

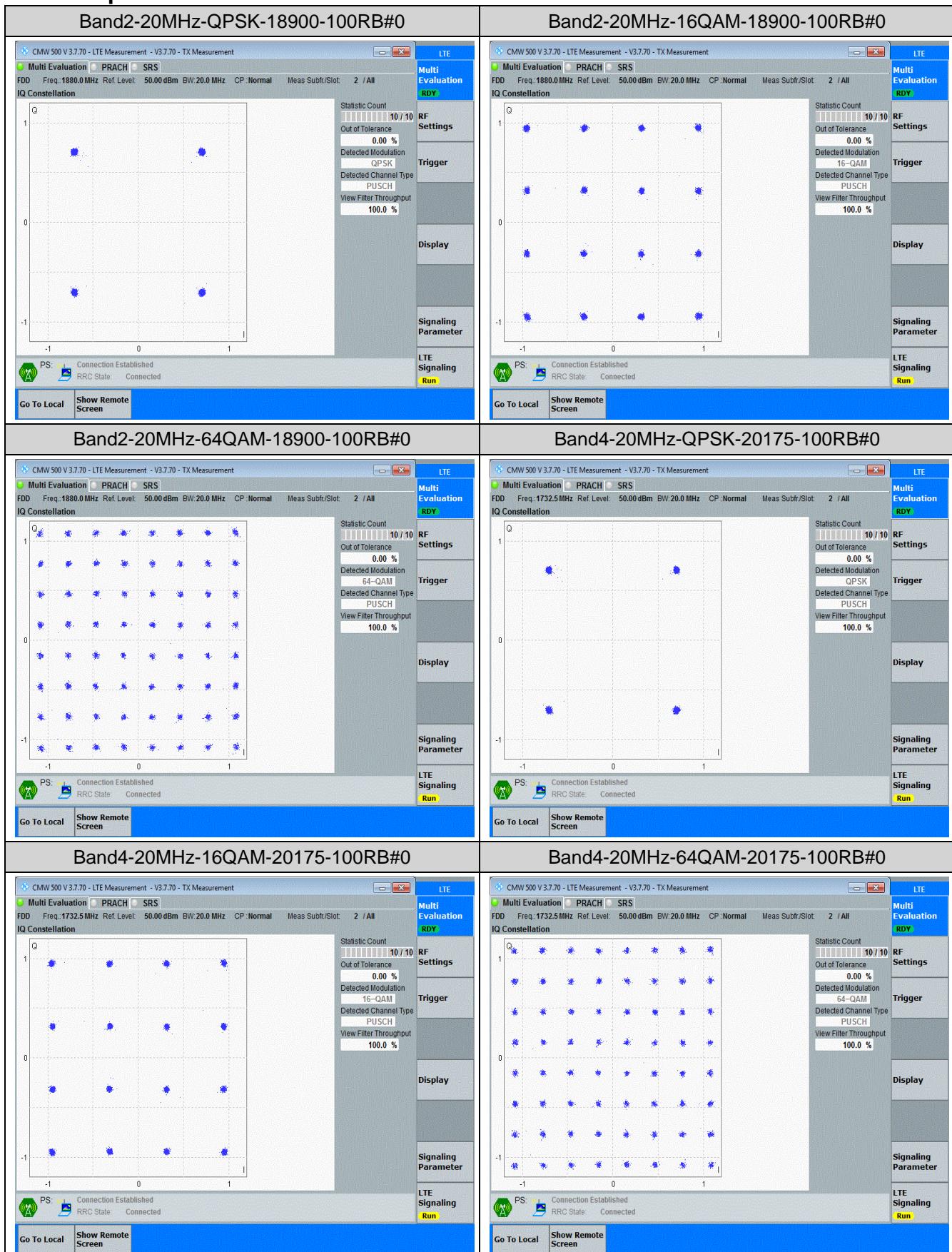
## Appendix G: Modulation Characteristics

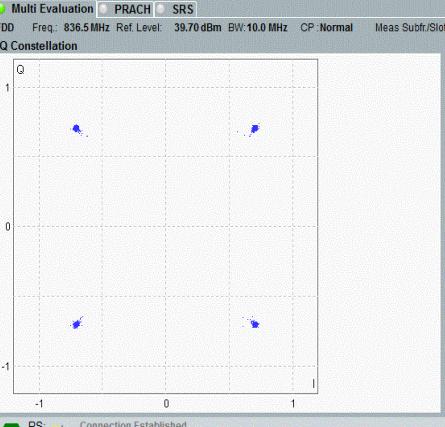
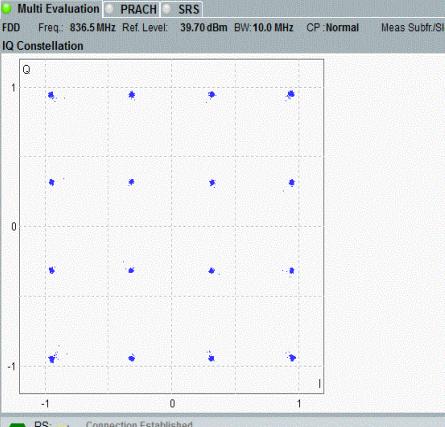
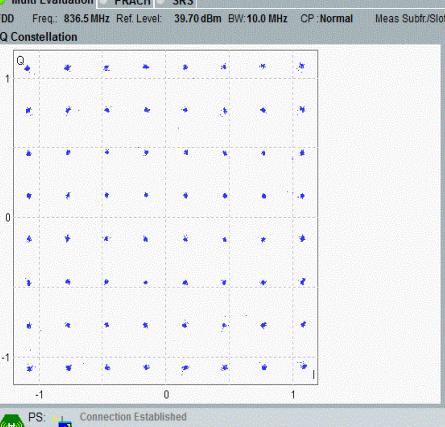
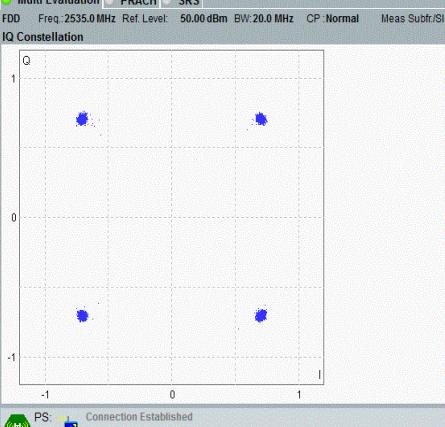
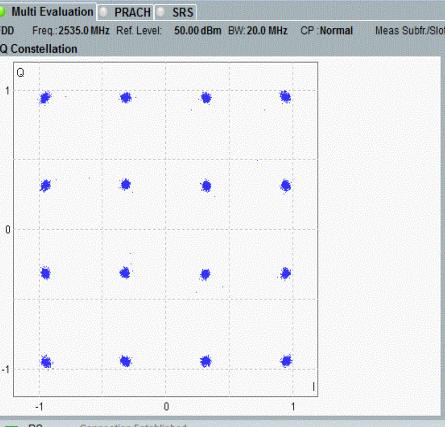
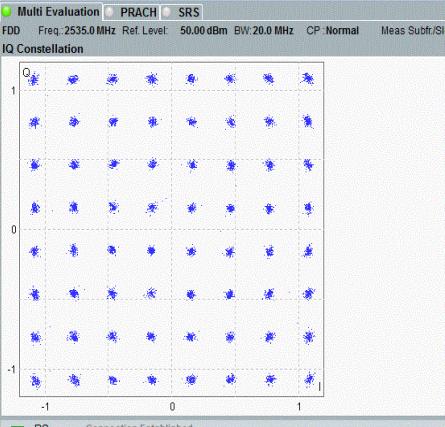
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#0	PASS	PASS
Band41	20MHz	QPSK	40640	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40640	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40640	100RB#0	PASS	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

## Test Graphs



<h3>Band5-10MHz-QPSK-20525-50RB#0</h3>  <p>CMW 500 V 3.7.70 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation: PRACH, SRS</p> <p>FDD Freq: 836.5 MHz Ref. Level: 39.70 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot: 2 / All</p> <p>IQ Constellation</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Detected Modulation: QPSK Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>LTE Signaling: ON</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<h3>Band5-10MHz-16QAM-20525-50RB#0</h3>  <p>CMW 500 V 3.7.70 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation: PRACH, SRS</p> <p>FDD Freq: 836.5 MHz Ref. Level: 39.70 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot: 2 / All</p> <p>IQ Constellation</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Detected Modulation: 16-QAM Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>LTE Signaling: ON</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>
<h3>Band5-10MHz-64QAM-20525-50RB#0</h3>  <p>CMW 500 V 3.7.70 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation: PRACH, SRS</p> <p>FDD Freq: 836.5 MHz Ref. Level: 39.70 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot: 2 / All</p> <p>IQ Constellation</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Detected Modulation: 64-QAM Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>LTE Signaling: ON</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<h3>Band7-20MHz-QPSK-21100-100RB#0</h3>  <p>CMW 500 V 3.7.70 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation: PRACH, SRS</p> <p>FDD Freq: 2535.0 MHz Ref. Level: 50.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr/Slot: 2 / All</p> <p>IQ Constellation</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Detected Modulation: QPSK Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>LTE Signaling: Run</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>
<h3>Band7-20MHz-16QAM-21100-100RB#0</h3>  <p>CMW 500 V 3.7.70 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation: PRACH, SRS</p> <p>FDD Freq: 2535.0 MHz Ref. Level: 50.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr/Slot: 2 / All</p> <p>IQ Constellation</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Detected Modulation: 16-QAM Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>LTE Signaling: Run</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<h3>Band7-20MHz-64QAM-21100-100RB#0</h3>  <p>CMW 500 V 3.7.70 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation: PRACH, SRS</p> <p>FDD Freq: 2535.0 MHz Ref. Level: 50.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr/Slot: 2 / All</p> <p>IQ Constellation</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Detected Modulation: 64-QAM Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>LTE Signaling: Run</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>
<h3>Band38-20MHz-QPSK-38000-100RB#0</h3>	<h3>Band38-20MHz-16QAM-38000-100RB#0</h3>

