



FCC	CRadio Test Report
FC	CC ID: T58WF2180R
This report concerns (check	one): ⊠Original Grant
Equipment : Model Name : Applicant :	1607C233 AC600 Wireless Dual Band USB Adapter WF2180 NETIS SYSTEMS CO., LTD 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.
Date of Test : Issued Date :	Jul. 22, 2016 Jul. 22, 2016 ~ Aug. 29, 2016 Aug. 30, 2016 BTL Inc.
Testing Engineer	: <u>Shawn Xiao</u> (Shawn Xiao)
Technical Manager	: David Mao
Authorized Signator	(David Mao) ry : <u>Seeven h</u> (Steven Lu)
No.3, Jinshagang	I I NC. 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. 8318-3000 FAX: +86-769-8319-6000



Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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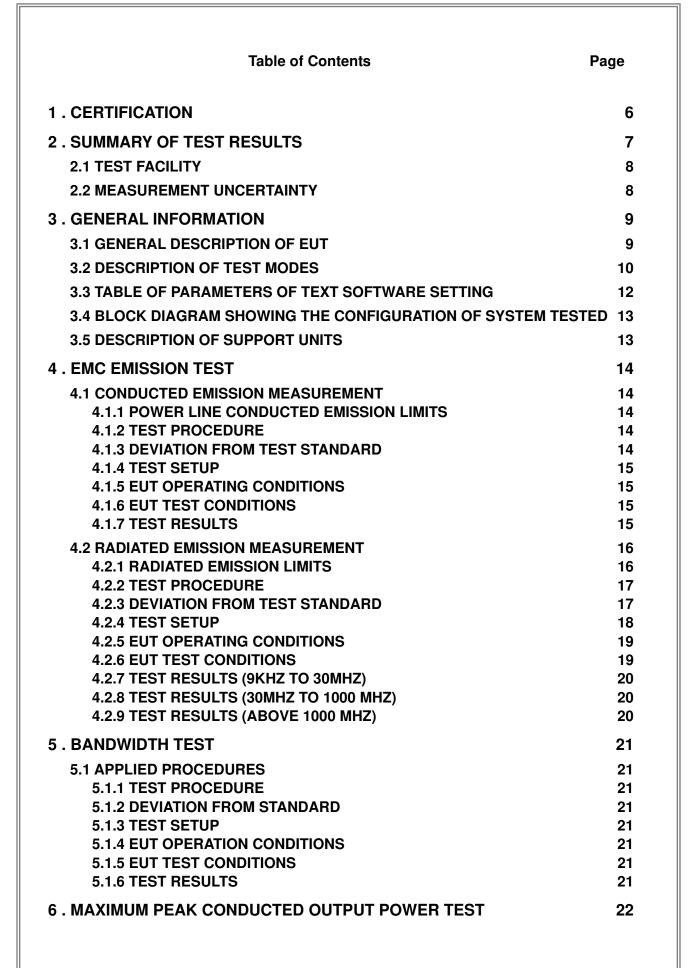
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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

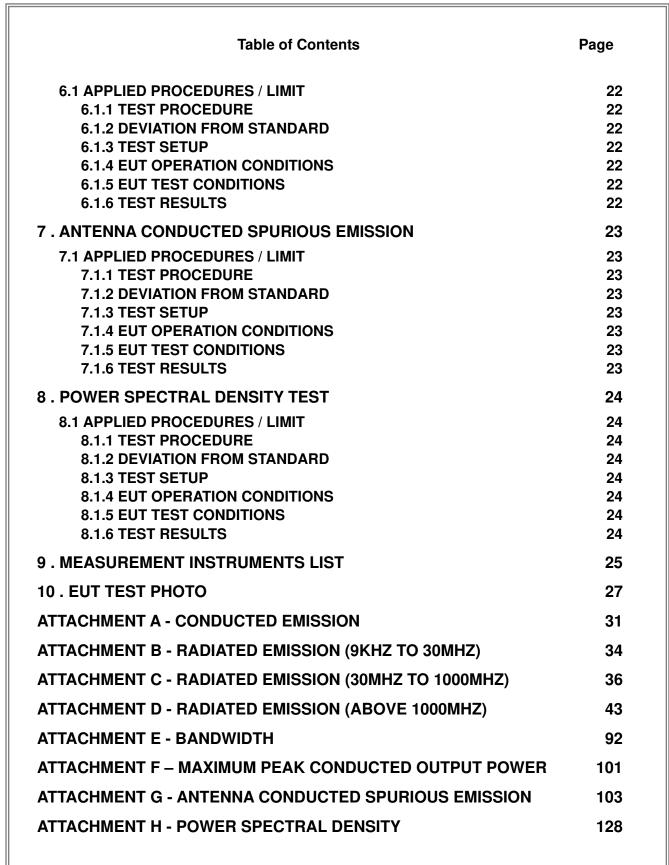
Limitation

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.













REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1607C233	Original Issue.	Aug. 30, 2016





1. CERTIFICATION

Brand Name : Model Name :	WF2180
	NETIS SYSTEMS CO., LTD
	Shenzhen Netcore Industrial Ltd.
Address :	4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.
Factory :	Dongguan City Netcore Network Technology Co.,Ltd.
Address :	No.10-1,Sankeng Road,Qinghutou,Tangxia Town,Dongguan City
Date of Test :	Jul. 22, 2016 ~ Aug. 29, 2016
Test Sample :	Engineering Sample
	FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1607C233) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C

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

NOTE:

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





2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method Measurement Frequency Range		Ant. H / V	U, (dB)
		9KHz~30MHz	V	3.79
		9KHz~30MHz	Н	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H/V V H	3.78
DG-CB03	CISPR	200MHz ~ 1,000MHz		4.10
DG-CB03	USER	200MHz ~ 1,000MHz		4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Н	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Н	4.14

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC600 Wireless Dual Band USB Adapter		
Brand Name	netis		
Model Name	WF2180		
Model Difference	N/A		
	Operation Frequency	2412~2462 MHz	
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM	
Product Description	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: 18.12dBm 802.11g: 23.55dBm 802.11n(20MHz): 22.61dBm 802.11n(40MHz): 21.71dBm	
Power Source	Supplied from PC USB port.		
Power Rating	DC 5V		

Note:

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

2. Channel List:

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

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Internal	N/A	0

3.2 DESCRIPTION OF TEST MODES

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

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

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

	For Conducted Test
Final Test Mode	Description
Mode 5	Normal Link

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	

For Band Edge 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	



6dB Spectrum Bandwidth		
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	

Maximum Conducted Output Power		
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	

Power Spectral Density		
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 (6.5Mbps)
 - 802.11n HT40 mode : BPSK (13.5Mbps)
 - 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.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

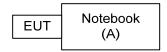
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software version		MPTOOL	
Frequency (MHz)	2412	2437	2462
802.11b	36	35	34
802.11g	45	45	44
802.11n (20MHz)	43	43	43
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	42	45	39





3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
А	Notebook	Lenovo	EB22953787	DOC	E46L

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)

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

The following table is the setting of the receiver

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

4.1.2 TEST PROCEDURE

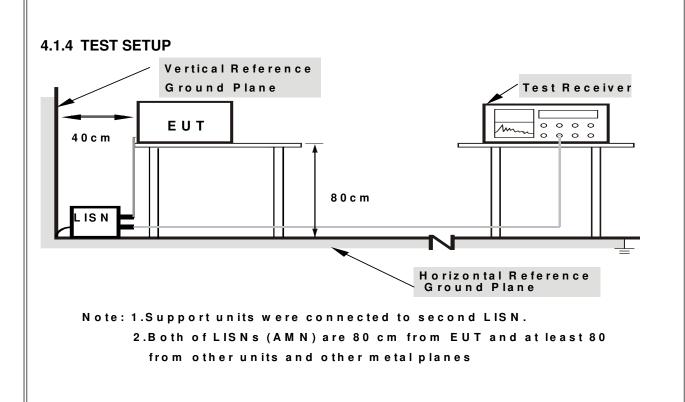
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation







4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

Frequency	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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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



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

4.2.2 TEST PROCEDURE

- 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 1GHz)
- 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 1GHz)
- 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 1GHz.
- 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 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

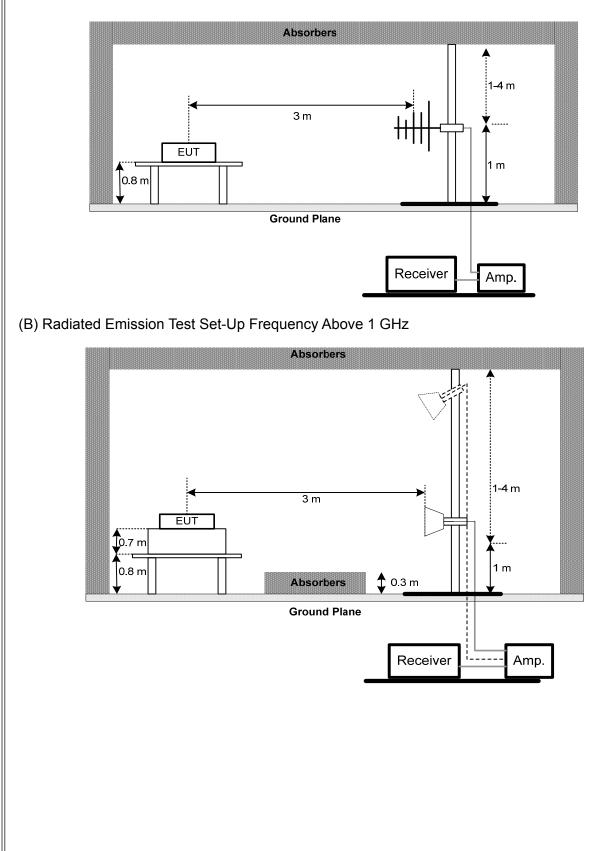
4.2.3 DEVIATION FROM TEST STANDARD

No deviation



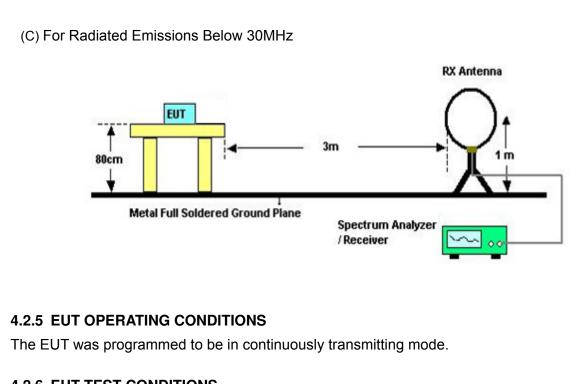
4.2.4 TEST SETUP

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









4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V



4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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



5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

5.1.6 TEST RESULTS

Please refer to the Attachment E.



6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r05.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

6.1.6 TEST RESULTS

Please refer to the Attachment F.



7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

7.1.6 TEST RESULTS

Please refer to the Attachment G.



8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017		
2	LISN	R&S	ENV216	101447	Mar. 27, 2017		
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 10, 2017		
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017		
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A		

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017		
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016		
3	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016		
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 26, 2017		
5	Control	СТ	SC100	N/A	N/A		
6	Position Control	MF	MF-7802	MF78020841 6	N/A		
7	Antenna	ETS	3115	00075789	Mar. 27, 2017		
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016		
9	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016		
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz- 26.5GHz)	C-68	Jun. 26, 2017		
11	Controller	СТ	SC100	N/A	N/A		
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017		
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017		
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016		
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		





6dB Bandwidth Measurement						
ltem	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until					
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017	

Peak Output Power Measurement

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Oct. 26, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Oct. 26, 2016

	Antenna Conducted Spurious Emission Measurement					
ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017	

	Power Spectral Density Measurement					
ltem	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until					
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017	

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

All calibration period of equipment list is one year.





10. EUT TEST PHOTO

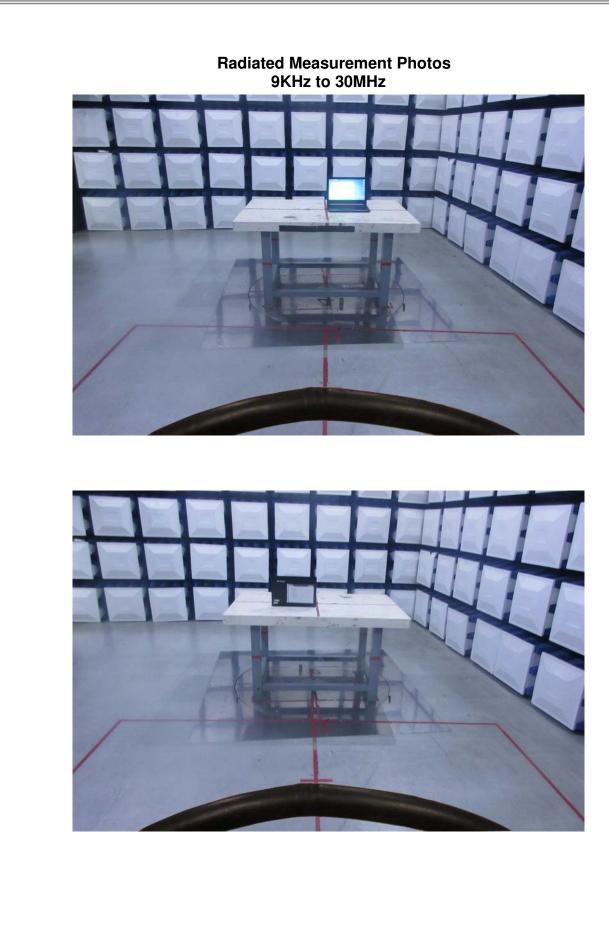
Conducted Measurement Photos





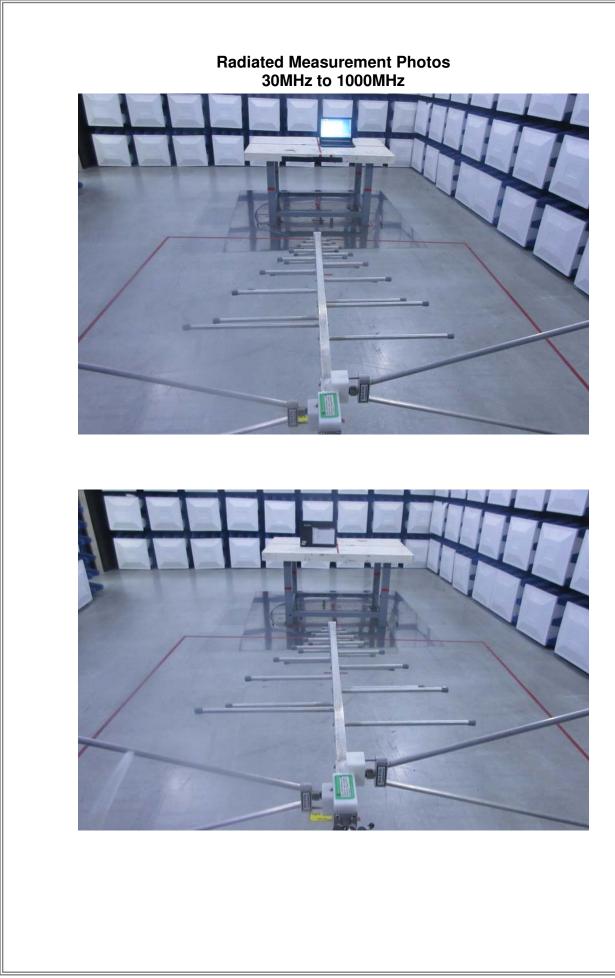






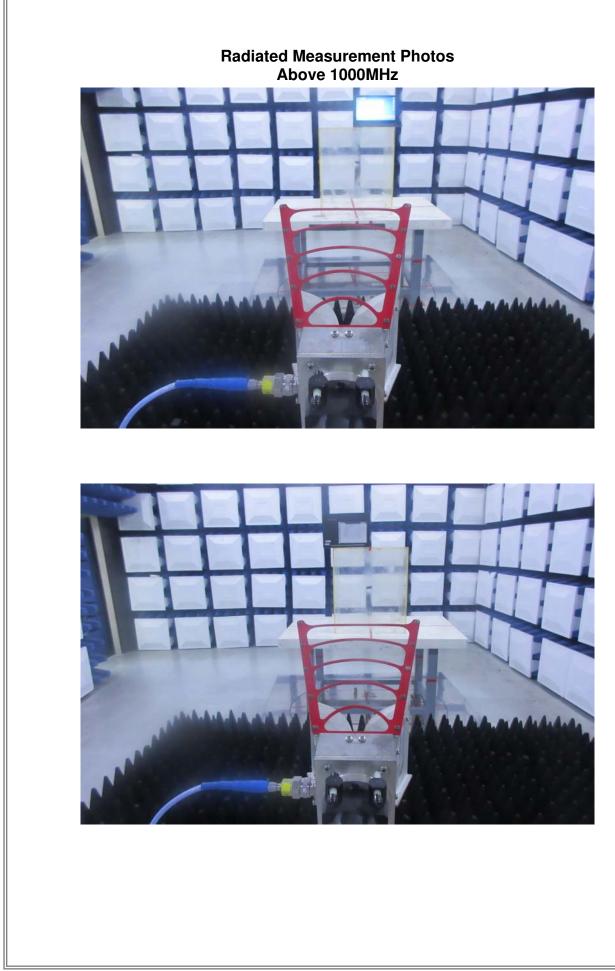














ATTACHMENT A - CONDUCTED EMISSION

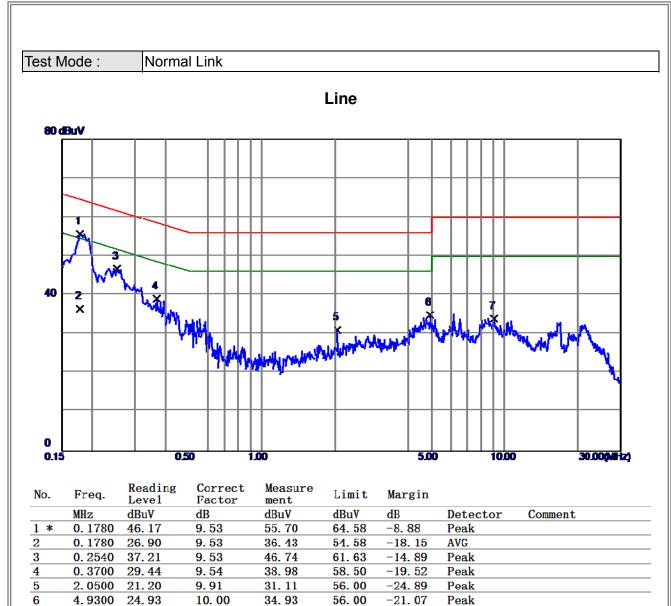


7

9.0420

23.74





10.20

33.94

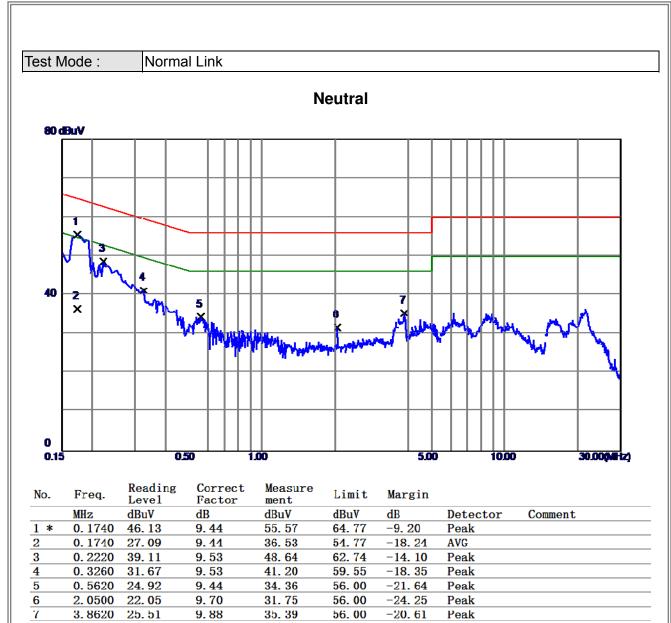
60.00

-26.06

Peak









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



Test Mode: TX B MODE CHANNEL 01							
Frequency	Ant	Read level	Factor	Measured(FS)	Limit	Margin	Note
(MHz)	0°/90°	dBuV/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
0.0092	0°	13.62	24.9840	38.6040	128.3285	-89.7245	AVG
0.0092	0°	14.34	24.9840	39.3240	148.3285	-109.0045	PEAK
0.0289	0°	6.88	23.7363	30.6163	118.3863	-87.7699	AVG
0.0289	0°	8.28	23.7363	32.0163	138.3863	-106.3699	PEAK
0.036	0°	3.36	23.2867	26.6467	116.4782	-89.8315	AVG
0.036	0°	5.67	23.2867	28.9567	136.4782	-107.5215	PEAK
0.0581	0°	1.52	22.2380	23.7580	112.3207	-88.5627	AVG
0.0581	0°	2.5	22.2380	24.7380	132.3207	-107.5827	PEAK
0.509	0°	19.57	19.8288	39.3988	73.4699	-34.0711	QP
1.9524	0°	23.8	19.5048	43.3048	69.5400	-26.2352	QP
Frequency	Ant	Read level	Factor	Measured(FS)	Limit	Margin	Note
(MHz)	0°/90°	dBuV/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
0.0122	90°	13.42	24.3000	37.7200	125.8770	-88.1570	AVG
0.0122	90°	14.81	24.3000	39.1100	145.8770	-106.7670	PEAK
0.0257	90°	7.32	23.9390	31.2590	119.4056	-88.1466	AVG
0.0257	90°	8.95	23.9390	32.8890	139.4056	-106.5166	PEAK
0.0439	90°	5.34	22.7863	28.1263	114.7549	-86.6286	AVG
0.0439	90°	6.27	22.7863	29.0563	134.7549	-105.6986	PEAK
0.0579	90°	1.5	22.2420	23.7420	112.3507	-88.6087	AVG
0.0579	90°	2.7	22.2420	24.9420	132.3507	-107.4087	PEAK
0.6254	90°	22.57	20.2013	42.7713	71.6811	-28.9098	QP
2.054	90°	24.49	19.4676	43.9576	69.5400	-25.5824	QP





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

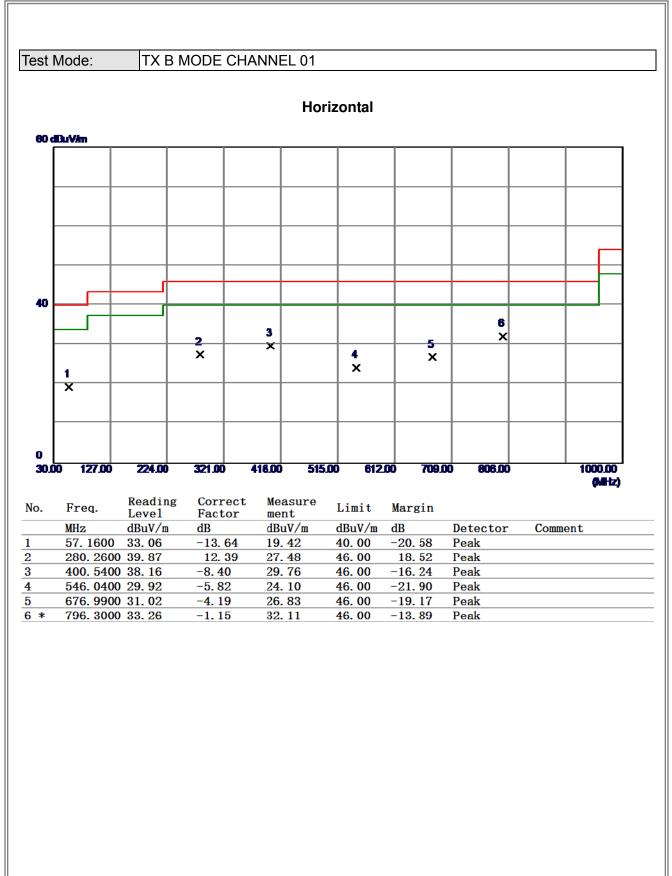






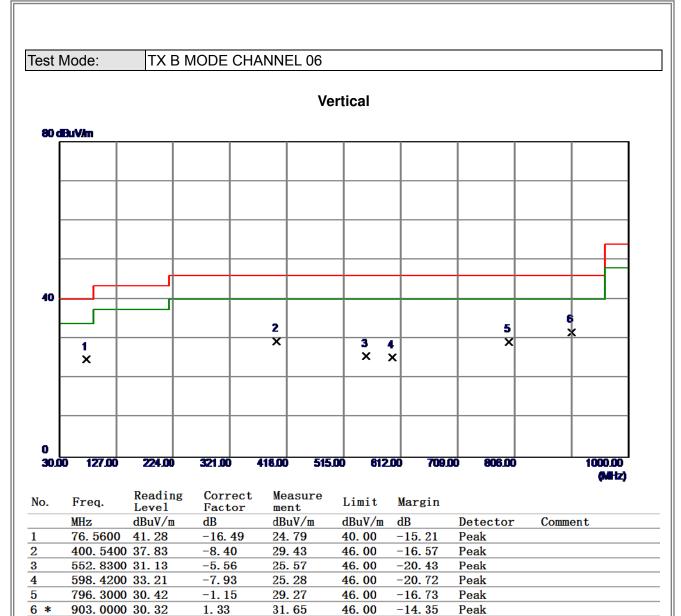






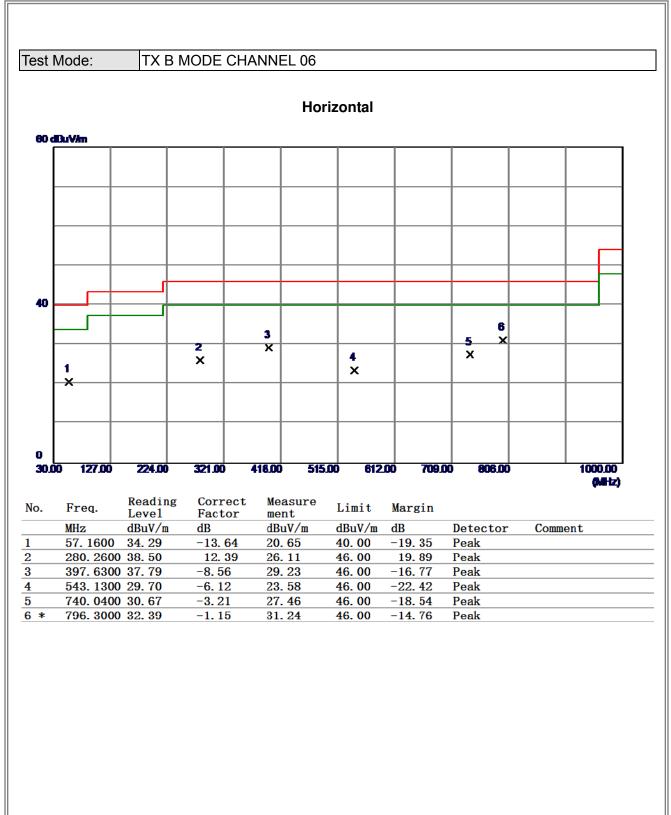






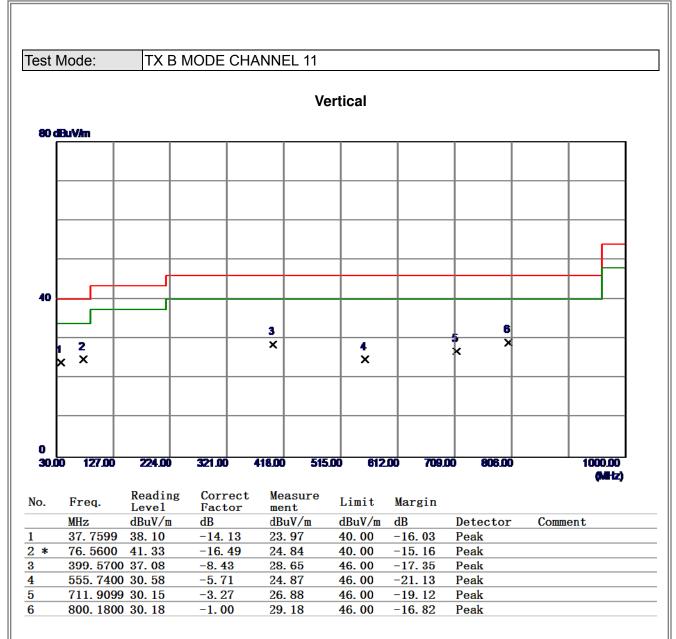






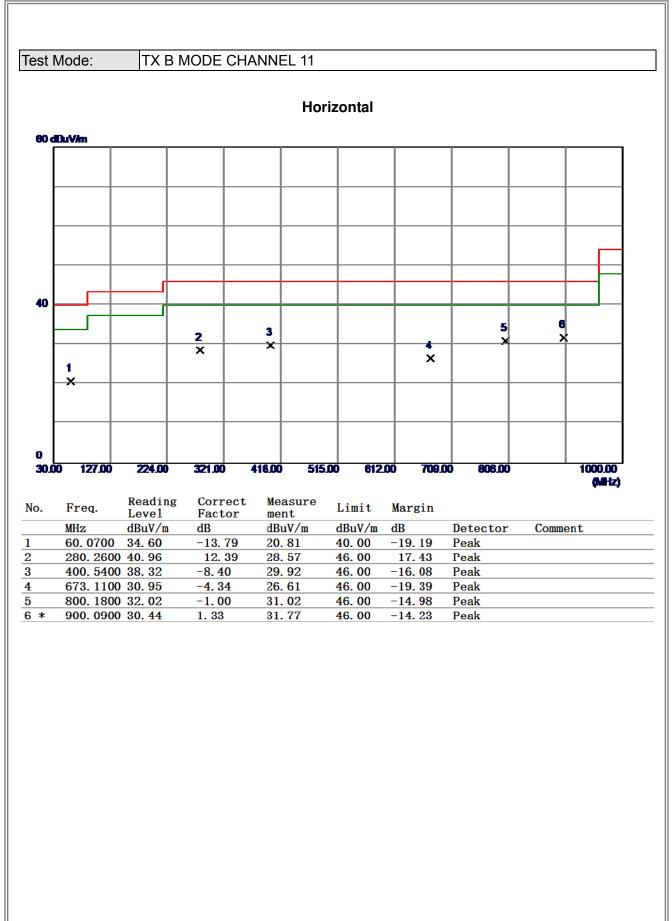










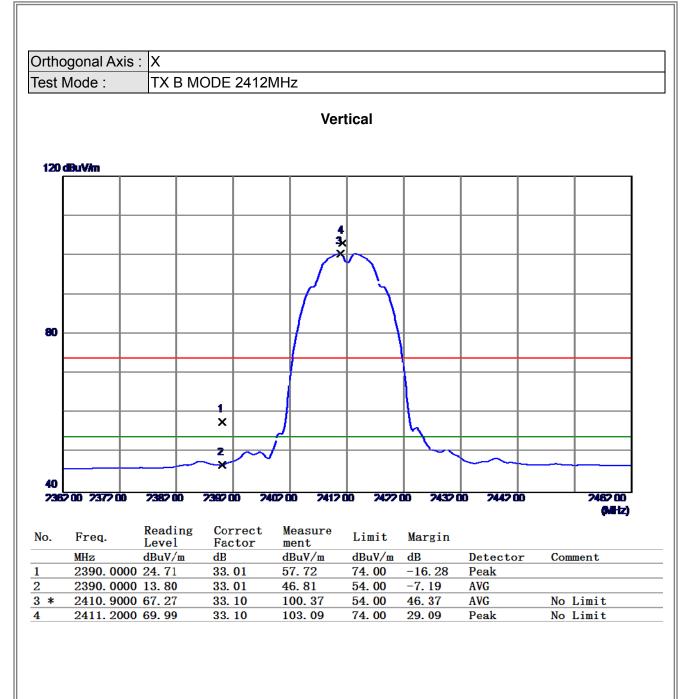




ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

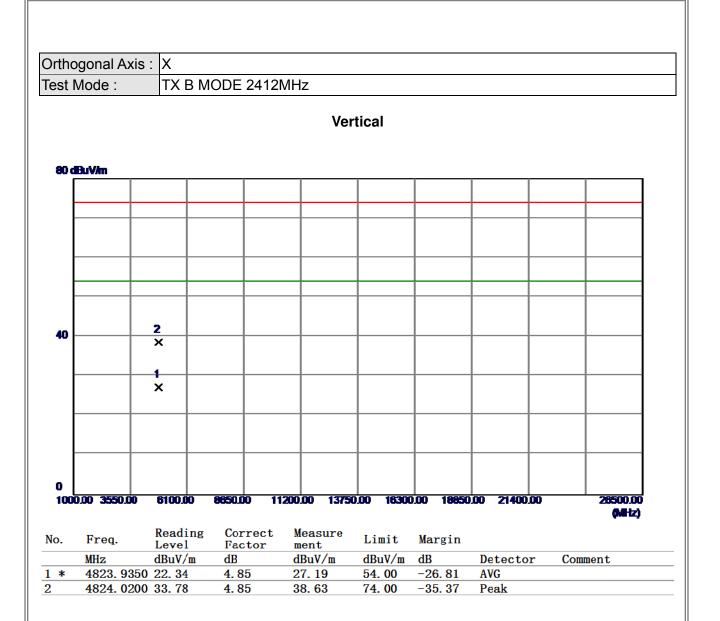






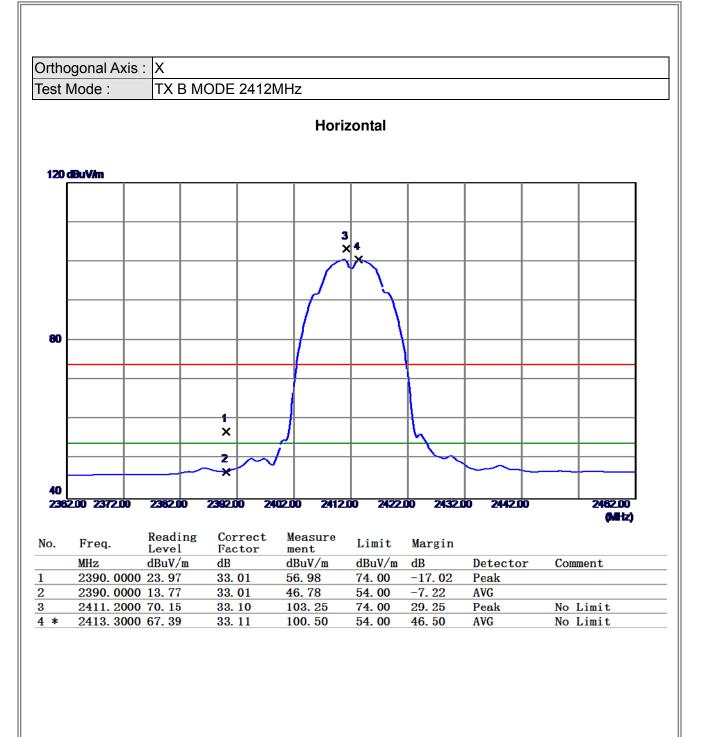






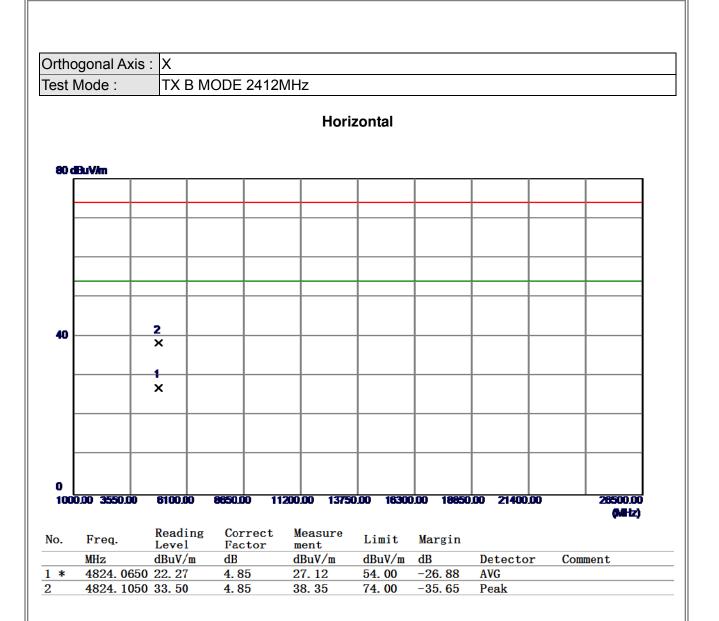






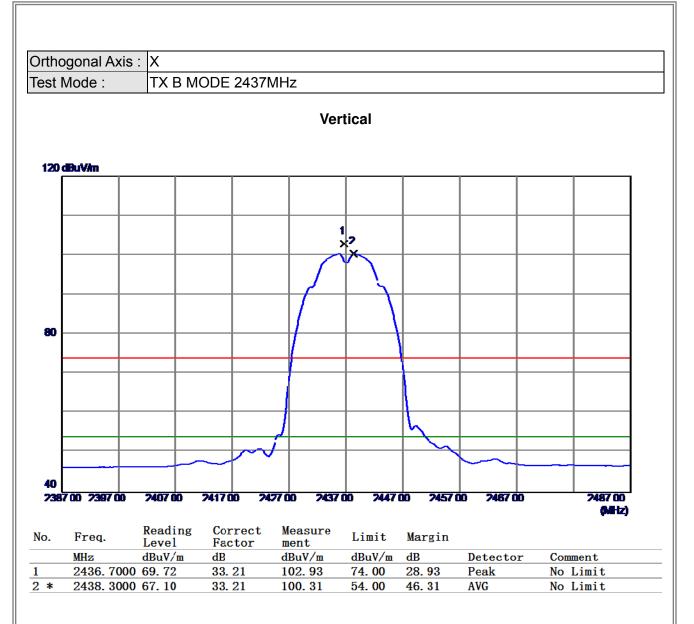






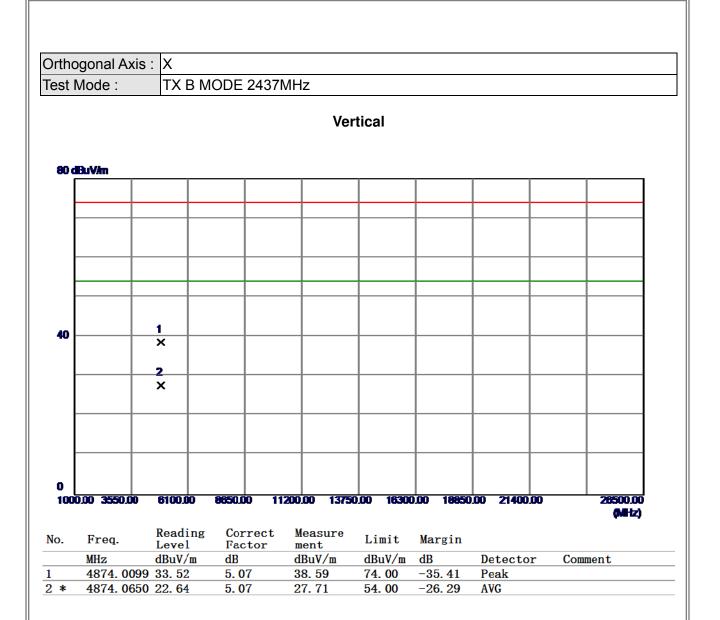






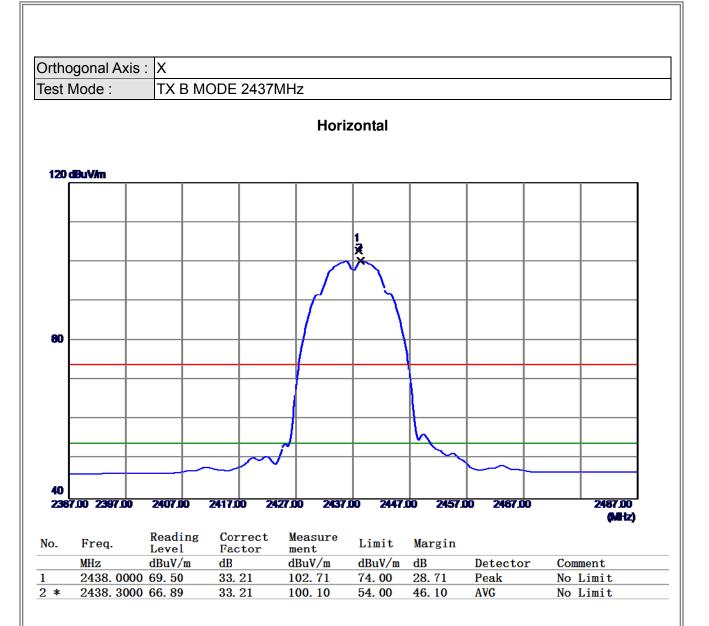






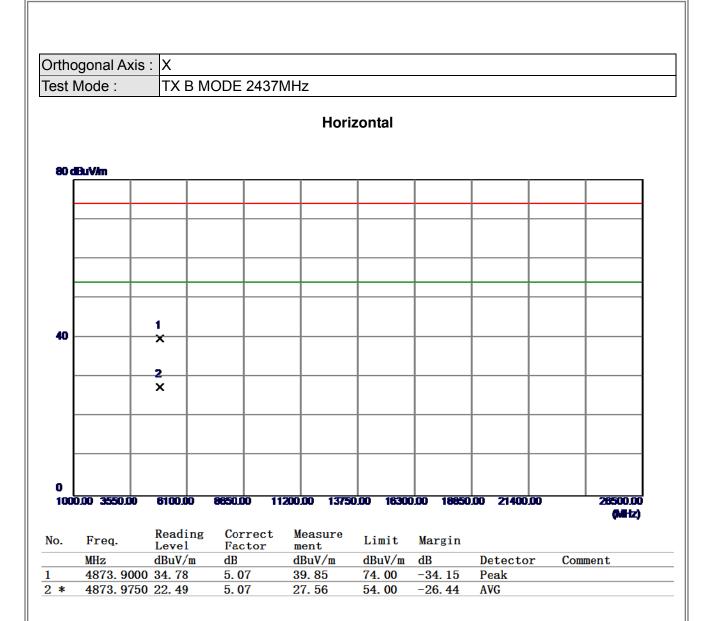






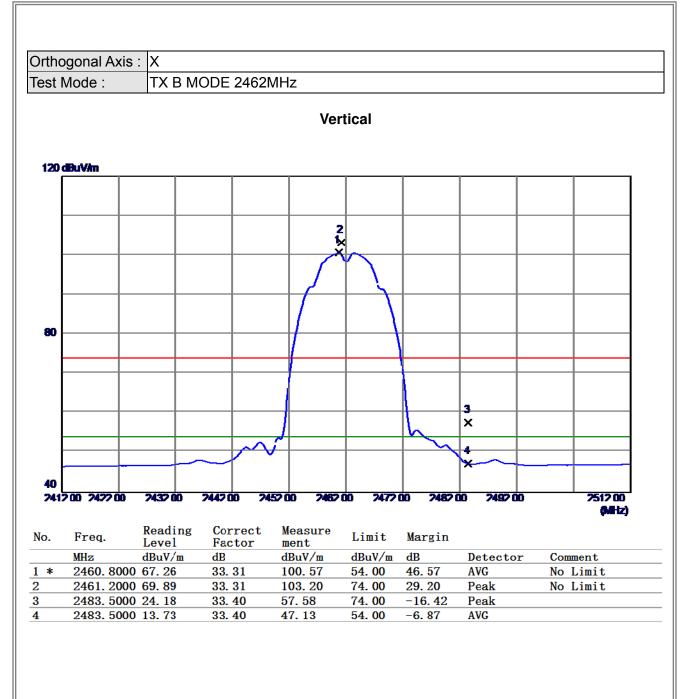






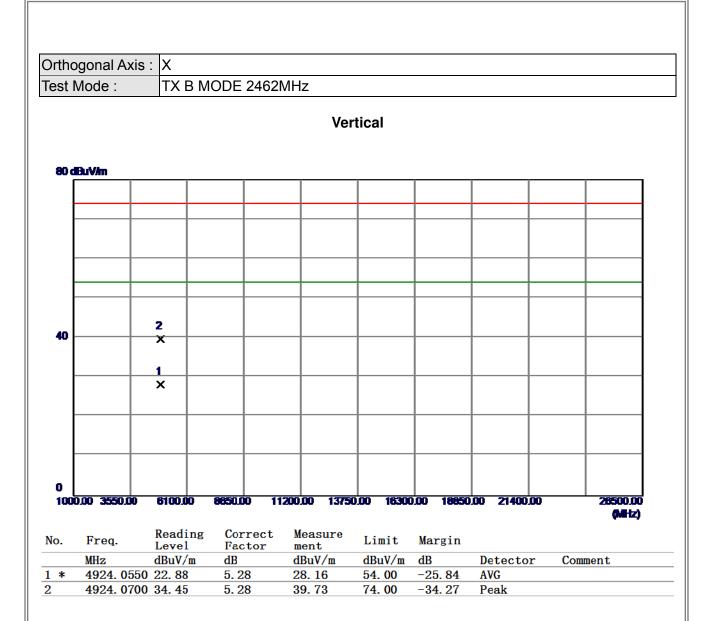






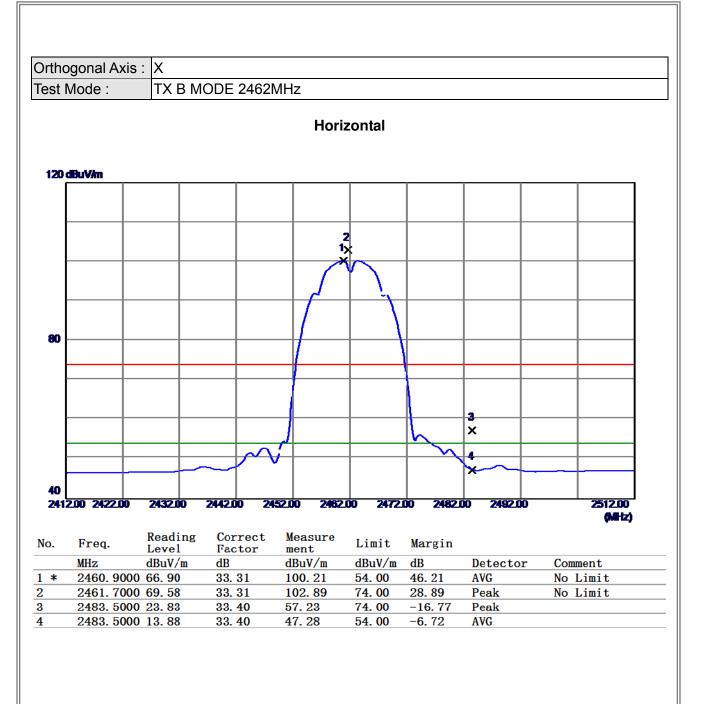






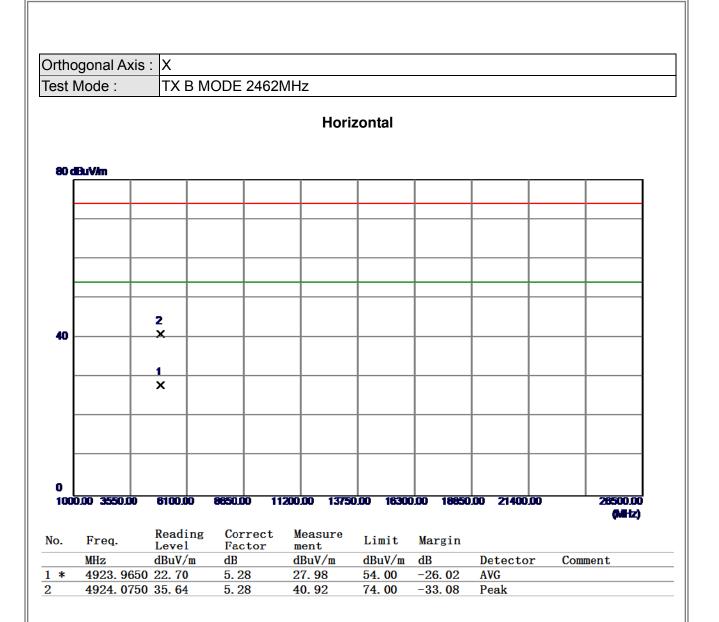






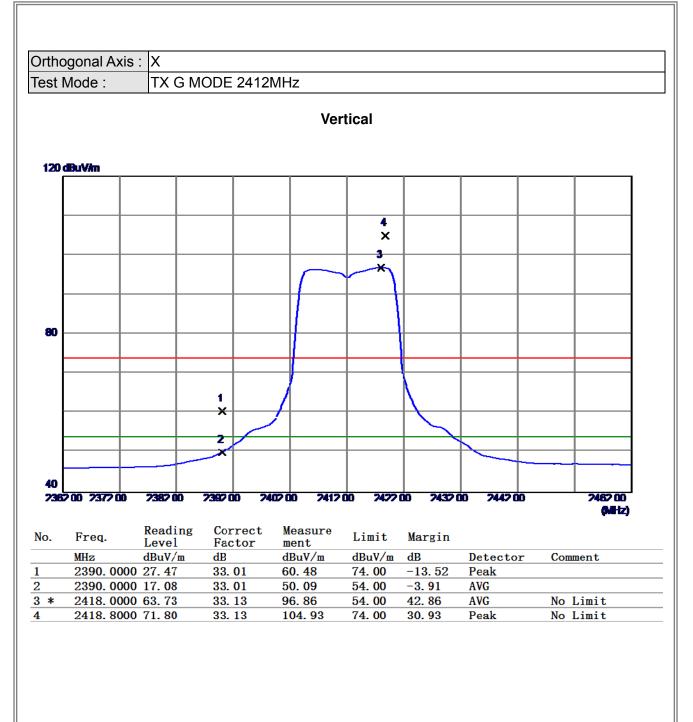






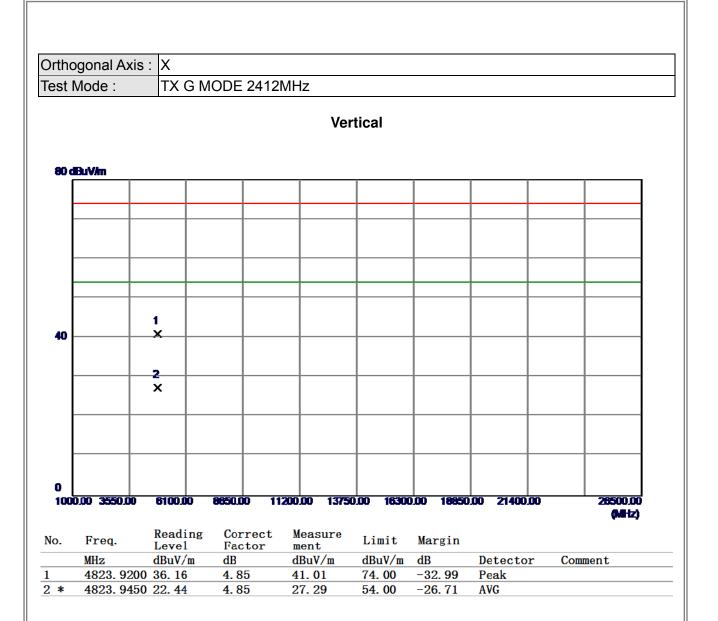






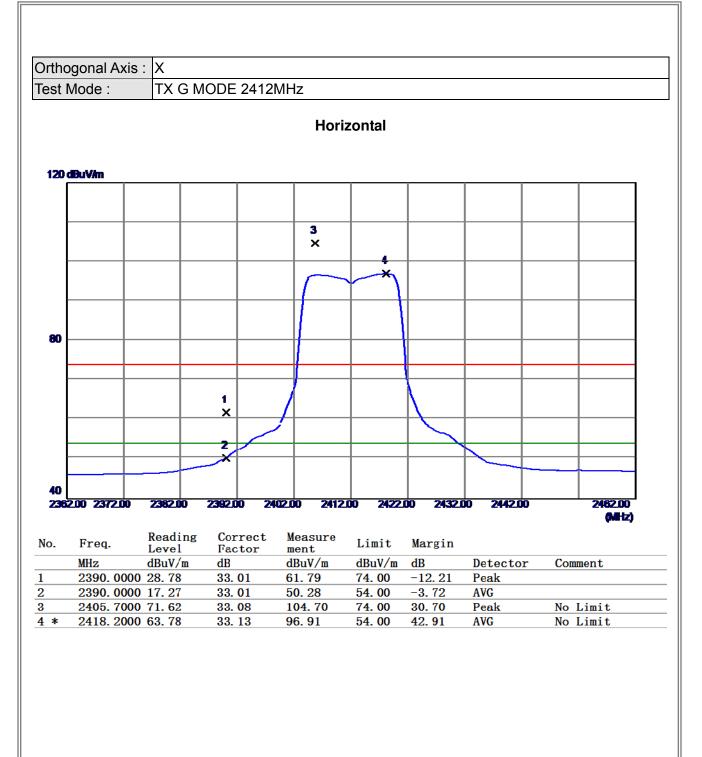






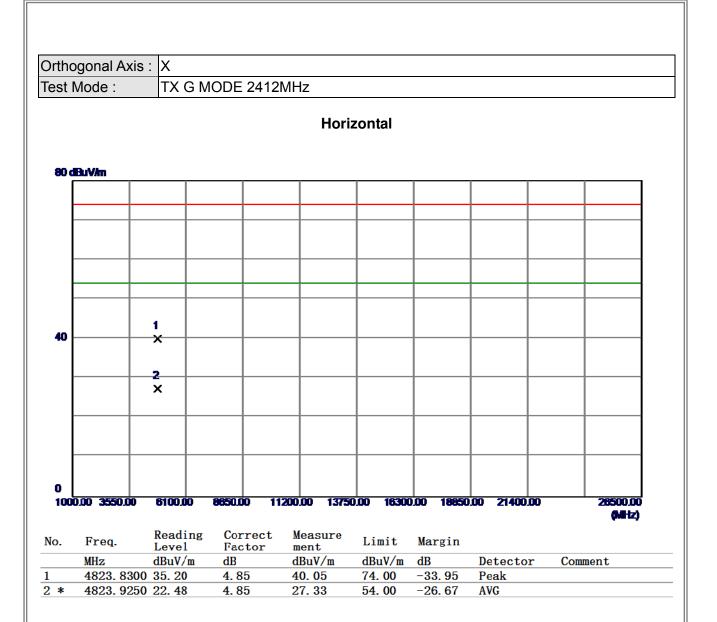






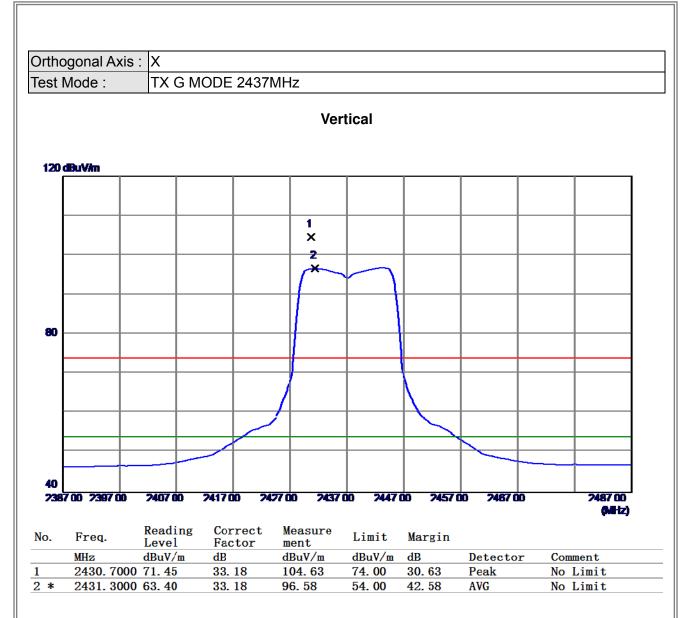






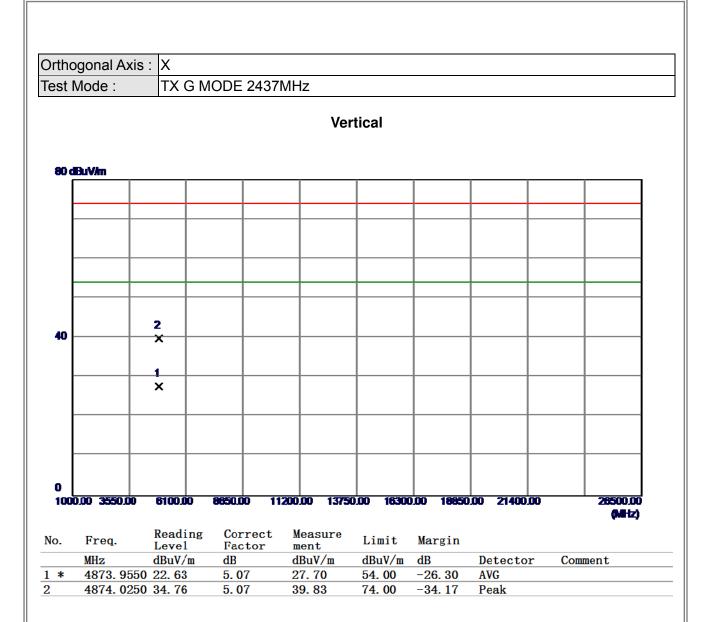






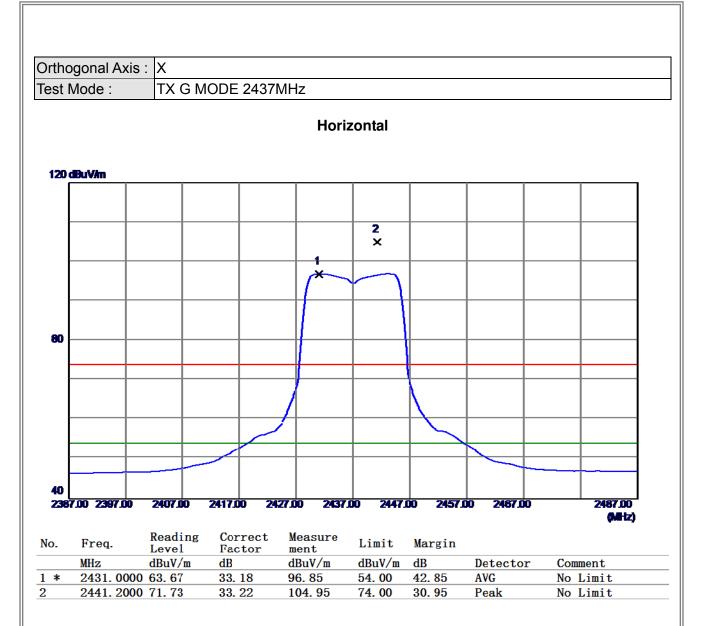






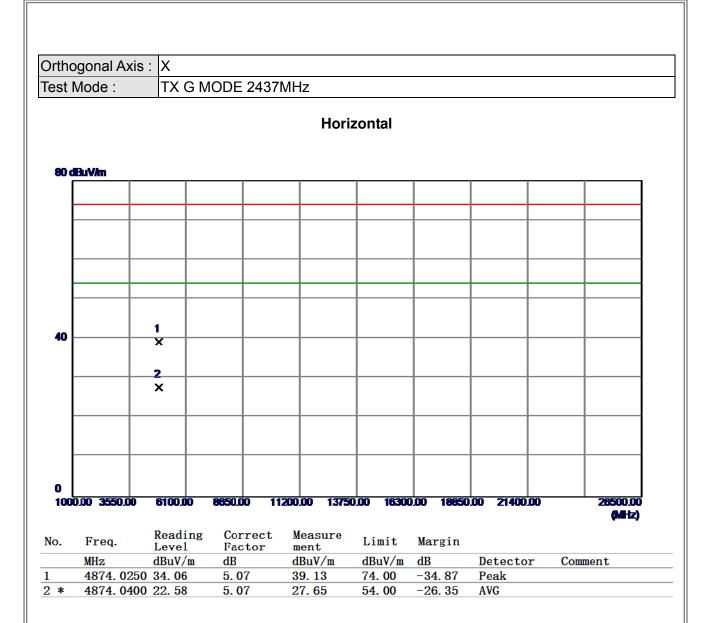






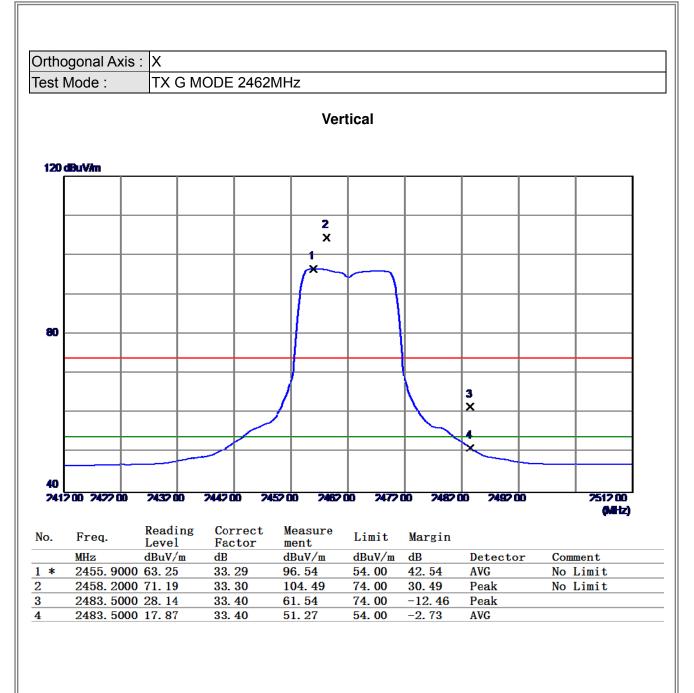






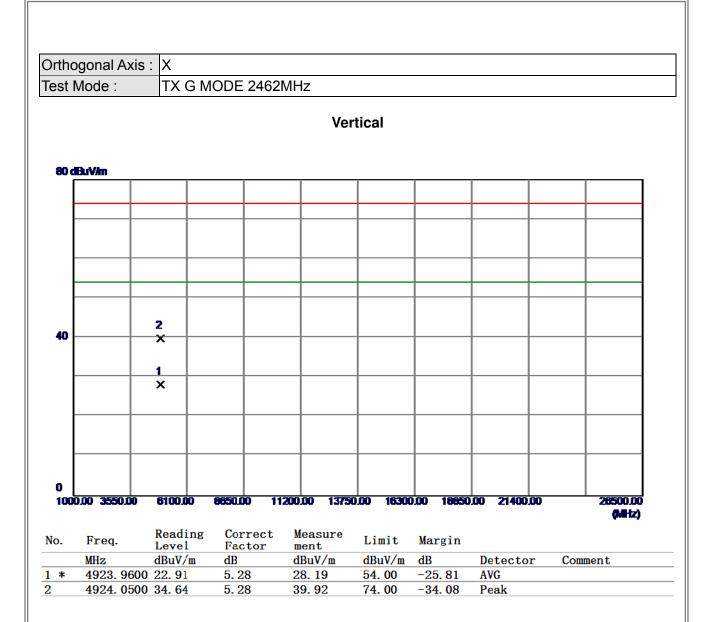






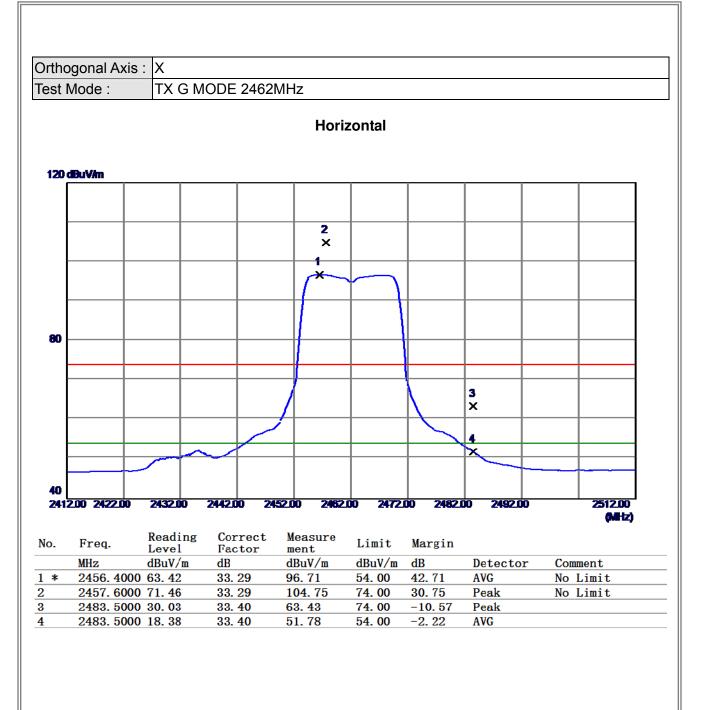






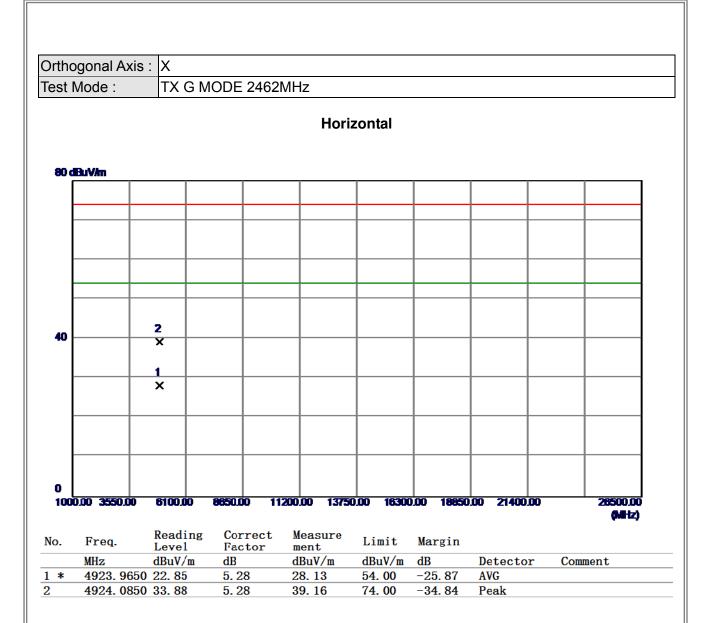






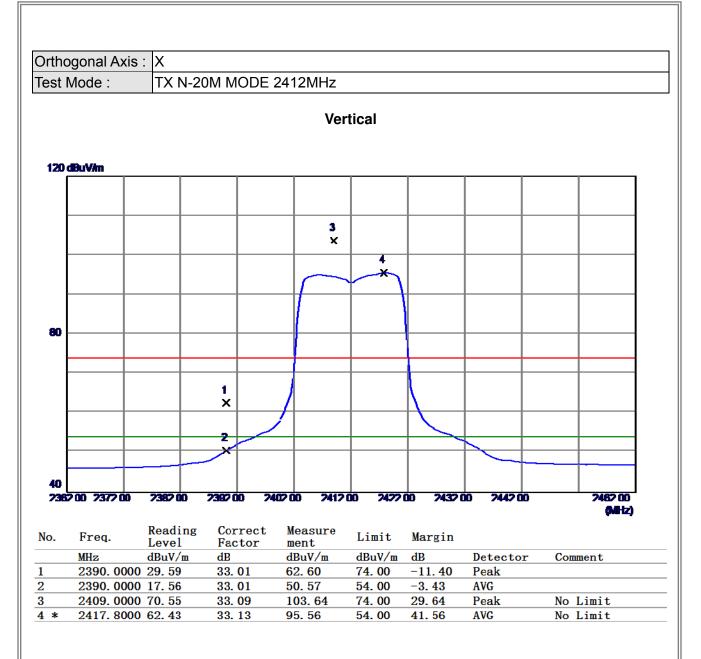






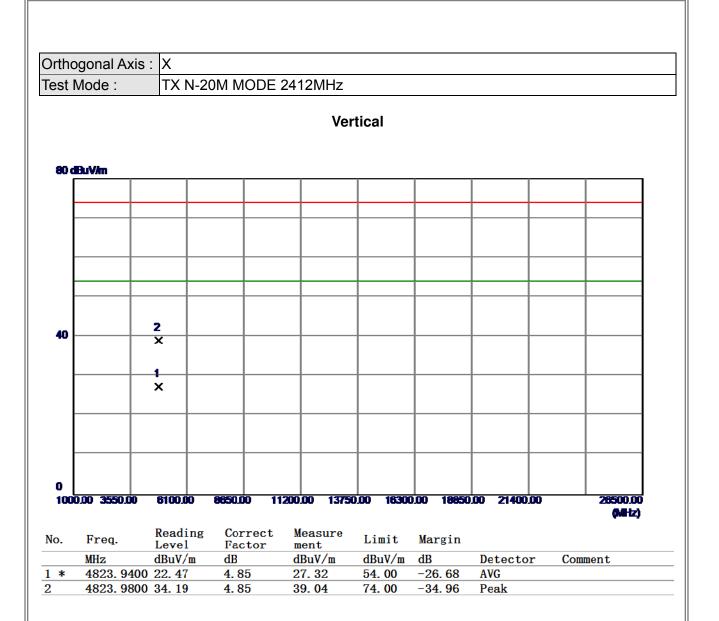






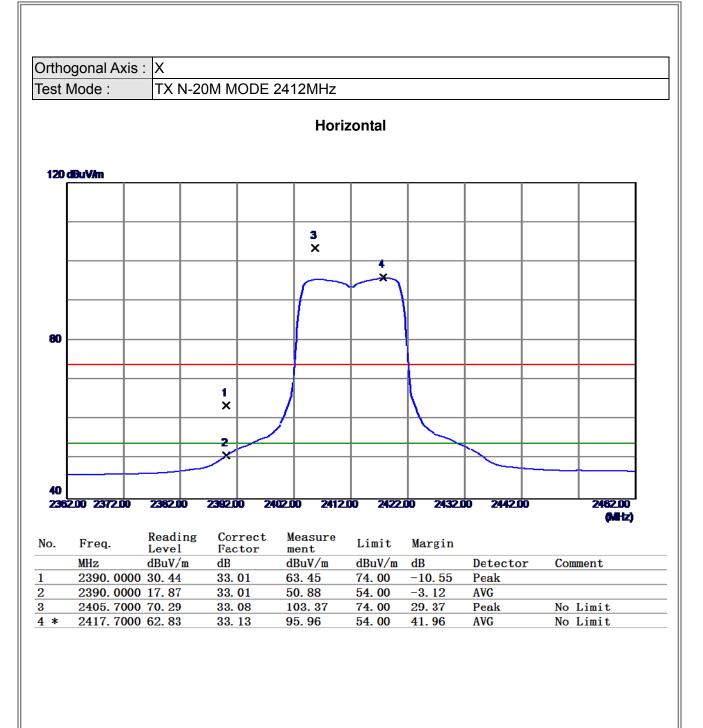






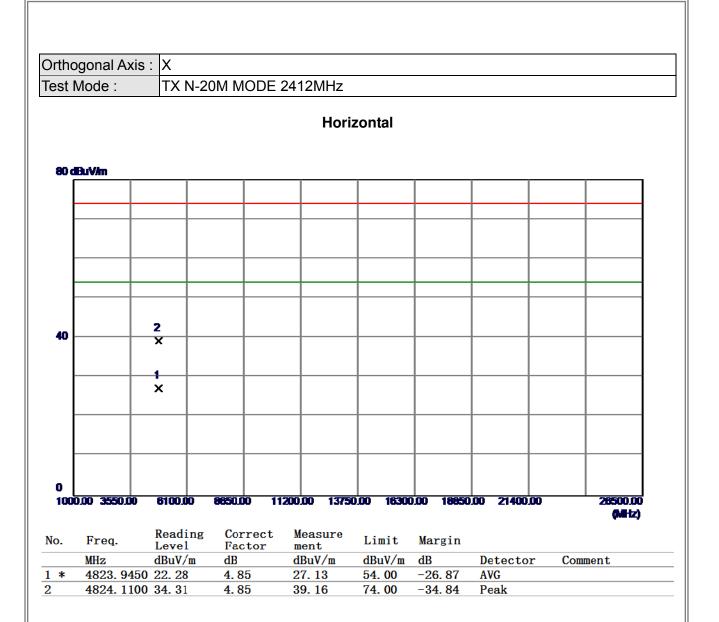






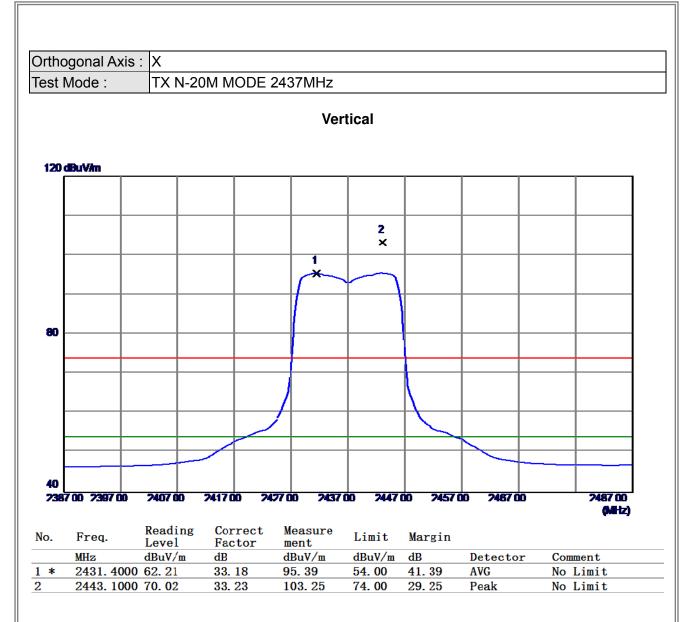






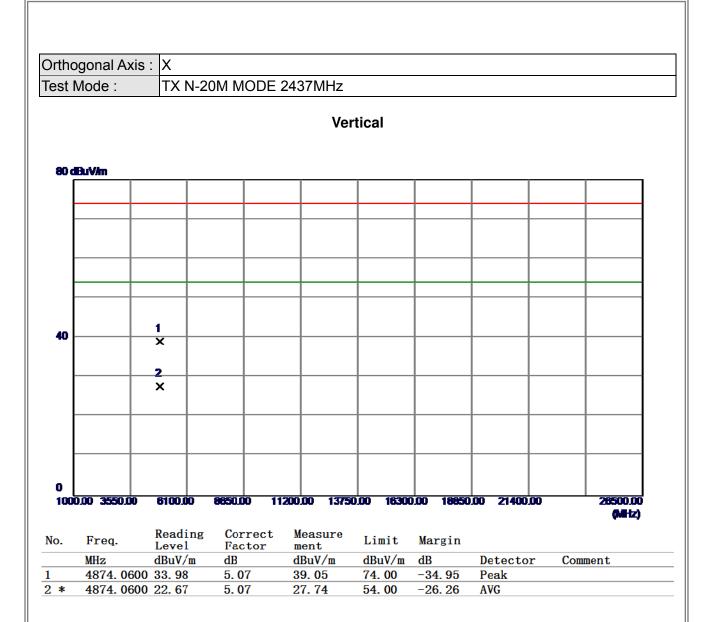






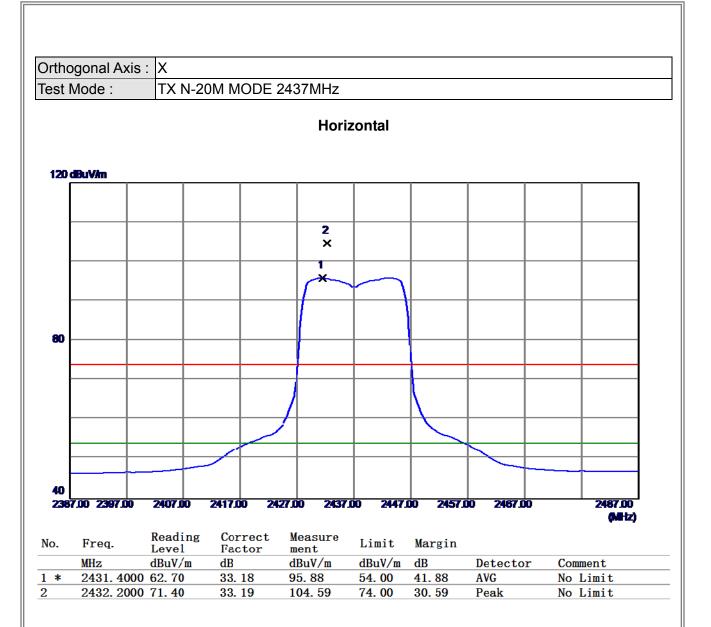






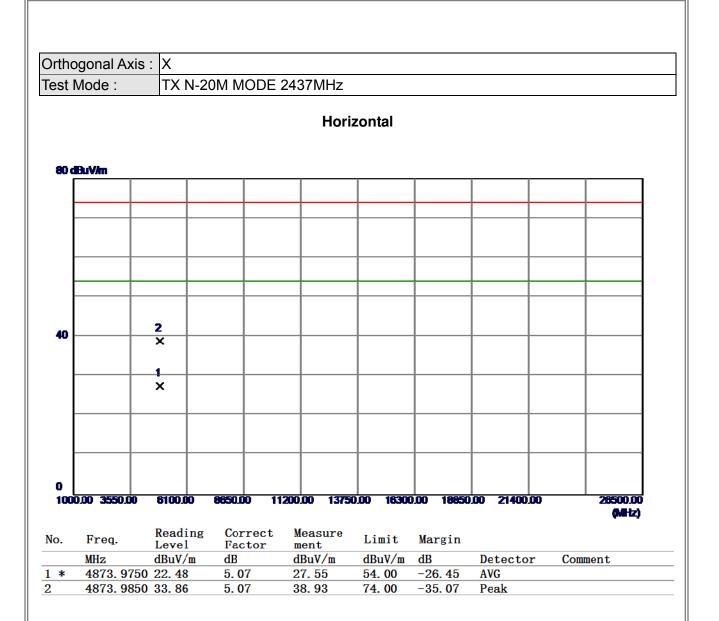






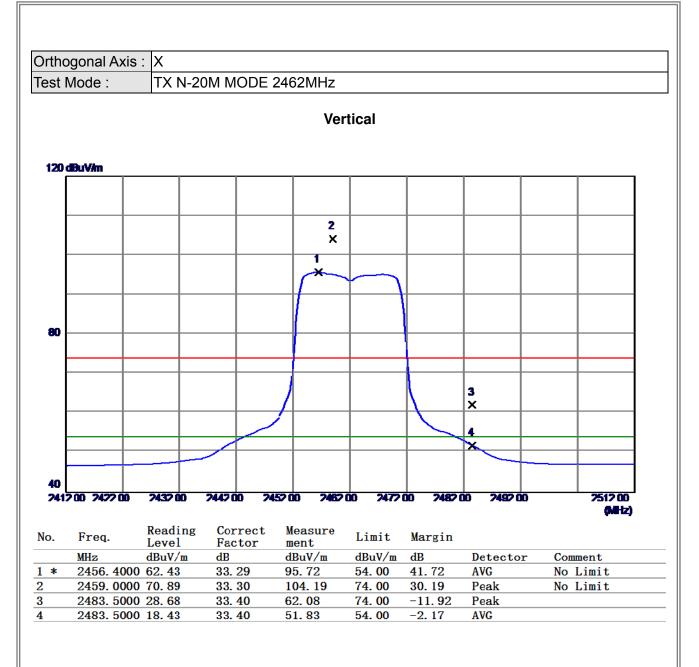






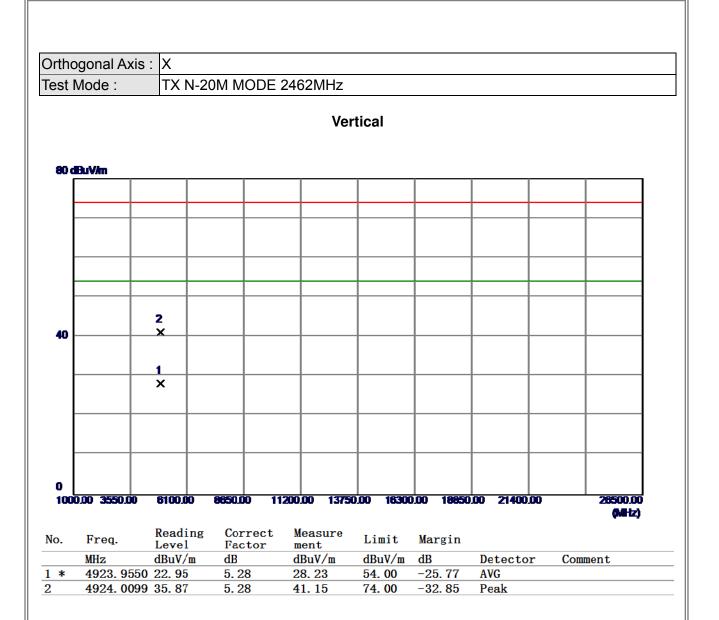






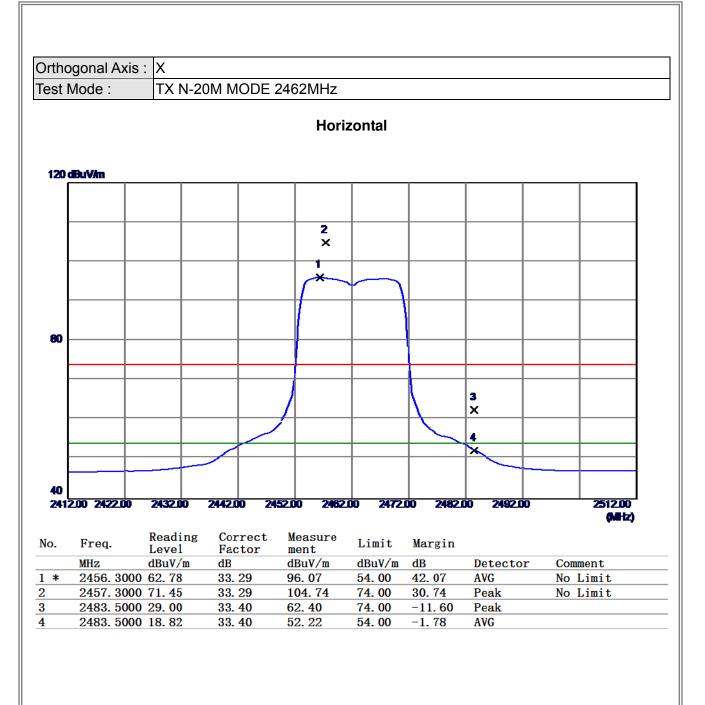






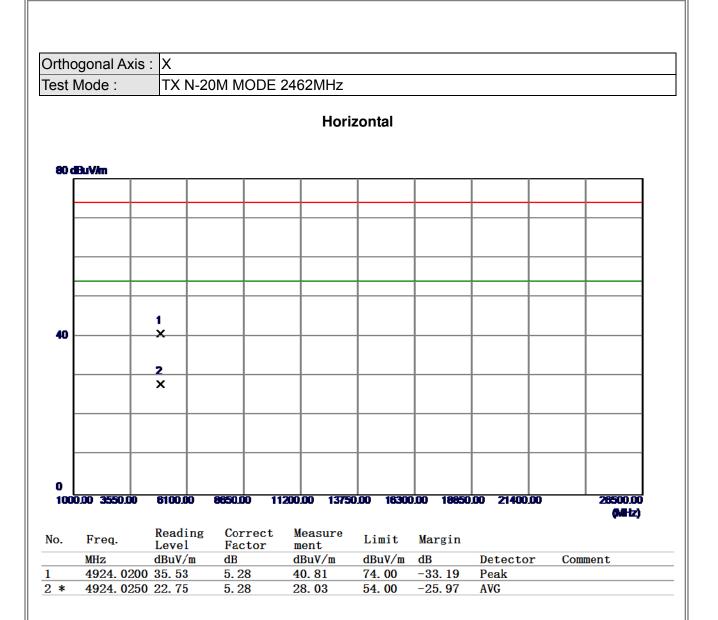






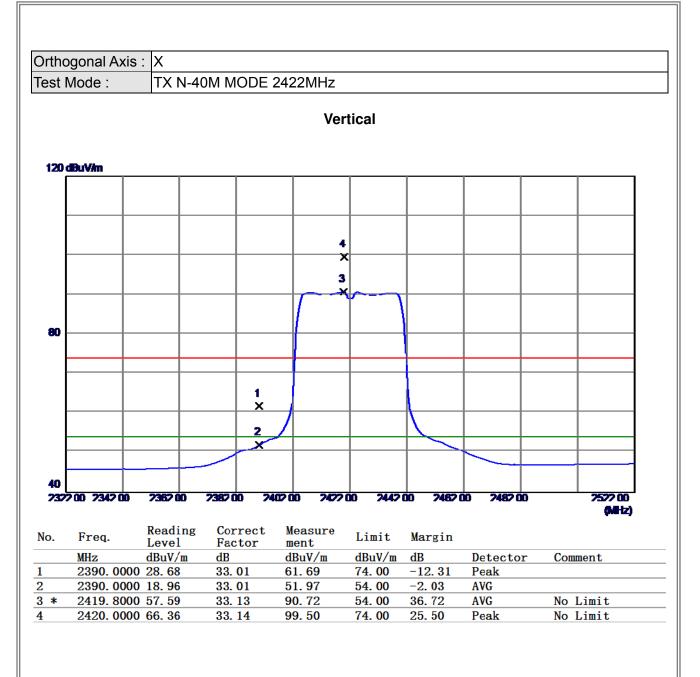






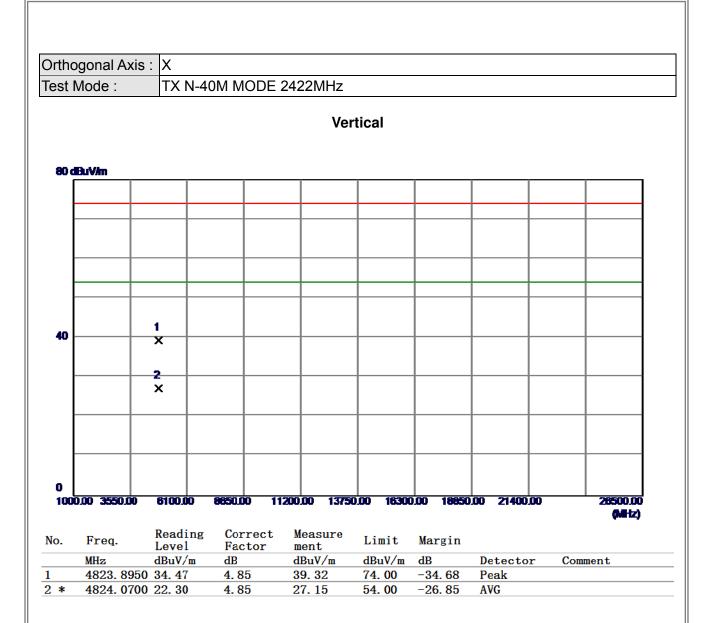






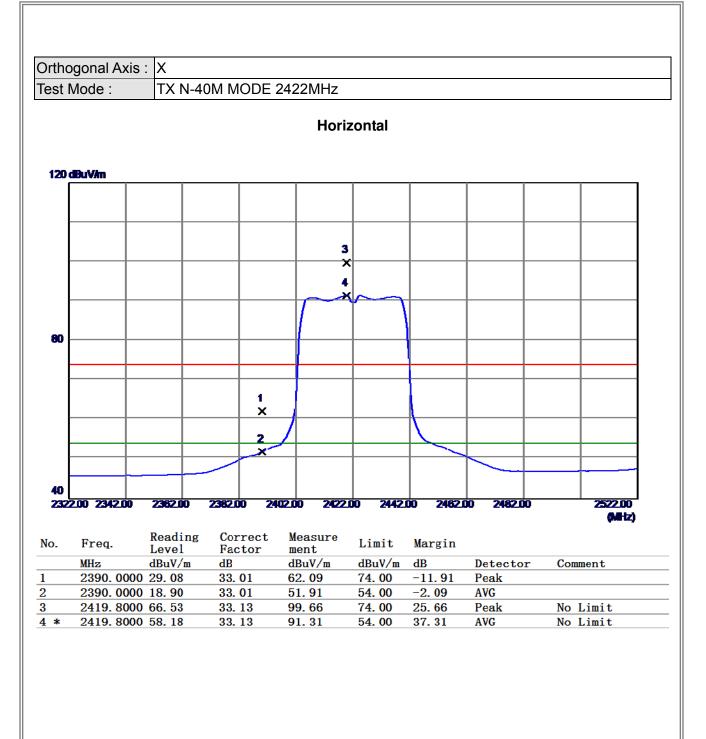






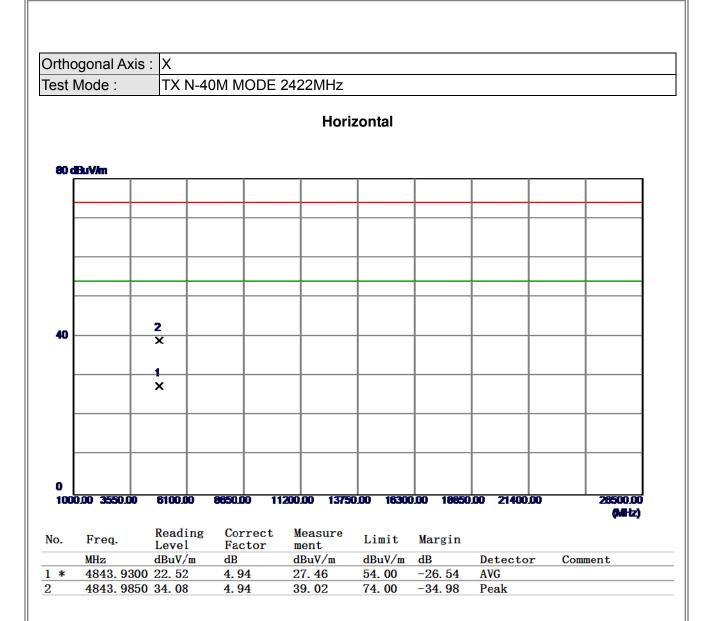






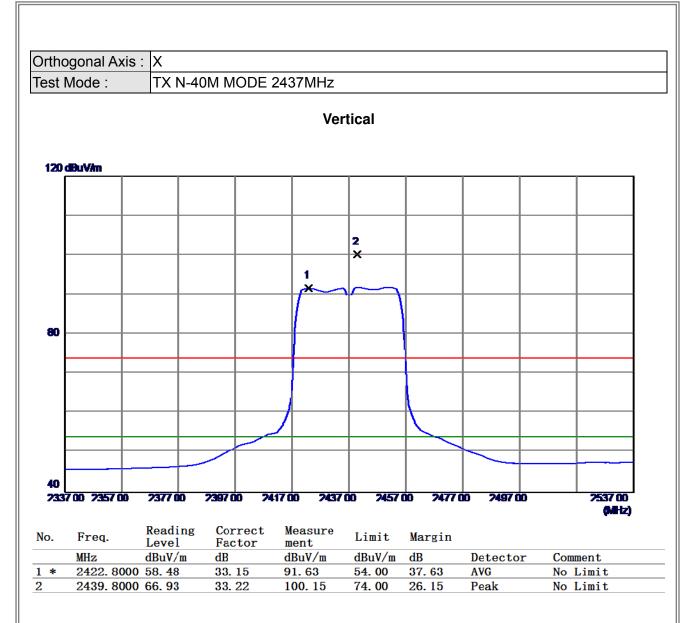






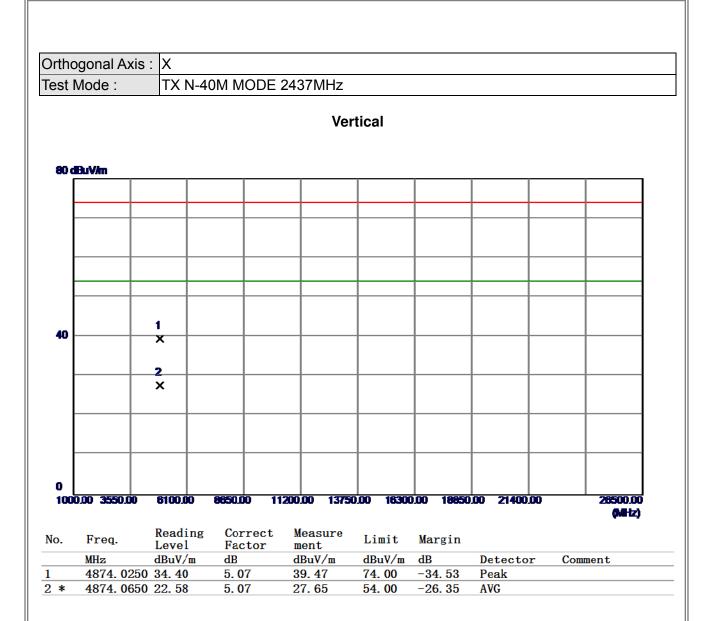






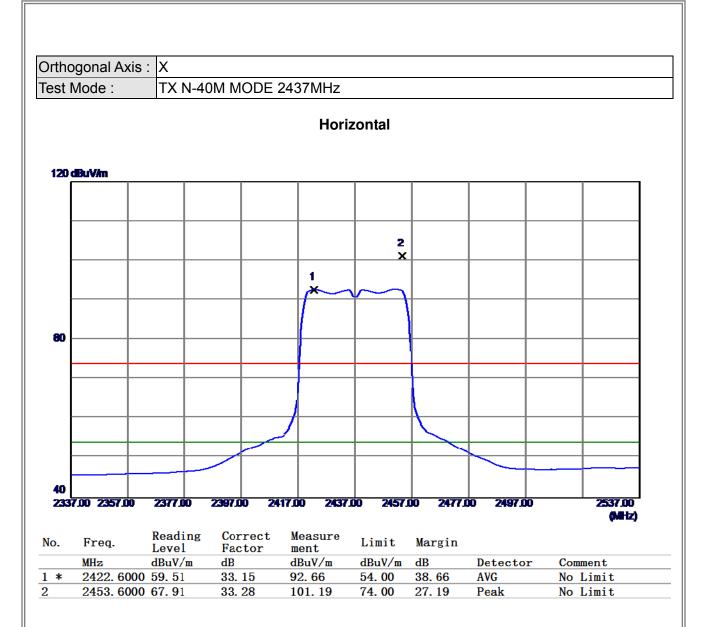






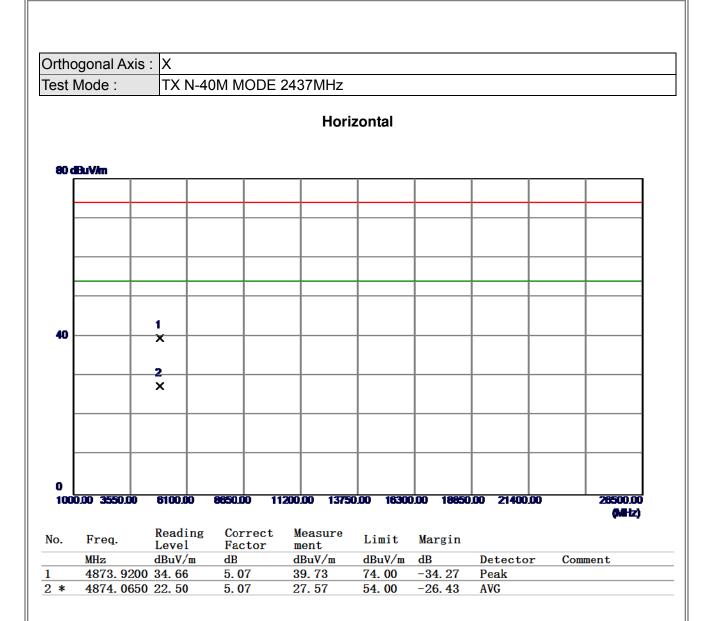






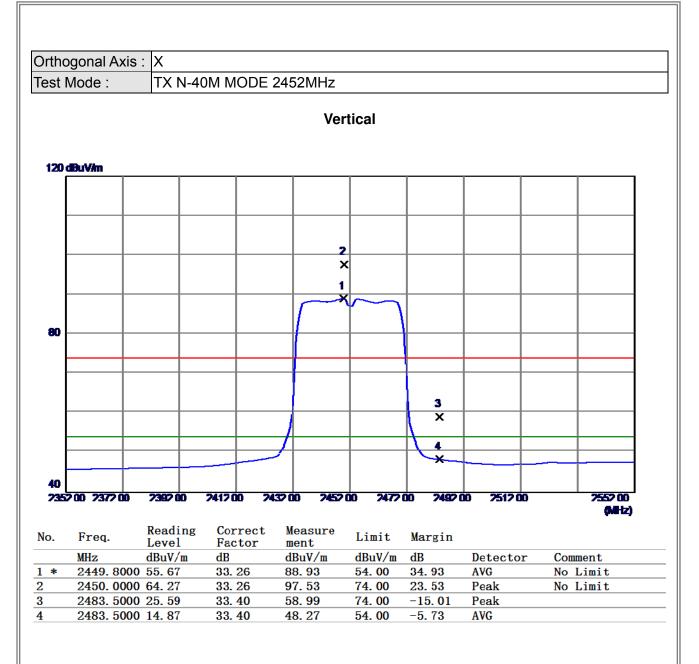






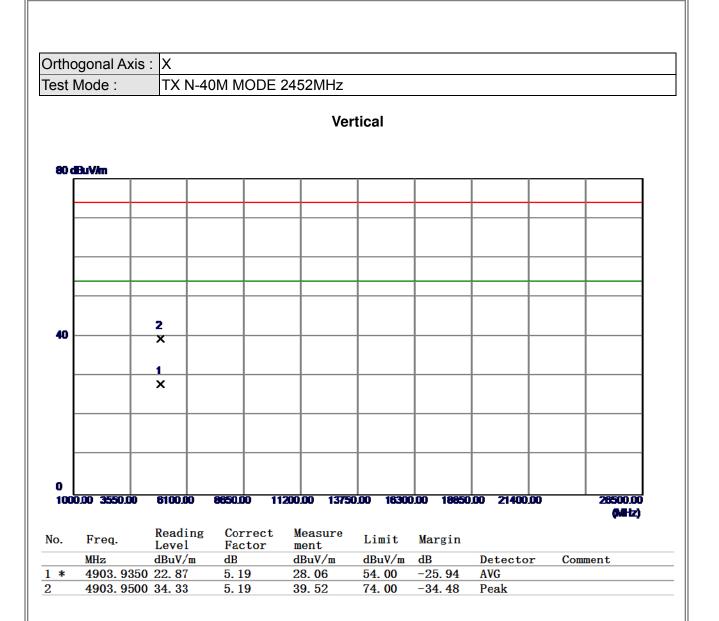






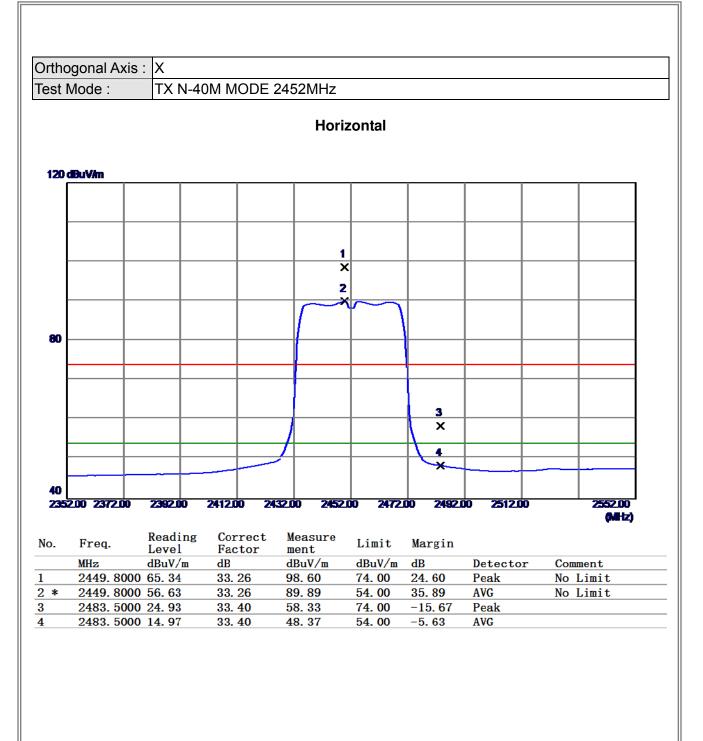






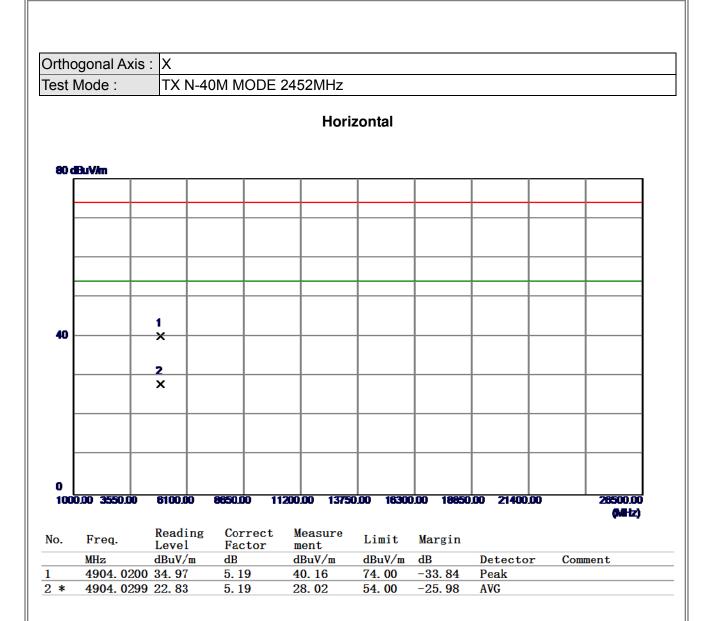














ATTACHMENT E - BANDWIDTH





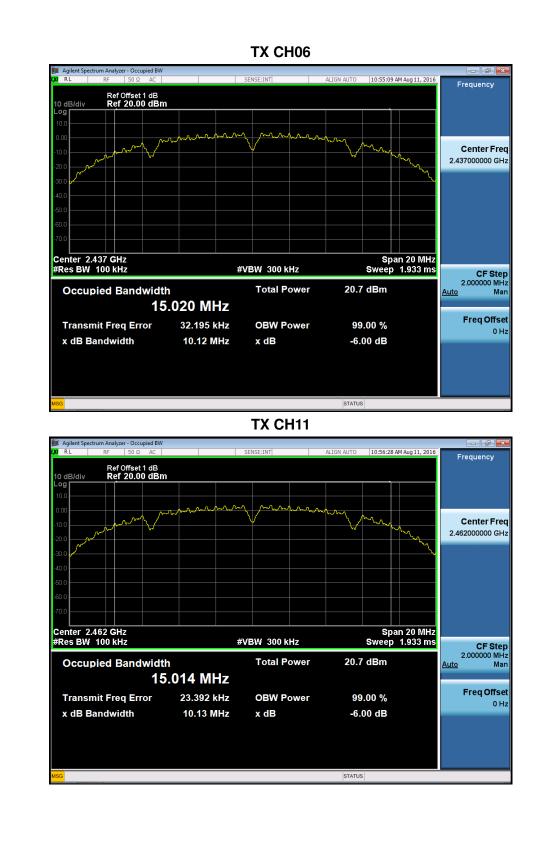
Test Mode : TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.13	15.04	500	Complies
2437	10.12	15.02	500	Complies
2462	10.13	15.01	500	Complies

TX CH01









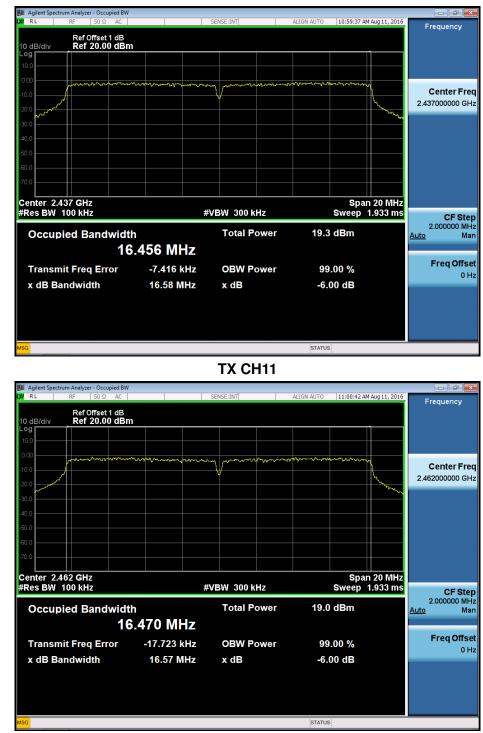
	Test Moo	de: TX G Mode_CH01/06	6/11	
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.57	16.45	500	Complies
2437	16.58	16.46	500	Complies
2462	16.57	16.47	500	Complies

TX CH01





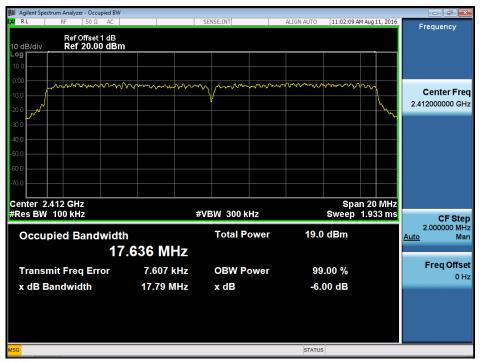




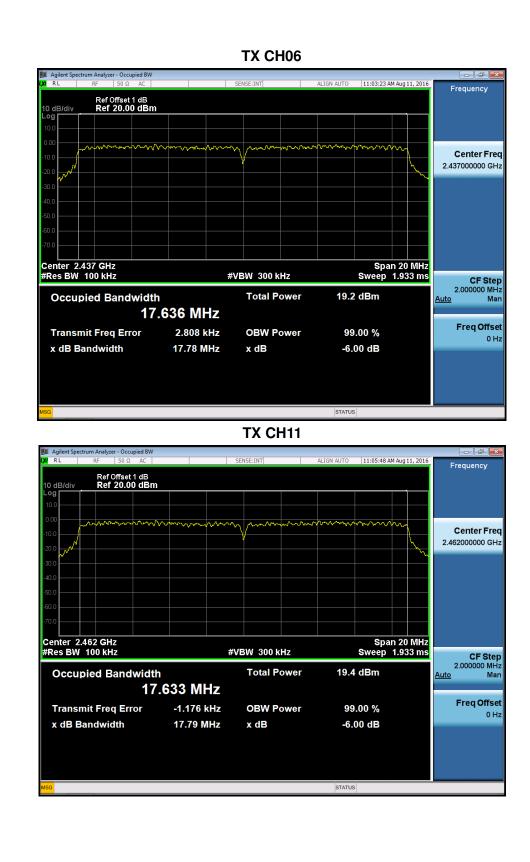


	Test Mode :	TX N-20MHz Mode_CH0	01/06/11	
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.79	17.64	500	Complies
2437	17.78	17.64	500	Complies
2462	17.79	17.63	500	Complies





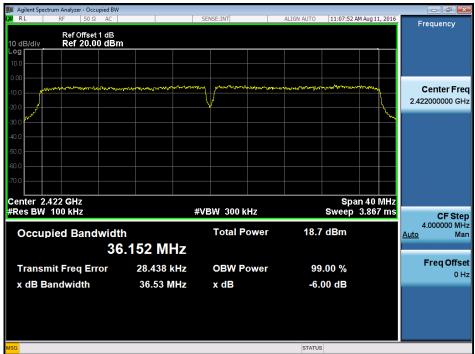






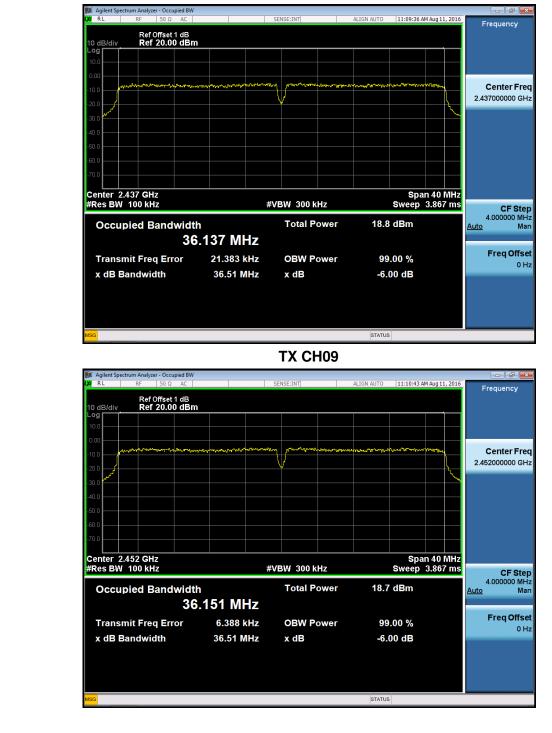
	Test Mode :	TX N-40MHz Mode_CH0	03/06/09	
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.53	36.15	500	Complies
2437	36.51	36.14	500	Complies
2452	36.51	36.15	500	Complies

TX CH03













ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER



	Те	st Mode :TX B Mo	de_CH01/06/11		
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	18.12	0.06	30.00	1.00	Complies
2437	17.06	0.05	30.00	1.00	Complies
2462	16.78	0.05	30.00	1.00	Complies

	Те	st Mode :TX G Mo	de_CH01/06/11		
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	23.55	0.23	30.00	1.00	Complies
2437	23.51	0.22	30.00	1.00	Complies
2462	23.41	0.22	30.00	1.00	Complies

	Tes	t Mode :TX N20 M	ode_CH01/06/11		
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	22.41	0.17	30.00	1.00	Complies
2437	22.53	0.18	30.00	1.00	Complies
2462	22.61	0.18	30.00	1.00	Complies

	Tes	t Mode :TX N40 Mo	ode_CH03/06/09		
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2422	20.61	0.12	30.00	1.00	Complies
2437	21.71	0.15	30.00	1.00	Complies
2452	19.02	0.08	30.00	1.00	Complies

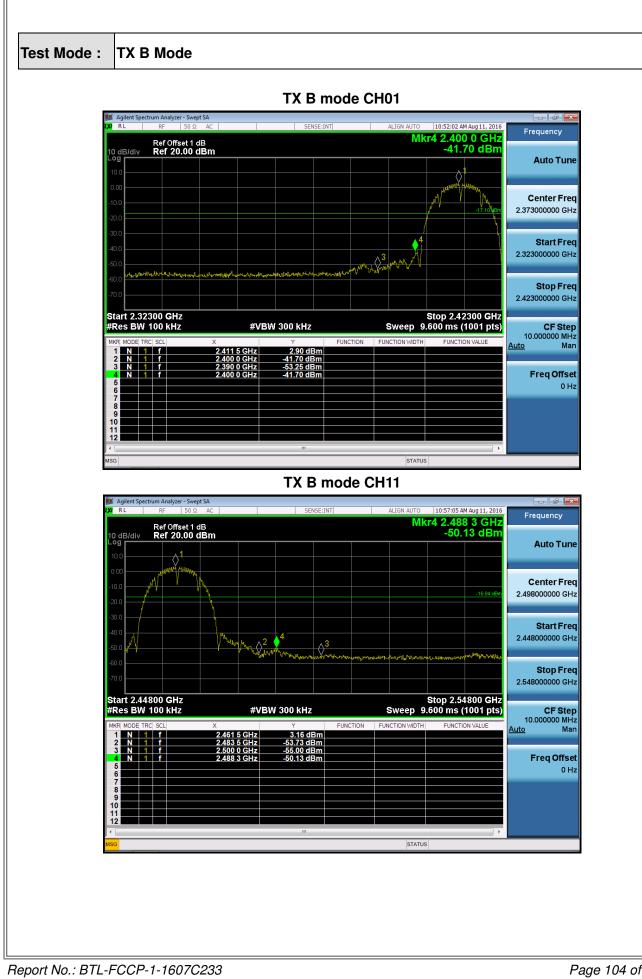




ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION







Magilent Spe	RF 50 Ω	AC		SEI	NSE:INT		ALIGN AUTO	10:51:35 A	4 Aug 11, 2016	Frequency
	Ref Offset 1 di Ref 20.00 di	3					Mk	r2 2.64	0 6 GHz 81 dBm	requeries
10 dB/div Log	Ref 20.00 dl	Bm						-50.	81 aBm	Auto Tu
										Autoru
10.0										
										Center Fr
0.00										1.515000000 G
-10.0										Start Fr
									-17.05 dBm	30.000000 M
-20.0										
										Stop Fr
-30.0										3.00000000 G
-40.0										
										CF Sto 297.000000 M
-50.0								↓		<u>Auto</u> M
	ultroughowhengenege	b. lobal	landin day burne a	Julianda a la	p. Mondersk	Hormontylature	three book	howwoodubal	hellowlonger	
-60.0	lilly under a state of the second	Merilian Indian	at the book of the second s							Freq Offs
										0
-70.0										
Start 30	ЛНг							Stop 3	.000 GHz	
			#VRM	300 kHz			Sweep 2	83.9 ms (1001 pts)	
#Res BW	100 kHz		#VDVV	000 11112						
#Res BW	100 KHZ		<i></i>	COO MIL			STATUS	3		
MSG	Ctrum Analyzer - Swept	SA	<i></i>							
MSG	-		#* 0 **		VSE:INT	_	STATUS	10:51:40 A	4 Aug 11, 2016	Erequency
MSG Agilent Spe XI R L	ctrum Analyzer - Swept RF 50 Ω	AC	#0600			_	STATUS	10:51:40 A	¹ Aug 11, 2016	Erequency
MSG Agilent Spe	ctrum Analyzer - Swept	AC	#VB14			_	STATUS	10:51:40 A	4 Aug 11, 2016	Frequency
MBG Agilent Spe XX RL 10 dB/div Log	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	¹ Aug 11, 2016	Frequency
MSG Agilent Spe XI R L	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	¹ Aug 11, 2016	Frequency Auto Tu
Agilent Spe Agilent Spe RL 10 dB/div 10.0	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	¹ Aug 11, 2016	Frequency Auto Tu Center Fr
MBG Agilent Spe XX RL 10 dB/div Log	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	¹ Aug 11, 2016	Frequency Auto Tu Center Fr
Agilent Spe Agilent Spe RL 10 dB/div 0,00	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	¹ Aug 11, 2016	Frequency Auto Tu Center Fr 9.000000000 G
Agilent Spe Agilent Spe RL 10 dB/div 10.0	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	4 Aug 11, 2016 100 GHz 71 dBm	Frequency Auto Tu Center Fr 9.000000000 G Start Fr
Agilent Spe Agilent Spe RL 10 dB/div 0,00	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	¹ Aug 11, 2016	Frequency Auto Tu Center Fr 9.000000000 G Start Fr
MSG Agilent Species (Constraint) Agilent Species (Constraint) (Constra	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	4 Aug 11, 2016 100 GHz 71 dBm	Auto Tu Center Fr 9.00000000 G Start Fr 3.000000000 G
MSG Agilent Species (Constraint) Agilent Species (Constraint) (Constra	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	4 Aug 11, 2016 100 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.00000000 G
MSG Agilent Species (Constraint) (Constraint	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	4 Aug 11, 2016 100 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.000000000 G
MSG Agilent Species (Constraint) (Constraint	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	4 Aug 11, 2016 100 GHz 71 dBm	Frequency Auto Tu Center Fr 9.000000000 G Start Fr 3.000000000 G Stop Fr 15.000000000 G
MSG Agilent Specific View of the second seco	ctrum Analyzer - Swept RF 50 Ω	AC				_	STATUS	10:51:40 A	4 Aug 11, 2016 100 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.00000000 G Stop Fr 15.00000000 G CF St 1.20000000 G
MSG Agilent Specific Ag	Ref Offset 1 db Ref 20.00 dl	AC 3 Bm					ALIGN AUTO	10:51:40 Al kr1 15.C -50.	4 Aug 11, 2016 100 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.00000000 G Stop Fr 15.00000000 G CF St 1.200000000 G
MSG Agilent Species (Constraint) (Constraint	Ref Offset 1 db Ref 20.00 dl	AC				_	ALIGN AUTO	10:51:40 Al kr1 15.C -50.	4 Aug 11, 2016 100 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.00000000 G Stop Fr 15.00000000 G CF St 1.20000000 G Auto Tu
MSG Agilent Specific View of the second seco	Ref Offset 1 db Ref 20.00 dl	AC 3 Bm			NSE:INT		ALIGN AUTO	10:51:40 Al kr1 15.C -50.	4 Aug 11, 2016 000 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.00000000 G Stop Fr 15.00000000 G 1.20000000 G Auto Tu Preq Offs
MSG Agilent Species (Constraint) (Constraint	Ref Offset 1 db Ref 20.00 dl	AC 3 Bm			NSE:INT		ALIGN AUTO	10:51:40 Al kr1 15.C -50.	4 Aug 11, 2016 000 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.000000000 G Stop Fr 15.00000000 G 1.200000000 G Auto Tu Preq Offs
MSG Agilent Species (Constraint) (Constraint	Ref Offset 1 db Ref 20.00 dl	AC 3 Bm			NSE:INT		ALIGN AUTO	10:51:40 Al kr1 15.C -50.	4 Aug 11, 2016 000 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.00000000 G Stop Fr 15.00000000 G CF St 1.20000000 G Auto Tu
MSG Agilent Species (Constraint) (Constraint	Ref Offset 1 db Ref 20.00 dl	AC 3 Bm			NSE:INT		ALIGN AUTO	10:51:40 Al kr1 15.C -50.	4 Aug 11, 2016 000 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.00000000 G Stop Fr 15.00000000 G 1.20000000 G Auto Tu Preq Offs
MSG Agilent Species Agilent Species 10 dB/div 10 0 -10 0 -10 0 -20 0 -2	Ctrum Analyzer - Swept RF 50 Q Ref Offset 1 dE Ref 20.00 d State of the second sec	AC 3 Bm		Ser And And And And And And And And And And	YSE:INT		ALIGN AUTO	10:51:40 Akr1 15.C -50.	4 Aug 11, 2016 00 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.000000000 G Stop Fr 15.00000000 G 1.200000000 G Auto Tu Preq Offs
MSG Agilent Specific R L 10 d 10 0 -10 0 -20 0 -20 0 -20 0 -40 0 -50 0 -60 0 -60 0 -70 0 -70 0	Ctrum Analyzer - Swept RF 50 Q Ref Offset 1 dE Ref 20.00 d State of the second sec	AC 3 Bm			YSE:INT		ALIGN AUTO	10:51:40 AK Kr1 15.C -50.	4 Aug 11, 2016 000 GHz 71 dBm	Frequency Auto Tu Center Fr 9.00000000 G Start Fr 3.000000000 G Stop Fr 15.00000000 G 1.200000000 G Auto Tu Preq Offs

TX B mode CH01 (10 Harmonic of the frequency)



Agilent Spec	trum Analyzer - Swept									
KL	RF 50 Ω	AC		SEI	NSE:INT		ALIGN AUTO		M Aug 11, 2016	Frequency
0 dB/div	Ref Offset 1 dl Ref 20.00 dl	B Bm						-40.	07 dBm	
°g										Auto Tu
10.0										Center F
1.00										20.750000000 0
										20.100000000
0.0										
0.0										Start F 15.000000000
0.0							İ.		-17.05 dBm	15.000000000
0.0										Stop F
									.1	26.500000000
10.0									<u> </u>	
					الملحان ال		Vinalmonyal	happed the two	and my deputy on a	CF S
	when the state of	Annakanah	n valitation and the	and and an hereby	a supervision of	"My had a day of the	Marrie and	jeni i se		Auto
Mr. with .	and defenses and the		And the second second	1.914 (MI) - 114 - 1						
i0.0										Freq Off
										C
0.0										
tart 15.0	00 CHz							Stop 26	.500 GHz	
Res BW			#VBW	300 kHz			Sweep	1.099 s ((1001 pts)	
G							STATUS			

TX B mode CH06 (10 Harmonic of the frequency)

	ectrum Analyzer - Swe	pt SA								
LXI RL	RF 50 Ω	AC		SEN	NSE:INT		ALIGN AUTO		Aug 11, 2016	Frequency
10 dB/div Log	Ref Offset 1 Ref 20.00	dB dBm					INIK	-50.	6 9 GHz 53 dBm	Auto Tune
10.0										Auto Tune
0.00										Center Freq 1.515000000 GHz
-10.0									-16.85 dBm	Start Freq 30.000000 MHz
-30.0										Stop Freq 3.00000000 GHz
-40.0							أمانيس ا	2 44-16-16-04-14714	hphyl ^c wh _{ad} lylwyd	CF Step 297.000000 MHz <u>Auto</u> Man
-60.0 CMM	pphantanta	ynden John den gerk	alderen in indered	yelMiphely a lty-even	erylythed with	L PUNA AND IN			L et a d'autra	Freq Offset 0 Hz
-70.0										
Start 30 #Res BV	MHz / 100 kHz		#VBW	300 kHz			Sweep 2	Stop 3 83.9 ms (.000 GHz 1001 pts)	
MSG							STATUS			



📕 Agilent Spe 🛿 R L	ectrum Analyzer - Swept RF 50 Ω	AC		CEL			ALLCALALITO	10-55-25 4	M Aug 11, 2016	
KL				SEI	NSE:INT	,			M Aug 11, 2016	Frequency
0 dB/div .og	Ref Offset 1 dE Ref 20.00 dE	3m						-51.	00 dBm	
										Auto T
10.0										
10.0										Center F
0.00										9.000000000
10.0										Start F
									-16.85 dBm	3.000000000
20.0										
										Stop F
30.0										15.000000000
40.0										CFS
									1	1.200000000
50.0		Land March Land	a la li						a and a support of the second	<u>Auto</u>
hornal	rtaby (174h tabyor with the Mar	andr i alafa	www.uvu.vu.uuuuuuuu	Web hill which have	where where where	mathallounder	hitse and the second	MANA ANA ANA ANA ANA ANA ANA ANA ANA ANA	A MAD MARA RAN	
50.0										Freq Of
70.0										
								Stop 15	.000 GHz	
	00 GHz / 100 kHz		#VBW	300 kHz				1.147 s (1001 pts)	
Start 3.00 Res BW			#VBW	300 kHz			Sweep STATUS	1.147 s (
Res BW	ectrum Analyzer - Swept		#VBW				STATUS	1.147 s (1001 pts)	
Res BW	ectrum Analyzer - Swept RF 50 Ω	AC	#VBW			,	STATUS	1.147 s (1001 pts)	Frequency
Res BW	ectrum Analyzer - Swept	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts)	
Res BW	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW			,	STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) M Aug 11, 2016 390 GHz	Frequency
Res BW	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) M Aug 11, 2016 390 GHz	Frequency
Res BW	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW			, , , , , , , , , , , , , , , , , , ,	STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) M Aug 11, 2016 390 GHz	Frequency Auto T
Agilent Spe RL 0 dB/div 0 g	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) M Aug 11, 2016 390 GHz	Frequency Auto T Center F
Agilent Spe RL 0 dB/div 0 g	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) M Aug 11, 2016 390 GHz	Frequency Auto T Center F
Res BW	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) M Aug 11, 2016 390 GHz	Frequency Auto T Center F 20.750000000
Res BW	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) MAUG 11, 2016 190 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F
Res BW G Agilent Spec RL O dB/div O dB/div O dB/div O dB/div	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) M Aug 11, 2016 390 GHz	Frequency Auto T Center F 20.750000000 Start F
Res BW SG Agilent Spe RL O dB/div O	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) MAUG 11, 2016 190 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW sc	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) MAUG 11, 2016 190 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW sc	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	1.147 s (10:55:30 A kr1 24.8	1001 pts) MAUG 11, 2016 190 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW 33 4 Agilent Spe 8 0	ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE	AC	#VBW					1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) M Aug 11, 2016 90 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000
Res BW 33 4 Agilent Spe 8 0	r 100 kHz ectrum Analyzer - Swept Ref 50Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT			1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) MAUG 11, 2016 190 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.00000000 Stop F 26.500000000 CF S 1.150000000
Res BW 33 34 35 36 37 38 39 30 30 30 30 30 30 30	r 100 kHz ectrum Analyzer - Swept Ref 50Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT	A A A A A A A A A A A A A A A A A A A		1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) M Aug 11, 2016 90 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.00000000 Stop F 26.500000000 CF S 1.150000000
Res BW 33 34 35 36 37 38 39 30 30 30 30 30 30	t 100 kHz Ref 50 Ω Ref 0ffset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT			1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) M Aug 11, 2016 90 GHz 49 dBm	Start F 20.750000000 Start F 15.000000000 Stop F 26.500000000 1.150000000 Auto T
Res BW 33 34 35 36 37 38 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	r 100 kHz ectrum Analyzer - Swept Ref 50Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT			1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) M Aug 11, 2016 90 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.150000000 Auto Freq Of
Res BW sci sci agilent Spei	r 100 kHz ectrum Analyzer - Swept Ref 50Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT			1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) M Aug 11, 2016 90 GHz 49 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.150000000 Auto Freq Of
Res BW sci sci agilent Specific	r 100 kHz ectrum Analyzer - Swept Ref 50Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT			1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) M Aug 11, 2016 90 GHz 49 dBm	Frequency Auto Tr Center F 20.750000000 Start F 15.00000000 Stop F 26.500000000 CF S 1.150000000
Res BW SG	r 100 kHz ectrum Analyzer - Swept Ref 50Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT			1.147 s (10:55:30 Al kr1 24.8 -40.	1001 pts) M Aug 11, 2016 90 GHz 49 dBm	Frequency Auto Tr Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.150000000 Auto Freq Off
Res BW S0 Image: Constraint spectrum Image: Constraint spectrum Image: Constrate	r 100 kHz ectrum Analyzer - Swept Ref 50Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF	NSE:INT			1.147 s (10:55:30 A kr1 24.8 -40.	1001 pts) 4 Aug 11, 2016 90 GHz 49 dBm 	Frequency Auto Tr Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.150000000 Auto Freq Off
Res BW 60 1 Agilent Spe 7 8 0	t 100 kHz ectrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC		SEF				1.147 s (10:55:30 A kr1 24.8 -40.	1001 pts) Maug 11, 2016 90 GHz 49 dBm	Frequency Auto Tr Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.150000000 Auto Freq Off



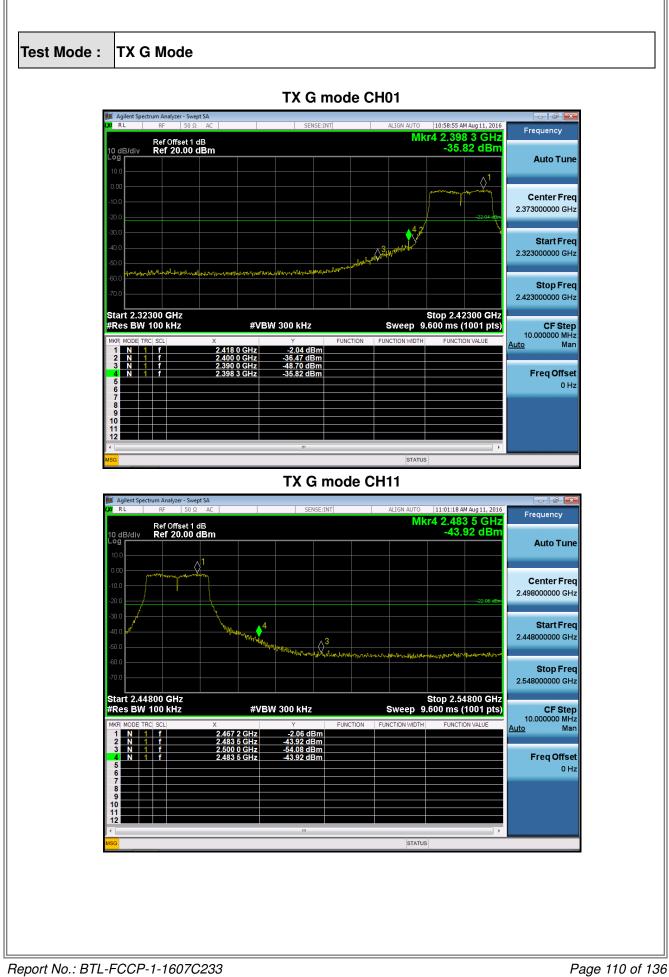
TX B mode CH11 (10 Harmonic of the frequency)



Agilent Sp	ectrum Analyzer - RF	Swept SA 50 Ω AC	1	SEN	NSE:INT		ALIGN AUTO	10:56:50 0	M Aug 11, 2016	
	Ref Offsel	t1dB		SEI	VSE.IIVI			kr1 25.3	04 GHz 14 dBm	Frequency
0 dB/div	Ref 20.0	IO dBm						-39.		Auto Tur
0.00										Center Fr 20.750000000 G
0.0									-16.65 dBm	Start Fr 15.00000000 G
0.0									1	Stop Fr 26.50000000 G
0.0	undreumenter 194	hay and address and the state of the	alatican, an	hall-sand-pais-hand-	Waterpolitication	My Margaret	Amateria Alanda	q.d.lot.e.m.e.del-tool	hanglinisal, dagi	CF St 1.15000000 G <u>Auto</u> M
0.0										Freq Offs 0
	000 GHz							Stop 26	.500 GHz	
Res BV	/ 100 kHz		#VBW	300 kHz			Sweep	1.099 s (1001 pts)	









TX G mode CH01 (10 Harmonic of the frequency)





Agilent Spe	ctrum Analyzer - Sw RF 50	vept SA Ω AC			NSE:INT		ALIGN AUTO	10.59.20 0	4 Aug 11, 2016	
KL				SEI	NDE:1IN1				67 GHz	Frequency
) dB/div	Ref Offset 1 Ref 20.00								56 dBm	
^{og}										Auto Tu
0.0										
0.0										Center Fr
										20.750000000
0.0										Start F
										15.000000000
0.0									-22.20 dBm	
										Stop F
0.0										26.500000000
								↓ ¹		
0.0								u. Millered	hanann	CF S
					AN WAR	huter a land	aller all and a start	WHAT'S TOT	- 10 Feat 1 - 14	1.150000000 (Auto
	nthey have been been been been been been been be	at the state of the second	Multurnalation	h why we have	with Minister	al molitar.				Auto
										Freq Off
0.0										C
0.0										
	000 GHz 100 kHz		#VBM	300 kHz			Sween	Stop 26	.500 GHz 1001 pts)	
G	TOU KHZ		<i>"</i> U D W	500 KHZ			STATUS		roor proj	

TX G mode CH06 (10 Harmonic of the frequency)

🎉 Agilent Spectrum Analyze					- 7 🐱
K RL RF	50 Ω AC	SENSE:INT	ALIGN AUTO	10:59:48 AM Aug 11, 2016	Frequency
Ref Offs 10 dB/div Ref 20	et 1 dB .00 dBm		MK	r2 2.515 9 GHz -50.54 dBm	Auto Tune
0.00				n	Center Freq 1.515000000 GHz
-10.0				-21.54 uBm	Start Freq 30.000000 MHz
-30.0					Stop Freq 3.00000000 GHz
50.0	leidid pygaletonpelilasi-tokalohhitasa	where the start of the strength in the strength in the start of the strength in the strength i	ad have been and the second	2 White Water May Long and	CF Step 297.000000 MHz <u>Auto</u> Man
-60.0	a antered that have a second se				Freq Offset 0 Hz
Start 30 MHz #Res BW 100 kHz	#VBW 300	kHz	Sweep 28	Stop 3.000 GHz 33.9 ms (1001 pts)	



📕 Agilent Spe 🛛 R L	ctrum Analyzer - Swept S RF 50 Ω	AC		SE	NSE:INT		ALIGN AUTO	10:59:53 A	M Aug 11, 2016	
	Ref Offset 1 dB							kr1 14.9	04 GHz	
0 dB/div .og	Ref 20.00 dE	3m						-50.	59 dBm	
°g										Auto T
10.0										
										Center F
0.00										9.000000000
10.0										Start F
										3.00000000
20.0									-21.54 dBm	
										Stop F
:0.0										15.000000000
10.0										CFS
									1	1.200000000
io.o		II. JALA								<u>Auto</u>
wrolla	when the state of	llyddin ar felyn	and the second	the the sector	and the house of	As hand happens	In Annual Marine 10	in-nalisa hila hanin	and address and the	
0.0										Freq Of
0.0										
tart 3.00								Stop 15	.000 GHz	
ומונ ס.טנ								1.147 s ((1001 ptc)	
			#VBW	/ 300 kHz			sweep			
	100 kHz		#VBW	/ 300 kHz			Sweep		roor pisj	
Res BW	100 kHz		#VBW	/ 300 kHz					Toorptsj	
Res BW	100 kHz		#VBW				STATUS			
Res BW	100 kHz ctrum Analyzer - Swept 1 RF 50 Ω	AC	#VBW		NSE:INT		STATUS	10:59:58 A	M Aug 11, 2016	Fraguana
Res BW	100 kHz	AC	#VBW				STATUS	10:59:58 A	M Aug 11, 2016	Frequency
Res BW	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency
Res BW Agilent Spe RL OdB/div	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency
Res BW Agilent Spe RL OdB/div	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T
Res BW Agilent Spe RL O dB/div O dB/div	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F
Res BW Agilent Spe RL O dB/div O dB/div	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center I
Res BW	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F
Res BW	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBW				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F 20.750000000 Start F
Res BW Agilent Spec RL O dB/div O 0 O 0 O 0 O 0 O 0 O 0 O 0 O	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F 20.750000000 Start F
Res BW Galent Spe RL Galent Sp	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F 20.750000000 Start F
Res BW a a c Agilent Spe c R L b c Agilent Spe c Agilent Agilent Spe c Agilent Agilent Agilent Agilent Agilent	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW 30 Image: Constraint state sta	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW 30 C Agilent Spe RL 0 dB/div 0 dB/div 0 0	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM				STATUS	10:59:58 A	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW sa Sa Cagilent Spe RL D dB/div O O D dB/div O O Sa	100 kHz ctrum Analyzer - Swept 3 RF 50 Ω Ref Offset 1 dE	AC	#VBM		NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 385 GHZ	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000
Res BW Galaxie (Agilent Spe RL 0 dB/div 0 g 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	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Frequency Auto T Center F 20.750000000 Start F 15.00000000 Stop F 26.500000000
Res BW Galaxie (Agilent Spe RL 0 dB/div 0 g 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	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000
Res BW G 4 Agilent Spe RL 0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 Auto
Res BW G 4 Agilent Spe RL 0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW 6 Agilent Spe RL 0 RL 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW 60 6 7 8 8 9 10.0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Start F 20.750000000 Start F 15.00000000 Stop F 26.50000000 Stop F 1.150000000
Res BW sci Agilent Speid RL Image: Speid science sci	100 kHz ctrum Analyzer - Swept 1 RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT		STATUS	10:59:58 A kr1 25.3 -40.	M Aug 11, 2016 385 GHz 18 dBm 	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW 60 6 7 8 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 <	100 kHz ctrum Analyzer - Swept 1 RF 50 Ω Ref Offset 1 dE Ref 20.00 dE	AC S			NSE:INT			10:59-58 A kr1 25.3 -40.	M Aug 11, 2016 85 GHz 18 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of



TX G mode CH11 (10 Harmonic of the frequency)



Agilent Spectrum Analyzer - Sw RL RF 50 9		SENSE:INT	ALIGN AUTO	11:01:03 AM Aug 11, 2016	
Ref Offset 1 dB/div Ref 20.00				1 26.362 GHz -39.90 dBm	Frequency
g					Auto Tur
.00					Center Fre 20.750000000 Gi
0.0				-21:74 dBm	Start Fr 15.000000000 G
0.0				1	Stop Fr 26.50000000 G
D.O	onto ballation and the state of balland my	waytopen how with a way to be a way to	ally high which which and	_{เขา} การการการการการการการการการการการการการก	CF St 1.15000000 G <u>Auto</u> M
0.0					Freq Offs 0
tart 15.000 GHz Res BW 100 kHz	#VBW 3		Sweep 1.	top 26.500 GHz 099 s (1001 pts)	









TX HT20 mode CH01 (10 Harmonic of the frequency)



RL	trum Analyzer - Sw RF 50 :			SEN	NSE:INT		ALIGN AUTO	11:02:30 AF	M Aug 11, 2016	e e
	Ref Offset 1 Ref 20.00	dB						(r1 26.4	43 GHz 57 dBm	Frequency
^{o dB/div}	Ref 20.00	aBm						-40.		Auto Tui
10.0 										Center Fr 20.750000000 G
20.0									-21.91 dBm	Start Fr 15.00000000 G
30.0									1.	Stop F 26.500000000
ю.о 	rth.,	phonetecture	ta laporal apresida	y.hopher-hostopy.hov	yan ^{t ya} llihasahe	Hunderstephend	belikuteretterikit	JANHA WARANYA	ensettypelfelenettyl	CF St 1.150000000 (<u>Auto</u>
0.0										Freq Off C
70.0	00 GHz							Stop 26	.500 GHz	
	100 kHz		#VBW	300 kHz			Sweep	1.099 s (1001 pts)	

TX HT20 mode CH06 (10 Harmonic of the frequency)

Aq	ilent Spec	trum Ana	lyzer - Swep	t SA							-	
LXI R		RF	50 Ω			SEN	ISE:INT		ALIGN AUTO		4 Aug 11, 2016	Frequency
		RefC)ffset1d	в					Mk		3 7 GHz	Frequency
10 di	3/div	Ref	20.00 d	Вm						-51.	48 dBm	
Log												Auto Tune
10.0	<u> </u>											
												Center Freq
0.00												1.515000000 GHz
0.00										n		
										ŕ		
-10.0												Start Freq
												30.000000 MHz
-20.0											-21.99 dBm	
												Stop Freq
-30.0												3.000000000 GHz
) la		
-40.0										<u>}</u>		OF Otom
												CF Step 297.000000 MHz
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-60.0	Ministria	····	1 - 51 - 57									Freq Offset
												0 Hz
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Star	t 30 N	IH7								Stop 3	.000 GHz	
#Re	sBW	100 k	Hz		#VBW	300 kHz			Sweep 2	83.9 ms (1001 pts)	
MSG									STATUS			
	-	_							014103			



Agilent Spe	ctrum Analyzer - Swept RF 50 Ω	AC		SEN	NSE:INT		ALIGN AUTO	11:03:40 A	M Aug 11, 2016	
	Ref Offset 1 di		I					kr1 14.9	88 GHz	Frequency
0 dB/div	Ref 20.00 d							-51.	02 dBm	
^{og}										Auto T
10.0										
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10.0										
10.0										Start F 3.000000000
20.0										3.000000000
.0.0									-21.99 dBm	
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70.0										
tart 3.00									.000 GHz	
			41/014	2000 1/11-						
	100 kHz		#VBW	300 kHz					1001 pts)	
			#VBW	300 kHz			SWEED		noon pisj	
Res BW	100 kHz ctrum Analyzer - Swept		#VBW				STATUS			
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω	AC	#VBW		NSE:INT		STATUS	11:03:45 A	M Aug 11, 2016	
Res BW	100 kHz ctrum Analyzer - Swept	AC	#VBW				STATUS	11:03:45 A		
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency Auto T
Res BW Agilent Spe RL 0 dB/div 0 dB/div	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency Auto T Center F
Res BW Agilent Spe RL 0 dB/div 0 dB/div	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency Auto T Center I
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency Auto T Center F
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency Auto T Center F 20.750000000 Start F
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	Mag 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	M Aug 11, 2016	Frequency Auto T Center F 20.750000000 Start F
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	Mag 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A	Mag 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW				STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl	AC	#VBW		NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	Mag 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.75000000 Start F 15.000000000 Stop F 26.500000000
Res BW IG Agilent Spe RL O dB/div O O IO	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 33 38m		SEP	NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.00000000 Stop F 26.500000000
Res BW IG Agilent Spe RL O dB/div O O IO	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 di Ref 20.00 di	AC		SEP	NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.00000000 Stop F 26.500000000
Res BW IC Agilent Spe IC	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 33 38m		SEP	NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.00000000 Stop F 26.500000000 CF S 1.150000000 Auto
Res BW 33 34 35 36 37 38 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 33 38m		SEP	NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 Auto Freq Of
Res BW 33 34 35 36 37 38 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 33 38m		SEP	NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW 33 34 35 36 37 38 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 33 38m		SEP	NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 33 38m		SEP	NSE:INT		STATUS	11:03:45 A/ kr1 24.7 -39.	M Aug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 L1500000000 Auto Freq Of
Res BW 33 34 35 36 37 38 39 39 30 310 32 33 34 35 30	100 kHz ctrum Analyzer - Swept Ref 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 33 38m						11:03:45 AI kr1 24.7 -39.	MAUg 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 L1500000000 Auto Freq Of
Res BW aa	100 kHz ctrum Analyzer - Swept Ref Offset 1 dl Ref 20.00 dl	AC 33 38m		SEP				11:03:45 AI kr1 24.7 -39.	Maug 11, 2016 87 GHz 66 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stor F 26.500000000 CF S 1.150000000 Auto T Creater F 20.750000000 Stor F 1.150000000 Auto



TX HT20 mode CH11 (10 Harmonic of the frequency)



RL		Analyzer - Swep F 50 Ω			SEN	NSE:INT		ALIGN AUTO	11:06:09 A	4 Aug 11, 2016	
0 dB/di		f Offset 1 c ef 20.00 c						M	kr1 24.9 -39.	25 GHz 42 dBm	Frequency
og _											Auto Tu
0.00											Center Fr 20.750000000 G
0.0										-21.16 dBm	Start Fr 15.000000000 G
0.0									1		Stop Fr 26.50000000 G
0.0	~ <u>~~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ever with the	Huyna dina taka	u	antatilis silverybild	Mananhidi	Mirabapatah	n Hayalayun It	Normannan	halayinda	CF St 1.15000000 G <u>Auto</u> M
0.0	. IOA 94 - Iodi -		Aunal - Li Andre	fedfrat Lore of	an di se di se se s						Freq Offs 0
0.0											
	5.000 (W 100			#VBW	300 kHz			Sweep	Stop 26 1.099 s (.500 GHz 1001 pts)	







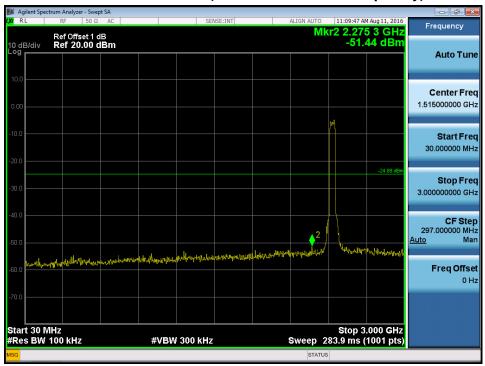


TX HT40 mode CH03 (10 Harmonic of the frequency)





TX HT40 mode CH06 (10 Harmonic of the frequency)





Agilent Spec	ctrum Analyzer - Swept RF 50 Ω	AC		SEI	NSE:INT		ALIGN AUTO	11:09:52 A	M Aug 11, 2016	
	Ref Offset 1 d	4						kr1 14.9	88 GHz	Frequency
0 dB/div	Ref 20.00 dl							-51.	52 dBm	
°g										Auto T
10.0										
10.0										Center F
0.00										9.000000000
0.00										
10.0										
10.0										Start F 3.000000000
20.0										3.000000000
									-24.89 dBm	
30.0										Stop F
										15.00000000
10.0										
										CF S 1.200000000
50.0										Auto
working	Horas and provided and	ulmahray as		how an and here the		klapsialistiksionippenil	new rither the	har way will be the	+hurod-while-h	
50.0	a rollinger in			e e e e e e e e e e e e e e e e e e e	alter Lite estadadat.	1 had a find a				Freq Of
70.0										
								-		
									.000 GHz	
tart 3.00 Res BW			#VBW	300 kHz			Sween	1.147 s (
	0 GHz 100 kHz		#VBW	300 kHz				· · · · · · · · · · · · · · · · · · ·	(1001 pts)	
			#VBW	300 kHz			Sweep	· · · · · · · · · · · · · · · · · · ·		
Res BW	100 kHz		#VBW				STATUS		(1001 pts)	
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω	AC	#VBW		NSE:INT		STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	
Res BW	100 kHz	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016	Frequency
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency
Res BW Agilent Sper RL 0 dB/div	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW			,	STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency
Res BW Agilent Sper RL 0 dB/div	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW			, , , , , , , , , , , , , , , , , , ,	STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency Auto T
Res BW Agilent Spec RL 0 dB/div 0 dB/div	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency Auto T Center F
Res BW Agilent Spec RL 0 dB/div 0 dB/div	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency Auto T Center F
Res BW	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency Auto T Center F 20.750000000
Res BW G Agilent Spec RL O dB/div O dB/div O dB/div	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency Auto T Center F 20.750000000 Start F
Res BW Gallent Speece	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency Auto T Center F 20.750000000 Start F
Res BW Galacian Spec C Agilent Spec C Agilent Spec C RL C O dB/div O 0 dB/div O 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) M Aug 11, 2016 672 GHz	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW 3G I Agilent Spec RL RL O dB/div O O dB/div O 0.00 0.00 0.00 0.00	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) Maug 11, 2016 72 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW 3G I Agilent Spec RL RL O dB/div O O dB/div O 0.00 0.00 0.00 0.00	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 A	(1001 pts) Maug 11, 2016 72 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000
Res BW 3G 3G 1 Agilent Spec RL RL 0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW				STATUS	11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000
Res BW 3G 3G 1 Agilent Spec RL RL 0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC	#VBW		NSE:INT		STATUS	11:09:57 A	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000
Res BW 3G 1 Agilent Spec RL 0	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dB	AC 3 Bm		SE	NSE:INT		STATUS	11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000
Res BW 3G 1 Agilent Spec RL 0	100 kHz RF 50 Ω Ref Offset 1 di Ref 20.00 di	AC	#VBW		NSE:INT		STATUS	11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000
Res BW 3G 3G 10.0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	100 kHz RF 50 Ω Ref Offset 1 di Ref 20.00 di	AC 3 Bm		SE	NSE:INT		STATUS	11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.150000000 Auto
Res BW 3G 3G 10.0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	100 kHz RF 50 Ω Ref Offset 1 di Ref 20.00 di	AC 3 Bm		SE	NSE:INT		STATUS	11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW sci	100 kHz RF 50 Ω Ref Offset 1 di Ref 20.00 di	AC 3 Bm		SE	NSE:INT		STATUS	11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Auto Freq Of
Res BW SG I Agilent Spec R L R L O dB/div O dB/div 0 0	100 kHz RF 50 Ω Ref Offset 1 di Ref 20.00 di	AC 3 Bm		SE	NSE:INT		STATUS	11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 L1500000000 Auto Freq Of
Res BW S0 Image: Constraint Spectrum Image: Constraint Spectrum Image: Constrate	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 3 Bm		SE	NSE:INT		STATUS	11:09-57 Al Kr1 25.6 -40.	(1001 pts)	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 L1500000000 Auto Freq Of
Res BW 30 40 30 30 31 32 33 34 35 36 37 38 39 30	100 kHz ctrum Analyzer - Swept RF 50 Ω Ref Offset 1 dl Ref 20.00 dl	AC 3 Bm	at at start as	SE				11:09:57 Al kr1 25.6 -40.	(1001 pts) Maug 11, 2016 572 GHz 36 dBm	Frequency Auto T Center F 20.750000000 Start F 15.000000000 Stop F 26.500000000 CF S 1.1500000000 Freq Of



TX HT40 mode CH09 (10 Harmonic of the frequency)



Agilent	t Spectrum A	nalyzer - Swep			SEN	NSE:INT		ALIGN AUTO	11:11:04 A	4 Aug 11, 2016	
0 dB/d		Offset 1 c f 20.00 c						M	kr1 25.2	93 GHz 19 dBm	Frequency
°g											Auto Tur
10.0											Center Fre 20.750000000 GH
0.0											Start Fr 15.000000000 G
0.0										-25.70 dBm	Stop Fr 26.500000000 G
0.0	Maxing the state	here and	Mertification of the second	,-hwalthattprace	halfalan	white the states	Worldward	Whangehald	havelownhillfor	hlprydan o	CF Sto 1.150000000 G <u>Auto</u> M
0.0											Freq Offs 0
0.0	5.000 G	Hz							Stop 26	.500 GHz	
	3W 100			#VBW	300 kHz			Sweep	1.099 s (1001 pts)	



ATTACHMENT H - POWER SPECTRAL DENSITY





Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-17.20	0.0191	8.00	Complies
2437	-16.93	0.0203	8.00	Complies
2462	-16.99	0.0200	8.00	Complies







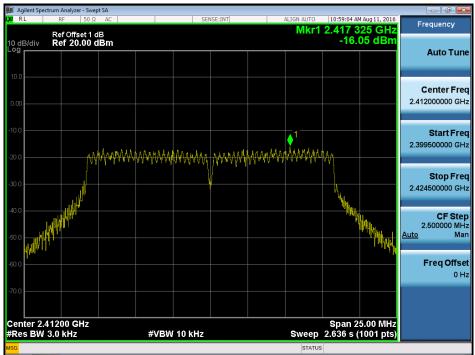






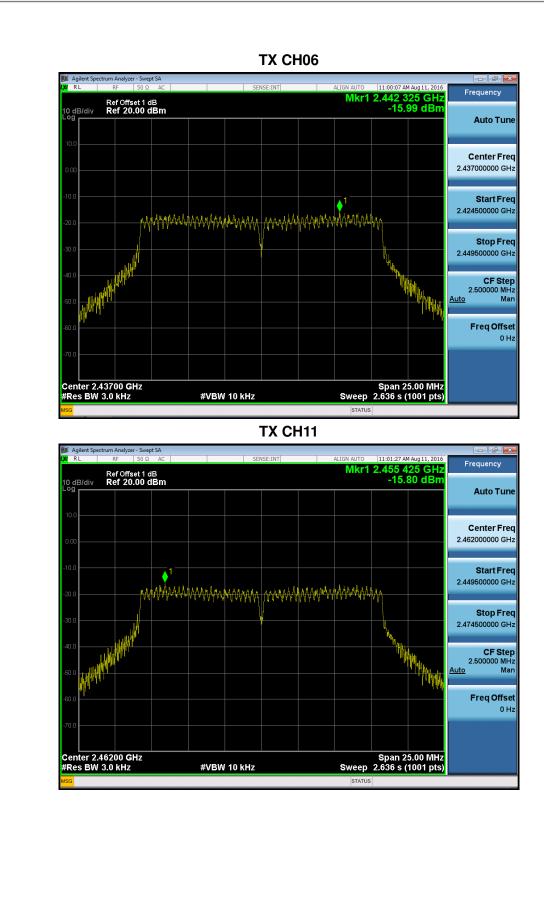
Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.05	0.0248	8.00	Complies
2437	-15.99	0.0252	8.00	Complies
2462	-15.80	0.0263	8.00	Complies







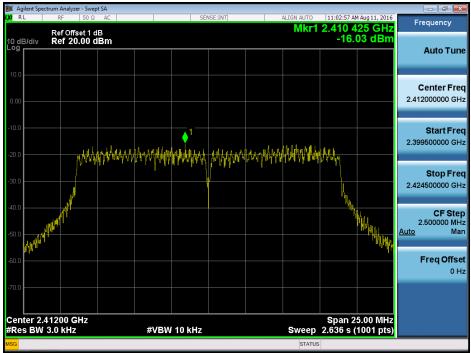






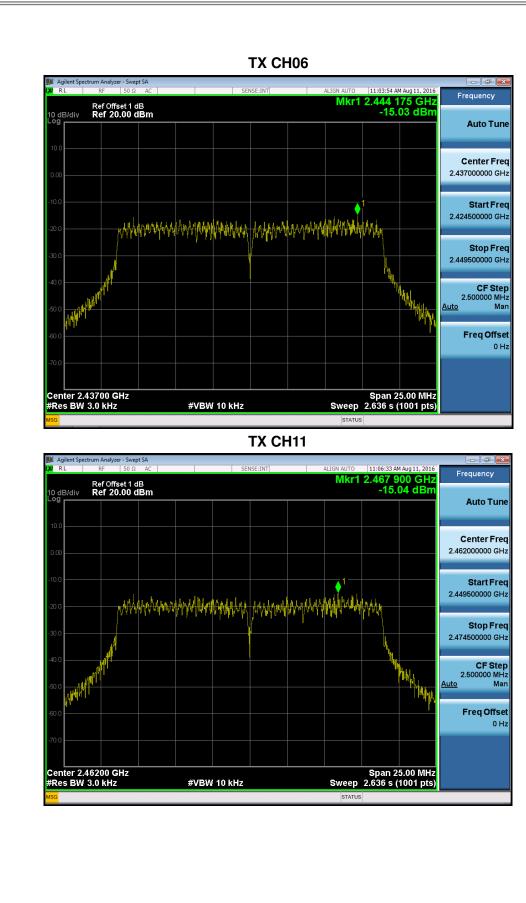
Test Mode : TX N-20M Mode_CH01/06/11 Frequency Power Density Max. Limit

(MHz)	(dBm/3kHz)	(mW/3kHz)	(dBm/3kHz)	Result
2412	-16.03	0.0249	8.00	Complies
2437	-15.03	0.0314	8.00	Complies
2462	-15.04	0.0313	8.00	Complies













Test Mode : TX N-40M Mode_CH03/06/09 Frequency **Power Density Power Density** Max. Limit Result (dBm/3kHz) (mW/3kHz) (dBm/3kHz) (MHz) 2422 -19.10 0.0123 8.00 Complies 2437 -19.02 0.0125 8.00 Complies 2452 -18.23 0.0150 8.00 Complies

