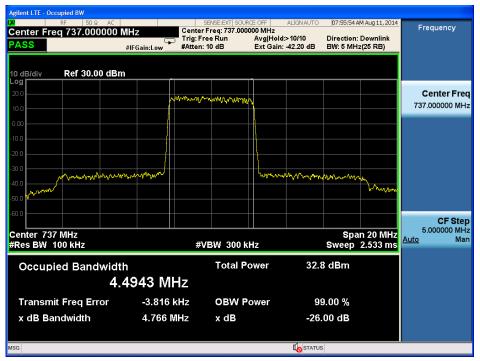
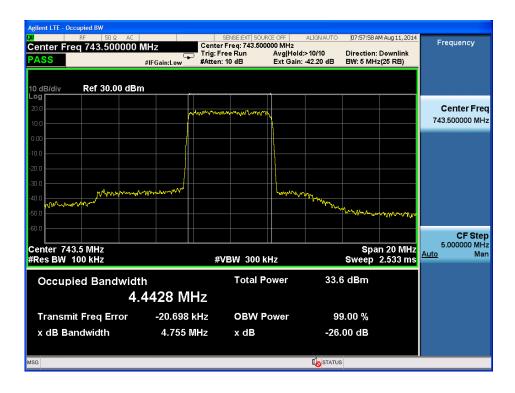


Report No.: GZEM140700341203 Page: 151 of 214 FCC ID: PX8MBDA-200S

1.5 middle frequency



1.6 highest frequency

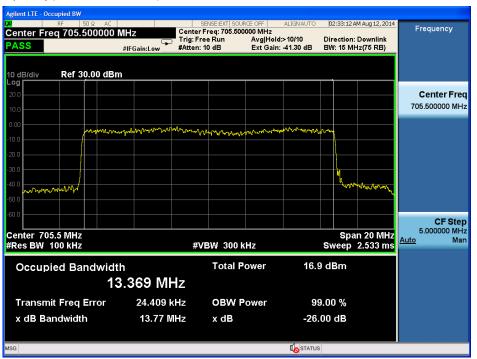




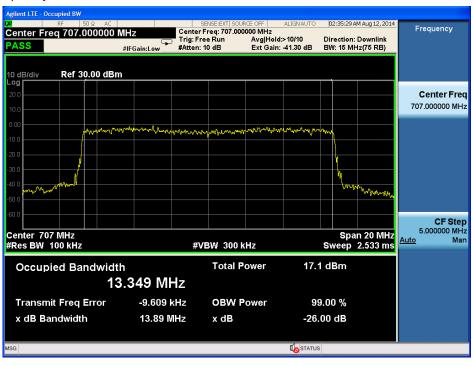
Report No.: GZEM140700341203 Page: 152 of 214 FCC ID: PX8MBDA-200S

2) Uplink:698MHz to 716MHz(LTE mode)

1.1 lowest frequency(**15M modulation**)



1.2 middle frequency

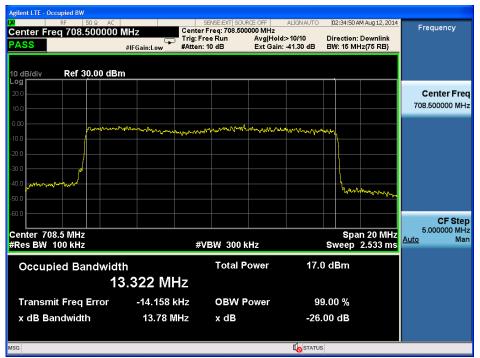


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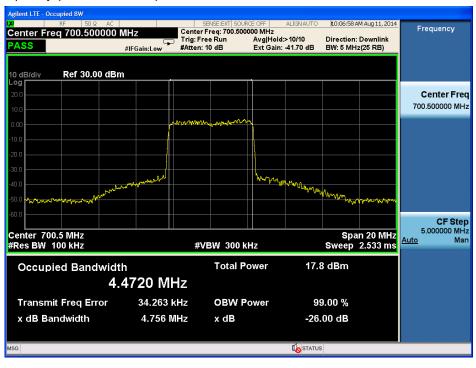


Report No.: GZEM140700341203 Page: 153 of 214 FCC ID: PX8MBDA-200S

1.3 highest frequency



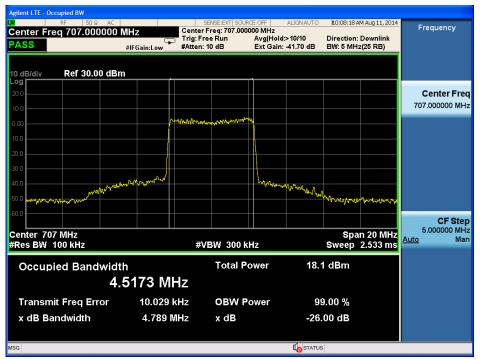
1.4 lowest frequency (5M modulation)



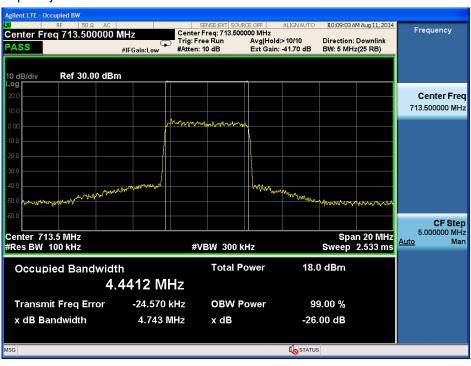


Report No.: GZEM140700341203 Page: 154 of 214 FCC ID: PX8MBDA-200S

1.5 middle frequency



1.6 highest frequency



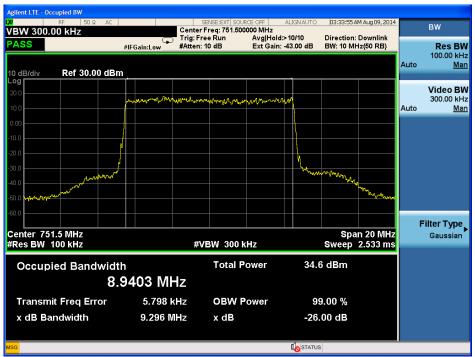


Report No.: GZEM140700341203 Page: 155 of 214 FCC ID: PX8MBDA-200S

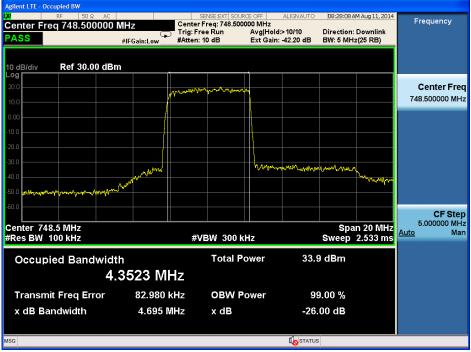
3)Downlink:746MHz to 757MHz(LTE mode) Remark:

Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm),finally find the worst case as the EUT with Maximum Rated Output power(33dBm).

1.1 middle frequency(10M modulation)



1.2 lowest frequency(5M modulation)



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1.3 middle frequency



1.4 highest frequency

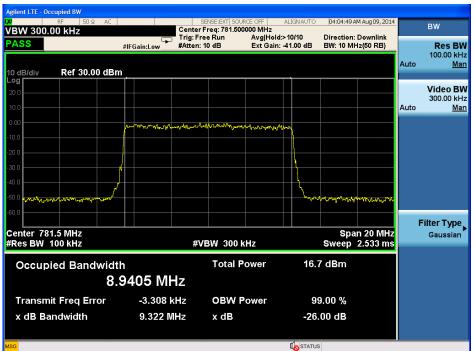




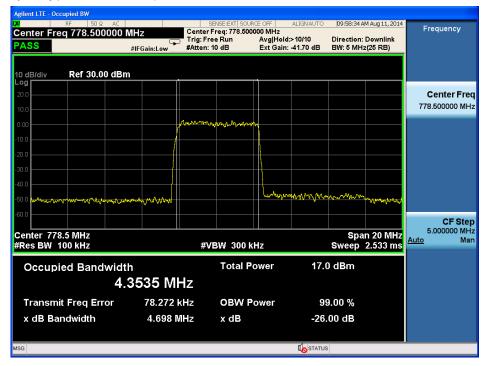
Report No.: GZEM140700341203 Page: 157 of 214 FCC ID: PX8MBDA-200S

4) Uplink::776MHz to 787MHz(LTE mode)

1.1 middle frequency(10M modulation)



1.2 lowest frequency(5M modulation)

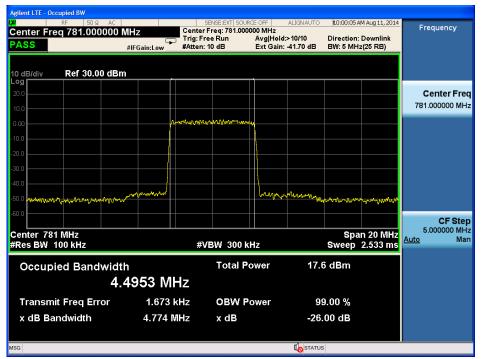


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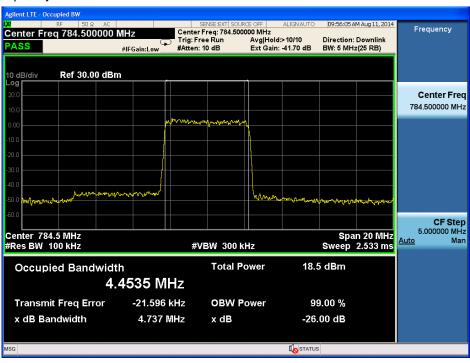


Report No.: GZEM140700341203 Page: 158 of 214 FCC ID: PX8MBDA-200S

1.3middle frequency



1.4 highest frequency





Report No.: GZEM140700341203 Page: 159 of 214 FCC ID: PX8MBDA-200S

5)Downlink:869MHz to 894MHz(WCDMA,LTE)

Remark:

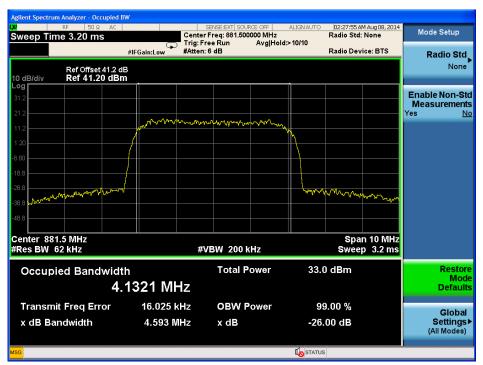
Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm),finally find the worst case as the EUT with Maximum Rated Output power(33dBm).

1.wcdma mode

1.1. lowest frequency

Agilent Spectrum Analyzer - Occupied BW						
🗶 RF 50 Ω AC Span 10.000 MHz		ENSE:EXT SOURCE OFF	ALIGNAUTO 02:25:51 / Radio Std	M Aug 08, 2014		BW
	FGain:Low Trig: Fre	e Run Avg Hold	:>10/10 Radio De	ilao: BTS		Res BW
	FGam:Low Mattern		Kadio De	nce. B15		62.000 kHz
Ref Offset 41.2 dB 10 dB/div Ref 41.20 dBm					Auto	<u>Man</u>
Log 31.2						Video BW
21.2					Auto	200.00 kHz Man
	wwww	www.	www.		Auto	ivian
11.2	M					
1.20						
-8.80						
-18.8						
-28.8 -38.8	Nul		haman	www.		
-38.8						
-48.8					-	liter Trme
Center 871.5 MHz			Spa	n 10 MHz	F	Gaussian
#Res BW 62 kHz	#V	BW 200 kHz		p 3.2 ms		
Occupied Bandwidth		Total Power	32.7 dBm			
4.1	674 MHz					
Transmit Freq Error	507.51 kHz	OBW Power	99.00 %			
x dB Bandwidth	4.648 MHz	x dB	-26.00 dB			
MSG			STATUS			

1.2 middle frequency

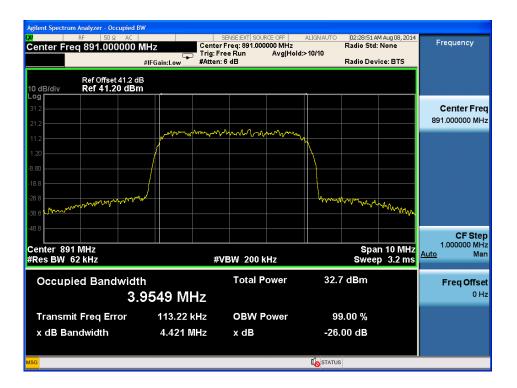


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1.3 highest frequency



2、 LTE mode

2.1 lowest frequency(20M modulation)

Agilent LTE - Oc W Center Fre	RF 50	ος ac 00000 MH		Center	ENSE:EXT SO	0000 MHz	ALIGN AUTO		2 PM Jul 28, 2014 n: Downlink	-	BW
PASS		#IF	Gain:Low	#Atten: /	e Run 10 dB		:: -41.20 dB		1: Downink 1Hz(100 RB)	Auto	Res BW 100.00 kHz Man
10 dB/div	Ref_20	.00 dBm									
Log 10.0		- Angle	centurthed a typed	a,p.A.pmAAAAAA	aphin (marked	angan Musika Musika	^{da} ngug ^{al} windugigadi	terren and		Auto	Video BW 300.00 kHz <u>Man</u>
-10.0								ļ			
-20.0											
-30.0	mm							۲	www.www.w		
-40.0 P											
-50.0											
-60.0											
-70.0											Filter Type
Center 879	9 MHz							Sp	an 25 MHz		Gaussian
#Res BW	100 kHz			#V	BW 300	kHz		Sweep	3.133 ms		
Occupi	ied Ban	dwidth			Total I	ower	33.0	0 dBm			
			326 MI	Ηz							
Transm	it Freq E	rror	7.140 I	κHz	OBW	Power	9	9.00 %			
x dB Ba	ndwidth		18.27 N	1Hz	x dB		-26	00 dB			
MSG							I STATUS	3			



Report No.: GZEM140700341203 Page: 161 of 214 FCC ID: PX8MBDA-200S

2.2 middle frequency

Agilent LTE - Occupied BW			SOURCE OFF	ALIGNAUTO	09:14:26 A	M Aug 10, 2014	Frequency
Center Freq 880.0000 PASS	00 MHz #IFGain:Low	Center Freq: 88 Trig: Free Run #Atten: 10 dB	Avg Hol	d:>10/10 n: -41.20 dB	Direction: BW: 20 MH		, requeries
10 dB/div Ref 30.00	dBm						
20.0 10.0	๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	a million all more from the	whole and the second	~luroranyor	-		Center Freq 880.000000 MHz
0.00							
-20.0							
-30.0					- h.	aparton de la construction de la construcción de la construcción de la construcción de la construcción de la co	
-50.0							05.00
Center 880 MHz #Res BW 100 kHz		#VBW 3	00 kHz		Spa Sweep	n 25 MHz 3.133 ms	CF Step 5.000000 MHz <u>Auto</u> Man
Occupied Bandw	Occupied Bandwidth		al Power	32.9 dBm			
	17.853 M	Hz					
Transmit Freq Erro	-8.626	kHz OB	OBW Power		9.00 %		
x dB Bandwidth	dB Bandwidth 18.29 MHz		В	-26.	00 dB		
NSG					3		

2.3 highest frequency

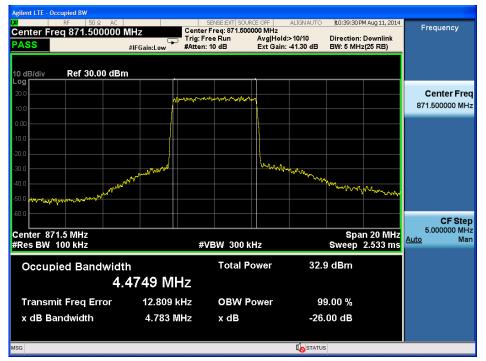
XI RF 50Ω A			NSE:EXT SOURCE O		INAUTO	09:06:	17 AM Aug 10, 2014	Frequency
Center Freq 884.00000 PASS			e Run Av	g Hold:>10/ t Gain: -41.			on: Downlink MHz(100 RB)	
10 dB/div Ref 30.00 d	Зm							
20.0 10.0	at a south and the south	y the second second second second	anthrough	1, million of the	vurran	Anvena		Center Free 884.000000 MH
0.00								
20.0 30.0 -40.0							mantheman	
60.0								05.040
Center 884 MHz #Res BW 100 kHz		#VE	300 kHz			S Swee	pan 25 MHz p 3.133 ms	CF Stej 5.000000 MH <u>Auto</u> Mar
Occupied Bandwi	dth		Total Powe	ər	32.8	dBm		
	17.828 N	lHz						
Transmit Freq Error	8.327	' kHz	OBW Pow	ər	99	.00 %		
x dB Bandwidth	18.32	MHz	x dB		-26.0)0 dE		
ISG					STATUS			

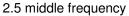
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2.4 lowest frequency(5M modulation)









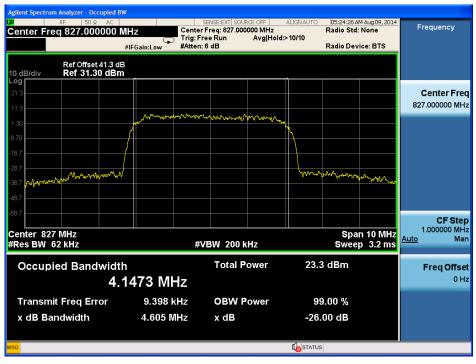
Report No.: GZEM140700341203 Page: 163 of 214 FCC ID: PX8MBDA-200S

2.6 highest frequency



6)Uplink:824MHz to 849MHz(WCDMA,LTE)

- 1.WCDMA mode
- 1.1 lowest frequency

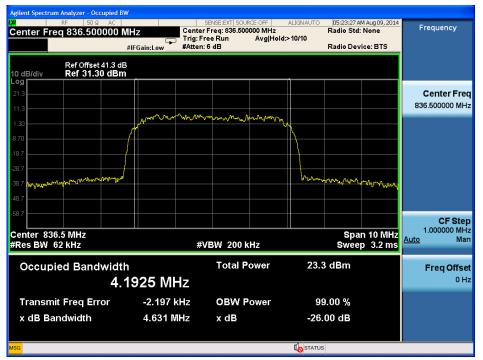


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Report No.: GZEM140700341203 Page: 164 of 214 FCC ID: PX8MBDA-200S

1.2 middle frequency



1.3 highest frequency

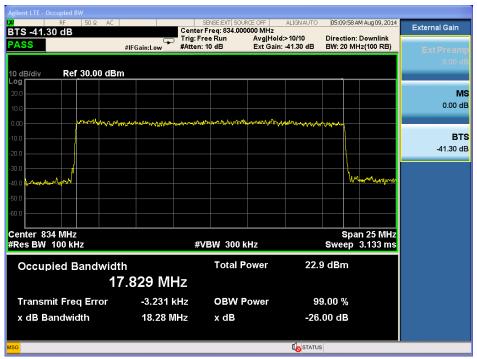




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2.LTE mode

2.1 lowest frequency(20M modulation)



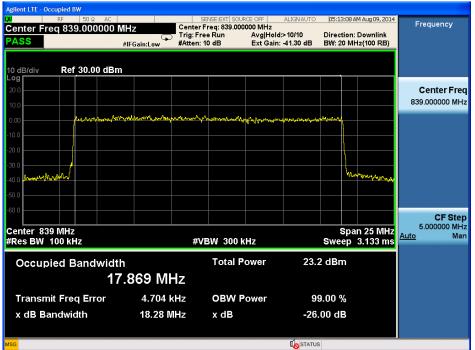
2.2 middle frequency

Agilent LTE - Occupied BW		SENSE:EXT SO		ALIGNAUTO	05-12-247	IM Aug 09, 2014		
Center Freq 836.500000 PASS		Center Freq: 836.50 Trig: Free Run #Atten: 10 dB	00000 MHz Avg Hol		Direction:		Trac	e/Detector
10 dB/div Ref 30.00 dBn	n							
20.0							(Clear Write
0.00	MARTIN MARKEN	ᢉᢦᠯᡣᡘᠬᡪᡇᢪᠧ᠆ᠯᢣᡕ _ᡘ ᠂ᡊᡪᡘᢪᡪᢩᠬᢋᢛᡵᡘ᠄ᡁ	Win mwwym	mmunanananan				Average
-30.0 -40.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						Murana wanan		Max Hold
-60.0 Center 836.5 MHz #Res BW 100 kHz		#VBW 300	kHz			ın 25 MHz 3.133 ms		Min Hol
Occupied Bandwidt	_h 6.548 MH	Total I Z	Power	23.0) dBm		<u>Auto</u>	Detecto Average Ma
Transmit Freq Error x dB Bandwidth	-653.71 ki 17.21 Mi		Power		9.00 % 00 dB			
MSG				STATUS	;			



Report No.: GZEM140700341203 Page: 166 of 214 FCC ID: PX8MBDA-200S

2.3 highest frequency



2.4 lowest frequency(5M modulation)

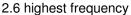




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2.5 middle frequency









Report No.: GZEM140700341203 Page: 168 of 214 FCC ID: PX8MBDA-200S

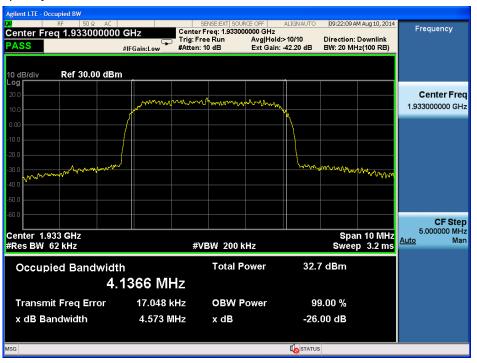
7)Downlink:1930MHz to 1995MHz(WCDMA,LTE)

Remark:

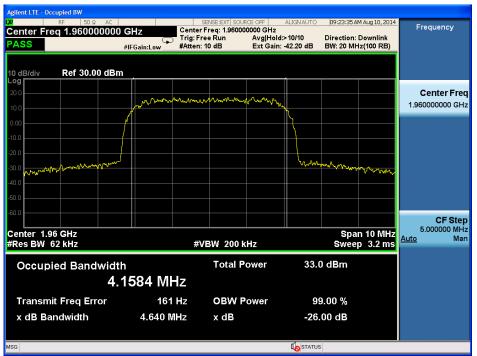
Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm),finally find the worst case as the EUT with Maximum Rated Output power(33dBm).

1.WCDMA mode

1.1 lowest frequency



1.2 middle frequency

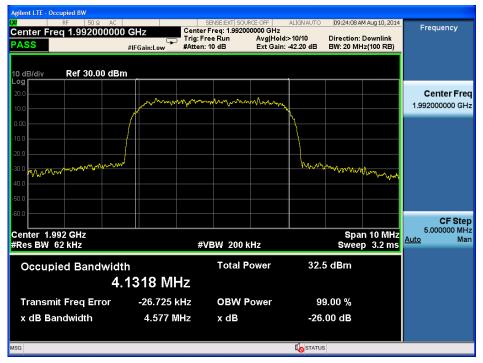


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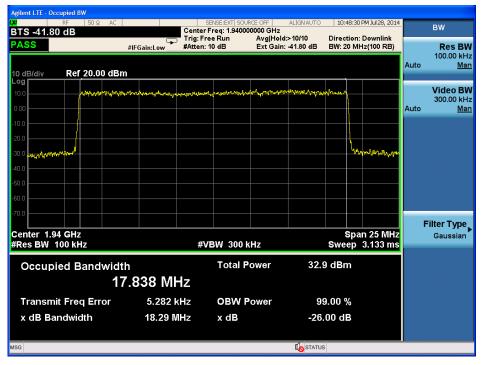
Report No.: GZEM140700341203 Page: 169 of 214 FCC ID: PX8MBDA-200S

1.3 highest frequency



2.LTE mode

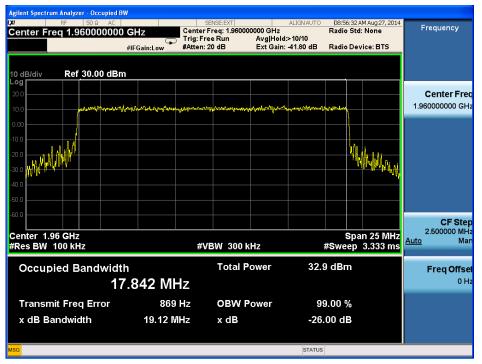
2.1 lowest frequency(20M modulation)

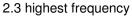




Report No.: GZEM140700341203 Page: 170 of 214 FCC ID: PX8MBDA-200S

2.2 middle frequency





Agilent LTE - Occupied BW RE 50 Q / Center Freq 1.9850000 PASS	00 GHz	SENSE:EXT SOU Center Freq: 1.98500 Trig: Free Run #Atten: 10 dB	0000 GHz	/10 Directi	9:19 PM Jul 28, 2014 on: Downlink MHz(100 RB)	Frequency
10 dB/div Ref 20.00 d	Bm					
10.00	nor and a straight of the second s	vpo ⁿ terestoren antipetraspertaste	n when the har you	Munannapro		Center Freq 1.98500000 GHz
-10.0						
-30.0 mmmhall					mangementer	
-40.0						
-60.0						CF Step
Center 1.985 GHz #Res BW 100 kHz		#VBW 300 k	KHz	Swee	pan 25 MHz p 3.133 ms	5.000000 MHz Auto Man
Occupied Bandwi		Total P	ower	32.8 dBm		
Transmit Freq Error	.17.831 MH 6.447 kH		ower	99.00 %)	
x dB Bandwidth	18.27 MF	z xdB		-26.00 dB		
MSG			Ľ,	STATUS		

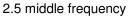
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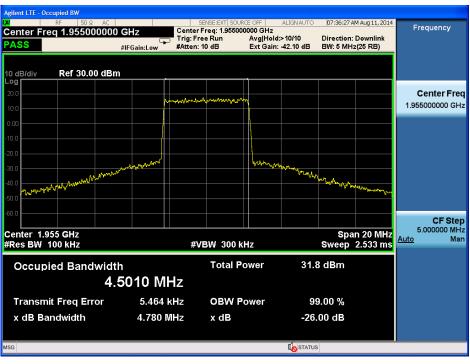


Report No.: GZEM140700341203 Page: 171 of 214 FCC ID: PX8MBDA-200S

2.4 lowest frequency(5M modulation)



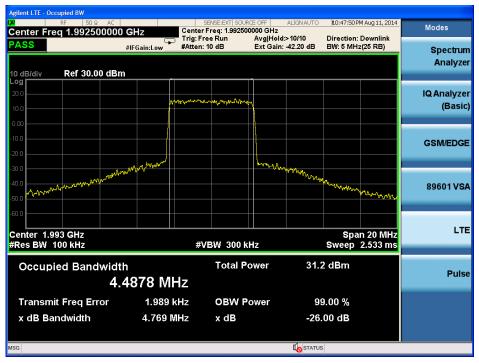






Report No.: GZEM140700341203 Page: 172 of 214 FCC ID: PX8MBDA-200S

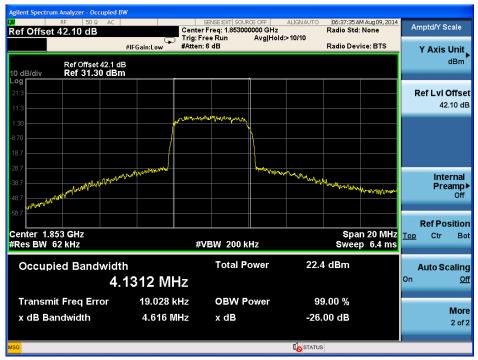
2.6 highest frequency



8)Uplink:1850MHz to 1915MHz (WCDMA,LTE)

1.WCDMA mode

1.1 lowest frequency

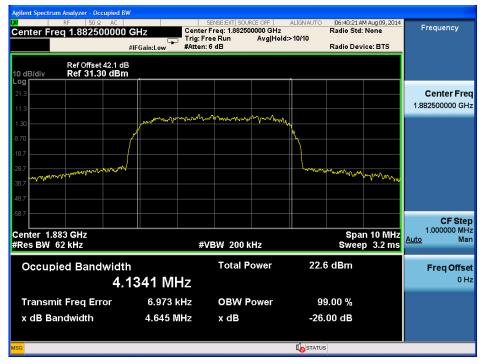


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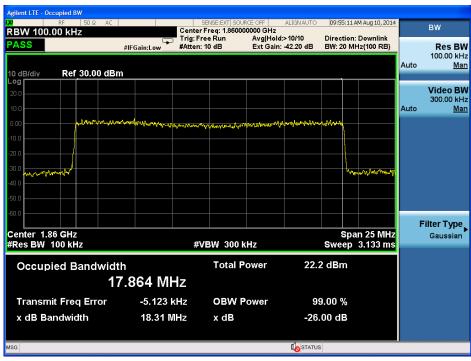
Report No.: GZEM140700341203 Page: 173 of 214 FCC ID: PX8MBDA-200S

1.2 middle frequency



2.LTE mode

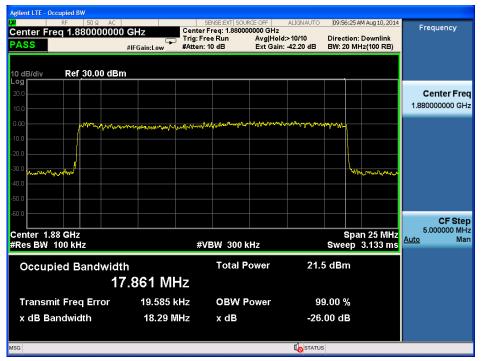
2.1 lowest frequency



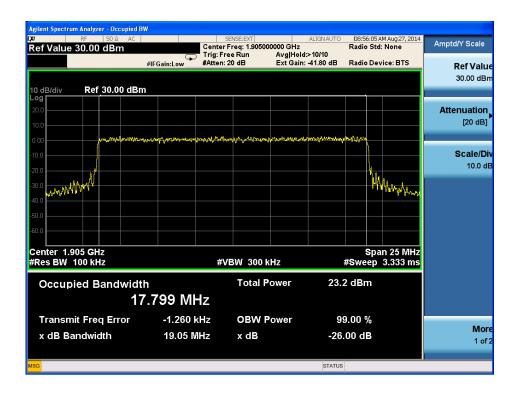


Report No.: GZEM140700341203 Page: 174 of 214 FCC ID: PX8MBDA-200S

2.2 middle frequency



2.3 highest frequency

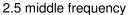




Report No.: GZEM140700341203 Page: 175 of 214 FCC ID: PX8MBDA-200S

2.4 lowest frequency(5M modulation)







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2.6 highest frequency



9) Downlink:2110M to 2155MHz(WCDMA,LTE)

Remark:

Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm),finally find the worst case as the EUT with Maximum Rated Output power(33dBm).

- 1.WCDMA mode
- 1.1 lowest frequency

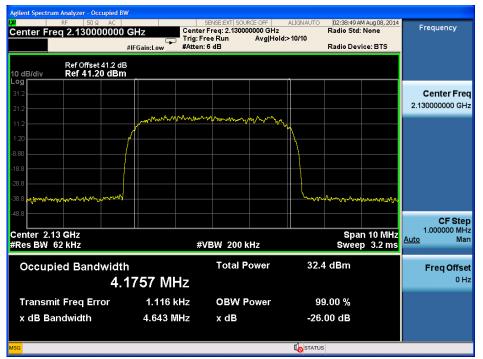


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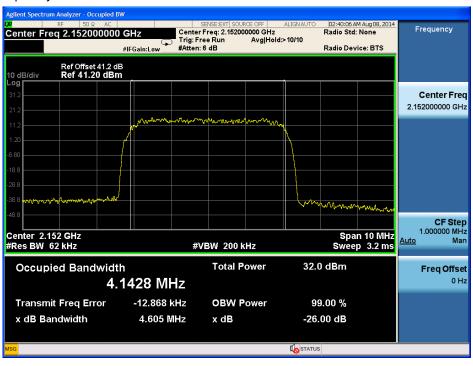


Report No.: GZEM140700341203 Page: 177 of 214 FCC ID: PX8MBDA-200S

1.2 middle frequency



1.3 highest frequency

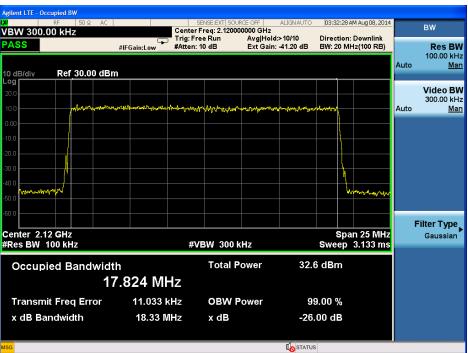




Report No.: GZEM140700341203 Page: 178 of 214 FCC ID: PX8MBDA-200S

2.LTE mode

2.1 lowest frequency



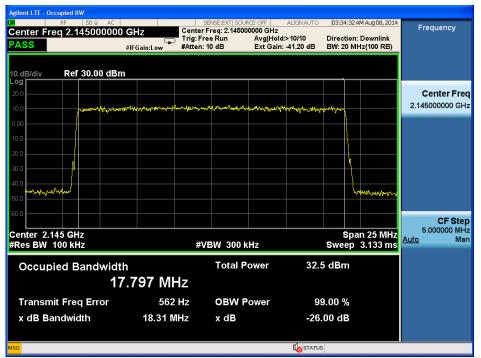
2.2 middle frequency

gilent LTE - Occupied BW RF 50 Ω		SENSE:EXT SOURCE		03:33:42 AM Aug 08, 2	2014 Frequency
enter Freq 2.130000		Trig: Free Run	00 GH2 Avg Hold:>10/10 Ext Gain: -41.20 dB	Direction: Downlin BW: 20 MHz(100 RI	k
0 dB/div Ref 30.00 (dBm				
og 200	t-Antiblikenserverkon	๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	manne	norm	Center Fre 2.130000000 GH
0.00					
0.0					
0.0 Way www.and				how why	
				0	CF Ste 5.000000 Mi
enter 2.13 GHz Res BW 100 kHz		#VBW 300 kH	z	Span 25 M Sweep 3.133 i	ms <u>Auto</u> Ma
Occupied Bandw	idth	Total Po	wer 32.	6 dBm	
	17.836 MH	Z			
Transmit Freq Error	-9.780 kł	Iz OBW Po	wer 9	9.00 %	
x dB Bandwidth	18.32 M	lz xdB	-26	.00 dB	
			I STATU		

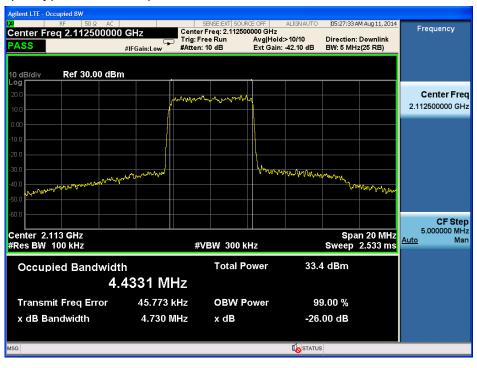


Report No.: GZEM140700341203 Page: 179 of 214 FCC ID: PX8MBDA-200S

2.3 highest frequency



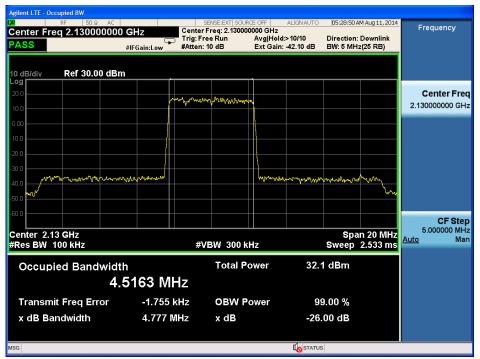
2.4 lowest frequency(5M modulation)





Report No.: GZEM140700341203 Page: 180 of 214 FCC ID: PX8MBDA-200S

2.5 middle frequency





2.6 highest frequency

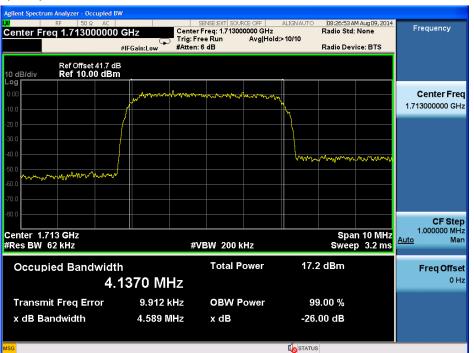


Report No.: GZEM140700341203 Page: 181 of 214 FCC ID: PX8MBDA-200S

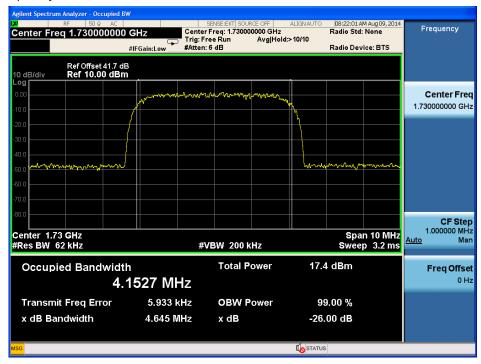
10) Uplink:1710M to 1755MHz modulation (WCDMA,LTE mode)

1.WCDMA mode

1.1 lowest frequency



1.2 middle frequency

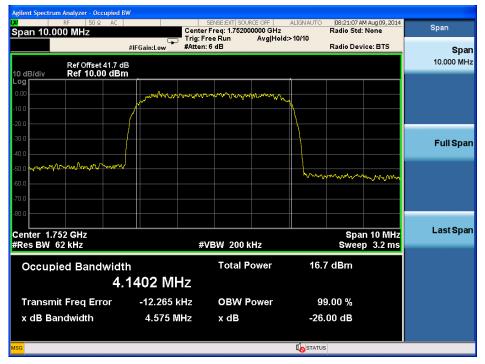


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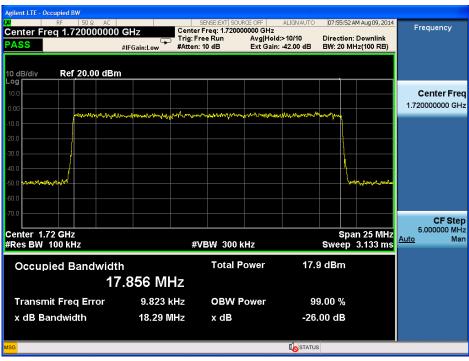
Report No.: GZEM140700341203 Page: 182 of 214 FCC ID: PX8MBDA-200S

1.3 highest frequency



2.LTE mode

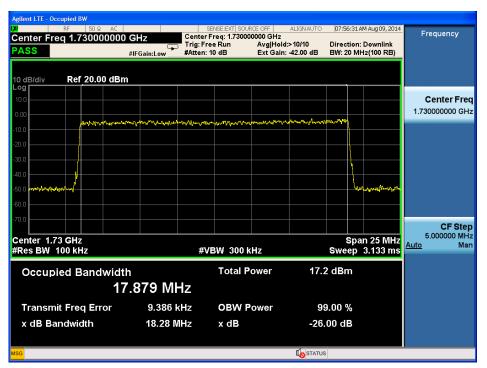
2.1 lowest frequency





Report No.: GZEM140700341203 Page: 183 of 214 FCC ID: PX8MBDA-200S

2.2 middle frequency



2.3 highest frequency

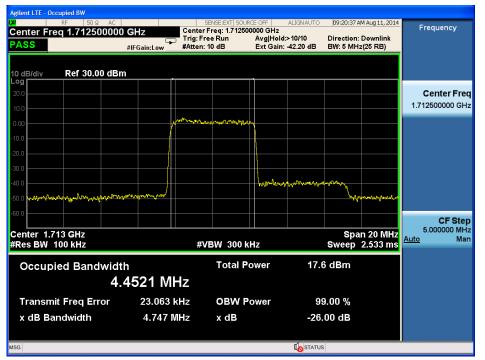
ilent LTE - Occupie RF ef Value 20.1	50 Ω	AC			NSE:EXT SOU reg: 1.74500		ALIGN AUTO	03:12	:10 AM Jul 29, 2014	Amptd/Y Scale
ASS	JU ABM	#IFGa	in:Low		Run	Avg Hold	:>10/10 -41.90 dB		on: Downlink MHz(100 RB)	Ref Valu 20.00 dB
0 dB/div R	ef 20.00	dBm				1				20.00 08
0.0										Attenuation [10 dB]
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0.0 otelletingen ande 0.0									haden der la begingen a	
0.0										
enter 1.745 (Res BW 100				#VE	W 300 K	Hz		S Swee	pan 25 MHz p 3.133 ms	
Occupied	Bandw			_	Total P	ower	16. ⁻	l dBm		
		17.84								
		8.494 k 18.29 №			ower	99.00 % -26.00 dB			Ма	
	main		10.29 1	112	xub		-20.	00 UB		1 o
G								s		

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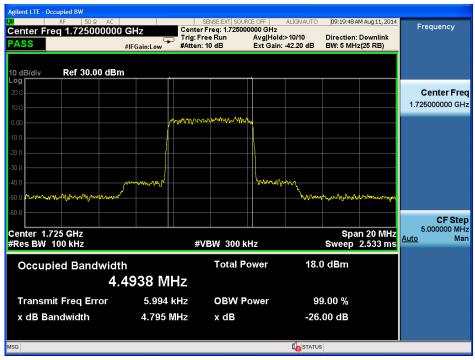


Report No.: GZEM140700341203 Page: 184 of 214 FCC ID: PX8MBDA-200S

2.4 lowest frequency(5M modulation)



2.5 middle frequency

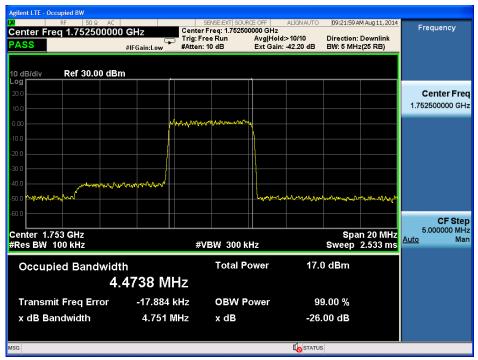


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Report No.: GZEM140700341203 Page: 185 of 214 FCC ID: PX8MBDA-200S

2.6 highest frequency

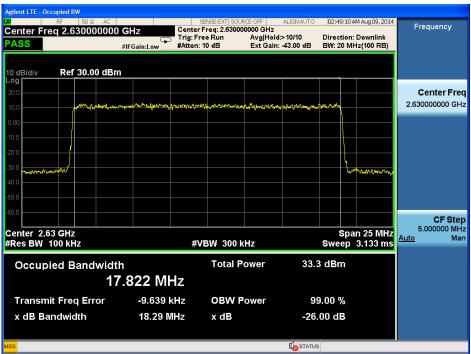


11) Downlink:2620MHz to 2690MHz(LTE mode)

Remark:

Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm), finally find the worst case as the EUT with Maximum Rated Output power(33dBm).

1.1 lowest frequency

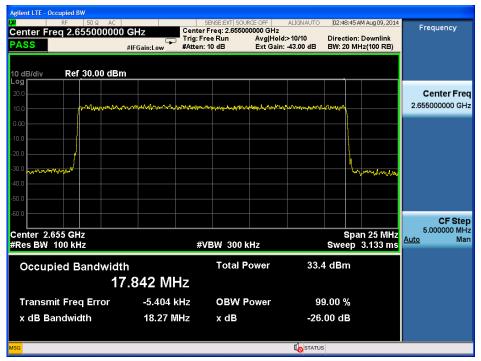


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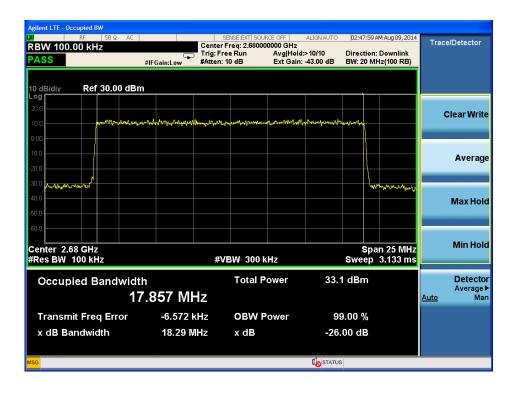


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1.2 middle frequency



1.3 highest frequency



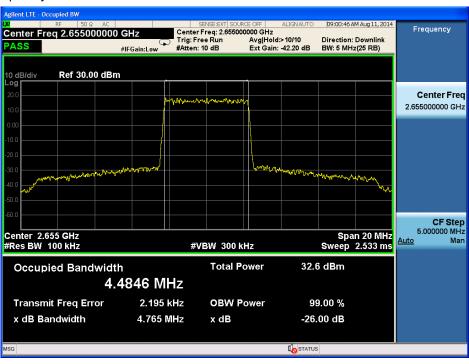


Report No.: GZEM140700341203 Page: 187 of 214 FCC ID: PX8MBDA-200S

1.4 lowest frequency(5M modulation)



1.5 middle frequency





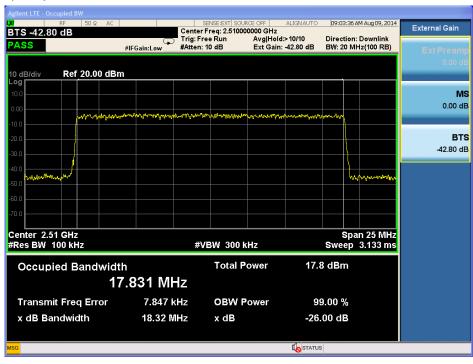
Report No.: GZEM140700341203 Page: 188 of 214 FCC ID: PX8MBDA-200S

1.6 highest frequency



12) Uplink:2500MHz to 2570MHz(LTE mode)

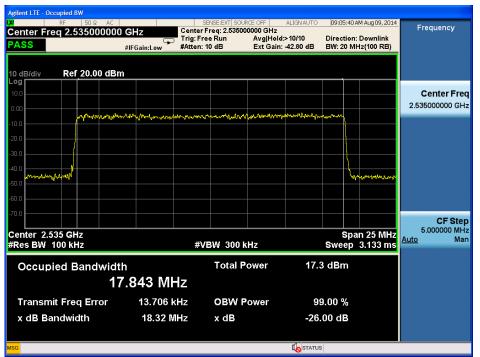
1.1 lowest frequency



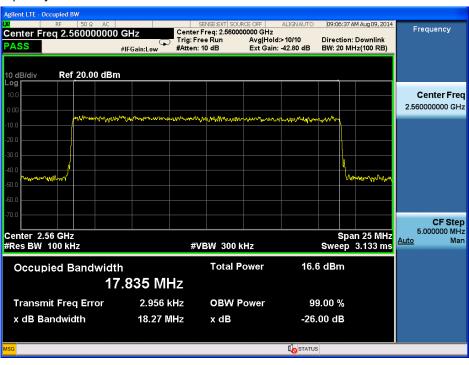


Report No.: GZEM140700341203 Page: 189 of 214 FCC ID: PX8MBDA-200S

1.2 middle frequency



1.3 highest frequency





Report No.: GZEM140700341203 Page: 190 of 214 FCC ID: PX8MBDA-200S

1.4 lowest frequency(5M modulation)



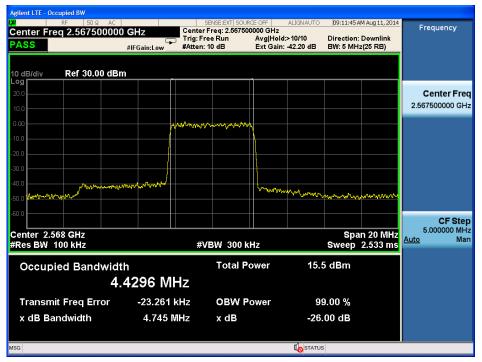
1.5 middle frequency





Report No.: GZEM140700341203 Page: 191 of 214 FCC ID: PX8MBDA-200S

1.6 highest frequency





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7.2.6 Out of Band Rejection

Test Date:	2013-03-17
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:	
Sigr Gen	nal RF RF Spectrum lerator Input Output Analyzer

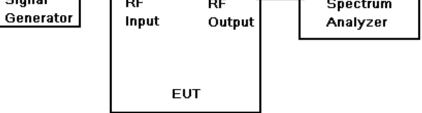


Fig.4. Out of Band rejection test configuration

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 746MHz Remark:

Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm), finally find the worst case as the EUT with Maximum Rated Output power(33dBm).

	Analyzer - Swept SA							
	RF 50Ω AC	MHz			ALIGN AUTO	07:49:38 AM TRACE	123456	Marker
		PNO: Fast G	Trig: Free Run Atten: 14 dB	i Avg Ho	id:>100/100	DET	M WWWWWW P N N N N N	Select Marker
10 dB/div	Ref Offset 41.3 dB Ref 45.10 dBm				Mk	r2 746.0 25.10	0 MHz 4 dBm	2
25.1 25.1 15.1					2			Normal
5.10 -4.90 -14.9								Delta
-24.9 -34.9 -44.9					Strate Window of	فيالا إلايتورف ماسرار رومهم	1800-1904-1949 (Mg Mg Mg Mg	Fixed⊳
Center 737.0 #Res BW 1.0	0 MHz SCL ×		V 1.0 MHz Y	FUNCTION	Sweep 7	Span 50 1.00 ms (1 FUNCTION		Off
1 N 1 2 N 1 3 4 5 5 6		28.00 MHz 46.00 MHz	25.399 dBm 25.104 dBm					Properties►
7 8 9 10 11 12								More 1 of 2
MSG					I ostatus			

2)Test for Uplink: 698MHz to 716MHz

	M Aug 10, 2014	07:46:15 AN	ALIGNAUTO	RCE OFF	NSE:EXT	SEF		Swept SA	um Analyzer - S RF 50	gilent Spect
Trace/Det		TRAC TYP		#Avg Ty	Run	Trig: Free	PNO: Fast 🔾	00000 MI	716.0000	larker 2
Select Trace	00 MHz 06 dBm	r2 716.	Mk		dB	Atten: 14	FGain:Low	41.3 dB	Ref Offset 4	0 dB/div
Clear Write			2							.og 35.1 25.1
Trace Average										5.10 4.90 14.9
Max Hold	antification (Marchands	n faat faan de skaar de skaar In de skaar d	halla Malanna Alinka				-vf	alwayan Muytawan,	mation = 7000 Piloneed	24.9 34.9 44.9
Min Hole	0.00 MHz 1001 pts) DN VALUE	.00 ms (Sweep 1	NCTION F		/ 1.0 MHz	#VB	×	7.00 MHz 1.0 MHz	
View/Blank Trace On					Bm Bm	9.784 dl 9.506 dl	00 MHz 00 MHz		f	1 N 2 2 N 3 4 5 6 7
Mor 1 of										8 9 10 11 12
			I STATUS							SG

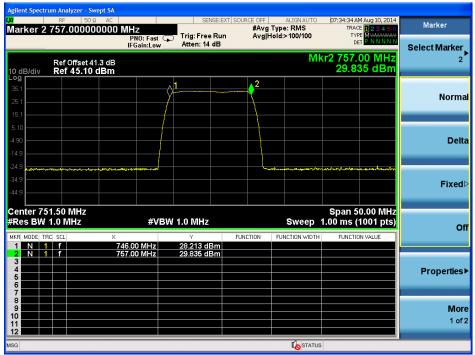


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3)Test for Downlink: 746MHz to 757MHz

Remark:

Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm), finally find the worst case as the EUT with Maximum Rated Output power(33dBm).



4)Test for Uplink: 776MHz to 787MHz

Marker	M Aug 10, 2014 E 1 2 3 4 5 6 E M H H H H H H H	TRAC	ALIGNAUTO e: RMS >100/100	#Avg Ty	ISE:EXT S			wept SA Ω AC)0000 M		F		a
Select Marker 2	00 MHz 93 dBm	r2 787.		Avgino		Atten: 14	PNO: Fast ⊂ FGain:Low	1.3 dB	f Offset 4 •f 45.10		B/div	
Norma				2 ²		1						.og 35.1 25.1 15.1
Delt												5.10 4.90 14.9
Fixed		nymetritykyndytykk	بمرباسية مرامر						-1/48-4/14++-vP	1044 16	-4,1,41	24.9 34.9 44.9
	0.00 MHz 1001 pts) ^{DN VALUE}	.00 ms (Sweep /	ICTION F		/ 1.0 MHz Y 14.209 d	#VB	×) MHz MHz	1.0		Re
Properties						14.193 d	.00 MHz					23456
Moi 1 of												7 8 9 10
			I STATUS									12 SG



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5)Test for Downlink: 869MHz to 894MHz

Remark:

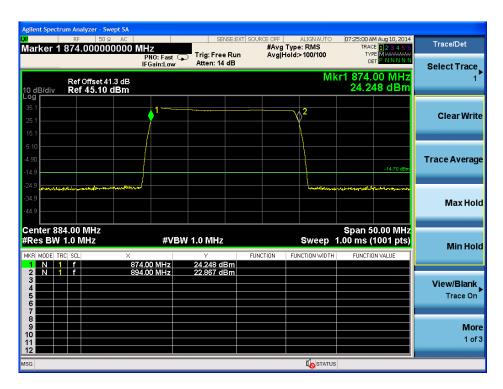
Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm), finally find the worst case as the EUT with Maximum Rated Output power(33dBm)

gilent Spectrum Analyze RF larker 2 889.00	50 Ω AC 0000000 MHz	SENSE:EXT S	DURCE OFF ALIGNAUTO #Avg Type: RMS Avg Hold:>100/100	07:22:18 AM Aug 10, 2014 TRACE 1 2 3 4 5 6 TYPE M WWWWAAA	Trace/Det
Ref Offs	PNO: Fast IFGain:Low et 41.3 dB	Atten: 14 dB		DET PINNNN kr2 889.00 MHz	Select Trace
0 dB/div Ref 45 99 35.1 25.1	.10 dBm		2	23.046 dBm	Clear Writ
5.10				-14.70 dBm	Trace Averag
34.9			kjundikom		Max Hol
enter 879.00 MH Res BW 1.0 MHz KR MODE TRC SCL 1 N 1 f		3W 1.0 MHz Y 23.804 dBm	Sweep	Span 50.00 MHz 1.00 ms (1001 pts) FUNCTION VALUE	Min Ho
2 N 1 f 3 4 5 6 6 7 7	889.00 MHz	23.046 dBm			View/Blank Trace Or
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					Mo 1 of
G				3	

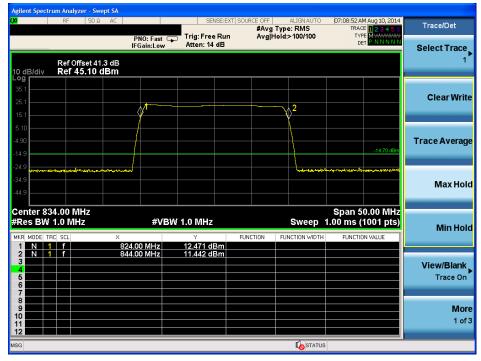
Trace/Det	AM Aug 10, 2014 ACE 1 2 3 4 5 6	TRAC		Type: RI					z	AC 1000 MH		RF		Iark
Select Trace	YPE MWWWWWW DET PNNNNN	TYF	0/100	lold:>100	Avg H		: Free R n: 14 di		NO: Fast Gain:Low	Р				
1	0.00 MHz 048 dBm		Mk								Offset 41. 45.10 c			0 dB
Clear Writ			2											35.1 - 25.1 - 15.1 -
Trace Averag	-14.70 dBm													5.10 4.90 14.9
Max Ho	adut (salar bera daga)	Martin of Source	-							Arran Canada and Anna	ha ha Innerio AN			24.9 34.9 44.9
Min Ho	50.00 MHz (1001 pts)	1.00 ms (3W 1.0	#V			1.0 №	er 879 BW 1	Res
	FION VALUE	FUNCTIL	N WIDTH	FUNCTIO	NCTION	1	98 dBr 48 dBr		0 MHz 0 MHz			f f	DE TRO	1
View/Blank Trace On										890.0				34567
Mo 1 of														8 9 10 11
			STATUS											SG



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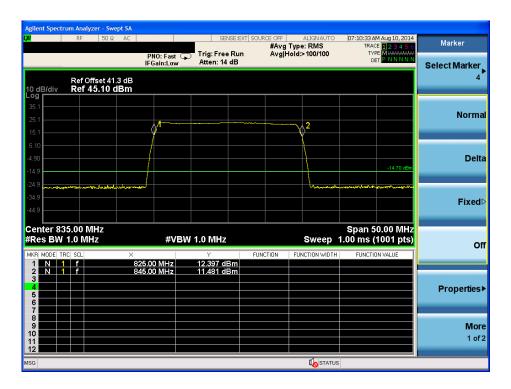


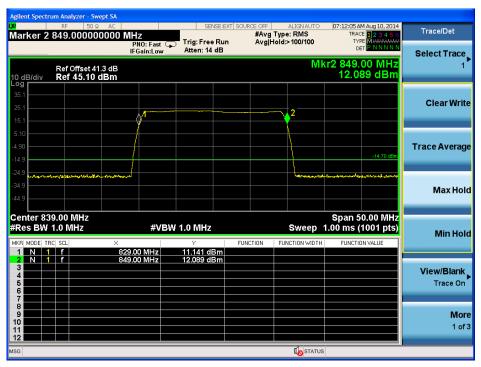
6)Test for Uplink: 824MHz to 849MHz





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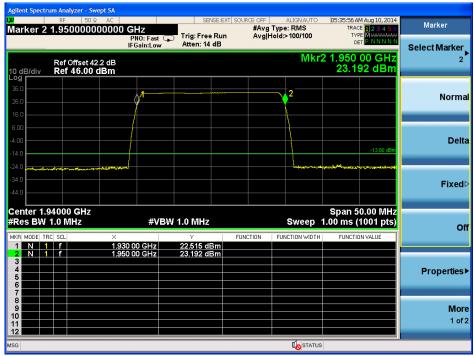


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7) Test for Downlink: 1930MHz to 1995MHz

Remark:

Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm),finally find the worst case as the EUT with Maximum Rated Output power(33dBm)

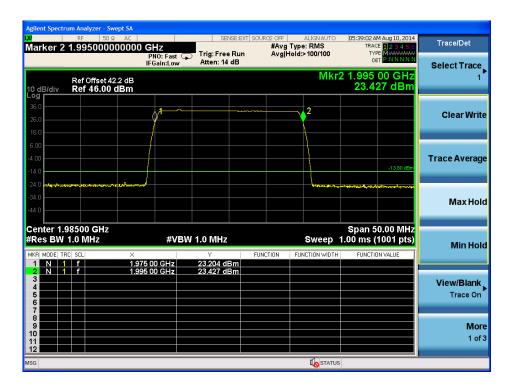


Agilent Spectrum Analyzer - Swep		CENCE-DO	I SOURCE OFF	ALIGNAUTO	05:37:44 AM Aug 10, 2014	
Marker 2 1.97000000		Trig: Free Run	#Avg Typ Avg Hold	e: RMS	TRACE 123456 TYPE M WARANA	Trace/Det
	IFGain:Low	Atten: 14 dB		b dlaw	DET P NNNNN 2 1.970 00 GHz	Select Trace
Ref Offset 42.2 10 dB/div Ref 46.00 dl					22.980 dBm	1
36.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2		Clear Write
26.0	?'			^		Clear Write
6.00						
-4.00				1		Trace Average
-14.0					-13.80 dBm	
-24.0 aparterous lotrecontentine substant	and a start and a start			hannell and a not	งประการสมสัตรณ์และสาวอยู่แรงสาวอยู่แรงสาวอยู่และ	
-44.0						Max Hold
Center 1.96000 GHz					Span 50.00 MHz	
#Res BW 1.0 MHz		N 1.0 MHz			1.00 ms (1001 pts)	Min Hold
MKR MODE TRC SCL	× 1.950 00 GHz	۲ 21.784 dBm	FUNCTION FU	INCTION WIDTH	FUNCTION VALUE	
2 N 1 f	1.970 00 GHz	22.980 dBm				View/Blank
5						Trace On
6 7 8						
9						More
11 12						1 of 3
MSG				I o status		

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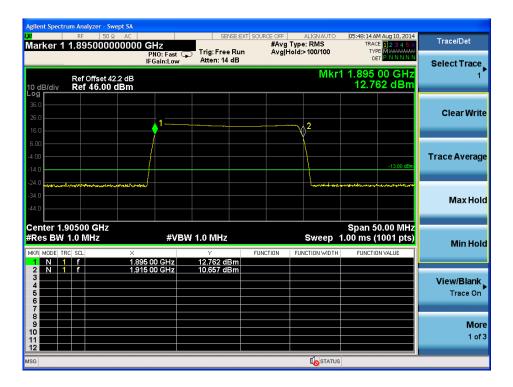
8)Test for Uplink: 1850MHz to 1915MHz

Agilent Spectru	ım Analyzer - Swept SA						
Marker 2	RF 50 Ω AC 1.870000000000		SENSE:EXT	SOURCE OFF	ALIGNAUTO	05:44:00 AM Aug 10, 2014 TRACE 1 2 3 4 5 6	Marker
	1.070000000000	PNO: Fast G IFGain:Low	Trig: Free Run Atten: 14 dB		ld:>100/100	TYPE MUMUUMUU DET PNNNNN	Select Marker
10 dB/div	Ref Offset 42.2 dB Ref 46.00 dBm				Mkr	2 1.870 00 GHz 12.304 dBm	2
Log 36.0 26.0 16.0					2		Norma
6.00 -4.00 -14.0						-13.80 dBm	Delt
-24.0							Fixed
Center 1.8 #Res BW		#VBI	₩ 1.0 MHz	FUNCTION	Sweep 7	Span 50.00 MHz 1.00 ms (1001 pts)	O
1 N 1 2 N 1 3		50 00 GHz 70 00 GHz	13.580 dBm 12.304 dBm				
5 4 5 6							Properties
8 9 10 11 12							Mor 1 of
MSG					I STATUS		



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Agilent Spectrum Analyzer - S						
Marker 2 1.890000				ALIGNAUTO Type: RMS old:>100/100	05:46:15 AM Aug 10, 2014 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Marker
	PNO: Fast ⊂ IFGain:Low	Atten: 14 dB	Avgin	514.> 100/100	DET PNNNN	Select Marker
Ref Offset 4 10 dB/div Ref 46.00				Mkr2	1.890 00 GHz 12.150 dBm	2
36.0 26.0						Normal
16.0				2		
6.00						Delta
-14.0					-13.80 dBm	2 0.14
-24.0	mmummul			Launderen	เป็นข้ามรู้แม่มากรุญมีสาวที่เหมาไม่เสลาสุดรูปทา	
-44.0						Fixed⊳
Center 1.88000 GHz #Res BW 1.0 MHz		N 1.0 MHz		Swoon (Span 50.00 MHz .00 ms (1001 pts)	
	#VB	Y I.U WINZ	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Off
1 N 1 f 2 N 1 f	1.870 00 GHz 1.890 00 GHz	12.787 dBm 12.150 dBm				
3						Properties▶
6						
8						More
10 11 12						1 of 2
MSG						



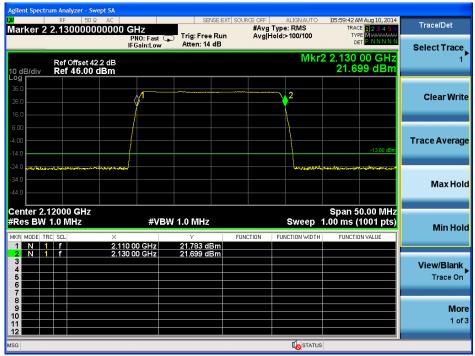


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9)Test for Downlink: 2110MHz to 2155MHz

Remark:

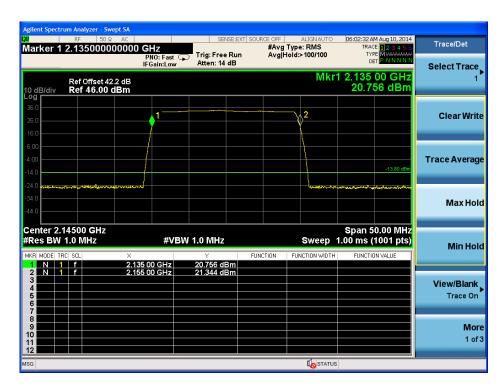
Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm), finally find the worst case as the EUT with Maximum Rated Output power(33dBm).



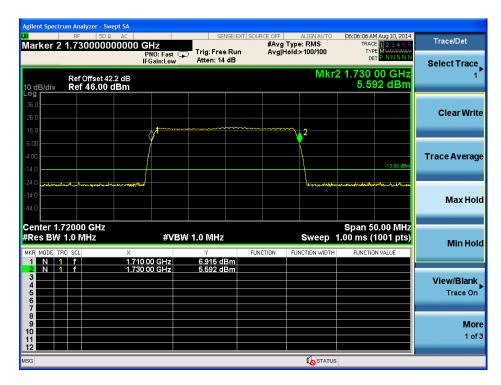
enter Freq 2.13000	PNO: Fast		SOURCE OFF #Avg Typ Avg Hold	ALIGNAUTO ce: RMS d:>100/100	06:01:15 AM Aug 10, 2014 TRACE 1 2 3 4 5 6 TYPE M	Trace/Det
Ref Offset 42.) dB/div Ref 46.00 d		Atten: 14 dB		Mkr	2 2.140 00 GHz 21.737 dBm	Select Trace 1
99 6.0 6.0		· · · · · · · · · · · · · · · · · · ·		2		Clear Wri
00					-13.80 dBm	Trace Avera
4.0	where where we have a second s				an a	Max Ho
enter 2.13000 GHz Res BW 1.0 MHz	×	W 1.0 MHz Y	FUNCTION FI	Sweep	Span 50.00 MHz 1.00 ms (1001 pts) FUNCTION VALUE	Min Ho
1 N 1 f 2 N 1 f 3 4	2.120 00 GHz 2.140 00 GHz	21.490 dBm 21.737 dBm				View/Blani Trace Or
7 8 9 0 1 2						Мс 1 о
G				STATUS	_	



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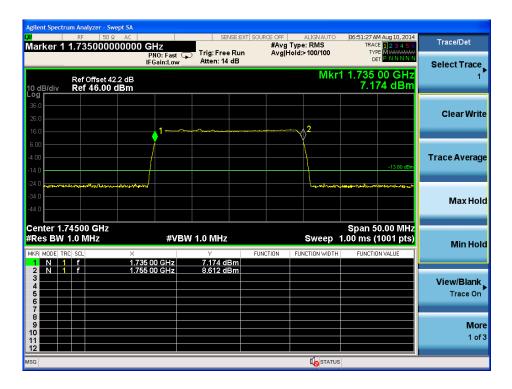
10) Test for uplink: 1710MHz to 1755MHz





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Marker	4 Aug 10, 2014		ALIGNAUTO		SENSE:EX		RF 50 Ω AC	
Select Marker	E M WWWWW F P N N N N N	TYP	old:>100/100		Trig: Free Run Atten: 14 dB	PNO: Fast IFGain:Low	1.740000000000	rker 2
2	00 GHz 39 dBm	1.740 8.03	Mkr2				Ref Offset 42.2 dB Ref 46.00 dBm	dB/div
Norm								
			~_2	~~~~				•
Delt								
	-13.80 dBm						·····	0
Fixed								
	0.00 MHz	Span 5					3000 GHz	
O		.00 ms ("	Sweep 1	FUNCTION	1.0 MHz	#VBW	.0 MHz	ES BW
					6.428 dBm 8.039 dBm	20 00 GHz 40 00 GHz	f 1.7	N 1 N 1
Properties								
Mor 1 of								





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11)Test for Downlink: 2620MHz to 2690MHz

Remark:

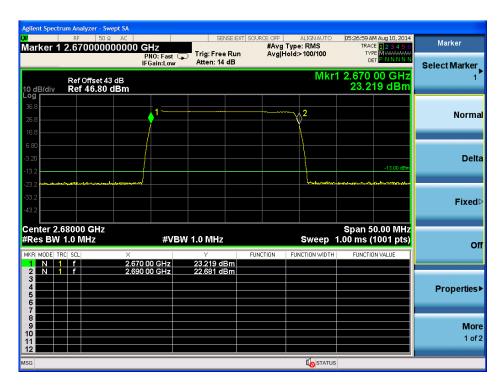
Pretest the EUT with Maximum Rated Output Power(27dBm,30dBm,33dBm), finally find the worst case as the EUT with Maximum Rated Output power(33dBm).

							m Analyzer - Swe	
123456 Marker	05:29:38 AM Aug 10, 2014 TRACE 1 2 3 4 5 6 TYPE M WARAANA	ALIGNAUTO e: RMS I:>100/100	SOURCE OFF				RF 50 Ω	a Marker 1
Select Marker	DET P N N N N N	1.>100/100	Avgir	Trig: Free Rur Atten: 14 dB	PNO: Fast 🕞 Gain:Low			
0 GHz 1 [°] 5 dBm	2.620 00 GHz 23.845 dBm	Mkr					Ref Offset 43 Ref 46.80 d	I0 dB/div
Norma		¢ ²			1			36.8 26.8
-13.00 dBm	42.00 45-							16.8 6.80 3.20
Fixed	-13.00 dom	Luinna					and an and a state of the state	-13.2 -23.2 -33.2
	Span 50.00 MHz						3000 GHz	43.2
001 pts) Of	1.00 ms (1001 pts)	Sweep	FUNCTION	1.0 MHz		×	SCL	Res BW
Properties				23.845 dBm 23.227 dBm	00 GHz 00 GHz	2.620 (1 N 1 2 N 1 3 4 5 5 6
Mor 1 of:								7 8 9 10 11 12
		STATUS						ISG

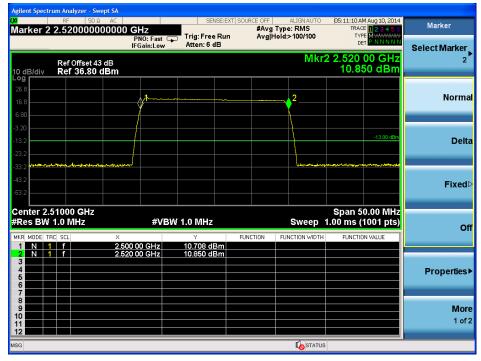
arker 2	RF 50 Ω A 2.665000000	000 GHz		SOURCE OFF ALIGN #Avg Type: RM	S TRACE 12345 6	Marker
		PNO: Fast C IFGain:Low	Trig: Free Run Atten: 14 dB	Avg Hold:>100/	100 TYPE MUNICIPAL TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	Select Marke
) dB/div	Ref Offset 43 dE Ref 46.80 dB				Mkr2 2.665 00 GHz 23.169 dBm	
og 6.8		¢*		2		Norm
6.8 .80 .20 3.2					-13.00 dBm	De
3.2 3.2 3.2 					toga sayla a aga a nga no tao na a ga tao tao tao na a	Fixe
	65500 GHz 1.0 MHz	#VB	W 1.0 MHz	Swe	Span 50.00 MHz ep 1.00 ms (1001 pts)	
(r) mode tr	RC SCL	× 2.645 00 GHz	Y 23.611 dBm	FUNCTION FUNCTION	WIDTH FUNCTION VALUE	
2 N 1	f	2.665 00 GHz	23.169 dBm			Propertie
						M d 1 c



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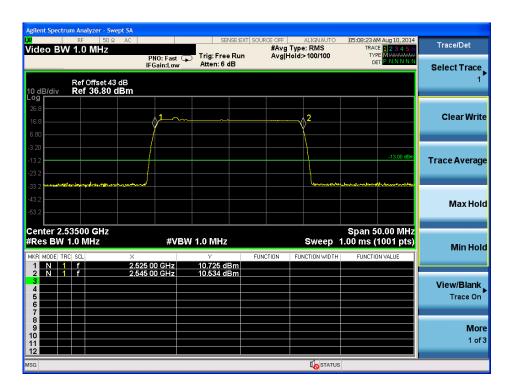


12)Test for Uplink: 2500MHz to 2570MHz





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Agilent Spectrum Analyzer - Swept SA						
M RF 50 Ω AC Center Freq 2.560000000 G				ALIGNAUTO Type: RMS	05:13:18 AM Aug 10 TRACE 1 2 3 TYPE MWW	45.6 Frequency
	PNO: Fast 😱 FGain:Low	Trig: Free Run Atten: 6 dB	AvgjH	lold:>100/100	DET P N N	NNN
Ref Offset 43 dB 10 dB/div Ref 36.80 dBm				Mkr1	2.550 00 G 10.435 dl	
Log 26.8 16.8	1	·				Center Freq 2.560000000 GHz
-3.20 -13.2 -23.2					-13.0	0 dBm 2.535000000 GHz
-33.2 +++++++++++++++++++++++++++++++++++						Stop Freq 2.585000000 GHz
Center 2.56000 GHz #Res BW 1.0 MHz	#VBW	1.0 MHz		Sweep 1	Span 50.00 ľ .00 ms (1001 j	VIHz pts) CF Step 5.000000 MHz
	00 GHz	Y 10.435 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Man
2 N 1 f 2.570 3 4 5 5 5 6 6	00 GHz	9.417 dBm				Freq Offset 0 Hz
7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10						
MSG				I STATUS		



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7.2.7 Frequency Stability

	,				
Test Date:	2013-03-19				
Test Requirement:	FCC part 22.355 & 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 ℃ to 50 ℃ with step 10 ℃				
	 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:

1) Frequency Stability vs temperature:

Temperature(°C)	Frequency(MHz)	Tolerance(ppm)
50	733.0000029	0.00095479
40	733.0000025	0.00040927
30	733.0000021	-0.00013642
20	733.0000022	Reference
10	733.0000024	0.00027285
0	733.0000022	0
-10	733.0000019	-0.00040927
-20	733.0000031	-0.00122783
-30	733.0000030	0.00109140
-40	733.0000021	-0.00013642

1.2) Test for Downlink: 698~716MHz (middle channel 707MHz)

Temperature(°C)	Frequency(MHz)	Tolerance(ppm)
50	707.0000025	0.00026277
40	707.0000024	0.00042432
30	707.0000023	-0.00028288
20	707.0000021	Reference
10	707.0000025	0.00056577
0	707.0000026	0.00070721
-10	707.0000019	-0.00028288
-20	707.0000033	0.00016973
-30	707.0000030	0.00147290
-40	707.0000025	0.00056577

1.3) Test for Downlink: 746~757MHz (middle channel 751.5MHz)

Temperature(°C)	Frequency(MHz)	Tolerance(ppm)
50	751.5000031	0.001064538
40	751.5000024	0.000133067
30	751.5000022	-0.00013307
20	751.5000023	Reference
10	751.5000025	0.000266134
0	751.5000026	0.000399202
-10	751.5000019	-0.00053227
-20	751.5000033	0.001330672
-30	751.5000030	0.00093147
-40	751.5000025	0.000266134



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1.4) Test for Downlink: 776~787MHz (middle channel 781.5MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	781.5000031	0.000896
40	781.5000024	0
30	781.5000022	-0.00026
20	781.5000024	Reference
10	781.5000025	0.000128
0	781.5000026	0.000256
-10	781.5000019	-0.00064
-20	781.5000032	0.001024
-30	781.5000031	0.000896
-40	781.5000026	0.000256

1.5) Test for Downlink: 869~894MHz (middle channel 881.5MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	881.5000031	0.001021
40	881.5000025	0.00034
30	881.5000021	-0.00011
20	881.5000022	Reference
10	881.5000027	0.000567
0	881.5000024	0.000227
-10	881.5000018	-0.00045
-20	881.5000031	0.001021
-30	881.5000032	0.001134
-40	881.5000026	0.000454

1.6) Test for Downlink: 824~849MHz (middle channel 836.5MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	836.5000030	0.001076
40	836.5000025	0.000478
30	836.5000023	0.000239
20	836.5000021	Reference
10	836.5000027	0.000717
0	836.5000028	0.000837
-10	836.5000019	-0.00024
-20	836.5000030	0.001076
-30	836.5000033	0.001435
-40	836.5000027	0.000717



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

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	1962.5000030	0.000509554
40	1962.5000025	0.000254777
30	1962.5000021	0.0000509554
20	1962.5000020	Reference
10	1962.5000024	0.000203822
0	1962.5000028	0.000407643
-10	1962.5000020	0
-20	1962.5000031	0.00056051
-30	1962.5000032	0.000611465
-40	1962.5000027	0.000356688

1.8) Test for Downlink: 1850~1910MHz (middle channel1882.5MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	1882.5000030	0.000424967
40	1882.5000025	0.000159363
30	1882.5000021	0.000053120
20	1882.5000022	Reference
10	1882.5000027	0.000265604
0	1882.5000025	0.000159363
-10	1882.5000018	-0.000212483
-20	1882.5000030	0.000424967
-30	1882.5000031	0.000478088
-40	1882.5000029	0.000371846

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

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	2132.5000031	0.000515826
40	2132.5000026	0.00028136
30	2132.5000023	0.00014068
20	2132.5000020	Reference
10	2132.5000024	0.000187573
0	2132.5000023	0.000140680
-10	2132.5000022	0.000093786
-20	2132.5000027	0.000328253
-30	2132.5000031	0.000515826
-40	2132.5000025	0.000234467



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1.10) Test for Downlink: 1710~1755MHz (middle channel 1732.5MHz)

Temperature(°C)	Frequency(MHz)	Tolerance(ppm)
50	1732.5000029	0.00034632
40	1732.5000022	0.0000577201
30	1732.5000021	-0.00011544
20	1732.5000023	Reference
10	1732.5000024	0.000187573
0	1732.5000023	0.00014068
-10	1732.5000018	0.000093786
-20	1732.5000031	0.000328253
-30	1732.5000032	0.000515826
-40	1732.5000027	0.000234467

1.11) Test for Downlink: 2620~2690MHz (middle channel 2655MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	2655.0000029	0.000188324
40	2655.0000023	-0.000037664
30	2655.0000021	-0.000112994
20	2655.0000024	Reference
10	2655.0000026	0.000075329
0	2655.0000025	0.000037664
-10	2655.0000018	-0.000225989
-20	2655.0000030	0.000225989
-30	2655.0000029	0.000188324
-40	2655.0000026	0.000075329

1.12) Test for Downlink: 2500~2570MHz (middle channel 2535MHz)

Temperature(℃)	Frequency(MHz)	Tolerance(ppm)
50	2535.0000028	0.000197
40	2535.0000026	0.000118
30	2535.0000024	0.00003940
20	2535.0000023	Reference
10	2535.0000022	-0.0000394477
0	2535.0000021	-0.0000788955
-10	2535.0000023	0
-20	2535.0000029	0.000236686
-30	2535.0000027	0.000157791
-40	2535.0000025	0.000078895



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2) Frequency Stability vs voltage:

2.1) For AC supplied:

2.1.1) Test for Downlink:728~746MHz (middle channel 733MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	733.0000025	0.000409277
120	733.0000022	Reference
138 (120*1.15)	733.0000027	0.000682128

2.1.2) Test for Downlink: 698~716MHz (middle channel 707MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	707.0000024	0.000424328
120	707.0000021	Reference
138 (120*1.15)	707.0000025	0.000565771

2.1.3) Test for Downlink: 746~757MHz (middle channel 751.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	751.5000027	0.000532269
120	751.5000023	Reference
138 (120*1.15)	751.5000022	-0.000133067

2.1.4) Test for Downlink: 776~787MHz (middle channel 781.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	781.5000026	0.000255918
120	781.5000024	Reference
138 (120*1.15)	781.5000027	-0.003454894

2.1.5) Test for Downlink: 869~894MHz (middle channel 881.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	881.5000020	-0.000226886
120	881.5000022	Reference
138 (120*1.15)	881.5000025	0.000340329

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2.1.6) Test for Downlink:824~849MHz (middle channel 836.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	836.5000024	0.000358637
120	836.5000021	Reference
138 (120*1.15)	836.5000027	0.000717274

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

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	1962.5000022	0.000101911
120	1962.5000020	Reference
138 (120*1.15)	1962.5000023	0.000152866

2.1.8) Test for Downlink: 1850~1910MHz (middle channel 1962.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	1882.5000027	0.000265604
120	1882.5000022	Reference
138 (120*1.15)	1882.5000024	0.000106242

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

_			
	Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
	102 (120*0.85)	2132.5000025	0.000234467
	120	2132.5000020	Reference
	138 (120*1.15)	2132.5000021	0.0000468933

2.1.10) Test for Downlink: 1710~1755MHz (middle channel 1732.5MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	1732.5000021	-0.00011544
120	1732.5000023	Reference
138 (120*1.15)	1732.5000024	0.000057720

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2.1.11) Test for Downlink: 2620~2690MHz (middle channel 2655MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	2655.0000022	-0.0000753296
120	2655.0000024	Reference
138 (120*1.15)	2655.0000021	-0.000112994

2.1.12) Test for Downlink: 2500~2570MHz (middle channel 2535MHz)

Voltage(V AC)	Frequency(MHz)	Tolerance(ppm)
102 (120*0.85)	2535.0000024	0.000039447
120	2535.0000023	Reference
138 (120*1.15)	2535.0000020	-0.000118343

--The End of Report--