

FCC Radio Test Report

FCC ID: RWO-RZ0902386

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

Project No. : 1803C063
Equipment : Notebook
Test Model : RZ09-02386
Series Model : RZ09-02385
Applicant : Razer Inc.
Address : 201 3rd Street, Suite 900, San Francisco, CA
94103, USA

Date of Receipt : Mar. 08, 2018
Date of Test : Mar. 12, 2018 ~ Apr. 09, 2018
Issued Date : May 11, 2018
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1803C063	Original Issue.	May 11, 2018

1. CERTIFICATION

Equipment : Notebook
Brand Name : RAZER
Test Model : RZ09-02386
Series Model : RZ09-02385
Applicant : Razer Inc.
Manufacturer : Razer Inc.
Address : 201 3rd Street, Suite 900, San Francisco, CA 94103, USA
Factory : BYD Precision Manufacture Co., Ltd.
Address : No.3001, Baohe Road, Baolong industrial, Longgang Street , Longgang Zone, Shenzhen
Date of Test : Mar. 12, 2018 ~ Apr. 09, 2018
Test Sample : Engineering Sample No. for Conducted: D180301983 & Radiation: D180302153
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-3-1803C063) 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).

Test results included in this report is only for the WIFI 2.4G part.

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

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	Notebook	
Brand Name	RAZER	
Test Model	RZ09-02386	
Series Model	RZ09-02385	
Model Difference	Please refer to note 2.	
Hardware Version	C1_MB	
Firmware Version	Windows 10	
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: 23.66dBm 802.11g: 25.93dBm 802.11n(20MHz): 25.98dBm 802.11n(40MHz): 24.78dBm
Power Source	DC voltage supplied from AC/DC adapter.	
Power Rating	Please refer to note 2.	

Note:

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

Model	RZ09-02386	RZ09-02385
Graphics Card	N17E-G2 MAX-Q	N17E-G1 MAX-Q
Adapter	RC30-024801	#1 RC30-024801 #2 RC30-0238
Power Rating	I/P:AC100-240V, 3.6V 50/60Hz O/P:DC 19.5V, 11.8A	#1 I/P: AC100-240V, 3.6V 50/60Hz O/P: DC 19.5V, 11.8A #2 I/P: AC 100-240V, 2.5A 50/60Hz O/P: DC 19.5V/10.26A

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	PN	Antenna Type	Connector	Gain (dBi)
1	Molex	2065720001	Internal	N/A	3.13
2	Molex	2065720001	Internal	N/A	3.06

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, so Directional gain = $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$ dBi, that is Directional gain = $10\log[(10^{3.13/20} + 10^{3.06/20})^2 / 2]$ dBi = 6.11. So, the out power limit is $30 - 6.11 + 6 = 29.89$, the power density limit is $8 - 6.11 + 6 = 7.89$.

4. The worst case as follow:

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

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:

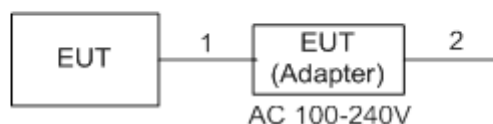
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) 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	DRTU		
Frequency (MHz)	2412	2437	2462
802.11b	16	19	17.5
802.11g	16.5	19	17.5
802.11n (20MHz)	16	19	17
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	13.5	17	14.5

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	2m	DC Cable
2	NO	NO	1m	AC 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

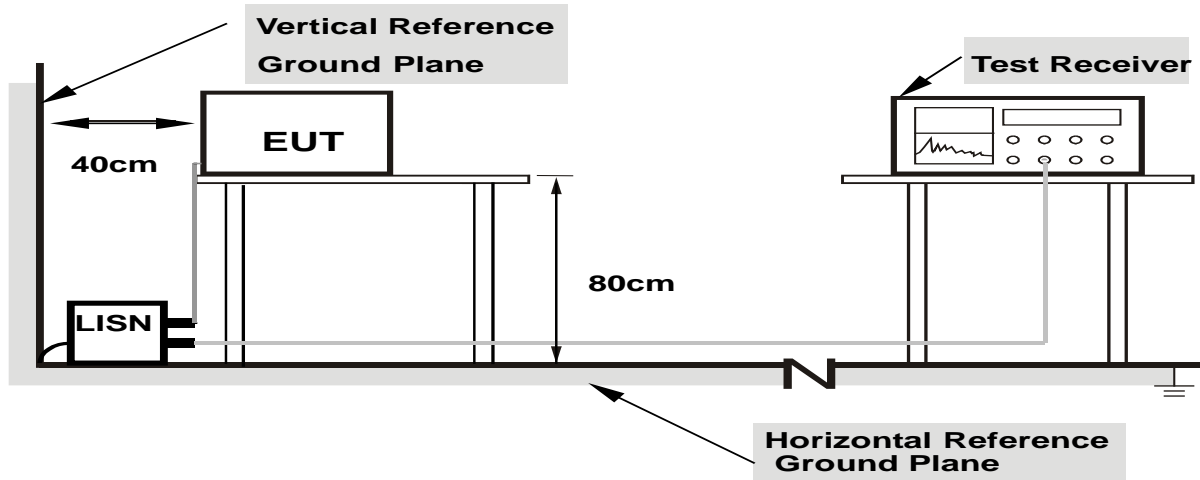
4.1.2 TEST PROCEDURE

- 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 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

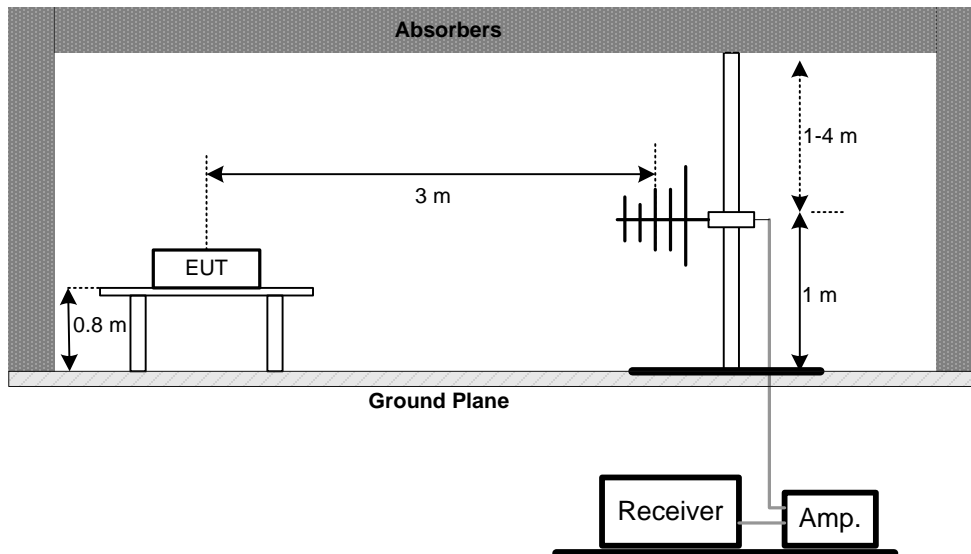
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

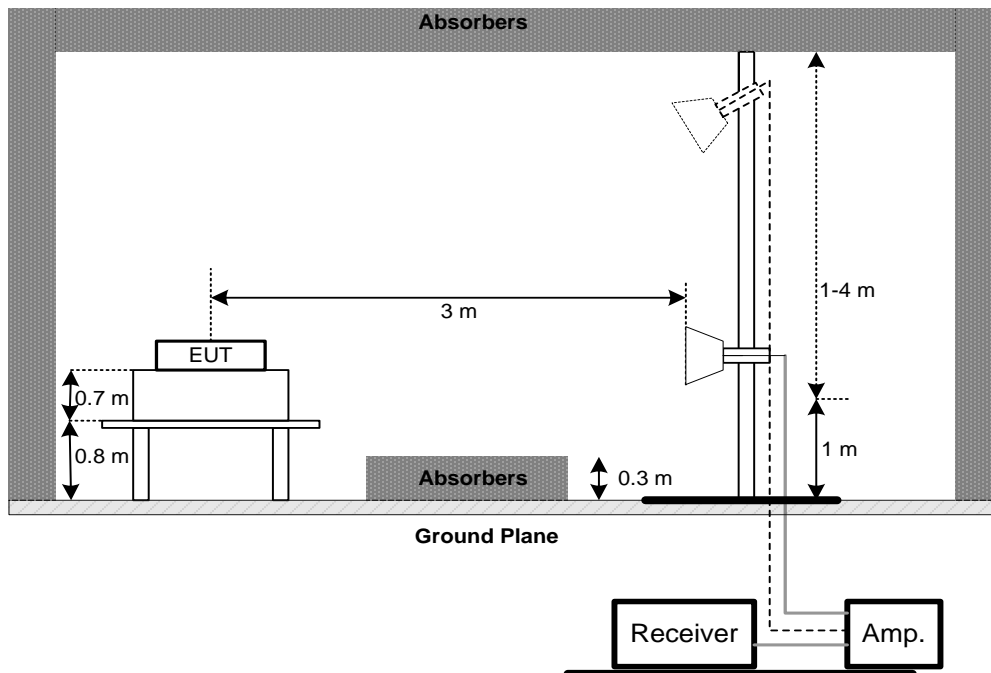
No deviation

4.2.4 TEST SETUP

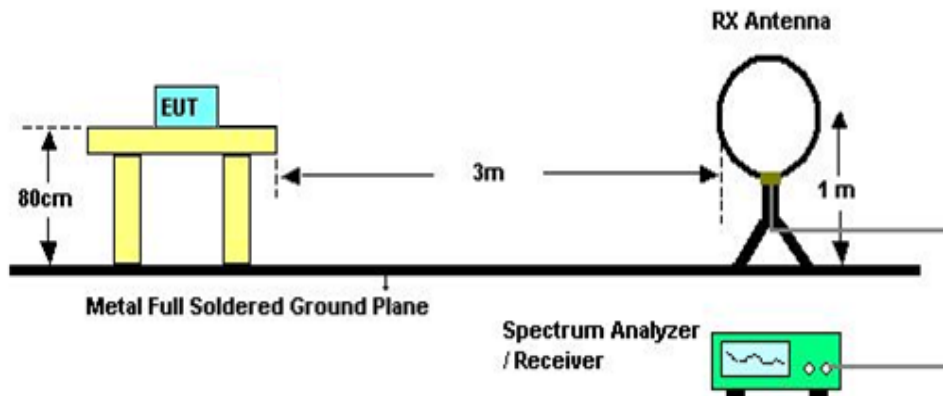
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: AC 120V/60Hz

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

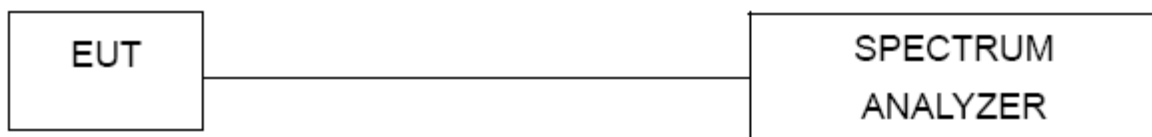
5.1.1 TEST PROCEDURE

- 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: AC 120V/60Hz

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

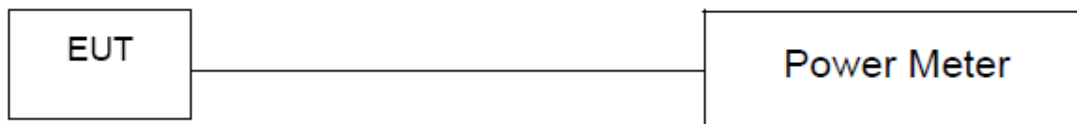
6.1.1 TEST PROCEDURE

- 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 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 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: AC 120V/60Hz

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: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Appendix H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
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		RG223	12m	Oct. 19, 2018

Radiated Emission 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 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	P-series Power meter	Agilent	N1911A	MY45100473	Aug. 20, 2018
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Aug. 20, 2018

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

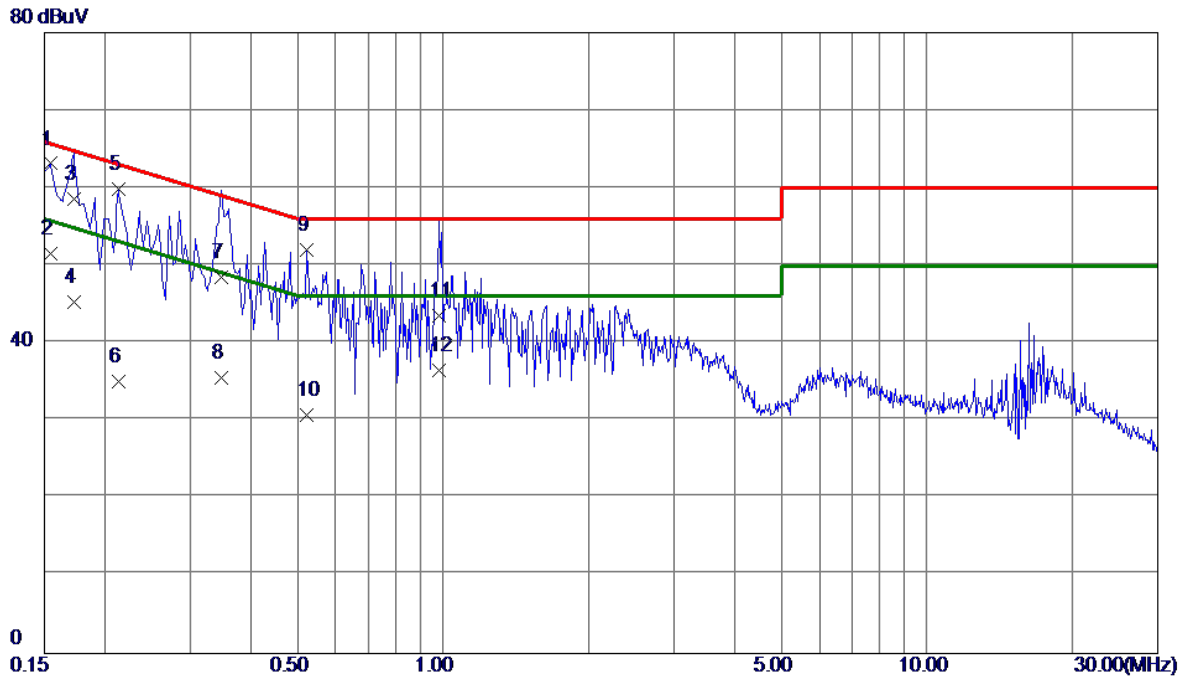
Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

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

APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link_Adapter: RC30-024801

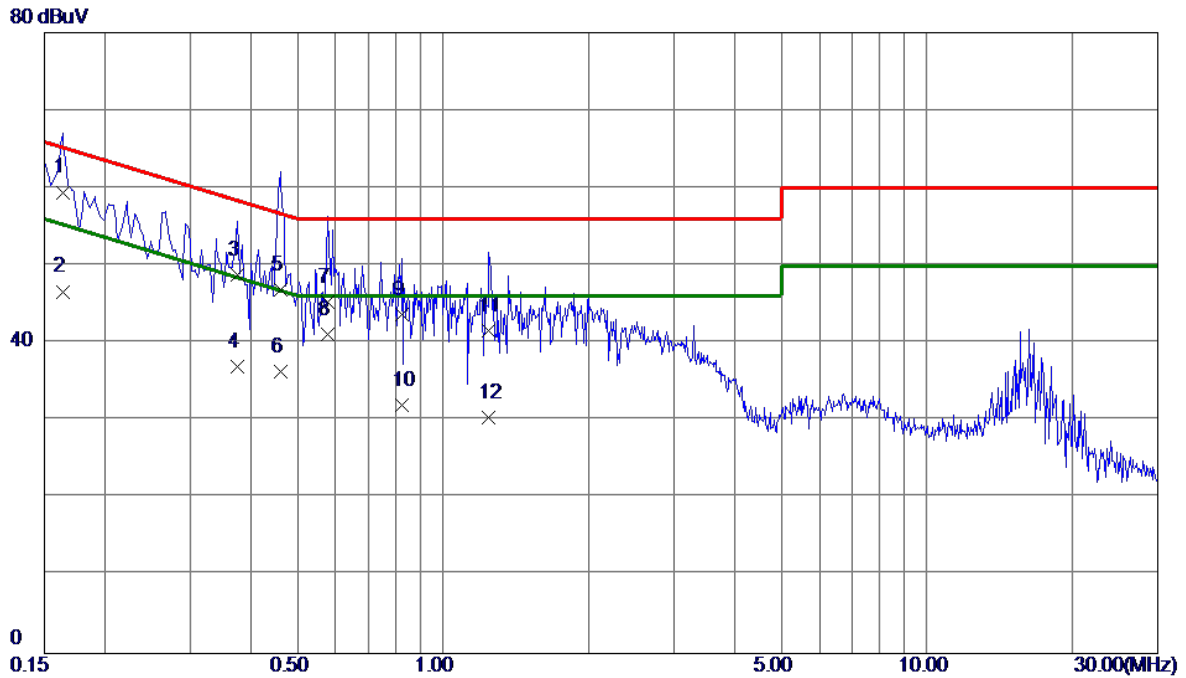
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	53.37	9.75	63.12	65.75	-2.63	QP	
2	0.1545	41.70	9.75	51.45	55.75	-4.30	AVG	
3	0.1725	48.80	9.74	58.54	64.84	-6.30	QP	
4	0.1725	35.60	9.74	45.34	54.84	-9.50	AVG	
5	0.2130	50.07	9.72	59.79	63.09	-3.30	QP	
6	0.2130	25.30	9.72	35.02	53.09	-18.07	AVG	
7	0.3480	38.80	9.75	48.55	59.01	-10.46	QP	
8	0.3480	25.80	9.75	35.55	49.01	-13.46	AVG	
9	0.5235	42.20	9.76	51.96	56.00	-4.04	QP	
10	0.5235	20.90	9.76	30.66	46.00	-15.34	AVG	
11	0.9825	33.80	9.77	43.57	56.00	-12.43	QP	
12	0.9825	26.70	9.77	36.47	46.00	-9.53	AVG	

Test Mode : Normal Link_Adapter: RC30-024801

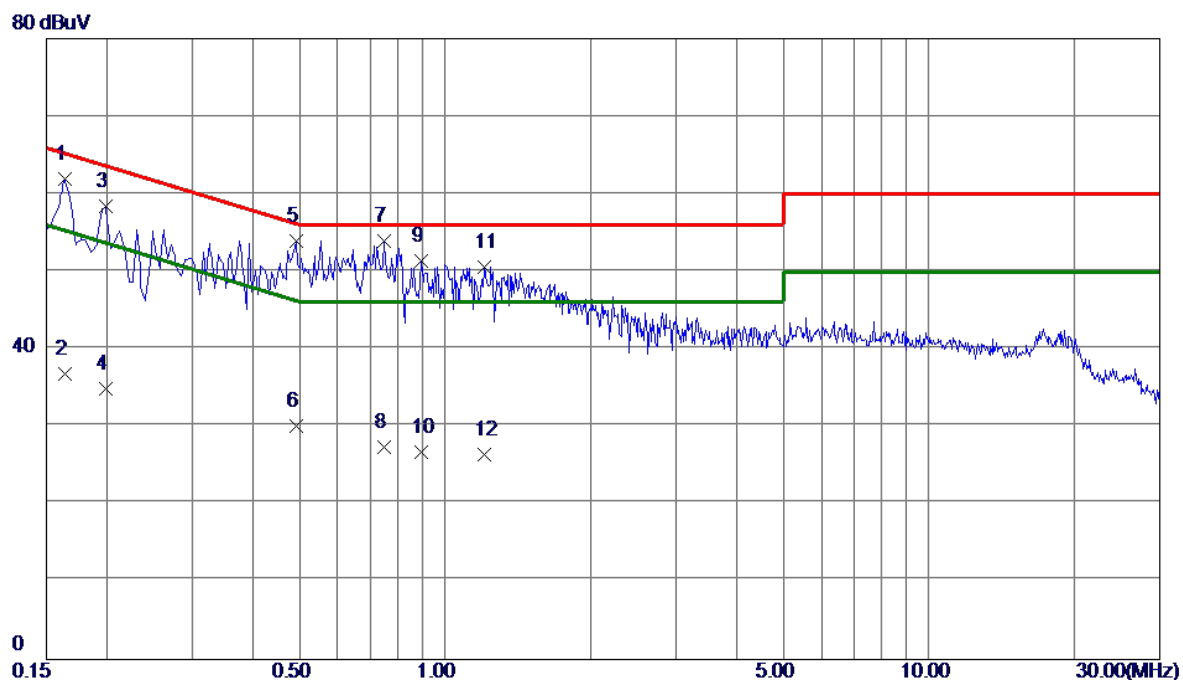
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	49.80	9.64	59.44	65.28	-5.84	QP	
2	0.1635	37.00	9.64	46.64	55.28	-8.64	AVG	
3	0.3750	39.10	9.65	48.75	58.39	-9.64	QP	
4	0.3750	27.30	9.65	36.95	48.39	-11.44	AVG	
5	0.4605	37.30	9.65	46.95	56.68	-9.73	QP	
6	0.4605	26.70	9.65	36.35	46.68	-10.33	AVG	
7	0.5775	35.60	9.66	45.26	56.00	-10.74	QP	
8 *	0.5775	31.40	9.66	41.06	46.00	-4.94	AVG	
9	0.8205	34.10	9.66	43.76	56.00	-12.24	QP	
10	0.8205	22.40	9.66	32.06	46.00	-13.94	AVG	
11	1.2435	31.90	9.68	41.58	56.00	-14.42	QP	
12	1.2435	20.70	9.68	30.38	46.00	-15.62	AVG	

Test Mode : Normal Link_Adapter: RC30-0238

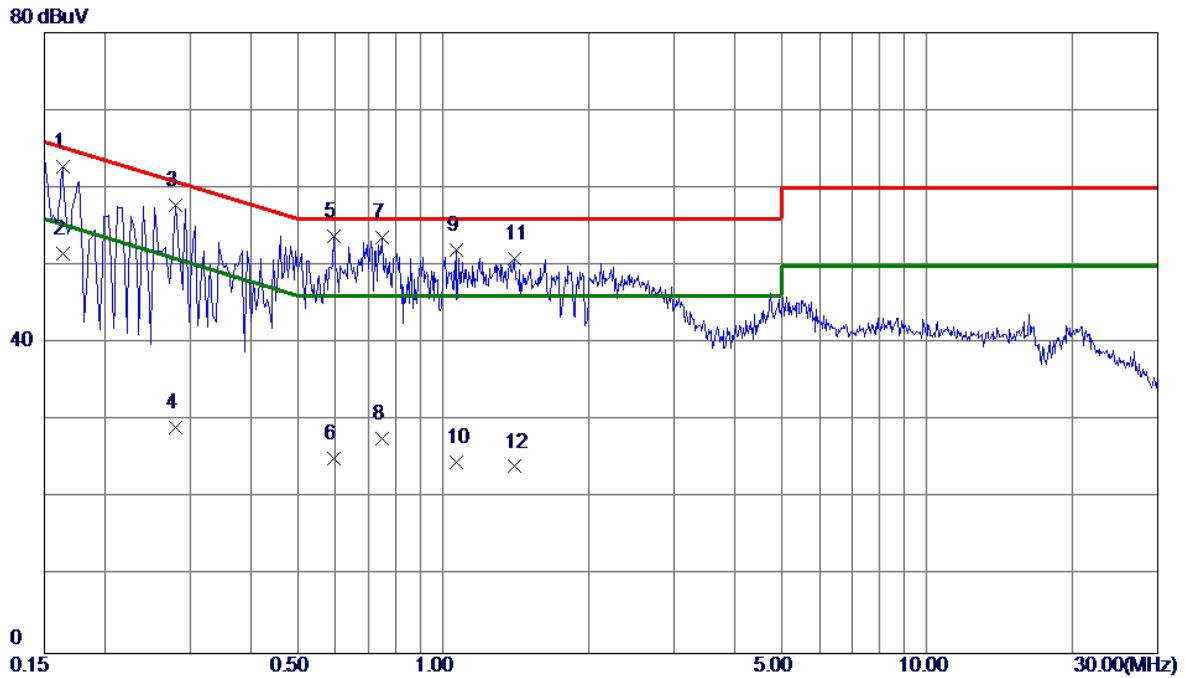
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	52.14	9.78	61.92	65.28	-3.36	Peak	
2	0.1635	26.99	9.78	36.77	55.28	-18.51	AVG	
3	0.1995	48.60	9.76	58.36	63.63	-5.27	Peak	
4	0.1995	25.10	9.76	34.86	53.63	-18.77	AVG	
5	0.4920	44.23	9.72	53.95	56.13	-2.18	Peak	
6	0.4920	20.40	9.72	30.12	46.13	-16.01	AVG	
7 *	0.7483	44.11	9.81	53.92	56.00	-2.08	Peak	
8	0.7483	17.51	9.81	27.32	46.00	-18.68	AVG	
9	0.8924	41.54	9.85	51.39	56.00	-4.61	Peak	
10	0.8924	16.90	9.85	26.75	46.00	-19.25	AVG	
11	1.2074	40.72	9.87	50.59	56.00	-5.41	Peak	
12	1.2074	16.60	9.87	26.47	46.00	-19.53	AVG	

Test Mode : Normal Link_Adapter: RC30-0238

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	53.06	9.67	62.73	65.28	-2.55	Peak	
2	0.1635	41.80	9.67	51.47	55.28	-3.81	AVG	
3	0.2805	48.05	9.65	57.70	60.80	-3.10	Peak	
4	0.2805	19.40	9.65	29.05	50.80	-21.75	AVG	
5 *	0.5954	44.12	9.66	53.78	56.00	-2.22	Peak	
6	0.5954	15.50	9.66	25.16	46.00	-20.84	AVG	
7	0.7481	43.83	9.71	53.54	56.00	-2.46	Peak	
8	0.7483	17.91	9.71	27.62	46.00	-18.38	AVG	
9	1.0634	42.28	9.75	52.03	56.00	-3.97	Peak	
10	1.0634	14.90	9.75	24.65	46.00	-21.35	AVG	
11	1.4010	41.09	9.77	50.86	56.00	-5.14	Peak	
12	1.4010	14.31	9.77	24.08	46.00	-21.92	AVG	

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

Test Mode:	TX B MODE CHANNEL 01_Adapter: RC30-024801
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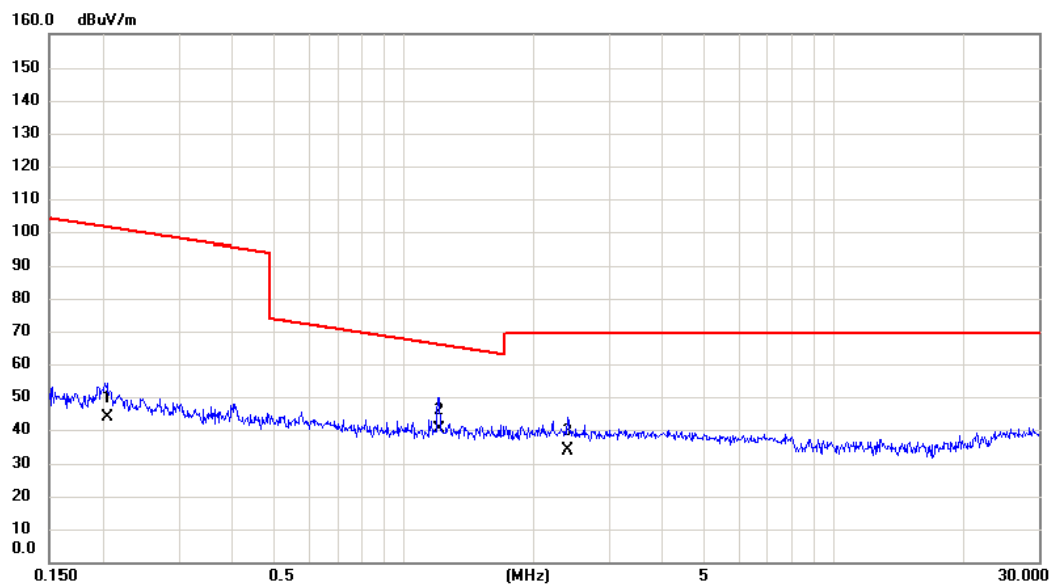
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0128	51.86	20.54	72.40	125.46	-53.06	AVG	
2		0.0323	54.23	19.23	73.46	117.42	-43.96	AVG	
3	*	0.0368	60.28	19.10	79.38	116.29	-36.91	AVG	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-024801

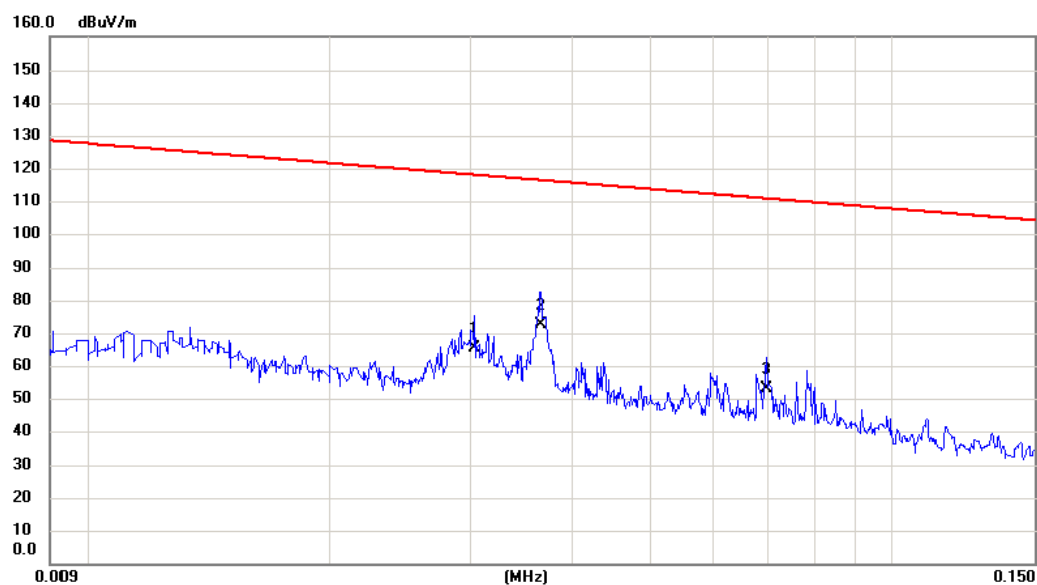
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2040	27.26	16.74	44.00	101.41	-57.41	AVG	
2	*	1.2098	24.33	15.72	40.05	65.95	-25.90	QP	
3		2.3962	18.62	15.28	33.90	69.54	-35.64	QP	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-024801

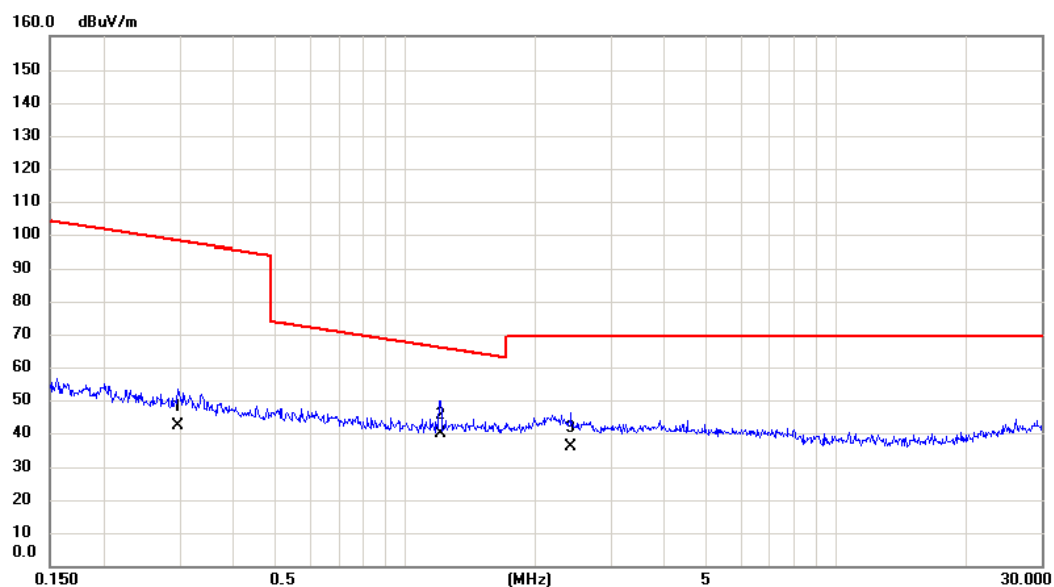
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0303	45.96	19.29	65.25	117.98	-52.73	AVG	
2	*	0.0366	53.32	19.10	72.42	116.34	-43.92	AVG	
3		0.0697	34.59	18.31	52.90	110.74	-57.84	AVG	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-024801

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		0.2971	25.69	16.62	42.31	98.15	-55.84	AVG	
2	*	1.2098	24.19	15.81	40.00	65.95	-25.95	QP	
3		2.4218	20.36	15.39	35.75	69.54	-33.79	QP	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

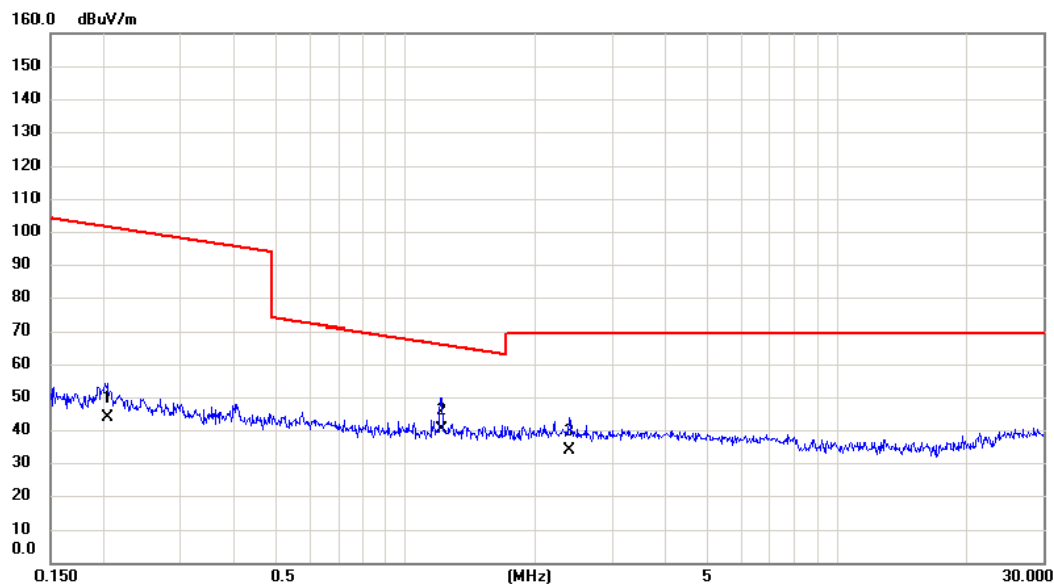
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0128	51.86	20.54	72.40	125.46	-53.06	AVG	
2		0.0323	54.23	19.23	73.46	117.42	-43.96	AVG	
3	*	0.0368	60.28	19.10	79.38	116.29	-36.91	AVG	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

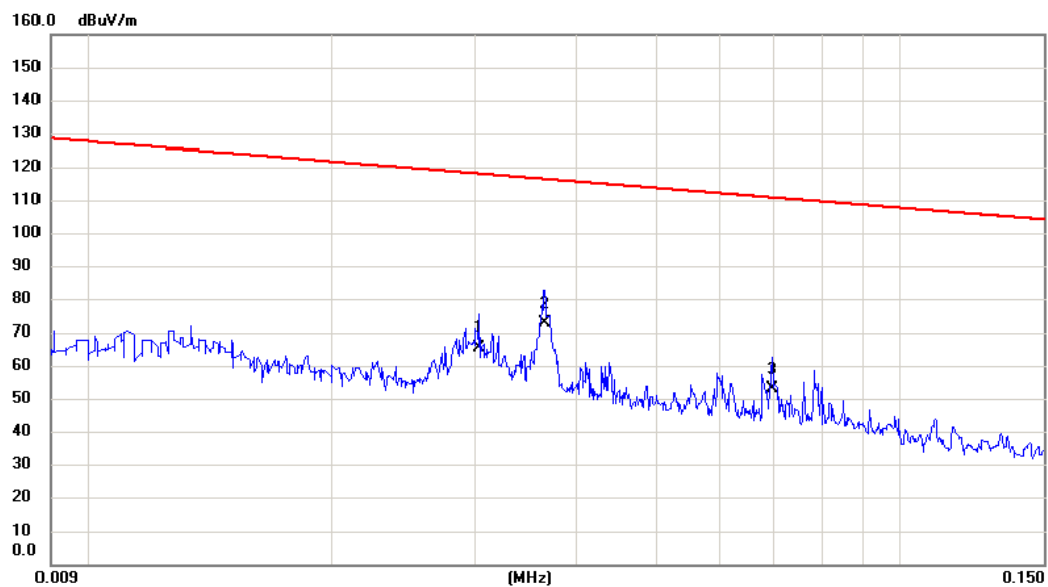
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2040	27.26	16.74	44.00	101.41	-57.41	AVG	
2	*	1.2098	24.33	15.72	40.05	65.95	-25.90	QP	
3		2.3962	18.62	15.28	33.90	69.54	-35.64	QP	

Test Mode:	TX B MODE CHANNEL 01_Adapter: RC30-0238
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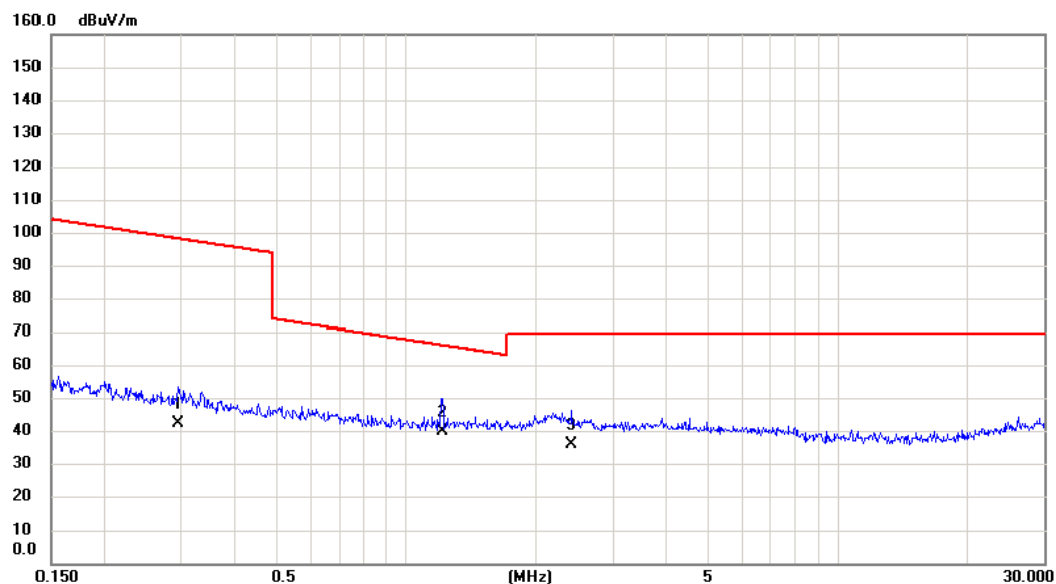
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0303	45.96	19.29	65.25	117.98	-52.73	AVG	
2	*	0.0366	53.32	19.10	72.42	116.34	-43.92	AVG	
3		0.0697	34.59	18.31	52.90	110.74	-57.84	AVG	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

Ant 90°



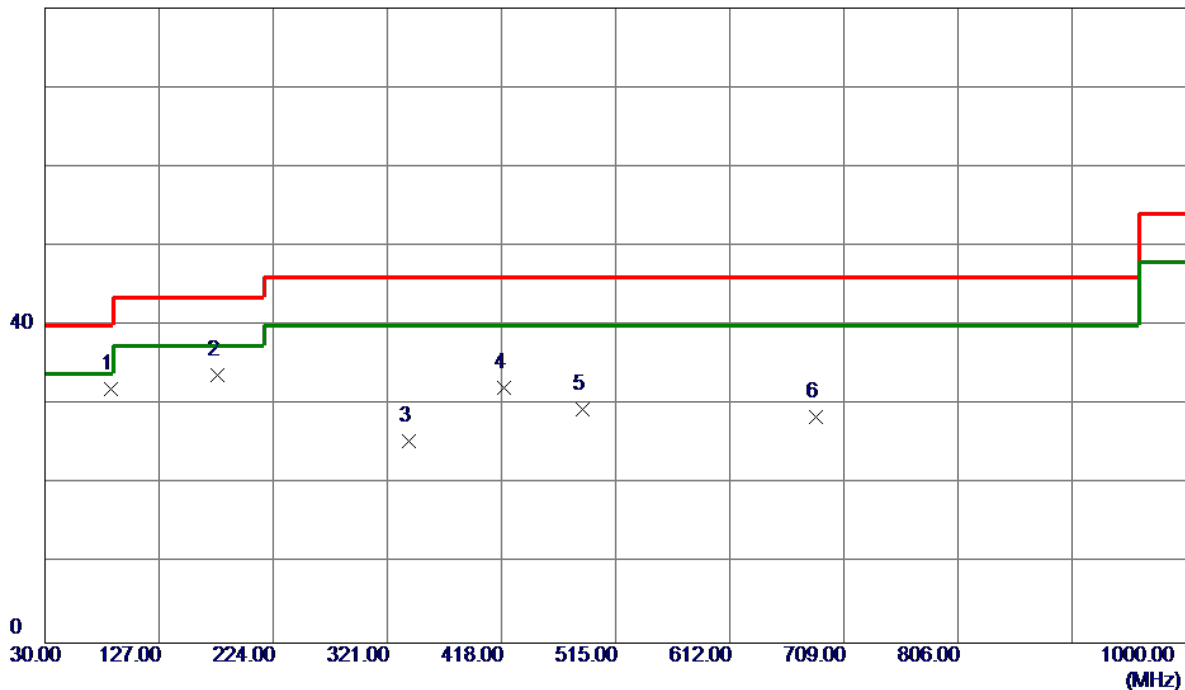
No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2971	25.69	16.62	42.31	98.15	-55.84	AVG	
2	*	1.2098	24.19	15.81	40.00	65.95	-25.95	QP	
3		2.4218	20.36	15.39	35.75	69.54	-33.79	QP	

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

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-024801

Vertical

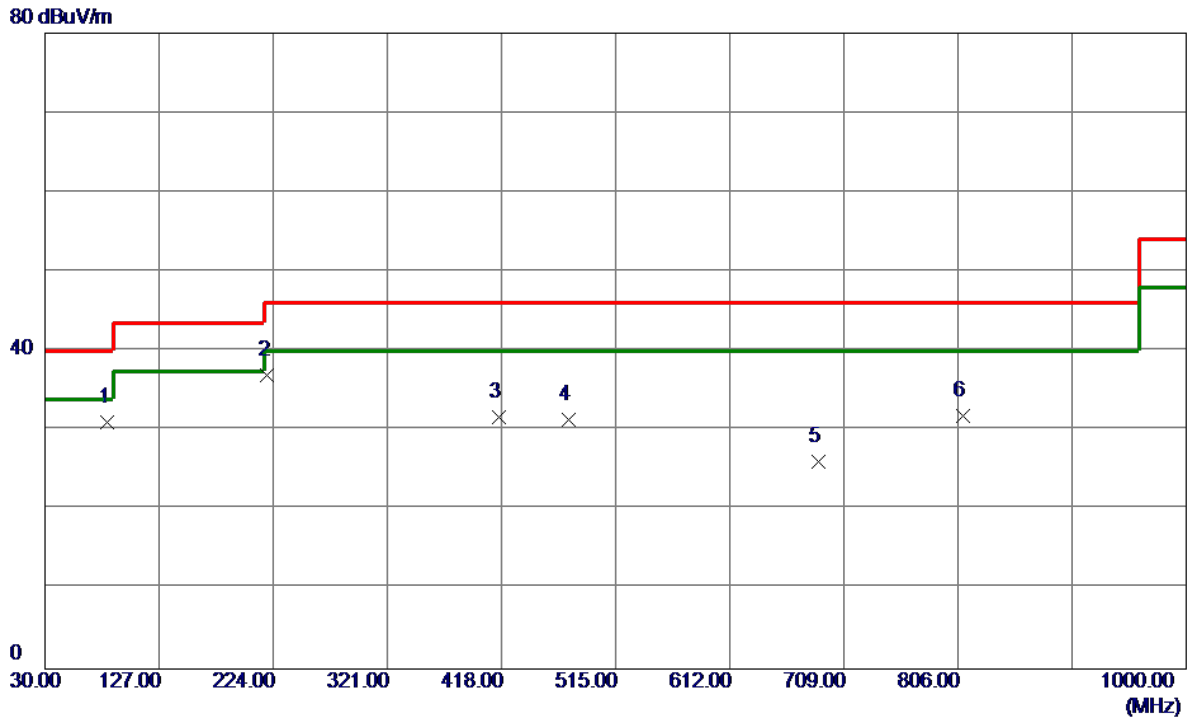
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	86.2600	50.50	-18.46	32.04	40.00	-7.96	Peak	
2	176.4700	45.91	-12.14	33.77	43.50	-9.73	Peak	
3	339.4300	37.63	-12.14	25.49	46.00	-20.51	Peak	
4	419.9400	42.88	-10.79	32.09	46.00	-13.91	Peak	
5	486.8700	38.45	-9.04	29.41	46.00	-16.59	Peak	
6	685.7199	32.83	-4.38	28.45	46.00	-17.55	Peak	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-024801

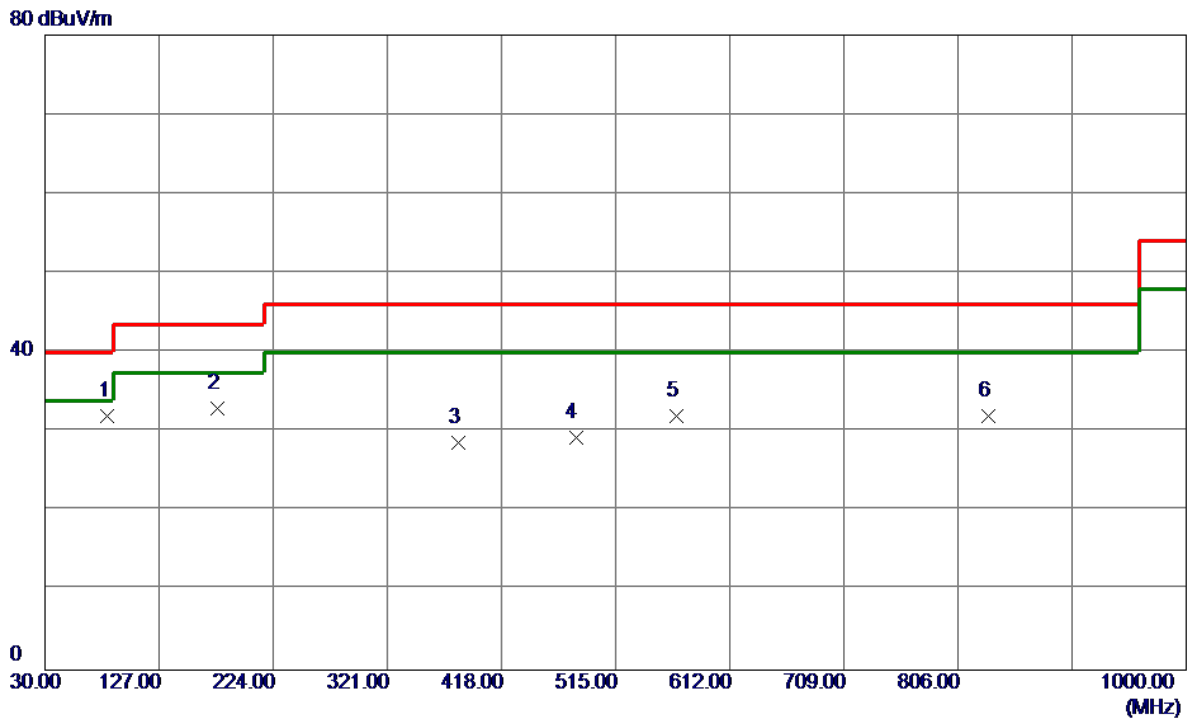
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	83.3500	49.45	-18.34	31.11	40.00	-8.89	Peak	
2	219.1500	50.91	-13.91	37.00	46.00	-9.00	Peak	
3	416.0600	42.52	-10.90	31.62	46.00	-14.38	Peak	
4	475.2300	40.70	-9.32	31.38	46.00	-14.62	Peak	
5	687.6599	30.42	-4.32	26.10	46.00	-19.90	Peak	
6	809.8800	33.00	-1.09	31.91	46.00	-14.09	Peak	

Test Mode: TX B MODE CHANNEL 06_Adapter: RC30-024801

Vertical

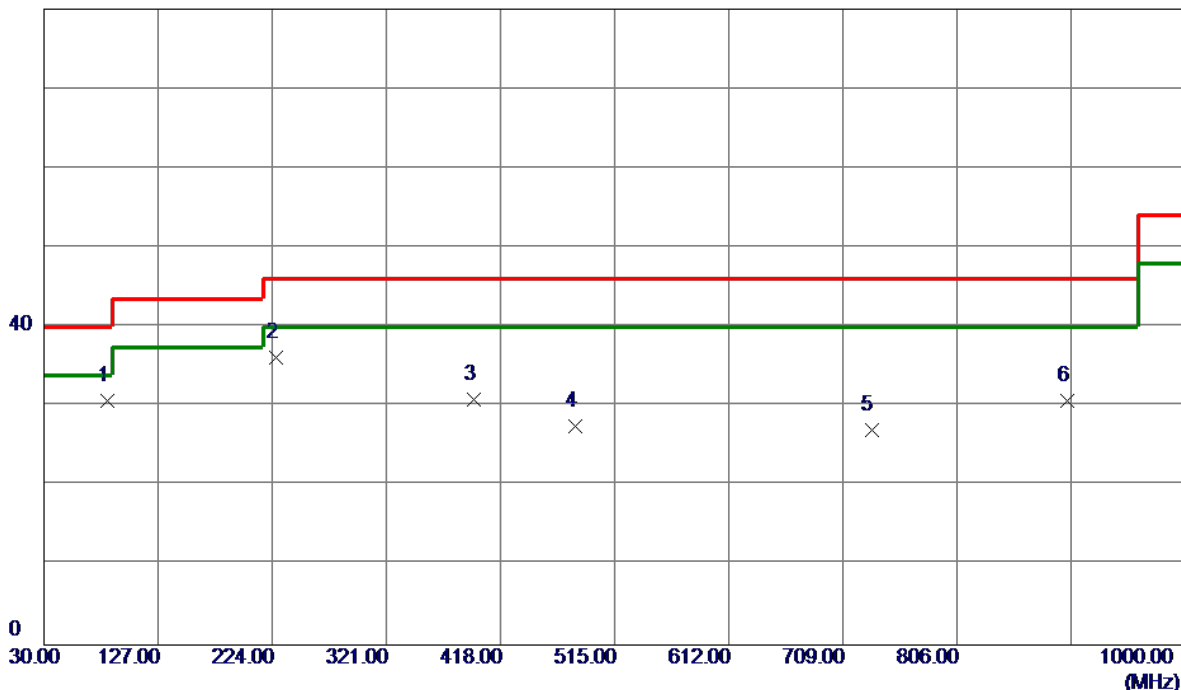


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	83.3500	50.41	-18.34	32.07	40.00	-7.93	Peak	
2	176.4700	45.06	-12.14	32.92	43.50	-10.58	Peak	
3	381.1400	40.26	-11.58	28.68	46.00	-17.32	Peak	
4	481.0500	38.43	-9.18	29.25	46.00	-16.75	Peak	
5	566.4099	39.34	-7.29	32.05	46.00	-13.95	Peak	
6	832.1900	32.46	-0.48	31.98	46.00	-14.02	Peak	

Test Mode: TX B MODE CHANNEL 06_Adapter: RC30-024801

Horizontal

80 dBuV/m



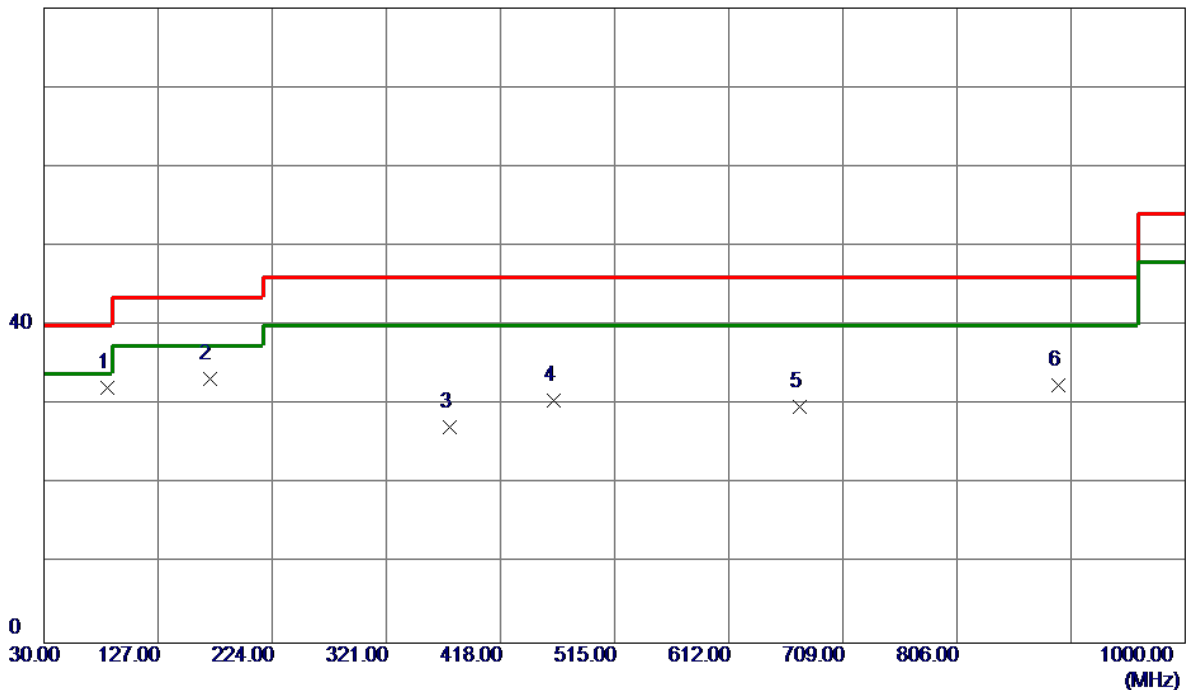
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	84.3200	49.05	-18.37	30.68	40.00	-9.32	Peak	
2	226.9100	50.18	-14.06	36.12	46.00	-9.88	Peak	
3	395.6900	42.28	-11.41	30.87	46.00	-15.13	Peak	
4	482.0200	36.65	-9.16	27.49	46.00	-18.51	Peak	
5	733.2500	29.95	-2.95	27.00	46.00	-19.00	Peak	
6	900.0900	29.70	1.03	30.73	46.00	-15.27	Peak	

Test Mode:

TX B MODE CHANNEL 11_Adapter: RC30-024801

Vertical

80 dBuV/m

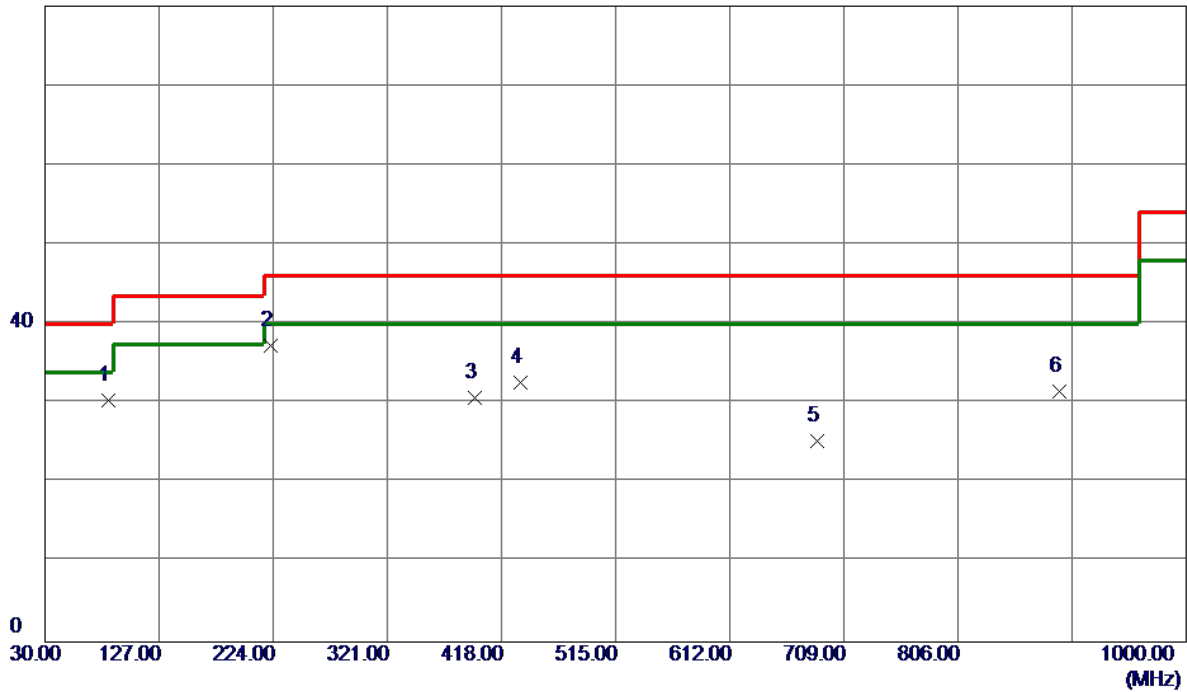


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	84.3200	50.54	-18.37	32.17	40.00	-7.83	Peak	
2	170.6500	45.56	-12.32	33.24	43.50	-10.26	Peak	
3	374.3500	38.83	-11.67	27.16	46.00	-18.84	Peak	
4	463.5900	40.10	-9.61	30.49	46.00	-15.51	Peak	
5	672.1400	34.60	-4.80	29.80	46.00	-16.20	Peak	
6	892.3300	31.57	0.87	32.44	46.00	-13.56	Peak	

Test Mode: TX B MODE CHANNEL 11_Adapter: RC30-024801

Horizontal

80 dBuV/m

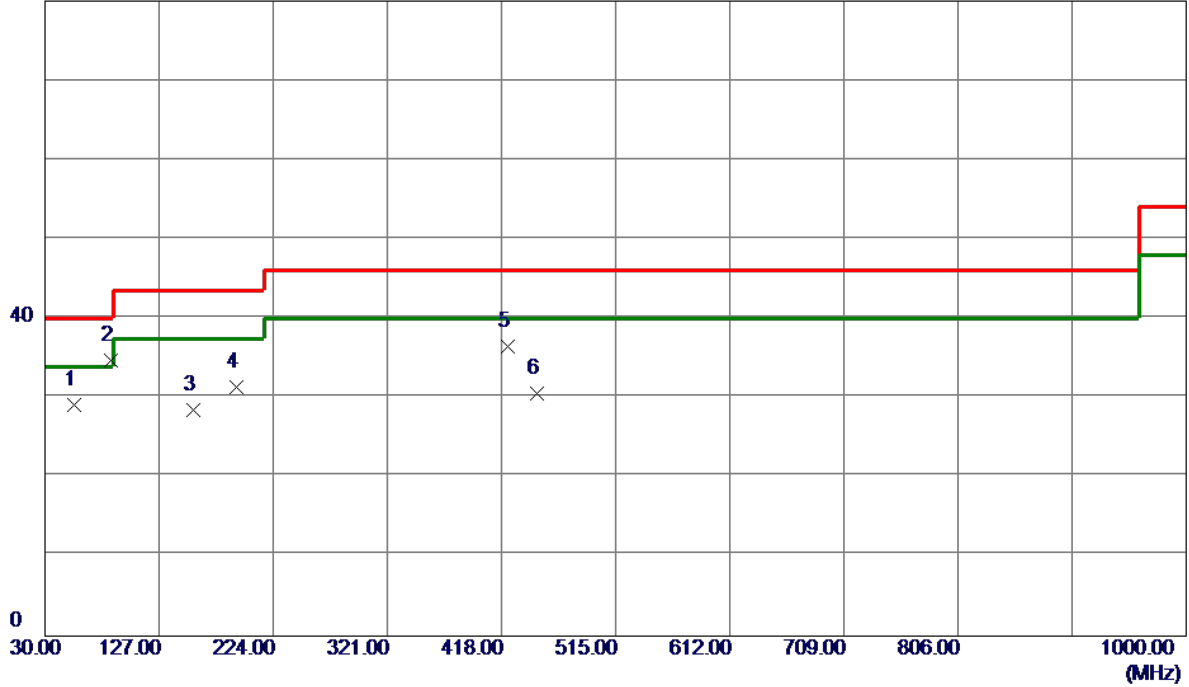


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	84.3200	48.78	-18.37	30.41	40.00	-9.59	Peak	
2 *	222.0600	51.27	-13.95	37.32	46.00	-8.68	Peak	
3	395.6900	42.19	-11.41	30.78	46.00	-15.22	Peak	
4	434.4900	43.07	-10.38	32.69	46.00	-13.31	Peak	
5	686.6900	29.66	-4.35	25.31	46.00	-20.69	Peak	
6	892.3300	30.66	0.87	31.53	46.00	-14.47	Peak	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

Vertical

80 dBuV/m

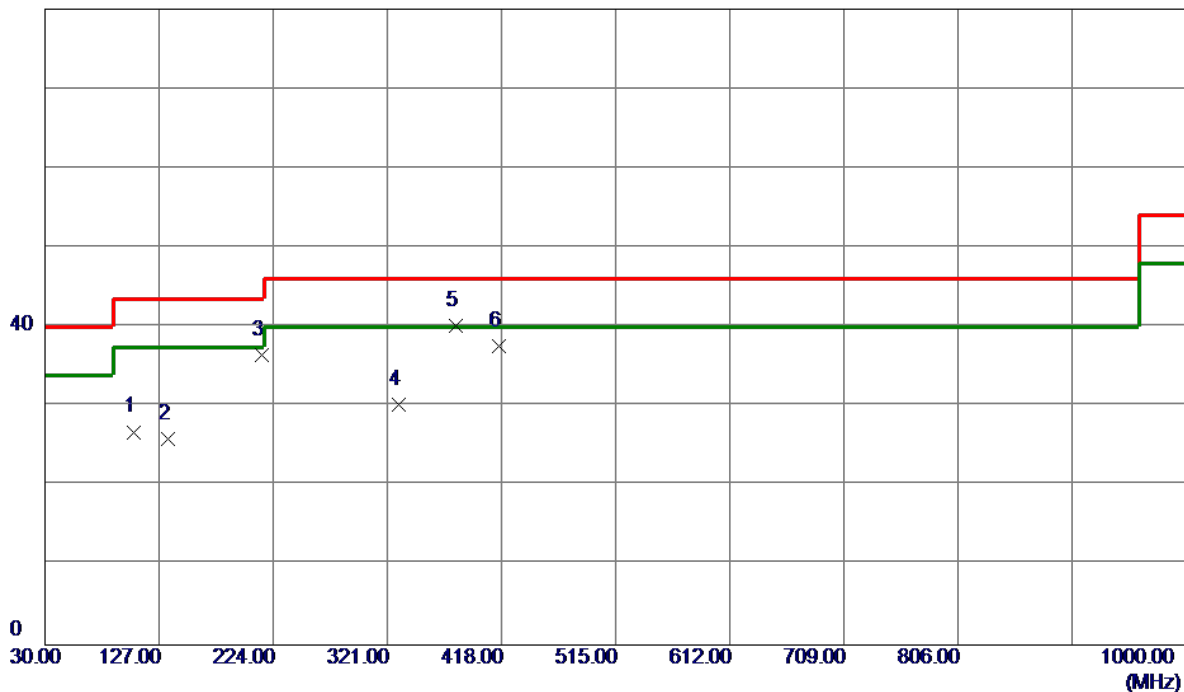


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	55.2200	43.01	-13.94	29.07	40.00	-10.93	Peak	
2 *	86.2600	53.18	-18.46	34.72	40.00	-5.28	Peak	
3	156.1000	41.69	-13.16	28.53	43.50	-14.97	Peak	
4	192.9600	44.45	-13.11	31.34	43.50	-12.16	Peak	
5	422.8500	47.13	-10.71	36.42	46.00	-9.58	Peak	
6	448.0700	40.61	-9.99	30.62	46.00	-15.38	Peak	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

Horizontal

80 dBuV/m

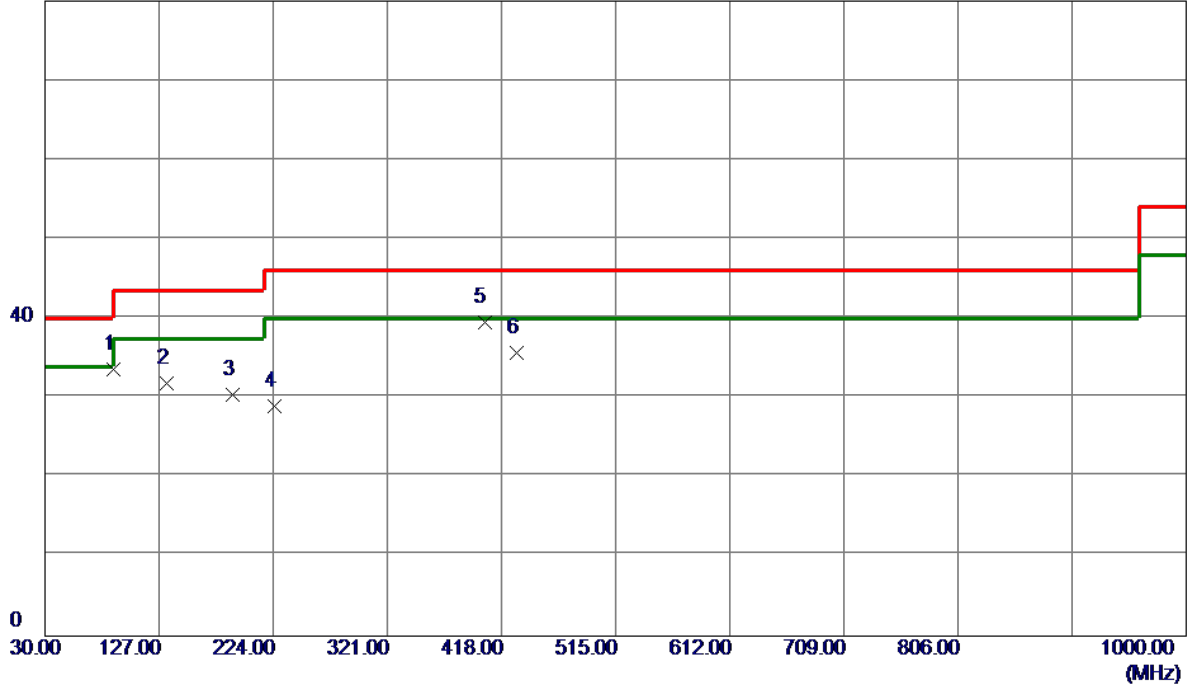


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	105.6600	43.55	-16.75	26.80	43.50	-16.70	Peak	
2	134.7600	40.43	-14.47	25.96	43.50	-17.54	Peak	
3	214.3000	50.39	-13.95	36.44	43.50	-7.06	Peak	
4	330.7000	42.46	-12.29	30.17	46.00	-15.83	Peak	
5 *	379.2000	51.76	-11.61	40.15	46.00	-5.85	Peak	
6	416.0600	48.57	-10.90	37.67	46.00	-8.33	Peak	

Test Mode: TX B MODE CHANNEL 06_Adapter: RC30-0238

Vertical

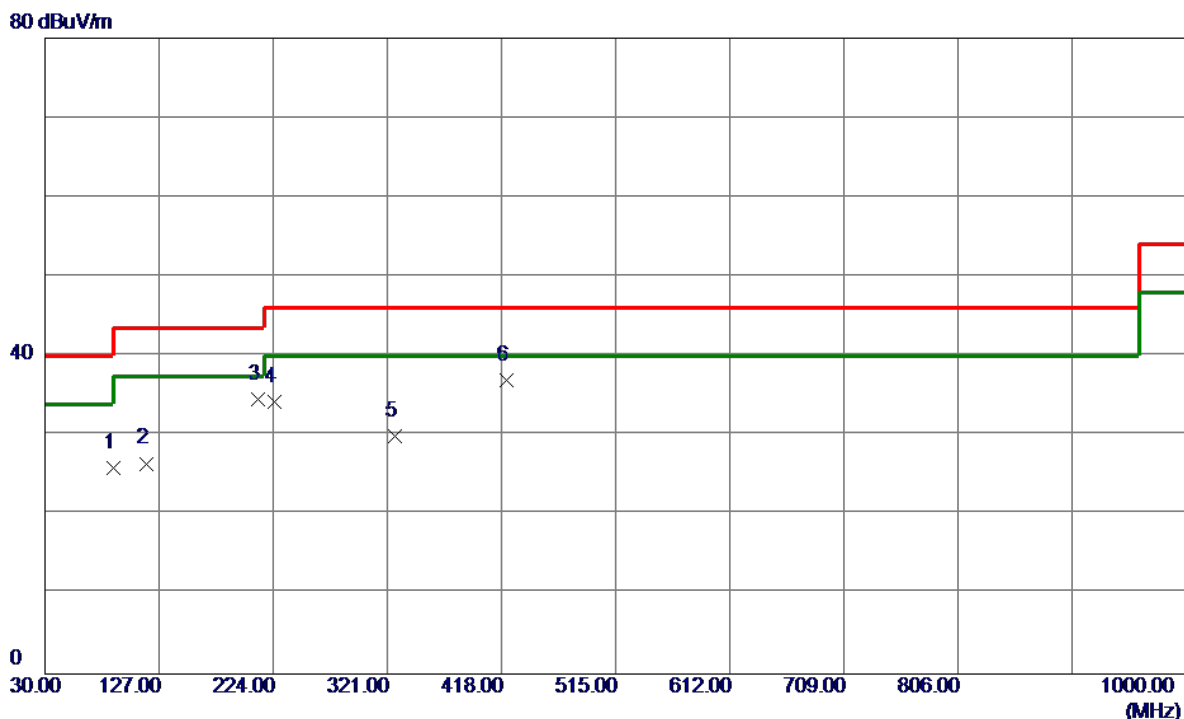
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	88.2000	52.15	-18.56	33.59	43.50	-9.91	Peak	
2	133.7899	46.37	-14.52	31.85	43.50	-11.65	Peak	
3	189.0800	43.10	-12.77	30.33	43.50	-13.17	Peak	
4	224.9700	43.02	-14.02	29.00	46.00	-17.00	Peak	
5 *	403.4500	50.85	-11.26	39.59	46.00	-6.41	Peak	
6	430.6100	46.10	-10.49	35.61	46.00	-10.39	Peak	

Test Mode: TX B MODE CHANNEL 06_Adapter: RC30-0238

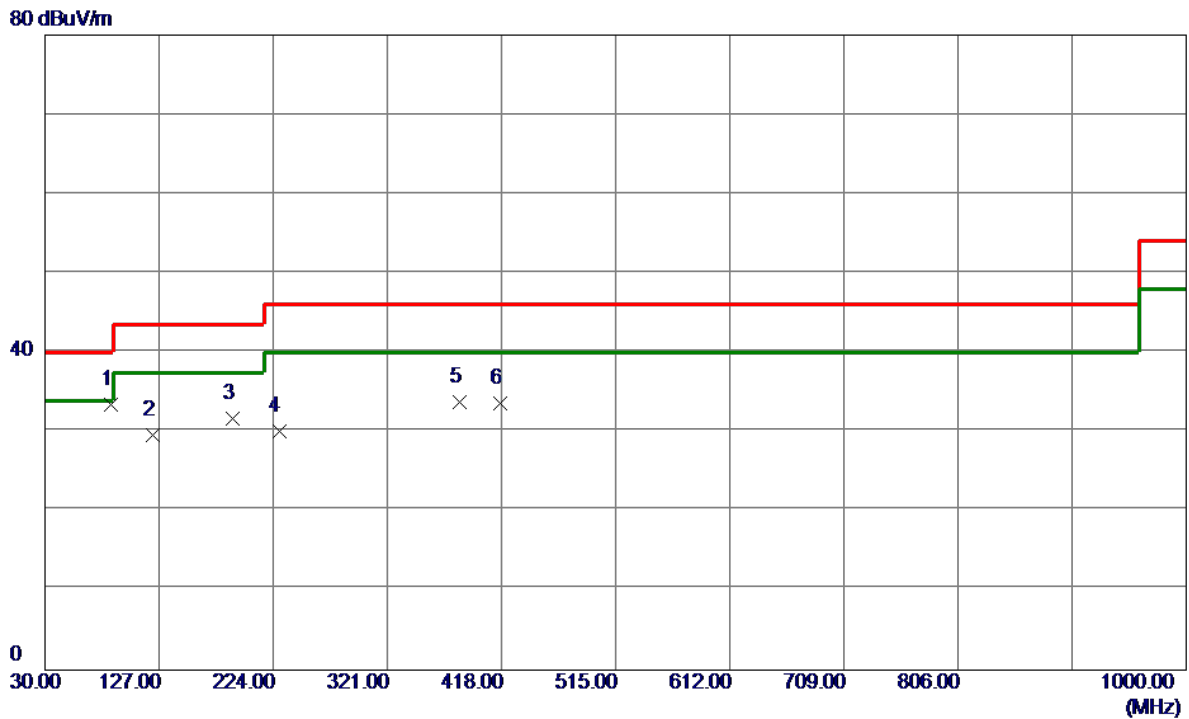
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	88.2000	44.42	-18.56	25.86	43.50	-17.64	Peak	
2	116.3300	42.17	-15.69	26.48	43.50	-17.02	Peak	
3 *	211.3900	48.51	-13.97	34.54	43.50	-8.96	Peak	
4	224.9700	48.30	-14.02	34.28	46.00	-11.72	Peak	
5	327.7900	42.24	-12.34	29.90	46.00	-16.10	Peak	
6	421.8800	47.75	-10.74	37.01	46.00	-8.99	Peak	

Test Mode: TX B MODE CHANNEL 11_Adapter: RC30-0238

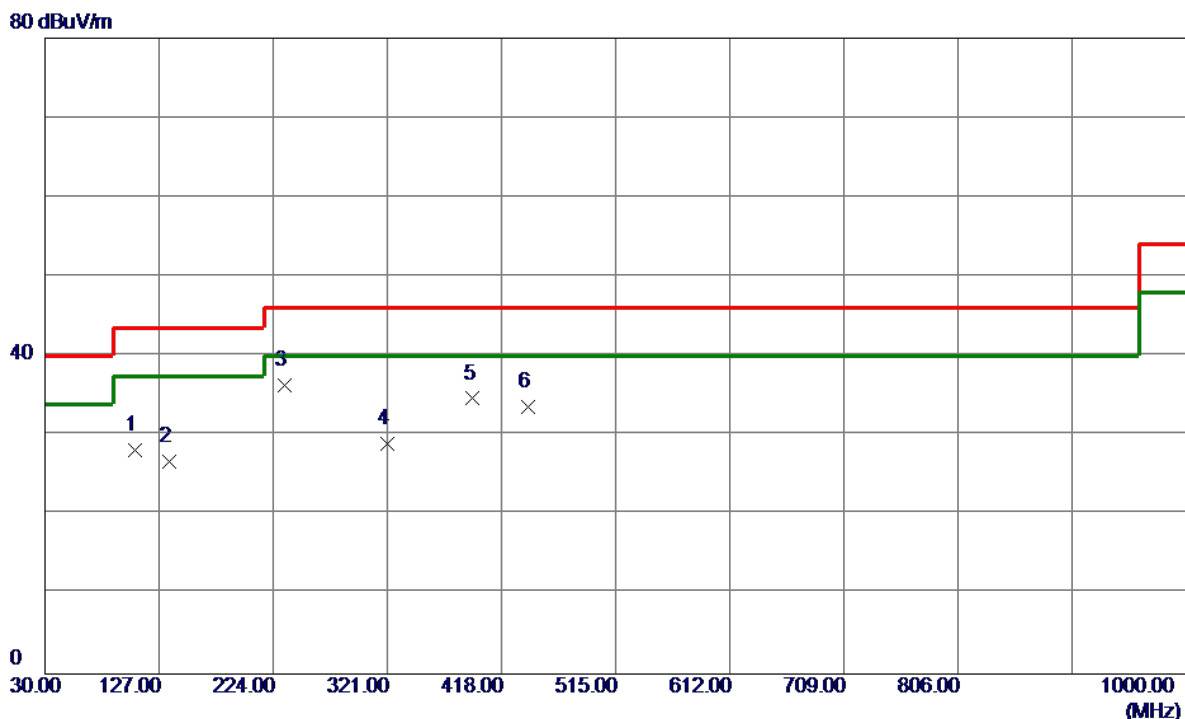
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	86.2600	51.84	-18.46	33.38	40.00	-6.62	Peak	
2	121.1800	44.93	-15.32	29.61	43.50	-13.89	Peak	
3	189.0800	44.45	-12.77	31.68	43.50	-11.82	Peak	
4	228.8500	44.16	-14.10	30.06	46.00	-15.94	Peak	
5	382.1099	45.38	-11.57	33.81	46.00	-12.19	Peak	
6	417.0300	44.51	-10.88	33.63	46.00	-12.37	Peak	

Test Mode: TX B MODE CHANNEL 11_Adapter: RC30-0238

Horizontal



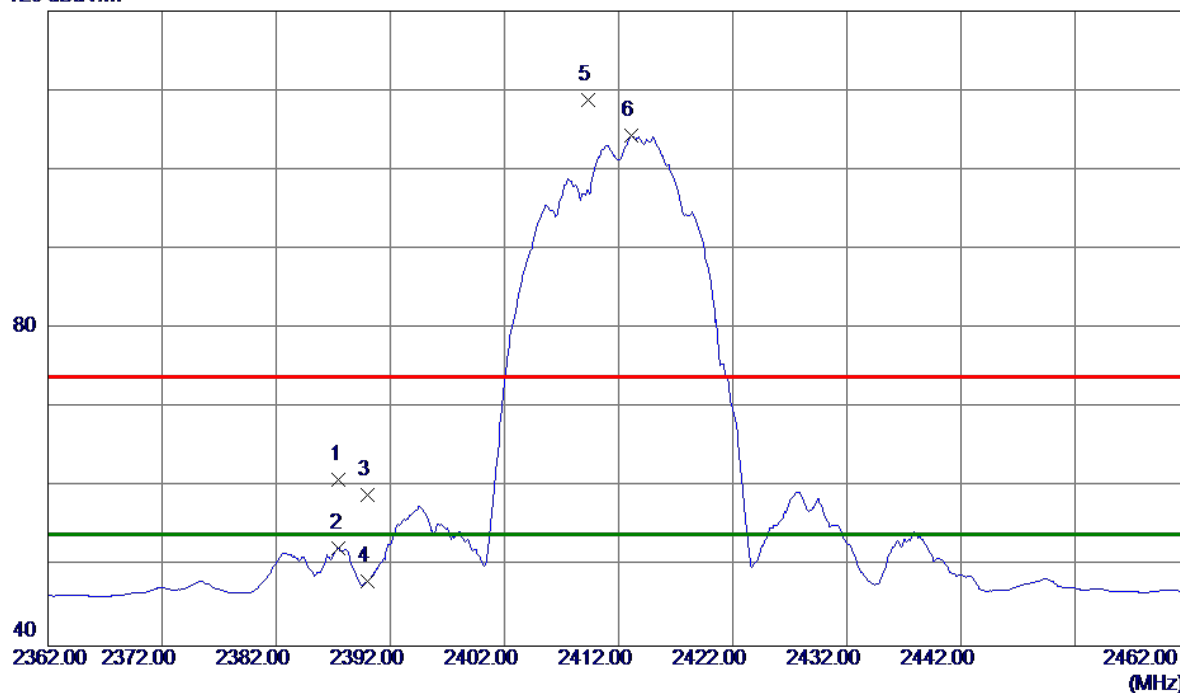
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	106.6300	44.71	-16.62	28.09	43.50	-15.41	Peak	
2	135.7300	41.18	-14.43	26.75	43.50	-16.75	Peak	
3 *	233.7000	50.47	-14.22	36.25	46.00	-9.75	Peak	
4	321.0000	41.46	-12.46	29.00	46.00	-17.00	Peak	
5	393.7500	46.07	-11.43	34.64	46.00	-11.36	Peak	
6	440.3100	43.87	-10.22	33.65	46.00	-12.35	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

120 dBuV/m

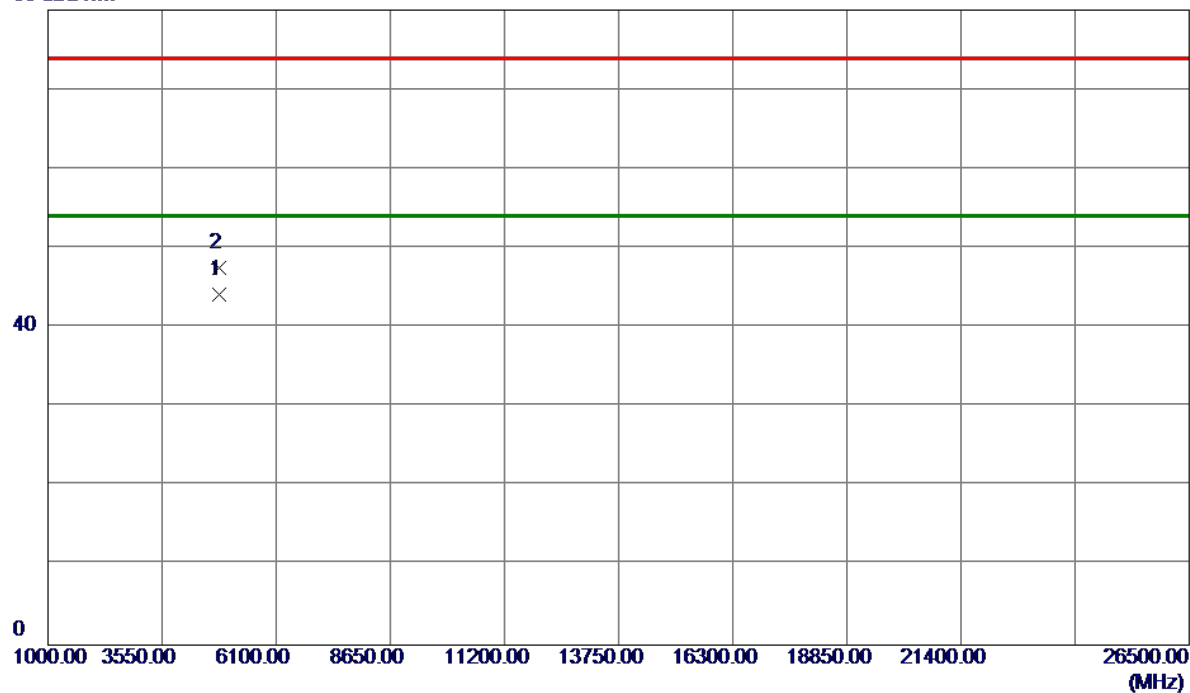


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.5000	27.96	33.05	61.01	74.00	-12.99	Peak	
2	2387.5000	19.22	33.05	52.27	54.00	-1.73	AVG	
3	2390.0000	25.92	33.06	58.98	74.00	-15.02	Peak	
4	2390.0000	15.13	33.06	48.19	54.00	-5.81	AVG	
5	2409.3000	75.61	33.13	108.74	74.00	34.74	Peak	No Limit
6 *	2413.1000	71.18	33.14	104.32	54.00	50.32	AVG	No Limit

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

Vertical

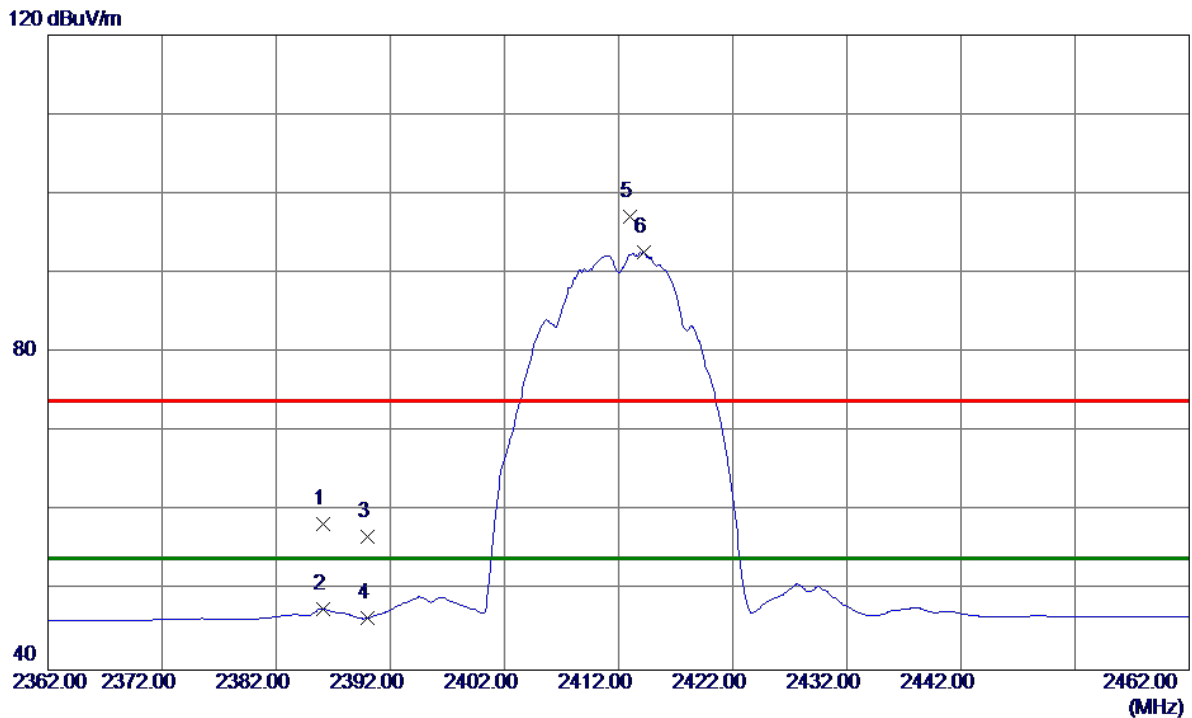
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0200	37.48	6.66	44.14	54.00	-9.86	AVG	
2	4824.1000	40.86	6.66	47.52	74.00	-26.48	Peak	

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

Horizontal

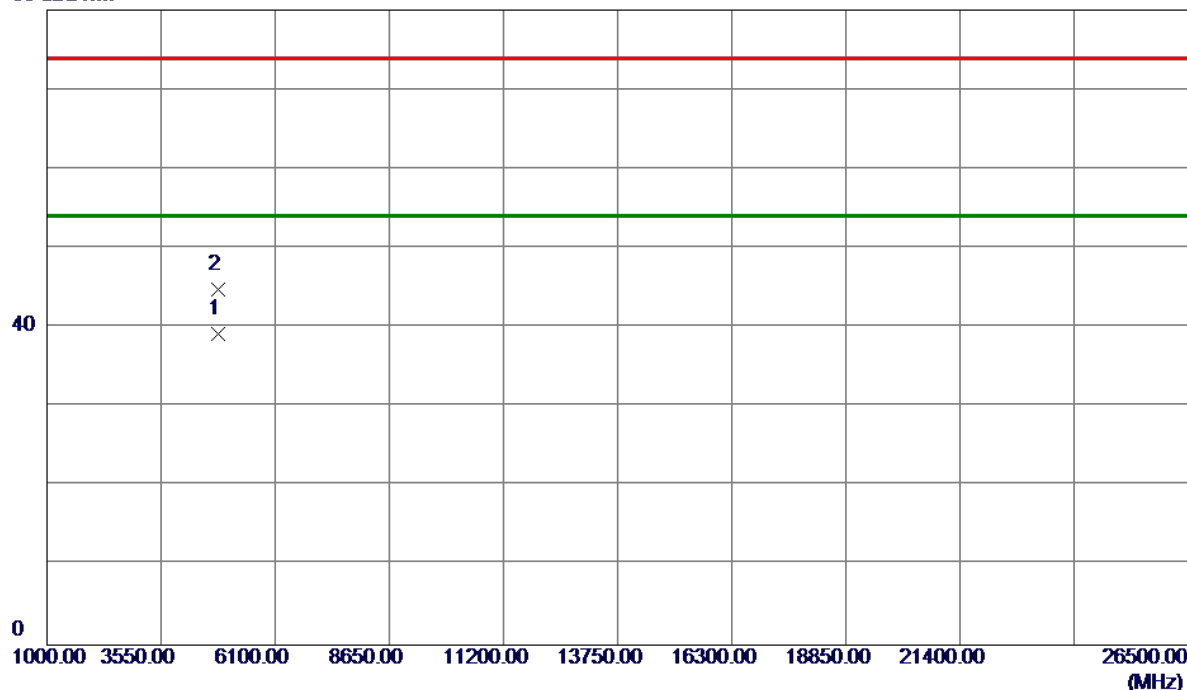


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.1000	25.32	33.04	58.36	74.00	-15.64	Peak	
2	2386.1000	14.71	33.04	47.75	54.00	-6.25	AVG	
3	2390.0000	23.75	33.06	56.81	74.00	-17.19	Peak	
4	2390.0000	13.47	33.06	46.53	54.00	-7.47	AVG	
5	2413.0000	63.96	33.14	97.10	74.00	23.10	Peak	No Limit
6 *	2414.2000	59.45	33.15	92.60	54.00	38.60	AVG	No Limit

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

Horizontal

80 dBuV/m

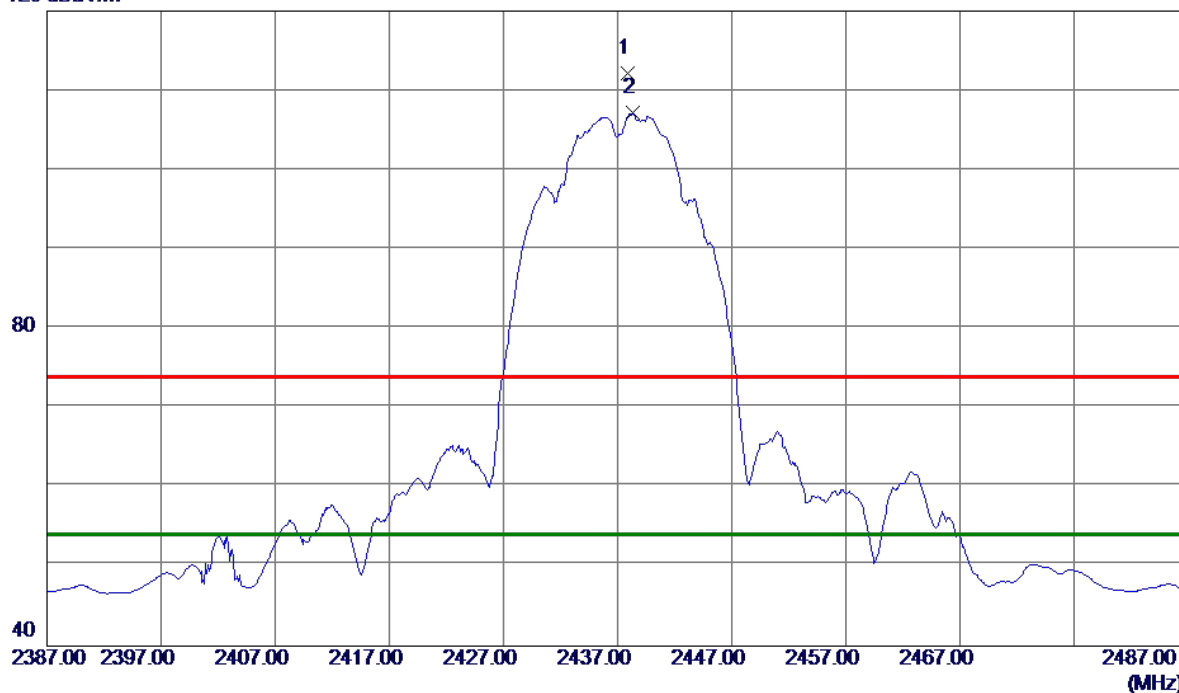


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	32.61	6.66	39.27	54.00	-14.73	AVG	
2	4824.0400	38.09	6.66	44.75	74.00	-29.25	Peak	

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

Vertical

120 dBuV/m

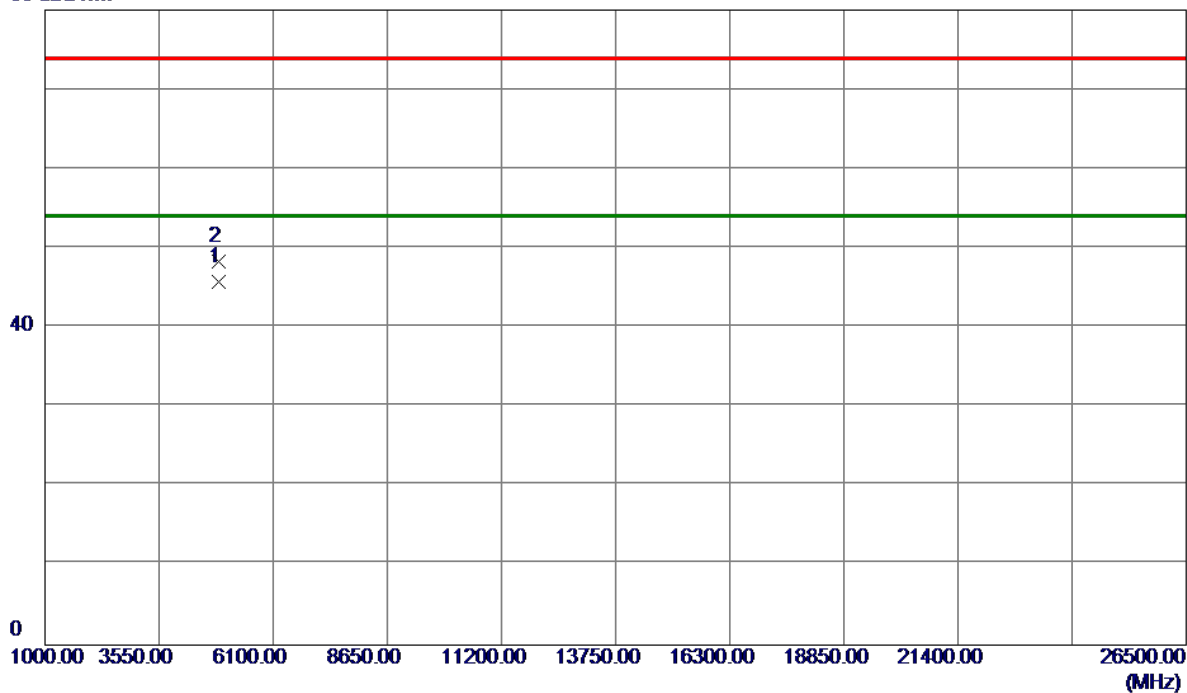


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.9000	78.97	33.24	112.21	74.00	38.21	Peak	No Limit
2 *	2438.3000	73.98	33.24	107.22	54.00	53.22	AVG	No Limit

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

Vertical

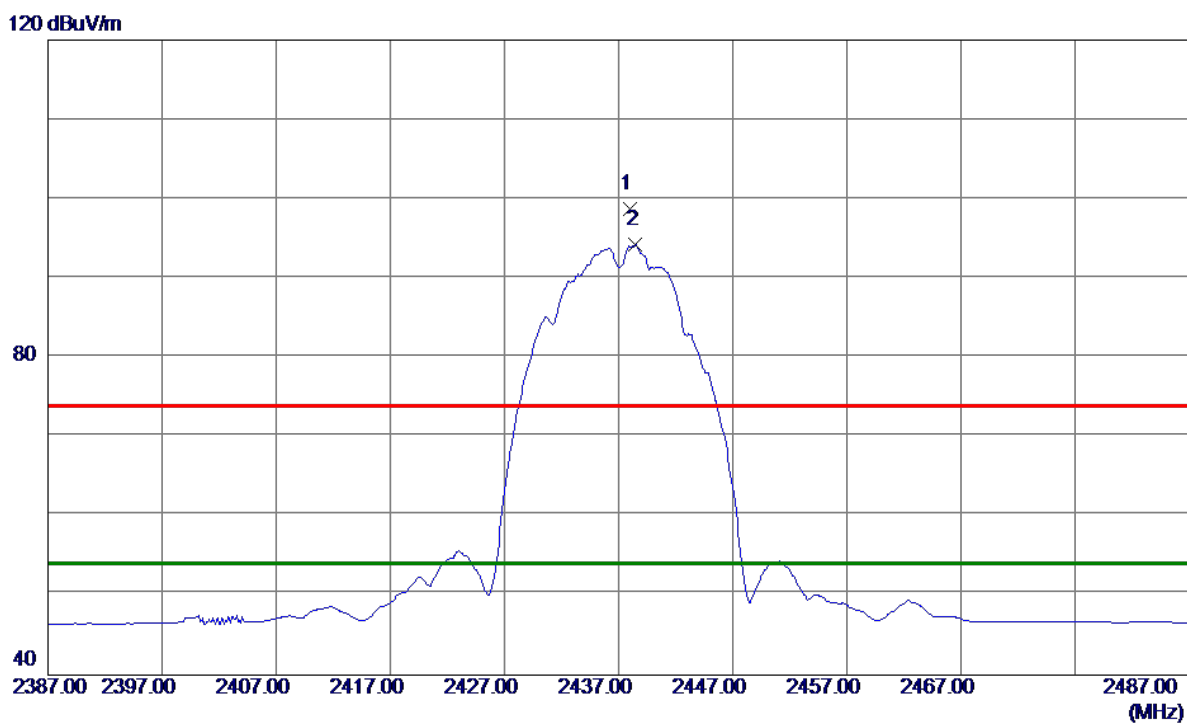
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9800	38.86	6.84	45.70	54.00	-8.30	AVG	
2	4874.0000	41.55	6.84	48.39	74.00	-25.61	Peak	

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

Horizontal

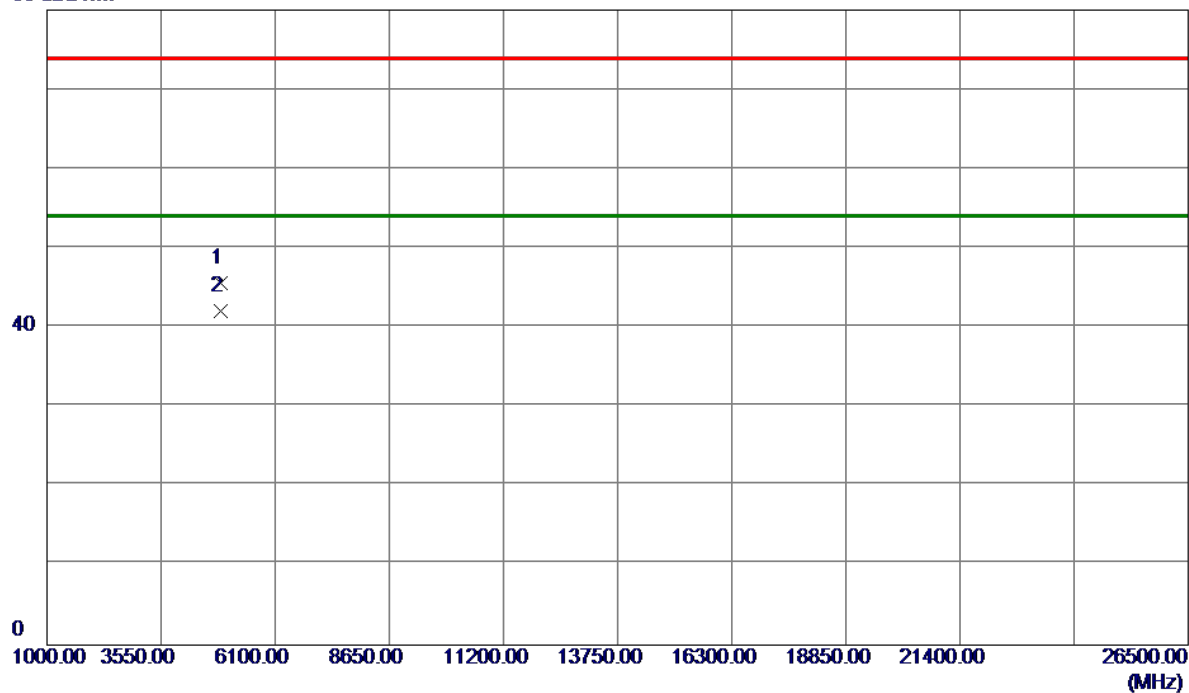


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2438.0000	65.55	33.24	98.79	74.00	24.79	Peak	No Limit
2 *	2438.5000	61.02	33.24	94.26	54.00	40.26	AVG	No Limit

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

Horizontal

80 dBuV/m

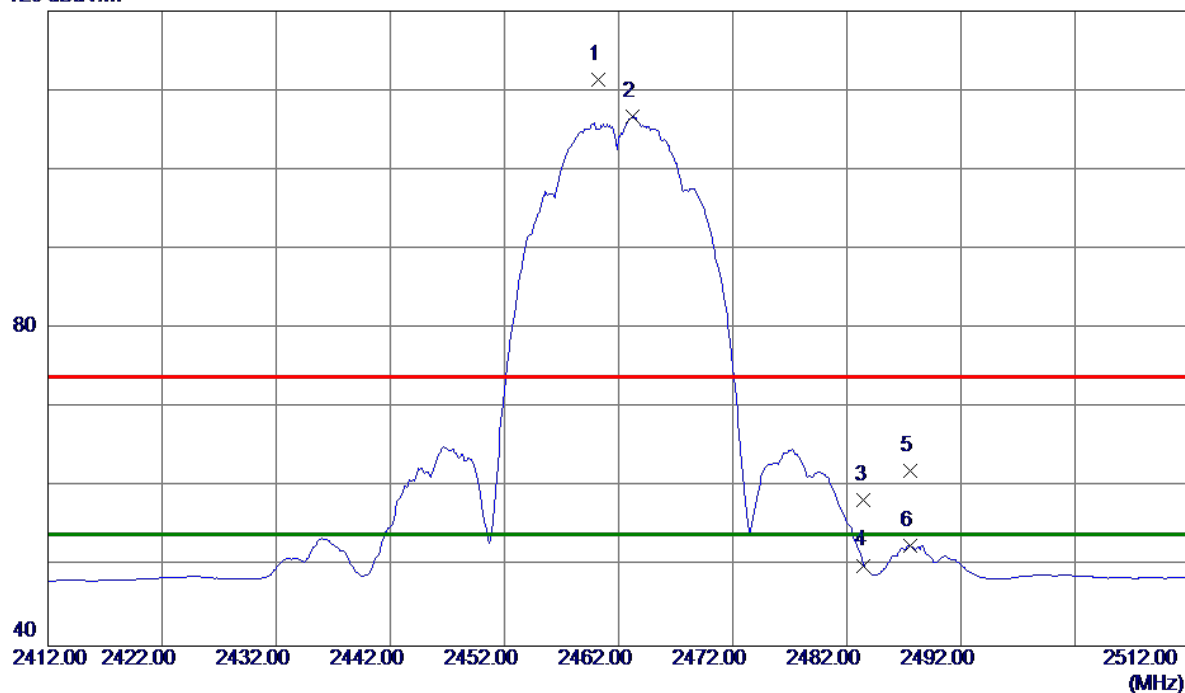


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8600	38.78	6.84	45.62	74.00	-28.38	Peak	
2 *	4874.0200	35.29	6.84	42.13	54.00	-11.87	AVG	

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

Vertical

120 dBuV/m

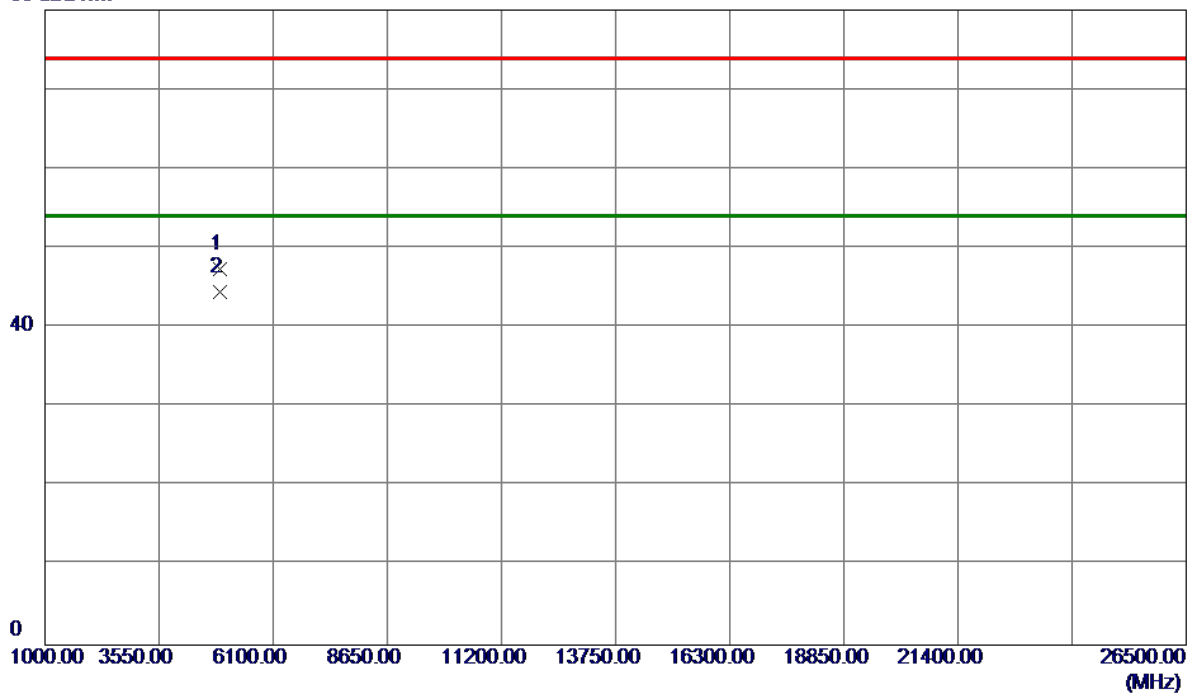


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.2500	78.03	33.32	111.35	74.00	37.35	Peak	No Limit
2 *	2463.2500	73.35	33.33	106.68	54.00	52.68	AVG	No Limit
3	2483.5000	25.02	33.41	58.43	74.00	-15.57	Peak	
4	2483.5000	16.75	33.41	50.16	54.00	-3.84	AVG	
5	2487.6000	28.66	33.42	62.08	74.00	-11.92	Peak	
6	2487.6000	19.23	33.42	52.65	54.00	-1.35	AVG	

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

Vertical

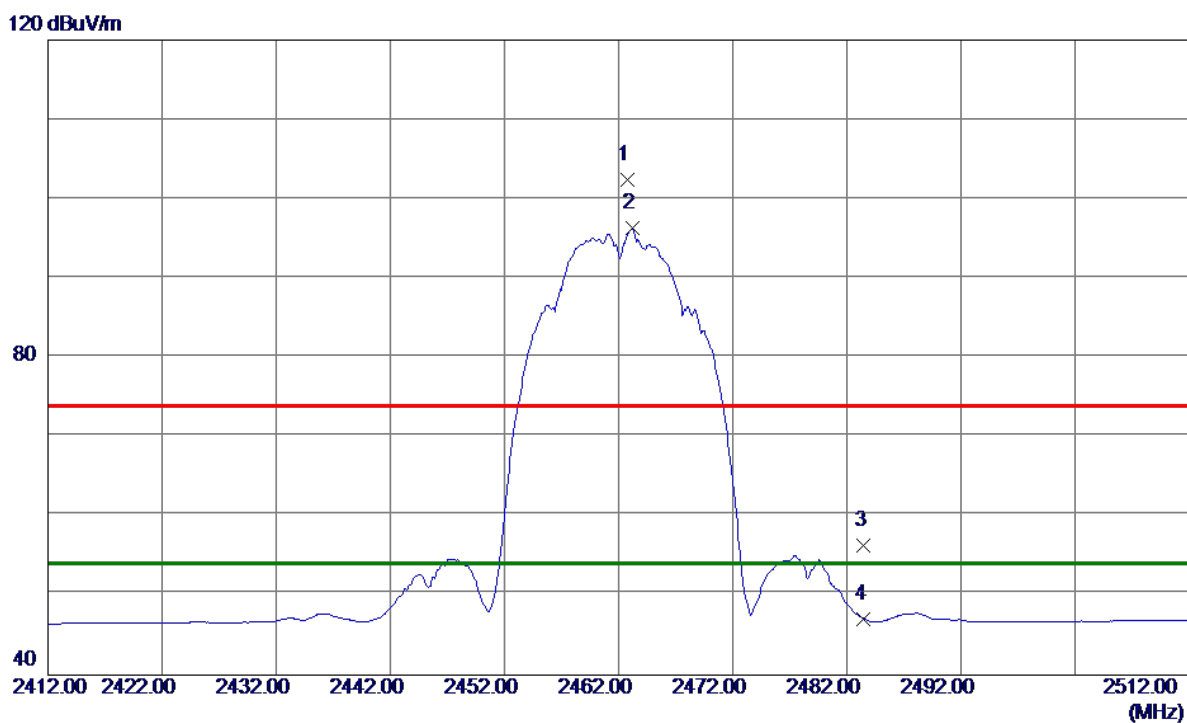
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9200	40.31	7.02	47.33	74.00	-26.67	Peak	
2 *	4923.9800	37.42	7.02	44.44	54.00	-9.56	AVG	

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

Horizontal

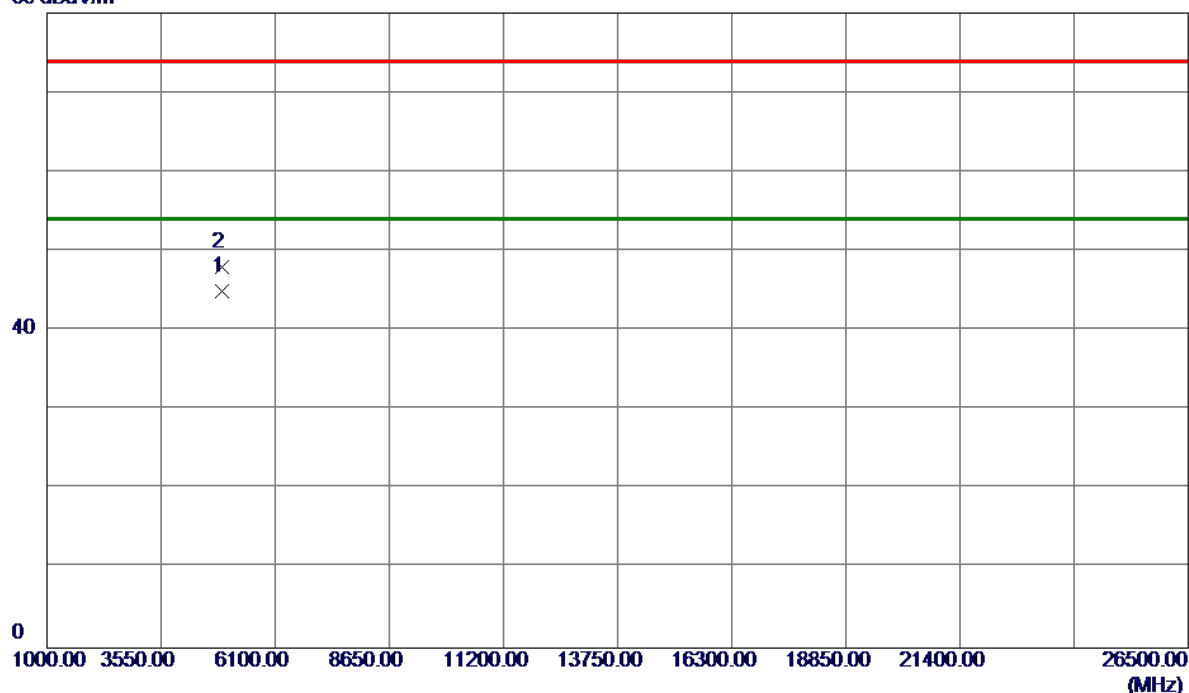


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.8000	69.14	33.33	102.47	74.00	28.47	Peak	No Limit
2 *	2463.2000	62.93	33.33	96.26	54.00	42.26	AVG	No Limit
3	2483.5000	22.94	33.41	56.35	74.00	-17.65	Peak	
4	2483.5000	13.70	33.41	47.11	54.00	-6.89	AVG	

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

Horizontal

80 dBuV/m

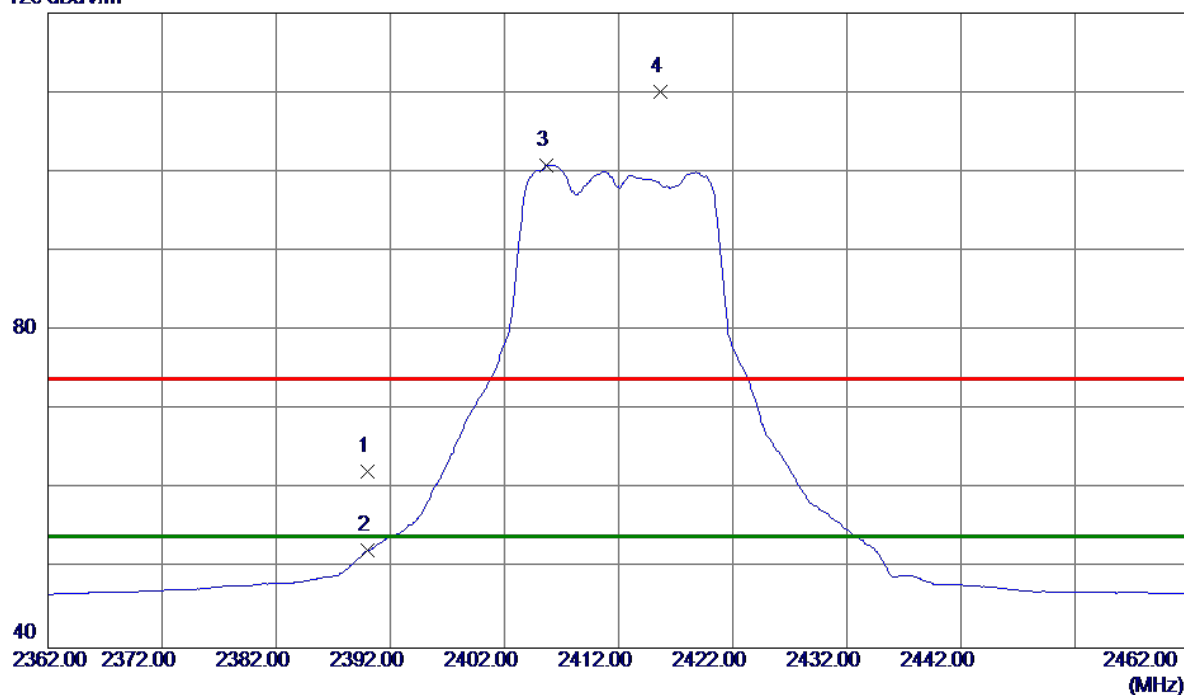


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0200	37.94	7.02	44.96	54.00	-9.04	AVG	
2	4924.0400	40.95	7.02	47.97	74.00	-26.03	Peak	

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

Vertical

120 dBuV/m

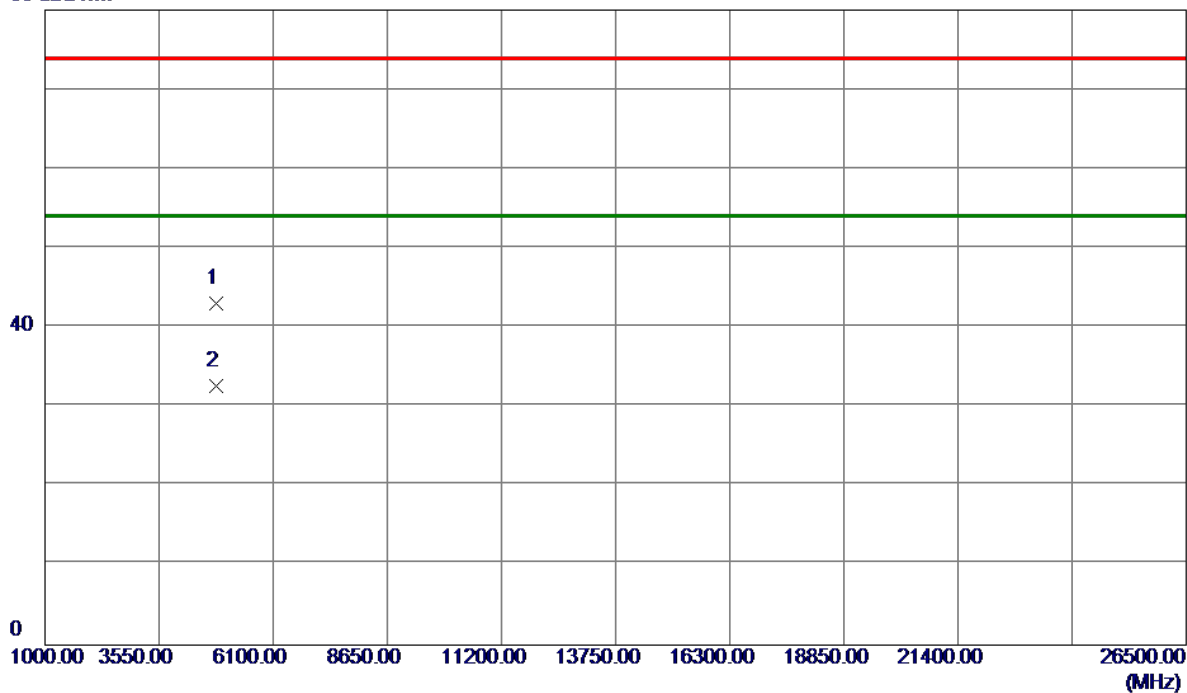


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.20	33.06	62.26	74.00	-11.74	Peak	
2	2390.0000	19.27	33.06	52.33	54.00	-1.67	AVG	
3 *	2405.7000	67.70	33.12	100.82	54.00	46.82	AVG	No Limit
4	2415.7000	76.91	33.15	110.06	74.00	36.06	Peak	No Limit

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

Vertical

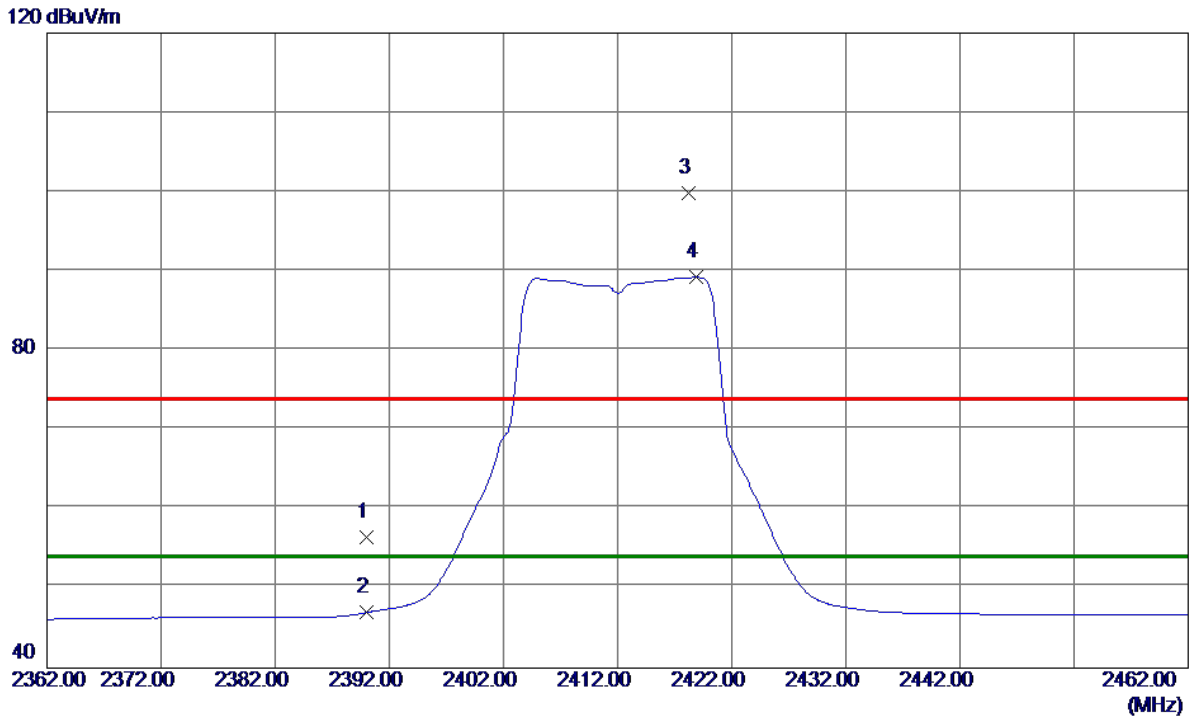
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4814.1000	36.46	6.62	43.08	74.00	-30.92	Peak	
2 *	4822.0000	26.04	6.65	32.69	54.00	-21.31	AVG	

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

Horizontal

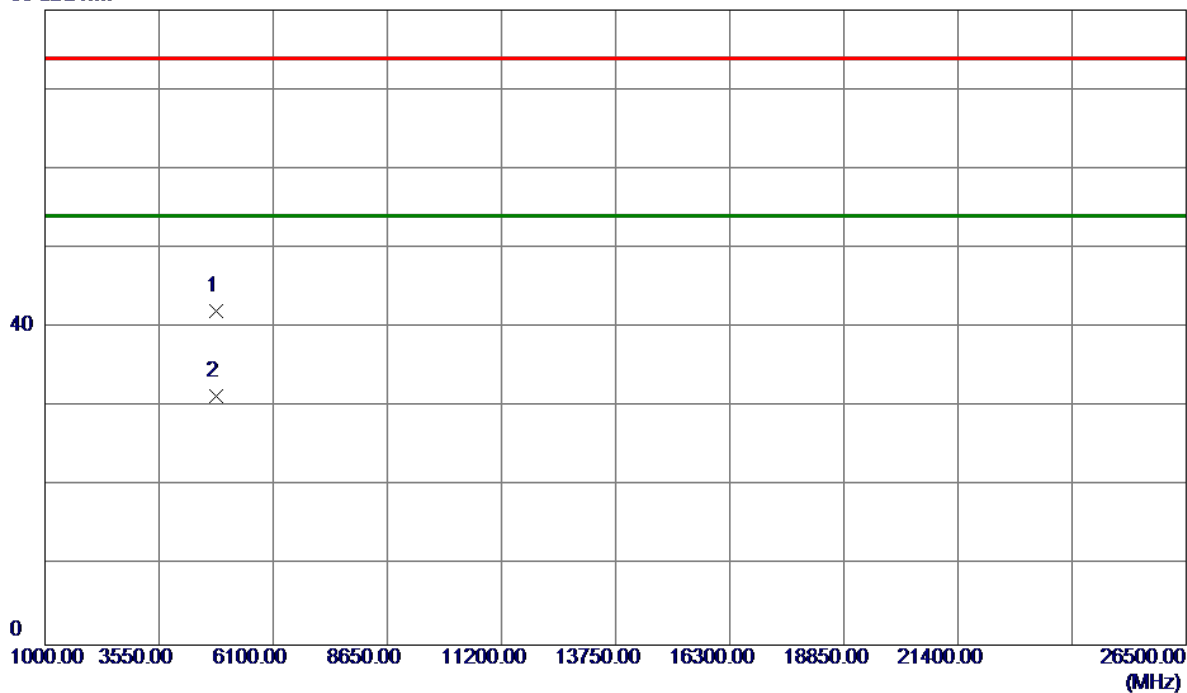


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.40	33.06	56.46	74.00	-17.54	Peak	
2	2390.0000	13.93	33.06	46.99	54.00	-7.01	AVG	
3	2418.2000	66.75	33.16	99.91	74.00	25.91	Peak	No Limit
4 *	2418.9000	56.07	33.16	89.23	54.00	35.23	AVG	No Limit

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

Horizontal

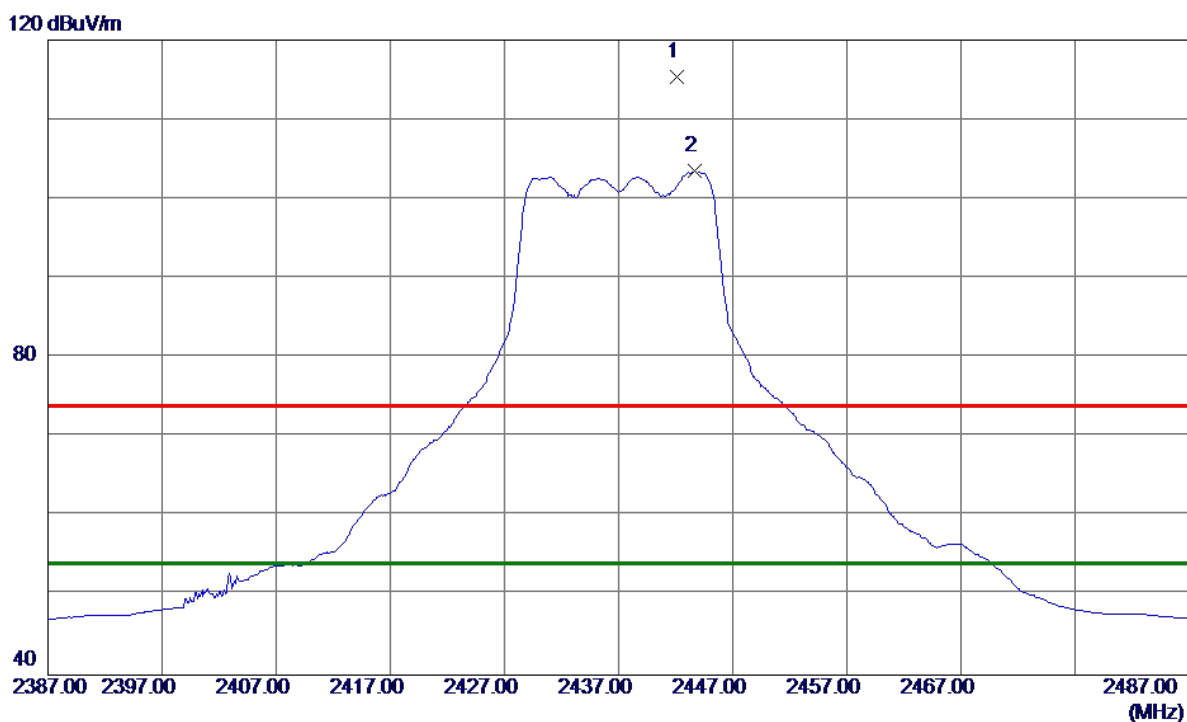
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4816.5800	35.50	6.63	42.13	74.00	-31.87	Peak	
2 *	4822.9000	24.69	6.65	31.34	54.00	-22.66	AVG	

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

Vertical

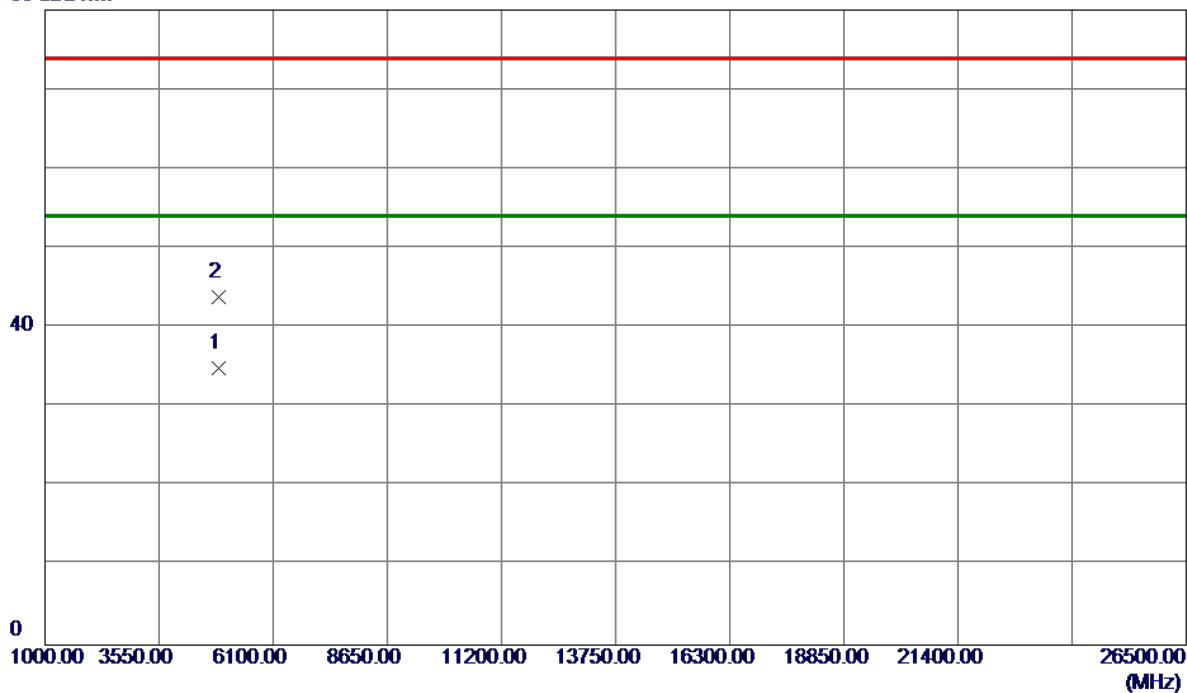


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.1000	82.08	33.25	115.33	74.00	41.33	Peak	No Limit
2 *	2443.7000	70.19	33.26	103.45	54.00	49.45	AVG	No Limit

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

Vertical

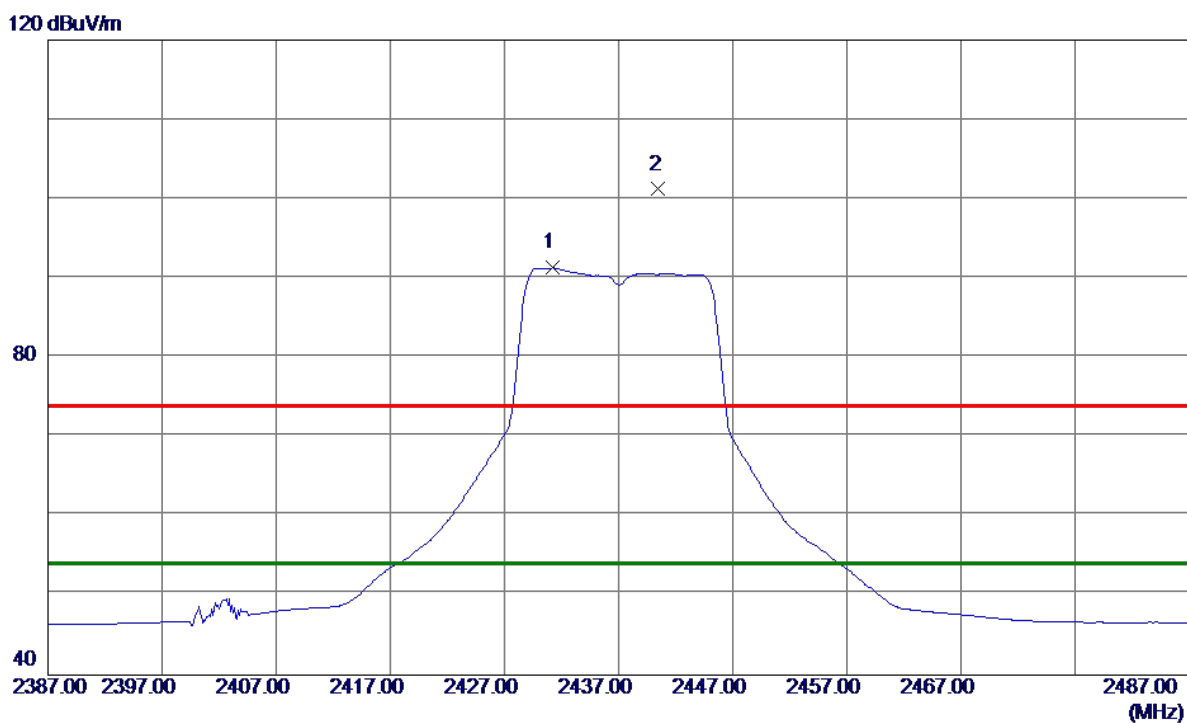
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4000	27.97	6.84	34.81	54.00	-19.19	AVG	
2	4874.3000	37.08	6.84	43.92	74.00	-30.08	Peak	

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

Horizontal

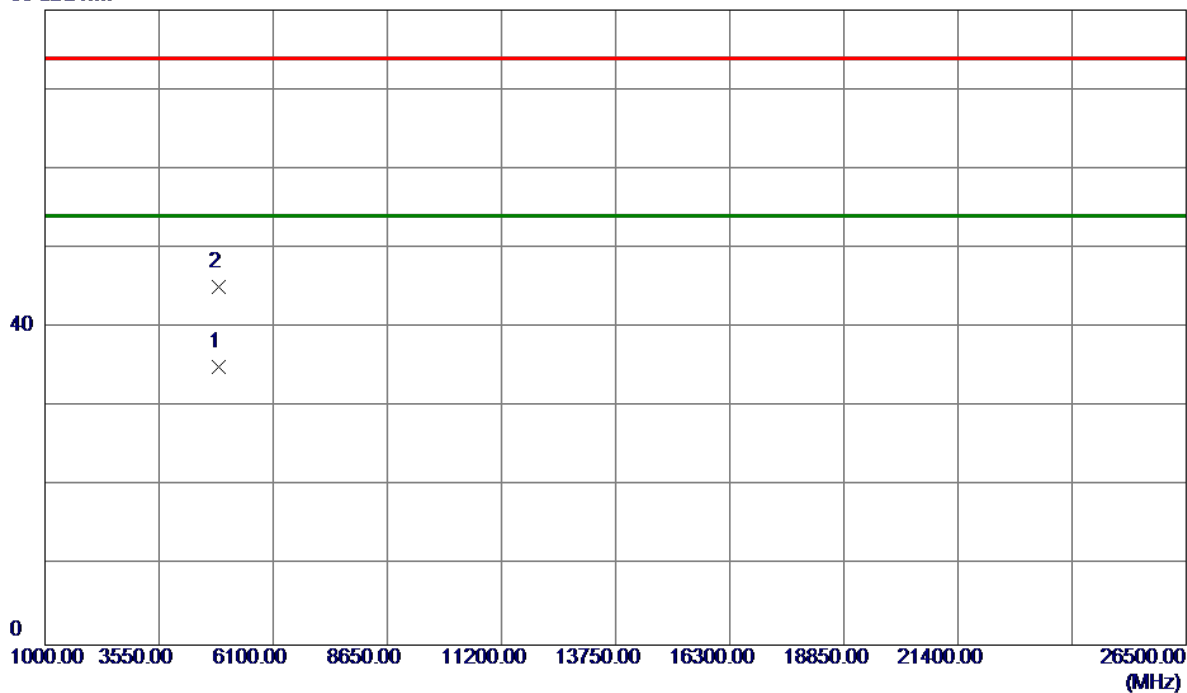


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2431.2000	58.08	33.21	91.29	54.00	37.29	AVG	No Limit
2	2440.5000	67.95	33.25	101.20	74.00	27.20	Peak	No Limit

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

Horizontal

80 dBuV/m

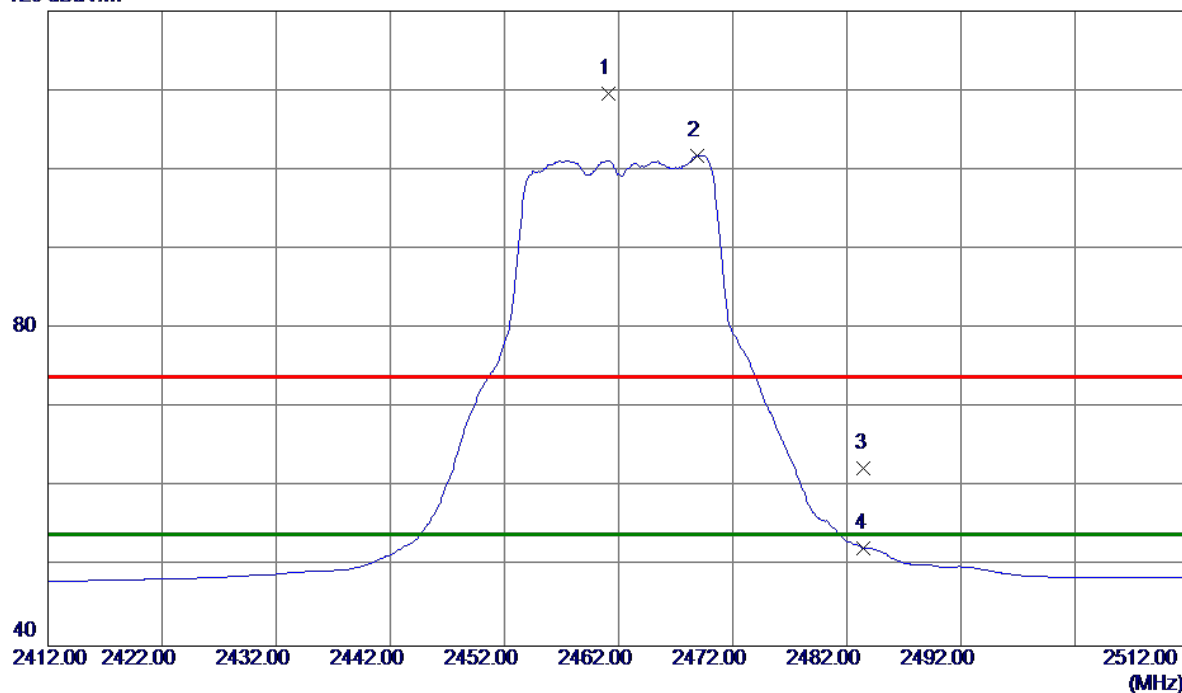


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4872.3000	28.20	6.83	35.03	54.00	-18.97	AVG	
2	4878.7000	38.30	6.85	45.15	74.00	-28.85	Peak	

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

Vertical

120 dBuV/m

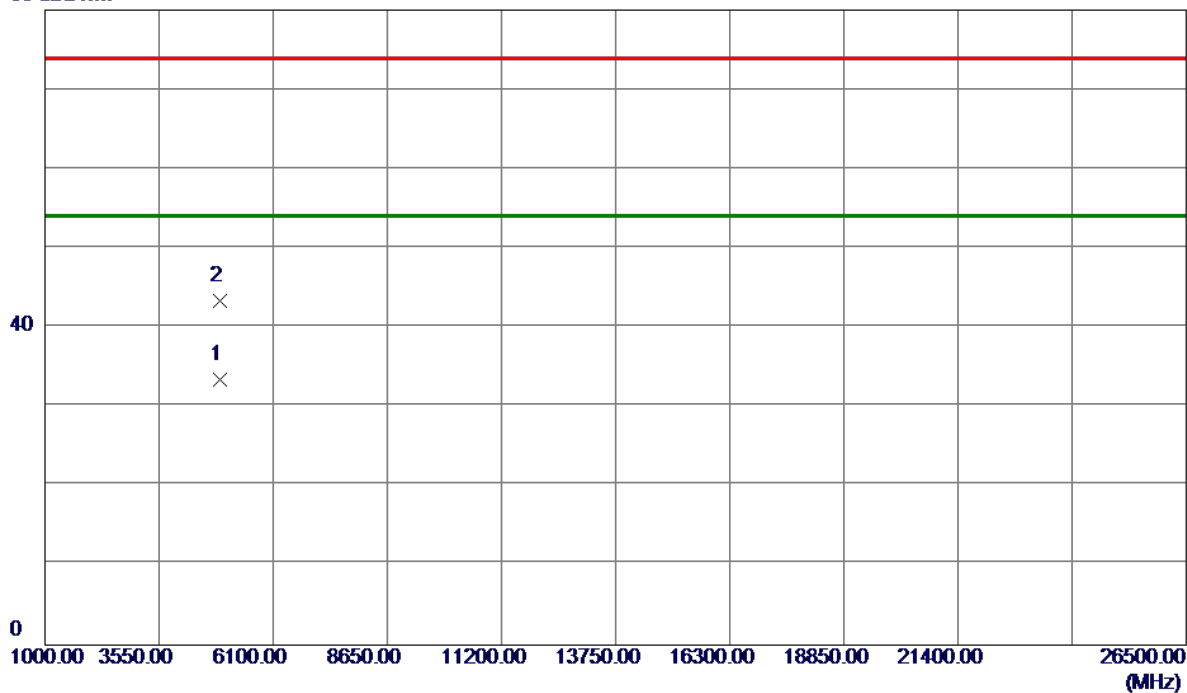


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1000	76.25	33.32	109.57	74.00	35.57	Peak	No Limit
2 *	2468.9000	68.49	33.35	101.84	54.00	47.84	AVG	No Limit
3	2483.5000	29.02	33.41	62.43	74.00	-11.57	Peak	
4	2483.5000	18.87	33.41	52.28	54.00	-1.72	AVG	

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

Vertical

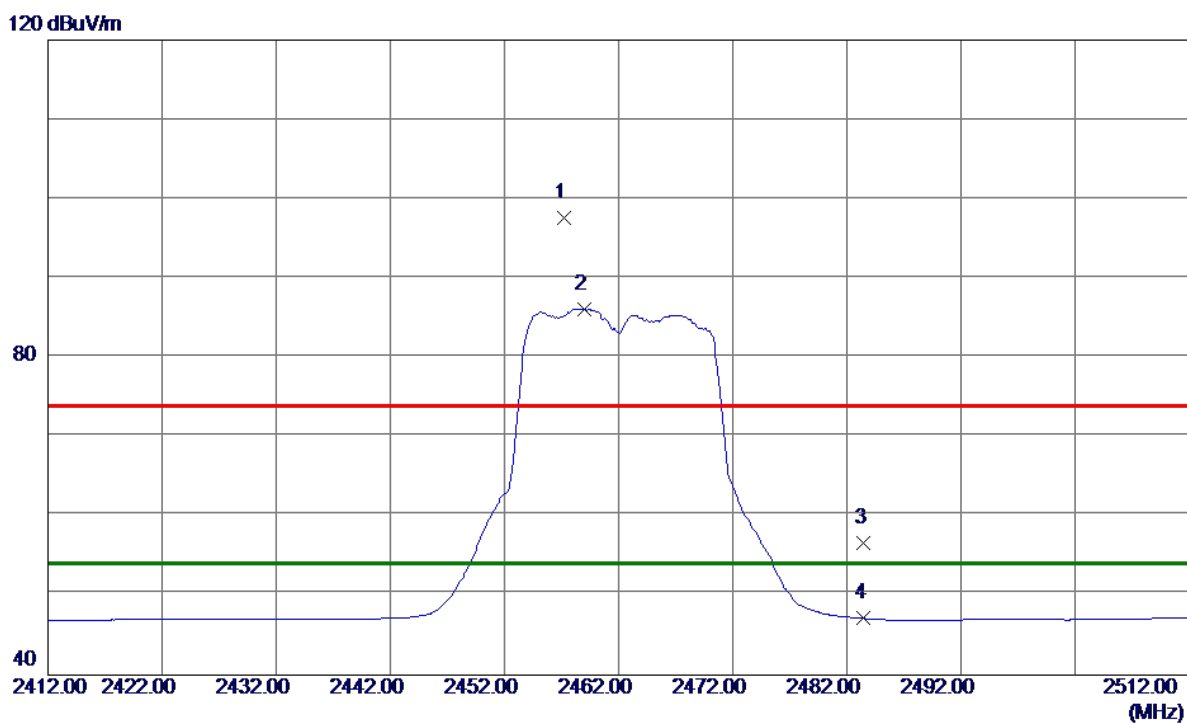
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4916.9000	26.48	6.99	33.47	54.00	-20.53	AVG	
2	4919.3000	36.33	7.00	43.33	74.00	-30.67	Peak	

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

Horizontal

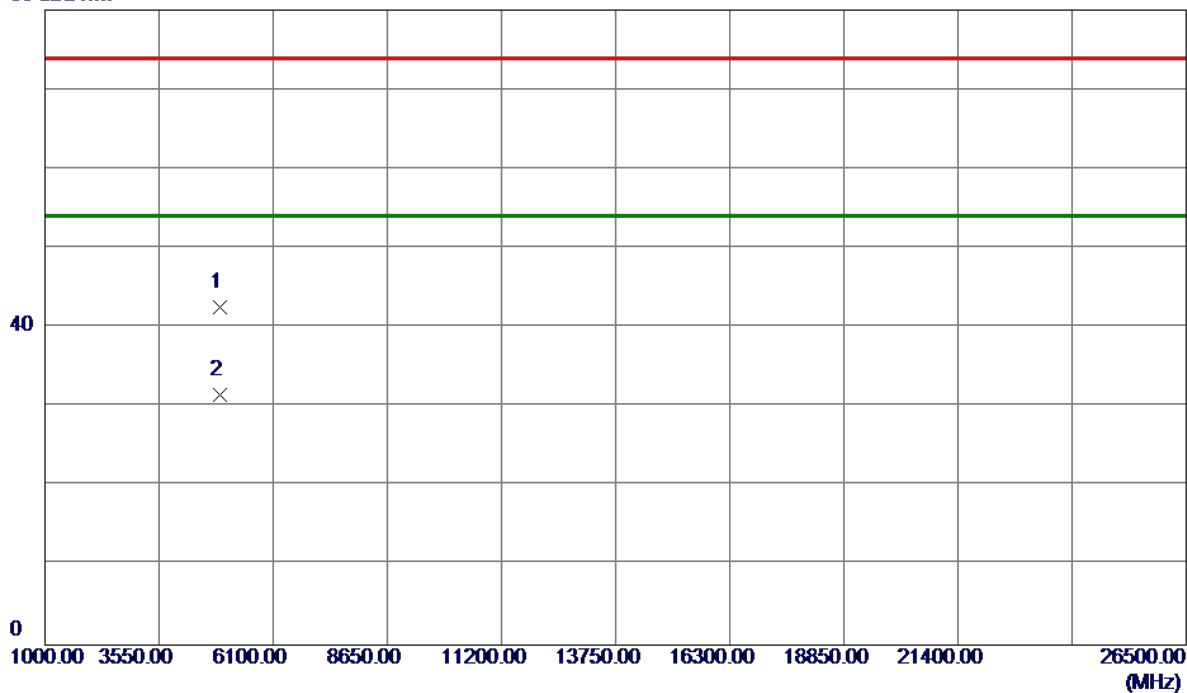


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.2000	64.24	33.31	97.55	74.00	23.55	Peak	No Limit
2 *	2459.0000	52.78	33.32	86.10	54.00	32.10	AVG	No Limit
3	2483.5000	23.28	33.41	56.69	74.00	-17.31	Peak	
4	2483.5000	13.73	33.41	47.14	54.00	-6.86	AVG	

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

Horizontal

80 dBuV/m

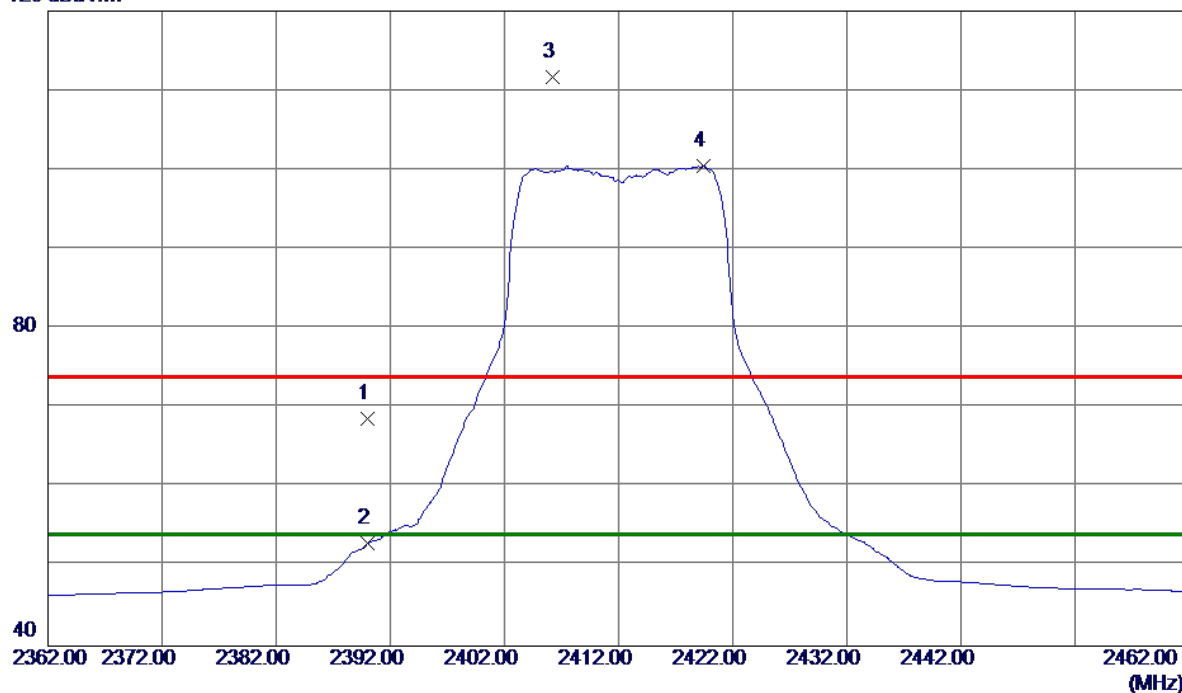


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4912.8000	35.62	6.98	42.60	74.00	-31.40	Peak	
2 *	4916.0000	24.52	6.99	31.51	54.00	-22.49	AVG	

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

Vertical

120 dBuV/m

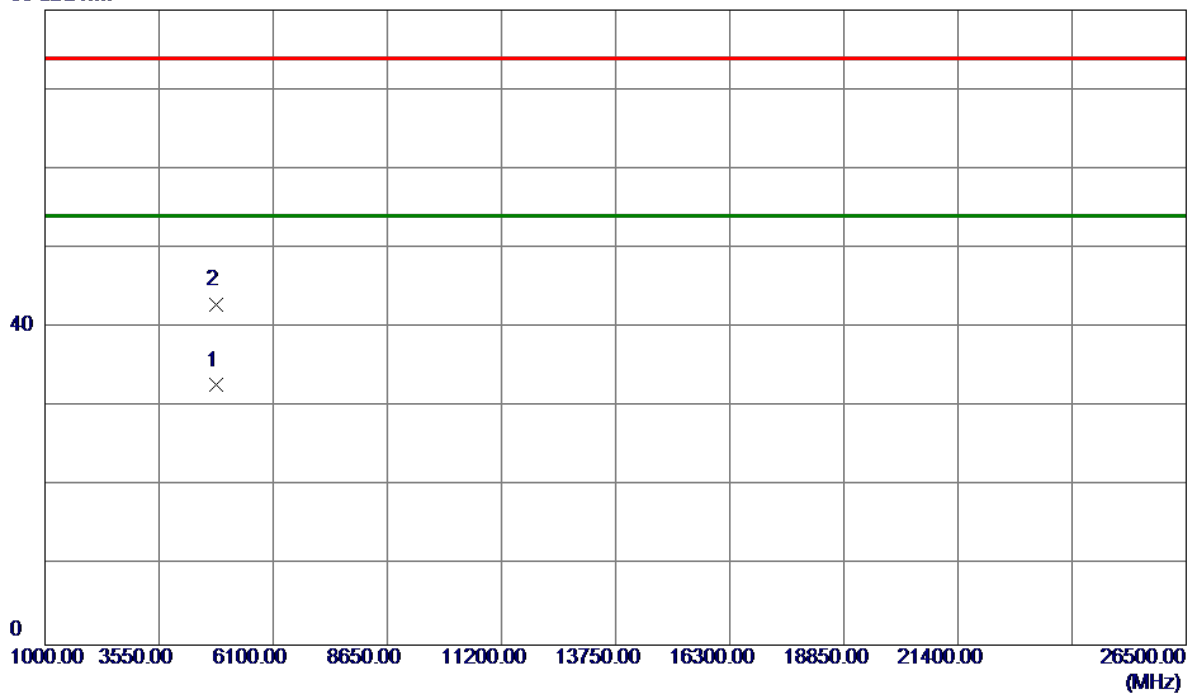


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.51	33.06	68.57	74.00	-5.43	Peak	
2	2390.0000	19.83	33.06	52.89	54.00	-1.11	AVG	
3	2406.2000	78.54	33.12	111.66	74.00	37.66	Peak	No Limit
4 *	2419.4000	67.26	33.17	100.43	54.00	46.43	AVG	No Limit

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

Vertical

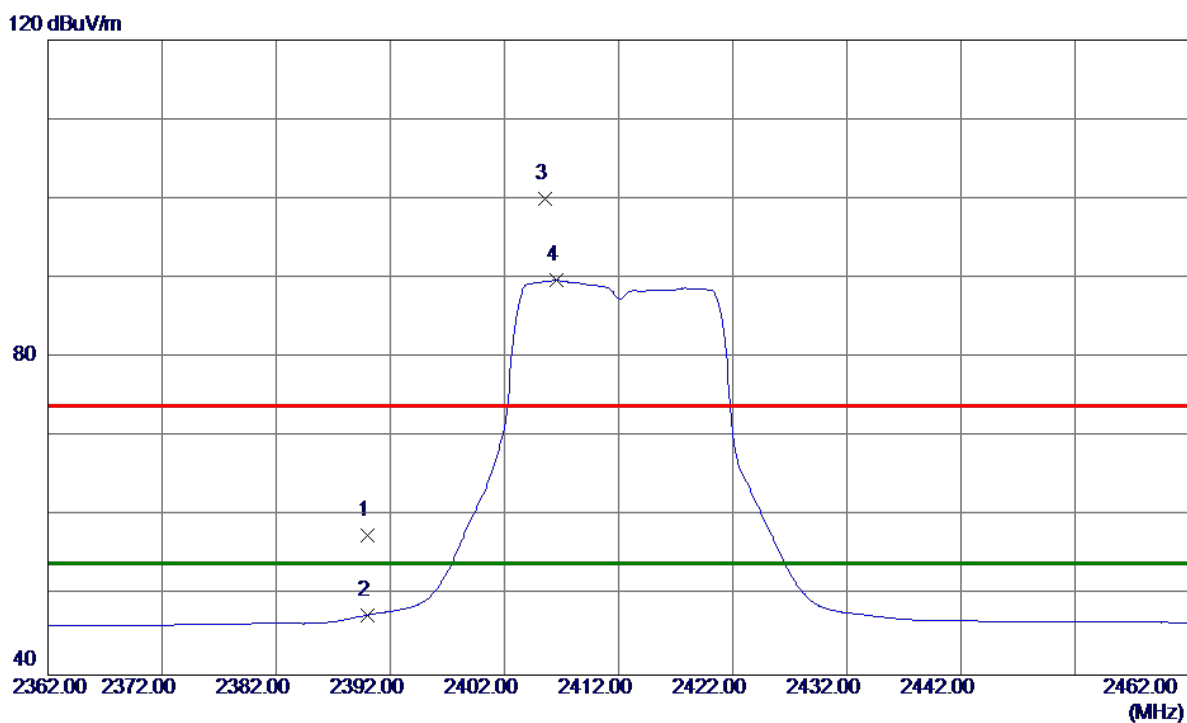
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.2500	26.06	6.66	32.72	54.00	-21.28	AVG	
2	4827.9000	36.21	6.67	42.88	74.00	-31.12	Peak	

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

Horizontal

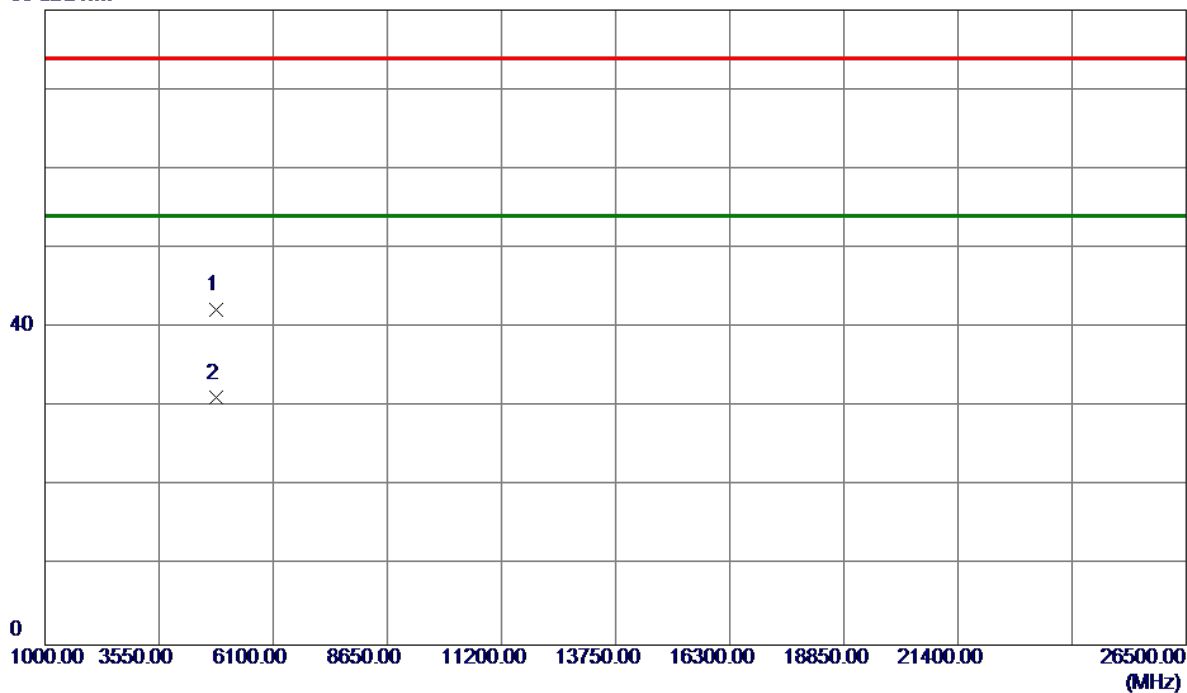


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.61	33.06	57.67	74.00	-16.33	Peak	
2	2390.0000	14.50	33.06	47.56	54.00	-6.44	AVG	
3	2405.6000	66.95	33.11	100.06	74.00	26.06	Peak	No Limit
4 *	2406.6000	56.59	33.12	89.71	54.00	35.71	AVG	No Limit

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

Horizontal

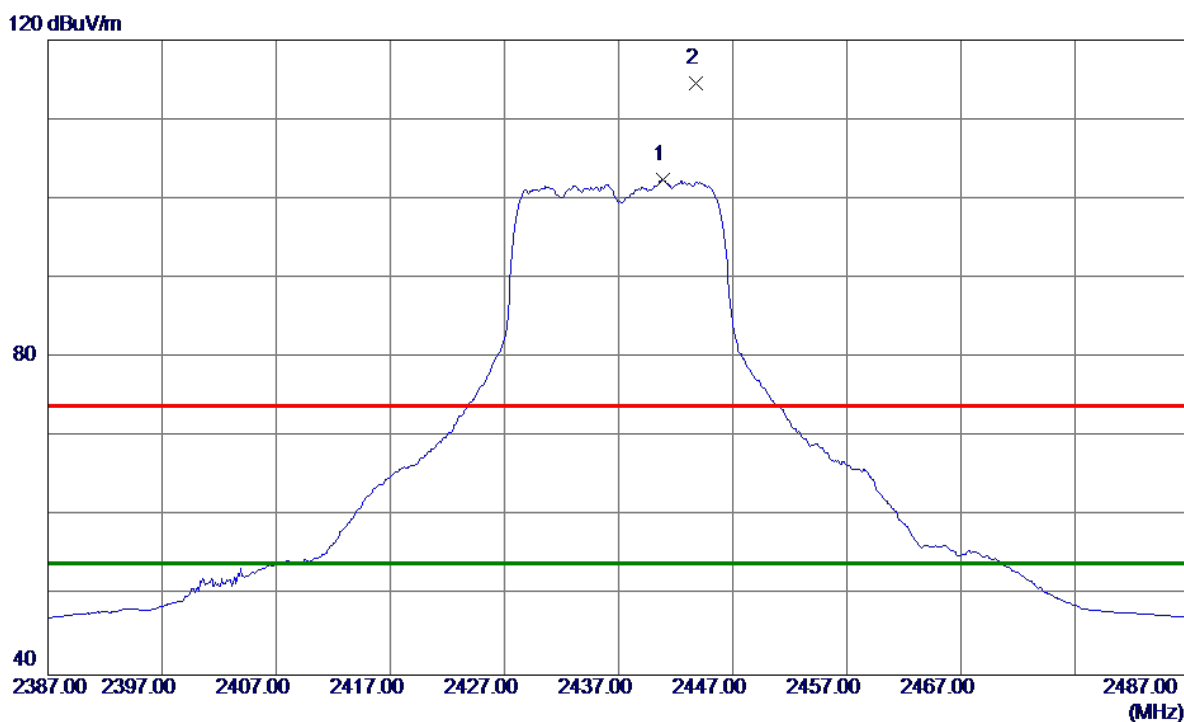
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4813.6500	35.66	6.62	42.28	74.00	-31.72	Peak	
2 *	4819.9000	24.48	6.64	31.12	54.00	-22.88	AVG	

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

Vertical

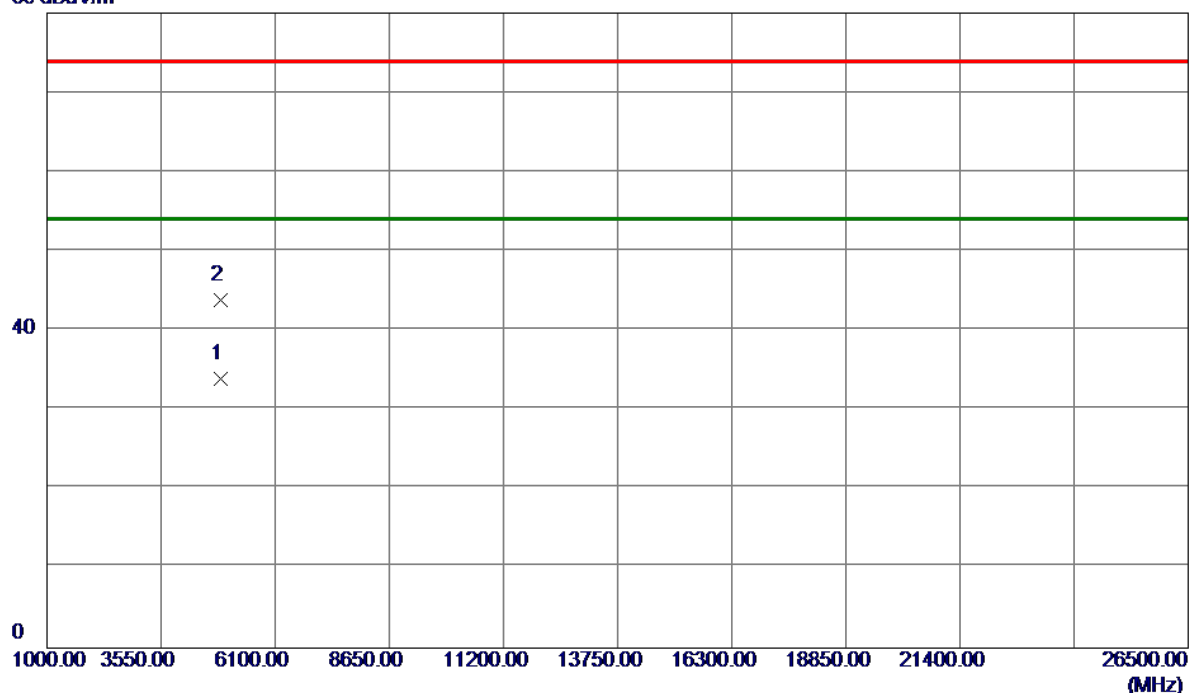


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2440.9000	69.11	33.25	102.36	54.00	48.36	AVG	No Limit
2	2443.8000	81.23	33.26	114.49	74.00	40.49	Peak	No Limit

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

Vertical

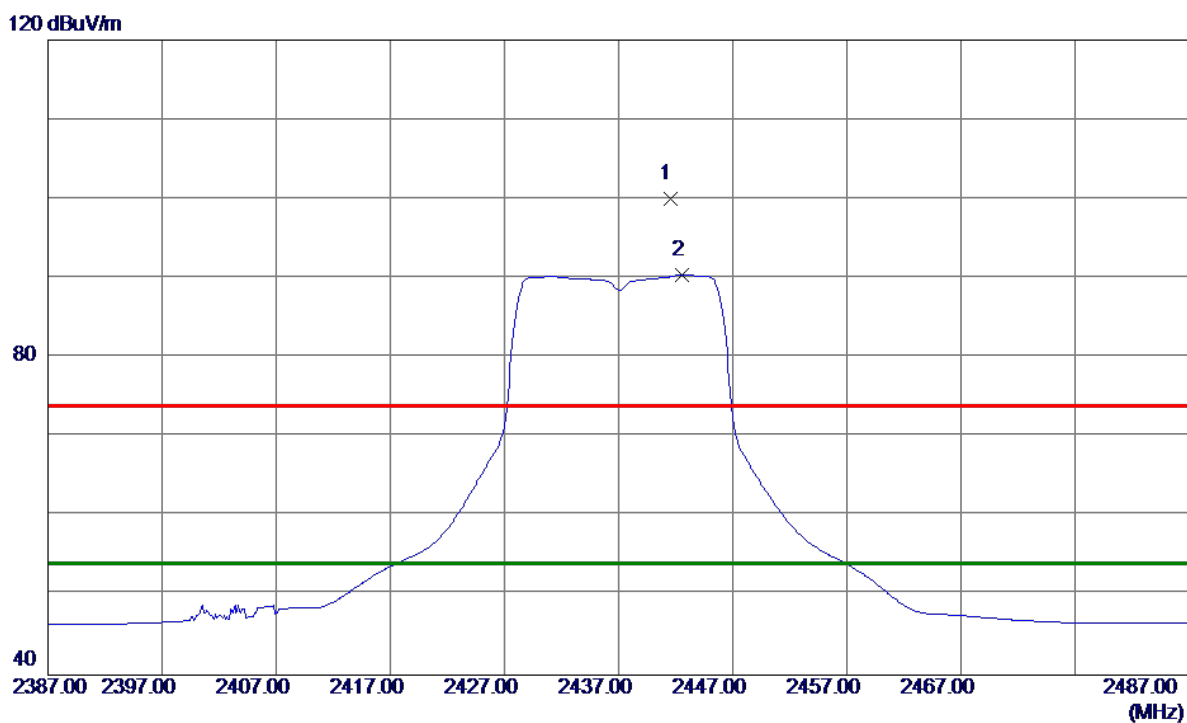
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.2000	27.05	6.84	33.89	54.00	-20.11	AVG	
2	4874.7500	37.02	6.84	43.86	74.00	-30.14	Peak	

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

Horizontal

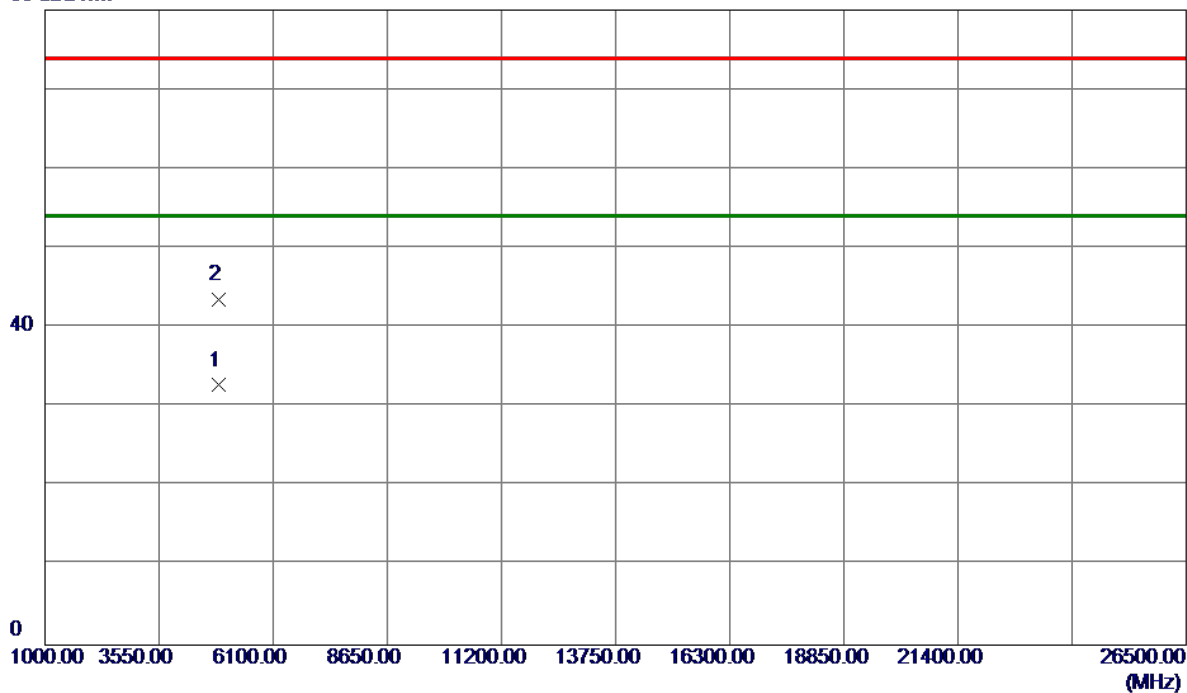


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2441.5000	66.81	33.25	100.06	74.00	26.06	Peak	No Limit
2 *	2442.6000	57.18	33.25	90.43	54.00	36.43	AVG	No Limit

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

Horizontal

80 dBuV/m

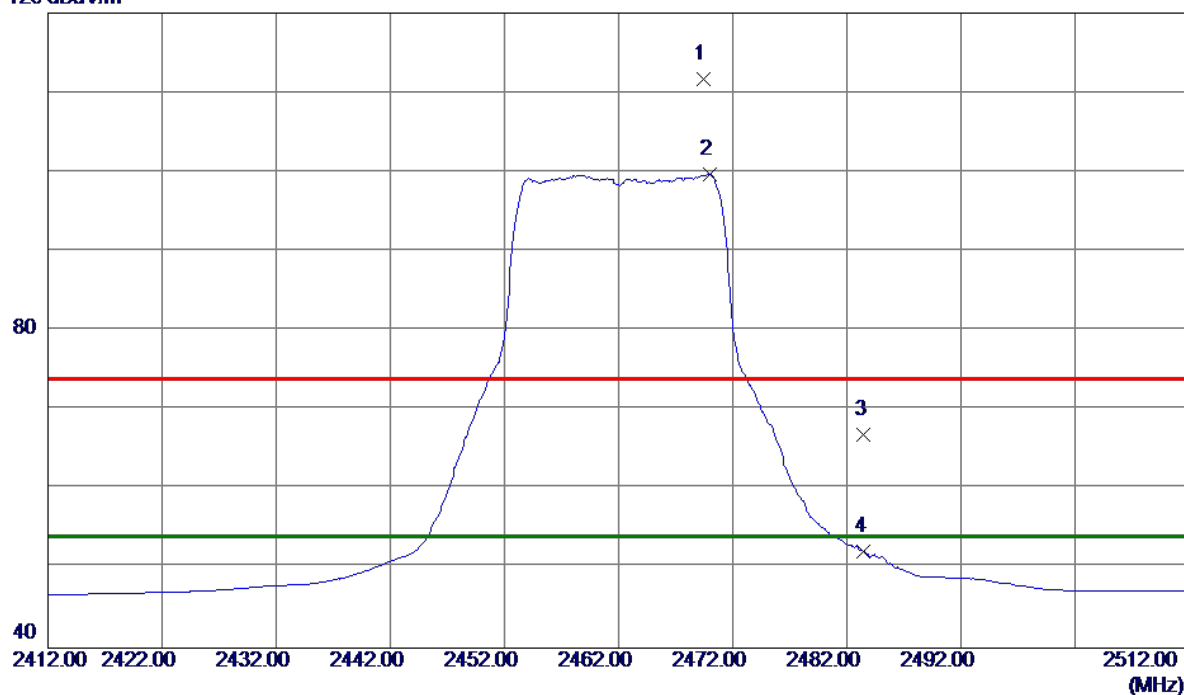


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4875.5000	25.88	6.84	32.72	54.00	-21.28	AVG	
2	4879.5000	36.63	6.86	43.49	74.00	-30.51	Peak	

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

Vertical

120 dBuV/m

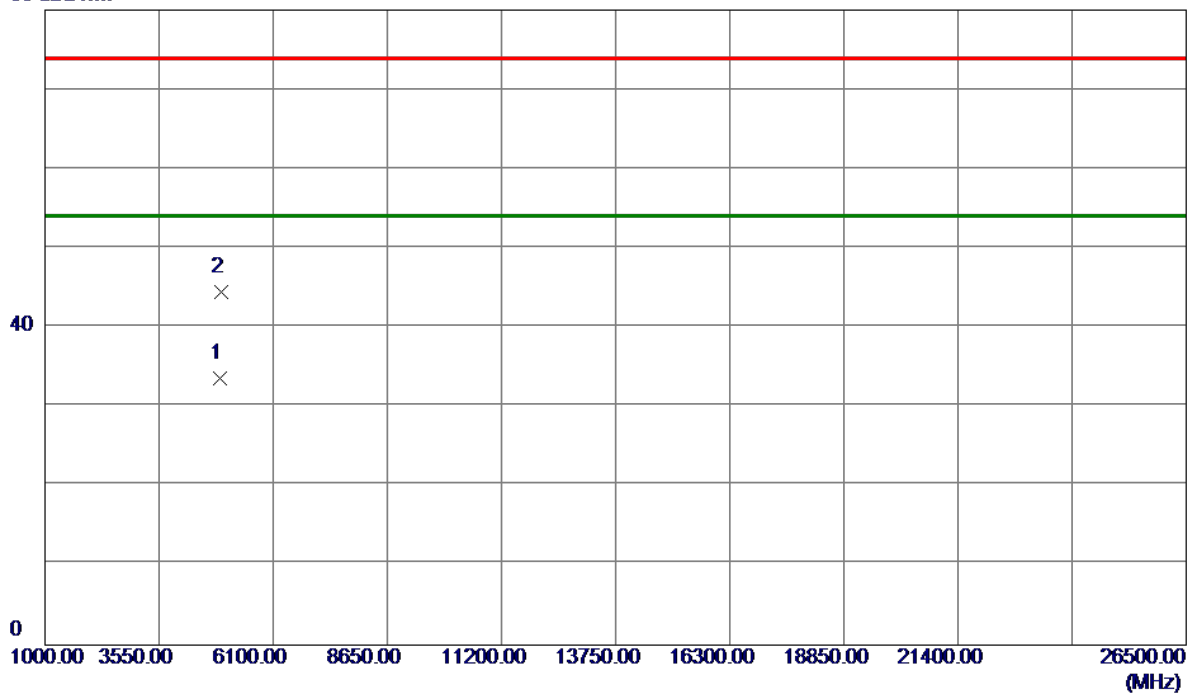


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2469.4000	78.36	33.35	111.71	74.00	37.71	Peak	No Limit
2 *	2470.0000	66.36	33.36	99.72	54.00	45.72	AVG	No Limit
3	2483.5000	33.54	33.41	66.95	74.00	-7.05	Peak	
4	2483.5000	18.70	33.41	52.11	54.00	-1.89	AVG	

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

Vertical

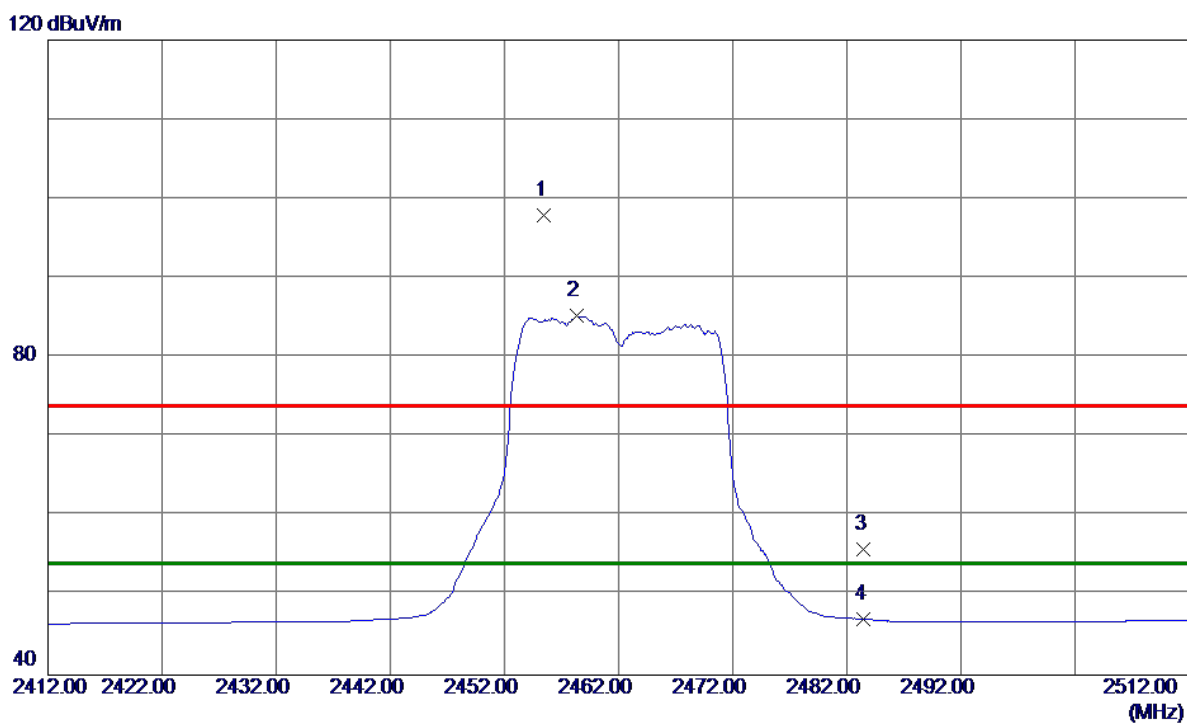
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.4500	26.57	7.01	33.58	54.00	-20.42	AVG	
2	4926.9000	37.38	7.03	44.41	74.00	-29.59	Peak	

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

Horizontal

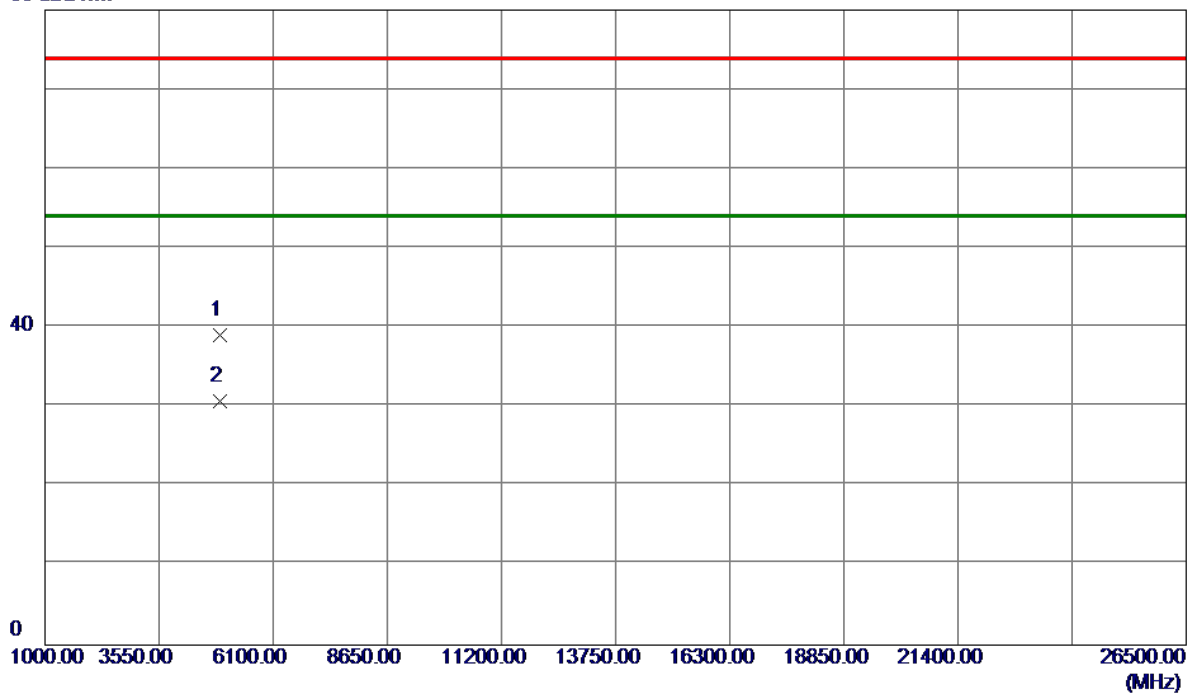


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.5000	64.69	33.30	97.99	74.00	23.99	Peak	No Limit
2 *	2458.3000	51.90	33.31	85.21	54.00	31.21	AVG	No Limit
3	2483.5000	22.38	33.41	55.79	74.00	-18.21	Peak	
4	2483.5000	13.64	33.41	47.05	54.00	-6.95	AVG	

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

Horizontal

80 dBuV/m

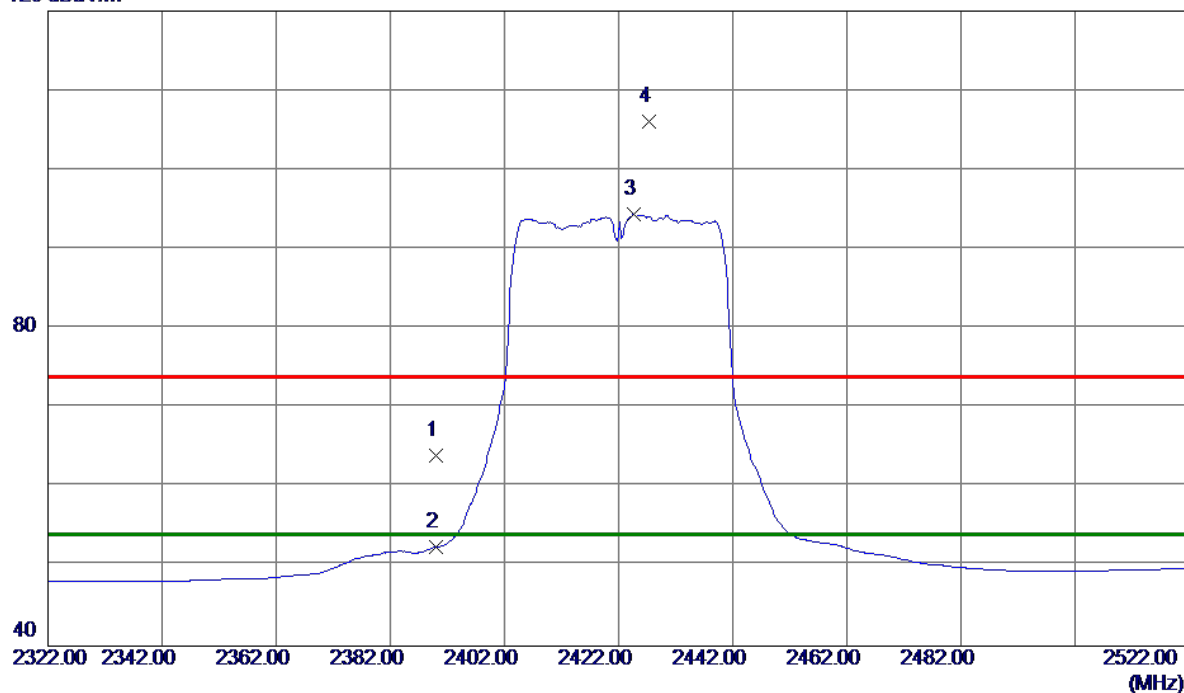


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.7500	32.07	7.01	39.08	74.00	-34.92	Peak	
2 *	4922.7500	23.72	7.01	30.73	54.00	-23.27	AVG	

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

Vertical

120 dBuV/m

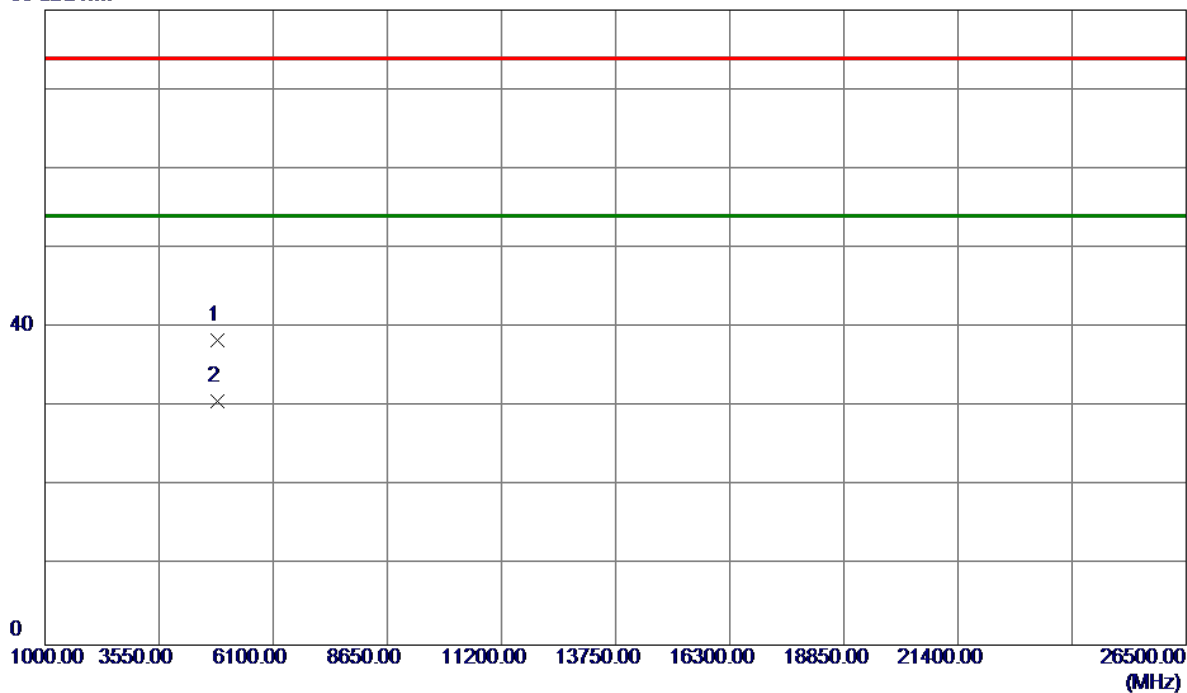


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.98	33.06	64.04	74.00	-9.96	Peak	
2	2390.0000	19.36	33.06	52.42	54.00	-1.58	AVG	
3 *	2424.6000	61.14	33.19	94.33	54.00	40.33	AVG	No Limit
4	2427.4000	72.86	33.20	106.06	74.00	32.06	Peak	No Limit

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

Vertical

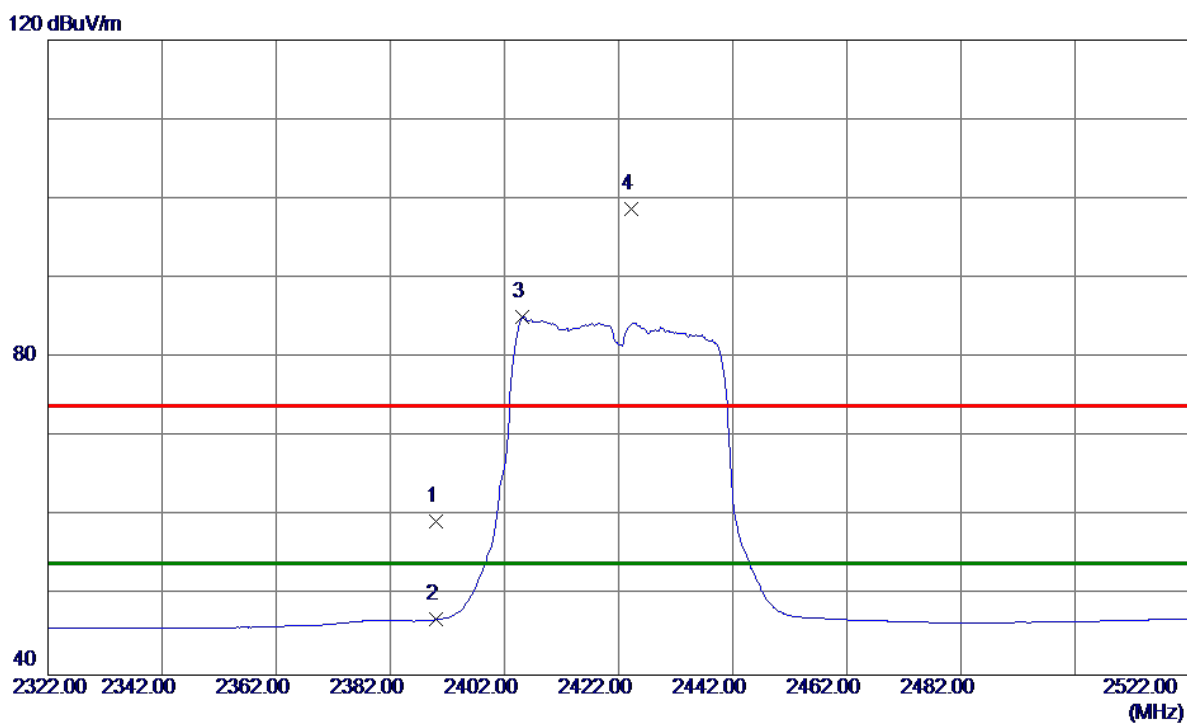
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.1000	31.71	6.73	38.44	74.00	-35.56	Peak	
2 *	4844.1000	24.02	6.73	30.75	54.00	-23.25	AVG	

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

Horizontal

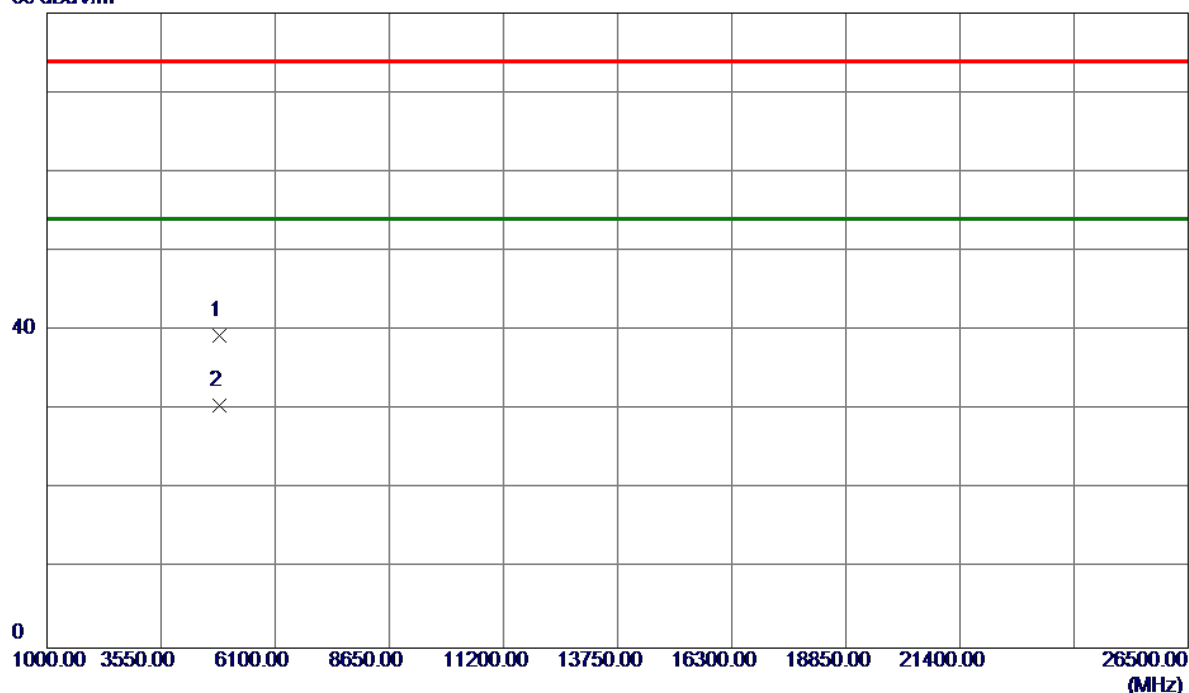


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.24	33.06	59.30	74.00	-14.70	Peak	
2	2390.0000	13.94	33.06	47.00	54.00	-7.00	AVG	
3 *	2405.2000	52.00	33.11	85.11	54.00	31.11	AVG	No Limit
4	2424.2000	65.58	33.18	98.76	74.00	24.76	Peak	No Limit

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

Horizontal

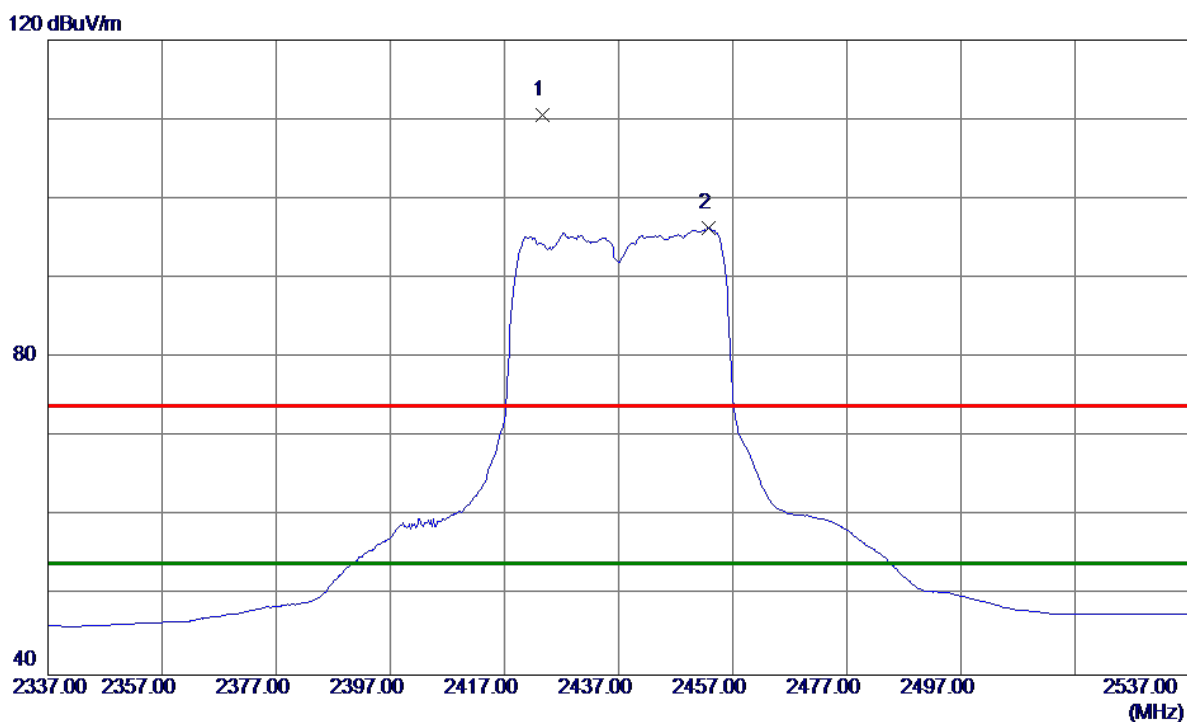
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.7000	32.63	6.73	39.36	74.00	-34.64	Peak	
2 *	4843.7000	23.80	6.73	30.53	54.00	-23.47	AVG	

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

Vertical

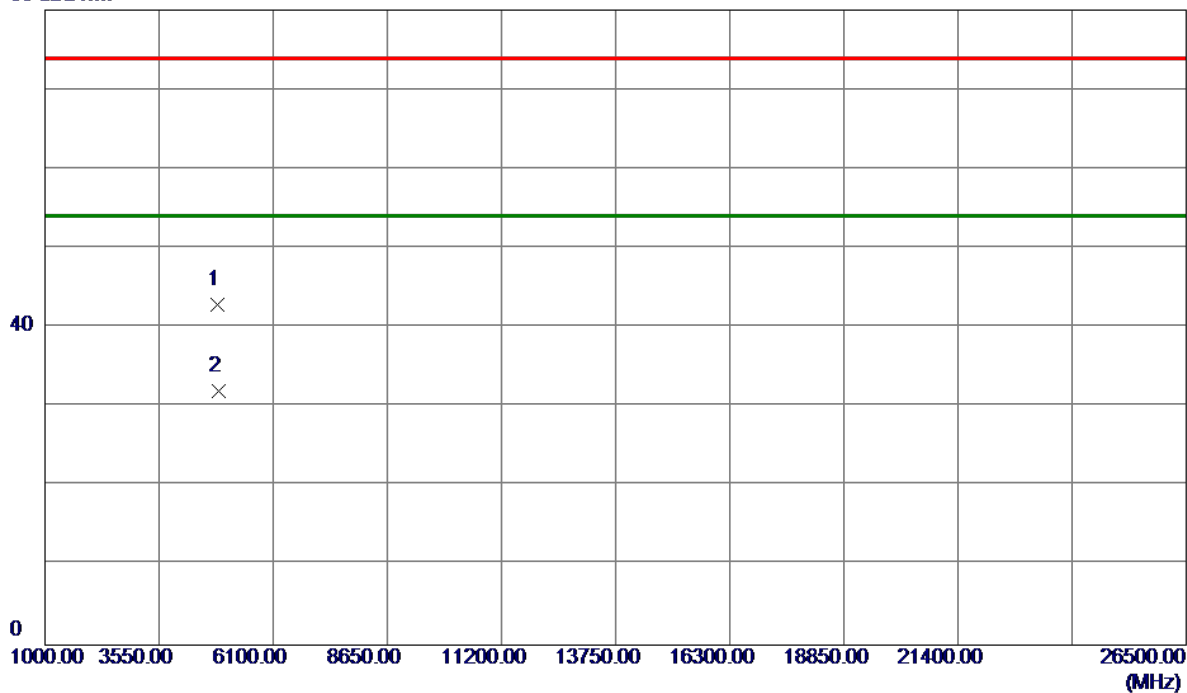


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2423.6000	77.31	33.18	110.49	74.00	36.49	Peak	No Limit
2 *	2452.8000	63.00	33.29	96.29	54.00	42.29	AVG	No Limit

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

Vertical

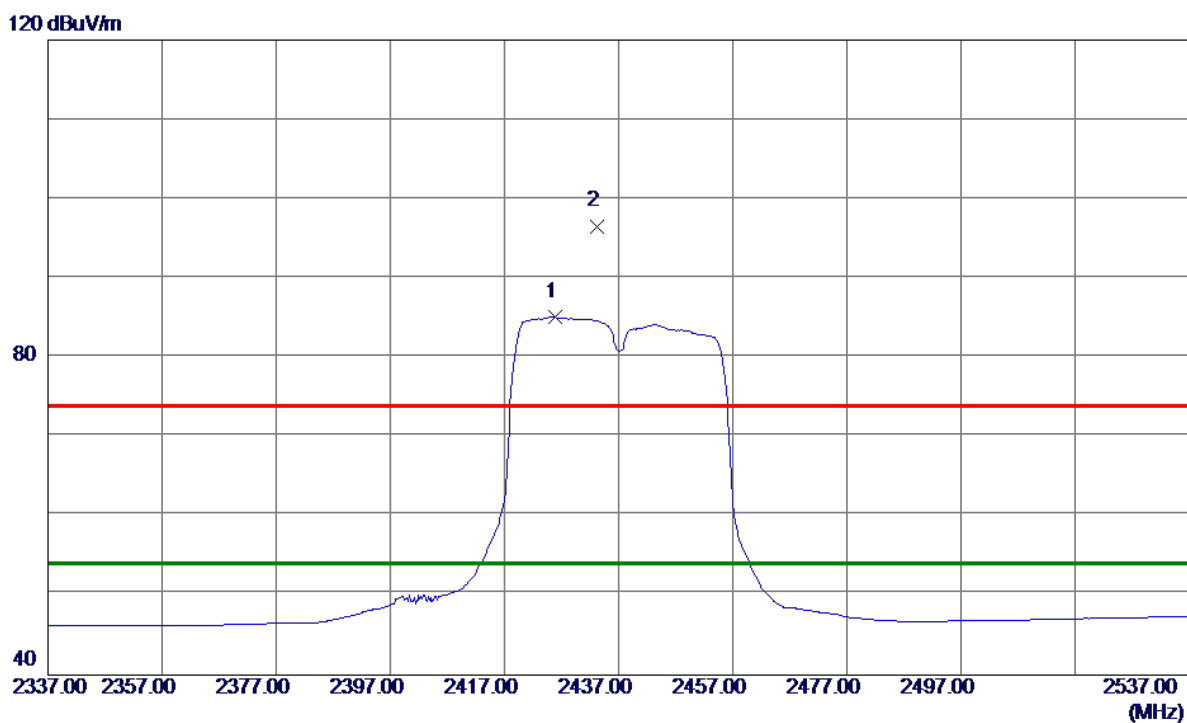
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4866.0000	36.01	6.81	42.82	74.00	-31.18	Peak	
2 *	4873.2000	25.22	6.83	32.05	54.00	-21.95	AVG	

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

Horizontal

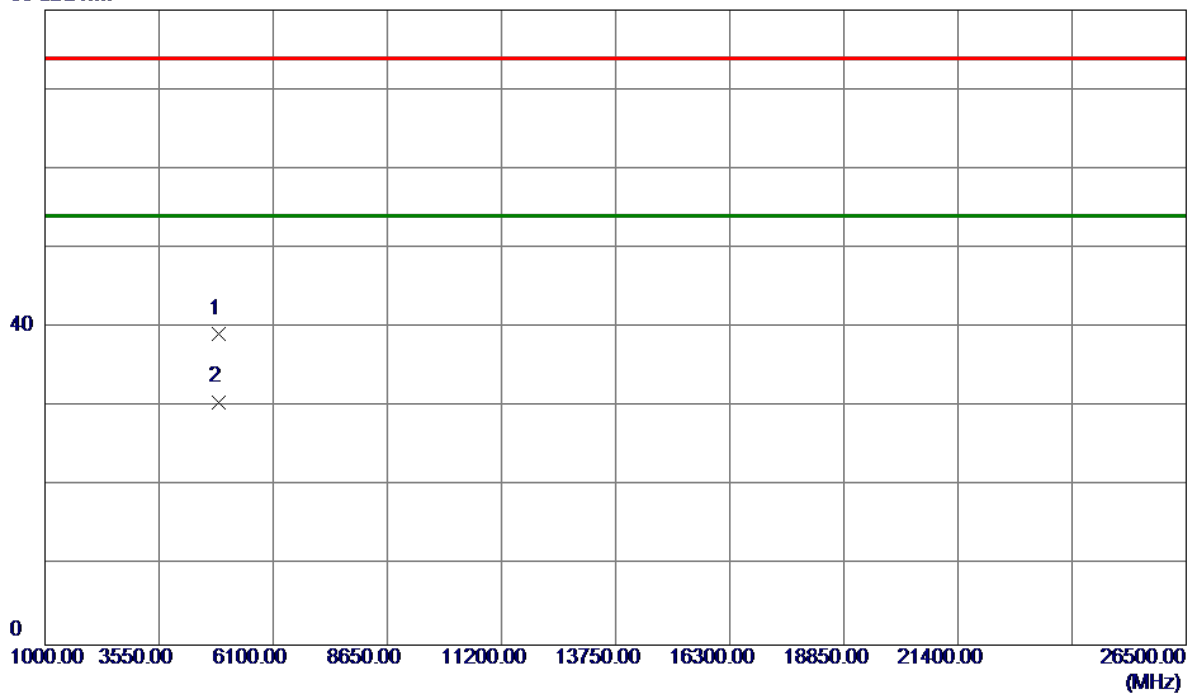


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2425.8000	51.94	33.19	85.13	54.00	31.13	AVG	No Limit
2	2433.2000	63.34	33.22	96.56	74.00	22.56	Peak	No Limit

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

Horizontal

80 dBuV/m

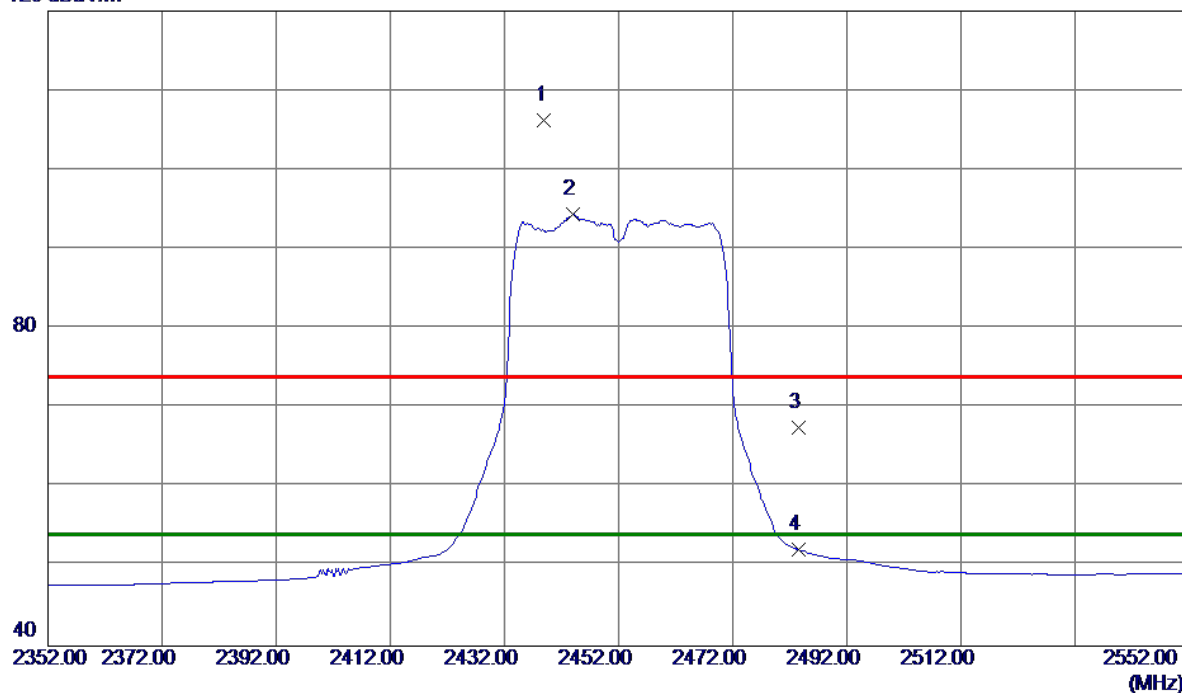


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.7000	32.34	6.84	39.18	74.00	-34.82	Peak	
2 *	4874.7000	23.80	6.84	30.64	54.00	-23.36	AVG	

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

Vertical

120 dBuV/m

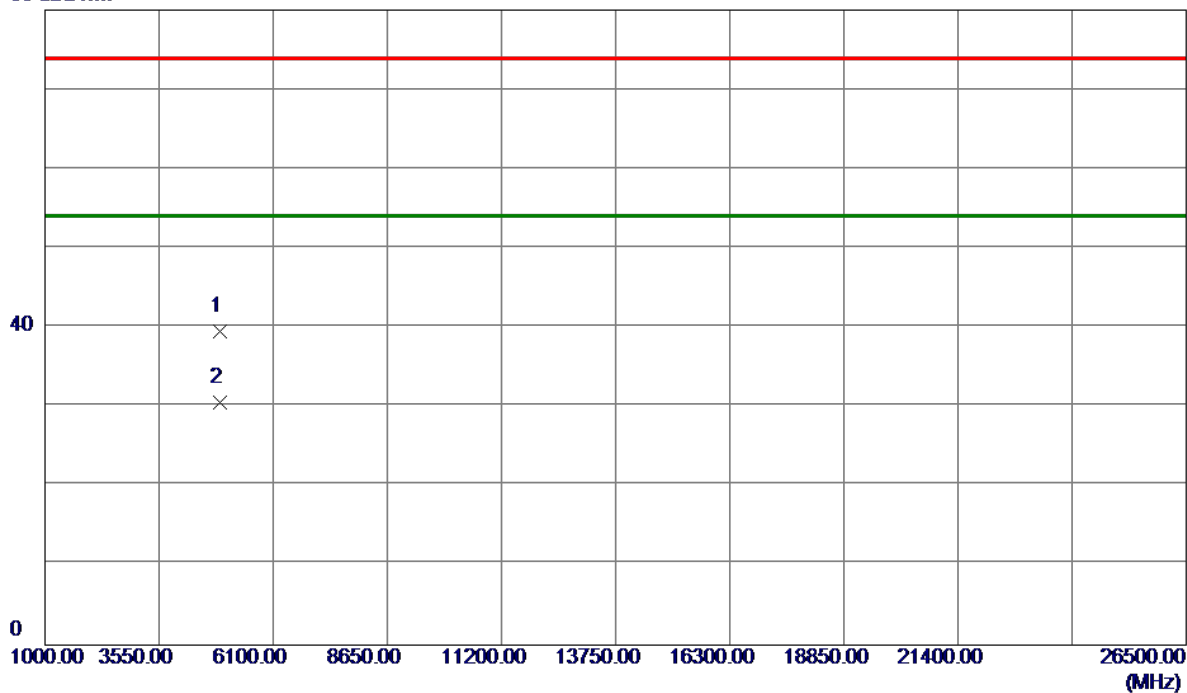


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.0000	73.08	33.24	106.32	74.00	32.32	Peak	No Limit
2 *	2444.0000	61.17	33.26	94.43	54.00	40.43	AVG	No Limit
3	2483.5000	34.13	33.41	67.54	74.00	-6.46	Peak	
4	2483.5000	18.71	33.41	52.12	54.00	-1.88	AVG	

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

Vertical

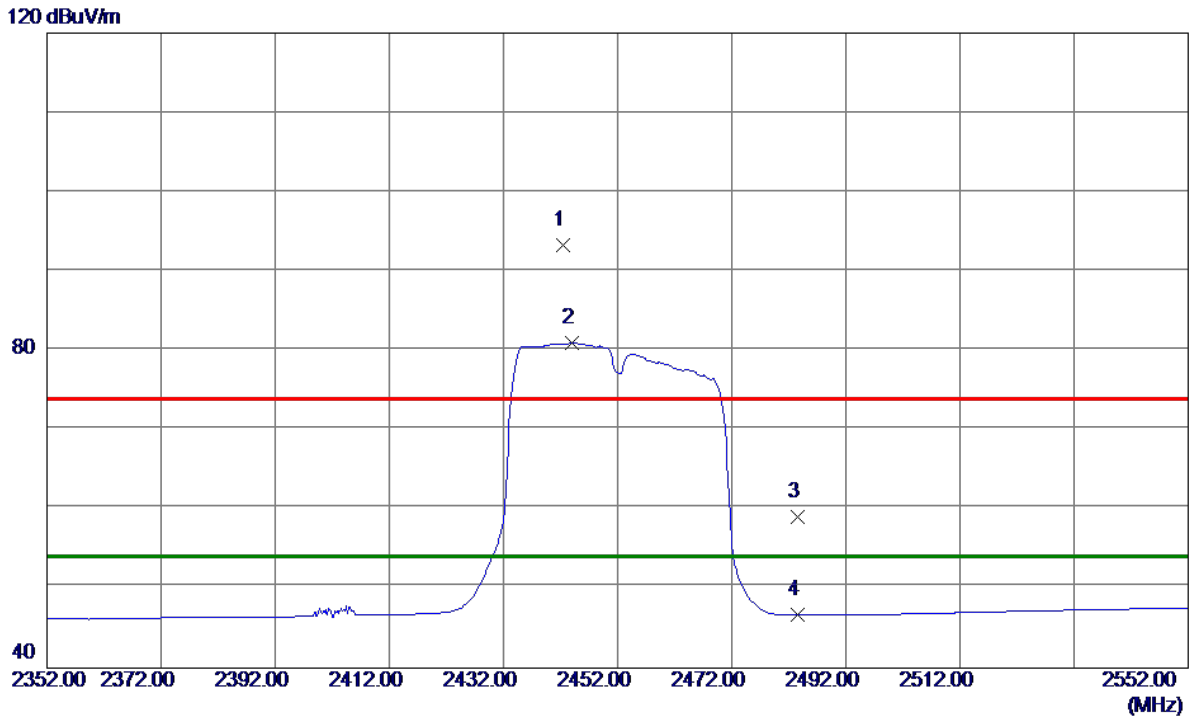
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4909.4000	32.55	6.96	39.51	74.00	-34.49	Peak	
2 *	4909.4000	23.66	6.96	30.62	54.00	-23.38	AVG	

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

Horizontal

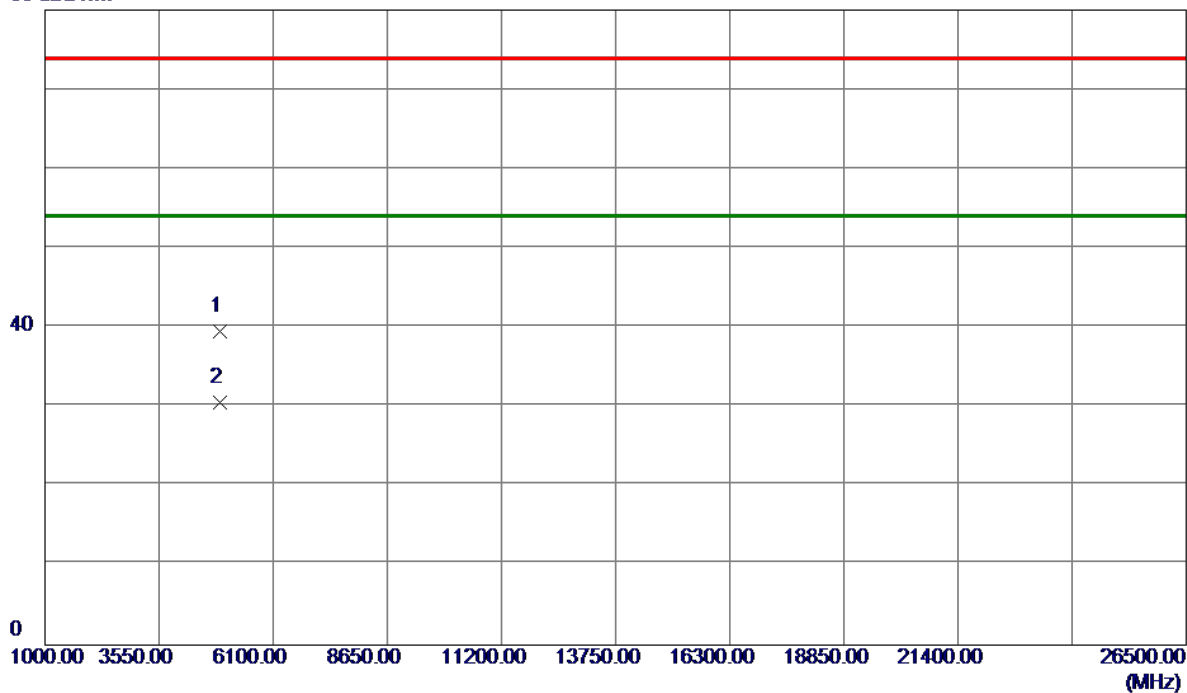


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.4000	60.09	33.25	93.34	74.00	19.34	Peak	No Limit
2 *	2444.0000	47.68	33.26	80.94	54.00	26.94	AVG	No Limit
3	2483.5000	25.70	33.41	59.11	74.00	-14.89	Peak	
4	2483.5000	13.29	33.41	46.70	54.00	-7.30	AVG	

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

Horizontal

80 dBuV/m



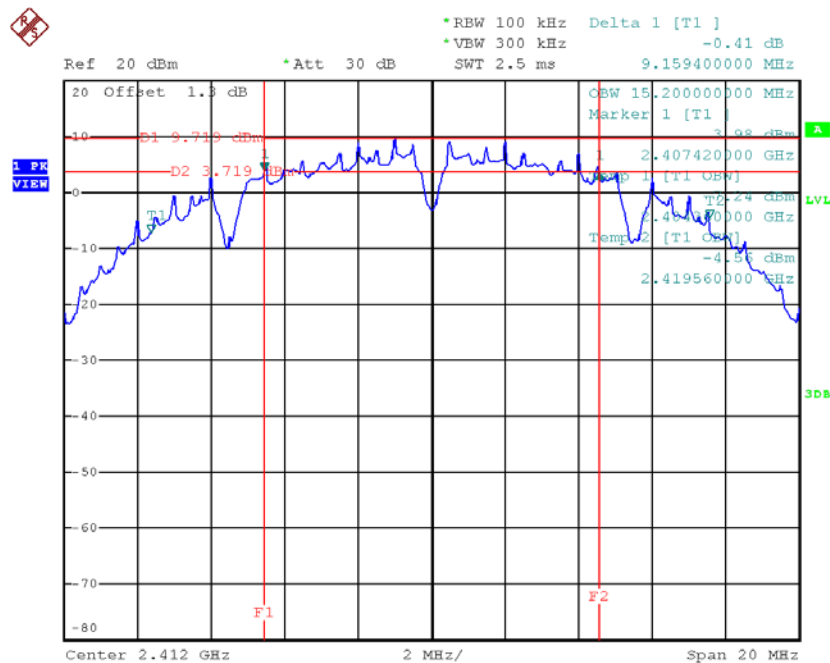
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.1000	32.50	6.95	39.45	74.00	-34.55	Peak	
2 *	4904.1000	23.64	6.95	30.59	54.00	-23.41	AVG	

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

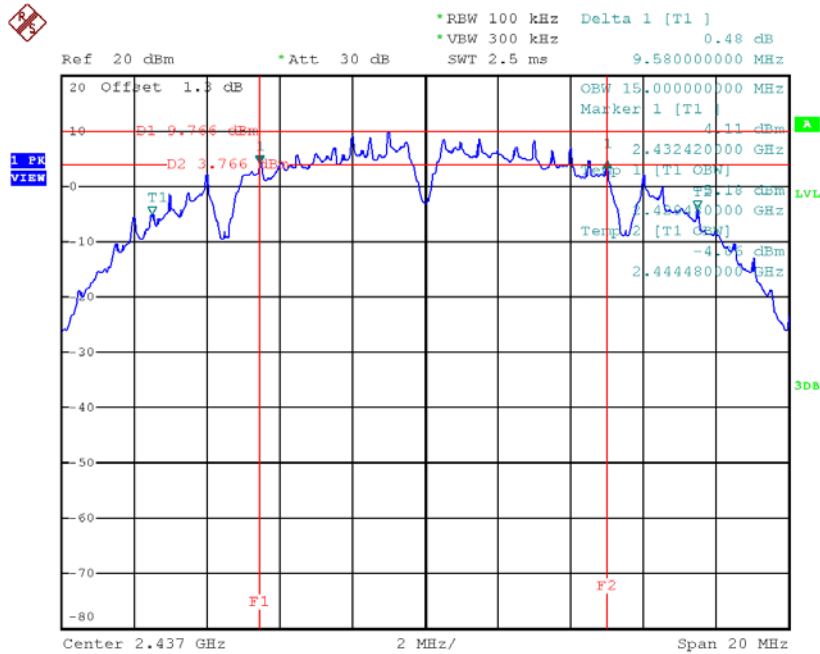
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.16	15.20	500	Complies
2437	9.58	15.00	500	Complies
2462	9.61	14.96	500	Complies

TX CH01



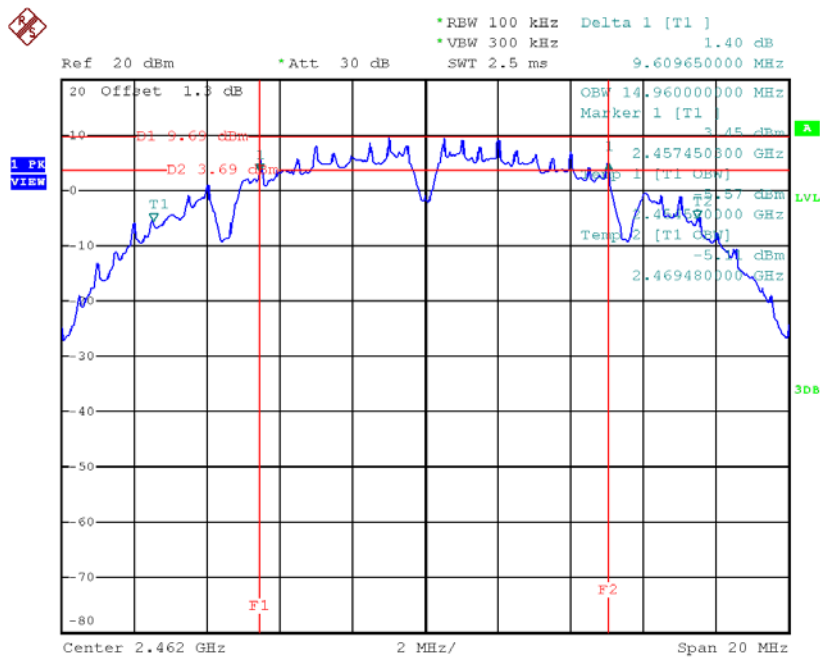
Date: 16.MAR.2018 13:46:46

TX CH06



Date: 16.MAR.2018 13:48:31

TX CH11

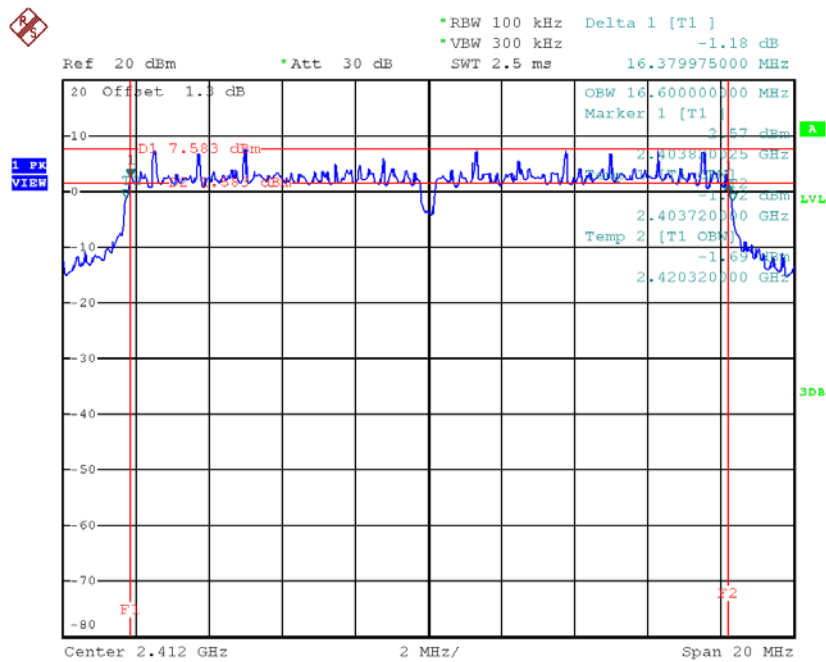


Date: 16.MAR.2018 13:50:20

Test Mode: TX G Mode_CH01/06/11

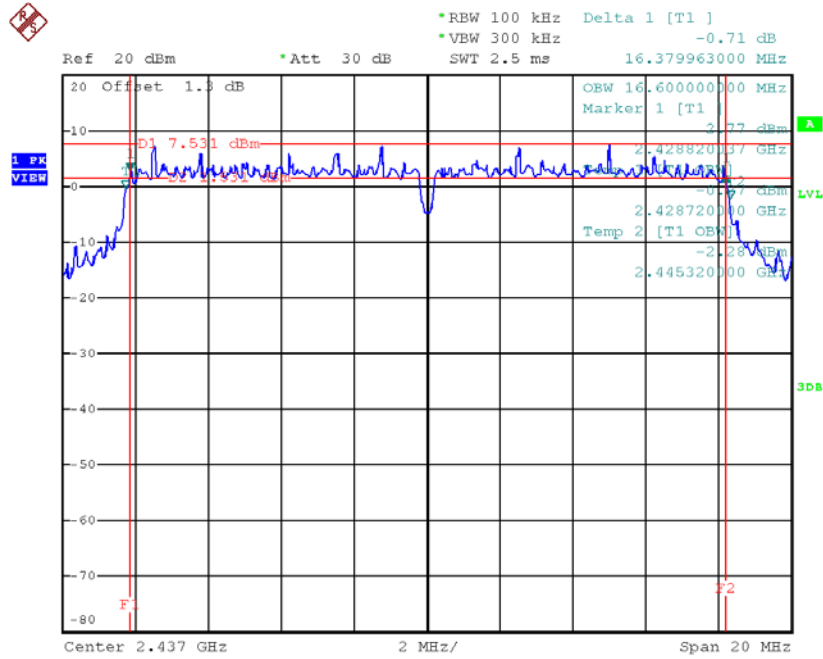
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.38	16.60	500	Complies
2437	16.38	16.60	500	Complies
2462	16.41	16.60	500	Complies

TX CH01



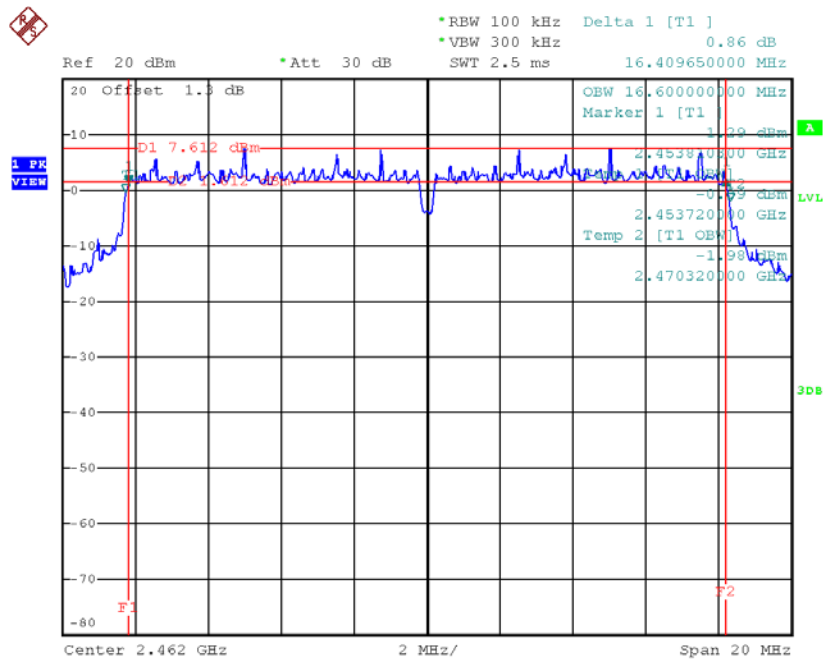
Date: 16.MAR.2018 13:51:48

TX CH06



Date: 16.MAR.2018 13:53:05

TX CH11



Date: 16.MAR.2018 13:54:57

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

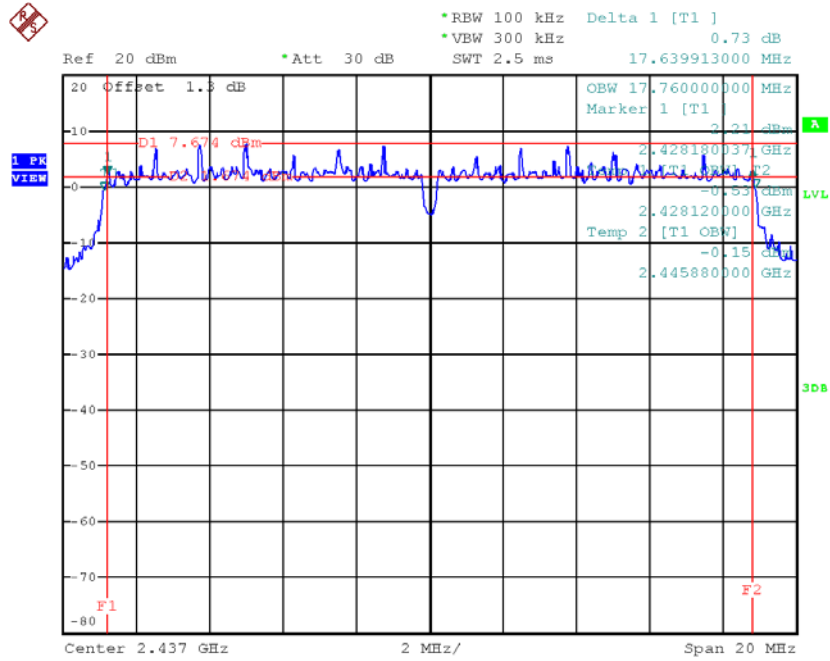
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.76	500	Complies
2437	17.64	17.76	500	Complies
2462	17.64	17.76	500	Complies

TX CH01



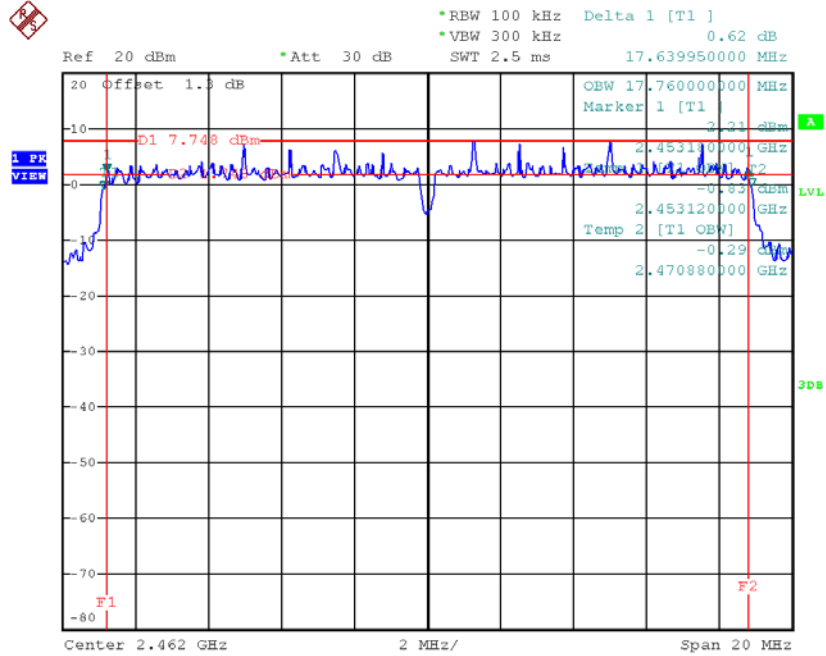
Date: 16.MAR.2018 13:57:43

TX CH06



Date: 16.MAR.2018 13:59:01

TX CH11

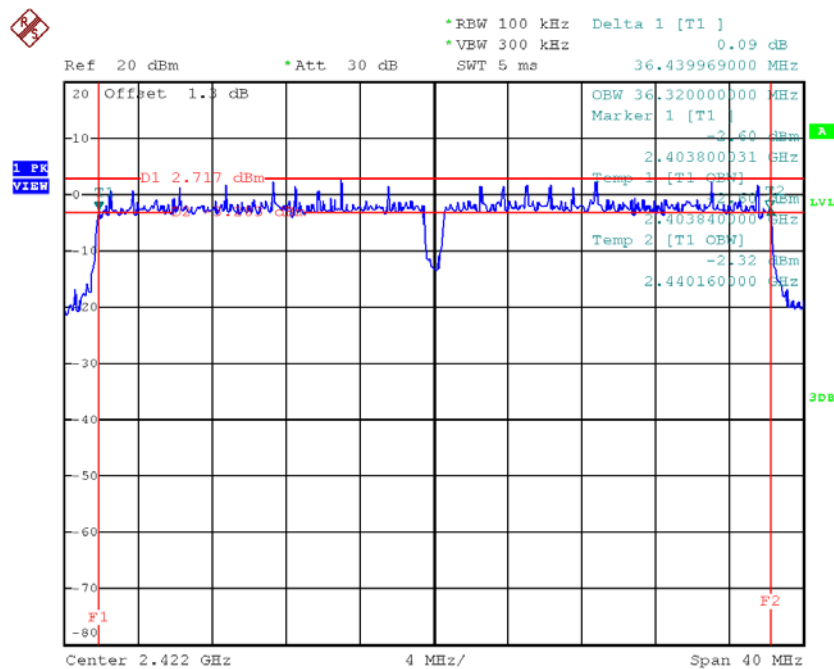


Date: 16.MAR.2018 14:00:37

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

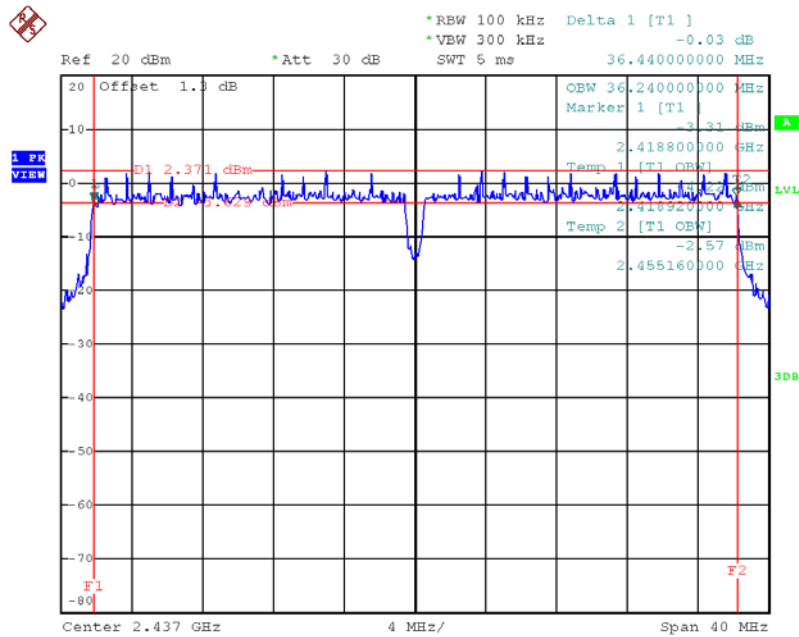
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.44	36.32	500	Complies
2437	36.44	36.24	500	Complies
2452	36.44	36.24	500	Complies

TX CH03



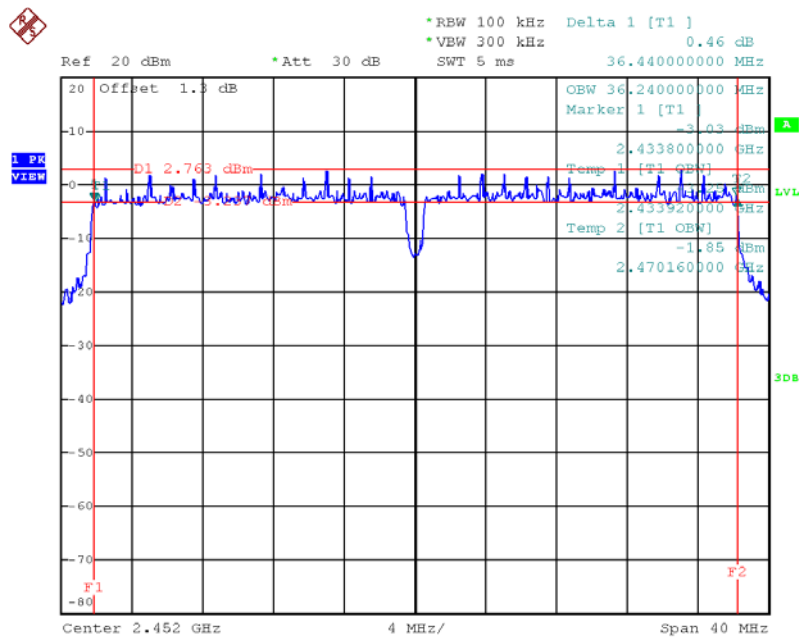
Date: 16.MAR.2018 14:02:11

TX CH06



Date: 16.MAR.2018 14:03:55

TX CH09



Date: 16.MAR.2018 14:05:18

APPENDIX 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	18.26	0.07	29.89	0.97	Complies
2437	20.56	0.11	29.89	0.97	Complies
2462	18.94	0.08	29.89	0.97	Complies

Test Mode :TX B Mode_CH01/06/11_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.34	0.07	29.89	0.97	Complies
2437	20.74	0.12	29.89	0.97	Complies
2462	19.25	0.08	29.89	0.97	Complies

Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.31	0.14	29.89	0.97	Complies
2437	23.66	0.23	29.89	0.97	Complies
2462	22.11	0.16	29.89	0.97	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	22.43	0.17	29.89	0.97	Complies
2437	22.81	0.19	29.89	0.97	Complies
2462	22.26	0.17	29.89	0.97	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.98	0.16	29.89	0.97	Complies
2437	23.03	0.20	29.89	0.97	Complies
2462	22.38	0.17	29.89	0.97	Complies

Test Mode :TX G Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.22	0.33	29.89	0.97	Complies
2437	25.93	0.39	29.89	0.97	Complies
2462	25.33	0.34	29.89	0.97	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	21.18	0.13	29.89	0.97	Complies
2437	22.85	0.19	29.89	0.97	Complies
2462	22.09	0.16	29.89	0.97	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	21.06	0.13	29.89	0.97	Complies
2437	23.09	0.20	29.89	0.97	Complies
2462	21.91	0.16	29.89	0.97	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	24.13	0.26	29.89	0.97	Complies
2437	25.98	0.40	29.89	0.97	Complies
2462	25.01	0.32	29.89	0.97	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	19.89	0.10	29.89	0.97	Complies
2437	21.96	0.16	29.89	0.97	Complies
2452	20.34	0.11	29.89	0.97	Complies

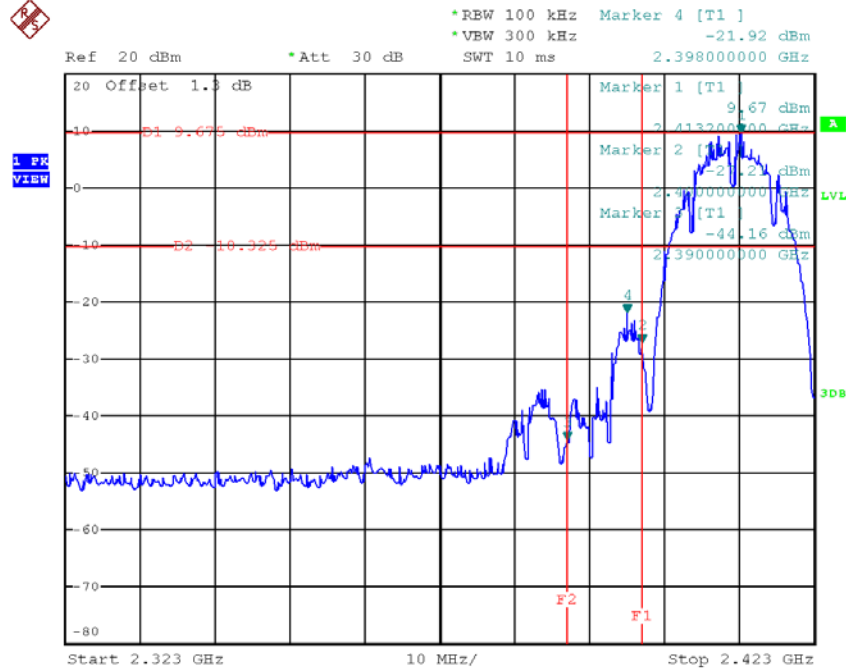
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.67	0.09	29.89	0.97	Complies
2437	21.57	0.14	29.89	0.97	Complies
2452	20.48	0.11	29.89	0.97	Complies

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	22.79	0.19	29.89	0.97	Complies
2437	24.78	0.30	29.89	0.97	Complies
2452	23.42	0.22	29.89	0.97	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

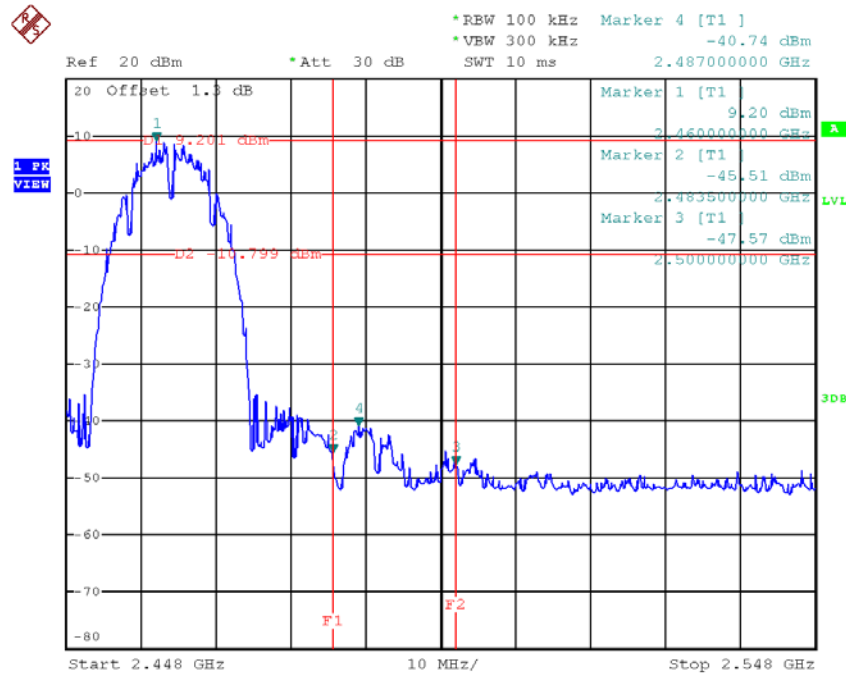
Test Mode : TX B Mode_ANT 1

TX B mode CH01



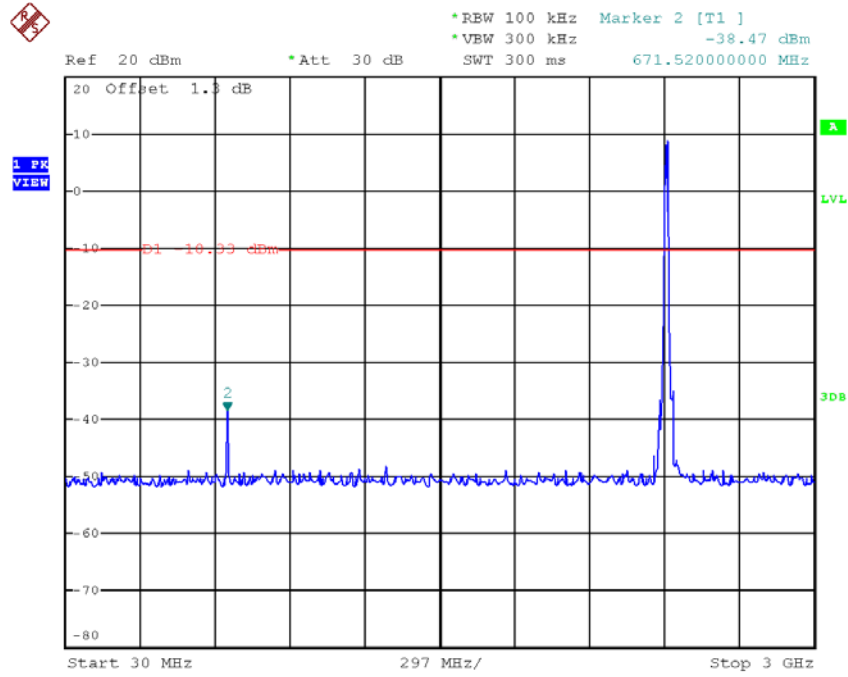
Date: 16.MAR.2018 13:46:53

TX B mode CH11

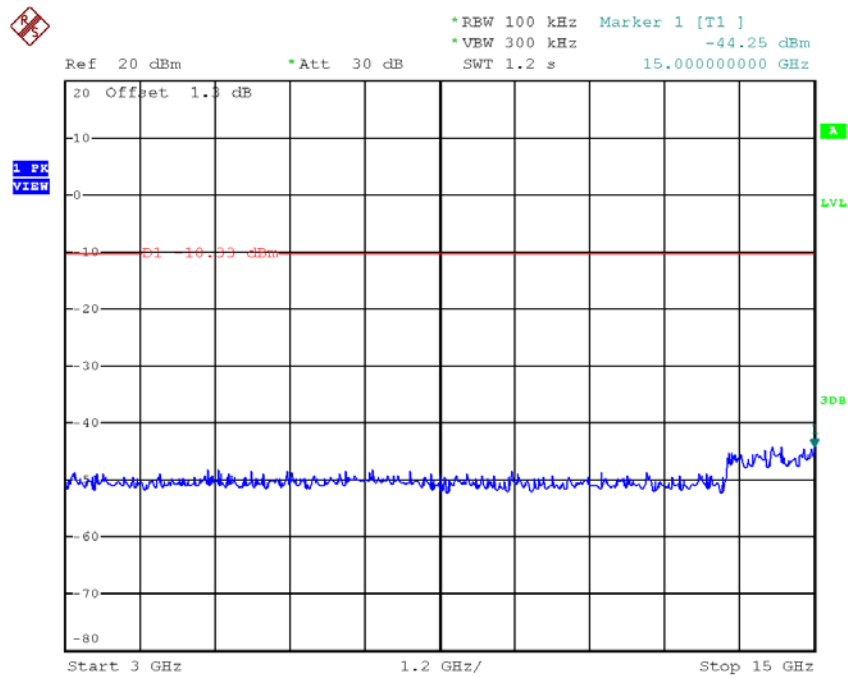


Date: 16.MAR.2018 13:50:27

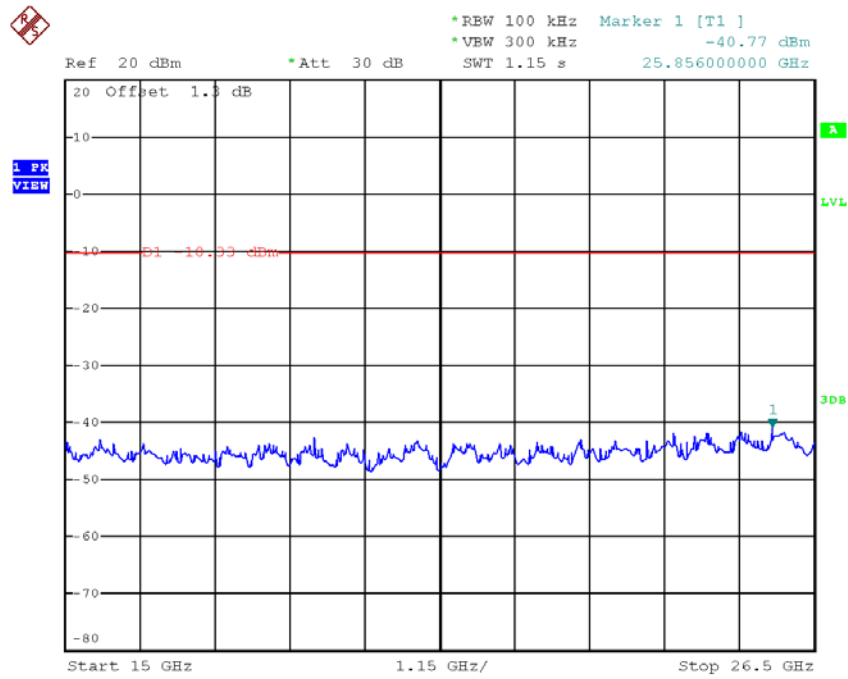
TX B mode CH01 (10 Harmonic of the frequency)



Date: 16.MAR.2018 13:47:06

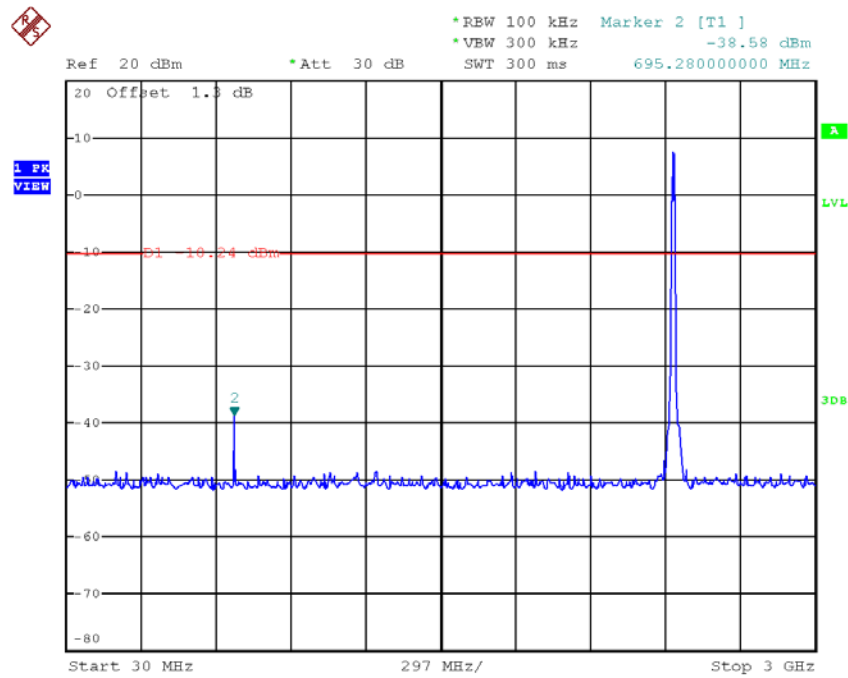


Date: 16.MAR.2018 13:47:13

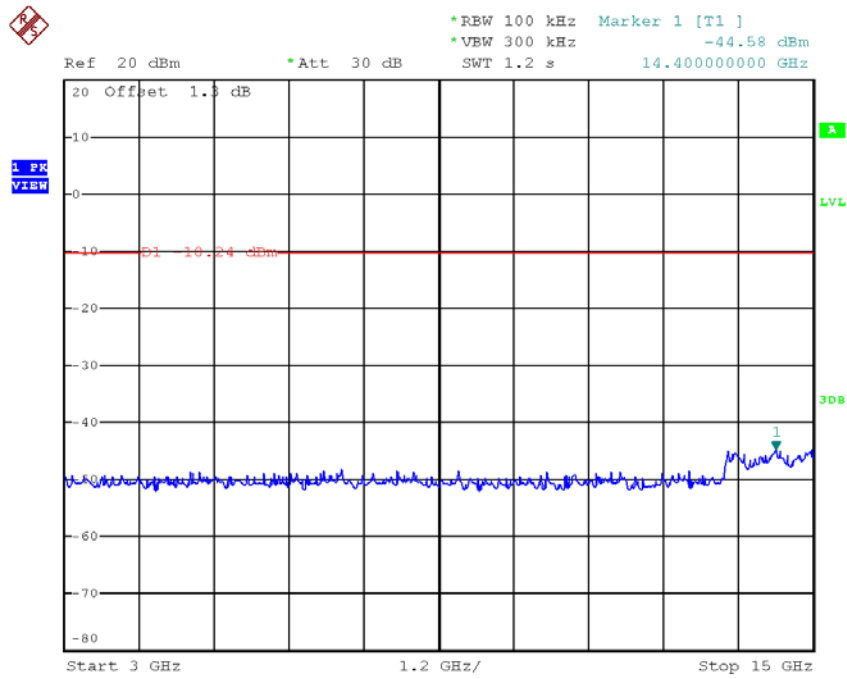


Date: 16.MAR.2018 13:47:19

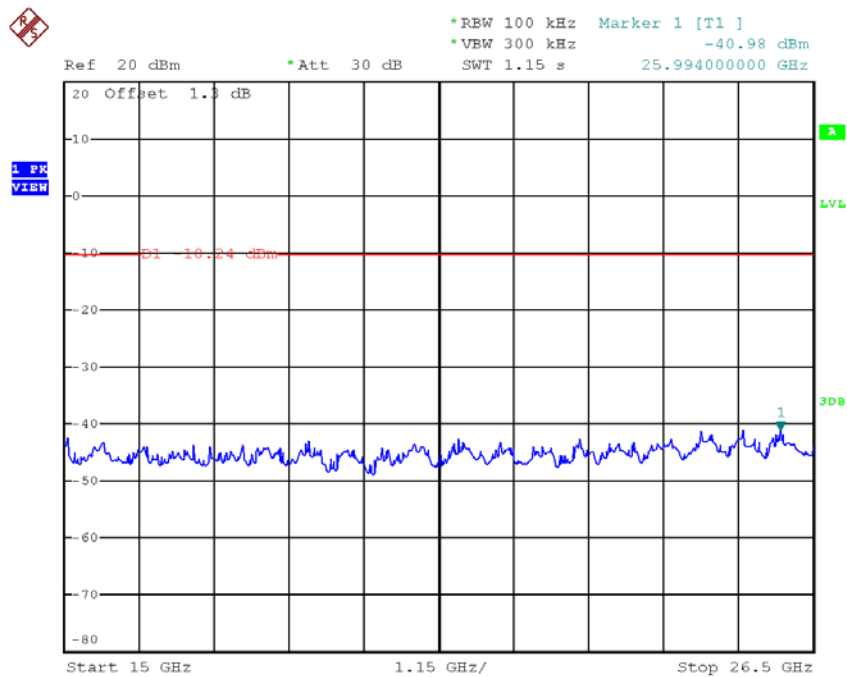
TX B mode CH06 (10 Harmonic of the frequency)



Date: 16.MAR.2018 13:48:51

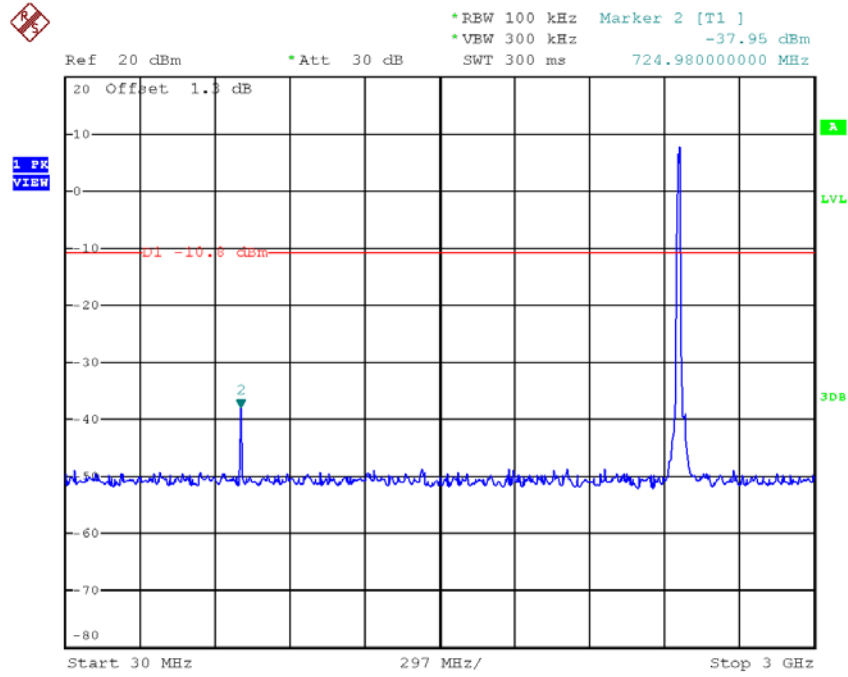


Date: 16.MAR.2018 13:48:58

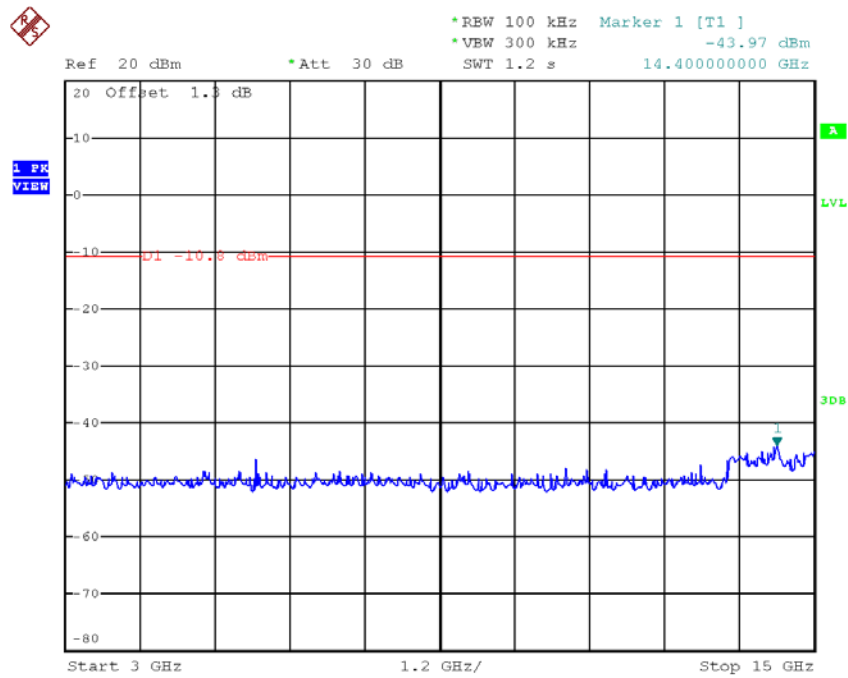


Date: 16.MAR.2018 13:49:04

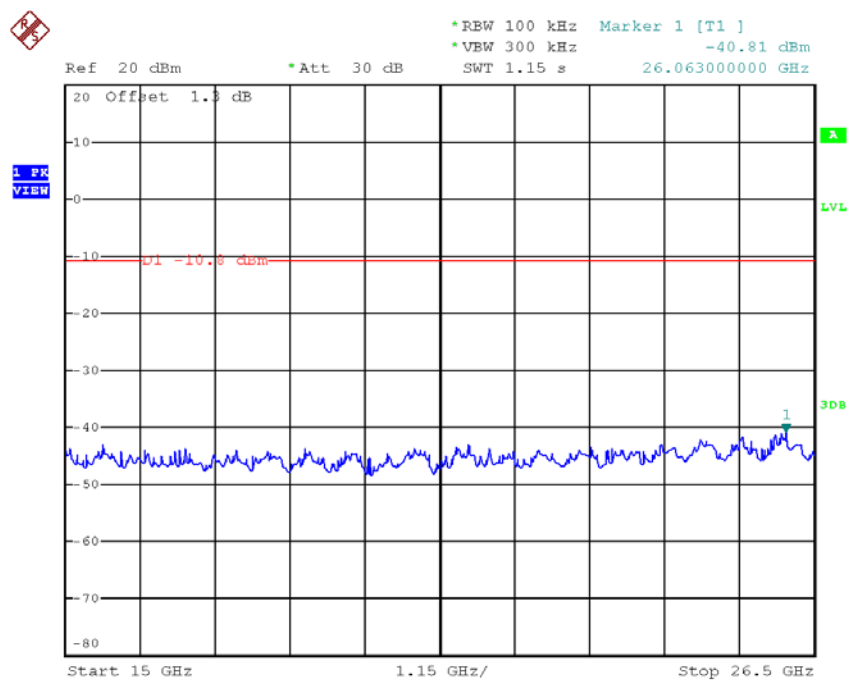
TX B mode CH11 (10 Harmonic of the frequency)



Date: 16.MAR.2018 13:50:40



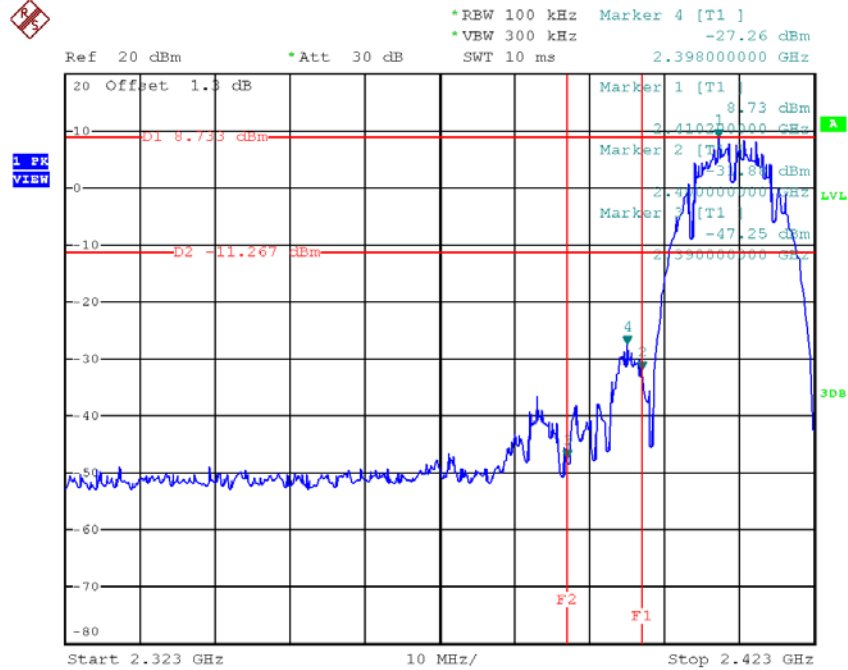
Date: 16.MAR.2018 13:50:47



Date: 16.MAR.2018 13:50:53

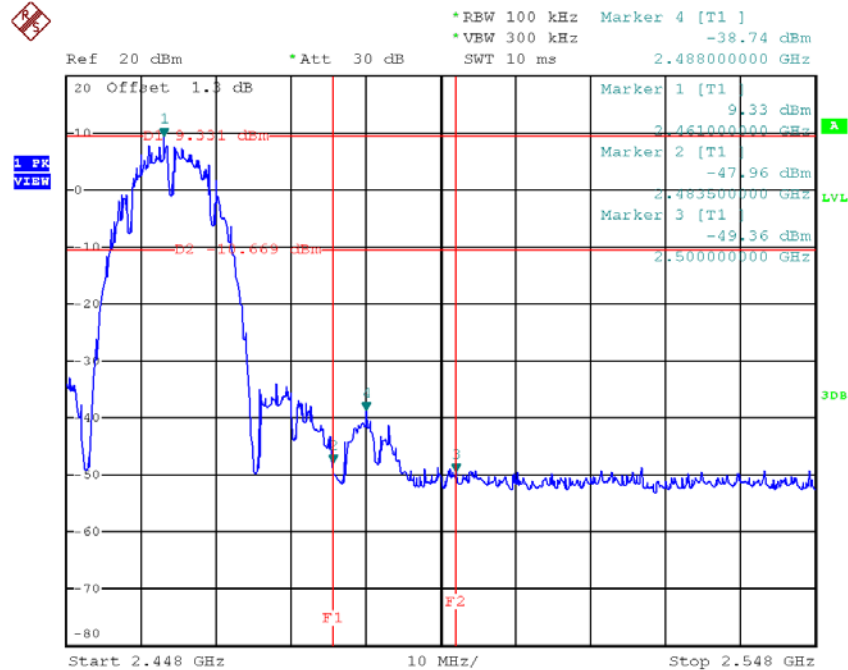
Test Mode : TX B Mode_ANT 2

TX B mode CH01



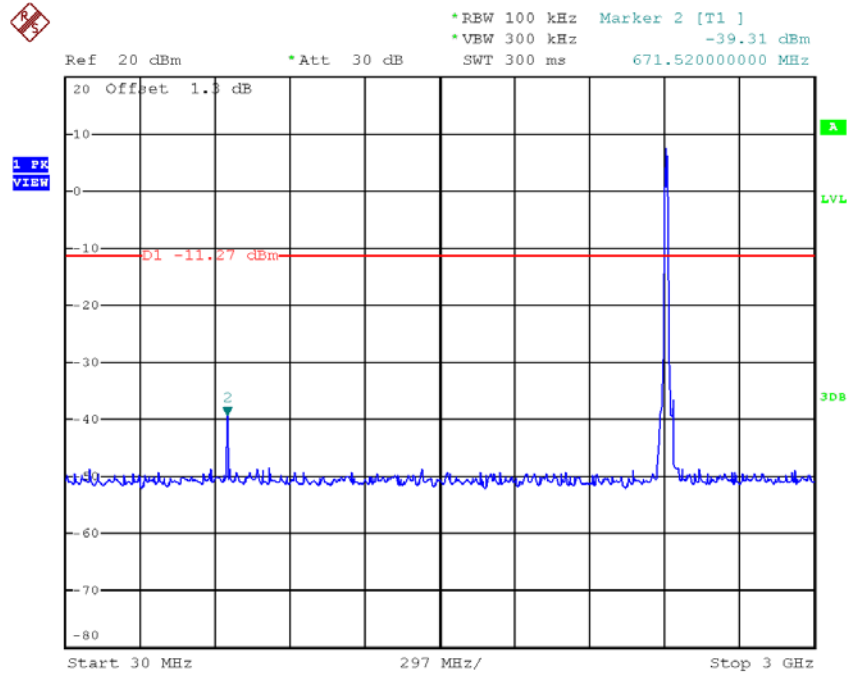
Date: 16.MAR.2018 14:22:27

TX B mode CH11

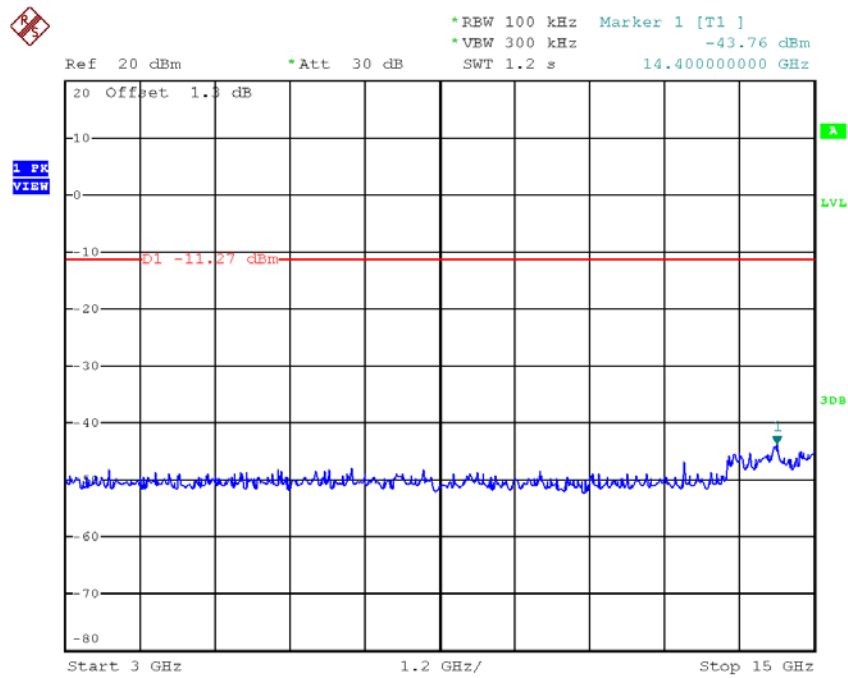


Date: 16.MAR.2018 14:26:33

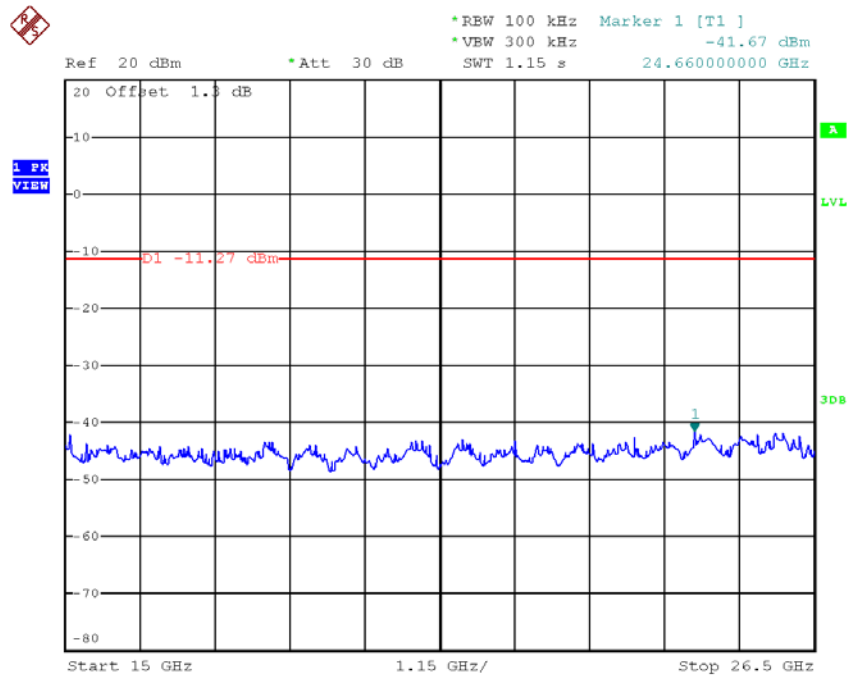
TX B mode CH01 (10 Harmonic of the frequency)



Date: 16.MAR.2018 14:22:40

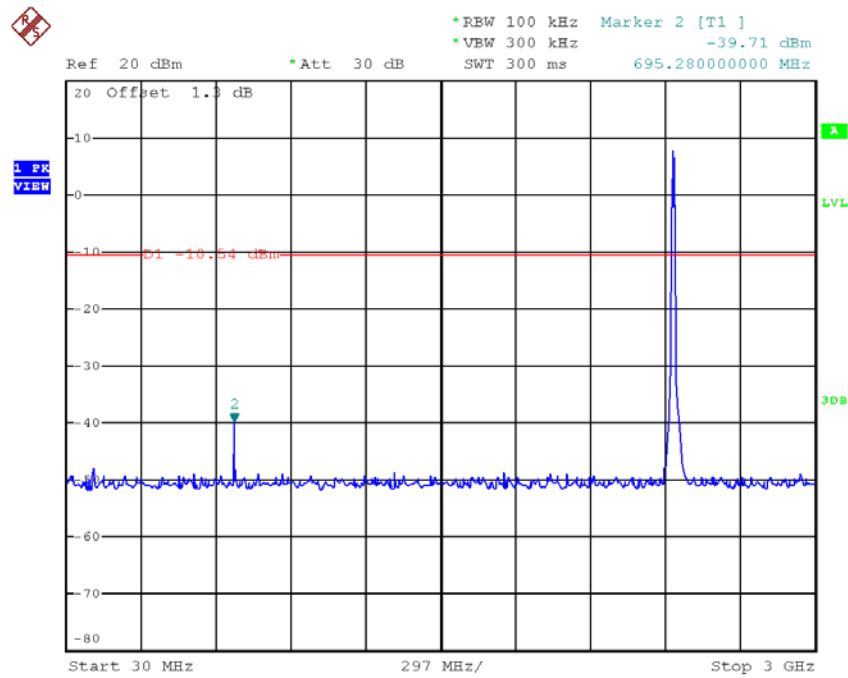


Date: 16.MAR.2018 14:22:46

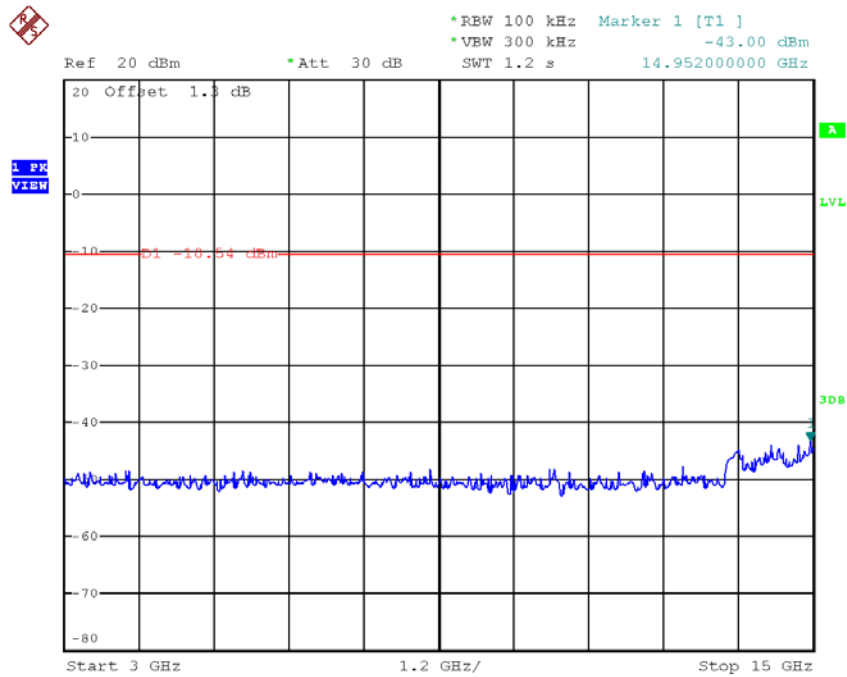


Date: 16.MAR.2018 14:22:53

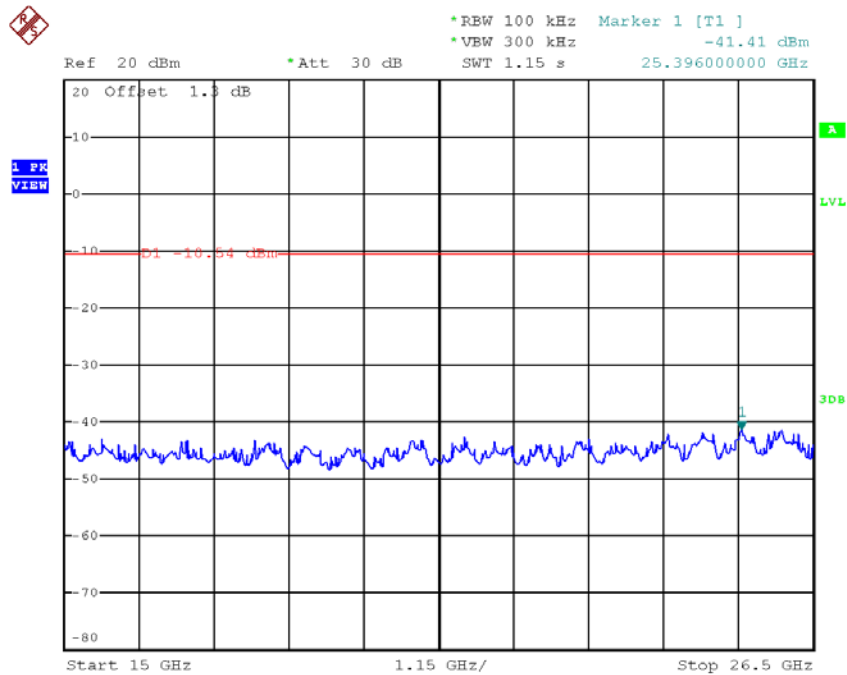
TX B mode CH06 (10 Harmonic of the frequency)



Date: 16.MAR.2018 14:24:19

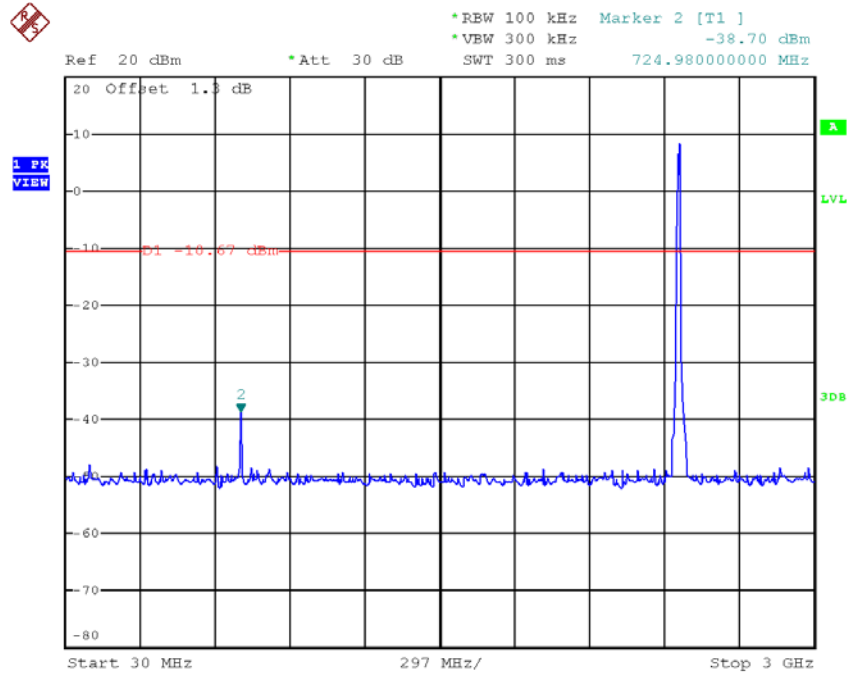


Date: 16.MAR.2018 14:24:26

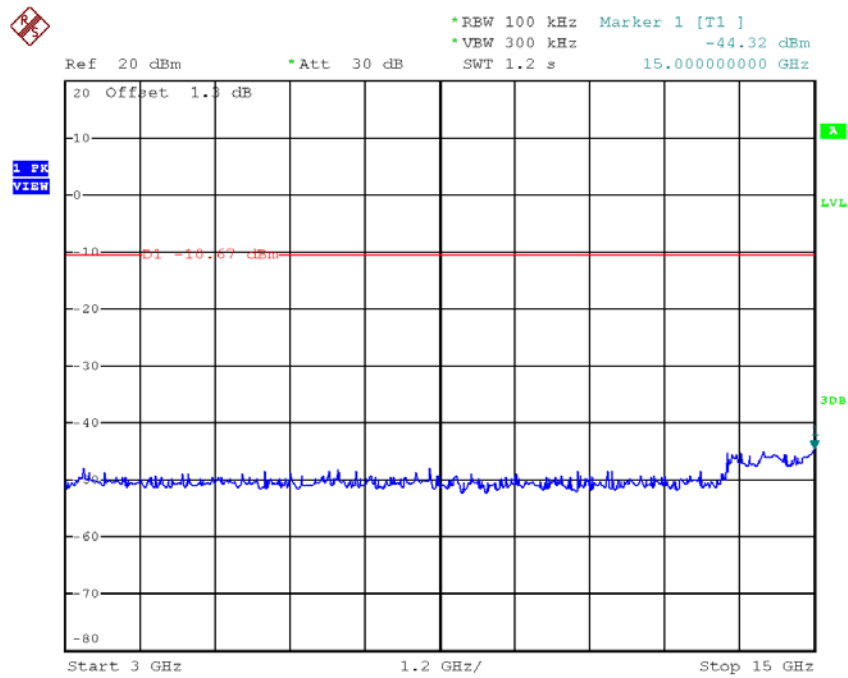


Date: 16.MAR.2018 14:24:32

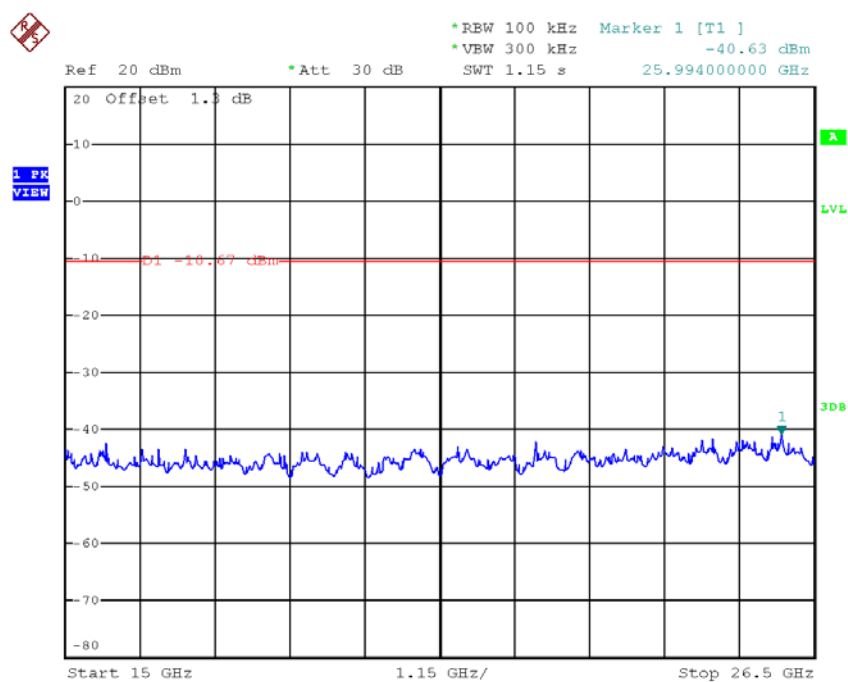
TX B mode CH11 (10 Harmonic of the frequency)



Date: 16.MAR.2018 14:26:45



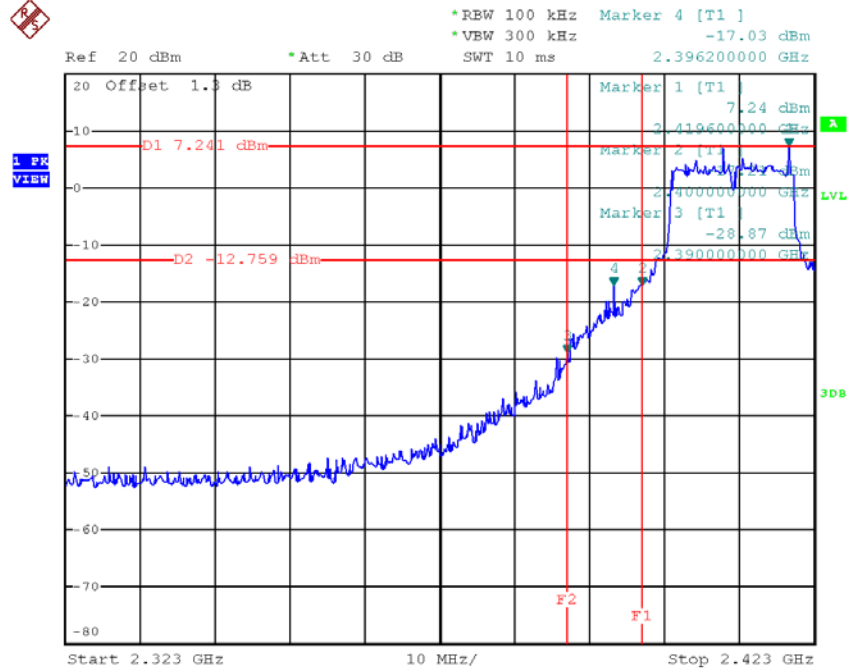
Date: 16.MAR.2018 14:26:52



Date: 16.MAR.2018 14:26:59

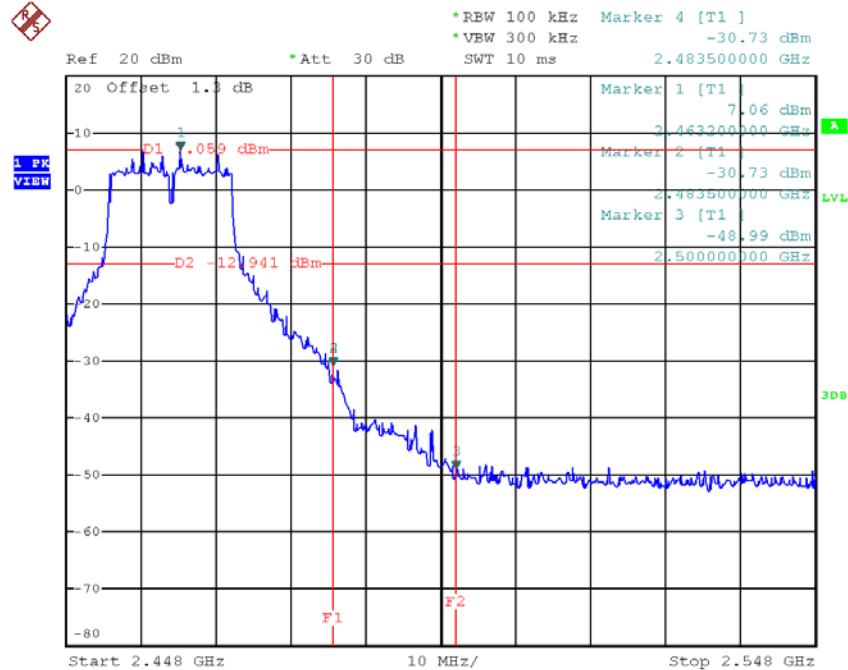
Test Mode : TX G Mode_ANT 1

TX G mode CH01



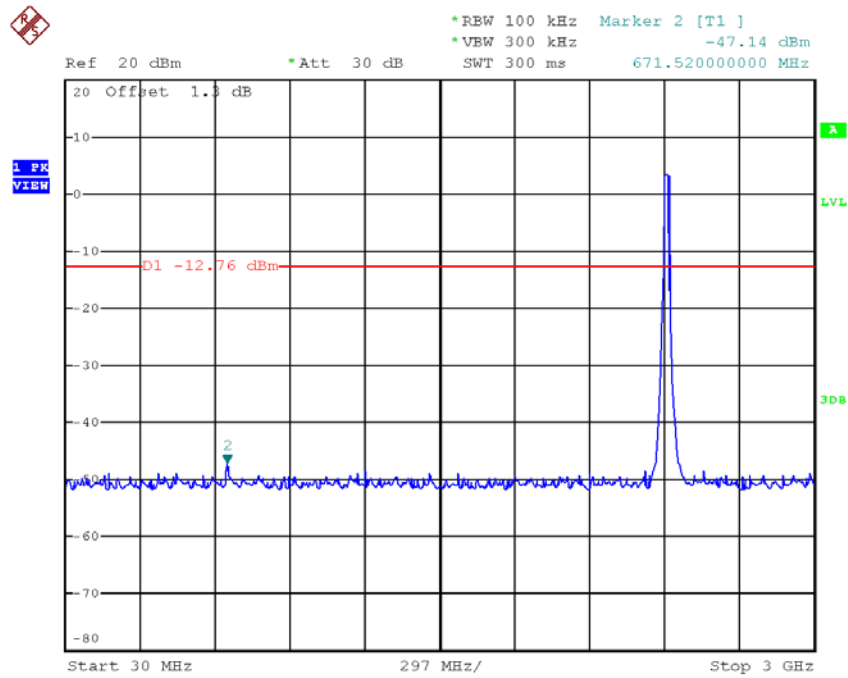
Date: 16.MAR.2018 13:51:55

TX G mode CH11

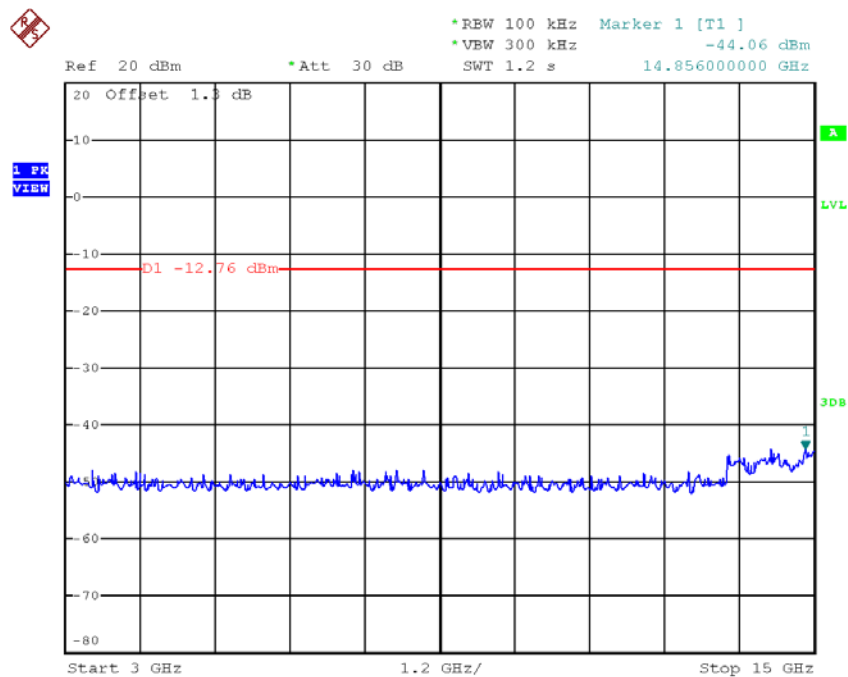


Date: 16.MAR.2018 13:55:04

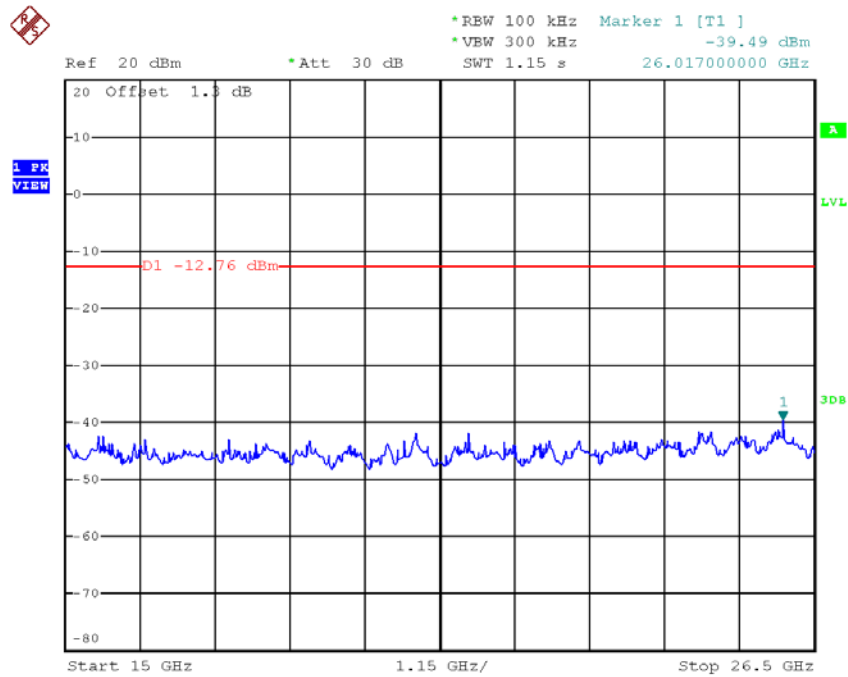
TX G mode CH01 (10 Harmonic of the frequency)



Date: 16.MAR.2018 13:52:08

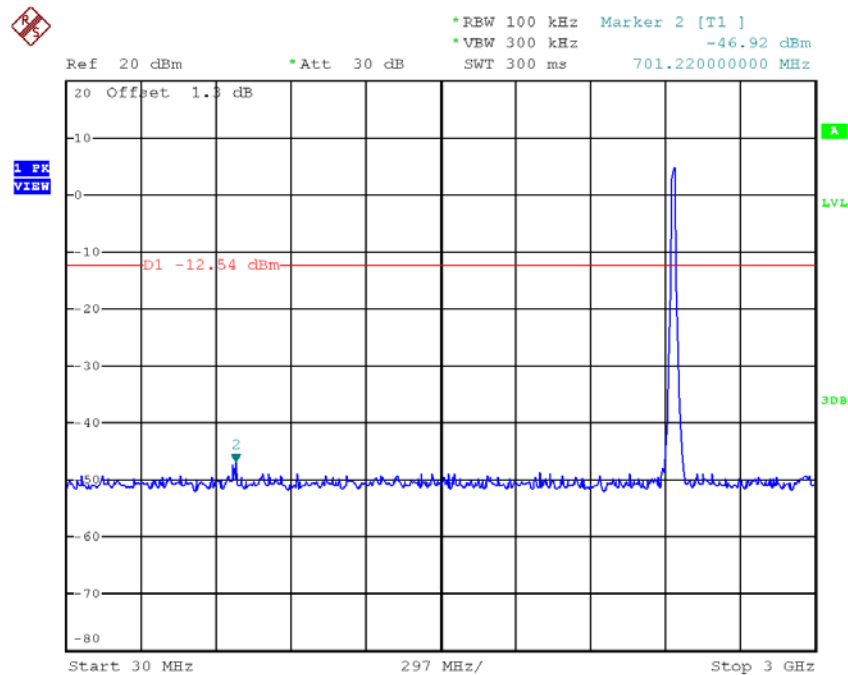


Date: 16.MAR.2018 13:52:15

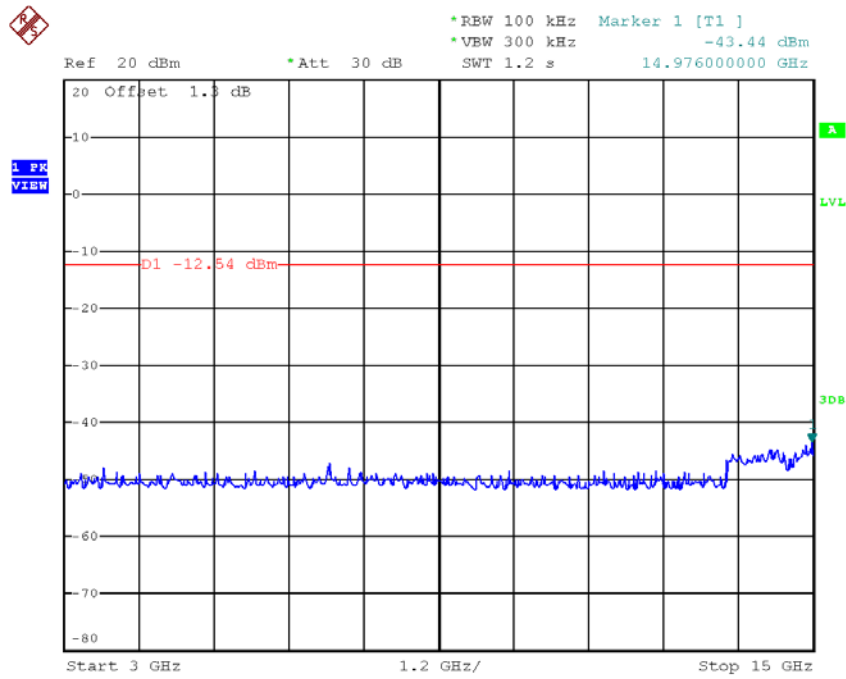


Date: 16.MAR.2018 13:52:22

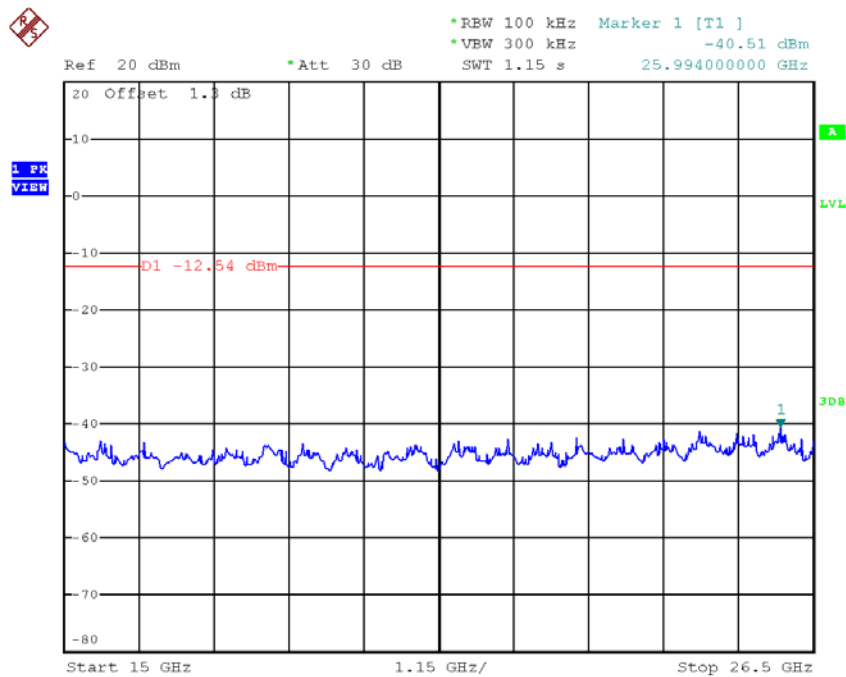
TX G mode CH06 (10 Harmonic of the frequency)



Date: 16.MAR.2018 13:53:41

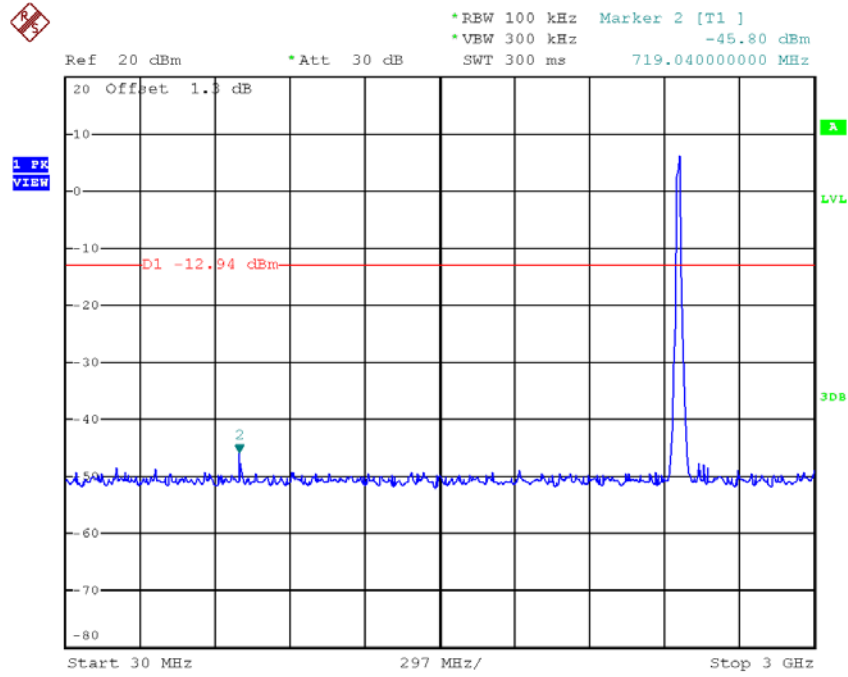


Date: 16.MAR.2018 13:53:48

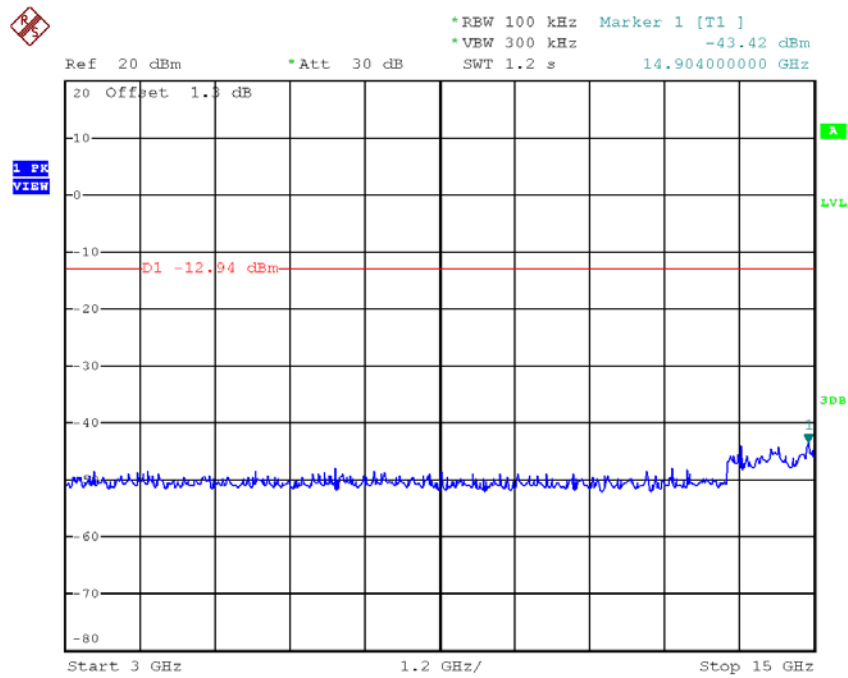


Date: 16.MAR.2018 13:53:55

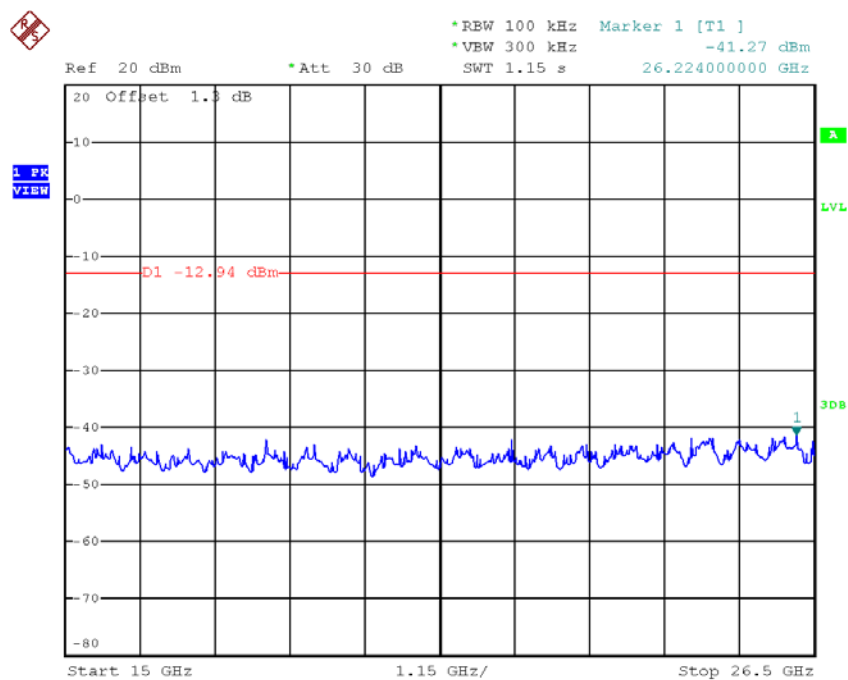
TX G mode CH11 (10 Harmonic of the frequency)



Date: 16.MAR.2018 13:55:17



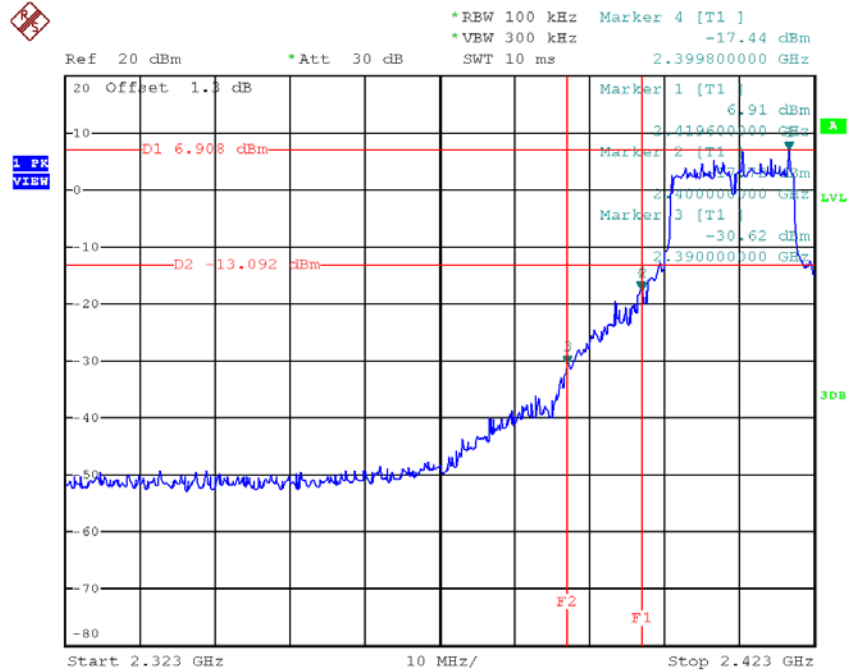
Date: 16.MAR.2018 13:55:24



Date: 16.MAR.2018 13:55:30

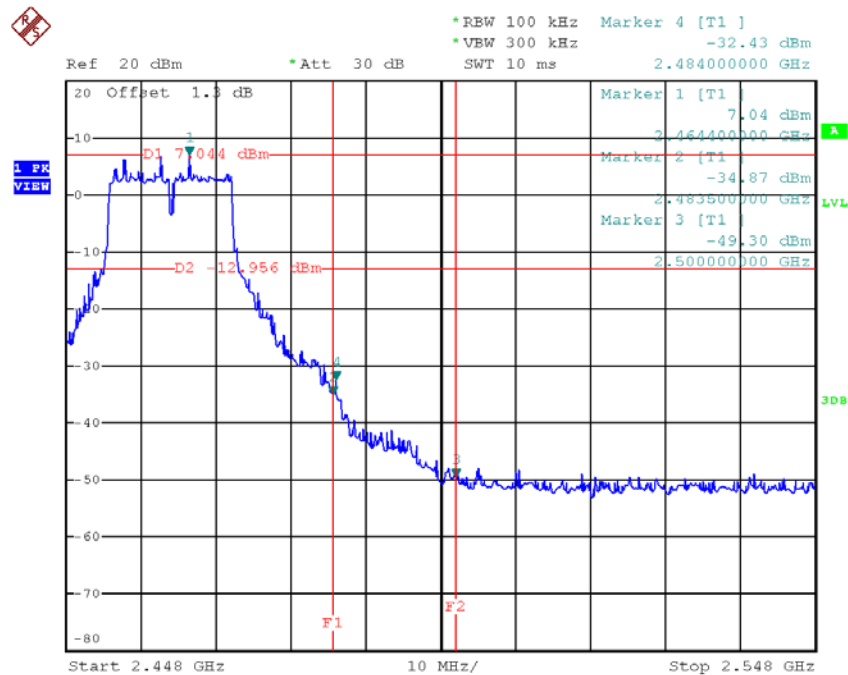
Test Mode : TX G Mode_ANT 2

TX G mode CH01



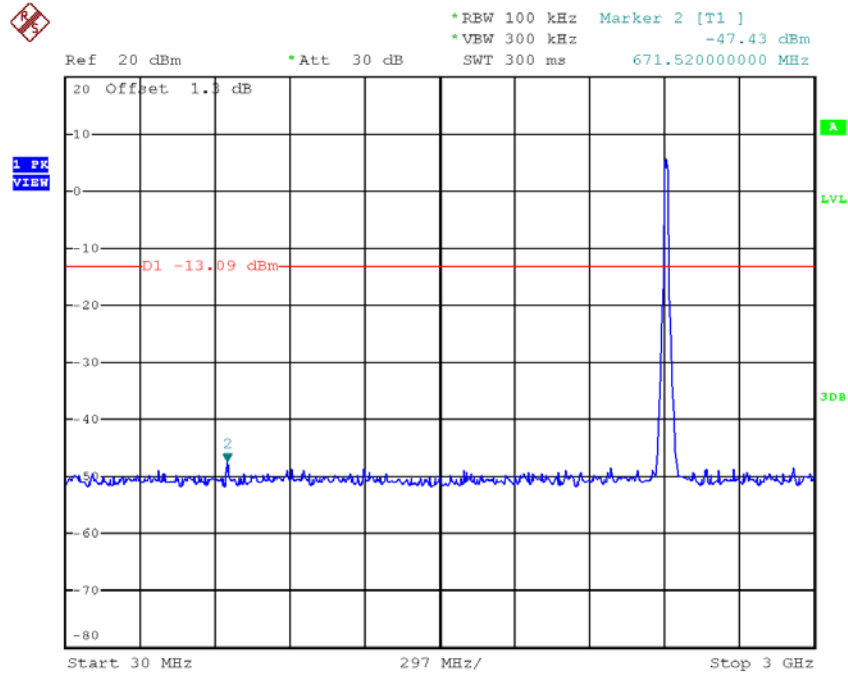
Date: 16.MAR.2018 14:28:15

TX G mode CH11

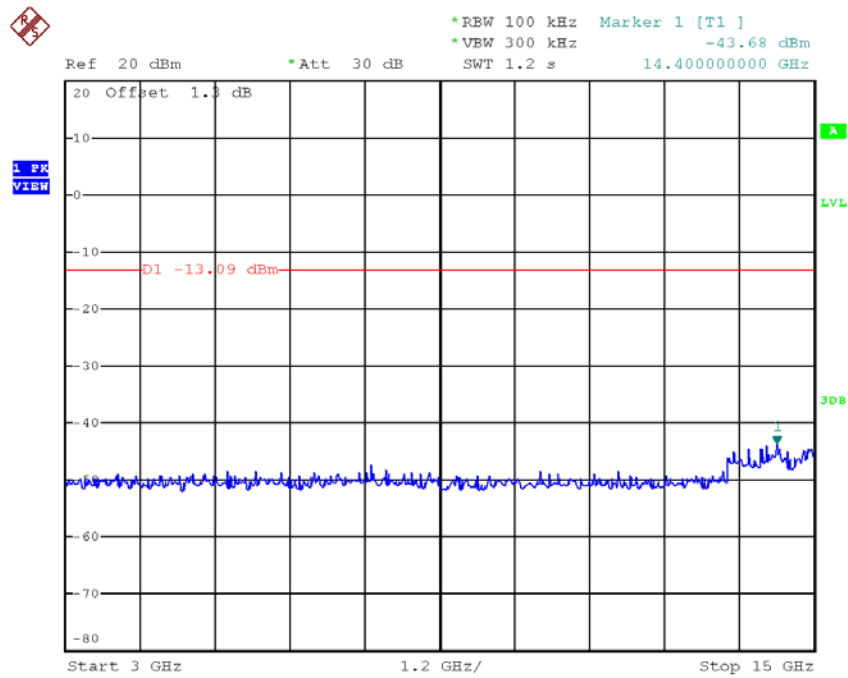


Date: 16.MAR.2018 14:31:13

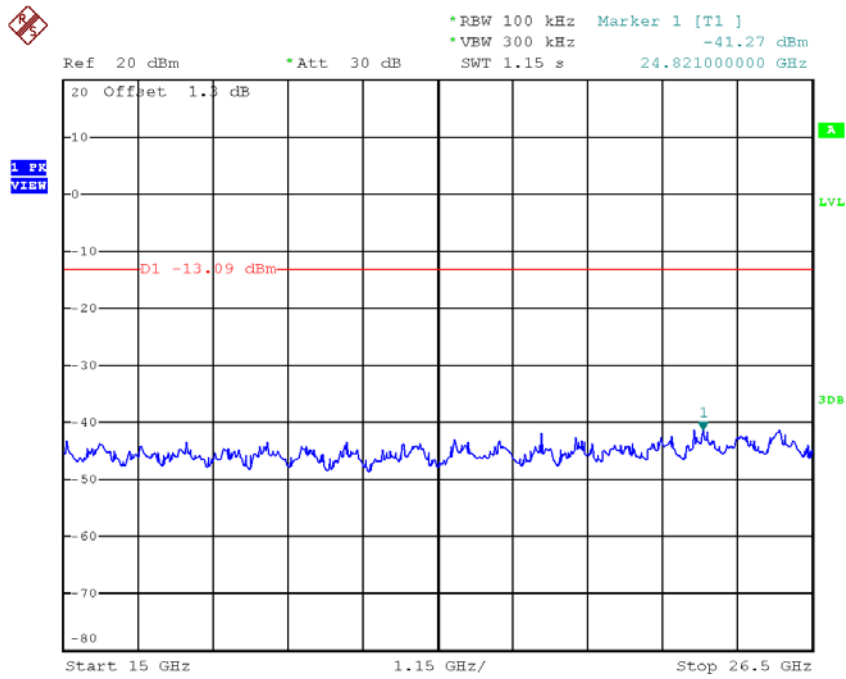
TX G mode CH01 (10 Harmonic of the frequency)



Date: 16.MAR.2018 14:28:27

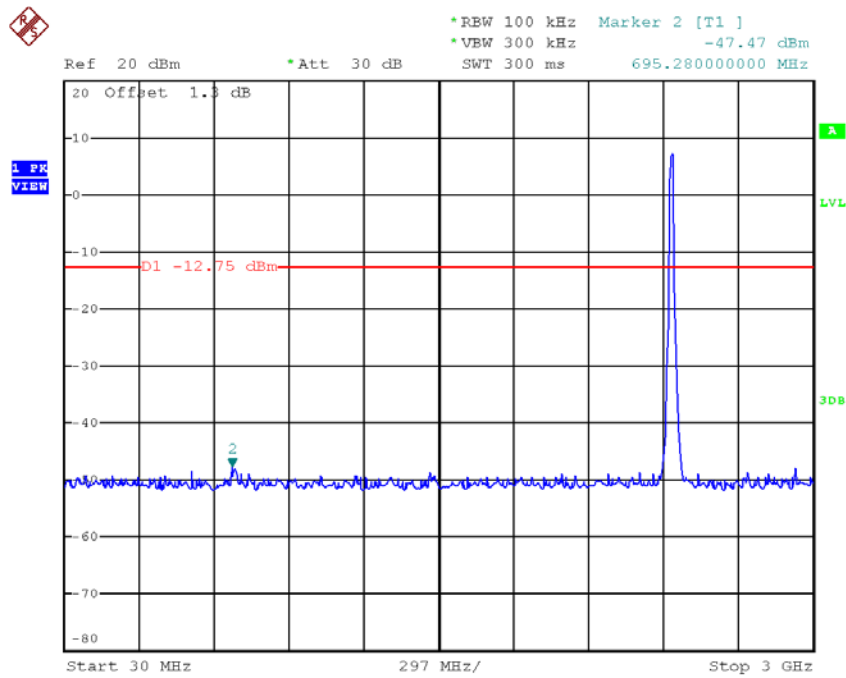


Date: 16.MAR.2018 14:28:34

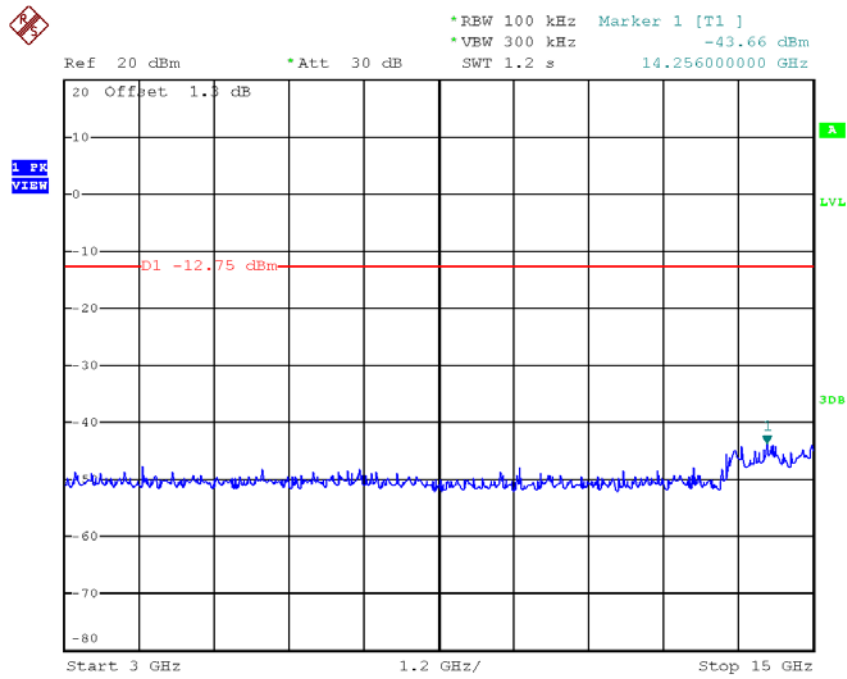


Date: 16.MAR.2018 14:28:41

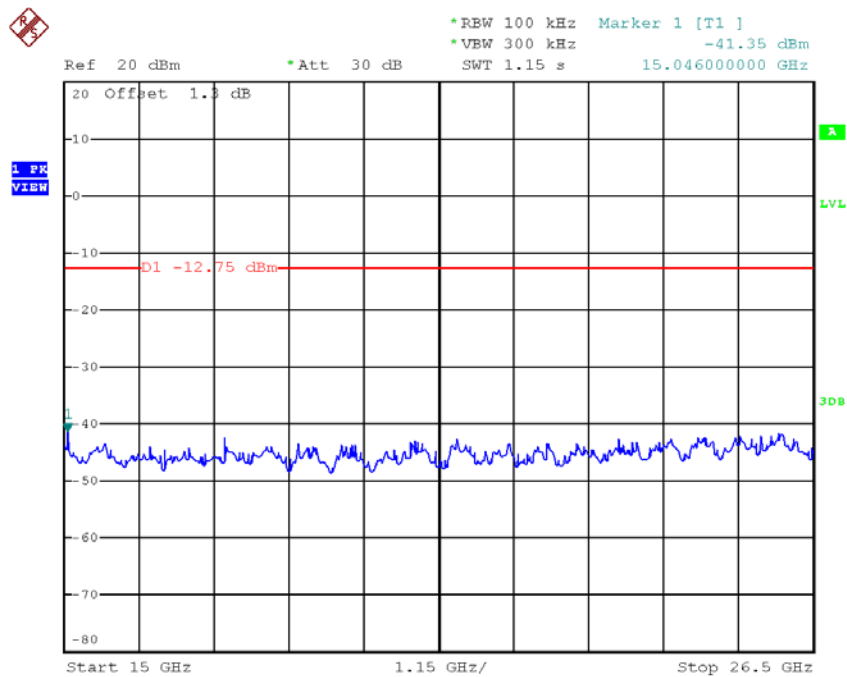
TX G mode CH06 (10 Harmonic of the frequency)



Date: 16.MAR.2018 14:30:05

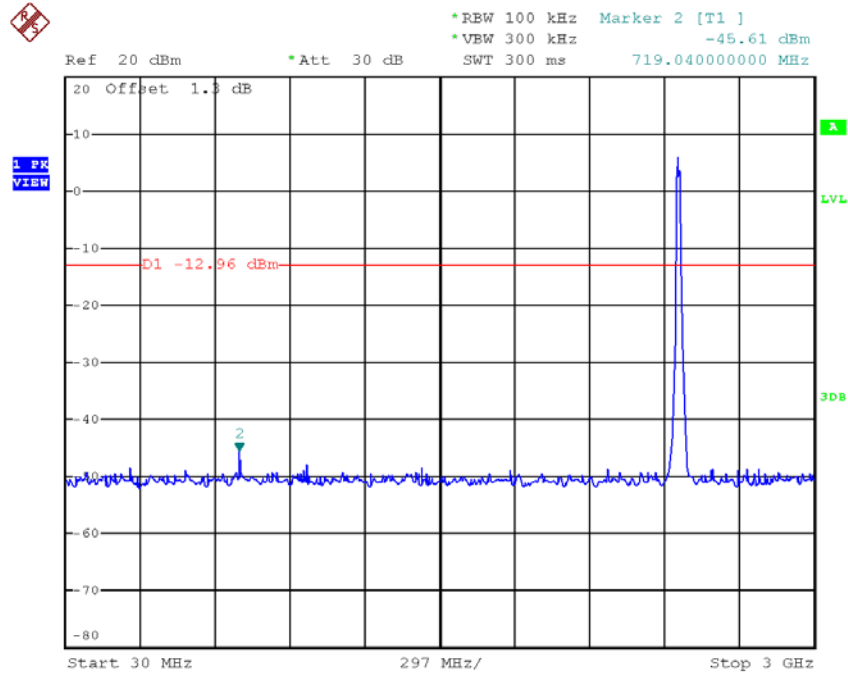


Date: 16.MAR.2018 14:30:12

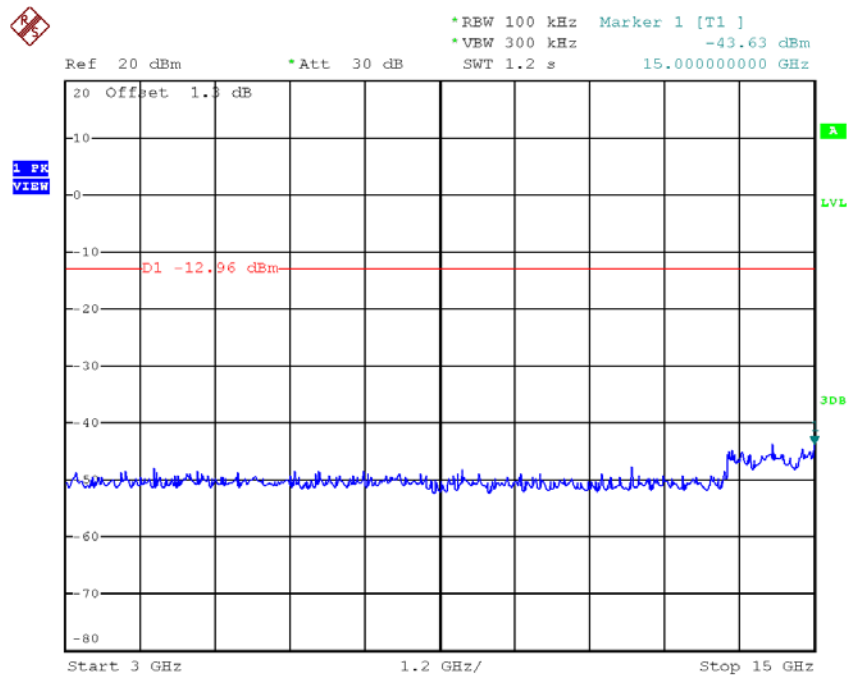


Date: 16.MAR.2018 14:30:19

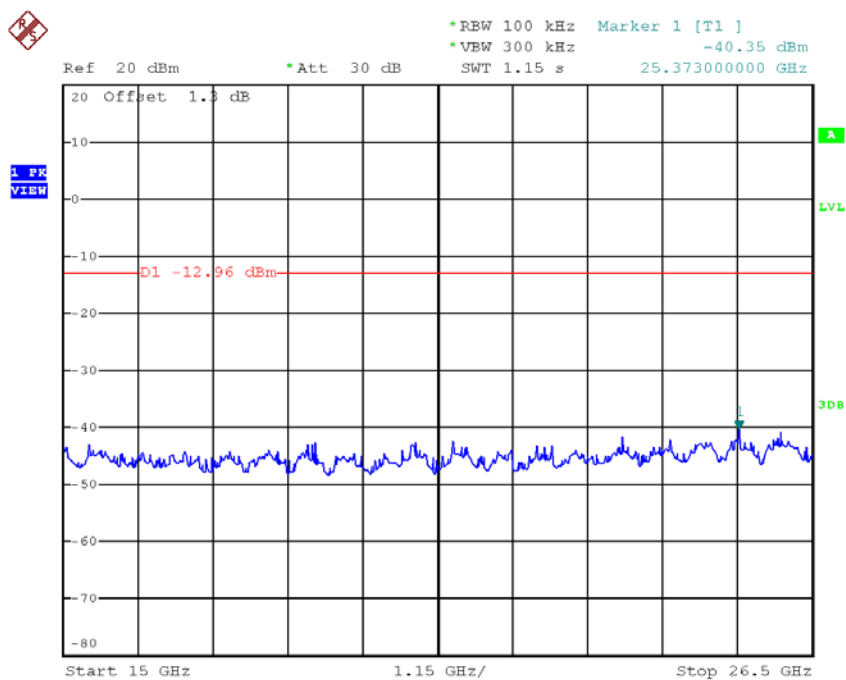
TX G mode CH11 (10 Harmonic of the frequency)



Date: 16.MAR.2018 14:31:25



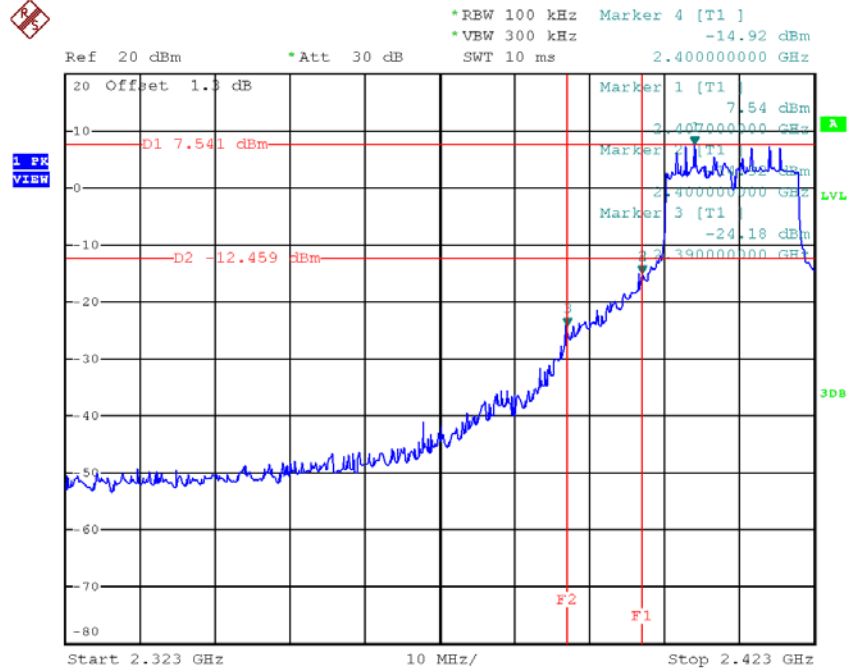
Date: 16.MAR.2018 14:31:32



Date: 16.MAR.2018 14:31:39

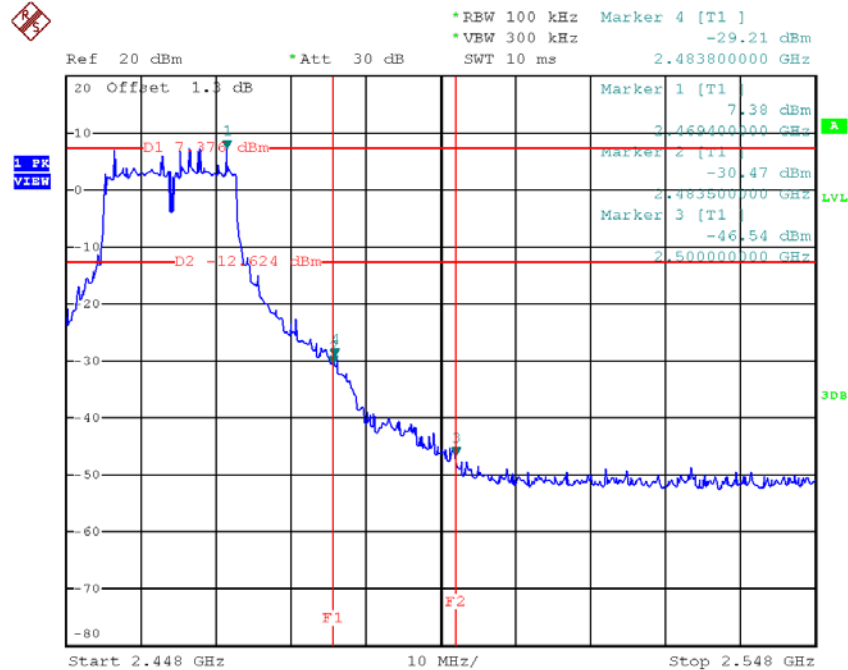
Test Mode : TX N-20M Mode_ANT 1

TX HT20 mode CH01



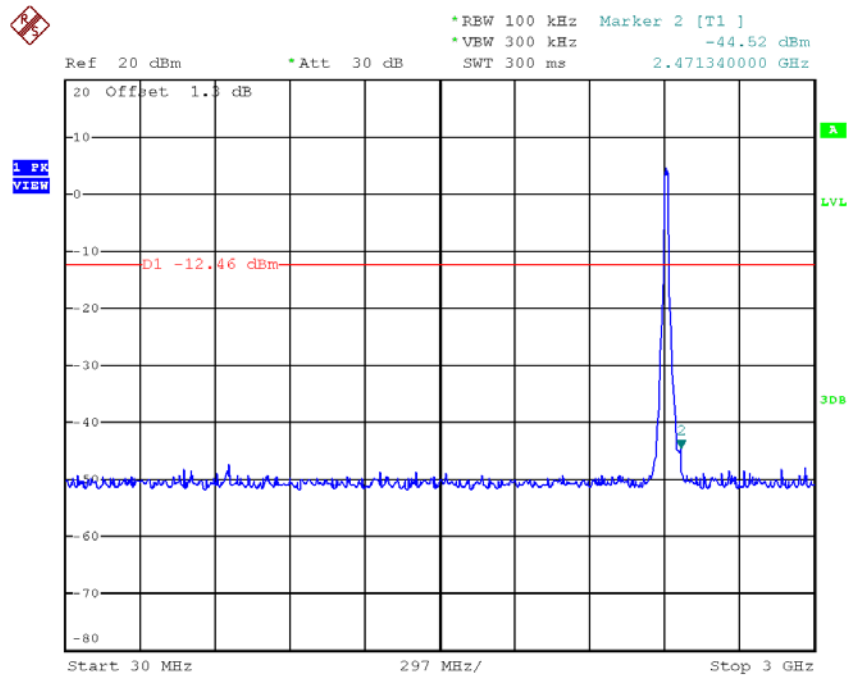
Date: 16.MAR.2018 13:57:50

TX HT20 mode CH11

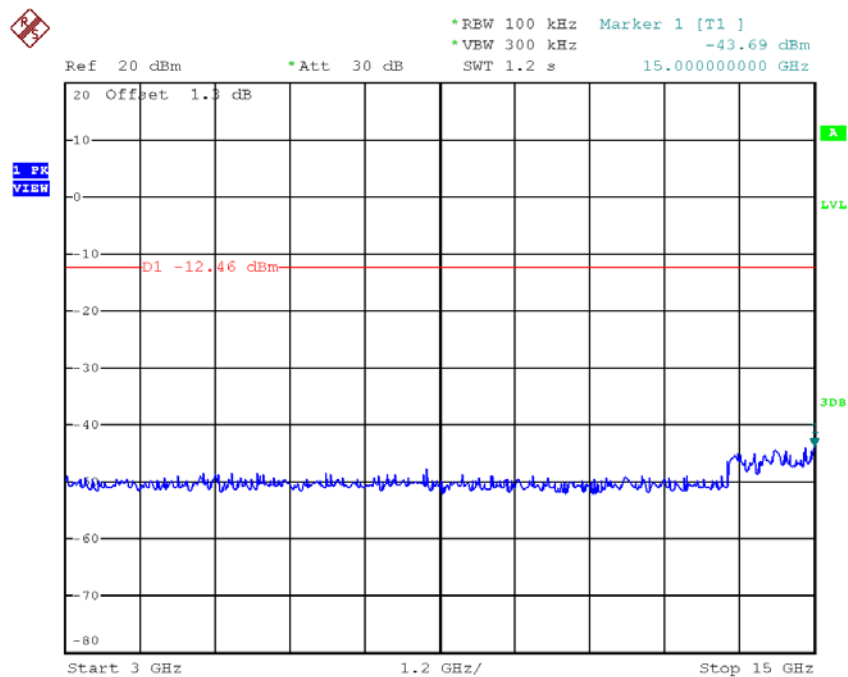


Date: 16.MAR.2018 14:00:44

TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 16.MAR.2018 13:58:03



Date: 16.MAR.2018 13:58:10