



Neutron Engineering Inc.

FCC&IC Radio Test Report

FCC ID: VOB-P2570

IC: 7361A-P2570

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

Project No. : 1404C046
Equipment : Wireless Controller
Model Name : P2570
Applicant : NVIDIA Corporation
Address : 2701 San Tomas Expressway Santa Clara, CA95050

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Apr. 09, 2014

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Testing Engineer : David Mao
(David Mao)

Technical Manager : Leo Hung
(Leo Hung)

Authorized Signatory : Steven Lu
(Steven Lu)

Neutron Engineering Inc.

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

TEL: 0769-8318-3000 FAX: 0769-8319-6000



Declaration

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Table of Contents	Page
1 . CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3 . GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
3.5 DESCRIPTION OF SUPPORT UNITS	14
4 . EMC EMISSION TEST	15
4.1 CONDUCTED EMISSION MEASUREMENT	15
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	15
4.1.2 TEST PROCEDURE	15
4.1.3 DEVIATION FROM TEST STANDARD	15
4.1.4 TEST SETUP	16
4.1.5 EUT OPERATING CONDITIONS	16
4.1.6 EUT TEST CONDITIONS	16
4.1.7 TEST RESULTS	16
4.2 RADIATED EMISSION MEASUREMENT	17
4.2.1 RADIATED EMISSION LIMITS	17
4.2.2 TEST PROCEDURE	20
4.2.3 DEVIATION FROM TEST STANDARD	20
4.2.4 TEST SETUP	20
4.2.5 EUT OPERATING CONDITIONS	21
4.2.6 EUT TEST CONDITIONS	21
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	22
4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)	22
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	22
5 . BANDWIDTH TEST	23
5.1 APPLIED PROCEDURES	23
5.1.1 TEST PROCEDURE	23
5.1.2 DEVIATION FROM STANDARD	23
5.1.3 TEST SETUP	23
5.1.4 EUT OPERATION CONDITIONS	23
5.1.5 EUT TEST CONDITIONS	23
5.1.6 TEST RESULTS	23



Table of Contents	Page
6 . MAXIMUM OUTPUT POWER TEST	24
6.1 APPLIED PROCEDURES / LIMIT	24
6.1.1 TEST PROCEDURE	24
6.1.2 DEVIATION FROM STANDARD	24
6.1.3 TEST SETUP	24
6.1.4 EUT OPERATION CONDITIONS	24
6.1.5 EUT TEST CONDITIONS	24
6.1.6 TEST RESULTS	24
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	25
7.1 APPLIED PROCEDURES / LIMIT	25
7.1.1 TEST PROCEDURE	25
7.1.2 DEVIATION FROM STANDARD	25
7.1.3 TEST SETUP	25
7.1.4 EUT OPERATION CONDITIONS	25
7.1.5 EUT TEST CONDITIONS	25
7.1.6 TEST RESULTS	25
8 . POWER SPECTRAL DENSITY TEST	26
8.1 APPLIED PROCEDURES / LIMIT	26
8.1.1 TEST PROCEDURE	26
8.1.2 DEVIATION FROM STANDARD	26
8.1.3 TEST SETUP	26
8.1.4 EUT OPERATION CONDITIONS	26
8.1.5 EUT TEST CONDITIONS	26
8.1.6 TEST RESULTS	26
9 . MEASUREMENT INSTRUMENTS LIST	27
10 . EUT TEST PHOTO	29
ATTACHMENT A - CONDUCTED EMISSION	33
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	36
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	38
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	45
ATTACHMENT E - BANDWIDTH	70
ATTACHMENT F - MAXIMUM OUTPUT POWER	75
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	77
ATTACHMENT H - POWER SPECTRAL DENSITY	86



REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FICP-1-1404C046	Original Issue.	May. 20, 2014



1. CERTIFICATION

Equipment : Wireless Controller
Brand Name : NVIDIA
Model Name : P2570
Applicant : NVIDIA Corporation
Manufacturer : NVIDIA Corporation
Address : 2701 San Tomas Expressway Santa Clara, CA95050
Factory : NVIDIA Corporation
Address : 2701 San Tomas Expressway Santa Clara, CA95050
Date of Test : Apr. 09, 2014~ May. 19, 2014
Test Item : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009
Canada RSS-210:2010
RSS-GEN Issue 3, Dec 2010

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-FICP-1-1404C046) 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 Canada RSS-210:2010; RSS-GEN Issue 3, Dec 2010				
Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207	RSS-GEN 7.2.2	Conducted Emission	PASS	
15.247(d)	RSS-210 Annex 8 (A8.5)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	RSS-210 Annex 8 (A8.2(a))	6dB Bandwidth	PASS	
15.247(b)(3)	RSS-210 Annex 8 (A8.4(4))	Peak Output Power	PASS	
15.247(e)	RSS-210 Annex 8 (A8.2(b))	Power Spectral Density	PASS	
15.203	-	Antenna Requirement	PASS	
15.209/15.205	RSS-210 Annex 8 (A8.5)	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

Neutron's test firm number for IC: 4428B-1

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 expended 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	Wireless Controller	
Brand Name	NVIDIA	
Model Name	P2570	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 24/18/12/9/6 Mbps
	Output Power (Max.)	802.11b: 4.43dBm 802.11g: 12.89dBm
Power Source	#1 Supplied from Lithium-ion Polymer rechargeable battery. 1)Model:PT553759 2)Model:LC18650-2200mAh #2 Supplied from USB port.	
Power Rating	#1 1) DC 3.7V 1250mAh 2) DC 3.6V 2200mAh #2 DC 5V 0.5A	
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							
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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Yageo Corp.	ANT5320LL24R2455A	Chip	N/A	2.17
2	Yageo Corp.	ANT5320LL24R2455A	Chip	N/A	2.17

Note:

The EUT incorporates a SISO function and only one antenna used per time

4.

Operating Mode	1TX	2TX
TX Mode		
802.11b	V (ANT 1 or ANT 2)	-
802.11g	V (ANT 1 or 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 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 3	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

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DSSS (1Mbps)
802.11g mode: OFDM (6Mbps)
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

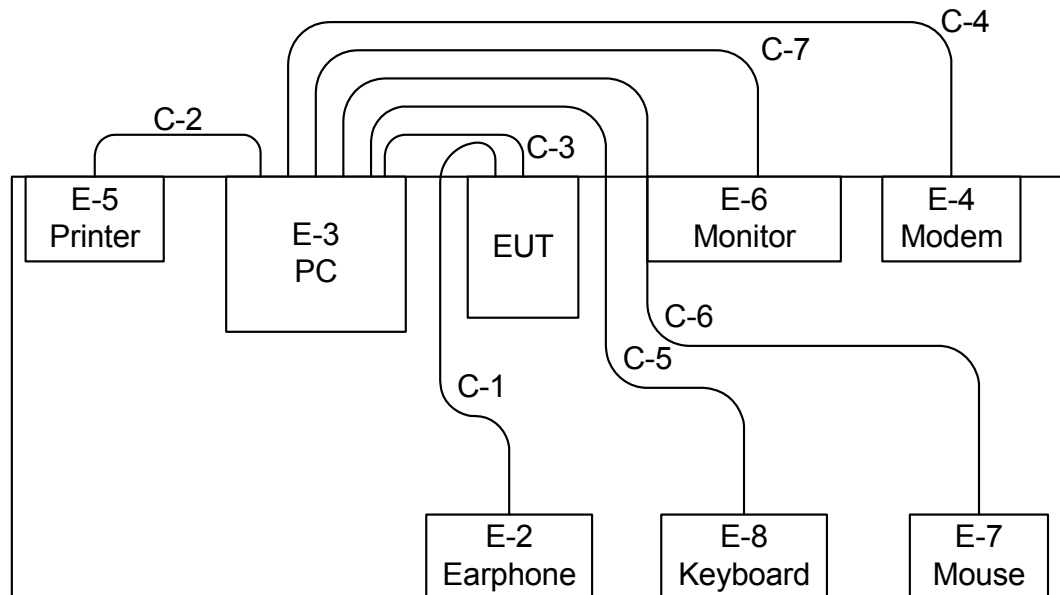
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software version	Tera Term		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	:SPW 0	:SPW 0	:SPW 0
IEEE 802.11g OFDM	:SPW 0	:SPW 0	:SPW 0



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

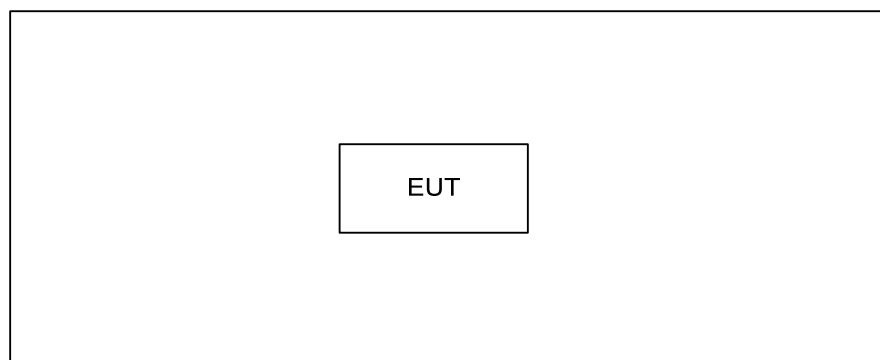
Conducted Emissions TX Mode:



- C-1 Audio Cable
- C-2 Parallel Cable
- C-3 USB Cable
- C-4 RS232 Cable
- C-5 USB Cable
- C-6 USB Cable
- C-7 D-Sub Cable

E-1
Host

Radiated Emissions TX Mode:



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	Series No.	Note
E-1	Host	NVIDIA	P2450	VOB-P2450	N/A	
E-2	Earphone	Apple	N/A	DOC	N/A	
E-3	PC	DELL	DCSM	DOC	G7K832X	
E-4	Modem	ACEEX	DM-1414V	N/A	0603002131	
E-5	Printer	SII	DPU-414	DOC	018507 B	
E-6	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180-6AG-1 WNS	
E-7	USB Mouse	Dell	MO56UOA	DOC	G01003HO	
E-8	USB Keyboard	Dell	L100	DOC	CNORH6596589085C00 U7	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5m	
C-2	YES	NO	1.5m	
C-3	YES	YES	1.5m	
C-4	YES	NO	1.5m	
C-5	YES	NO	1.5m	
C-6	YES	NO	1.5m	
C-7	YES	YES	1.5m	

Note:

(1) For detachable type I/O cable should be specified the length in m in 『Length』 column.



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

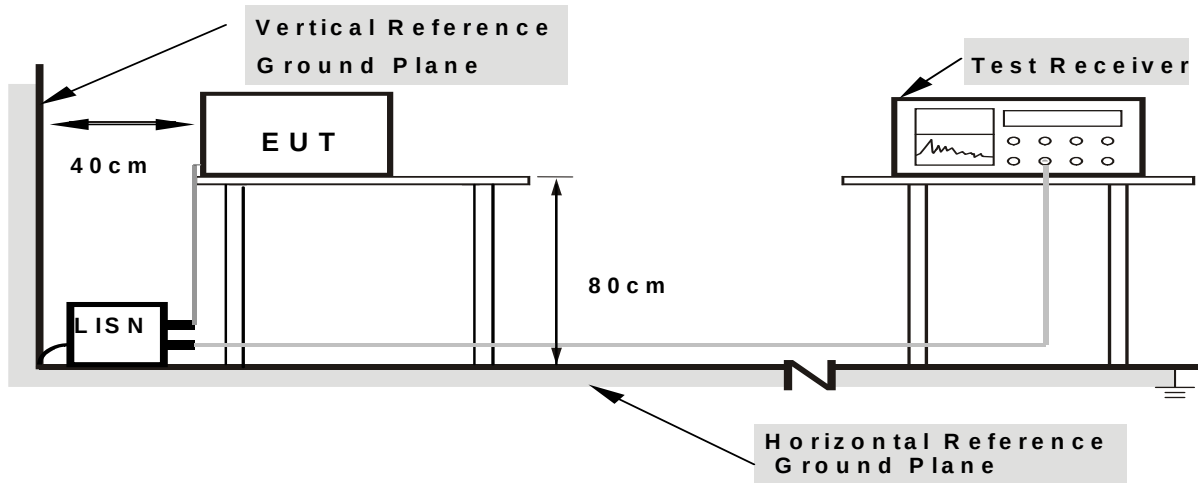
4.1.2 TEST PROCEDURE

- 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 cm from other units and other metal planes

Note: The EUT does not connect to the LISN directly but through a PC. The detail setup is shown on chapter 3.4.

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: DC 5V(Powered through USB cable)

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) & RSS-210 section 2.2& Annex 8 (A8.5), then the 15.209(a)& RSS-Gen 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



DUTY CYCLE: TX B 2412MHz

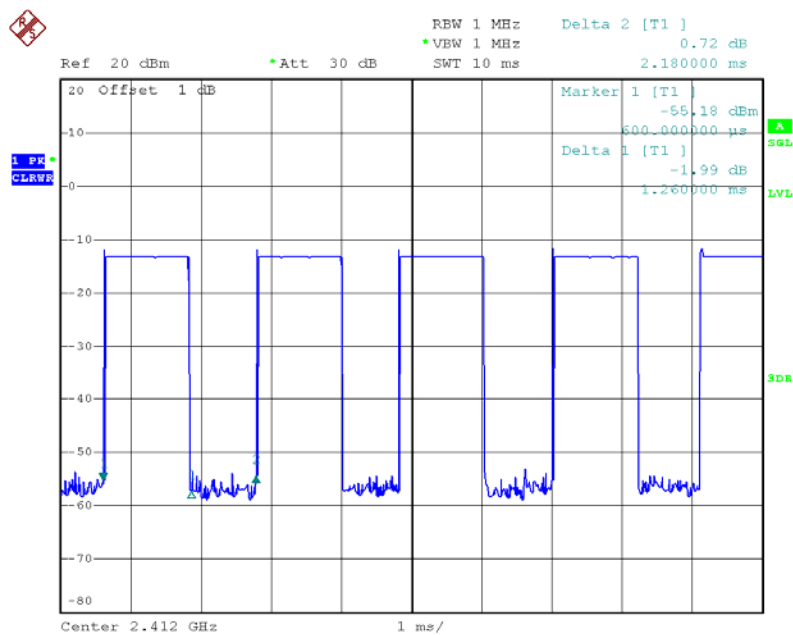
Duty Cycle=ON/(ON+OFF)

Duty Cycle=1.26/2.18

AV=Peak Value+20log(Duty Cycle)

AV=PK-4.76

On Time = 1.26 msec



Date: 18.MAY.2014 13:20:24

Note:For 802.11b mode the average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle) , Final AV=PK-4.76



DUTY CYCLE: TX G 2412MHz

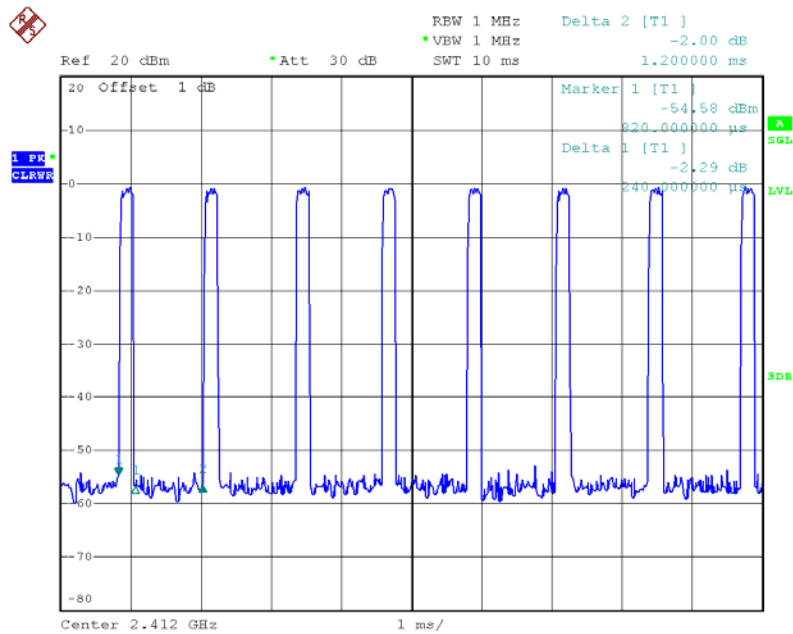
Duty Cycle=ON/(ON+OFF)

Duty Cycle=0.24/1.20

AV=Peak Value+20log(Duty Cycle)

AV=PK-13.98

On Time =0.24 msec



Date: 18.MAY.2014 13:33:55

Note:For 802.11g mode the average value of fundamental frequency is:
Average = Peak value + 20log(Duty cycle) , Final AV=PK-13.98

4.2.2 TEST PROCEDURE

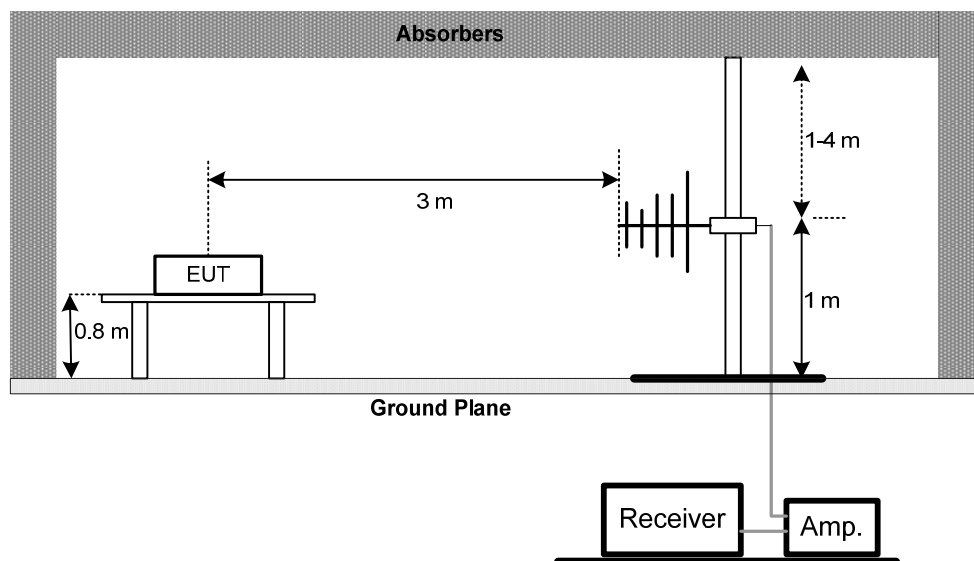
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

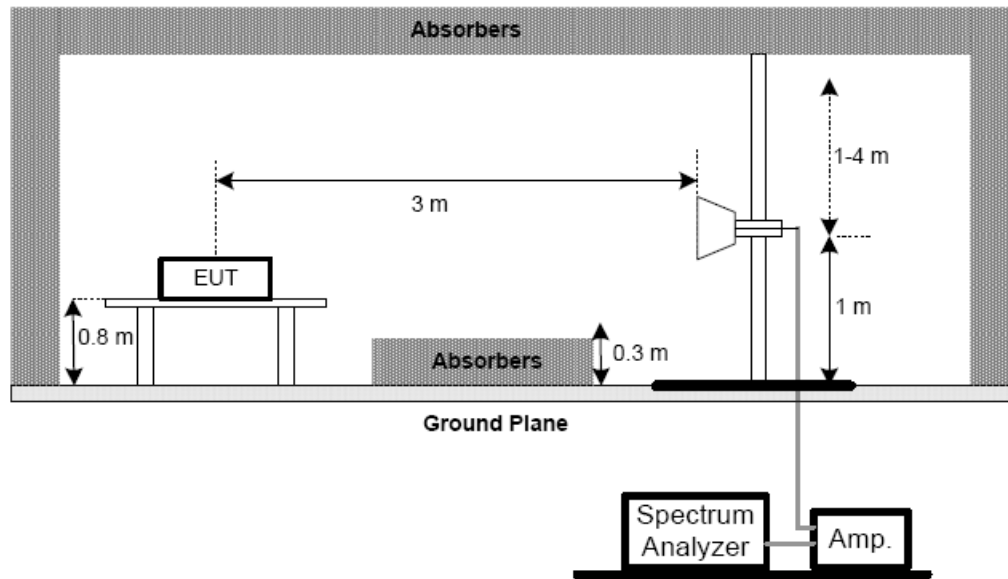
No deviation

4.2.4 TEST SETUP

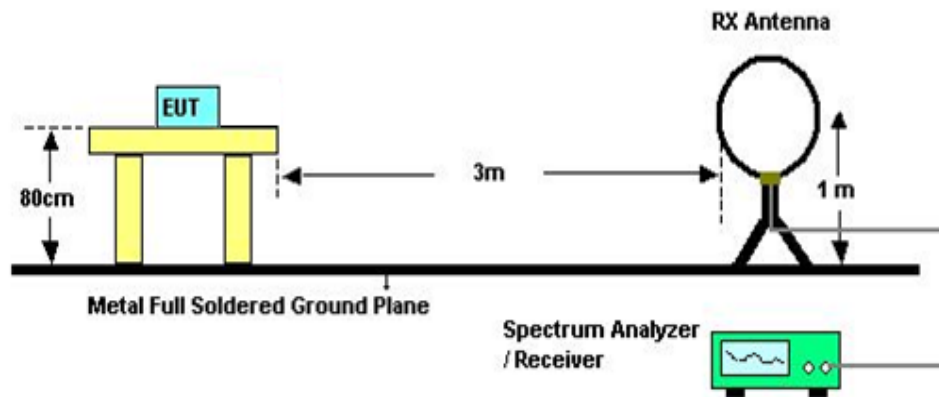
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55%
Test Voltage: DC 3.7V(Powered by battery)



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.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (2) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (3) EUT Orthogonal Axis:
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (4) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



5. BANDWIDTH TEST

5.1 Applied procedures

FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-210			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2) RSS-GEN section 4.6.1 RSS-210 Annex 8 (A8.2(a))	Bandwidth	2400-2483.5	PASS

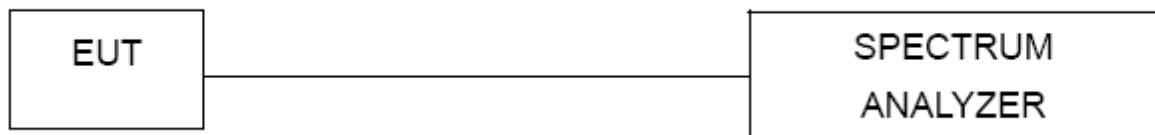
5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55%
Test Voltage: DC 3.7V(Powered by battery)

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/ RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-210 Annex 8.4(4)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

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

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55%
Test Voltage: DC 3.7V(Powered by battery)

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: DC 3.7V(Powered by battery)

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 / RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-210 Annex 8(A8.2(b))	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

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

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55%
Test Voltage: DC 3.7V(Powered by battery)

8.1.6 TEST RESULTS

Please refer to the Attachment H.



9. MEASUREMENT INSTRUMENTS LIST

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

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EMCO	3142C	00066462	Mar. 29, 2015
2	Antenna	EMCO	3142C	00066464	Mar. 29, 2015
3	Amplifier	Agilent	8447D	2944A11203	Nov. 11, 2014
4	Amplifier	Agilent	8447D	2944A11204	Nov. 11, 2014
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 11, 2014
6	RF Pre-selector	Agilent	N9039A	MY46520201	Nov. 11, 2014
7	Test Cable	N/A	Cable_5m_8m_15m	N/A	Jan. 14, 2015
8	Test Cable	N/A	Cable_5m_11m_15m	N/A	Jan. 14, 2015
9	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
10	RF Pre-selector	Agilent	N9039A	MY46520214	Nov. 11, 2014
11	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
12	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015
13	Amplifier	Agilent	8449B	3008A02584	Nov. 11, 2014
14	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
15	Test Cable	Huber+Suhner	SUCOFLEX_15m_4m	N/A	Jan. 14, 2015



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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	May. 24, 2014
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	May. 24, 2014

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.

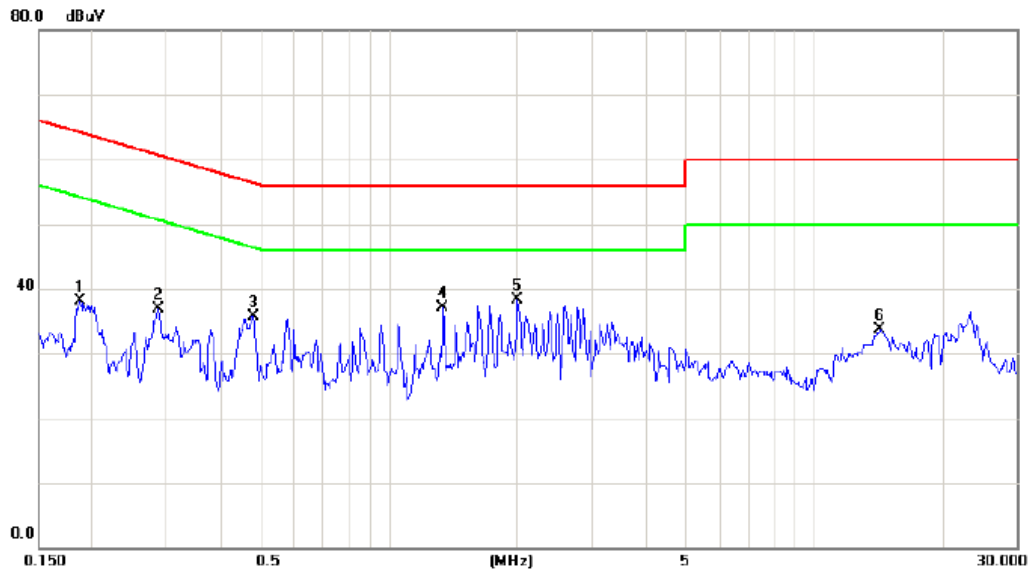


ATTACHMENT A - CONDUCTED EMISSION



Test Mode : TX MODE

Line

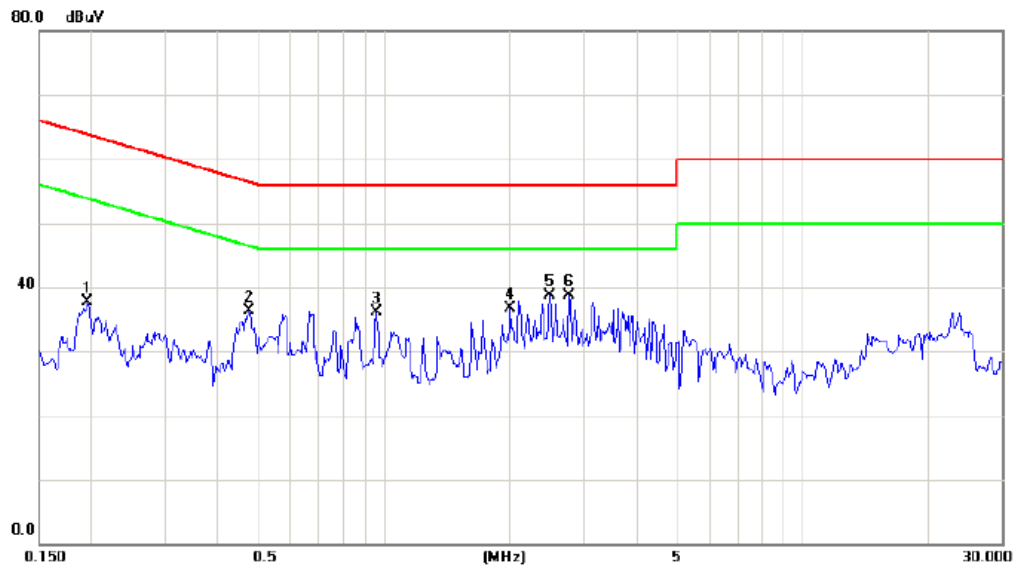


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1872	28.40	9.65	38.05	64.16	-26.11	peak	
2		0.2867	27.20	9.67	36.87	60.62	-23.75	peak	
3		0.4786	26.07	9.70	35.77	56.36	-20.59	peak	
4		1.3410	27.25	9.78	37.03	56.00	-18.97	peak	
5	*	2.0093	28.50	9.84	38.34	56.00	-17.66	peak	
6		14.2652	23.42	10.30	33.72	60.00	-26.28	peak	



Test Mode : TX MODE

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1952	27.92	9.71	37.63	63.81	-26.18	peak	
2		0.4781	26.59	9.74	36.33	56.37	-20.04	peak	
3		0.9585	26.29	9.77	36.06	56.00	-19.94	peak	
4		2.0093	26.85	9.86	36.71	56.00	-19.29	peak	
5	*	2.4897	28.90	9.88	38.78	56.00	-17.22	peak	
6		2.7750	28.84	9.88	38.72	56.00	-17.28	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
0.0212	0°	16.73	24.22	40.95	121.08	-80.12	AVG
0.0220	0°	20.44	24.22	44.66	141.08	-96.41	PEAK
0.0279	0°	16.81	23.80	40.61	118.69	-78.08	AVG
0.0279	0°	23.17	23.80	46.97	138.69	-91.72	PEAK
0.0333	0°	16.92	23.46	40.38	117.16	-76.78	AVG
0.0333	0°	22.63	23.46	46.09	137.16	-91.07	PEAK
0.0528	0°	20.82	22.34	43.16	113.15	-69.99	AVG
0.0528	0°	24.98	22.34	47.32	133.15	-85.83	PEAK
0.3170	0°	18.03	20.24	38.27	97.58	-59.31	AVG
0.3170	0°	22.19	20.24	42.43	117.58	-75.15	PEAK
1.5210	0°	16.87	19.55	36.42	63.96	-27.54	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0175	90°	16.85	24.30	41.15	122.74	-81.59	AVG
0.0175	90°	22.16	24.30	46.46	142.74	-96.28	PEAK
0.0269	90°	16.82	23.86	40.68	119.01	-78.33	AVG
0.0269	90°	19.16	23.86	43.02	139.01	-95.99	PEAK
0.0375	90°	21.41	23.19	44.60	116.12	-71.52	AVG
0.0375	90°	28.13	23.19	51.32	136.12	-84.80	PEAK
0.0519	90°	16.14	22.36	38.50	113.30	-74.80	AVG
0.0519	90°	22.10	22.36	44.46	133.30	-88.84	PEAK
0.3260	90°	15.46	20.22	35.68	97.34	-61.66	AVG
0.3260	90°	20.14	20.22	40.36	117.34	-76.98	PEAK
1.6750	90°	16.16	19.53	35.69	63.12	-27.43	QP

Remark:

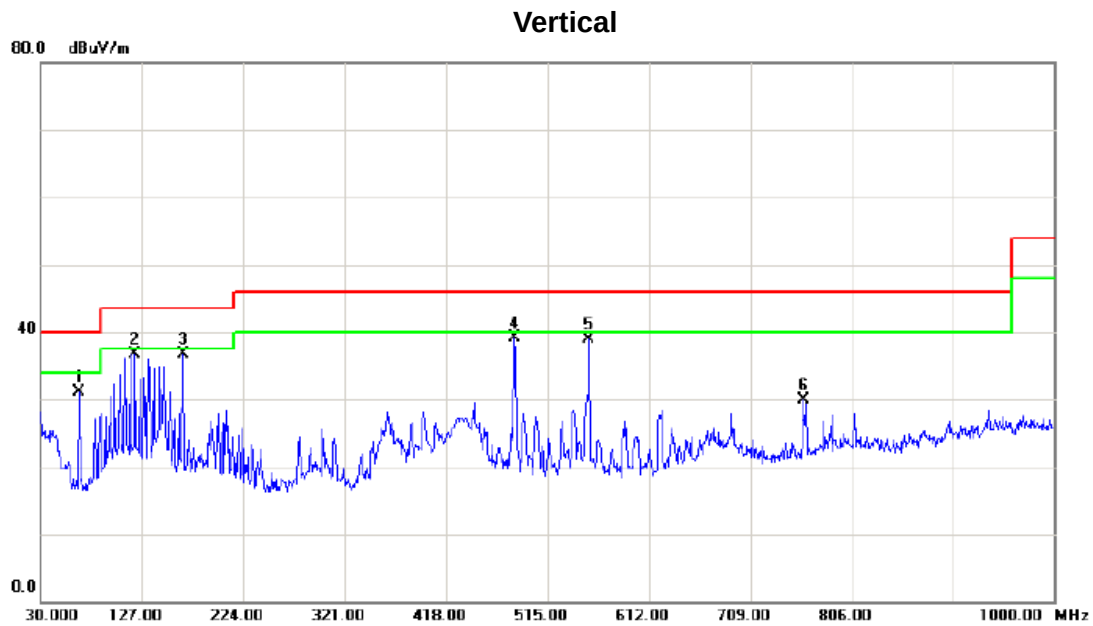
- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation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



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



Test Mode:	TX B MODE CHANNEL 01
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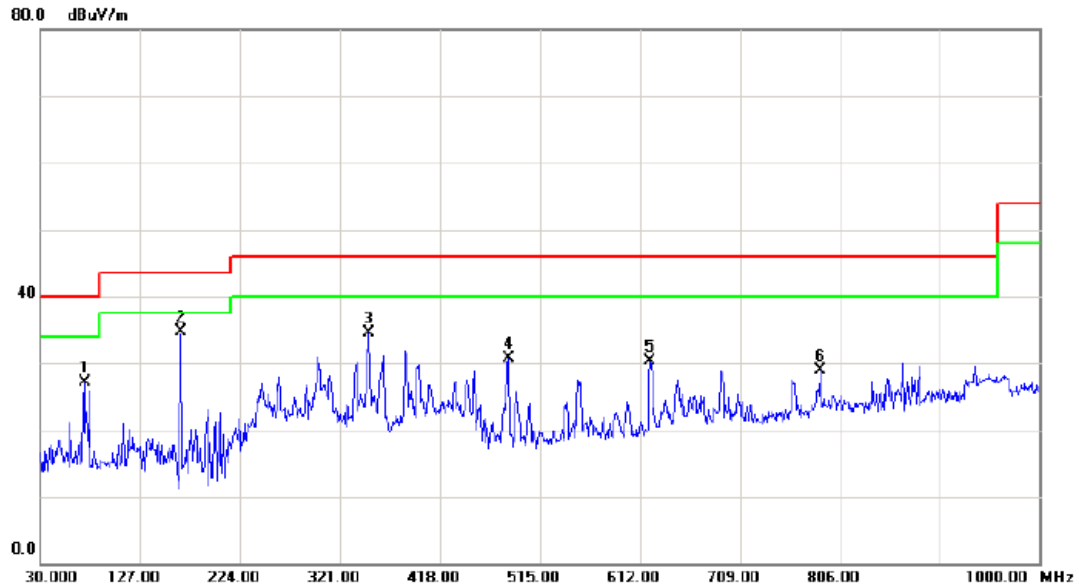


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		66.8600	47.03	-15.89	31.14	40.00	-8.86	peak	
2	*	120.2100	50.64	-13.88	36.76	43.50	-6.74	peak	
3		165.8000	49.76	-13.11	36.65	43.50	-6.85	peak	
4		482.9900	48.89	-9.85	39.04	46.00	-6.96	peak	
5		554.7700	46.62	-7.69	38.93	46.00	-7.07	peak	
6		759.4400	34.39	-4.57	29.82	46.00	-16.18	peak	



Test Mode:	TX B MODE CHANNEL 01
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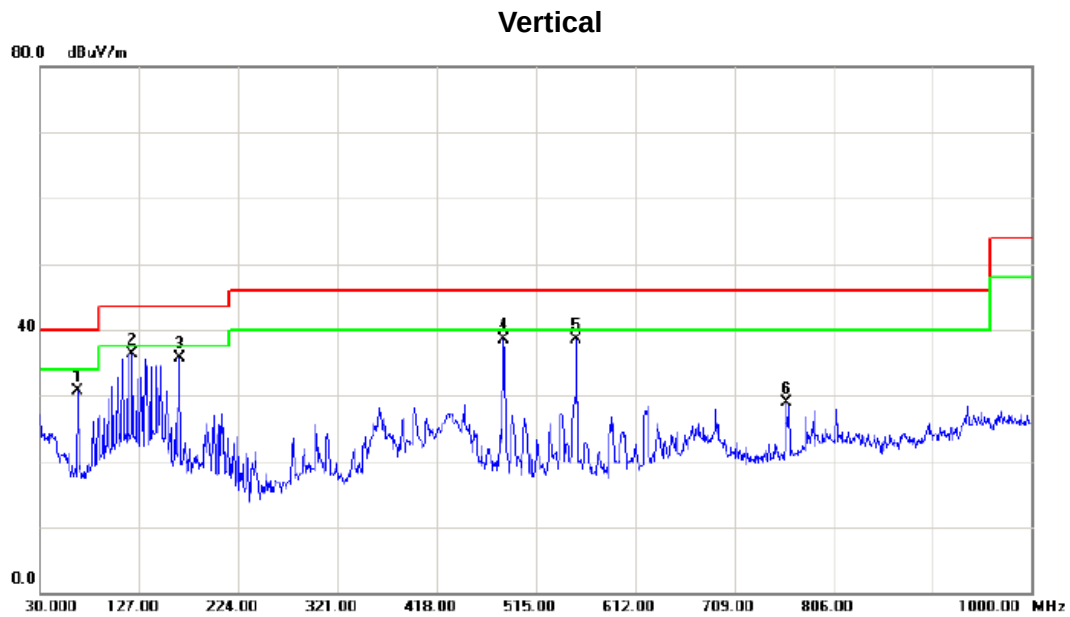
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		72.6800	43.64	-16.55	27.09	40.00	-12.91	peak	
2	*	165.8000	47.88	-13.11	34.77	43.50	-8.73	peak	
3		349.1300	45.91	-11.46	34.45	46.00	-11.55	peak	
4		484.9300	40.63	-9.91	30.72	46.00	-15.28	peak	
5		621.7000	37.29	-7.00	30.29	46.00	-15.71	peak	
6		786.6000	32.56	-3.59	28.97	46.00	-17.03	peak	



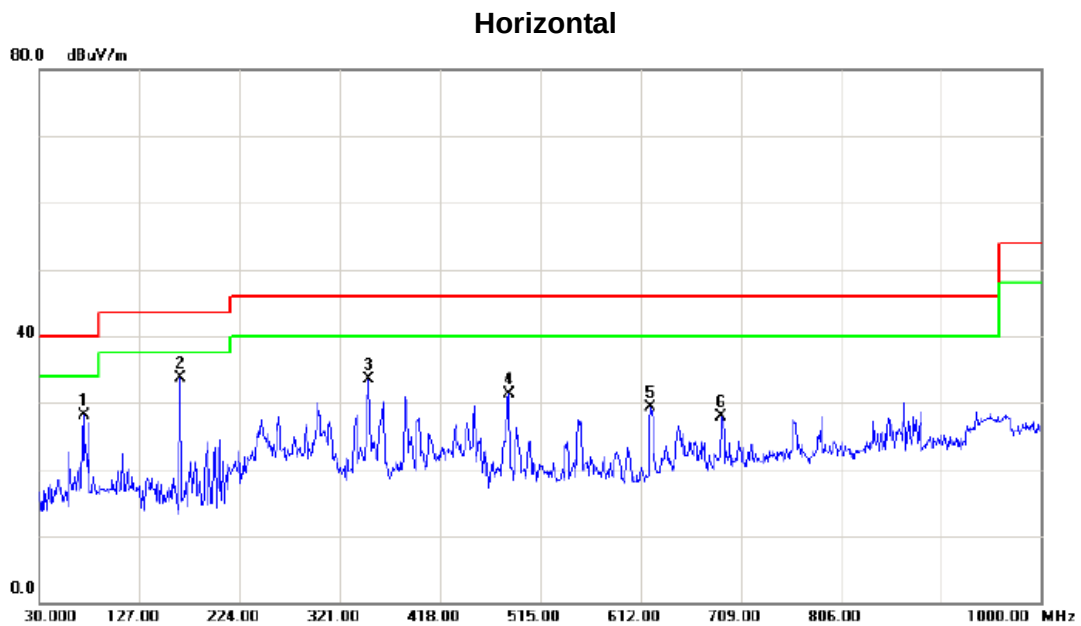
Test Mode:	TX B MODE CHANNEL 06
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	66.8600	46.53	-15.89	30.64	40.00	-9.36	peak	
2 *	120.2100	50.14	-13.88	36.26	43.50	-7.24	peak	
3	165.8000	48.76	-13.11	35.65	43.50	-7.85	peak	
4	482.9900	48.39	-9.85	38.54	46.00	-7.46	peak	
5	554.7700	46.12	-7.69	38.43	46.00	-7.57	peak	
6	759.4400	33.39	-4.57	28.82	46.00	-17.18	peak	



Test Mode:	TX B MODE CHANNEL 06
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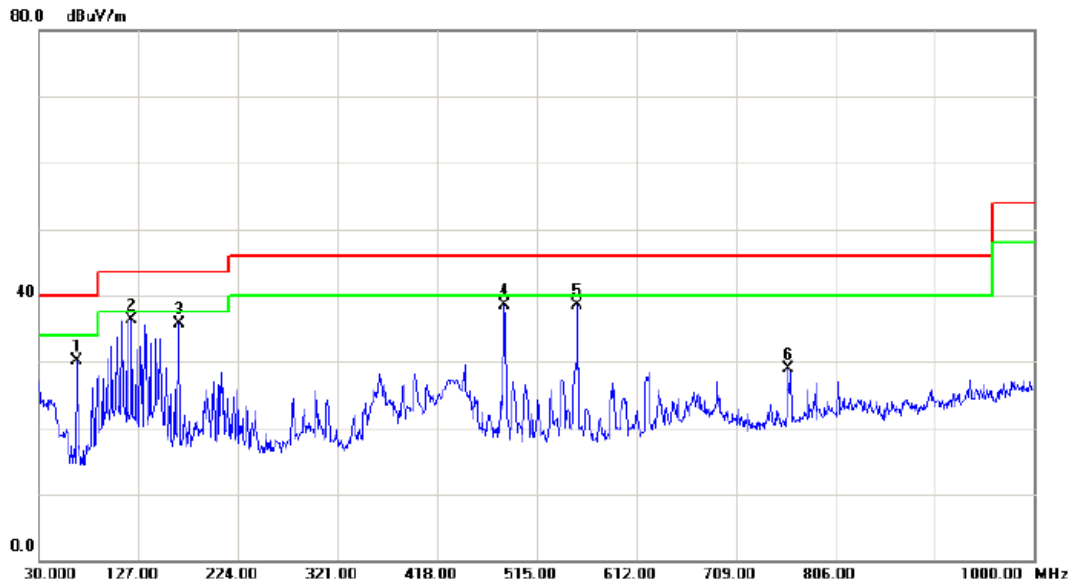


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		72.6800	44.64	-16.55	28.09	40.00	-11.91	peak	
2	*	165.8000	46.88	-13.11	33.77	43.50	-9.73	peak	
3		349.1300	44.92	-11.46	33.46	46.00	-12.54	peak	
4		484.9300	41.13	-9.91	31.22	46.00	-14.78	peak	
5		621.7000	36.29	-7.00	29.29	46.00	-16.71	peak	
6		690.5700	32.80	-4.94	27.86	46.00	-18.14	peak	



Test Mode:	TX B MODE CHANNEL 11
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Vertical

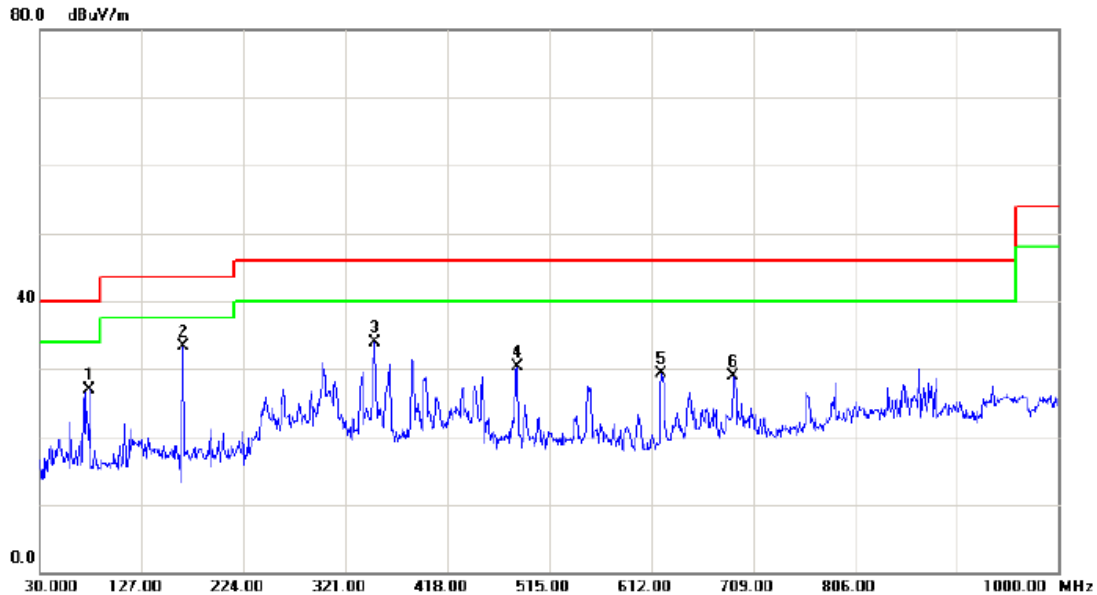


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	66.8600	46.03	-15.89	30.14	40.00	-9.86	peak	
2 *	120.2100	50.14	-13.88	36.26	43.50	-7.24	peak	
3	165.8000	48.76	-13.11	35.65	43.50	-7.85	peak	
4	482.9900	48.39	-9.85	38.54	46.00	-7.46	peak	
5	554.7700	46.12	-7.69	38.43	46.00	-7.57	peak	
6	759.4400	33.39	-4.57	28.82	46.00	-17.18	peak	



Test Mode: TX B MODE CHANNEL 11

Horizontal



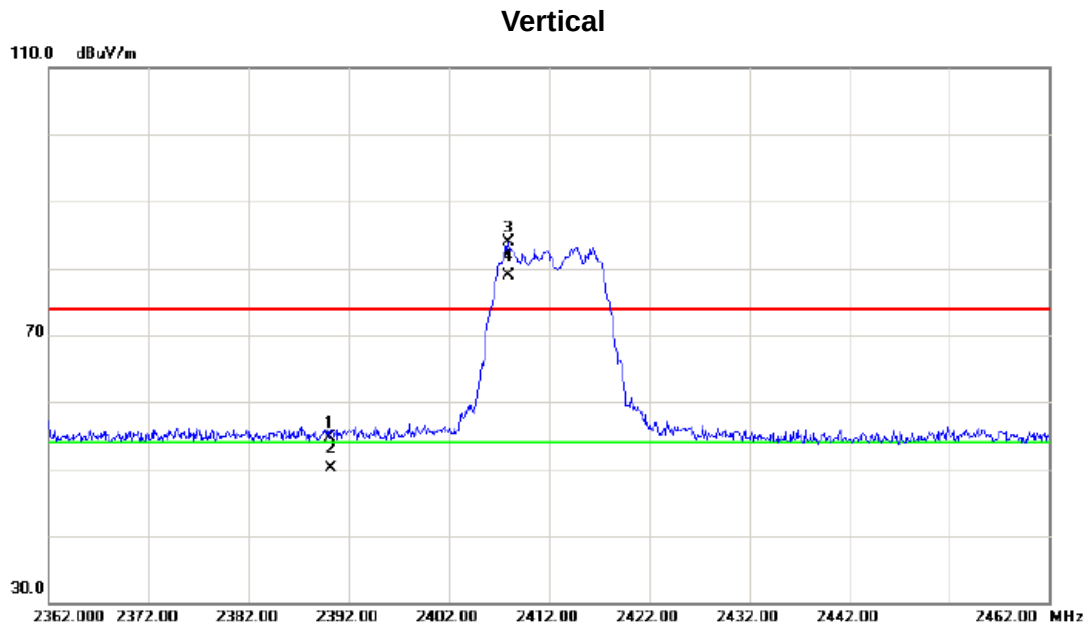
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		77.5300	43.96	-17.13	26.83	40.00	-13.17	peak	
2	*	165.8000	46.38	-13.11	33.27	43.50	-10.23	peak	
3		349.1300	45.42	-11.46	33.96	46.00	-12.04	peak	
4		484.9300	40.13	-9.91	30.22	46.00	-15.78	peak	
5		621.7000	36.29	-7.00	29.29	46.00	-16.71	peak	
6		690.5700	33.80	-4.94	28.86	46.00	-17.14	peak	



ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)



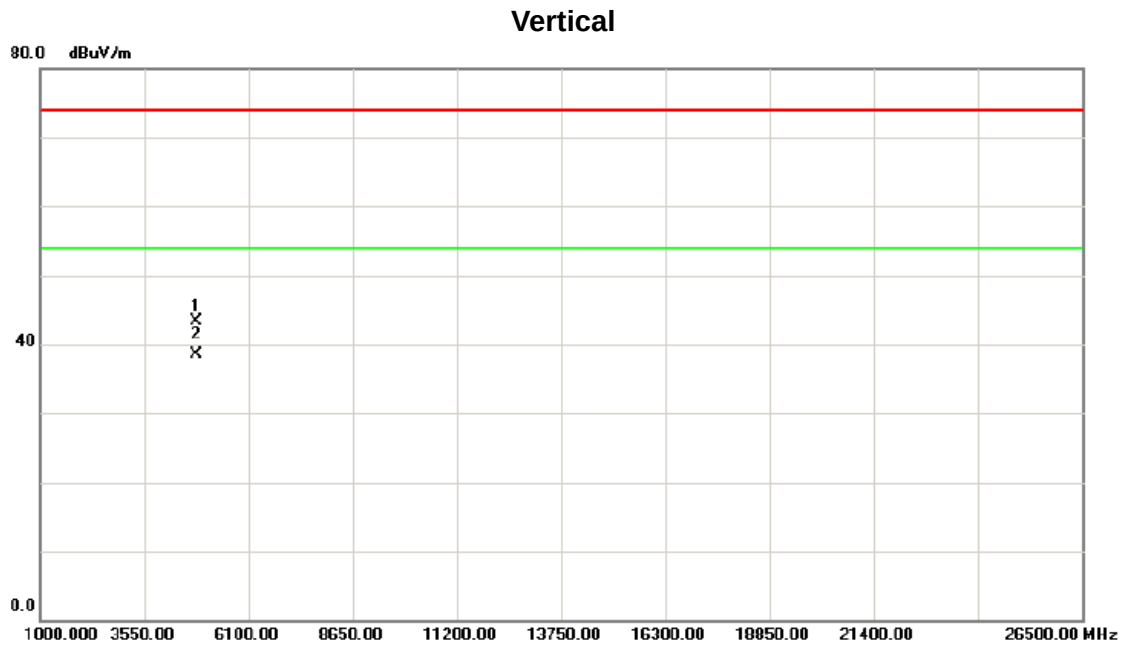
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	21.35	33.38	54.73	74.00	-19.27	peak	
2		2390.000	16.68	33.38	50.06	54.00	-3.94	AVG	
3	X	2407.900	50.39	33.43	83.82	74.00	9.82	peak	Fundamental frequency, no limit
4	*	2407.900	45.42	33.43	78.85	54.00	24.85	AVG	Fundamental frequency, no limit



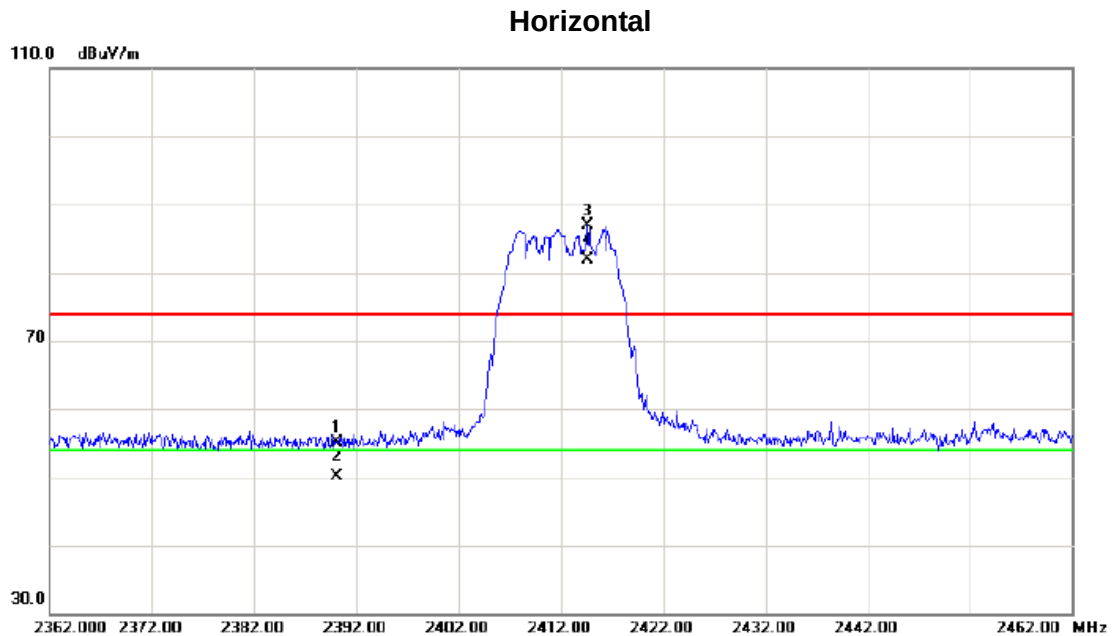
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.230	36.82	6.43	43.25	74.00	-30.75	peak	
2 *	4824.230	32.06	6.43	38.49	54.00	-15.51	AVG	



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

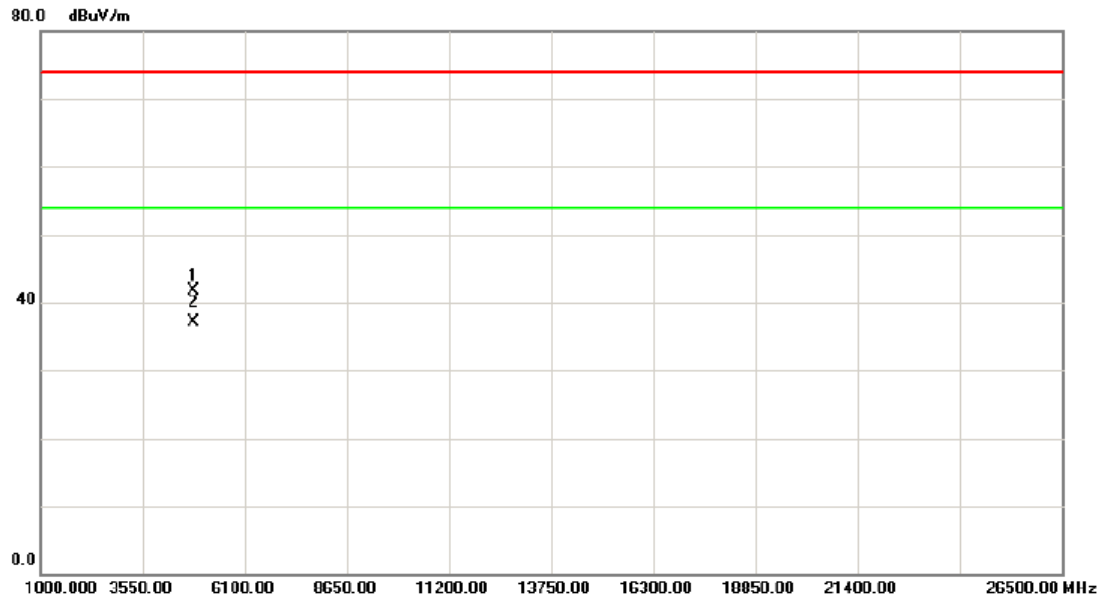


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	21.64	33.38	55.02	74.00	-18.98	peak	
2		2390.000	16.67	33.38	50.05	54.00	-3.95	AVG	
3	X	2414.600	53.43	33.44	86.87	74.00	12.87	peak	Fundamental frequency, no limit
4	*	2414.600	48.46	33.44	81.90	54.00	27.90	AVG	Fundamental frequency, no limit



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

Horizontal

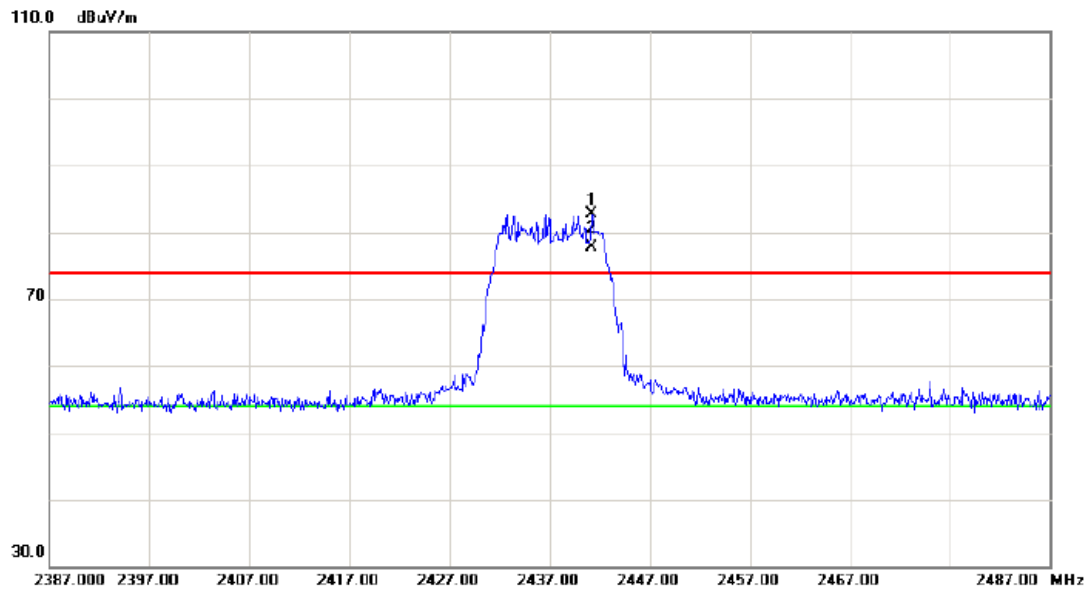


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4824.210	35.36	6.43	41.79	74.00	-32.21	peak
2	*	4824.210	30.60	6.43	37.03	54.00	-16.97	AVG



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

Vertical

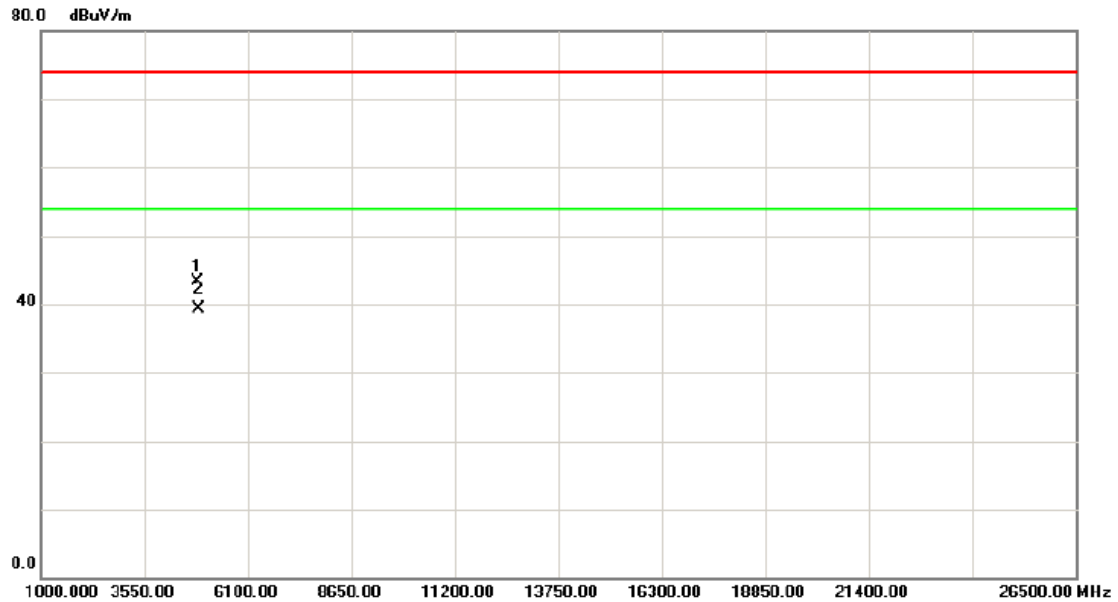


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2441.200	49.18	33.51	82.69	74.00	8.69	peak	Fundamental frequency, no limit
2	*	2441.200	44.21	33.51	77.72	54.00	23.72	AVG	Fundamental frequency, no limit



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

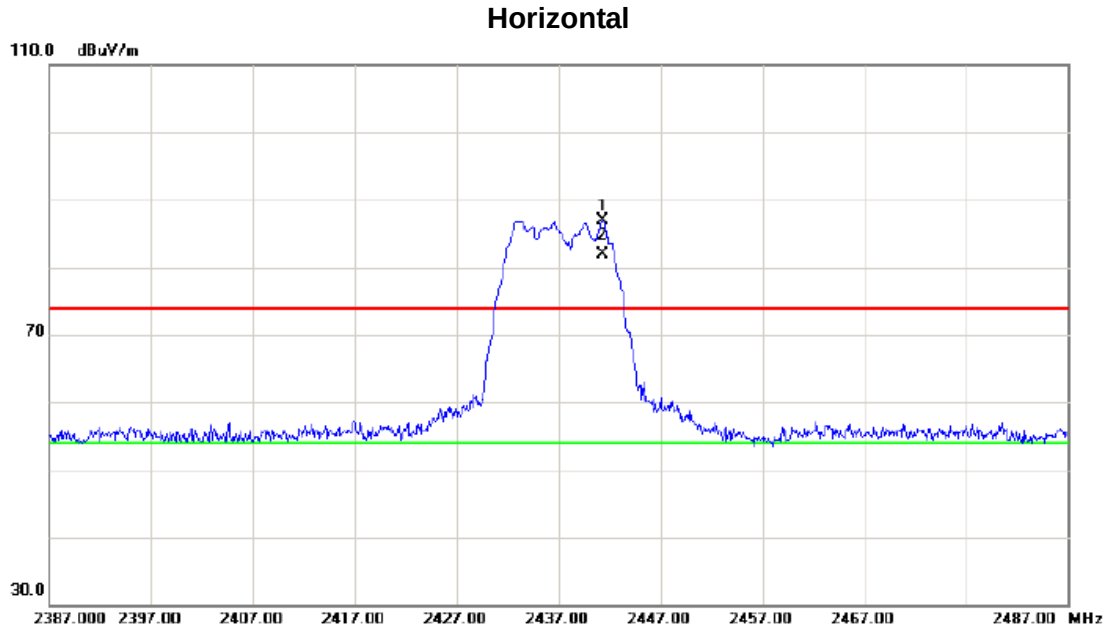
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.310	36.67	6.58	43.25	74.00	-30.75	peak	
2	*	4874.310	32.68	6.58	39.26	54.00	-14.74	AVG	



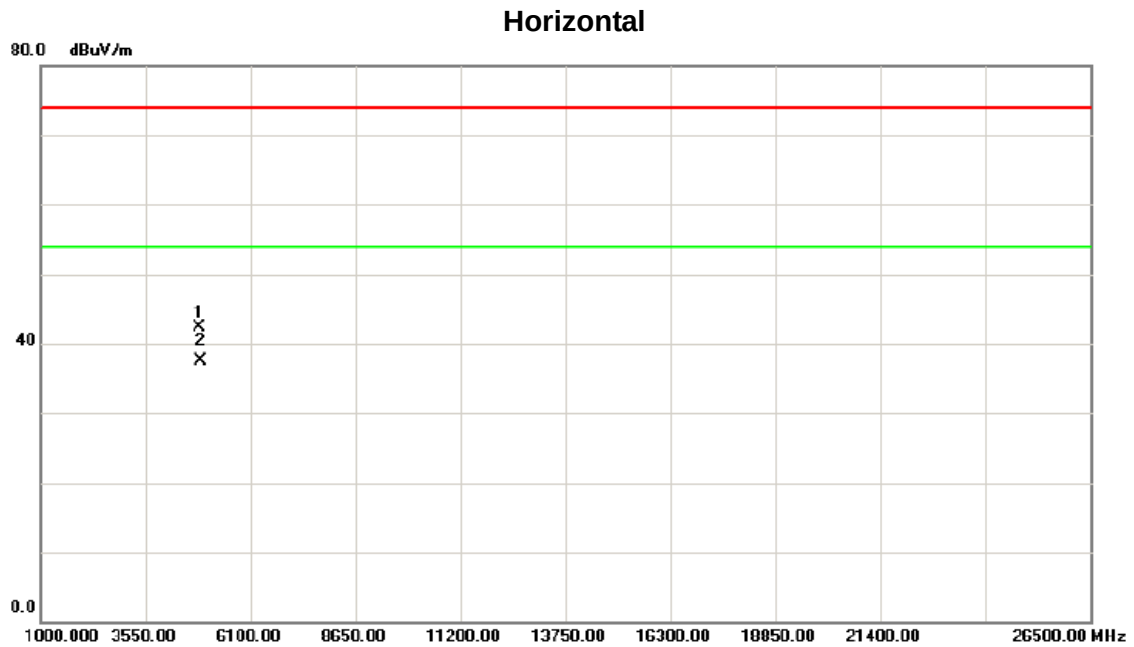
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2441.300	53.38	33.51	86.89	74.00	12.89	peak	Fundamental frequency, no limit
2	*	2441.300	48.41	33.51	81.92	54.00	27.92	AVG	Fundamental frequency, no limit



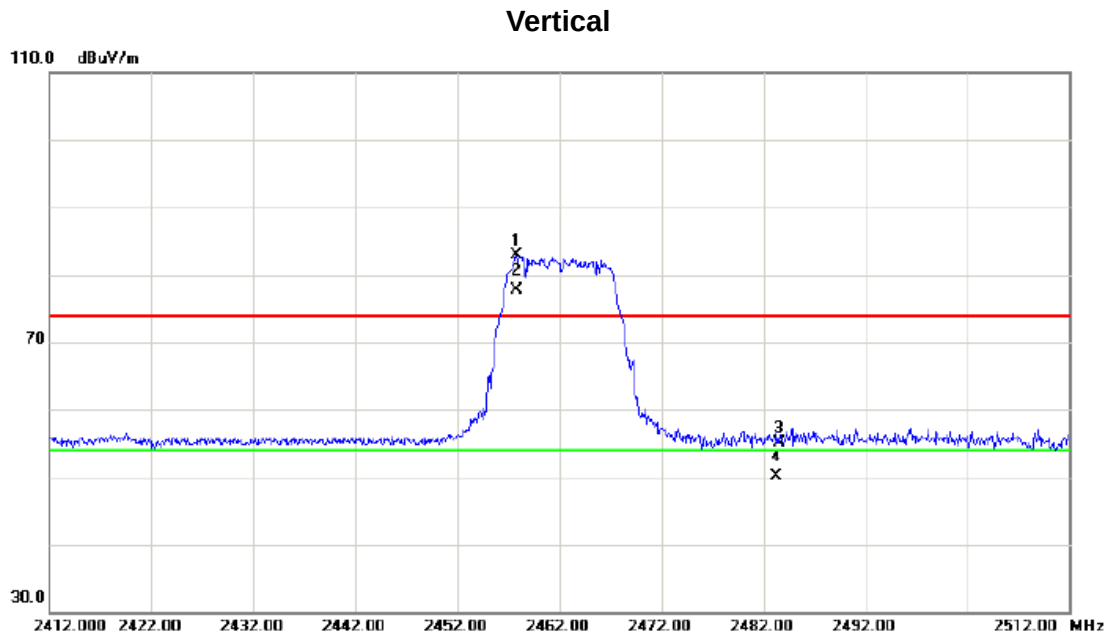
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.330	35.69	6.58	42.27	74.00	-31.73	peak	
2	*	4874.330	30.93	6.58	37.51	54.00	-16.49	AVG	



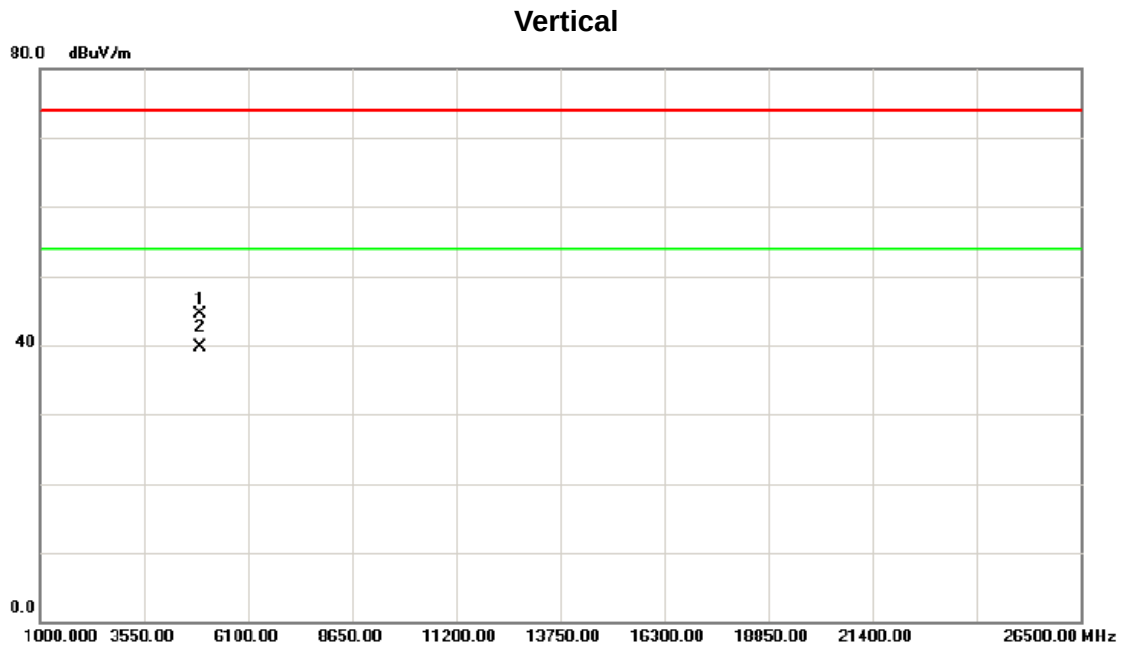
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2457.800	49.29	33.56	82.85	74.00	8.85	peak	Fundamental frequency, no limit
2	*	2457.800	44.24	33.56	77.80	54.00	23.80	AVG	Fundamental frequency, no limit
3		2483.500	21.45	33.62	55.07	74.00	-18.93	peak	
4		2483.500	16.46	33.62	50.08	54.00	-3.92	AVG	



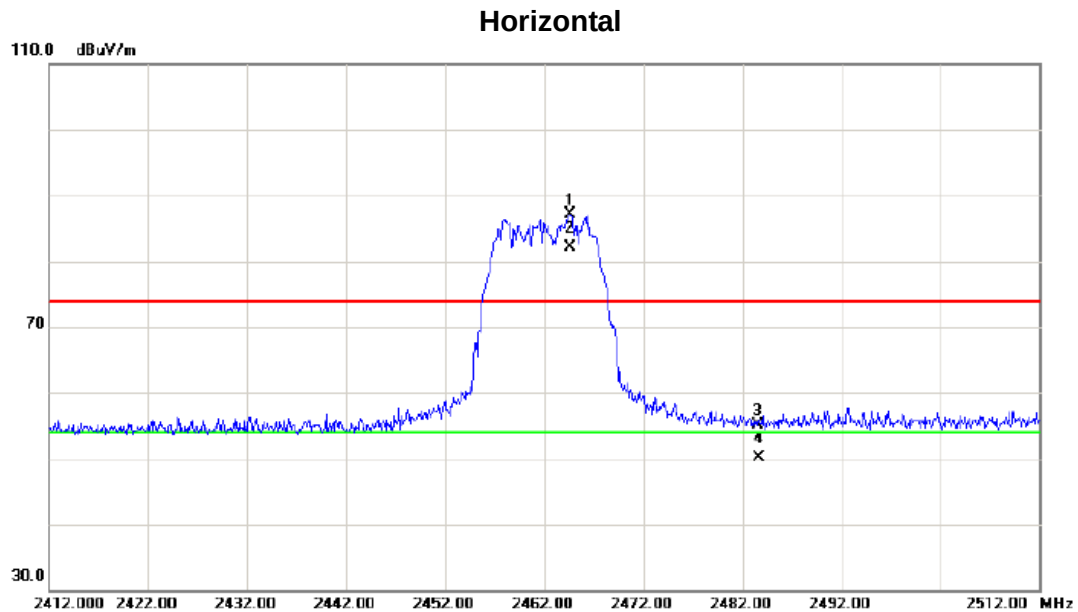
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.050	37.83	6.72	44.55	74.00	-29.45	peak	
2 *	4924.050	33.07	6.72	39.79	54.00	-14.21	AVG	



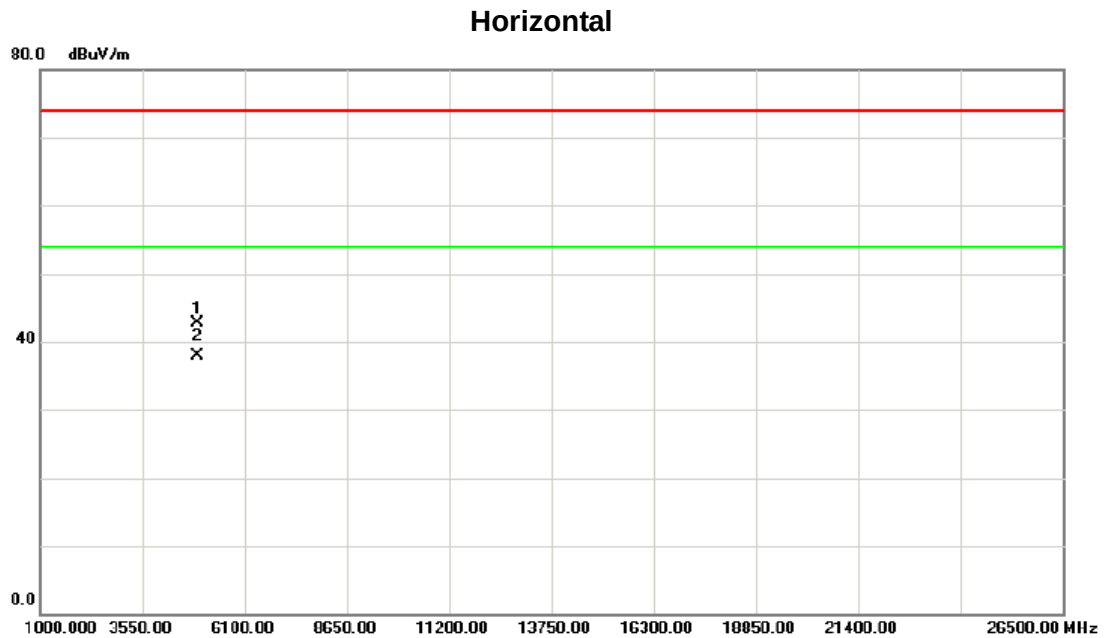
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2464.600	53.51	33.57	87.08	74.00	13.08	peak	Fundamental frequency, no limit
2	*	2464.600	48.54	33.57	82.11	54.00	28.11	AVG	Fundamental frequency, no limit
3		2483.500	21.43	33.62	55.05	74.00	-18.95	peak	
4		2483.500	16.46	33.62	50.08	54.00	-3.92	AVG	



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

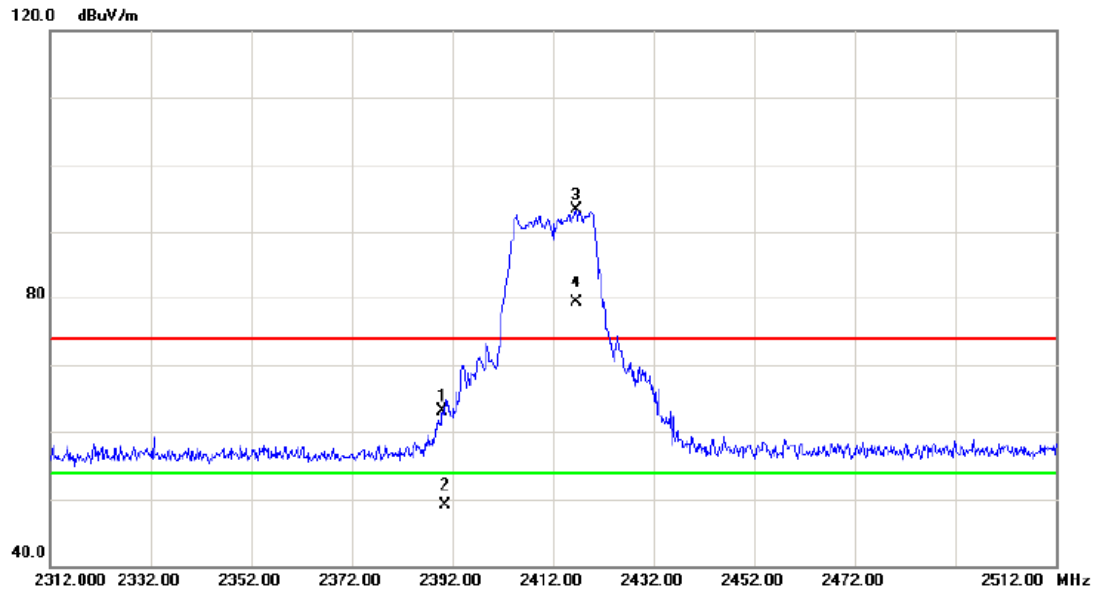


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.060	35.92	6.72	42.64	74.00	-31.36	peak	
2	*	4924.060	31.16	6.72	37.88	54.00	-16.12	AVG	



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

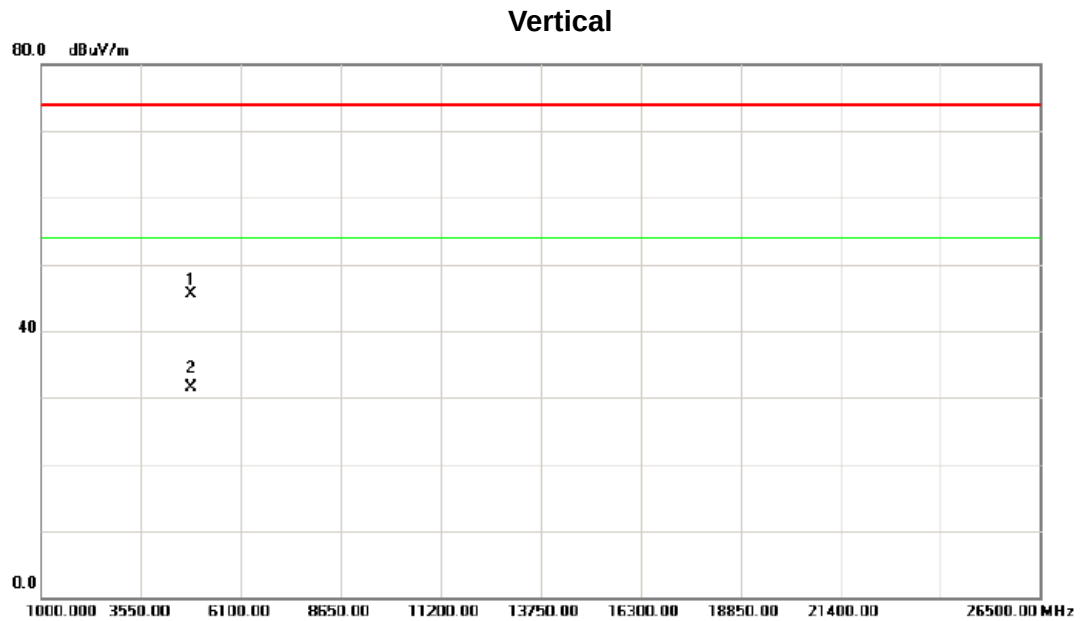
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	29.69	33.38	63.07	74.00	-10.93	peak	
2		2390.000	15.71	33.38	49.09	54.00	-4.91	AVG	
3	X	2416.600	59.85	33.45	93.30	74.00	19.30	peak	Fundamental frequency, no limit
4	*	2416.600	45.87	33.45	79.32	54.00	25.32	AVG	Fundamental frequency, no limit



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

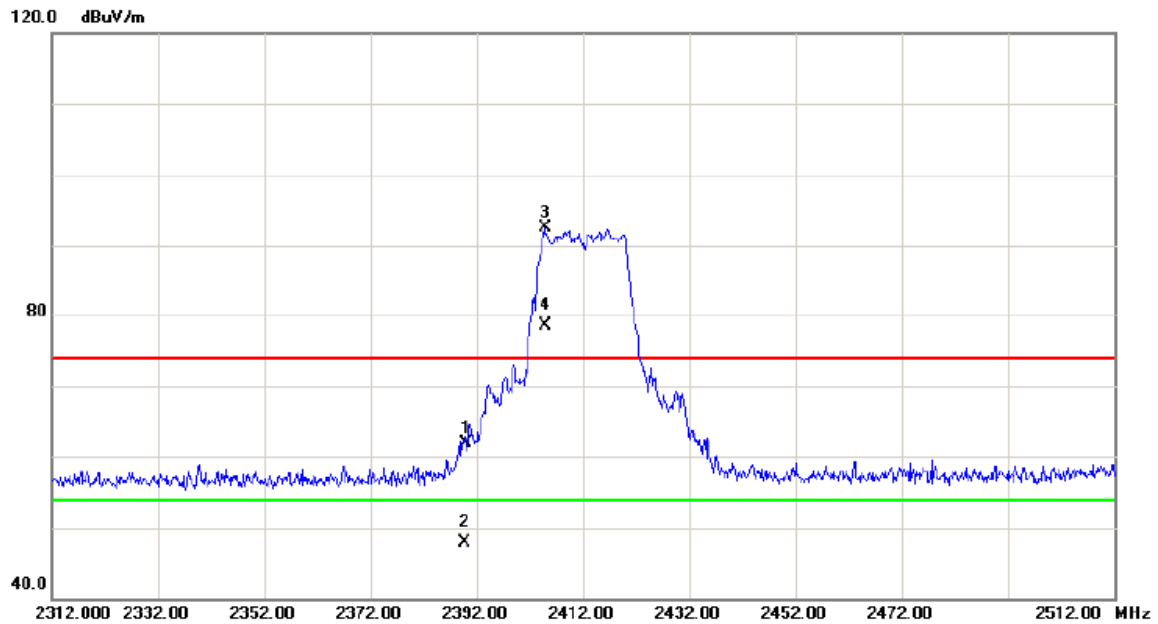


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.350	39.14	6.43	45.57	74.00	-28.43	peak	
2	*	4824.350	25.16	6.43	31.59	54.00	-22.41	AVG	



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

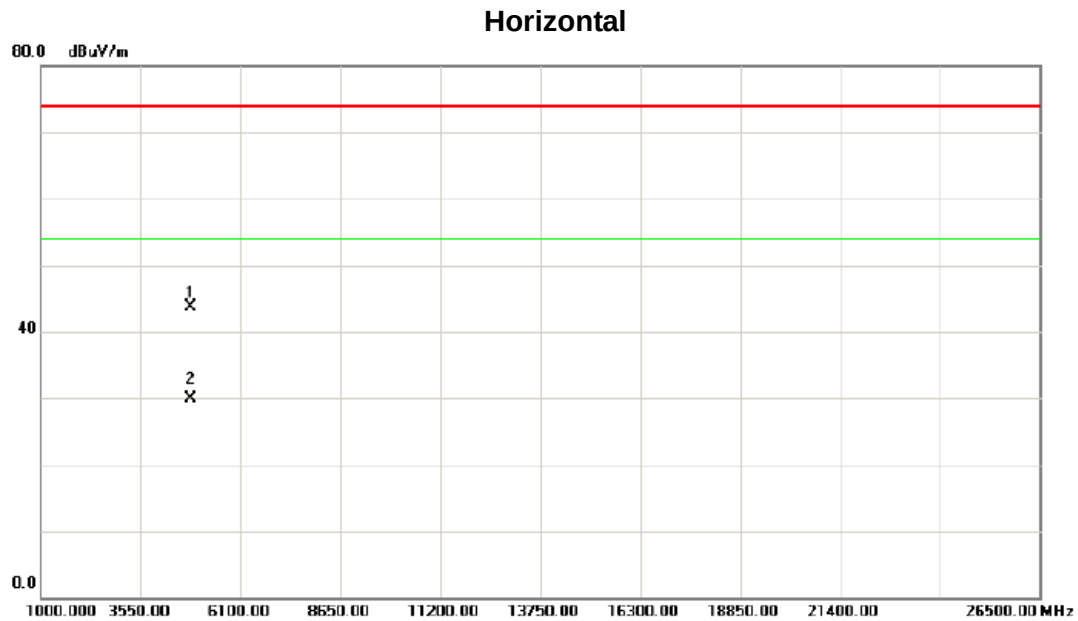
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	28.58	33.38	61.96	74.00	-12.04	peak	
2		2390.000	14.58	33.38	47.96	54.00	-6.04	AVG	
3	X	2404.800	59.03	33.42	92.45	74.00	18.45	peak	Fundamental frequency, no limit
4	*	2404.800	45.05	33.42	78.47	54.00	24.47	AVG	Fundamental frequency, no limit



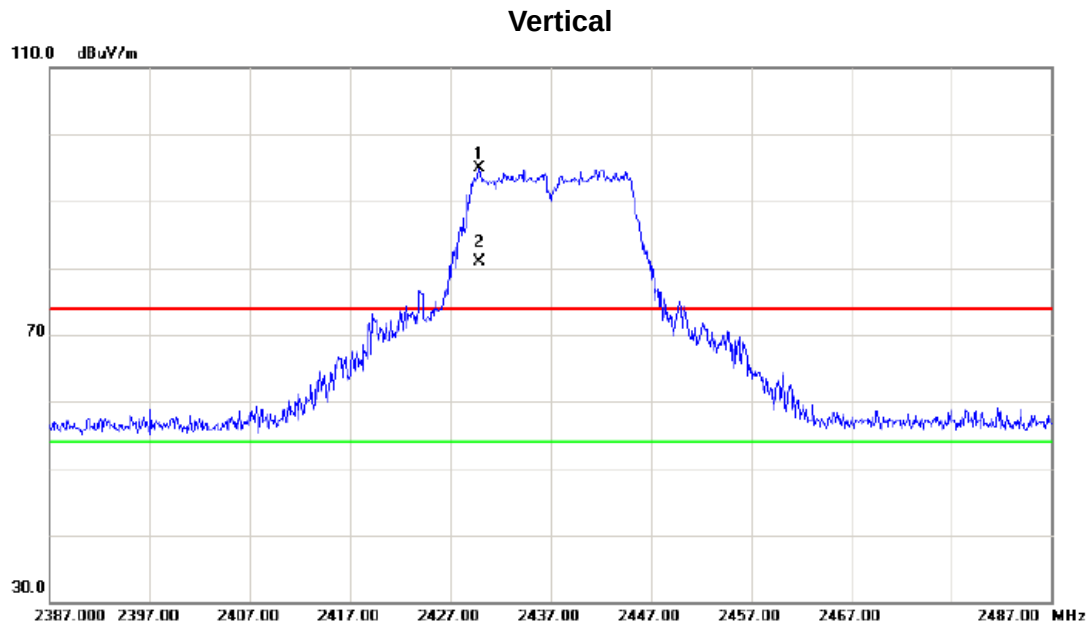
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.320	37.36	6.43	43.79	74.00	-30.21	peak	
2	*	4824.320	23.38	6.43	29.81	54.00	-24.19	AVG	



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

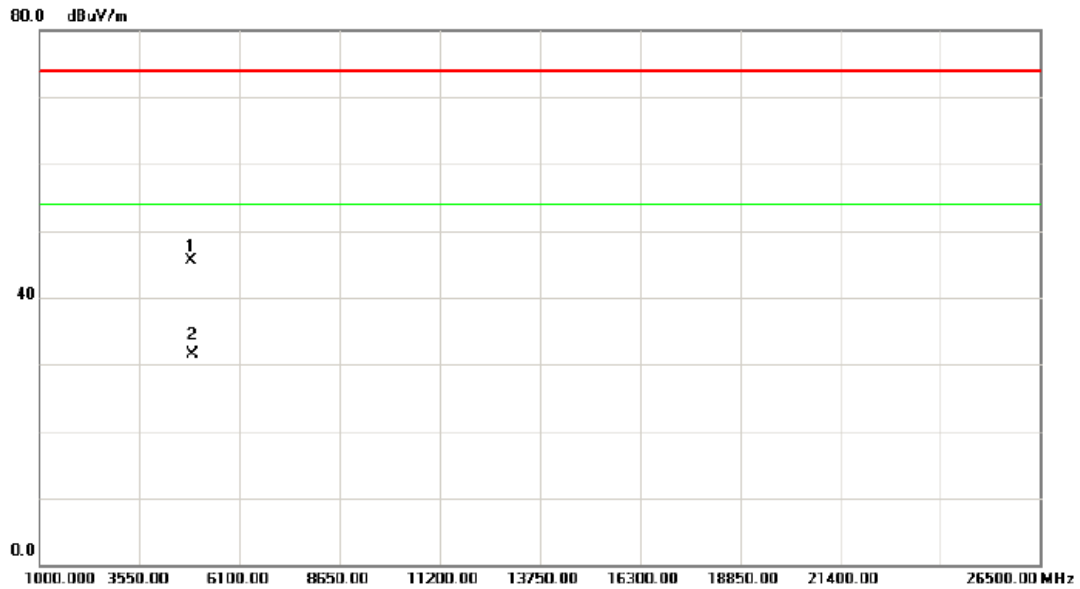


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2429.800	61.44	33.48	94.92	74.00	20.92	peak	Fundamental frequency, no limit
2	*	2429.800	47.46	33.48	80.94	54.00	26.94	AVG	Fundamental frequency, no limit



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

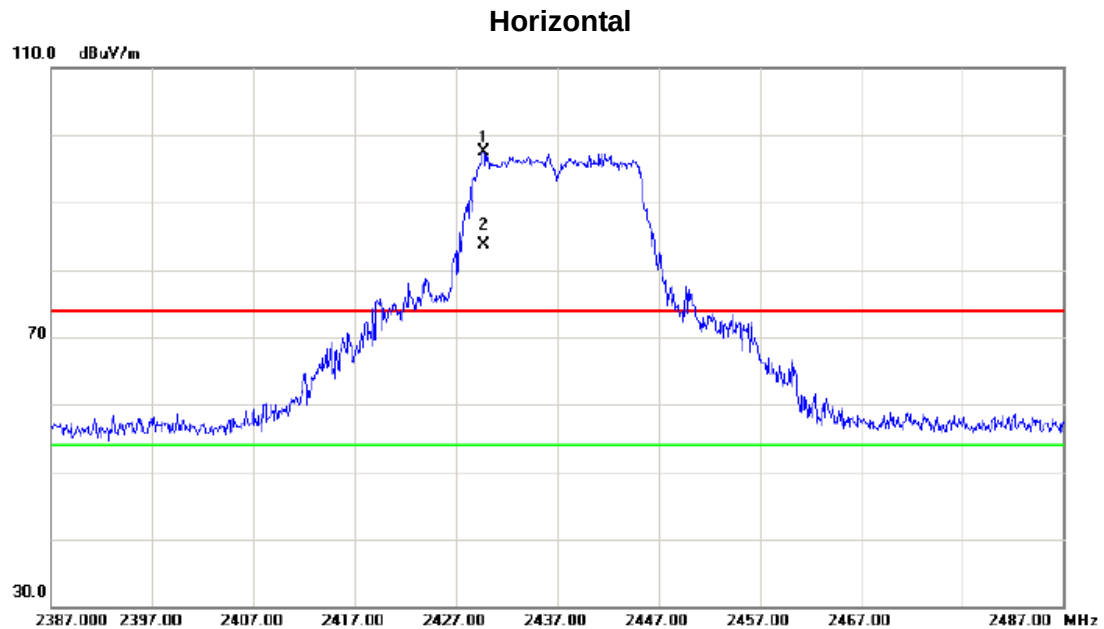
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.140	38.96	6.58	45.54	74.00	-28.46	peak	
2	*	4874.140	24.98	6.58	31.56	54.00	-22.44	AVG	



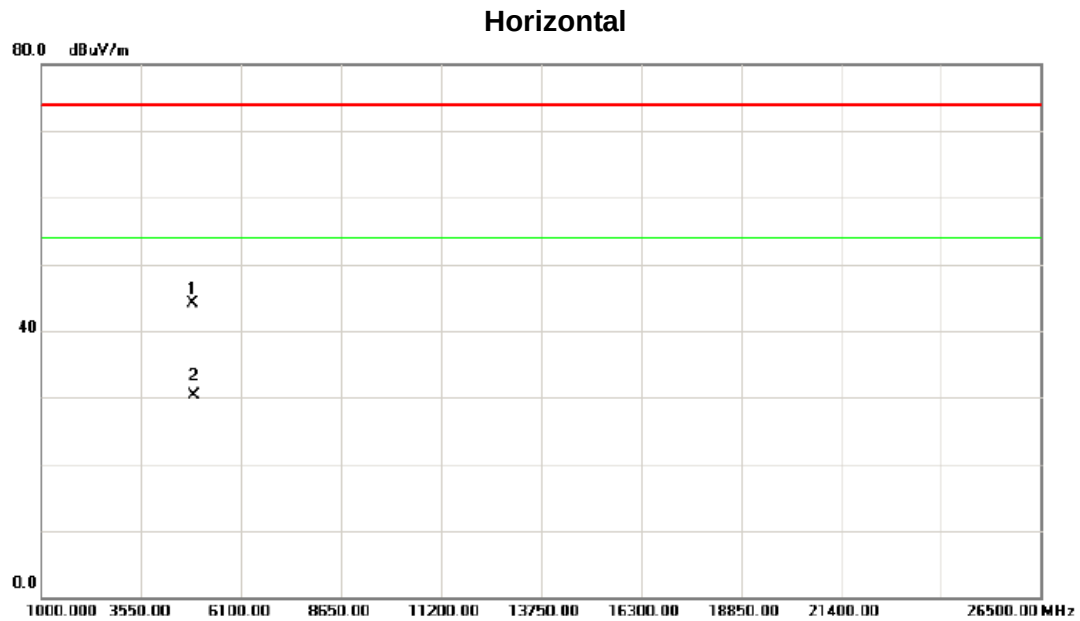
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2429.700	64.11	33.48	97.59	74.00	23.59	peak	Fundamental frequency, no limit
2	*	2429.700	50.13	33.48	83.61	54.00	29.61	AVG	Fundamental frequency, no limit



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

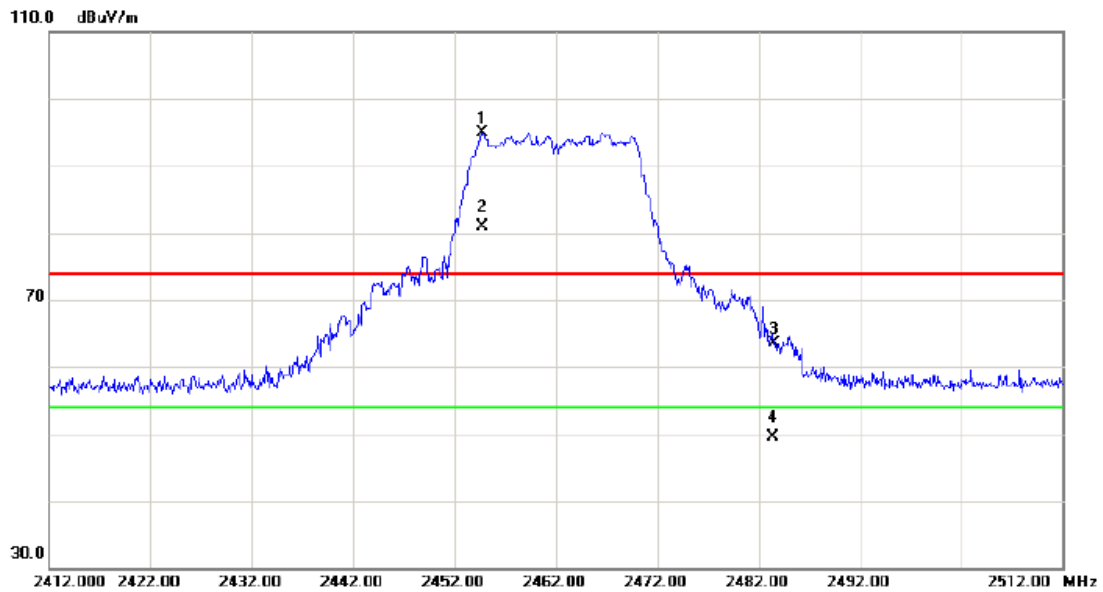


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.150	37.61	6.58	44.19	74.00	-29.81	peak	
2	*	4874.150	23.63	6.58	30.21	54.00	-23.79	AVG	



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

Vertical

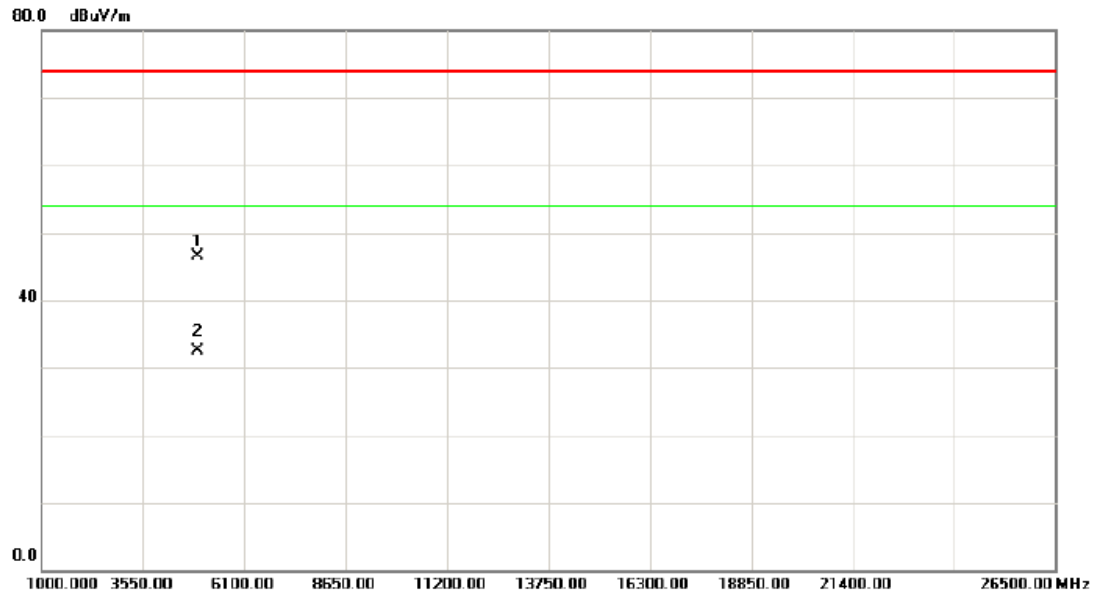


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2454.700	61.42	33.54	94.96	74.00	20.96	peak	Fundamental frequency, no limit
2	*	2454.700	47.44	33.54	80.98	54.00	26.98	AVG	Fundamental frequency, no limit
3		2483.500	29.84	33.62	63.46	74.00	-10.54	peak	
4		2483.500	15.86	33.62	49.48	54.00	-4.52	AVG	



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

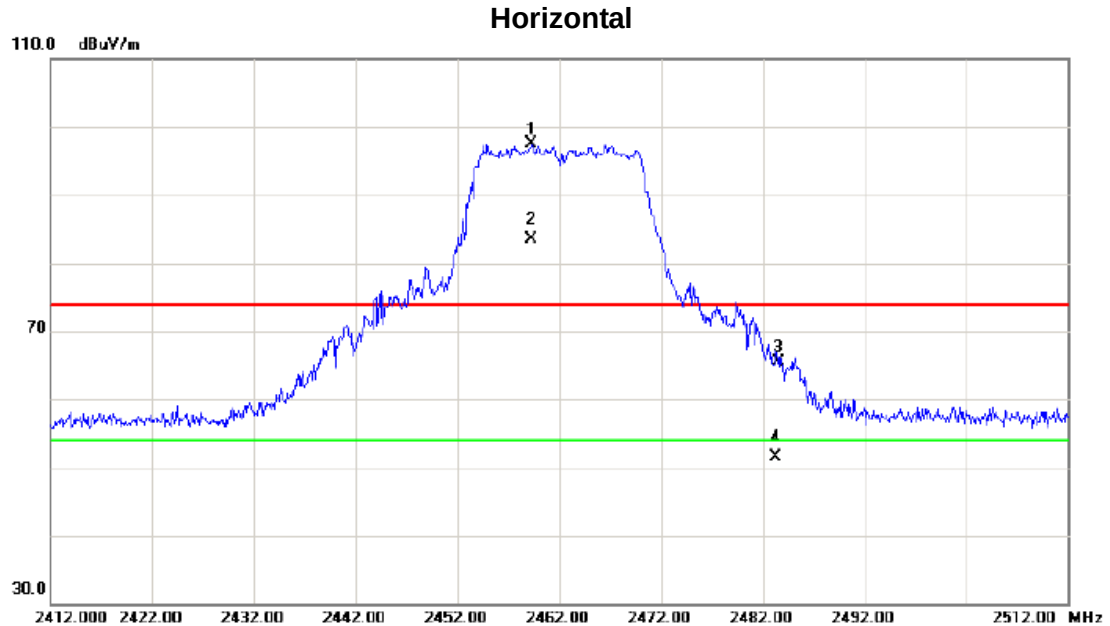
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.070	39.82	6.72	46.54	74.00	-27.46	peak	
2 *	4924.070	25.84	6.72	32.56	54.00	-21.44	AVG	



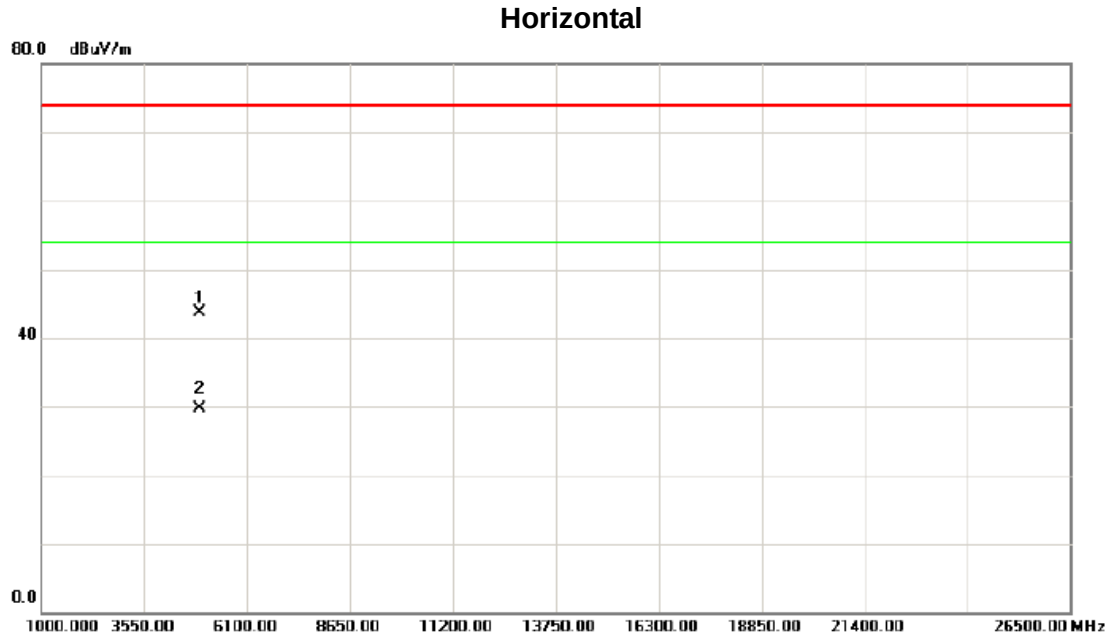
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2459.300	63.94	33.56	97.50	74.00	23.50	peak	Fundamental frequency, no limit
2	*	2459.300	49.96	33.56	83.52	54.00	29.52	AVG	Fundamental frequency, no limit
3		2483.500	31.85	33.62	65.47	74.00	-8.53	peak	
4		2483.500	17.87	33.62	51.49	54.00	-2.51	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		4924.060	37.04	6.72	43.76	74.00	-30.24	peak	
2	*	4924.060	23.06	6.72	29.78	54.00	-24.22	AVG	

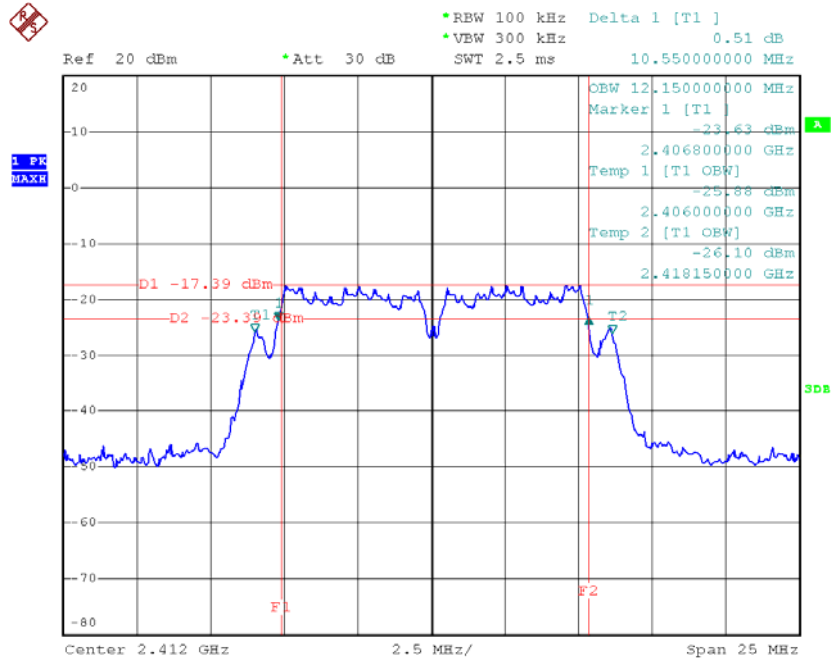


ATTACHMENT E - BANDWIDTH



Test Mode : TX B Mode_CH01/06/11

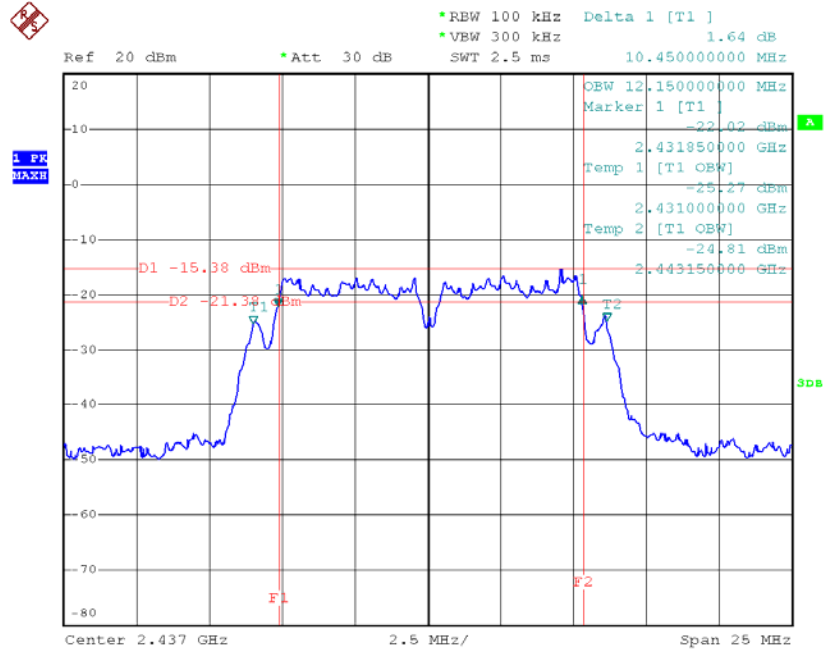
TX CH 01



Date: 10.MAY.2014 14:52:09

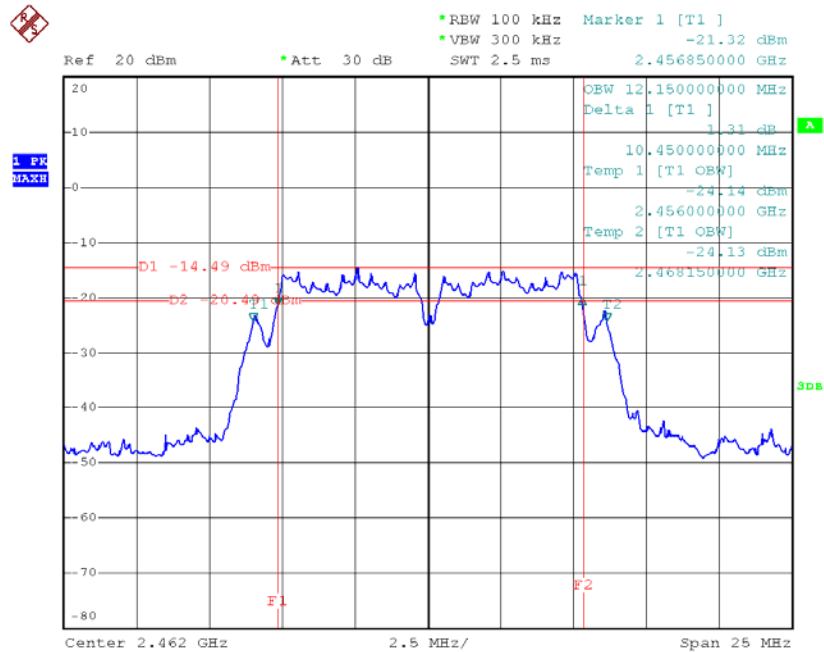


TX CH 06



Date: 10.MAY.2014 14:50:29

TX CH 11

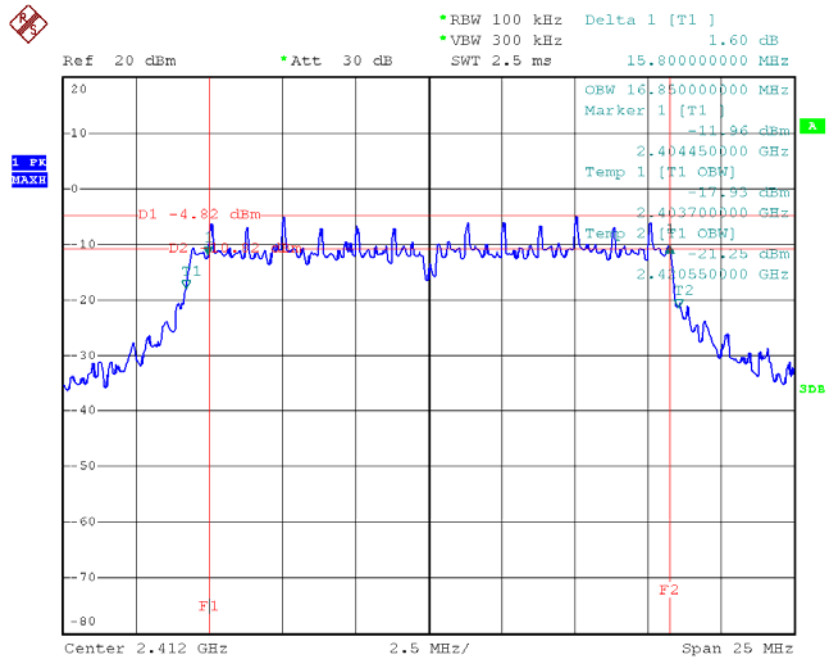


Date: 10.MAY.2014 14:49:17



Test Mode: TX G Mode_CH01/06/11

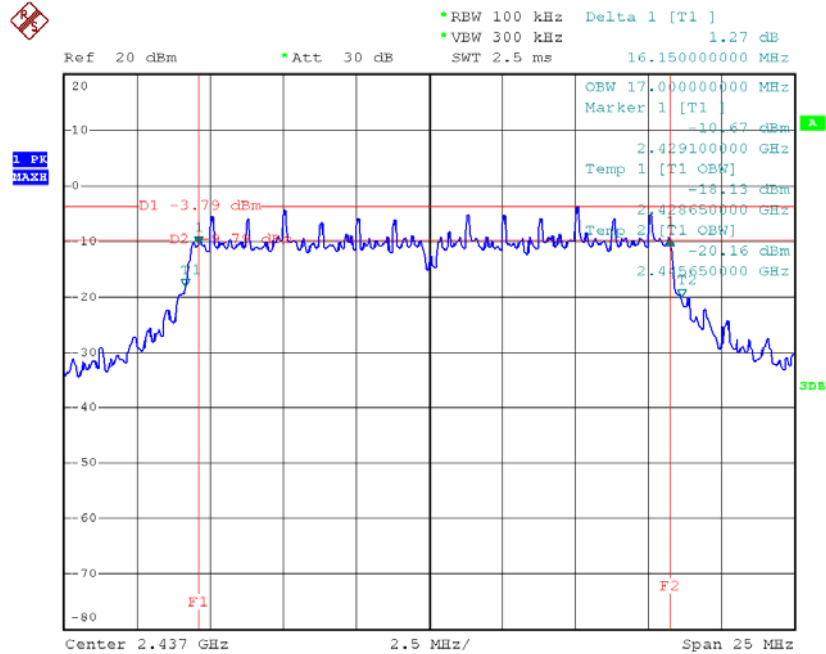
TX CH 01



Date: 10.MAY.2014 14:32:39

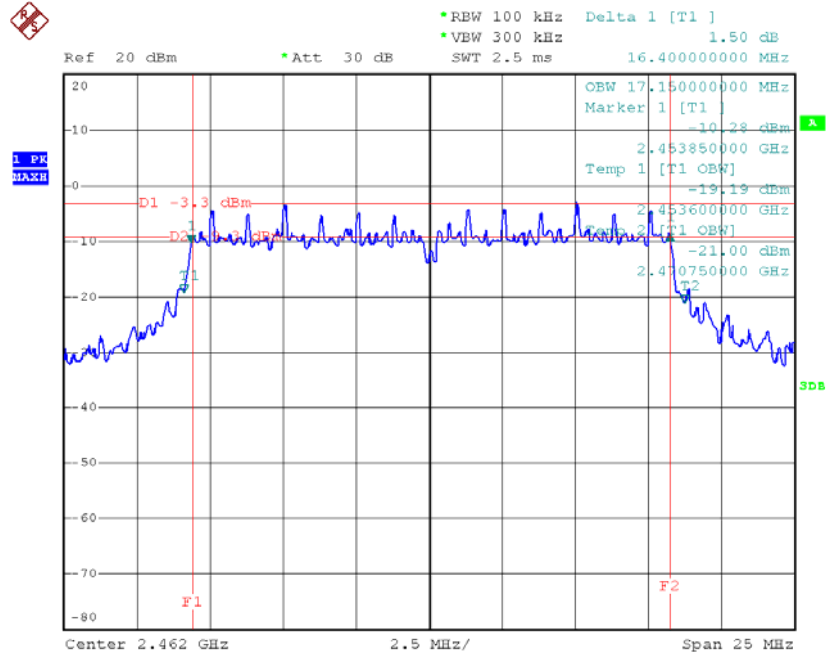


TX CH 06



Date: 10.MAY.2014 14:30:45

TX CH 11



Date: 10.MAY.2014 14:29:13



ATTACHMENT F - MAXIMUM OUTPUT POWER



Test Mode : TX B Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	3.70	30	1
CH06	2437	3.92	30	1
CH11	2462	4.43	30	1

Test Mode : TX G Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	12.61	30	1
CH06	2437	12.67	30	1
CH11	2462	12.89	30	1

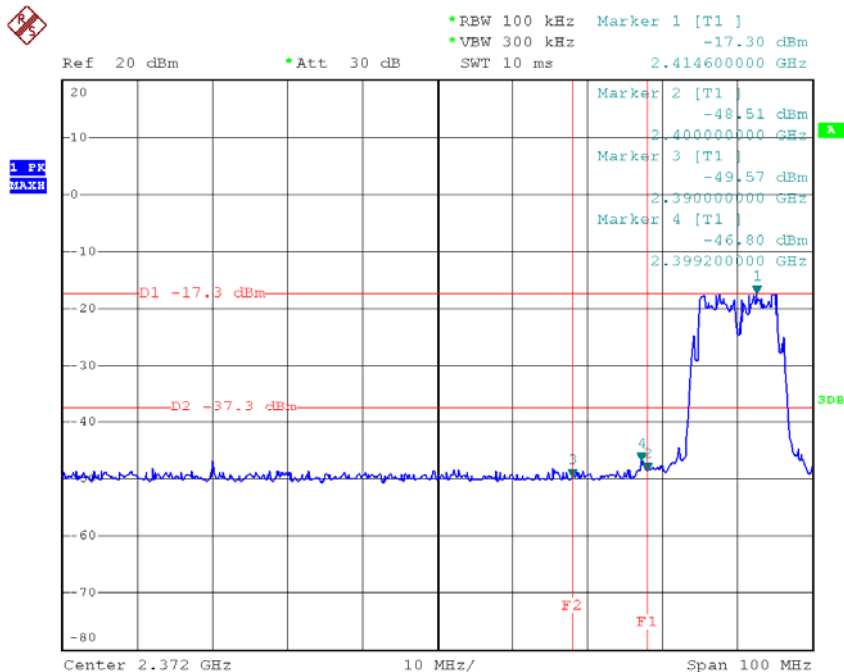


ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION



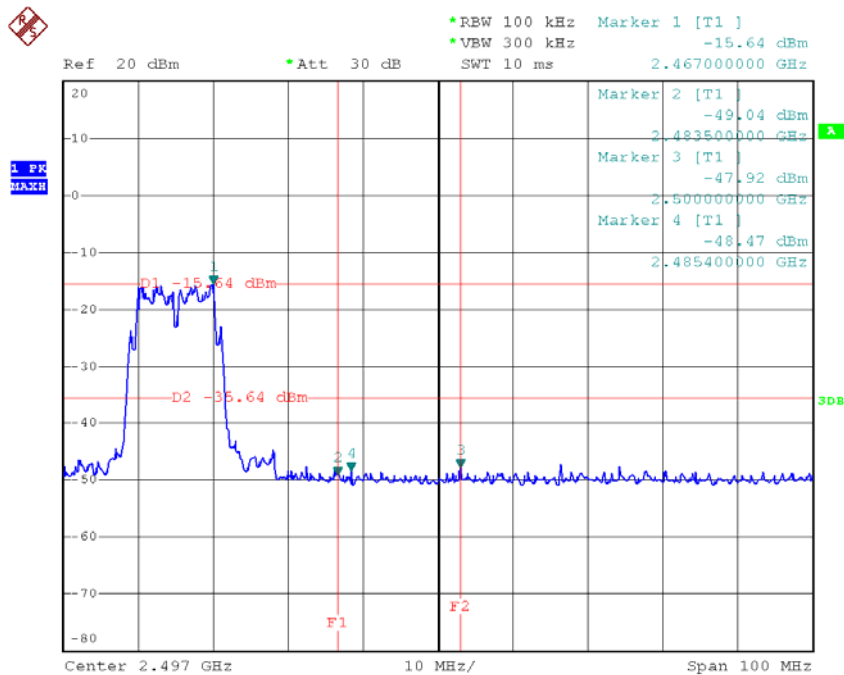
Test Mode : TX B Mode

TX B mode CH01



Date: 10.MAY.2014 14:54:37

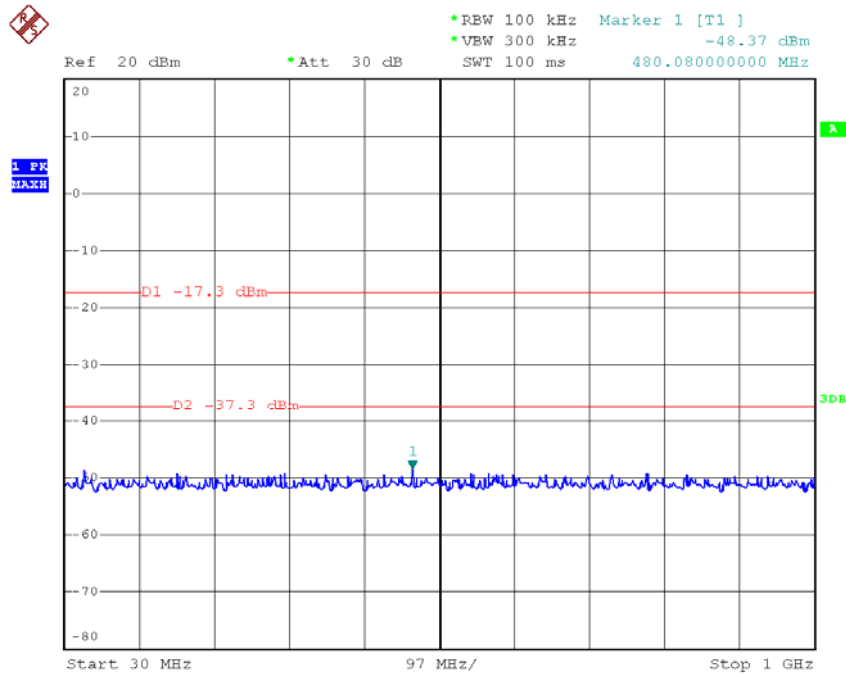
TX B mode CH11



Date: 10.MAY.2014 15:00:44

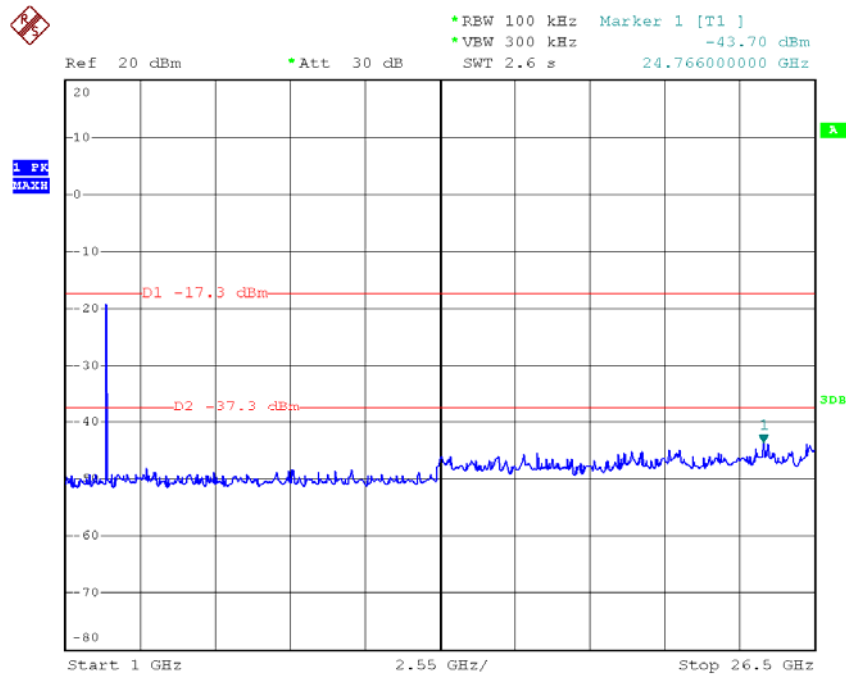


TX B mode CH01 (30MHz to 1000MHz)



Date: 10.MAY.2014 14:58:11

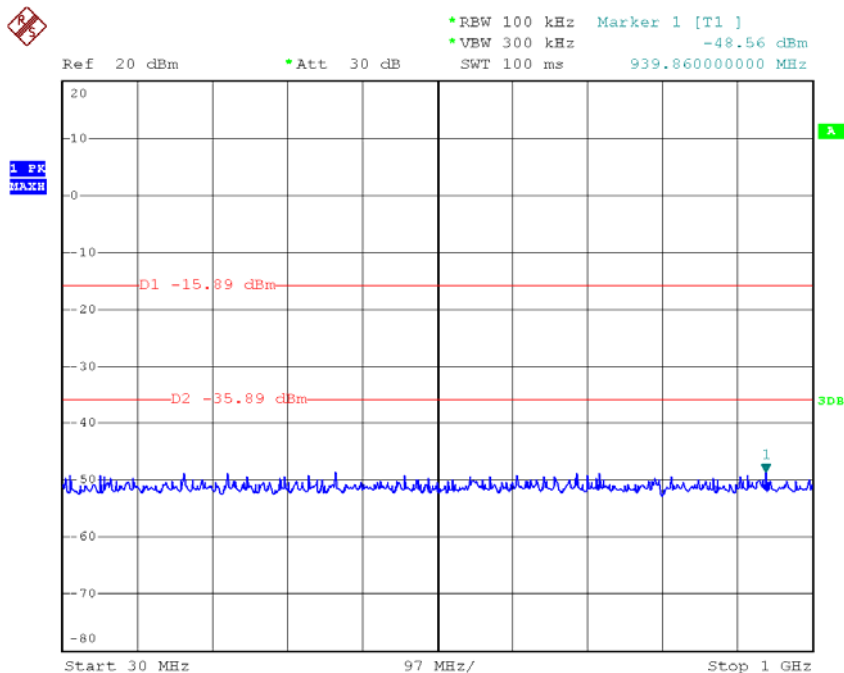
TX B mode CH01 (1000MHz to 10th Harmonic)



Date: 10.MAY.2014 14:58:32

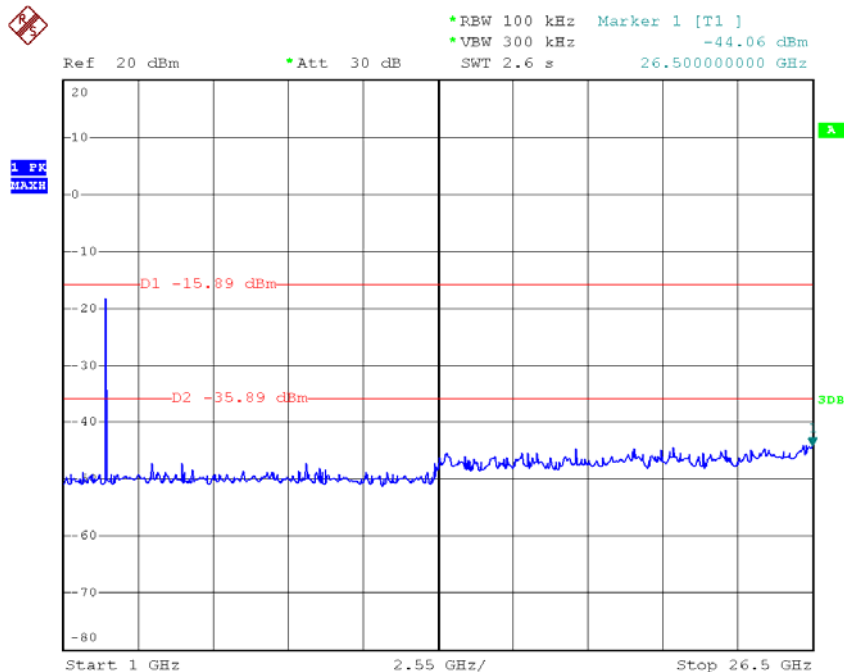


TX B mode CH06 (30MHz to 1000MHz)



Date: 10.MAY.2014 15:03:09

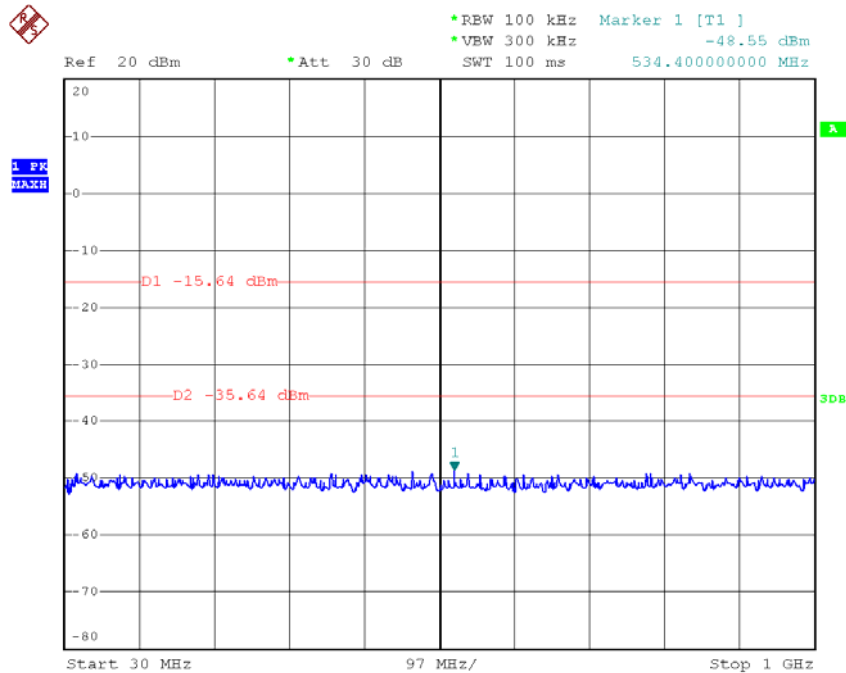
TX B mode CH06 (1000MHz to 10th Harmonic)



Date: 10.MAY.2014 15:03:30

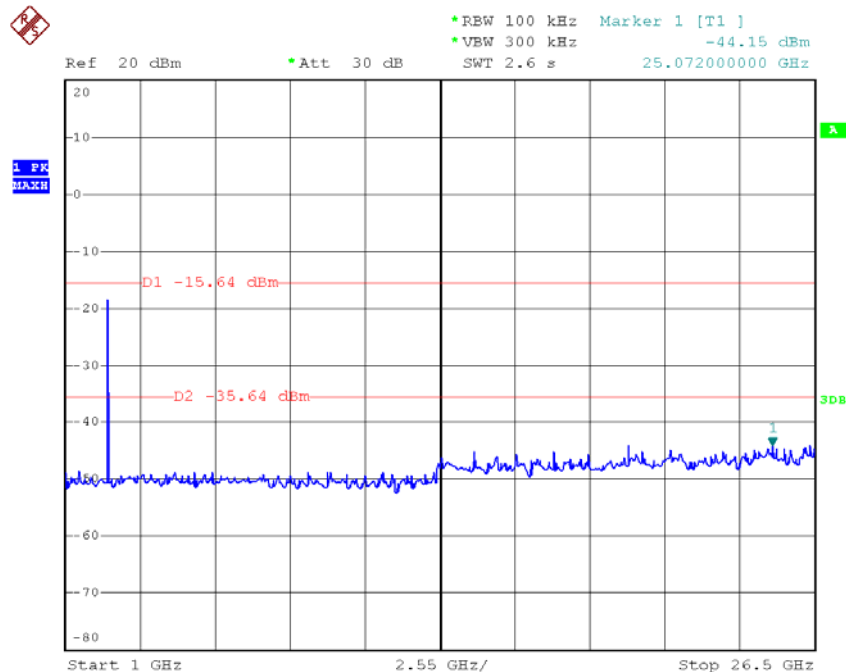


TX B mode CH11 (30MHz to 1000MHz)



Date: 10.MAY.2014 15:01:04

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

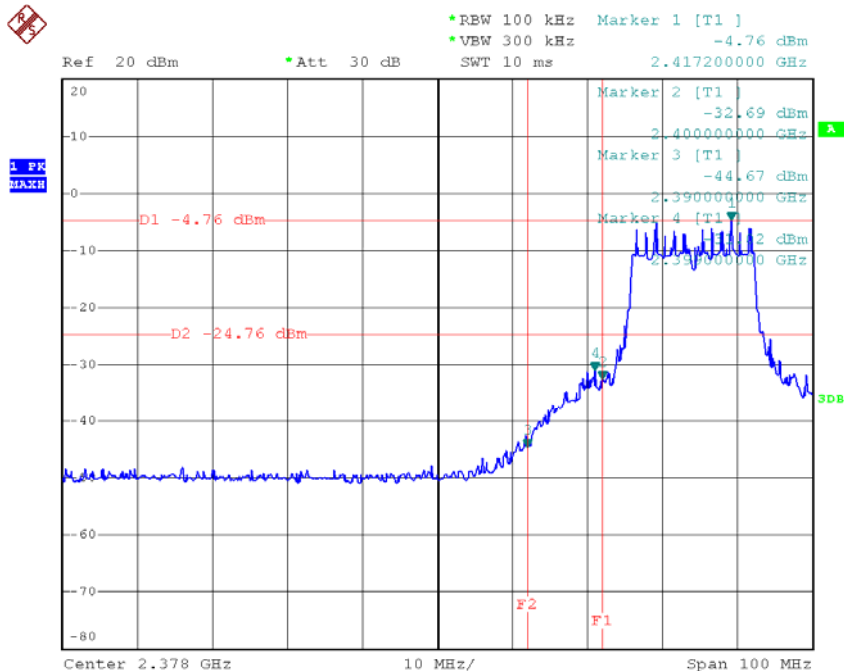


Date: 10.MAY.2014 15:01:16



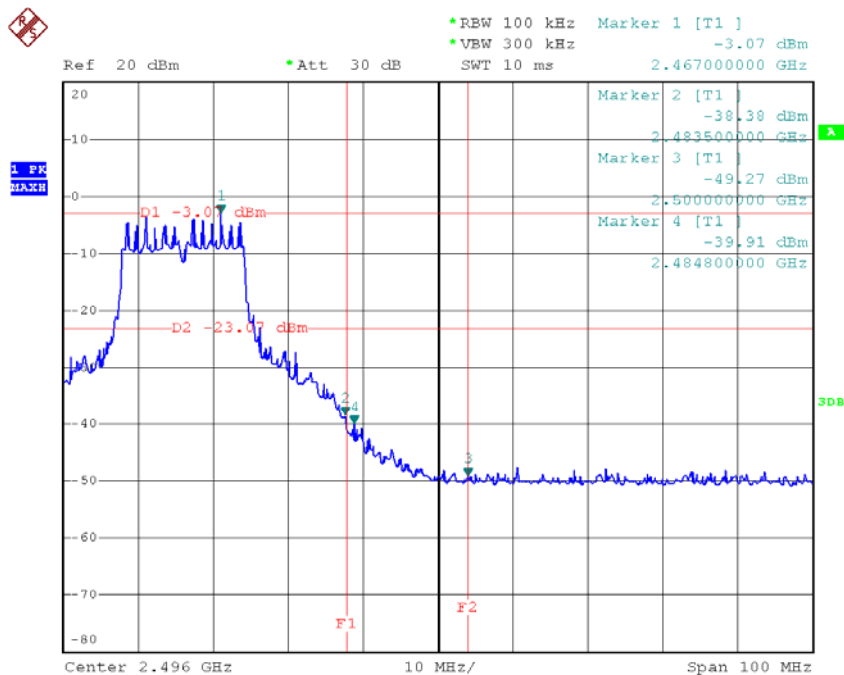
Test Mode : TX G Mode

TX G mode CH01



Date: 10.MAY.2014 14:34:35

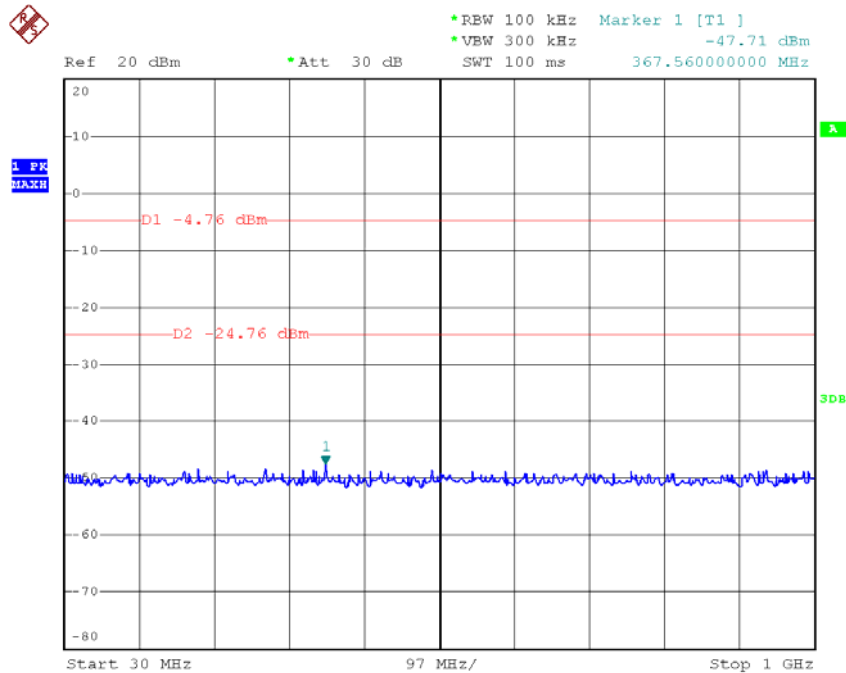
TX G mode CH11



Date: 10.MAY.2014 14:37:50

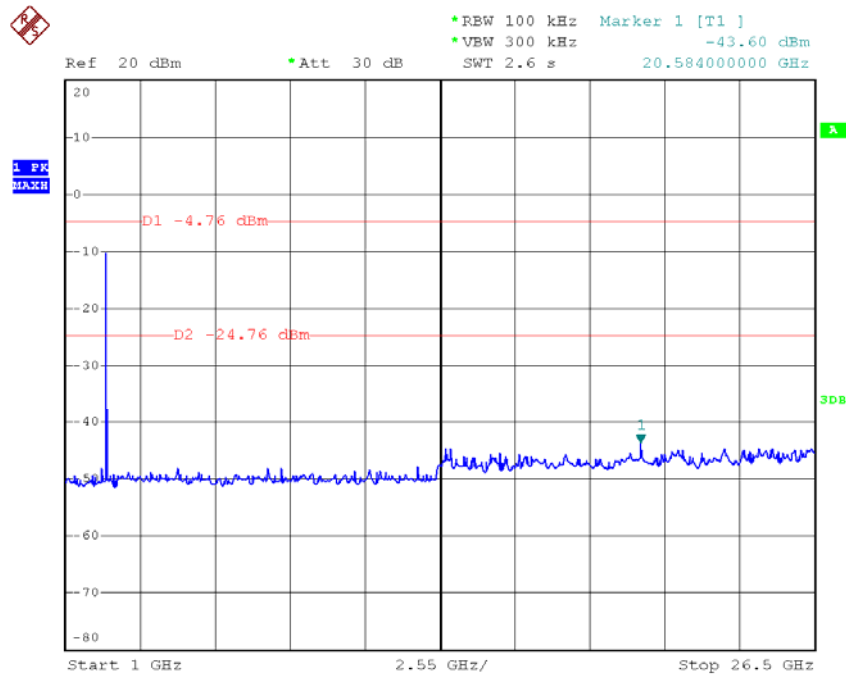


TX G mode CH01 (30MHz to 1000MHz)



Date: 10.MAY.2014 14:35:05

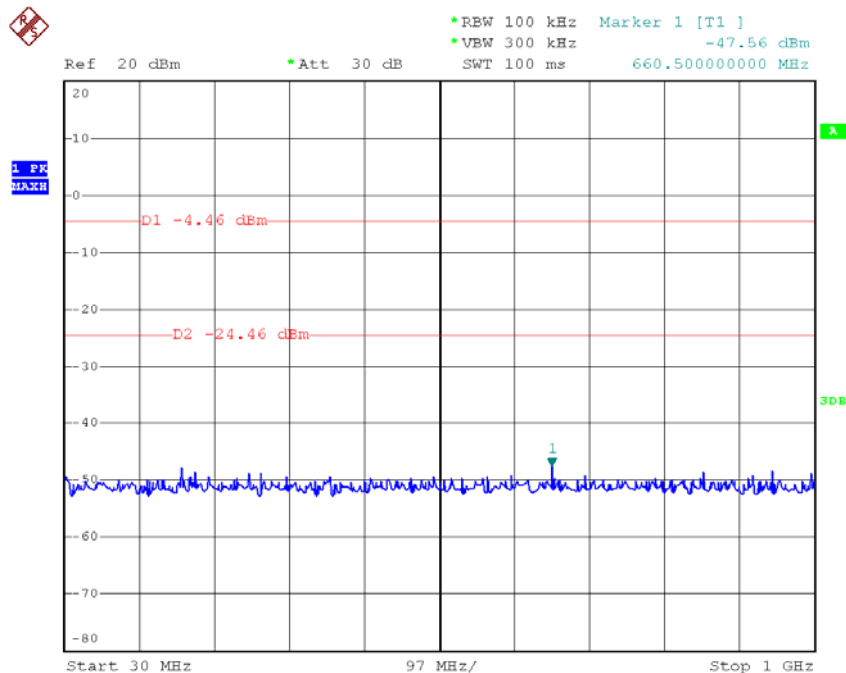
TX G mode CH01 (1000MHz to 10th Harmonic)



Date: 10.MAY.2014 14:35:24

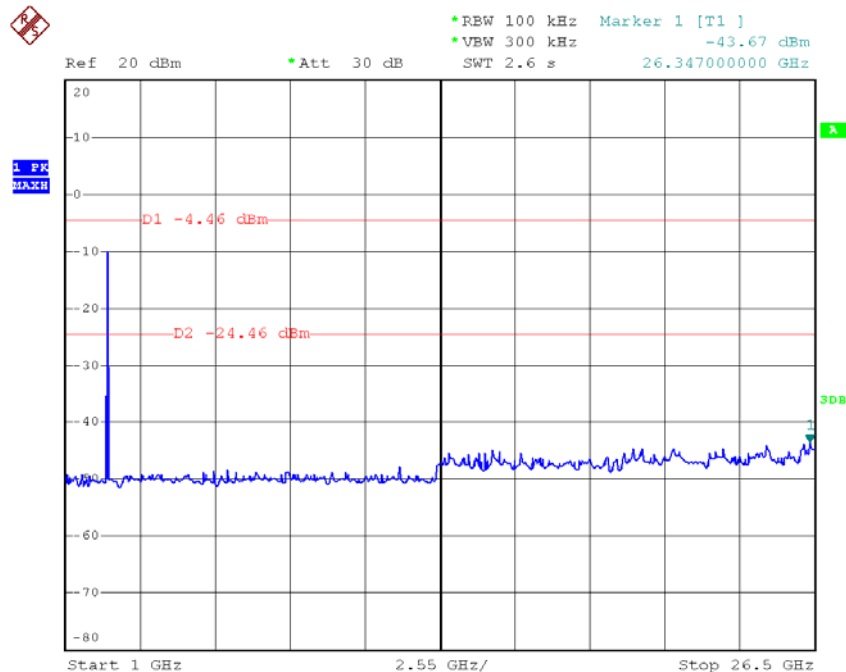


TX G mode CH06 (30MHz to 1000MHz)



Date: 10.MAY.2014 14:40:03

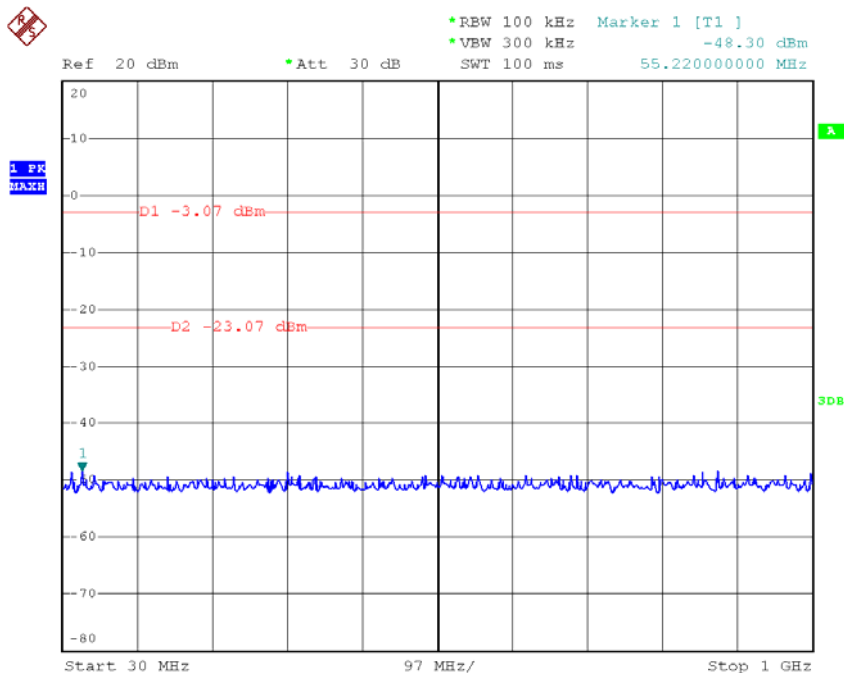
TX G mode CH06 (1000MHz to 10th Harmonic)



Date: 10.MAY.2014 14:40:22

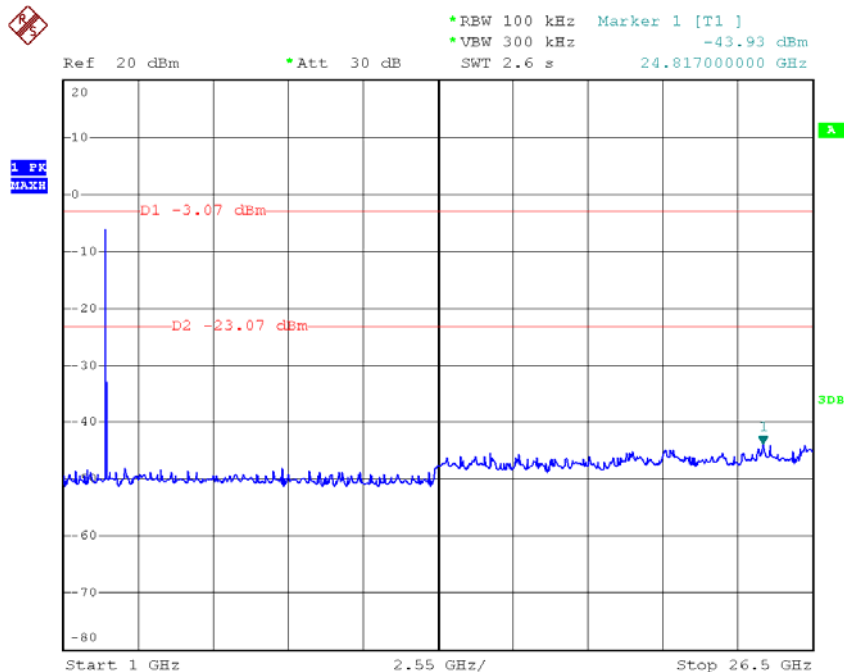


TX G mode CH11 (30MHz to 1000MHz)



Date: 10.MAY.2014 14:38:10

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



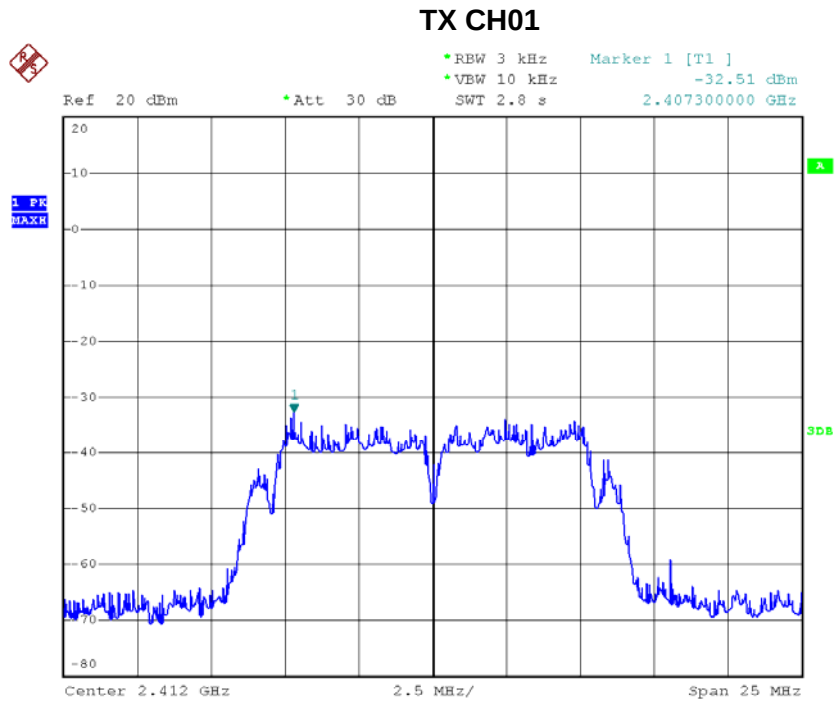
Date: 10.MAY.2014 14:38:29



ATTACHMENT H - POWER SPECTRAL DENSITY



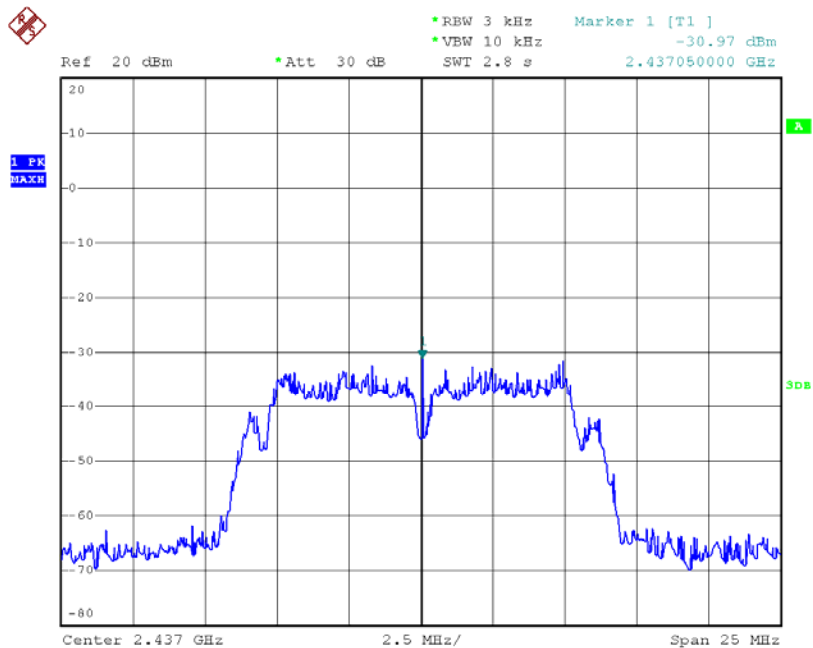
Test Mode :TX B Mode_CH01/06/11



Date: 10.MAY.2014 14:44:29

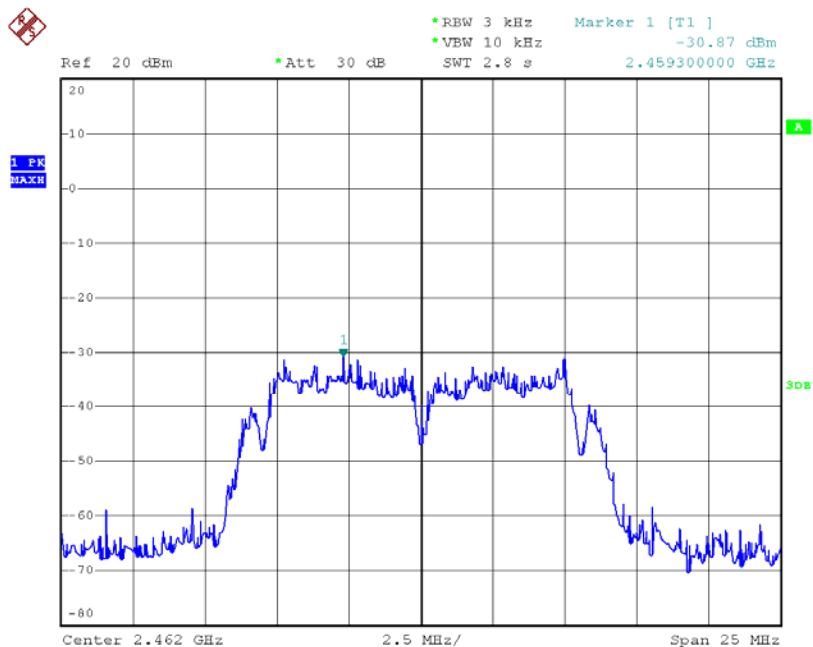


TX CH06



Date: 10.MAY.2014 14:45:57

TX CH11

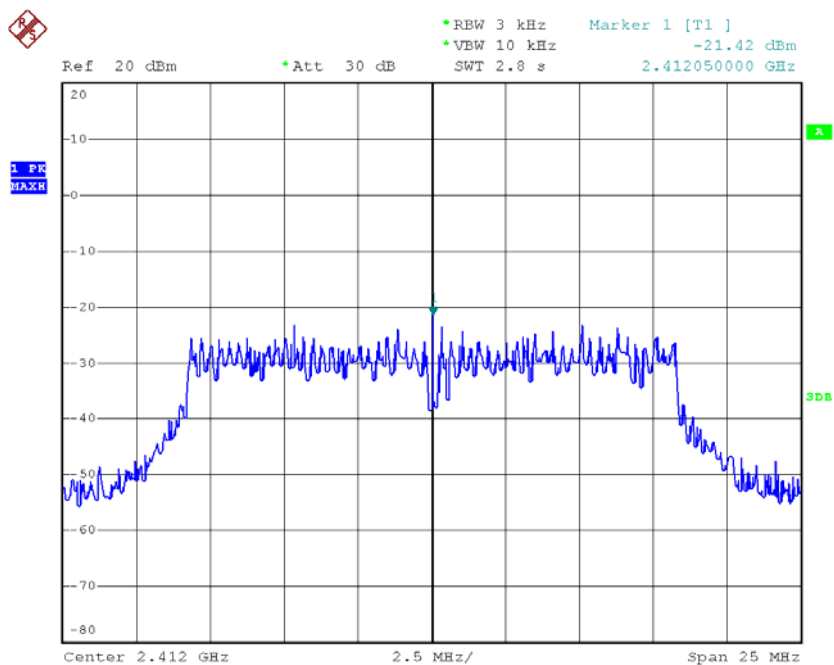


Date: 10.MAY.2014 14:46:47



Test Mode :TX G Mode_CH01/06/11

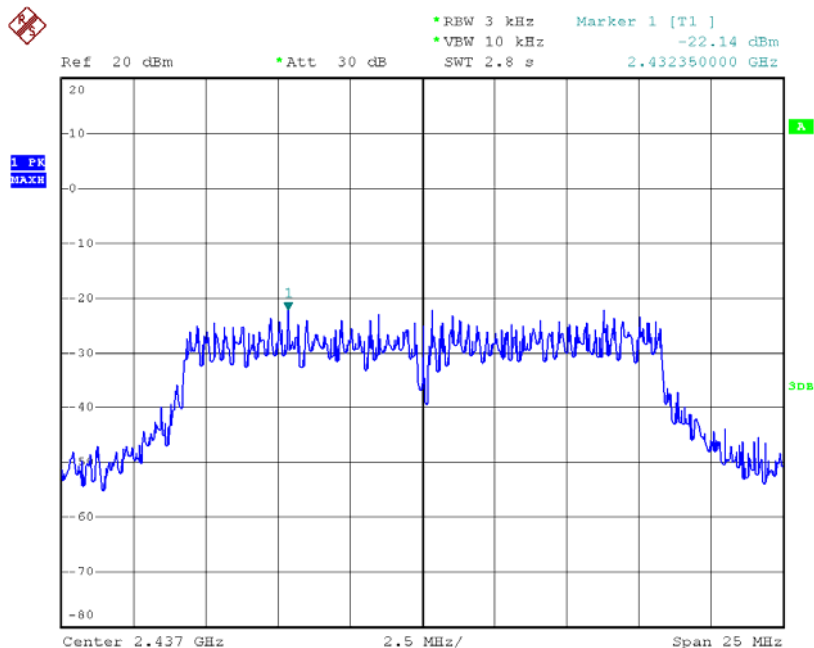
TX CH01



Date: 10.MAY.2014 14:25:38

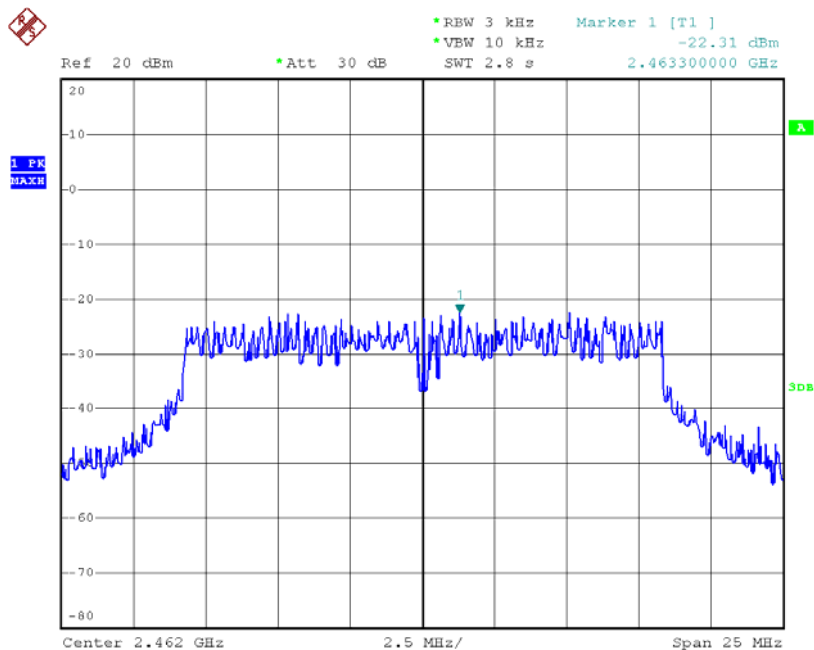


TX CH06



Date: 10.MAY.2014 14:26:53

TX CH11



Date: 10.MAY.2014 14:27:34