

FCC Radio Test Report

FCC ID: V7TMESH12

This report concerns: Original Grant

Project No.	:	2003C093
Equipment	:	AC2100 Tri-band Whole Home Mesh WiFi System
Brand Name	:	Tenda
Test Model	:	Mesh12
Series Model	:	MW12, MW12a, MW12c, CM12
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Date of Receipt	:	Mar. 12, 2020
Date of Test	:	Mar. 19, 2020 ~ Apr. 09, 2020
Issued Date	:	Jun. 28, 2020
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2020031237
Standard(s)	:	FCC Part15, Subpart C (15.247) ANSI C63.10-2013
		FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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

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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. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 28, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.247)						
Standard(s) Section	Standard(s) Section Test Item		Judgment	Remark		
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS			
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS			
15.247(a)(2)	Bandwidth	APPENDIX E	PASS			
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS			
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS			
15.247(e)	Power Spectral Density	APPENDIX H	PASS			
15.203	Antenna Requirement		PASS	Note(2)		

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's Test Firm Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)) The BTL measurement uncertainty as below table:

AC power line conducted emissions test: Α.

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

Β. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	Н	3.57
	CISPR	30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	Н	4.14
DG-CB03		200MHz ~ 1,000MHz	V	4.62
DG-CB03		200MHz ~ 1,000MHz	Н	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25 ℃	55%	AC 120V/60Hz AC 240V/60Hz	Sheldon Ou
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-30 MHz to 1GHz	24 ℃	68%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-Above 1000 MHz	24 ℃	68%	AC 120V/60Hz	Sheldon Ou
Bandwidth	25°C	60%	DC 12V	Hayden Chen
Maximum output power	25°C	60%	DC 12V	Laughing Zhang
Conducted Spurious Emissions	25°C	60%	DC 12V	Hayden Chen
Power Spectral Density	25°C	60%	DC 12V	Hayden Chen



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC2100 Tri-band Whole Home Mesh WiFi System		
Brand Name	Tenda		
Test Model	Mesh12		
Series Model	MW12, MW12a, MW12c, CM12		
Model Difference(s)	Only differ in model name.		
Power Source	DC Voltage supplied from AC adapter. Model: BN067-A18012U		
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V === 1.5A		
Operation Frequency	2412 MHz ~ 2462 MHz		
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM		
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps		
Maximum Output Power Non-Beamforming	IEEE 802.11b: 26.19 dBm (0.4159 W) IEEE 802.11g: 29.03 dBm (0.7998 W) IEEE 802.11n (HT20): 29.98 dBm (0.9954 W) IEEE 802.11n (HT40): 29.42 dBm (0.8750 W)		
Maximum Output Power Beamforming	IEEE 802.11n (HT20): 26.42 dBm (0.0439 W) IEEE 802.11n (HT40): 26.41 dBm (0.0428 W)		

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 IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03 - CH09 for IEEE 802.11n (HT40)						
Channel							
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		



3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	3.52
2	N/A	N/A	Internal	N/A	3.52

Note: This EUT supports CDD, and all antennas have the same gain, so,

 For Non Beamforming, Directional gain=G_{ANT}+Array Gain. For output power measurements, Array Gain=0 (N_{ANT} ≤ 4), so the Directional gain=3.52. For power spectral density measurements, Array Gain=10log(N_{ANT}/N_{SS}) dB, so the Directional gain=3.52+10log(2/1)=6.53. So, the power spectral density limit is 8-(6.53-6)=7.47.

2) For Beamforming, Beamforming Gain: 3dB. So the Directional gain=3+3.52=6.52. So the output power limit is 30-(6.52-6)=29.48

4. Table for Antenna Configuration:

Non Beamforming:

Operating Mode TX Mode	1TX	2TX
IEEE 802.11b	V (Ant. 1)	-
IEEE 802.11g	V (Ant. 1)	-
IEEE 802.11n(HT20)	-	V (Ant. 1+ Ant. 2)
IEEE 802.11n(HT40)	-	V (Ant. 1+ Ant. 2)

Beamforming:

Operating Mode TX Mode	2TX
IEEE 802.11n(HT20)	V (Ant. 1+ Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1+ Ant. 2)

2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	
Mode 5	TX N-20 Mode Channel 06	

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test		
Final Test Mode: Description		
Mode 5	TX N-20 Mode Channel 06	

Radiated emissions test - Below 1GHz		
Final Test Mode: Description		
Mode 5	TX N-20 Mode Channel 06	

Radiated emissions test- Above 1GHz		
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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

Maximum Output Power test_Non Beamforming			
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-20 MHz Mode Channel 01/06/11		
Mode 4	TX N-40 MHz Mode Channel 03/06/09		

Maximum Output Power test_ Beamforming		
Final Test Mode Description		
Mode 3	TX N-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

Conducted 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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

NOTE:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: CCK (1 Mbps) 802.11g mode: OFDM (6 Mbps) 802.11n HT20 mode : BPSK (6.5 Mbps) 802.11n HT40 mode : BPSK (13.5 Mbps) For radiated emission tests, the highest of
 - For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n20 Channel 06 is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (5) The measurements for Power were tested, the Non Beamforming and Beamforming were recorded in this report. The worst case was Non Beamforming and only the worst case was documented for other test items.
- (6) For radiated emissions, the TX WLAN 2.4G N20 Mode 2437 + WLAN 5G N40 Mode 5755MHz was found the worst case of simultaneous transmission and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

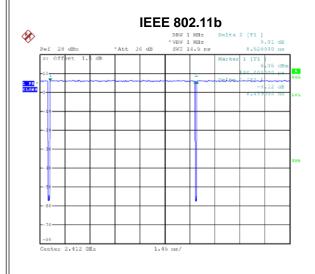
Non-Beamforming					
Test Software	MP-v3.6				
Frequency (MHz)	2412	2412 2437 2462			
IEEE 802.11b	44	46	46		
IEEE 802.11g	42	48	42		
IEEE 802.11n (HT20)	38	42	38		
Frequency (MHz)	2422	2437	2452		
IEEE 802.11n (HT40)	35	44	35		

D	f	rming	
Roa	mto	rmina	1
Dua			4

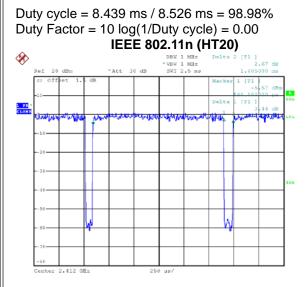
2000.000				
Test Software	MP-v3.6			
Frequency (MHz)	2412	2437	2462	
IEEE 802.11n (HT20)	34	34	34	
Frequency (MHz)	2422	2437	2452	
IEEE 802.11n (HT40)	34	33	34	

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2.4 DUTY CYCLE



Date: 16.MAR.2020 09:48:35



Date: 16.MAR.2020 09:49:50

Duty cycle = 1.310 ms / 1.405 ms = 93.24% Duty Factor = 10 log(1/Duty cycle) = 0.30

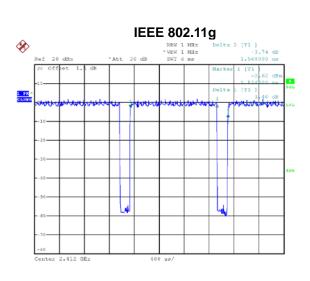


For IEEE 802.11g and IEEE 802.11n (HT20):

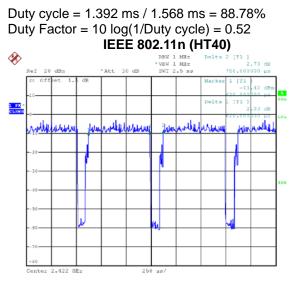
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).



Date: 16.MAR.2020 09:49:30



Date: 16.MAR.2020 09:51:13

Duty cycle = 0.620 ms / 0.750 ms = 82.67%Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.83$



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 2 EUT 1 EUT Adapter AC 100-240V 2 Notebook А 2.6 SUPPORT UNITS Item Equipment Brand Model No. Series No. А Notebook Dell Inspiron 15-7559 N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m
2	RJ45 Cable	NO	NO	10m



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

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	

3.2 TEST PROCEDURE

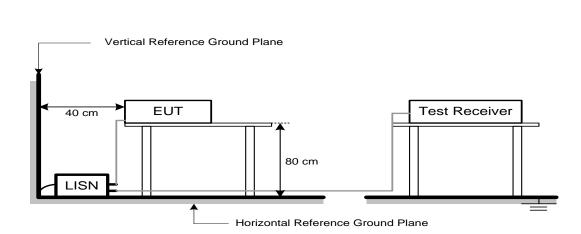
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.

3.3 DEVIATION FROM TEST STANDARD

No deviation



3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.



4. RADIATED EMISSIONS TEST

4.1 LIMIT

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 (9 kHz-1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter) (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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)		
		Peak	Average
	Above 1000	74	54

NOTE:

- (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	1 MHz / 3 MHz for Peak,	
(Emission in restricted band)	1 MHz / 1/T for Average	

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

4.2 TEST PROCEDURE

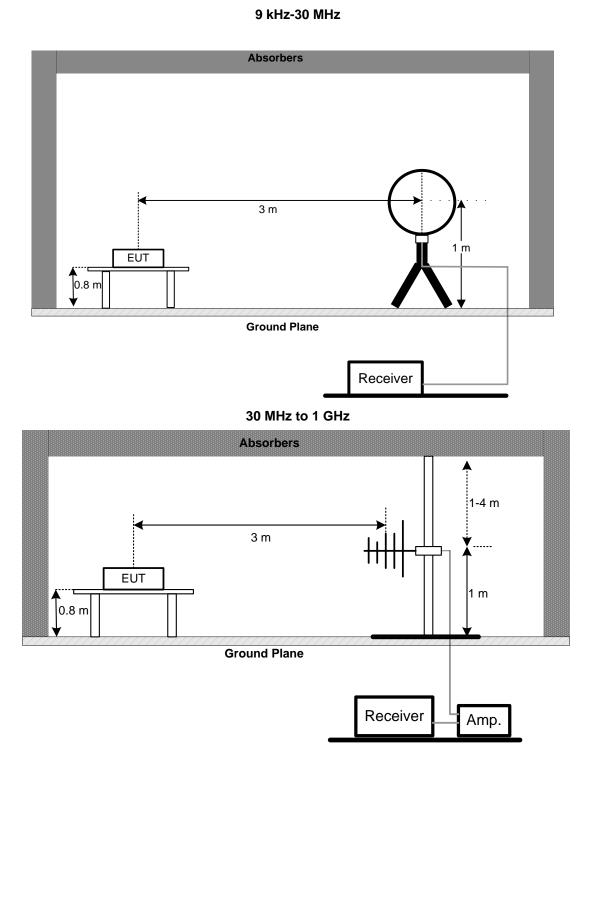
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance 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 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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. 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).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. 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.
- g. 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.3 DEVIATION FROM TEST STANDARD

No deviation

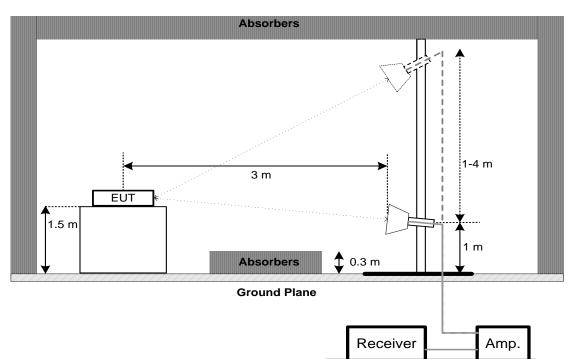


4.4 TEST SETUP





Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX 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 LIMIT

FCC Part15, Subpart C (15.247)				
Section Test Item Limit				
45.047(0)(0)	6 dB Bandwidth	Minimum 500 kHz		
15.247(a)(2)	99% Emission Bandwidth	-		

5.2 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:

For 6 dB Bandwidth : RBW= 100 kHz, VBW=300 kHz, Sweep time = auto.

For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms. For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz, VBW=3 MHz, Sweep time = 2.5 ms.

c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



SPECTRUM ANALYZER

5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.



6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247)				
Section Test Item Limit				
15.247(b)(3) Maximum Output Power 1 Watt or 30dBm				

6.2 TEST PROCEDURE

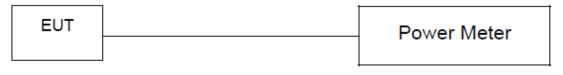
a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.

b. The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.



7. CONDUCTED SPURIOUS EMISSIONS

7.1 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 or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

7.2 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= 100 kHz, VBW=300 kHz, Sweep time = Auto.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



SPECTRUM ANALYZER

7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.



8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart C (15.247)				
Section Test Item Limit				
15.247(0)	Bower Spectral Density	8 dBm (in any 3 kHz)		
15.247(e)	Power Spectral Density	(in any 3 kHz)		

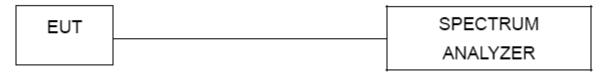
8.2 TEST PROCEDURE

- 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=3 kHz, VBW=10 kHz, Sweep time = Auto.
- c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021	
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021	
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May 19, 2020	
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Mar. 10, 2021	

	Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1*	Antenna	EM	EM-6876-1	230	Jan. 15, 2022	
2	Cable	N/A	RG 213/U	C-102	May 31, 2020	
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021	
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021	
2	Amplifier	HP	8447D	2944A08742	Mar. 01, 2021	
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020	
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 2020	
5	Controller	СТ	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF780208416	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

Radiated Emissions - Above 1 GHz								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 19, 2021			
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020			
3	Amplifier	Agilent	8449B	3008A02584	Aug. 03, 2020			
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021			
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020			
6	Controller	СТ	SC100	N/A	N/A			
7	Controller	MF	MF-7802	MF780208416	N/A			
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020			
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			

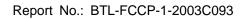


Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020			
Maximum Output Power								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020			
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020			

Remark: "N/A" denotes no model name, serial no. or calibration specified.

"*" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.



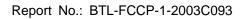


10. EUT TEST PHOTO

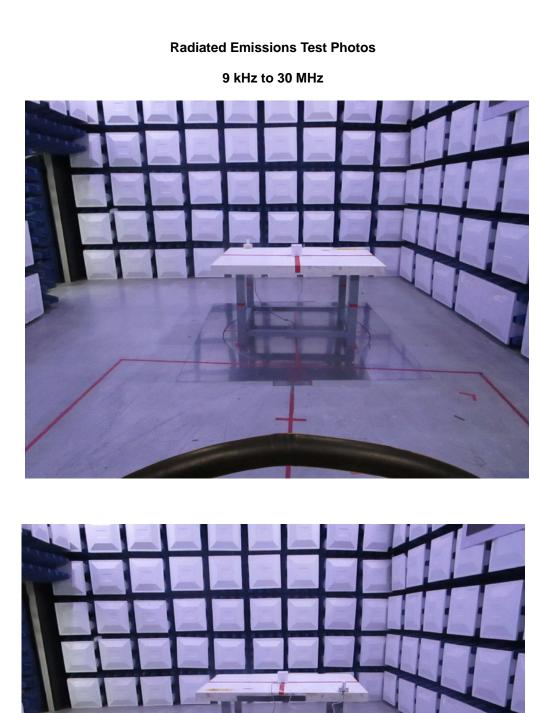
AC Power Line Conducted Emissions Test Photos

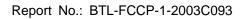




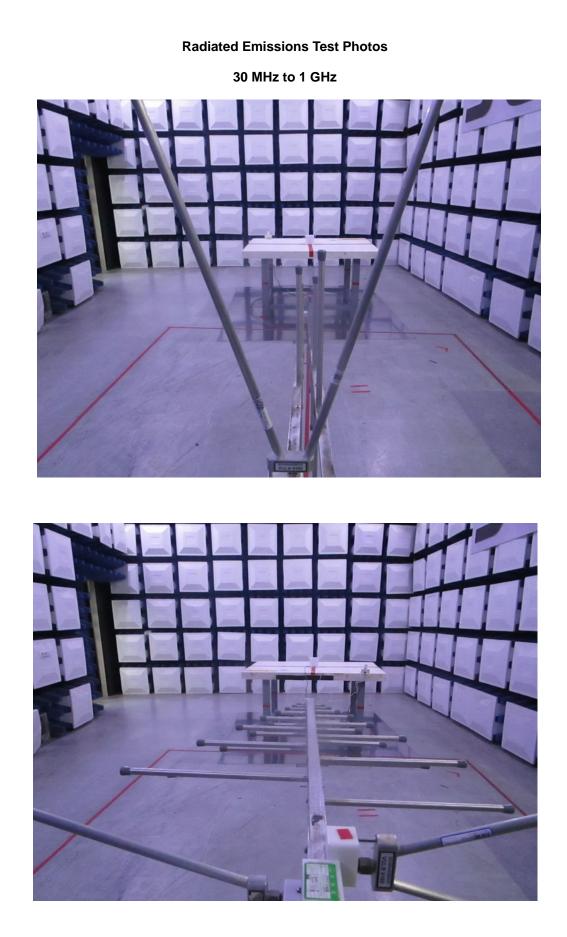
















Above 1 GHz

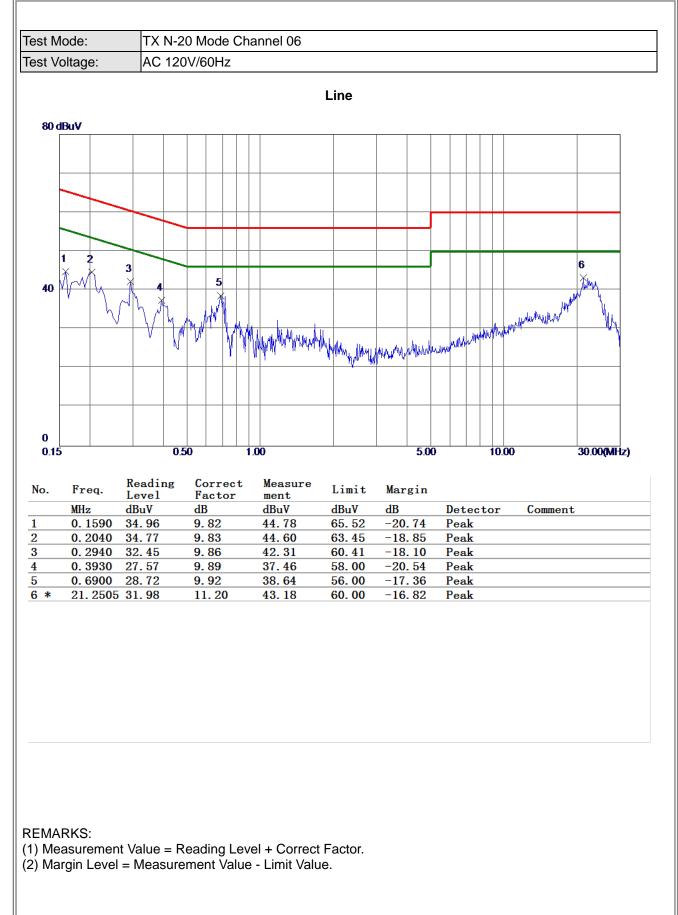




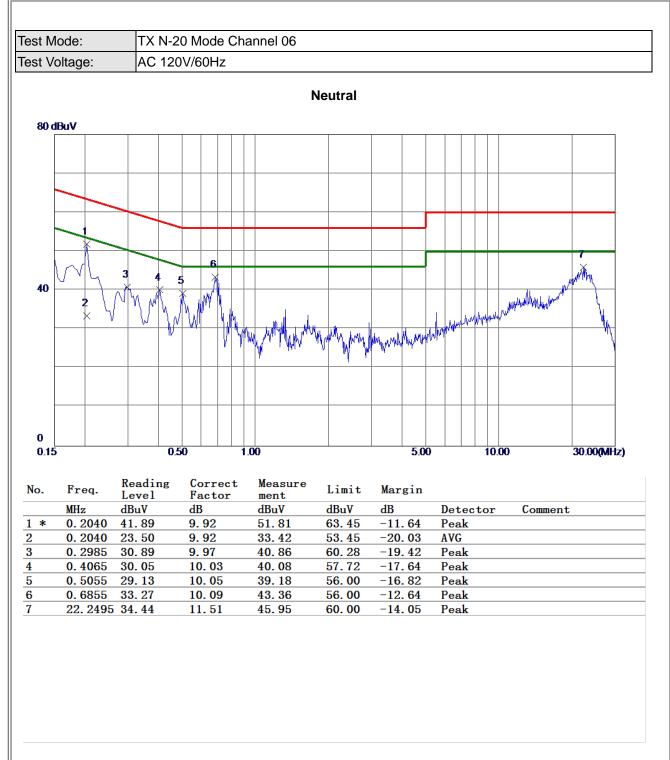


APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS





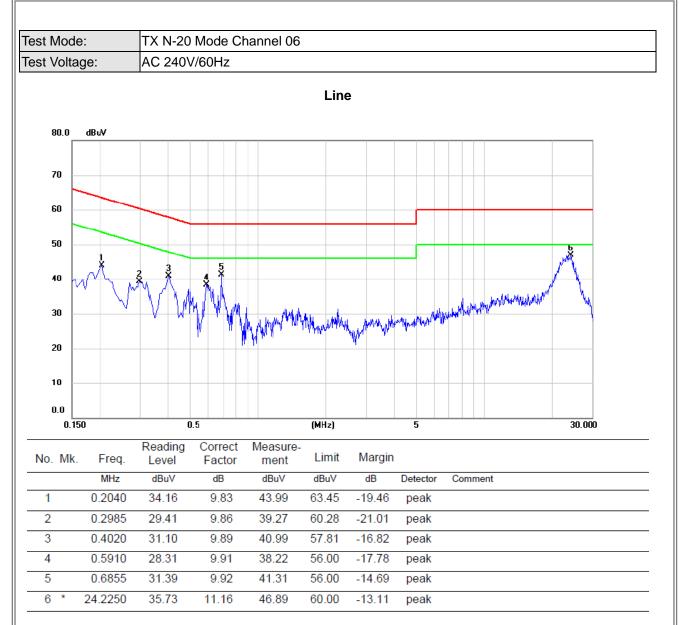




REMARKS: (1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

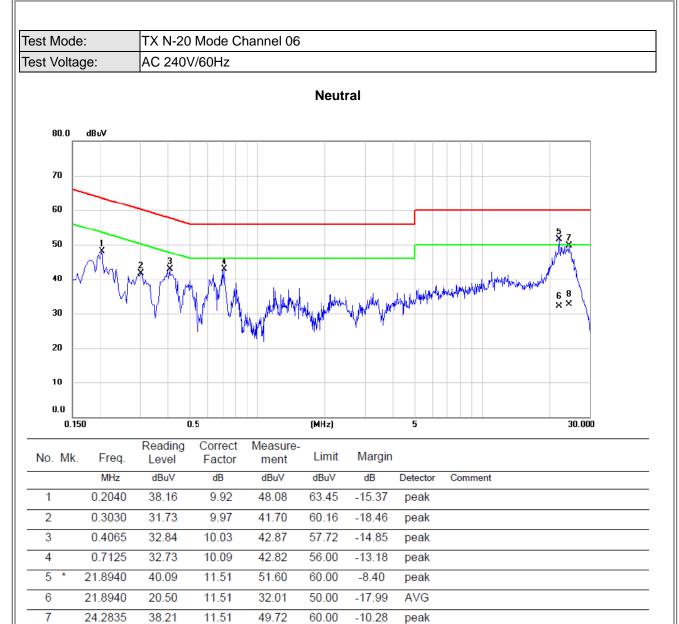




REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





REMARKS:

8

24.2835

(1) Measurement Value = Reading Level + Correct Factor.

11.51

32.61

50.00

-17.39

AVG

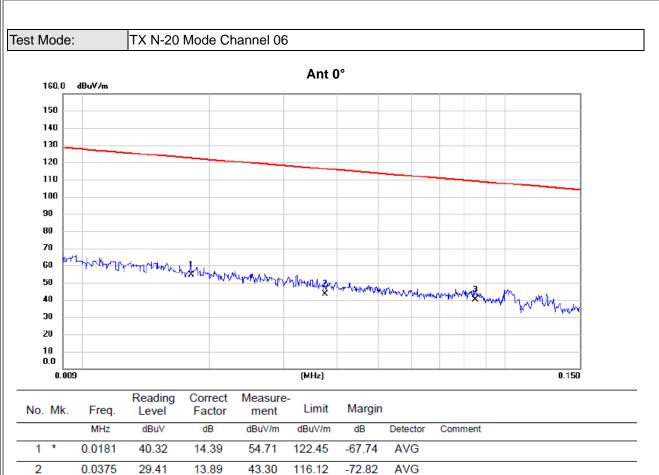
(2) Margin Level = Measurement Value - Limit Value.

21.10



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ





3

0.0851

(1) Measurement Value = Reading Level + Correct Factor.

13.54

40.37

109.01

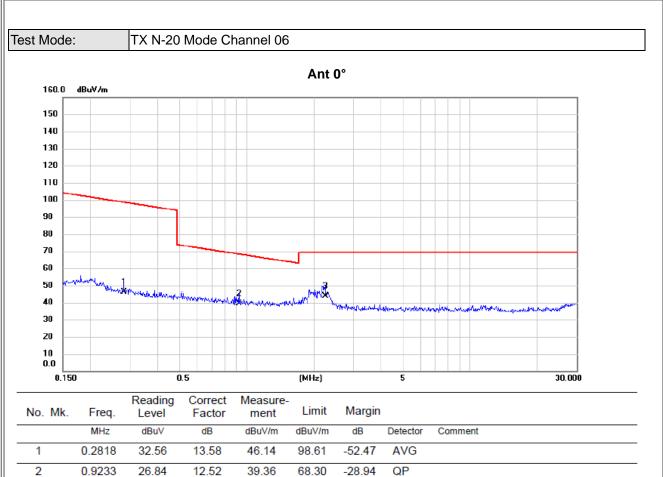
-68.64

AVG

(2) Margin Level = Measurement Value - Limit Value.

26.83





69.54

43.85

QP

-25.69

REMARKS:

3

*

2.2486

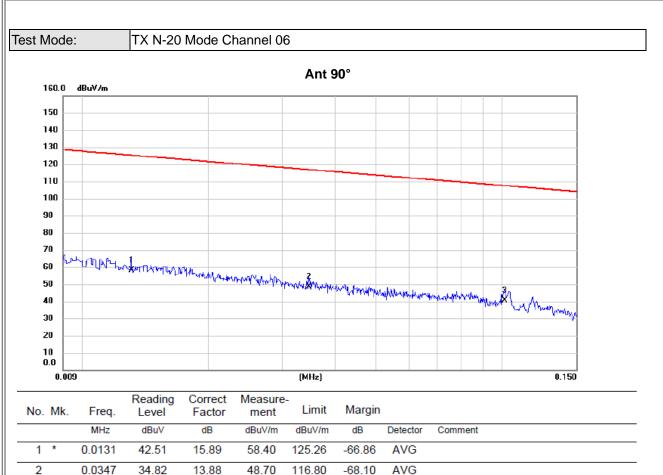
(1) Measurement Value = Reading Level + Correct Factor.

11.67

(2) Margin Level = Measurement Value - Limit Value.

32.18





3

0.1012

(1) Measurement Value = Reading Level + Correct Factor.

13.54

40.48

107.50

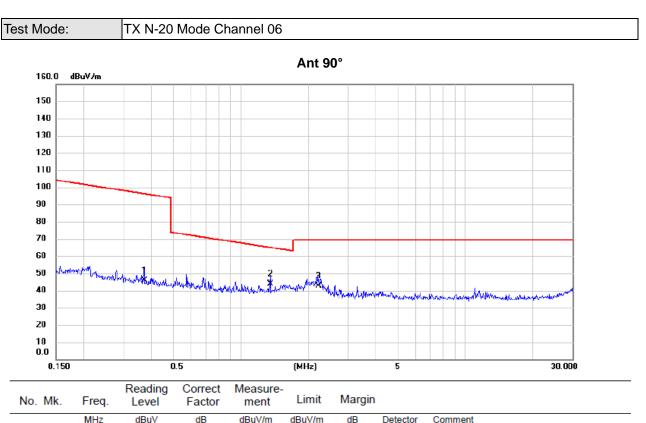
-67.02

QP

(2) Margin Level = Measurement Value - Limit Value.

26.94





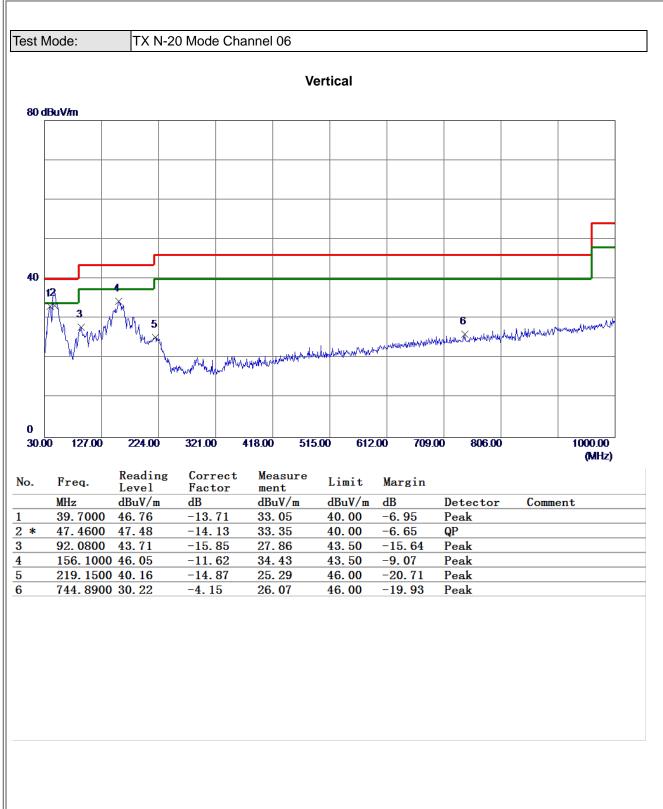
NO. MIN.	ricq.	Level	racior	ment		margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3712	32.61	13.37	45.98	96.21	-50.23	AVG	
2 *	1.3521	31.65	12.26	43.91	64.98	-21.07	QP	
3	2.2132	30.82	11.69	42.51	69.54	-27.03	QP	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



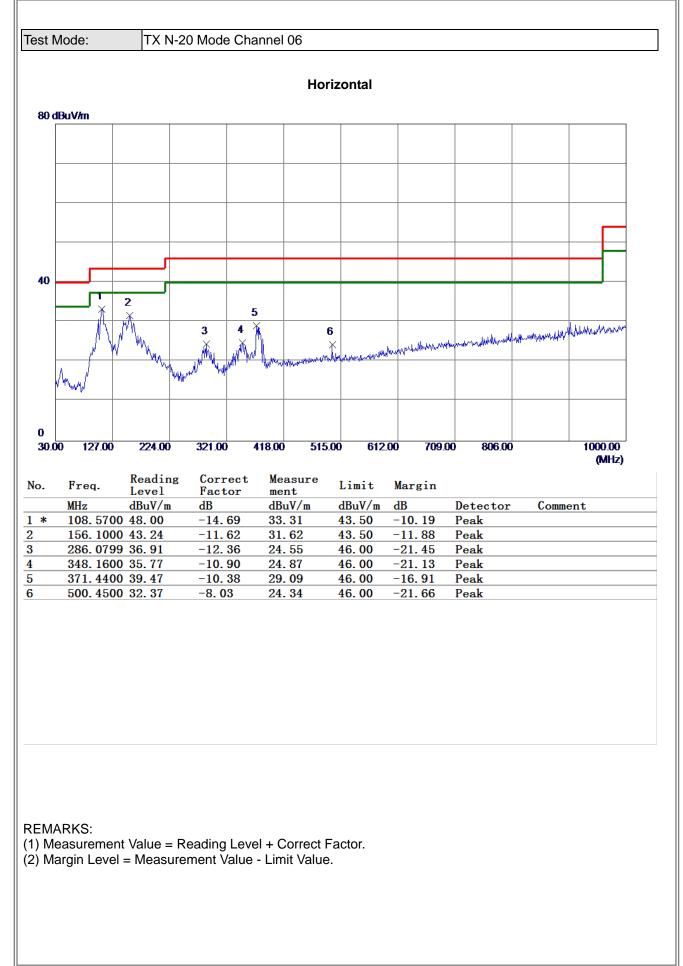
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

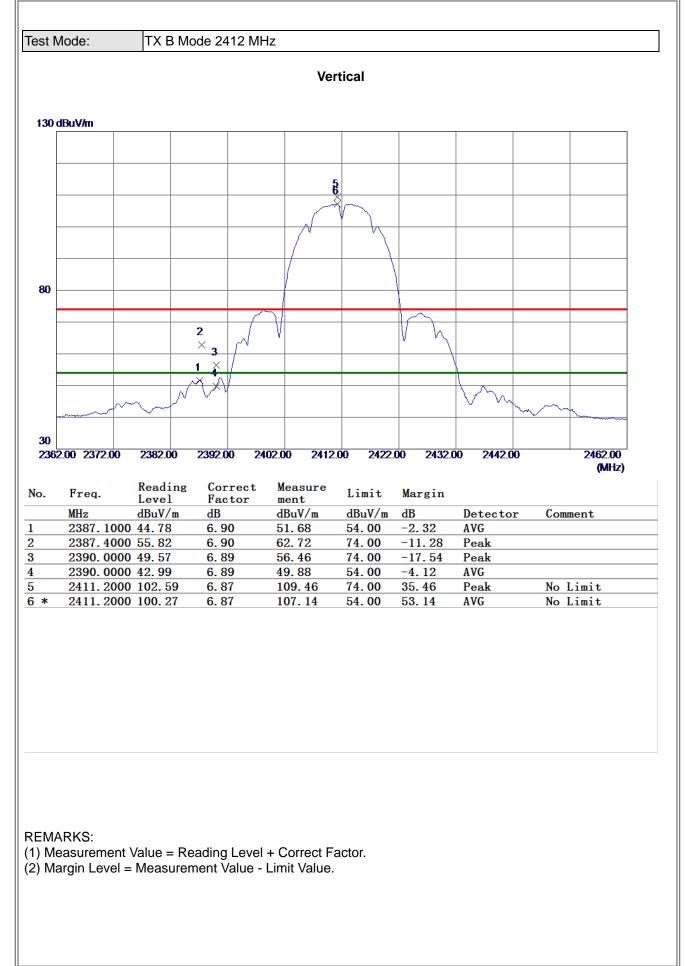




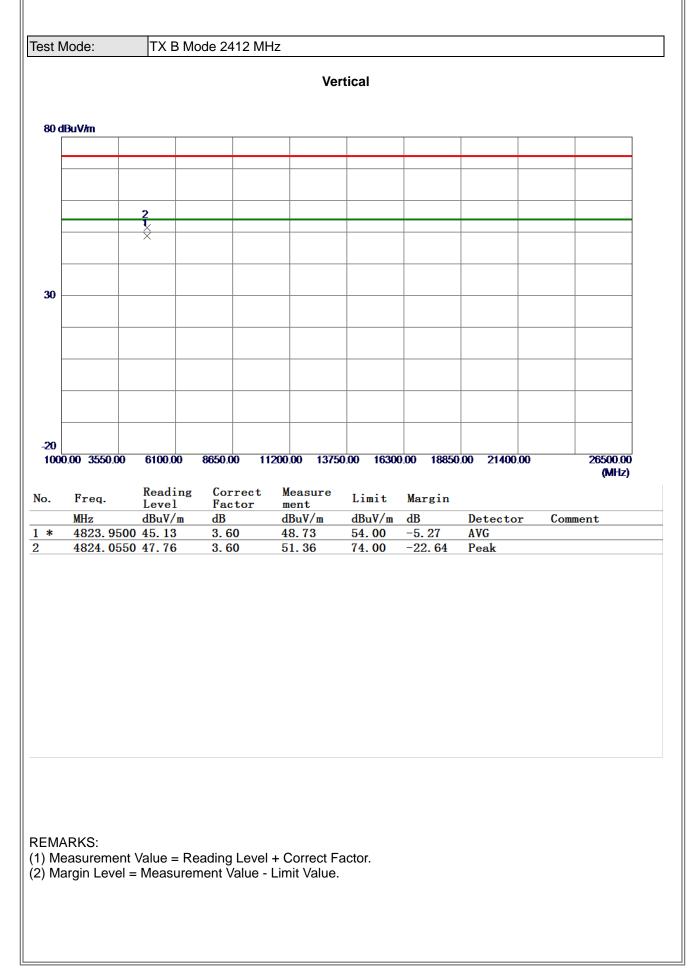


APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

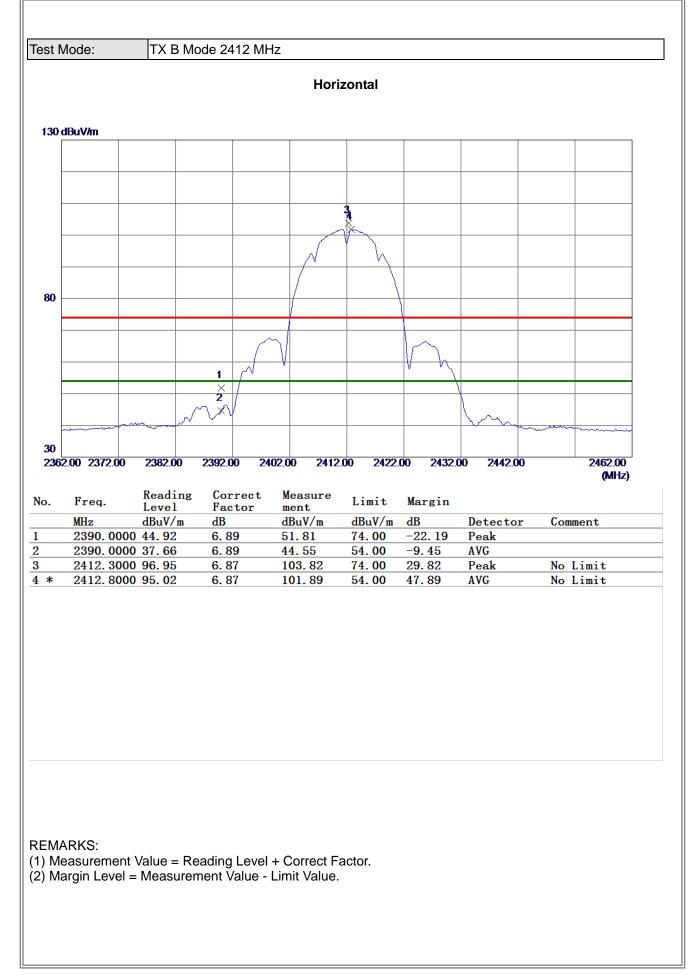




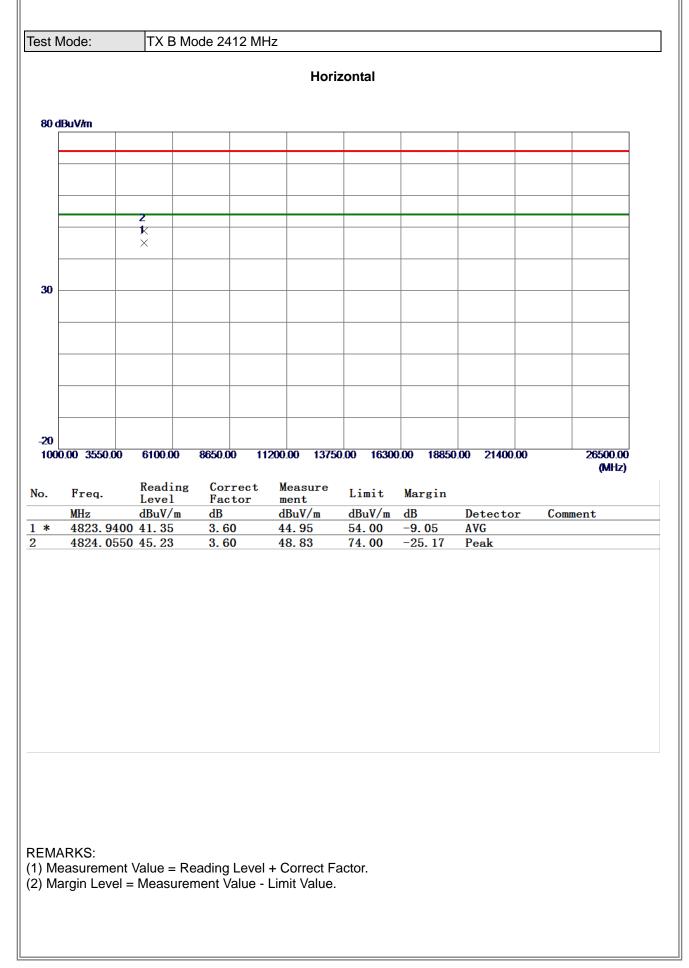




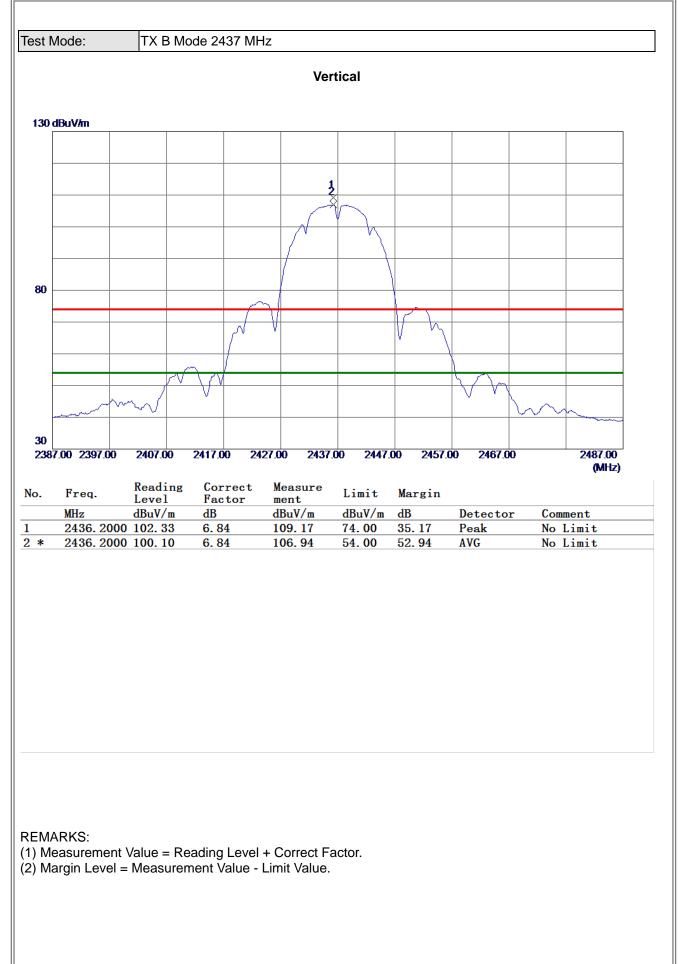




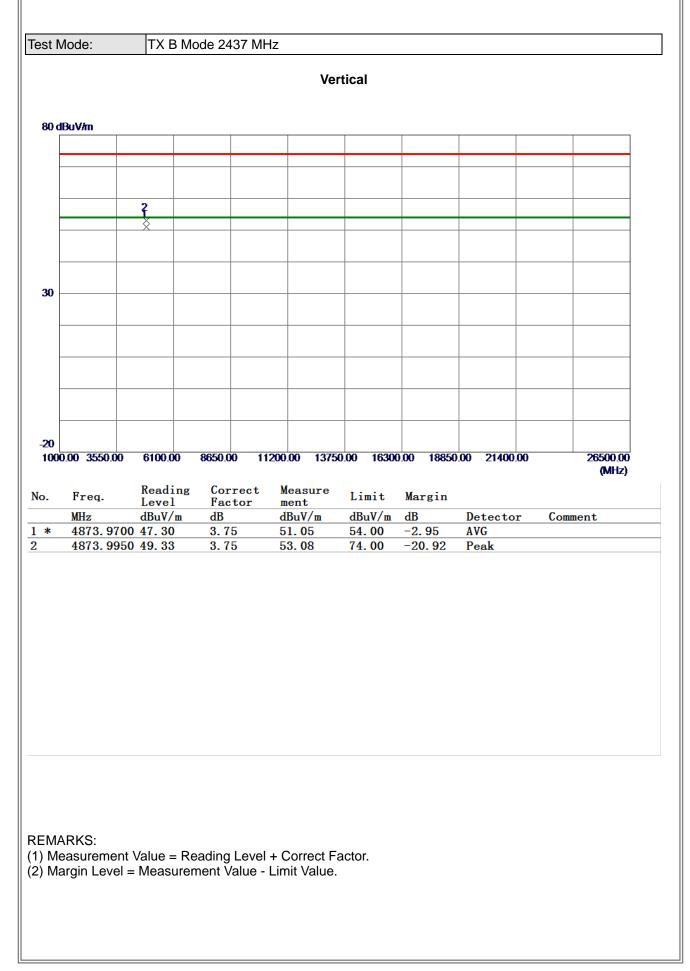




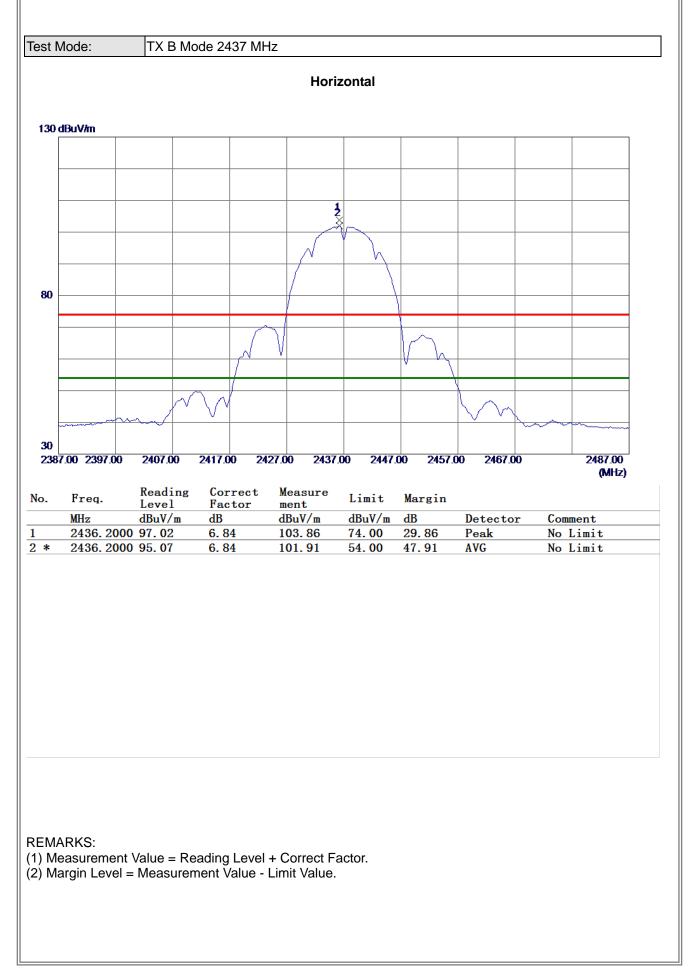




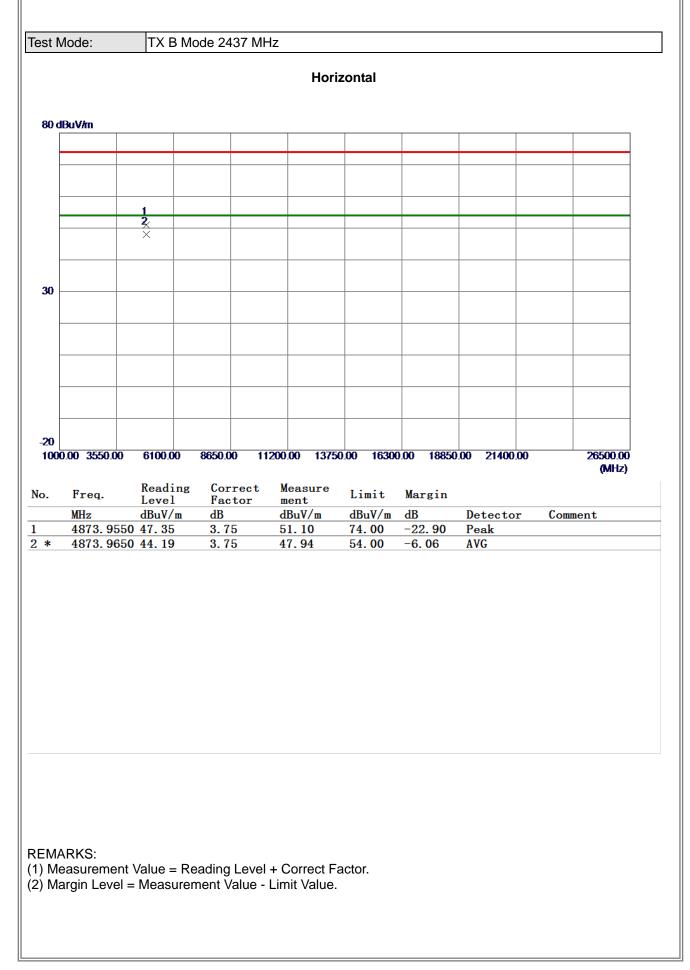




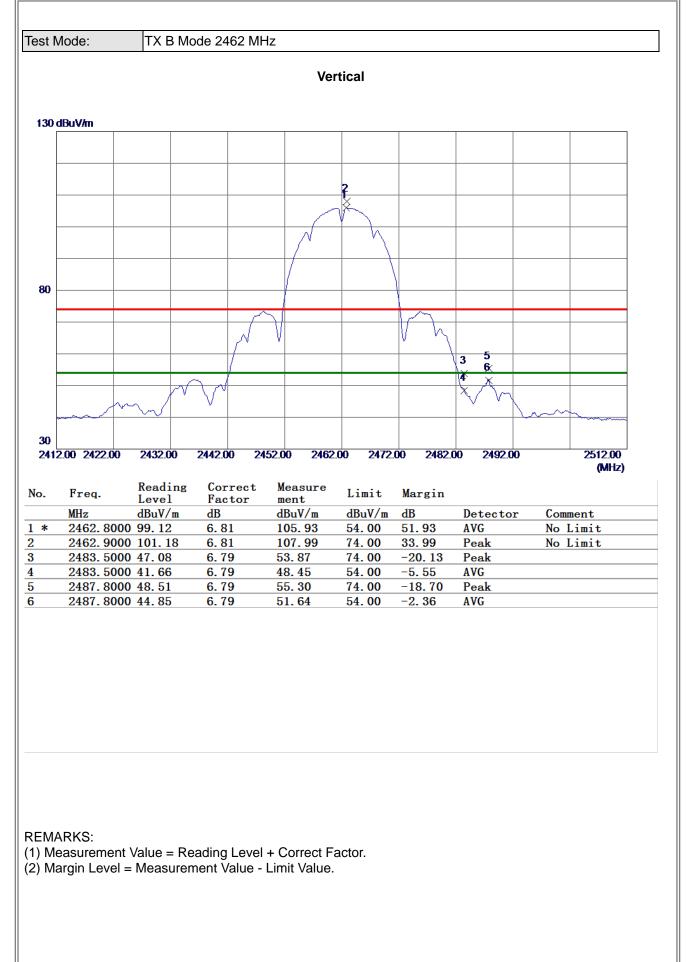




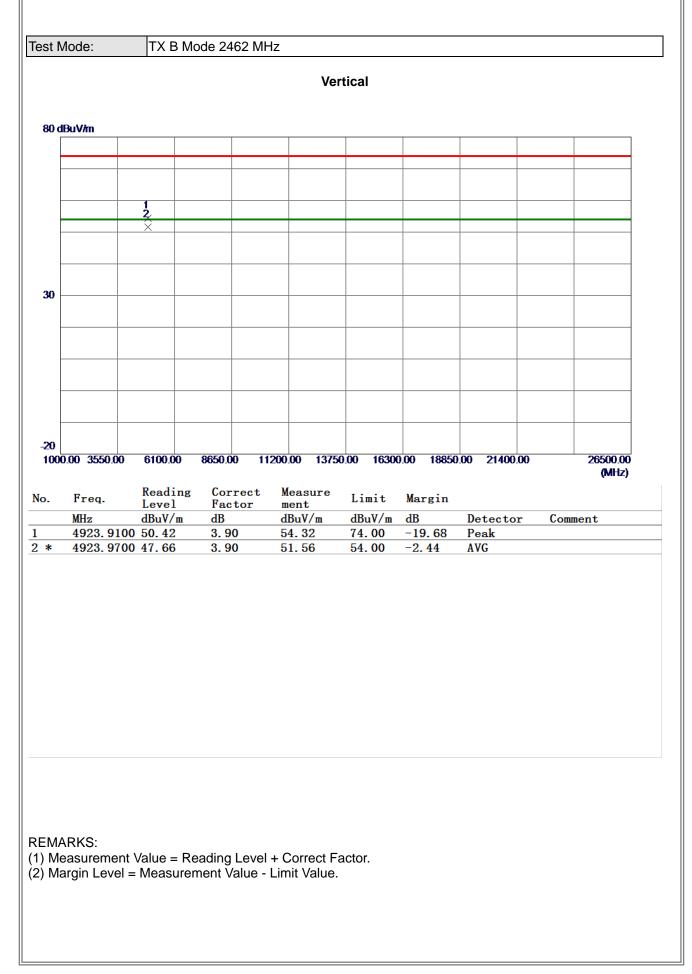




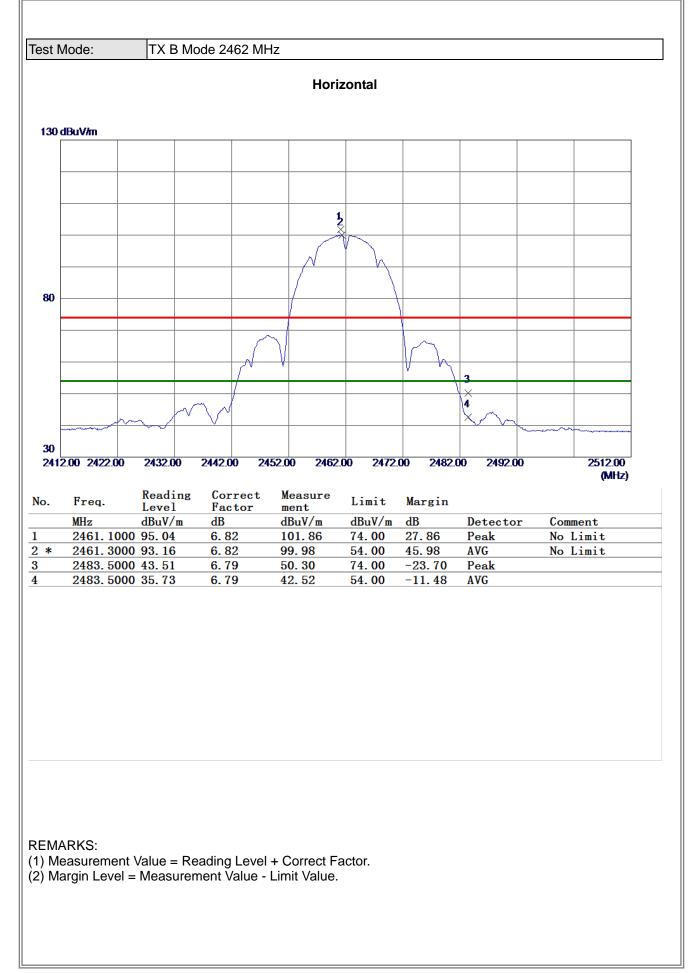




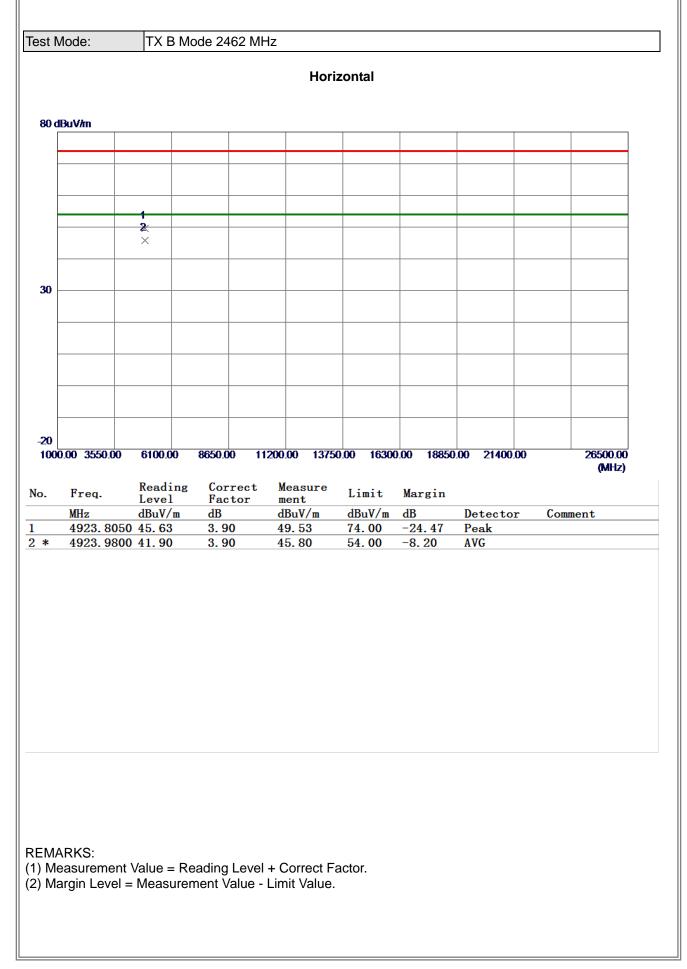




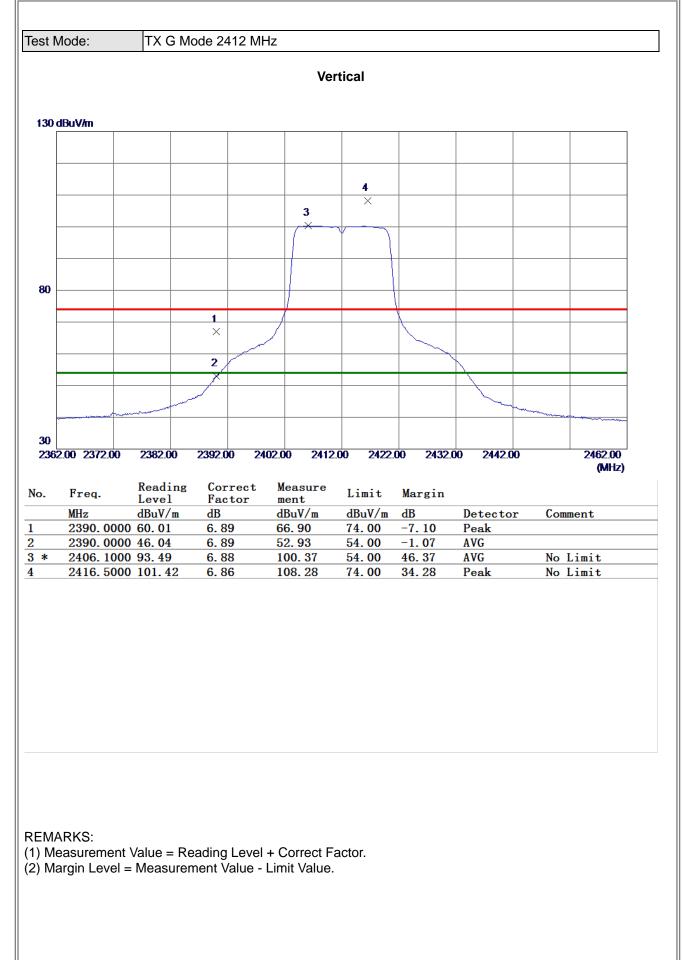




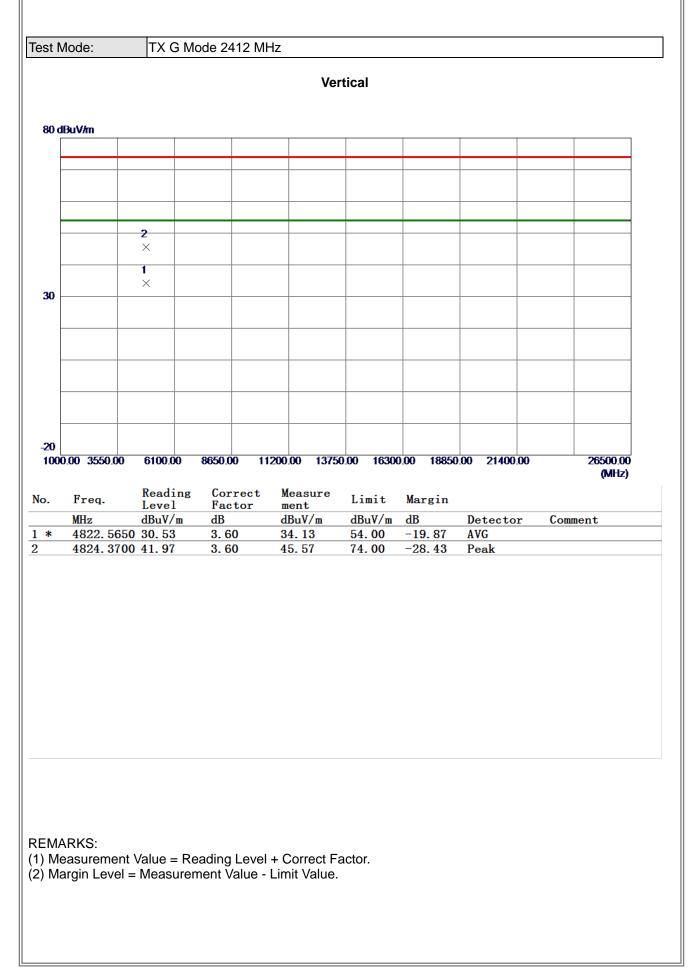




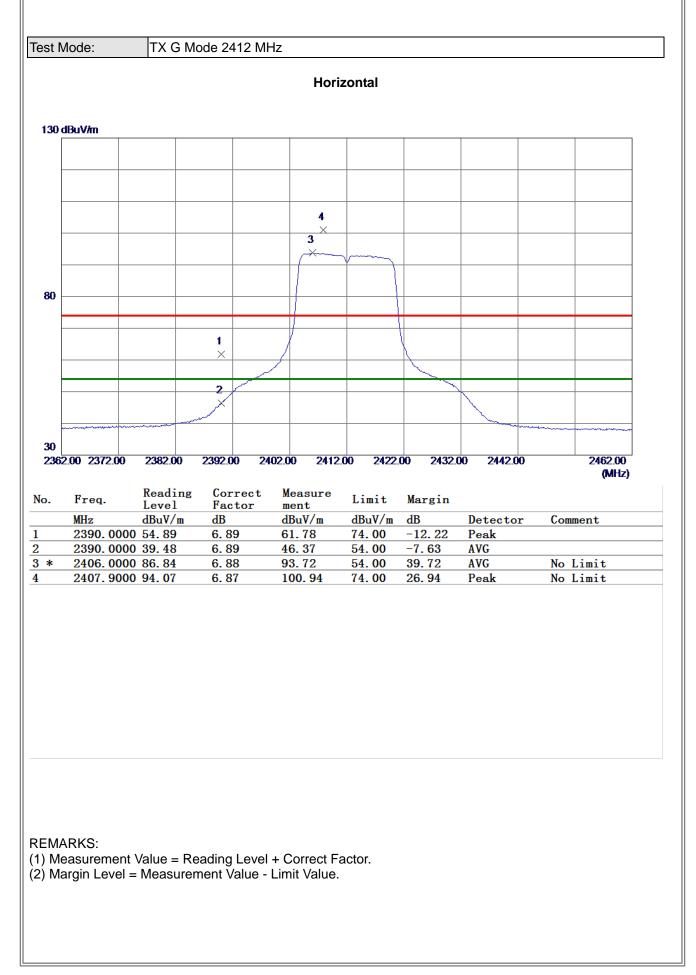




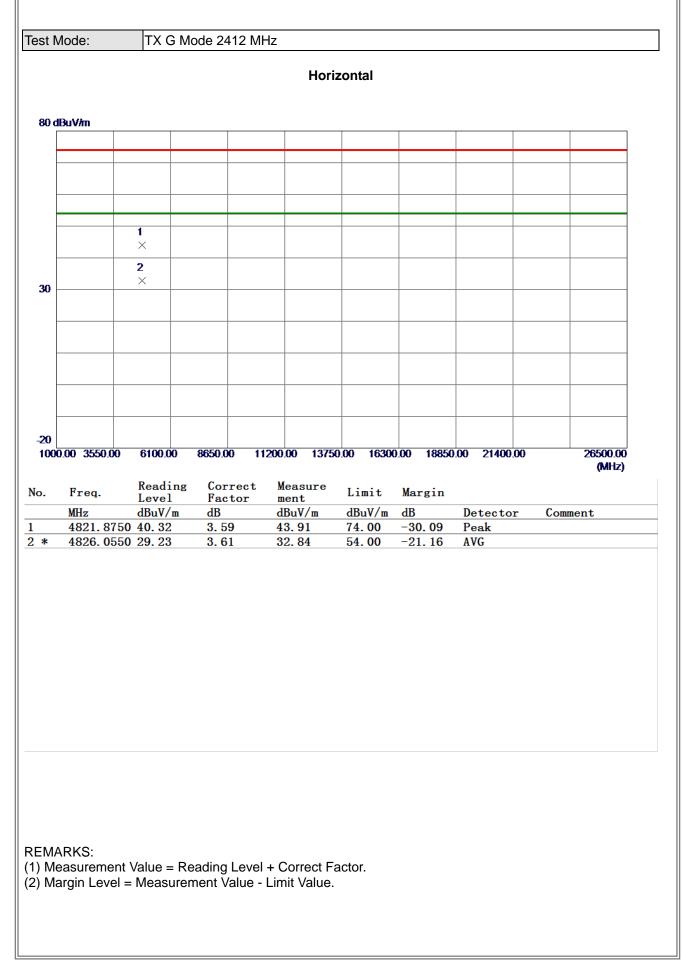




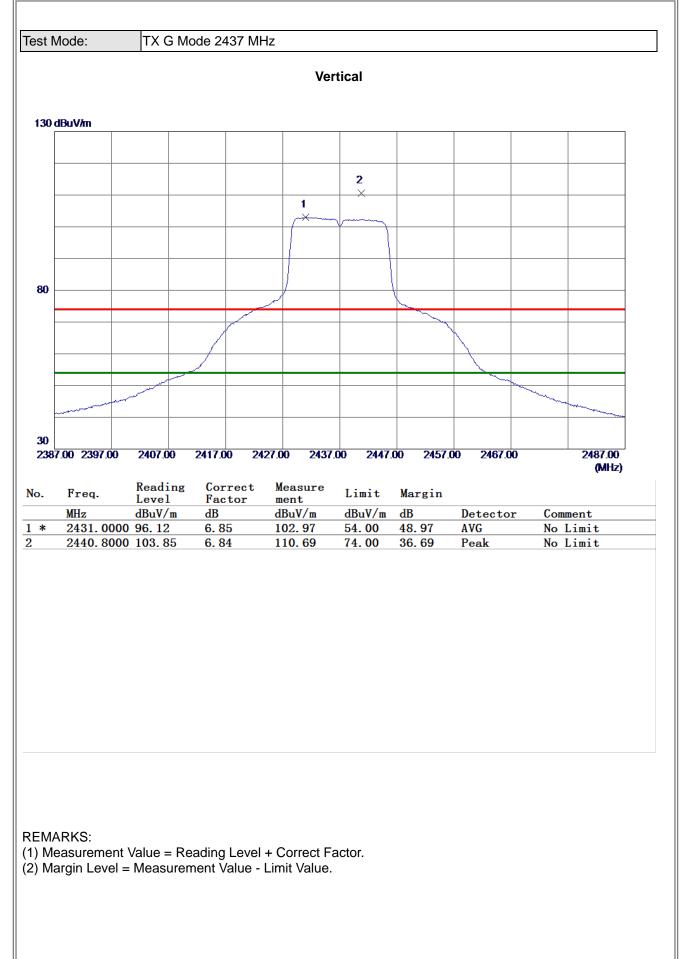




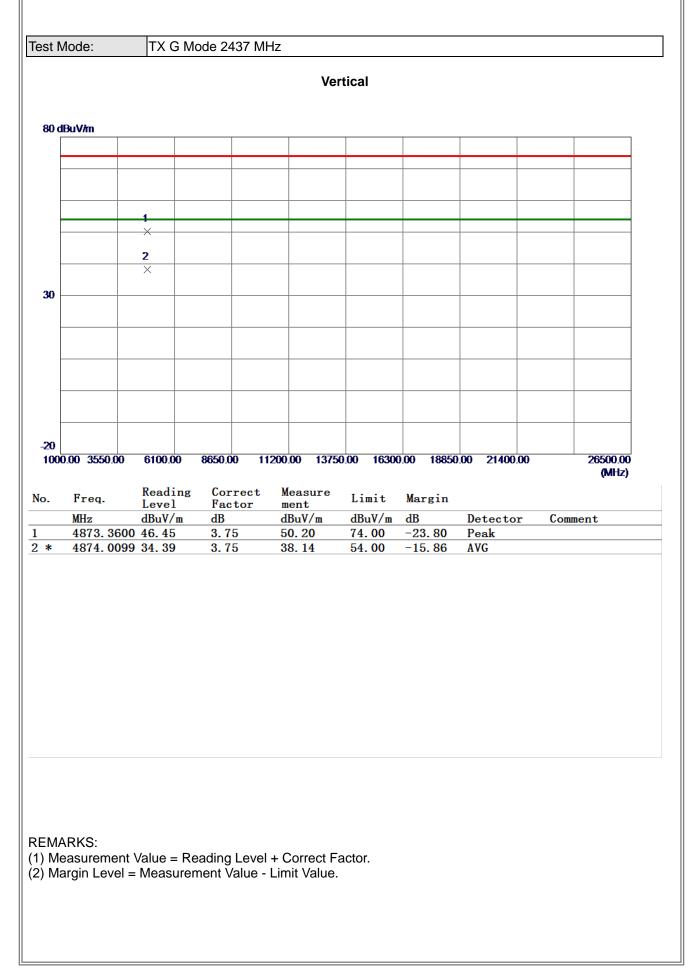




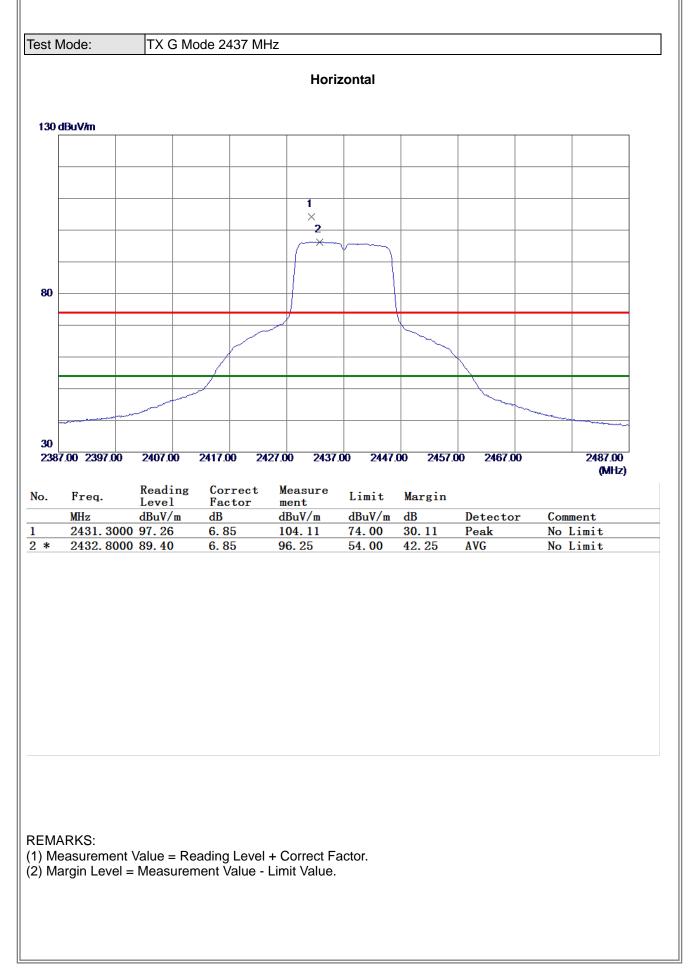




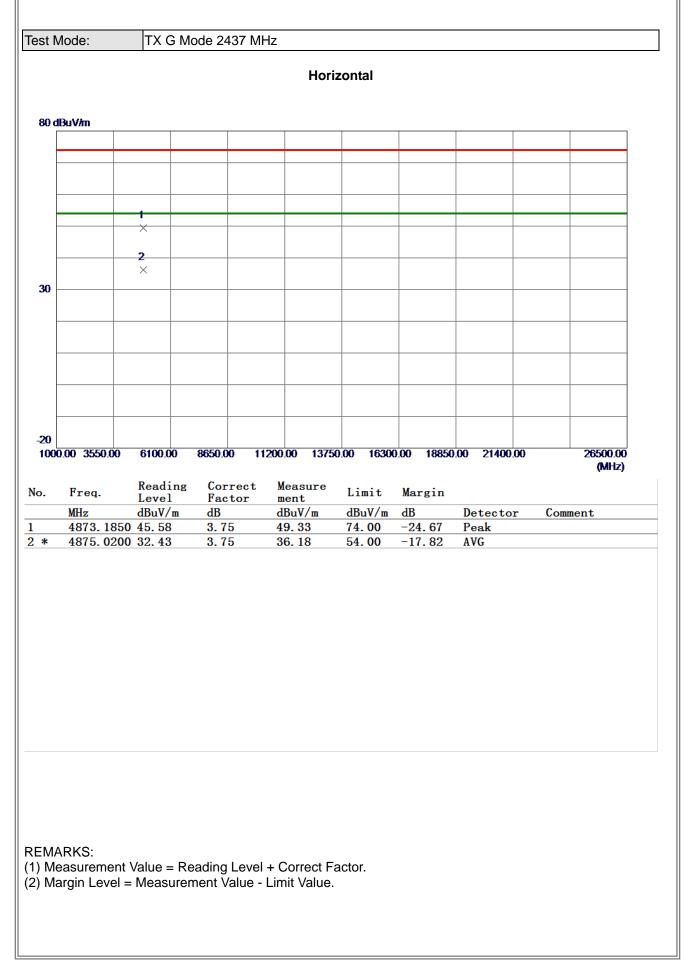




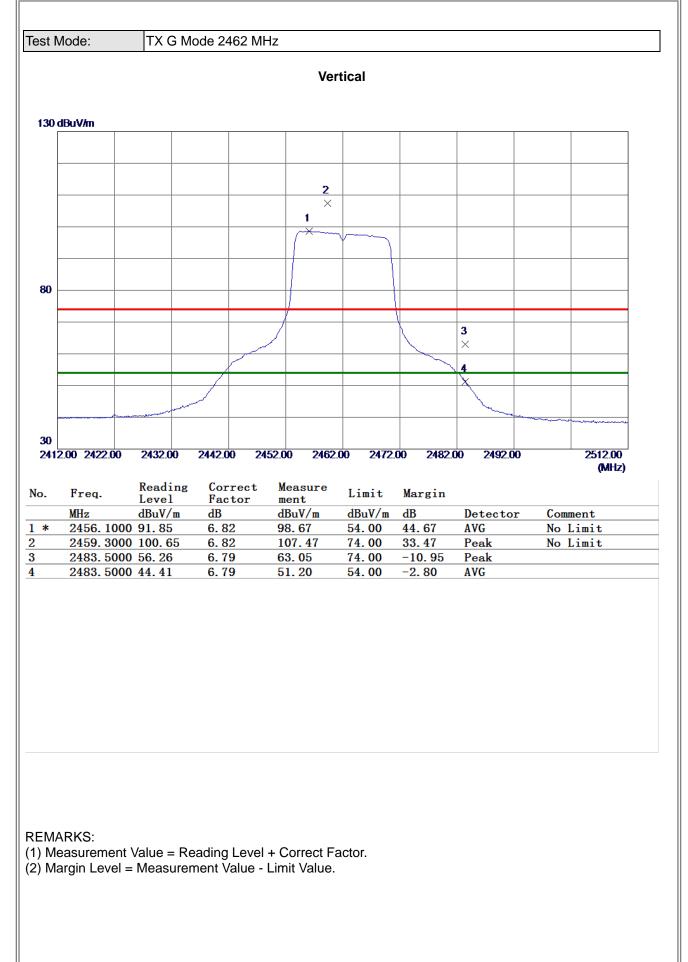




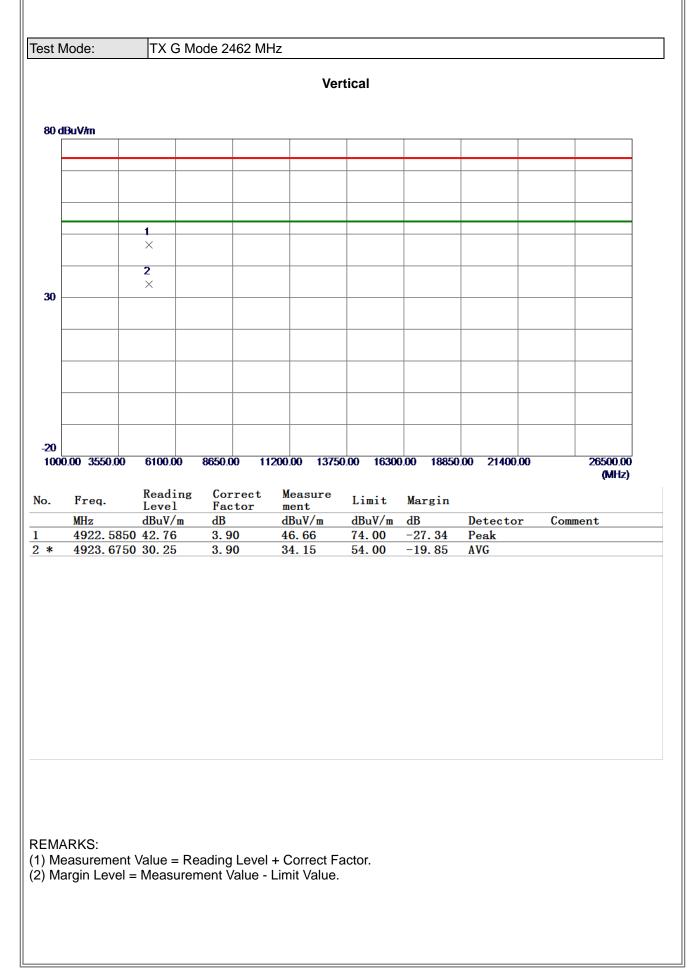




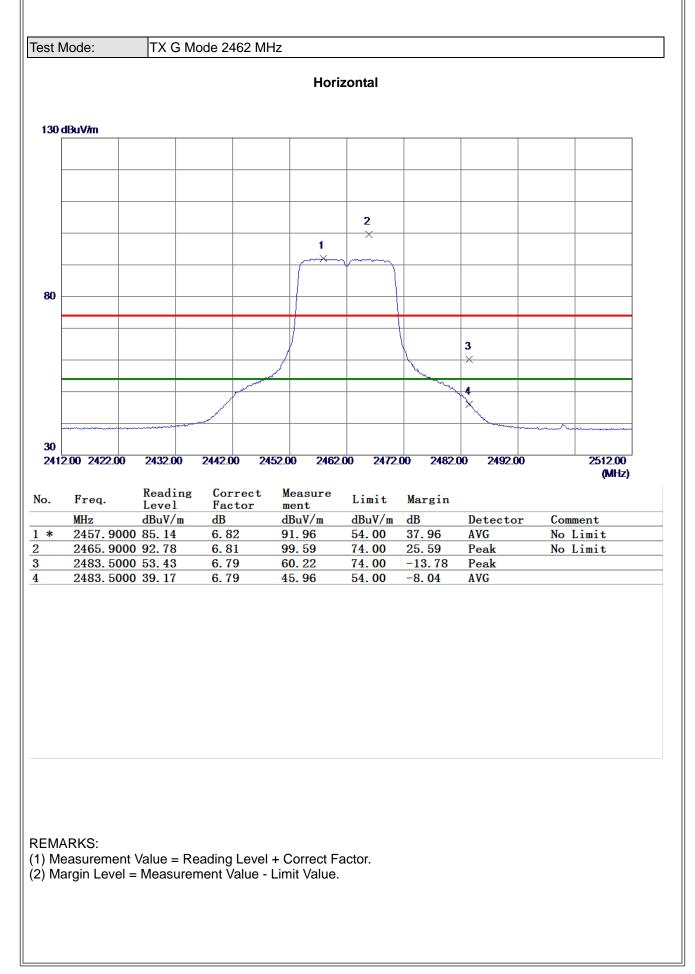




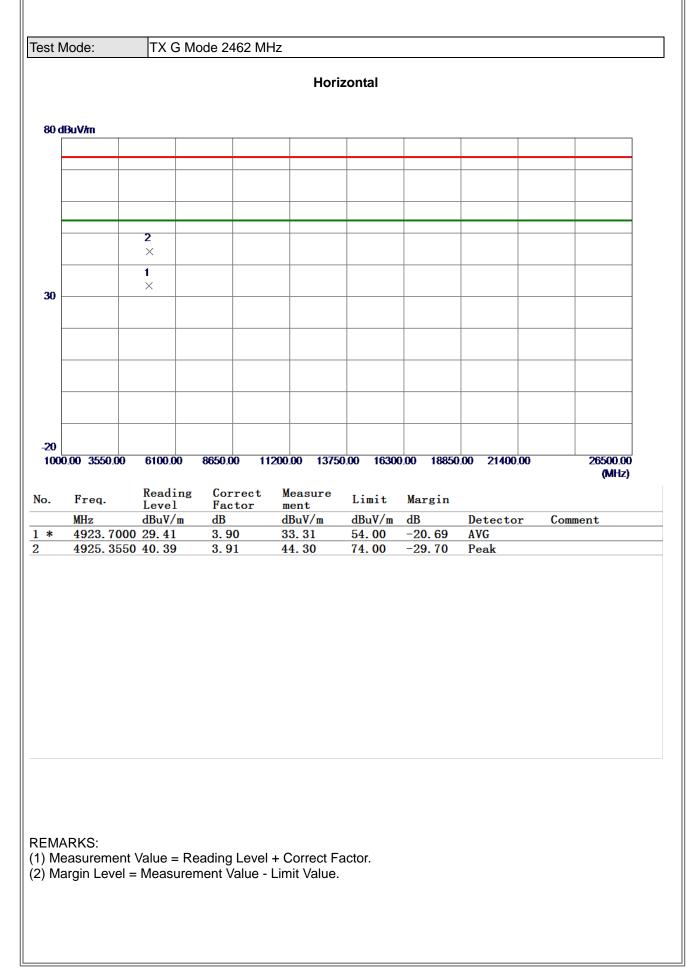




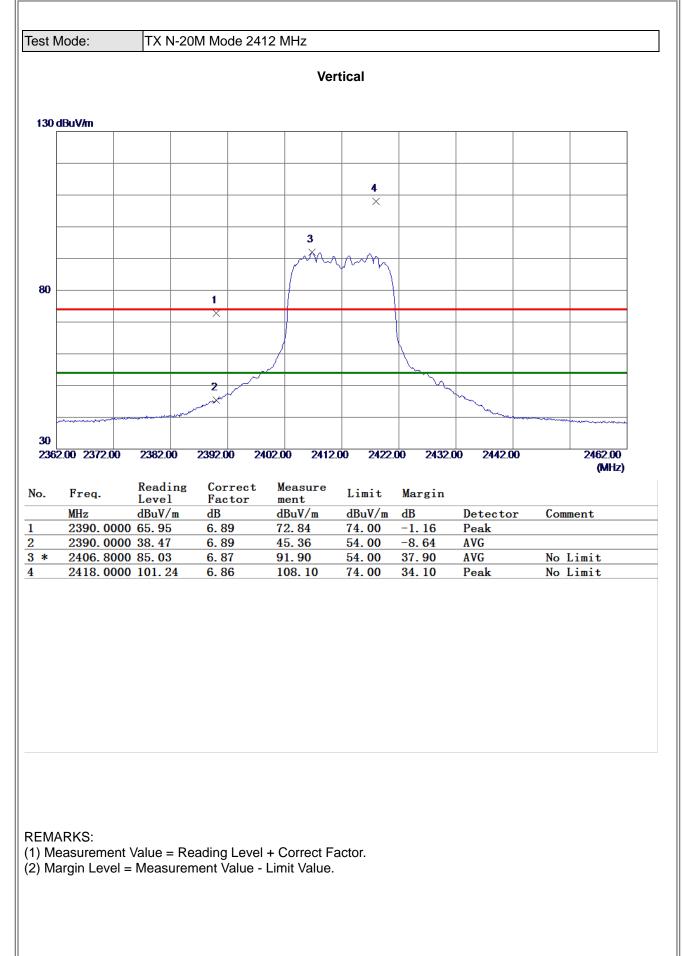




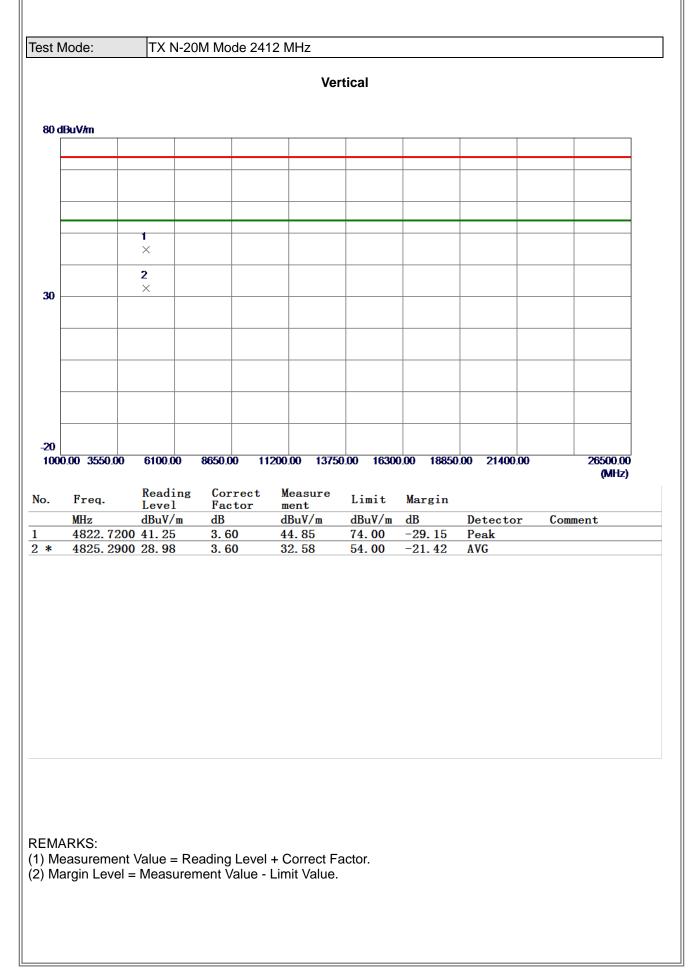




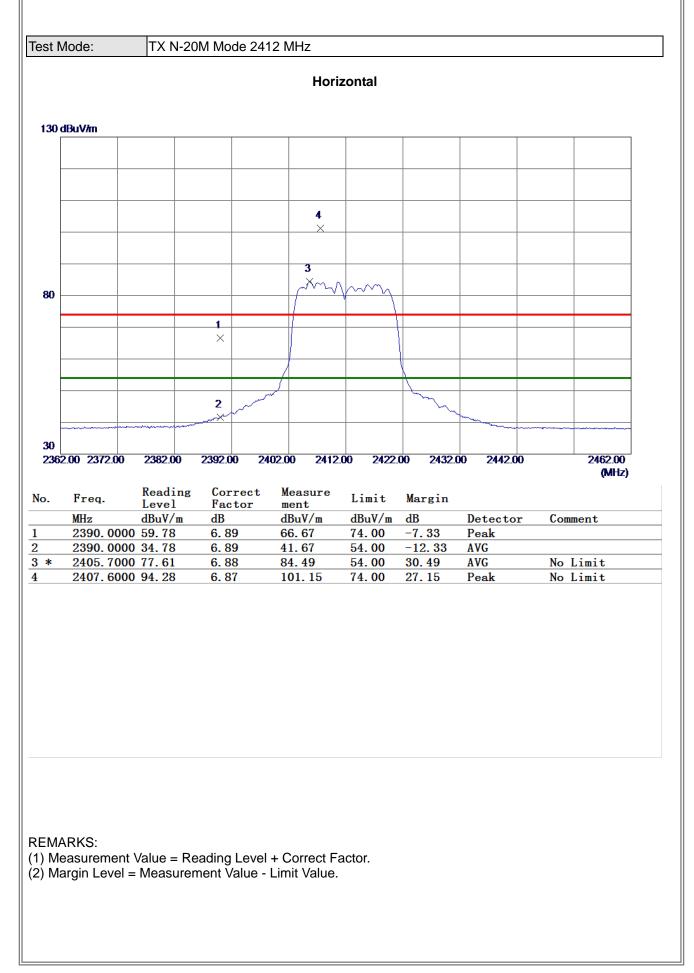




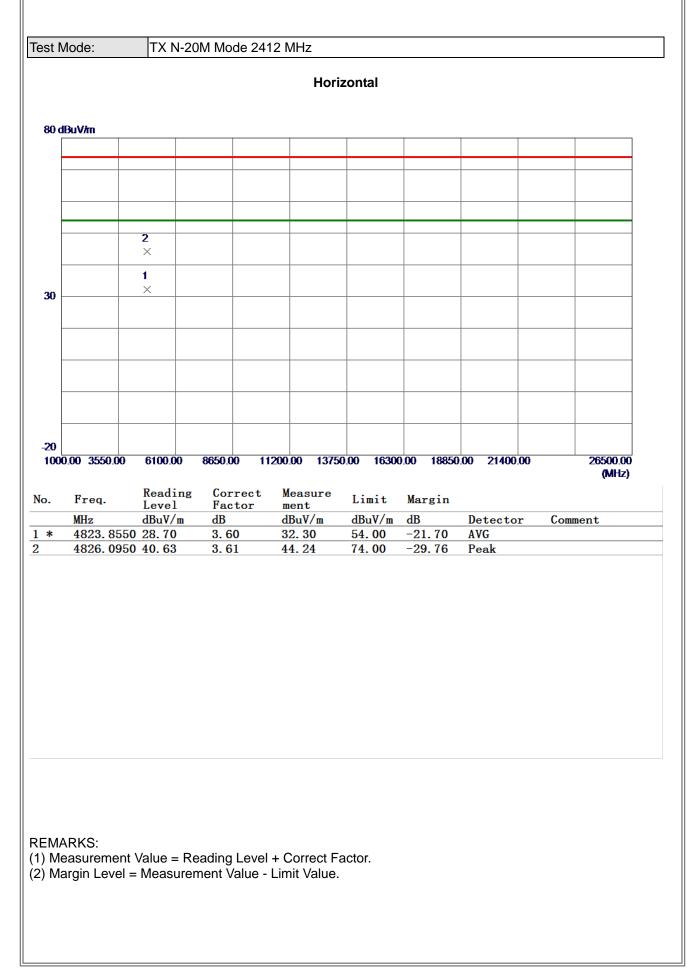




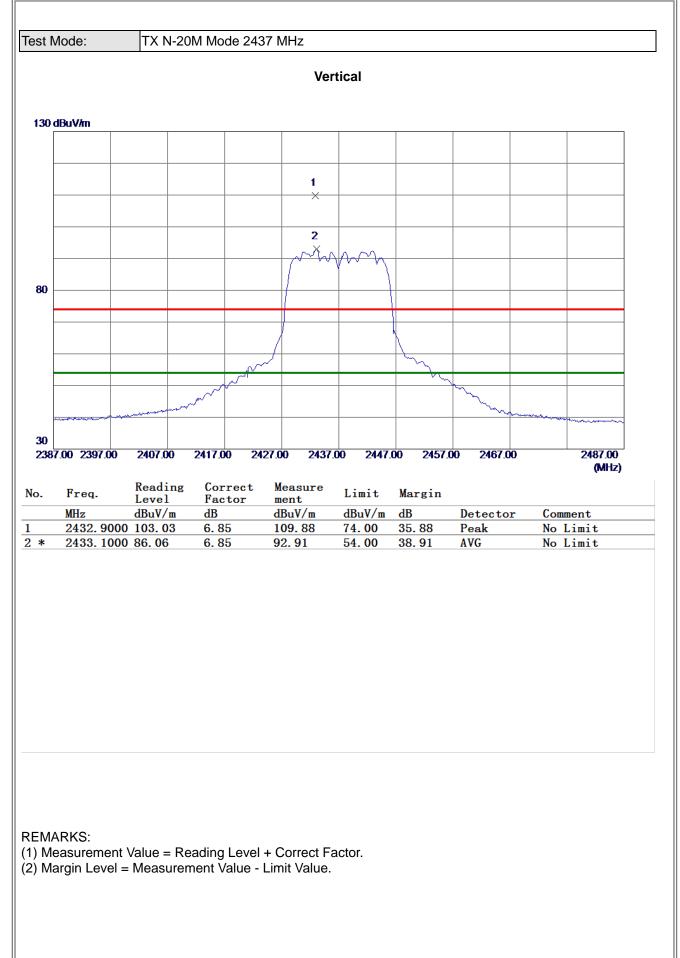








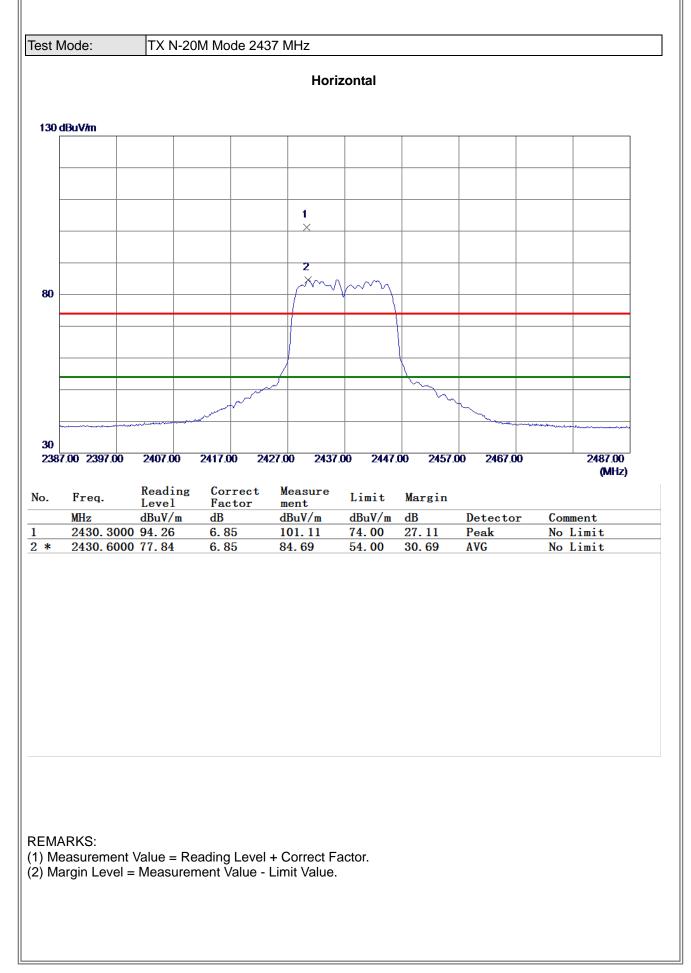




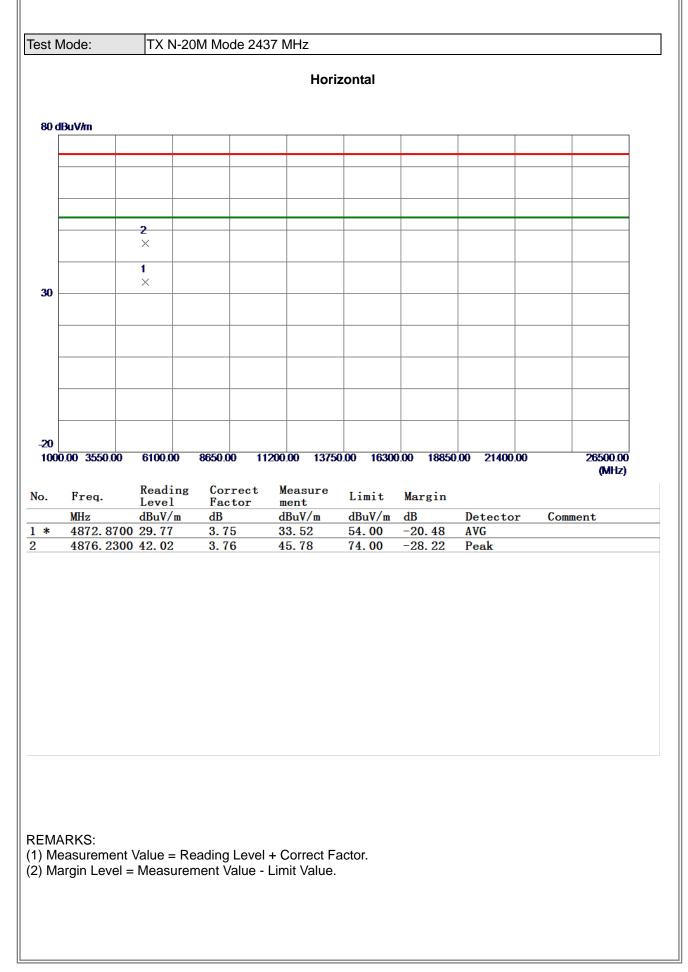




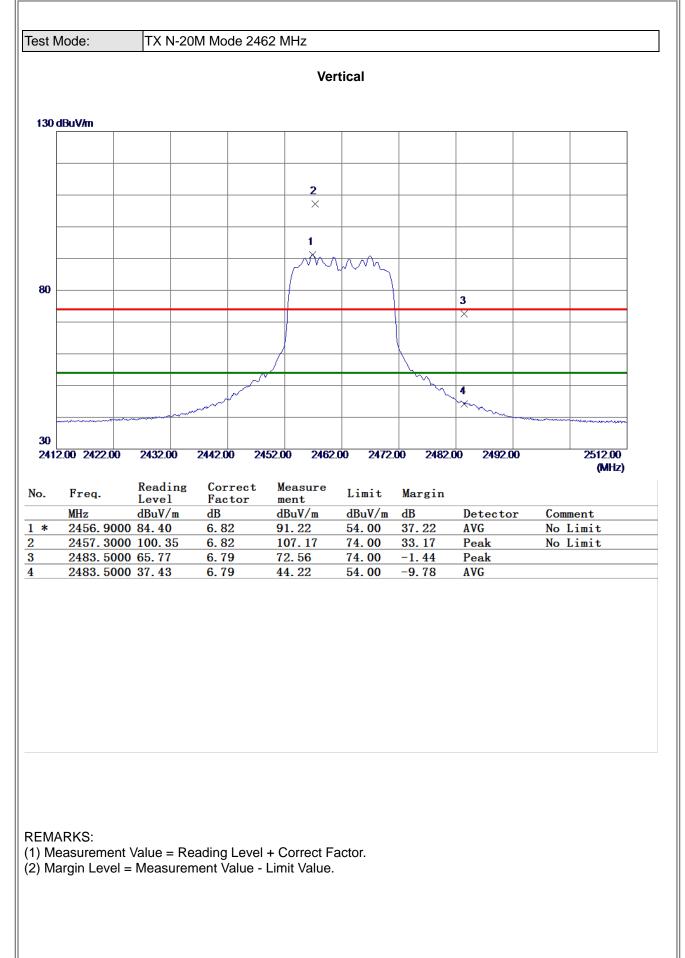




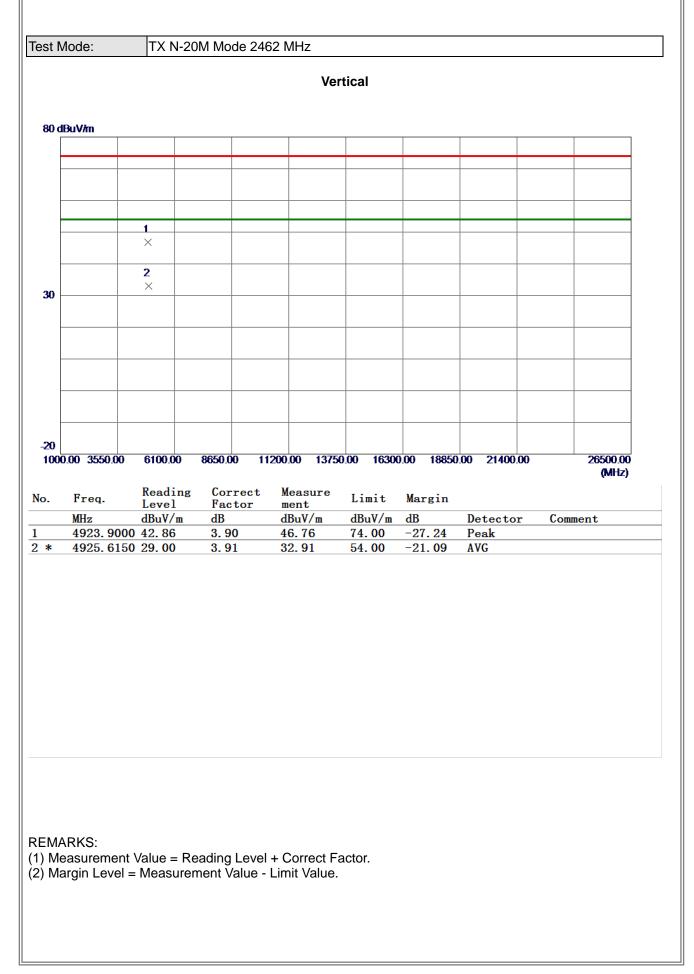




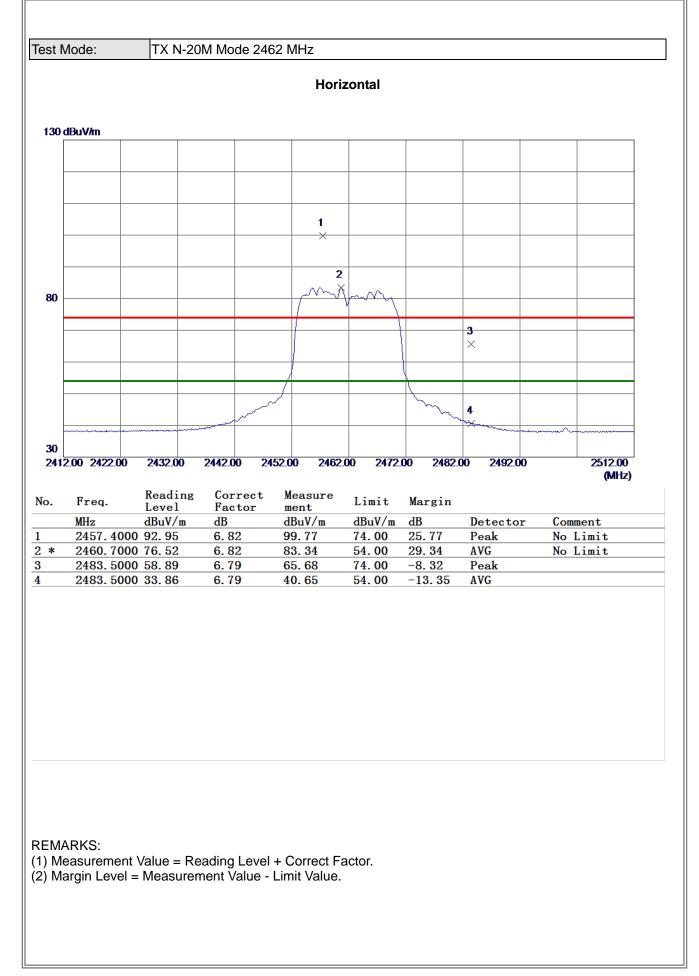




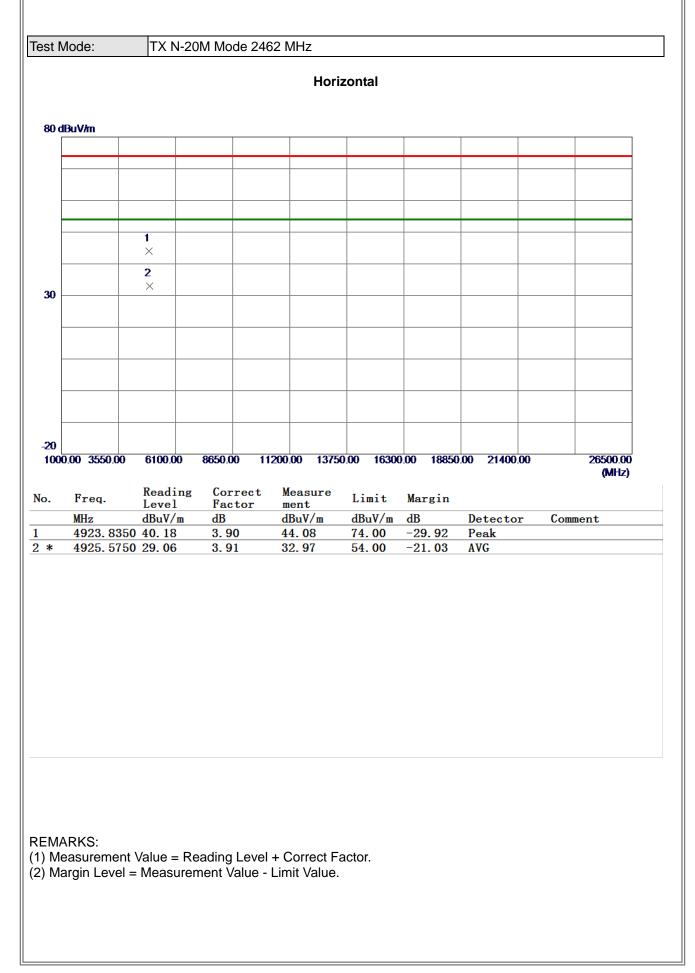




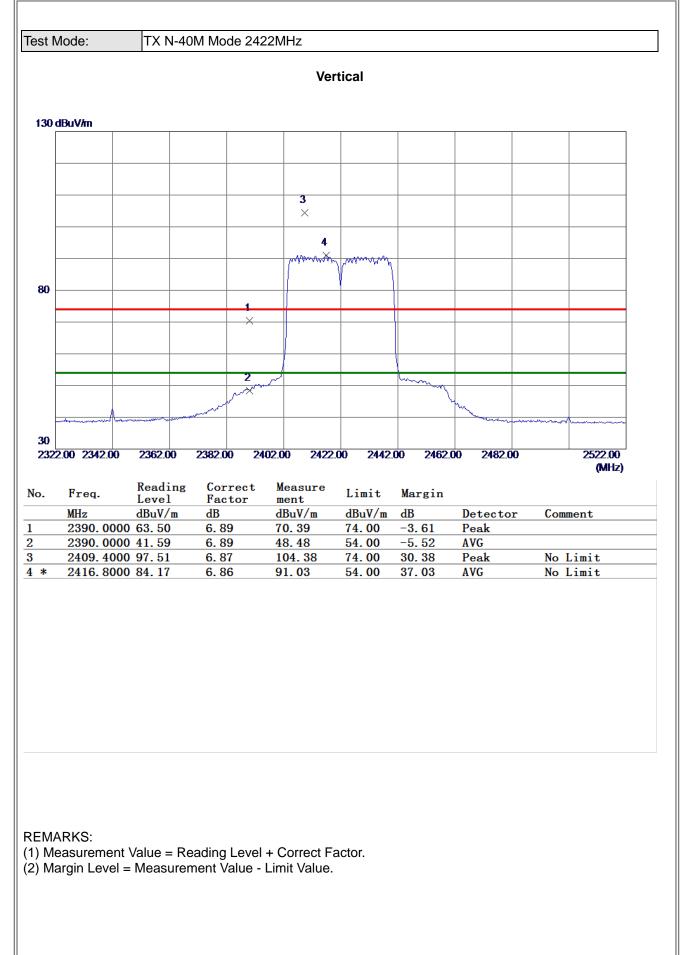




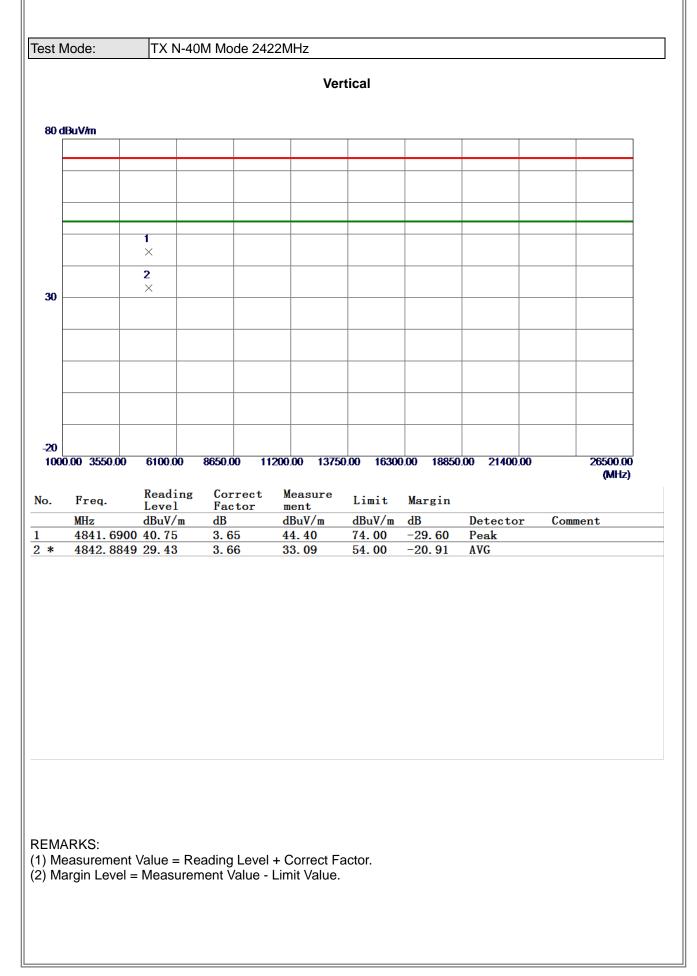




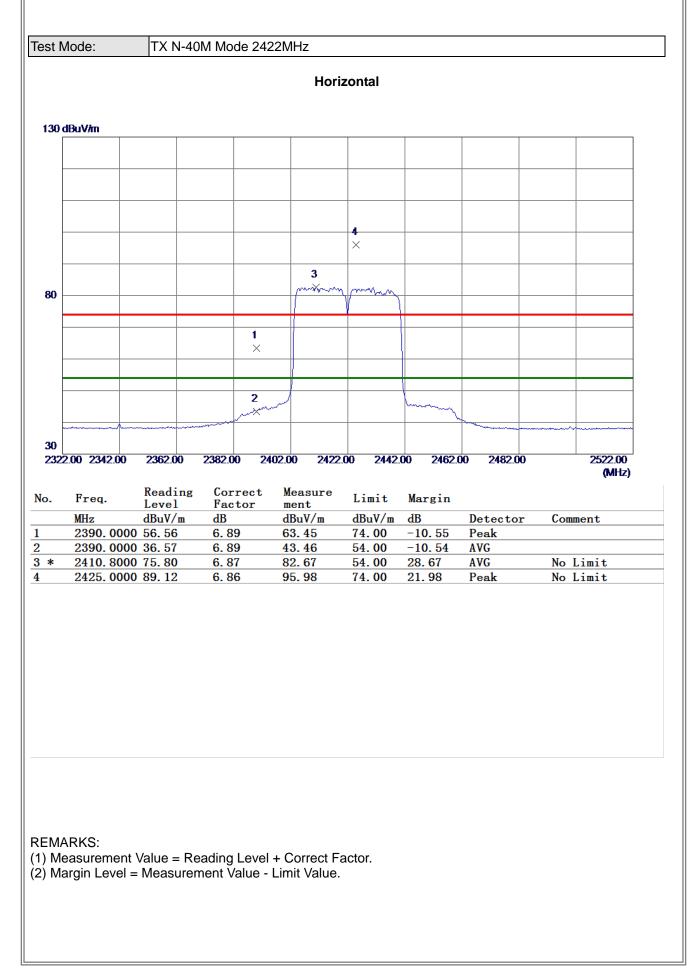




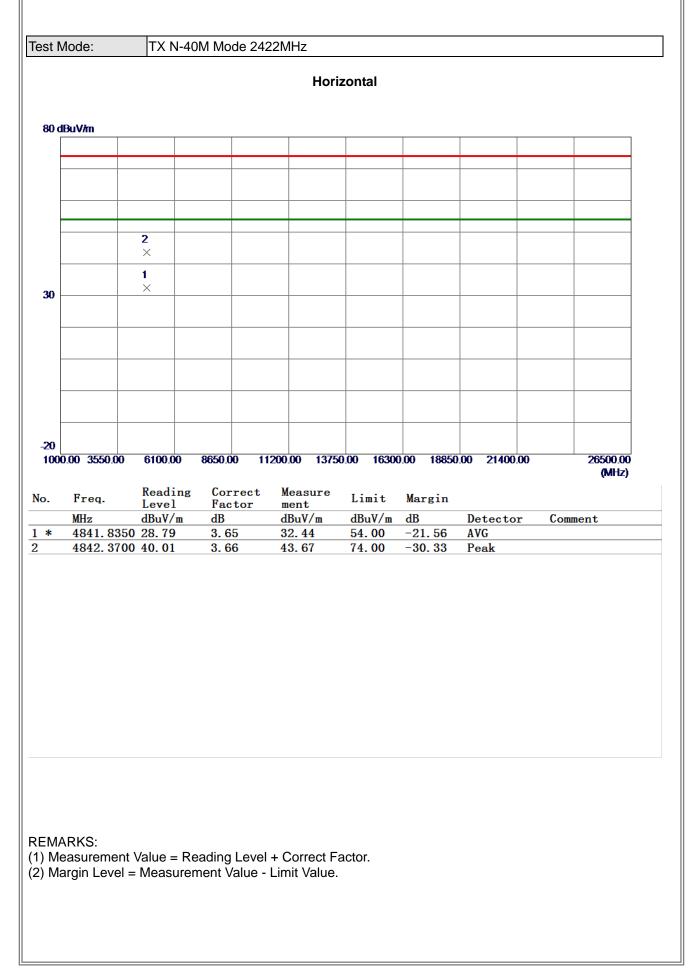




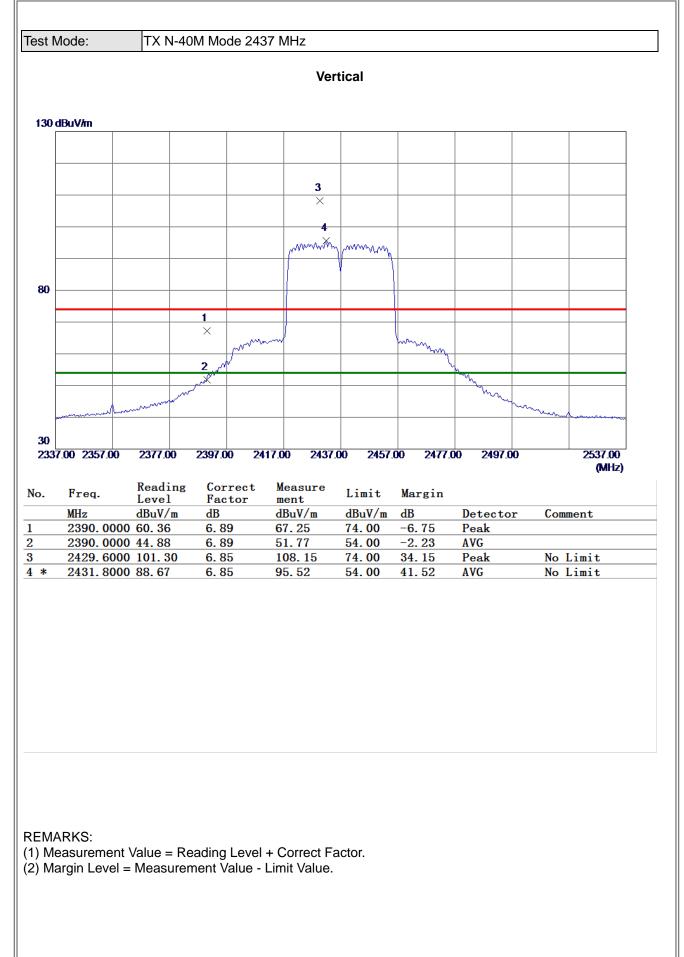




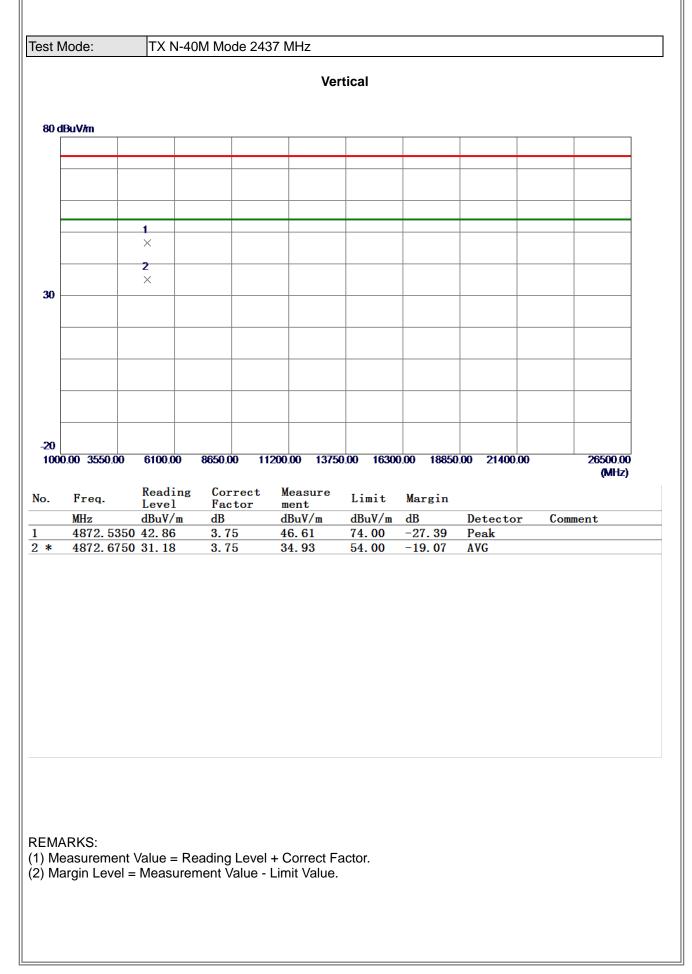




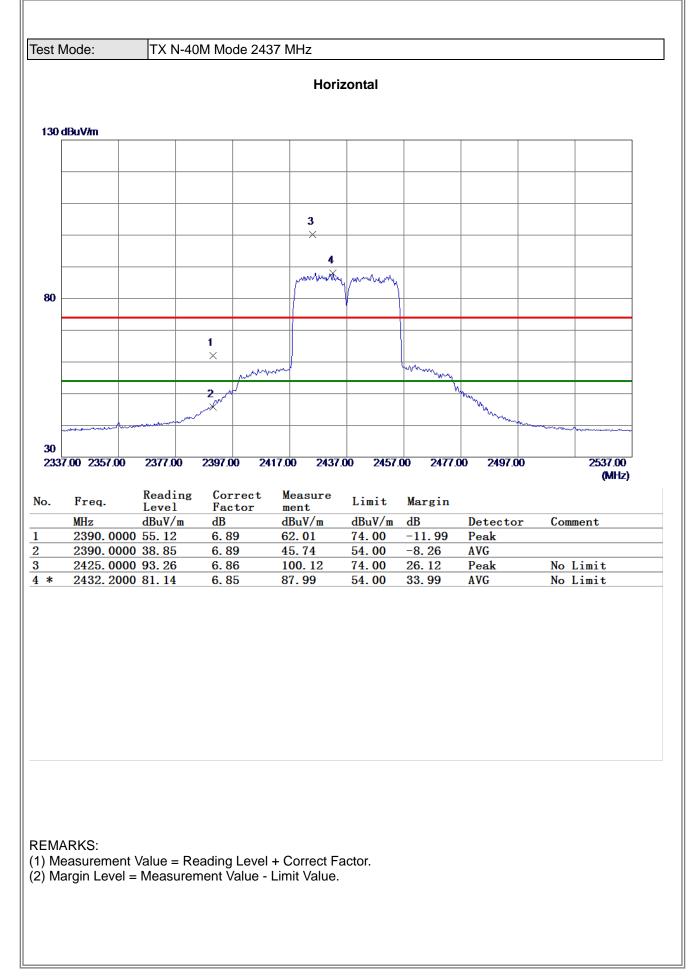








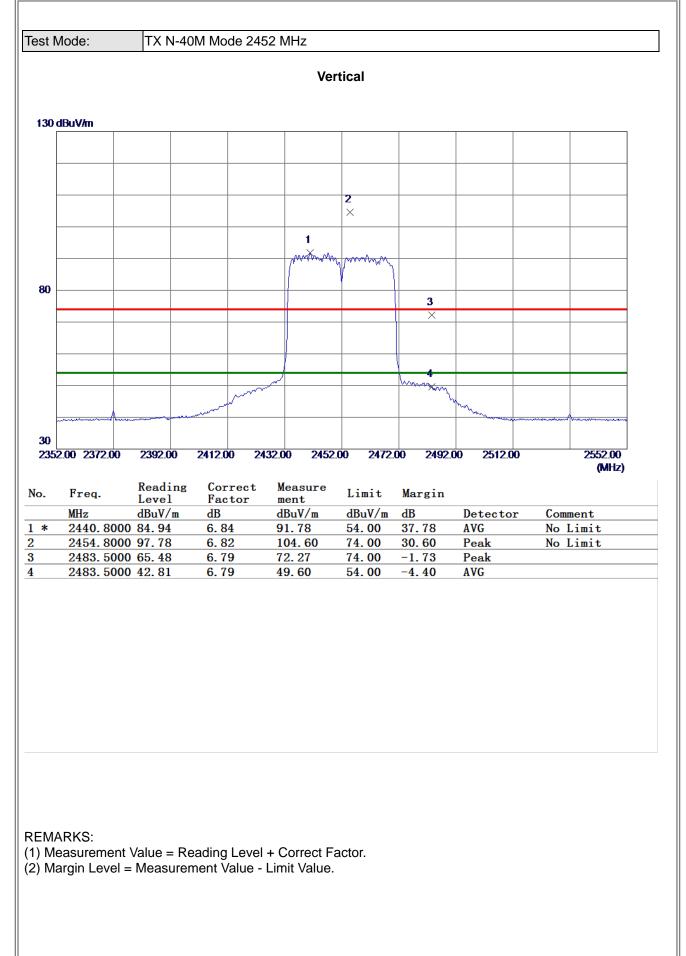




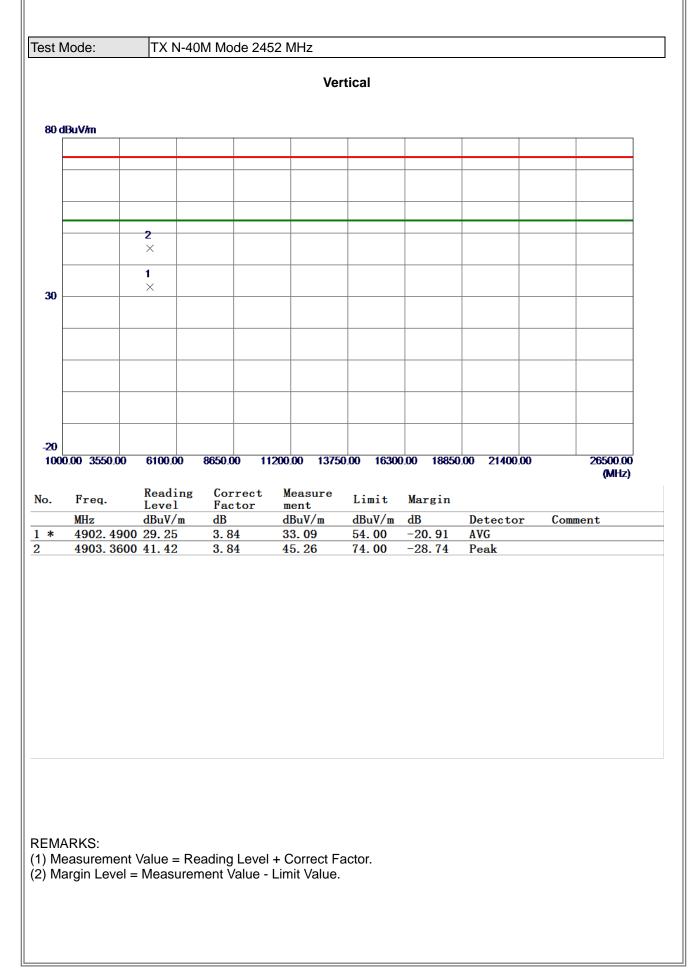




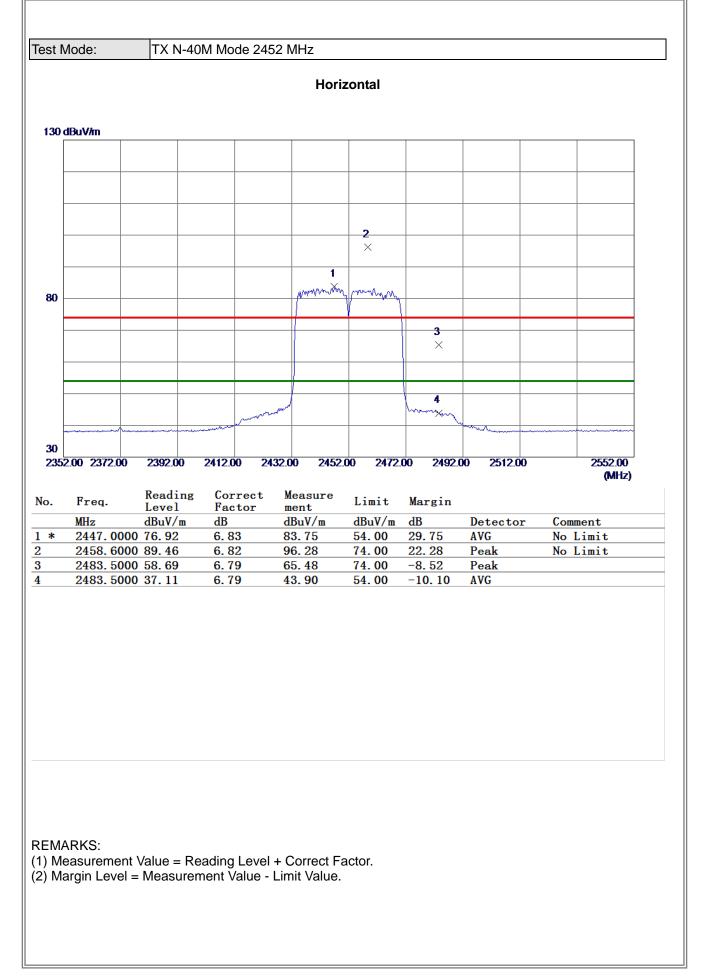




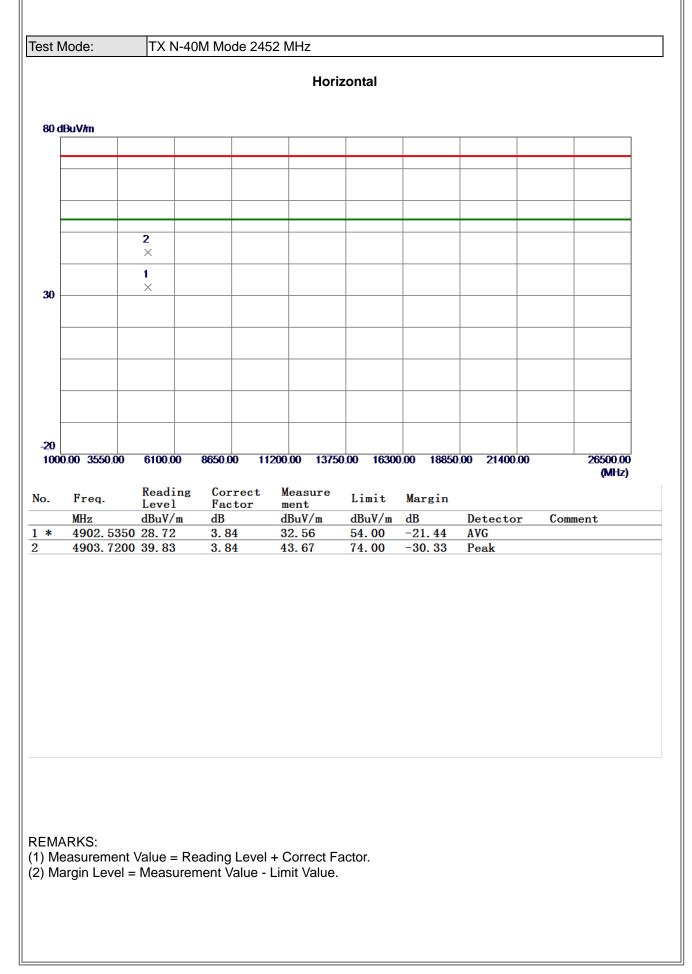




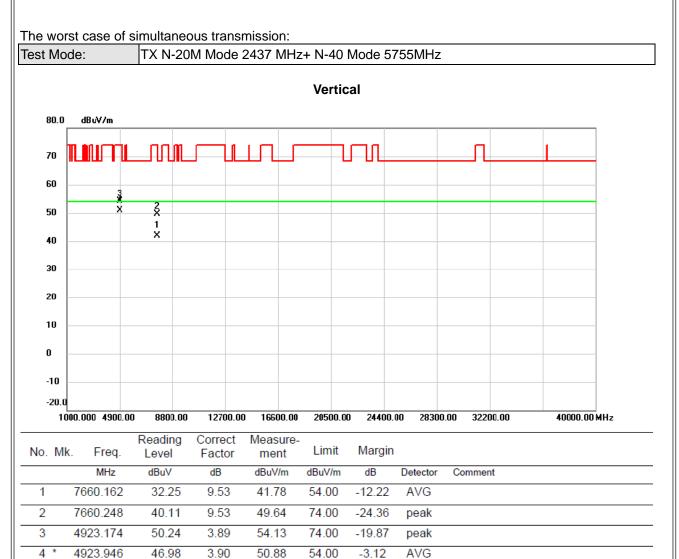












REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.





REMARKS:

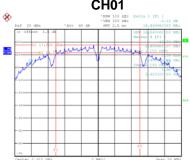
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX E - BANDWIDTH



Test Mode	TX B Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	10.15	500	Complies
06	2437	10.11	500	Complies
11	2462	10.16	500	Complies
	L01	CHOS	C	U11





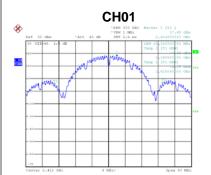


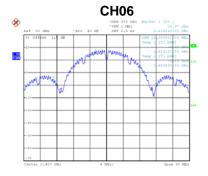
Date: 24.MAR.2020 16:06:11

Date: 24.MAR.2020 16:13:14

Date: 24.MAR.2020 16:14:43

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	26.16	Complies
06	2437	24.88	Complies
11	2462	21.68	Complies







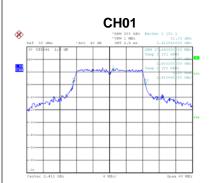
Date: 24.MAR.2020 16:06:19

Date: 24.MAR.2020 16:13:21

Date: 24.MAR.2020 16:14:50

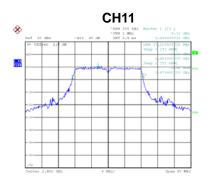


Test Mode	TX G Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.39	500	Complies
06	2437	16.38	500	Complies
11	2462	16.38	500	Complies
2x f 35 dbs 36 db db	(M7 2.5 M) 15.2307/2010 (M) (M7 2.5 M) (M7 2.6 M) (M7 2.5 M) (M7 2.6 M) (M7 2.5 M) (M7 2.6 M) (M7 2.6 M) (M7 2.6 M)	10 Offert 1. dB CEW 1	1.1113 ************************************	Settem 1 1.1.1 2.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1
Channel	Frequency (MHz)	99 % Emissio	n Bandwidth (MHz)	Result
01	2412		17.44	Complies



2462





Complies

Complies

Date: 24.MAR.2020 16:16:33

06

11

Date: 24.MAR.2020 16:10:03

Date: 24.MAR.2020 16:31:55

17.52



	1			
est Mode	TX N-20M Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.60	500	Complies
06	2437	17.66	500	Complies
11	2462	17.59	500	Complies
С	H01	CH06		CH11
Perf 31 dBs Abs 43 dB 10 672 1 00 1 11 52 6.35 00 1 00 11 52 6.35 00 00 00 00 12 6.35 00		••••••••••••••••••••••••••••••••••••	1: 01: 0 0: 0	************************************
Channel	Frequency (MHz)	99 % Emissio	n Bandwidth (MHz)	Result
01	2412		18.00	Complies
06	2437		18.00	Complies
11	2462		18.08	Complies
	H01	CHO6		CH11



Test Mode	TX N-40M Mode			
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	35.84	500	Complies
06	2437	35.83	500	Complies
09	2452	35.52	500	Complies
A .	2017 5 mm 21. 01000000 100 101 0100000 100 101 0100000 100 101 010000 100 101 01000 100 101 0000 10000 100 101 0000 10000 100 101 0000 10000 10000 10000000000			************************************
Channel	Frequency (MHz)	99 % Emissio	n Bandwidth (MHz)	Result
03	2422		36.32	Complies
06	2437		36.32	Complies
09	2452		36.32	Complies
· 🐼 ·	247 2.5 ma COM 34 2.2 0000 GBz COM 34 220000 HBz Temp 1 (7.5 000) Temp 2 3 0000 HBz Temp 2 3 0000 HBz Temp 3 0000 HBZ	CHO6 *********************************		HO9 11 12 12 12 12 12 12 12 12 12



APPENDIX F - MAXIMUM OUTPUT POWER



To at MAR da	TYPM	NC	on-Beamforming		
Test Mode	TX B Mode				
	Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result
	01	2412	26.19	1.0000	Complies
	06	2437	25.83	1.0000	Complies
	11	2462	25.05	1.0000	Complies
Test Mode	TX G Mode	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result
	01	2412	28.81	1.0000	Complies
	00	2437	29.03	1.0000	Complies
	06	2107	29.03	1.0000	Complies



2462

Complies

Test Mode	TX N-20M M	lode_Ant. 1				
	Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result	
	01	2412	25.02	1.0000	Complies	
	06	2437	26.78	1.0000	Complies	
	11	2462	24.72	1.0000	Complies	
Test Mode	TX N-20M N	lode_Ant. 2				
	Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result	
	01	2412	24.94	1.0000	Complies	
	06	2437	27.15	1.0000	Complies	
	11	2462	24.22	1.0000	Complies	
	11	2462	_	1.0000	-	
Test Mode	11 TX N-20M M	-	_	1.0000	-	
Test Mode	TX N-20M N	lode_Total	24.22		Complies	
Test Mode Channel		lode_Total Peak Out	24.22	1.0000 Max. Limit (dBm)	-	Result
	TX N-20M M	lode_Total Peak Out (dE	24.22 put Power	Max. Limit	Complies Max. Limit	Result Complies

27.49

30.00



	Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result
	03	2422	23.47	1.0000	Complies
	06	2437	26.32	1.0000	Complies
	09	2452	22.96	1.0000	Complies
		Freniency			
				Max. Limit	
	Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	Result
	Channel 03	• •			Result Complies
		(MHz)	Power (dBm)	(W)	
	03	(MHz) 2422	Power (dBm) 23.01	(W) 1.0000	Complies
	03 06	(MHz) 2422 2437	Power (dBm) 23.01 26.49	(W) 1.0000 1.0000	Complies Complies
lode	03 06	(MHz) 2422 2437 2452 ode_Total	Power (dBm) 23.01 26.49 22.86	(W) 1.0000 1.0000	Complies Complies

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	26.26	30.00	1.0000	Complies
06	2437	29.42	30.00	1.0000	Complies
09	2452	25.92	30.00	1.0000	Complies



2462

Complies

			Beamforming			
Test Mode	TX N-20M M	lode_Ant. 1	Deannorming			
			-			
	Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result	
	01	2412	23.22	1.0000	Complies	
	06	2437	23.52	1.0000	Complies	
	11	2462	23.28	1.0000	Complies	
Test Mode	TX N-20M M	lode_Ant. 2				
1000 111000						
	Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result	
		Frequency			Result Complies	
	Channel	Frequency (MHz)	Power (dBm)	(W)		
	Channel 01	Frequency (MHz) 2412	Power (dBm) 23.25	(W) 1.0000	Complies	
	Channel 01 06	Frequency (MHz) 2412 2437	Power (dBm) 23.25 23.29	(W) 1.0000 1.0000	Complies Complies	
Test Mode	Channel 01 06	Frequency (MHz) 2412 2437 2462	Power (dBm) 23.25 23.29	(W) 1.0000 1.0000	Complies Complies	
	Channel 01 06 11 TX N-20M M	Frequency (MHz) 2412 2437 2462 1ode_Total	Power (dBm) 23.25 23.29 23.29	(W) 1.0000 1.0000 1.0000	Complies Complies Complies	
	Channel 01 06 11	Frequency (MHz) 2412 2437 2462 Mode_Total Peak Out	Power (dBm) 23.25 23.29 23.29	(W) 1.0000 1.0000	Complies Complies	Result
Test Mode	Channel 01 06 11 TX N-20M M Frequency	Frequency (MHz) 2412 2437 2462 Mode_Total Peak Out (dl	Power (dBm) 23.25 23.29 23.29 tput Power	(W) 1.0000 1.0000 1.0000 Max. Limit	Complies Complies Complies Max. Limit	Result

26.30

29.48



09

2437

2452

Complies

Complies

Τe	est Mode	TX N-40M I	Mode_Ant. 1				
					_		-
		Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result	
		03	2422	23.05	1.0000	Complies	
		06	2437	23.02	1.0000	Complies	
		09	2452	23.12	1.0000	Complies	
		. <u></u>					-
Т	est Mode		Mode_Ant. 2				
Te							
		Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (W)	Result	
		03	2422	23.72	1.0000	Complies	
		06	2437	22.22	1 0 0 0 0		
			2407	23.22	1.0000	Complies	
		09	2452	23.22	1.0000	Complies	
Te	est Mode		2452				
Те	est Mode	09	2452				
Te	est Mode Channel	09	2452 Mode_Total	23.62			Result

26.13

26.39

29.48

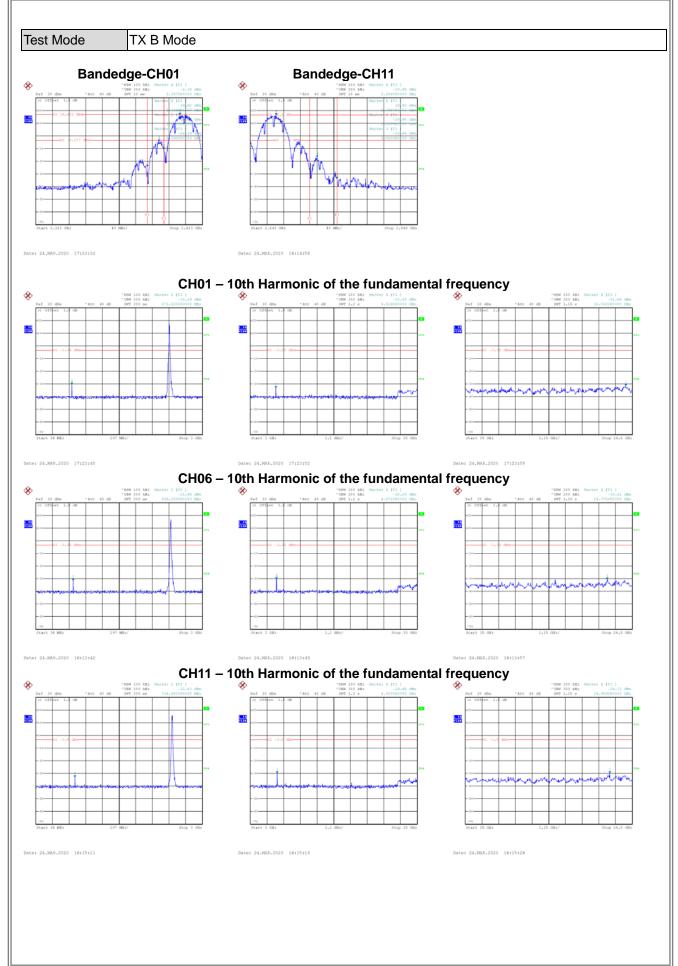
29.48

0.8872

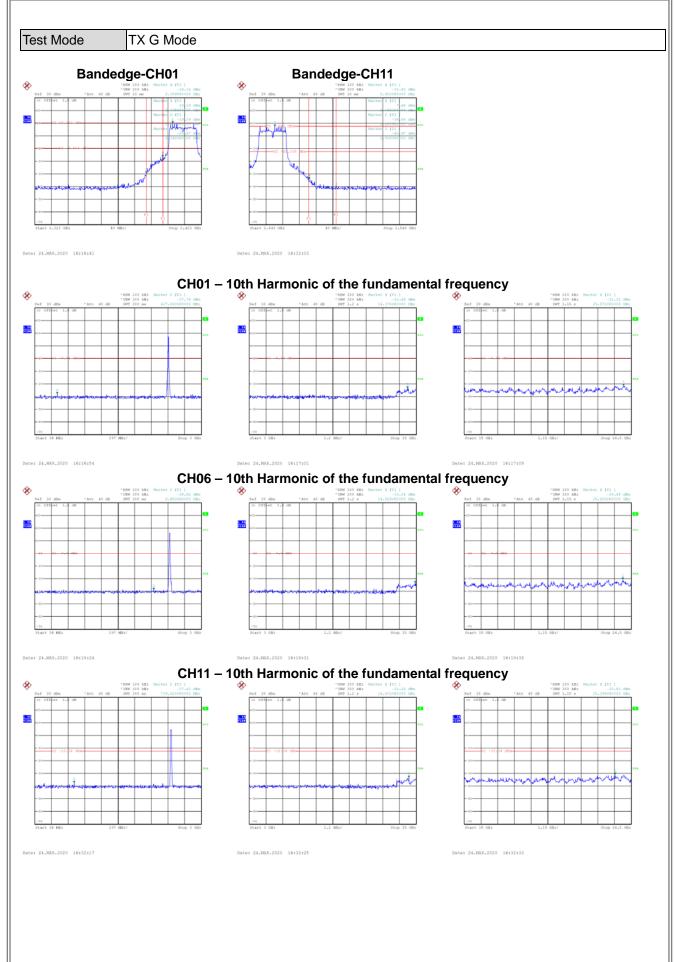


APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

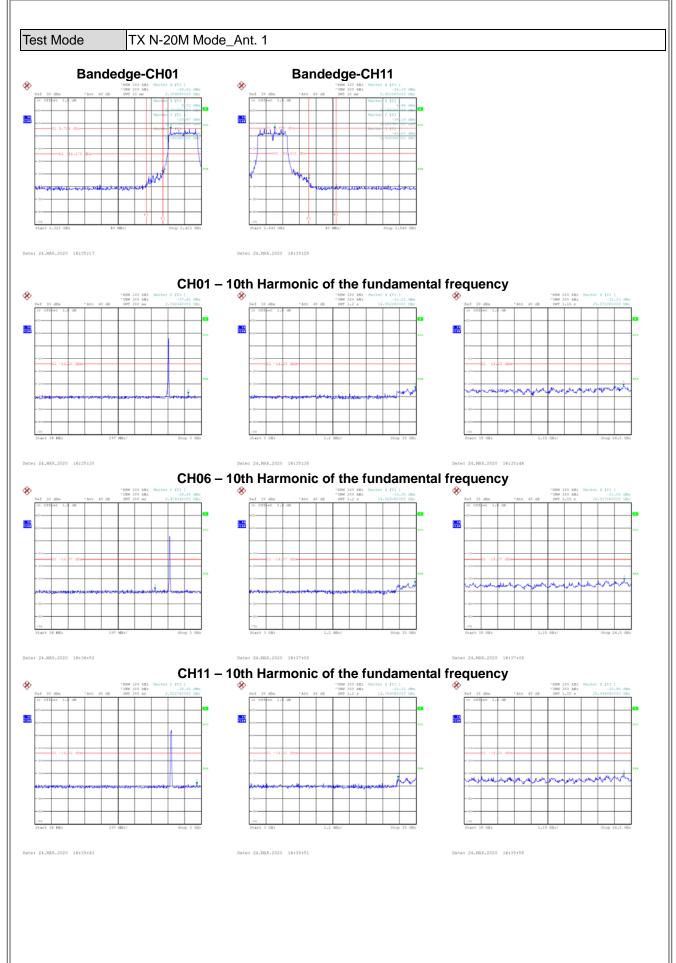




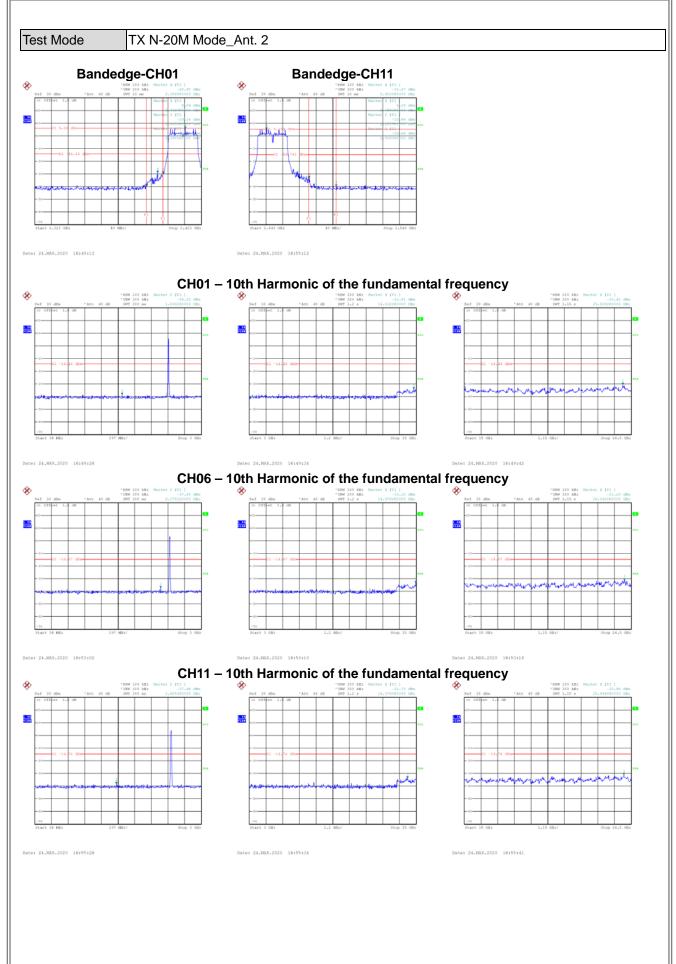




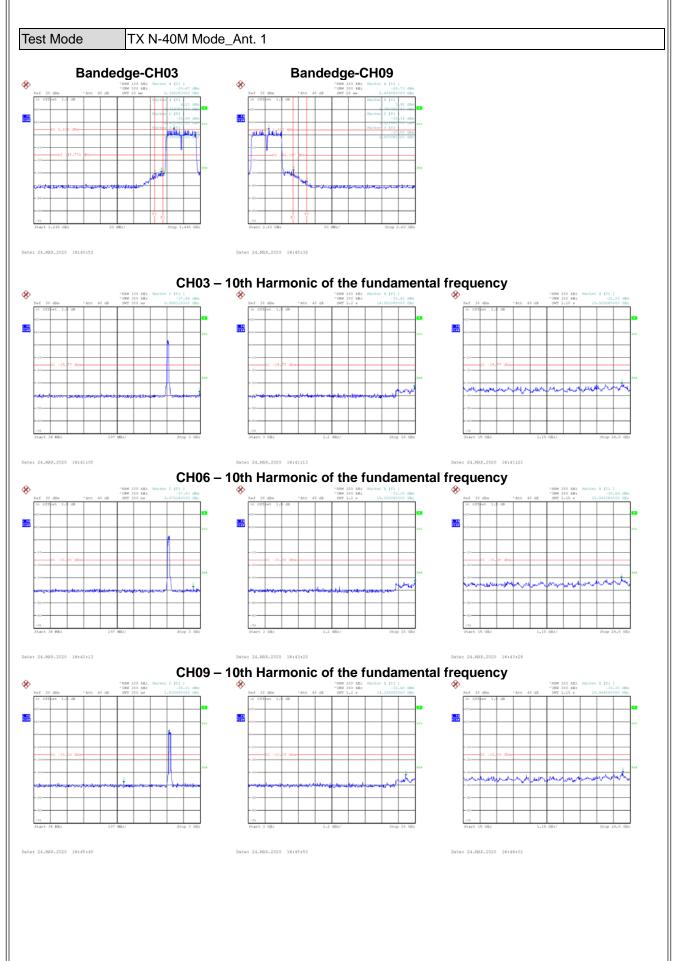




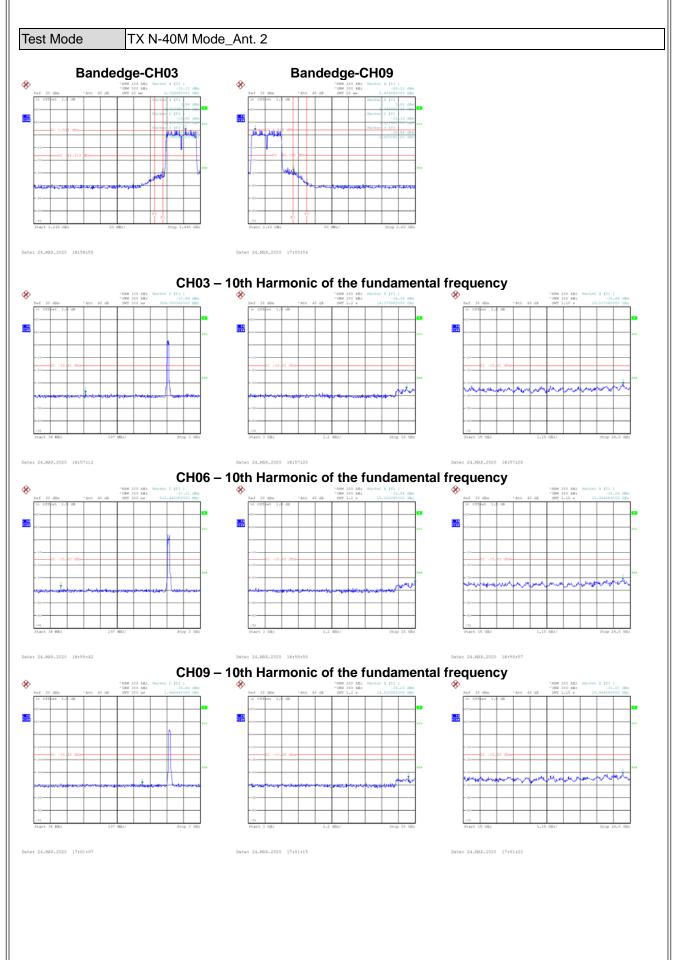










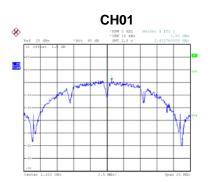




APPENDIX H - POWER SPECTRAL DENSITY



Test Mode	TX B Mode			
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	1.80	8	Complies
06	2437	1.35	8	Complies
11	2462	3.26	8	Complies



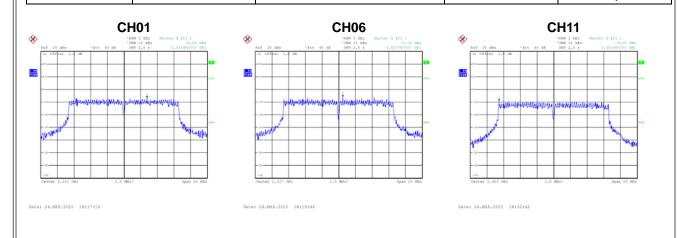




Date: 24.MAR.2020 16:11:51

Test Mode TX G Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.55	8	Complies
06	2437	-5.78	8	Complies
11	2462	-9.05	8	Complies





est Mode	TX N-20M Mode_A	nt. 1		
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.39	8	Complies
06	2437	-9.82	8	Complies
11	2462	-9.98	8	Complies
	H01	Perf 33 dBm *Axs 40 dBV 2.435400100 dBz 10 Offfert 1.40 dBV 2.435400100 dBz 20		H111
Center 2,412 (BE 2,5 %			2.53 Gester 2.442 GBz 2.5 M	817 / Jpen 25 1982
e: 24.MAR.2020 16:35:56	Dat	te: 24.908.2020 16:37:10		Result
est Mode	TX N-20M Mode_A	nt. 2 Power Spectral Density	Date: 24.303.2020 16:49:09 Max. Limit	
est Mode Channel	TX N-20M Mode_A Frequency (MHz)	nt. 2 Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
est Mode Channel 01	TX N-20M Mode_A Frequency (MHz) 2412	nt. 2 Power Spectral Density (dBm/3kHz) -10.05	Max. Limit (dBm/3kHz) 8	Result Complies

Date: 24.MAR.2020 16:49:52

Test Mode TX N-20M Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.70	7.47	Complies
06	2437	-6.73	7.47	Complies
11	2462	-7.21	7.47	Complies

Date: 24.MAR.2020 16:55:51

Date: 24.MAR.2020 16:53:20



st Mode	TX N-40M Mode_A			
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-10.68	8	Complies
06	2437	-11.52	8	Complies
09	2452	-11.35	8	Complies
		CH06	CH09	
ef 32 dBm *Axx 43 dB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		At 2 data At 2	24 f 31 g/m *A5. 41 g/d 10 critical and the state of th	
st Mode	TX N-40M Mode_A	Ant. 2		
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-11.40	8	Complies
06	2437	-10.73	8	Complies
09	2452	-11.61	8	Complies
C	H03	CH06	С	H09
ef 35 clim 0 CEF2ext 1.0 clim 1 CEF2ext 1.0 clim 1				and a second sec
24.39.R.2020 16:57:40		mter 24.3938.2020 16:59:10	Date: 24.308.2020 17:01:35	
st Mode	TX N-40M Mode_T	otal		
	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
Channel	2422	-8.01	7.47	Complies
Channel 03	2422			
	2422	-8.10	7.47	Complies Complies

End of Test Report