

Product	CBS 3.65GHz			
Test Item	Spectrum Emission Mask			
	Mode 4: Transmit (5MHz BW_QPSK3/4)			
Test Mode	Mode 5: Transmit (5MHz BW_16QAM1/2)			
	Mode 6: Transmit (5MHz BW_64QAM2/3)			
Date of Test	2011/12/23	Test Site	SR7	

## 5MHz Bandwidth, Antenna Gain: 16dBi

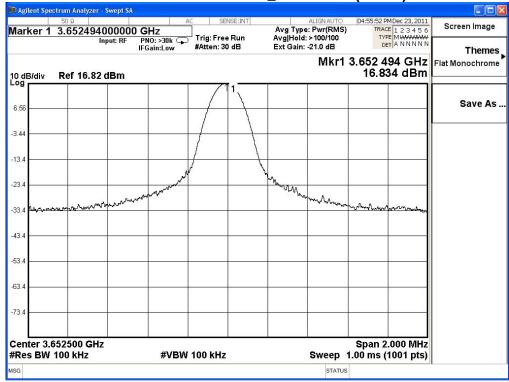
Frequency (MHz)	Modulation	Test Result
3652.5	QPSK3/4	PASS
3662.5	QPSK3/4	PASS
3672.5	QPSK3/4	PASS
Frequency (MHz)	Modulation	Test Result
3652.5	16QAM1/2	PASS
3662.5	16QAM1/2	PASS
3672.5	16QAM1/2	PASS
Frequency (MHz)	Modulation	Test Result
3652.5	64QAM2/3	PASS
3662.5	64QAM2/3	PASS
3672.5	64QAM2/3	PASS

Note: Set the RBW to 100kHz, and the mask limit was be reduced 10log(1MHz/100kHz)=10dB.

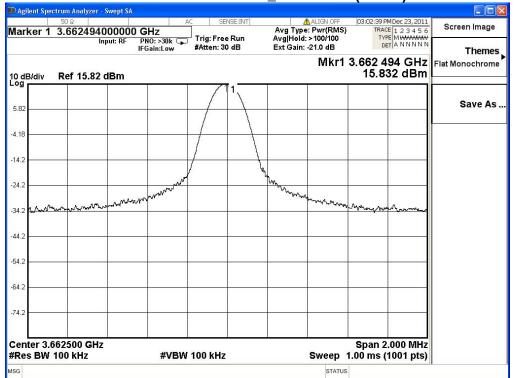
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Reference Level: 5MHz\_3652.5MHz (ANT 0)

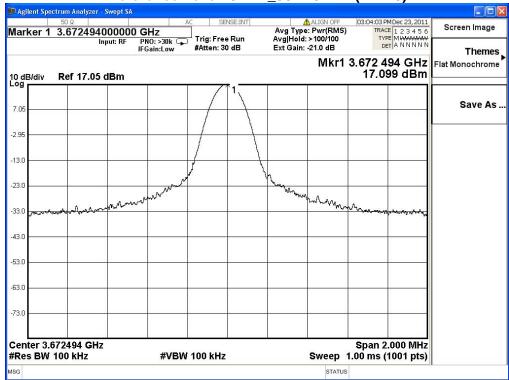


Reference Level: 5MHz\_3662.5MHz (ANT 0)

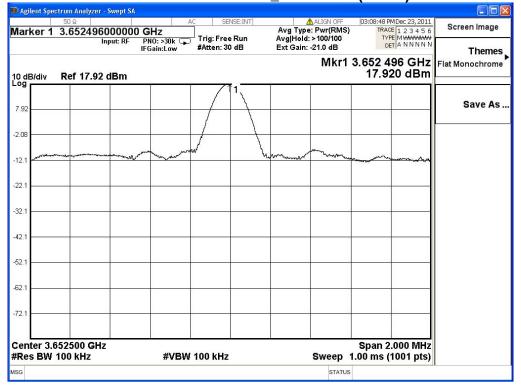




Reference Level: 5MHz\_3672.5MHz (ANT 0)

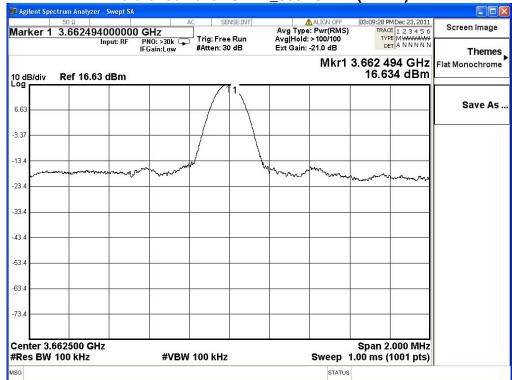


Reference Level: 5MHz\_3652.5MHz (ANT 1)

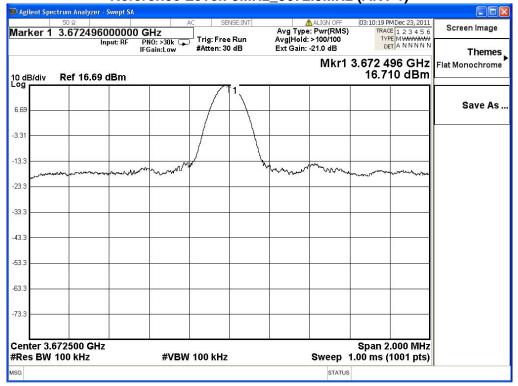




Reference Level: 5MHz\_3662.5MHz (ANT 1)

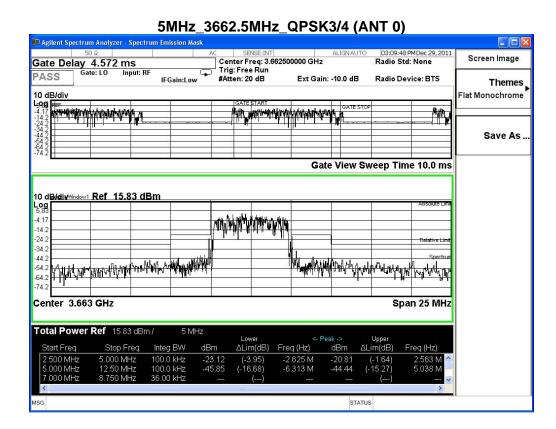


Reference Level: 5MHz\_3672.5MHz (ANT 1)

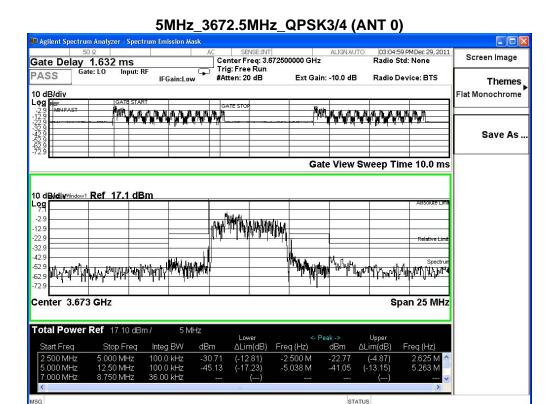




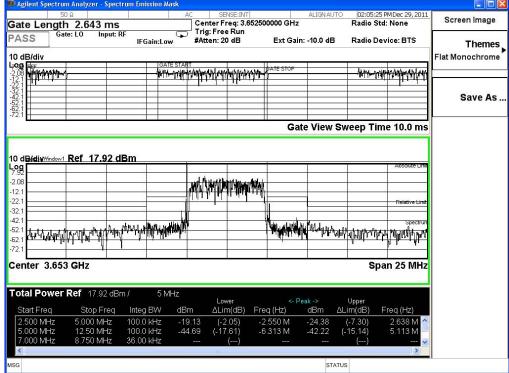
5MHz\_3652.5MHz\_QPSK3/4 (ANT 0) Screen Image Center Freq: 3.652500000 GHz Trig: Free Run Gate Delay 5.082 ms Radio Std: None PASS Ext Gain: -10.0 dB IFGain:Low #Atten: 20 dB Radio Device: BTS Themes 10 dB/div lat Monochrome Save As . Gate View Sweep Time 10.0 ms 10 dB/dis/Window1 Ref 16.58 dBm 13.4 23.4 33.4 Town the state of -43. MATTER STATE OF THE STATE OF TH -63.4 Center 3.653 GHz Span 25 MHz Total Power Ref 16.58 dBm / Upper ΔLim(dB) Lower ΔLim(dB) Freq(Hz) Start Freq dBm Frea (Hz) 5.000 MHz 12.50 MHz 2 500 MHz 100.0 kHz -20.44 -44.42 (-3.84) (-16.05) -2.638 M -5.863 M (-2.02) (-16.00)



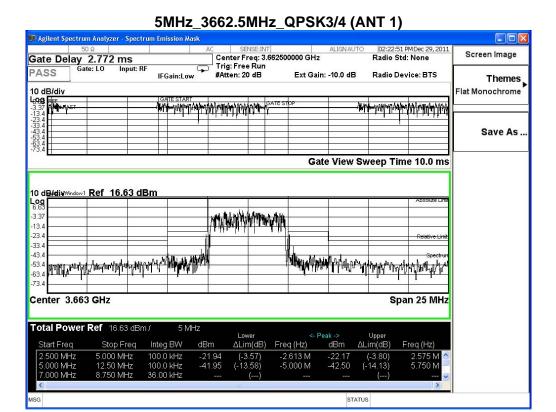


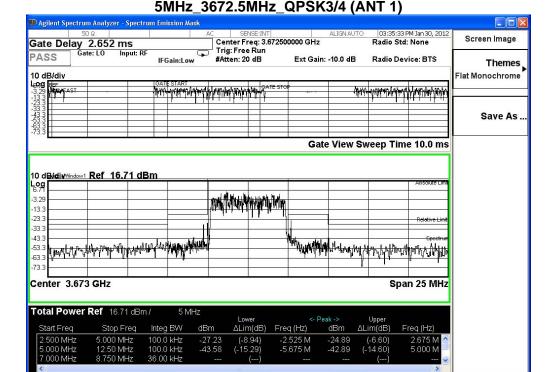


## 5MHz\_3652.5MHz\_QPSK3/4 (ANT 1)





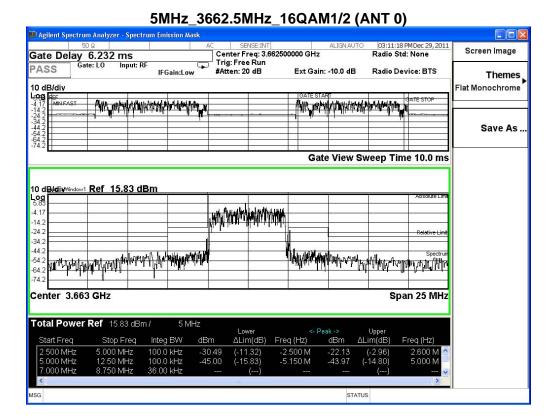




STATUS



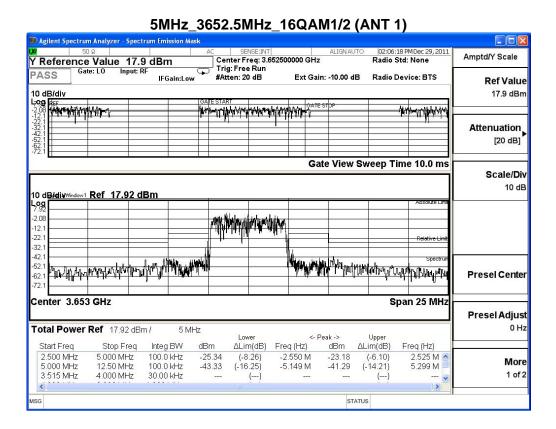
5MHz\_3652.5MHz\_16QAM1/2 (ANT 0) 🗎 Agilent Spectrum Analyzer - Spectrum E SENSE:INT
Center Freq: 3.652500000 GHz
Trig: Free Run
#Atten: 20 dB Ext Gain 03:16:32 PMDec 29, 2011 Radio Std: None Screen Image Gate Delay 6.062 ms PASS Radio Device: BTS IFGain:Low **Themes** 10 dB/div Flat Monochrome Save As . Gate View Sweep Time 10.0 ms 10 dB/diw/wndow1 Ref 16.58 dBm HALL THE PARTY OF 13.4 33.4 A CANADA HANDA HAN 53.4 -63.4 Center 3.653 GHz Span 25 MHz Total Power Ref 16.58 dBm / ΔLim(dB) Freq (Hz) Freq (Hz) -2.500 M -5.038 M (-13.60) (-15.32) -20.51 -43.78 -32.02 -43.74 (-2.09) (-15.3<u>6</u>) 2.538 M 5.038 M



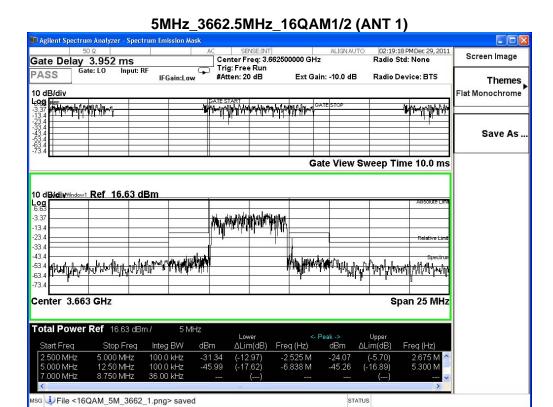


5MHz\_3672.5MHz\_16QAM1/2 (ANT 0) 🗎 Agilent Spectrum Analyzer - Spectrum Emission Mas SENSE:INT
Center Freq: 3.672500000 GHz
Trig: Free Run
#Atten: 20 dB Ext Gain 03:03:58 PMDec 29, 2011 Radio Std: None Screen Image Gate Delay 2.282 ms PASS Radio Device: BTS IFGain:Low **Themes** 10 dB/div Flat Monochrome Save As . Gate View Sweep Time 10.0 ms 10 dB#di#Window1 Ref 17.1 dBm 12.9 32.9 April 1 The Control of The live and the following the live of the -62.9 Center 3.673 GHz Span 25 MHz Total Power Ref 17.10 dBm / ΔLim(dB) Freq (Hz) Freq (Hz) Start Freq 5.000 MHz 12.50 MHz 8.750 MHz (-13.43) (-15.40) (-3.17) (-14.73) -2.600 M -5.075 M -31.33 -43.30 -21.07 -42.63 2.588 M 5.675 M

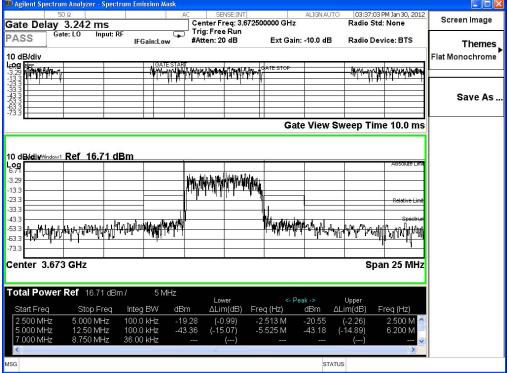
STATUS







## 5MHz\_3672.5MHz\_16QAM1/2 (ANT 1)

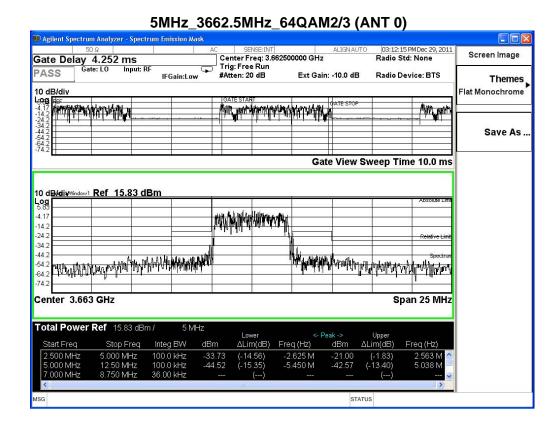




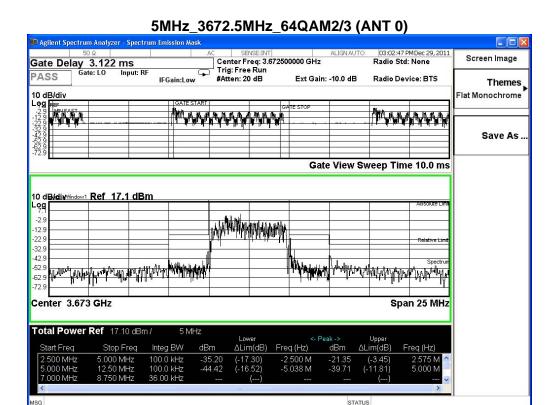
5MHz\_3652.5MHz\_64QAM2/3 (ANT 0) Agilent Spectrum Analyzer - Spectrum SENSE:INT

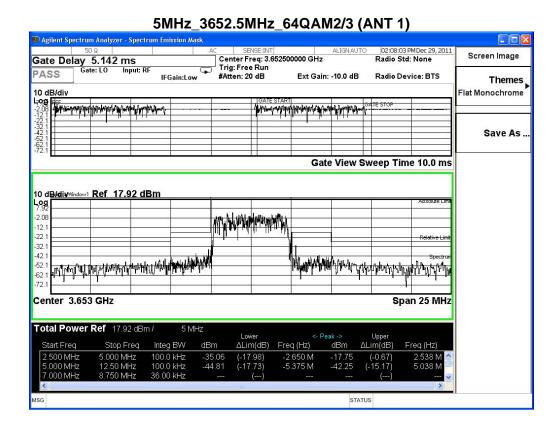
Center Freq: 3.652500000 GHz
Trig: Free Run
#Atten: 20 dB Ext Gain 03:13:44 PMDec 29, 2011 Radio Std: None Screen Image Y Reference Value 16.6 dBm Input: RF PASS Radio Device: BTS **Themes** 10 dB/div Flat Monochrome Save As . Gate View Sweep Time 10.0 ms 10 dB/diw/wndow1 Ref 16.58 dBm 13.4 33.4 PAPER AND PROPERTY OF THE PROP 53.4 -63.4 Center 3.653 GHz Span 25 MHz Total Power Ref 16.58 dBm / ΔLim(dB) Freq (Hz) Freq (Hz) 5.000 MHz 12.50 MHz (-3.38) (-14.01) -30.77 -43.78 (-12.35) (-15.36) -2.588 M -5.000 M -21.80 -42.43 2.600 M 5.150 M

STATUS



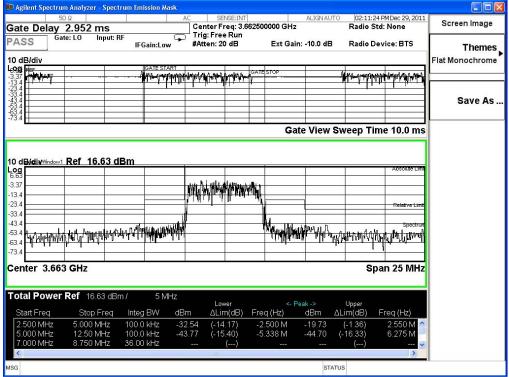








5MHz\_3662.5MHz\_64QAM2/3 (ANT 1)



5MHz\_3672.5MHz\_64QAM2/3 (ANT 1)

