

FCC Radio Test Report


FCC ID: UIDSBR1750

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

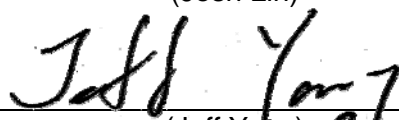
Project No. : 1410139
Equipment : 802.11ac Wireless Router
Model Name : TR3300-AC; SBR-AC1750
Applicant : ARRIS Group, Inc.
Address : 3871 Lakefield Drive, Suite 300
Suwanee Georgia 30024 United States

Date of Receipt : Oct. 17, 2014
Date of Test : Oct. 17, 2014 ~ Jan. 29, 2015
Issued Date : Jan. 30, 2015
Tested by : BTL Inc.

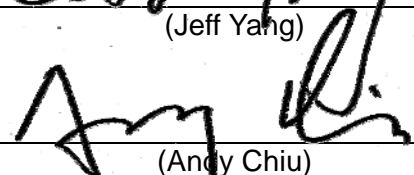
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Declaration

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-1-1410139	Original Issue.	Jan. 30, 2015

1. CERTIFICATION

Equipment : 802.11ac Wireless Router
Brand Name : ARRIS
Model Name : TR3300-AC; SBR-AC1750
Applicant : ARRIS Group, Inc.
Date of Test : Oct. 20, 2014 ~ Dec. 19, 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-1-1410139) 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)	Maximum conducted 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:

Conducted emission Test:

C02: (VCCI RN: C-3477; FCC RN: 614388; FCC DN: TW1054)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428A-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428A-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by Canada Industry for reference only.

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%.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Conducted emission test:

Test Site	Measurement Frequency Range	U,(dB)	NOTE
C02	150 kHz ~ 30 MHz	2.59	

B. Radiated emission test:

Test Site	Item	Measurement Frequency Range	Uncertainty	NOTE
CB08	Radiated emission at 3m	Horizontal Polarization	30 - 200MHz	3.35 dB
			200 - 1000MHz	3.11 dB
			1 - 18GHz	3.97 dB
			18 - 40GHz	4.01 dB
	Vertical Polarization		30 - 200MHz	3.22 dB
			200 - 1000MHz	3.24 dB
			1 - 18GHz	4.05 dB
			18 - 40GHz	4.04 dB

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

If U_{lab} is less than or equal to U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	802.11ac Wireless Router	
Brand Name	ARRIS	
Model Name	TR3300-AC; SBR-AC1750	
Model Difference	Please refer to Note 2.	
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 450 Mbps
	Output Power (Max.)	802.11b: 25.52dBm 802.11g: 26.53dBm 802.11n(20MHz): 26.95dBm 802.11n(40MHz): 22.03dBm
Power Source	1# DC voltage supplied from AC/DC adapter. Brand / Model Name: Chicony/W13-024N3A 2# DC voltage supplied from AC/DC adapter. Brand / Model Name: APD/WA-24112FU	
Power Rating	1# I/P: AC 100-120V 60Hz 0.8A Max / O/P: DC +12V 2A 2# I/P: AC 100-240V 50-60Hz 0.7A / O/P: DC 12V 2A	

Note:

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

Model Name	Color
TR3300-AC	Black
SBR-AC1750	White

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	Part NO.	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Integral	N/A	2.97	TX/RX
2	N/A	N/A	PIFA	N/A	2.39	TX/RX
3	N/A	N/A	PIFA	N/A	2.75	TX/RX

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and receivers (3T3R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}** , that is Directional gain=2.97.

4.

Operating Mode	3TX
TX Mode	
802.11b	V (ANT 1 + ANT 2+ANT 3)
802.11g	V (ANT 1 + ANT 2+ANT 3)
802.11n(20MHz)	V (ANT 1 + ANT 2+ANT 3)
802.11n(40MHz)	V (ANT 1 + ANT 2+ANT 3)

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:

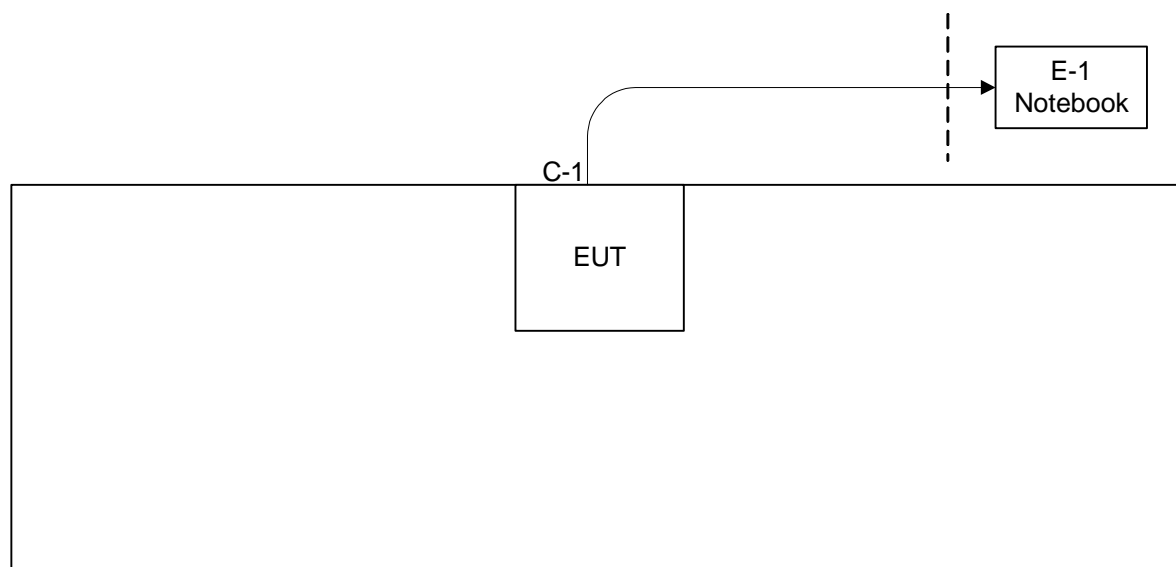
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) 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	Artgui		
Frequency (MHz)	2412	2437	2462
802.11b	21	22	20
802.11g	18	24	18
802.11n (20MHz)	21	24	20
Frequency	2422	2437	2452
802.11n (40MHz)	19	19.5	15.5

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	Notebook PC	DELL	PP18L	DOC	PF329 A01	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ-45 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

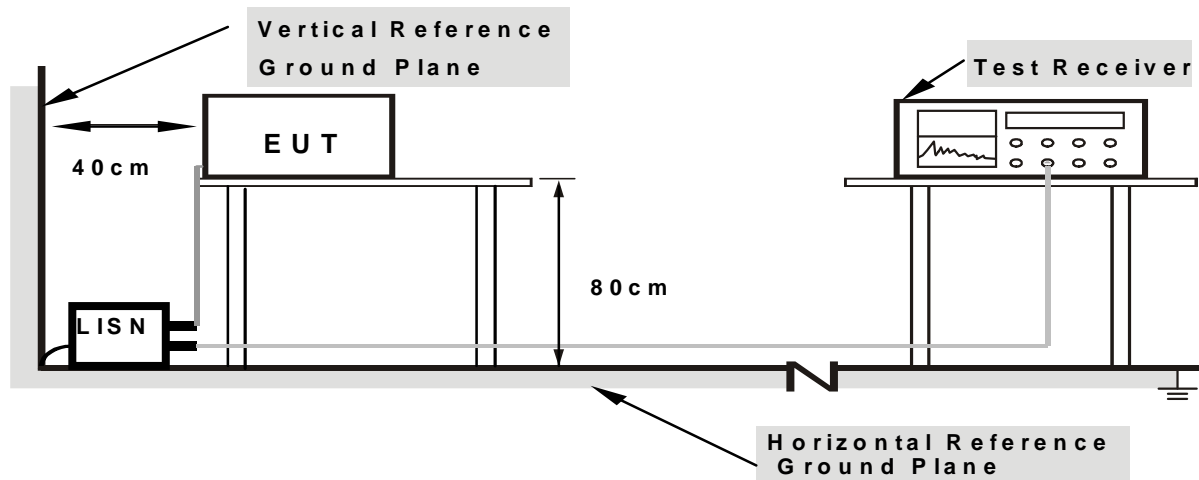
4.1.2 TEST PROCEDURE

- 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 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)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

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

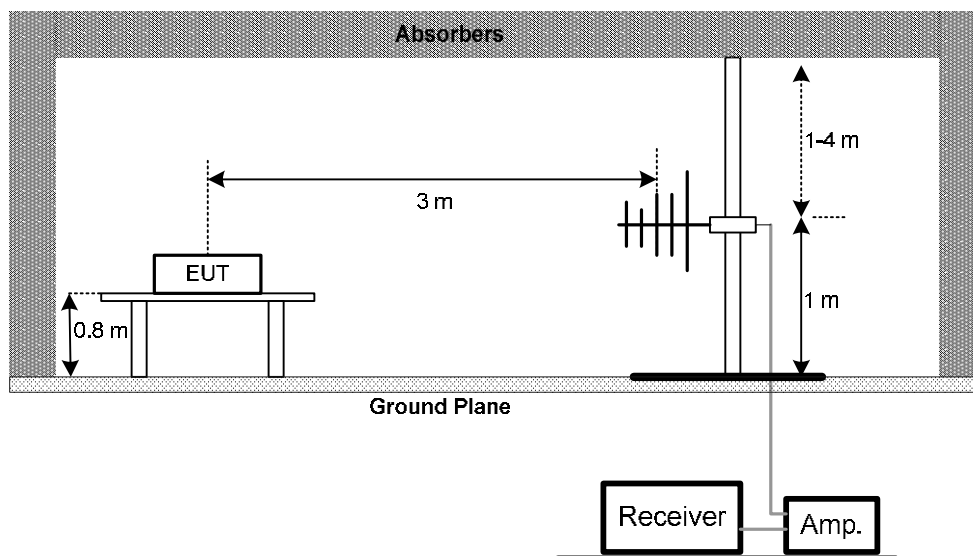
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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

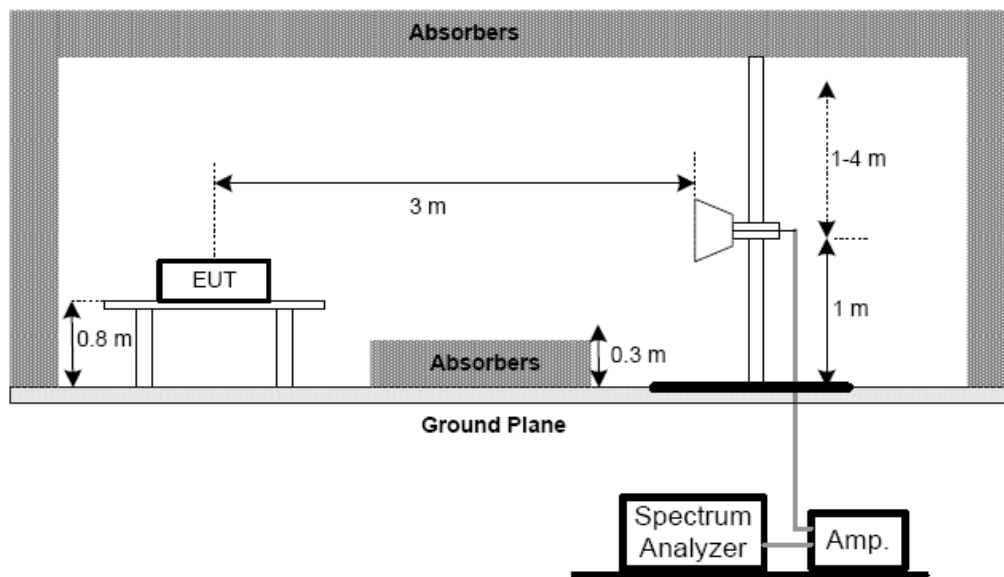
No deviation

4.2.4 TEST SETUP

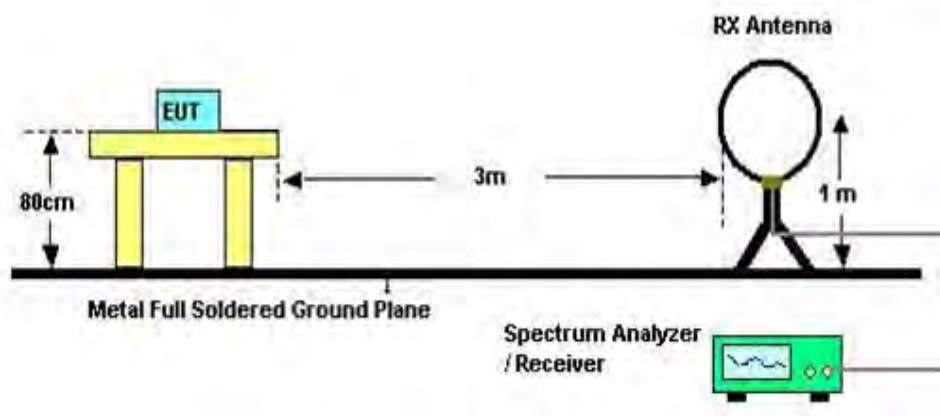
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 **4.1.5 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.

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

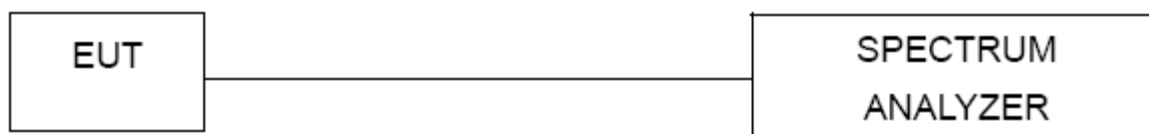
5.1.1 TEST PROCEDURE

- 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 tested system was configured as the statements of 4.1.5 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 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 or maximum conducted (average) output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

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 4.1.5 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.

If maximum conducted (average) output power was used to demonstrate compliance, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- The emissions in non-restricted frequency bands was performed in accordance with method 11.2 & 11.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.
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 4.1.5 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

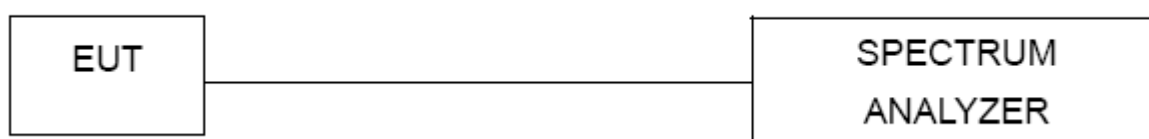
8.1.1 TEST PROCEDURE

- 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 4.1.5 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	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 07, 2016
2	Test Cable	TIMES	CFD300-NL	C01	May. 28, 2015
3	EMI Test Receiver	R&S	ESCI	100082	Apr. 13, 2015
4	Measurement Software	EZ	EZ_EMG (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP30	100854	Oct. 26, 2015
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Jan. 12, 2016
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 15, 2015
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 12, 2015
5	Microflex Cable	EMC	S104-SMA	8m	May. 12, 2015
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 12, 2015
7	Test Cable	LMR	LMR-400	12m	May. 13, 2015
8	Test Cable	LMR	LMR-400	3m	May. 13, 2015
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 17, 2015
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	July. 10, 2015

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP30	100854	Oct. 26, 2015

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 08, 2015
2	Power Meter Sensor	Anritsu	MA2411B	1126001	Aug. 08, 2015

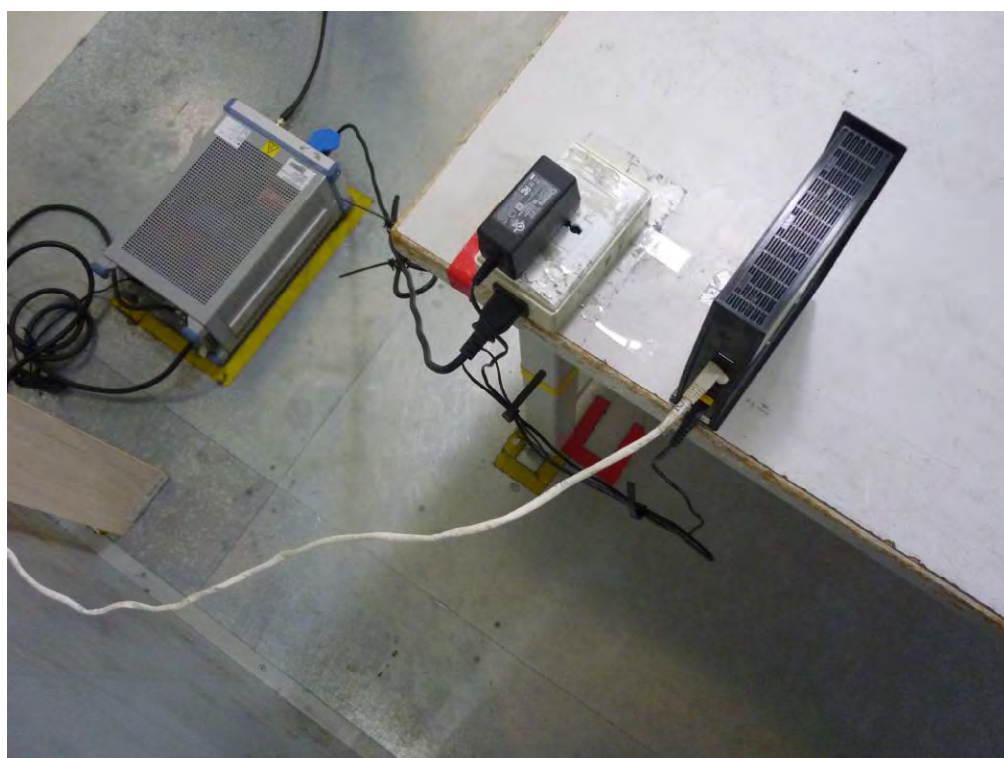
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP30	100854	Oct. 26, 2015

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP30	100854	Oct. 26, 2015

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

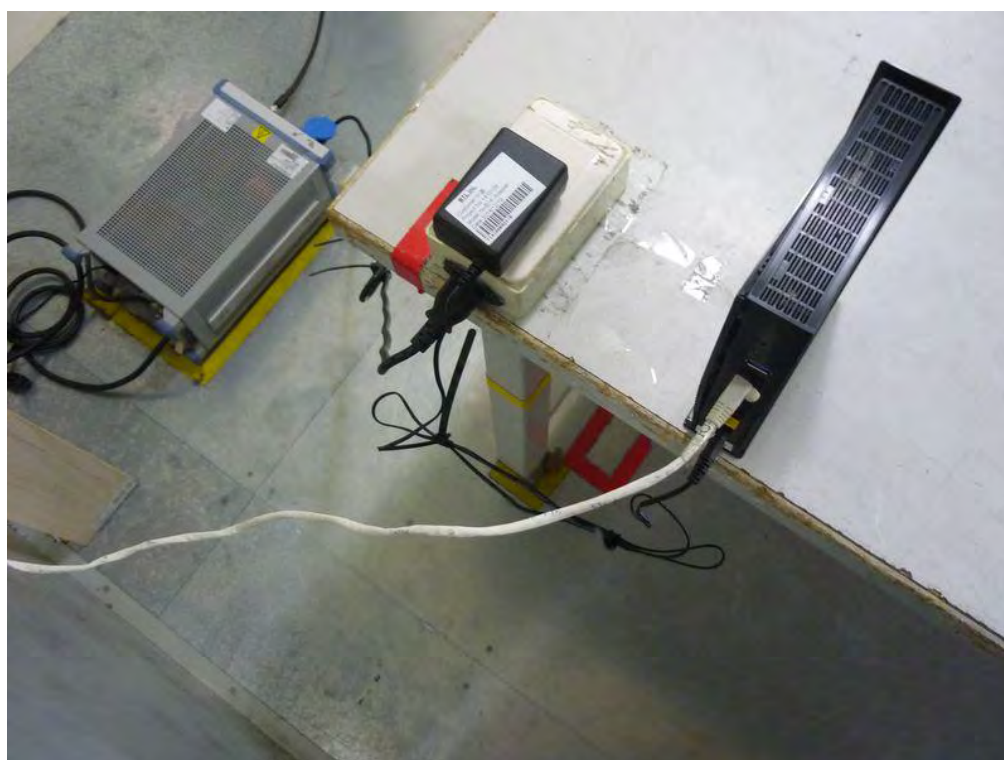
10. EUT TEST PHOTO

Conducted Measurement Photos Chicony, W13-024N3A



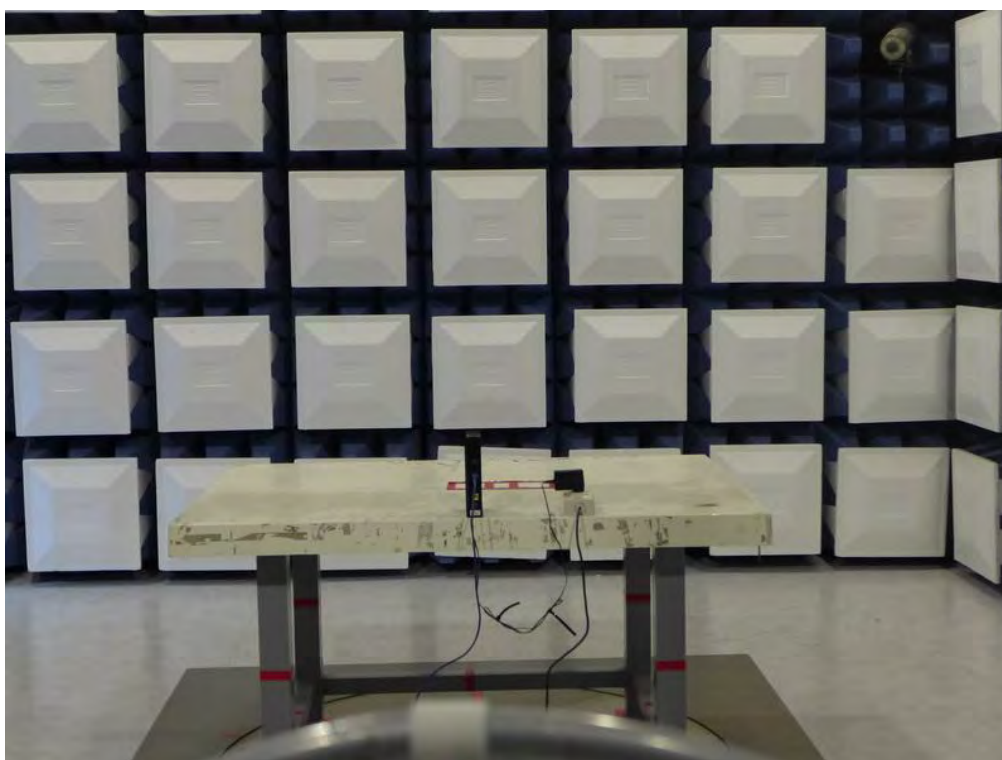
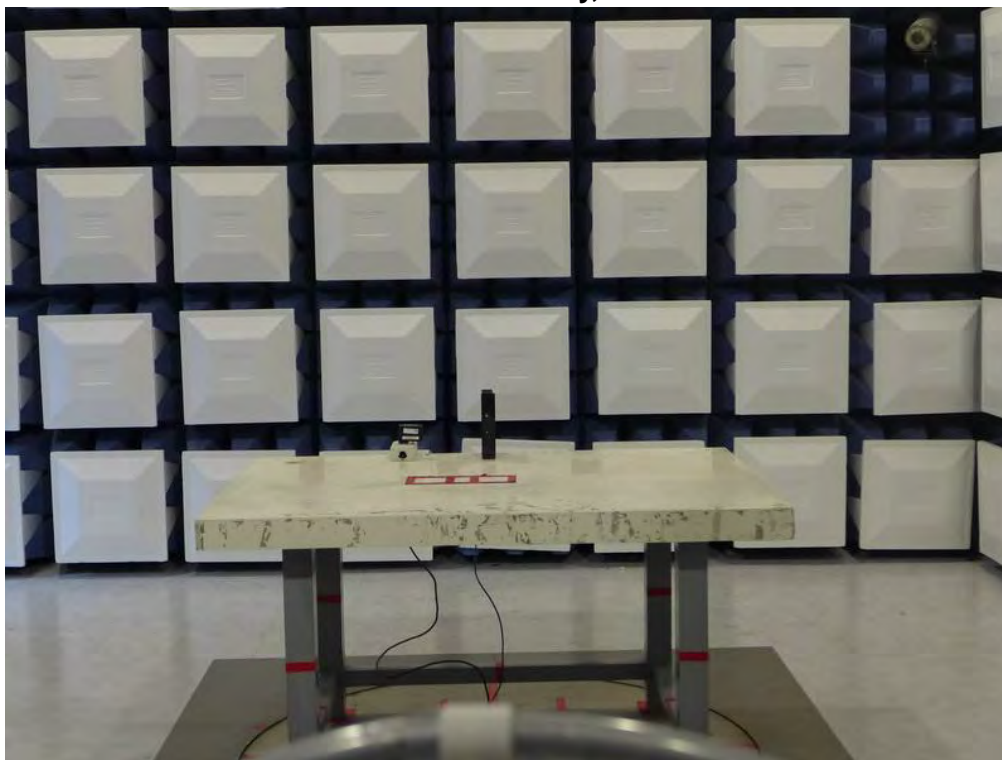
Conducted Measurement Photos

APD, WA-24I12FU



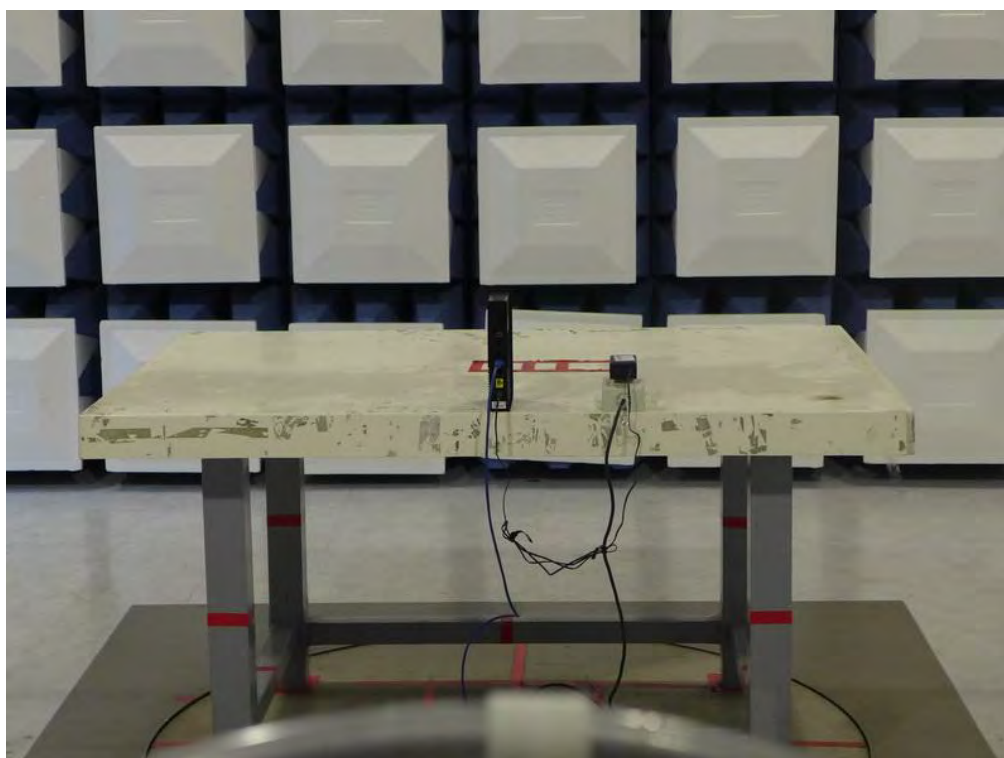
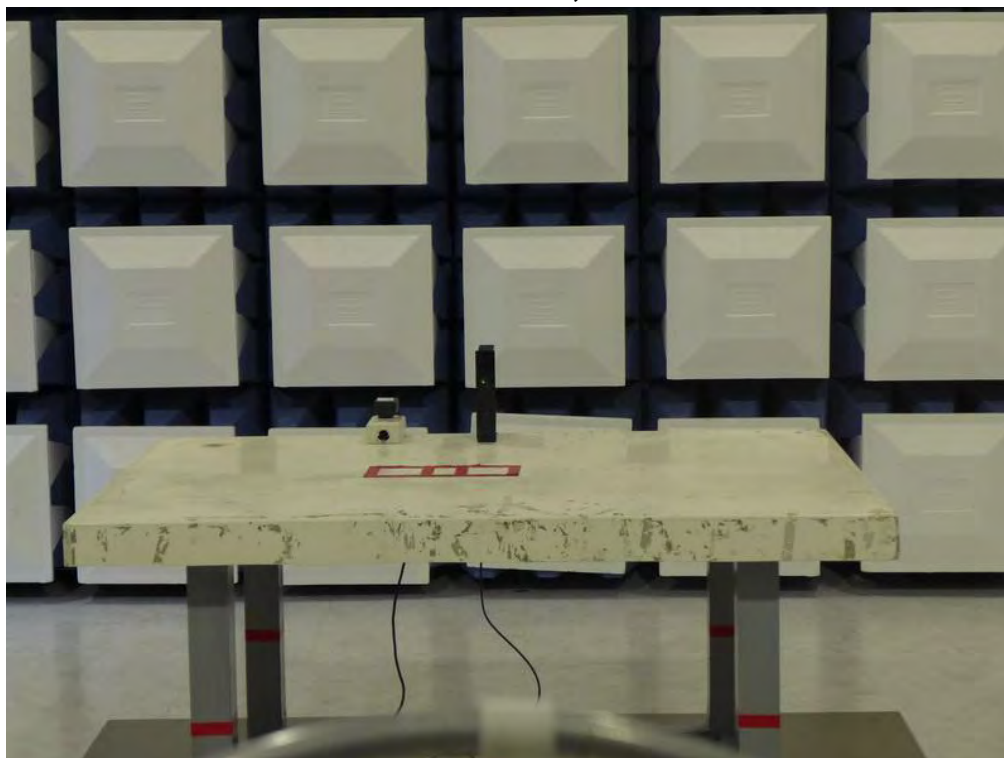
Radiated Measurement Photos

9kHz to 30MHz- Chicony, W13-024N3A



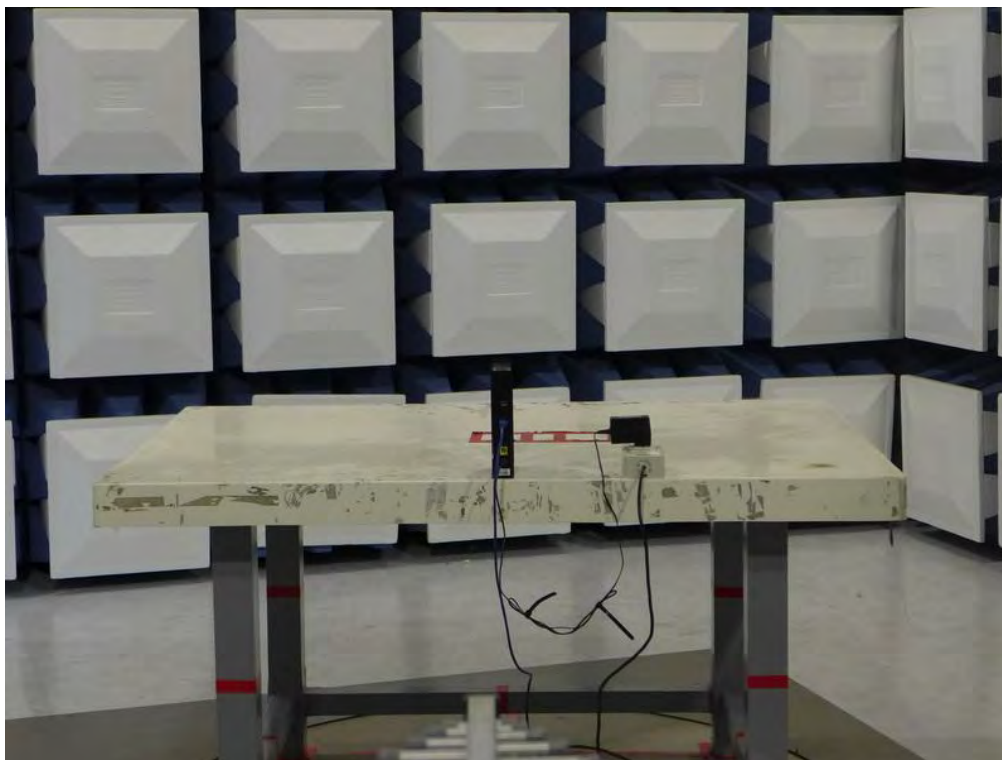
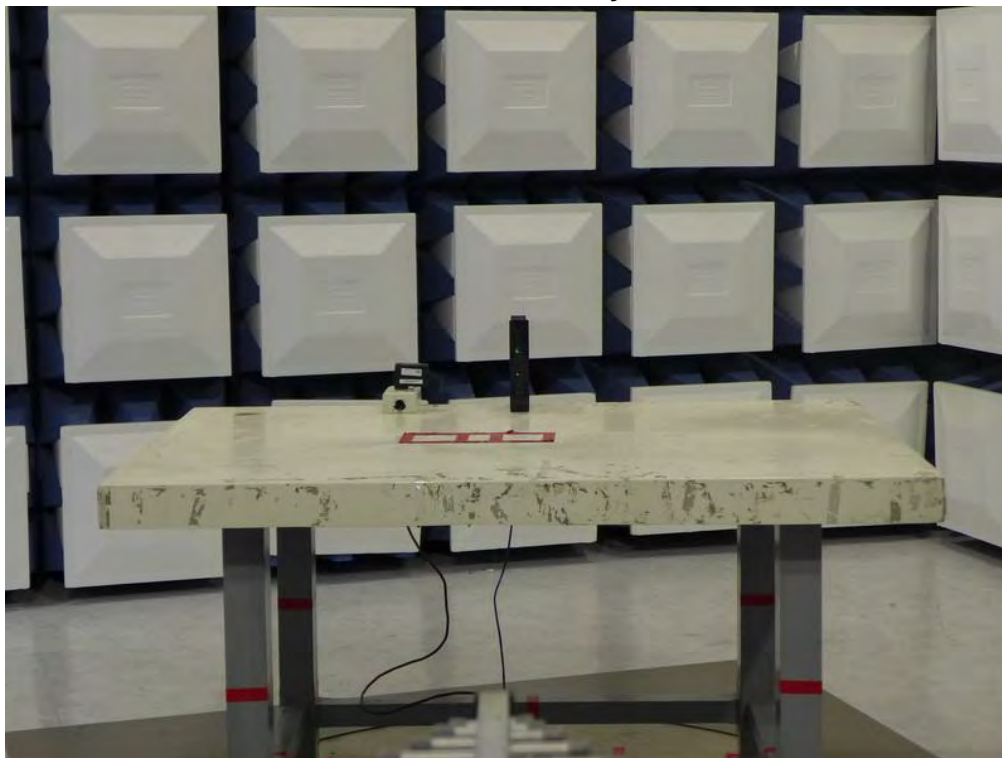
Radiated Measurement Photos

9kHz to 30MHz- APD, WA-24I12FU



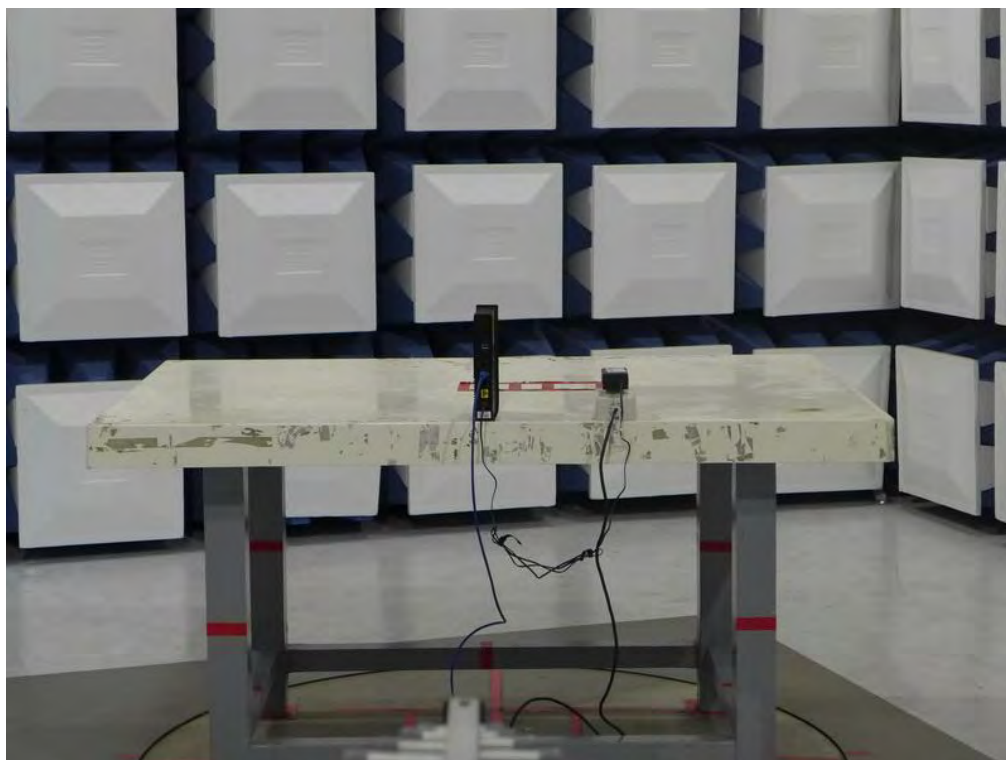
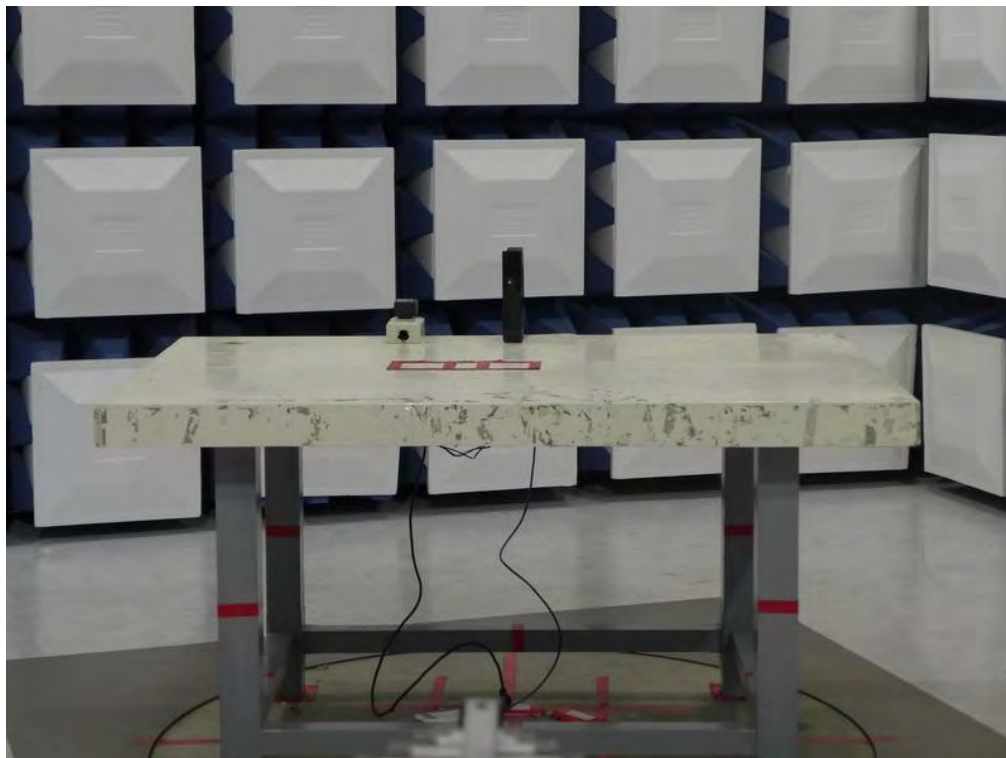
Radiated Measurement Photos

30MHz to 1000MHz- Chicony, W13-024N3A



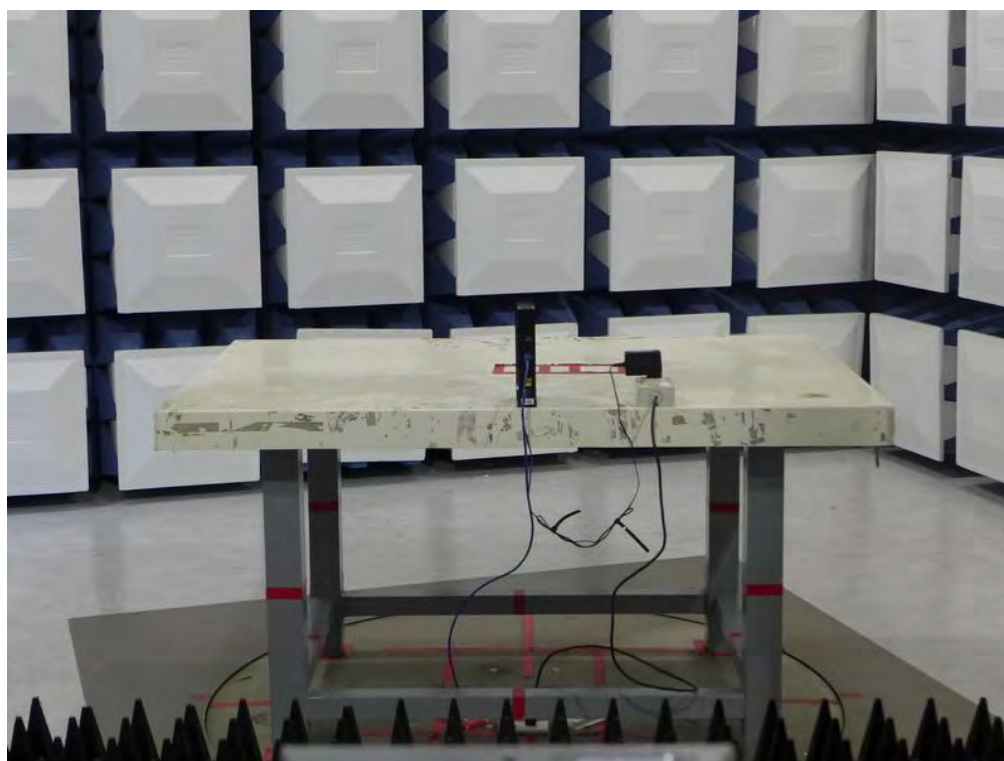
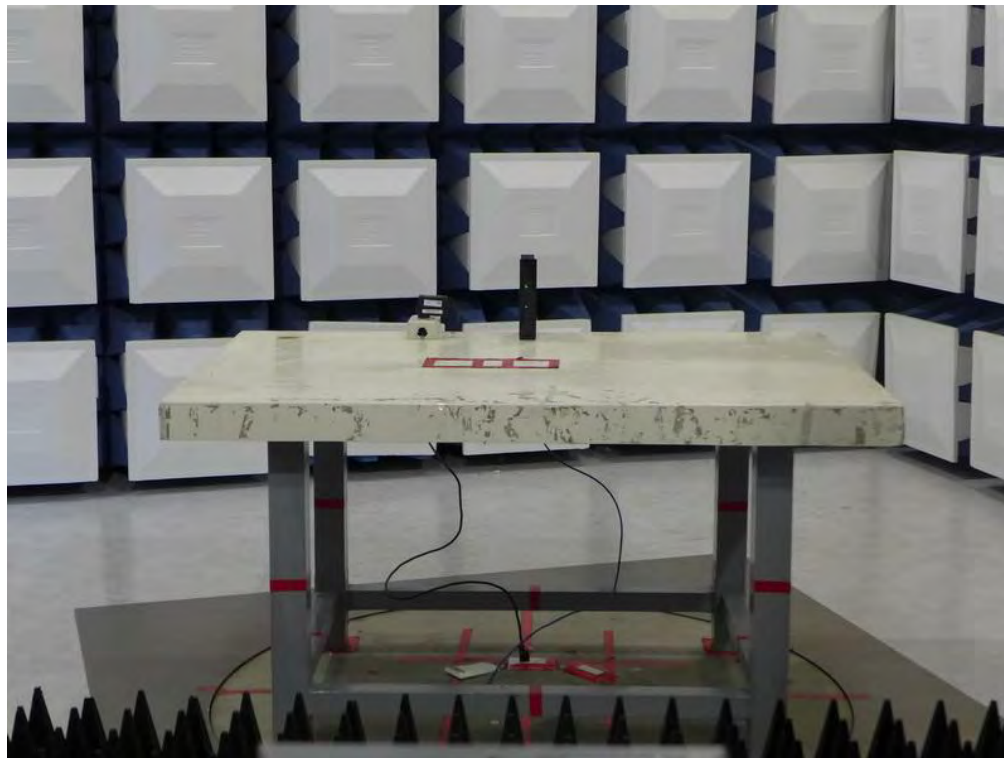
Radiated Measurement Photos

30MHz to 1000MHz- APD, WA-24I12FU



Radiated Measurement Photos

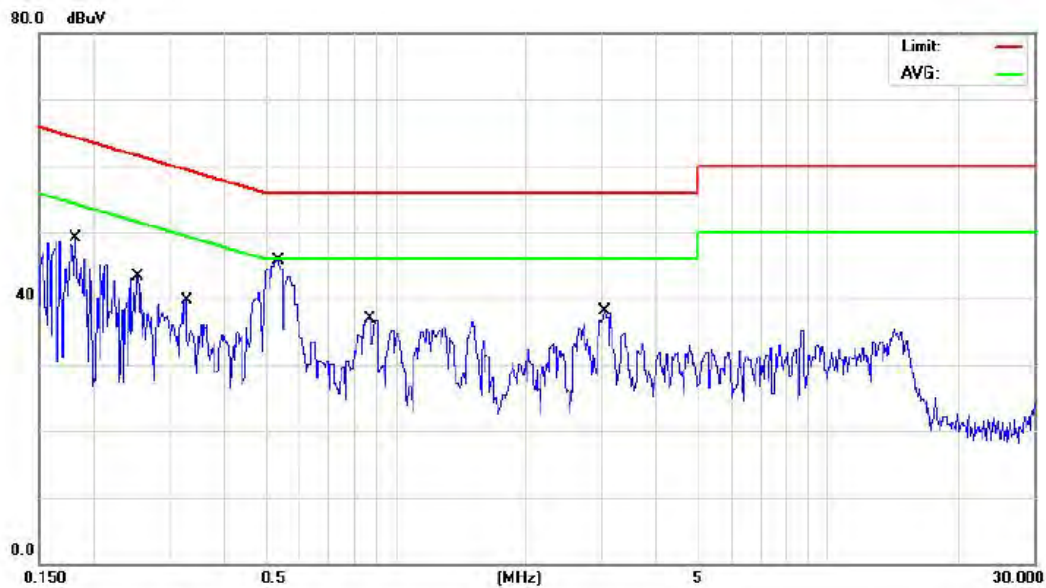
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE- Chicony, W13-024N3A

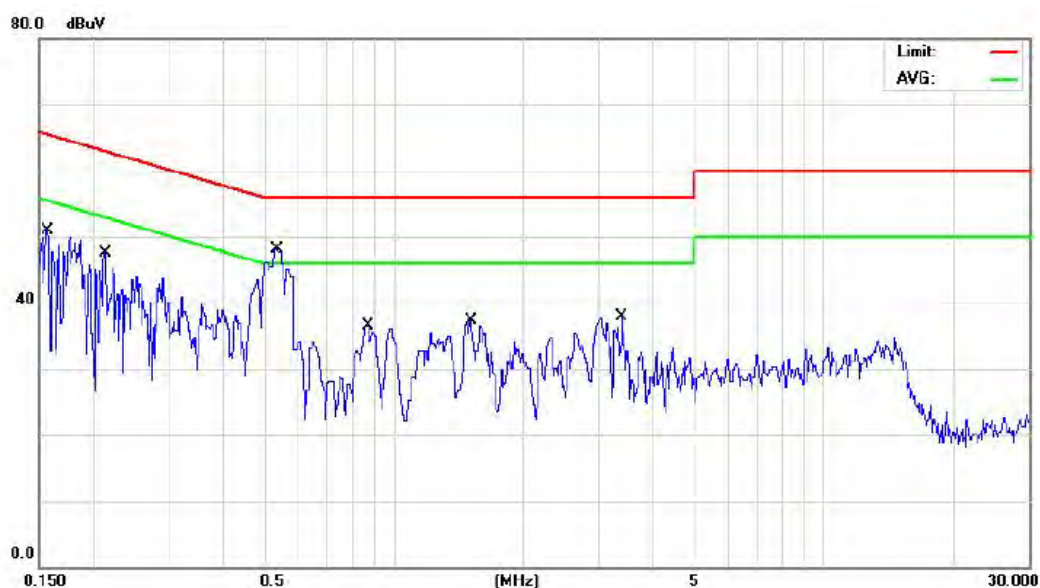
Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1815	39.53	9.64	49.17	64.41	-15.24	QP	
2		0.1815	29.10	9.64	38.74	54.41	-15.67	AVG	
3		0.2522	33.64	9.64	43.28	61.68	-18.40	QP	
4		0.2522	24.40	9.64	34.04	51.68	-17.64	AVG	
5		0.3271	30.03	9.63	39.66	59.52	-19.86	QP	
6		0.3271	21.80	9.63	31.43	49.52	-18.09	AVG	
7		0.5360	36.04	9.62	45.66	56.00	-10.34	QP	
8	*	0.5360	28.80	9.62	38.42	46.00	-7.58	AVG	
9		0.8690	27.19	9.62	36.81	56.00	-19.19	QP	
10		0.8690	21.30	9.62	30.92	46.00	-15.08	AVG	
11		3.0560	28.46	9.65	38.11	56.00	-17.89	QP	
12		3.0560	15.91	9.65	25.56	46.00	-20.44	AVG	

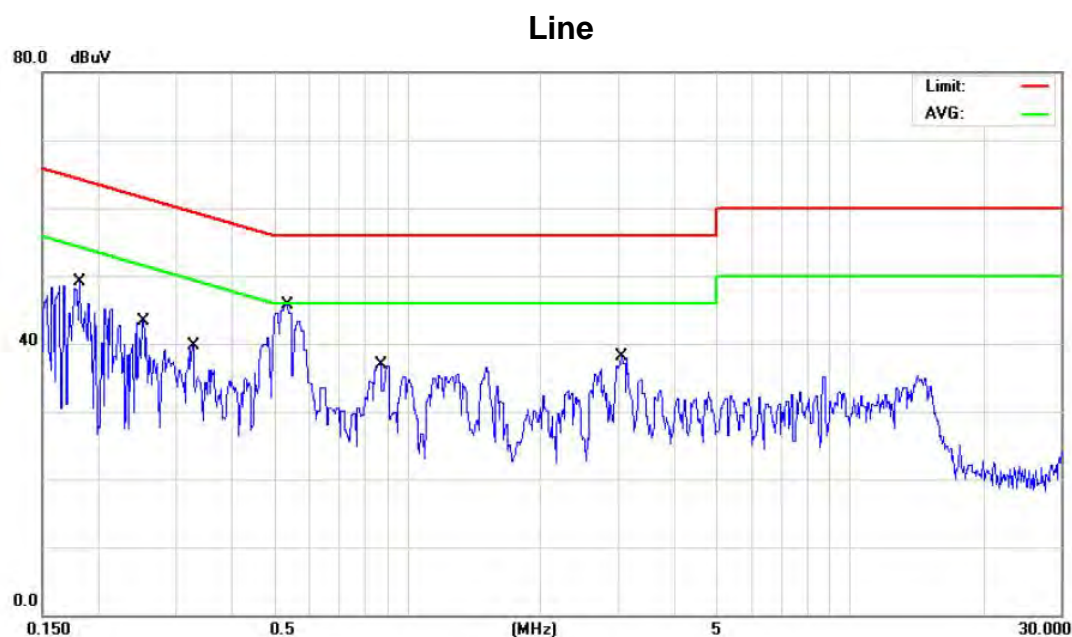
Test Mode : TX MODE- Chicony, W13-024N3A

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1563	41.31	9.61	50.92	65.65	-14.73	QP	
2		0.1563	19.50	9.61	29.11	55.65	-26.54	AVG	
3		0.2130	37.95	9.64	47.59	63.08	-15.49	QP	
4		0.2130	23.20	9.64	32.84	53.08	-20.24	AVG	
5		0.5360	38.58	9.62	48.20	56.00	-7.80	QP	
6	*	0.5360	31.30	9.62	40.92	46.00	-5.08	AVG	
7		0.8690	26.90	9.61	36.51	56.00	-19.49	QP	
8		0.8690	20.70	9.61	30.31	46.00	-15.69	AVG	
9		1.5079	27.75	9.60	37.35	56.00	-18.65	QP	
10		1.5079	17.60	9.60	27.20	46.00	-18.80	AVG	
11		3.3980	28.18	9.66	37.84	56.00	-18.16	QP	
12		3.3980	15.80	9.66	25.46	46.00	-20.54	AVG	

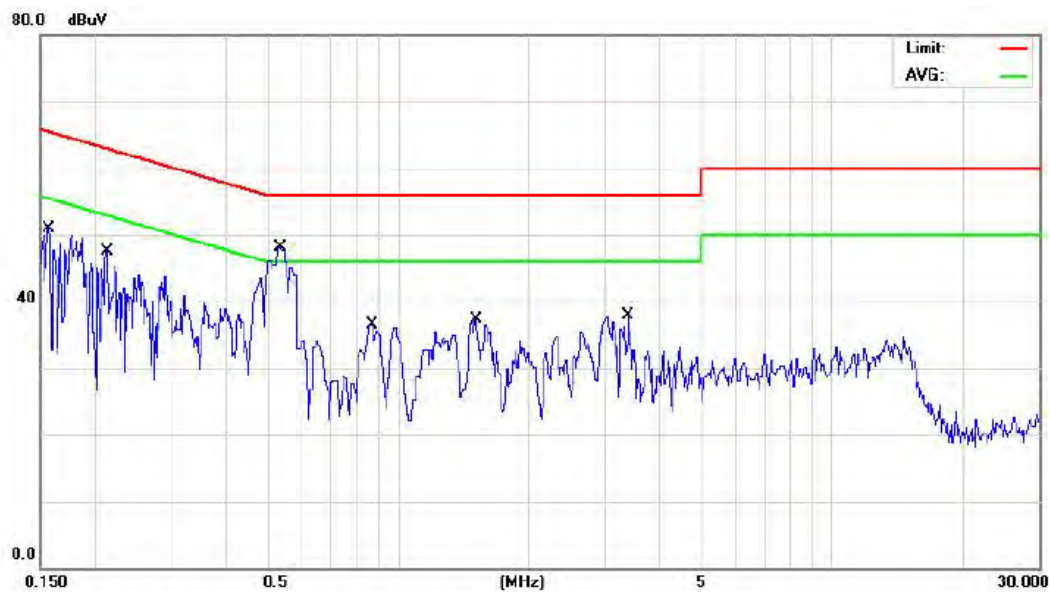
Test Mode : TX MODE- APD, WA-24I12FU



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1815	39.53	9.64	49.17	64.41	-15.24	QP	
2	0.1815	29.10	9.64	38.74	54.41	-15.67	AVG	
3	0.2522	33.64	9.64	43.28	61.68	-18.40	QP	
4	0.2522	24.40	9.64	34.04	51.68	-17.64	AVG	
5	0.3271	30.03	9.63	39.66	59.52	-19.86	QP	
6	0.3271	21.80	9.63	31.43	49.52	-18.09	AVG	
7	0.5360	36.04	9.62	45.66	56.00	-10.34	QP	
8 *	0.5360	28.80	9.62	38.42	46.00	-7.58	AVG	
9	0.8690	27.19	9.62	36.81	56.00	-19.19	QP	
10	0.8690	21.30	9.62	30.92	46.00	-15.08	AVG	
11	3.0560	28.46	9.65	38.11	56.00	-17.89	QP	
12	3.0560	15.91	9.65	25.56	46.00	-20.44	AVG	

Test Mode : TX MODE- APD, WA-24I12FU

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1563	41.31	9.61	50.92	65.65	-14.73	QP	
2		0.1563	19.50	9.61	29.11	55.65	-26.54	AVG	
3		0.2130	37.95	9.64	47.59	63.08	-15.49	QP	
4		0.2130	23.20	9.64	32.84	53.08	-20.24	AVG	
5		0.5360	38.58	9.62	48.20	56.00	-7.80	QP	
6	*	0.5360	31.30	9.62	40.92	46.00	-5.08	AVG	
7		0.8690	26.90	9.61	36.51	56.00	-19.49	QP	
8		0.8690	20.70	9.61	30.31	46.00	-15.69	AVG	
9		1.5079	27.75	9.60	37.35	56.00	-18.65	QP	
10		1.5079	17.60	9.60	27.20	46.00	-18.80	AVG	
11		3.3980	28.18	9.66	37.84	56.00	-18.16	QP	
12		3.3980	15.80	9.66	25.46	46.00	-20.54	AVG	

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

Test Mode: TX Mode- Chicony, W13-024N3A

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.2489	0°	46.92	11.42	58.34	79.68	-21.34	AVG
0.2489	0°	55.47	11.42	66.89	99.68	-32.79	PK
0.2890	0°	38.12	11.17	49.29	78.39	-29.10	AVG
0.2890	0°	46.71	11.17	57.88	98.39	-40.51	PK
0.3970	0°	40.66	11.16	51.82	75.63	-23.81	AVG
0.3970	0°	49.82	11.16	60.98	95.63	-34.65	PK
0.4450	0°	42.14	11.19	53.33	74.64	-21.31	AVG
0.4450	0°	53.02	11.19	64.21	94.64	-30.43	PK
1.1240	0°	41.77	11.46	53.23	66.59	-13.36	QP
1.3960	0°	39.85	11.54	51.39	64.71	-13.32	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.2482	90°	46.92	11.43	58.35	79.71	-21.36	AVG
0.2482	90°	55.47	11.43	66.90	99.71	-32.81	PK
0.2910	90°	38.12	11.15	49.27	78.33	-29.05	AVG
0.2910	90°	46.71	11.15	57.86	98.33	-40.46	PK
0.3970	90°	40.66	11.16	51.82	75.63	-23.81	AVG
0.3970	90°	53.28	11.16	64.44	95.63	-31.19	PK
0.4420	90°	40.52	11.18	51.70	74.70	-22.99	AVG
0.4420	90°	52.33	11.18	63.51	94.70	-31.18	PK
1.1260	90°	45.81	11.46	57.27	66.57	-9.31	QP
1.2570	90°	41.85	11.50	53.35	65.62	-12.27	QP

Test Mode: TX Mode- APD, WA-24I12FU

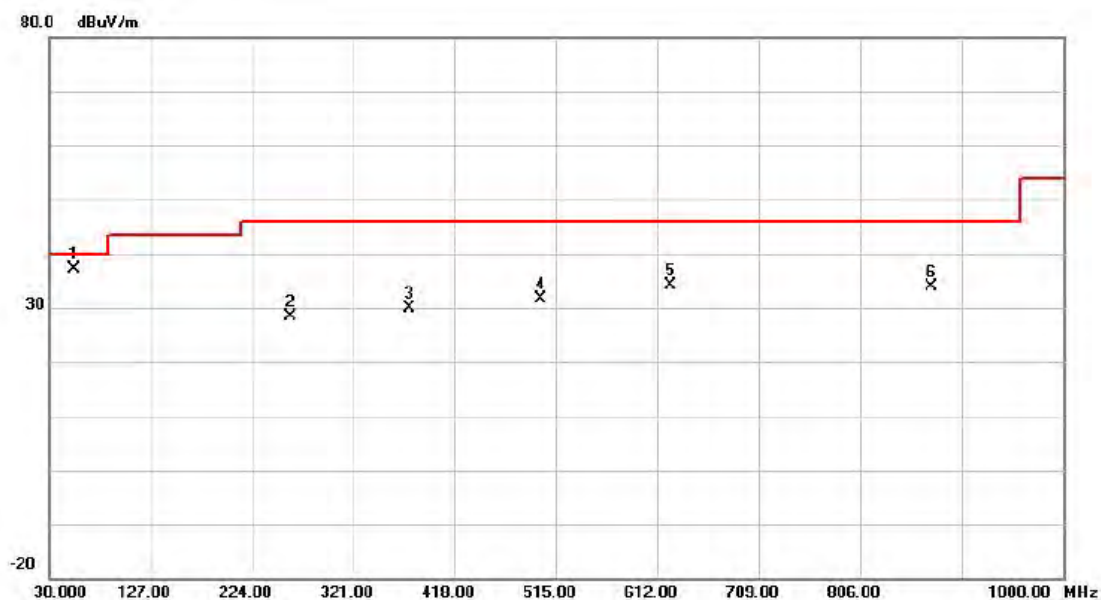
Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.2482	0°	45.68	11.43	57.11	79.71	-22.60	AVG
0.2482	0°	55.24	11.43	66.67	99.71	-33.04	PK
0.2891	0°	39.47	11.16	50.63	78.38	-27.75	AVG
0.2891	0°	46.87	11.16	58.03	98.38	-40.35	PK
0.3972	0°	40.55	11.16	51.71	75.62	-23.92	AVG
0.3972	0°	50.26	11.16	61.42	95.62	-34.21	PK
0.4420	0°	42.33	11.18	53.51	74.70	-21.18	AVG
0.4420	0°	53.14	11.18	64.32	94.70	-30.37	PK
1.1260	0°	41.89	11.46	53.35	66.57	-13.23	QP
1.3390	0°	39.98	11.52	51.50	65.07	-13.57	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.2482	90°	46.92	11.43	58.35	79.71	-21.36	AVG
0.2482	90°	55.47	11.43	66.90	99.71	-32.81	PK
0.2910	90°	38.12	11.15	49.27	78.33	-29.05	AVG
0.2910	90°	46.71	11.15	57.86	98.33	-40.46	PK
0.3970	90°	40.66	11.16	51.82	75.63	-23.81	AVG
0.3970	90°	53.28	11.16	64.44	95.63	-31.19	PK
0.4420	90°	40.52	11.18	51.70	74.70	-22.99	AVG
0.4420	90°	52.33	11.18	63.51	94.70	-31.18	PK
1.1260	90°	45.81	11.46	57.27	66.57	-9.31	QP
1.2570	90°	41.85	11.50	53.35	65.62	-12.27	QP

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

Test Mode: TX B MODE CHANNEL 06- Chicony, W13-024N3A

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	54.2500	51.34	-14.14	37.20	40.00	-2.80	peak	
2		260.3750	42.82	-14.54	28.28	46.00	-17.72	peak	
3		374.3500	41.60	-11.74	29.86	46.00	-16.14	peak	
4		500.4500	40.88	-9.30	31.58	46.00	-14.42	peak	
5		624.1250	41.24	-7.19	34.05	46.00	-11.95	peak	
6		873.9000	37.24	-3.36	33.88	46.00	-12.12	peak	

Test Mode: TX B MODE CHANNEL 06- Chicony, W13-024N3A

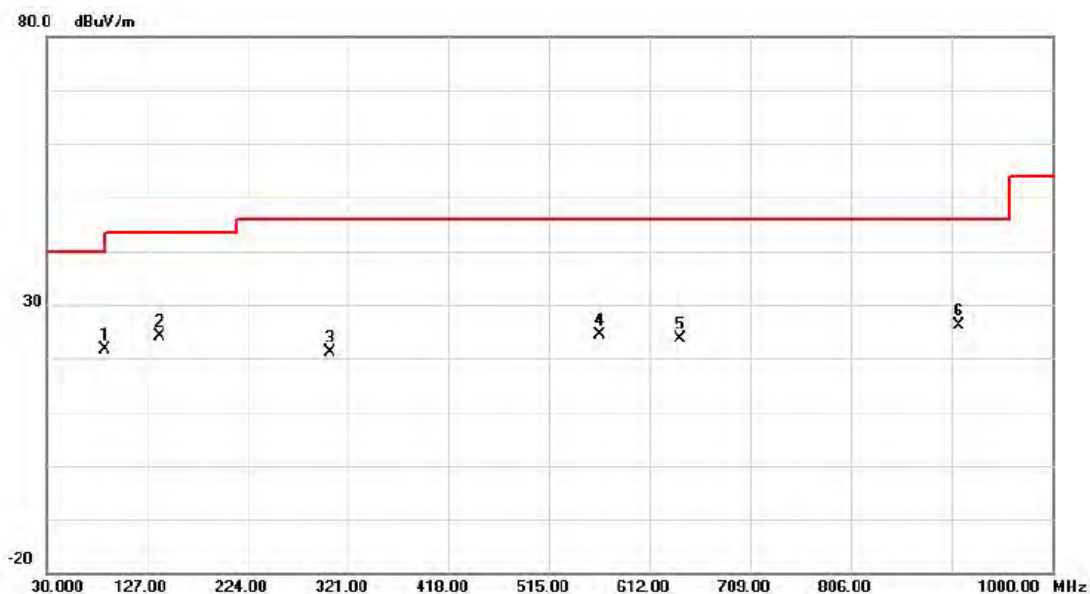
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		54.2500	38.24	-14.14	24.10	40.00	-15.90	peak	
2		260.3750	44.51	-14.54	29.97	46.00	-16.03	peak	
3		374.3500	38.58	-11.74	26.84	46.00	-19.16	peak	
4		500.4500	39.26	-9.30	29.96	46.00	-16.04	peak	
5		624.1250	39.48	-7.19	32.29	46.00	-13.71	peak	
6	*	873.9000	35.90	-3.36	32.54	46.00	-13.46	peak	

Test Mode: TX B MODE CHANNEL 06- APD, WA-24I12FU

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	85.7750	41.01	-19.38	21.63	40.00	-18.37	peak	
2		139.1250	38.67	-14.51	24.16	43.50	-19.34	peak	
3		304.0250	34.54	-13.38	21.16	46.00	-24.84	peak	
4		563.5000	32.12	-7.83	24.29	46.00	-21.71	peak	
5		641.1000	30.71	-7.01	23.70	46.00	-22.30	peak	
6		910.2750	28.73	-2.62	26.11	46.00	-19.89	peak	

Test Mode: TX B MODE CHANNEL 06- APD, WA-24I12FU

Horizontal

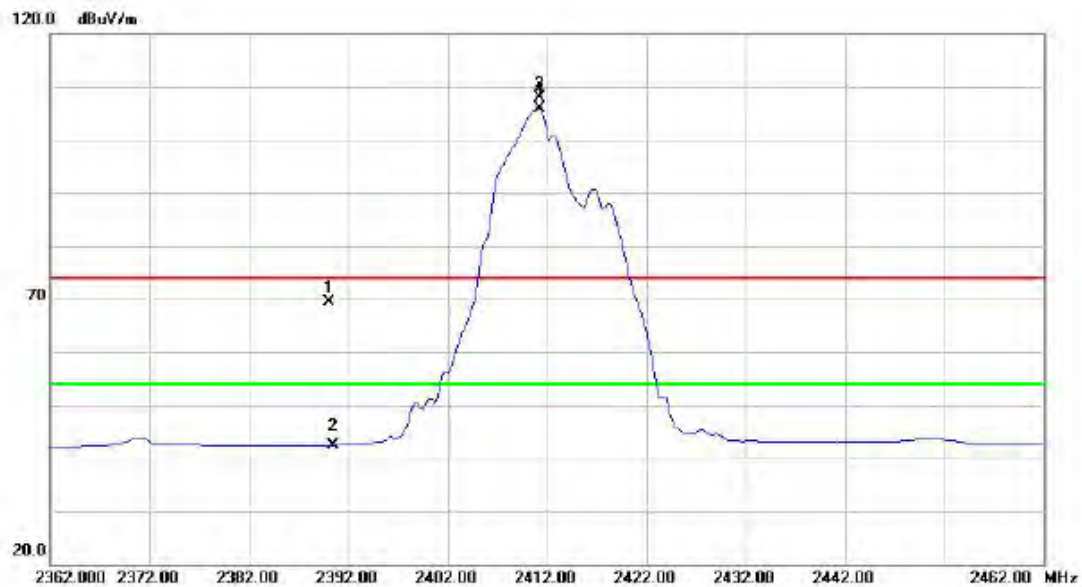


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	51.8250	34.20	-13.88	20.32	40.00	-19.68	peak	
2		250.6750	38.11	-15.10	23.01	46.00	-22.99	peak	
3		299.1750	36.53	-13.51	23.02	46.00	-22.98	peak	
4		388.9000	35.04	-11.37	23.67	46.00	-22.33	peak	
5		599.8750	33.09	-7.46	25.63	46.00	-20.37	peak	
6		854.5000	28.97	-3.75	25.22	46.00	-20.78	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

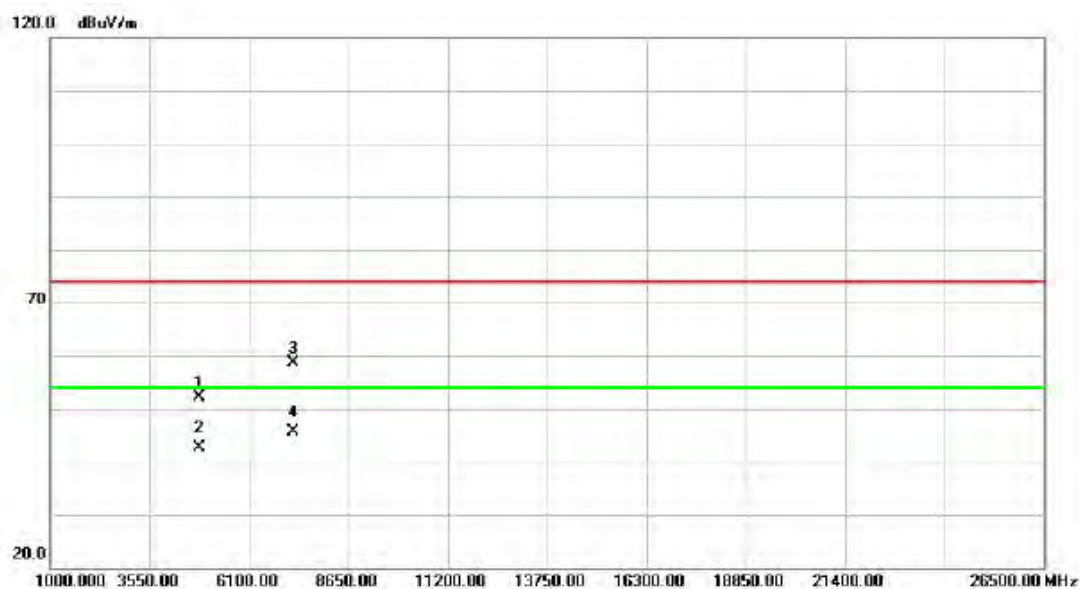
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	42.70	26.73	69.43	74.00	-4.57	peak	
2		2390.000	15.67	26.73	42.40	54.00	-11.60	AVG	
3	X	2411.250	81.17	26.80	107.97	74.00	33.97	peak	No Limit
4	*	2411.250	79.10	26.80	105.90	54.00	51.90	AVG	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	Margin dB	Detector	Comment
1		4823.900	45.34	6.78	52.12	74.00	-21.88	peak	
2		4823.900	35.75	6.78	42.53	54.00	-11.47	AVG	
3		7235.180	43.38	15.17	58.55	74.00	-15.45	peak	
4	*	7235.180	30.54	15.17	45.71	54.00	-8.29	AVG	

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

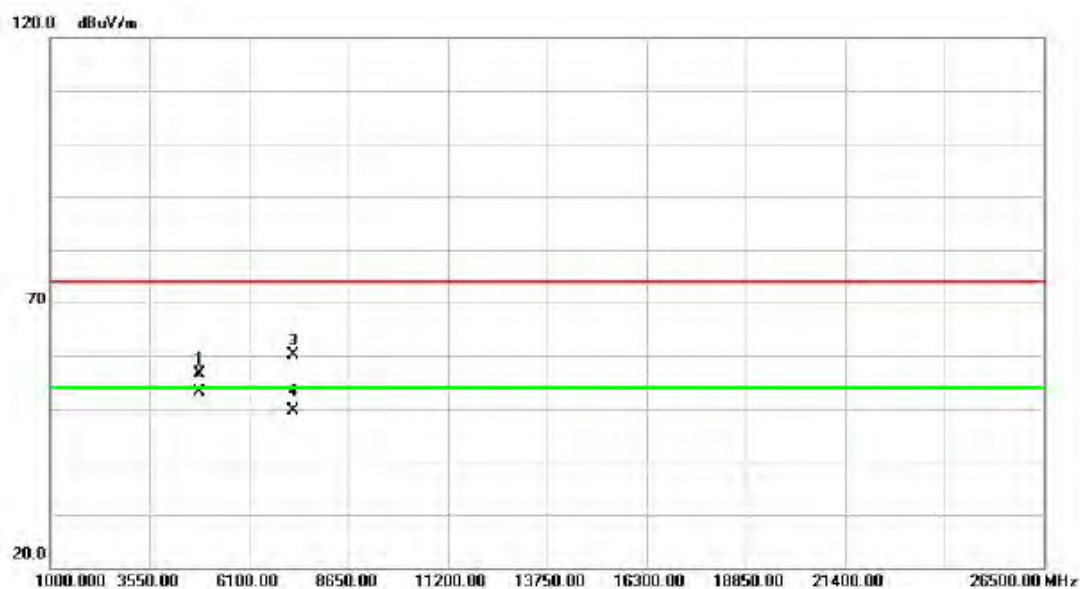
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	40.09	26.73	66.82	74.00	-7.18	peak	
2		2390.000	16.00	26.73	42.73	54.00	-11.27	AVG	
3	X	2411.250	81.42	26.80	108.22	74.00	34.22	peak	No Limit
4	*	2411.250	79.19	26.80	105.99	54.00	51.99	AVG	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	Margin dB	Detector	Comment
1		4823.975	49.83	6.78	56.61	74.00	-17.39	peak	
2	*	4823.975	46.30	6.78	53.08	54.00	-0.92	AVG	
3		7234.395	45.02	15.17	60.19	74.00	-13.81	peak	
4		7234.395	34.36	15.17	49.53	54.00	-4.47	AVG	

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

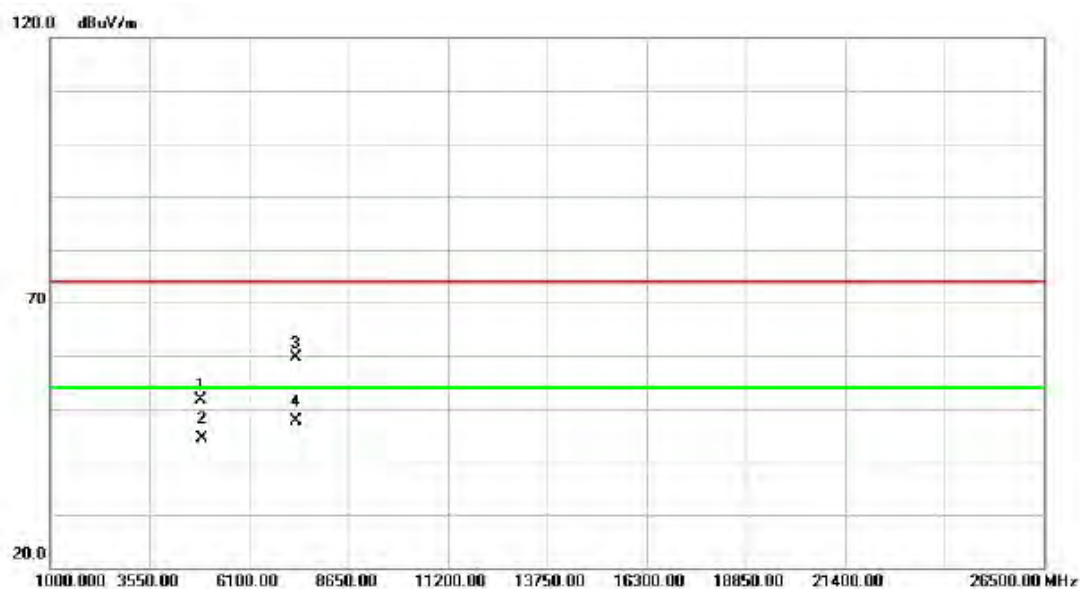
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.46	31.02	58.48	74.00	-15.52	peak	
2		2390.000	15.52	31.02	46.54	54.00	-7.46	AVG	
3	X	2436.250	83.88	31.24	115.12	74.00	41.12	peak	No Limit
4	*	2436.250	81.14	31.24	112.38	54.00	58.38	AVG	No Limit
5		2483.500	31.37	31.46	62.83	74.00	-11.17	peak	
6		2483.500	14.69	31.46	46.15	54.00	-7.85	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.975	44.86	6.78	51.64	74.00	-22.36	peak	
2		4873.975	37.53	6.78	44.31	54.00	-9.69	AVG	
3		7309.625	44.04	15.57	59.61	74.00	-14.39	peak	
4	*	7309.625	32.07	15.57	47.64	54.00	-6.36	AVG	

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

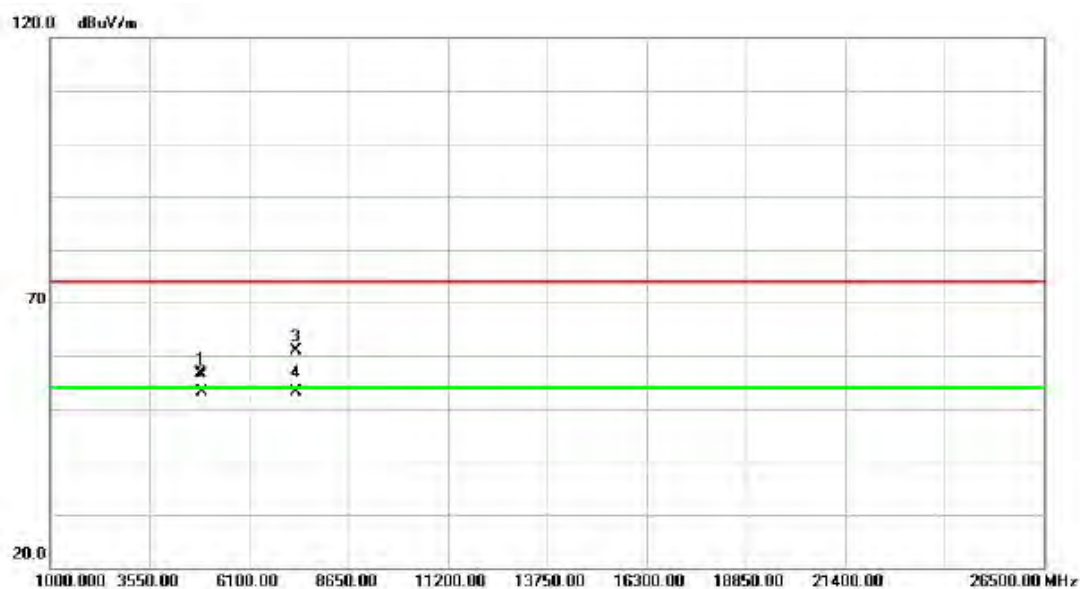
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	28.29	31.02	59.31	74.00	-14.69	peak	
2		2390.000	15.71	31.02	46.73	54.00	-7.27	AVG	
3	X	2435.750	84.53	31.24	115.77	74.00	41.77	peak	No Limit
4	*	2435.750	81.88	31.24	113.12	54.00	59.12	AVG	No Limit
5		2483.500	30.96	31.46	62.42	74.00	-11.58	peak	
6		2483.500	15.30	31.46	46.76	54.00	-7.24	AVG	

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

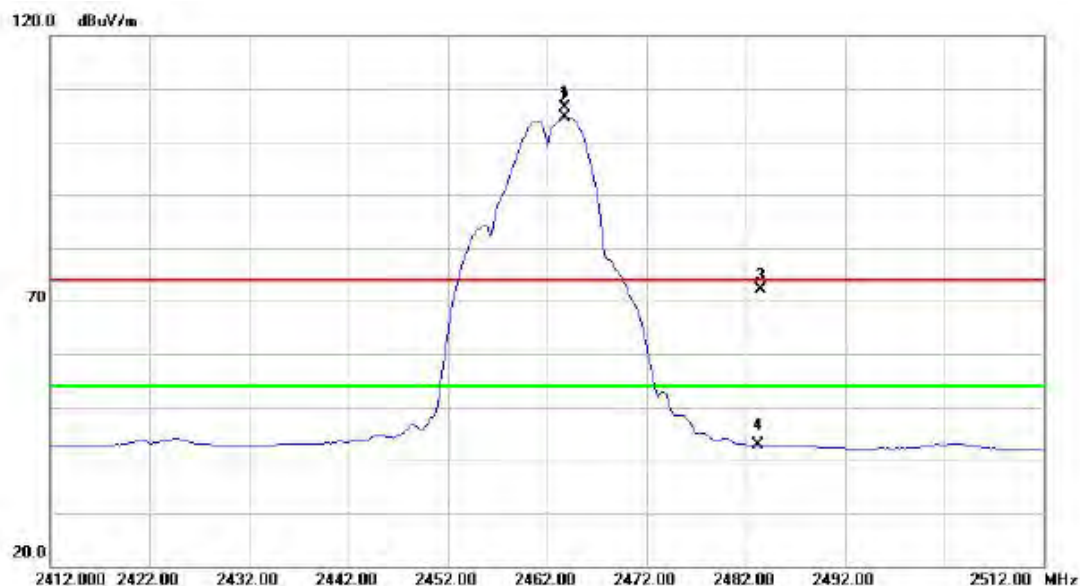
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	49.81	6.78	56.59	74.00	-17.41	peak	
2	*	4874.000	46.39	6.78	53.17	54.00	-0.83	AVG	
3		7310.075	45.30	15.57	60.87	74.00	-13.13	peak	
4		7310.075	37.60	15.57	53.17	54.00	-0.83	AVG	

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

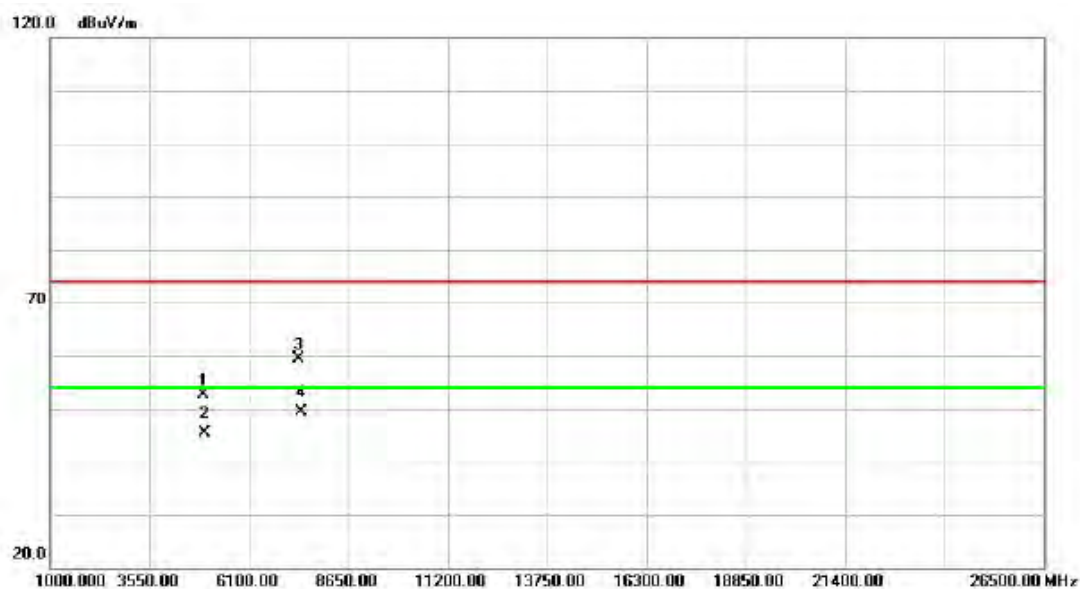
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2463.750	79.40	26.98	106.38	74.00	32.38	peak	No Limit
2	*	2463.750	77.69	26.98	104.67	54.00	50.67	AVG	No Limit
3		2483.500	45.21	27.04	72.25	74.00	-1.75	peak	
4		2483.500	15.89	27.04	42.93	54.00	-11.07	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.950	45.93	6.77	52.70	74.00	-21.30	peak	
2		4923.950	38.67	6.77	45.44	54.00	-8.56	AVG	
3		7387.000	43.28	15.98	59.26	74.00	-14.74	peak	
4	*	7387.000	33.29	15.98	49.27	54.00	-4.73	AVG	

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

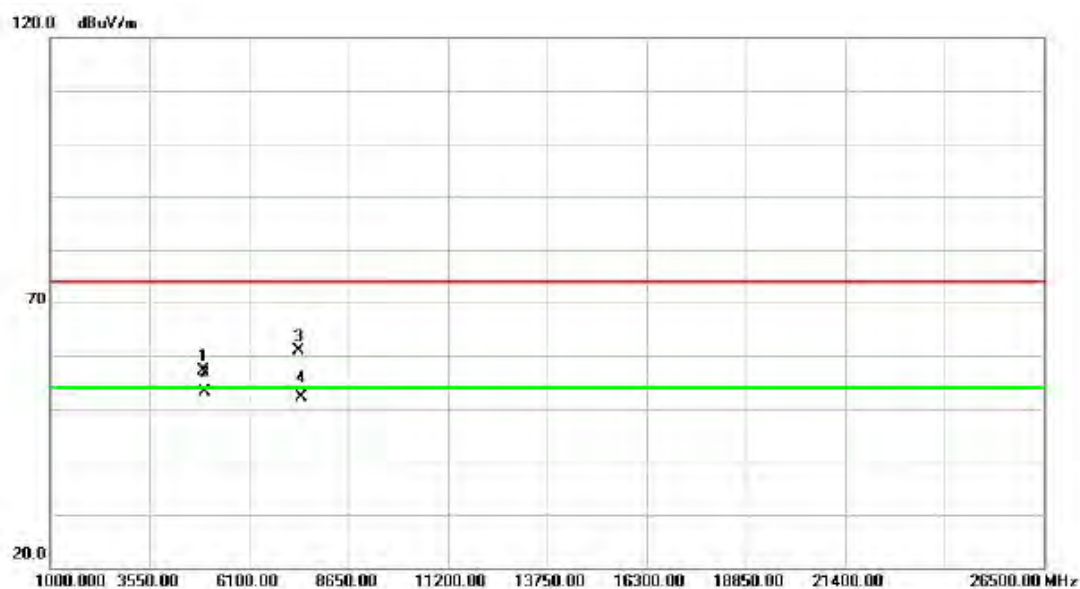
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.250	83.20	26.97	110.17	74.00	36.17	peak	No Limit
2	*	2461.250	81.17	26.97	108.14	54.00	54.14	AVG	No Limit
3		2483.500	41.48	27.04	68.52	74.00	-5.48	peak	
4		2483.500	17.15	27.04	44.19	54.00	-9.81	AVG	

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

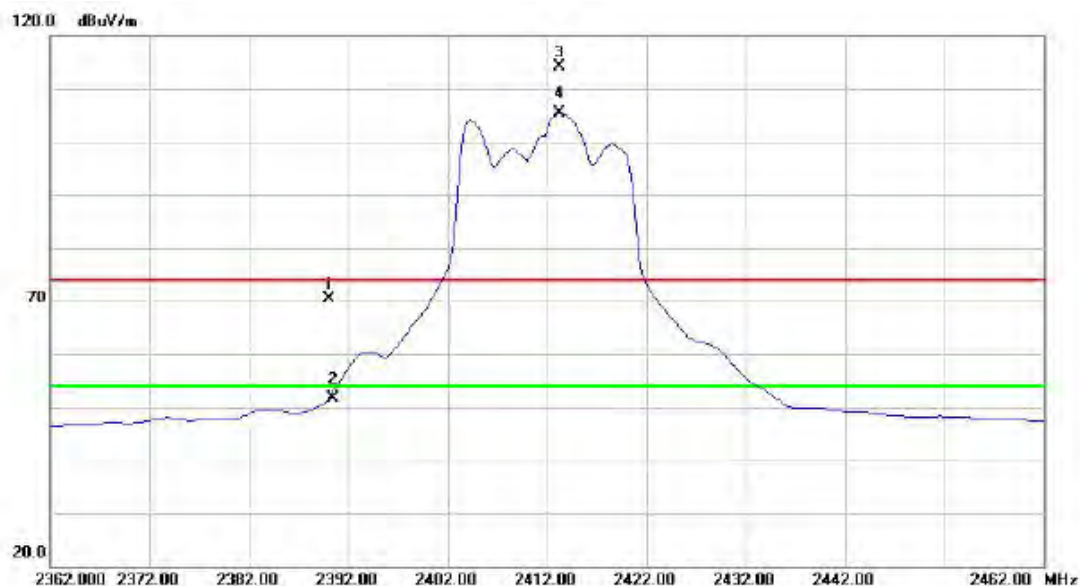
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.940	50.36	6.77	57.13	74.00	-16.87	peak	
2	*	4923.940	46.36	6.77	53.13	54.00	-0.87	AVG	
3		7385.000	44.98	15.98	60.96	74.00	-13.04	peak	
4		7385.000	36.08	15.98	52.06	54.00	-1.94	AVG	

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

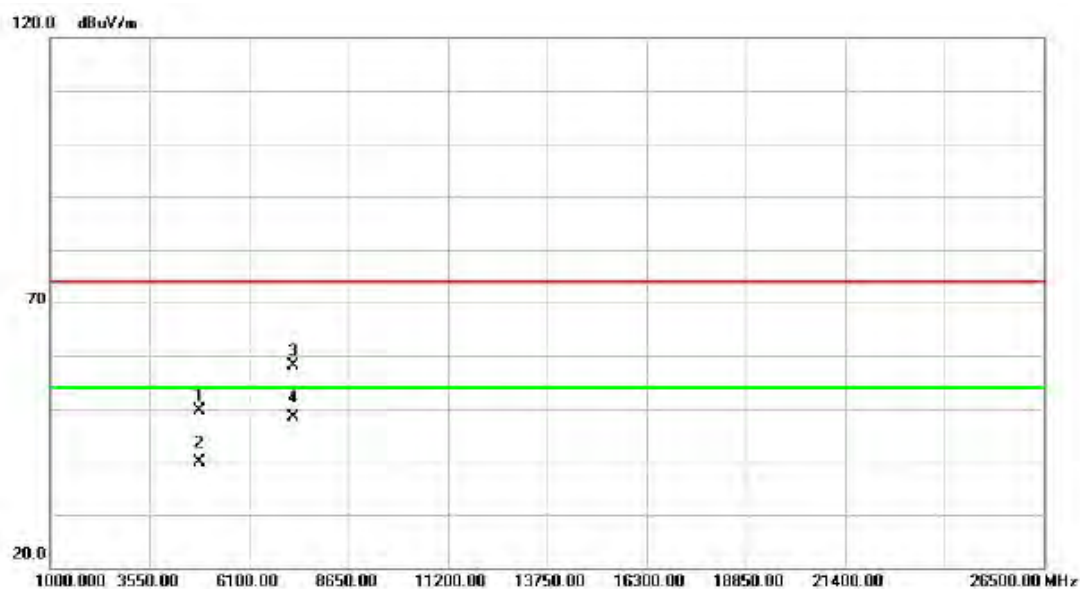
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	39.24	31.02	70.26	74.00	-3.74	peak	
2		2390.000	20.55	31.02	51.57	54.00	-2.43	AVG	
3	X	2413.250	82.91	31.14	114.05	74.00	40.05	peak	No Limit
4	*	2413.250	74.20	31.14	105.34	54.00	51.34	AVG	No Limit

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

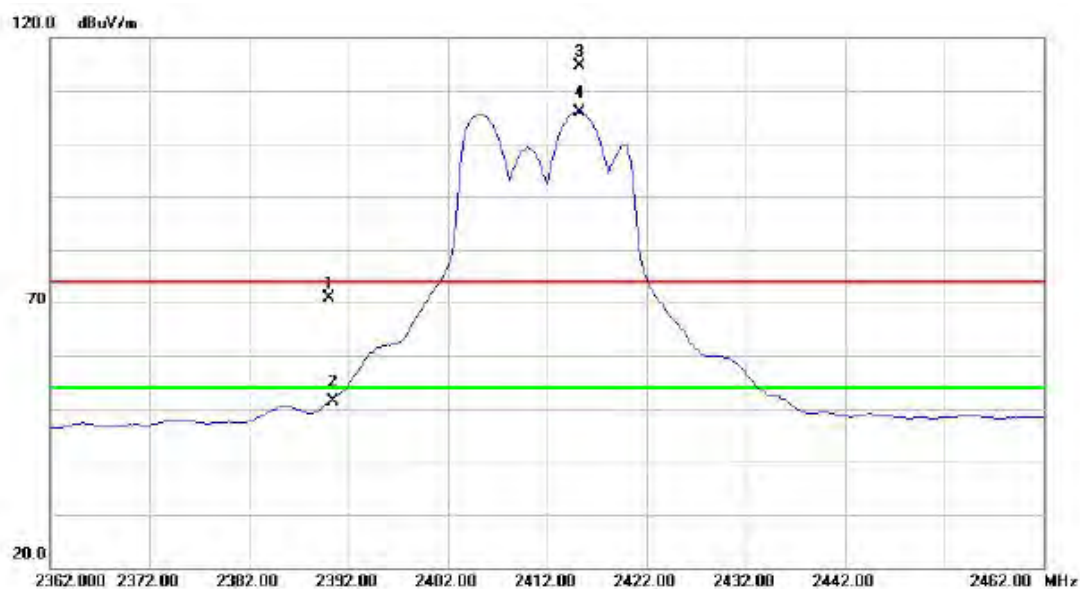
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.625	42.96	6.78	49.74	74.00	-24.26	peak	
2		4824.625	33.06	6.78	39.84	54.00	-14.16	AVG	
3		7236.000	42.84	15.17	58.01	74.00	-15.99	peak	
4	*	7236.000	33.13	15.17	48.30	54.00	-5.70	AVG	

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

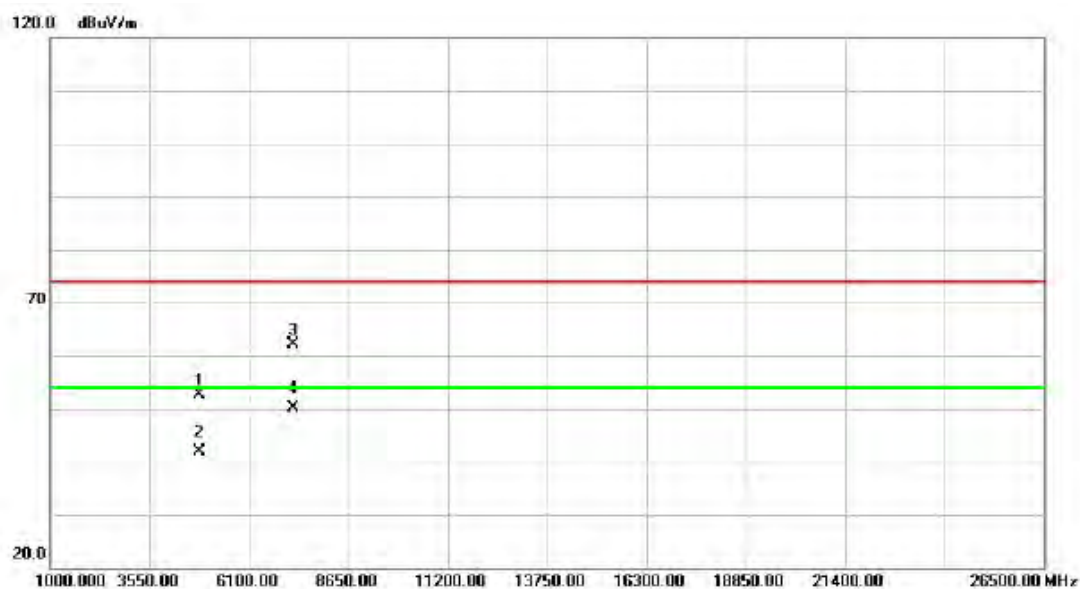
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	39.78	31.02	70.80	74.00	-3.20	peak	
2		2390.000	20.30	31.02	51.32	54.00	-2.68	AVG	
3	X	2415.250	83.48	31.14	114.62	74.00	40.62	peak	No Limit
4	*	2415.250	74.79	31.14	105.93	54.00	51.93	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	Margin dB	Detector	Comment
1		4824.350	45.97	6.78	52.75	74.00	-21.25	peak	
2		4824.350	35.20	6.78	41.98	54.00	-12.02	AVG	
3		7234.375	47.08	15.17	62.25	74.00	-11.75	peak	
4	*	7234.375	34.88	15.17	50.05	54.00	-3.95	AVG	

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

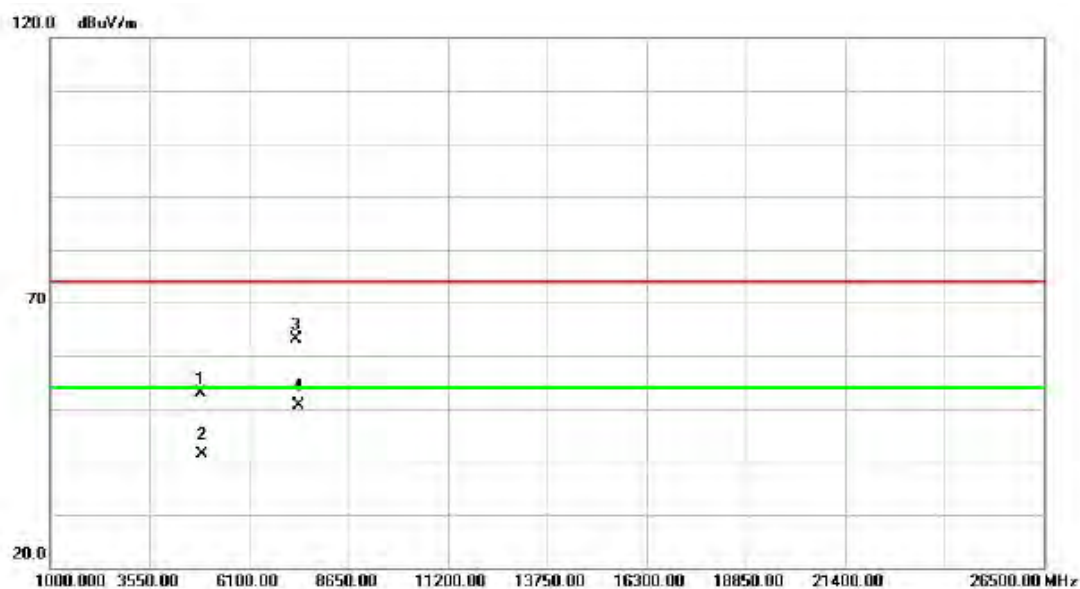
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	40.19	31.02	71.21	74.00	-2.79	peak	
2		2390.000	18.28	31.02	49.30	54.00	-4.70	AVG	
3	X	2438.500	85.88	31.25	117.13	74.00	43.13	peak	No Limit
4	*	2438.500	75.58	31.25	106.83	54.00	52.83	AVG	No Limit
5		2483.500	32.06	31.46	63.52	74.00	-10.48	peak	
6		2483.500	15.50	31.46	46.96	54.00	-7.04	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4869.750	46.09	6.78	52.87	74.00	-21.13	peak	
2		4870.450	34.66	6.78	41.44	54.00	-12.56	AVG	
3		7312.375	47.52	15.59	63.11	74.00	-10.89	peak	
4	*	7312.375	34.95	15.59	50.54	54.00	-3.46	AVG	

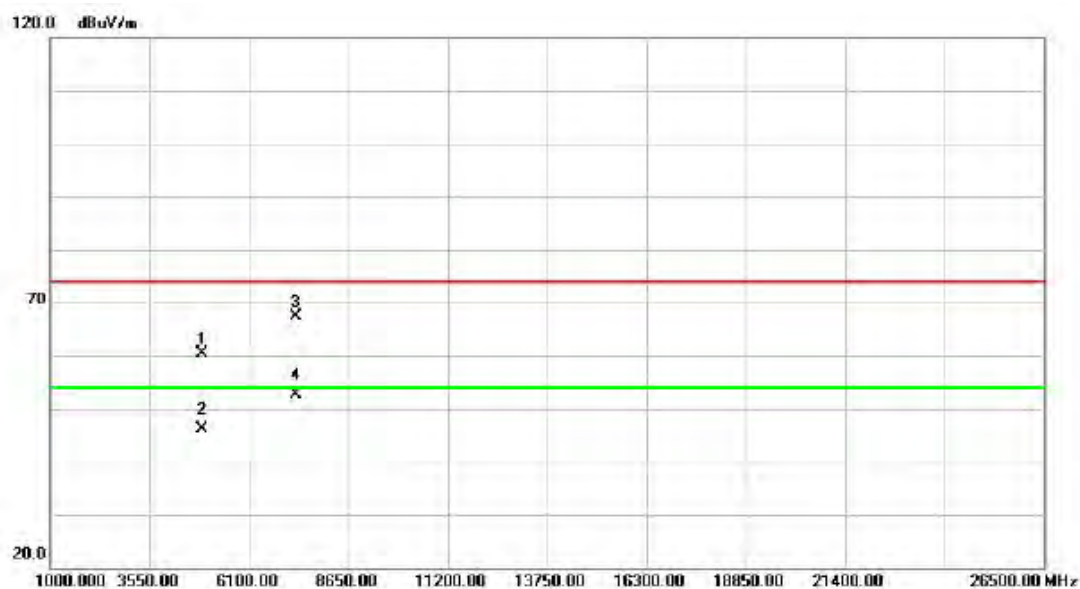
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	40.80	31.02	71.82	74.00	-2.18	peak	
2		2390.000	19.01	31.02	50.03	54.00	-3.97	AVG	
3	X	2442.750	88.02	31.27	119.29	74.00	45.29	peak	No Limit
4	*	2442.750	78.84	31.27	110.11	54.00	56.11	AVG	No Limit
5		2483.500	41.11	31.46	72.57	74.00	-1.43	peak	
6		2483.500	19.38	31.46	50.84	54.00	-3.16	AVG	

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

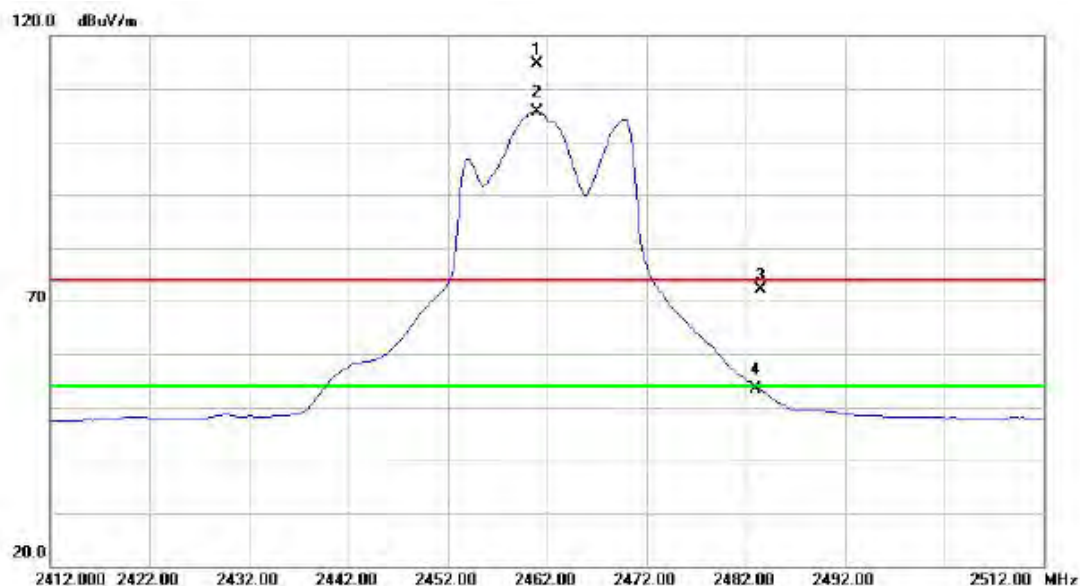
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4877.375	53.73	6.77	60.50	74.00	-13.50	peak	
2		4877.375	39.38	6.77	46.15	54.00	-7.85	AVG	
3		7309.750	51.74	15.57	67.31	74.00	-6.69	peak	
4	*	7309.750	37.07	15.57	52.64	54.00	-1.36	AVG	

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

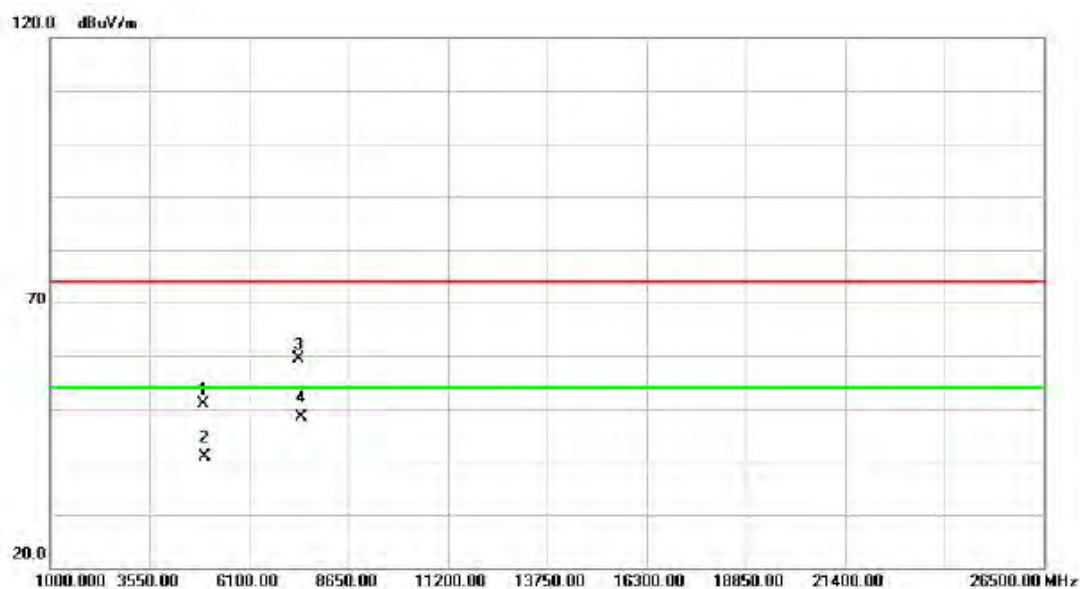
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.000	83.26	31.36	114.62	74.00	40.62	peak	No Limit
2	*	2461.000	74.39	31.36	105.75	54.00	51.75	AVG	No Limit
3		2483.500	40.75	31.46	72.21	74.00	-1.79	peak	
4		2483.500	21.91	31.46	53.37	54.00	-0.63	AVG	

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

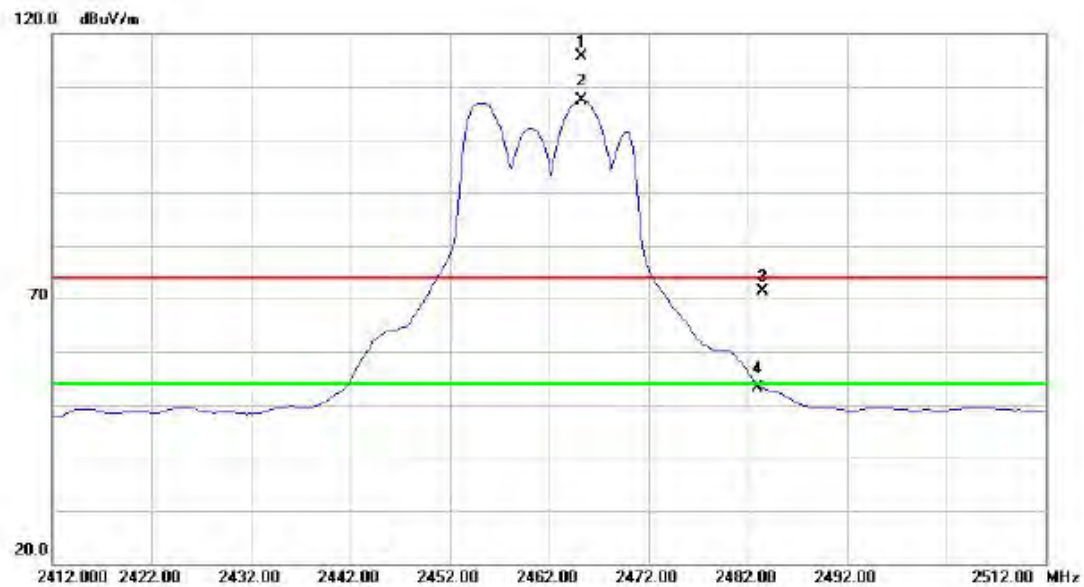
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4921.000	44.11	6.77	50.88	74.00	-23.12	peak	
2		4921.000	34.12	6.77	40.89	54.00	-13.11	AVG	
3		7387.000	43.39	15.98	59.37	74.00	-14.63	peak	
4	*	7387.000	32.32	15.98	48.30	54.00	-5.70	AVG	

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

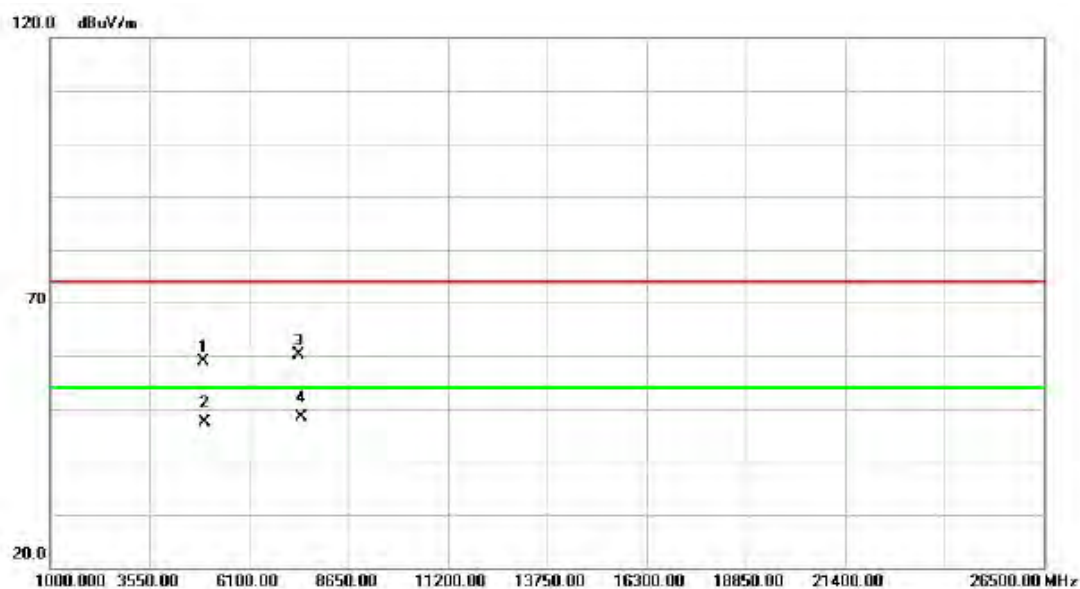
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2465.250	84.15	31.37	115.52	74.00	41.52	peak	No Limit
2	*	2465.250	76.00	31.37	107.37	54.00	53.37	AVG	No Limit
3		2483.500	39.99	31.46	71.45	74.00	-2.55	peak	
4		2483.500	21.67	31.46	53.13	54.00	-0.87	AVG	

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

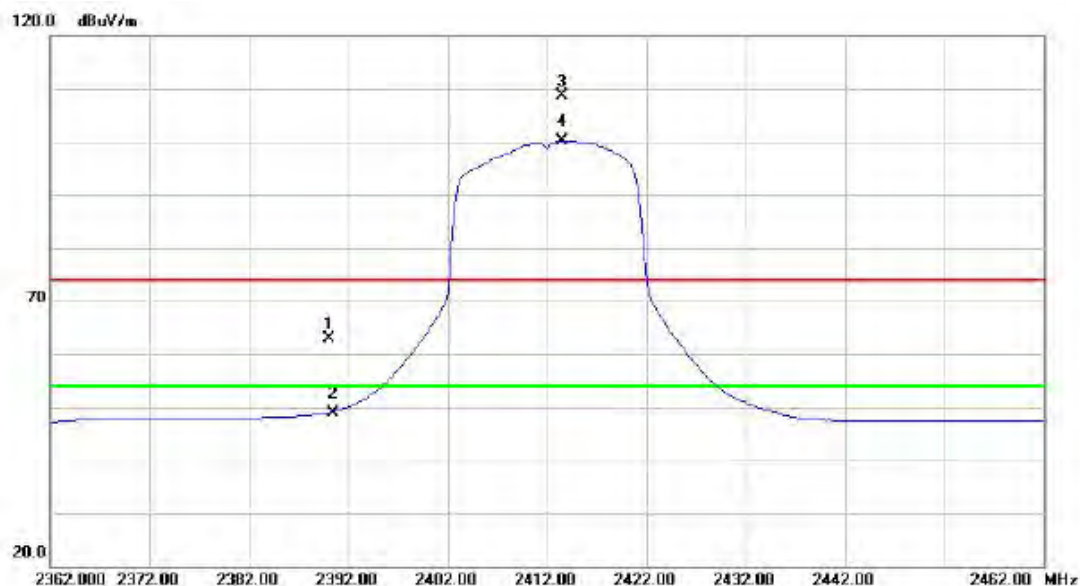
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4922.750	52.23	6.77	59.00	74.00	-15.00	peak	
2		4922.750	40.67	6.77	47.44	54.00	-6.56	AVG	
3		7386.100	44.21	15.98	60.19	74.00	-13.81	peak	
4	*	7386.100	32.33	15.98	48.31	54.00	-5.69	AVG	

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

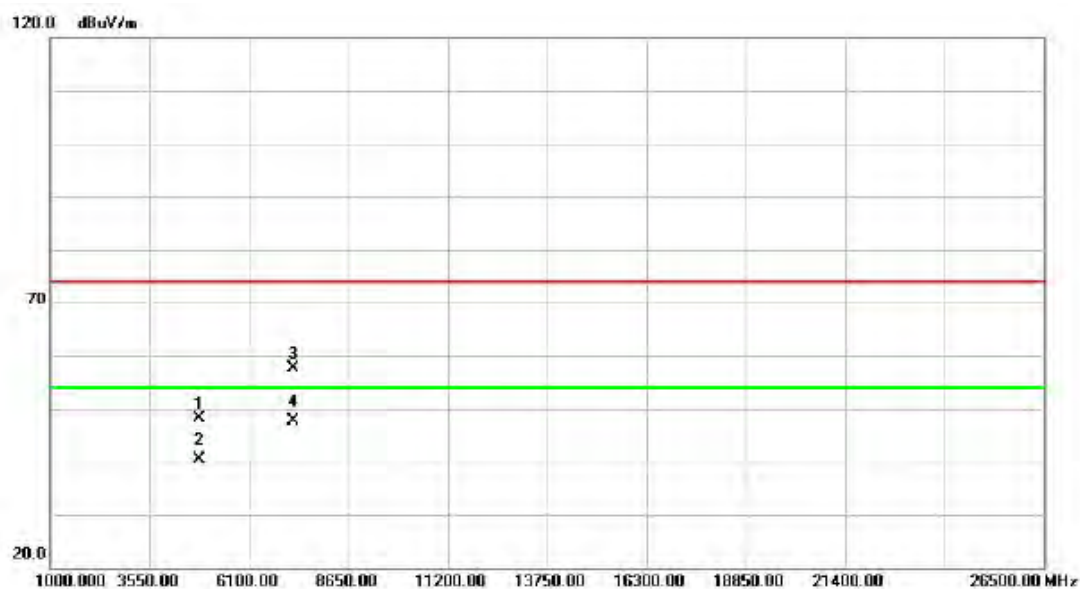
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	31.76	31.02	62.78	74.00	-11.22	peak	
2		2390.000	17.98	31.02	49.00	54.00	-5.00	AVG	
3	X	2413.500	77.43	31.14	108.57	74.00	34.57	peak	No Limit
4	*	2413.500	69.07	31.14	100.21	54.00	46.21	AVG	No Limit

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

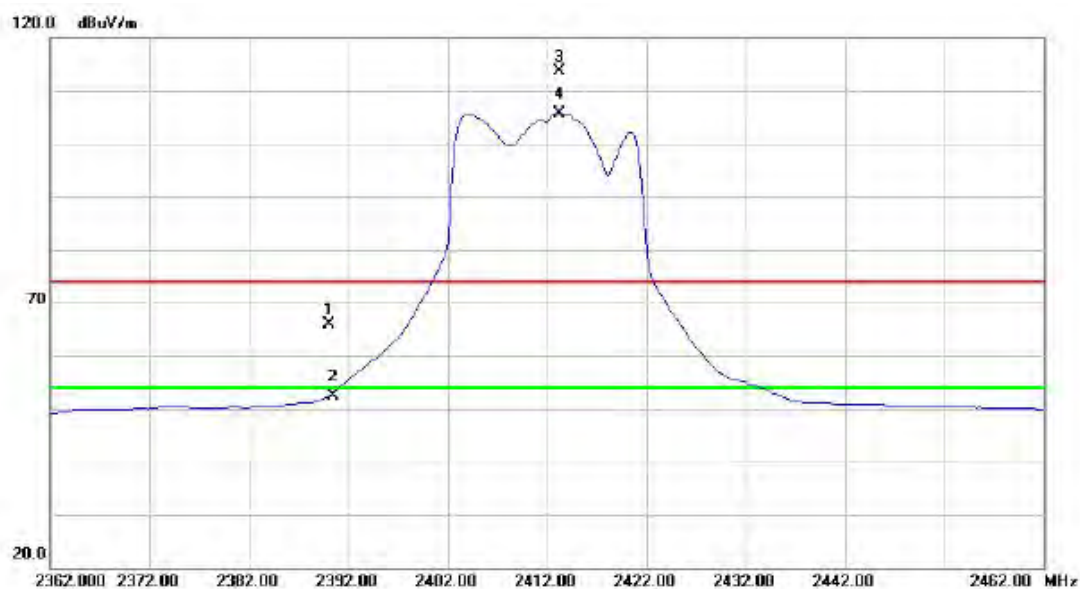
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.800	41.36	6.78	48.14	74.00	-25.86	peak	
2		4823.800	33.63	6.78	40.41	54.00	-13.59	AVG	
3		7236.750	42.40	15.17	57.57	74.00	-16.43	peak	
4	*	7236.750	32.45	15.17	47.62	54.00	-6.38	AVG	

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

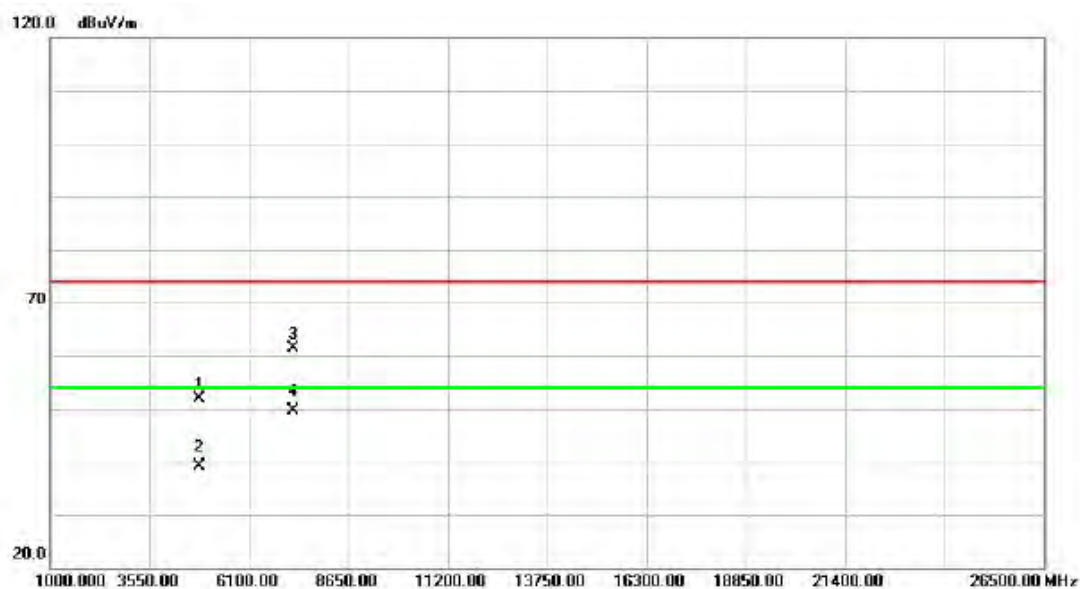
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	34.90	31.02	65.92	74.00	-8.08	peak	
2		2390.000	21.44	31.02	52.46	54.00	-1.54	AVG	
3	X	2413.250	82.50	31.14	113.64	74.00	39.64	peak	No Limit
4	*	2413.250	74.54	31.14	105.68	54.00	51.68	AVG	No Limit

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

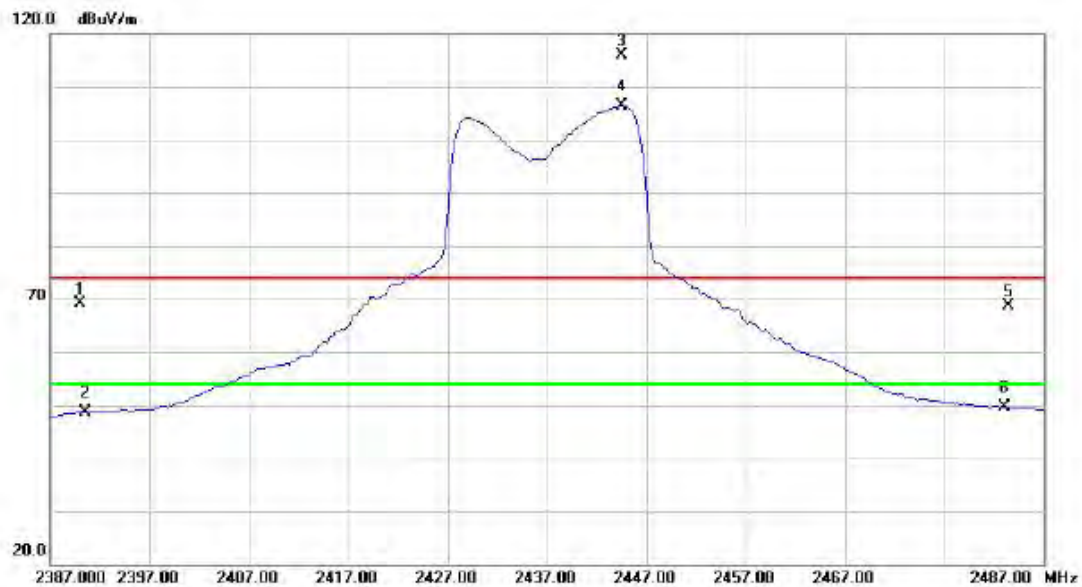
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4822.500	45.07	6.78	51.85	74.00	-22.15	peak	
2		4822.500	32.36	6.78	39.14	54.00	-14.86	AVG	
3		7234.900	46.16	15.17	61.33	74.00	-12.67	peak	
4	*	7234.900	34.53	15.17	49.70	54.00	-4.30	AVG	

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

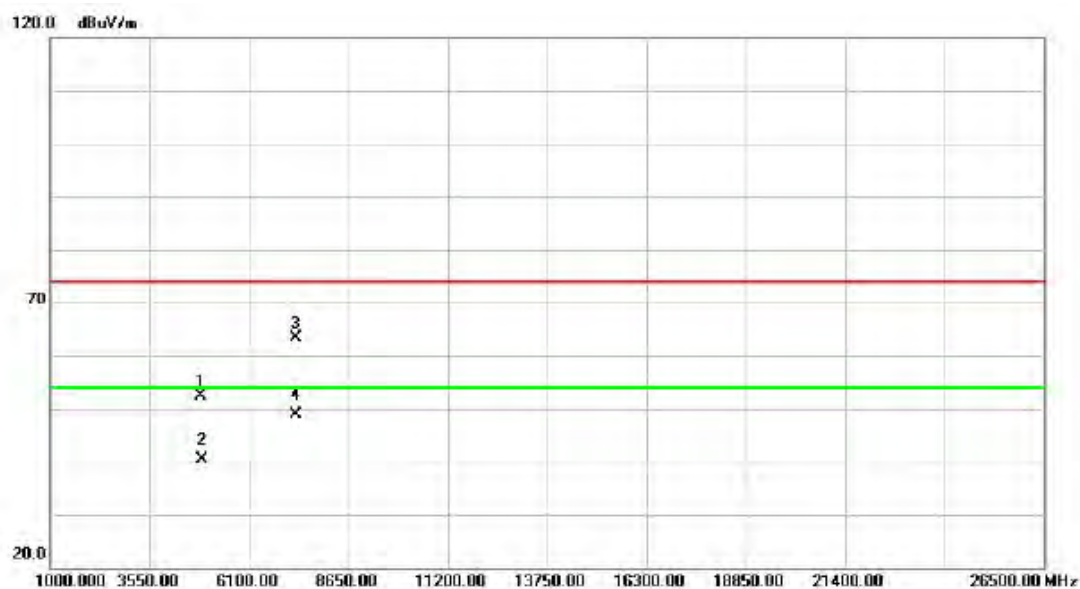
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	38.23	31.02	69.25	74.00	-4.75	peak	
2		2390.000	17.52	31.02	48.54	54.00	-5.46	AVG	
3	X	2444.500	84.60	31.28	115.88	74.00	41.88	peak	No Limit
4	*	2444.500	75.10	31.28	106.38	54.00	52.38	AVG	No Limit
5		2483.500	37.14	31.46	68.60	74.00	-5.40	peak	
6		2483.500	18.15	31.46	49.61	54.00	-4.39	AVG	

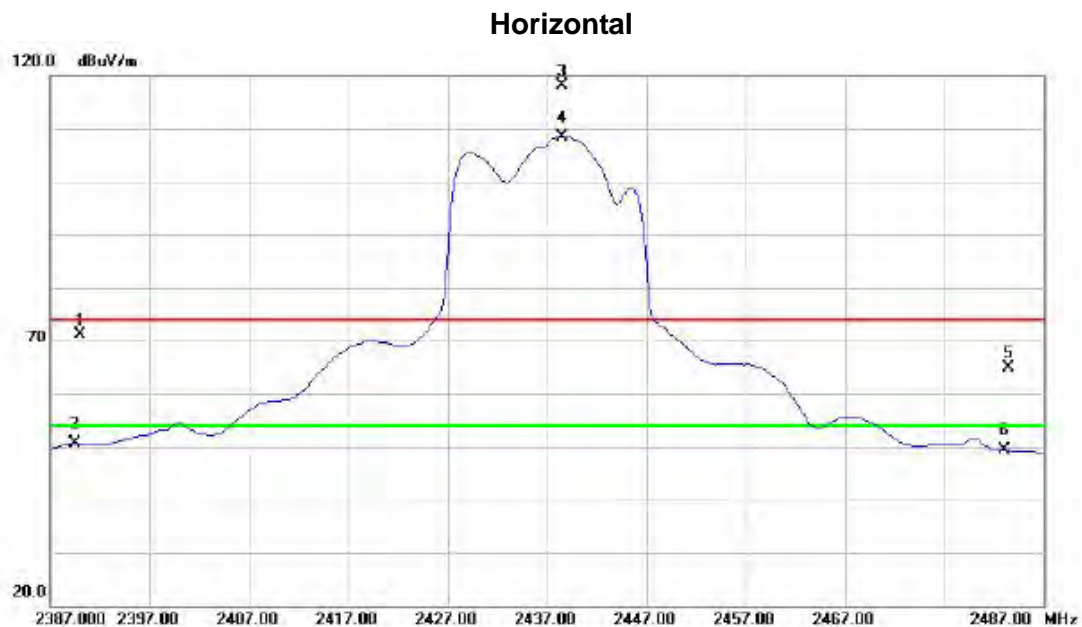
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4866.375	45.55	6.78	52.33	74.00	-21.67	peak	
2		4866.375	33.56	6.78	40.34	54.00	-13.66	AVG	
3		7305.375	47.91	15.54	63.45	74.00	-10.55	peak	
4	*	7306.375	33.22	15.55	48.77	54.00	-5.23	AVG	

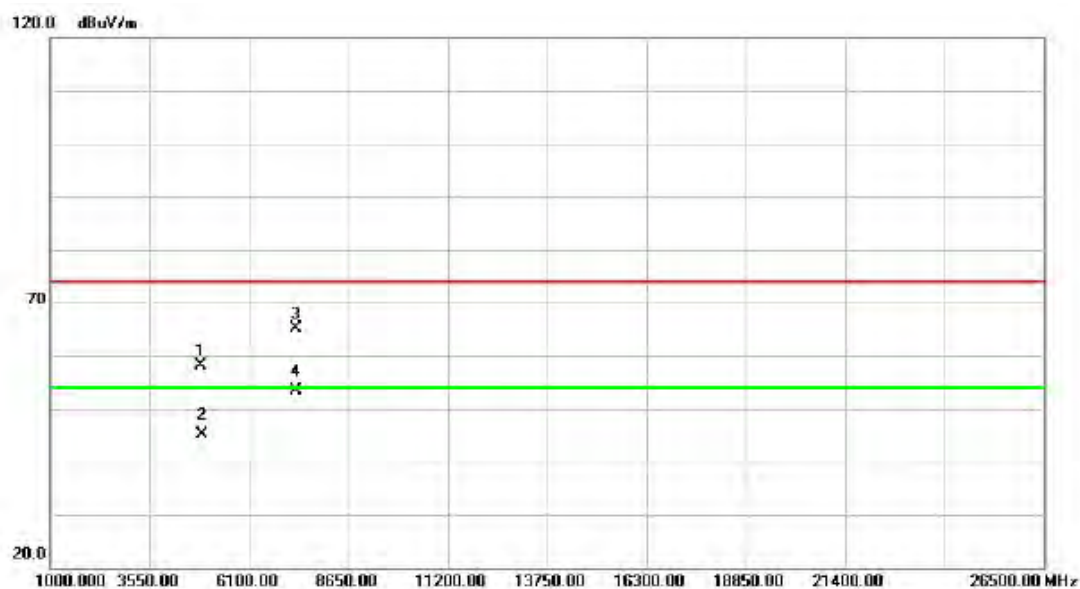
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	40.06	31.02	71.08	74.00	-2.92	peak	
2		2390.000	19.56	31.02	50.58	54.00	-3.42	AVG	
3	X	2438.500	86.80	31.25	118.05	74.00	44.05	peak	No Limit
4	*	2438.500	77.25	31.25	108.50	54.00	54.50	AVG	No Limit
5		2483.500	33.52	31.46	64.98	74.00	-9.02	peak	
6		2483.500	17.80	31.46	49.26	54.00	-4.74	AVG	

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

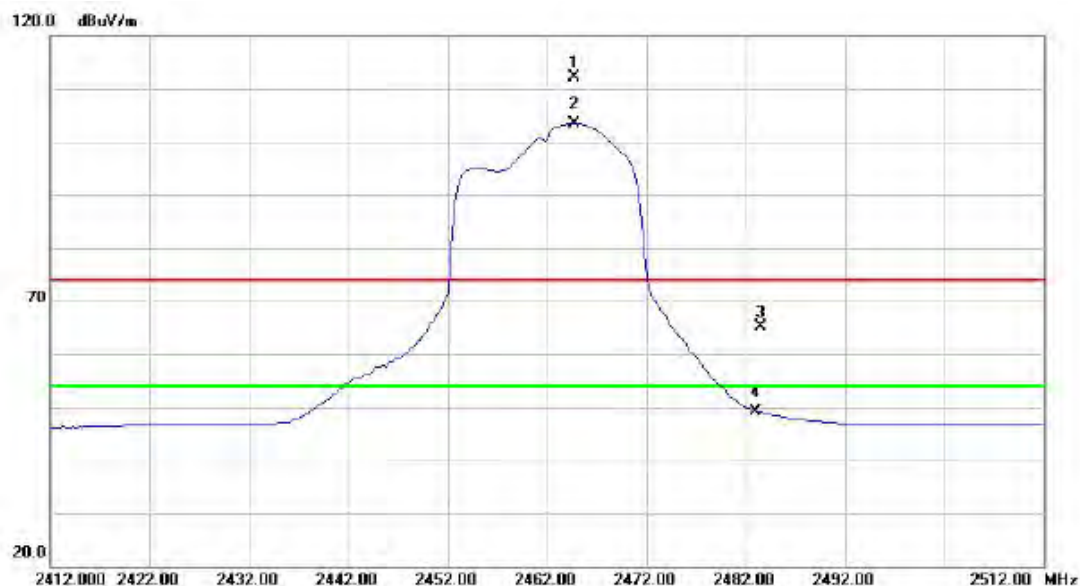
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4864.750	51.42	6.78	58.20	74.00	-15.80	peak	
2		4864.750	38.32	6.78	45.10	54.00	-8.90	AVG	
3		7307.375	49.51	15.56	65.07	74.00	-8.93	peak	
4	*	7307.375	37.80	15.56	53.36	54.00	-0.64	AVG	

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

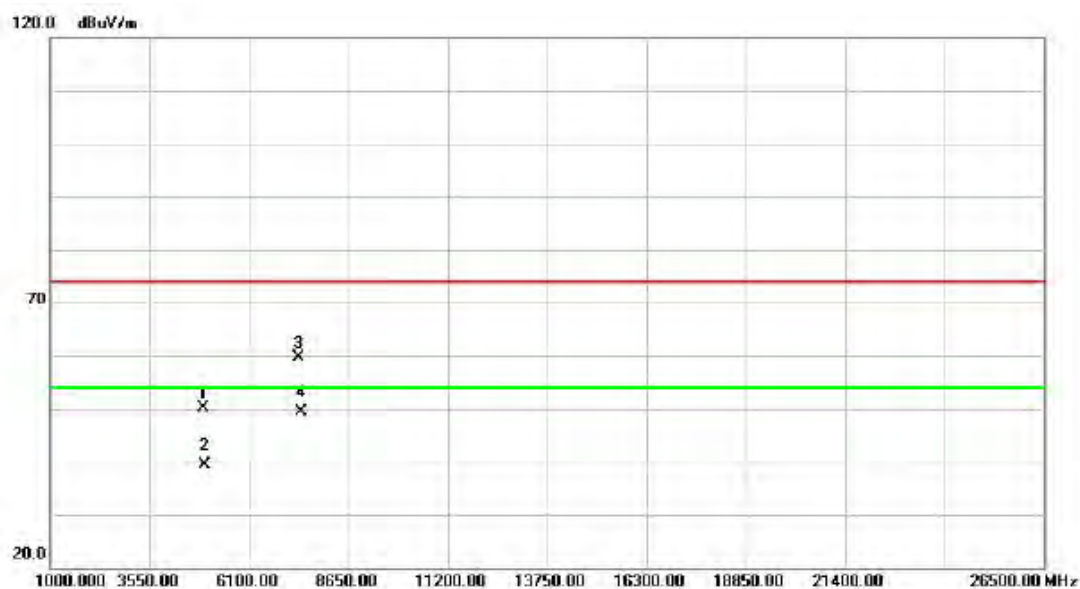
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2464.750	80.71	31.37	112.08	74.00	38.08	peak	No Limit
2	*	2464.750	72.00	31.37	103.37	54.00	49.37	AVG	No Limit
3		2483.500	33.56	31.46	65.02	74.00	-8.98	peak	
4		2483.500	17.55	31.46	49.01	54.00	-4.99	AVG	

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

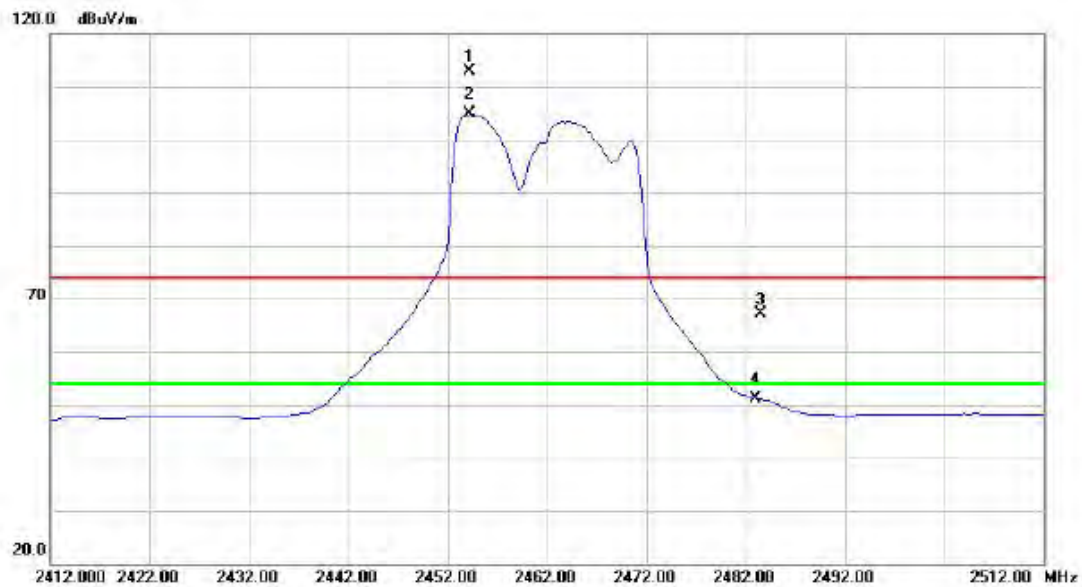
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4928.500	43.39	6.77	50.16	74.00	-23.84	peak	
2		4928.500	32.56	6.77	39.33	54.00	-14.67	AVG	
3		7387.750	43.59	15.99	59.58	74.00	-14.42	peak	
4	*	7387.750	33.36	15.99	49.35	54.00	-4.65	AVG	

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

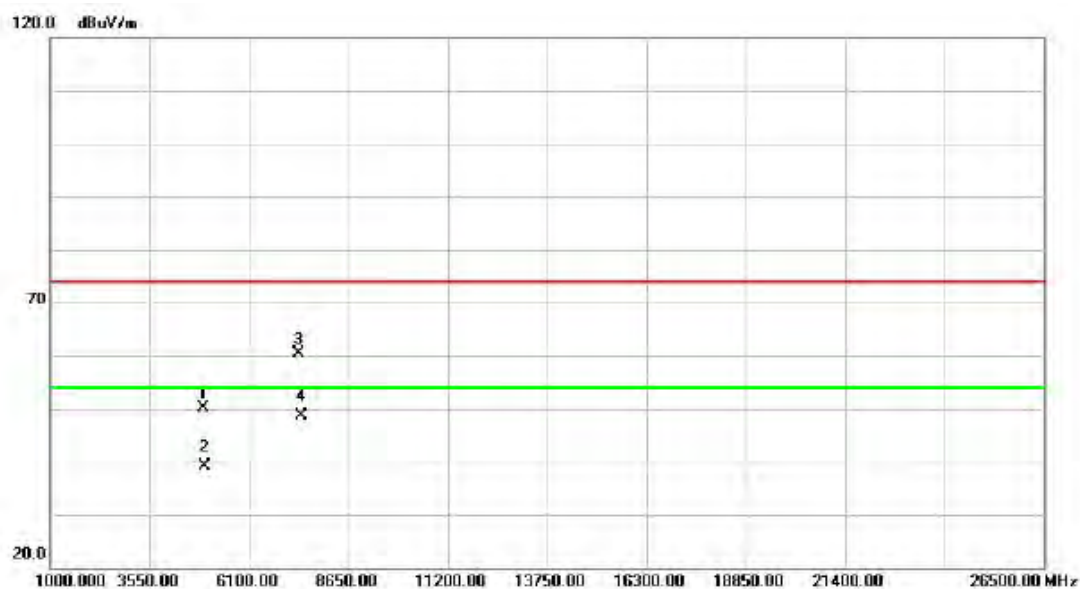
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2454.250	81.65	31.32	112.97	74.00	38.97	peak	No Limit
2	*	2454.250	73.53	31.32	104.85	54.00	50.85	AVG	No Limit
3		2483.500	35.61	31.46	67.07	74.00	-6.93	peak	
4		2483.500	19.61	31.46	51.07	54.00	-2.93	AVG	

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

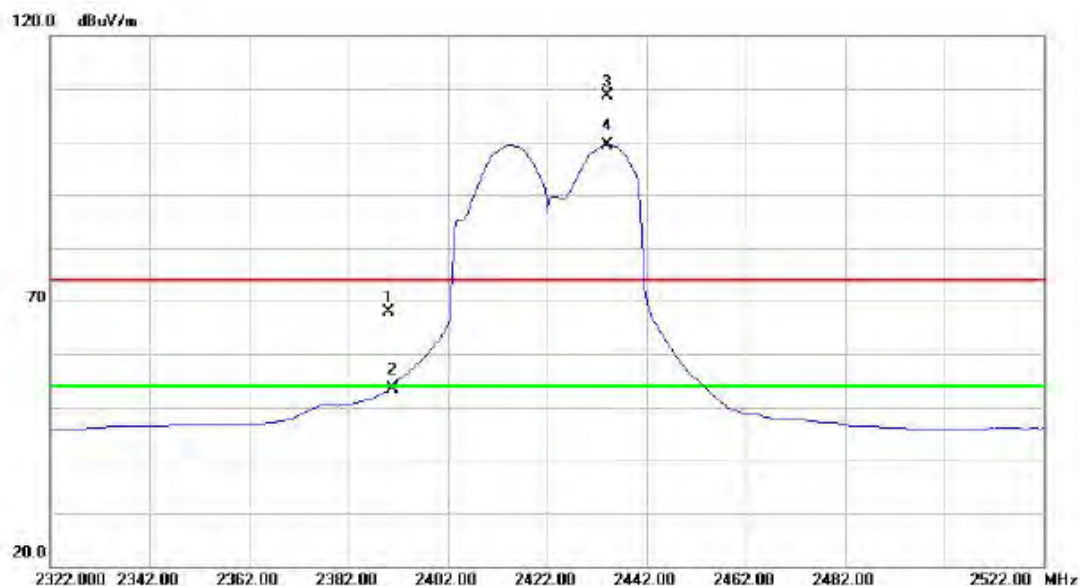
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.500	43.40	6.77	50.17	74.00	-23.83	peak	
2		4924.500	32.45	6.77	39.22	54.00	-14.78	AVG	
3		7382.125	44.40	15.96	60.36	74.00	-13.64	peak	
4	*	7382.125	32.65	15.96	48.61	54.00	-5.39	AVG	

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

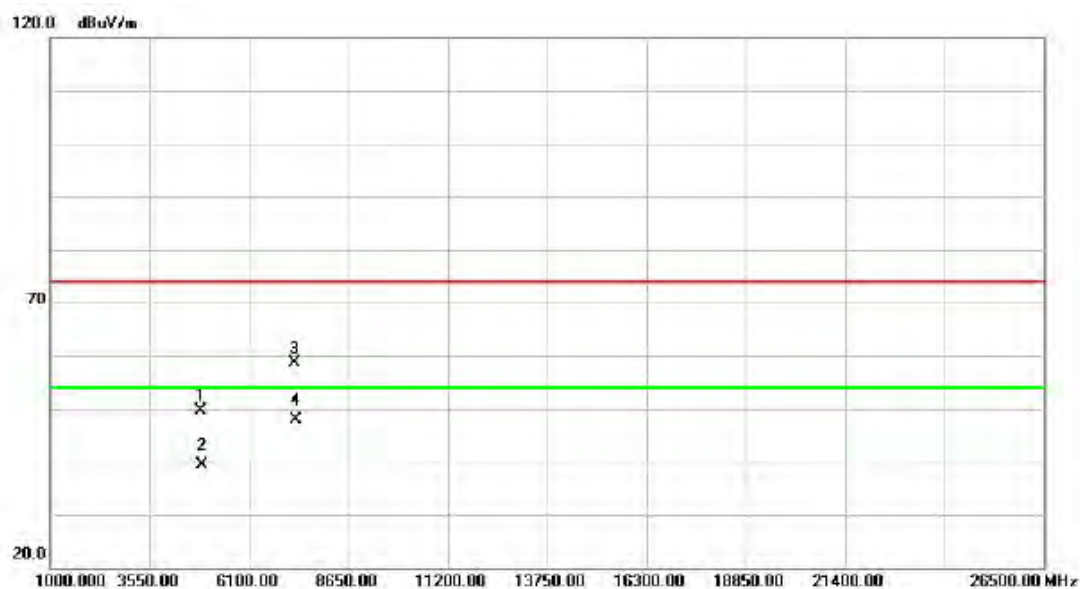
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	36.87	31.02	67.89	74.00	-6.11	peak	
2		2390.000	22.33	31.02	53.35	54.00	-0.65	AVG	
3	X	2434.000	77.35	31.23	108.58	74.00	34.58	peak	No Limit
4	*	2434.000	68.25	31.23	99.48	54.00	45.48	AVG	No Limit

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

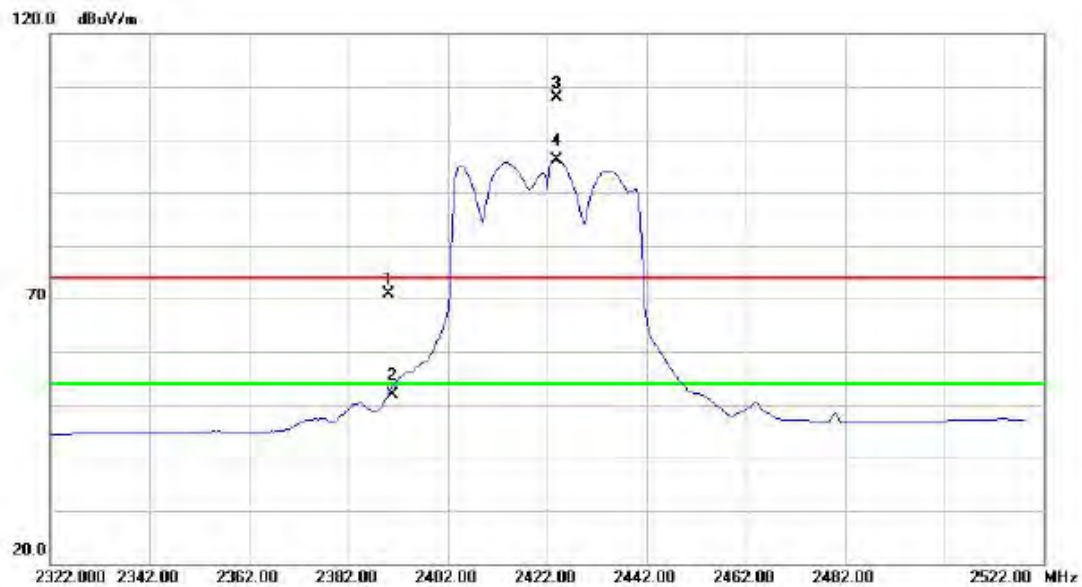
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.250	42.94	6.78	49.72	74.00	-24.28	peak	
2		4844.250	32.56	6.78	39.34	54.00	-14.66	AVG	
3		7267.625	43.34	15.35	58.69	74.00	-15.31	peak	
4	*	7267.625	32.63	15.35	47.98	54.00	-6.02	AVG	

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

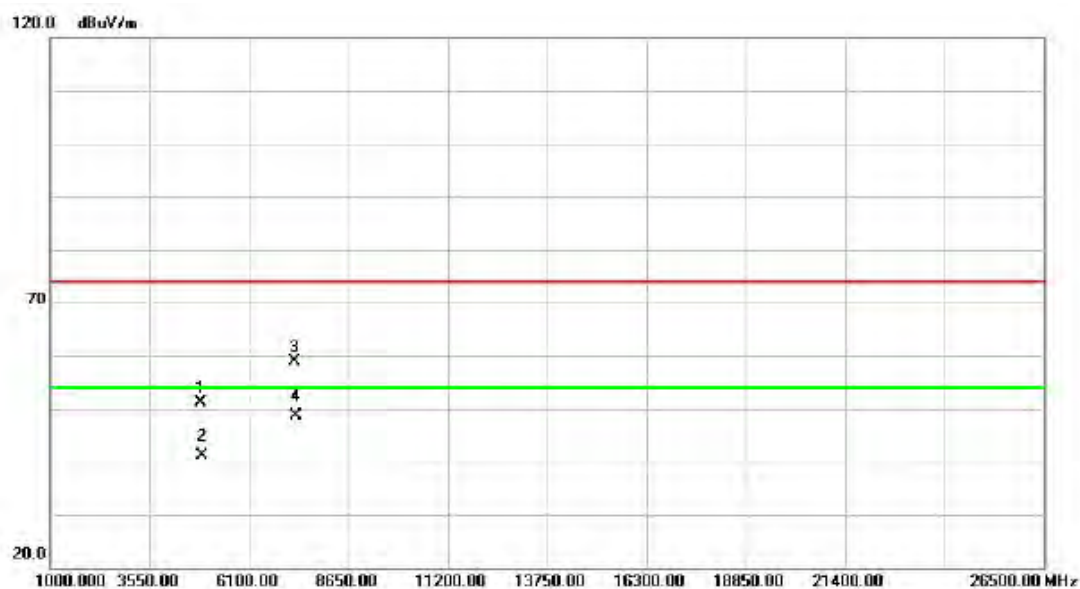
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	39.84	31.02	70.86	74.00	-3.14	peak	
2		2390.000	20.86	31.02	51.88	54.00	-2.12	AVG	
3	X	2424.000	76.59	31.18	107.77	74.00	33.77	peak	No Limit
4	*	2424.000	64.85	31.18	96.03	54.00	42.03	AVG	No Limit

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

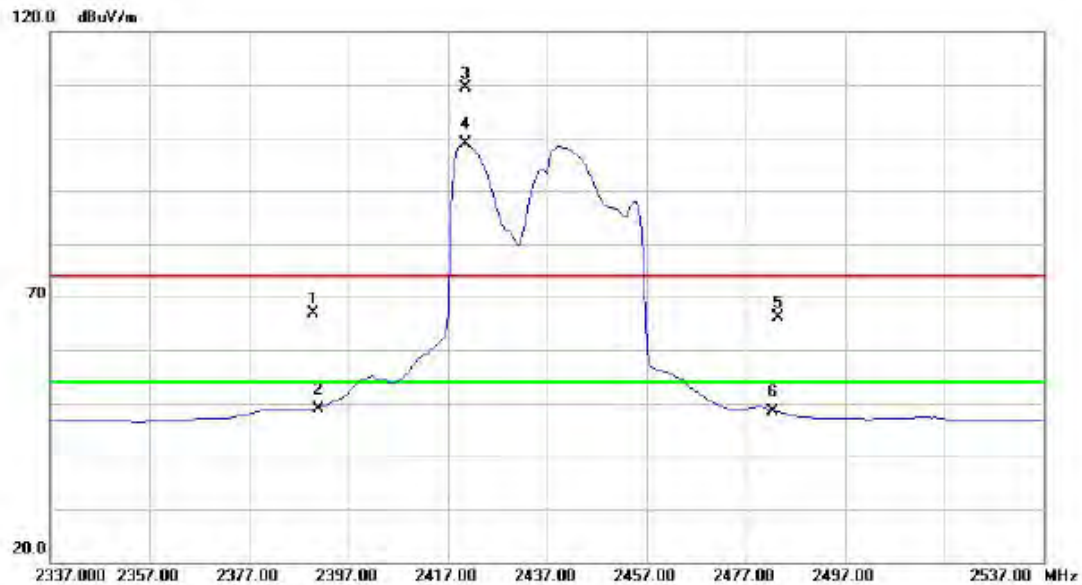
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4843.350	44.37	6.78	51.15	74.00	-22.85	peak	
2		4843.350	34.26	6.78	41.04	54.00	-12.96	AVG	
3		7267.450	43.50	15.35	58.85	74.00	-15.15	peak	
4	*	7267.450	33.16	15.35	48.51	54.00	-5.49	AVG	

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

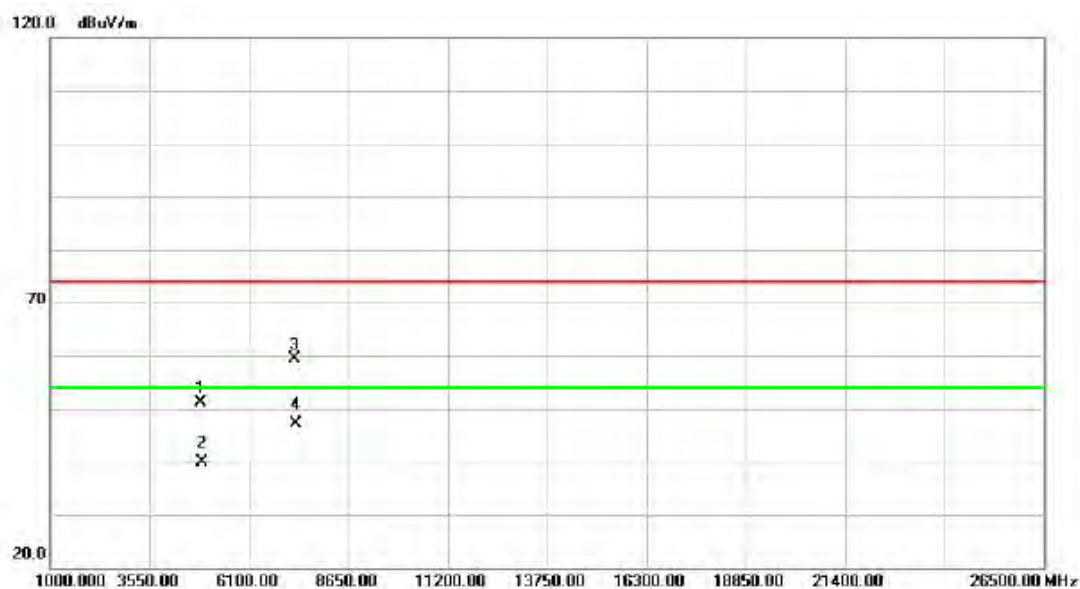
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	35.91	31.02	66.93	74.00	-7.07	peak	
2		2390.000	17.79	31.02	48.81	54.00	-5.19	AVG	
3	X	2420.500	78.14	31.17	109.31	74.00	35.31	peak	No Limit
4	*	2420.500	67.68	31.17	98.85	54.00	44.85	AVG	No Limit
5		2483.500	34.61	31.46	66.07	74.00	-7.93	peak	
6		2483.500	16.84	31.46	48.30	54.00	-5.70	AVG	

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

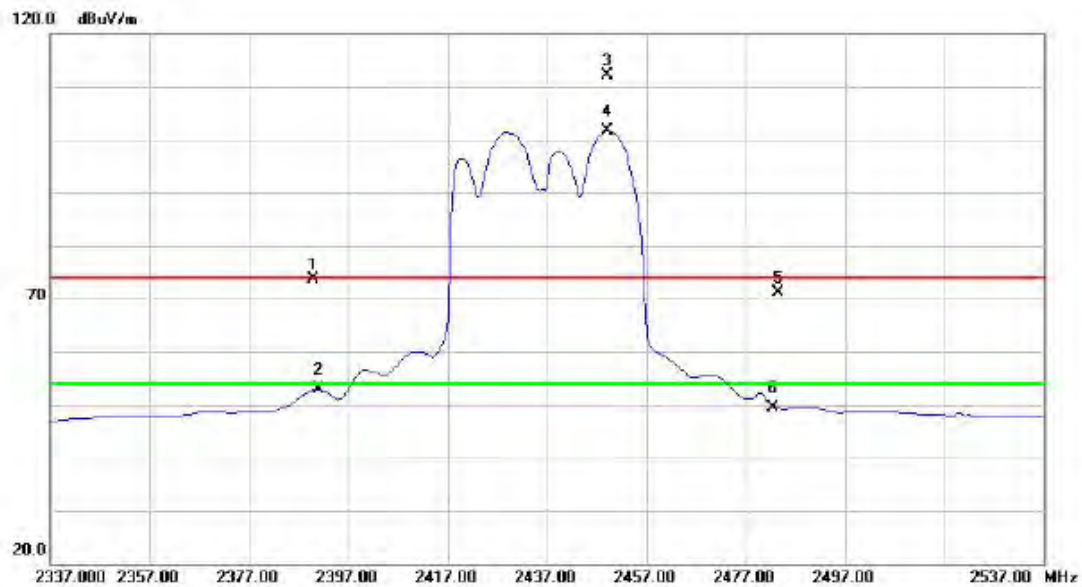
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4868.250	44.33	6.78	51.11	74.00	-22.89	peak	
2		4868.250	33.09	6.78	39.87	54.00	-14.13	AVG	
3		7287.000	44.02	15.45	59.47	74.00	-14.53	peak	
4	*	7287.000	31.57	15.45	47.02	54.00	-6.98	AVG	

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

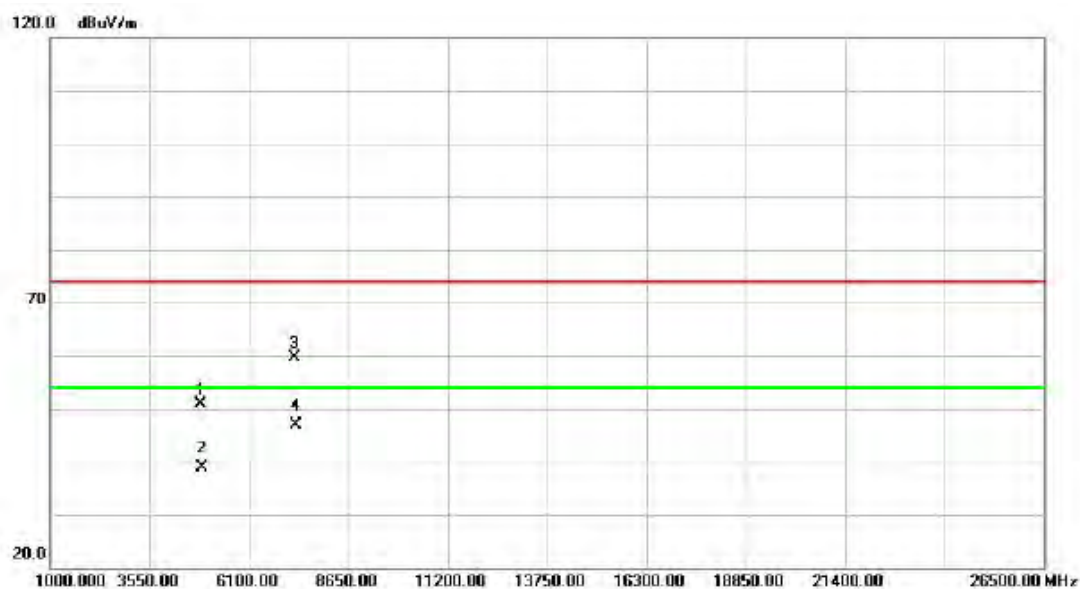
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	42.70	31.02	73.72	74.00	-0.28	peak	
2		2390.000	21.76	31.02	52.78	54.00	-1.22	AVG	
3	X	2449.000	80.76	31.30	112.06	74.00	38.06	peak	No Limit
4	*	2449.000	70.24	31.30	101.54	54.00	47.54	AVG	No Limit
5		2483.500	39.62	31.46	71.08	74.00	-2.92	peak	
6		2483.500	17.98	31.46	49.44	54.00	-4.56	AVG	

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

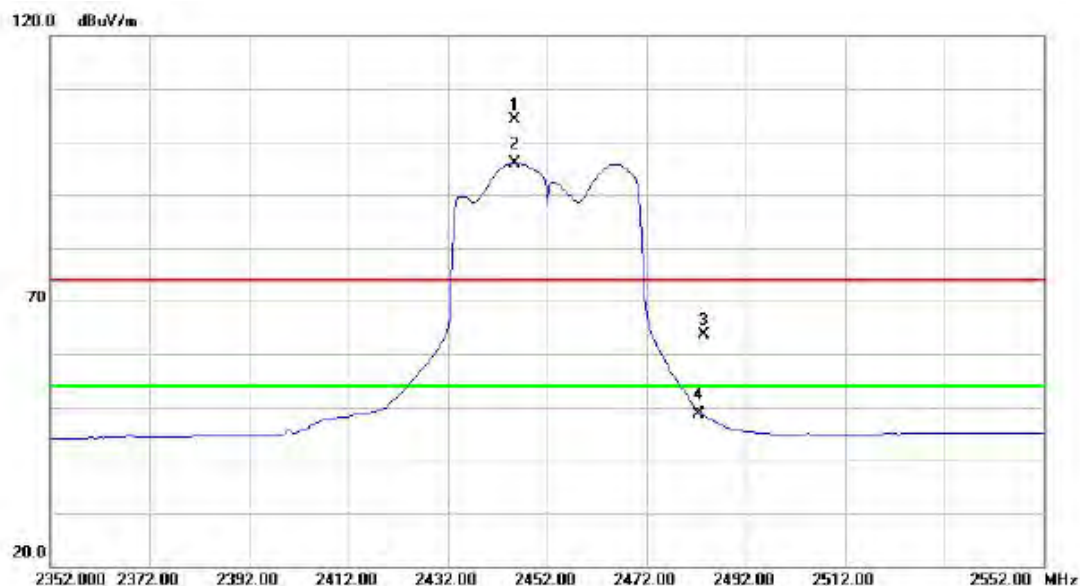
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4866.750	44.17	6.78	50.95	74.00	-23.05	peak	
2		4866.750	32.19	6.78	38.97	54.00	-15.03	AVG	
3		7285.500	44.15	15.44	59.59	74.00	-14.41	peak	
4	*	7285.500	31.51	15.44	46.95	54.00	-7.05	AVG	

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

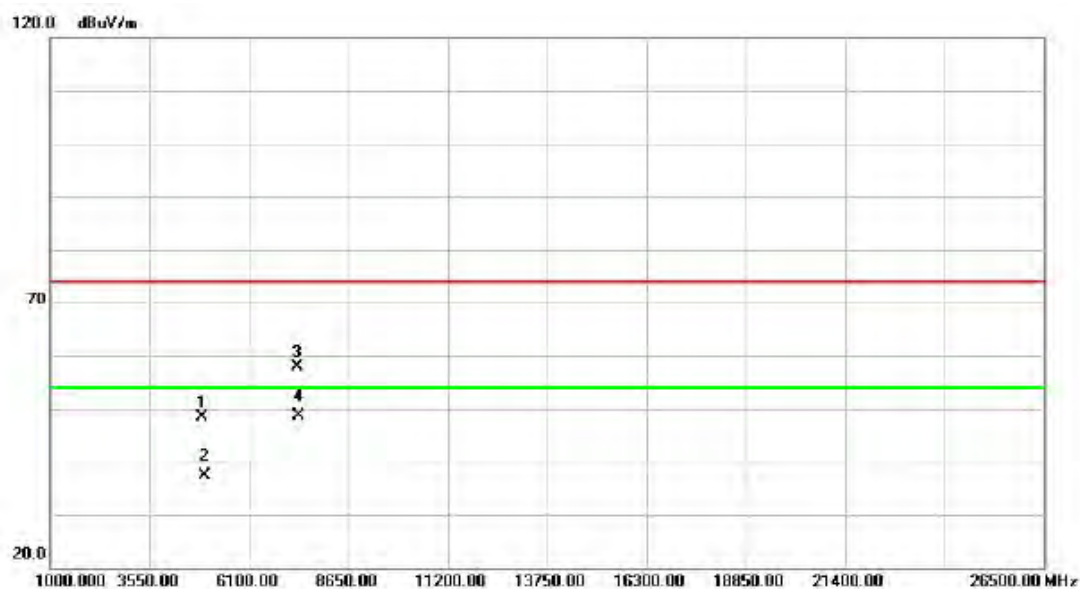
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2445.500	72.89	31.28	104.17	74.00	30.17	peak	No Limit
2	*	2445.500	64.62	31.28	95.90	54.00	41.90	AVG	No Limit
3		2483.500	32.20	31.46	63.66	74.00	-10.34	peak	
4		2483.500	17.23	31.46	48.69	54.00	-5.31	AVG	

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

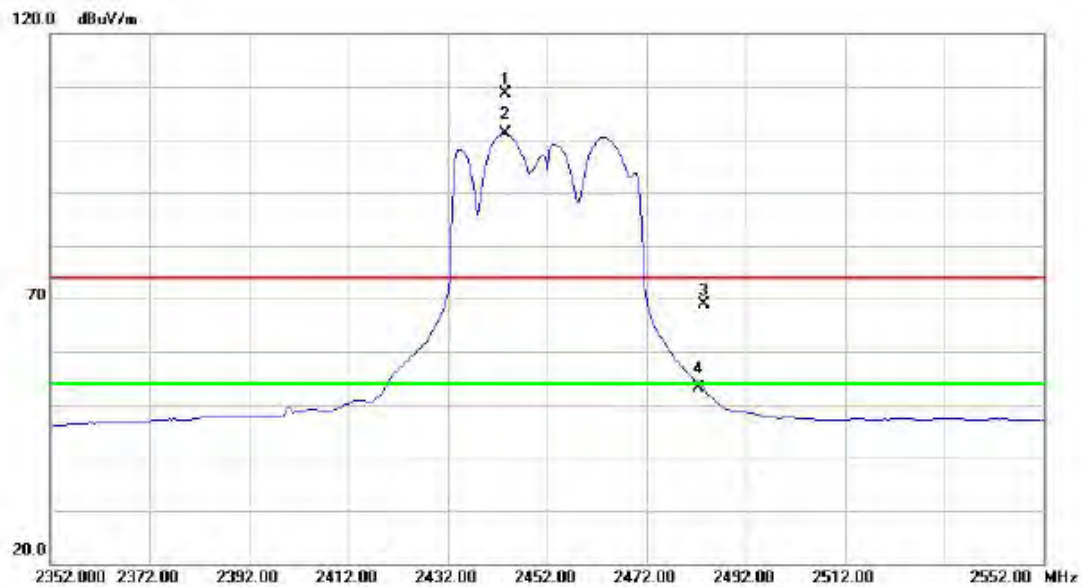
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4904.188	41.54	6.77	48.31	74.00	-25.69	peak	
2		4904.188	30.71	6.77	37.48	54.00	-16.52	AVG	
3		7356.925	41.97	15.83	57.80	74.00	-16.20	peak	
4	*	7356.925	32.74	15.83	48.57	54.00	-5.43	AVG	

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

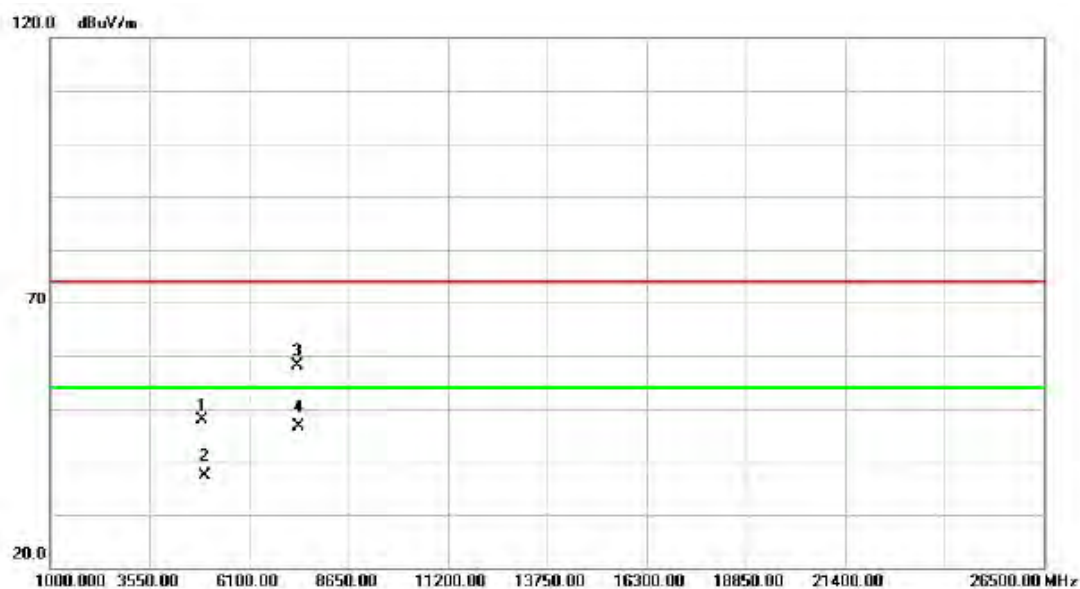
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2443.500	77.45	31.28	108.73	74.00	34.73	peak	No Limit
2	*	2443.500	69.92	31.28	101.20	54.00	47.20	AVG	No Limit
3		2483.500	37.50	31.46	68.96	74.00	-5.04	peak	
4		2483.500	21.70	31.46	53.16	54.00	-0.84	AVG	

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

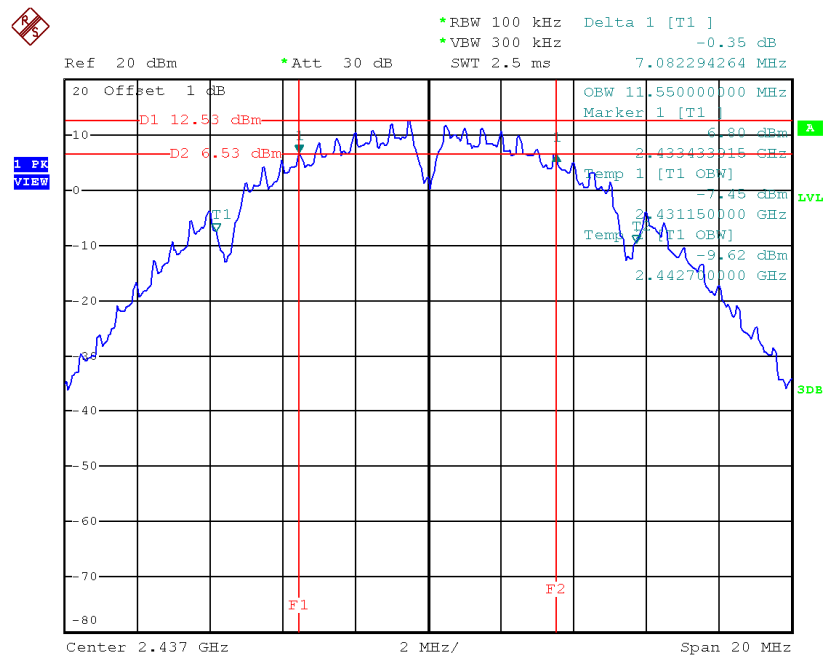
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4903.200	41.03	6.77	47.80	74.00	-26.20	peak	
2		4903.200	30.71	6.77	37.48	54.00	-16.52	AVG	
3		7356.387	42.26	15.82	58.08	74.00	-15.92	peak	
4	*	7356.387	30.73	15.82	46.55	54.00	-7.45	AVG	

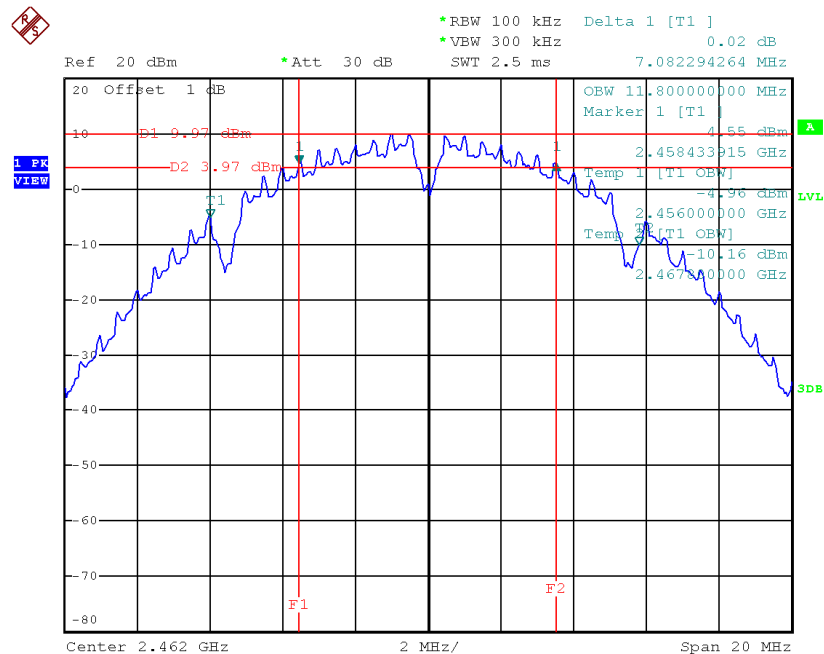
ATTACHMENT E - BANDWIDTH

TX CH06



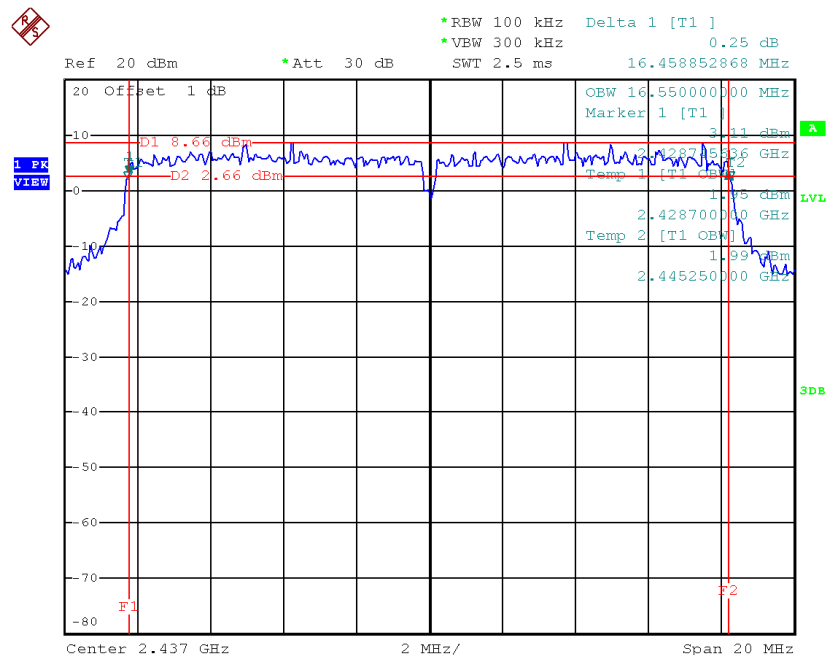
Date: 27.JAN.2015 15:08:13

TX CH11



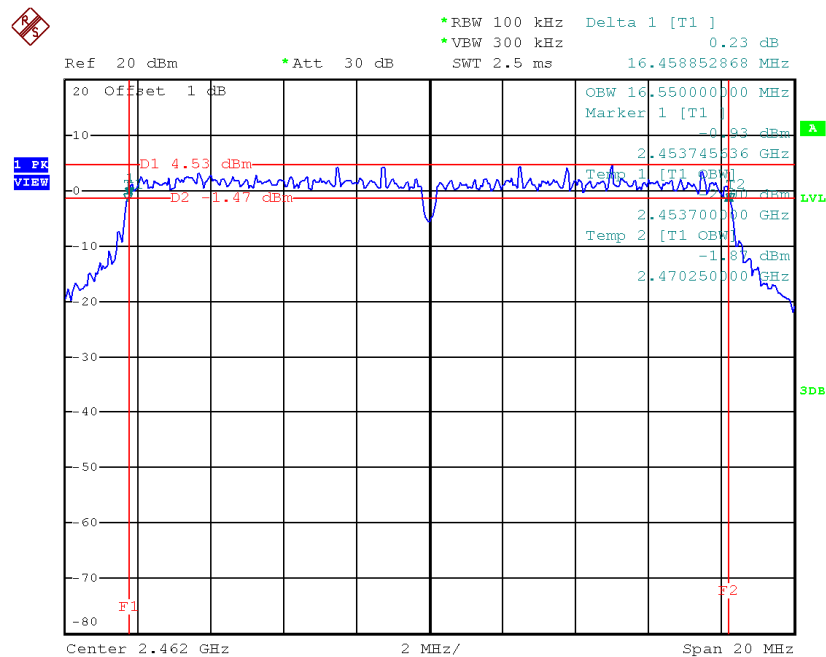
Date: 27.JAN.2015 15:10:32

TX CH06



Date: 27.JAN.2015 18:01:48

TX CH11

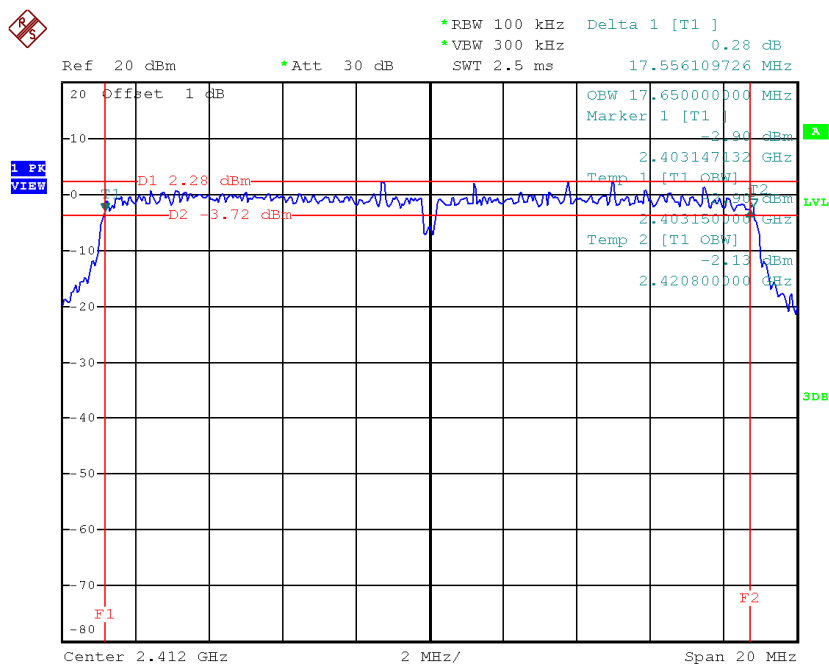


Date: 27.JAN.2015 15:29:36

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

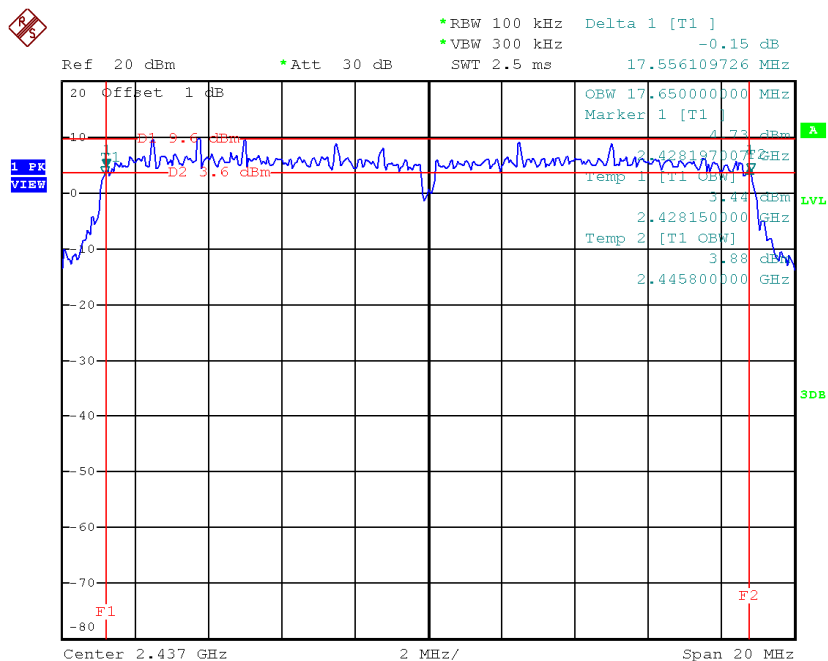
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.56	17.65	500	Complies
2437	17.56	17.65	500	Complies
2462	17.66	17.75	500	Complies

TX CH01



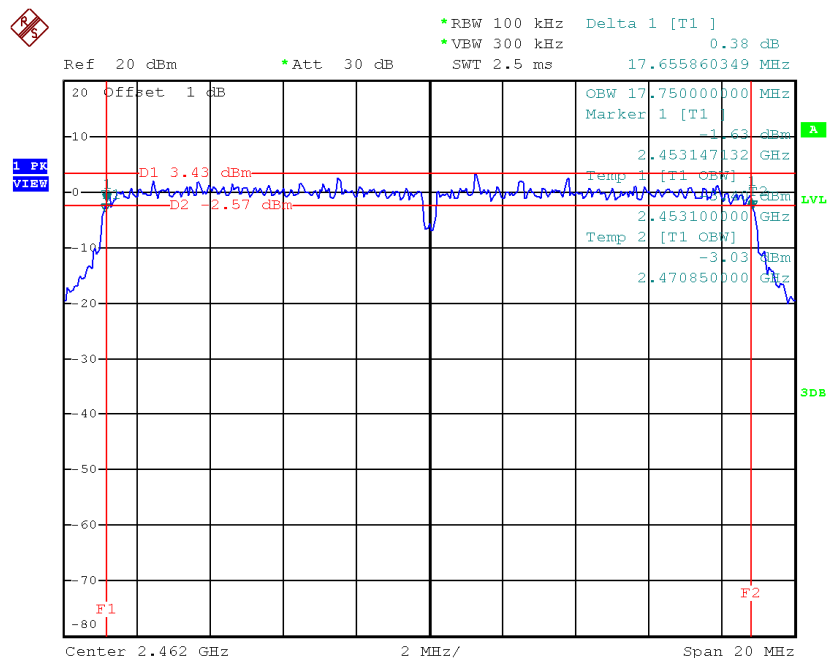
Date: 27.JAN.2015 15:33:12

TX CH06



Date: 27.JAN.2015 16:53:16

TX CH11

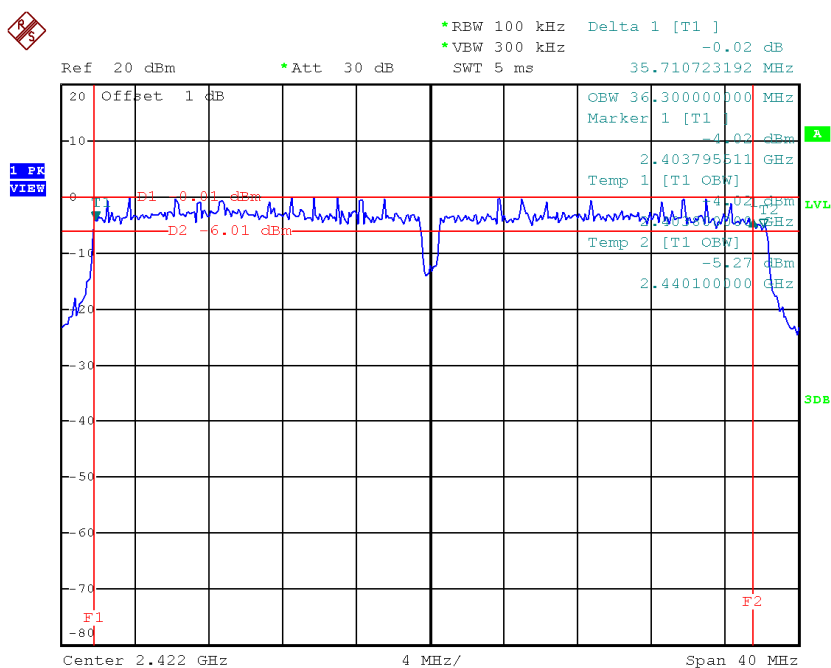


Date: 27.JAN.2015 16:26:25

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

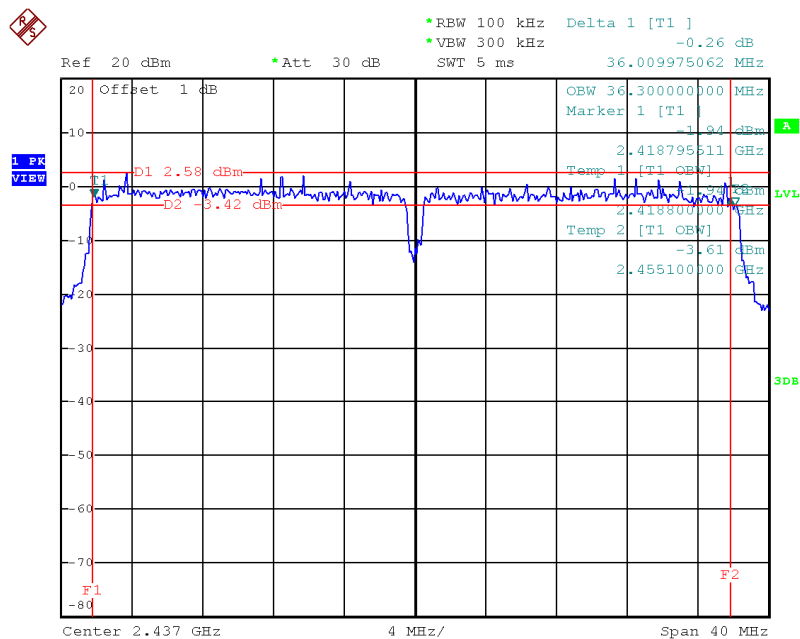
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.71	36.30	500	Complies
2437	36.01	36.30	500	Complies
2452	35.11	36.30	500	Complies

TX CH03



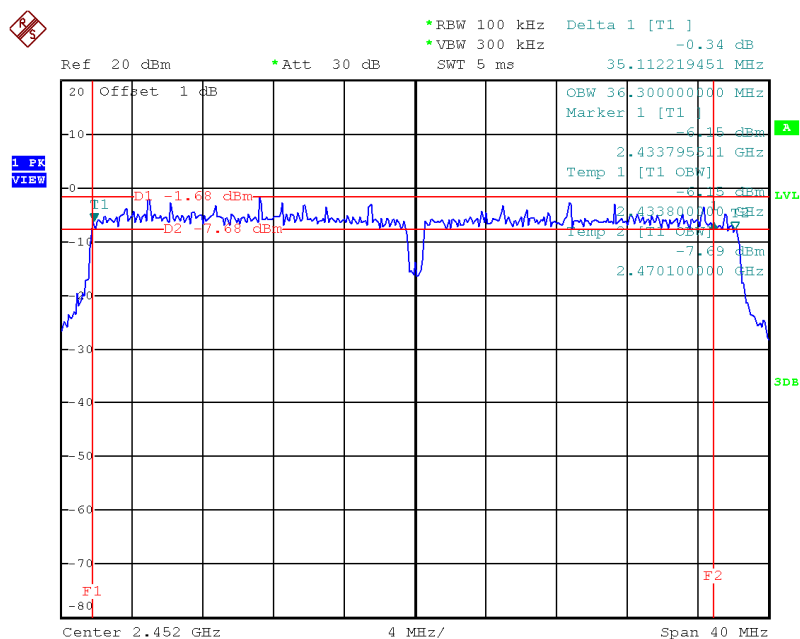
Date: 27.JAN.2015 16:32:01

TX CH06



Date: 27.JAN.2015 16:39:11

TX CH09



Date: 27.JAN.2015 16:49:57

ATTACHMENT F – MAXIMUM CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.05	0.08	30.00	1.00	Complies
2437	20.81	0.12	30.00	1.00	Complies
2462	18.44	0.07	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.99	0.10	30.00	1.00	Complies
2437	21.32	0.14	30.00	1.00	Complies
2462	19.46	0.09	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_ANT 3

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.58	0.07	30.00	1.00	Complies
2437	20.03	0.10	30.00	1.00	Complies
2462	18.23	0.07	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.02	0.25	30.00	1.00	Complies
2437	25.52	0.36	30.00	1.00	Complies
2462	23.52	0.22	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	15.11	0.03	30.00	1.00	Complies
2437	21.42	0.14	30.00	1.00	Complies
2462	15.82	0.04	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.42	0.04	30.00	1.00	Complies
2437	22.06	0.16	30.00	1.00	Complies
2462	16.61	0.05	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 3

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.75	0.03	30.00	1.00	Complies
2437	21.78	0.15	30.00	1.00	Complies
2462	14.78	0.03	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.26	0.11	30.00	1.00	Complies
2437	26.53	0.45	30.00	1.00	Complies
2462	20.57	0.11	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	17.92	0.06	30.00	1.00	Complies
2437	21.98	0.16	30.00	1.00	Complies
2462	17.49	0.06	30.00	1.00	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	18.67	0.07	30.00	1.00	Complies
2437	22.48	0.18	30.00	1.00	Complies
2462	19.32	0.09	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 3

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.20	0.07	30.00	1.00	Complies
2437	22.07	0.16	30.00	1.00	Complies
2462	17.38	0.05	30.00	1.00	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	23.05	0.20	30.00	1.00	Complies
2437	26.95	0.50	30.00	1.00	Complies
2462	22.93	0.20	30.00	1.00	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	17.56	0.06	30.00	1.00	Complies
2437	17.09	0.05	30.00	1.00	Complies
2452	12.76	0.02	30.00	1.00	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	17.42	0.06	30.00	1.00	Complies
2437	17.56	0.06	30.00	1.00	Complies
2452	14.32	0.03	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 3

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	16.74	0.05	30.00	1.00	Complies
2437	17.03	0.05	30.00	1.00	Complies
2452	13.11	0.02	30.00	1.00	Complies

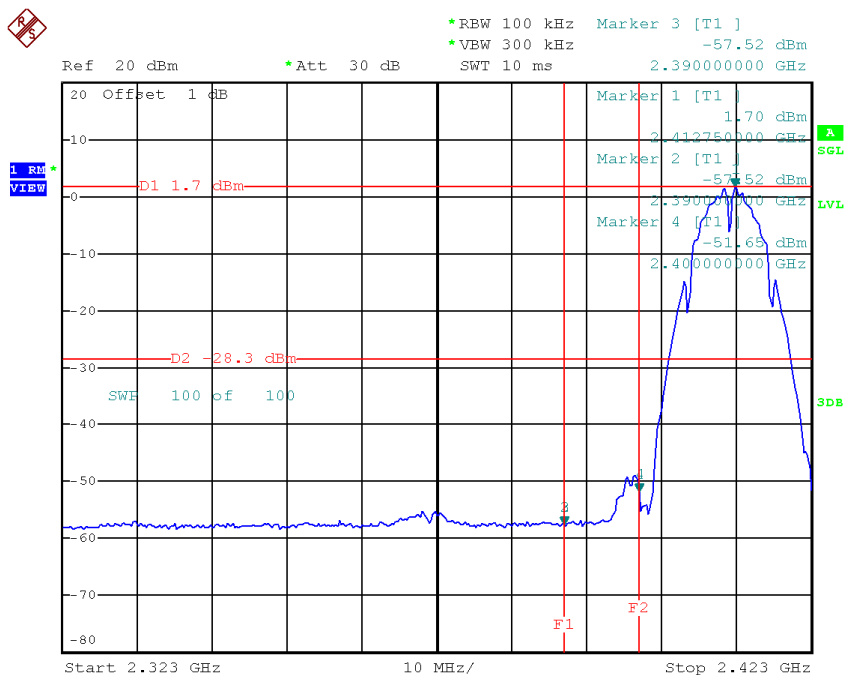
Test Mode :TX N40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.03	0.16	30.00	1.00	Complies
2437	22.00	0.16	30.00	1.00	Complies
2452	18.22	0.07	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

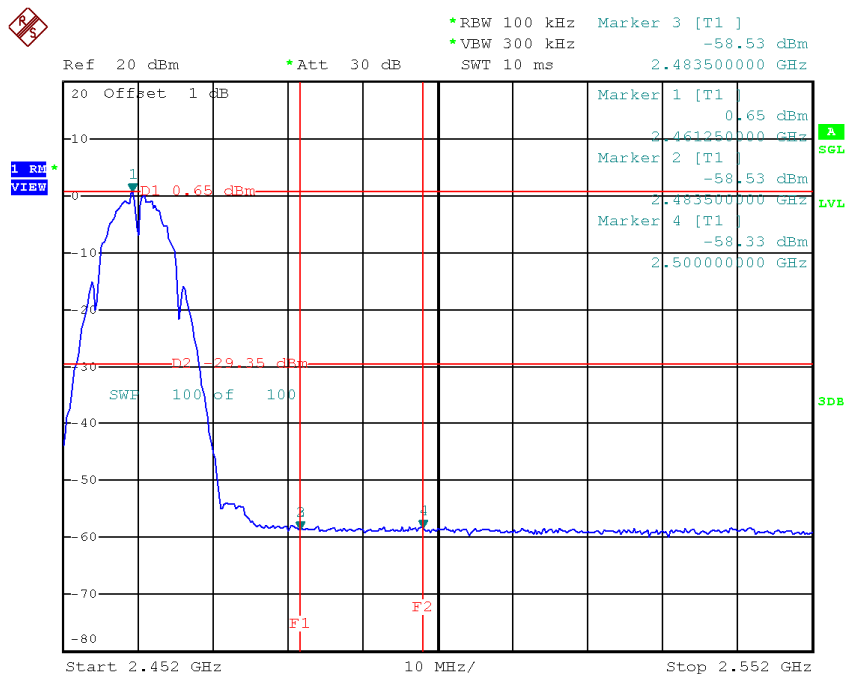
Test Mode :	TX B Mode_ANT 1
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TX B mode CH01



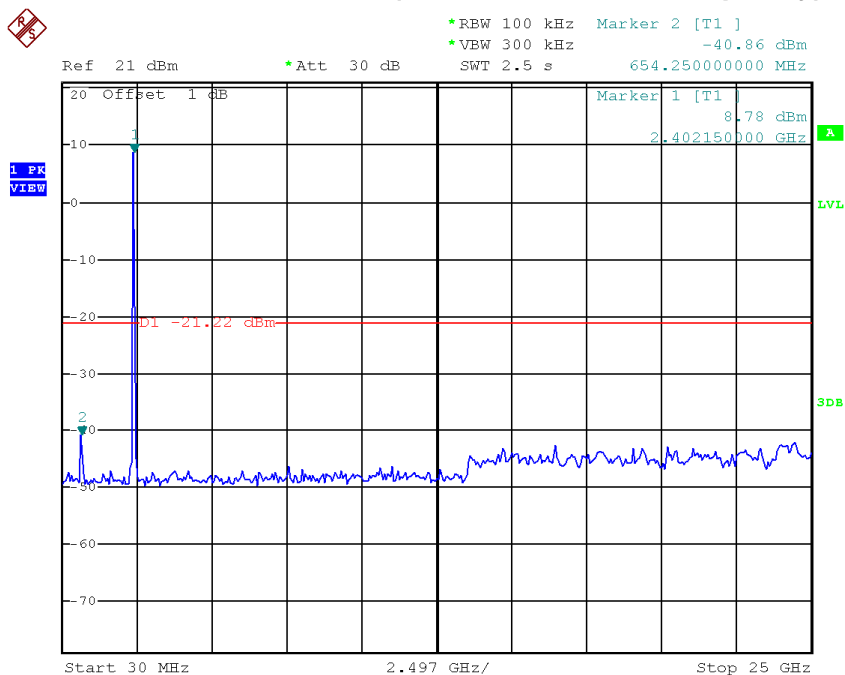
Date: 27.JAN.2015 15:05:24

TX B mode CH11



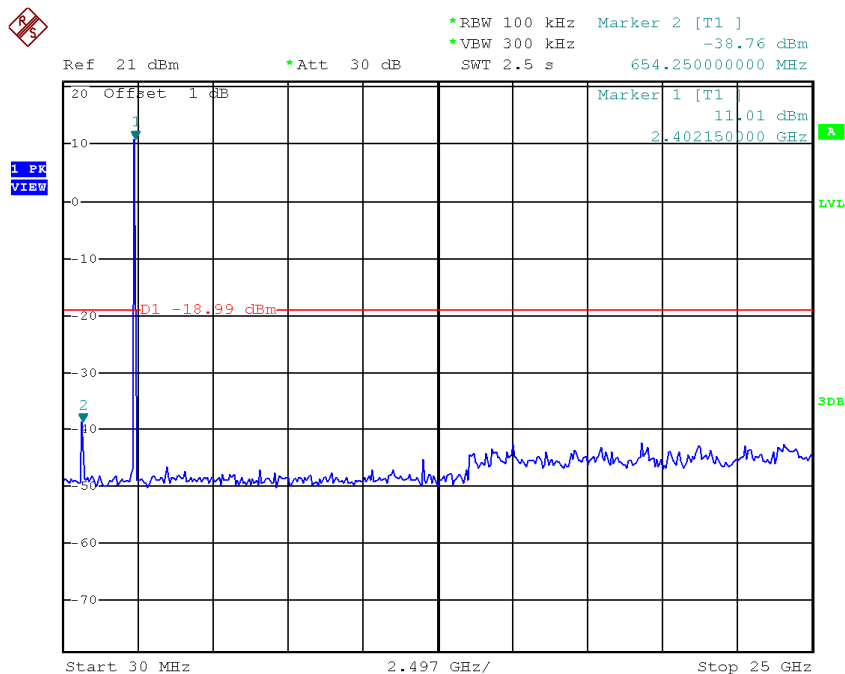
Date: 27.JAN.2015 15:12:23

TX B mode CH01 (10 Harmonic of the frequency)



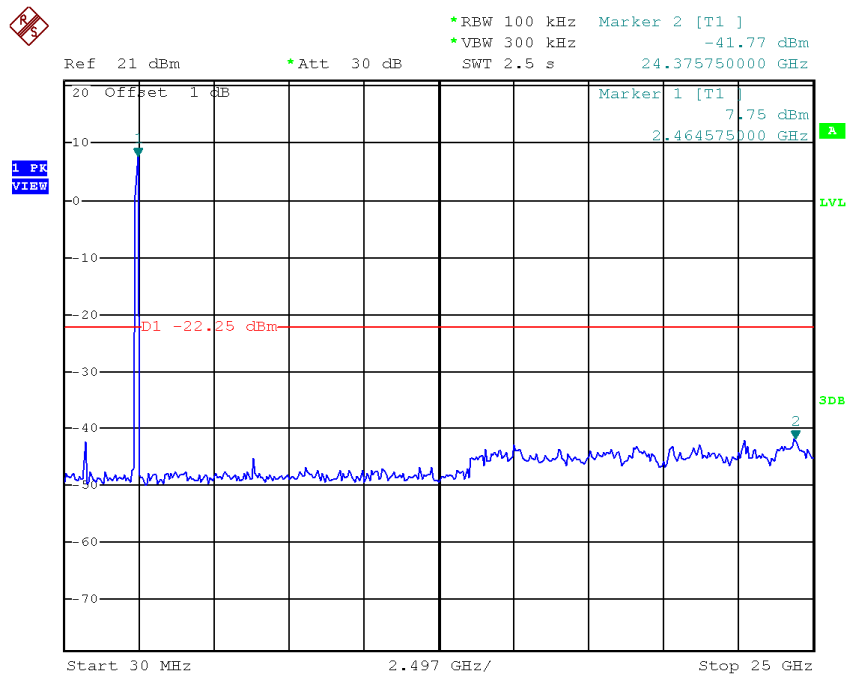
Date: 28.JAN.2015 00:28:44

TX B mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:02:35

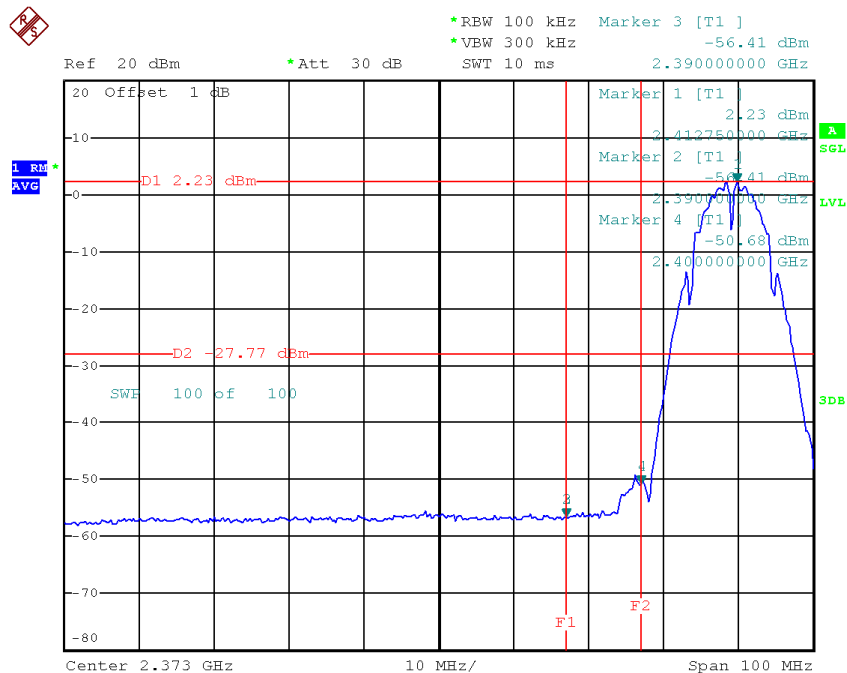
TX B mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 00:34:49

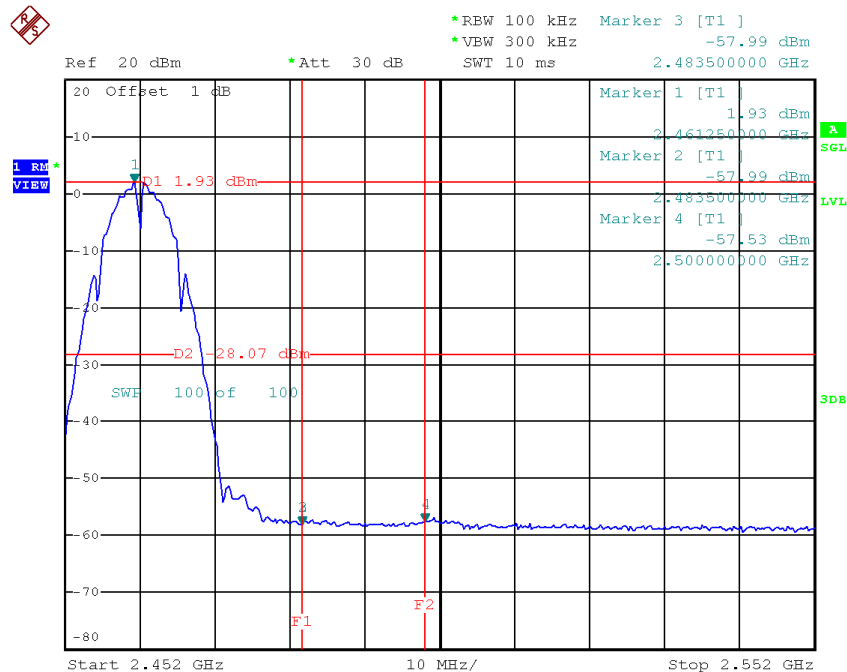
Test Mode :	TX B Mode_ANT 2
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TX B mode CH01



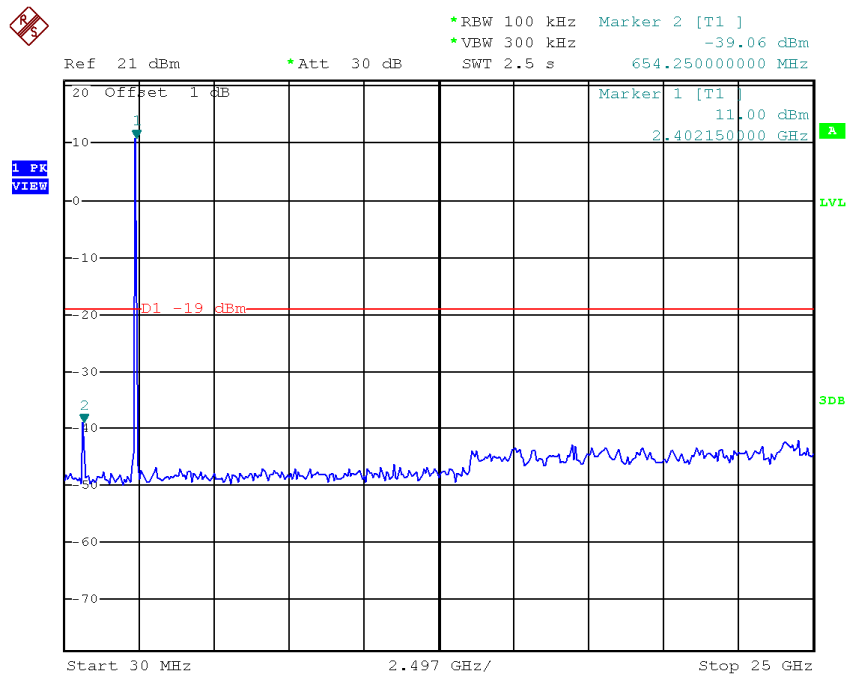
Date: 27.JAN.2015 14:28:30

TX B mode CH11



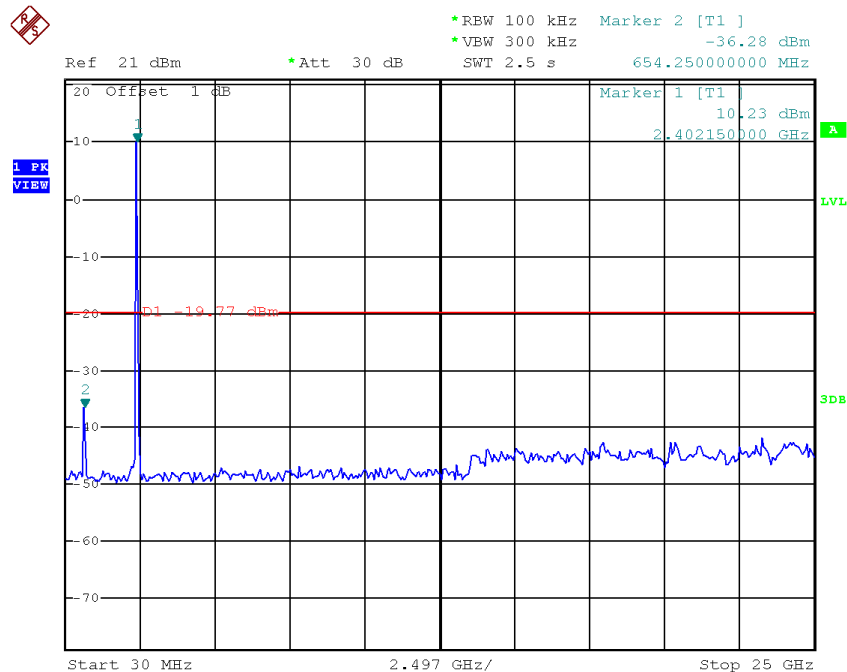
Date: 27.JAN.2015 14:46:22

TX B mode CH01 (10 Harmonic of the frequency)



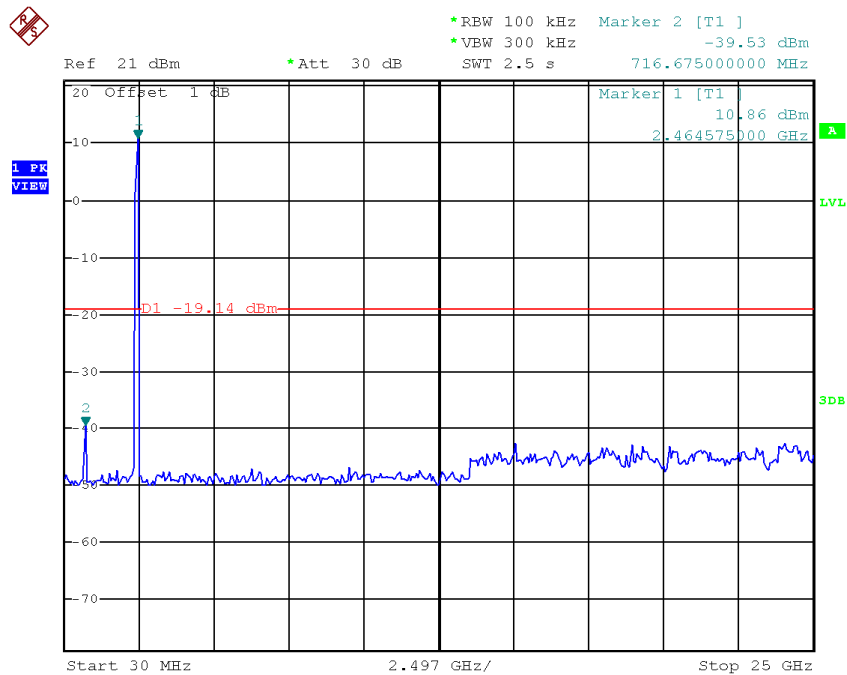
Date: 28.JAN.2015 00:30:58

TX B mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 00:32:15

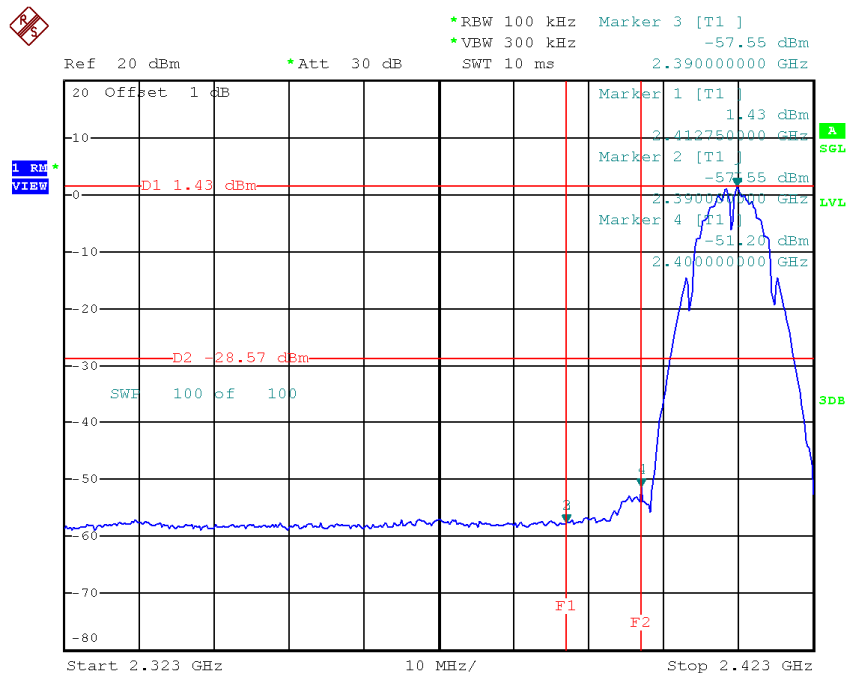
TX B mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 00:33:37

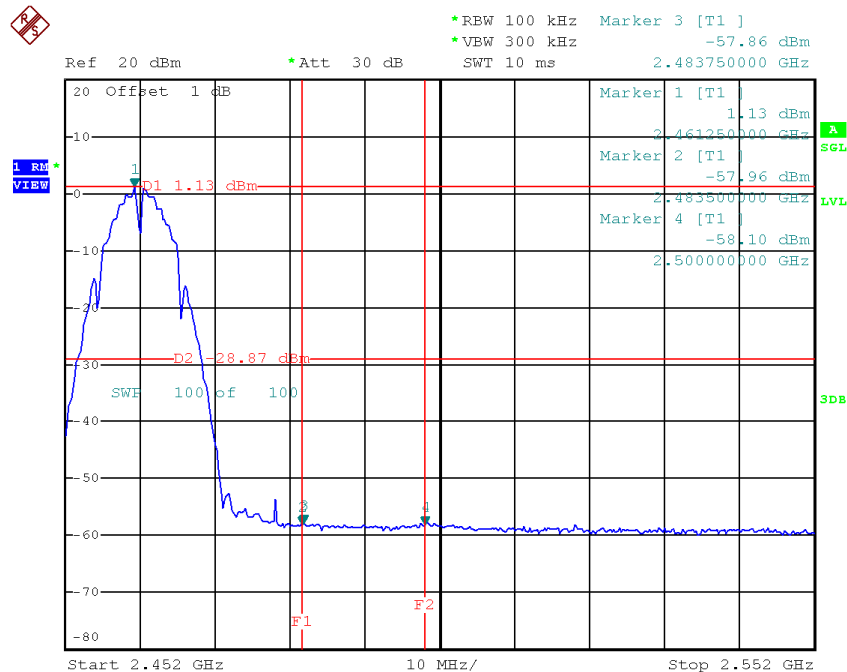
Test Mode :	TX B Mode_ANT 3
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TX B mode CH01



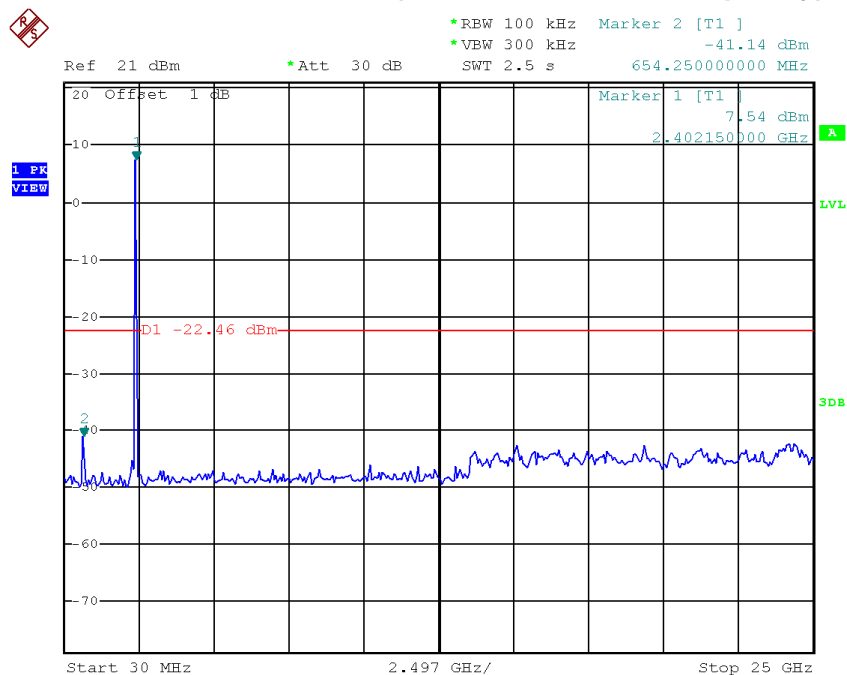
Date: 27.JAN.2015 17:10:08

TX B mode CH11



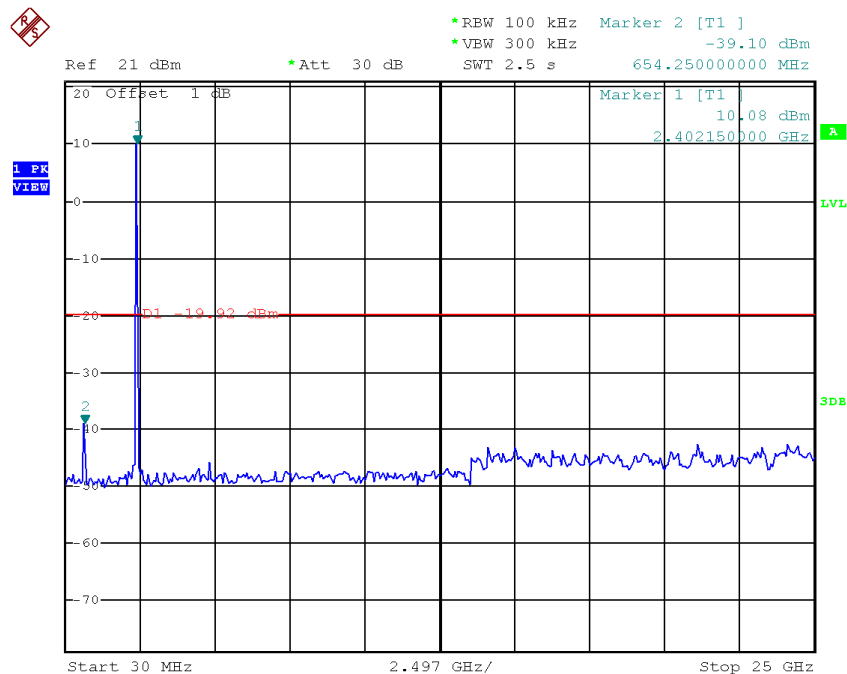
Date: 27.JAN.2015 17:16:00

TX B mode CH01 (10 Harmonic of the frequency)



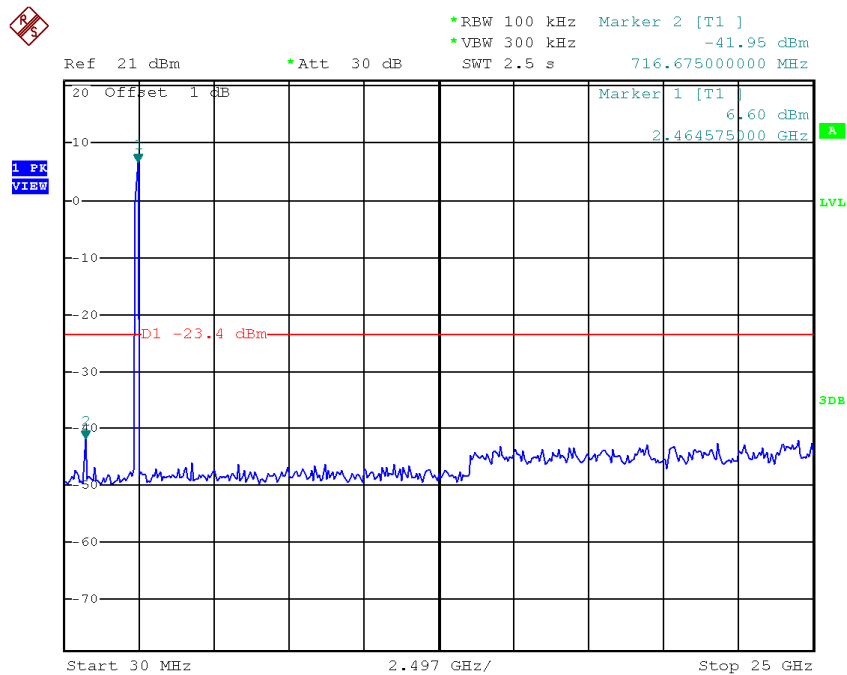
Date: 28.JAN.2015 00:29:40

TX B mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:03:57

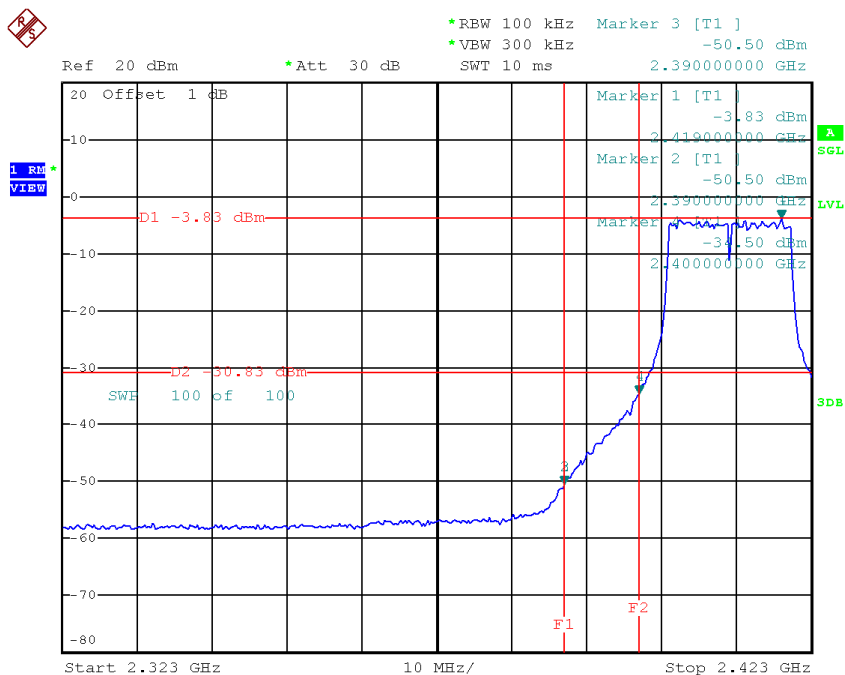
TX B mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 00:35:41

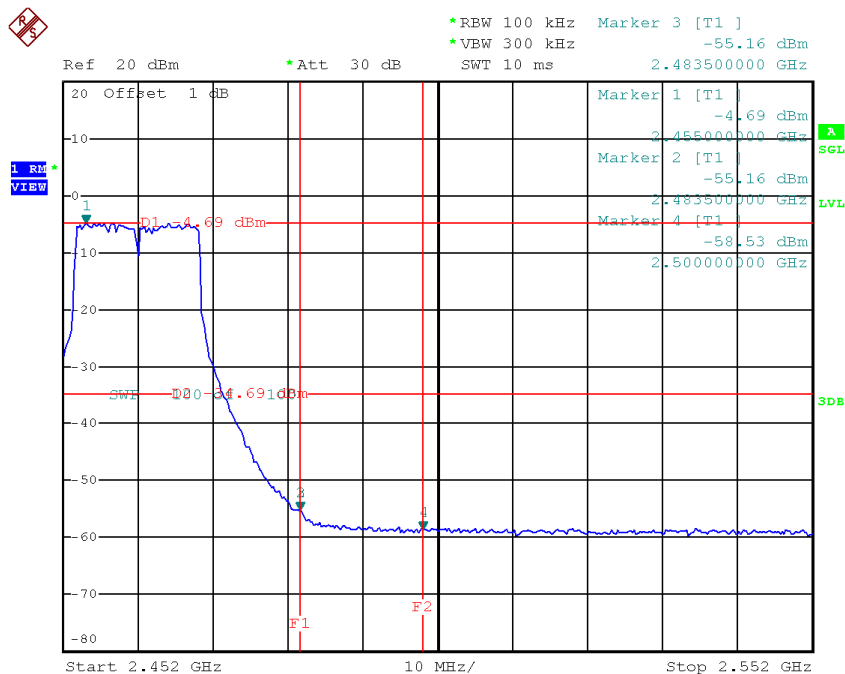
Test Mode :	TX G Mode_ANT 1
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TX G mode CH01



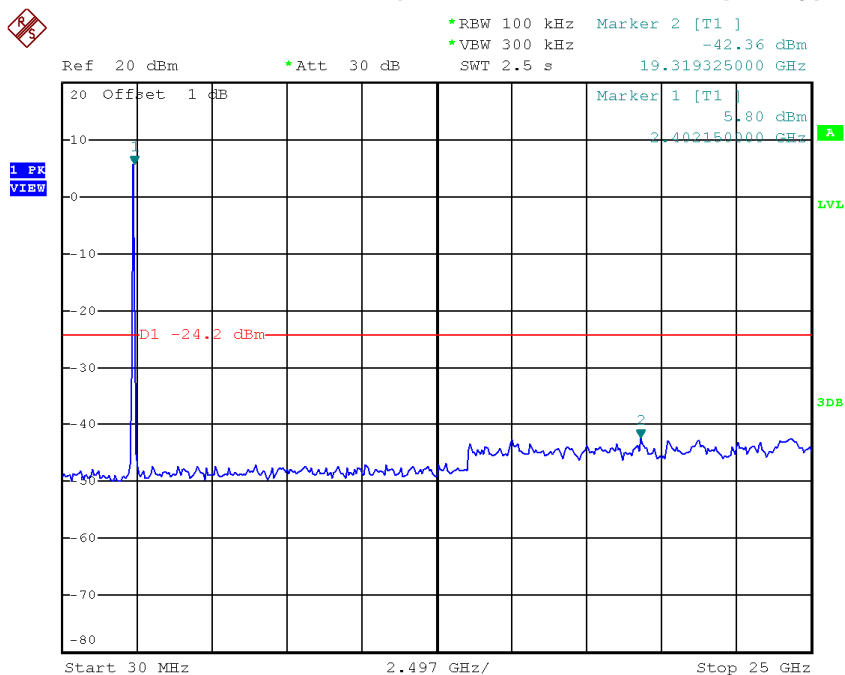
Date: 27.JAN.2015 15:23:19

TX G mode CH11



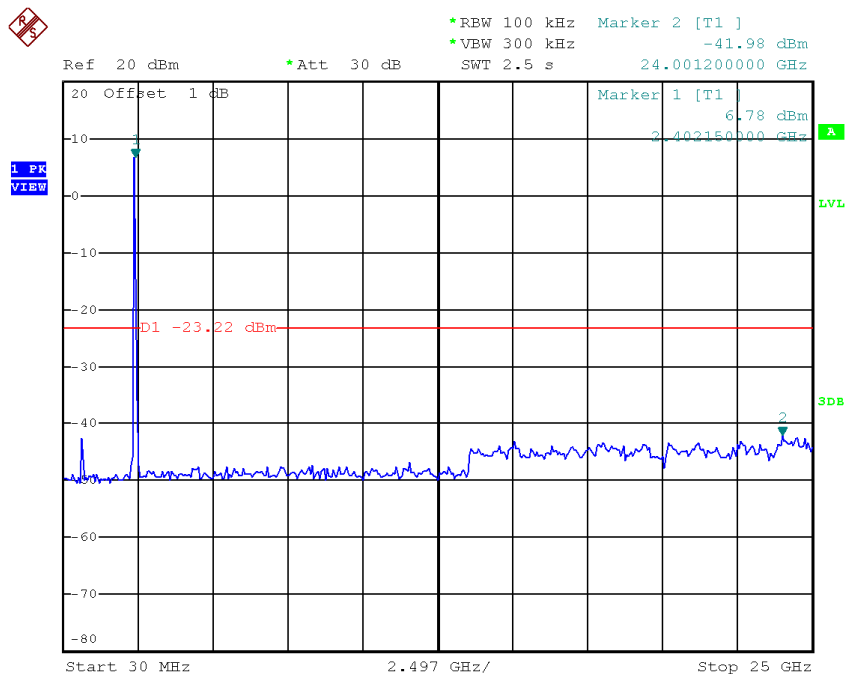
Date: 27.JAN.2015 15:30:54

TX G mode CH01 (10 Harmonic of the frequency)



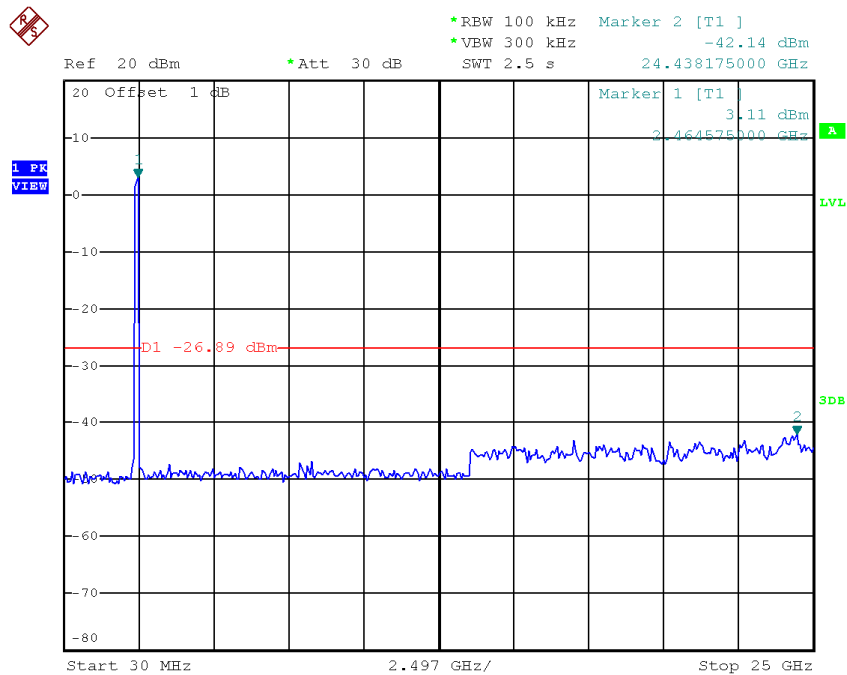
Date: 28.JAN.2015 01:10:58

TX G mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:14:31

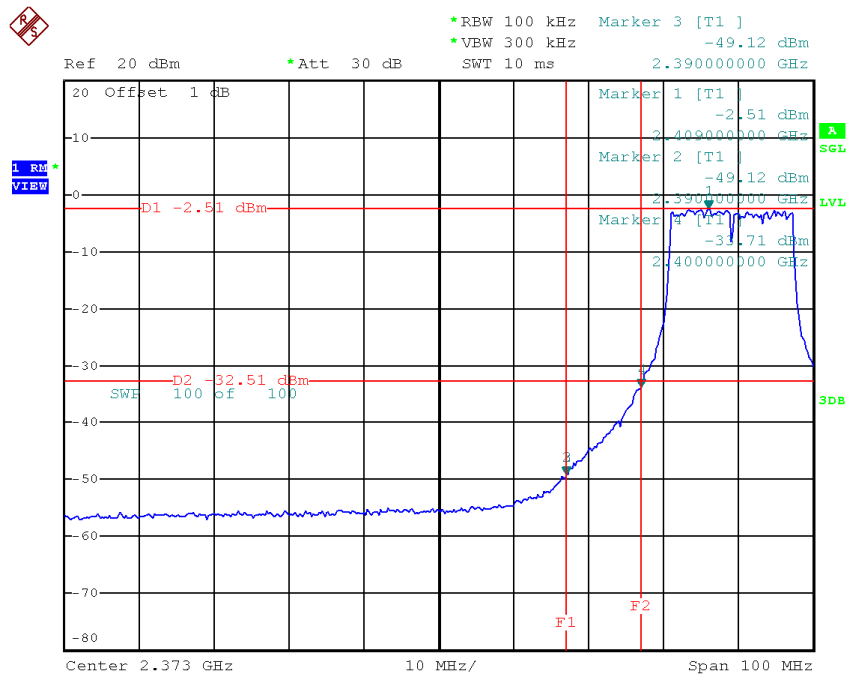
TX G mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:17:51

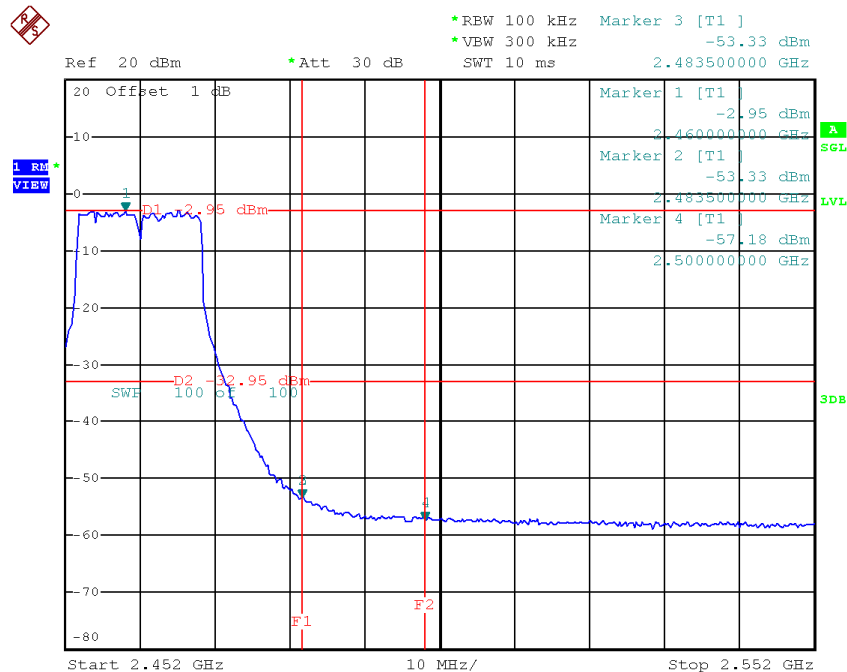
Test Mode :	TX G Mode_ANT 2
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TX G mode CH01



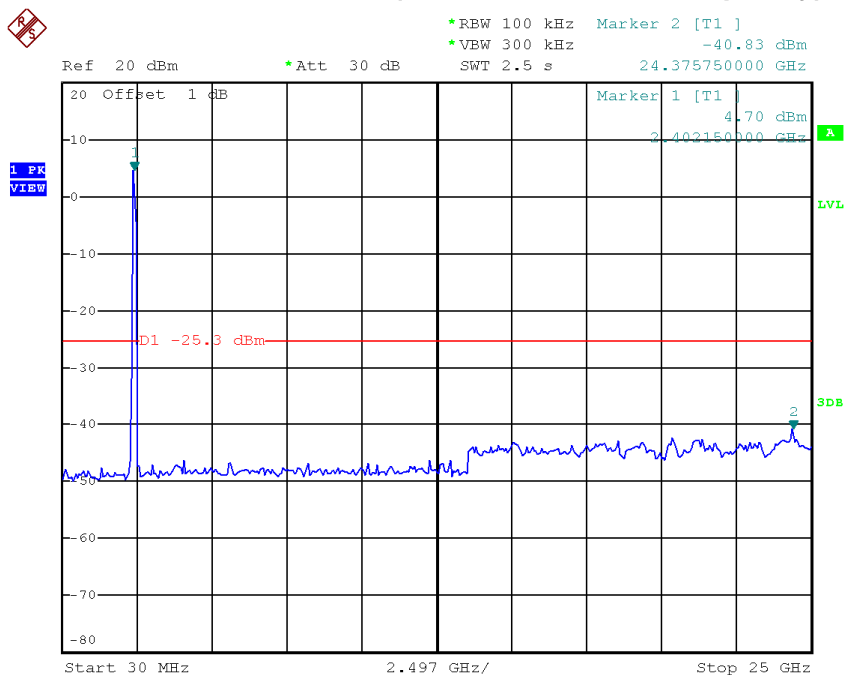
Date: 27.JAN.2015 14:31:36

TX G mode CH11



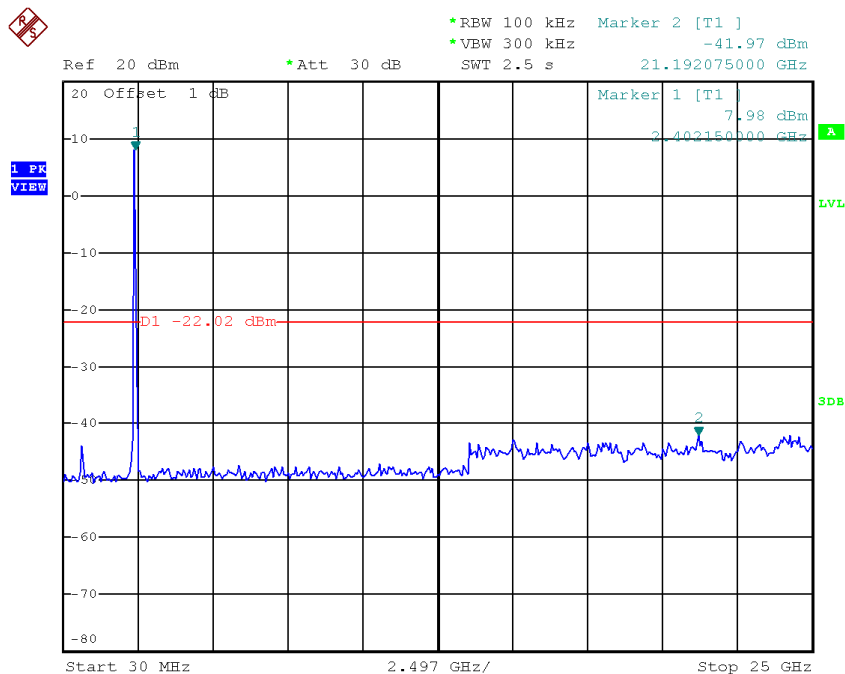
Date: 27.JAN.2015 14:47:39

TX G mode CH01 (10 Harmonic of the frequency)



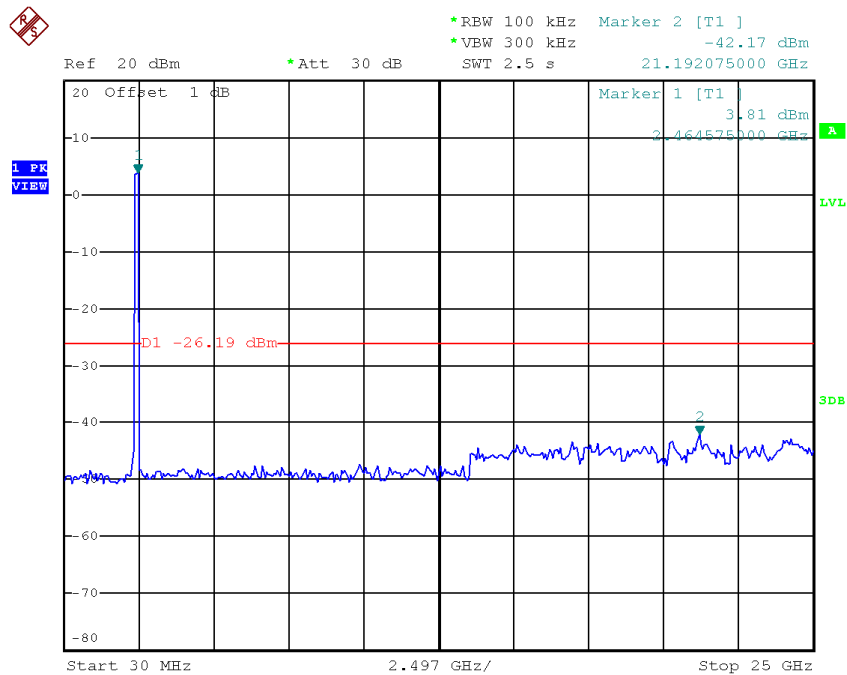
Date: 28.JAN.2015 01:42:41

TX G mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:43:12

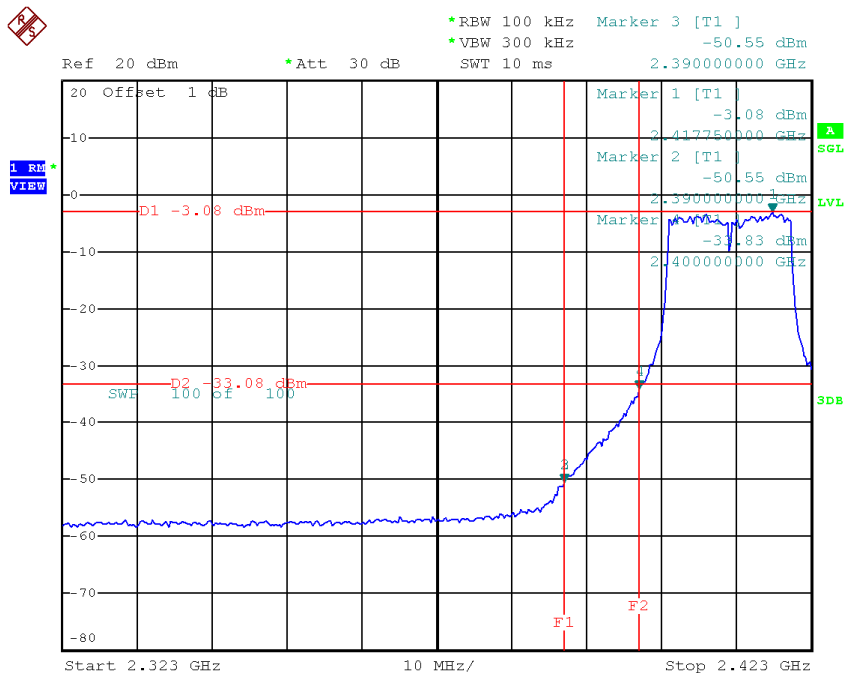
TX G mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:43:51

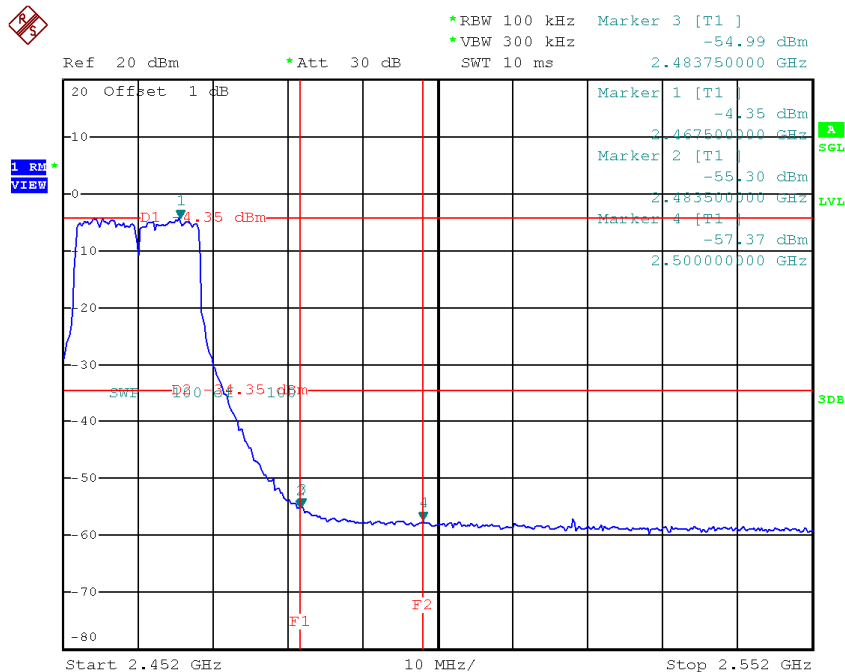
Test Mode :	TX G Mode_ANT 3
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TX G mode CH01



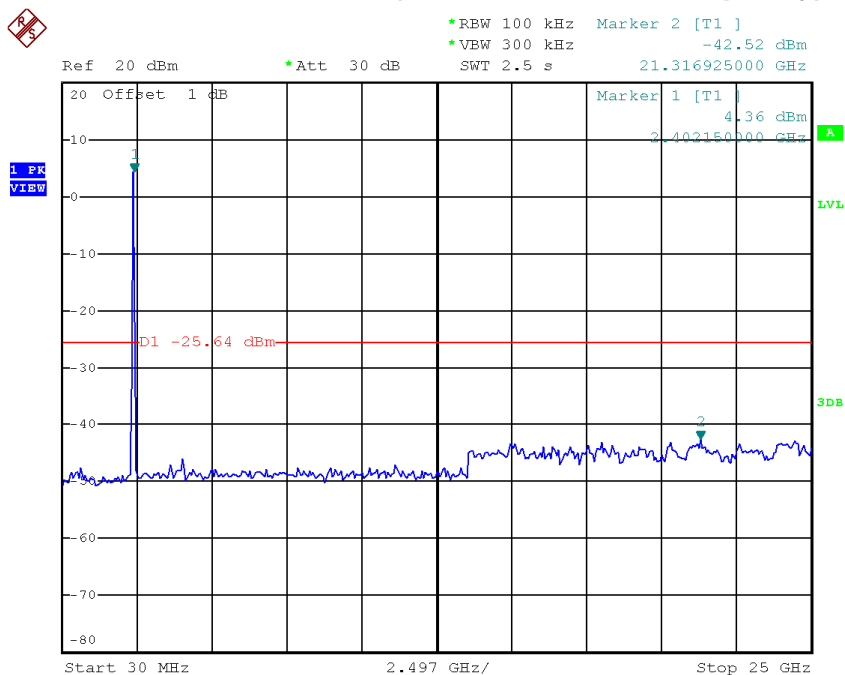
Date: 27.JAN.2015 17:25:59

TX G mode CH11



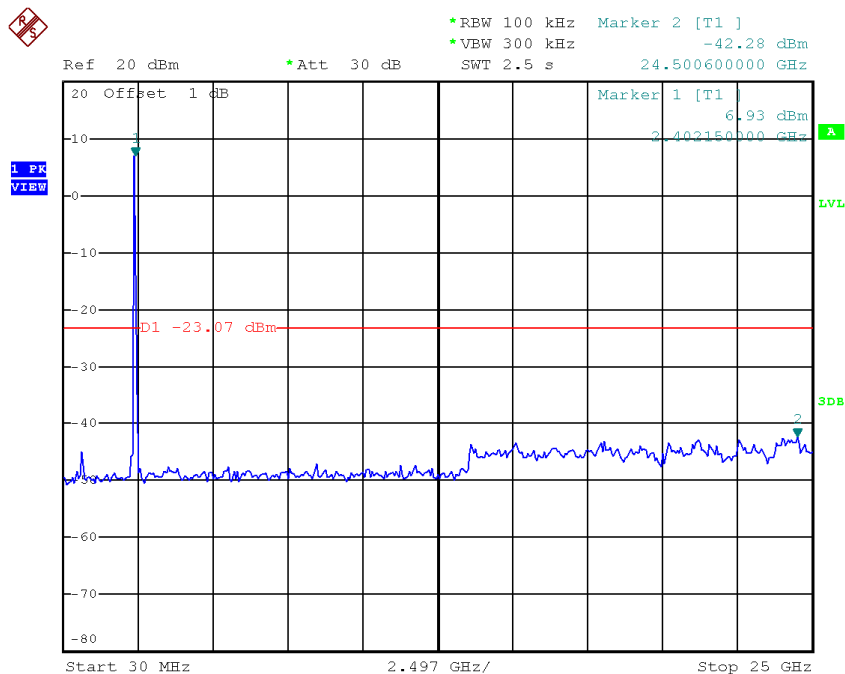
Date: 27.JAN.2015 17:35:43

TX G mode CH01 (10 Harmonic of the frequency)



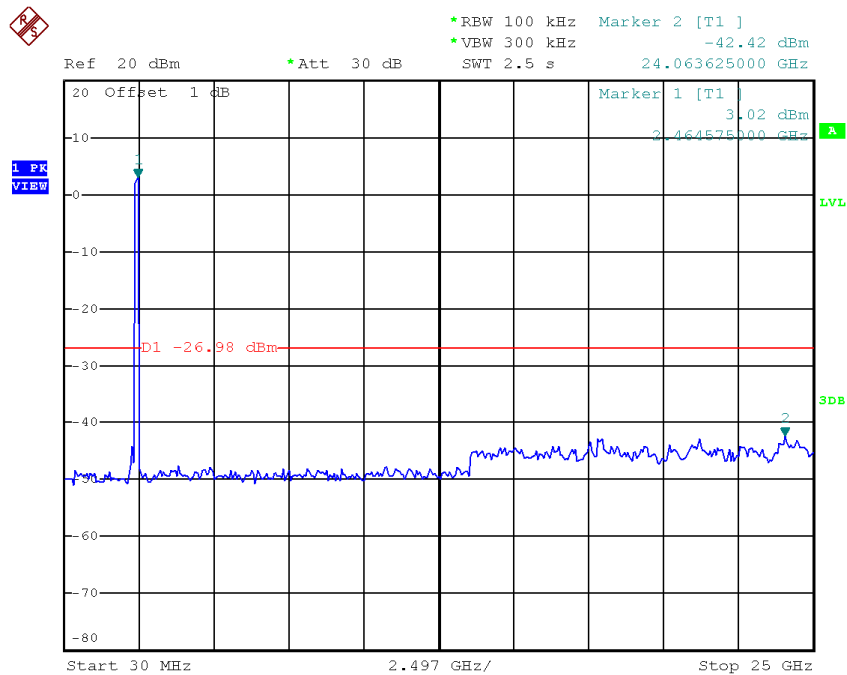
Date: 28.JAN.2015 01:12:22

TX G mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:15:07

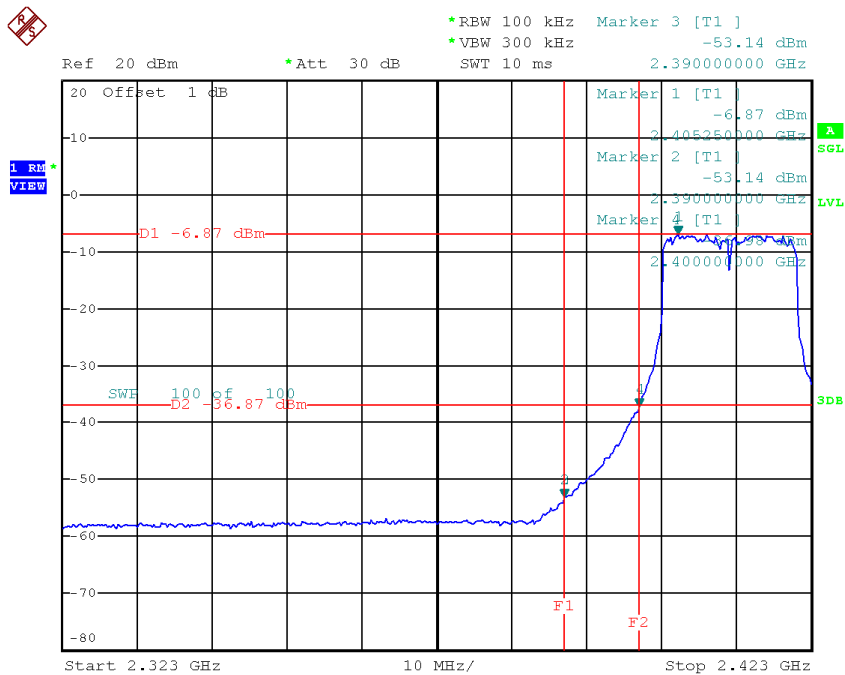
TX G mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:18:36

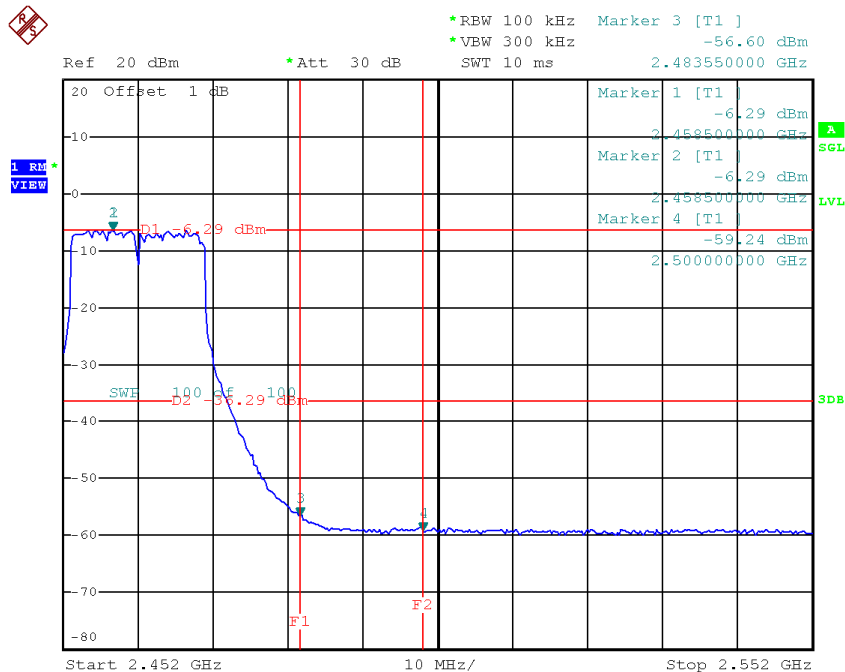
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01



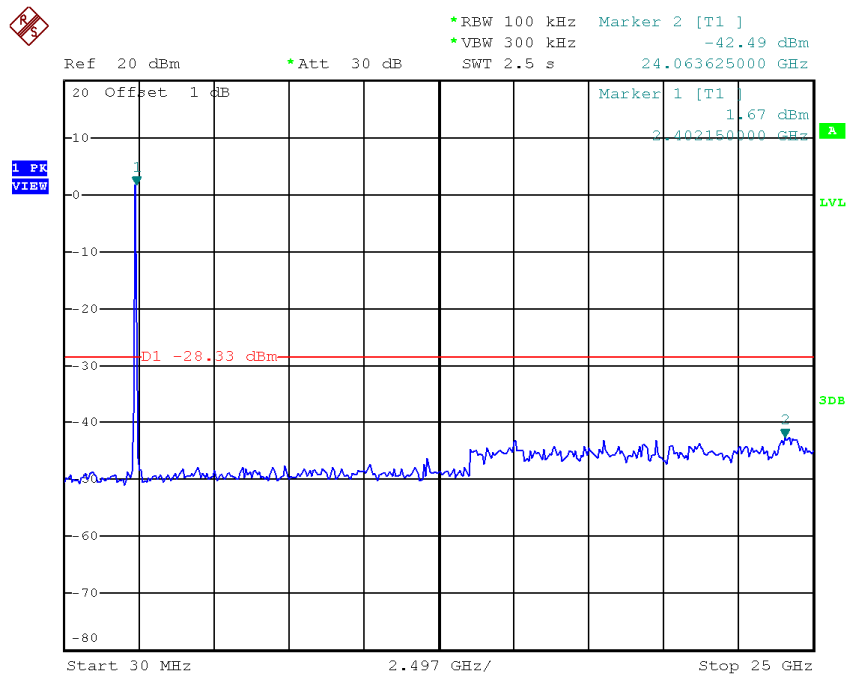
Date: 27.JAN.2015 15:36:39

TX HT20 mode CH11



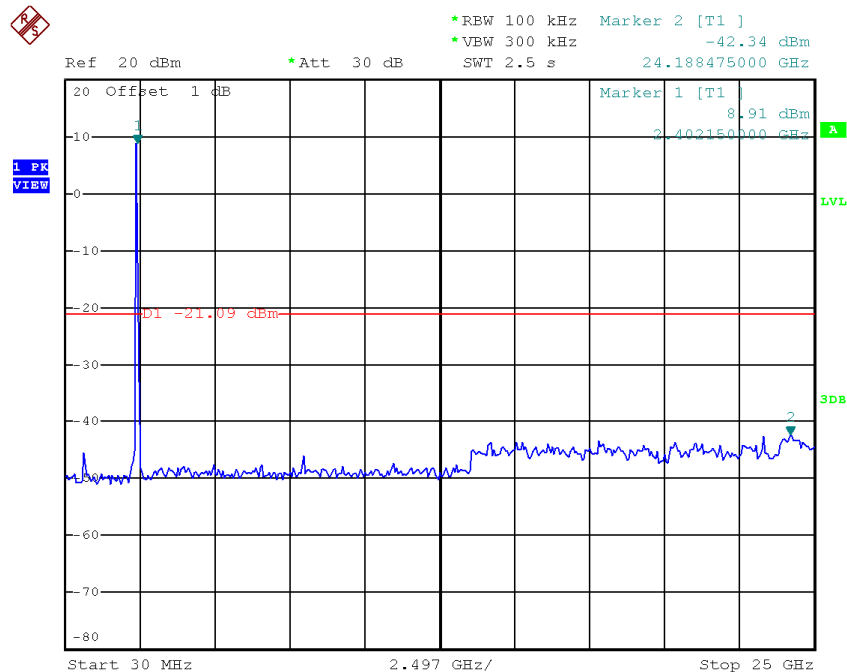
Date: 27.JAN.2015 16:29:10

TX HT20 mode CH01 (10 Harmonic of the frequency)



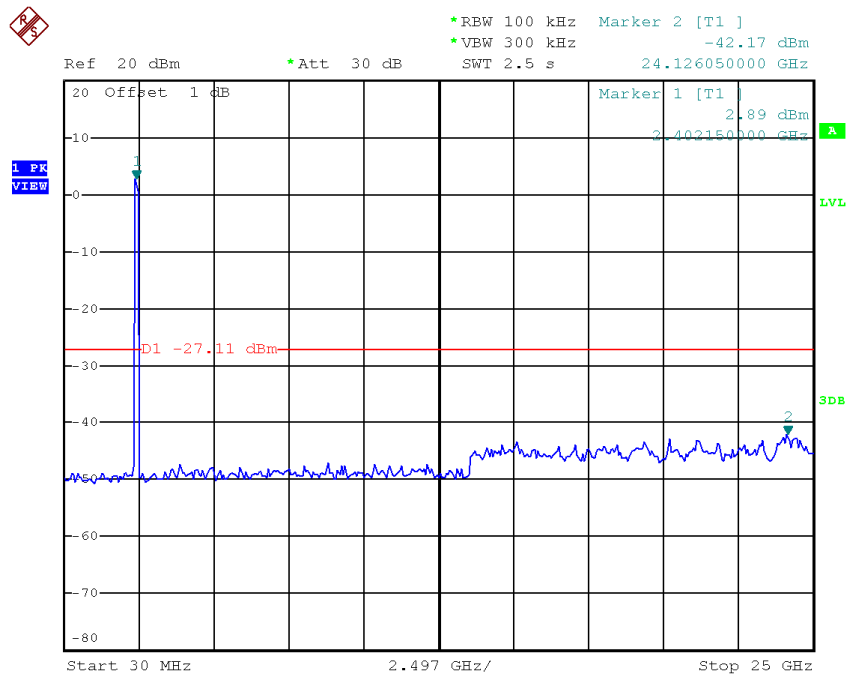
Date: 28.JAN.2015 01:20:28

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:22:04

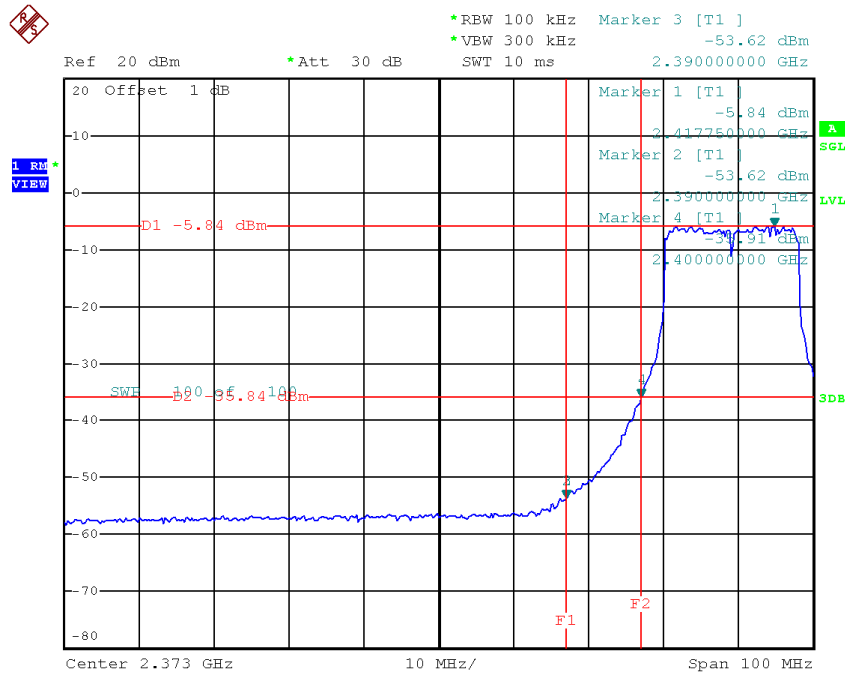
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:24:50

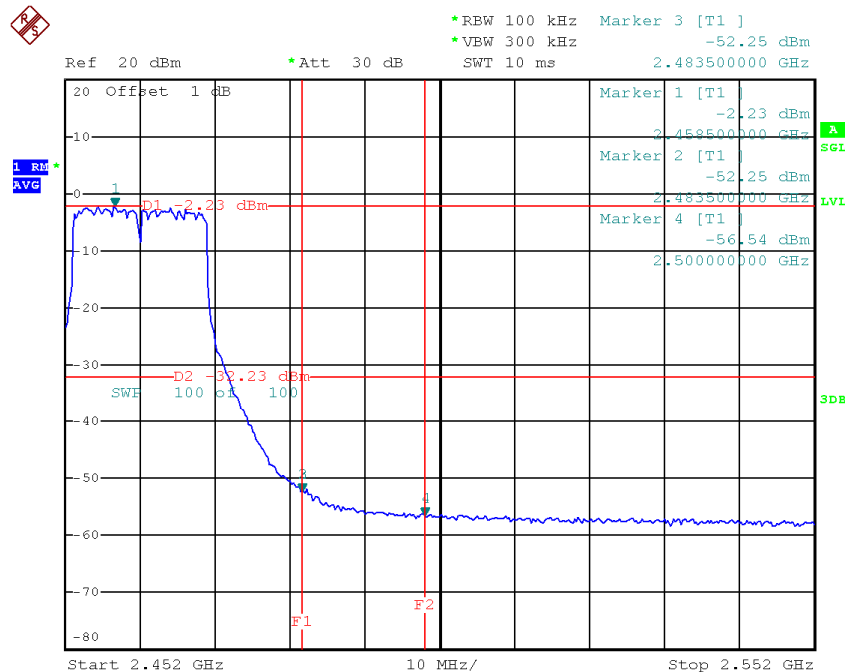
Test Mode :	TX N-20M Mode_ANT 2
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TX HT20 mode CH01



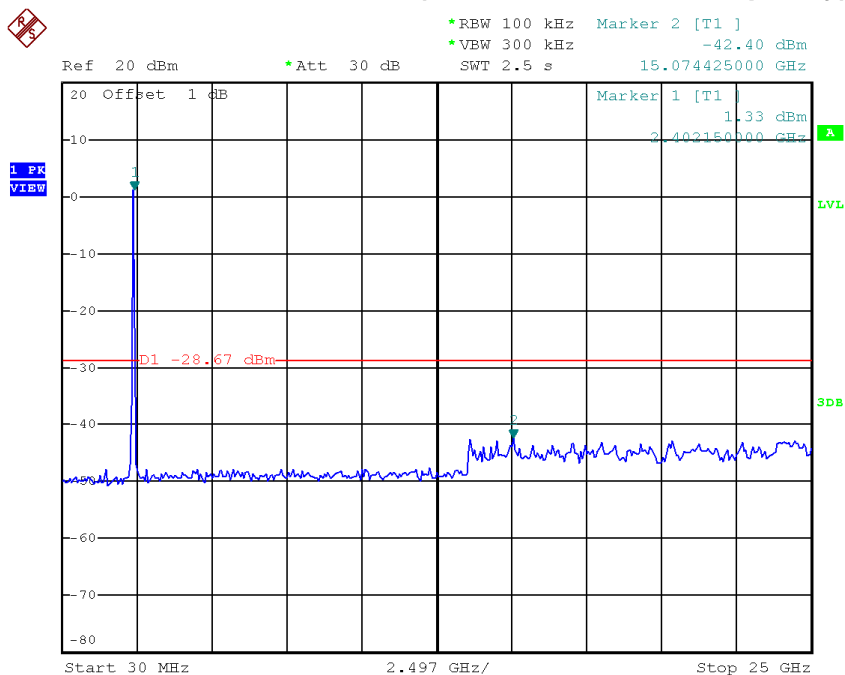
Date: 27.JAN.2015 14:42:20

TX HT20 mode CH11



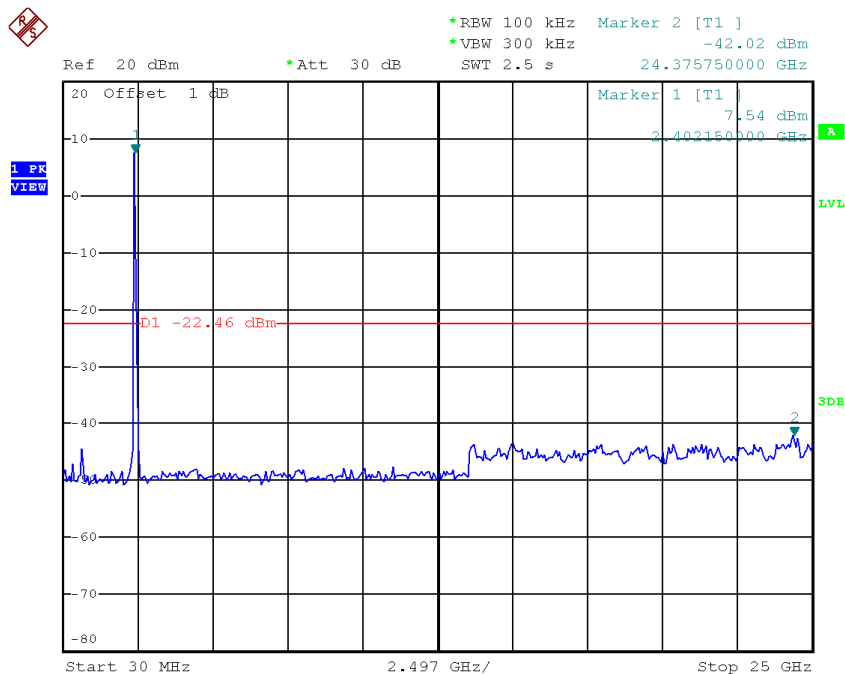
Date: 22.JAN.2015 18:45:30

TX HT20 mode CH01 (10 Harmonic of the frequency)



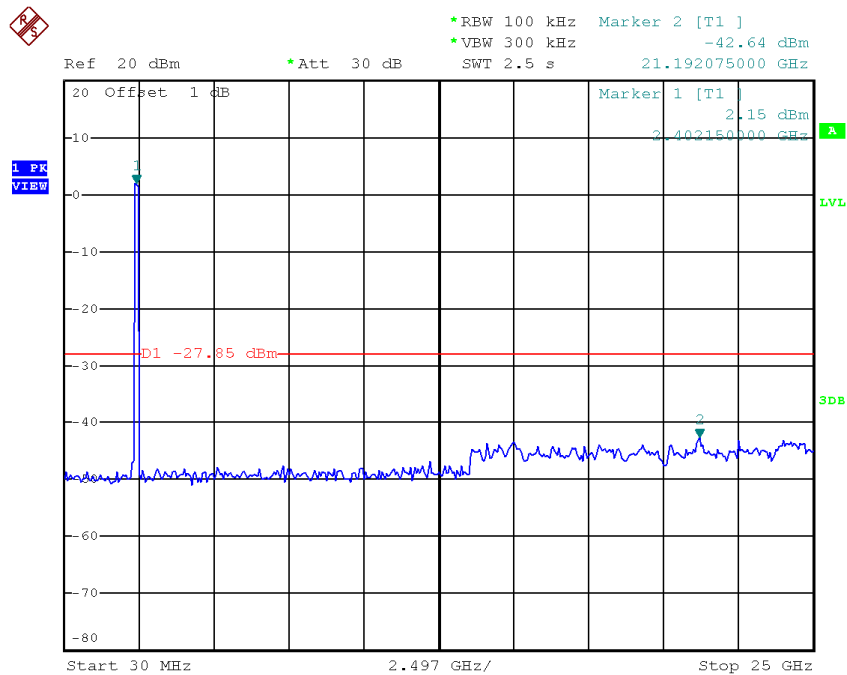
Date: 28.JAN.2015 01:44:31

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:45:18

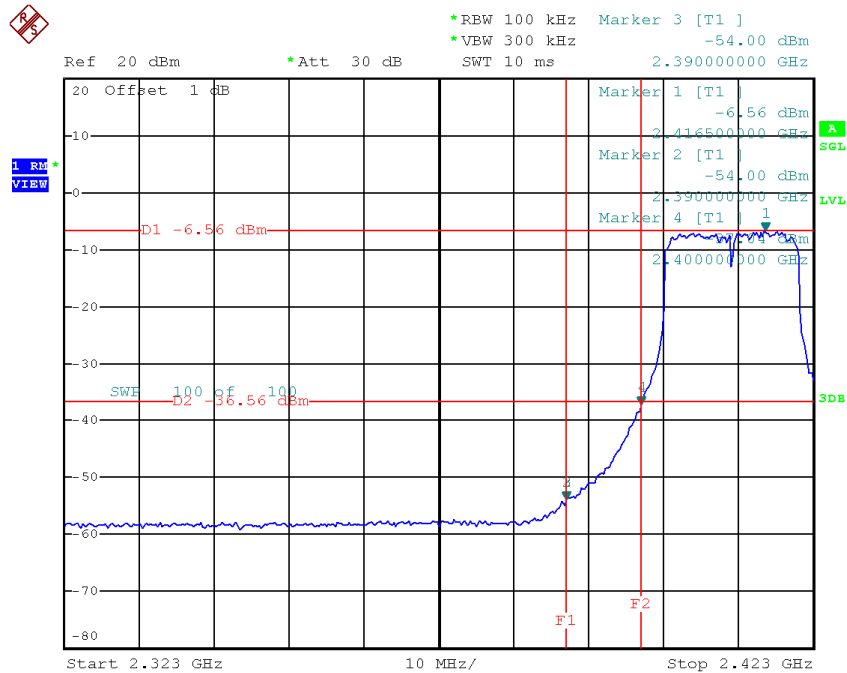
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:45:59

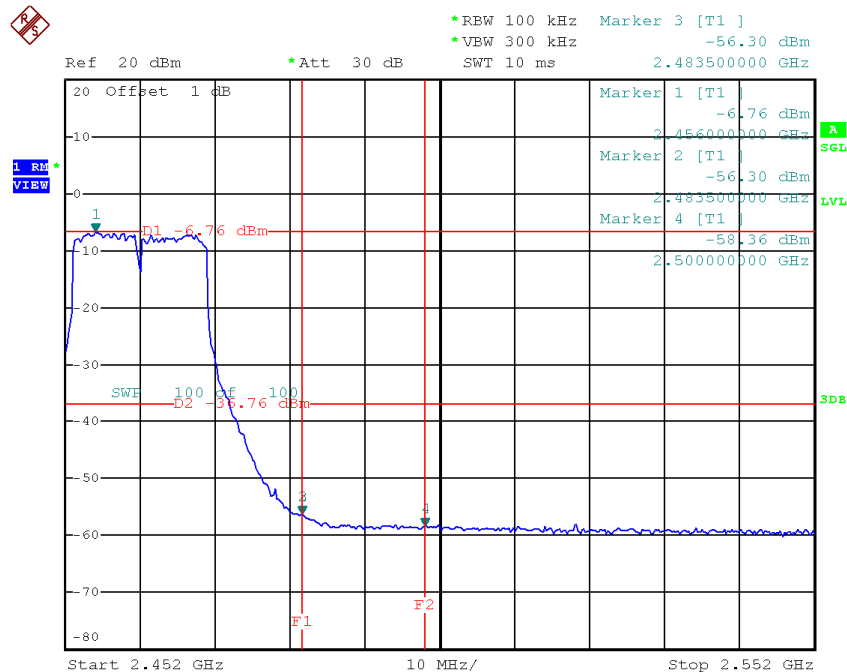
Test Mode :	TX N-20M Mode_ANT 3
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TX HT20 mode CH01



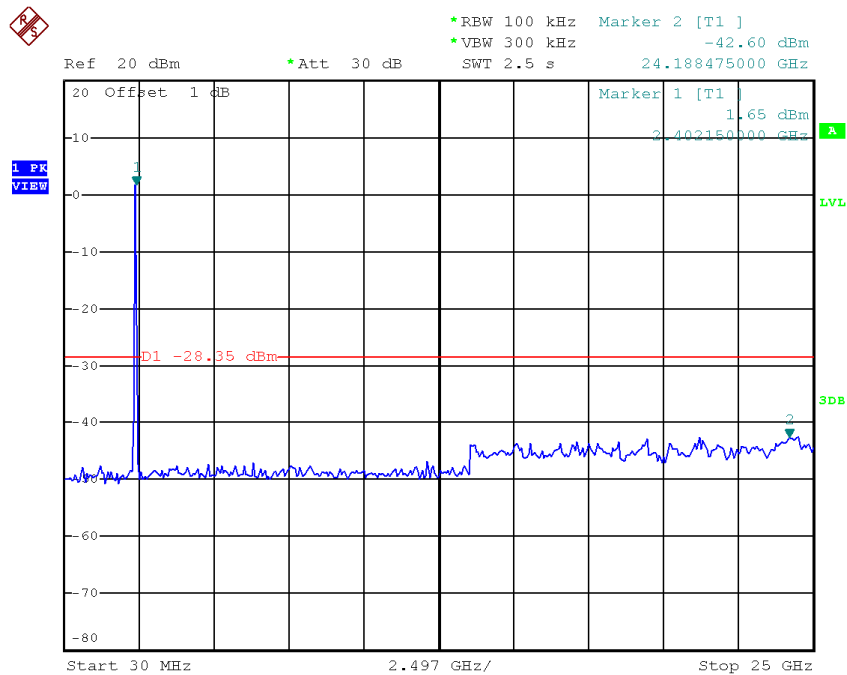
Date: 27.JAN.2015 17:42:19

TX HT20 mode CH11



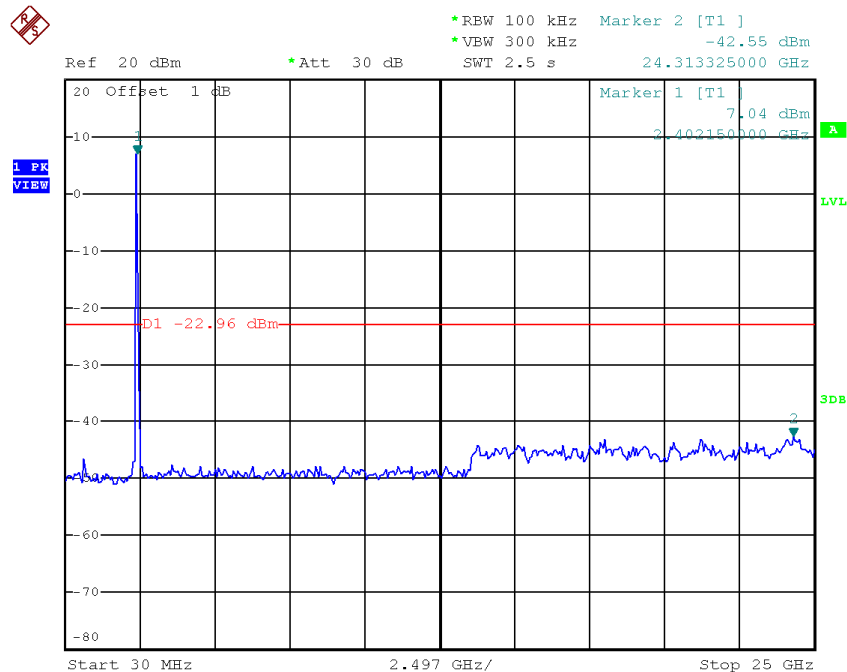
Date: 27.JAN.2015 17:47:35

TX HT20 mode CH01 (10 Harmonic of the frequency)



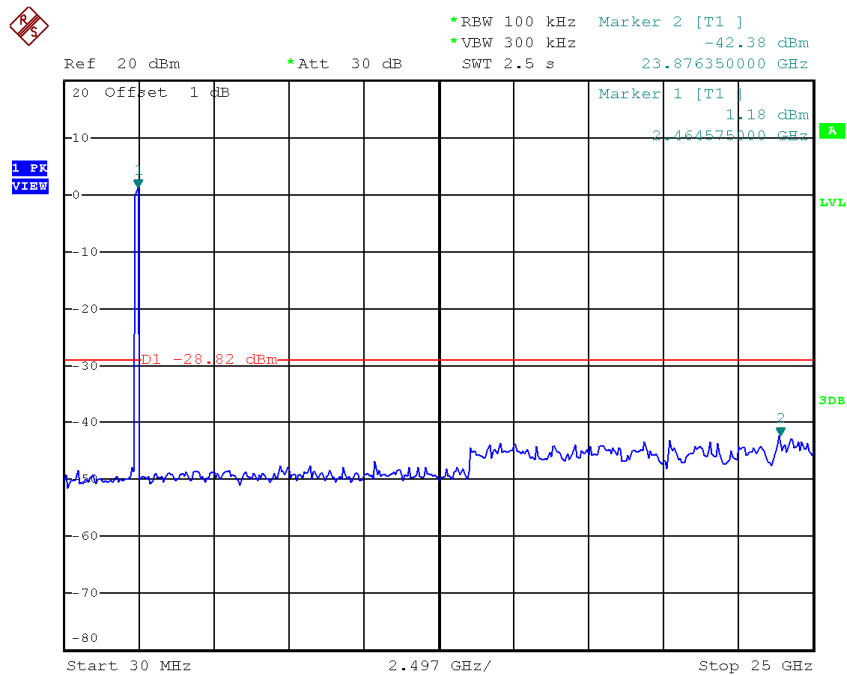
Date: 28.JAN.2015 01:20:59

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:23:23

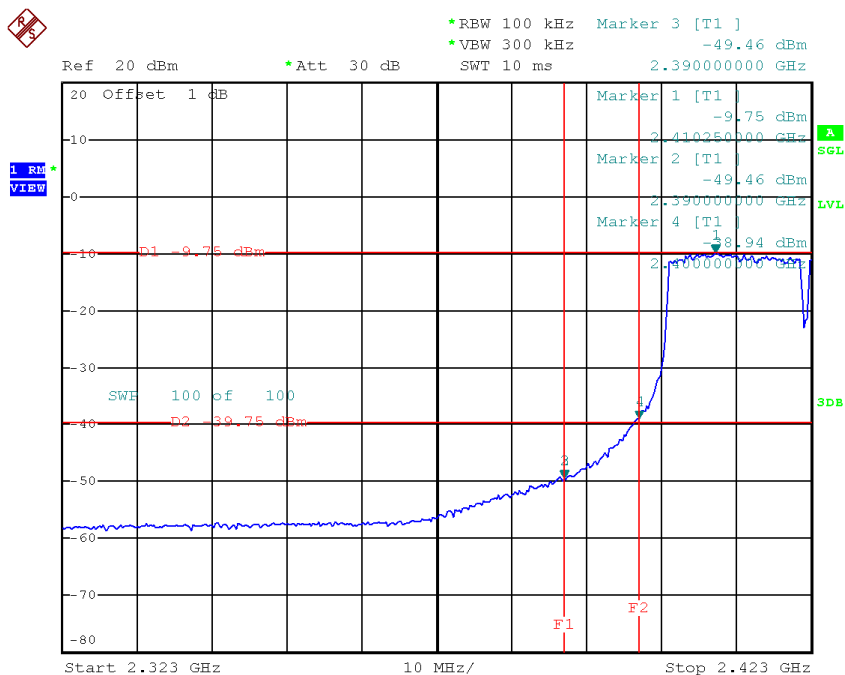
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:28:19

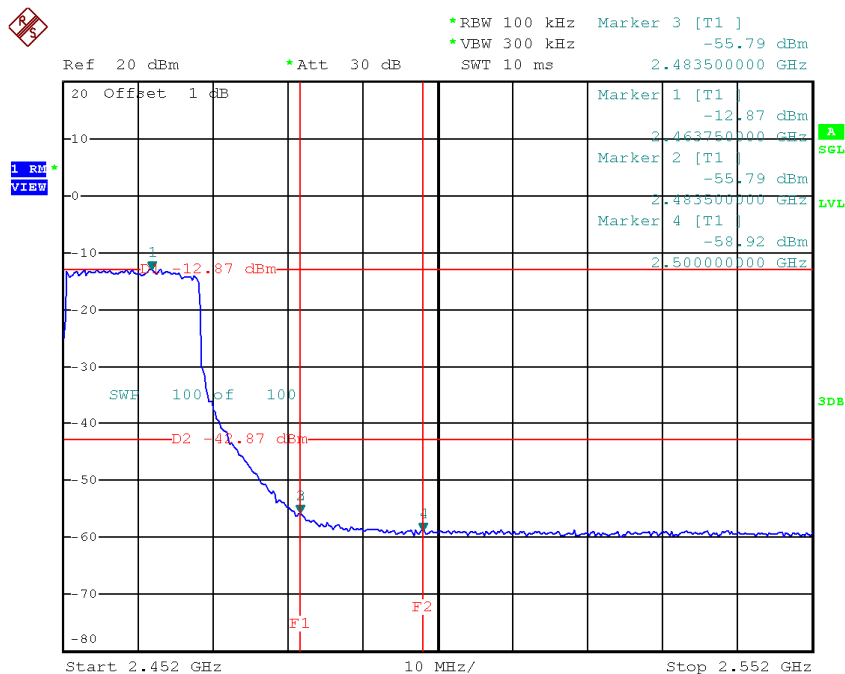
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



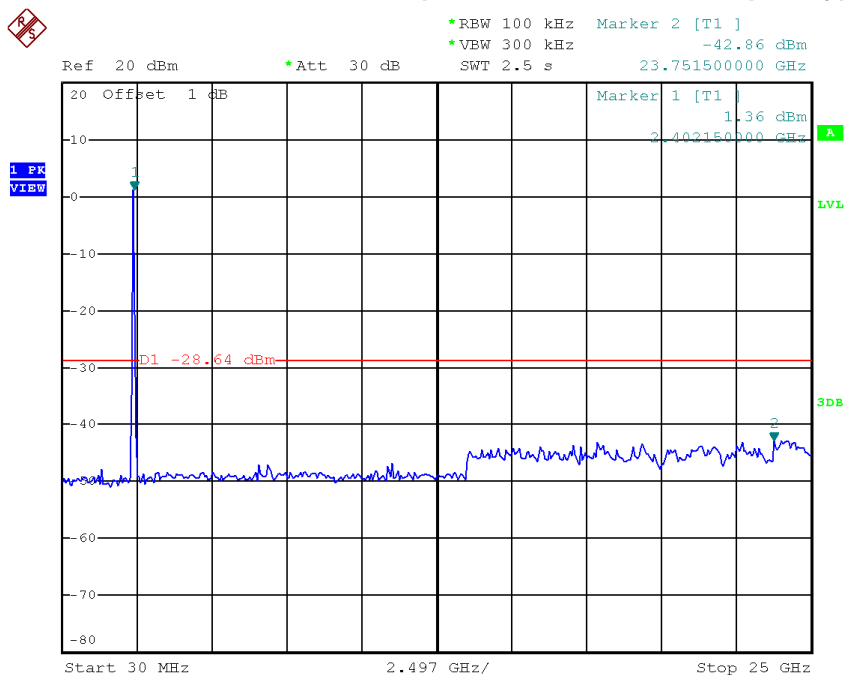
Date: 27.JAN.2015 16:35:08

TX HT40 mode CH09



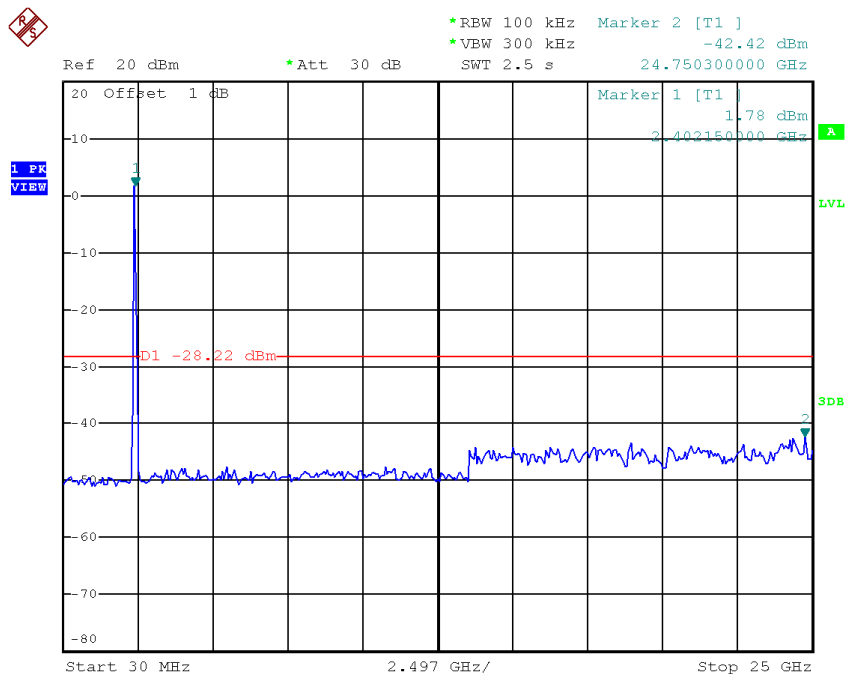
Date: 27.JAN.2015 16:51:38

TX HT40 mode CH03 (10 Harmonic of the frequency)



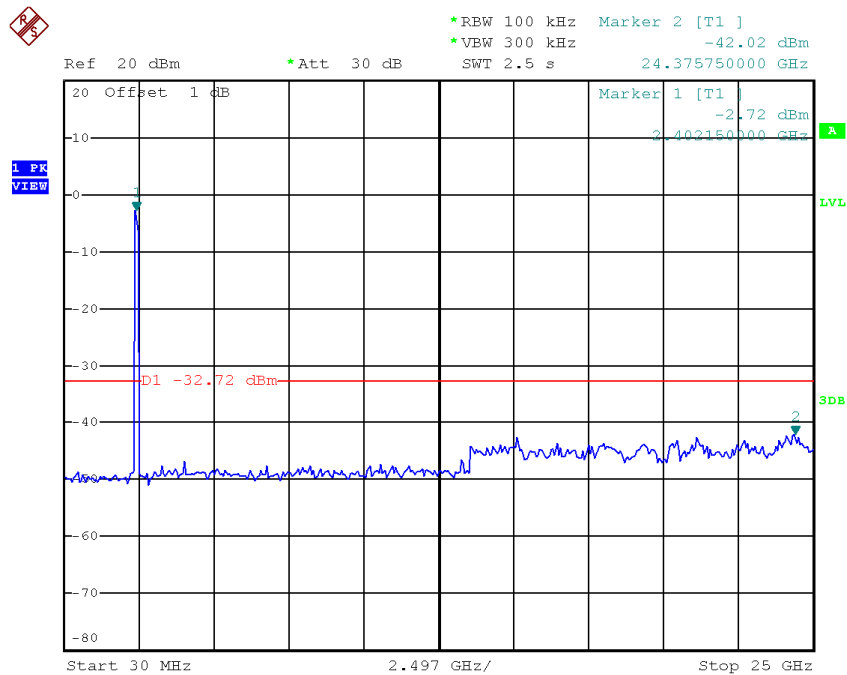
Date: 28.JAN.2015 01:30:09

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:32:30

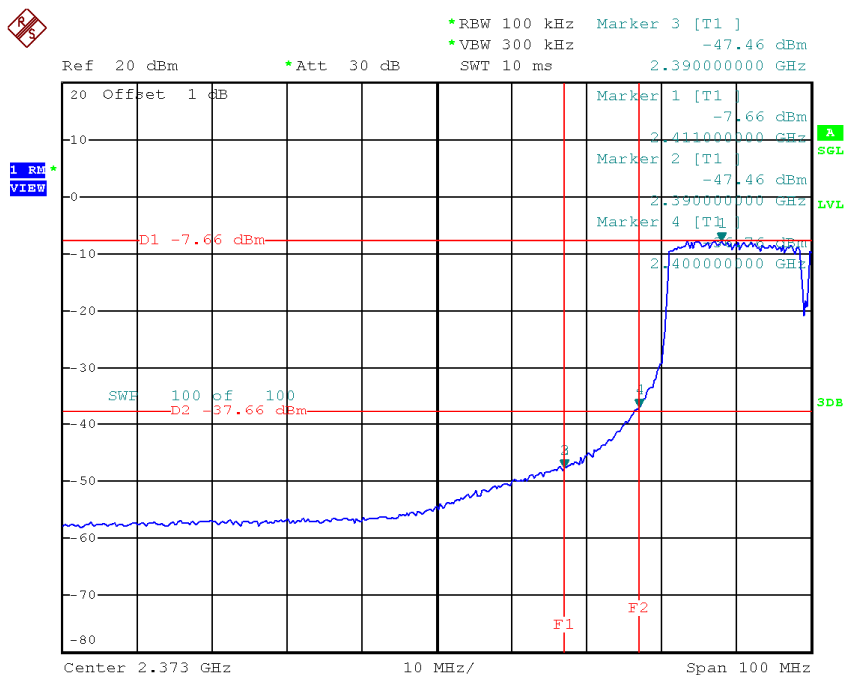
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:34:44

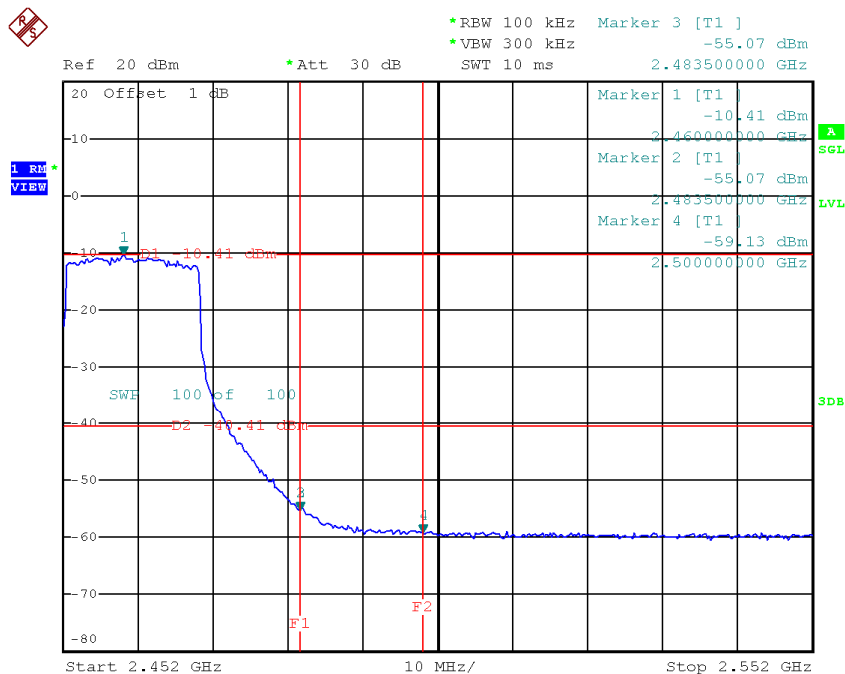
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH03



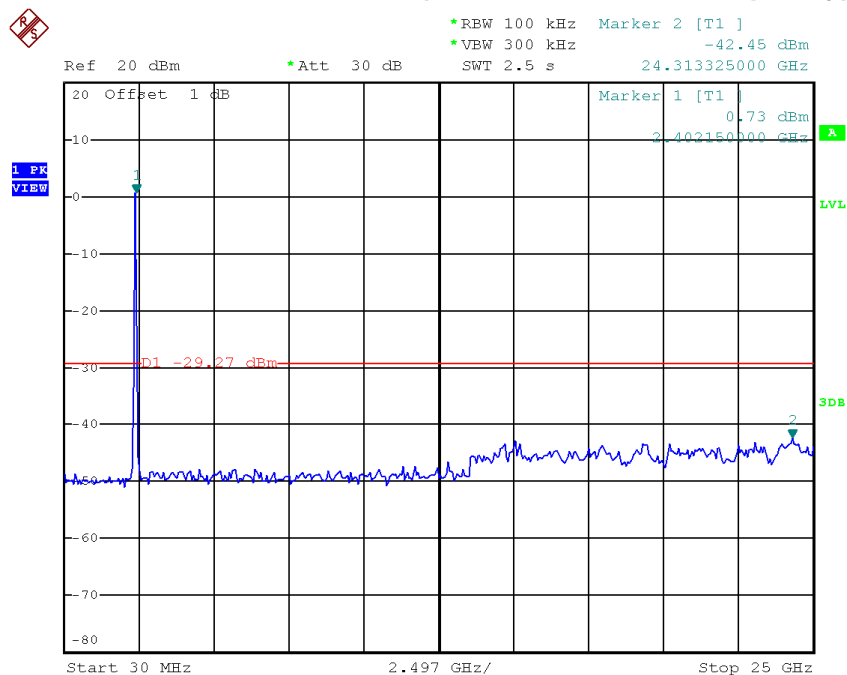
Date: 27.JAN.2015 14:43:58

TX HT40 mode CH09



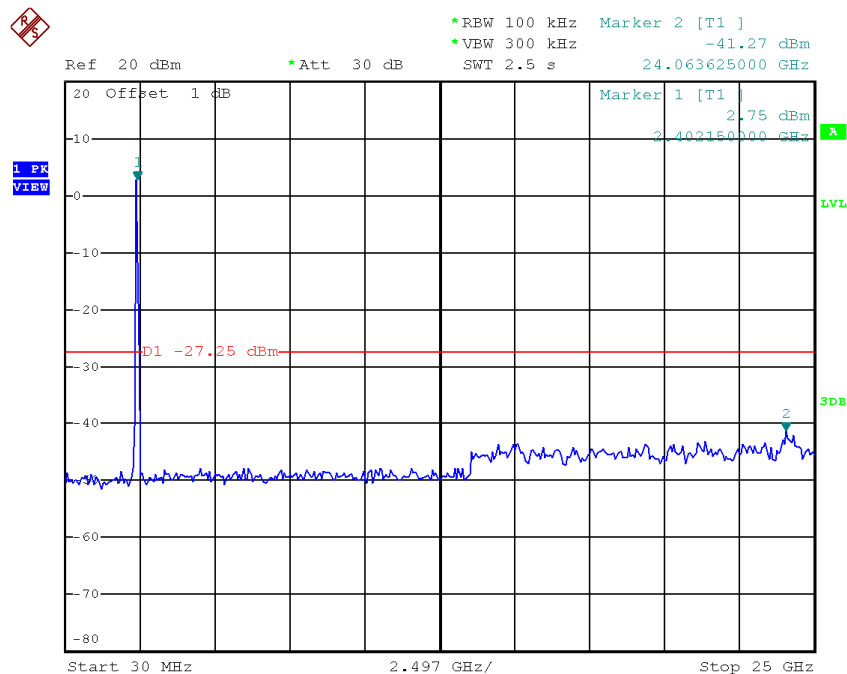
Date: 22.JAN.2015 20:00:20

TX HT40 mode CH03 (10 Harmonic of the frequency)



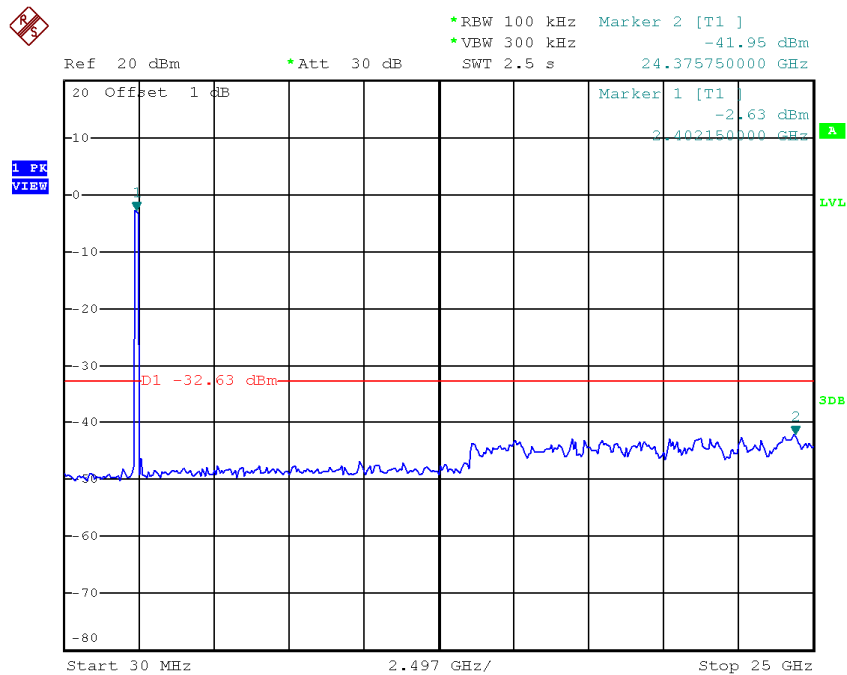
Date: 28.JAN.2015 01:46:42

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:47:24

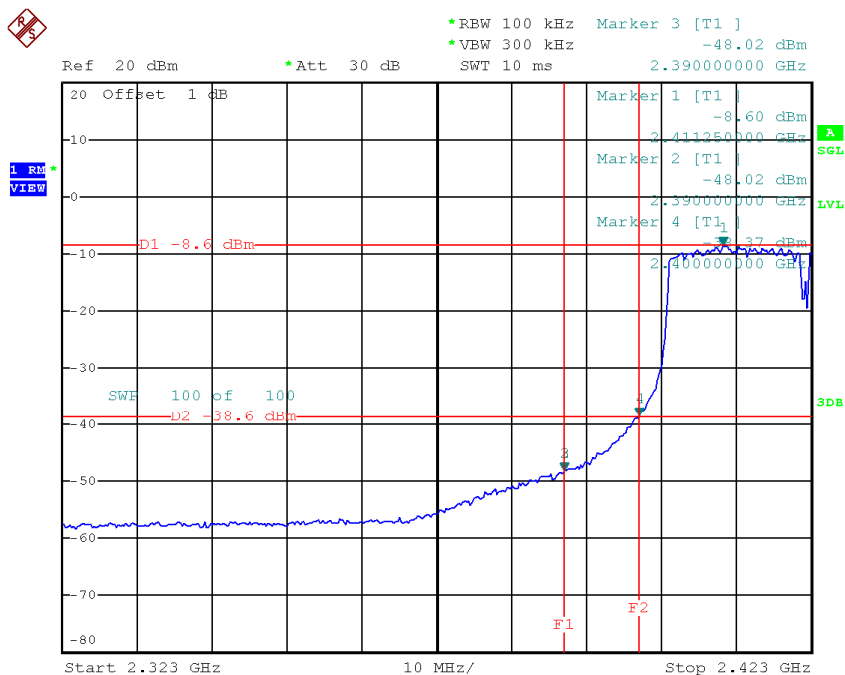
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:39:06

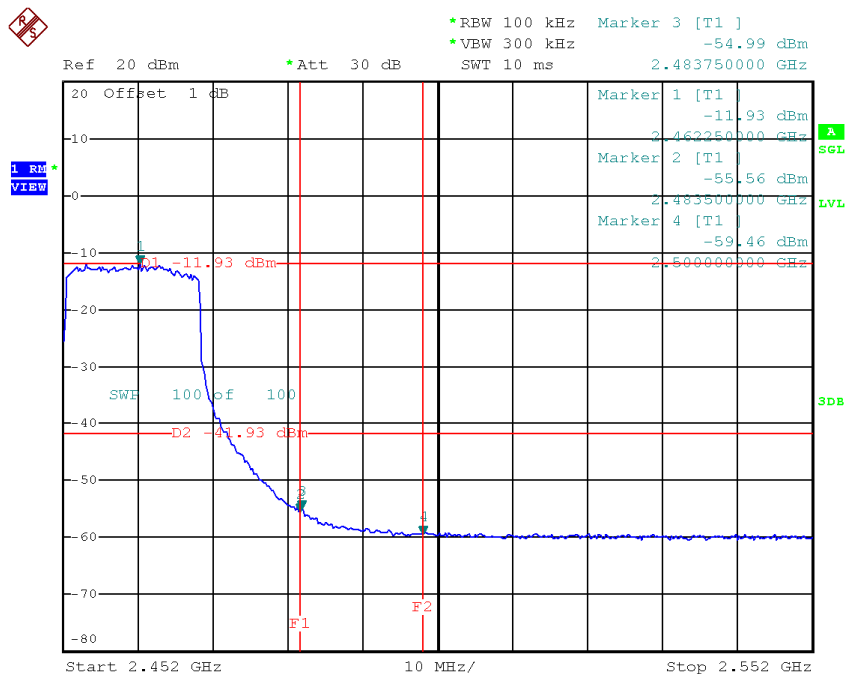
Test Mode :	TX N-40M Mode_ANT 3
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TX HT40 mode CH03



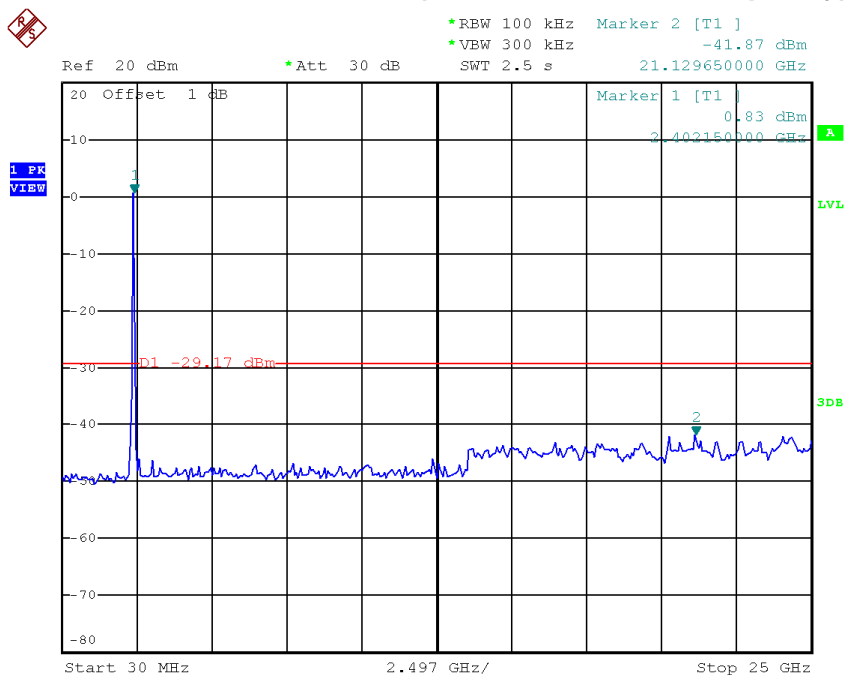
Date: 27.JAN.2015 17:50:14

TX HT40 mode CH09



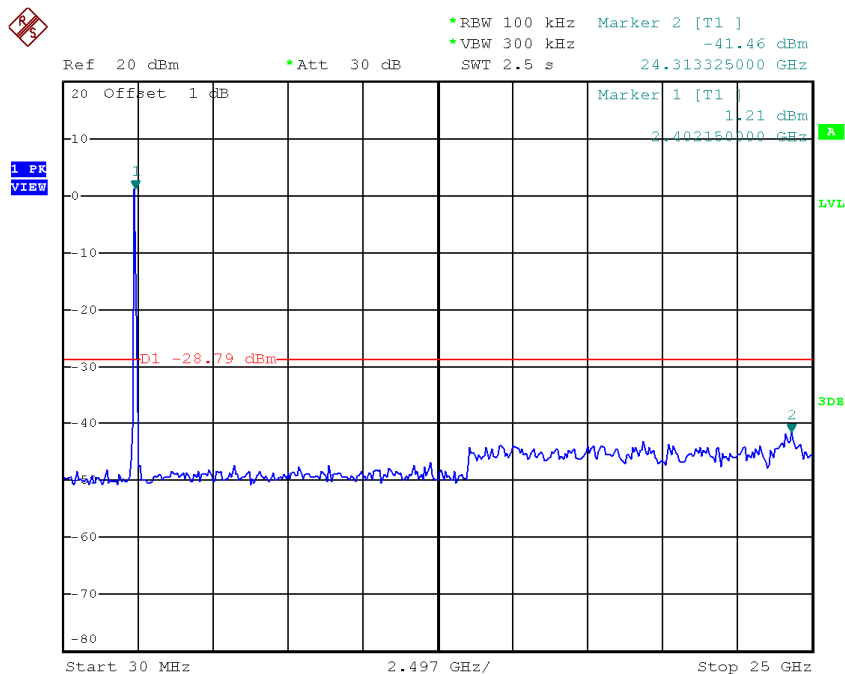
Date: 27.JAN.2015 17:55:41

TX HT40 mode CH03 (10 Harmonic of the frequency)



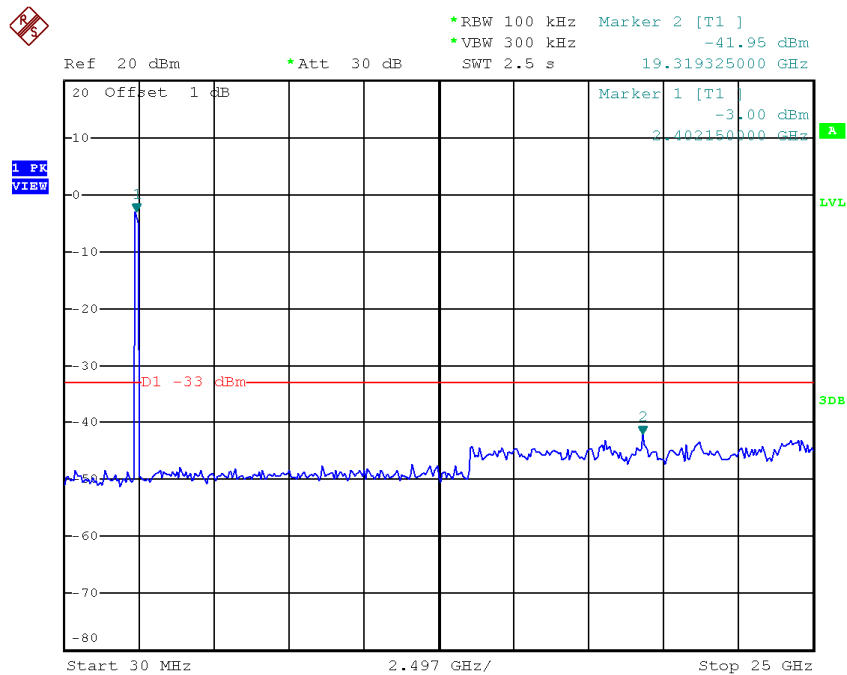
Date: 28.JAN.2015 01:31:38

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 28.JAN.2015 01:33:32

TX HT40 mode CH09 (10 Harmonic of the frequency)



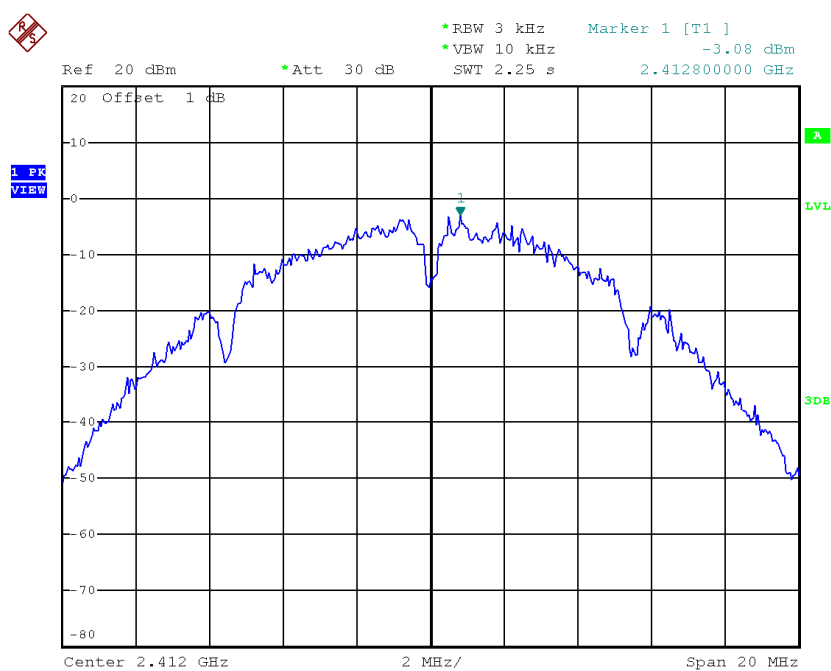
Date: 28.JAN.2015 01:35:09

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11_ANT 1

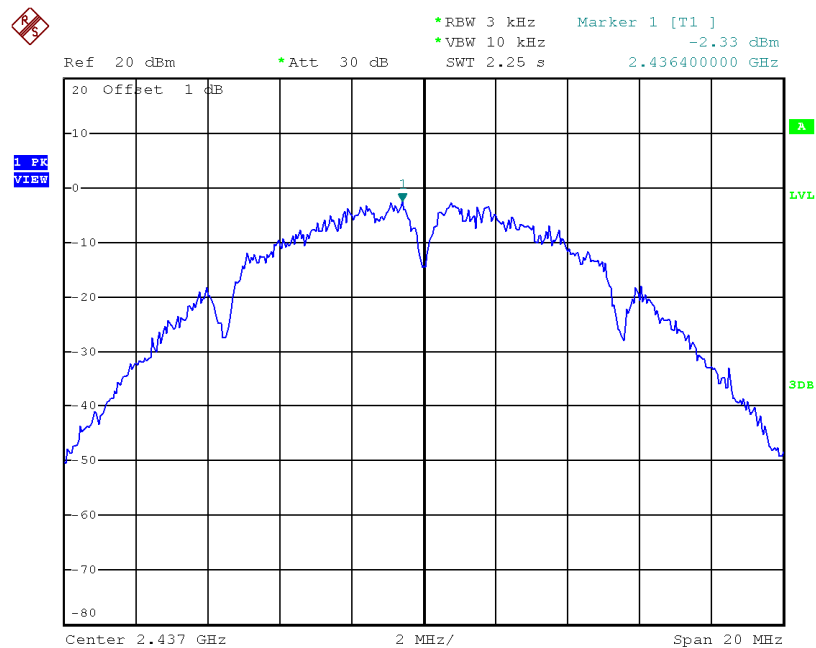
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-3.08	0.49	8.00	Complies
2437	-2.33	0.58	8.00	Complies
2462	-4.30	0.37	8.00	Complies

TX CH01



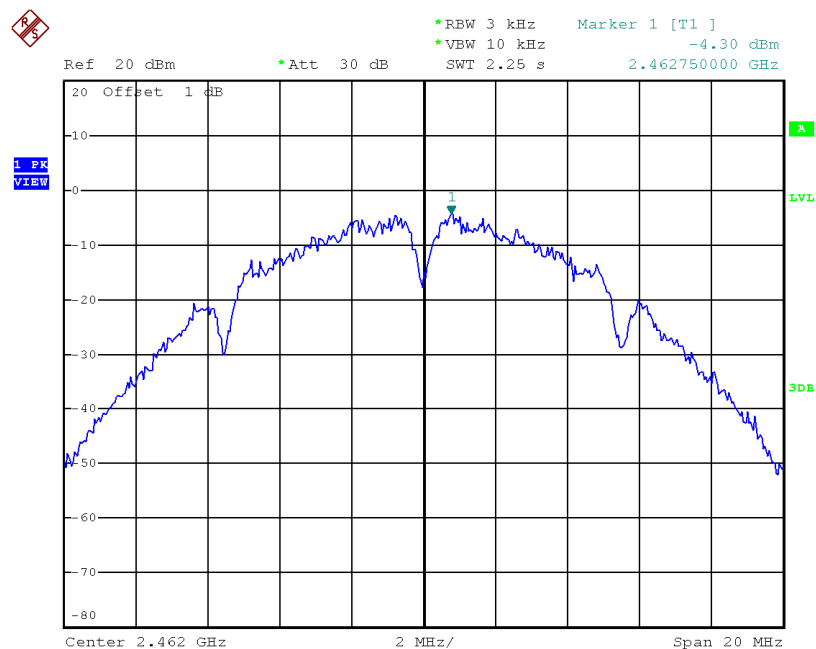
Date: 28.JAN.2015 17:57:43

TX CH06



Date: 28.JAN.2015 17:59:49

TX CH11

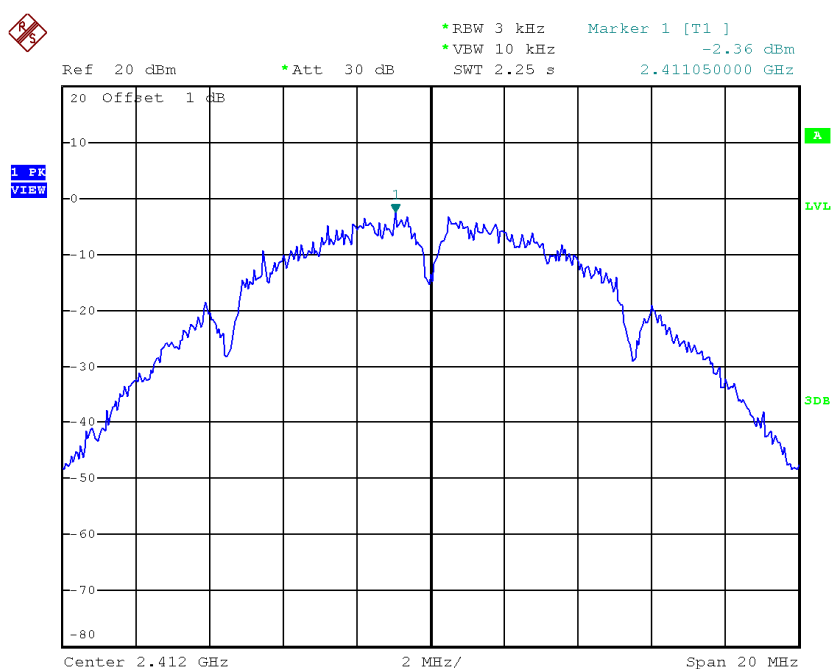


Date: 28.JAN.2015 18:01:38

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

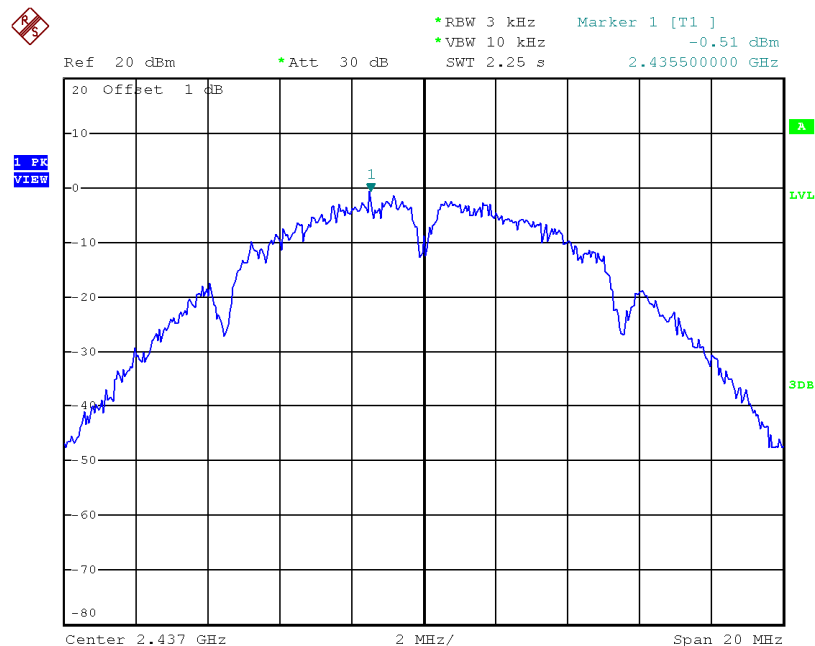
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-2.36	0.58	8.00	Complies
2437	-0.51	0.89	8.00	Complies
2462	-3.19	0.48	8.00	Complies

TX CH01



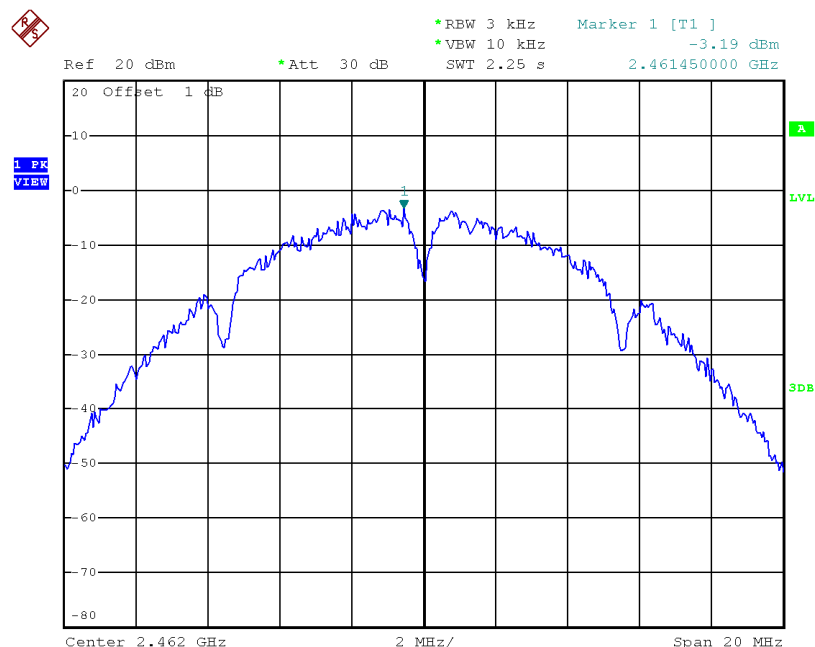
Date: 28.JAN.2015 16:47:12

TX CH06



Date: 28.JAN.2015 16:49:05

TX CH11

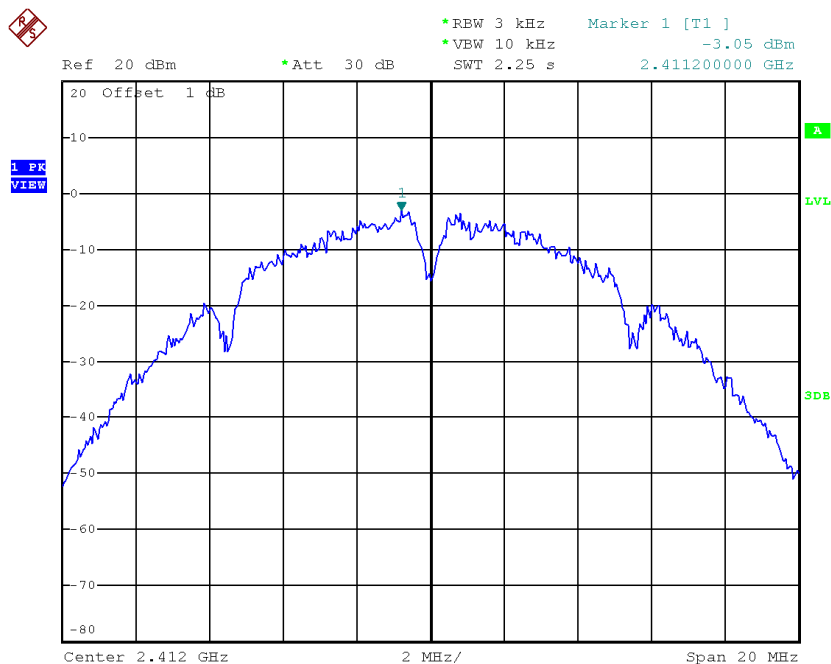


Date: 28.JAN.2015 16:51:16

Test Mode :TX B Mode_CH01/06/11_ANT 3

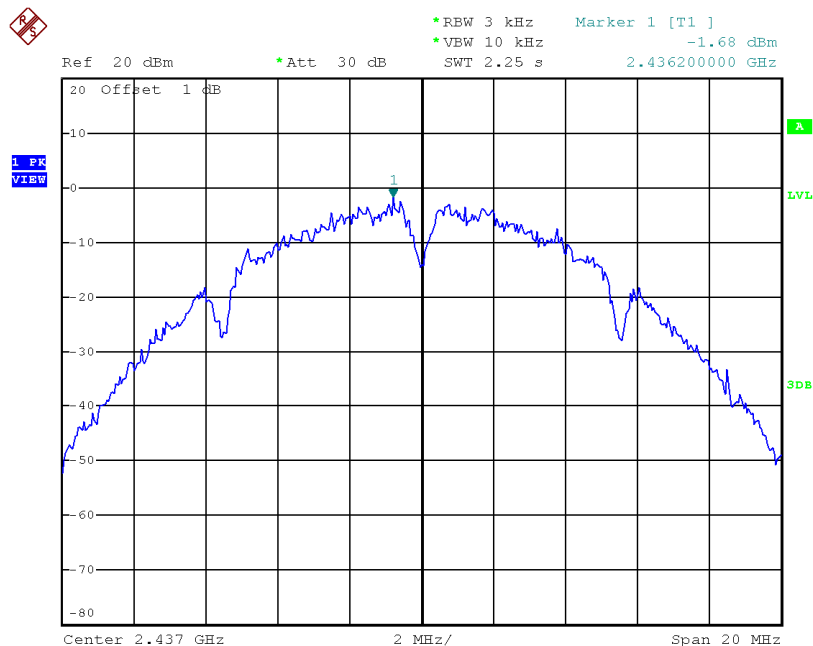
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-3.05	0.50	8.00	Complies
2437	-1.68	0.68	8.00	Complies
2462	-4.13	0.39	8.00	Complies

TX CH01



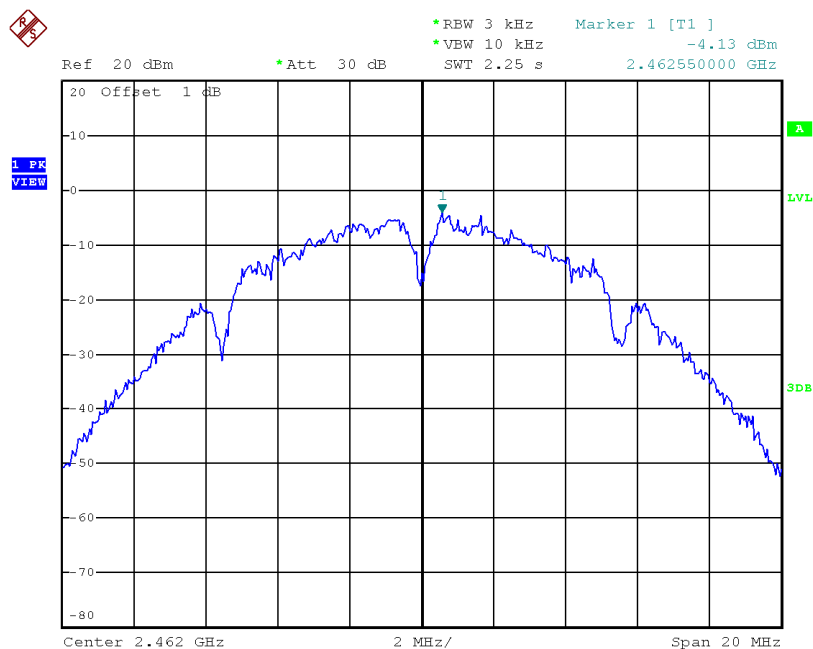
Date: 28.JAN.2015 17:58:39

TX CH06



Date: 28.JAN.2015 18:00:27

TX CH11



Date: 28.JAN.2015 18:02:35

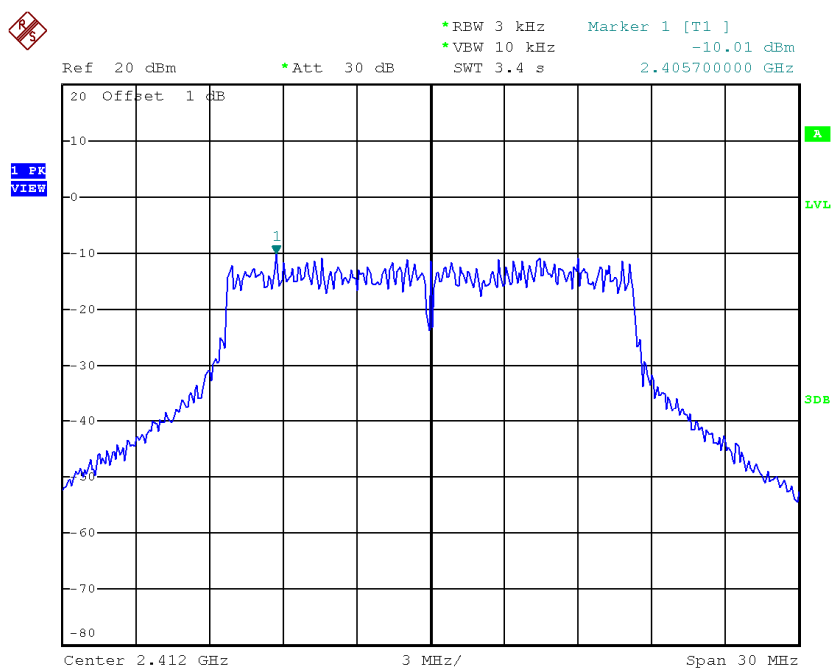
Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	1.95	1.57	8.00	Complies
2437	3.33	2.15	8.00	Complies
2462	0.93	1.24	8.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.01	0.10	8.00	Complies
2437	-3.91	0.41	8.00	Complies
2462	-9.61	0.11	8.00	Complies

TX CH01

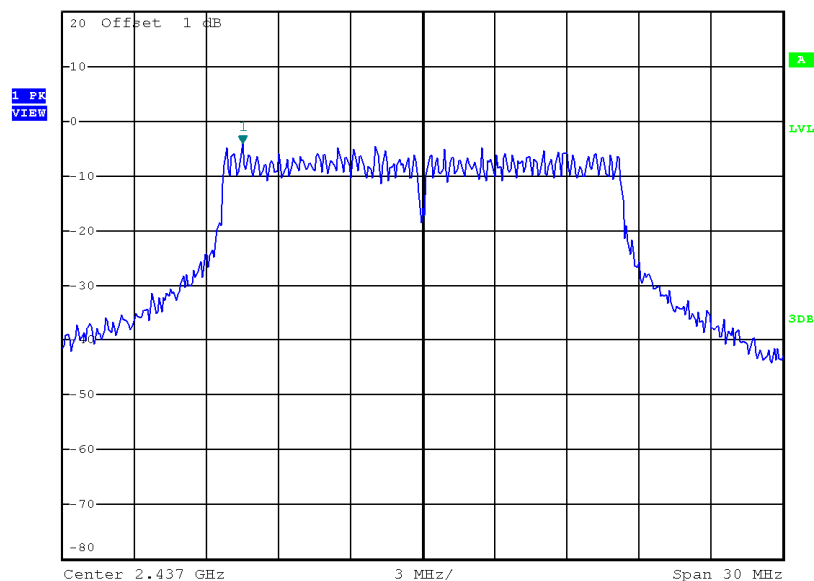


Date: 28.JAN.2015 17:47:38

TX CH06



Ref 20 dBm *Att 30 dB SWT 3.4 s
 *RBW 3 kHz Marker 1 [T1] -3.91 dBm
 *VBW 10 kHz 2.429500000 GHz

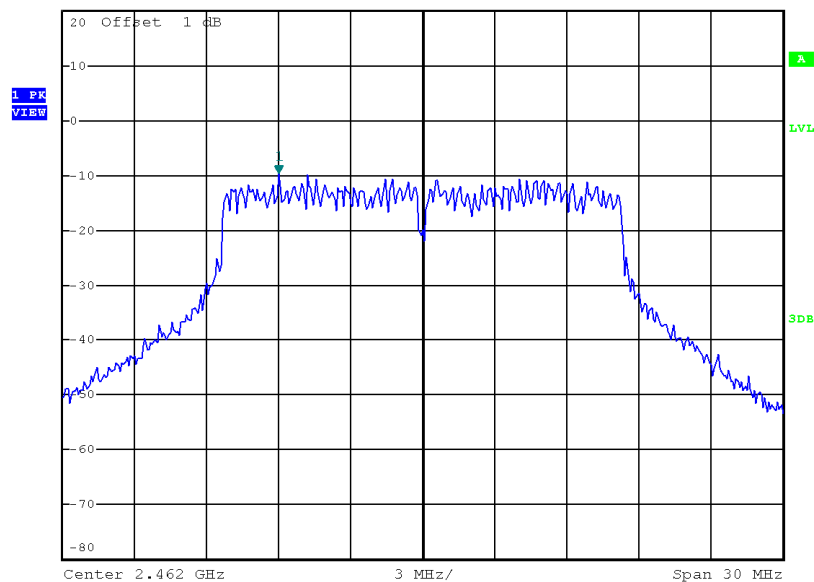


Date: 28.JAN.2015 17:50:27

TX CH11



Ref 20 dBm *Att 30 dB SWT 3.4 s
 *RBW 3 kHz Marker 1 [T1] -9.61 dBm
 *VBW 10 kHz 2.456000000 GHz

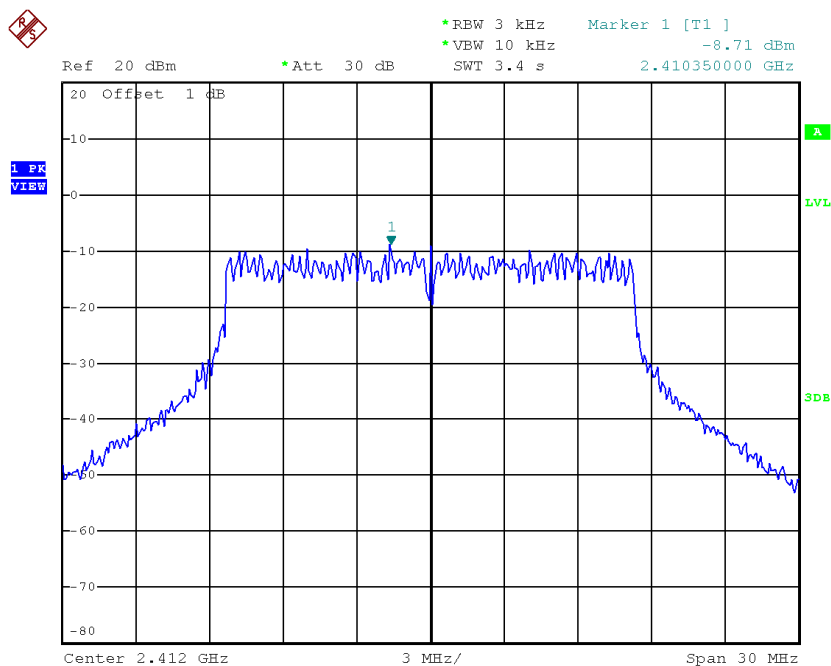


Date: 28.JAN.2015 17:52:28

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

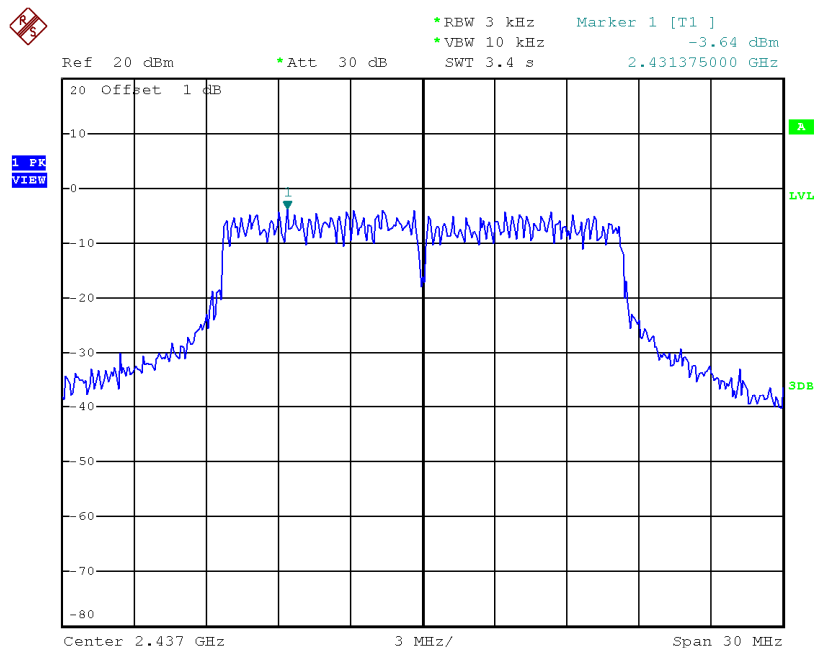
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.71	0.13	8.00	Complies
2437	-3.64	0.43	8.00	Complies
2462	-8.73	0.13	8.00	Complies

TX CH01



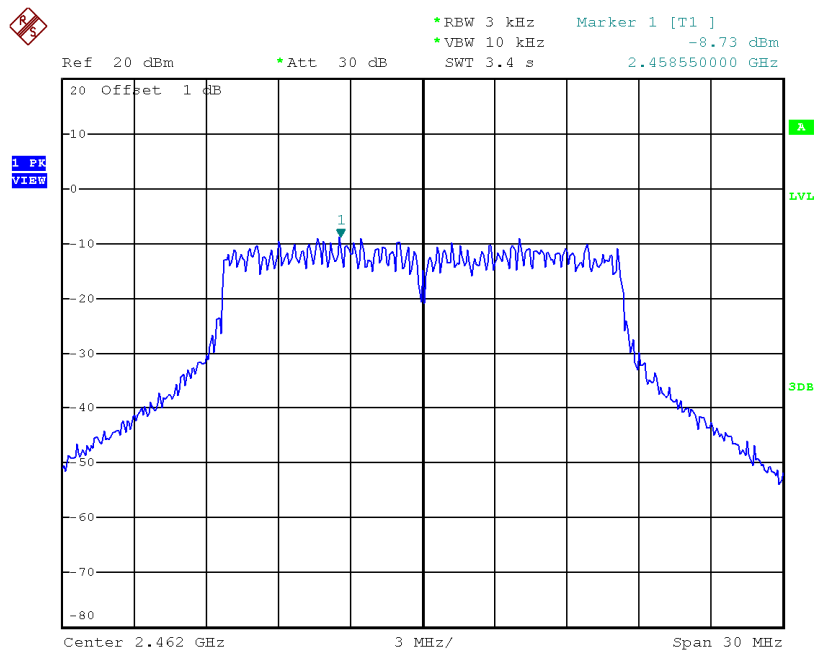
Date: 28.JAN.2015 16:54:06

TX CH06



Date: 28.JAN.2015 16:55:10

TX CH11

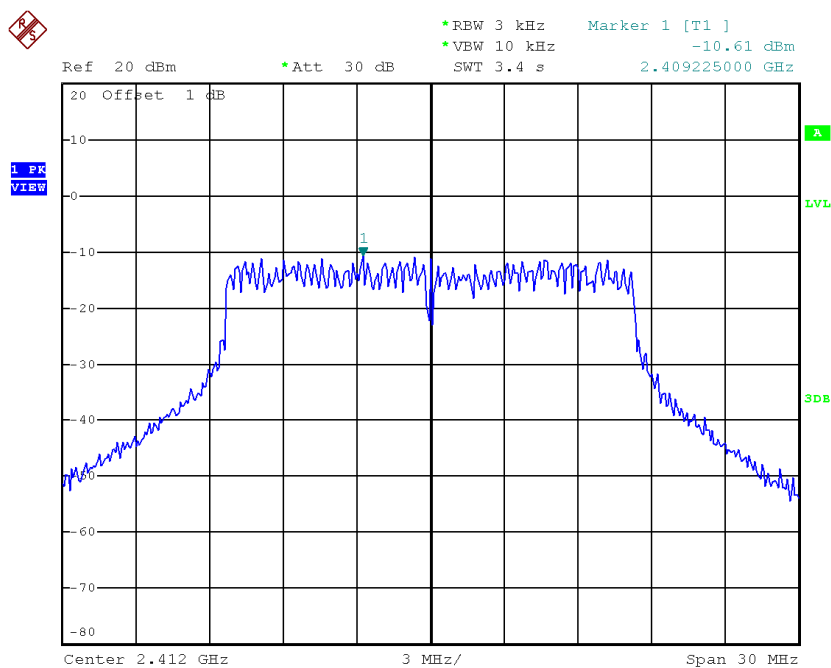


Date: 28.JAN.2015 16:56:12

Test Mode :TX G Mode_CH01/06/11_ANT 3

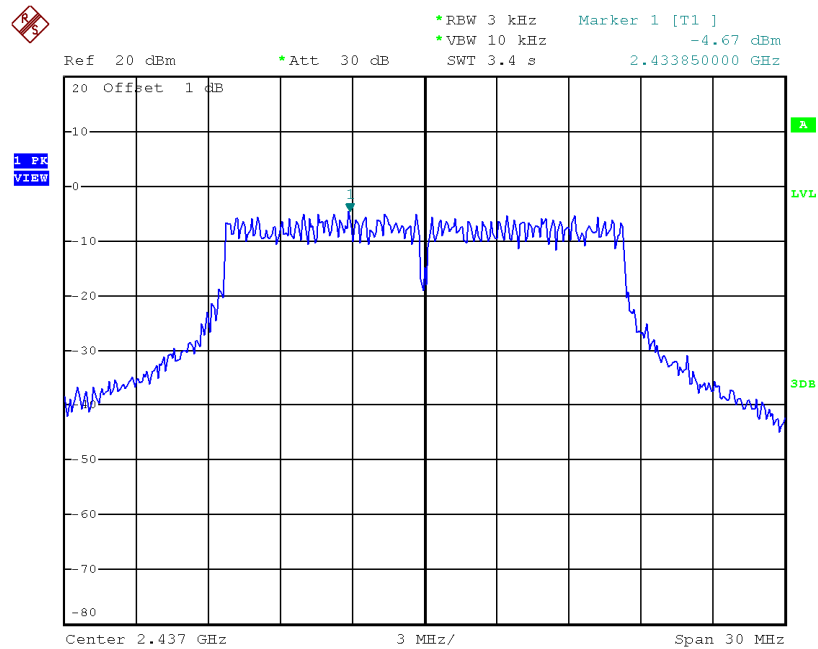
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.61	0.09	8.00	Complies
2437	-4.67	0.34	8.00	Complies
2462	-10.00	0.10	8.00	Complies

TX CH01



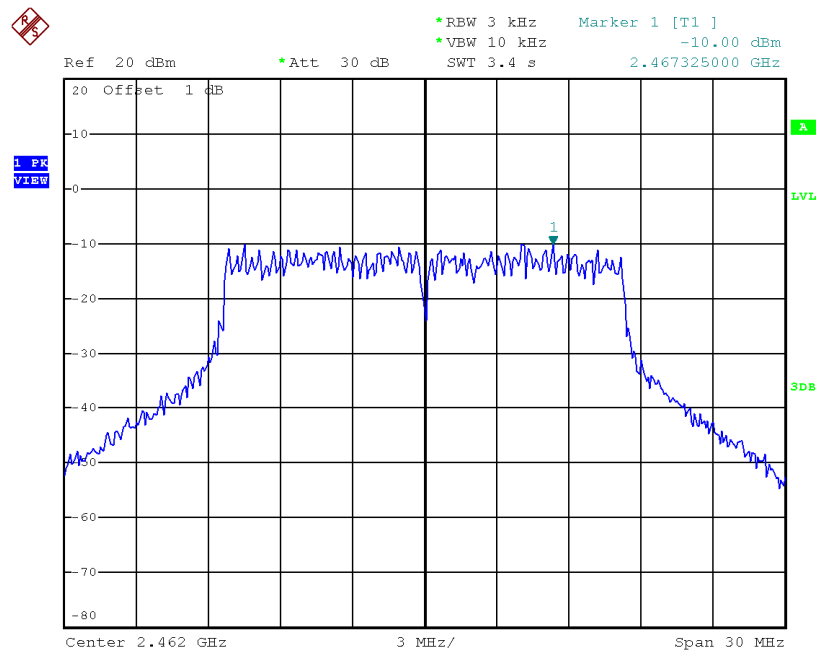
Date: 28.JAN.2015 17:48:34

TX CH06



Date: 28.JAN.2015 17:51:04

TX CH11



Date: 28.JAN.2015 17:53:24

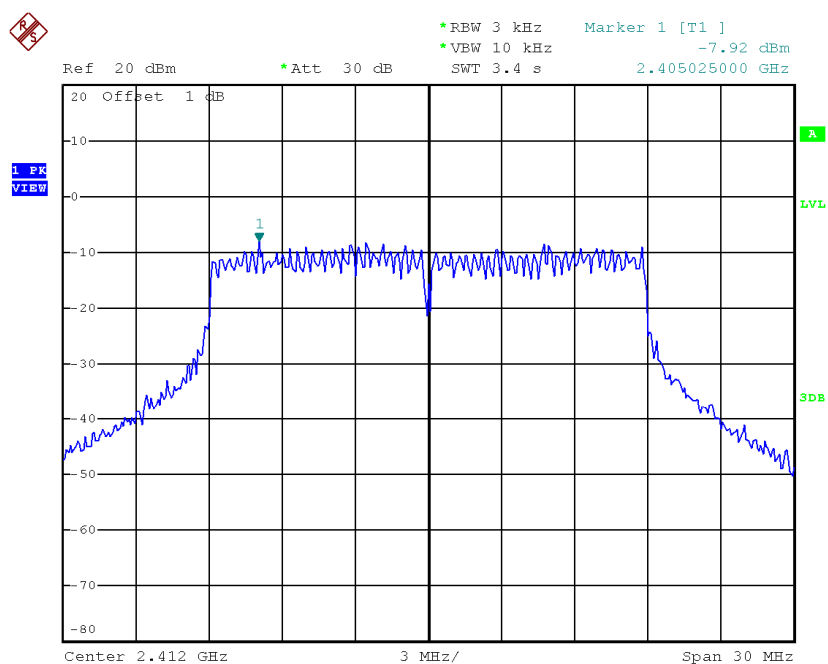
Test Mode :TX G Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-4.93	0.32	8.00	Complies
2437	0.72	1.18	8.00	Complies
2462	-4.64	0.34	8.00	Complies

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

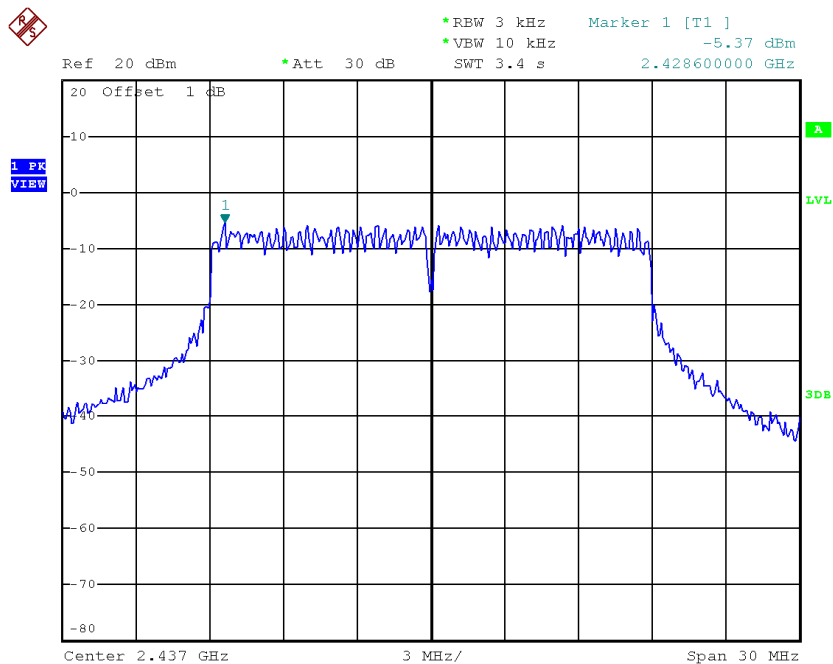
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.92	0.16	8.00	Complies
2437	-5.37	0.29	8.00	Complies
2462	-7.39	0.18	8.00	Complies

TX CH01



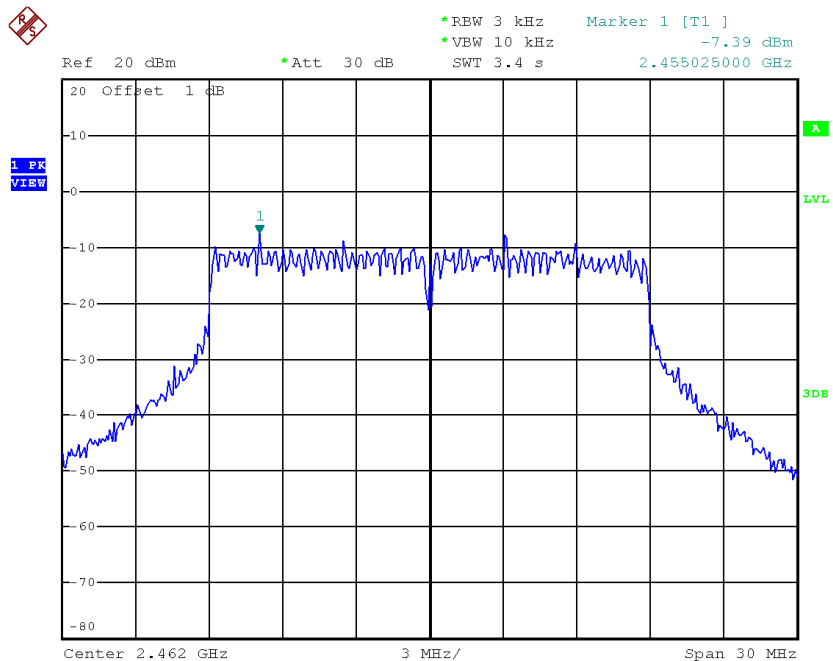
Date: 28.JAN.2015 17:34:17

TX CH06



Date: 28.JAN.2015 17:36:30

TX CH11

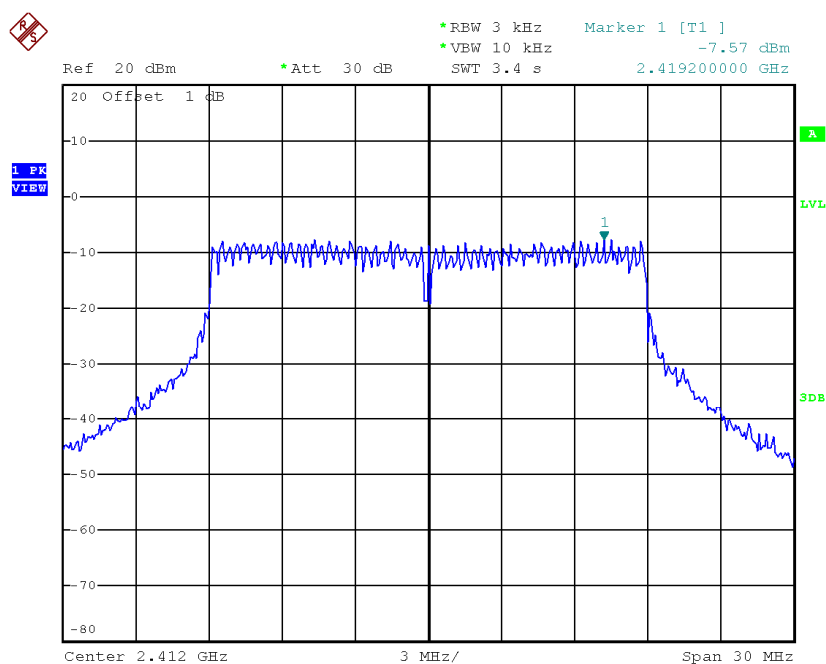


Date: 28.JAN.2015 17:38:35

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

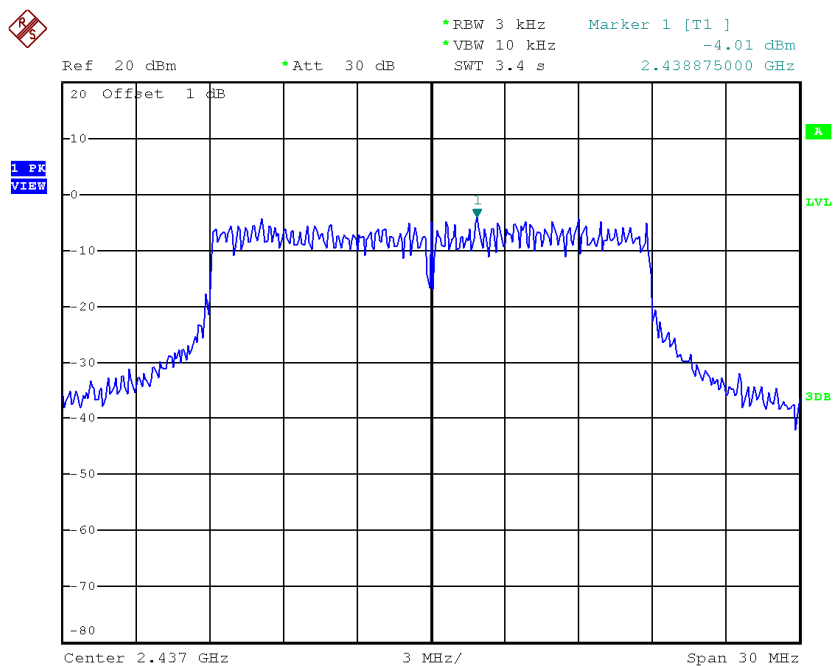
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.57	0.17	8.00	Complies
2437	-4.01	0.40	8.00	Complies
2462	-6.63	0.22	8.00	Complies

TX CH01



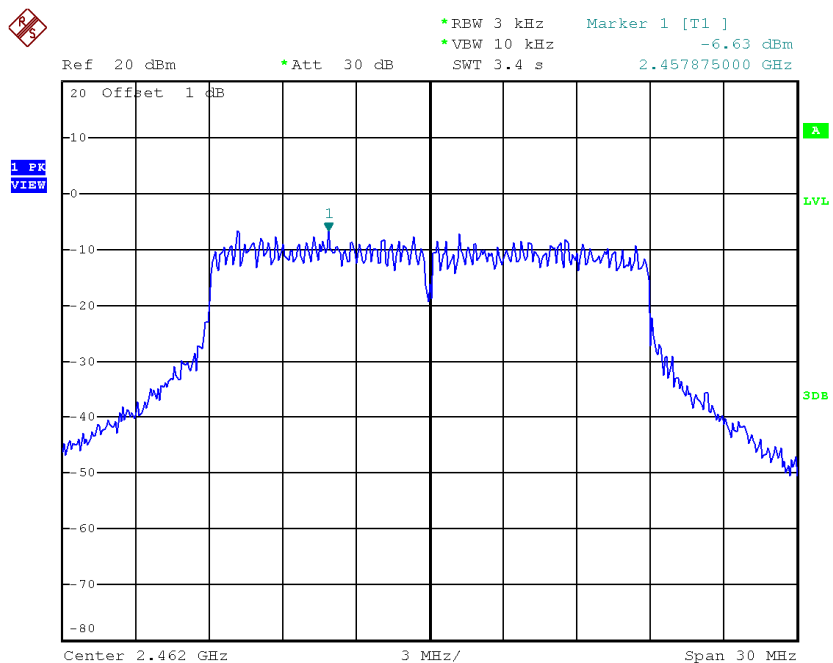
Date: 28.JAN.2015 16:58:35

TX CH06



Date: 28.JAN.2015 16:59:19

TX CH11

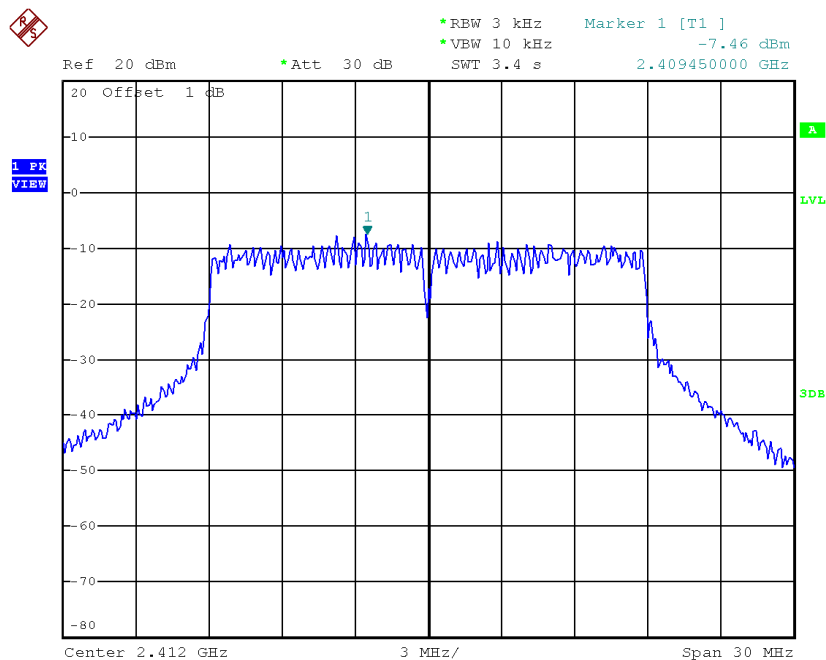


Date: 28.JAN.2015 17:00:25

Test Mode : TX N-20M Mode_CH01/06/11_ANT 3

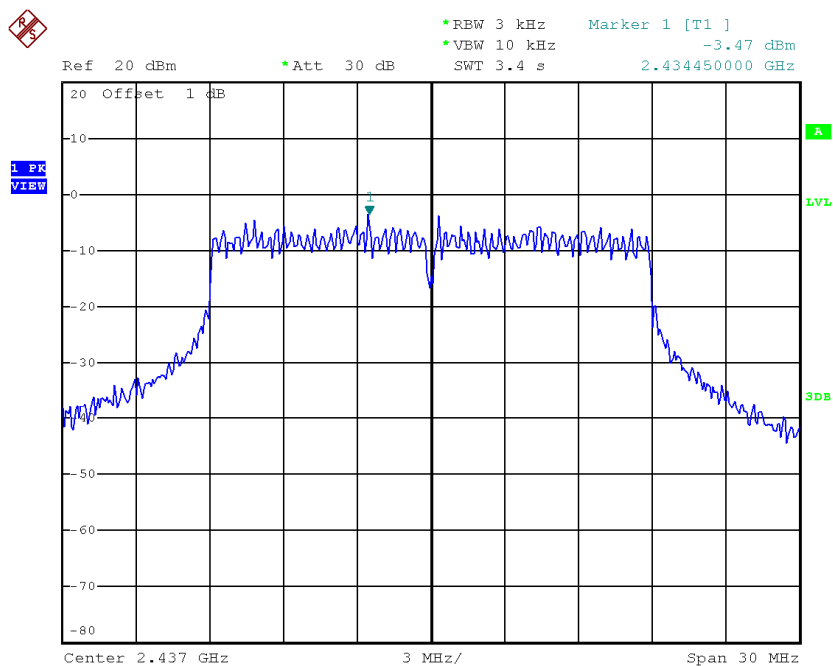
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.46	0.18	8.00	Complies
2437	-3.47	0.45	8.00	Complies
2462	-8.45	0.14	8.00	Complies

TX CH01



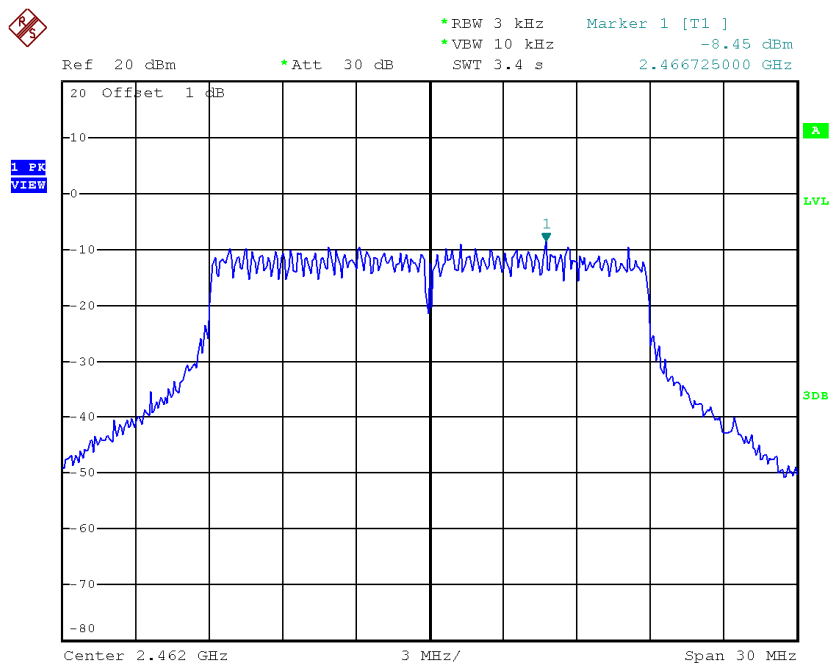
Date: 28.JAN.2015 17:35:13

TX CH06



Date: 28.JAN.2015 17:37:08

TX CH11



Date: 28.JAN.2015 17:39:32

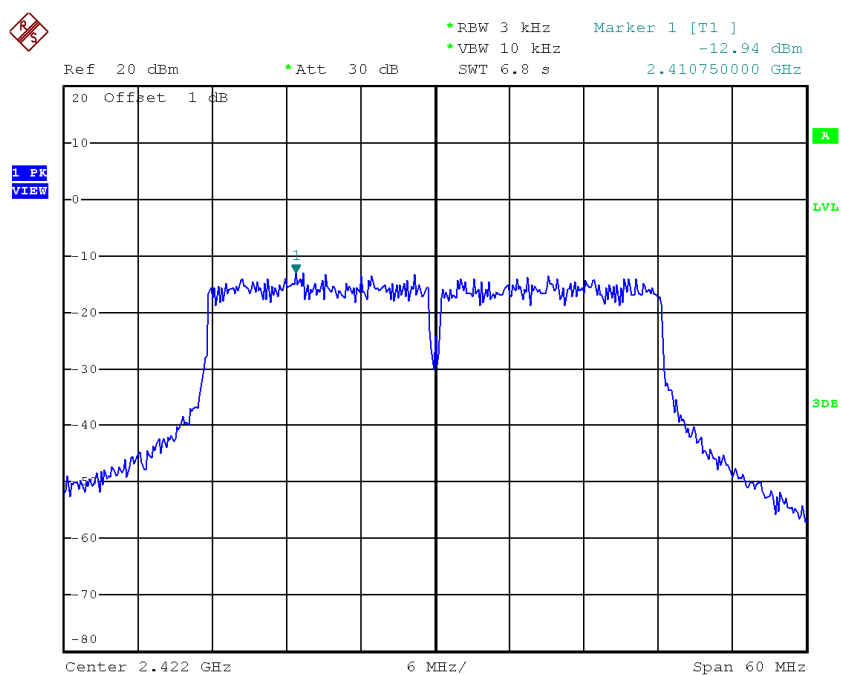
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-2.87	0.52	8.00	Complies
2437	0.56	1.14	8.00	Complies
2462	-2.66	0.54	8.00	Complies

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

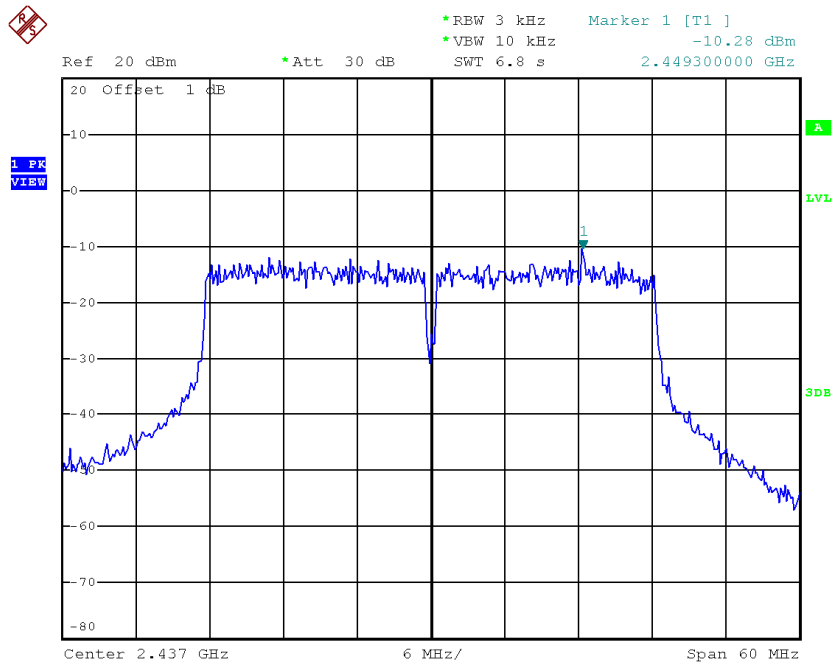
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-12.94	0.05	8.00	Complies
2437	-10.28	0.09	8.00	Complies
2452	-17.32	0.02	8.00	Complies

TX CH03



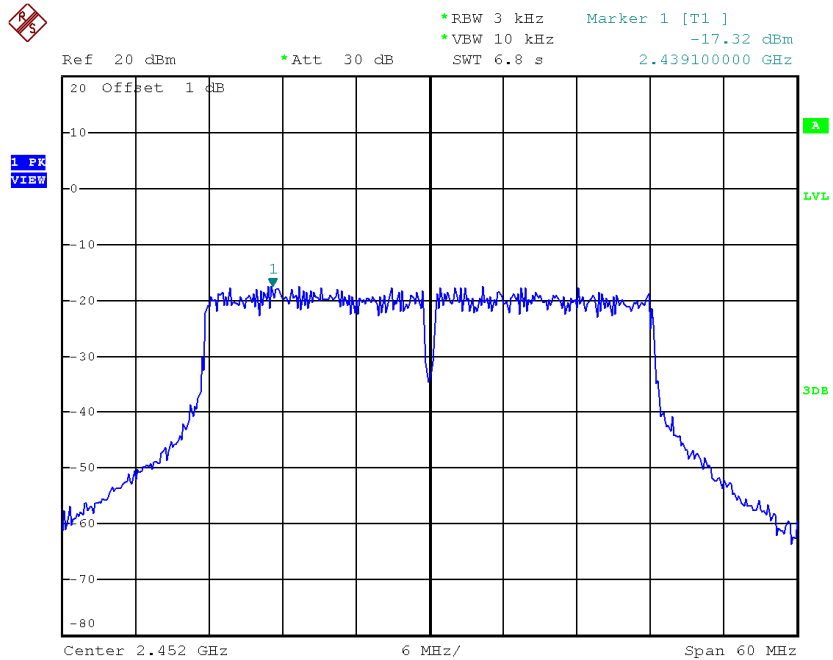
Date: 28.JAN.2015 17:22:28

TX CH06



Date: 28.JAN.2015 17:20:37

TX CH09

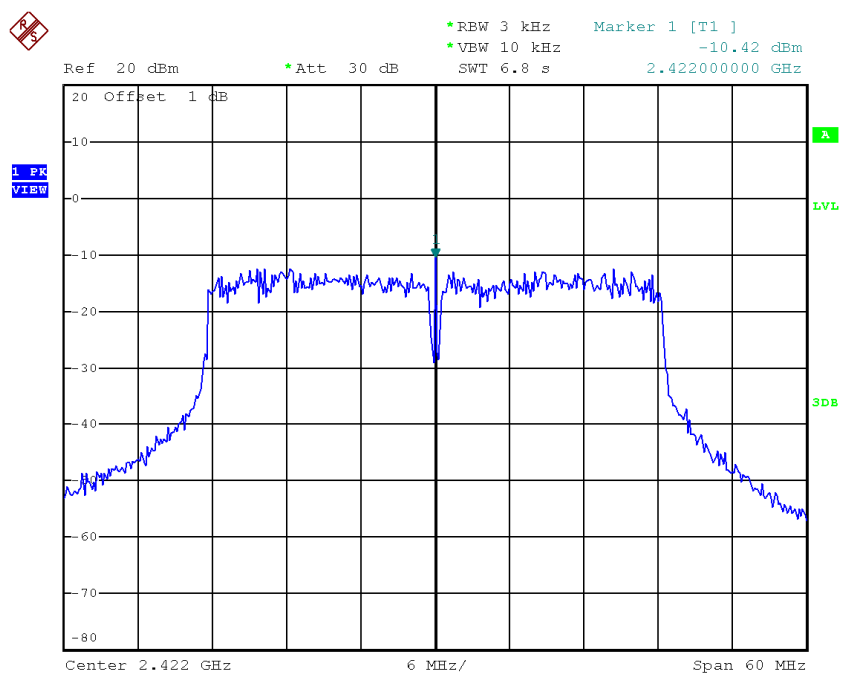


Date: 28.JAN.2015 17:18:37

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

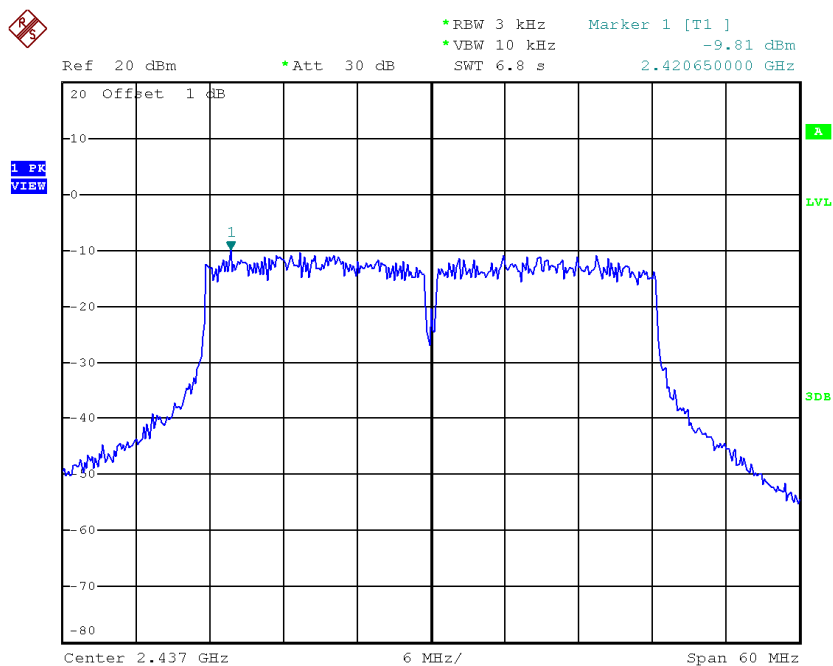
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-10.42	0.09	8.00	Complies
2437	-9.81	0.10	8.00	Complies
2452	-14.09	0.04	8.00	Complies

TX CH03



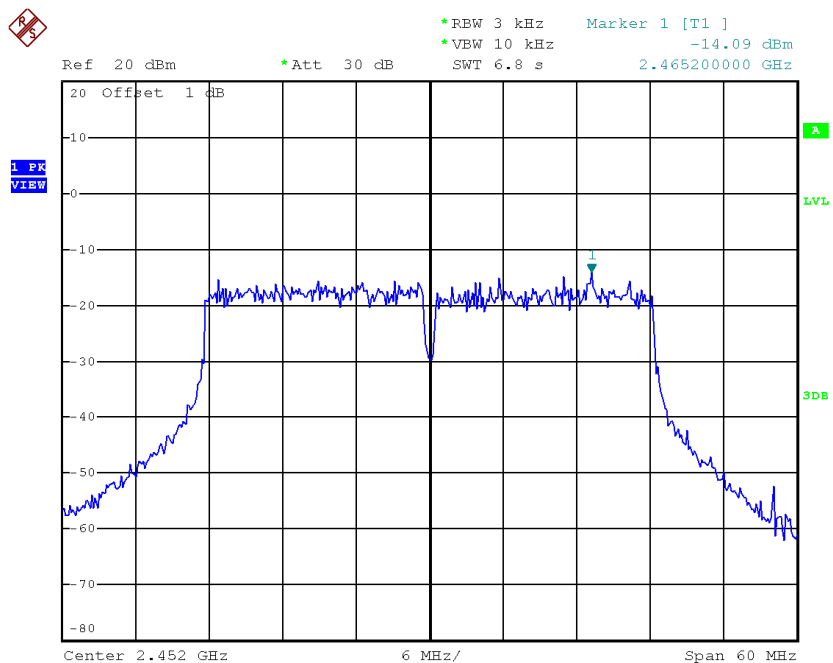
Date: 28.JAN.2015 17:03:49

TX CH06



Date: 28.JAN.2015 17:06:06

TX CH09

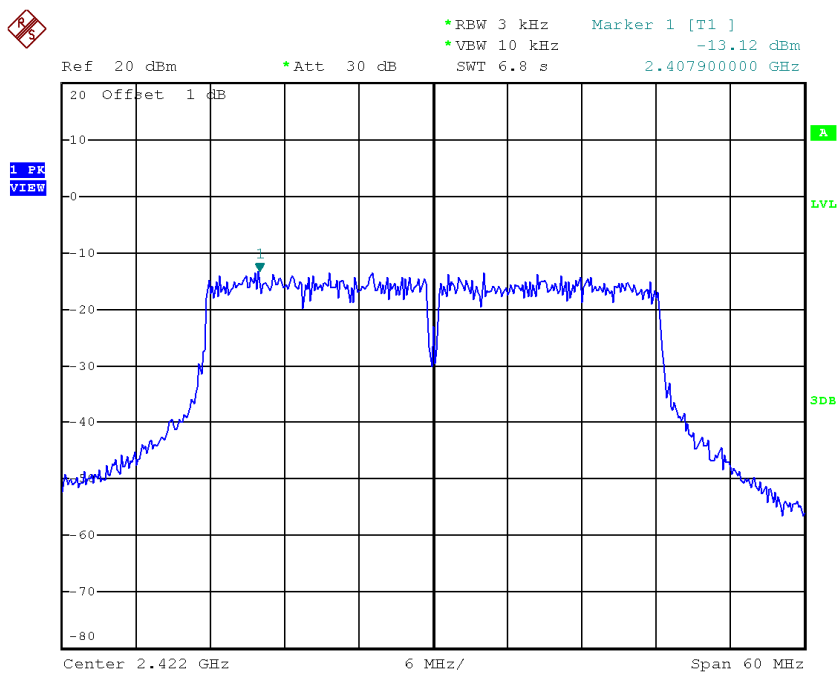


Date: 28.JAN.2015 17:08:57

Test Mode : TX N-40M Mode_CH03/06/09_ANT 3

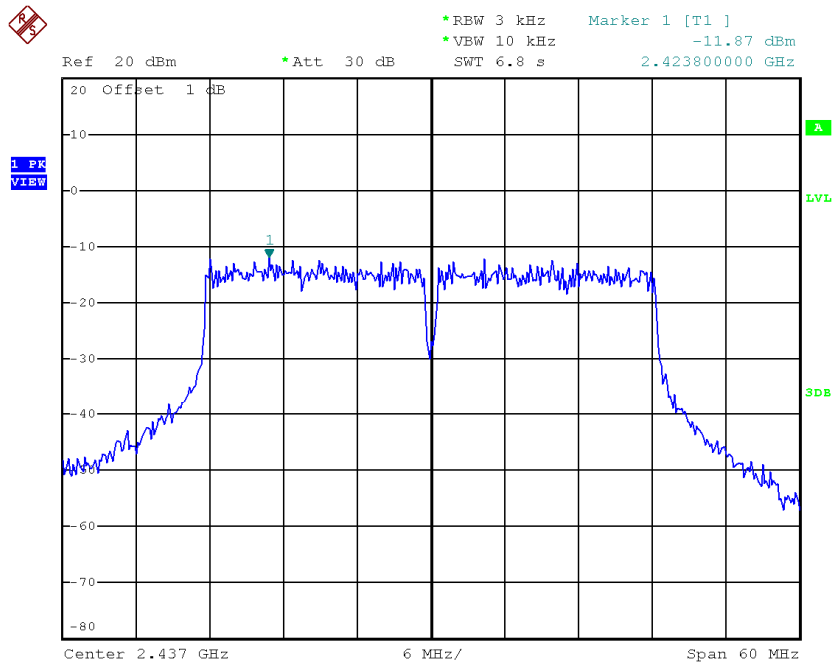
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-13.12	0.05	8.00	Complies
2437	-11.87	0.07	8.00	Complies
2452	-16.36	0.02	8.00	Complies

TX CH03



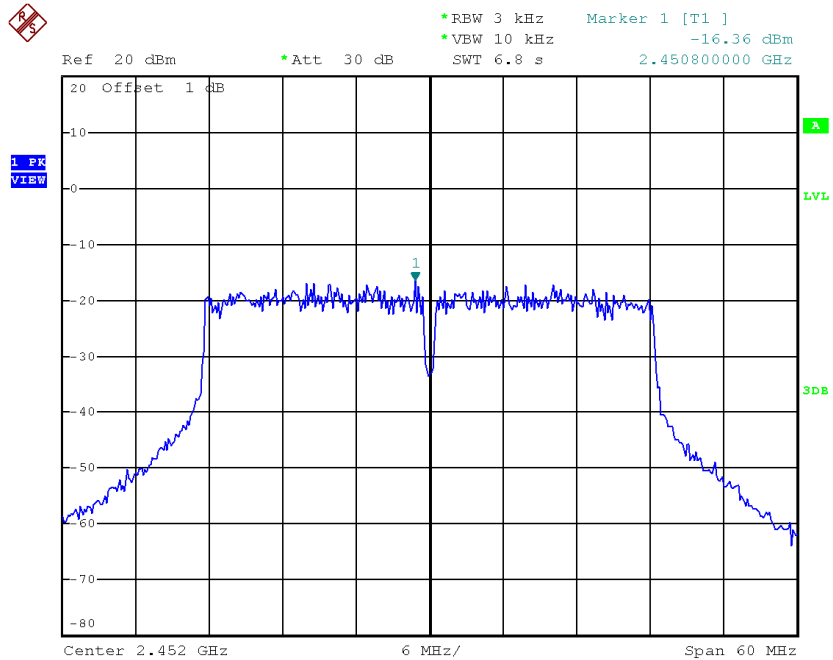
Date: 28.JAN.2015 17:23:24

TX CH06



Date: 28.JAN.2015 17:21:14

TX CH09



Date: 28.JAN.2015 17:19:33

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-7.20	0.19	8.00	Complies
2437	-5.80	0.26	8.00	Complies
2452	-10.93	0.08	8.00	Complies