



Neutron Engineering Inc.

FCC Radio Test Report

FCC ID: T58WF2533B

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

Project No. : 1404C226
Equipment : 300Mbps Wireless N High Power Router
Model Name : NW739;WF2533
Applicant : NETIS SYSTEMS CO., LTD
Address : 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Apr. 28, 2014
Date of Test: Apr. 28, 2014 ~ May. 21, 2014
Issued Date: May. 22, 2014

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Declaration

Neutron 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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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FCCP-1-1404C226	Original Issue.	May. 22, 2014



1. CERTIFICATION

Equipment : 300Mbps Wireless N High Power Router
Brand Name : netis
Model Name : NW739;WF2533
Applicant : NETIS SYSTEMS CO., LTD
Date of Test : Apr. 28, 2014 ~ May. 21, 2014
Test Item : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1404C226) 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				
Standard(s)	Section	Test Item	Judgment	Remark
	FCC			
15.207		Conducted Emission	PASS	
15.247(d)		Antenna conducted Spurious Emission	PASS	
15.247(a)(2)		6dB Bandwidth	PASS	
15.247(b)(3)		Peak Output Power	PASS	
15.247(e)		Power Spectral Density	PASS	
15.203		Antenna Requirement	PASS	
15.209/15.205		Transmitter Radiated Emissions	PASS	

NOTE:

- (1) " N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r01 (Measurement Guidelines of DTS)



2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement :

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

B. Radiated Measurement :

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	300Mbps Wireless N High Power Router	
Brand Name	netis	
Model Name	NW739;WF2533	
Model Difference	Only differ in model name and antenna type, the model NW739 is non-detachable antenna, the model WF2533 is detachable antenna.	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b: DSSS 802.11g: OFDM 802.11n: OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 18.10dBm 802.11g: 23.00dBm 802.11n(20MHz): 22.66dBm 802.11n(40MHz): 23.31dBm
Power Source	DC voltage supplied from AC/DC adapter. Model: NT12V1AUL	
Power Rating	I/P: AC 100-240V~0.3A 50/60Hz O/P: DC 12V/1A	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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



2. Channel List:

CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 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

Group 1: Non-detachable antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	<i>RF link</i>	WLAN05132	Dipole	N/A	5.17	TX
2	<i>RF link</i>	WLAN05133	Dipole	N/A	5.17	TX
3	<i>RF link</i>	WLAN05134	Dipole	N/A	5.17	RX

Group 2: Detachable antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	<i>RF link</i>	WLAN05132	Dipole	R-SMA	5.17	TX
2	<i>RF link</i>	WLAN05133	Dipole	R-SMA	5.17	TX
3	<i>RF link</i>	WLAN05134	Dipole	R-SMA	5.17	RX

Note:

(1) The Group 1 antenna is non-detachable and Group 2 is detachable, Group 2 is recorded as the worst case.

(2) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and one receivers (2T1R)

4.

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



3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

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.



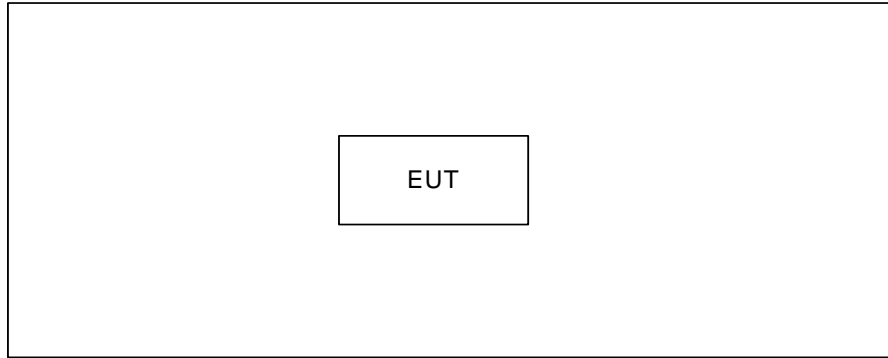
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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	Mtool 1.0.0.8		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	58	58	58
IEEE 802.11g OFDM	61	60	59
IEEE 802.11n (20MHz)	42	41	40
Frequency	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	44	43	42



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



Control Room



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
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

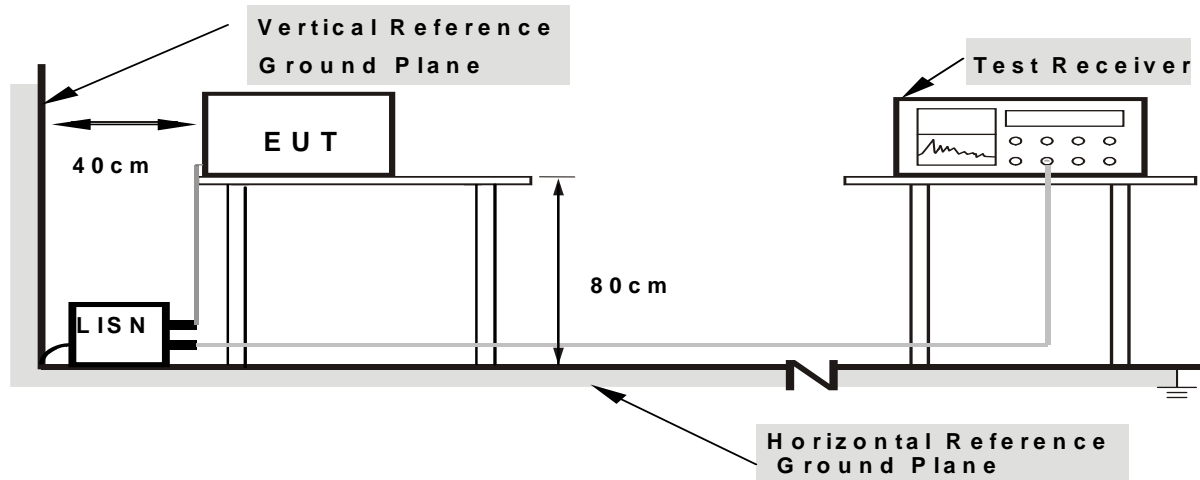
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

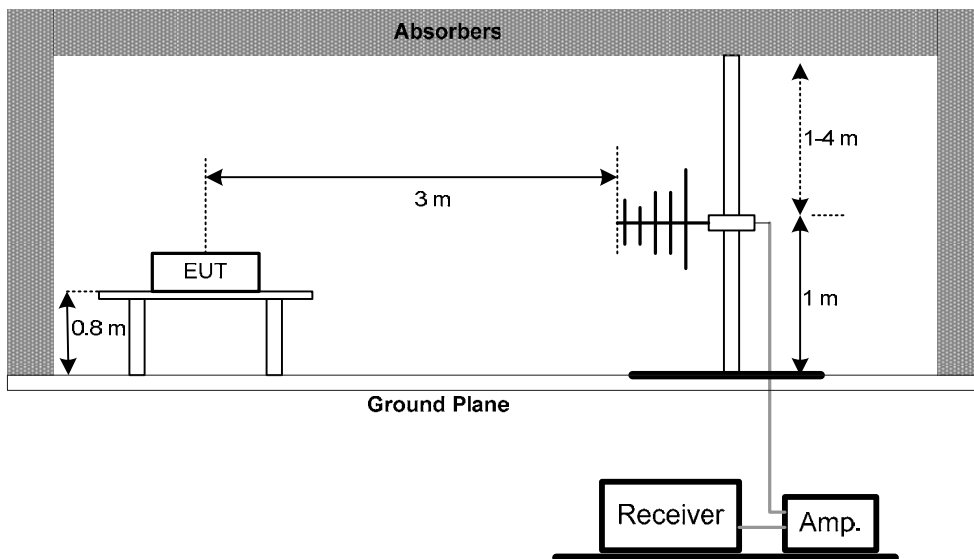
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. 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.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

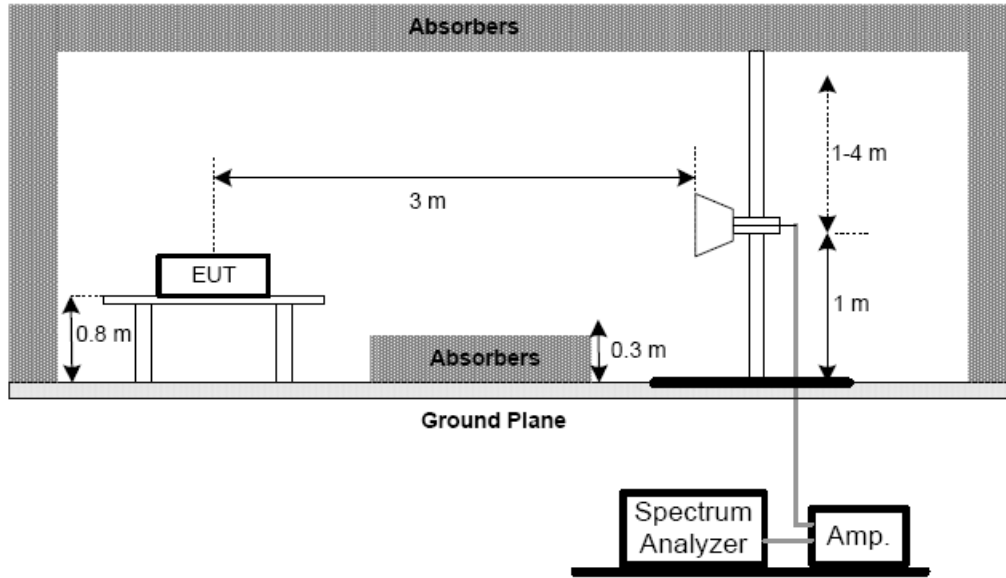
No deviation

4.2.4 TEST SETUP

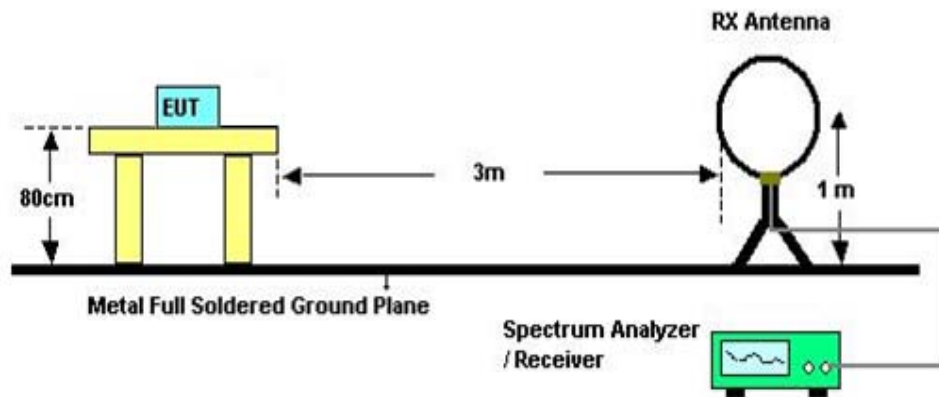
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

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



4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.



5. BANDWIDTH TEST

5.1 Applied procedures

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

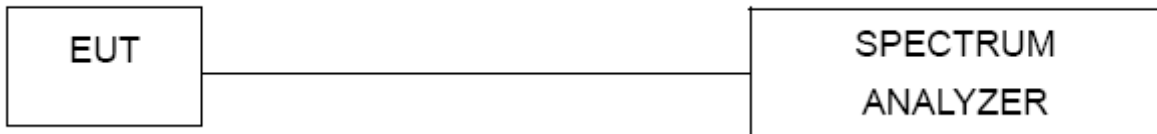
5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.



6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

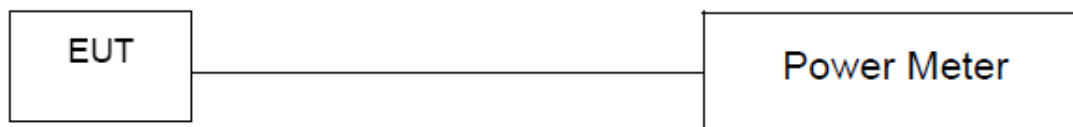
6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.



7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

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

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.



8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

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

8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

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

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.



9. MEASUREMENT INSTRUMENTS LIST

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

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Test Receiver	R&S	ESCI	100382	Mar. 29, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014
5	Antenna	ETS	3115	00075789	Mar. 29, 2015
6	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014
8	Test Cable	HUBER+SUHNER	C-45	N/A	Mar. 29, 2015
9	Controller	CT	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015



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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 24, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 24, 2015

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

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

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



10. EUT TEST PHOTO

Conducted Measurement Photos

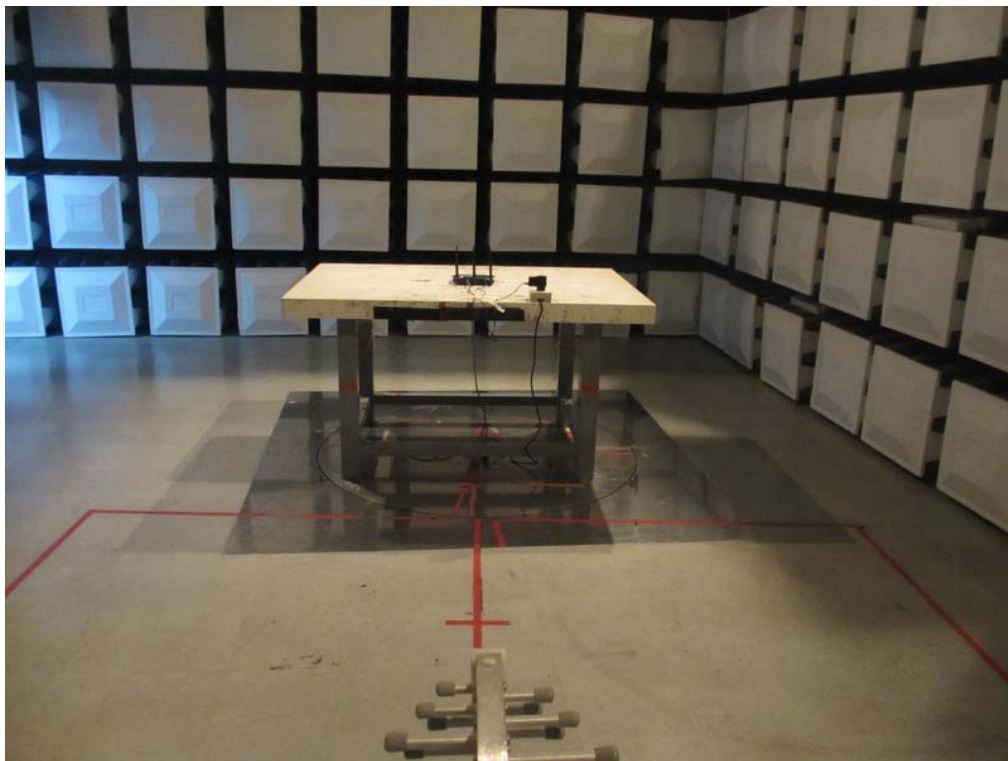
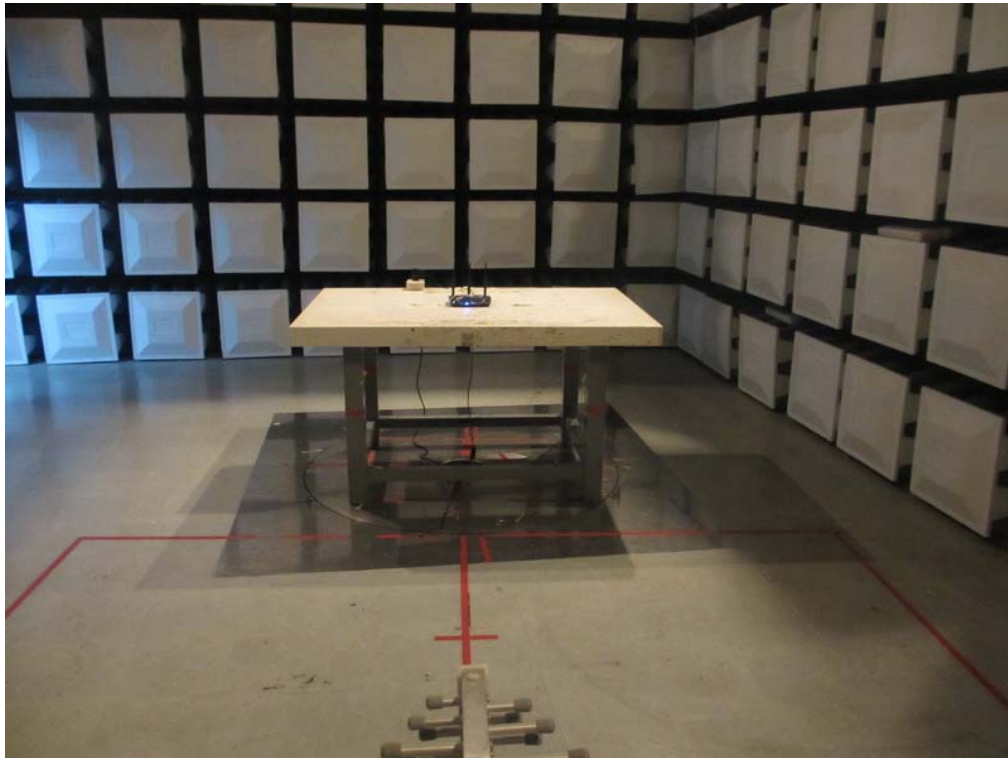




**Radiated Measurement Photos
9KHz to 30MHz**



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



**Radiated Measurement Photos
Above 1000MHz**



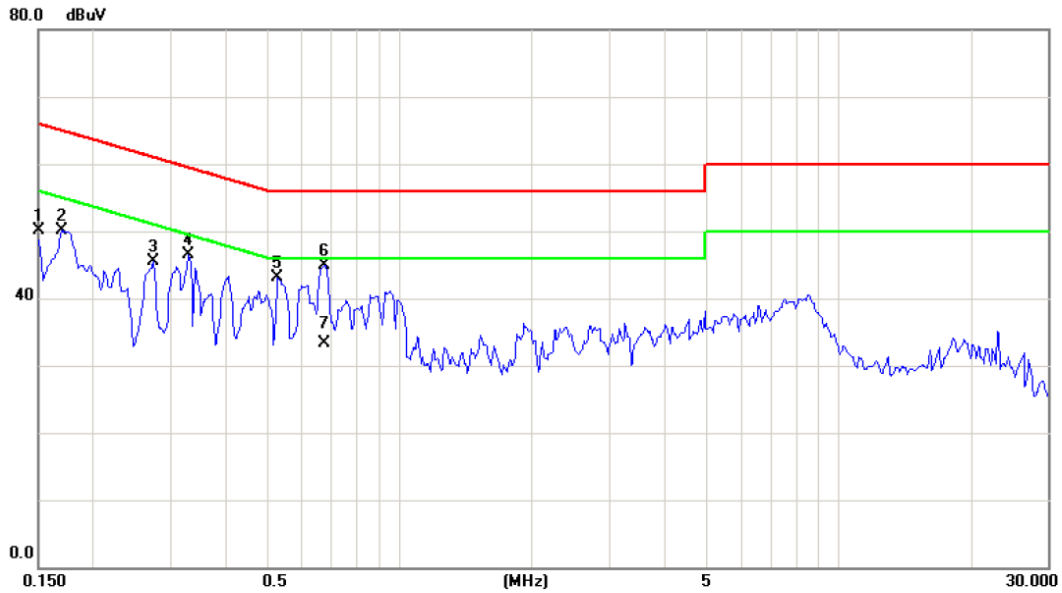


ATTACHMENT A - CONDUCTED EMISSION



Test Mode : TX MODE

Line

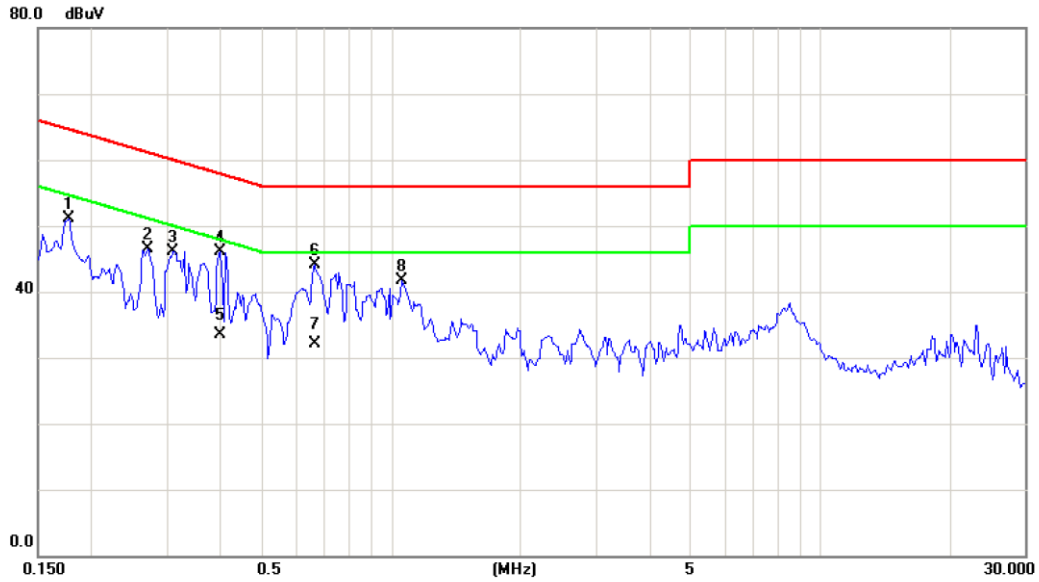


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	40.55	9.63	50.18	66.00	-15.82	peak	
2		0.1695	40.42	9.63	50.05	64.98	-14.93	peak	
3		0.2750	35.82	9.67	45.49	60.97	-15.48	peak	
4		0.3297	36.78	9.67	46.45	59.46	-13.01	peak	
5		0.5290	33.33	9.70	43.03	56.00	-12.97	peak	
6	*	0.6734	35.19	9.72	44.91	56.00	-11.09	peak	
7		0.6734	23.50	9.72	33.22	46.00	-12.78	AVG	



Test Mode : TX MODE

Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1773	41.35	9.71	51.06	64.61	-13.55	peak	
2	0.2711	36.84	9.72	46.56	61.08	-14.52	peak	
3	0.3102	36.45	9.72	46.17	59.97	-13.80	peak	
4 *	0.4000	36.46	9.73	46.19	57.85	-11.66	peak	
5	0.4000	23.70	9.73	33.43	47.85	-14.42	AVG	
6	0.6617	34.29	9.75	44.04	56.00	-11.96	peak	
7	0.6617	22.40	9.75	32.15	46.00	-13.85	AVG	
8	1.0562	31.92	9.77	41.69	56.00	-14.31	peak	



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



Test Mode: TX Mode 2412MHz

Freq. (MHz)	Ant. (0°/90°)	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0094	0°	68.35	24.30	92.65	128.12	-35.47	AVG
0.0095	0°	72.35	24.30	96.65	148.12	-51.47	PEAK
0.0136	0°	70.35	24.30	94.65	124.93	-30.28	AVG
0.0137	0°	79.35	24.30	103.65	144.93	-41.28	PEAK
0.0245	0°	56.36	24.02	80.38	119.82	-39.45	AVG
0.0246	0°	60.12	24.02	84.14	139.82	-55.69	PEAK
0.0326	0°	61.36	23.50	84.86	117.34	-32.48	AVG
0.0328	0°	65.38	23.50	88.88	137.34	-48.46	PEAK
0.5670	0°	18.72	20.01	38.73	72.53	-33.80	QP
1.7535	0°	18.95	19.52	38.47	69.54	-31.07	QP

Freq. (MHz)	Ant. (0°/90°)	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0093	90°	76.35	24.30	100.65	128.20	-27.55	AVG
0.0094	90°	82.36	24.30	106.66	148.20	-41.54	PEAK
0.0235	90°	56.38	24.08	80.46	120.18	-39.72	AVG
0.0237	90°	59.35	24.08	83.43	140.18	-56.75	PEAK
0.0316	90°	57.35	23.57	80.92	117.61	-36.70	AVG
0.0318	90°	58.35	23.57	81.92	137.61	-55.70	PEAK
0.0427	90°	59.35	22.86	82.21	115.00	-32.78	AVG
0.0429	90°	63.35	22.86	86.21	135.00	-48.78	PEAK
0.4914	90°	17.45	19.82	37.27	73.78	-36.50	QP
1.7157	90°	18.63	19.53	38.16	69.54	-31.38	QP

Remark:

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

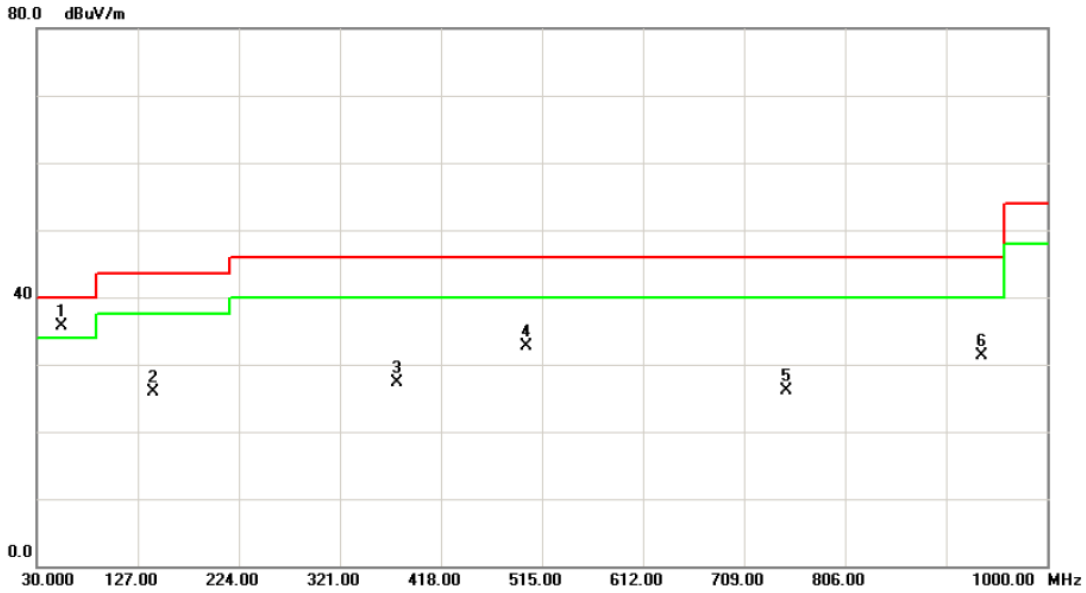


ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)



Test Mode: TX B MODE CHANNEL 01

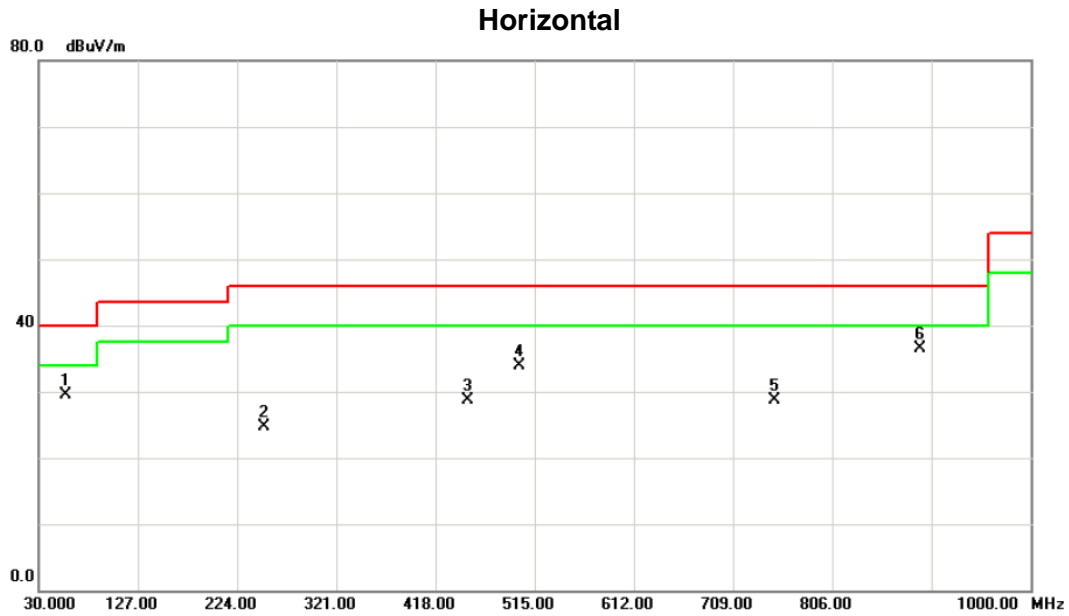
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	57.47	-21.78	35.69	40.00	-4.31	peak	
2		141.5500	46.03	-20.15	25.88	43.50	-17.62	peak	
3		375.3200	42.74	-15.34	27.40	46.00	-18.60	peak	
4		500.4500	48.06	-15.33	32.73	46.00	-13.27	peak	
5		749.7400	33.31	-7.16	26.15	46.00	-19.85	peak	
6		936.9500	37.01	-5.78	31.23	46.00	-14.77	peak	



Test Mode: TX B MODE CHANNEL 01

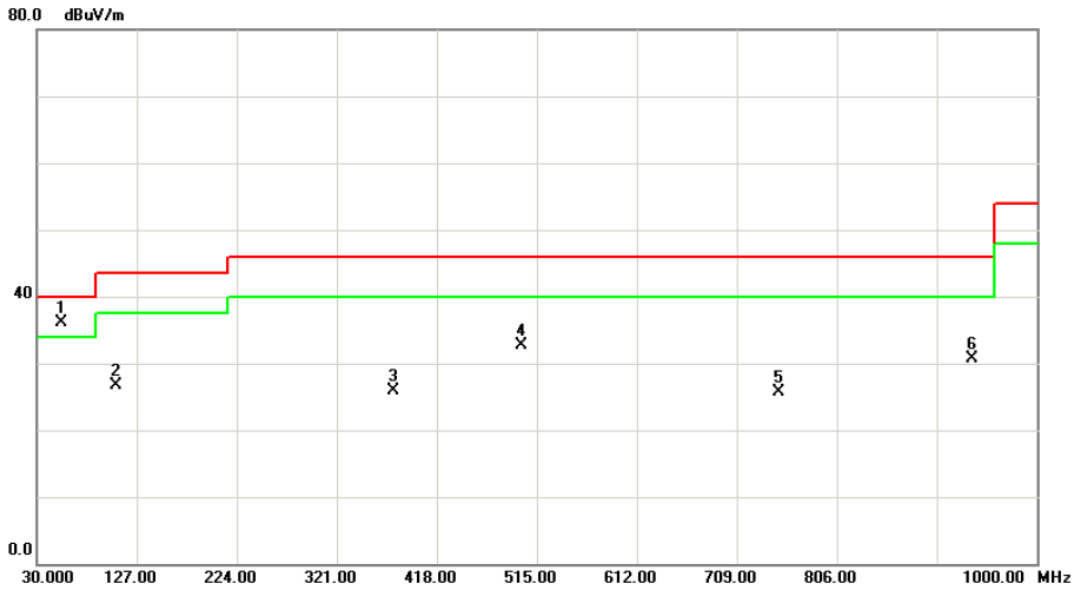


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		56.1900	51.74	-22.33	29.41	40.00	-10.59	peak	
2		250.1900	47.13	-22.49	24.64	46.00	-21.36	peak	
3		450.0100	42.40	-13.78	28.62	46.00	-17.38	peak	
4		500.4500	47.85	-13.96	33.89	46.00	-12.11	peak	
5		749.7400	37.06	-8.32	28.74	46.00	-17.26	peak	
6	*	891.3600	44.28	-7.80	36.48	46.00	-9.52	peak	



Test Mode: TX B MODE CHANNEL 06

Vertical

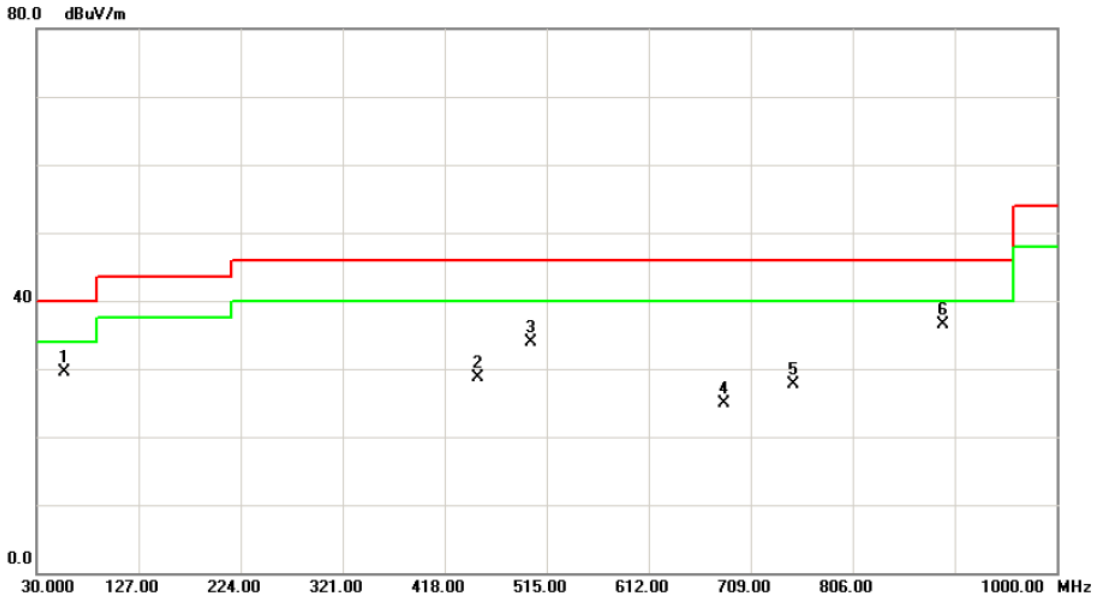


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	57.97	-21.78	36.19	40.00	-3.81	peak	
2		106.6300	51.11	-24.41	26.70	43.50	-16.80	peak	
3		375.3200	41.24	-15.34	25.90	46.00	-20.10	peak	
4		500.4500	48.06	-15.33	32.73	46.00	-13.27	peak	
5		749.7400	32.81	-7.16	25.65	46.00	-20.35	peak	
6		936.9500	36.51	-5.78	30.73	46.00	-15.27	peak	



Test Mode: TX B MODE CHANNEL 06

Horizontal

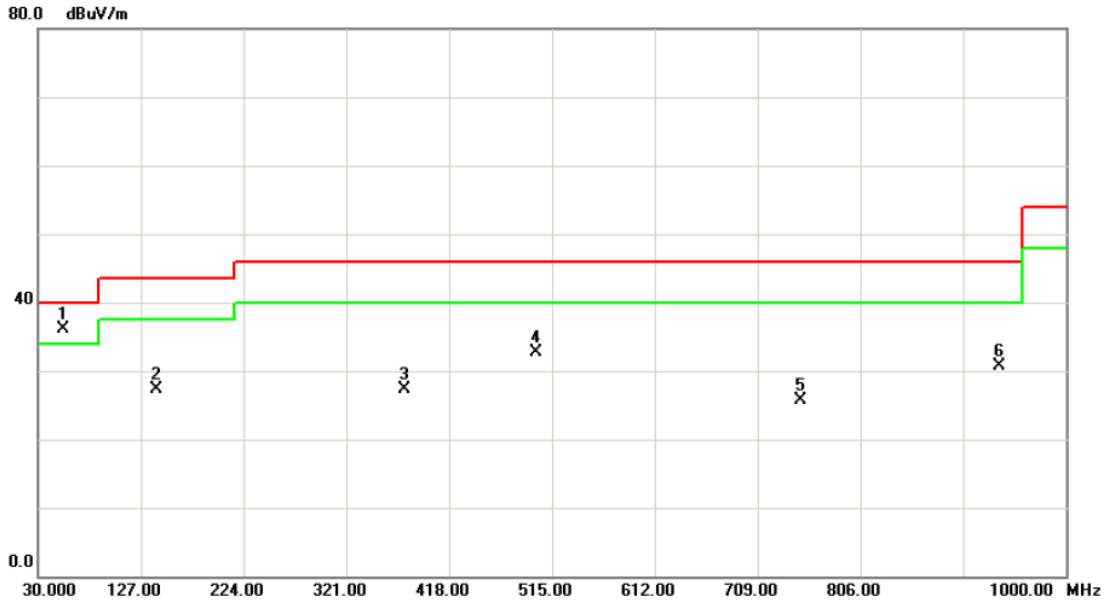


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	56.1900	51.74	-22.33	29.41	40.00	-10.59	peak	
2	450.0100	42.40	-13.78	28.62	46.00	-17.38	peak	
3	500.4500	47.85	-13.96	33.89	46.00	-12.11	peak	
4	683.7800	34.73	-9.84	24.89	46.00	-21.11	peak	
5	749.7400	36.06	-8.32	27.74	46.00	-18.26	peak	
6 *	891.3600	44.28	-7.80	36.48	46.00	-9.52	peak	



Test Mode: TX B MODE CHANNEL 11

Vertical

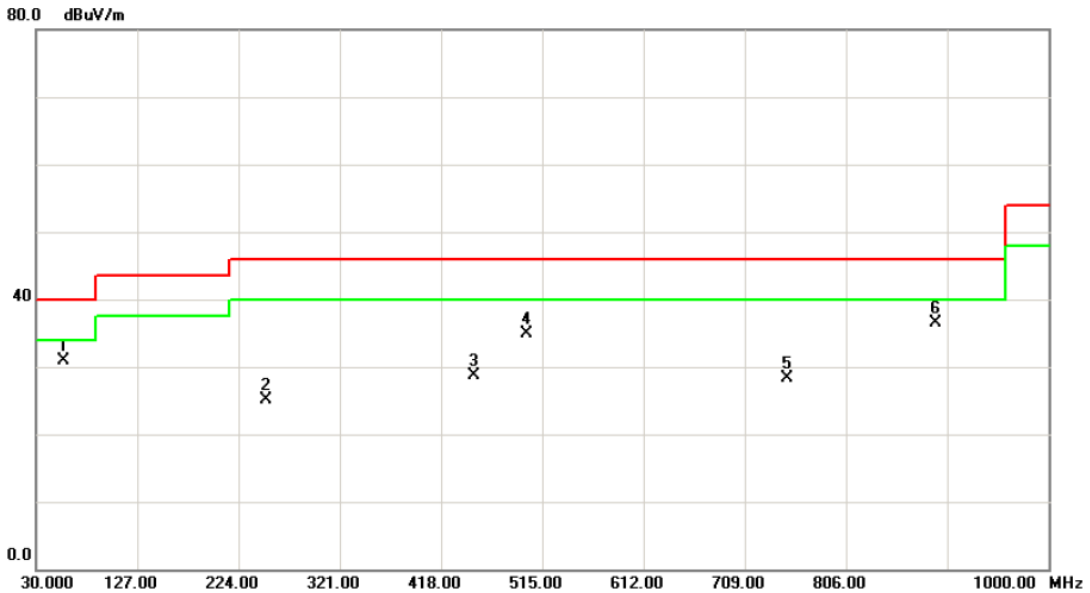


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	57.97	-21.78	36.19	40.00	-3.81	peak	
2		141.5500	47.53	-20.15	27.38	43.50	-16.12	peak	
3		375.3200	42.74	-15.34	27.40	46.00	-18.60	peak	
4		500.4500	48.06	-15.33	32.73	46.00	-13.27	peak	
5		749.7400	32.81	-7.16	25.65	46.00	-20.35	peak	
6		936.9500	36.51	-5.78	30.73	46.00	-15.27	peak	



Test Mode: TX B MODE CHANNEL 11

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	56.1900	53.24	-22.33	30.91	40.00	-9.09	peak	
2	250.1900	47.63	-22.49	25.14	46.00	-20.86	peak	
3	450.0100	42.40	-13.78	28.62	46.00	-17.38	peak	
4	500.4500	48.85	-13.96	34.89	46.00	-11.11	peak	
5	749.7400	36.56	-8.32	28.24	46.00	-17.76	peak	
6	891.3600	44.28	-7.80	36.48	46.00	-9.52	peak	

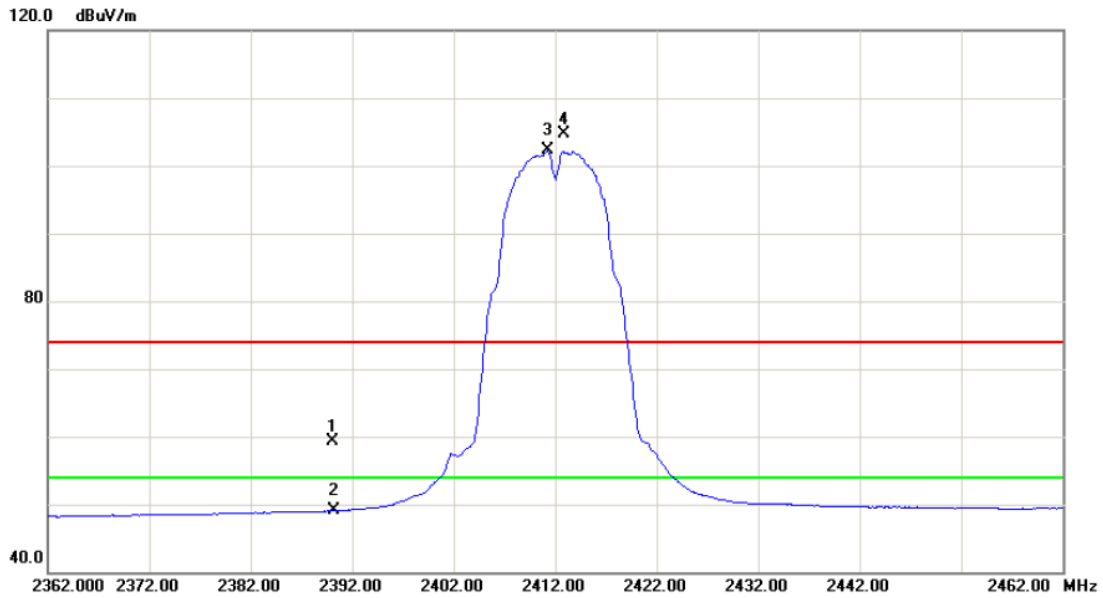


ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)



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

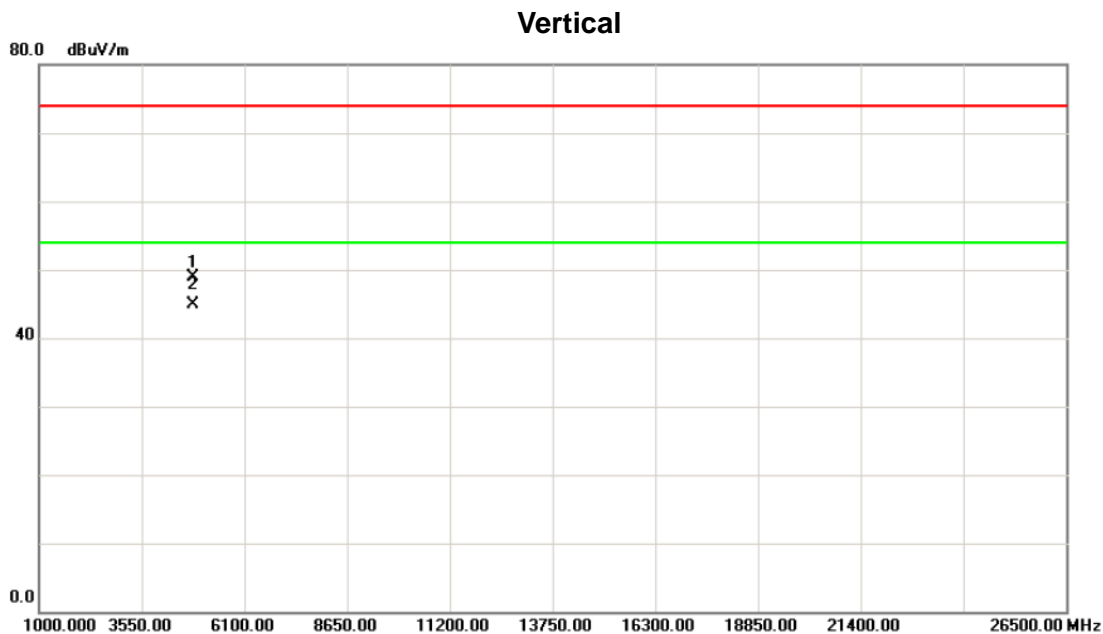
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	25.28	34.09	59.37	74.00	-14.63	peak	
2	2390.000	14.93	34.09	49.02	54.00	-4.98	AVG	
3 *	2411.200	68.08	34.16	102.24	54.00	48.24	AVG	Fundamental frequency, no limit
4 X	2412.900	70.64	34.16	104.80	74.00	30.80	peak	Fundamental frequency, no limit



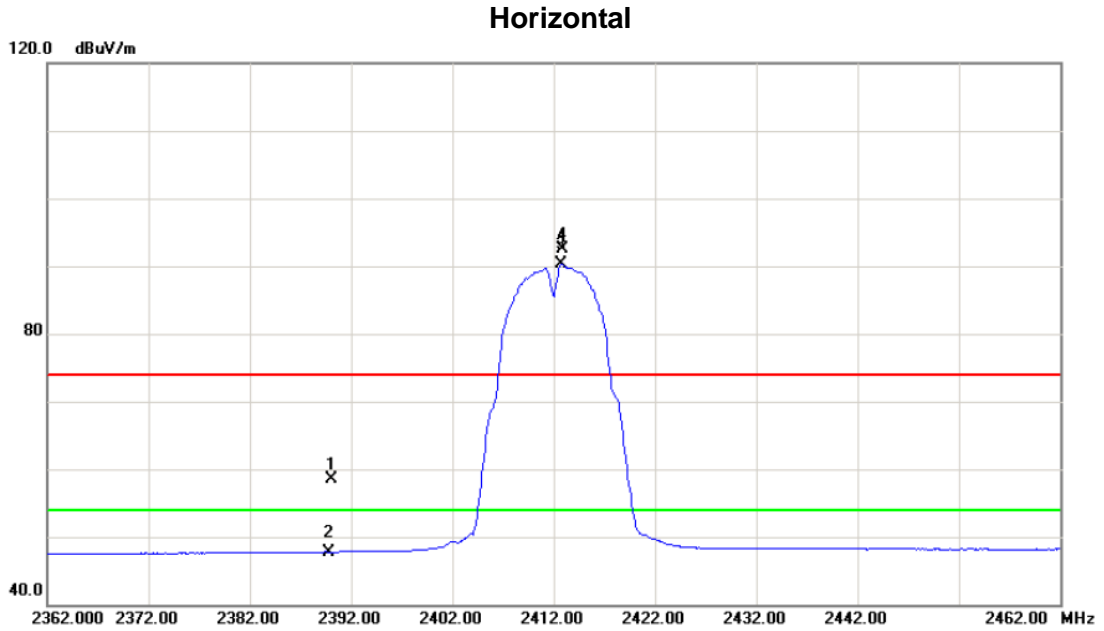
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.900	42.52	6.43	48.95	74.00	-25.05	peak	
2	*	4824.000	38.45	6.43	44.88	54.00	-9.12	AVG	



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

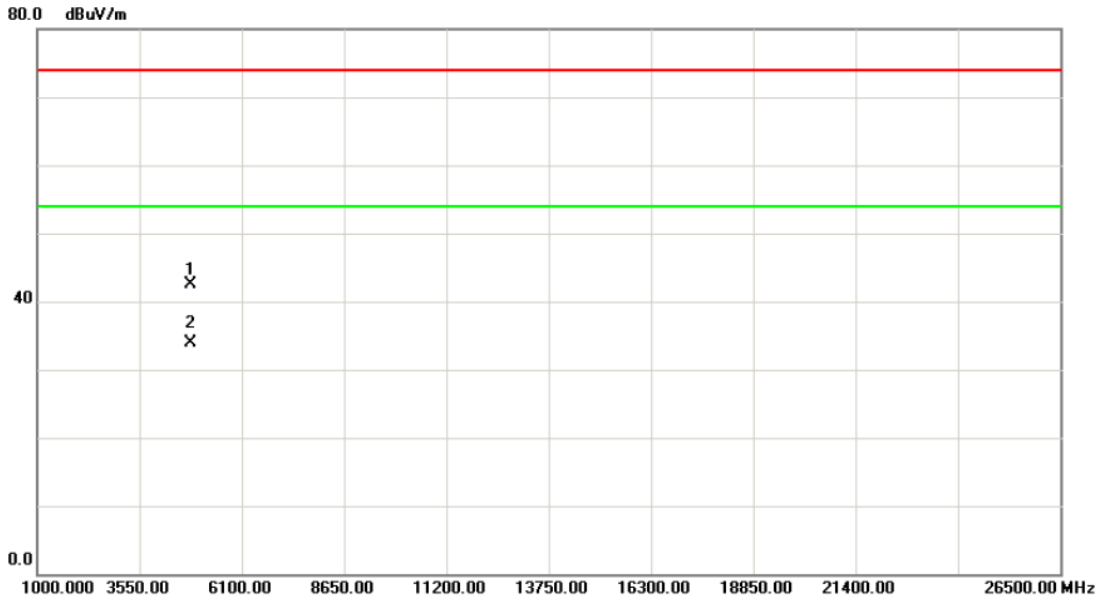


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	24.36	34.09	58.45	74.00	-15.55	peak	
2	2390.000	13.66	34.09	47.75	54.00	-6.25	AVG	
3 *	2412.700	56.13	34.16	90.29	54.00	36.29	AVG	Fundamental frequency, no limit
4 X	2412.900	58.38	34.16	92.54	74.00	18.54	peak	Fundamental frequency, no limit



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

Horizontal

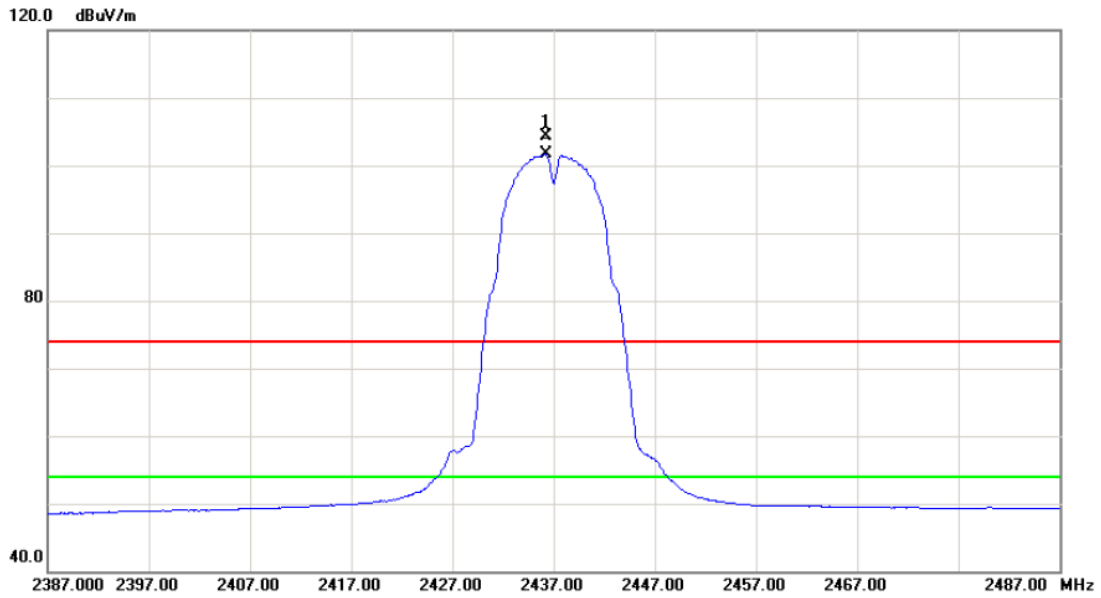


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.050	36.17	6.43	42.60	74.00	-31.40	peak	
2	*	4824.050	27.50	6.43	33.93	54.00	-20.07	AVG	



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

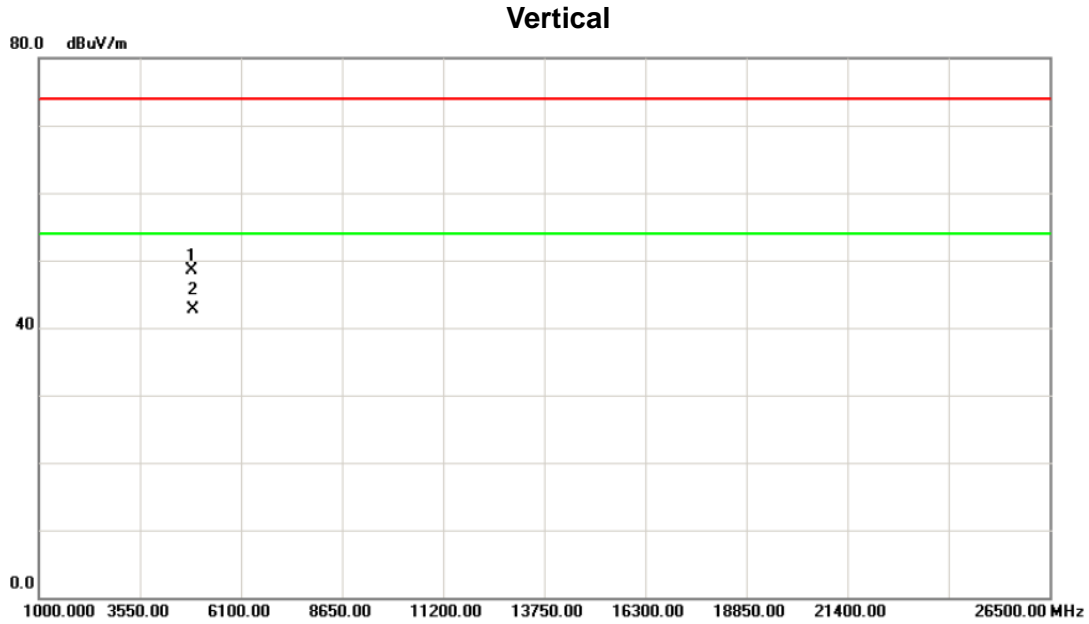
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2436.200	69.98	34.23	104.21	74.00	30.21	peak	Fundamental frequency, no limit
2	*	2436.200	67.51	34.23	101.74	54.00	47.74	AVG	Fundamental frequency, no limit



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

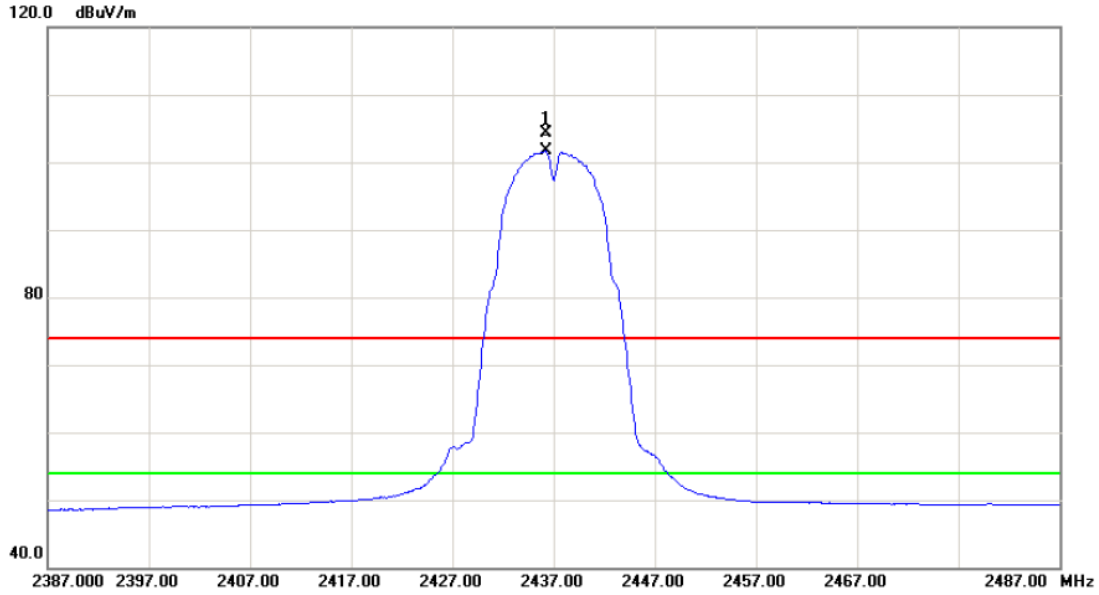


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.030	41.99	6.58	48.57	74.00	-25.43	peak	
2 *	4874.030	36.21	6.58	42.79	54.00	-11.21	AVG	



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

Horizontal

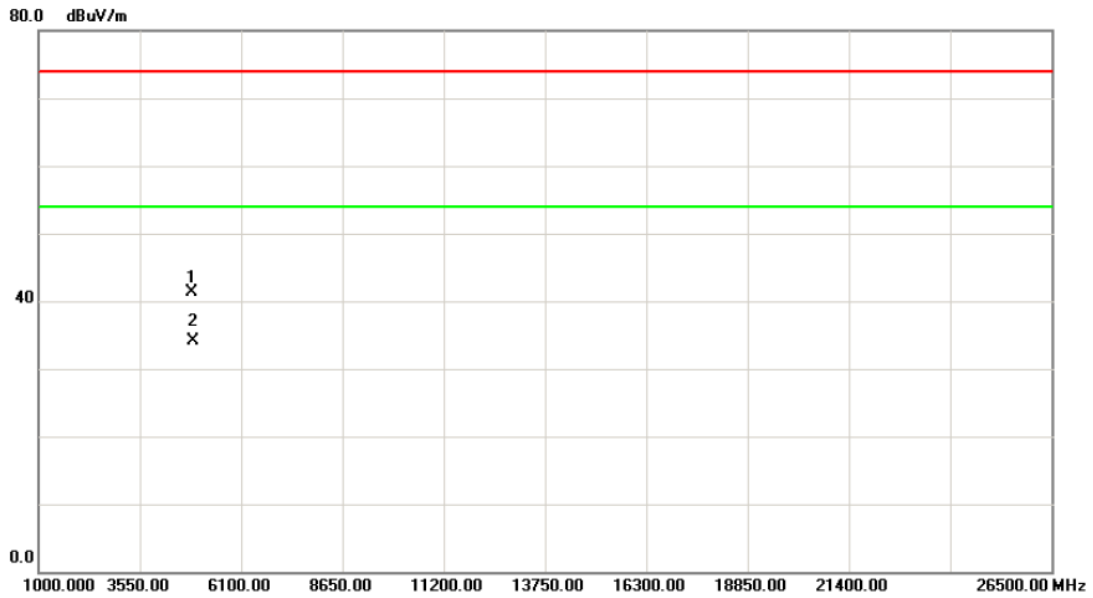


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2436.200	69.98	34.23	104.21	74.00	30.21	peak	Fundamental frequency, no limit
2	*	2436.200	67.51	34.23	101.74	54.00	47.74	AVG	Fundamental frequency, no limit



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

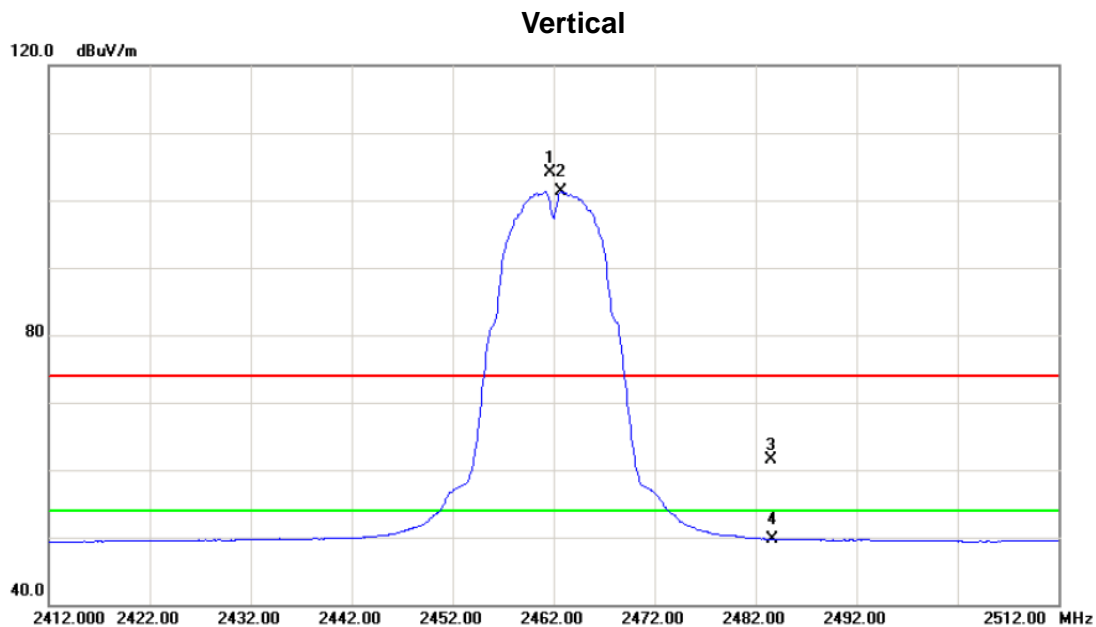
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.920	34.63	6.58	41.21	74.00	-32.79	peak	
2	*	4873.920	27.43	6.58	34.01	54.00	-19.99	AVG	



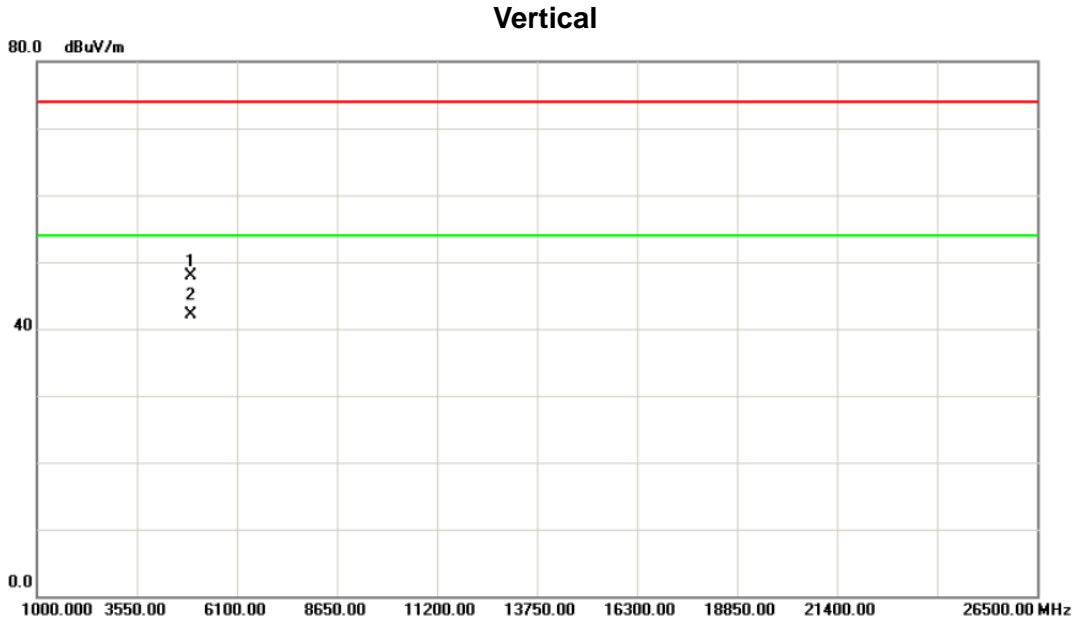
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2461.600	69.80	34.31	104.11	74.00	30.11	peak	Fundamental frequency, no limit
2	*	2462.700	67.04	34.31	101.35	54.00	47.35	AVG	Fundamental frequency, no limit
3		2483.500	27.17	34.37	61.54	74.00	-12.46	peak	
4		2483.500	15.38	34.37	49.75	54.00	-4.25	AVG	



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

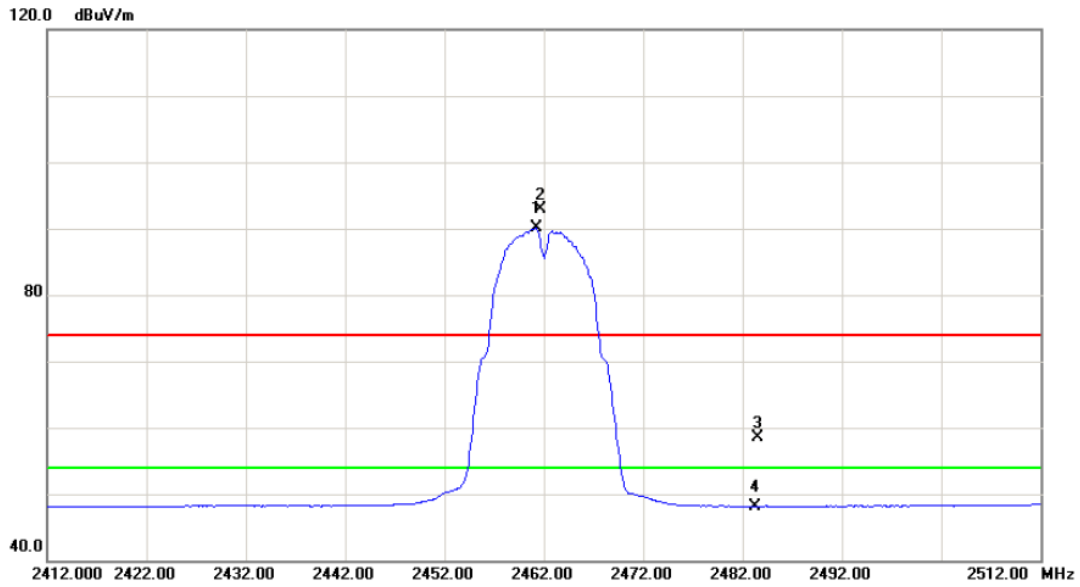


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.170	41.13	6.72	47.85	74.00	-26.15	peak	
2 *	4924.170	35.37	6.72	42.09	54.00	-11.91	AVG	



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

Horizontal

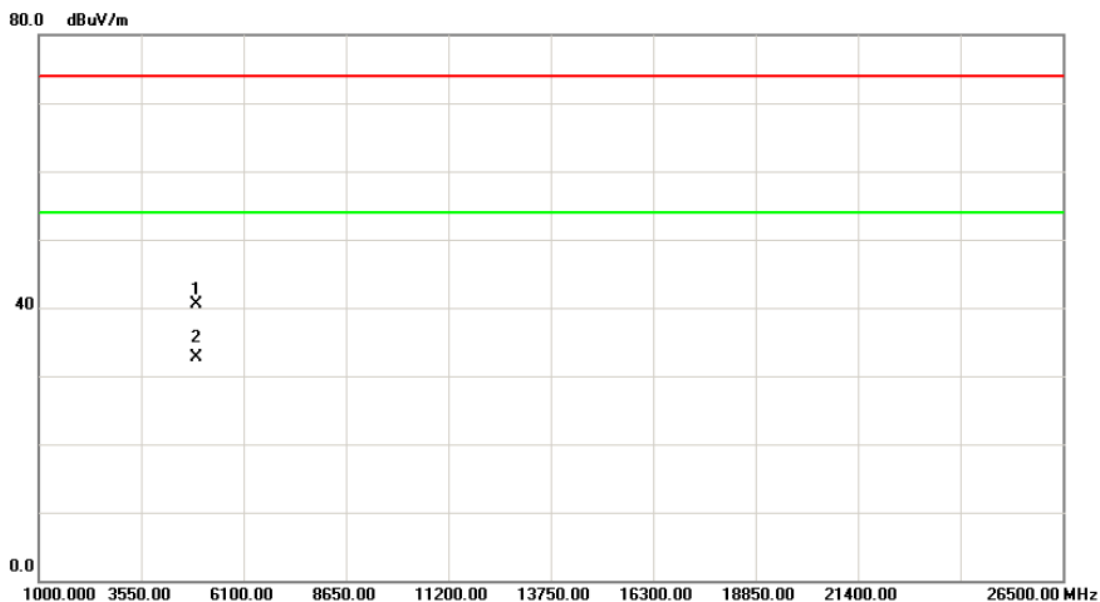


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2461.200	55.87	34.31	90.18	54.00	36.18	AVG	Fundamental frequency, no limit
2	X	2461.600	58.62	34.31	92.93	74.00	18.93	peak	Fundamental frequency, no limit
3		2483.500	24.16	34.37	58.53	74.00	-15.47	peak	
4		2483.500	13.79	34.37	48.16	54.00	-5.84	AVG	



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

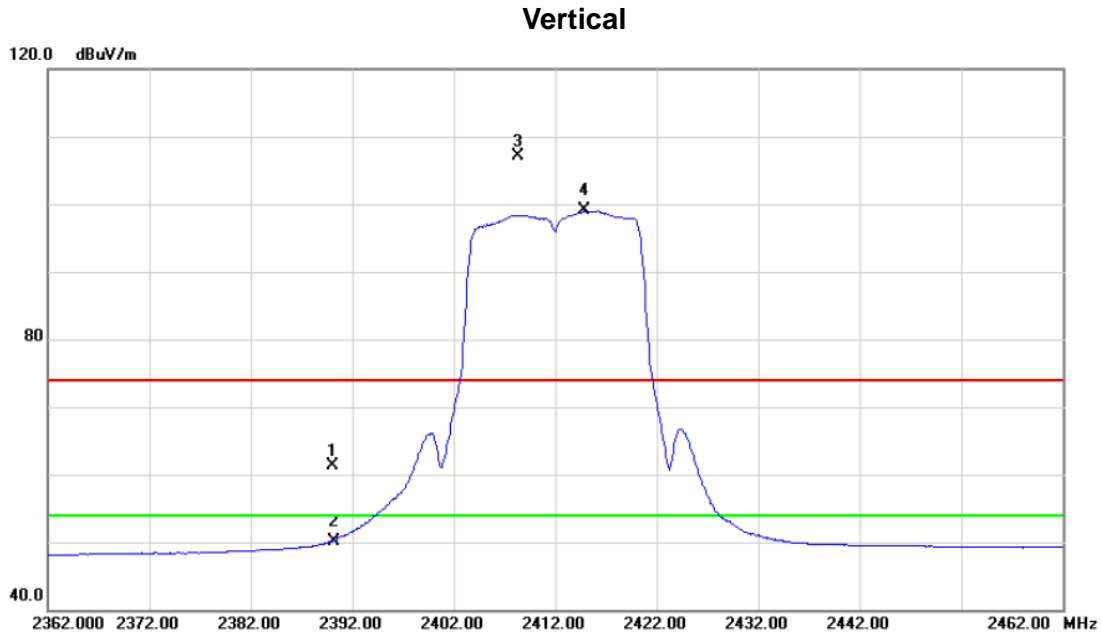
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4923.870	33.85	6.72	40.57	74.00	-33.43	peak	
2	*	4923.870	26.07	6.72	32.79	54.00	-21.21	AVG	



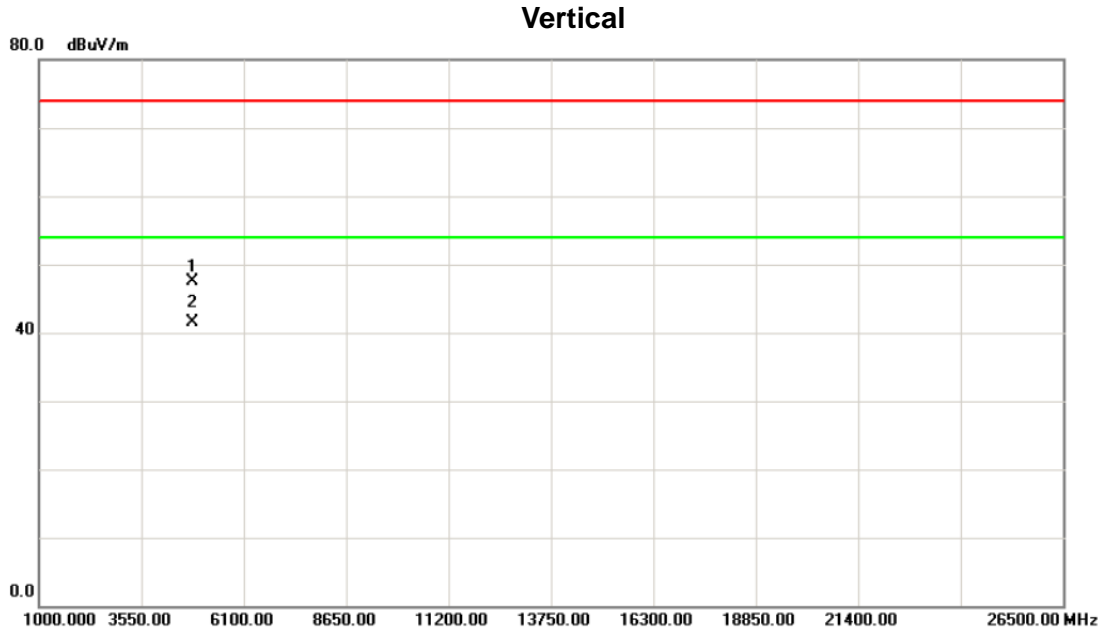
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	27.30	34.09	61.39	74.00	-12.61	peak	
2	2390.000	16.03	34.09	50.12	54.00	-3.88	AVG	
3 X	2408.300	73.06	34.14	107.20	74.00	33.20	peak	Fundamental frequency, no limit
4 *	2414.800	64.85	34.16	99.01	54.00	45.01	AVG	Fundamental frequency, no limit



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

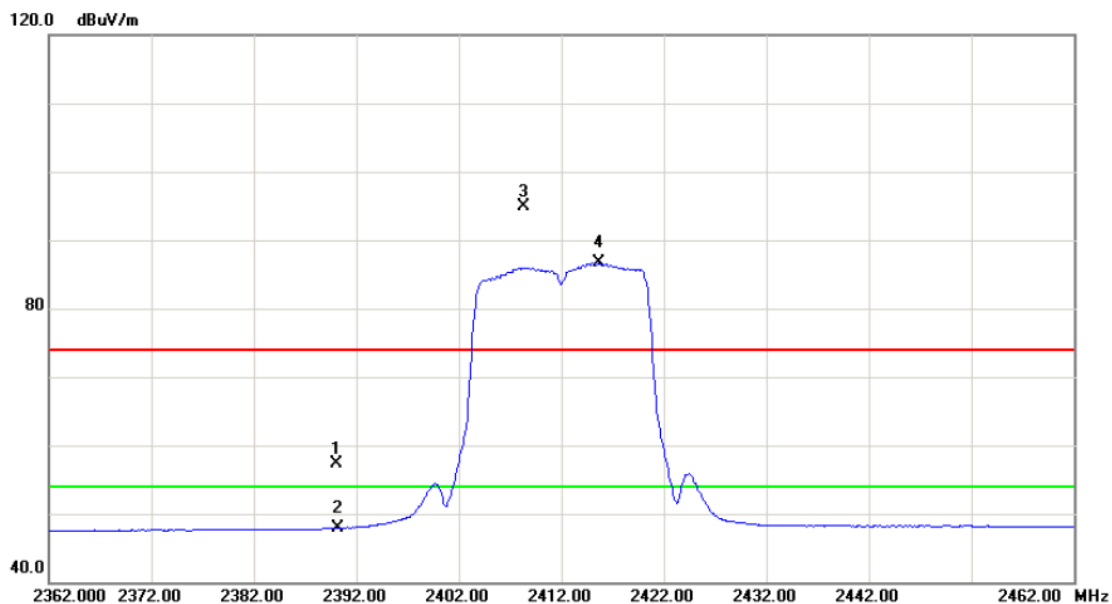


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.310	41.11	6.43	47.54	74.00	-26.46	peak	
2	*	4824.310	35.02	6.43	41.45	54.00	-12.55	AVG	



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

Horizontal

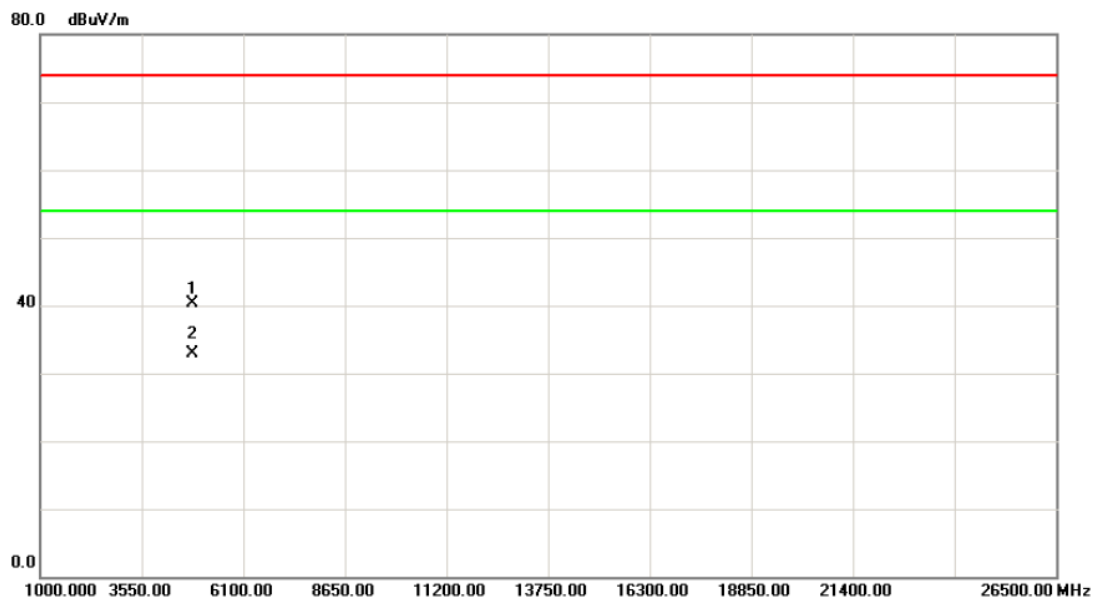


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	23.24	34.09	57.33	74.00	-16.67	peak	
2	2390.000	13.76	34.09	47.85	54.00	-6.15	AVG	
3 X	2408.300	60.73	34.14	94.87	74.00	20.87	peak	Fundamental frequency, no limit
4 *	2415.600	52.47	34.16	86.63	54.00	32.63	AVG	Fundamental frequency, no limit



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

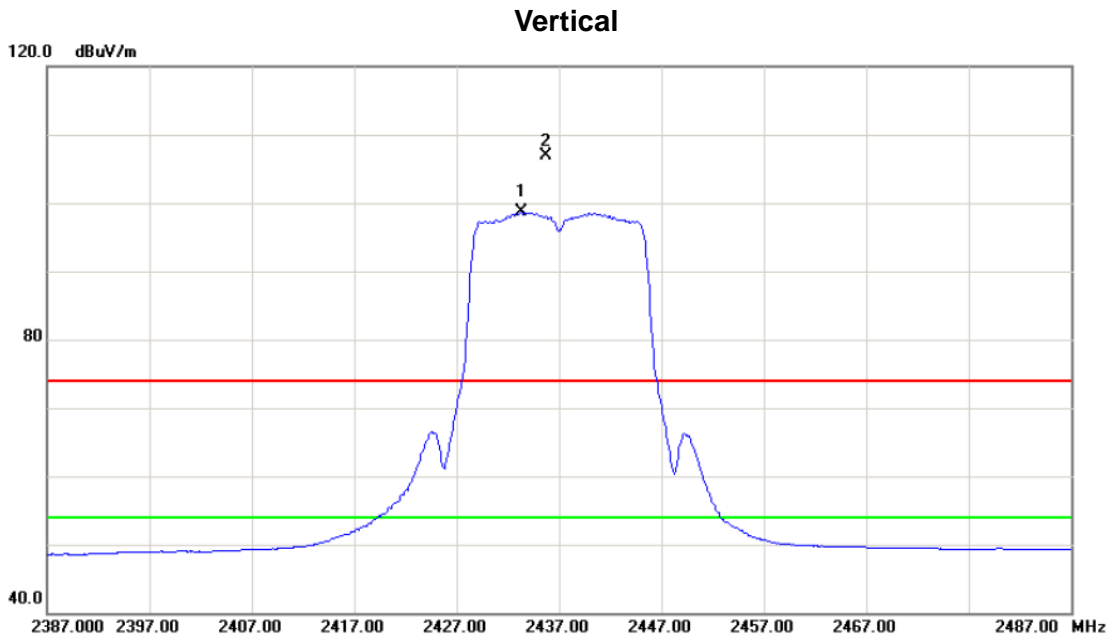
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.930	33.81	6.43	40.24	74.00	-33.76	peak	
2 *	4823.930	26.53	6.43	32.96	54.00	-21.04	AVG	



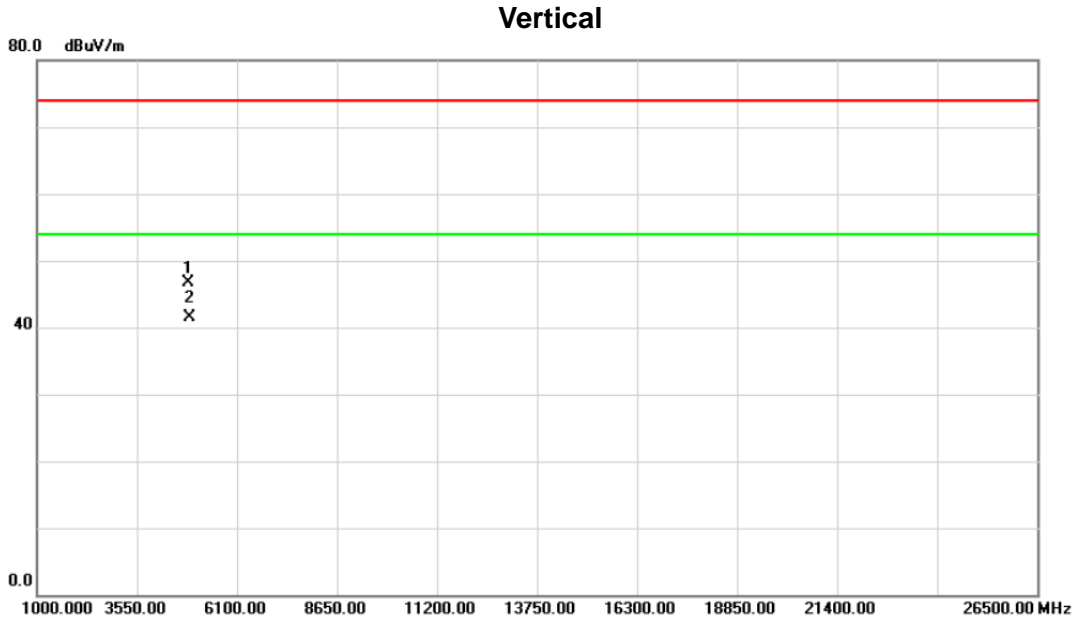
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2433.300	64.40	34.22	98.62	54.00	44.62	AVG	Fundamental frequency, no limit
2	X	2435.700	72.67	34.23	106.90	74.00	32.90	peak	Fundamental frequency, no limit



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

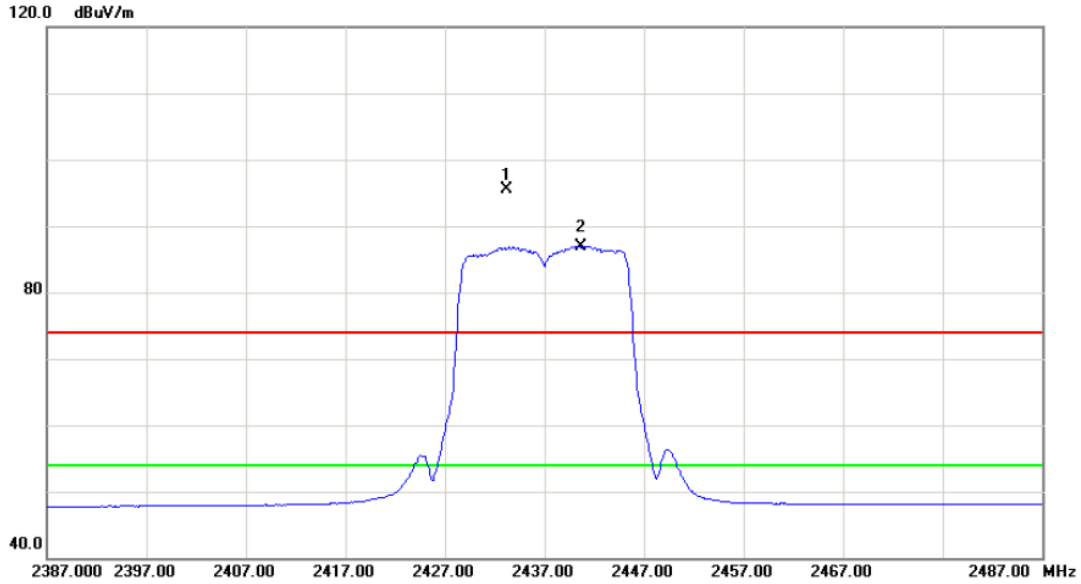


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.130	40.12	6.58	46.70	74.00	-27.30	peak	
2 *	4874.130	35.01	6.58	41.59	54.00	-12.41	AVG	



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

Horizontal

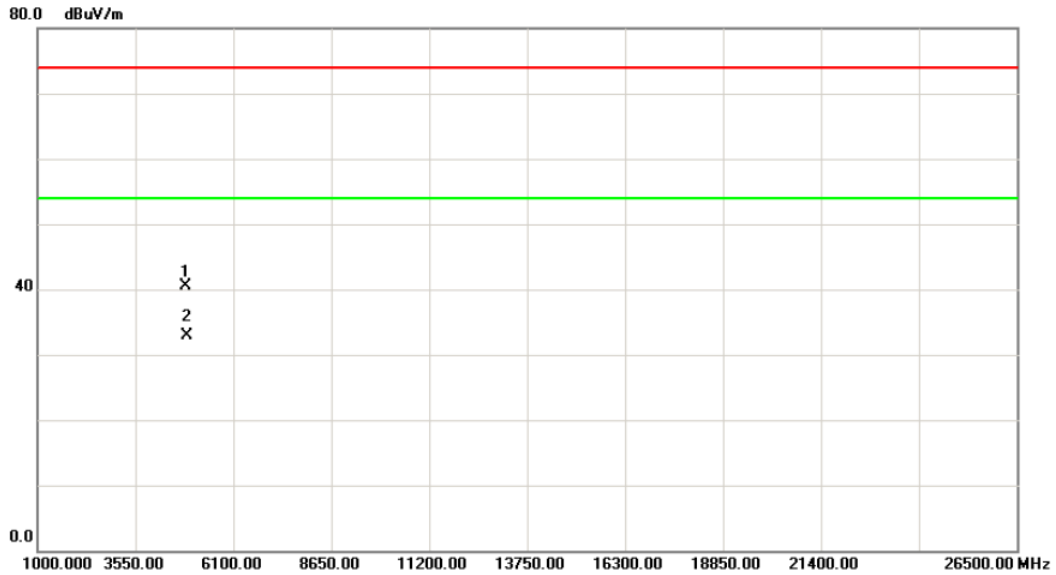


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 X	2433.200	61.29	34.22	95.51	74.00	21.51	peak	Fundamental frequency, no limit
2 *	2440.600	52.74	34.24	86.98	54.00	32.98	AVG	Fundamental frequency, no limit



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

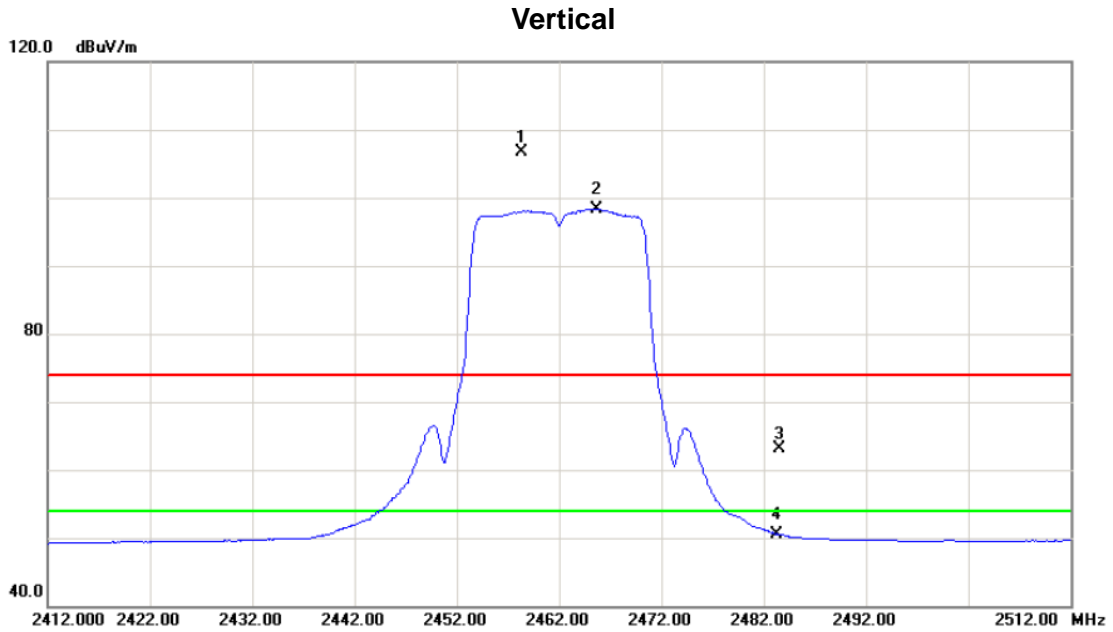
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.820	33.91	6.58	40.49	74.00	-33.51	peak	
2 *	4873.820	26.23	6.58	32.81	54.00	-21.19	AVG	



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

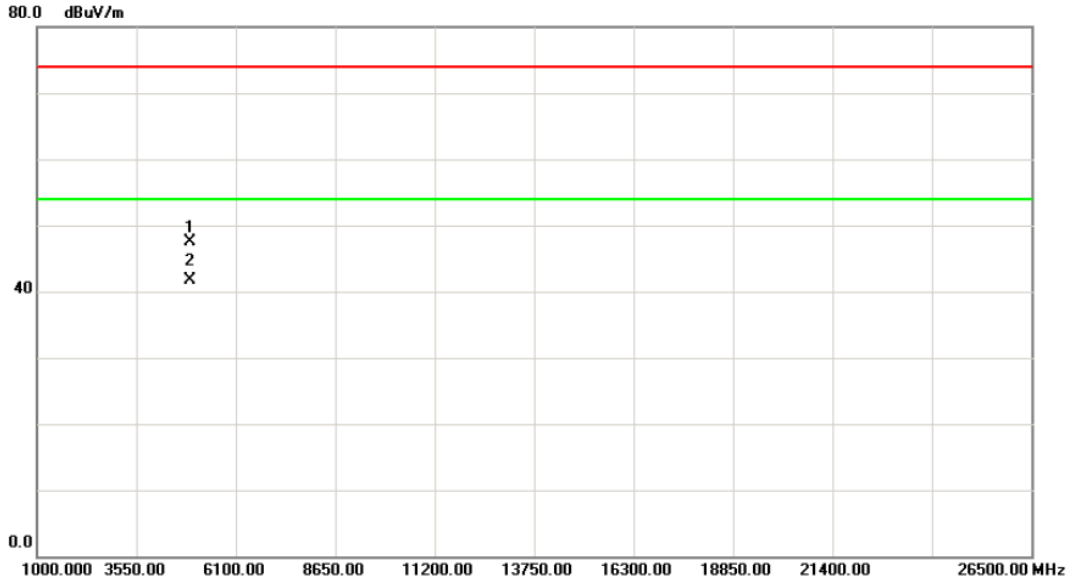


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2458.300	72.49	34.29	106.78	74.00	32.78	peak	Fundamental frequency, no limit
2	*	2465.600	64.03	34.31	98.34	54.00	44.34	AVG	Fundamental frequency, no limit
3		2483.500	28.65	34.37	63.02	74.00	-10.98	peak	
4		2483.500	16.15	34.37	50.52	54.00	-3.48	AVG	



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

Vertical

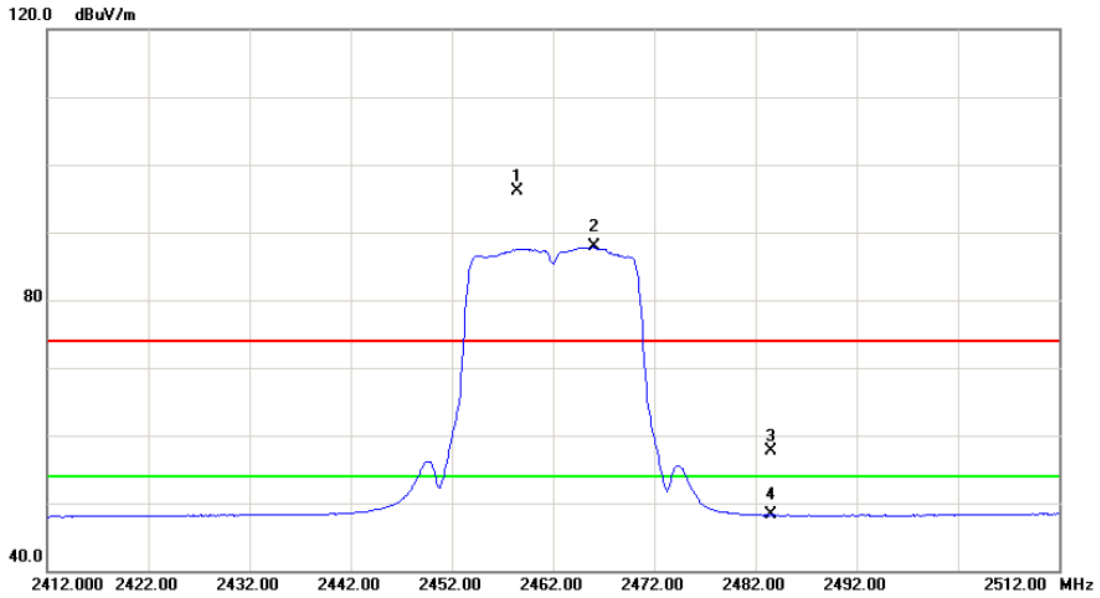


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.780	40.81	6.72	47.53	74.00	-26.47	peak	
2 *	4923.780	35.05	6.72	41.77	54.00	-12.23	AVG	



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

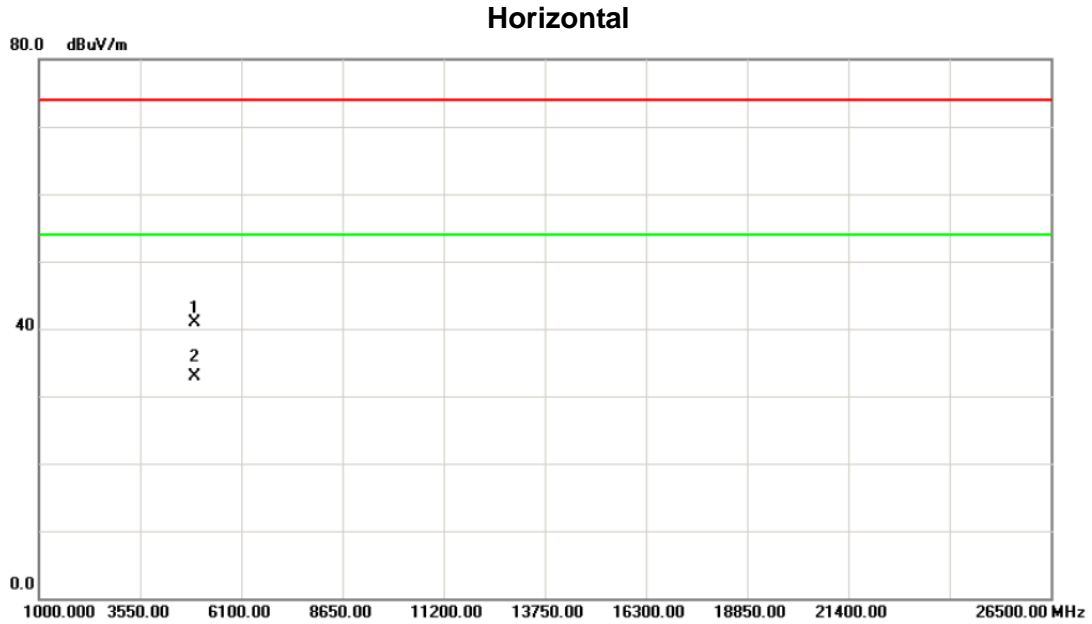
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2458.400	61.78	34.29	96.07	74.00	22.07	peak	Fundamental frequency, no limit
2	*	2466.000	53.54	34.32	87.86	54.00	33.86	AVG	Fundamental frequency, no limit
3		2483.500	23.38	34.37	57.75	74.00	-16.25	peak	
4		2483.500	13.85	34.37	48.22	54.00	-5.78	AVG	



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

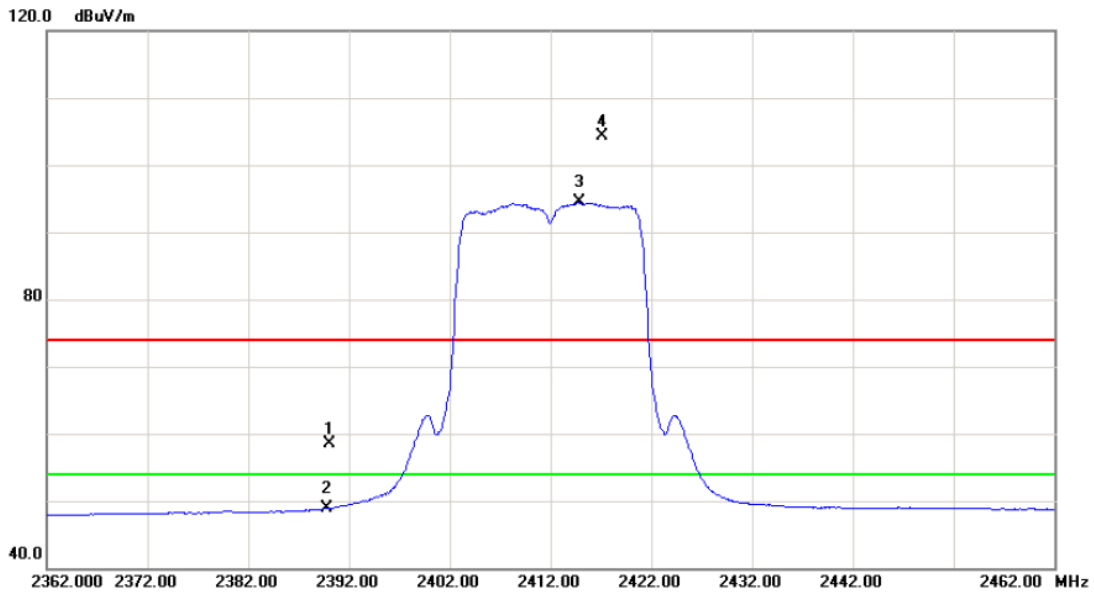


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.170	34.21	6.72	40.93	74.00	-33.07	peak	
2 *	4924.170	26.27	6.72	32.99	54.00	-21.01	AVG	



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

Vertical

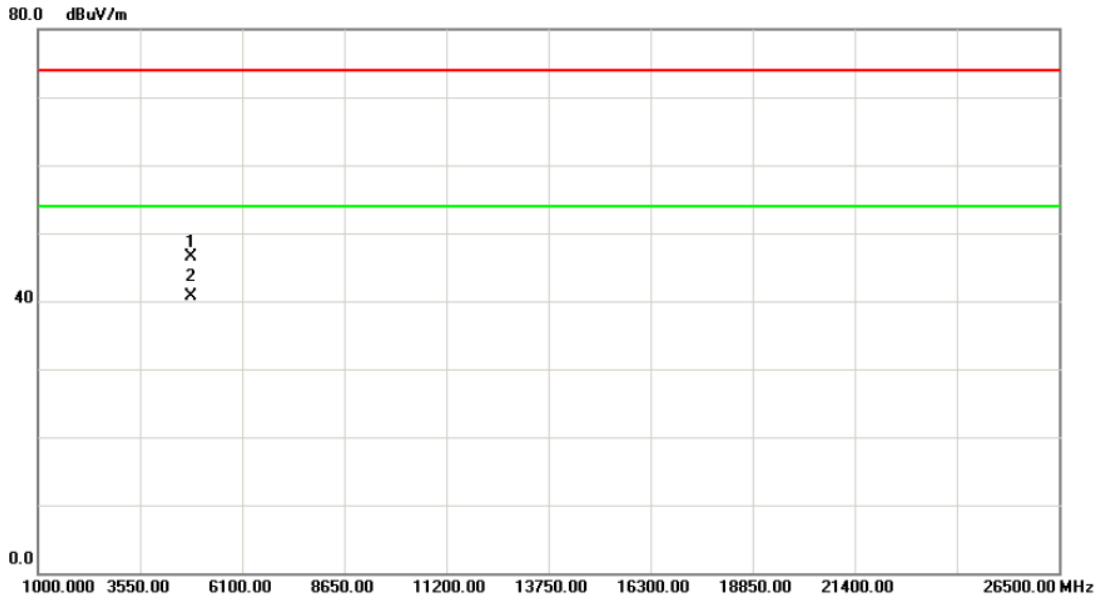


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.32	34.09	58.41	74.00	-15.59	peak	
2		2390.000	14.81	34.09	48.90	54.00	-5.10	AVG	
3	*	2414.800	60.27	34.16	94.43	54.00	40.43	AVG	Fundamental frequency, no limit
4	X	2417.100	70.09	34.17	104.26	74.00	30.26	peak	Fundamental frequency, no limit



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

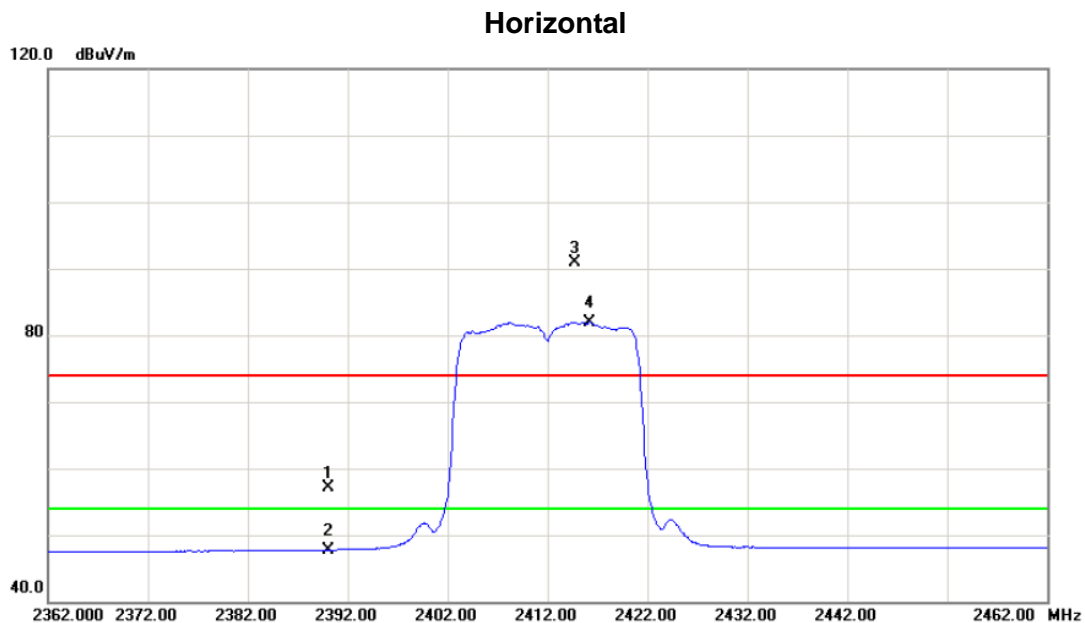
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.170	40.13	6.43	46.56	74.00	-27.44	peak	
2 *	4824.170	34.31	6.43	40.74	54.00	-13.26	AVG	



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

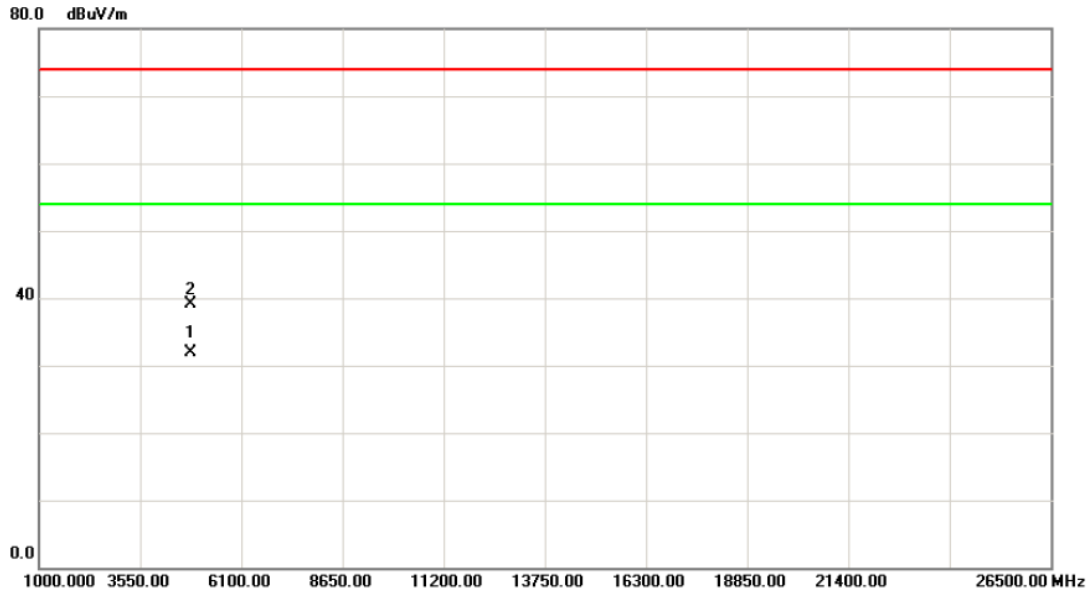


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	22.96	34.09	57.05	74.00	-16.95	peak	
2	2390.000	13.70	34.09	47.79	54.00	-6.21	AVG	
3 X	2414.700	56.81	34.16	90.97	74.00	16.97	peak	Fundamental frequency, no limit
4 *	2416.200	47.83	34.17	82.00	54.00	28.00	AVG	Fundamental frequency, no limit



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

Horizontal

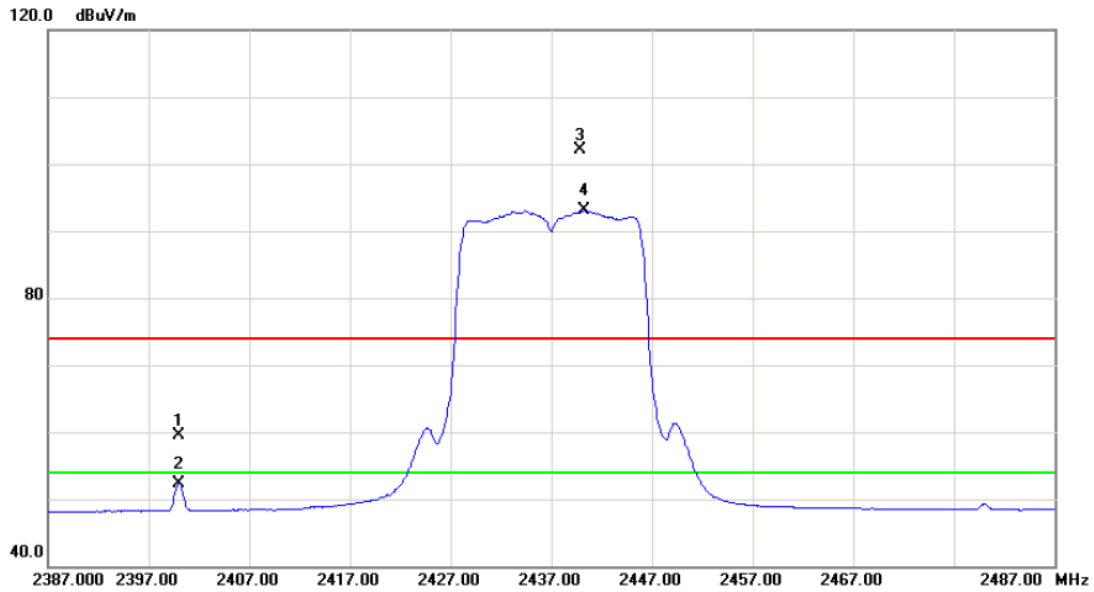


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4823.760	25.52	6.43	31.95	54.00	-22.05	AVG	
2		4824.760	32.73	6.43	39.16	74.00	-34.84	peak	



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

Vertical

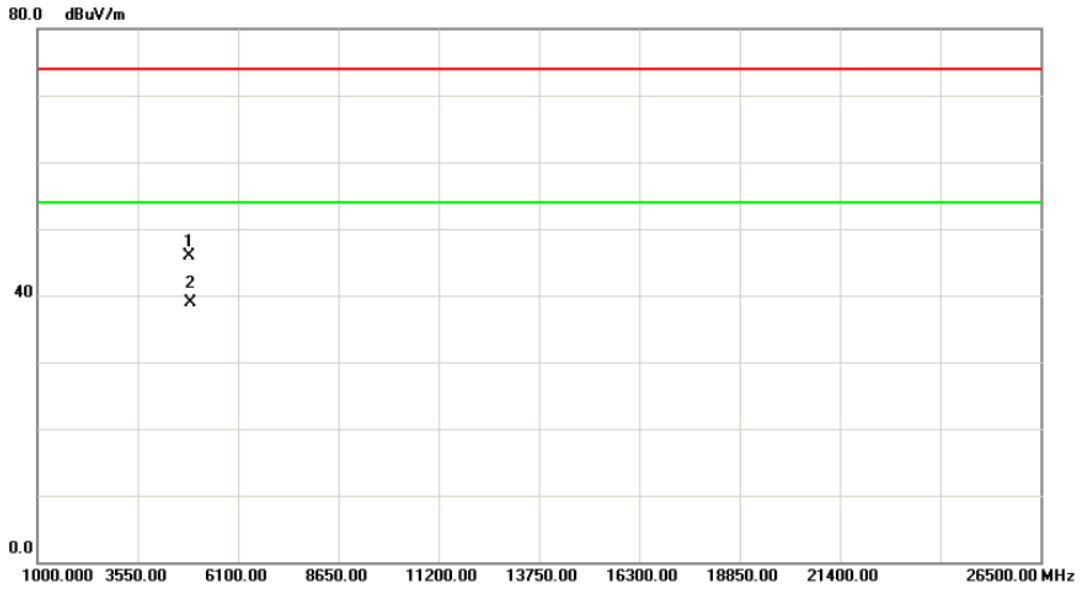


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2400.000	25.48	34.12	59.60	74.00	-14.40	peak	
2		2400.000	18.18	34.12	52.30	54.00	-1.70	AVG	
3	X	2439.800	67.91	34.24	102.15	74.00	28.15	peak	Fundamental frequency, no limit
4	*	2440.300	58.90	34.24	93.14	54.00	39.14	AVG	Fundamental frequency, no limit



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

Vertical

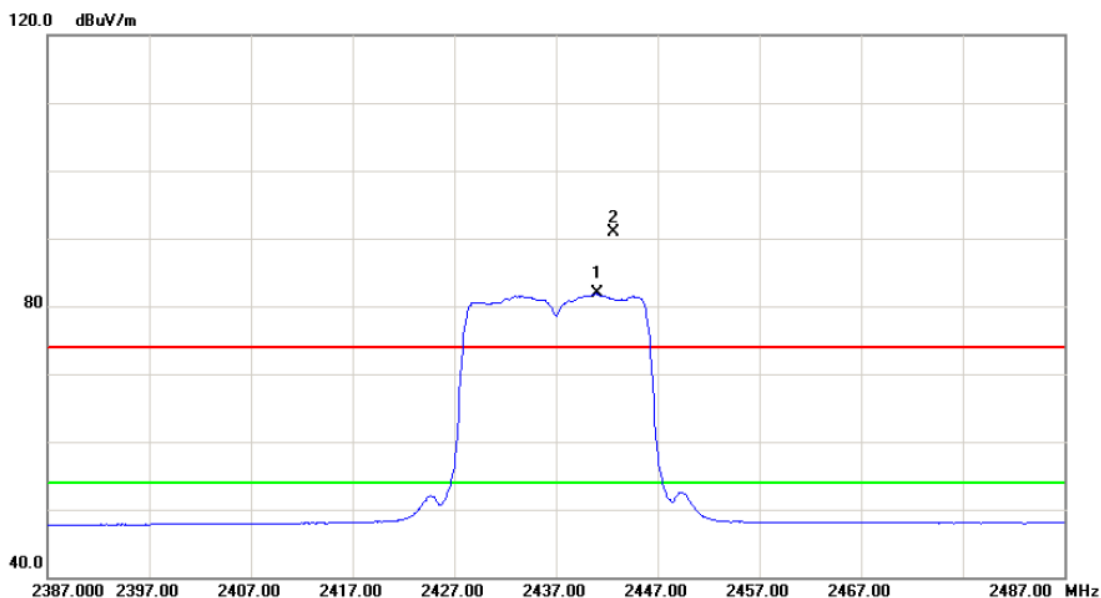


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.900	39.36	6.58	45.94	74.00	-28.06	peak	
2	*	4873.900	32.31	6.58	38.89	54.00	-15.11	AVG	



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

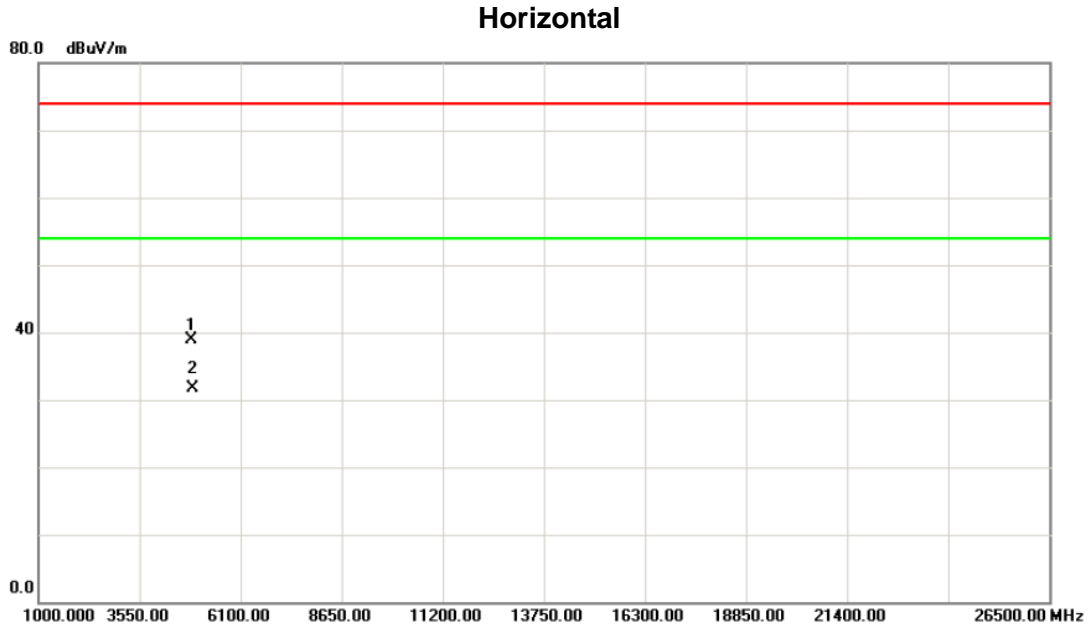
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2441.000	47.60	34.25	81.85	54.00	27.85	AVG	Fundamental frequency, no limit
2	X	2442.600	56.61	34.25	90.86	74.00	16.86	peak	Fundamental frequency, no limit



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

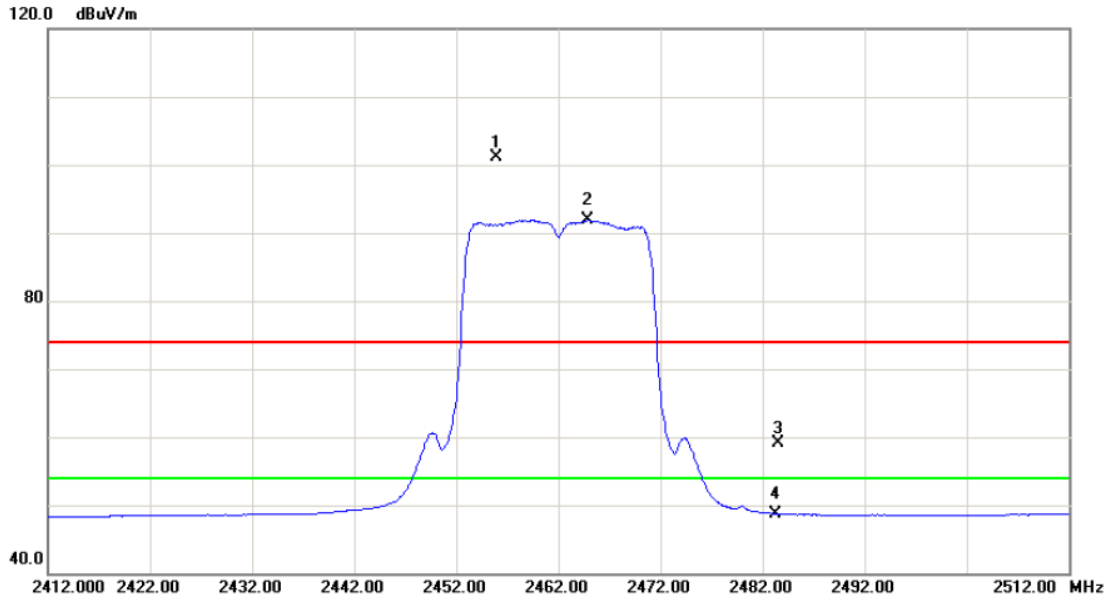


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.930	32.37	6.58	38.95	74.00	-35.05	peak	
2 *	4873.930	25.13	6.58	31.71	54.00	-22.29	AVG	



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

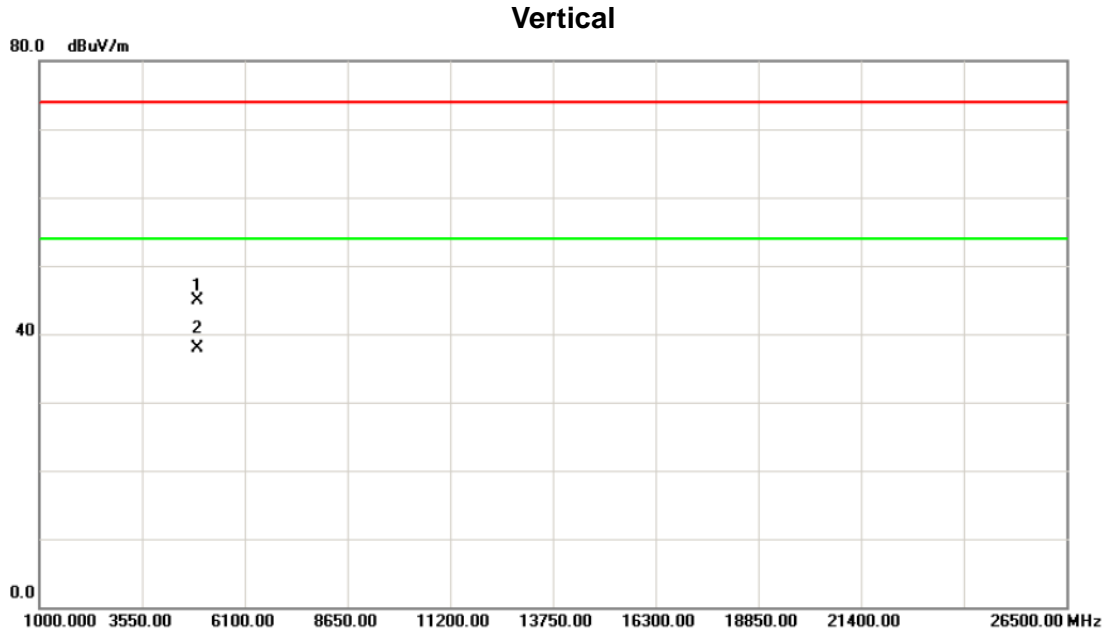
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2455.900	66.76	34.29	101.05	74.00	27.05	peak	Fundamental frequency, no limit
2	*	2464.800	57.59	34.31	91.90	54.00	37.90	AVG	Fundamental frequency, no limit
3		2483.500	24.67	34.37	59.04	74.00	-14.96	peak	
4		2483.500	14.41	34.37	48.78	54.00	-5.22	AVG	



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

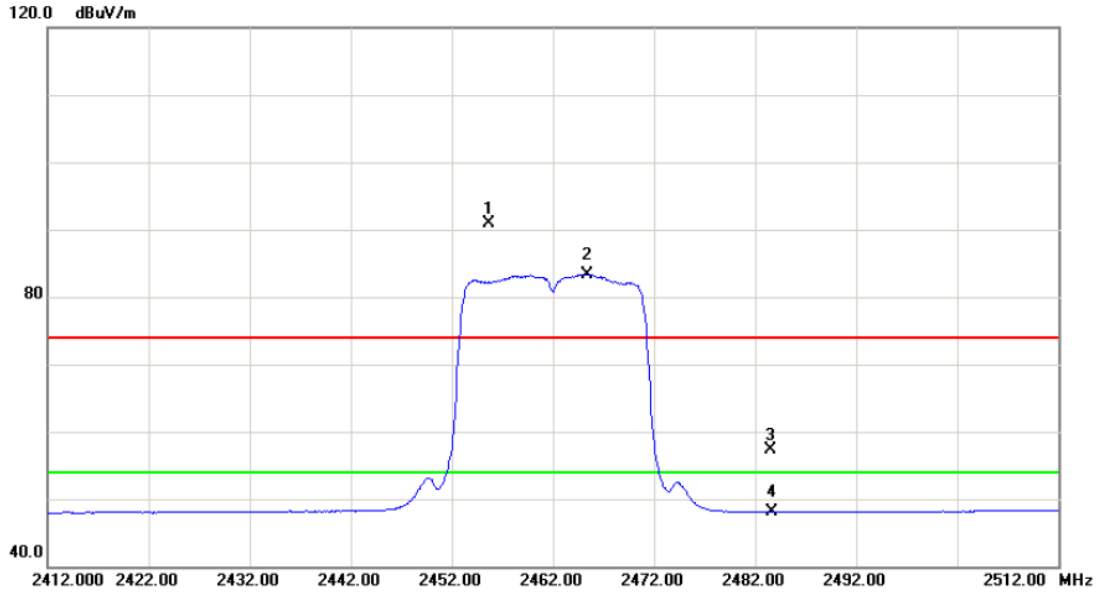


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.190	38.21	6.72	44.93	74.00	-29.07	peak	
2	*	4924.190	31.16	6.72	37.88	54.00	-16.12	AVG	



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

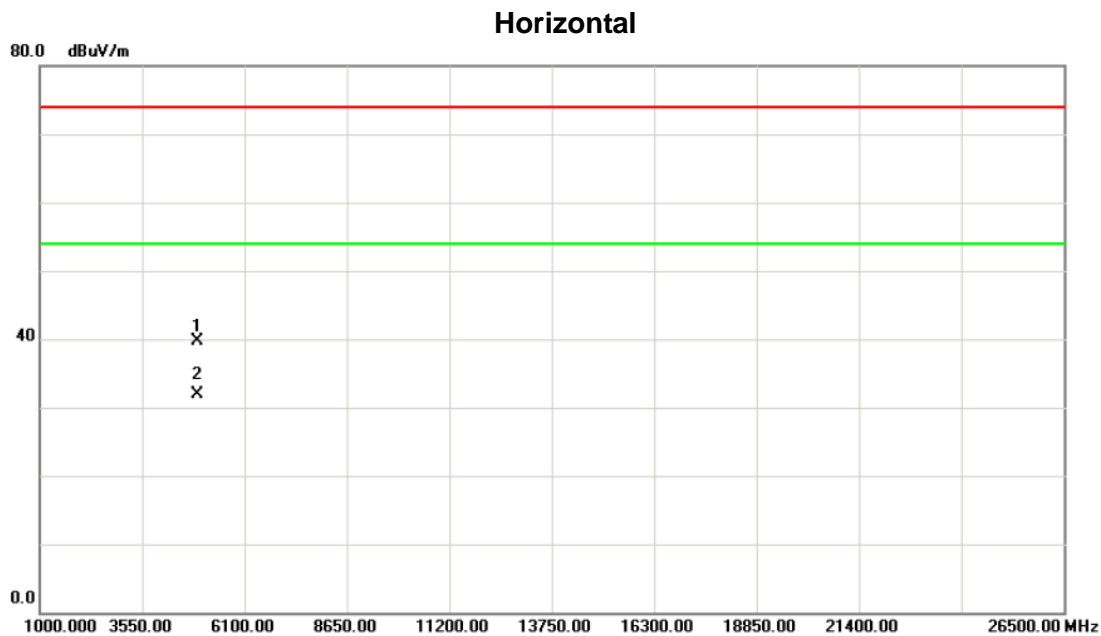
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2455.700	56.62	34.29	90.91	74.00	16.91	peak	Fundamental frequency, no limit
2	*	2465.400	49.05	34.31	83.36	54.00	29.36	AVG	Fundamental frequency, no limit
3		2483.500	22.85	34.37	57.22	74.00	-16.78	peak	
4		2483.500	13.70	34.37	48.07	54.00	-5.93	AVG	



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

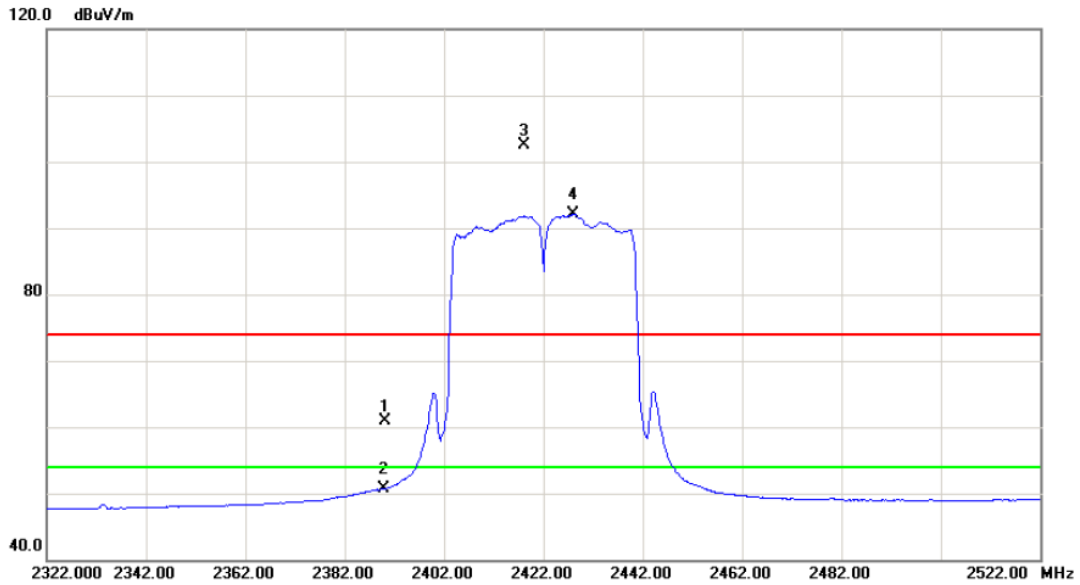


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.790	32.89	6.72	39.61	74.00	-34.39	peak	
2 *	4923.790	25.24	6.72	31.96	54.00	-22.04	AVG	



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

Vertical

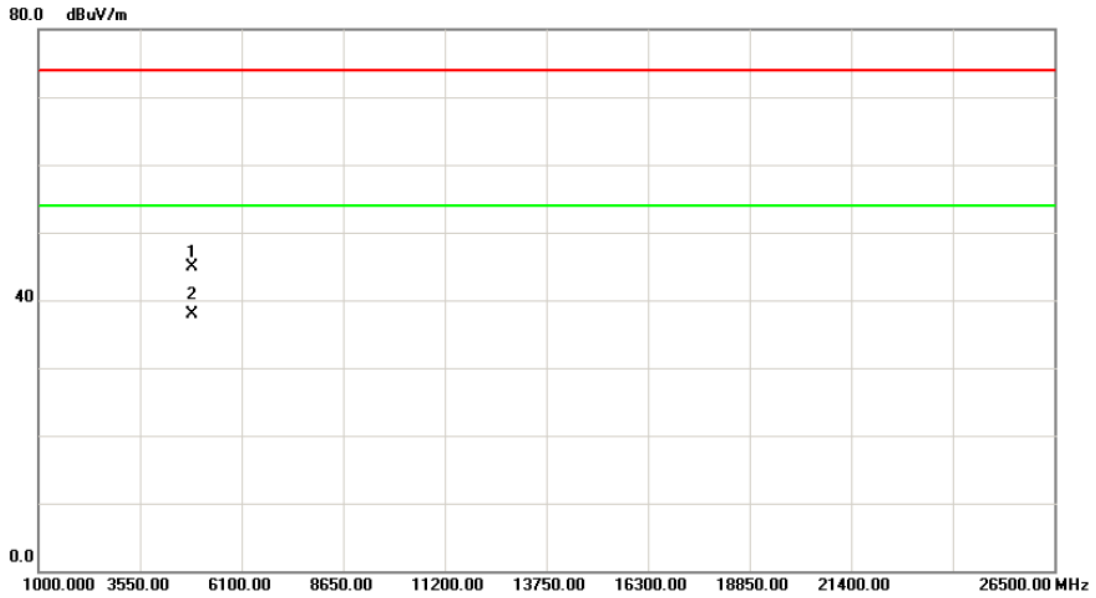


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	26.76	34.09	60.85	74.00	-13.15	peak	
2		2390.000	16.67	34.09	50.76	54.00	-3.24	AVG	
3	X	2418.200	68.32	34.18	102.50	74.00	28.50	peak	Fundamental frequency, no limit
4	*	2428.000	57.87	34.20	92.07	54.00	38.07	AVG	Fundamental frequency, no limit



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

Vertical

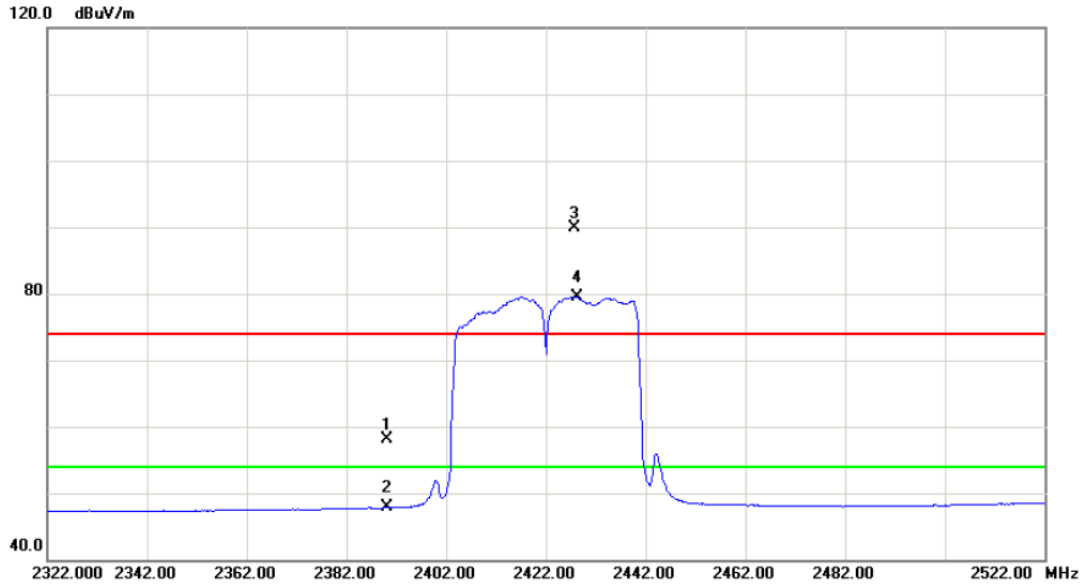


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.860	38.42	6.50	44.92	74.00	-29.08	peak	
2 *	4843.860	31.36	6.50	37.86	54.00	-16.14	AVG	



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

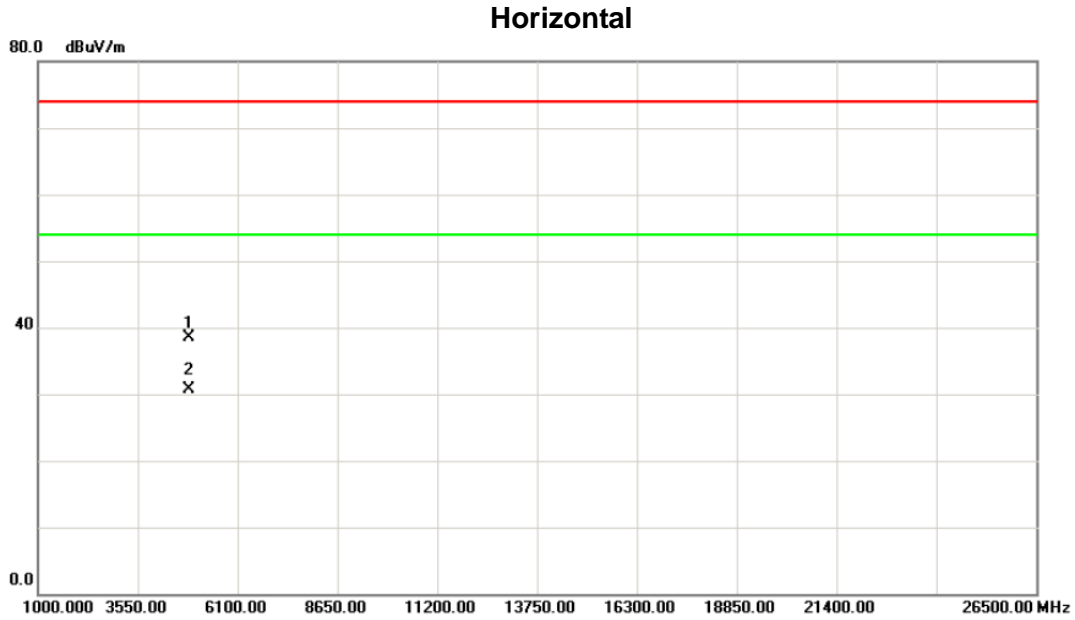
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	23.96	34.09	58.05	74.00	-15.95	peak	
2	2390.000	13.74	34.09	47.83	54.00	-6.17	AVG	
3 X	2427.600	55.78	34.20	89.98	74.00	15.98	peak	Fundamental frequency, no limit
4 *	2428.200	45.38	34.21	79.59	54.00	25.59	AVG	Fundamental frequency, no limit



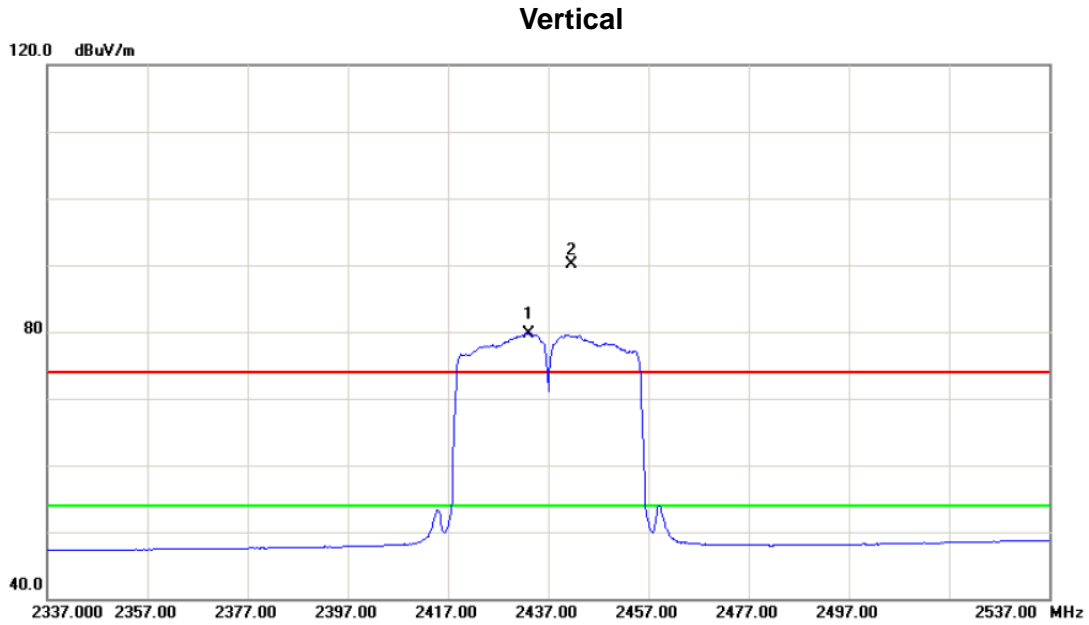
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.950	32.10	6.50	38.60	74.00	-35.40	peak	
2 *	4843.950	24.12	6.50	30.62	54.00	-23.38	AVG	



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

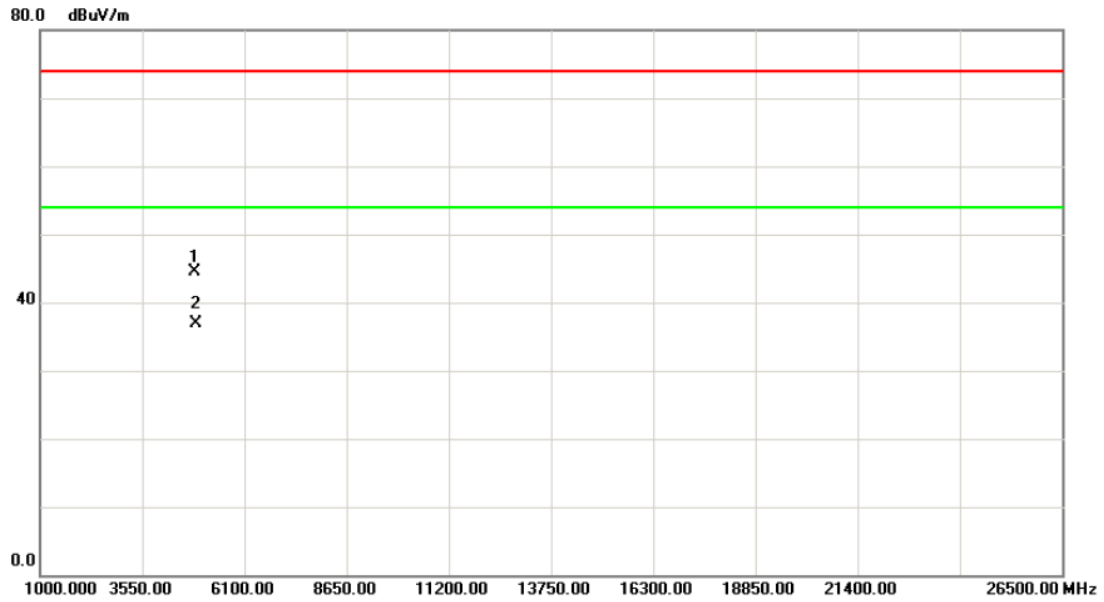


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2433.200	45.48	34.22	79.70	54.00	25.70	AVG	Fundamental frequency, no limit
2	X	2441.600	55.89	34.25	90.14	74.00	16.14	peak	Fundamental frequency, no limit



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

Vertical

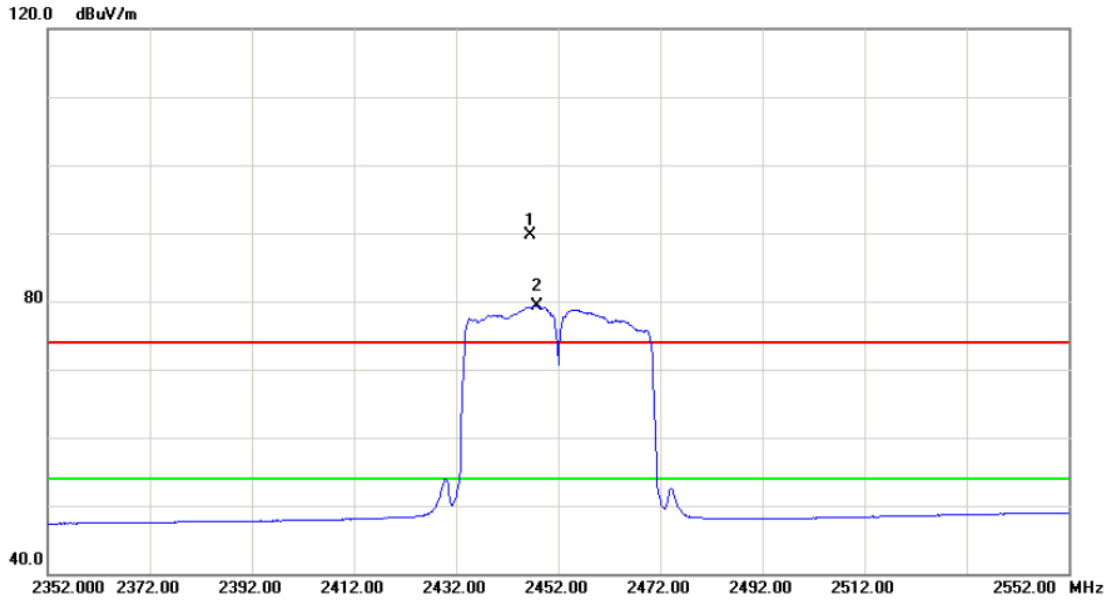


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.890	37.89	6.58	44.47	74.00	-29.53	peak	
2 *	4873.890	30.31	6.58	36.89	54.00	-17.11	AVG	



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

Horizontal

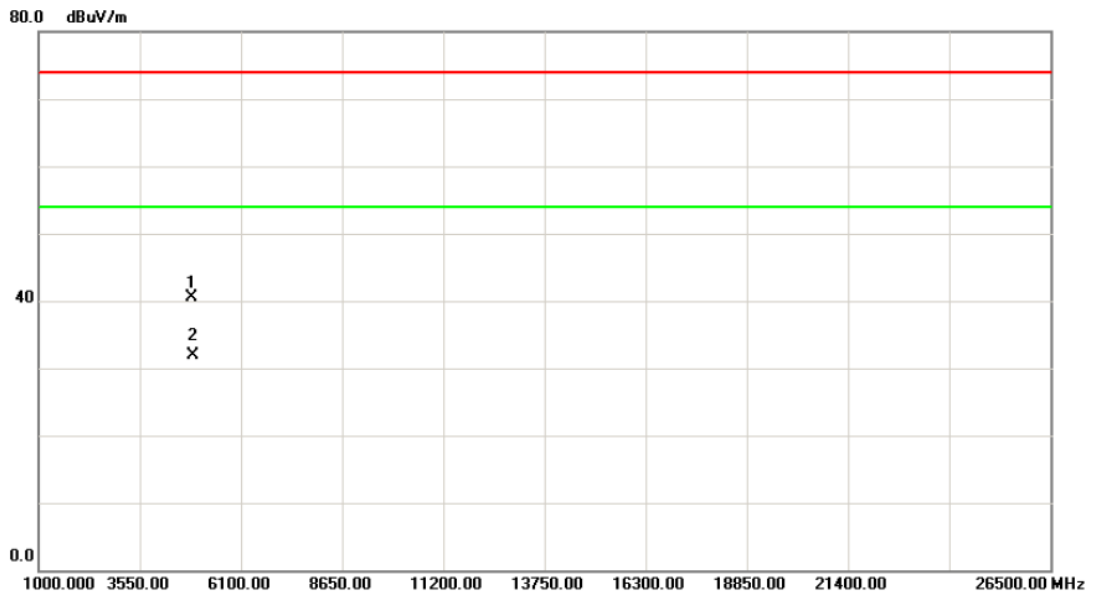


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2446.600	55.42	34.26	89.68	74.00	15.68	peak	Fundamental frequency, no limit
2	*	2447.800	45.08	34.27	79.35	54.00	25.35	AVG	Fundamental frequency, no limit



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

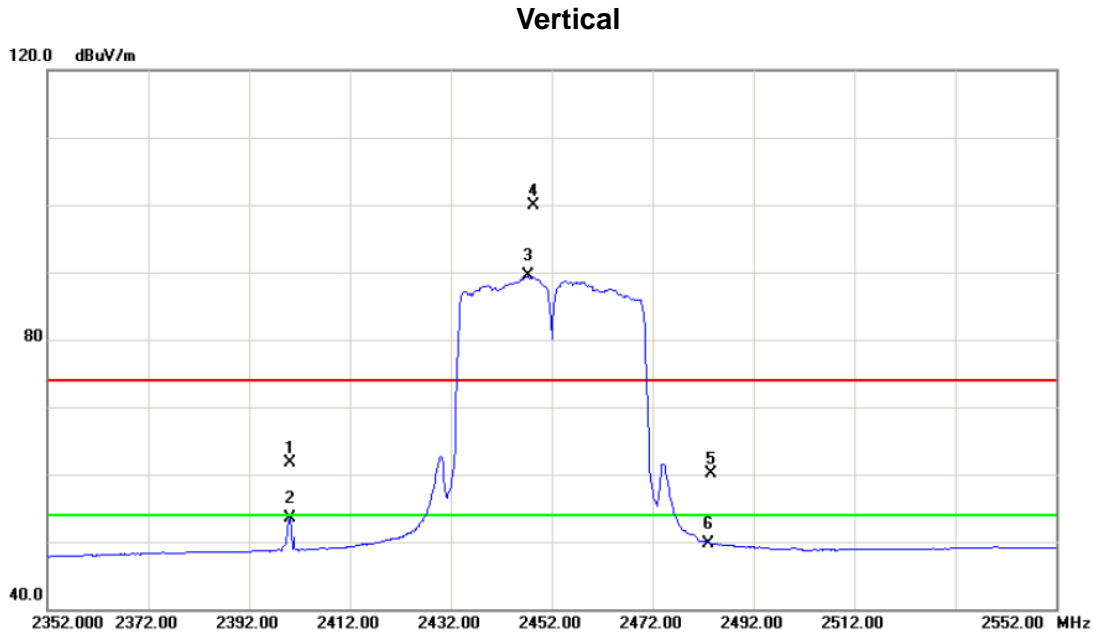
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.780	34.02	6.58	40.60	74.00	-33.40	peak	
2 *	4873.780	25.35	6.58	31.93	54.00	-22.07	AVG	



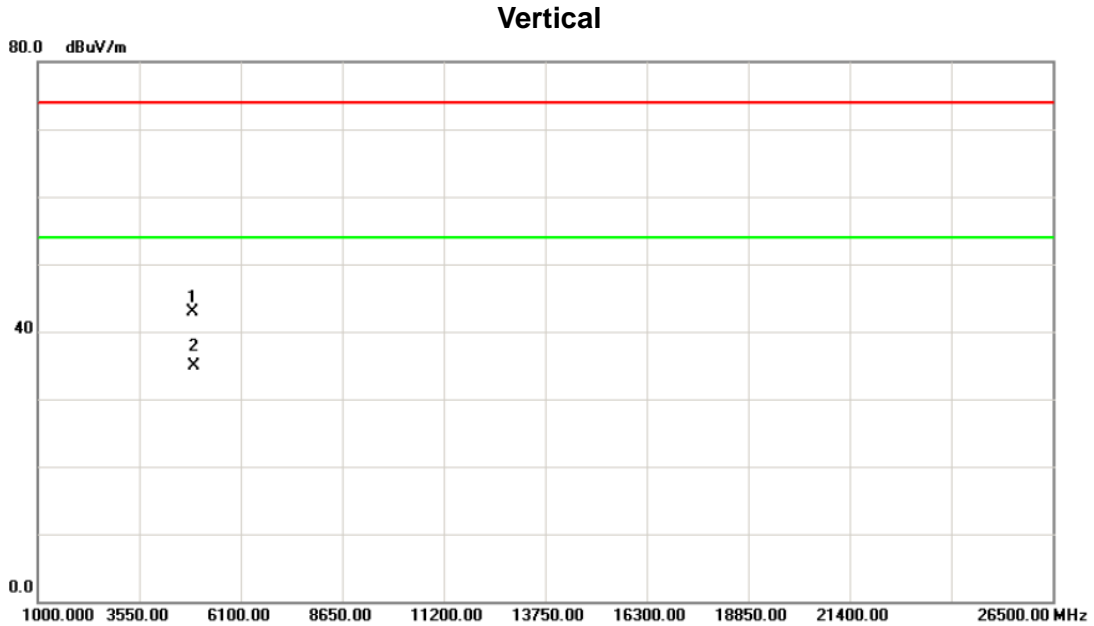
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2400.000	27.57	34.12	61.69	74.00	-12.31	peak	
2	2400.000	19.46	34.12	53.58	54.00	-0.42	AVG	
3 *	2447.200	55.16	34.27	89.43	54.00	35.43	AVG	Fundamental frequency, no limit
4 X	2448.400	65.68	34.27	99.95	74.00	25.95	peak	Fundamental frequency, no limit
5	2483.500	25.70	34.37	60.07	74.00	-13.93	peak	
6	2483.500	15.40	34.37	49.77	54.00	-4.23	AVG	



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

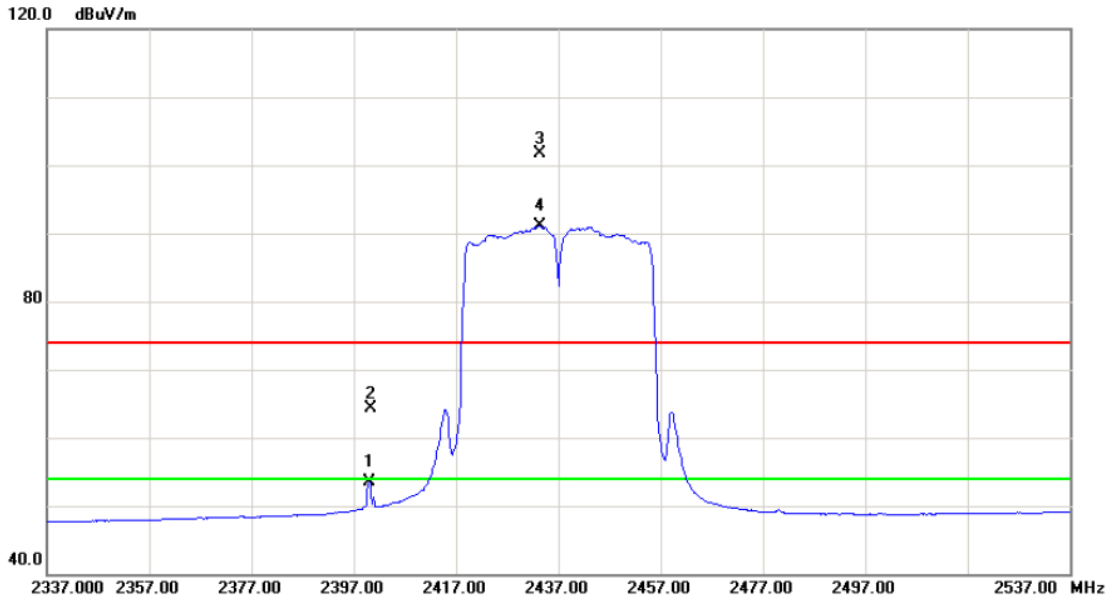


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4903.950	36.27	6.67	42.94	74.00	-31.06	peak	
2 *	4903.950	28.21	6.67	34.88	54.00	-19.12	AVG	



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

Horizontal

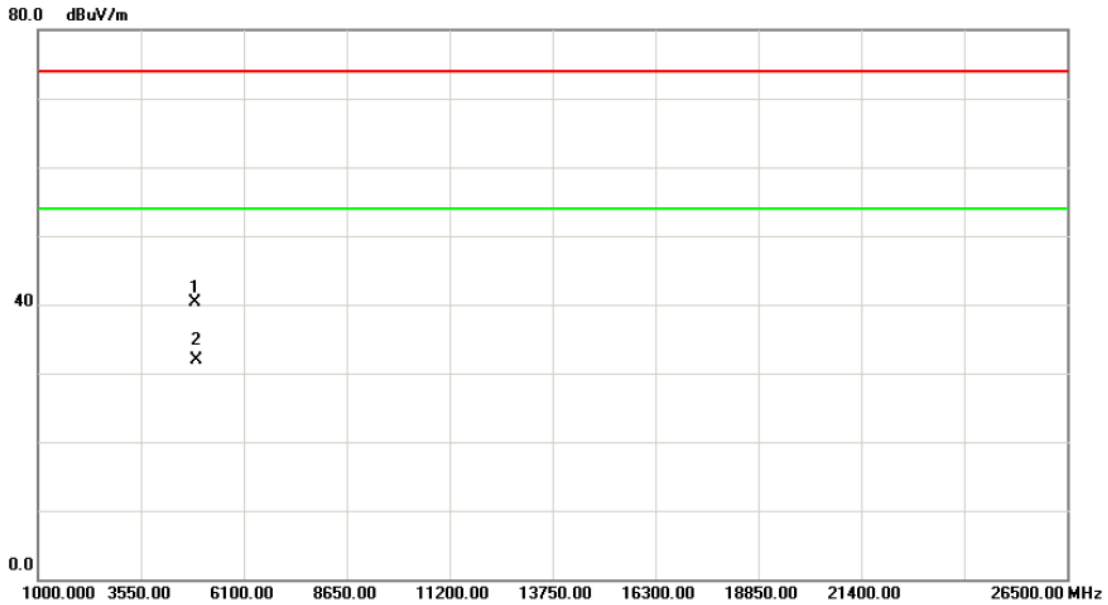


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2400.000	19.36	34.12	53.48	54.00	-0.52	AVG	
2	2400.200	30.26	34.12	64.38	74.00	-9.62	peak	
3 X	2433.400	67.48	34.22	101.70	74.00	27.70	peak	Fundamental frequency, no limit
4 *	2433.400	56.81	34.22	91.03	54.00	37.03	AVG	Fundamental frequency, no limit



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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.050	33.73	6.67	40.40	74.00	-33.60	peak	
2	*	4904.050	25.21	6.67	31.88	54.00	-22.12	AVG	

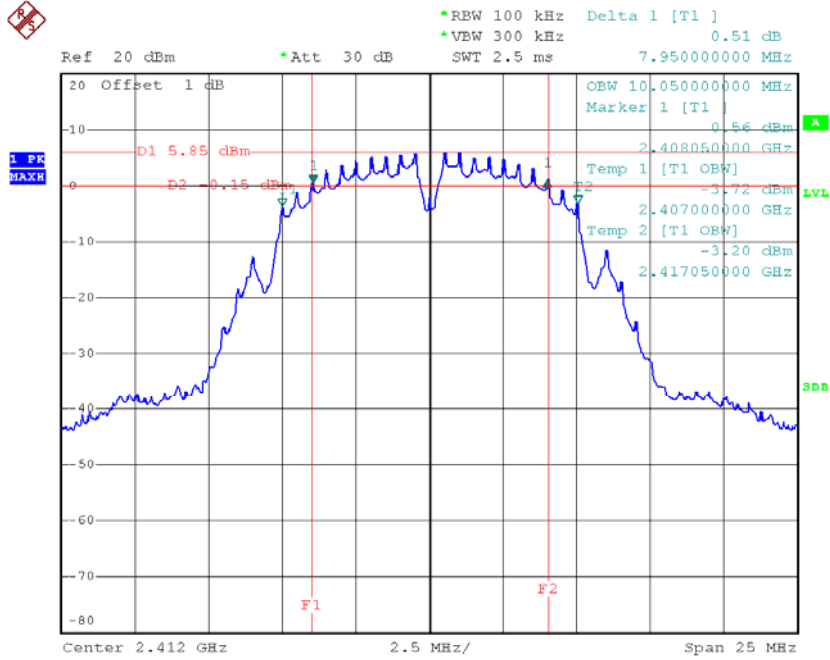


ATTACHMENT E - BANDWIDTH



Test Mode : TX B Mode_CH01/06/11

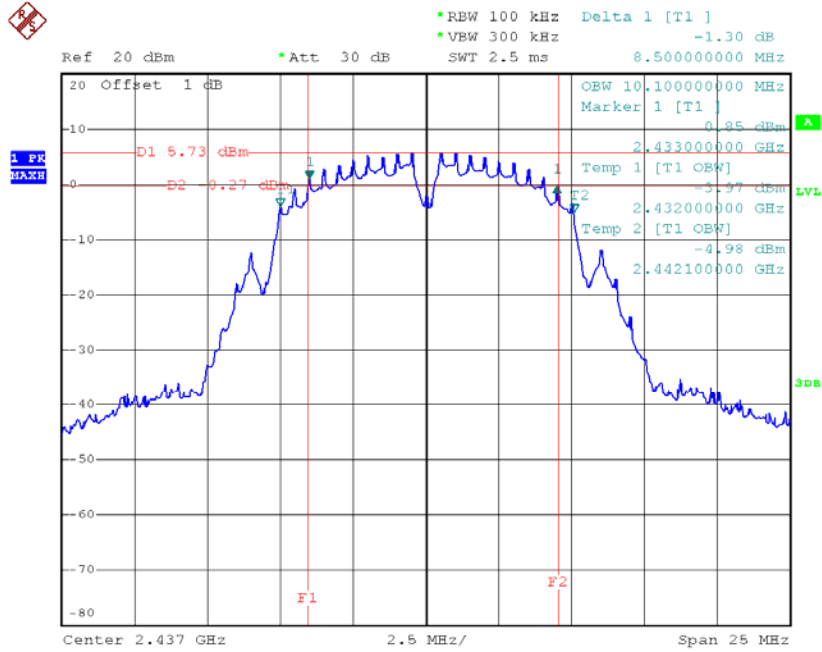
TX CH 01



Date: 5.MAY.2014 12:10:27

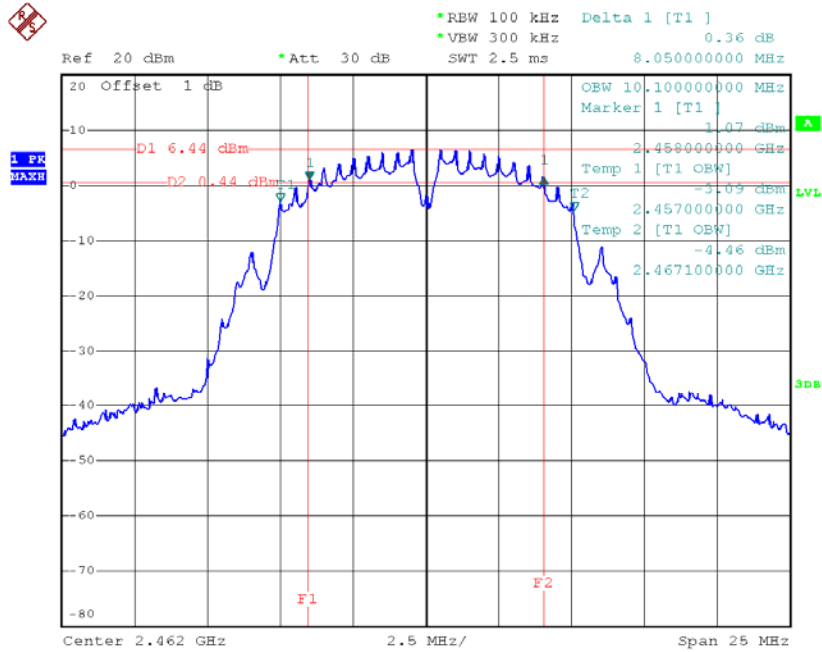


TX CH 06



Date: 5.MAY.2014 12:15:05

TX CH 11

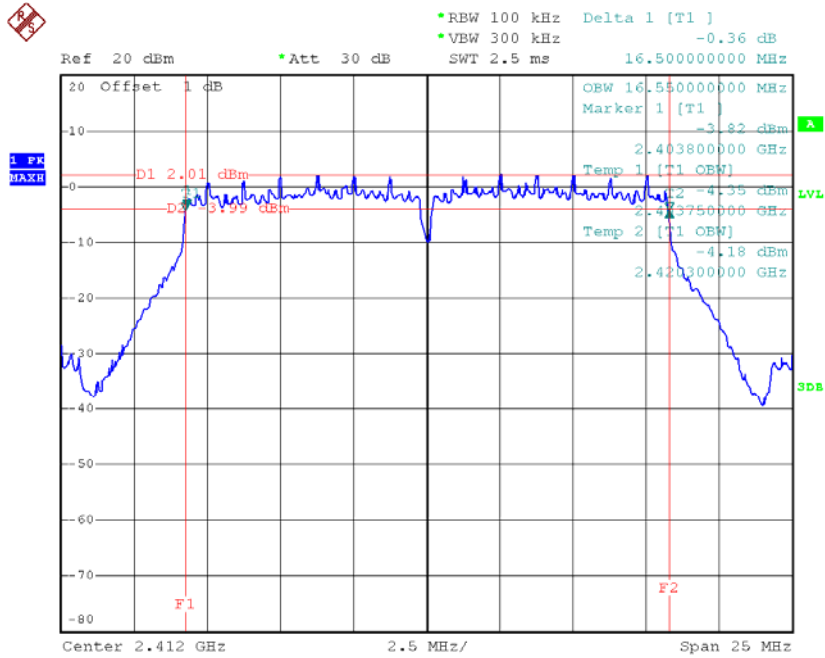


Date: 5.MAY.2014 12:16:21



Test Mode: TX G Mode_CH01/06/11

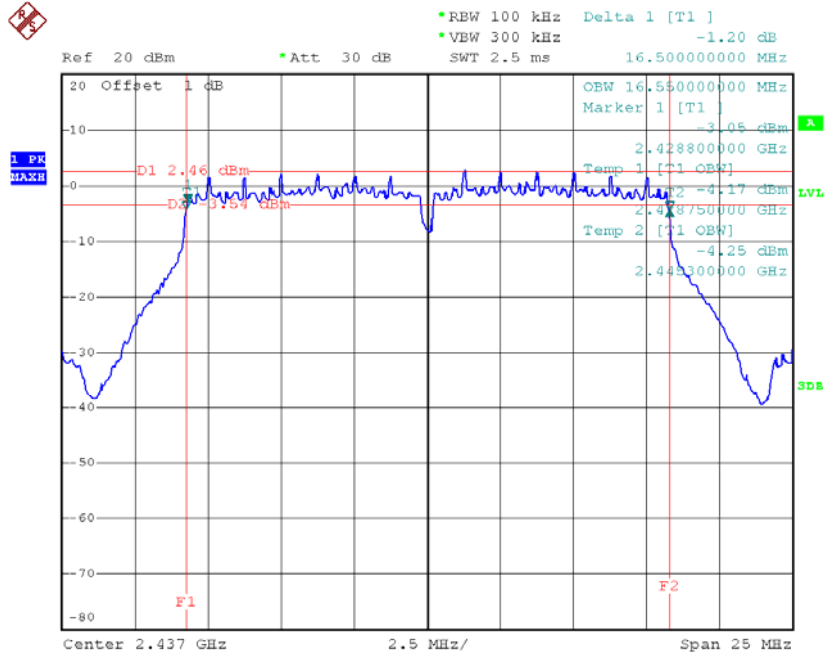
TX CH 01



Date: 5.MAY.2014 13:51:45

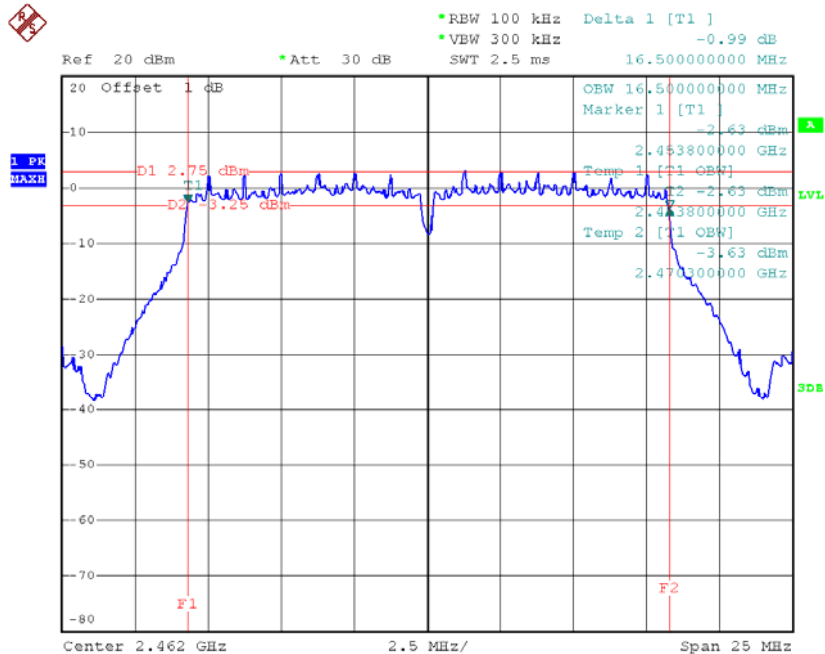


TX CH 06



Date: 5.MAY.2014 13:50:14

TX CH 11

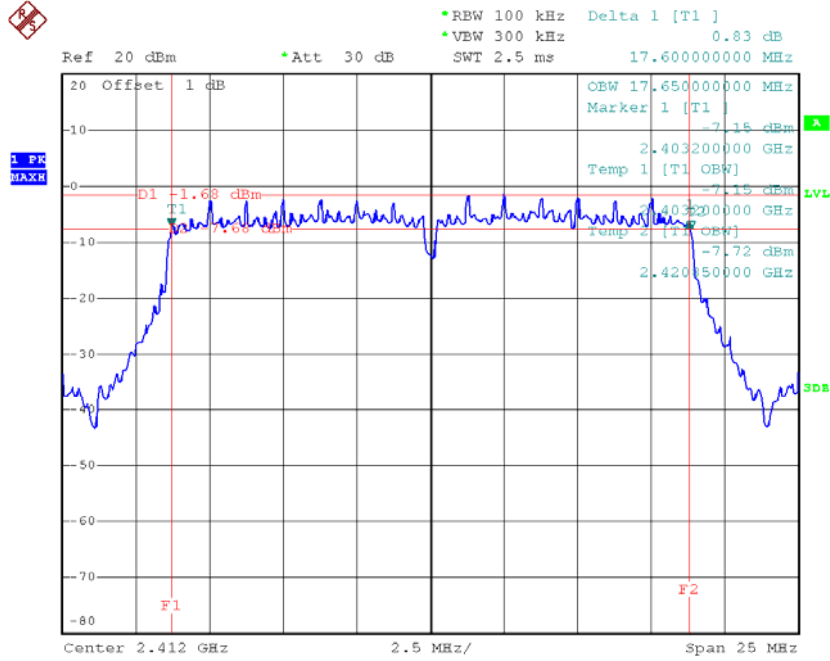


Date: 5.MAY.2014 13:52:59



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

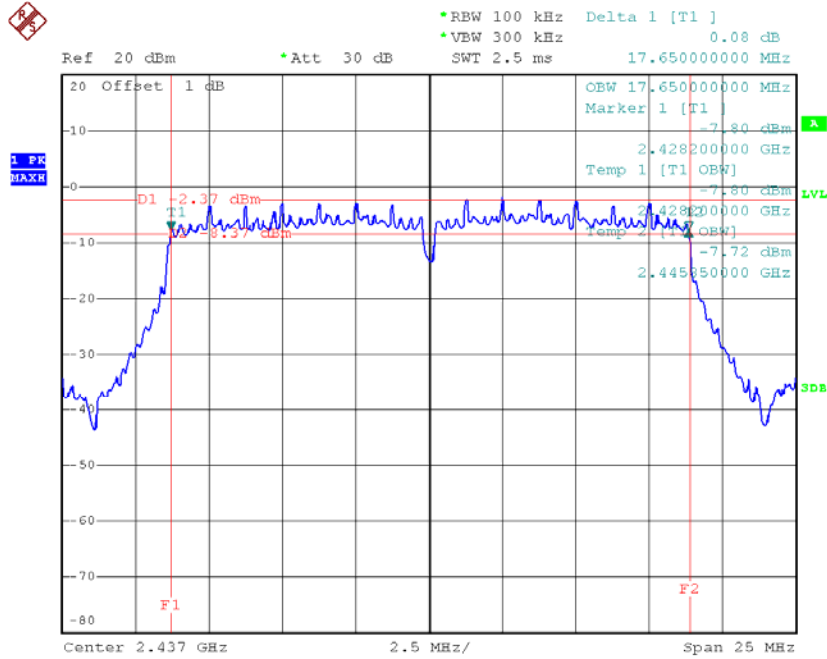
TX CH 01



Date: 5.MAY.2014 14:02:05

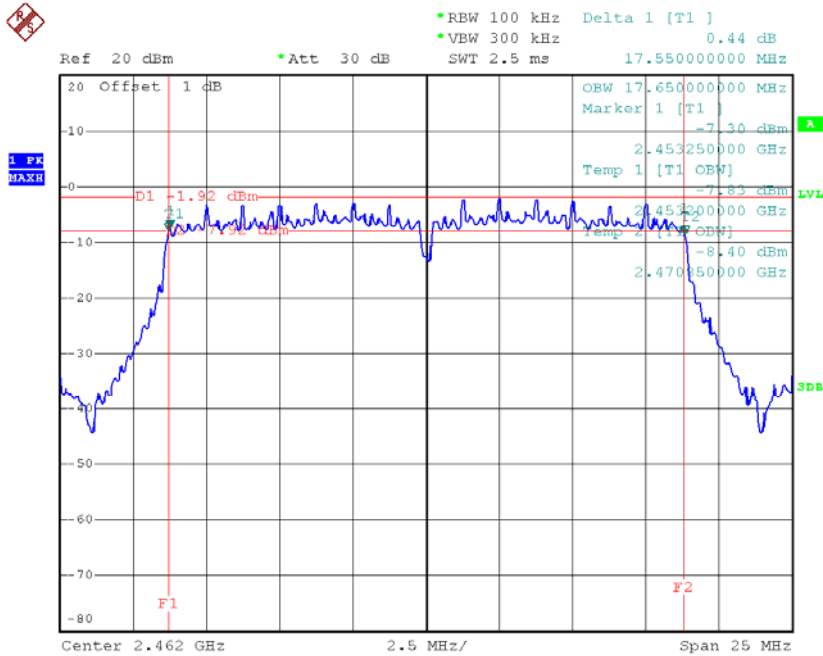


TX CH 06



Date: 5.MAY.2014 14:04:59

TX CH 11

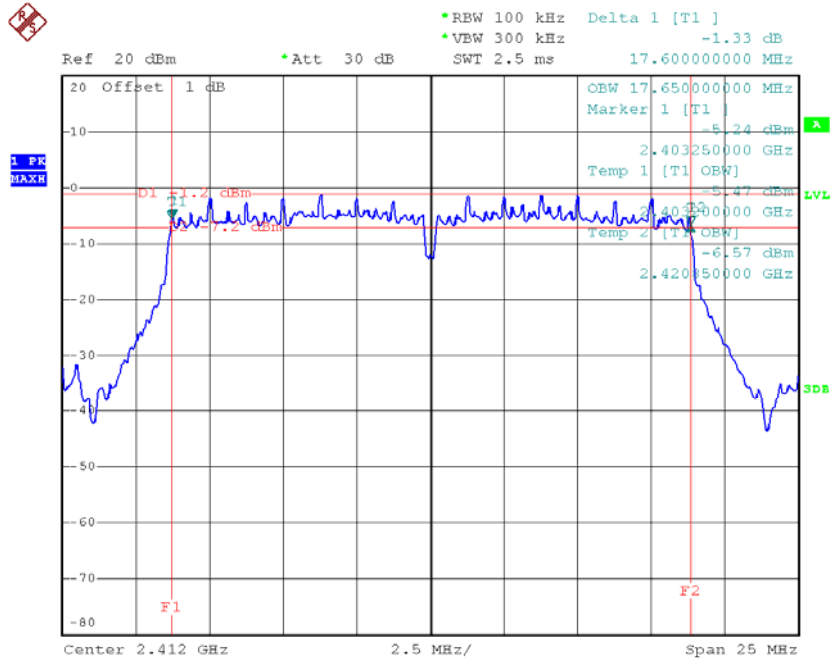


Date: 5.MAY.2014 14:05:47



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

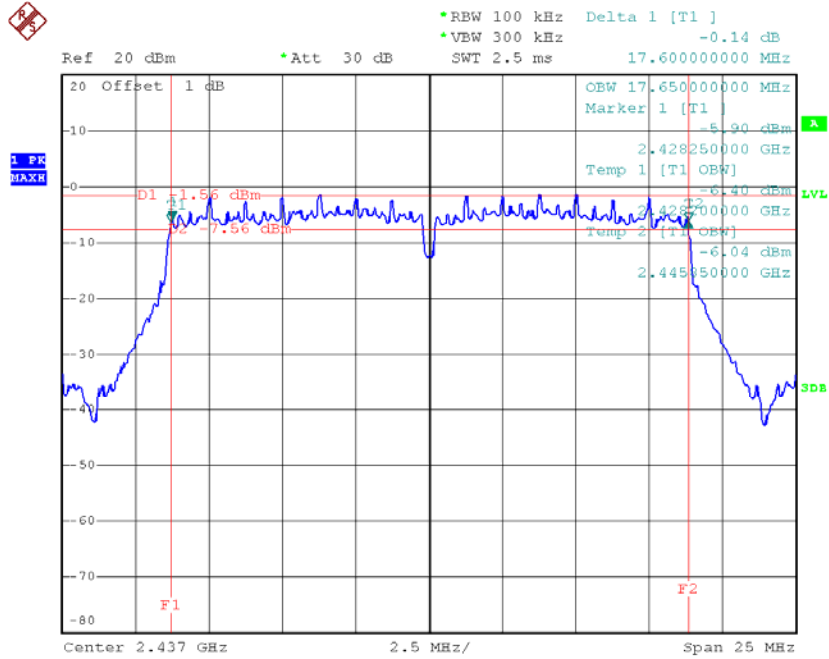
TX CH 01



Date: 5.MAY.2014 14:11:29

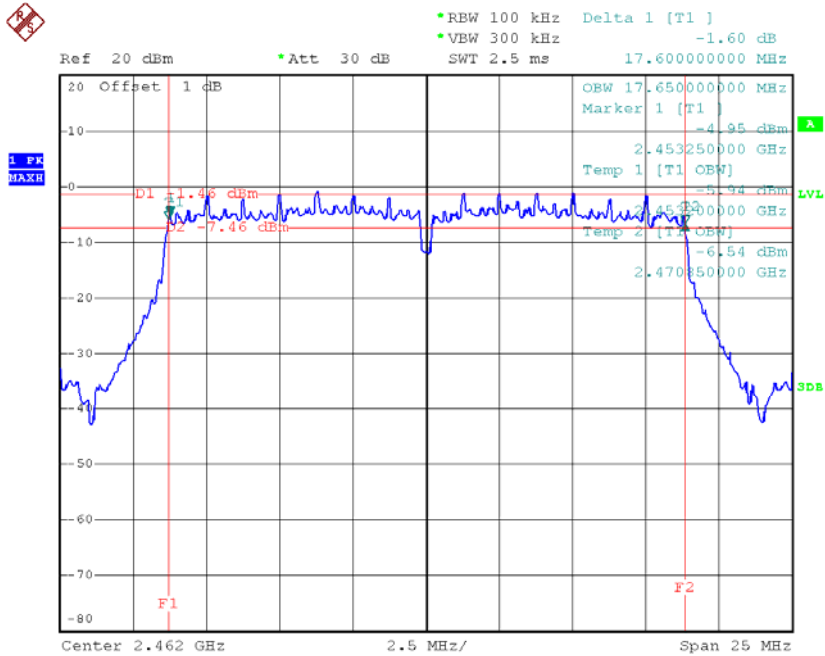


TX CH 06



Date: 5.MAY.2014 14:12:21

TX CH 11

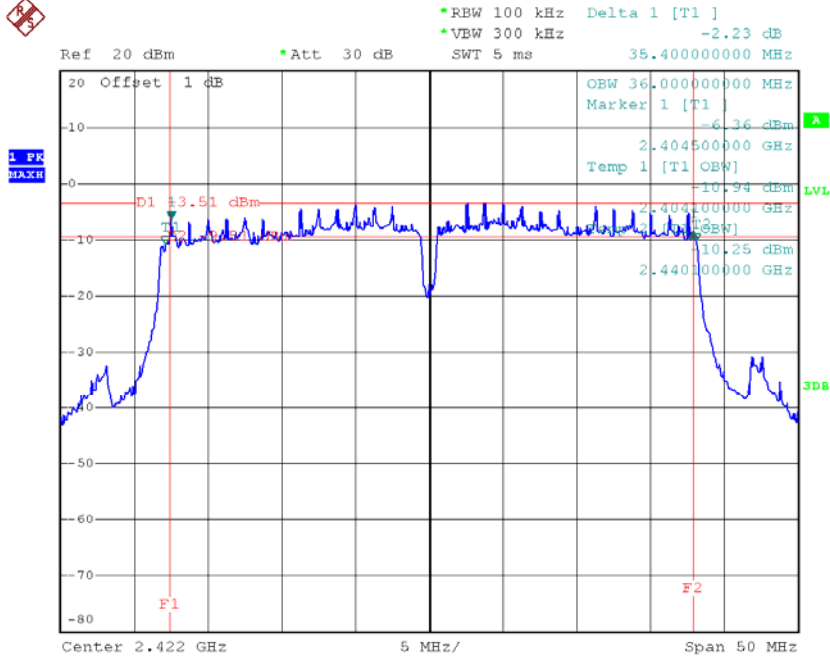


Date: 5.MAY.2014 14:13:43



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

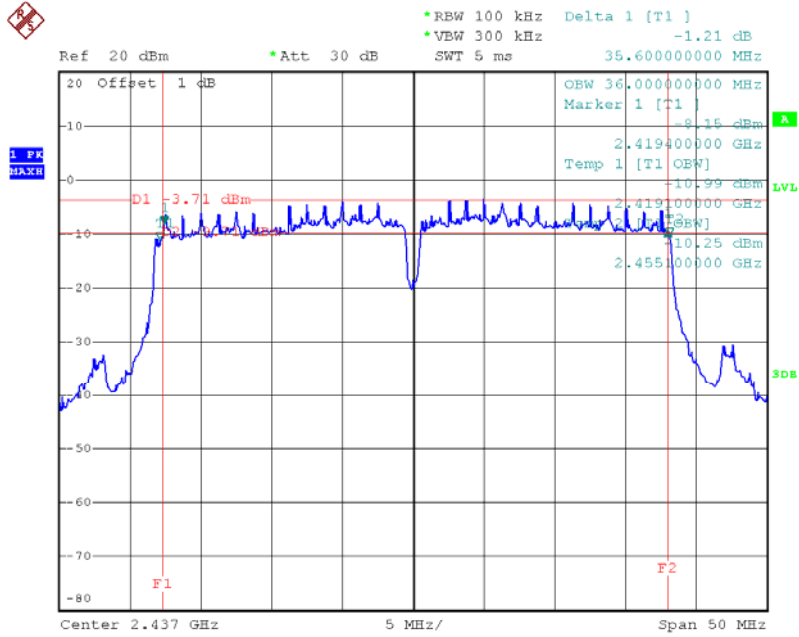
TX CH 03



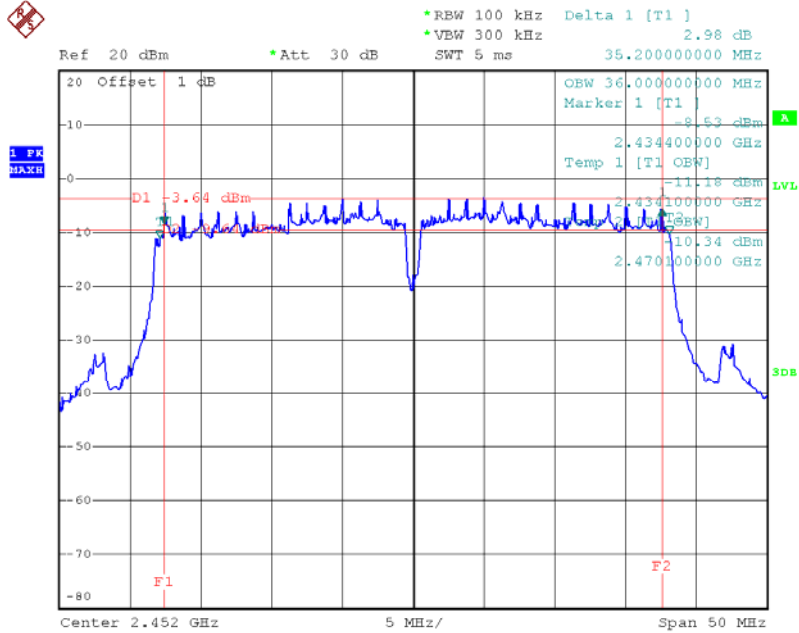
Date: 5.MAY.2014 14:33:25



TX CH 06



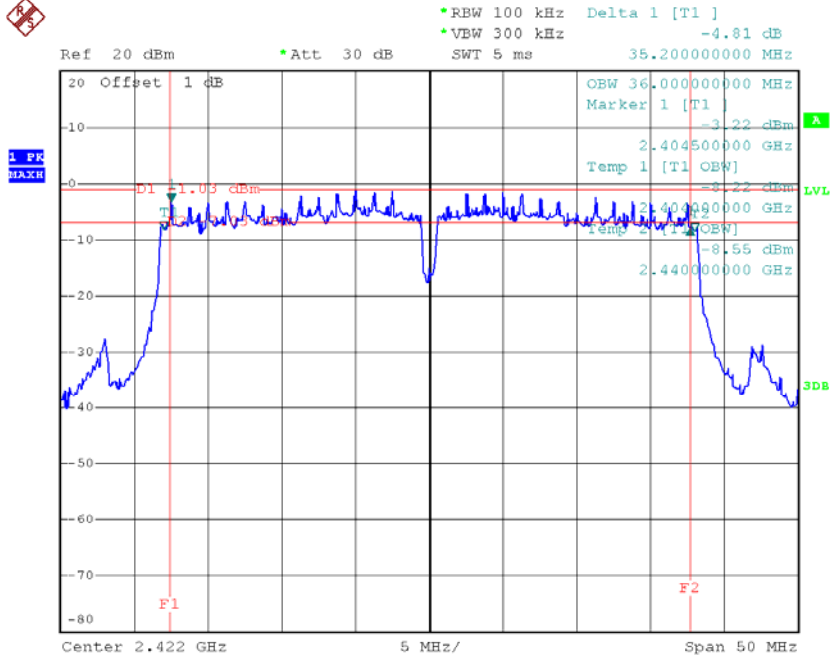
TX CH 09





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

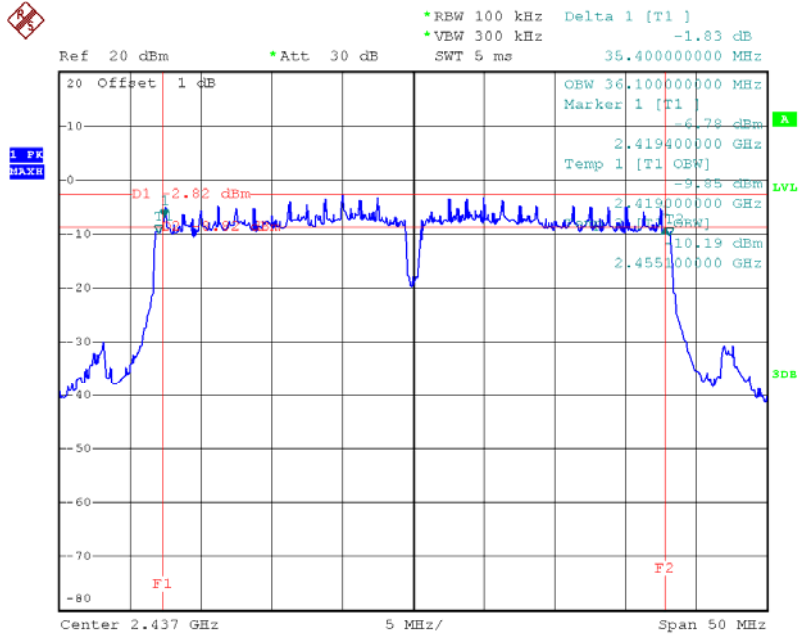
TX CH 03



Date: 5.MAY.2014 14:22:41

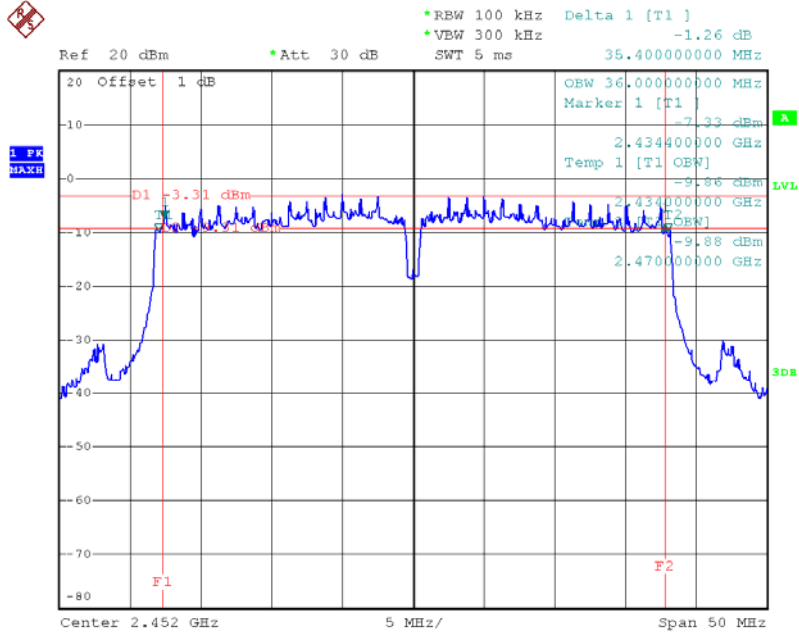


TX CH 06



Date: 5.MAY.2014 14:23:58

TX CH 09



Date: 5.MAY.2014 14:28:54



ATTACHMENT F - MAXIMUM OUTPUT POWER



Test Mode : TX B Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	17.70	30	1
CH06	2437	17.90	30	1
CH11	2462	18.10	30	1

Test Mode : TX G Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	22.90	30	1
CH06	2437	23.00	30	1
CH11	2462	23.00	30	1



Test Mode : TX N-20M Mode_ANT 1

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	19.70	30	1
CH06	2437	19.50	30	1
CH11	2462	19.70	30	1

Test Mode : TX N-20M Mode_ANT 2

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	19.20	30	1
CH06	2437	19.50	30	1
CH11	2462	19.60	30	1

Test Mode : TX N-20M Mode_Total

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	22.47	30	1
CH06	2437	22.51	30	1
CH11	2462	22.66	30	1



Test Mode : TX N-40M Mode_ANT 1

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	19.80	30	1
CH06	2437	20.00	30	1
CH09	2452	20.10	30	1

Test Mode : TX N-40M Mode_ANT 2

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	20.50	30	1
CH06	2437	20.30	30	1
CH09	2452	20.50	30	1

Test Mode : TX N-40M Mode_Total

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	23.17	30	1
CH06	2437	23.16	30	1
CH09	2452	23.31	30	1



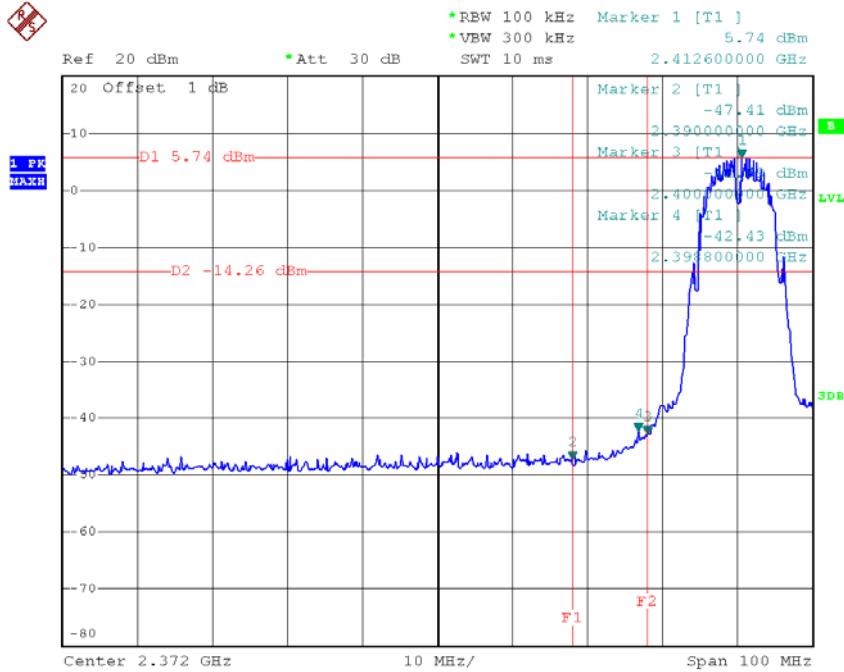
**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS
EMISSION**



Test Mode :	TX B Mode
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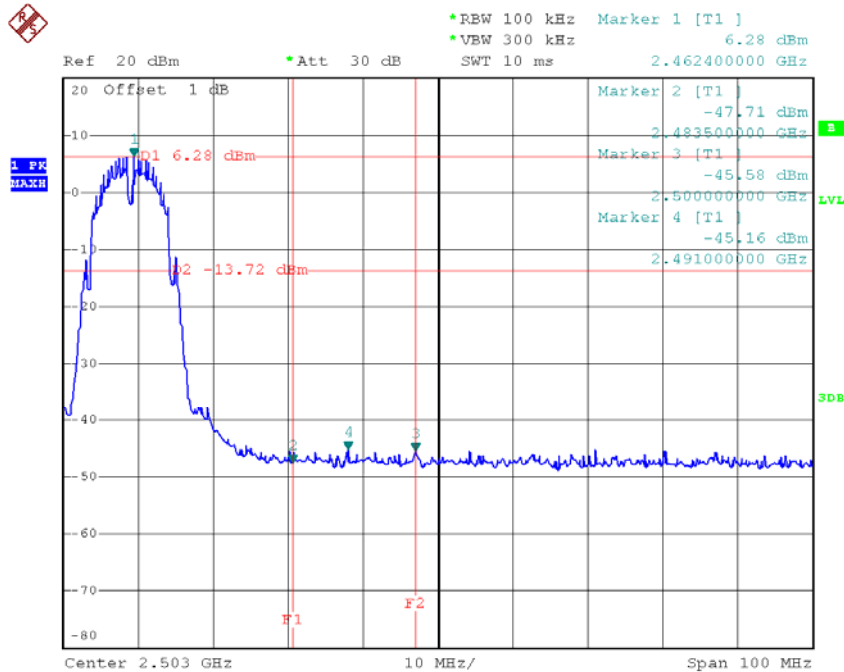


TX B mode CH01



Date: 5.MAY.2014 12:12:00

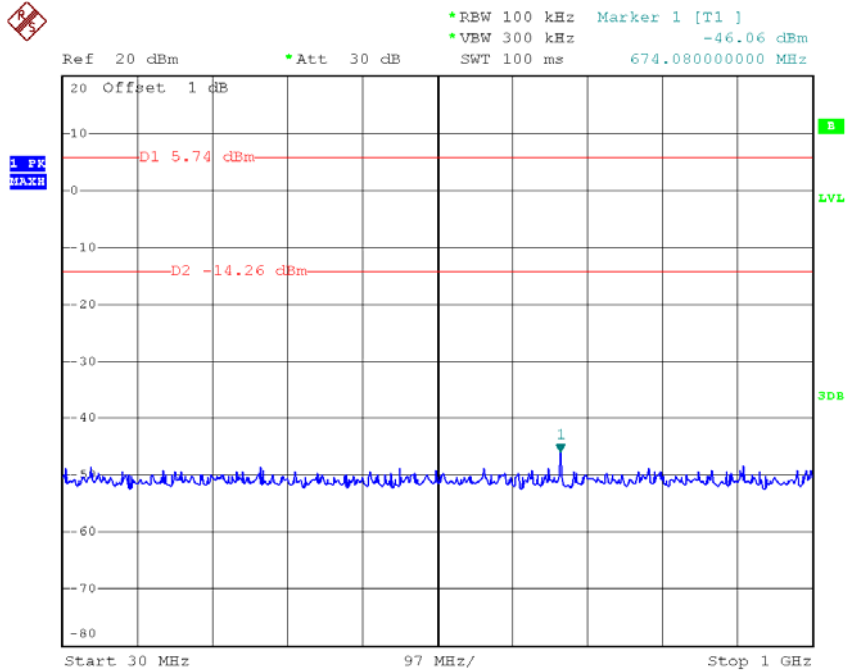
TX B mode CH11



Date: 5.MAY.2014 12:17:40

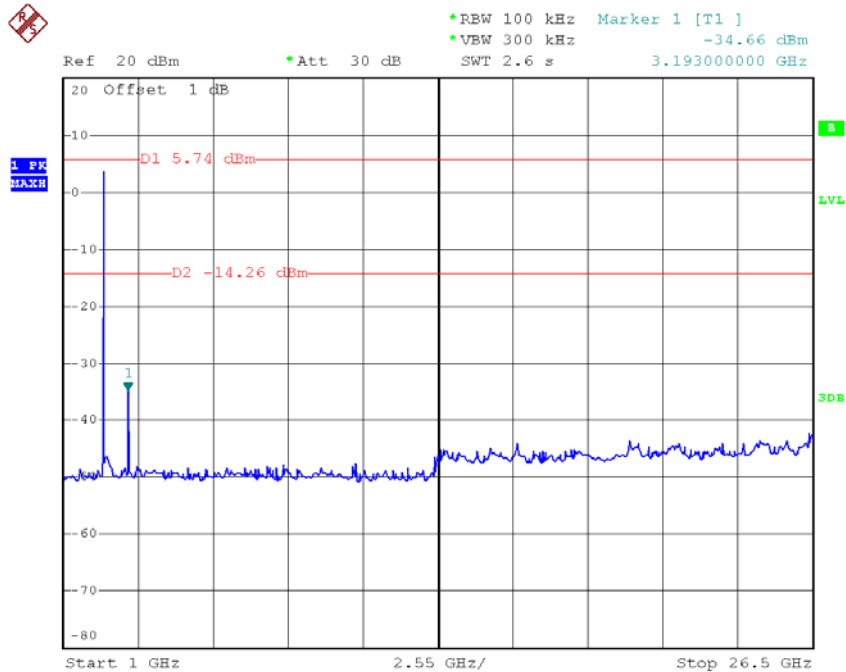


TX B mode CH01 (30MHz to 1000MHz)



Date: 5.MAY.2014 12:12:24

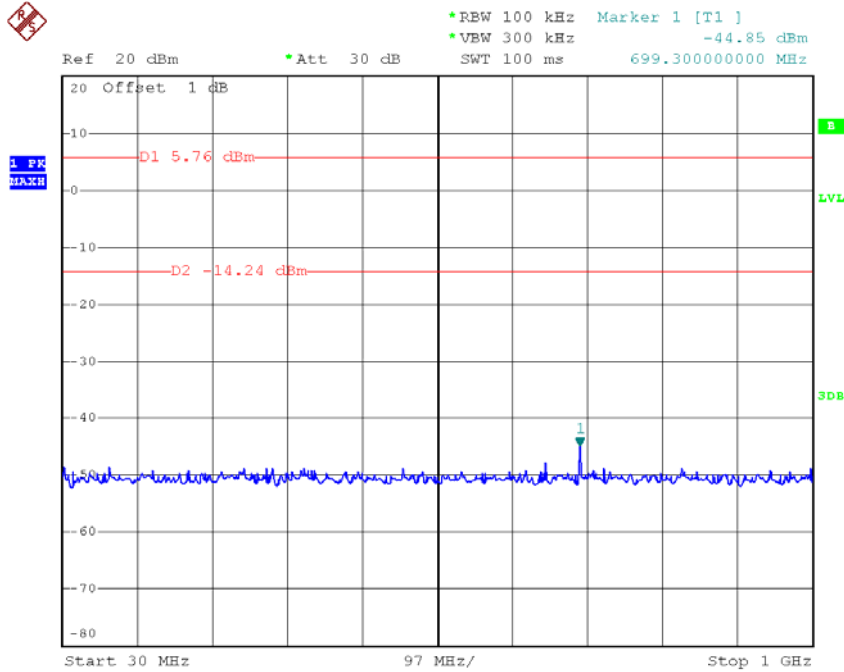
TX B mode CH01 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 12:12:48

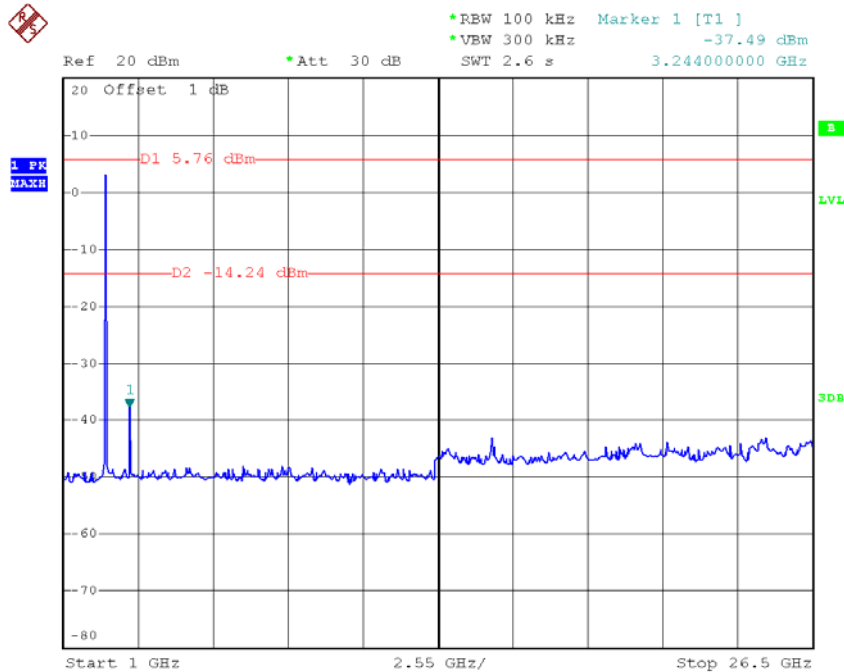


TX B mode CH06 (30MHz to 1000MHz)



Date: 5.MAY.2014 12:13:44

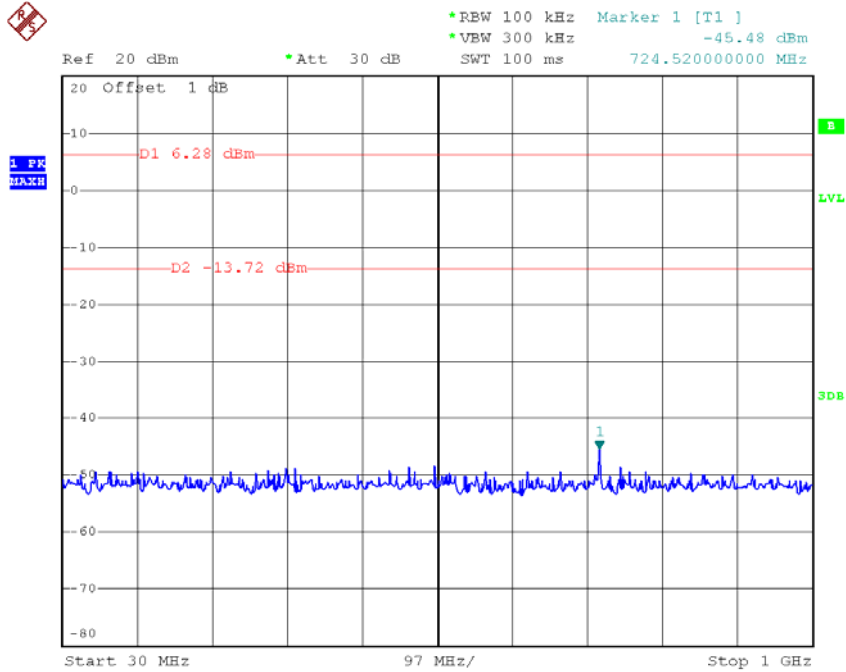
TX B mode CH06 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 12:14:17

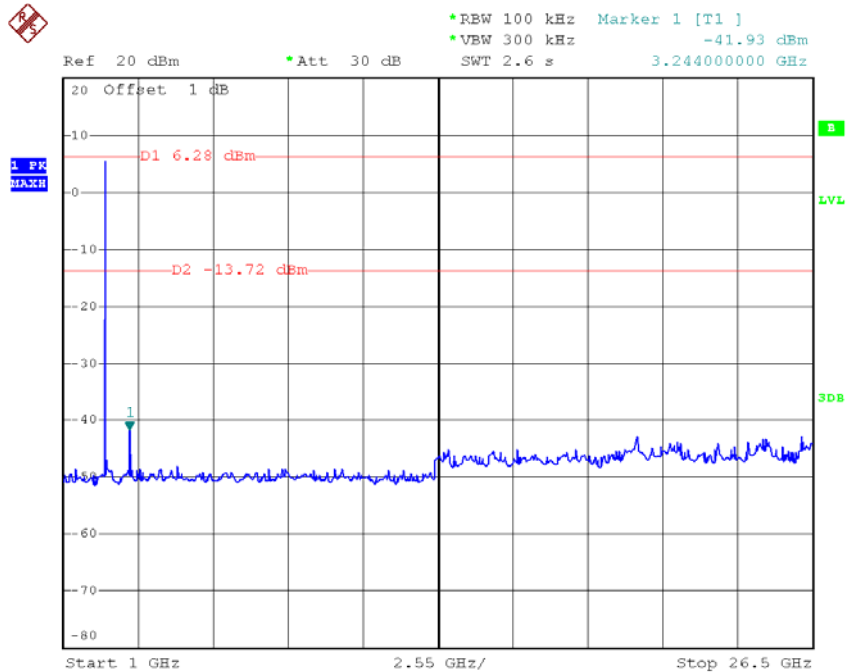


TX B mode CH11 (30MHz to 1000MHz)



Date: 5.MAY.2014 12:17:52

TX B mode CH11 (1000MHz to 10th Harmonic)



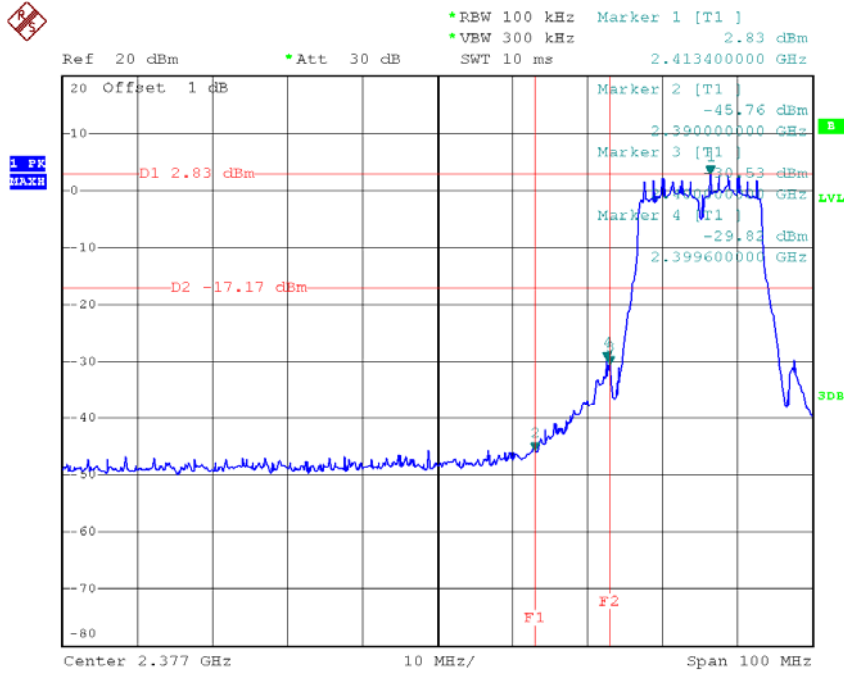
Date: 5.MAY.2014 12:18:06



Test Mode :	TX G Mode
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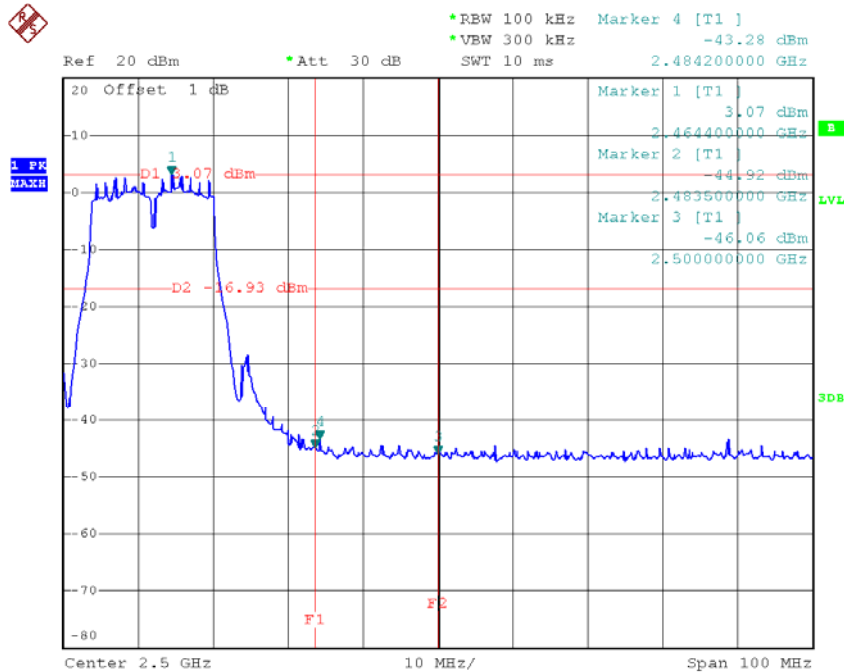


TX G mode CH01



Date: 5.MAY.2014 13:57:37

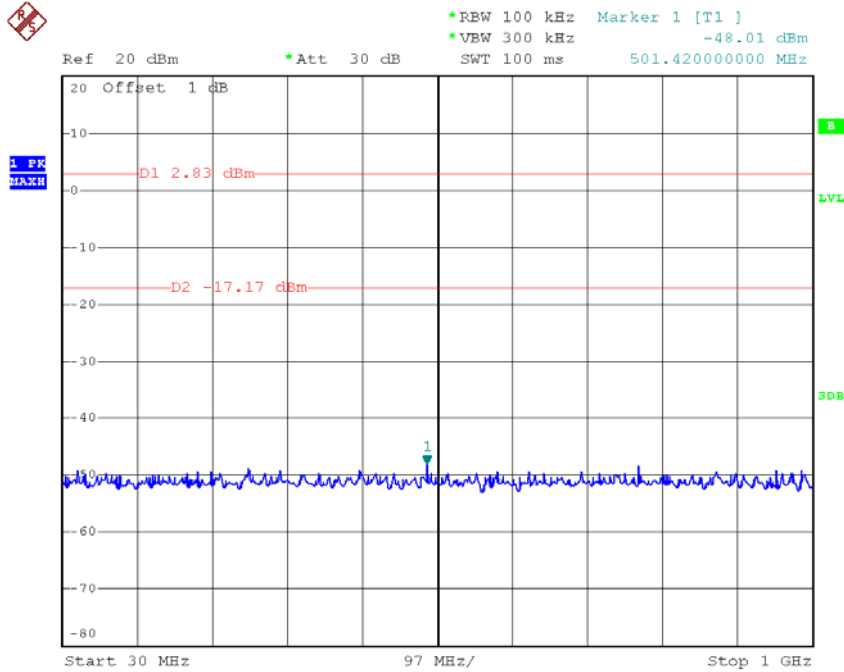
TX G mode CH11



Date: 5.MAY.2014 13:54:44

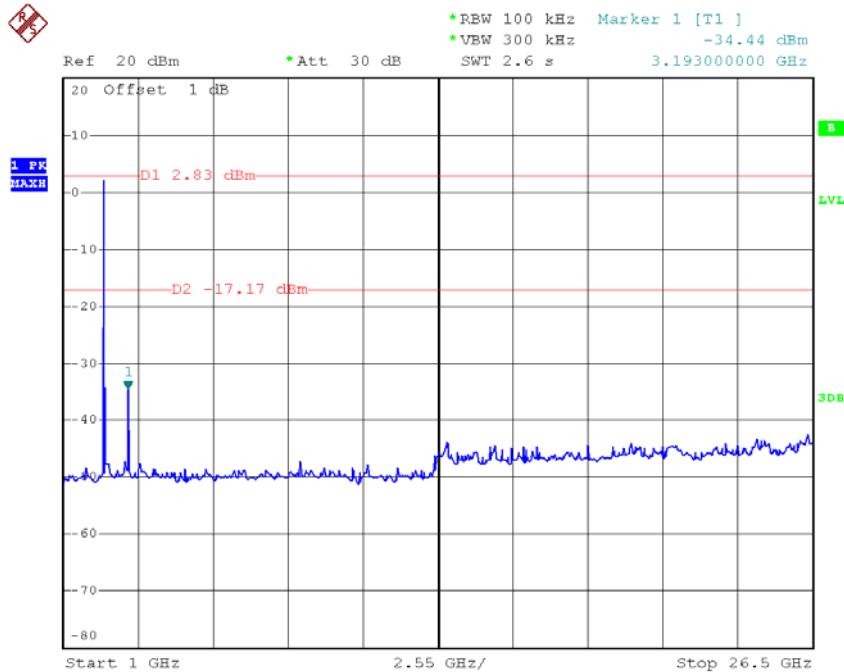


TX G mode CH01 (30MHz to 1000MHz)



Date: 5.MAY.2014 13:57:50

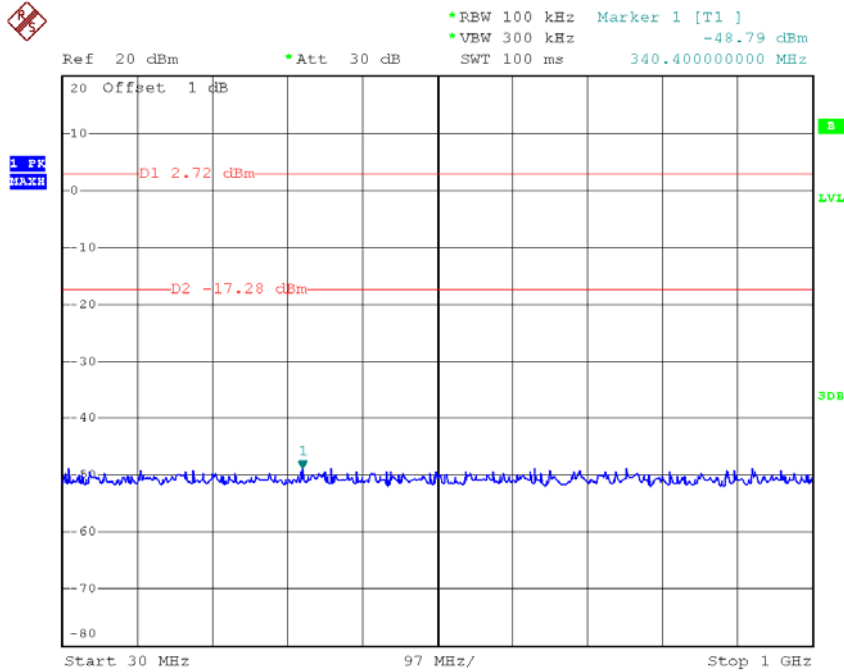
TX G mode CH01 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 13:58:12

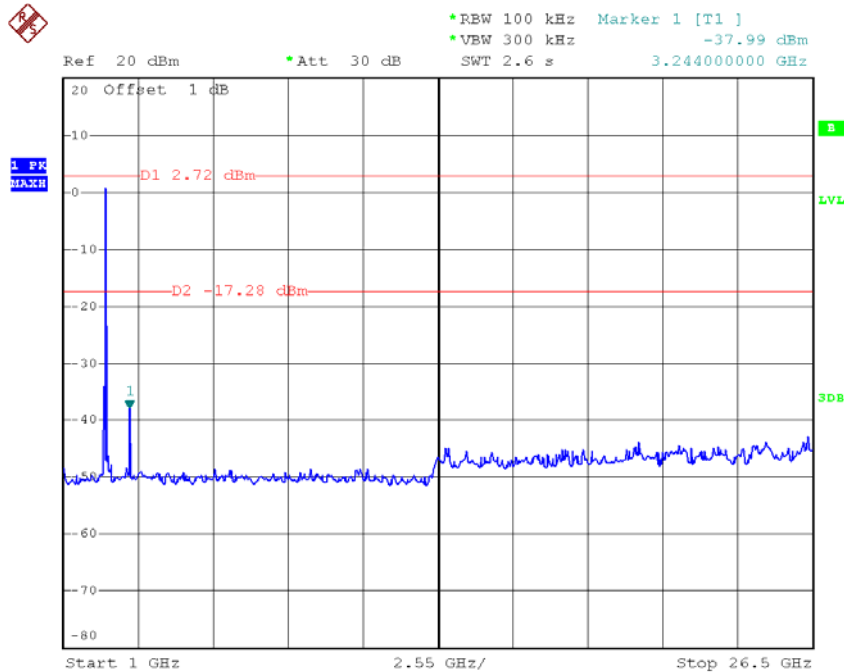


TX G mode CH06 (30MHz to 1000MHz)



Date: 5.MAY.2014 13:56:07

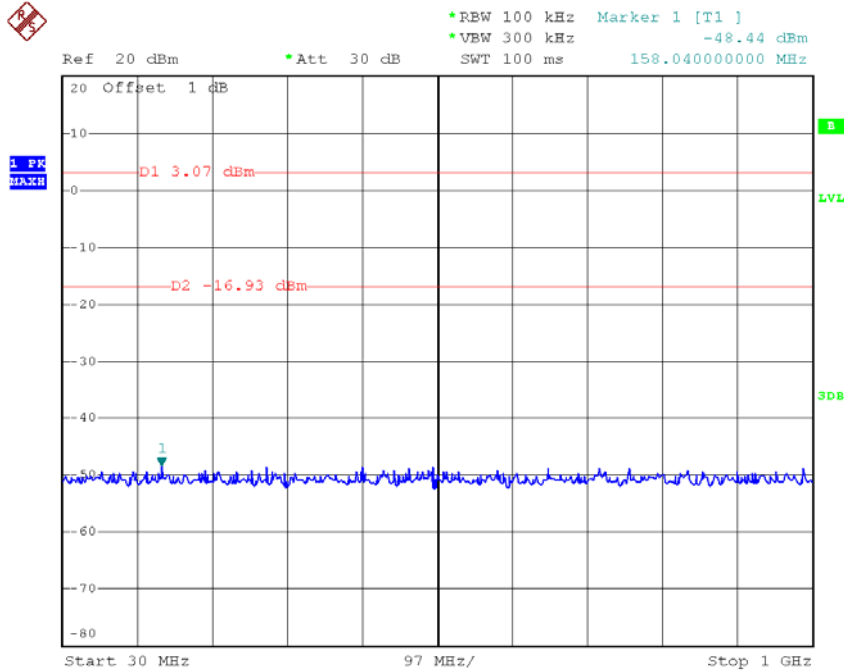
TX G mode CH06 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 13:56:22

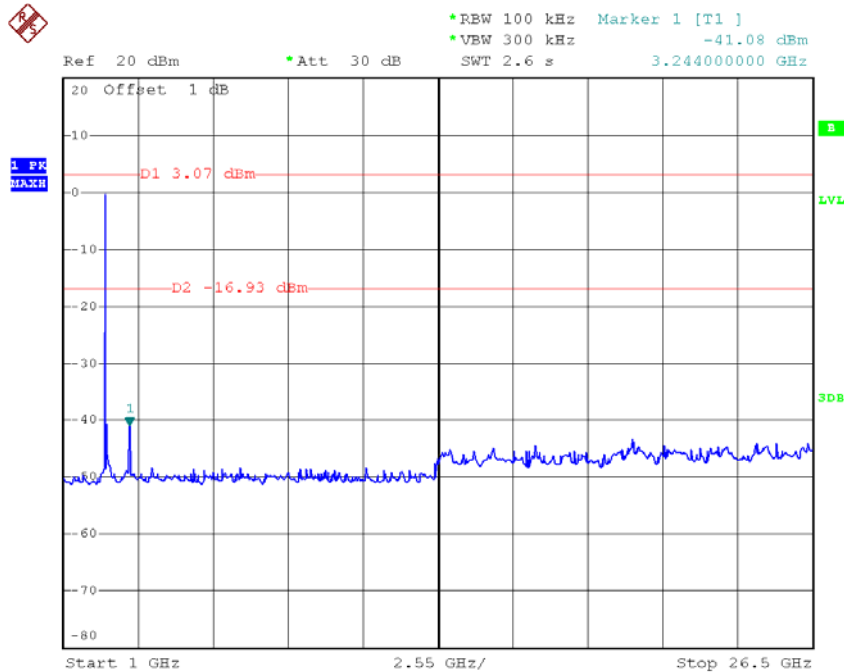


TX G mode CH11 (30MHz to 1000MHz)



Date: 5.MAY.2014 13:55:03

TX G mode CH11 (1000MHz to 10th Harmonic)



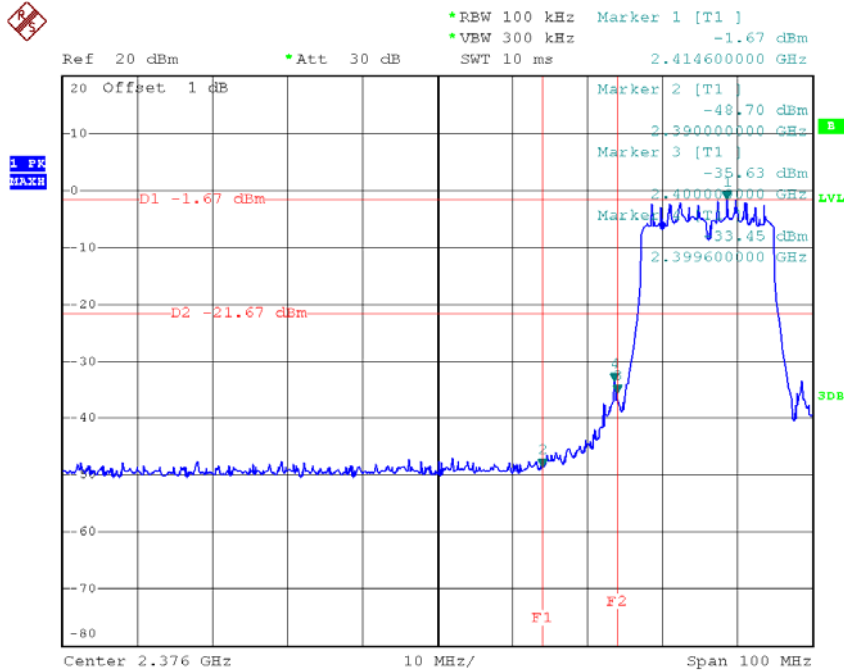
Date: 5.MAY.2014 13:55:18



Test Mode :	TX N-20M Mode_ANT 1
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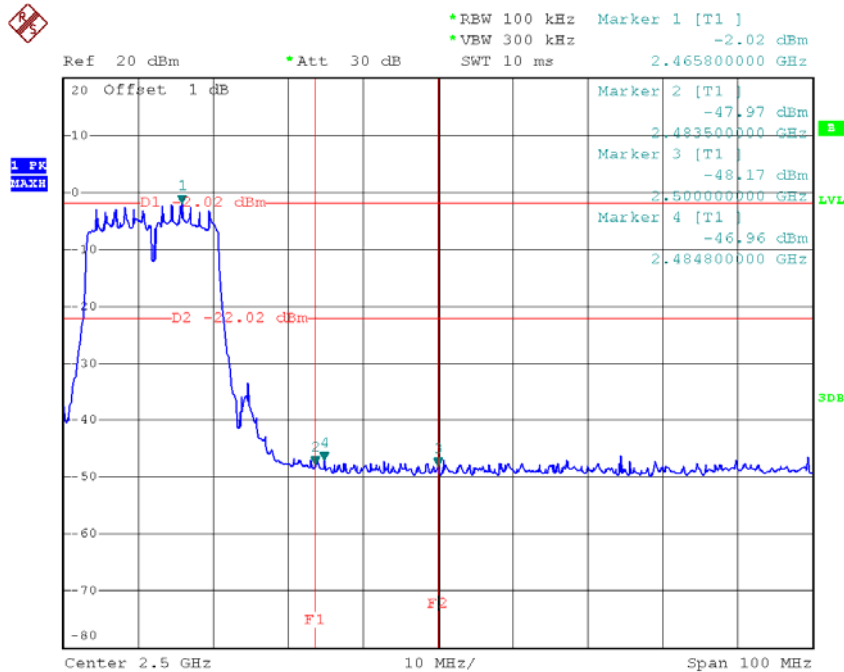


TX HT20 mode CH01



Date: 5.MAY.2014 14:00:55

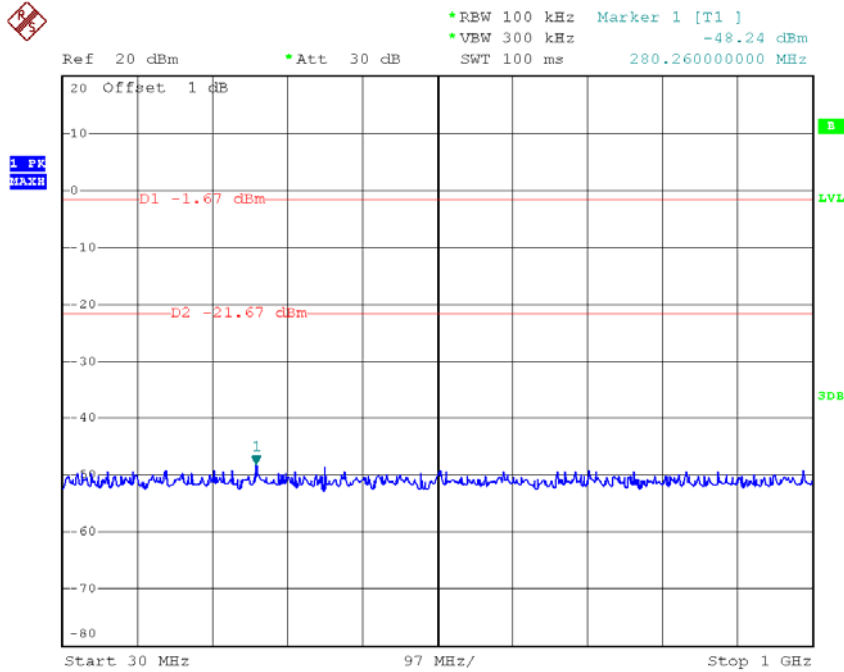
TX HT20 mode CH11



Date: 5.MAY.2014 14:06:57

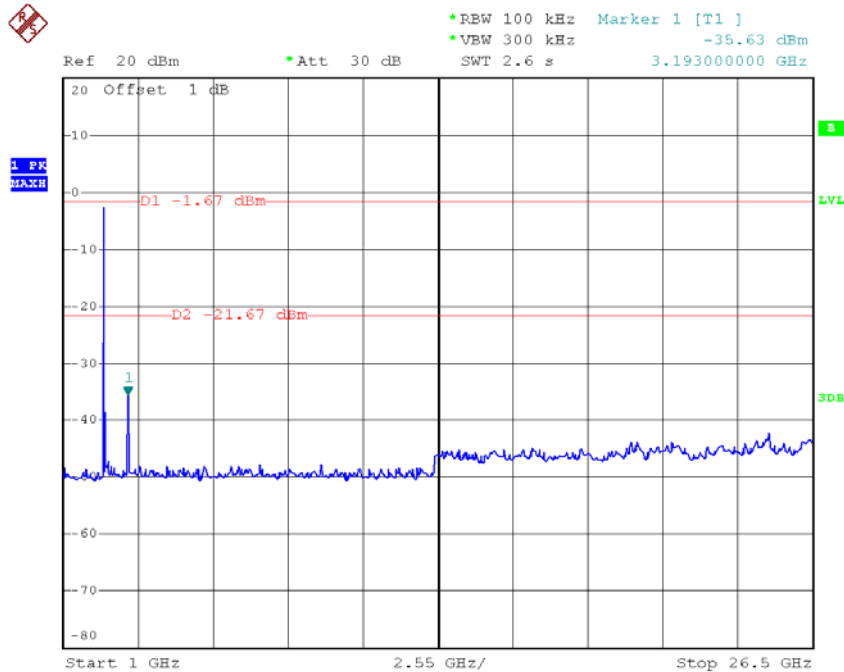


TX HT20 mode CH01 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:02:22

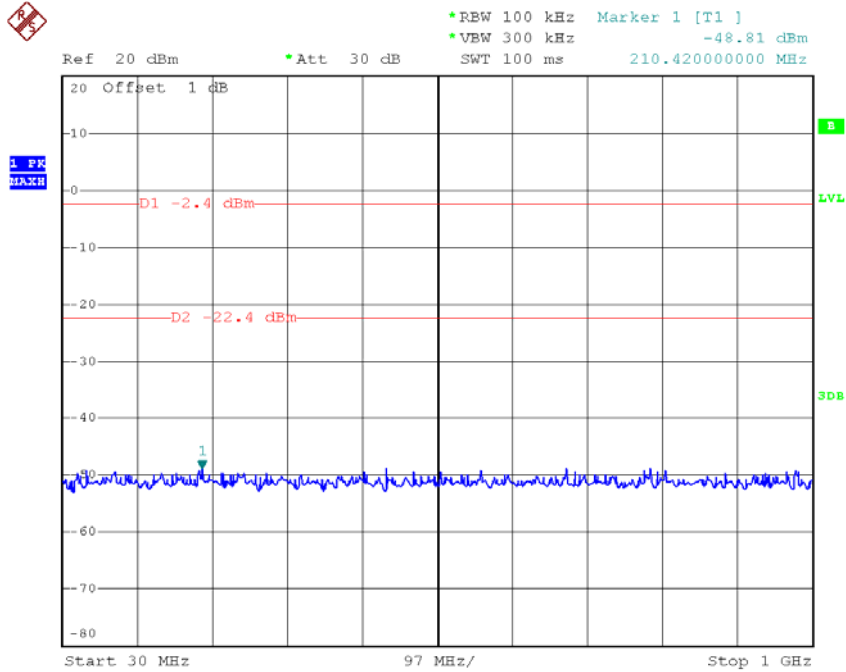
TX HT20 mode CH01 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:02:51

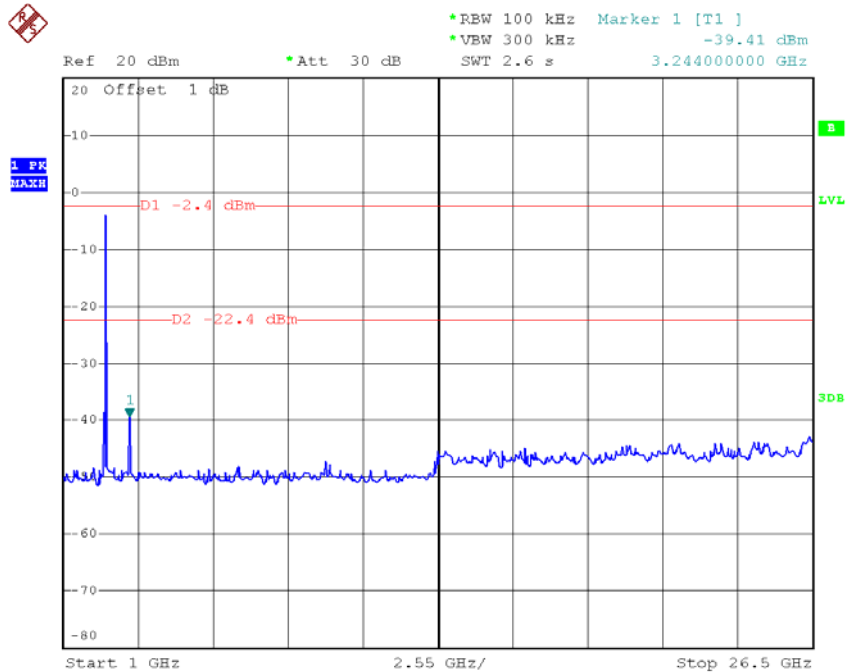


TX HT20 mode CH06 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:03:37

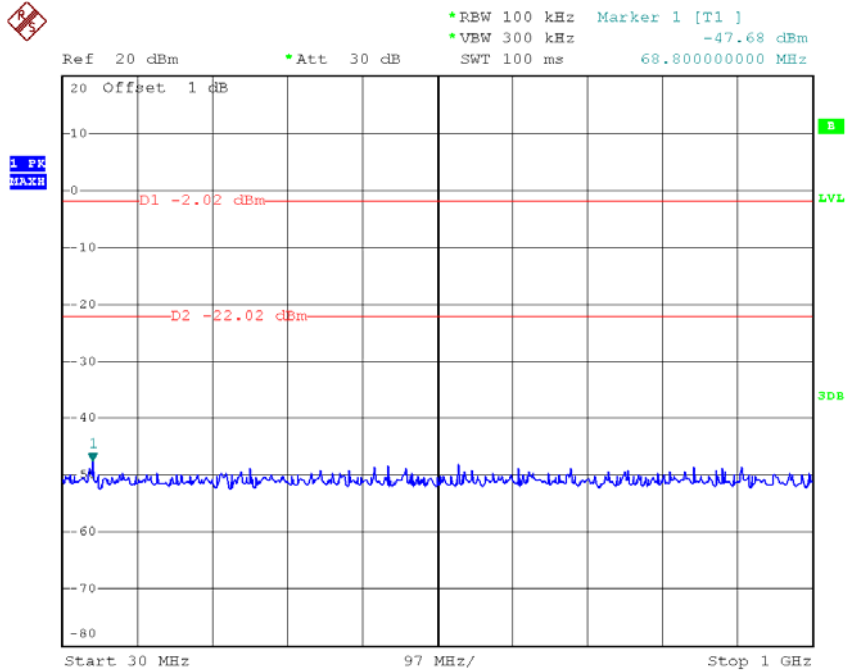
TX HT20 mode CH06 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:03:53

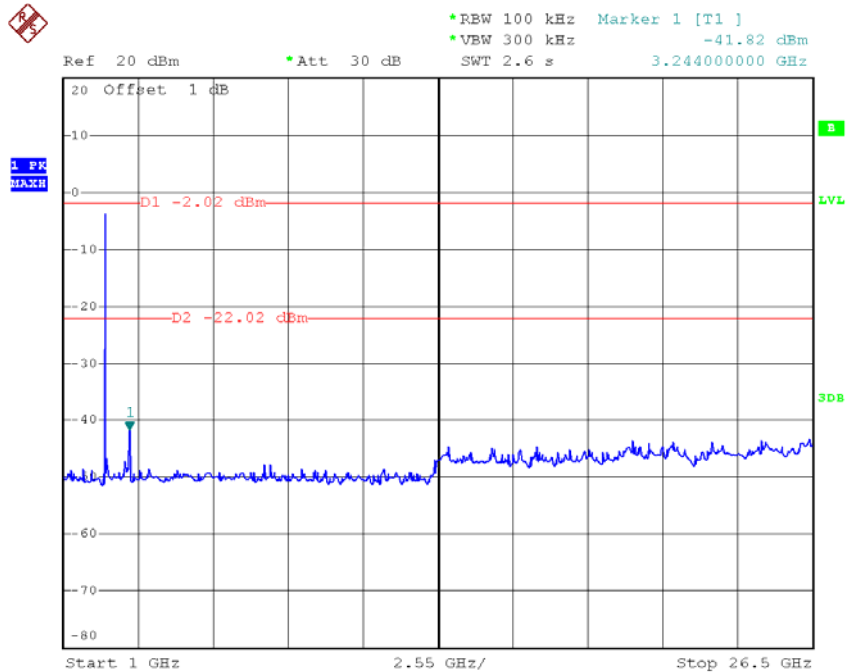


TX HT20 mode CH11 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:07:09

TX HT20 mode CH11 (1000MHz to 10th Harmonic)



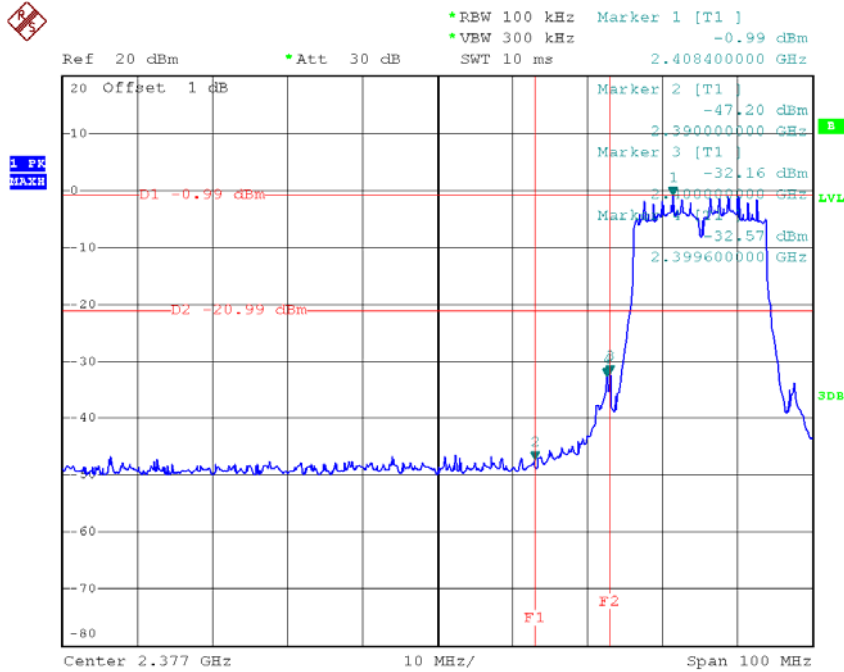
Date: 5.MAY.2014 14:07:24



Test Mode :	TX N-20M Mode_ANT 2
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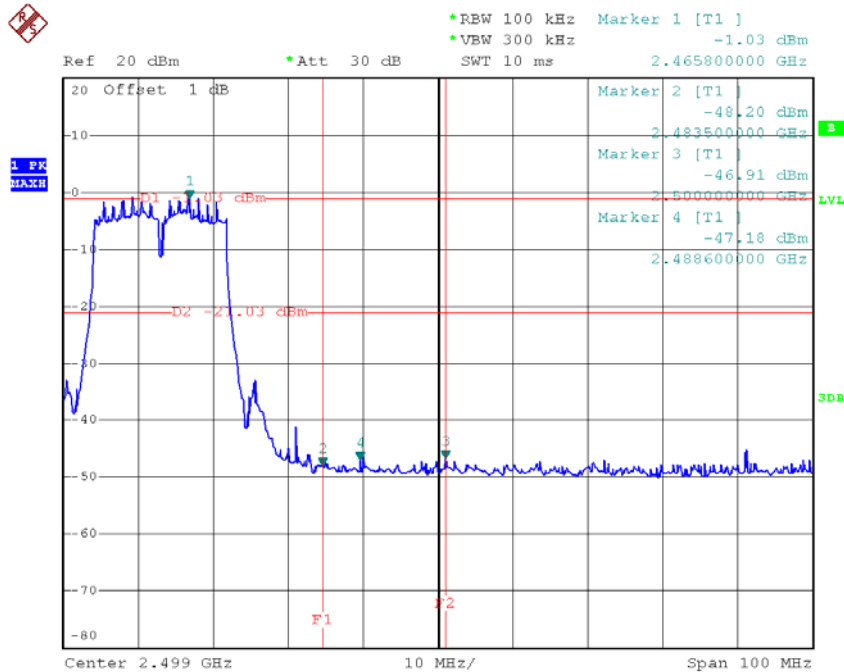


TX HT20 mode CH01



Date: 5.MAY.2014 14:17:17

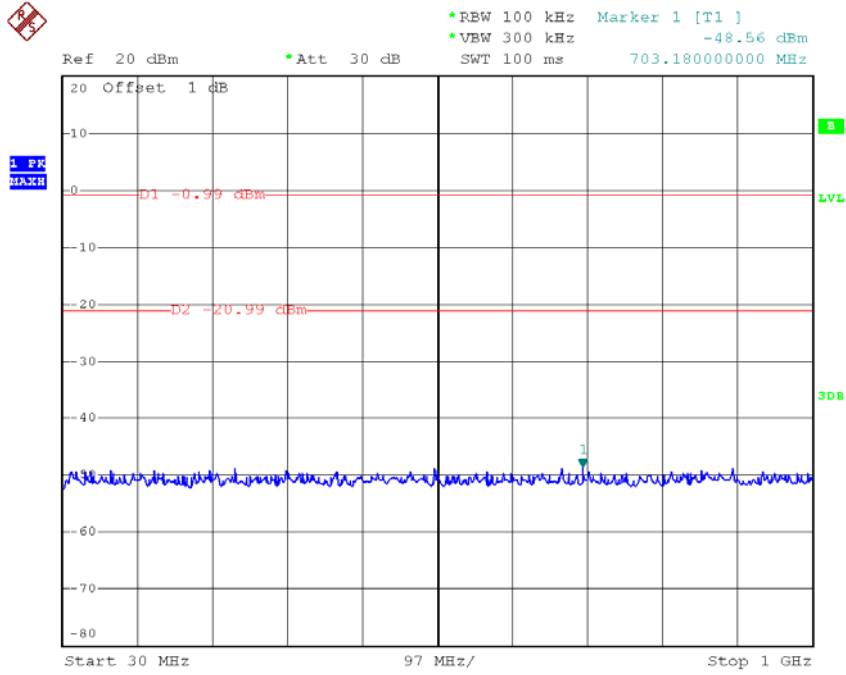
TX HT20 mode CH11



Date: 5.MAY.2014 14:14:37

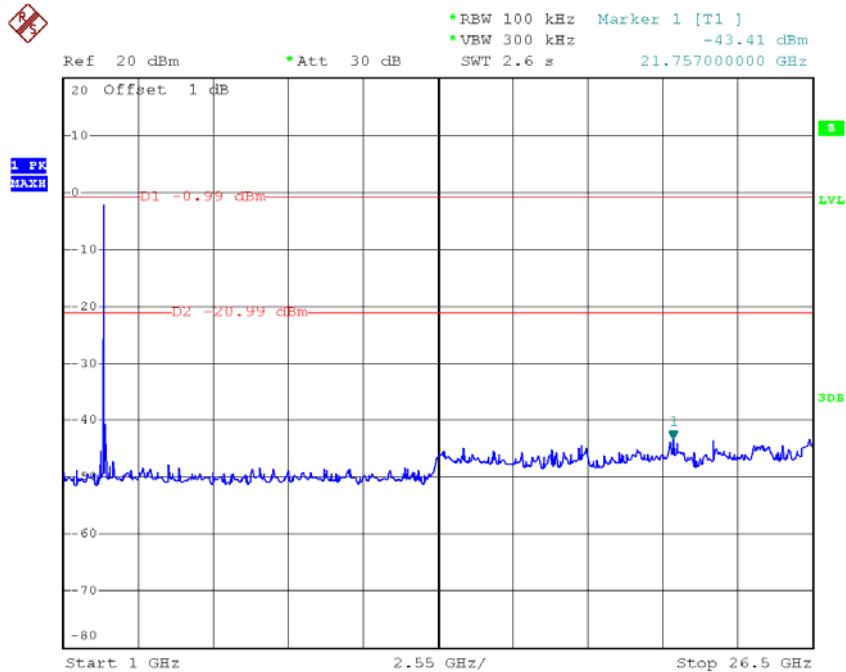


TX HT20 mode CH01 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:17:30

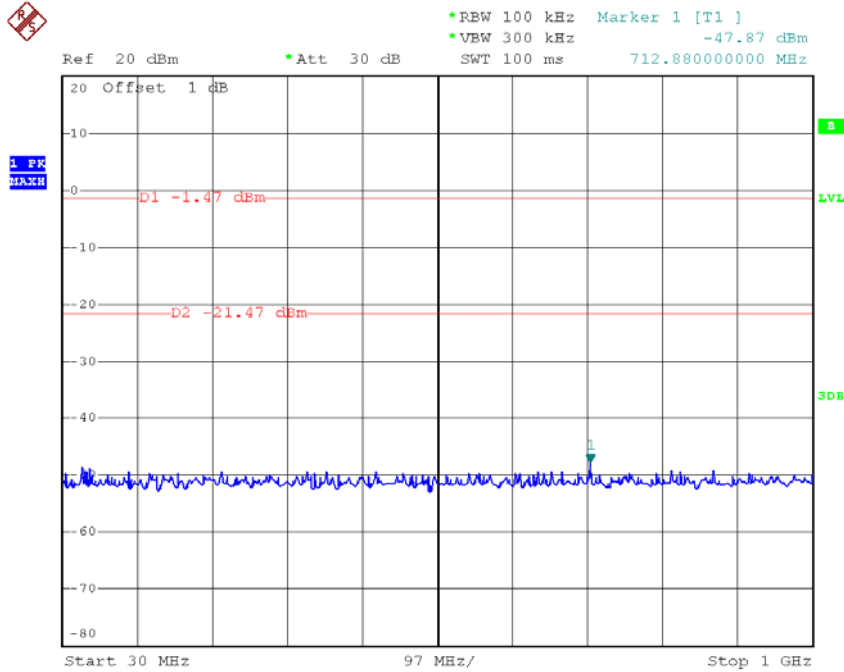
TX HT20 mode CH01 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:17:42

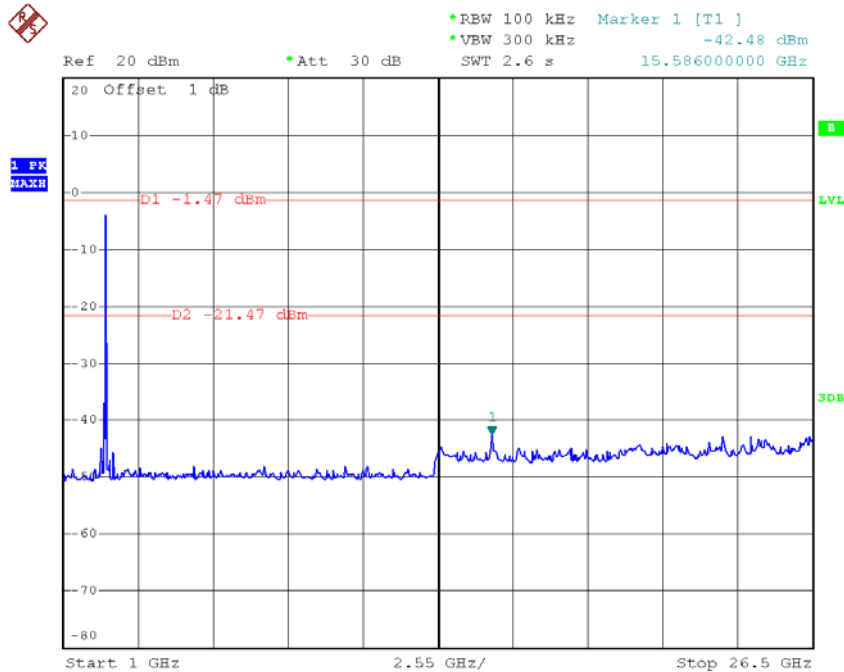


TX HT20 mode CH06 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:15:49

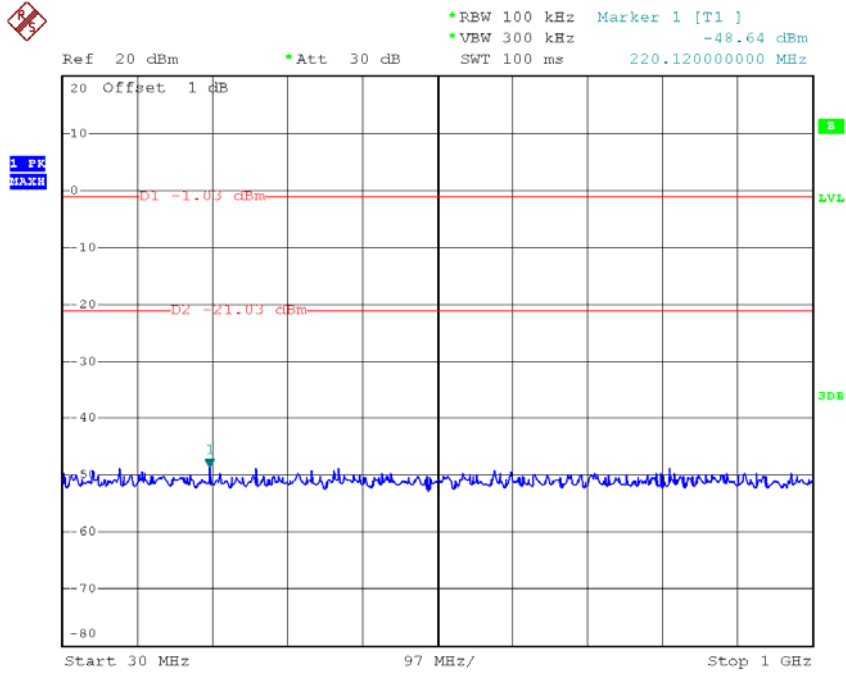
TX HT20 mode CH06 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:16:17

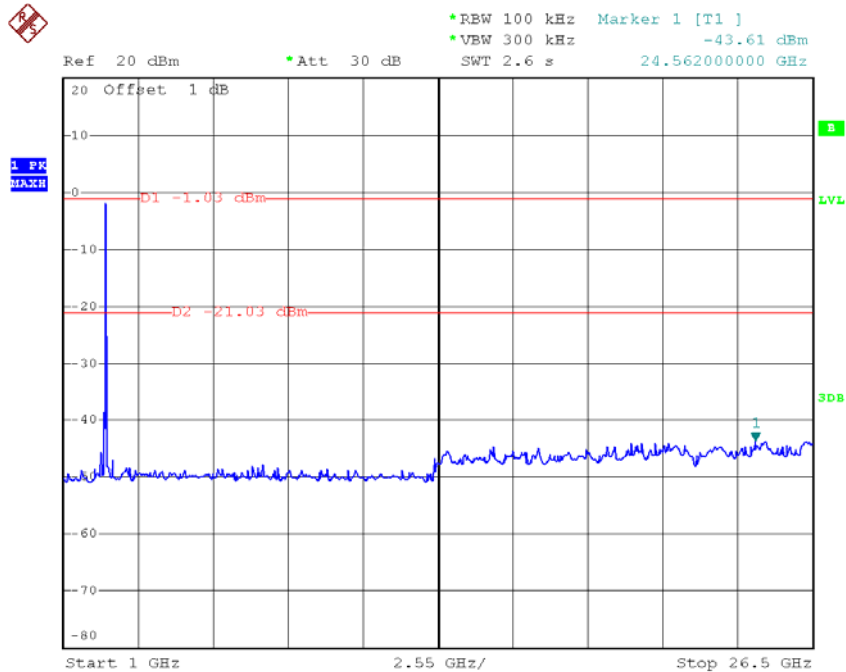


TX HT20 mode CH11 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:14:51

TX HT20 mode CH11 (1000MHz to 10th Harmonic)



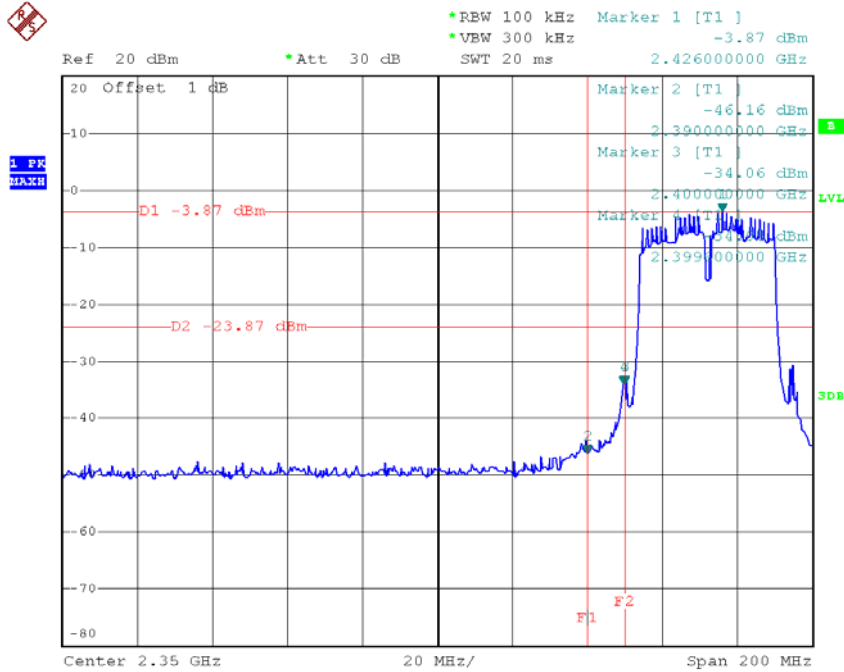
Date: 5.MAY.2014 14:15:11



Test Mode :	TX N-40M Mode_ANT 1
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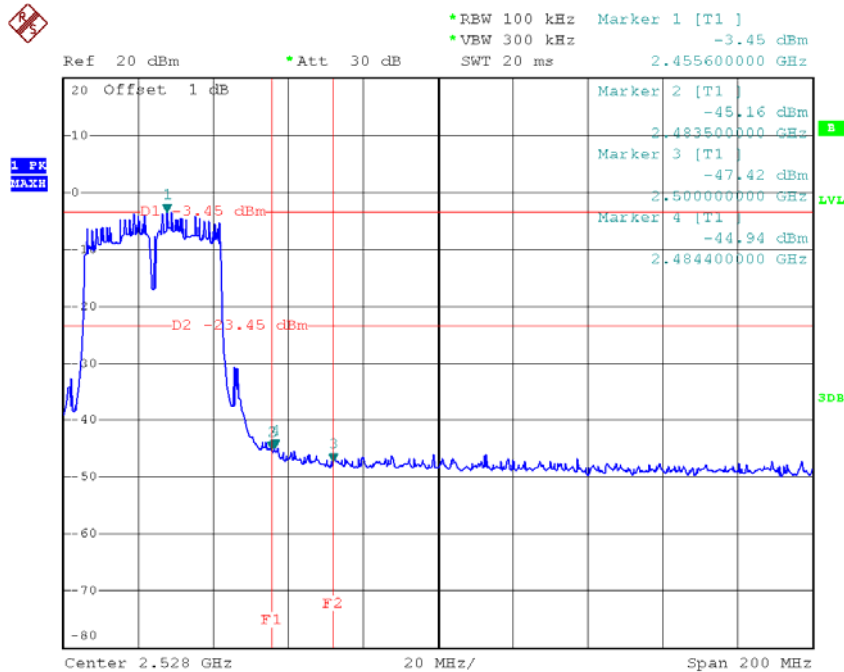


TX HT40 mode CH03



Date: 5.MAY.2014 14:39:41

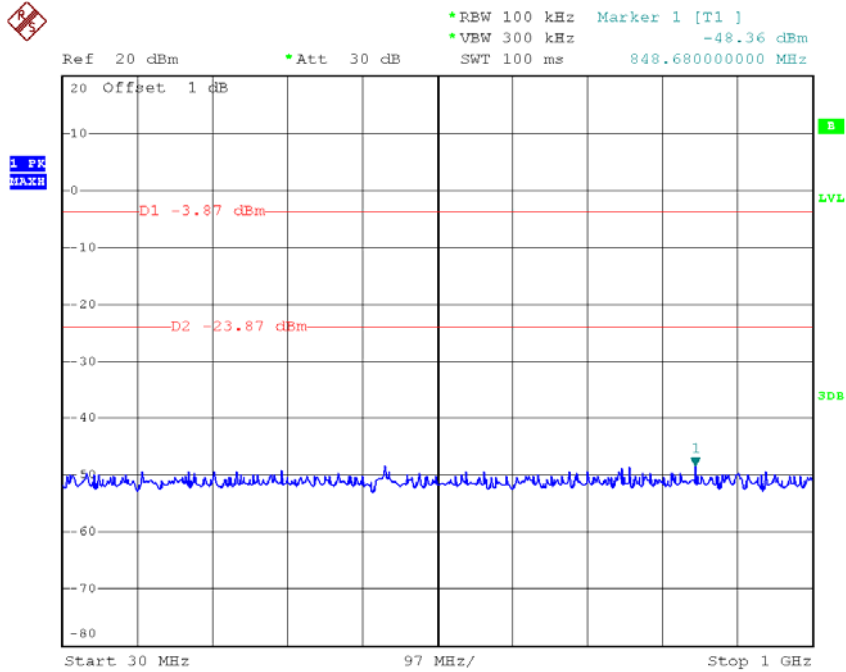
TX HT40 mode CH09



Date: 5.MAY.2014 14:37:15

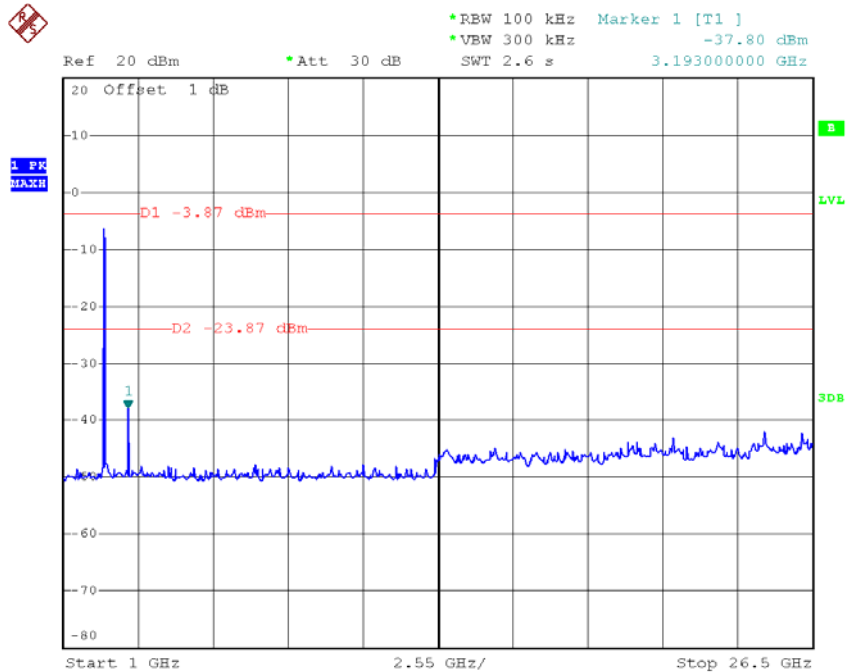


TX HT40 mode CH03 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:40:02

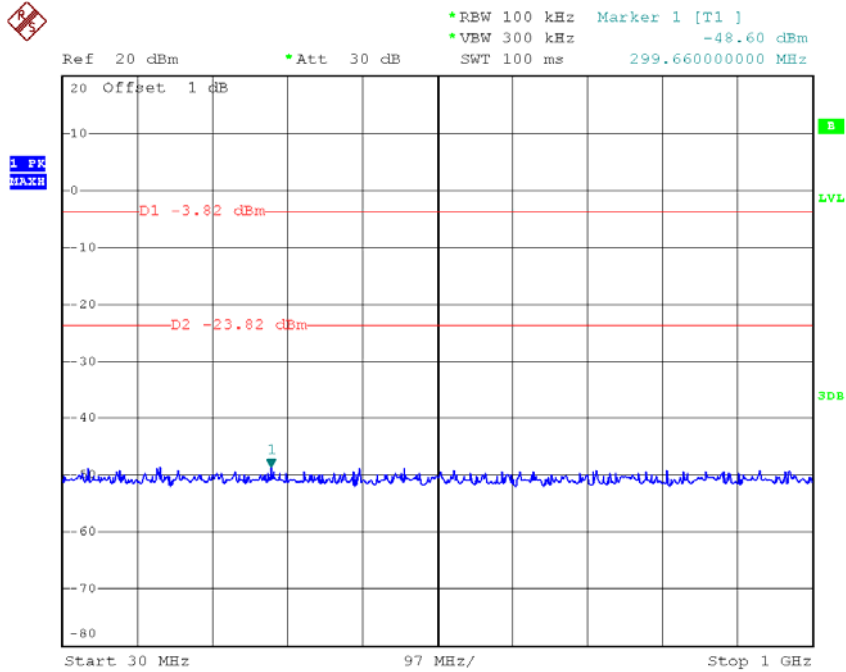
TX HT40 mode CH03 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:40:28

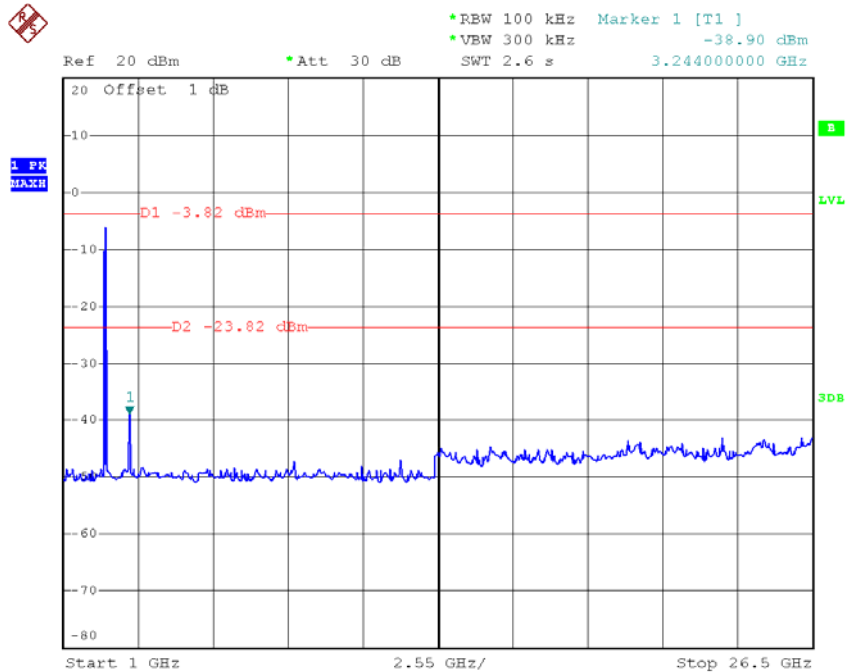


TX HT40 mode CH06 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:38:25

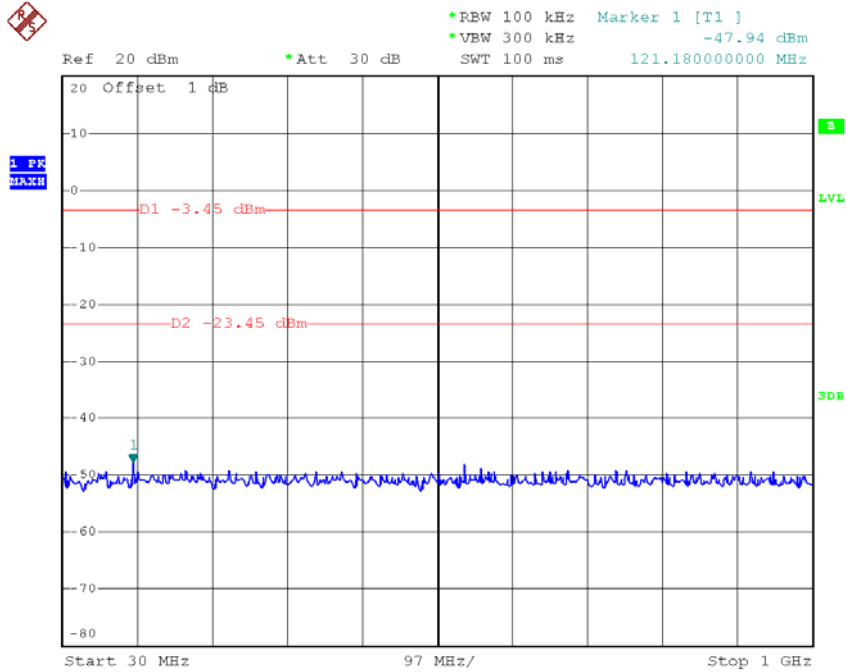
TX HT40 mode CH06 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:38:46

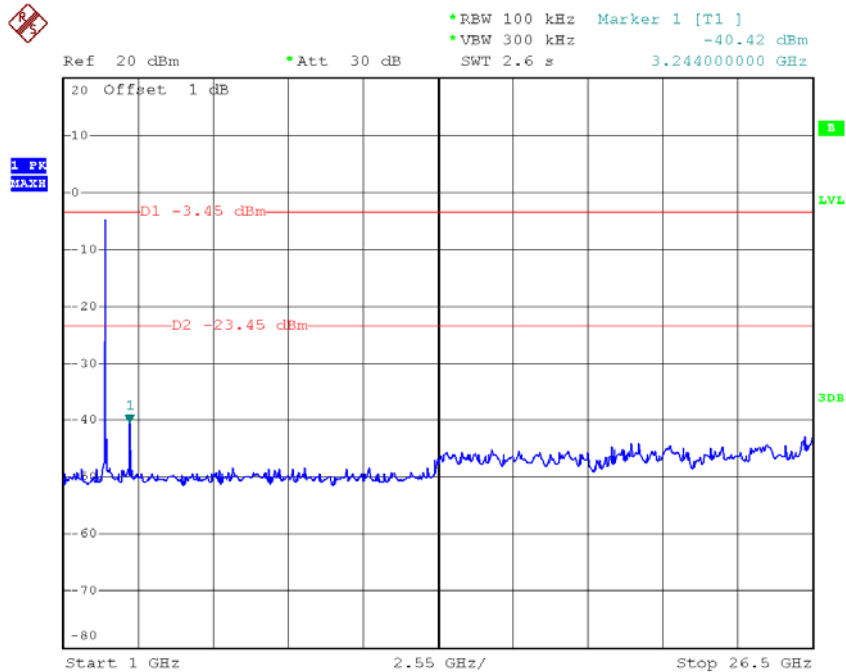


TX HT40 mode CH09 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:37:28

TX HT40 mode CH09 (1000MHz to 10th Harmonic)



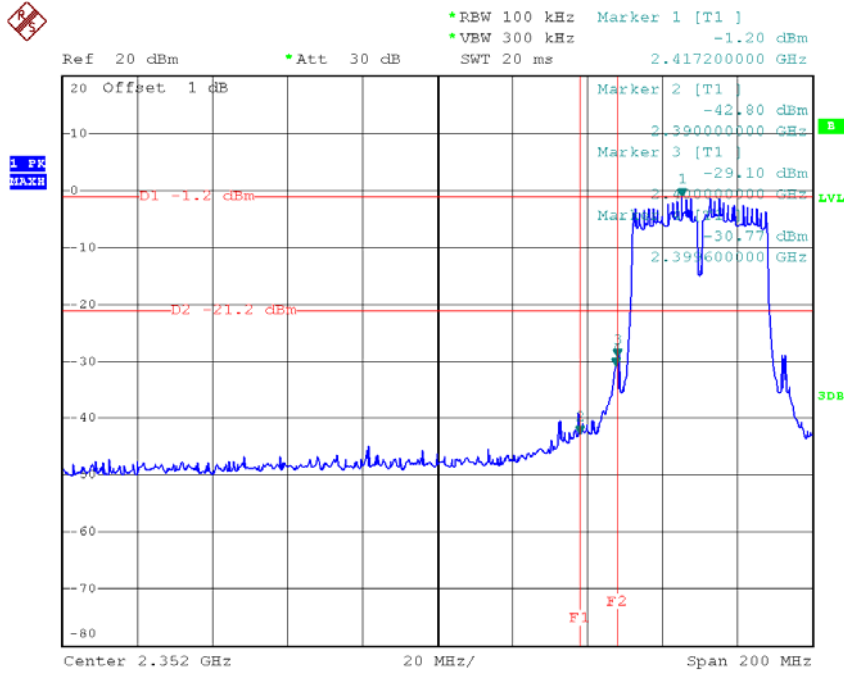
Date: 5.MAY.2014 14:37:46



Test Mode :	TX N-40M Mode_ANT 2
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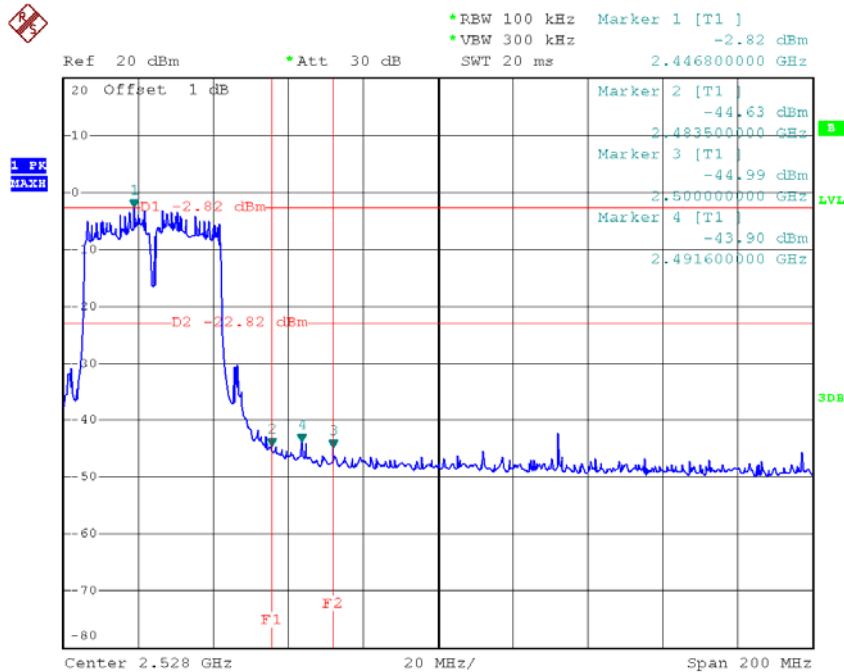


TX HT40 mode CH03



Date: 5.MAY.2014 14:21:10

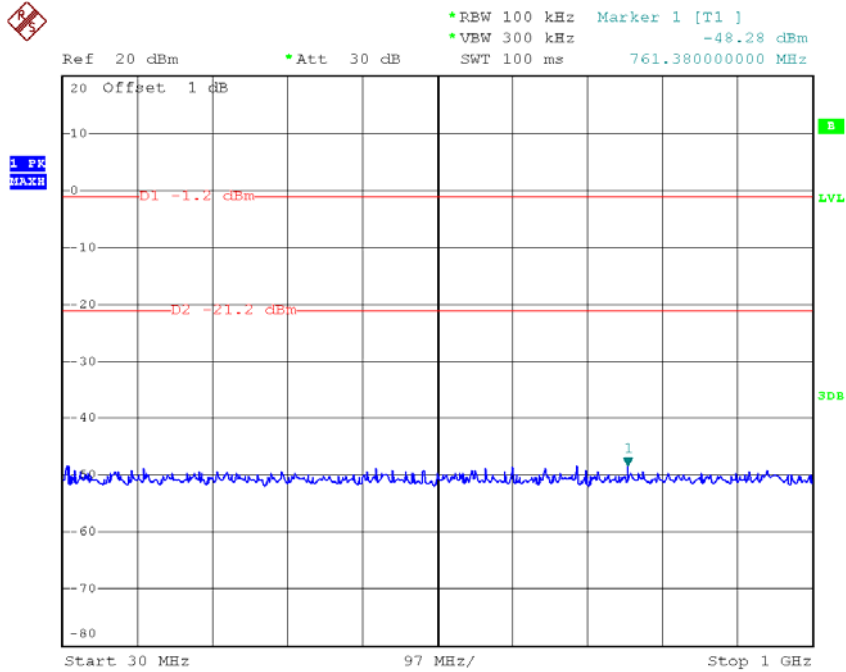
TX HT40 mode CH09



Date: 5.MAY.2014 14:27:21

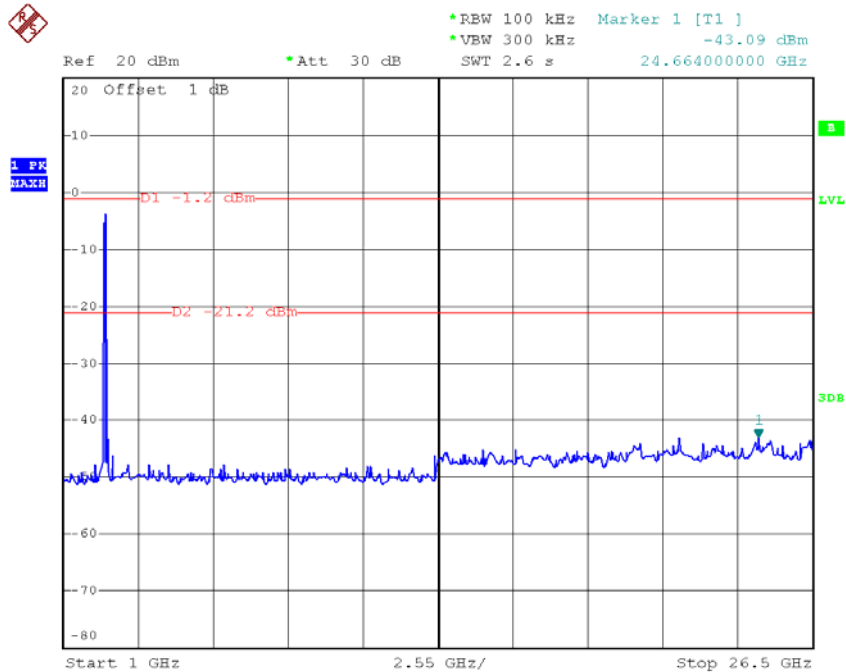


TX HT40 mode CH03 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:21:31

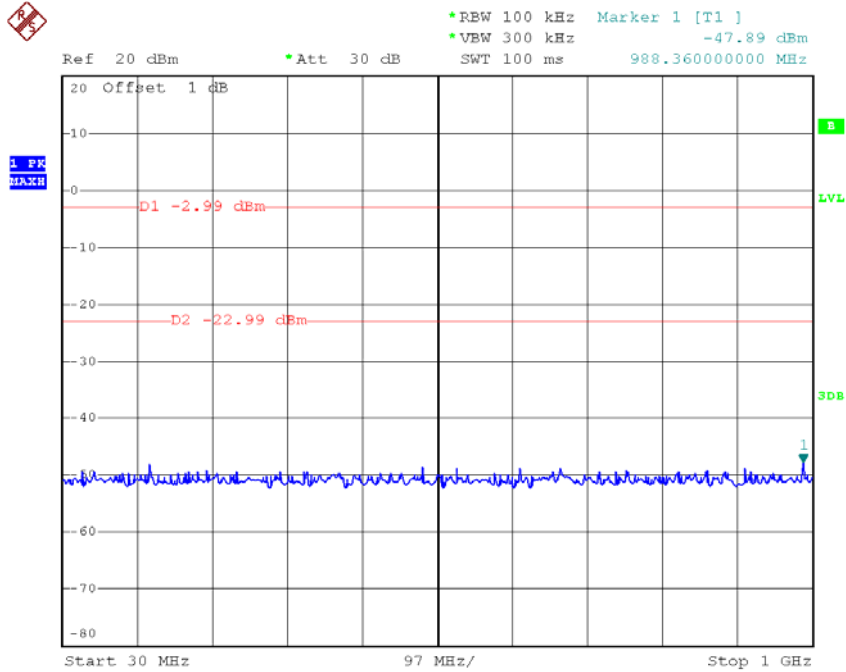
TX HT40 mode CH03 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:21:45

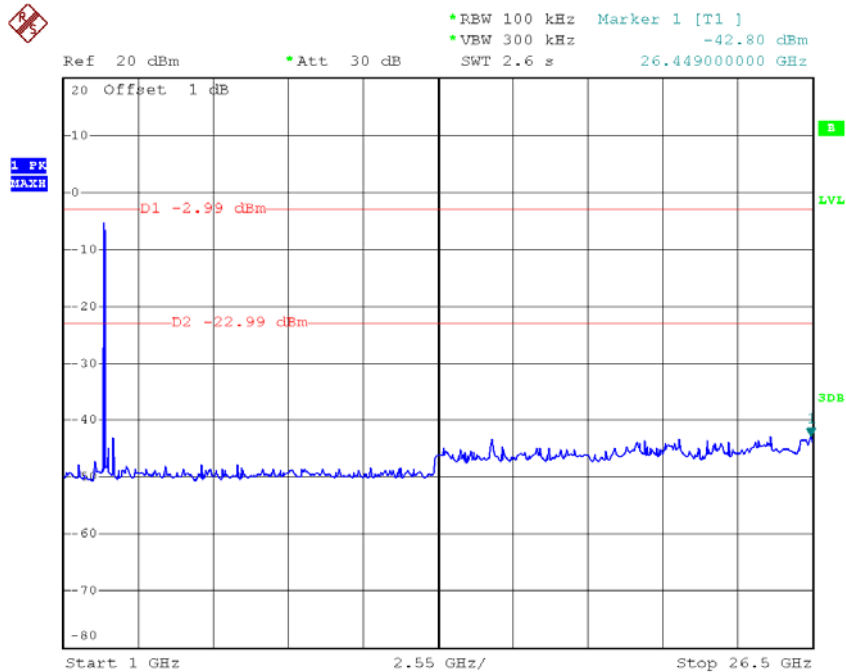


TX HT40 mode CH06 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:24:54

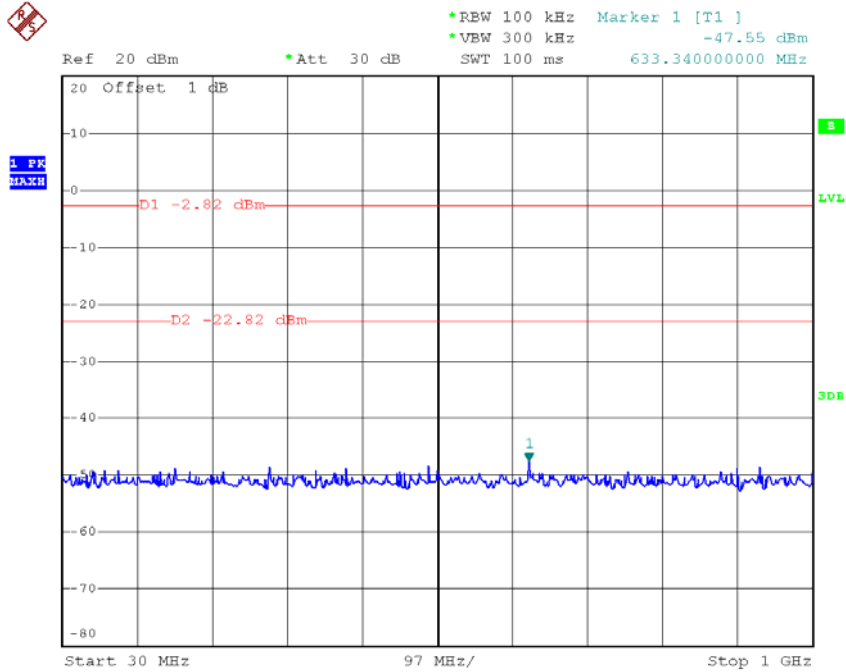
TX HT40 mode CH06 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:25:25

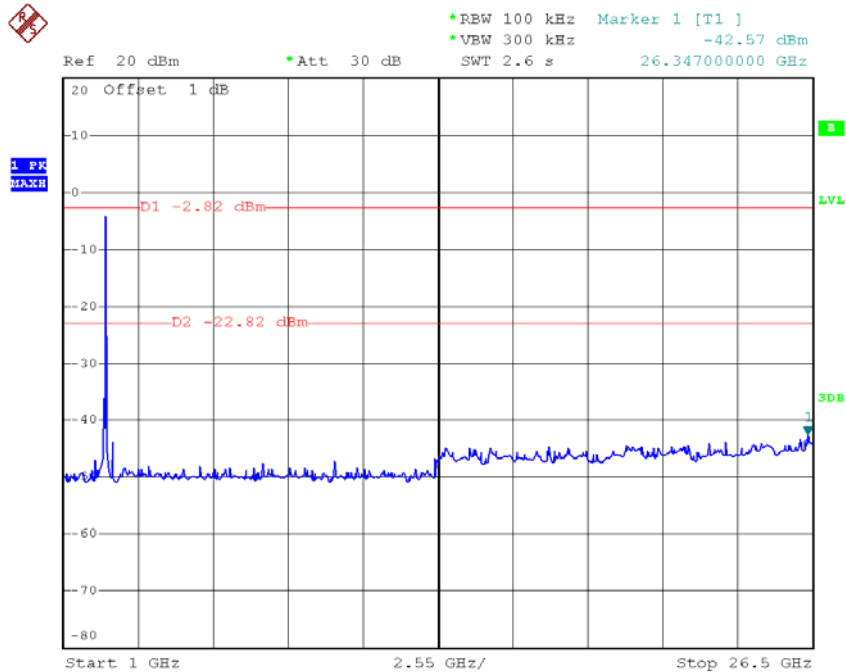


TX HT40 mode CH09 (30MHz to 1000MHz)



Date: 5.MAY.2014 14:27:35

TX HT40 mode CH09 (1000MHz to 10th Harmonic)



Date: 5.MAY.2014 14:27:56

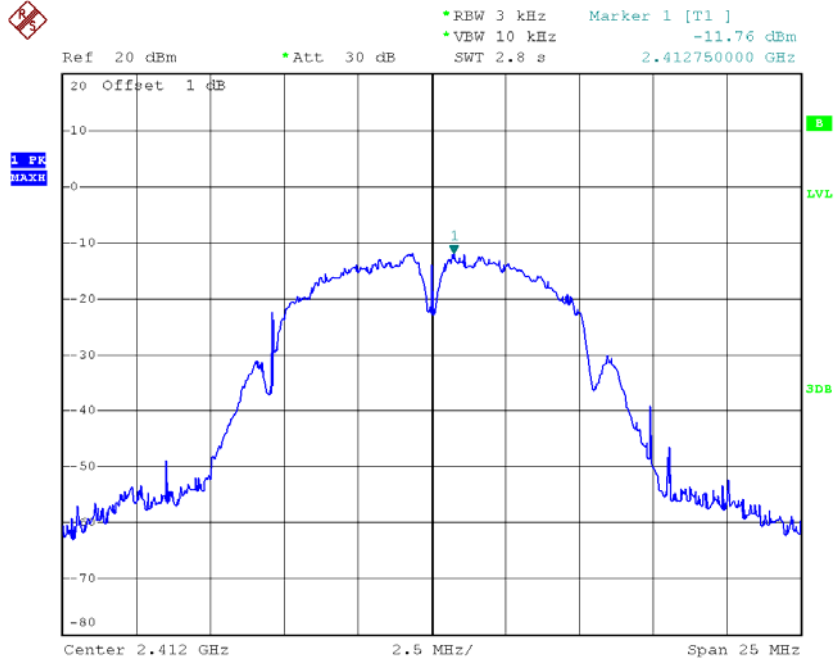


ATTACHMENT H - POWER SPECTRAL DENSITY



Test Mode :TX B Mode_CH01/06/11

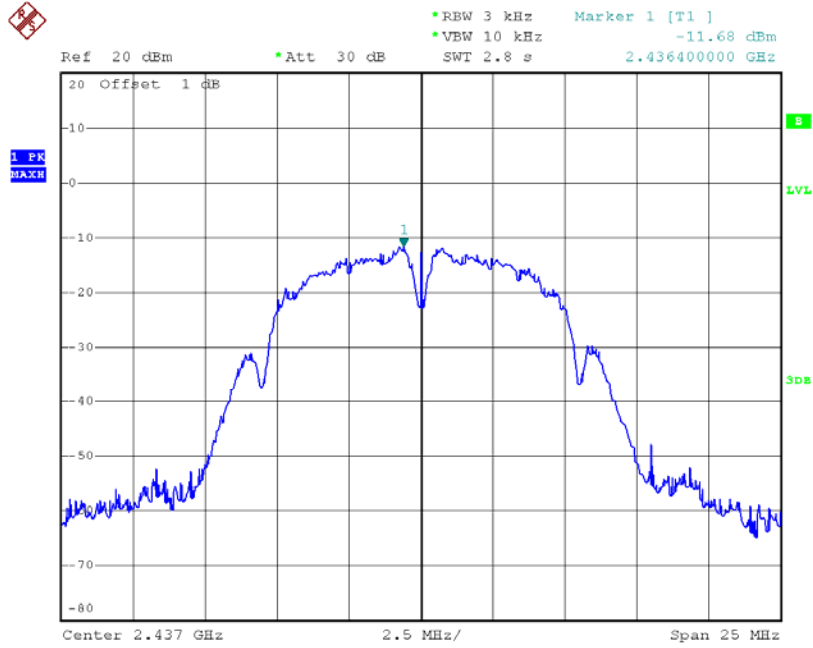
TX CH01



Date: 5.MAY.2014 12:08:23

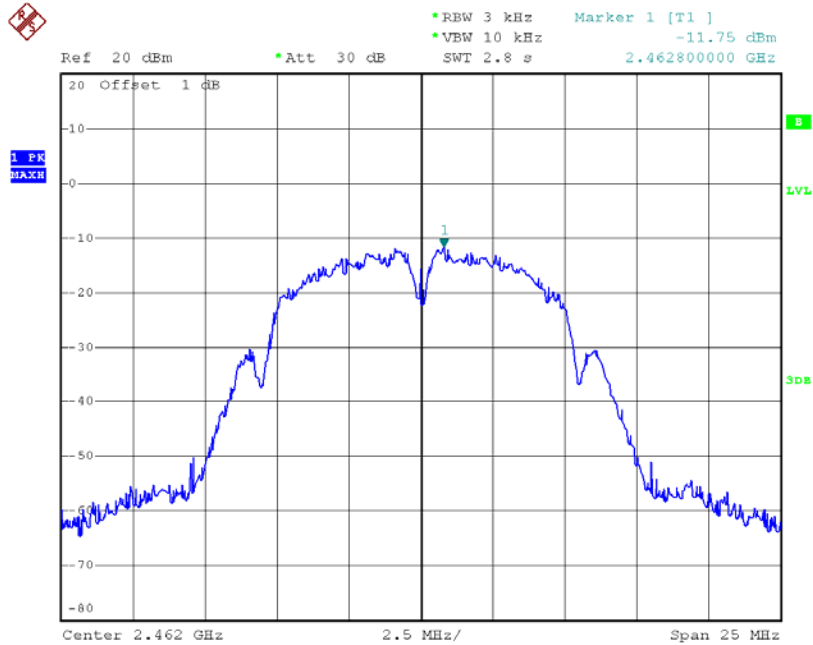


TX CH06



Date: 5.MAY.2014 12:19:02

TX CH11

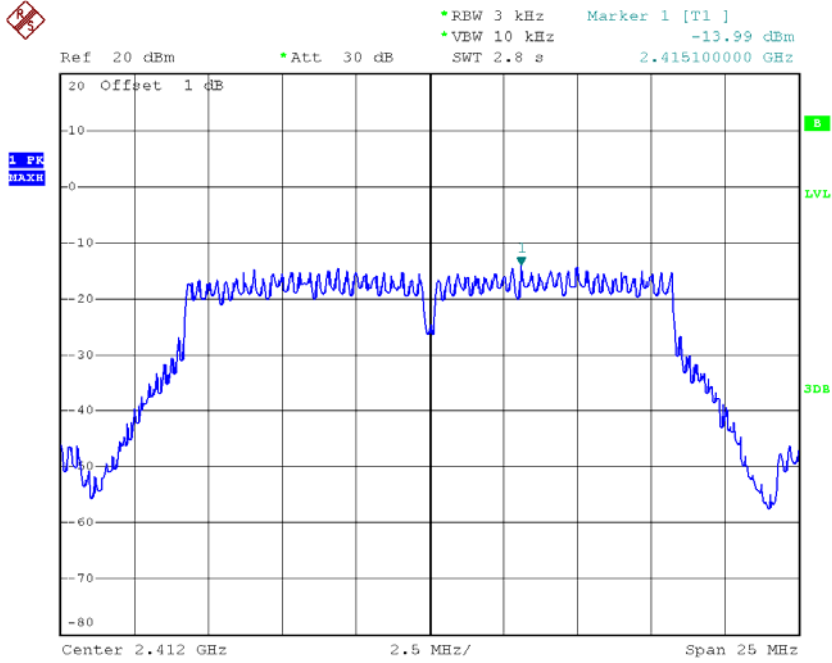


Date: 5.MAY.2014 12:18:42



Test Mode :TX G Mode_CH01/06/11

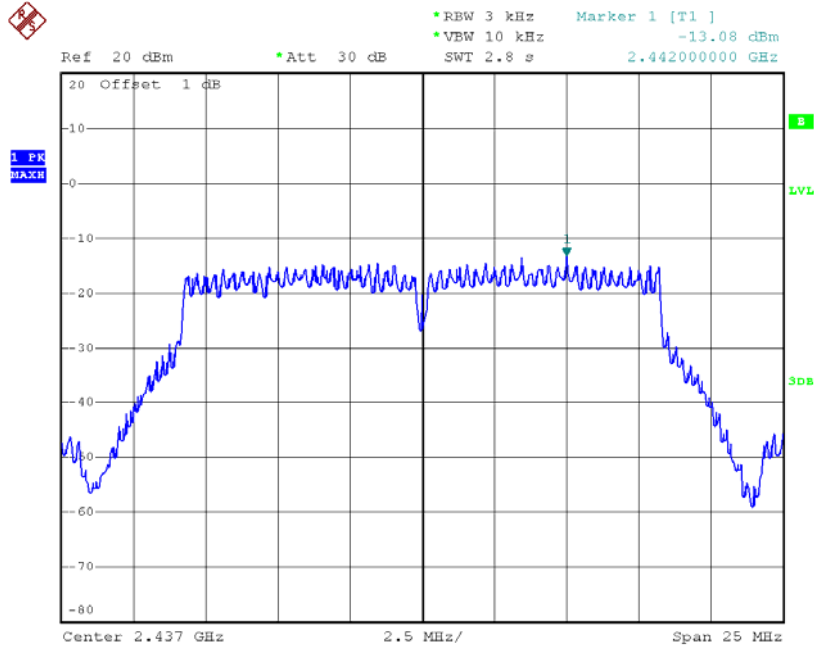
TX CH01



Date: 5.MAY.2014 13:50:57

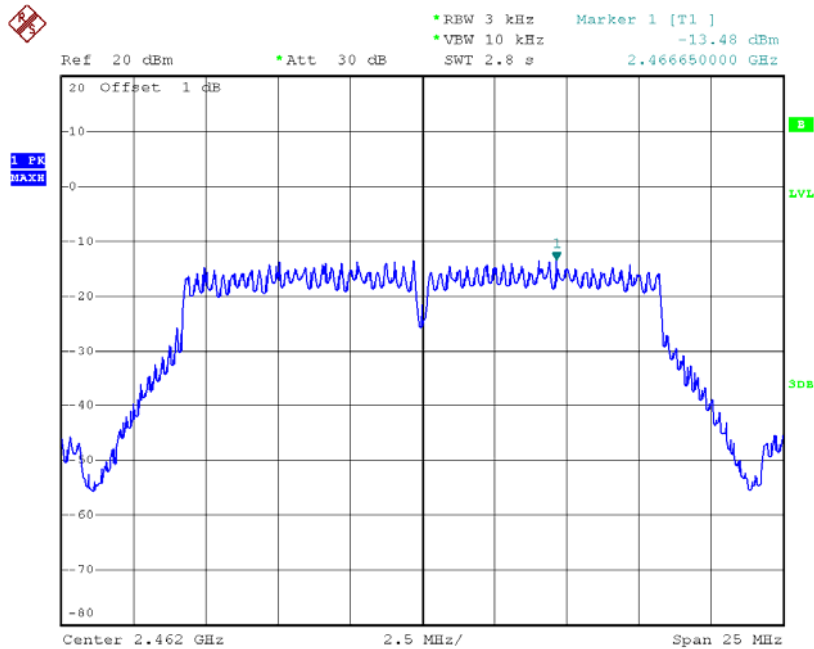


TX CH06



Date: 5.MAY.2014 13:49:17

TX CH11

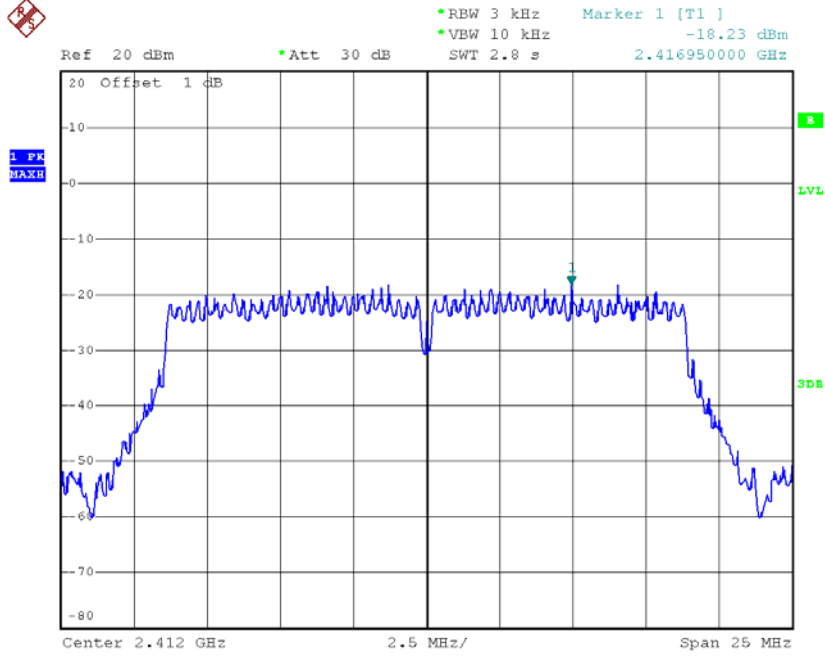


Date: 5.MAY.2014 13:53:22



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

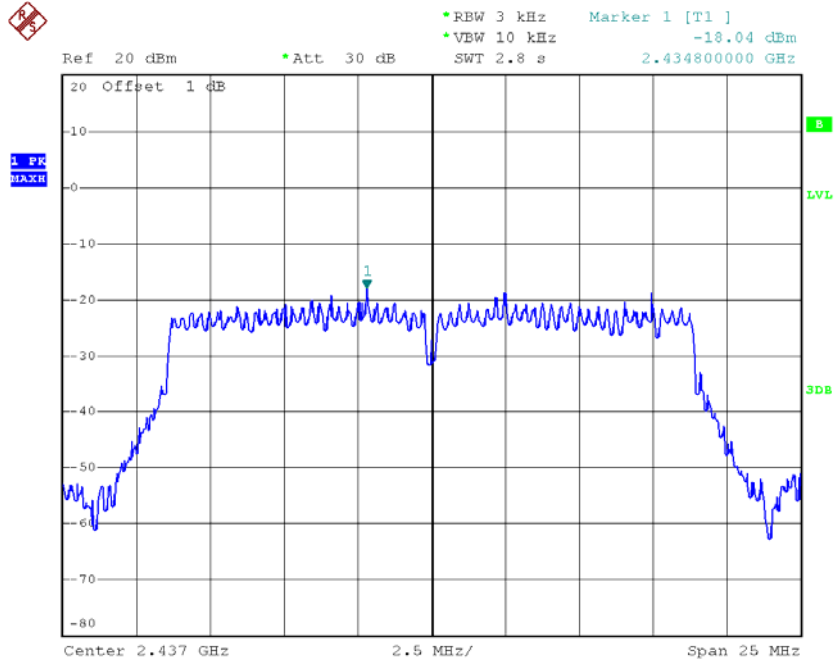
TX CH01



Date: 5.MAY.2014 14:09:09

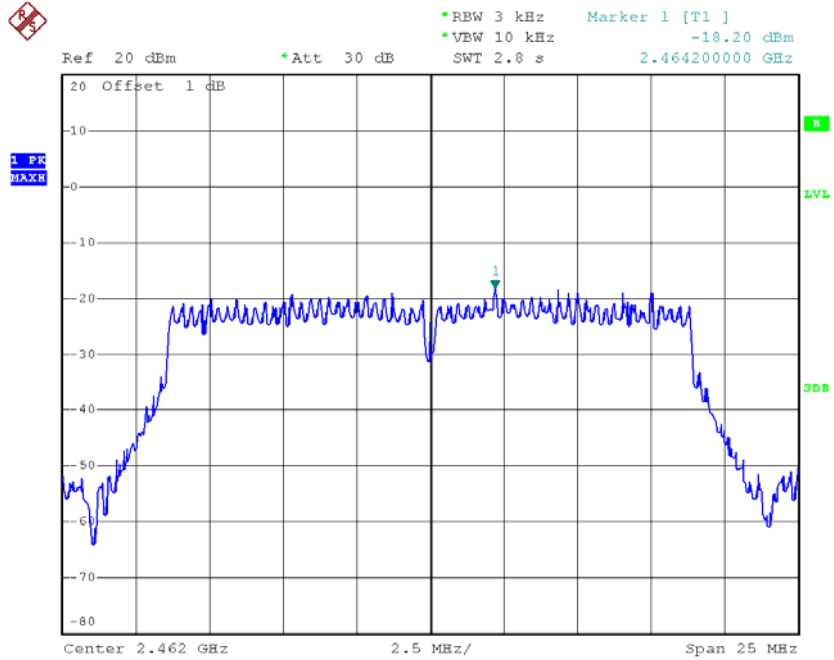


TX CH06



Date: 5.MAY.2014 14:08:20

TX CH11

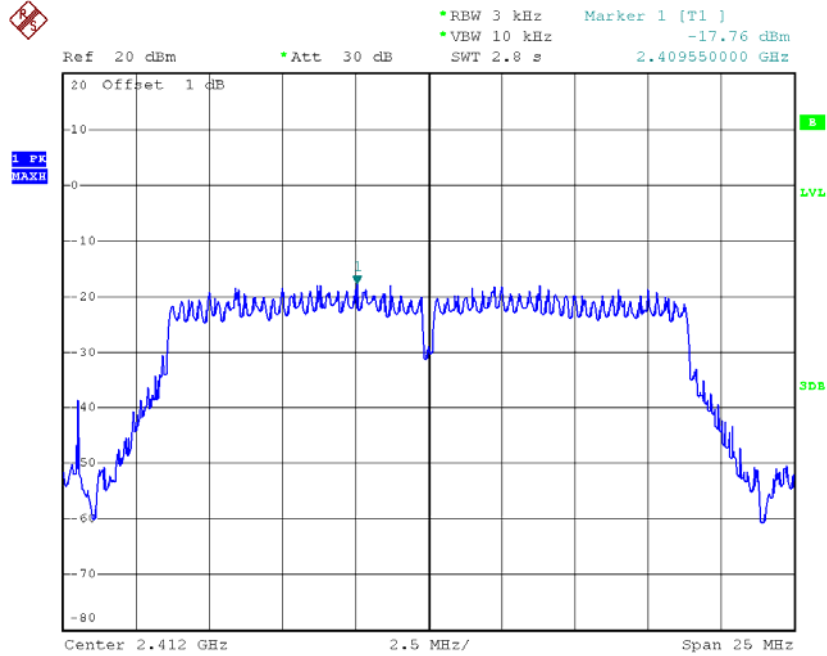


Date: 5.MAY.2014 14:07:51



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

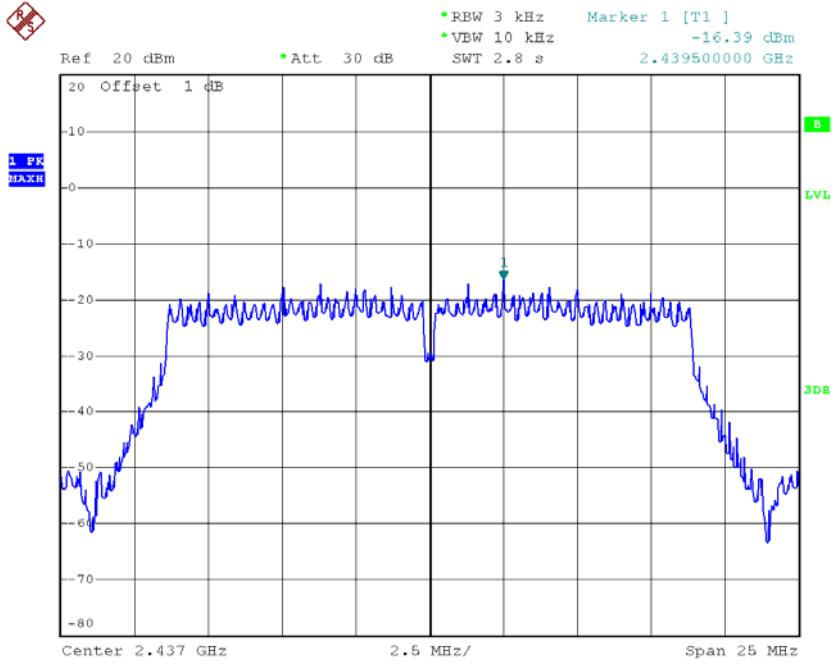
TX CH01



Date: 5.MAY.2014 14:10:35

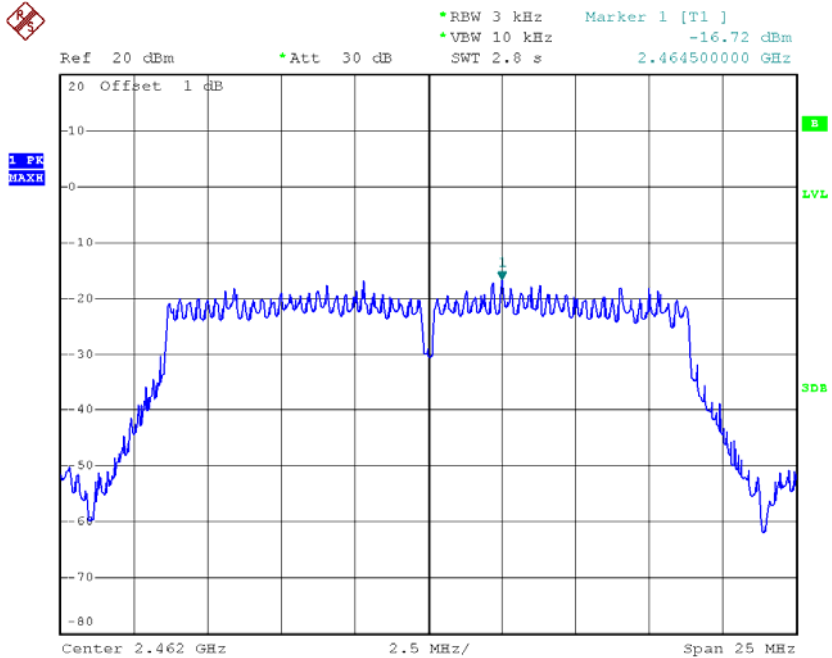


TX CH06



Date: 5.MAY.2014 14:12:34

TX CH11



Date: 5.MAY.2014 14:12:58

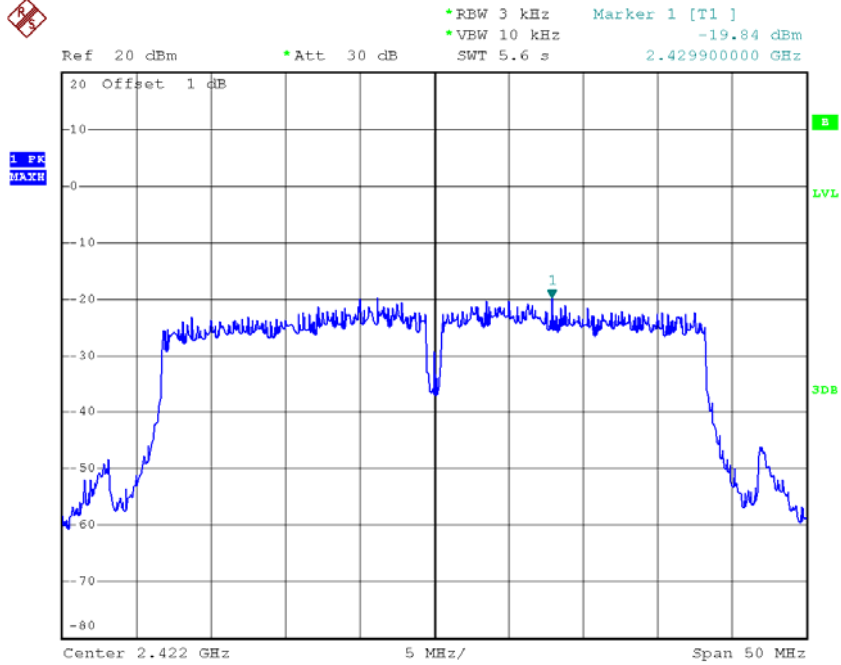


Test Mode : TX N-20M Mode_CH01/06/11_Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	Limit (dBm)
CH01	2412	-14.98	8
CH06	2437	-14.13	8
CH11	2462	-14.39	8



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

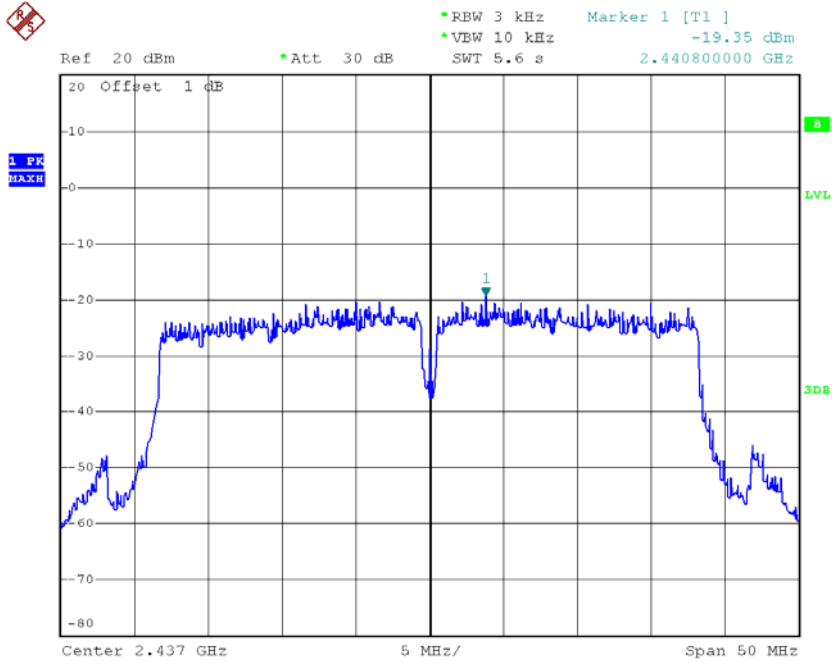
TX CH03



Date: 5.MAY.2014 14:32:32

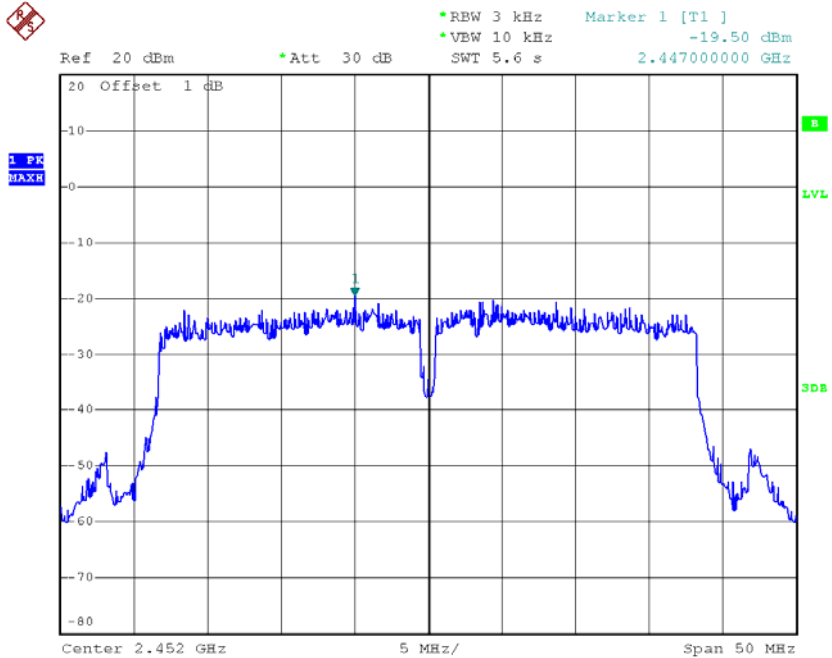


TX CH06



Date: 5.MAY.2014 14:35:07

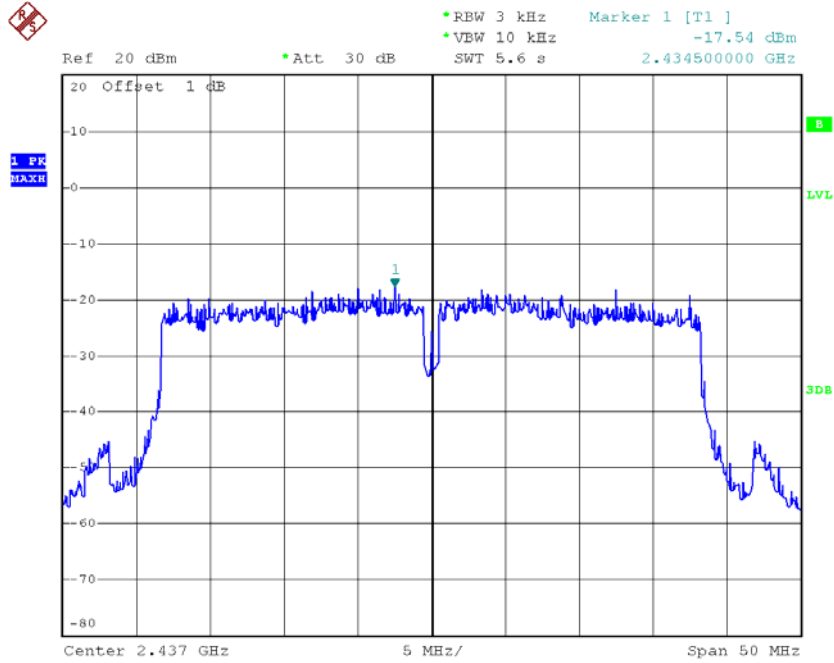
TX CH09



Date: 5.MAY.2014 14:35:23

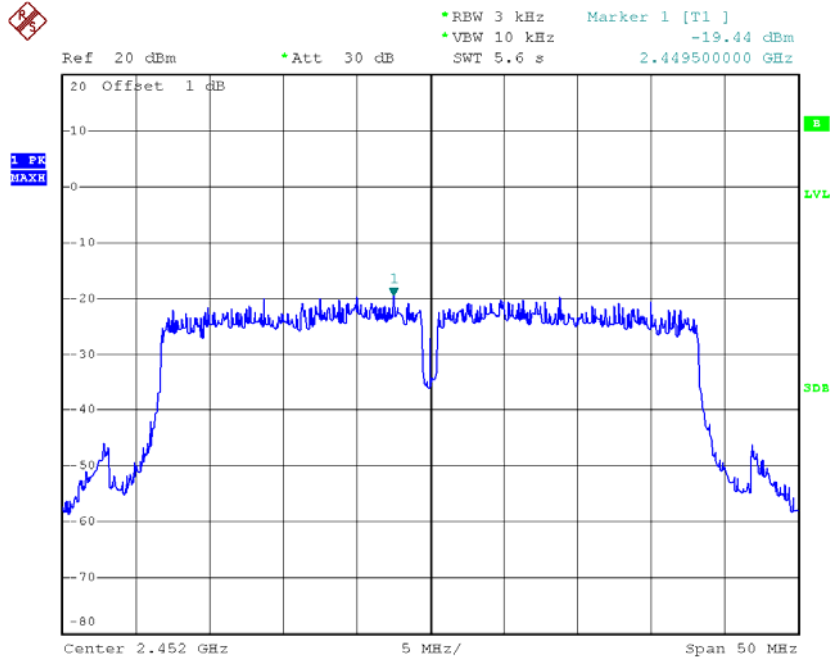


TX CH06



Date: 5.MAY.2014 14:29:54

TX CH09



Date: 5.MAY.2014 14:29:35



Test Mode : TX N-40M Mode_CH03/06/09_Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	Limit (dBm)
CH03	2422	-16.30	8
CH06	2437	-15.34	8
CH09	2452	-16.46	8