

FCC Radio Test Report

FCC ID: 2ABZMEW9

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

Project No. : 1807C083
Equipment : AC1200 Enterprise Mesh WiFi System
Test Model : EW9
Series Model : EP9
Applicant : SHENZHEN IP-COM NETWORKS CO.,LTD
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China. 518052

Date of Receipt : Jul. 17, 2018
Date of Test : Jul. 17, 2018~Jul. 26, 2018
Issued Date : Jul. 31, 2018
Tested by : BTL Inc.

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TESTING
NVLAP LAB CODE 200788-0

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The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1807C083	Original Issue.	Jul. 31, 2018

1. CERTIFICATION

Equipment : AC1200 Enterprise Mesh WiFi System
Brand Name : IP-COM
Test Model : EW9
Series Model : EP9
Applicant : SHENZHEN IP-COM NETWORKS CO.,LTD
Manufacturer : SHENZHEN IP-COM NETWORKS CO.,LTD
Address : Unit A, First Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Test : Jul. 17, 2018~Jul. 26, 2018
Test Sample : Engineering Sample No.: D180705799
Standard(s) : FCC Part15, Subpart C (15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1807C083) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Enterprise Mesh WiFi System				
Brand Name	IP-COM				
Test Model	EW9				
Series Model	EP9				
Model Difference	EP9 removed 4 Ethernet ports with its peripheral circuits based on EW9, and thus one crystal is reduced for EP9 due to the removement.				
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.) - Non Beamforming	802.11b: 28.47 dBm 802.11g: 28.44 dBm 802.11n(20MHz): 28.24 dBm 802.11n(40MHz): 28.21 dBm			
	Output Power (Max.) - Beamforming	802.11n(20MHz): 25.42 dBm 802.11n(40MHz): 25.38 dBm			
Power Source	DC voltage supplied from AC/DC adapter. Model:BN036-A12012U				
Power Rating	I/P:100-240V~ 50/60Hz 0.4A O/P:12V --- 1.0A				

Note:

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

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	4.5
2	N/A	N/A	PCB	N/A	4.5

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely correlated, then,

for Non-beamforming function,

Direction gain = $G_{ANT}+10\log(N)dBi=4.5+10\log(2)$, that is Directional gain=7.51.

So, the out power limit is $30-7.51+6=28.49$,

the power density limit is $8-7.51+6=6.49$,

for beamforming function,

Beamforming Gain=3 dBi, Direction gain = 7.51,

So, the out power limit is $30-7.51-3+6=25.49$

the power density limit is $8-7.51-3+6=3.49$

4. Operating Mode

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

ANT 2 for 1TX was found to be the worst case and recorded.

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test

Final Test Mode	Description
Mode 5	TX Mode

For Radiated Test

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

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

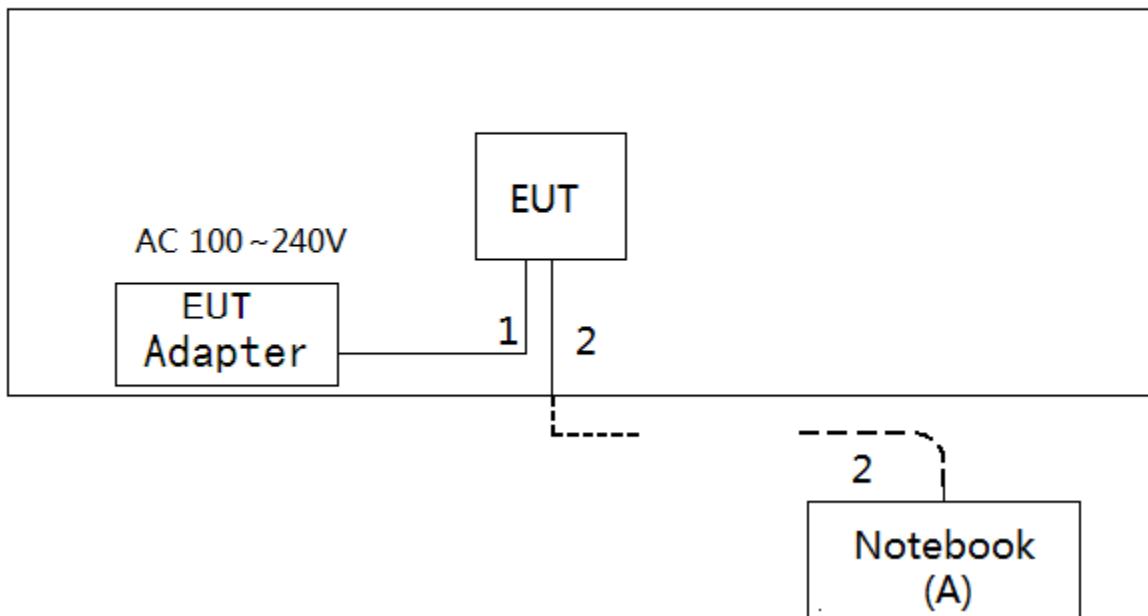
Non-Beamforming

Test software version	MP_TEST		
Frequency (MHz)	2412	2437	2462
802.11b	49	50	51
802.11g	35	36	37
802.11n (20MHz)	35/30	36/32	37/33
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	37/32	38/33	39/34

Beamforming

Test software version	MP_TEST		
Frequency (MHz)	2412	2437	2462
802.11n (20MHz)	29/27	30/27	30/28
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	31/37	32/28	32/28

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Notebook	DELL	INSPIRON 1420	N/A	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable
2	NO	NO	10m	RJ45 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 (dB μ V)	
	Quasi-peak	Average
0.15 -0.50	60 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

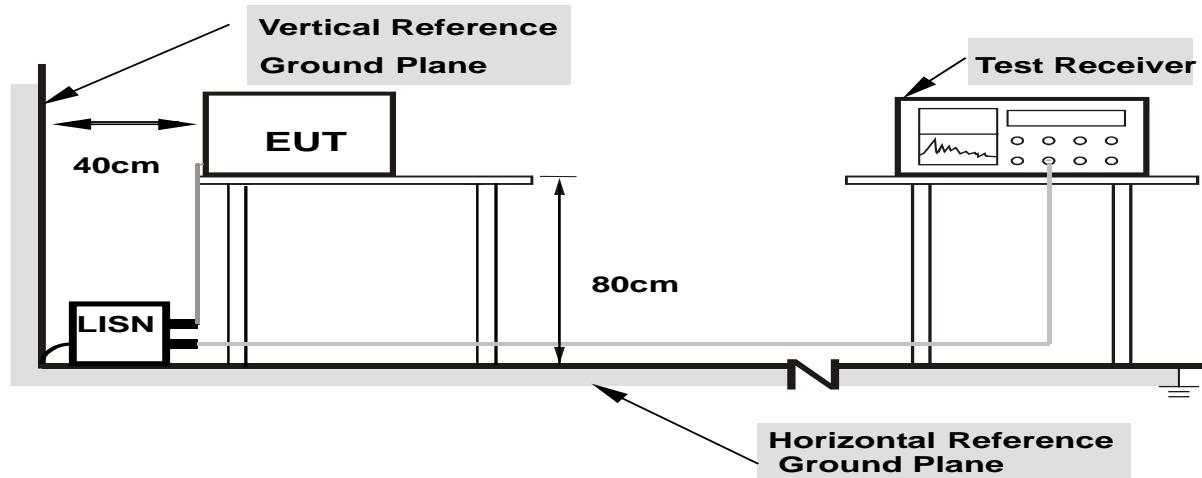
4.1.2 TEST PROCEDURE

- 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 cm 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

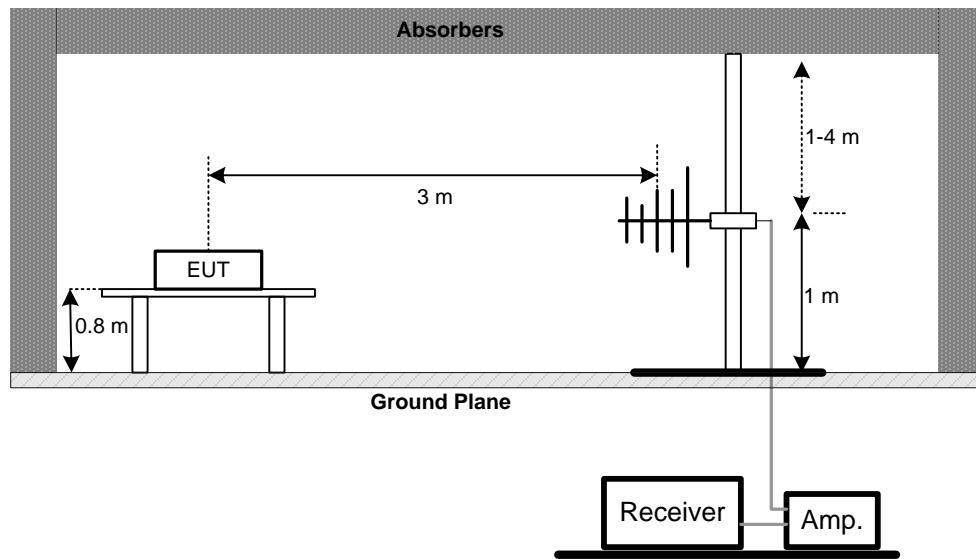
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

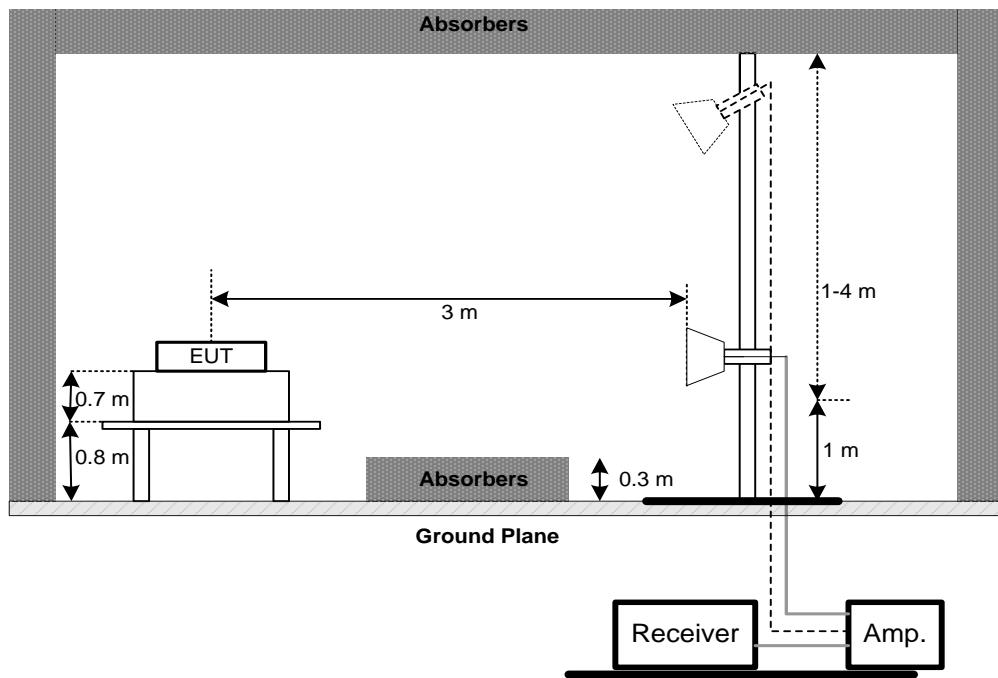
No deviation

4.2.4 TEST SETUP

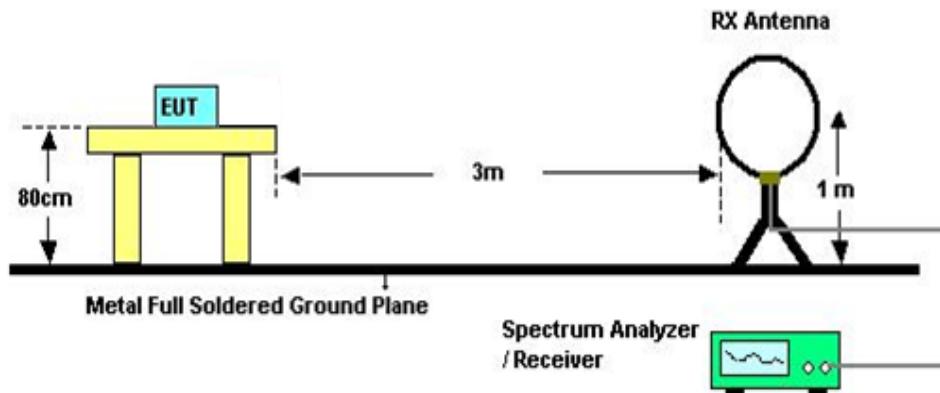
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 (dB_{UV}) + 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

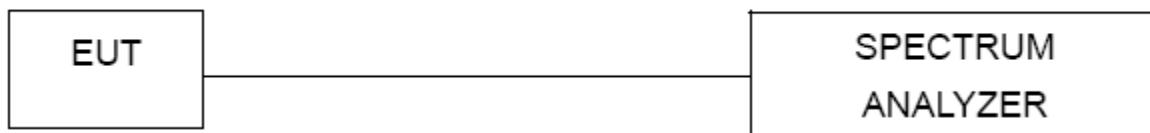
5.1.1 TEST PROCEDURE

- 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

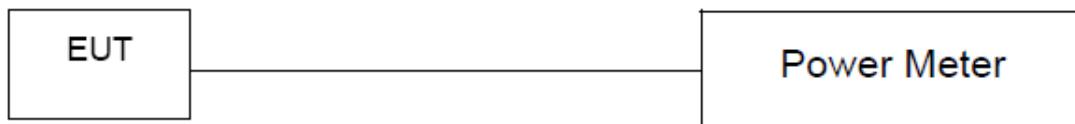
6.1.1 TEST PROCEDURE

- 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 v04 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.

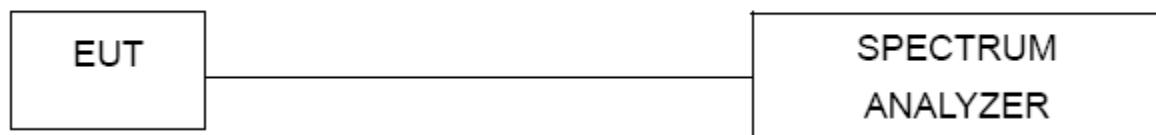
7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the 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

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Appendix H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 19, 2018

Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	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-1GHz)(8m+5m)	N/A	Jun. 26, 2019
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019

Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
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, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

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

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

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

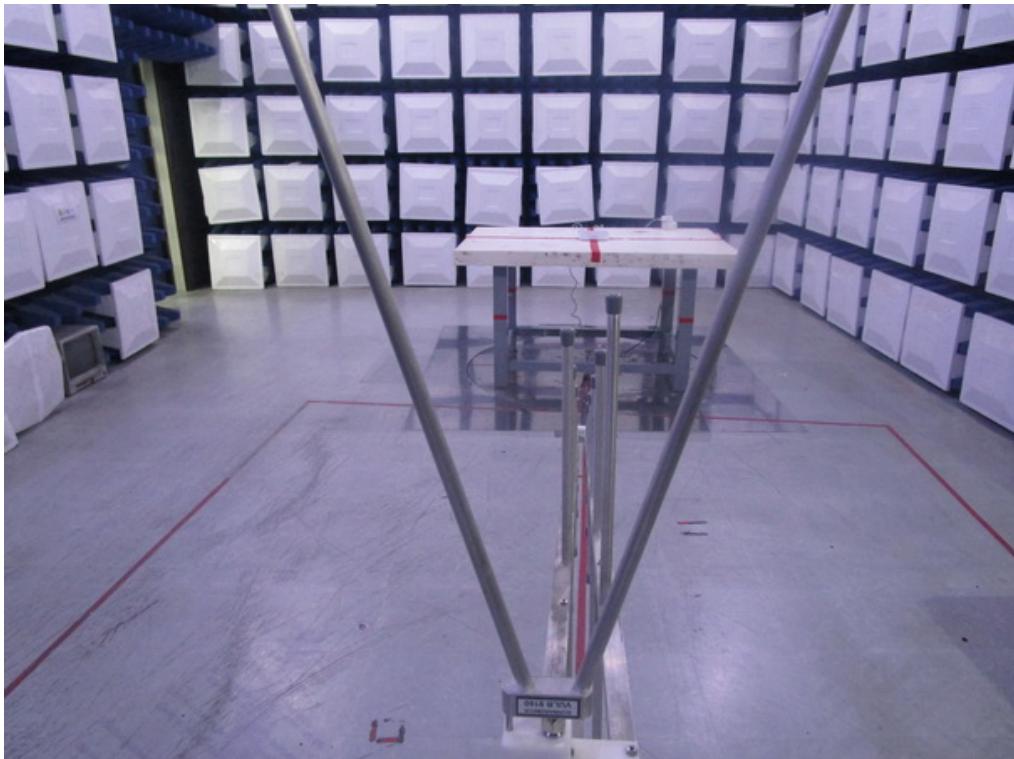
All calibration period of equipment list is one year.

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

Radiated Measurement Photos

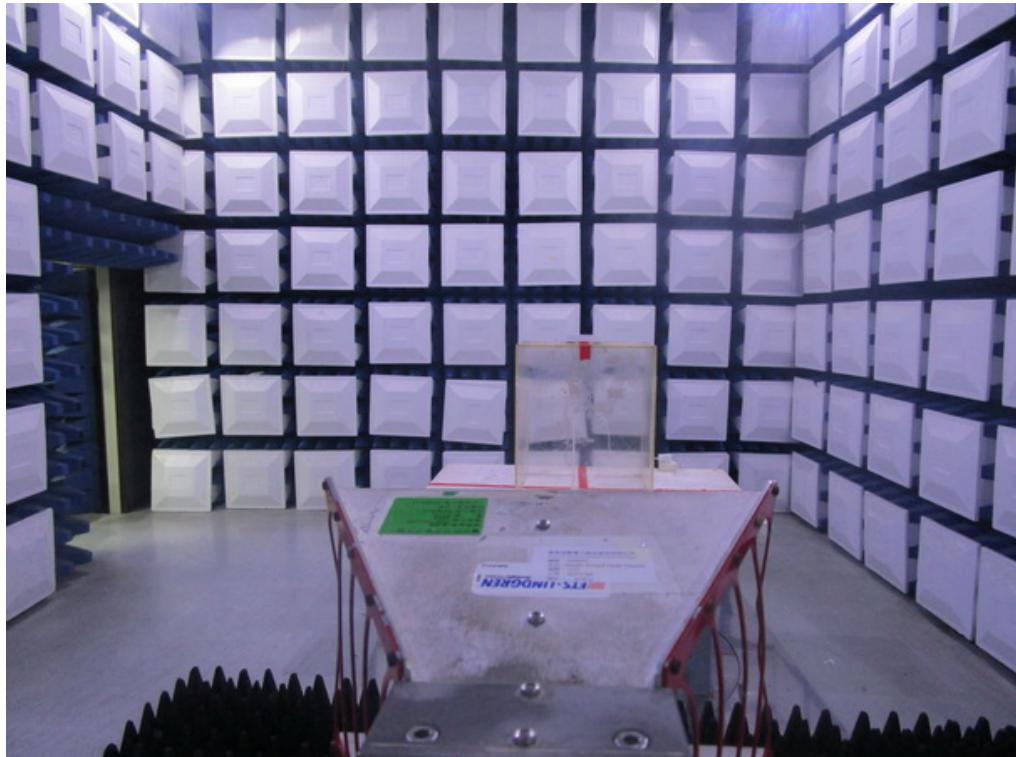
9KHz to 30MHz



Radiated Measurement Photos**30MHz to 1000MHz**

Radiated Measurement Photos

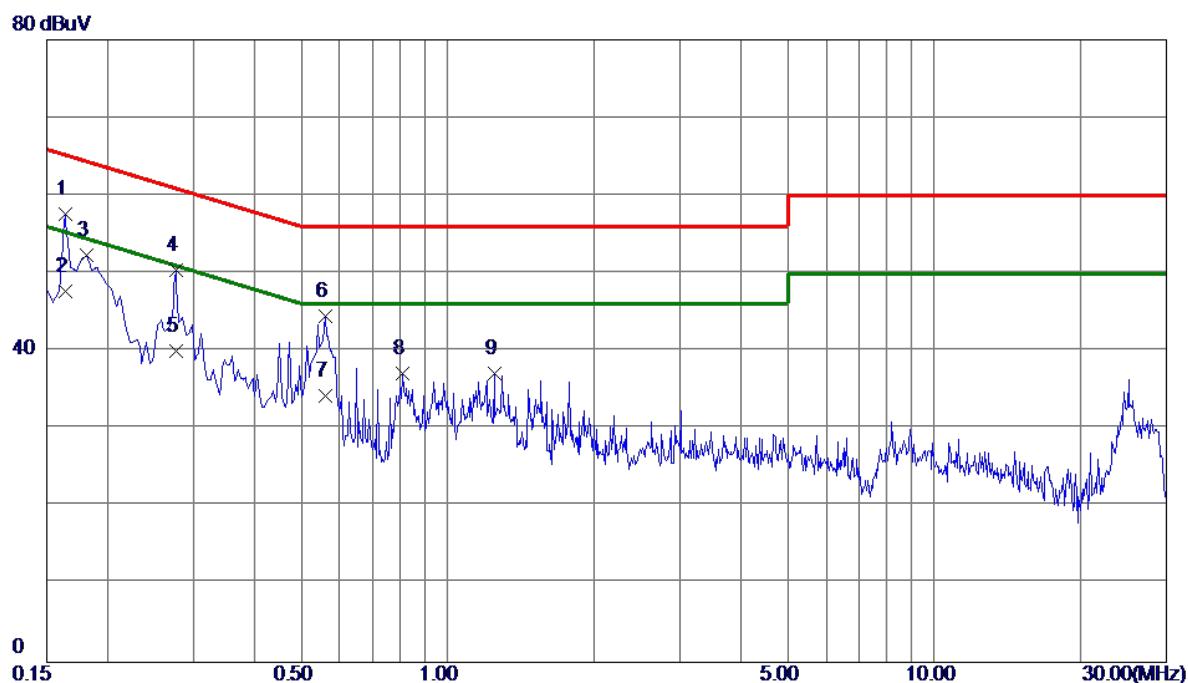
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : TX MODE

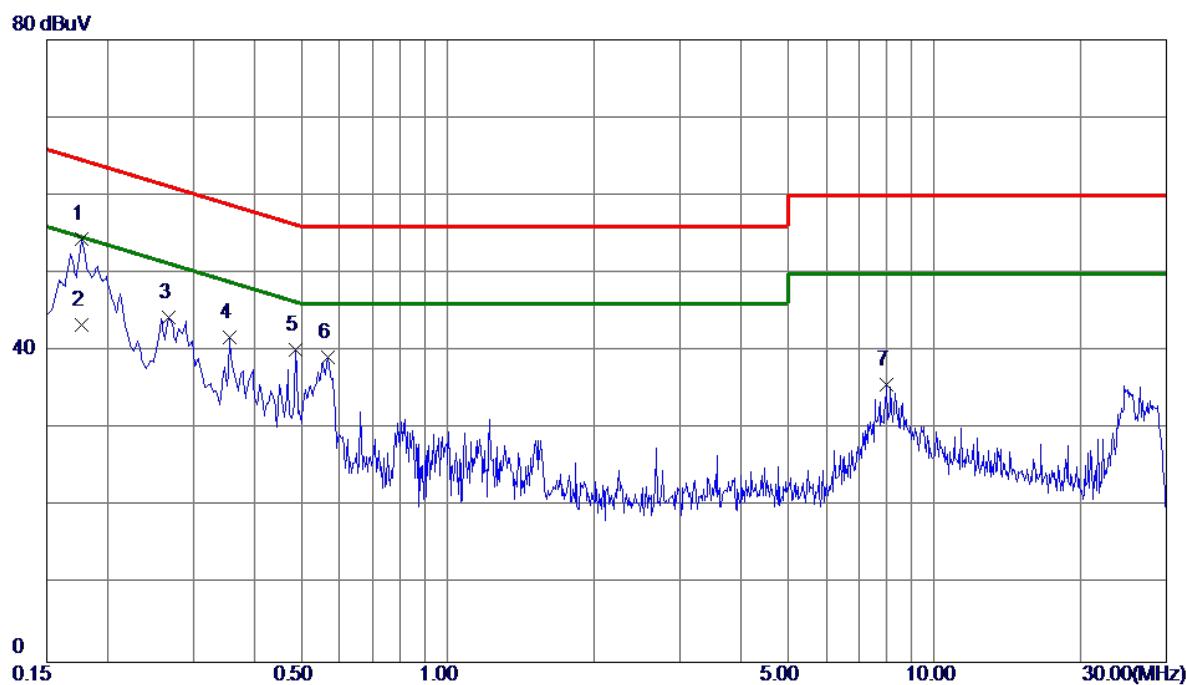
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector		Comment
							Detector	Comment	
1	0.1635	47.80	9.82	57.62	65.28	-7.66	Peak		
2 *	0.1635	37.90	9.82	47.72	55.28	-7.56	AVG		
3	0.1815	42.47	9.82	52.29	64.42	-12.13	Peak		
4	0.2760	40.59	9.82	50.41	60.94	-10.53	Peak		
5	0.2760	30.20	9.82	40.02	50.94	-10.92	AVG		
6	0.5595	34.67	9.81	44.48	56.00	-11.52	Peak		
7	0.5595	24.50	9.81	34.31	46.00	-11.69	AVG		
8	0.8070	27.22	9.91	37.13	56.00	-18.87	Peak		
9	1.2480	27.11	9.94	37.05	56.00	-18.95	Peak		

Test Mode : TX MODE

Neutral

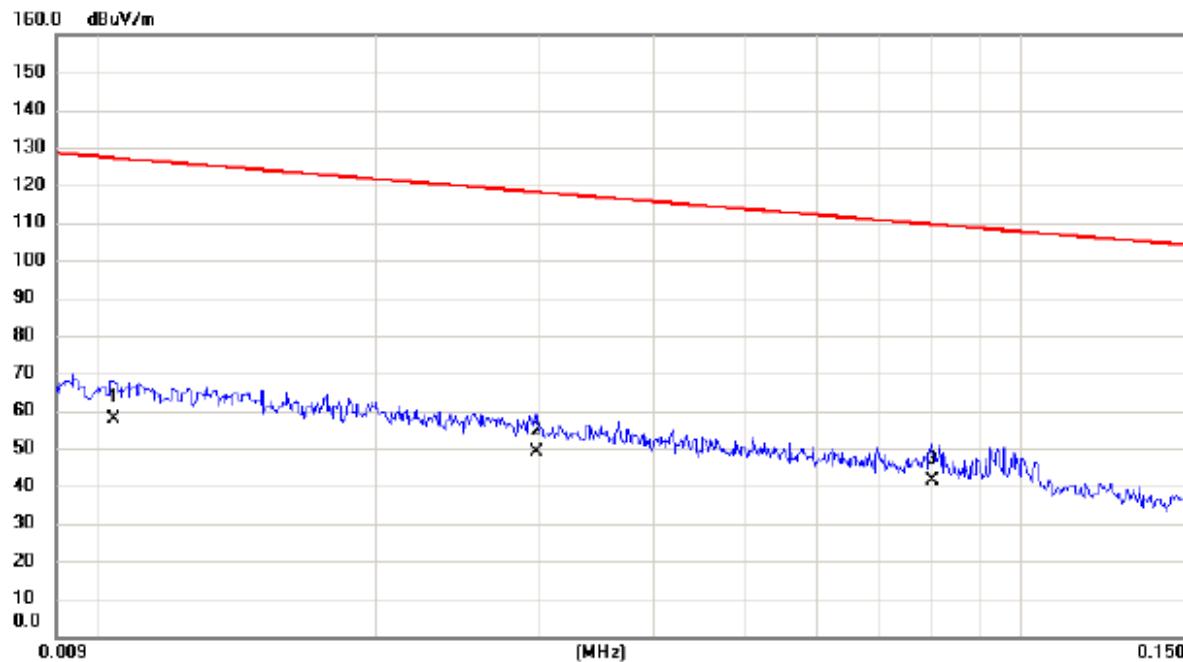


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1770	44.44	9.91	54.35	64.63	-10.28	Peak	
2	0.1770	33.51	9.91	43.42	54.63	-11.21	AVG	
3	0.2670	34.43	9.92	44.35	61.21	-16.86	Peak	
4	0.3570	31.81	9.95	41.76	58.80	-17.04	Peak	
5	0.4875	30.18	9.94	40.12	56.21	-16.09	Peak	
6	0.5685	29.20	9.97	39.17	56.00	-16.83	Peak	
7	7.9800	25.07	10.64	35.71	60.00	-24.29	Peak	

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

Test Mode: TX MODE

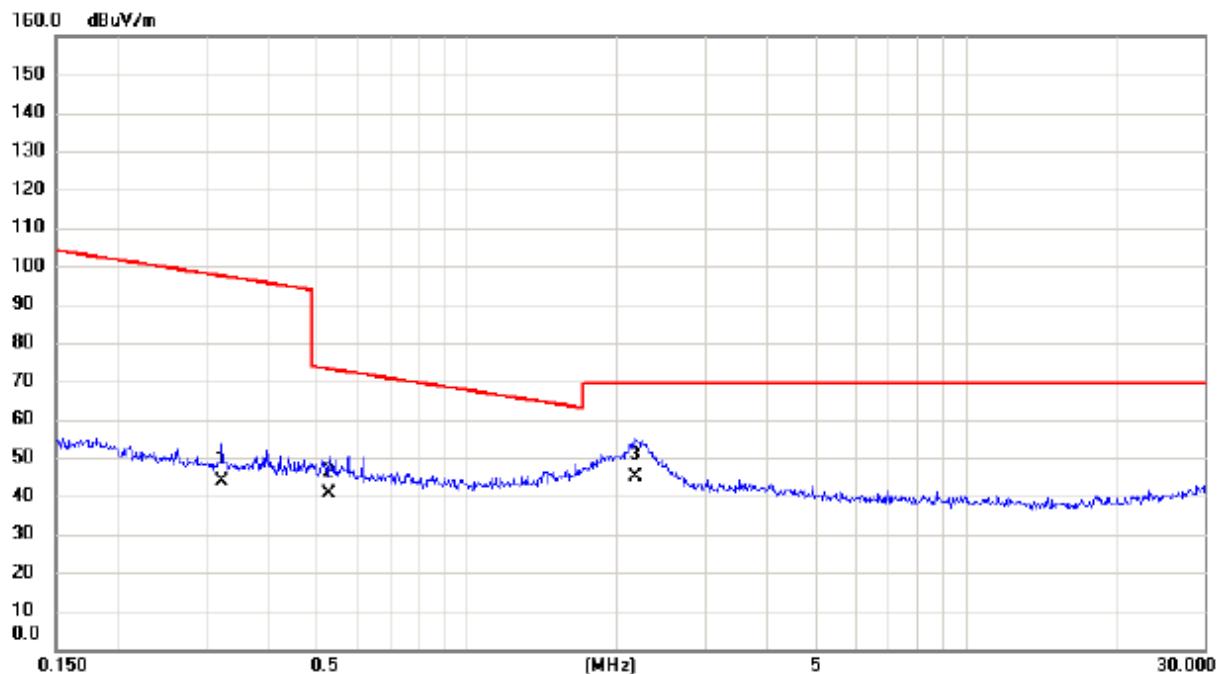
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1		0.0104	36.60	21.36	57.96	127.26	-69.30	AVG
2		0.0298	29.20	19.86	49.06	118.12	-69.06	AVG
3 *		0.0801	22.40	18.91	41.31	109.53	-68.22	AVG

Test Mode: TX MODE

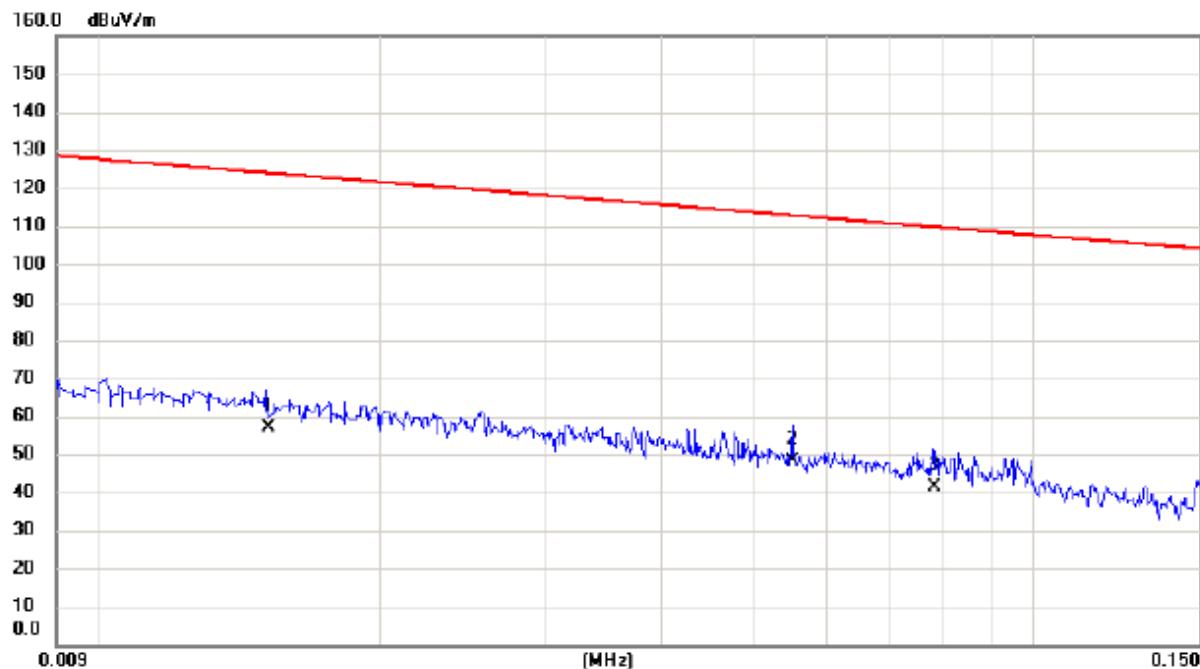
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3234	26.60	17.03	43.63	97.41	-53.78	AVG	
2		0.5293	23.80	16.96	40.76	73.13	-32.37	QP	
3 *		2.1783	27.90	17.00	44.90	69.54	-24.64	QP	

Test Mode: TX MODE

Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		0.0152	36.20	20.69	56.89	123.97	-67.08	AVG
2	*	0.0553	28.60	19.42	48.02	112.75	-64.73	AVG
3		0.0781	22.30	18.96	41.26	109.75	-68.49	AVG

Test Mode: TX MODE

Ant 90°

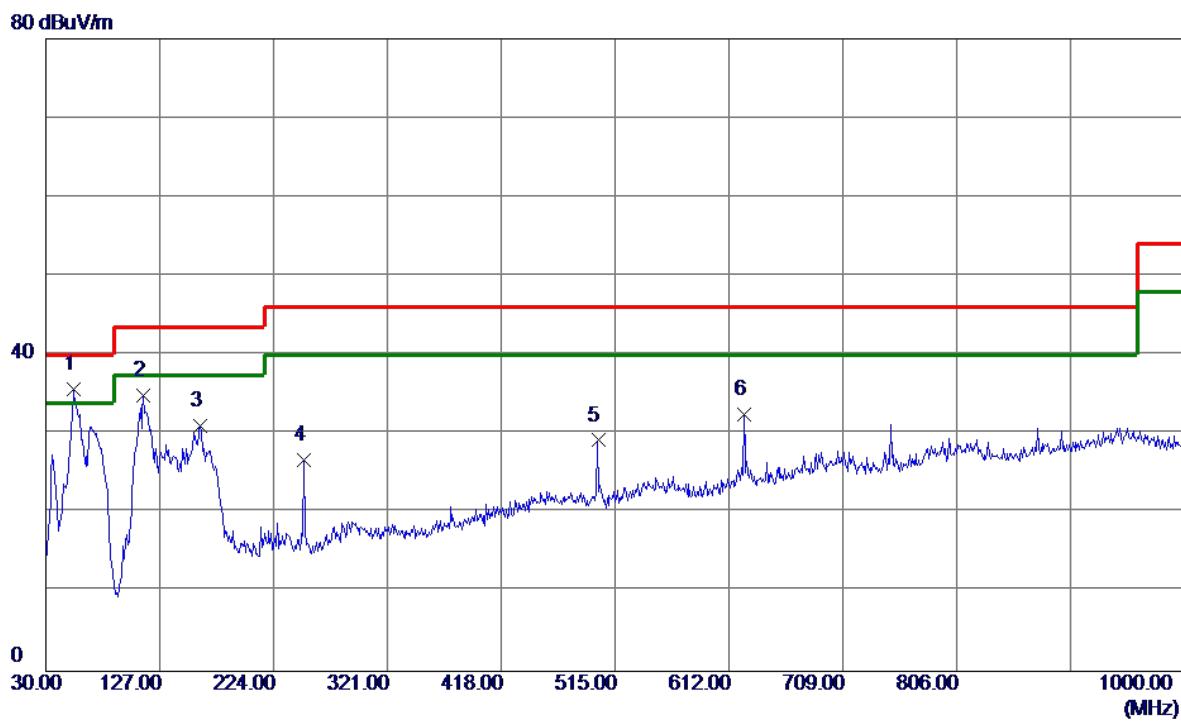


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1		0.3321	28.50	17.03	45.53	97.18	-51.65	AVG
2 *		0.8803	33.80	16.73	50.53	68.71	-18.18	QP
3		2.3090	27.90	16.93	44.83	69.54	-24.71	QP

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

Test Mode: TX B MODE CHANNEL 01

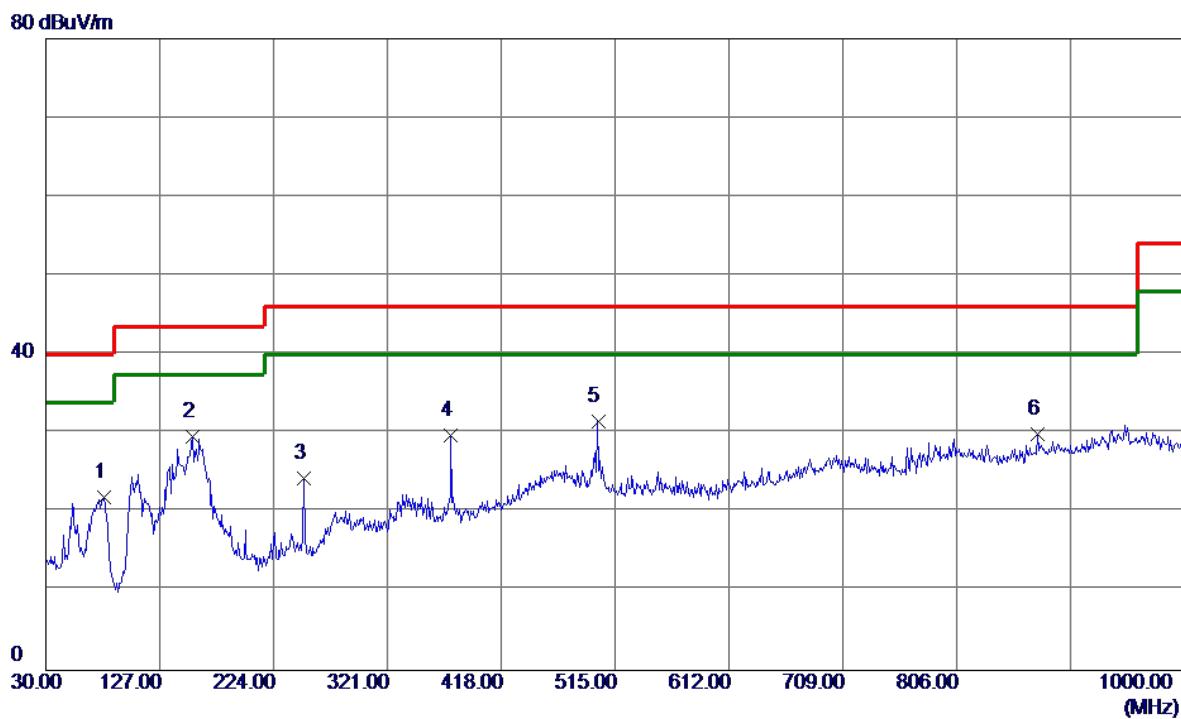
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	53.2800	50.56	-14.92	35.64	40.00	-4.36	Peak	
2	113.4200	50.56	-15.74	34.82	43.50	-8.68	Peak	
3	161.9200	41.74	-10.71	31.03	43.50	-12.47	Peak	
4	250.1900	41.04	-14.28	26.76	46.00	-19.24	Peak	
5	500.4500	37.70	-8.50	29.20	46.00	-16.80	Peak	
6	624.6100	38.23	-5.75	32.48	46.00	-13.52	Peak	

Test Mode: TX B MODE CHANNEL 01

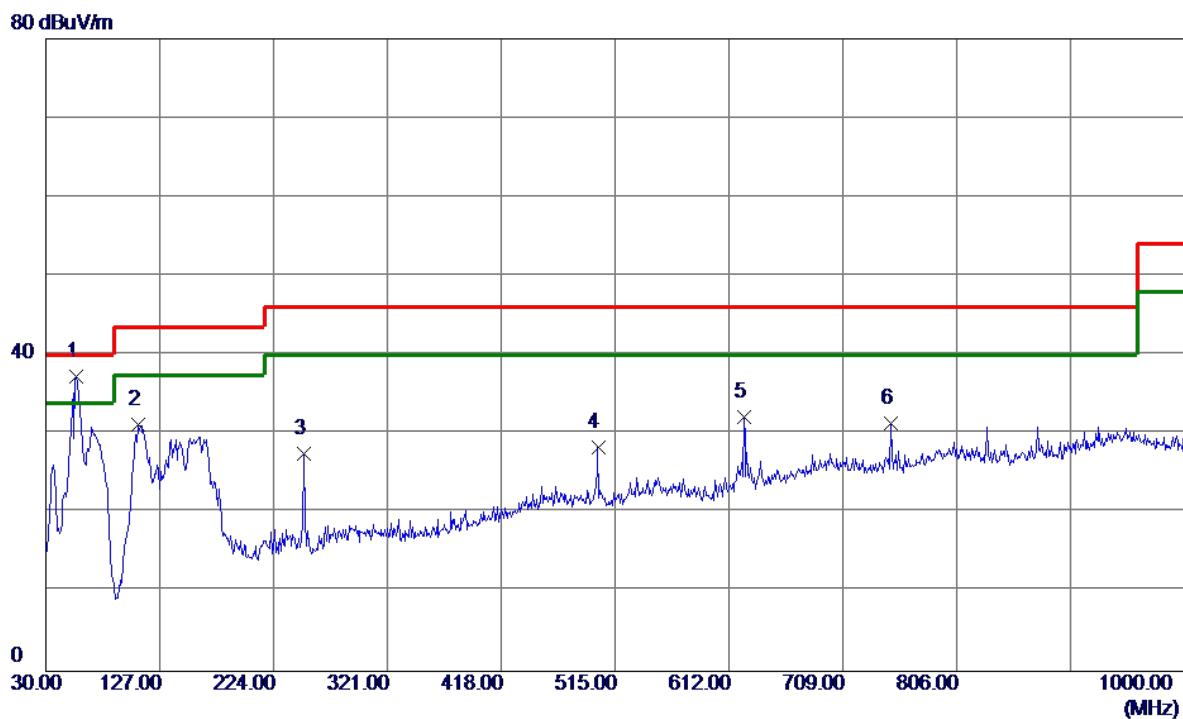
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	79.4700	40.42	-18.56	21.86	40.00	-18.14	Peak	
2 *	155.1300	40.57	-11.03	29.54	43.50	-13.96	Peak	
3	250.1900	38.65	-14.28	24.37	46.00	-21.63	Peak	
4	375.3200	40.03	-10.22	29.81	46.00	-16.19	Peak	
5	500.4500	40.00	-8.50	31.50	46.00	-14.50	Peak	
6	874.8700	31.11	-1.21	29.90	46.00	-16.10	Peak	

Test Mode: TX B MODE CHANNEL 06

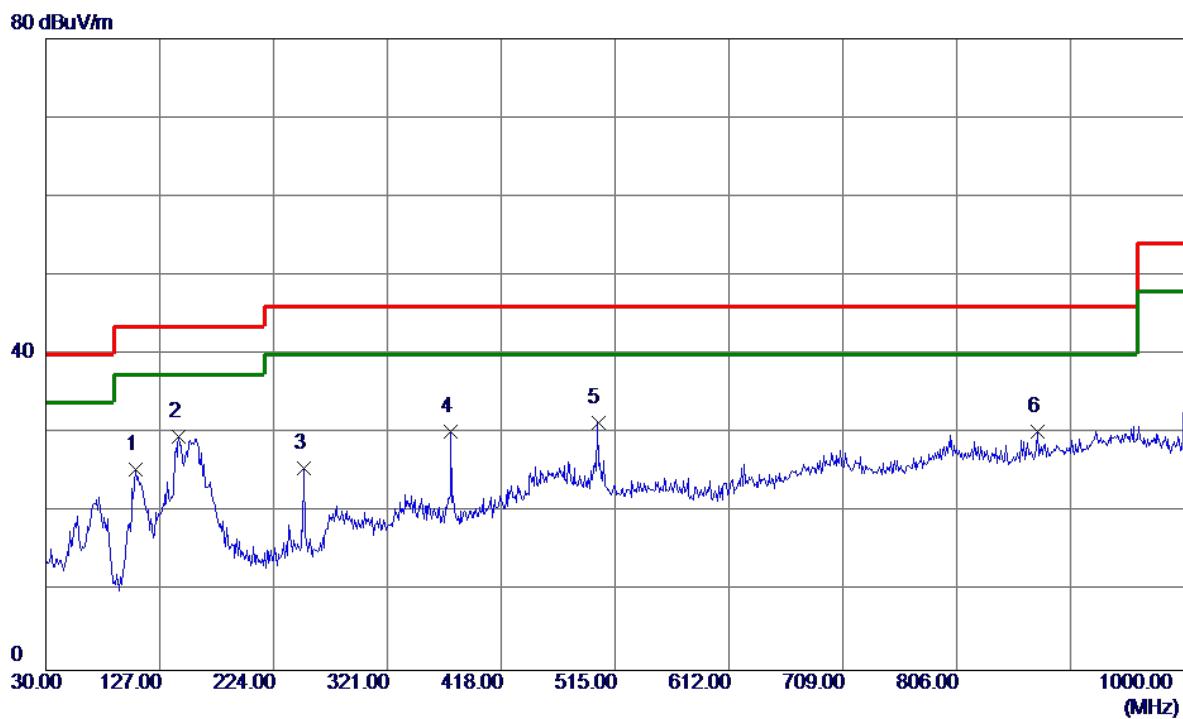
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	56.1900	52.37	-15.06	37.31	40.00	-2.69	Peak	
2	108.5700	47.84	-16.57	31.27	43.50	-12.23	Peak	
3	250.1900	41.79	-14.28	27.51	46.00	-18.49	Peak	
4	500.4500	36.80	-8.50	28.30	46.00	-17.70	Peak	
5	624.6100	37.90	-5.75	32.15	46.00	-13.85	Peak	
6	749.7400	35.35	-4.04	31.31	46.00	-14.69	Peak	

Test Mode: TX B MODE CHANNEL 06

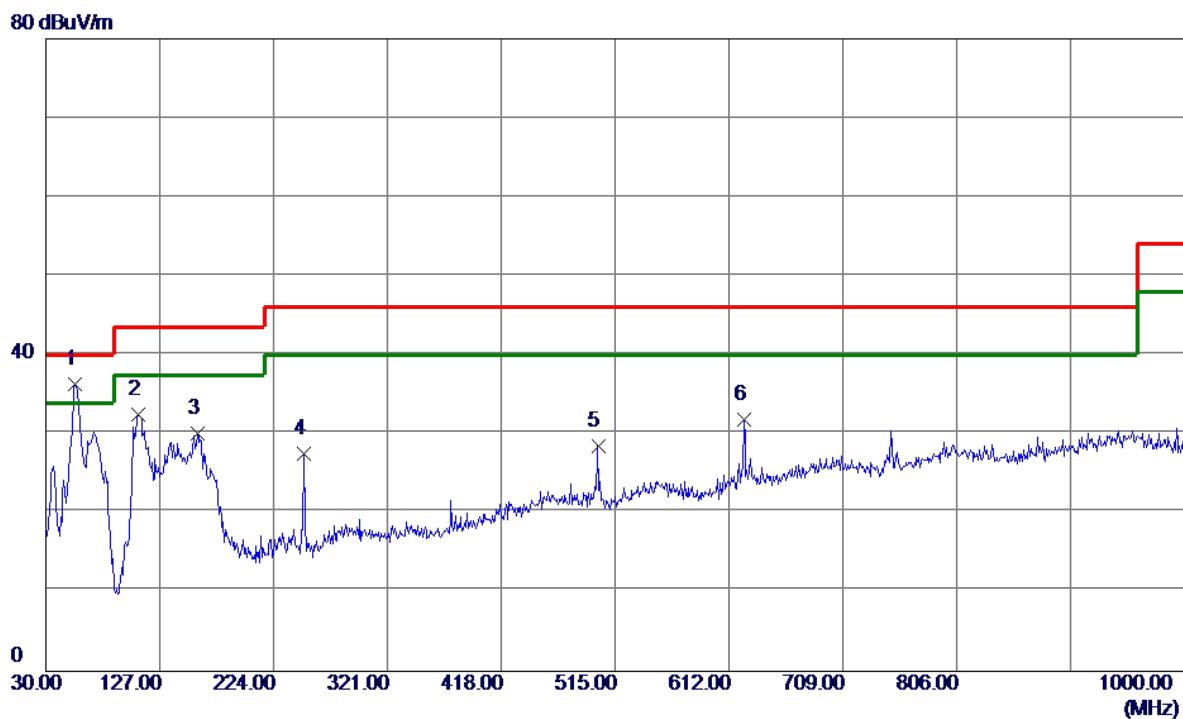
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	106.6300	42.34	-16.96	25.38	43.50	-18.12	Peak	
2 *	143.4900	41.49	-11.88	29.61	43.50	-13.89	Peak	
3	250.1900	39.83	-14.28	25.55	46.00	-20.45	Peak	
4	375.3200	40.50	-10.22	30.28	46.00	-15.72	Peak	
5	500.4500	39.79	-8.50	31.29	46.00	-14.71	Peak	
6	874.8700	31.45	-1.21	30.24	46.00	-15.76	Peak	

Test Mode: TX B MODE CHANNEL 11

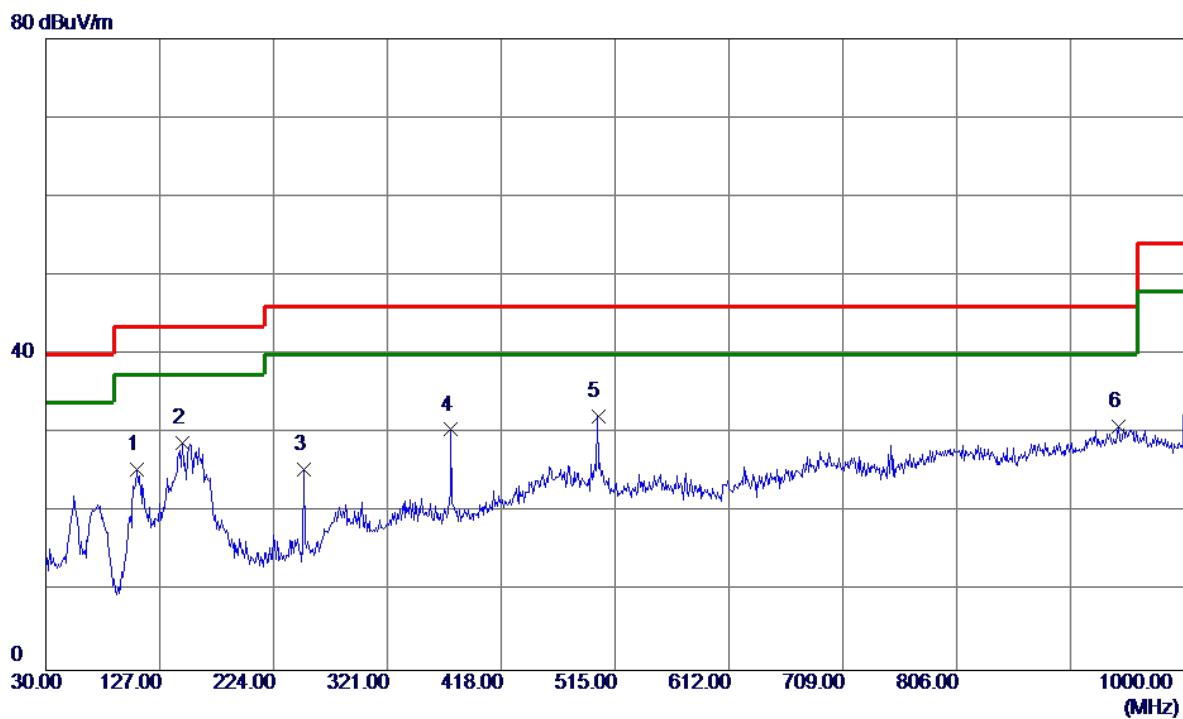
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	55.2200	51.33	-15.00	36.33	40.00	-3.67	Peak	
2	108.5700	49.12	-16.57	32.55	43.50	-10.95	Peak	
3	159.0100	40.71	-10.69	30.02	43.50	-13.48	Peak	
4	250.1900	41.84	-14.28	27.56	46.00	-18.44	Peak	
5	500.4500	36.96	-8.50	28.46	46.00	-17.54	Peak	
6	624.6100	37.57	-5.75	31.82	46.00	-14.18	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal



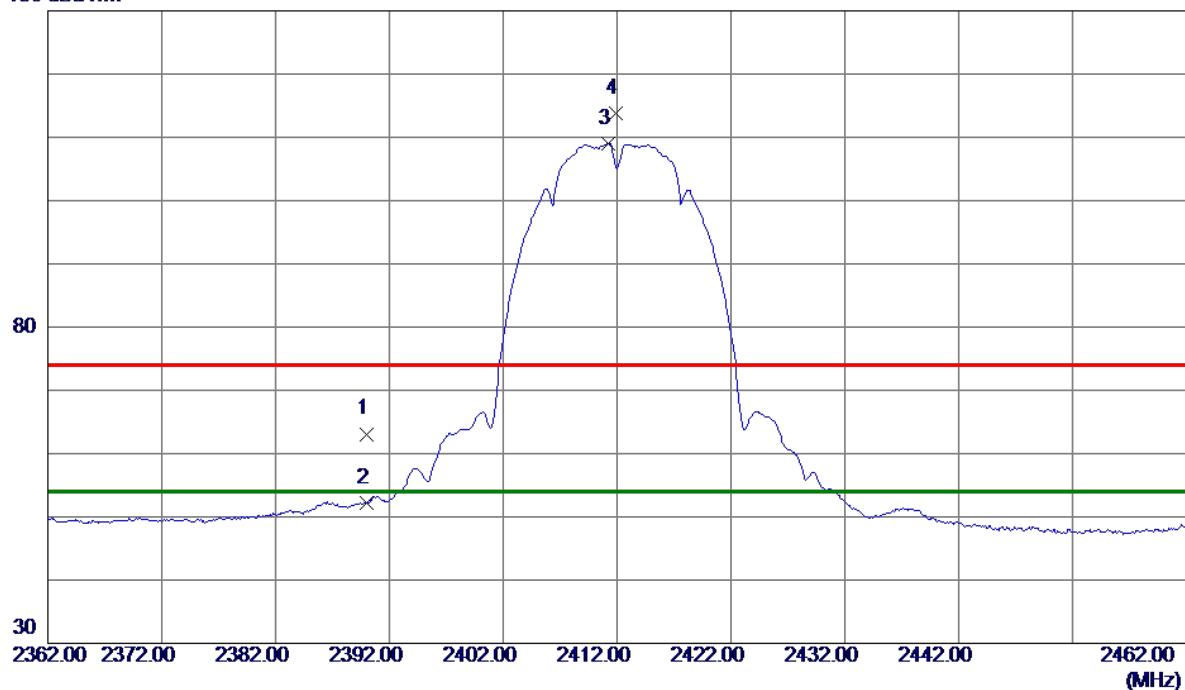
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	107.6000	42.19	-16.76	25.43	43.50	-18.07	Peak	
2	146.4000	40.55	-11.71	28.84	43.50	-14.66	Peak	
3	250.1900	39.79	-14.28	25.51	46.00	-20.49	Peak	
4	375.3200	40.70	-10.22	30.48	46.00	-15.52	Peak	
5 *	500.4500	40.65	-8.50	32.15	46.00	-13.85	Peak	
6	943.7400	29.75	1.16	30.91	46.00	-15.09	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

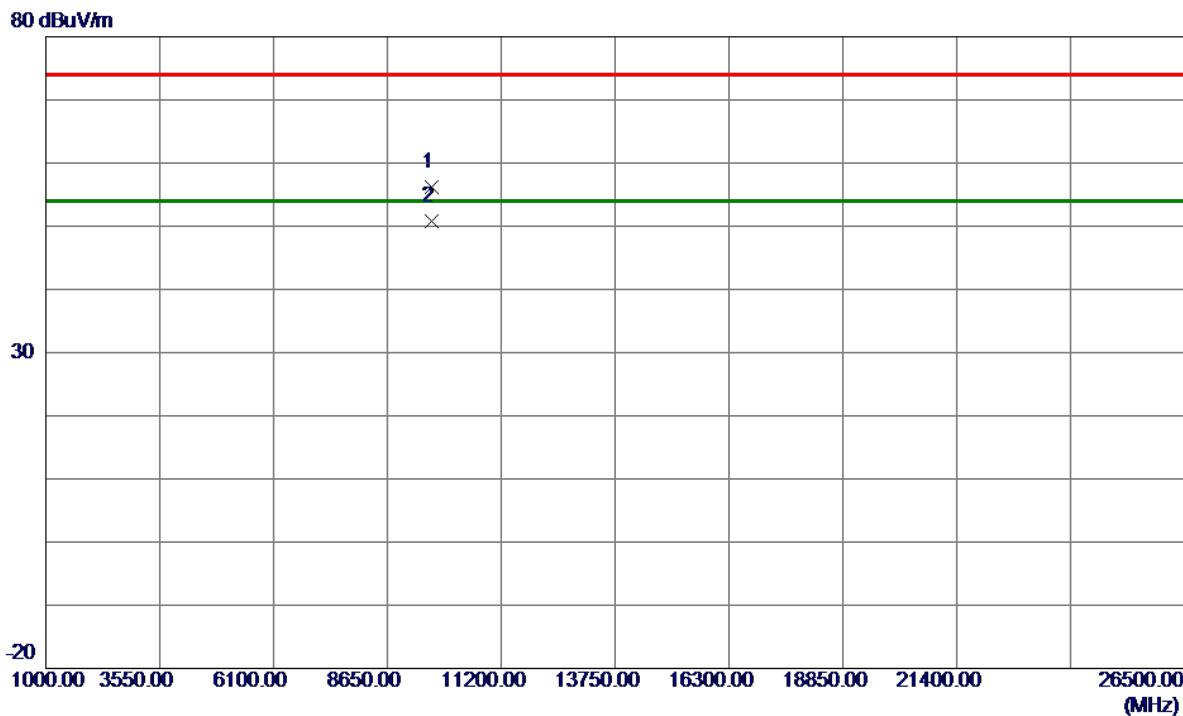
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.000	51.78	11.32	63.10	74.00	-10.90	Peak	
2	2390.000	40.83	11.32	52.15	54.00	-1.85	AVG	
3 *	2411.200	97.74	11.33	109.07	54.00	55.07	AVG	No Limit
4	2411.900	102.50	11.33	113.83	74.00	39.83	Peak	No Limit

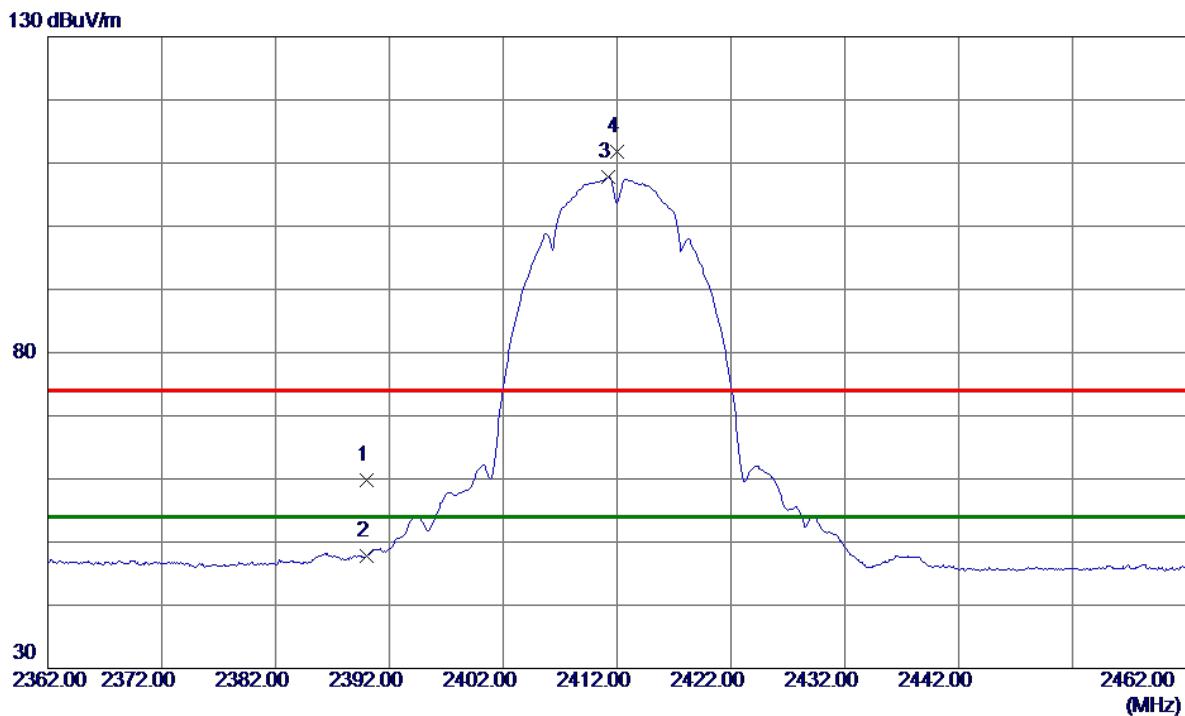
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Vertical



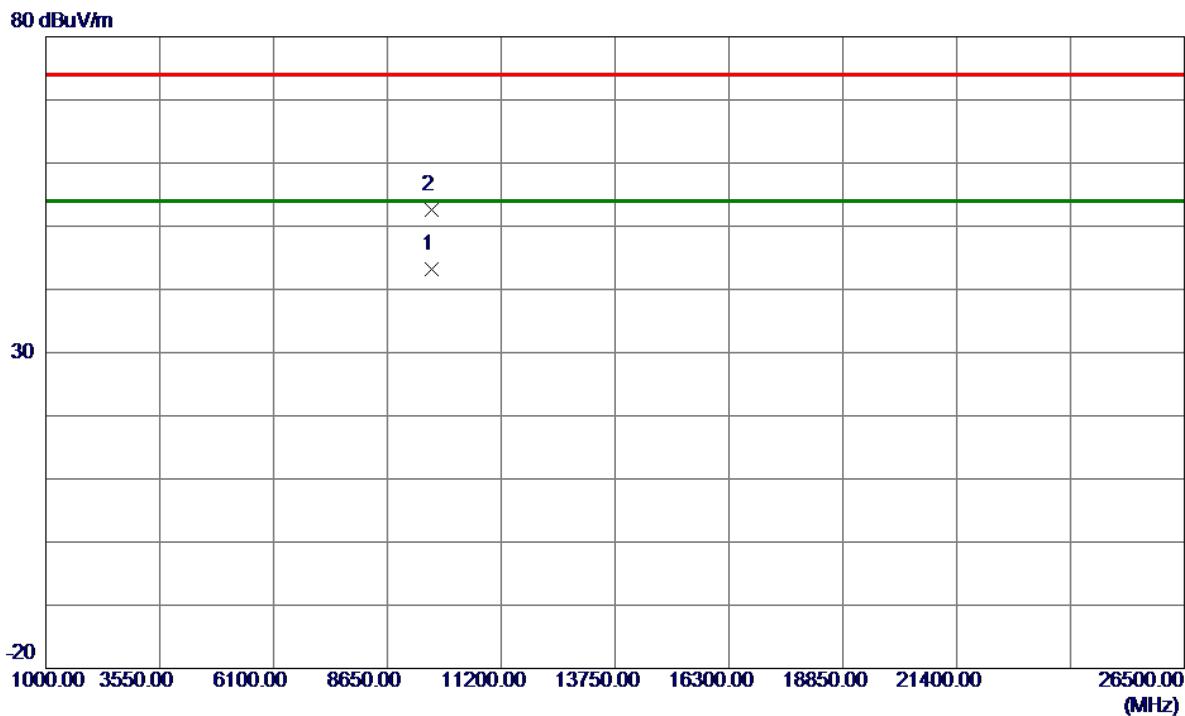
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.8550	36.81	19.45	56.26	74.00	-17.74	Peak	
2 *	9648.0250	31.37	19.46	50.83	54.00	-3.17	AVG	

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	2390.000	48.48	11.32	59.80	74.00	-14.20	Peak	
2	2390.000	36.47	11.32	47.79	54.00	-6.21	AVG	
3 *	2411.200	96.42	11.33	107.75	54.00	53.75	AVG	No Limit
4	2412.000	100.42	11.33	111.75	74.00	37.75	Peak	No Limit

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

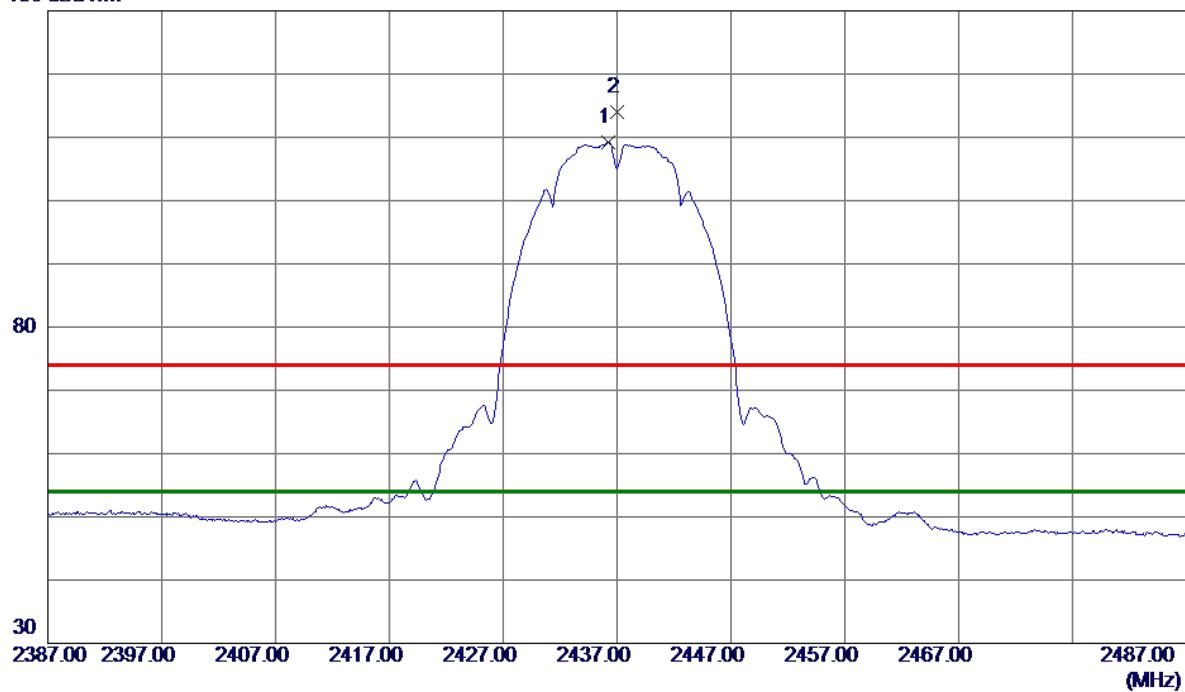
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9647.9600	23.78	19.46	43.24	54.00	-10.76	AVG	
2	9648.5350	33.21	19.46	52.67	74.00	-21.33	Peak	

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

Vertical

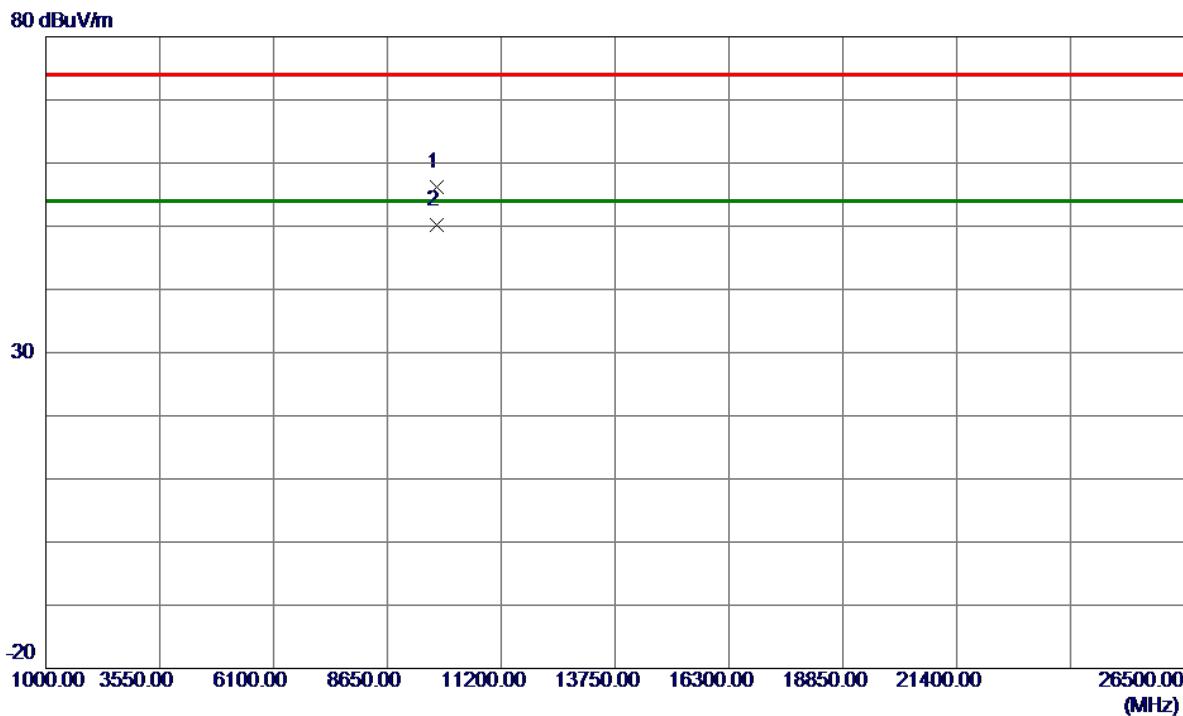
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	97.84	11.33	109.17	54.00	55.17	AVG	No Limit
2	2437.0000	102.70	11.33	114.03	74.00	40.03	Peak	No Limit

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

Vertical



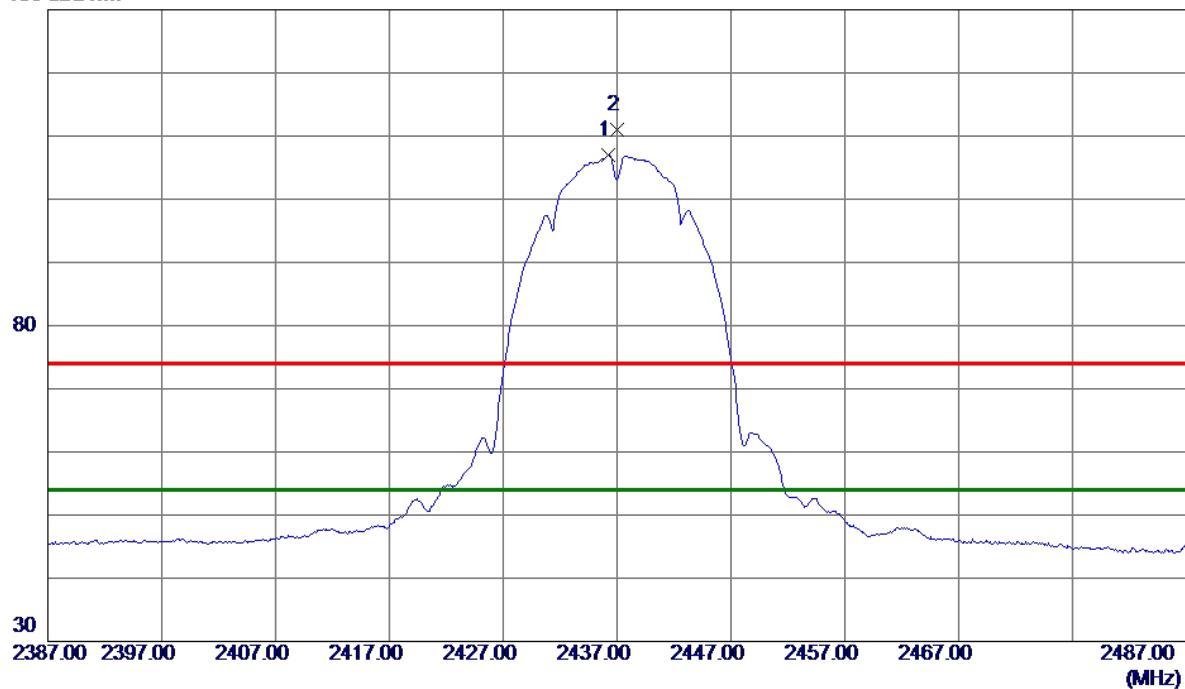
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.8600	36.64	19.55	56.19	74.00	-17.81	Peak	
2 *	9747.9250	30.71	19.55	50.26	54.00	-3.74	AVG	

Orthogonal Axis : X

Test Mode : TX B MODE 2437MHz

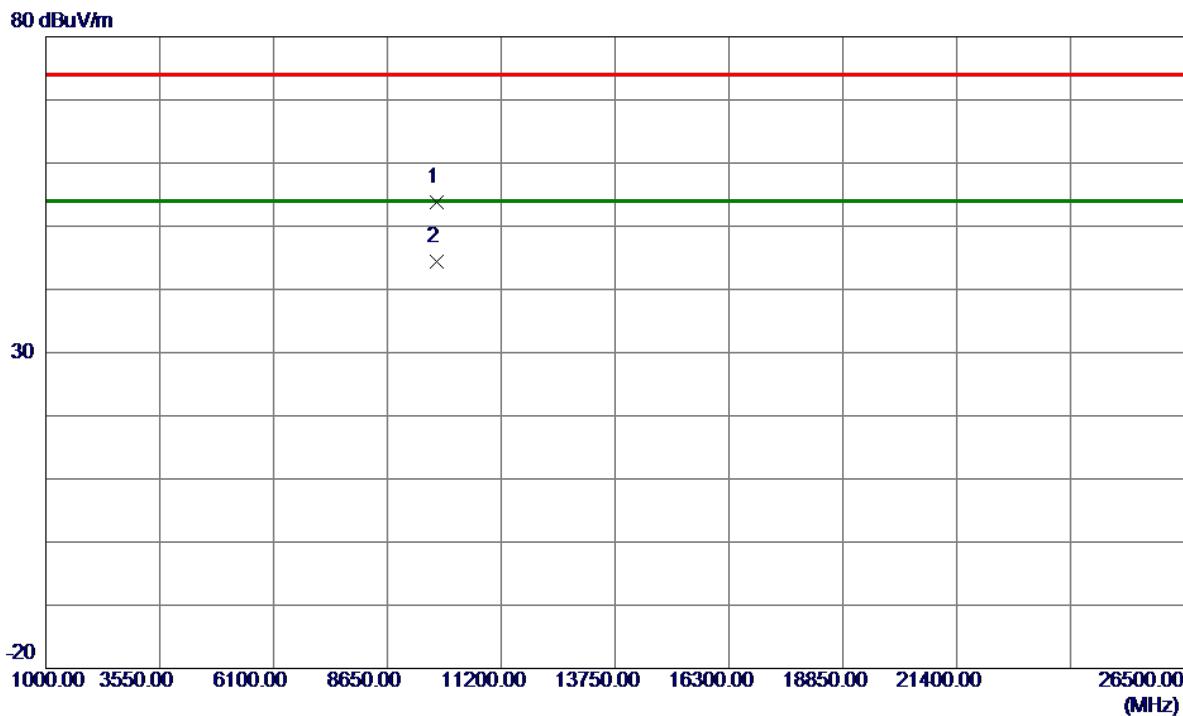
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	95.60	11.33	106.93	54.00	52.93	AVG	No Limit
2	2437.0000	99.60	11.33	110.93	74.00	36.93	Peak	No Limit

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

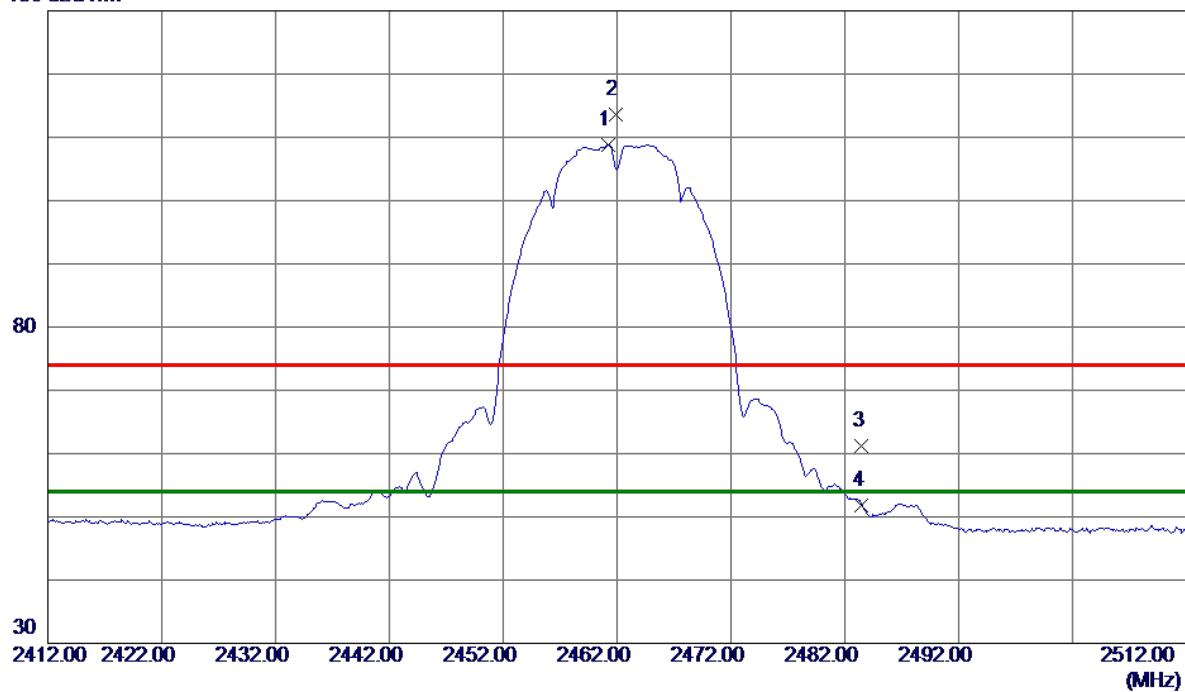
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.5599	34.19	19.55	53.74	74.00	-20.26	Peak	
2 *	9747.7800	24.78	19.55	44.33	54.00	-9.67	AVG	

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

Vertical

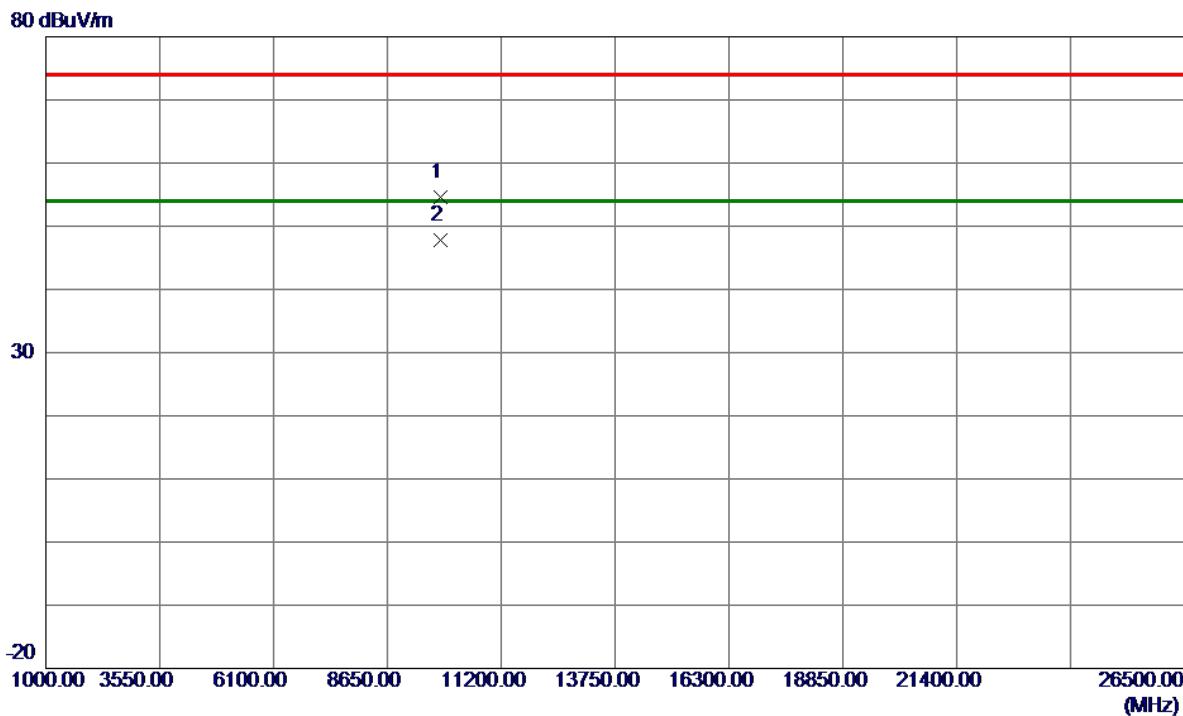
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin dB	Detector	Comment
1 *	2461.2000	97.50	11.34	108.84	54.00	54.84	AVG	No Limit
2	2461.9000	102.24	11.34	113.58	74.00	39.58	Peak	No Limit
3	2483.5000	49.85	11.35	61.20	74.00	-12.80	Peak	
4	2483.5000	40.44	11.35	51.79	54.00	-2.21	AVG	

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

Vertical

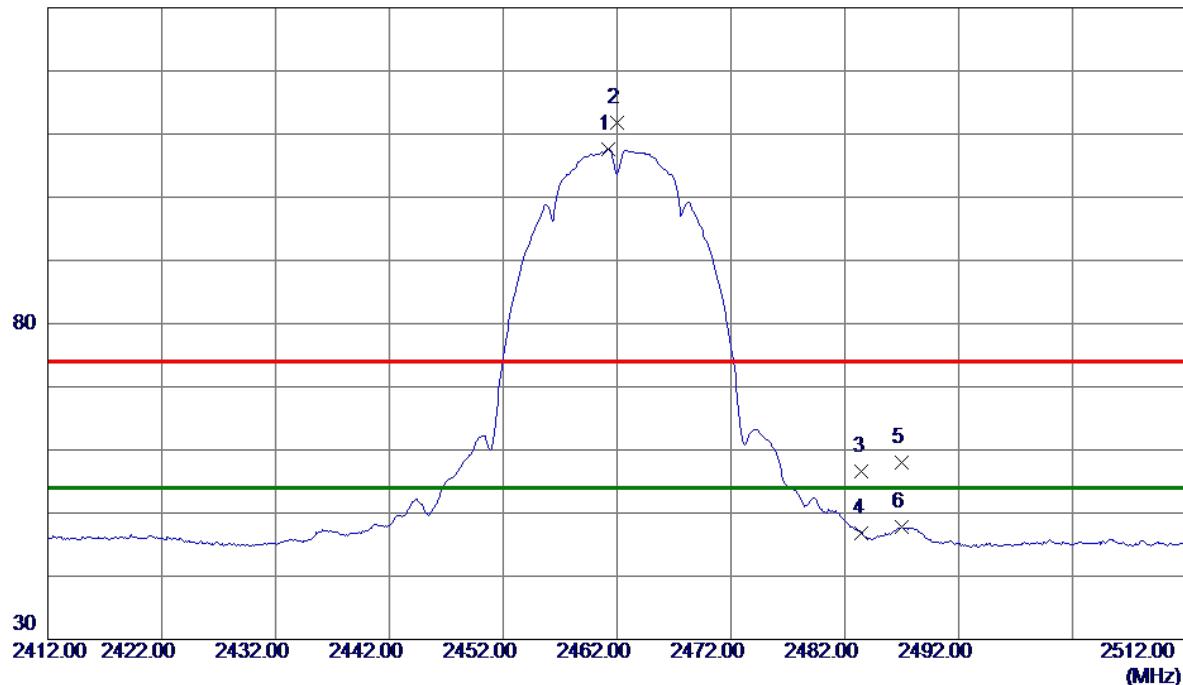


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.8350	34.86	19.65	54.51	74.00	-19.49	Peak	
2 *	9847.9450	28.22	19.65	47.87	54.00	-6.13	AVG	

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

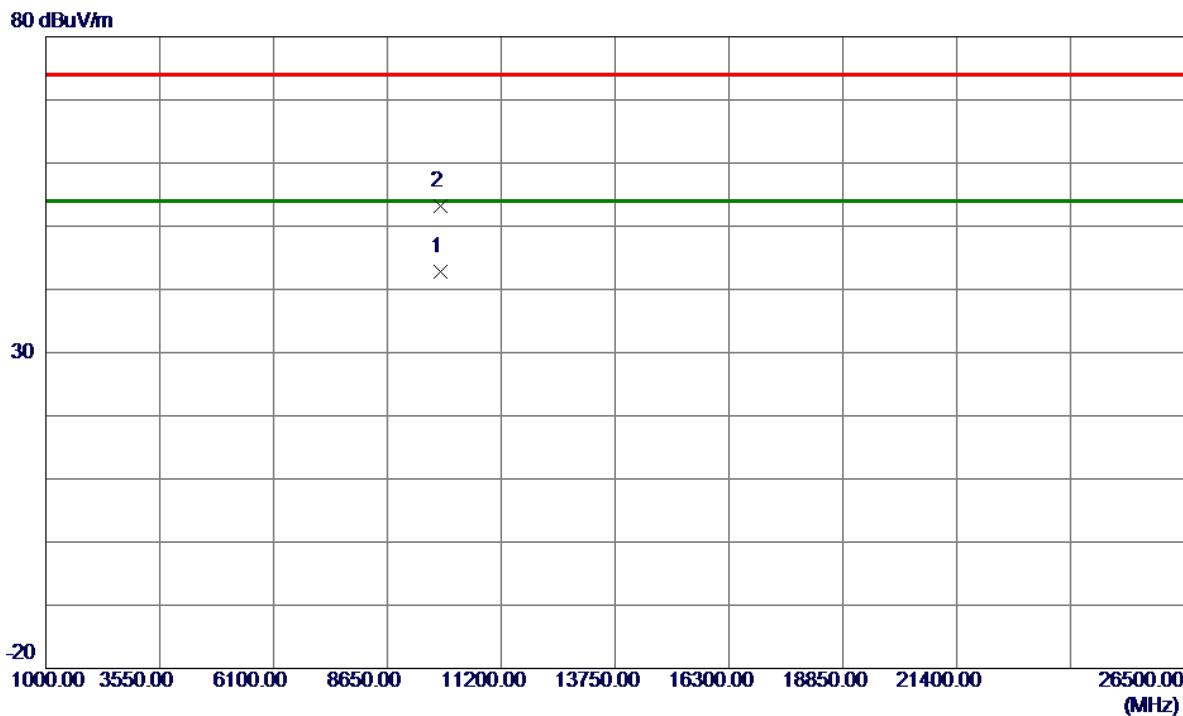
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2000	96.29	11.34	107.63	54.00	53.63	AVG	No Limit
2	2462.0000	100.45	11.34	111.79	74.00	37.79	Peak	No Limit
3	2483.5000	45.28	11.35	56.63	74.00	-17.37	Peak	
4	2483.5000	35.39	11.35	46.74	54.00	-7.26	AVG	
5	2487.0000	46.58	11.35	57.93	74.00	-16.07	Peak	
6	2487.0000	36.39	11.35	47.74	54.00	-6.26	AVG	

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

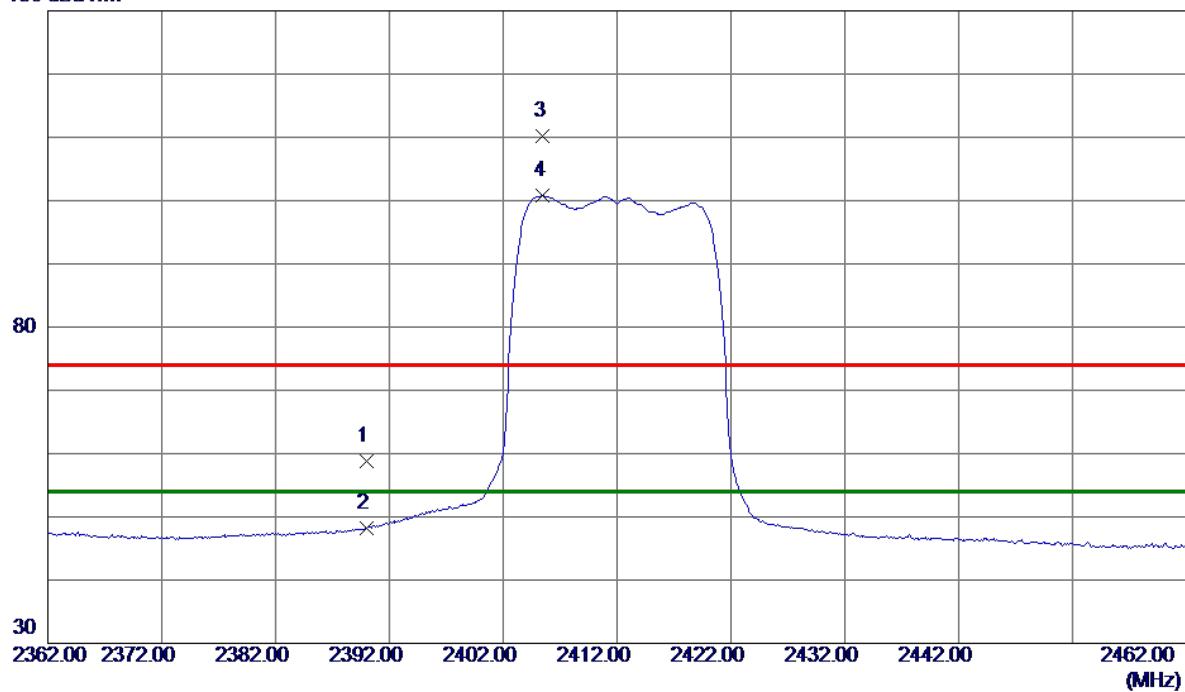
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.8600	23.10	19.65	42.75	54.00	-11.25	AVG	
2	9847.8750	33.55	19.65	53.20	74.00	-20.80	Peak	

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

Vertical

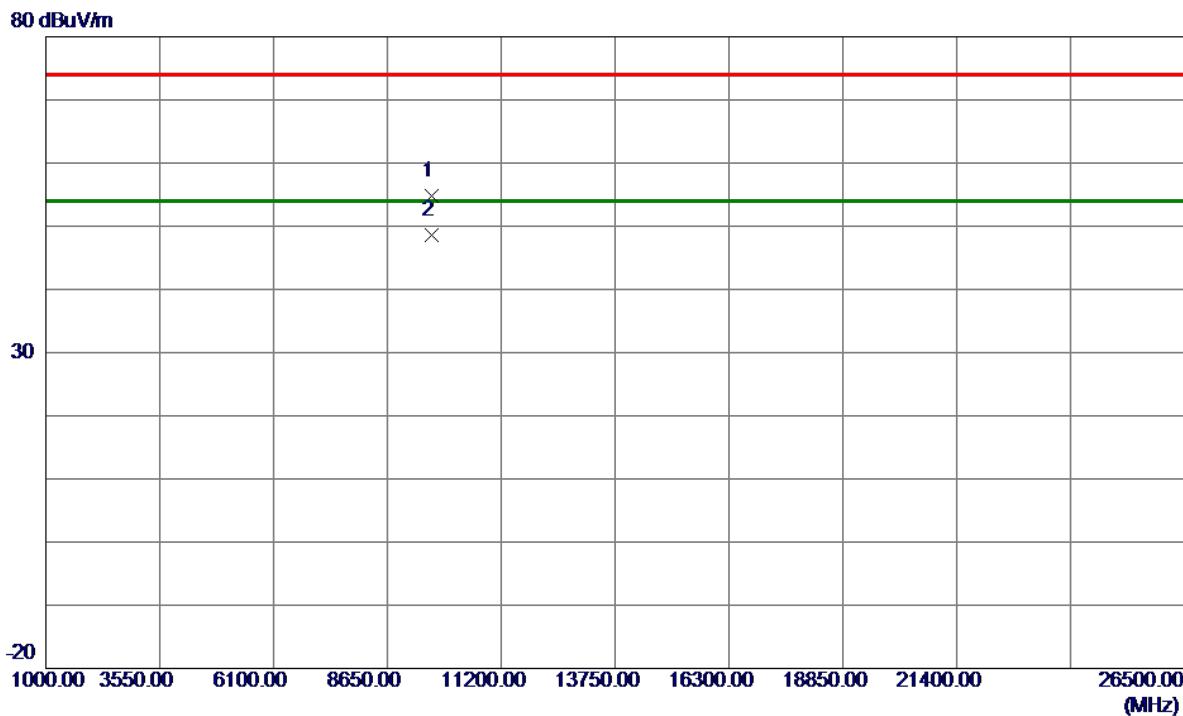
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.000	47.48	11.32	58.80	74.00	-15.20	Peak	
2	2390.000	36.86	11.32	48.18	54.00	-5.82	AVG	
3	2405.500	98.90	11.32	110.22	74.00	36.22	Peak	No Limit
4 *	2405.500	89.44	11.32	100.76	54.00	46.76	AVG	No Limit

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

Vertical

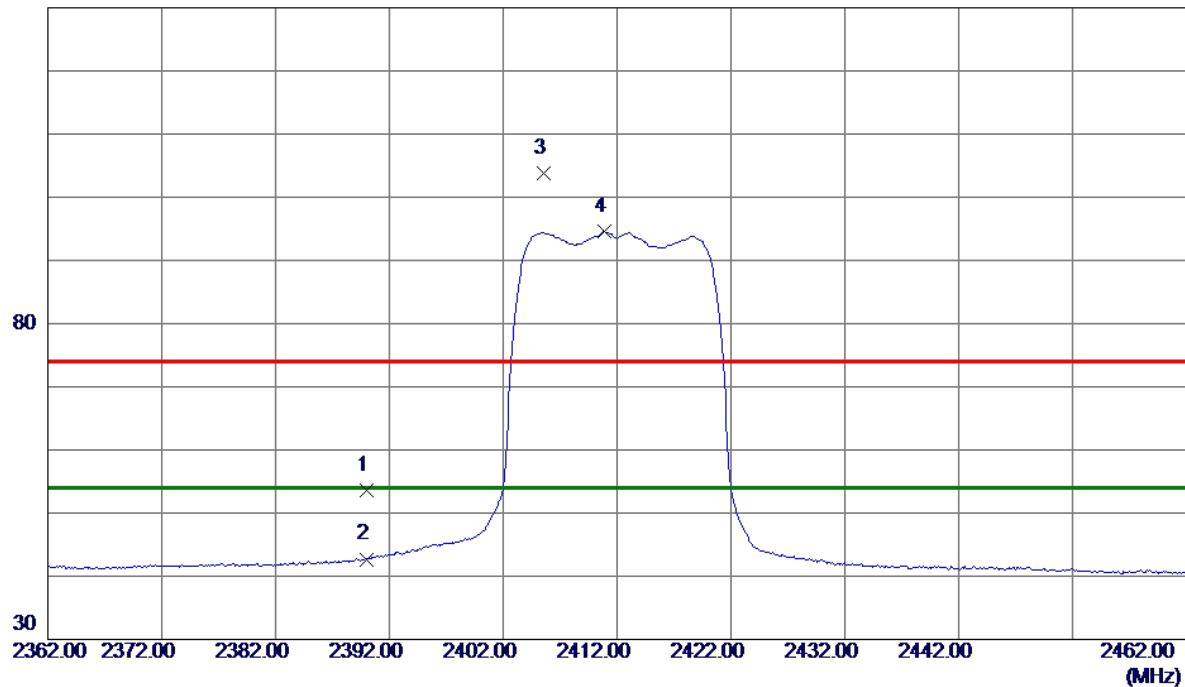


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.9000	35.26	19.45	54.71	74.00	-19.29	Peak	
2 *	9647.9700	29.16	19.46	48.62	54.00	-5.38	AVG	

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

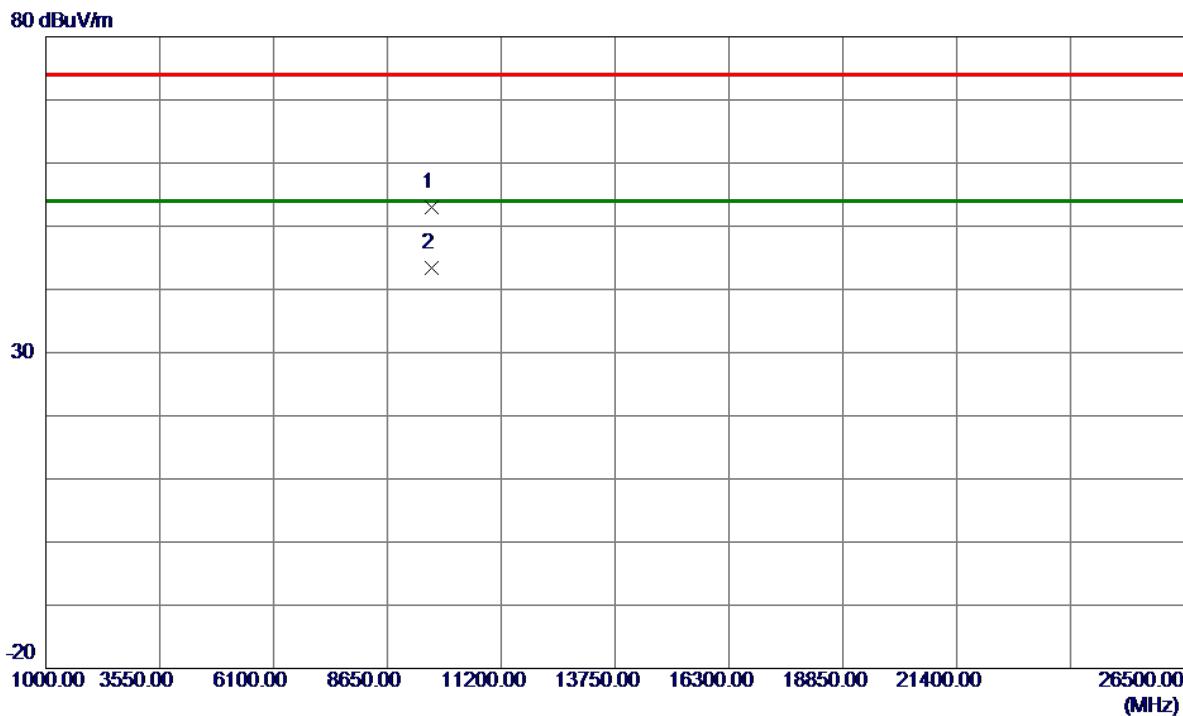
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.30	11.32	53.62	74.00	-20.38	Peak	
2	2390.0000	31.38	11.32	42.70	54.00	-11.30	AVG	
3	2405.6000	92.56	11.32	103.88	74.00	29.88	Peak	No Limit
4 *	2410.9000	83.19	11.32	94.51	54.00	40.51	AVG	No Limit

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

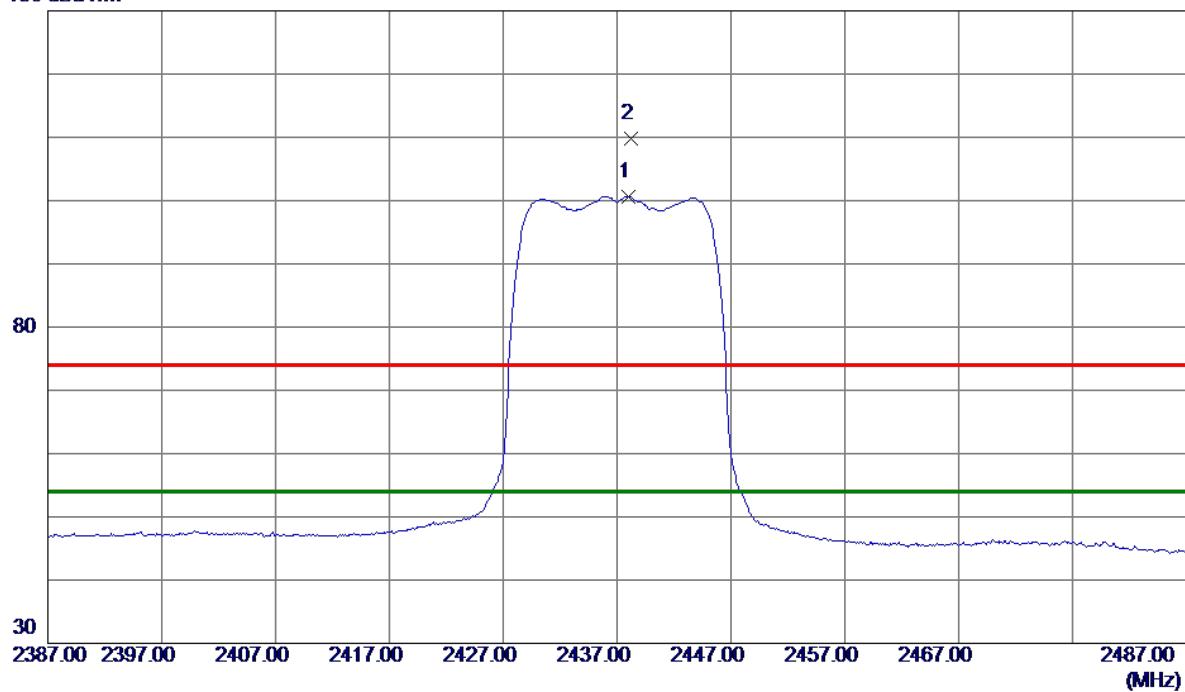
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.8800	33.58	19.45	53.03	74.00	-20.97	Peak	
2 *	9647.9300	23.91	19.45	43.36	54.00	-10.64	AVG	

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

Vertical

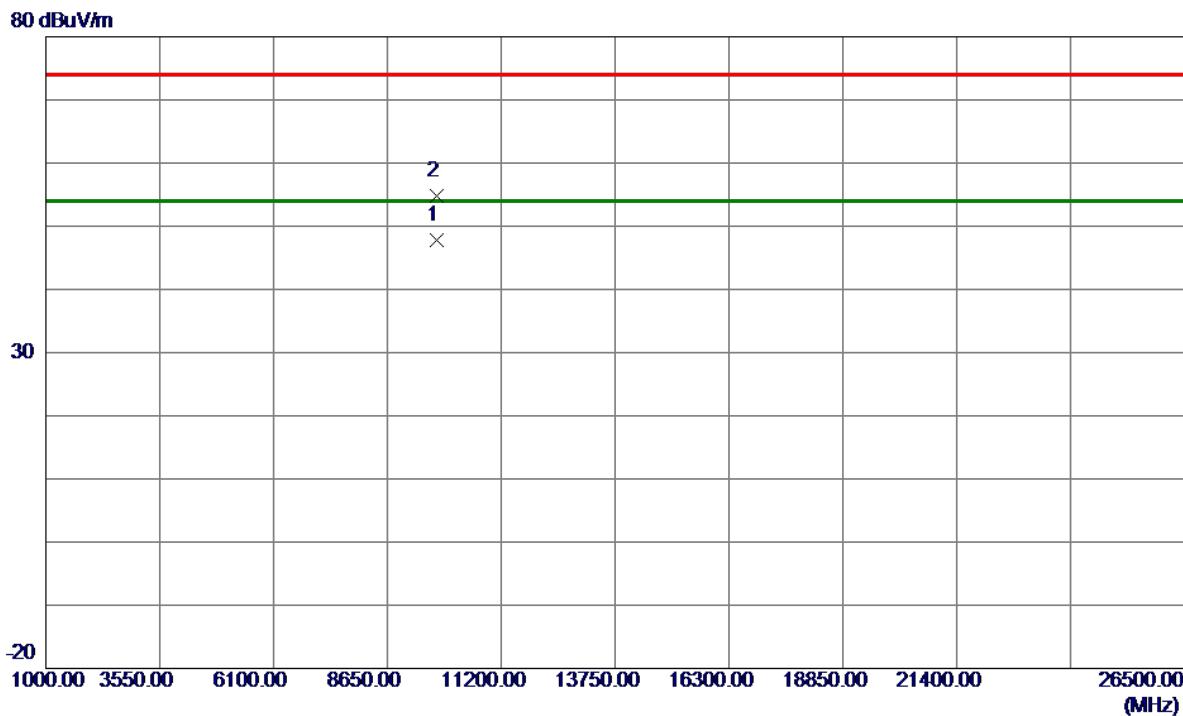
130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2438. 0000	89. 35	11. 33	100. 68	54. 00	46. 68	AVG	No Limit
2	2438. 2000	98. 53	11. 33	109. 86	74. 00	35. 86	Peak	No Limit

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

Vertical



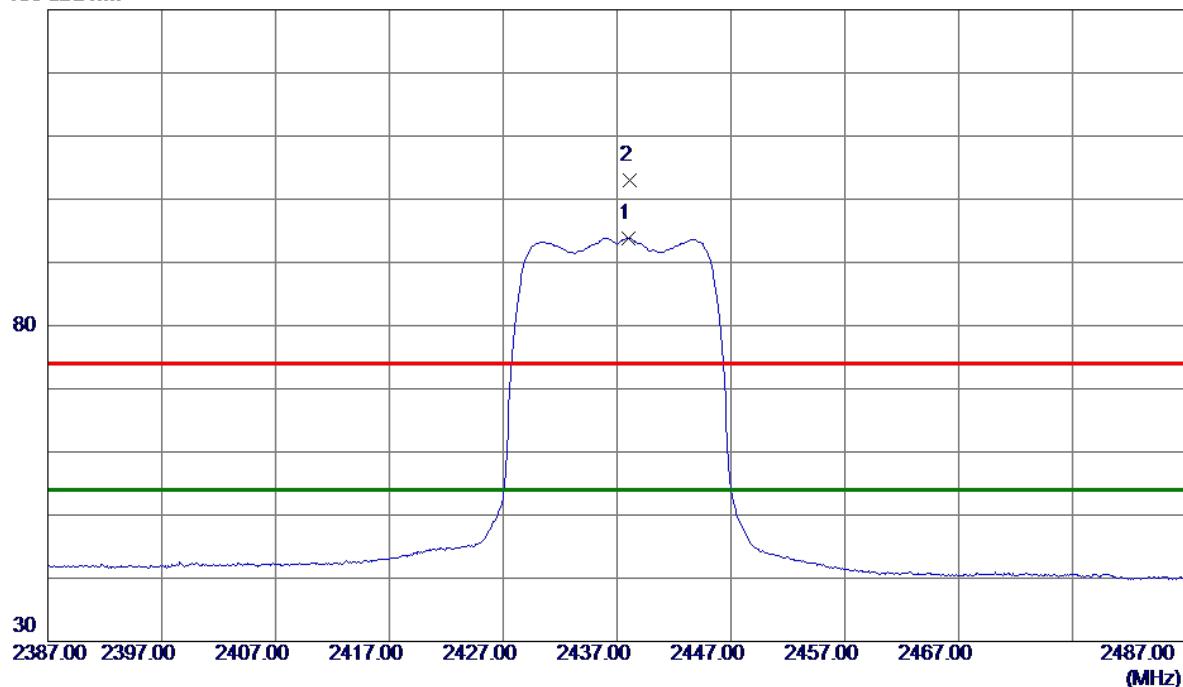
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9100	28.34	19.55	47.89	54.00	-6.11	AVG	
2	9748.2200	35.17	19.55	54.72	74.00	-19.28	Peak	

Orthogonal Axis : X

Test Mode : TX G MODE 2437MHz

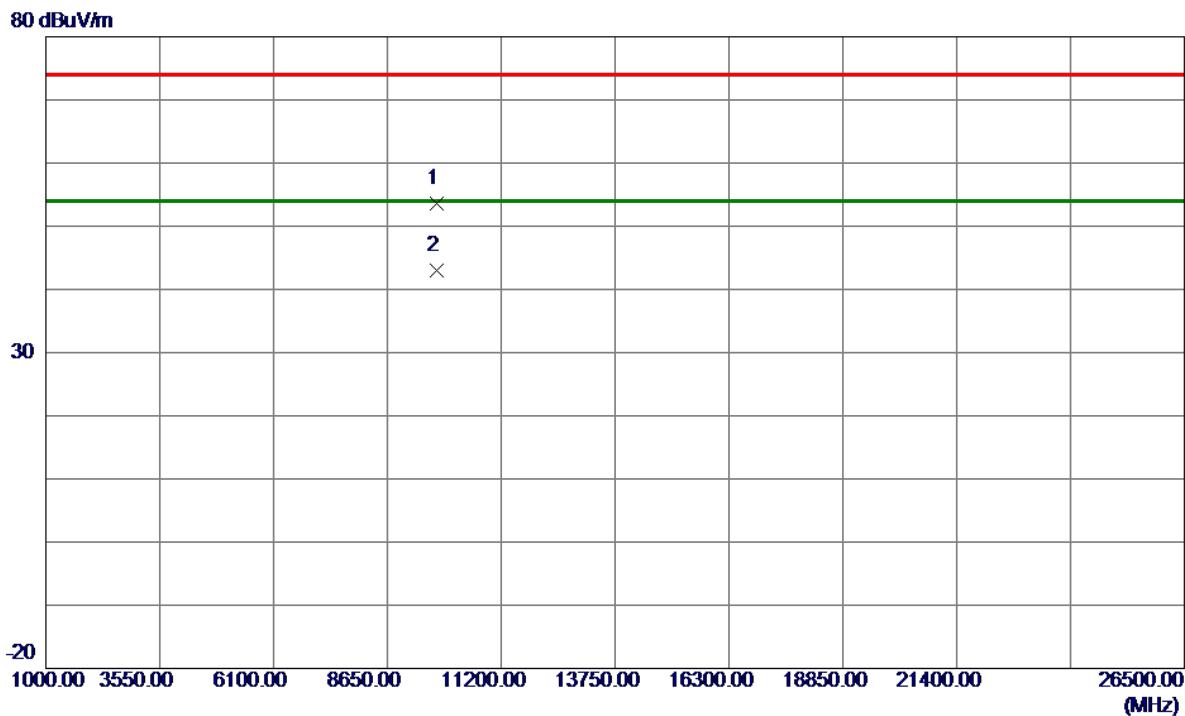
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438. 0000	82. 56	11. 33	93. 89	54. 00	39. 89	AVG	No Limit
2	2438. 1000	91. 74	11. 33	103. 07	74. 00	29. 07	Peak	No Limit

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

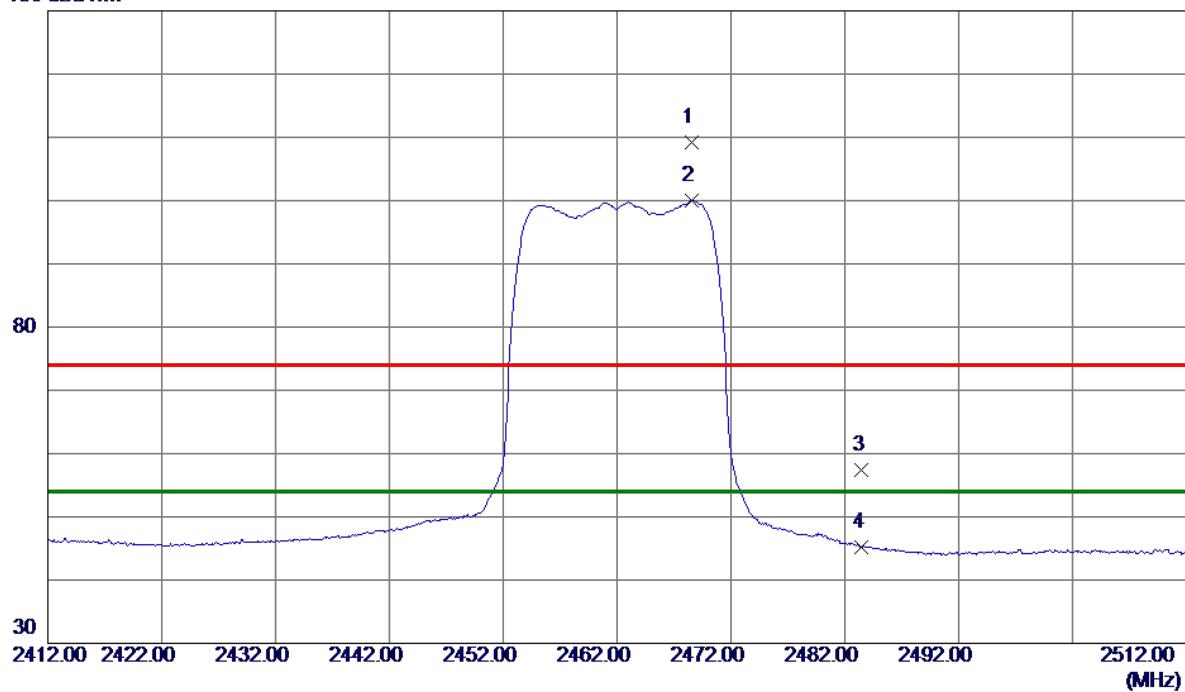
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.4200	34.02	19.55	53.57	74.00	-20.43	Peak	
2 *	9747.9600	23.43	19.55	42.98	54.00	-11.02	AVG	

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

Vertical

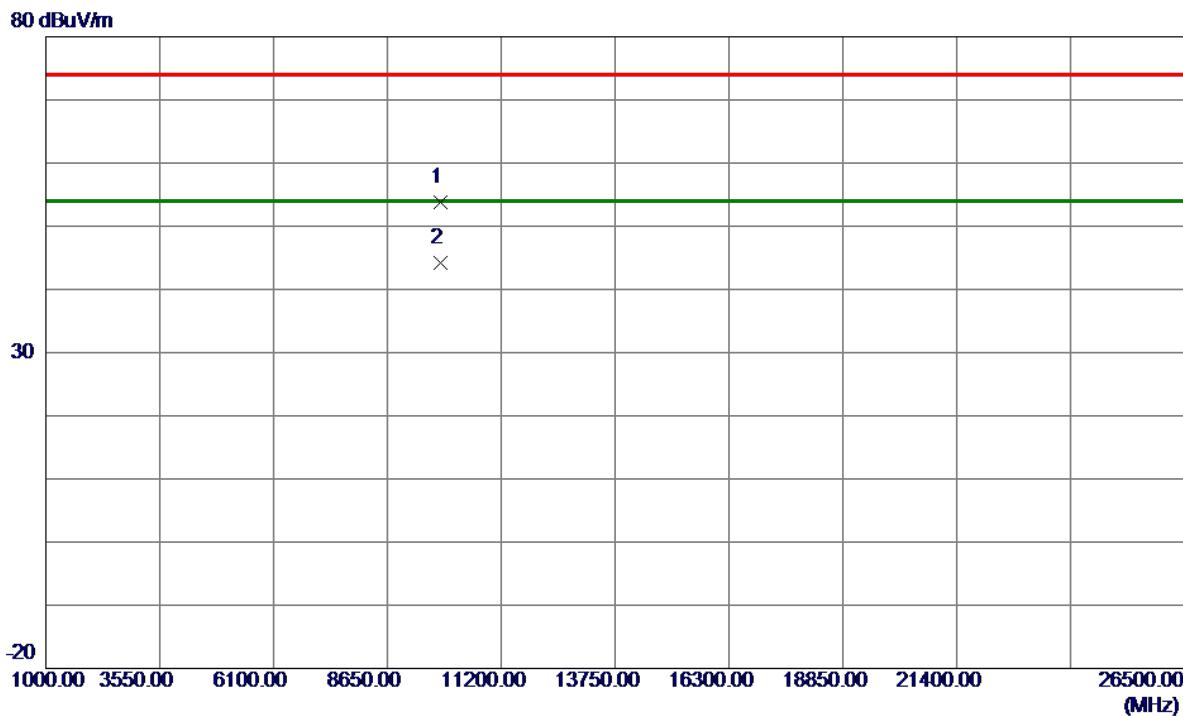
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2468.6000	97.89	11.34	109.23	74.00	35.23	Peak	No Limit
2 *	2468.6000	88.67	11.34	100.01	54.00	46.01	AVG	No Limit
3	2483.5000	46.12	11.35	57.47	74.00	-16.53	Peak	
4	2483.5000	33.92	11.35	45.27	54.00	-8.73	AVG	

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

Vertical

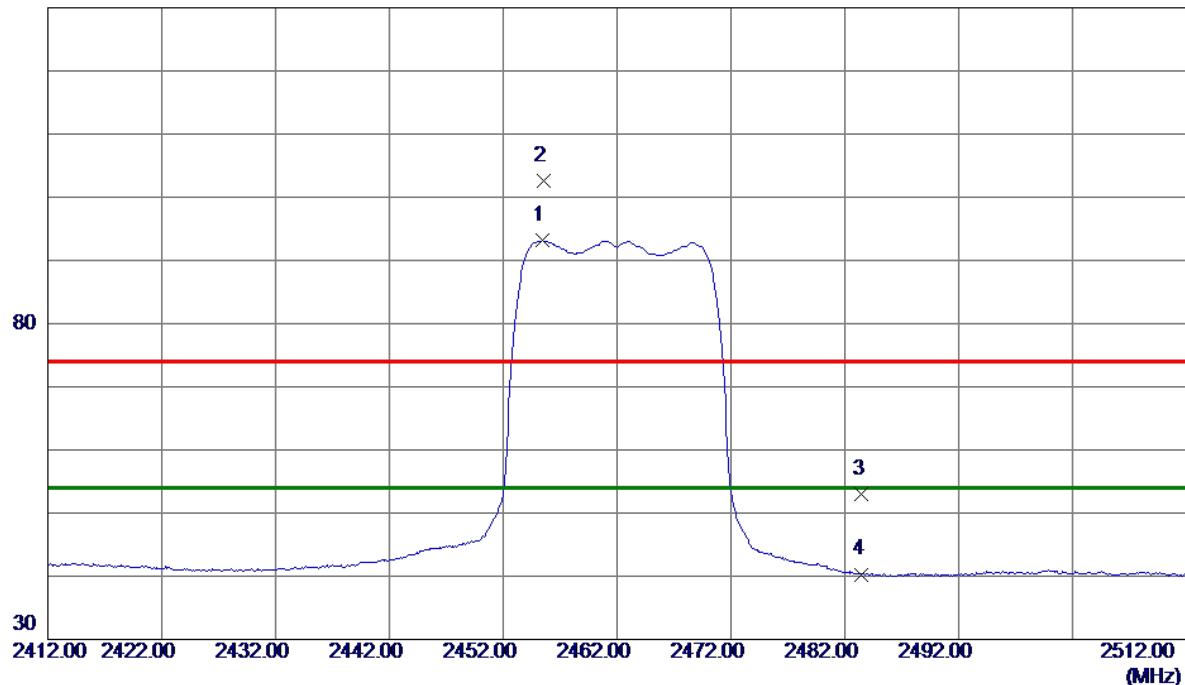


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.9150	34.09	19.65	53.74	74.00	-20.26	Peak	
2 *	9847.9200	24.49	19.65	44.14	54.00	-9.86	AVG	

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

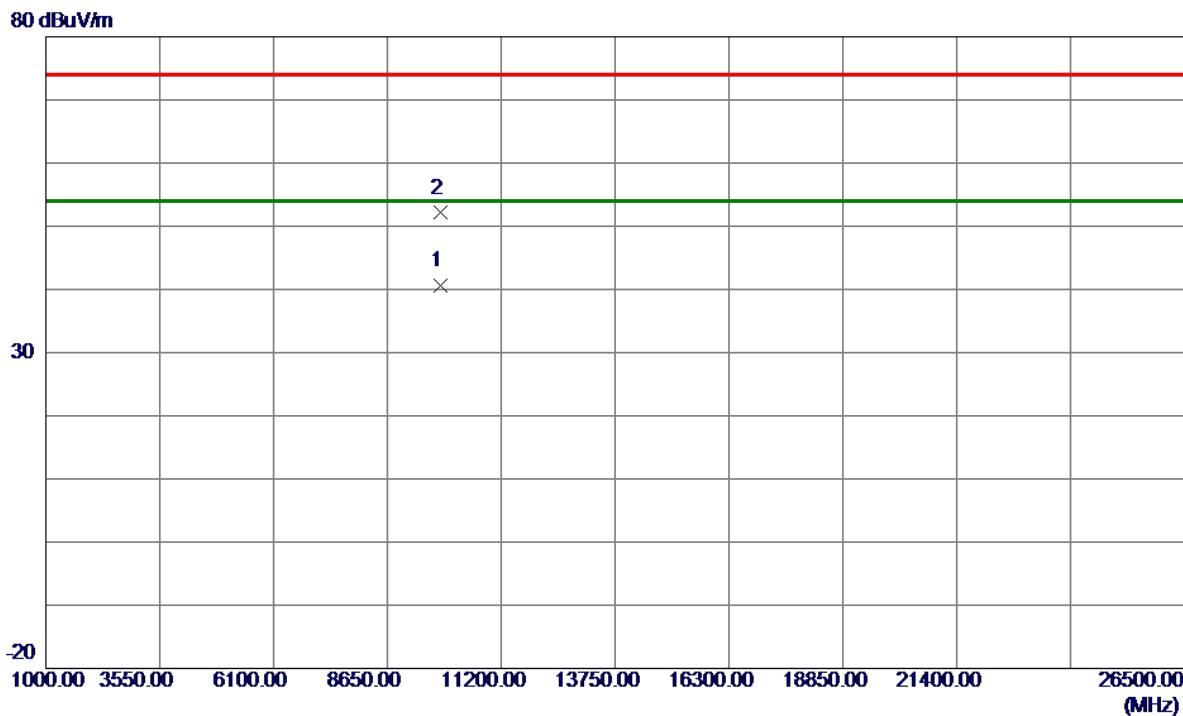
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.4000	81.78	11.34	93.12	54.00	39.12	AVG	No Limit
2	2455.6000	91.23	11.34	102.57	74.00	28.57	Peak	No Limit
3	2483.5000	41.66	11.35	53.01	74.00	-20.99	Peak	
4	2483.5000	28.95	11.35	40.30	54.00	-13.70	AVG	

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

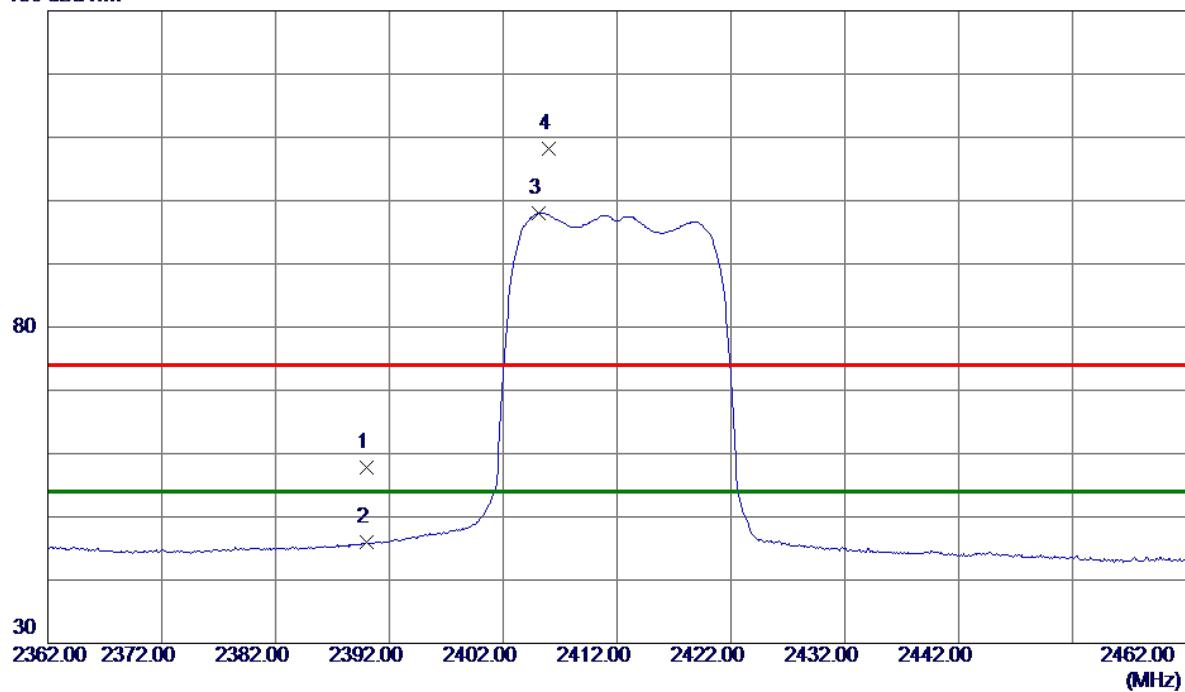
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.8550	21.04	19.65	40.69	54.00	-13.31	AVG	
2	9848.1700	32.45	19.65	52.10	74.00	-21.90	Peak	

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

Vertical

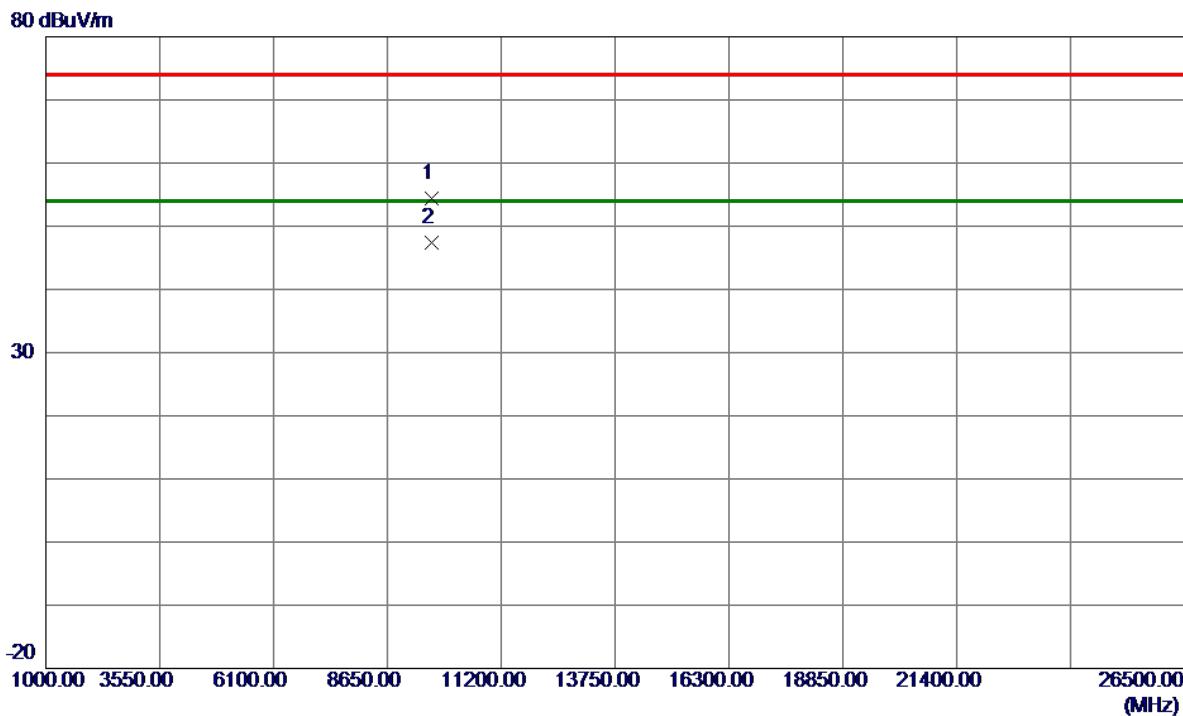
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	46.47	11.32	57.79	74.00	-16.21	Peak	
2	2390.0000	34.63	11.32	45.95	54.00	-8.05	AVG	
3 *	2405.1000	86.69	11.32	98.01	54.00	44.01	AVG	No Limit
4	2406.0000	96.92	11.32	108.24	74.00	34.24	Peak	No Limit

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

Vertical



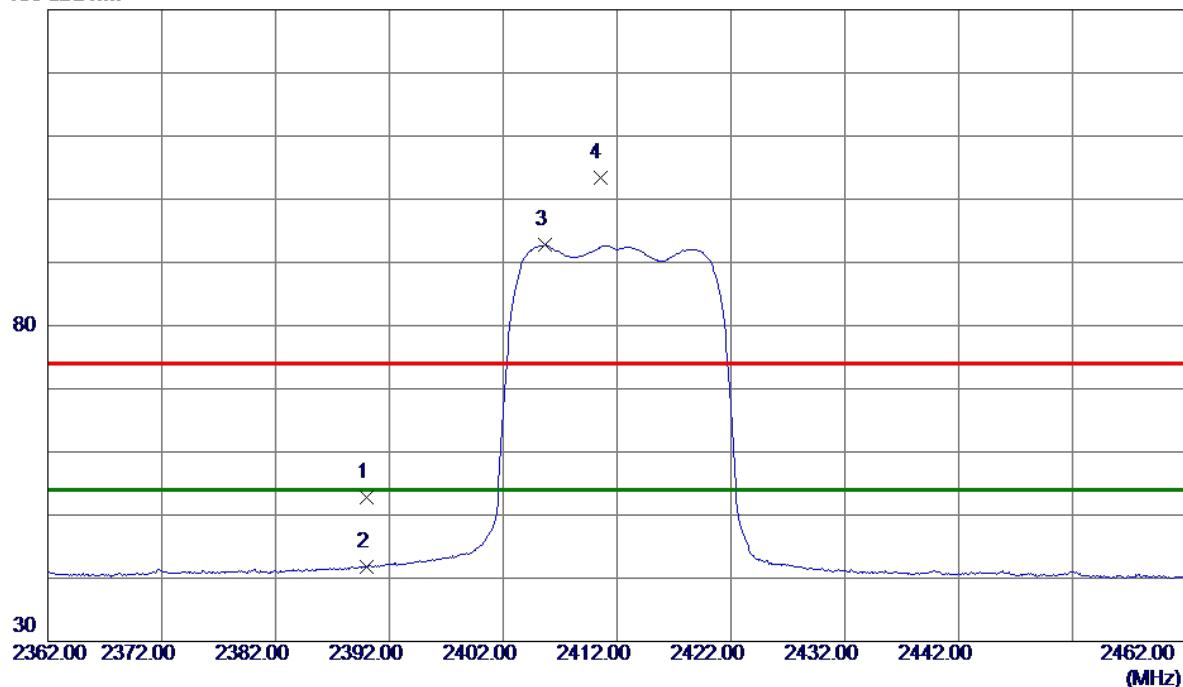
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.6449	34.98	19.45	54.43	74.00	-19.57	Peak	
2 *	9647.9400	28.00	19.45	47.45	54.00	-6.55	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Horizontal

130 dBuV/m



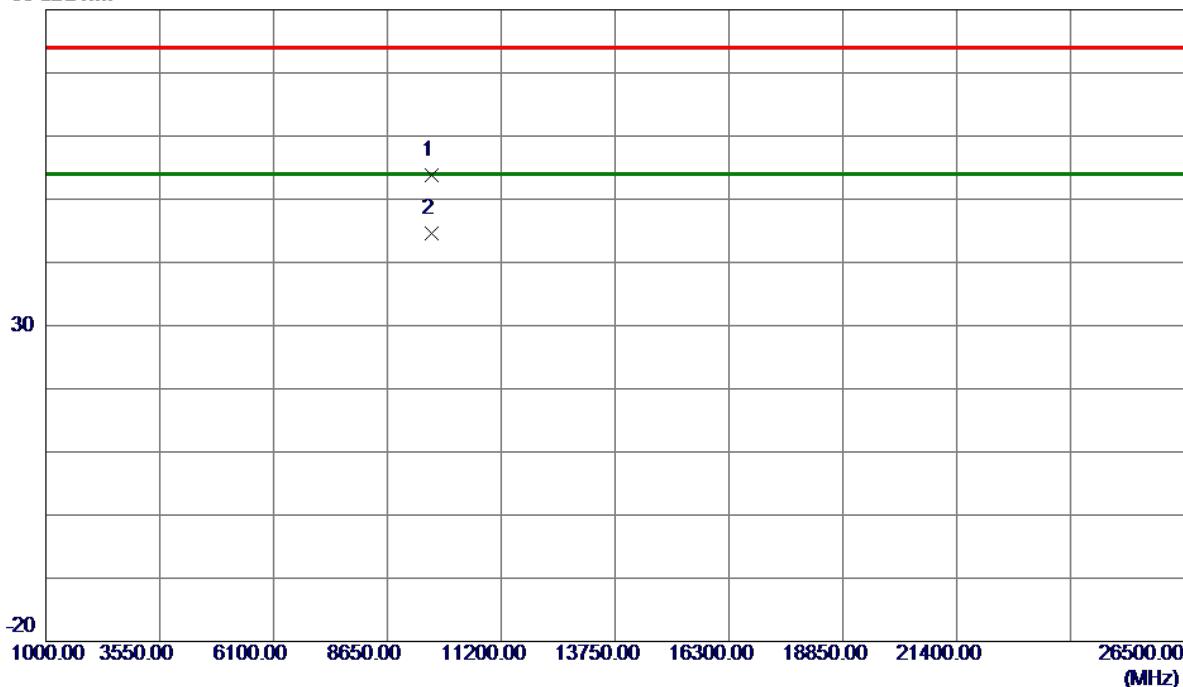
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.43	11.32	52.75	74.00	-21.25	Peak	
2	2390.0000	30.44	11.32	41.76	54.00	-12.24	AVG	
3 *	2405.7000	81.42	11.32	92.74	54.00	38.74	AVG	No Limit
4	2410.5000	92.04	11.32	103.36	74.00	29.36	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Horizontal

80 dBuV/m

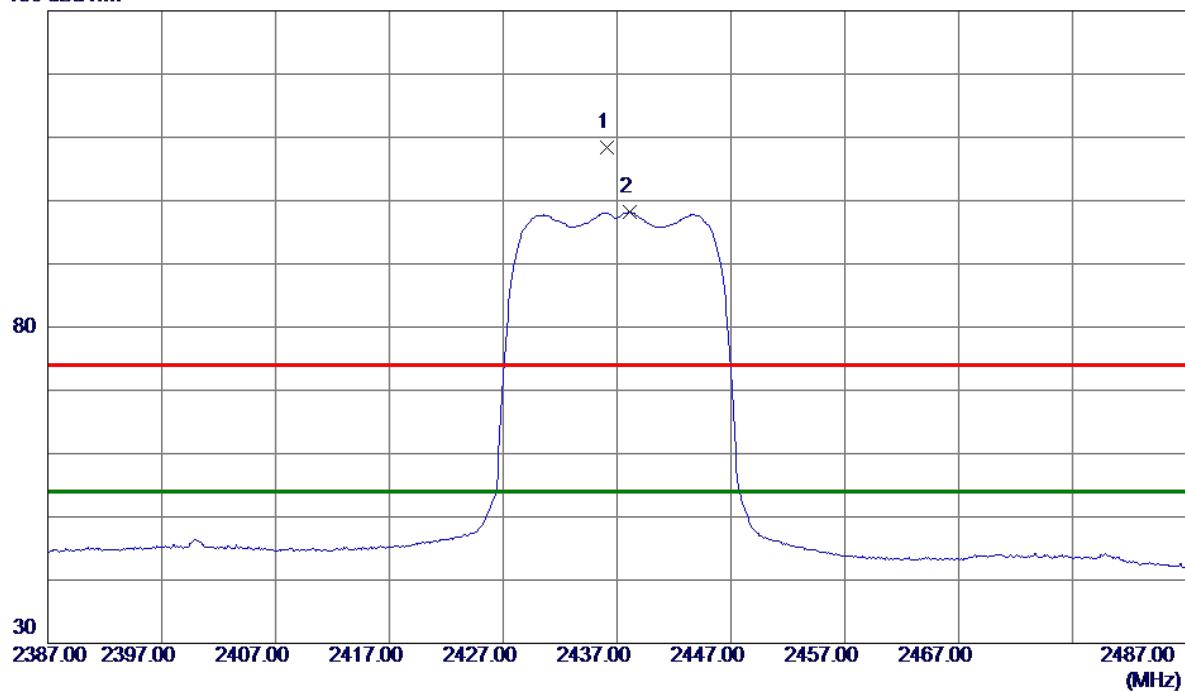


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.8500	34.27	19.45	53.72	74.00	-20.28	Peak	
2 *	9647.9900	25.18	19.46	44.64	54.00	-9.36	AVG	

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

Vertical

130 dBuV/m



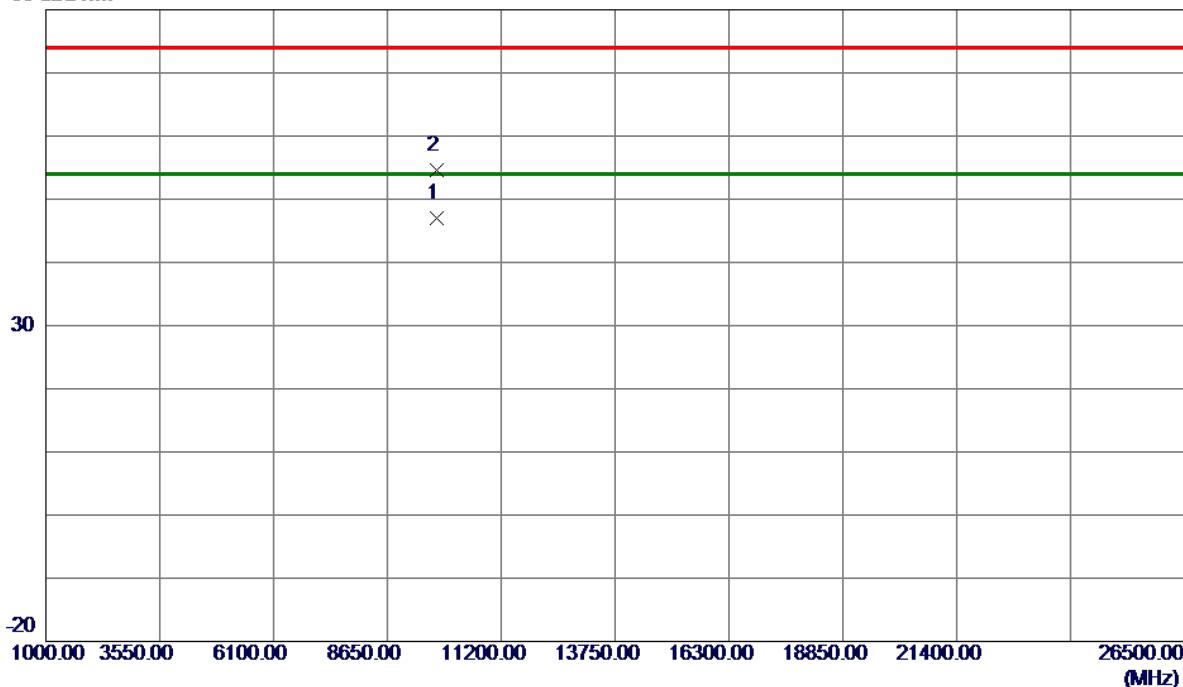
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1000	97.05	11.33	108.38	74.00	34.38	Peak	No Limit
2 *	2438.1000	86.80	11.33	98.13	54.00	44.13	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Vertical

80 dBuV/m



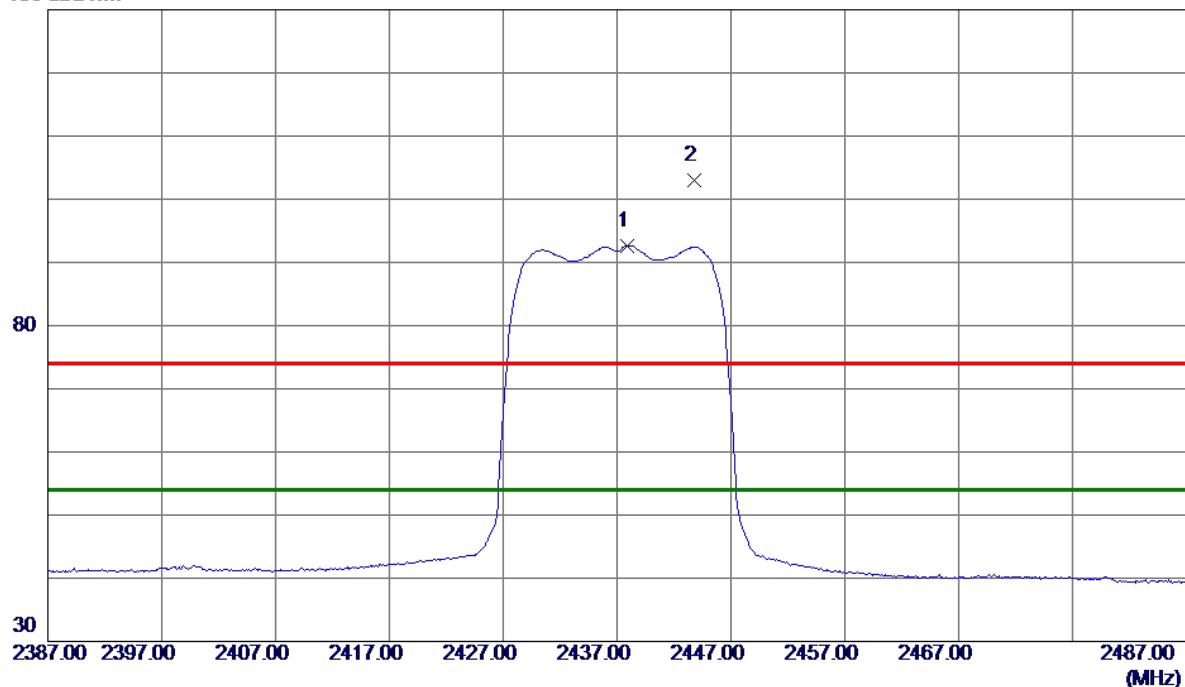
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9700	27.41	19.55	46.96	54.00	-7.04	AVG	
2	9748.0050	35.07	19.55	54.62	74.00	-19.38	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Horizontal

130 dBuV/m



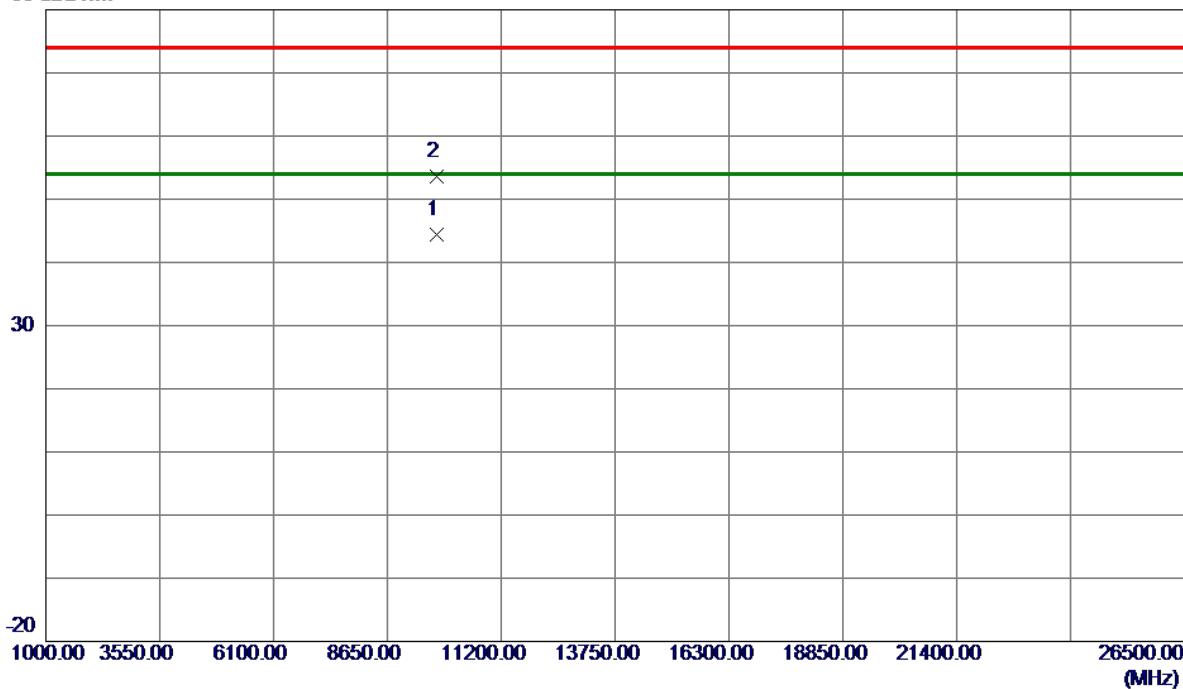
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.9000	81.31	11.33	92.64	54.00	38.64	AVG	No Limit
2	2443.8000	91.58	11.33	102.91	74.00	28.91	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Horizontal

80 dBuV/m

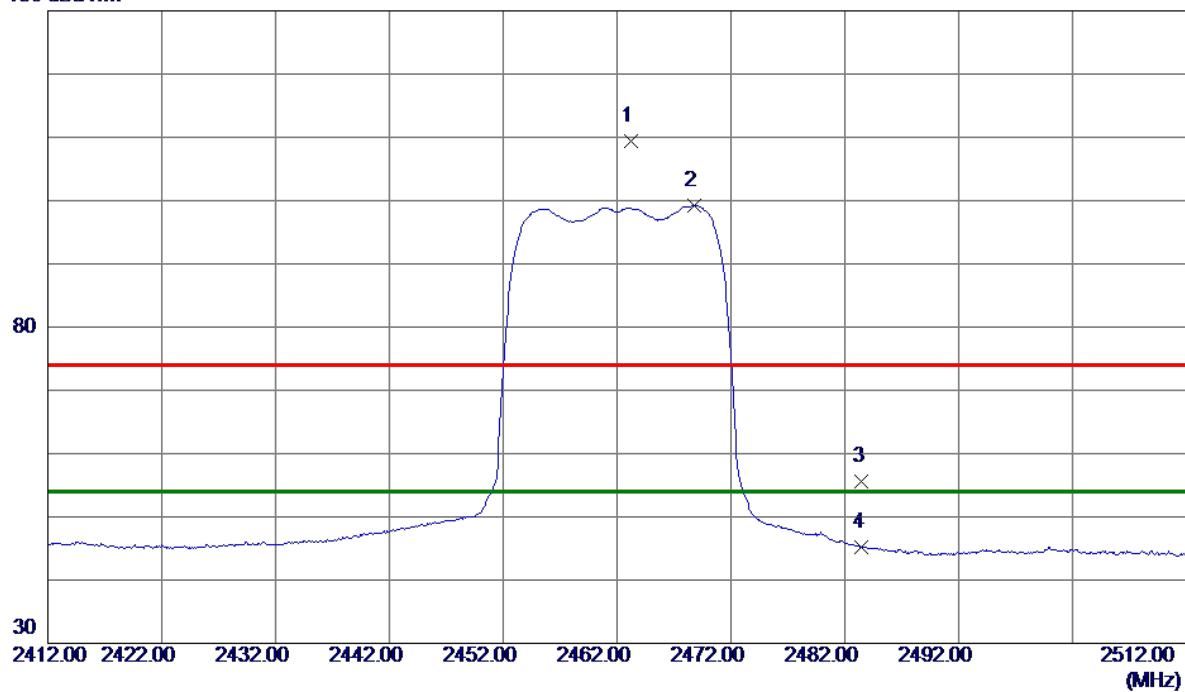


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9300	24.80	19.55	44.35	54.00	-9.65	AVG	
2	9747.9800	34.12	19.55	53.67	74.00	-20.33	Peak	

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

Vertical

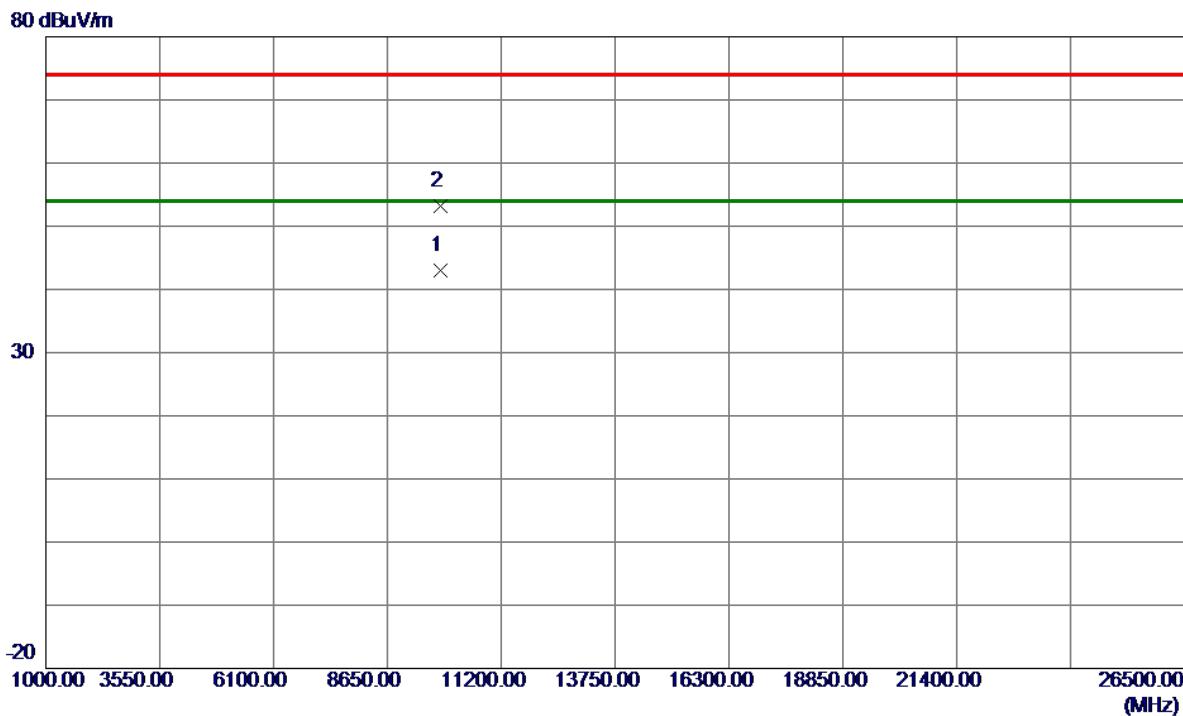
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2463.2000	97.99	11.34	109.33	74.00	35.33	Peak	No Limit
2 *	2468.8000	87.90	11.34	99.24	54.00	45.24	AVG	No Limit
3	2483.5000	44.28	11.35	55.63	74.00	-18.37	Peak	
4	2483.5000	33.92	11.35	45.27	54.00	-8.73	AVG	

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

Vertical



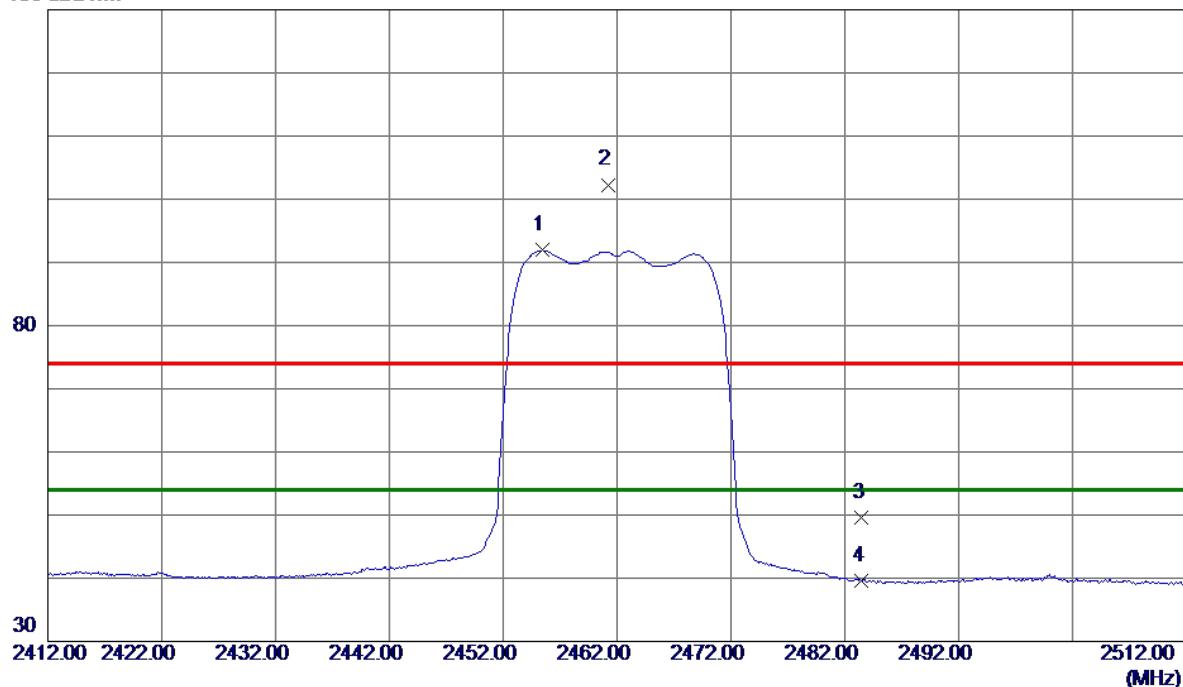
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.9850	23.33	19.65	42.98	54.00	-11.02	AVG	
2	9848.3150	33.50	19.65	53.15	74.00	-20.85	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.4000	80.58	11.34	91.92	54.00	37.92	AVG	No Limit
2	2461.2000	90.96	11.34	102.30	74.00	28.30	Peak	No Limit
3	2483.5000	38.25	11.35	49.60	74.00	-24.40	Peak	
4	2483.5000	28.16	11.35	39.51	54.00	-14.49	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

Horizontal

80 dBuV/m

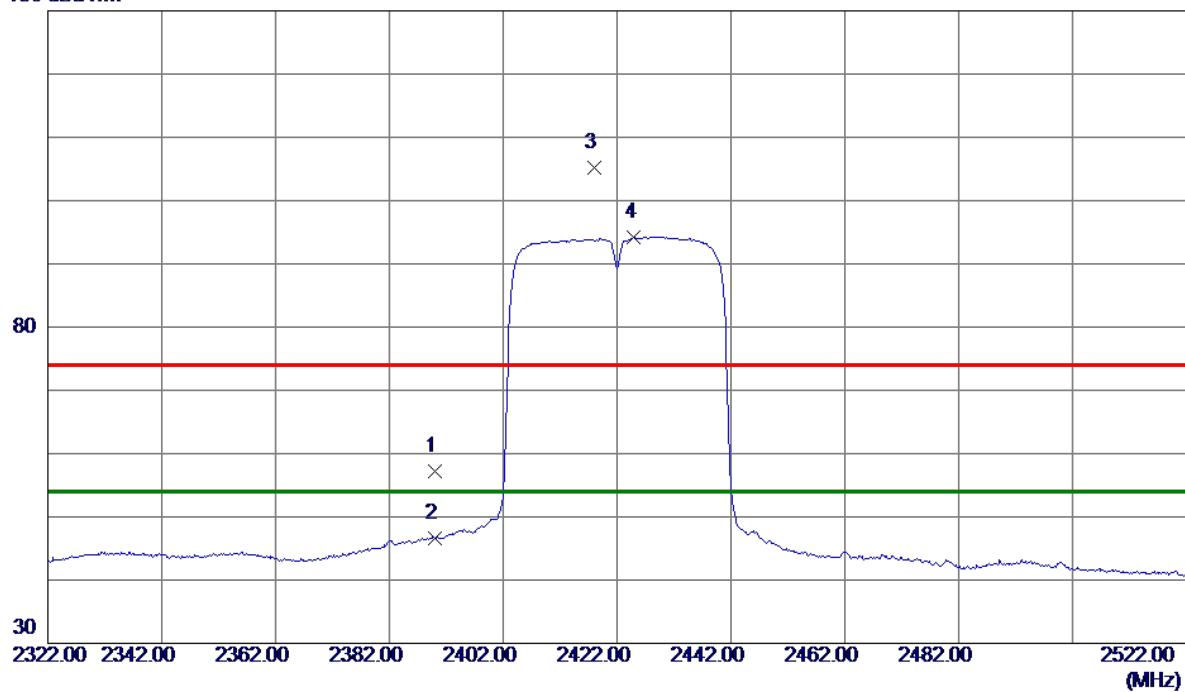


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9848.1000	22.30	19.65	41.95	54.00	-12.05	AVG	
2	9848.1849	32.92	19.65	52.57	74.00	-21.43	Peak	

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

Vertical

130 dBuV/m



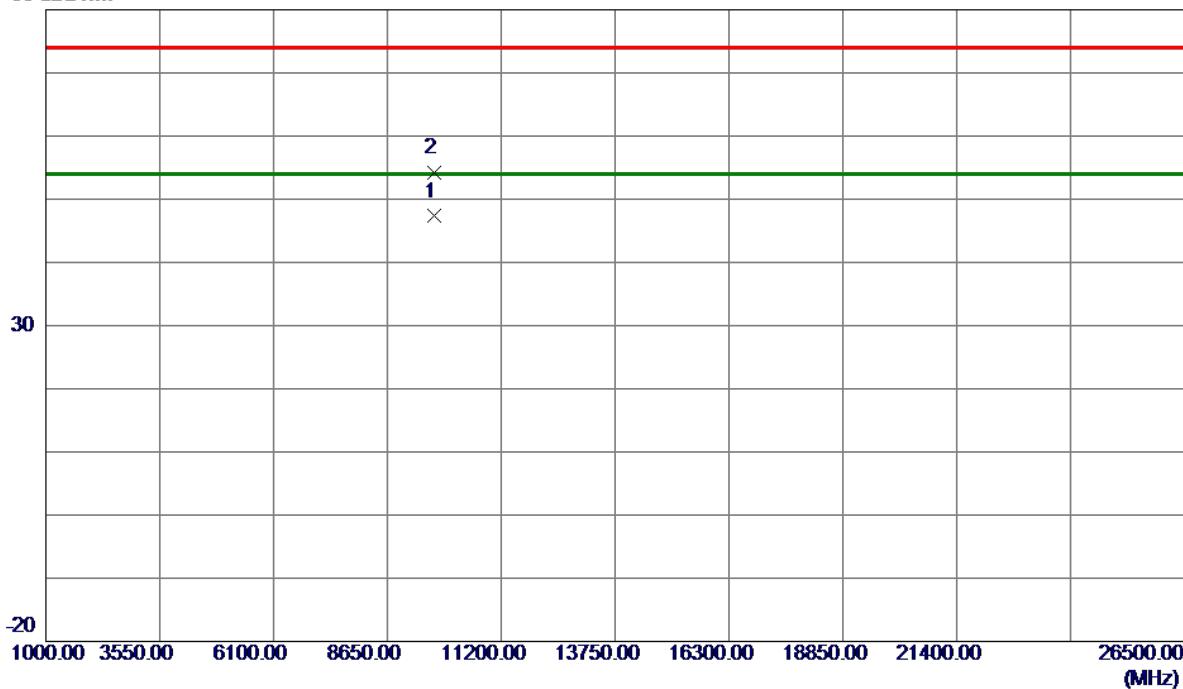
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.84	11.32	57.16	74.00	-16.84	Peak	
2	2390.0000	35.31	11.32	46.63	54.00	-7.37	AVG	
3	2418.0000	93.94	11.33	105.27	74.00	31.27	Peak	No Limit
4 *	2425.0000	82.90	11.33	94.23	54.00	40.23	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Vertical

80 dBuV/m



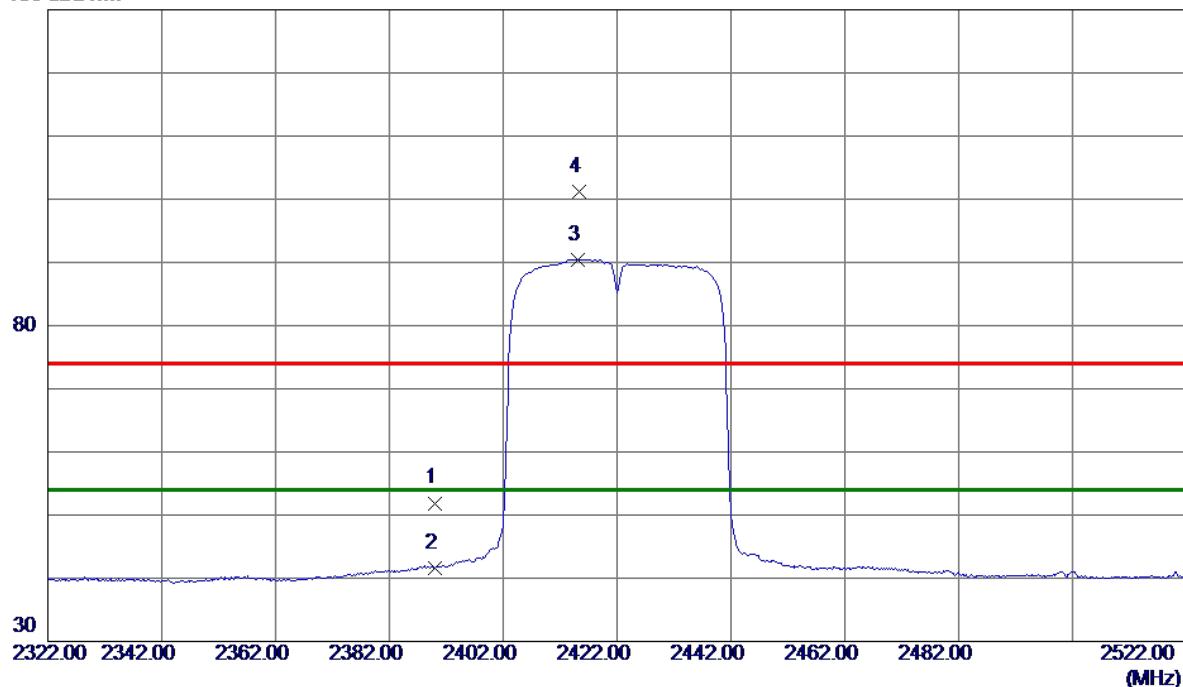
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9687.8450	27.81	19.49	47.30	54.00	-6.70	AVG	
2	9688.1250	34.73	19.49	54.22	74.00	-19.78	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

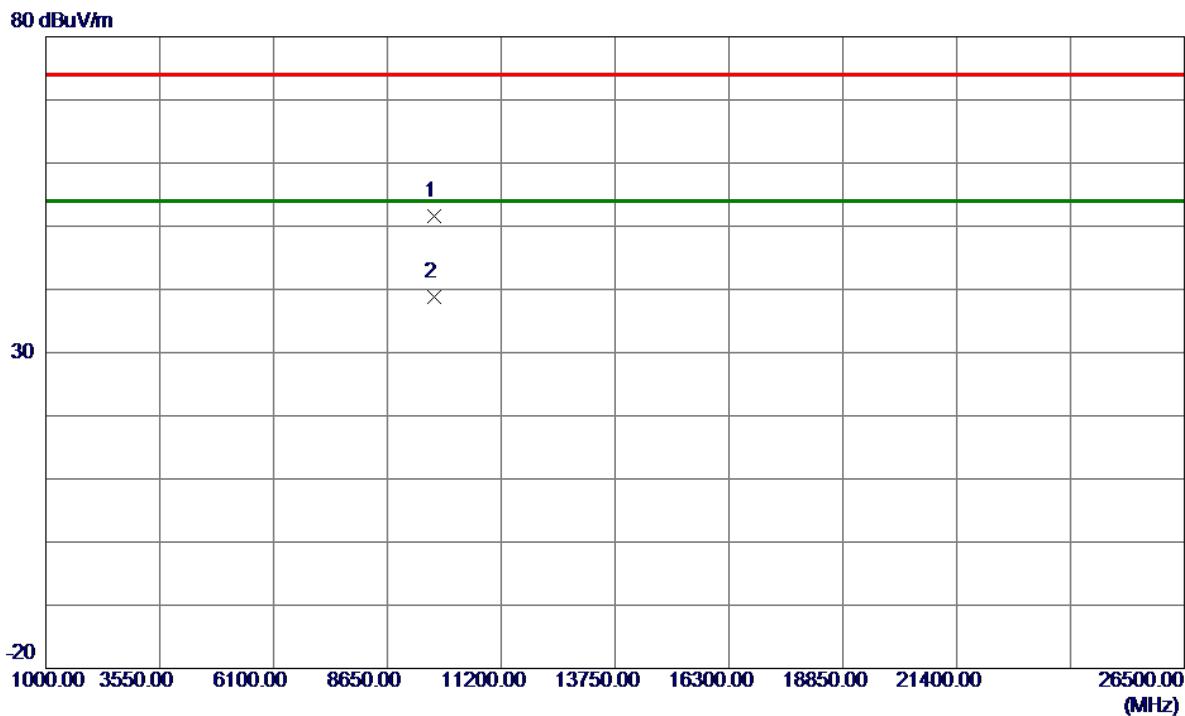
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	40.58	11.32	51.90	74.00	-22.10	Peak	
2	2390.0000	30.33	11.32	41.65	54.00	-12.35	AVG	
3 *	2415.2000	79.15	11.33	90.48	54.00	36.48	AVG	No Limit
4	2415.4000	89.96	11.33	101.29	74.00	27.29	Peak	No Limit

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

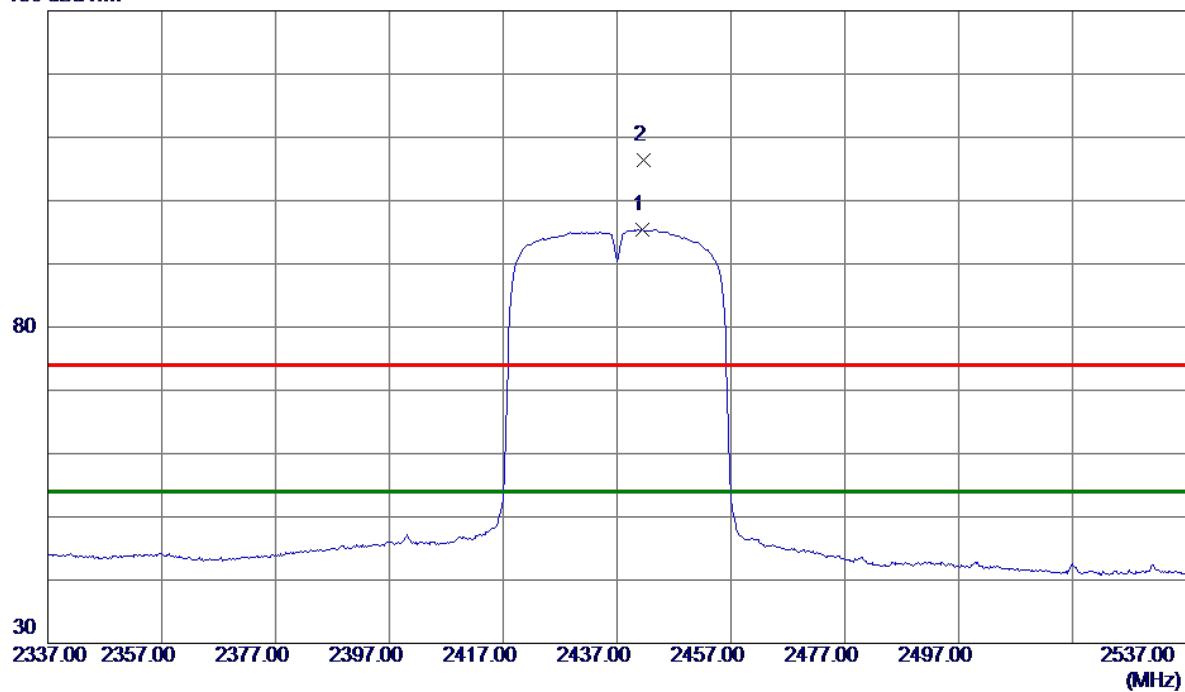
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9685.5599	32.13	19.49	51.62	74.00	-22.38	Peak	
2 *	9687.9450	19.30	19.49	38.79	54.00	-15.21	AVG	

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

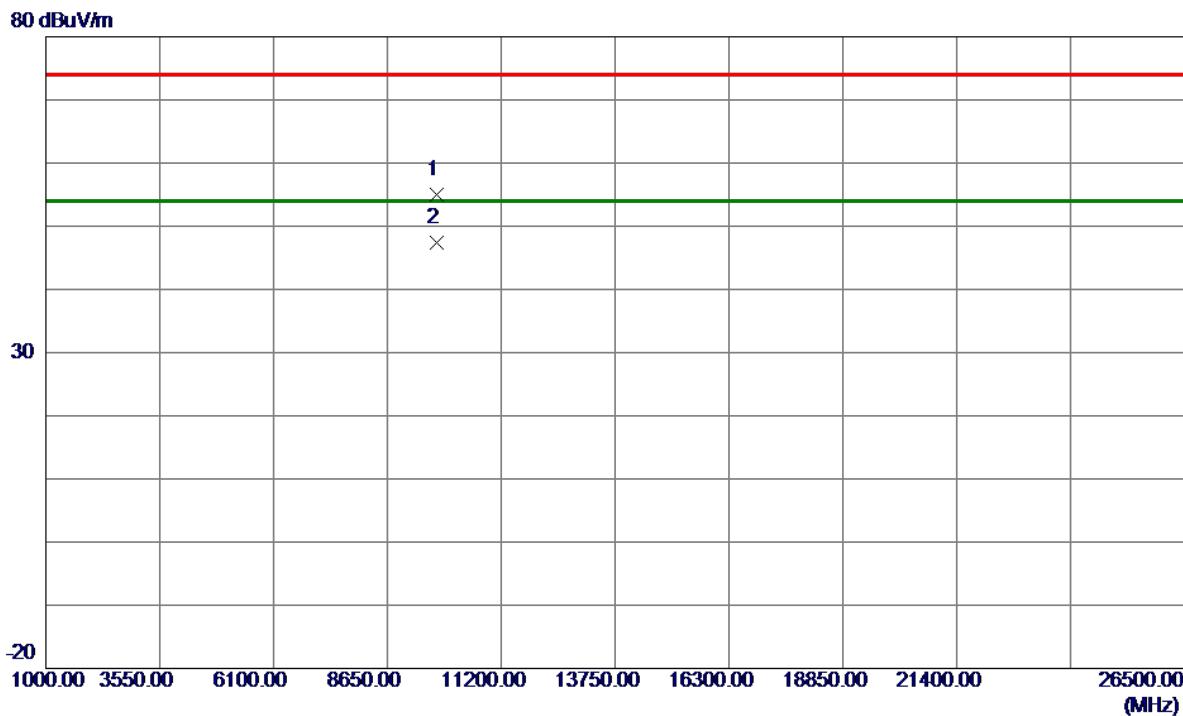
Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2441.4000	84.04	11.33	95.37	54.00	41.37	AVG	No Limit
2	2441.6000	95.13	11.33	106.46	74.00	32.46	Peak	No Limit

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

Vertical

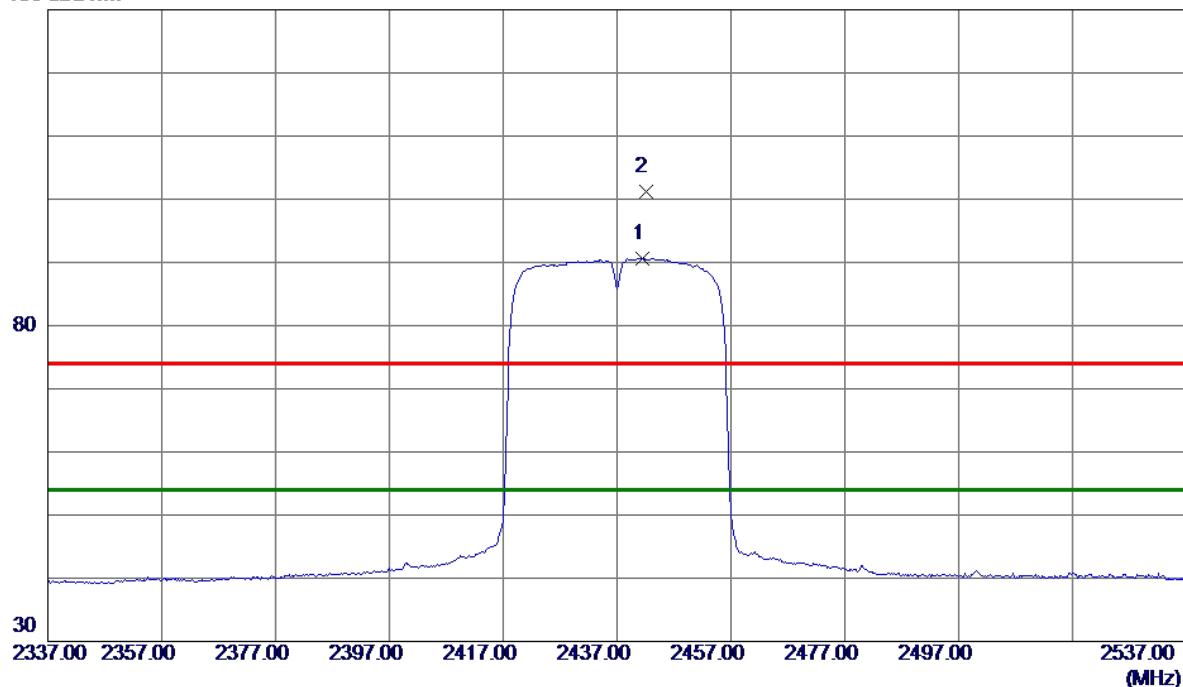
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.9349	35.40	19.55	54.95	74.00	-19.05	Peak	
2 *	9747.9850	27.86	19.55	47.41	54.00	-6.59	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Horizontal

130 dBuV/m



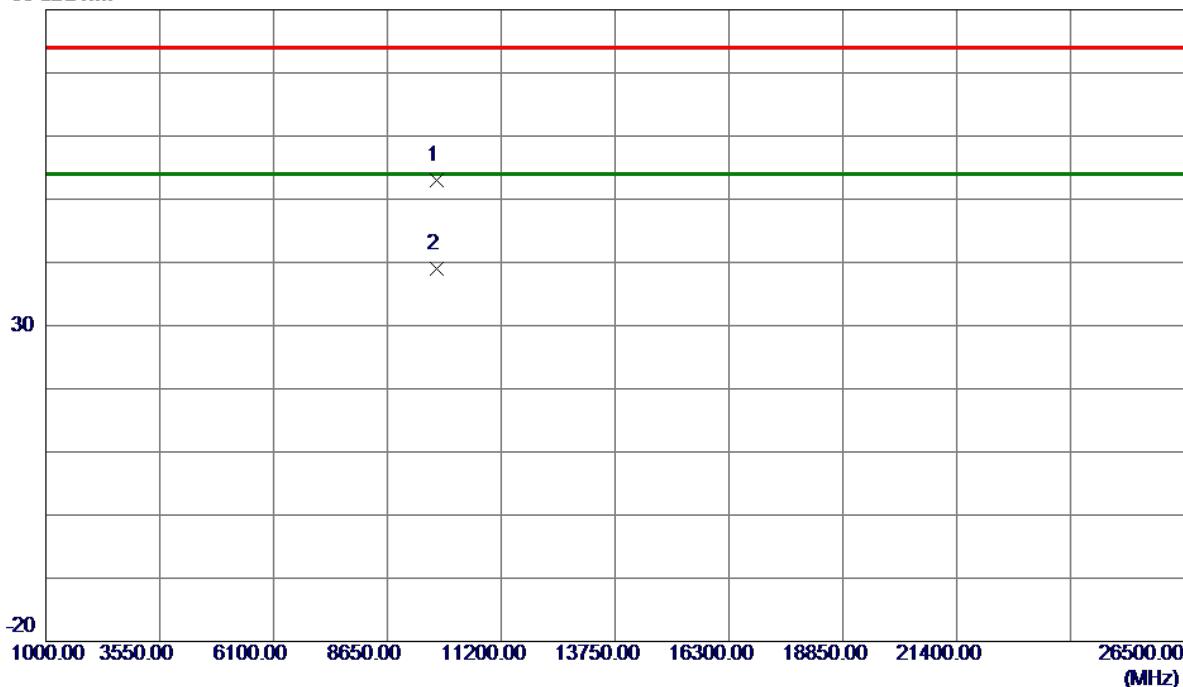
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2441.4000	79.29	11.33	90.62	54.00	36.62	AVG	No Limit
2	2442.0000	89.95	11.33	101.28	74.00	27.28	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Horizontal

80 dBuV/m

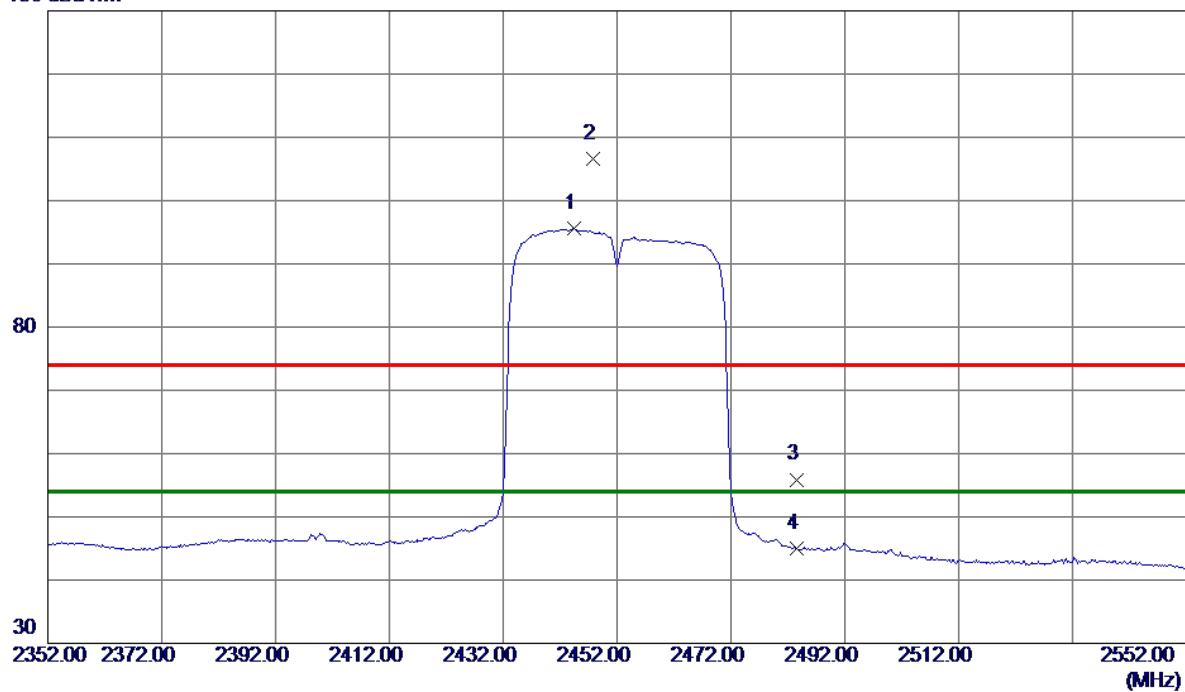


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9745.6449	33.51	19.55	53.06	74.00	-20.94	Peak	
2 *	9746.1300	19.43	19.55	38.98	54.00	-15.02	AVG	

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

Vertical

130 dBuV/m



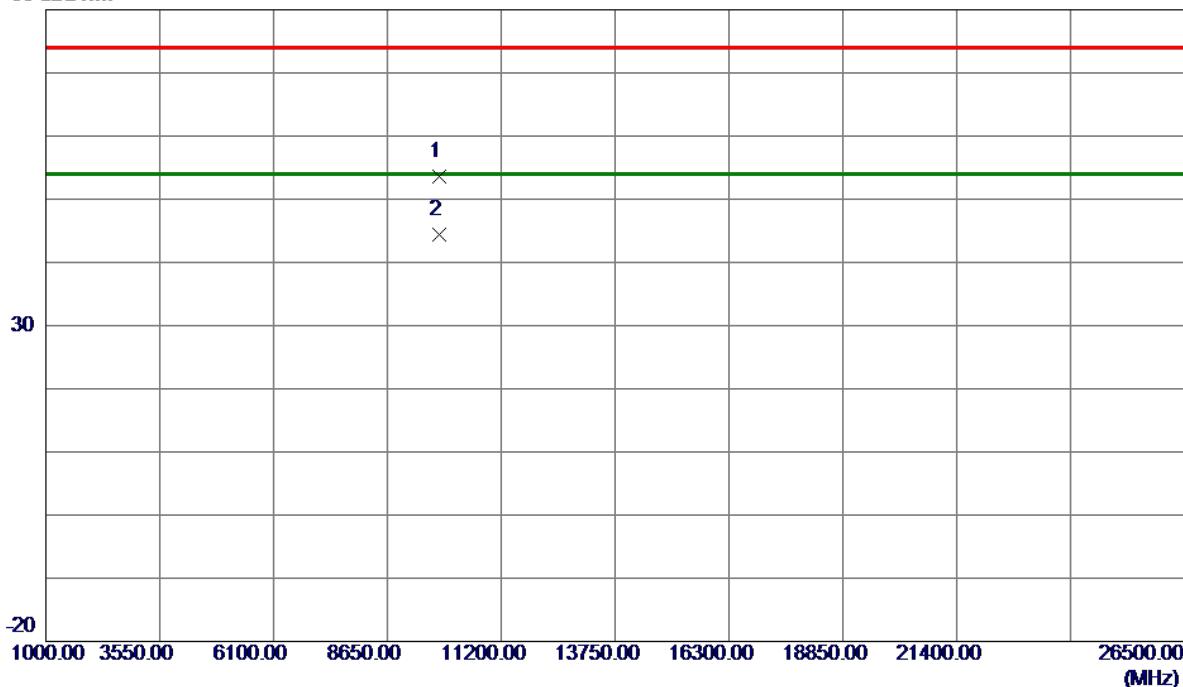
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2444.4000	84.21	11.33	95.54	54.00	41.54	AVG	No Limit
2	2447.8000	95.29	11.34	106.63	74.00	32.63	Peak	No Limit
3	2483.5000	44.55	11.35	55.90	74.00	-18.10	Peak	
4	2483.5000	33.58	11.35	44.93	54.00	-9.07	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

Vertical

80 dBuV/m



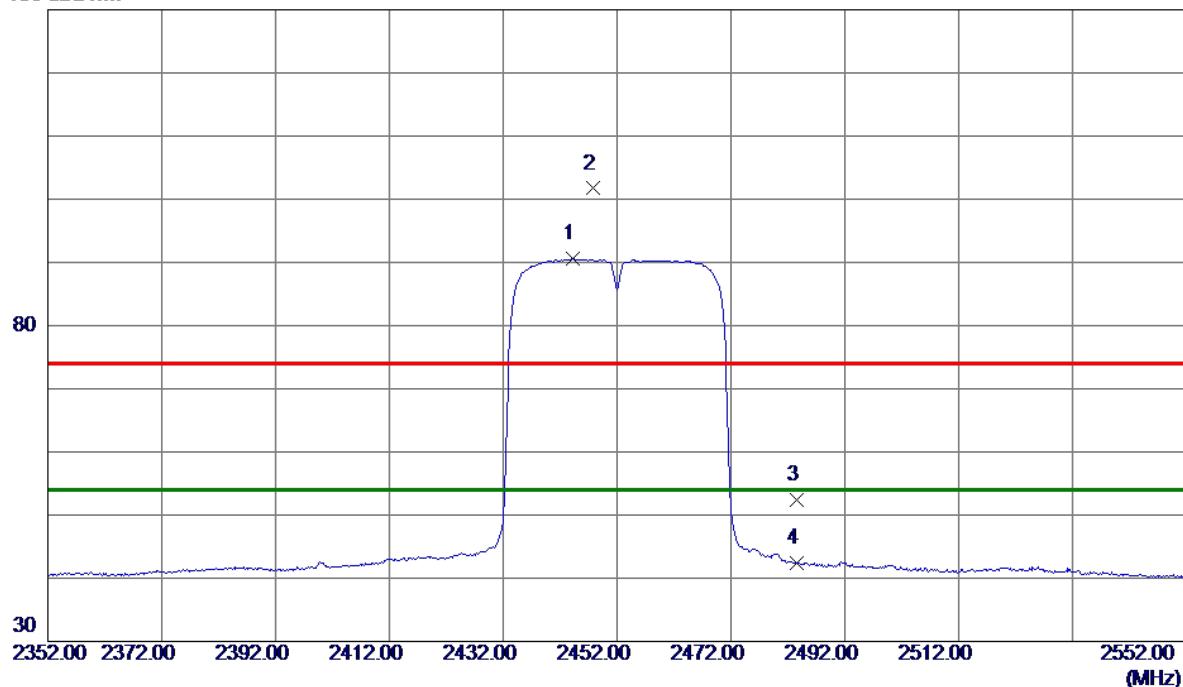
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9807.9750	33.91	19.61	53.52	74.00	-20.48	Peak	
2 *	9808.0050	24.73	19.61	44.34	54.00	-9.66	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

Horizontal

130 dBuV/m



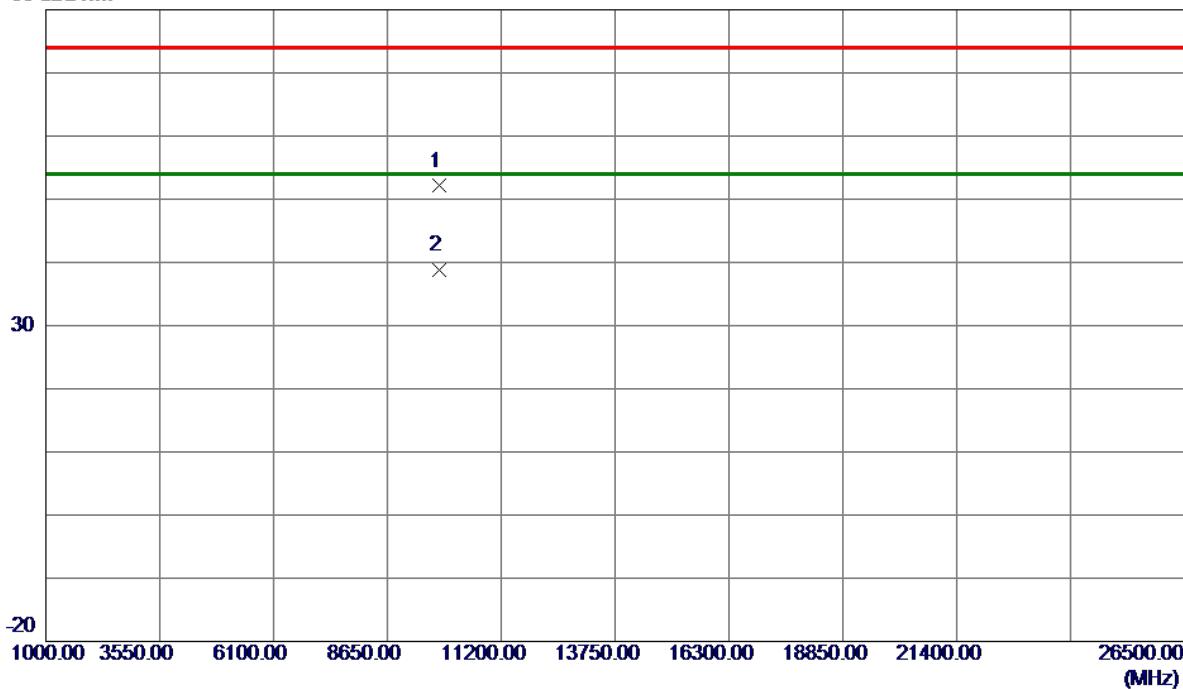
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2444.2000	79.27	11.33	90.60	54.00	36.60	AVG	No Limit
2	2447.8000	90.36	11.34	101.70	74.00	27.70	Peak	No Limit
3	2483.5000	41.09	11.35	52.44	74.00	-21.56	Peak	
4	2483.5000	31.08	11.35	42.43	54.00	-11.57	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	9807.6300	32.49	19.61	52.10	74.00	-21.90	Peak	
2 *	9807.9850	19.11	19.61	38.72	54.00	-15.28	AVG	

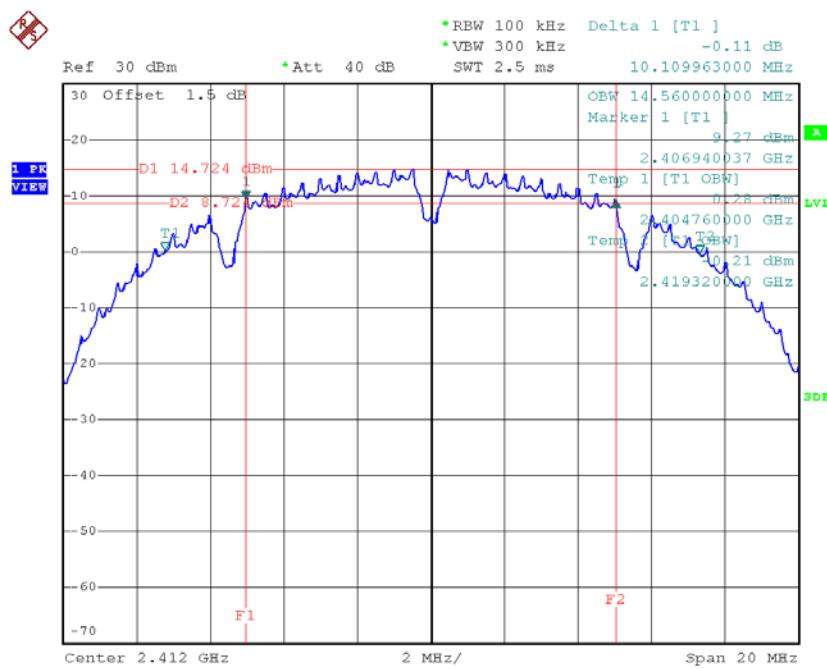
APPENDIX E - BANDWIDTH

Non-Beamforming

Test Mode : TX B Mode_CH01/06/11

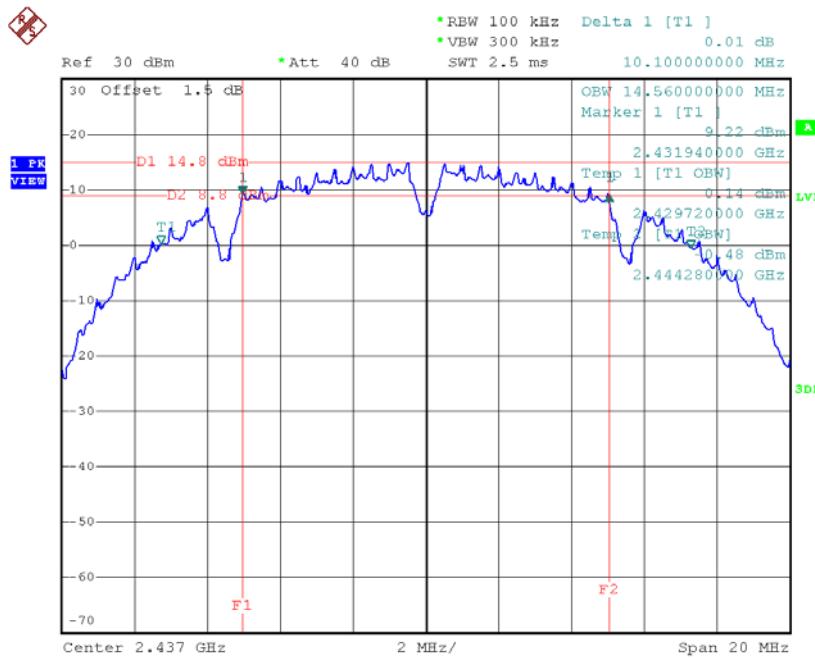
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.11	14.56	500	Complies
2437	10.10	14.56	500	Complies
2462	10.10	14.64	500	Complies

TX CH01



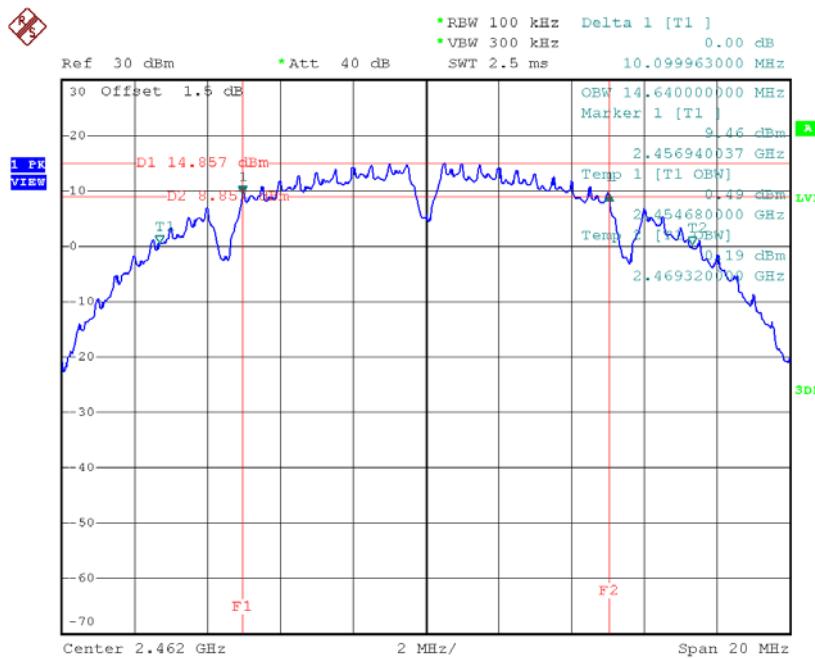
Date: 25.JUL.2018 18:39:17

TX CH06



Date: 25.JUL.2018 18:42:21

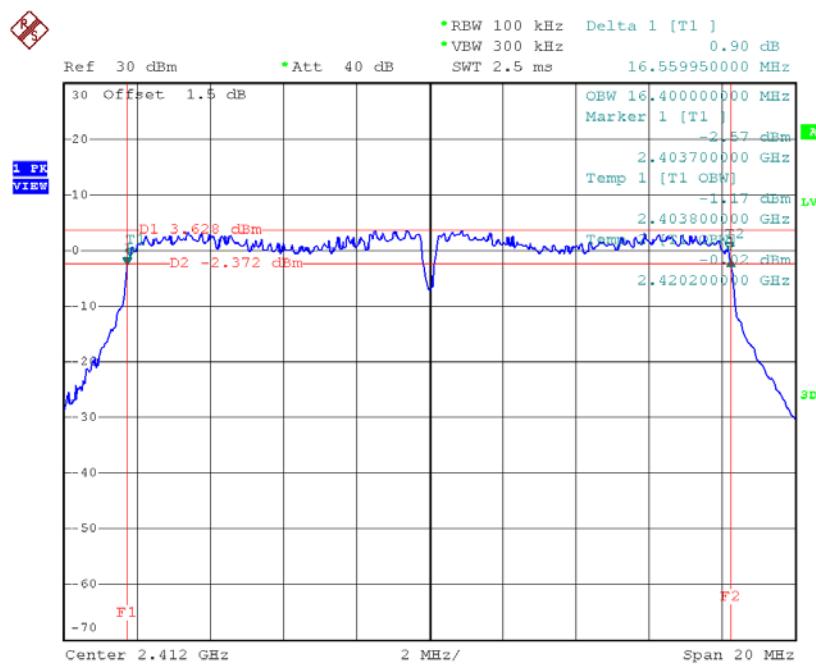
TX CH11



Date: 25.JUL.2018 18:44:52

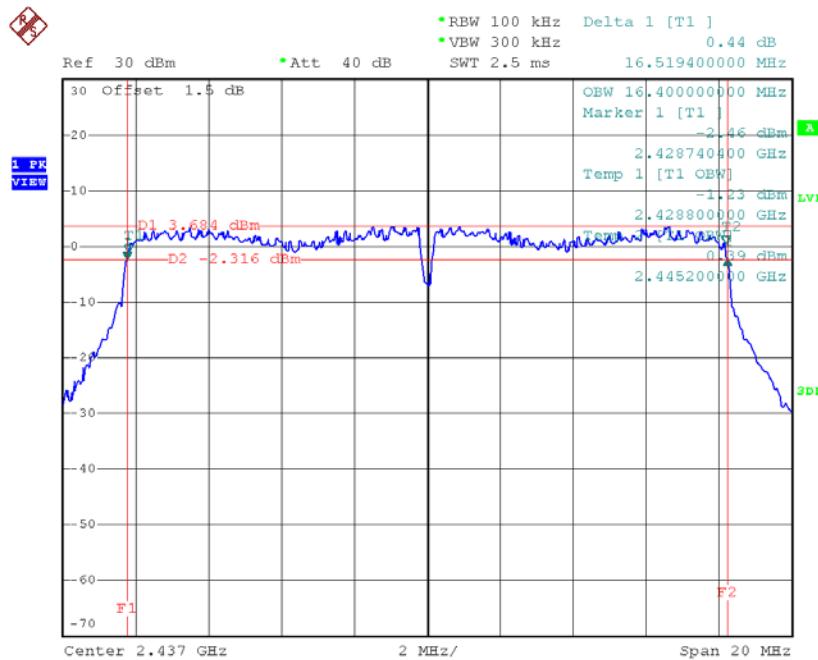
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.56	16.40	500	Complies
2437	16.52	16.40	500	Complies
2462	16.50	16.40	500	Complies

TX CH01


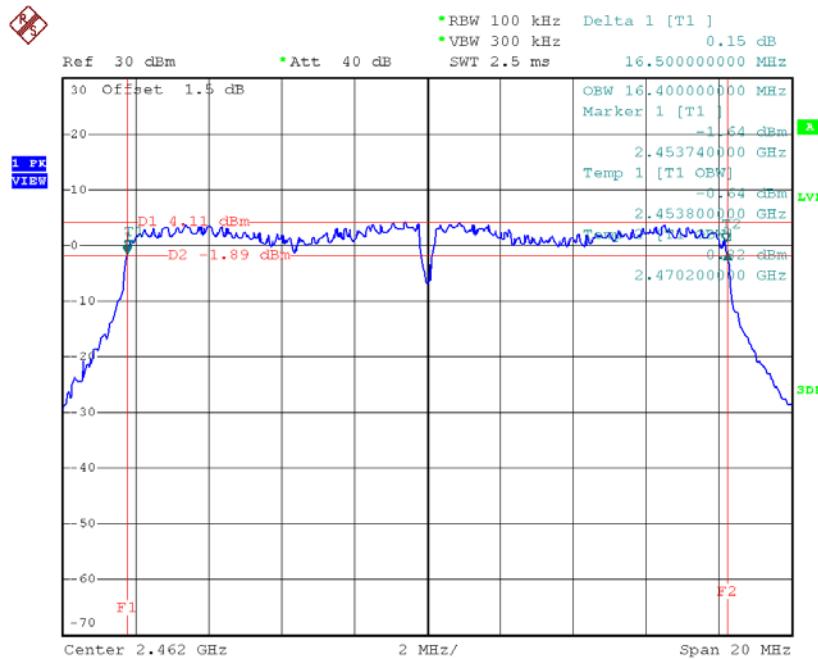
Date: 25.JUL.2018 18:47:28

TX CH06



Date: 25.JUL.2018 18:48:57

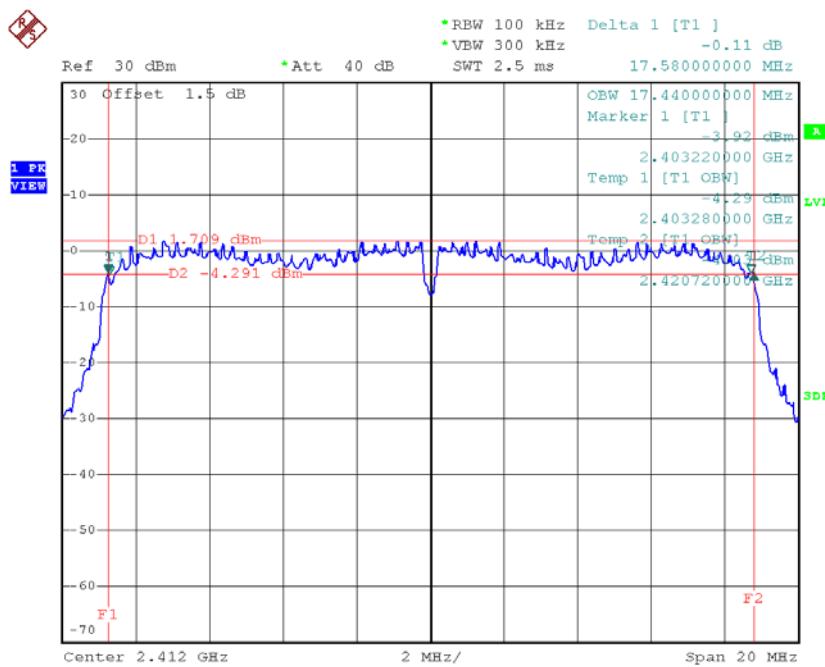
TX CH11



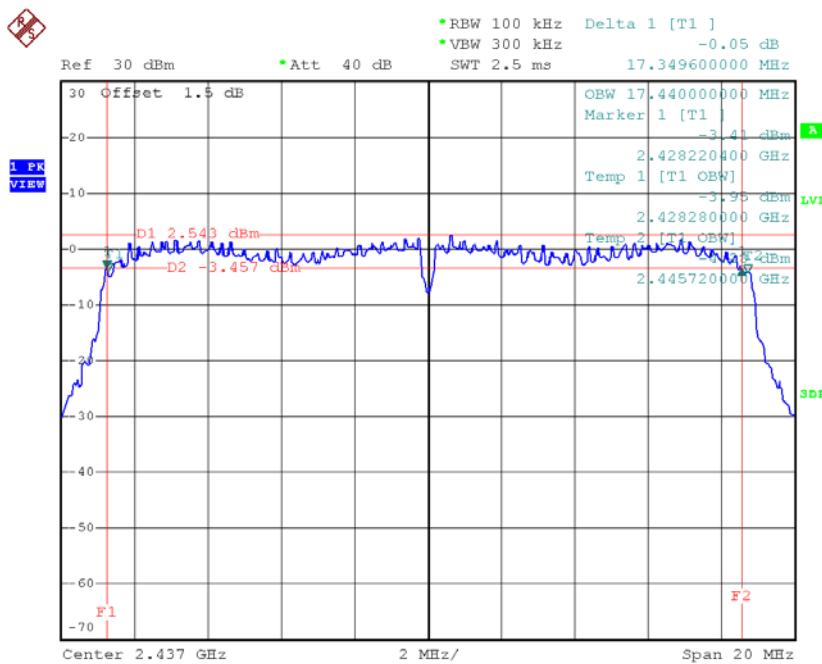
Date: 25.JUL.2018 18:55:20

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

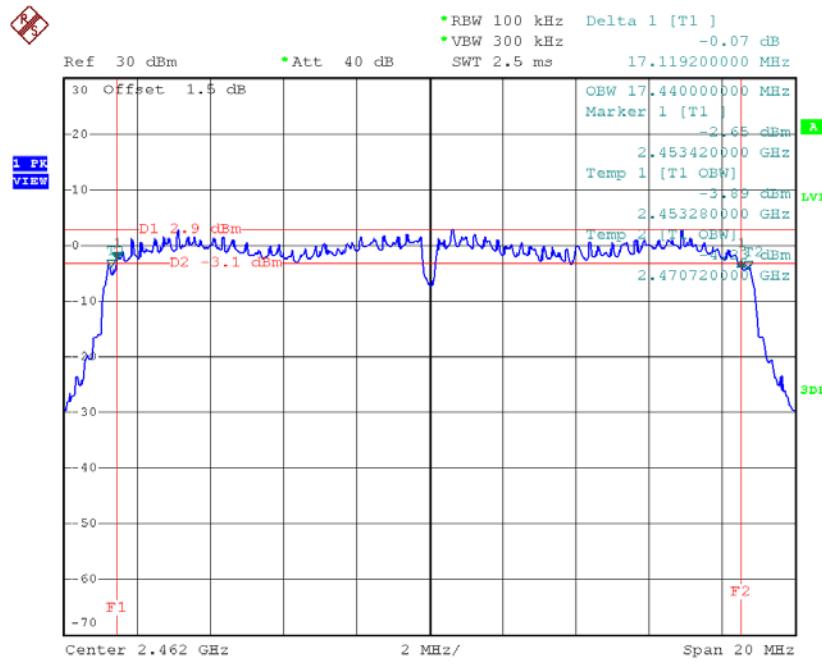
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.58	17.44	500	Complies
2437	17.35	17.44	500	Complies
2462	17.12	17.44	500	Complies

TX CH01


Date: 25.JUL.2018 18:57:23

TX CH06

Date: 25.JUL.2018 18:59:06

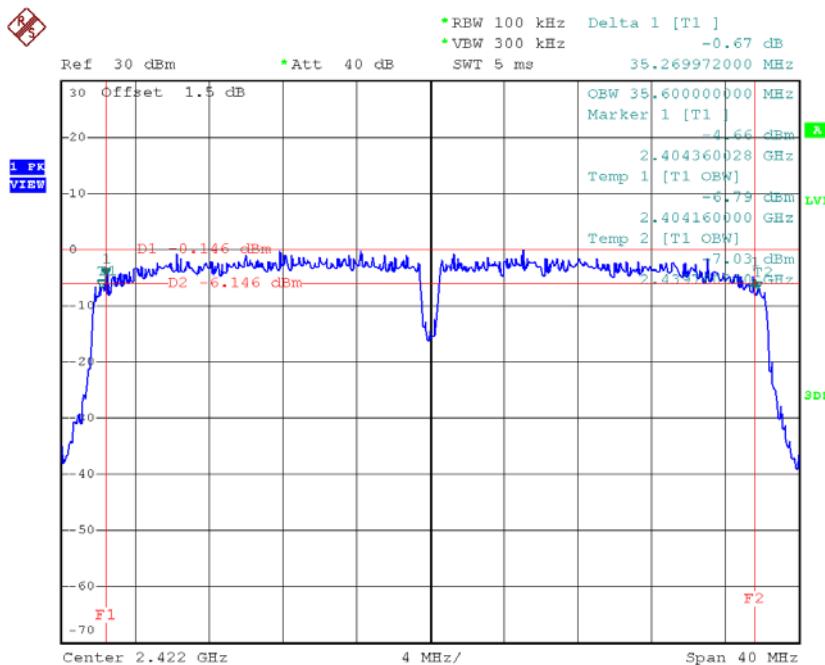
TX CH11

Date: 25.JUL.2018 19:00:28

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

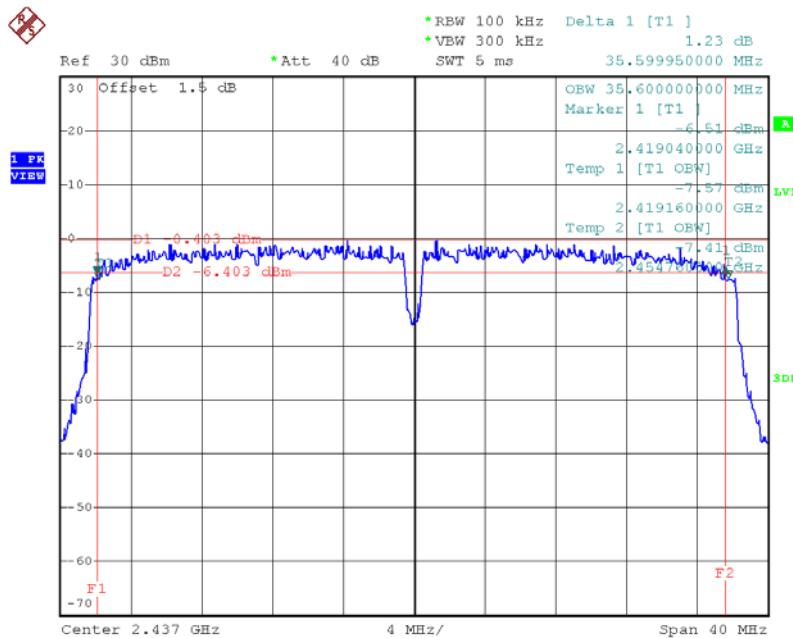
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.27	35.60	500	Complies
2437	35.60	35.60	500	Complies
2452	35.40	35.60	500	Complies

TX CH03



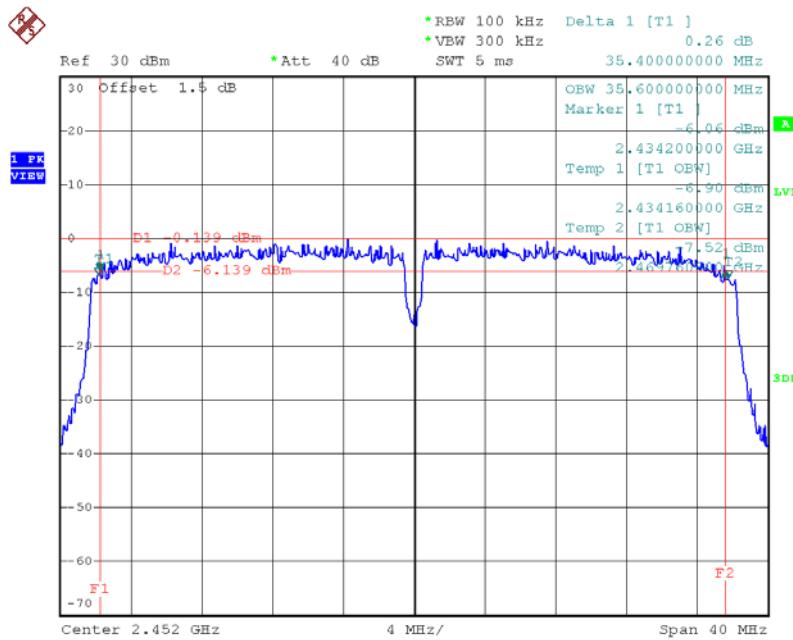
Date: 25.JUL.2018 19:04:29

TX CH06



Date: 25.JUL.2018 19:05:51

TX CH09



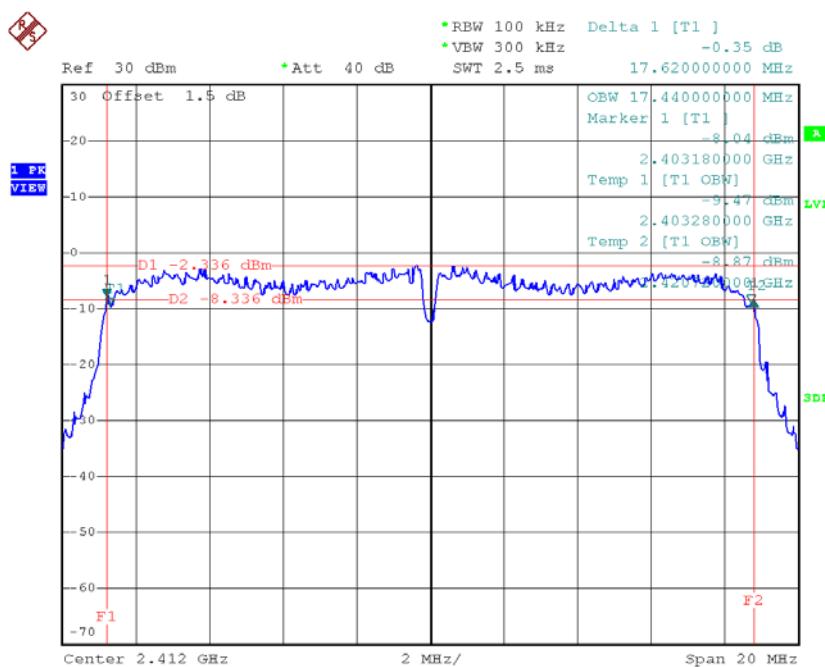
Date: 25.JUL.2018 19:07:08

Beamforming

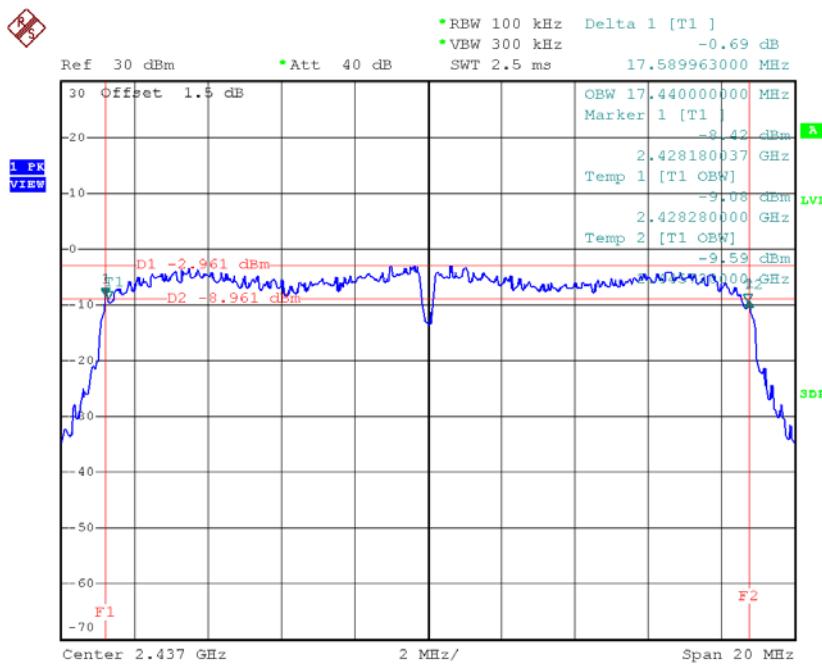
Test Mode : TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.44	500	Complies
2437	17.59	17.44	500	Complies
2462	17.60	17.44	500	Complies

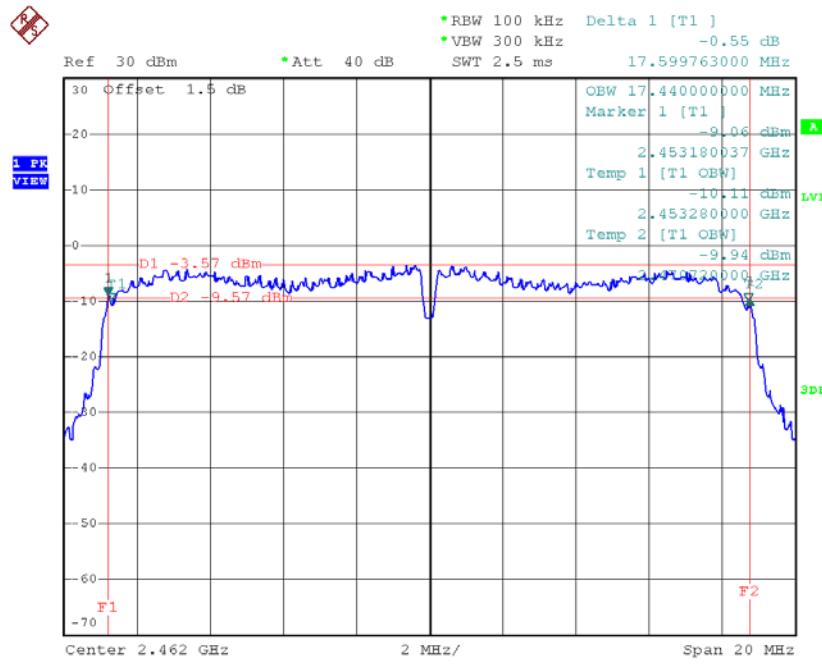
TX CH01



Date: 25.JUL.2018 20:18:38

TX CH06

Date: 25.JUL.2018 20:20:04

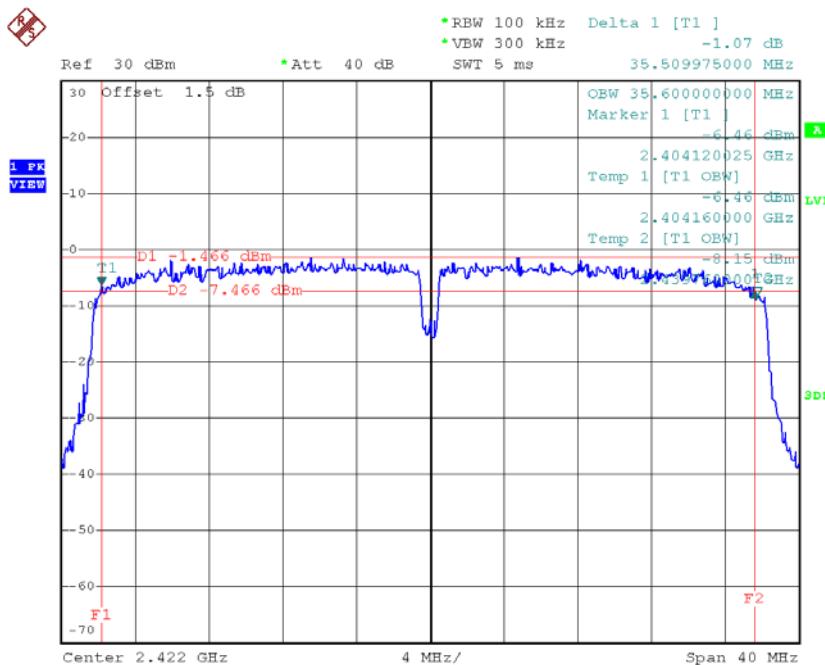
TX CH11

Date: 25.JUL.2018 20:22:28

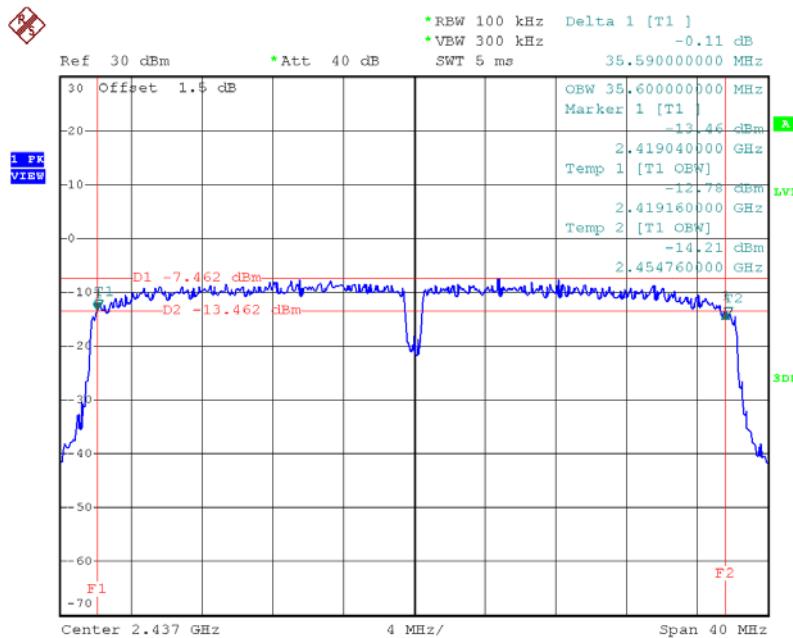
Test Mode : TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.51	35.60	500	Complies
2437	35.59	35.60	500	Complies
2452	35.40	35.60	500	Complies

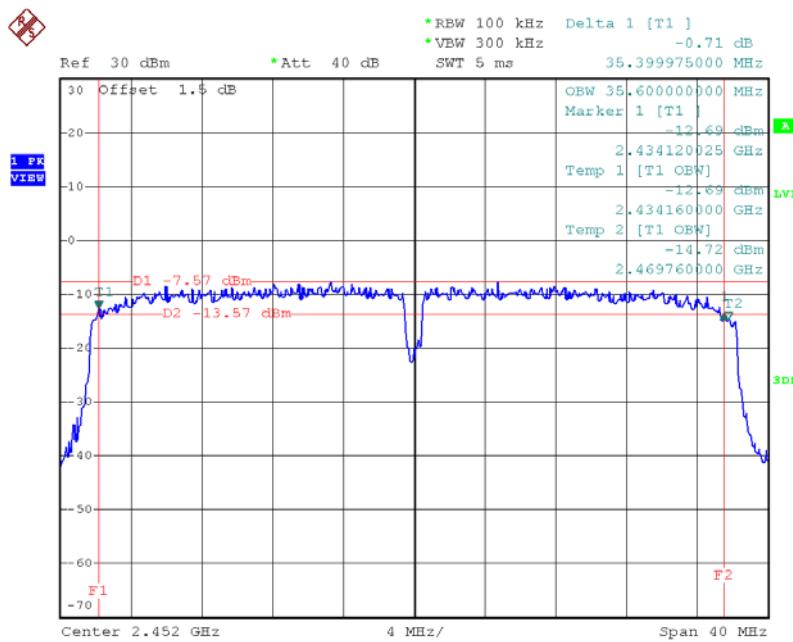
TX CH03



Date: 25.JUL.2018 20:24:20

TX CH06

Date: 25.JUL.2018 20:25:49

TX CH09

Date: 25.JUL.2018 20:27:03

APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Non-Beamforming**Test Mode :TX B Mode_CH01/06/11**

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	28.44	0.70	30.00	1.00	Complies
2437	28.45	0.70	30.00	1.00	Complies
2462	28.47	0.70	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	28.44	0.70	30.00	1.00	Complies
2437	28.42	0.70	30.00	1.00	Complies
2462	28.44	0.70	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.21	0.33	28.49	0.71	Complies
2437	25.24	0.33	28.49	0.71	Complies
2462	25.06	0.32	28.49	0.71	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	25.11	0.32	28.49	0.71	Complies
2437	25.21	0.33	28.49	0.71	Complies
2462	25.26	0.34	28.49	0.71	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	28.17	0.66	28.49	0.71	Complies
2437	28.24	0.67	28.49	0.71	Complies
2462	28.17	0.66	28.49	0.71	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	25.11	0.32	28.49	0.71	Complies
2437	24.93	0.31	28.49	0.71	Complies
2452	25.06	0.32	28.49	0.71	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	25.24	0.33	28.49	0.71	Complies
2437	25.45	0.35	28.49	0.71	Complies
2452	25.23	0.33	28.49	0.71	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	28.19	0.66	28.49	0.71	Complies
2437	28.21	0.66	28.49	0.71	Complies
2452	28.16	0.65	28.49	0.71	Complies

Beamforming

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.46	0.18	25.49	0.35	Complies
2437	22.51	0.18	25.49	0.35	Complies
2462	21.92	0.16	25.49	0.35	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	22.35	0.17	25.49	0.35	Complies
2437	21.93	0.16	25.49	0.35	Complies
2462	22.48	0.18	25.49	0.35	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	25.42	0.35	25.49	0.35	Complies
2437	25.24	0.33	25.49	0.35	Complies
2462	25.22	0.33	25.49	0.35	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	21.95	0.16	25.49	0.35	Complies
2437	21.95	0.16	25.49	0.35	Complies
2452	21.93	0.16	25.49	0.35	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	21.89	0.15	25.49	0.35	Complies
2437	22.75	0.19	25.49	0.35	Complies
2452	22.61	0.18	25.49	0.35	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total

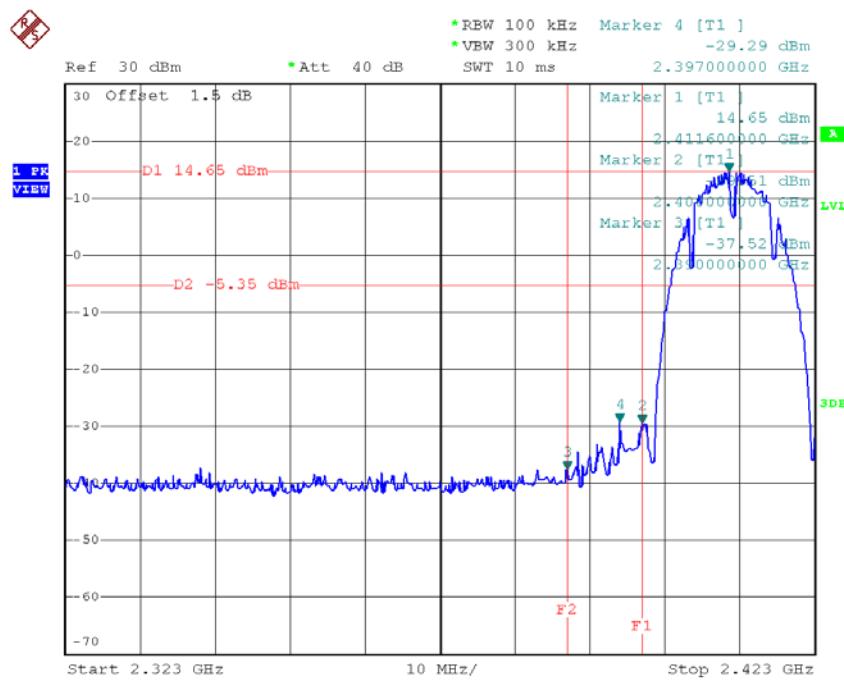
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	24.93	0.31	25.49	0.35	Complies
2437	25.38	0.35	25.49	0.35	Complies
2452	25.29	0.34	25.49	0.35	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

Non-Beamforming

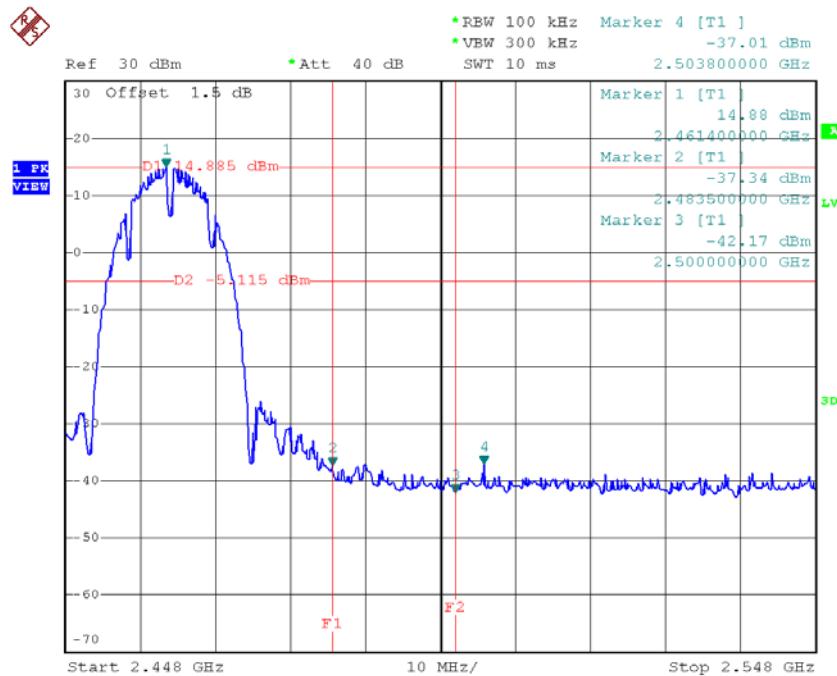
Test Mode : TX B Mode

TX B mode CH01



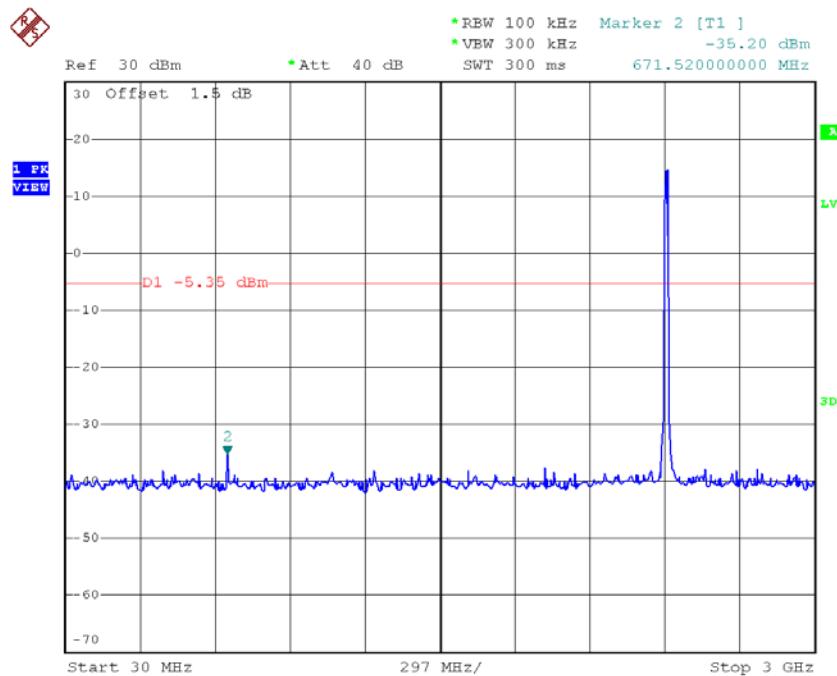
Date: 25.JUL.2018 18:39:25

TX B mode CH11

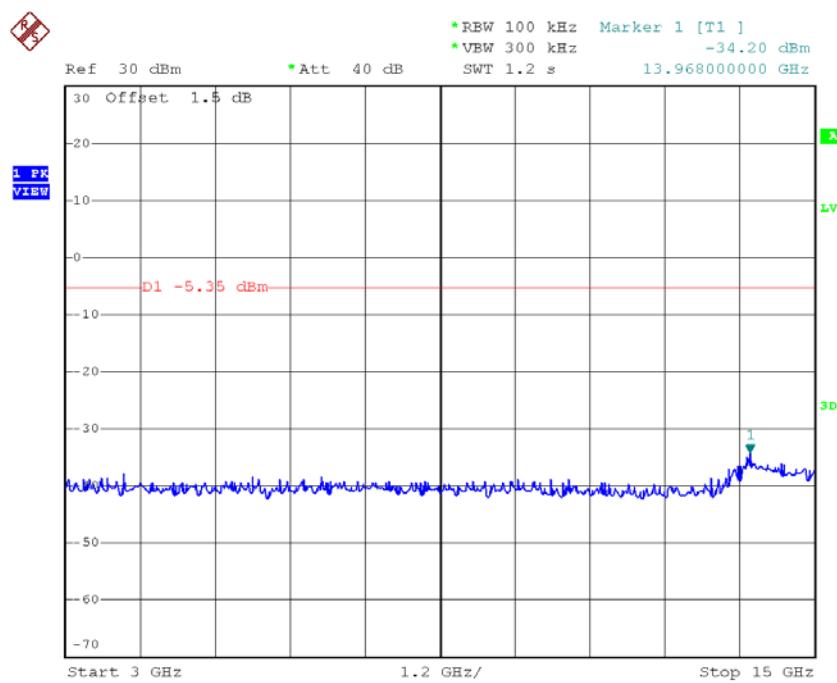


Date: 25.JUL.2018 18:45:00

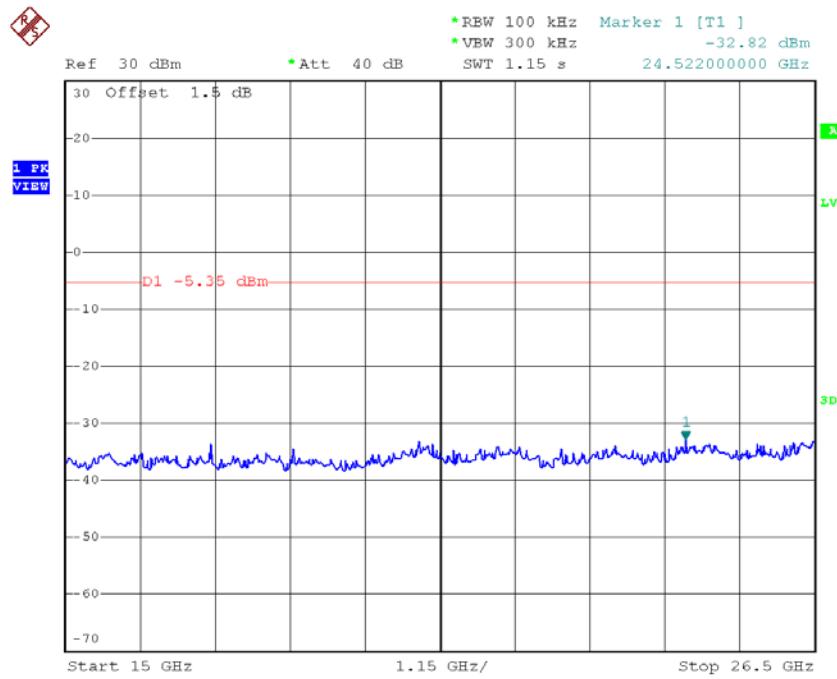
TX B mode CH01 (10 Harmonic of the frequency)



Date: 25.JUL.2018 18:39:39

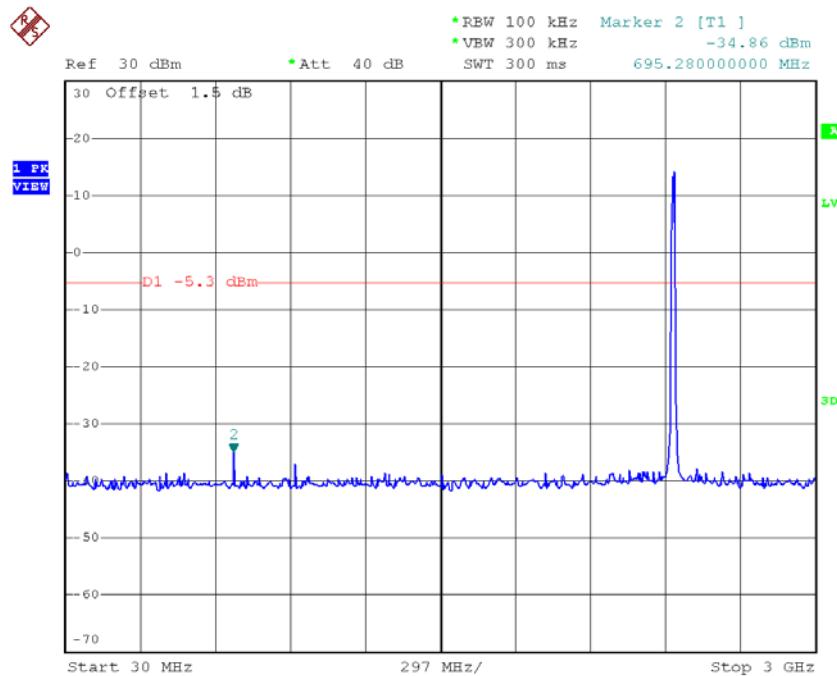


Date: 25.JUL.2018 18:39:47

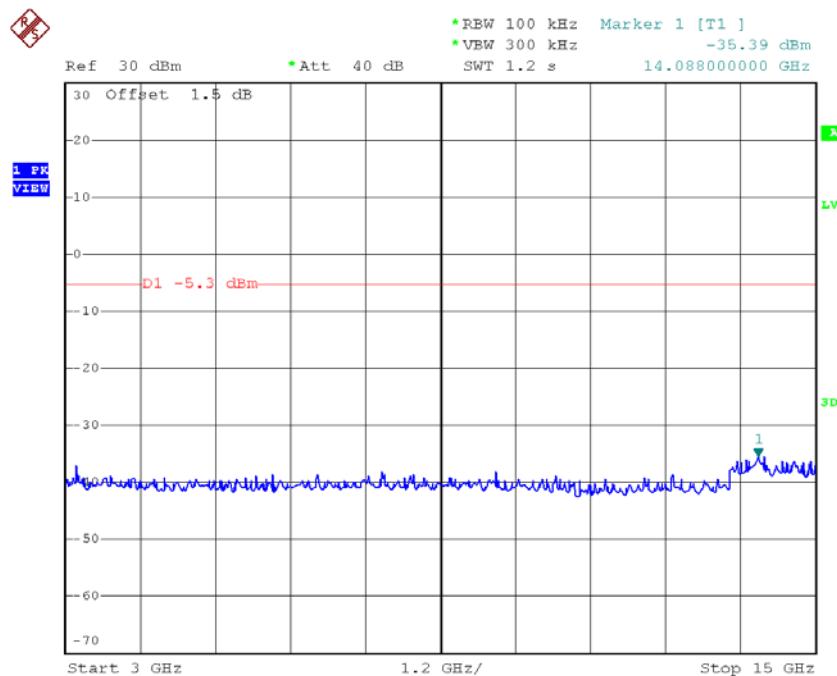


Date: 25.JUL.2018 18:39:56

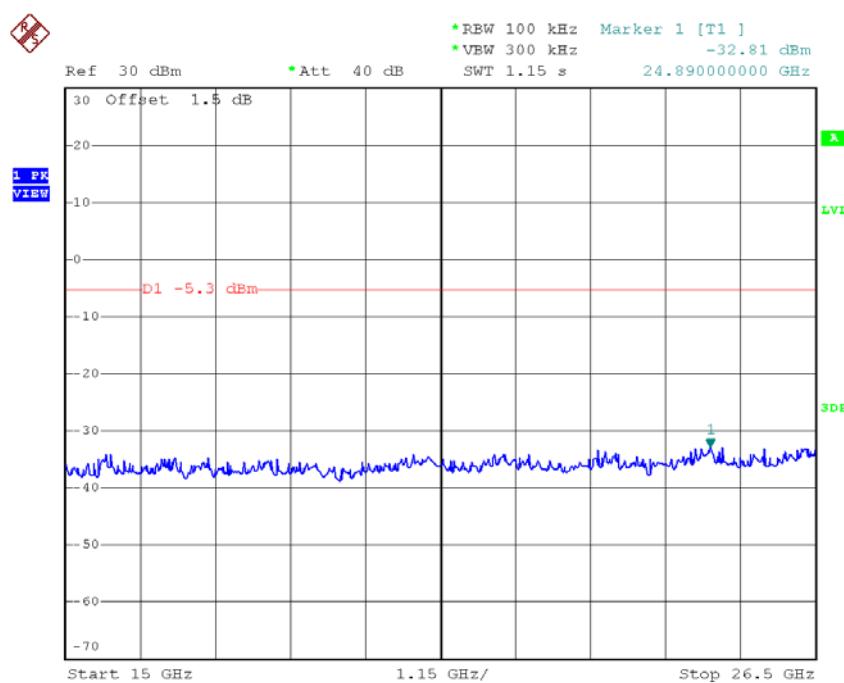
TX B mode CH06 (10 Harmonic of the frequency)



Date: 25.JUL.2018 18:42:43

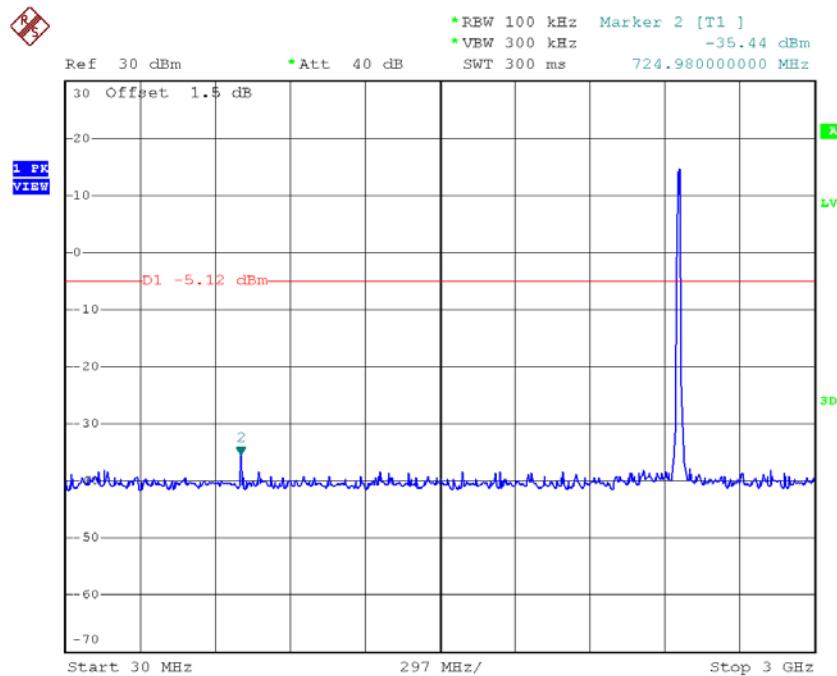


Date: 25.JUL.2018 18:42:51

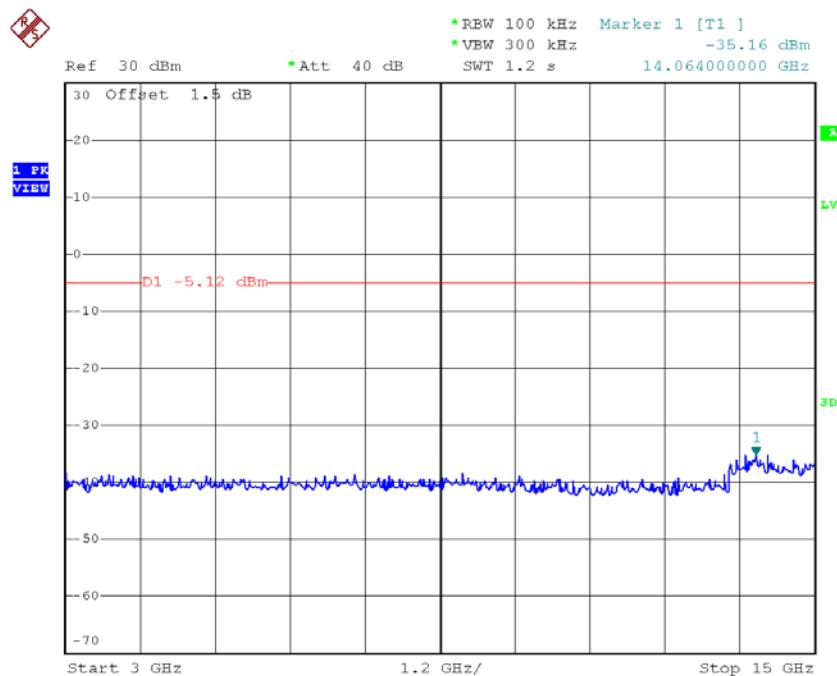


Date: 25.JUL.2018 18:43:00

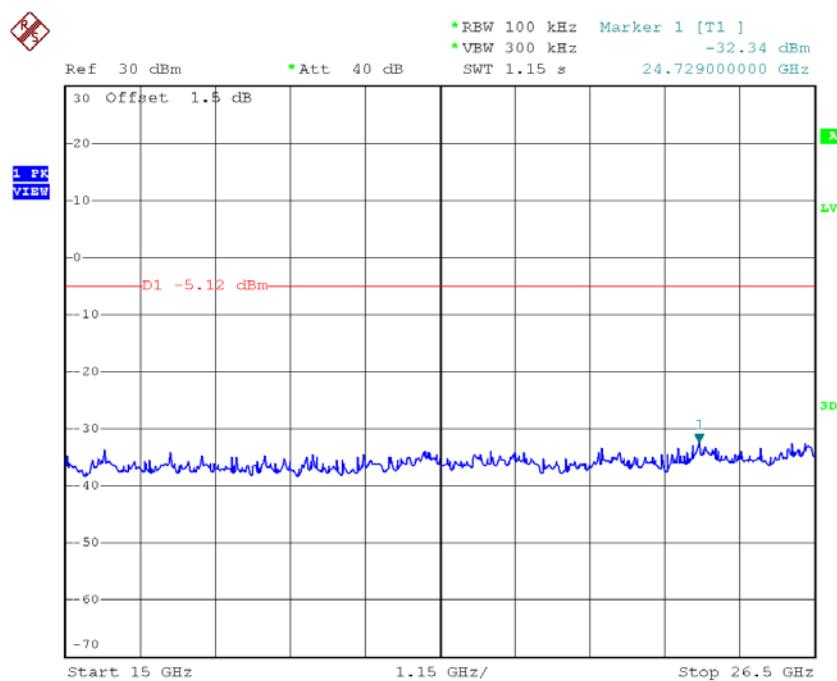
TX B mode CH11 (10 Harmonic of the frequency)



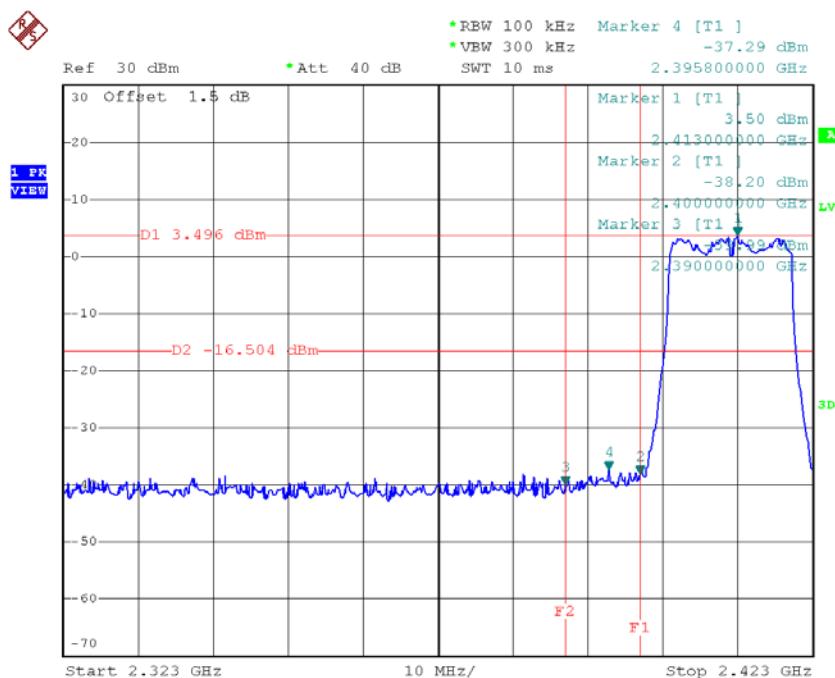
Date: 25.JUL.2018 18:45:14



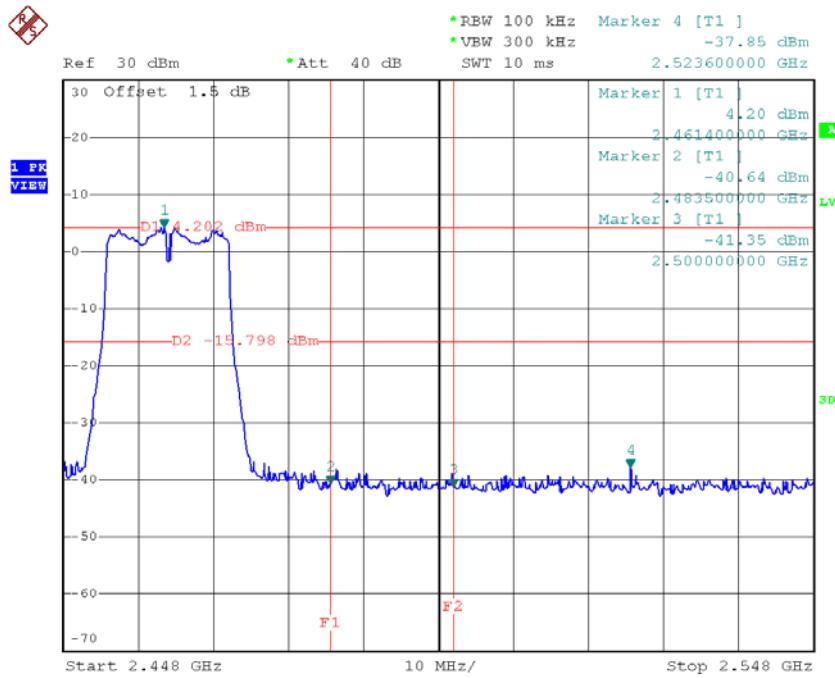
Date: 25.JUL.2018 18:45:22



Date: 25.JUL.2018 18:45:31

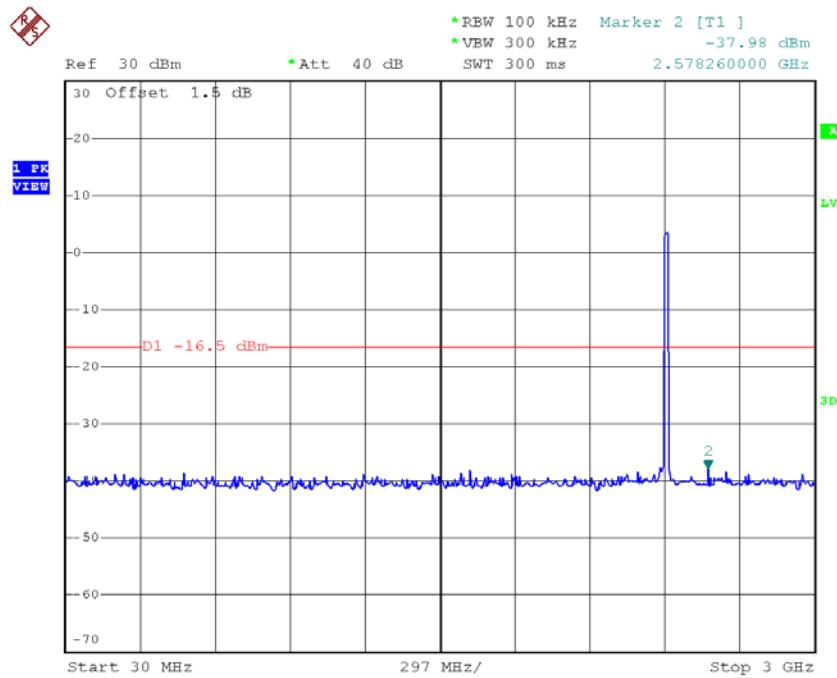
Test Mode : TX G Mode**TX G mode CH01**

Date: 25.JUL.2018 18:47:36

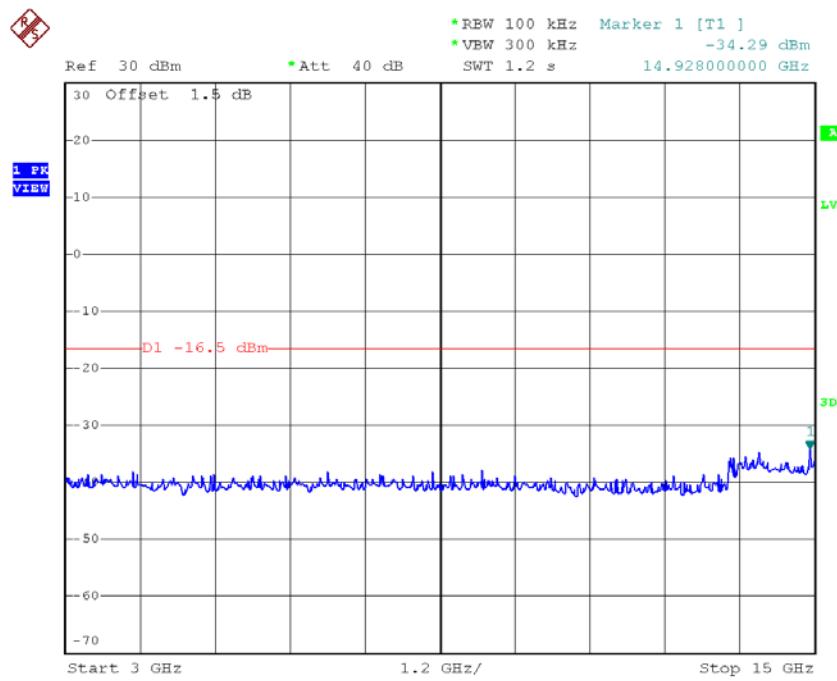
TX G mode CH11

Date: 25.JUL.2018 18:55:29

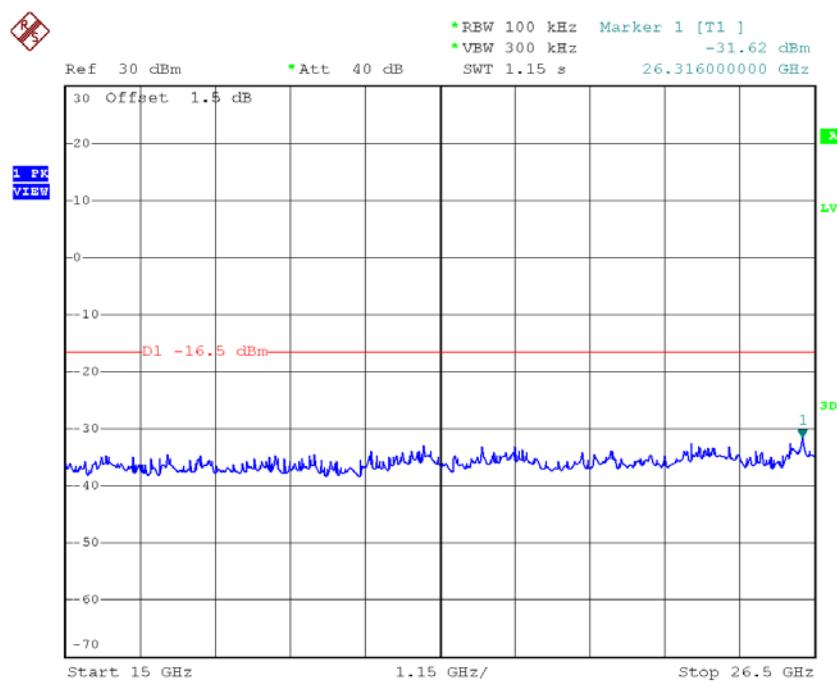
TX G mode CH01 (10 Harmonic of the frequency)



Date: 25.JUL.2018 18:47:50

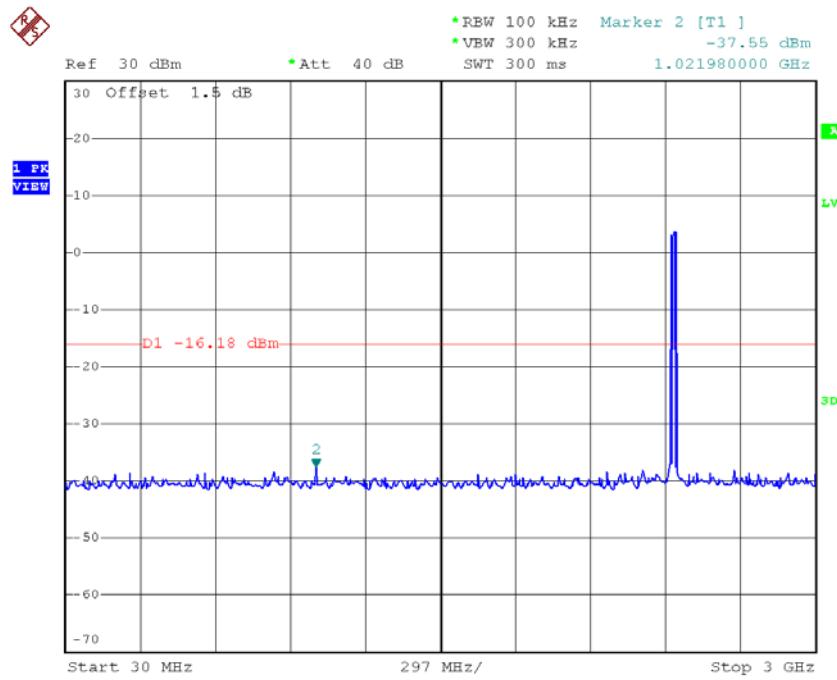


Date: 25.JUL.2018 18:47:58

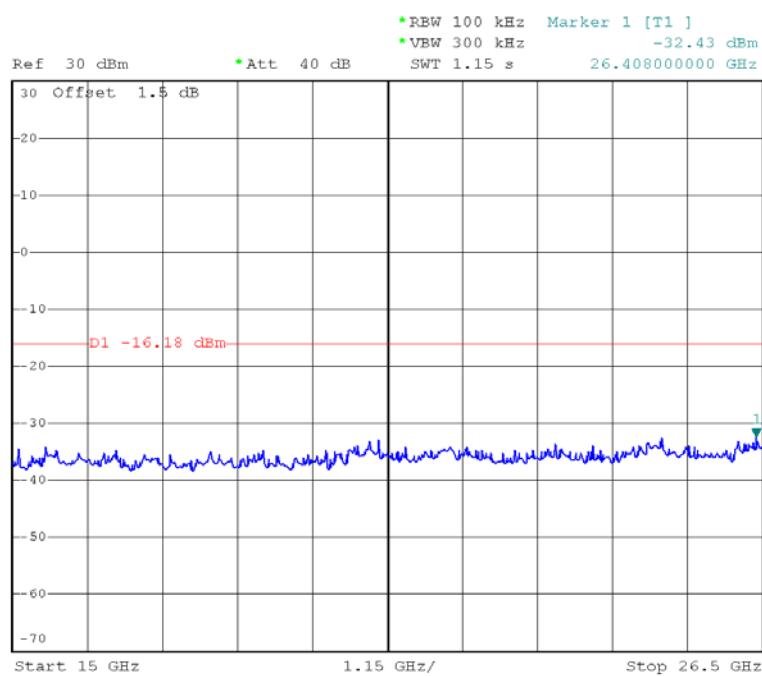
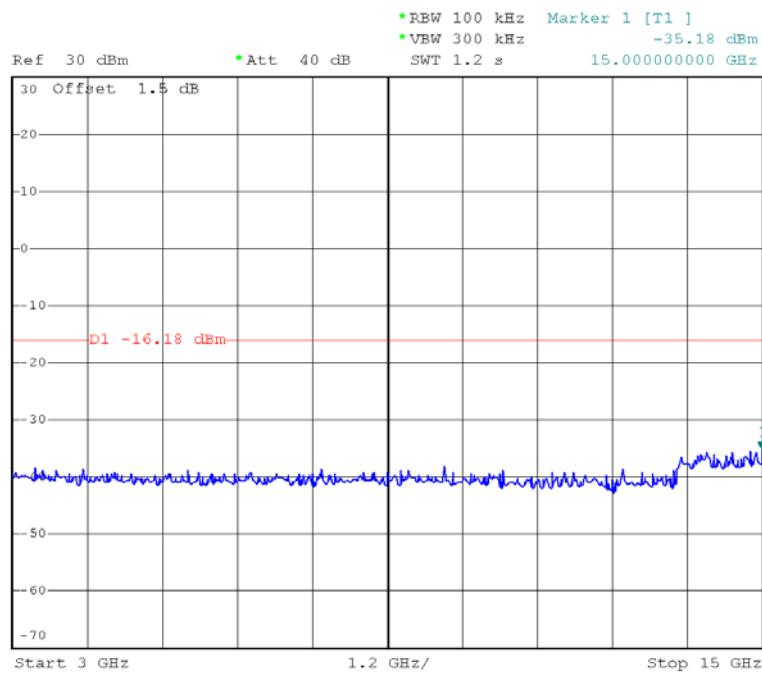


Date: 25.JUL.2018 18:48:07

TX G mode CH06 (10 Harmonic of the frequency)

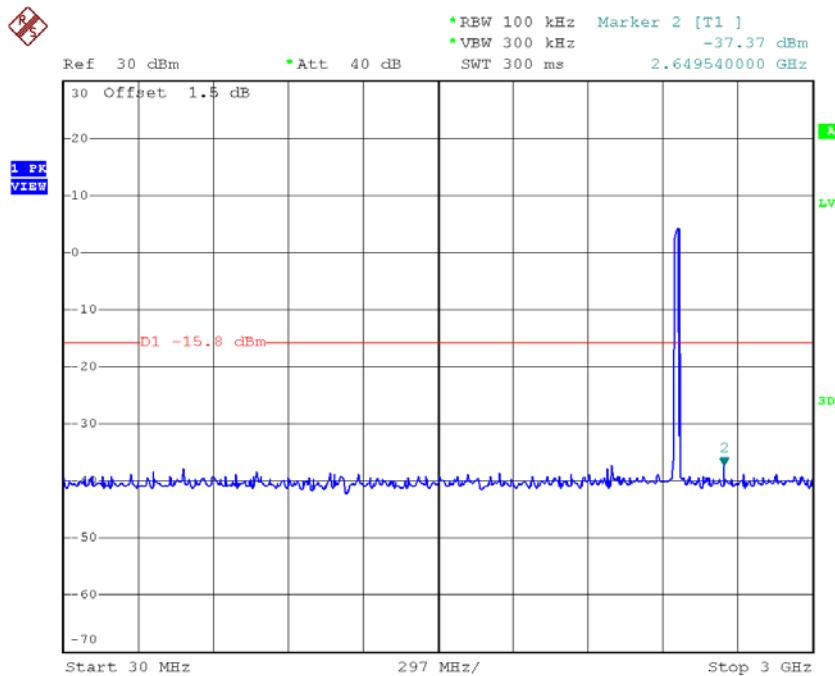


Date: 25.JUL.2018 18:49:19

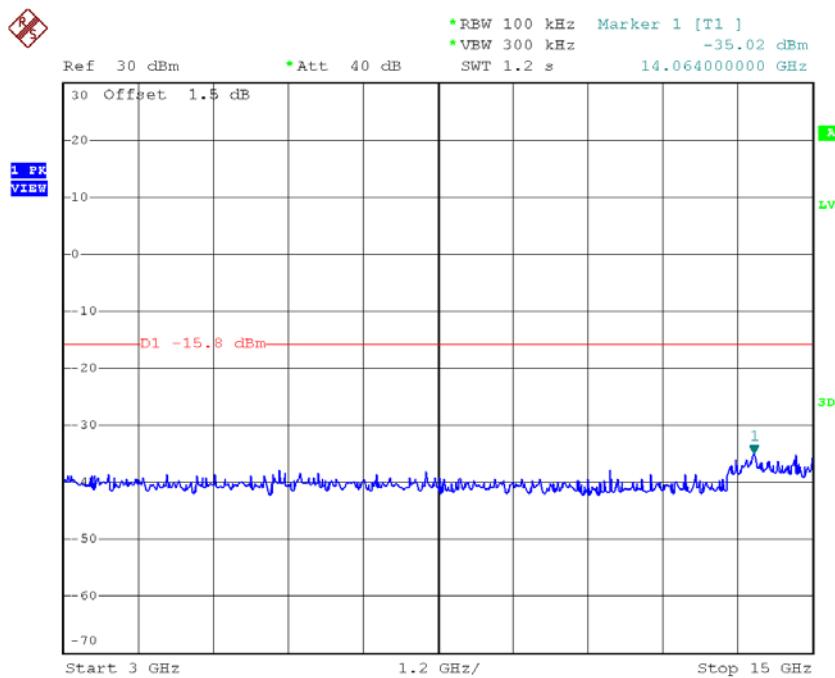


Date: 25.JUL.2018 18:49:36

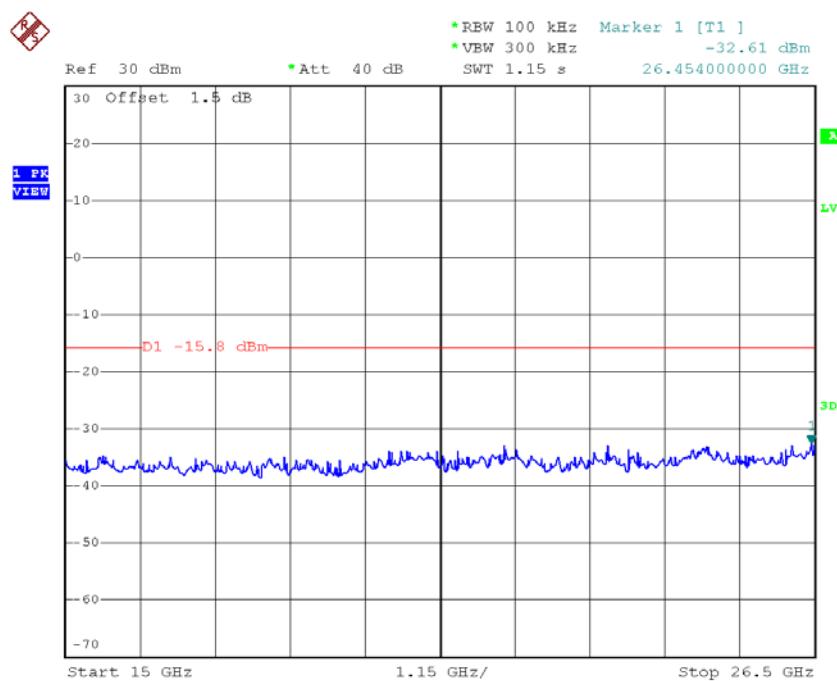
TX G mode CH11 (10 Harmonic of the frequency)



Date: 25.JUL.2018 18:55:43



Date: 25.JUL.2018 18:55:51

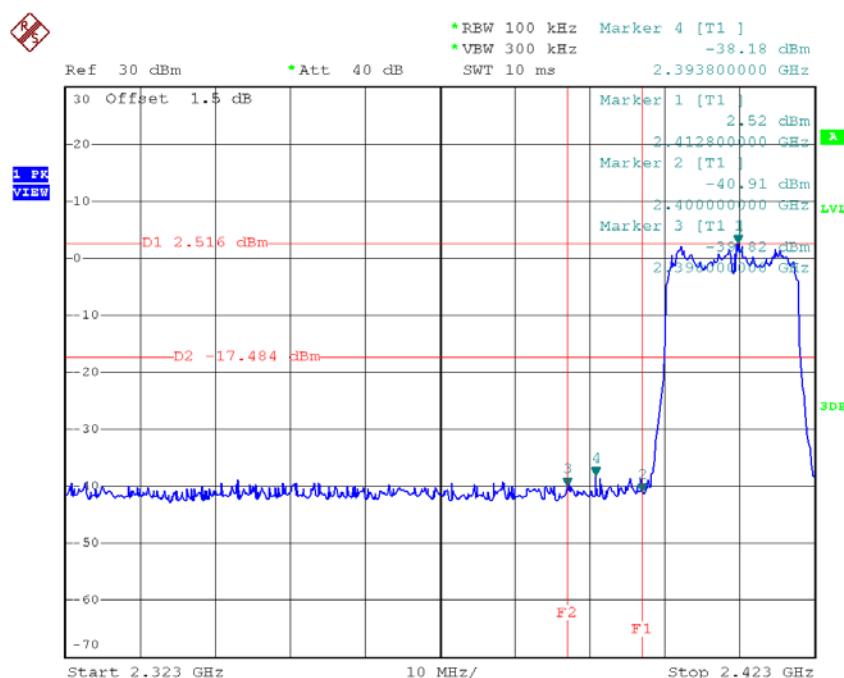


Date: 25.JUL.2018 18:56:00

Non-Beamforming

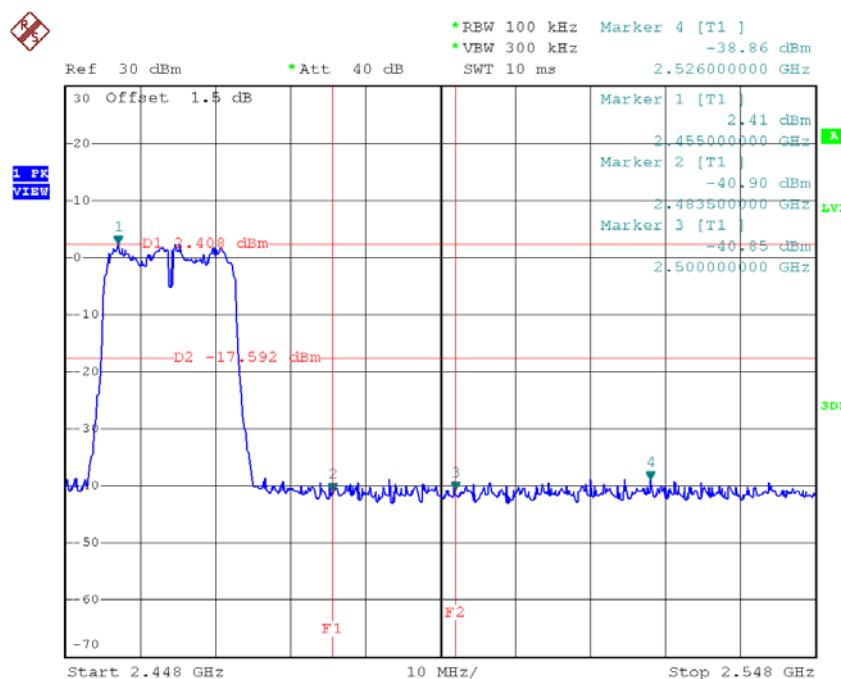
Test Mode : TX N-20M Mode_ANT 1

TX HT20 mode CH01



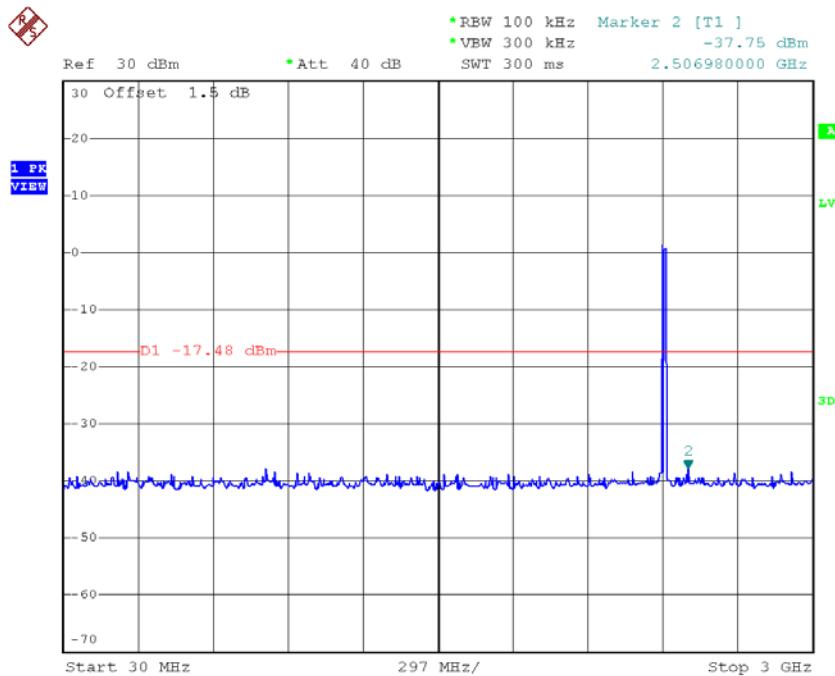
Date: 25.JUL.2018 18:57:31

TX HT20 mode CH11

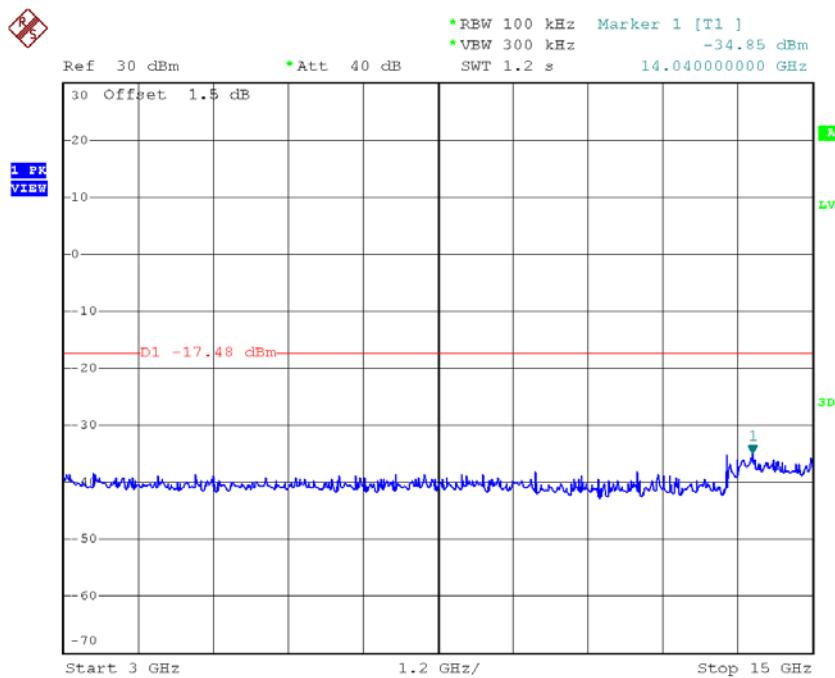


Date: 25.JUL.2018 19:00:36

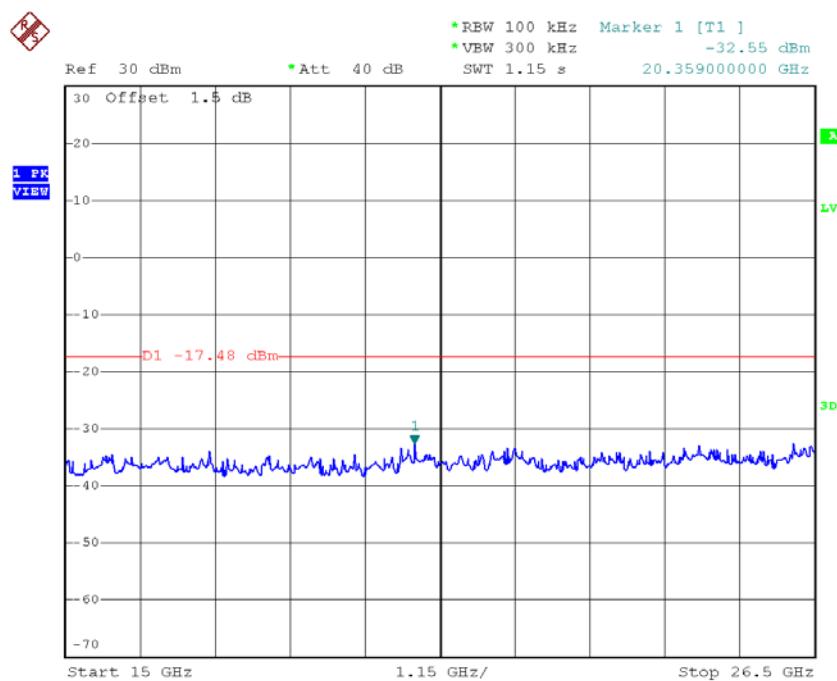
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 25.JUL.2018 18:57:45

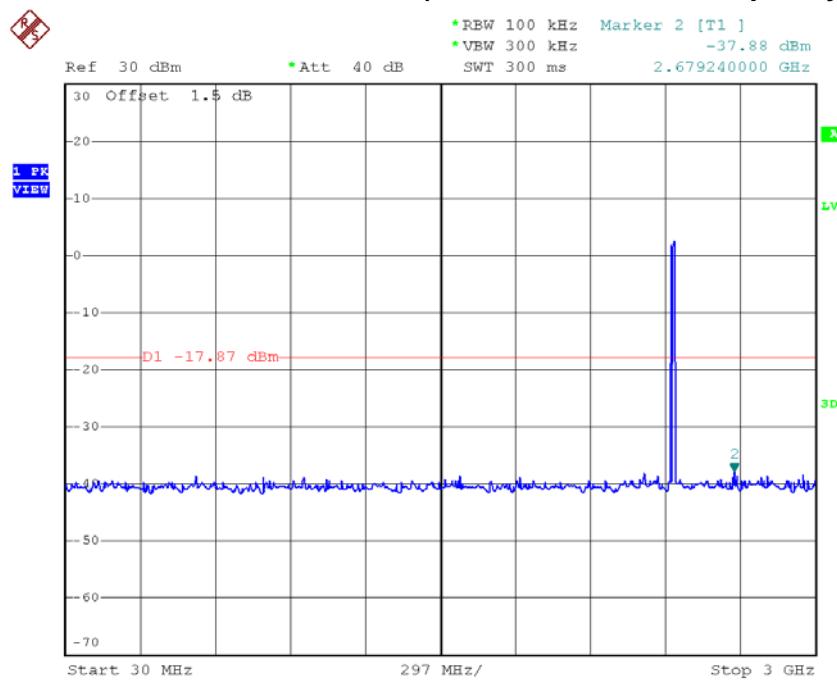


Date: 25.JUL.2018 18:57:53

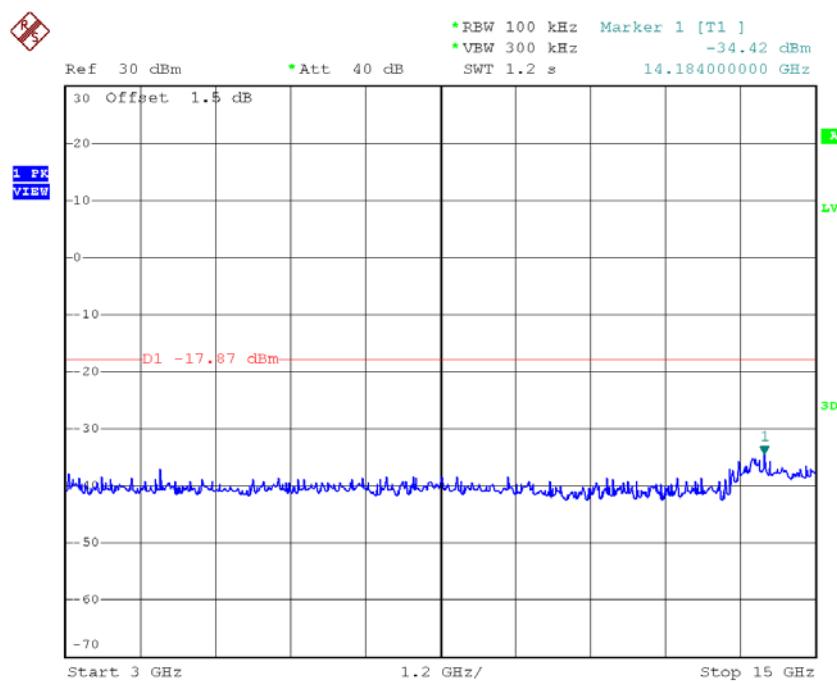


Date: 25.JUL.2018 18:58:02

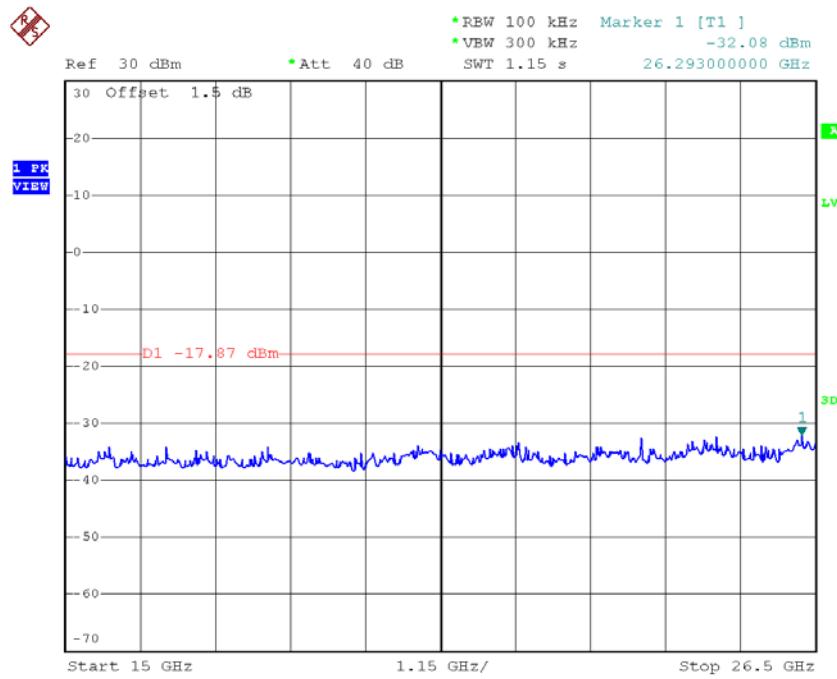
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 25.JUL.2018 18:59:29

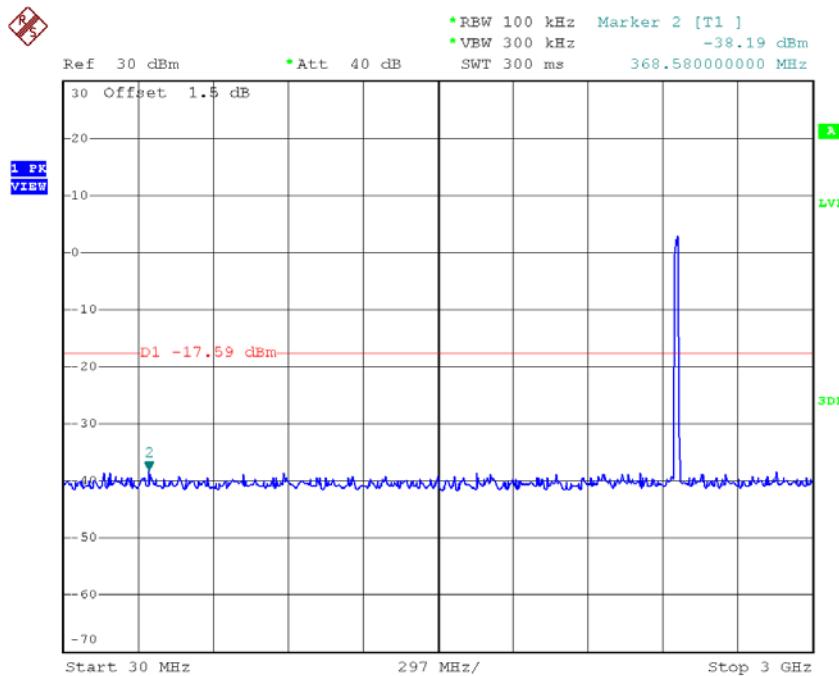


Date: 25.JUL.2018 18:59:37

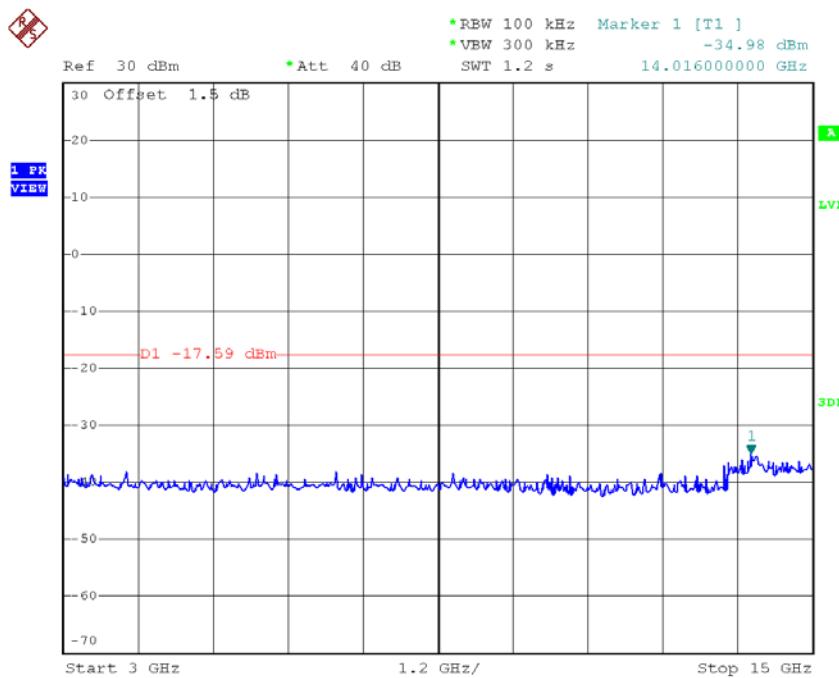


Date: 25.JUL.2018 18:59:45

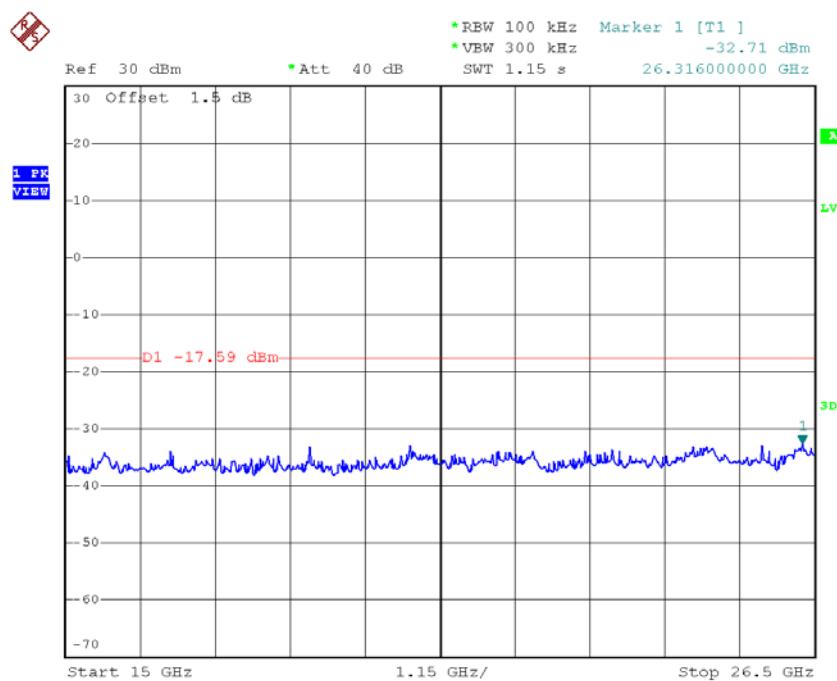
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 25.JUL.2018 19:00:50



Date: 25.JUL.2018 19:00:59



Date: 25.JUL.2018 19:01:07