

D.3: 26dB Bandwidth and Occupied Bandwidth

Channel Bandwidth 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0781	1.233	PASS
	MCH	6	0	1.0753	1.201	PASS
	HCH	6	0	1.0778	1.233	PASS
16QAM	LCH	6	0	1.0801	1.238	PASS
	MCH	6	0	1.0796	1.220	PASS
	HCH	6	0	1.0768	1.217	PASS

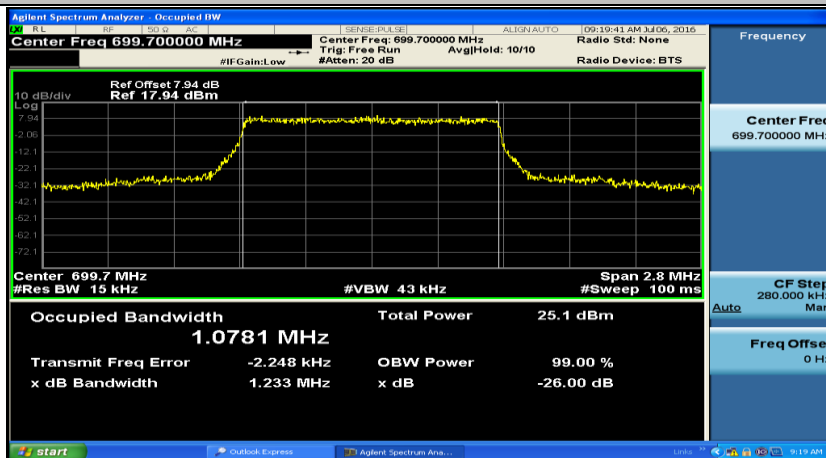
Channel Bandwidth 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6857	2.871	PASS
	MCH	15	0	2.6808	2.865	PASS
	HCH	15	0	2.6821	2.897	PASS
16QAM	LCH	15	0	2.6895	2.878	PASS
	MCH	15	0	2.6785	2.888	PASS
	HCH	15	0	2.6895	2.878	PASS

Channel Bandwidth 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4926	4.866	PASS
	MCH	25	0	4.4733	4.804	PASS
	HCH	25	0	4.4819	4.850	PASS
16QAM	LCH	25	0	4.4922	4.802	PASS
	MCH	25	0	4.4754	4.818	PASS
	HCH	25	0	4.4937	4.839	PASS

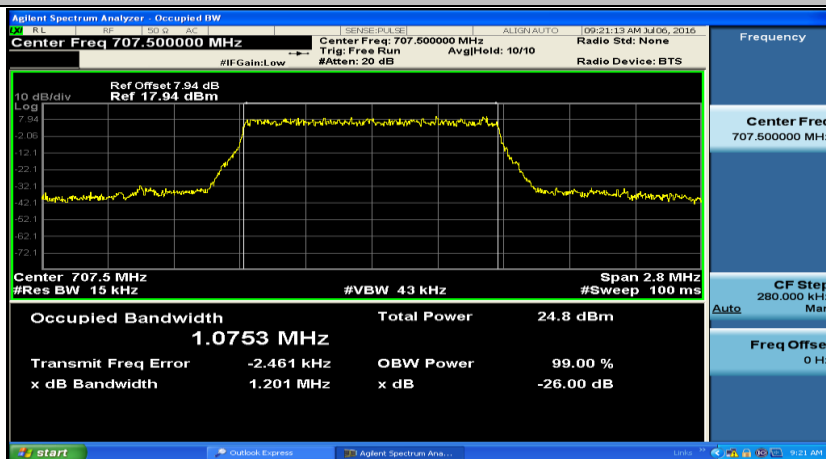
Channel Bandwidth 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9622	9.527	PASS
	MCH	50	0	8.9274	9.476	PASS
	HCH	50	0	8.9620	9.446	PASS
16QAM	LCH	50	0	8.9553	9.515	PASS
	MCH	50	0	8.9169	9.443	PASS
	HCH	50	0	8.9606	9.465	PASS

Test Graphs

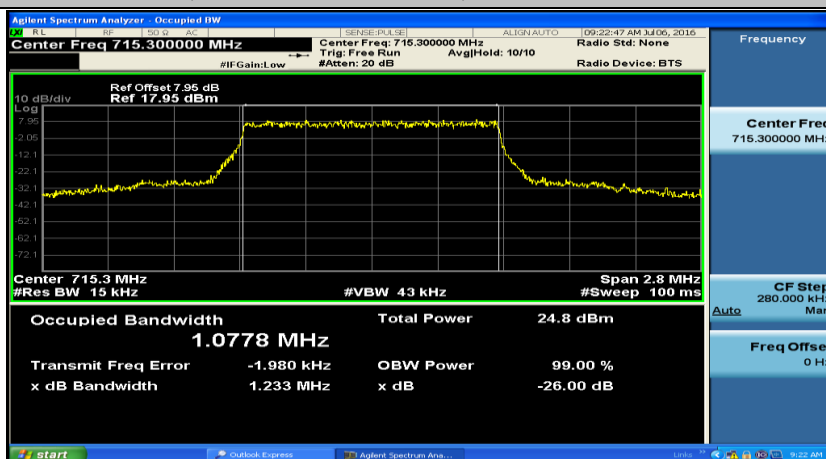
(Channel Bandwidth 1.4 MHz)_LCH_QPSK_6RB#0



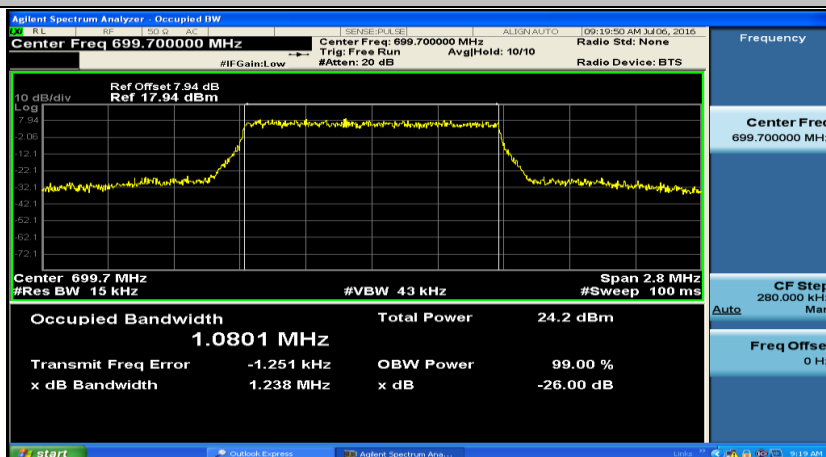
(Channel Bandwidth 1.4 MHz)_MCH_QPSK_6RB#0



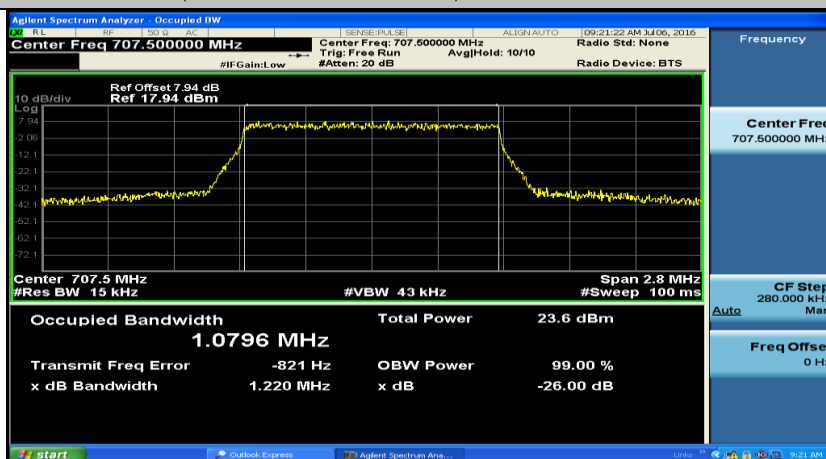
(Channel Bandwidth 1.4 MHz)_HCH_QPSK_6RB#0



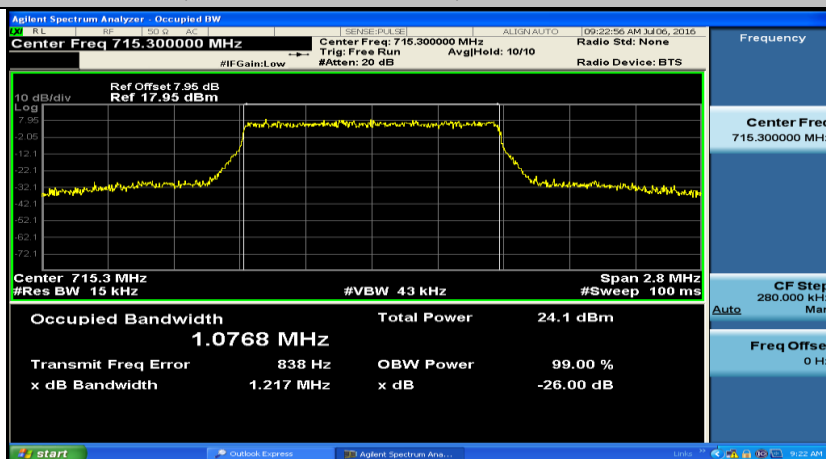
(Channel Bandwidth 1.4 MHz)_LCH_16QAM_6RB#0



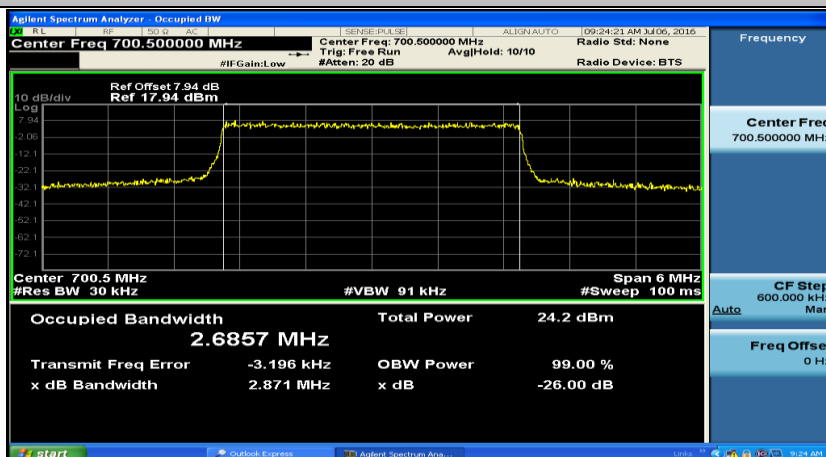
(Channel Bandwidth 1.4 MHz)_MCH_16QAM_6RB#0



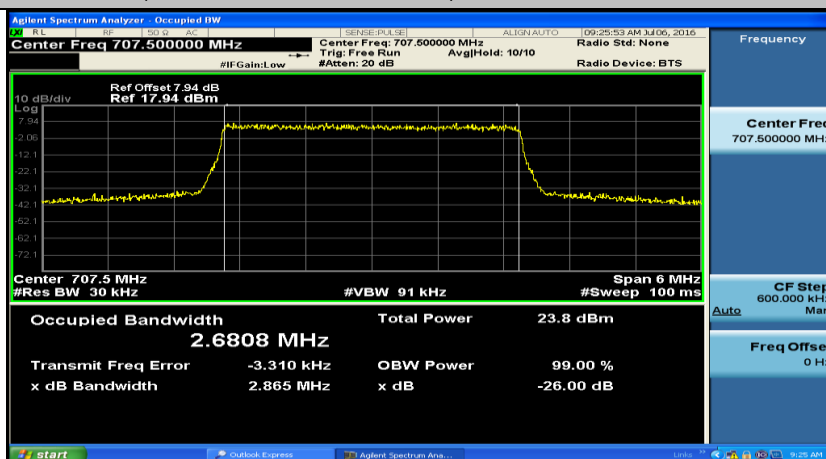
(Channel Bandwidth 1.4 MHz)_HCH_16QAM_6RB#0



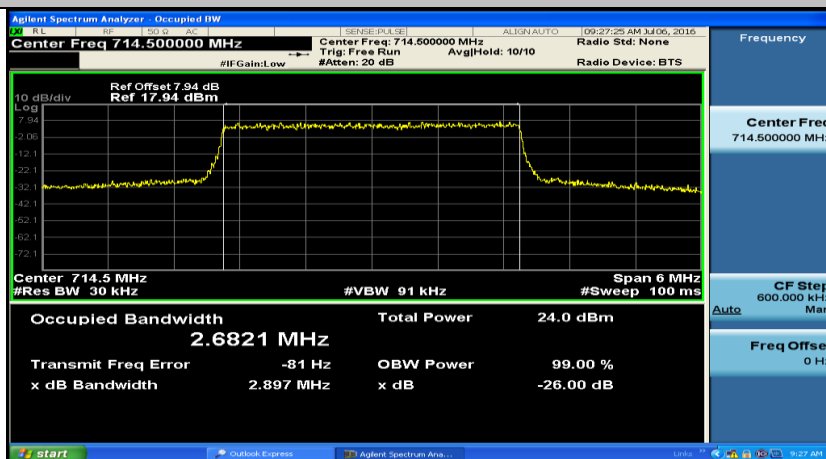
(Channel Bandwidth 3 MHz)_LCH_QPSK_15RB#0



(Channel Bandwidth 3 MHz)_MCH_QPSK_15RB#0



(Channel Bandwidth 3 MHz)_HCH_QPSK_15RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 700.500000 MHz

Trig: Free Run

Span: 6 MHz

Res BW: 30 kHz

Occupied Bandwidth: 2.6895 MHz

Total Power: 23.3 dBm

Transmit Freq Error: -4.307 kHz

OBW Power: 99.00 %

x dB Bandwidth: 2.878 MHz

x dB: -26.00 dB

Frequency: 700.500000 MHz

Radio Std: None

Radio Device: BTS

IF Gain: Low

IF Offset: 7.94 dB

Ref: 17.94 dBm

Span: 6 MHz

Sweep: 100 ms

CF Stop: 600.000 kHz

Auto

Freq Offset: 0 Hz

Agilent Spectrum Analyzer - Occupied BW

Center Freq 707.500000 MHz

Ref Offset 7.94 dB
Ref 17.94 dBm

10 dB/div
Log

Center 707.5 MHz
#Res BW 30 kHz

#VBW 91 kHz

Span 6 MHz
#Sweep 100 ms

Occupied Bandwidth

2.6785 MHz

Transmit Freq Error -2.480 kHz

x dB Bandwidth 2.888 MHz

Total Power 22.9 dBm

OBW Power 99.00 %

x dB -26.00 dB

Frequency

Center Freq 707.500000 MHz

CF Step 600.000 kHz

Auto

Freq Offset 0 Hz

start Outlook Express Agilent Spectrum Ana... 100% 9:26 AM

Agilent Spectrum Analyzer - Occupied BW

SENSE: FPL30 ALG: AUTO 109:27:34 AM 3/10/2016

Center Freq 714.500000 MHz Center Freq: 714.500000 MHz Radio Std: None Frequency
 Trig: Free Run AvgHld: 10/10
 #IF Gain: Low #Atten: 20 dB Radio Device: BTS

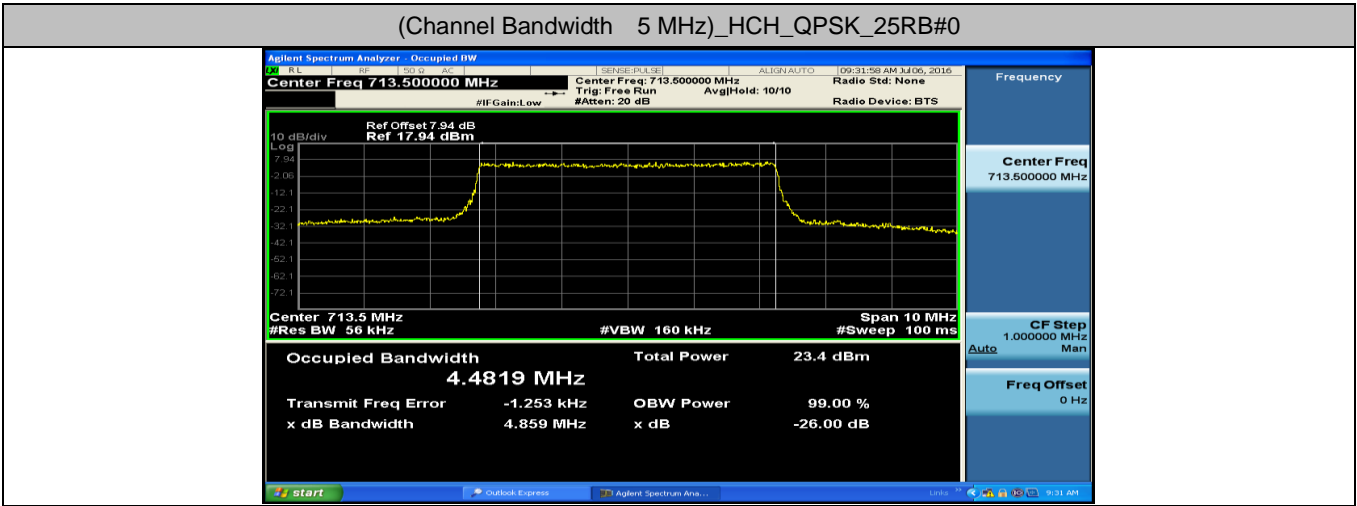
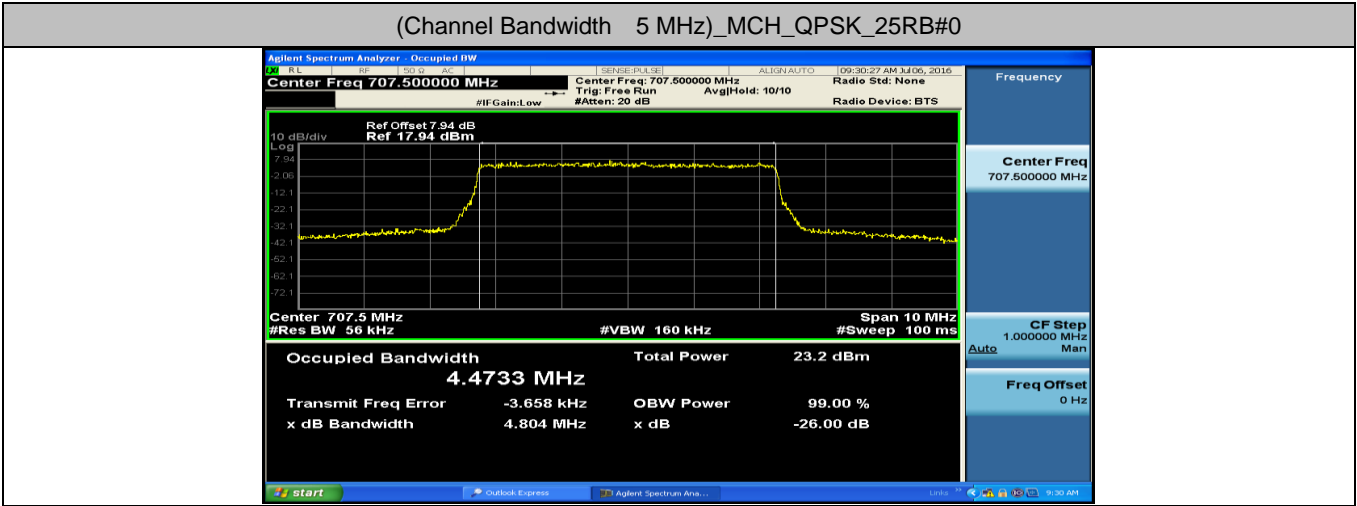
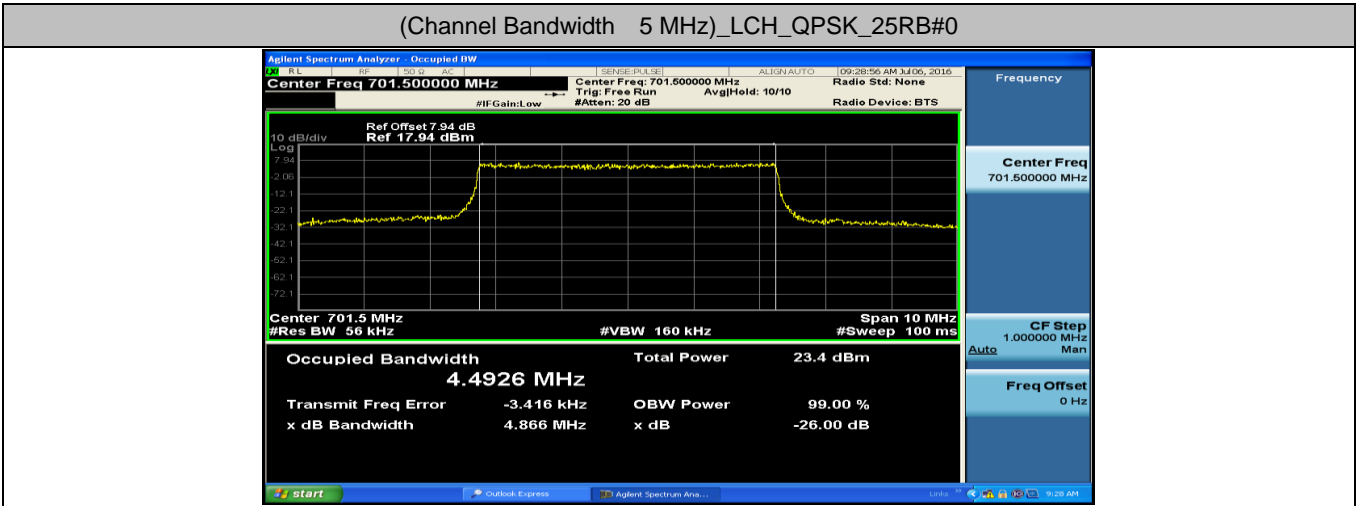
10 dB/div Ref Offset 7.94 dB
 Log Ref 17.94 dBm

Center 714.5 MHz Span 6 MHz
 #Res BW 30 kHz #VBW 91 kHz #Sweep 100 ms

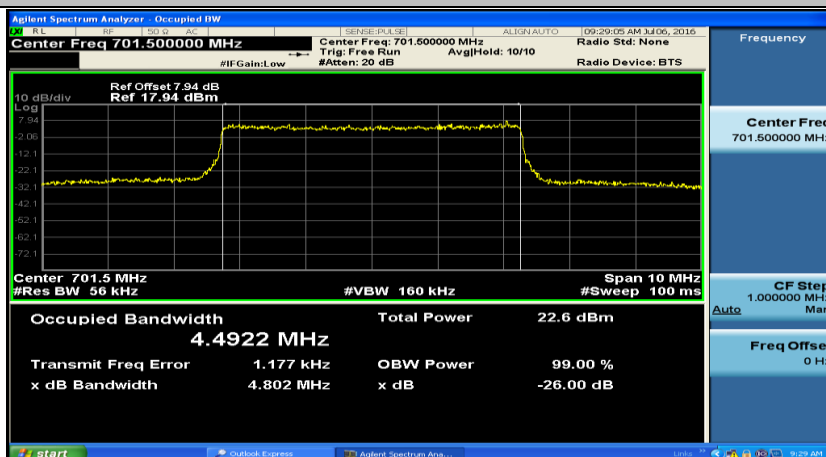
Occupied Bandwidth	Total Power	23.2 dBm
2.6895 MHz		
Transmit Freq Error	-1.020 kHz	OBW Power 99.00 %
x dB Bandwidth	2.878 MHz	x dB -26.00 dB

CF Stop 600.000 kHz
 Auto Mar
 Freq Offset 0 Hz

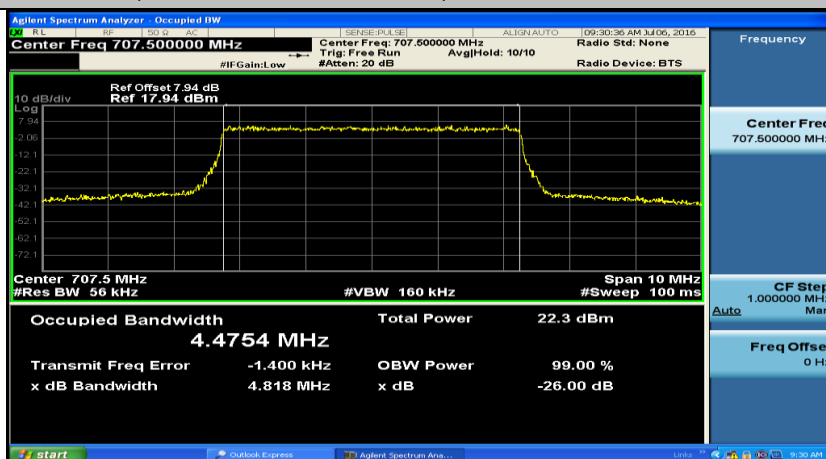
start Outlook-Express Agilent Spectrum Ana... 100% 9:27 AM



(Channel Bandwidth 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth 5 MHz)_MCH_16QAM_25RB#0



(Channel Bandwidth 5 MHz)_HCH_16QAM_25RB#0

