

3.4 Emission Mask

3.4.1 Limit of Emission Mask

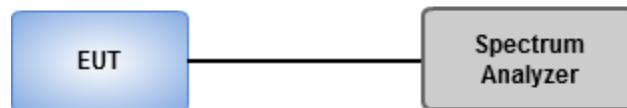
The power of any emission must be attenuated below the unmodulated carrier power (P) as follows.

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB.

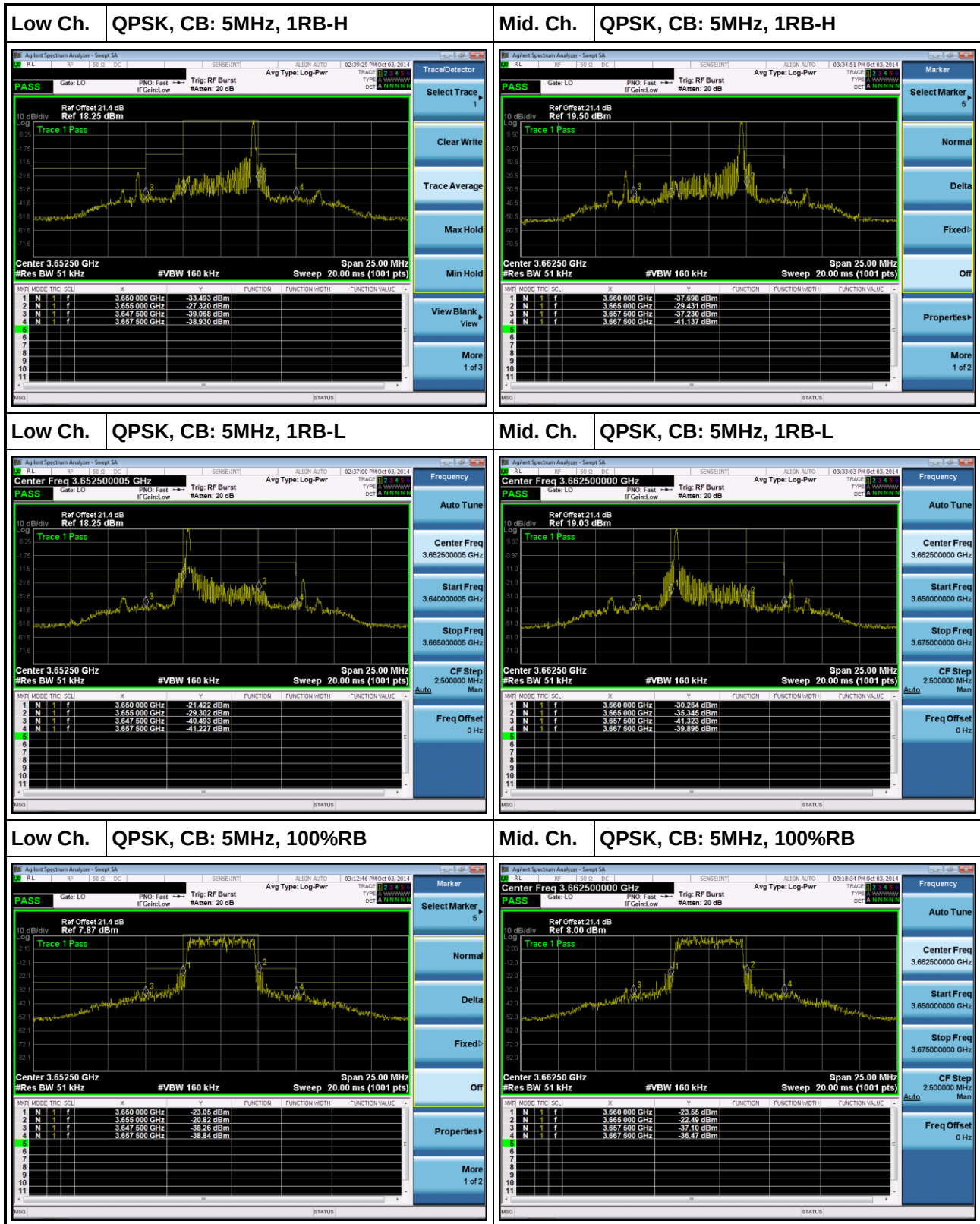
3.4.2 Test Procedures

1. Set RBW=1% of 26dBc bandwidth, VBW=3 X RBW, detector=RMS, Sweep time = Auto.
2. Set EUT to transmit modulation signal to spectrum analyzer and confirm that the signal complies the limit or not.
3. Record the max trace value and capture the test plot.

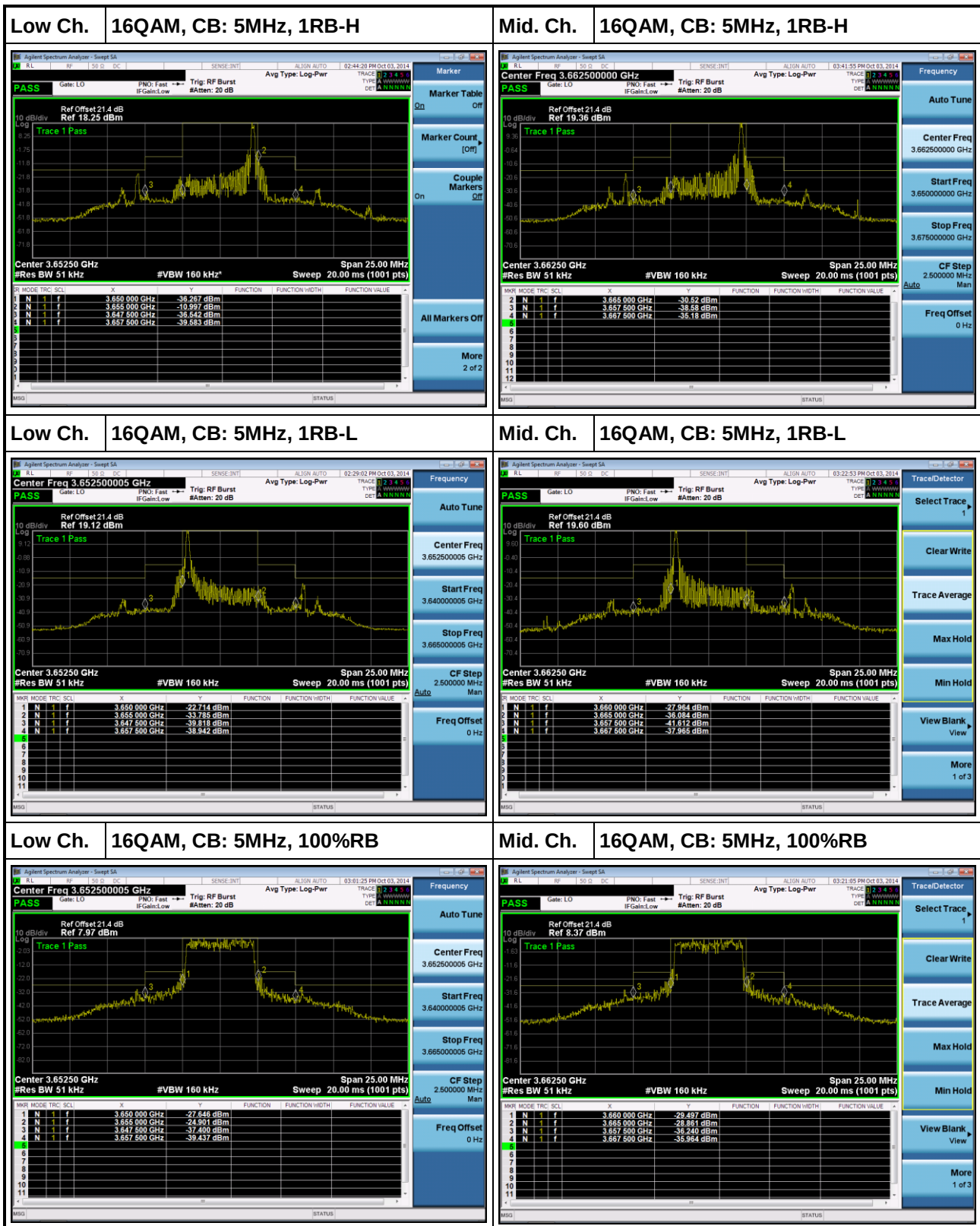
3.4.3 Test Setup

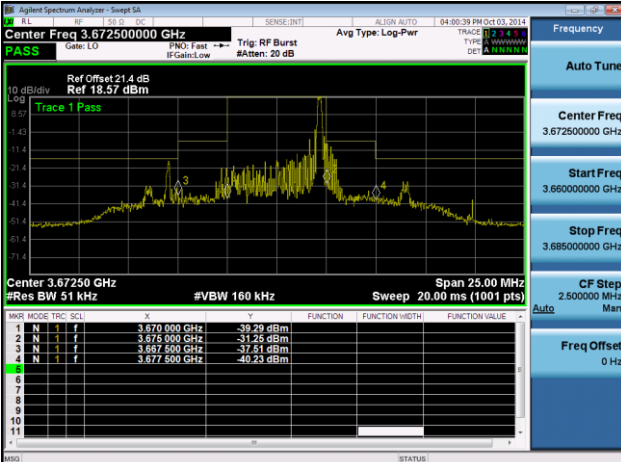
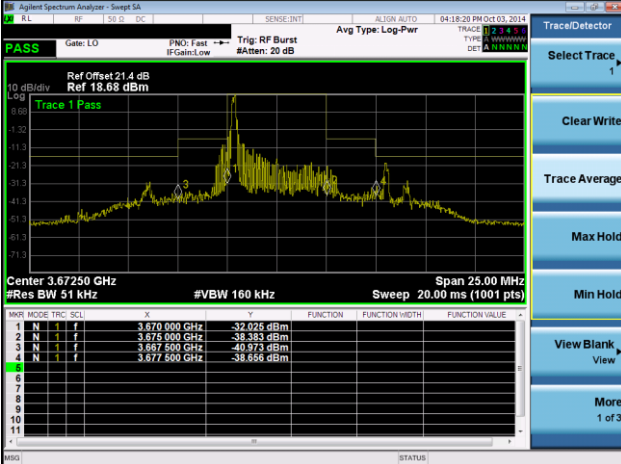
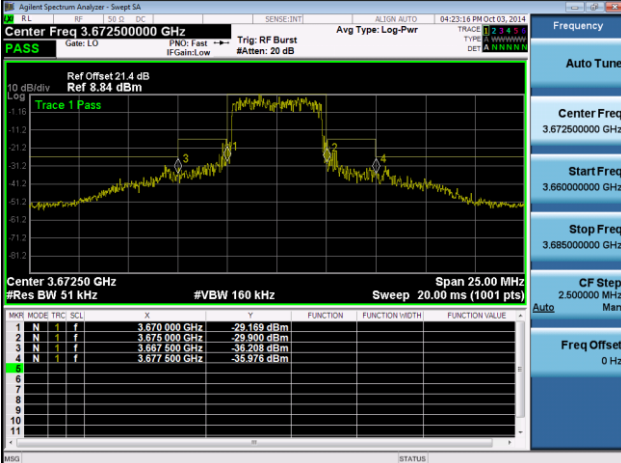


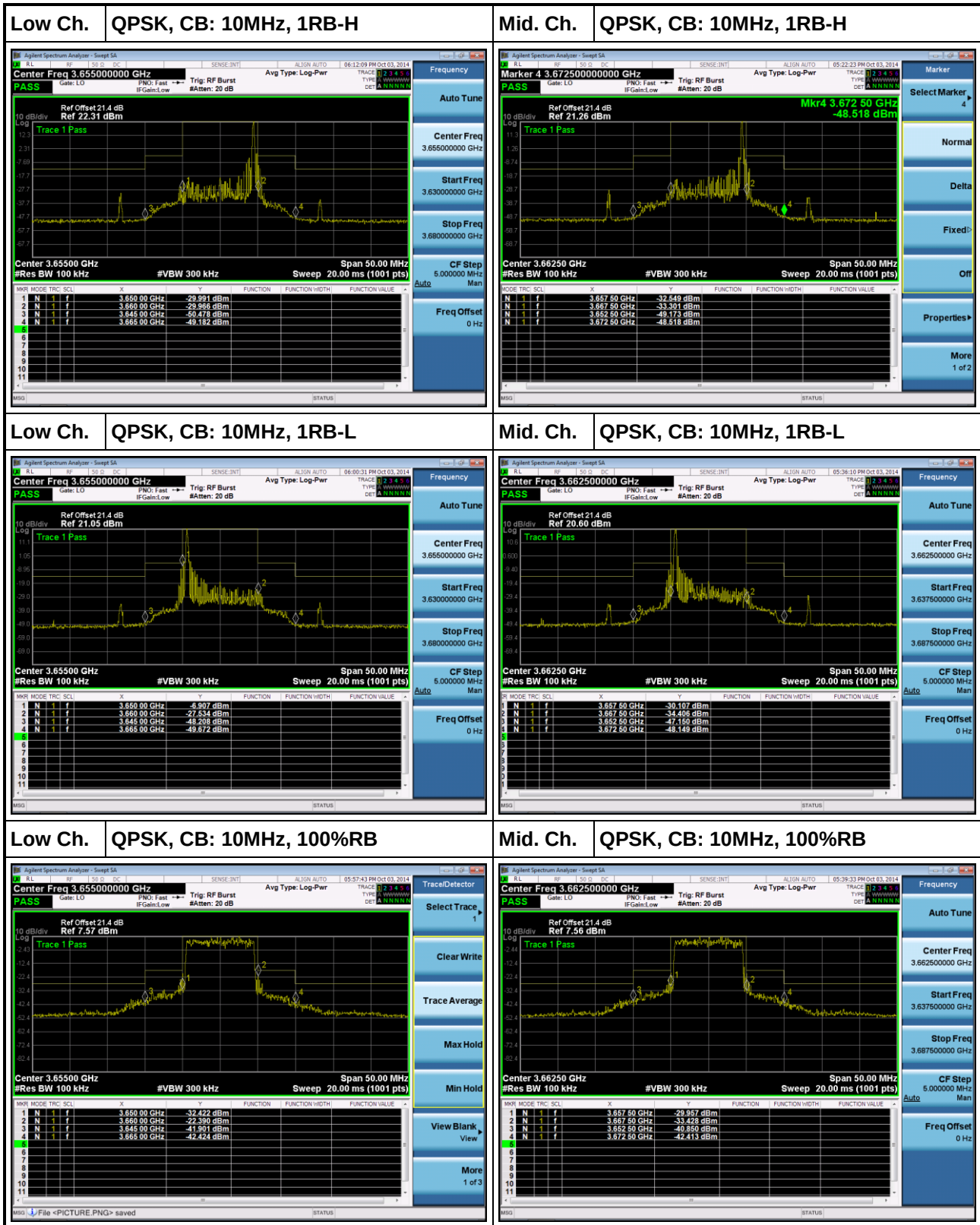
3.4.4 Test Result of Emission Mask

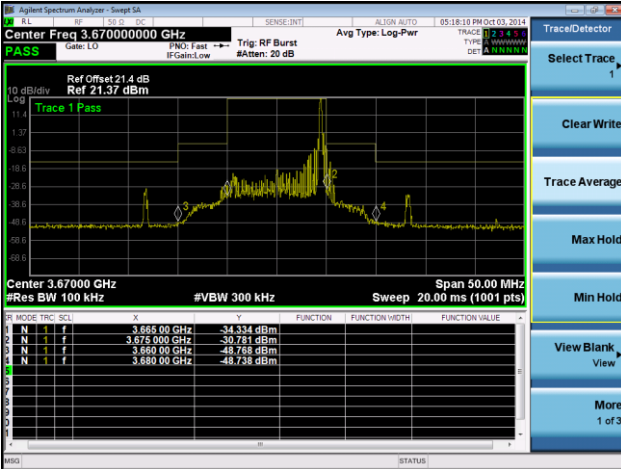
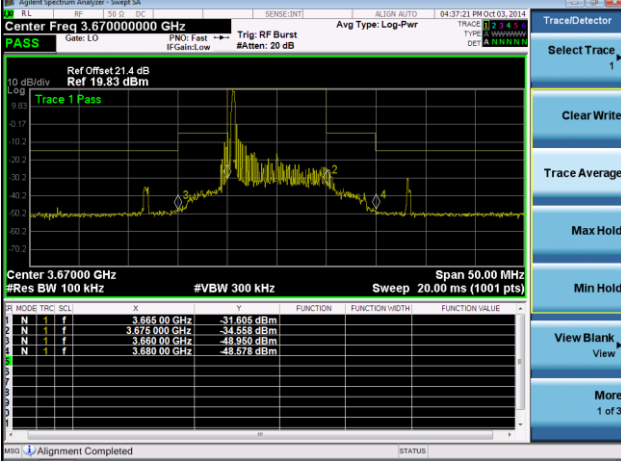
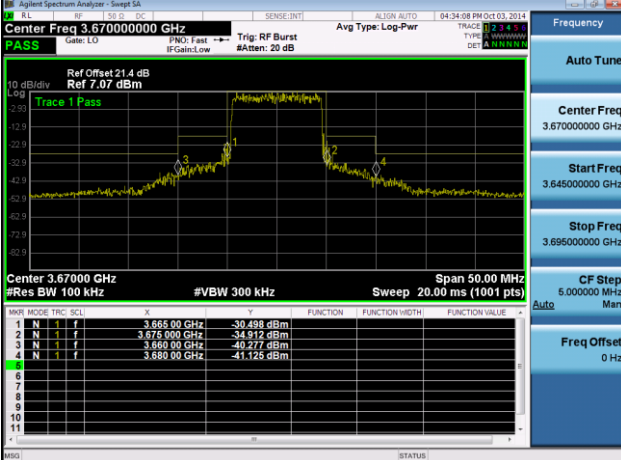


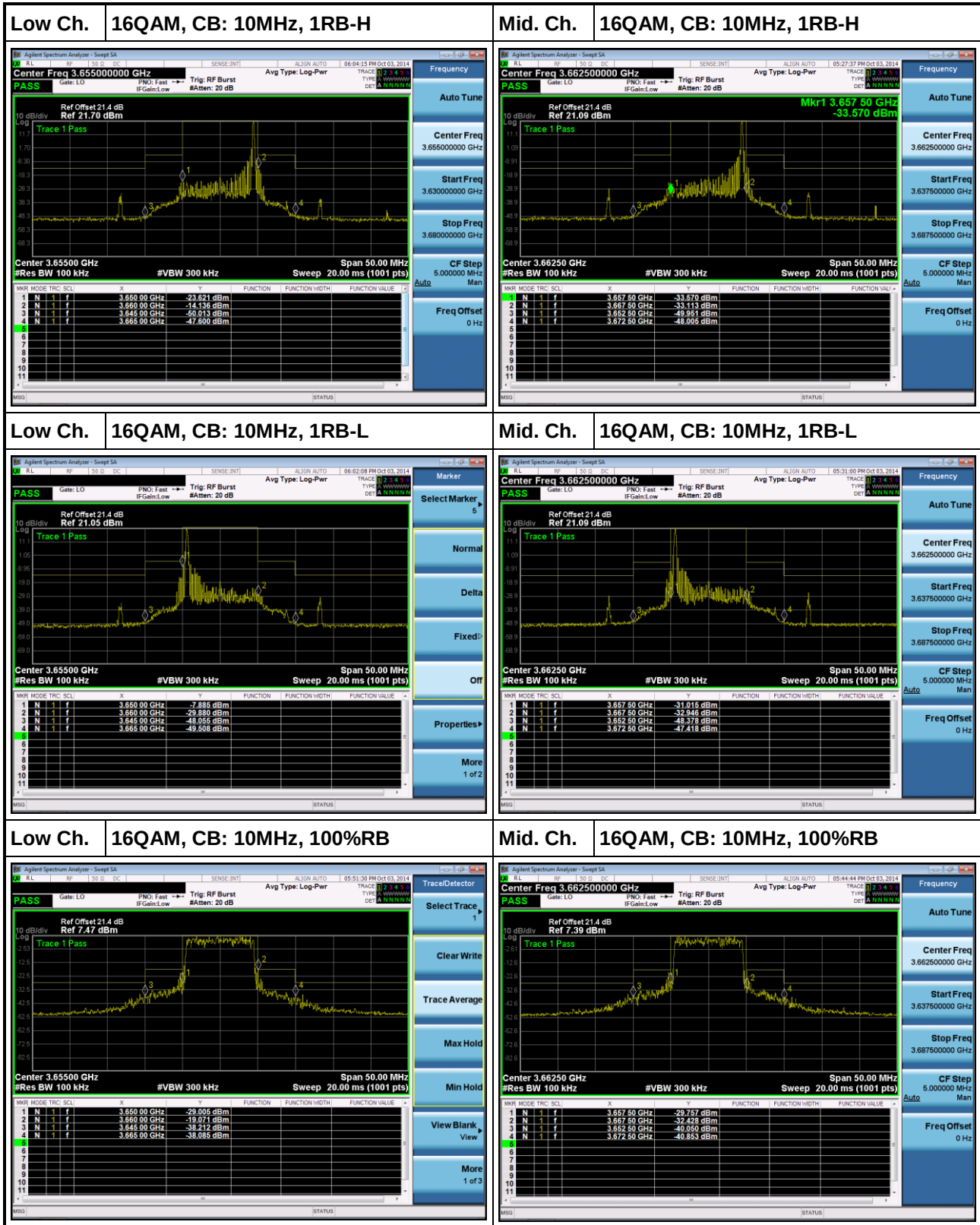
High Ch.	QPSK, CB: 5MHz, 1RB-H	---



High Ch. 16QAM, CB: 5MHz, 1RB-H 	---
High Ch. 16QAM, CB: 5MHz, 1RB-L 	---
High Ch. 16QAM, CB: 5MHz, 100%RB 	---



High Ch.	QPSK, CB: 10MHz, 1RB-H	---
		---
High Ch.	QPSK, CB: 10MHz, 1RB-L	---
		---
High Ch.	QPSK, CB: 10MHz, 100%RB	---
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High Ch.	16QAM, CB: 10MHz, 1RB-H	---																																													
Agilent Spectrum Analyzer - Sweep SA RL RF 150.0 DC SENSE:INT1 ALISON AUTO 05:14:59 PM Oct 03, 2014 Center Freq 3.670000000 GHz PASS Gate: LO PMO: Fast IF Gain: Low Trig: RF Burst #Atten: 20 dB Avg Type: Log-Pwr TRACE 1 3 4 5 TYPE: A WWWWWW DET: A NNNNN Ref Offset 21.4 dB Ref 21.37 dBm Trace 1 Pass Center 3.67000 GHz #Res BW 100 kHz #VBW 300 kHz Span 50.00 MHz Sweep 20.00 ms (1001 pts) <table><thead><tr><th>MARK</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>3.665 00 GHz</td><td>-34.038 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>3.675 000 GHz</td><td>-32.757 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>3.680 00 GHz</td><td>-48.993 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>3.680 00 GHz</td><td>-48.985 dBm</td><td></td><td></td><td></td></tr></tbody></table> MSO (STATUS) TraceDetector Select Trace 1 Clear Write Trace Average Max Hold Min Hold View Blank View More 1 of 3			MARK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	3.665 00 GHz	-34.038 dBm				2	N	1	f	3.675 000 GHz	-32.757 dBm				3	N	1	f	3.680 00 GHz	-48.993 dBm				4	N	1	f	3.680 00 GHz	-48.985 dBm			
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