

FCC Radio Test Report

FCC ID: T58WF2166R

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

Project No. : 1408C128
Equipment : AC1200 Wireless Dual Band PCI-E Adapter
Model Name : WF2166
Applicant : NETIS SYSTEMS CO., LTD
Address : 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.

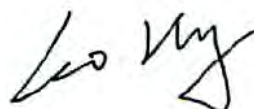
Date of Receipt : Aug. 14, 2014
Date of Test : Aug. 14, 2014~ Sep. 02, 2014
Issued Date : Sep. 03, 2014
Tested by : BTL Inc.

Testing Engineer :



(David Mao)

Technical Manager :



(Leo Hung)

Authorized Signatory :



(Steven Lu)

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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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-1-1408C128	Original Issue.	Sep. 03, 2014

1. CERTIFICATION

Equipment : AC1200 Wireless Dual Band PCI-E Adapter
Brand Name : netis
Model Name : WF2166
Applicant : NETIS SYSTEMS CO., LTD
Manufacturer : Shenzhen Netcore Industrial Ltd.
Address : 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.
Factory : Dongguan City Netcore Network Technology Co.,Ltd.
Address : No.10-1,Sankeng Road,Qinghutou,Tangxia Town,Dongguan City
Date of Test : Aug. 14, 2014~ Sep. 02, 2014
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C: 2013 (15.247) / ANSI C63.4-2009

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-1-1408C128) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2013			
Standard(s) Section	Test Item	Judgment	Remark
FCC			
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Wireless Dual Band PCI-E Adapter	
Brand Name	netis	
Model Name	WF2166	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 21.33dBm 802.11g: 22.56dBm 802.11n(20MHz): 23.33dBm 802.11n(40MHz): 23.15dBm
Power Source	Supplied from PC System.	
Power Rating	AC 120V 60Hz	

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		RF21S00014A	Dipole	N/A	4.87
2		RF21S00014A	Dipole	N/A	4.87

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}** , that is Directional gain=4.87.

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

Note:

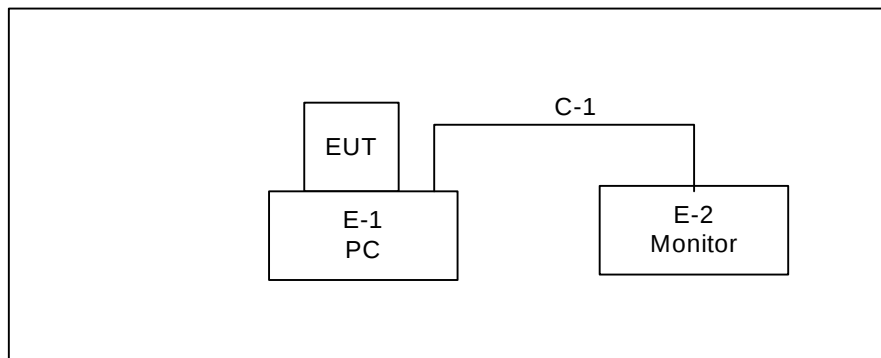
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For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

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	MPtool		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	53	53	47
IEEE 802.11g OFDM	52	57	50
IEEE 802.11n (20MHz)	50	55	48
Frequency	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	51	55	46

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/IC	Series No.	Note
E-1	PC	Dell 745	DCSM	DOC	G7K832X	
E-2	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180-6AG-1WNS	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5M	D-Sub 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 -0.5	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

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

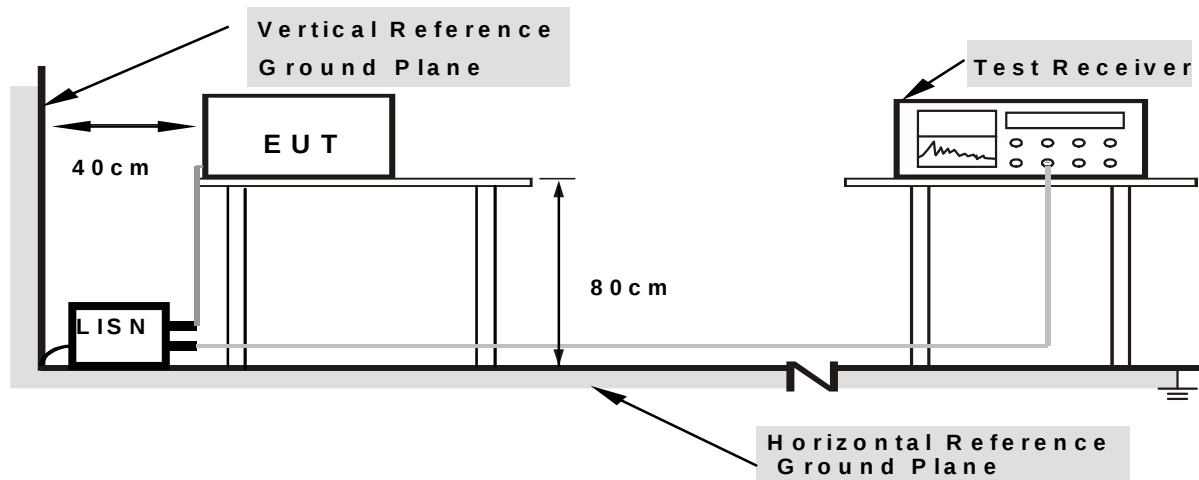
4.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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 configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. 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).

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

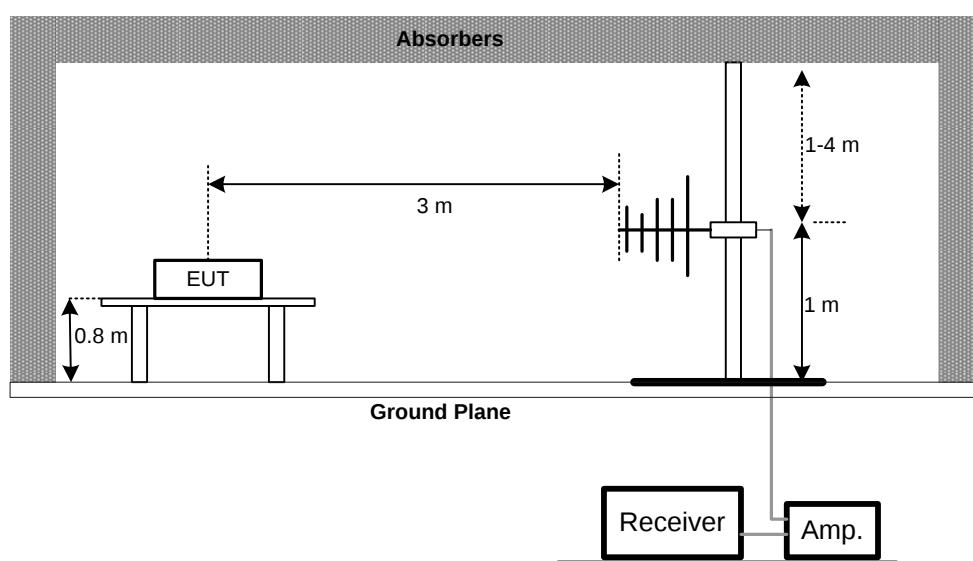
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-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 0.8 m; 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.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

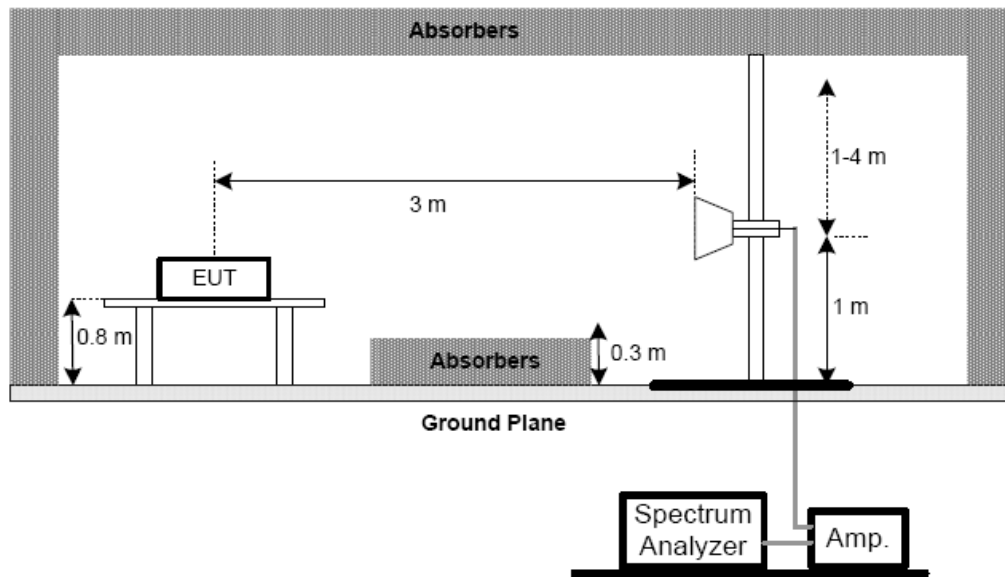
No deviation

4.2.4 TEST SETUP

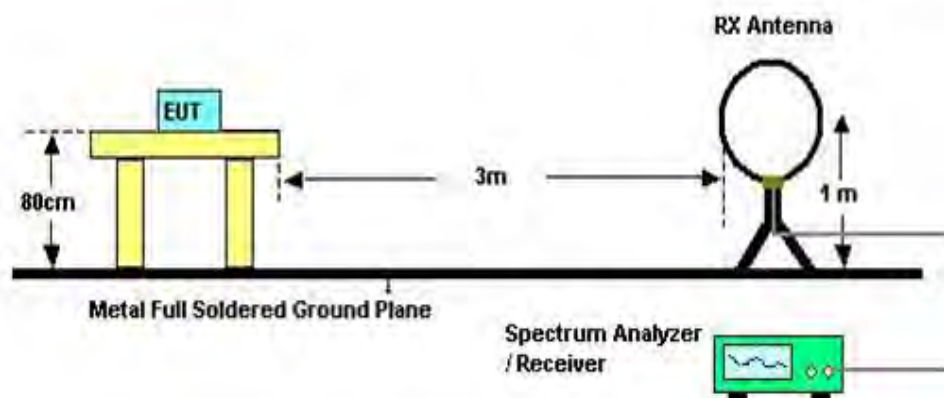
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

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 tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM 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 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing. Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

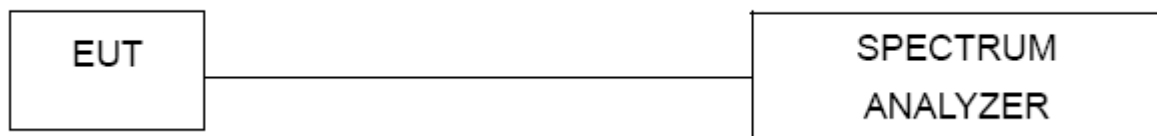
7.1.1 TEST PROCEDURE

- 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.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

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

8.1.1 TEST PROCEDURE

- 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 tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EMCO	3142C	00066462	Mar. 29, 2015
2	Antenna	EMCO	3142C	00066464	Mar. 29, 2015
3	Amplifier	Agilent	8447D	2944A11203	Nov. 11, 2014
4	Amplifier	Agilent	8447D	2944A11204	Nov. 11, 2014
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 11, 2014
6	RF Pre-selector	Agilent	N9039A	MY46520201	Nov. 11, 2014
7	Test Cable	N/A	Cable_5m_8m 15m	N/A	Jan. 14, 2015
8	Test Cable	N/A	Cable_5m_11 m_15m	N/A	Jan. 14, 2015
9	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
10	RF Pre-selector	Agilent	N9039A	MY46520214	Nov. 11, 2014
11	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
12	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015
13	Amplifier	Agilent	8449B	3008A02584	Nov. 11, 2014
14	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
15	Test Cable	Huber+Suhner	SUCOFLEX_1 5m_4m	N/A	Jan. 14, 2015

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

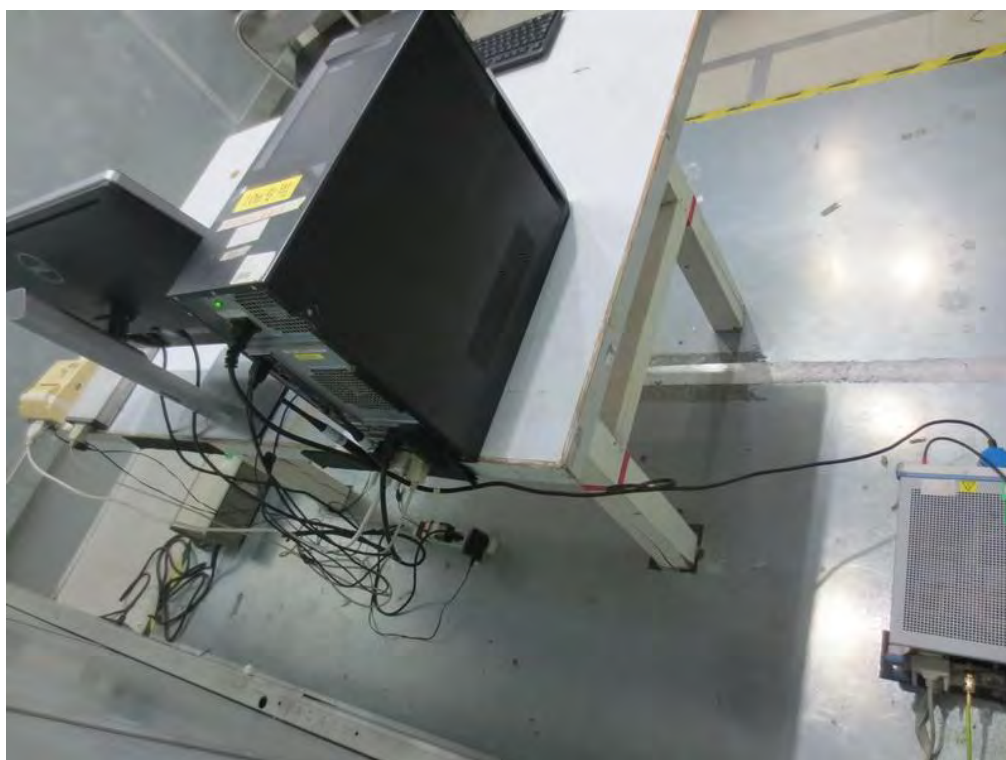
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

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

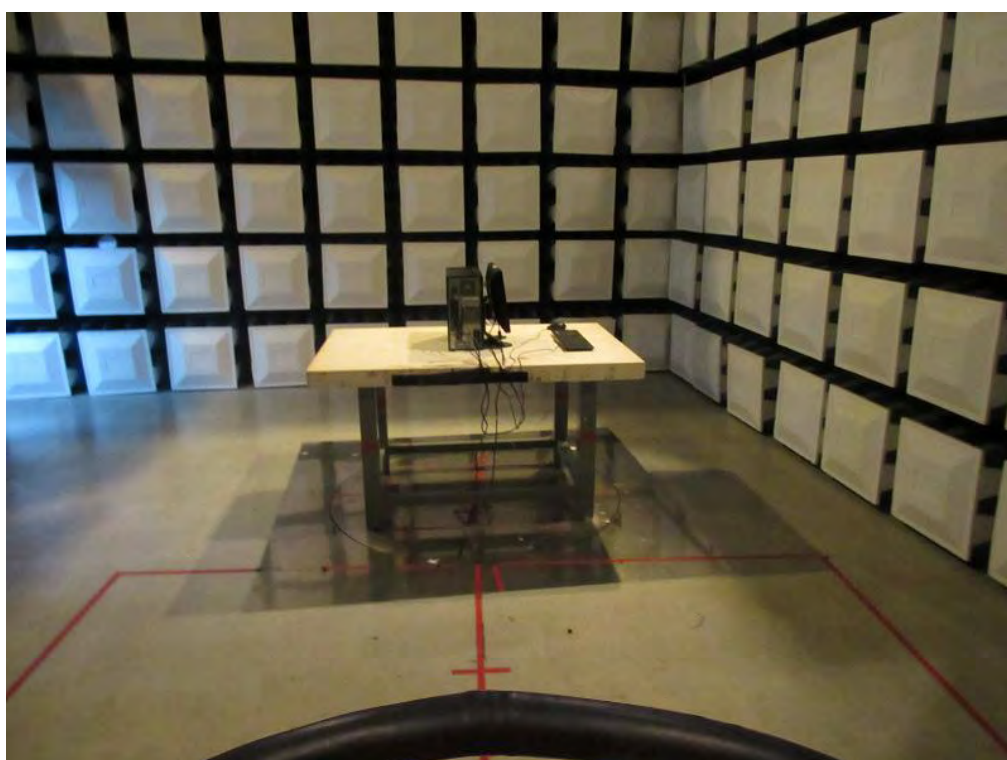
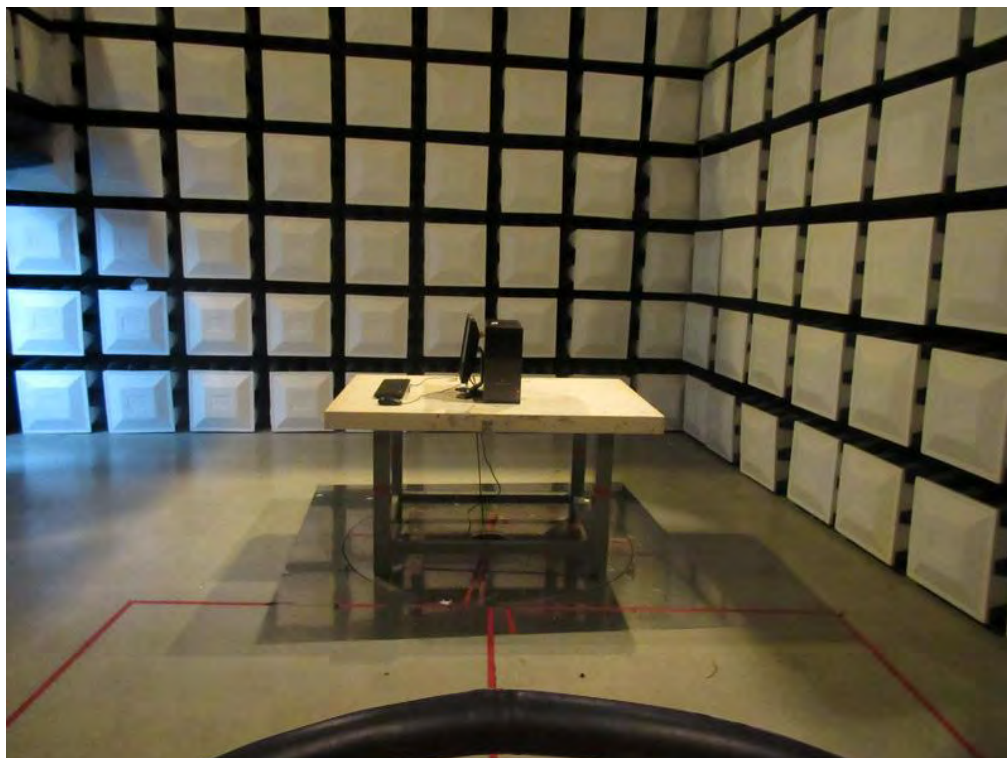
10. EUT TEST PHOTO

Conducted Measurement Photos



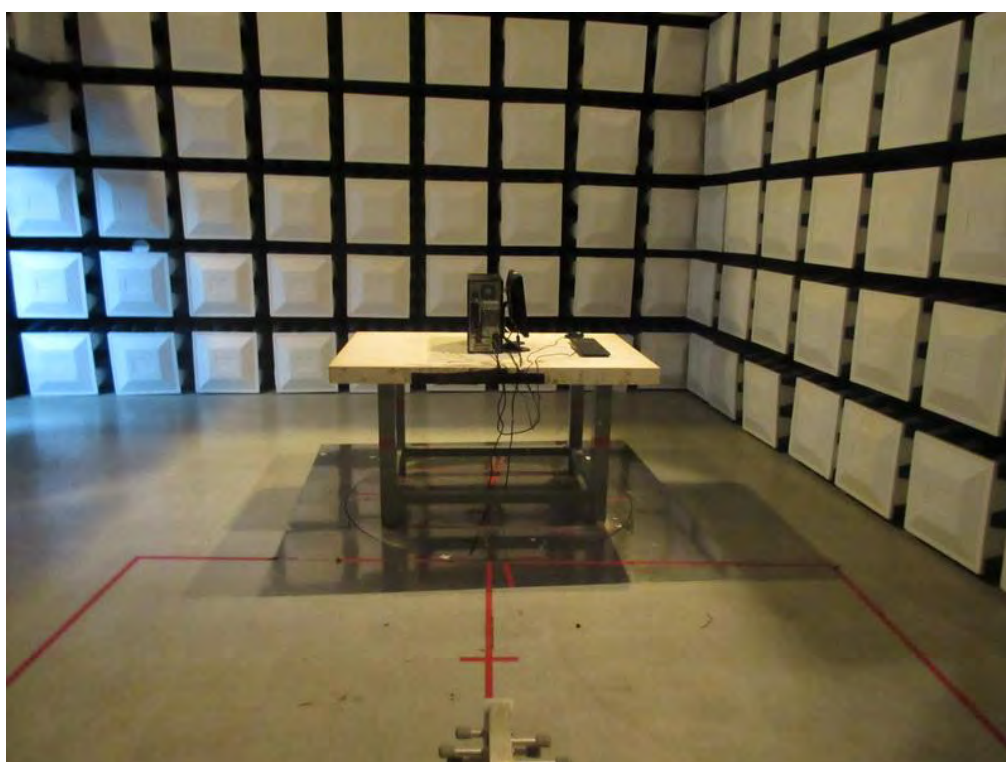
Radiated Measurement Photos

9KHz to 30MHz



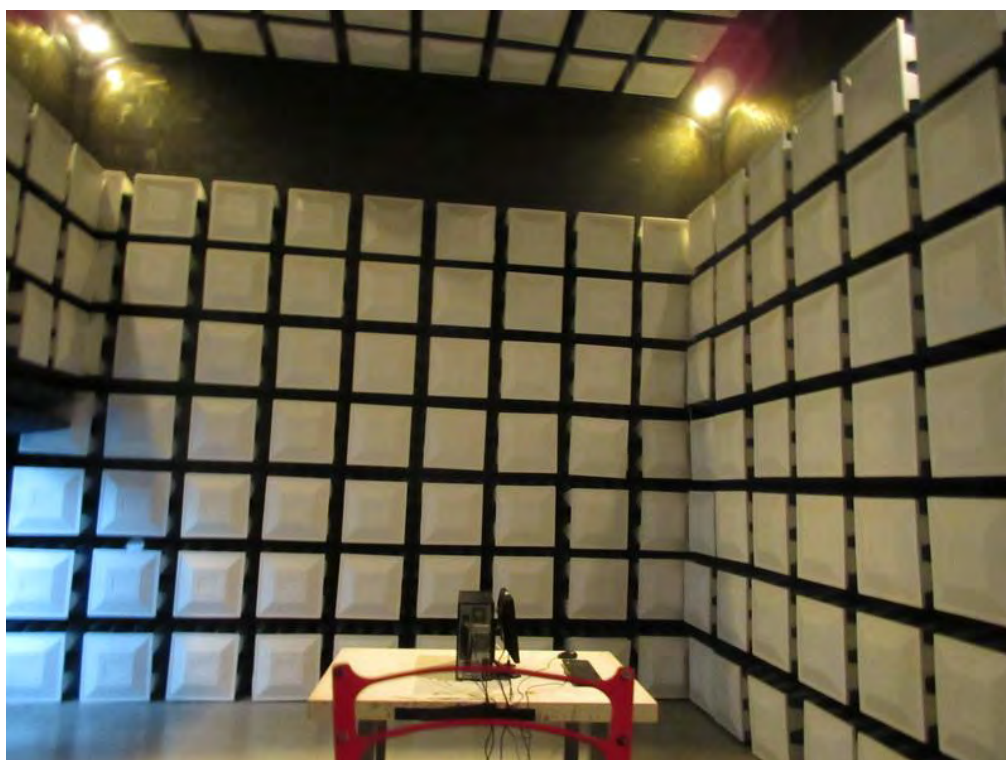
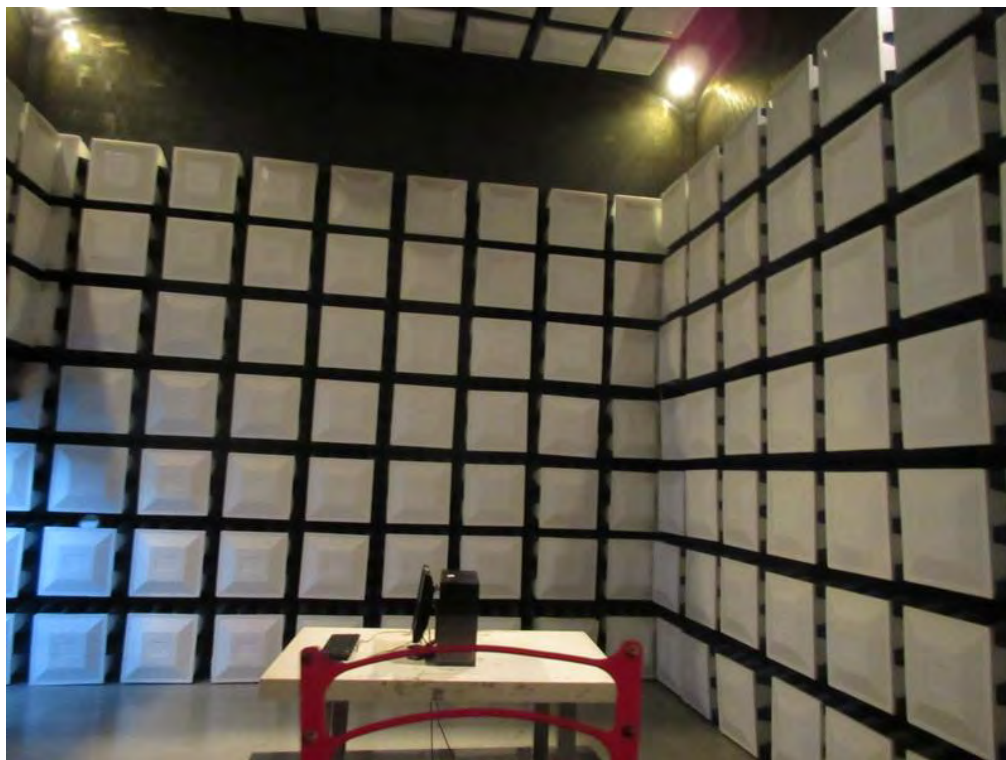
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

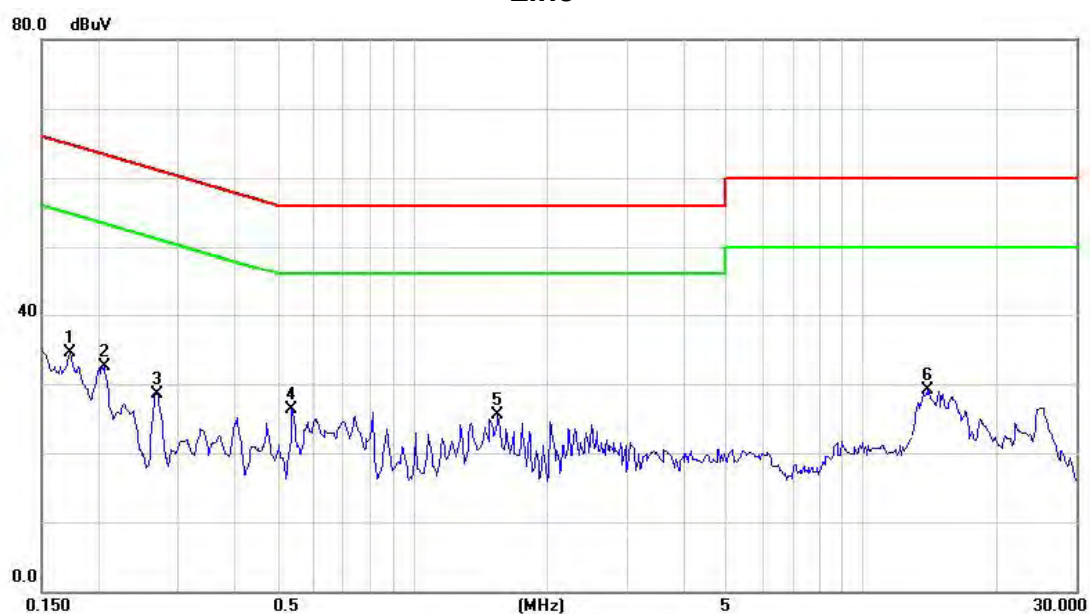
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

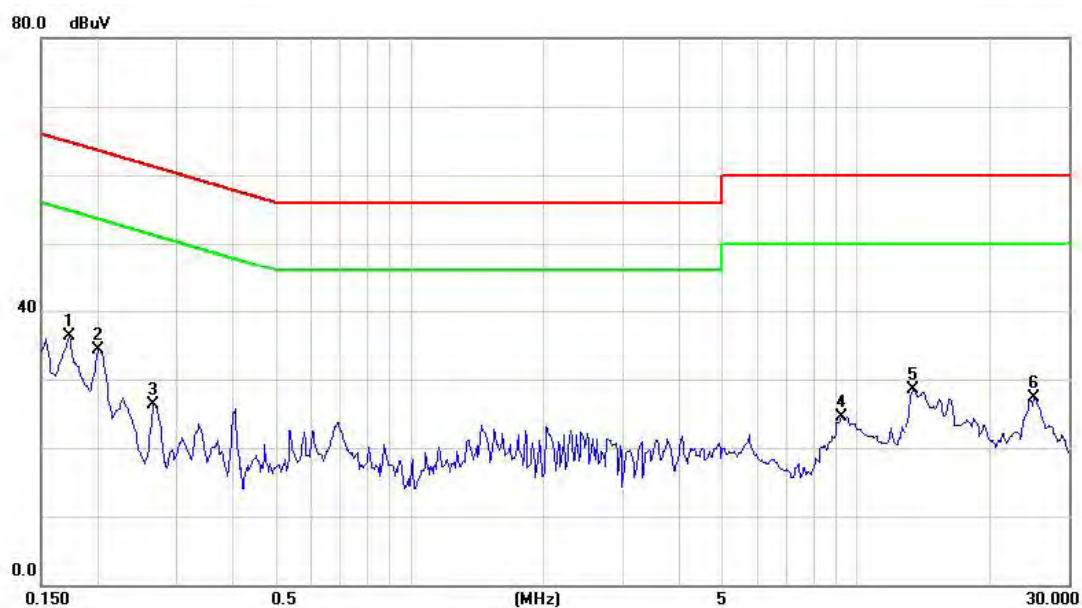
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1733	34.50	0.07	34.57	64.80	-30.23	peak	
2		0.2061	32.40	0.07	32.47	63.36	-30.89	peak	
3		0.2710	28.44	0.08	28.52	61.09	-32.57	peak	
4	*	0.5404	26.16	0.10	26.26	56.00	-29.74	peak	
5		1.5562	25.34	0.17	25.51	56.00	-30.49	peak	
6		13.9885	28.47	0.59	29.06	60.00	-30.94	peak	

Test Mode : TX MODE

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1733	36.16	0.07	36.23	64.80	-28.57	peak	
2		0.2006	34.28	0.07	34.35	63.59	-29.24	peak	
3		0.2671	26.16	0.08	26.24	61.21	-34.97	peak	
4		9.2615	24.10	0.48	24.58	60.00	-35.42	peak	
5		13.4530	27.98	0.58	28.56	60.00	-31.44	peak	
6		25.0780	26.56	0.80	27.36	60.00	-32.64	peak	

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

Test Mode: TX Mode 2412MHz

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0158	0°	13.43	24.58	37.99	103.74	-65.75	AVG
0.0158	0°	14.28	24.58	38.84	123.74	-84.90	PEAK
0.0310	0°	6.10	23.60	30.40	97.75	-67.35	AVG
0.0310	0°	8.05	23.60	31.60	117.75	-86.15	PEAK
0.0384	0°	4.32	23.13	27.43	95.90	-68.47	AVG
4.0000	0°	5.76	23.13	28.83	115.90	-87.07	PEAK
0.0471	0°	3.15	22.59	25.71	94.16	-68.45	AVG
0.0471	0°	4.72	22.59	27.37	114.16	-86.79	PEAK
2.0605	0°	28.76	19.46	48.17	69.54	-21.37	QP
3.3737	0°	20.39	18.94	39.31	69.54	-30.23	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0154	90°	13.12	24.30	37.48	123.80	-86.32	AVG
0.0154	90°	14.19	24.30	38.47	143.80	-105.33	PEAK
0.0315	90°	6.81	23.60	30.47	117.75	-87.28	AVG
0.0315	90°	7.83	23.60	31.39	137.75	-106.36	PEAK
0.0372	90°	5.92	23.20	29.13	116.17	-87.04	AVG
0.0372	90°	6.87	23.20	30.04	136.17	-106.13	PEAK
0.0430	90°	5.11	22.59	27.73	114.16	-86.43	AVG
0.0473	90°	6.07	22.59	28.68	134.16	-105.48	PEAK
2.0608	90°	29.68	19.46	49.09	69.54	-20.45	QP
3.2845	90°	17.15	18.93	36.05	69.54	-33.49	QP

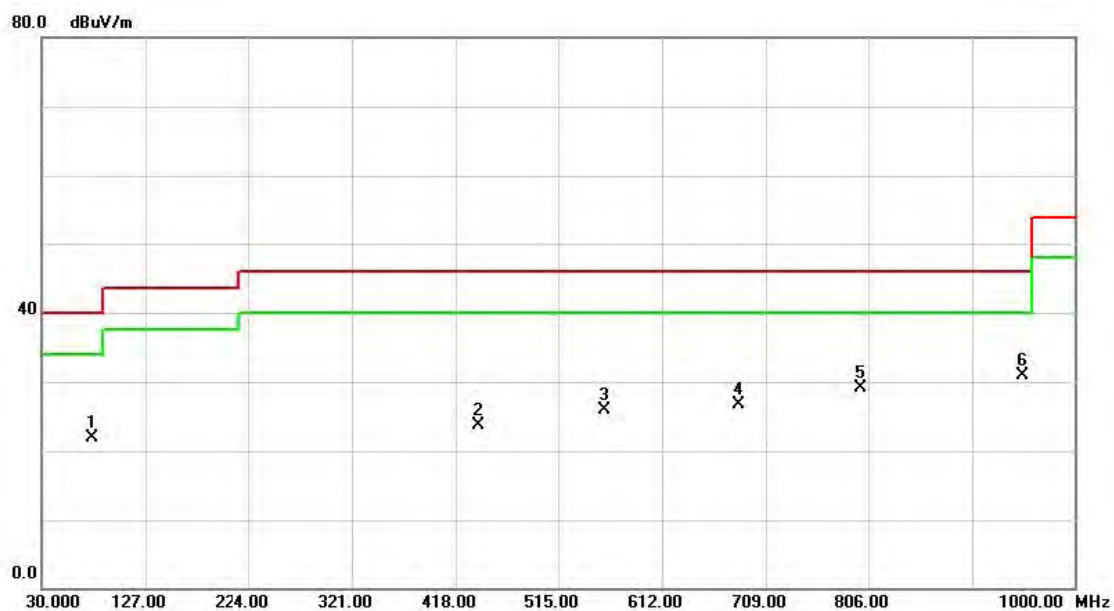
Remark:

- (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.

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

Test Mode:	TX B MODE CHANNEL 01
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Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		76.5600	36.65	-14.79	21.86	40.00	-18.14	peak	
2		439.3400	29.87	-6.17	23.70	46.00	-22.30	peak	
3		557.6800	29.00	-3.19	25.81	46.00	-20.19	peak	
4		683.7800	27.81	-1.17	26.64	46.00	-19.36	peak	
5		798.2400	27.38	1.73	29.11	46.00	-16.89	peak	
6	*	950.5300	28.20	2.69	30.89	46.00	-15.11	peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	204.6000	46.24	-13.92	32.32	43.50	-11.18	peak	
2		298.6900	39.53	-9.64	29.89	46.00	-16.11	peak	
3		547.9800	28.96	-3.06	25.90	46.00	-20.10	peak	
4		700.2700	28.57	-0.85	27.72	46.00	-18.28	peak	
5		792.4200	27.97	1.40	29.37	46.00	-16.63	peak	
6		950.5300	29.16	2.69	31.85	46.00	-14.15	peak	

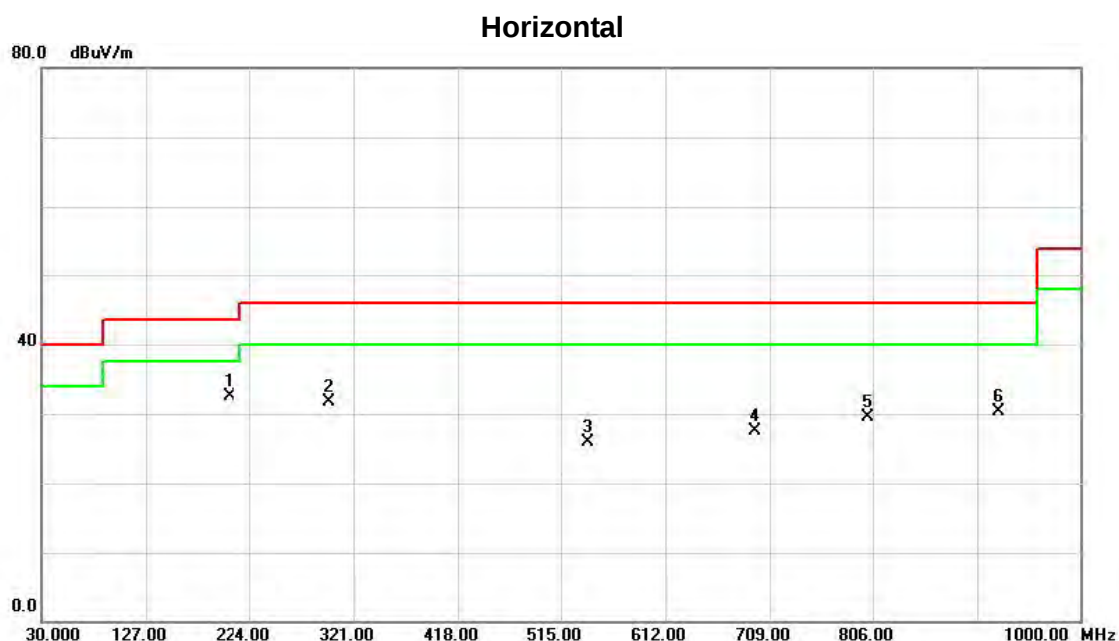
Test Mode:	TX B MODE CHANNEL 06
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Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	203.6300	44.18	-13.96	30.22	43.50	-13.28	peak	
2		534.4000	34.84	-4.33	30.51	46.00	-15.49	peak	
3		694.4500	28.79	-0.96	27.83	46.00	-18.17	peak	
4		827.3400	29.40	0.50	29.90	46.00	-16.10	peak	
5		889.4200	26.97	2.95	29.92	46.00	-16.08	peak	
6		937.9200	27.95	2.99	30.94	46.00	-15.06	peak	

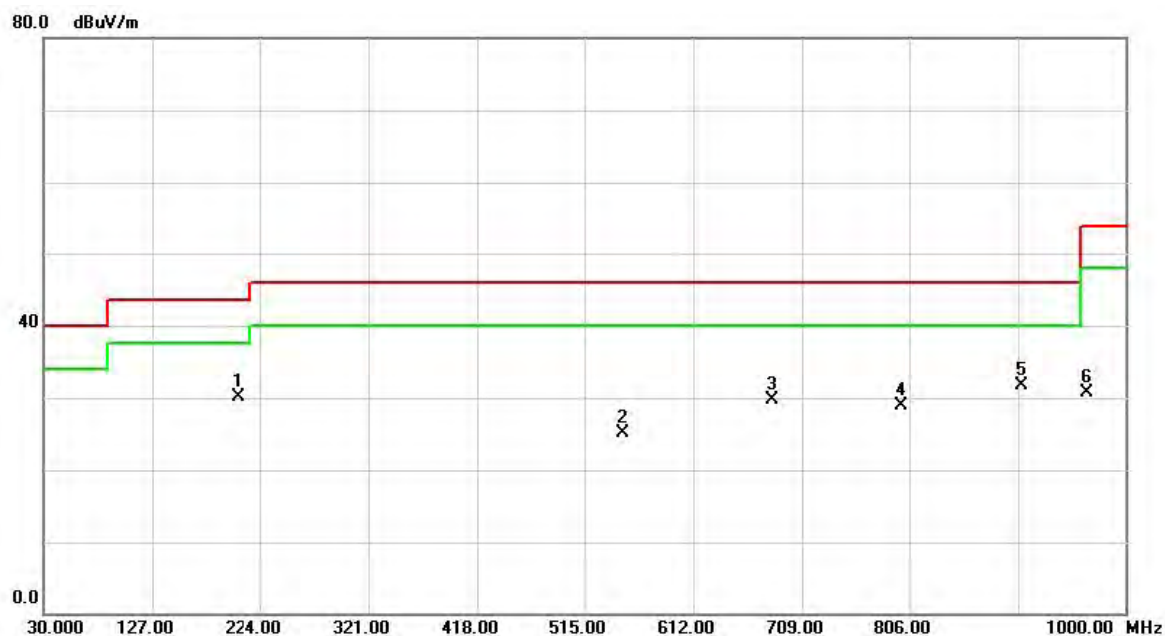
Test Mode:	TX B MODE CHANNEL 06
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	204.6000	46.40	-13.92	32.48	43.50	-11.02	peak	
2		298.6900	41.40	-9.64	31.76	46.00	-14.24	peak	
3		540.2200	29.62	-3.79	25.83	46.00	-20.17	peak	
4		695.4200	28.47	-0.94	27.53	46.00	-18.47	peak	
5		801.1500	27.73	1.78	29.51	46.00	-16.49	peak	
6		923.3700	26.87	3.35	30.22	46.00	-15.78	peak	

Test Mode: TX B MODE CHANNEL 11

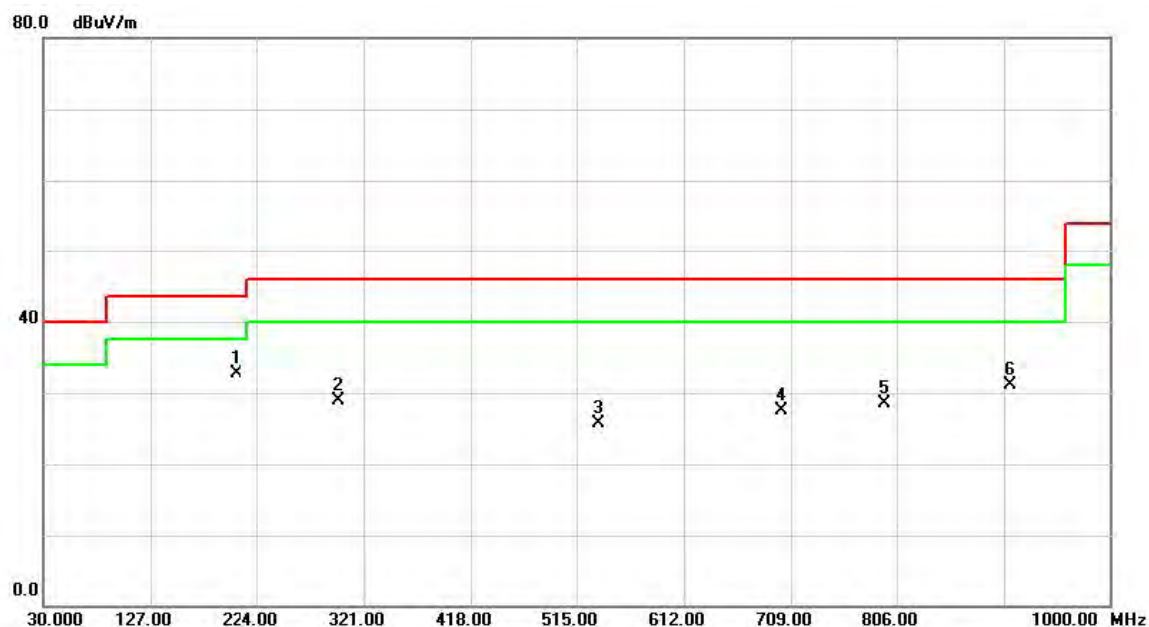
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	203.6300	44.06	-13.96	30.10	43.50	-13.40	peak	
2		548.9500	28.10	-2.96	25.14	46.00	-20.86	peak	
3		682.8100	30.82	-1.19	29.63	46.00	-16.37	peak	
4		798.2400	27.11	1.73	28.84	46.00	-17.16	peak	
5		905.9100	27.95	3.77	31.72	46.00	-14.28	peak	
6		964.1100	28.18	2.61	30.79	54.00	-23.21	peak	

Test Mode:	TX B MODE CHANNEL 11
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Horizontal

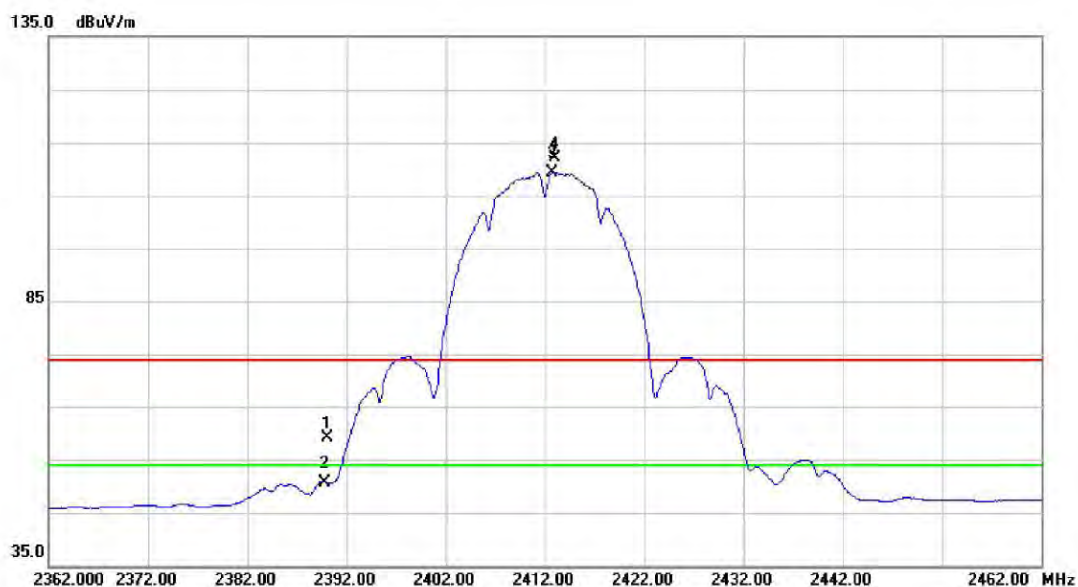


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	204.6000	46.53	-13.92	32.61	43.50	-10.89	peak	
2		298.6900	38.61	-9.64	28.97	46.00	-17.03	peak	
3		534.4000	30.03	-4.33	25.70	46.00	-20.30	peak	
4		700.2700	28.37	-0.85	27.52	46.00	-18.48	peak	
5		794.3600	27.01	1.51	28.52	46.00	-17.48	peak	
6		908.8200	27.44	3.69	31.13	46.00	-14.87	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

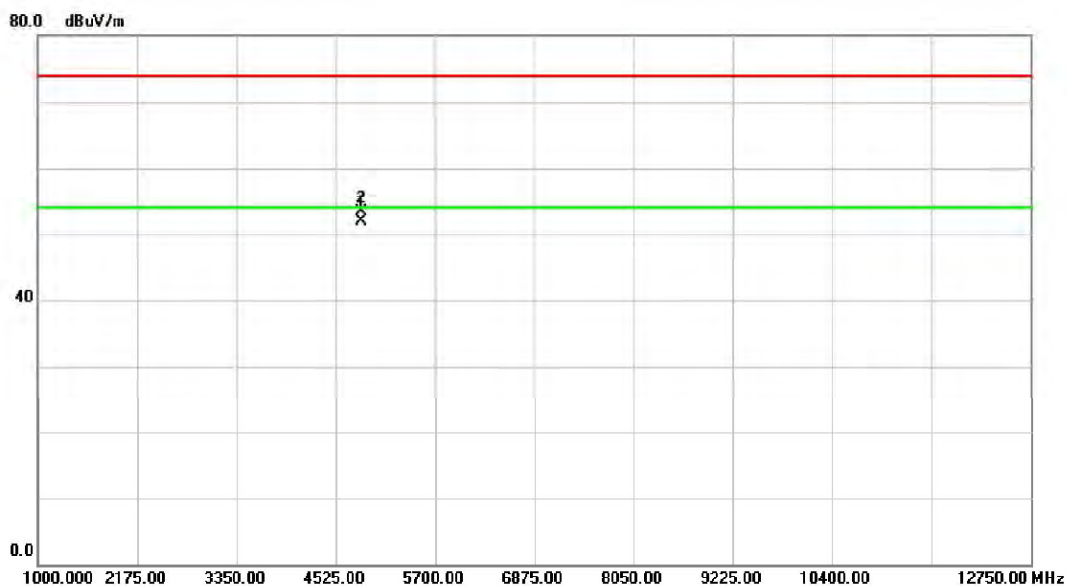
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.52	33.54	59.06	74.00	-14.94	peak	
2		2390.000	17.20	33.54	50.74	54.00	-3.26	AVG	
3	*	2412.700	75.82	33.57	109.39	54.00	55.39	AVG	no limit
4	X	2413.000	78.57	33.57	112.14	74.00	38.14	peak	no limit

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

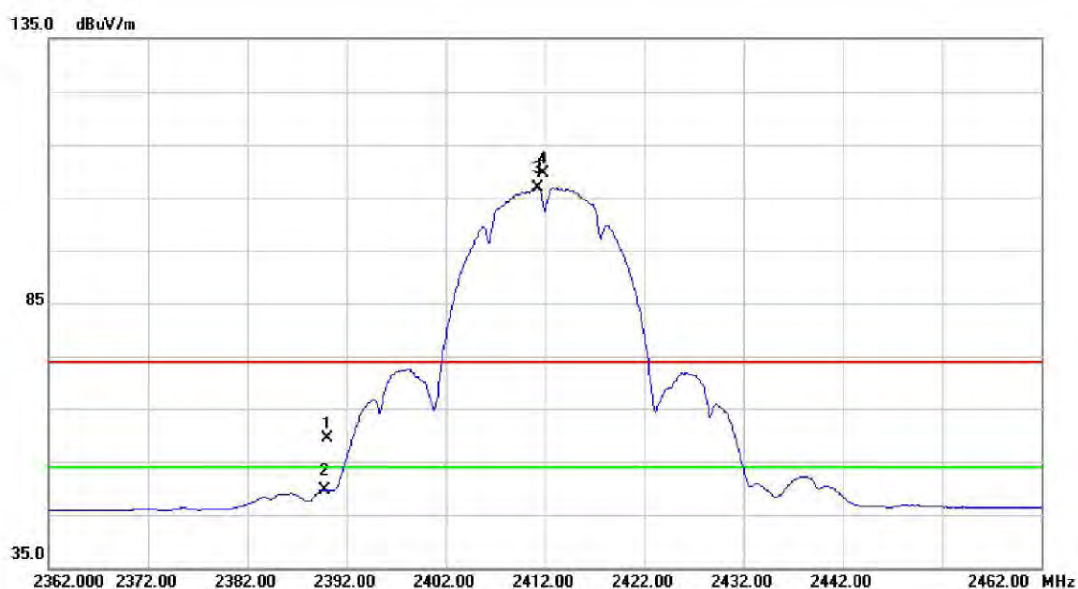
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4824.000	48.35	3.62	51.97	54.00	-2.03	AVG	
2		4824.050	49.76	3.62	53.38	74.00	-20.62	peak	

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	Over dB	Detector	Comment
1		2390.000	25.96	33.54	59.50	74.00	-14.50	peak	
2		2390.000	16.04	33.54	49.58	54.00	-4.42	AVG	
3	*	2411.200	73.29	33.57	106.86	54.00	52.86	AVG	no limit
4	X	2411.800	76.06	33.57	109.63	74.00	35.63	peak	no limit

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

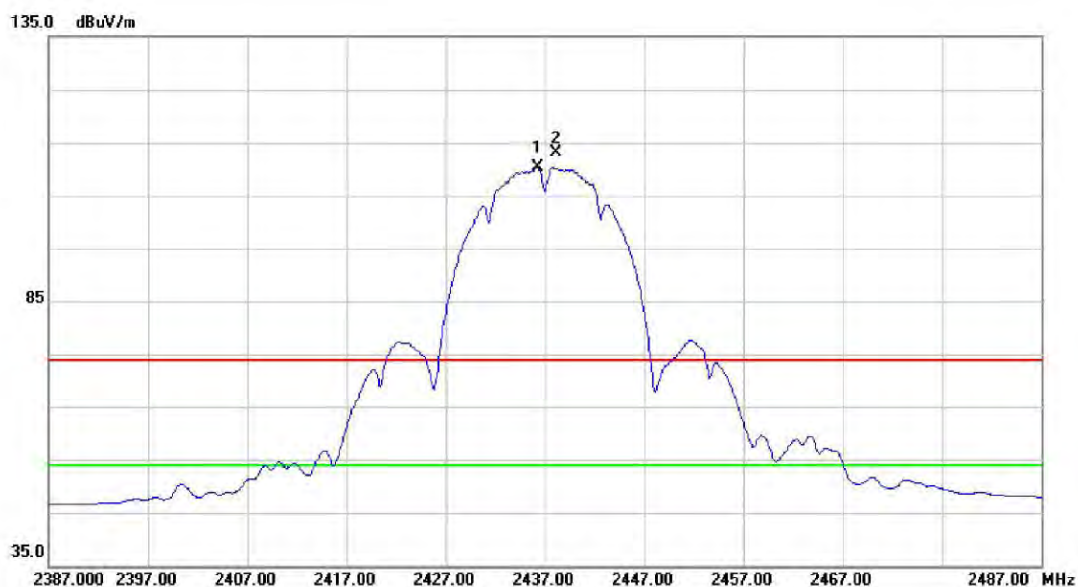
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4824.000	47.43	3.62	51.05	54.00	-2.95	AVG	
2		4824.100	49.52	3.62	53.14	74.00	-20.86	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	Over dB	Detector	Comment
1	*	2436.200	76.69	33.60	110.29	54.00	56.29	AVG	no limit
2	X	2438.100	79.61	33.60	113.21	74.00	39.21	peak	no limit

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

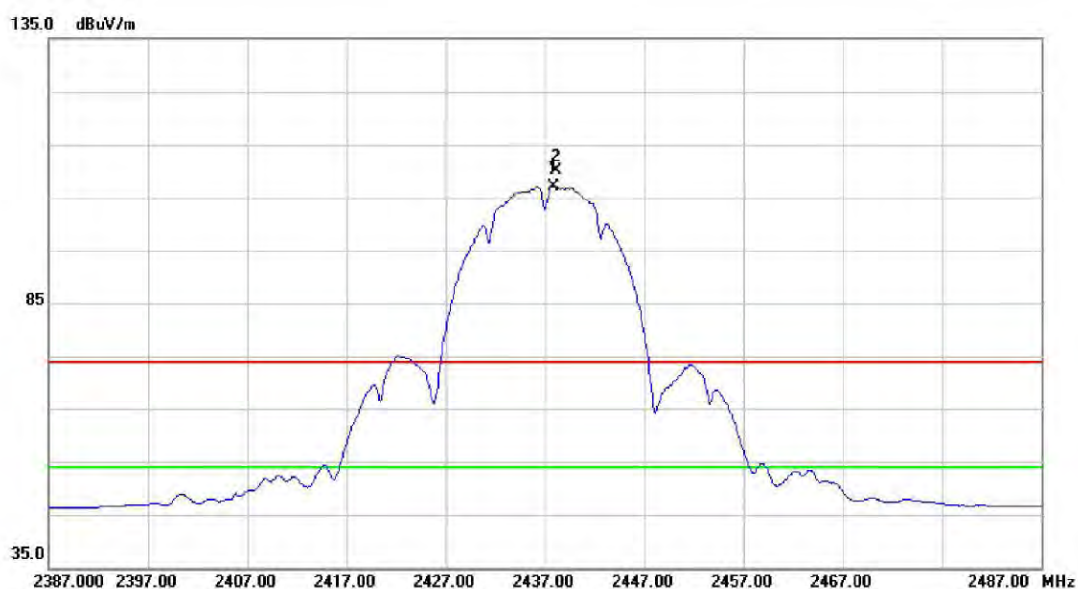
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4873.860	47.41	3.72	51.13	54.00	-2.87	AVG	
2		4874.130	49.66	3.72	53.38	74.00	-20.62	peak	

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	Over dB	Detector	Comment
1	*	2437.800	73.59	33.60	107.19	54.00	53.19	AVG	no limit
2	X	2438.100	76.50	33.60	110.10	74.00	36.10	peak	no limit

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

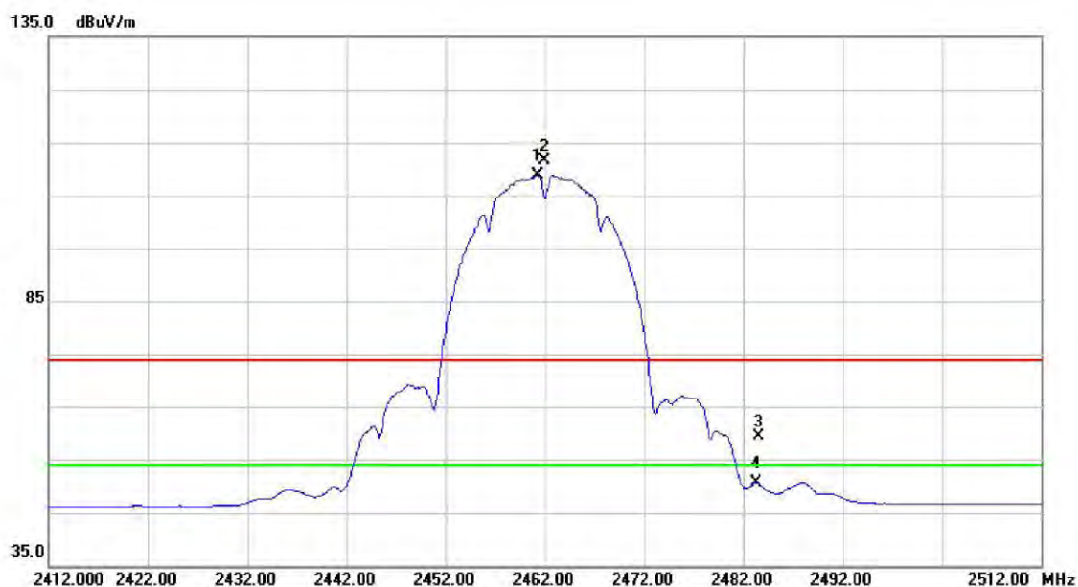
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4873.850	47.07	3.72	50.79	54.00	-3.21	AVG	
2		4874.110	49.42	3.72	53.14	74.00	-20.86	peak	

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	Over dB	Detector	Comment
1	*	2461.200	75.28	33.63	108.91	54.00	54.91	AVG	no limit
2	X	2461.900	78.08	33.63	111.71	74.00	37.71	peak	no limit
3		2483.500	25.61	33.66	59.27	74.00	-14.73	peak	
4		2483.500	16.89	33.66	50.55	54.00	-3.45	AVG	

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

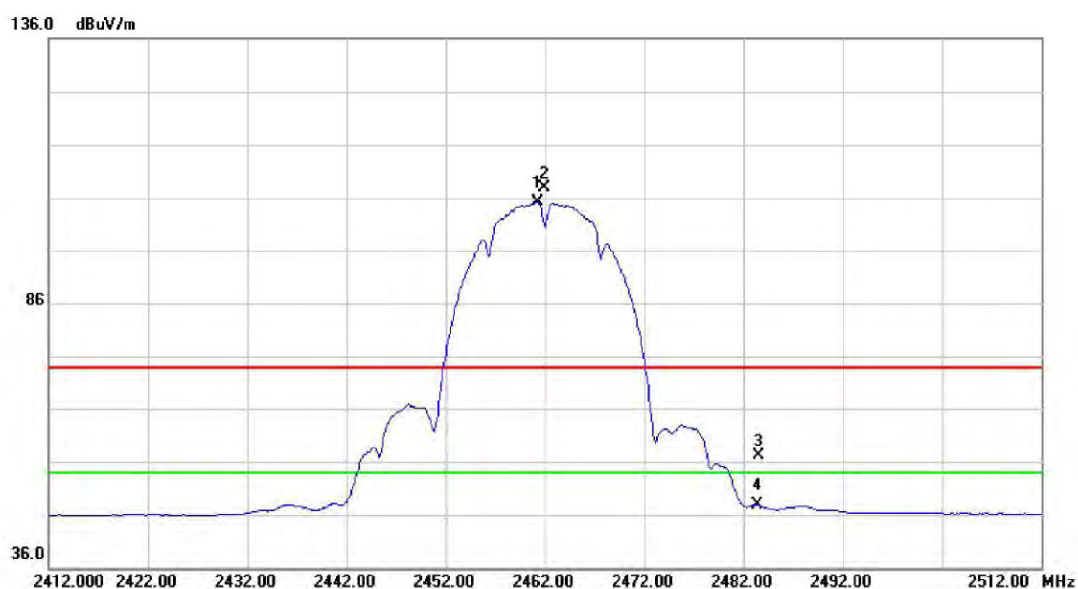
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4923.840	47.28	3.80	51.08	54.00	-2.92	AVG	
2		4924.070	49.93	3.80	53.73	74.00	-20.27	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	Over dB	Detector	Comment
1	*	2461.200	71.41	33.63	105.04	54.00	51.04	AVG	no limit
2	X	2461.900	74.18	33.63	107.81	74.00	33.81	peak	no limit
3		2483.500	23.46	33.66	57.12	74.00	-16.88	peak	
4		2483.500	14.24	33.66	47.90	54.00	-6.10	AVG	

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

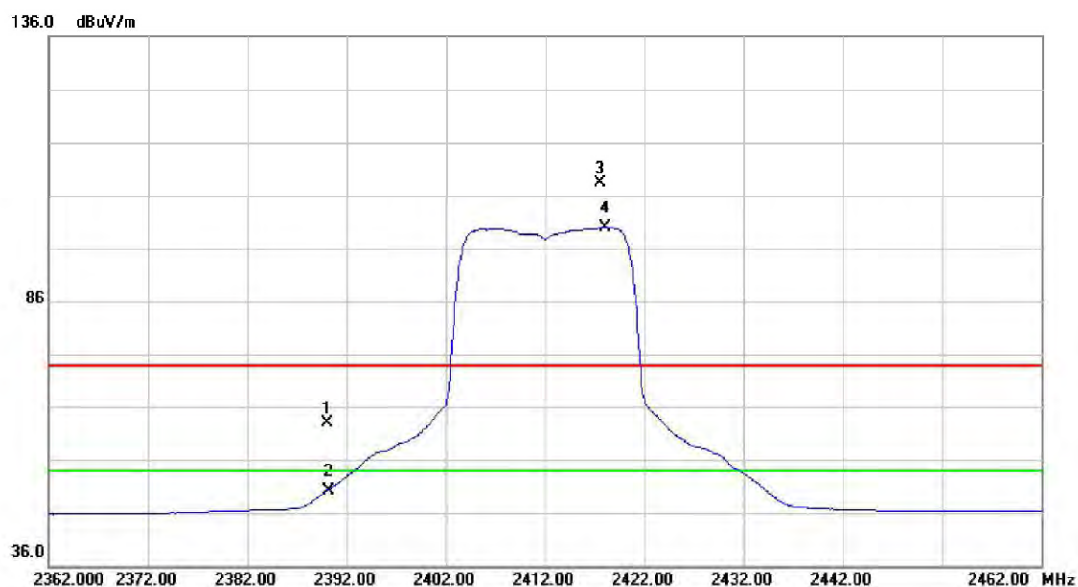
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4924.050	46.55	3.80	50.35	54.00	-3.65	AVG	
2		4924.180	49.28	3.80	53.08	74.00	-20.92	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	Over dB	Detector	Comment
1		2390.000	29.41	33.54	62.95	74.00	-11.05	peak	
2		2390.000	16.65	33.54	50.19	54.00	-3.81	AVG	
3	X	2417.500	74.89	33.57	108.46	74.00	34.46	peak	no limit
4	*	2418.100	66.41	33.57	99.98	54.00	45.98	AVG	no limit

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

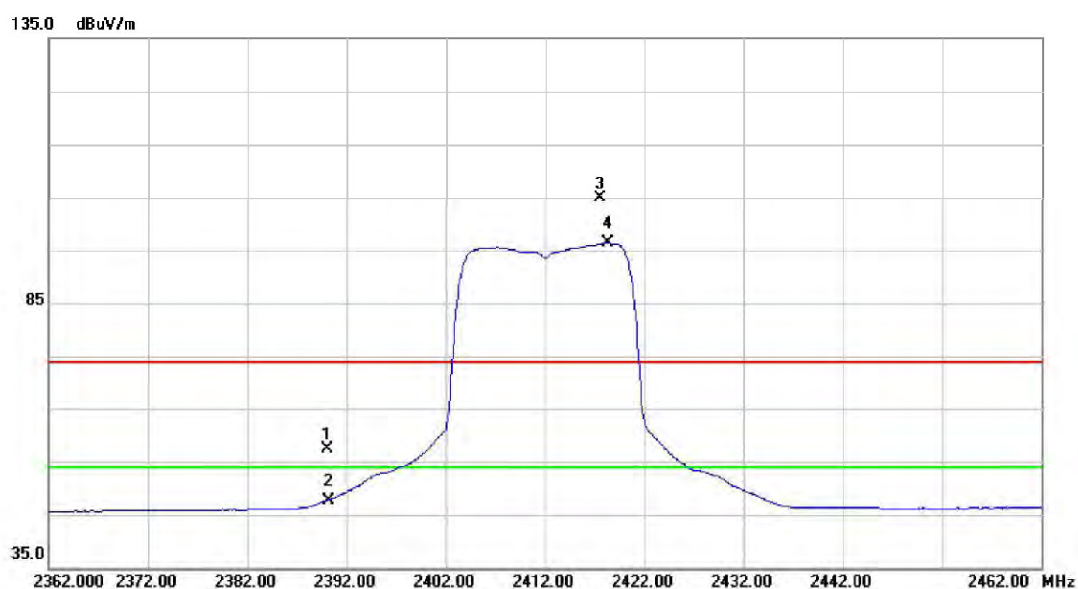
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4823.850	29.98	3.62	33.60	54.00	-20.40	AVG	
2		4824.850	41.85	3.62	45.47	74.00	-28.53	peak	

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

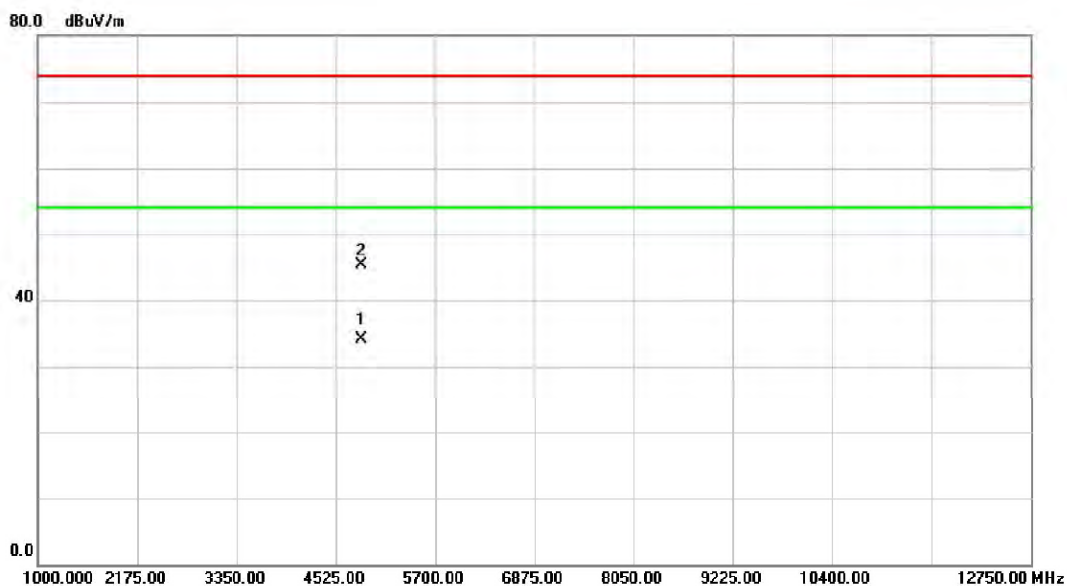
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.72	33.54	57.26	74.00	-16.74	peak	
2		2390.000	14.14	33.54	47.68	54.00	-6.32	AVG	
3	X	2417.500	71.19	33.57	104.76	74.00	30.76	peak	no limit
4	*	2418.300	62.80	33.57	96.37	54.00	42.37	AVG	no limit

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

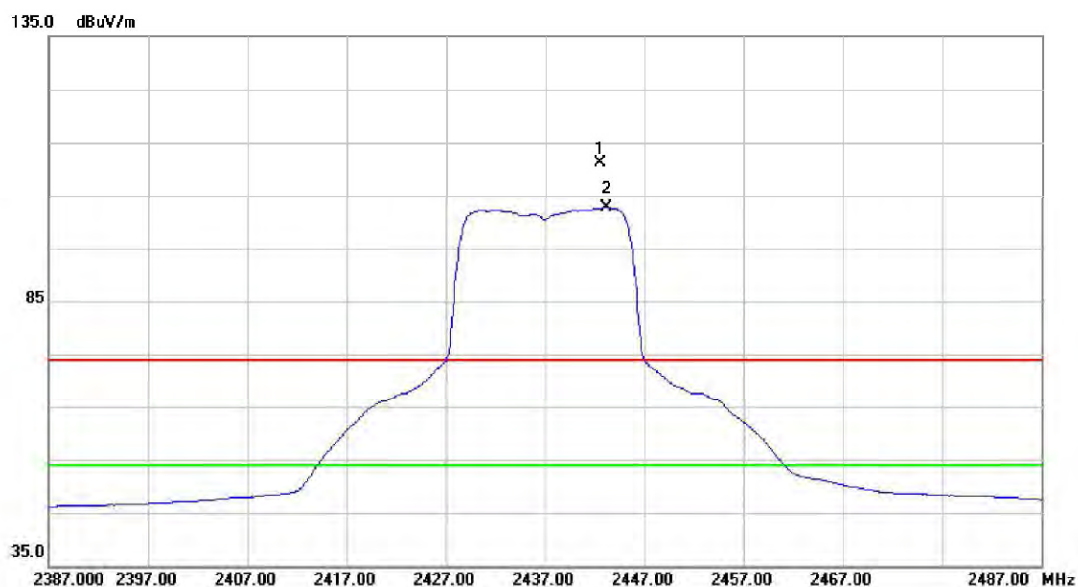
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4824.200	30.47	3.62	34.09	54.00	-19.91	AVG	
2		4824.900	41.78	3.62	45.40	74.00	-28.60	peak	

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	Over dB	Detector	Comment
1	X	2442.500	77.57	33.60	111.17	74.00	37.17	peak	no limit
2	*	2443.200	68.99	33.60	102.59	54.00	48.59	AVG	no limit

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

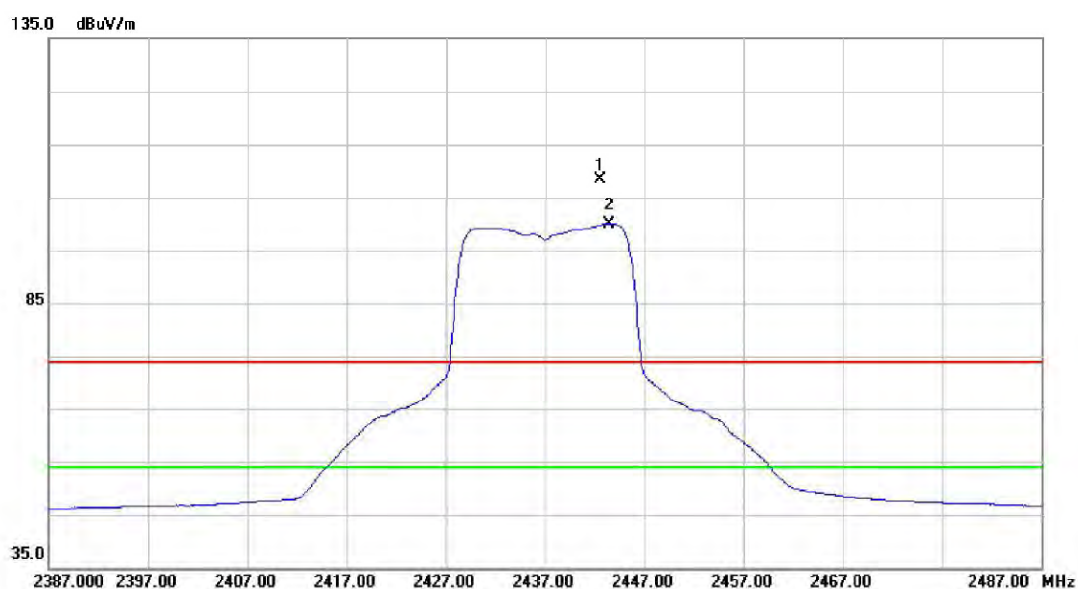
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	43.27	3.72	46.99	74.00	-27.01	peak	
2	*	4874.050	31.08	3.72	34.80	54.00	-19.20	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	Over dB	Detector	Comment
1	X	2442.500	74.71	33.60	108.31	74.00	34.31	peak	no limit
2	*	2443.400	66.29	33.60	99.89	54.00	45.89	AVG	no limit

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

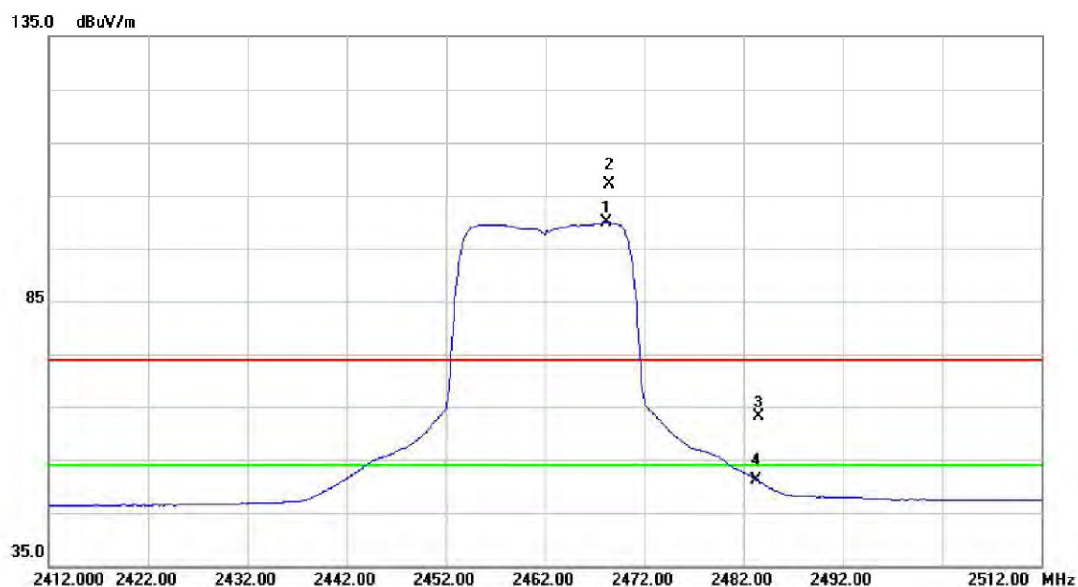
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.100	43.01	3.72	46.73	74.00	-27.27	peak	
2	*	4874.100	31.77	3.72	35.49	54.00	-18.51	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	Over dB	Detector	Comment
1	X	2468.200	66.21	33.63	99.84	74.00	25.84	peak	no limit
2	*	2468.700	73.51	33.63	107.14	54.00	53.14	AVG	no limit
3		2483.500	29.46	33.66	63.12	74.00	-10.88	peak	
4		2483.500	17.35	33.66	51.01	54.00	-2.99	AVG	

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

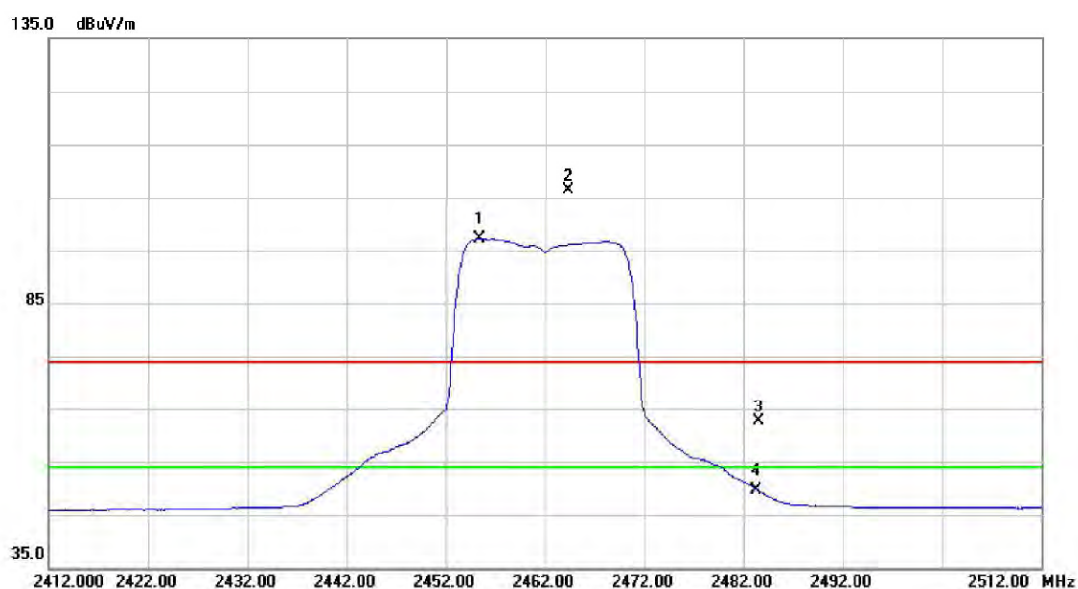
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4924.250	30.41	3.80	34.21	54.00	-19.79	AVG	
2		4924.450	42.03	3.80	45.83	74.00	-28.17	peak	

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

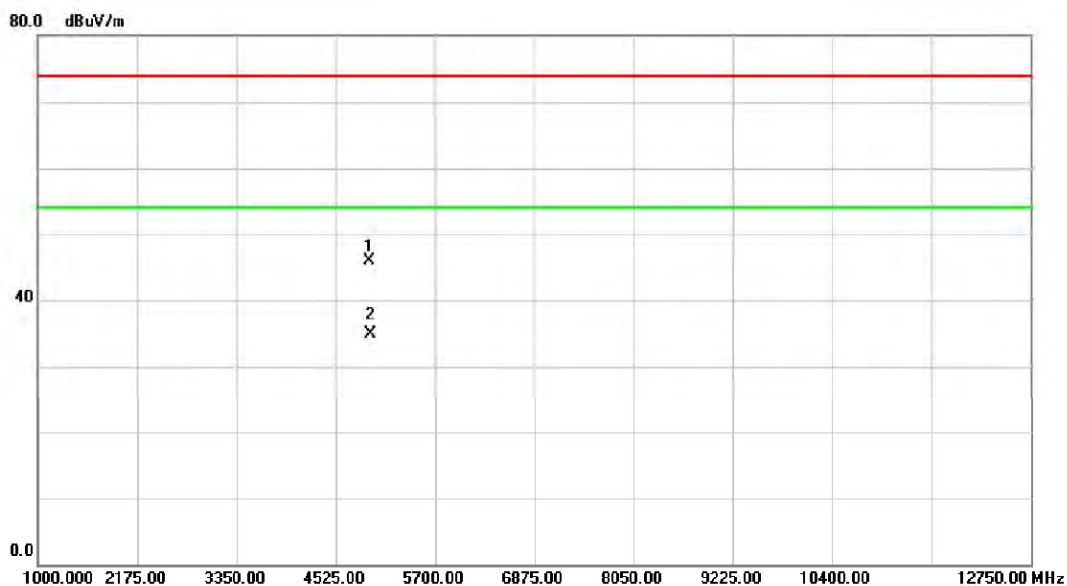
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2455.400	63.48	33.62	97.10	54.00	43.10	AVG	no limit
2	X	2464.300	72.67	33.63	106.30	74.00	32.30	peak	no limit
3		2483.500	28.93	33.66	62.59	74.00	-11.41	peak	
4		2483.500	15.92	33.66	49.58	54.00	-4.42	AVG	

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

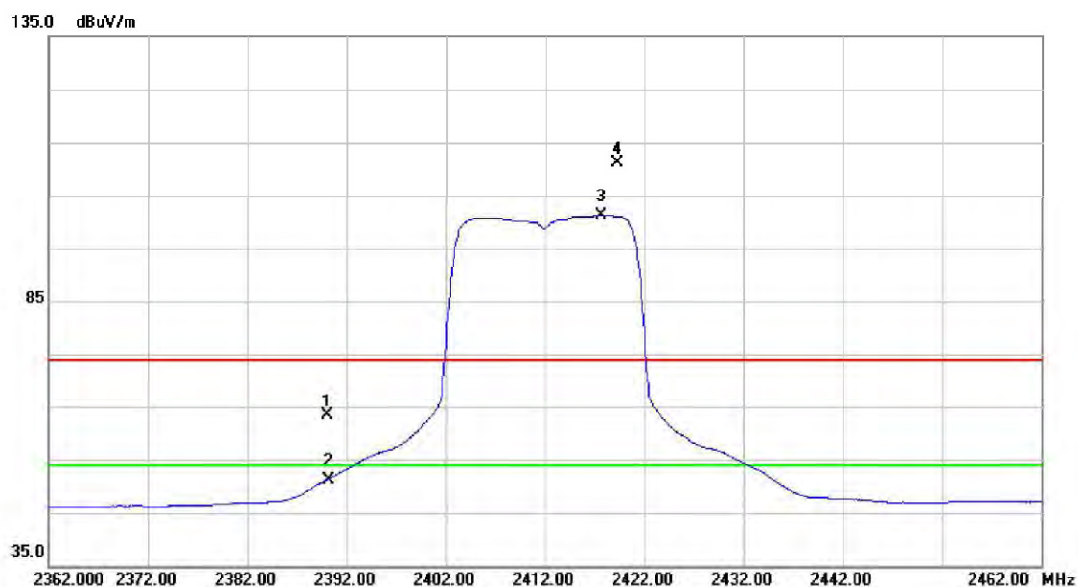
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.650	42.12	3.80	45.92	74.00	-28.08	peak	
2	*	4924.800	31.20	3.80	35.00	54.00	-19.00	AVG	

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

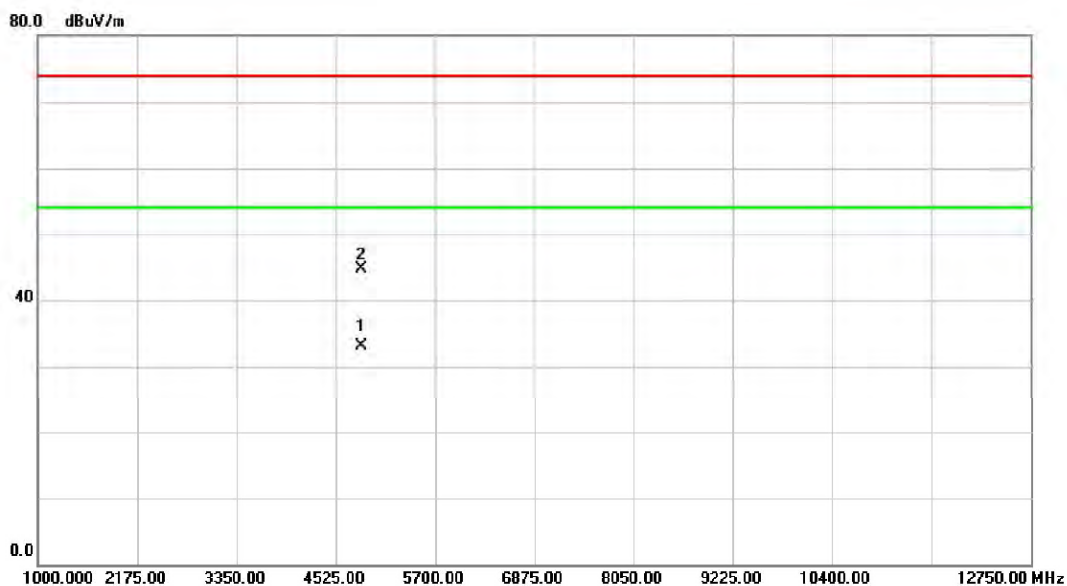
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	29.84	33.54	63.38	74.00	-10.62	peak	
2		2390.000	17.68	33.54	51.22	54.00	-2.78	AVG	
3	*	2417.600	67.66	33.57	101.23	54.00	47.23	AVG	no limit
4	X	2419.300	77.65	33.58	111.23	74.00	37.23	peak	no limit

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

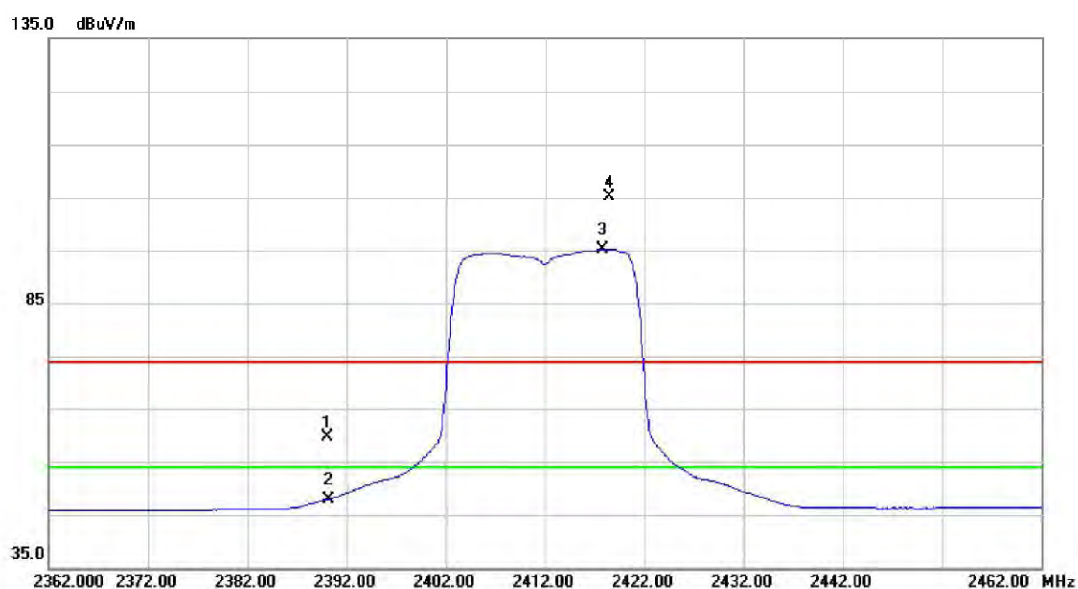
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4823.600	29.46	3.62	33.08	54.00	-20.92	AVG	
2		4824.050	41.08	3.62	44.70	74.00	-29.30	peak	

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	Over dB	Detector	Comment
1		2390.000	26.05	33.54	59.59	74.00	-14.41	peak	
2		2390.000	14.35	33.54	47.89	54.00	-6.11	AVG	
3	*	2417.800	61.58	33.57	95.15	54.00	41.15	AVG	no limit
4	X	2418.500	71.58	33.57	105.15	74.00	31.15	peak	no limit

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

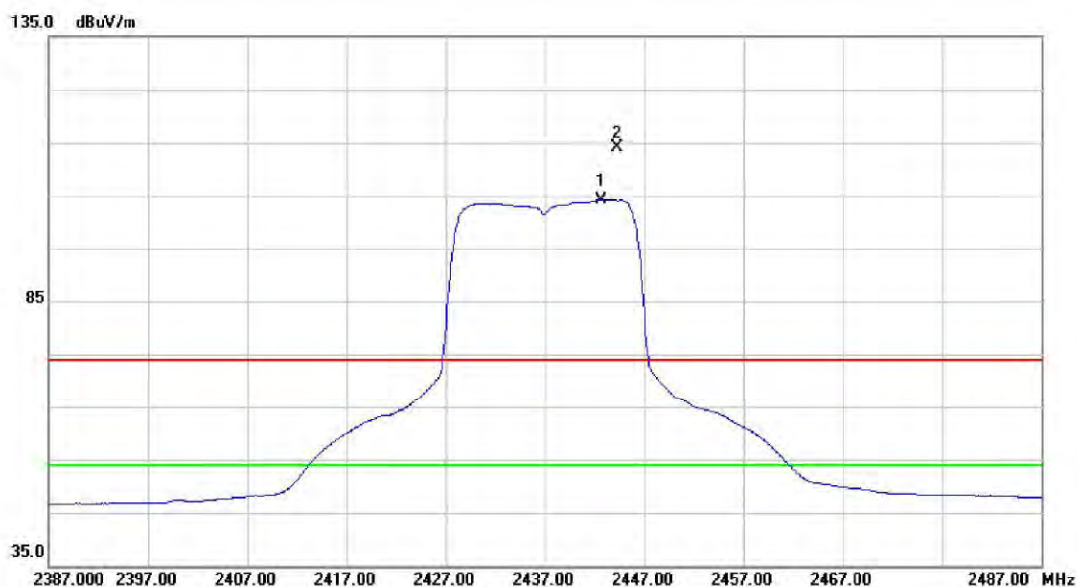
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.800	40.19	3.62	43.81	74.00	-30.19	peak	
2	*	4823.800	29.39	3.62	33.01	54.00	-20.99	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	Over dB	Detector	Comment
1	*	2442.700	70.59	33.60	104.19	54.00	50.19	AVG	no limit
2	X	2444.200	80.57	33.61	114.18	74.00	40.18	peak	no limit

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

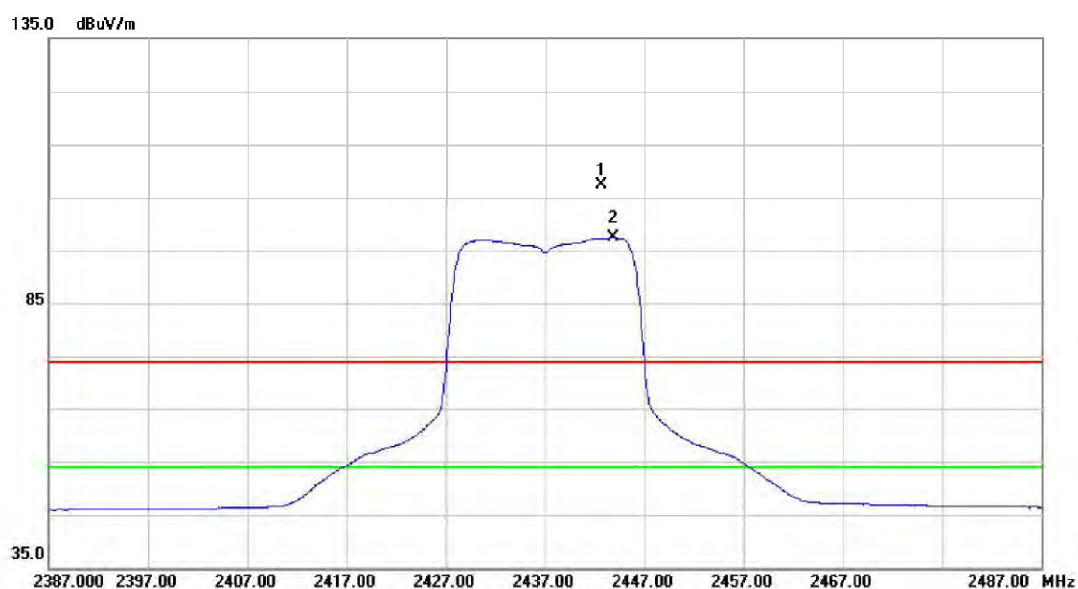
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4873.860	28.66	3.72	32.38	54.00	-21.62	AVG	
2		4874.160	40.27	3.72	43.99	74.00	-30.01	peak	

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	Over dB	Detector	Comment
1	X	2442.600	73.78	33.60	107.38	74.00	33.38	peak	no limit
2	*	2443.800	63.70	33.61	97.31	54.00	43.31	AVG	no limit

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

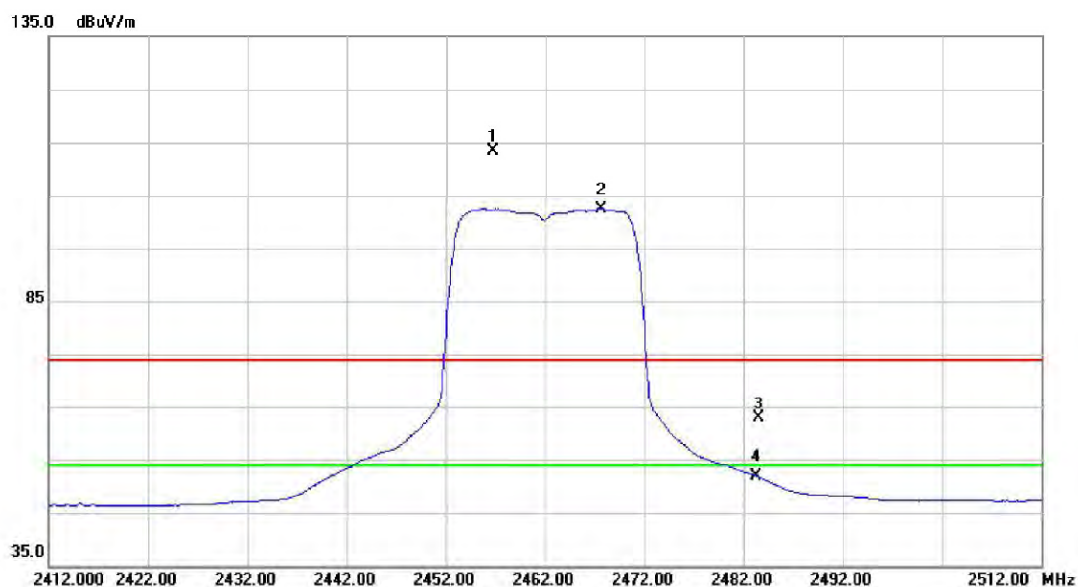
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4873.830	28.75	3.72	32.47	54.00	-21.53	AVG	
2		4873.930	39.59	3.72	43.31	74.00	-30.69	peak	

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

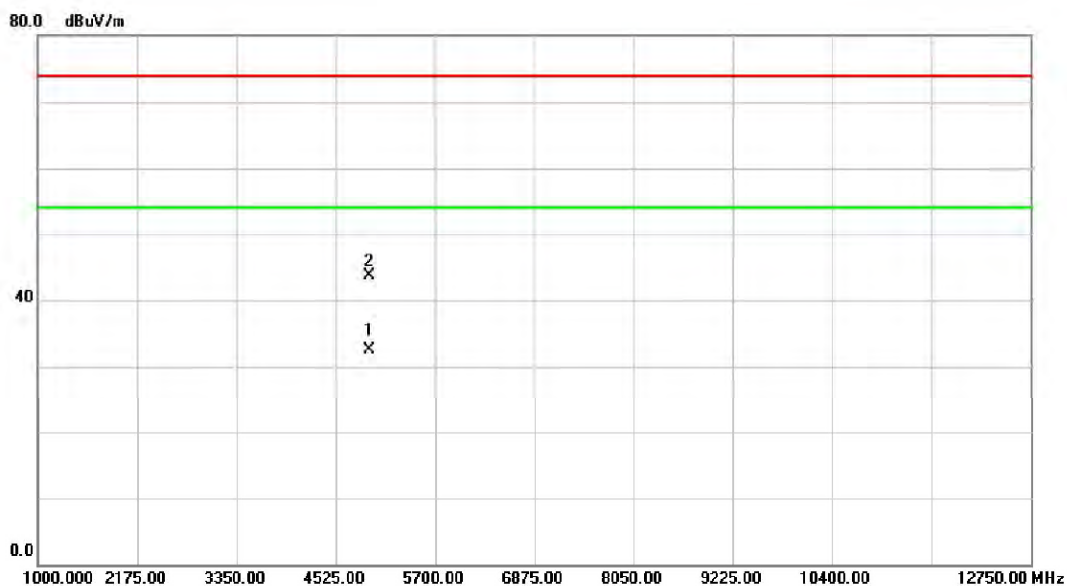
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2456.700	79.85	33.63	113.48	74.00	39.48	peak	no limit
2	*	2467.700	68.66	33.63	102.29	54.00	48.29	AVG	no limit
3		2483.500	29.19	33.66	62.85	74.00	-11.15	peak	
4		2483.500	18.13	33.66	51.79	54.00	-2.21	AVG	

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

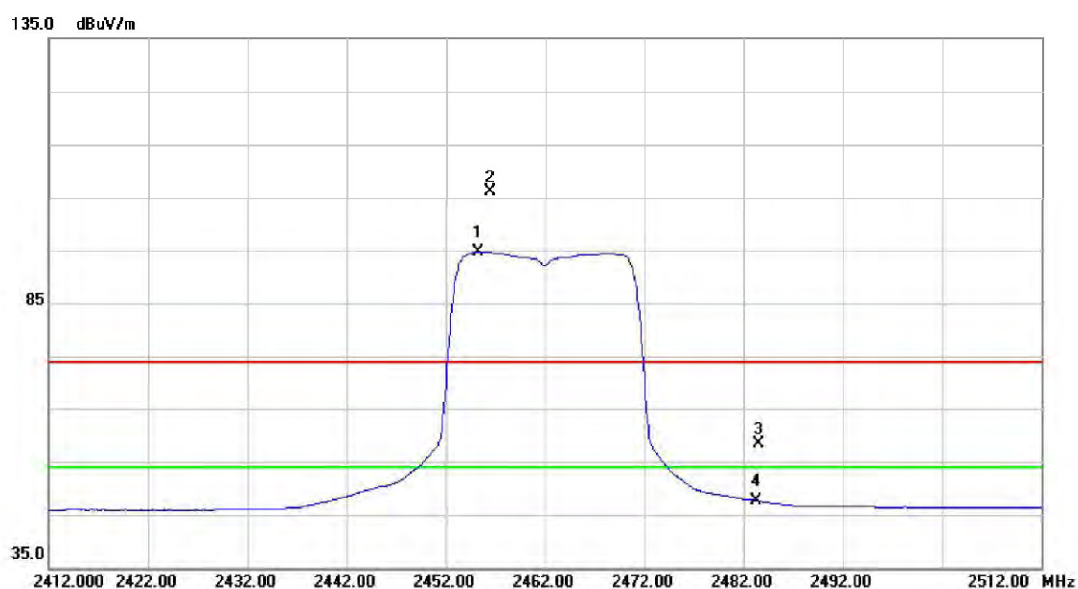
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4924.060	28.68	3.80	32.48	54.00	-21.52	AVG	
2		4924.210	39.96	3.80	43.76	74.00	-30.24	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	Over dB	Detector	Comment
1	*	2455.200	61.04	33.62	94.66	54.00	40.66	AVG	no limit
2	X	2456.500	72.58	33.63	106.21	74.00	32.21	peak	no limit
3		2483.500	24.78	33.66	58.44	74.00	-15.56	peak	
4		2483.500	13.92	33.66	47.58	54.00	-6.42	AVG	

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

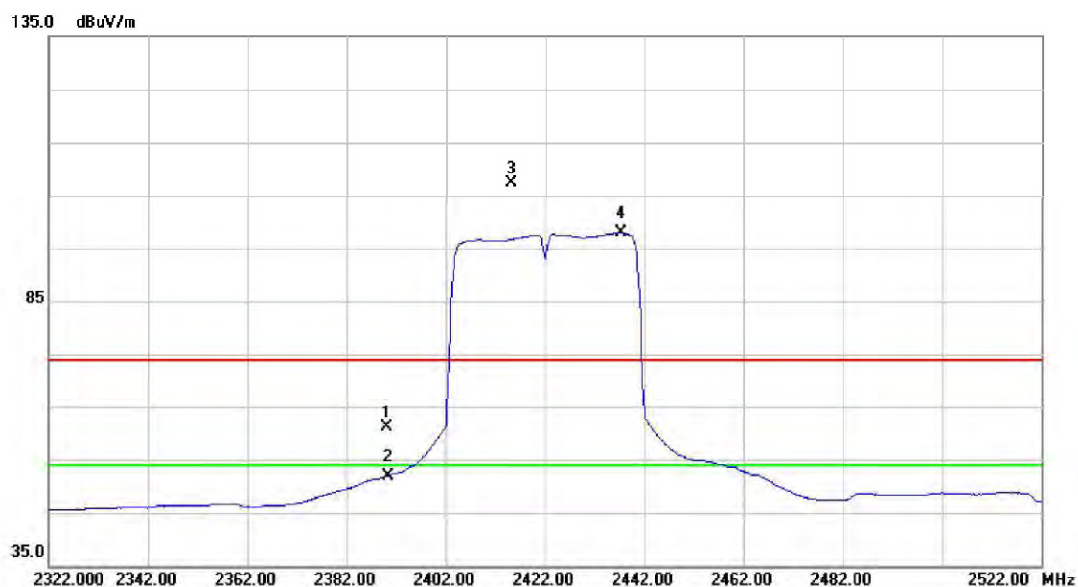
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4923.800	28.93	3.80	32.73	54.00	-21.27	AVG	
2		4923.810	39.38	3.80	43.18	74.00	-30.82	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	Over dB	Detector	Comment
1		2390.000	27.58	33.54	61.12	74.00	-12.88	peak	
2		2390.000	18.27	33.54	51.81	54.00	-2.19	AVG	
3	X	2415.200	73.90	33.57	107.47	74.00	33.47	peak	no limit
4	*	2437.400	64.36	33.60	97.96	54.00	43.96	AVG	no limit

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

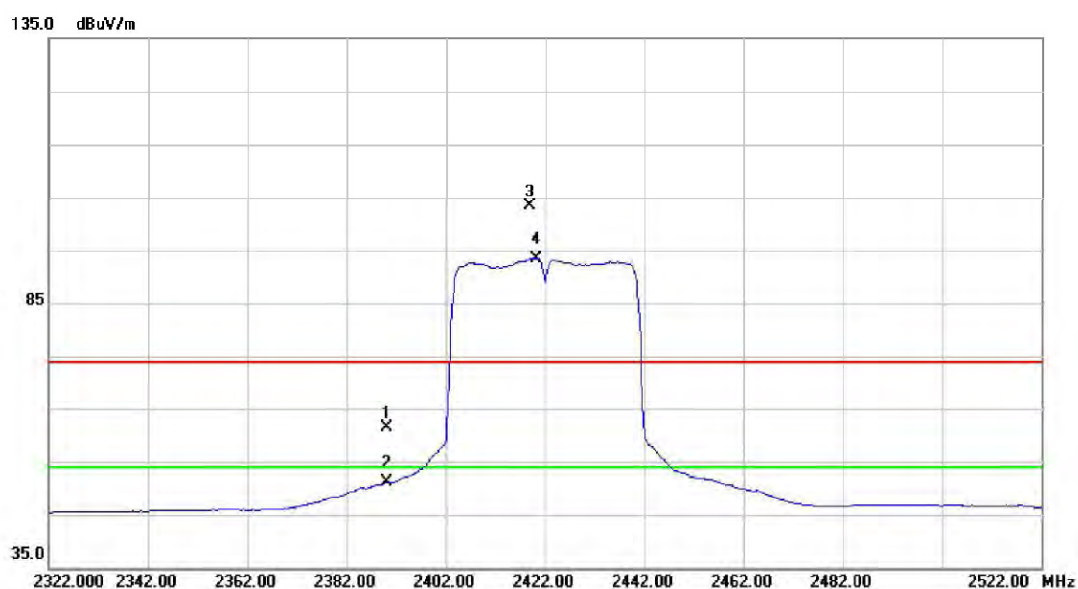
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4843.700	29.22	3.66	32.88	54.00	-21.12	AVG	
2		4844.810	40.65	3.66	44.31	74.00	-29.69	peak	

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	Over dB	Detector	Comment
1		2390.000	27.94	33.54	61.48	74.00	-12.52	peak	
2		2390.000	17.59	33.54	51.13	54.00	-2.87	AVG	
3	X	2419.000	69.72	33.58	103.30	74.00	29.30	peak	no limit
4	*	2420.200	59.87	33.58	93.45	54.00	39.45	AVG	no limit

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

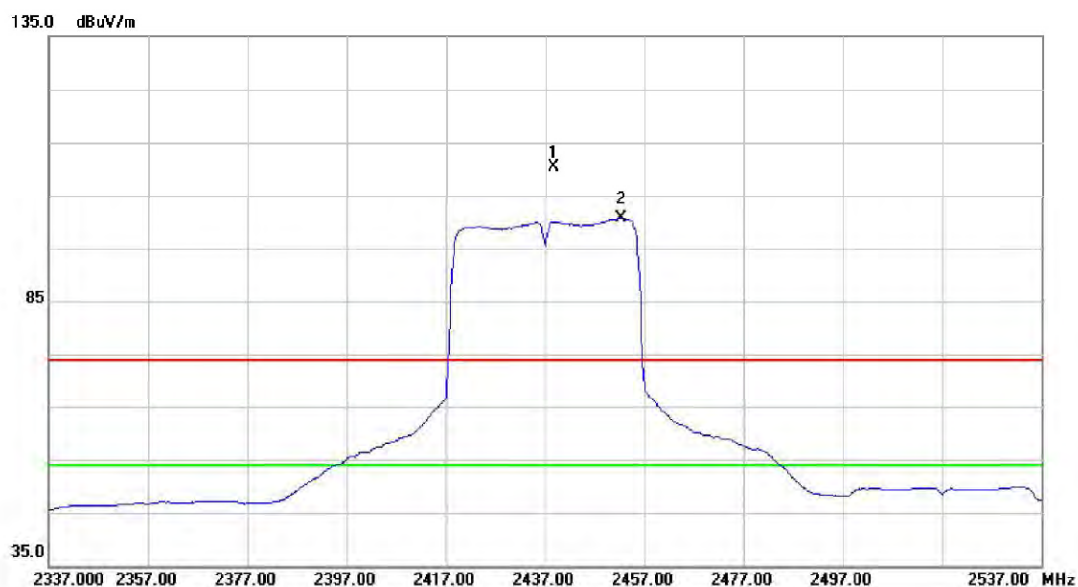
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4843.690	29.69	3.66	33.35	54.00	-20.65	AVG	
2		4844.800	39.35	3.66	43.01	74.00	-30.99	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	Over dB	Detector	Comment
1	X	2438.600	76.73	33.60	110.33	74.00	36.33	peak	no limit
2	*	2452.400	67.03	33.62	100.65	54.00	46.65	AVG	no limit

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

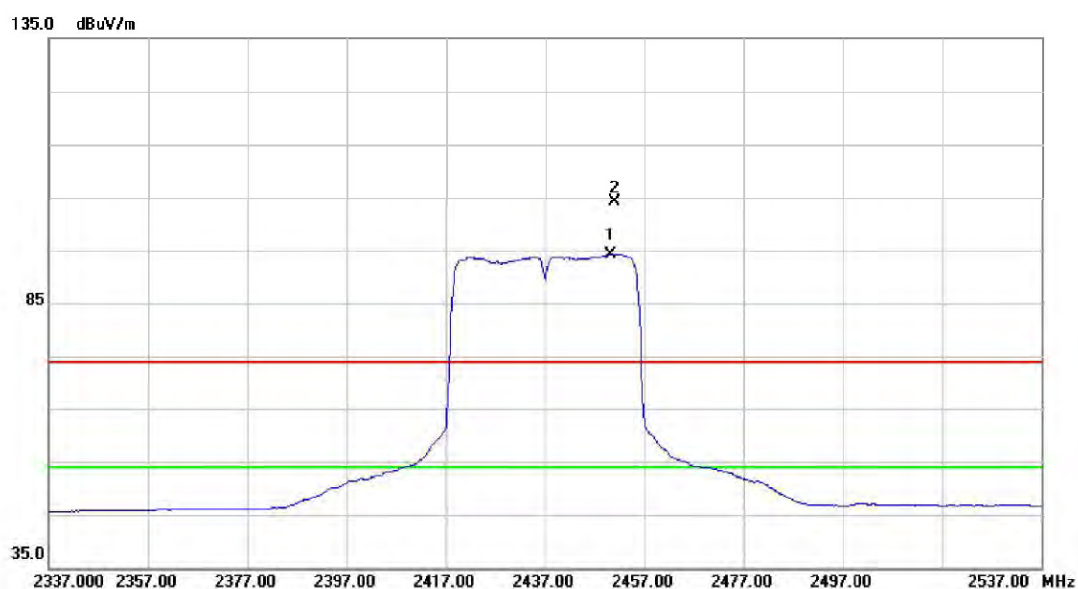
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4873.600	28.96	3.72	32.68	54.00	-21.32	AVG	
2		4874.500	40.28	3.72	44.00	74.00	-30.00	peak	

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

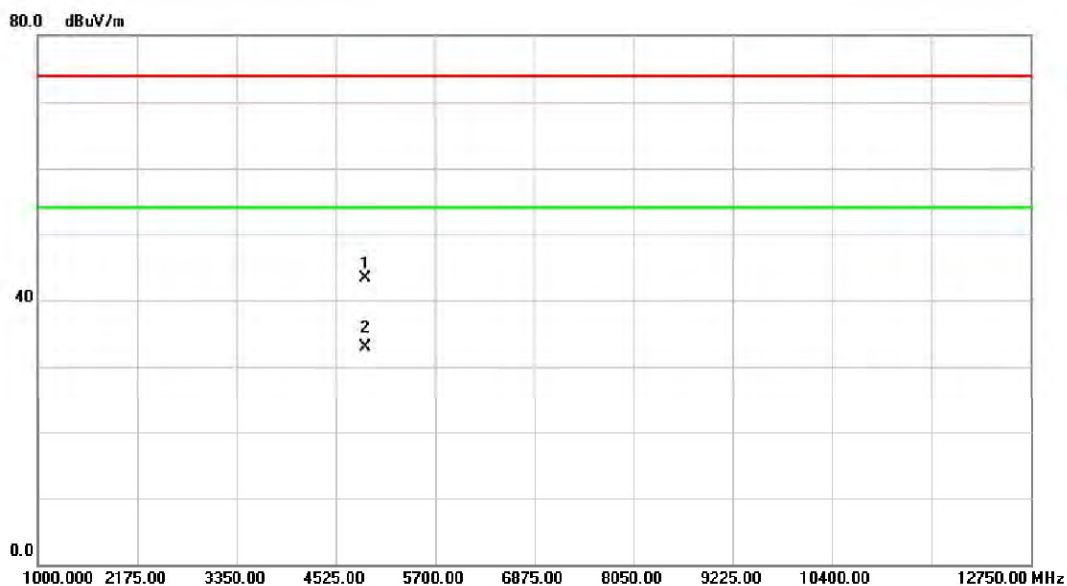
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2450.200	60.47	33.62	94.09	54.00	40.09	AVG	no limit
2	X	2451.000	70.41	33.62	104.03	74.00	30.03	peak	no limit

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

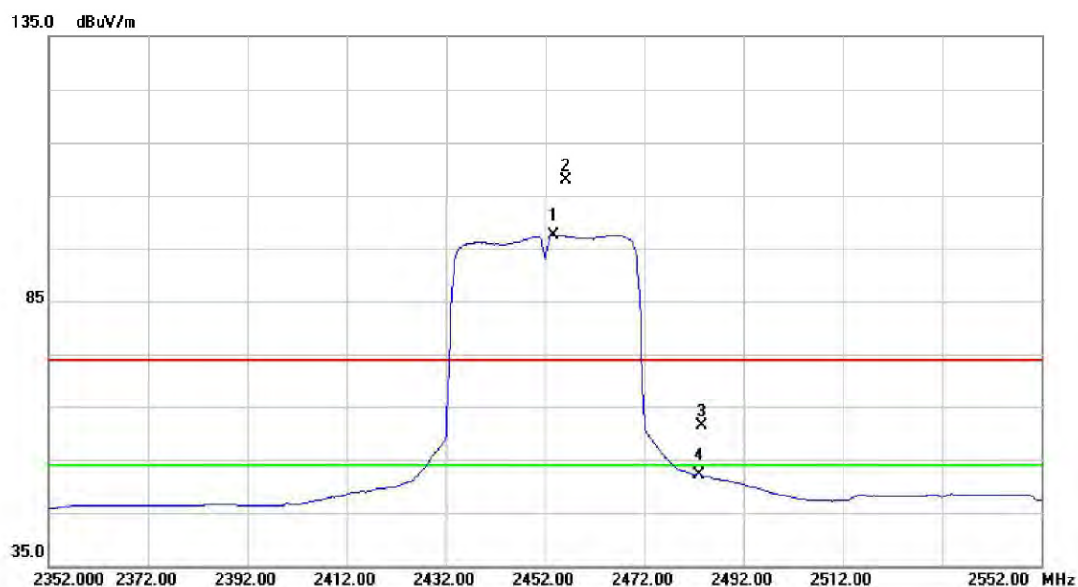
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.700	39.59	3.72	43.31	74.00	-30.69	peak	
2	*	4873.800	29.10	3.72	32.82	54.00	-21.18	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	Over dB	Detector	Comment
1	*	2453.800	63.84	33.62	97.46	54.00	43.46	AVG	no limit
2	X	2456.000	74.38	33.62	108.00	74.00	34.00	peak	no limit
3		2483.500	27.72	33.66	61.38	74.00	-12.62	peak	
4		2483.500	18.39	33.66	52.05	54.00	-1.95	AVG	

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

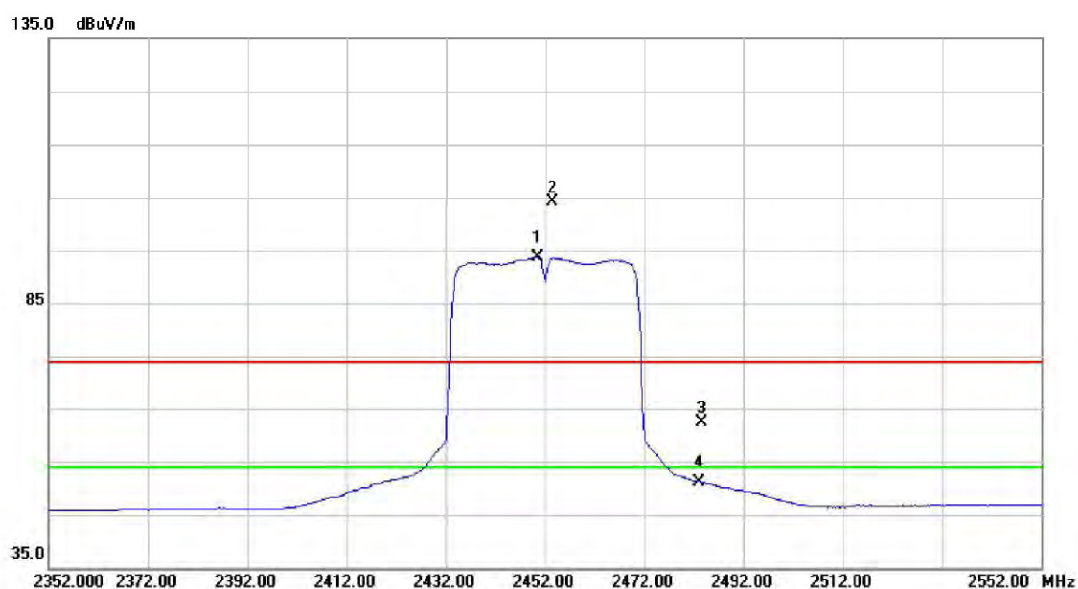
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4903.510	29.27	3.77	33.04	54.00	-20.96	AVG	
2		4904.170	39.92	3.77	43.69	74.00	-30.31	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	Over dB	Detector	Comment
1	*	2450.400	59.96	33.62	93.58	54.00	39.58	AVG	no limit
2	X	2453.400	70.59	33.62	104.21	74.00	30.21	peak	no limit
3		2483.500	28.81	33.66	62.47	74.00	-11.53	peak	
4		2483.500	17.48	33.66	51.14	54.00	-2.86	AVG	

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

Horizontal



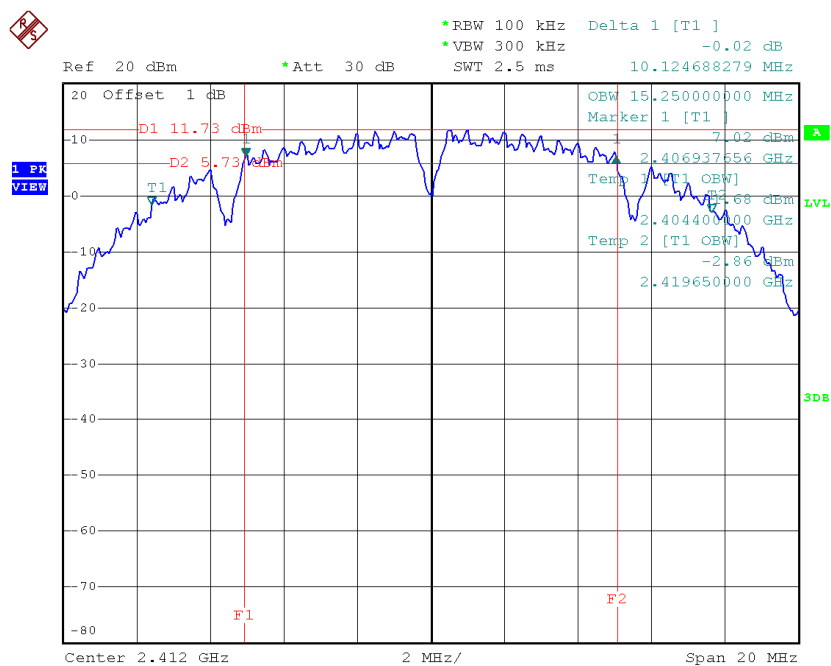
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4903.540	28.68	3.77	32.45	54.00	-21.55	AVG	
2		4903.780	39.37	3.77	43.14	74.00	-30.86	peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

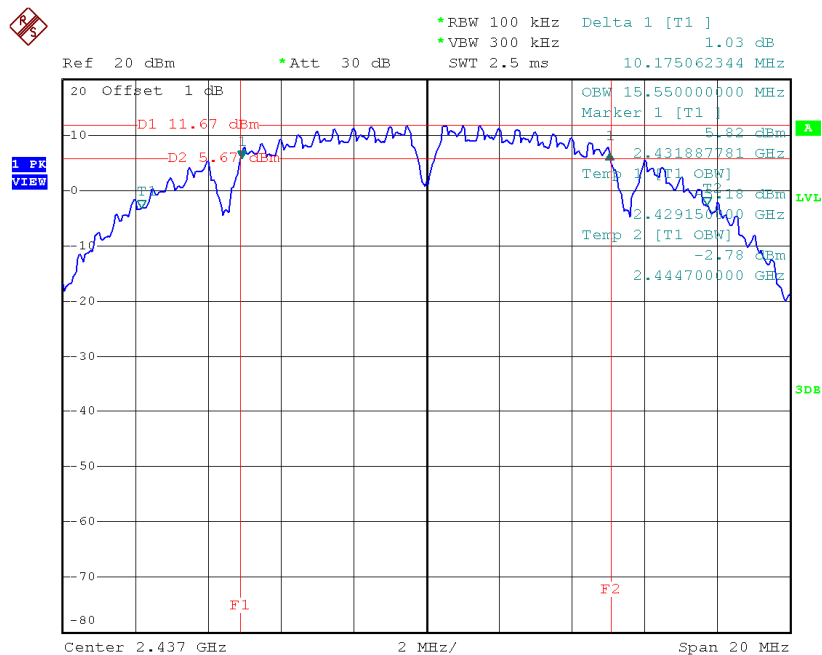
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	10.12	15.25	500	Complies
2437 MHz	10.18	15.55	500	Complies
2462 MHz	10.22	15.20	500	Complies

TX CH01



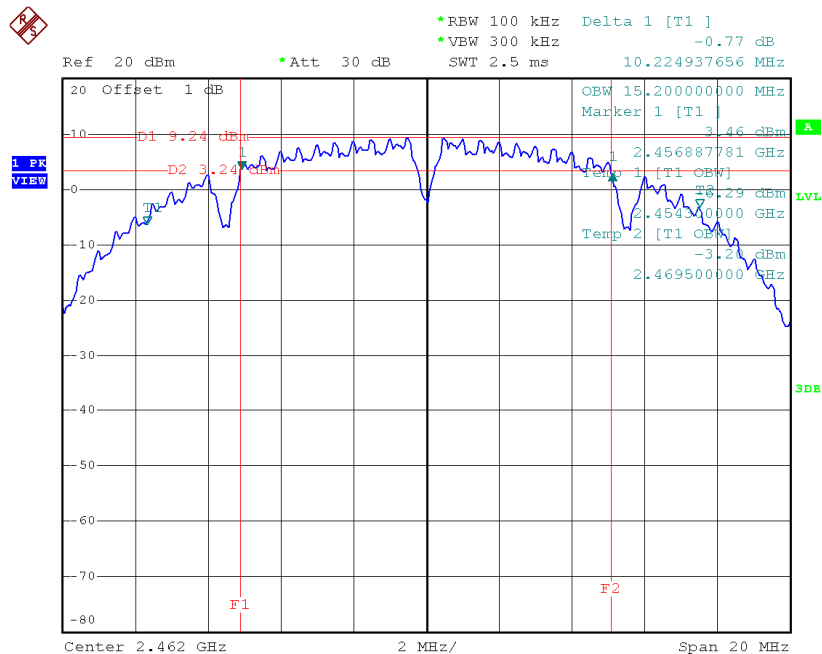
Date: 2.SEP.2014 08:54:30

TX CH06



Date: 2.SEP.2014 08:56:54

TX CH11

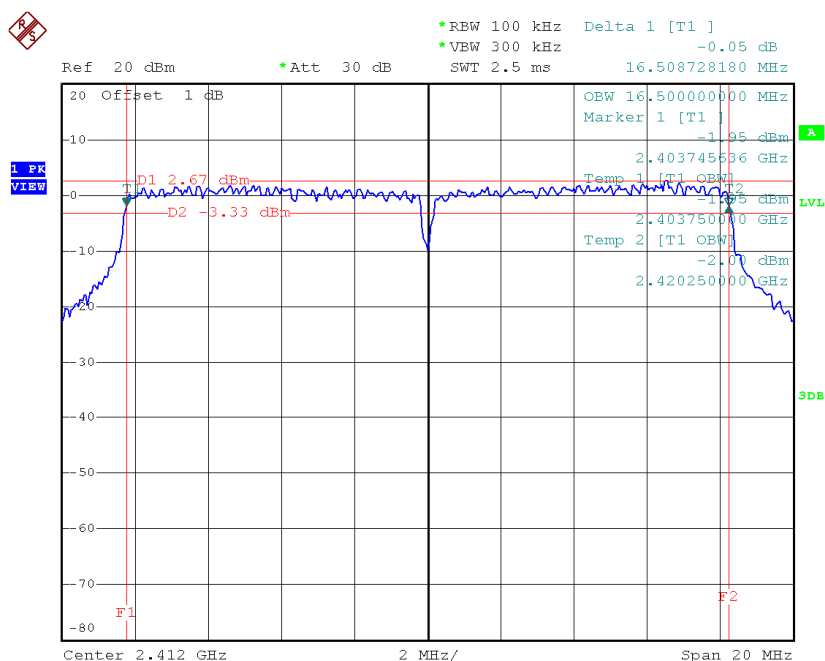


Date: 2.SEP.2014 08:58:38

Test Mode: TX G Mode_CH01/06/11

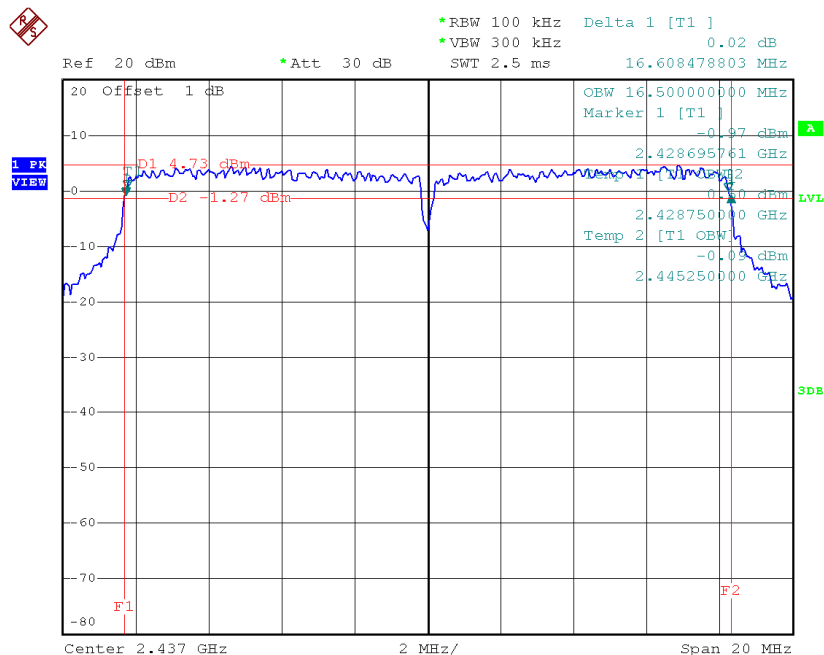
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	16.51	16.50	500	Complies
2437 MHz	16.61	16.50	500	Complies
2462 MHz	16.56	16.55	500	Complies

TX CH01



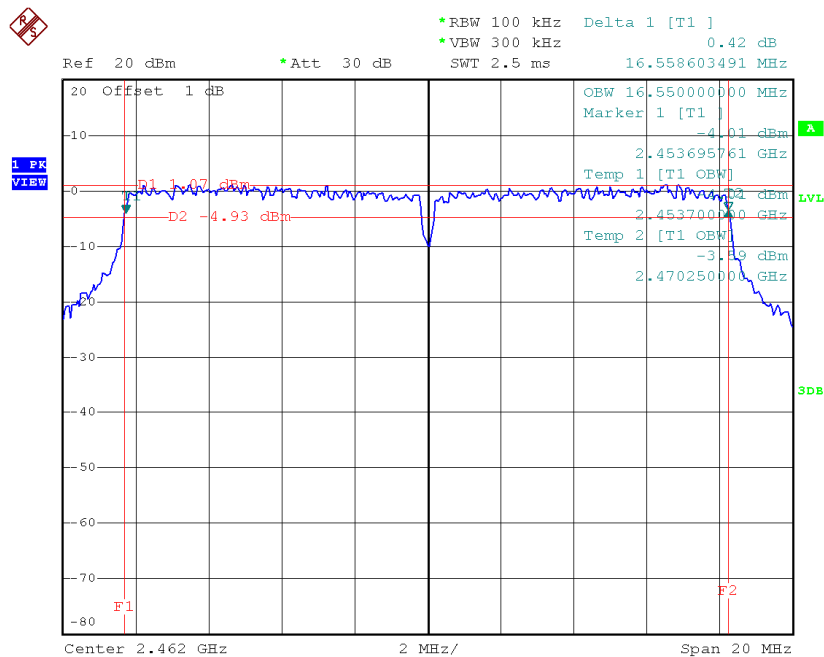
Date: 2.SEP.2014 09:00:29

TX CH06



Date: 2.SEP.2014 09:02:01

TX CH11

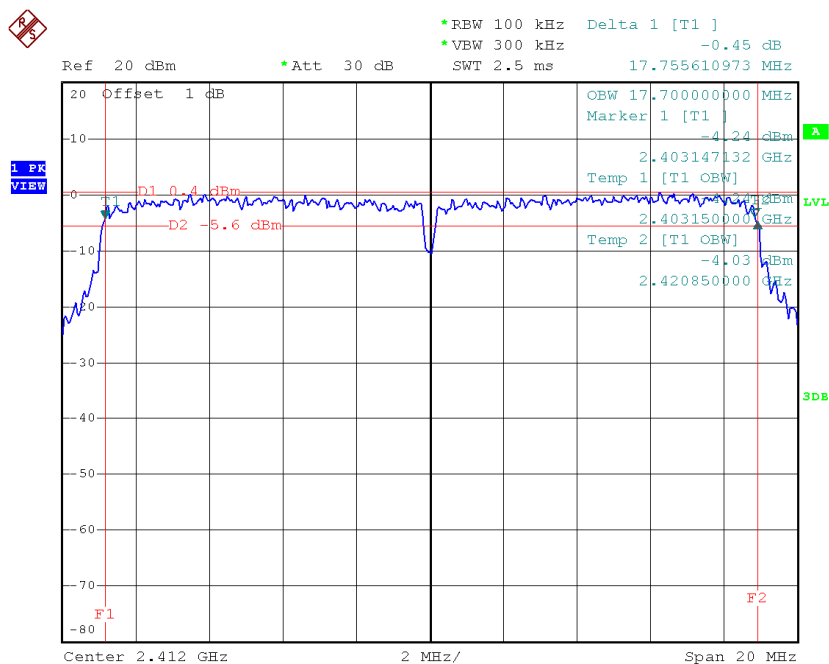


Date: 2.SEP.2014 09:03:15

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

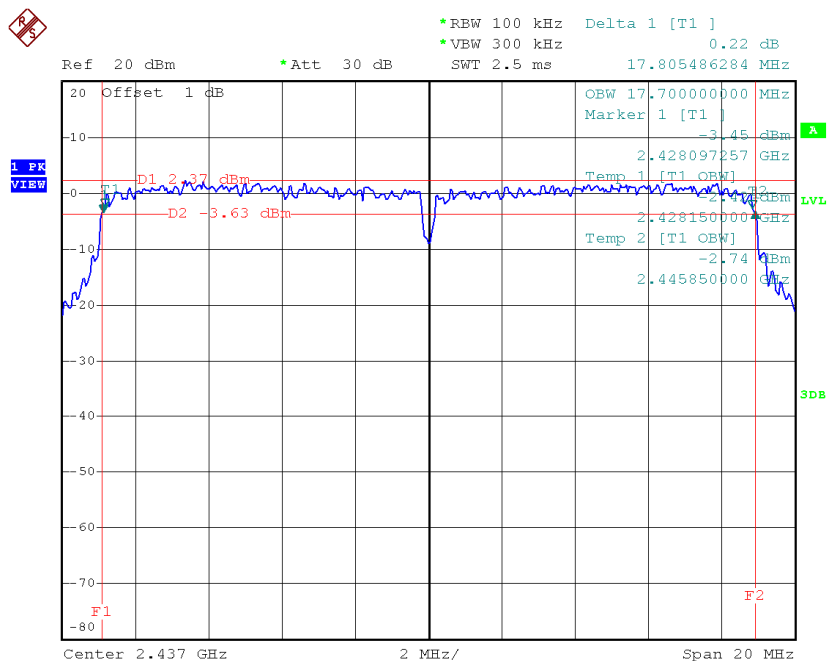
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	17.76	17.70	500	Complies
2437 MHz	17.81	17.70	500	Complies
2462 MHz	17.81	17.65	500	Complies

TX CH01



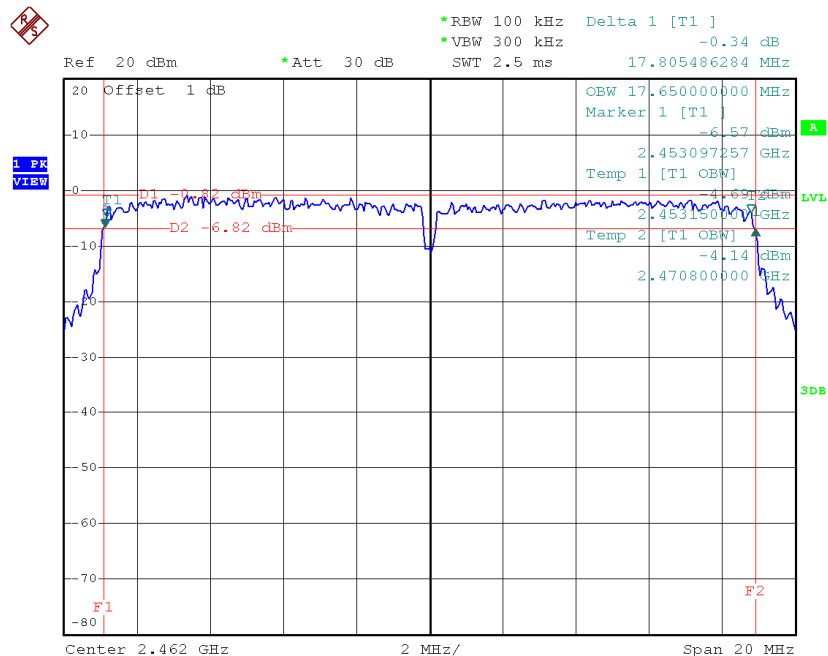
Date: 2.SEP.2014 09:06:22

TX CH06



Date: 2.SEP.2014 09:11:59

TX CH11

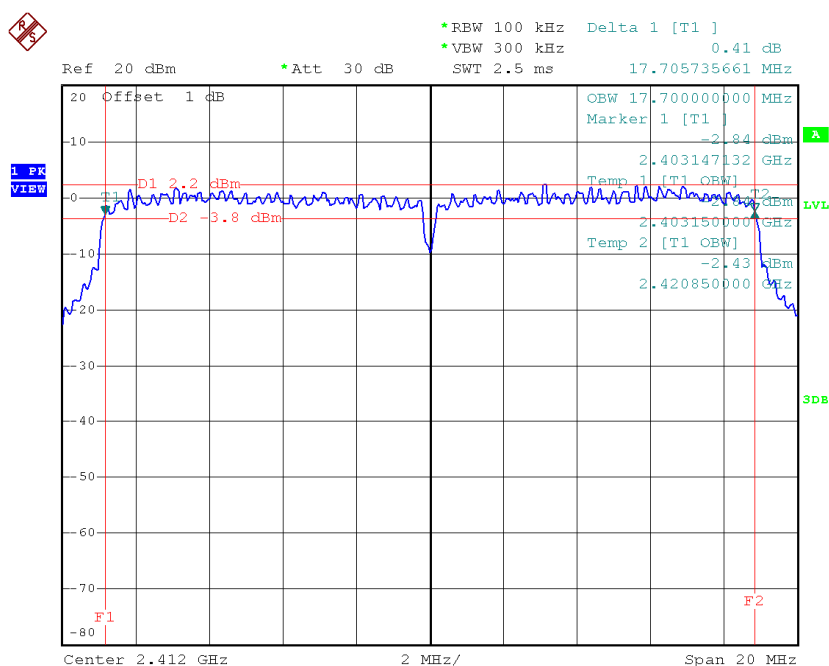


Date: 2.SEP.2014 09:13:40

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

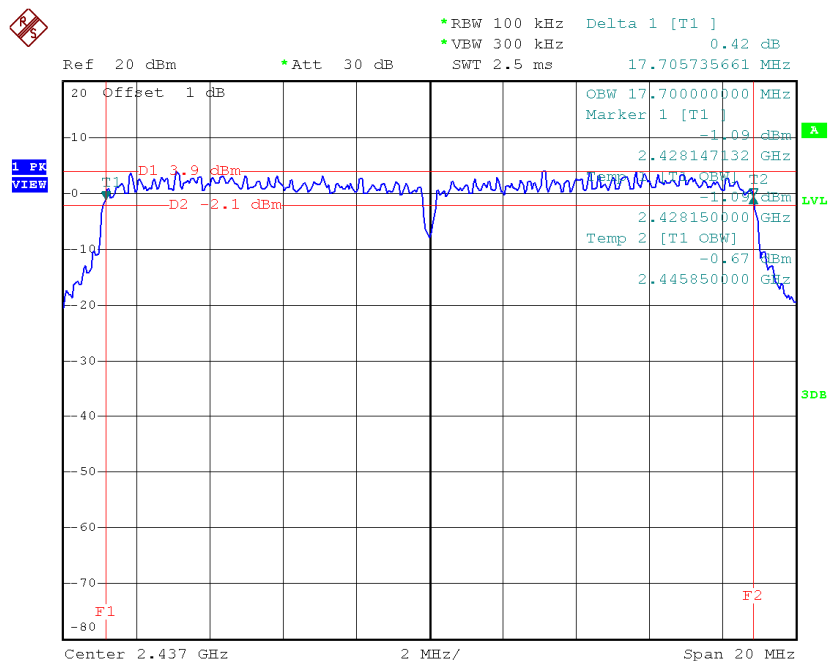
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	17.71	17.70	500	Complies
2437 MHz	17.71	17.70	500	Complies
2462 MHz	17.71	17.65	500	Complies

TX CH01



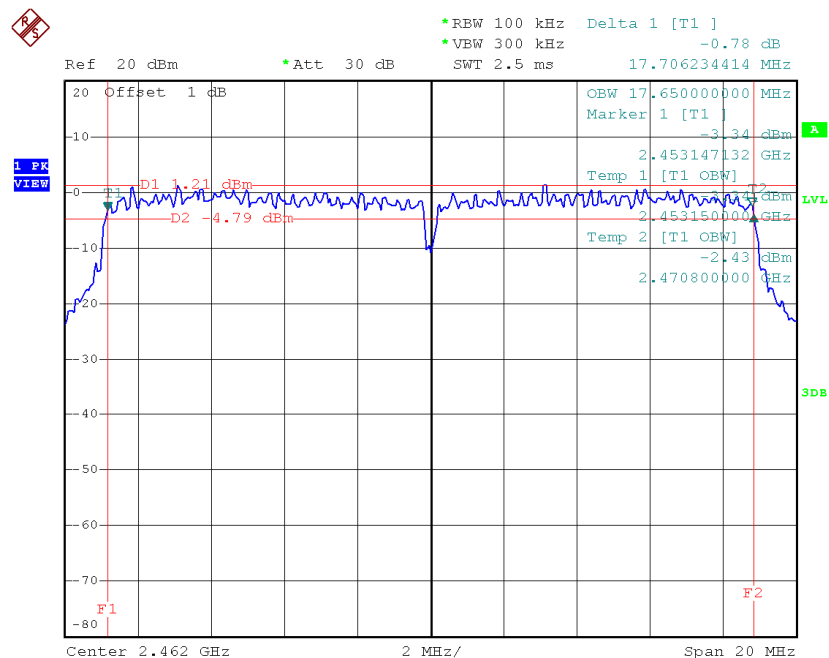
Date: 2.SEP.2014 09:08:27

TX CH06



Date: 2.SEP.2014 09:10:49

TX CH11

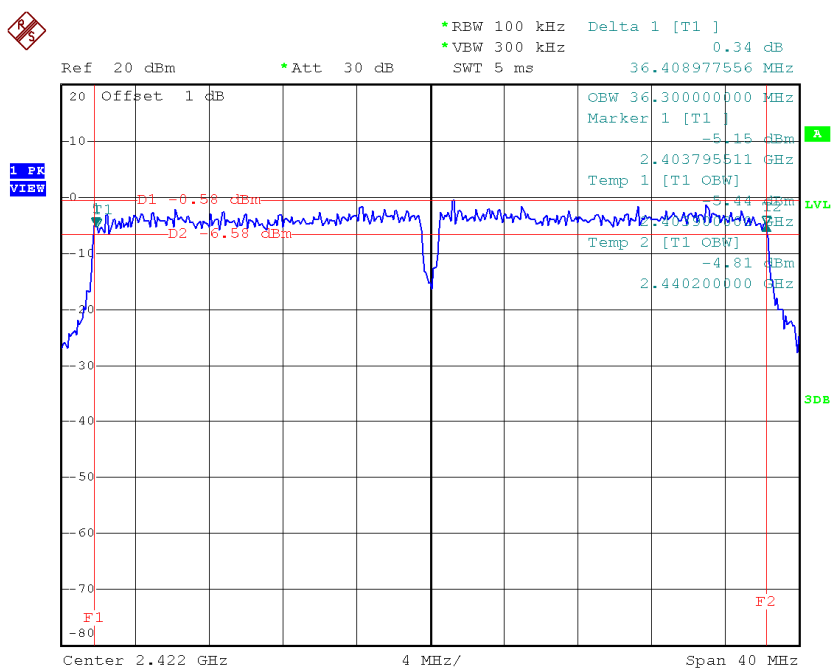


Date: 2.SEP.2014 09:15:13

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

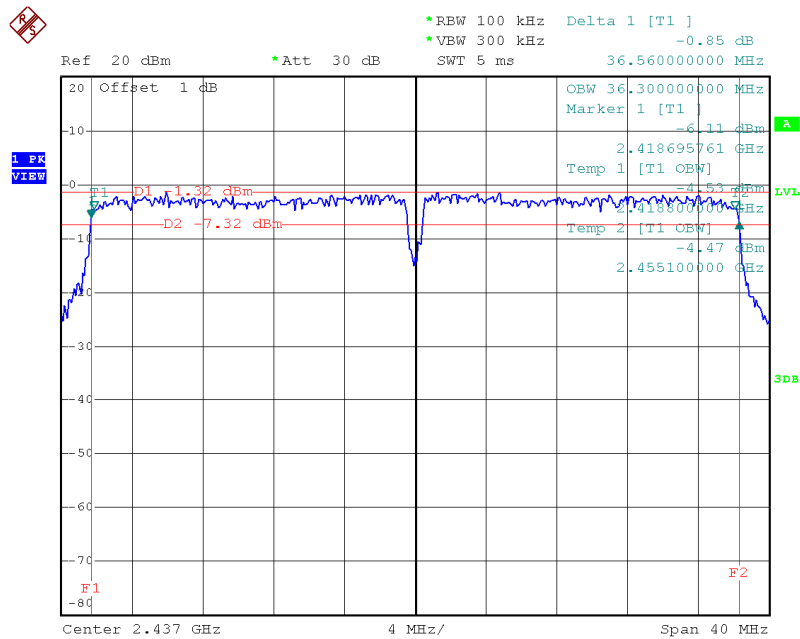
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2422 MHz	36.41	36.30	500	Complies
2437 MHz	36.56	36.30	500	Complies
2452 MHz	36.31	36.30	500	Complies

TX CH03



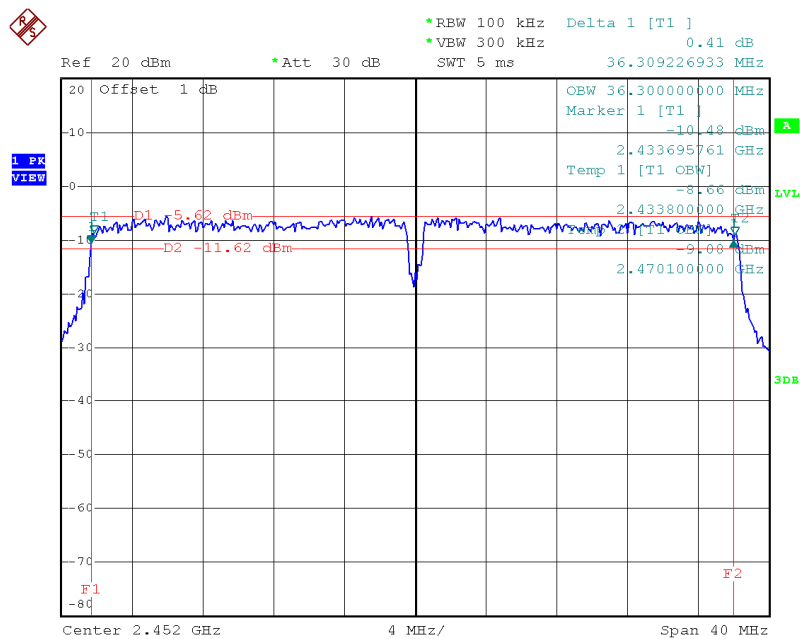
Date: 2.SEP.2014 09:16:50

TX CH06



Date: 2.SEP.2014 09:21:08

TX CH09

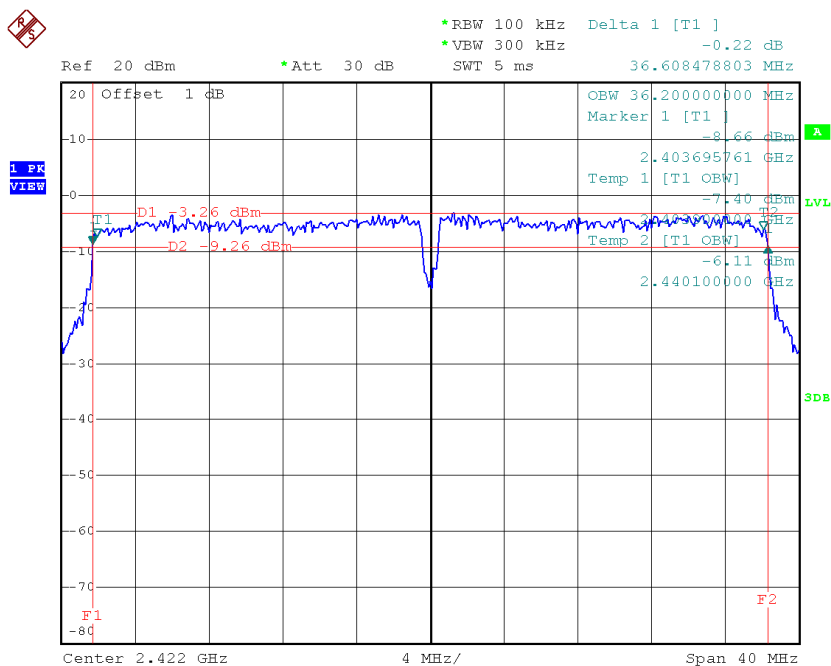


Date: 2.SEP.2014 09:25:35

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

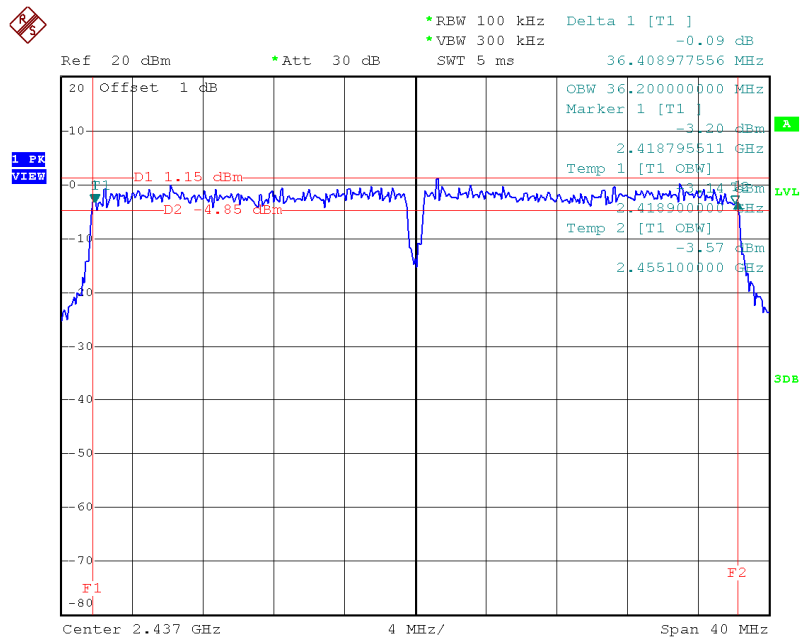
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2422 MHz	36.61	36.20	500	Complies
2437 MHz	36.41	36.20	500	Complies
2452 MHz	36.31	36.30	500	Complies

TX CH03



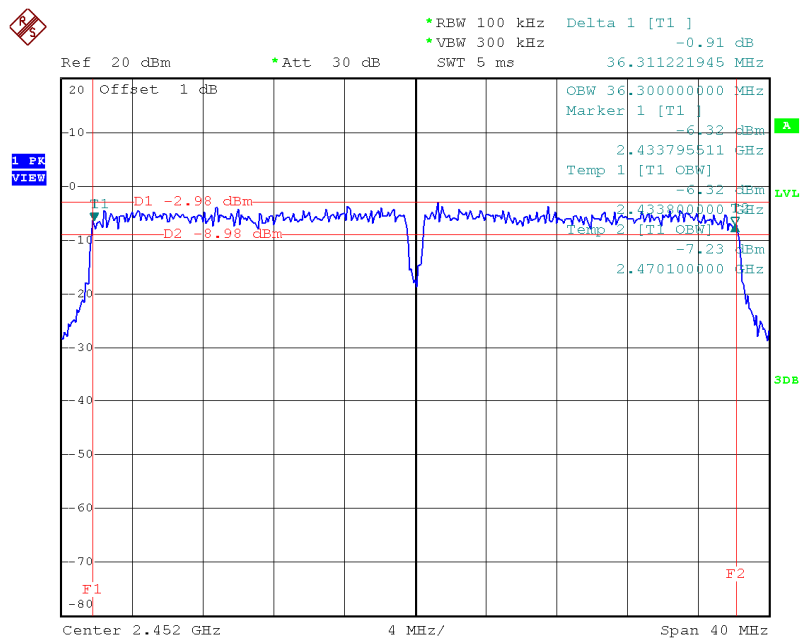
Date: 2.SEP.2014 09:18:27

TX CH06



Date: 2.SEP.2014 09:22:24

TX CH09



Date: 2.SEP.2014 09:24:04

ATTACHMENT F - MAXIMUM OUTPUT POWER

Test Mode : TX B Mode					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	21.33	0.1358	30.00	1.00	Complies
2437 MHz	21.17	0.1309	30.00	1.00	Complies
2462 MHz	20.13	0.1030	30.00	1.00	Complies

Test Mode : TX G Mode					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	21.18	0.1312	30.00	1.00	Complies
2437 MHz	22.56	0.1803	30.00	1.00	Complies
2462 MHz	20.78	0.1197	30.00	1.00	Complies

Test Mode : TX N-20M Mode ANT 1					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	20.05	0.1012	30.00	1.00	Complies
2437 MHz	19.86	0.0968	30.00	1.00	Complies
2462 MHz	18.97	0.0789	30.00	1.00	Complies

Test Mode : TX N-20M Mode ANT 2					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	20.03	0.1007	30.00	1.00	Complies
2437 MHz	20.74	0.1186	30.00	1.00	Complies
2462 MHz	19.53	0.0897	30.00	1.00	Complies

Test Mode : TX N-20M Mode Total					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	23.05	0.2019	30.00	1.00	Complies
2437 MHz	23.33	0.2154	30.00	1.00	Complies
2462 MHz	22.27	0.1686	30.00	1.00	Complies

Test Mode : TX N-40M Mode ANT 1					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2422 MHz	19.27	0.0845	30.00	1.00	Complies
2437 MHz	19.91	0.0979	30.00	1.00	Complies
2452 MHz	17.35	0.0543	30.00	1.00	Complies

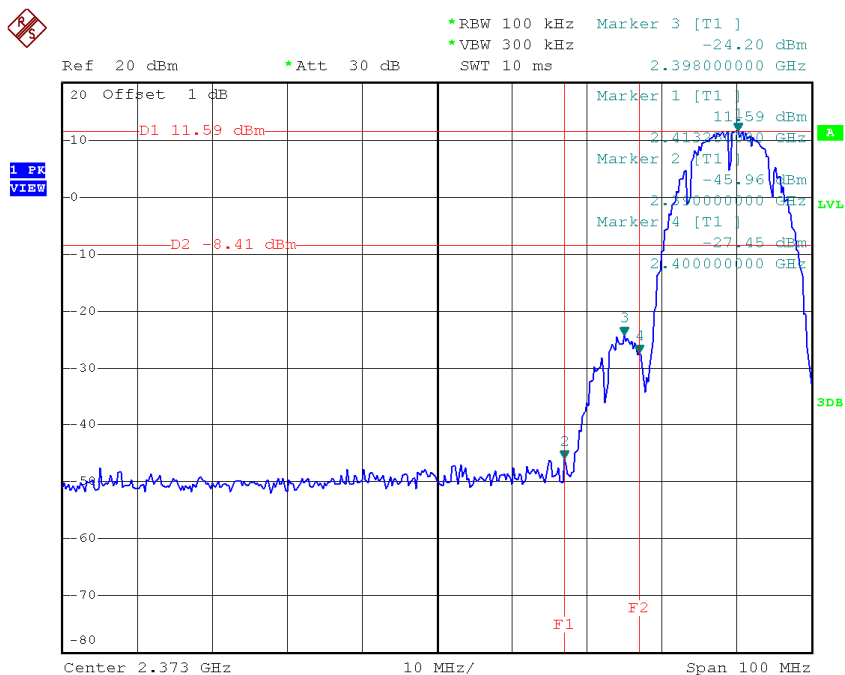
Test Mode : TX N-40M Mode ANT 2					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2422 MHz	19.78	0.0951	30.00	1.00	Complies
2437 MHz	20.36	0.1086	30.00	1.00	Complies
2452 MHz	18.36	0.0685	30.00	1.00	Complies

Test Mode : TX N-40M Mode Total					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2422 MHz	22.54	0.1796	30.00	1.00	Complies
2437 MHz	23.15	0.2066	30.00	1.00	Complies
2452 MHz	20.89	0.1229	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

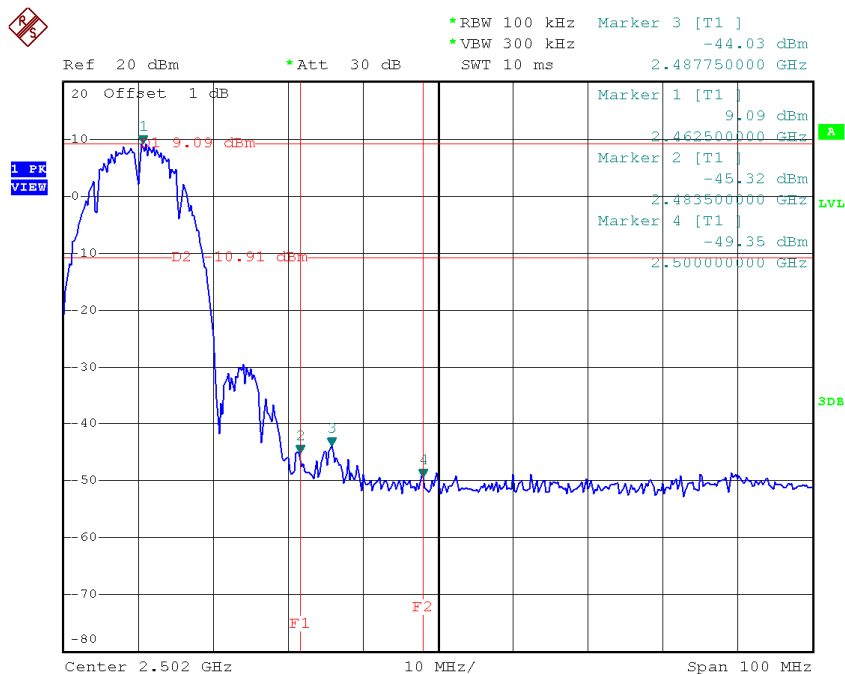
Test Mode :	TX B Mode
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TX B mode CH01



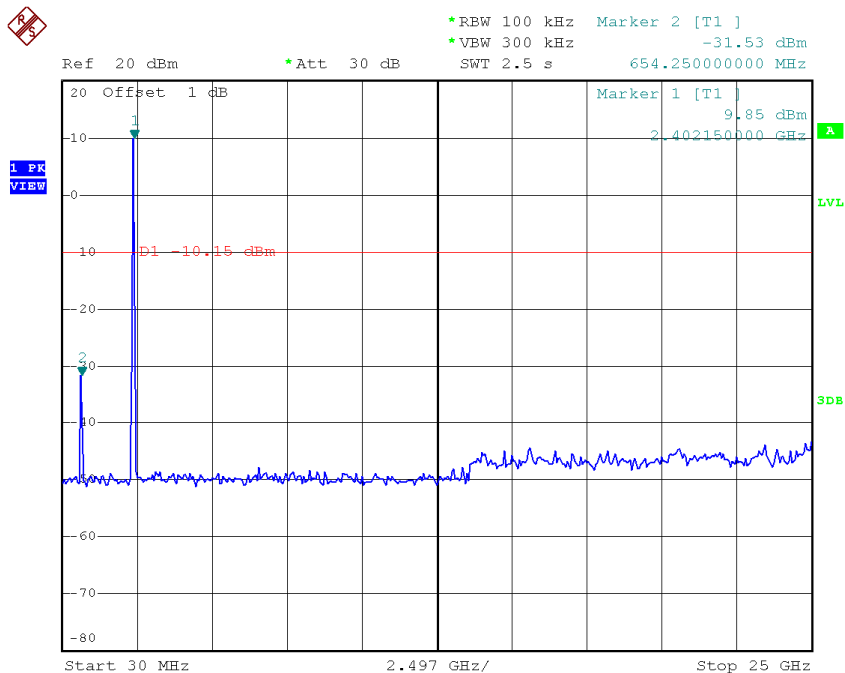
Date: 2.SEP.2014 08:54:45

TX B mode CH11



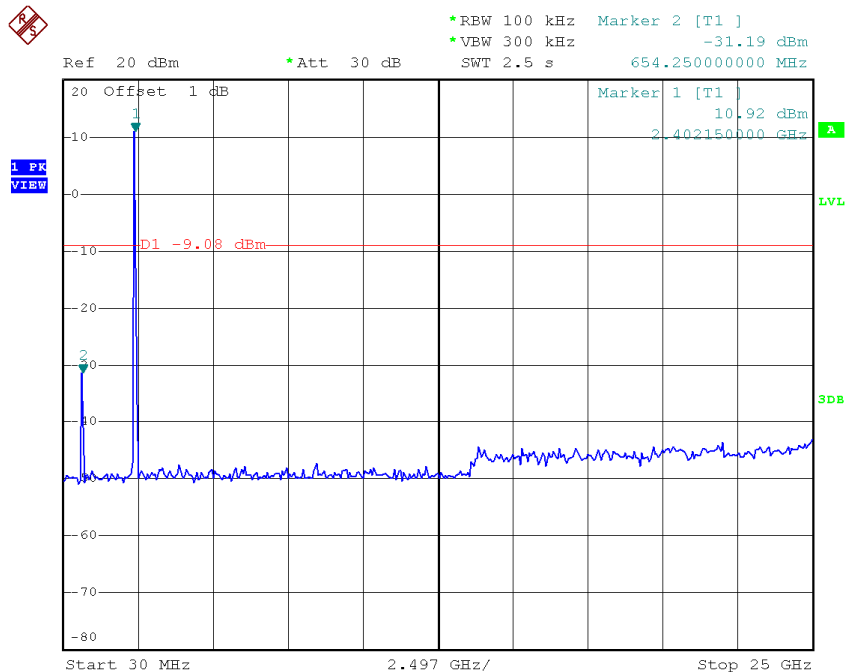
Date: 2.SEP.2014 08:58:53

TX B mode CH01 (10 Harmonic of the frequency)



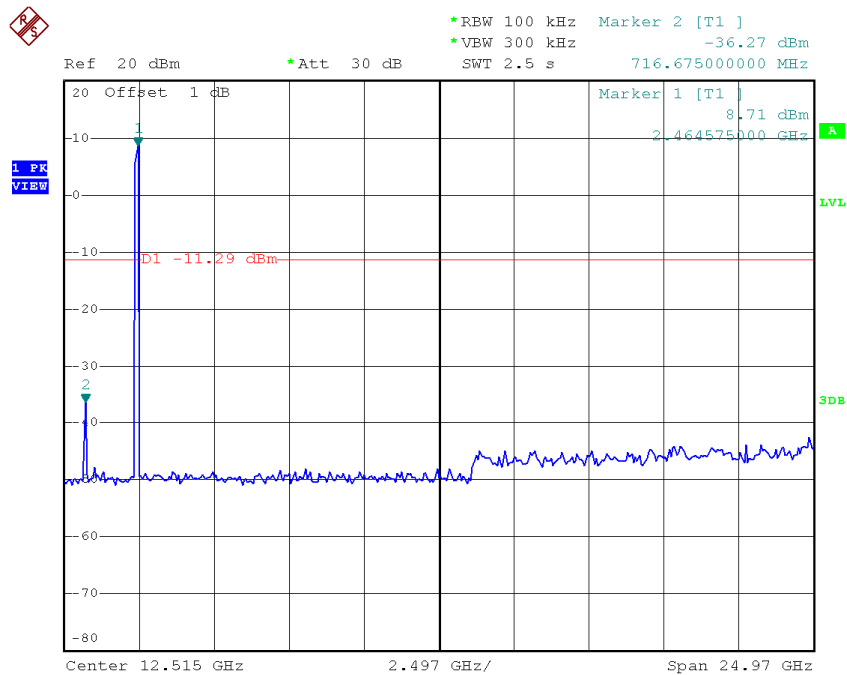
Date: 2.SEP.2014 08:54:09

TX B mode CH06 (10 Harmonic of the frequency)



Date: 2.SEP.2014 08:56:13

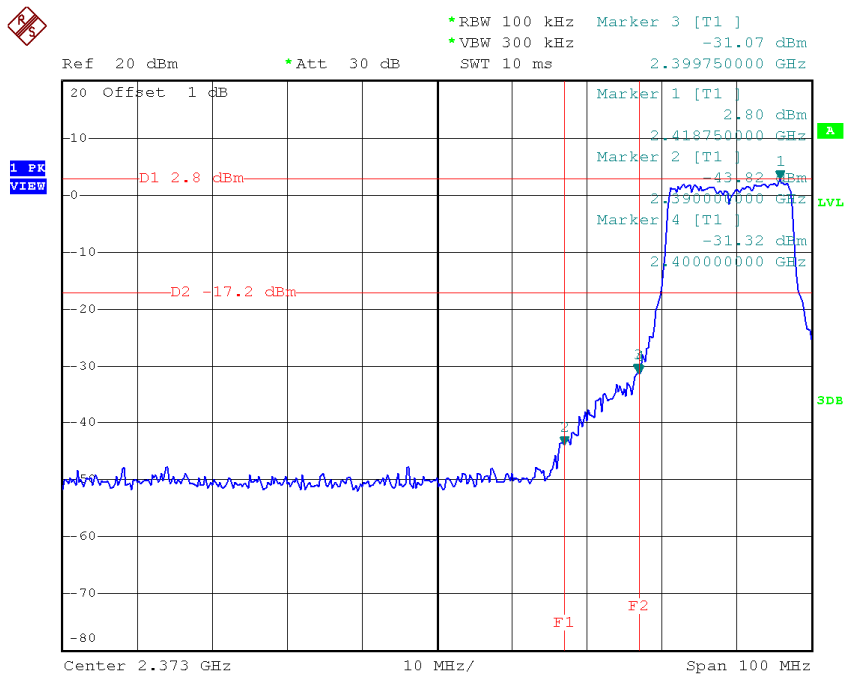
TX B mode CH11 (10 Harmonic of the frequency)



Date: 2.SEP.2014 08:58:03

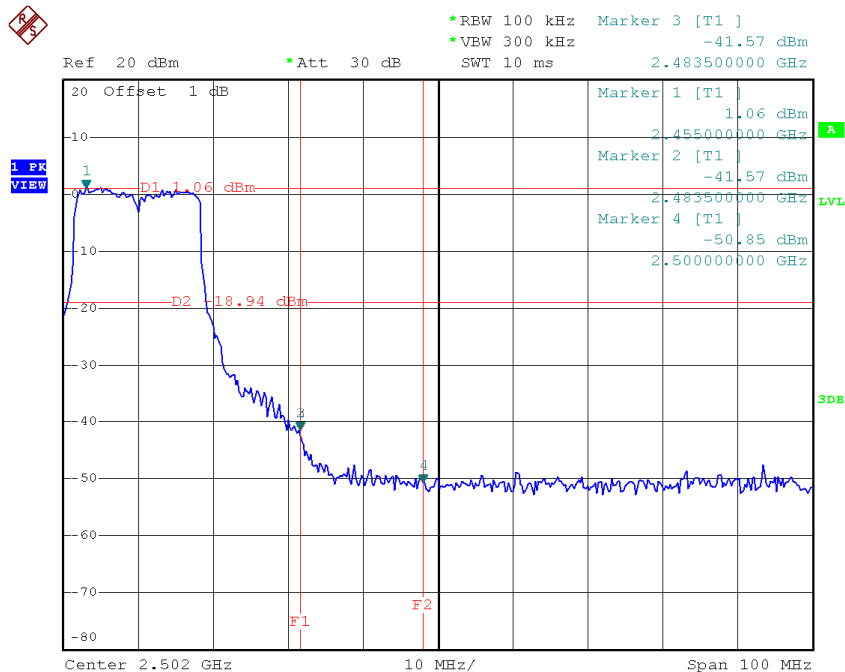
Test Mode :	TX G Mode
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TX G mode CH01



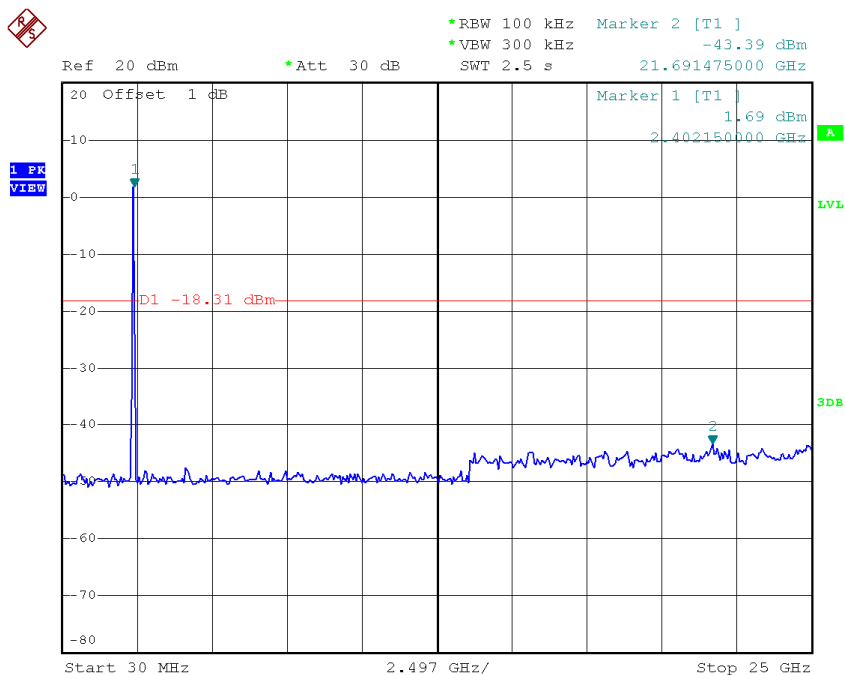
Date: 2.SEP.2014 09:00:48

TX G mode CH11



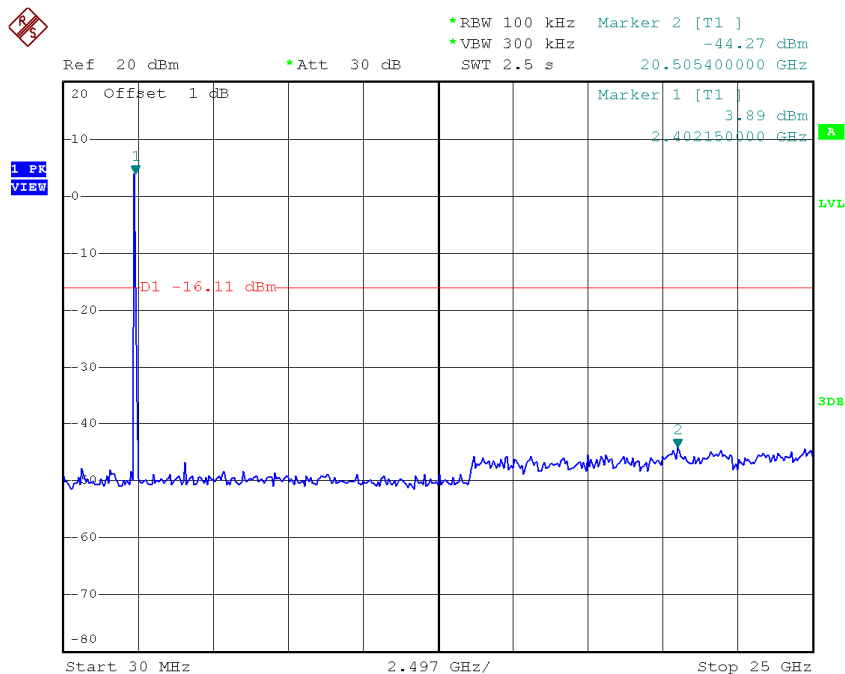
Date: 2.SEP.2014 09:03:33

TX G mode CH01 (10 Harmonic of the frequency)



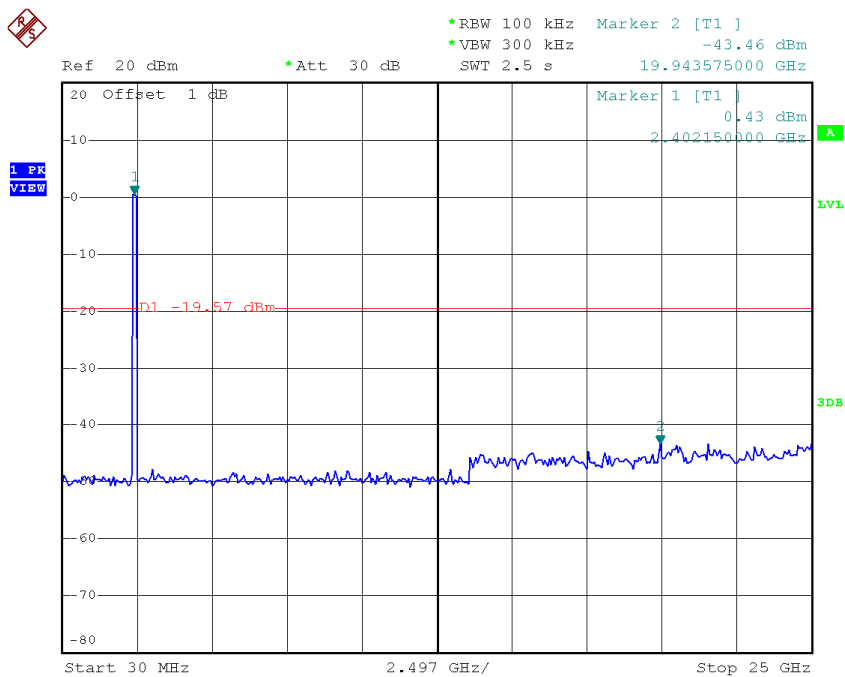
Date: 2.SEP.2014 09:00:09

TX G mode CH06 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:01:43

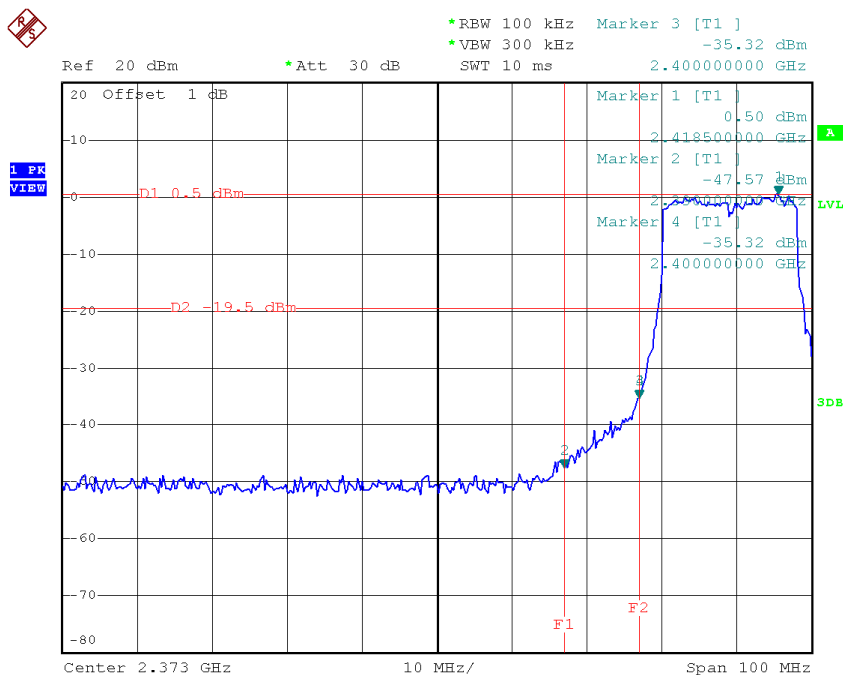
TX G mode CH11 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:03:00

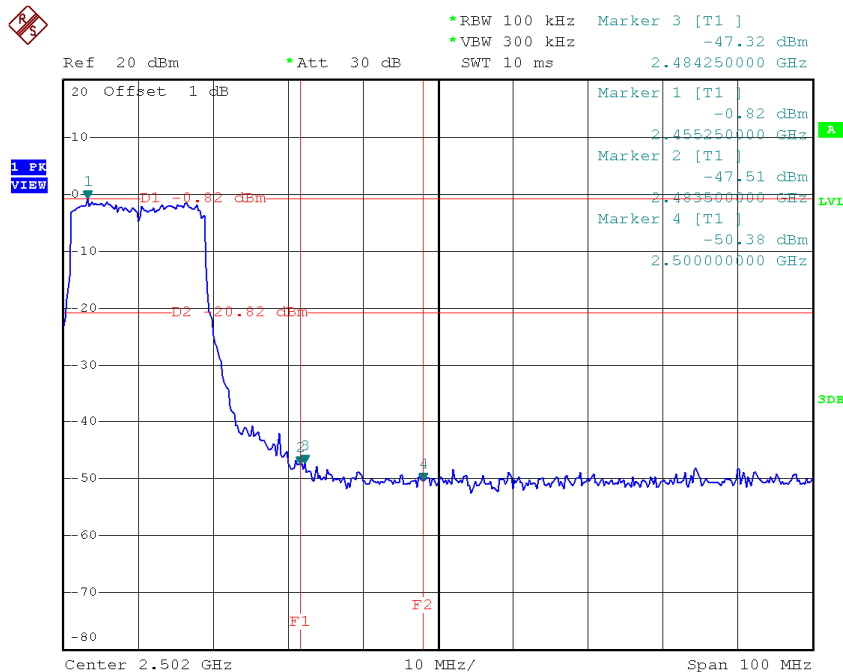
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01



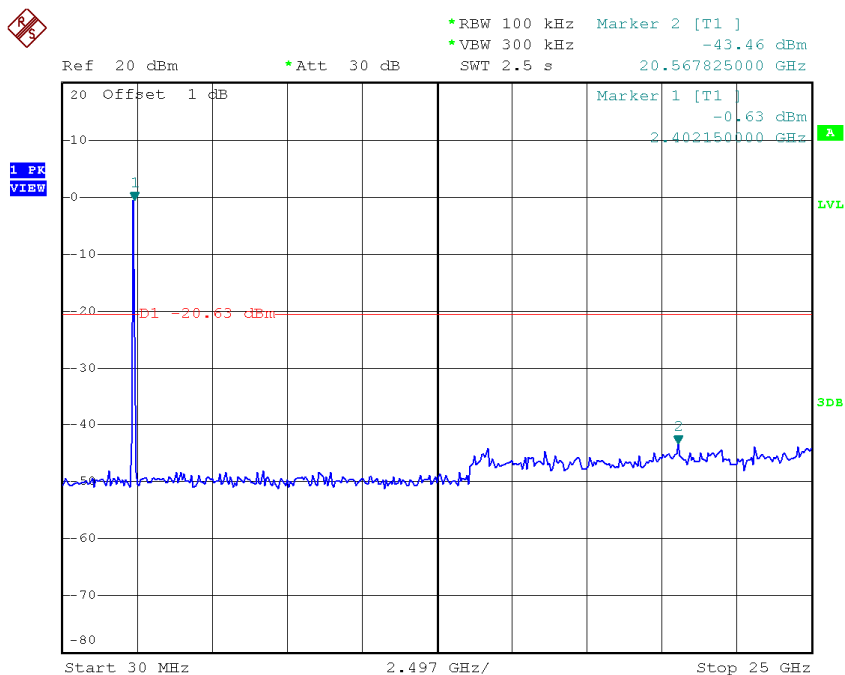
Date: 2.SEP.2014 09:06:35

TX HT20 mode CH11



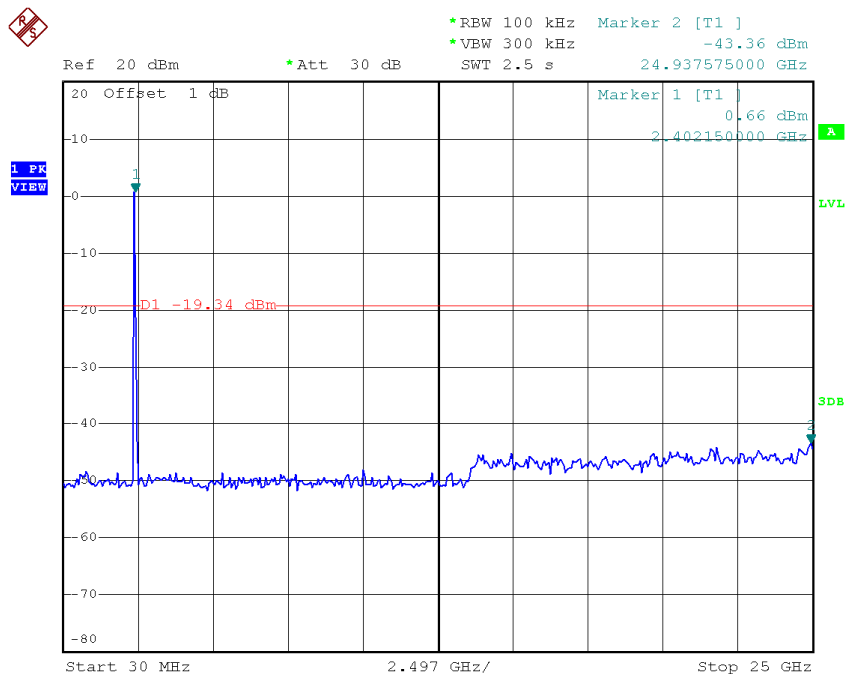
Date: 2.SEP.2014 09:13:56

TX HT20 mode CH01 (10 Harmonic of the frequency)



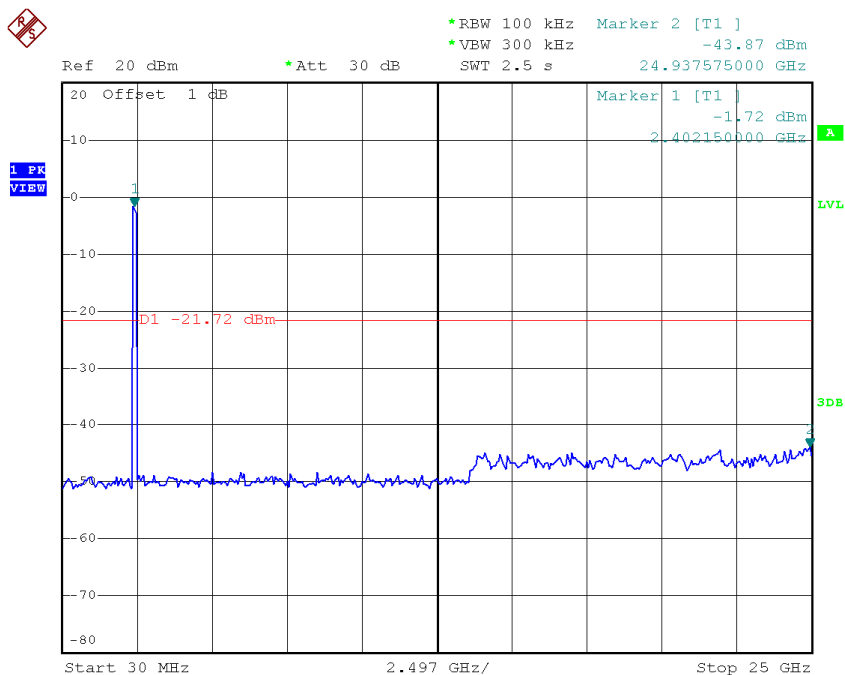
Date: 2.SEP.2014 09:06:06

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:11:43

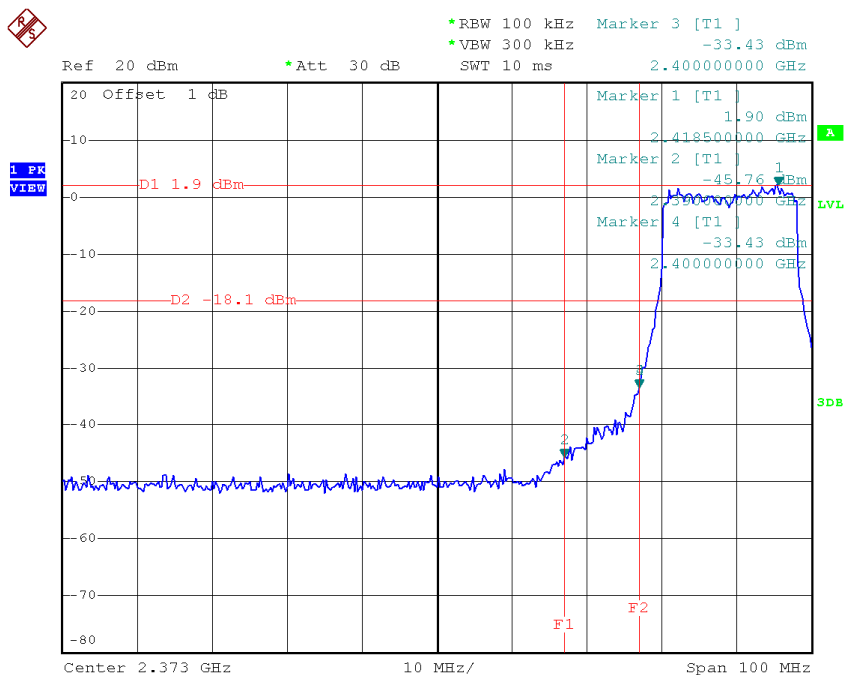
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:13:20

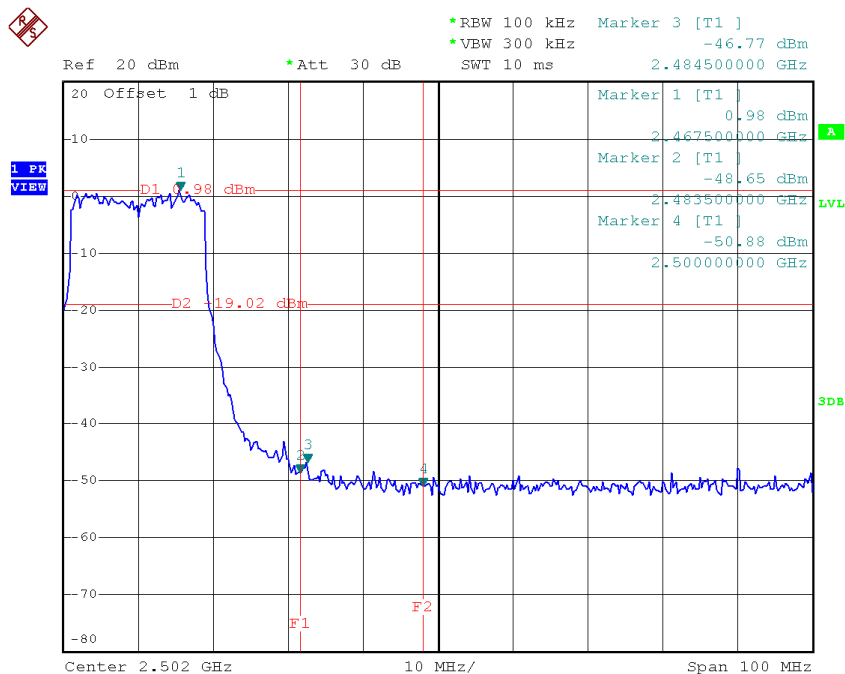
Test Mode :	TX N-20M Mode_ANT 2
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TX HT20 mode CH01



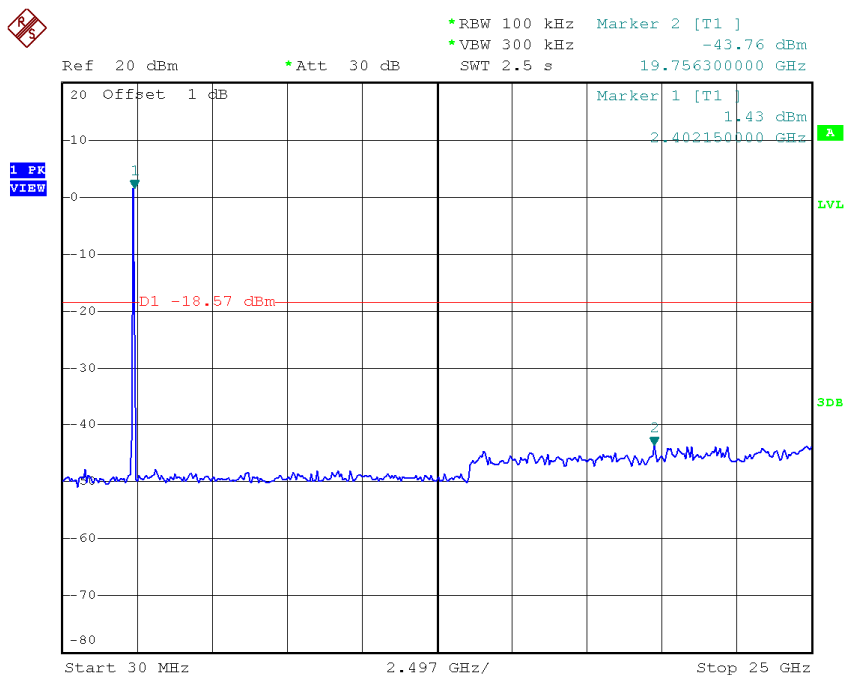
Date: 2.SEP.2014 09:08:47

TX HT20 mode CH11



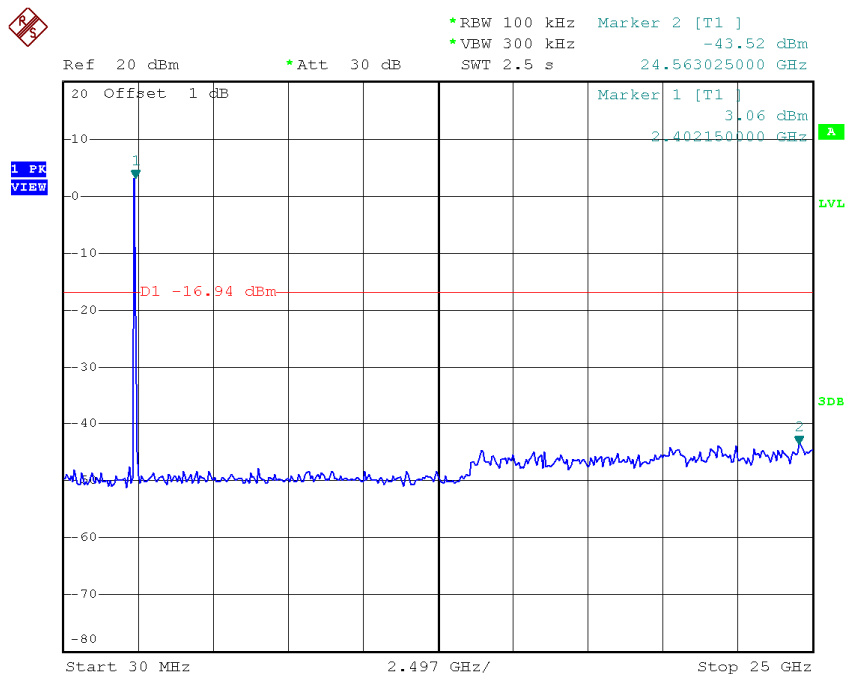
Date: 2.SEP.2014 09:15:25

TX HT20 mode CH01 (10 Harmonic of the frequency)



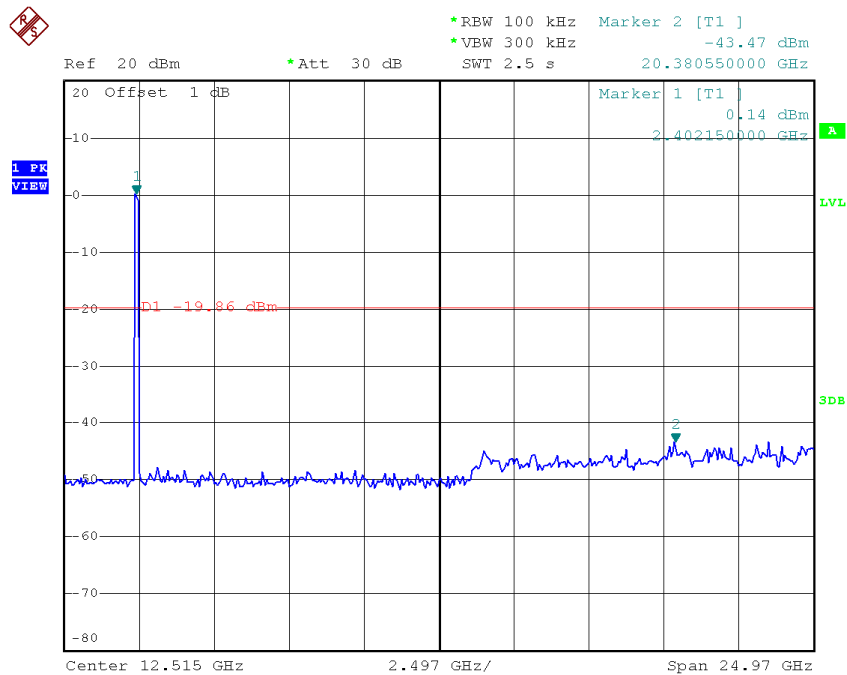
Date: 2.SEP.2014 09:07:56

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:10:32

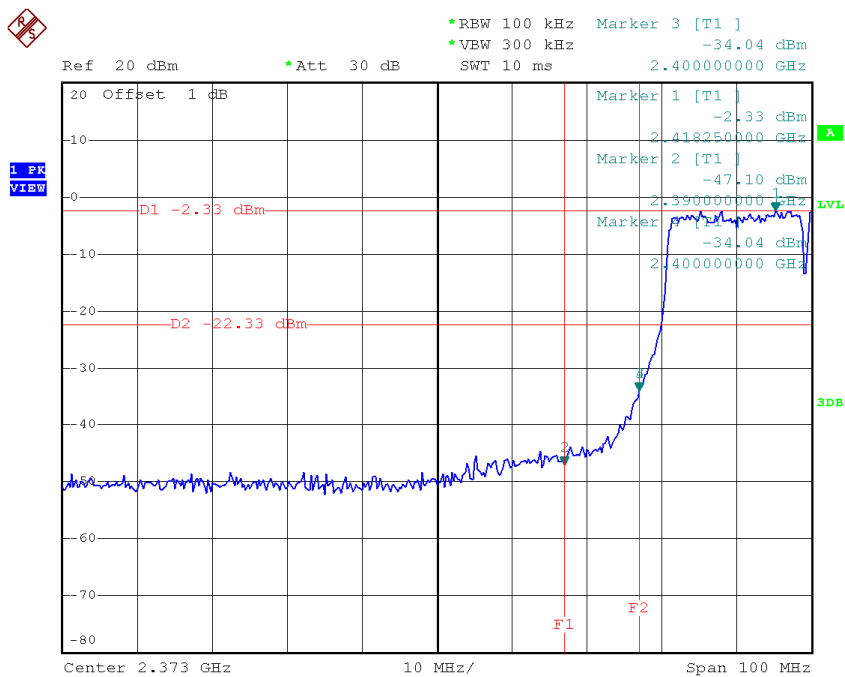
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:14:47

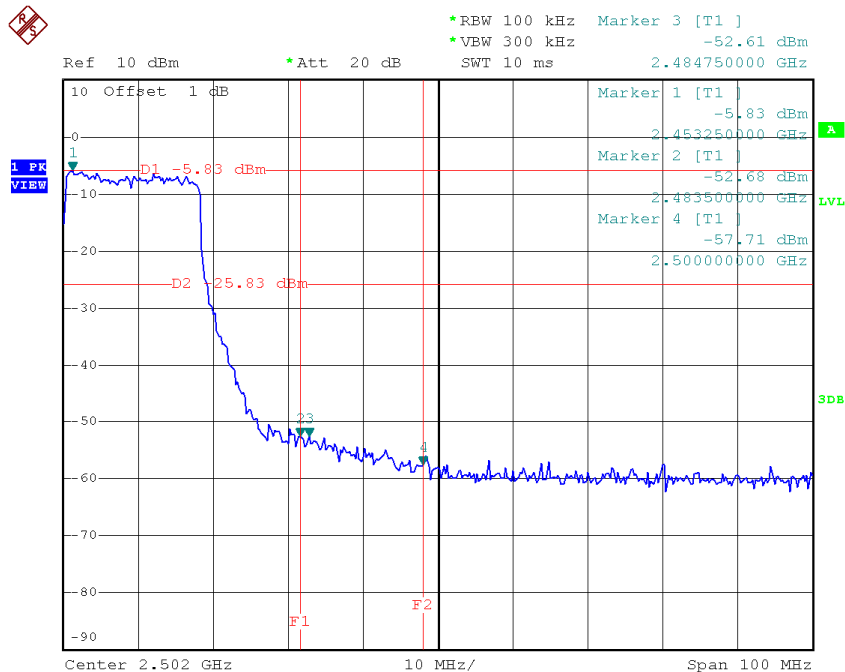
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



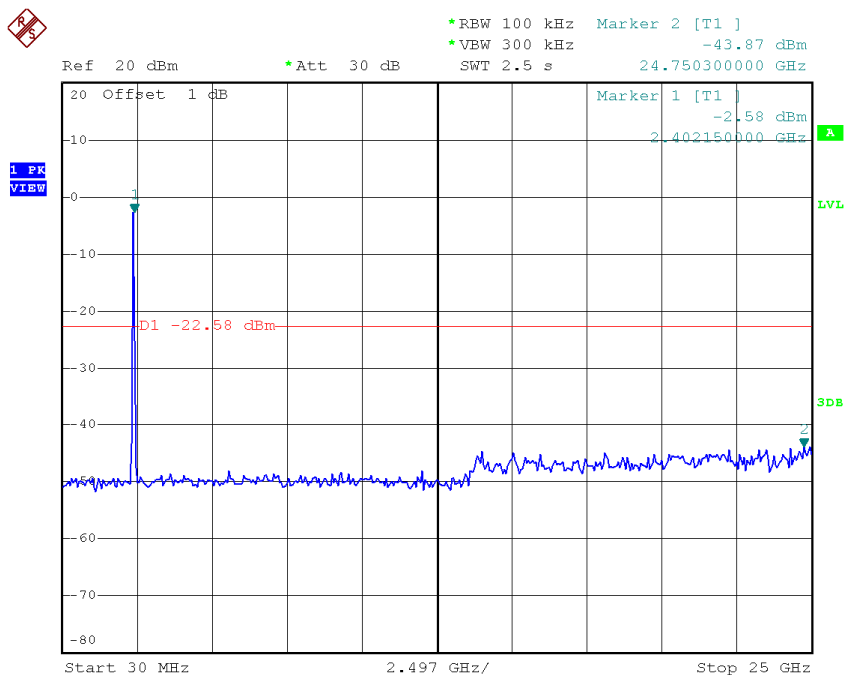
Date: 2.SEP.2014 09:17:04

TX HT40 mode CH09



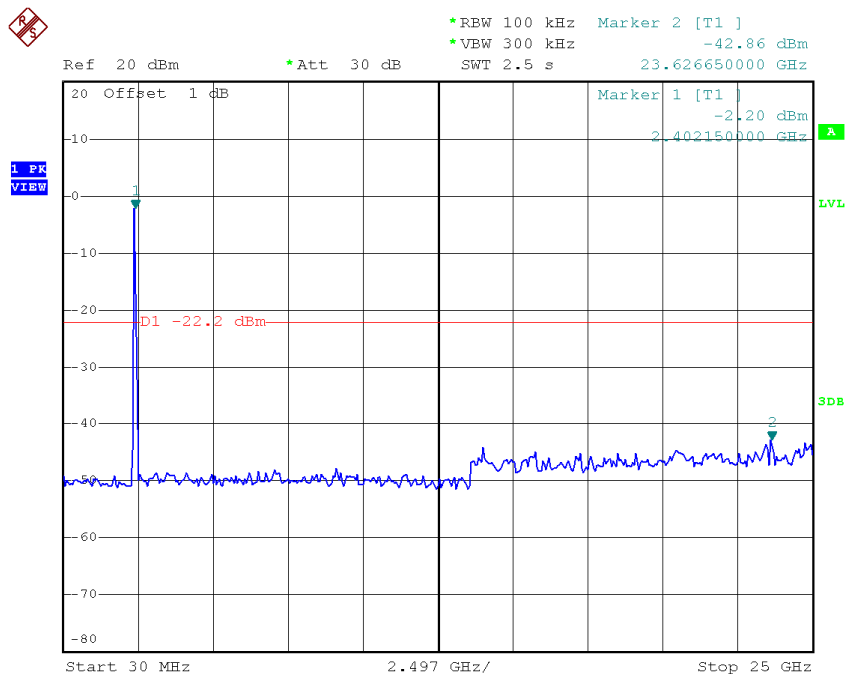
Date: 2.SEP.2014 09:25:49

TX HT40 mode CH03 (10 Harmonic of the frequency)



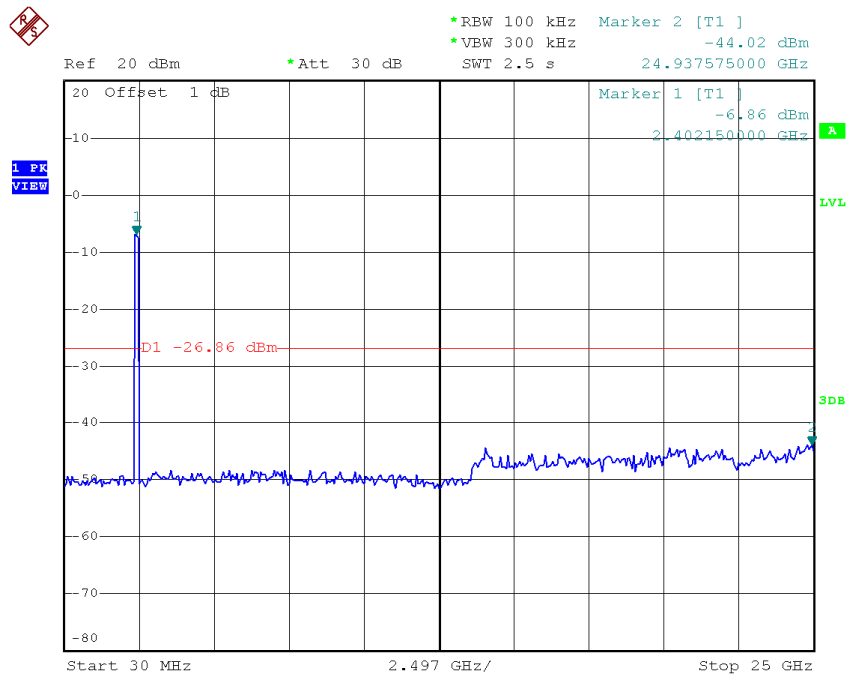
Date: 2.SEP.2014 09:16:33

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:19:41

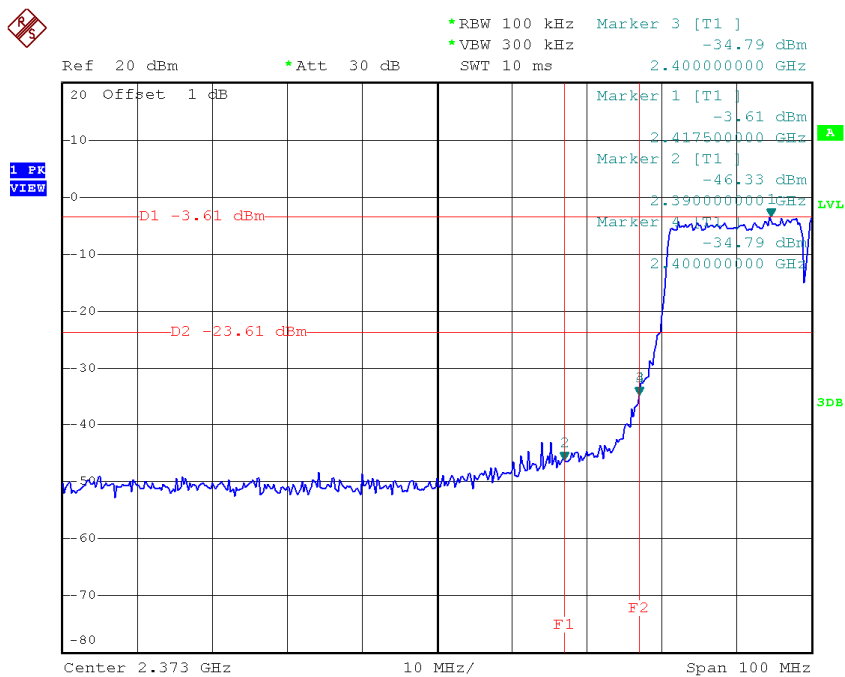
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:25:20

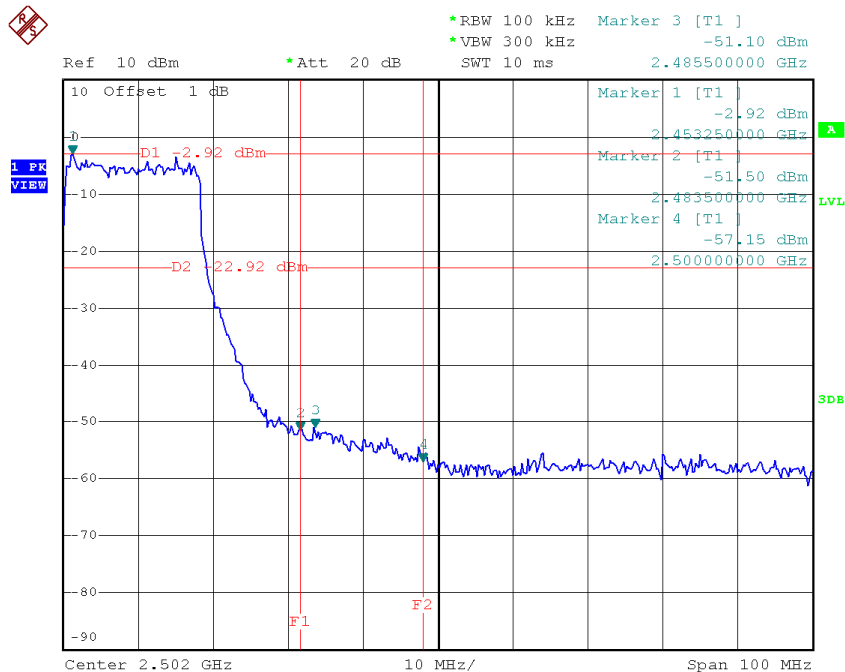
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH03



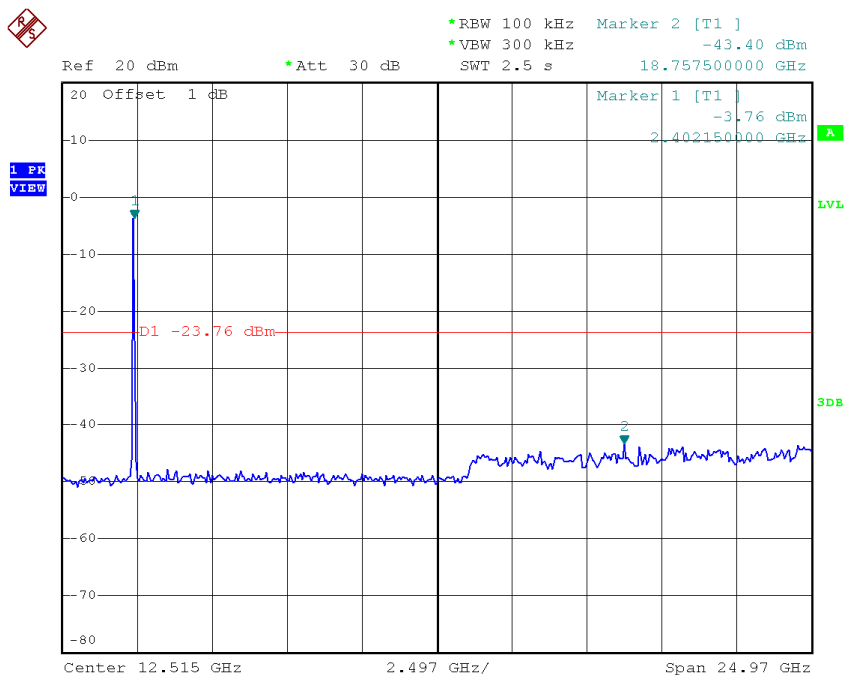
Date: 2.SEP.2014 09:18:42

TX HT40 mode CH09



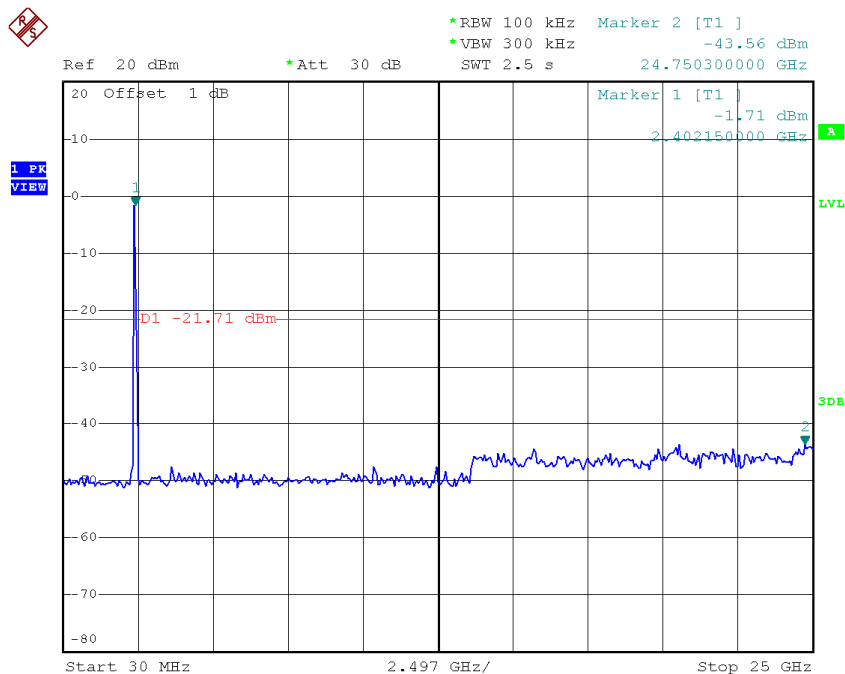
Date: 2.SEP.2014 09:24:18

TX HT40 mode CH03 (10 Harmonic of the frequency)



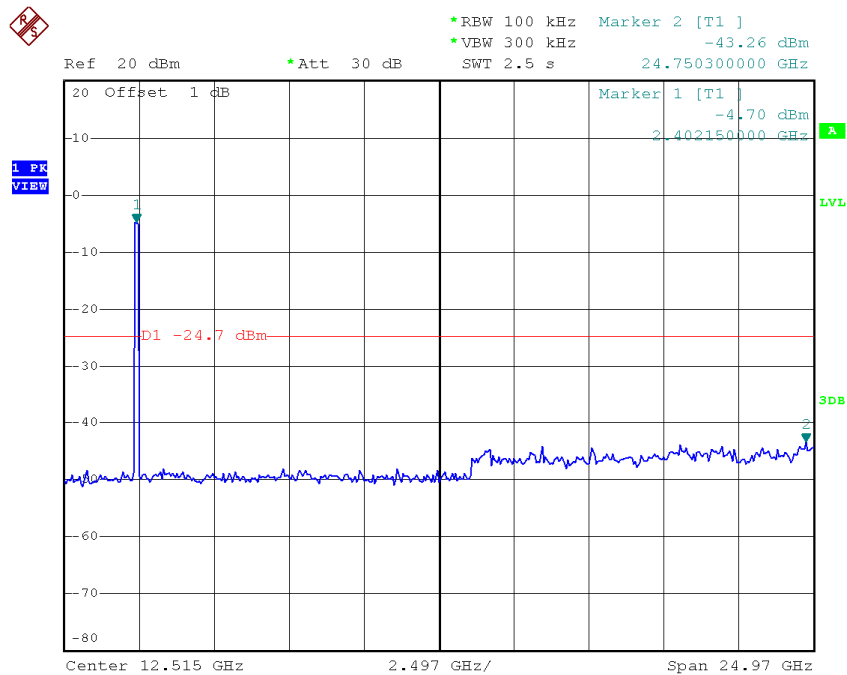
Date: 2.SEP.2014 09:18:12

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 2.SEP.2014 09:22:08

TX HT40 mode CH09 (10 Harmonic of the frequency)



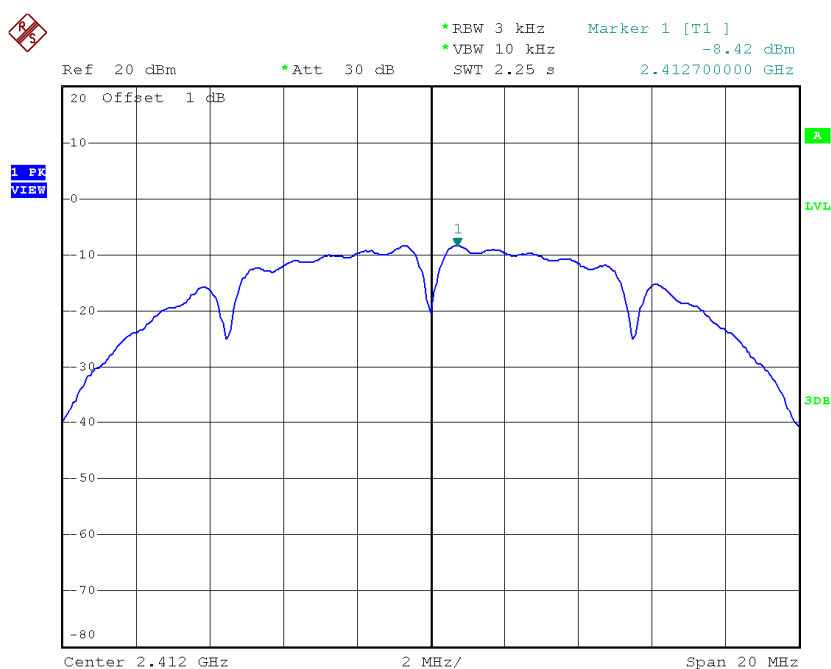
Date: 2.SEP.2014 09:23:41

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

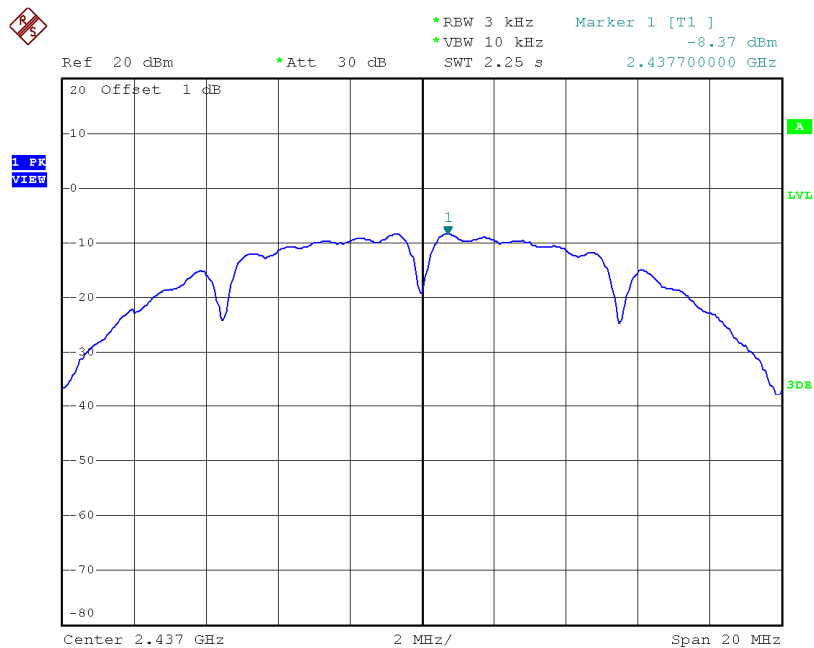
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-8.42	0.14	8.00	Complies
2437 MHz	-8.37	0.15	8.00	Complies
2462 MHz	-10.83	0.08	8.00	Complies

TX CH01



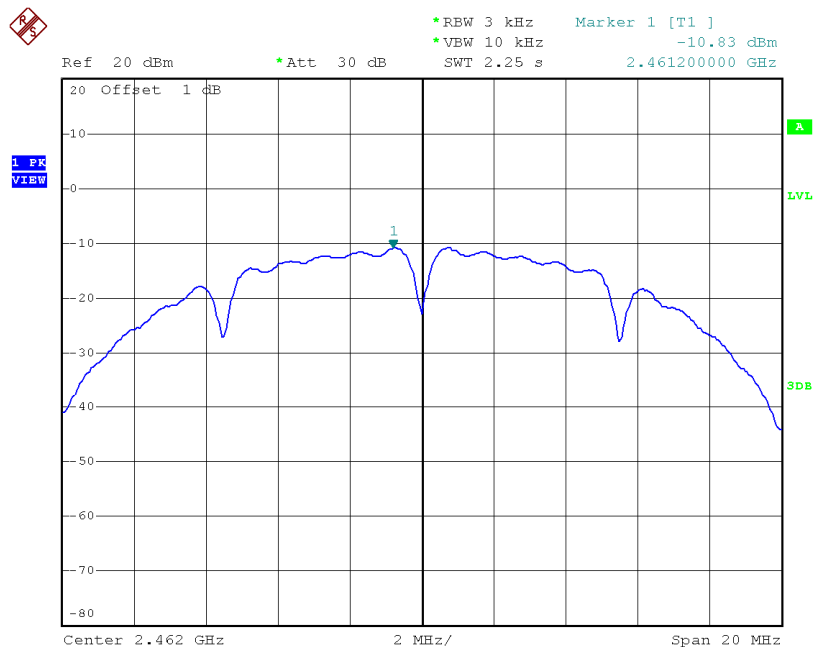
Date: 2.SEP.2014 08:55:25

TX CH06



Date: 2.SEP.2014 08:57:09

TX CH11

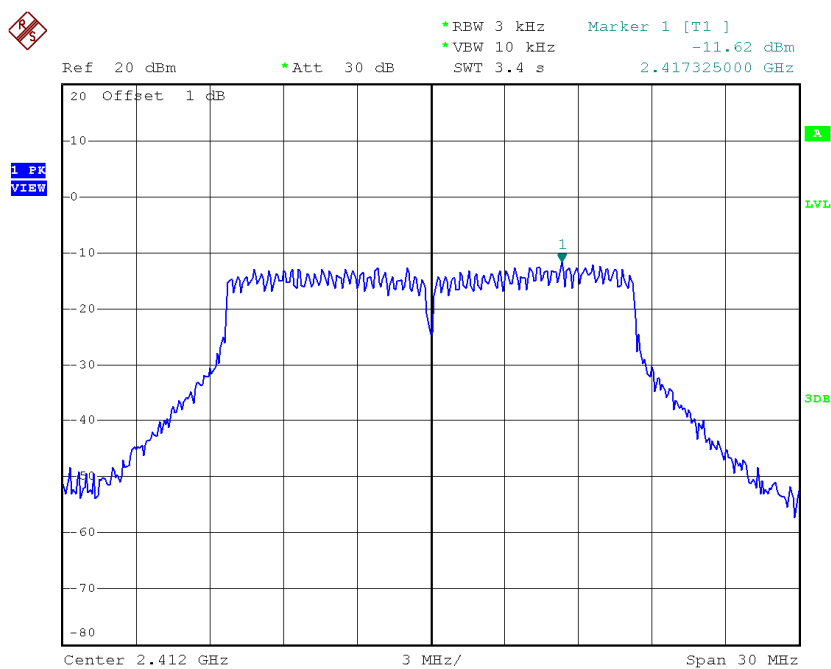


Date: 2.SEP.2014 08:59:06

Test Mode :TX G Mode_CH01/06/11

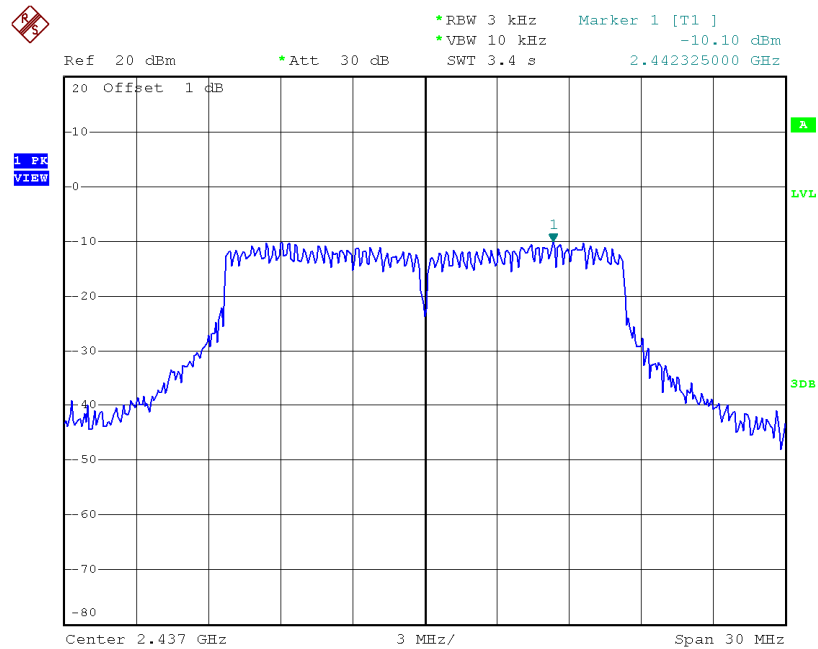
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-11.62	0.07	8.00	Complies
2437 MHz	-10.10	0.10	8.00	Complies
2462 MHz	-13.33	0.05	8.00	Complies

TX CH01



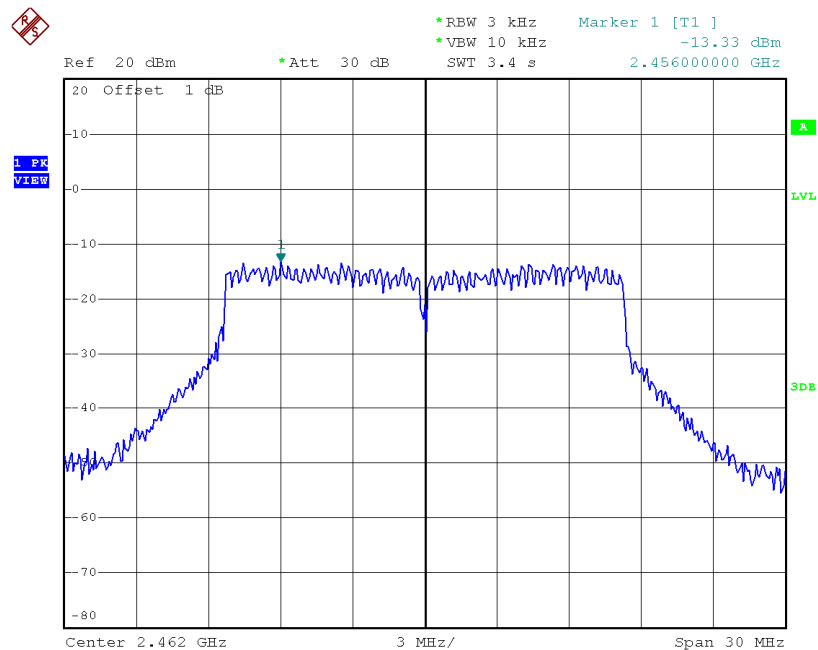
Date: 2.SEP.2014 09:01:04

TX CH06



Date: 2.SEP.2014 09:02:16

TX CH11

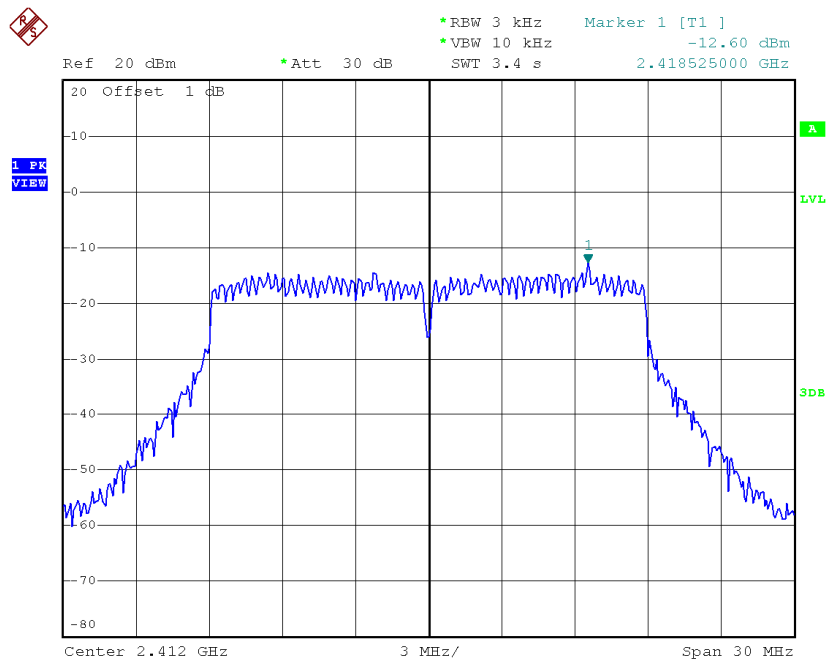


Date: 2.SEP.2014 09:03:49

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

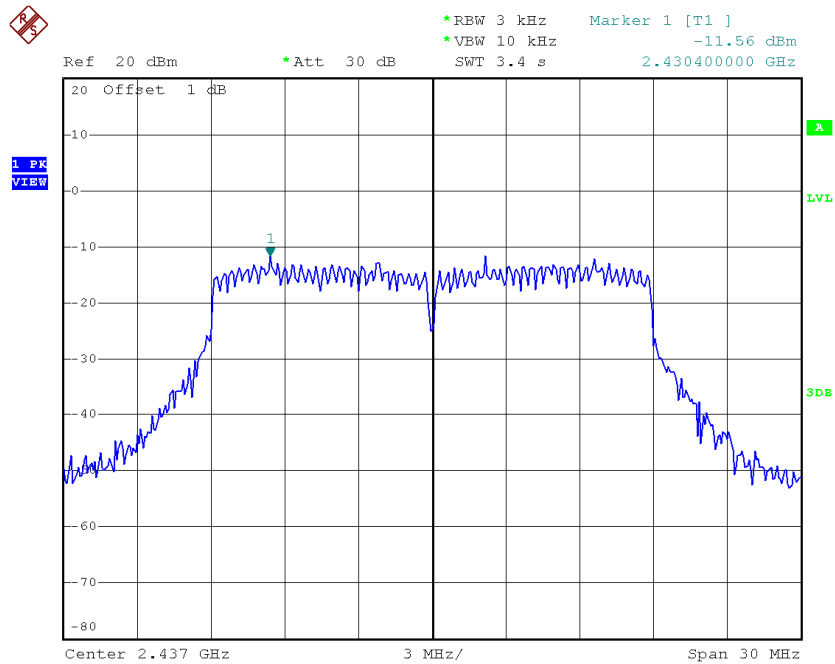
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-12.60	0.05	8.00	Complies
2437 MHz	-11.56	0.07	8.00	Complies
2462 MHz	-14.73	0.03	8.00	Complies

TX CH01



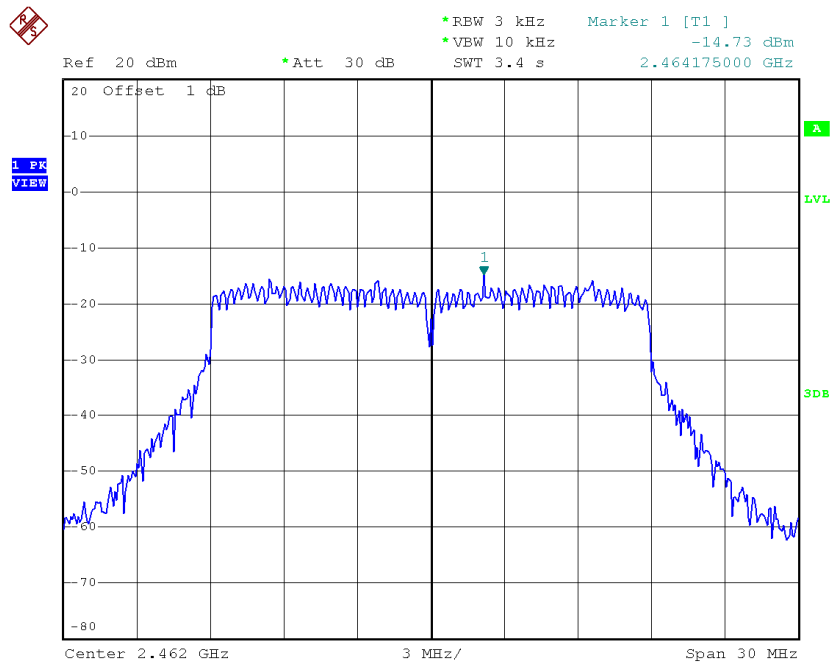
Date: 2.SEP.2014 09:06:54

TX CH06



Date: 2.SEP.2014 09:12:16

TX CH11

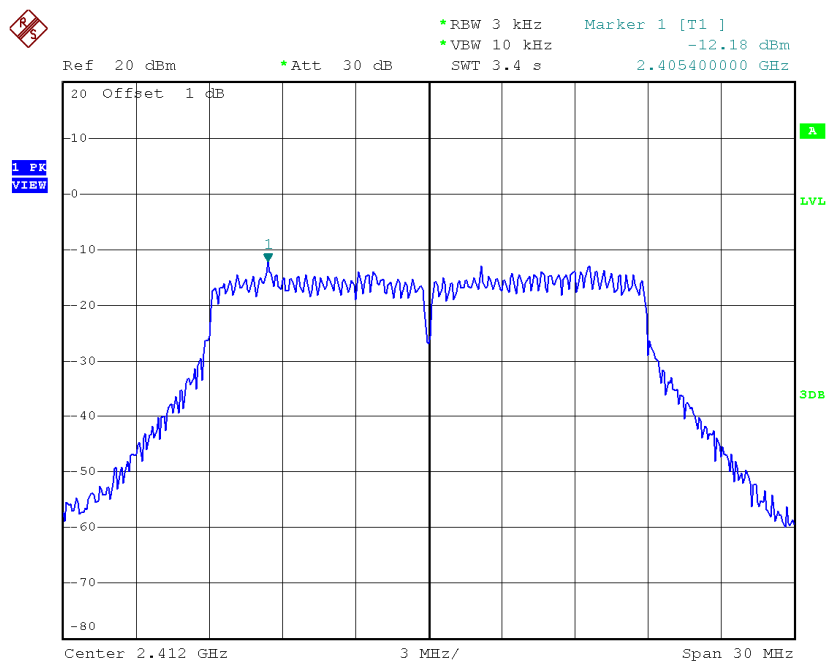


Date: 2.SEP.2014 09:14:09

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

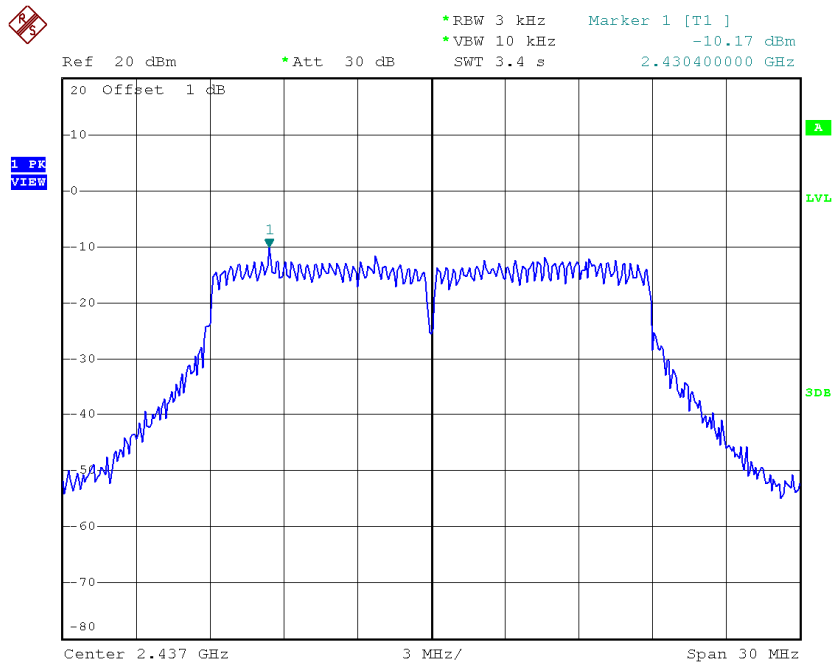
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-12.18	0.06	8.00	Complies
2437 MHz	-10.17	0.10	8.00	Complies
2462 MHz	-12.37	0.06	8.00	Complies

TX CH01



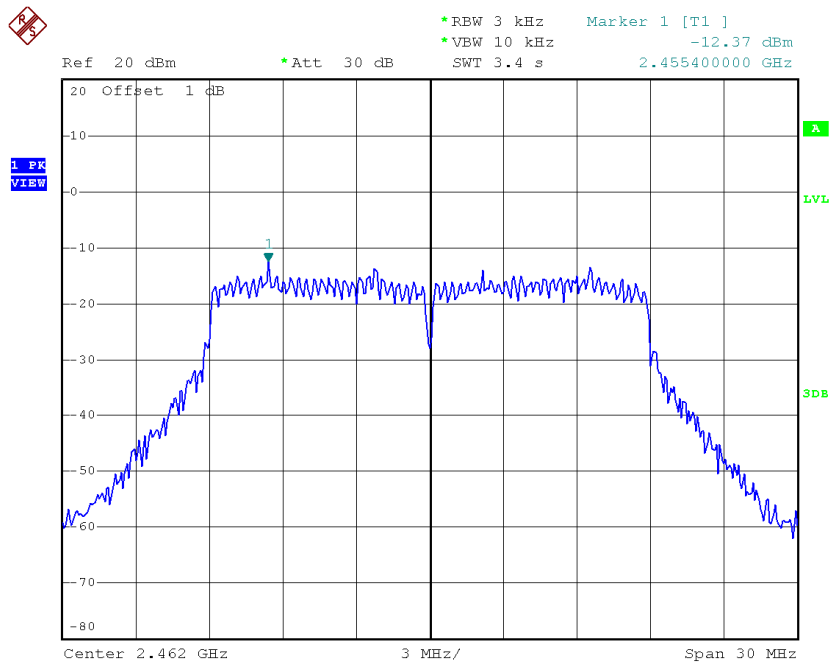
Date: 2.SEP.2014 09:09:05

TX CH06



Date: 2.SEP.2014 09:11:03

TX CH11



Date: 2.SEP.2014 09:15:39

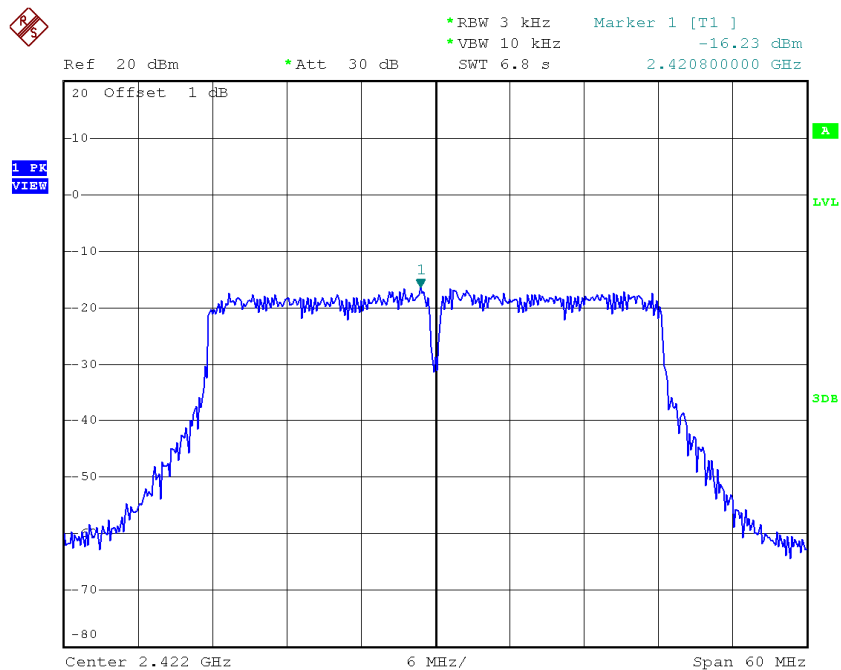
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-9.37	0.12	8.00	Complies
2437 MHz	-7.80	0.17	8.00	Complies
2462 MHz	-10.38	0.09	8.00	Complies

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

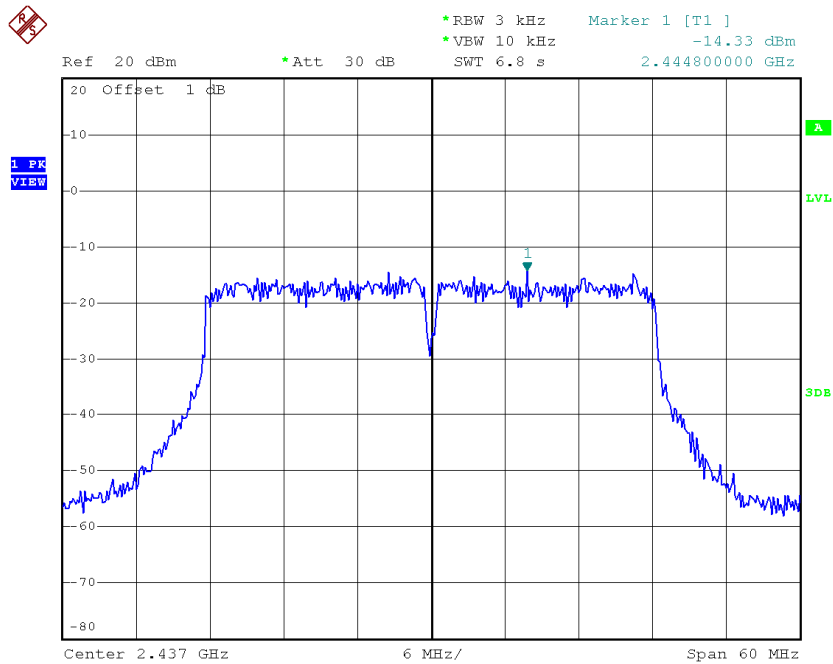
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2422 MHz	-16.23	0.02	8.00	Complies
2437 MHz	-14.33	0.04	8.00	Complies
2452 MHz	-18.58	0.01	8.00	Complies

TX CH03



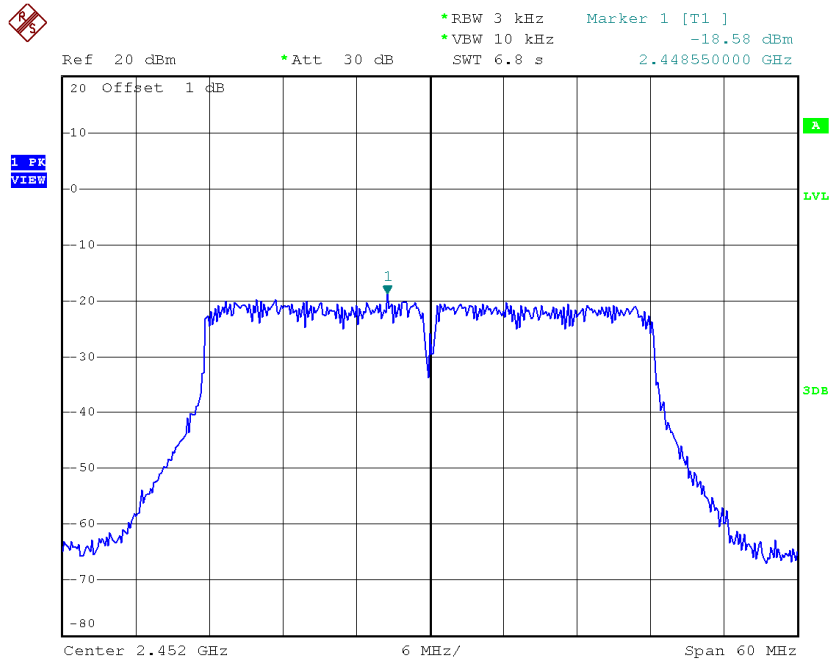
Date: 2.SEP.2014 09:17:21

TX CH06



Date: 2.SEP.2014 09:21:26

TX CH09

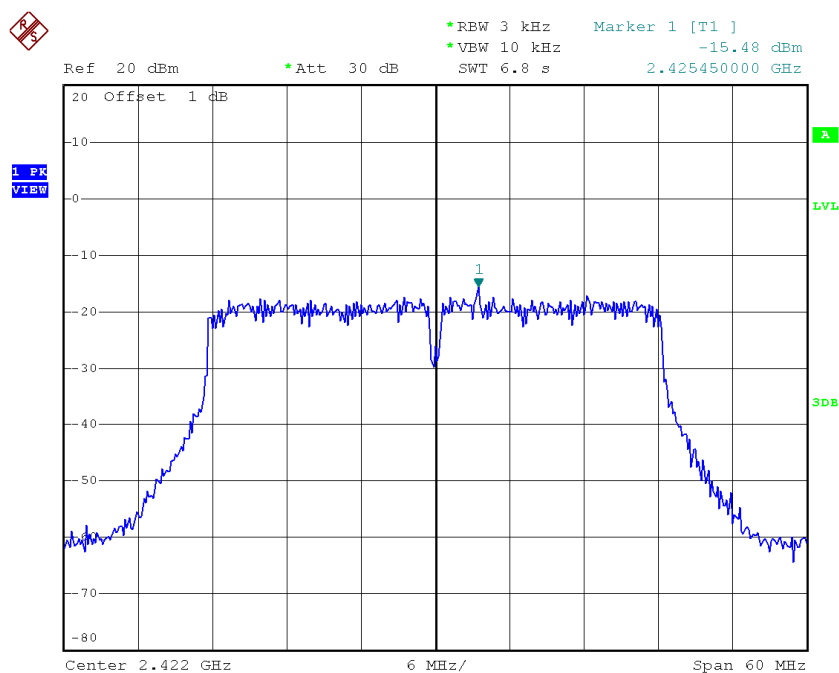


Date: 2.SEP.2014 09:26:05

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

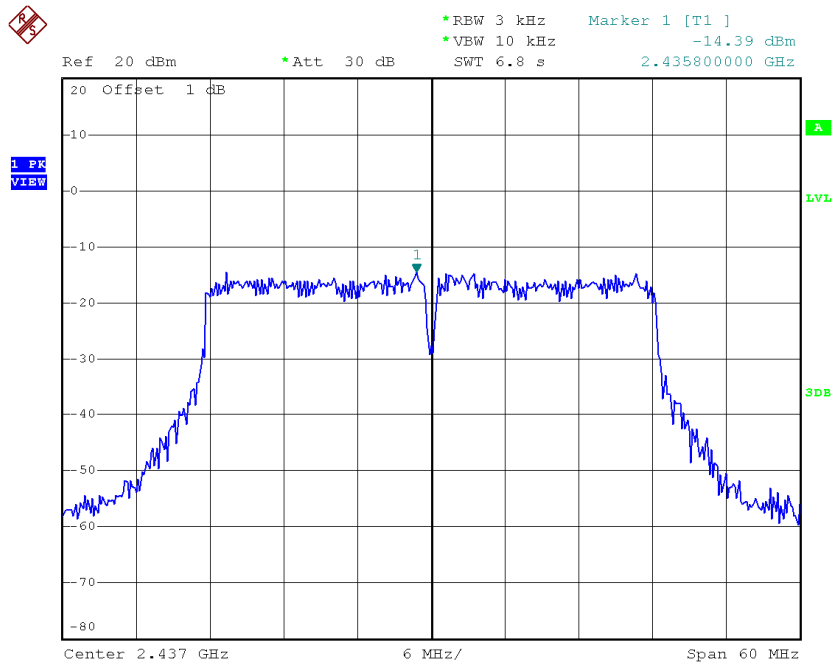
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2422 MHz	-15.48	0.03	8.00	Complies
2437 MHz	-14.39	0.04	8.00	Complies
2452 MHz	-18.02	0.02	8.00	Complies

TX CH03



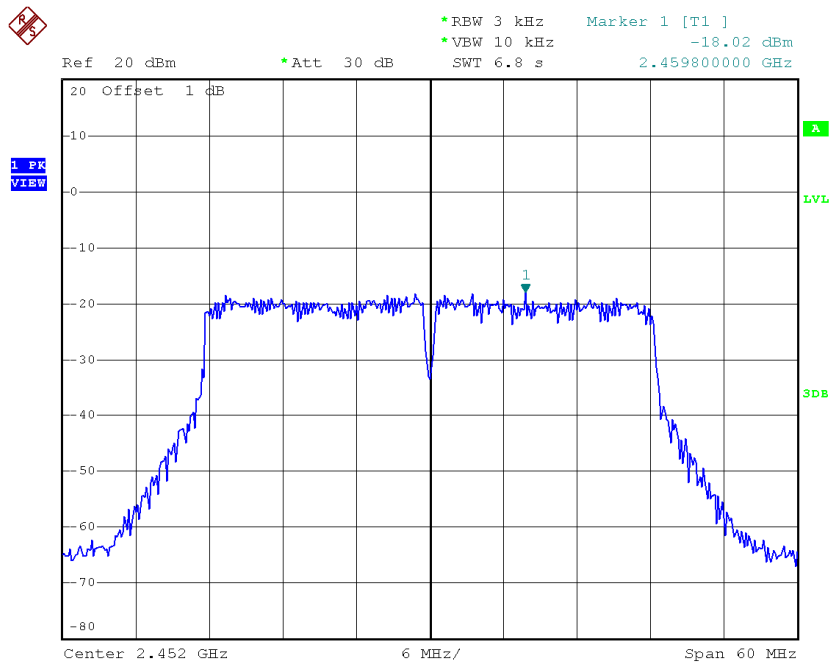
Date: 2.SEP.2014 09:18:58

TX CH06



Date: 2.SEP.2014 09:22:40

TX CH09



Date: 2.SEP.2014 09:24:34

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

Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2422 MHz	-12.83	0.05	8.00	Complies
2437 MHz	-11.35	0.07	8.00	Complies
2452 MHz	-15.28	0.03	8.00	Complies