

 Report No.: GZEM120800346701

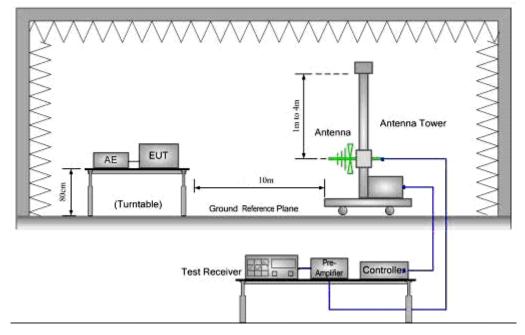
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7.2.4 Radiated Spurious Emissions

Test Date:	2012-08-29
Test Requirement:	FCC part 24.238(a) & FCC part 27.53(h)
	24.238(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
	27.53(h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dB.
Test Method:	FCC part 2.1053
	ANSI/TIA-603-C-2004
EUT Operation:	
Status:	Drive the EUT to maximum output power.
Conditions:	Normal conditions
Application:	Enclosure
Test Configuration:	

30MHz to 1GHz emissions:

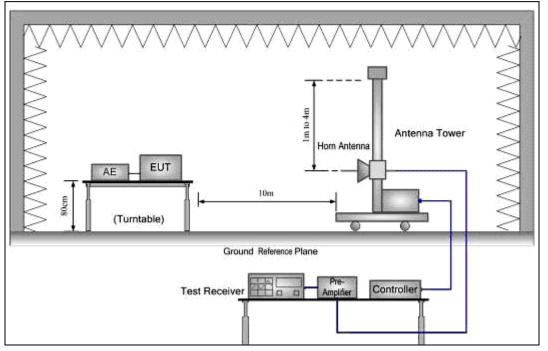


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1GHz to 40GHz emissions:



Test Procedure:

1. Test the background noise level with all the test facilities;

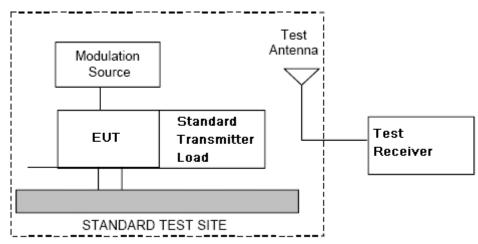
2. Keep one transmitting path, all other connectors shall be connected by normal power or RF leads;

3. Select the suitable RF notch filter to avoid the test receiver or spectrum analyzer produce unwanted spurious emissions;

4. Keep the EUT continuously transmitting in max power;

5. Read the radiated emissioins of the EUT enclosure.

Radiated Emissions Test Procedure:





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- a) Connect the equipment as illustrated.
- b) Adjust the spectrum analyzer for the following settings:

1) Resolution Bandwidth = 100 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.

2) Video Bandwidth = 300 kHz for spurious emissions below 1 GHz, and 3 MHz for spurious emissions above 1 GHz.

3) Sweep Speed slow enough to maintain measurement calibration.

4) Detector Mode = Positive Peak.

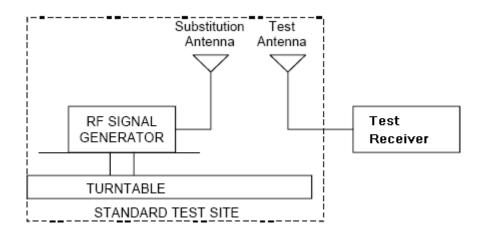
c) Place the transmitter to be tested on the turntable in the standard test site. The transmitter is transmitting into a nonradiating load that is placed on the turntable. The RF cable to this load should be of minimum length.

d) Measurements shall be made from30MHz to 10 tims of fundamental carrier, except for the region close to the carrier equal to ± the carrier bandwidth.

e) Key the transmitter without modulation or normal modulation base the standard.

f) For each spurious frequency, raise and lower the test antenna from 1 m to 4 m to obtain a maximum reading on the spectrum analyzer with the test antenna at horizontal polarity. Then the turntable should be rotated 360° to determine the maximum reading. Repeat this procedure to obtain the highest possible reading. Record this maximum reading.

g) Repeat step f) for each spurious frequency with the test antenna polarized vertically.





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h) Reconnect the equipment as illustrated.

i) Keep the spectrum analyzer adjusted as in step b).

j) Remove the transmitter and replace it with a substitution antenna (the antenna should be halfwavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At the lower frequencies, where

the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.

k) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to

obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

I) Repeat step k) with both antennas vertically polarized for each spurious frequency.

m) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps k) and l) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole

antenna by the following formula:

Pd(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dB)

where:

Pd is the dipole equivalent power and

Pg is the generator output power into the substitution antenna.

NOTE: It is permissible to use other antennas provided they can be referenced to a dipole. NOTE: Effective radiated power (e.r.p) refers to the radiation of a half wave tuned dipole instead of an isotropic antenna. There is a constant difference of 2.15 dB between e.i.r.p. and e.r.p. e.r.p (dBm) = e.i.r.p. (dBm) - 2.15



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7.2.4.1 Measurement Record:

No emissions were detected within 20dB below the limit for the Downlink direction.

Remark:

The cabinet radiation was measured with the equipment transmitting a CW signal into a non-radiating 50 Ohm load at maximum output power on a signal frequency .

Measured were performed in the lowest, middle and hightest frequency for the Downlink.

The spectrum was searched from 30MHz to 26GHz (10th Harmonic) for downlink;



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7.2.5 Occupied Bandwidth

Test Date:	2012-08-20 to 2012-08-27
Test Requirement:	2-11-04/EAB/RF
Test Method:	FCC part 2.1049, 2-11-04/EAB/RF
	The spectral shape of the output should look similar to input for all modulations.
EUT Operation:	

Status: Conditions: Application:

Drive the EUT to maximum output power. . Normal conditions Cellular Band RF output ports

Test Configuration:

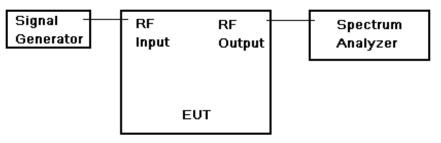


Fig.2. Conducted Spurious Emissions test configuration

Test Procedure:

- a) Set the spectrum analyzer RBW 300 Hz or >1%&<2% emission bandwidth of carrier.
- b) Capture the trace of input signal;
- c) Connect the equipment as illustrated;
- d) Capture the trace of output signal;



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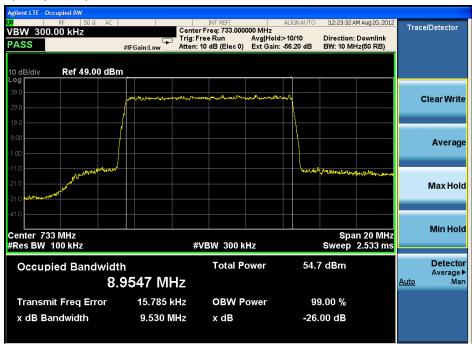
7.2.5.1 Measurement Record:

1.Downlink:728MHz to 757MHz(LTE mode)

1.1 lowest frequency -- Input

μ		SENSE:INT	ALIGNAUTO	11:24:15 PM Aug 27, 201	2
PASS	Trig: F	rFreq:733.000000 M reeRun Av 10 dB (Elec 0)	/Hz g Hold:>10/10	Direction: Downlink BW: 10 MHz(50 RB)	Save
					State►
10 dB/div Ref -8.00 dBm Log					
-18.0		manhan	a service A		
-28.0					
-38.0	/				
-48.0					
-58.0					
-68.0					
					Data
-78.0			human	and man man man	(Export) ► Trace
-88.0					Trace
-98.0					Screen
Center 733 MHz #Res BW 100 kHz	#	VBW 300 kHz		Span 20 MH Sweep 2.533 m	Image
Occupied Bandwidt	h	Total Powe	er -2.2	ō dBm	
8.	9670 MHz				
Transmit Freq Error	10.018 kHz	OBW Powe	er 99	9.00 %	
x dB Bandwidth	9.575 MHz	x dB	-26.	00 d B	

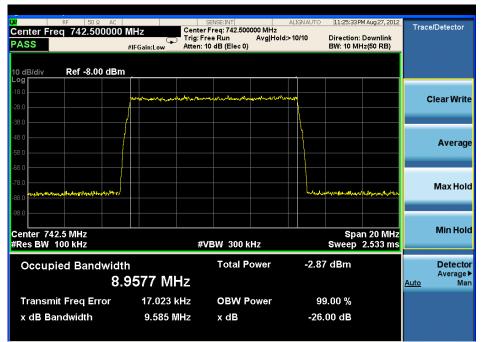
1.2 lowest frequency-- Output



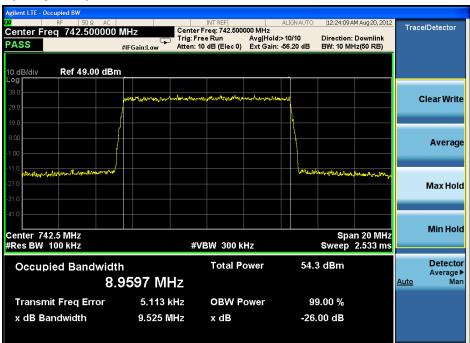


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1.3 middle frequency-- Input



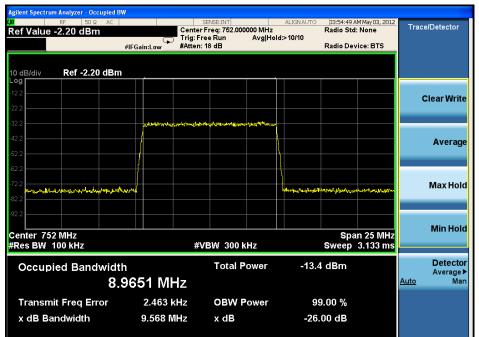
1.4 middle frequency-- Output





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1.5 highest frequency-Input



1.6 highest frequency--Output



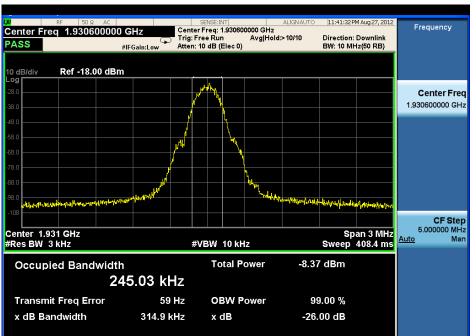


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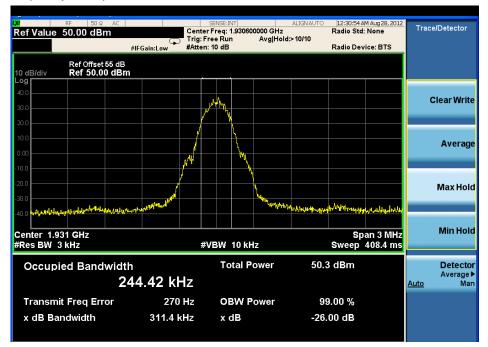
2.Downlink: 1930MHz to 1995MHz(GSM,CDMA,WCDMA,LTE)

2.1 GSM Mode:

2.1.1 lowest frequency- Input



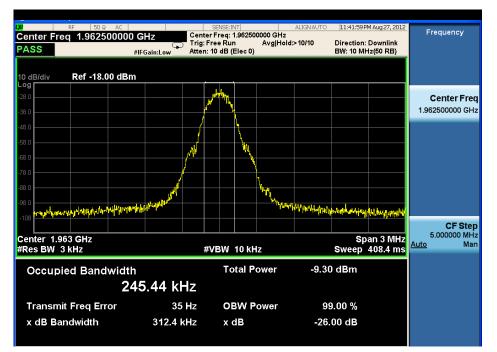
2.1.2 lowest frequency-- Output



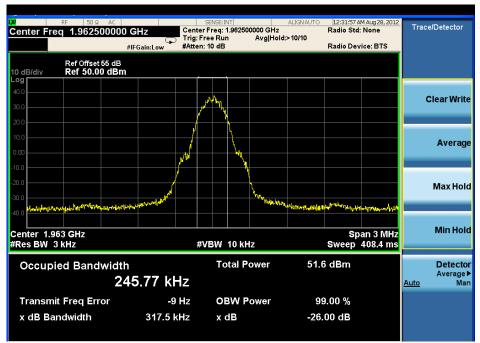


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2.1.3 middle frequency-- Input



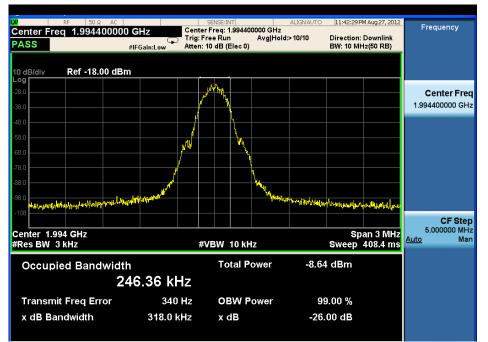
2.1.4 middle frequency-- Output



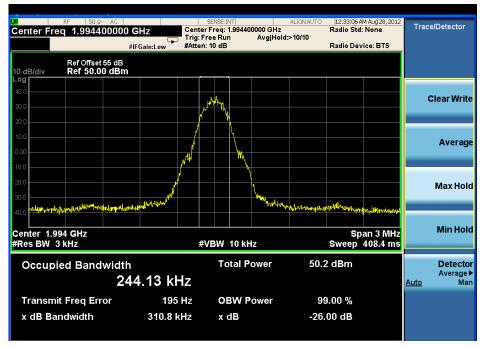


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2.1.5 highest frequency-Input



2.1.6 highest frequency--Output

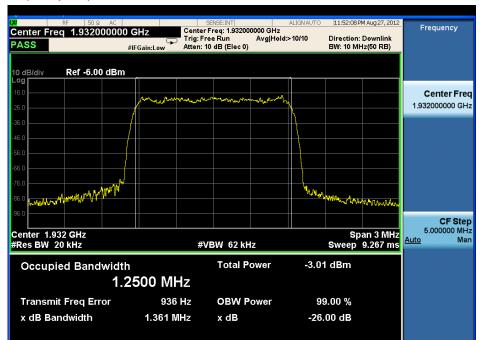




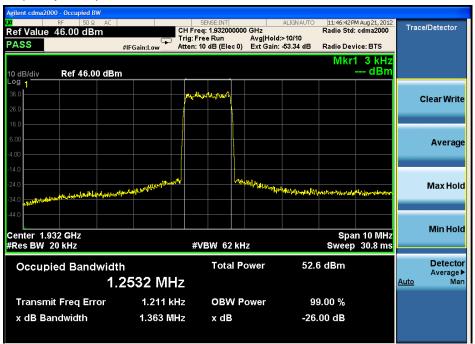
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2.2 CDMA Mode:

2.2.1 lowest frequency- Input



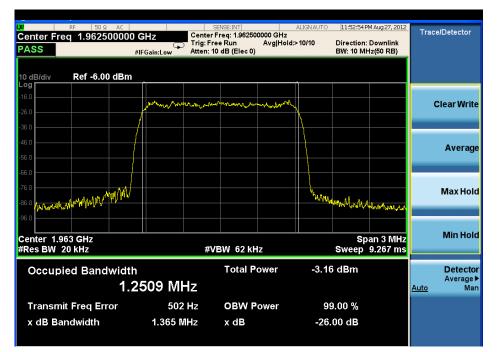
2.2.2 lowest frequency-- Output





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2.2.3 middle frequency-- Input



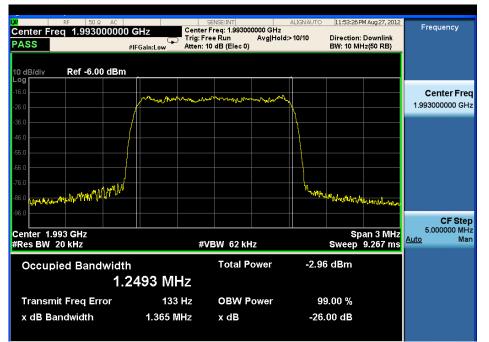
2.2.4 middle frequency-- Output



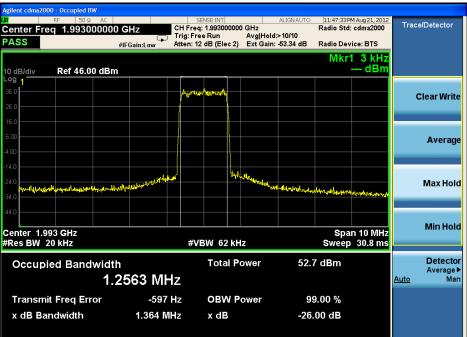


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2.2.5 highest frequency-Input



^{2.2.6} highest frequency--Output

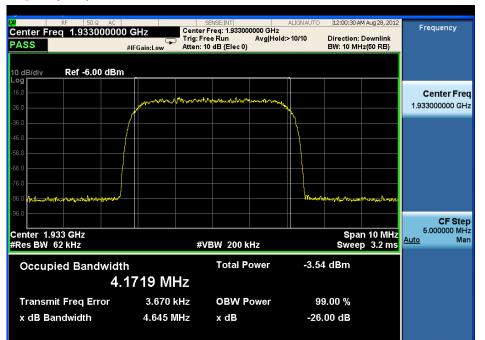




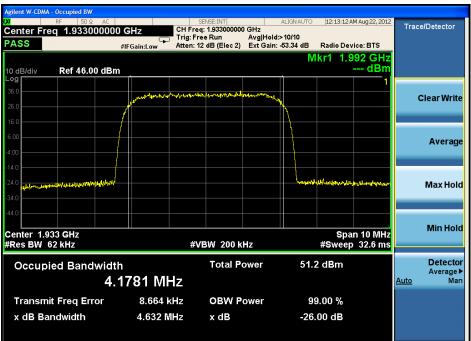
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2.3 WCDMA Mode:

2.3.1 lowest frequency- Input



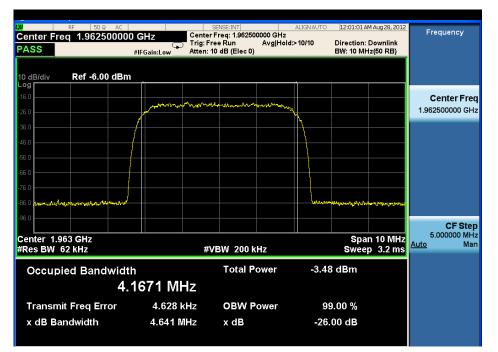
2.3.2 lowest frequency-- Output



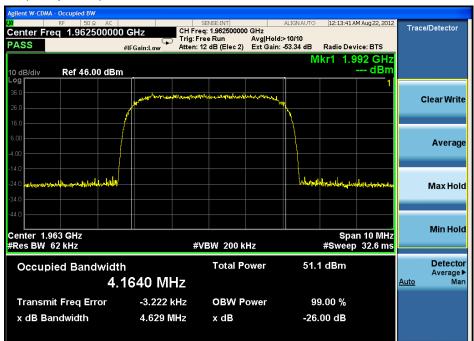


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2.3.3 middle frequency-- Input



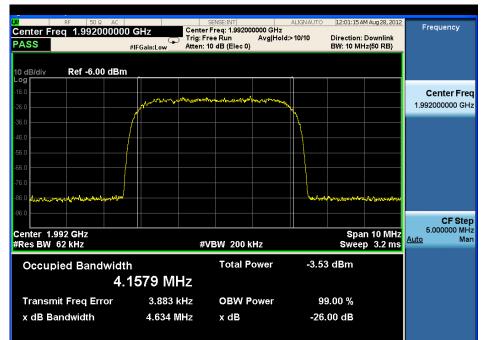
2.3.4 middle frequency-- Output



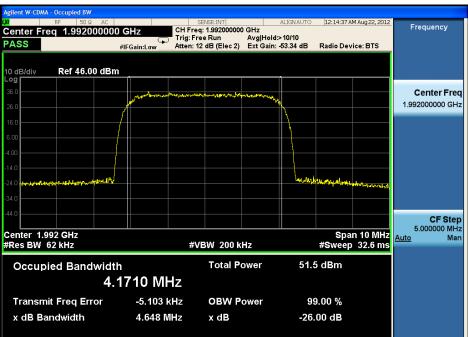


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2.3.5 highest frequency-Input



2.3.6 highest frequency--Output

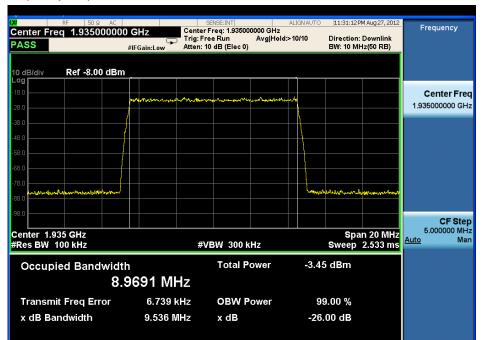




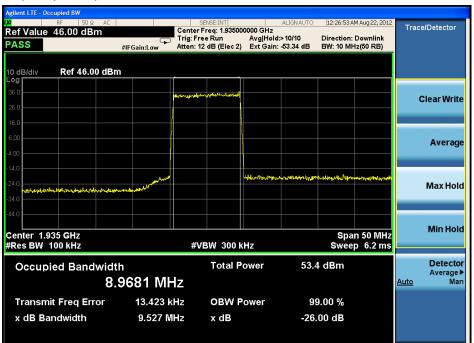
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2.4 LTE Mode:

2.4.1 lowest frequency- Input



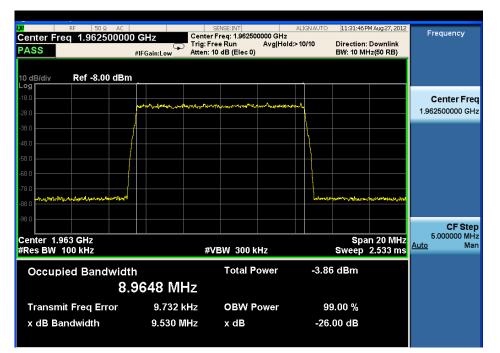
2.4.2 lowest frequency-- Output





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2.4.3 middle frequency-- Input



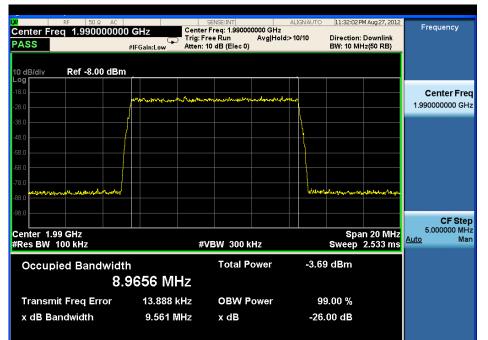
2.4.4 middle frequency-- Output

Agilent	LTE - Occupied BW					
LXI		AC	SENSE:INT Center Freg: 1.96250	ALIGN AUT	 12:27:26 AM Aug 22, 2012 	Trace/Detector
PAS	er Freq 1.96250 S	#IFGain:Low	Trig: Free Run	Avg Hold:>10/10 Ext Gain: -53.34 dB	Direction: Downlink BW: 10 MHz(50 RB)	
10 dB Log F	div Ref 46.00	dBm				
36.0 -			helpenson and the Markow of			Clear Write
26.0						
6.00						Average
-4.00						
-14.0 -24.0	were and water a state of the	ephysyspheric Ambaserius m		millionspallingungungu	alantan milang ng Arad	Max Hold
-34.0						
					0	Min Hold
	er 1.963 GHz BW 100 kHz		#VBW 3001	(Hz	Span 50 MHz Sweep 6.2 ms	
Oc	cupied Bandv		Total P	ower 53	3.1 dBm	Detector Average ►
		8.9832 MF	z			<u>Auto</u> Man
Tra	ansmit Freq Erro	or -2.069 k	Hz OBW F	Power	99.00 %	
хс	IB Bandwidth	9.555 M	lHz xdB	-2	6.00 dB	



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2.4.5 highest frequency-Input



2.4.6 highest frequency--Output

Agilent LTE - Occupie M RF Center Freq	50Ω AC	0 GHz	Center Fr	NSE:INT		ALIGN AUTO	12:27:44 A	M Aug 22, 2012	Trace	e/Detector
PASS		#IFGain:Low	Trig: Free Atten: 12	dB (Elec 2)	Avg Hold Ext Gain:		BW: 10 M			
10 dB/div R	ef 46.00 dBi	n								
36.0 26.0			antradan	~~~~~					c	Clear Write
16.00 -4.00										Average
-14.0 -24.0	endenses-lisere assiste	hin all an			en-rangial reaction	former for the state	ያችለም መንድም የሚያስለ ምም	i an man		Max Hold
-44.0			-43.70					n 50 MHz		Min Hold
#Res BW 100 Occupied	Bandwid	th 9697 MF		Total Po		52.7	dBm	p 6.2 ms	<u>Auto</u>	Detector Average ► Man
Transmit Fi	reg Error	-2.713 k	Hz	OBW P	ower	99	0.00 %			
x dB Bandv		9.524 M		x dB			00 dB			



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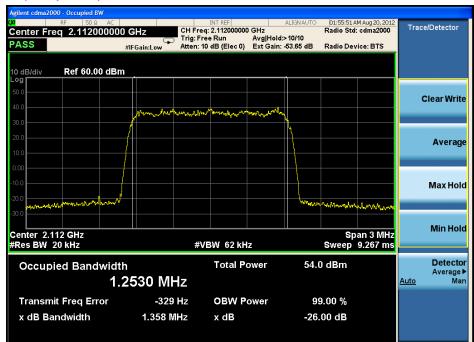
3.Downlink: 2110MHz to 2155MHz(CDMA,WCDMA,LTE)

3.1 CDMA Mode:

3.1.1 lowest frequency- Input



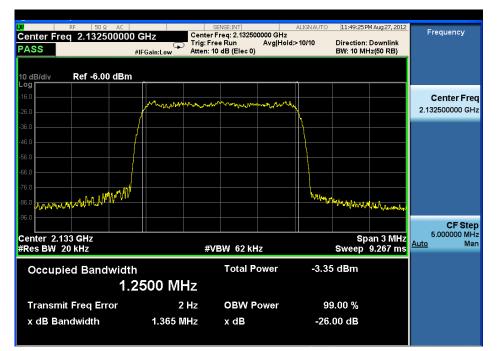
3.1.2 lowest frequency-- Output



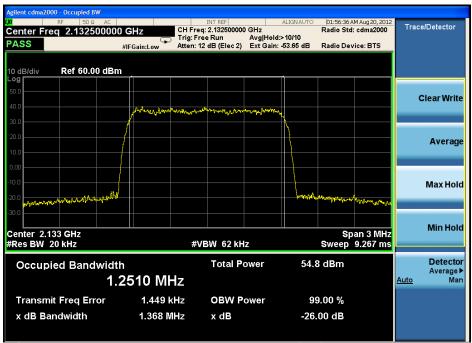


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3.1.3 middle frequency-- Input



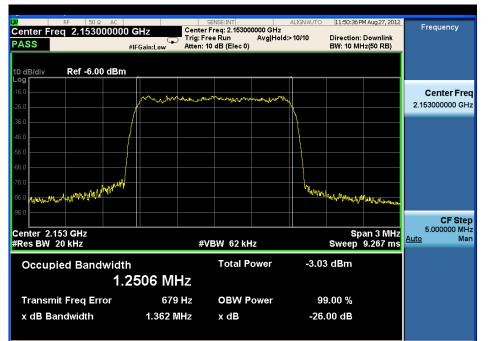
^{3.1.4} middle frequency-- Output





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3.1.5 highest frequency-Input



3.1.6 highest frequency--Output

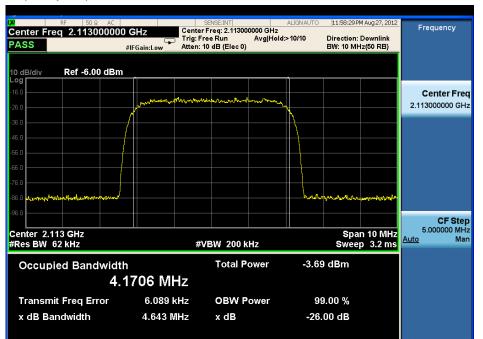




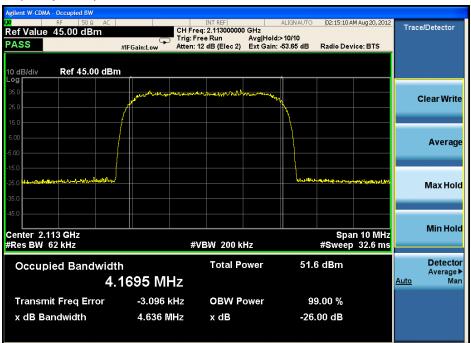
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3.2 WCDMA Mode:

3.2.1 lowest frequency- Input



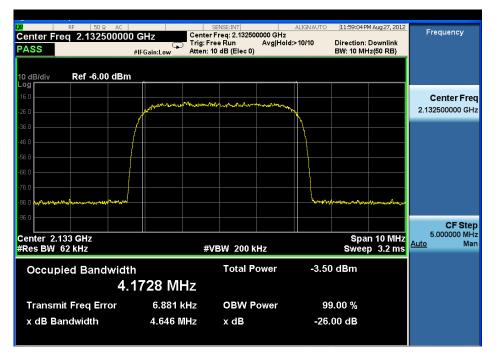
3.2.2 lowest frequency-- Output



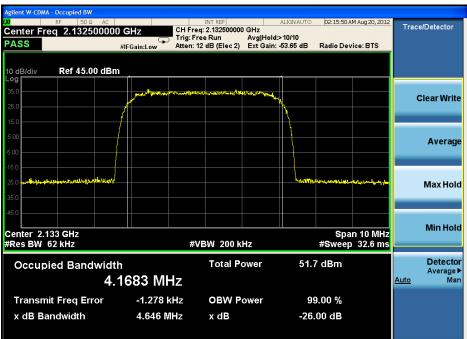


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3.2.3 middle frequency-- Input



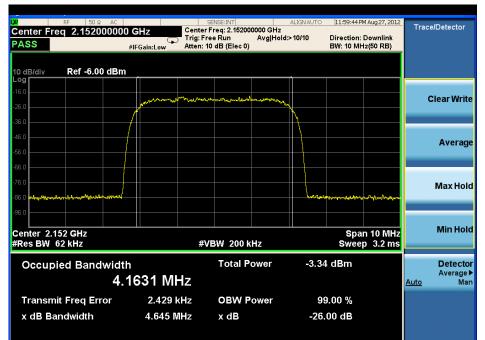
3.2.4 middle frequency-- Output



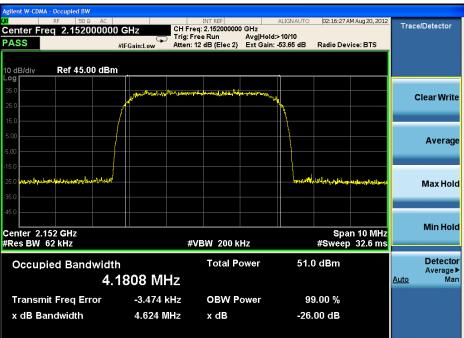


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3.2.5 highest frequency-Input



^{3.2.6} highest frequency--Output

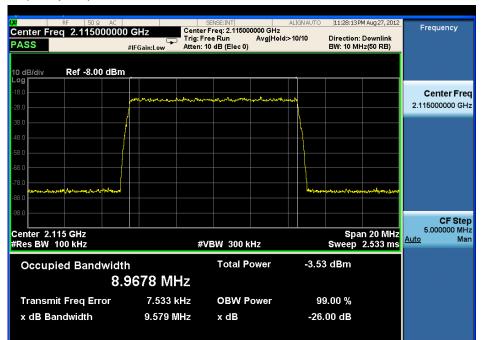




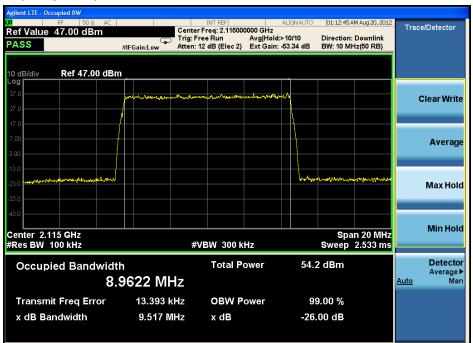
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3.3 LTEMode:

3.3.1 lowest frequency- Input



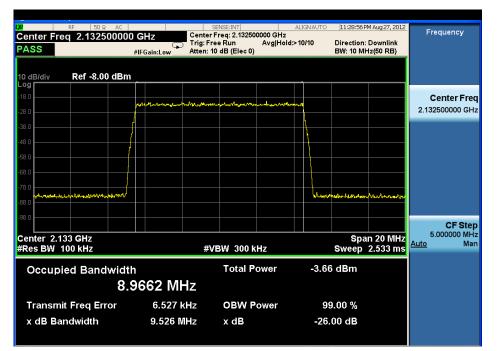
3.3.2 lowest frequency-- Output





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3.3.3 middle frequency-- Input



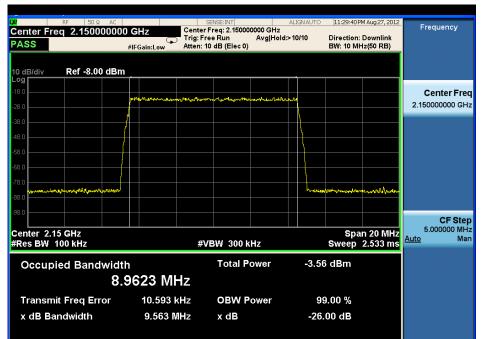
^{3.3.4} middle frequency-- Output

Agilent LTE - Occupied BW							
Center Freq 2.13250000		INT REF ter Freq: 2.132500000 G			M Aug 20, 2012	Trace	Detector
PASS	Trig	:FreeRun Avg l n:12 dB (Elec 2) Ext 0	Hold:>10/10 Sain: -53.34 dB	Direction: BW: 10 MF			
	III Galileon	,			,		
10 dB/div Ref 47.00 dBn	n						
Log 37.0							
27.0	hefter of the state of the stat	www.alunda.alunda.au				c	lear Write
17.0	1						
7.00							
-3.00							Average
-13.0							
-13.0 -23.0 mln. Jn. Markov Markov Markov Markov - 23.0			hurs	a malpinedy day and in	human		
-33.0							Max Hold
-33.0							
-43.0							Min Hold
Center 2.133 GHz #Res BW 100 kHz		#VBW 300 kHz			n 20 MHz 2.533 ms		Will Hold
Occupied Bandwidt	h	Total Power	54.3	3 dBm			Detector
	9687 MHz					<u>Auto</u>	Average► Man
Transmit Freq Error	10.178 kHz	OBW Power	99	9.00 %			
x dB Bandwidth	9.525 MHz	x dB	-26.	00 dB			

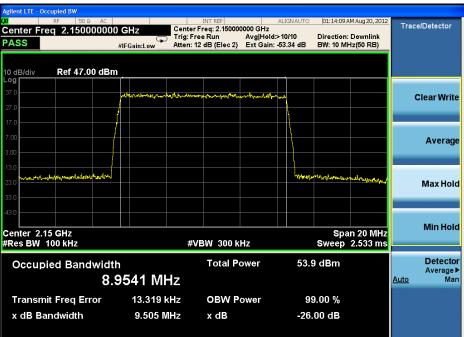


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3.3.5 highest frequency-Input



3.3.6 highest frequency--Output





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7.2.6 Out of Band Rejection

Test Date:	2012-08-20
Test Requirement:	2-11-04/EAB/RF
	Test for rejection of out of band signals. Filter freq. response plots are acceptable.
Test Method:	2-11-04/EAB/RF
EUT Operation:	
Status:	Drive the EUT to maximum output power.
Conditions:	Normal conditions
Application:	Cellular Band RF output ports
Test Configuration:	
Sig	nal RF RF Spectrum nerator Input Output Analyzer

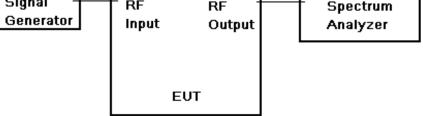


Fig.4. Out of Band rejection test configuration

Test Procedure:

1. Connect the equipment as illustrated;

2. Test the background noise level with all the test facilities;

3. Keep one transmitting path, all other connectors shall be connected by normal power or RF leads;

4. Select the attenuator to avoid the test receiver or spectrum analyzer being destroied;

5. Keep the EUT continuously transmitting in max power;

6. Signal generator sweep from the frequency more lower than the product frequency to the frequency more higher than it, find the product band filter characteristic;

· CW signal rather than typical signal is acceptable (for FM).

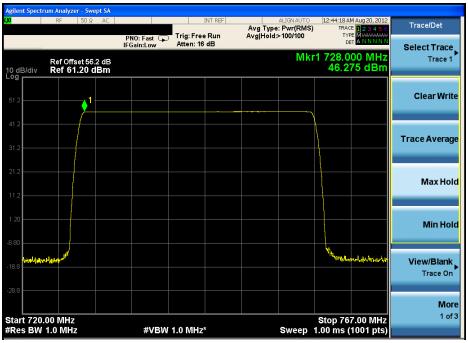
· Multiple band filter will need test each other.



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7.2.6.1 Measurement Record:

1.Test for Downlink: 728MHz to 757MHz



Agilent Spectr	rum Analyzer - Swept SA RF 50 Ω AC		INT REF	ALIGNAUT	0 10:40:45 eM	Aug 20, 2012	
	NP JUS2 AC		Free Run n: 16 dB	Avg Type: Pwr(RM Avg Hold>100/100	IS) TRACE	123456 MWWWWW ANNNNN	Trace/Det
10 dB/div	Ref Offset 56.2 dB Ref 61.20 dBm			М	kr1 757.00 46.45	00 MHz 2 dBm	Trace 1
51.2					↓ ¹		Clear Write
41.2							Trace Average
31.2 21.2							
11.2							Max Hold
-8.80							Min Hold
-18.8	homen				Weldow Mark	halagy distance of the	View/Blank Trace On
-28.8							More
Start 720. #Res BW		#VBW 1.0 N	1Hz*	Sweep	Stop 767 0 1.00 ms (1		1 of 3



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Trace/Det Avg Type: Pwr(RMS) Avg[Hold>100/100 PNO: Fast ____ Trig: Free Run IFGainLew Atten: 10 dB Select Trace Mkr1.1 Trace 1 Ref Offset 53.34 dB Ref 60.34 dBm 46.278 dB 0 dBidi **Clear Write** Trace Average Max Hold Min Hold View/Blank Trace On More Stop 2.00000 GHz Sweep 1.00 ms (1001 pts) 1 of 3 Start 1.92000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz*

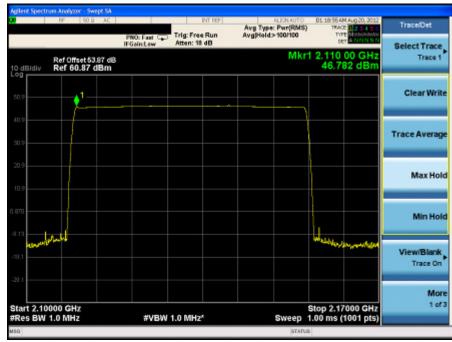
m Analyzer - Swept SA Marker 1 1.995000000000 GHz Avg Type: Pwr(RMS) Avg|Hold:>100/100 Marker CHZ PNO: Fast C IFGain:Low Atten: 18 dB 12345 M ANNN Select Marker Mkr .995 00 GH2 46.412 dBm Ref Offset 53.34 dB Ref 60.34 dBm 10 dB/div Normal Delta **Fixed** Off **Properties** More Stop 2.00000 GHz Sweep 1.00 ms (1001 pts) Start 1.92000 GHz #Res BW 1.0 MHz 1 of 2 #VBW 1.0 MHz*

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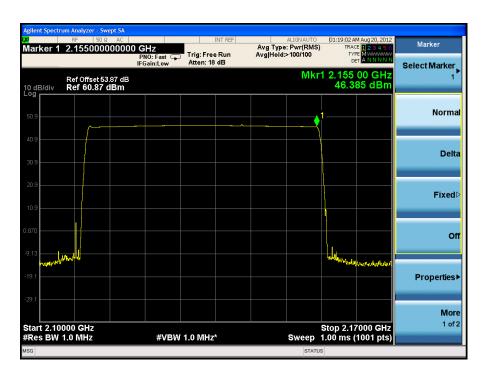
2. Test for Downlink: 1930MHz to 1995MHz



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3. Test for Downlink:2110MHz to 2155MHz





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7.2.7 Frequency Stability

	-
Test Date:	2012-08-30
Test Requirement:	FCC part 24.235 & FCC part 27.54
	The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.
Test Method:	FCC part 2.1055
EUT Operation:	
Status:	Drive the EUT to maximum output power.
Conditions:	Temperature conditions, voltage conditions
Application:	Cellular Band RF output ports
Test Procedure:	1. Temperature conditions:
	 The RF output port of the EUT was connected to Frequency Meter;
	b) Set the working Frequency in the middle channel;
	c) record the 20 °C and norminal voltage frequency value as reference point;
	d) vary the temperature from -40 $^{\circ}$ C to 50 $^{\circ}$ C with step 10 $^{\circ}$ C
	 e) when reach a temperature point, keep the temperature banlance at least 1 hour to make the product working in this status;
	f) read the frequency at the relative temperature.
	2. Voltage conditions:
	 a) record the 20 °C and norminal voltage frequency value as reference point;
	b) vary the voltage from -15% norminal voltage to +15% voltage;
	c) read the frequency at the relative voltage.



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7.2.7.1 Measurement Record:

Frequency Stability vs temperature:

1.Test for Downlink: 728~757MHz (middle channel 742.5MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	742.5000028	0.00067340
40	742.5000027	0.00053872
30	742.5000026	0.00040404
20	742.5000023	Reference
10	742.5000031	0.00107740
0	742.5000033	0.00134680
-10	742.5000041	0.00242424
-20	742.5000032	0.00121212
-30	742.5000035	0.00161616
-40	742.5000034	0.00148148

2.Test for Downlink: 1930~1995MHz (middle channel 1962.5MHz)

Temperature(°C)	Frequency(MHz)	Tolerance(ppm)
50	1962.5000021	-0.00071338
40	1962.5000034	-0.00005096
30	1962.5000036	0.00005096
20	1962.5000035	Reference
10	1962.5000042	0.00035669
0	1962.5000028	-0.00035669
-10	1962.5000036	0.00005096
-20	1962.5000039	0.00020382
-30	1962.5000037	0.00010191
-40	1962.5000035	

3.Test for Downlink: 2110~2155MHz (middle channel 2132.5MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	2132.5000051	0.00014068
40	2132.5000049	0.00004689
30	2132.5000033	-0.00070340
20	2132.5000048	Reference
10	2132.5000036	-0.00056272
0	2132.5000044	-0.00018757
-10	2132.5000041	-0.00032825
-20	2132.5000039	-0.00042204
-30	2132.5000038	-0.00046893
-40	2132.5000042	-0.00028136



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Frequency Stability vs voltage:

4.Test for Downlink:728~757MHz (middle channel 742.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	742.5000031	0.0010774
120	742.5000023	Reference
138 (120*1.15)	742.5000028	0.0006734

5.Test for Downlink: 1930~1995MHz (middle channel 1962.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	1962.5000039	
120	1962.5000035	Reference
138 (120*1.15)	1962.5000041	

6. Test for Downlink: 2110~2155MHz (middle channel 2132.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	2132.5000051	
120	2132.5000048	Reference
138 (120*1.15)	2132.50000	

--The End of Report--