



Neutron Engineering Inc.

FCC&IC Radio Test Report

FCC ID: SIB-SNB02-NV7A

IC: 6719D-SNB02NV7A

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

Issued Date : Mar. 26, 2014
Project No. : 1403C085
Equipment : nabi Tablet
Model Name : SNB02-NV7A
Applicant : Foxconn International Inc.
Address : No.2,Ziyou St.,Tucheng Dist., New Taipei City 236,Taiwan

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Mar. 13, 2014
Date of Test: Mar. 13, 2014 ~ Mar. 25, 2014

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, Dong Guan, China.

TEL: 0769-8318-3000

FAX: 0769-8319-6000



Declaration

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

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FICP-2-1403C085	Original Issue.	Mar. 26, 2014



1. CERTIFICATION

Equipment : nabi Tablet
Brand Name : nabi
Model Name : SNB02-NV7A
Applicant : Foxconn International Inc.
Manufacturer : FUHU INC
Address : 909 N SEPULVEDA BLVD STE 540 EL SEGUNDO, CA 90245-2733
Factory : Hongfujin precision industry(wuhan) Co.,Ltd.
Address : 1#,2nd GUANG GU ROAD,DONGHU NEW TECHNOLOGY DEVELOPMENT
DISTRICT,WUHAN CITY,HUBEI PROVINCE,CHINA
Date of Test : Mar. 13, 2014 ~ Mar. 25, 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-2-1403C085) 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 expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

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

B. Radiated Measurement :

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	nabi Tablet	
Brand Name	nabi	
Model Name	SNB02-NV7A	
Model Difference	A model for multiple appearance, only differ in the color.	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 150 Mbps
	Output Power (Max.)	802.11b: 17.54dBm 802.11g: 20.56dBm 802.11n(20MHz): 20.34dBm 802.11n(40MHz): 19.71dBm
Power Source	#1 DC voltage supplied from AC adapter. Brand / Model: Chicony / W12-010N3A #2 Supplied from rechargeable Li-ion polymer battery. Brand / Model: McNair / MLP4566111	
Power Rating	#1 I/P: AC 100-240V~50/60Hz 0.3A O/P: DC 5V 2A #2 DC 3.7V 4350mAh 16.10Wh	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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

2.

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

3 Table for Filed Antenna

Group 1

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	晶鈦	AH-JT-0214N0304	PIFA	N/A	2.88

Group 2

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Cortec	NB0309-N2S	PIFA	N/A	1.70

Note: Group 1 and Group 2 are same type antenna, Group 1 is recorded as the worst case since which gain is higher than Group 2.

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

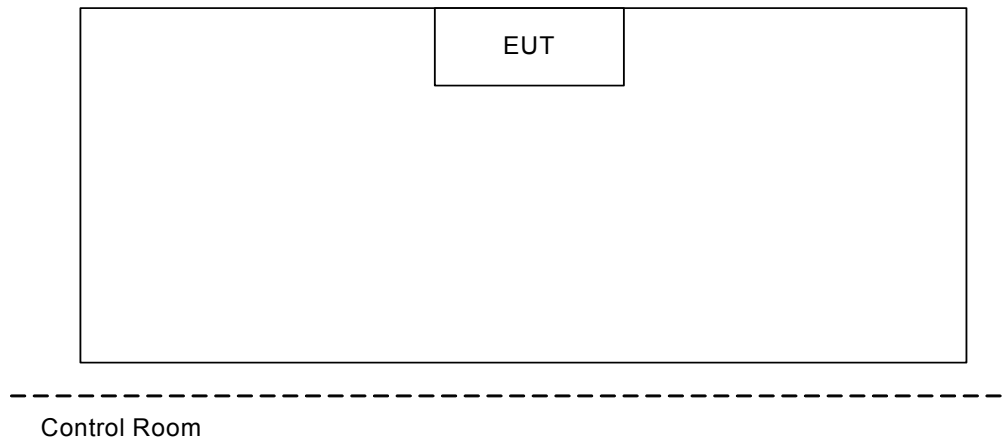
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software version	USI BCM FCC CE REG Tool		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	16.5	16	16
IEEE 802.11g OFDM	15	16	15.5
IEEE 802.11n (20MHz)	14	14.5	14.5
Frequency	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	12	12.5	12.5

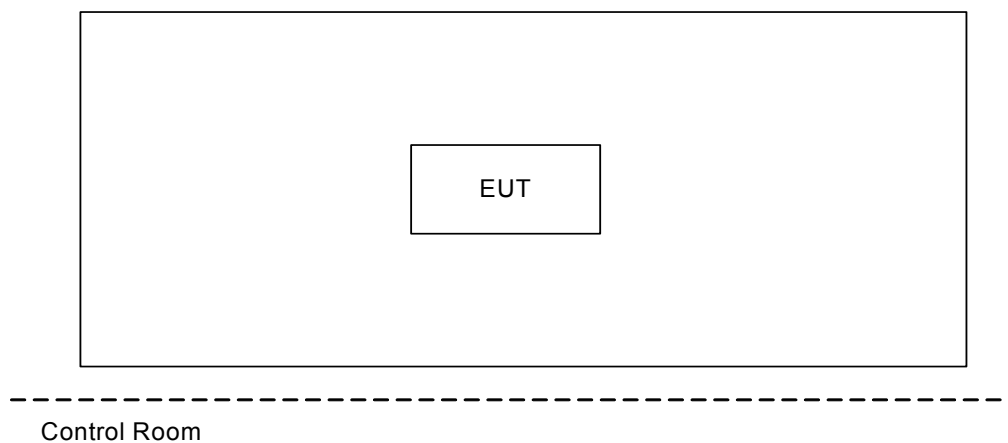


3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted TX Mode:



Radiated TX Mode:





3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

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

The following table is the setting of the receiver

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

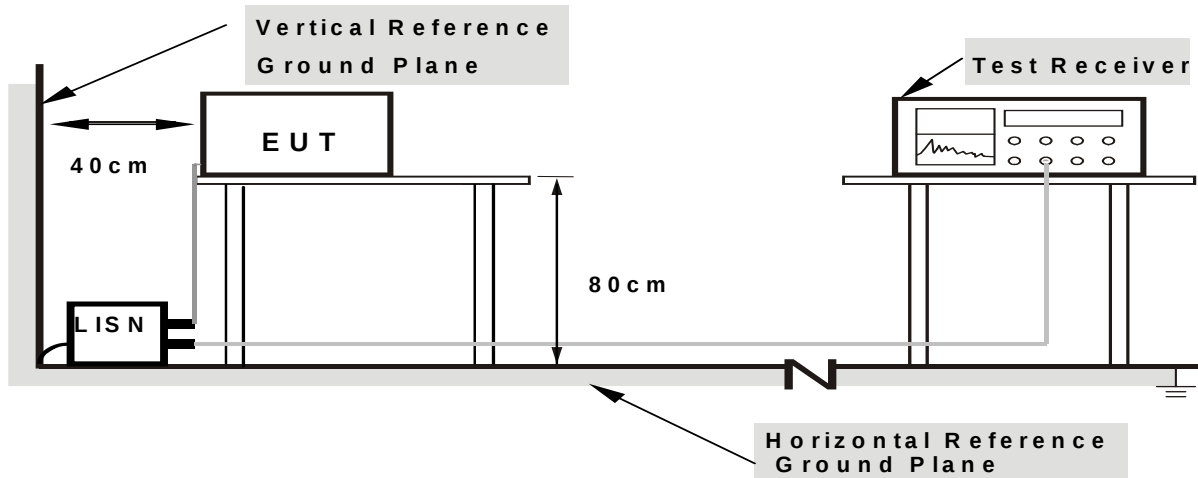
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

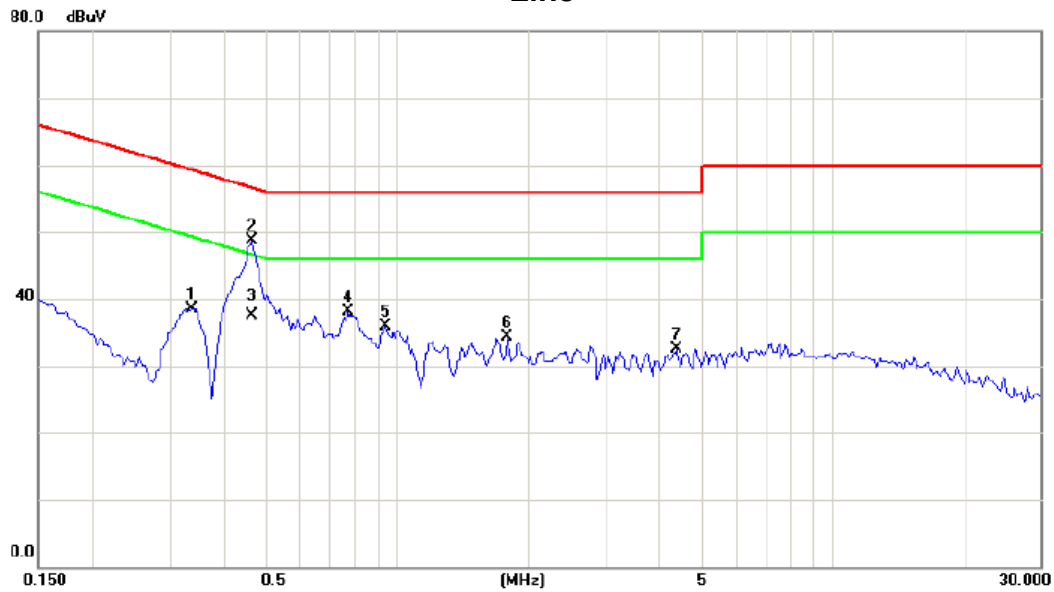
Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



Test Mode : TX MODE

Line

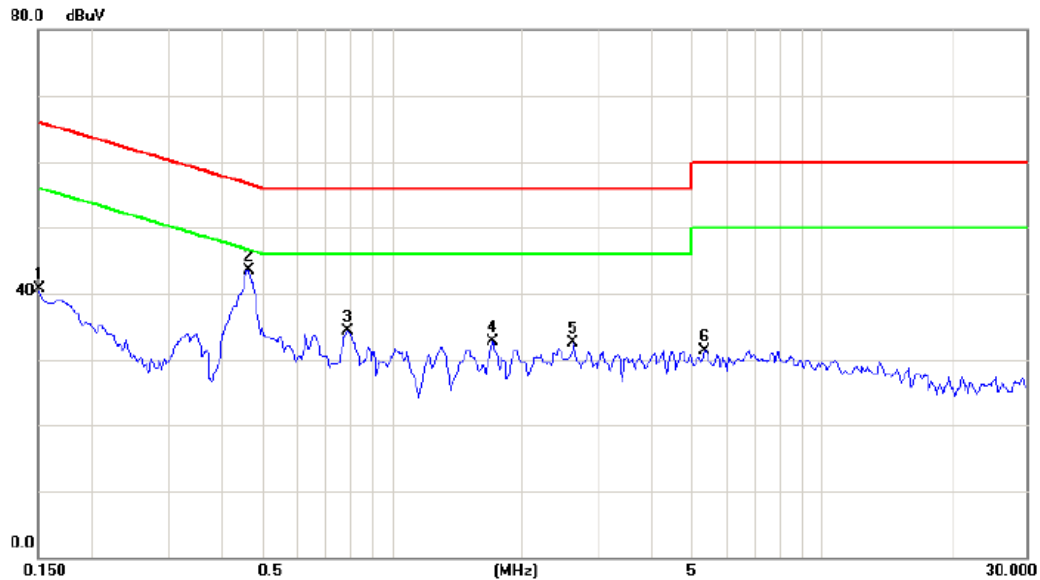


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3375	28.91	9.67	38.58	59.26	-20.68	peak	
2	*	0.4625	39.05	9.70	48.75	56.65	-7.90	peak	
3		0.4625	27.80	9.70	37.50	46.65	-9.15	AVG	
4		0.7750	28.31	9.72	38.03	56.00	-17.97	peak	
5		0.9391	26.16	9.74	35.90	56.00	-20.10	peak	
6		1.7867	24.51	9.82	34.33	56.00	-21.67	peak	
7		4.3828	22.68	9.90	32.58	56.00	-23.42	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		0.1500	31.10	9.70	40.80	66.00	-25.20	peak	
2	*	0.4625	33.80	9.74	43.54	56.65	-13.11	peak	
3		0.7867	24.60	9.75	34.35	56.00	-21.65	peak	
4		1.7125	22.94	9.84	32.78	56.00	-23.22	peak	
5		2.6461	22.65	9.88	32.53	56.00	-23.47	peak	
6		5.3516	21.40	9.97	31.37	60.00	-28.63	peak	



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

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.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

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

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



4.2.2 TEST PROCEDURE

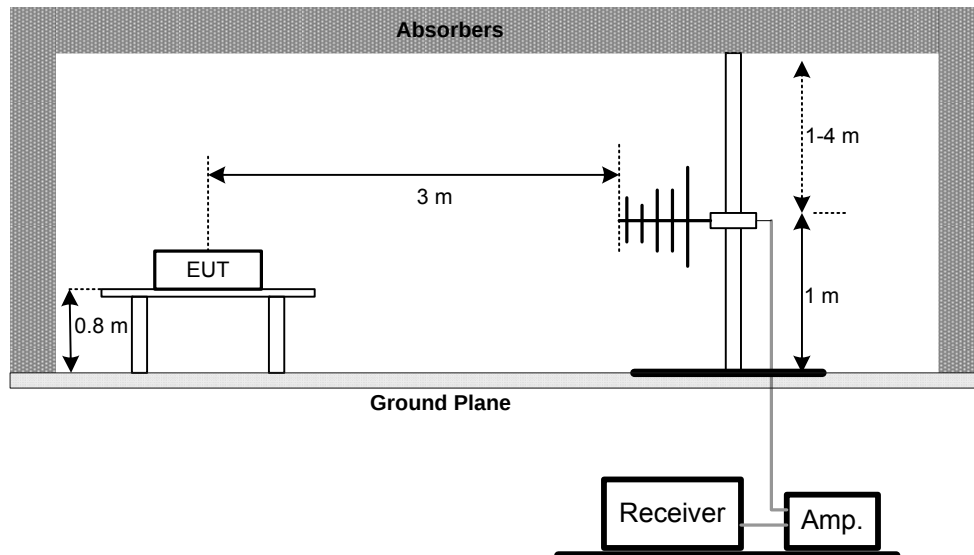
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at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

4.2.3 DEVIATION FROM TEST STANDARD

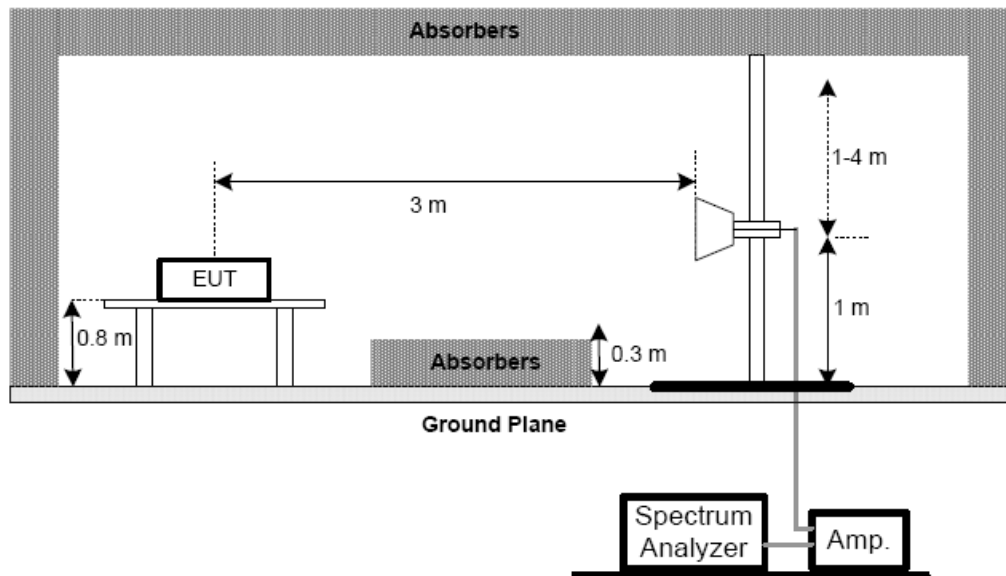
No deviation

4.2.4 TEST SETUP

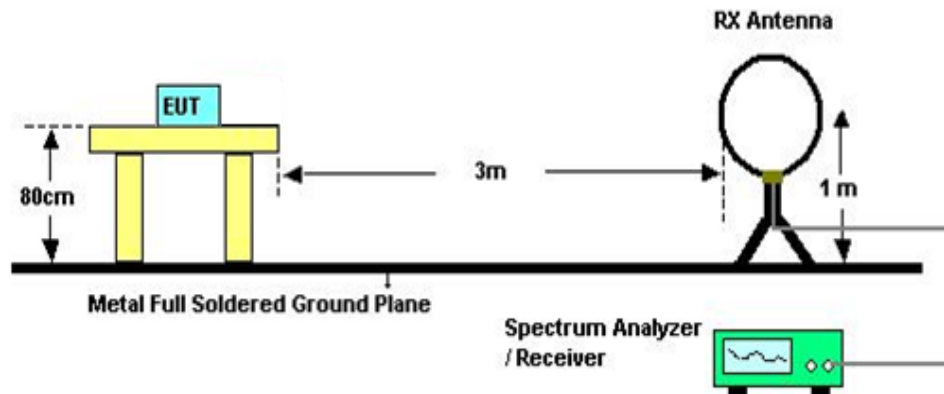
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: DC 3.7V



4.2.7 TEST RESULTS (9K~ 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
0.0095	0°	68.38	24.30	92.68	128.08	-35.40	AV
0.0095	0°	72.32	24.30	96.62	148.08	-51.46	PK
0.0133	0°	70.38	24.30	94.68	125.13	-30.45	AV
0.0133	0°	79.34	24.30	103.64	145.13	-41.49	PK
0.0242	0°	56.32	24.03	80.35	119.93	-39.57	AV
0.0242	0°	60.15	24.03	84.18	139.93	-55.74	PK
0.0325	0°	61.32	23.51	84.83	117.37	-32.54	AV
0.0325	0°	65.34	23.51	88.85	137.37	-48.52	PK
0.5630	0°	18.75	20.00	38.75	72.59	-33.84	QP
1.7552	0°	18.91	19.52	38.43	69.54	-31.11	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0094	90°	76.33	24.30	100.63	128.19	-27.56	AVG
0.0094	90°	82.38	24.30	106.68	148.19	-41.51	PK
0.0235	90°	56.33	24.08	80.41	120.18	-39.77	AVG
0.0235	90°	59.31	24.08	83.39	140.18	-56.79	PK
0.0314	90°	57.39	23.58	80.97	117.67	-36.70	AVG
0.0314	90°	58.23	23.58	81.81	137.67	-55.86	PK
0.0421	90°	59.64	22.90	82.54	115.12	-32.58	AVG
0.0421	90°	63.75	22.90	86.65	135.12	-48.47	PK
0.4917	90°	17.64	19.82	37.46	73.77	-36.31	QP
1.7158	90°	18.72	19.53	38.25	69.54	-31.29	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.



4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

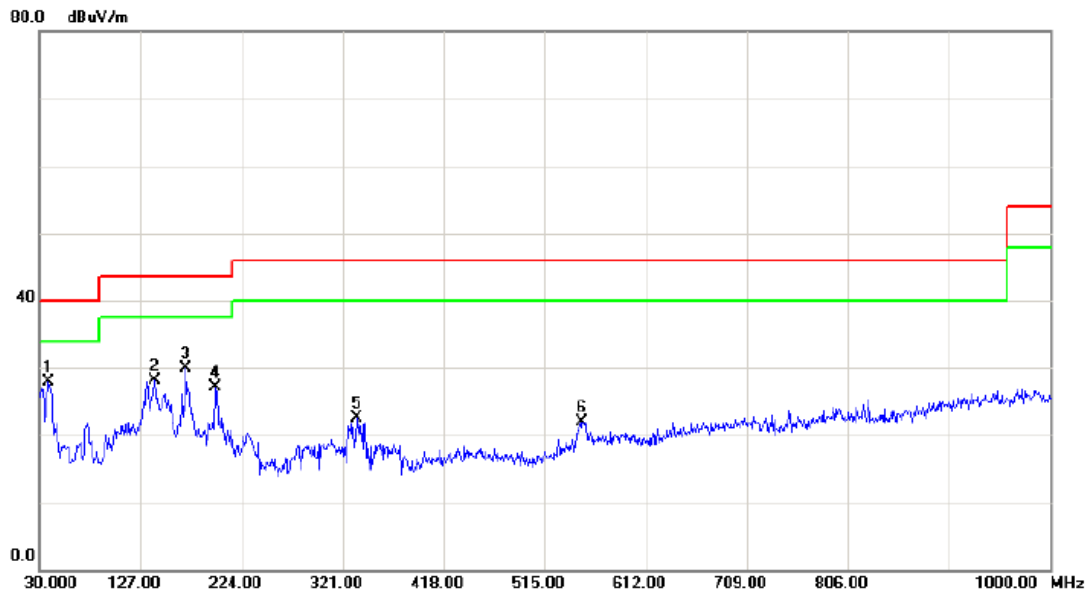
Remark:

- (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.



Test Mode:	TX B MODE CHANNEL 01
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Vertical

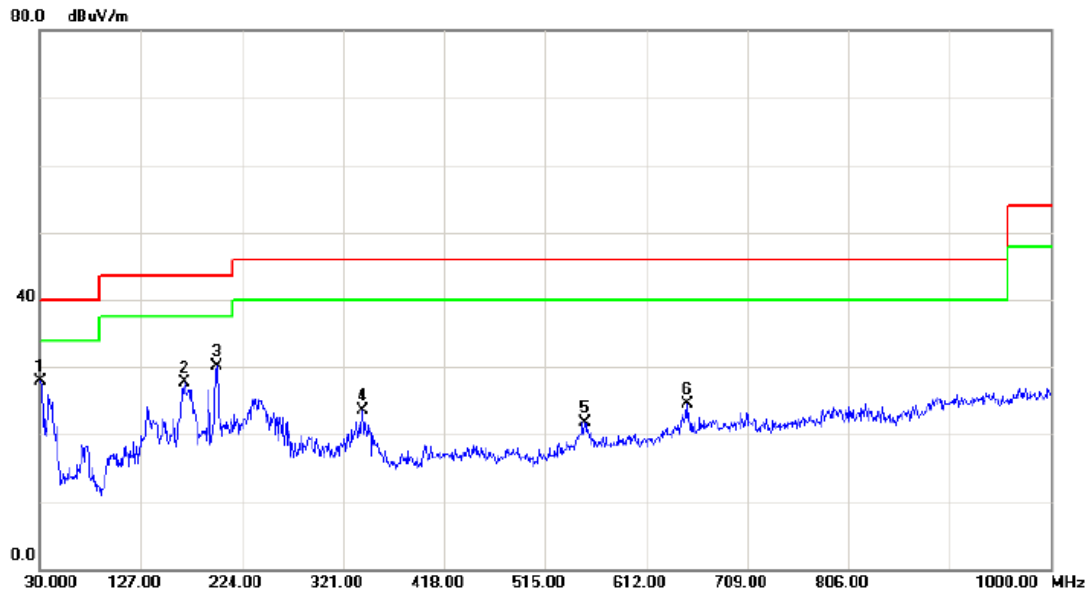


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	38.7300	42.58	-14.77	27.81	40.00	-12.19	peak	
2		140.5800	41.90	-13.78	28.12	43.50	-15.38	peak	
3		170.6500	42.65	-12.73	29.92	43.50	-13.58	peak	
4		198.7800	42.21	-15.09	27.12	43.50	-16.38	peak	
5		334.5800	33.84	-11.39	22.45	46.00	-23.55	peak	
6		549.9200	29.53	-7.65	21.88	46.00	-24.12	peak	



Test Mode:	TX B MODE CHANNEL 01
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Horizontal

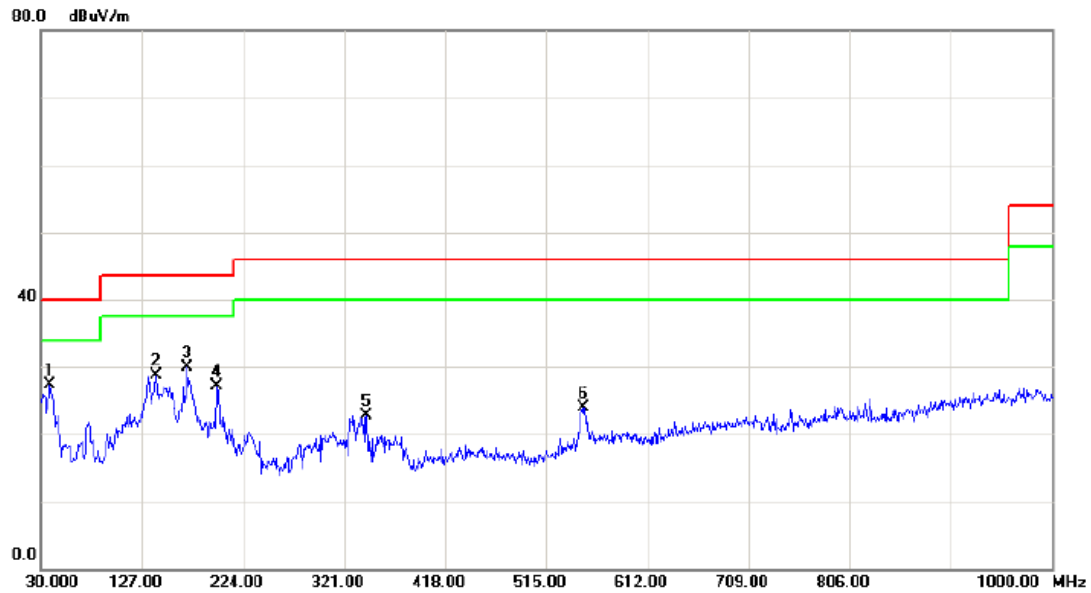


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.9700	44.13	-16.17	27.96	40.00	-12.04	peak	
2		168.7100	40.63	-12.85	27.78	43.50	-15.72	peak	
3		199.7500	45.27	-15.18	30.09	43.50	-13.41	peak	
4		339.4300	34.84	-11.42	23.42	46.00	-22.58	peak	
5		552.8300	29.42	-7.67	21.75	46.00	-24.25	peak	
6		650.8000	30.09	-5.55	24.54	46.00	-21.46	peak	



Test Mode:	TX B MODE CHANNEL 06
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Vertical

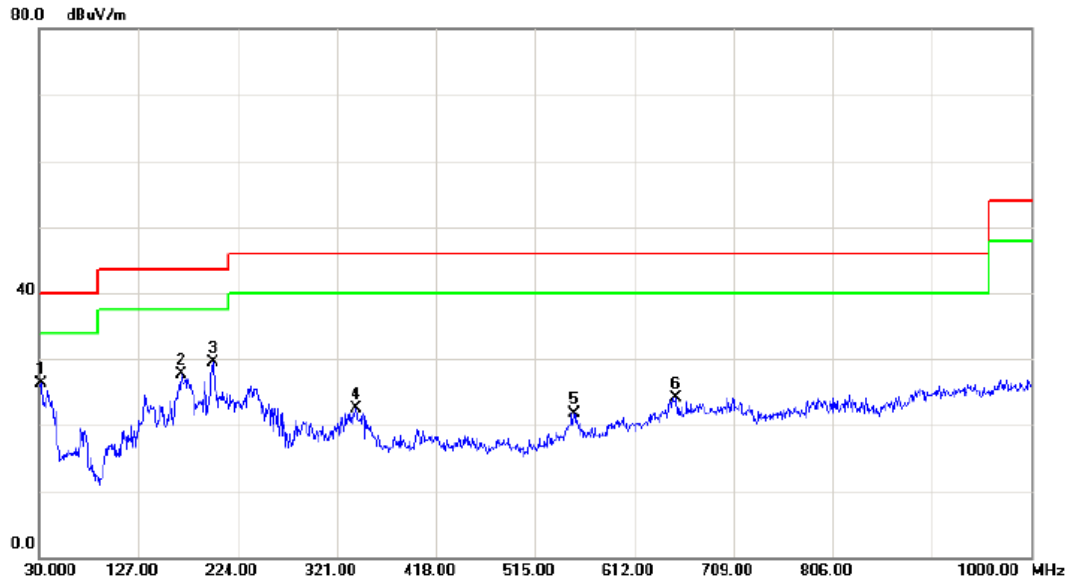


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	38.7300	42.08	-14.77	27.31	40.00	-12.69	peak	
2		140.5800	42.40	-13.78	28.62	43.50	-14.88	peak	
3		170.6500	42.65	-12.73	29.92	43.50	-13.58	peak	
4		198.7800	42.21	-15.09	27.12	43.50	-16.38	peak	
5		342.3400	34.15	-11.42	22.73	46.00	-23.27	peak	
6		549.9200	31.53	-7.65	23.88	46.00	-22.12	peak	



Test Mode: TX B MODE CHANNEL 06

Horizontal

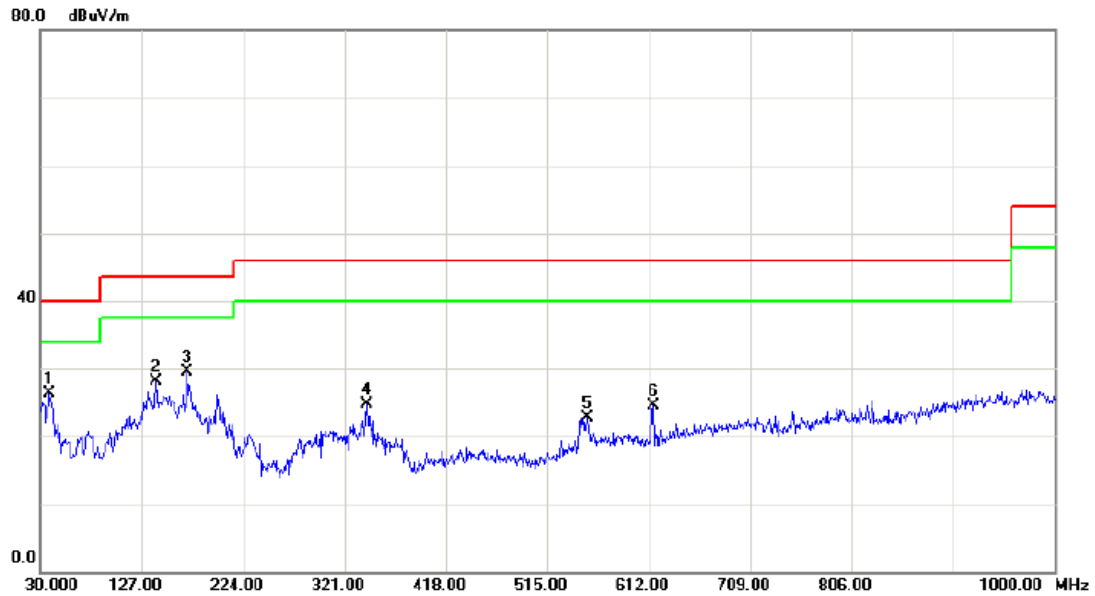


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	31.9400	42.17	-15.96	26.21	40.00	-13.79	peak	
2		168.7100	40.63	-12.85	27.78	43.50	-15.72	peak	
3		199.7500	44.77	-15.18	29.59	43.50	-13.91	peak	
4		339.4300	33.84	-11.42	22.42	46.00	-23.58	peak	
5		552.8300	29.42	-7.67	21.75	46.00	-24.25	peak	
6		652.7400	29.66	-5.52	24.14	46.00	-21.86	peak	



Test Mode:	TX B MODE CHANNEL 11
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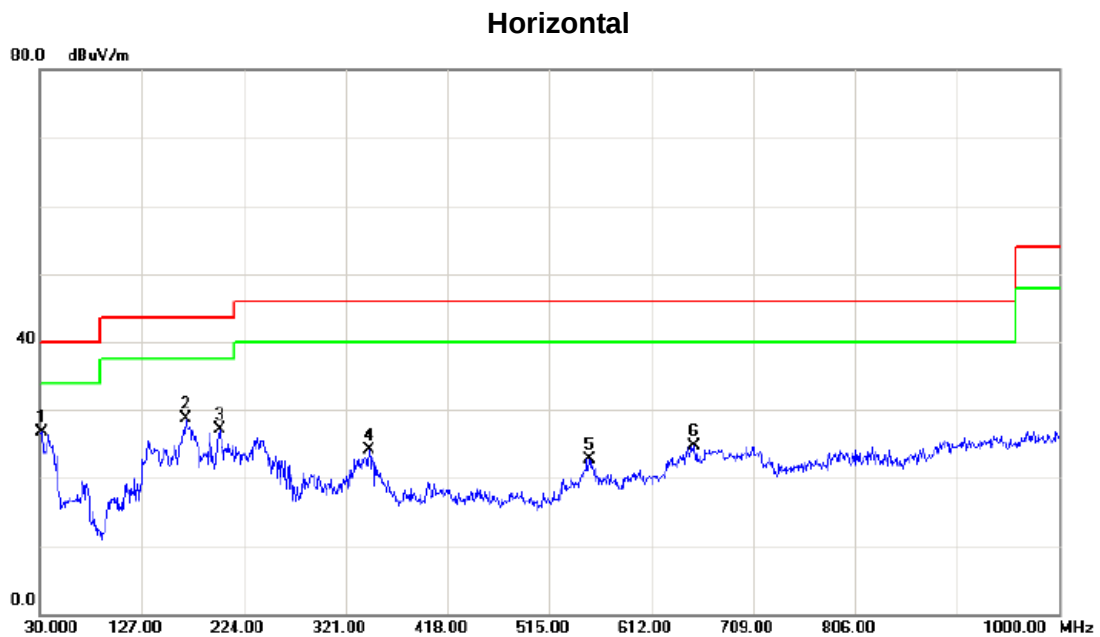
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	38.7300	41.08	-14.77	26.31	40.00	-13.69	peak	
2		140.5800	41.90	-13.78	28.12	43.50	-15.38	peak	
3		170.6500	42.15	-12.73	29.42	43.50	-14.08	peak	
4		342.3400	36.15	-11.42	24.73	46.00	-21.27	peak	
5		552.8300	30.47	-7.67	22.80	46.00	-23.20	peak	
6		616.8500	31.75	-7.24	24.51	46.00	-21.49	peak	



Test Mode:	TX B MODE CHANNEL 11
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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	*	31.9400	42.67	-15.96	26.71	40.00	-13.29	peak	
2		168.7100	41.63	-12.85	28.78	43.50	-14.72	peak	
3		201.6900	42.32	-15.21	27.11	43.50	-16.39	peak	
4		343.3100	35.62	-11.44	24.18	46.00	-21.82	peak	
5		552.8300	30.42	-7.67	22.75	46.00	-23.25	peak	
6		652.7400	30.16	-5.52	24.64	46.00	-21.36	peak	



4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Remark:

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) 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



Test Mode : TX B MODE 2412MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.45	14.01	34.09	57.54	48.10	74.00	54.00	X/E
2411.10	V	67.68	65.69	34.16	101.84	99.85			X/F
4823.85	V	41.36	29.34	6.19	47.55	35.53	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	24.10	14.70	34.09	58.19	48.79	74.00	54.00	X/E
2411.20	H	70.72	68.75	34.16	104.88	102.91			X/F
4824.31	H	39.82	28.44	6.19	46.01	34.63	74.00	54.00	X/H

Test Mode : TX B MODE 2437MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.20	V	66.14	64.21	34.23	100.37	98.44			X/F
4873.99	V	42.25	30.17	6.39	48.64	36.56	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.20	H	69.52	67.60	34.23	103.75	101.83			X/F
4874.21	H	38.54	28.33	6.39	44.93	34.72	74.00	54.00	X/H

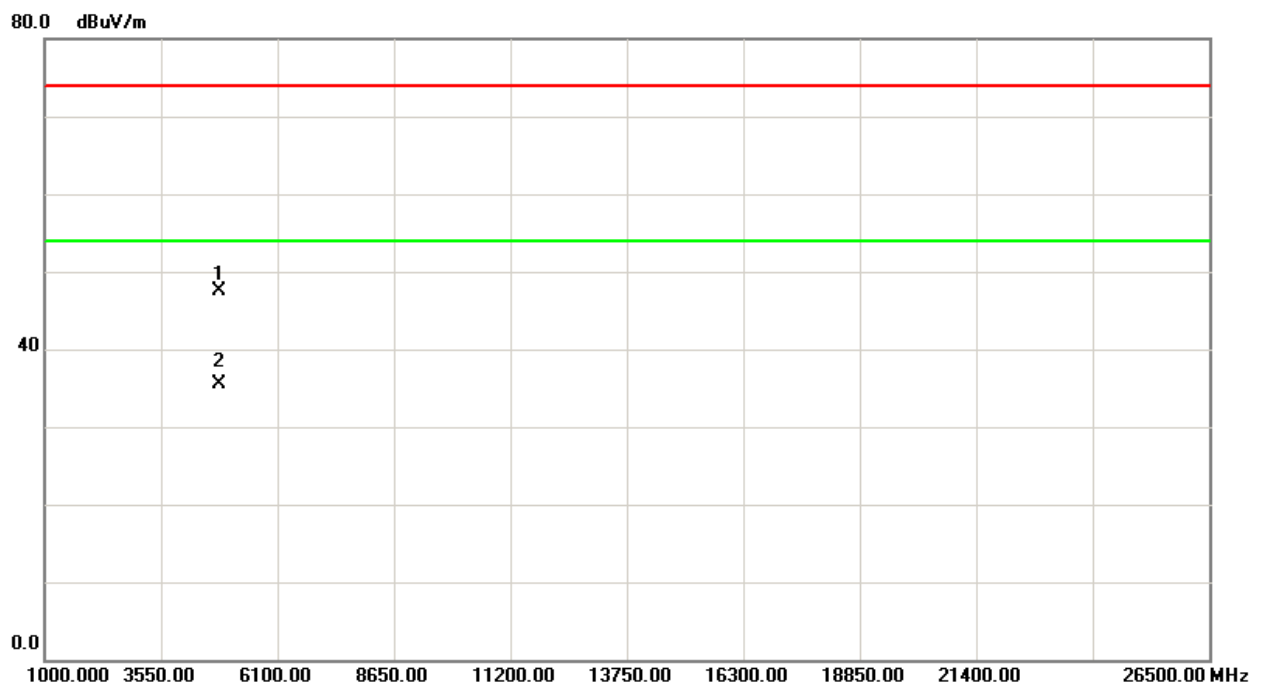
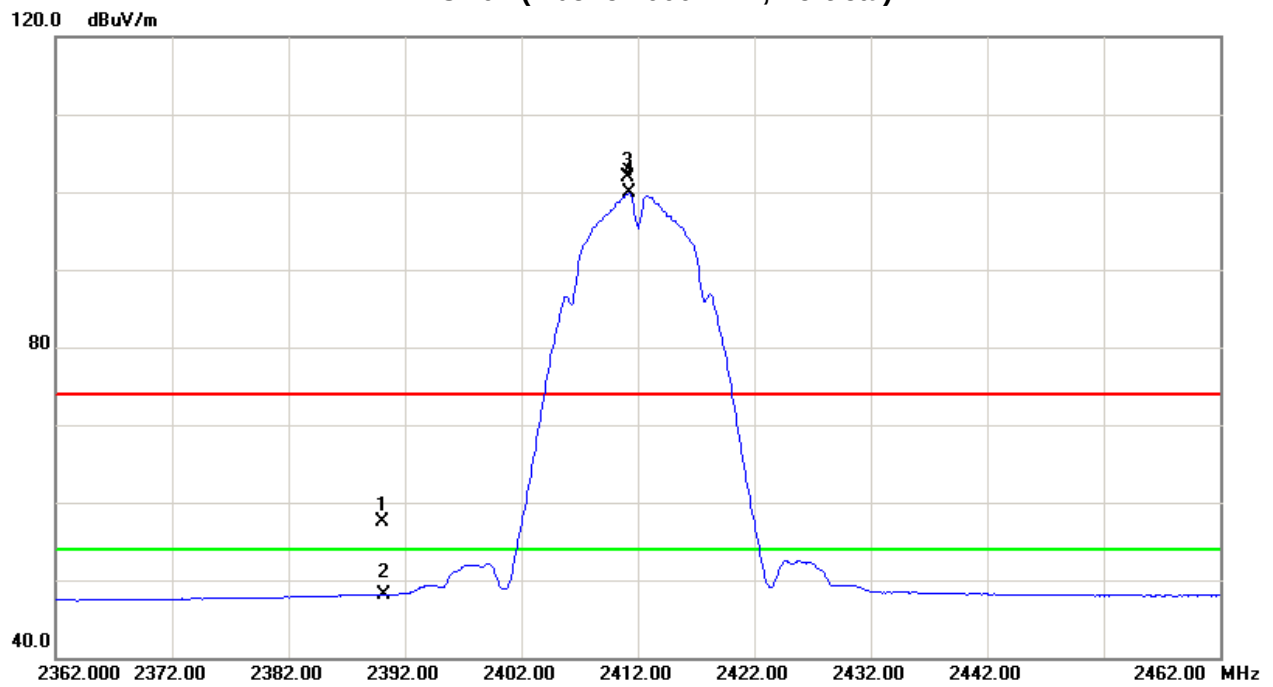
Test Mode : TX B MODE 2462MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2461.10	V	63.64	61.65	34.31	97.95	95.96			X/F
2483.50	V	22.59	13.61	34.37	56.96	47.98	74.00	54.00	X/E
4923.89	V	40.87	29.54	6.59	47.46	36.13	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.90	H	67.61	65.72	34.31	101.92	100.03			X/F
2483.50	H	22.89	13.95	34.37	57.26	48.32	74.00	54.00	X/E
4924.12	H	39.37	28.71	6.59	45.96	35.30	74.00	54.00	X/H

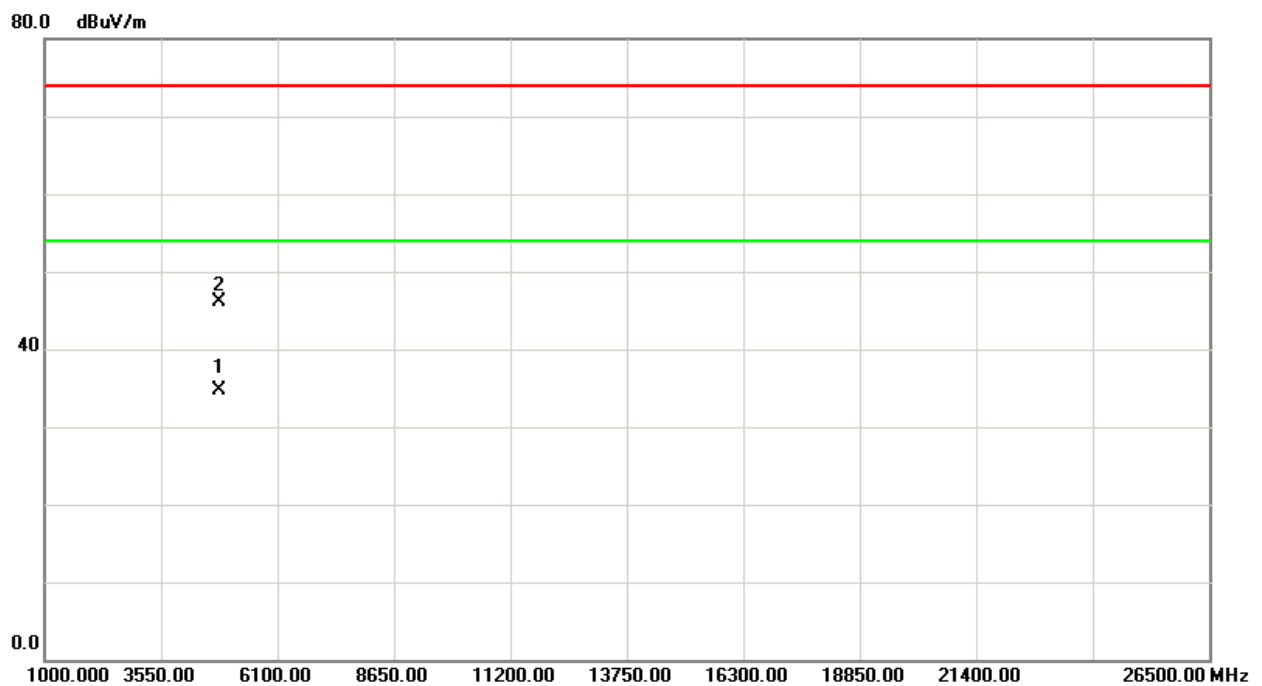
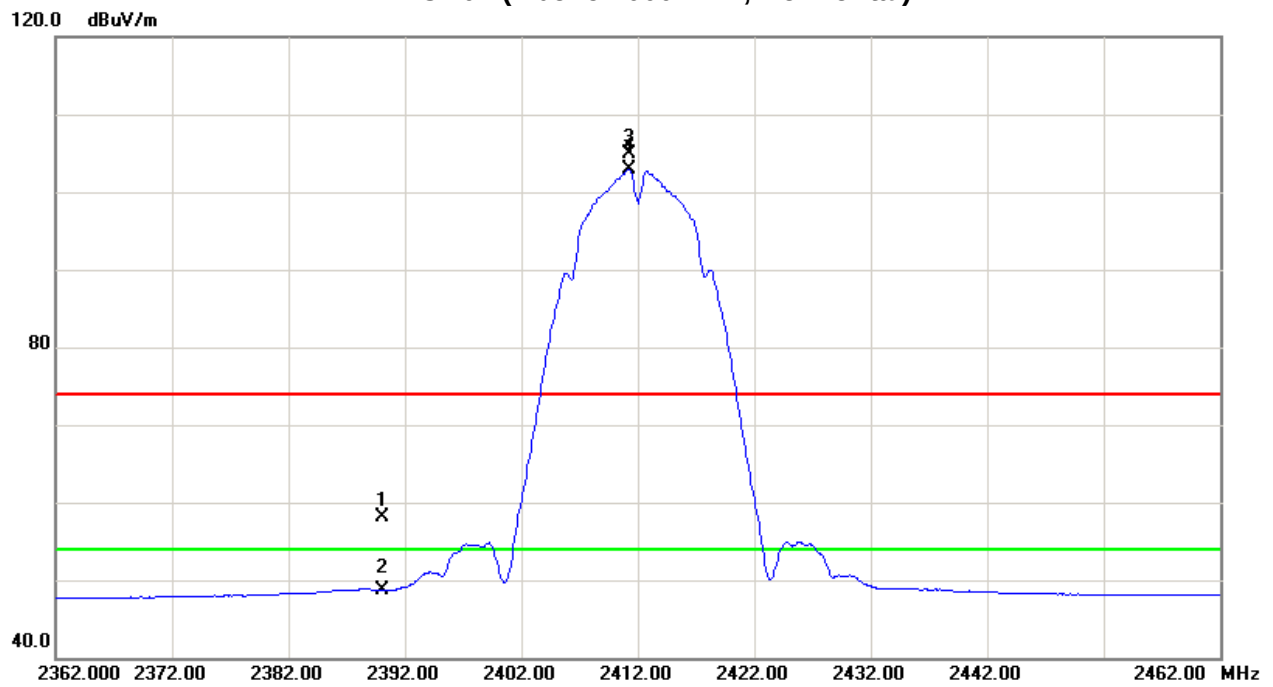


TX CH01 (Above 1000 MHz, Vertical)



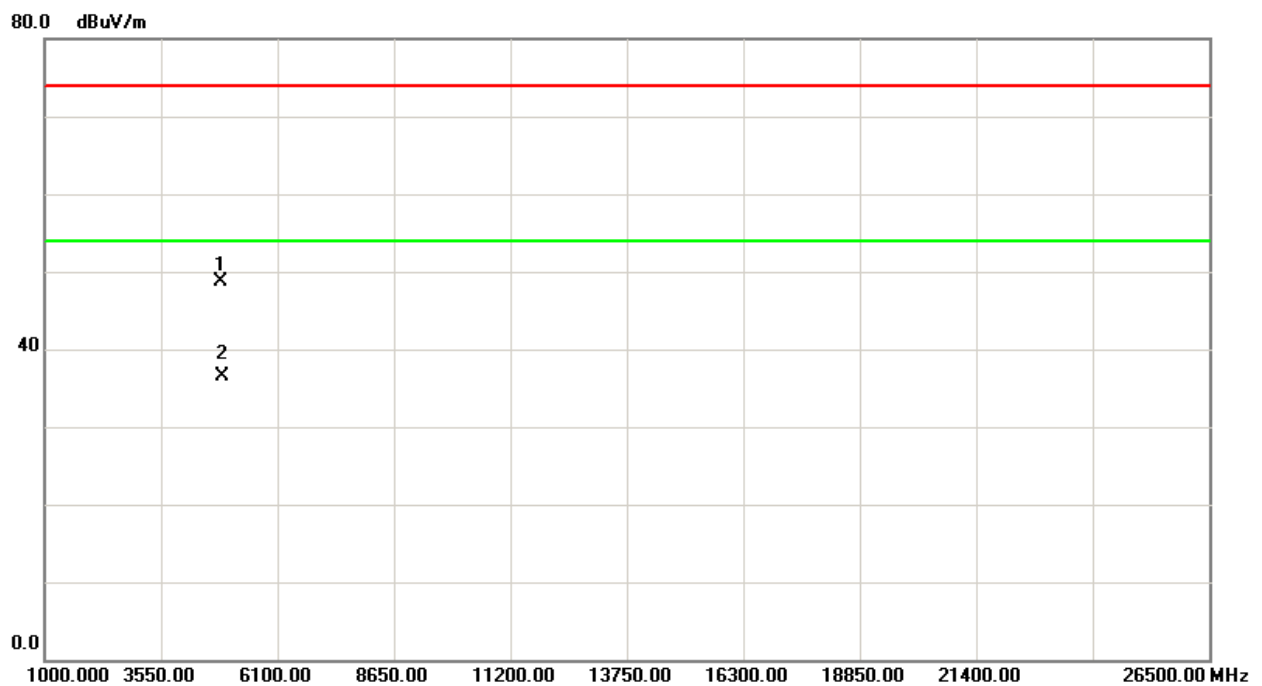
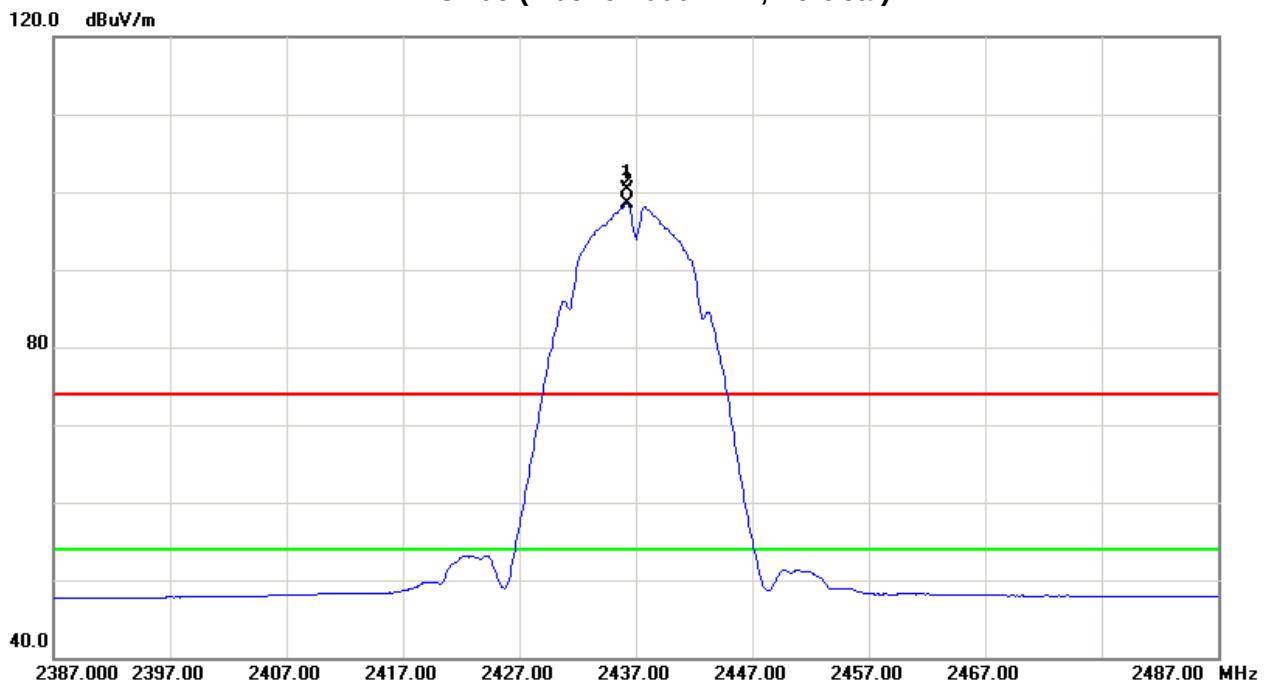


TX CH01 (Above 1000 MHz, Horizontal)



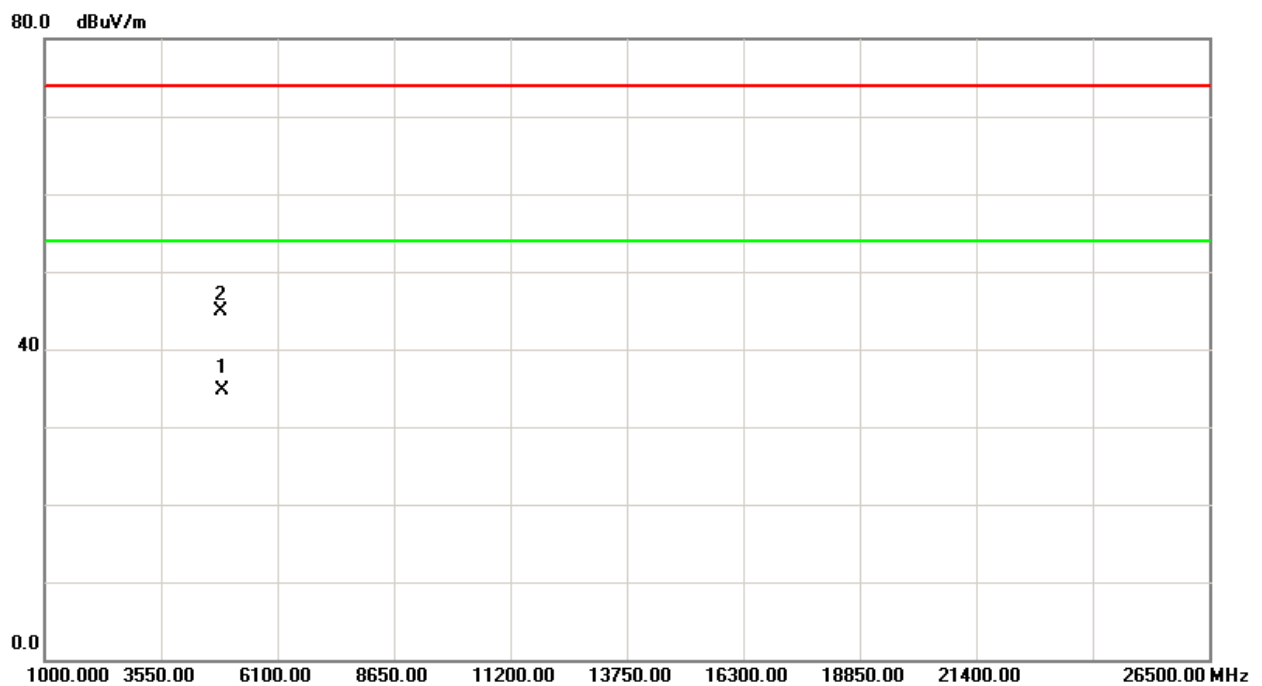
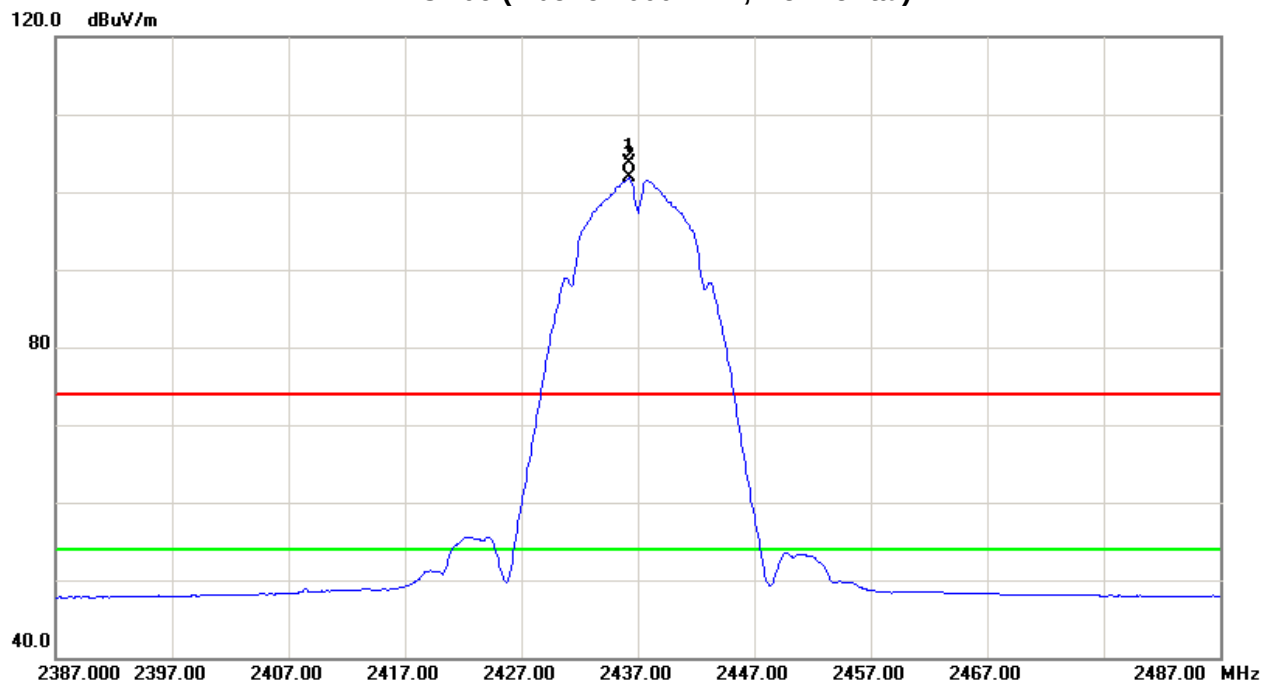


TX CH06 (Above 1000 MHz, Vertical)



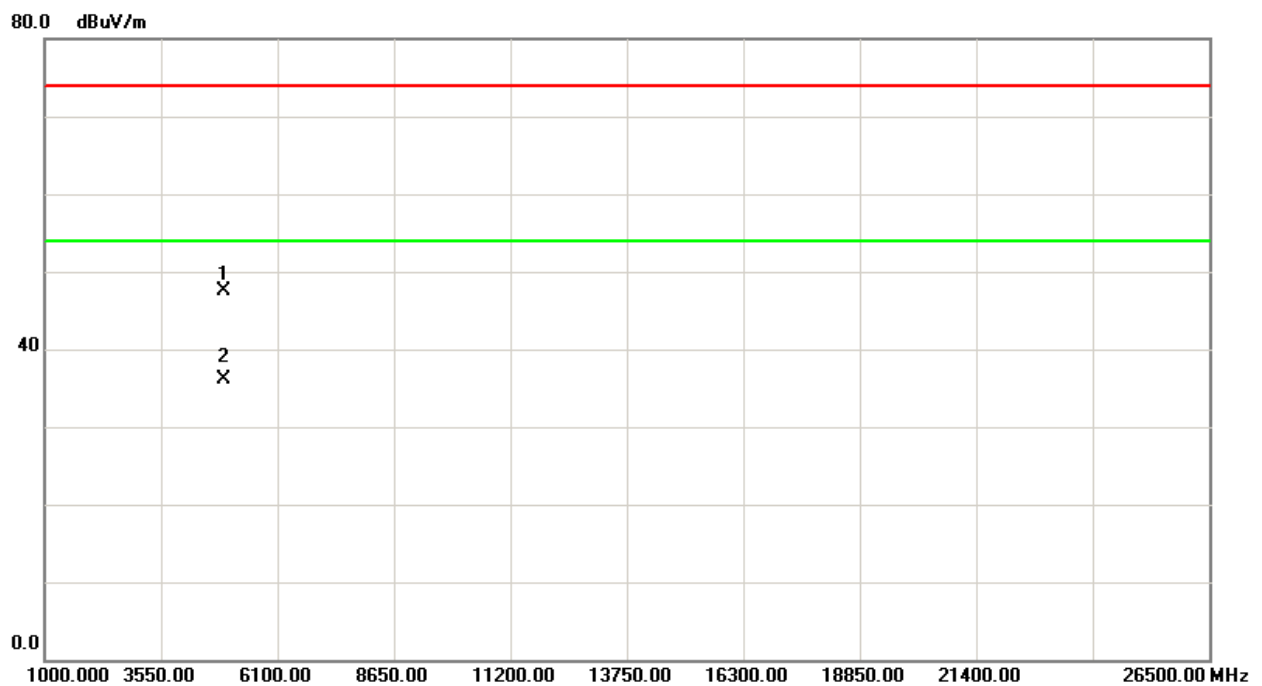
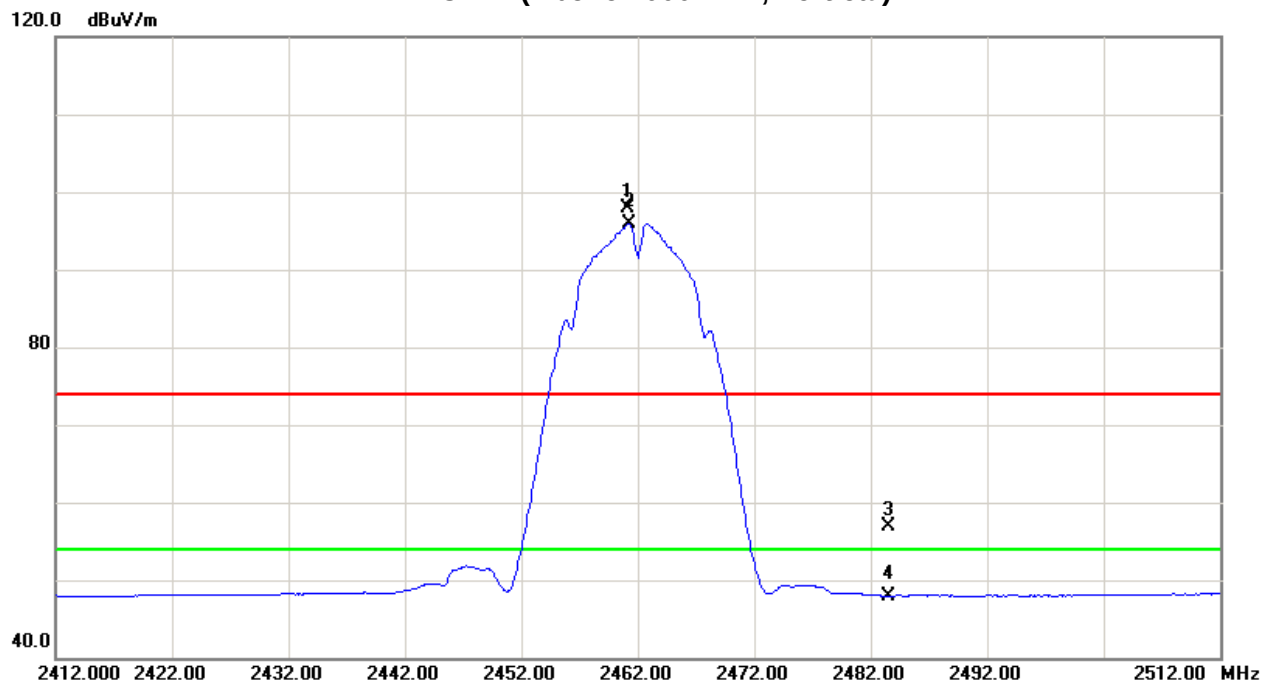


TX CH06 (Above 1000 MHz, Horizontal)



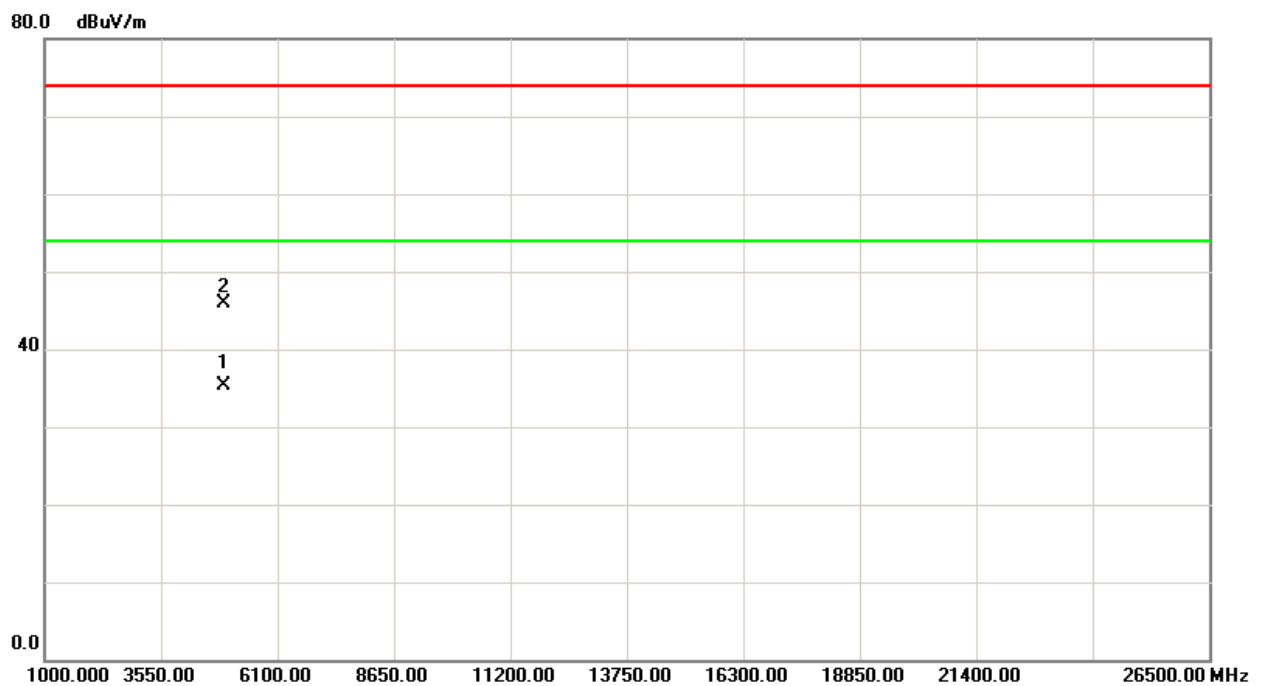
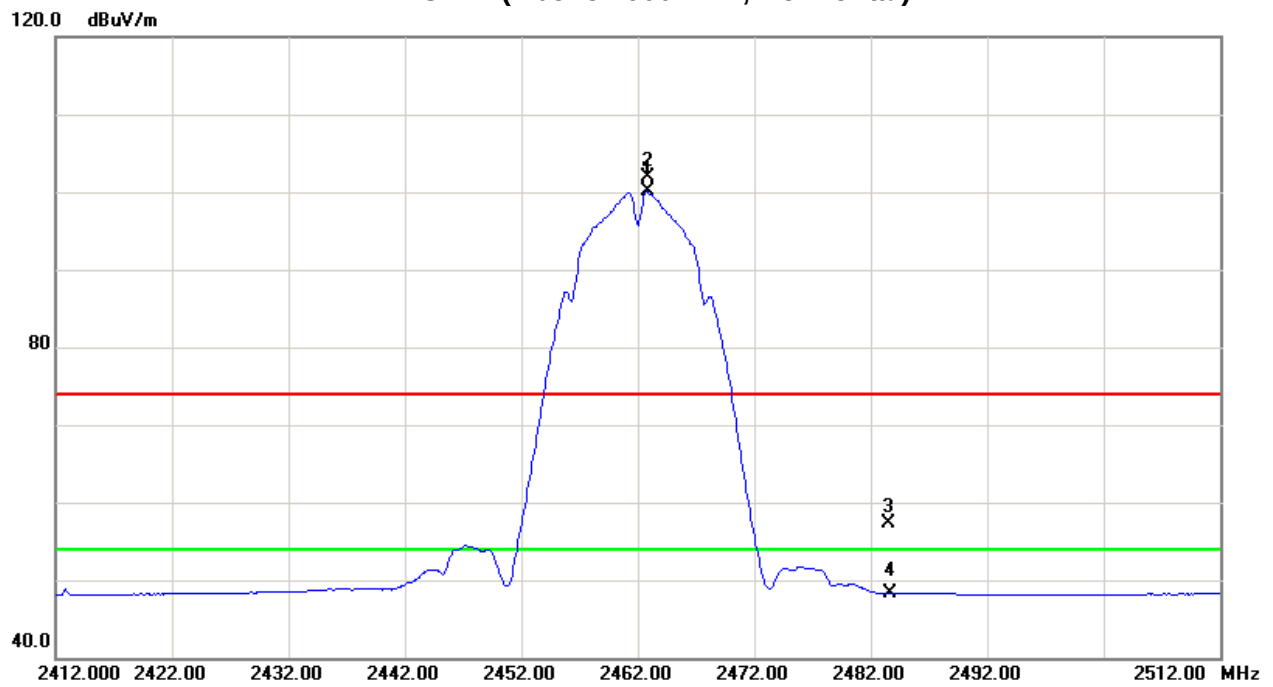


TX CH11 (Above 1000 MHz, Vertical)





TX CH11 (Above 1000 MHz, Horizontal)





Test Mode : TX G MODE 2412MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	33.26	17.12	34.09	67.35	51.21	74.00	54.00	X/E
2417.70	V	66.61	58.72	34.12	100.73	92.84			X/F
4824.88	V	39.43	29.20	5.29	44.72	34.49	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	33.22	18.89	34.09	67.31	52.98	74.00	54.00	X/E
2409.60	H	70.39	61.33	34.14	104.53	95.47			X/F
4823.76	H	41.60	30.12	5.29	46.89	35.41	74.00	54.00	X/H

Test Mode : TX G MODE 2437MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2429.50	V	66.69	59.60	34.21	100.90	93.81			X/F
4870.27	V	42.23	30.19	5.46	47.69	35.65	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2429.50	H	70.40	62.77	34.21	104.61	96.98			X/F
4874.13	H	38.92	28.53	5.47	44.39	34.00	74.00	54.00	X/H

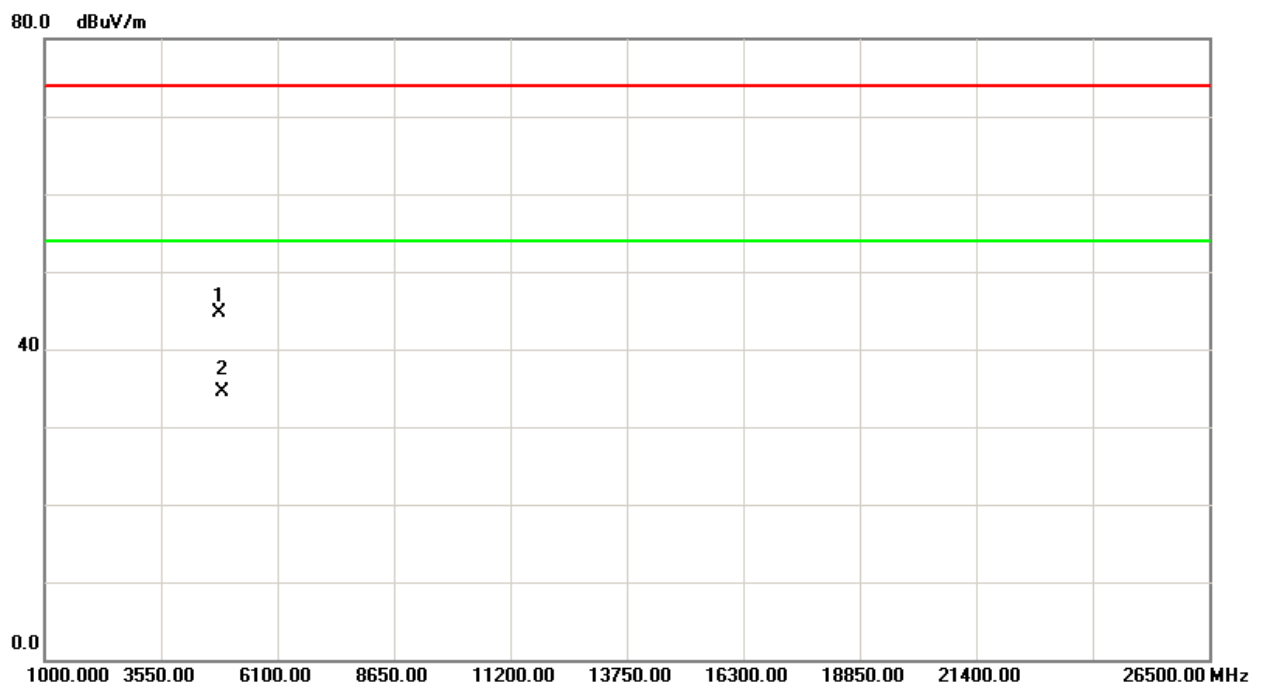
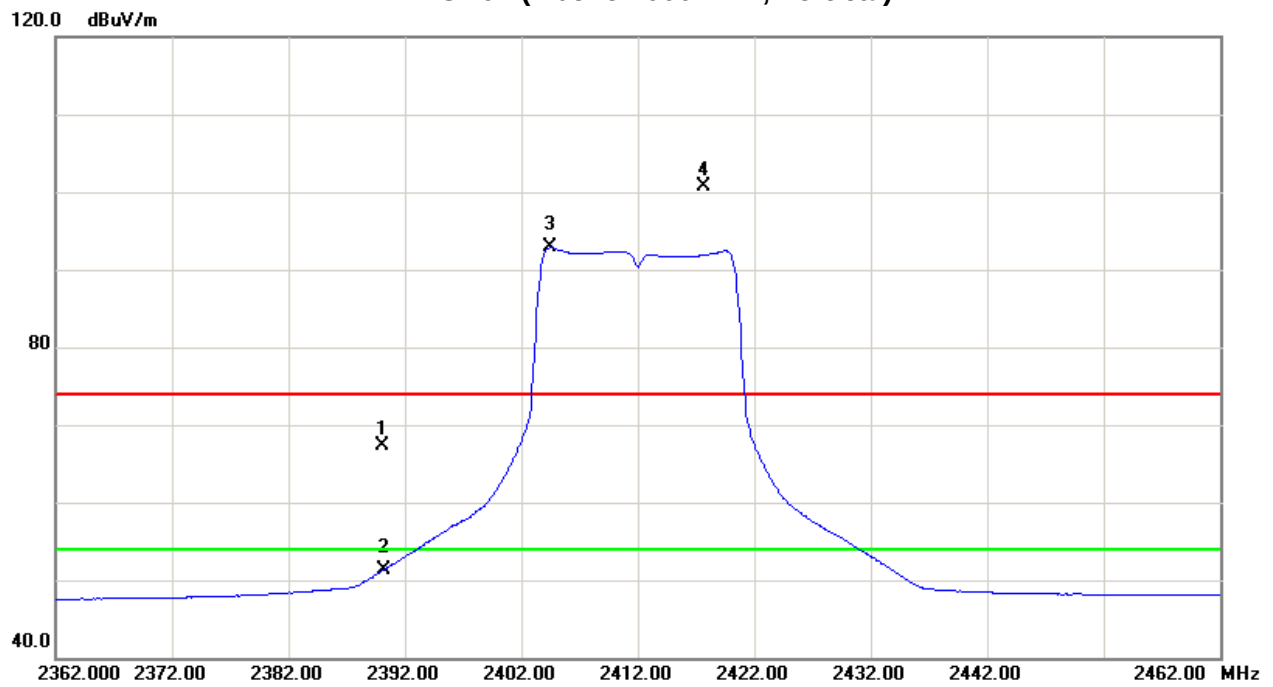
Test Mode : TX G MODE 2462MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2465.00	V	66.58	58.24	34.31	100.89	92.55			X/F
2483.50	V	32.53	17.77	34.37	66.90	52.14	74.00	54.00	X/E
4920.23	V	42.35	29.54	5.64	47.99	35.18	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2455.20	H	69.23	60.42	34.29	103.52	94.71			X/F
2483.50	H	33.62	18.19	34.37	67.99	52.56	74.00	54.00	X/E
4923.94	H	39.43	28.89	5.65	45.08	34.54	74.00	54.00	X/H

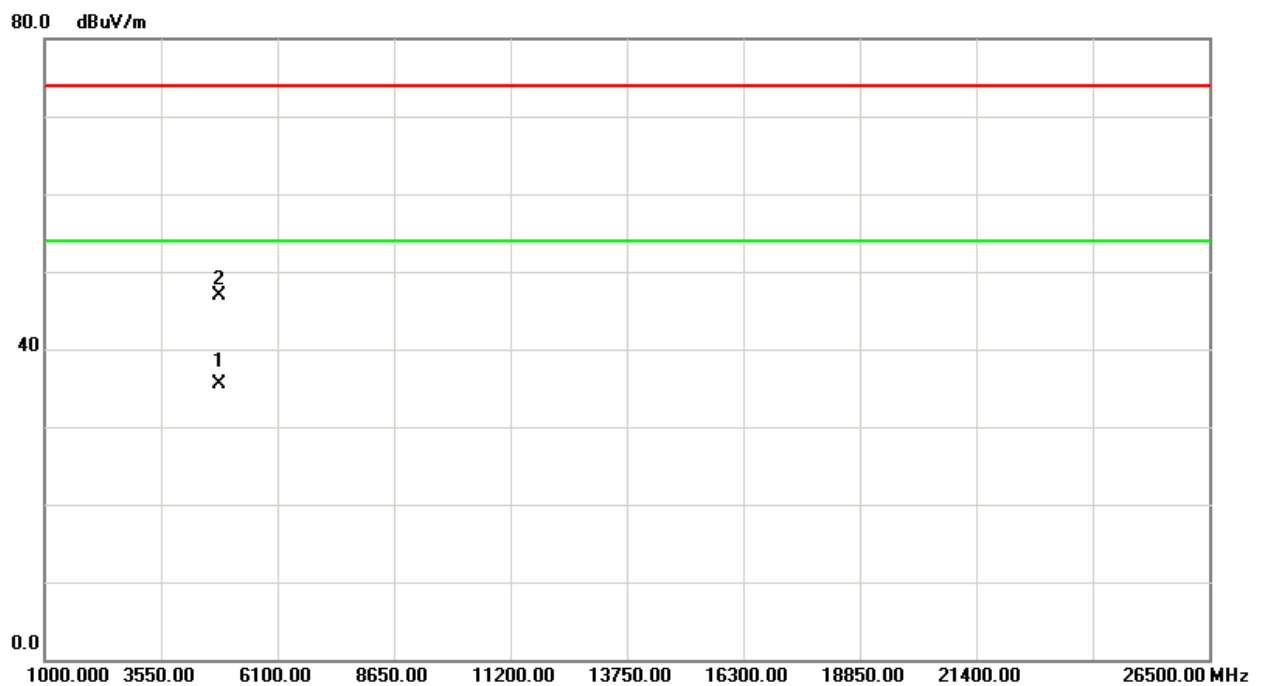
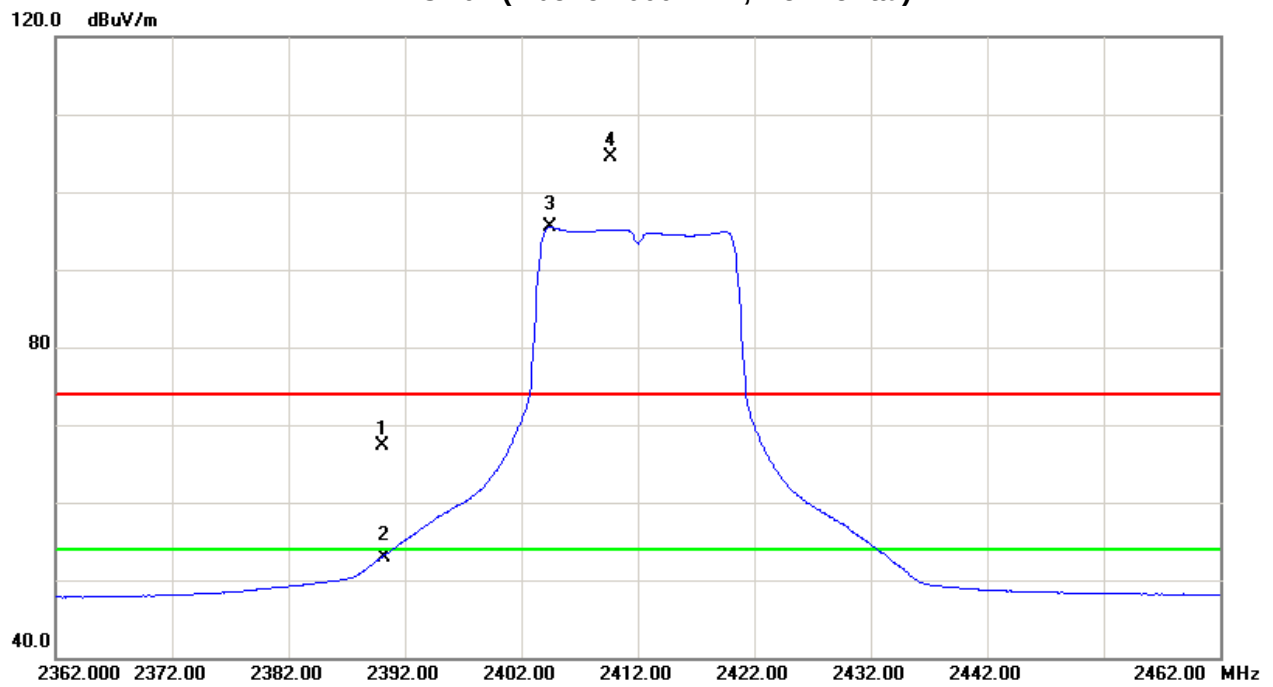


TX CH01 (Above 1000 MHz, Vertical)



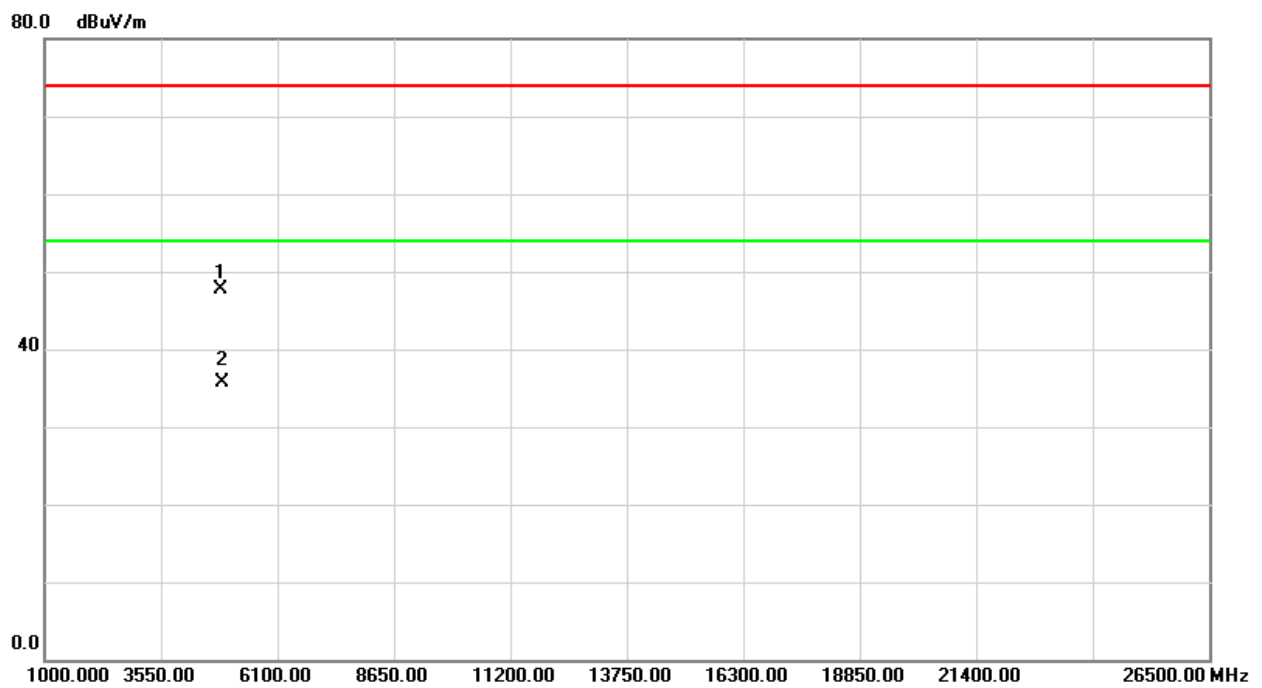
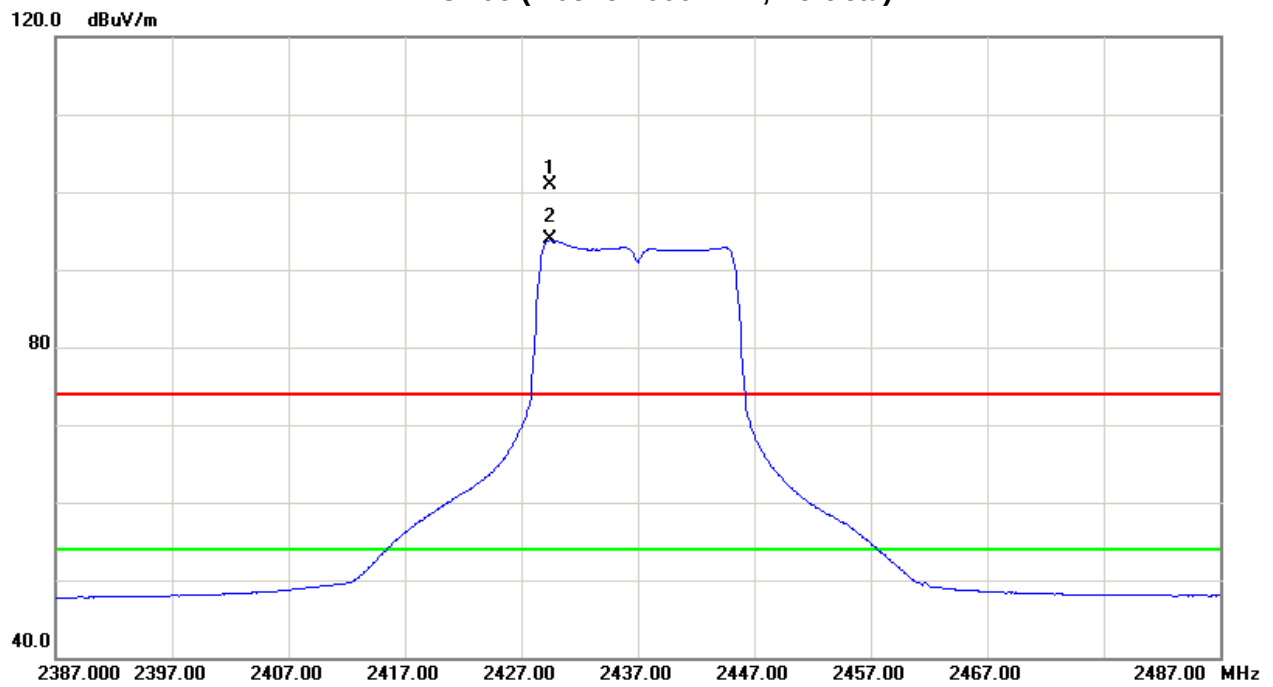


TX CH01 (Above 1000 MHz, Horizontal)



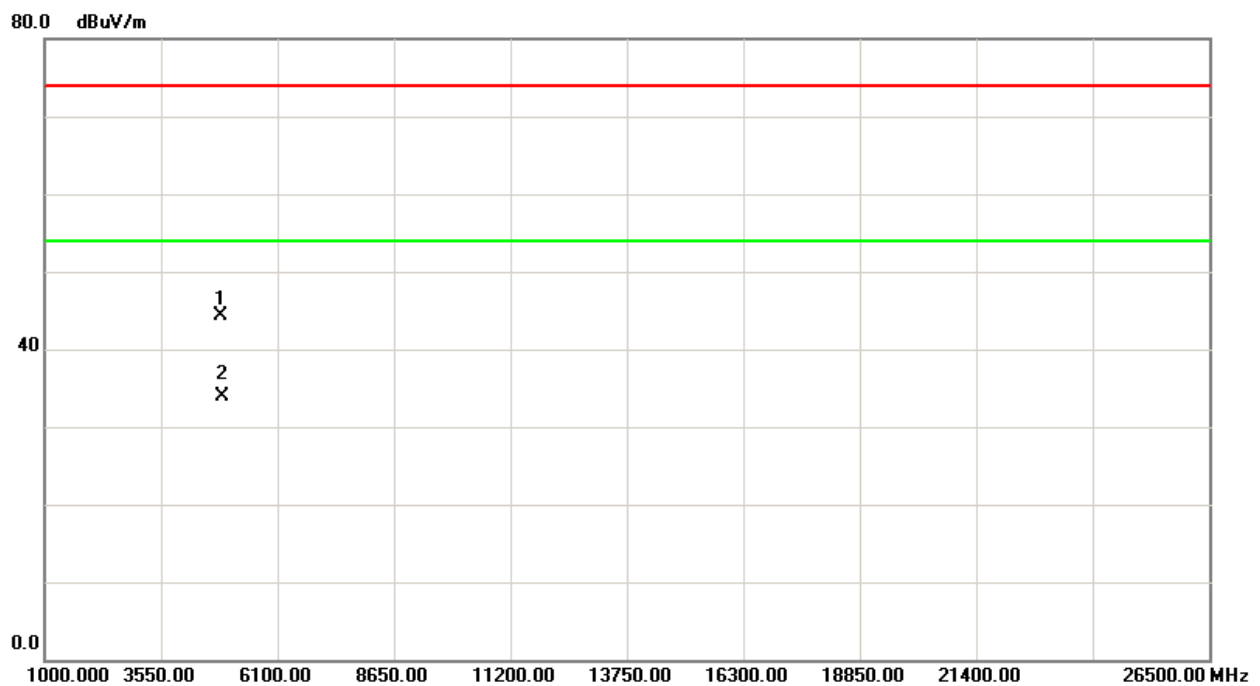
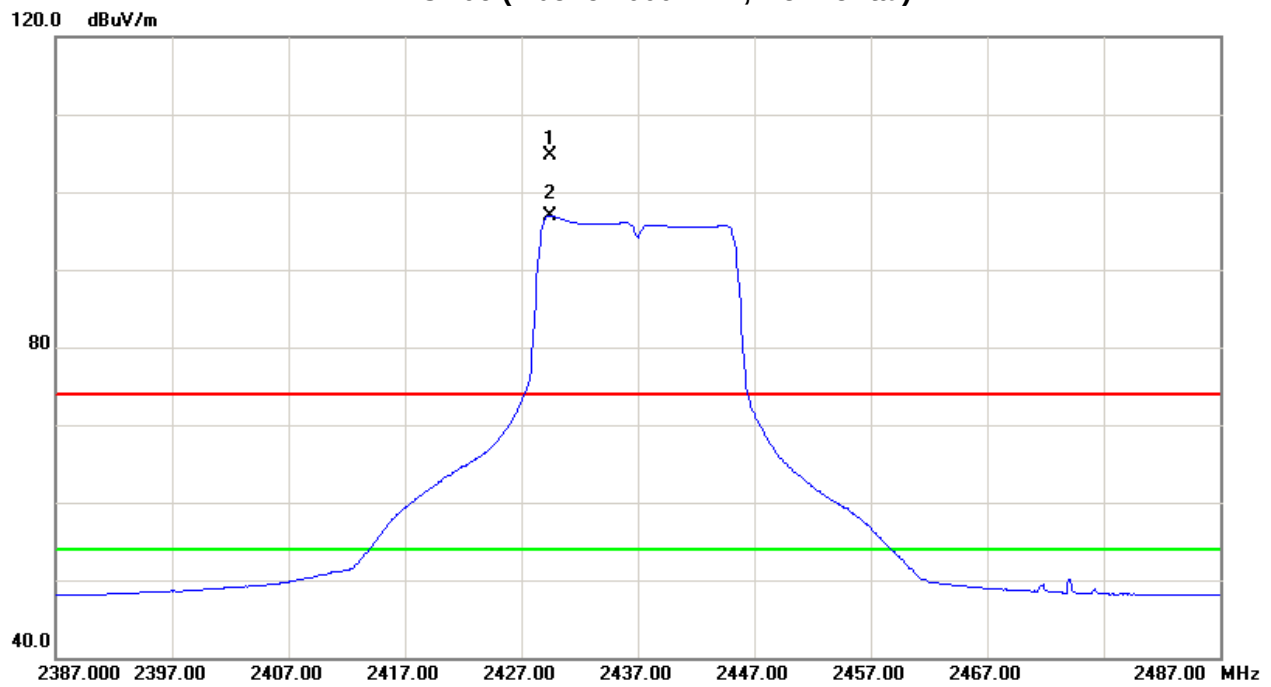


TX CH06 (Above 1000 MHz, Vertical)



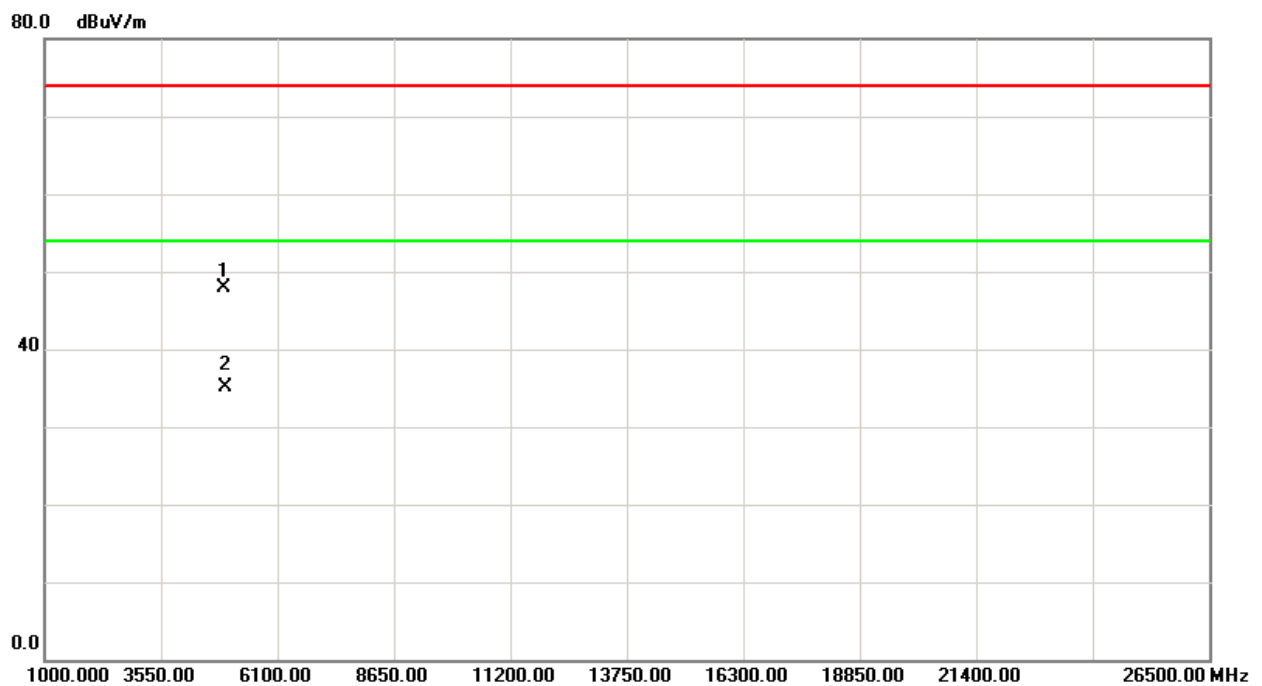
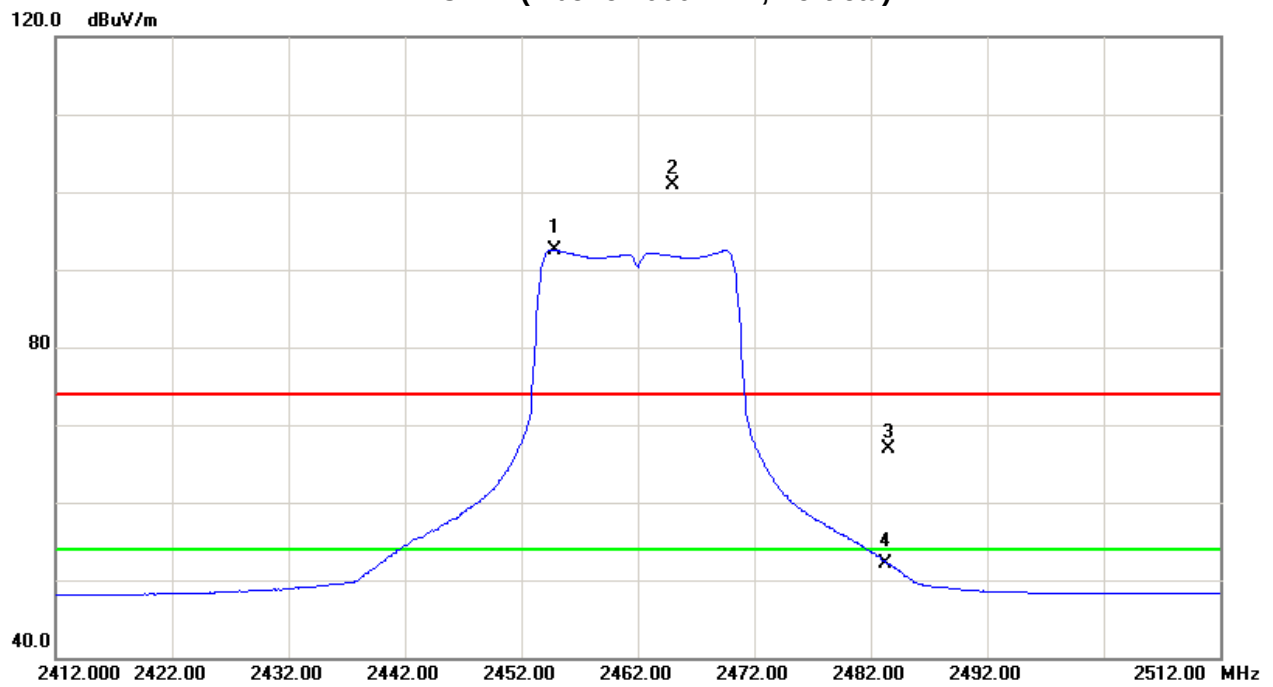


TX CH06 (Above 1000 MHz, Horizontal)



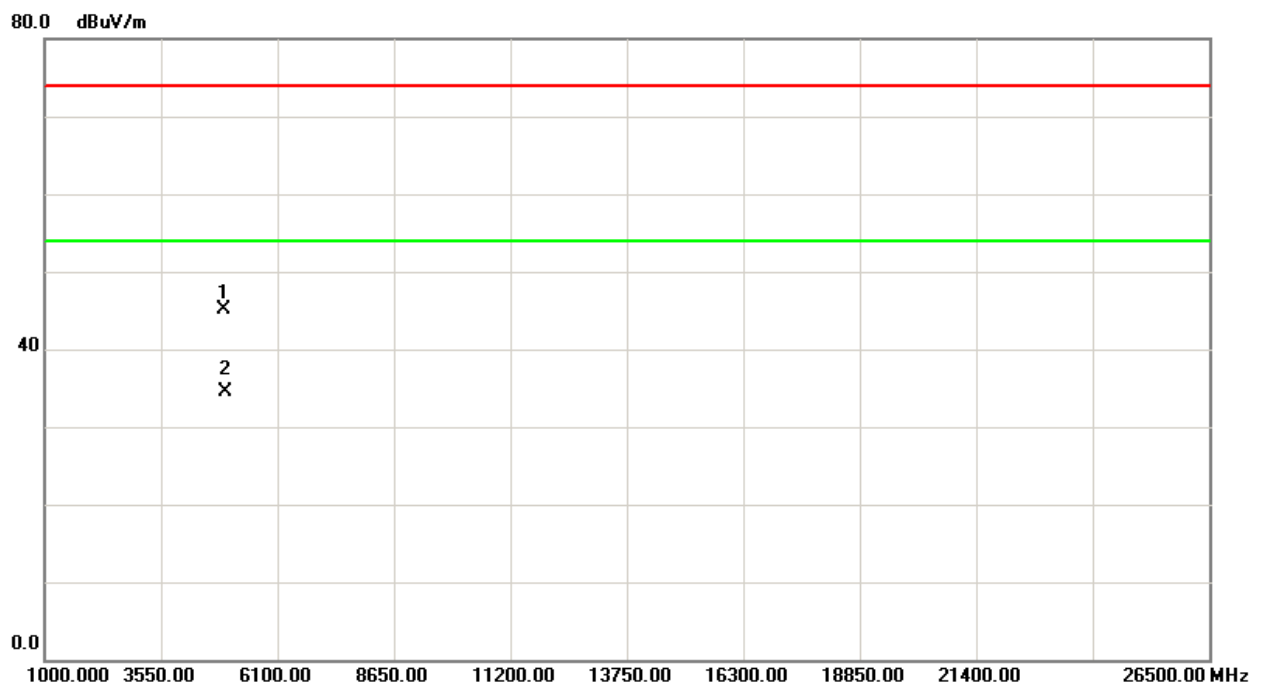
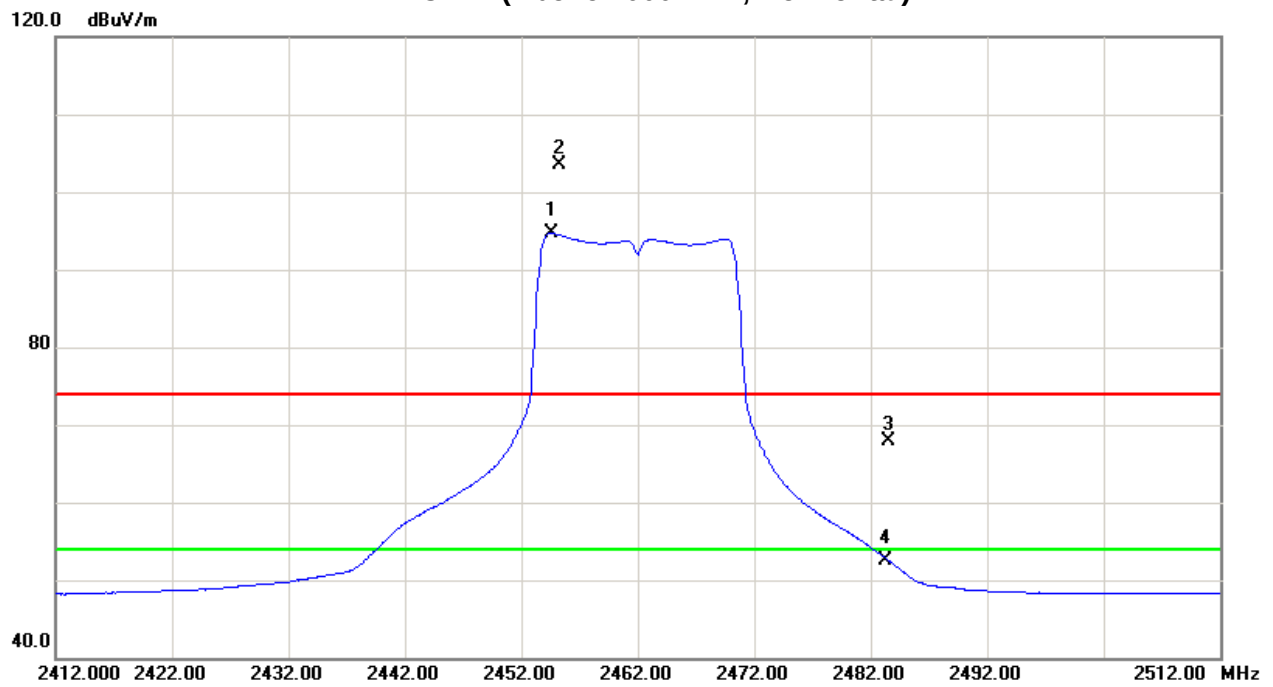


TX CH11 (Above 1000 MHz, Vertical)





TX CH11 (Above 1000 MHz, Horizontal)





Test Mode : TX N-20M MODE 2412MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	33.63	16.81	34.09	67.72	50.90	74.00	54.00	X/E
2410.20	V	67.11	57.73	34.14	101.25	91.87			X/F
4824.98	V	41.90	29.57	5.29	47.19	34.86	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	34.67	18.64	34.09	68.76	52.73	74.00	54.00	X/E
2410.50	H	69.17	60.39	34.14	103.31	94.53			X/F
4823.70	H	40.13	28.95	5.29	45.42	34.24	74.00	54.00	X/H

Test Mode : TX N-20M MODE 2437MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2430.10	V	66.93	58.11	34.21	101.14	92.32			X/F
4873.12	V	42.96	30.15	5.47	48.43	35.62	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2432.80	H	67.94	60.29	34.21	102.15	94.50			X/F
4873.90	H	40.27	29.12	5.47	45.74	34.59	74.00	54.00	X/H

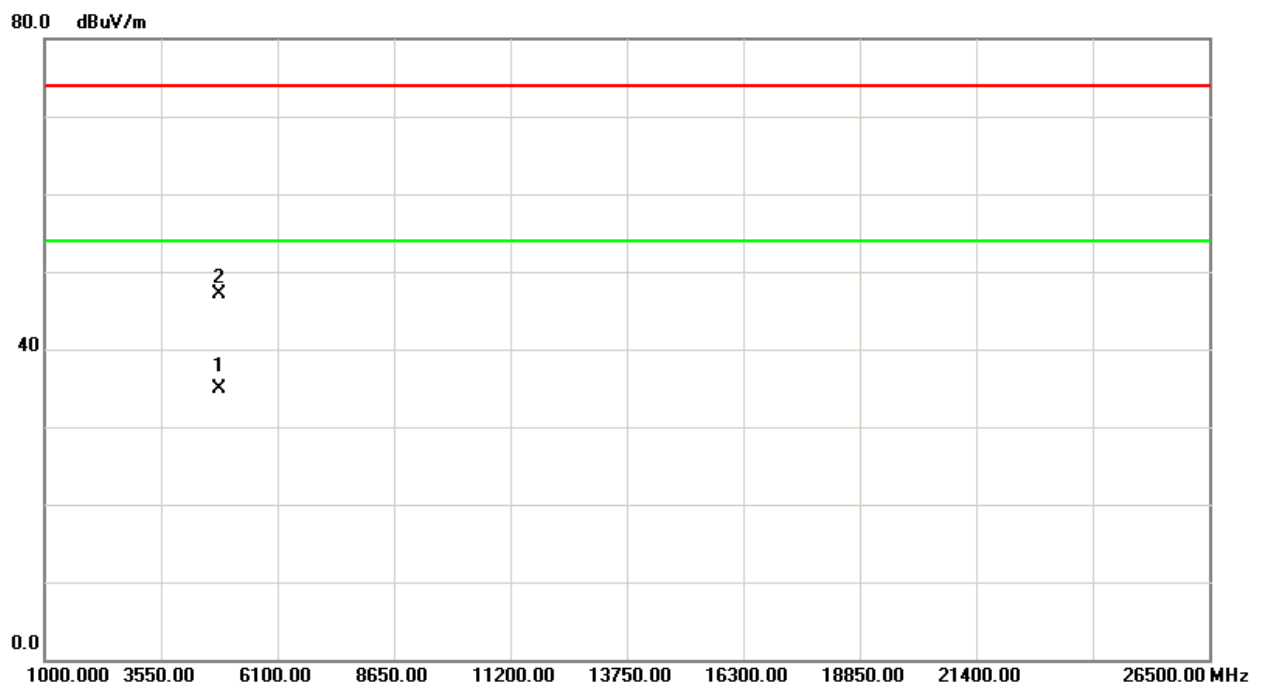
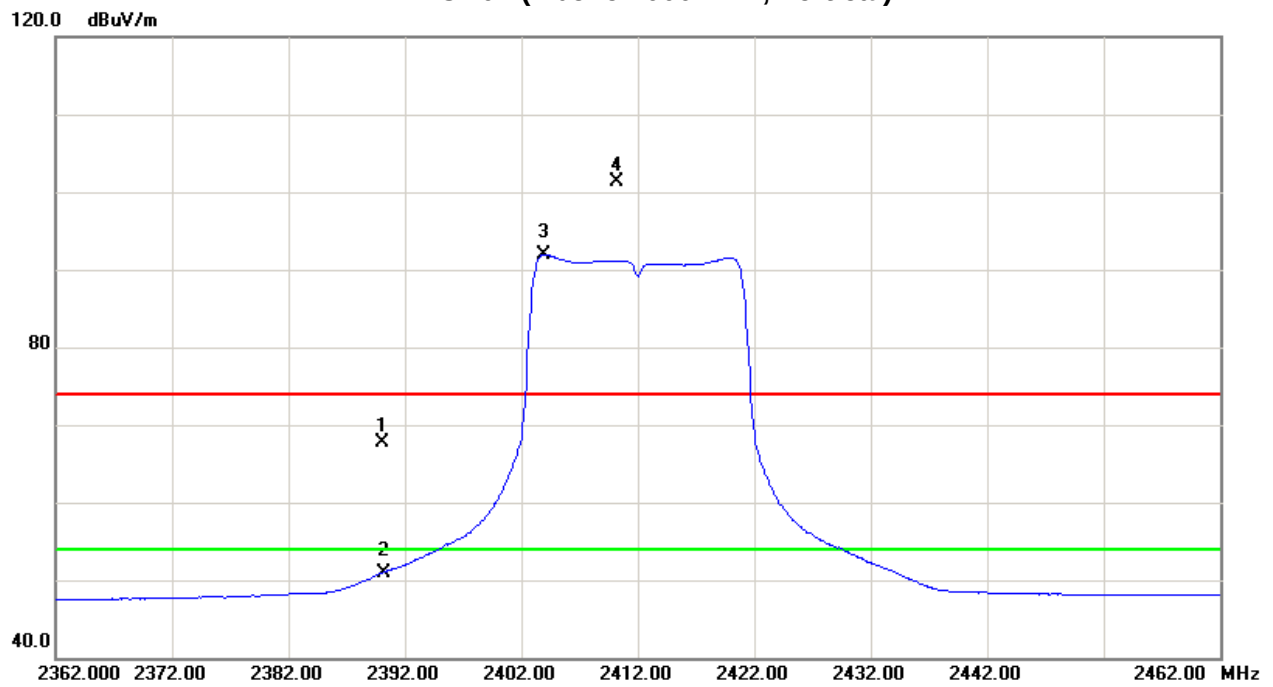
Test Mode : TX N-20M MODE 2462MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2455.70	V	64.94	56.72	34.29	99.23	91.01			X/F
2483.50	V	27.29	15.85	34.37	61.66	50.22	74.00	54.00	X/E
4922.00	V	40.87	29.42	5.65	46.52	35.07	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2454.80	H	67.22	58.21	34.29	101.51	92.50			X/F
2483.50	H	29.13	16.38	34.37	63.50	50.75	74.00	54.00	X/E
4924.30	H	39.12	28.25	5.65	44.77	33.90	74.00	54.00	X/H

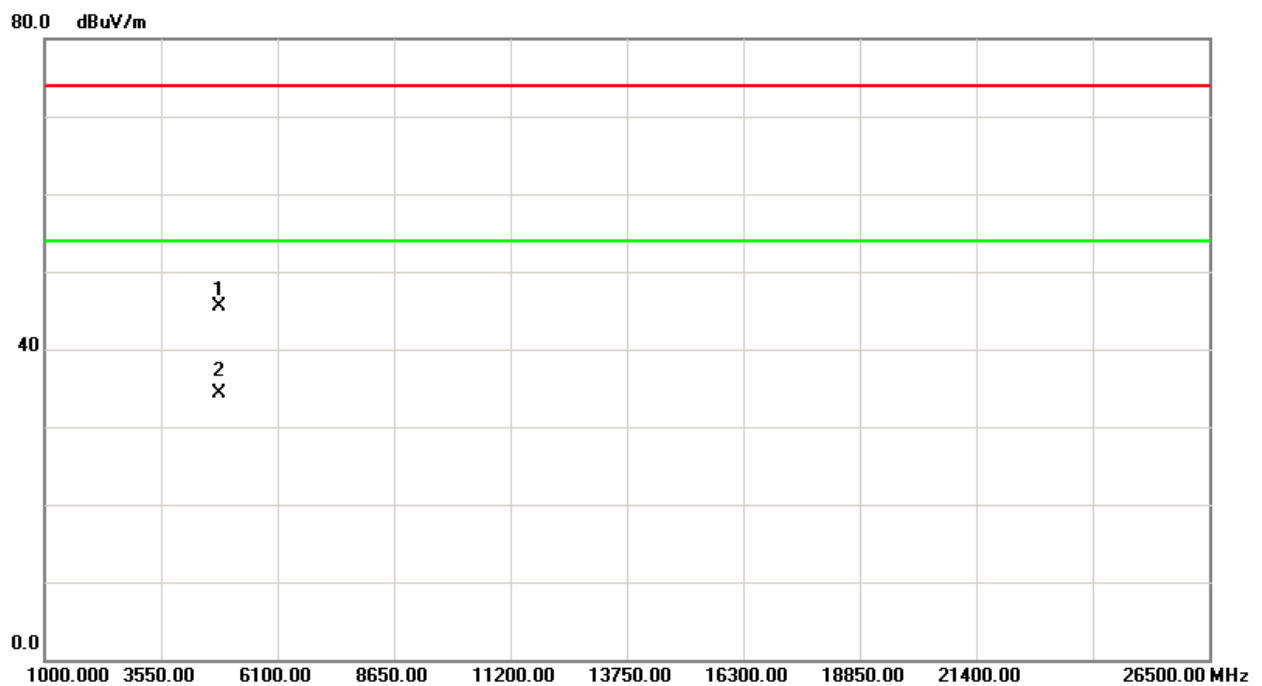
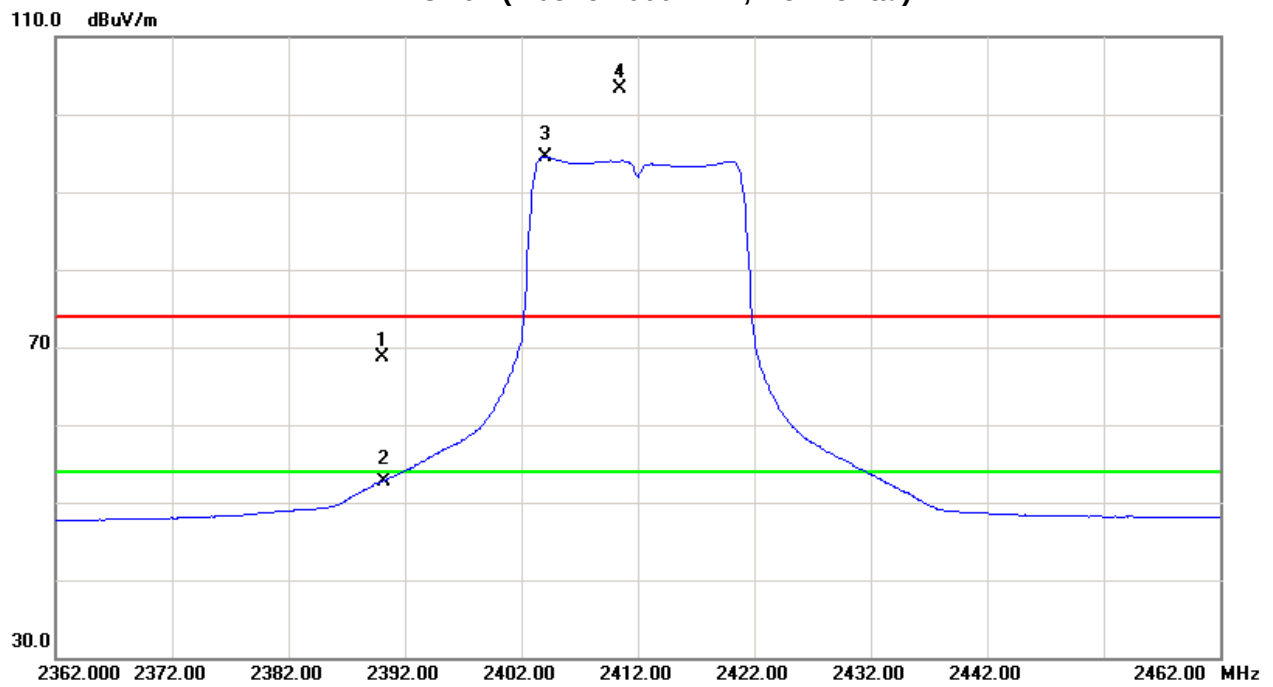


TX CH01 (Above 1000 MHz, Vertical)



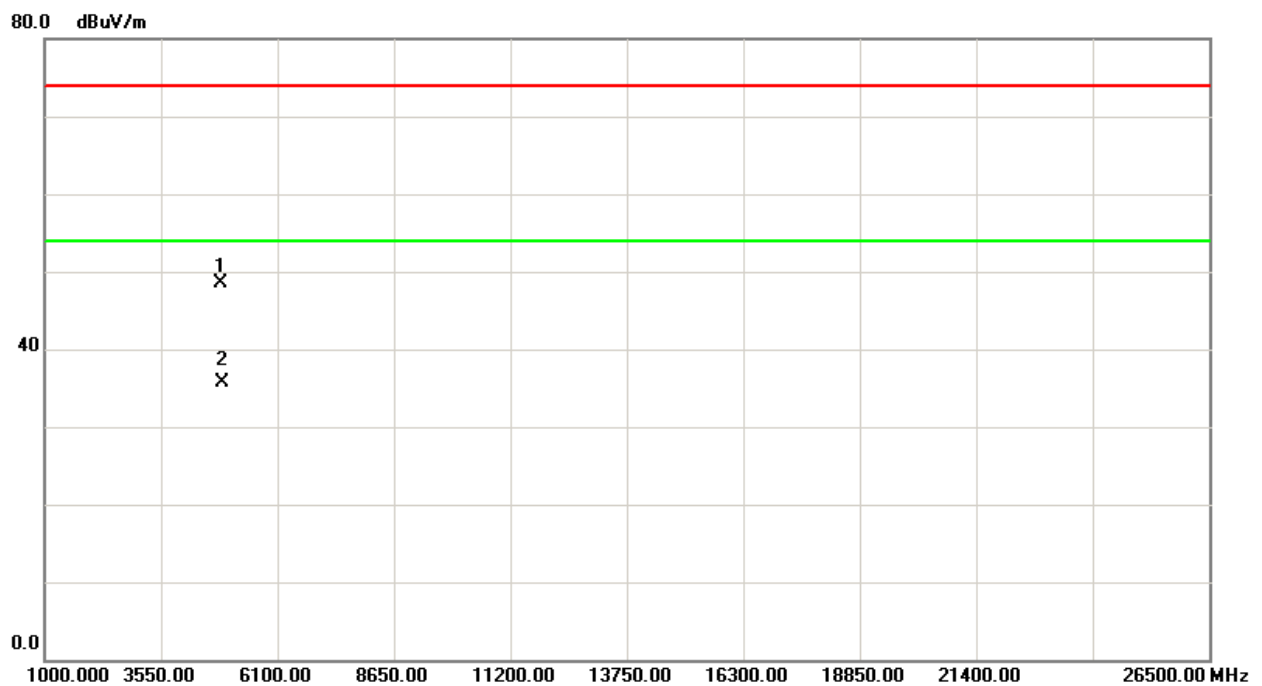
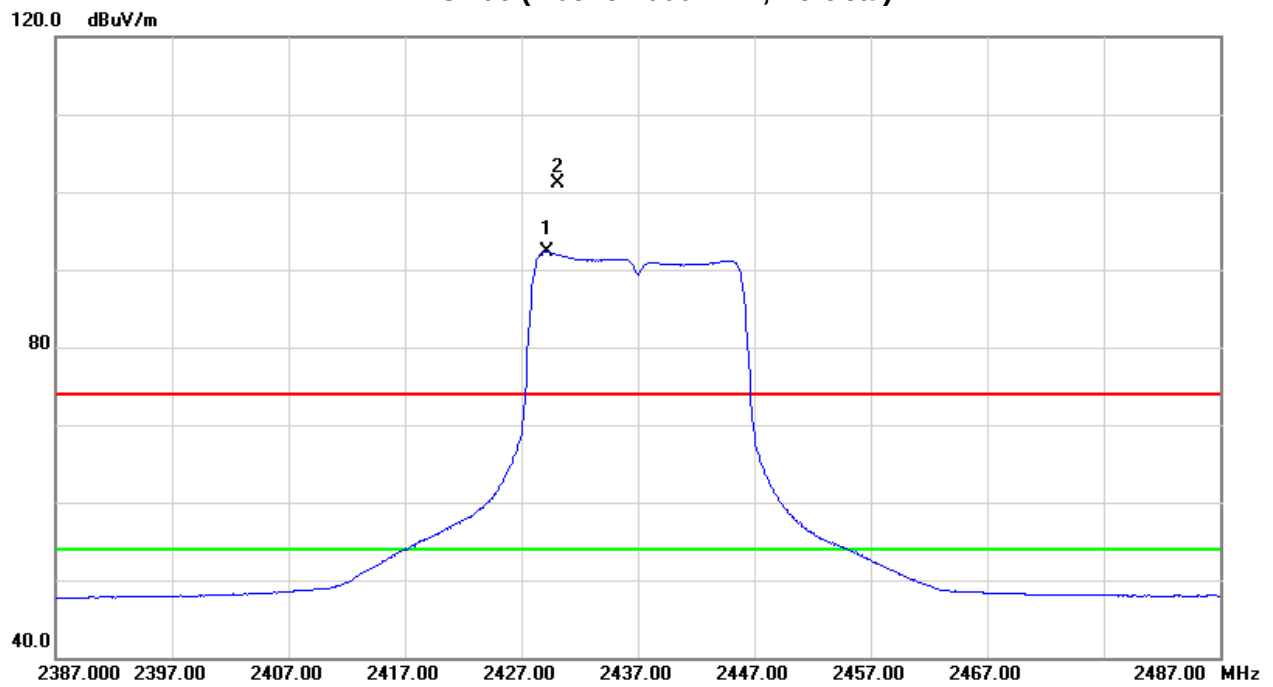


TX CH01 (Above 1000 MHz, Horizontal)



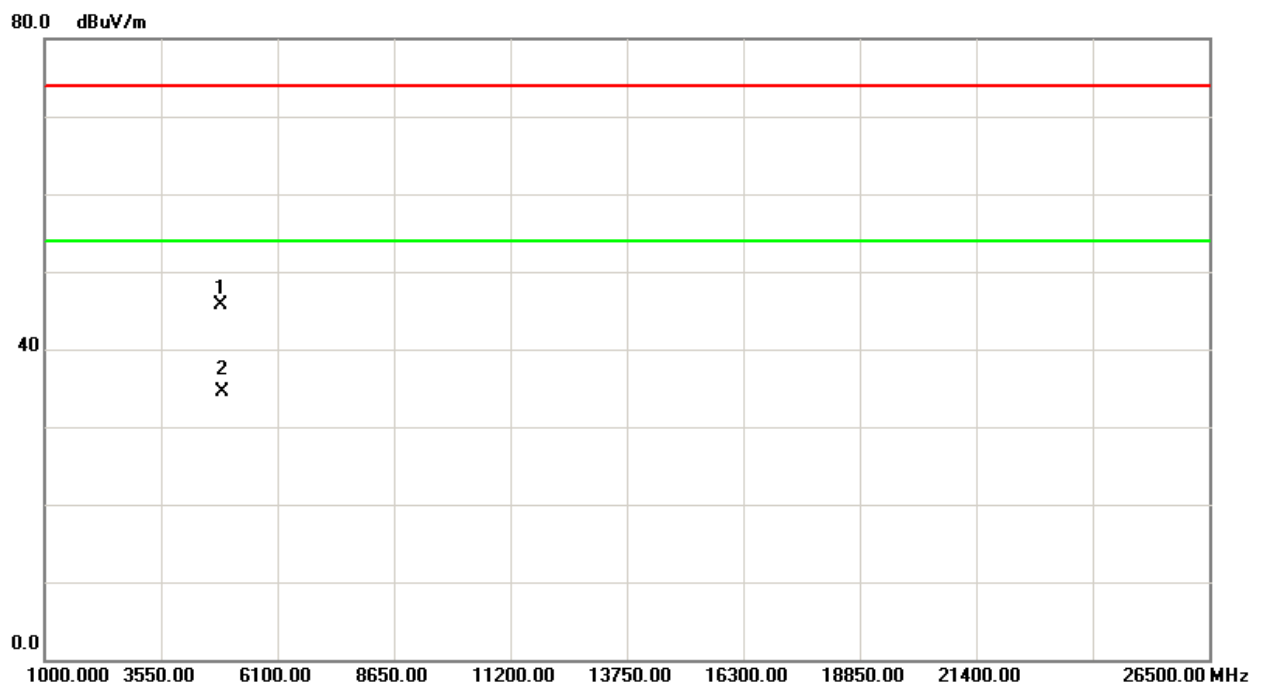
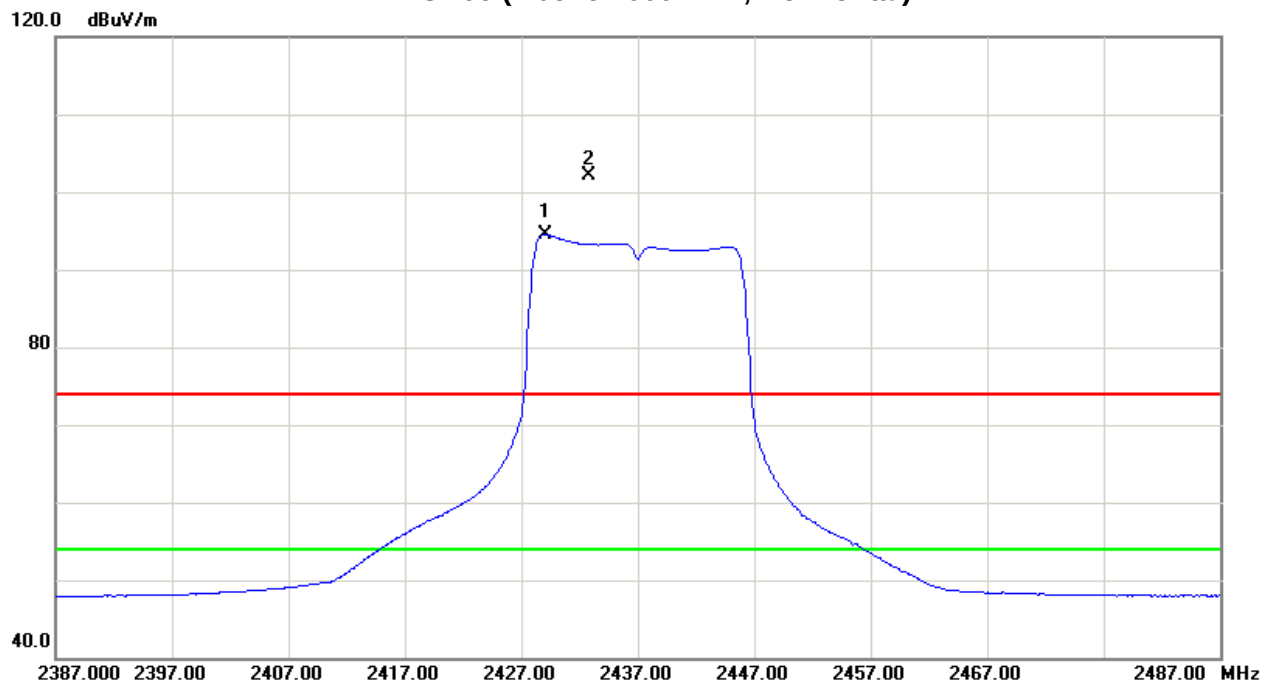


TX CH06 (Above 1000 MHz, Vertical)



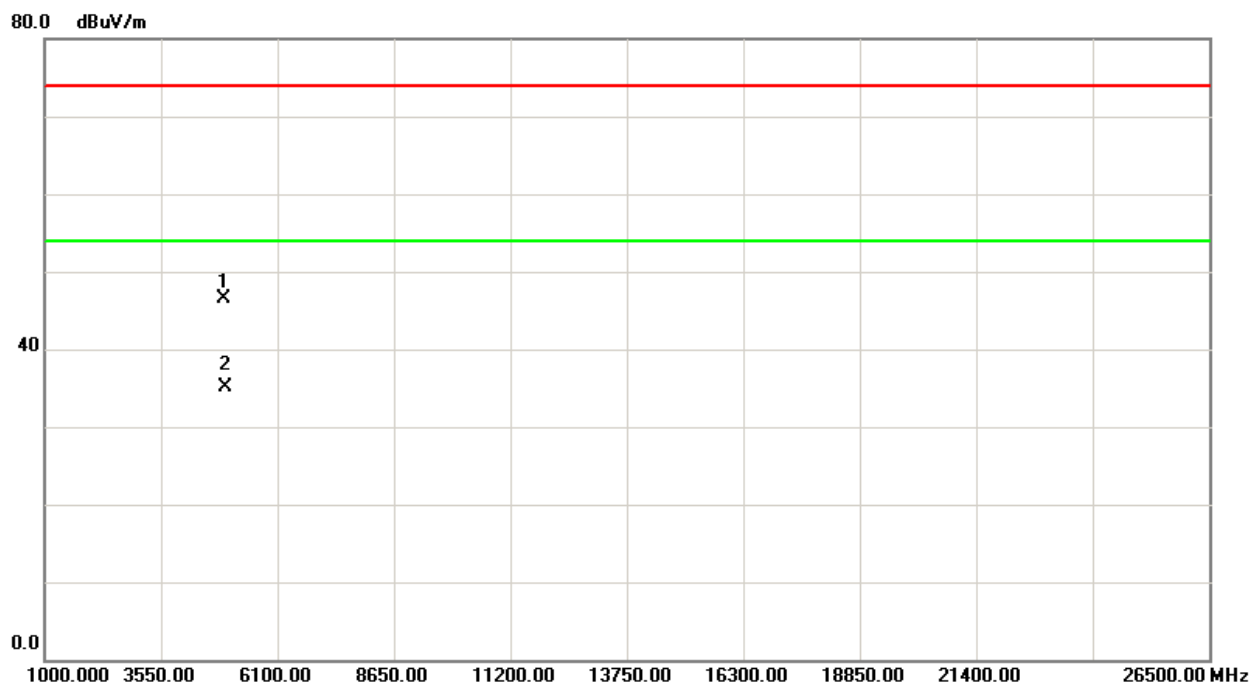
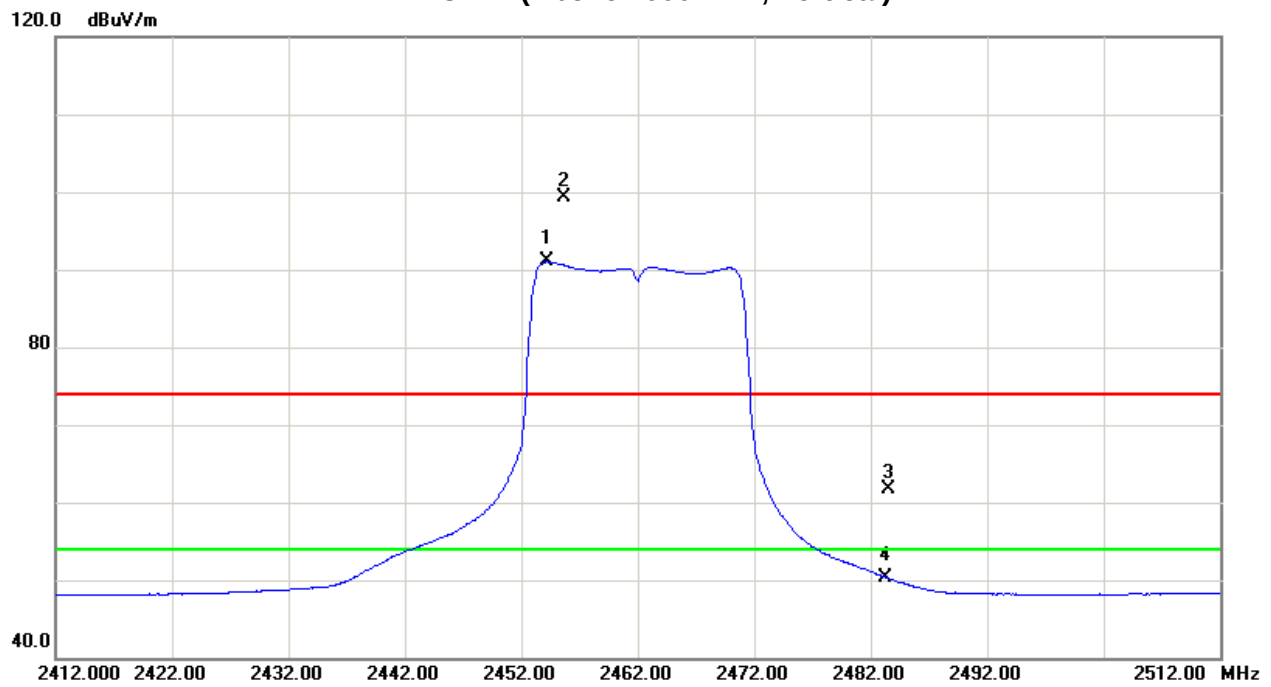


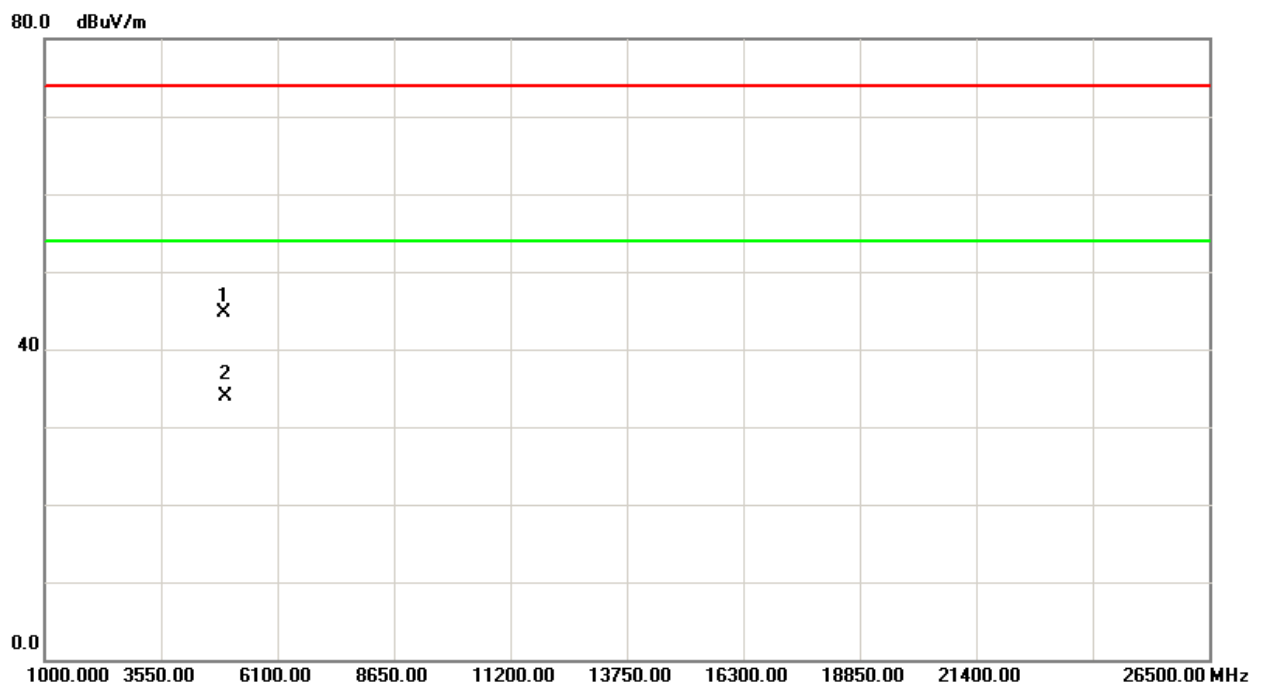
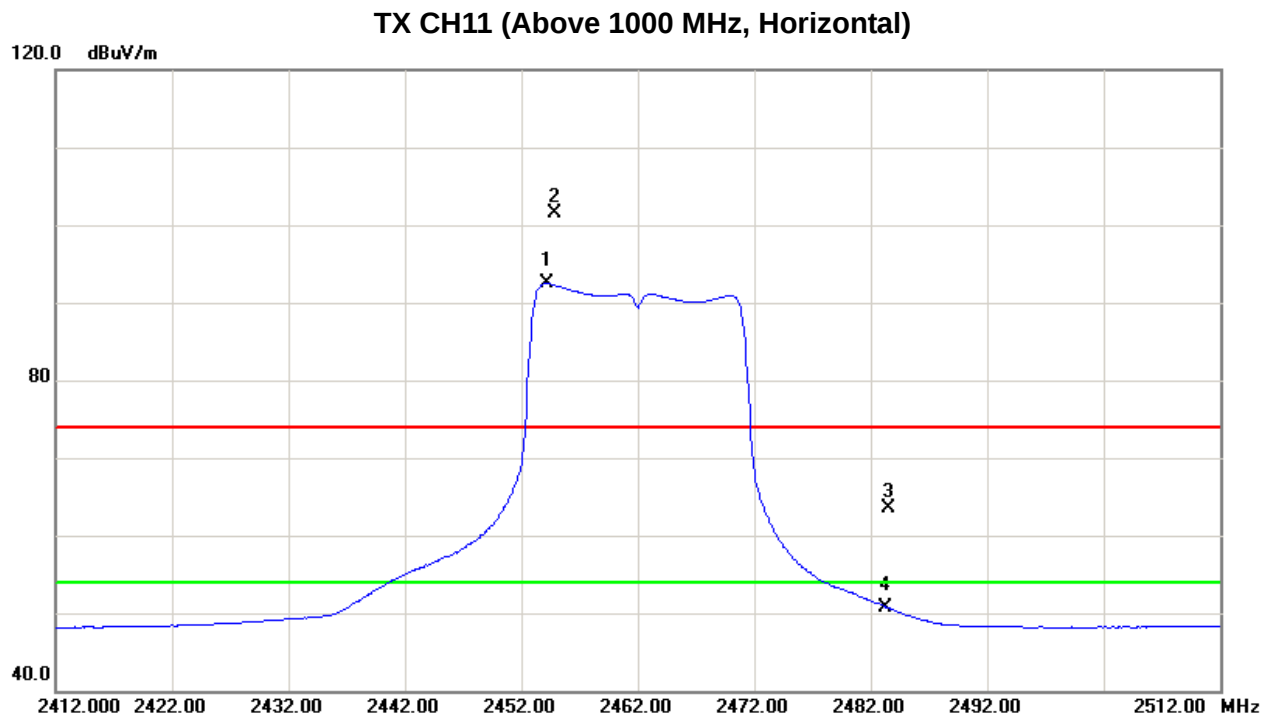
TX CH06 (Above 1000 MHz, Horizontal)





TX CH11 (Above 1000 MHz, Vertical)







Test Mode : TX N-40M MODE 2422MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	32.06	17.33	34.09	66.15	51.42	74.00	54.00	X/E
2427.80	V	61.82	53.17	34.14	95.96	87.31			X/F
4850.21	V	40.54	28.23	5.38	45.92	33.61	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	33.07	19.30	34.09	67.16	53.39	74.00	54.00	X/E
2408.20	H	64.98	55.72	34.14	99.12	89.86			X/F
4844.50	H	38.85	28.24	5.36	44.21	33.60	74.00	54.00	X/H

Test Mode : TX N-40M MODE 2437MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2433.00	V	61.84	53.37	34.22	96.06	87.59			X/F
4873.86	V	41.32	30.16	5.47	46.79	35.63	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2423.60	H	64.72	55.70	34.19	98.91	89.89			X/F
4874.32	H	38.98	29.13	5.47	44.45	34.60	74.00	54.00	X/H

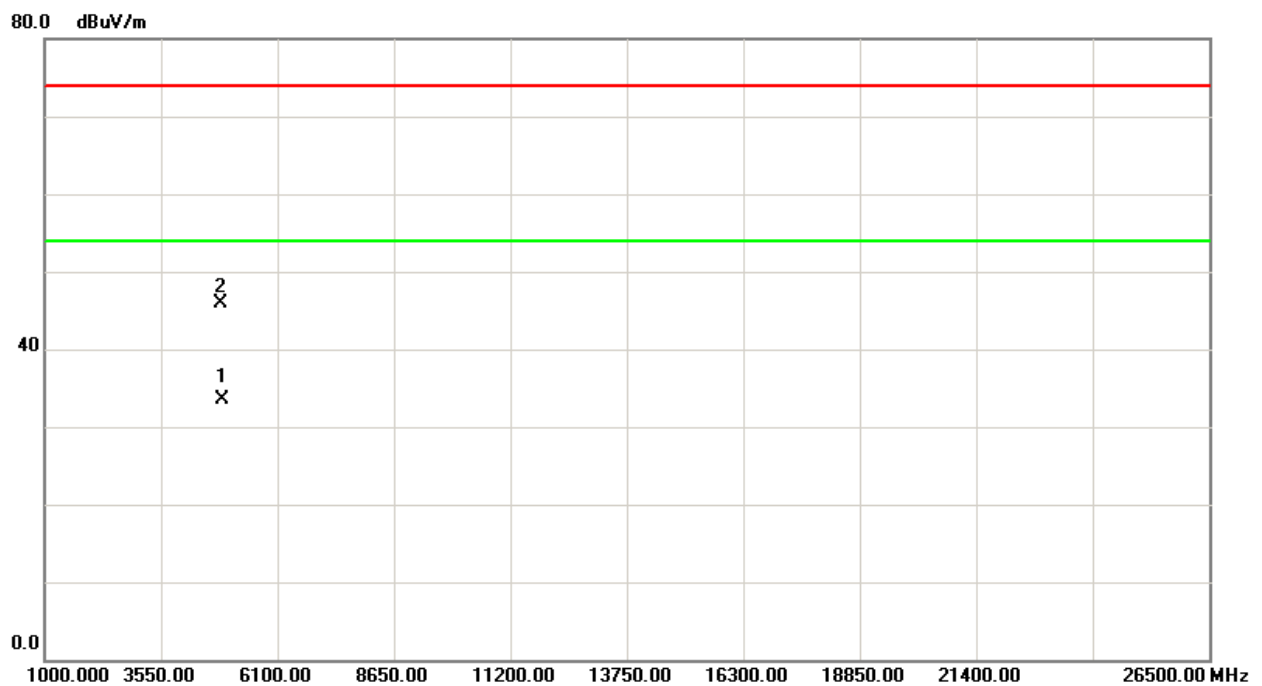
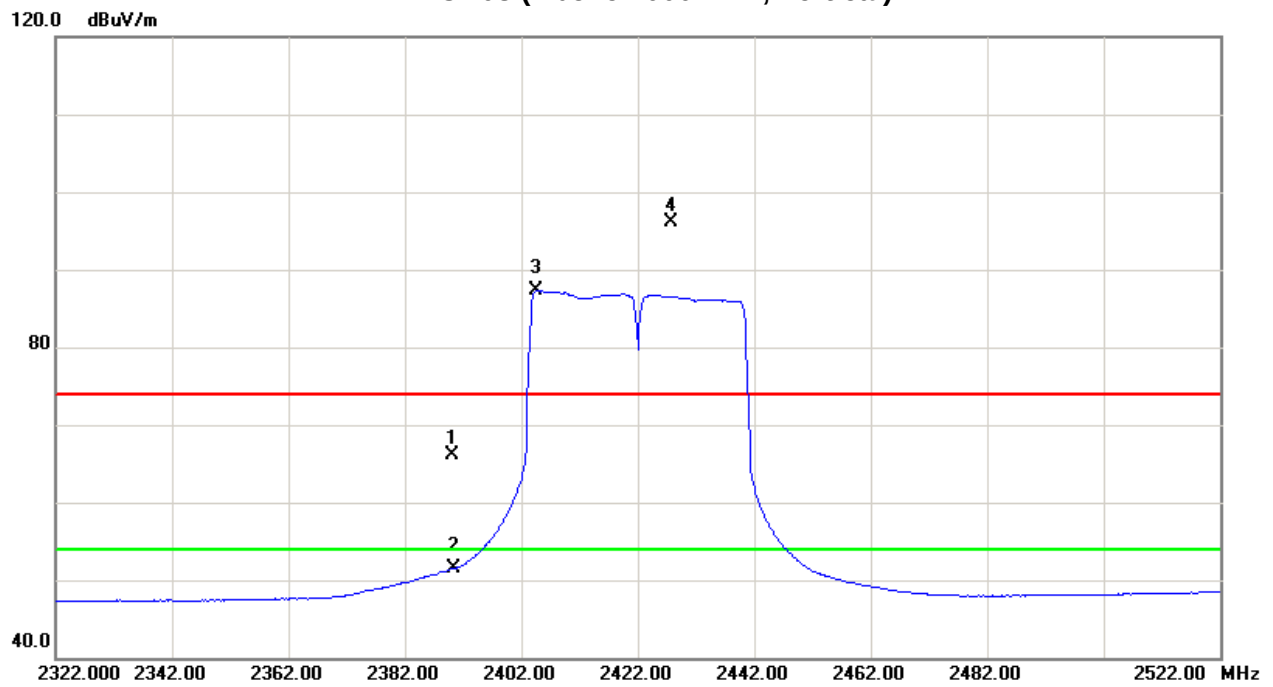
Test Mode : TX N-40M MODE 2452MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.40	V	61.31	52.23	34.23	95.54	86.46			X/F
2483.50	V	27.84	15.74	34.37	62.21	50.11	74.00	54.00	X/E
4904.20	V	42.32	31.61	5.58	47.90	37.19	74.00	54.00	X/H

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.40	H	63.52	55.11	34.23	97.75	89.34			X/F
2483.50	H	28.07	16.29	34.37	62.44	50.66	74.00	54.00	X/E
4903.10	H	39.17	28.41	5.58	44.75	33.99	74.00	54.00	X/H

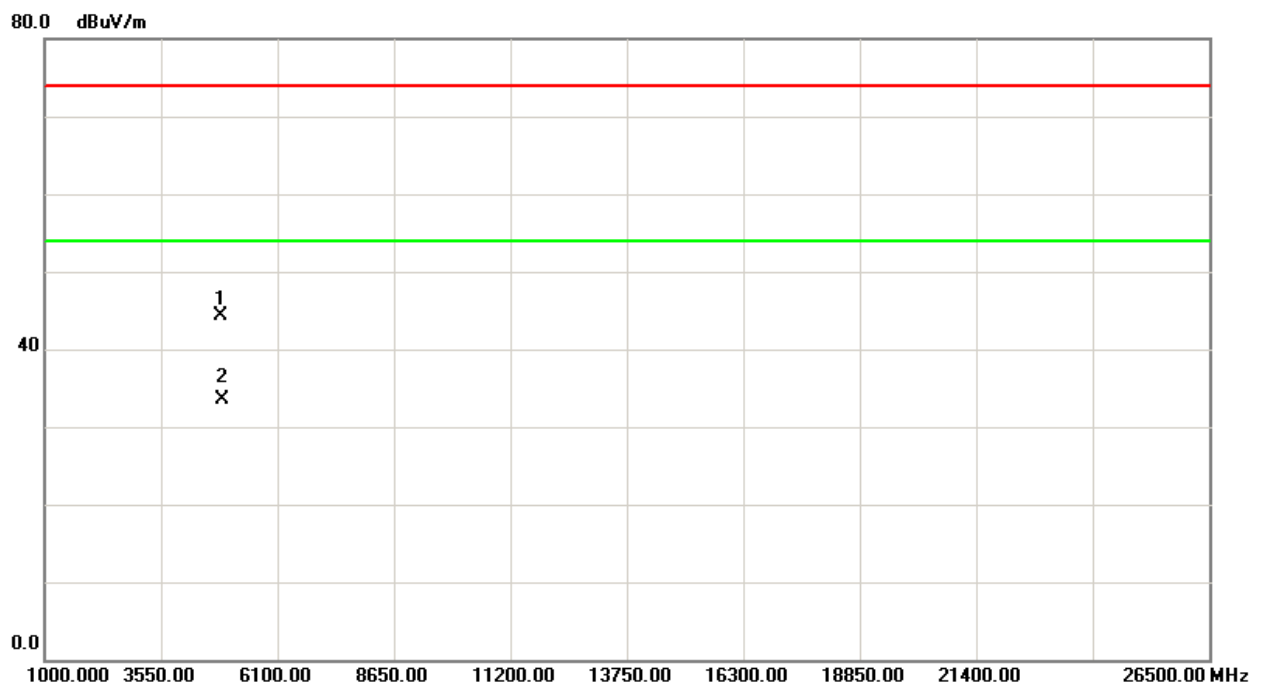
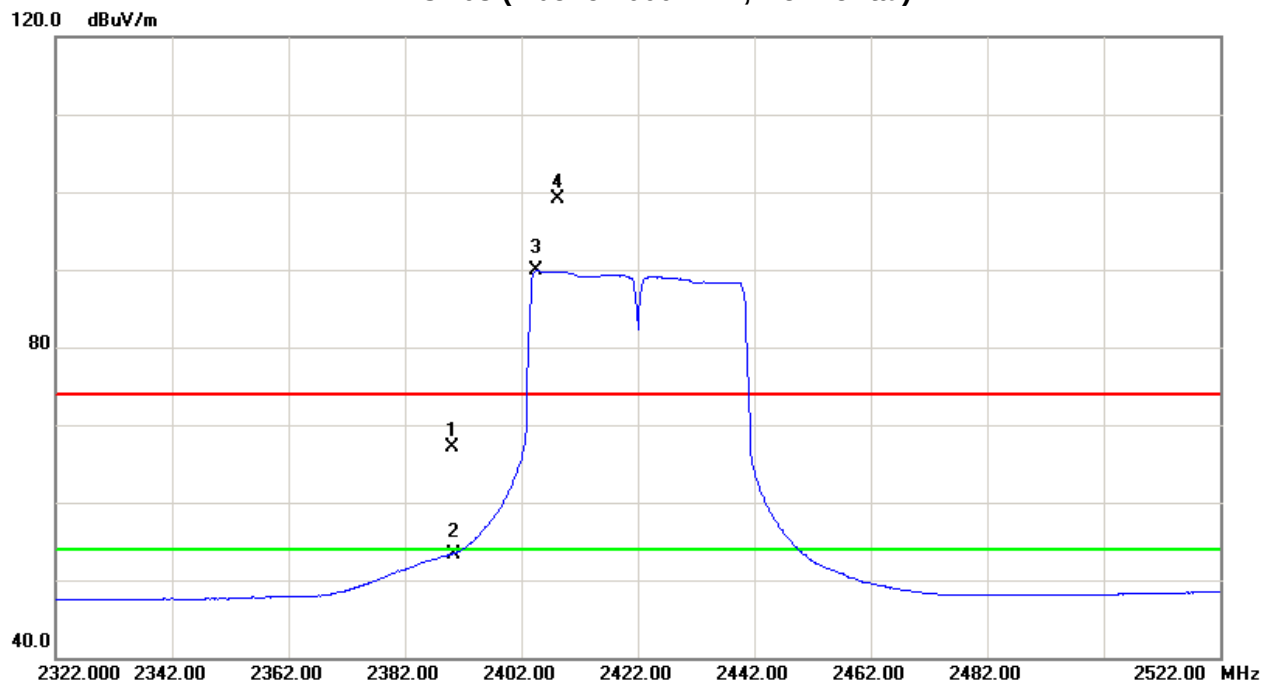


TX CH03 (Above 1000 MHz, Vertical)



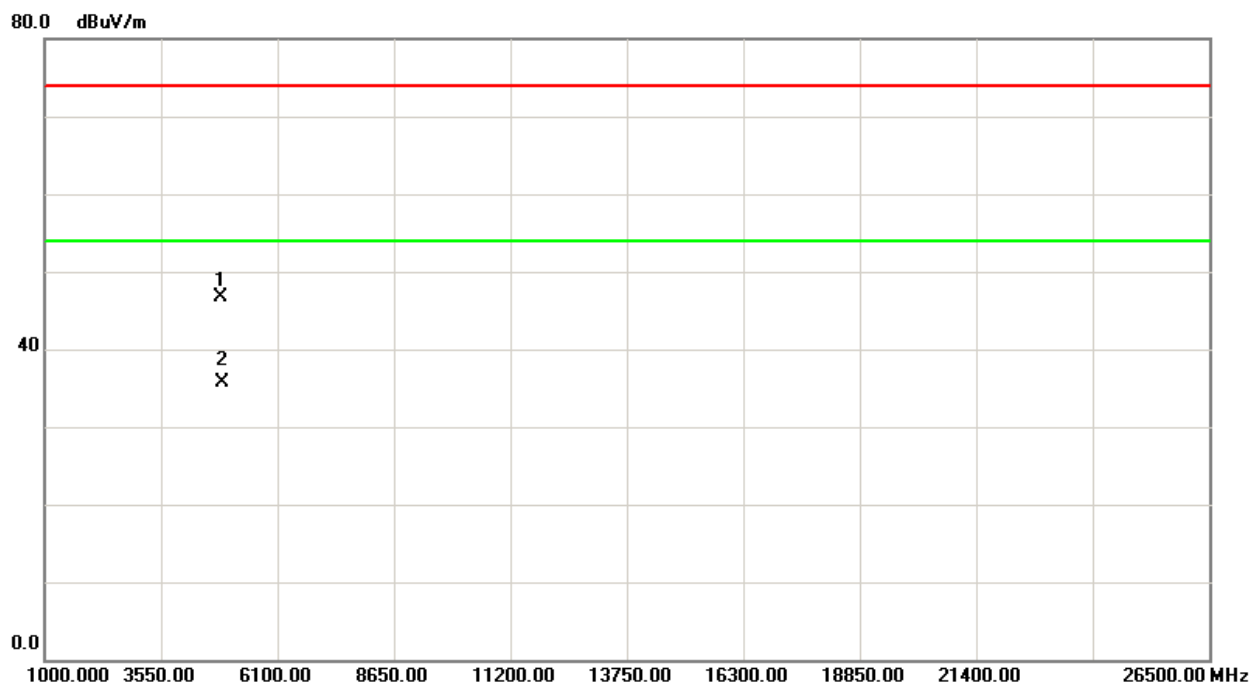
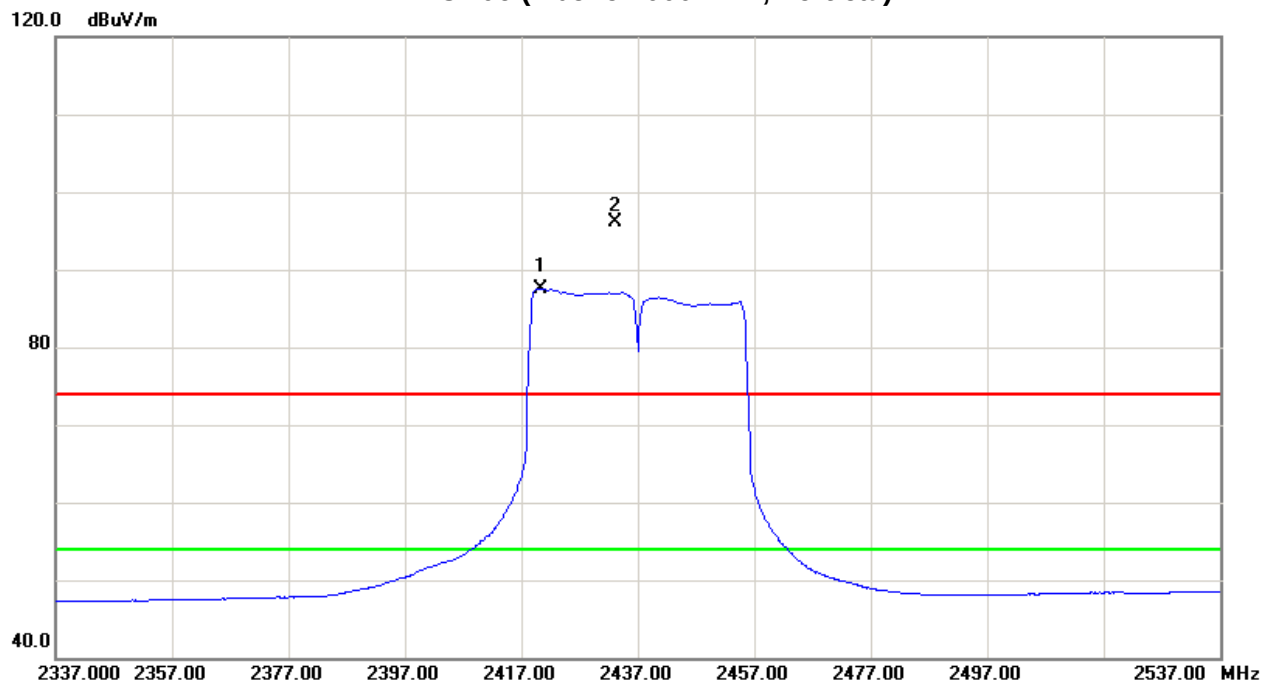


TX CH03 (Above 1000 MHz, Horizontal)



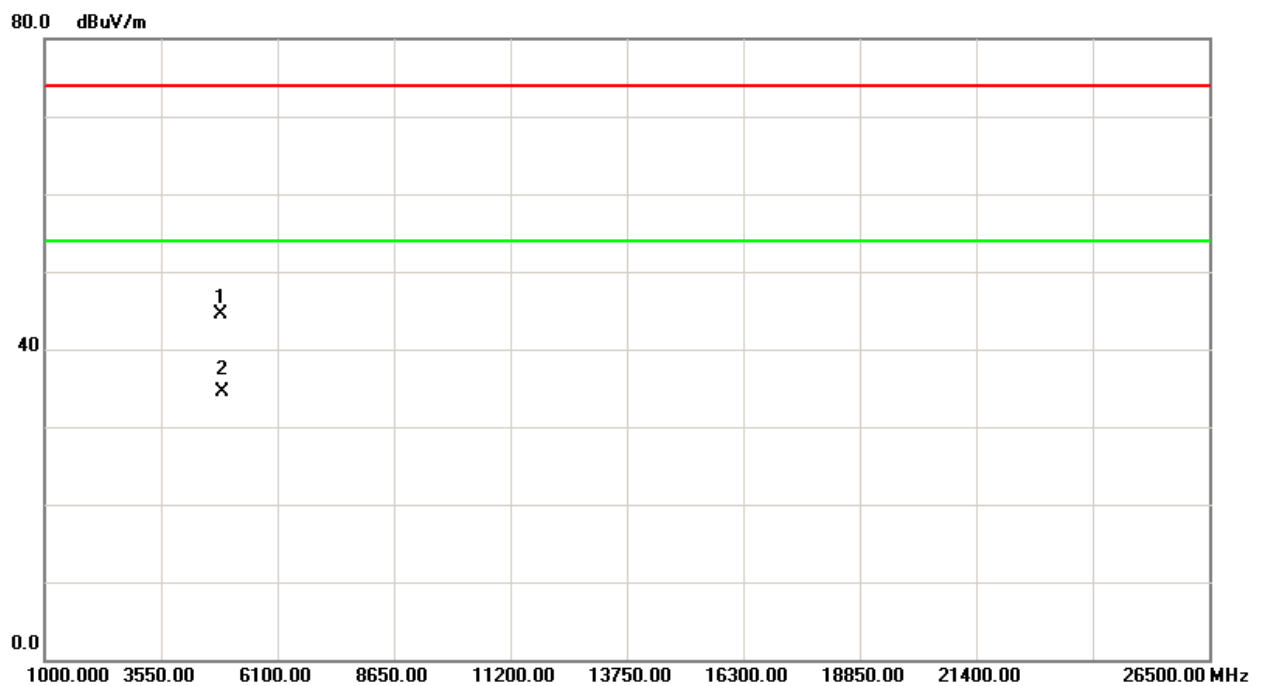
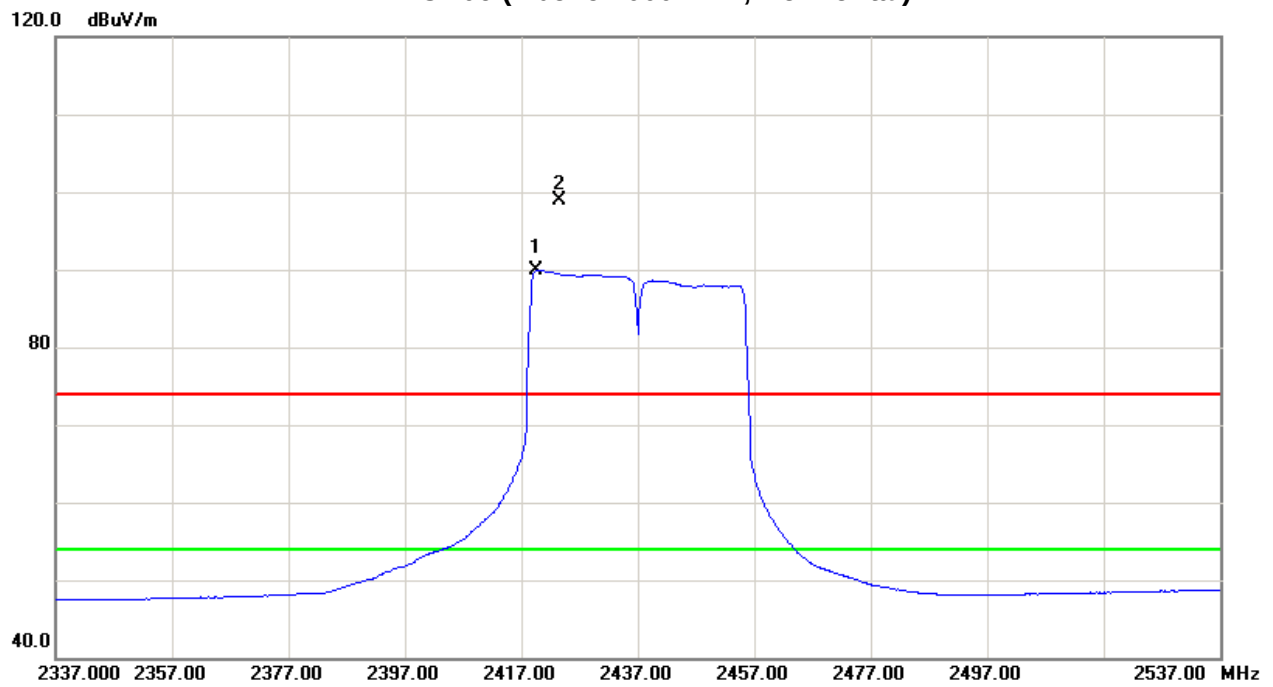


TX CH06 (Above 1000 MHz, Vertical)



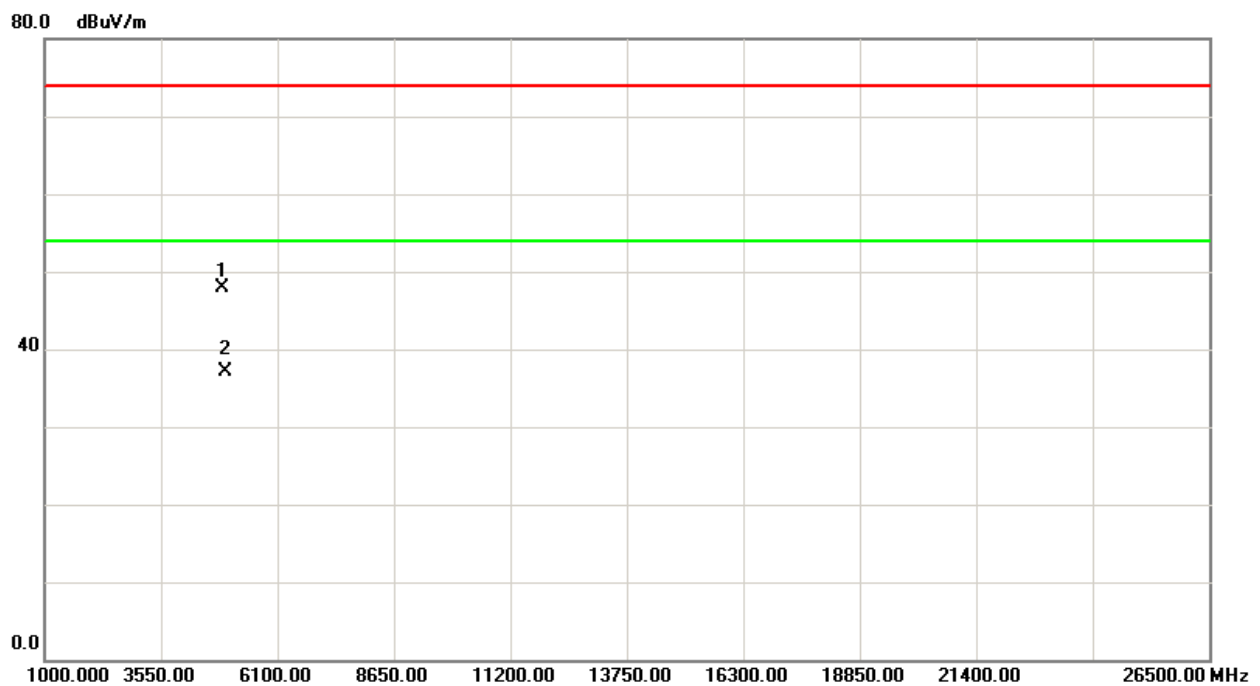
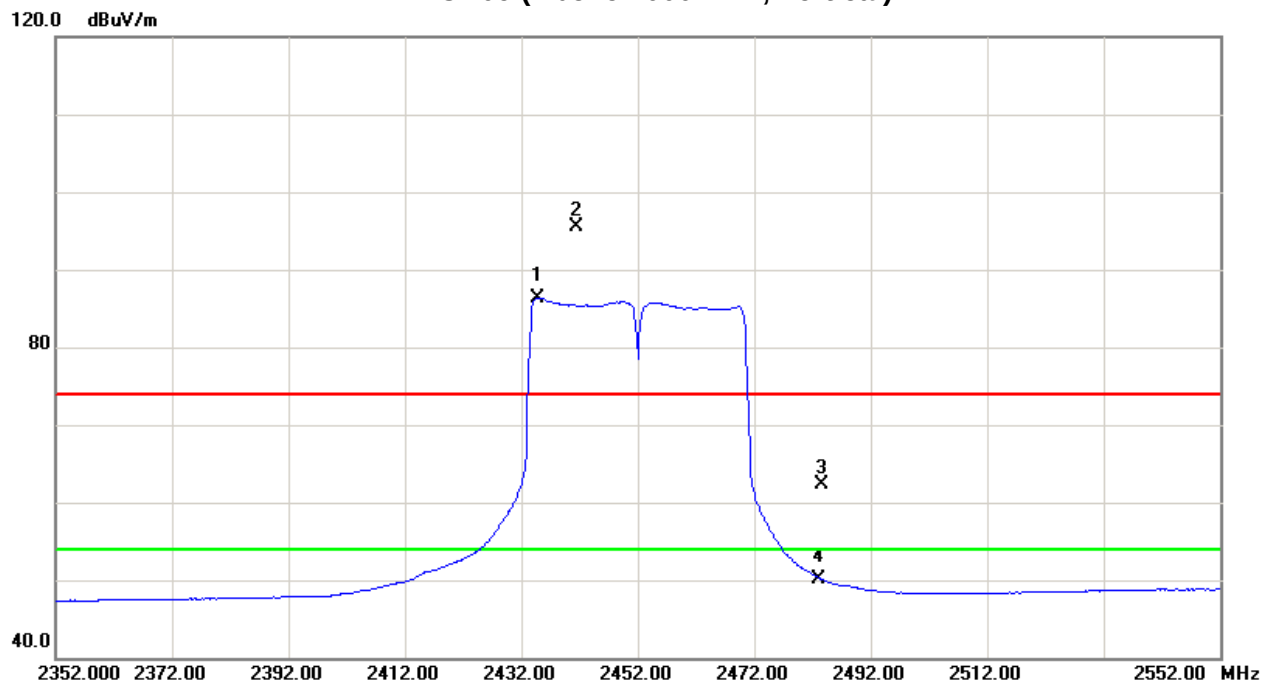


TX CH06 (Above 1000 MHz, Horizontal)



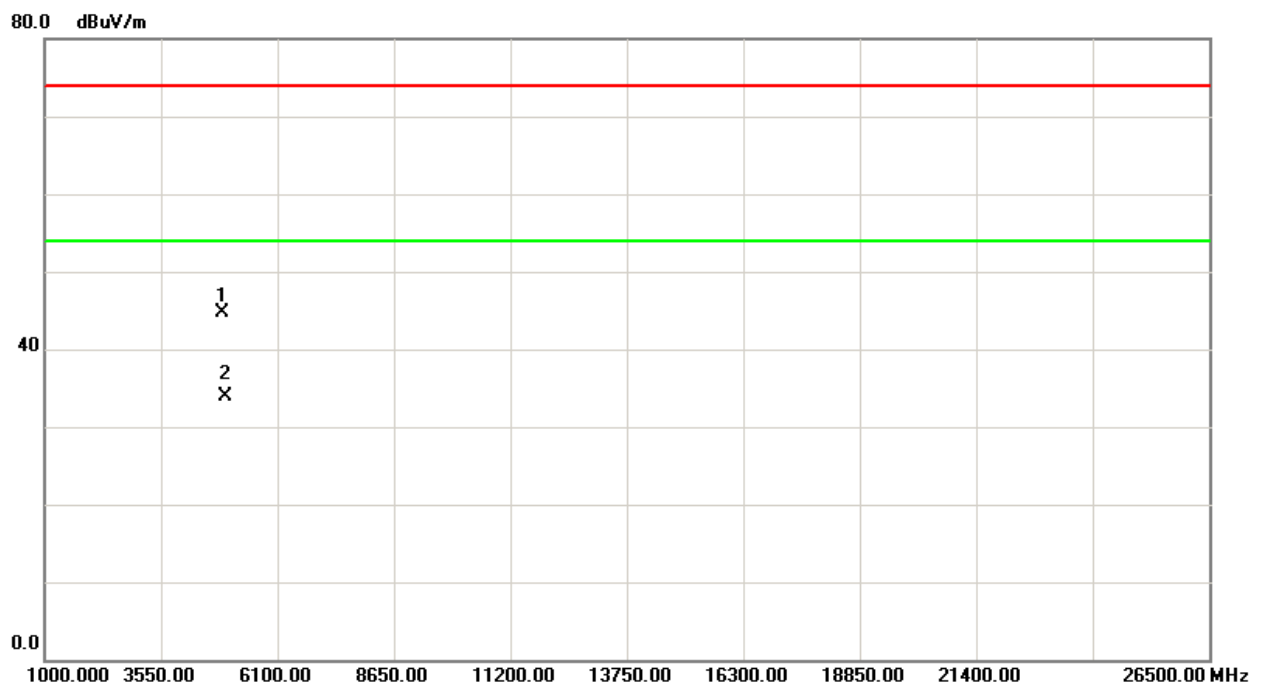
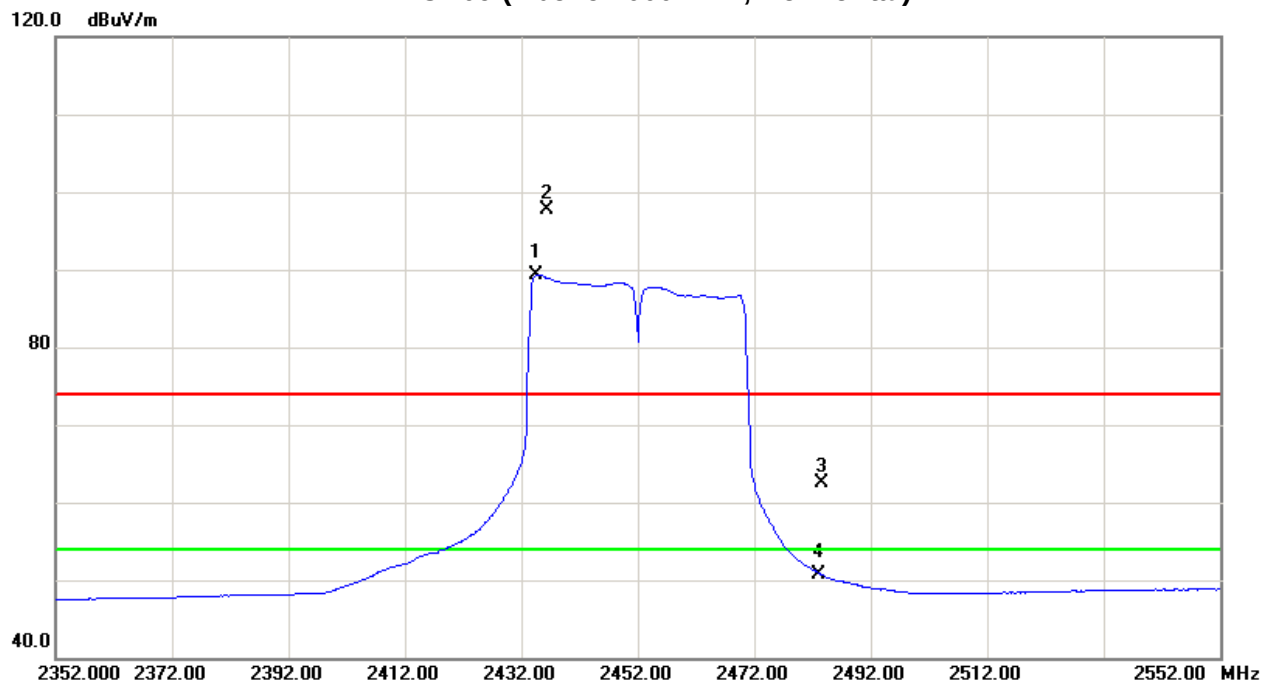


TX CH09 (Above 1000 MHz, Vertical)





TX CH09 (Above 1000 MHz, Horizontal)





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

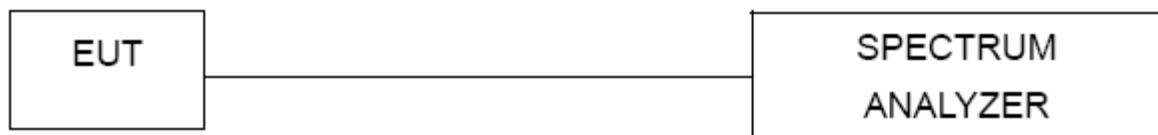
5.1.1 TEST PROCEDURE

- 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.

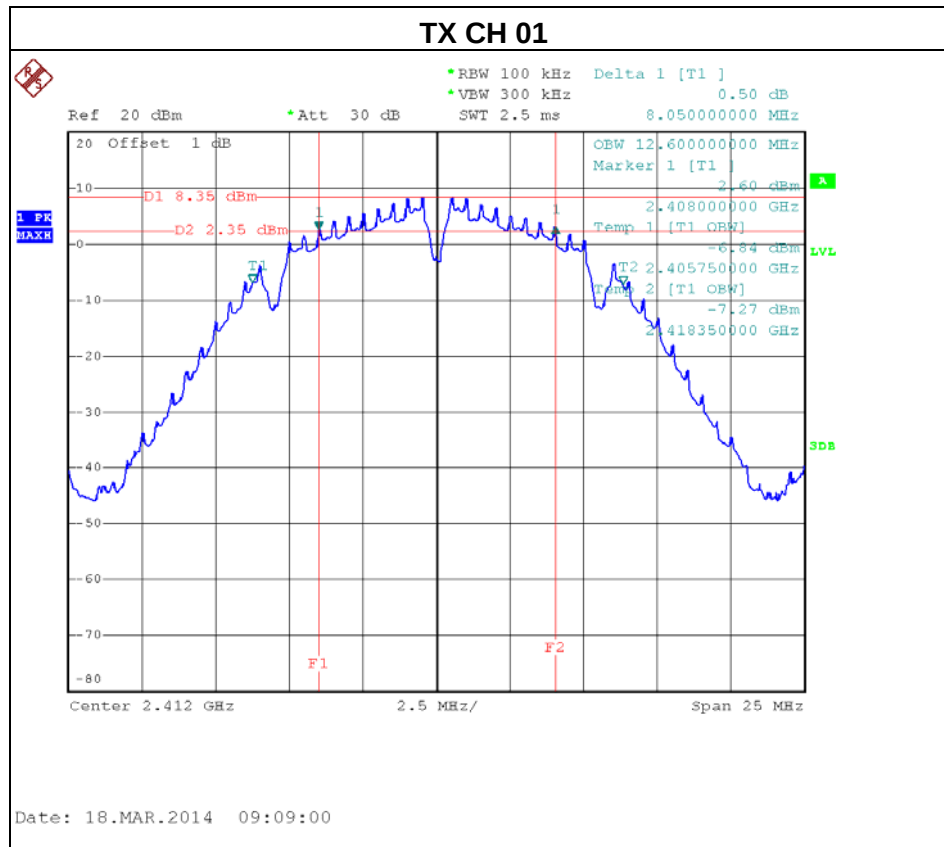
5.1.5 EUT TEST CONDITIONS

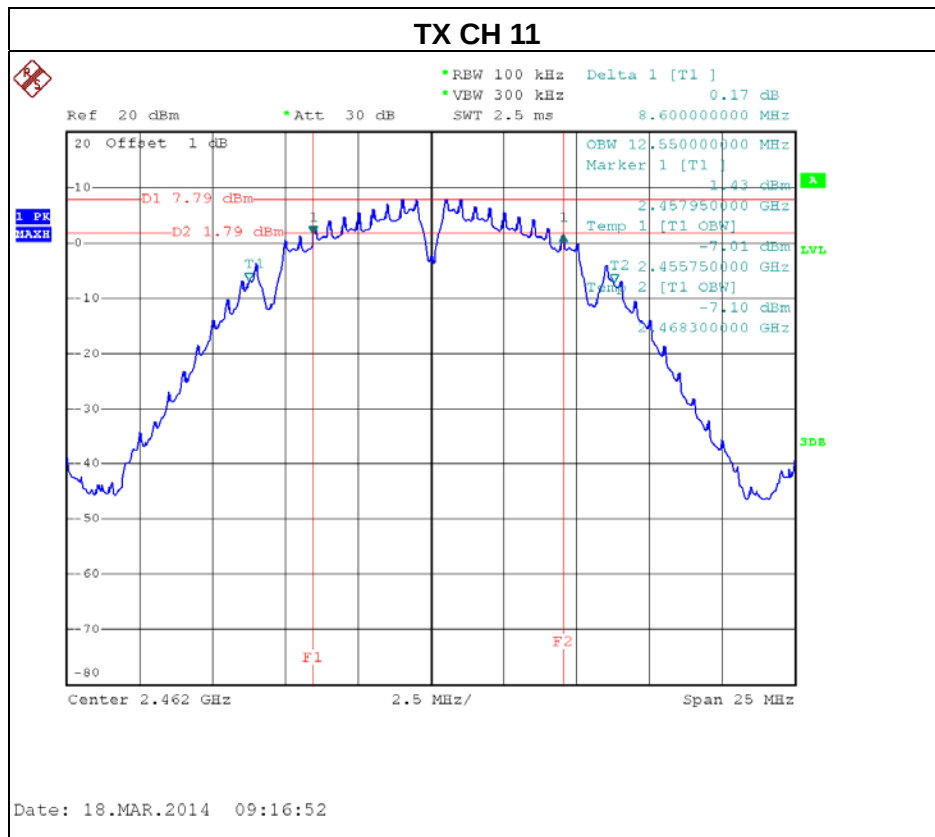
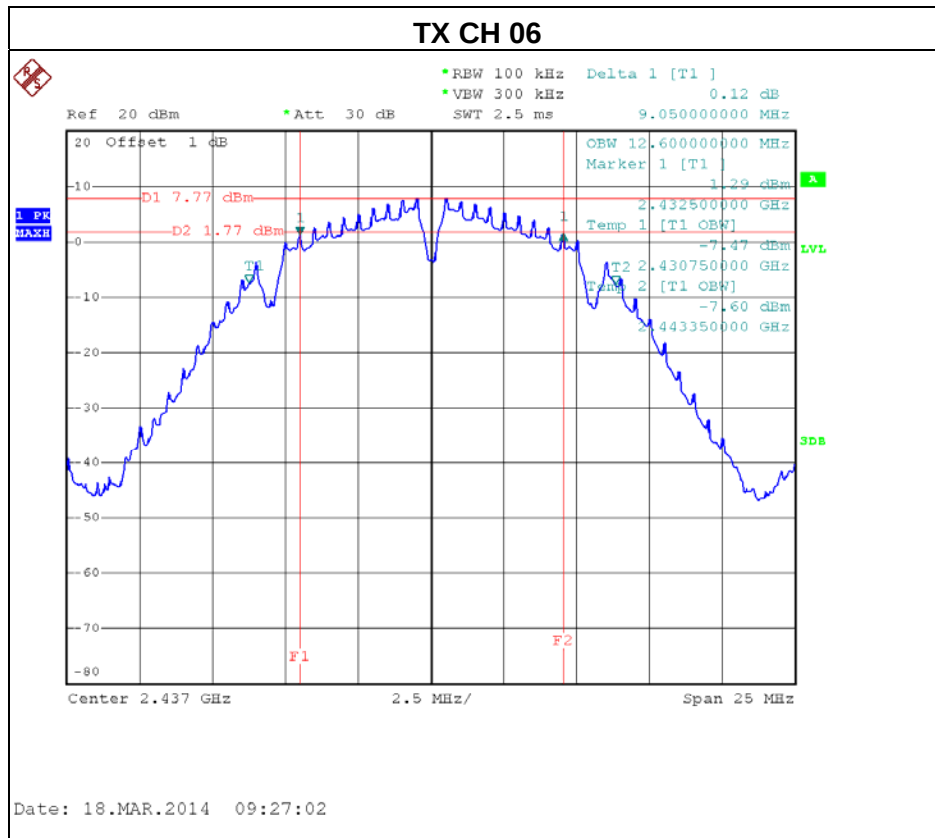
Temperature: 25°C
Relative Humidity: 55%
Test Voltage: DC 3.7V



5.1.6 TEST RESULTS

Test Mode : TX B Mode_CH01/06/11

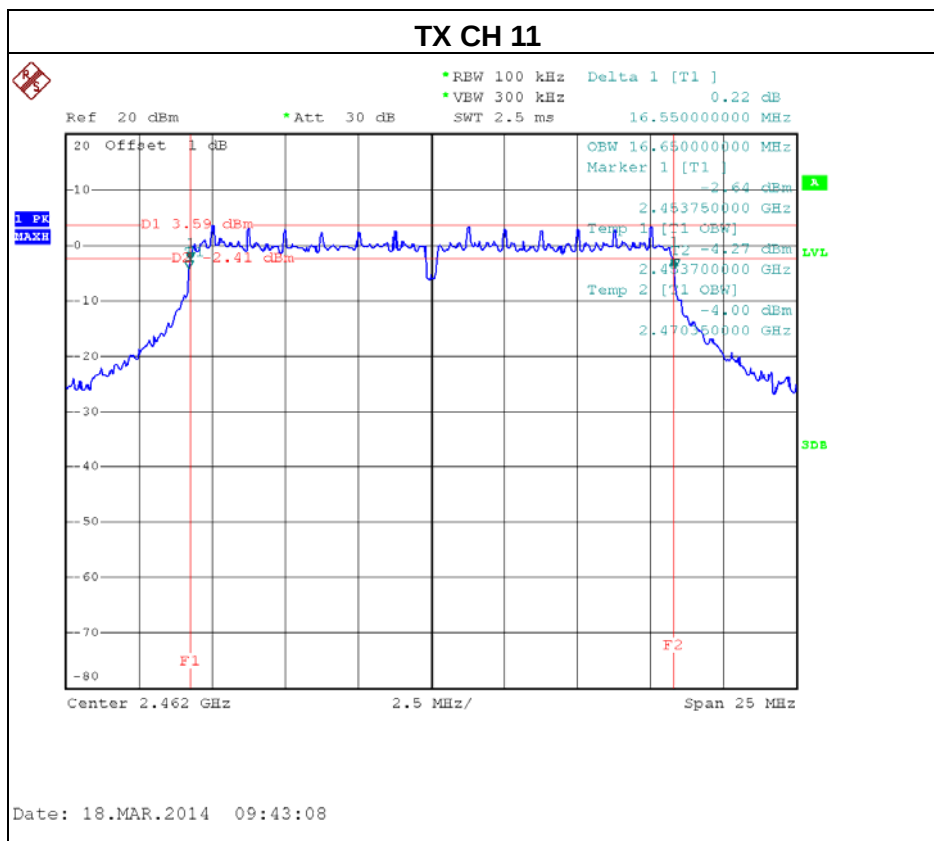
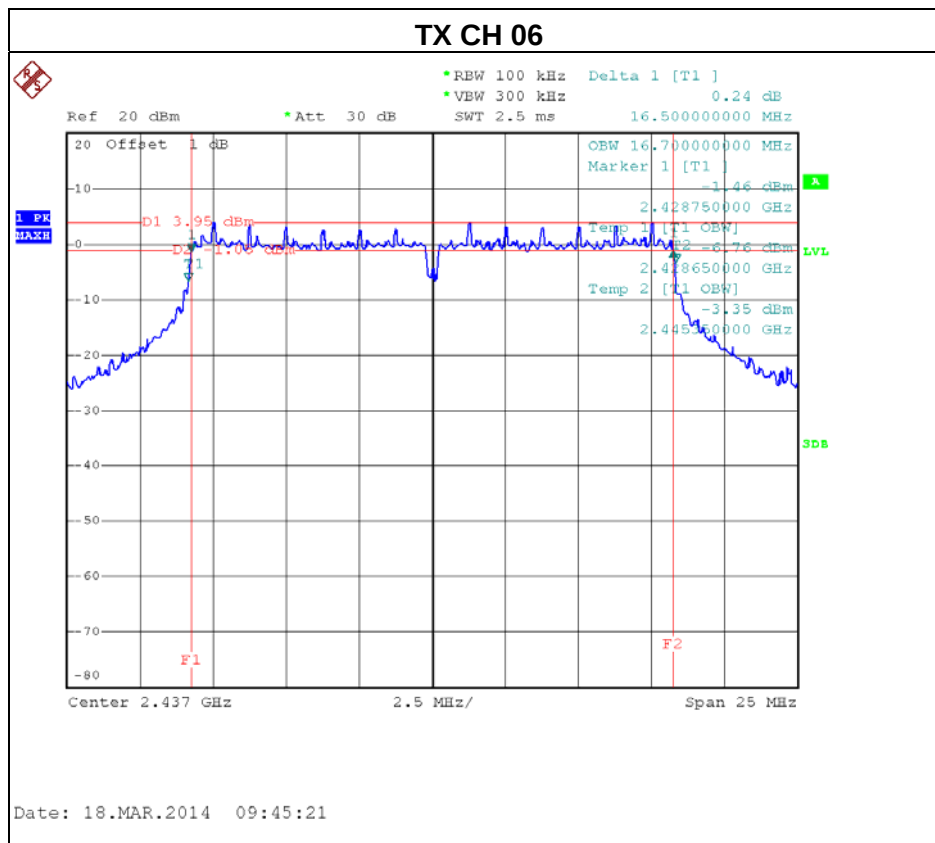






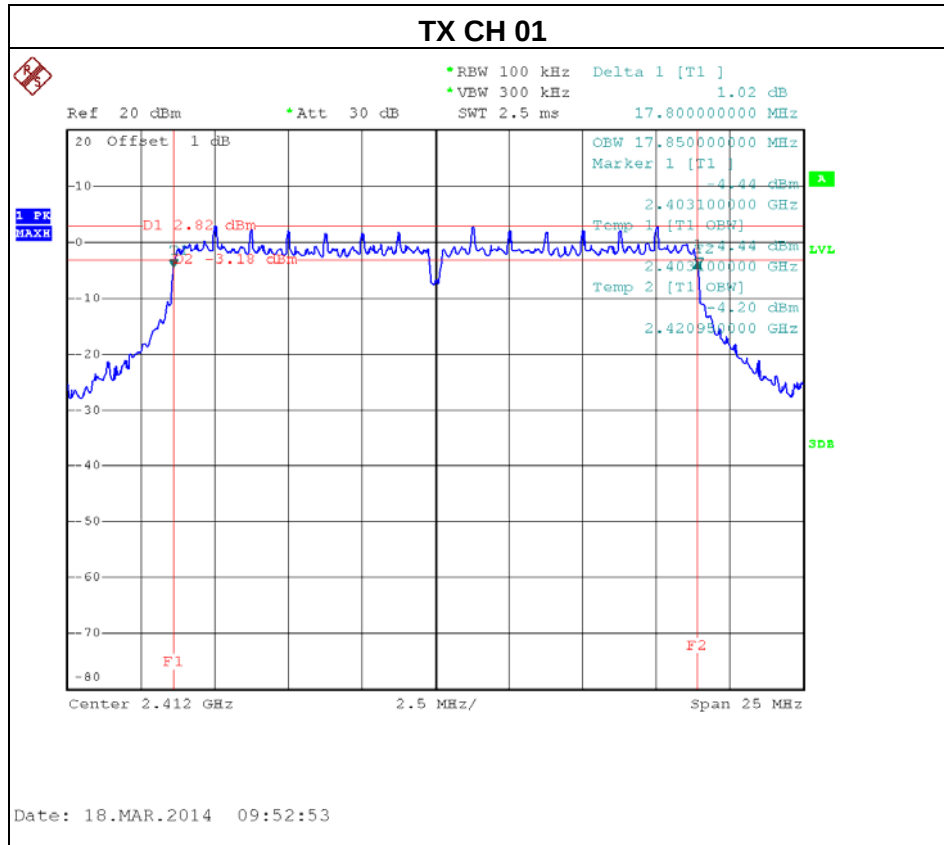
TX CH 01

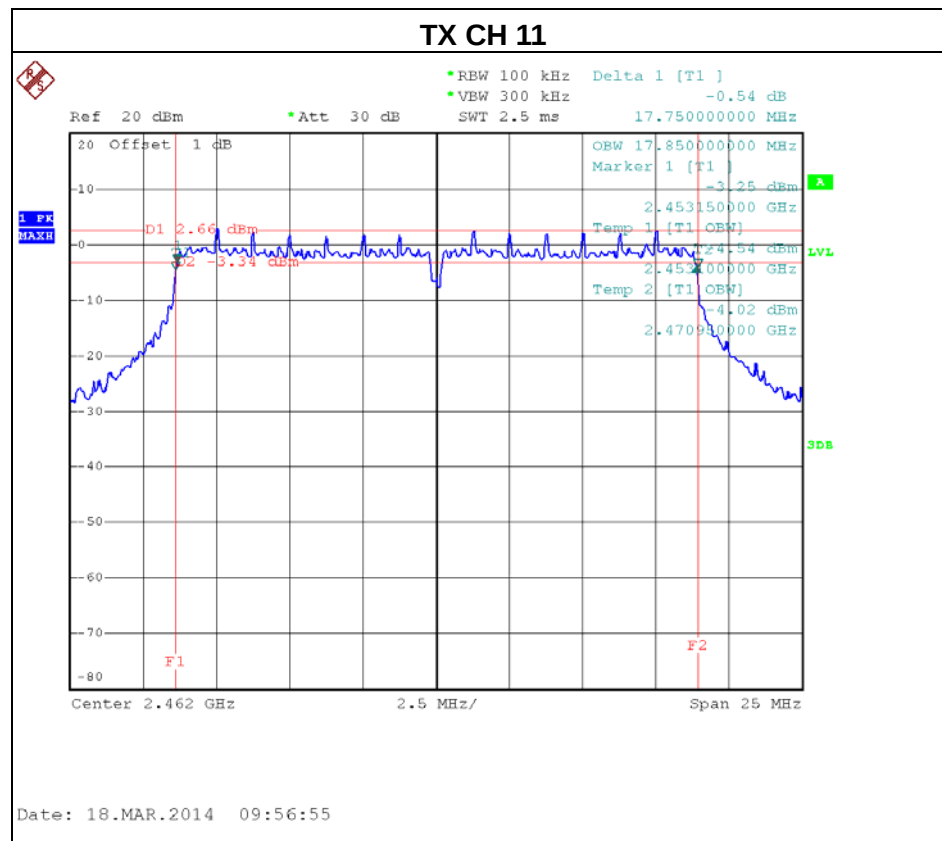
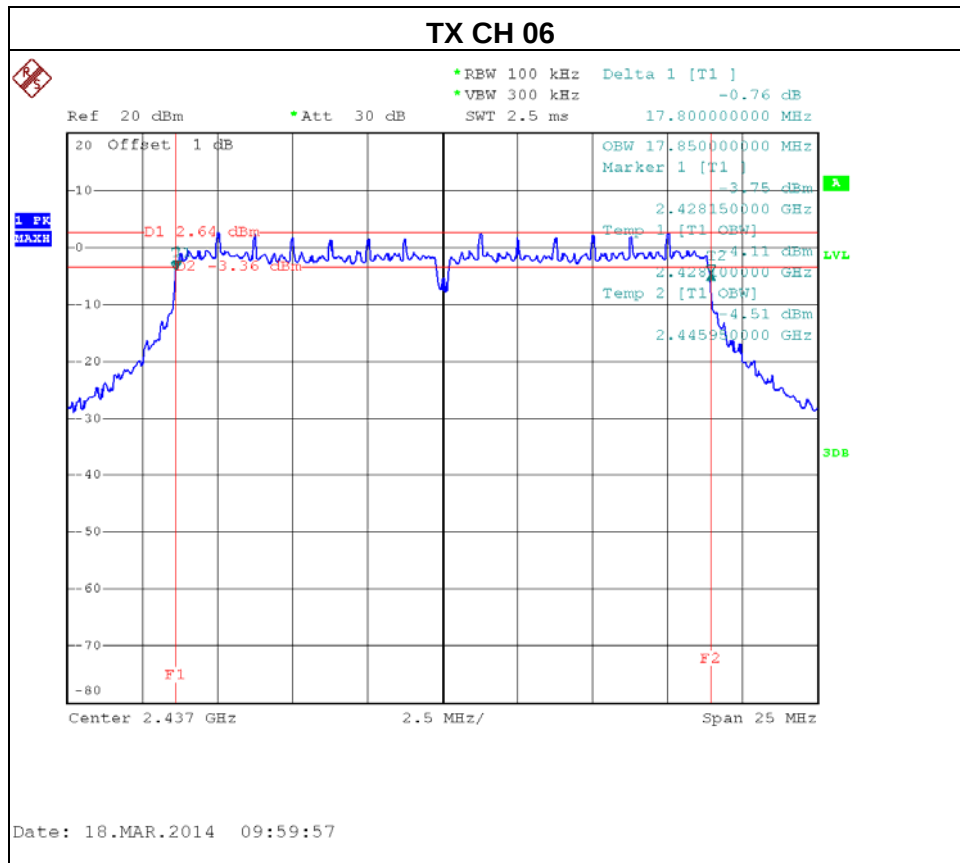






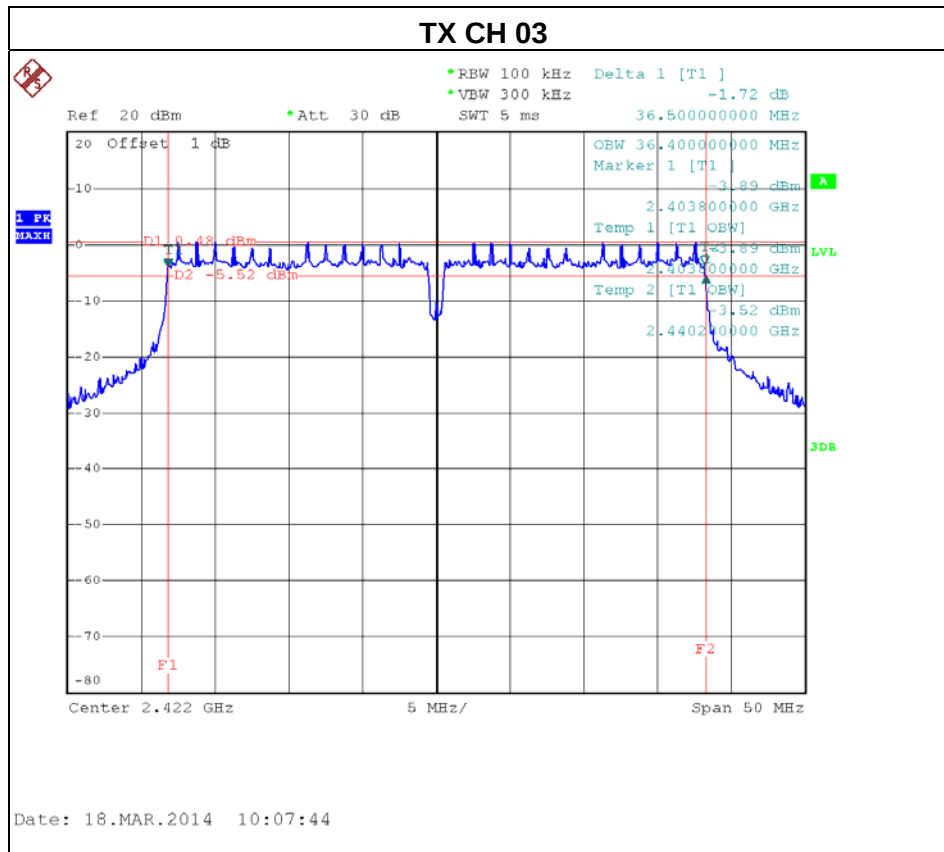
Test Mode : TX N-20MHz Mode_CH01/06/11

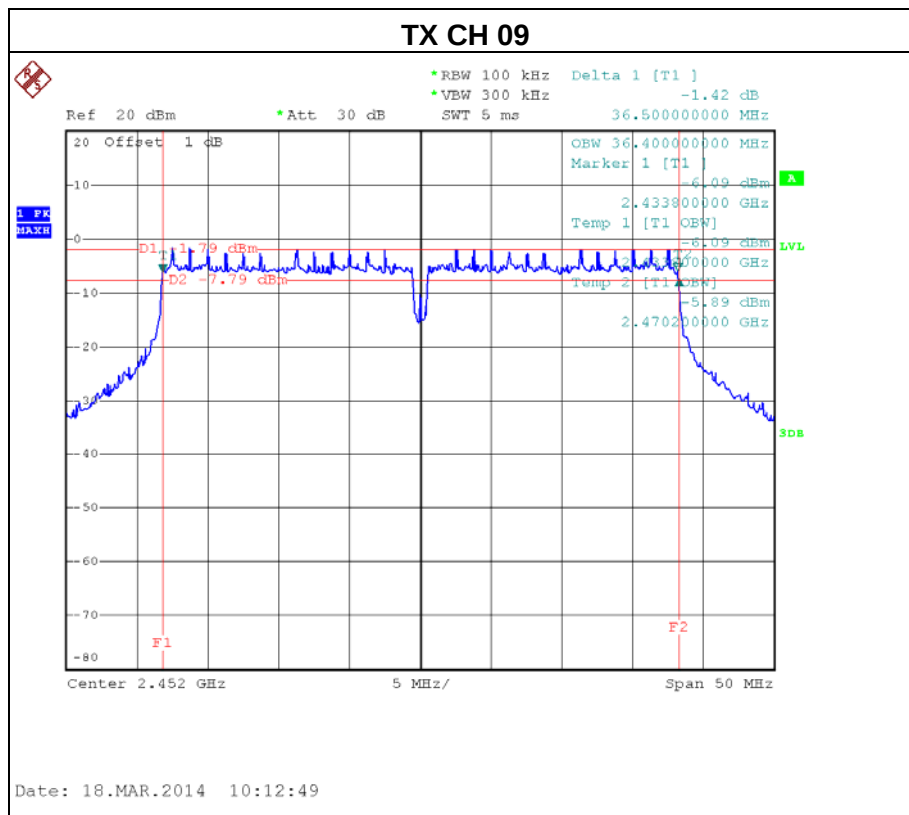
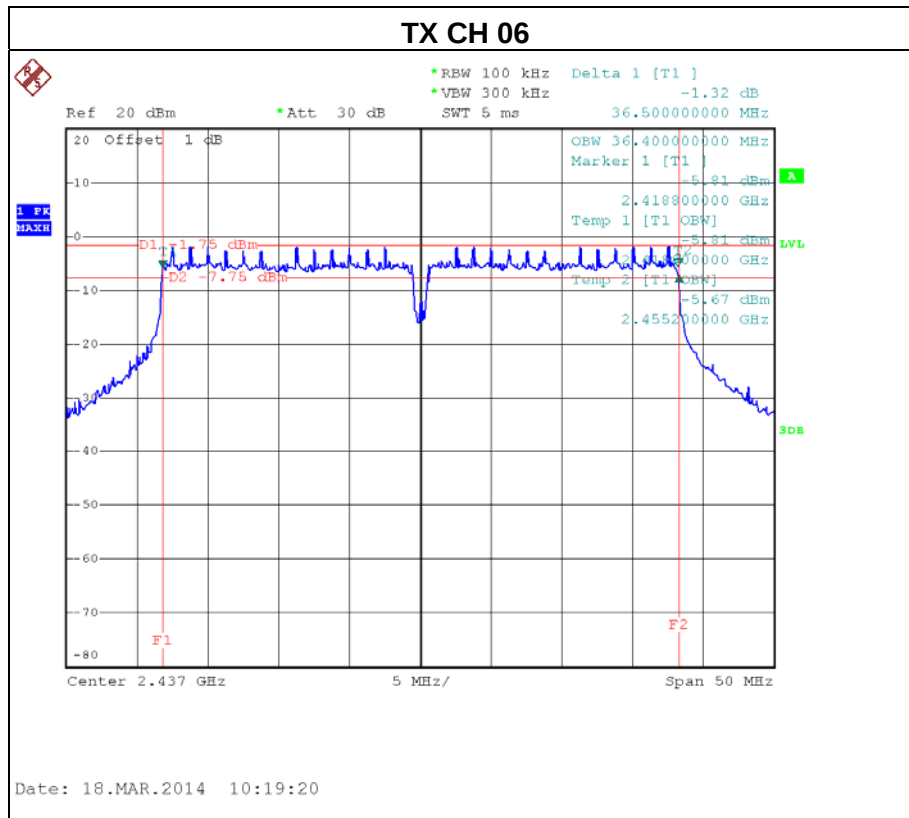






Test Mode : TX N-40MHz Mode_CH03/06/09







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



6.1.6 TEST RESULTS

Test Mode : TX B Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	17.36	30	1
CH06	2437	17.23	30	1
CH11	2462	17.54	30	1

Test Mode : TX G Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	19.84	30	1
CH06	2437	20.54	30	1
CH11	2462	20.56	30	1

Test Mode : TX N-20M Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	19.35	30	1
CH06	2437	20.21	30	1
CH11	2462	20.34	30	1

Test Mode : TX N-40M Mode				
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	19.03	30	1
CH06	2437	19.65	30	1
CH09	2452	19.71	30	1



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

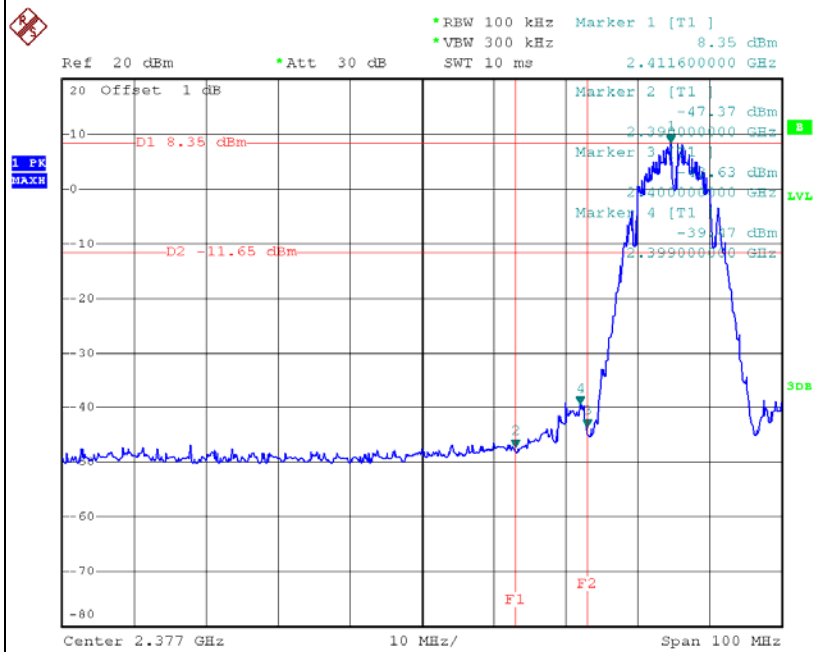


7.1.6 TEST RESULTS

Test Mode :	TX B Mode
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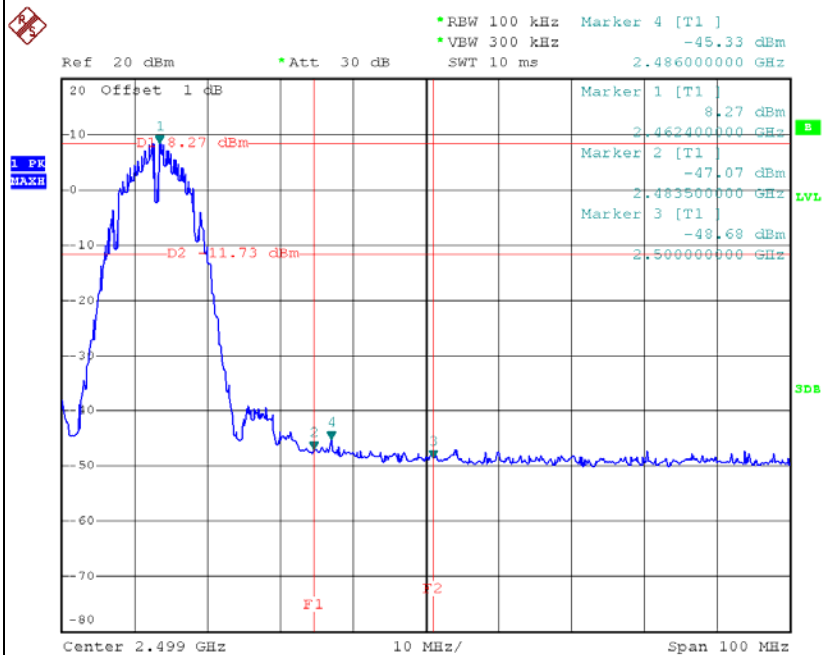


TX B mode CH01

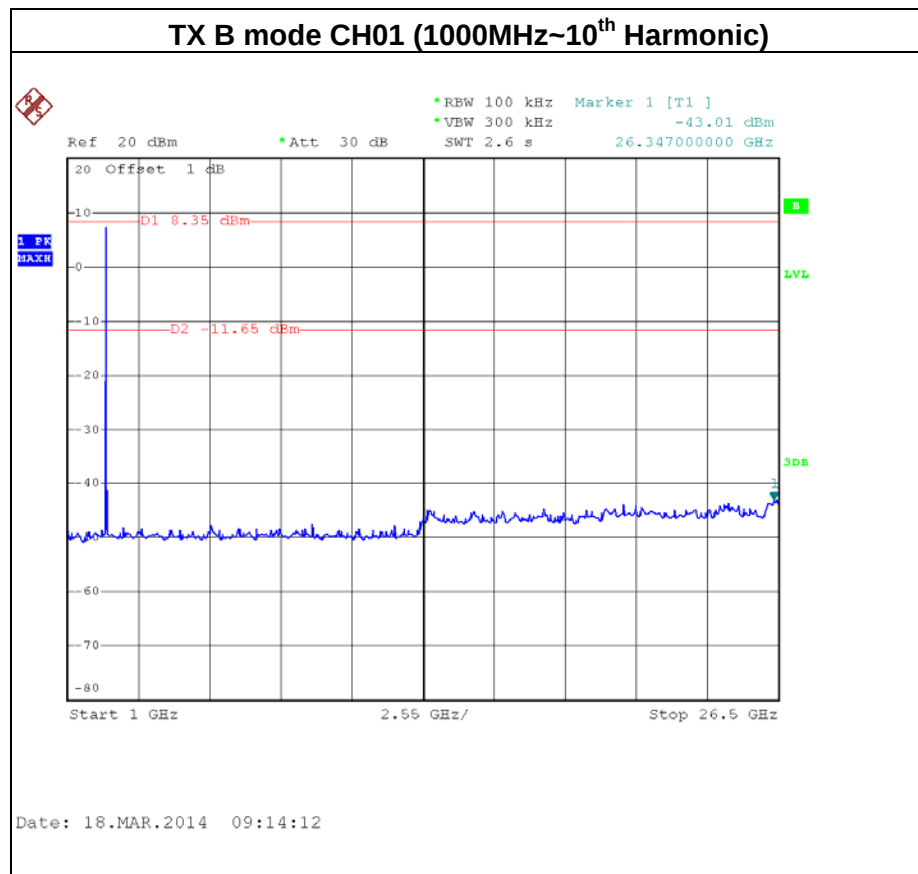
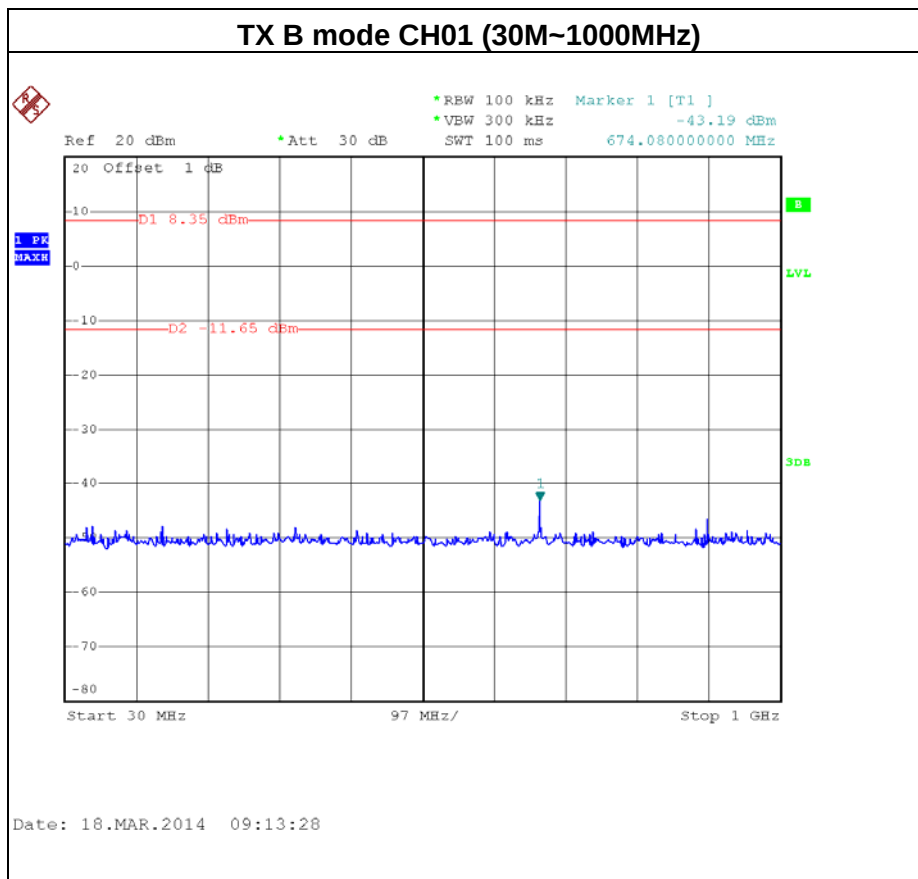


Date: 18.MAR.2014 09:12:56

TX B mode CH11

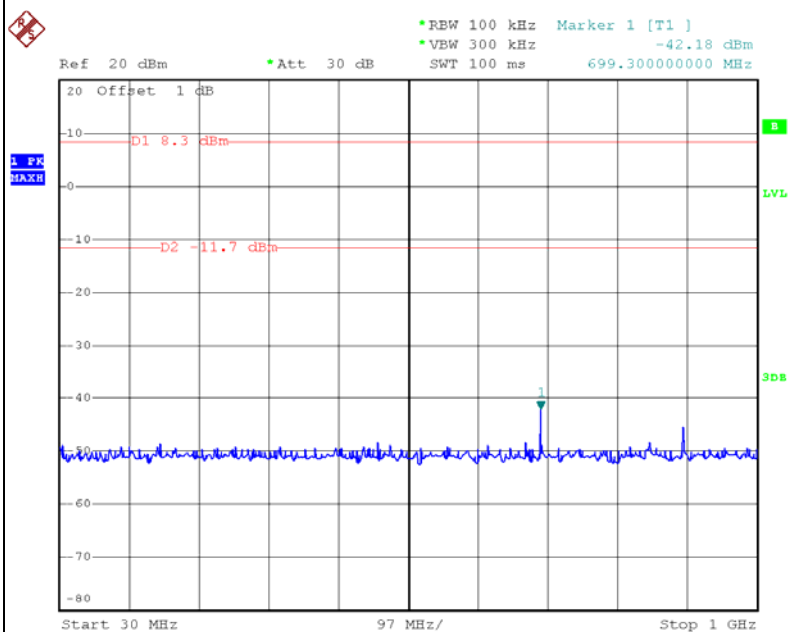


Date: 18.MAR.2014 09:20:18



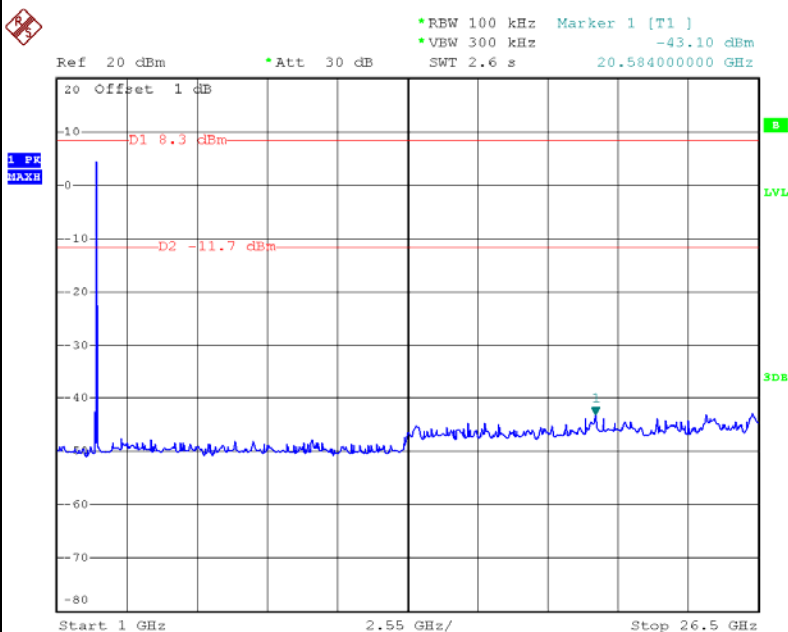


TX B mode CH06 (30M~1000MHz)



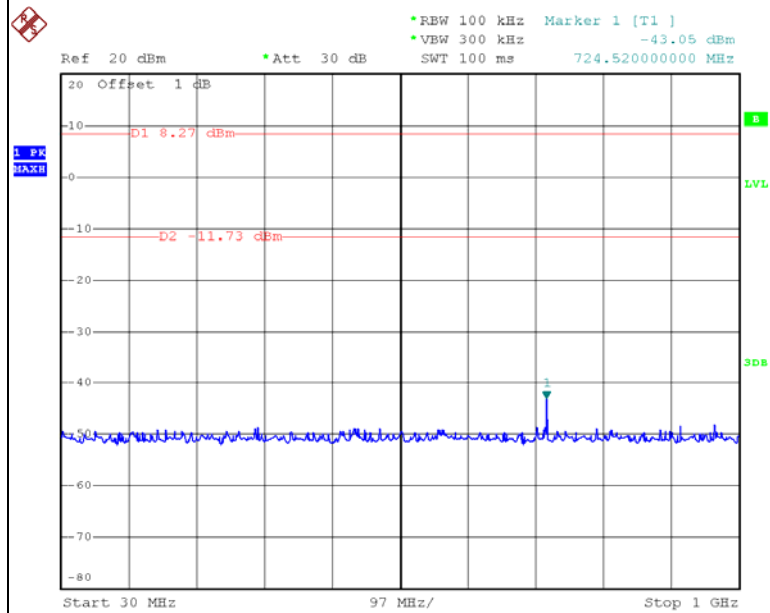
Date: 18.MAR.2014 09:23:58

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



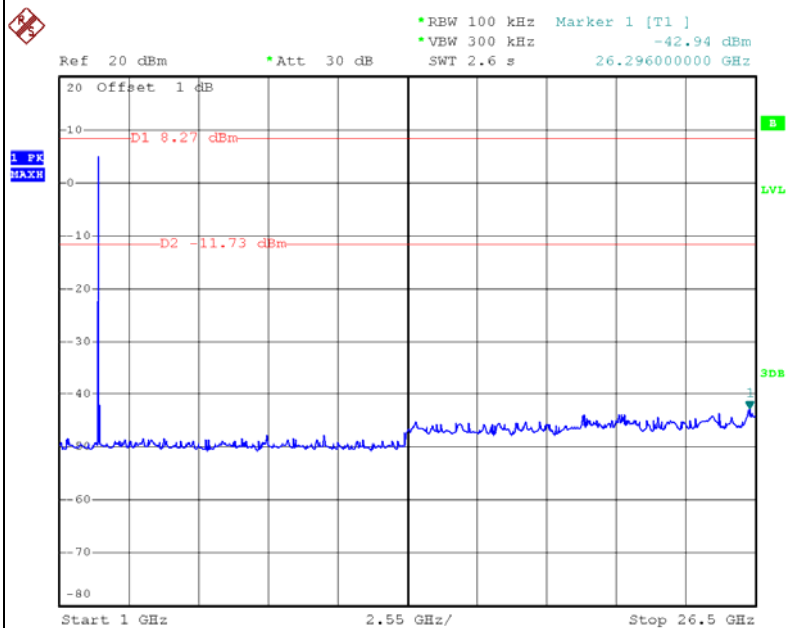
Date: 18.MAR.2014 09:23:25

TX B mode CH11 (30M~1000MHz)



Date: 18.MAR.2014 09:20:50

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



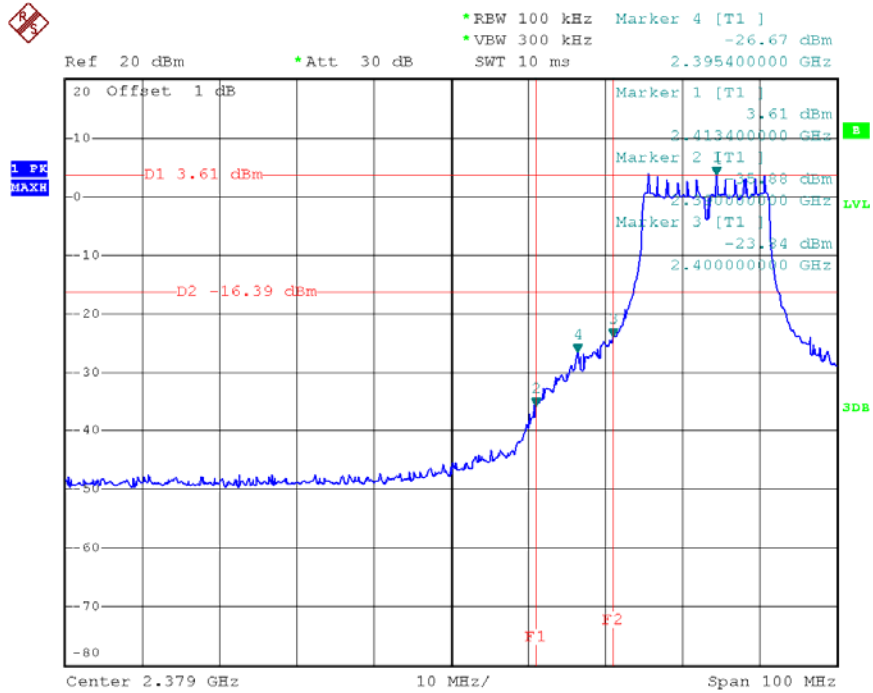
Date: 18.MAR.2014 09:21:35



Test Mode :	TX G Mode
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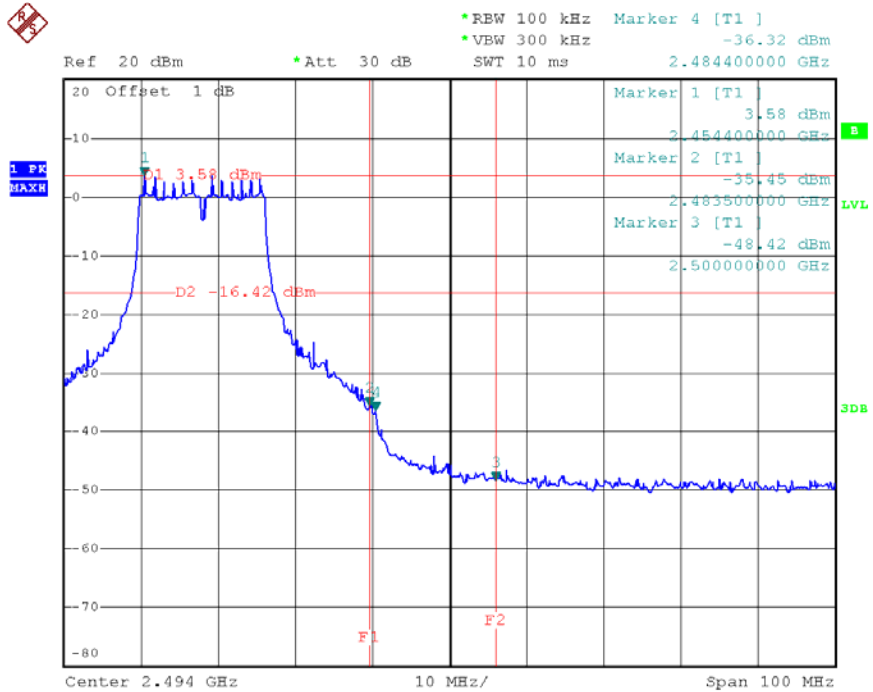


TX G mode CH01

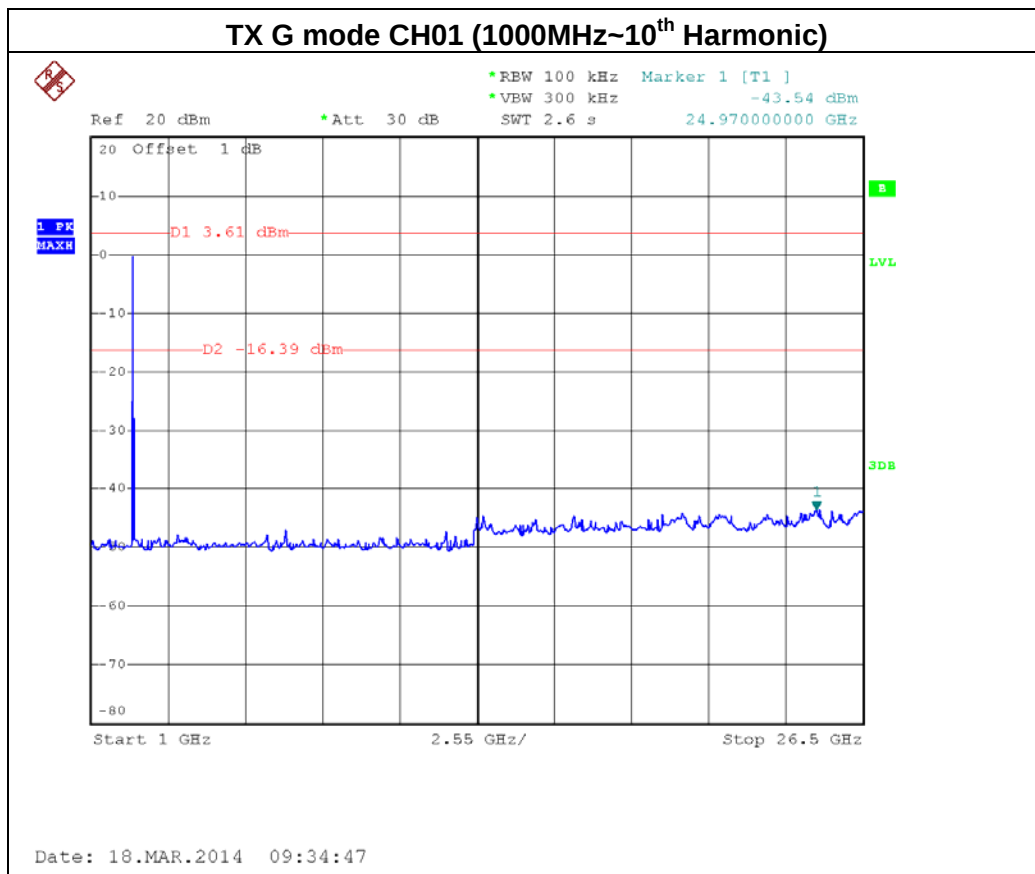
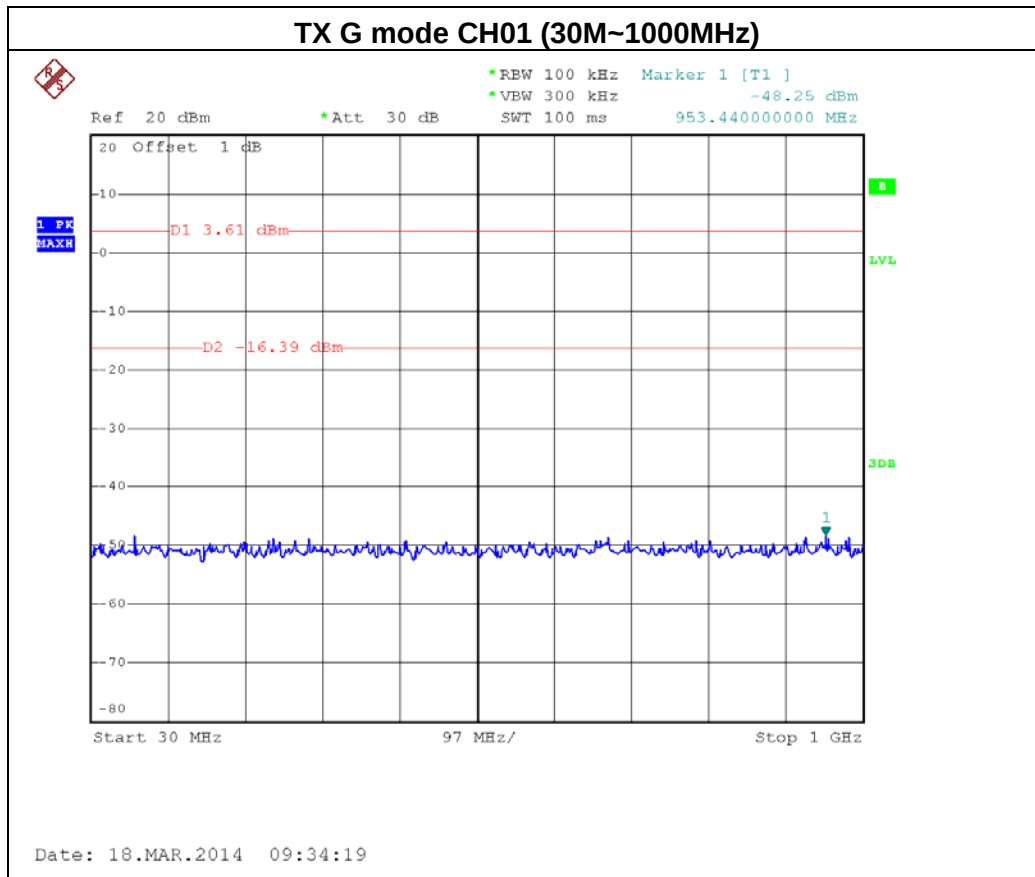


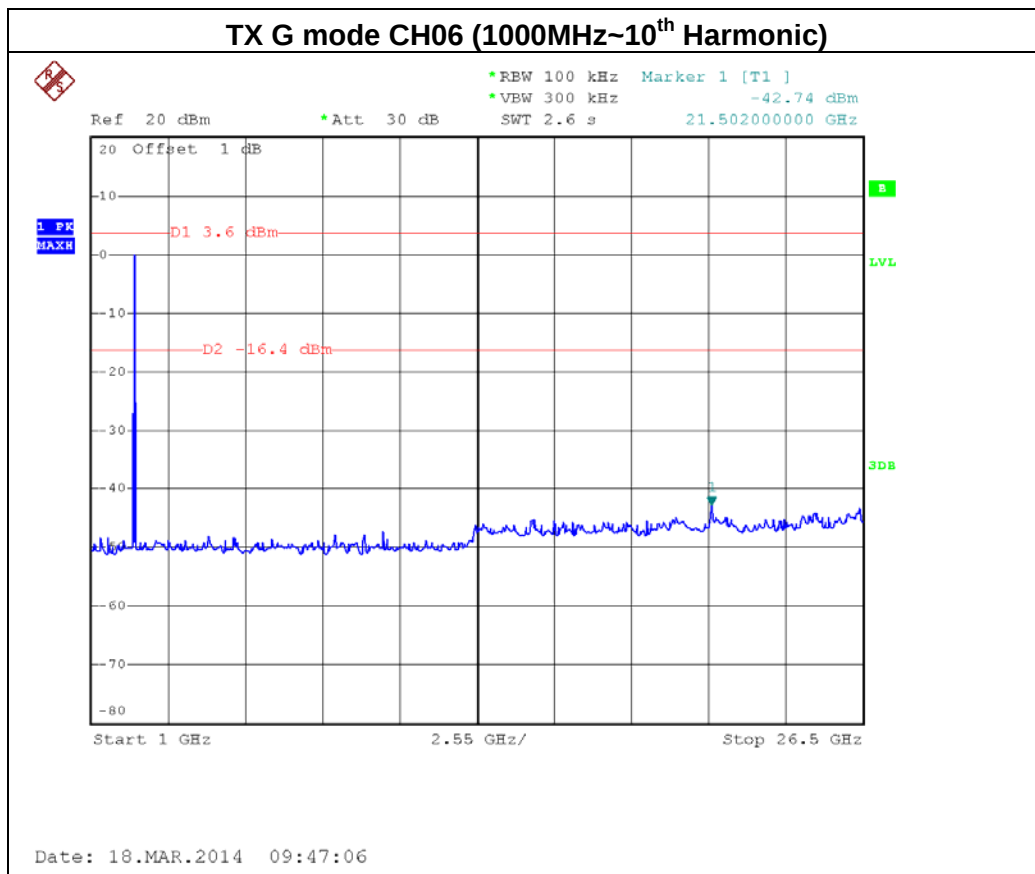
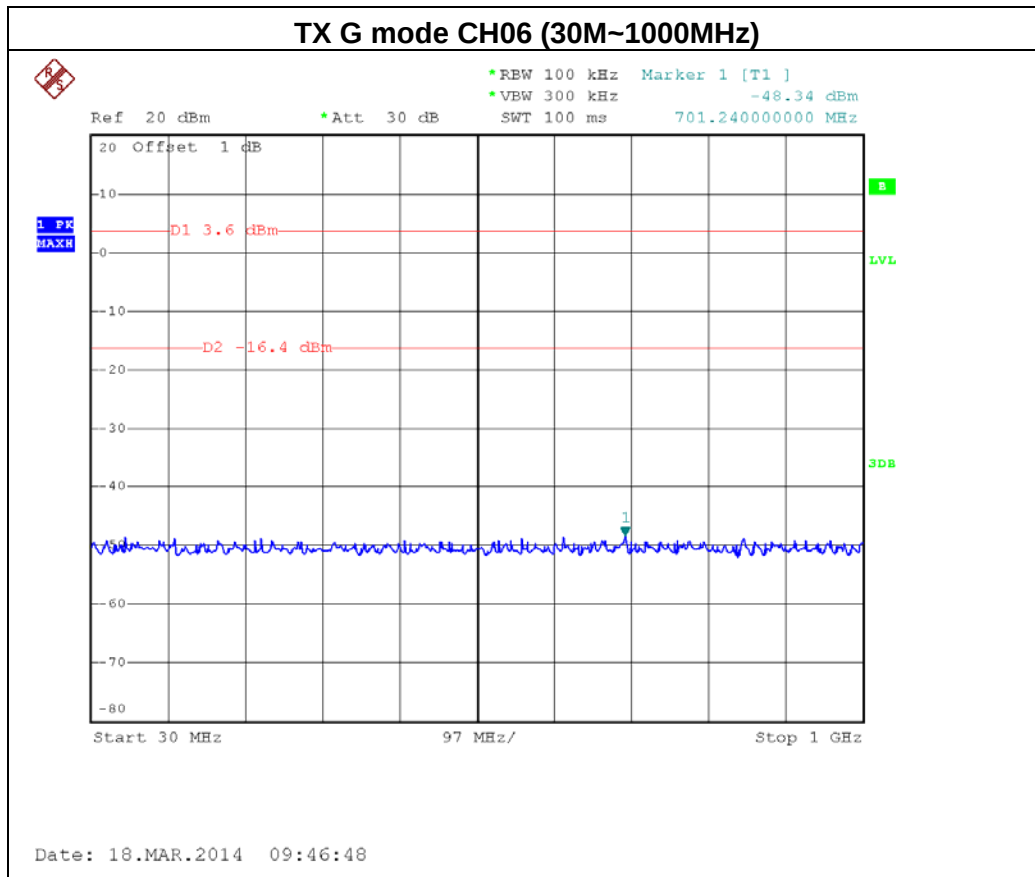
Date: 18.MAR.2014 09:33:51

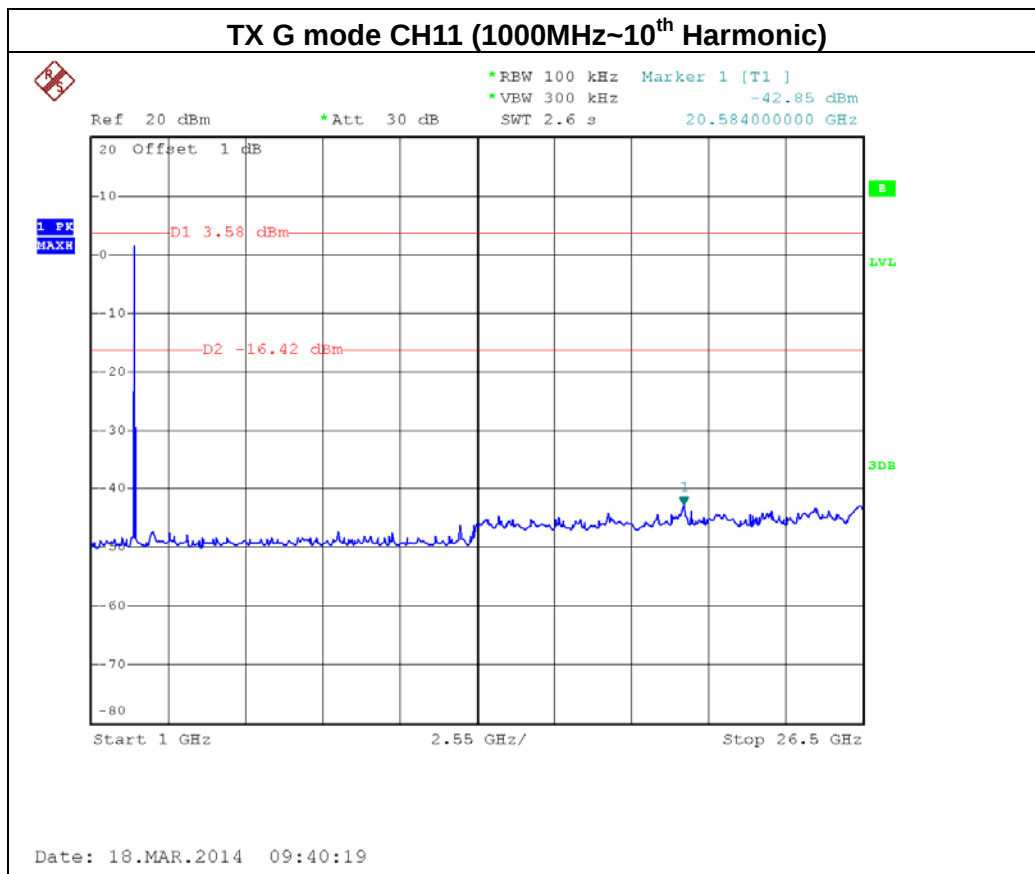
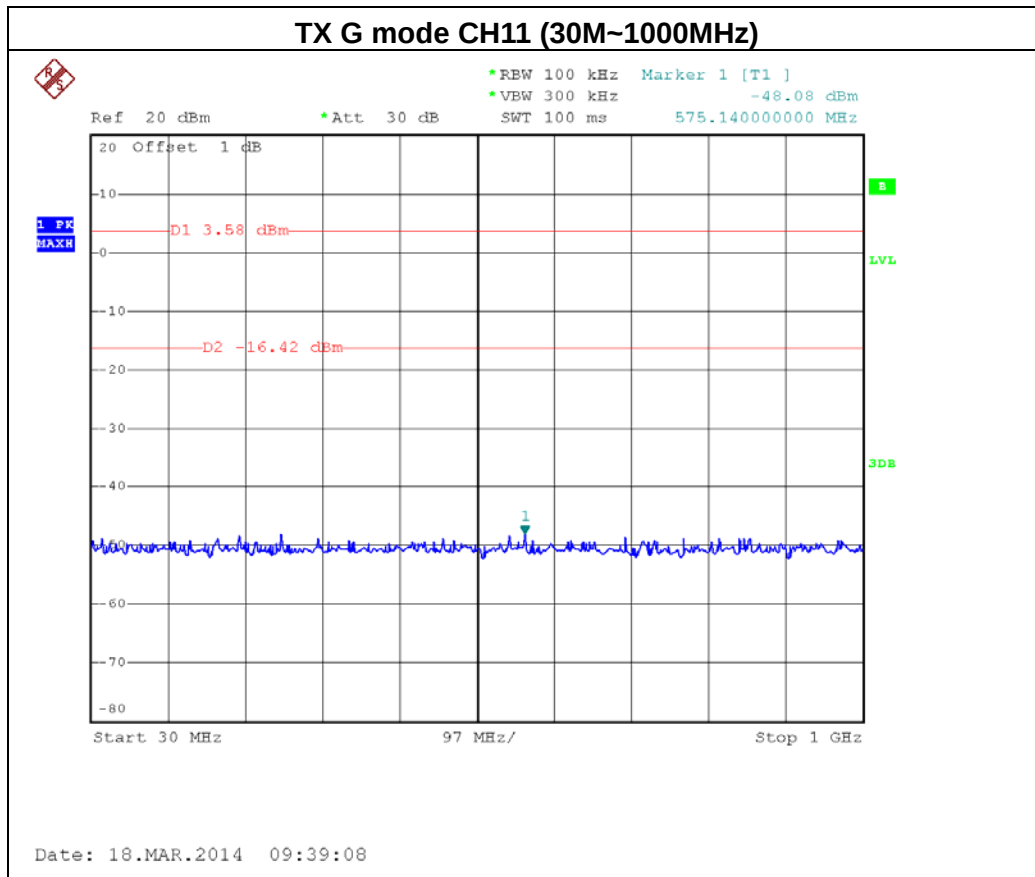
TX G mode CH11



Date: 18.MAR.2014 09:38:14

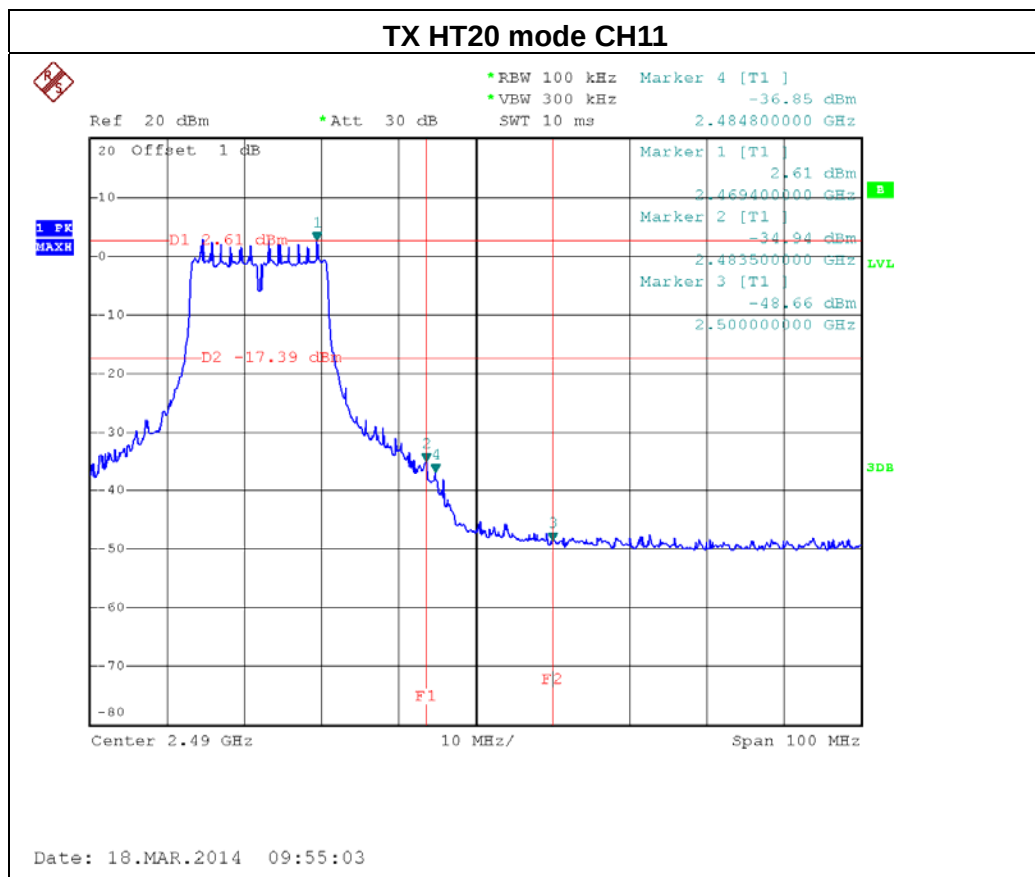
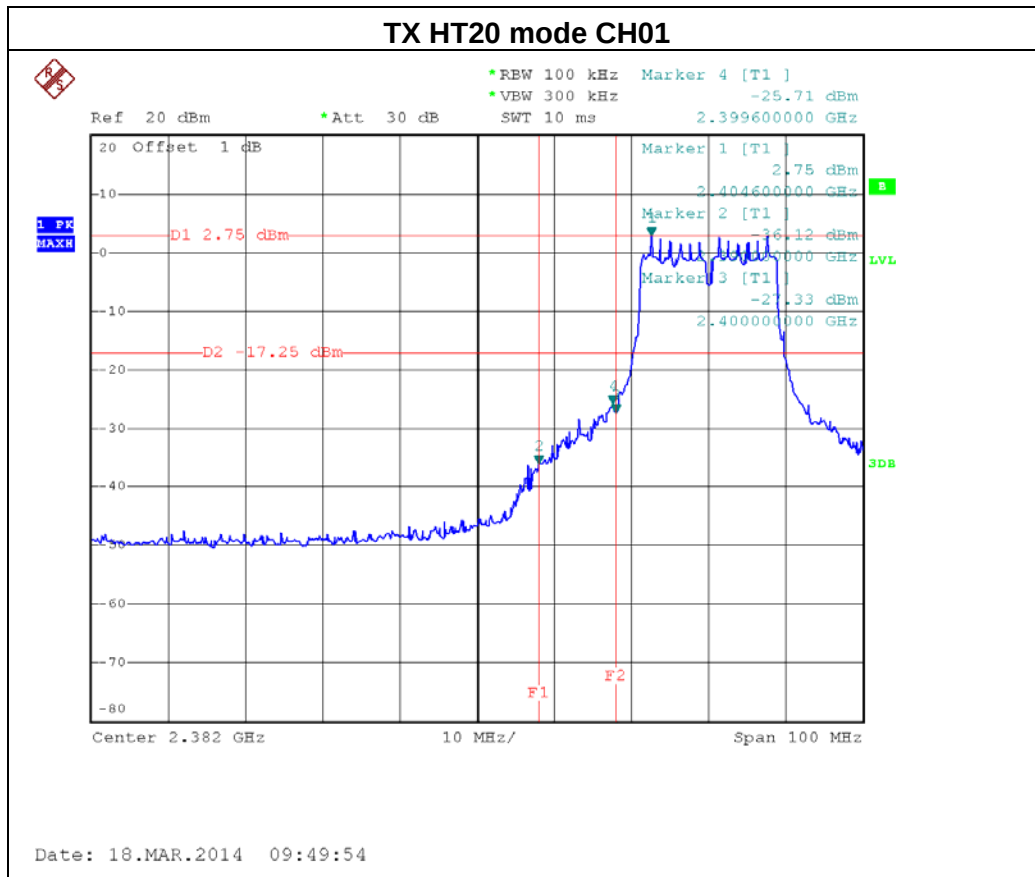


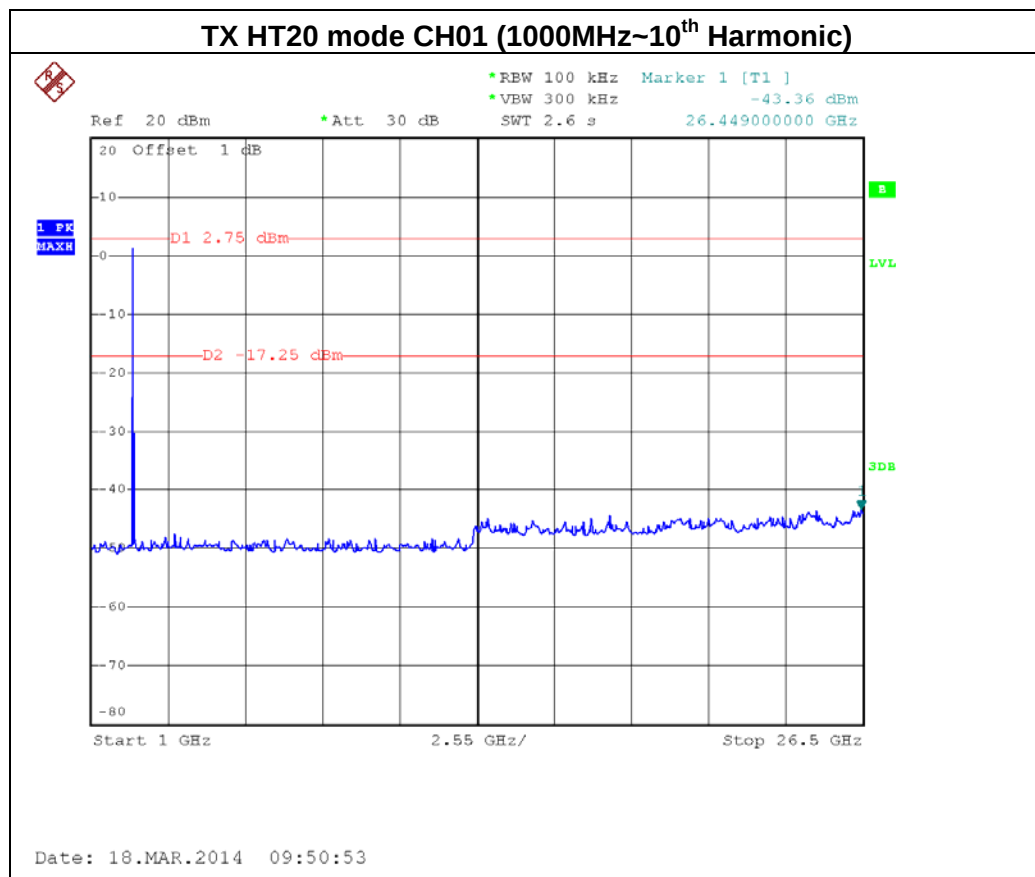
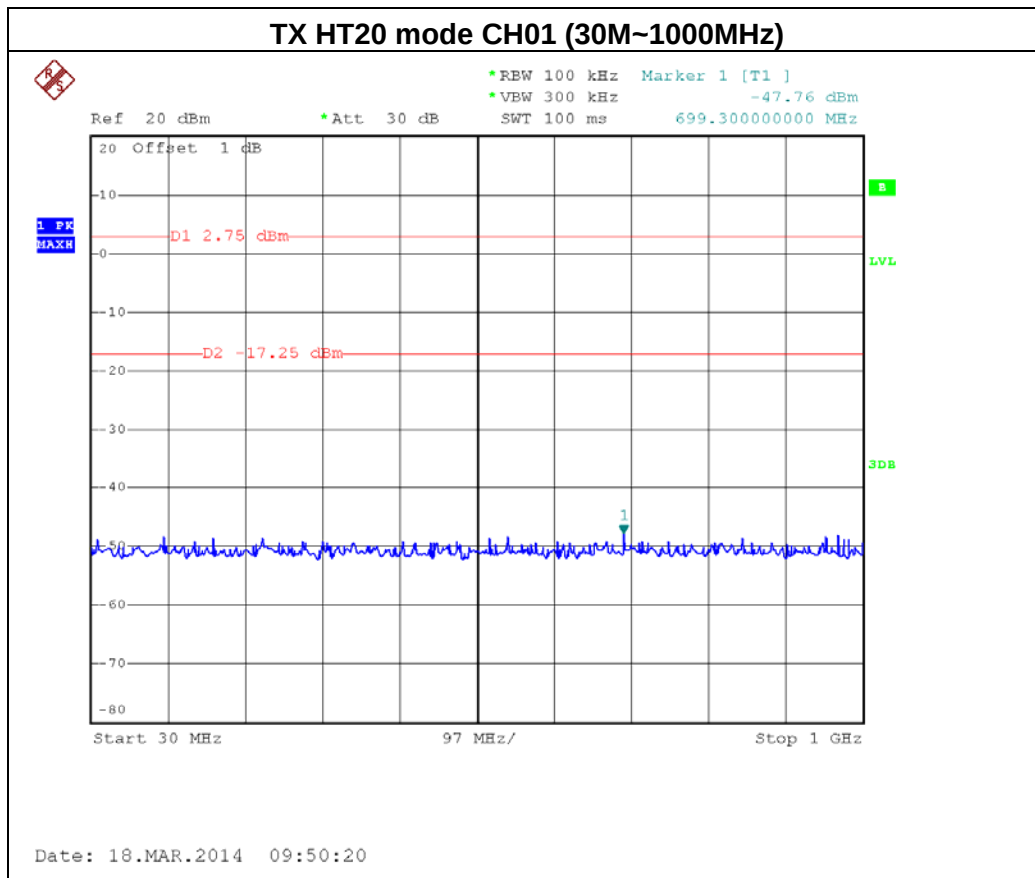






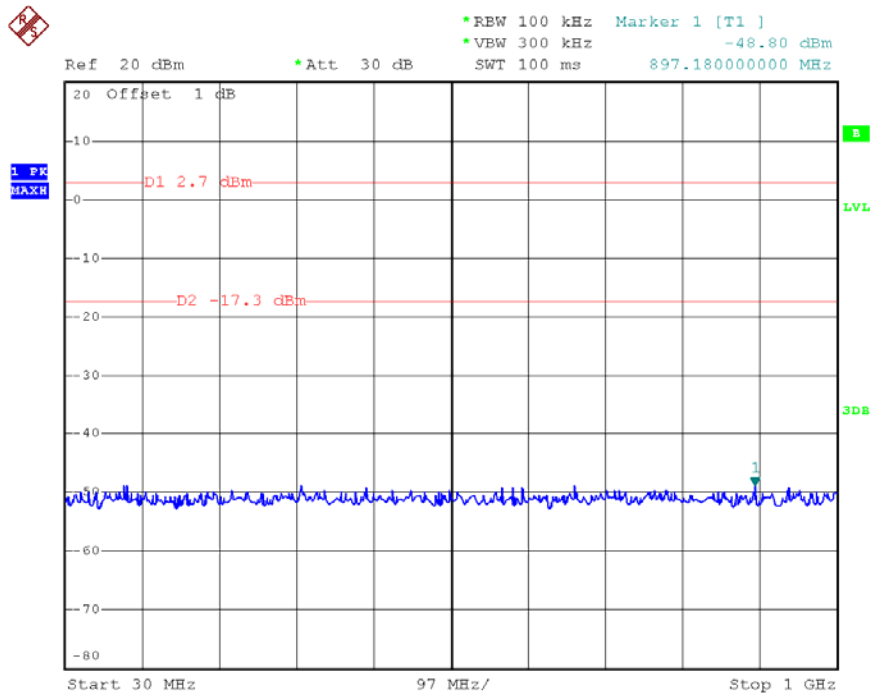
Test Mode :	TX N-20M Mode
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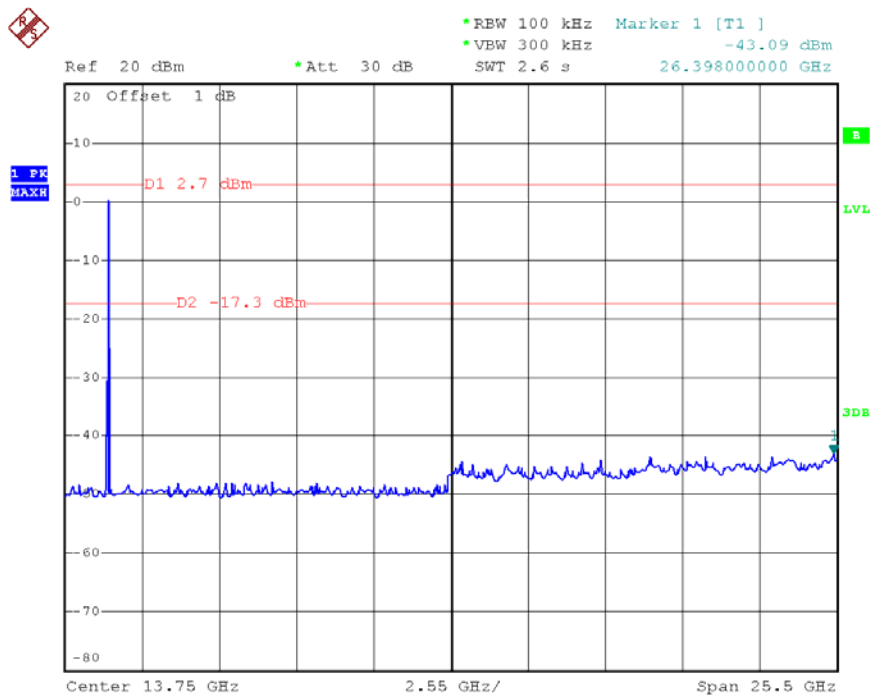


TX HT20 mode CH06 (30M~1000MHz)



Date: 18.MAR.2014 09:58:25

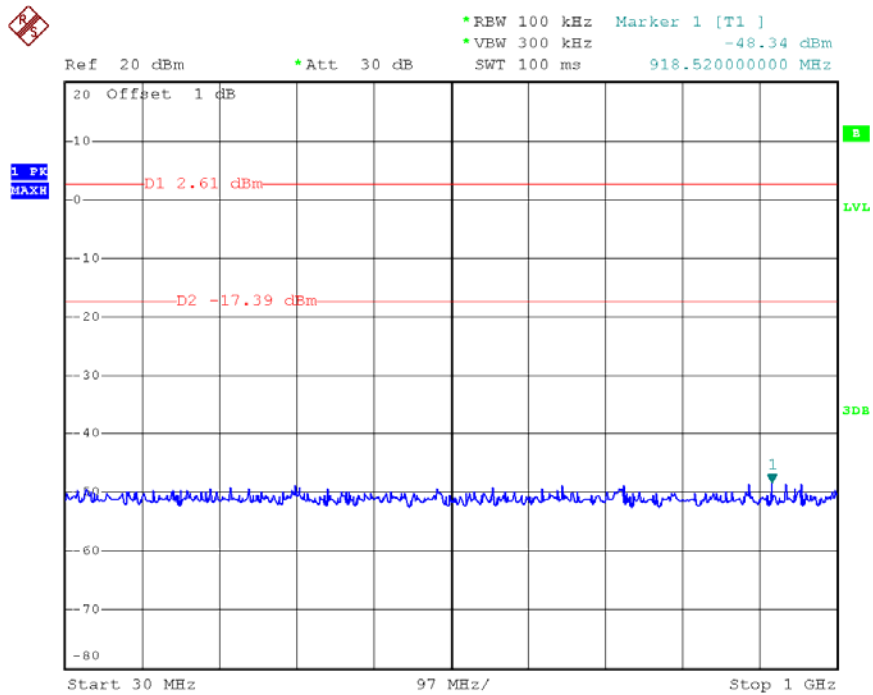
TX HT20 mode CH06 (1000MHz~10th Harmonic)



Date: 18.MAR.2014 09:58:07

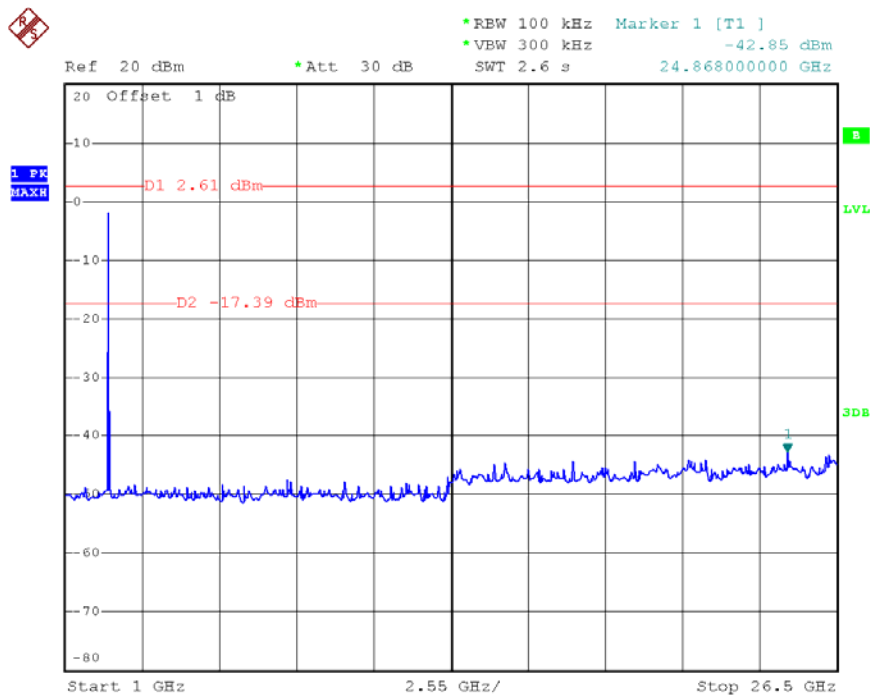


TX HT20 mode CH11 (30M~1000MHz)



Date: 18.MAR.2014 09:55:22

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



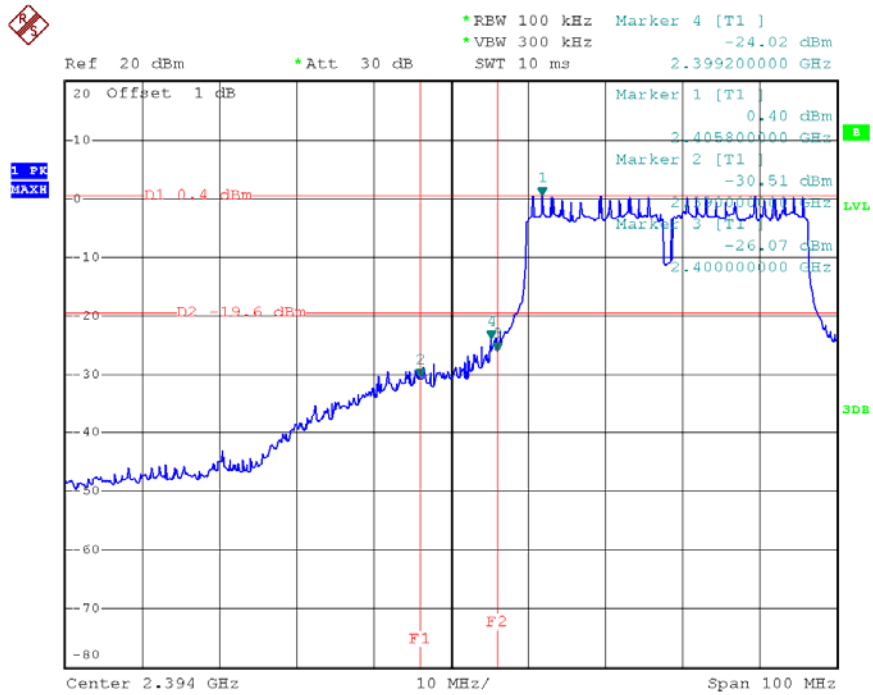
Date: 18.MAR.2014 09:55:37



Test Mode :	TX N-40M Mode
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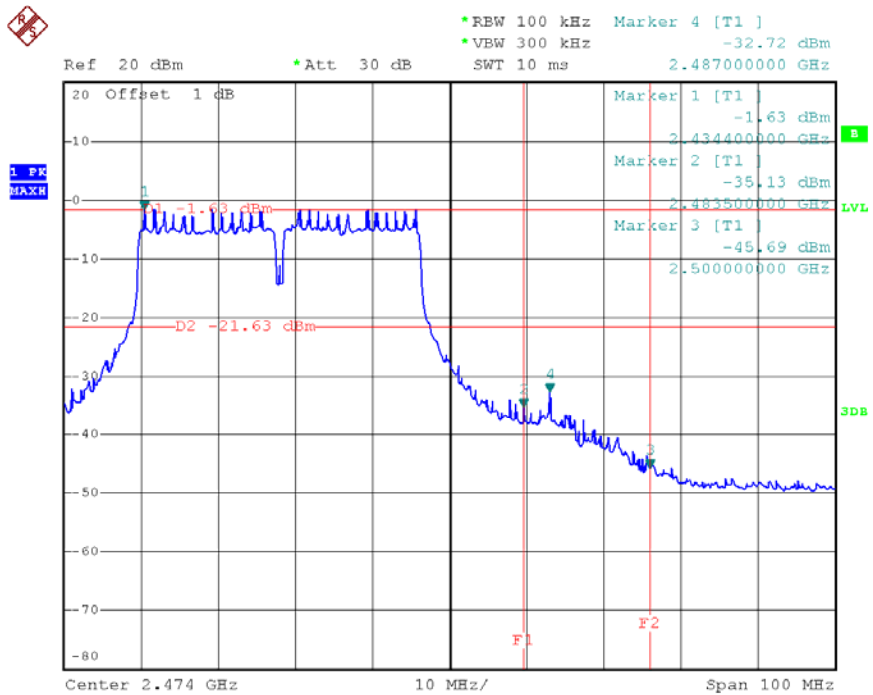


TX HT40 mode CH03

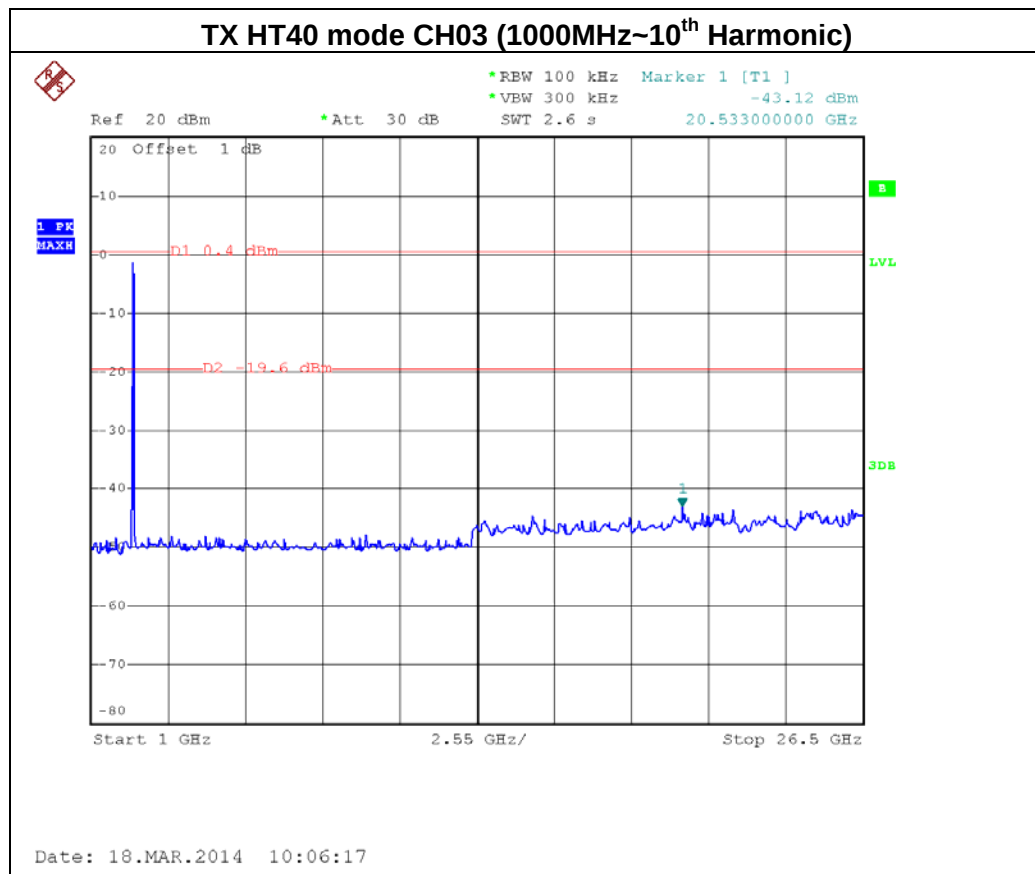
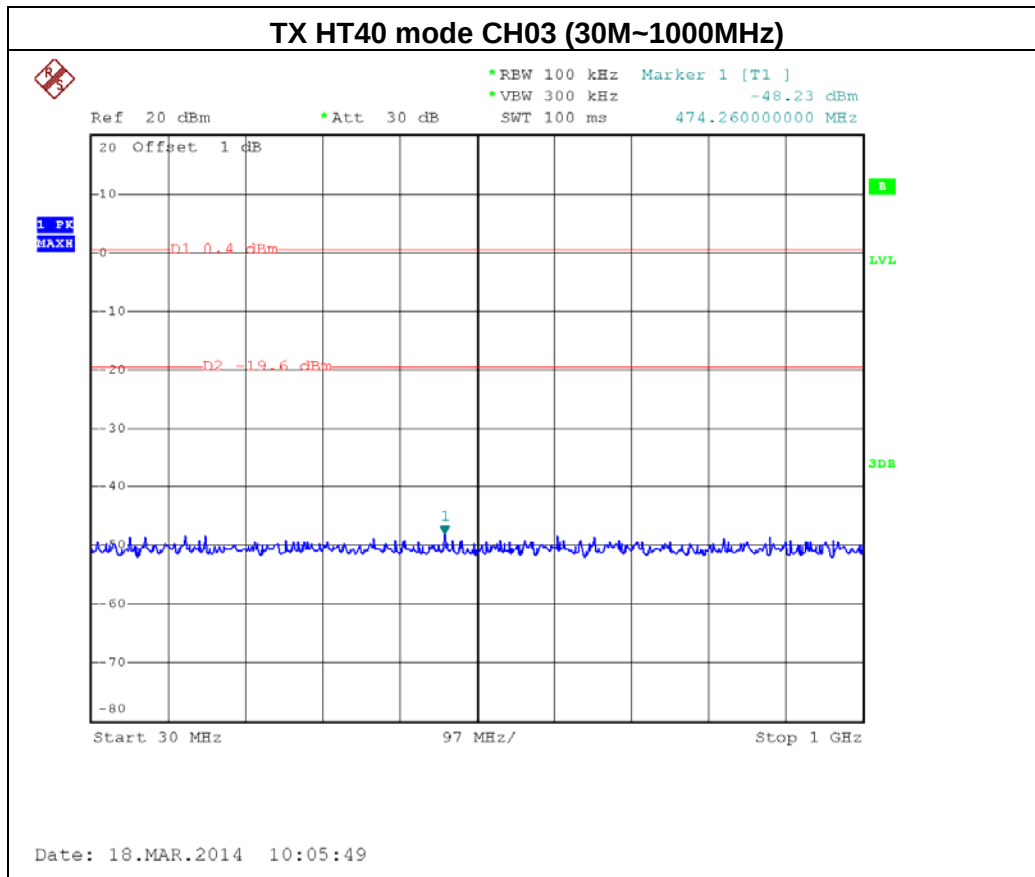


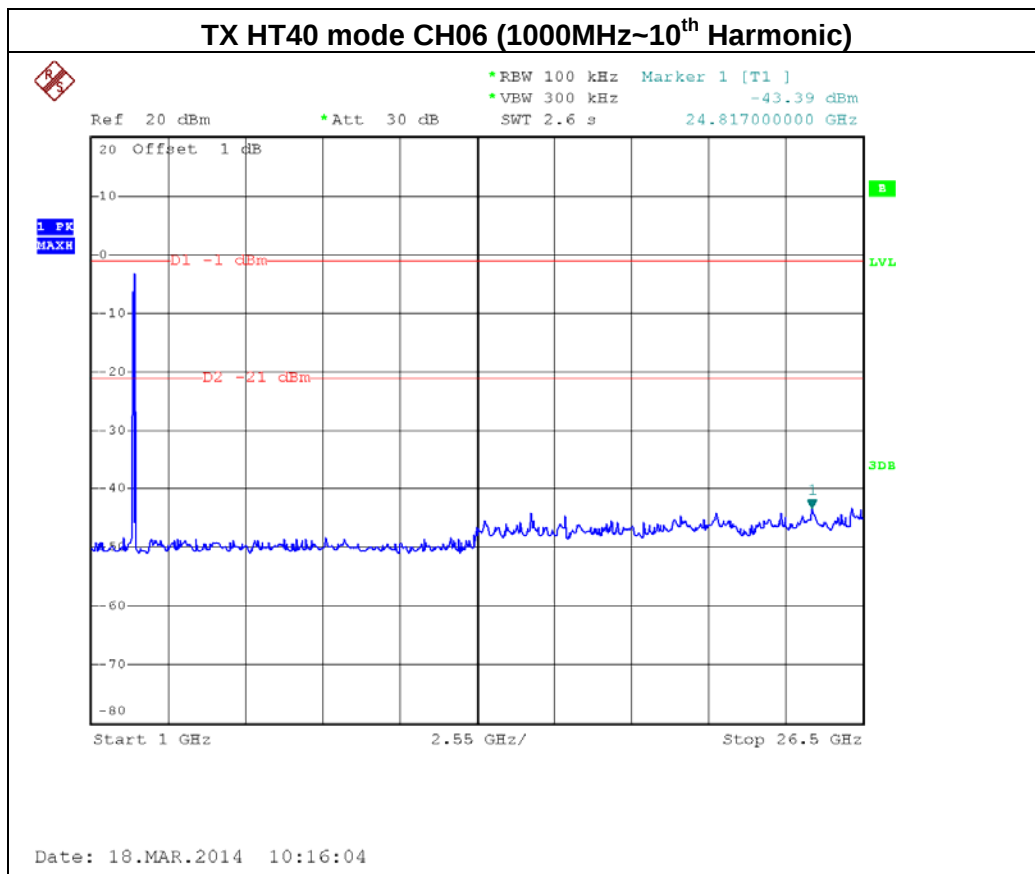
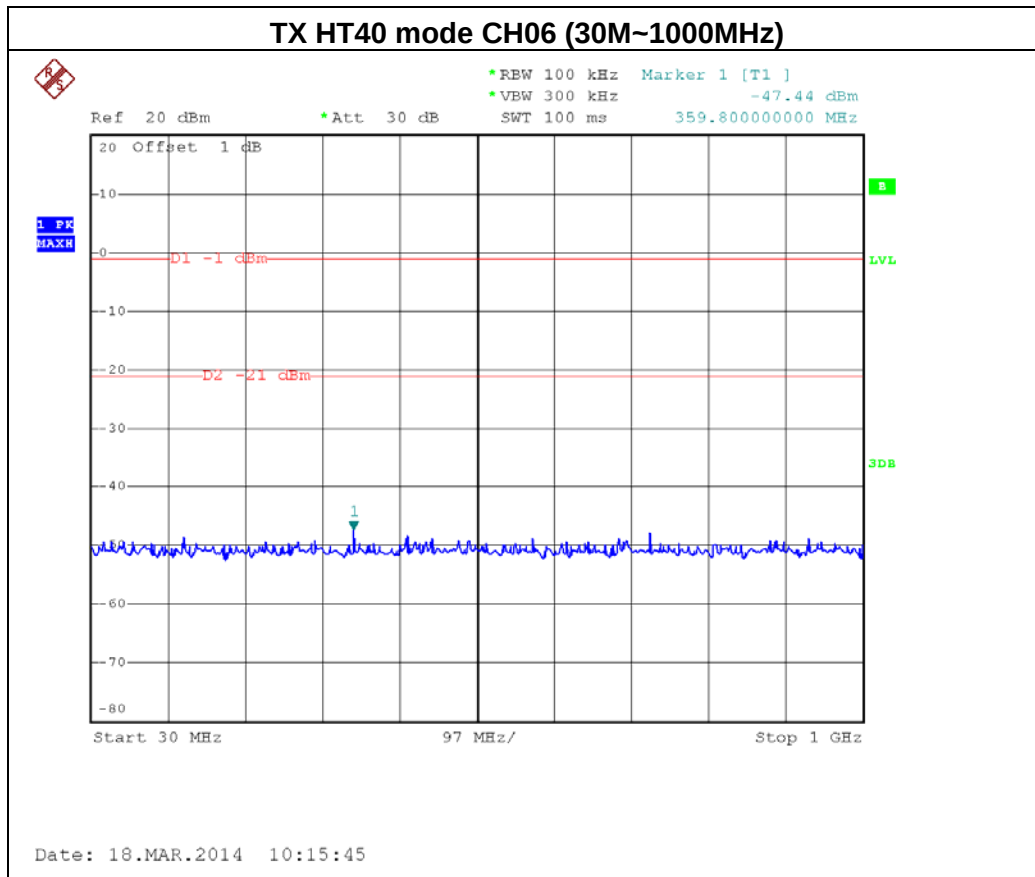
Date: 18.MAR.2014 10:05:26

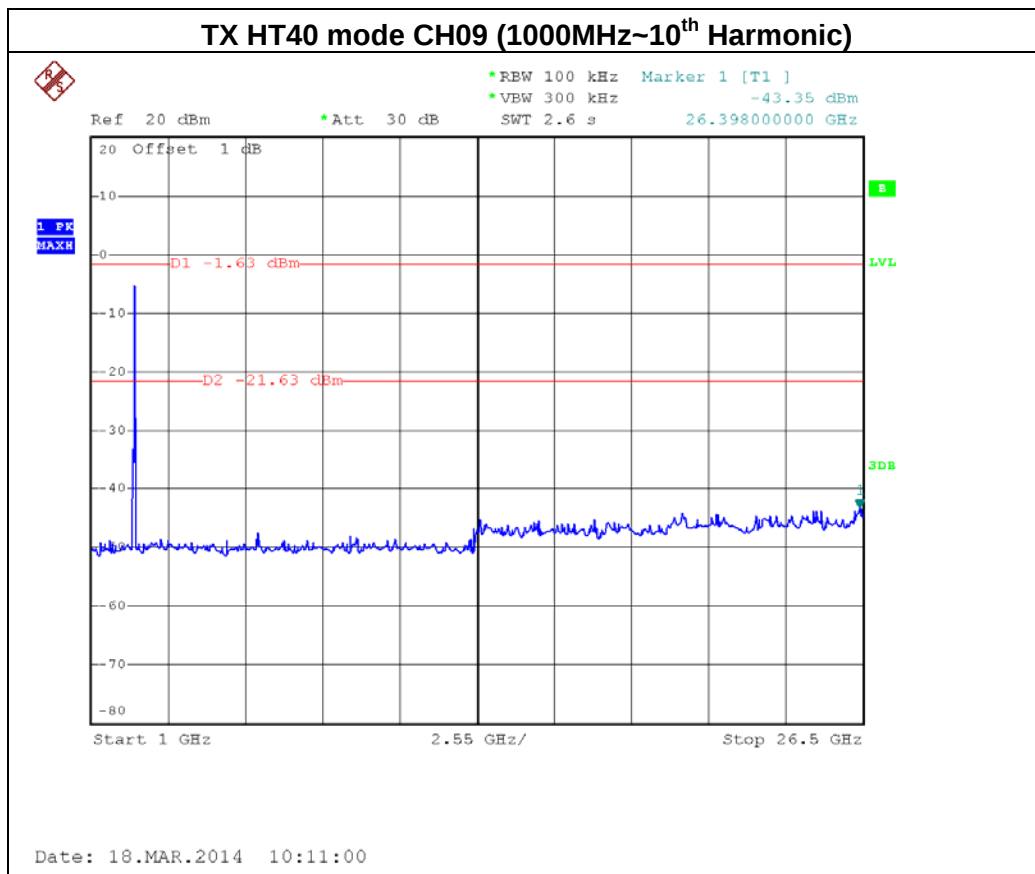
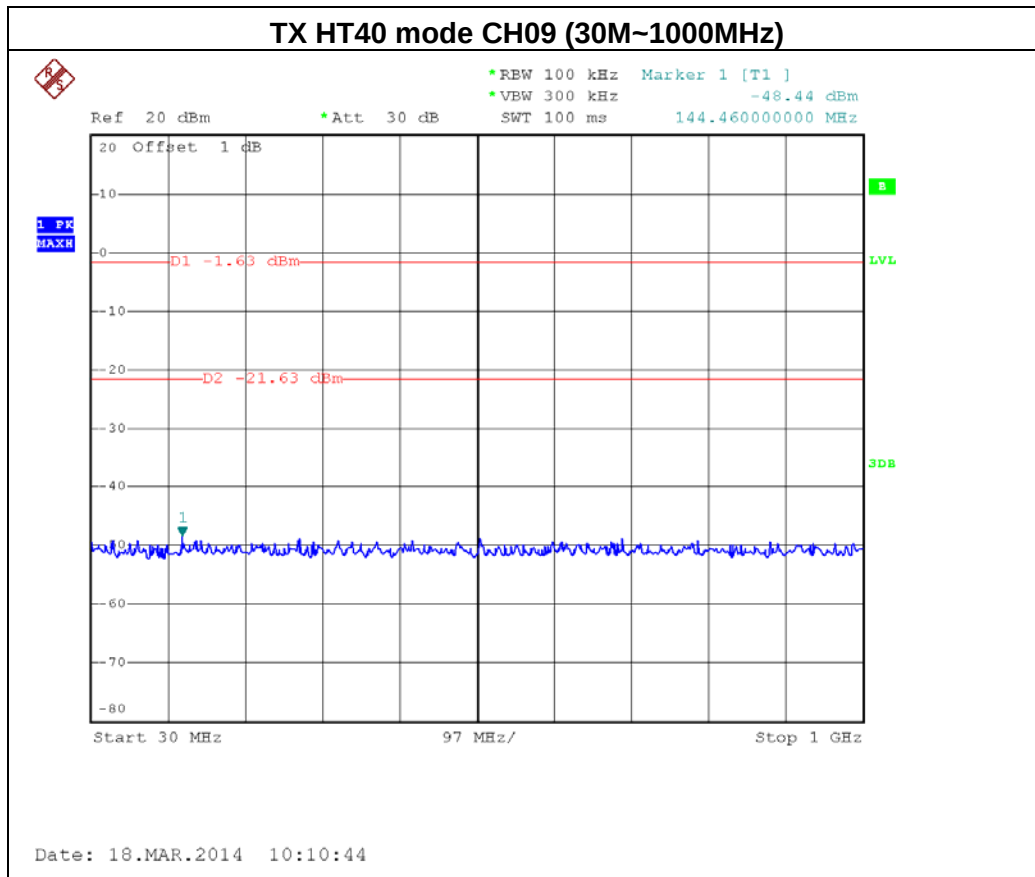
TX HT40 mode CH09



Date: 18.MAR.2014 10:10:11









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

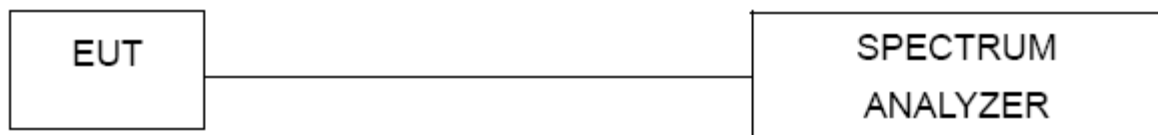
8.1.1 TEST PROCEDURE

- 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.

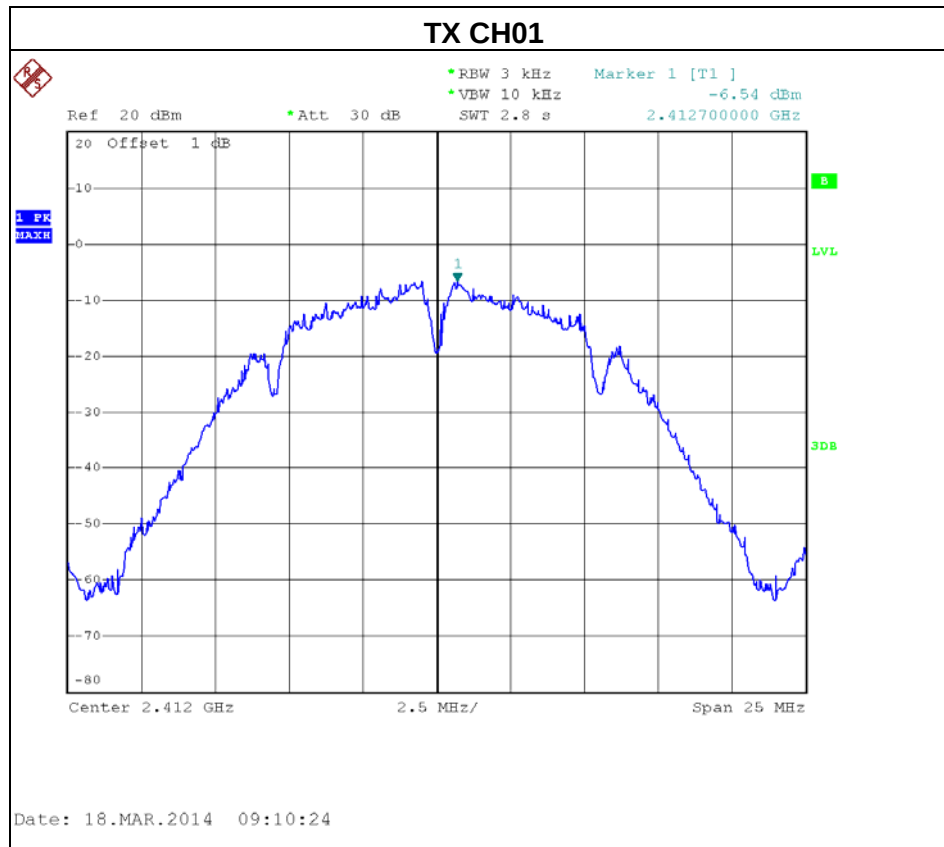
8.1.5 EUT TEST CONDITIONS

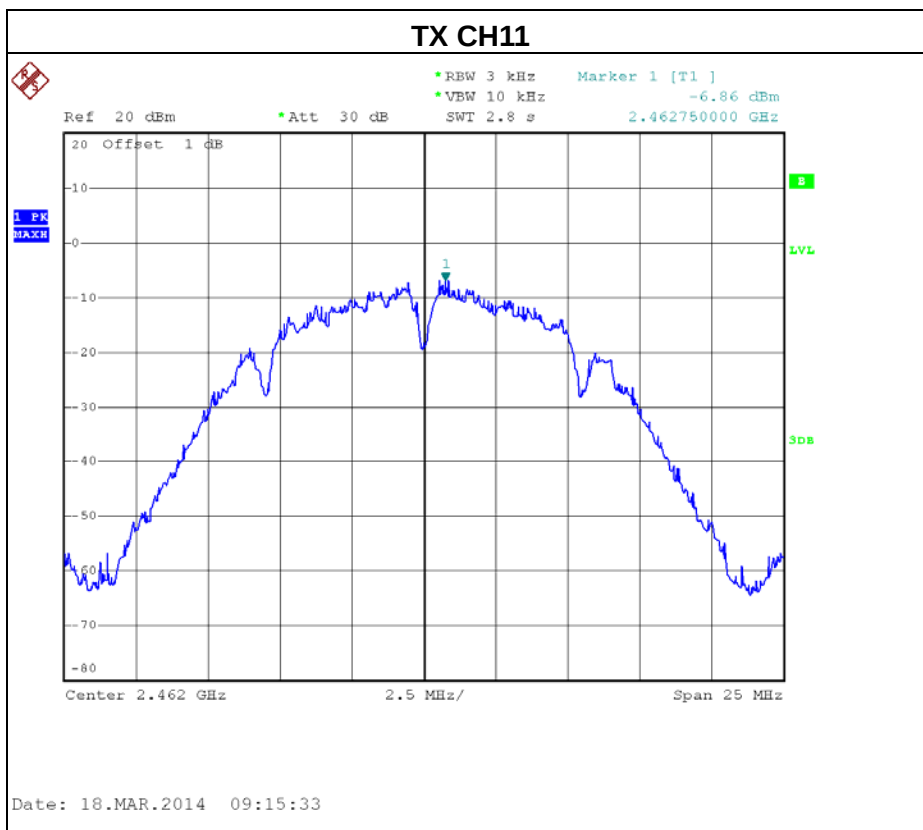
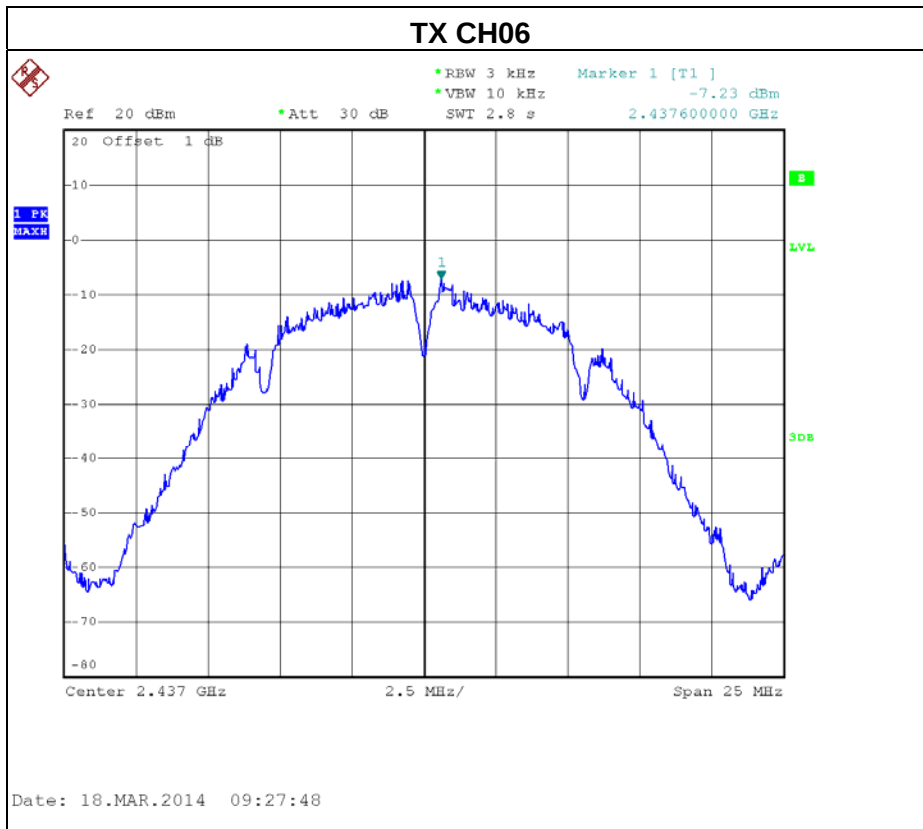
Temperature: 25°C
Relative Humidity: 55%
Test Voltage: DC 3.7V



8.1.6 TEST RESULTS

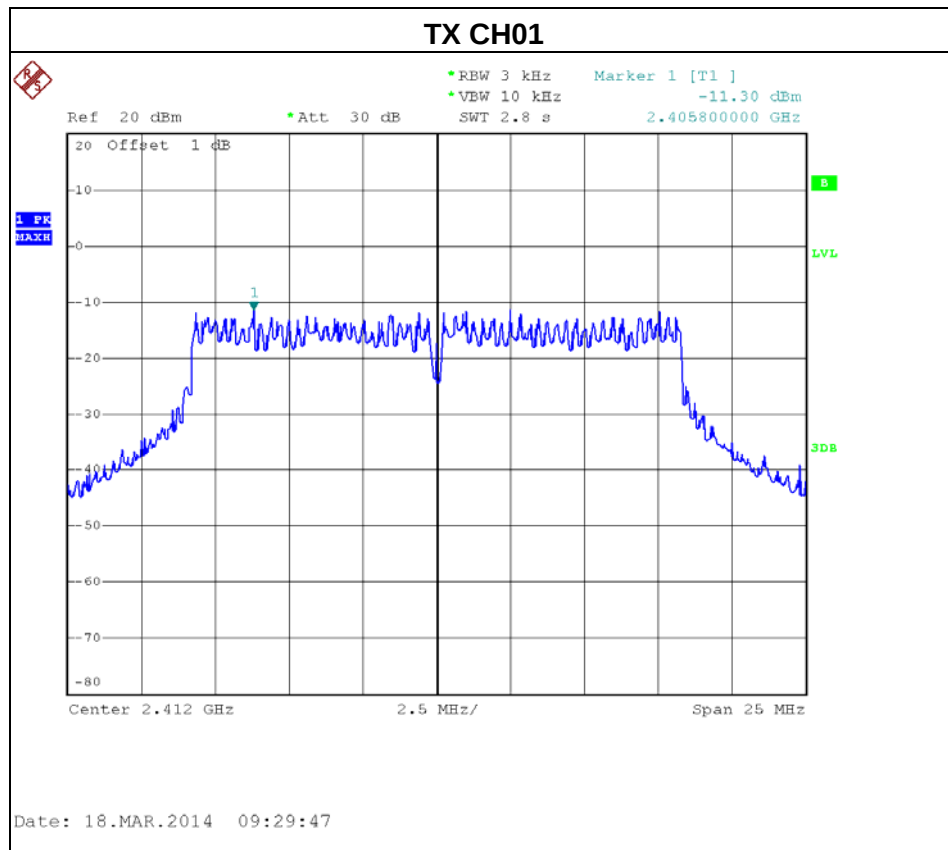
Test Mode :TX B Mode_CH01/06/11

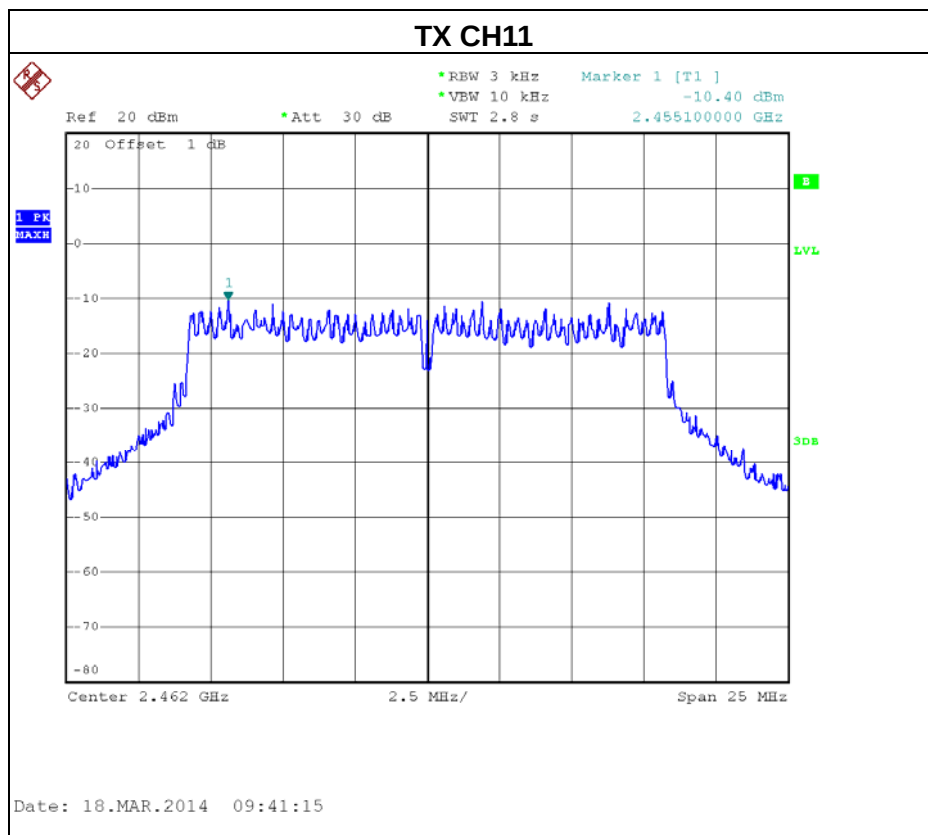
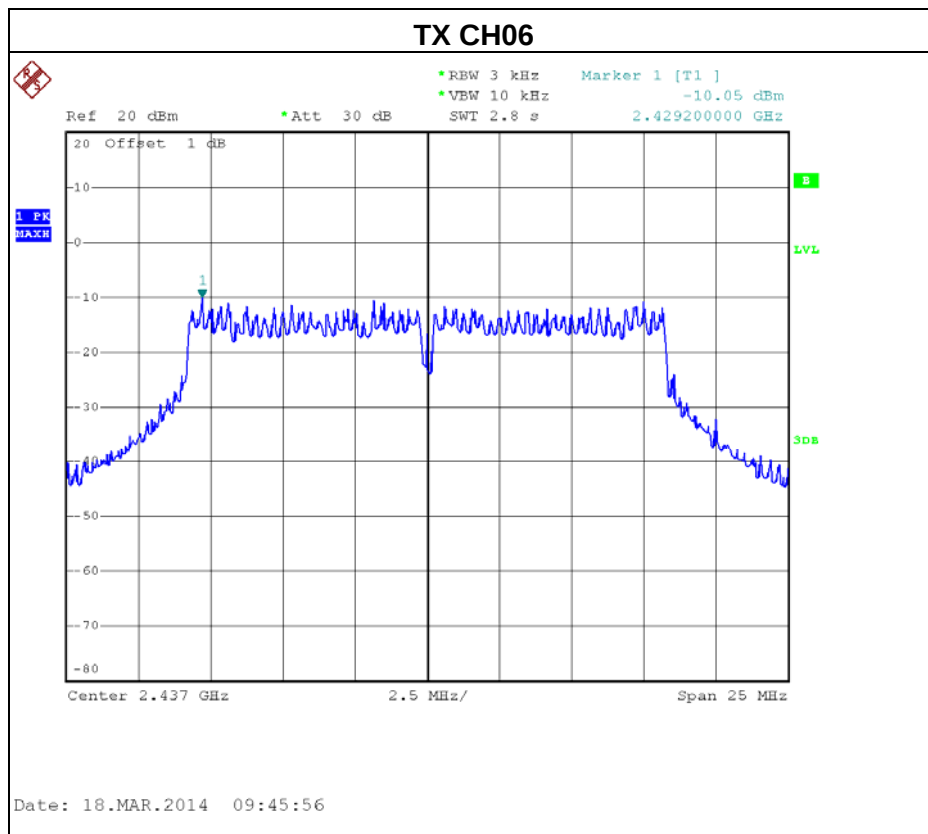






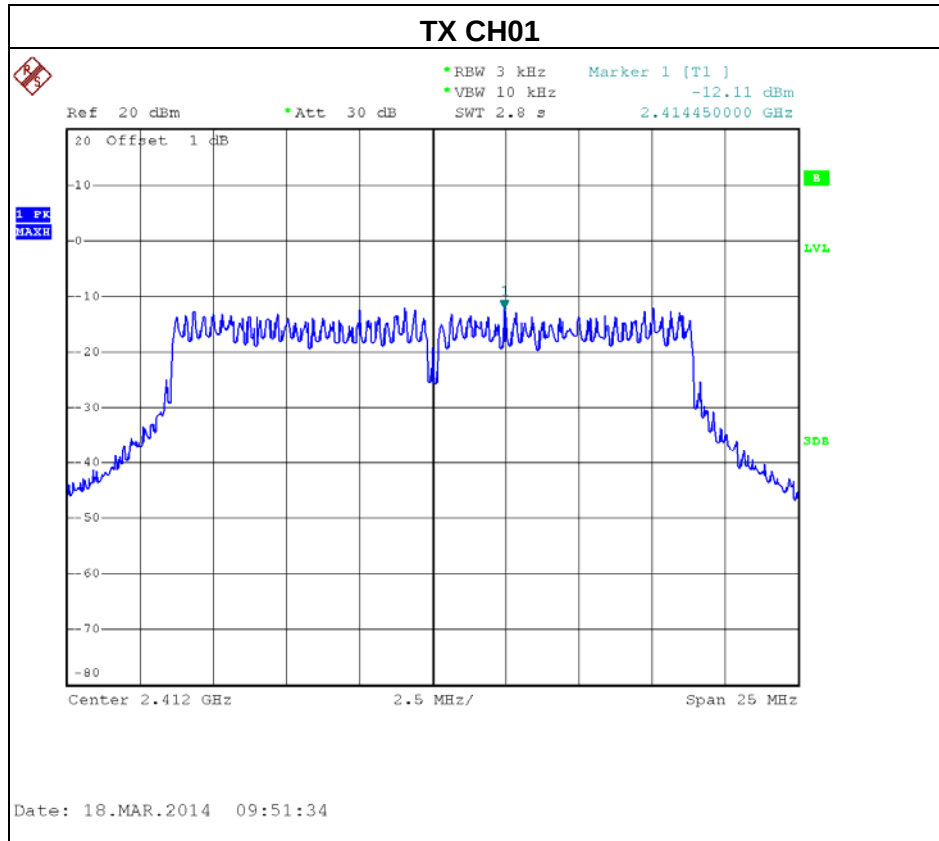
Test Mode :TX G Mode_CH01/06/11

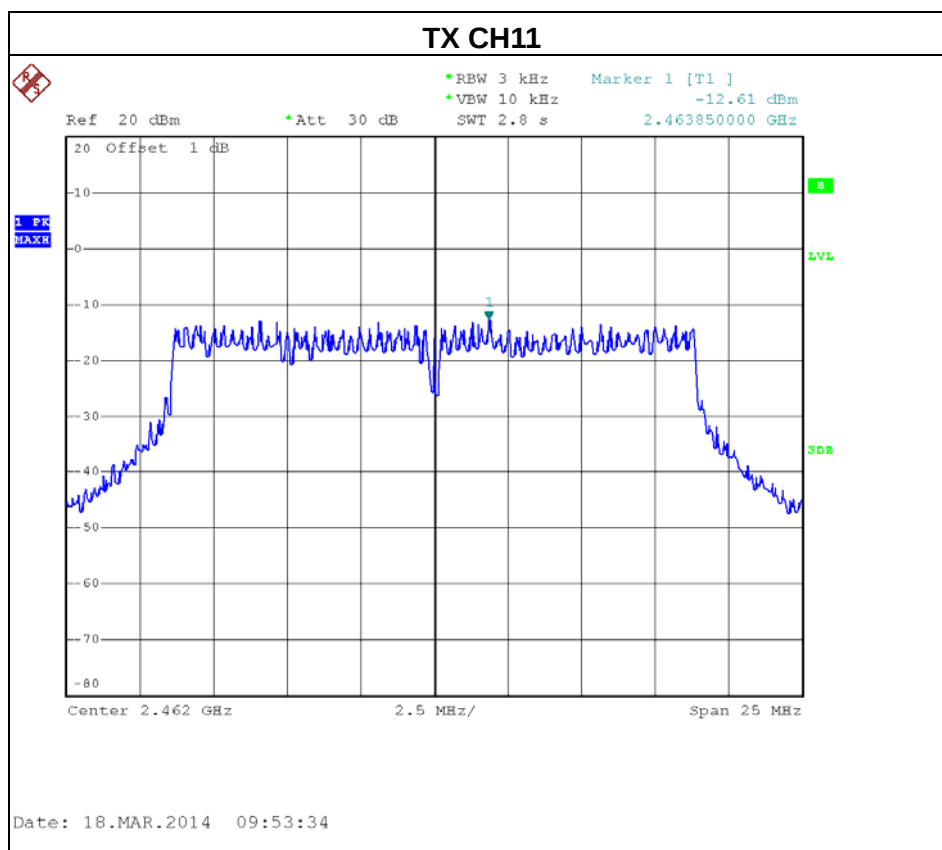
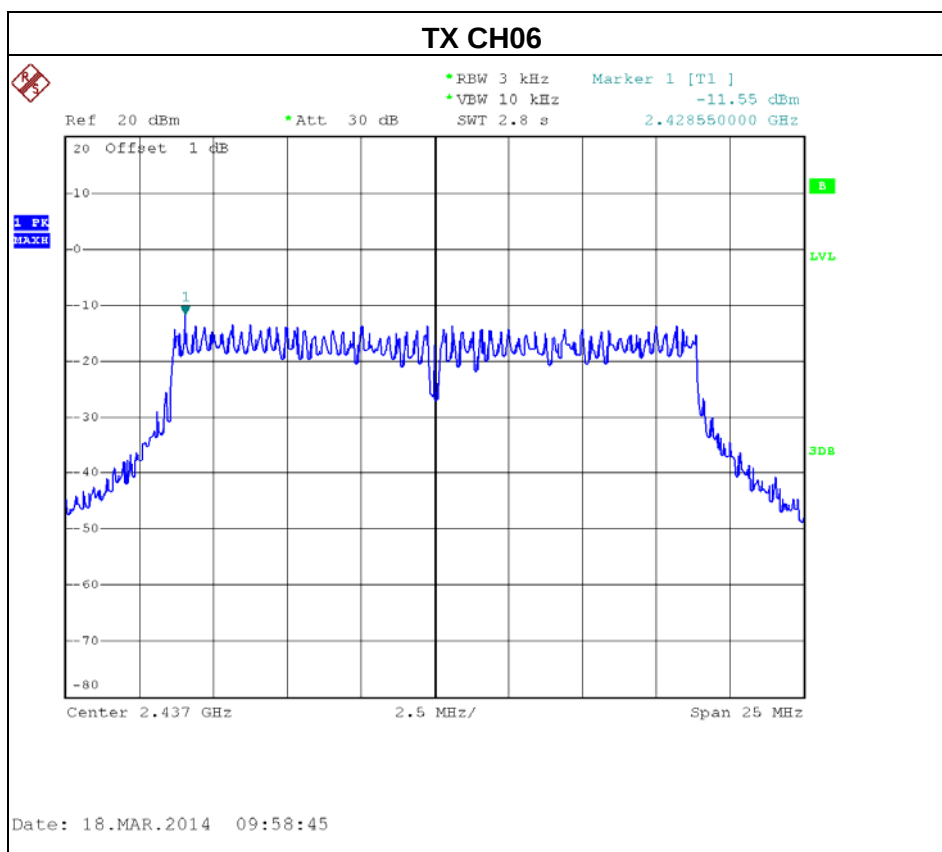






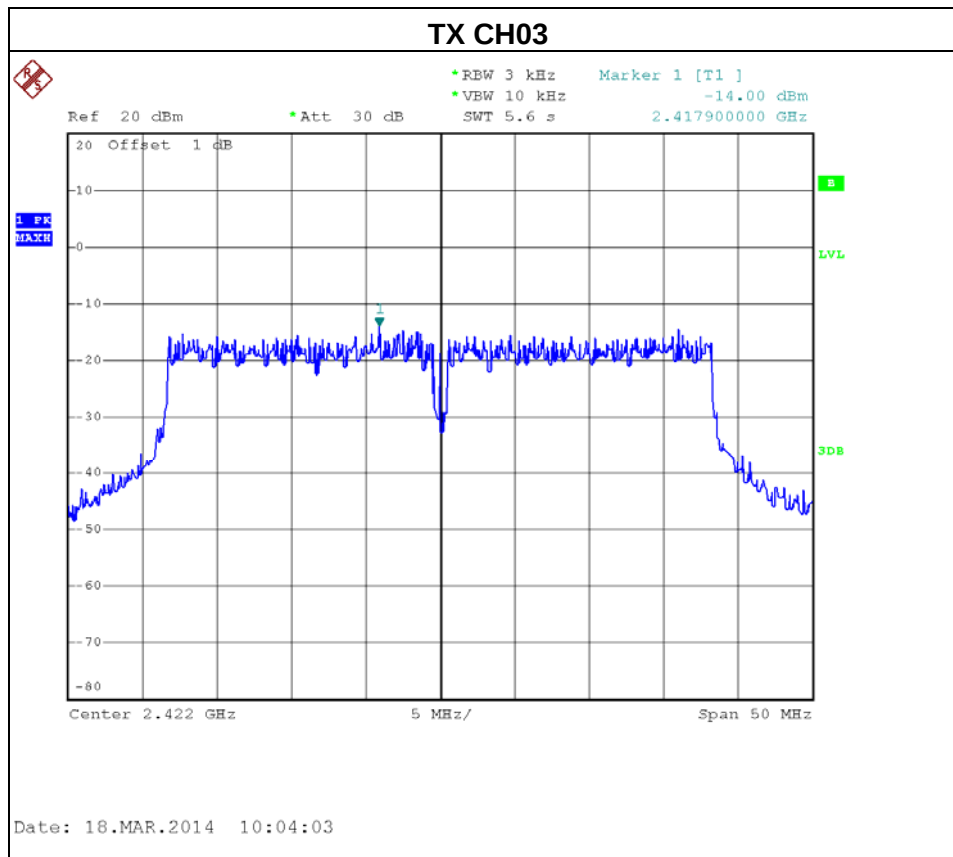
Test Mode : TX N-20M Mode_CH01/06/11

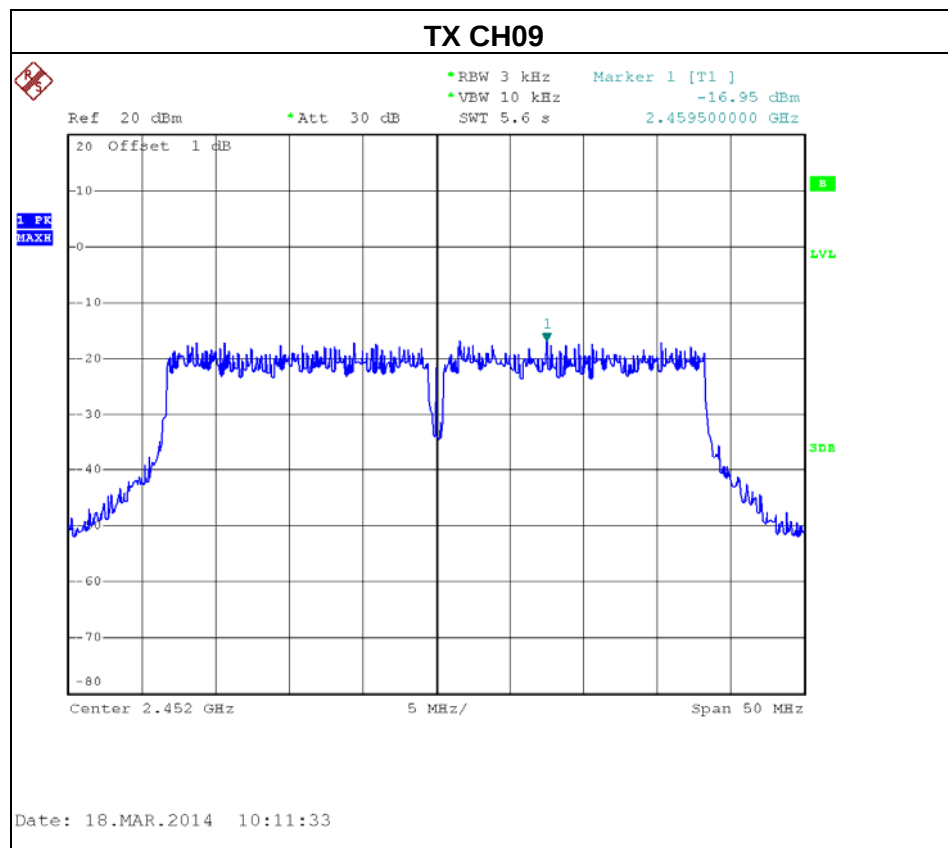
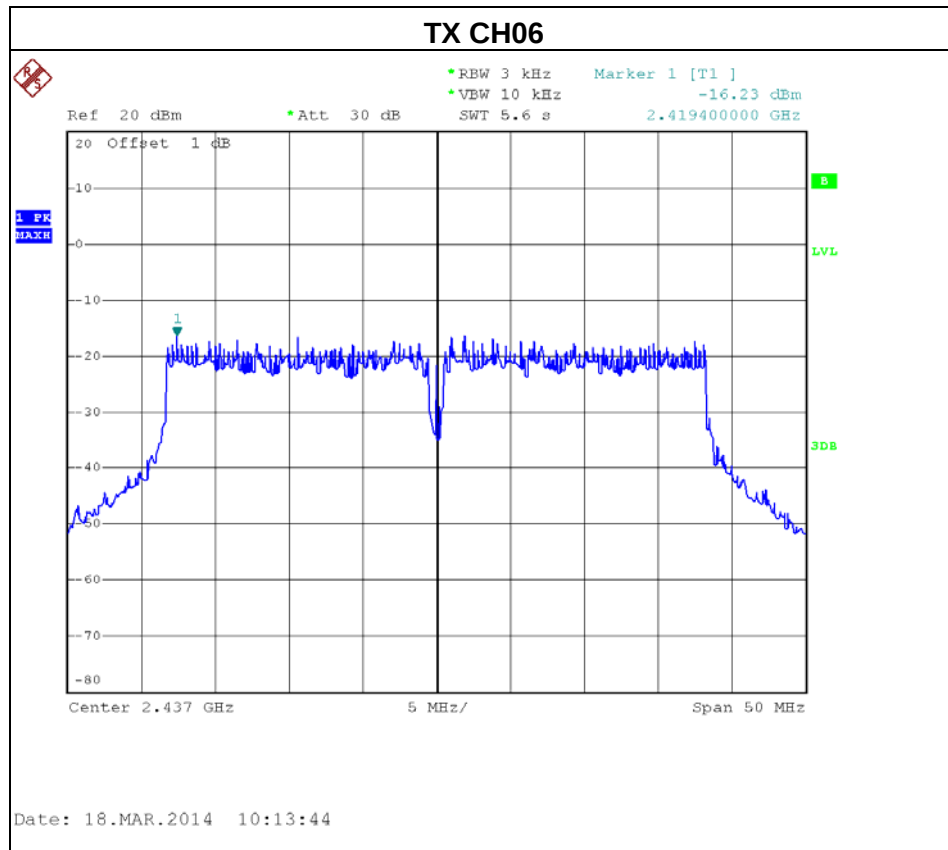






Test Mode : TX N-40M Mode_CH03/06/09







9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014
2	LISN	R&S	ENV216	100087	Nov. 09, 2014
3	Test Cable	N/A	C_17	N/A	Mar.14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Apr. 25, 2014
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014
5	Antenna	ETS	3115	00075789	Apr. 25, 2014
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014
8	Test Cable	HUBER+SUHNER	C-45	N/A	Apr. 30, 2014
9	Controller	CT	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Apr. 25, 2014
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct. 22, 2014

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 25, 2014
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 25, 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. 09, 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. 09, 2014

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

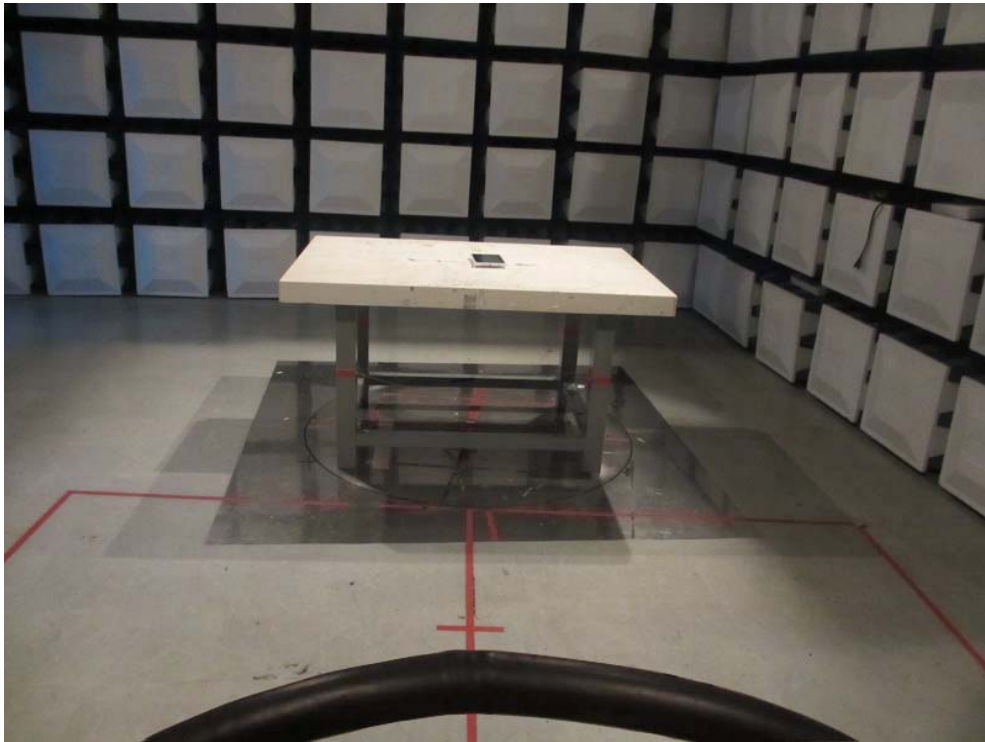


10. EUT TEST PHOTO

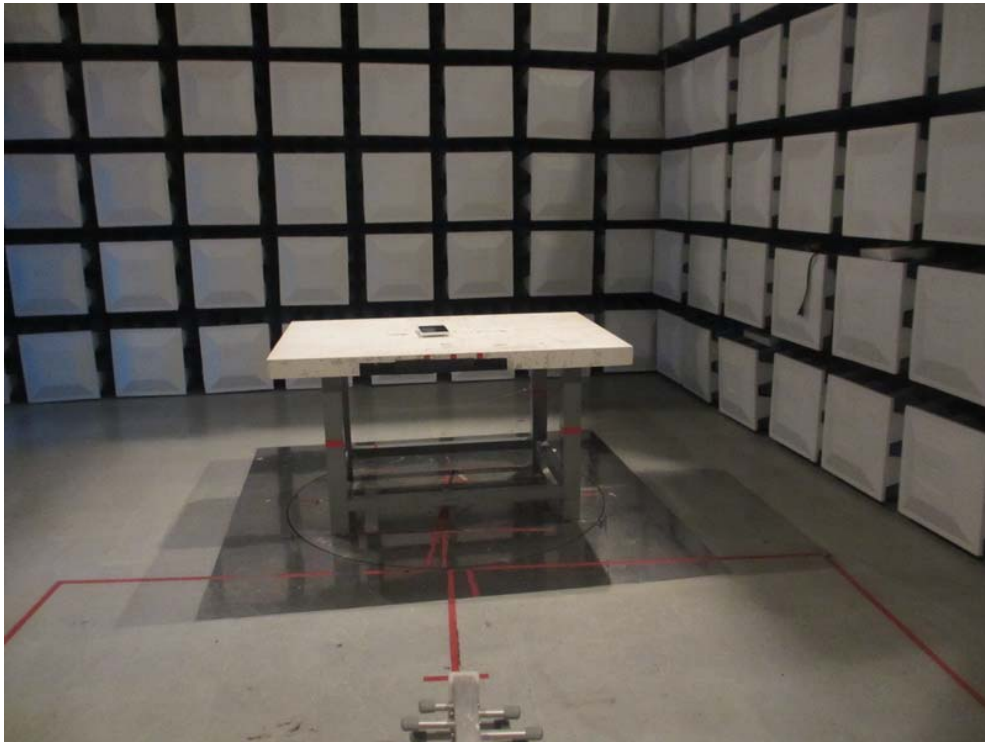
Conducted Measurement Photos



**Radiated Measurement Photos
9K~30MHz**



**Radiated Measurement Photos
30~1000MHz**



**Radiated Measurement Photos
Above 1000MHz**

