

FCC Radio Test Report

FCC ID: 2AOVE-MD005

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

Project No. : 1711C011B
Equipment : MOORE STREAM
Test Model : MD005
Series Model : N/A
Applicant : Mooredoll Inc.
Address : 2F., No.29, Sec. 3, Nanjing E. Rd., Zhongshan Dist.,
Taipei City 104, Taiwan

Date of Receipt : Nov. 13, 2017
Date of Test : Nov. 13, 2017 ~ Jan. 17, 2018
Issued Date : Mar. 06, 2018
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Version	Description	Issued Date
BTL-FCCP-2-1711C011B	Rev.01	Original Issue.	Jan. 02, 2018
BTL-FCCP-2-1711C011B	Rev.02	Test photos of 9kHz to 30MHz are updated.	Mar. 06, 2018

1. CERTIFICATION

Equipment : MOORE STREAM
Brand Name : MOOREDOLL
Test Model : MD005
Series Model : N/A
Applicant : Mooredoll Inc.
Manufacturer : Mooredoll Inc.
Address : 2F., No.29, Sec. 3, Nanjing E. Rd., Zhongshan Dist., Taipei City 104, Taiwan
Factory : EVERMERIT Technology Electronic Co.,Ltd.
Address : Building B Global Brands Park, YueYuen Industrial Estate, HuangJiang Town,
DongGuan City, GuangDong Province, China
Date of Test : Nov. 13, 2017 ~ Jan. 17, 2018
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1711C011B) 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 WLAN 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

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	MOORE STREAM	
Brand Name	MOOREDOLL	
Test Model	MD005	
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 135 Mbps
	Output Power (Max.)	802.11b: 20.5dBm 802.11g: 22.26dBm 802.11n(20MHz): 22.12dBm 802.11n(40MHz): 20.75dBm
Power Source	DC voltage supplied from AC/DC adapter. Brand / Model: HONOR / ADS-6RA-06 05050EPCU	
Power Rating	I/P: 100-240~50/60Hz Max. 0.3A O/P: 5V --- 1.0A	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	INPAQ	ACA-5036-A2-CC-S	Chip	N/A	2.1

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:

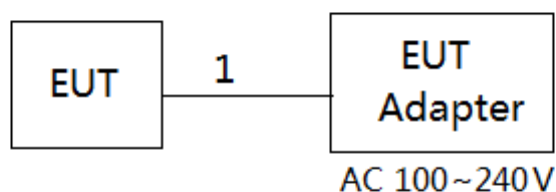
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (6.5Mbps)
 802.11n HT40 mode : BPSK (13.5Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) 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	ipop		
Frequency (MHz)	2412	2437	2462
802.11b	0	0	0
802.11g	0	0	0
802.11n (20MHz)	0	0	0
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	0	0	0

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	1.2m	DC 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

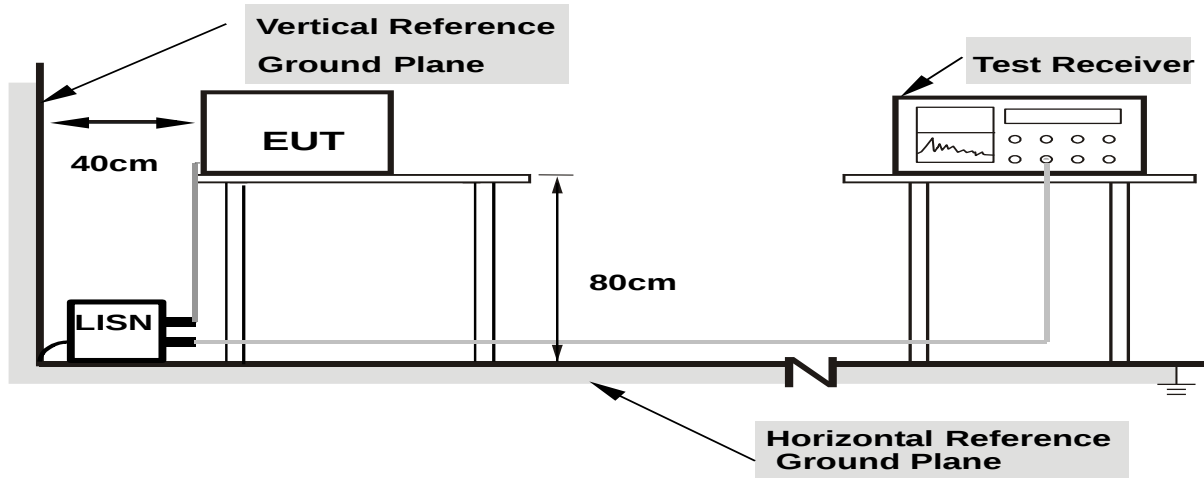
4.1.2 TEST PROCEDURE

- 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

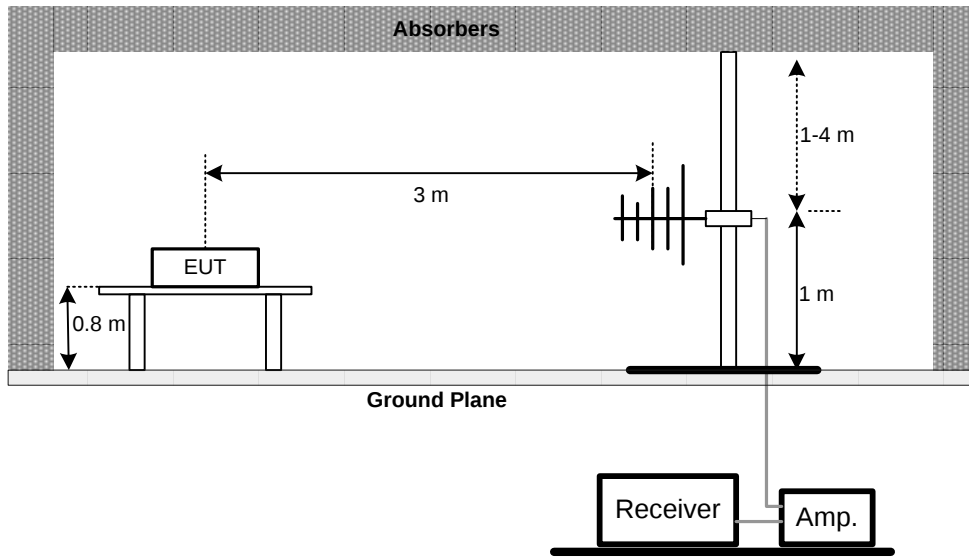
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

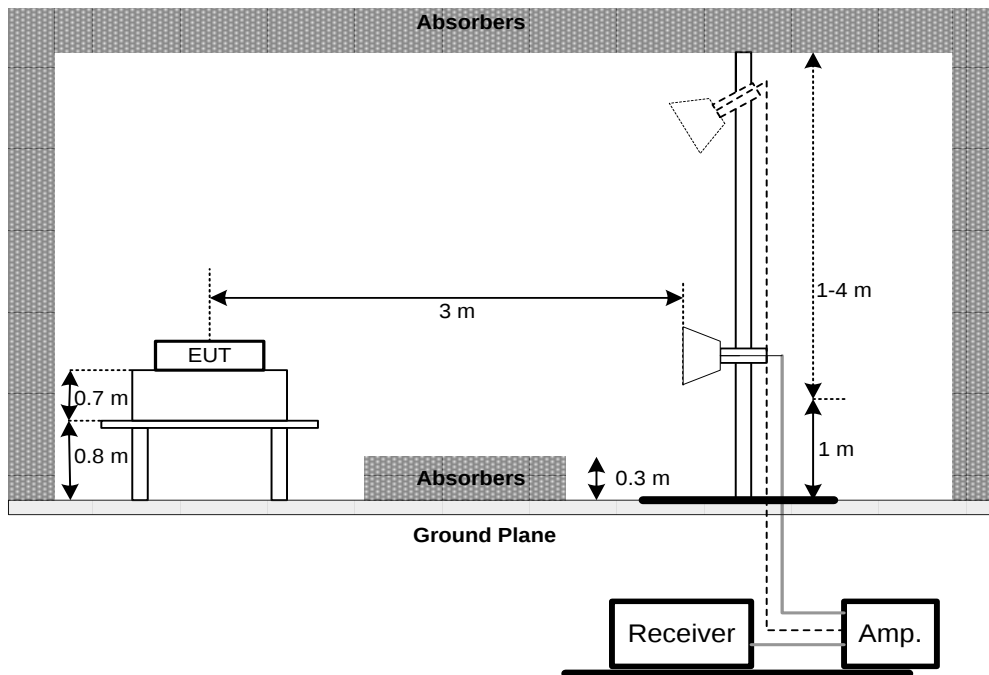
No deviation

4.2.4 TEST SETUP

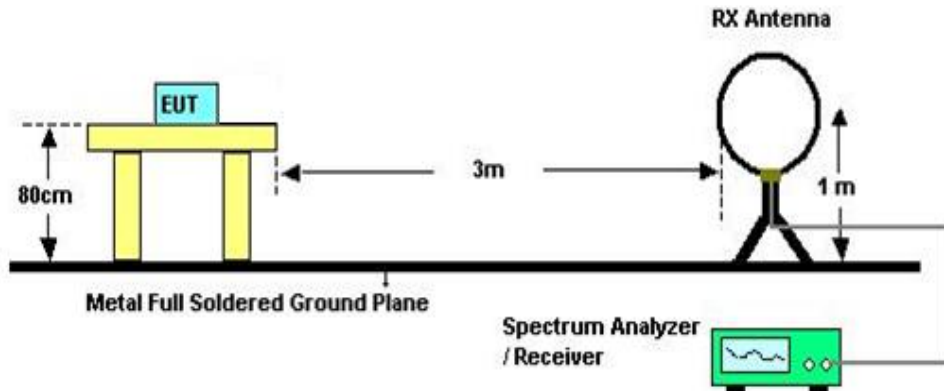
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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

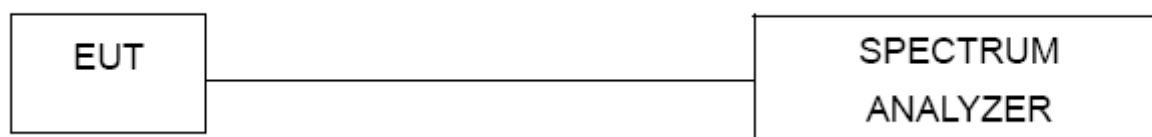
5.1.1 TEST PROCEDURE

- 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

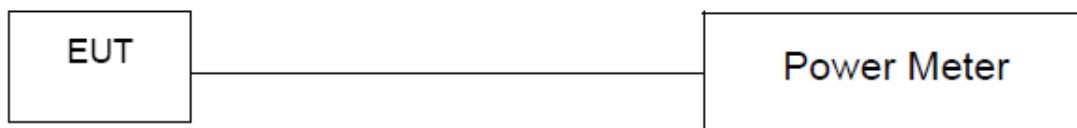
6.1.1 TEST PROCEDURE

- 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.

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 Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 26, 2018
2	LISN	R&S	ENV216	101447	Mar. 26, 2018
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 09, 2018
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 26, 2018
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018
2	Amplifier	HP	8447D	2944A09673	Aug. 20, 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	Mar. 06, 2018

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. 26, 2018
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Antenna	EM	EM-6876-1	230	Jul. 07, 2018
7	Controller	CT	SC100	N/A	N/A
8	Controller	MF	MF-7802	MF780208416	N/A
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
10	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. 26, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 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.

10. EUT TEST PHOTO

Conducted Measurement Photos



Radiated Measurement Photos

9KHz to 30MHz



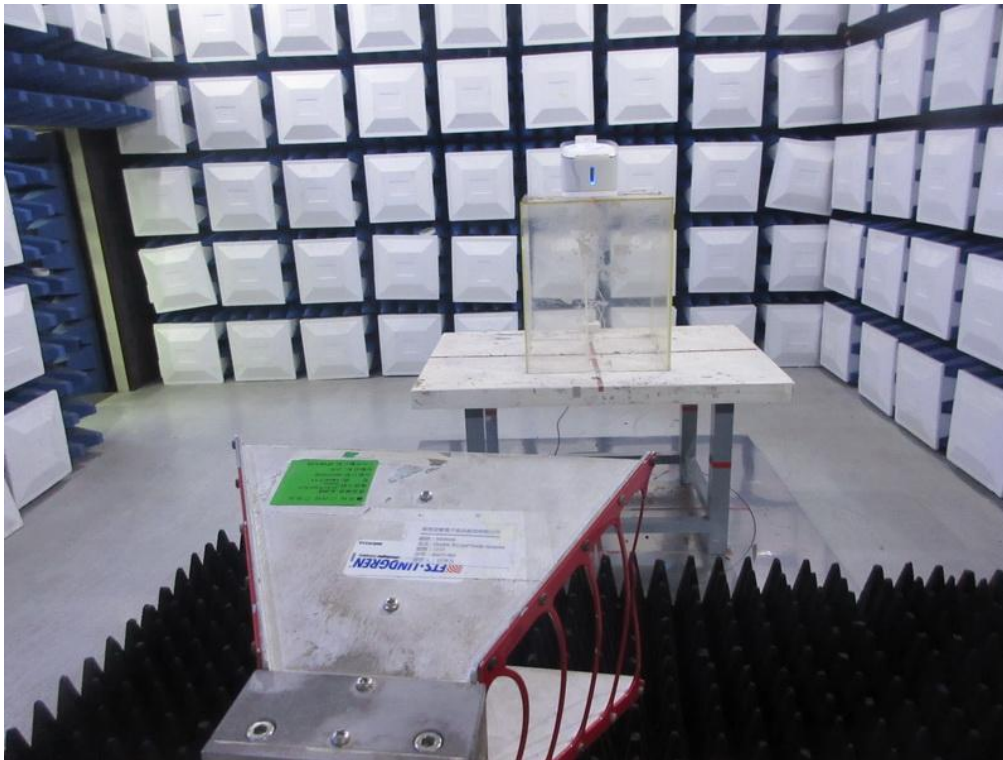
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

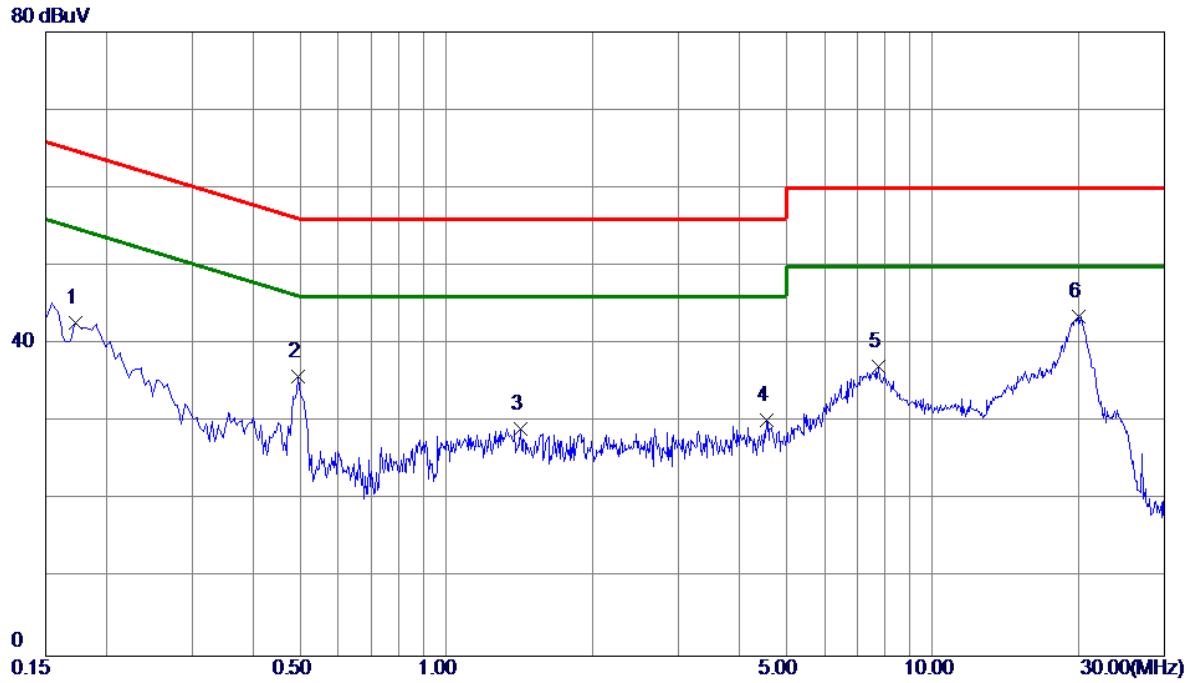
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

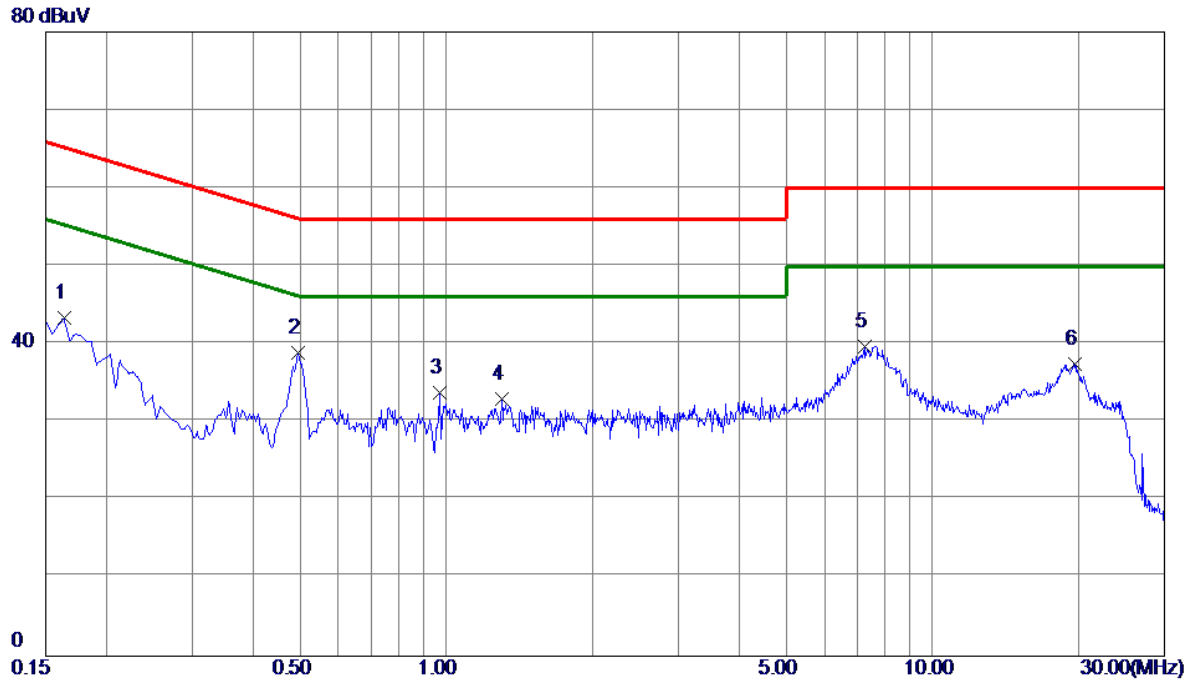
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1725	32.97	9.78	42.75	64.84	-22.09	Peak	
2	0.4965	26.04	9.80	35.84	56.06	-20.22	Peak	
3	1.4190	19.25	9.90	29.15	56.00	-26.85	Peak	
4	4.5600	20.12	10.05	30.17	56.00	-25.83	Peak	
5	7.7460	26.93	10.22	37.15	60.00	-22.85	Peak	
6 *	19.9275	32.90	10.65	43.55	60.00	-16.45	Peak	

Test Mode : Normal Link

Neutral

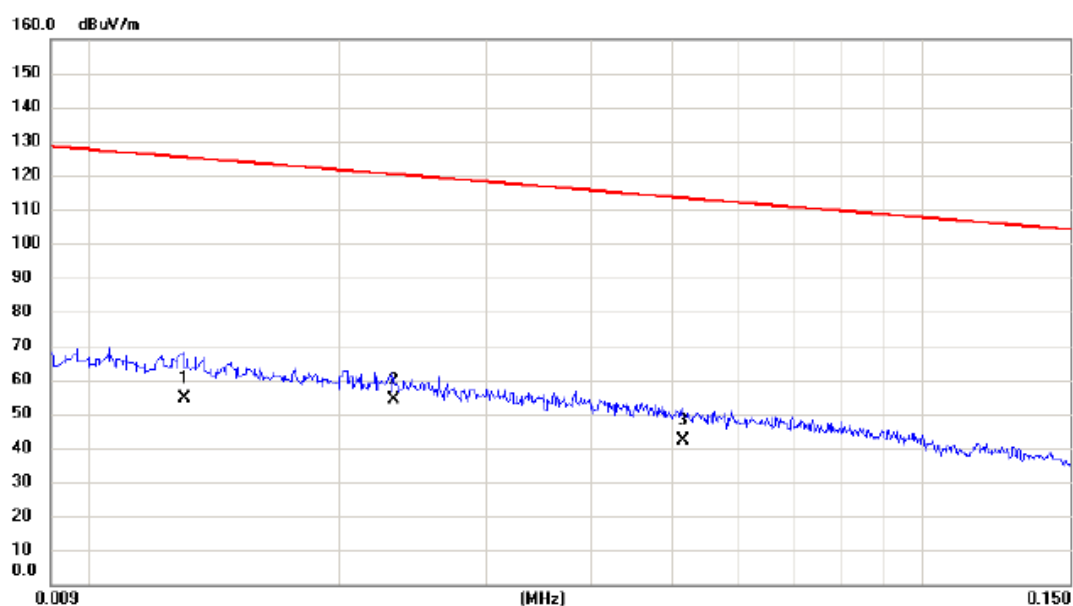


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	33.75	9.68	43.43	65.28	-21.85	Peak	
2 *	0.4965	29.21	9.70	38.91	56.06	-17.15	Peak	
3	0.9690	24.07	9.75	33.82	56.00	-22.18	Peak	
4	1.3020	23.19	9.76	32.95	56.00	-23.05	Peak	
5	7.2465	29.54	10.12	39.66	60.00	-20.34	Peak	
6	19.6125	26.73	10.74	37.47	60.00	-22.53	Peak	

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

Test Mode: TX Mode

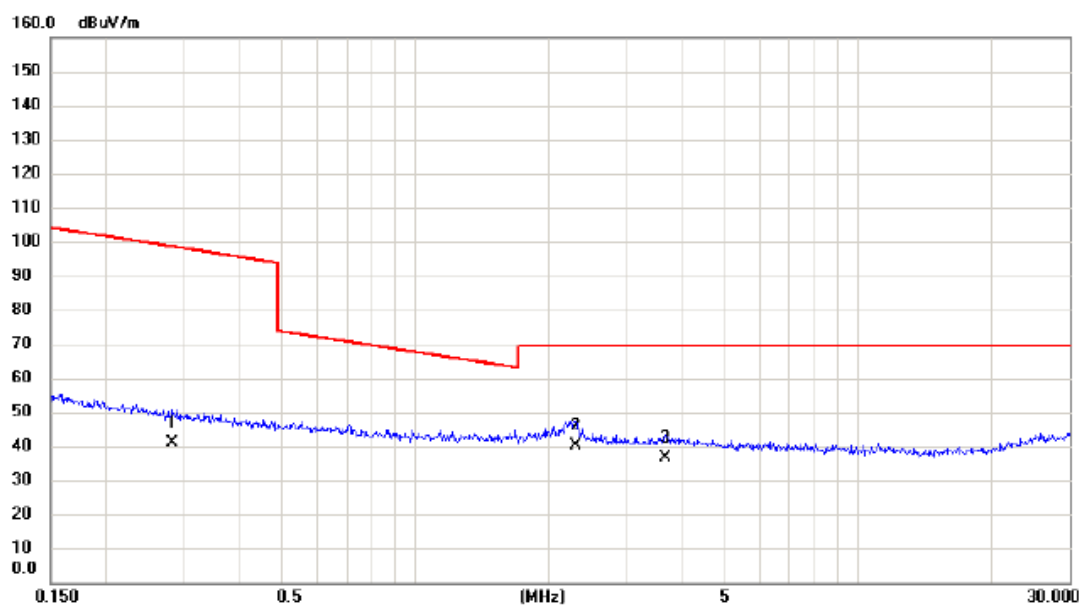
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0130	34.02	20.53	54.55	125.33	-70.78	AVG	
2	*	0.0232	34.70	19.52	54.22	120.30	-66.08	AVG	
3		0.0515	23.60	18.69	42.29	113.37	-71.08	AVG	

Test Mode: TX Mode

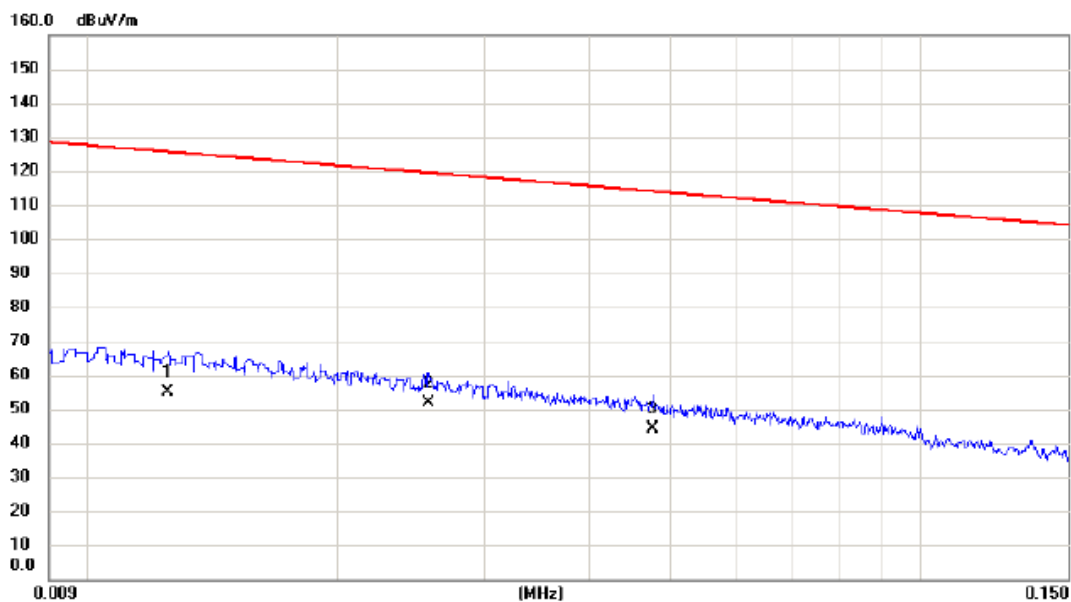
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2832	24.53	16.63	41.16	98.56	-57.40	AVG	
2	*	2.2967	24.92	15.43	40.35	69.54	-29.19	QP	
3		3.6611	21.38	15.04	36.42	69.54	-33.12	QP	

Test Mode: TX Mode

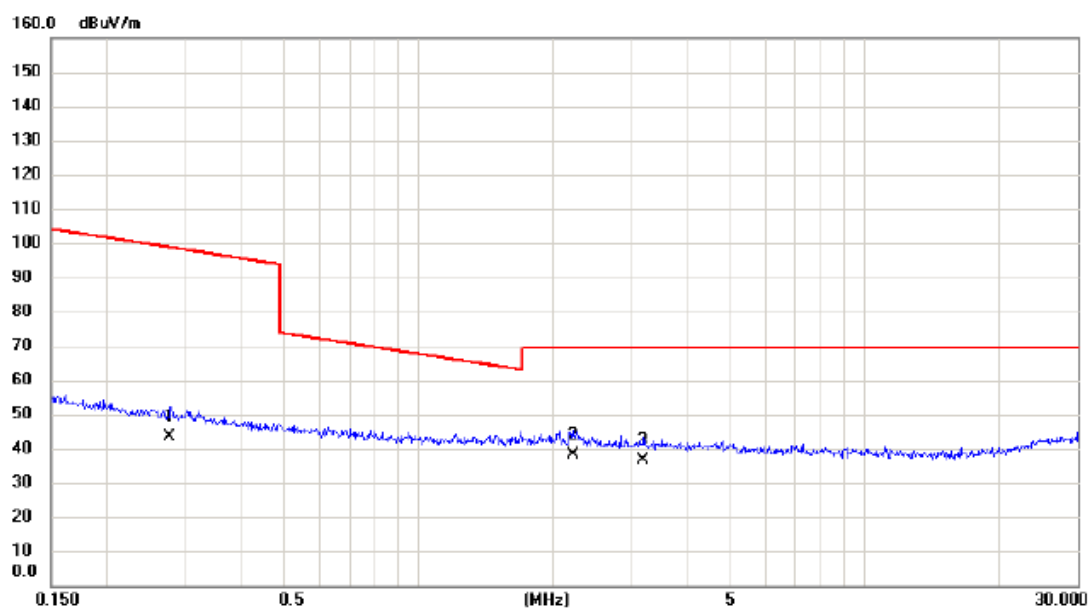
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0125	34.56	20.59	55.15	125.67	-70.52	AVG	
2	*	0.0257	32.54	19.45	51.99	119.41	-67.42	AVG	
3		0.0476	25.38	18.79	44.17	114.05	-69.88	AVG	

Test Mode: TX Mode

Ant 90°



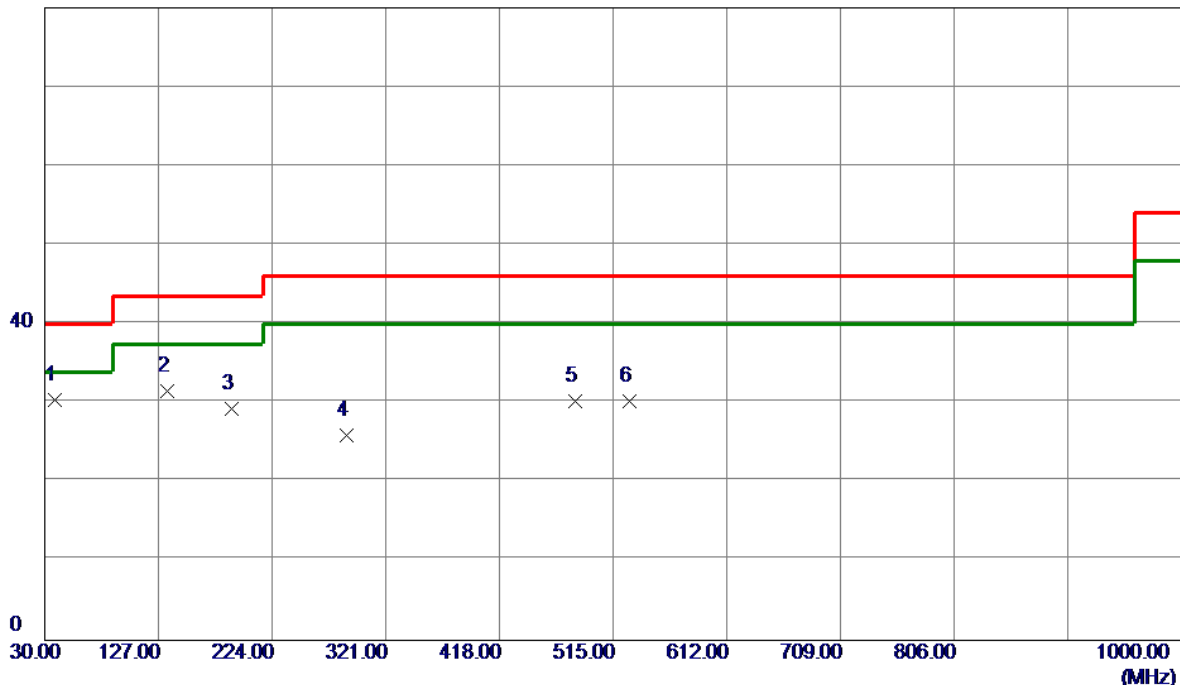
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2773	26.84	16.64	43.48	98.75	-55.27	AVG	
2	*	2.2132	22.76	15.45	38.21	69.54	-31.33	QP	
3		3.1900	21.55	15.17	36.72	69.54	-32.82	QP	

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

Test Mode: TX B MODE CHANNEL 01

Vertical

80 dBuV/m

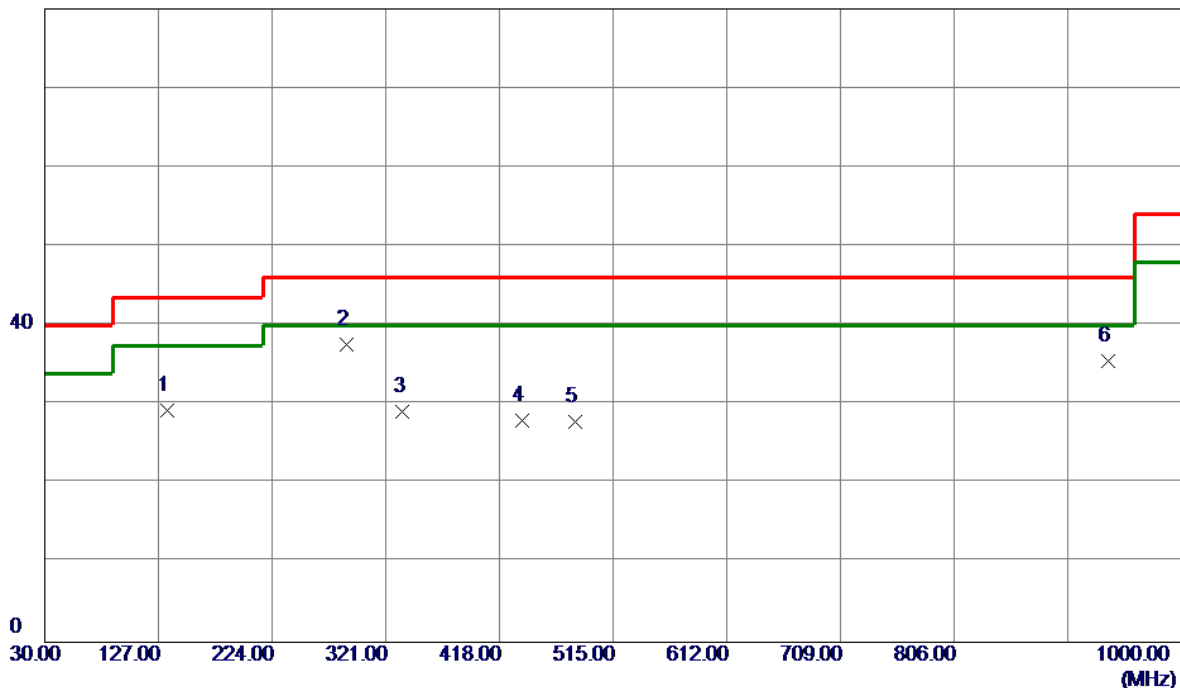


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	38.7300	44.52	-14.16	30.36	40.00	-9.64	Peak	
2	134.7600	45.97	-14.47	31.50	43.50	-12.00	Peak	
3	189.0800	42.11	-12.77	29.34	43.50	-14.16	Peak	
4	288.0200	40.24	-14.31	25.93	46.00	-20.07	Peak	
5	482.9900	39.44	-9.14	30.30	46.00	-15.70	Peak	
6	528.5800	38.40	-8.15	30.25	46.00	-15.75	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

80 dBuV/m

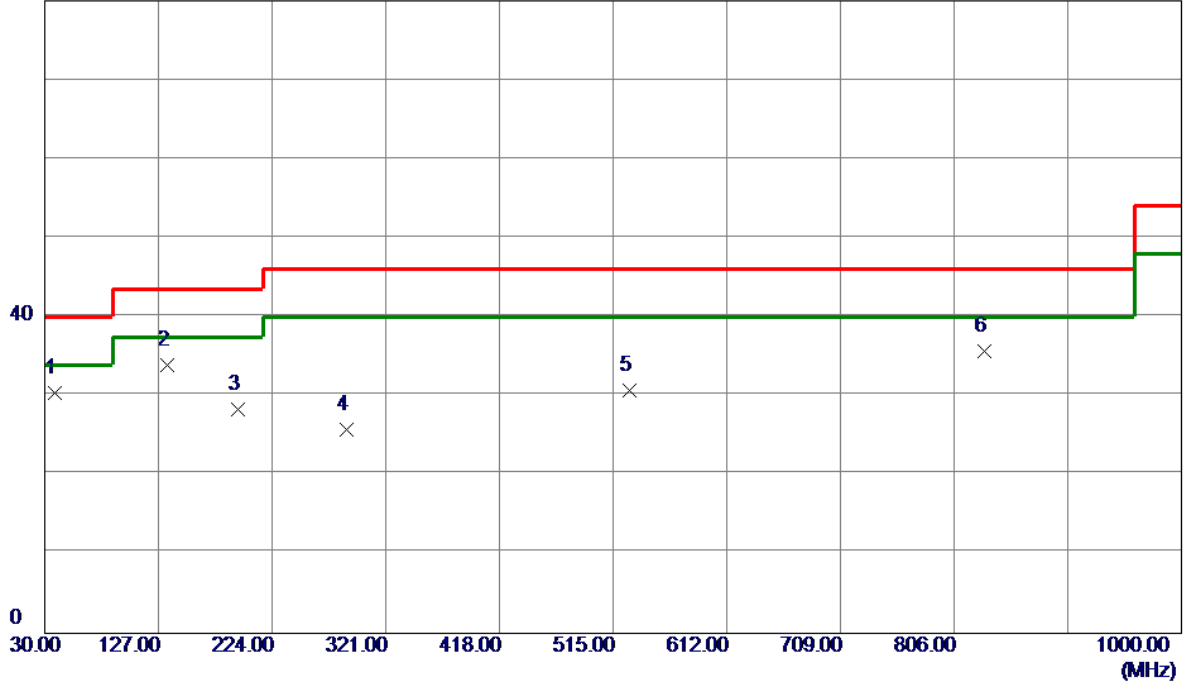


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	134.7600	43.79	-14.47	29.32	43.50	-14.18	Peak	
2 *	288.0200	51.91	-14.31	37.60	46.00	-8.40	Peak	
3	335.5500	41.39	-12.21	29.18	46.00	-16.82	Peak	
4	437.4000	38.32	-10.30	28.02	46.00	-17.98	Peak	
5	482.9900	37.02	-9.14	27.88	46.00	-18.12	Peak	
6	936.9500	33.73	1.74	35.47	46.00	-10.53	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

80 dBuV/m

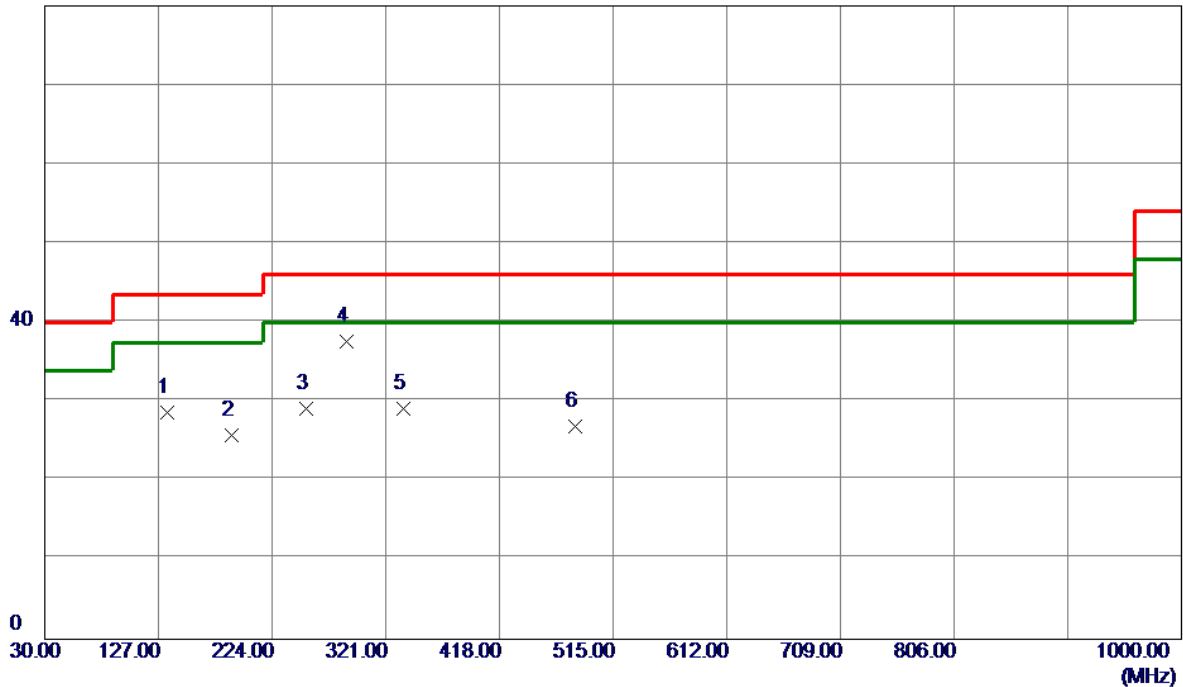


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	38.7300	44.59	-14.16	30.43	40.00	-9.57	Peak	
2 *	134.7600	48.46	-14.47	33.99	43.50	-9.51	Peak	
3	194.9000	41.54	-13.29	28.25	43.50	-15.25	Peak	
4	288.0200	40.13	-14.31	25.82	46.00	-20.18	Peak	
5	528.5800	38.87	-8.15	30.72	46.00	-15.28	Peak	
6	832.1900	36.20	-0.48	35.72	46.00	-10.28	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

80 dBuV/m

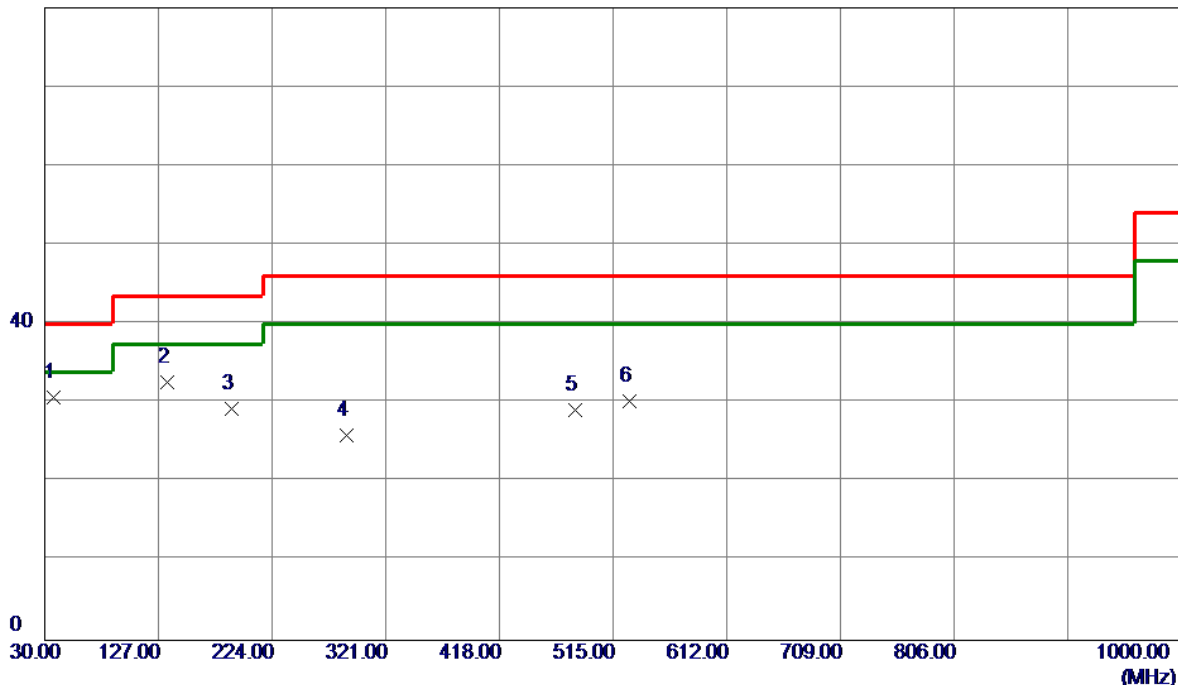


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	134.7600	43.15	-14.47	28.68	43.50	-14.82	Peak	
2	189.0800	38.57	-12.77	25.80	43.50	-17.70	Peak	
3	253.1000	44.26	-15.14	29.12	46.00	-16.88	Peak	
4 *	288.0200	51.94	-14.31	37.63	46.00	-8.37	Peak	
5	336.5200	41.33	-12.19	29.14	46.00	-16.86	Peak	
6	482.9900	35.96	-9.14	26.82	46.00	-19.18	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

80 dBuV/m

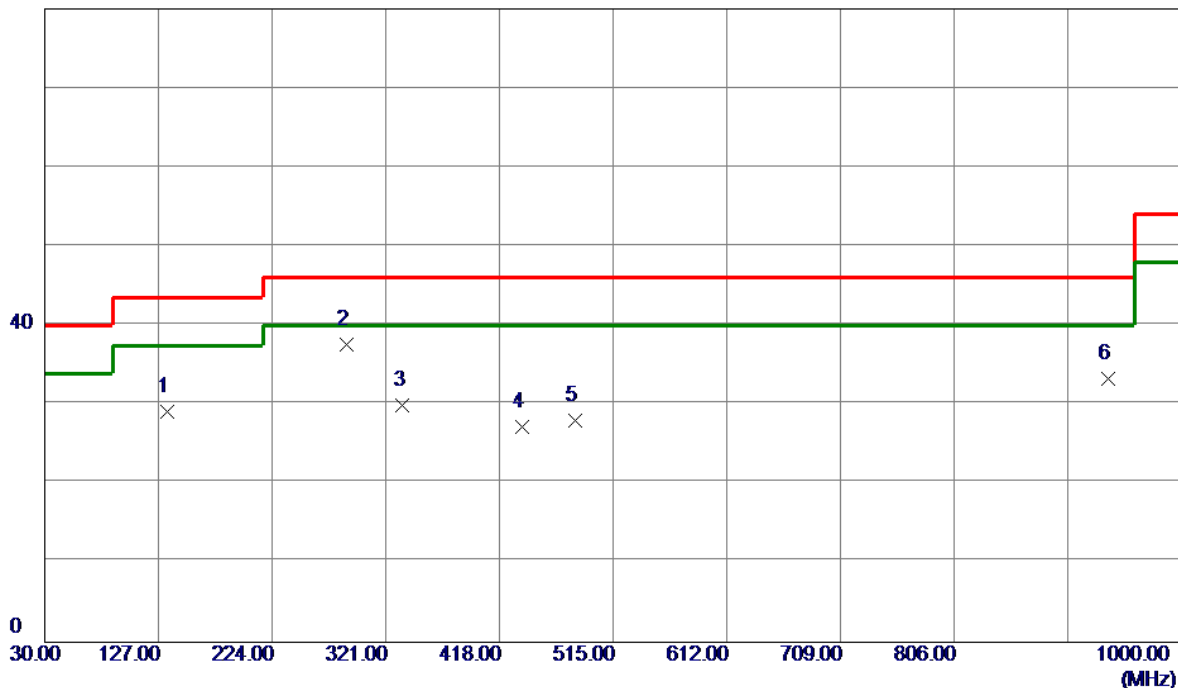


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	37.7599	45.08	-14.30	30.78	40.00	-9.22	Peak	
2	134.7600	47.05	-14.47	32.58	43.50	-10.92	Peak	
3	189.0800	42.01	-12.77	29.24	43.50	-14.26	Peak	
4	288.0200	40.20	-14.31	25.89	46.00	-20.11	Peak	
5	482.9900	38.21	-9.14	29.07	46.00	-16.93	Peak	
6	528.5800	38.39	-8.15	30.24	46.00	-15.76	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

80 dBuV/m

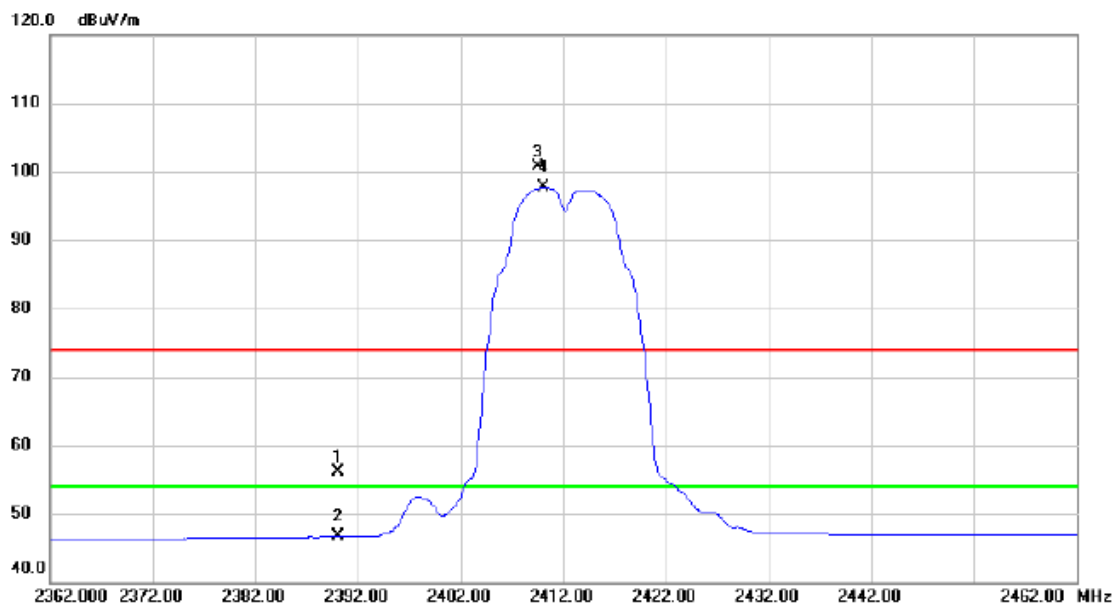


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	134.7600	43.57	-14.47	29.10	43.50	-14.40	Peak	
2 *	288.0200	51.95	-14.31	37.64	46.00	-8.36	Peak	
3	335.5500	42.12	-12.21	29.91	46.00	-16.09	Peak	
4	437.4000	37.56	-10.30	27.26	46.00	-18.74	Peak	
5	482.9900	37.21	-9.14	28.07	46.00	-17.93	Peak	
6	936.9500	31.51	1.74	33.25	46.00	-12.75	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

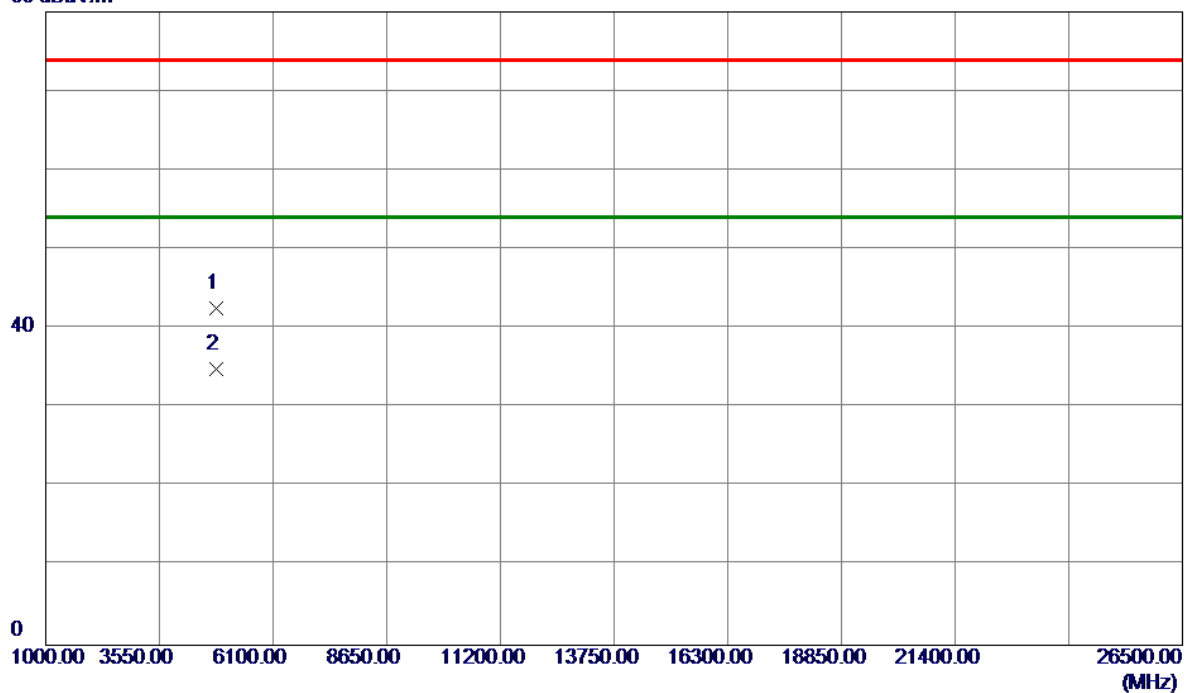


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.12	33.05	56.17	74.00	-17.83	peak	
2		2390.000	13.66	33.05	46.71	54.00	-7.29	AVG	
3	X	2409.500	67.64	33.13	100.77	74.00	26.77	peak	No Limit
4	*	2410.000	64.55	33.14	97.69	54.00	43.69	AVG	No Limit

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

Vertical

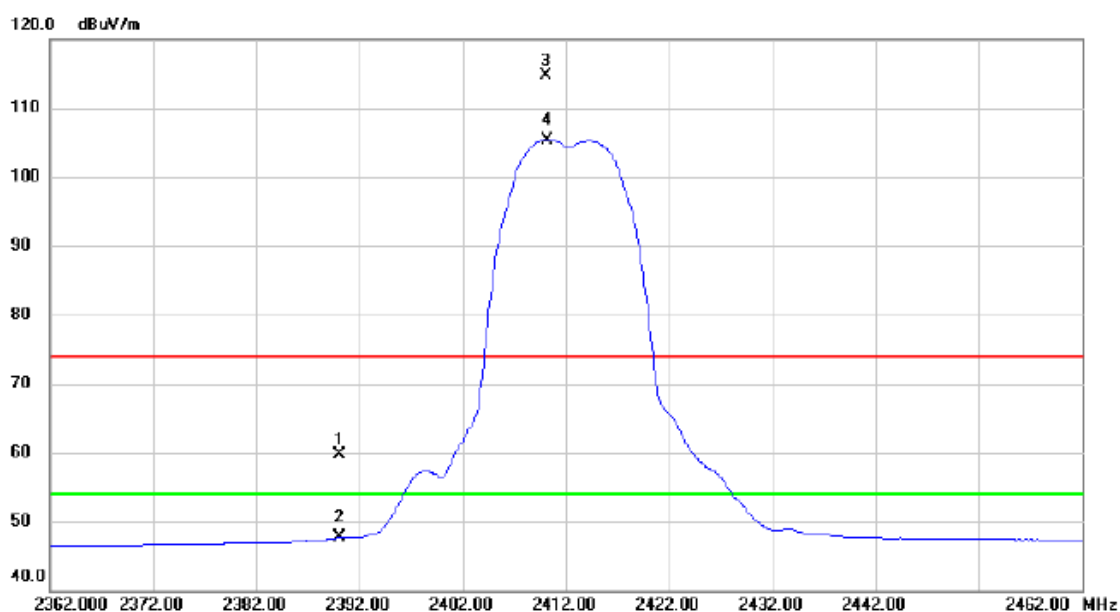
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.1750	35.97	6.66	42.63	74.00	-31.37	Peak	
2 *	4824.3200	28.24	6.66	34.90	54.00	-19.10	AVG	

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

Horizontal

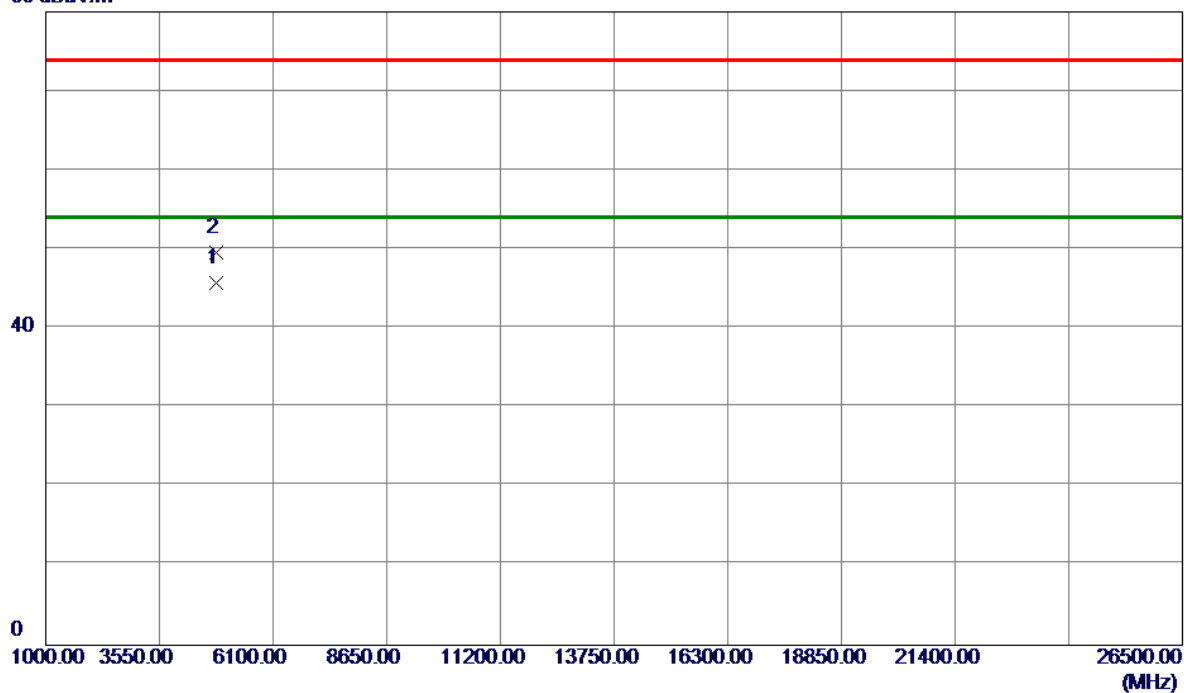


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.56	33.05	59.61	74.00	-14.39	peak	
2		2390.000	14.59	33.05	47.64	54.00	-6.36	AVG	
3	X	2410.100	81.47	33.14	114.61	74.00	40.61	peak	No Limit
4	*	2410.200	72.19	33.14	105.33	54.00	51.33	AVG	No Limit

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

Horizontal

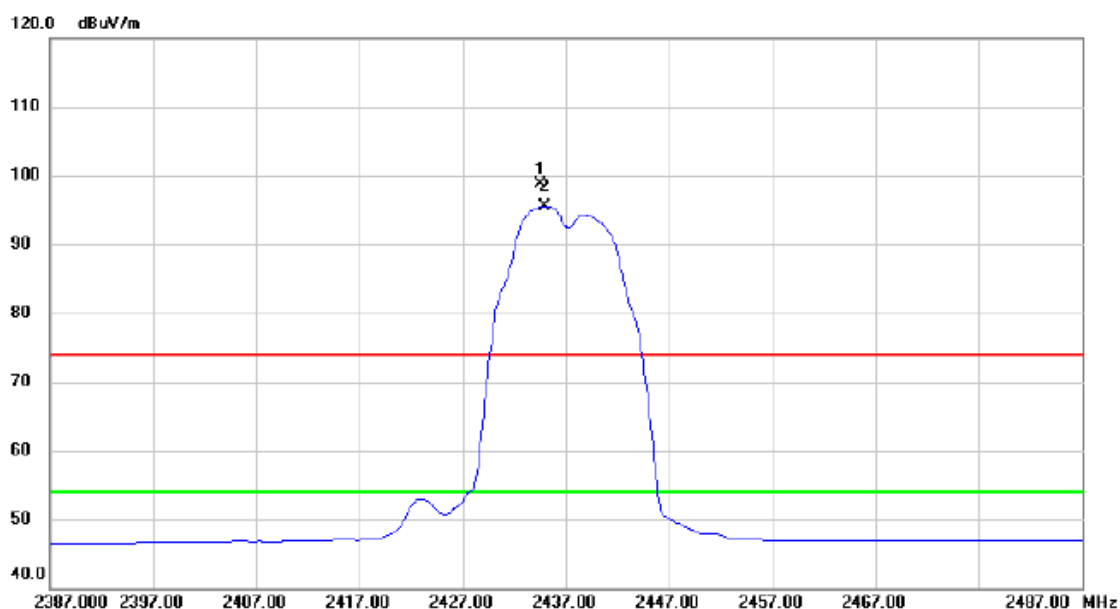
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.2550	39.07	6.66	45.73	54.00	-8.27	AVG	
2	4824.1850	42.93	6.66	49.59	74.00	-24.41	Peak	

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

Vertical

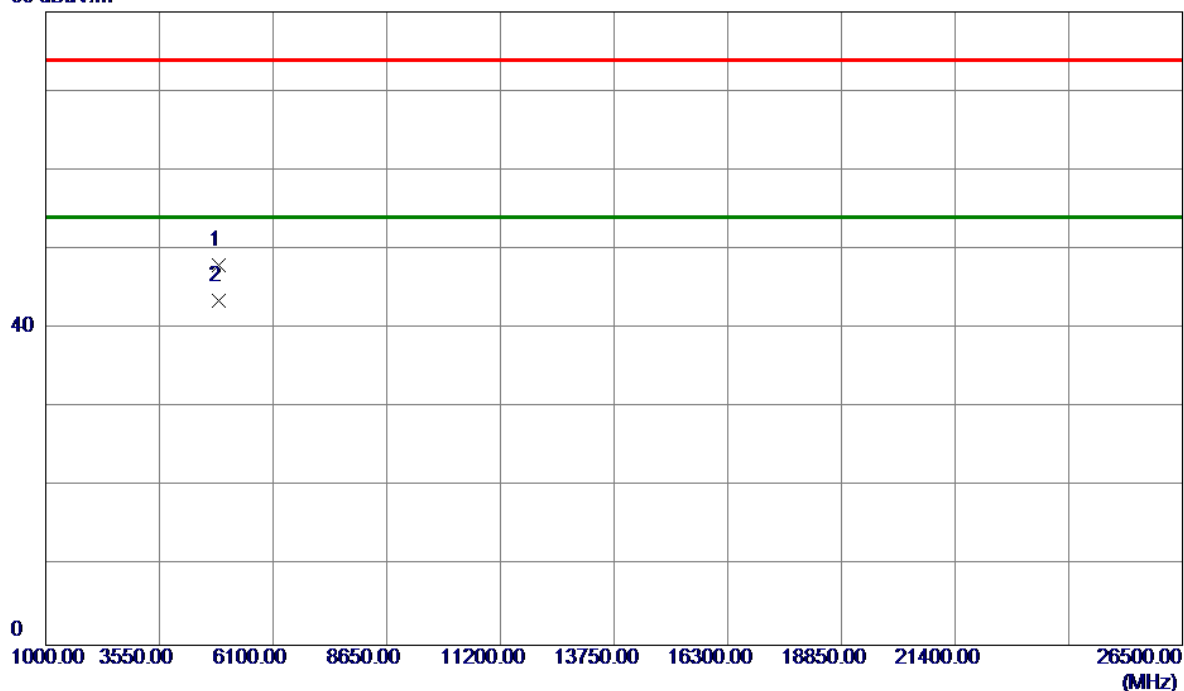


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2434.500	65.55	33.22	98.77	74.00	24.77	peak	No Limit
2	*	2434.900	62.35	33.22	95.57	54.00	41.57	AVG	No Limit

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

Vertical

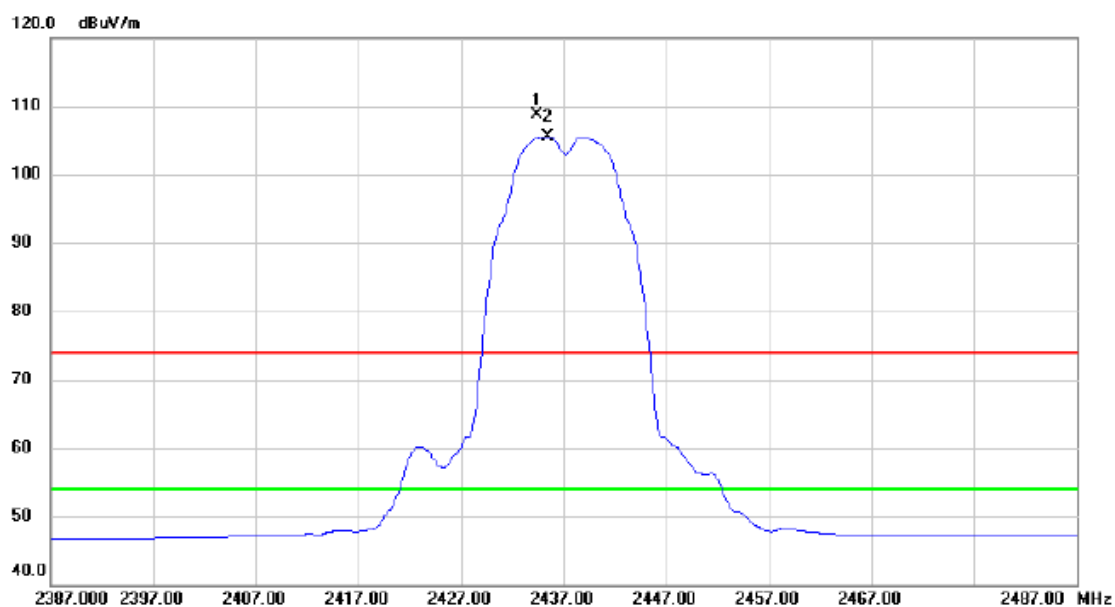
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1200	41.20	6.84	48.04	74.00	-25.96	Peak	
2 *	4874.3849	36.63	6.84	43.47	54.00	-10.53	AVG	

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

Horizontal

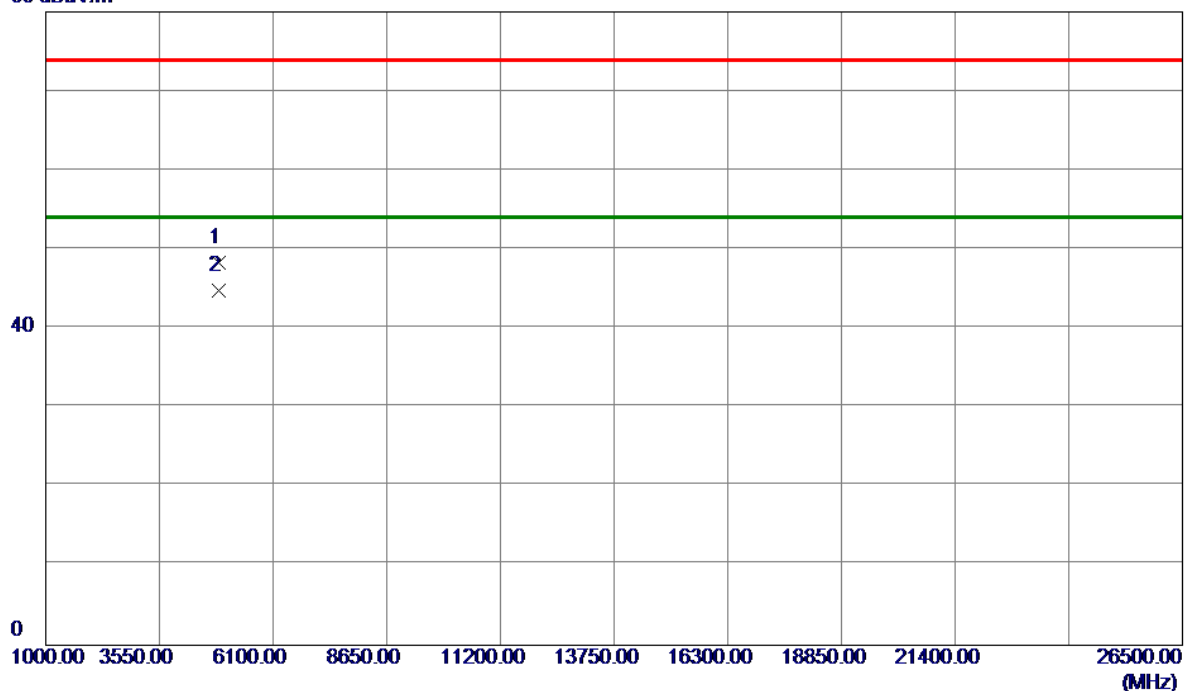


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2434.400	75.40	33.22	108.62	74.00	34.62	peak	No Limit
2	*	2435.400	72.36	33.23	105.59	54.00	51.59	AVG	No Limit

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

Horizontal

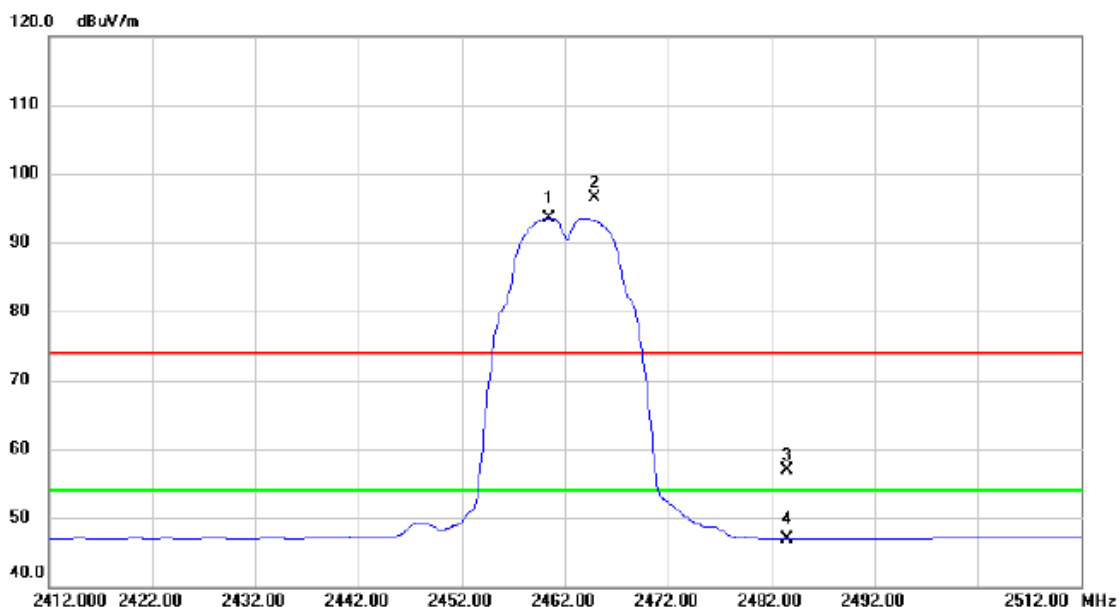
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.2599	41.42	6.84	48.26	74.00	-25.74	Peak	
2 *	4874.2599	37.91	6.84	44.75	54.00	-9.25	AVG	

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

Vertical

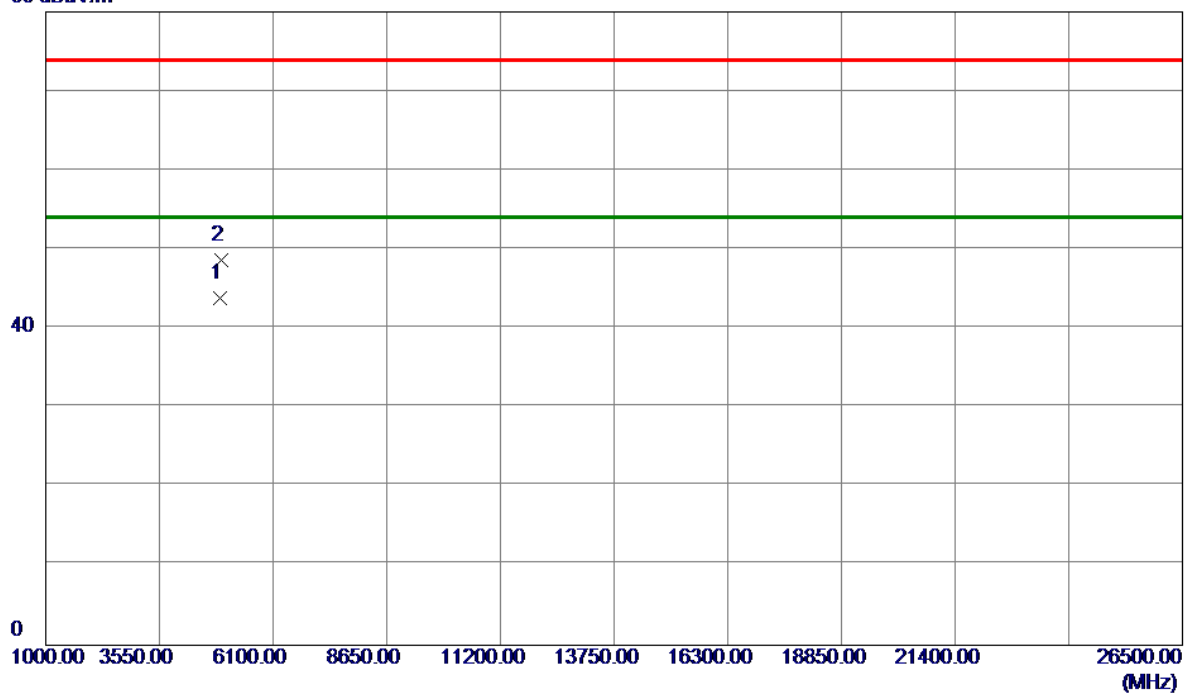


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2460.400	60.20	33.32	93.52	54.00	39.52	AVG	No Limit
2	X	2464.900	63.16	33.34	96.50	74.00	22.50	peak	No Limit
3		2483.500	23.44	33.41	56.85	74.00	-17.15	peak	
4		2483.500	13.56	33.41	46.97	54.00	-7.03	AVG	

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

Vertical

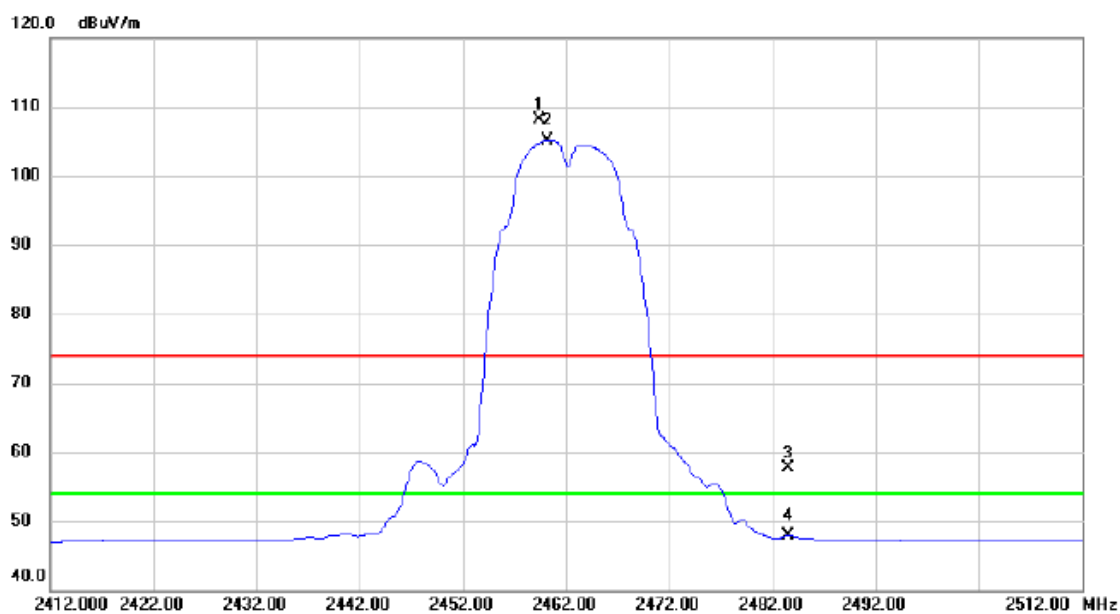
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.6450	36.79	7.01	43.80	54.00	-10.20	AVG	
2	4926.3550	41.58	7.03	48.61	74.00	-25.39	Peak	

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

Horizontal

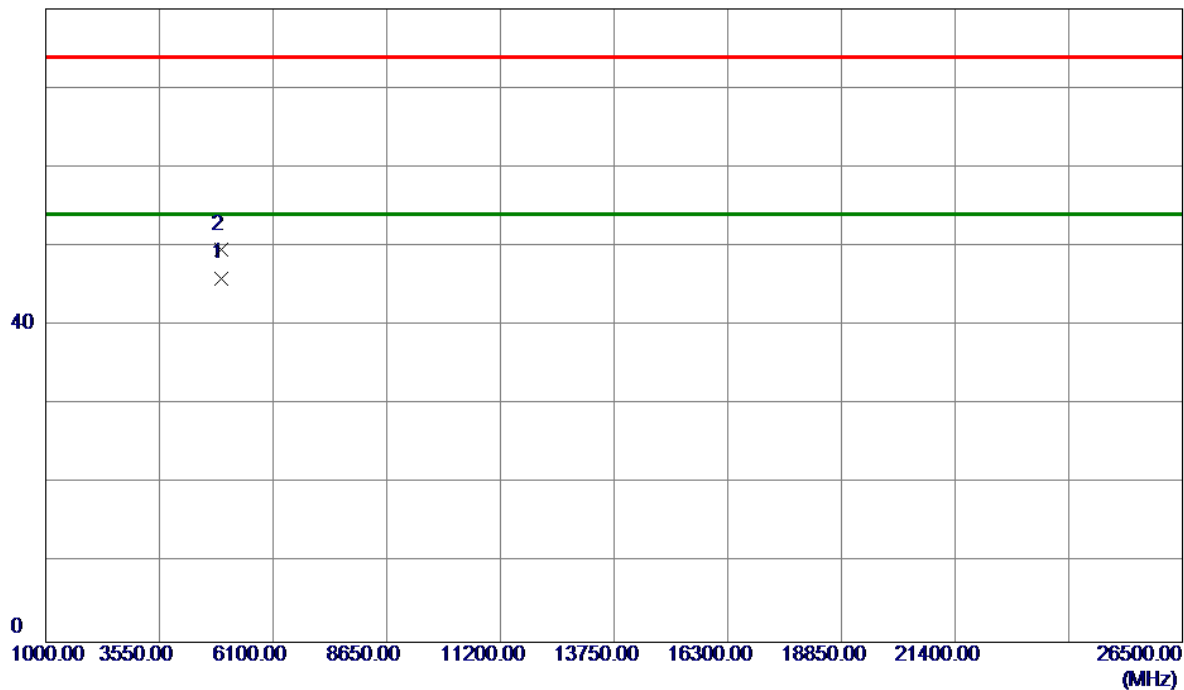


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.400	74.77	33.31	108.08	74.00	34.08	peak	No Limit
2	*	2460.200	71.81	33.32	105.13	54.00	51.13	AVG	No Limit
3		2483.500	24.36	33.41	57.77	74.00	-16.23	peak	
4		2483.500	14.47	33.41	47.88	54.00	-6.12	AVG	

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

Horizontal

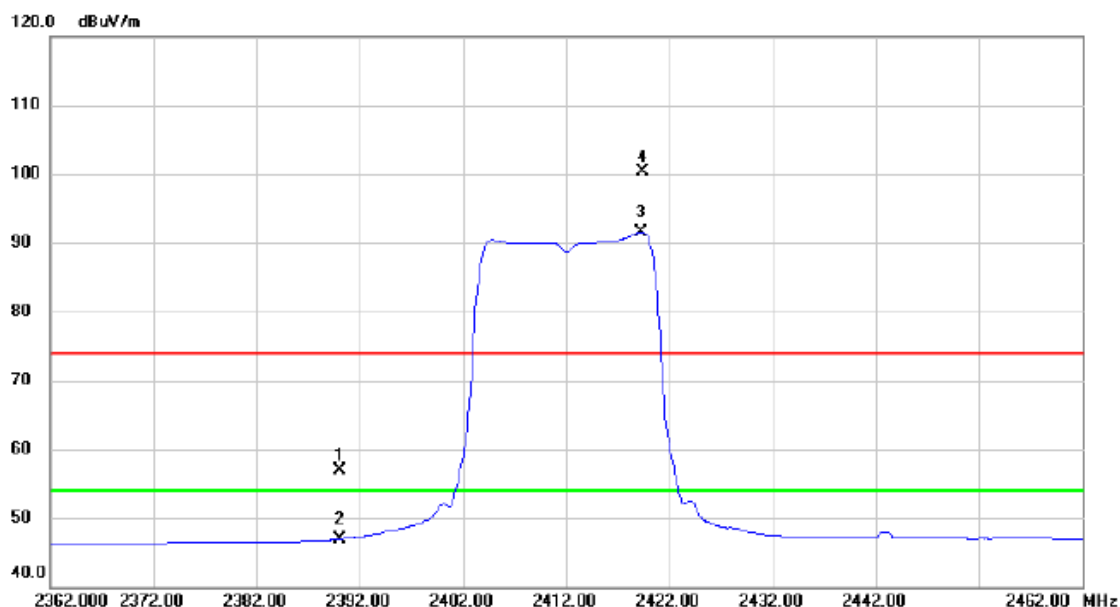
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.2650	38.98	7.02	46.00	54.00	-8.00	AVG	
2	4924.3600	42.56	7.02	49.58	74.00	-24.42	Peak	

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

Vertical

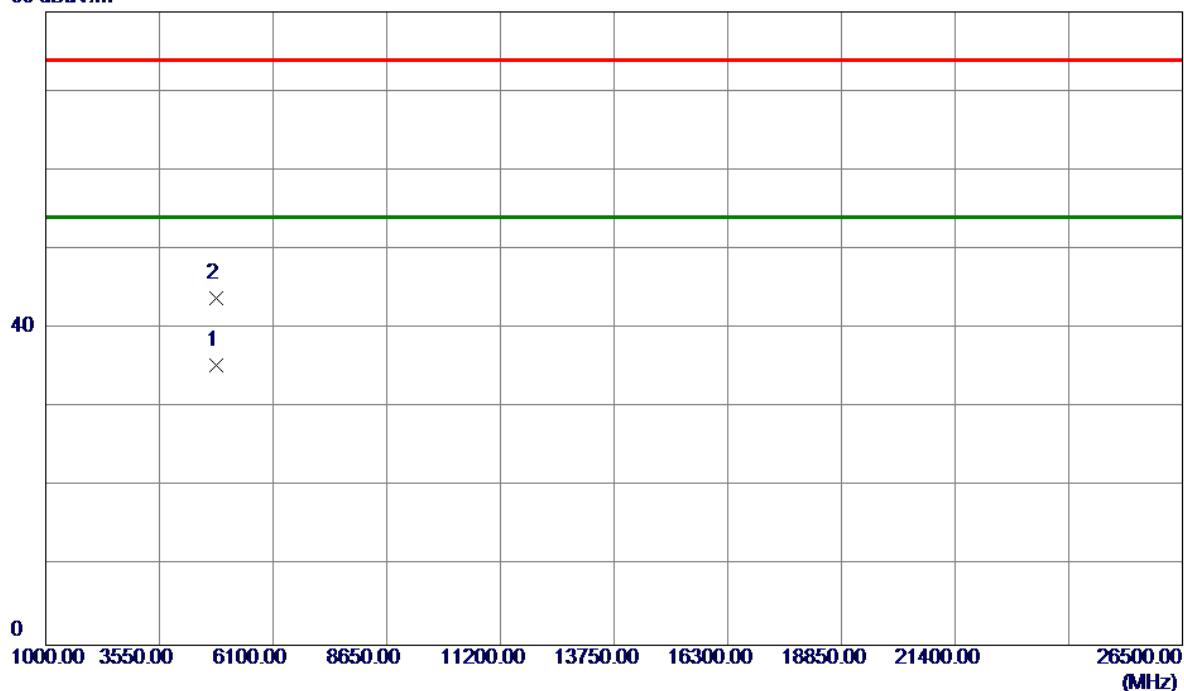


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.88	33.05	56.93	74.00	-17.07	peak	
2		2390.000	13.88	33.05	46.93	54.00	-7.07	AVG	
3	*	2419.300	58.39	33.17	91.56	54.00	37.56	AVG	No Limit
4	X	2419.400	67.08	33.17	100.25	74.00	26.25	peak	No Limit

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

Vertical

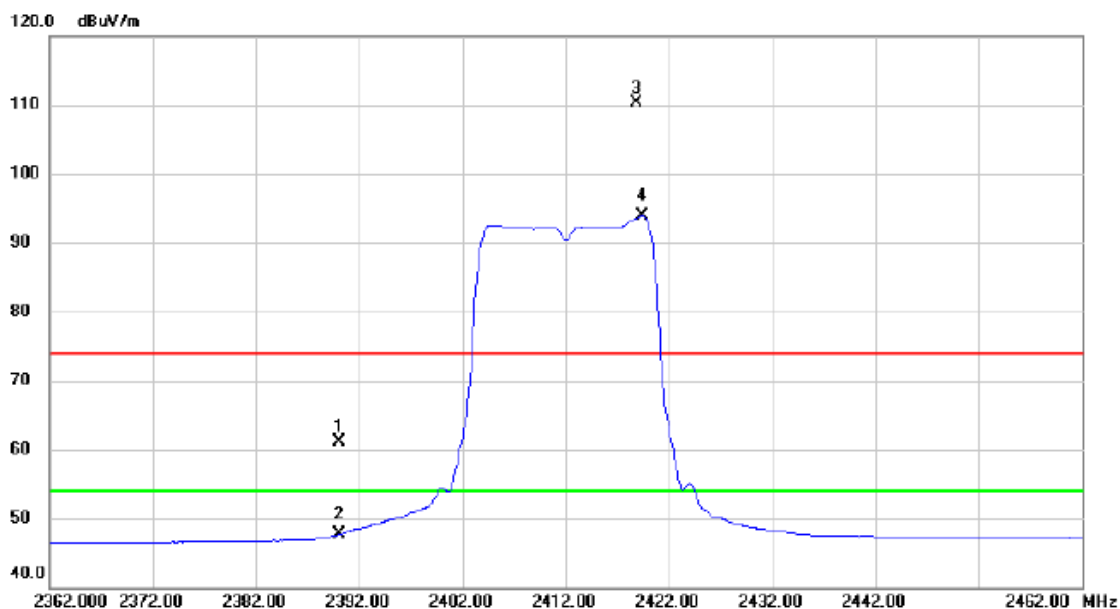
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.8650	28.74	6.66	35.40	54.00	-18.60	AVG	
2	4826.0700	37.14	6.67	43.81	74.00	-30.19	Peak	

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

Horizontal

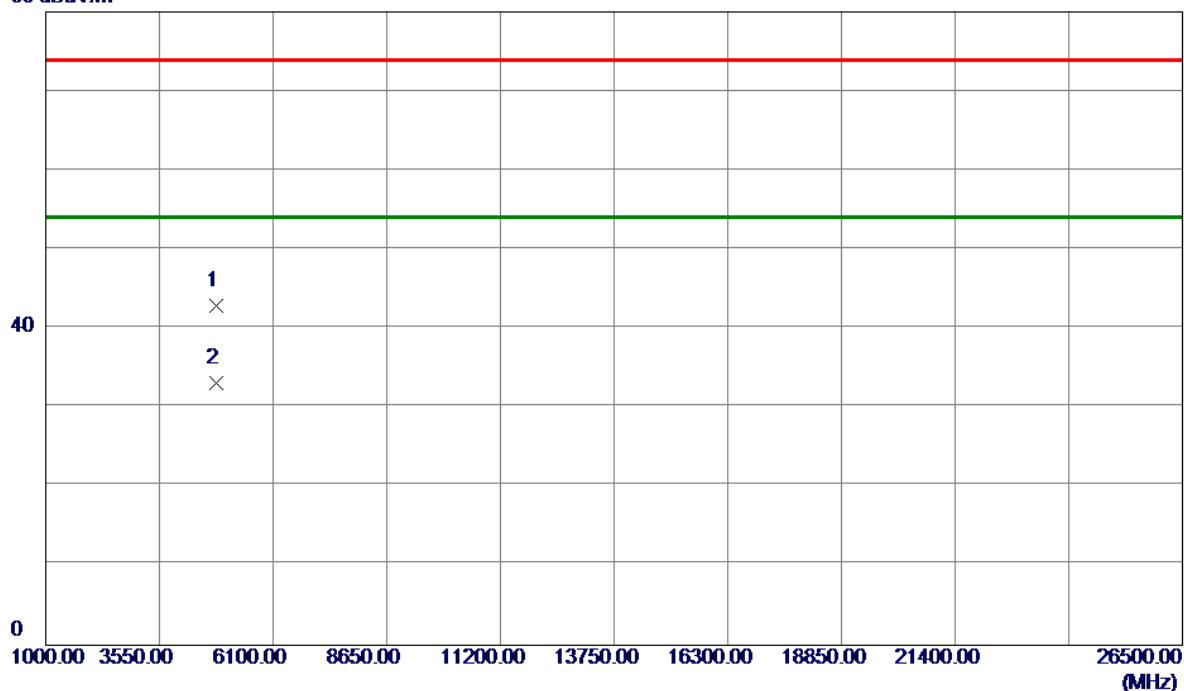


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.96	33.05	61.01	74.00	-12.99	peak	
2		2390.000	14.60	33.05	47.65	54.00	-6.35	AVG	
3	X	2418.900	77.17	33.17	110.34	74.00	36.34	peak	No Limit
4	*	2419.400	60.70	33.17	93.87	54.00	39.87	AVG	No Limit

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

Horizontal

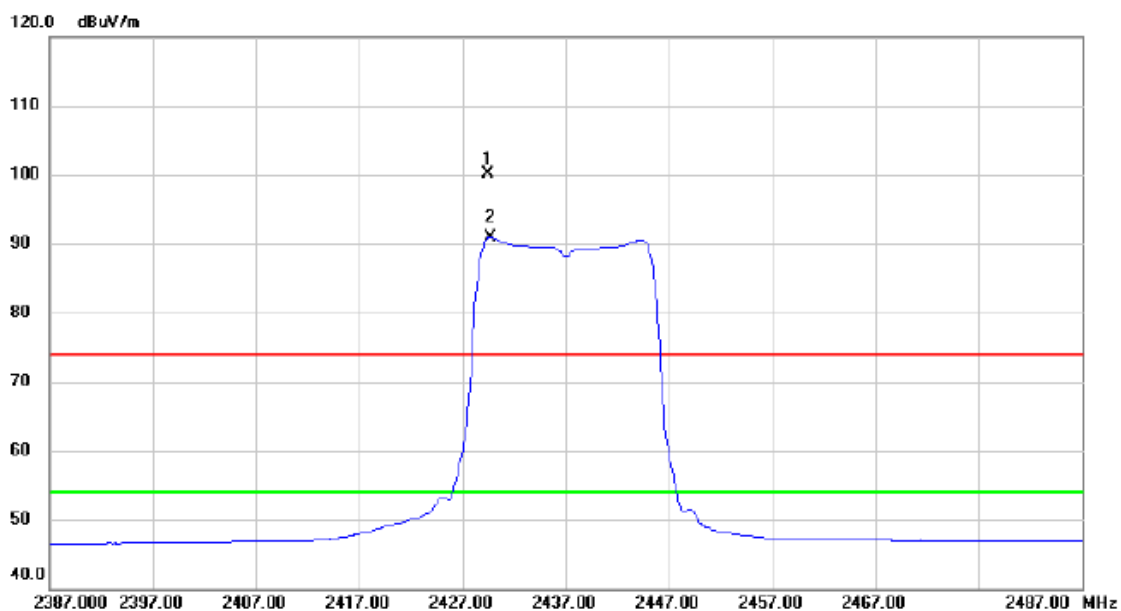
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8500	36.17	6.66	42.83	74.00	-31.17	Peak	
2 *	4823.9350	26.43	6.66	33.09	54.00	-20.91	AVG	

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

Vertical

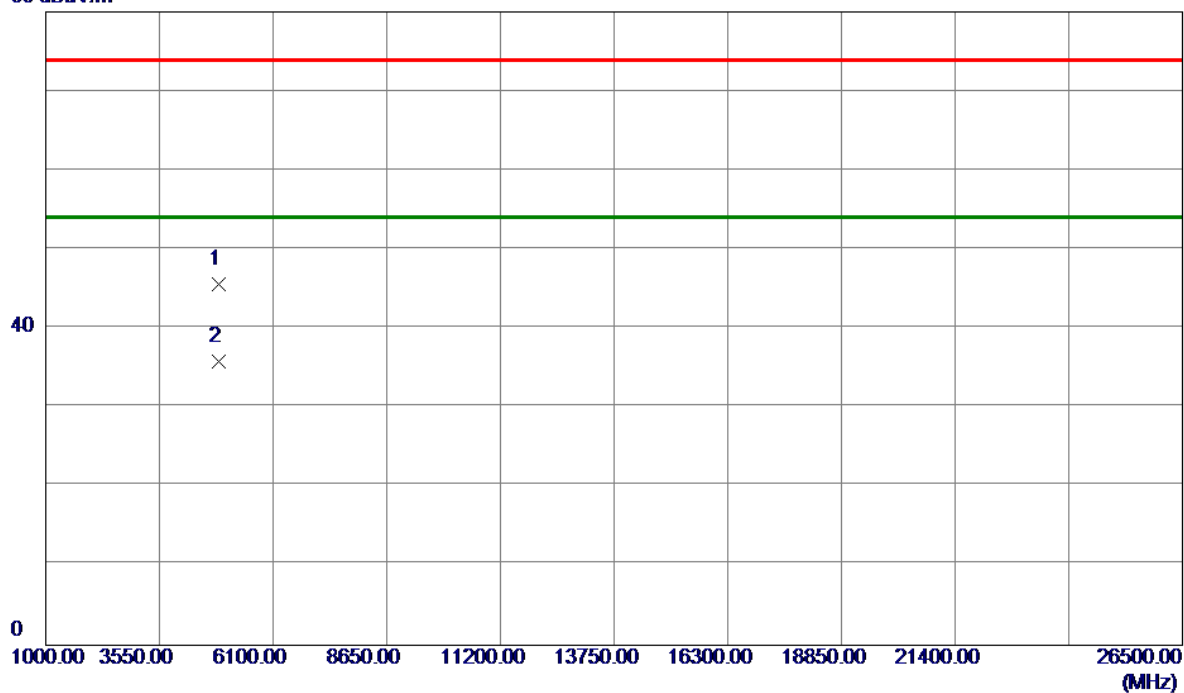


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2429.400	66.89	33.21	100.10	74.00	26.10	peak	No Limit
2	*	2429.700	57.68	33.21	90.89	54.00	36.89	AVG	No Limit

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

Vertical

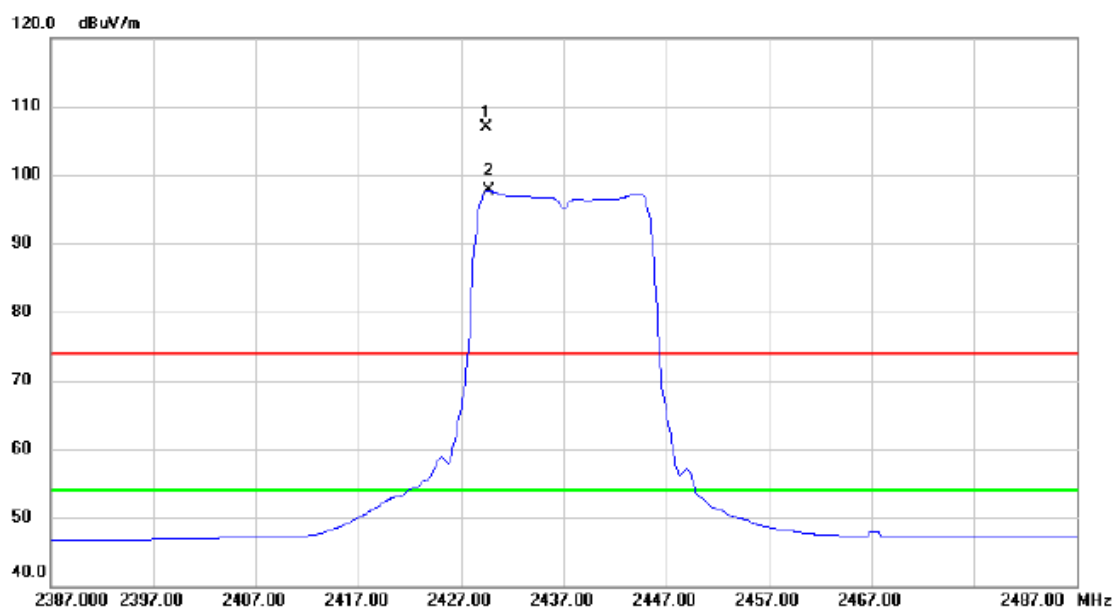
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.2350	38.72	6.84	45.56	74.00	-28.44	Peak	
2 *	4874.3450	29.08	6.84	35.92	54.00	-18.08	AVG	

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

Horizontal

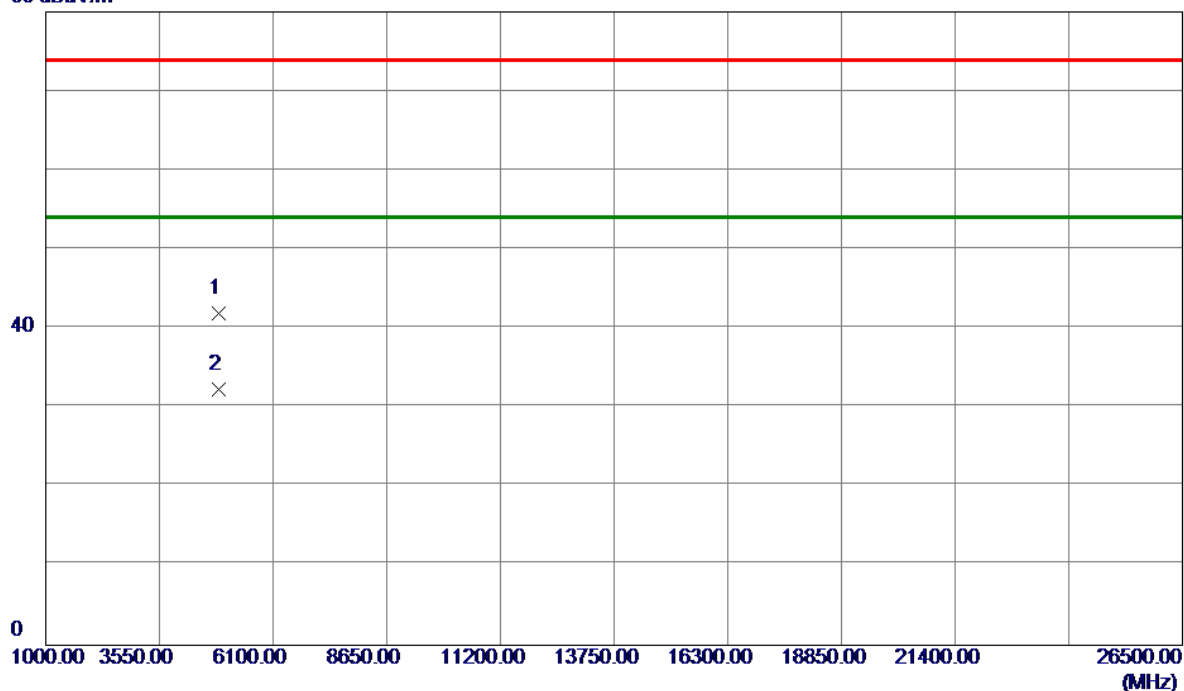


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2429.400	73.69	33.21	106.90	74.00	32.90	peak	No Limit
2	*	2429.700	64.56	33.21	97.77	54.00	43.77	AVG	No Limit

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

Horizontal

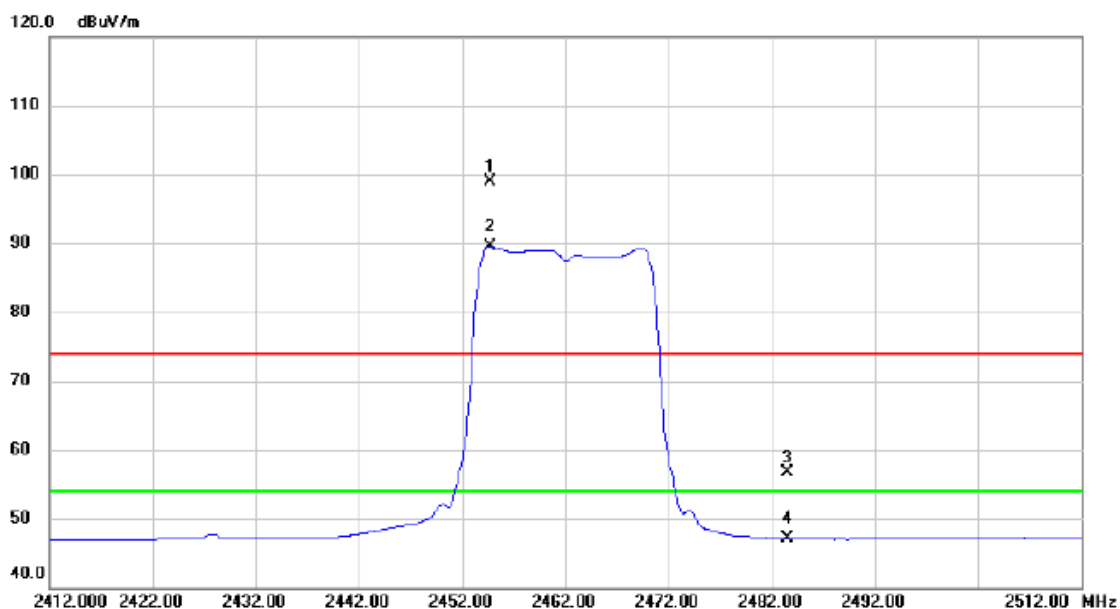
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4875.2300	35.09	6.84	41.93	74.00	-32.07	Peak	
2 *	4875.3750	25.48	6.84	32.32	54.00	-21.68	AVG	

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

Vertical

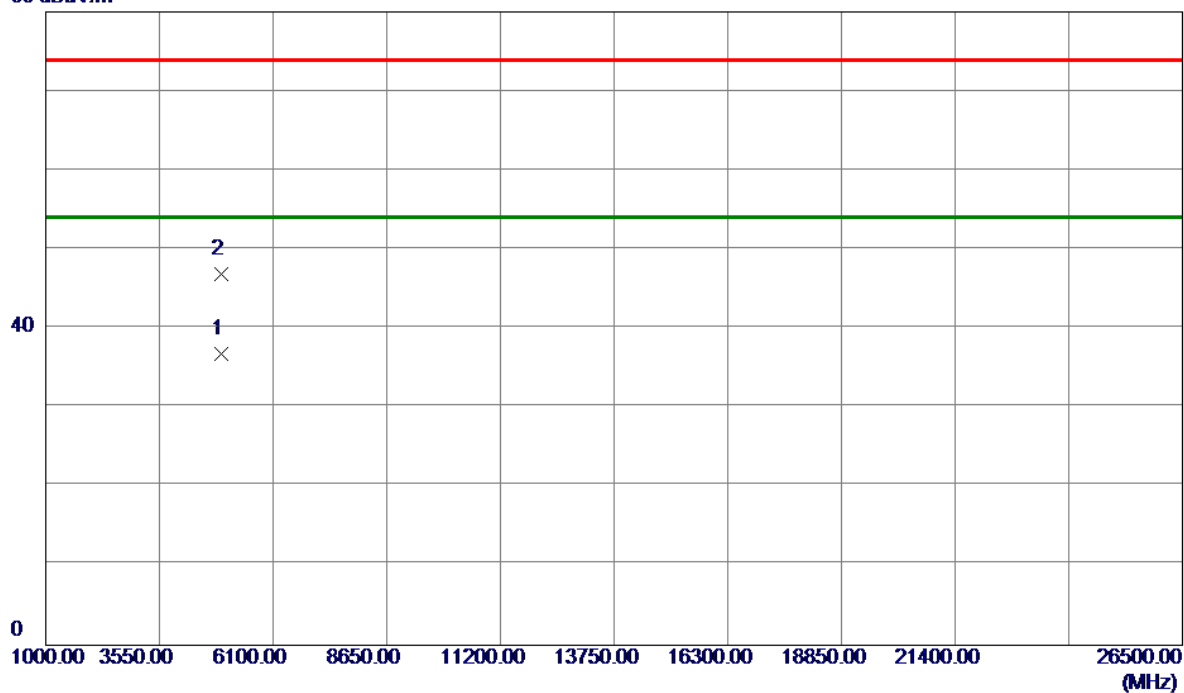


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2454.700	65.58	33.30	98.88	74.00	24.88	peak	No Limit
2	*	2454.700	56.27	33.30	89.57	54.00	35.57	AVG	No Limit
3		2483.500	23.26	33.41	56.67	74.00	-17.33	peak	
4		2483.500	13.71	33.41	47.12	54.00	-6.88	AVG	

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

Vertical

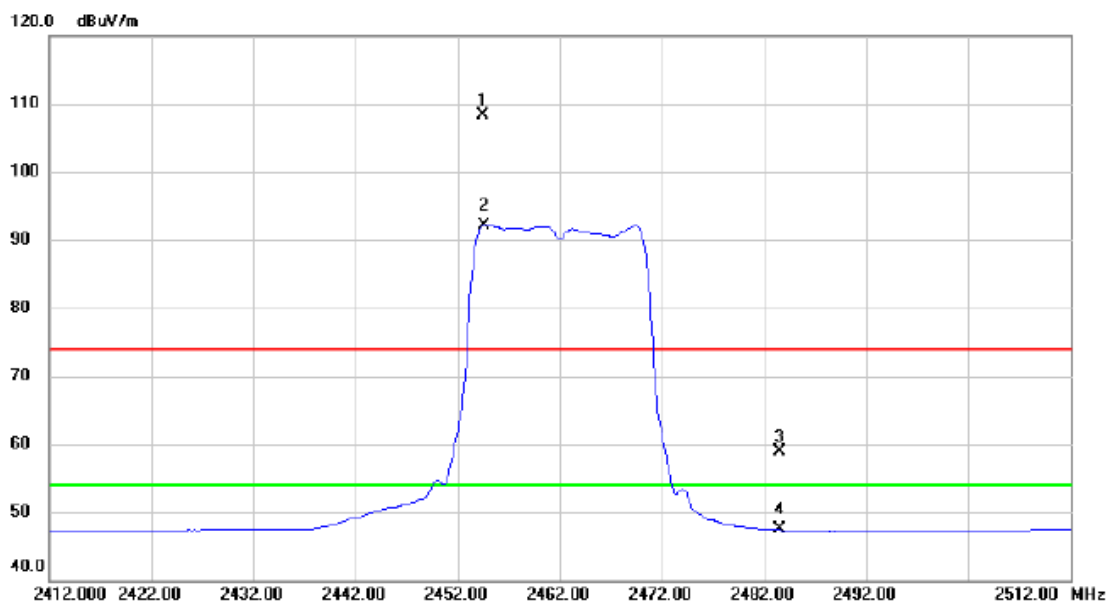
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.2750	29.73	7.02	36.75	54.00	-17.25	AVG	
2	4926.3250	39.87	7.03	46.90	74.00	-27.10	Peak	

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

Horizontal

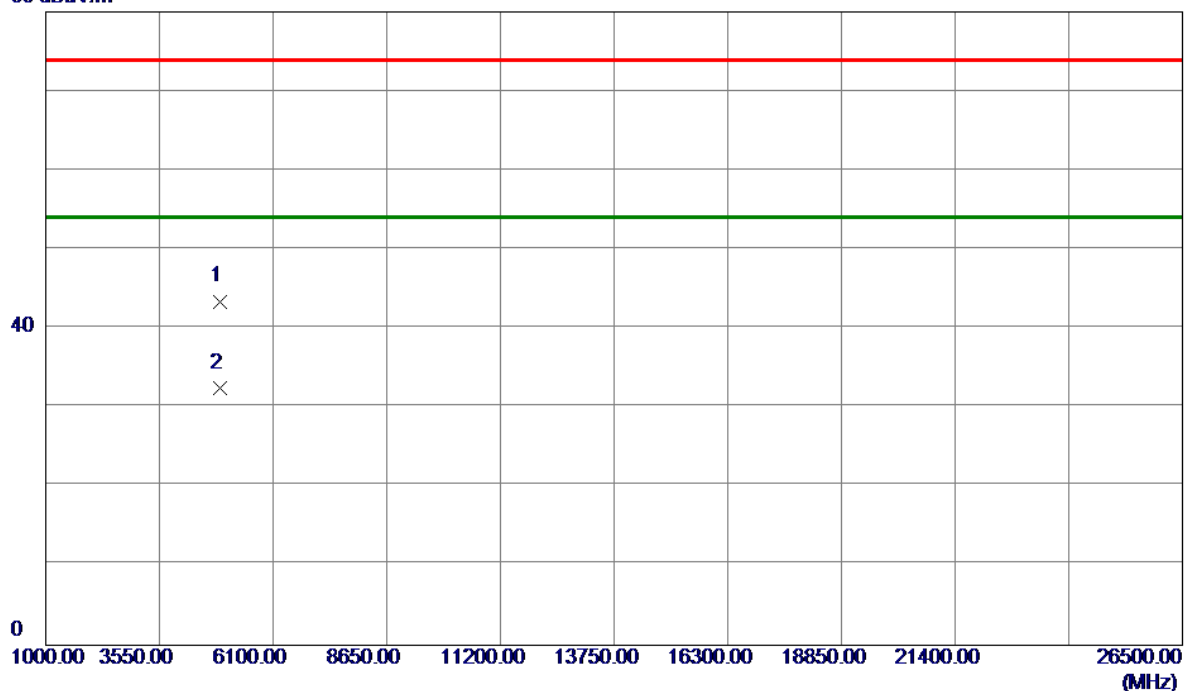


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2454.500	74.91	33.30	108.21	74.00	34.21	peak	No Limit
2	*	2454.600	58.90	33.30	92.20	54.00	38.20	AVG	No Limit
3		2483.500	25.43	33.41	58.84	74.00	-15.16	peak	
4		2483.500	14.01	33.41	47.42	54.00	-6.58	AVG	

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

Horizontal

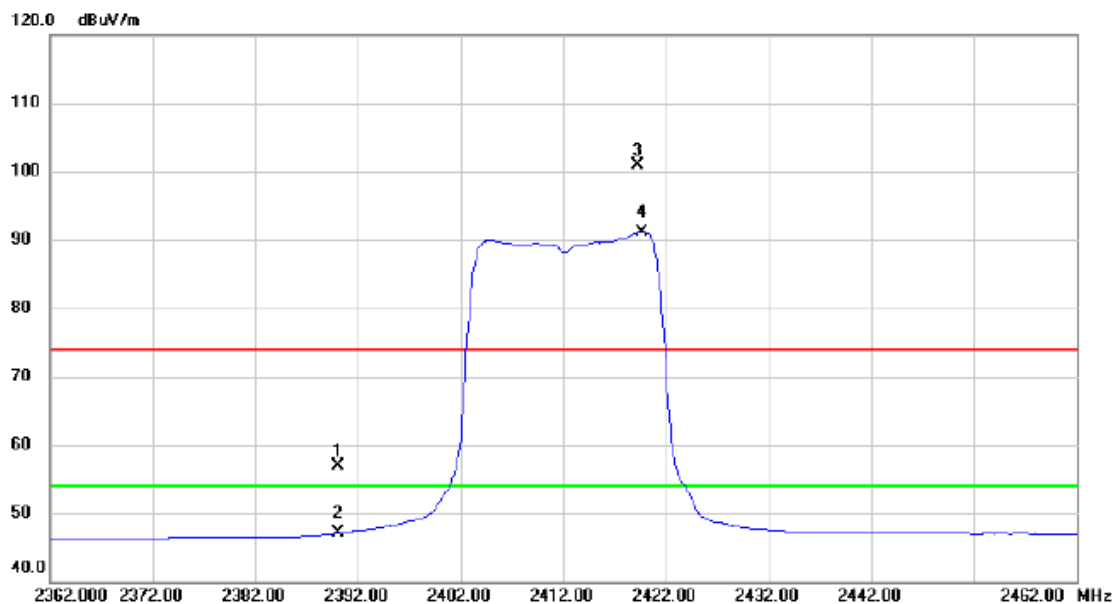
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.5000	36.43	7.01	43.44	74.00	-30.56	Peak	
2 *	4924.0600	25.50	7.02	32.52	54.00	-21.48	AVG	

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

Vertical

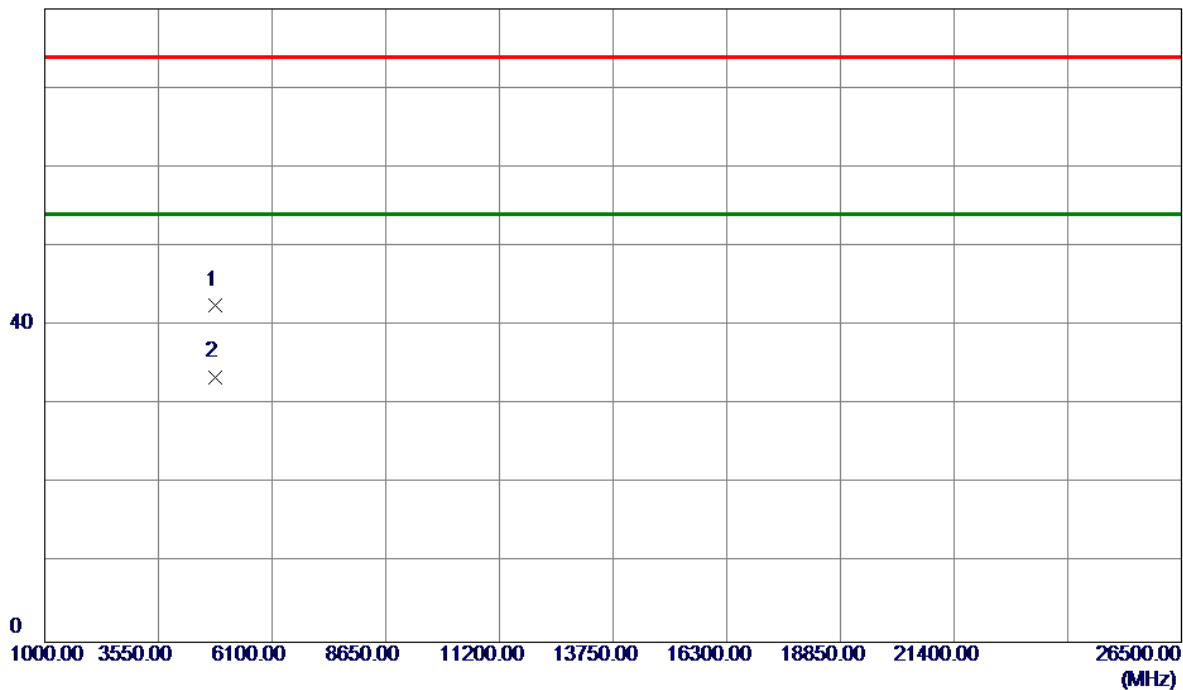


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.89	33.05	56.94	74.00	-17.06	peak	
2		2390.000	13.99	33.05	47.04	54.00	-6.96	AVG	
3	X	2419.300	67.67	33.17	100.84	74.00	26.84	peak	No Limit
4	*	2419.700	57.94	33.17	91.11	54.00	37.11	AVG	No Limit

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

Vertical

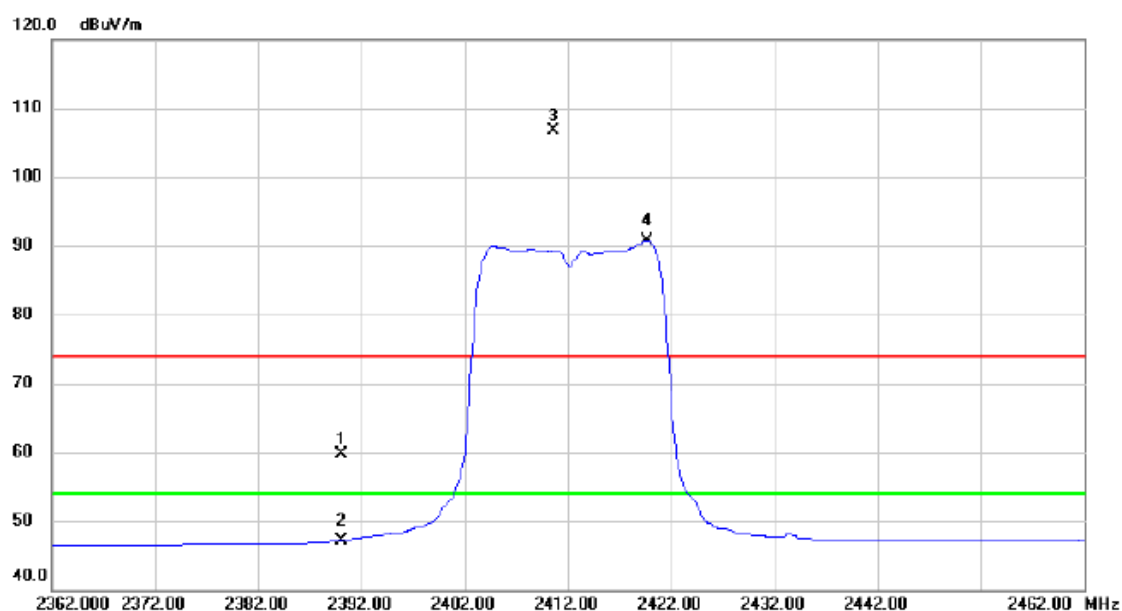
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.1050	35.96	6.66	42.62	74.00	-31.38	Peak	
2 *	4826.0350	26.85	6.67	33.52	54.00	-20.48	AVG	

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

Horizontal

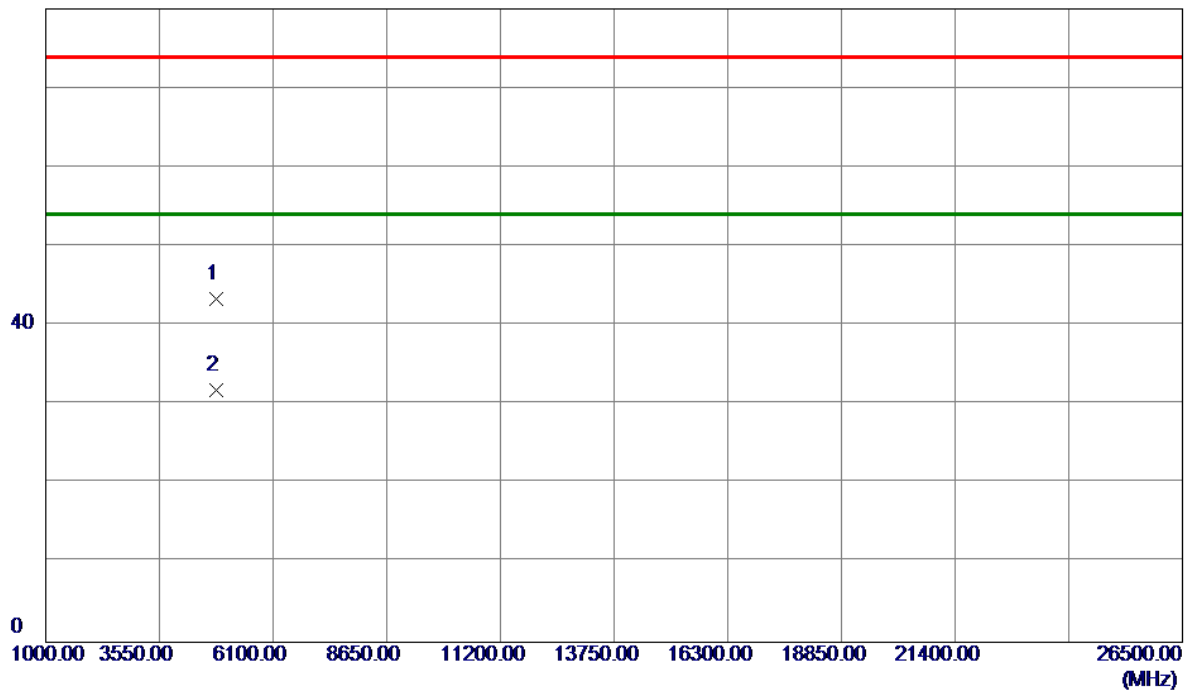


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.74	33.05	59.79	74.00	-14.21	peak	
2		2390.000	14.14	33.05	47.19	54.00	-6.81	AVG	
3	X	2410.600	73.52	33.14	106.66	74.00	32.66	peak	No Limit
4	*	2419.700	57.55	33.17	90.72	54.00	36.72	AVG	No Limit

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

Horizontal

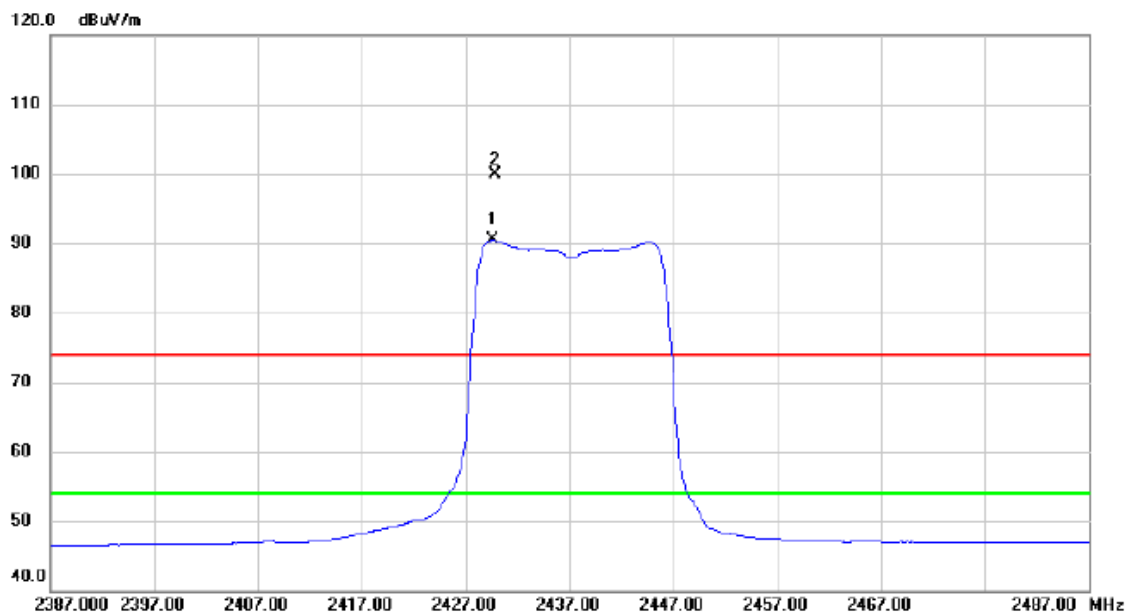
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.2700	36.69	6.66	43.35	74.00	-30.65	Peak	
2 *	4824.6850	25.25	6.66	31.91	54.00	-22.09	AVG	

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

Vertical

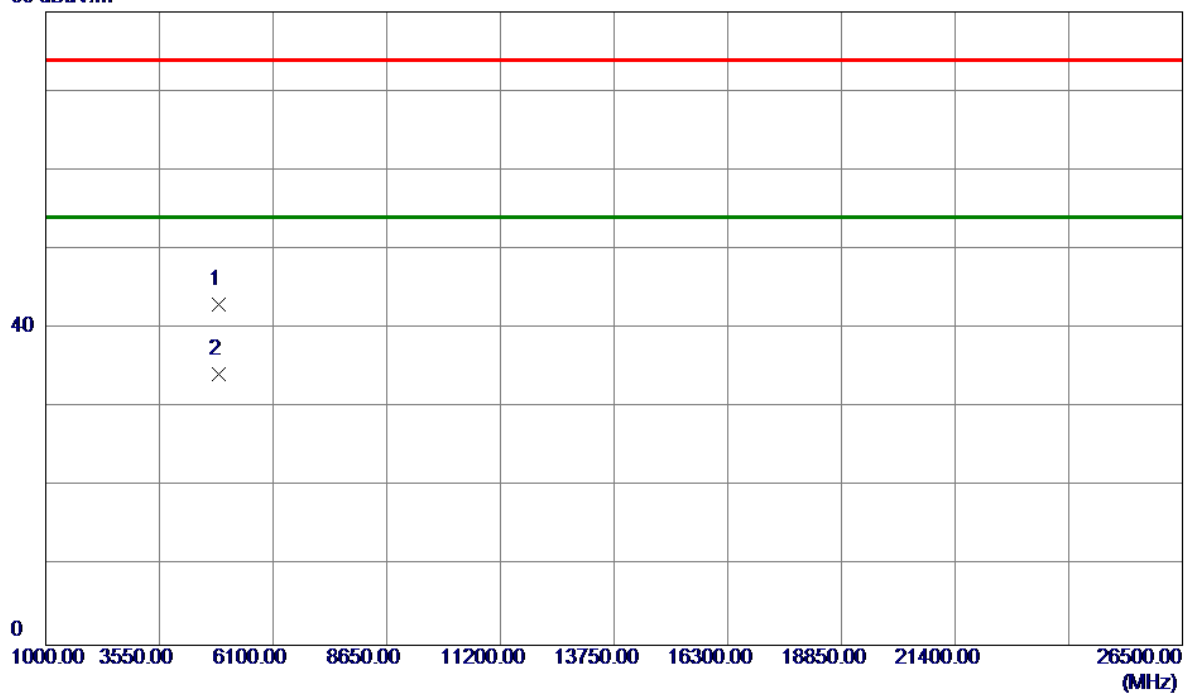


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2429.600	57.21	33.21	90.42	54.00	36.42	AVG	No Limit
2	X	2429.900	66.78	33.21	99.99	74.00	25.99	peak	No Limit

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

Vertical

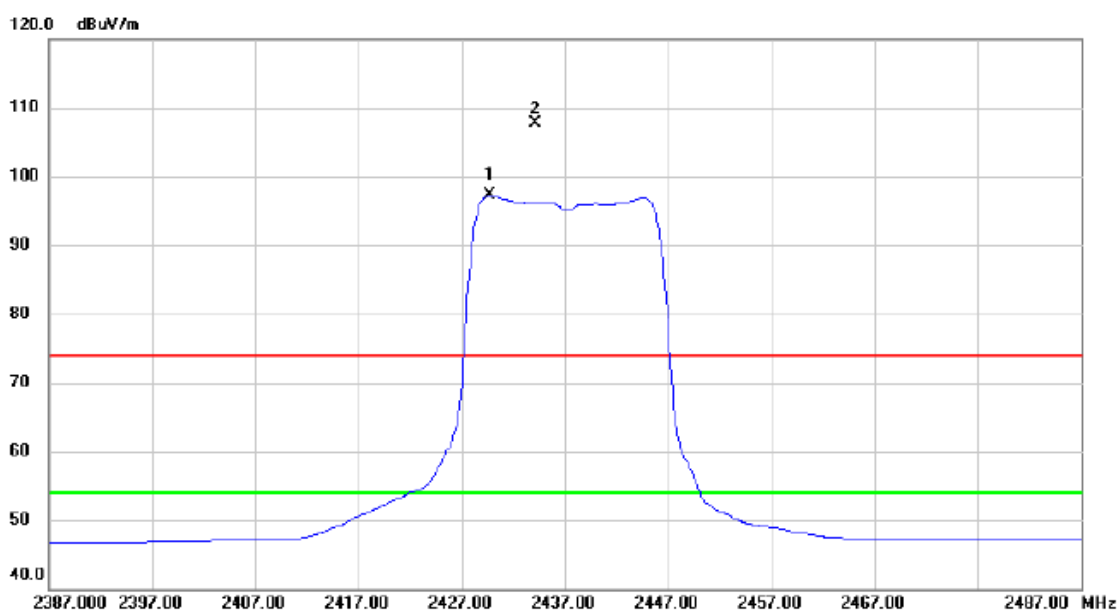
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9300	36.16	6.84	43.00	74.00	-31.00	Peak	
2 *	4874.2150	27.46	6.84	34.30	54.00	-19.70	AVG	

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

Horizontal

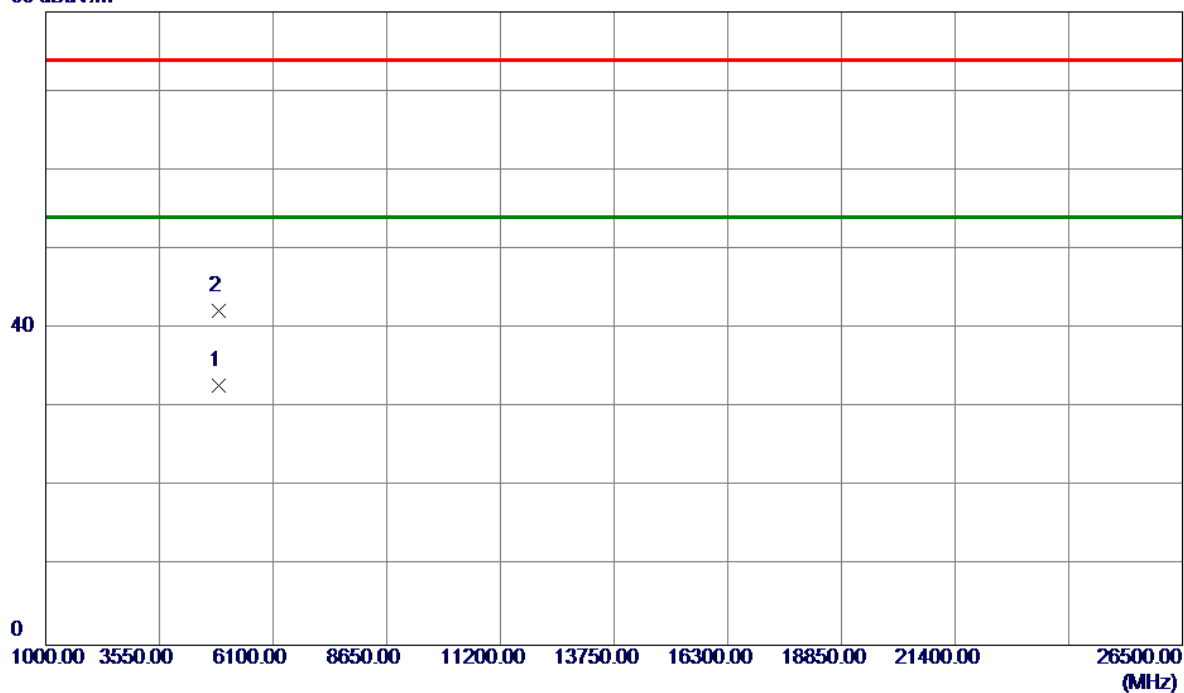


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2429.700	64.02	33.21	97.23	54.00	43.23	AVG	No Limit
2	X	2434.100	74.55	33.22	107.77	74.00	33.77	peak	No Limit

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

Horizontal

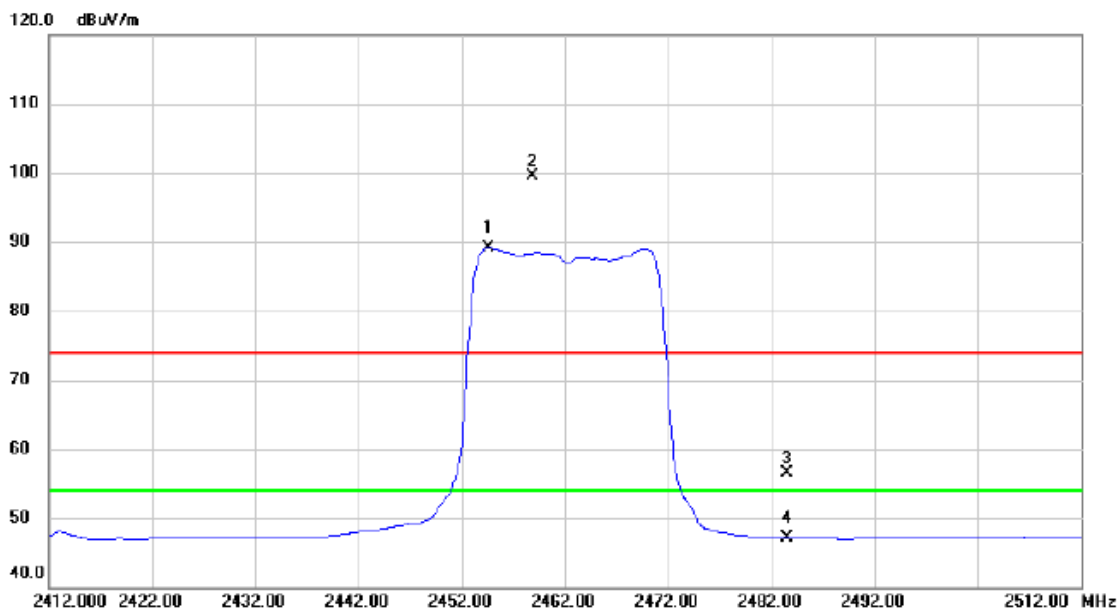
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0600	25.97	6.84	32.81	54.00	-21.19	AVG	
2	4874.9450	35.35	6.84	42.19	74.00	-31.81	Peak	

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

Vertical

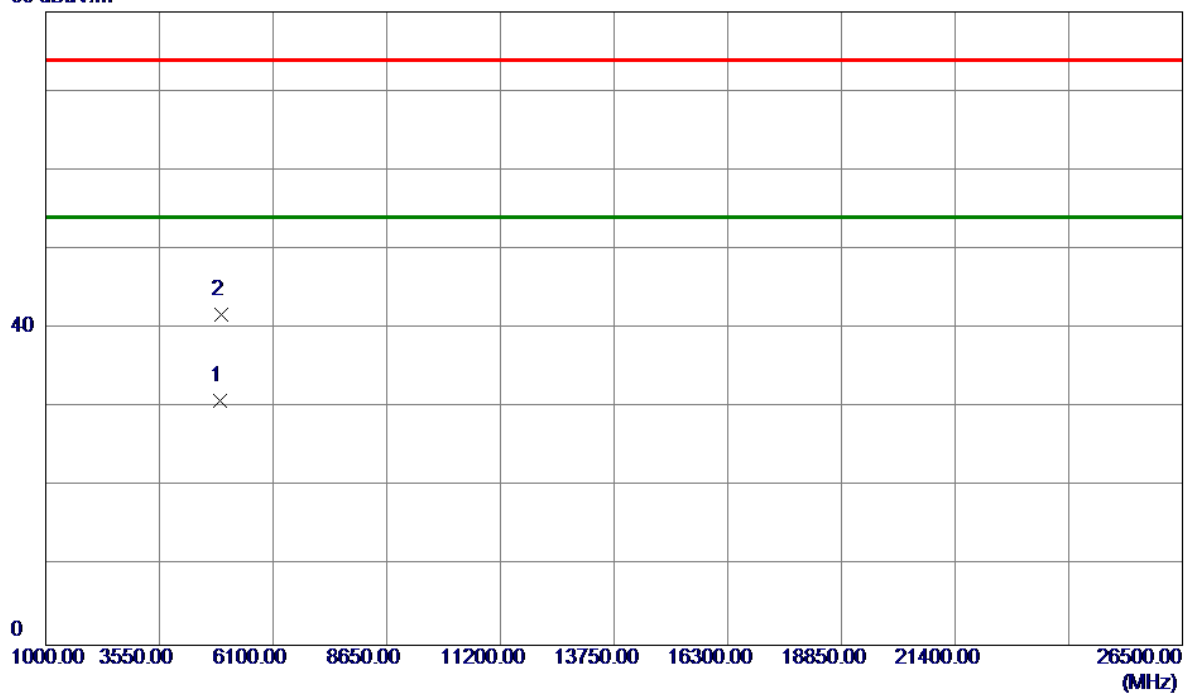


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2454.600	55.80	33.30	89.10	54.00	35.10	AVG	No Limit
2	X	2458.900	66.21	33.31	99.52	74.00	25.52	peak	No Limit
3		2483.500	23.14	33.41	56.55	74.00	-17.45	peak	
4		2483.500	13.74	33.41	47.15	54.00	-6.85	AVG	

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

Vertical

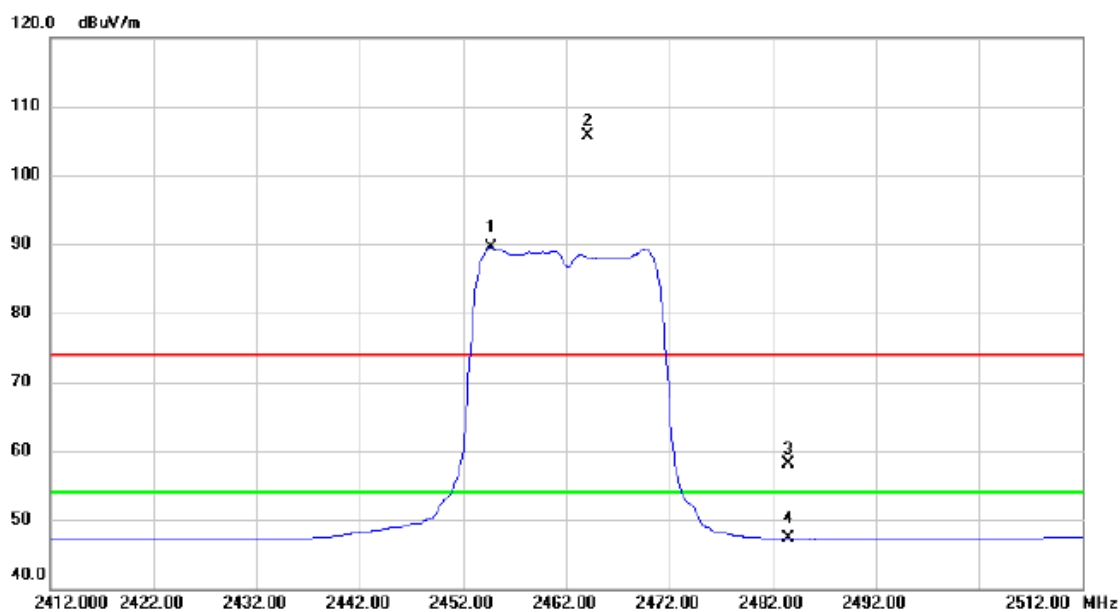
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.3050	23.81	7.01	30.82	54.00	-23.18	AVG	
2	4926.1000	34.76	7.02	41.78	74.00	-32.22	Peak	

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

Horizontal

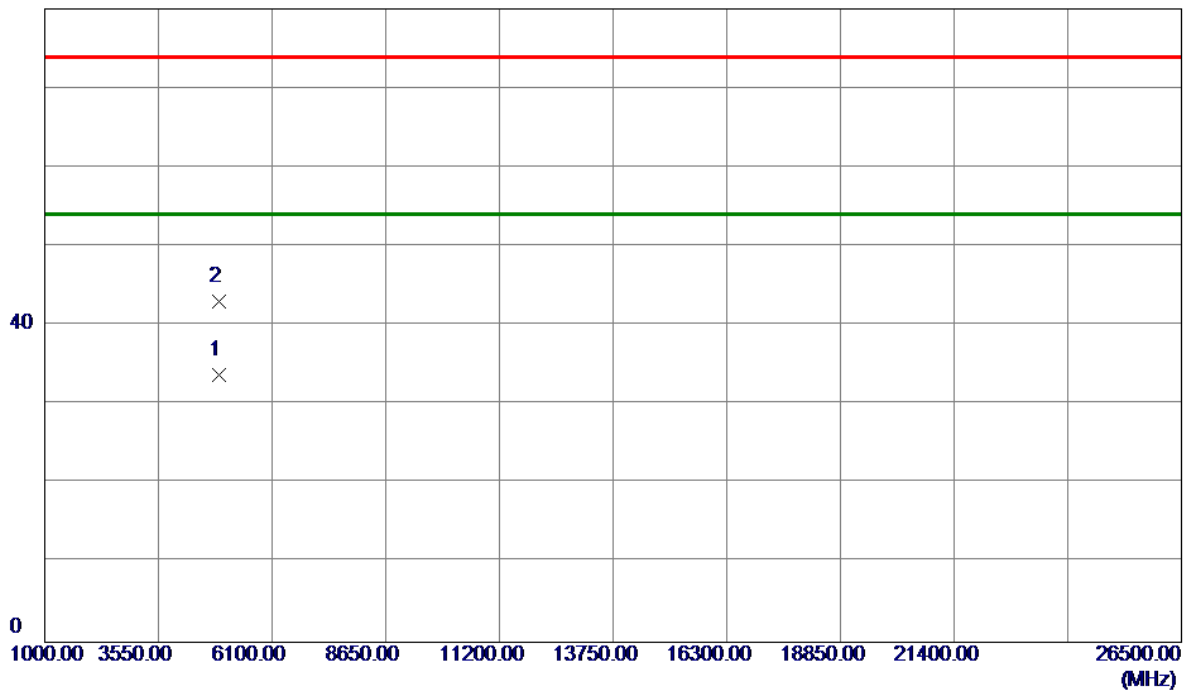


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2454.700	56.17	33.30	89.47	54.00	35.47	AVG	No Limit
2	X	2464.000	72.42	33.34	105.76	74.00	31.76	peak	No Limit
3		2483.500	24.77	33.41	58.18	74.00	-15.82	peak	
4		2483.500	13.88	33.41	47.29	54.00	-6.71	AVG	

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

Horizontal

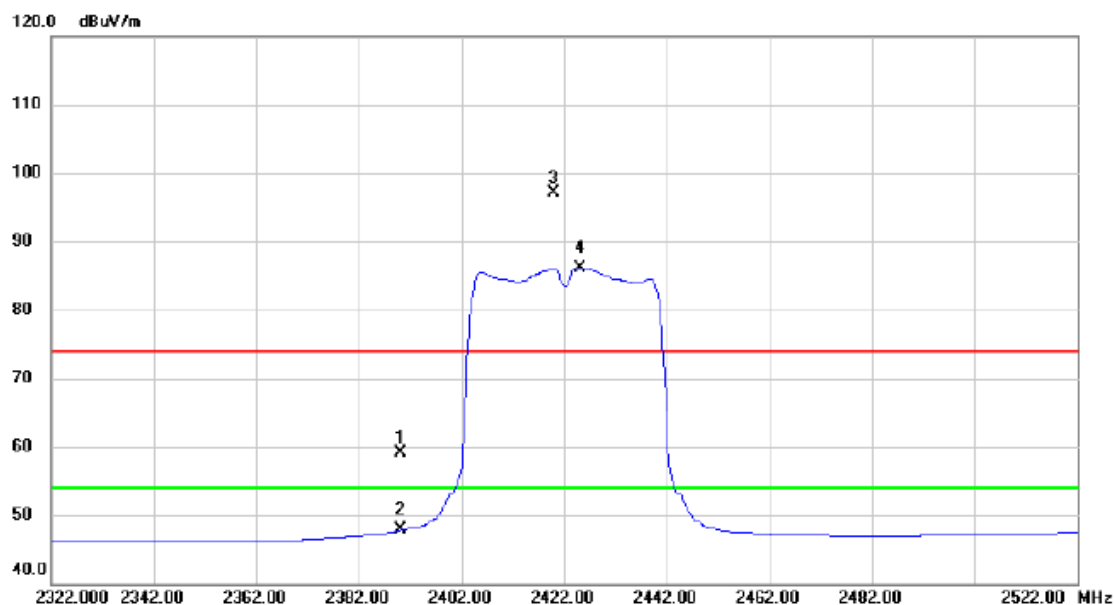
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.6950	26.76	7.01	33.77	54.00	-20.23	AVG	
2	4922.8700	35.96	7.01	42.97	74.00	-31.03	Peak	

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

Vertical

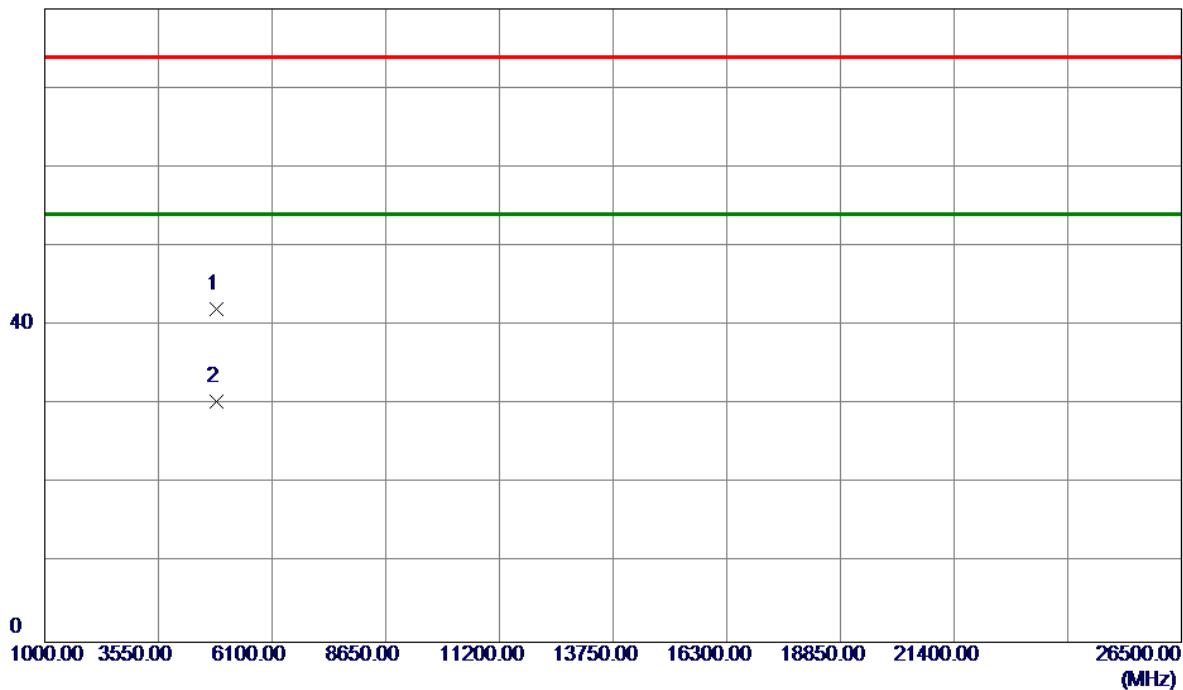


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.00	33.05	59.05	74.00	-14.95	peak	
2		2390.000	14.77	33.05	47.82	54.00	-6.18	AVG	
3	X	2420.000	63.99	33.17	97.16	74.00	23.16	peak	No Limit
4	*	2425.200	52.98	33.19	86.17	54.00	32.17	AVG	No Limit

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

Vertical

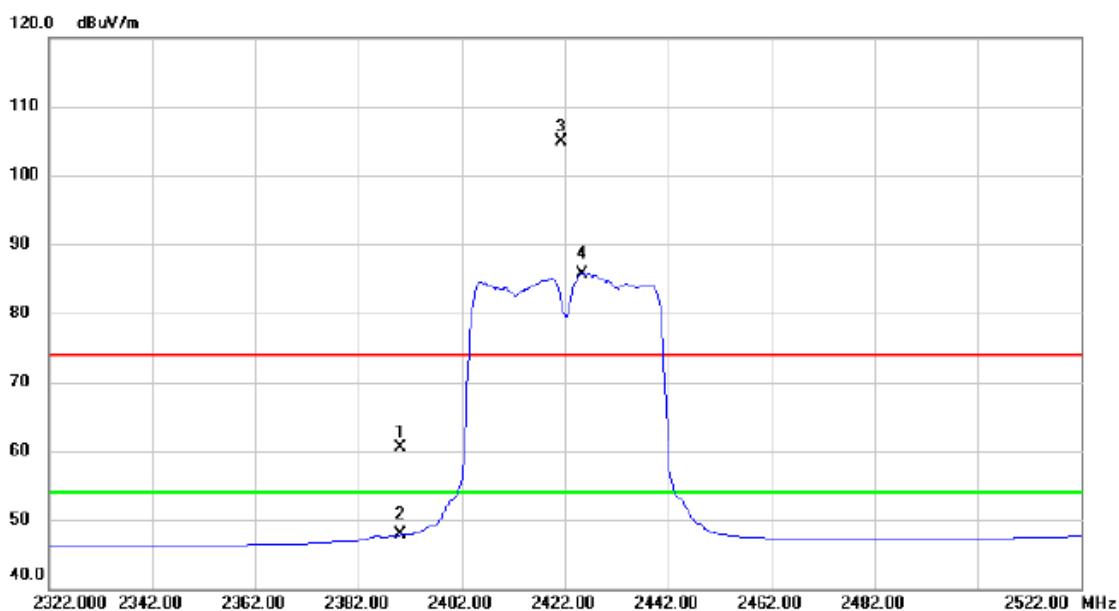
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4842.6100	35.39	6.72	42.11	74.00	-31.89	Peak	
2 *	4843.1650	23.64	6.73	30.37	54.00	-23.63	AVG	

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

Horizontal

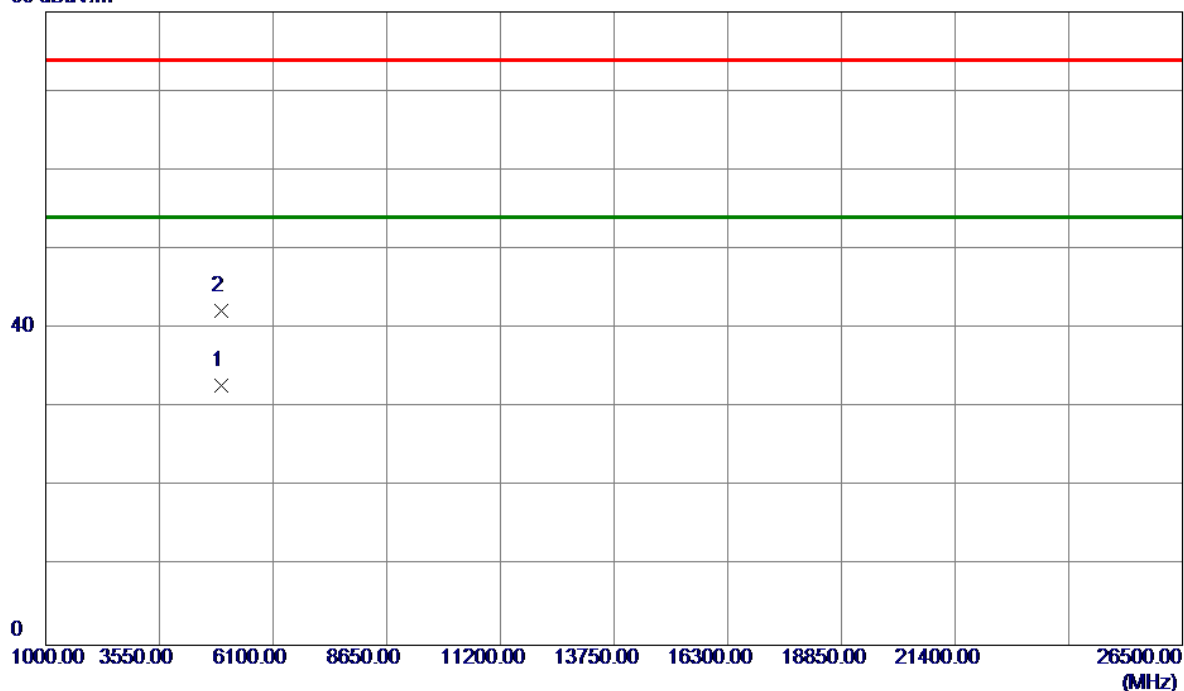


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.48	33.05	60.53	74.00	-13.47	peak	
2		2390.000	14.76	33.05	47.81	54.00	-6.19	AVG	
3	X	2421.400	71.71	33.18	104.89	74.00	30.89	peak	No Limit
4	*	2425.400	52.54	33.19	85.73	54.00	31.73	AVG	No Limit

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

Horizontal

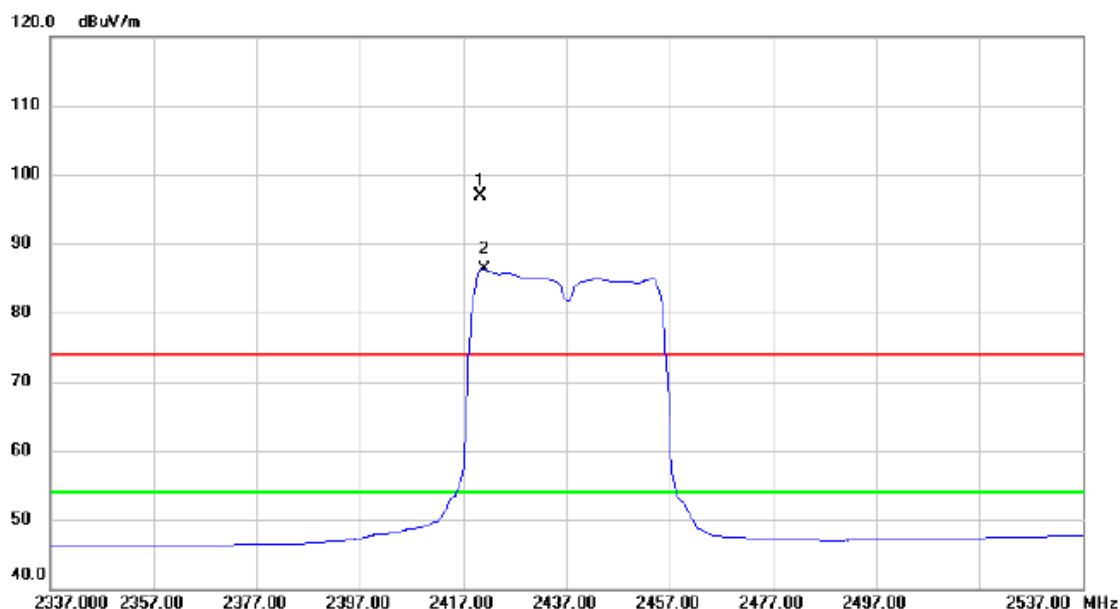
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4941.9650	25.69	7.08	32.77	54.00	-21.23	AVG	
2	4945.9950	35.09	7.10	42.19	74.00	-31.81	Peak	

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

Vertical

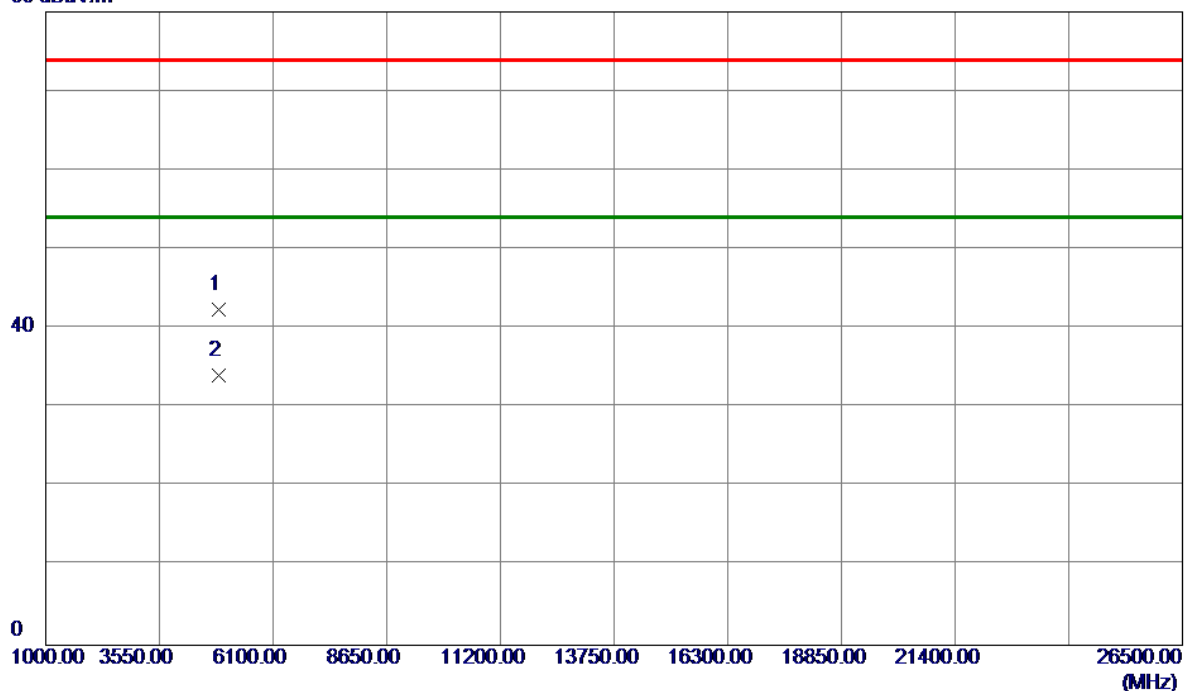


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2420.400	63.79	33.17	96.96	74.00	22.96	peak	No Limit
2	*	2421.200	53.11	33.18	86.29	54.00	32.29	AVG	No Limit

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

Vertical

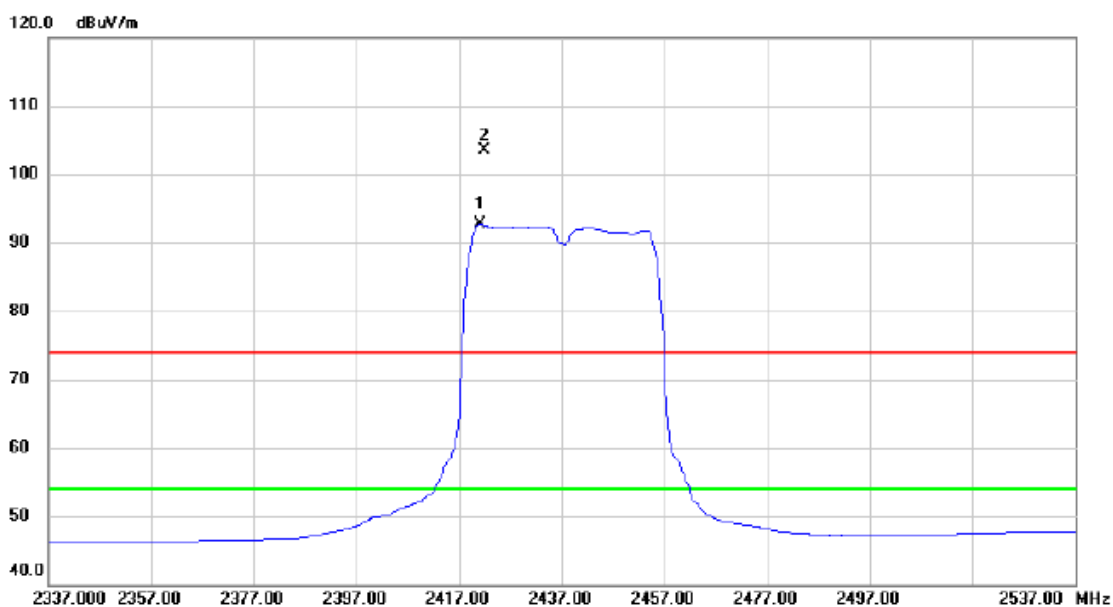
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.2100	35.49	6.84	42.33	74.00	-31.67	Peak	
2 *	4874.2700	27.29	6.84	34.13	54.00	-19.87	AVG	

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

Horizontal

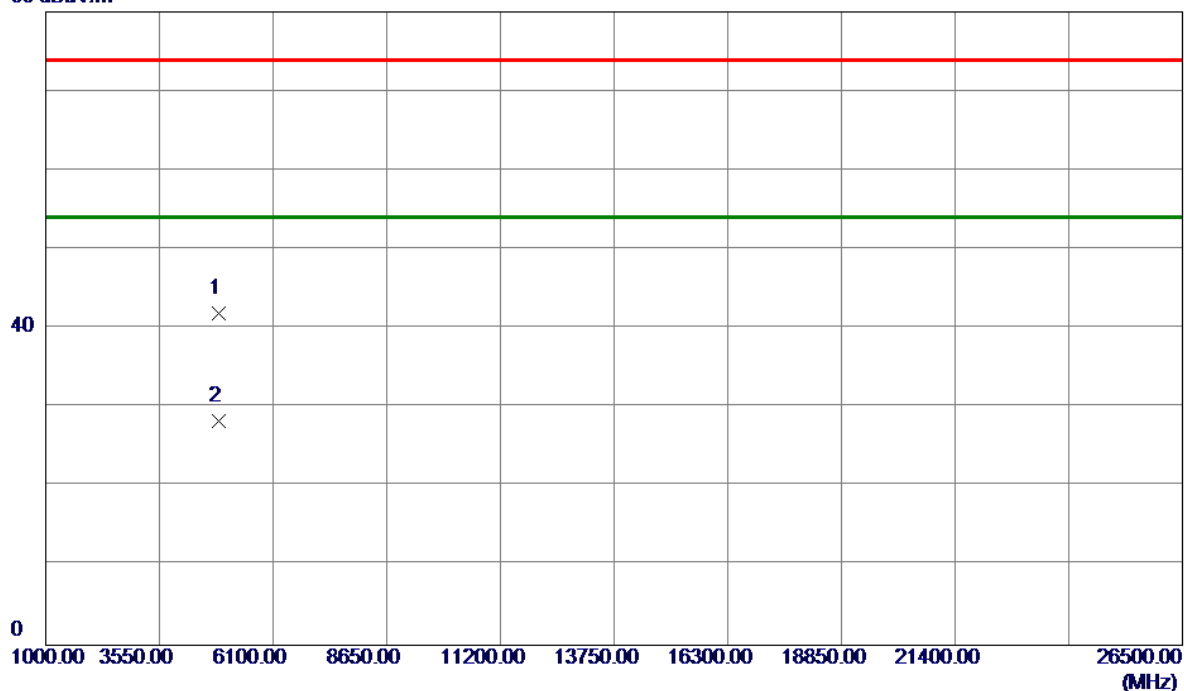


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2421.200	59.49	33.18	92.67	54.00	38.67	AVG	No Limit
2	X	2421.800	70.35	33.18	103.53	74.00	29.53	peak	No Limit

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

Horizontal

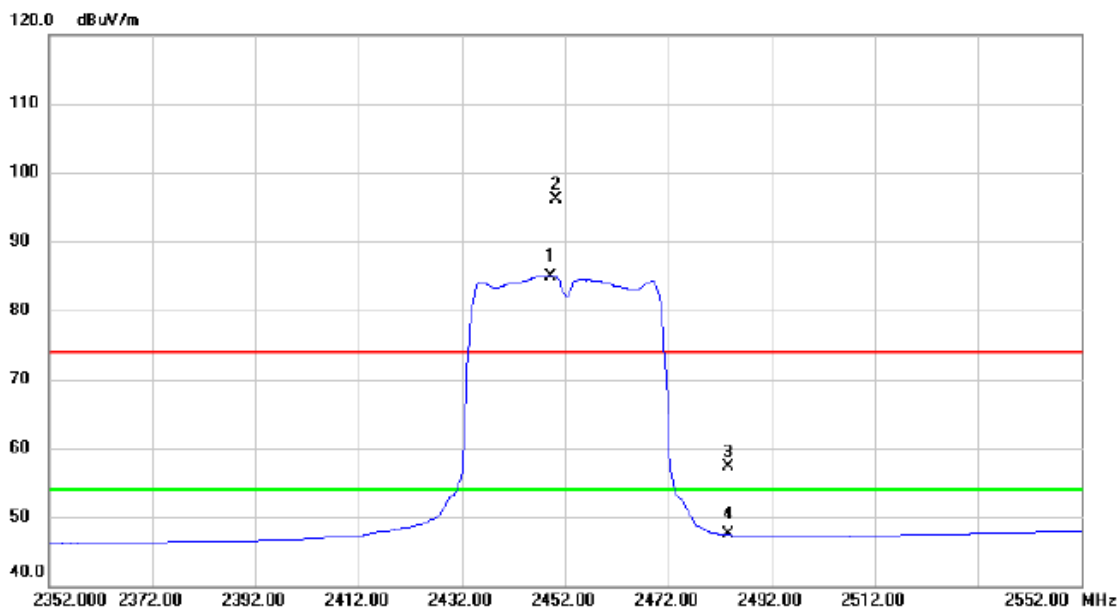
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4875.9650	35.03	6.84	41.87	74.00	-32.13	Peak	
2 *	4876.2050	21.54	6.85	28.39	54.00	-25.61	AVG	

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

Vertical

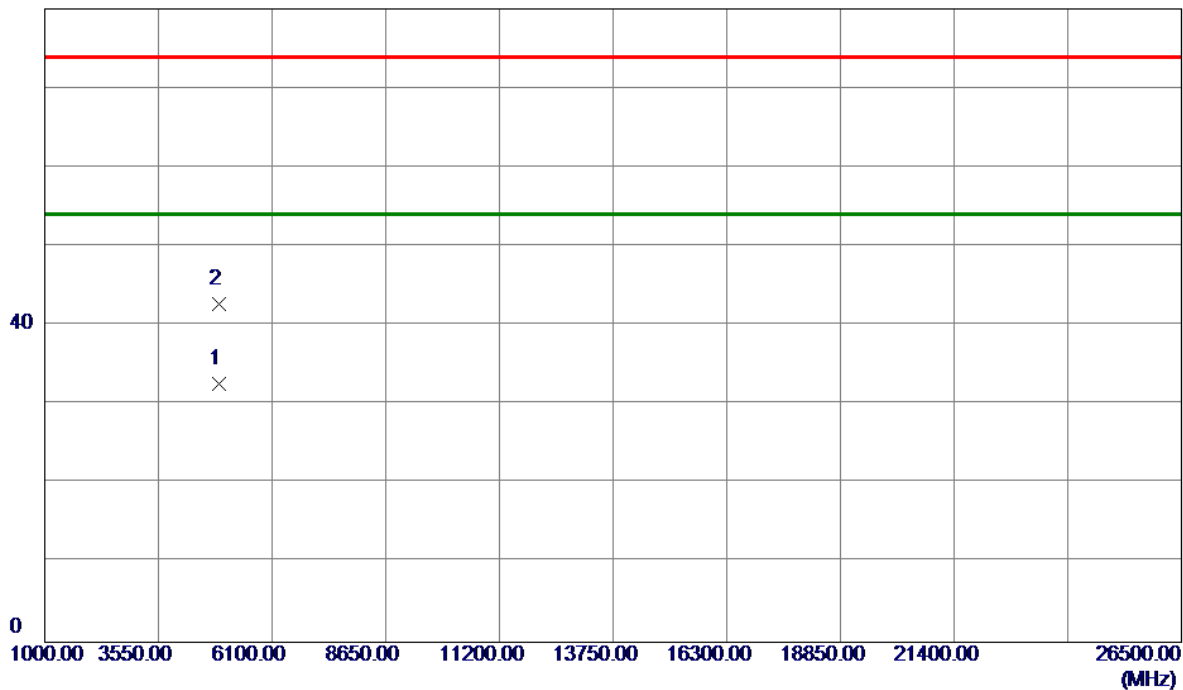


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2449.200	51.70	33.28	84.98	54.00	30.98	AVG	No Limit
2	X	2450.200	62.76	33.28	96.04	74.00	22.04	peak	No Limit
3		2483.500	23.87	33.41	57.28	74.00	-16.72	peak	
4		2483.500	14.02	33.41	47.43	54.00	-6.57	AVG	

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

Vertical

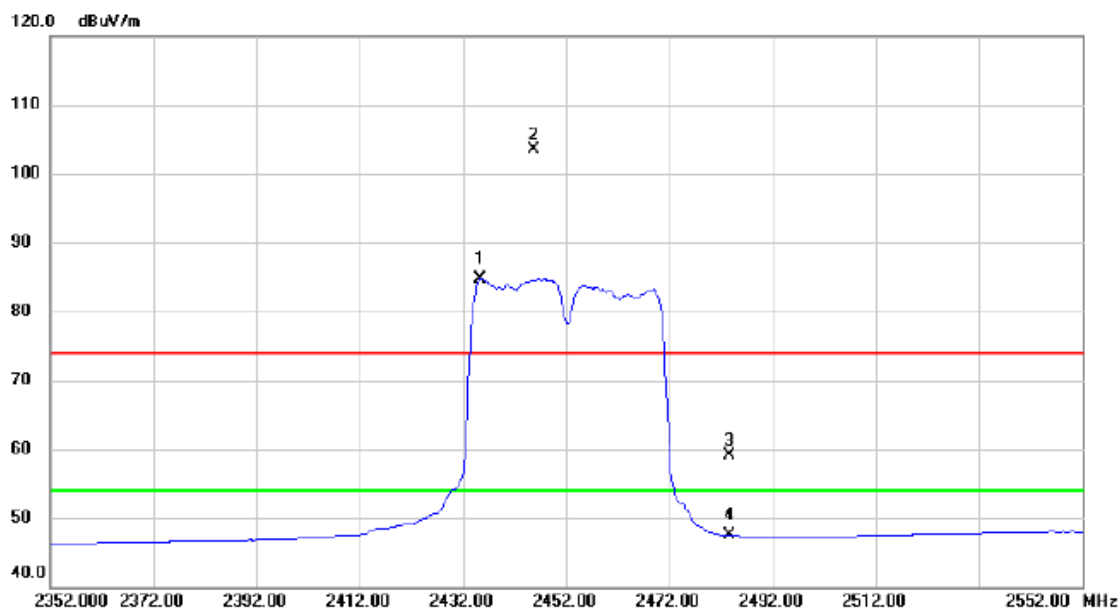
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4903.9500	25.70	6.94	32.64	54.00	-21.36	AVG	
2	4904.0050	35.76	6.95	42.71	74.00	-31.29	Peak	

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

Horizontal

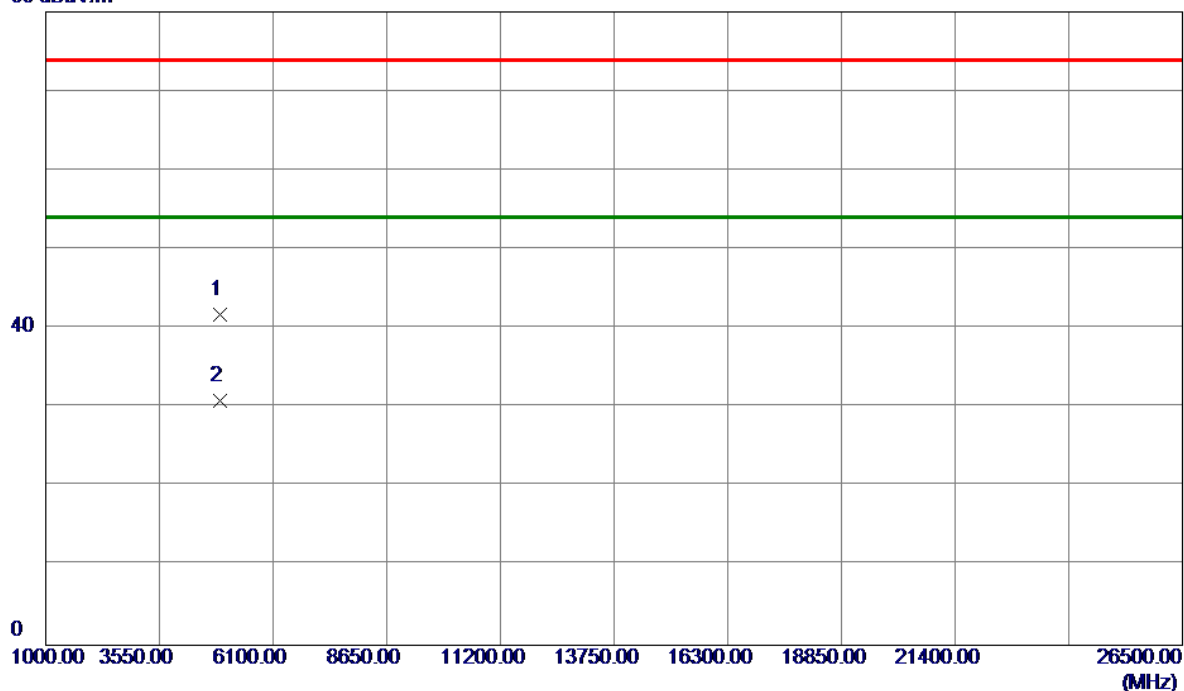


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2435.400	51.49	33.23	84.72	54.00	30.72	AVG	No Limit
2	X	2445.800	70.31	33.27	103.58	74.00	29.58	peak	No Limit
3		2483.500	25.69	33.41	59.10	74.00	-14.90	peak	
4		2483.500	14.06	33.41	47.47	54.00	-6.53	AVG	

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

Horizontal

80 dBuV/m



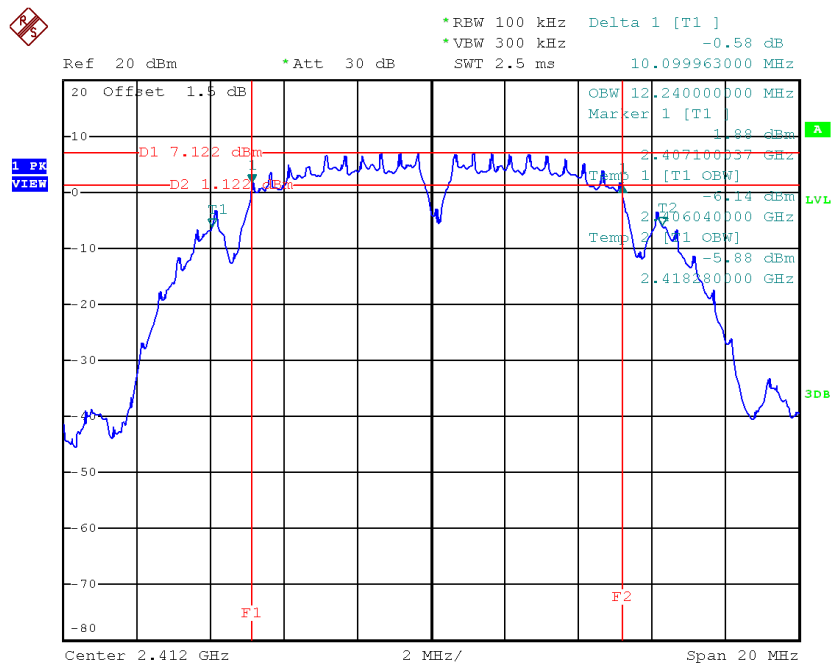
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.3650	34.75	6.94	41.69	74.00	-32.31	Peak	
2 *	4903.4750	23.91	6.94	30.85	54.00	-23.15	AVG	

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

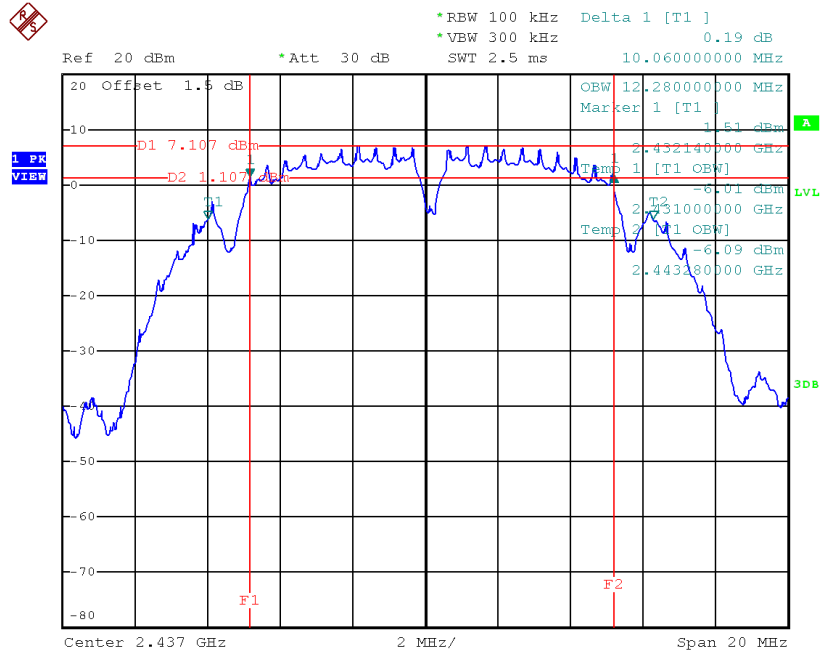
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.10	12.24	500	Complies
2437	10.06	12.28	500	Complies
2462	10.10	12.32	500	Complies

TX CH01



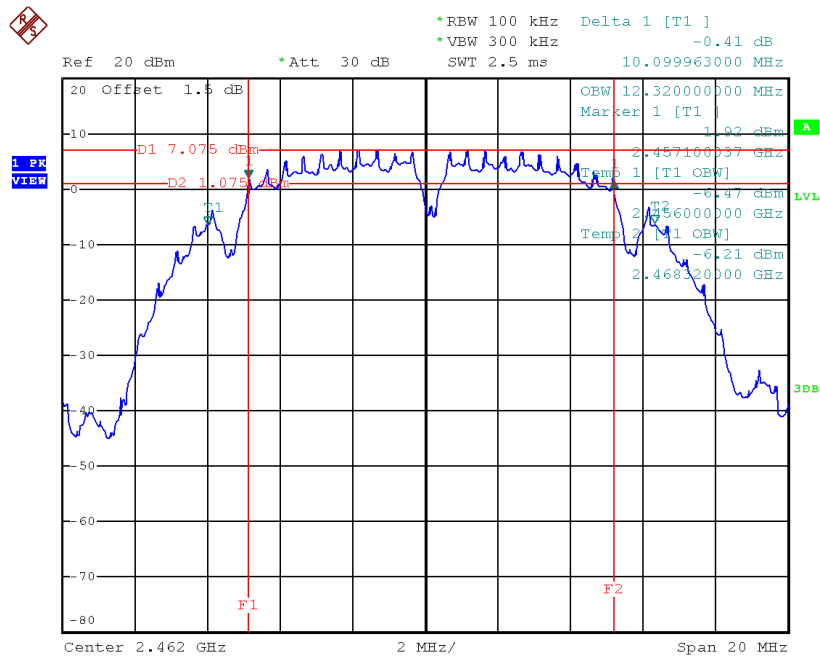
Date: 6.DEC.2017 09:13:39

TX CH06



Date: 6.DEC.2017 09:15:26

TX CH11

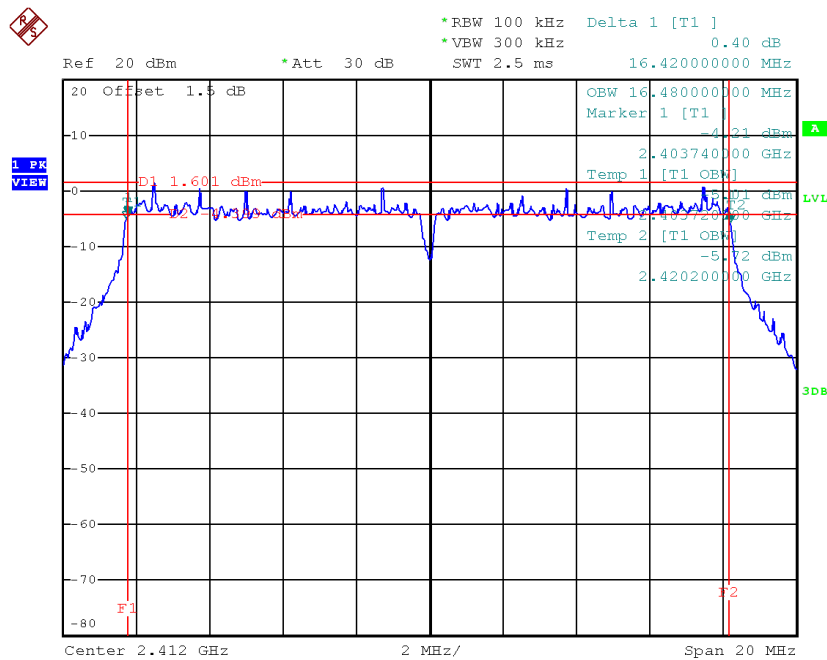


Date: 6.DEC.2017 09:16:57

Test Mode: TX G Mode_CH01/06/11

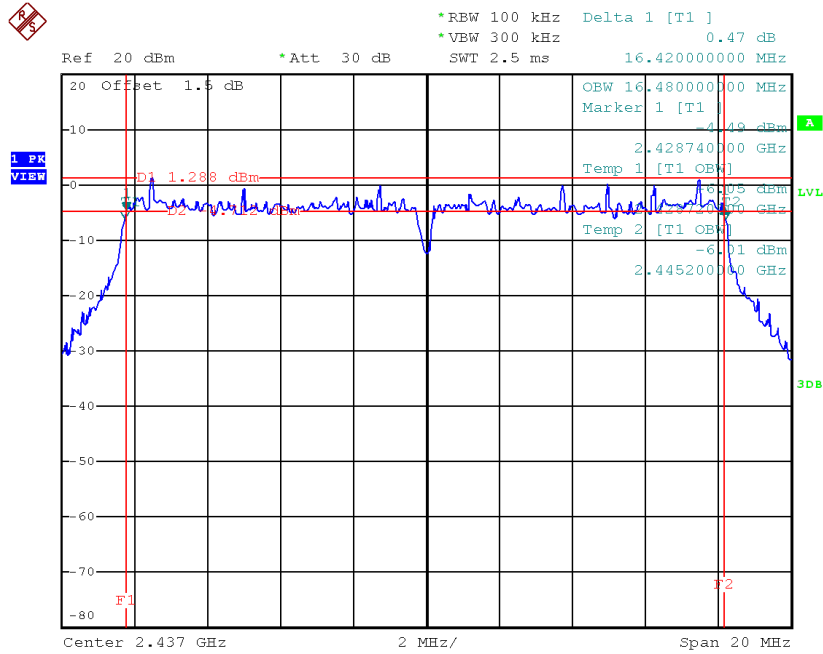
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.42	16.48	500	Complies
2437	16.42	16.48	500	Complies
2462	16.44	16.48	500	Complies

TX CH01



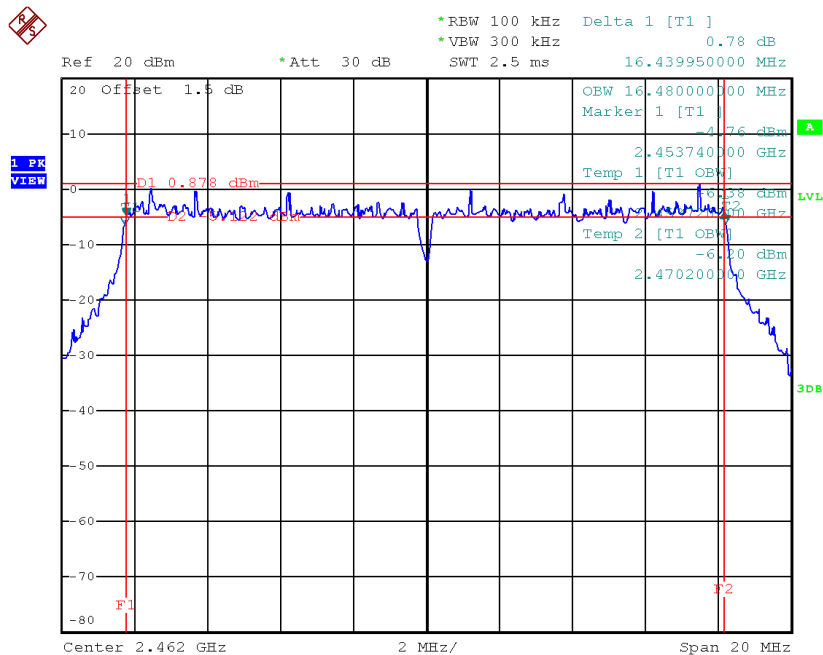
Date: 5.JAN.2018 09:16:12

TX CH06



Date: 5.JAN.2018 09:21:38

TX CH11

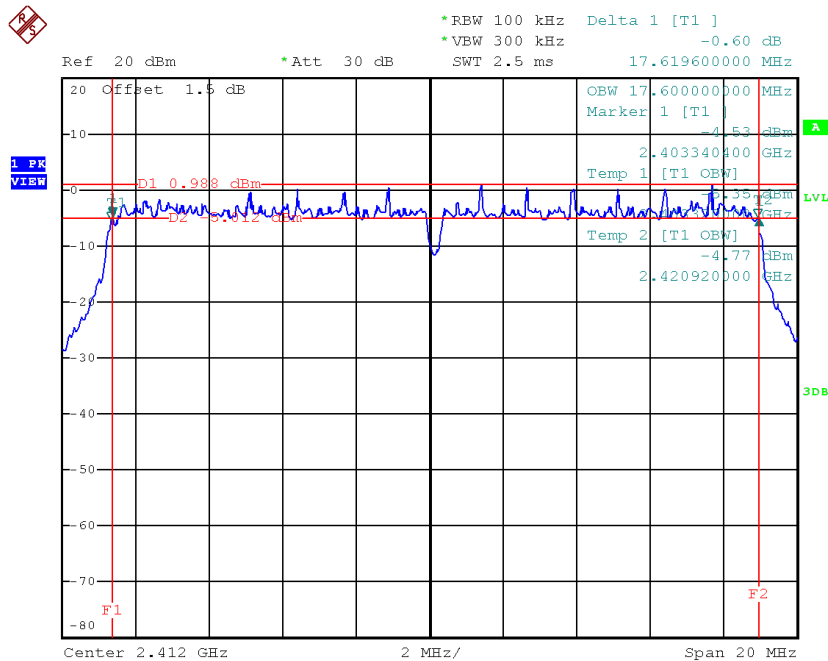


Date: 5.JAN.2018 09:23:24

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

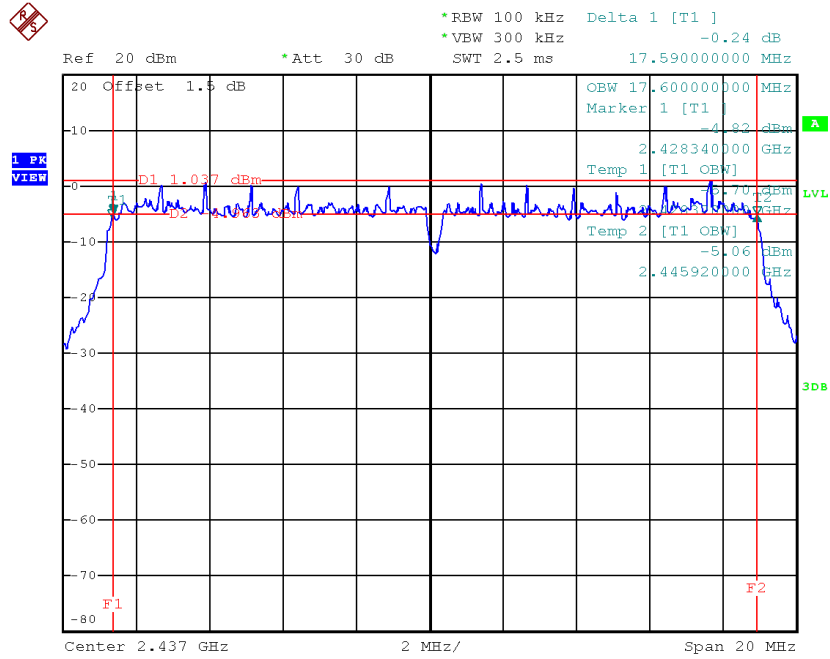
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.60	500	Complies
2437	17.59	17.60	500	Complies
2462	17.36	17.60	500	Complies

TX CH01



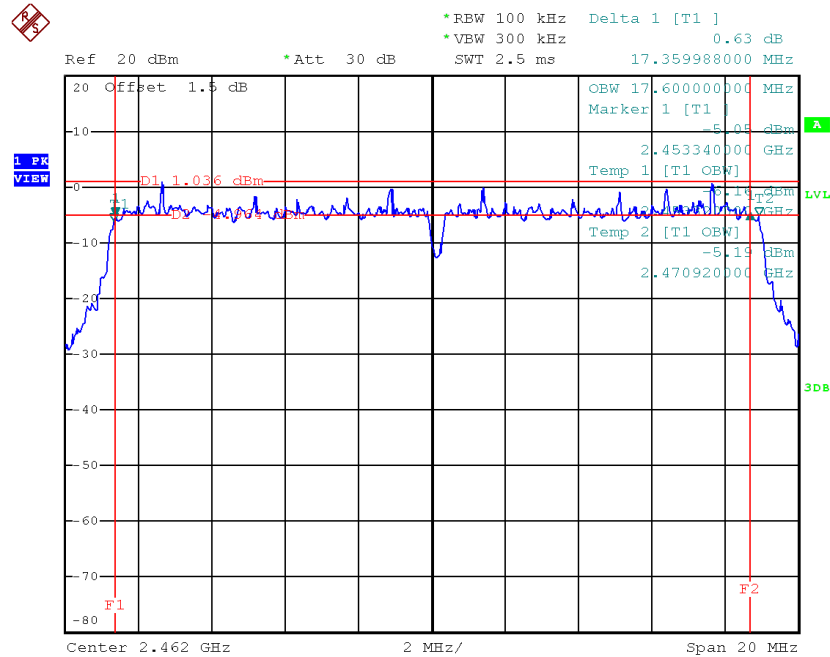
Date: 5.JAN.2018 09:26:00

TX CH06



Date: 5.JAN.2018 09:27:12

TX CH11

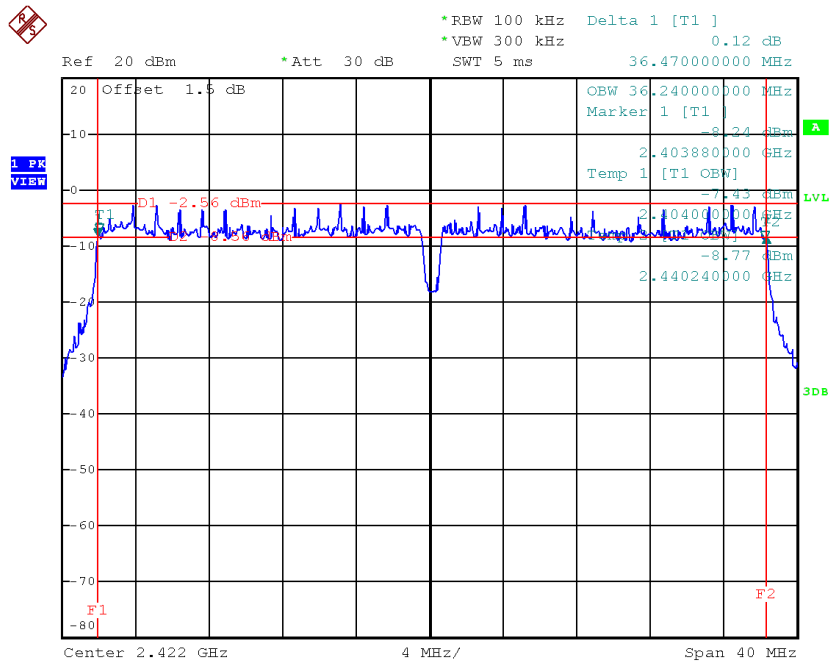


Date: 5.JAN.2018 09:28:58

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

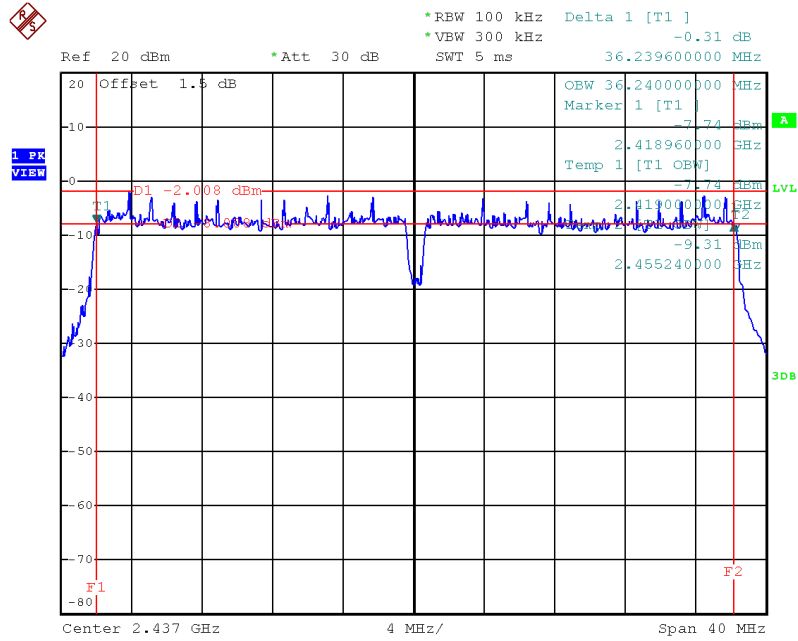
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.47	36.24	500	Complies
2437	36.24	36.24	500	Complies
2452	36.44	36.24	500	Complies

TX CH03



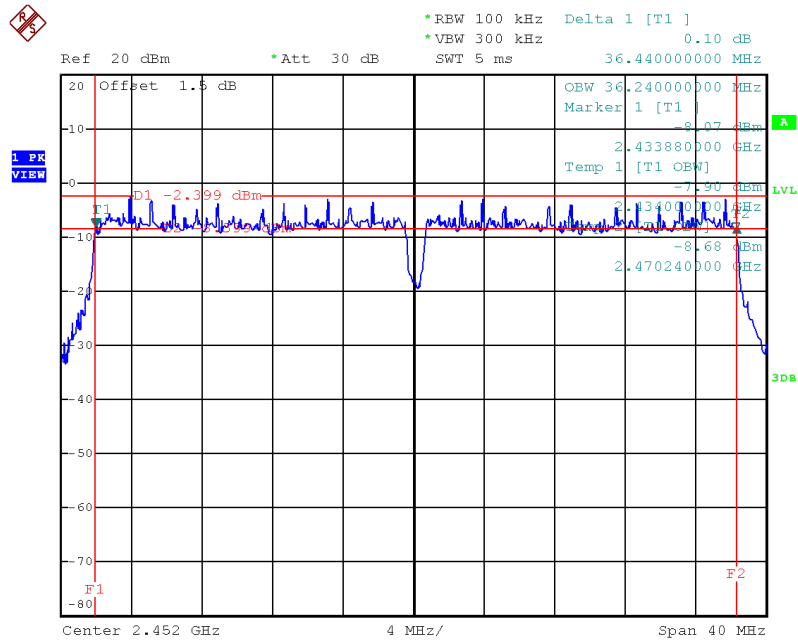
Date: 5.JAN.2018 09:31:46

TX CH06



Date: 5.JAN.2018 09:33:02

TX CH09



Date: 5.JAN.2018 09:37:13

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	20.25	0.11	30.00	1.00	Complies
2437	20.50	0.11	30.00	1.00	Complies
2462	20.29	0.11	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.26	0.17	30.00	1.00	Complies
2437	22.15	0.16	30.00	1.00	Complies
2462	22.09	0.16	30.00	1.00	Complies

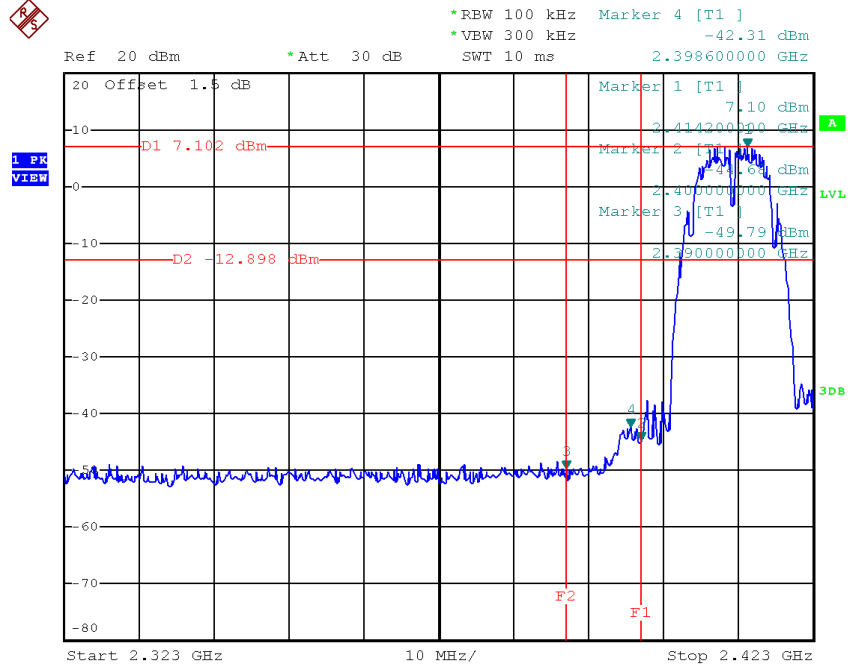
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.12	0.16	30.00	1.00	Complies
2437	21.89	0.15	30.00	1.00	Complies
2462	21.83	0.15	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.75	0.12	30.00	1.00	Complies
2437	20.71	0.12	30.00	1.00	Complies
2452	20.61	0.12	30.00	1.00	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

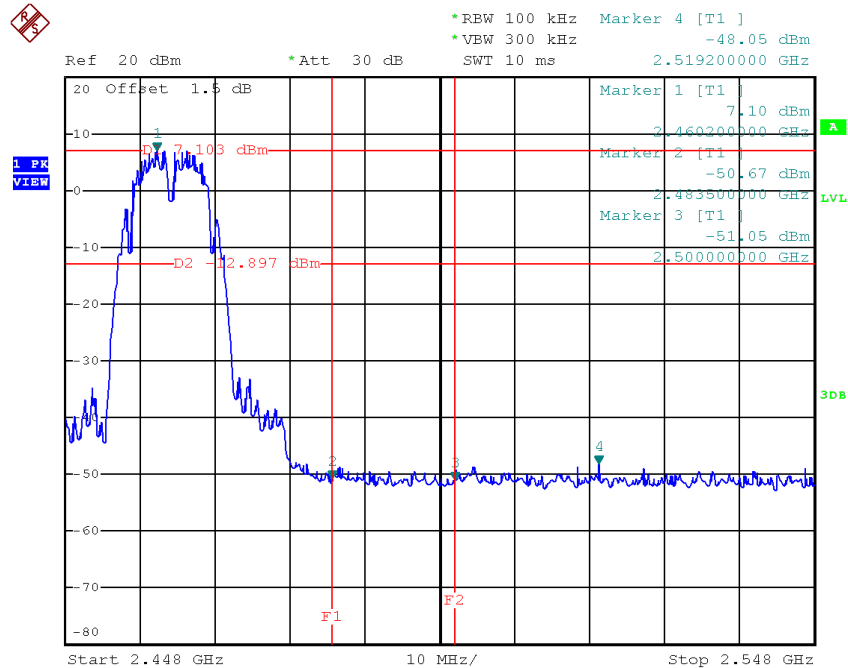
Test Mode : TX B Mode

TX B mode CH01



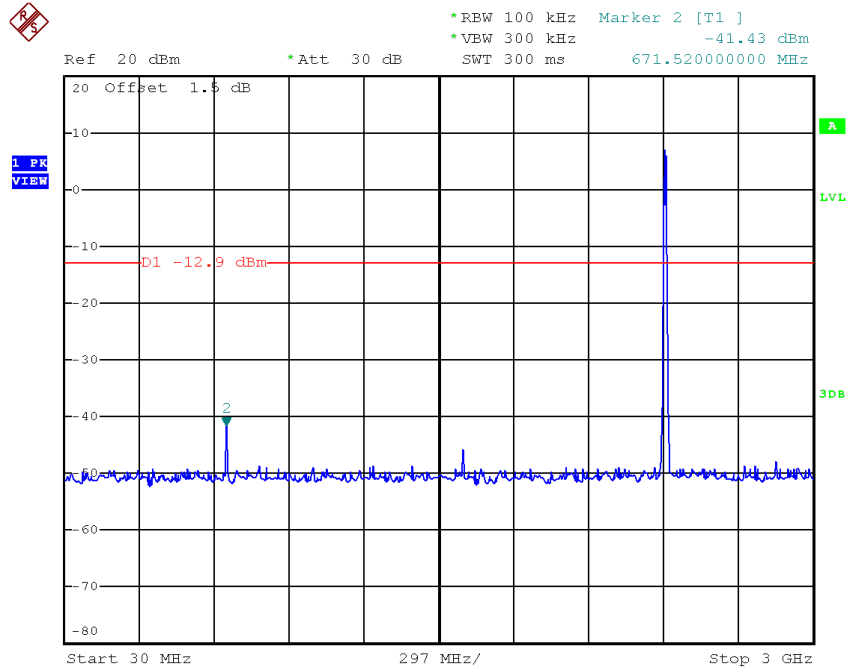
Date: 6.DEC.2017 09:13:47

TX B mode CH11

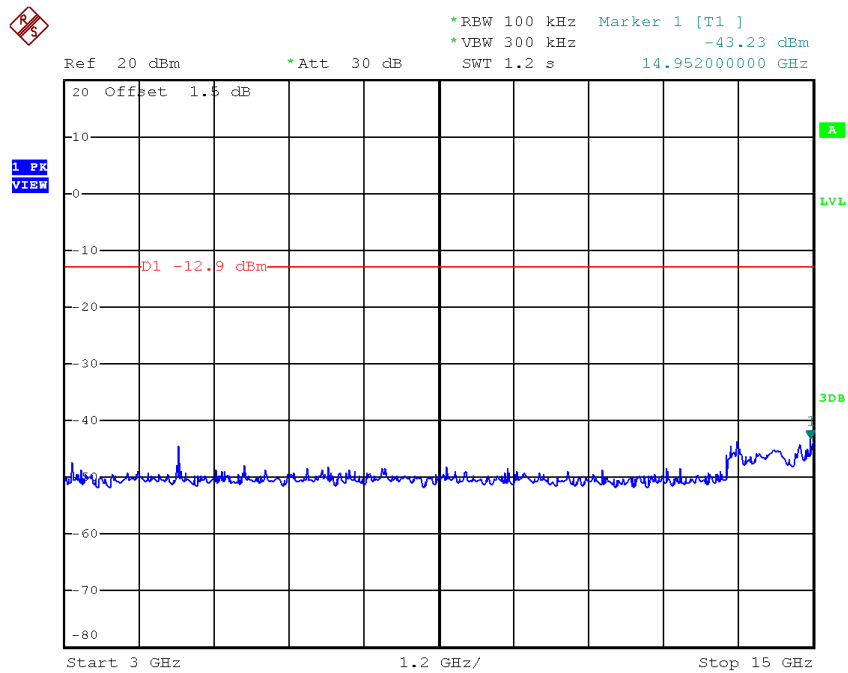


Date: 6.DEC.2017 09:17:04

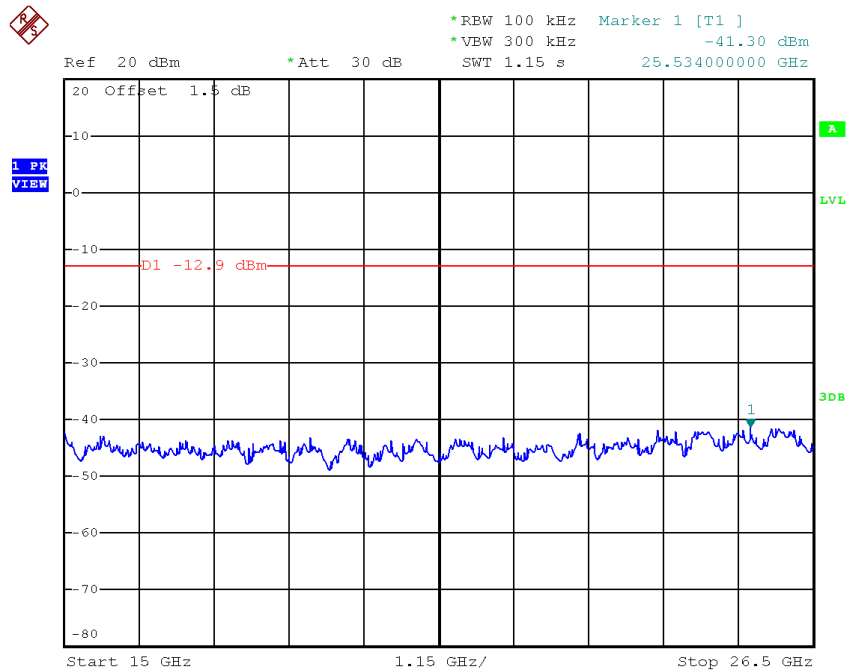
TX B mode CH01 (10 Harmonic of the frequency)



Date: 6.DEC.2017 09:14:00

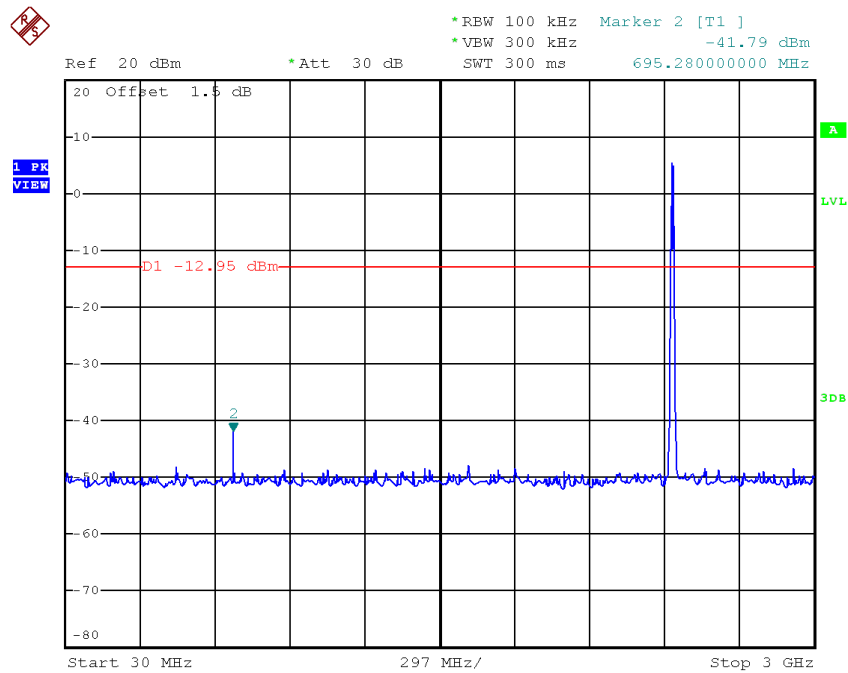


Date: 6.DEC.2017 09:14:07

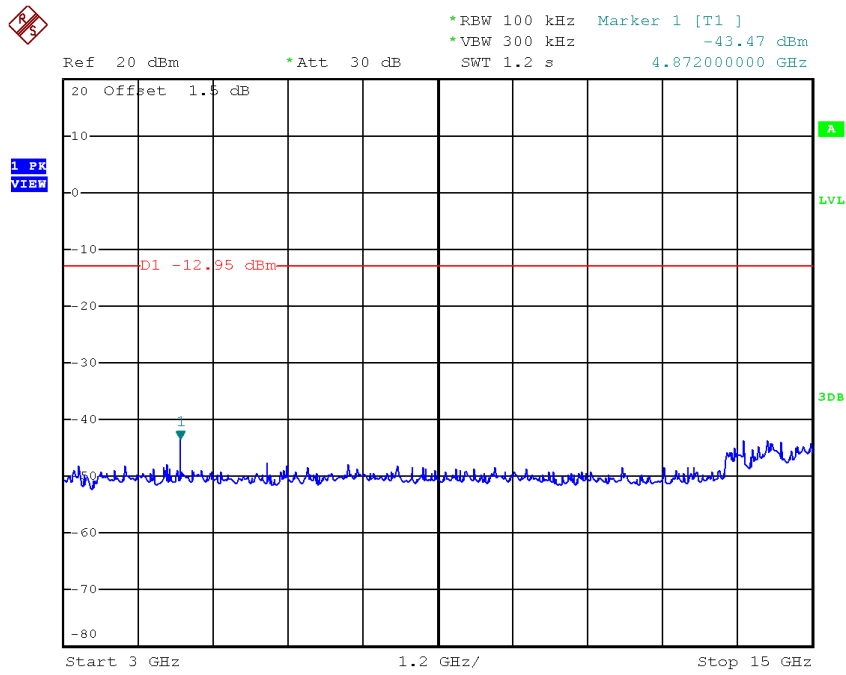


Date: 6.DEC.2017 09:14:14

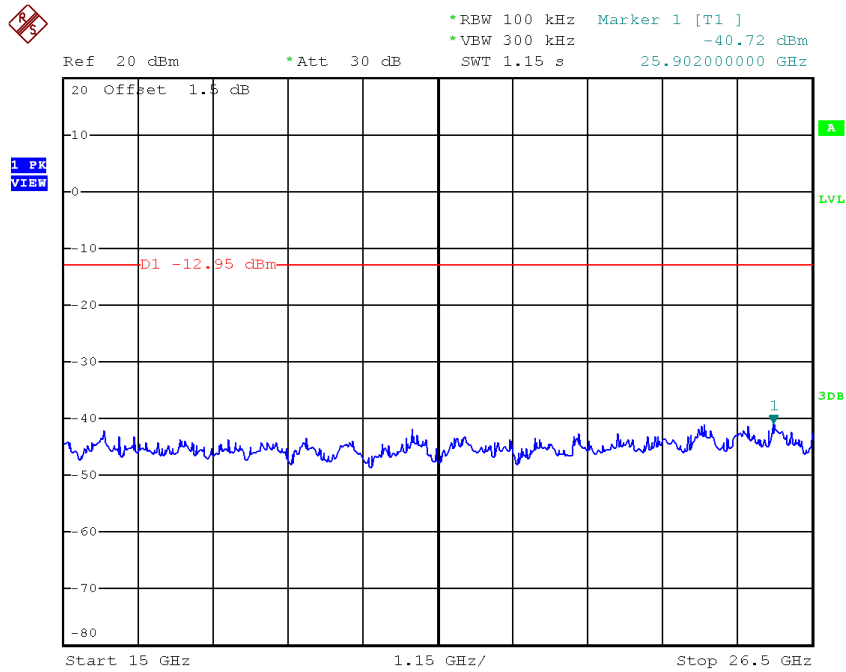
TX B mode CH06 (10 Harmonic of the frequency)



Date: 6.DEC.2017 09:15:46

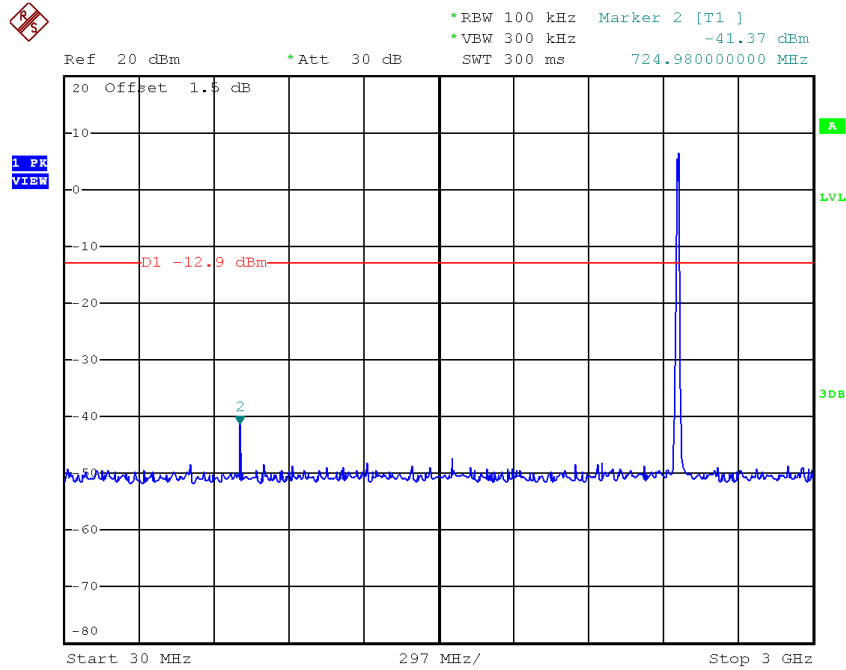


Date: 6.DEC.2017 09:15:53

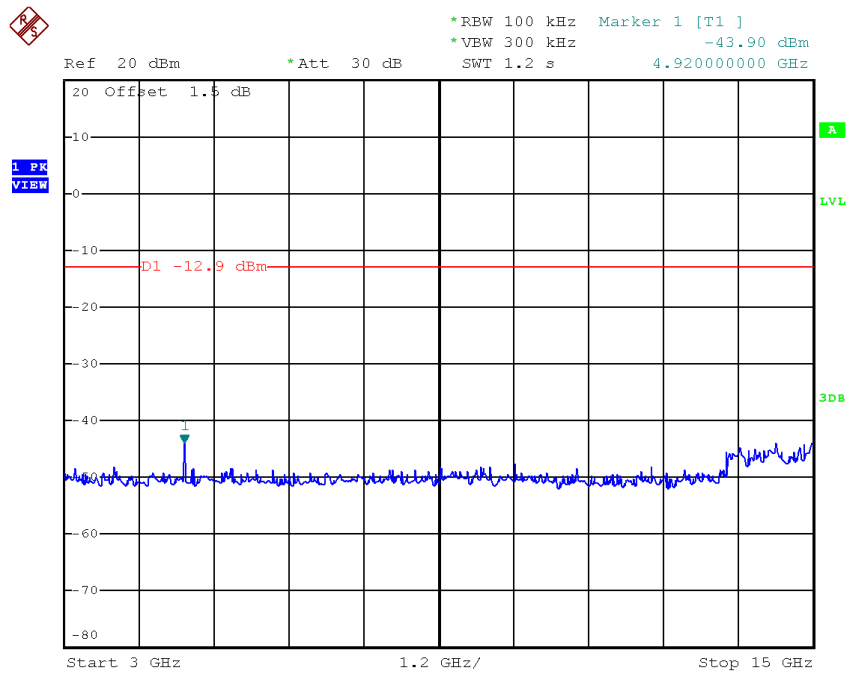


Date: 6.DEC.2017 09:16:00

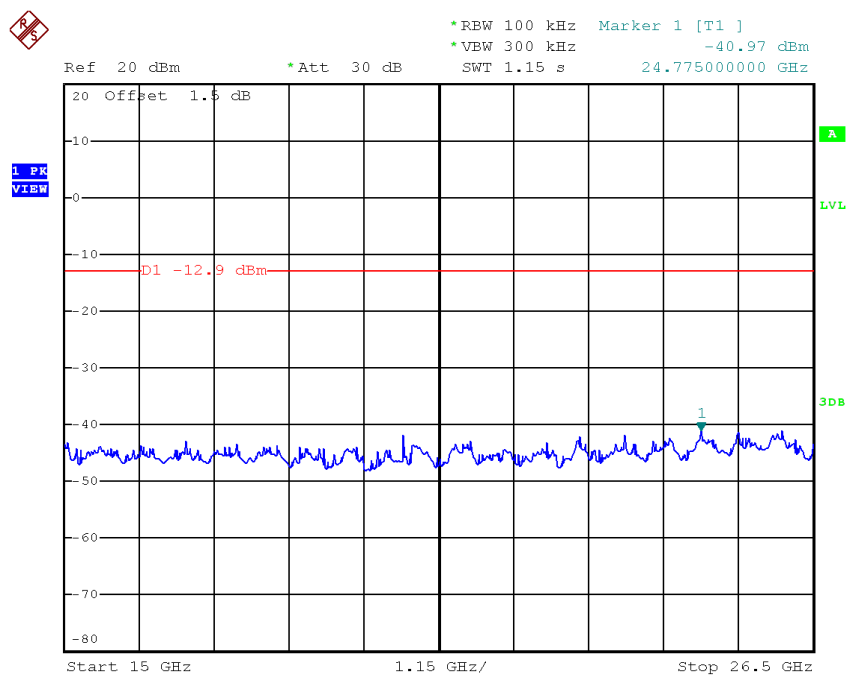
TX B mode CH11 (10 Harmonic of the frequency)



Date: 6.DEC.2017 09:17:17



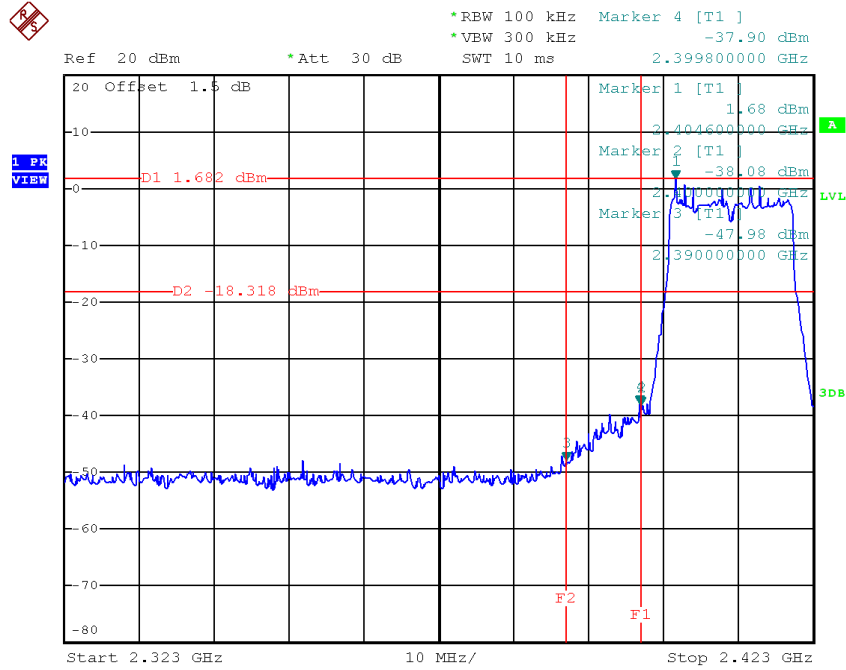
Date: 6.DEC.2017 09:17:24



Date: 6.DEC.2017 09:17:31

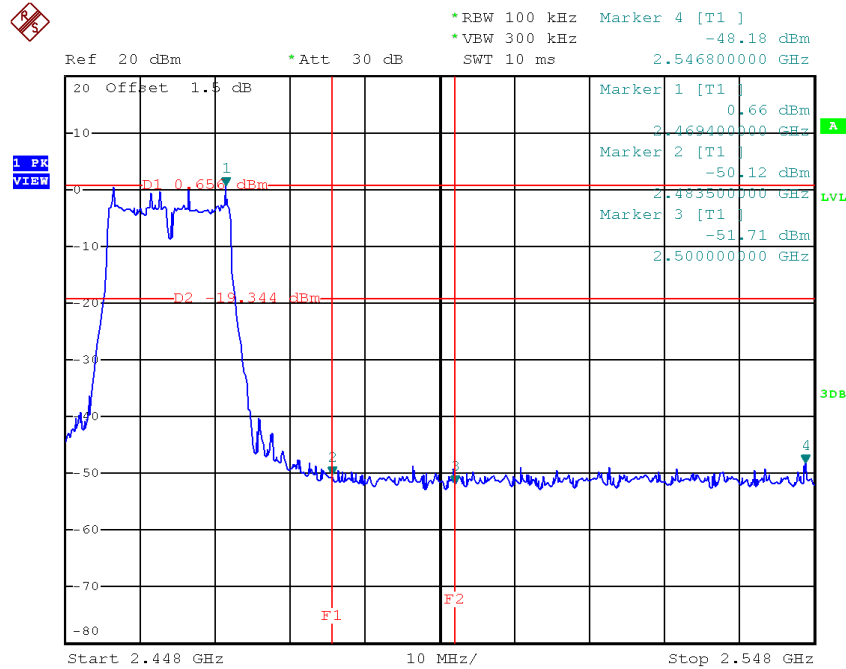
Test Mode : TX G Mode

TX G mode CH01



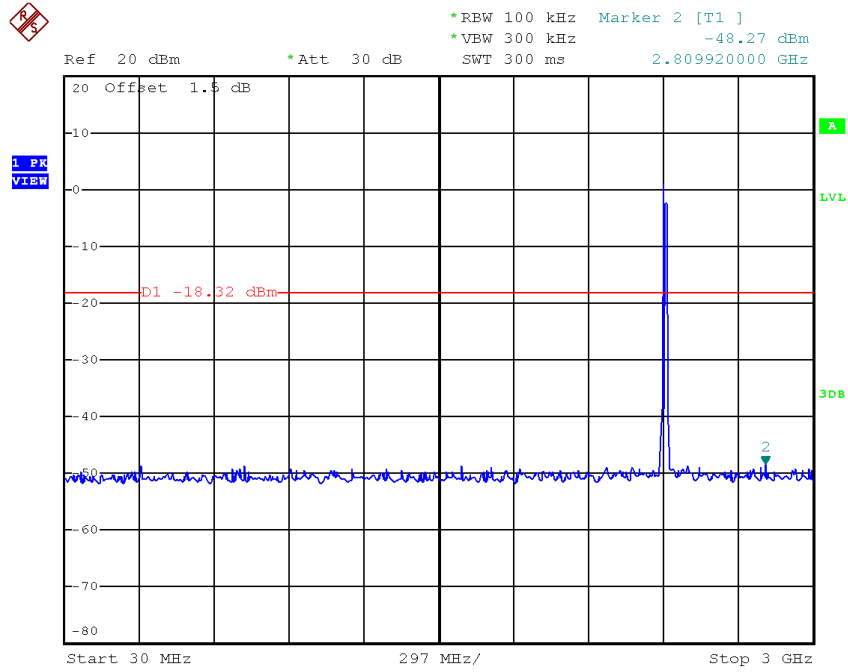
Date: 5.JAN.2018 09:16:19

TX G mode CH11

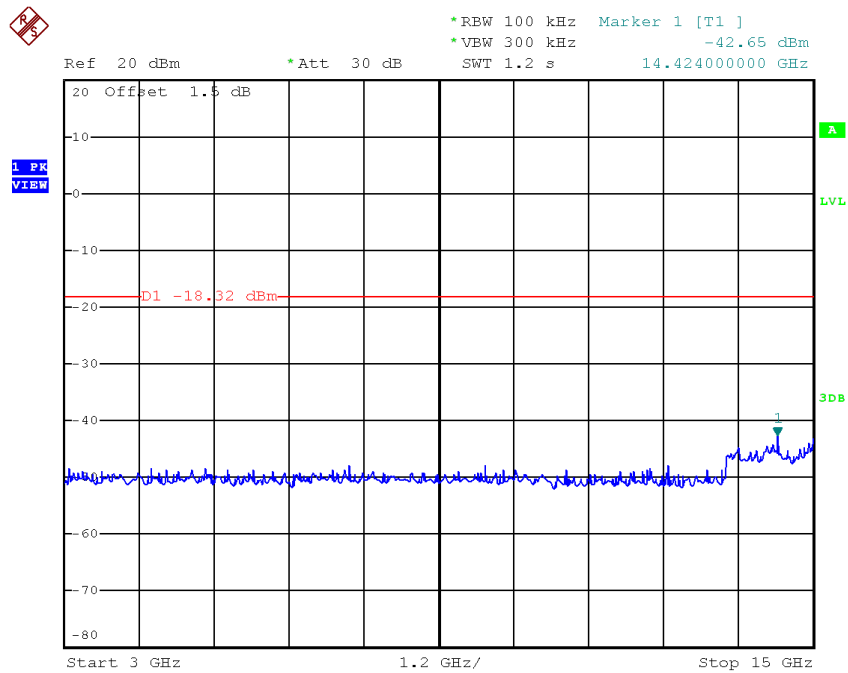


Date: 5.JAN.2018 09:23:31

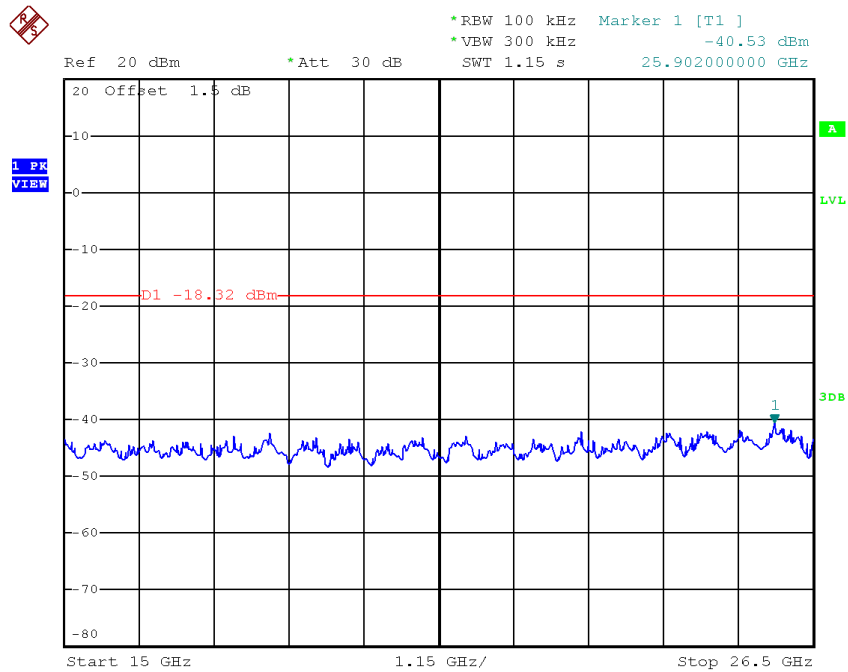
TX G mode CH01 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:16:32

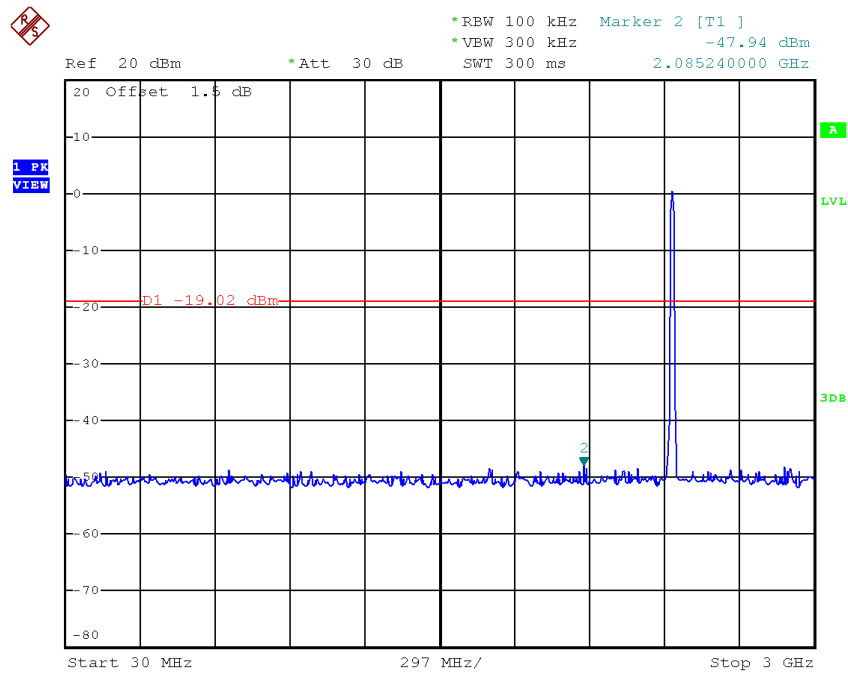


Date: 5.JAN.2018 09:16:39

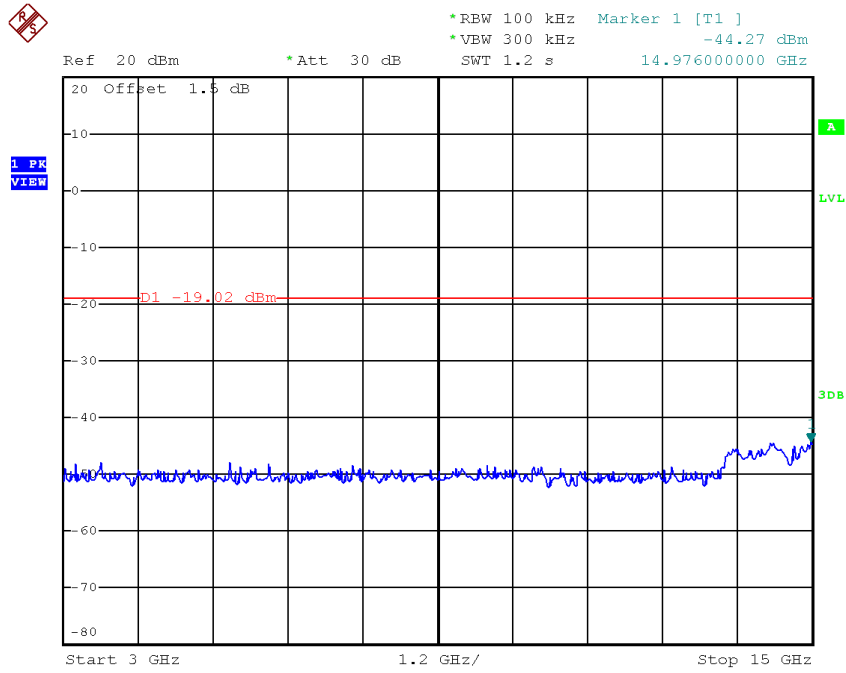


Date: 5.JAN.2018 09:16:46

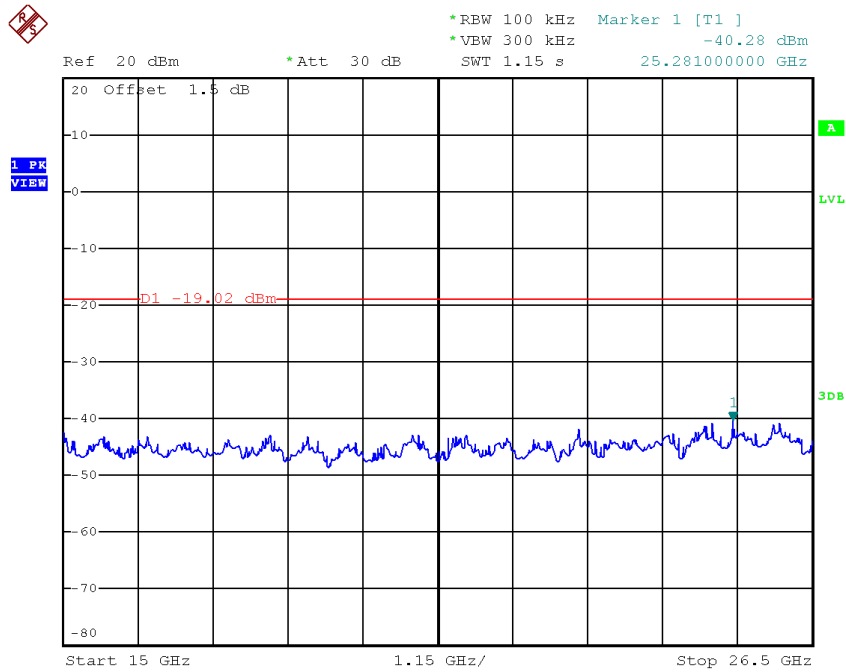
TX G mode CH06 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:21:58

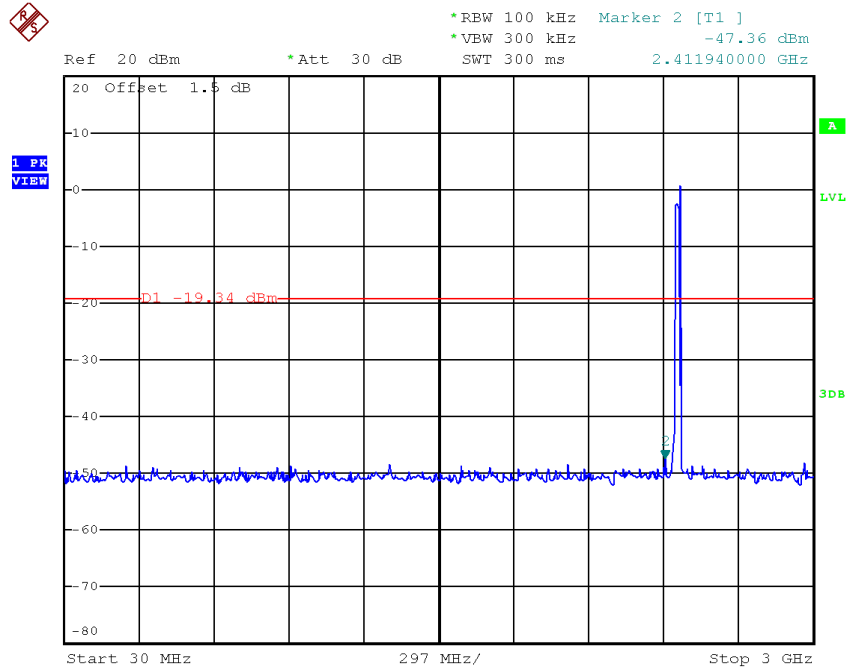


Date: 5.JAN.2018 09:22:05

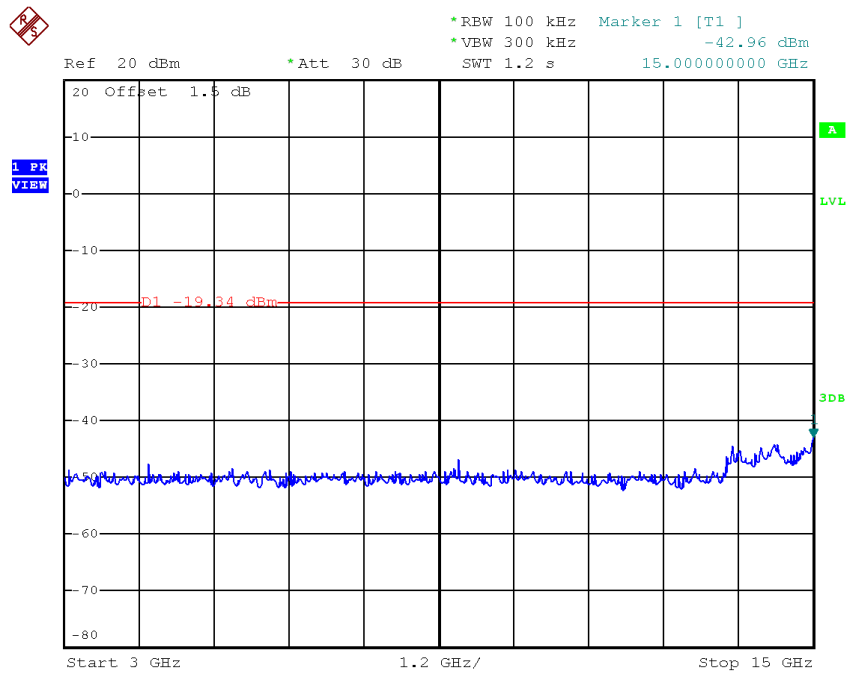


Date: 5.JAN.2018 09:22:12

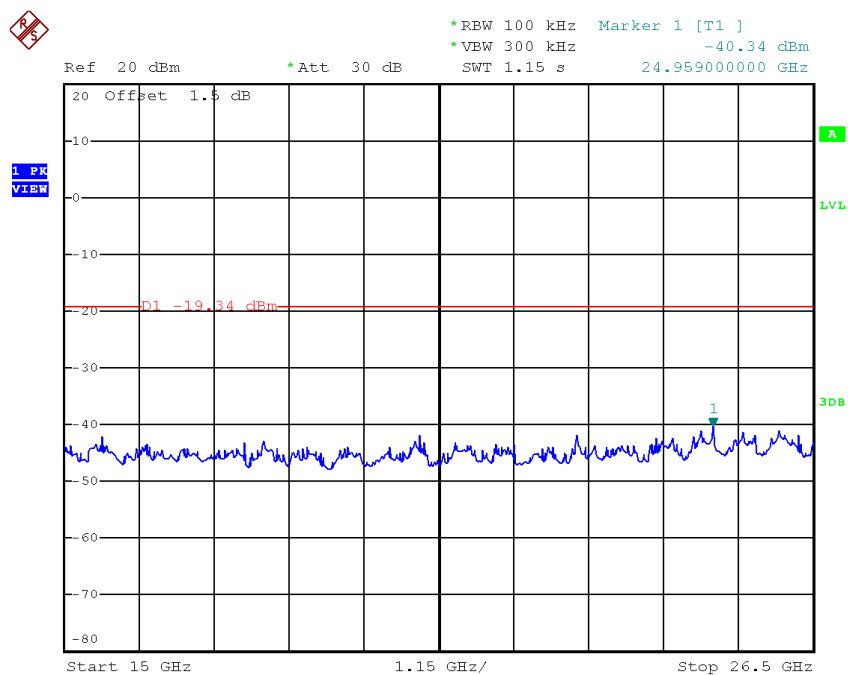
TX G mode CH11 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:23:44



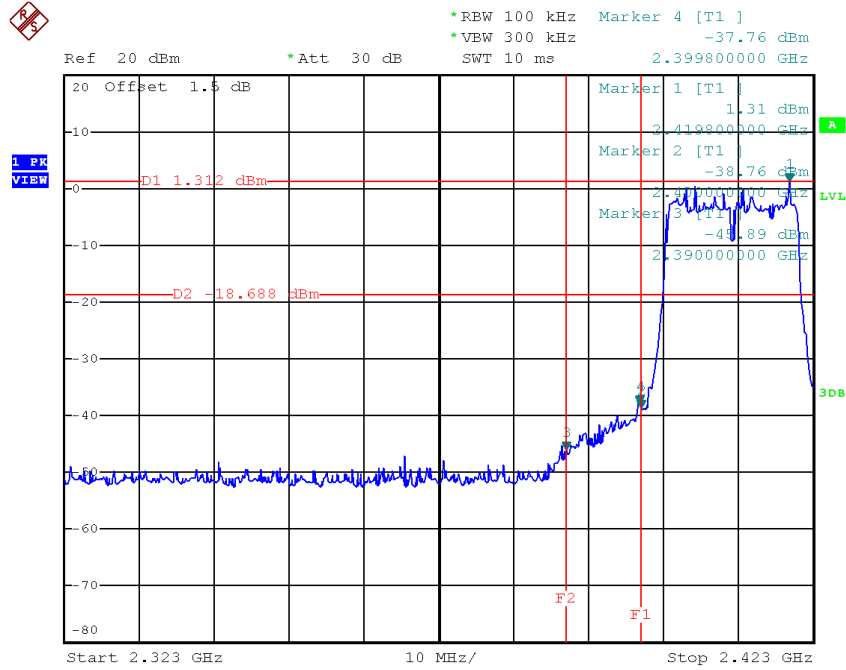
Date: 5.JAN.2018 09:23:51



Date: 5.JAN.2018 09:23:58

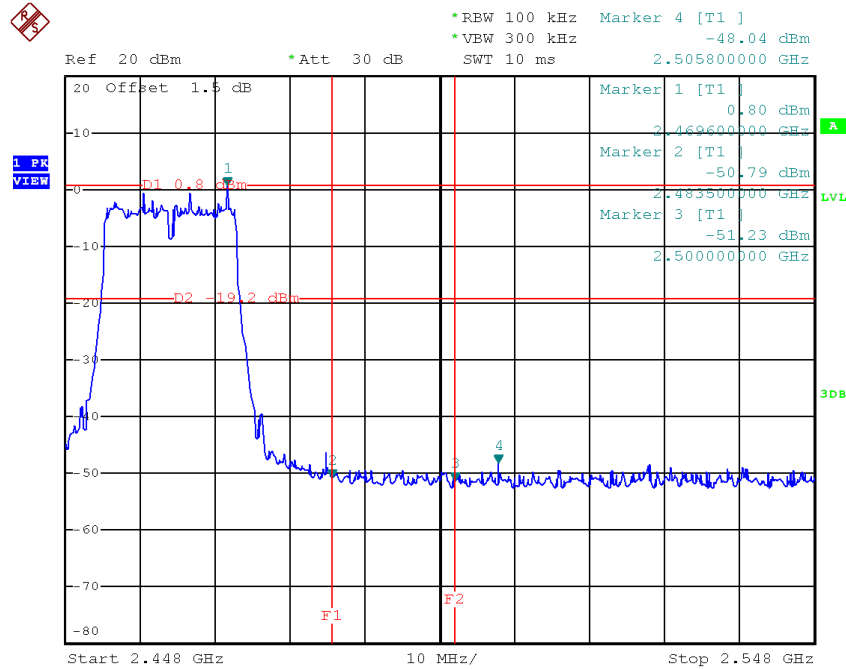
Test Mode : TX N-20M Mode

TX HT20 mode CH01



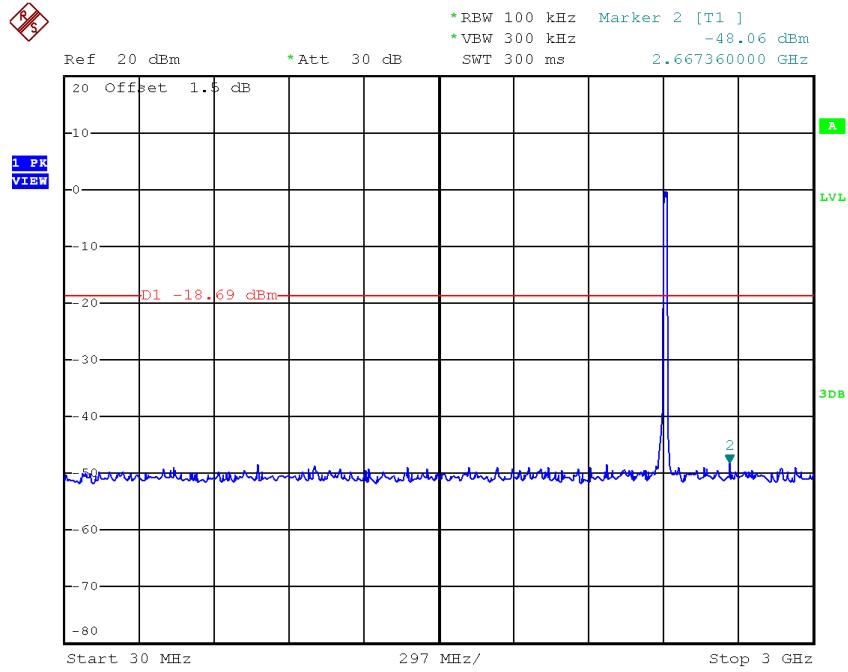
Date: 5.JAN.2018 09:26:07

TX HT20 mode CH11

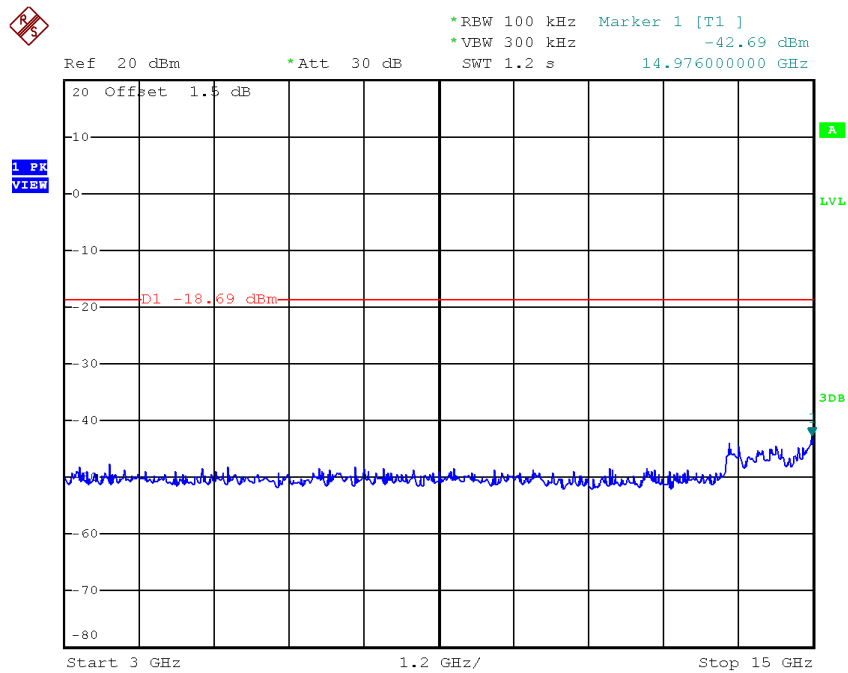


Date: 5.JAN.2018 09:29:05

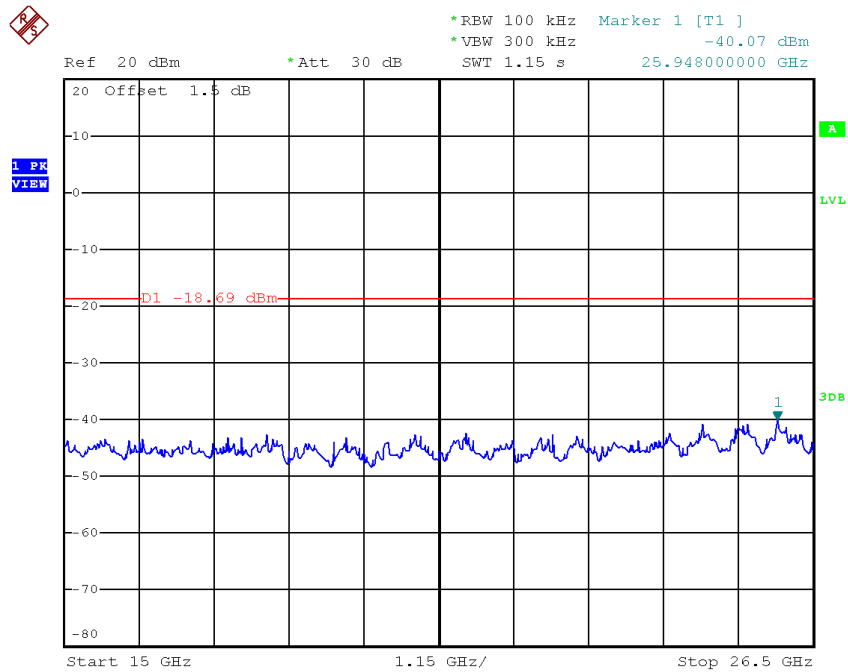
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:26:20

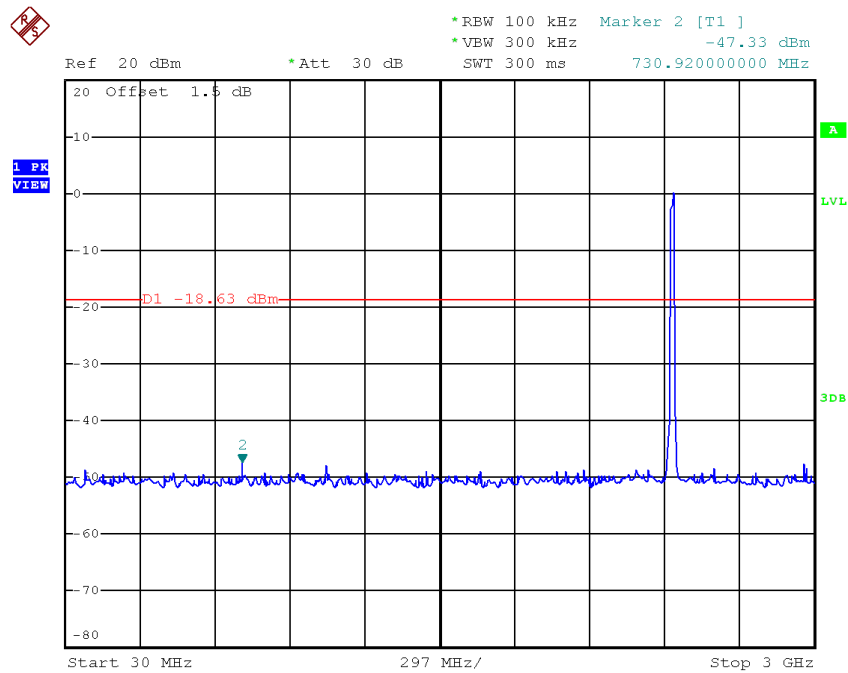


Date: 5.JAN.2018 09:26:27

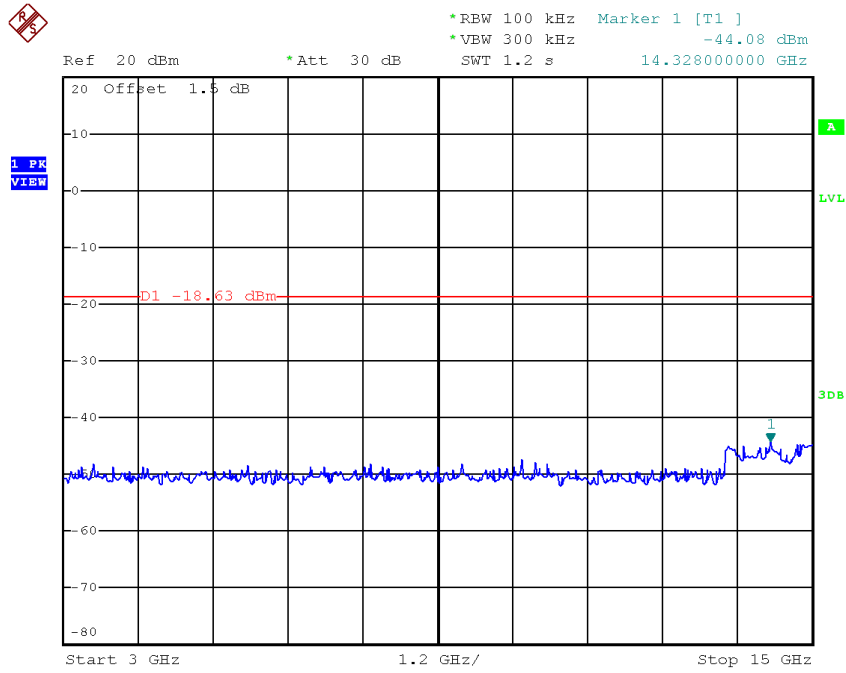


Date: 5.JAN.2018 09:26:34

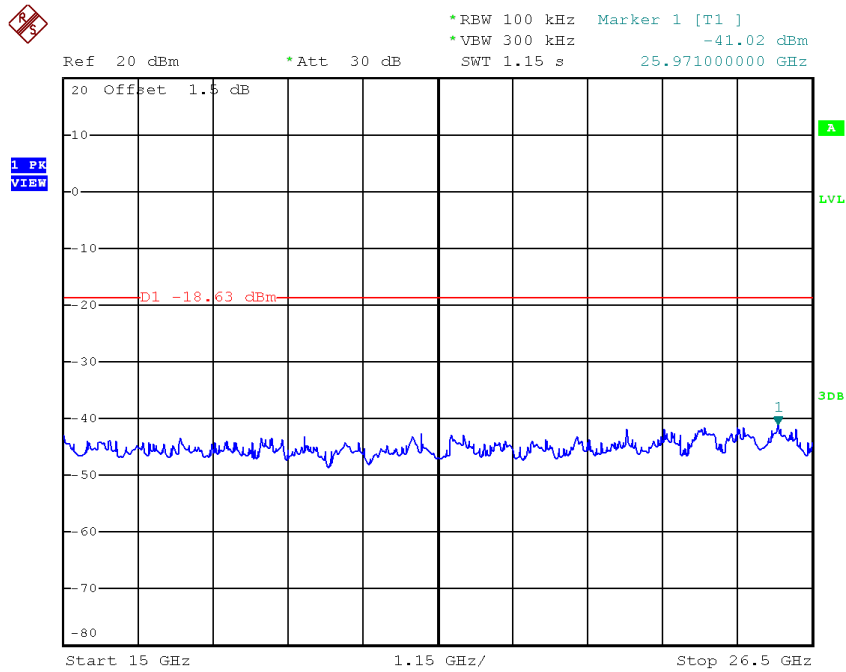
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:27:32

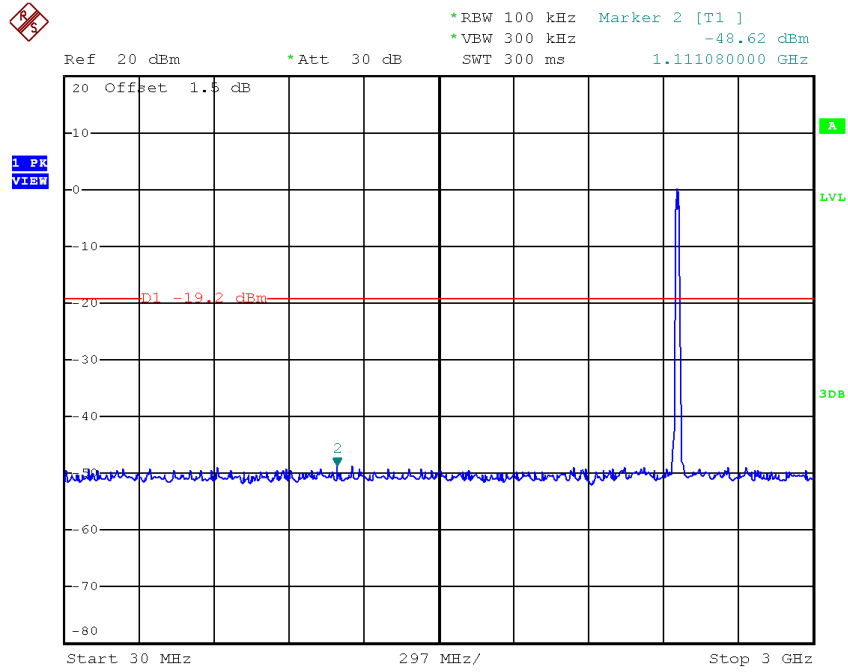


Date: 5.JAN.2018 09:27:40

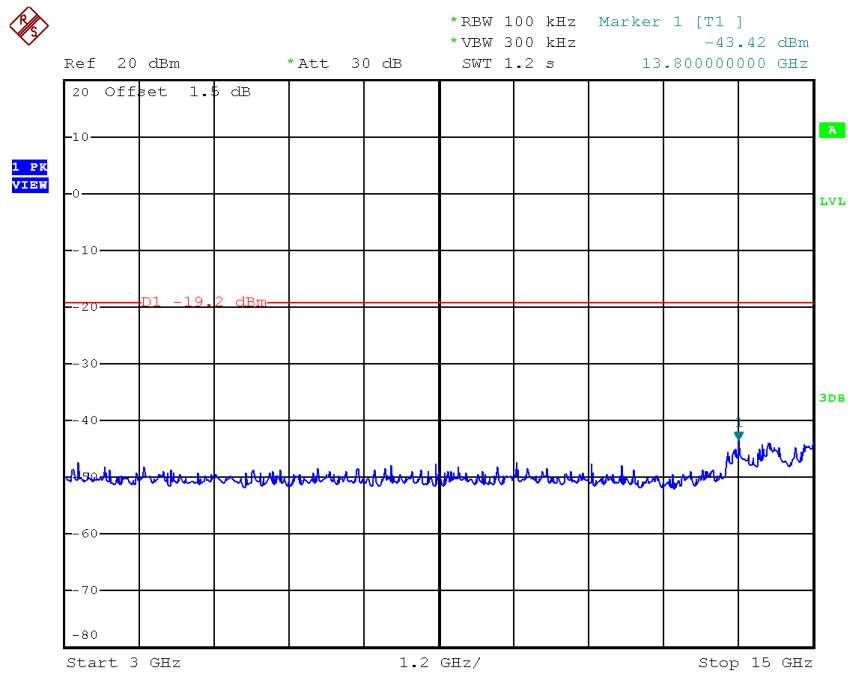


Date: 5.JAN.2018 09:27:47

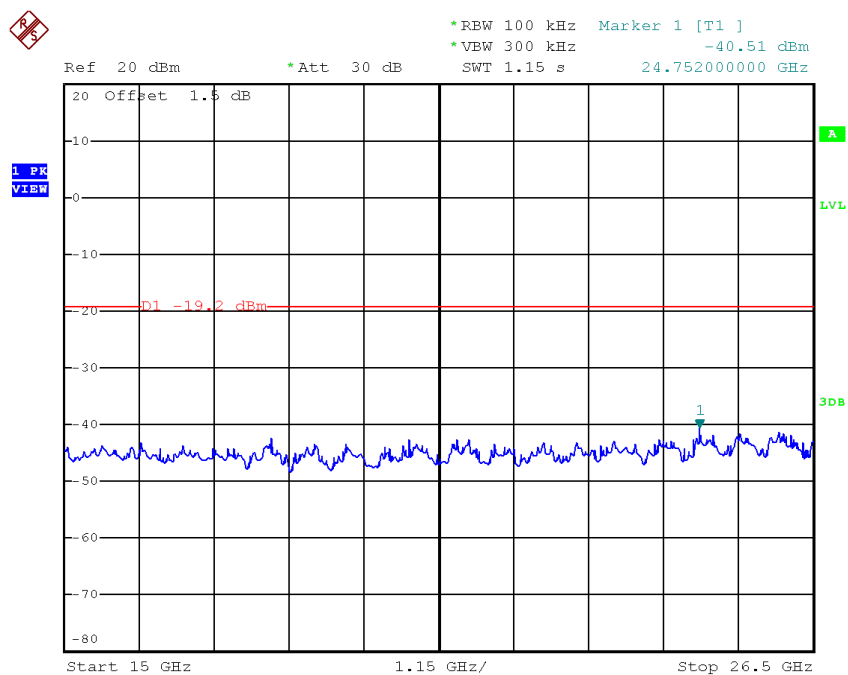
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:29:18



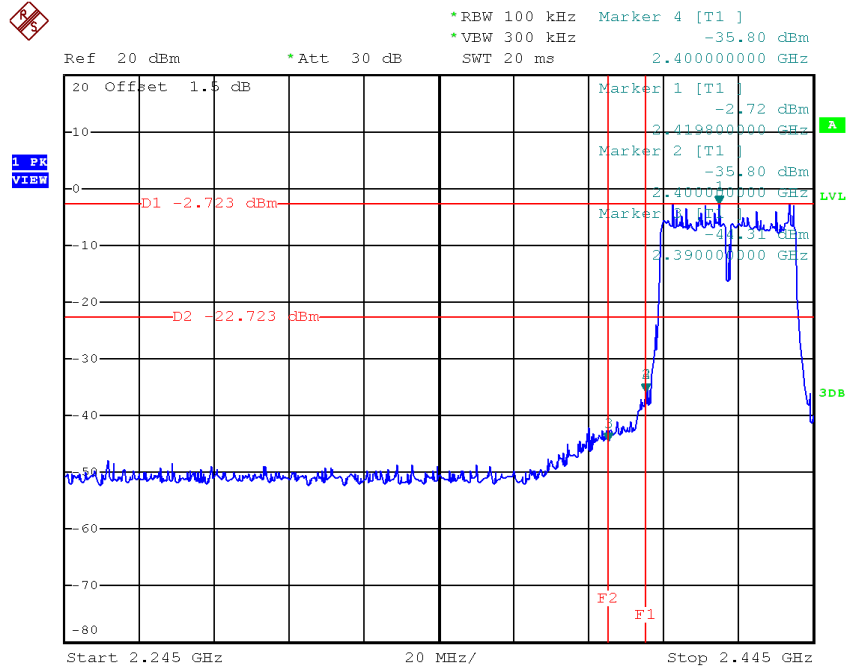
Date: 5.JAN.2018 09:29:25



Date: 5.JAN.2018 09:29:32

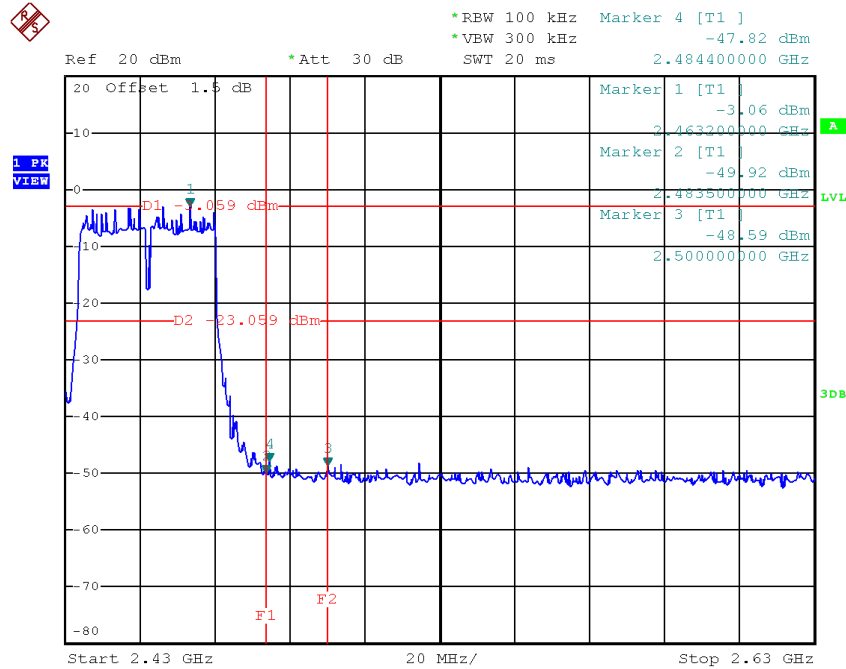
Test Mode : TX N-40M Mode

TX HT40 mode CH03



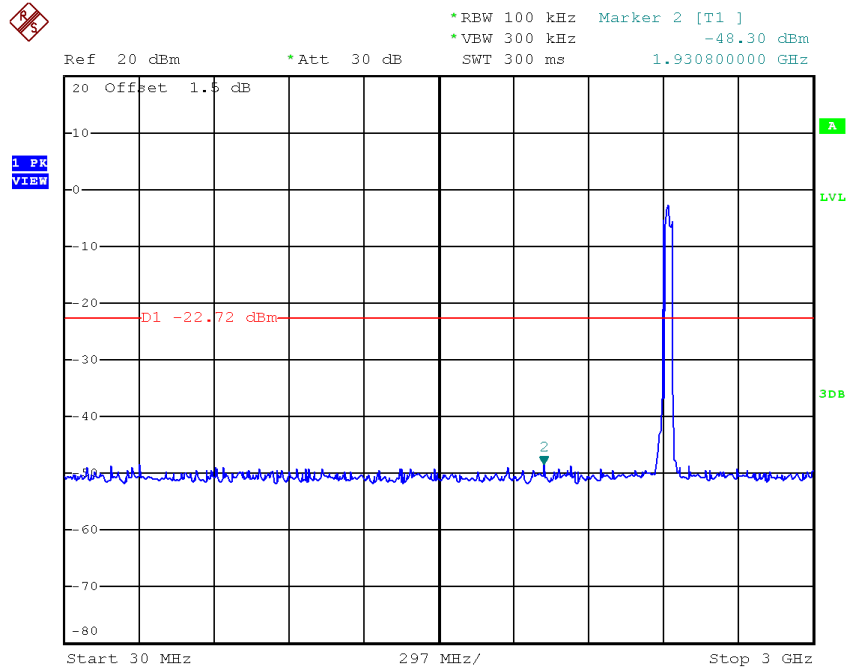
Date: 5.JAN.2018 09:31:53

TX HT40 mode CH09

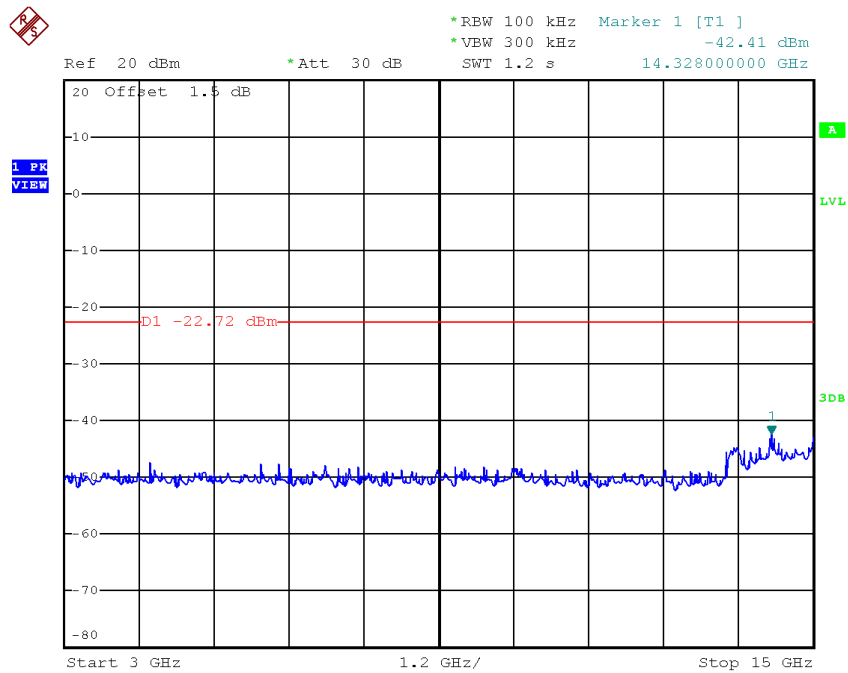


Date: 5.JAN.2018 09:37:20

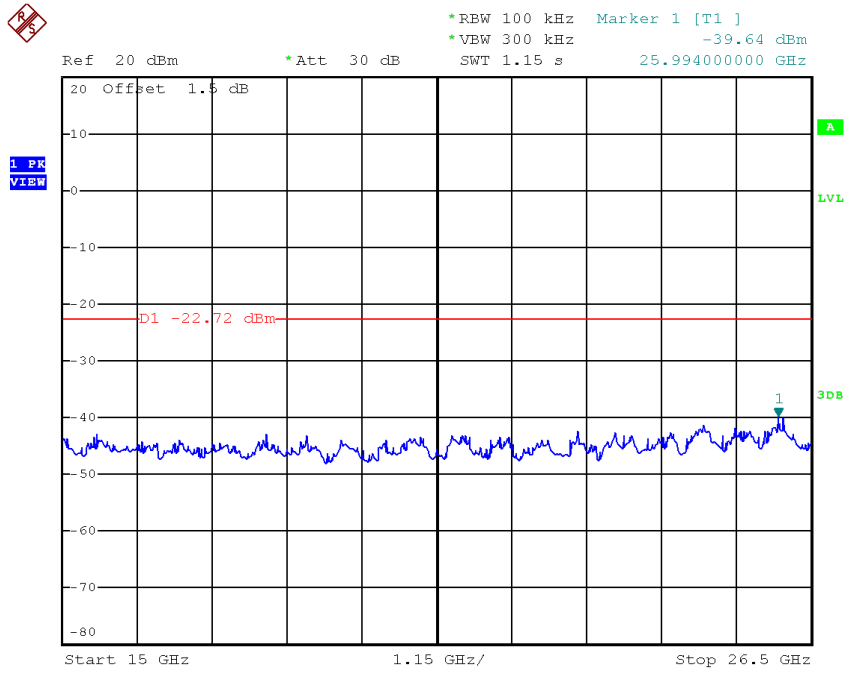
TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:32:06

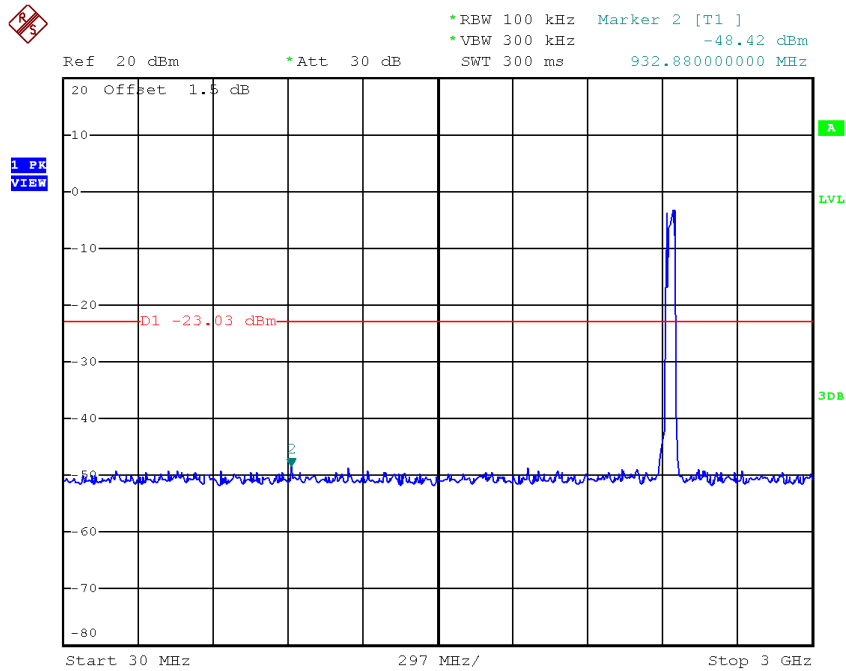


Date: 5.JAN.2018 09:32:13

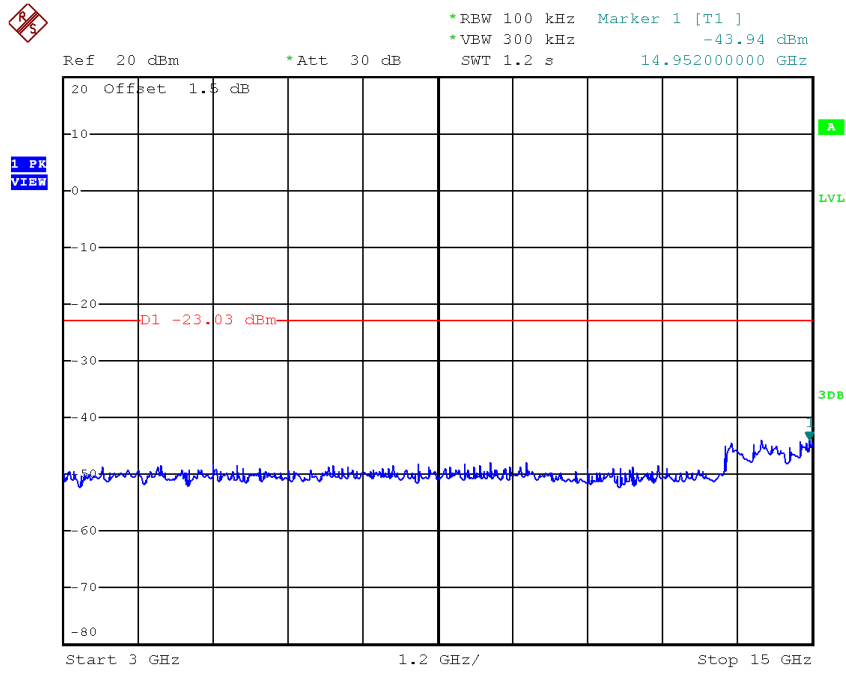


Date: 5.JAN.2018 09:32:20

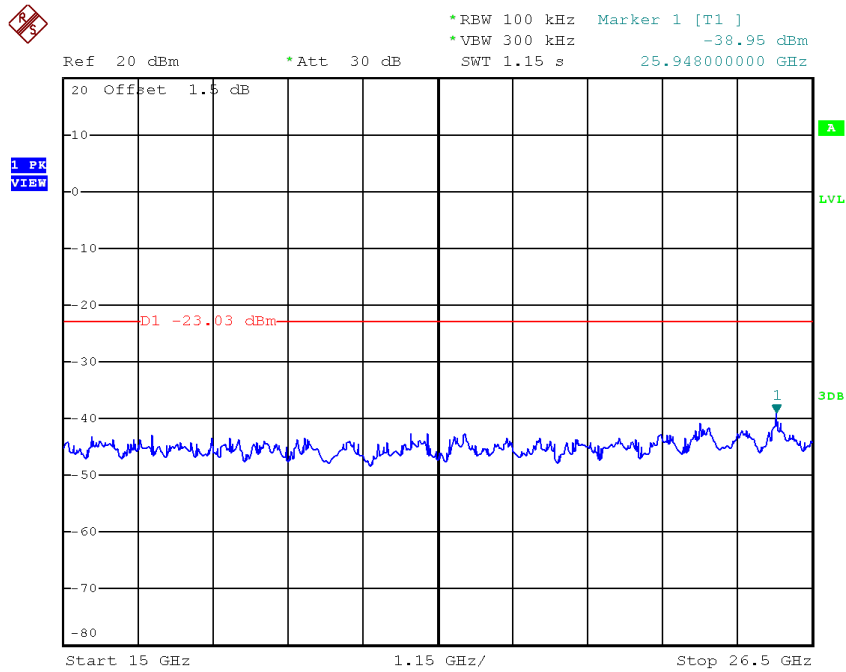
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:33:22

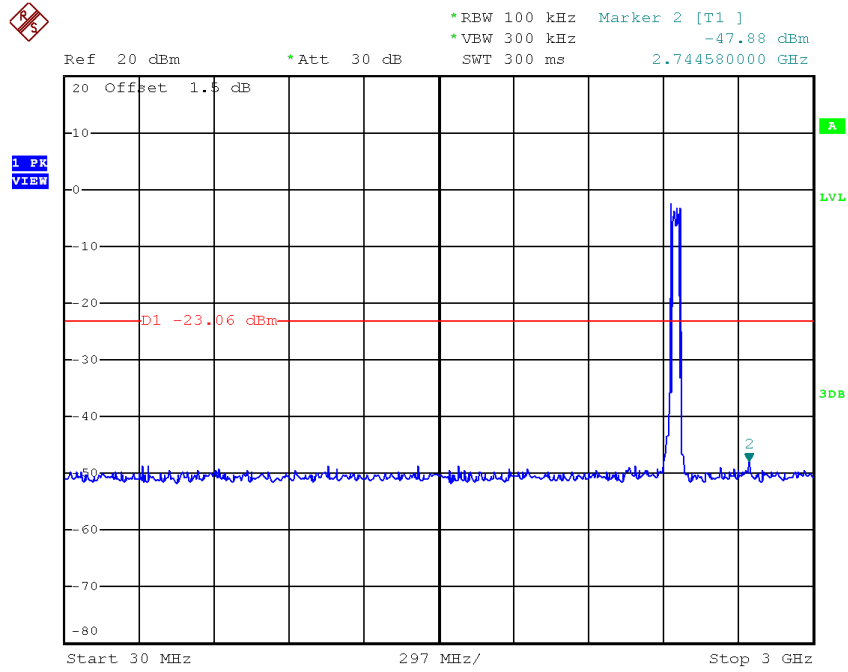


Date: 5.JAN.2018 09:33:29

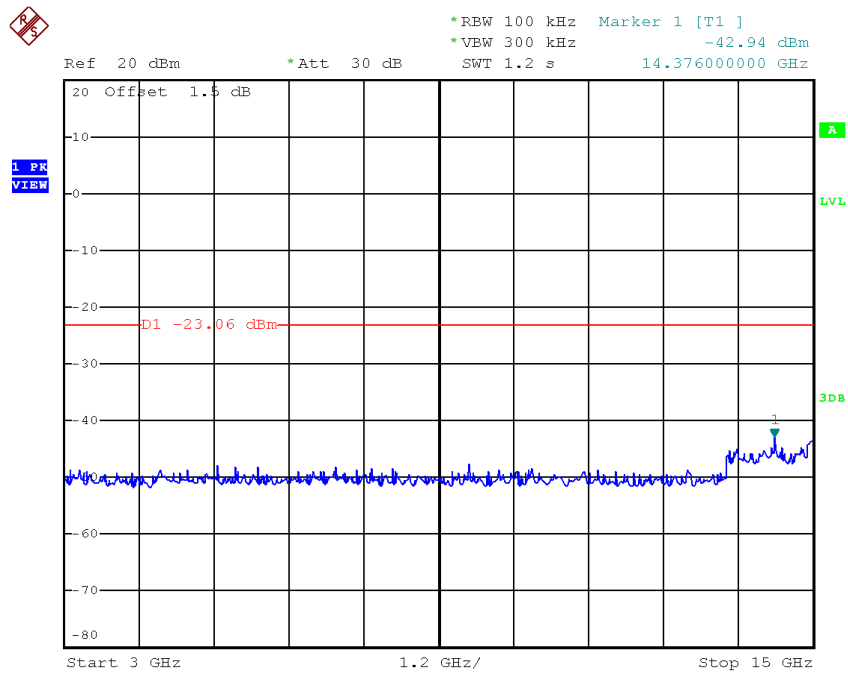


Date: 5.JAN.2018 09:33:36

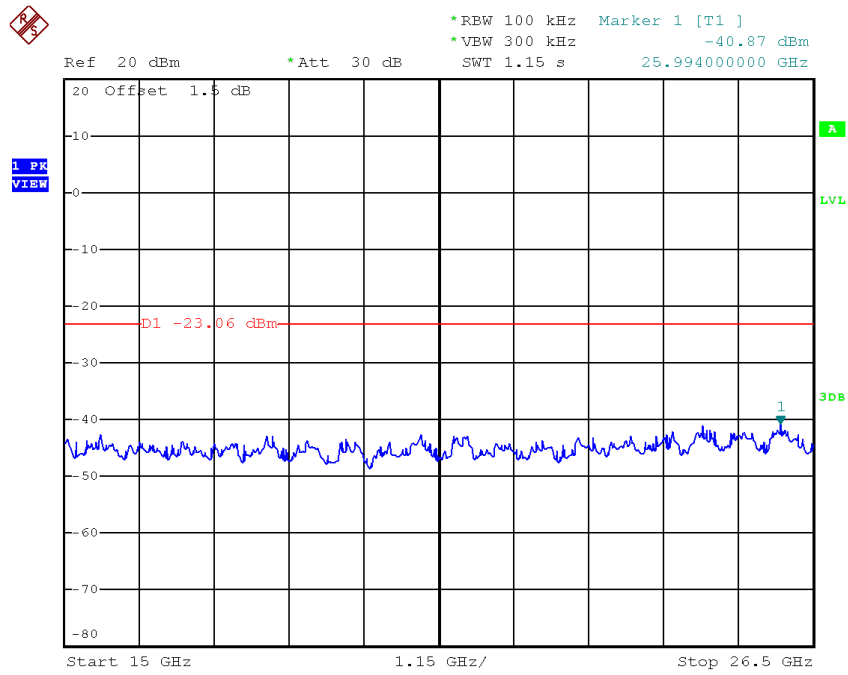
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 5.JAN.2018 09:37:33



Date: 5.JAN.2018 09:37:40



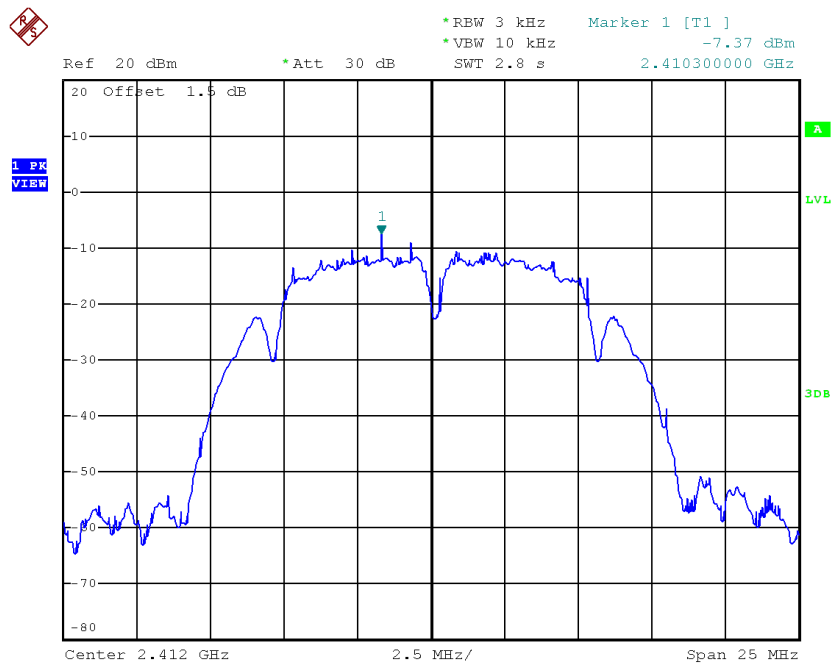
Date: 5.JAN.2018 09:37:47

APPENDIX H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

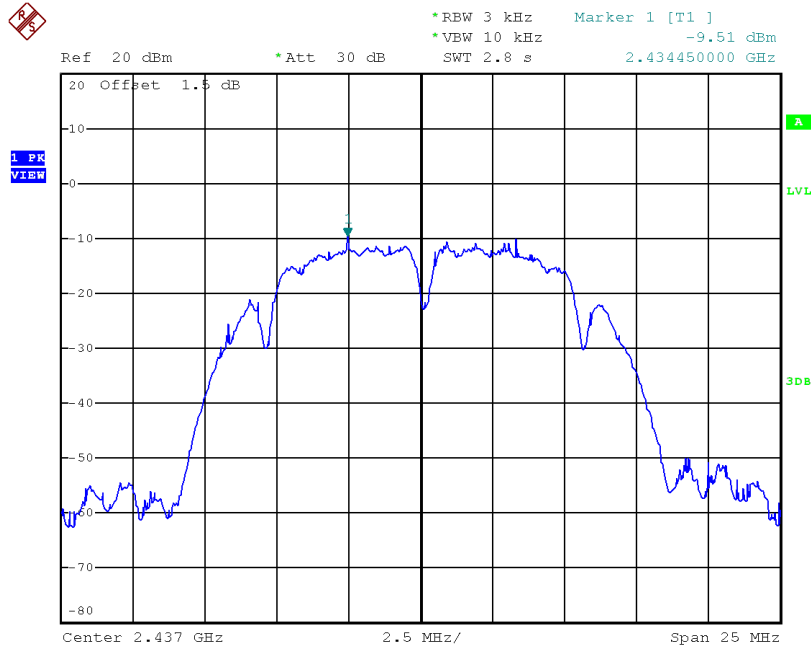
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.37	0.1832	8.00	Complies
2437	-9.51	0.1119	8.00	Complies
2462	-9.78	0.1052	8.00	Complies

TX CH01



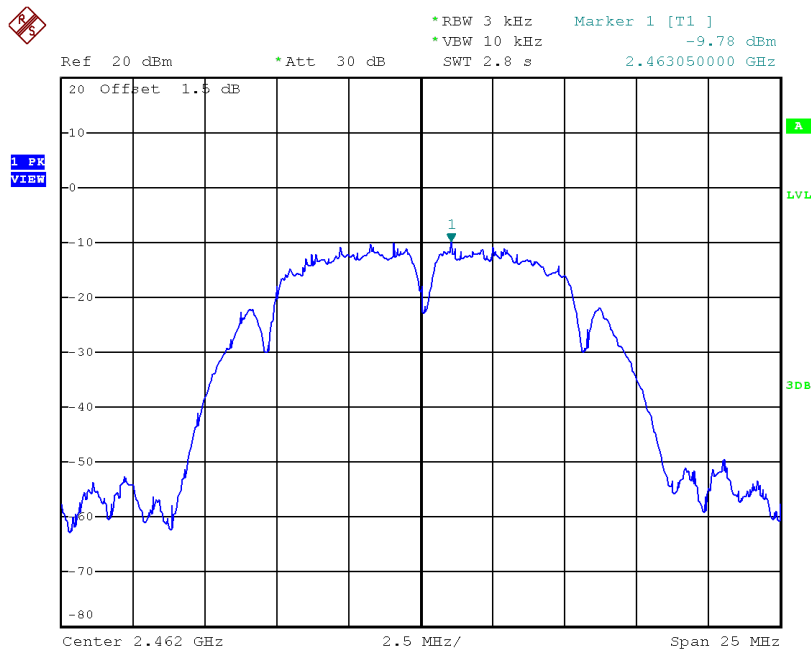
Date: 6.DEC.2017 09:14:23

TX CH06



Date: 6.DEC.2017 09:16:09

TX CH11

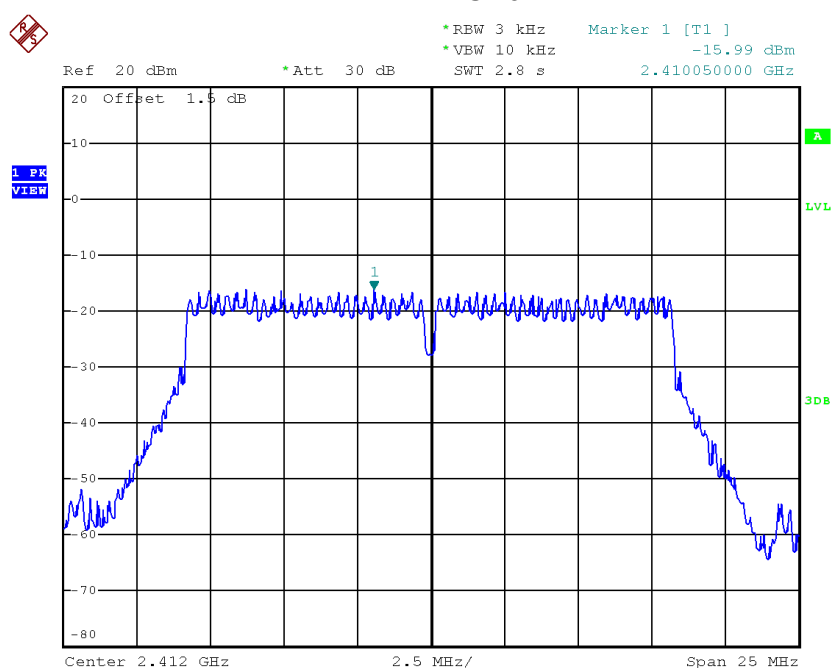


Date: 6.DEC.2017 09:17:39

Test Mode :TX G Mode_CH01/06/11

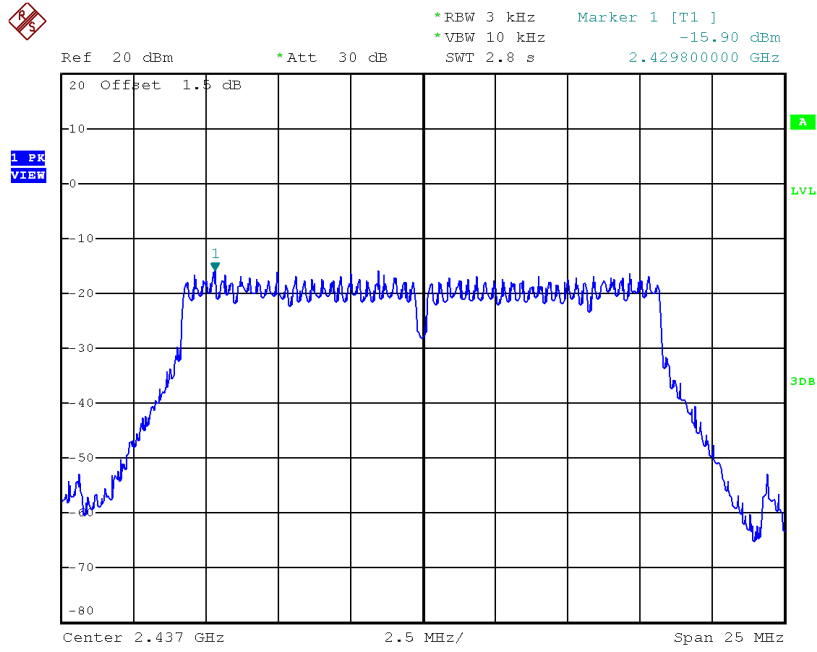
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.99	0.0252	8.00	Complies
2437	-15.90	0.0257	8.00	Complies
2462	-16.21	0.0239	8.00	Complies

TX CH01



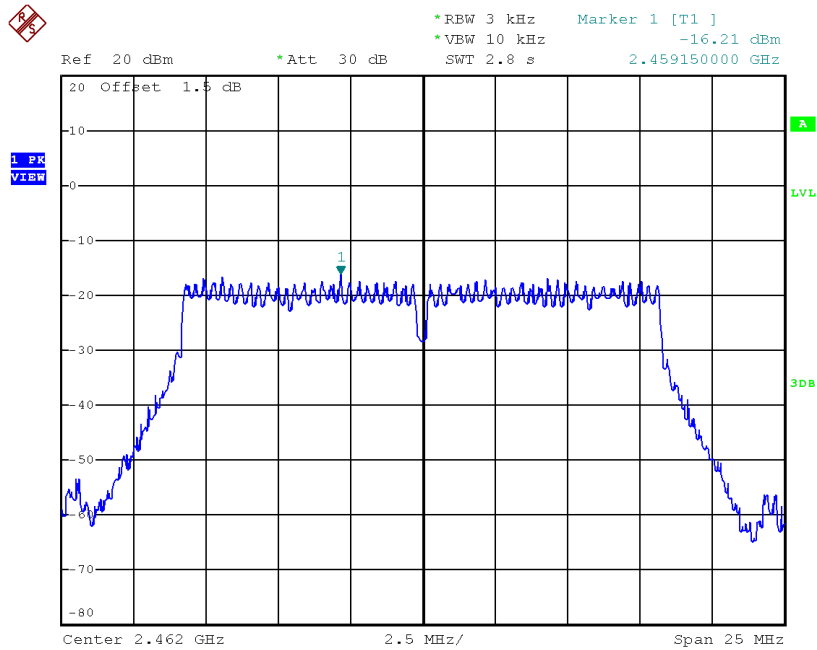
Date: 5.JAN.2018 09:16:55

TX CH06



Date: 5.JAN.2018 09:22:21

TX CH11

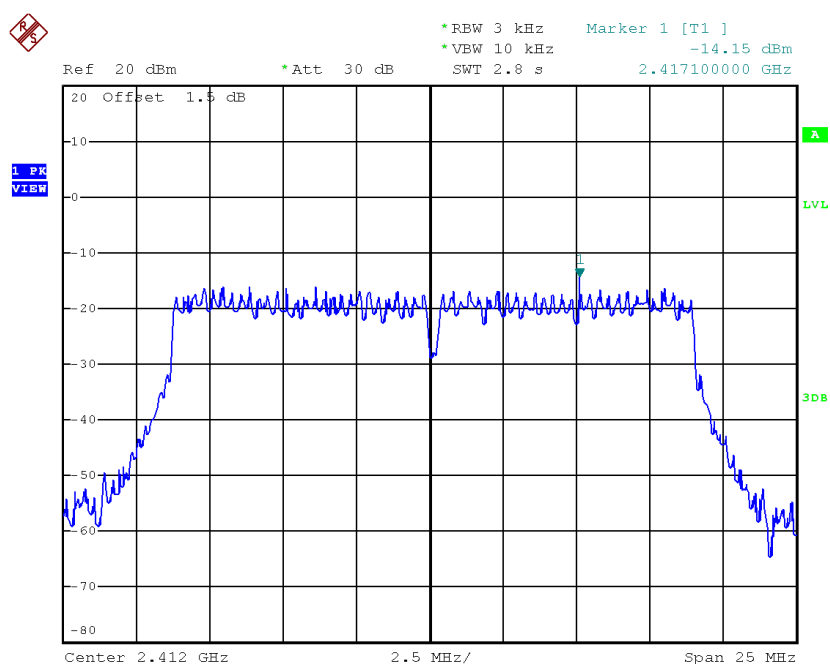


Date: 5.JAN.2018 09:24:07

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

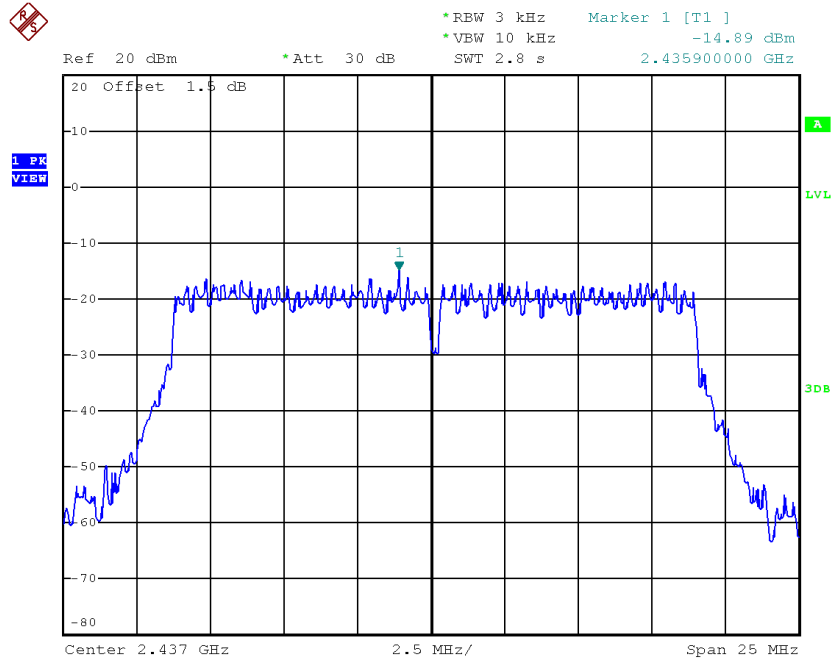
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.15	0.0385	8.00	Complies
2437	-14.89	0.0324	8.00	Complies
2462	-15.70	0.0269	8.00	Complies

TX CH01



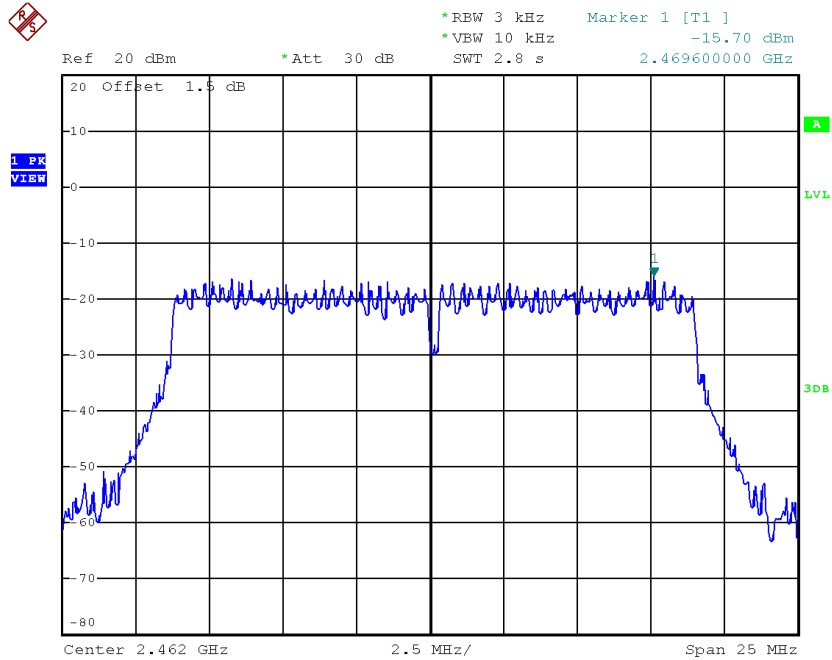
Date: 5.JAN.2018 09:26:43

TX CH06



Date: 5.JAN.2018 09:27:55

TX CH11

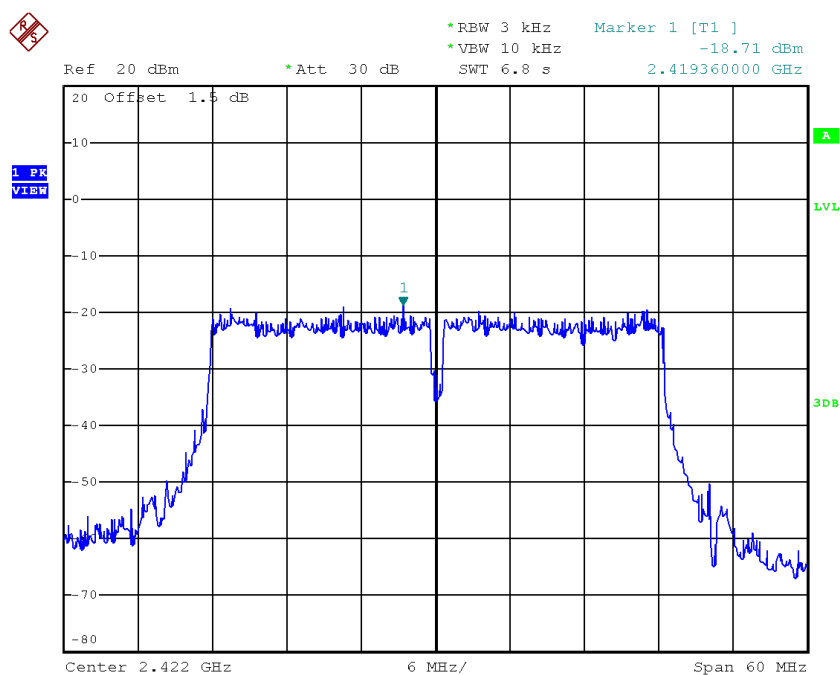


Date: 5.JAN.2018 09:29:40

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

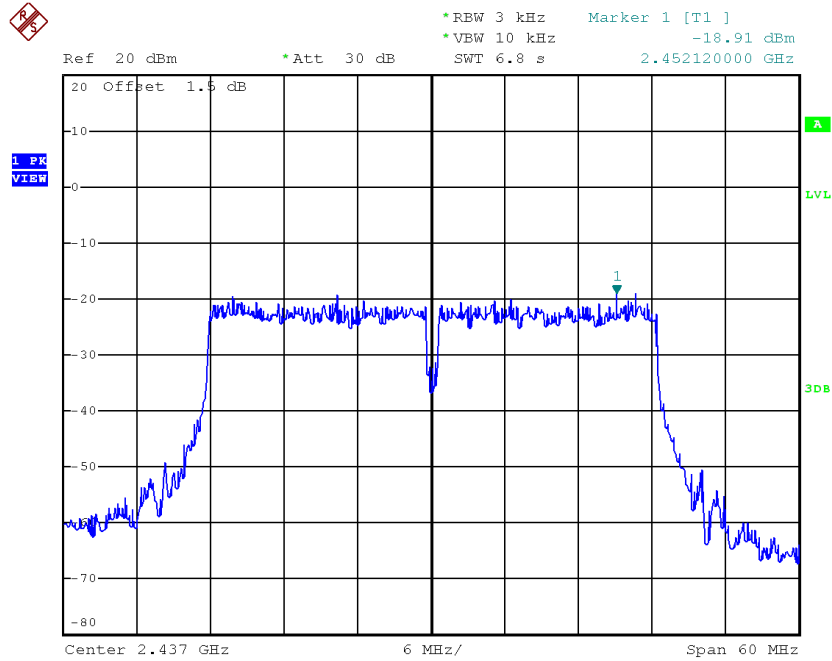
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.71	0.0135	8.00	Complies
2437	-18.91	0.0129	8.00	Complies
2452	-19.18	0.0121	8.00	Complies

TX CH03



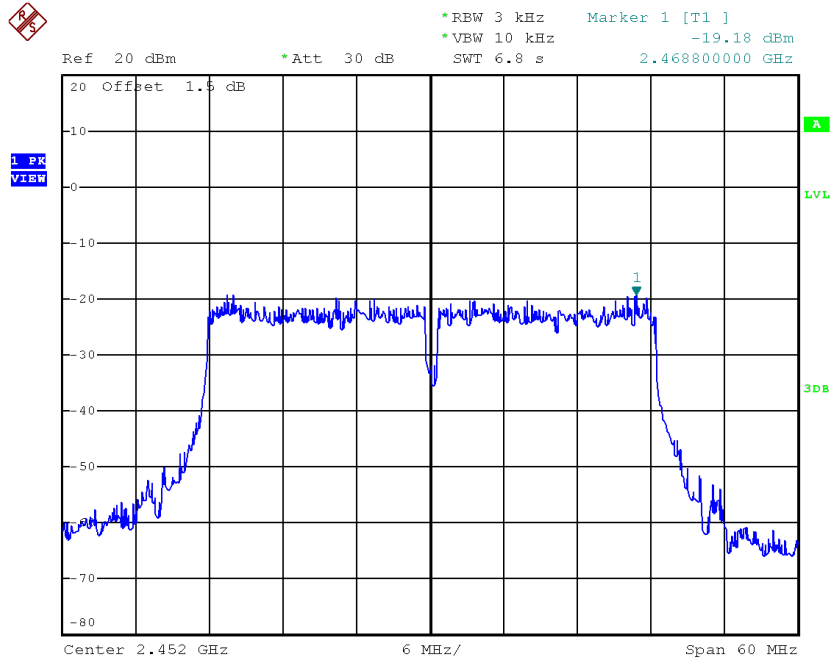
Date: 5.JAN.2018 09:32:31

TX CH06



Date: 5.JAN.2018 09:33:48

TX CH09



Date: 5.JAN.2018 09:37:59