

FCC Radio Test Report

FCC ID: M82-ARK1123

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

Project No. : 1604060
Equipment : Computer
Test Model : ARK-1123H
Series Model : ARK-1123H-U0A1E,
ARK1123XXXXXXXXXXXXXXXXXX (where "X" may be
any alphanumeric character, "-" or blank)
Applicant : Advantech Co., Ltd.
Address : No.1, Alley 20, Lane 26, Rueiguang Road, NeiHu
District, Taipei 11491, Taiwan, R.O.C.

Date of Receipt : Apr. 19, 2016
Date of Test : Apr. 19, 2016 ~ Jun. 23, 2016
Issued Date : Jun. 28, 2016
Tested by : BTL Inc.

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Table of Contents	Page
1 . CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	7
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
3.2 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
3.3 DESCRIPTION OF SUPPORT UNITS	13
4 . EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	14
4.1.2 TEST PROCEDURE	14
4.1.3 DEVIATION FROM TEST STANDARD	14
4.1.4 TEST SETUP	15
4.1.5 EUT OPERATING CONDITIONS	15
4.1.6 EUT TEST CONDITIONS	15
4.1.7 TEST RESULTS	15
4.2 RADIATED EMISSION MEASUREMENT	16
4.2.1 RADIATED EMISSION LIMITS	16
4.2.2 TEST PROCEDURE	17
4.2.3 DEVIATION FROM TEST STANDARD	17
4.2.4 TEST SETUP	18
4.2.5 EUT OPERATING CONDITIONS	19
4.2.6 EUT TEST CONDITIONS	19
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	20
4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)	20
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	20
5 . BANDWIDTH TEST	21
5.1 APPLIED PROCEDURES	21
5.1.1 TEST PROCEDURE	21
5.1.2 DEVIATION FROM STANDARD	21
5.1.3 TEST SETUP	21
5.1.4 EUT OPERATION CONDITIONS	21
5.1.5 EUT TEST CONDITIONS	21
5.1.6 TEST RESULTS	21
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	22

Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT	22
6.1.1 TEST PROCEDURE	22
6.1.2 DEVIATION FROM STANDARD	22
6.1.3 TEST SETUP	22
6.1.4 EUT OPERATION CONDITIONS	22
6.1.5 EUT TEST CONDITIONS	22
6.1.6 TEST RESULTS	22
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	23
7.1 APPLIED PROCEDURES / LIMIT	23
7.1.1 TEST PROCEDURE	23
7.1.2 DEVIATION FROM STANDARD	23
7.1.3 TEST SETUP	23
7.1.4 EUT OPERATION CONDITIONS	23
7.1.5 EUT TEST CONDITIONS	23
7.1.6 TEST RESULTS	23
8 . POWER SPECTRAL DENSITY TEST	24
8.1 APPLIED PROCEDURES / LIMIT	24
8.1.1 TEST PROCEDURE	24
8.1.2 DEVIATION FROM STANDARD	24
8.1.3 TEST SETUP	24
8.1.4 EUT OPERATION CONDITIONS	24
8.1.5 EUT TEST CONDITIONS	24
8.1.6 TEST RESULTS	24
9 . MEASUREMENT INSTRUMENTS LIST	25
10 . EUT TEST PHOTO	27
ATTACHMENT A - CONDUCTED EMISSION	31
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	34
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	39
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	42
ATTACHMENT E - BANDWIDTH	91
ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER	108
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	113
ATTACHMENT H - POWER SPECTRAL DENSITY	138

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1604060	Original Issue.	Jun. 28, 2016

1. CERTIFICATION

Equipment : Computer
Brand Name : ADVANTECH
Test Model : ARK-1123H
Series Model : ARK-1123H-U0A1E, ARK1123XXXXXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)
Applicant : Advantech Co., Ltd.
Manufacturer : Advantech Co., Ltd.
Address : No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.
Date of Test : Apr. 19, 2016 ~ Jun. 23, 2016
Test Sample : Production Unit
Standard(s) : FCC Part15, Subpart C (15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1604060) 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).

Test results included in this report is only for the 2.4G WLAN part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

NOTE:

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

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB11: (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088-2)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB11: (VCCI RN: G-868; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088-2)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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 BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

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 emission test:

Test Site	Method	Measurement Frequency Range	U, (dB)
C05	CISPR	150 kHz~30MHz	2.04

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U, (dB)
CB11 (3m)	CISPR	9kHz ~ 150kHz	4.00
		150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (3m)	CISPR	30 MHz ~ 200 MHz	V	3.06
		30 MHz ~ 200 MHz	H	2.58
		200 MHz ~ 1, 000 MHz	V	3.50
		200 MHz ~ 1, 000 MHz	H	3.10

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (3m)	CISPR	1GHz ~ 6GHz	V	4.14
		1GHz ~ 6GHz	H	4.14

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (1m)	CISPR	6GHz ~ 18GHz	V	5.34
		6GHz ~ 18GHz	H	5.34

Test Site	Method	Measurement Frequency Range	U, (dB)
CB08 (1m)	CISPR	18 ~ 26.5 GHz	4.66
		26.5 ~ 40 GHz	4.74

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

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

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

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

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Computer		
Brand Name	ADVANTECH		
Test Model	ARK-1123H		
Series Model	ARK-1123H-U0A1E, ARK1123XXXXXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)		
Model Difference	FOR MARKETING NAME		
EUT Power Rating	I/P: DC 12V		
Power Adapter Manufacturer	FSP	Model	FSP036-RBBN2
Power Adapter Power Rating	I/P: AC 100-240V 1.2A 50-60Hz O/P: DC 12V 3.0A		
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: MSC15
	Output Power (Max.)		802.11b: 21.66 dBm 802.11g: 27.14 dBm 802.11n(20MHz): 26.83 dBm 802.11n(40MHz): 26.35 dBm
CPU Manufacturer	Intel	Model	Celeron™ J1900 Quad Core 2.0 GHz
Main Board Manufacturer	ADVANTECH	Model	MIO-2263
I/O Board Manufacturer	ADVANTECH	Model	AMO-M010
Memory Manufacturer	ADVANTECH	Model	AQD-SD3L8GN16-SG, 8 GB
SSD Manufacturer	ADVANTECH	Spec.	32 GB
PCIE 802.11A/B/G/N 2.4GZ/5GHZ + USB BT 4.0 CARD Manufacturer	ADVANTECH	Model	AR5B22

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Invax	R-AN2450-5701RS	Dipole	SMA Male Reverse	1.47
2	Invax	R-AN2450-5701RS	Dipole	SMA Male Reverse	1.47

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

(2) Directional gain = $G_{ANT} + 10 \log(N)$ dBi = $1.47 + 10 \log(2) = 4.48$ dBi.

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

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
Model 5	Normal Link

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

Note:

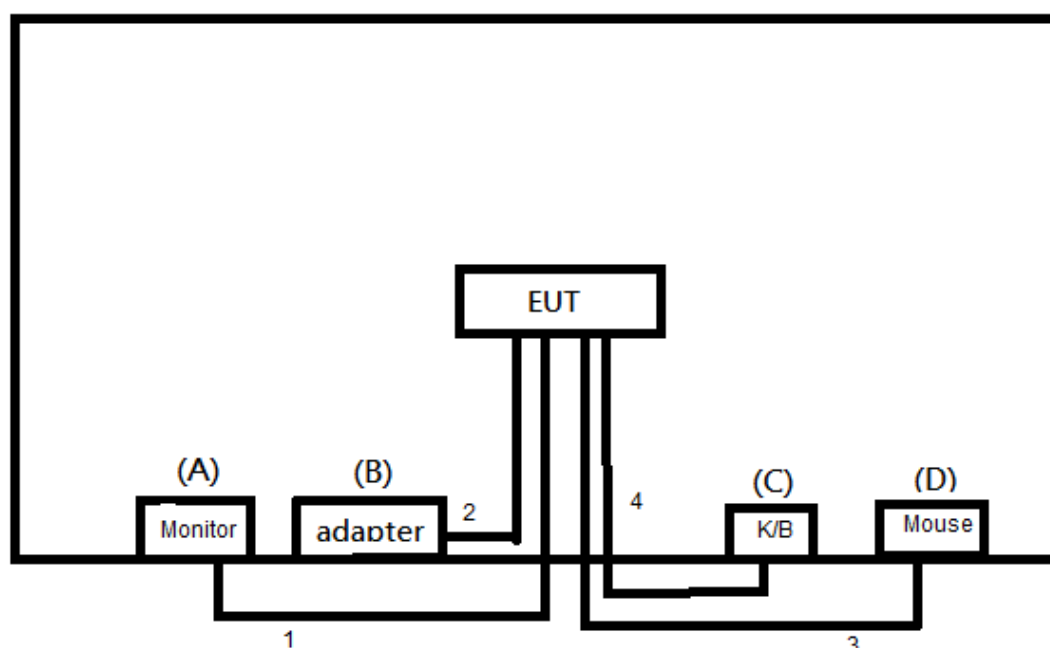
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT20 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For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

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	ART2_Gul		
Frequency (MHz)	2412	2437	2462
802.11b	16.5;16.5	16.5;16.5	15.5;15.5
802.11g	10.5;10.5	14;14	10.5;10.5
802.11n (20MHz)	11;11	13.5;13.5	11;11
Frequency (MHz)	2422	2437	2452
802.11n (20MHz)	4;4	13;13	8;8

3.2 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.3 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	30" LCD Monitor	DELL	3008WFPt	DOC	CN-0G501H74445-95K-0
B	Adapter	FSP GROUP	FSP036-RBBN2	N/A	H5341000328
C	USB K/B	Logitech	Y-BL49	DOC	STW43302534
D	PS/2 Mouse	Logitech	M-SBF69	DOC	HCA44601156

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	HDMI
2	NO	NO	1.5m	Power Core
3	NO	NO	1.5m	USB Cable
4	NO	NO	1.5m	USB Cable

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 of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

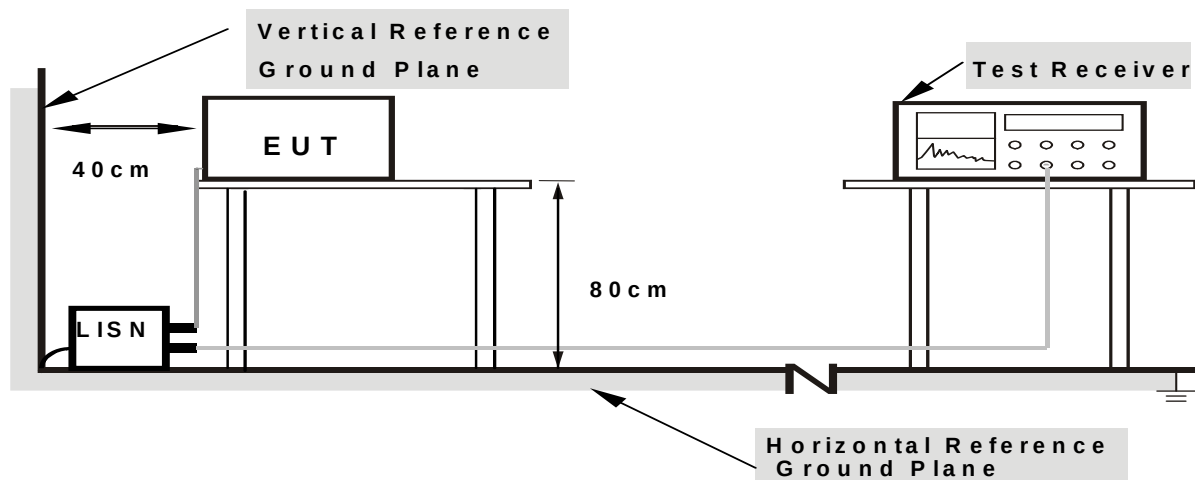
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support 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 placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

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

4.2.2 TEST PROCEDURE

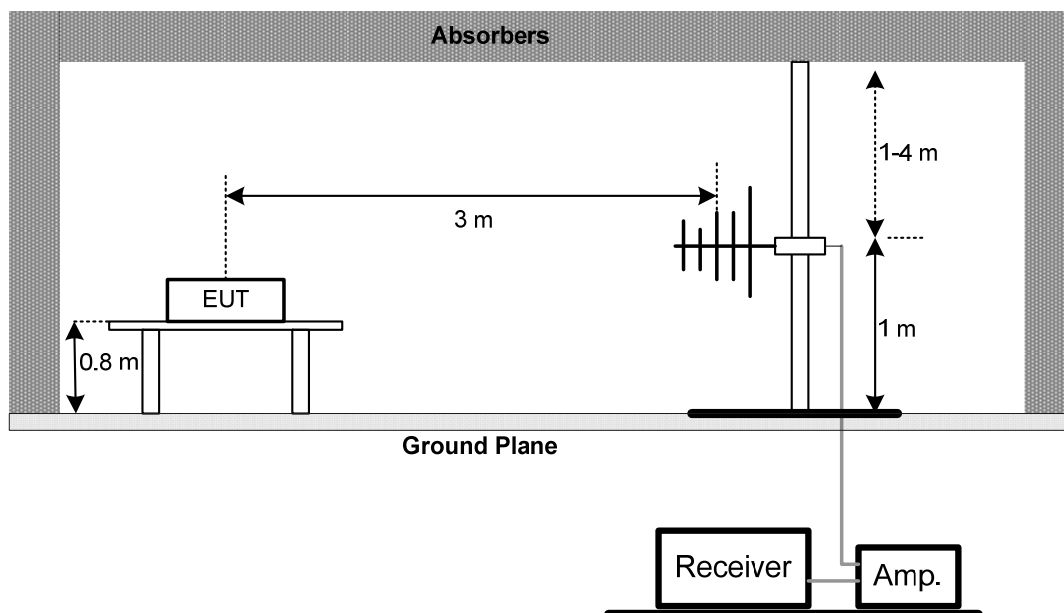
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

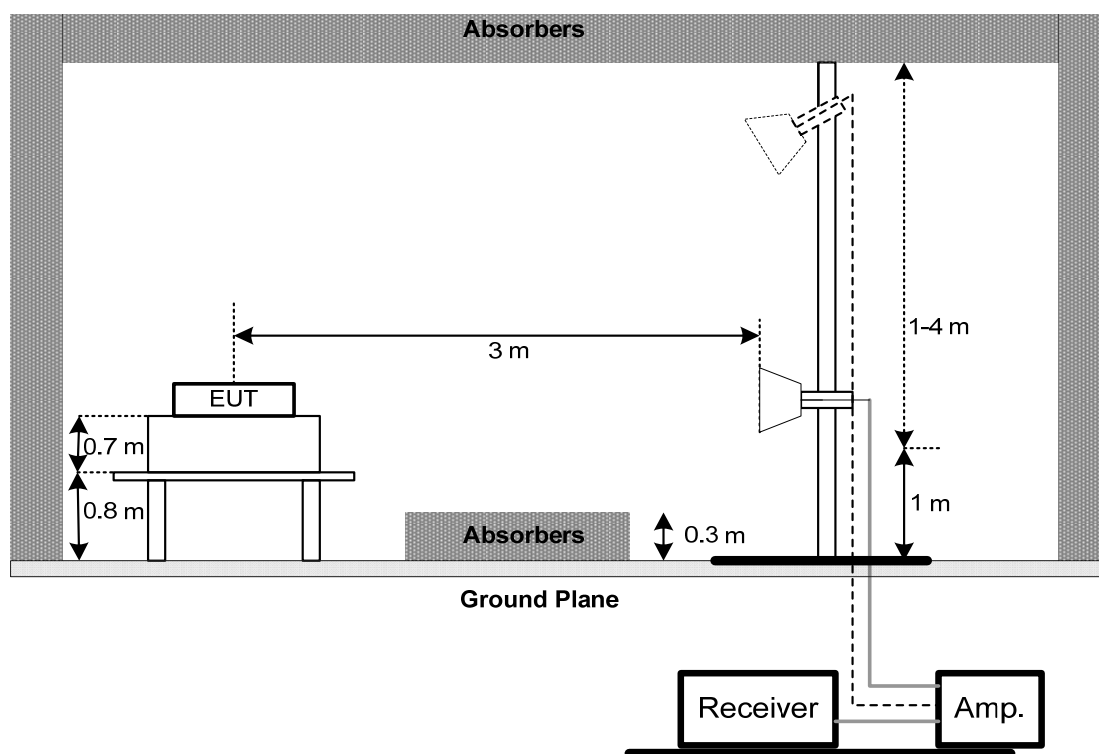
No deviation

4.2.4 TEST SETUP

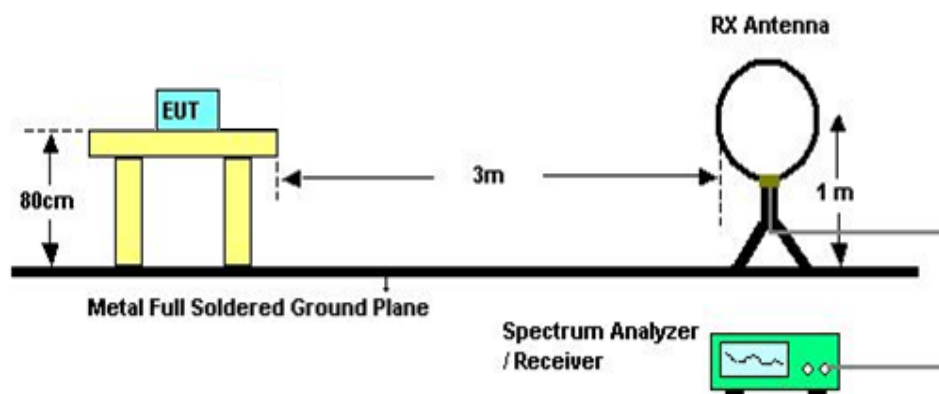
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 45% 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 (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

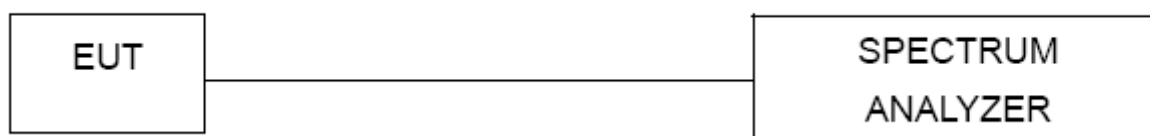
5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r04.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the 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 device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 26, 2017
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 14, 2016
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2016
4	Power Dividers	HP	11636A	8103	May 03, 2017
5	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9038A	MY51210215	Jun. 06, 2017
2	Horn Antenna	Schwarzbeck	BBHA 9120	D 546	Nov. 04, 2016
3	Microwave Pre_amplifier	HP	8447D	2944A08891	Mar. 07, 2017
4	Test Cable	EMCI	EMC104-SM-S M-5000	150302	Mar. 07, 2017
5	Test Cable	EMCI	EMC104-SM-S M-800	150305	Mar. 07, 2017
6	Test Cable	EMCI	EMC104-SM-S M-2500	150306	Mar. 07, 2017
7	Test Cable	EMCI	EMC8D-NM-NM -8000	150301	Mar. 07, 2017
8	Test Cable	EMCI	EMC8D-NM-NM -2500	150303	Mar. 07, 2017
9	Test Cable	EMCI	EMC8D-NM-NM -1000	150304	Mar. 07, 2017
10	Pre-Amplifier	Agilent	8449B	3008A02331	Jan. 23, 2017
11	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	9168-364	Feb. 03, 2017
12	Preamplifier With Adaptor	EMC	EMC2654045	980030	Feb. 14, 2017
13	Loop Antenna	EMCO	6502	00042960	Nov. 15. 2016

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	May 18, 2017
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 17, 2017

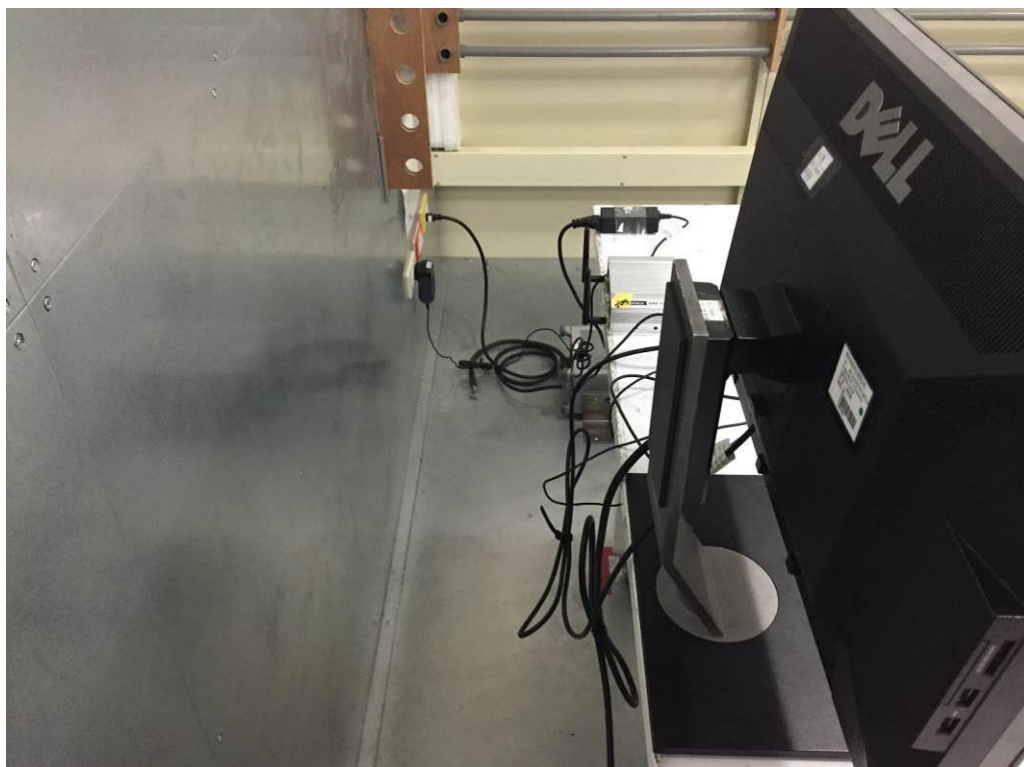
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

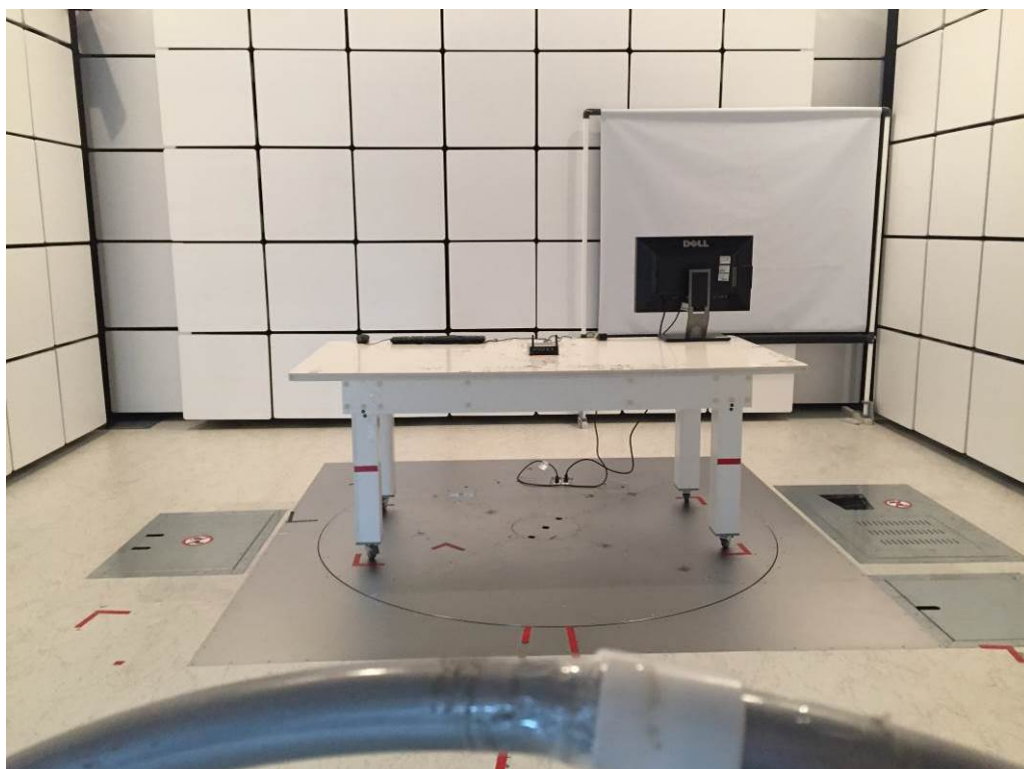
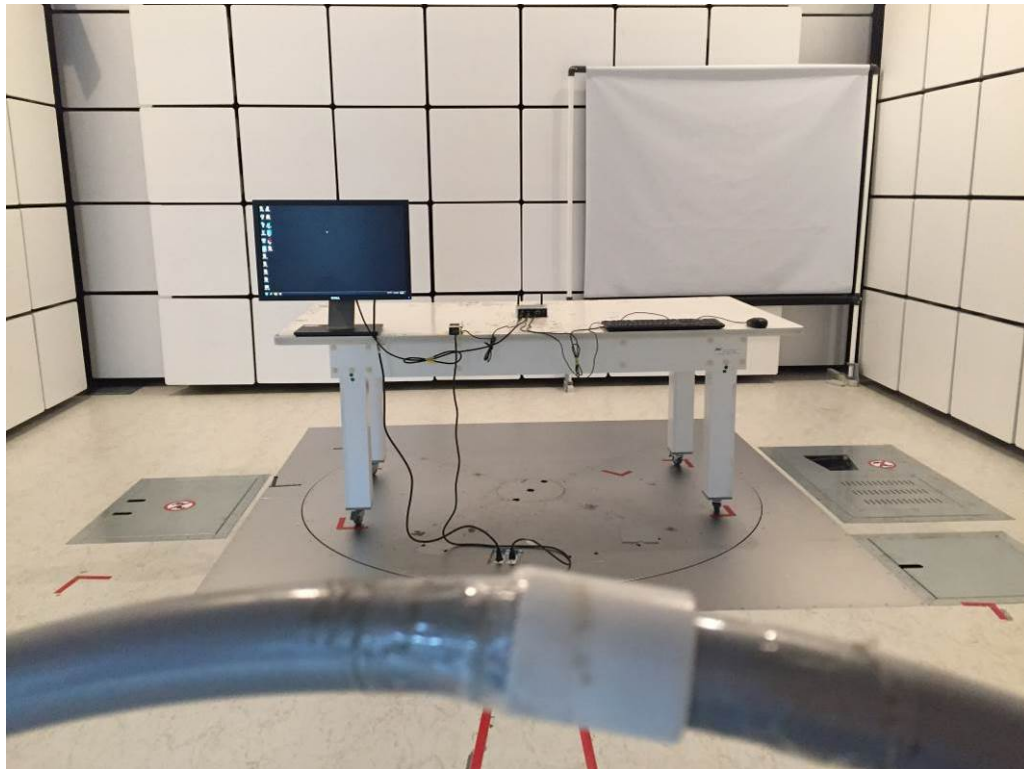
Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

10. EUT TEST PHOTO

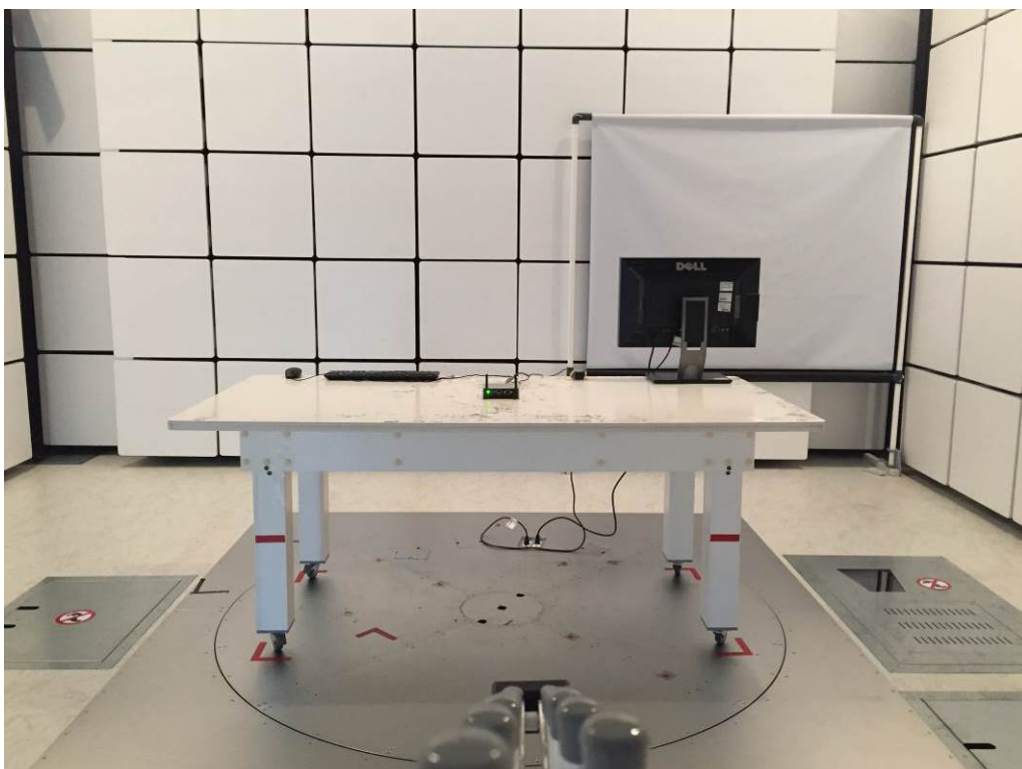
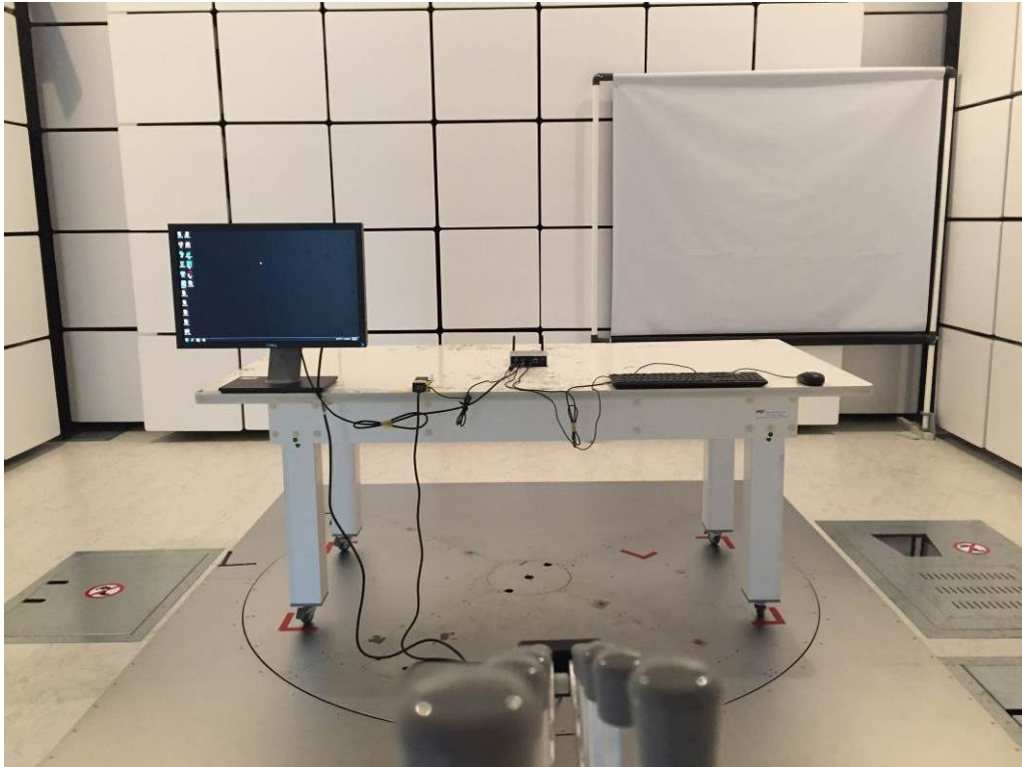
Conducted Measurement Photos



Radiated Measurement Photos 9KHz to 30MHz



Radiated Measurement Photos 30MHz to 1000MHz



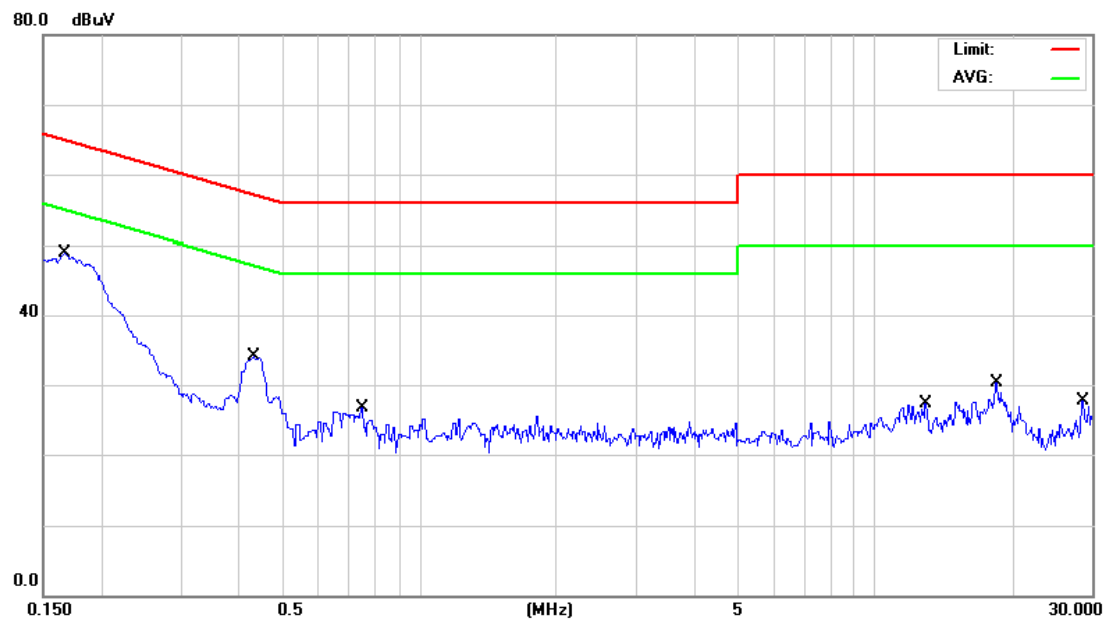
Radiated Measurement Photos Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: Normal Link

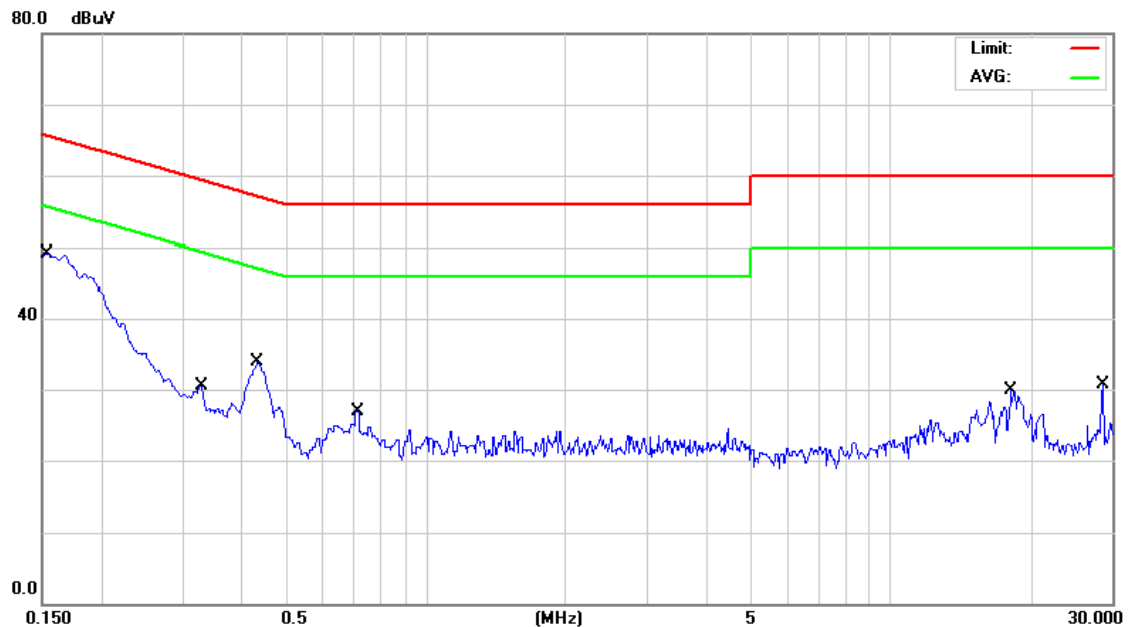
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1668	33.70	9.68	43.38	65.11	-21.73	QP	
2	*	0.1668	24.40	9.68	34.08	55.11	-21.03	AVG	
3		0.4321	19.90	9.69	29.59	57.21	-27.62	QP	
4		0.4321	14.40	9.69	24.09	47.21	-23.12	AVG	
5		0.7520	10.90	9.70	20.60	56.00	-35.40	QP	
6		0.7520	5.70	9.70	15.40	46.00	-30.60	AVG	
7		12.9500	8.00	9.91	17.91	60.00	-42.09	QP	
8		12.9500	3.50	9.91	13.41	50.00	-36.59	AVG	
9		18.3500	13.00	9.91	22.91	60.00	-37.09	QP	
10		18.3500	6.70	9.91	16.61	50.00	-33.39	AVG	
11		28.5000	9.10	9.94	19.04	60.00	-40.96	QP	
12		28.5000	2.00	9.94	11.94	50.00	-38.06	AVG	

Test Mode: Normal Link

Neutral

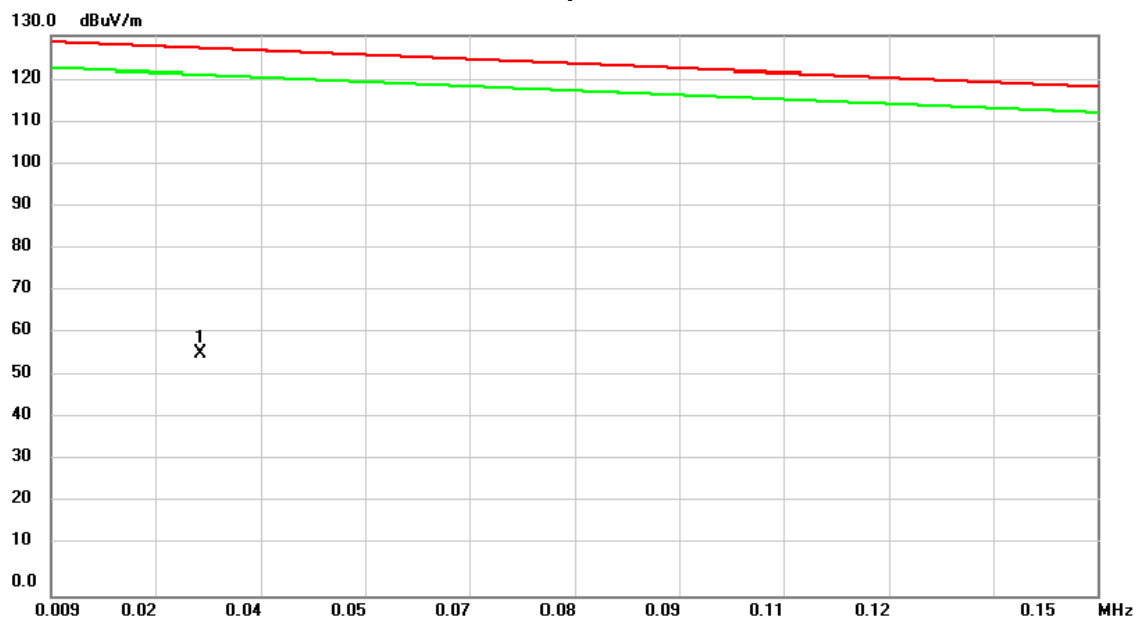


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1535	33.80	9.69	43.49	65.80	-22.31	QP	
2		0.1535	18.90	9.69	28.59	55.80	-27.21	AVG	
3		0.3271	10.20	9.68	19.88	59.52	-39.64	QP	
4		0.3271	2.60	9.68	12.28	49.52	-37.24	AVG	
5		0.4342	18.00	9.69	27.69	57.17	-29.48	QP	
6		0.4342	12.40	9.69	22.09	47.17	-25.08	AVG	
7		0.7160	10.60	9.71	20.31	56.00	-35.69	QP	
8		0.7160	6.40	9.71	16.11	46.00	-29.89	AVG	
9		18.1000	11.90	9.90	21.80	60.00	-38.20	QP	
10		18.1000	5.40	9.90	15.30	50.00	-34.70	AVG	
11		28.5500	5.90	9.96	15.86	60.00	-44.14	QP	
12		28.5500	1.40	9.96	11.36	50.00	-38.64	AVG	

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

Test Mode:	TX B MODE CHANNEL 06
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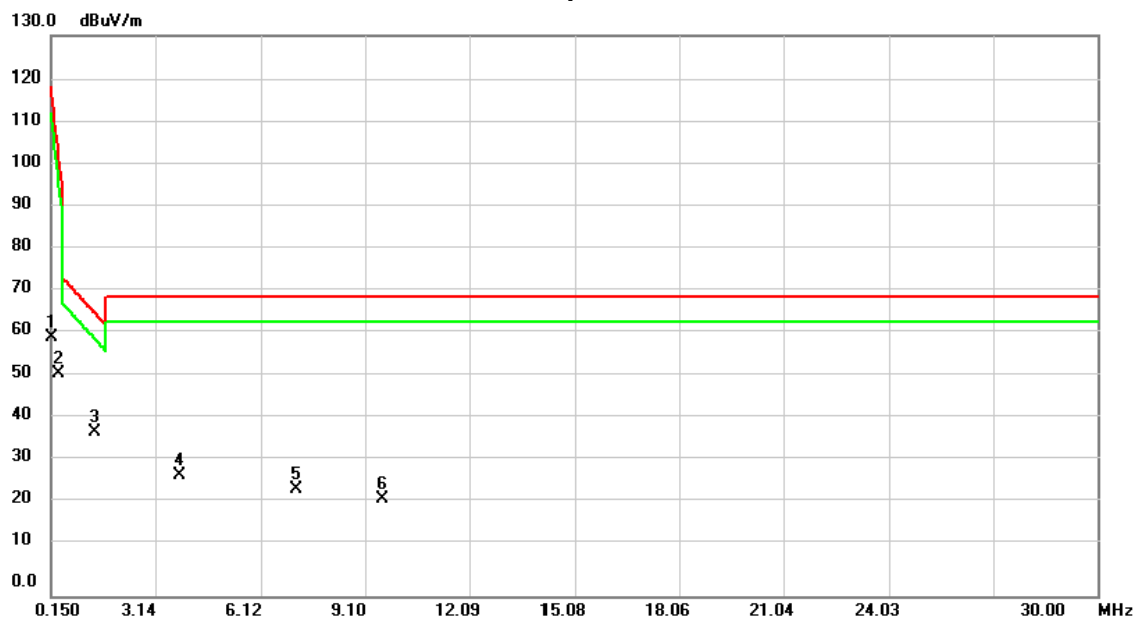
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0293	41.21	15.19	56.40	127.05	-70.65	peak	

Test Mode:	TX B MODE CHANNEL 06
------------	----------------------

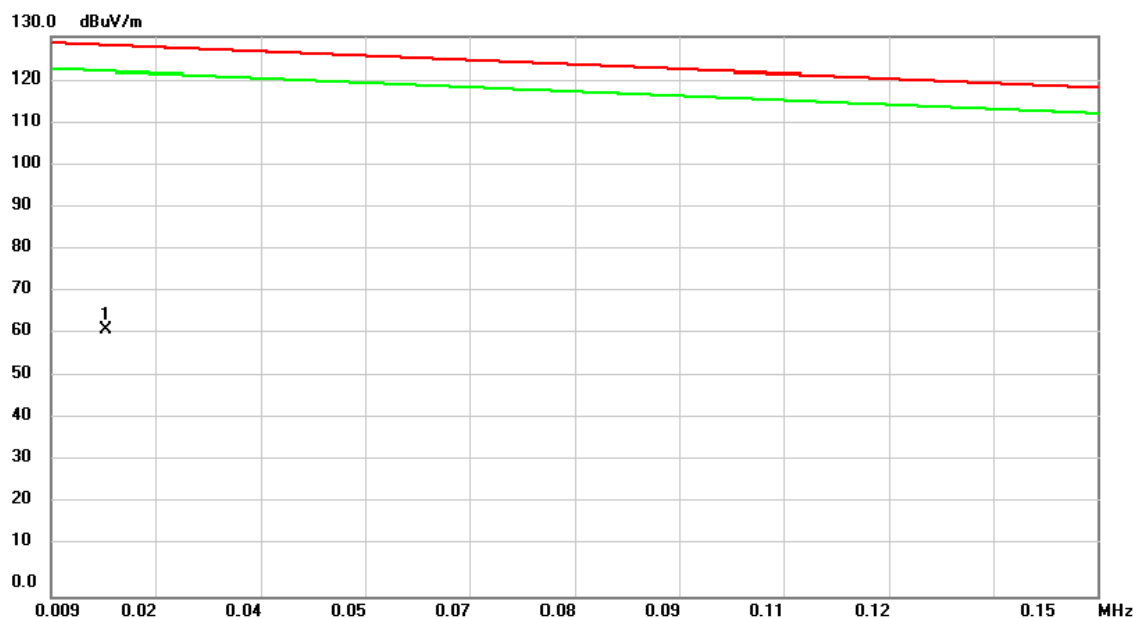
Open



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2		0.3490	39.98	11.80	51.78	103.98	-52.20	peak	
3	*	1.3838	26.31	11.83	38.14	65.83	-27.69	peak	
4		3.8116	16.74	11.22	27.96	69.54	-41.58	peak	
5		7.1150	13.35	11.36	24.71	69.54	-44.83	peak	
6		9.5826	11.13	11.31	22.44	69.54	-47.10	peak	

Test Mode:	TX B MODE CHANNEL 06
------------	----------------------

Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0165	43.16	18.71	61.87	127.98	-66.11	peak	

Test Mode:	TX B MODE CHANNEL 06
------------	----------------------

Close

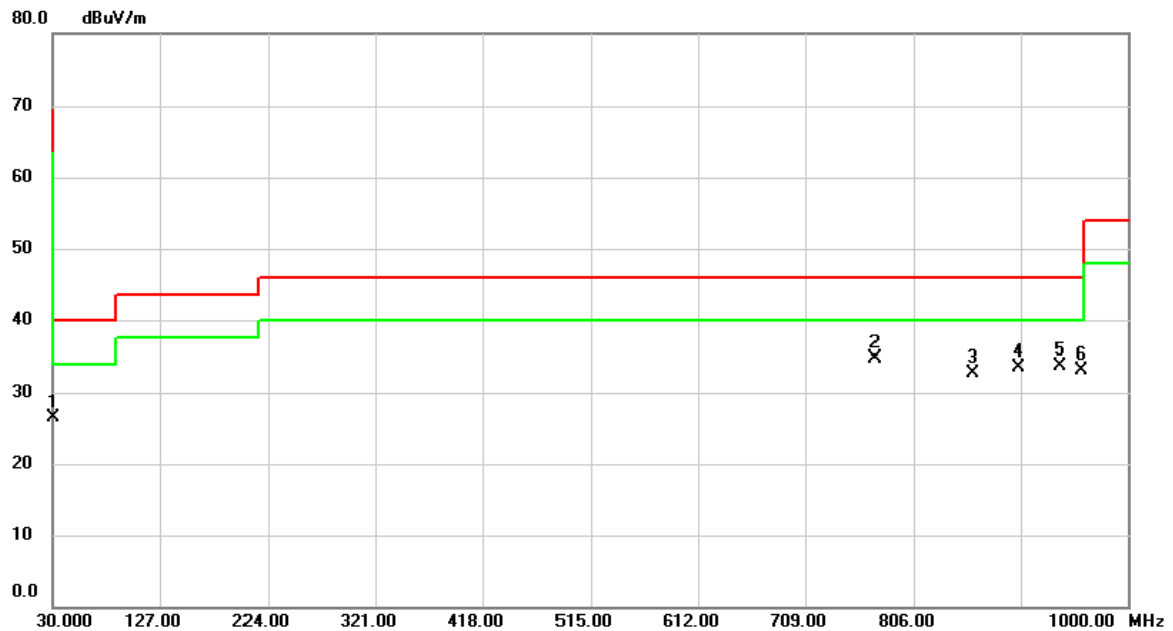


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.1898	45.98	11.97	57.95	115.47	-57.52	peak	
2		0.4684	36.41	11.80	48.21	95.36	-47.15	peak	
3	*	0.6276	33.40	11.85	45.25	72.57	-27.32	peak	
4		1.9012	22.56	11.59	34.15	69.54	-35.39	peak	
5		4.6872	16.54	11.35	27.89	69.54	-41.65	peak	
6		7.4334	12.85	11.35	24.20	69.54	-45.34	peak	

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

Test Mode:	TX B MODE CHANNEL 06
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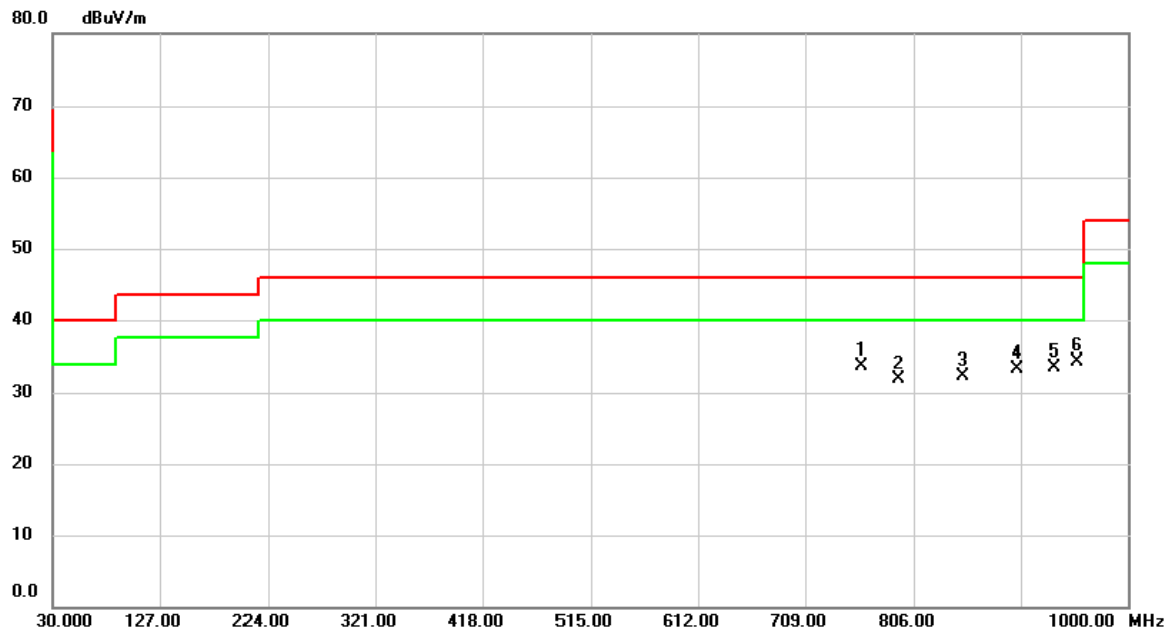
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		30.9700	35.44	-8.92	26.52	40.00	-13.48	peak	
2	*	771.0800	32.16	2.57	34.73	46.00	-11.27	peak	
3		859.3500	28.96	3.78	32.74	46.00	-13.26	peak	
4		901.0600	28.88	4.62	33.50	46.00	-12.50	peak	
5		937.9200	28.47	5.28	33.75	46.00	-12.25	peak	
6		958.2900	27.48	5.60	33.08	46.00	-12.92	peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

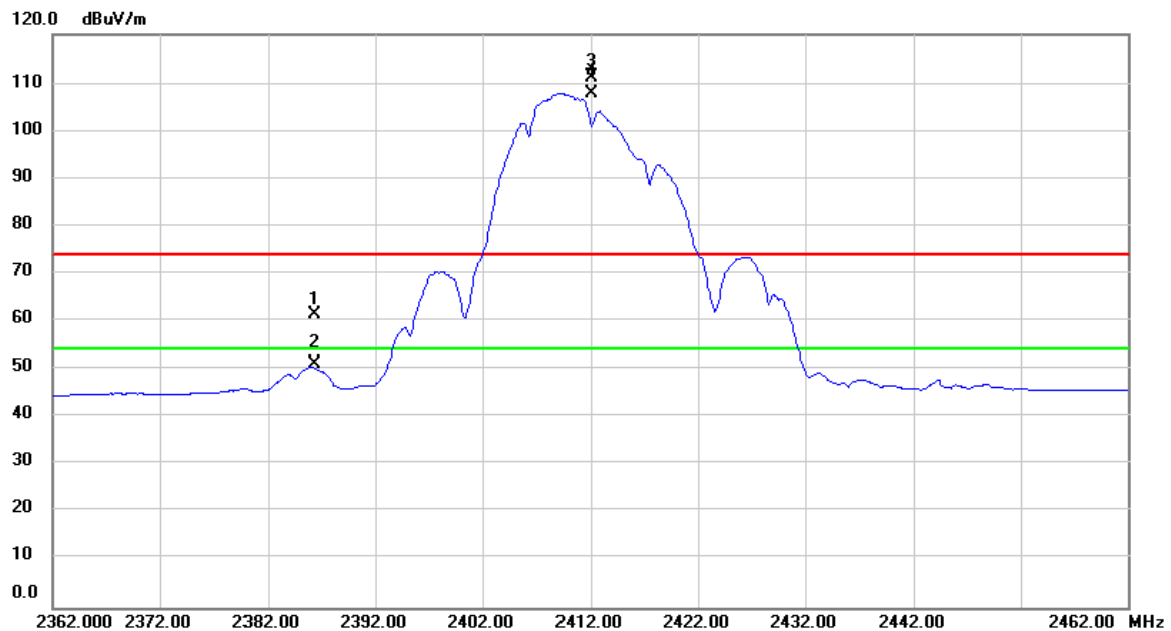


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		760.4100	31.31	2.45	33.76	46.00	-12.24	peak	
2		792.4200	29.03	2.79	31.82	46.00	-14.18	peak	
3		850.6200	28.68	3.61	32.29	46.00	-13.71	peak	
4		899.1200	28.65	4.60	33.25	46.00	-12.75	peak	
5		933.0700	28.30	5.19	33.49	46.00	-12.51	peak	
6	*	953.4400	28.73	5.53	34.26	46.00	-11.74	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

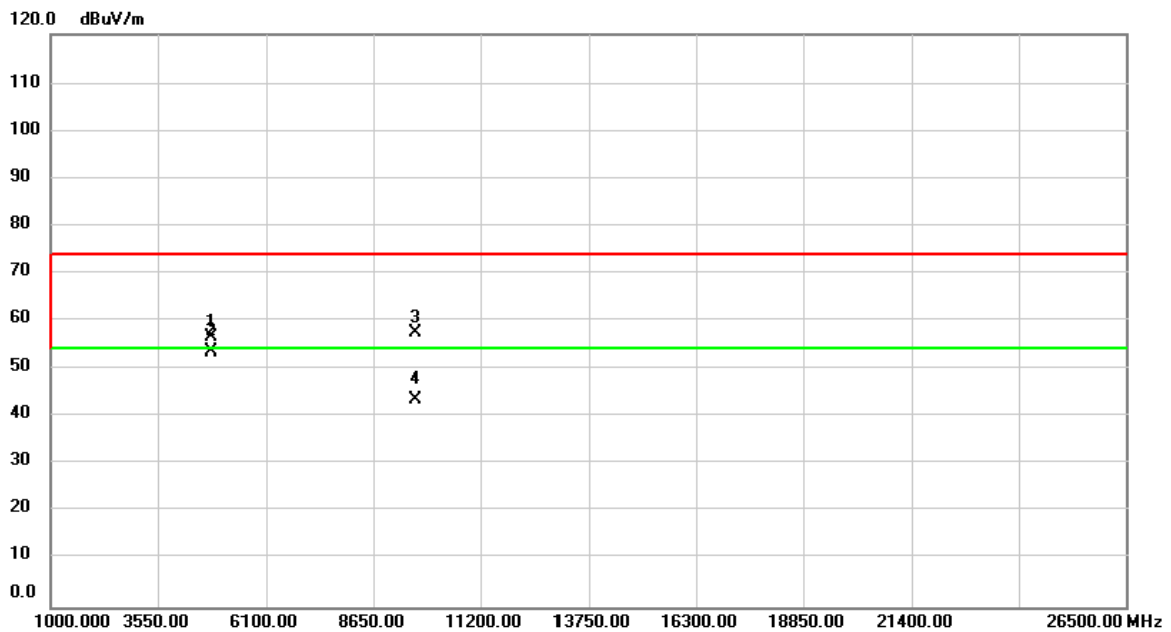
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.360	29.74	31.69	61.43	74.00	-12.57	peak	
2		2386.360	19.39	31.69	51.08	54.00	-2.92	AVG	
3	X	2412.000	79.26	31.79	111.05	74.00	37.05	peak	No Limit
4	*	2412.000	76.14	31.79	107.93	54.00	53.93	AVG	No Limit

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

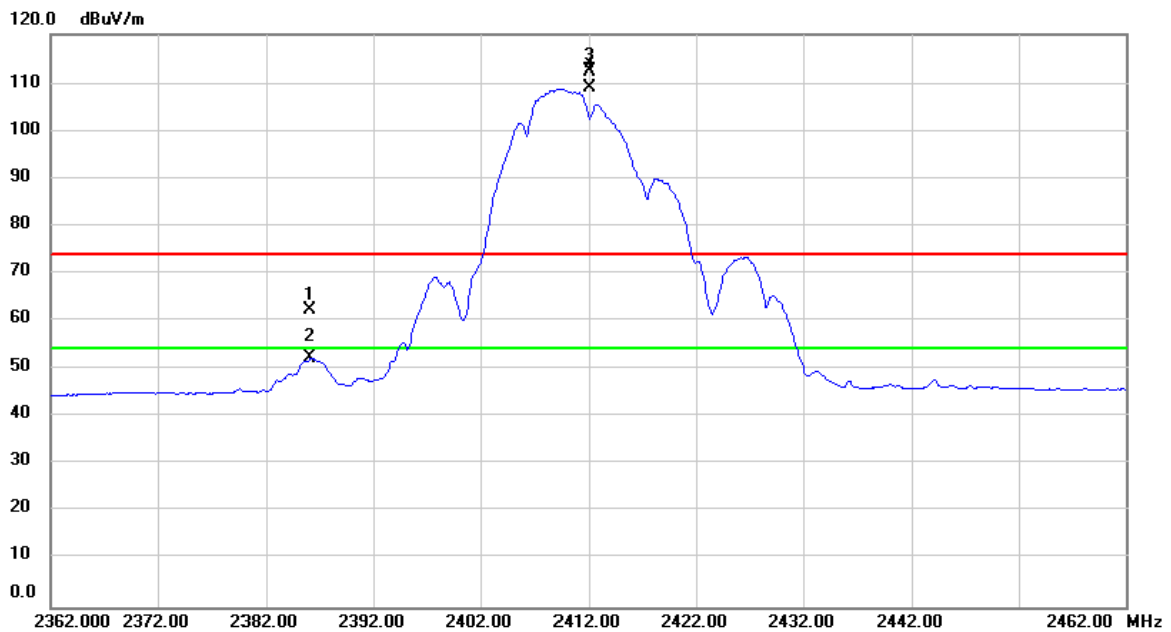
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	67.04	-10.48	56.56	74.00	-17.44	peak	
2	*	4824.000	64.00	-10.48	53.52	54.00	-0.48	AVG	
3		9648.000	55.44	2.16	57.60	74.00	-16.40	peak	
4		9648.000	41.59	2.16	43.75	54.00	-10.25	AVG	

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

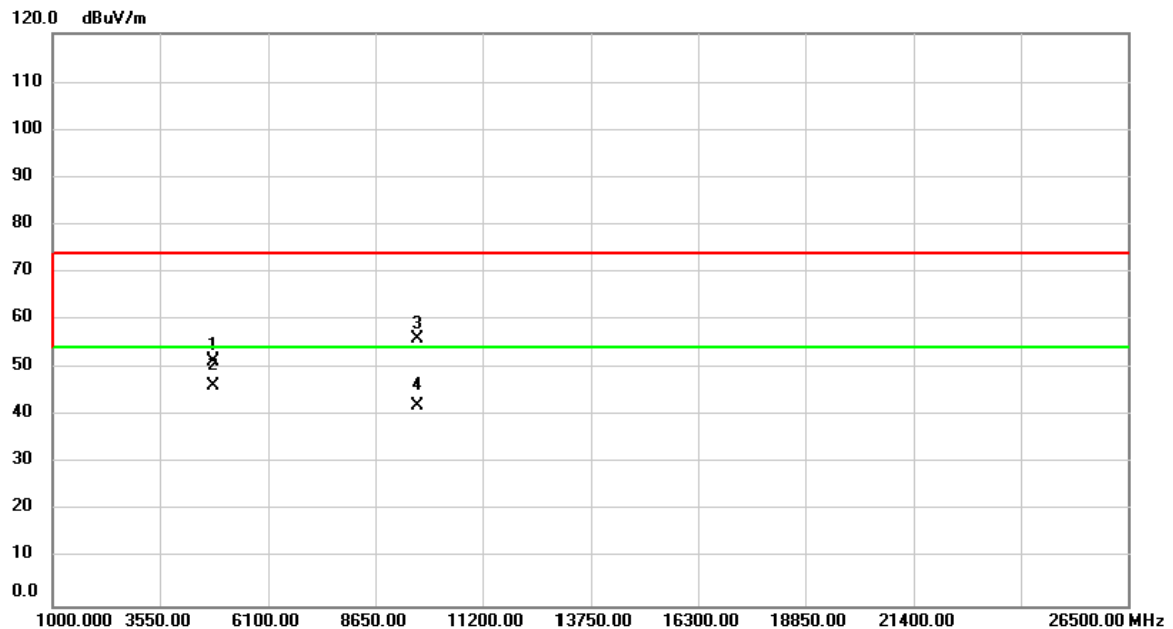
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.080	30.45	31.69	62.14	74.00	-11.86	peak	
2		2386.080	20.74	31.69	52.43	54.00	-1.57	AVG	
3	X	2412.000	80.52	31.79	112.31	74.00	38.31	peak	No Limit
4	*	2412.000	77.11	31.79	108.90	54.00	54.90	AVG	No Limit

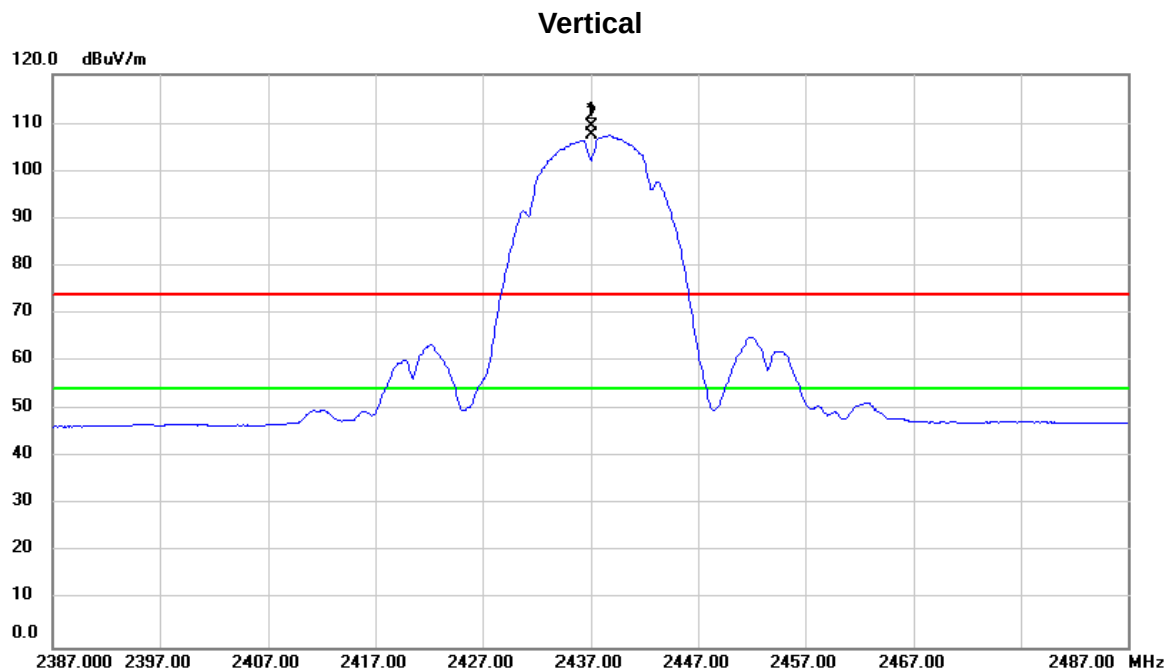
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	62.03	-10.48	51.55	74.00	-22.45	peak	
2	*	4824.000	56.75	-10.48	46.27	54.00	-7.73	AVG	
3		9648.000	53.92	2.16	56.08	74.00	-17.92	peak	
4		9648.000	40.03	2.16	42.19	54.00	-11.81	AVG	

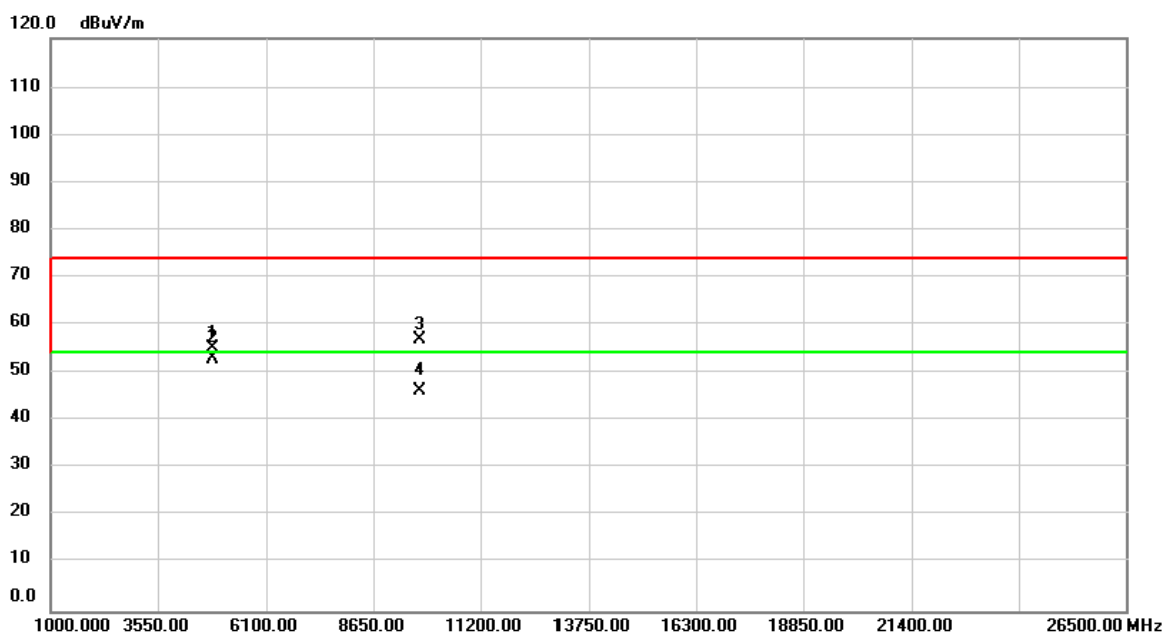
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	77.47	31.88	109.35	74.00	35.35	peak	No Limit
2	*	2437.000	75.54	31.88	107.42	54.00	53.42	AVG	No Limit

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

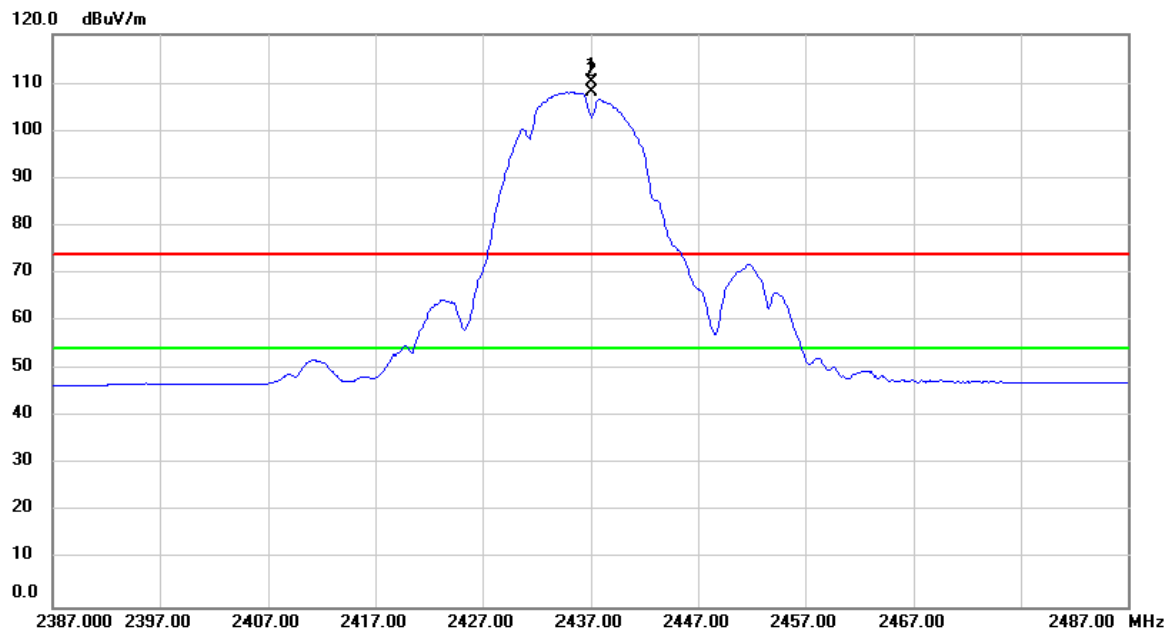
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	65.38	-10.40	54.98	74.00	-19.02	peak	
2	*	4874.000	63.25	-10.40	52.85	54.00	-1.15	AVG	
3		9748.000	54.50	2.47	56.97	74.00	-17.03	peak	
4		9748.000	43.95	2.47	46.42	54.00	-7.58	AVG	

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

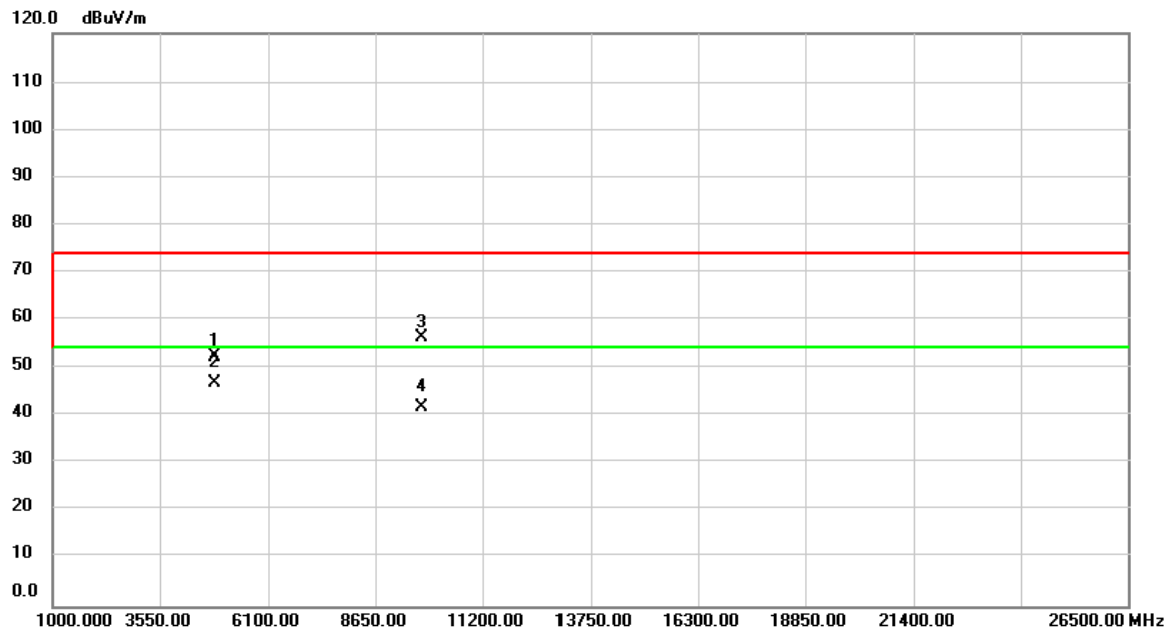
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.000	78.51	31.88	110.39	74.00	36.39	peak	No Limit
2	*	2437.000	76.35	31.88	108.23	54.00	54.23	AVG	No Limit

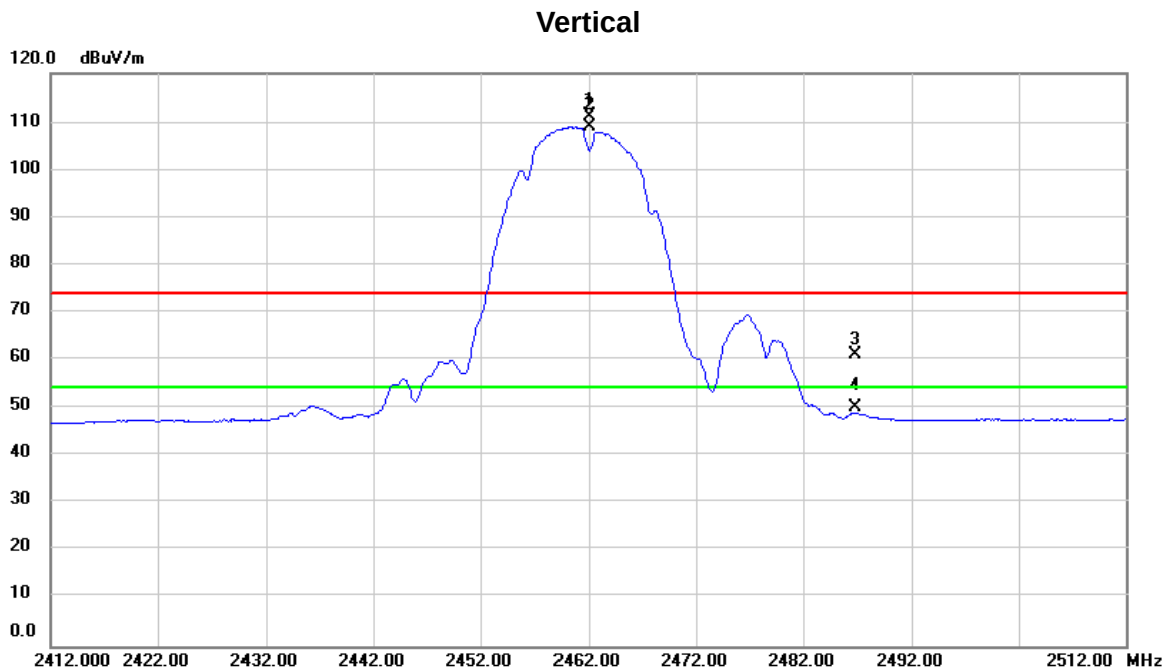
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	62.71	-10.40	52.31	74.00	-21.69	peak	
2	*	4874.000	57.35	-10.40	46.95	54.00	-7.05	AVG	
3		9748.000	53.64	2.47	56.11	74.00	-17.89	peak	
4		9748.000	39.46	2.47	41.93	54.00	-12.07	AVG	

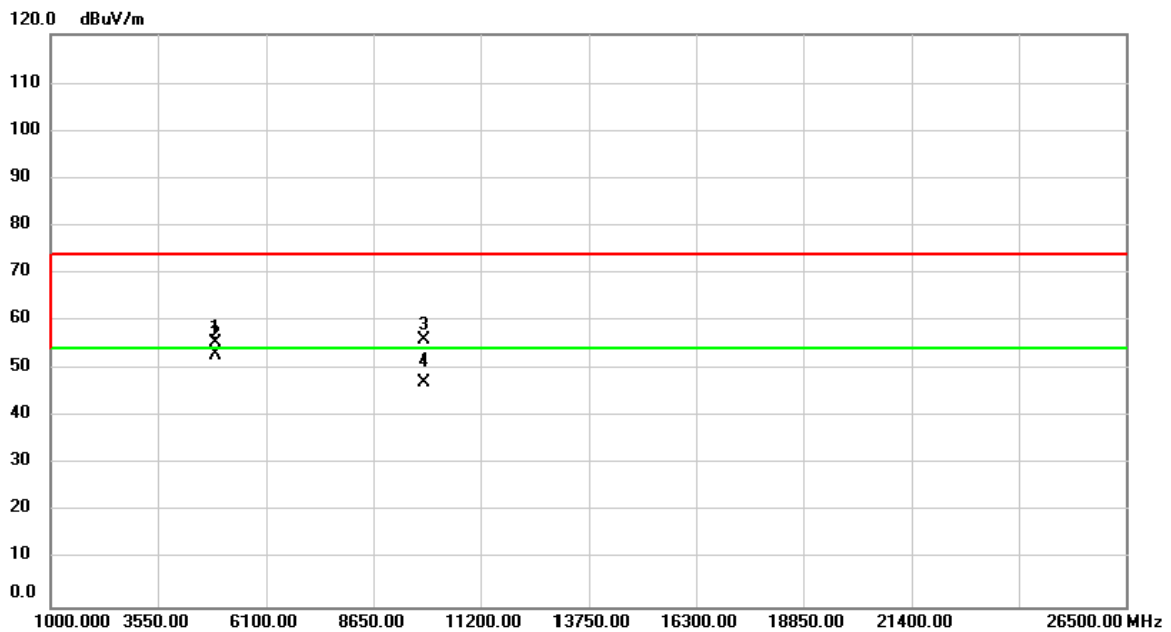
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	79.05	31.98	111.03	74.00	37.03	peak	No Limit
2	*	2462.000	77.14	31.98	109.12	54.00	55.12	AVG	No Limit
3		2486.800	28.91	32.08	60.99	74.00	-13.01	peak	
4		2486.800	18.15	32.08	50.23	54.00	-3.77	AVG	

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

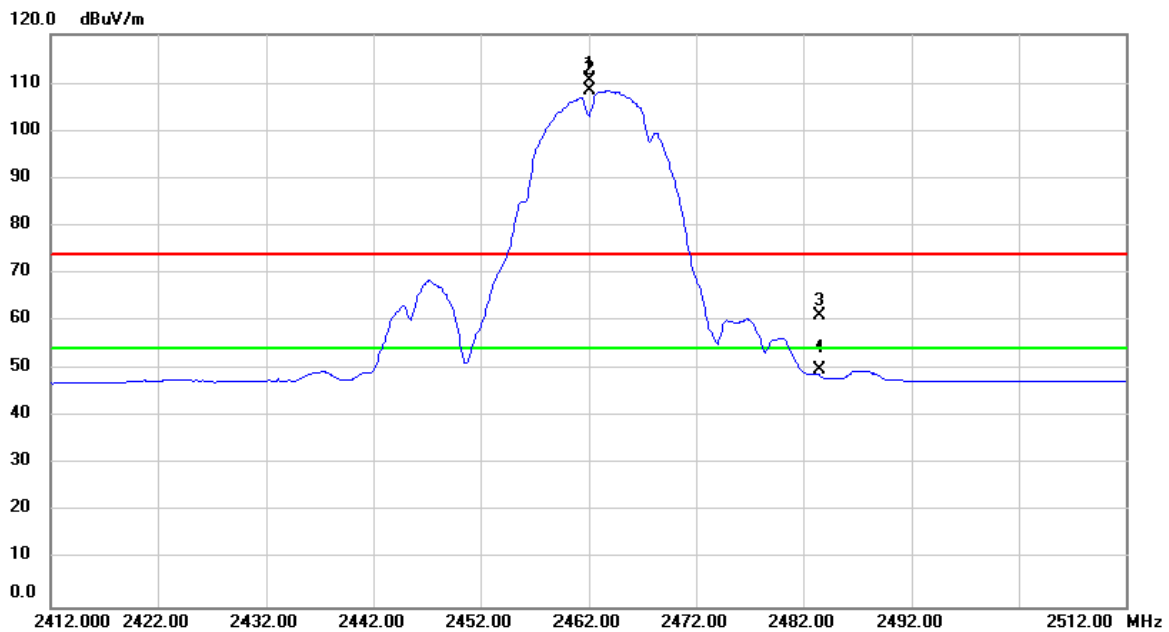
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	65.62	-10.32	55.30	74.00	-18.70	peak	
2	*	4924.000	63.30	-10.32	52.98	54.00	-1.02	AVG	
3		9848.000	53.16	2.77	55.93	74.00	-18.07	peak	
4		9848.000	44.60	2.77	47.37	54.00	-6.63	AVG	

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

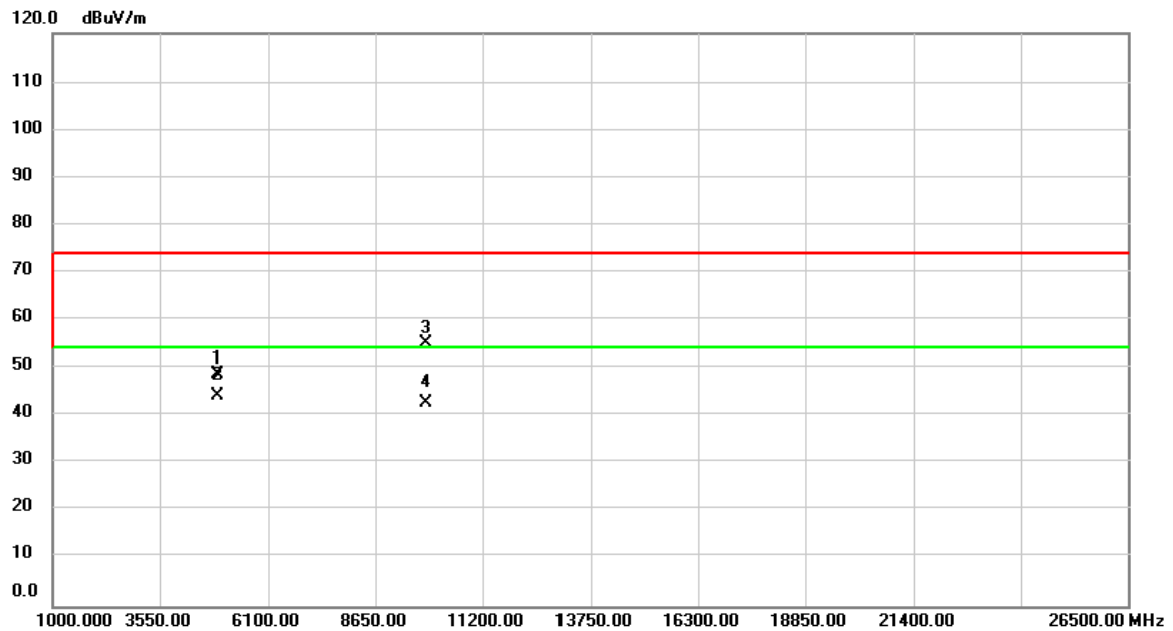
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	78.56	31.98	110.54	74.00	36.54	peak	No Limit
2	*	2462.000	76.48	31.98	108.46	54.00	54.46	AVG	No Limit
3		2483.582	29.00	32.06	61.06	74.00	-12.94	peak	
4		2483.582	17.82	32.06	49.88	54.00	-4.12	AVG	

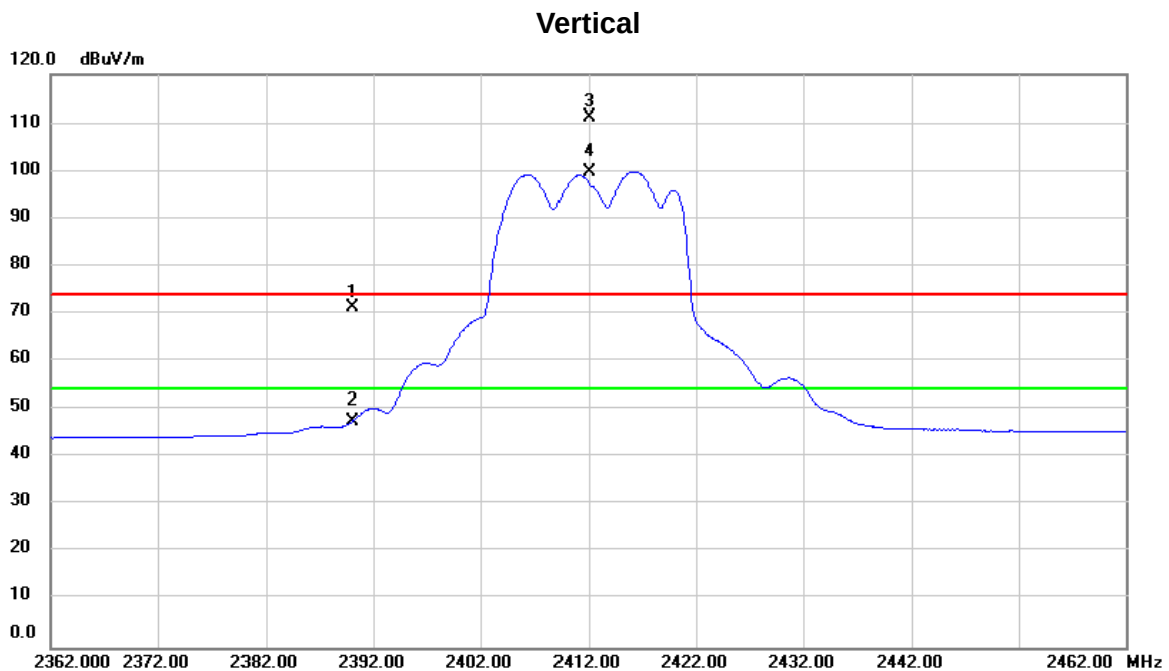
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	59.09	-10.32	48.77	74.00	-25.23	peak	
2	*	4924.000	54.45	-10.32	44.13	54.00	-9.87	AVG	
3		9848.000	52.31	2.77	55.08	74.00	-18.92	peak	
4		9848.000	40.08	2.77	42.85	54.00	-11.15	AVG	

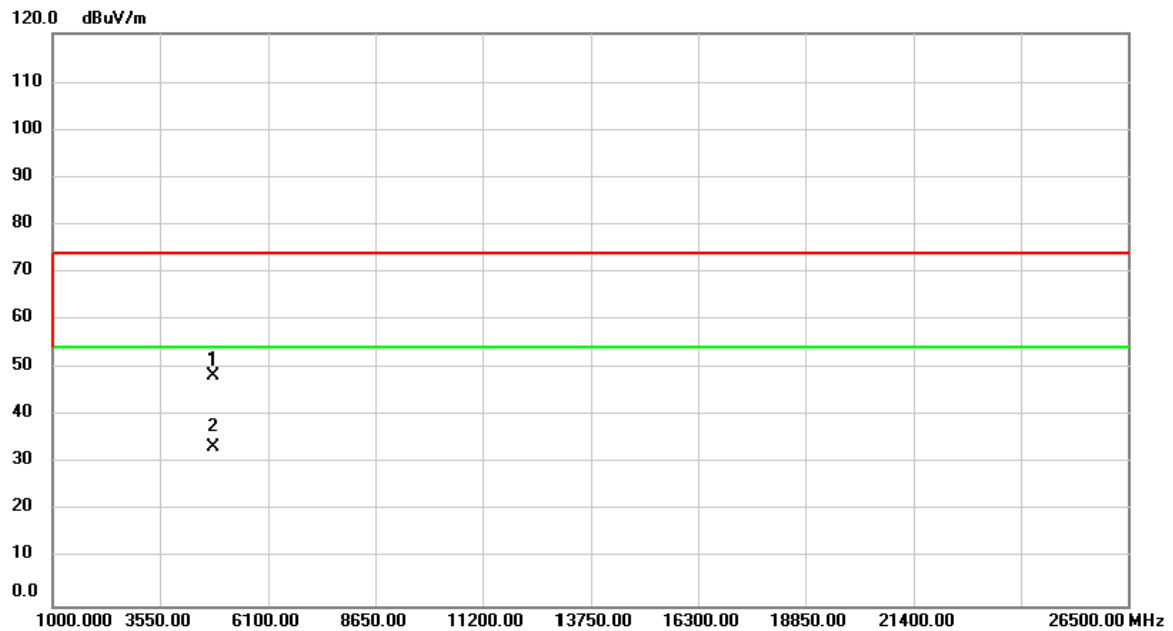
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	39.51	31.70	71.21	74.00	-2.79	peak	
2		2390.000	15.98	31.70	47.68	54.00	-6.32	AVG	
3	X	2412.000	79.26	31.79	111.05	74.00	37.05	peak	No Limit
4	*	2412.000	68.09	31.79	99.88	54.00	45.88	AVG	No Limit

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

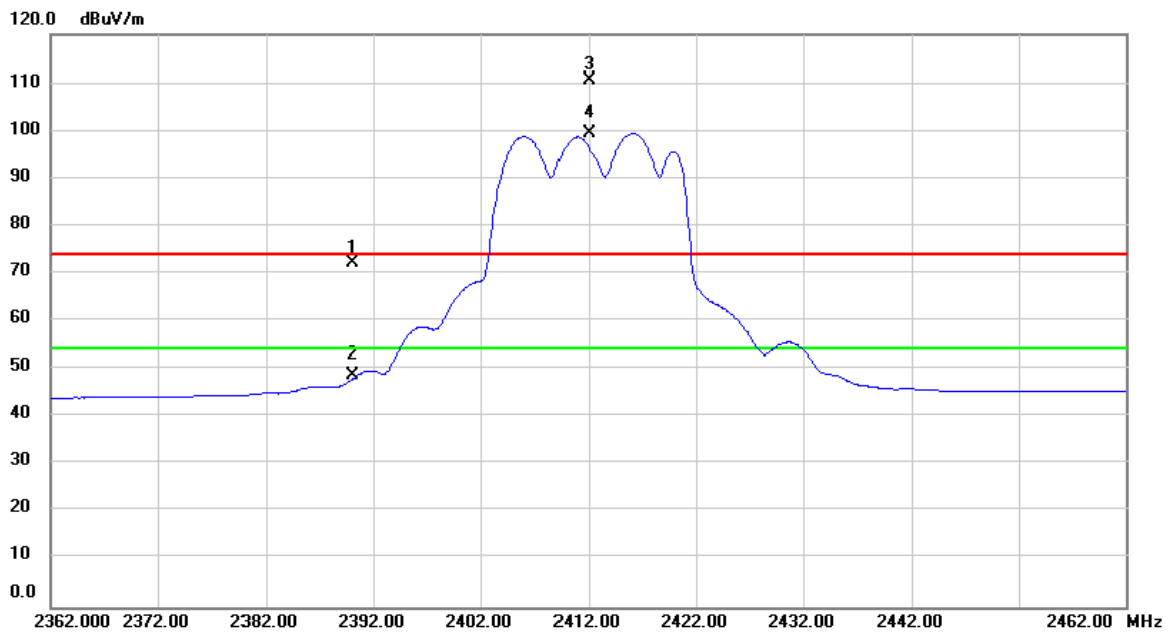
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	58.89	-10.48	48.41	74.00	-25.59	peak	
2	*	4824.000	44.05	-10.48	33.57	54.00	-20.43	AVG	

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

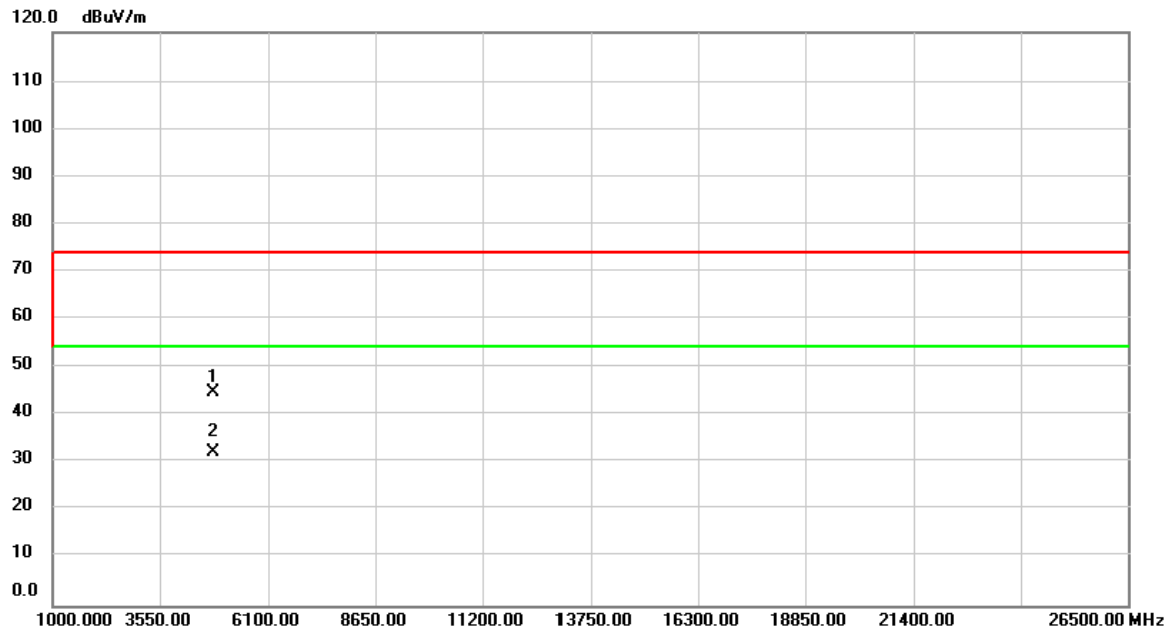
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	40.57	31.70	72.27	74.00	-1.73	peak	
2		2390.000	17.12	31.70	48.82	54.00	-5.18	AVG	
3	X	2412.000	78.82	31.79	110.61	74.00	36.61	peak	No Limit
4	*	2412.000	67.61	31.79	99.40	54.00	45.40	AVG	No Limit

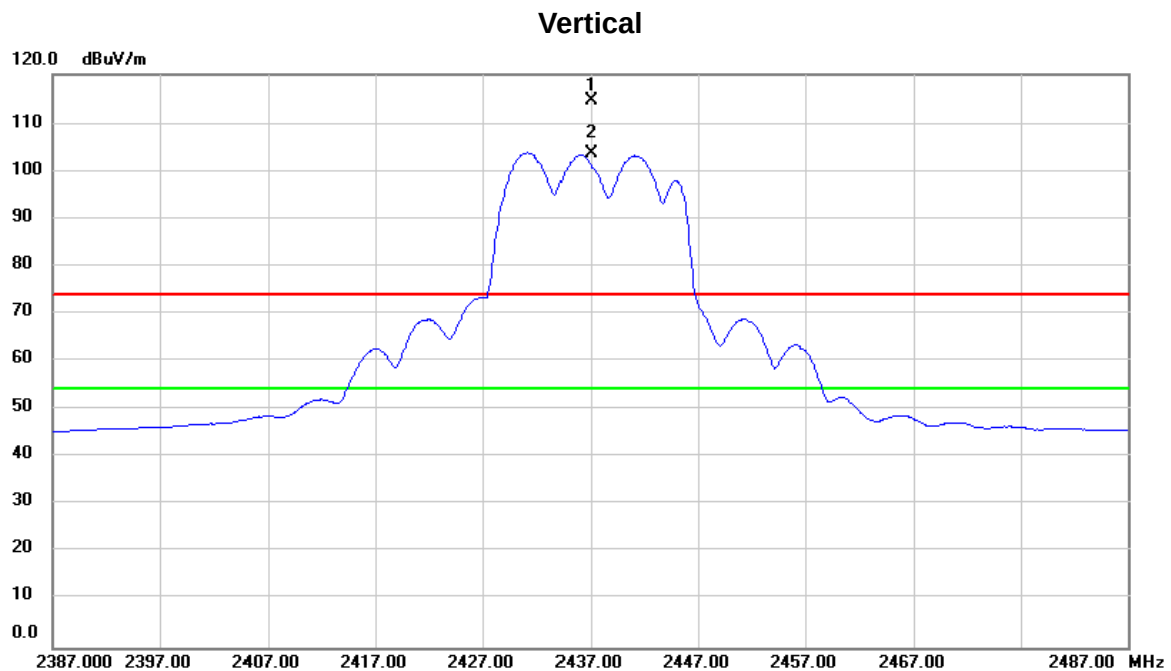
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.34	-10.48	44.86	74.00	-29.14	peak	
2	*	4824.000	42.85	-10.48	32.37	54.00	-21.63	AVG	

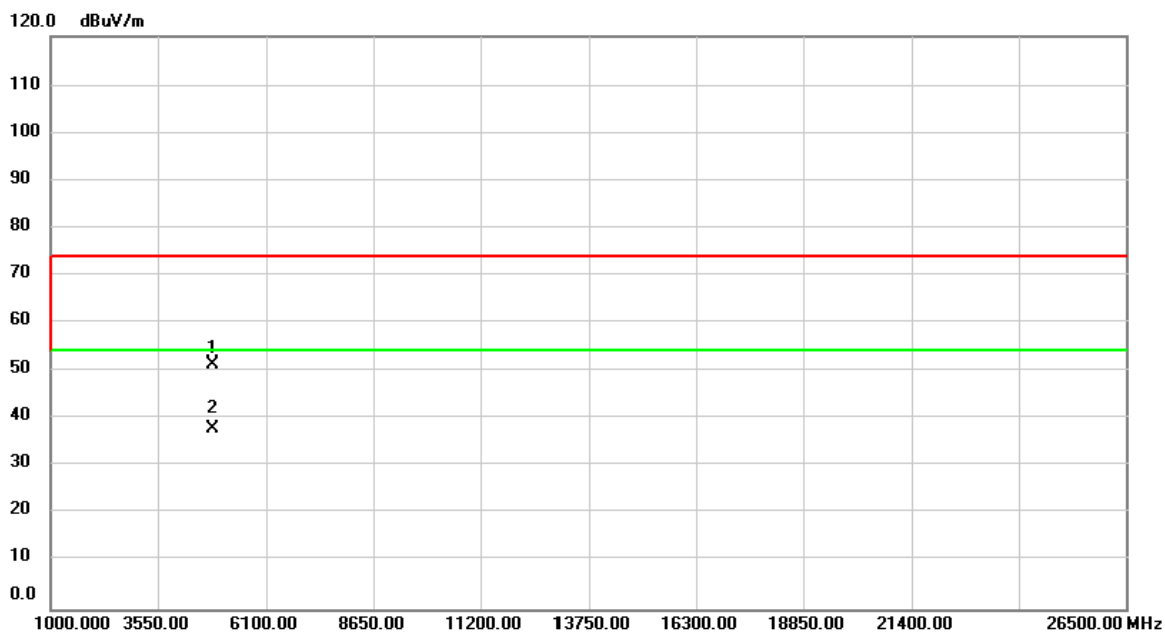
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	82.51	31.88	114.39	74.00	40.39	peak	No Limit
2	*	2437.000	71.92	31.88	103.80	54.00	49.80	AVG	No Limit

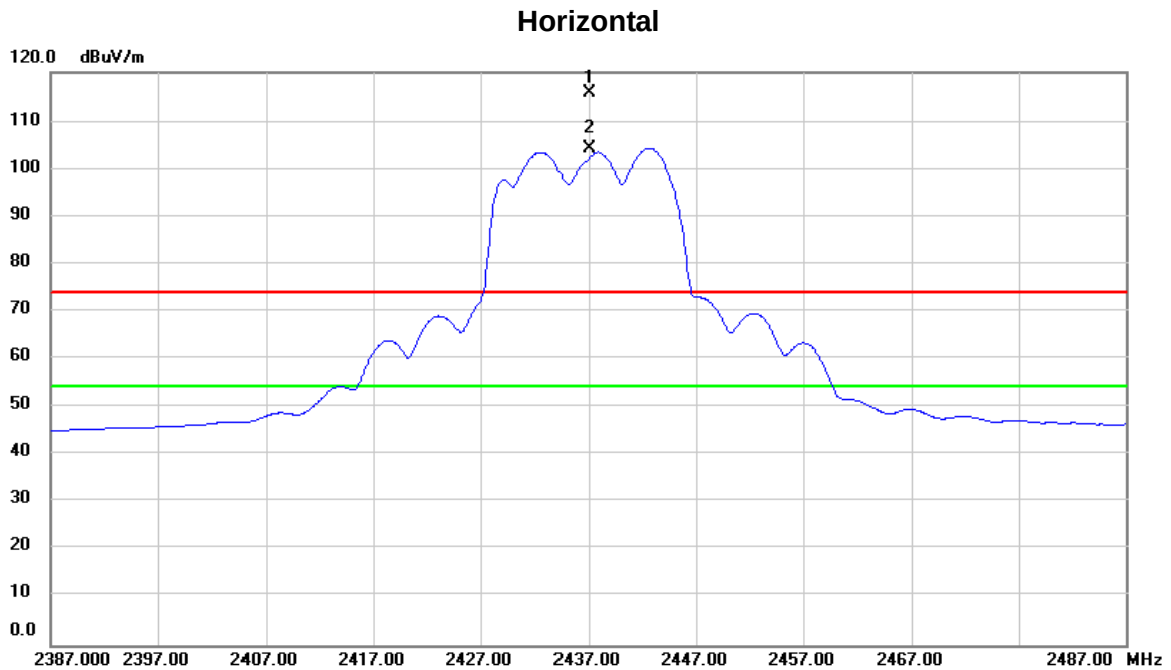
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4874.000	61.86	-10.40	51.46	74.00	-22.54	peak
2	*	4874.000	48.40	-10.40	38.00	54.00	-16.00	AVG

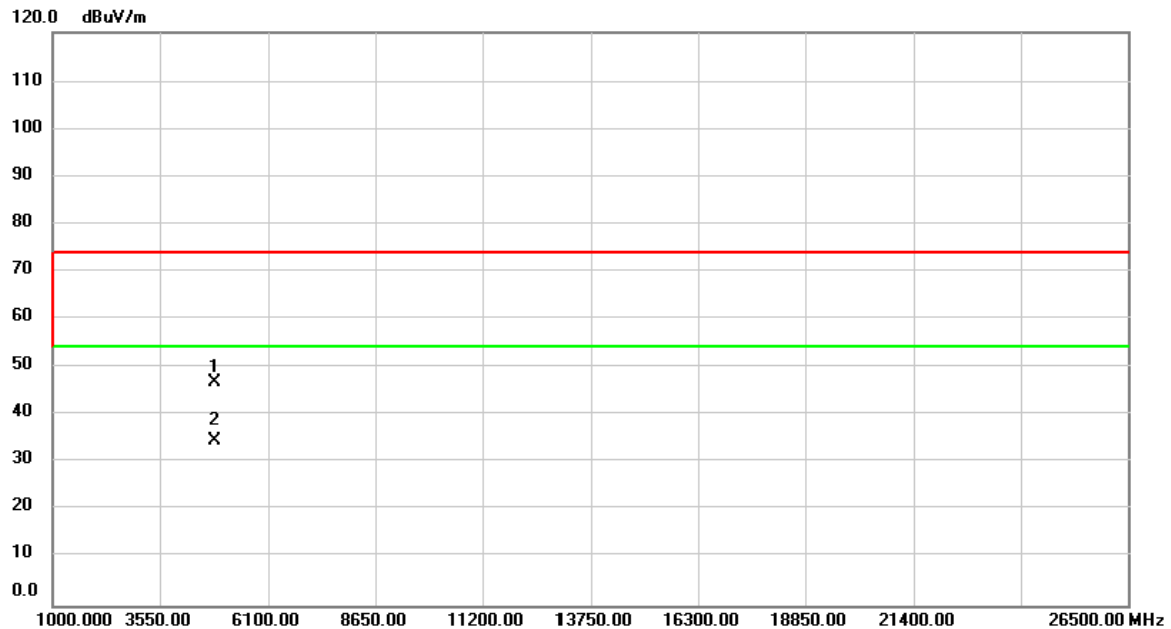
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	83.84	31.88	115.72	74.00	41.72	peak	No Limit
2	*	2437.000	72.47	31.88	104.35	54.00	50.35	AVG	No Limit

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

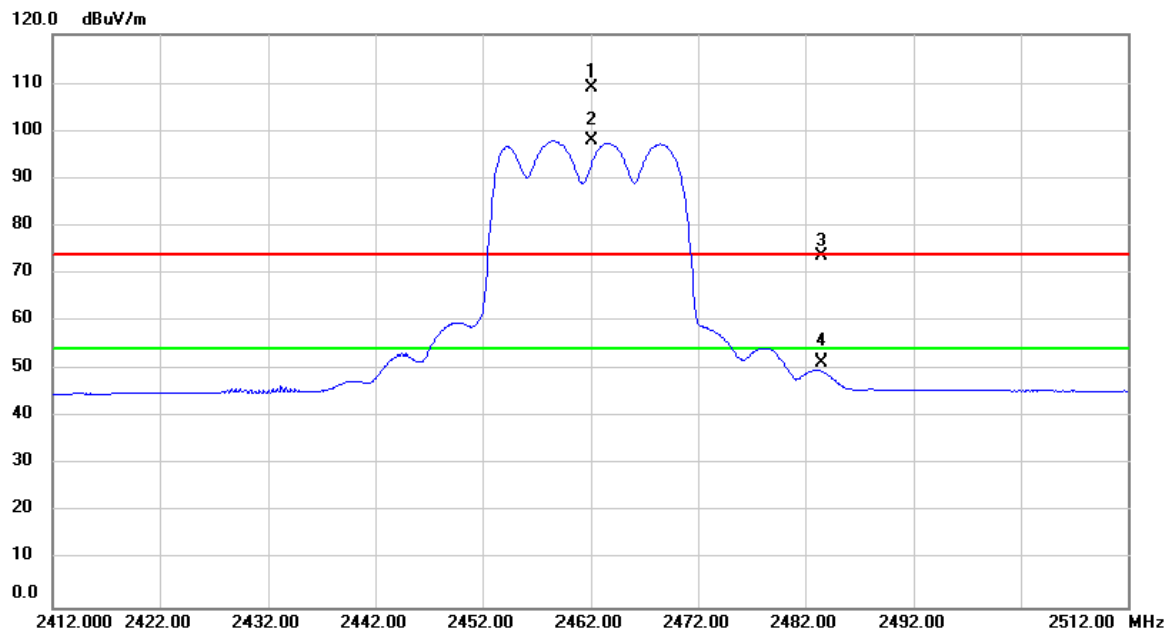
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	57.30	-10.40	46.90	74.00	-27.10	peak	
2	*	4874.000	45.17	-10.40	34.77	54.00	-19.23	AVG	

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

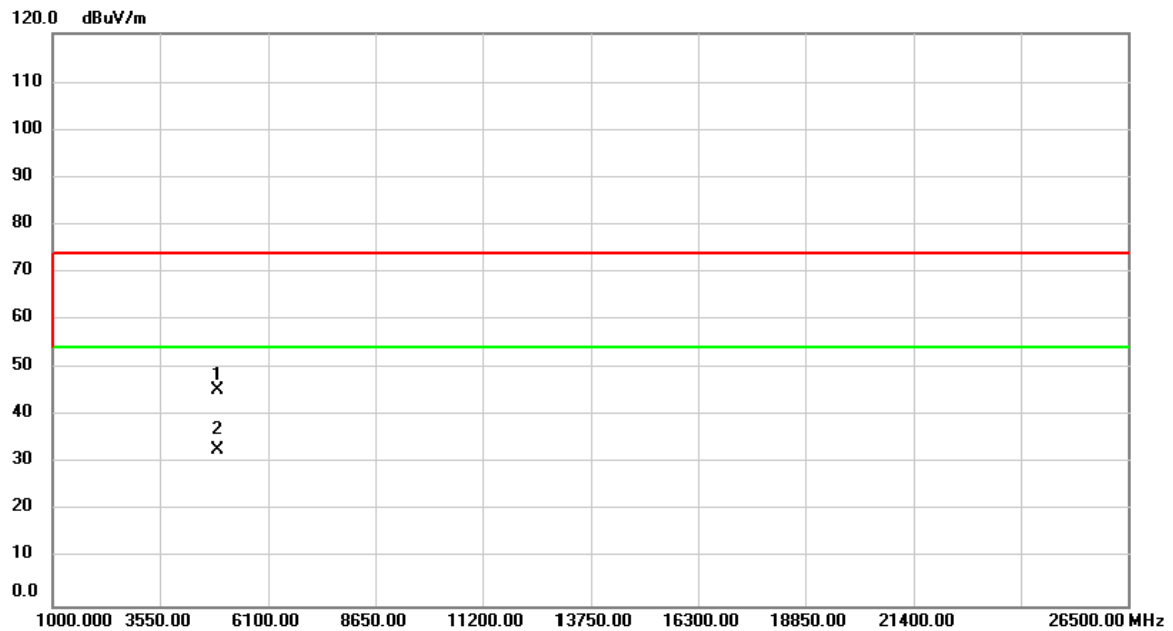
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	76.93	31.98	108.91	74.00	34.91	peak	No Limit
2	*	2462.000	65.85	31.98	97.83	54.00	43.83	AVG	No Limit
3		2483.500	41.47	32.06	73.53	74.00	-0.47	peak	
4		2483.500	19.40	32.06	51.46	54.00	-2.54	AVG	

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

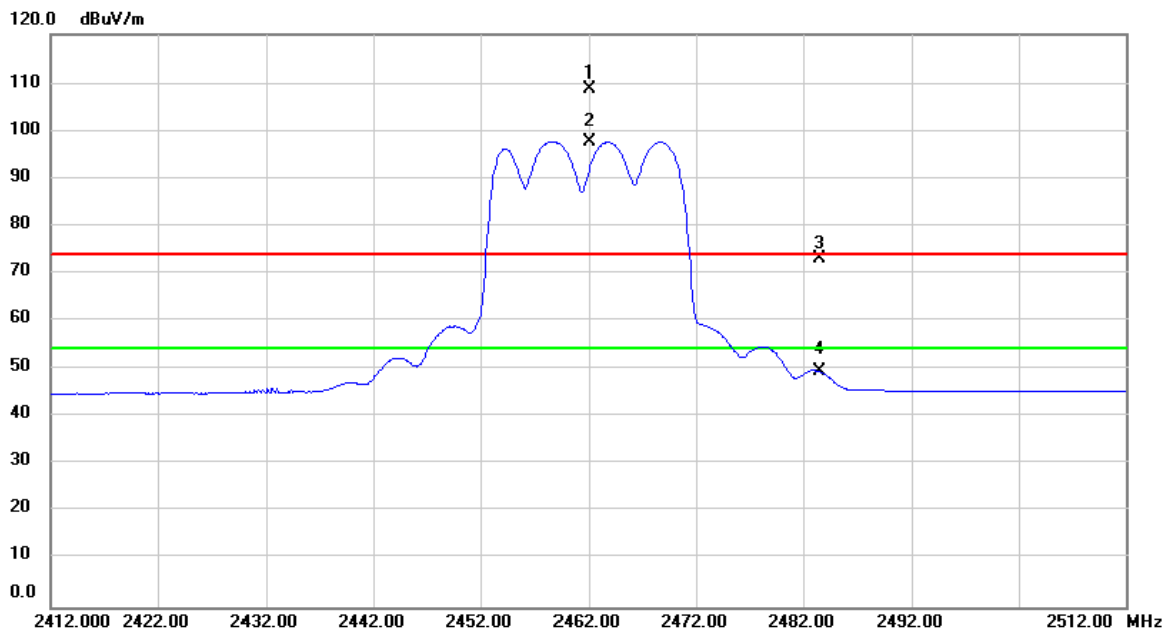
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	55.65	-10.32	45.33	74.00	-28.67	peak	
2	*	4924.000	43.09	-10.32	32.77	54.00	-21.23	AVG	

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

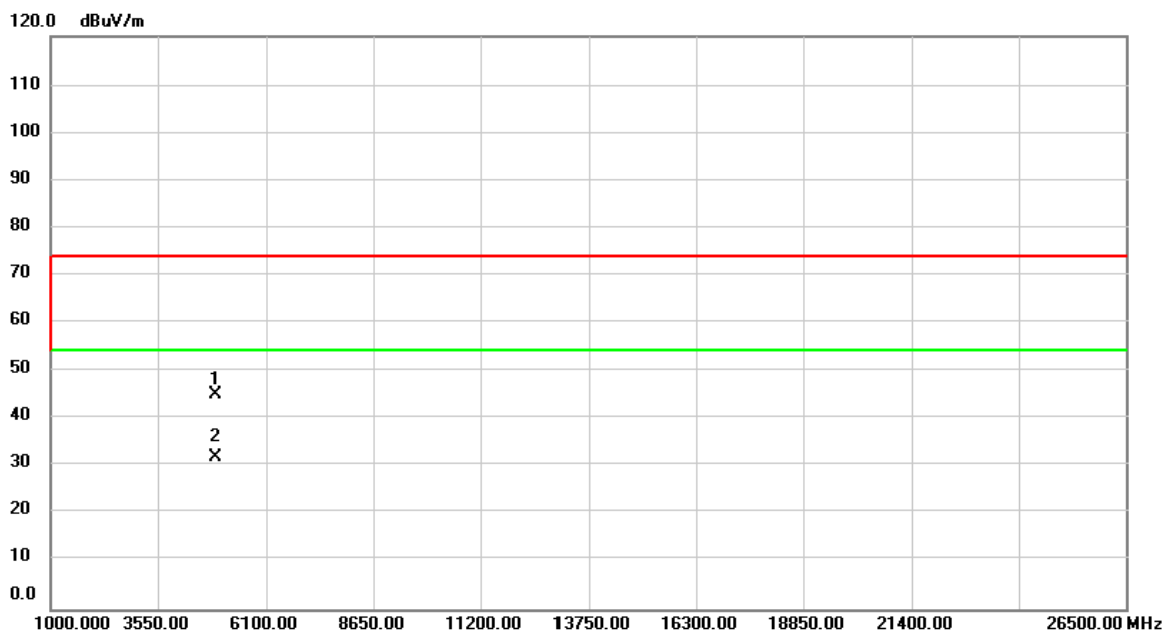
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	76.88	31.98	108.86	74.00	34.86	peak	No Limit
2	*	2462.000	65.82	31.98	97.80	54.00	43.80	AVG	No Limit
3		2483.500	40.88	32.06	72.94	74.00	-1.06	peak	
4		2483.500	17.62	32.06	49.68	54.00	-4.32	AVG	

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

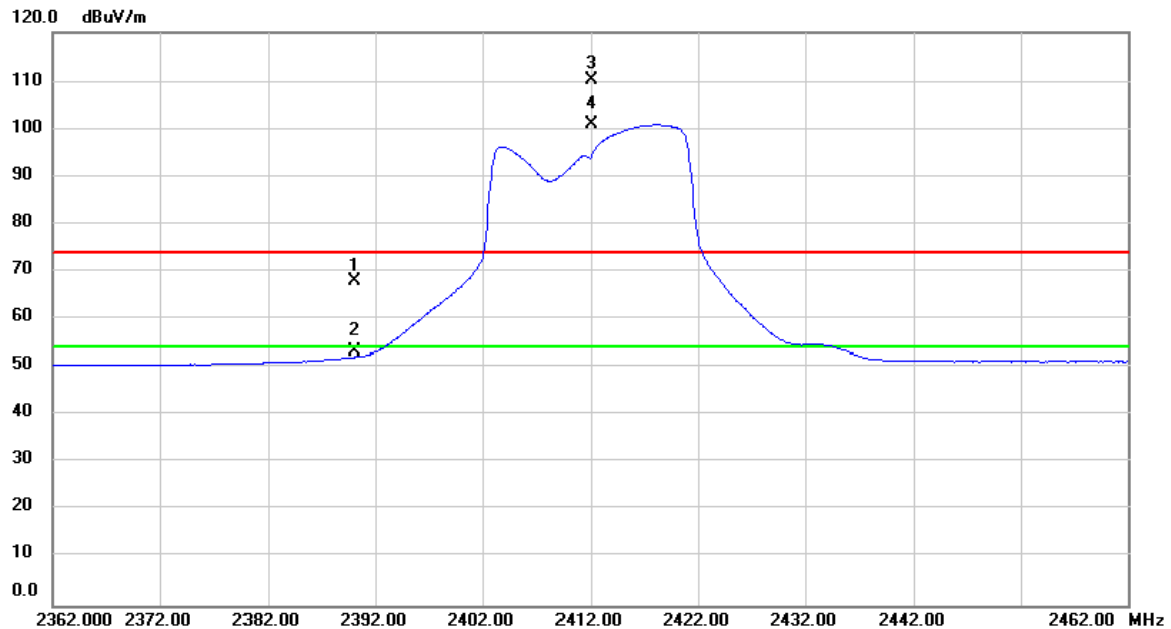
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4924.000	55.37	-10.32	45.05	74.00	-28.95	peak
2	*	4924.000	42.17	-10.32	31.85	54.00	-22.15	AVG

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

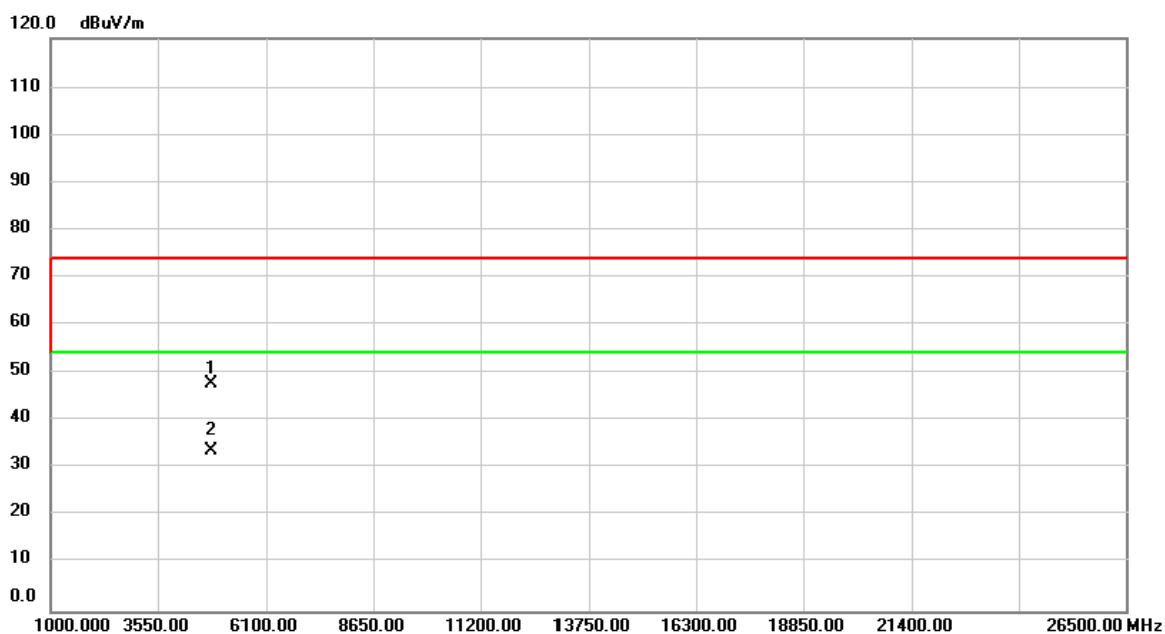
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	36.22	31.70	67.92	74.00	-6.08	peak	
2		2390.000	21.43	31.70	53.13	54.00	-0.87	AVG	
3	X	2412.000	78.38	31.79	110.17	74.00	36.17	peak	No Limit
4	*	2412.000	69.04	31.79	100.83	54.00	46.83	AVG	No Limit

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

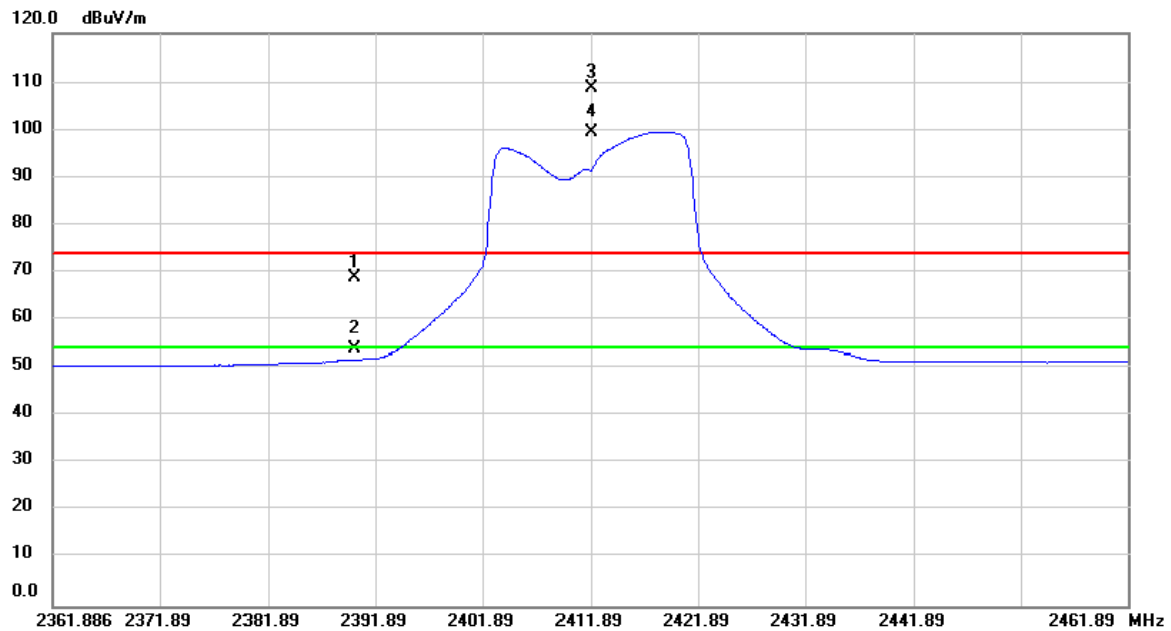
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	58.41	-10.48	47.93	74.00	-26.07	peak	
2	*	4824.000	44.10	-10.48	33.62	54.00	-20.38	AVG	

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

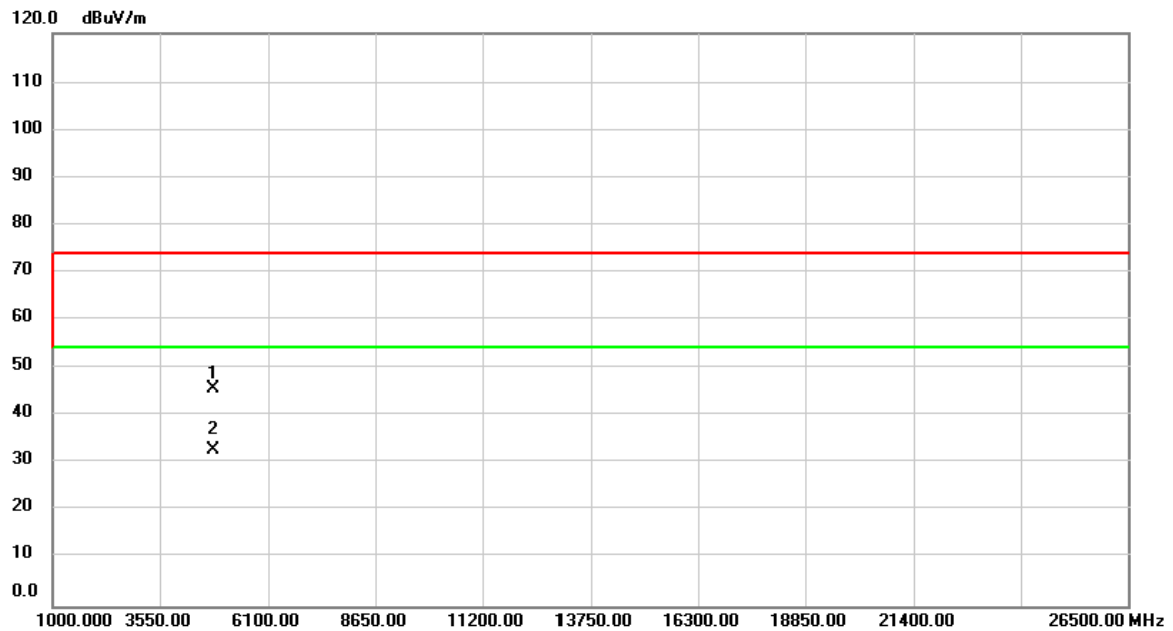
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	37.07	31.70	68.77	74.00	-5.23	peak	
2		2390.000	22.21	31.70	53.91	54.00	-0.09	AVG	
3	X	2412.000	76.98	31.79	108.77	74.00	34.77	peak	No Limit
4	*	2412.000	67.77	31.79	99.56	54.00	45.56	AVG	No Limit

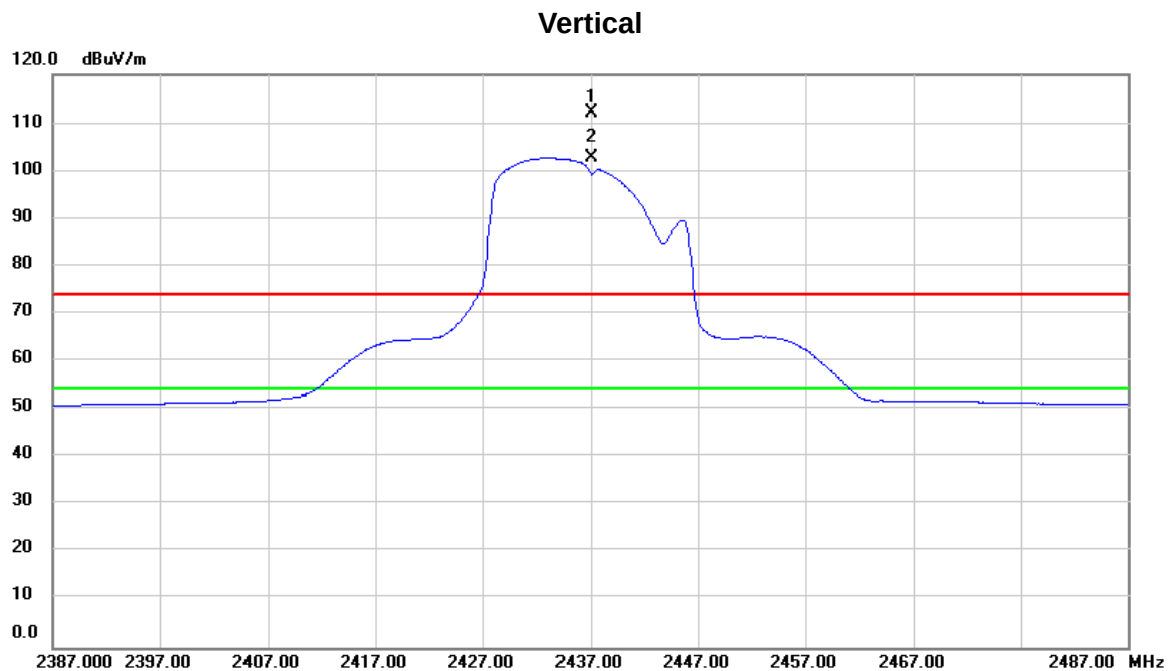
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	56.16	-10.48	45.68	74.00	-28.32	peak	
2	*	4824.000	43.19	-10.48	32.71	54.00	-21.29	AVG	

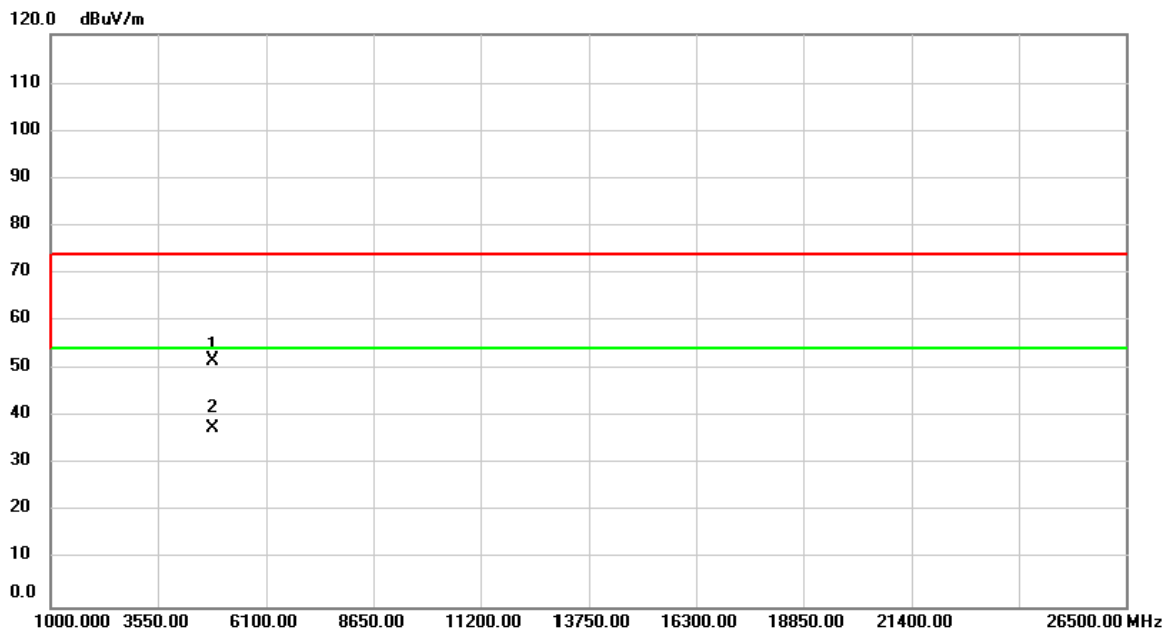
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	80.03	31.88	111.91	74.00	37.91	peak	No Limit
2	*	2437.000	70.81	31.88	102.69	54.00	48.69	AVG	No Limit

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

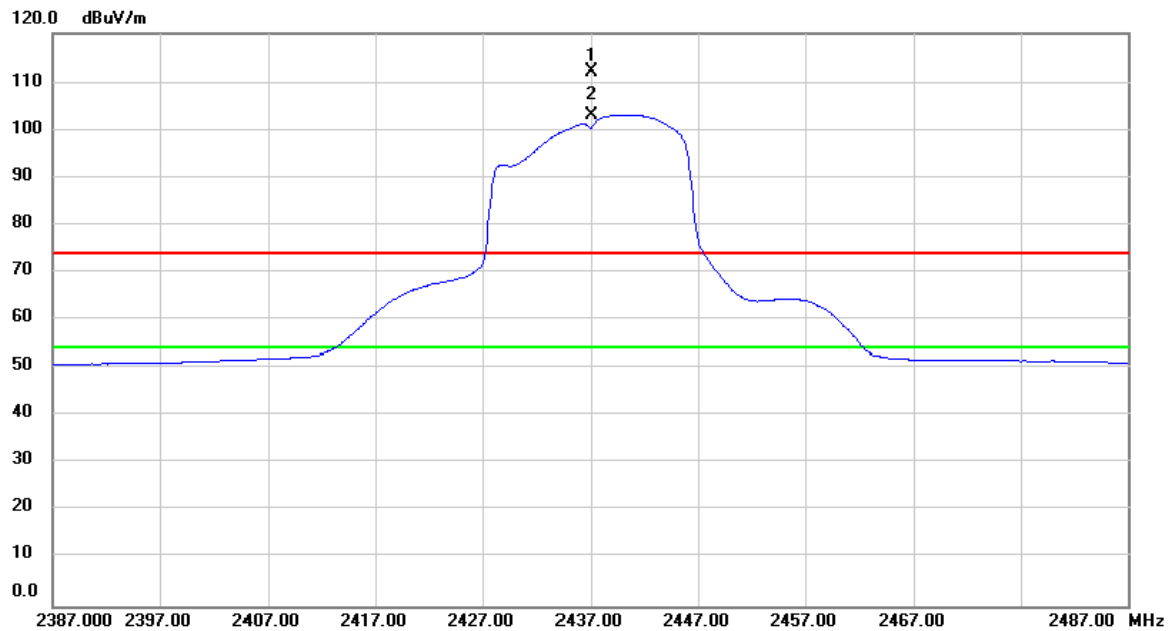
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	62.04	-10.40	51.64	74.00	-22.36	peak	
2	*	4874.000	48.01	-10.40	37.61	54.00	-16.39	AVG	

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

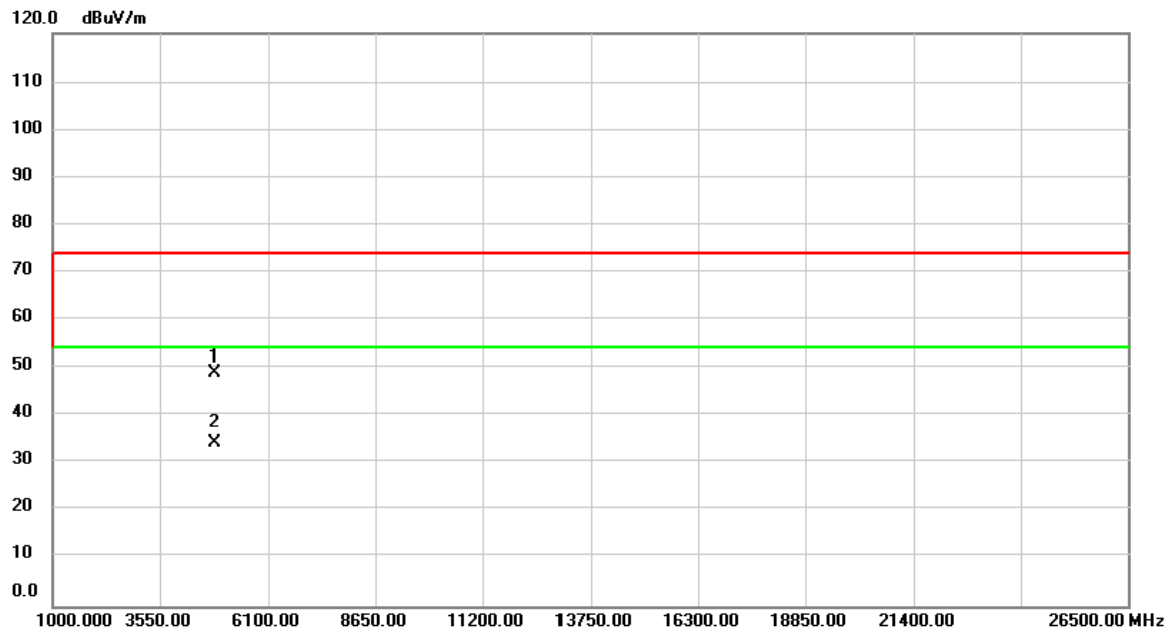
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	80.08	31.88	111.96	74.00	37.96	peak	No Limit
2	*	2437.000	71.30	31.88	103.18	54.00	49.18	AVG	No Limit

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

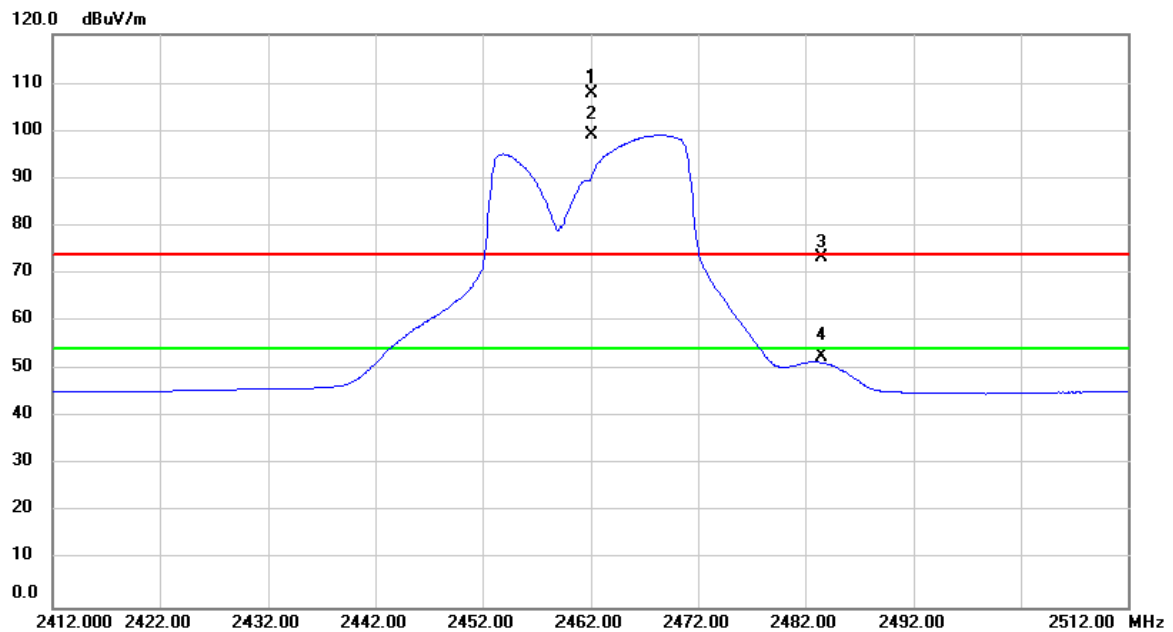
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	59.59	-10.40	49.19	74.00	-24.81	peak	
2	*	4874.000	44.60	-10.40	34.20	54.00	-19.80	AVG	

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

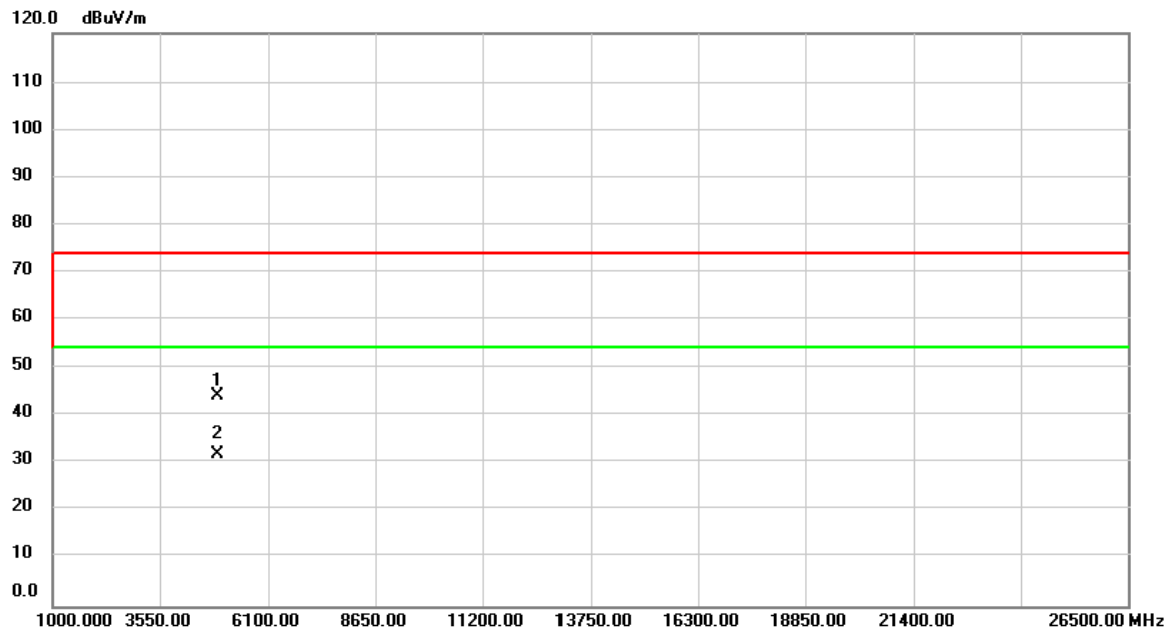
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	75.90	31.98	107.88	74.00	33.88	peak	No Limit
2	*	2462.000	67.09	31.98	99.07	54.00	45.07	AVG	No Limit
3		2483.500	41.24	32.06	73.30	74.00	-0.70	peak	
4		2483.500	20.59	32.06	52.65	54.00	-1.35	AVG	

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

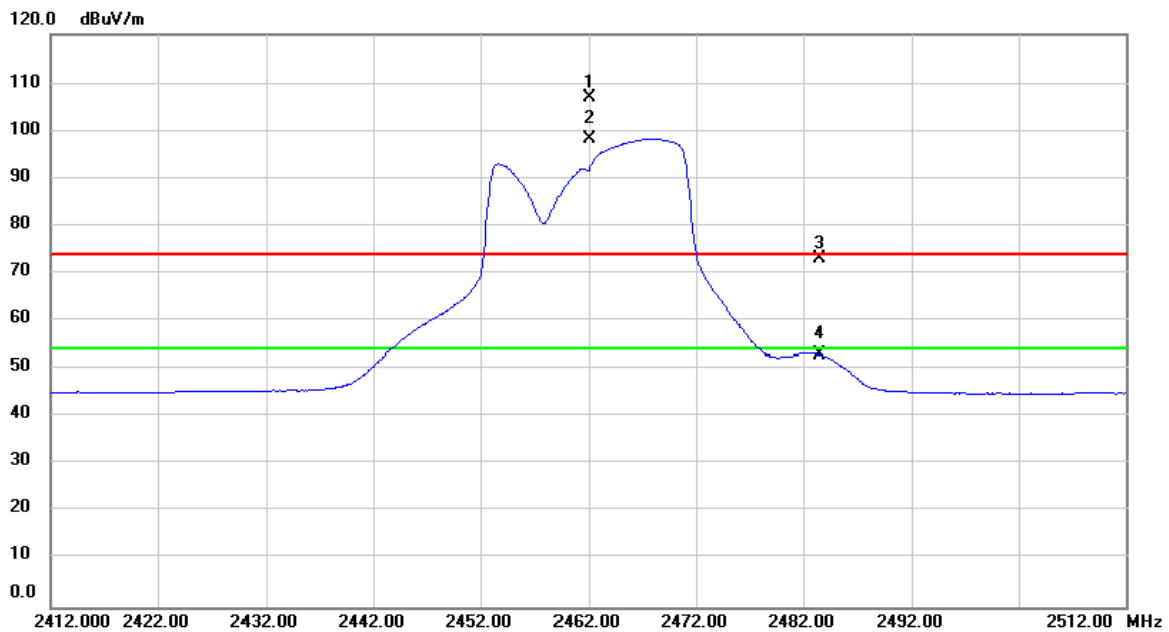
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	54.49	-10.32	44.17	74.00	-29.83	peak	
2	*	4924.000	42.38	-10.32	32.06	54.00	-21.94	AVG	

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

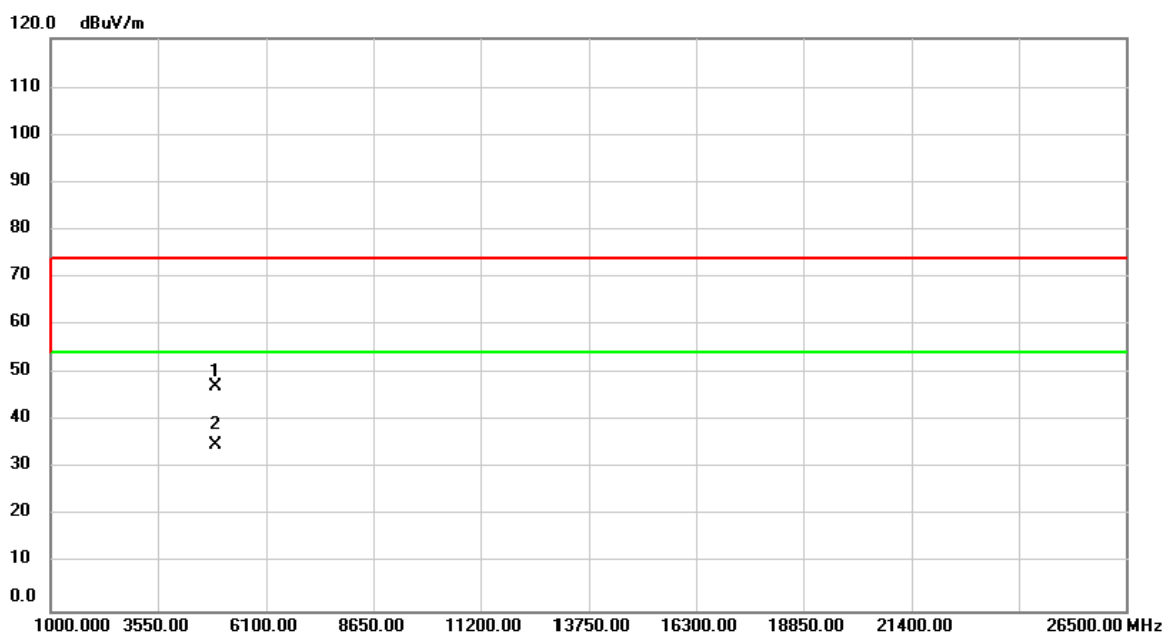
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	75.07	31.98	107.05	74.00	33.05	peak	No Limit
2	*	2462.000	66.25	31.98	98.23	54.00	44.23	AVG	No Limit
3		2483.500	41.13	32.06	73.19	74.00	-0.81	peak	
4		2483.500	20.90	32.06	52.96	54.00	-1.04	AVG	

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

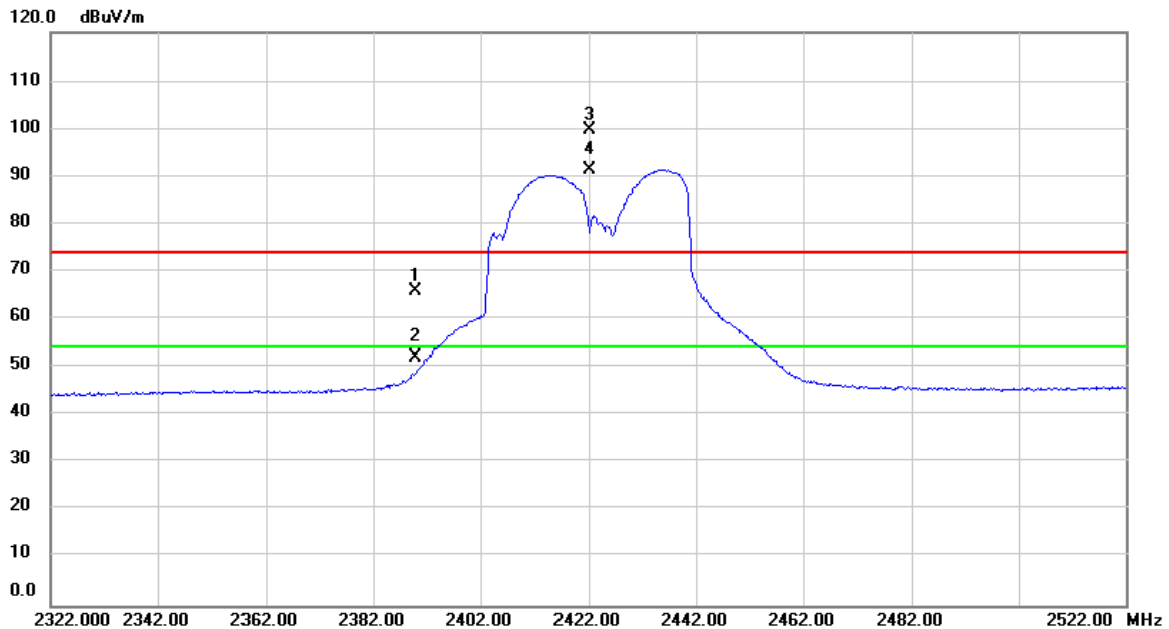
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	57.59	-10.32	47.27	74.00	-26.73	peak	
2	*	4924.000	45.24	-10.32	34.92	54.00	-19.08	AVG	

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

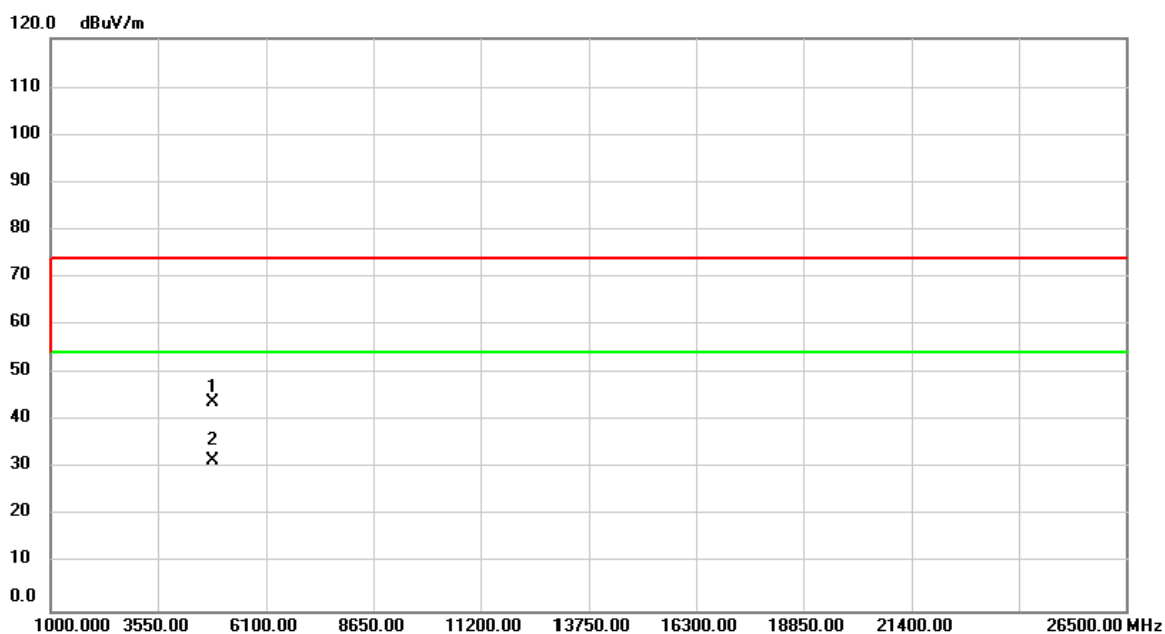
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.932	34.11	31.70	65.81	74.00	-8.19	peak	
2		2389.932	20.38	31.70	52.08	54.00	-1.92	AVG	
3	X	2422.000	67.90	31.83	99.73	74.00	25.73	peak	No Limit
4	*	2422.000	59.64	31.83	91.47	54.00	37.47	AVG	No Limit

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

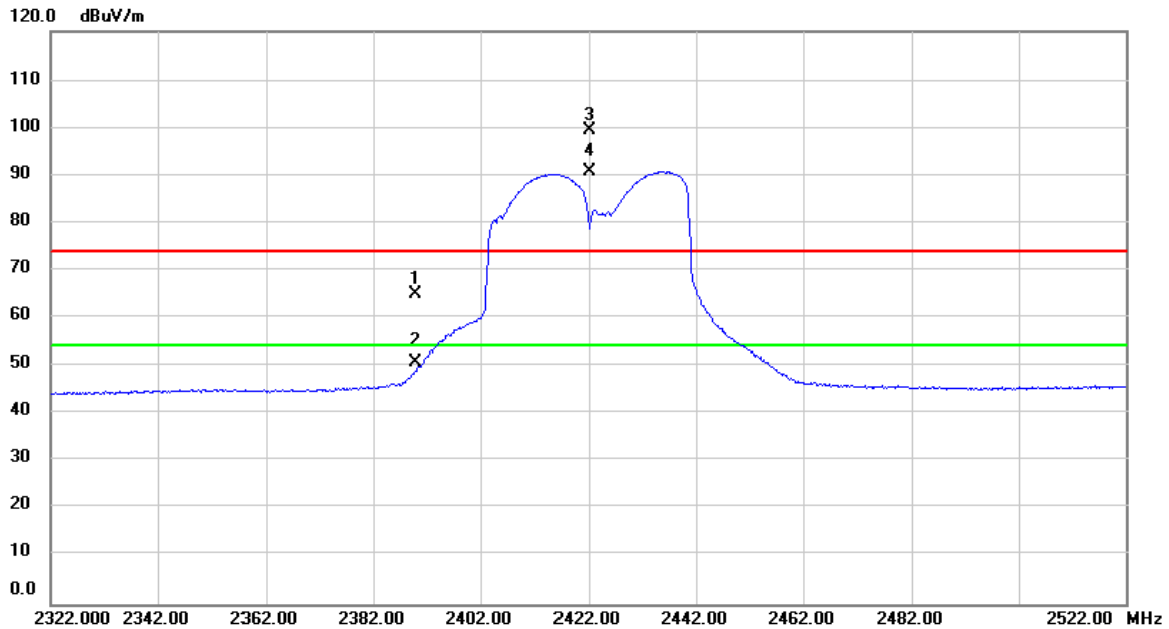
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	54.84	-10.93	43.91	74.00	-30.09	peak	
2	*	4844.000	42.73	-10.93	31.80	54.00	-22.20	AVG	

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

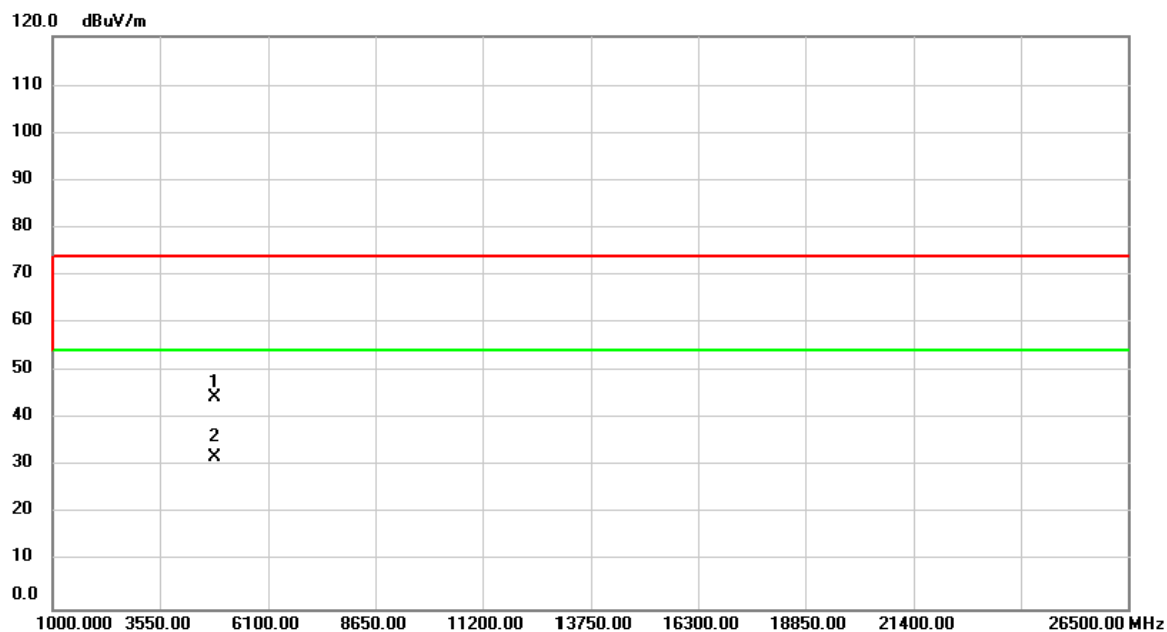
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.932	33.23	31.70	64.93	74.00	-9.07	peak	
2		2389.932	19.04	31.70	50.74	54.00	-3.26	AVG	
3	X	2422.000	67.48	31.83	99.31	74.00	25.31	peak	No Limit
4	*	2422.000	58.84	31.83	90.67	54.00	36.67	AVG	No Limit

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

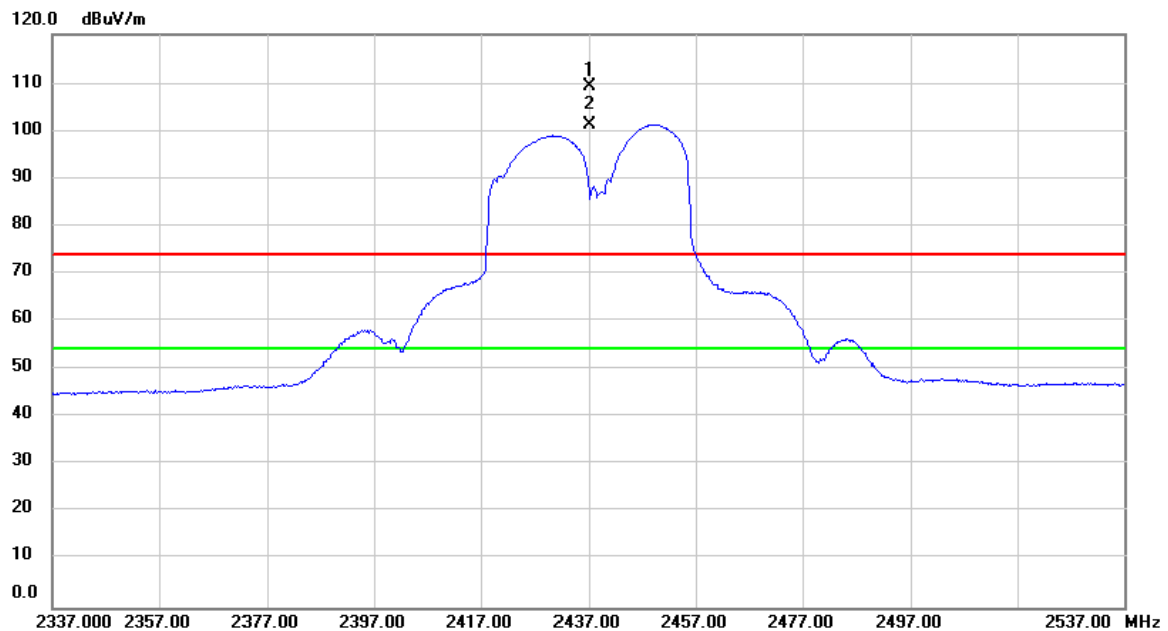
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	55.38	-10.93	44.45	74.00	-29.55	peak	
2	*	4844.000	42.90	-10.93	31.97	54.00	-22.03	AVG	

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

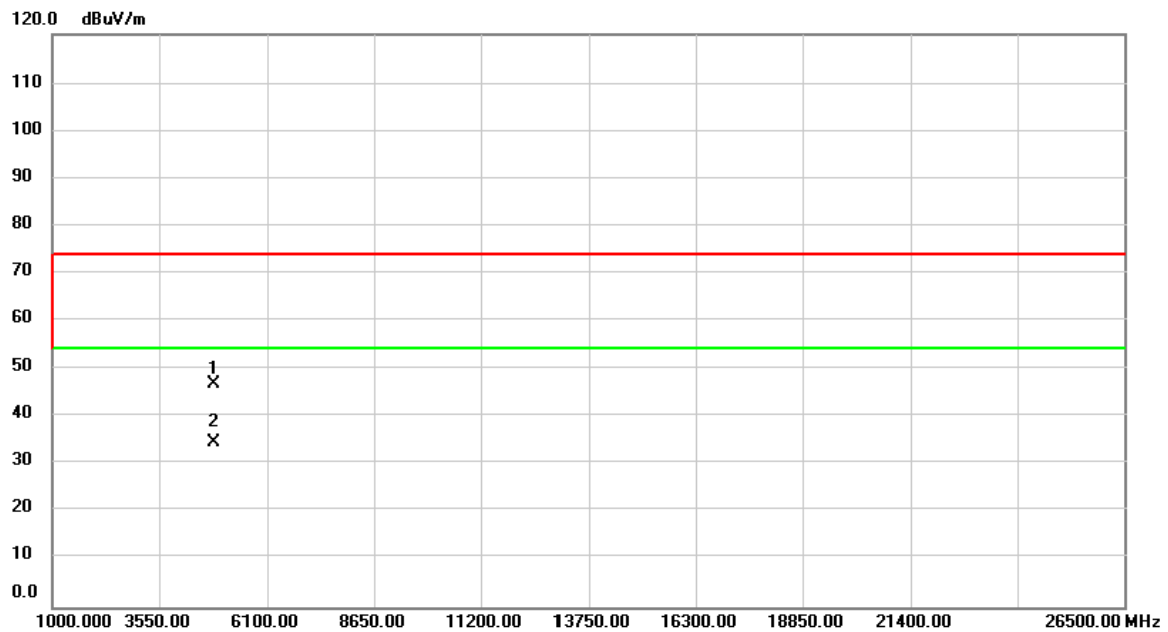
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	77.61	31.88	109.49	74.00	35.49	peak	No Limit
2	*	2437.000	69.40	31.88	101.28	54.00	47.28	AVG	No Limit

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

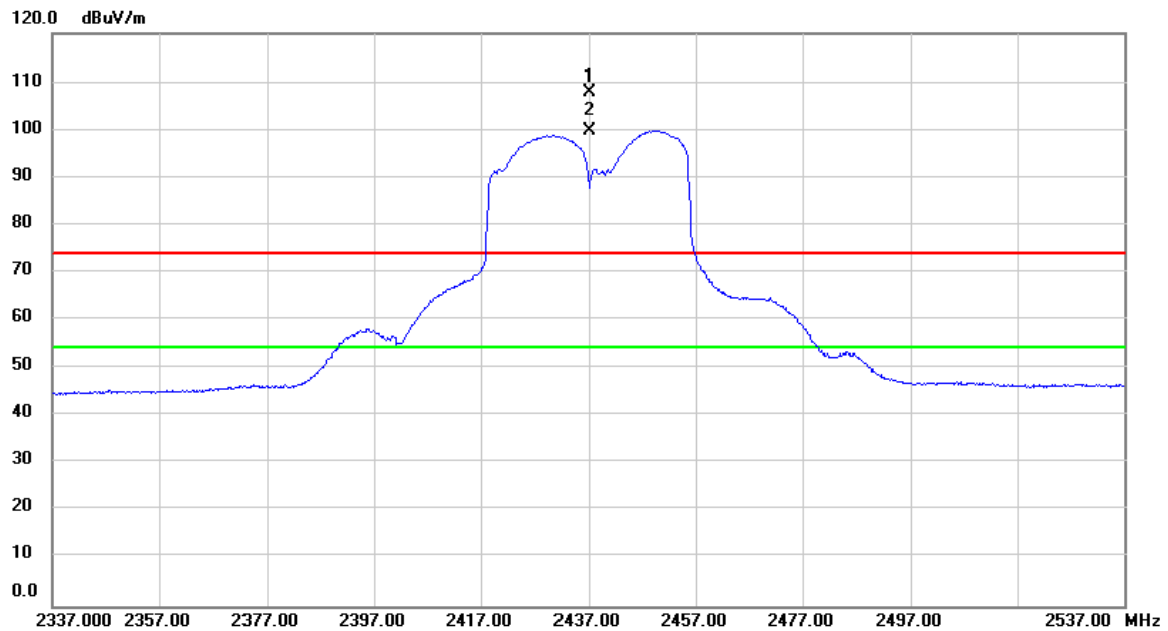
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	57.69	-10.88	46.81	74.00	-27.19	peak	
2	*	4874.000	45.41	-10.88	34.53	54.00	-19.47	AVG	

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

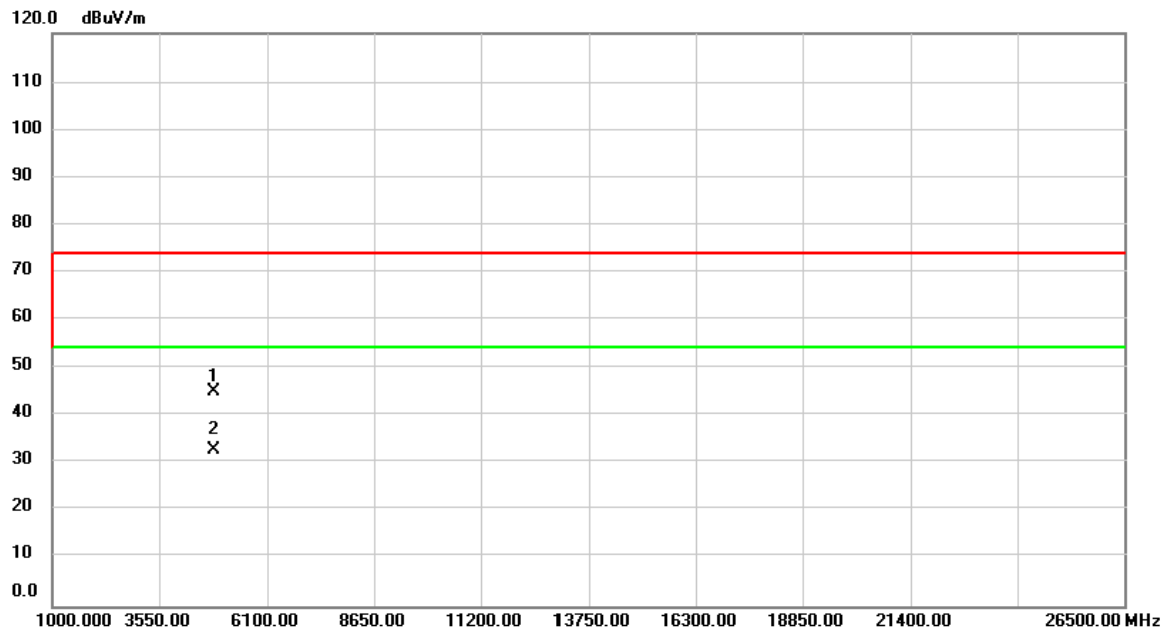
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	75.86	31.88	107.74	74.00	33.74	peak	No Limit
2	*	2437.000	67.92	31.88	99.80	54.00	45.80	AVG	No Limit

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

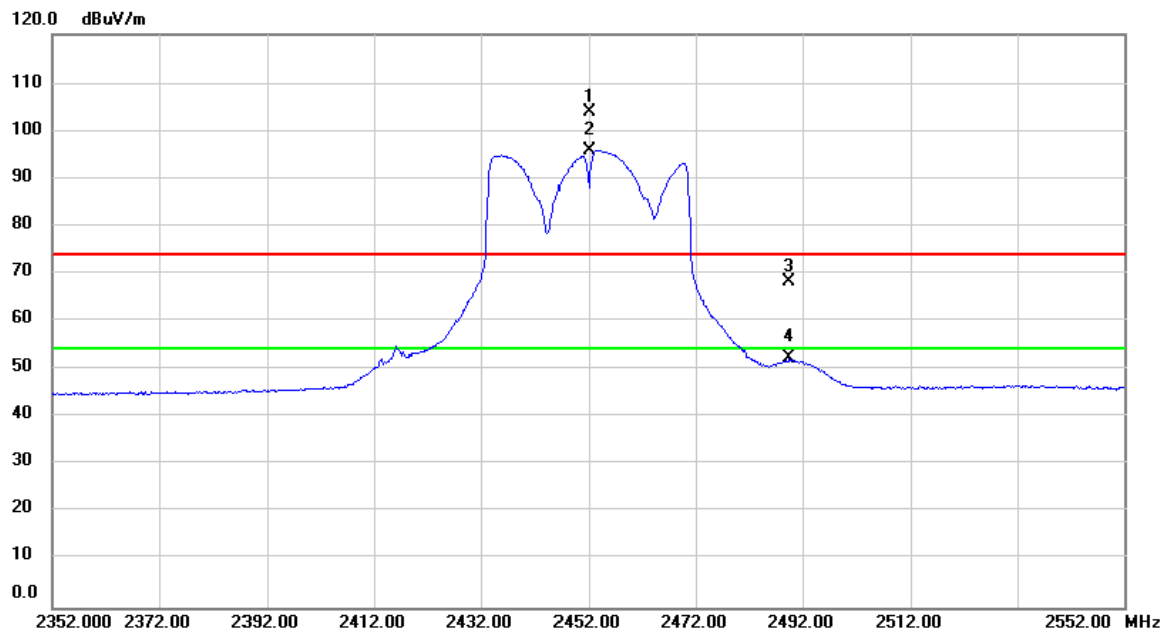
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4874.000	55.97	-10.88	45.09	74.00	-28.91	peak
2	*	4874.000	43.76	-10.88	32.88	54.00	-21.12	AVG

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

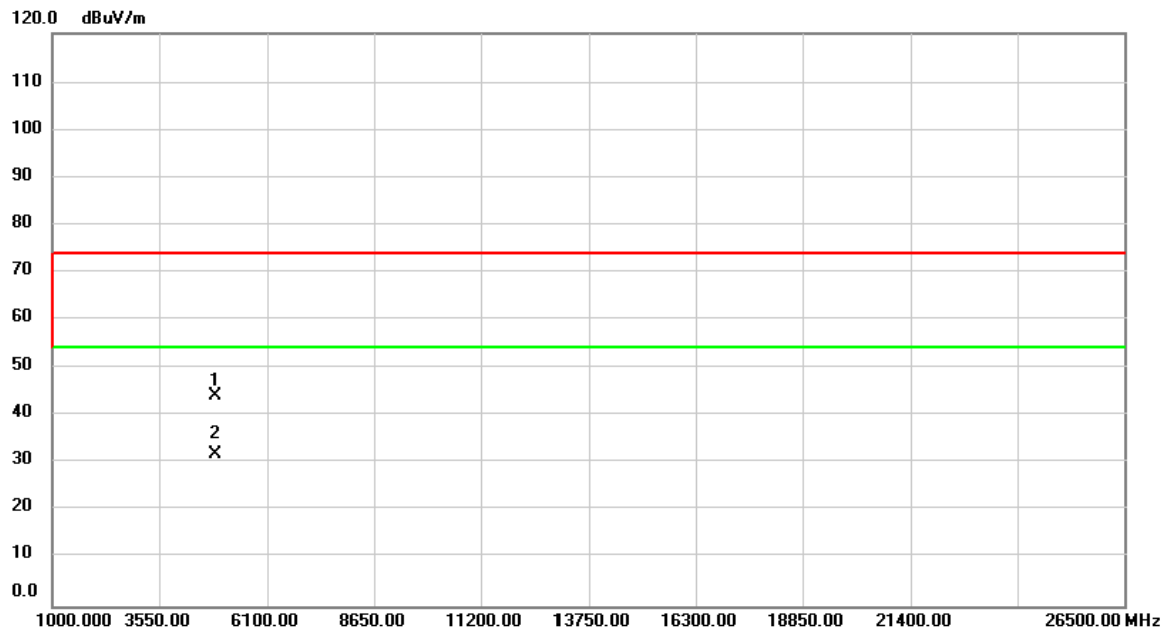
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2452.000	71.99	31.95	103.94	74.00	29.94	peak	No Limit
2	*	2452.000	63.85	31.95	95.80	54.00	41.80	AVG	No Limit
3		2489.600	36.29	32.09	68.38	74.00	-5.62	peak	
4		2489.600	20.20	32.09	52.29	54.00	-1.71	AVG	

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

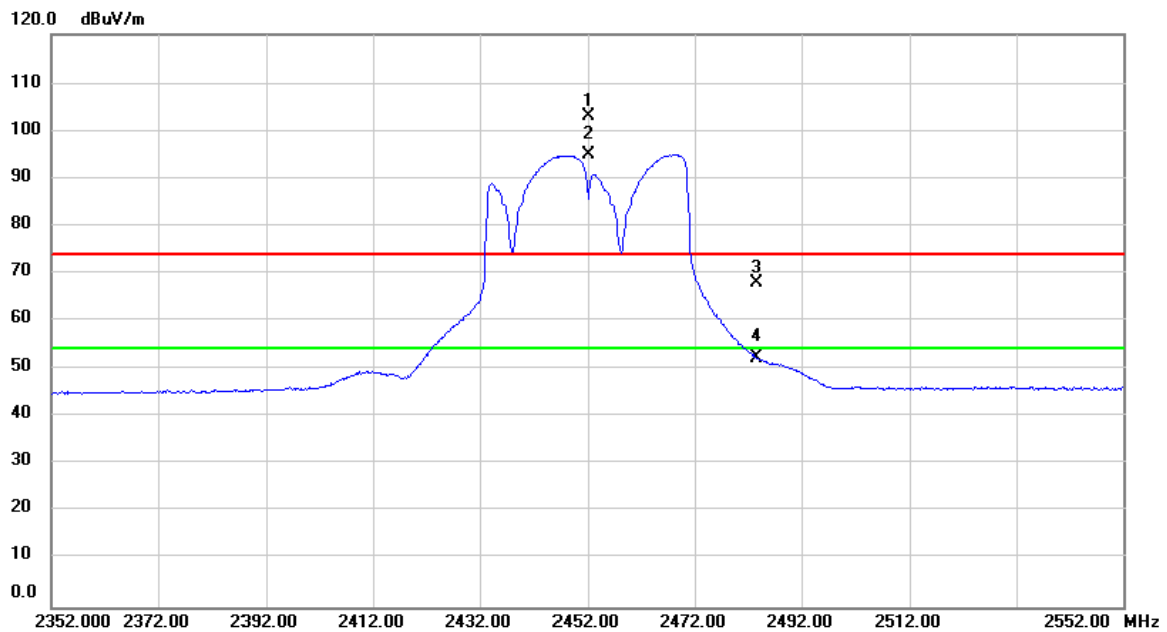
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4904.000	55.24	-10.84	44.40	74.00	-29.60	peak
2	*	4904.000	42.85	-10.84	32.01	54.00	-21.99	AVG

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

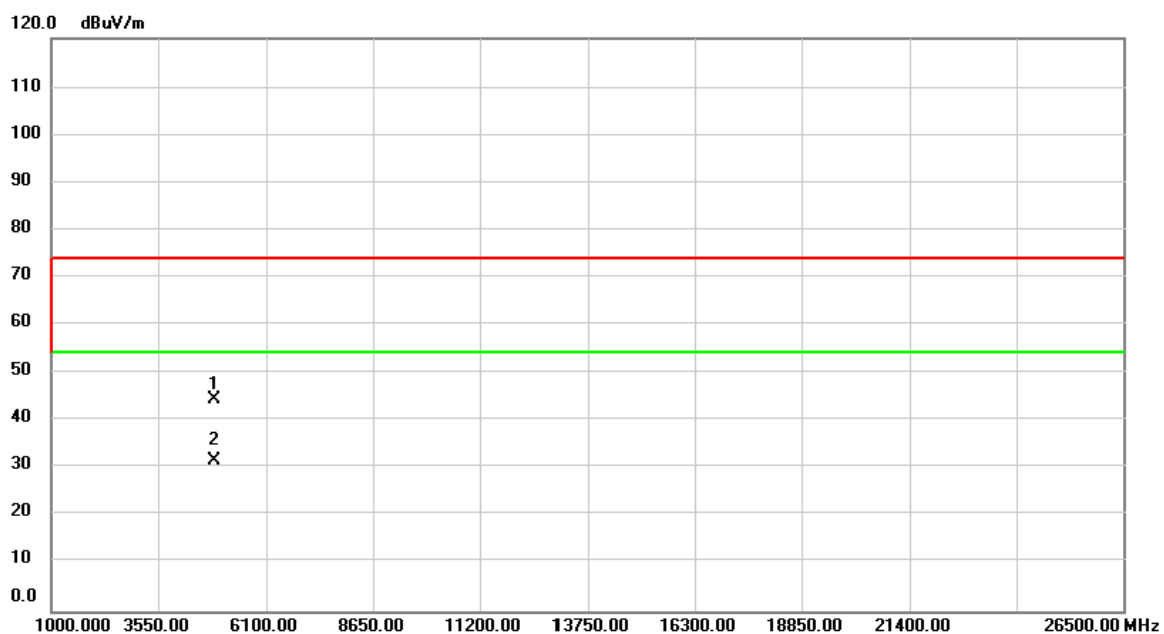
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2452.000	71.23	31.95	103.18	74.00	29.18	peak	No Limit
2	*	2452.000	63.00	31.95	94.95	54.00	40.95	AVG	No Limit
3		2483.568	35.97	32.06	68.03	74.00	-5.97	peak	
4		2483.568	20.39	32.06	52.45	54.00	-1.55	AVG	

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

Horizontal



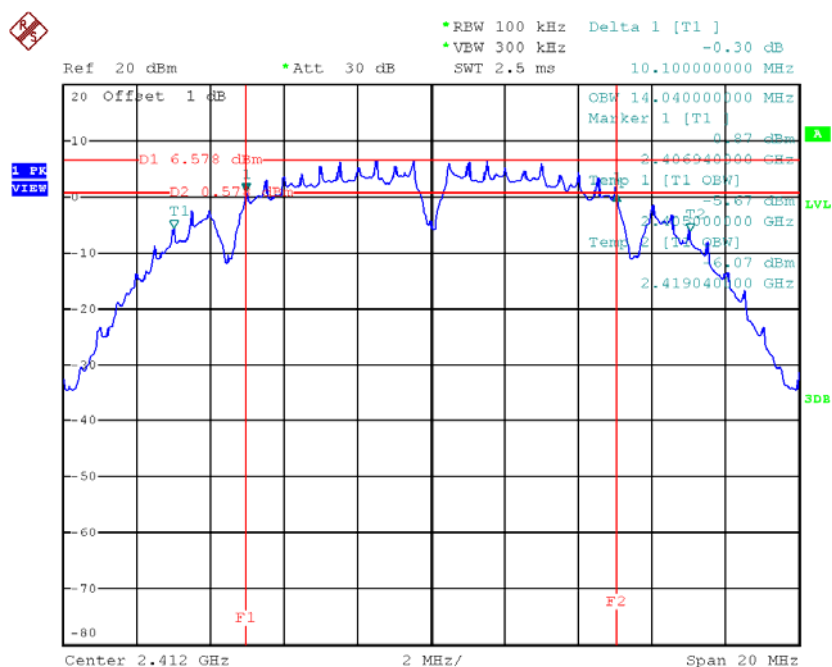
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	55.53	-10.84	44.69	74.00	-29.31	peak	
2	*	4904.000	42.62	-10.84	31.78	54.00	-22.22	AVG	

ATTACHMENT E - BANDWIDTH

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

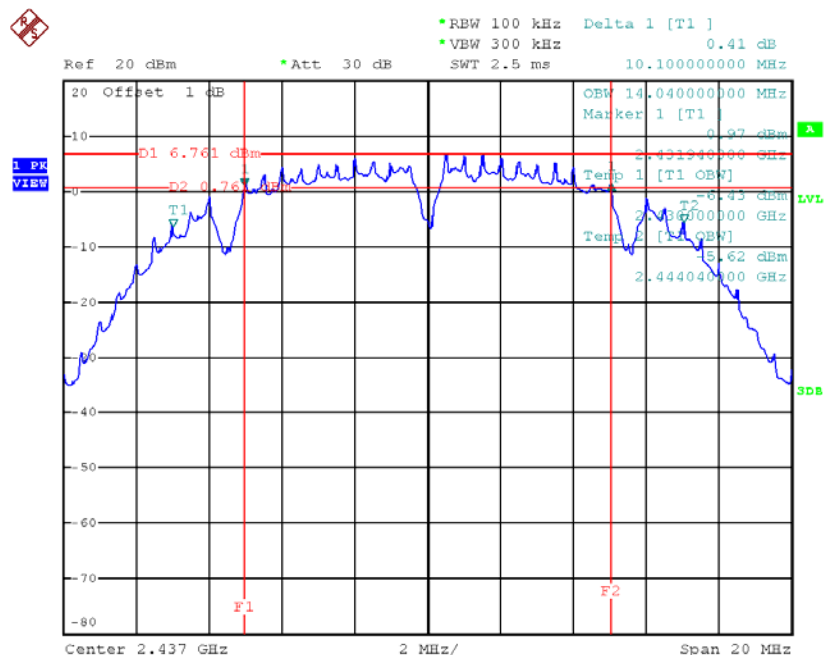
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.10	14.04	500	Complies
2437	10.10	14.04	500	Complies
2462	10.12	14.00	500	Complies

TX CH01



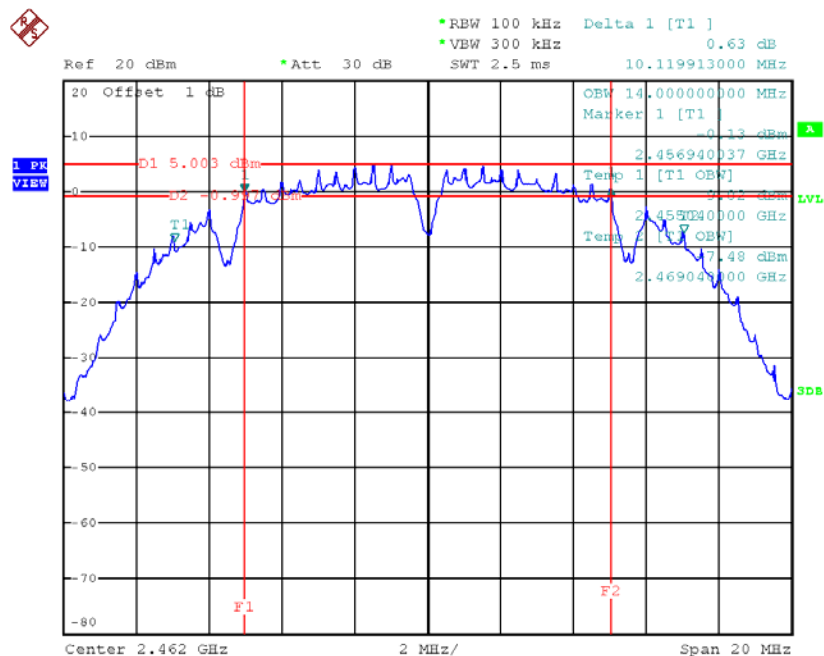
Date: 21.JUN.2016 11:24:51

TX CH06



Date: 21.JUN.2016 11:26:34

TX CH11

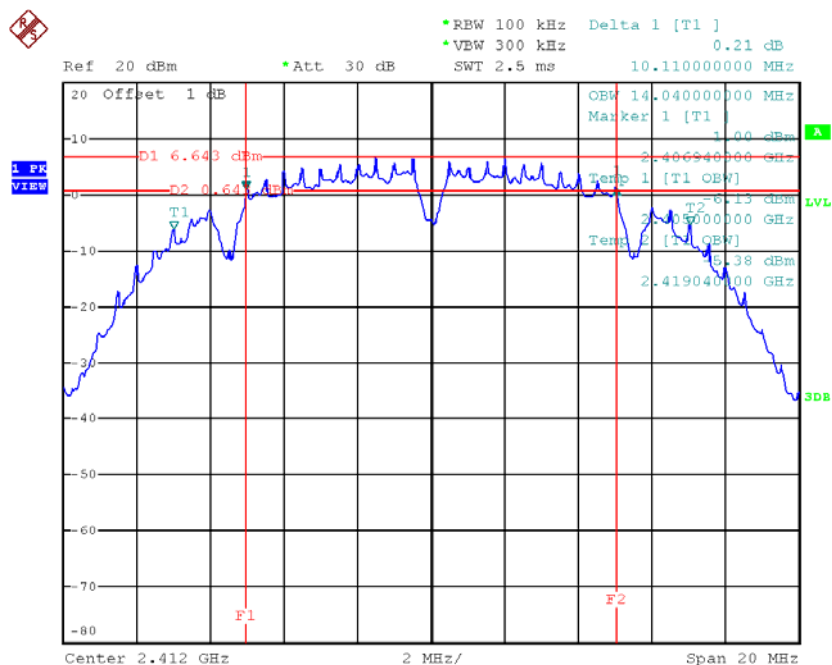


Date: 21.JUN.2016 11:29:36

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

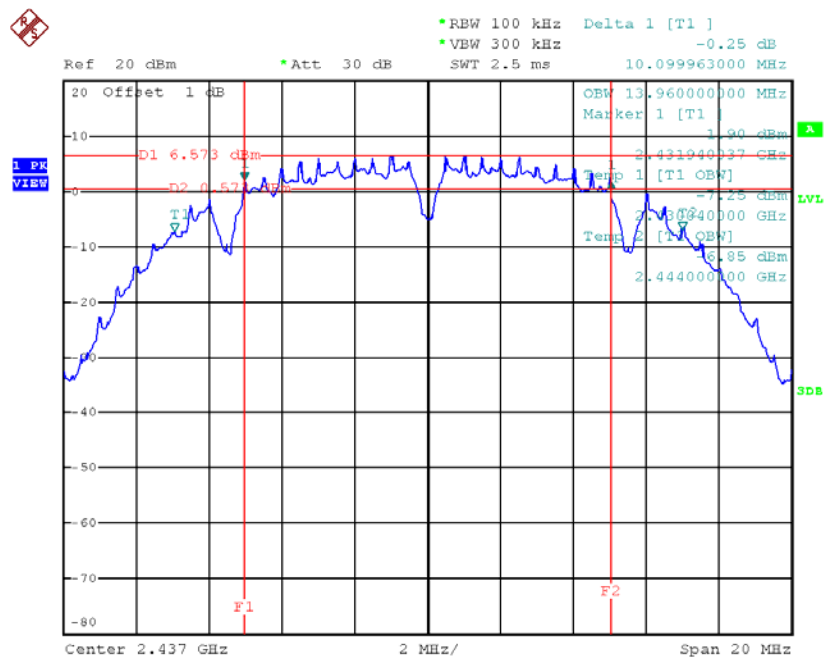
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.11	14.04	500	Complies
2437	10.09	13.96	500	Complies
2462	10.12	14.00	500	Complies

TX CH01



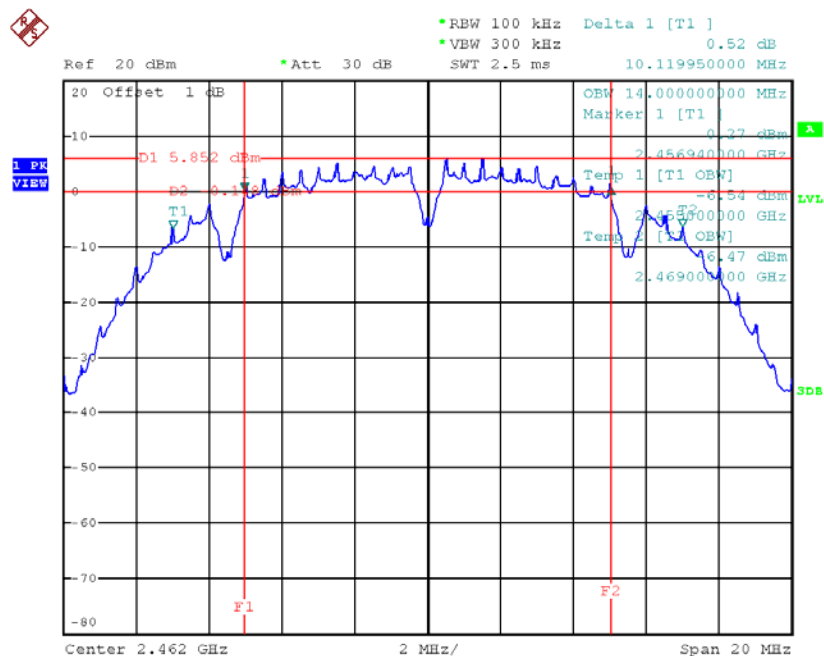
Date: 21.JUN.2016 12:26:45

TX CH06



Date: 21.JUN.2016 11:34:50

TX CH11

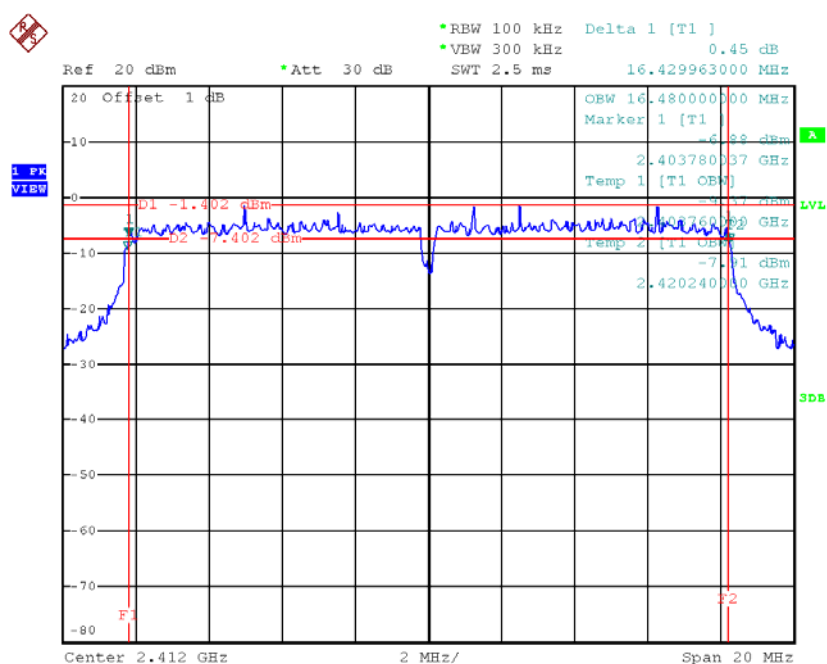


Date: 21.JUN.2016 11:36:20

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

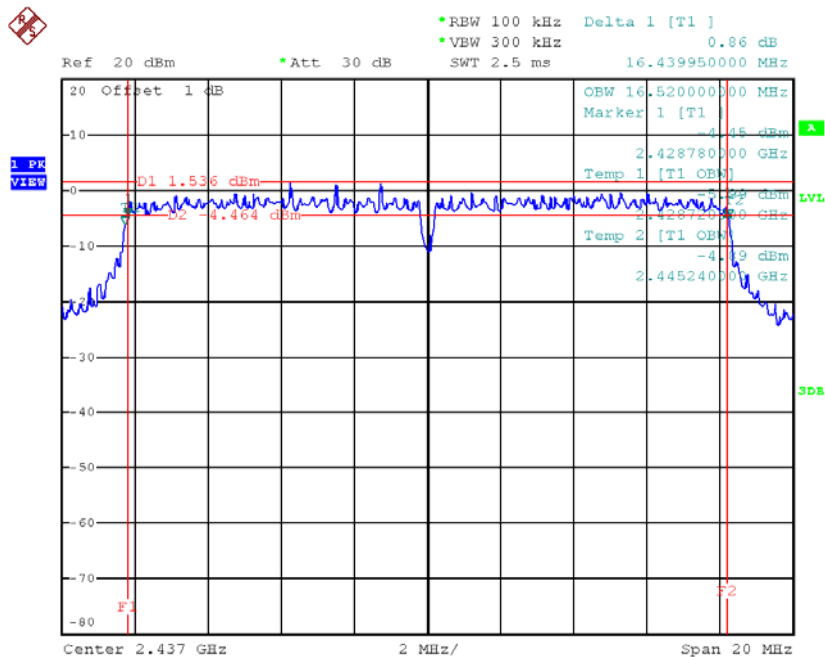
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.43	16.48	500	Complies
2437	16.44	16.52	500	Complies
2462	16.44	16.48	500	Complies

TX CH01



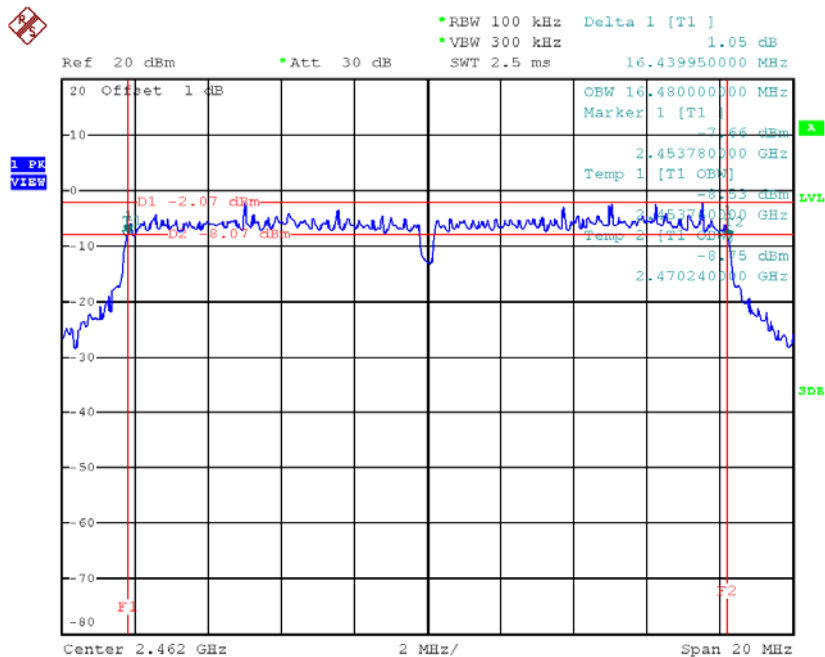
Date: 21.JUN.2016 11:39:41

TX CH06



Date: 21.JUN.2016 11:41:05

TX CH11

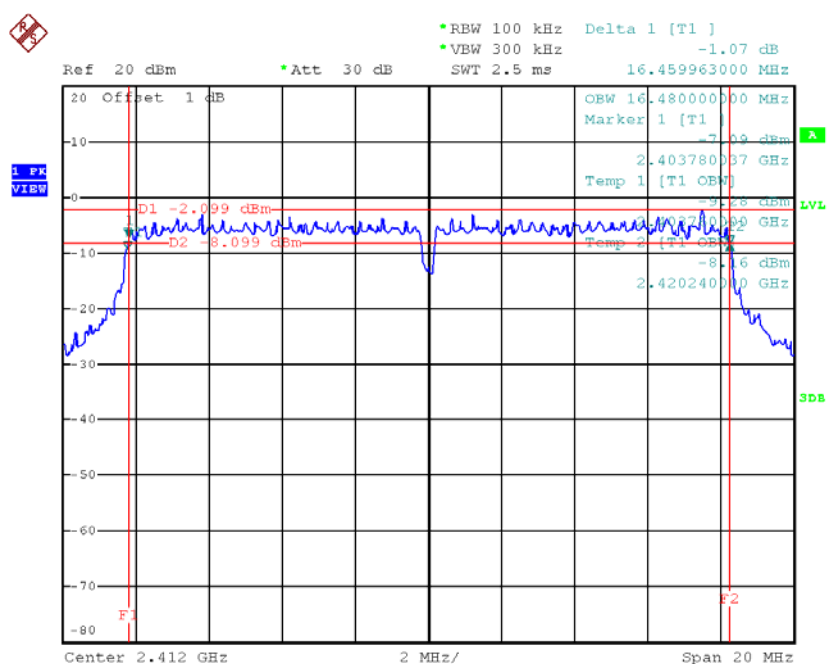


Date: 21.JUN.2016 11:42:36

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

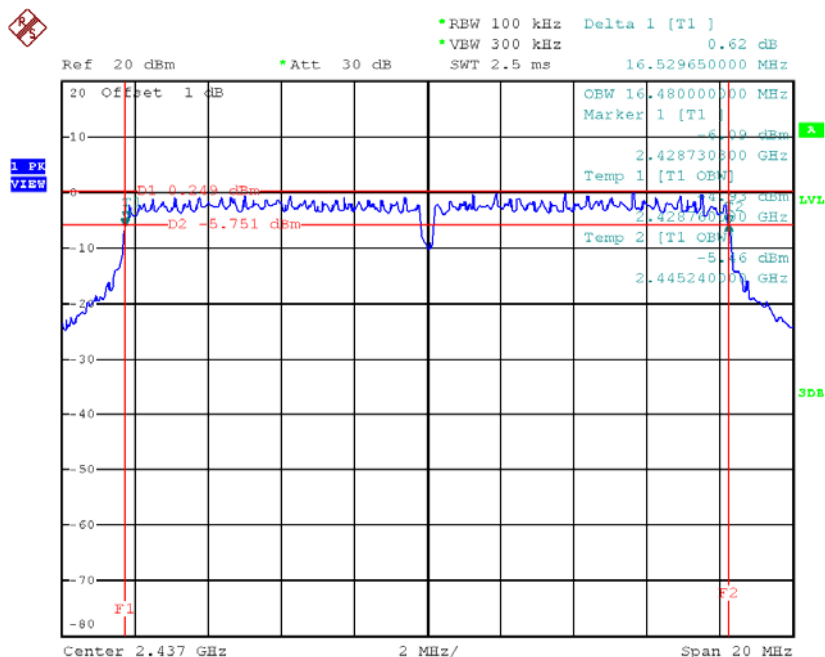
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.46	16.48	500	Complies
2437	16.53	16.48	500	Complies
2462	16.44	16.48	500	Complies

TX CH01



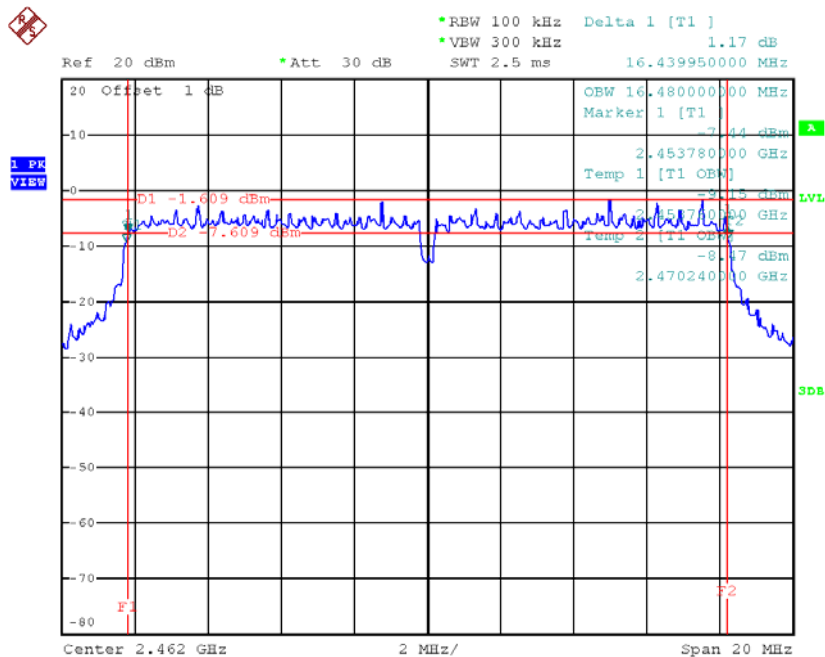
Date: 21.JUN.2016 11:45:02

TX CH06



Date: 21.JUN.2016 11:46:31

TX CH11

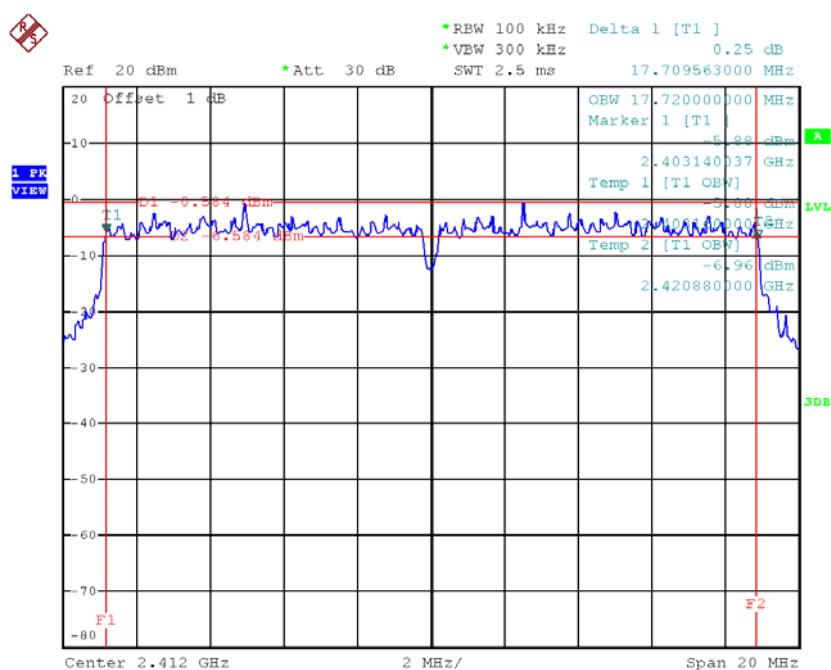


Date: 21.JUN.2016 11:48:24

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

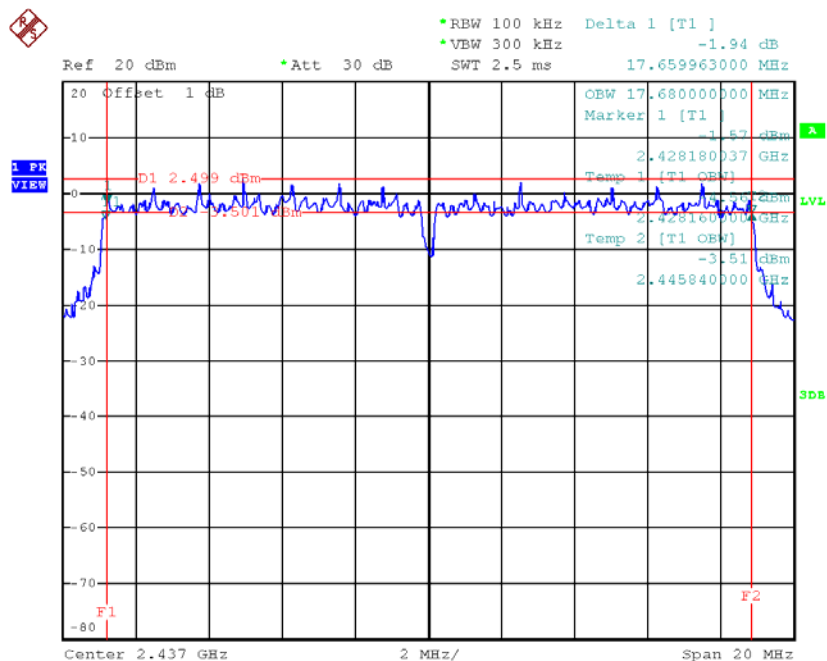
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.71	17.72	500	Complies
2437	17.66	17.68	500	Complies
2462	17.69	17.68	500	Complies

TX CH01



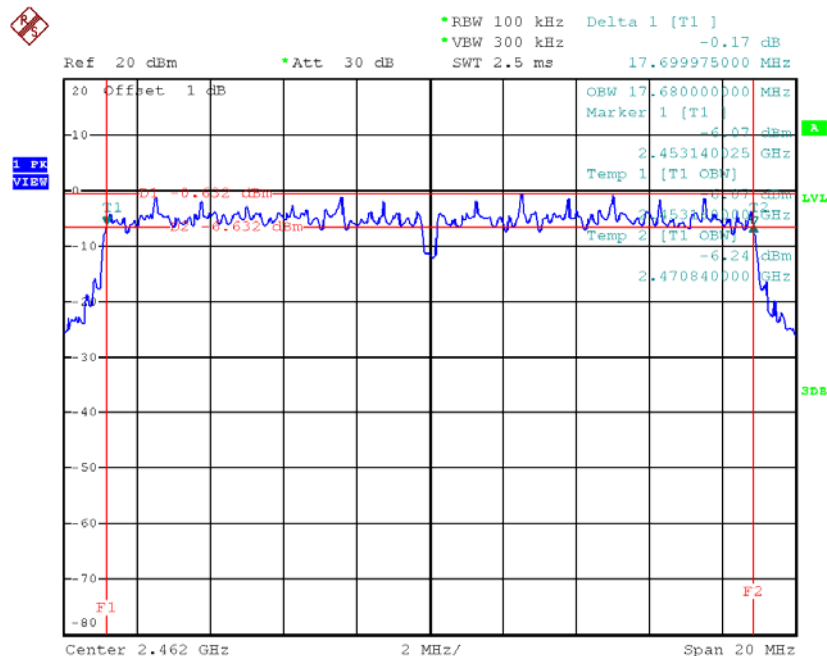
Date: 21.JUN.2016 11:49:41

TX CH06



Date: 21.JUN.2016 11:51:53

TX CH11

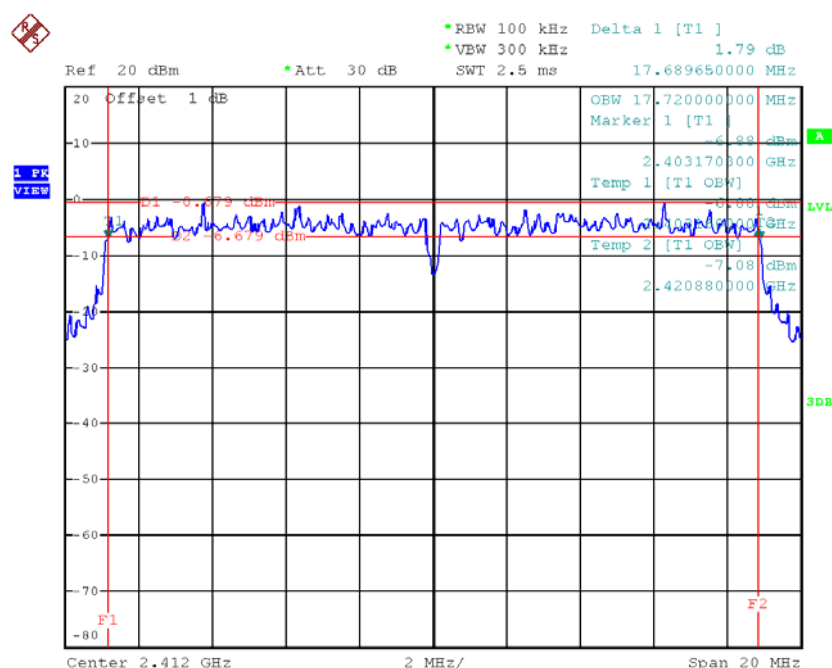


Date: 21.JUN.2016 11:53:32

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

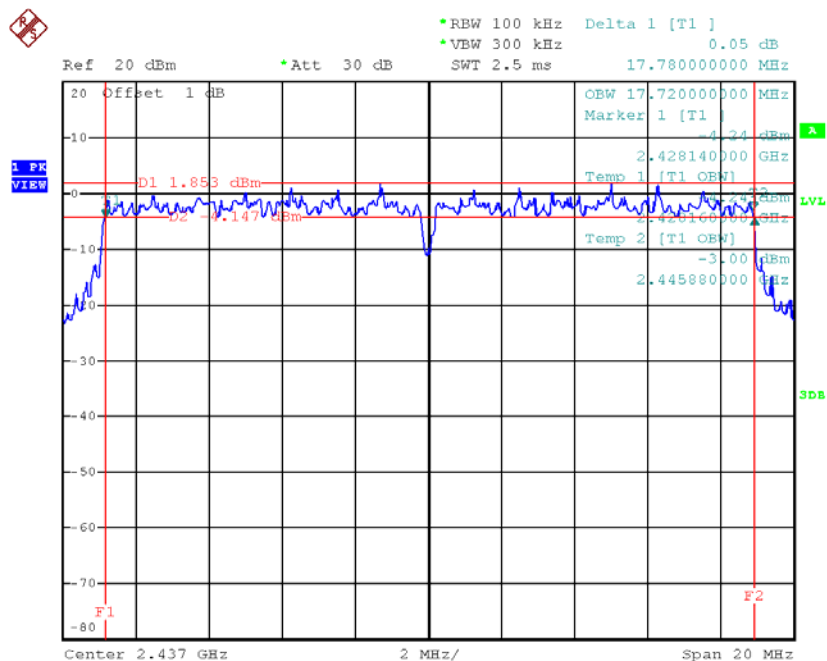
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.69	17.72	500	Complies
2437	17.78	17.72	500	Complies
2462	17.72	17.72	500	Complies

TX CH01



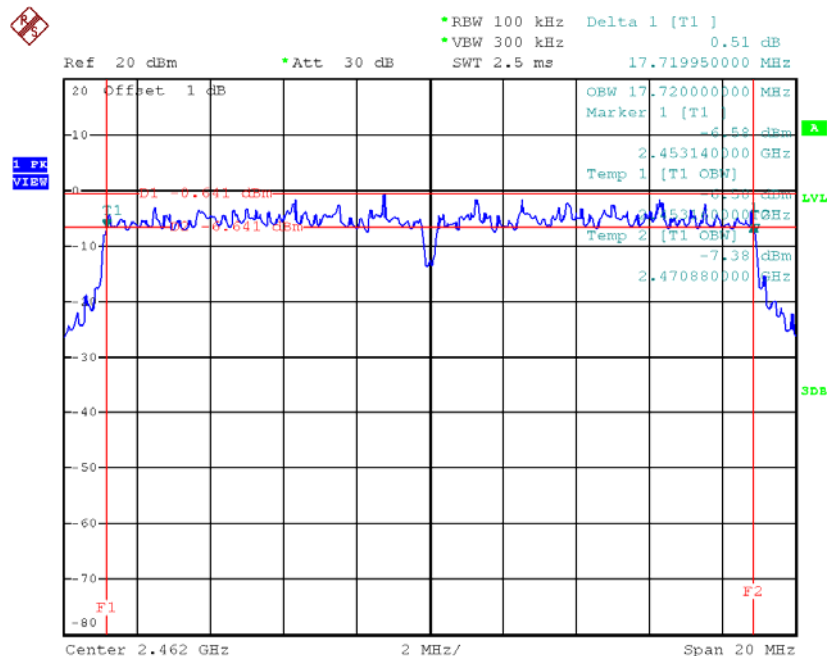
Date: 21.JUN.2016 11:55:51

TX CH06



Date: 21.JUN.2016 11:57:06

TX CH11

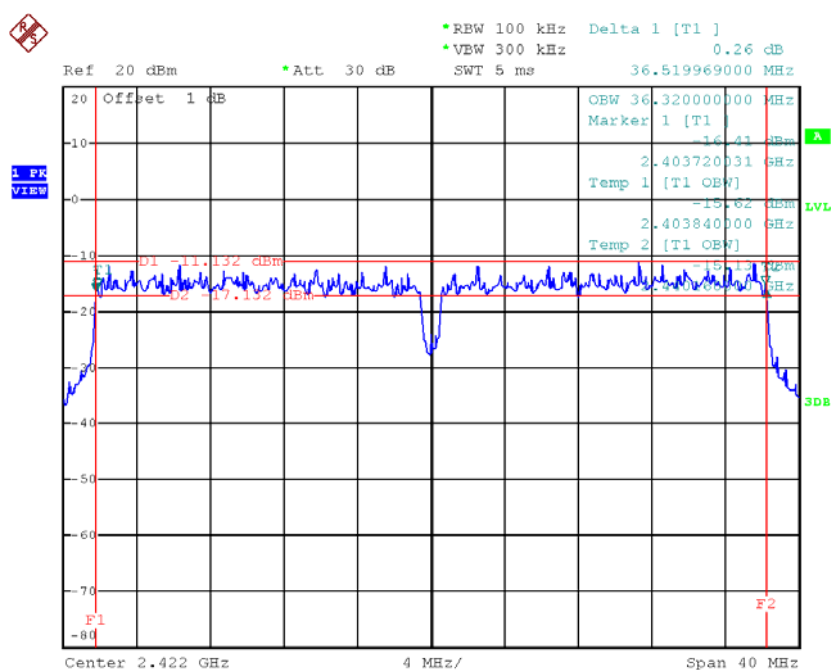


Date: 21.JUN.2016 12:01:15

Test Mode : TX N-40MHz Mode_CH01/06/11_ANT 1

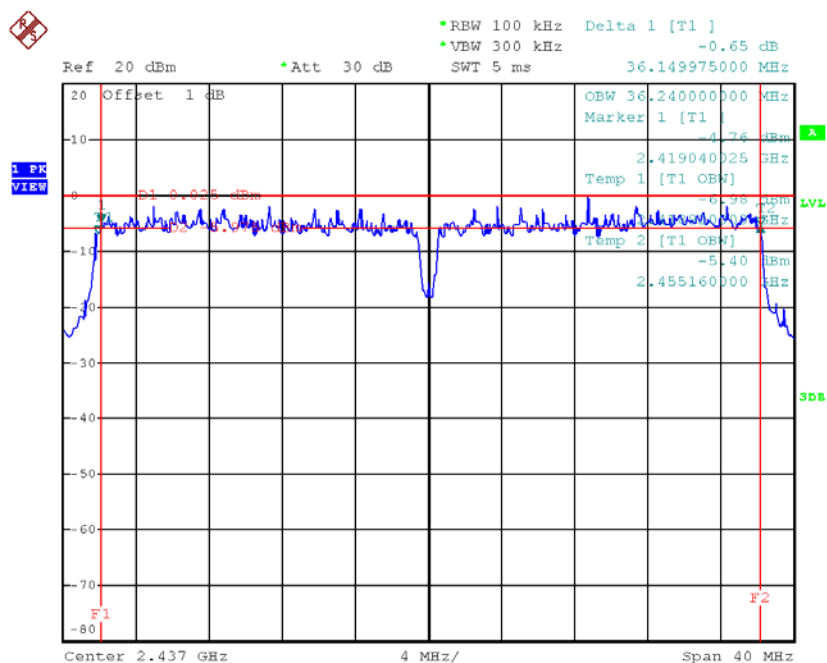
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.52	36.32	500	Complies
2437	36.14	36.24	500	Complies
2452	36.20	36.24	500	Complies

TX CH03



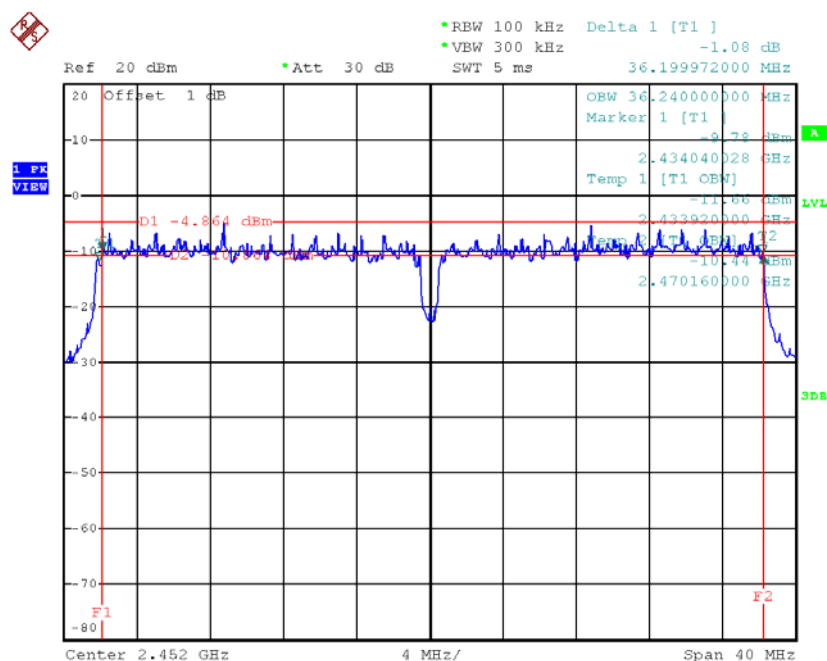
Date: 21.JUN.2016 12:04:03

TX CH06



Date: 21.JUN.2016 12:07:22

TX CH09

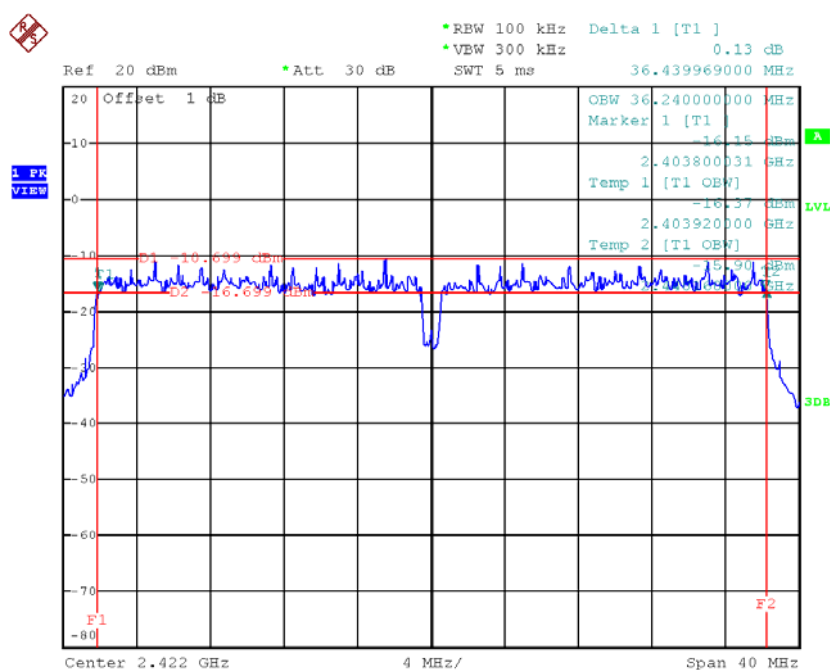


Date: 21.JUN.2016 12:09:32

Test Mode : TX N-40MHz Mode_CH01/06/11_ANT 2

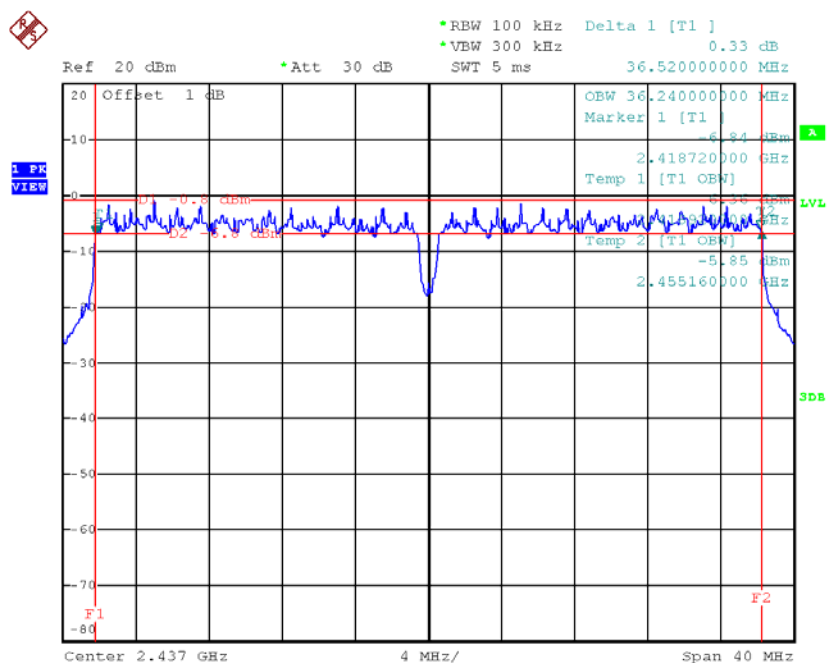
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.44	36.24	500	Complies
2437	36.52	36.24	500	Complies
2452	36.52	36.32	500	Complies

TX CH03



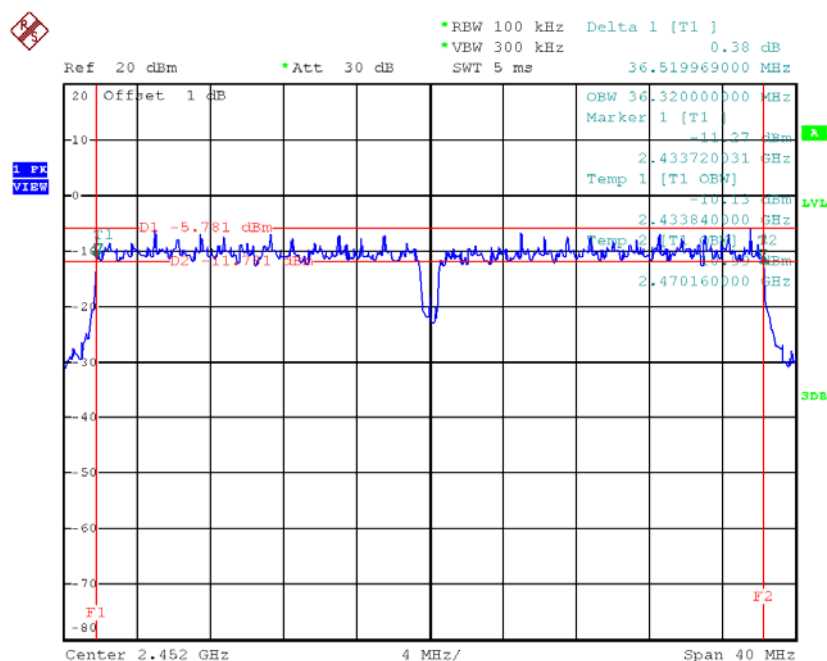
Date: 21.JUN.2016 12:13:00

TX CH06



Date: 21.JUN.2016 12:14:43

TX CH09



Date: 21.JUN.2016 12:18:05

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.85	0.0610	30.00	1.00	Complies
2437	18.95	0.0785	30.00	1.00	Complies
2462	17.06	0.0508	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.95	0.0624	30.00	1.00	Complies
2437	18.33	0.0681	30.00	1.00	Complies
2462	17.89	0.0615	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.91	0.1233	30.00	1.00	Complies
2437	21.66	0.1466	30.00	1.00	Complies
2462	20.51	0.1123	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.11	0.1291	30.00	1.00	Complies
2437	23.84	0.2421	30.00	1.00	Complies
2462	21.01	0.1262	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.45	0.1396	30.00	1.00	Complies
2437	24.40	0.2754	30.00	1.00	Complies
2462	20.31	0.1074	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.29	0.2688	30.00	1.00	Complies
2437	27.14	0.5175	30.00	1.00	Complies
2462	23.68	0.2336	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.15	0.1303	30.00	1.00	Complies
2437	23.53	0.2254	30.00	1.00	Complies
2462	21.27	0.1340	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.03	0.1268	30.00	1.00	Complies
2437	24.09	0.2564	30.00	1.00	Complies
2462	20.48	0.1117	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.10	0.2571	30.00	1.00	Complies
2437	26.83	0.4819	30.00	1.00	Complies
2462	23.90	0.2457	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	14.84	0.0305	30.00	1.00	Complies
2437	23.15	0.2065	30.00	1.00	Complies
2452	18.48	0.0705	30.00	1.00	Complies

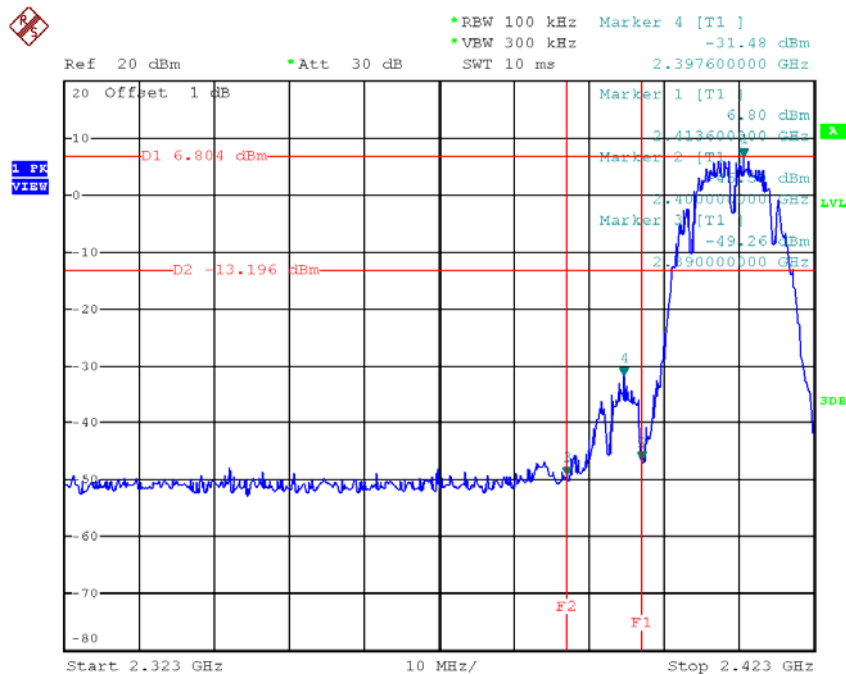
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.18	0.0330	30.00	1.00	Complies
2437	23.53	0.2254	30.00	1.00	Complies
2452	19.79	0.0953	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.02	0.0634	30.00	1.00	Complies
2437	26.35	0.4320	30.00	1.00	Complies
2452	22.19	0.1657	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

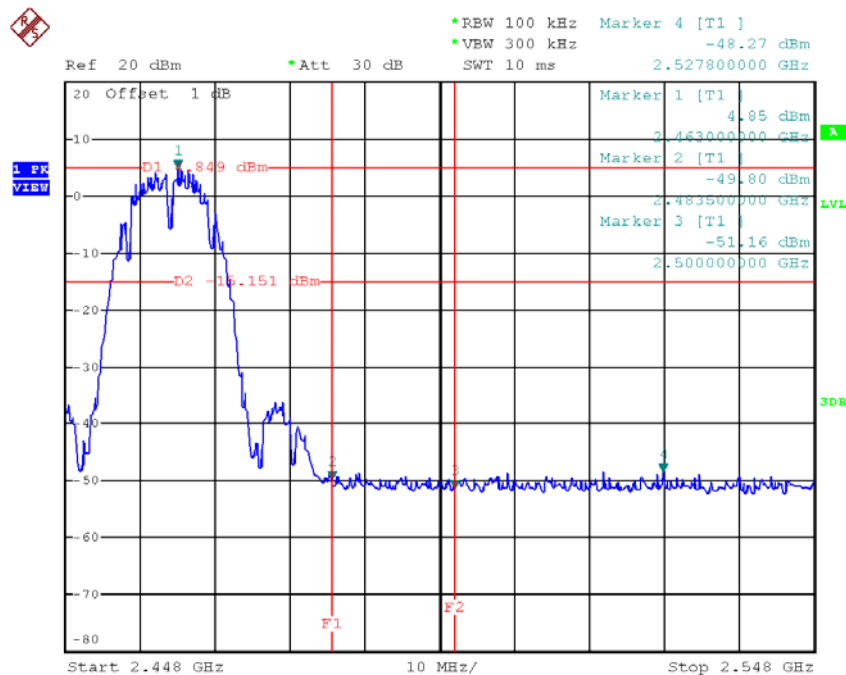
Test Mode : TX B Mode_ANT 1

TX B mode CH01



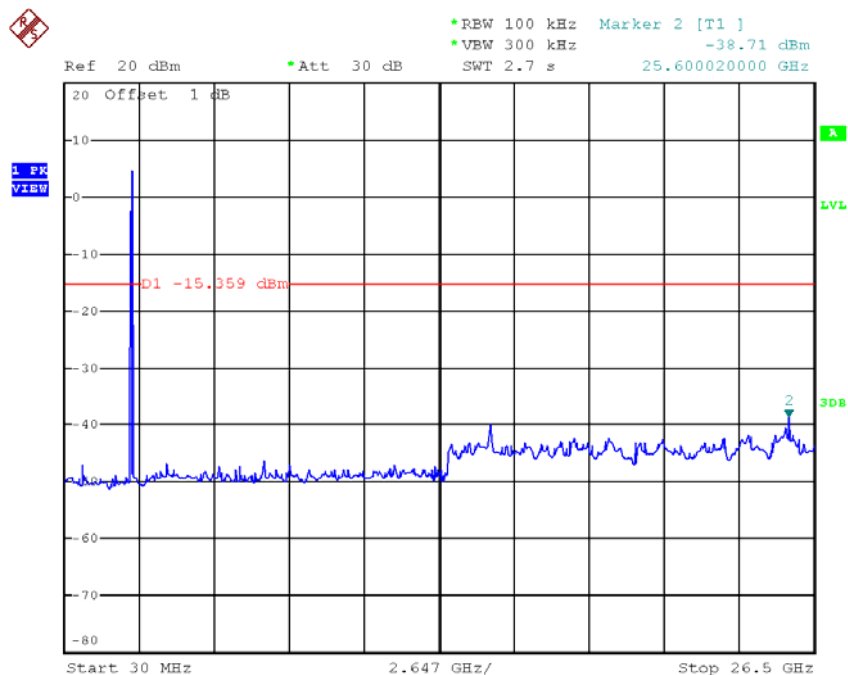
Date: 21.JUN.2016 11:25:11

TX B mode CH11



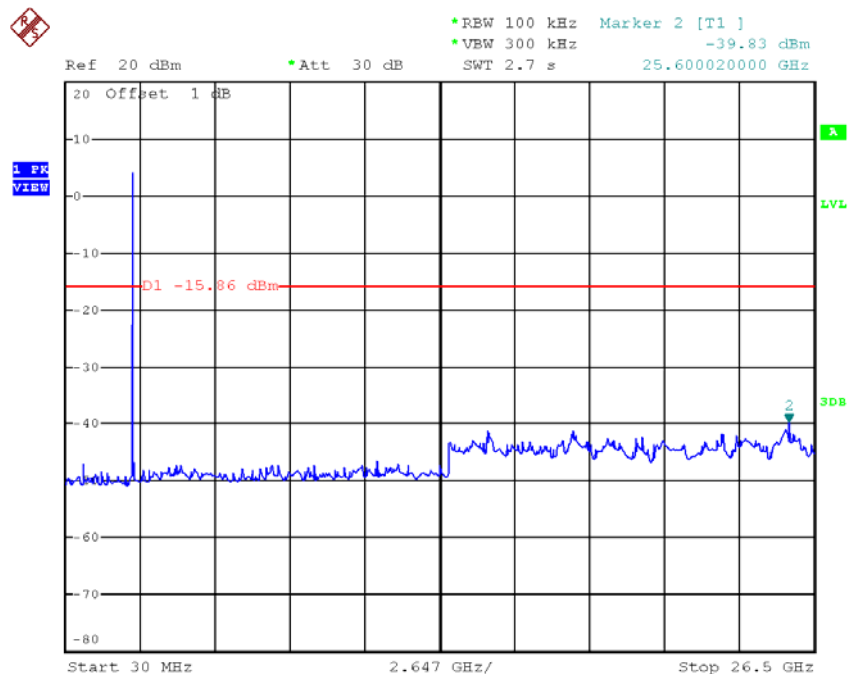
Date: 21.JUN.2016 11:29:56

TX B mode CH01 (10 Harmonic of the frequency)



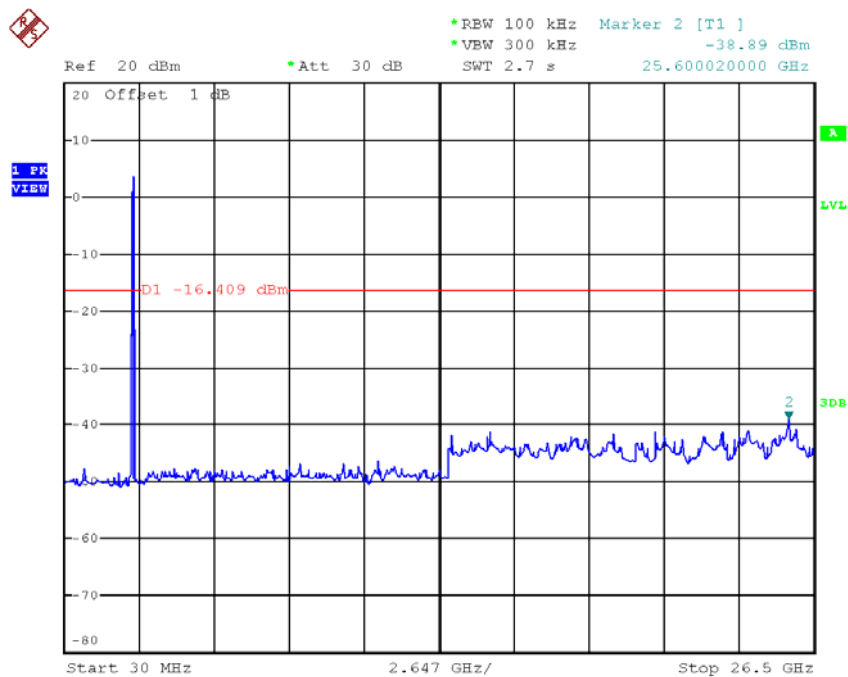
Date: 21.JUN.2016 11:25:04

TX B mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:26:47

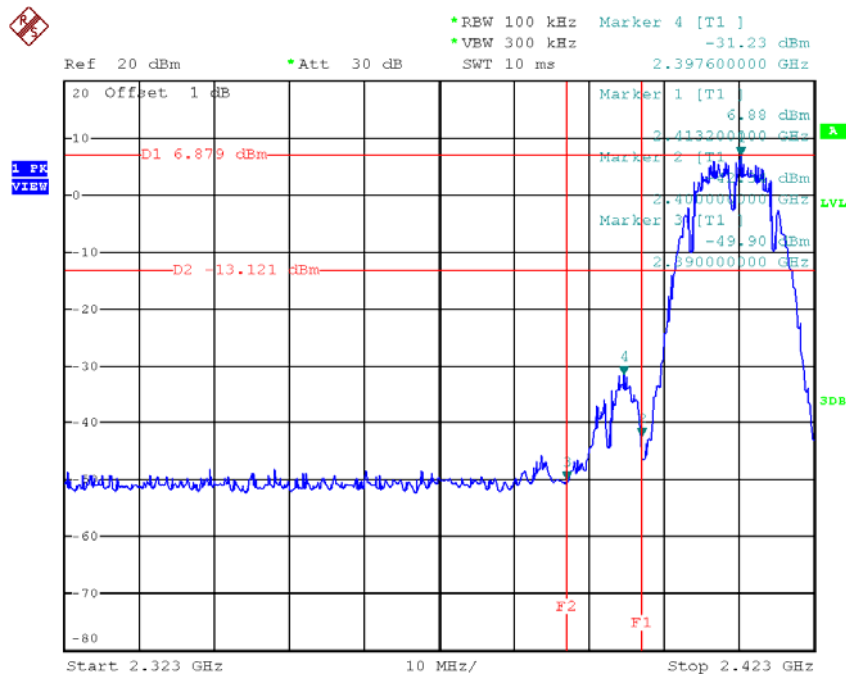
TX B mode CH11 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:29:49

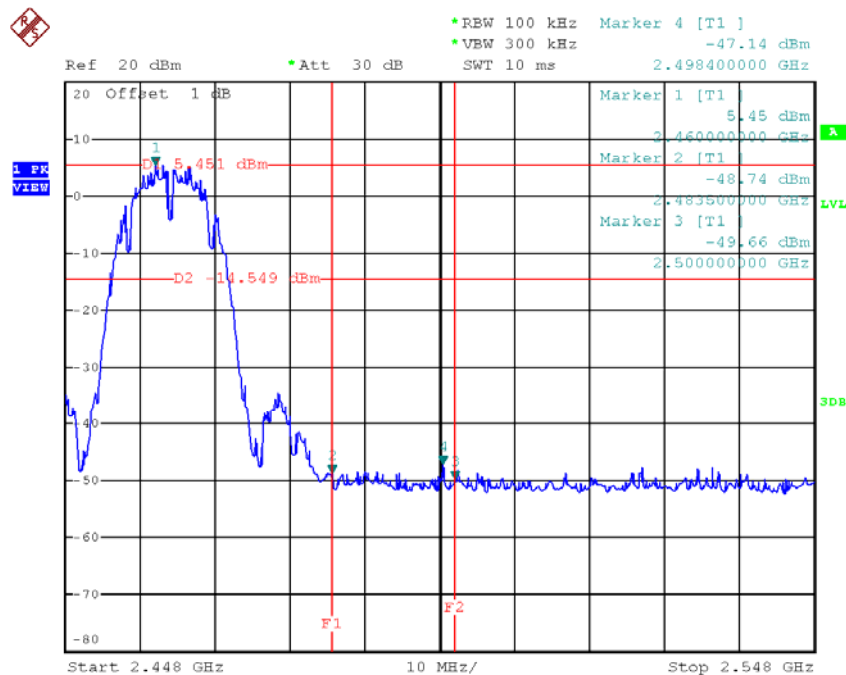
Test Mode : TX B Mode_ANT 2

TX B mode CH01



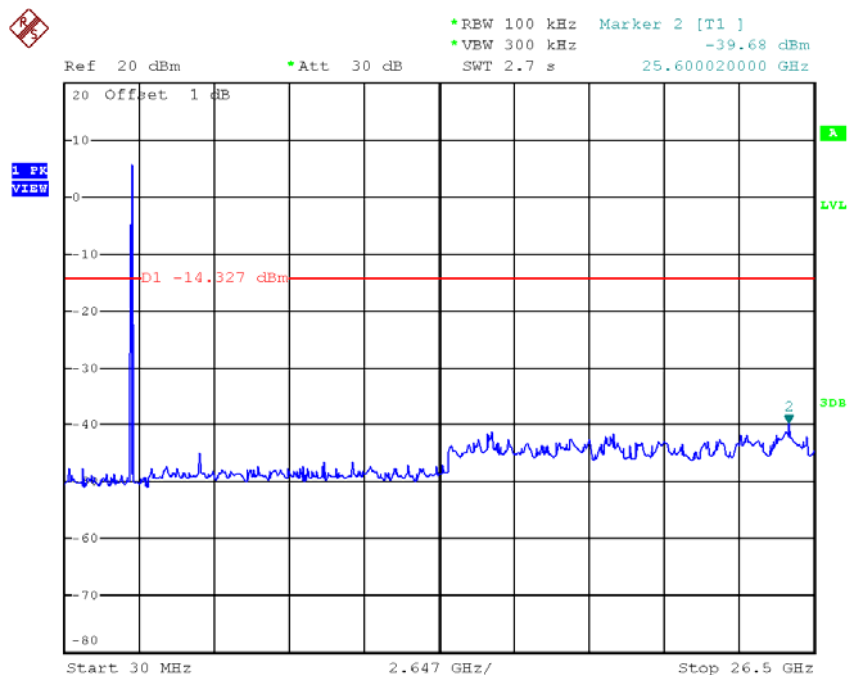
Date: 21.JUN.2016 12:27:22

TX B mode CH11



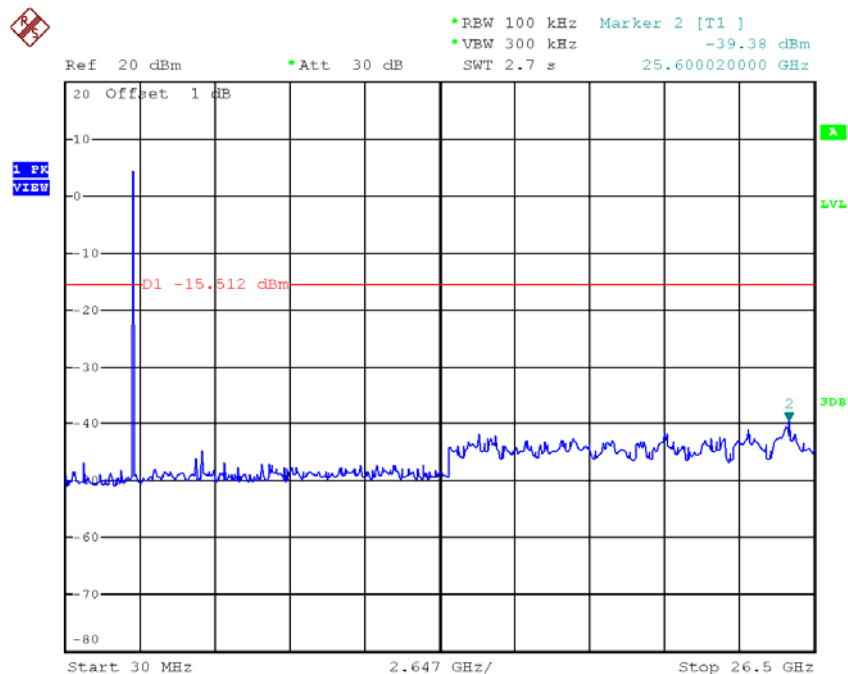
Date: 21.JUN.2016 11:36:40

TX B mode CH01 (10 Harmonic of the frequency)



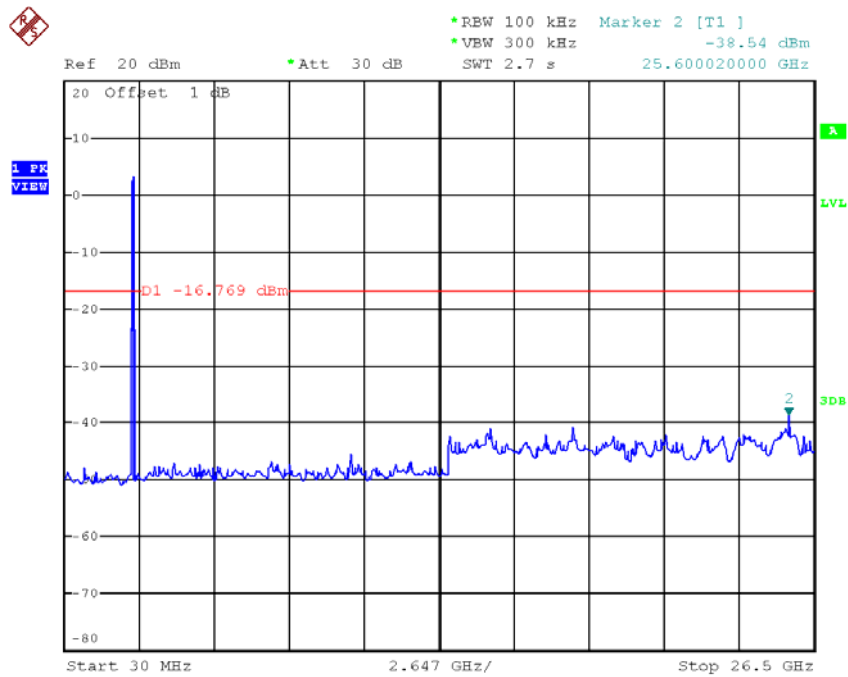
Date: 21.JUN.2016 12:26:58

TX B mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:35:03

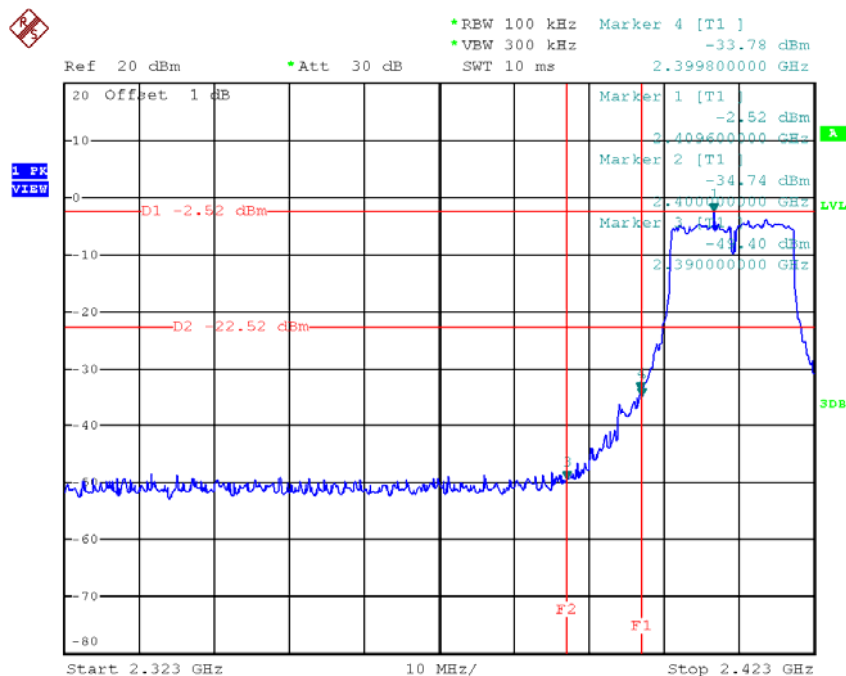
TX B mode CH11 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:36:33

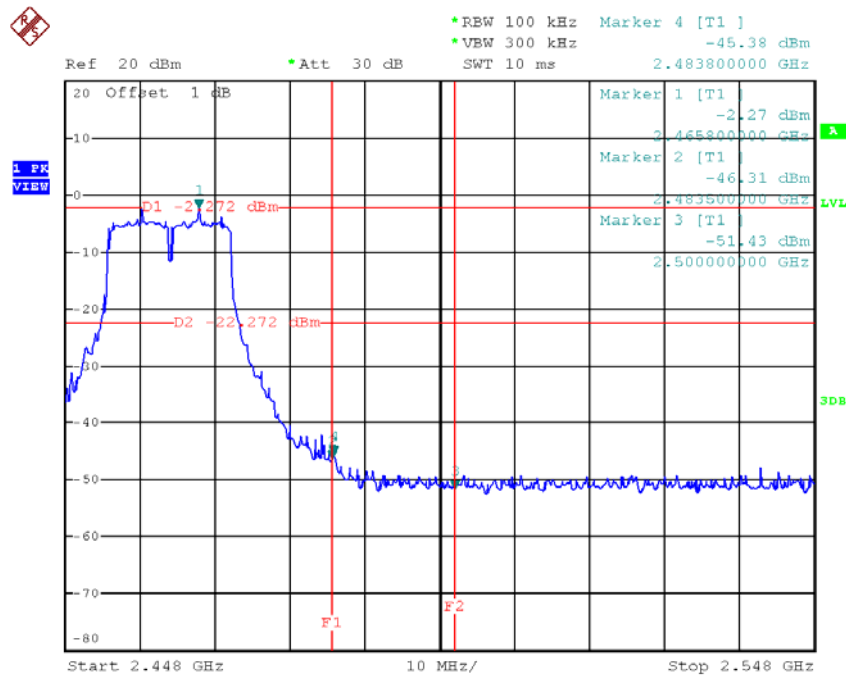
Test Mode : TX G Mode_ANT 1

TX G mode CH01



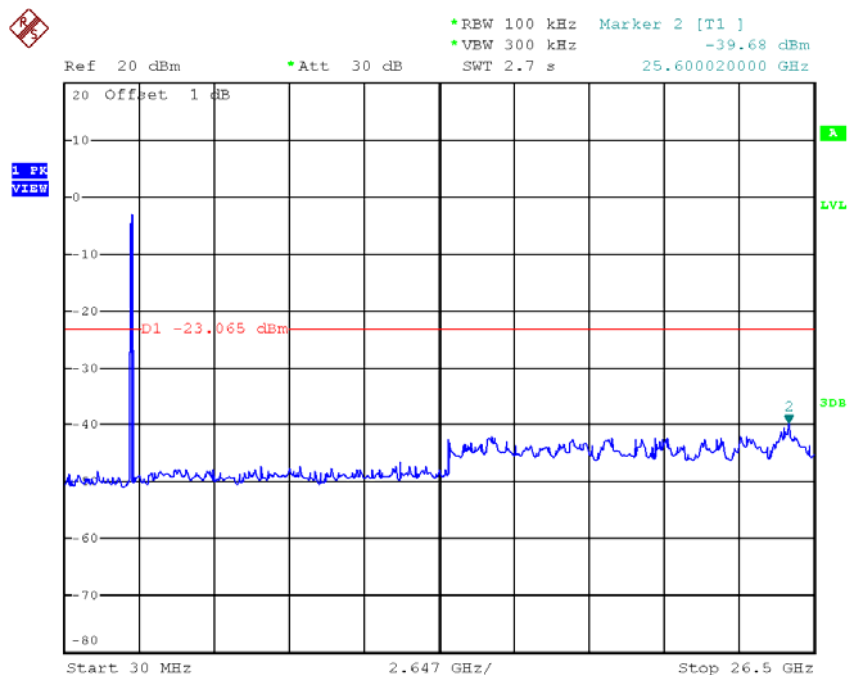
Date: 21.JUN.2016 11:40:01

TX G mode CH11



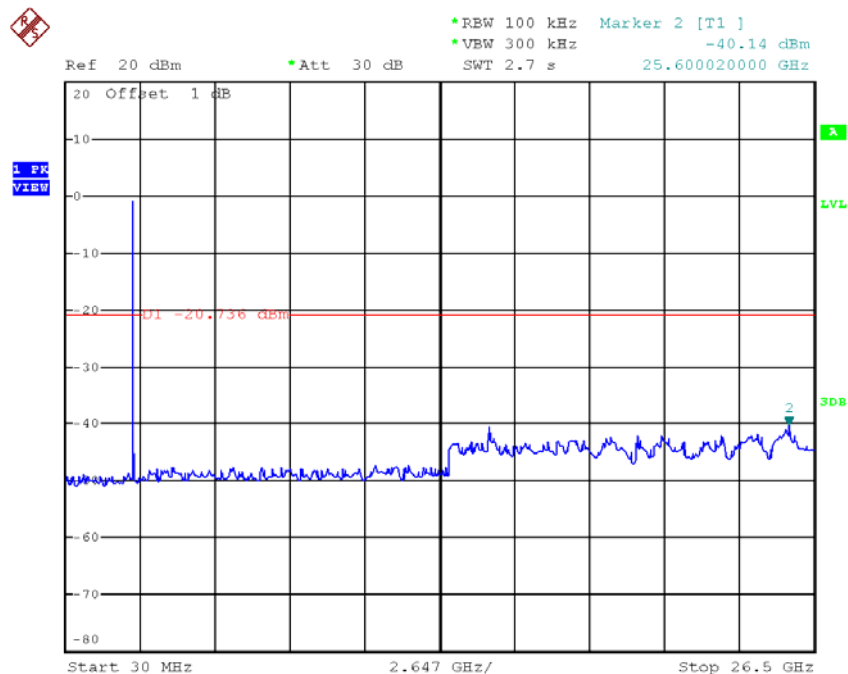
Date: 21.JUN.2016 11:42:56

TX G mode CH01 (10 Harmonic of the frequency)



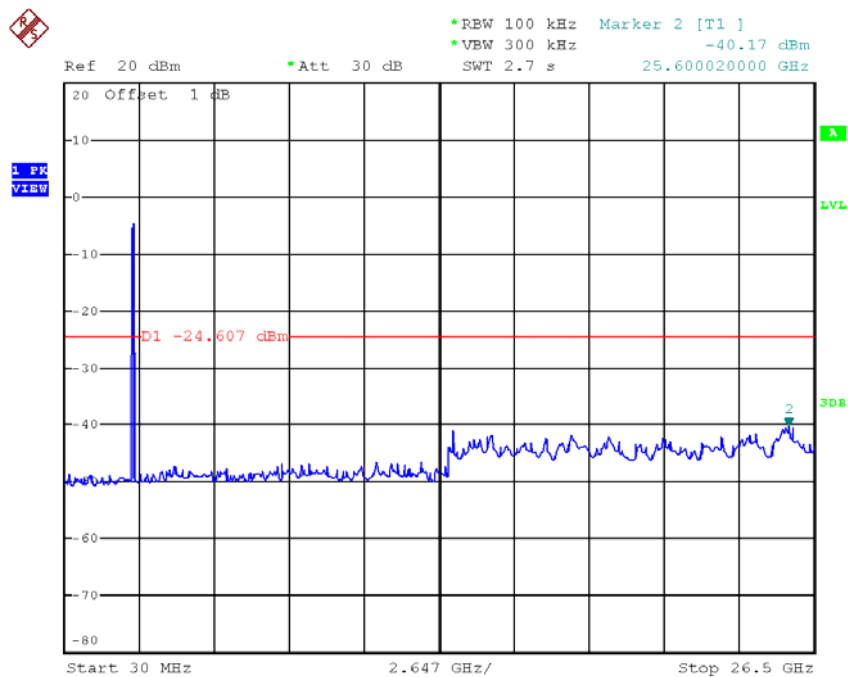
Date: 21.JUN.2016 11:39:54

TX G mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:41:18

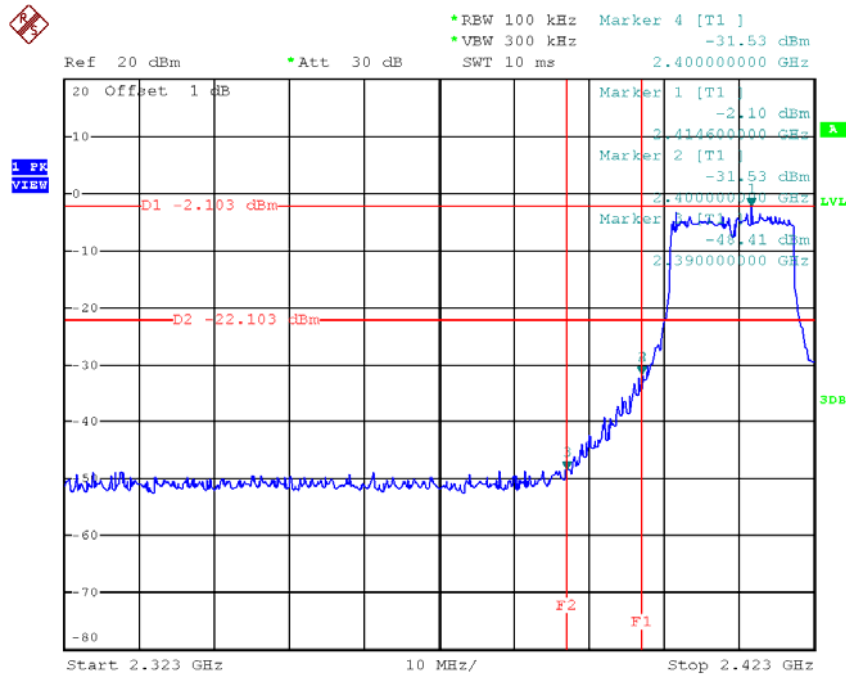
TX G mode CH11 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:42:49

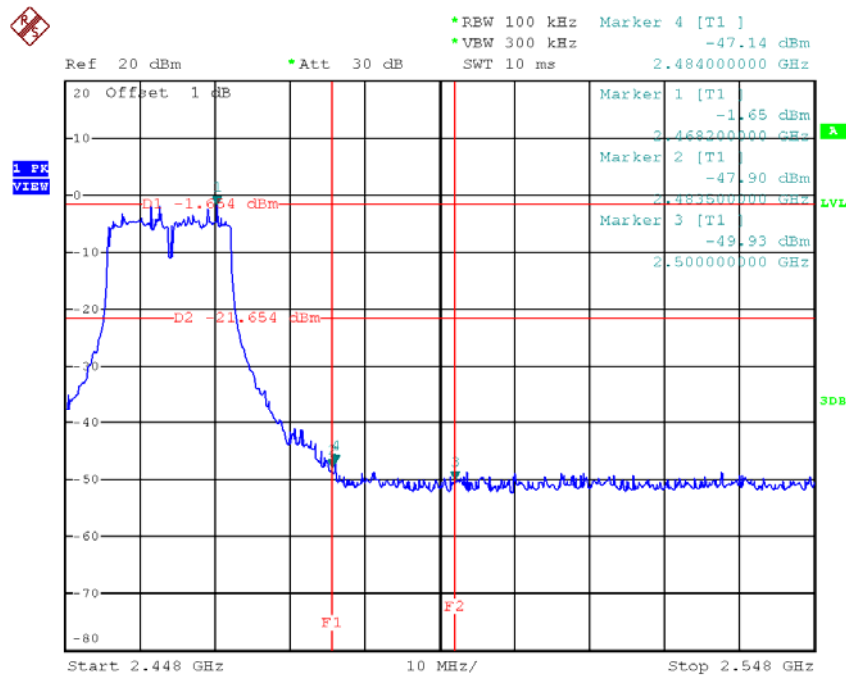
Test Mode : TX G Mode_ANT 2

TX G mode CH01



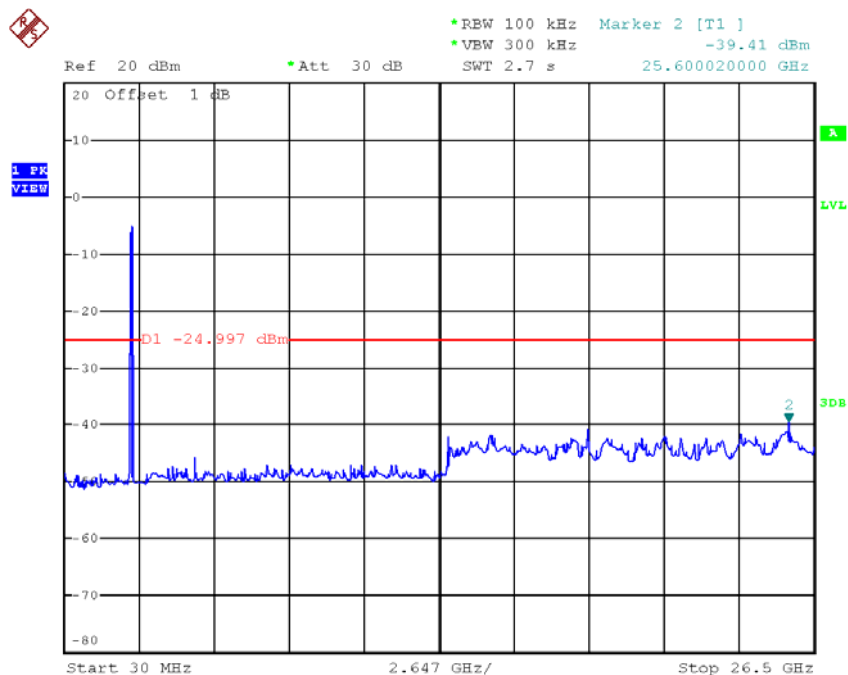
Date: 21.JUN.2016 11:45:22

TX G mode CH11



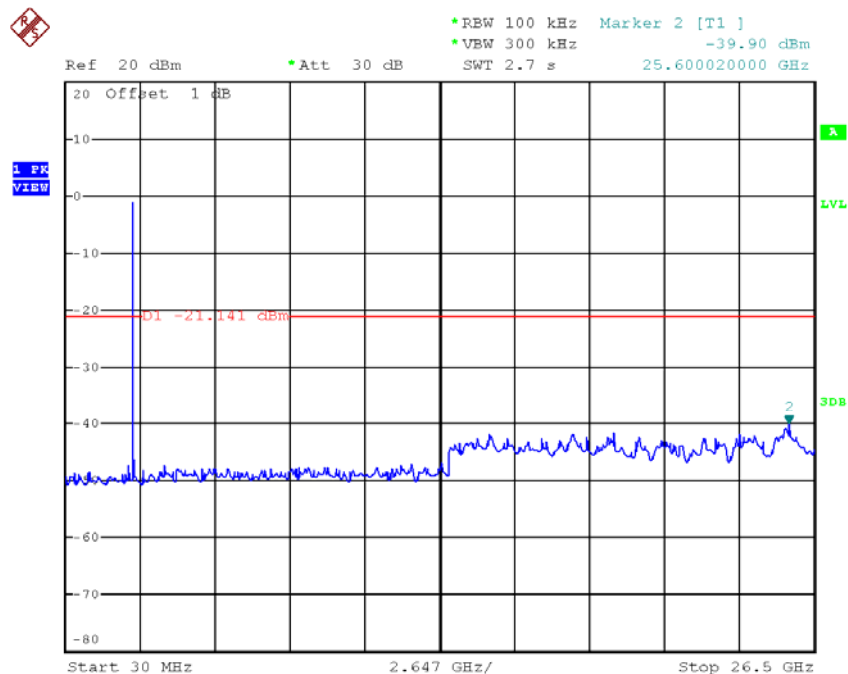
Date: 21.JUN.2016 11:48:44

TX G mode CH01 (10 Harmonic of the frequency)



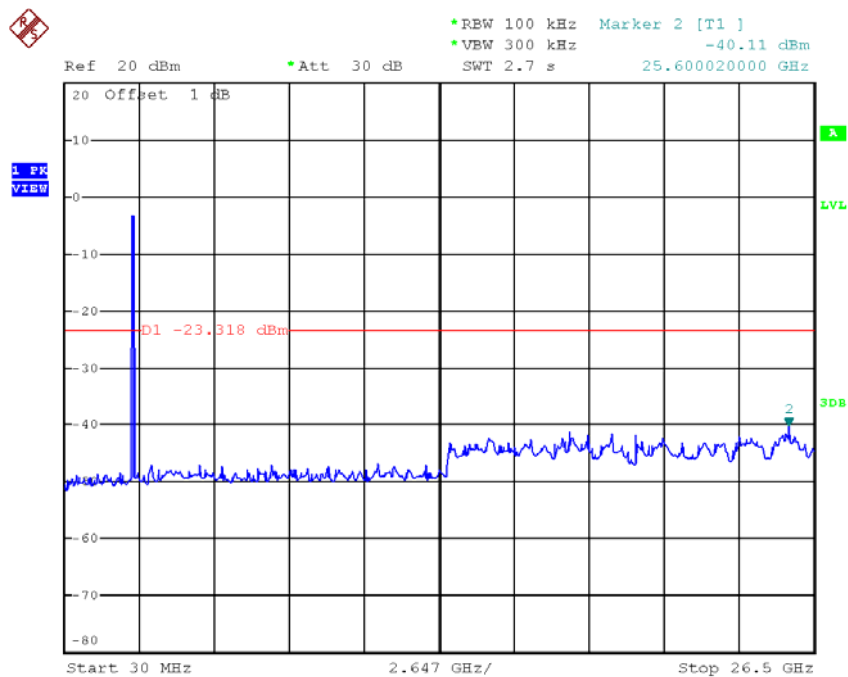
Date: 21.JUN.2016 11:45:15

TX G mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:46:44

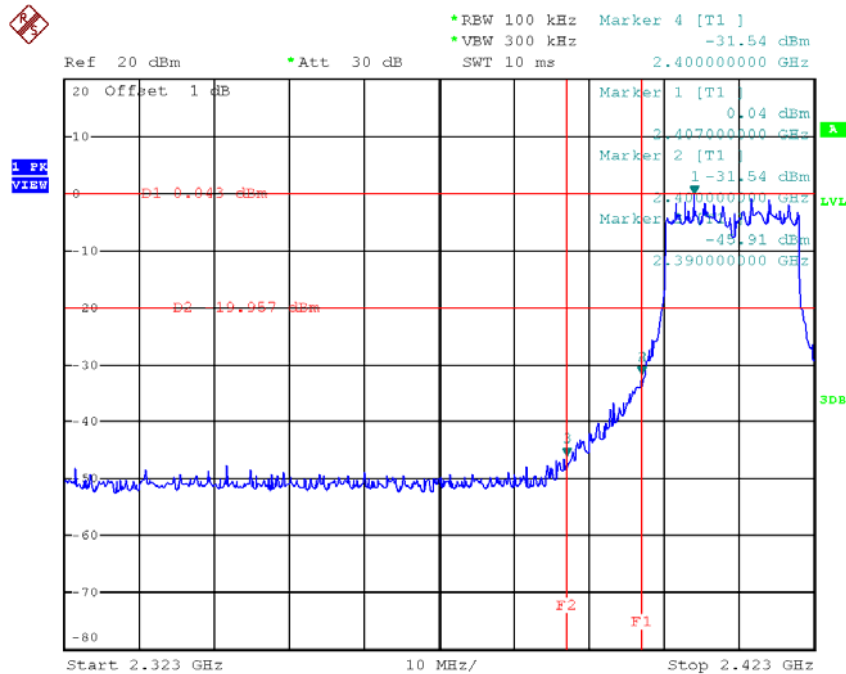
TX G mode CH11 (10 Harmonic of the frequency)



Date: 21.JUN.2016 12:01:29

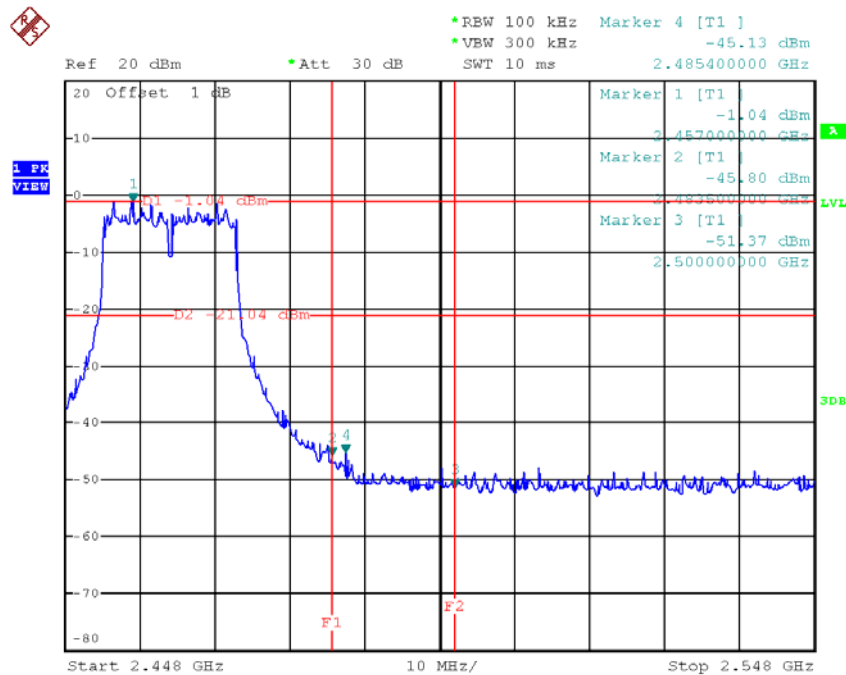
Test Mode : TX N-20M Mode_ANT 1

TX HT20 mode CH01



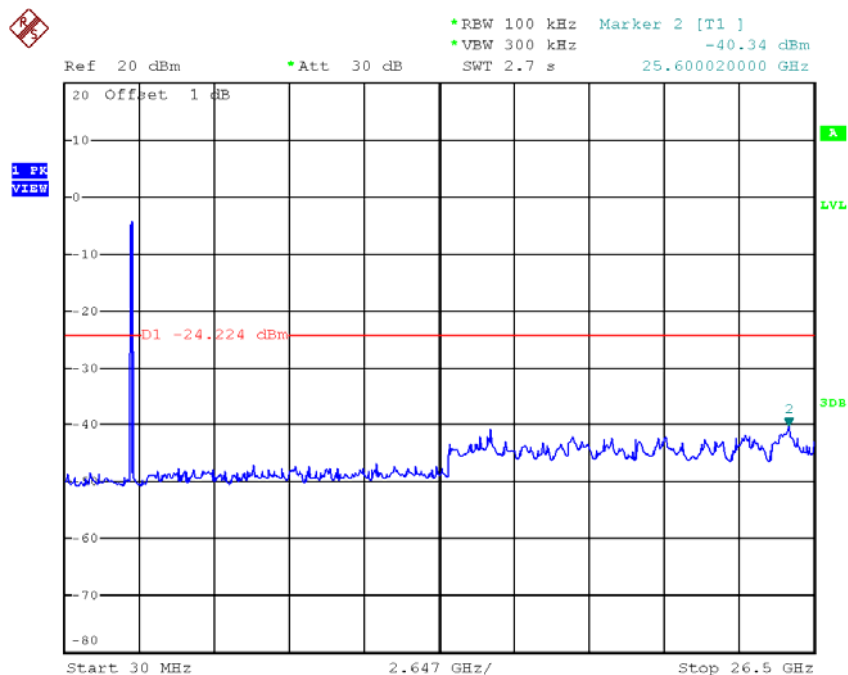
Date: 21.JUN.2016 11:50:01

TX HT20 mode CH11



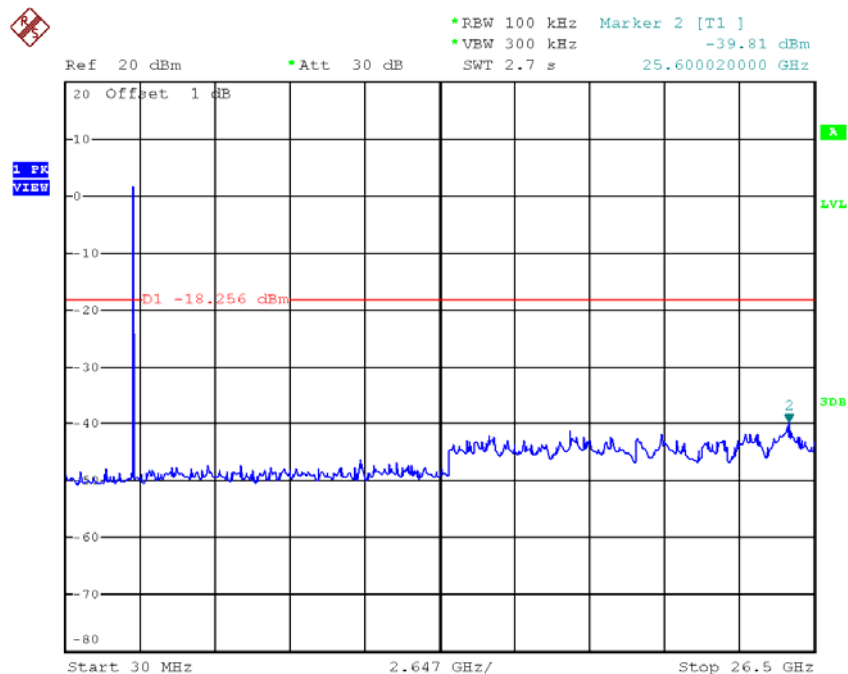
Date: 21.JUN.2016 11:53:53

TX HT20 mode CH01 (10 Harmonic of the frequency)



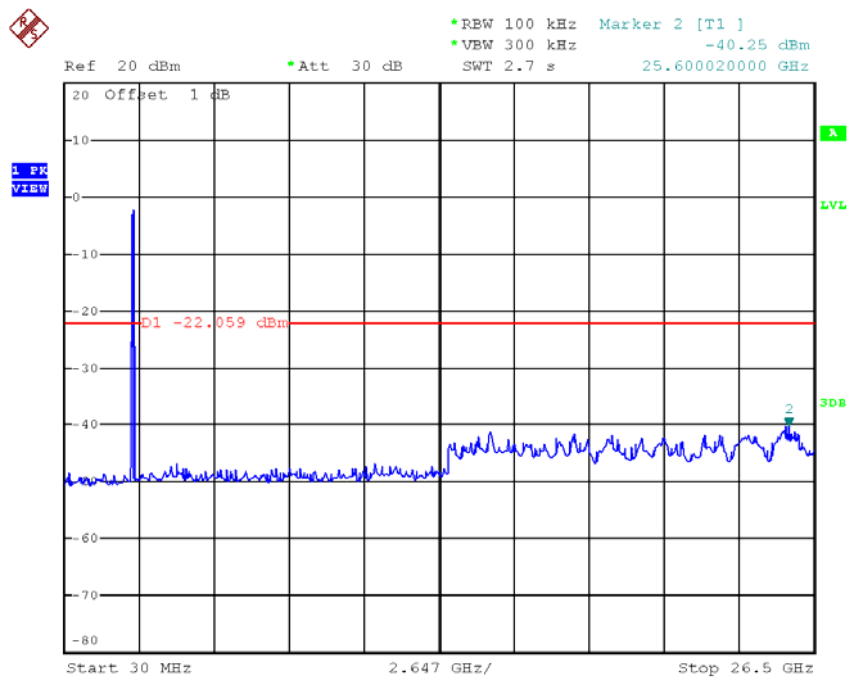
Date: 21.JUN.2016 11:49:54

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:52:06

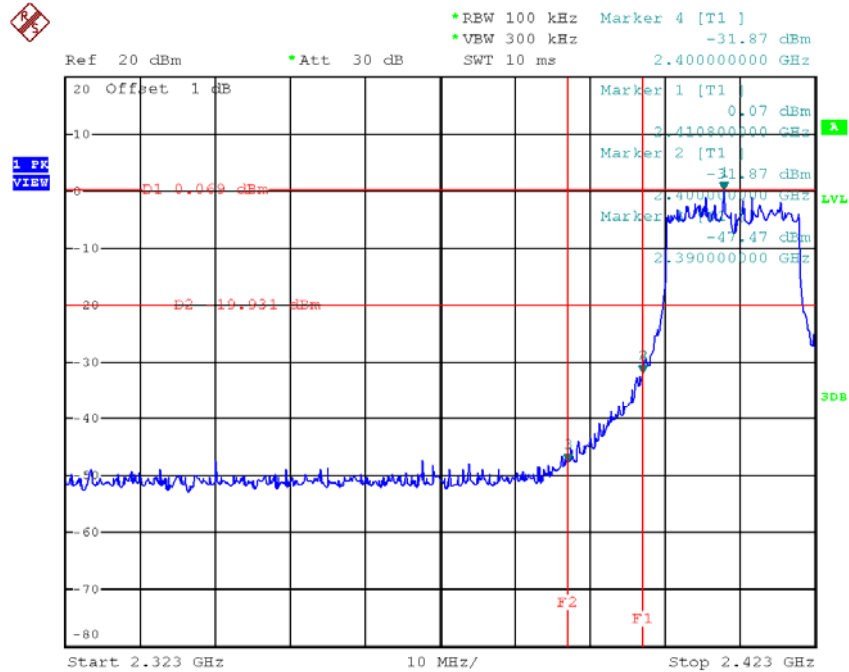
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:53:46

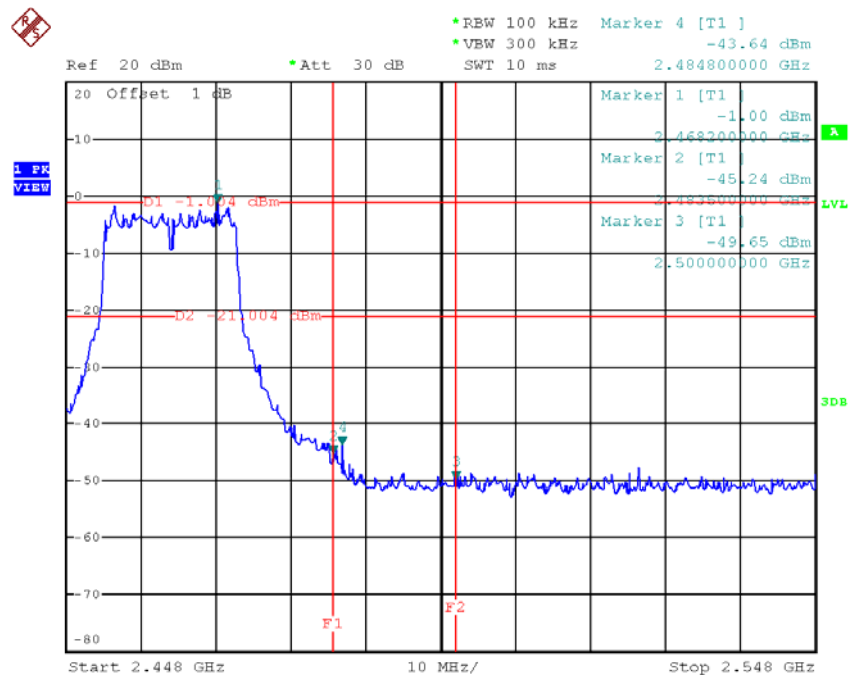
Test Mode : TX N-20M Mode_ANT 2

TX HT20 mode CH01



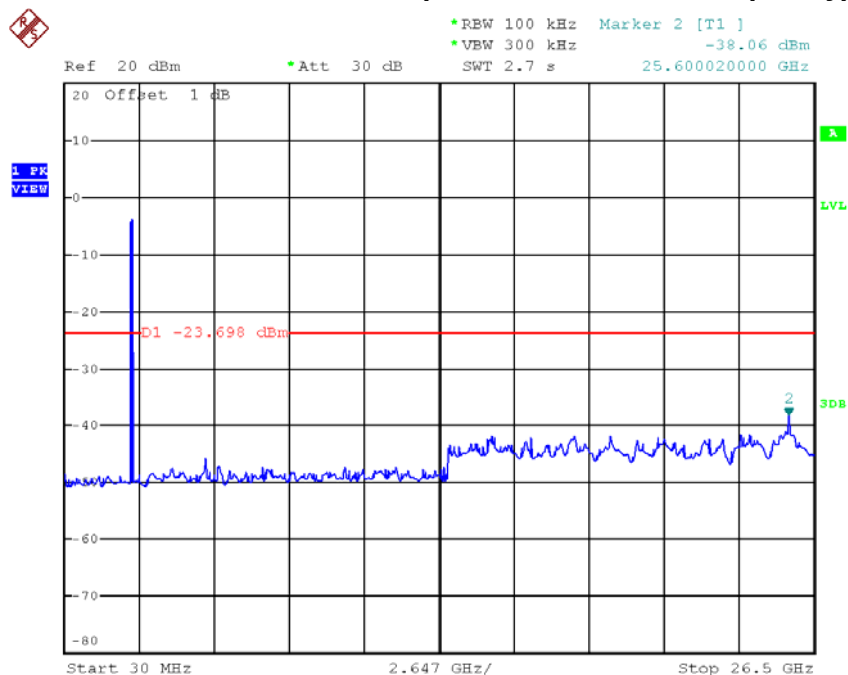
Date: 21.JUN.2016 11:56:11

TX HT20 mode CH11



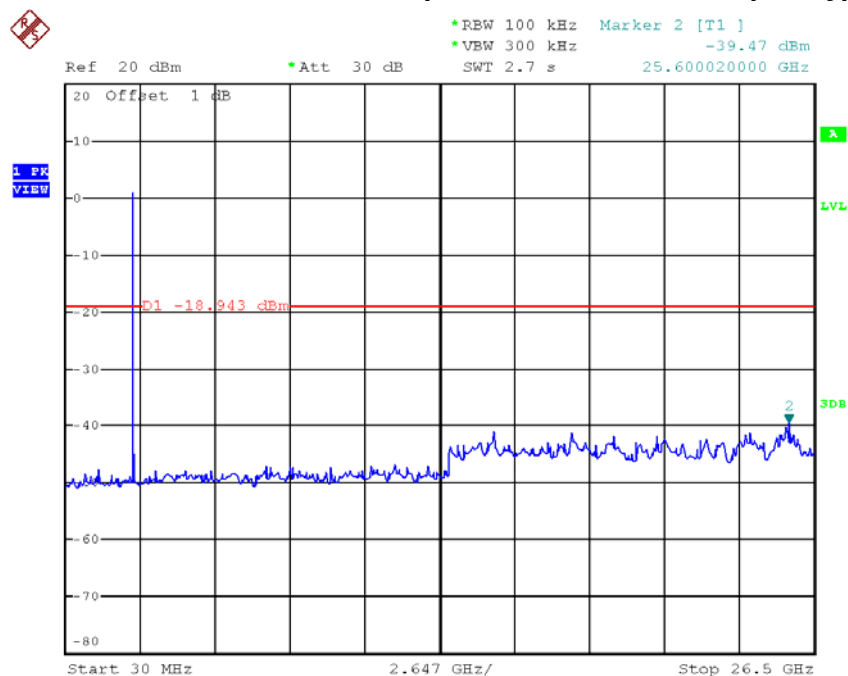
Date: 21.JUN.2016 12:01:36

TX HT20 mode CH01 (10 Harmonic of the frequency)



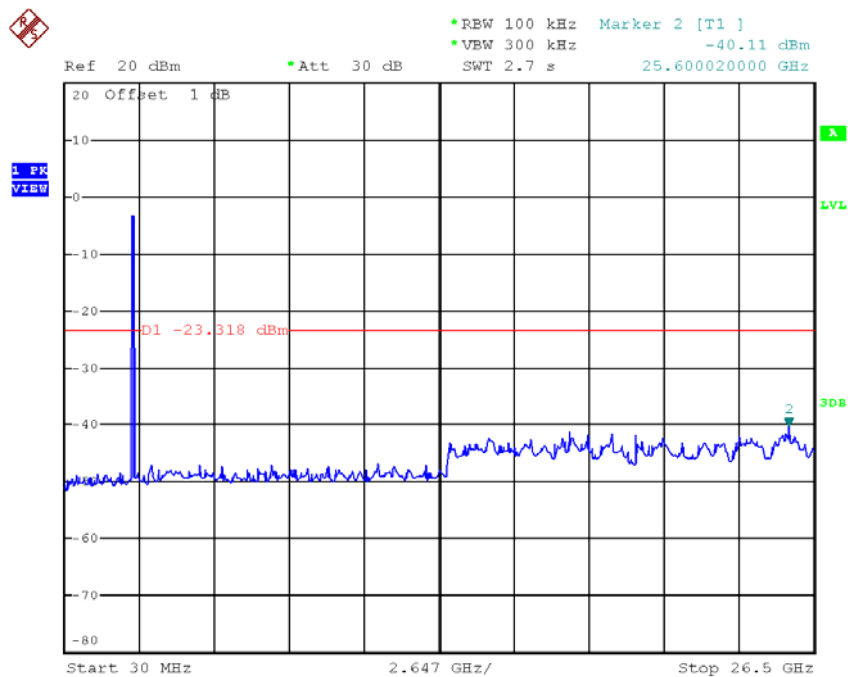
Date: 21.JUN.2016 11:56:04

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 11:57:19

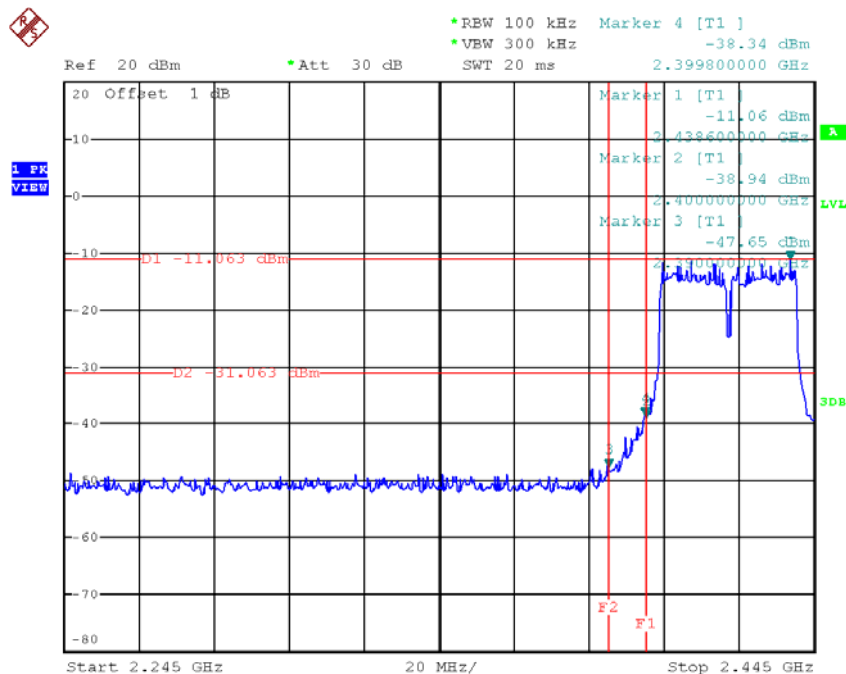
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 21.JUN.2016 12:01:29

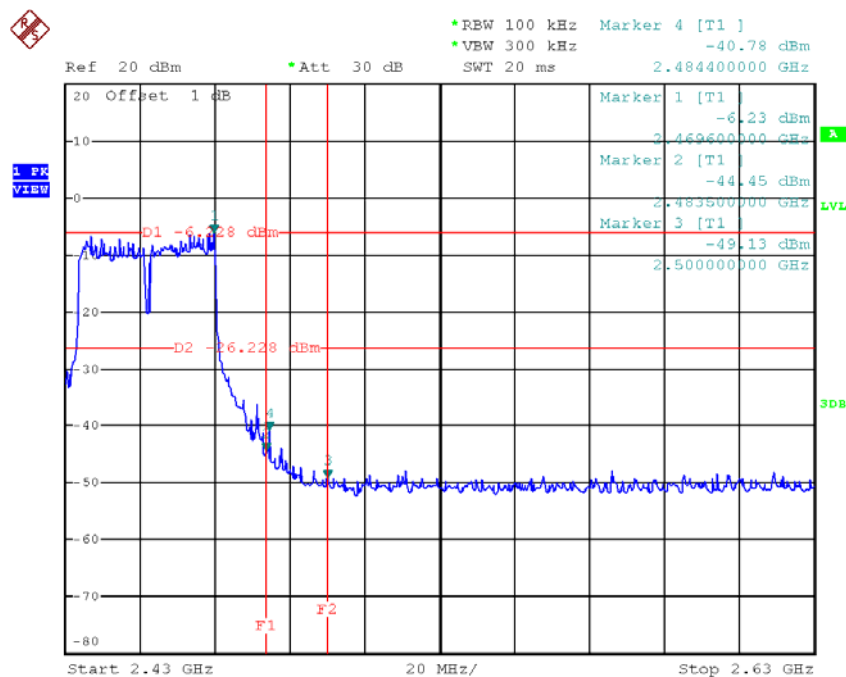
Test Mode : TX N-40M Mode_ANT 1

TX HT40 mode CH03



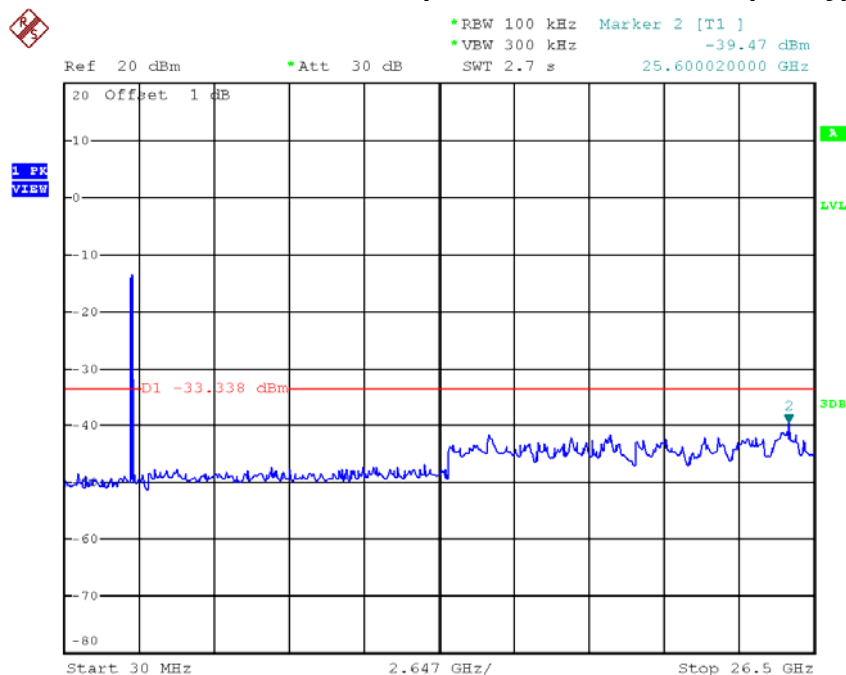
Date: 21.JUN.2016 12:04:40

TX HT40 mode CH09



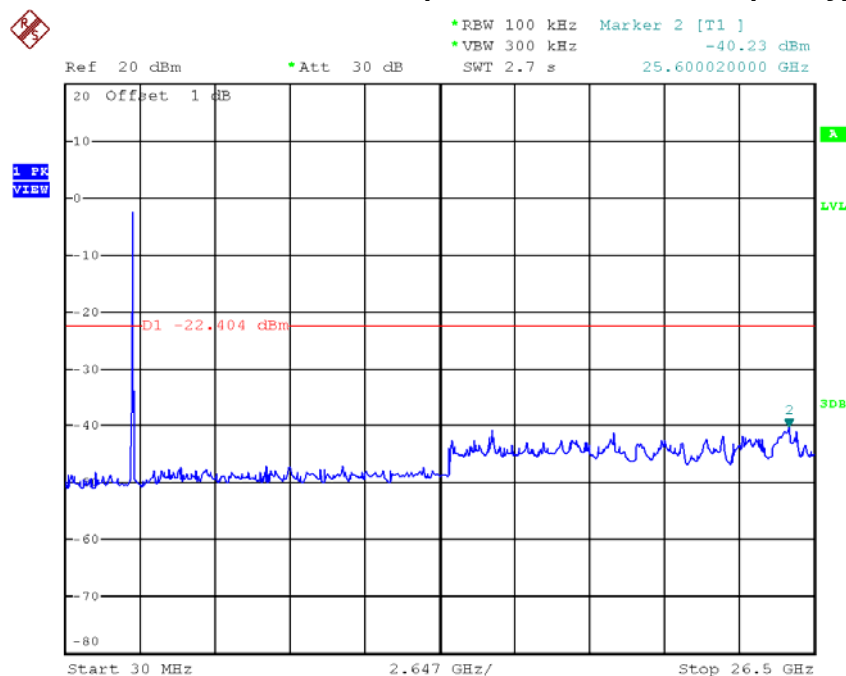
Date: 21.JUN.2016 12:10:09

TX HT40 mode CH03 (10 Harmonic of the frequency)



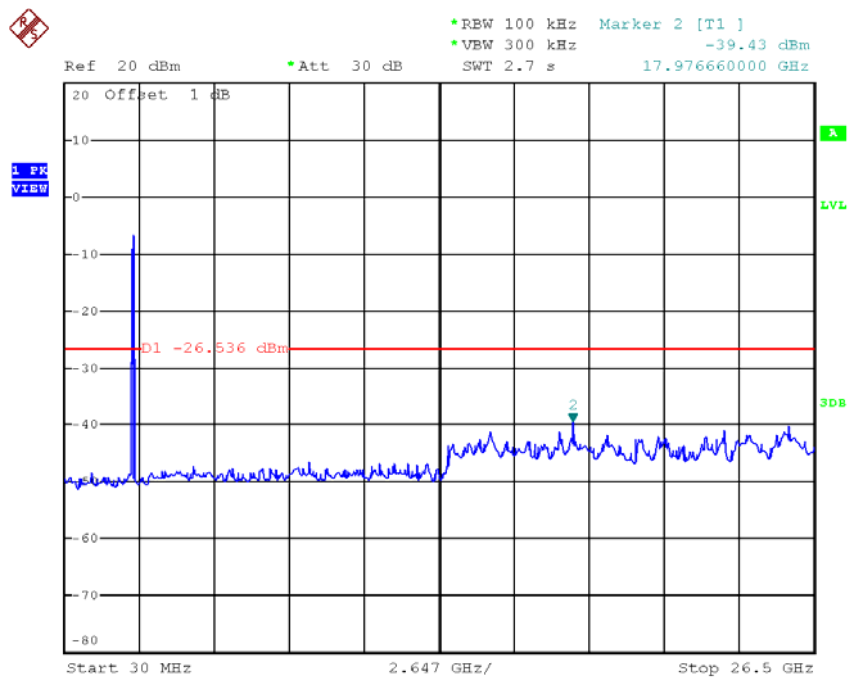
Date: 21.JUN.2016 12:04:16

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 12:07:35

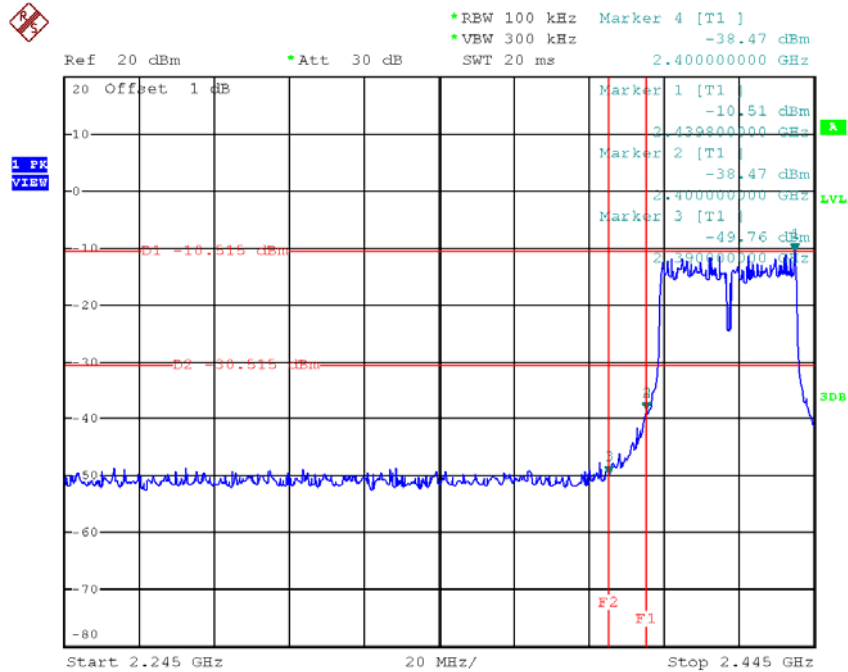
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 21.JUN.2016 12:09:45

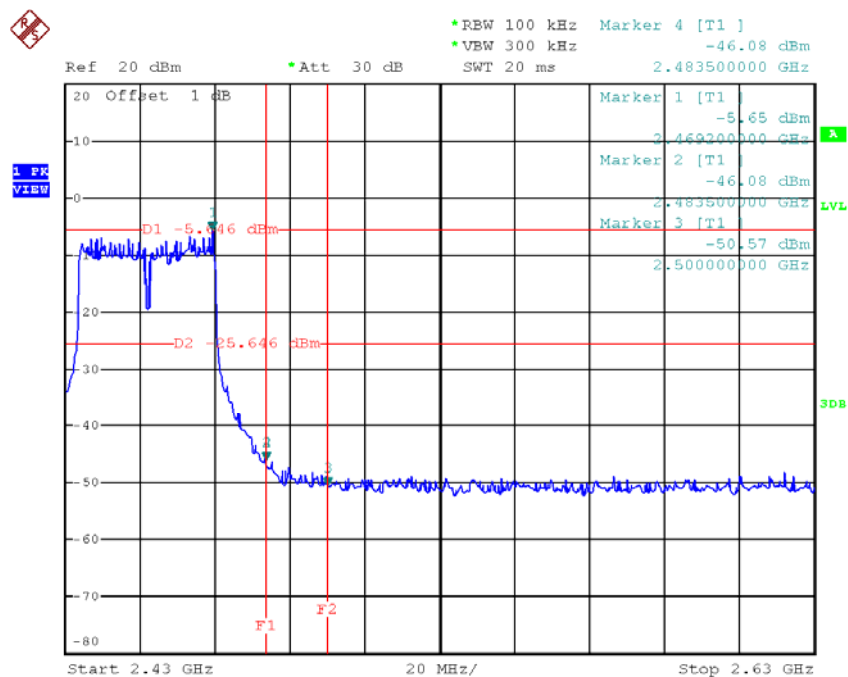
Test Mode : TX N-40M Mode_ANT 2

TX HT40 mode CH03



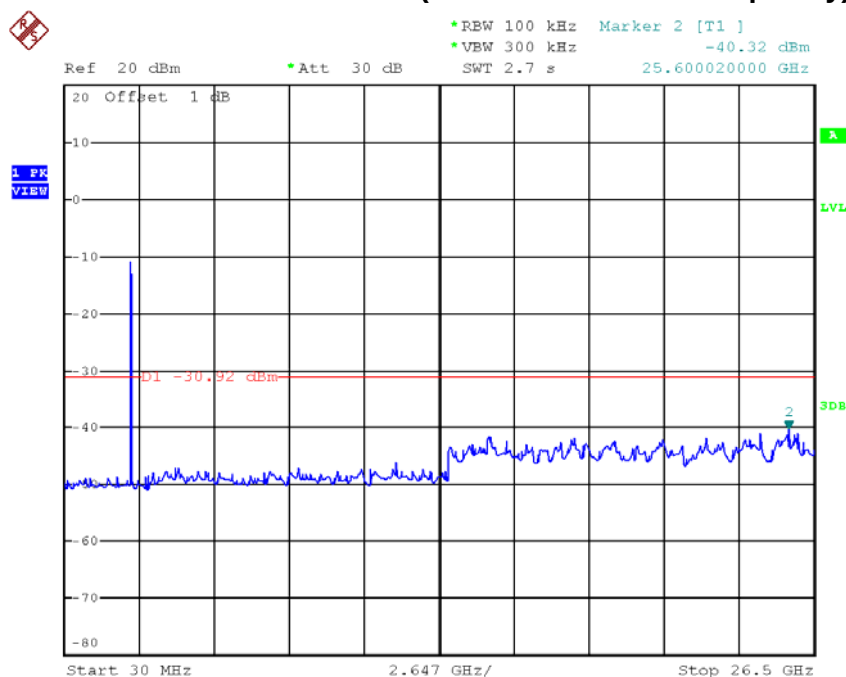
Date: 21.JUN.2016 12:13:19

TX HT40 mode CH09



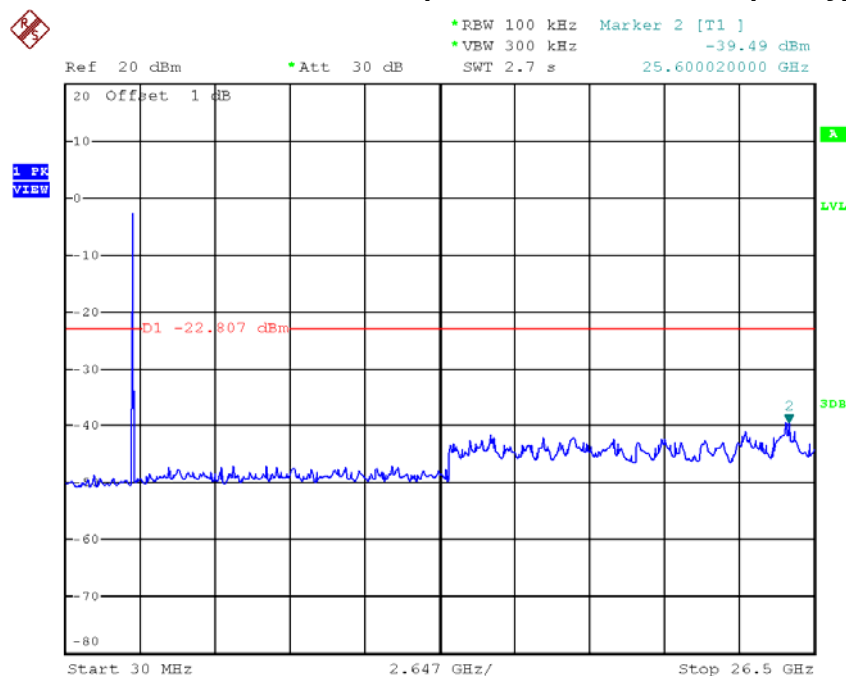
Date: 21.JUN.2016 12:18:25

TX HT40 mode CH03 (10 Harmonic of the frequency)



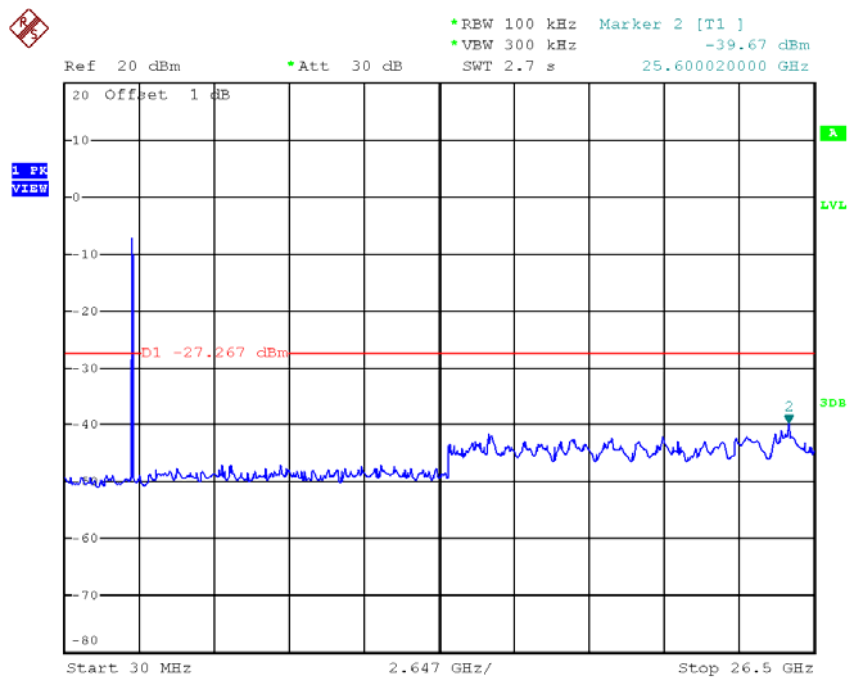
Date: 21.JUN.2016 12:13:12

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 21.JUN.2016 12:14:55

TX HT40 mode CH09 (10 Harmonic of the frequency)



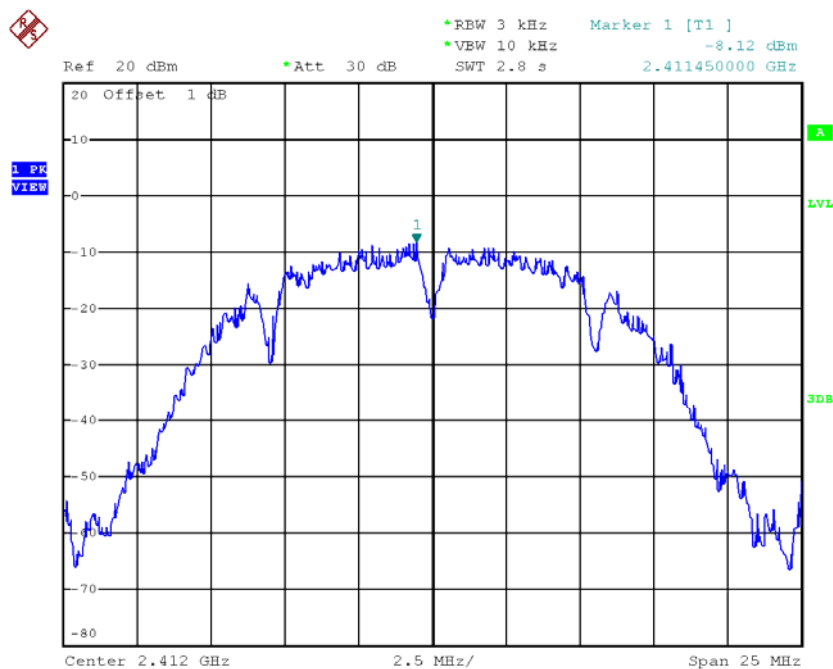
Date: 21.JUN.2016 12:18:19

ATTACHMENT H - POWER SPECTRAL DENSITY

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

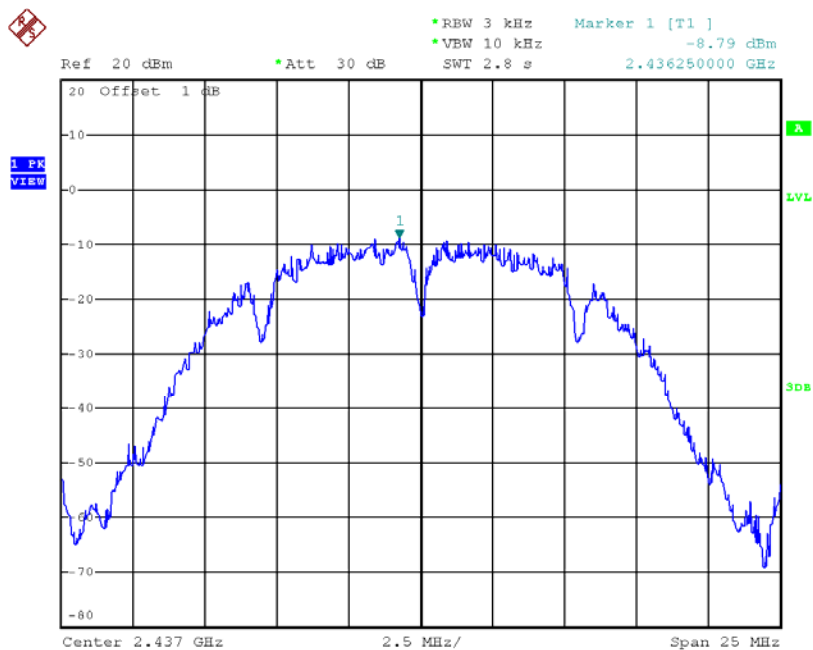
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.12	0.15	8.00	Complies
2437	-8.79	0.13	8.00	Complies
2462	-9.17	0.12	8.00	Complies

TX CH01



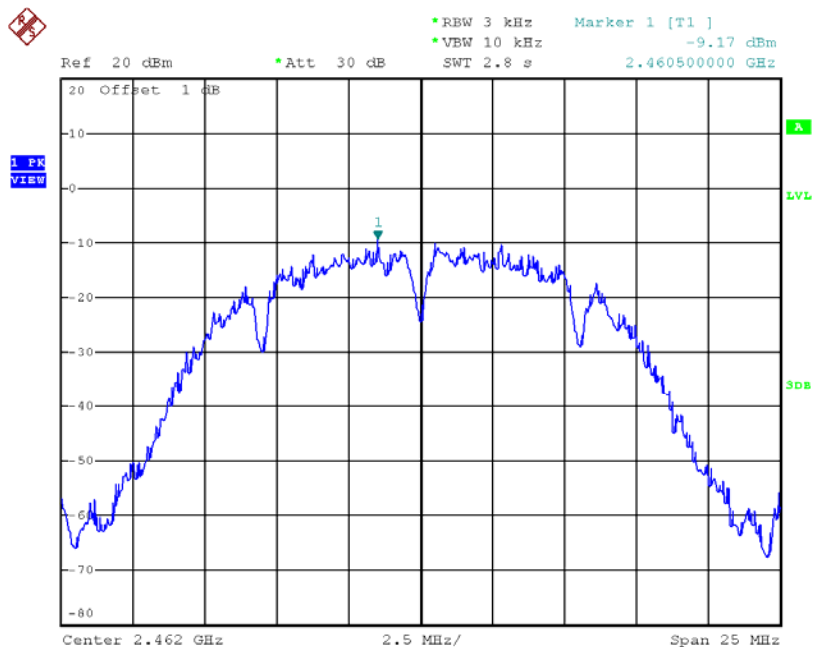
Date: 21.JUN.2016 11:25:19

TX CH06



Date: 21.JUN.2016 11:26:55

TX CH11

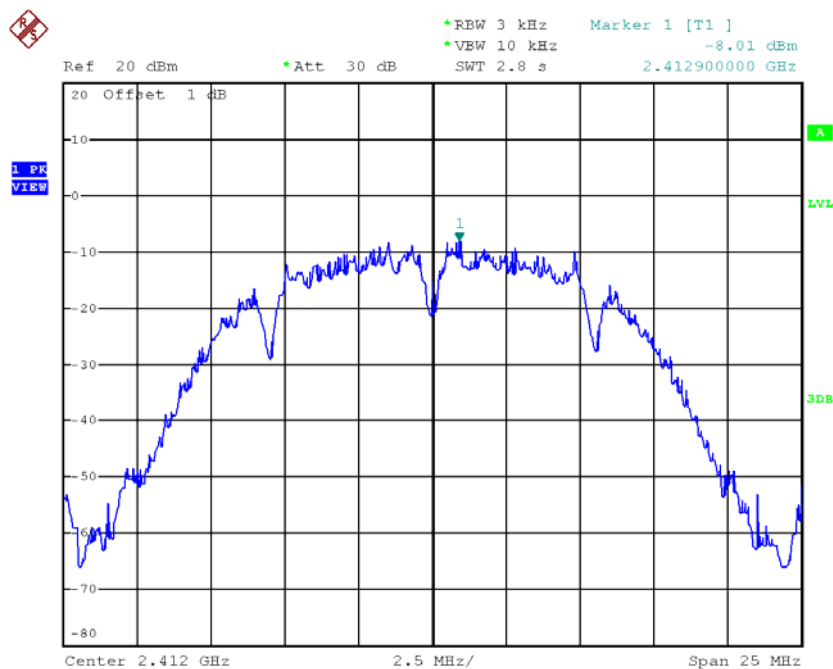


Date: 21.JUN.2016 11:30:04

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

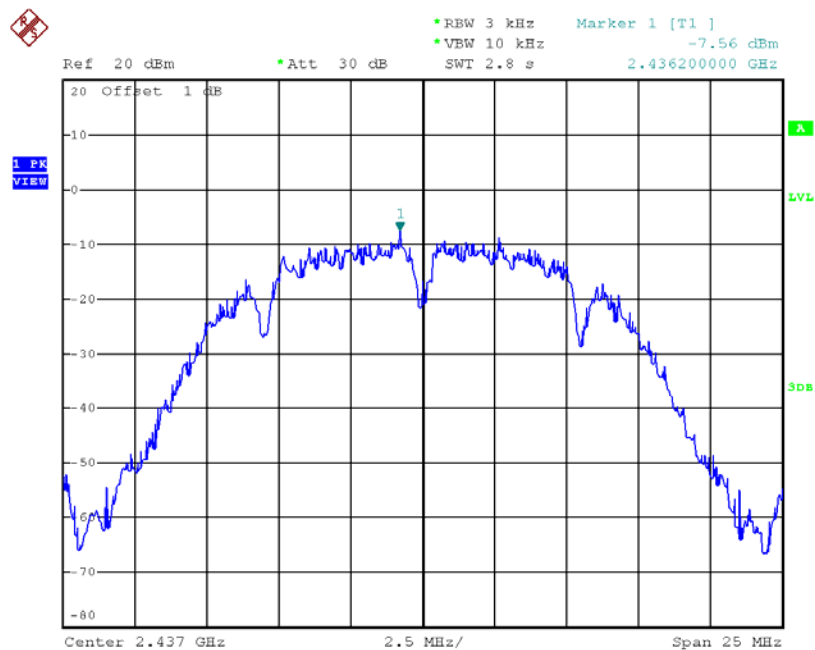
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.01	0.16	8.00	Complies
2437	-7.56	0.18	8.00	Complies
2462	-9.31	0.12	8.00	Complies

TX CH01



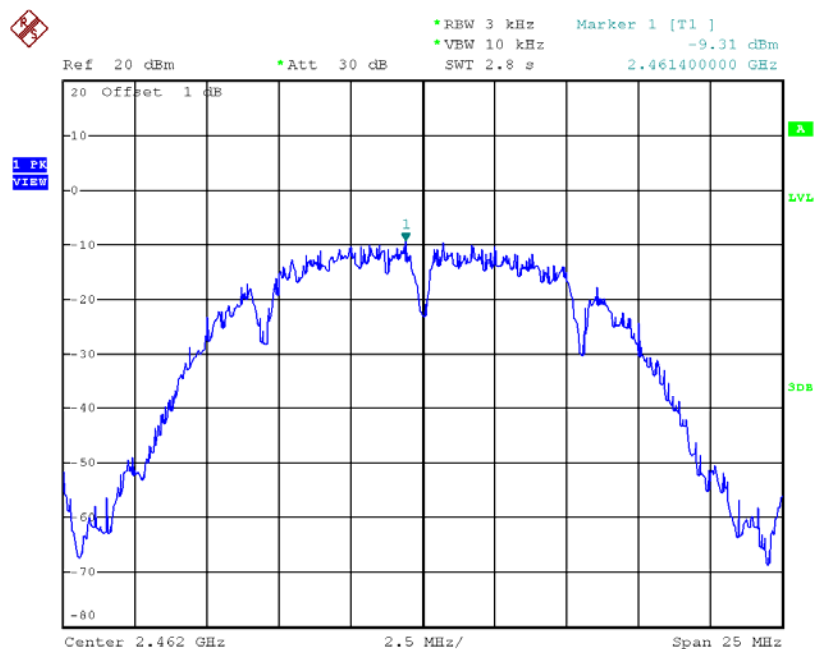
Date: 21.JUN.2016 12:27:31

TX CH06



Date: 21.JUN.2016 11:35:11

TX CH11



Date: 21.JUN.2016 11:36:48

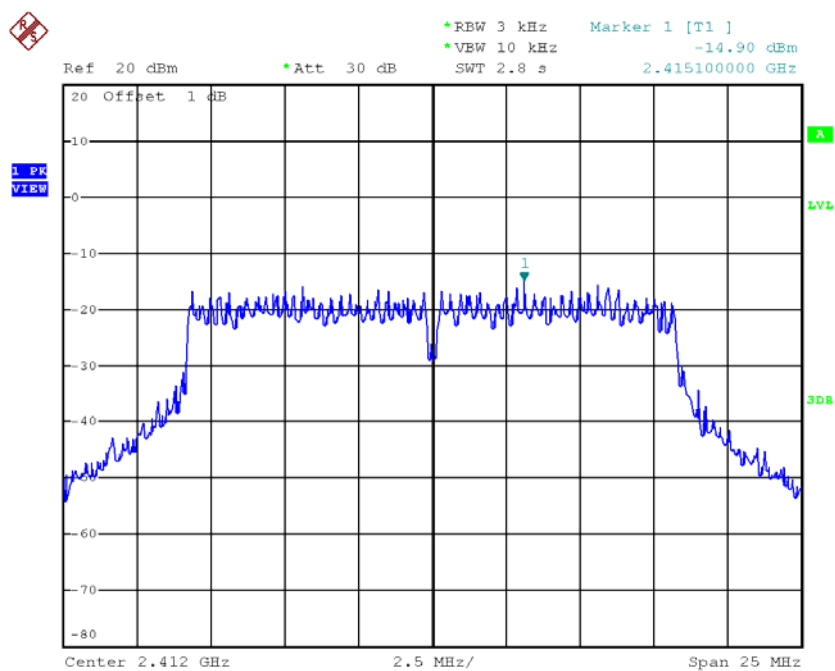
Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-5.05	0.31	8.00	Complies
2437	-5.12	0.31	8.00	Complies
2462	-6.23	0.24	8.00	Complies

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

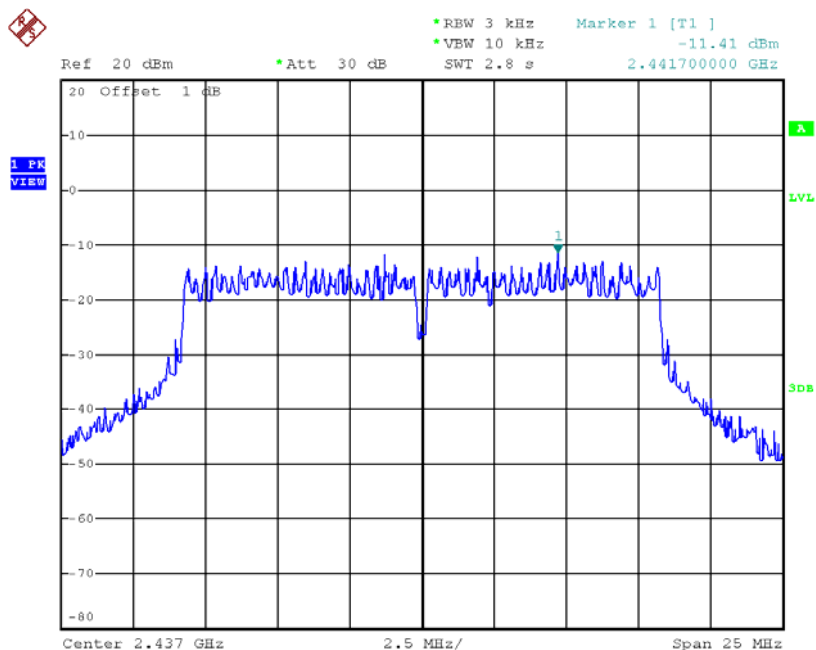
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.90	0.03	8.00	Complies
2437	-11.41	0.07	8.00	Complies
2462	-15.51	0.03	8.00	Complies

TX CH01



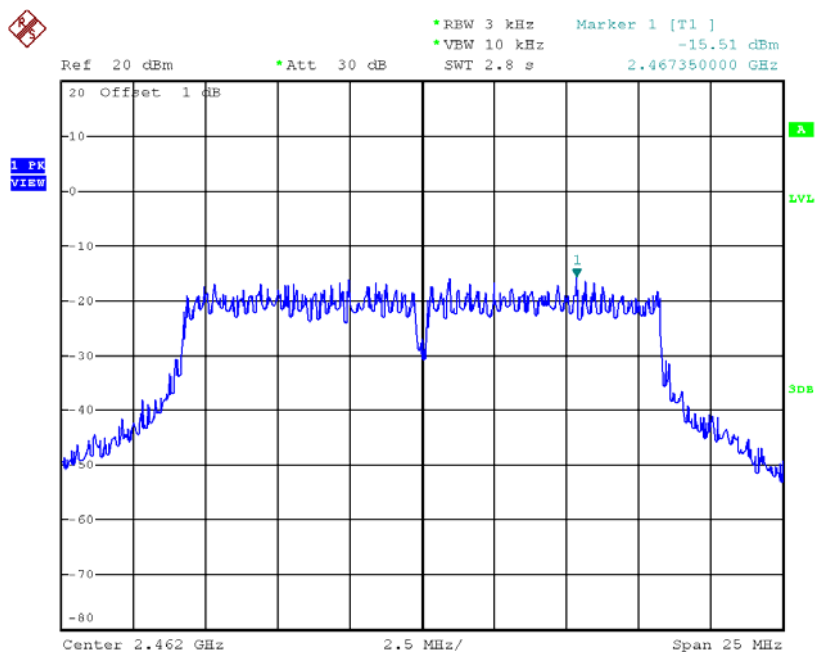
Date: 21.JUN.2016 11:40:09

TX CH06



Date: 21.JUN.2016 11:41:26

TX CH11

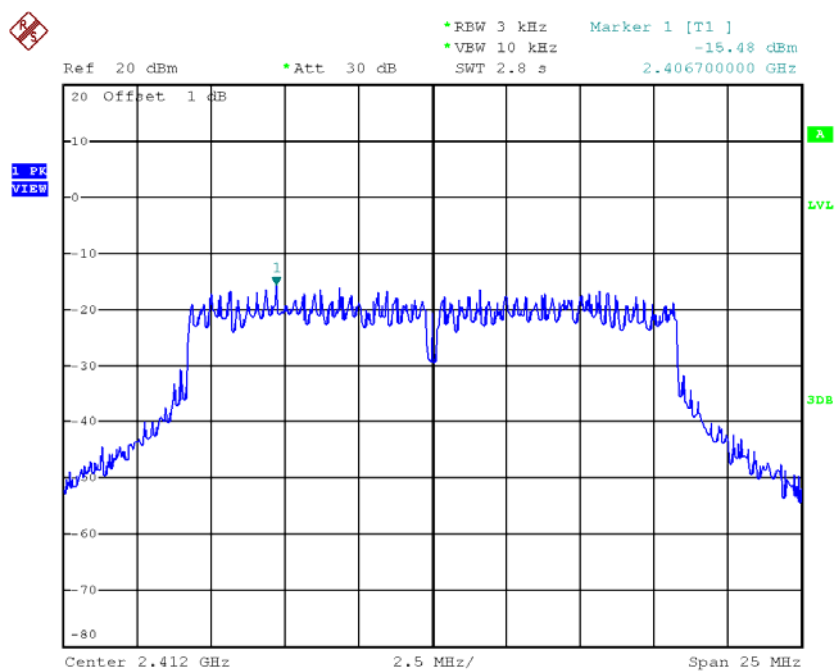


Date: 21.JUN.2016 11:43:05

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

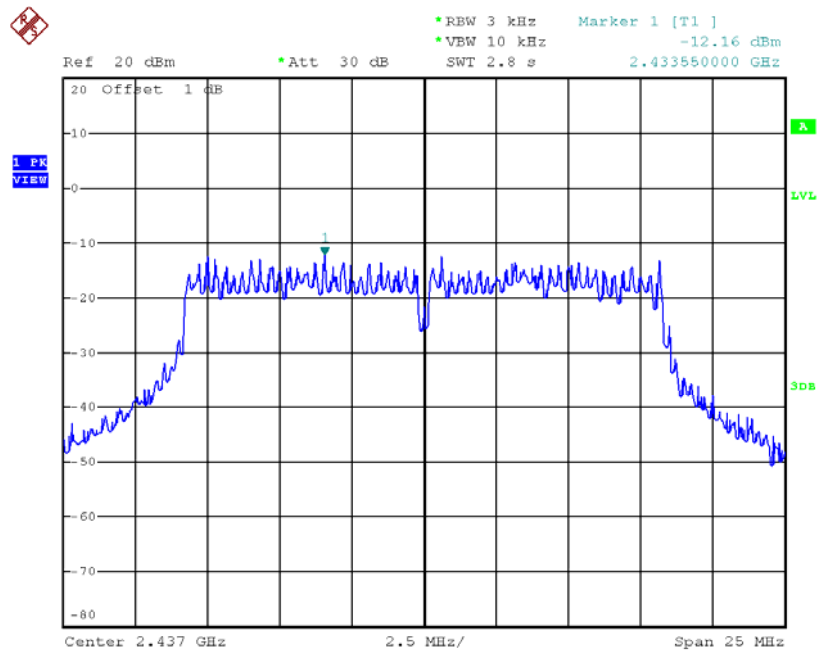
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.48	0.03	8.00	Complies
2437	-12.16	0.06	8.00	Complies
2462	-15.59	0.03	8.00	Complies

TX CH01



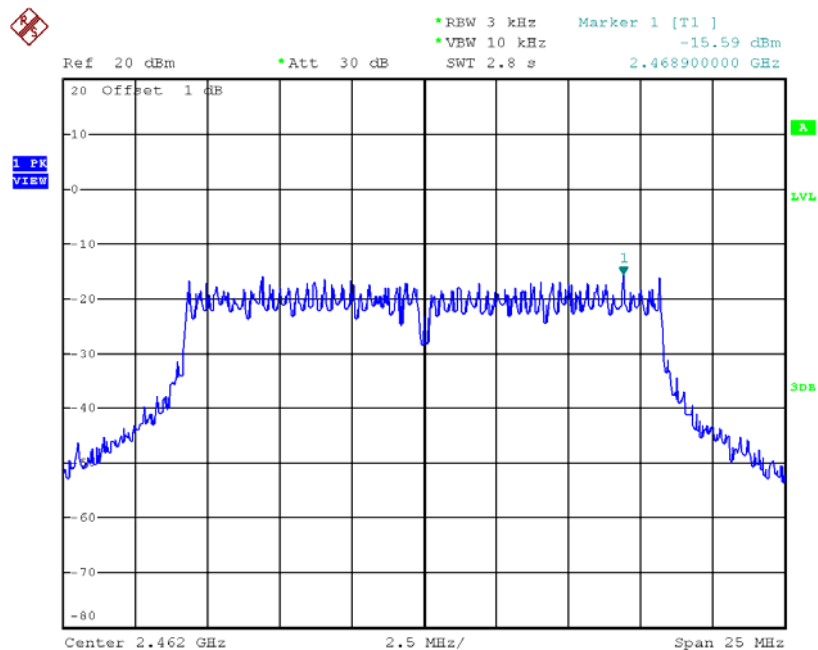
Date: 21.JUN.2016 11:45:31

TX CH06



Date: 21.JUN.2016 11:46:53

TX CH11



Date: 21.JUN.2016 11:48:53

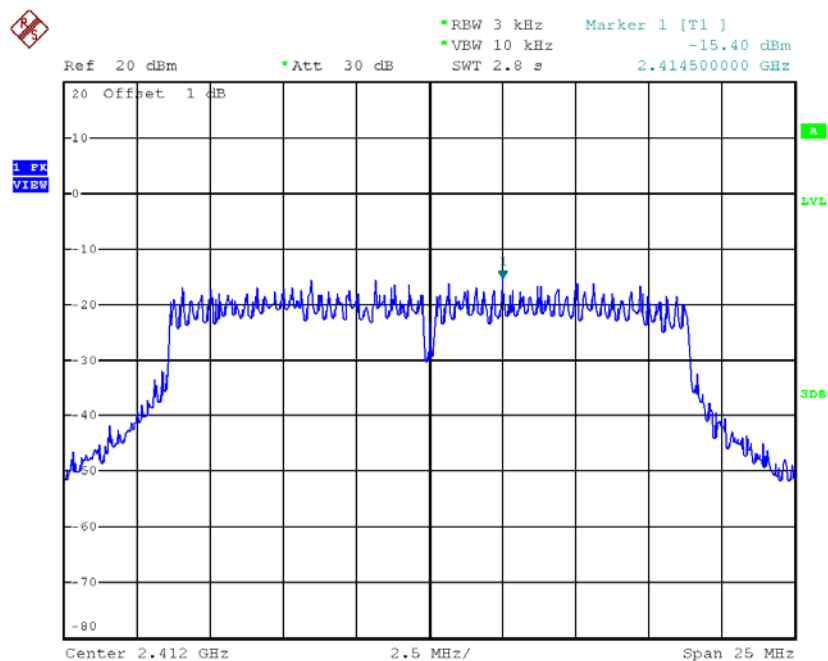
Test Mode :TX G Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.17	0.06	8.00	Complies
2437	-8.76	0.13	8.00	Complies
2462	-12.54	0.06	8.00	Complies

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

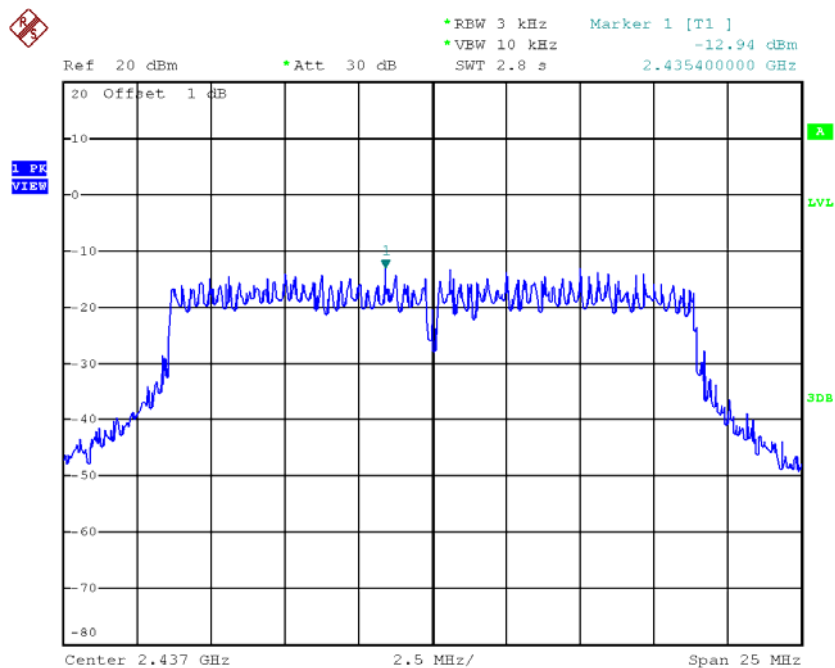
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.40	0.03	8.00	Complies
2437	-12.94	0.05	8.00	Complies
2462	-15.23	0.03	8.00	Complies

TX CH01



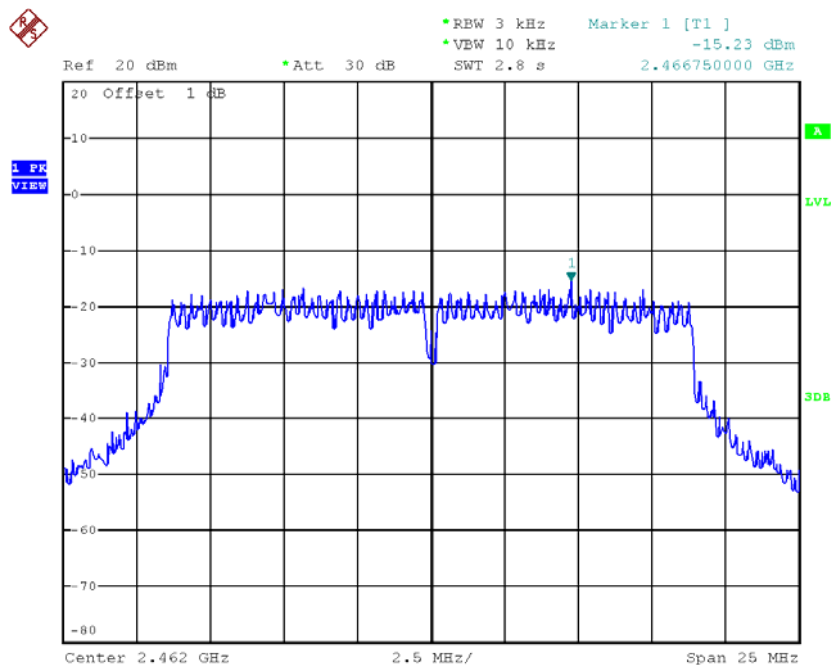
Date: 21.JUN.2016 11:50:09

TX CH06



Date: 21.JUN.2016 11:52:14

TX CH11

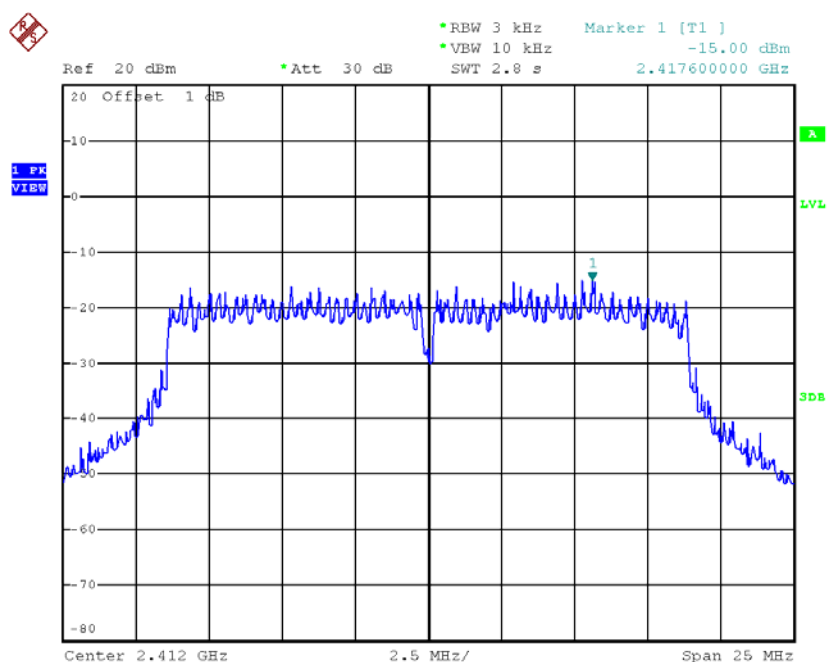


Date: 21.JUN.2016 11:54:01

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

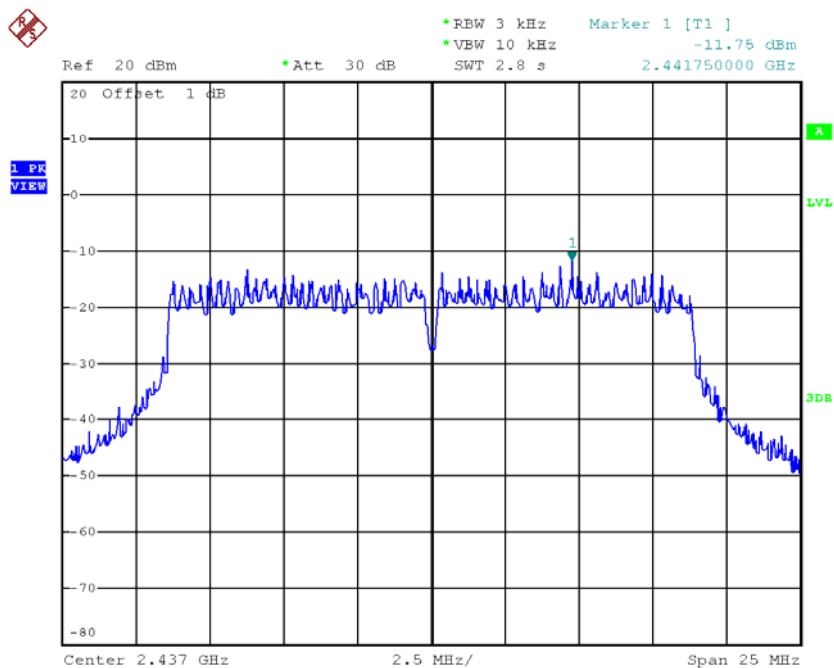
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.00	0.03	8.00	Complies
2437	-11.75	0.07	8.00	Complies
2462	-15.83	0.03	8.00	Complies

TX CH01



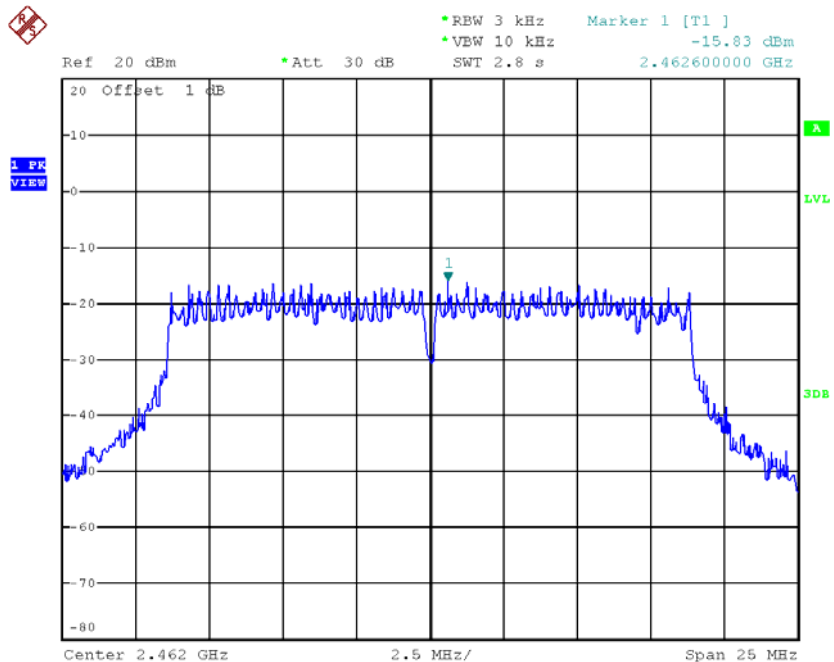
Date: 21.JUN.2016 11:56:20

TX CH06



Date: 21.JUN.2016 11:57:28

TX CH11



Date: 21.JUN.2016 12:01:44

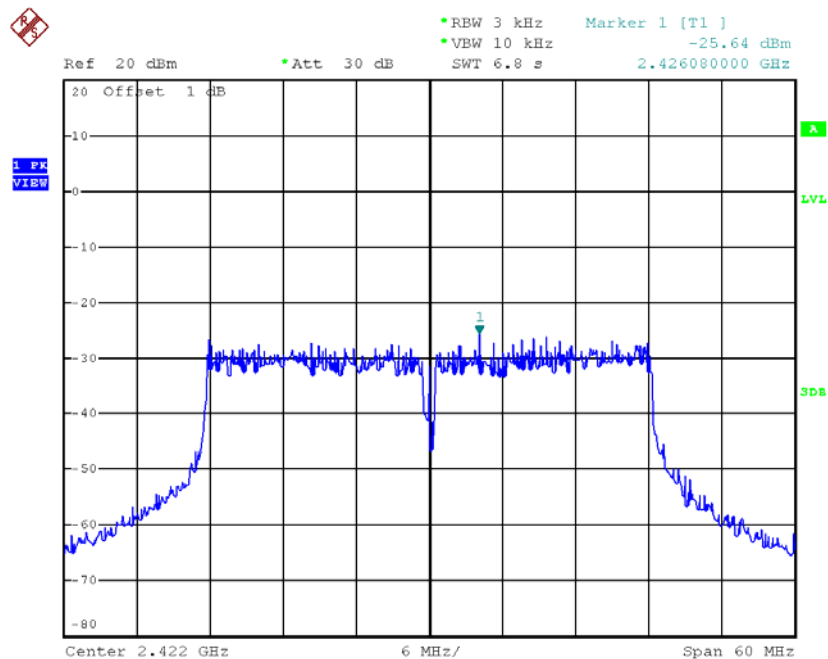
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.19	0.06	8.00	Complies
2437	-9.29	0.12	8.00	Complies
2462	-12.51	0.06	8.00	Complies

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

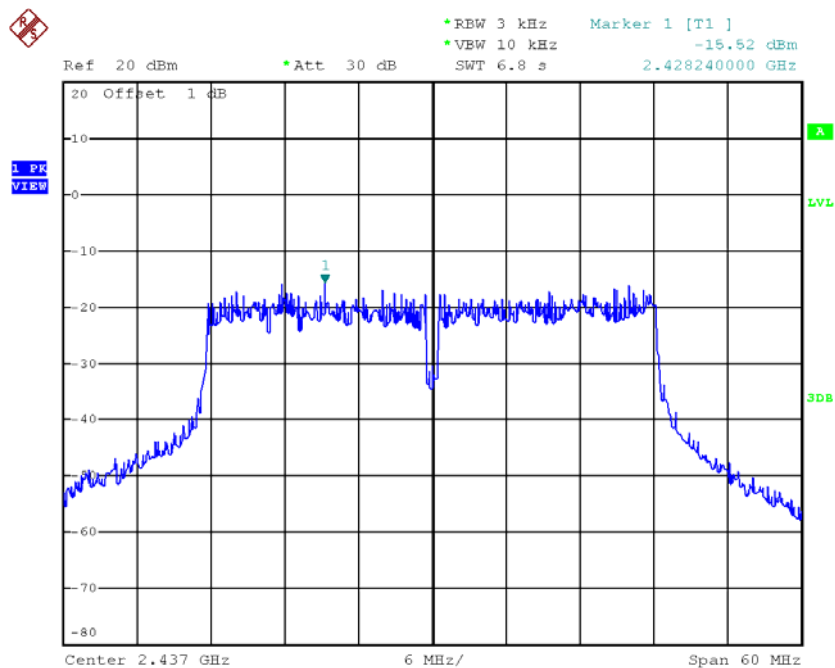
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-25.64	0.00	8.00	Complies
2437	-15.52	0.03	8.00	Complies
2452	-20.58	0.01	8.00	Complies

TX CH03



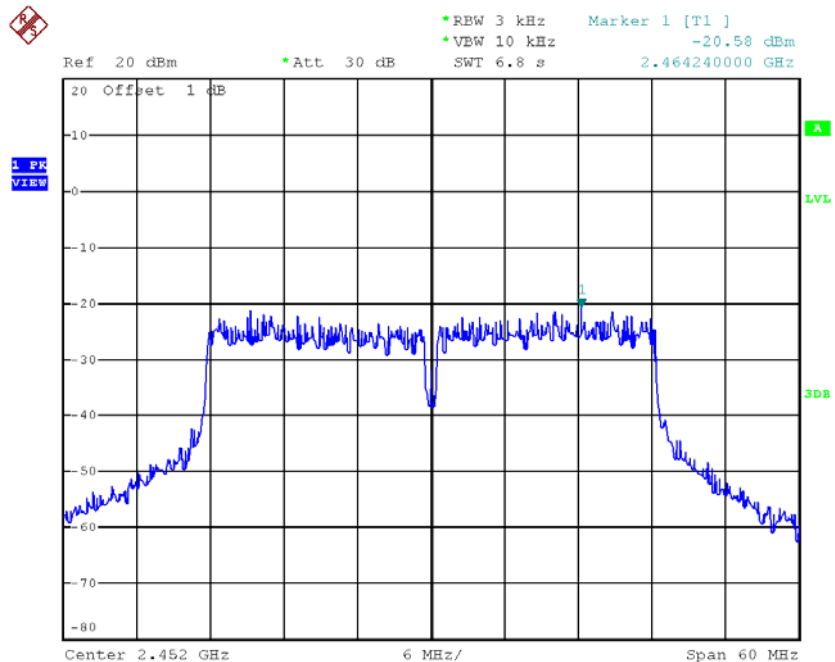
Date: 21.JUN.2016 12:04:51

TX CH06



Date: 21.JUN.2016 12:07:47

TX CH09

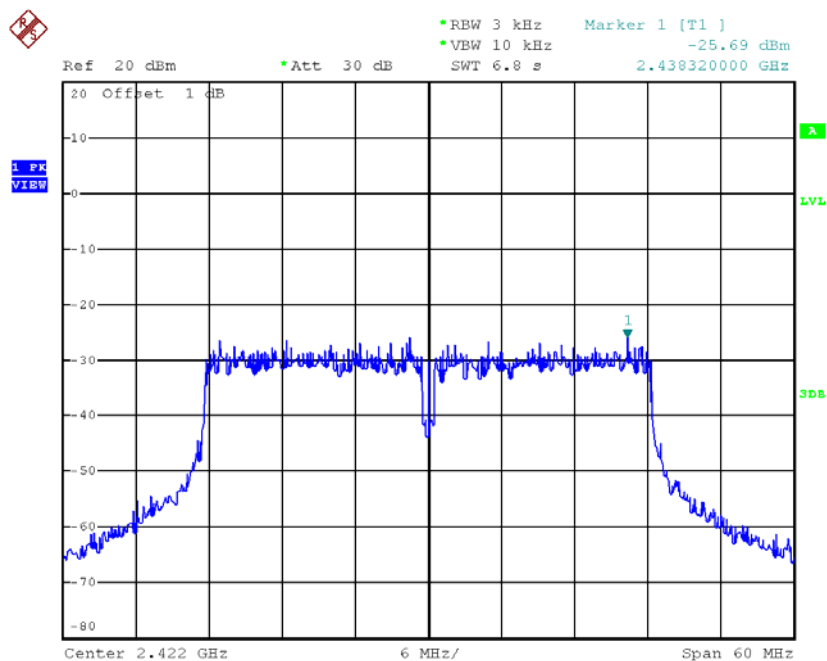


Date: 21.JUN.2016 12:10:21

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

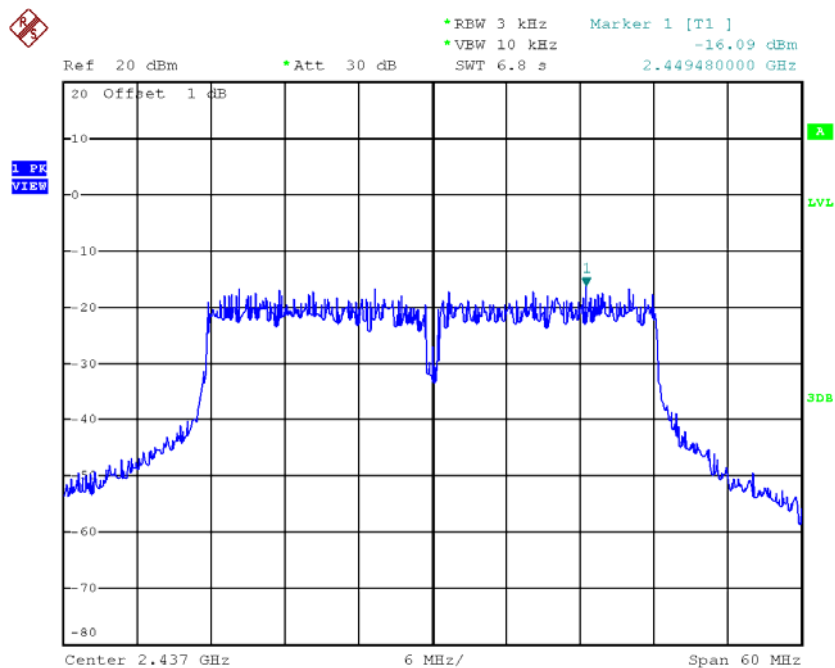
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-25.69	0.00	8.00	Complies
2437	-16.09	0.02	8.00	Complies
2452	-21.01	0.01	8.00	Complies

TX CH03



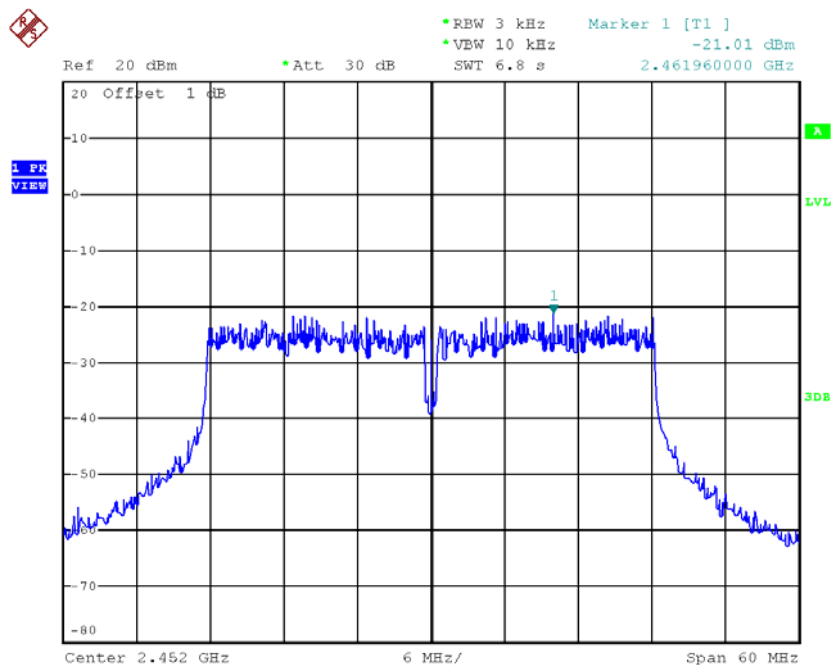
Date: 21.JUN.2016 12:13:31

TX CH06



Date: 21.JUN.2016 12:15:07

TX CH09



Date: 21.JUN.2016 12:18:37

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-22.65	0.01	8.00	Complies
2437	-12.79	0.05	8.00	Complies
2452	-17.78	0.02	8.00	Complies