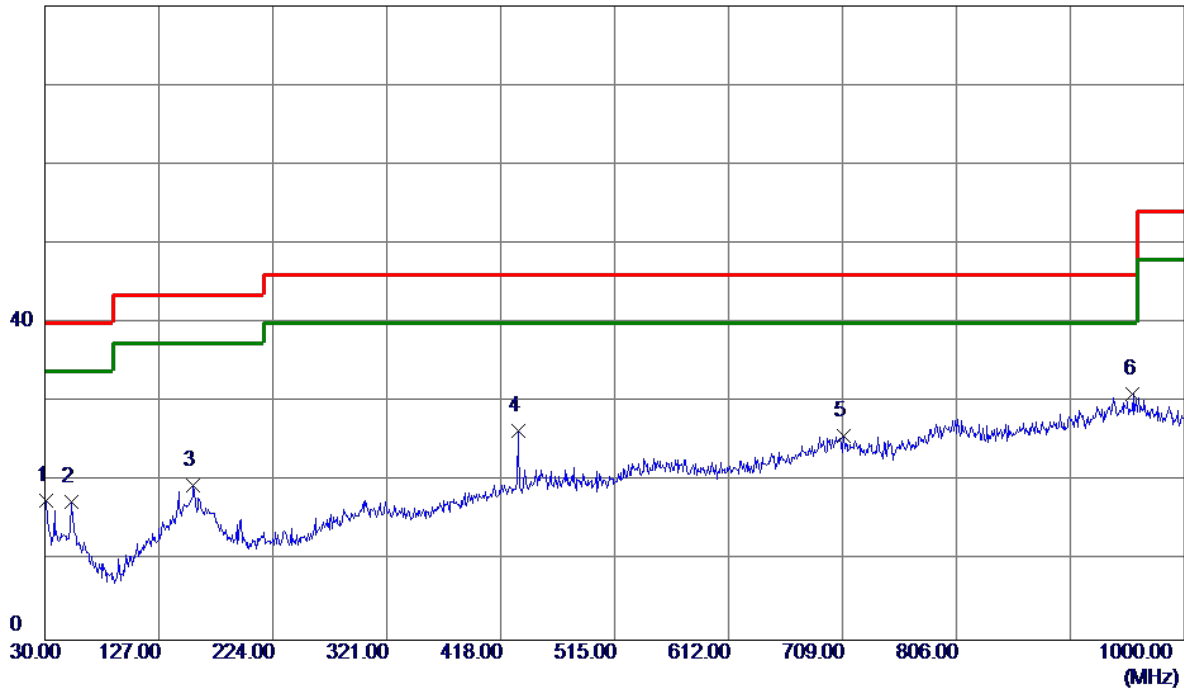


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	31.4550	36.58	-15.38	21.20	40.00	-18.80	Peak	
2	148.3400	31.86	-12.28	19.58	43.50	-23.92	Peak	
3	433.0350	33.96	-8.78	25.18	46.00	-20.82	Peak	
4	549.4350	29.83	-6.19	23.64	46.00	-22.36	Peak	
5	783.6900	30.86	-2.61	28.25	46.00	-17.75	Peak	
6 *	948.5900	29.94	0.87	30.81	46.00	-15.19	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

80 dBuV/m



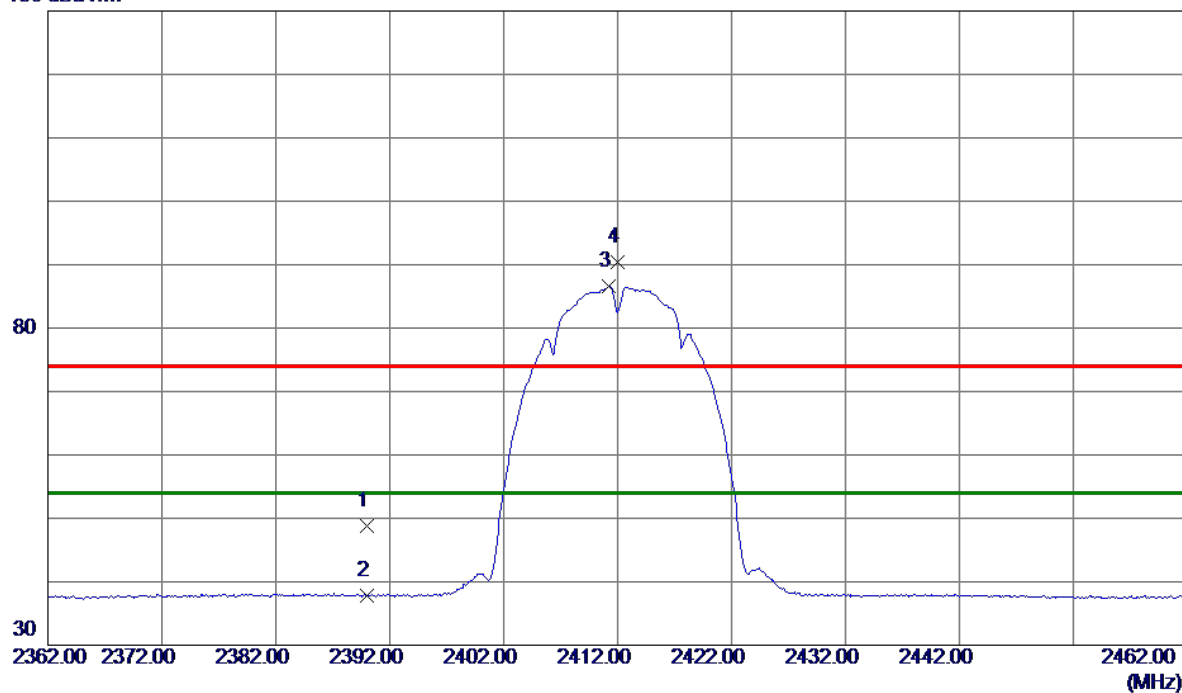
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30.9700	32.89	-15.36	17.53	40.00	-22.47	Peak	
2	52.7950	32.78	-15.37	17.41	40.00	-22.59	Peak	
3	156.1000	31.13	-11.64	19.49	43.50	-24.01	Peak	
4	433.0350	35.13	-8.78	26.35	46.00	-19.65	Peak	
5	709.9699	29.36	-3.65	25.71	46.00	-20.29	Peak	
6 *	956.3500	30.32	0.78	31.10	46.00	-14.90	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

130 dBuV/m

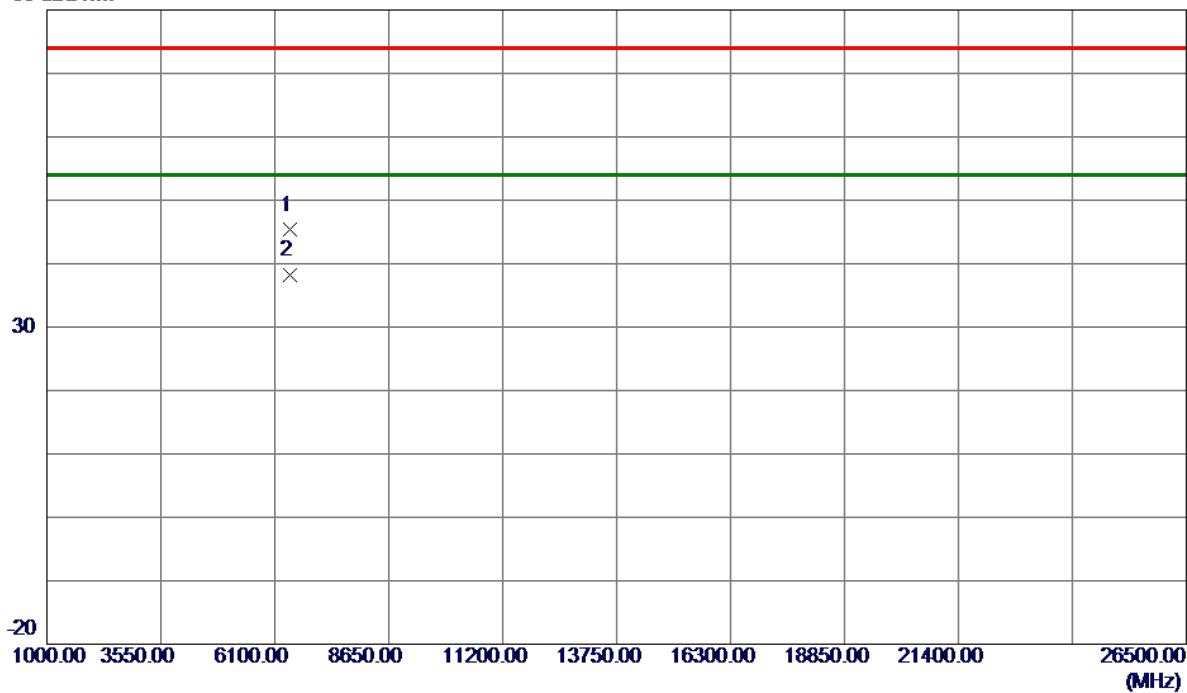


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	39.83	9.00	48.83	74.00	-25.17	Peak	
2	2390.0000	28.72	9.00	37.72	54.00	-16.28	AVG	
3 *	2411.2000	77.57	9.00	86.57	54.00	32.57	AVG	No Limit
4	2412.0000	81.32	9.00	90.32	74.00	16.32	Peak	No Limit

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

Vertical

80 dBuV/m

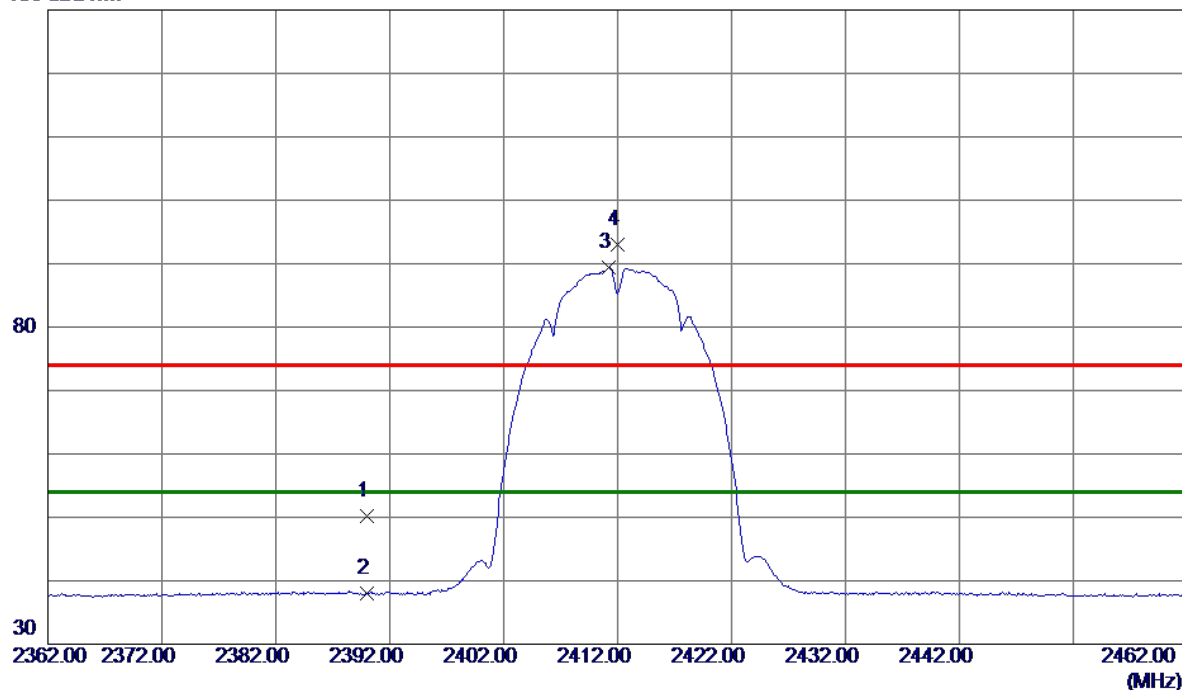


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6431.9400	35.26	10.04	45.30	74.00	-28.70	Peak	
2 *	6432.0200	28.08	10.04	38.12	54.00	-15.88	AVG	

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

Horizontal

130 dBuV/m

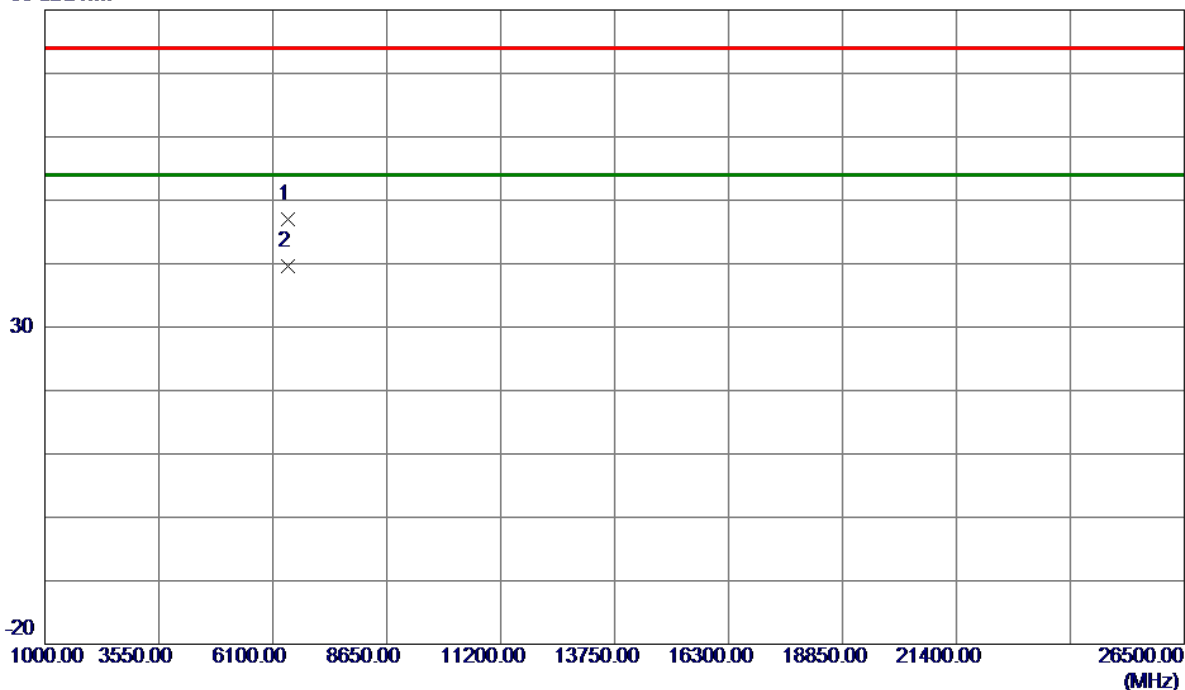


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.18	9.00	50.18	74.00	-23.82	Peak	
2	2390.0000	29.08	9.00	38.08	54.00	-15.92	AVG	
3 *	2411.2000	80.35	9.00	89.35	54.00	35.35	AVG	No Limit
4	2412.0000	84.09	9.00	93.09	74.00	19.09	Peak	No Limit

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

Horizontal

80 dBuV/m

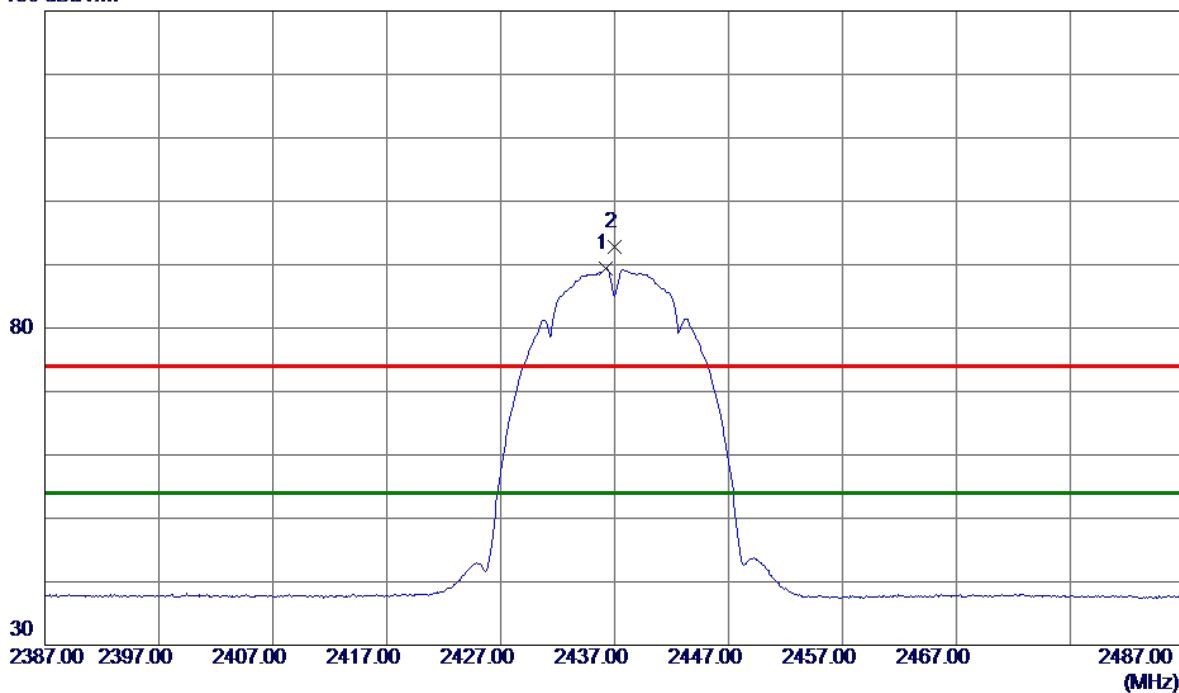


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6431.8600	36.96	10.04	47.00	74.00	-27.00	Peak	
2 *	6432.0000	29.65	10.04	39.69	54.00	-14.31	AVG	

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

Vertical

130 dBuV/m

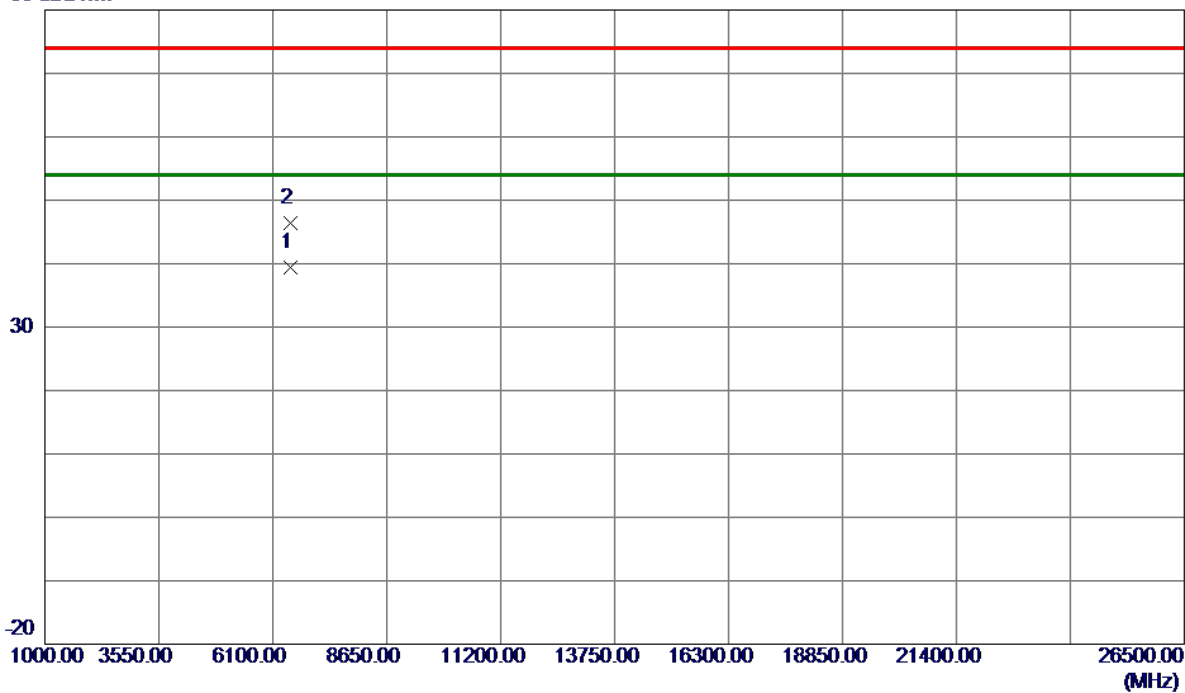


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	80.32	8.99	89.31	54.00	35.31	AVG	No Limit
2	2437.0000	83.88	8.99	92.87	74.00	18.87	Peak	No Limit

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

Vertical

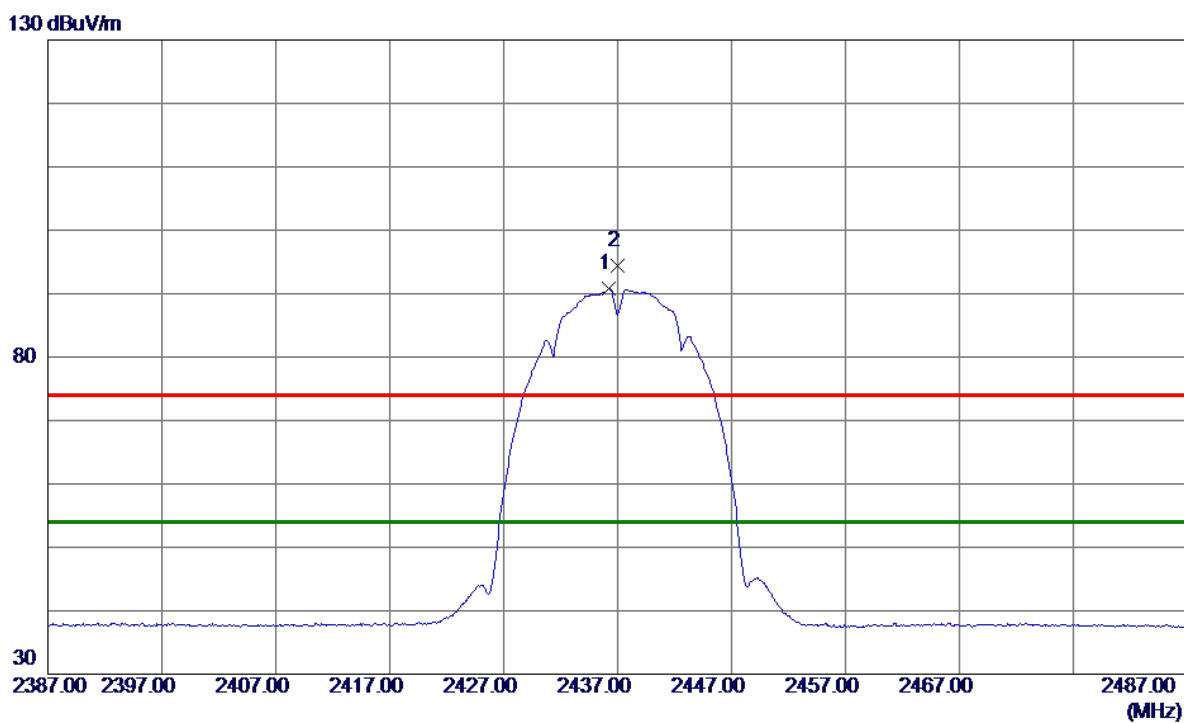
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6498.6800	29.29	10.14	39.43	54.00	-14.57	AVG	
2	6498.7799	36.23	10.14	46.37	74.00	-27.63	Peak	

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

Horizontal

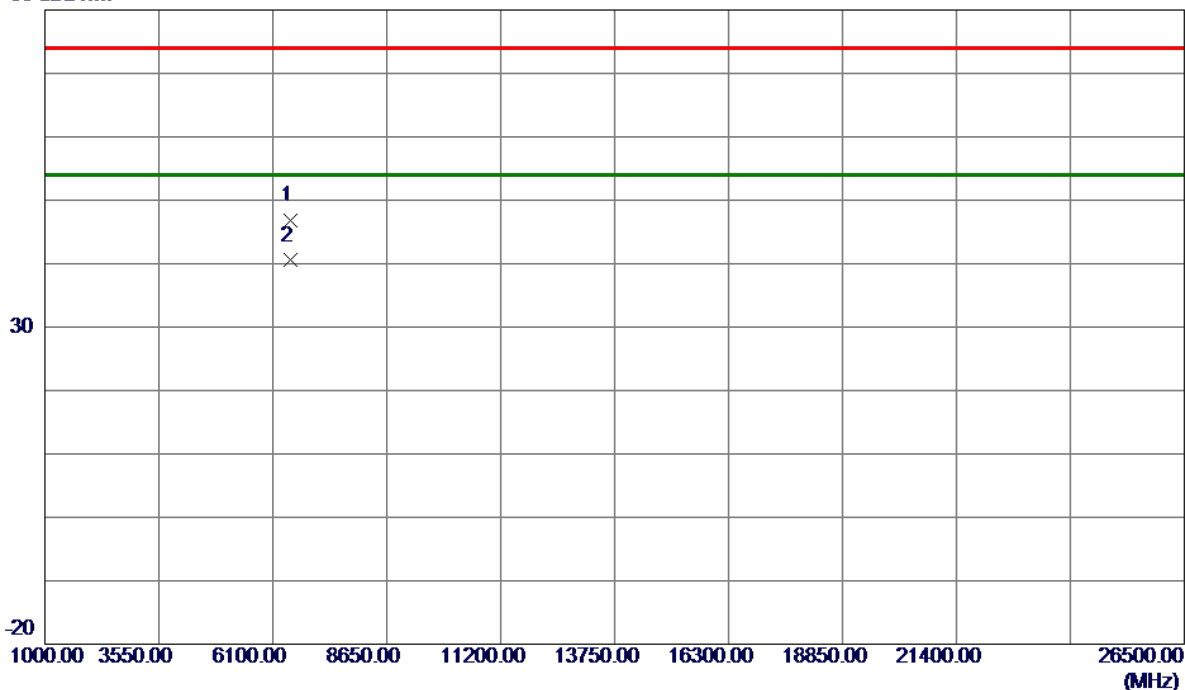


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	81.75	8.99	90.74	54.00	36.74	AVG	No Limit
2	2437.0000	85.48	8.99	94.47	74.00	20.47	Peak	No Limit

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

Horizontal

80 dBuV/m

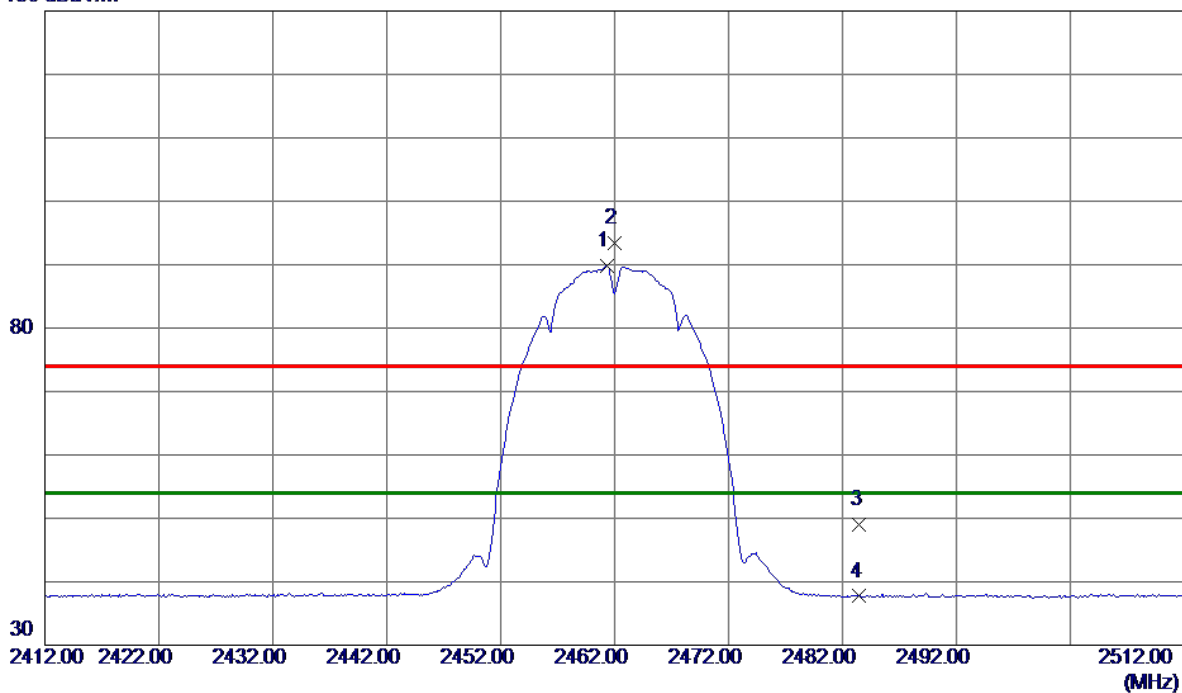


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6498.5700	36.69	10.14	46.83	74.00	-27.17	Peak	
2 *	6498.6500	30.36	10.14	40.50	54.00	-13.50	AVG	

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

Vertical

130 dBuV/m

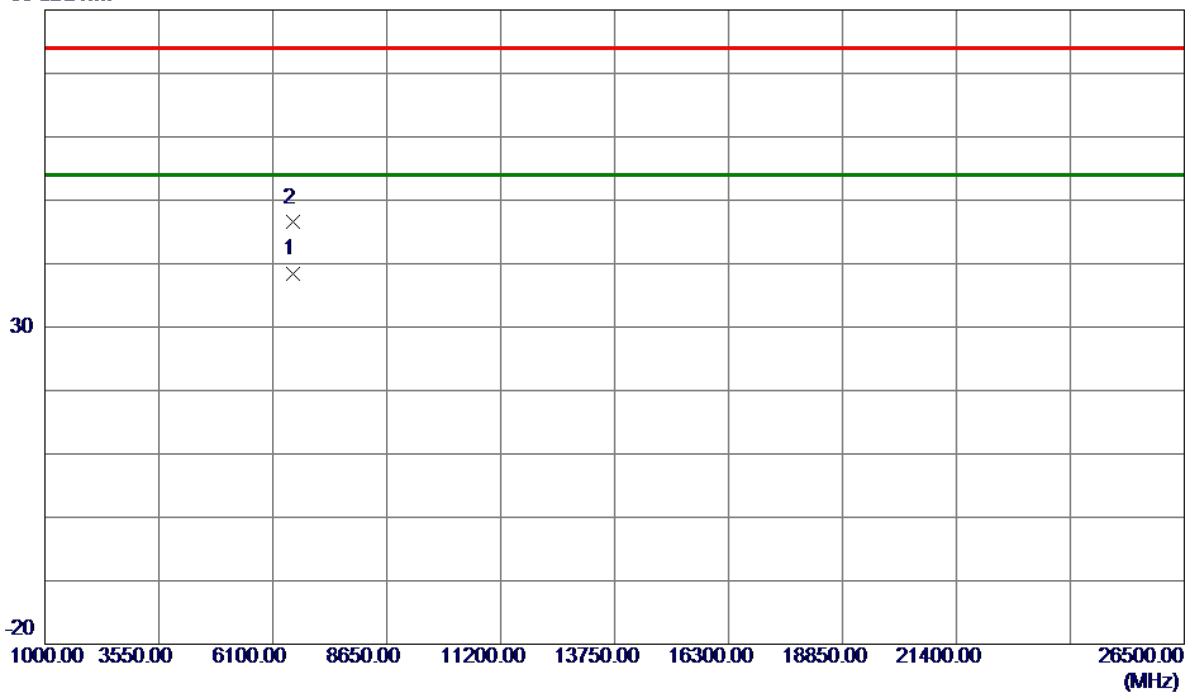


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.3000	80.76	8.98	89.74	54.00	35.74	AVG	No Limit
2	2462.0000	84.41	8.98	93.39	74.00	19.39	Peak	No Limit
3	2483.5000	40.10	8.97	49.07	74.00	-24.93	Peak	
4	2483.5000	28.73	8.97	37.70	54.00	-16.30	AVG	

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

Vertical

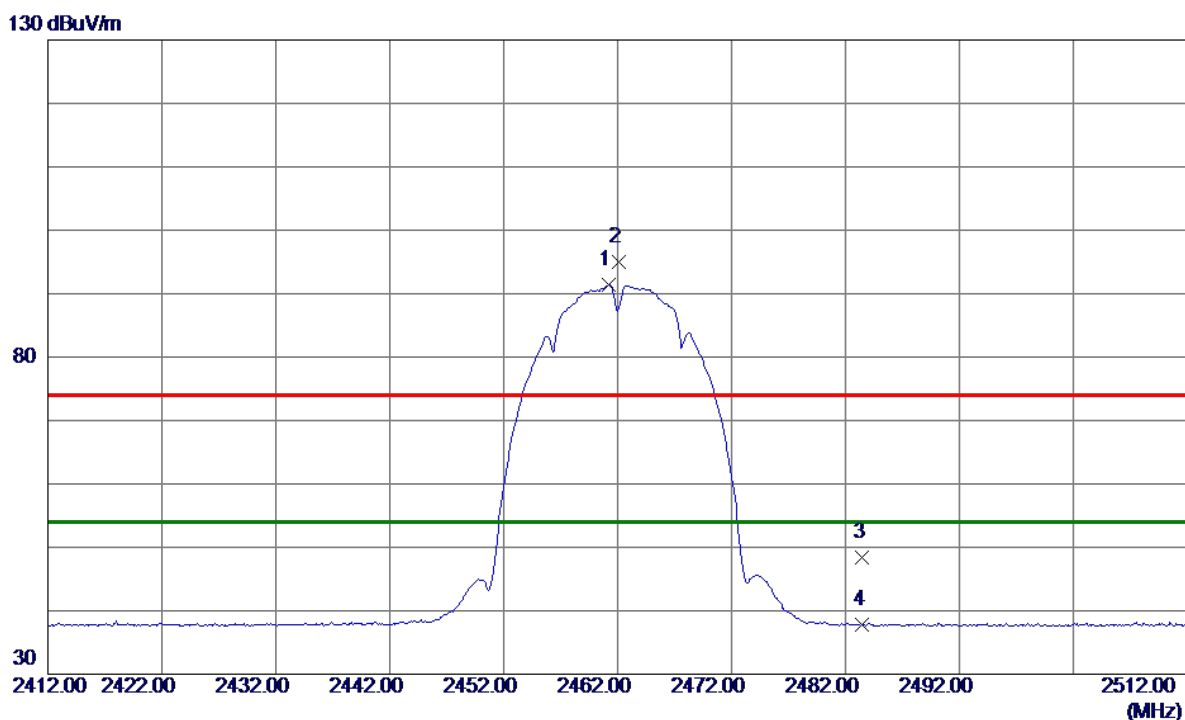
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6565.4100	28.19	10.29	38.48	54.00	-15.52	AVG	
2	6565.6700	36.21	10.29	46.50	74.00	-27.50	Peak	

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

Horizontal

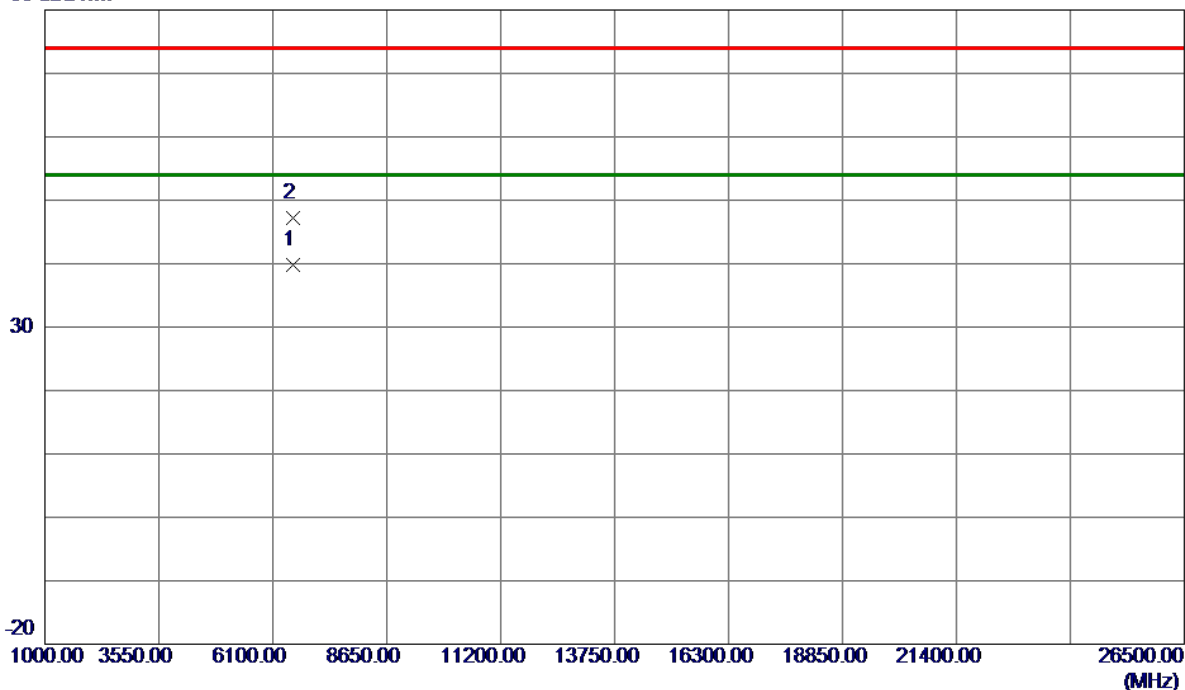


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2000	82.41	8.98	91.39	54.00	37.39	AVG	No Limit
2	2462.1000	86.05	8.98	95.03	74.00	21.03	Peak	No Limit
3	2483.5000	39.36	8.97	48.33	74.00	-25.67	Peak	
4	2483.5000	28.91	8.97	37.88	54.00	-16.12	AVG	

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

Horizontal

80 dBuV/m

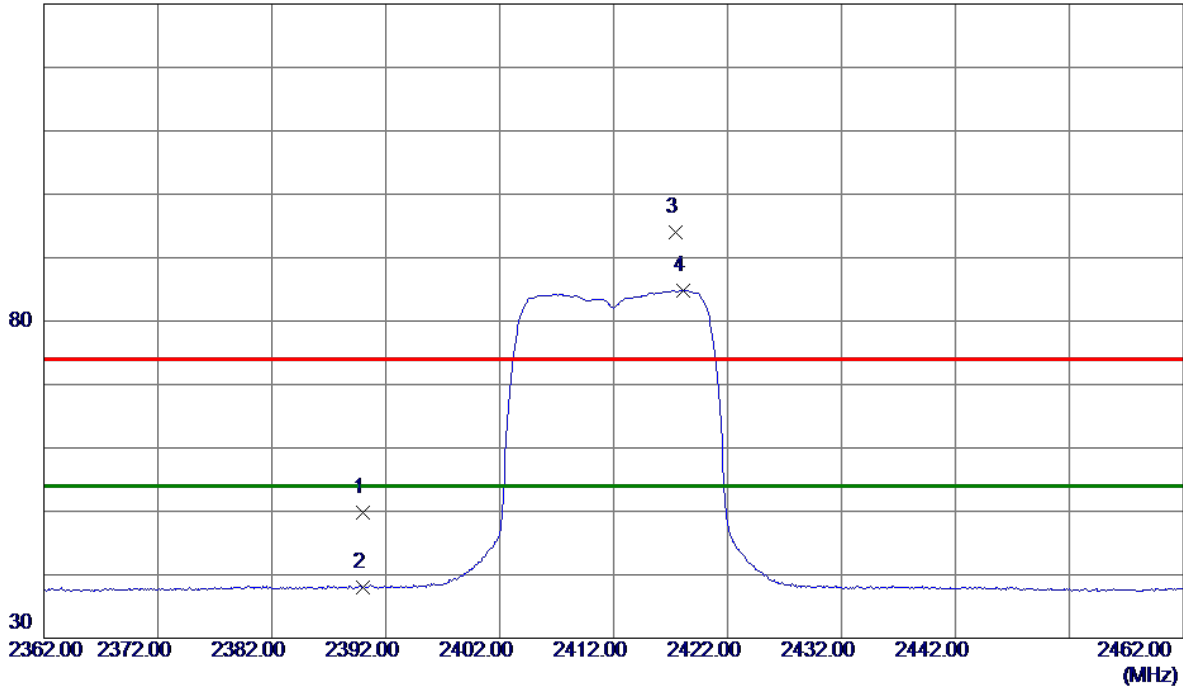


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6565.3700	29.47	10.29	39.76	54.00	-14.24	AVG	
2	6565.5400	36.98	10.29	47.27	74.00	-26.73	Peak	

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

Vertical

130 dBuV/m

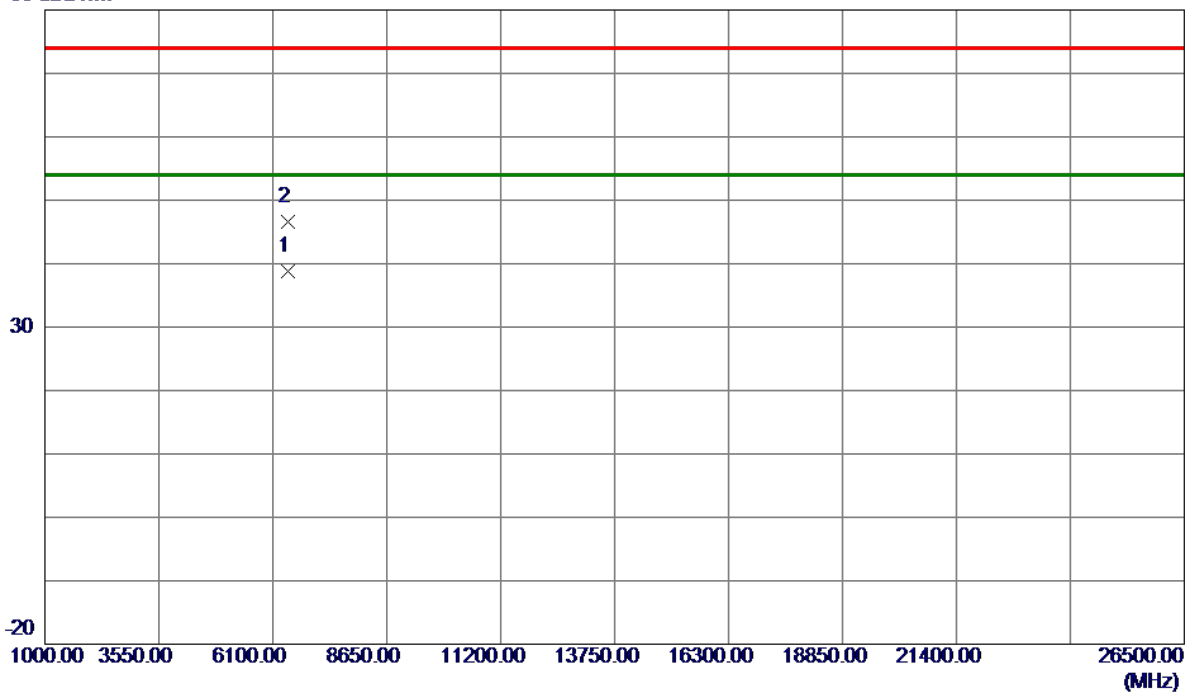


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	40.74	9.00	49.74	74.00	-24.26	Peak	
2	2390.0000	29.05	9.00	38.05	54.00	-15.95	AVG	
3	2417.4000	85.00	8.99	93.99	74.00	19.99	Peak	No Limit
4 *	2418.1000	75.84	8.99	84.83	54.00	30.83	AVG	No Limit

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

Vertical

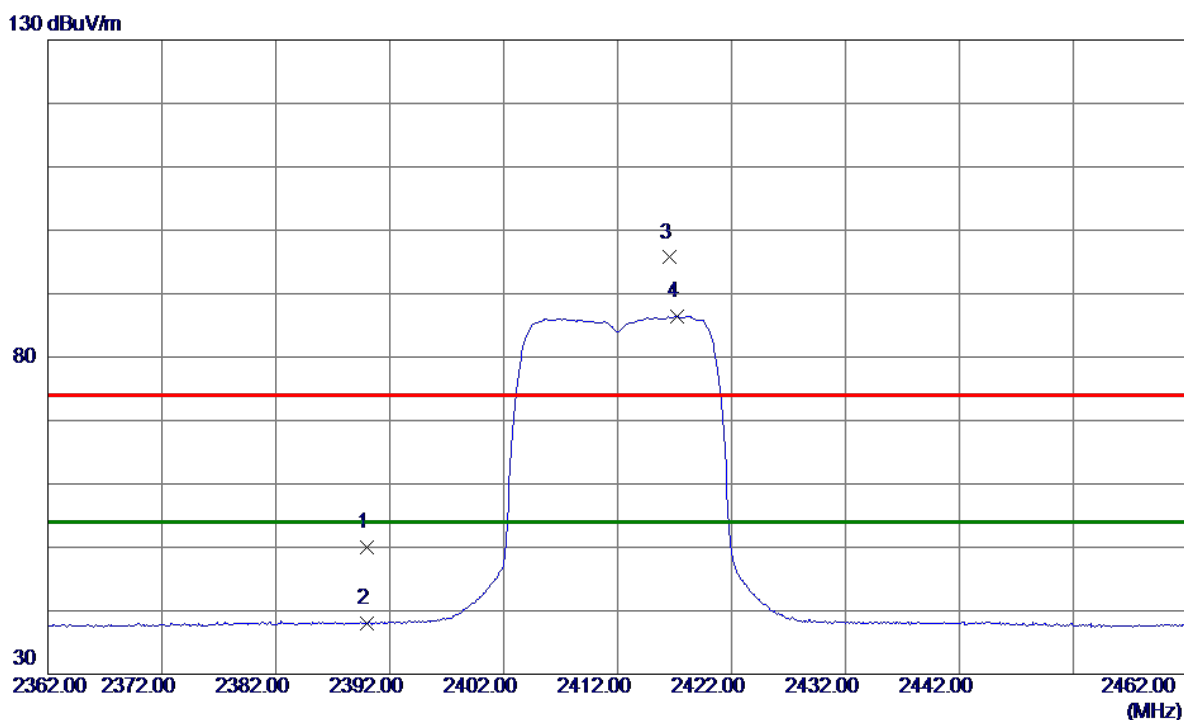
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6431.9000	28.78	10.04	38.82	54.00	-15.18	AVG	
2	6432.2400	36.62	10.05	46.67	74.00	-27.33	Peak	

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

Horizontal

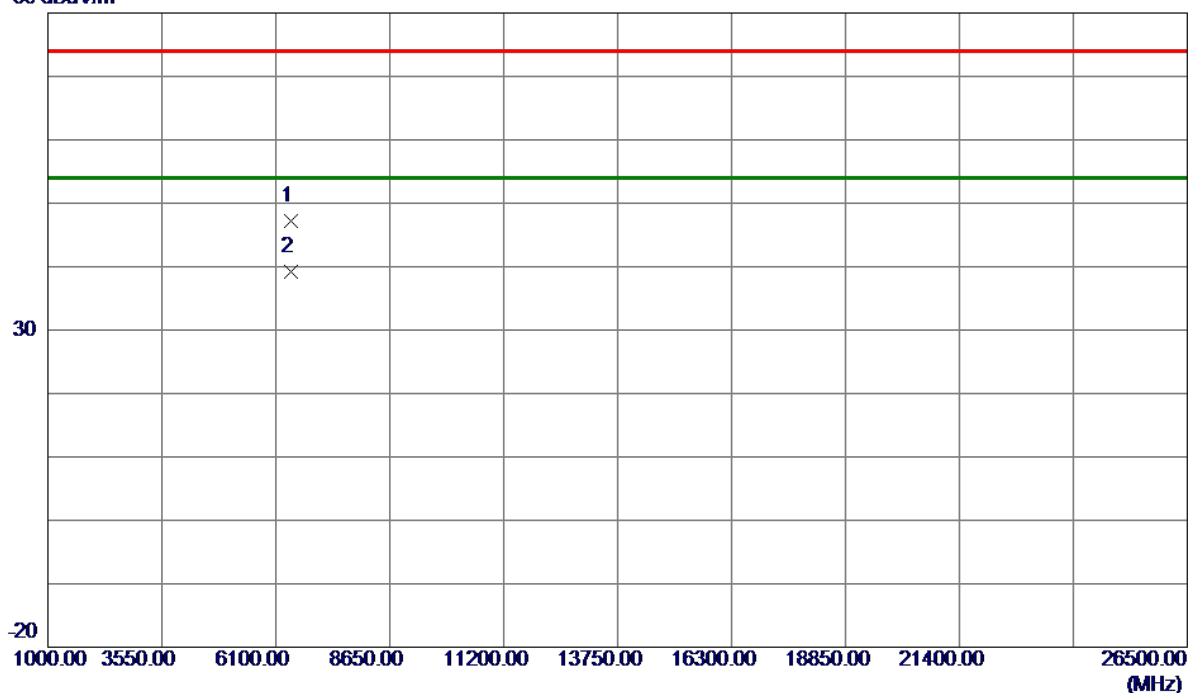


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.08	9.00	50.08	74.00	-23.92	Peak	
2	2390.0000	29.01	9.00	38.01	54.00	-15.99	AVG	
3	2416.6000	86.71	8.99	95.70	74.00	21.70	Peak	No Limit
4 *	2417.2000	77.43	8.99	86.42	54.00	32.42	AVG	No Limit

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

Horizontal

80 dBuV/m

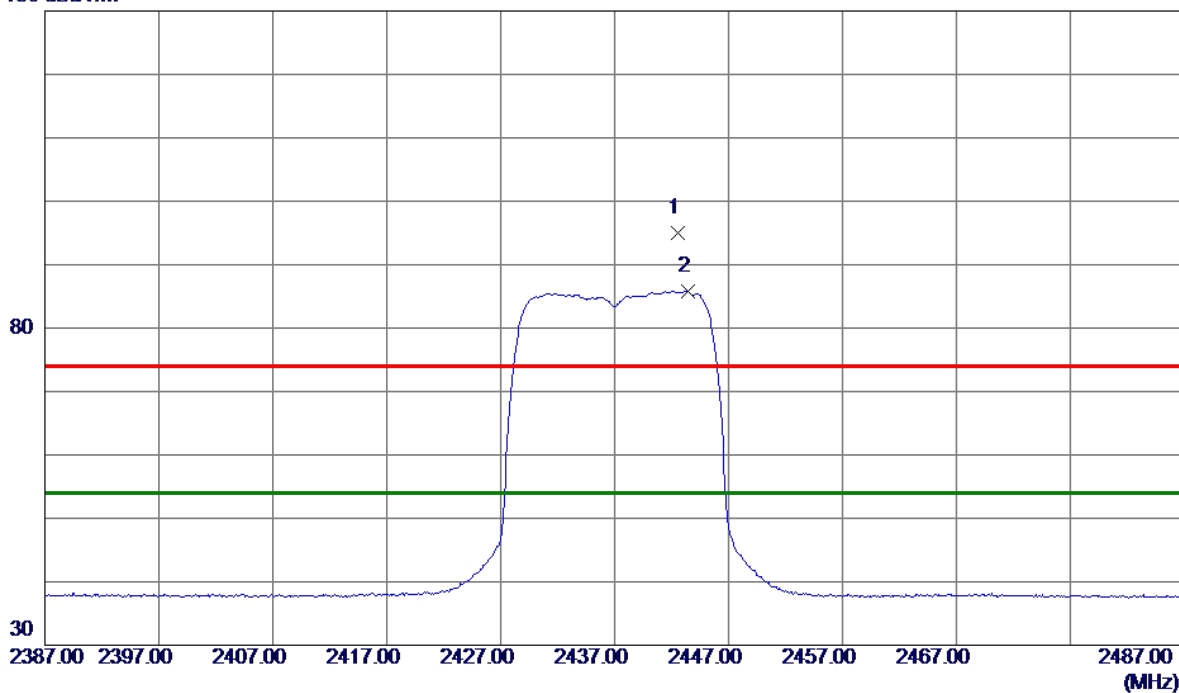


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6431.7200	37.10	10.04	47.14	74.00	-26.86	Peak	
2 *	6432.0299	29.21	10.04	39.25	54.00	-14.75	AVG	

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

Vertical

130 dBuV/m

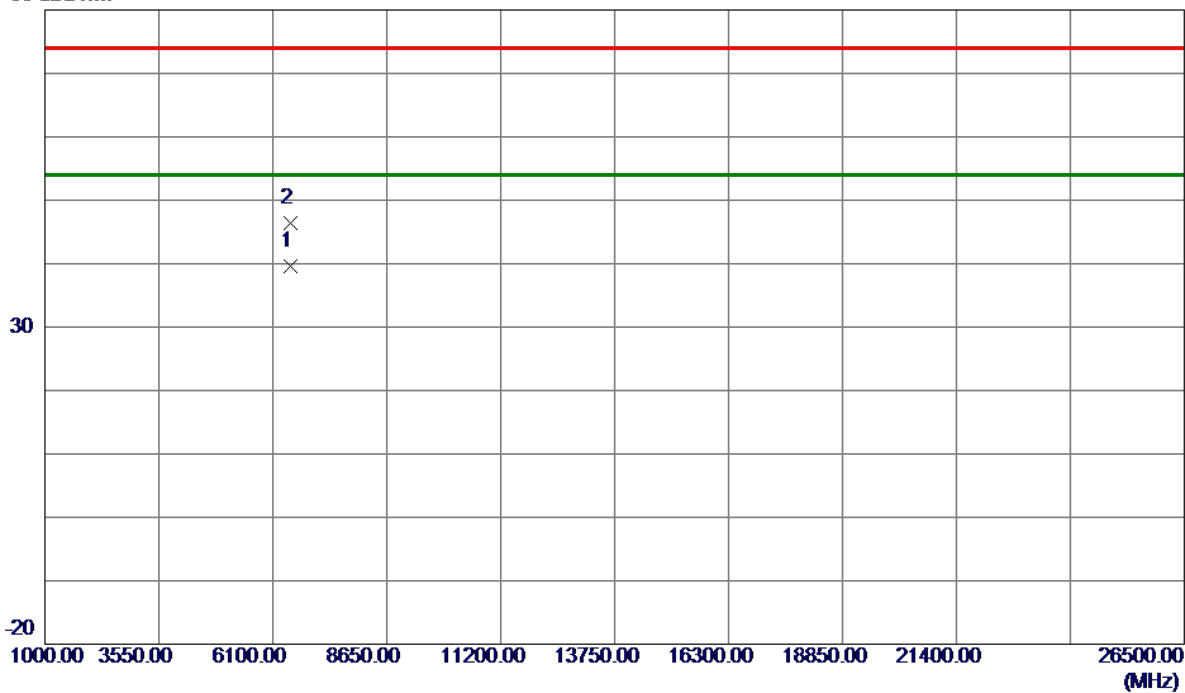


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.6000	85.98	8.98	94.96	74.00	20.96	Peak	No Limit
2 *	2443.4000	76.85	8.98	85.83	54.00	31.83	AVG	No Limit

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

Vertical

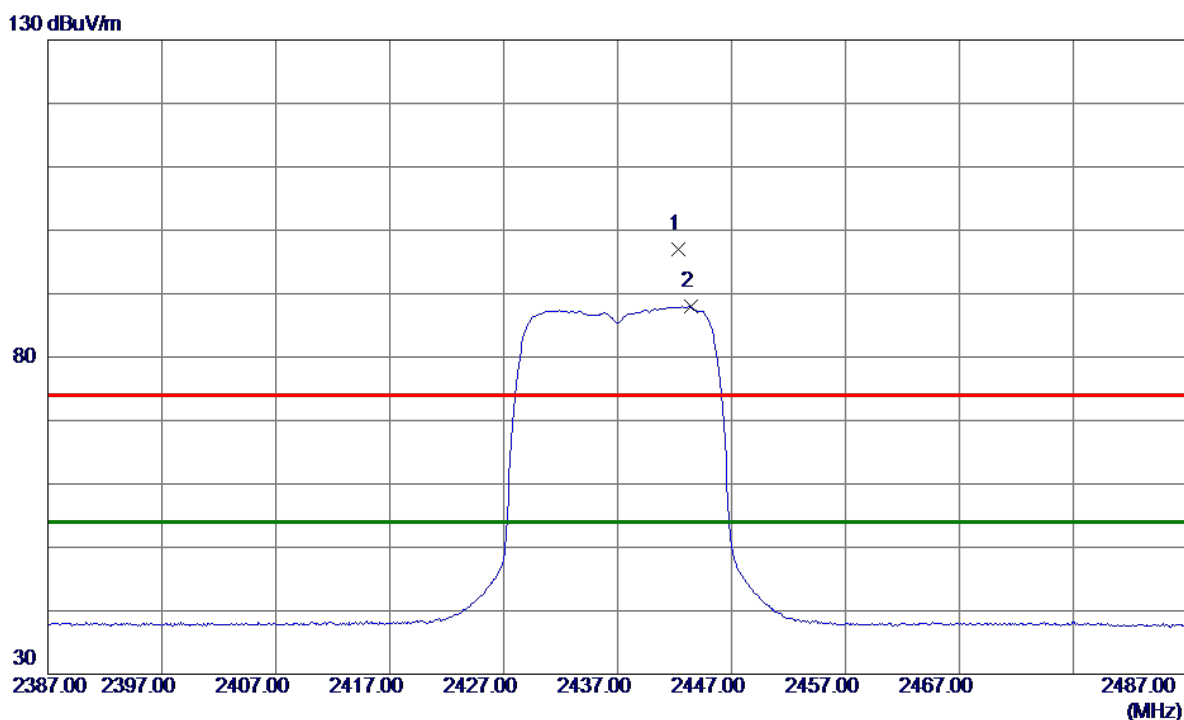
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6498.6800	29.39	10.14	39.53	54.00	-14.47	AVG	
2	6498.7200	36.33	10.14	46.47	74.00	-27.53	Peak	

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

Horizontal

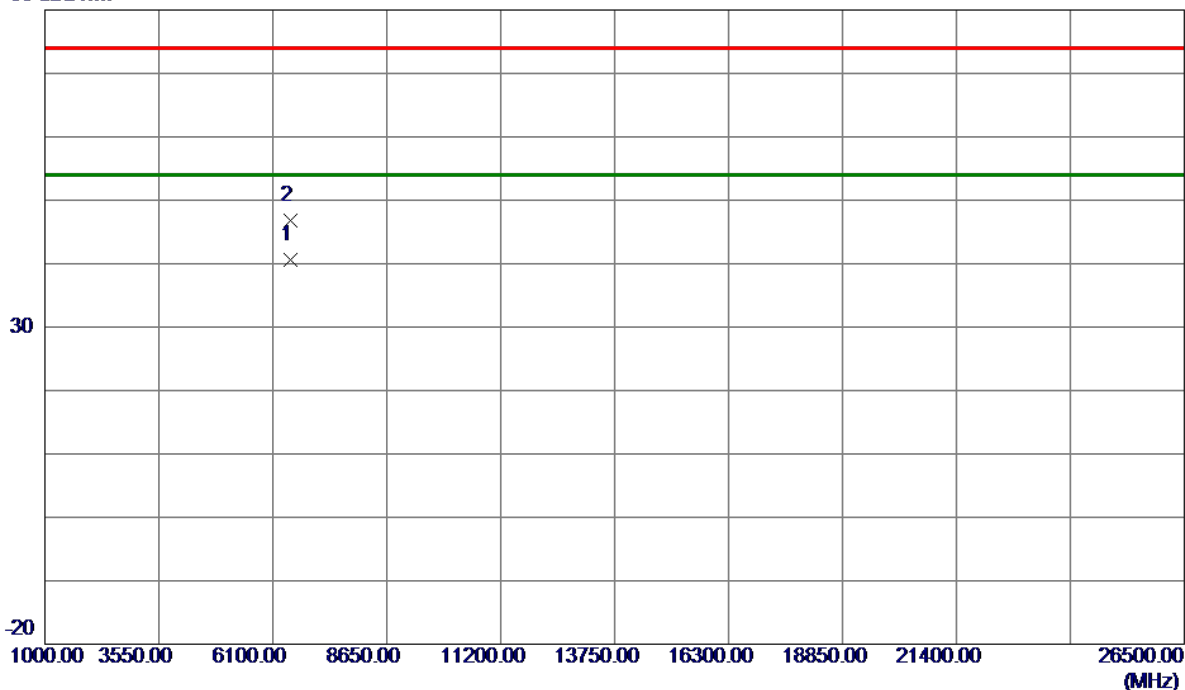


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.3000	88.07	8.98	97.05	74.00	23.05	Peak	No Limit
2 *	2443.4000	78.94	8.98	87.92	54.00	33.92	AVG	No Limit

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

Horizontal

80 dBuV/m

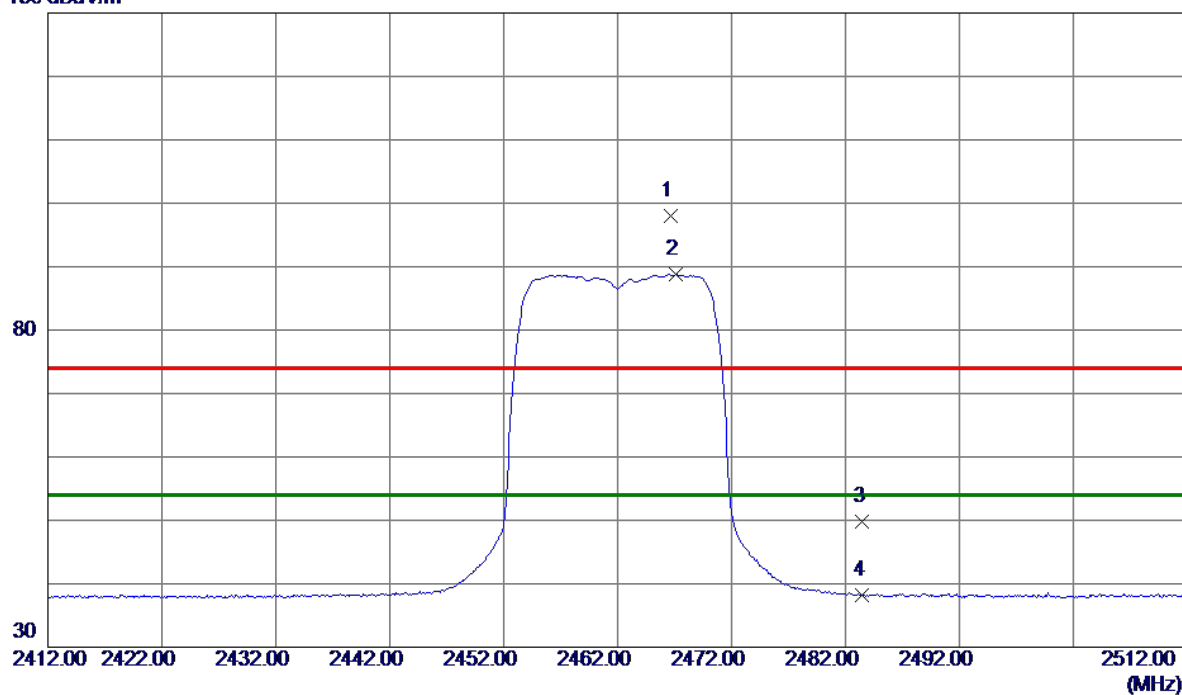


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6498.6500	30.39	10.14	40.53	54.00	-13.47	AVG	
2	6498.7500	36.58	10.14	46.72	74.00	-27.28	Peak	

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

Vertical

130 dBuV/m

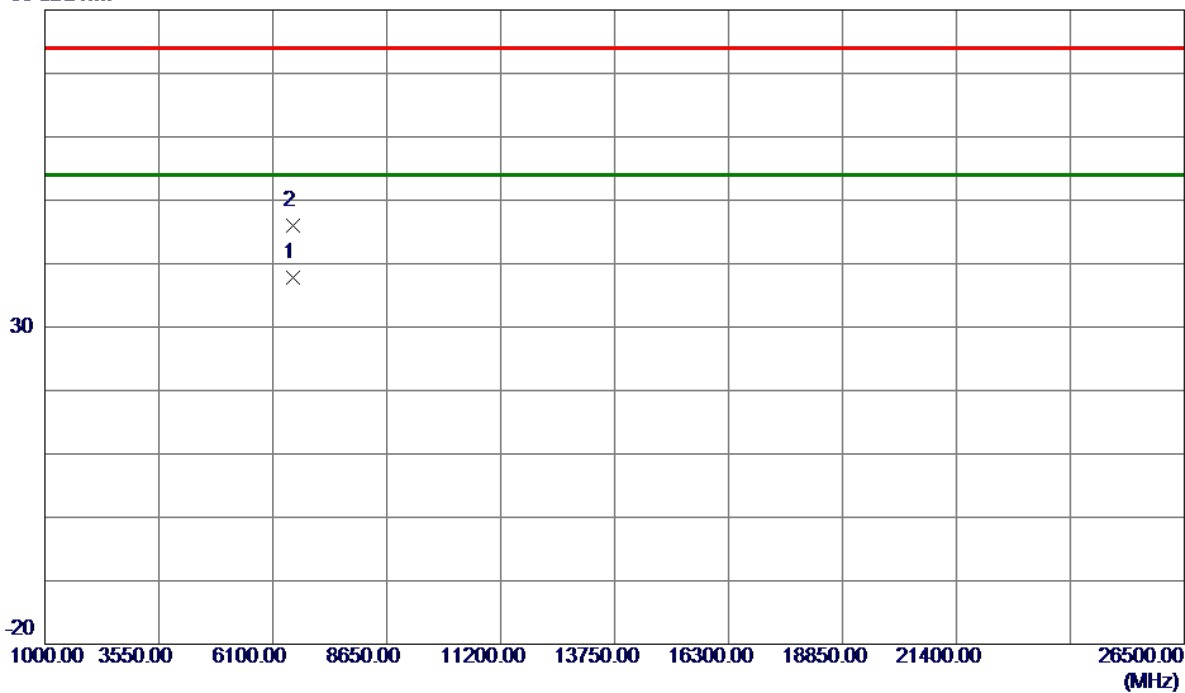


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2466.7000	89.09	8.97	98.06	74.00	24.06	Peak	No Limit
2 *	2467.1000	79.79	8.97	88.76	54.00	34.76	AVG	No Limit
3	2483.5000	40.76	8.97	49.73	74.00	-24.27	Peak	
4	2483.5000	29.16	8.97	38.13	54.00	-15.87	AVG	

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

Vertical

80 dBuV/m

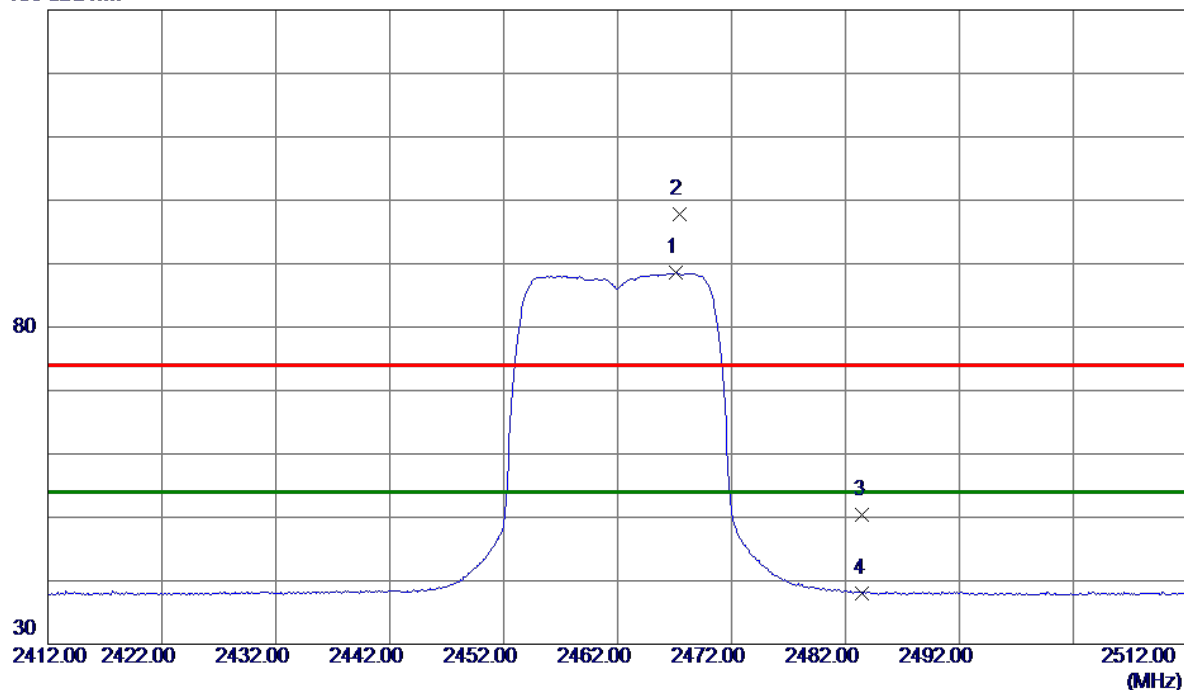


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6565.3100	27.45	10.29	37.74	54.00	-16.26	AVG	
2	6565.7799	35.71	10.29	46.00	74.00	-28.00	Peak	

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

Horizontal

130 dBuV/m

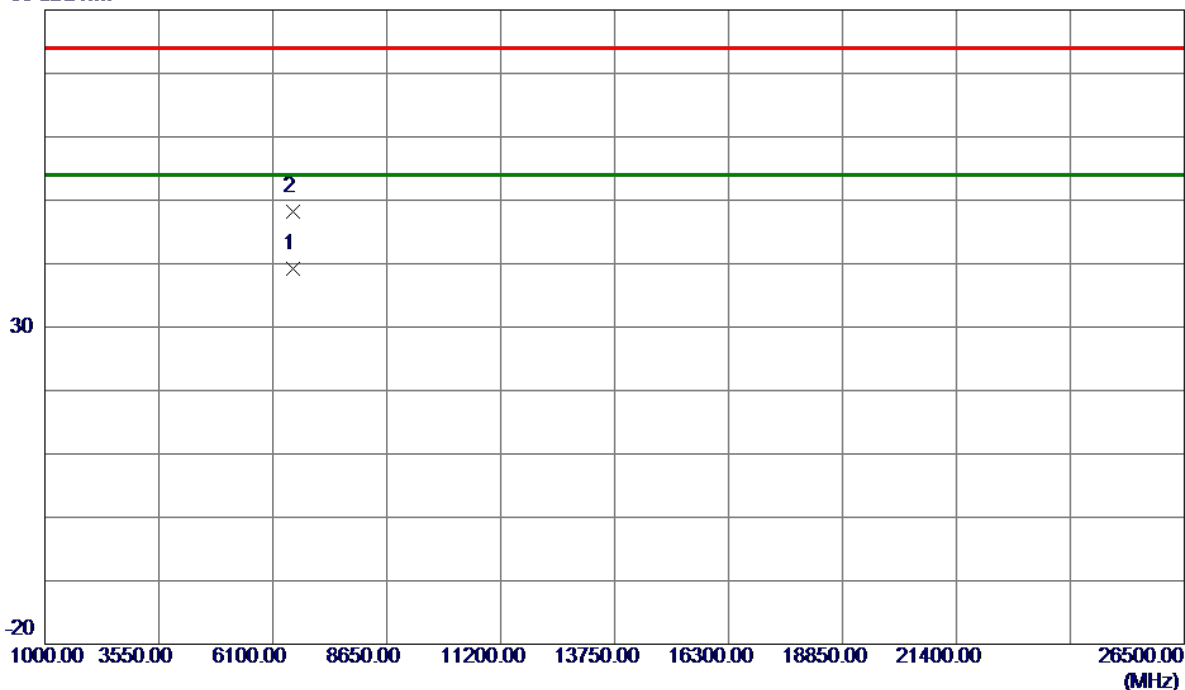


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2467.1000	79.58	8.97	88.55	54.00	34.55	AVG	No Limit
2	2467.4000	88.86	8.97	97.83	74.00	23.83	Peak	No Limit
3	2483.5000	41.43	8.97	50.40	74.00	-23.60	Peak	
4	2483.5000	29.08	8.97	38.05	54.00	-15.95	AVG	

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

Horizontal

80 dBuV/m

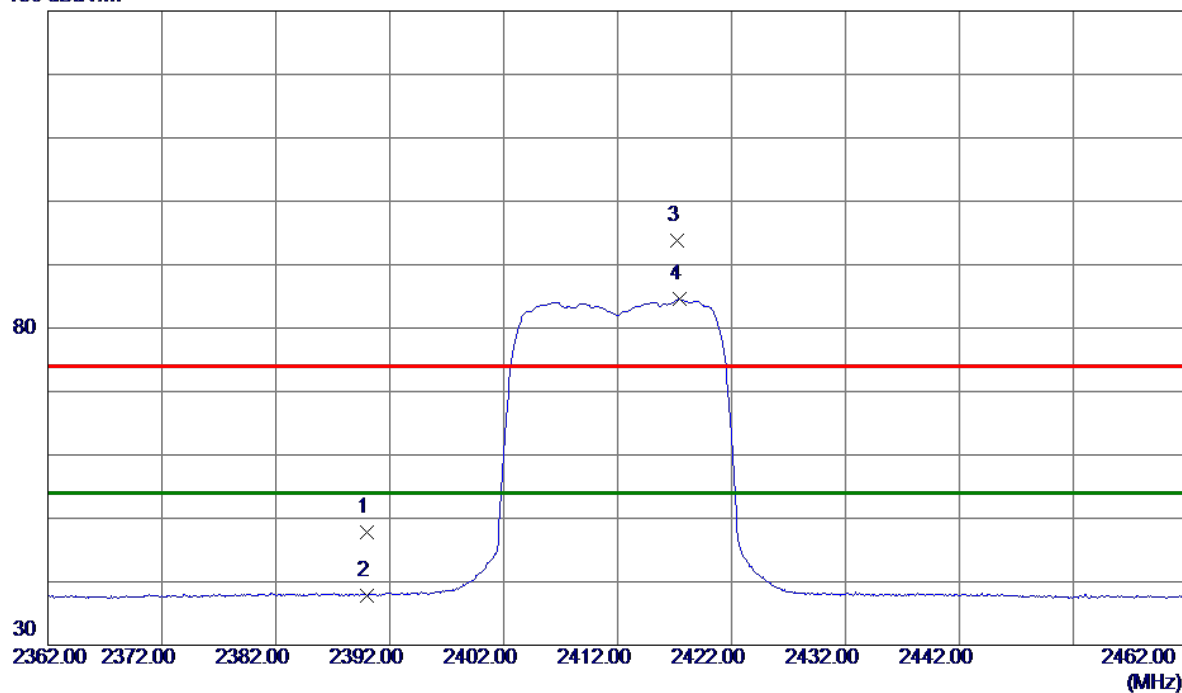


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6565.3100	28.94	10.29	39.23	54.00	-14.77	AVG	
2	6565.4000	37.82	10.29	48.11	74.00	-25.89	Peak	

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

Vertical

130 dBuV/m

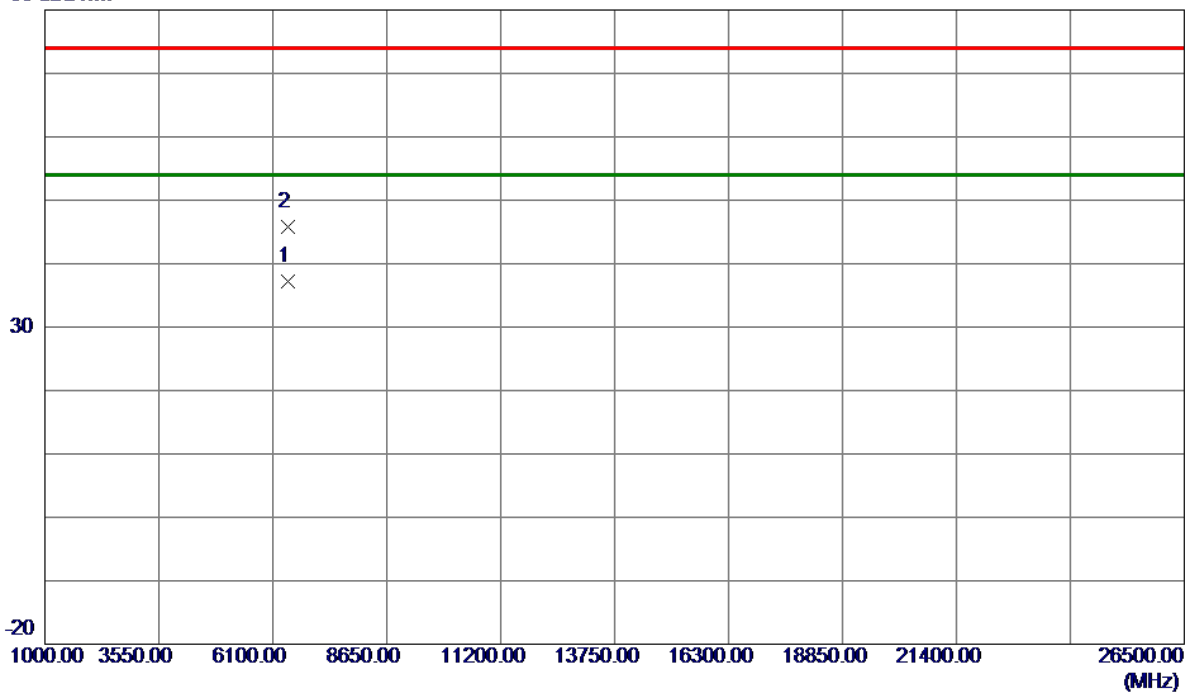


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.74	9.00	47.74	74.00	-26.26	Peak	
2	2390.0000	28.89	9.00	37.89	54.00	-16.11	AVG	
3	2417.2000	84.79	8.99	93.78	74.00	19.78	Peak	No Limit
4 *	2417.4000	75.54	8.99	84.53	54.00	30.53	AVG	No Limit

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

Vertical

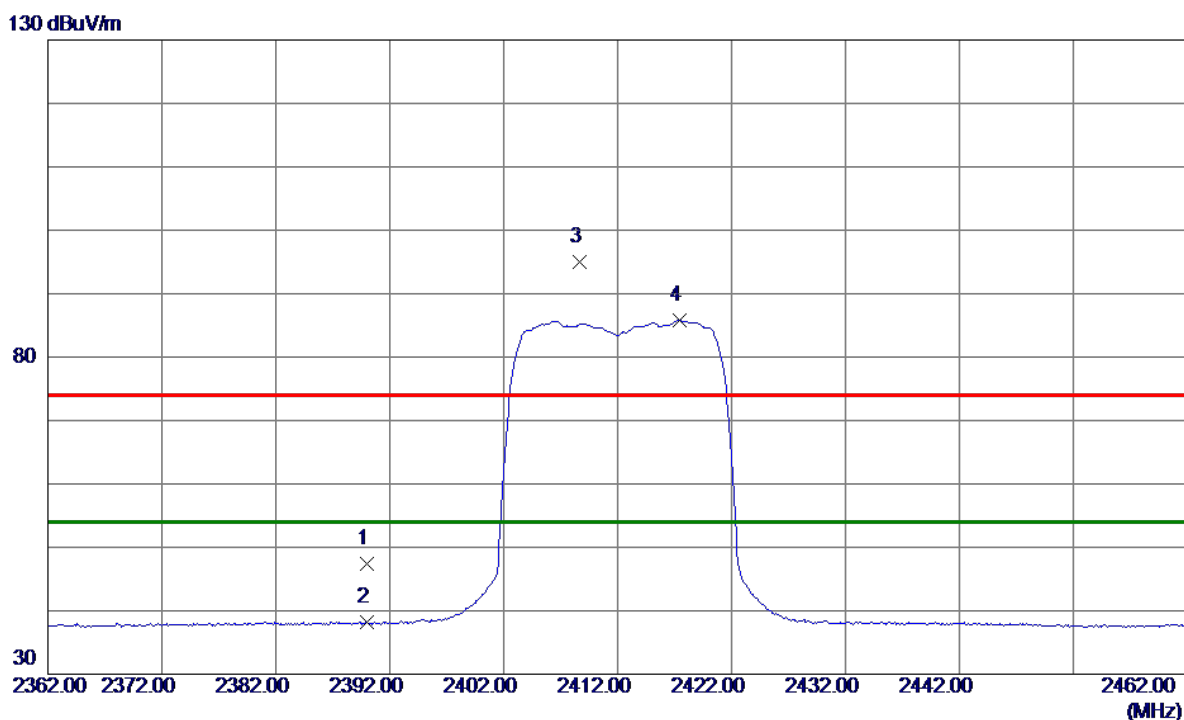
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6432.0099	27.20	10.04	37.24	54.00	-16.76	AVG	
2	6432.8500	35.76	10.05	45.81	74.00	-28.19	Peak	

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

Horizontal

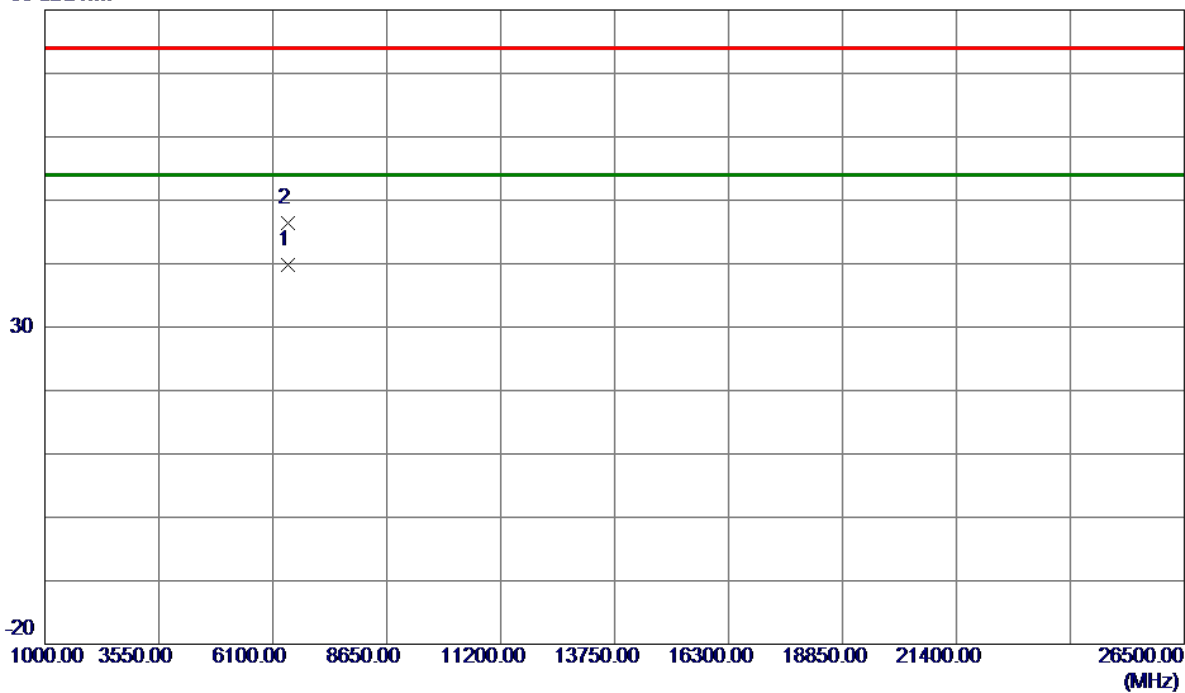


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.38	9.00	47.38	74.00	-26.62	Peak	
2	2390.0000	29.20	9.00	38.20	54.00	-15.80	AVG	
3	2408.7000	86.03	9.00	95.03	74.00	21.03	Peak	No Limit
4 *	2417.4000	76.88	8.99	85.87	54.00	31.87	AVG	No Limit

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

Horizontal

80 dBuV/m

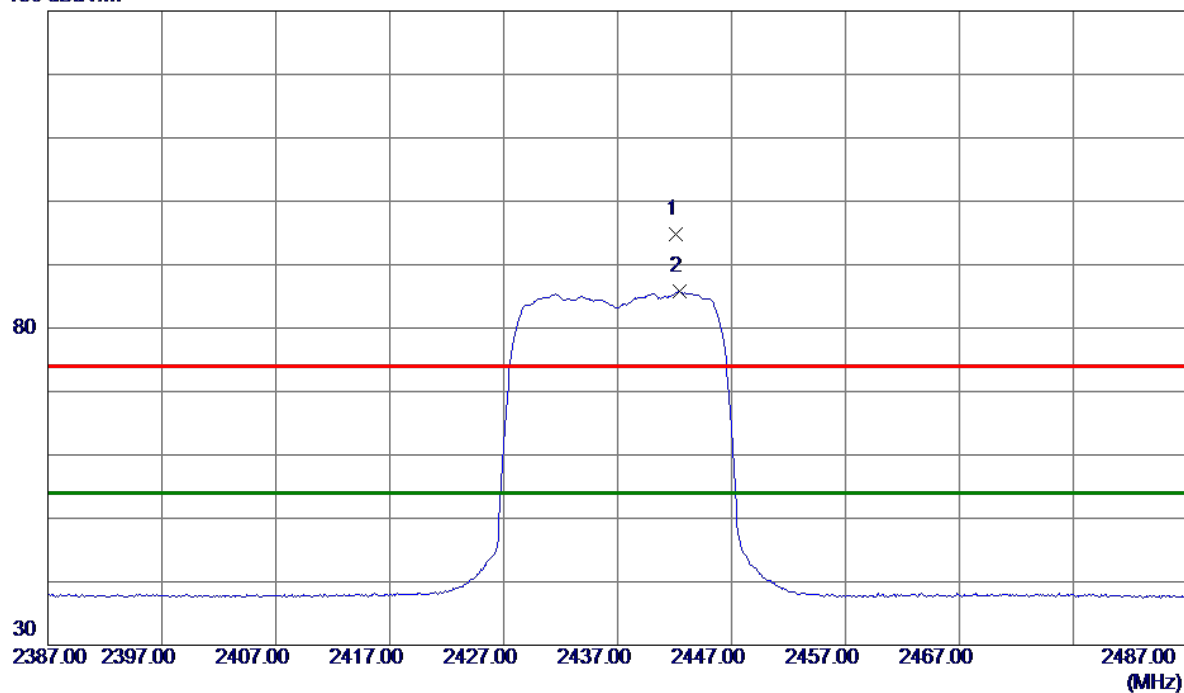


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6432.0299	29.76	10.04	39.80	54.00	-14.20	AVG	
2	6432.1600	36.39	10.05	46.44	74.00	-27.56	Peak	

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

Vertical

130 dBuV/m

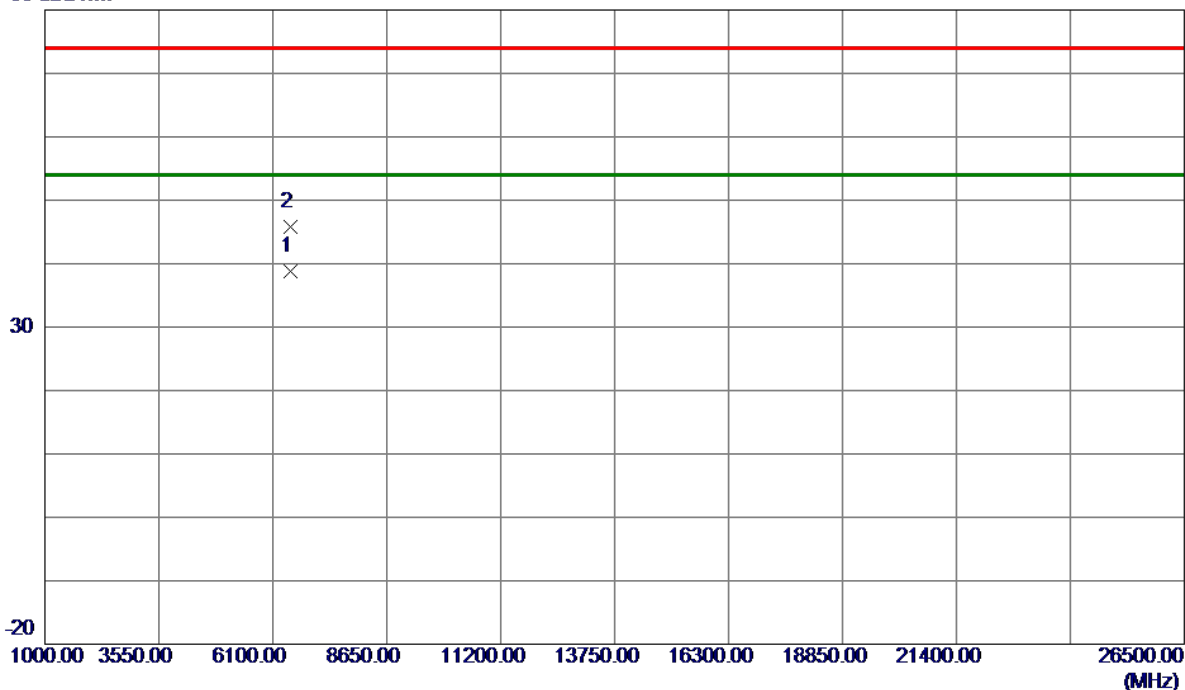


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.1000	85.86	8.98	94.84	74.00	20.84	Peak	No Limit
2 *	2442.4000	76.80	8.98	85.78	54.00	31.78	AVG	No Limit

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

Vertical

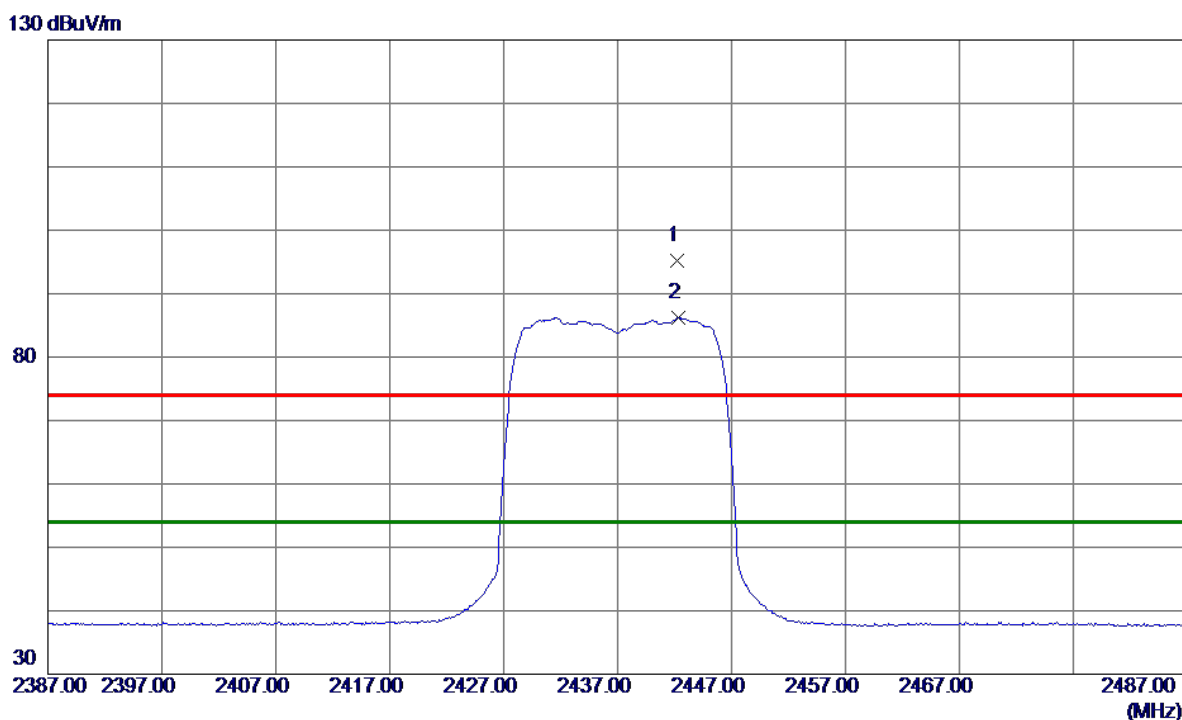
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6498.6000	28.58	10.14	38.72	54.00	-15.28	AVG	
2	6498.6200	35.69	10.14	45.83	74.00	-28.17	Peak	

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

Horizontal

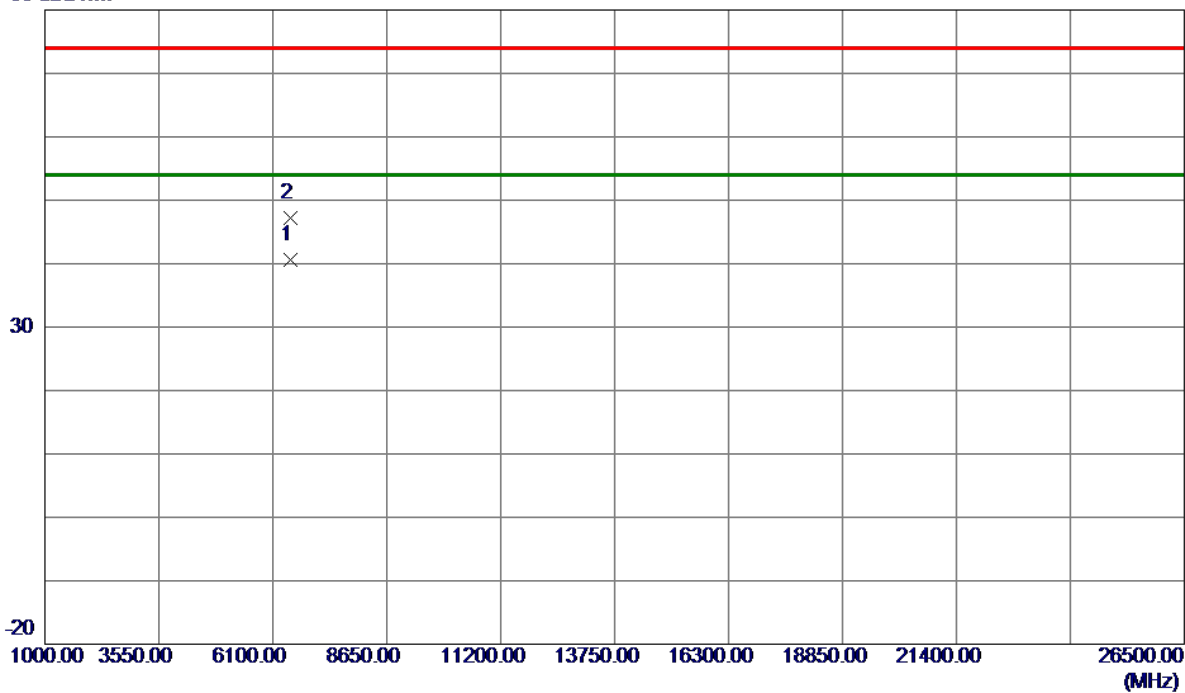


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.2000	86.27	8.98	95.25	74.00	21.25	Peak	No Limit
2 *	2442.3000	77.21	8.98	86.19	54.00	32.19	AVG	No Limit

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

Horizontal

80 dBuV/m

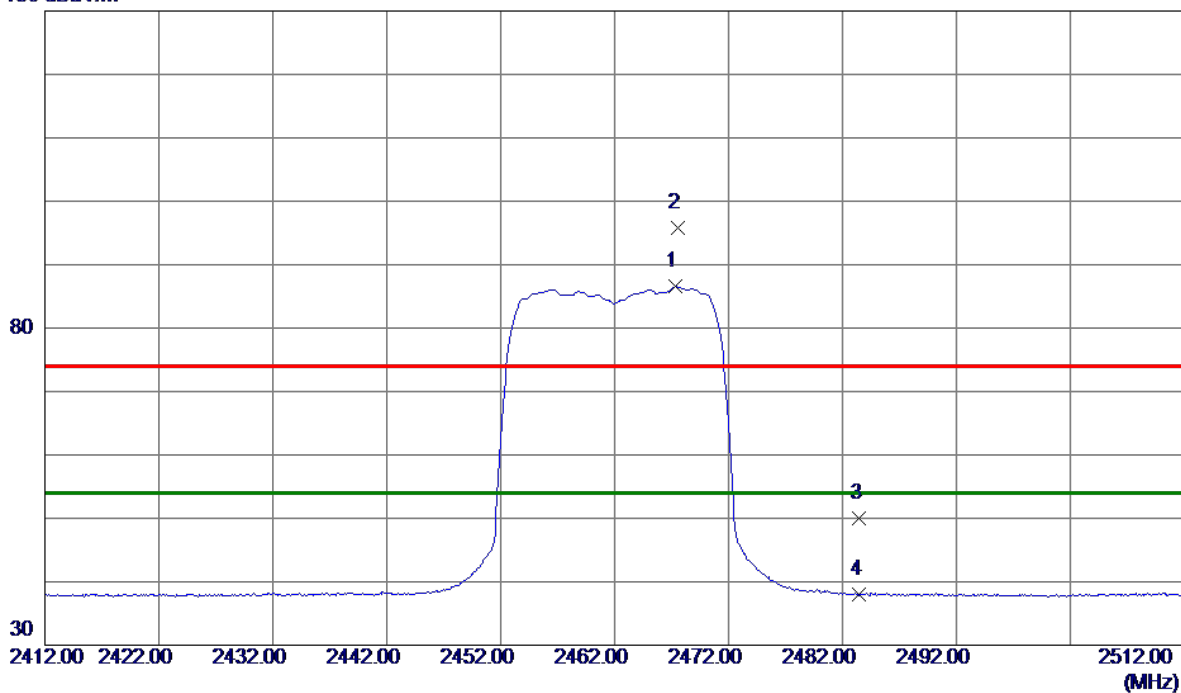


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6498.7300	30.47	10.14	40.61	54.00	-13.39	AVG	
2	6498.8500	37.13	10.14	47.27	74.00	-26.73	Peak	

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

Vertical

130 dBuV/m

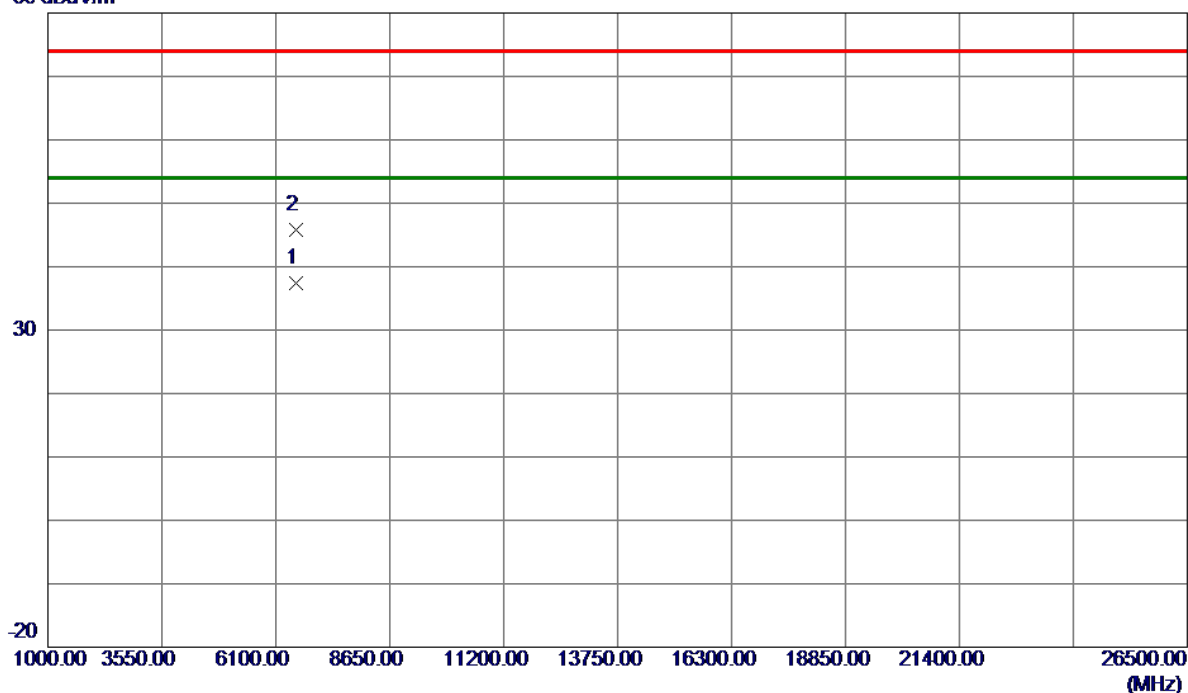


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2467.3000	77.57	8.97	86.54	54.00	32.54	AVG	No Limit
2	2467.6000	86.75	8.97	95.72	74.00	21.72	Peak	No Limit
3	2483.5000	40.97	8.97	49.94	74.00	-24.06	Peak	
4	2483.5000	28.95	8.97	37.92	54.00	-16.08	AVG	

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

Vertical

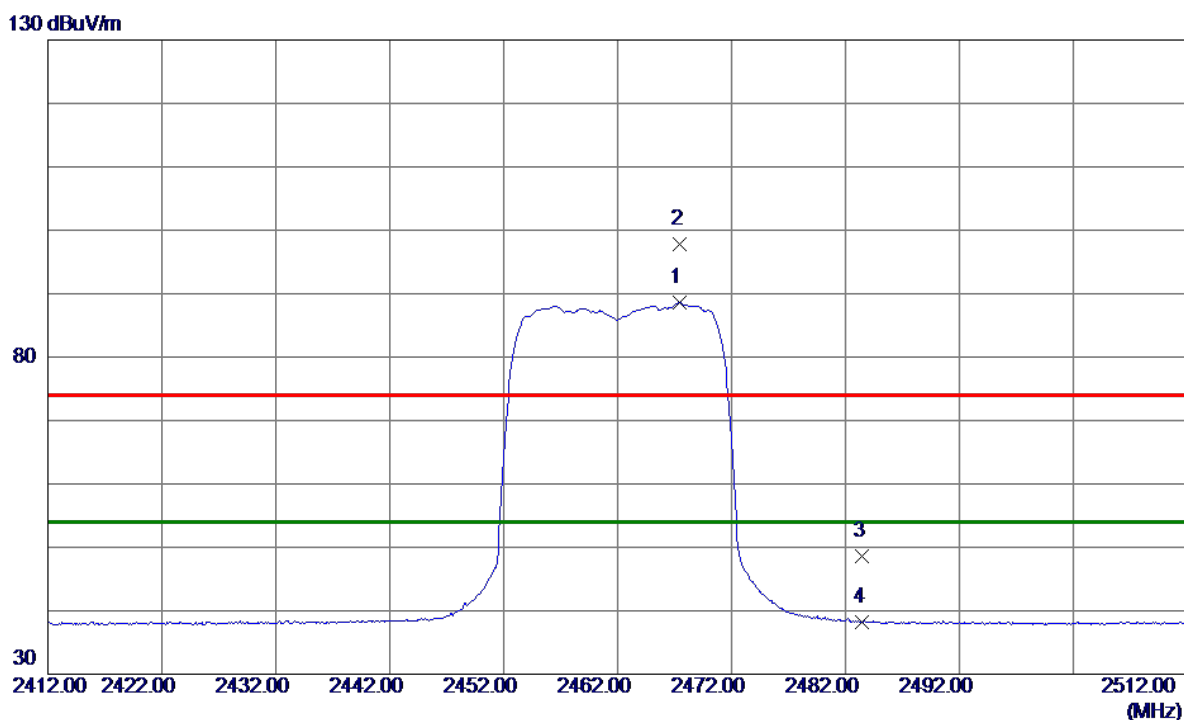
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6565.3800	27.05	10.29	37.34	54.00	-16.66	AVG	
2	6565.5500	35.48	10.29	45.77	74.00	-28.23	Peak	

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

Horizontal

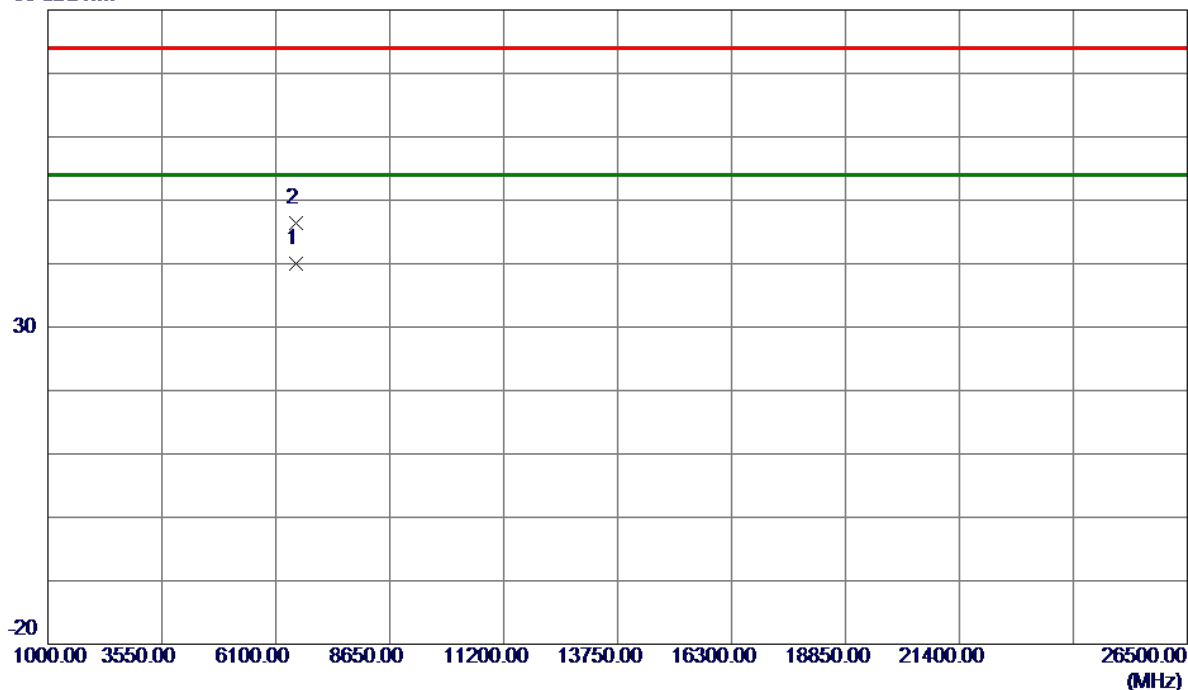


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2467.4000	79.60	8.97	88.57	54.00	34.57	AVG	No Limit
2	2467.5000	88.75	8.97	97.72	74.00	23.72	Peak	No Limit
3	2483.5000	39.66	8.97	48.63	74.00	-25.37	Peak	
4	2483.5000	29.25	8.97	38.22	54.00	-15.78	AVG	

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

Horizontal

80 dBuV/m

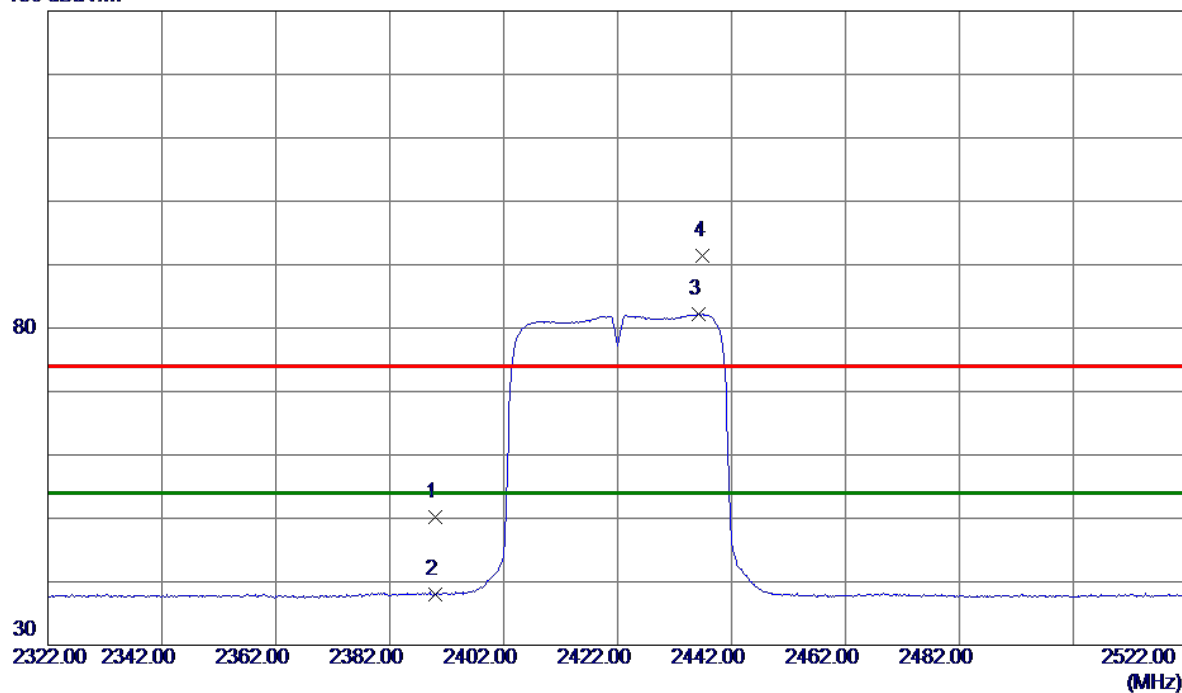


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6565.3600	29.62	10.29	39.91	54.00	-14.09	AVG	
2	6565.4500	36.19	10.29	46.48	74.00	-27.52	Peak	

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

Vertical

130 dBuV/m

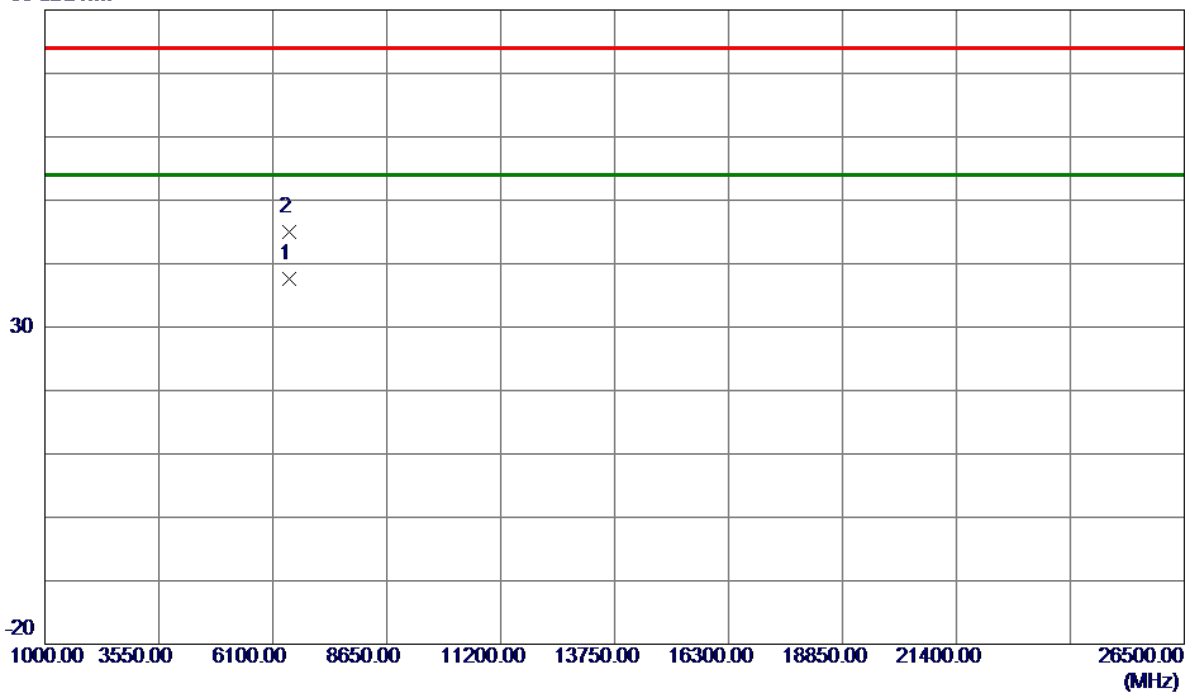


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.22	9.00	50.22	74.00	-23.78	Peak	
2	2390.0000	29.05	9.00	38.05	54.00	-15.95	AVG	
3 *	2436.2000	73.22	8.99	82.21	54.00	28.21	AVG	No Limit
4	2437.0000	82.46	8.99	91.45	74.00	17.45	Peak	No Limit

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

Vertical

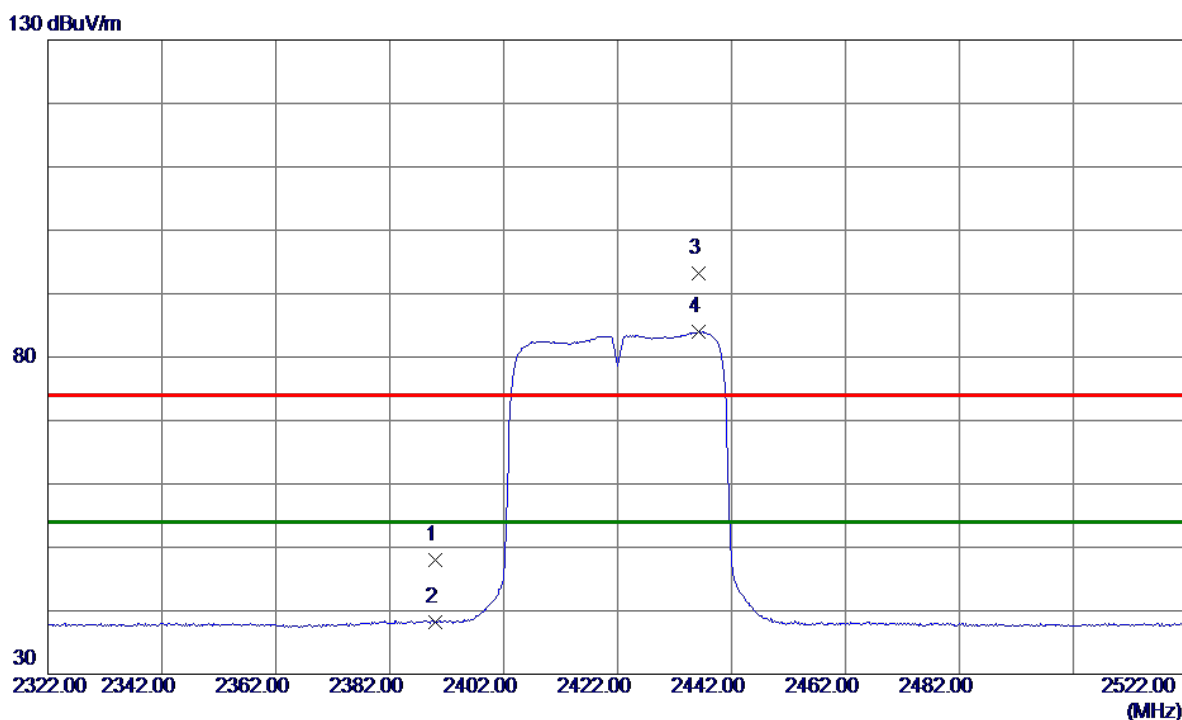
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6458.6500	27.50	10.08	37.58	54.00	-16.42	AVG	
2	6458.6700	34.98	10.08	45.06	74.00	-28.94	Peak	

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

Horizontal

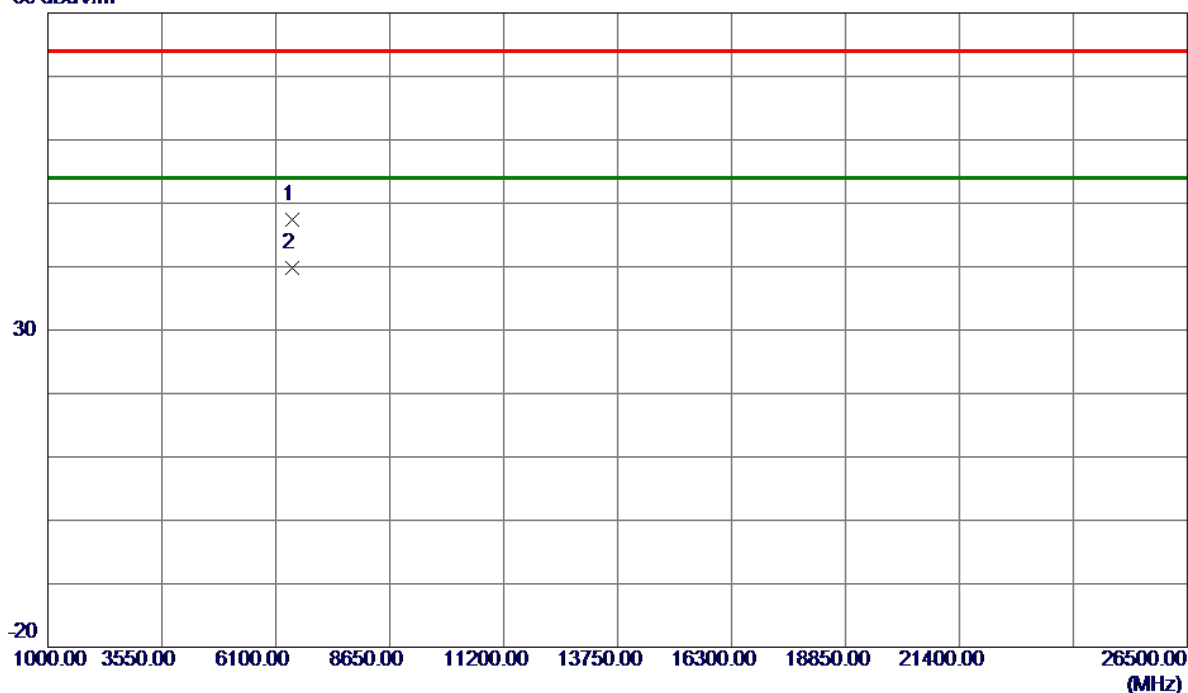


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.91	9.00	47.91	74.00	-26.09	Peak	
2	2390.0000	29.23	9.00	38.23	54.00	-15.77	AVG	
3	2436.2000	84.25	8.99	93.24	74.00	19.24	Peak	No Limit
4 *	2436.2000	74.97	8.99	83.96	54.00	29.96	AVG	No Limit

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

Horizontal

80 dBuV/m

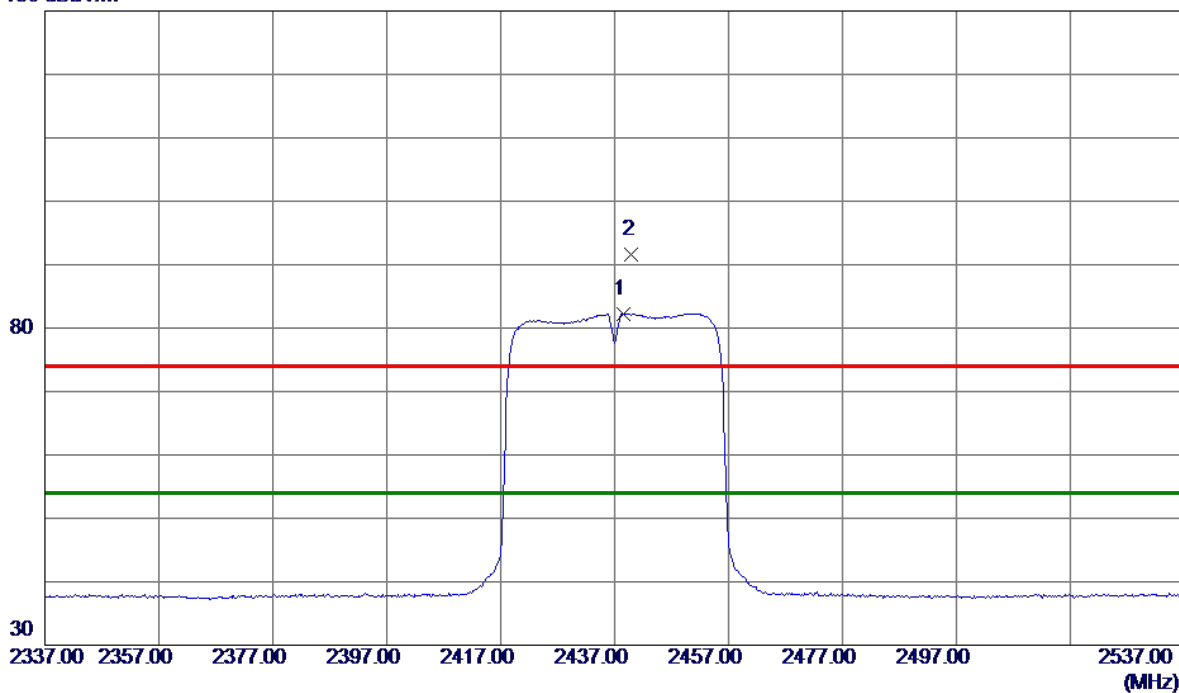


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6458.5800	37.34	10.08	47.42	74.00	-26.58	Peak	
2 *	6458.7300	29.77	10.08	39.85	54.00	-14.15	AVG	

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

Vertical

130 dBuV/m

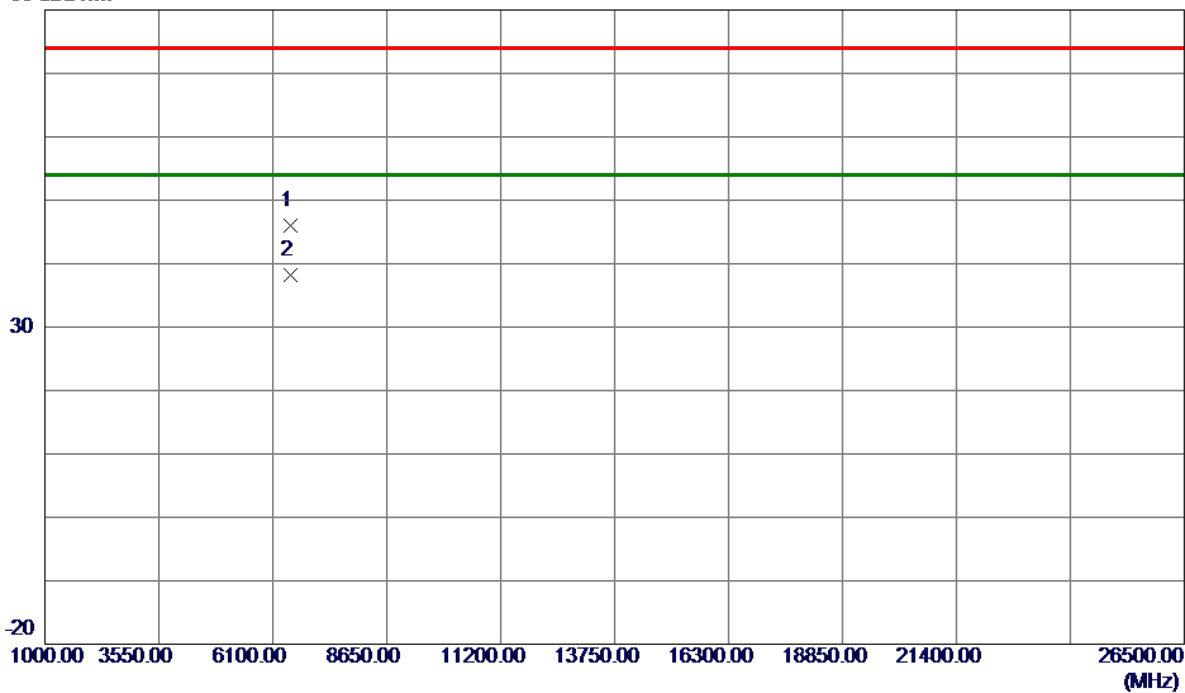


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.6000	73.31	8.98	82.29	54.00	28.29	AVG	No Limit
2	2440.0000	82.55	8.98	91.53	74.00	17.53	Peak	No Limit

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

Vertical

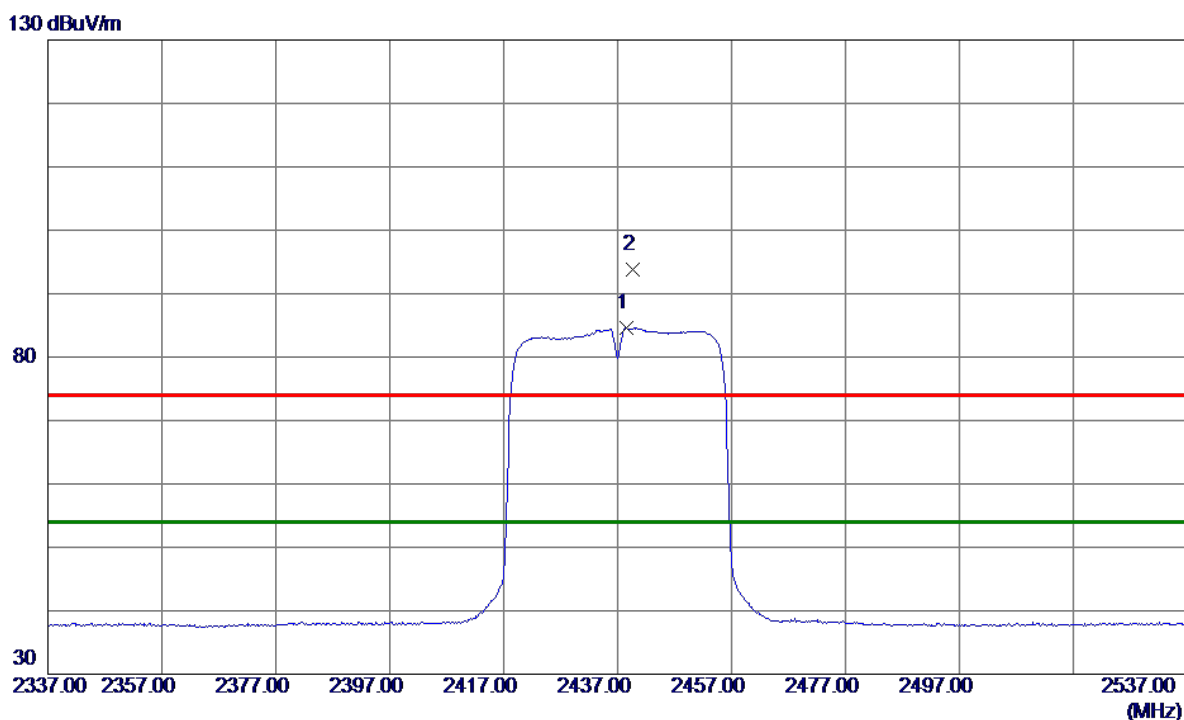
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6498.5000	35.94	10.14	46.08	74.00	-27.92	Peak	
2 *	6498.6900	28.05	10.14	38.19	54.00	-15.81	AVG	

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

Horizontal

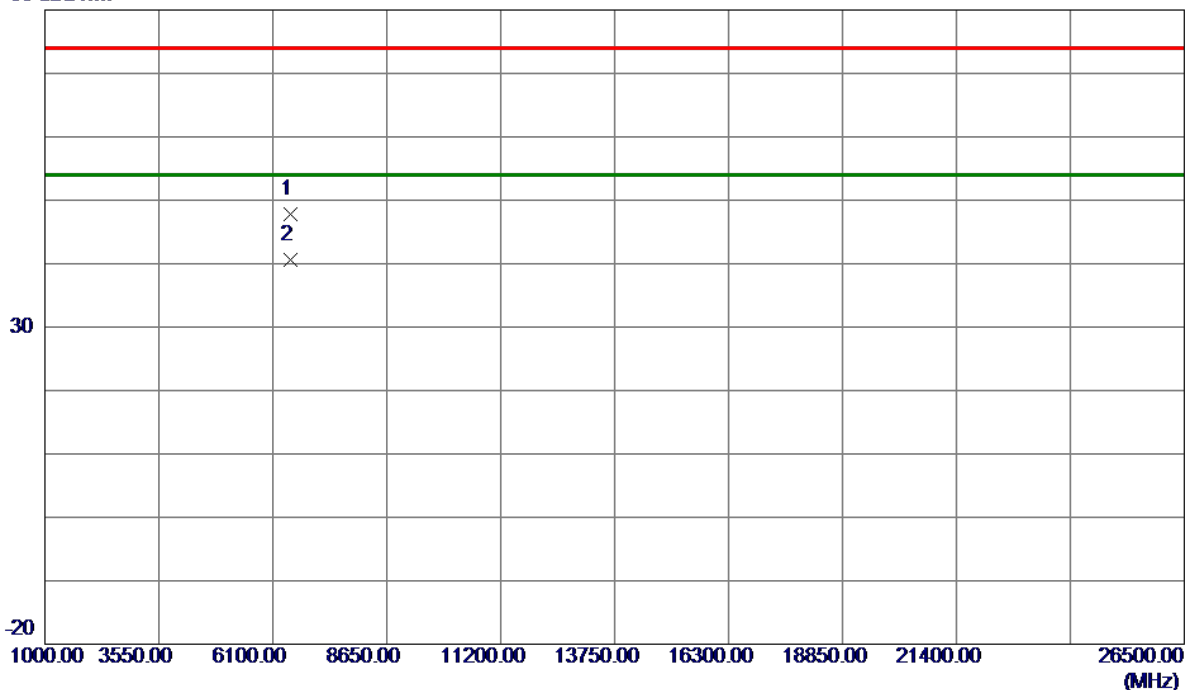


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.6000	75.57	8.98	84.55	54.00	30.55	AVG	No Limit
2	2439.6000	84.85	8.98	93.83	74.00	19.83	Peak	No Limit

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

Horizontal

80 dBuV/m

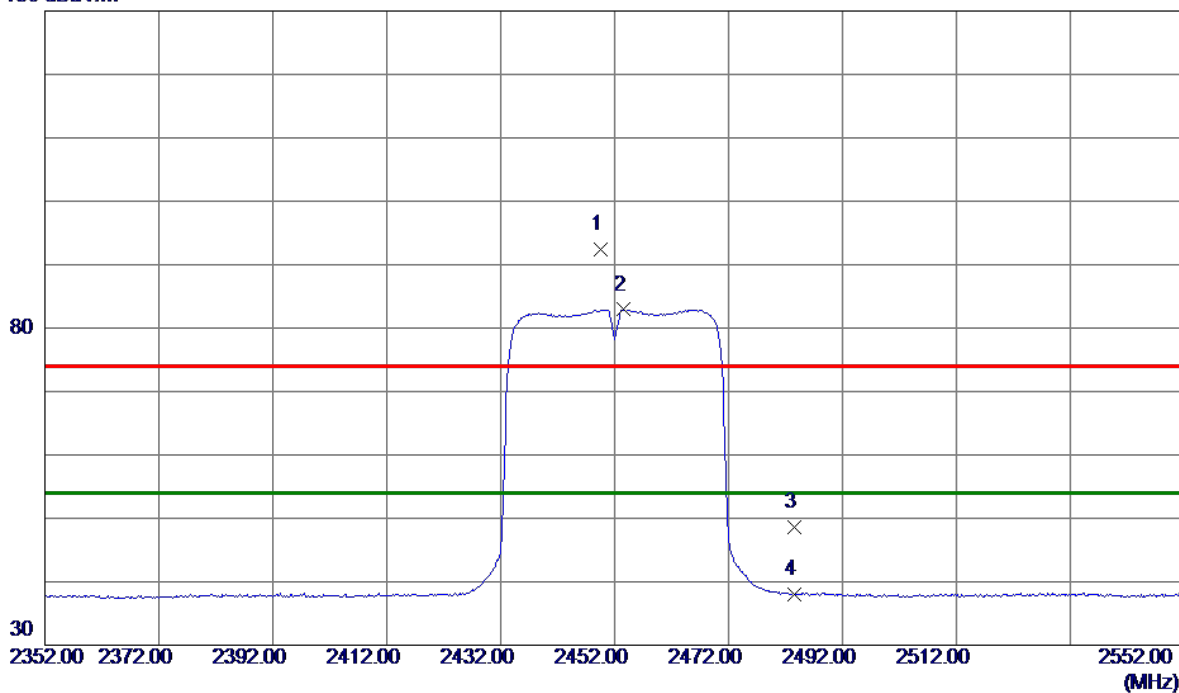


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6498.4800	37.58	10.14	47.72	74.00	-26.28	Peak	
2 *	6498.7100	30.45	10.14	40.59	54.00	-13.41	AVG	

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

Vertical

130 dBuV/m

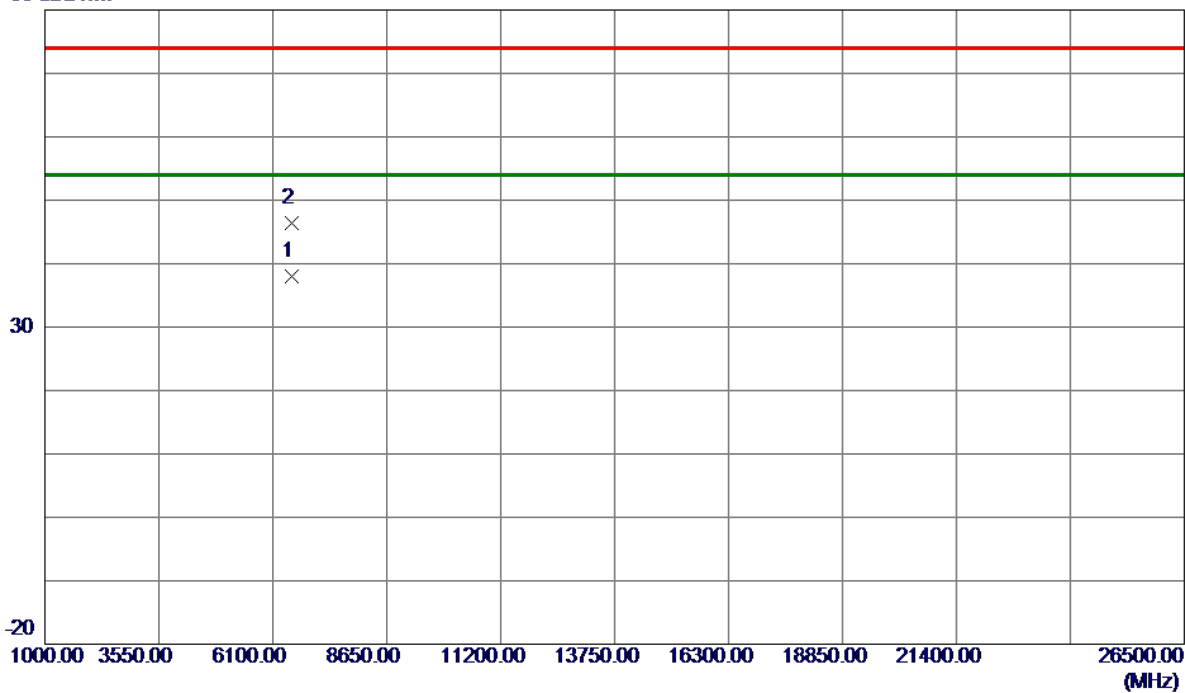


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2449.6000	83.49	8.98	92.47	74.00	18.47	Peak	No Limit
2 *	2453.6000	73.92	8.98	82.90	54.00	28.90	AVG	No Limit
3	2483.5000	39.60	8.97	48.57	74.00	-25.43	Peak	
4	2483.5000	29.06	8.97	38.03	54.00	-15.97	AVG	

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

Vertical

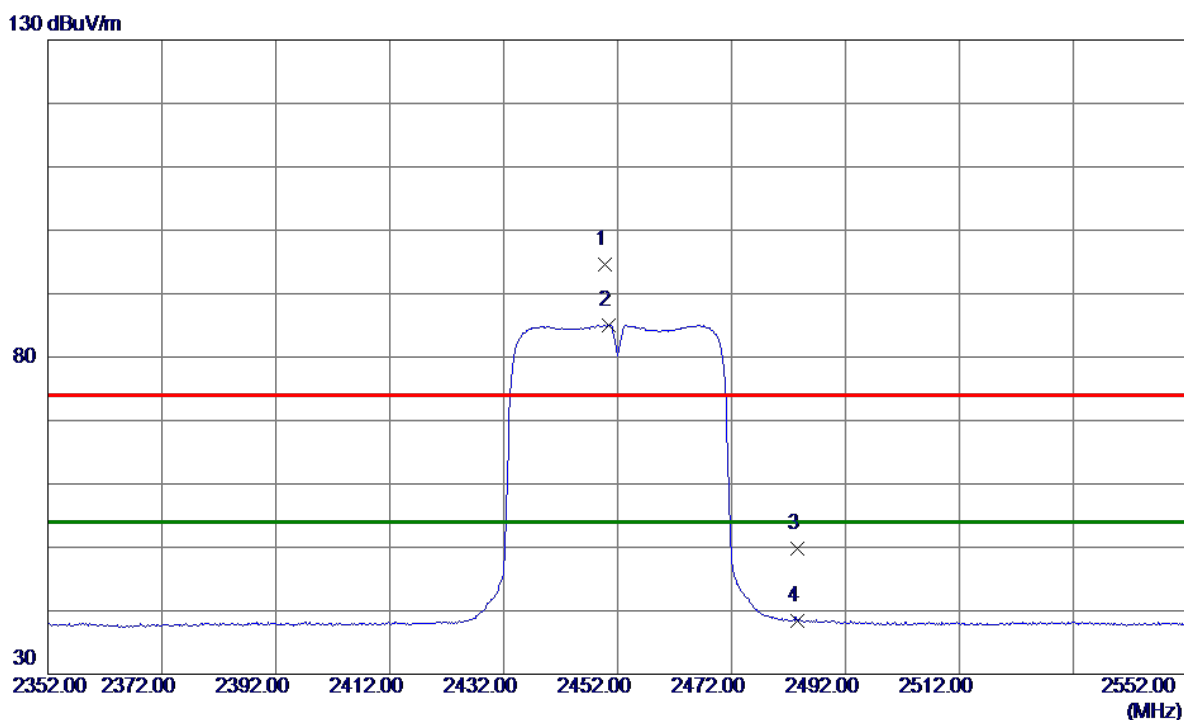
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6538.6900	27.85	10.23	38.08	54.00	-15.92	AVG	
2	6538.8600	36.17	10.23	46.40	74.00	-27.60	Peak	

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

Horizontal

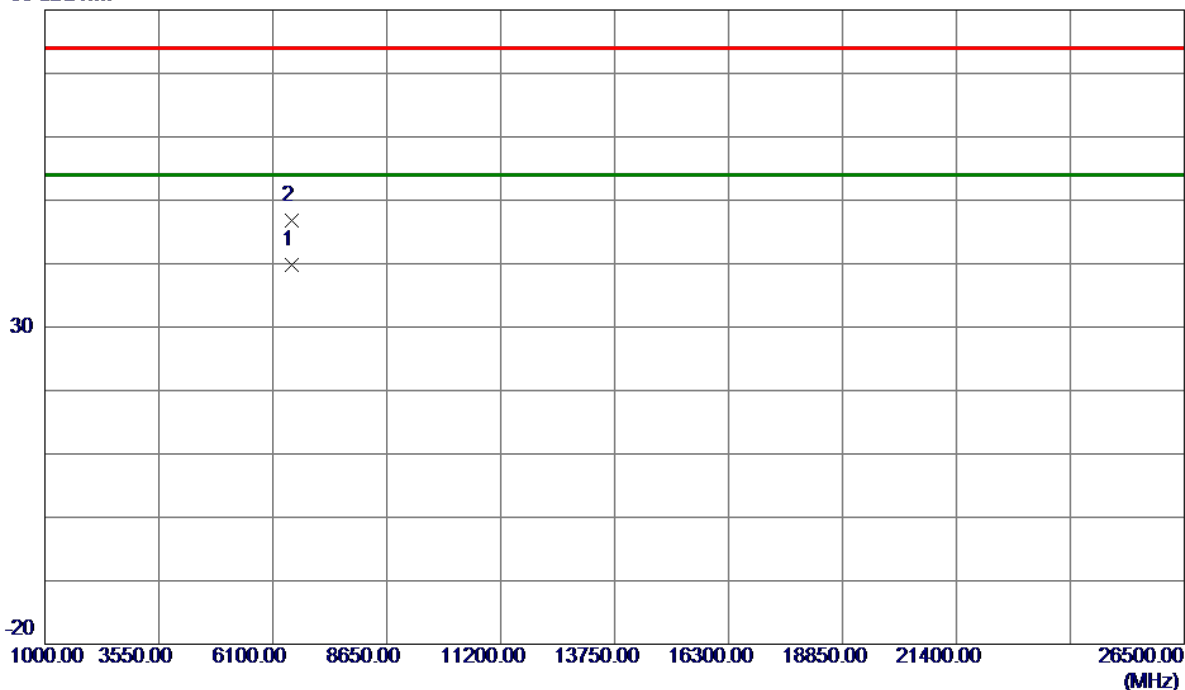


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2449.8000	85.60	8.98	94.58	74.00	20.58	Peak	No Limit
2 *	2450.4000	76.02	8.98	85.00	54.00	31.00	AVG	No Limit
3	2483.5000	40.91	8.97	49.88	74.00	-24.12	Peak	
4	2483.5000	29.48	8.97	38.45	54.00	-15.55	AVG	

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

Horizontal

80 dBuV/m



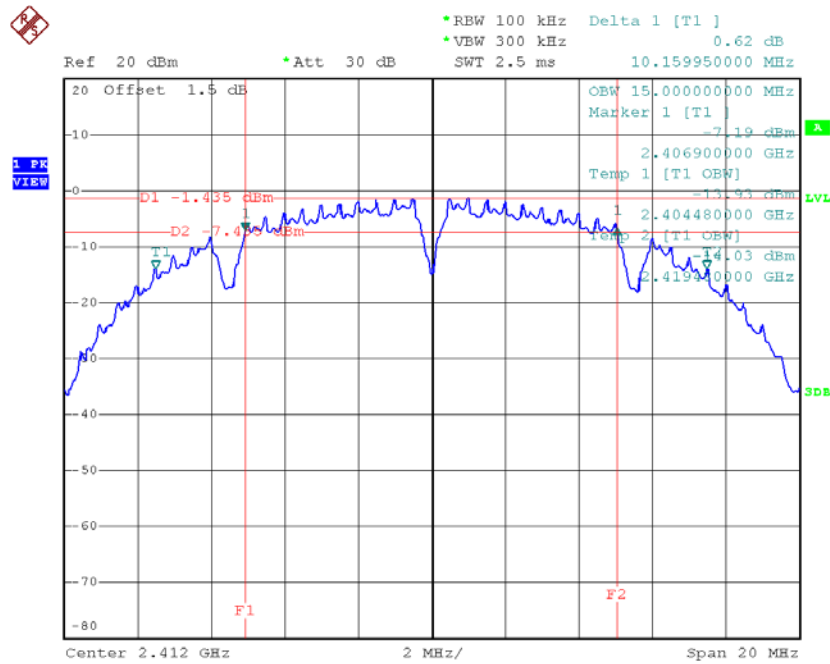
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6538.6600	29.53	10.23	39.76	54.00	-14.24	AVG	
2	6538.7799	36.58	10.23	46.81	74.00	-27.19	Peak	

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

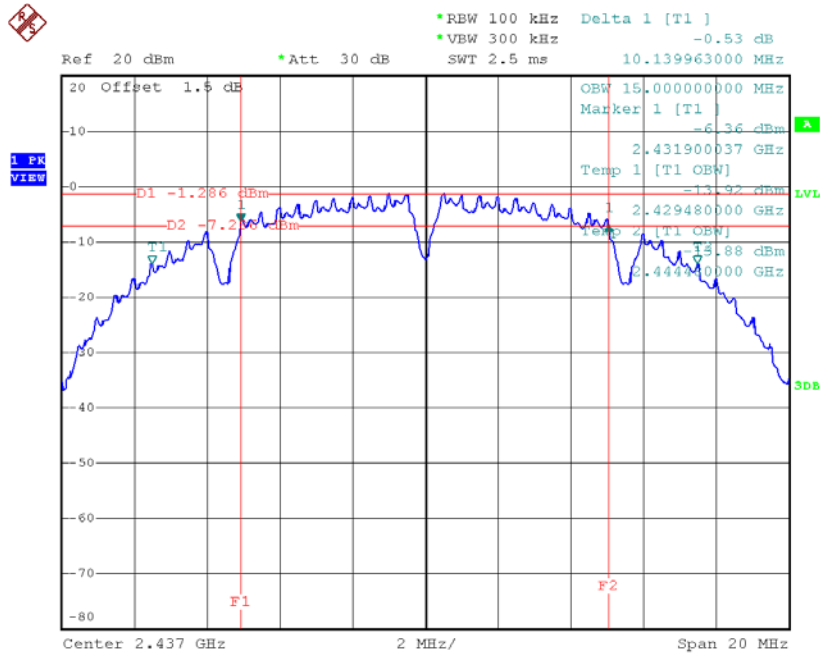
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.16	15	500	Complies
2437	10.14	15	500	Complies
2462	10.16	14.96	500	Complies

TX CH01



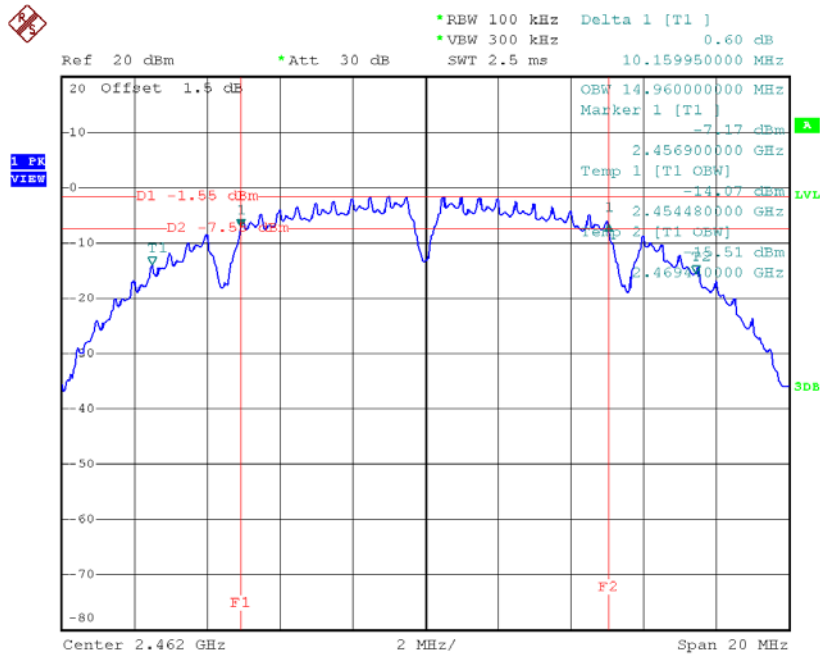
Date: 7.MAY.2018 11:51:07

TX CH06



Date: 7.MAY.2018 11:53:05

TX CH11

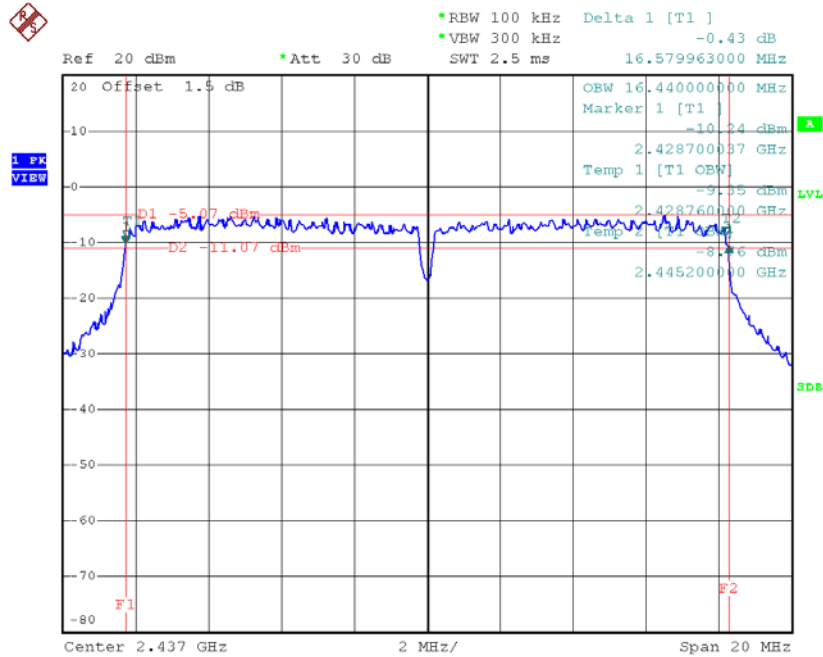


Date: 7.MAY.2018 11:54:41

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.62	16.48	500	Complies
2437	16.58	16.44	500	Complies
2462	16.58	16.44	500	Complies

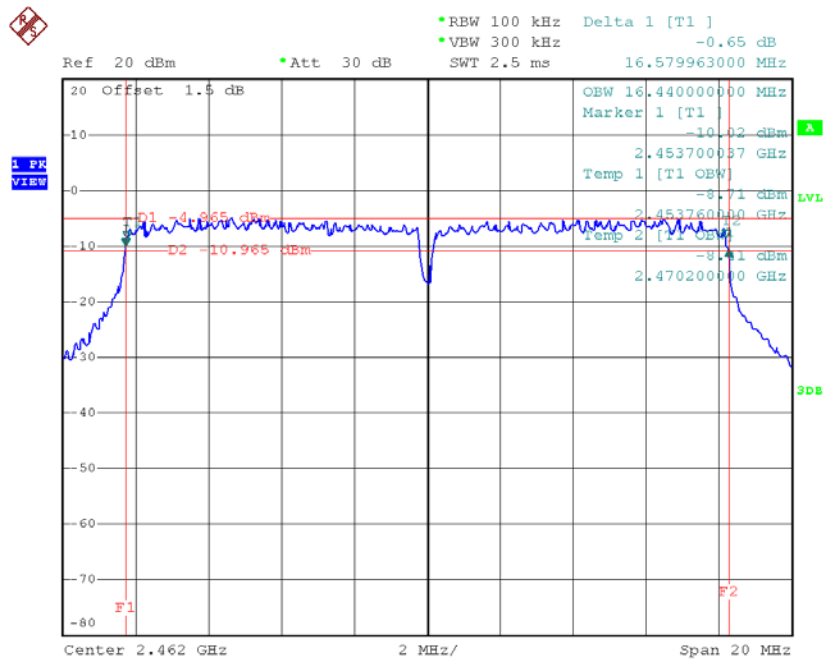


TX CH06



Date: 7.MAY.2018 13:57:48

TX CH11

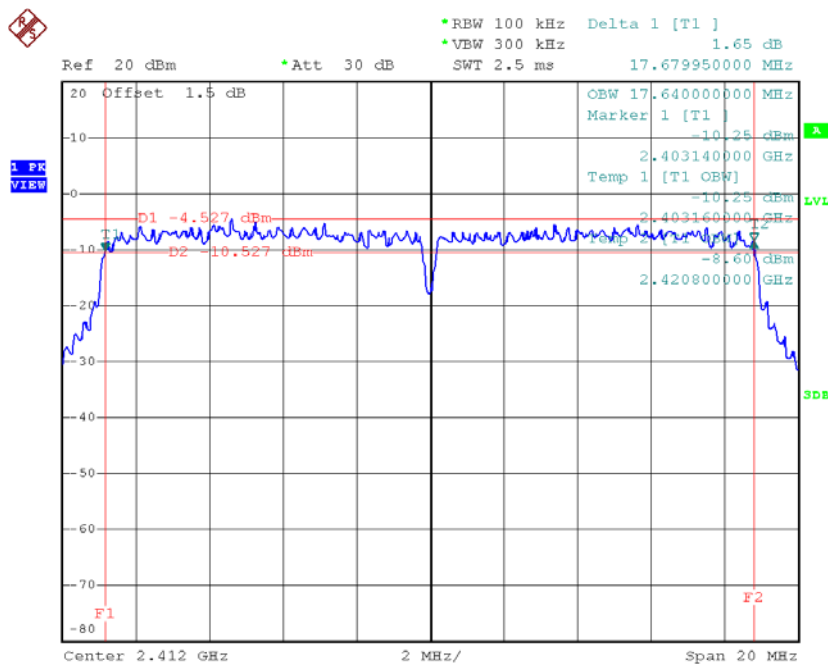


Date: 7.MAY.2018 13:59:10

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

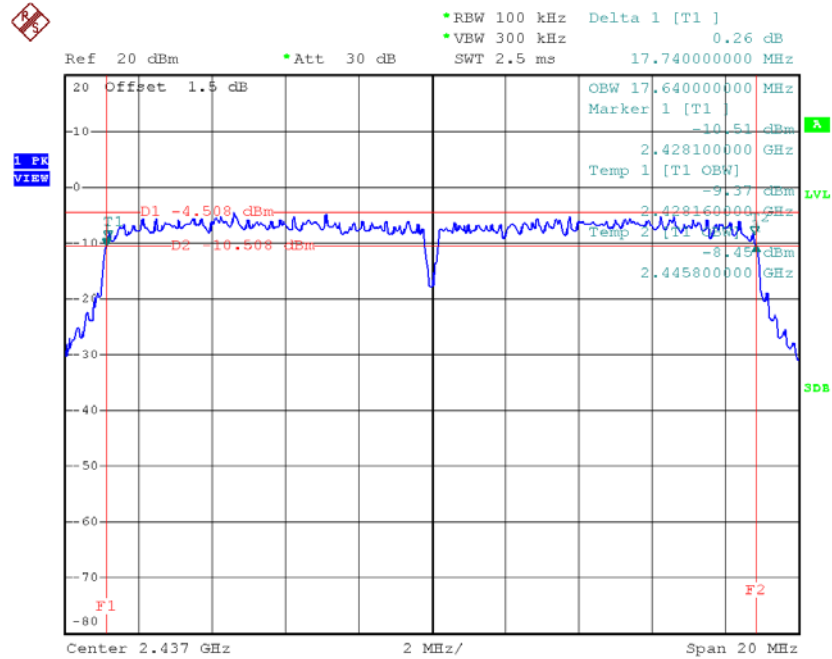
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.68	17.64	500	Complies
2437	17.74	17.64	500	Complies
2462	17.75	17.64	500	Complies

TX CH01



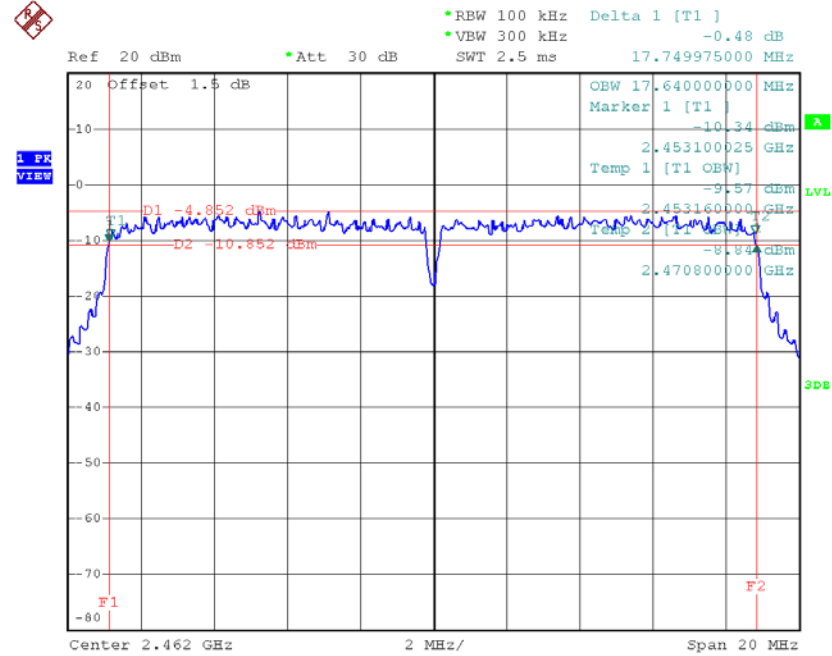
Date: 7.MAY.2018 14:00:37

TX CH06



Date: 7.MAY.2018 14:02:03

TX CH11

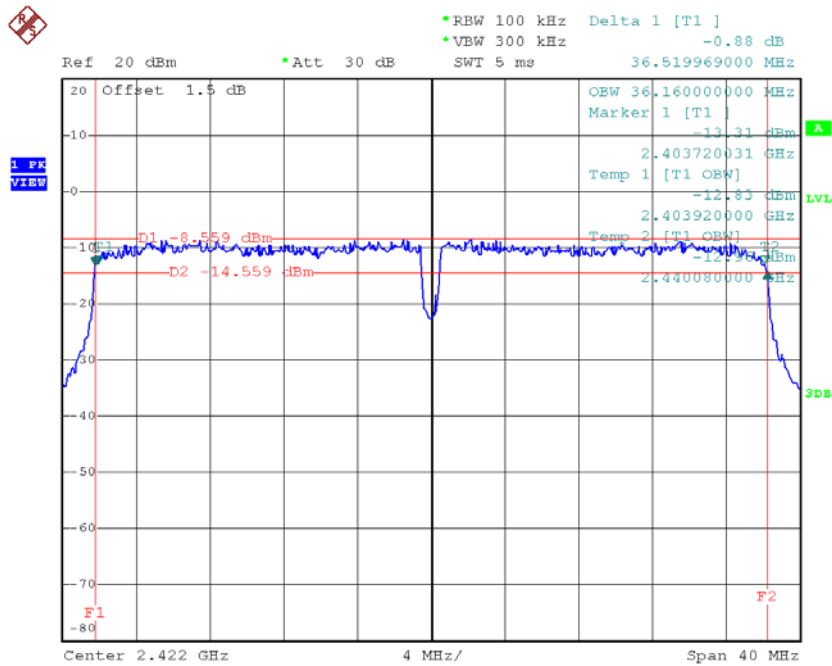


Date: 7.MAY.2018 14:03:22

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

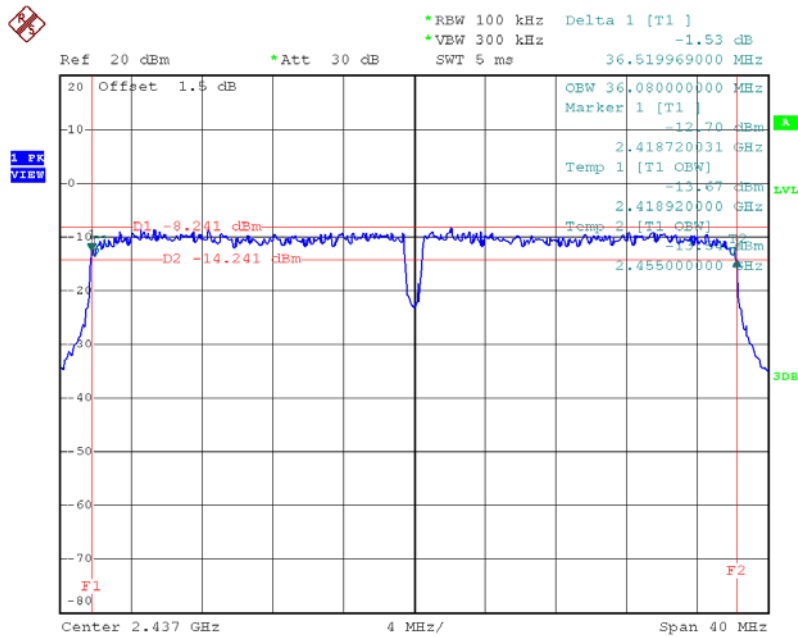
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.52	36.16	500	Complies
2437	36.52	36.08	500	Complies
2452	36.52	36.16	500	Complies

TX CH03



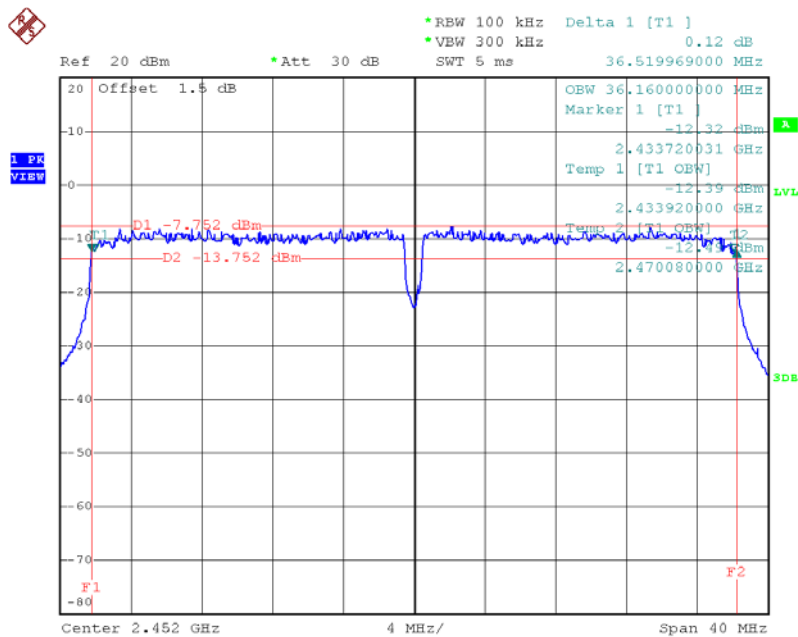
Date: 7.MAY.2018 14:04:50

TX CH06



Date: 7.MAY.2018 14:06:14

TX CH09



Date: 7.MAY.2018 14:07:35

APPENDIX 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	9.36	0.0086	30.00	1.00	Complies
2437	9.47	0.0089	30.00	1.00	Complies
2462	9.32	0.0086	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	9.35	0.0086	30.00	1.00	Complies
2437	9.45	0.0088	30.00	1.00	Complies
2462	9.62	0.0092	30.00	1.00	Complies

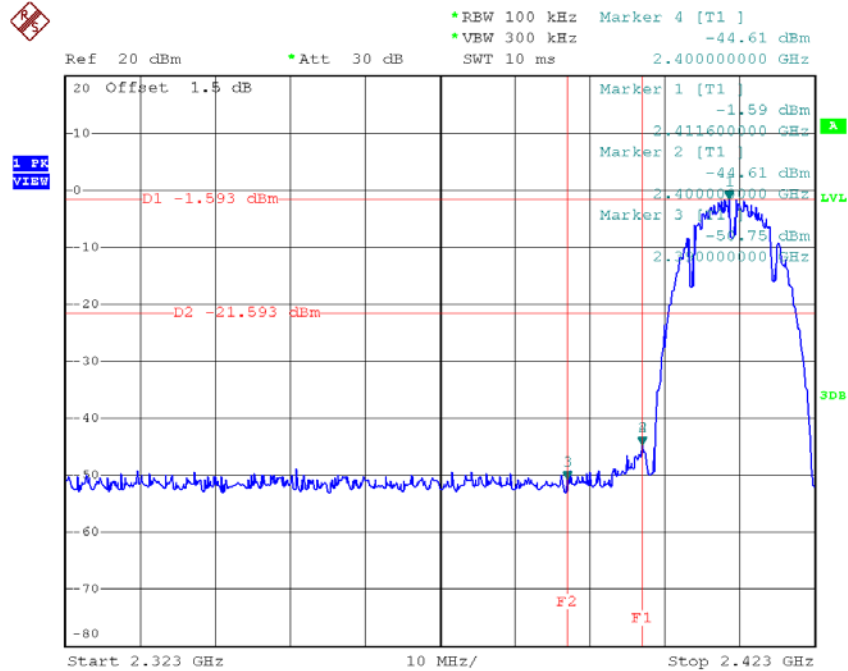
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	9.34	0.0086	30.00	1.00	Complies
2437	9.29	0.0085	30.00	1.00	Complies
2462	9.58	0.0091	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	9.23	0.0084	30.00	1.00	Complies
2437	9.14	0.0082	30.00	1.00	Complies
2452	9.56	0.0090	30.00	1.00	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

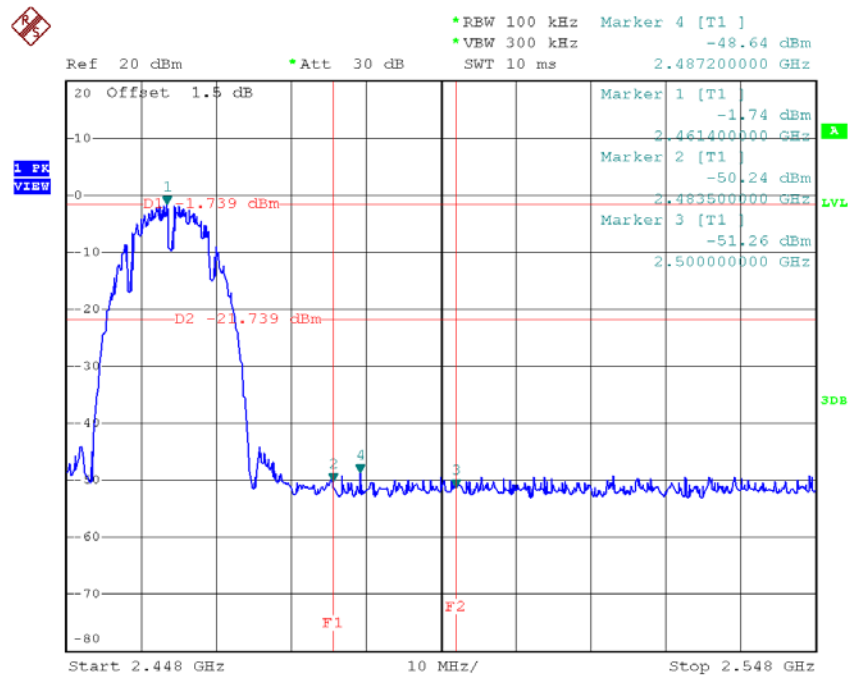
Test Mode : TX B Mode

TX B mode CH01



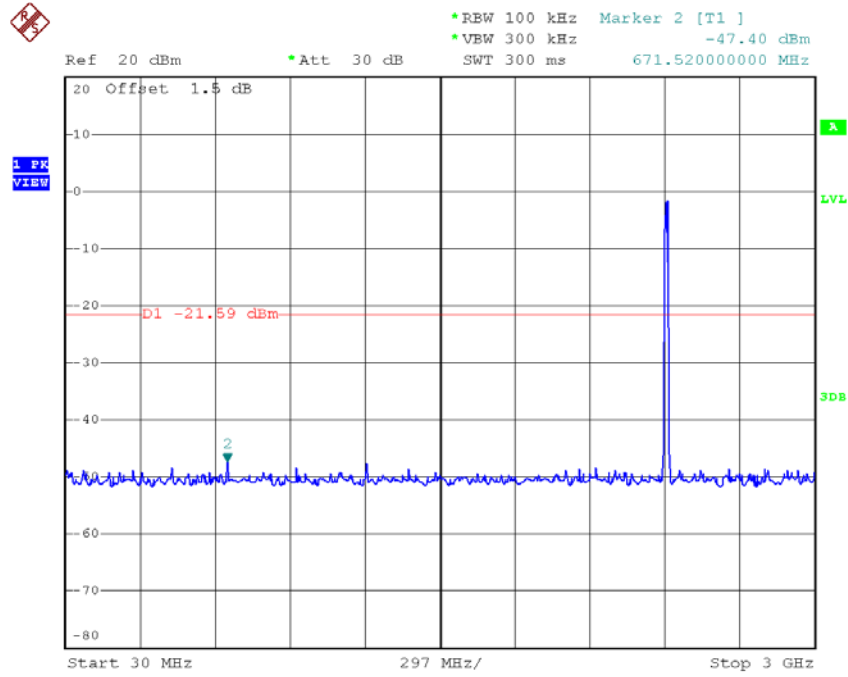
Date: 7.MAY.2018 11:51:16

TX B mode CH11

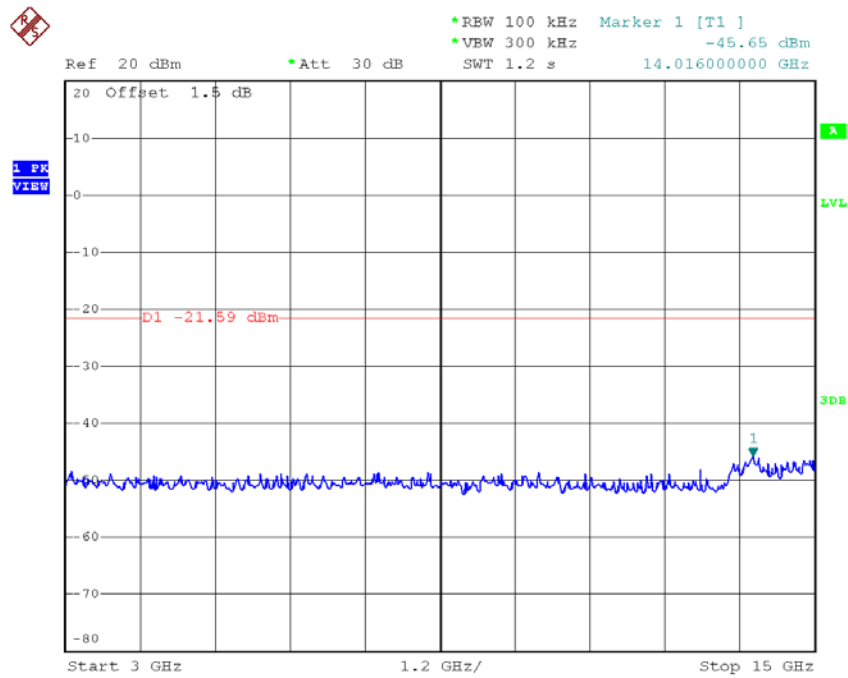


Date: 7.MAY.2018 11:54:49

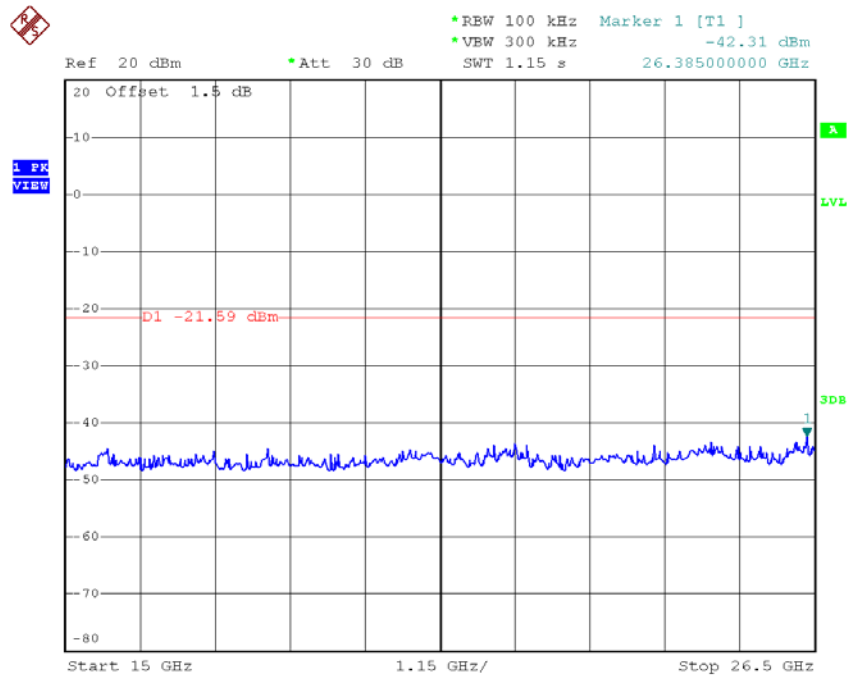
TX B mode CH01 (10 Harmonic of the frequency)



Date: 7.MAY.2018 11:51:30

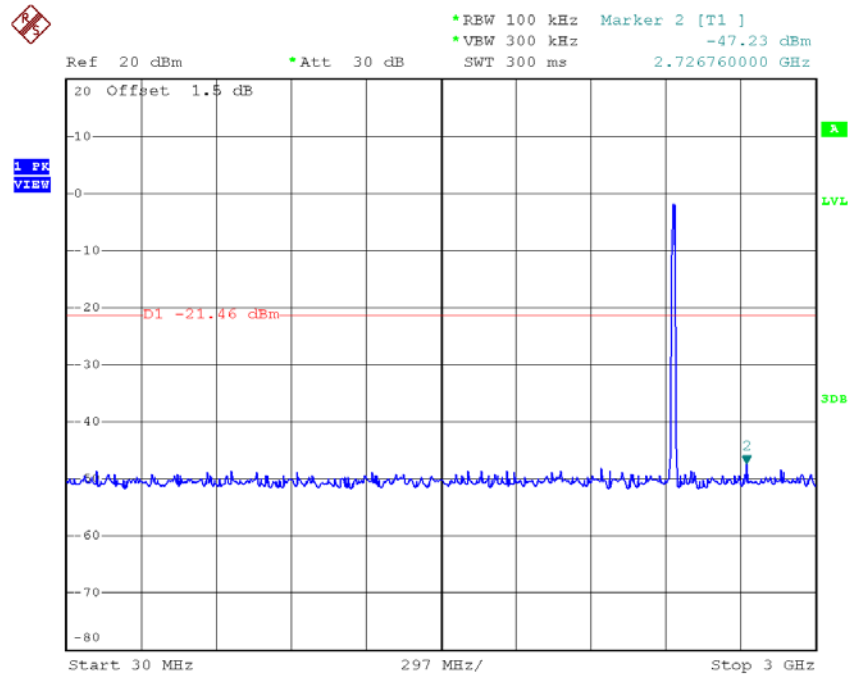


Date: 7.MAY.2018 11:51:38

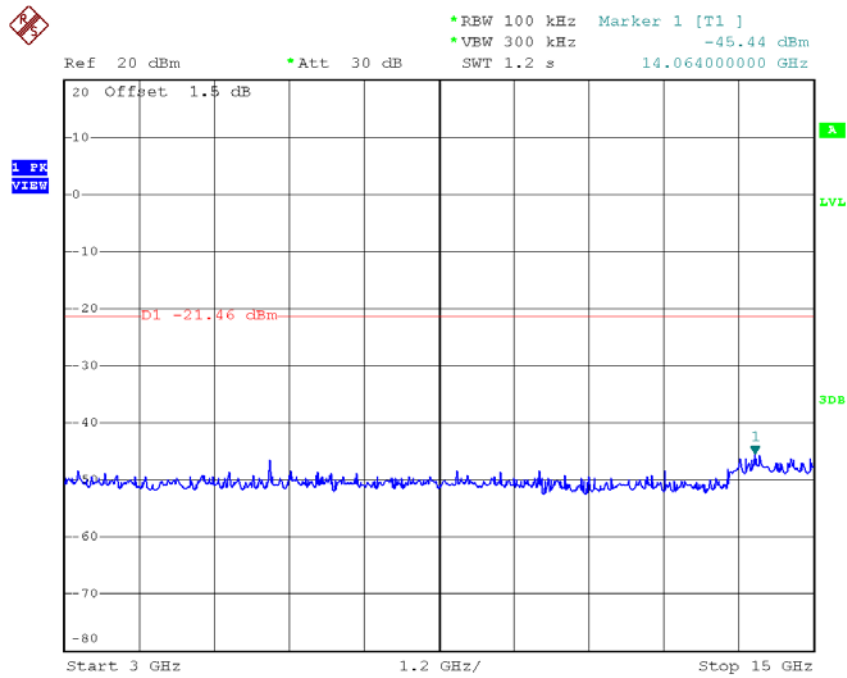


Date: 7.MAY.2018 11:51:46

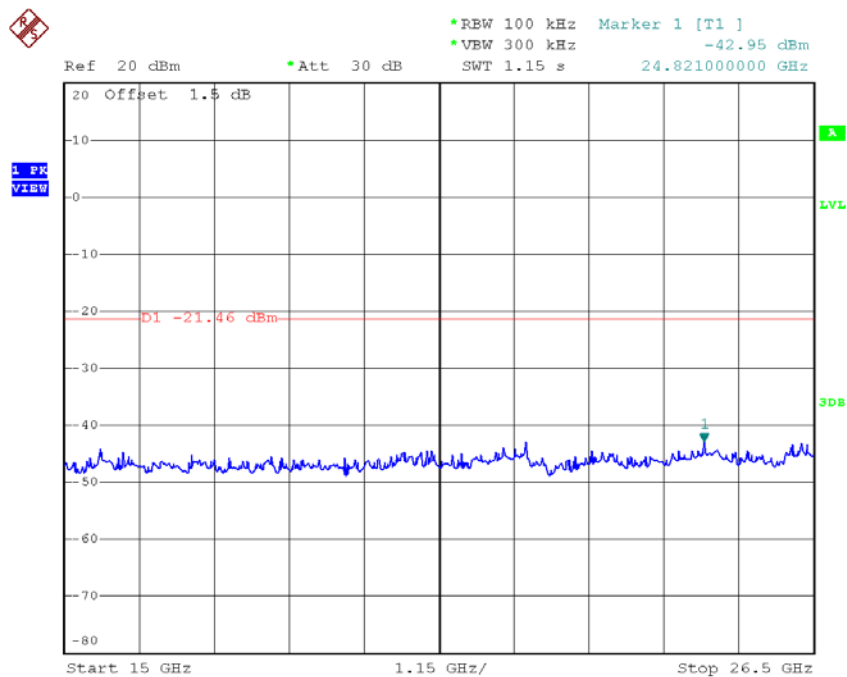
TX B mode CH06 (10 Harmonic of the frequency)



Date: 7.MAY.2018 11:53:28

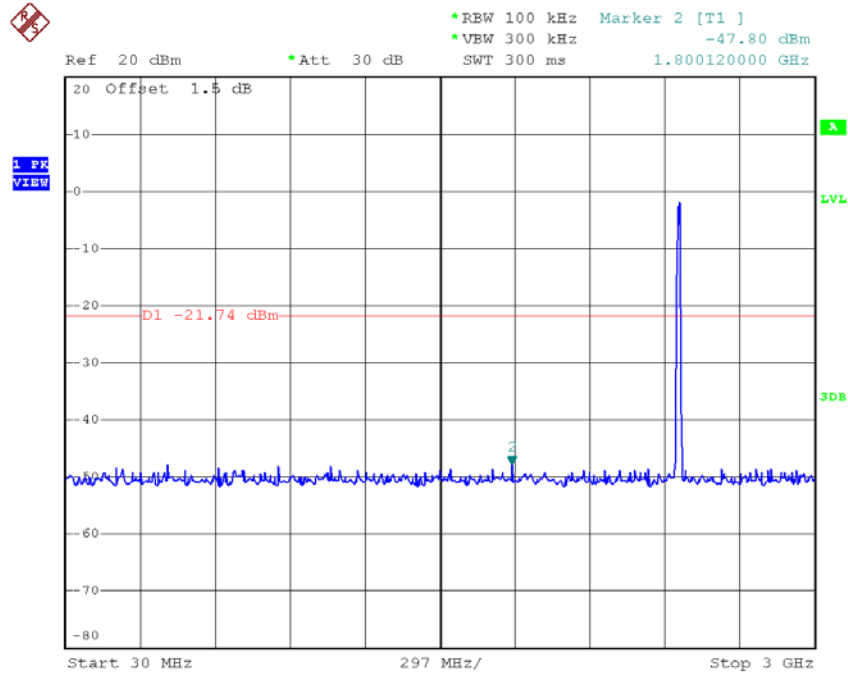


Date: 7.MAY.2018 11:53:36

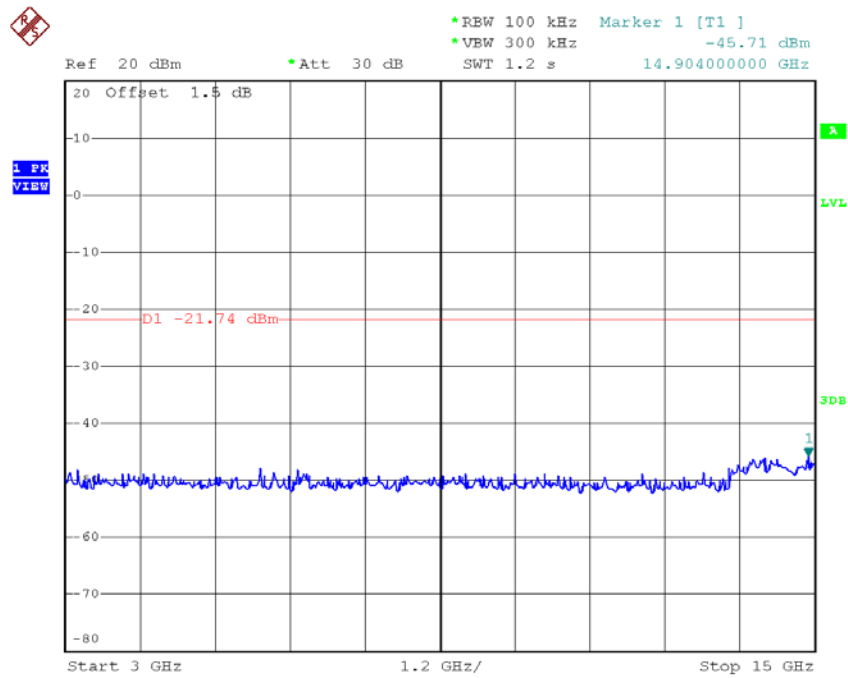


Date: 7.MAY.2018 11:53:44

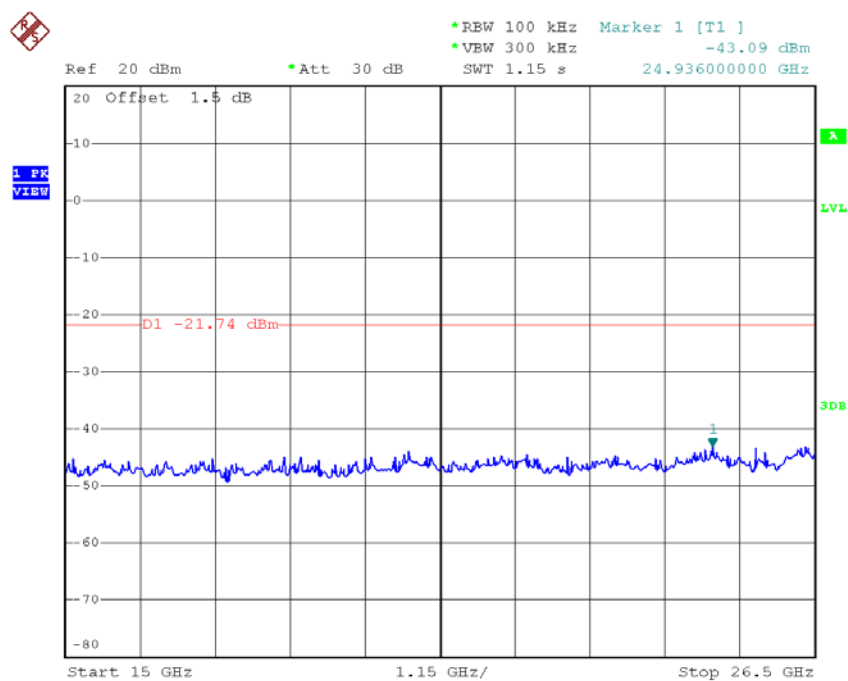
TX B mode CH11 (10 Harmonic of the frequency)



Date: 7.MAY.2018 11:55:03



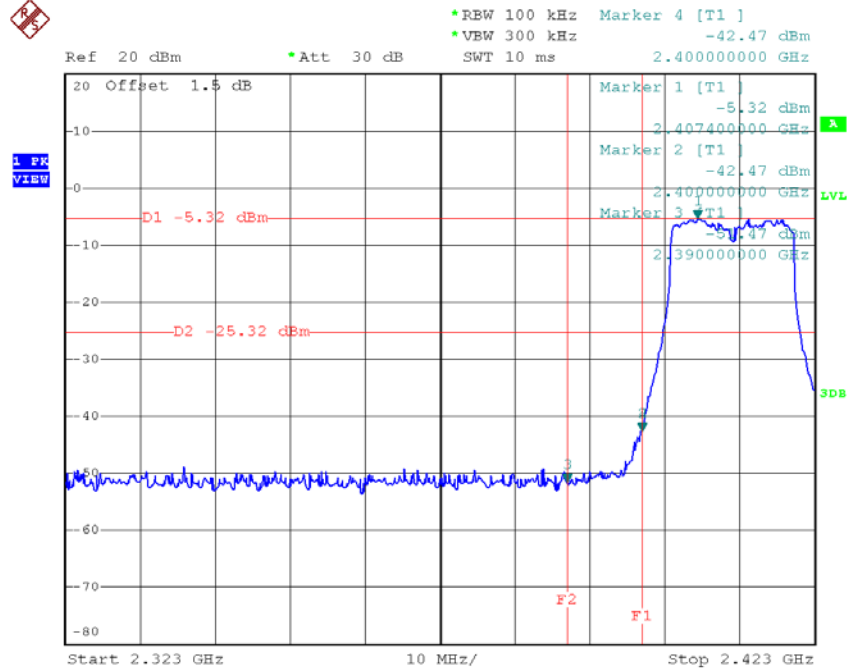
Date: 7.MAY.2018 11:55:11



Date: 7.MAY.2018 11:55:20

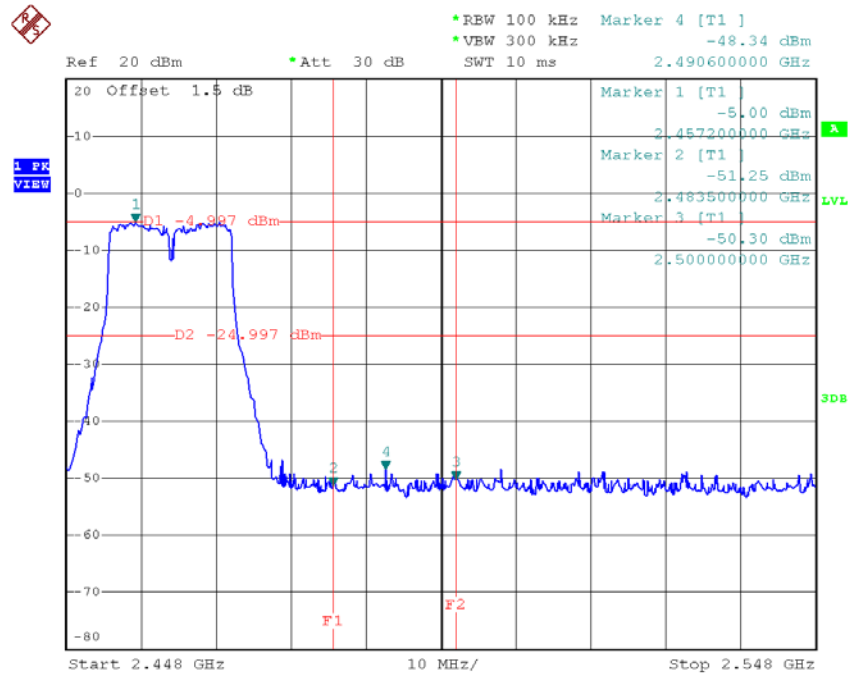
Test Mode : TX G Mode

TX G mode CH01



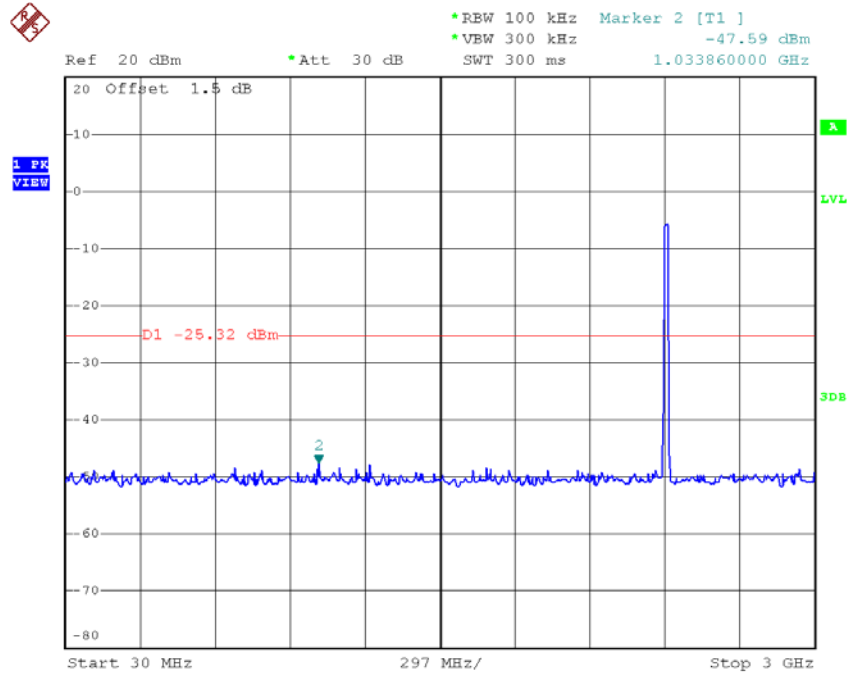
Date: 7.MAY.2018 11:56:41

TX G mode CH11

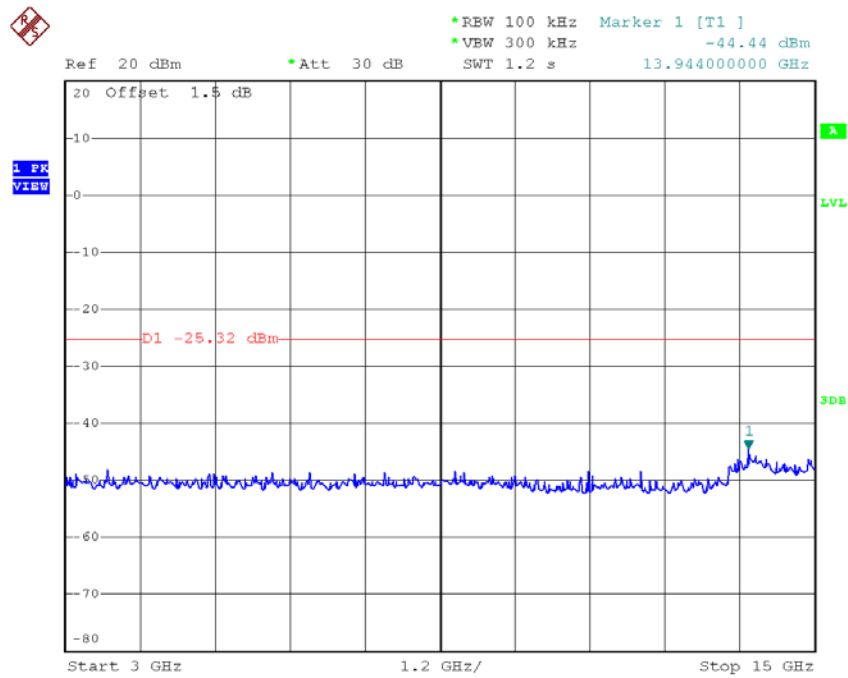


Date: 7.MAY.2018 13:59:18

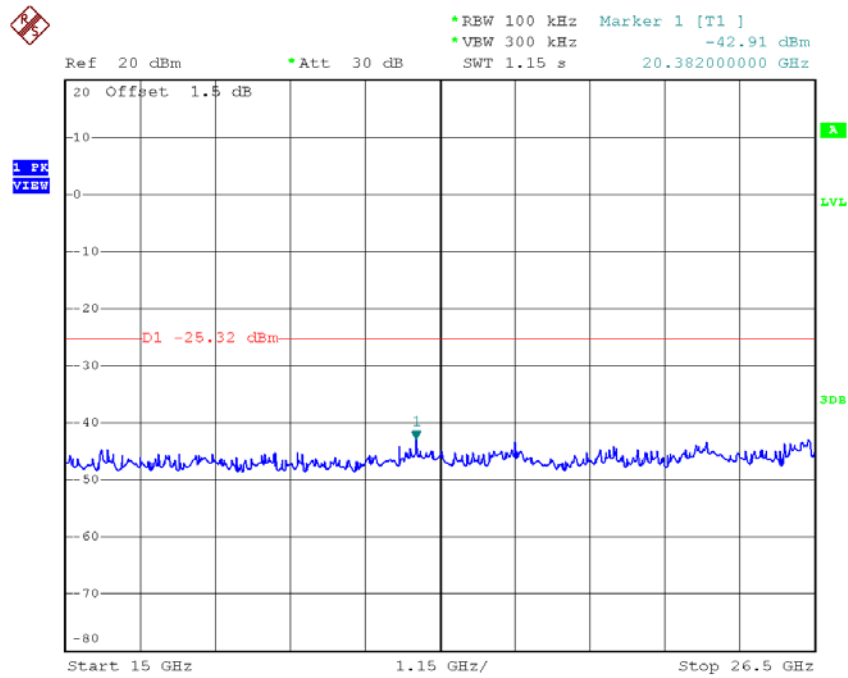
TX G mode CH01 (10 Harmonic of the frequency)



Date: 7.MAY.2018 11:56:55

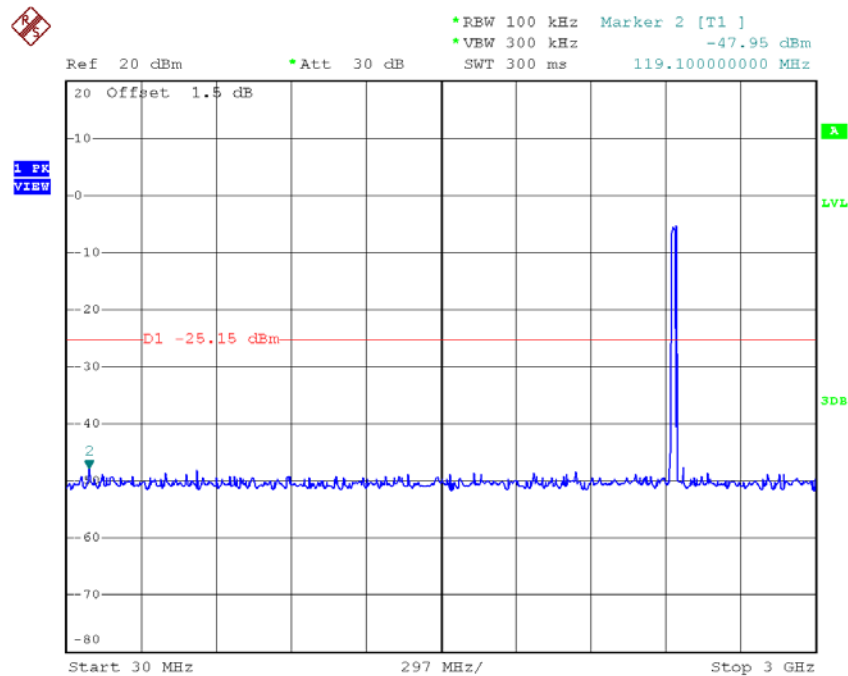


Date: 7.MAY.2018 11:57:03

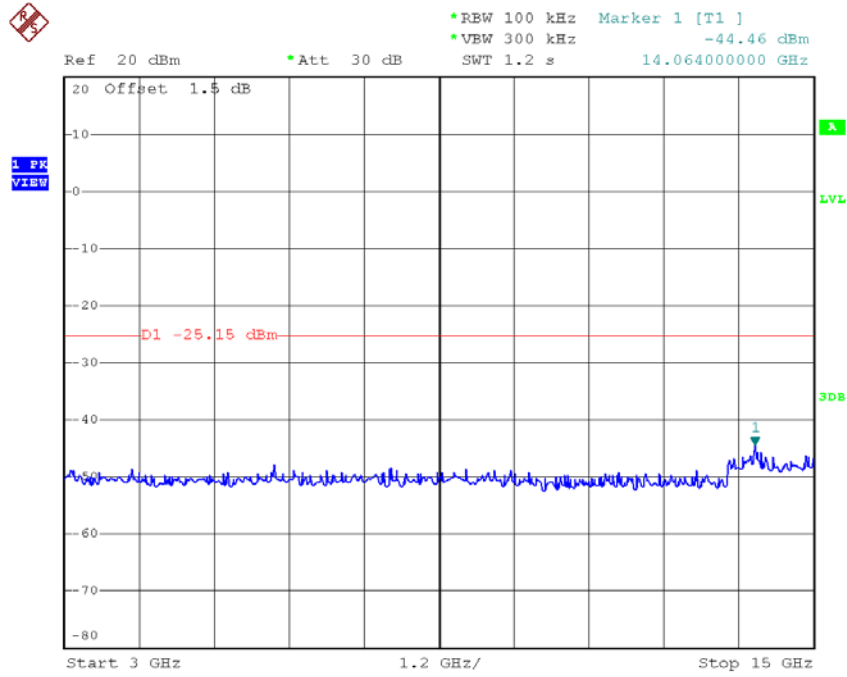


Date: 7.MAY.2018 11:57:12

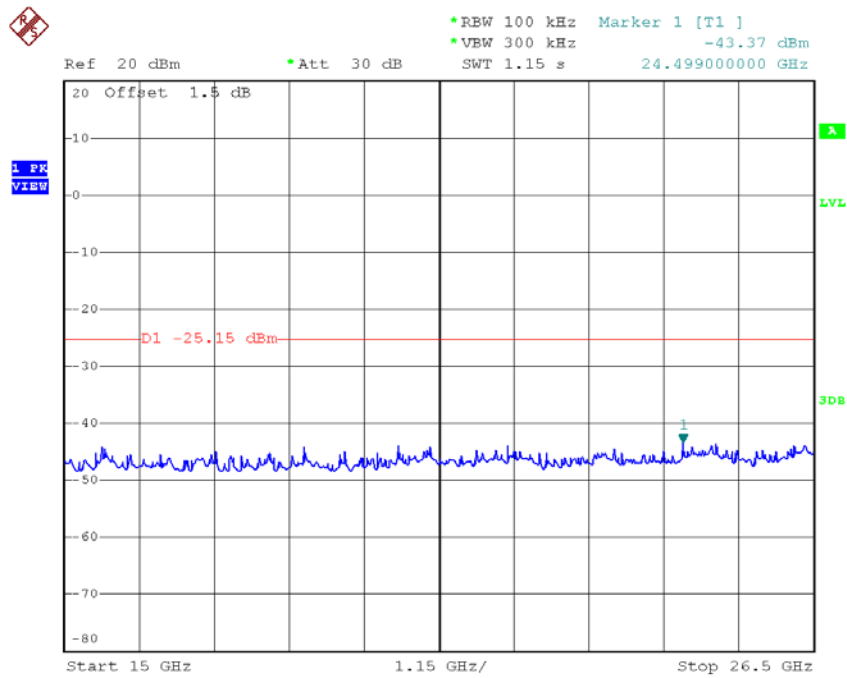
TX G mode CH06 (10 Harmonic of the frequency)



Date: 7.MAY.2018 13:58:10

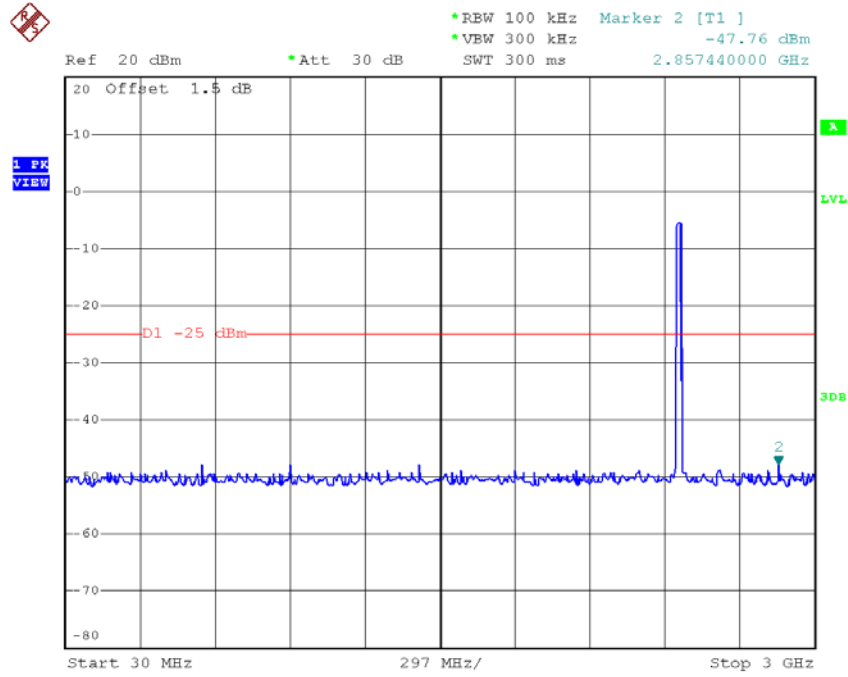


Date: 7.MAY.2018 13:58:19

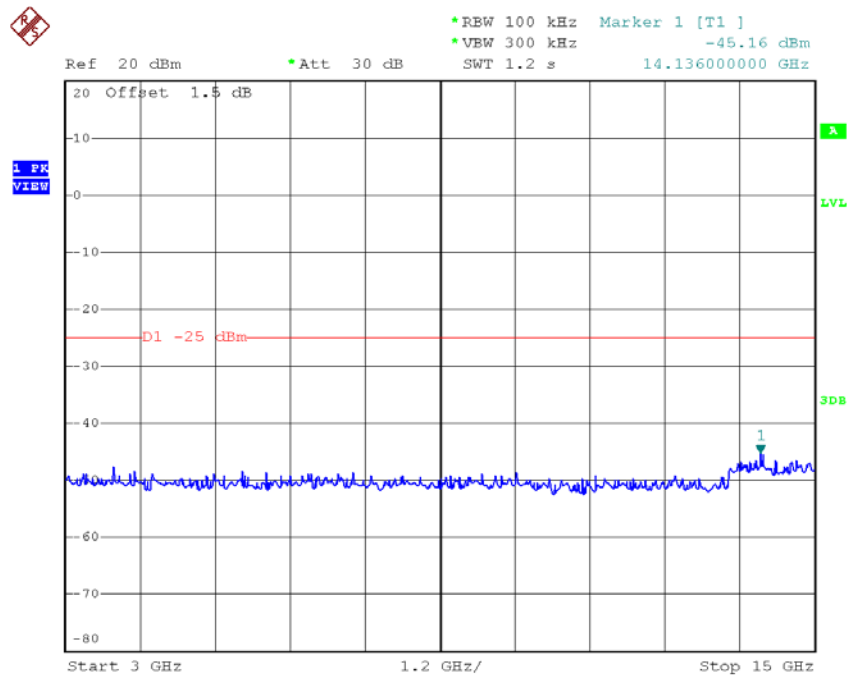


Date: 7.MAY.2018 13:58:27

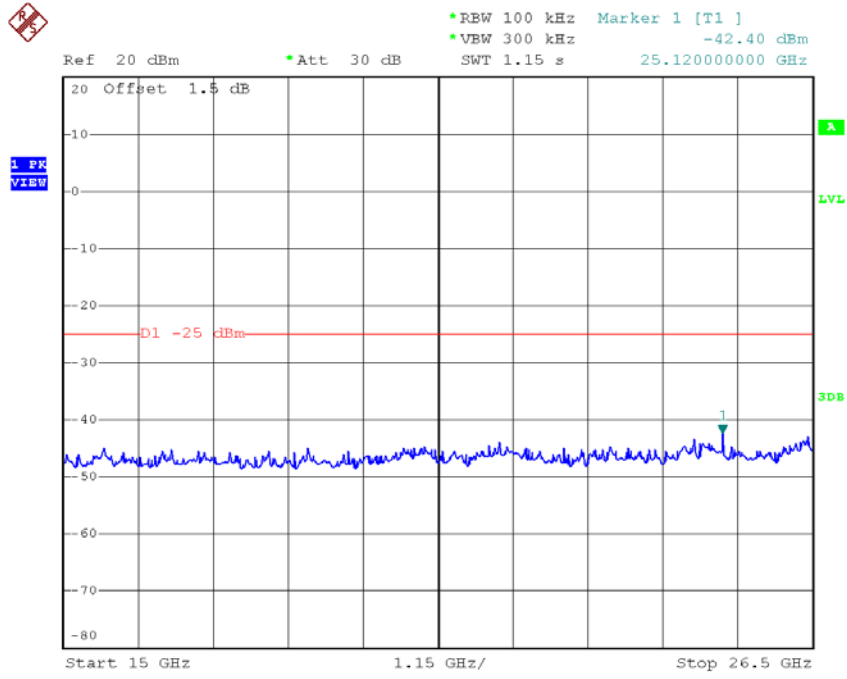
TX G mode CH11 (10 Harmonic of the frequency)



Date: 7.MAY.2018 13:59:32



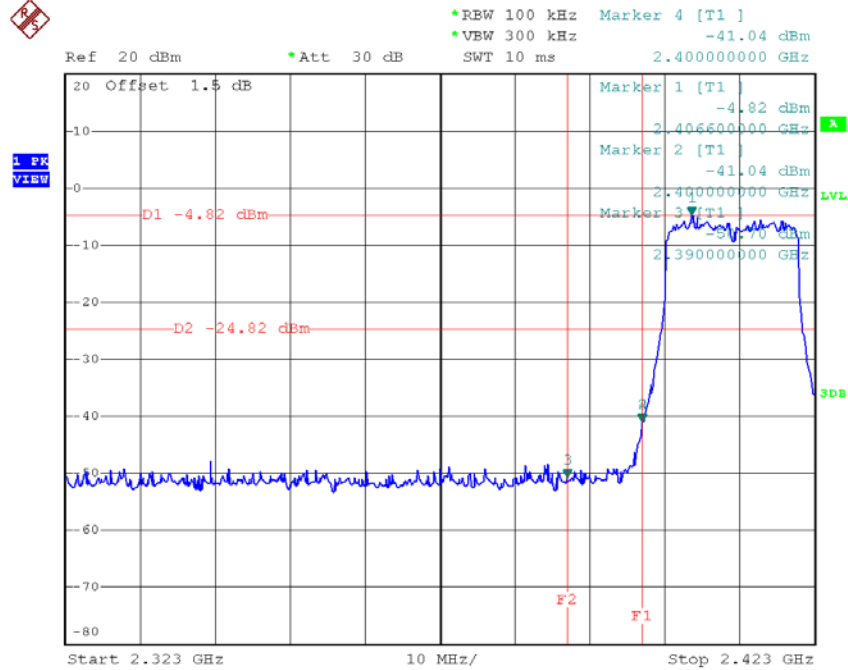
Date: 7.MAY.2018 13:59:40



Date: 7.MAY.2018 13:59:49

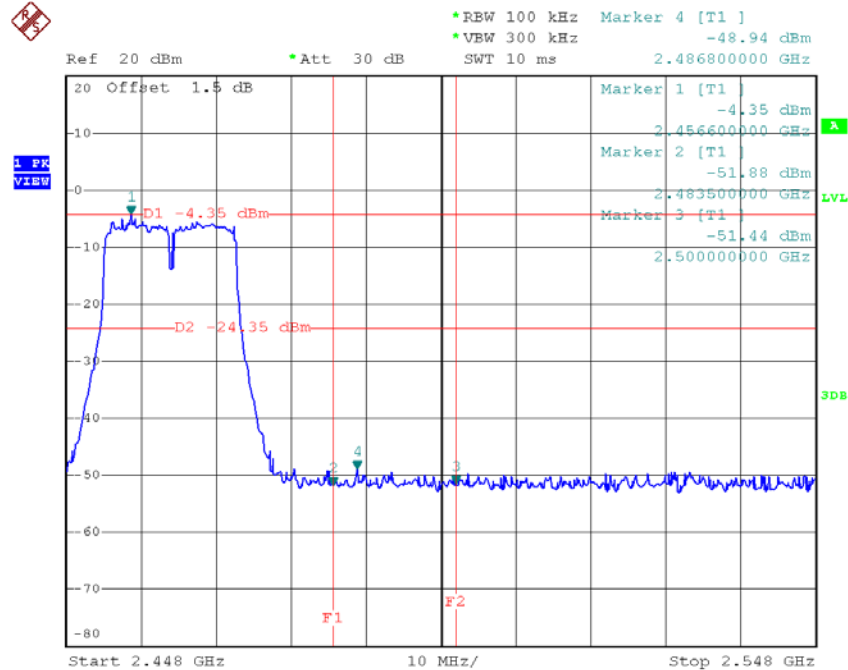
Test Mode : TX N-20M Mode

TX HT20 mode CH01



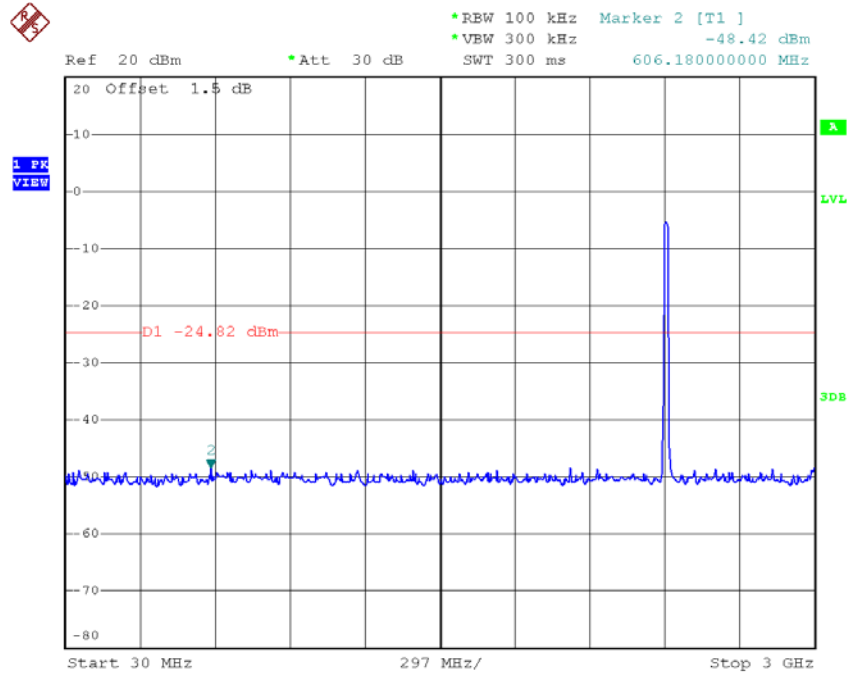
Date: 7.MAY.2018 14:00:45

TX HT20 mode CH11

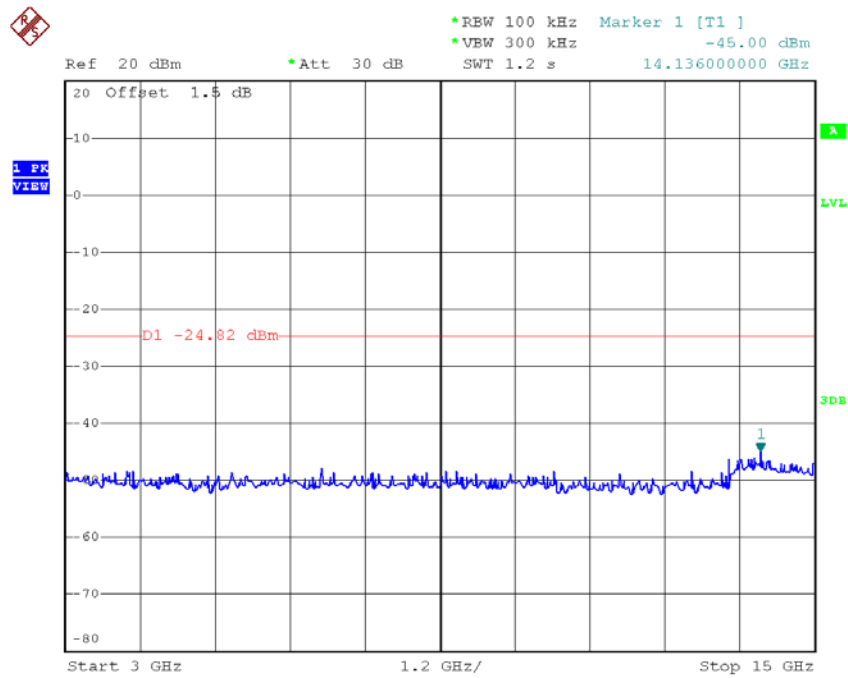


Date: 7.MAY.2018 14:03:30

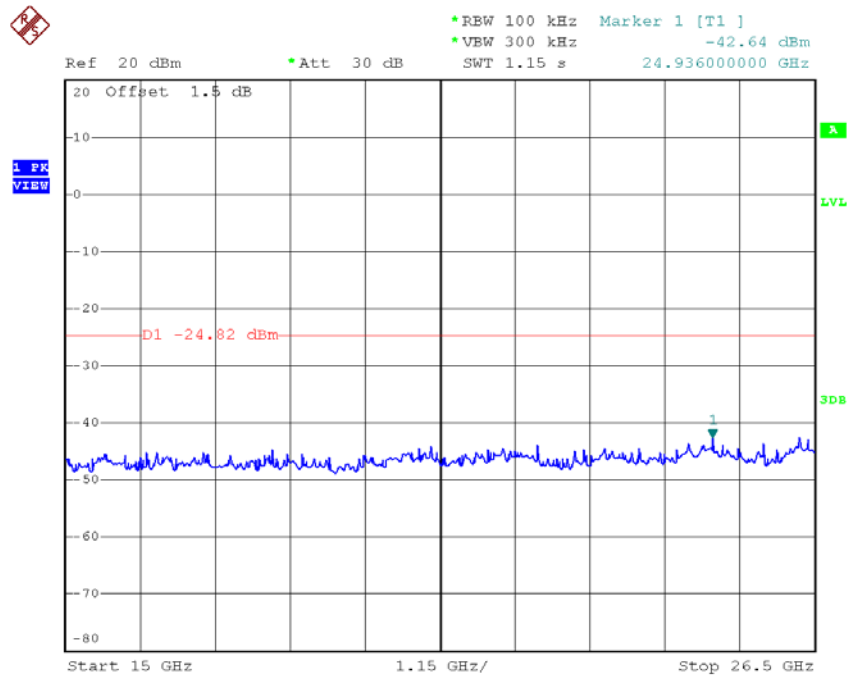
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 7.MAY.2018 14:00:59

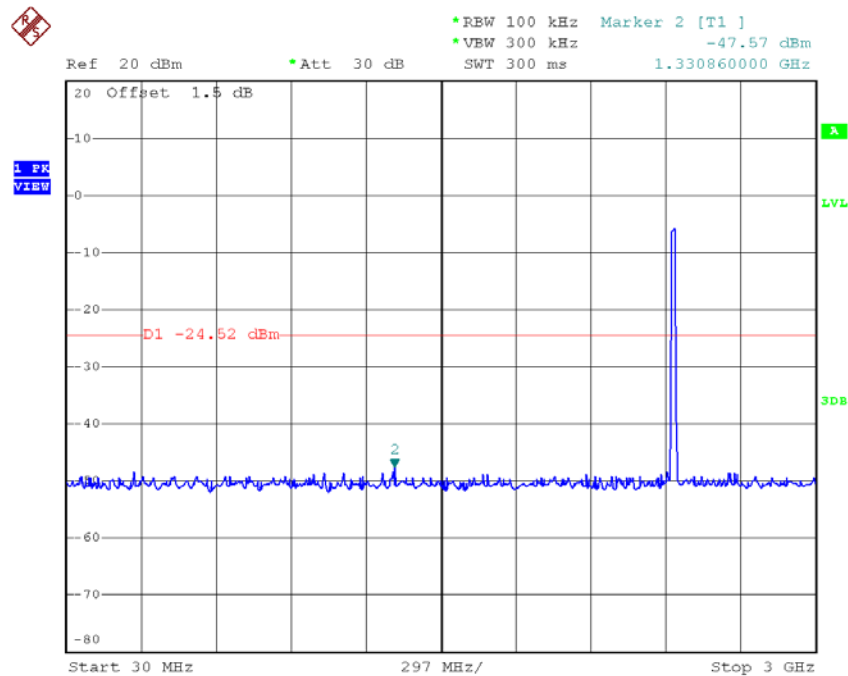


Date: 7.MAY.2018 14:01:07

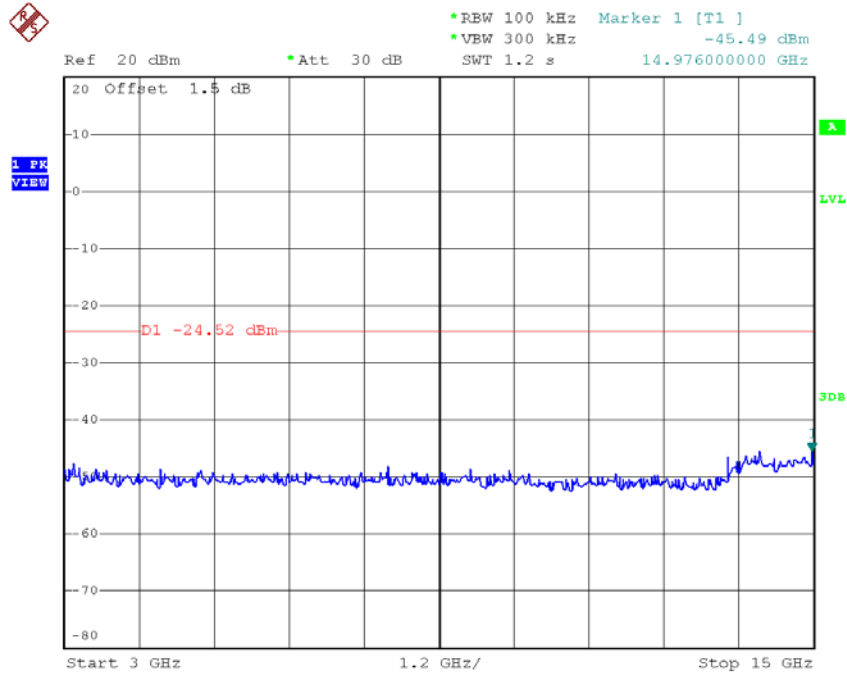


Date: 7.MAY.2018 14:01:16

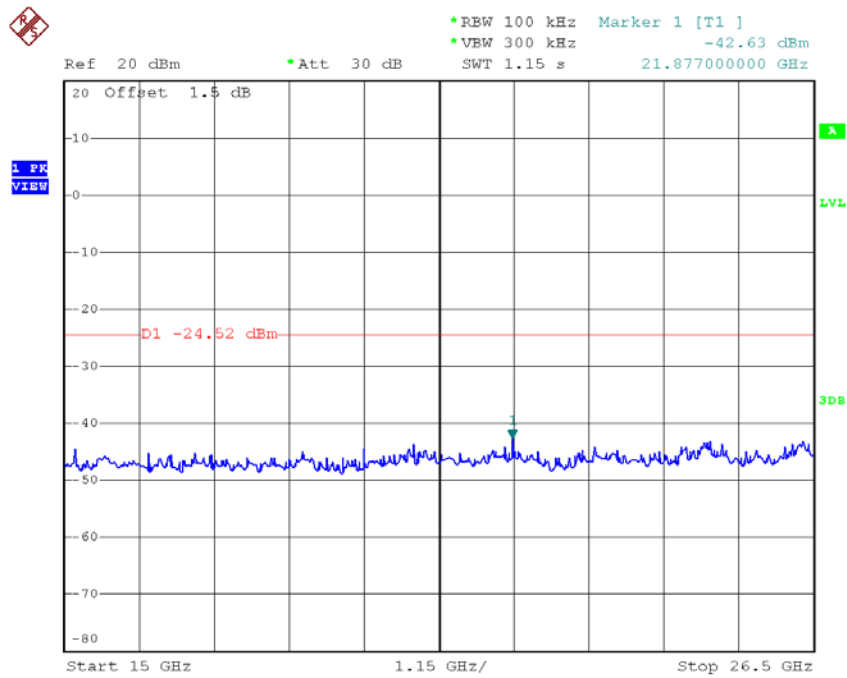
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 7.MAY.2018 14:02:24

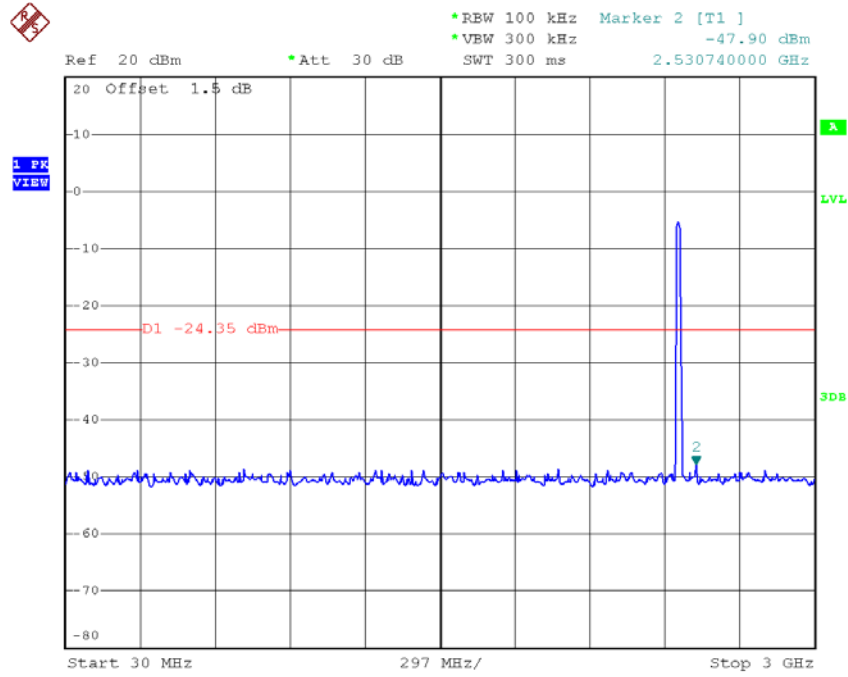


Date: 7.MAY.2018 14:02:33

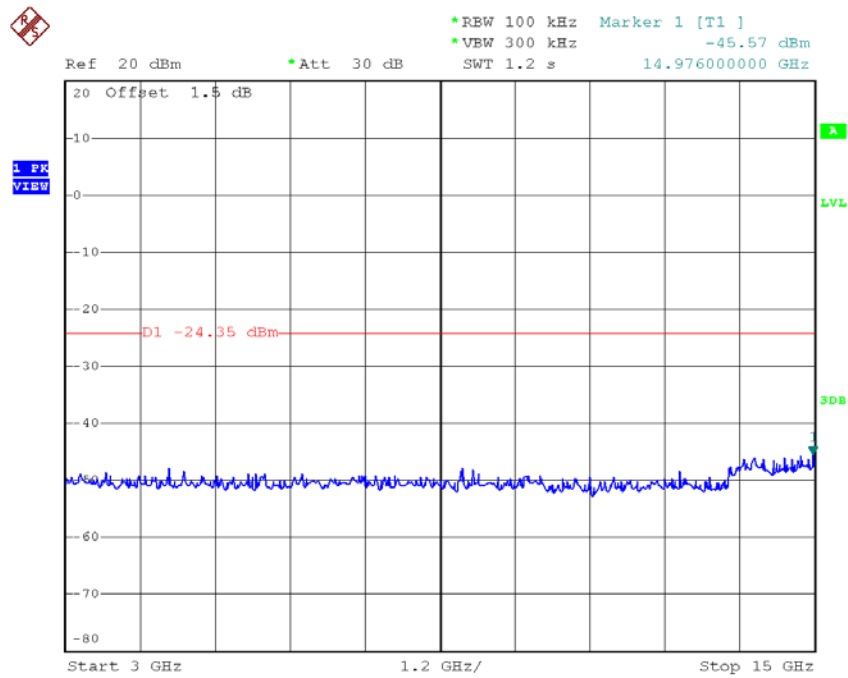


Date: 7.MAY.2018 14:02:41

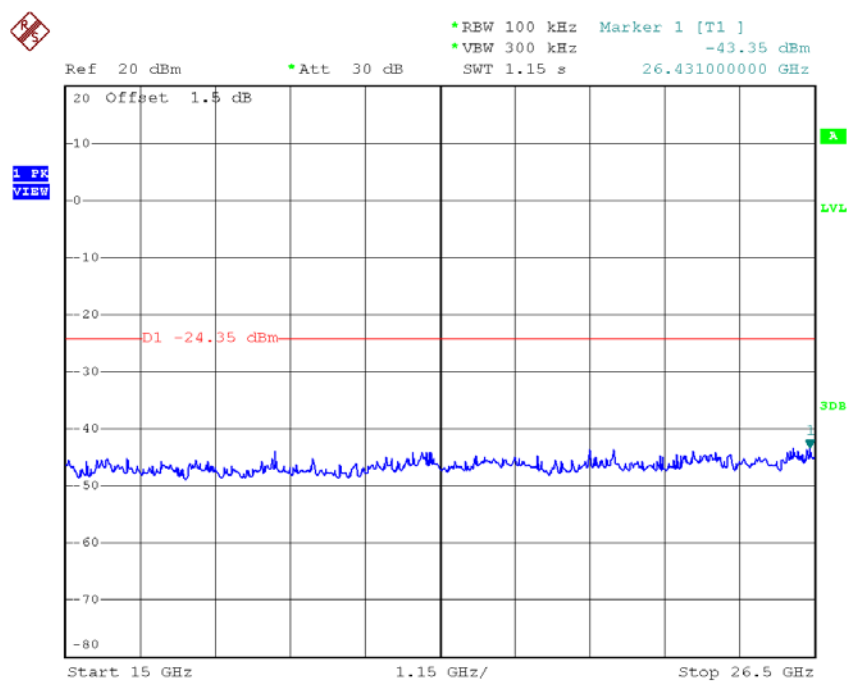
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 7.MAY.2018 14:03:44



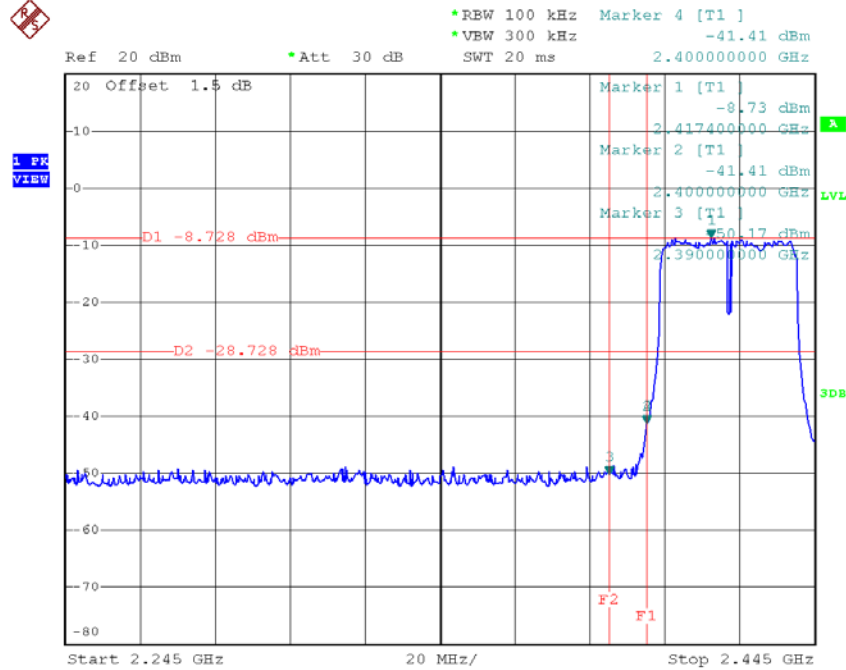
Date: 7.MAY.2018 14:03:53



Date: 7.MAY.2018 14:04:01

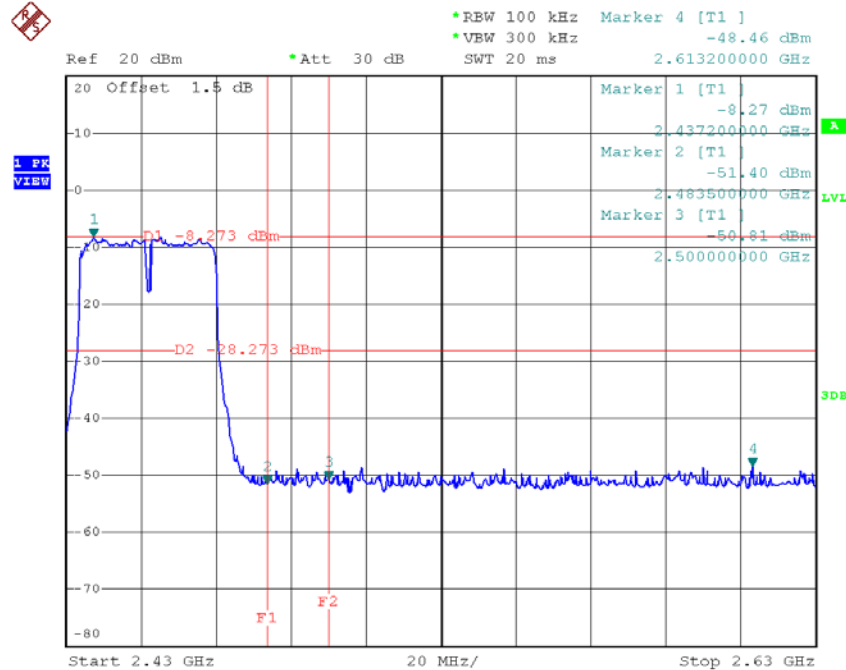
Test Mode : TX N-40M Mode

TX HT40 mode CH03



Date: 7.MAY.2018 14:04:58

TX HT40 mode CH09



Date: 7.MAY.2018 14:07:43