1. Modulation Characteristics

1.1 B12_1.4MHz

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

1.1.2 Test Graph

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation   PRACH   SRS

FDD   Freq.: 707.5 MHz   Ref. Level: 40.30 dBm   BW: 1.4 MHz   CP : Normal   Meas Subfr./Slot: 0 / All

IQ Constellation

Statistic Count — 20 / 20
Out of Tolerance — 0.00 %
Detected Modulation — QPSK
Detected Channel Type — PUSCH
View Filter Throughput — 100.0 %

PS: Connection Established
RRC State: Connected

Go To Local   Show Remote Screen

LTE
Multi Evaluation   RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling   Run

Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation   PRACH   SRS

FDD   Freq.: 707.5 MHz   Ref. Level: 40.30 dBm   BW: 1.4 MHz   CP : Normal   Meas Subfr./Slot: 0 / All

IQ Constellation

Statistic Count — 20 / 20
Out of Tolerance — 0.00 %
Detected Modulation — 16-QAM
Detected Channel Type — PUSCH
View Filter Throughput — 100.0 %

PS: Connection Established
RRC State: Connected

Go To Local   Show Remote Screen

LTE
Multi Evaluation   RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling   Run

1.2 B12_3MHz

1.2.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

1.2.2 Test Graph

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV
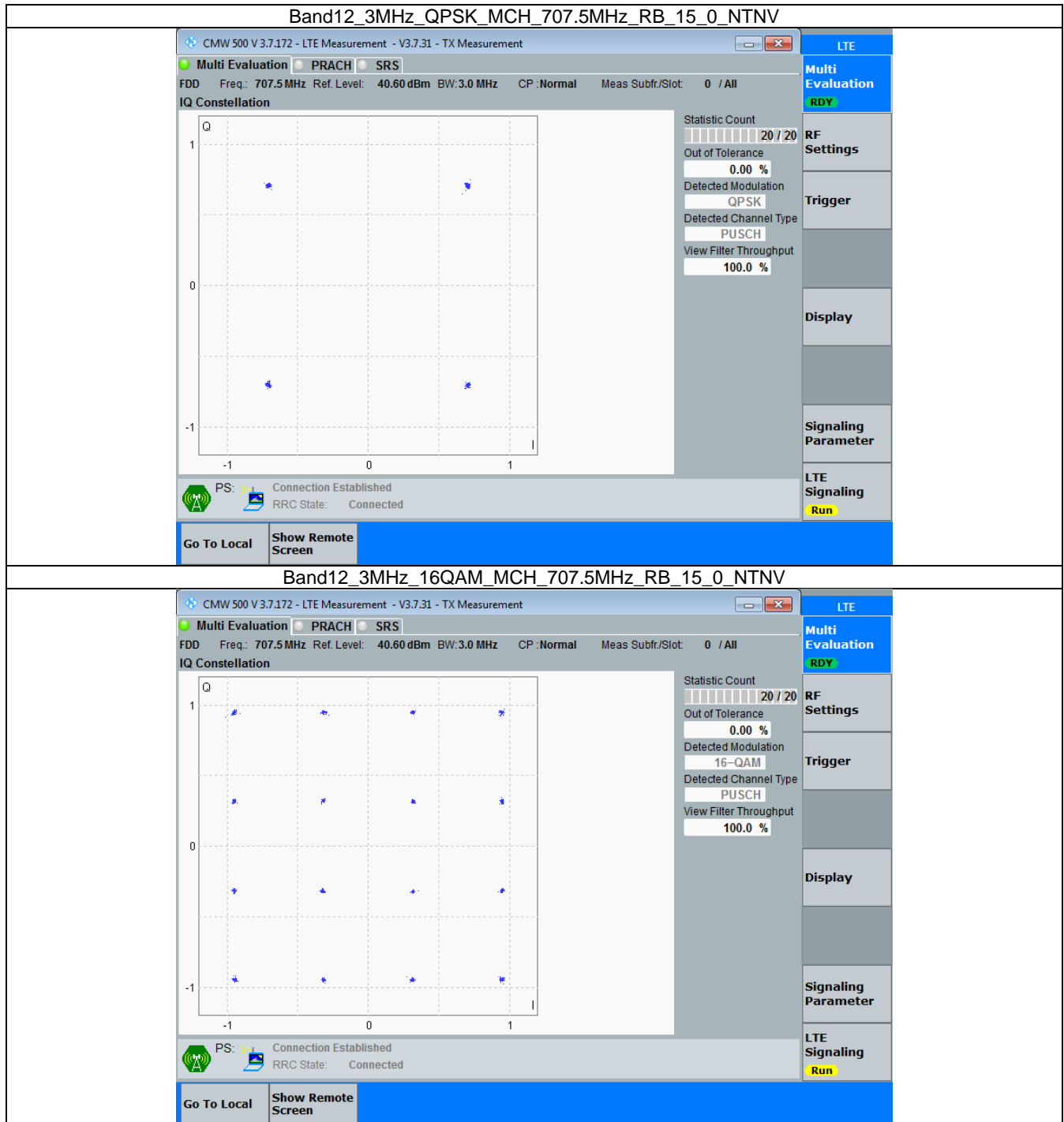
1.3 B12_5MHz

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

1.3.2 Test Graph

Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV
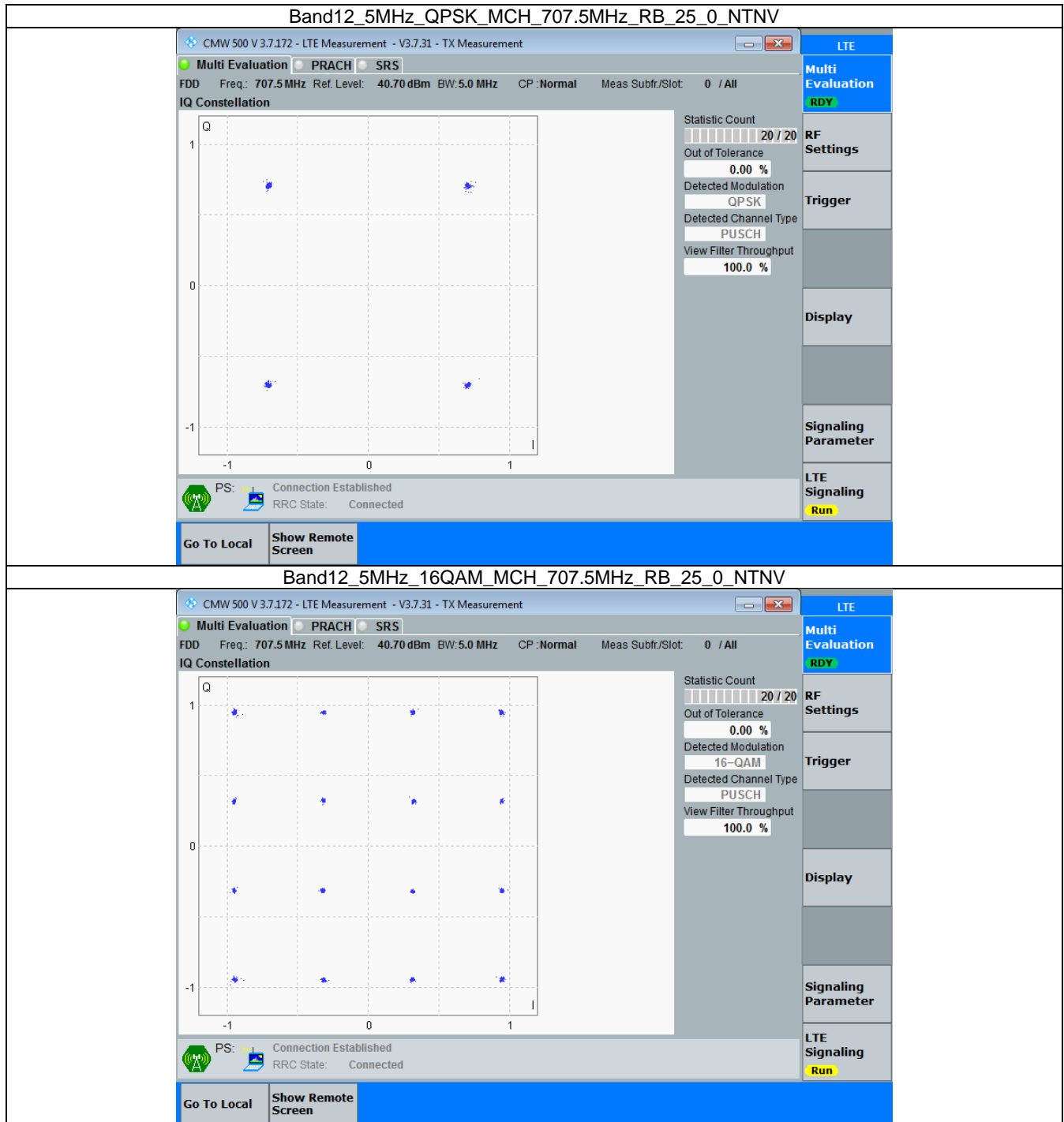
1.4 B12_10MHz

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

1.4.2 Test Graph

Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV
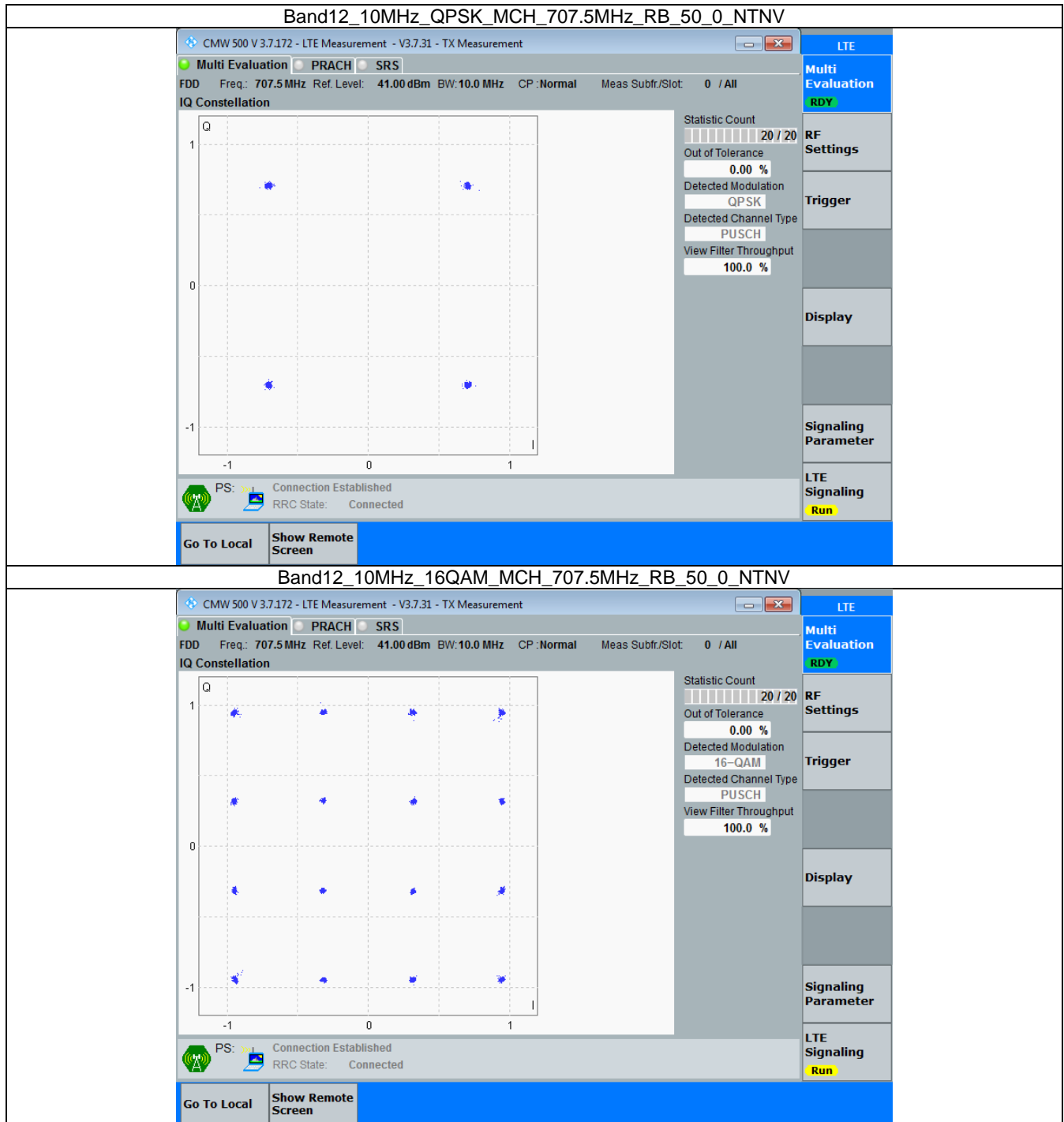
2. Modulation Characteristics

2.1 B13_5MHz

2.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	25	0	Refer To Test Graph		Pass
16QAM	782	25	0	Refer To Test Graph		Pass

2.1.2 Test Graph

Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV
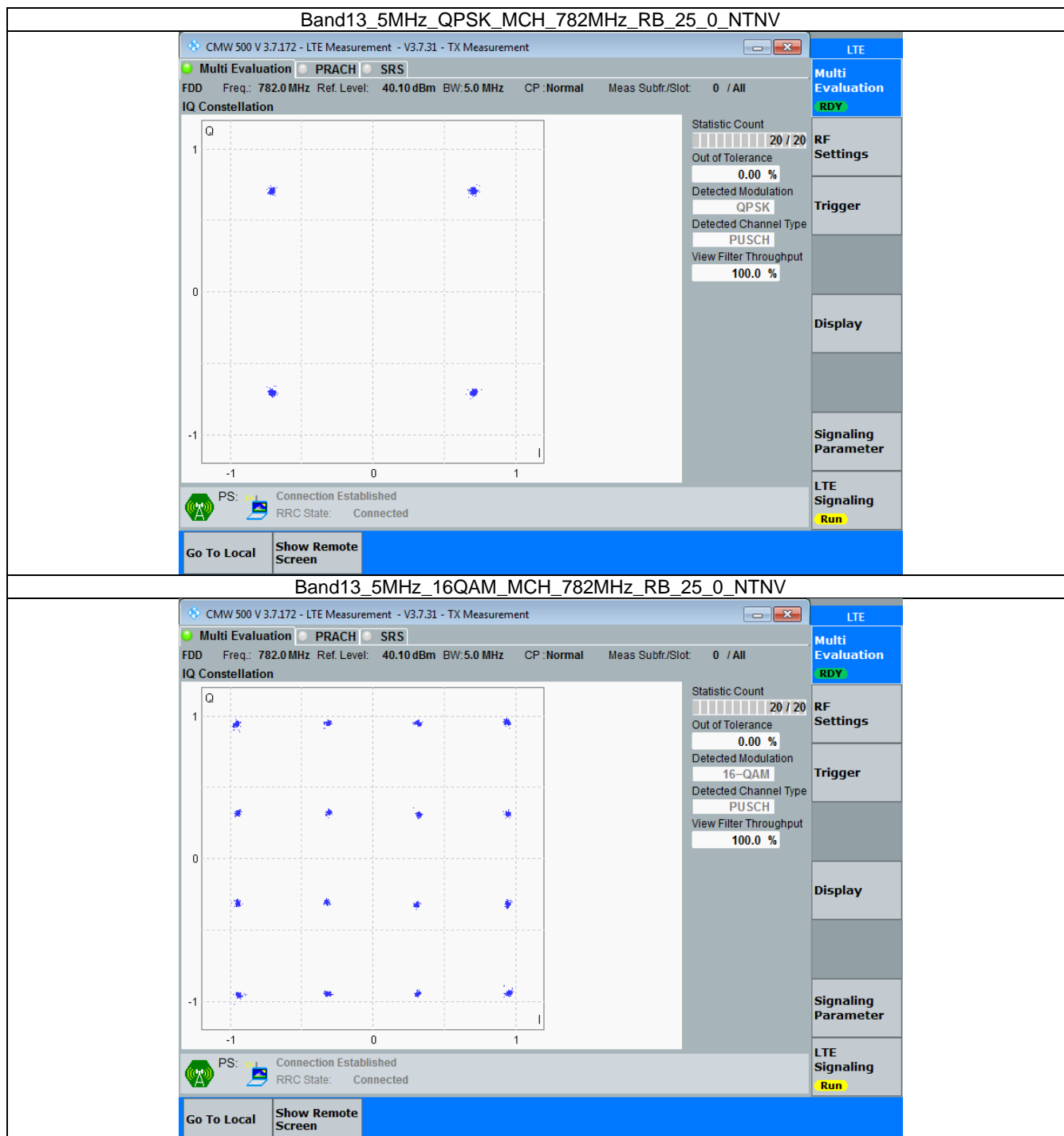
2.2 B13_10MHz

2.2.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	Refer To Test Graph		Pass
16QAM	782	50	0	Refer To Test Graph		Pass

2.2.2 Test Graph

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV
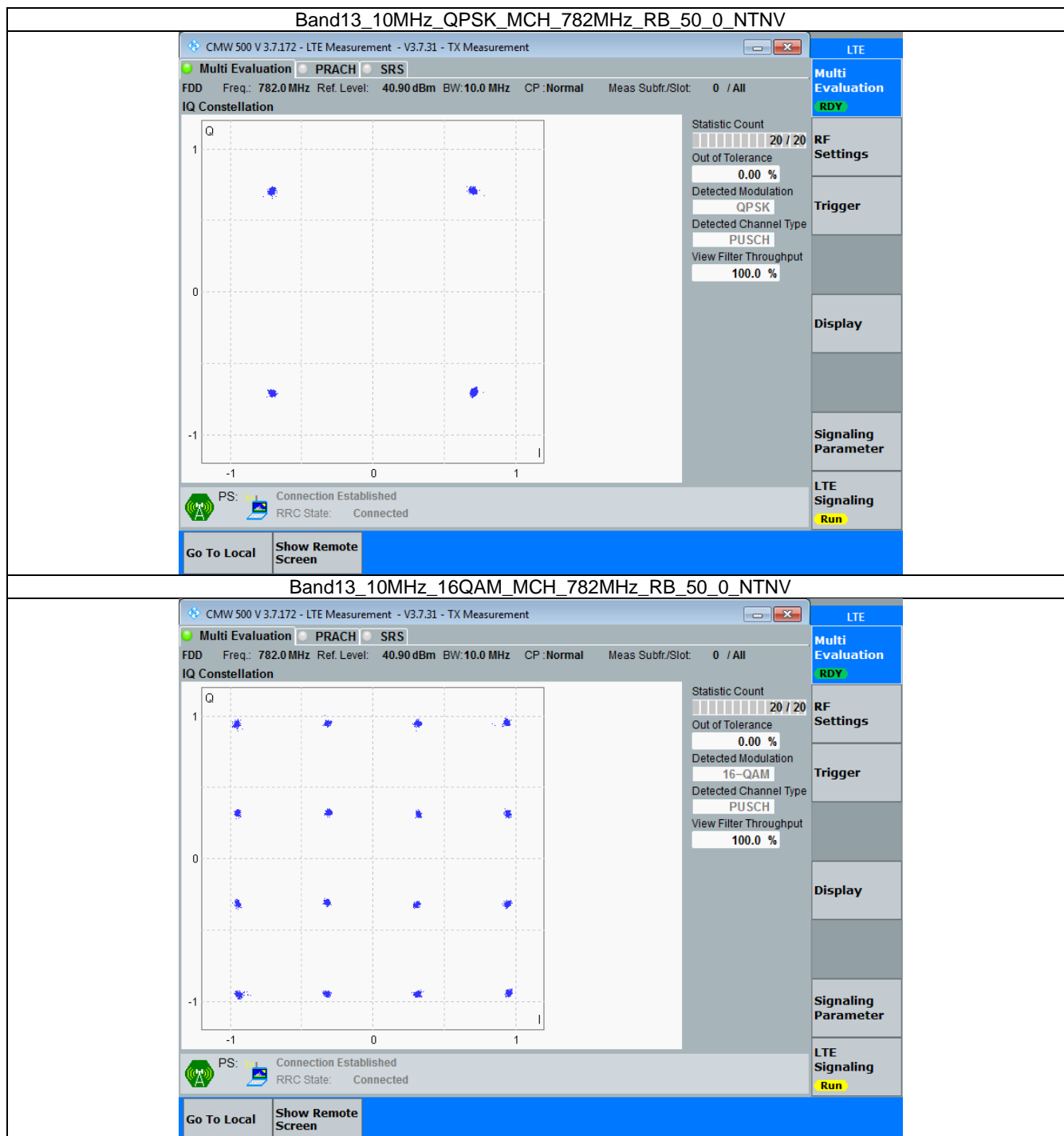
3. Modulation Characteristics

3.1 B17_5MHz

3.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 Test Graph

Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV
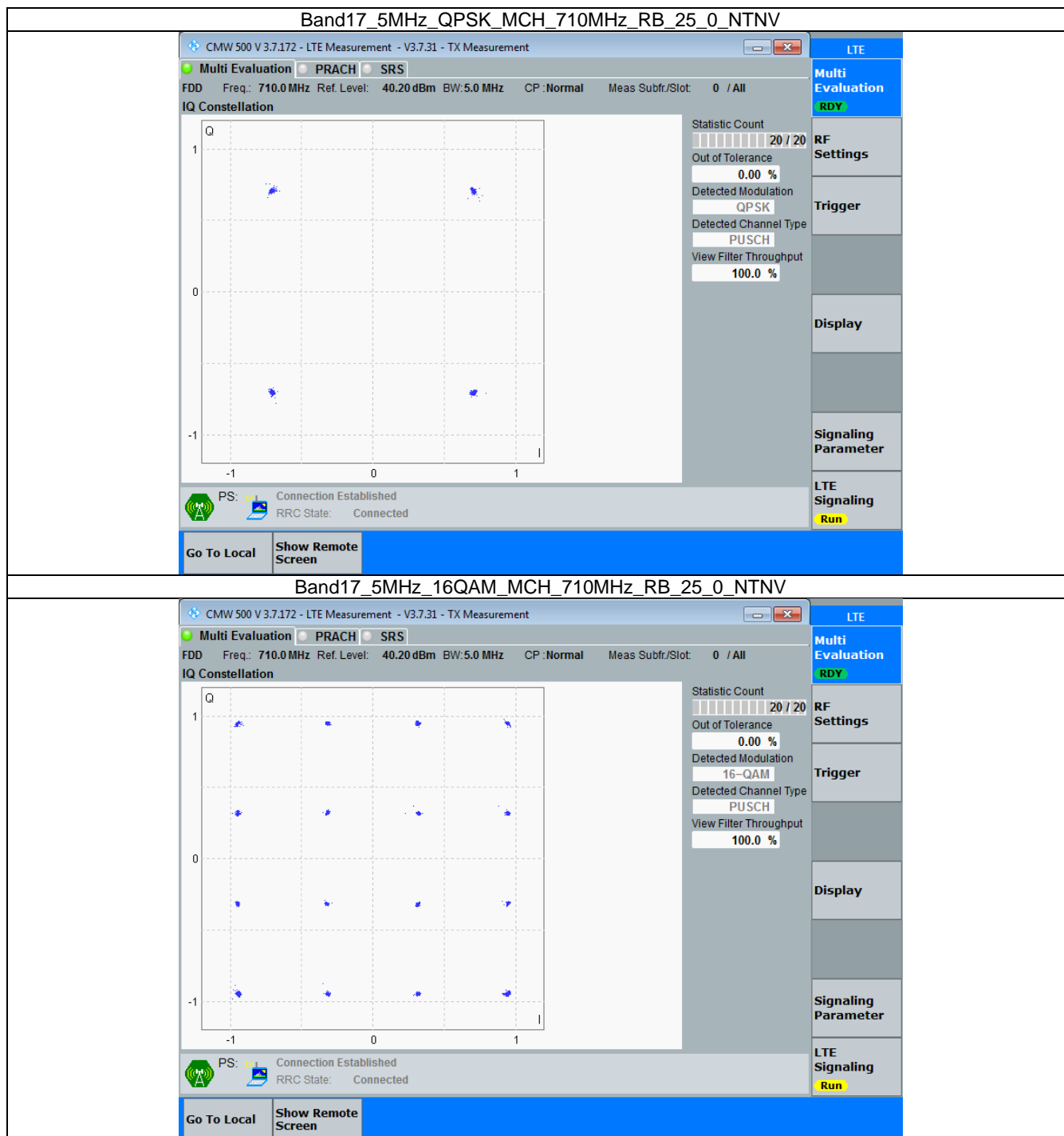
3.2 B17_10MHz

3.2.1 Test Result

		Band: 17 / Bandwidth: 10MHz / NTNV				
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

3.2.2 Test Graph

Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV
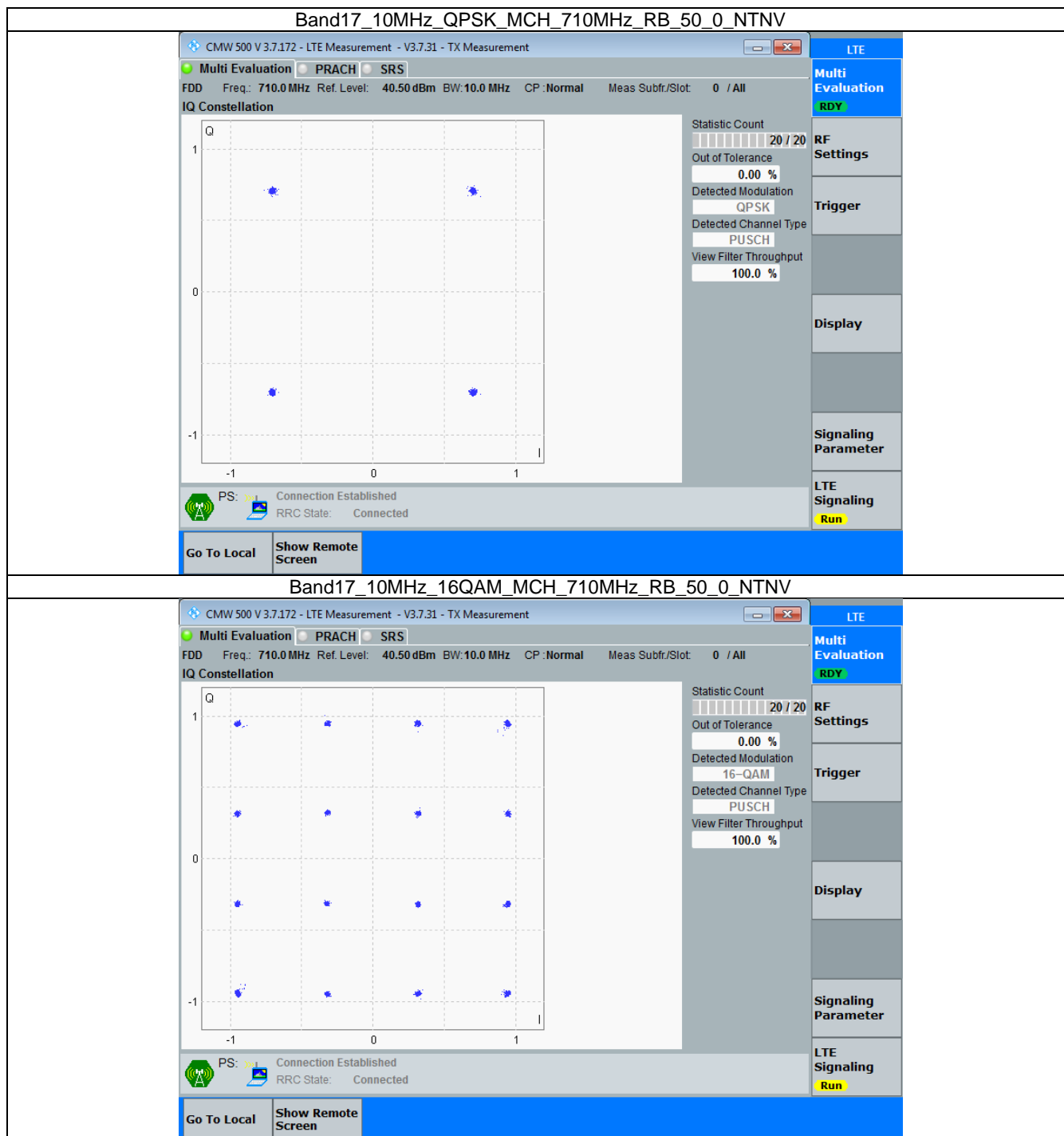
4. Modulation Characteristics

4.1 B2_1.4MHz

4.1.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1880	6	0	Refer To Test Graph		Pass
16QAM	1880	6	0	Refer To Test Graph		Pass

4.1.2 Test Graph

Band2_1.4MHz_QPSK_MCH_1880MHz_RB_6_0_NTNV
Band2_1.4MHz_16QAM_MCH_1880MHz_RB_6_0_NTNV
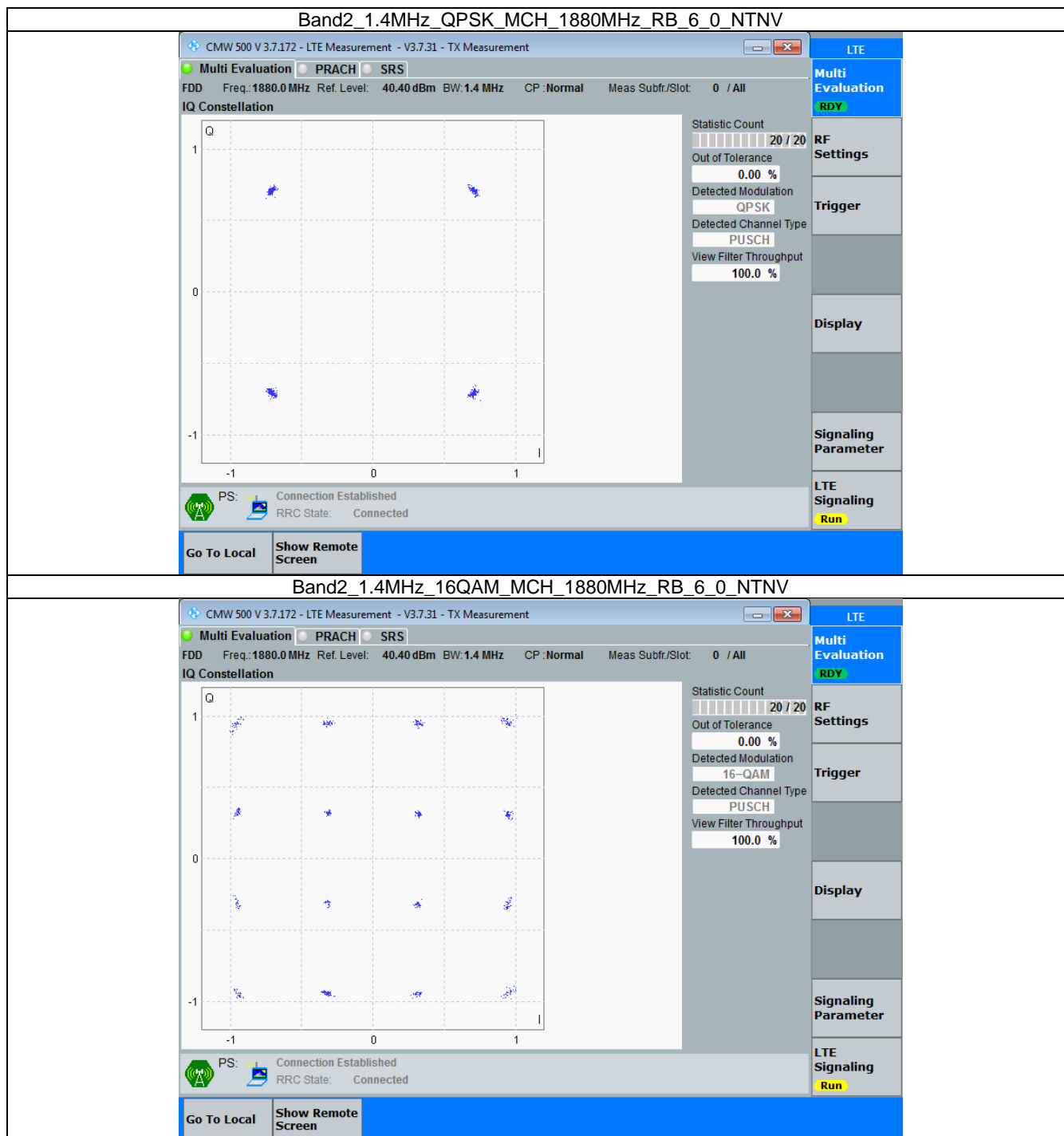
4.2 B2_3MHz

4.2.1 Test Result

Band: 2 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1880	15	0	Refer To Test Graph		Pass
16QAM	1880	15	0	Refer To Test Graph		Pass

4.2.2 Test Graph

Band2_3MHz_QPSK_MCH_1880MHz_RB_15_0_NTNV
Band2_3MHz_16QAM_MCH_1880MHz_RB_15_0_NTNV
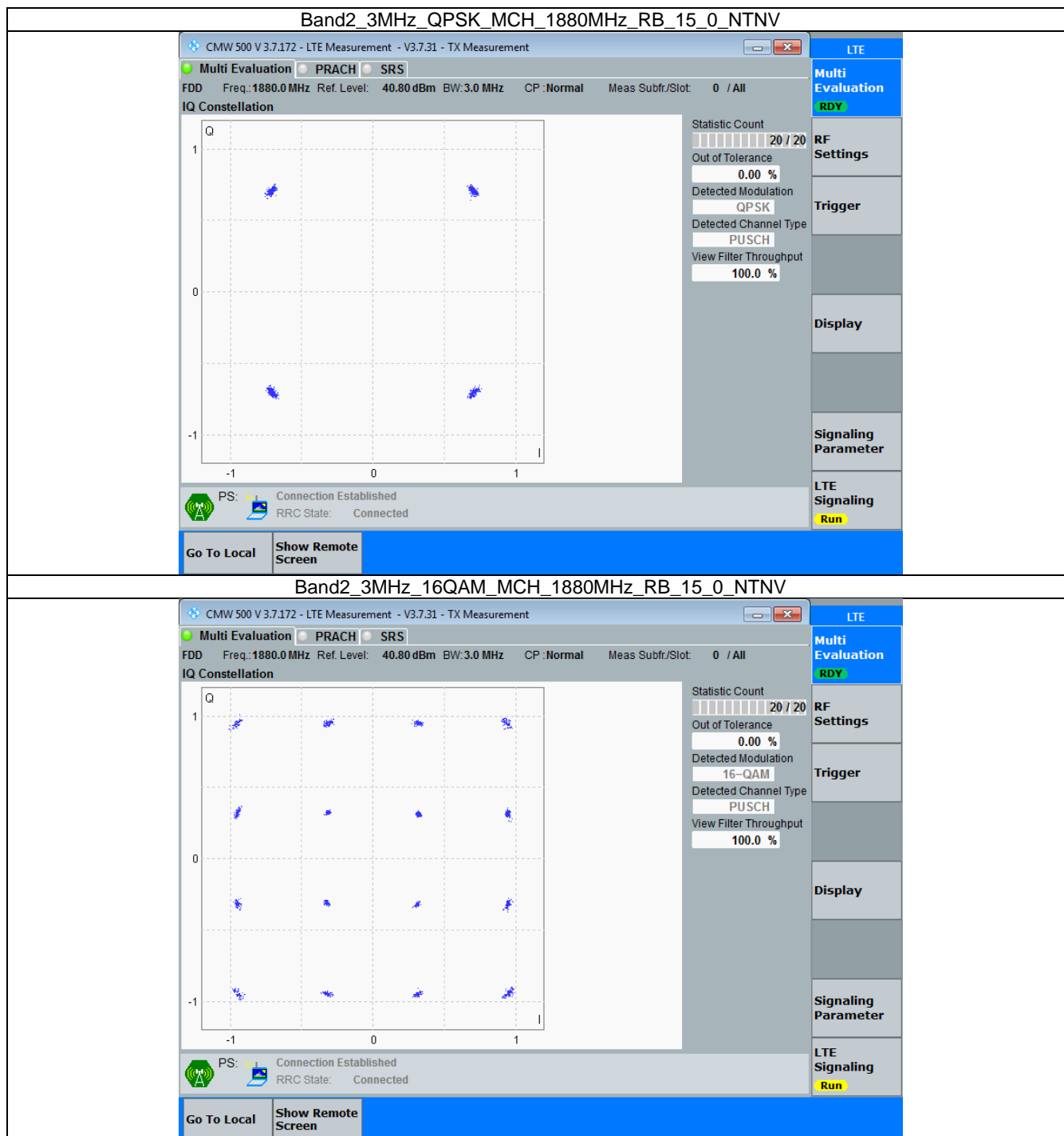
4.3 B2_5MHz

4.3.1 Test Result

Band: 2 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1880	25	0	Refer To Test Graph		Pass
16QAM	1880	25	0	Refer To Test Graph		Pass

4.3.2 Test Graph

Band2_5MHz_QPSK_MCH_1880MHz_RB_25_0_NTNV
Band2_5MHz_16QAM_MCH_1880MHz_RB_25_0_NTNV
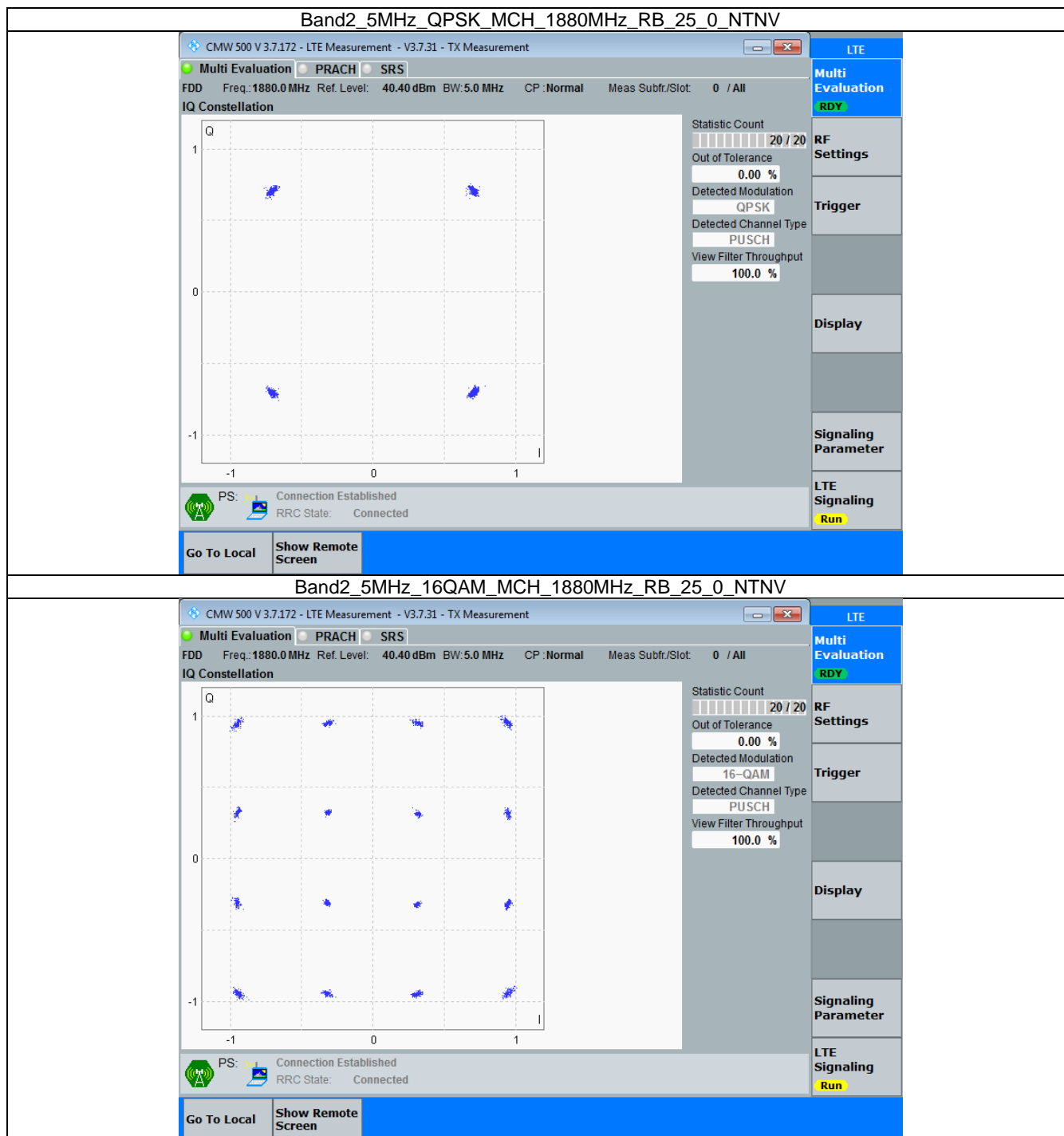
4.4 B2_10MHz

4.4.1 Test Result

Band: 2 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1880	50	0	Refer To Test Graph		Pass
16QAM	1880	50	0	Refer To Test Graph		Pass

4.4.2 Test Graph

Band2_10MHz_QPSK_MCH_1880MHz_RB_50_0_NTNV
Band2_10MHz_16QAM_MCH_1880MHz_RB_50_0_NTNV
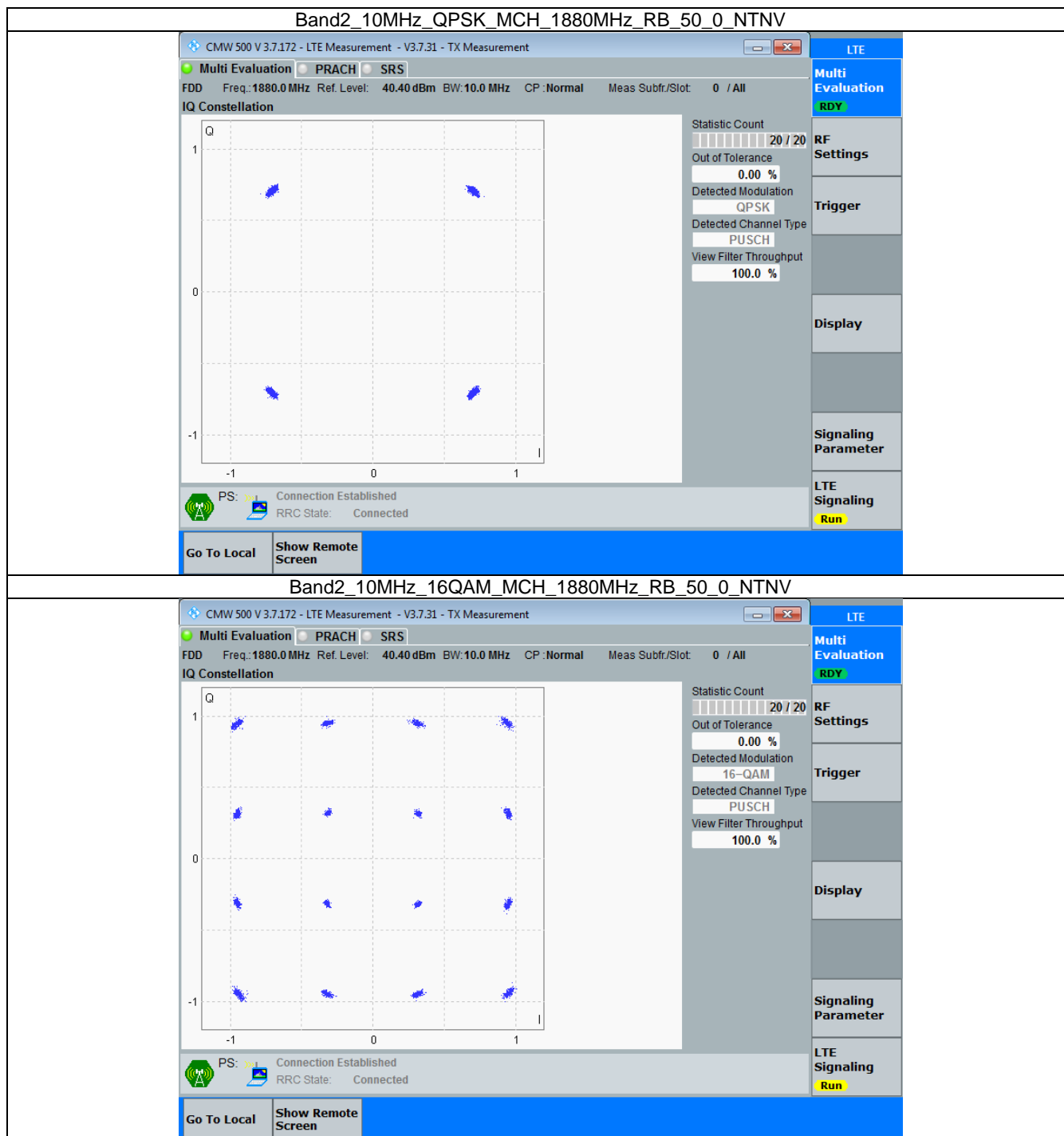
4.5 B2_15MHz

4.5.1 Test Result

Band: 2 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1880	75	0	Refer To Test Graph		Pass
16QAM	1880	75	0	Refer To Test Graph		Pass

4.5.2 Test Graph

Band2_15MHz_QPSK_MCH_1880MHz_RB_75_0_NTNV
Band2_15MHz_16QAM_MCH_1880MHz_RB_75_0_NTNV
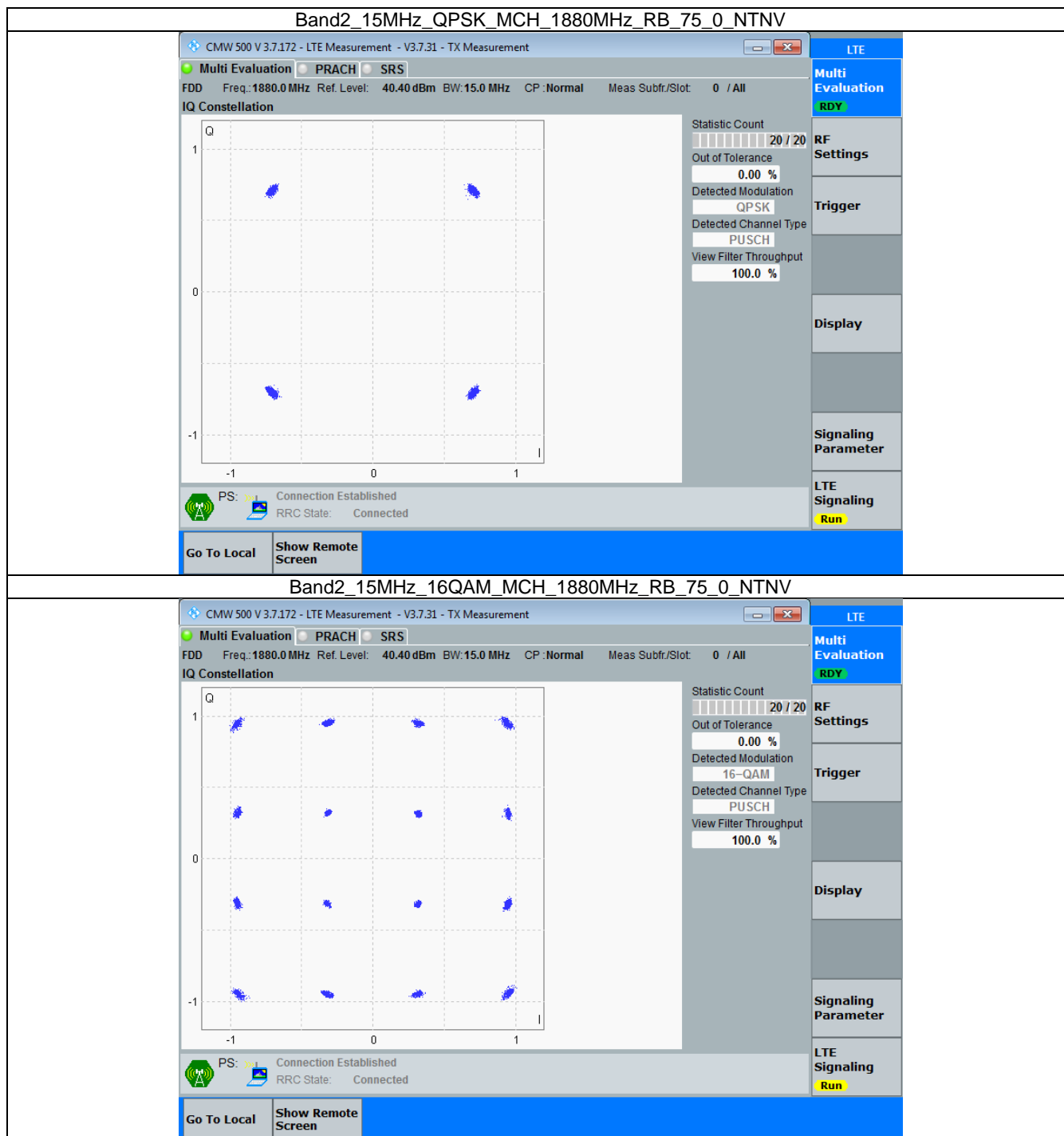
4.6 B2_20MHz

4.6.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1880	100	0	Refer To Test Graph		Pass
16QAM	1880	100	0	Refer To Test Graph		Pass

<div style="text-align:center">Band: 2 / Bandwidth: 20MHz / NTNV</div>

4.6.2 Test Graph

Band2_20MHz_QPSK_MCH_1880MHz_RB_100_0_NTNV
Band2_20MHz_16QAM_MCH_1880MHz_RB_100_0_NTNV
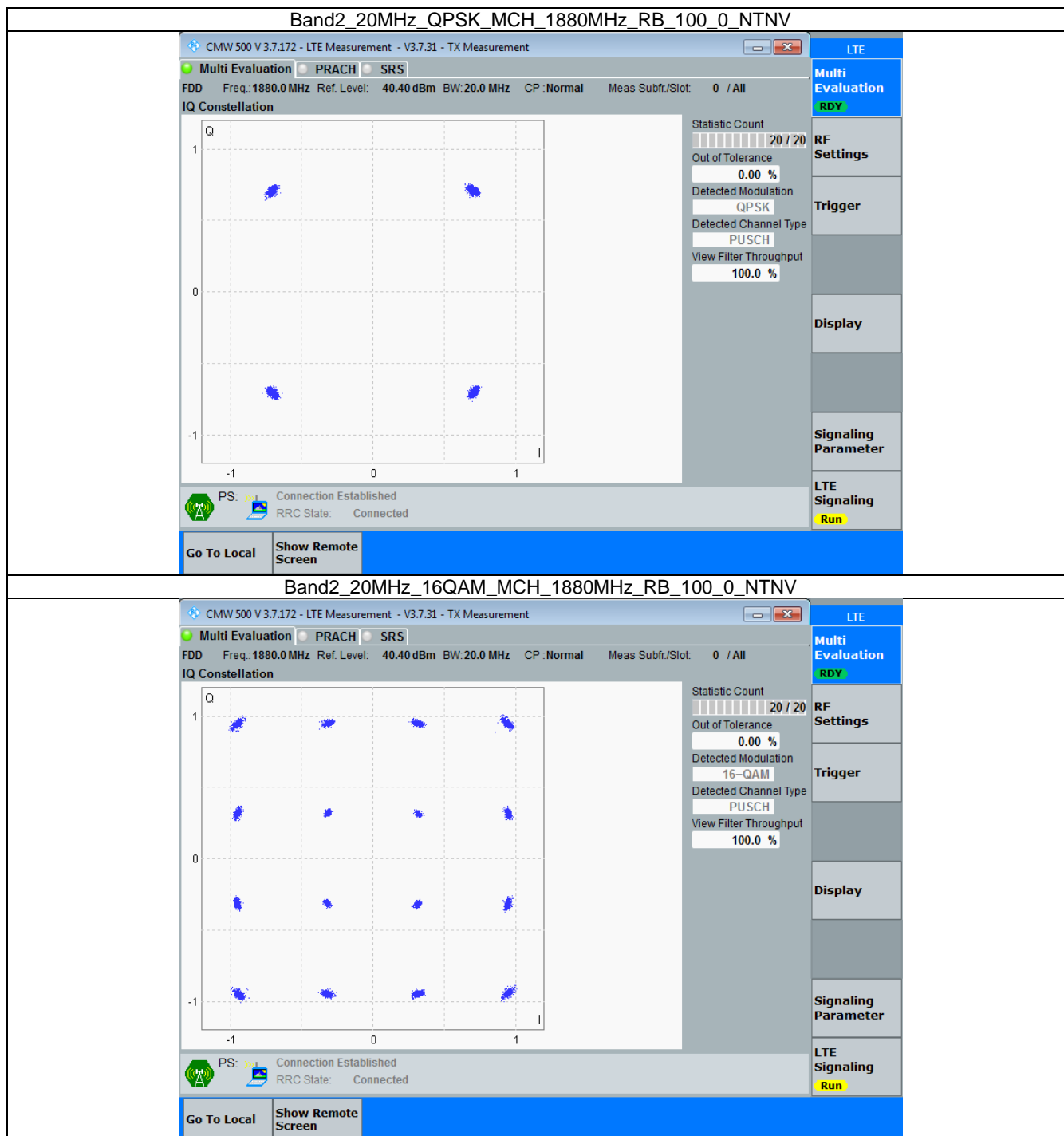
5. Modulation Characteristics

5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

5.1.2 Test Graph

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV
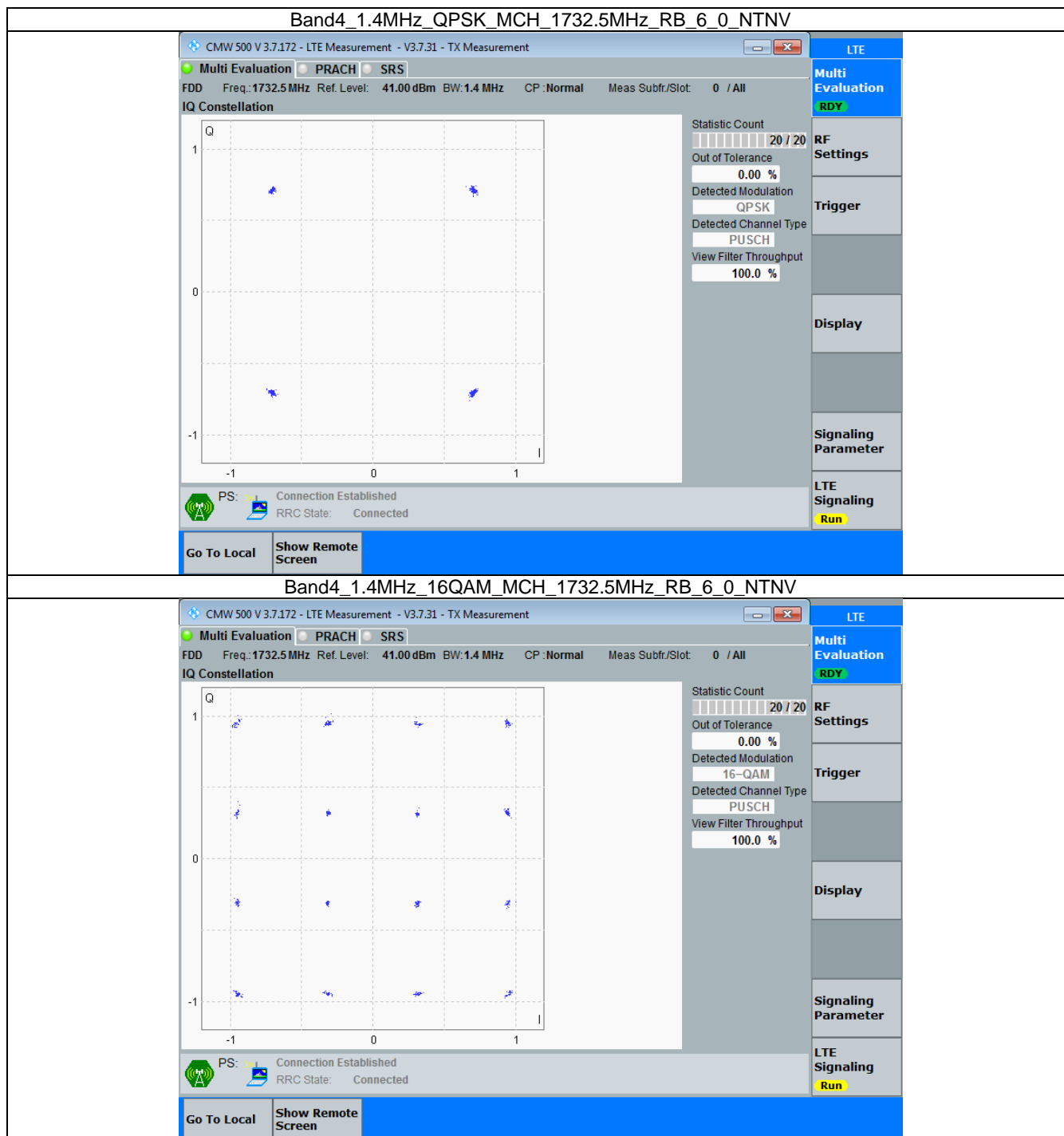
5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

5.2.2 Test Graph

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV
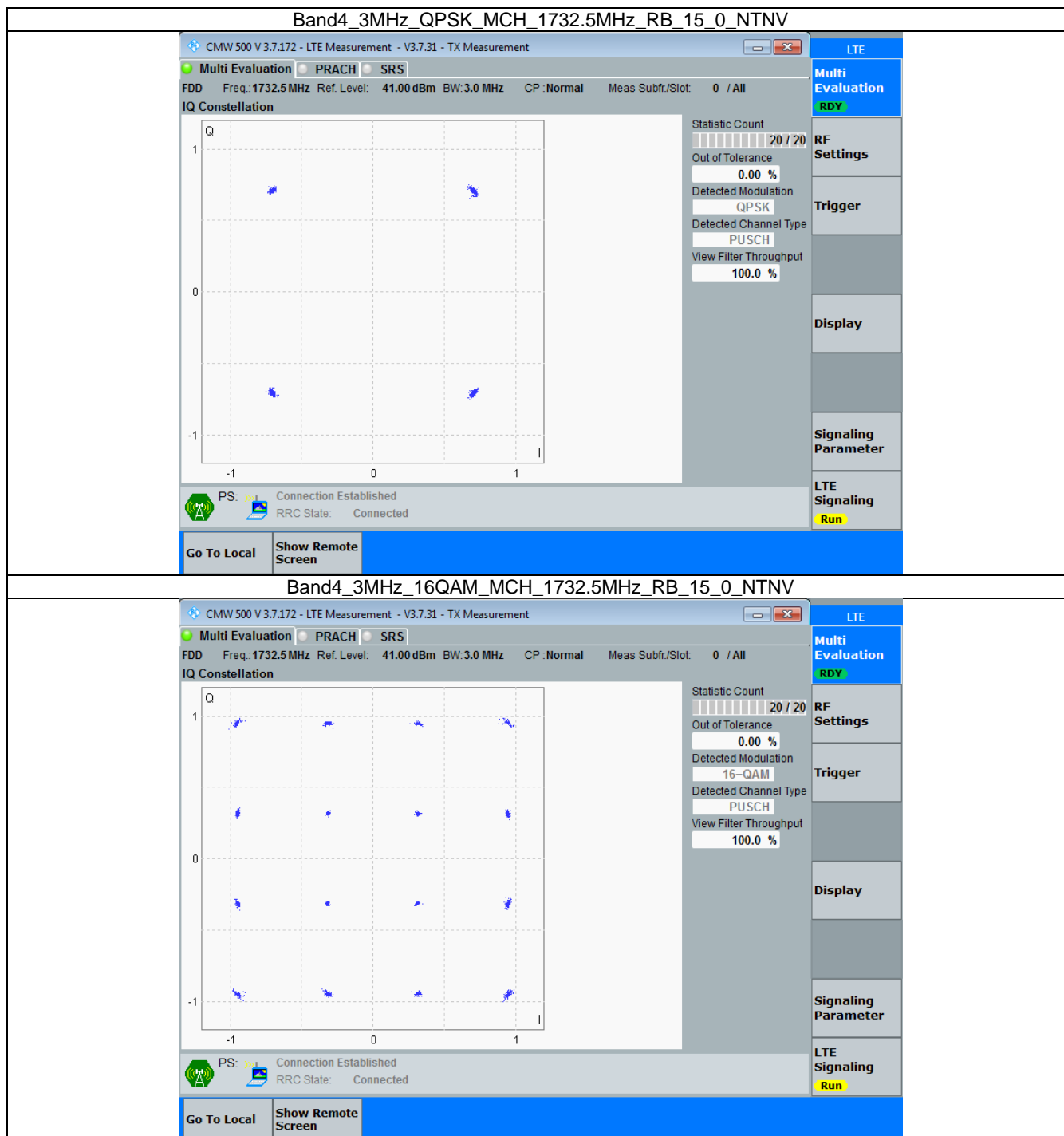
5.3 B4_5MHz

5.3.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

5.3.2 Test Graph

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV
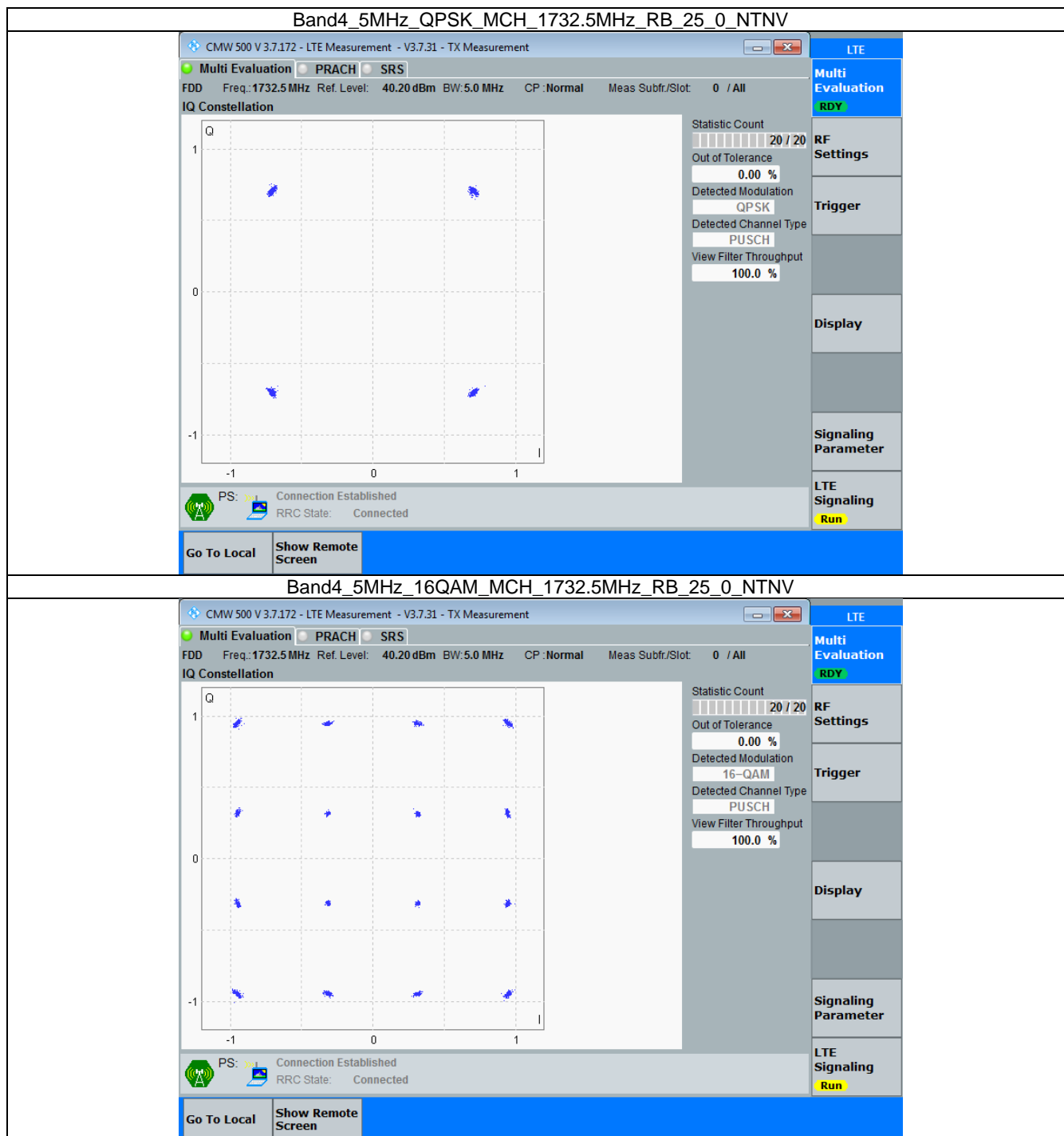
5.4 B4_10MHz

5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

5.4.2 Test Graph

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV
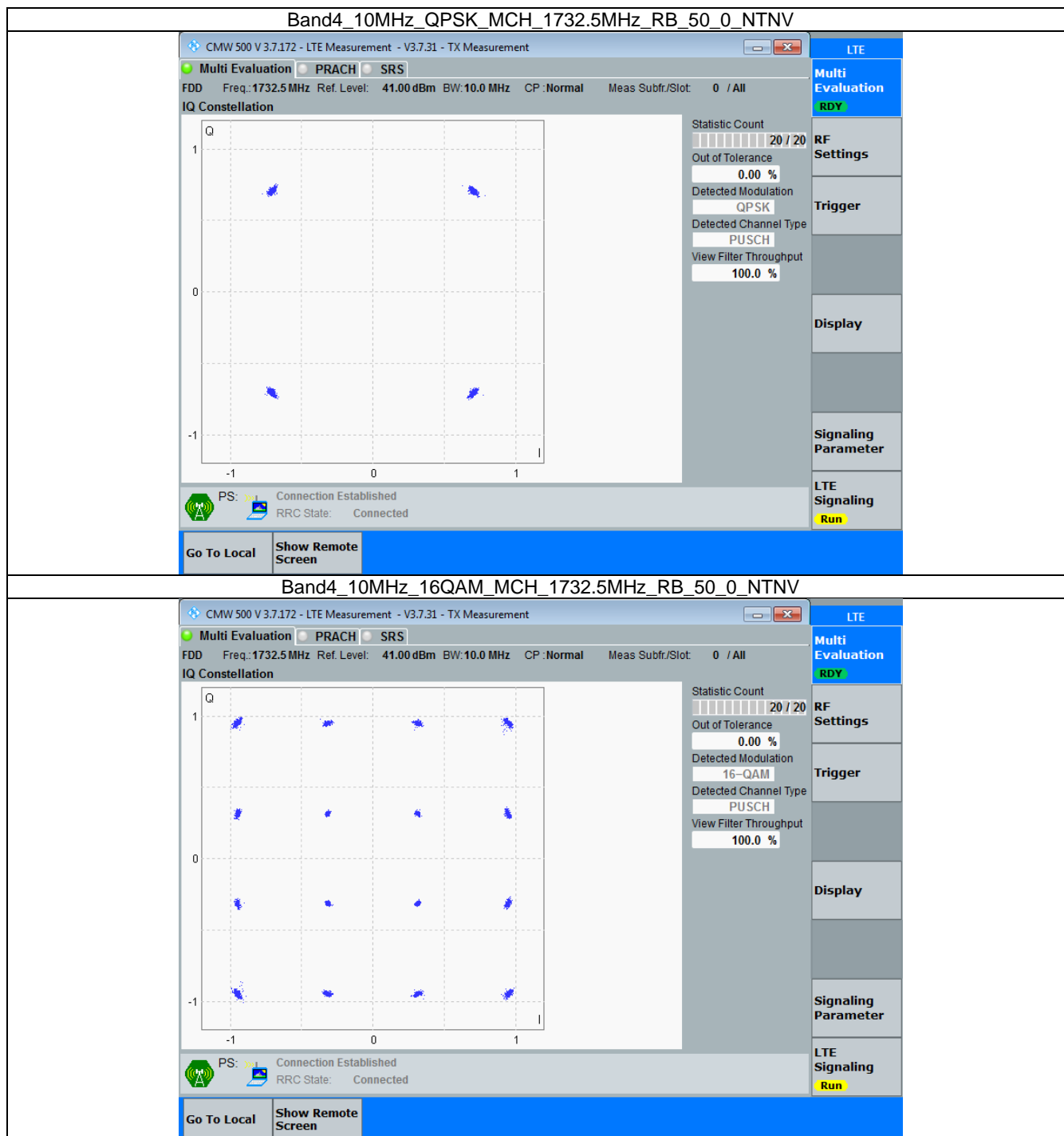
5.5 B4_15MHz

5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

5.5.2 Test Graph

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV
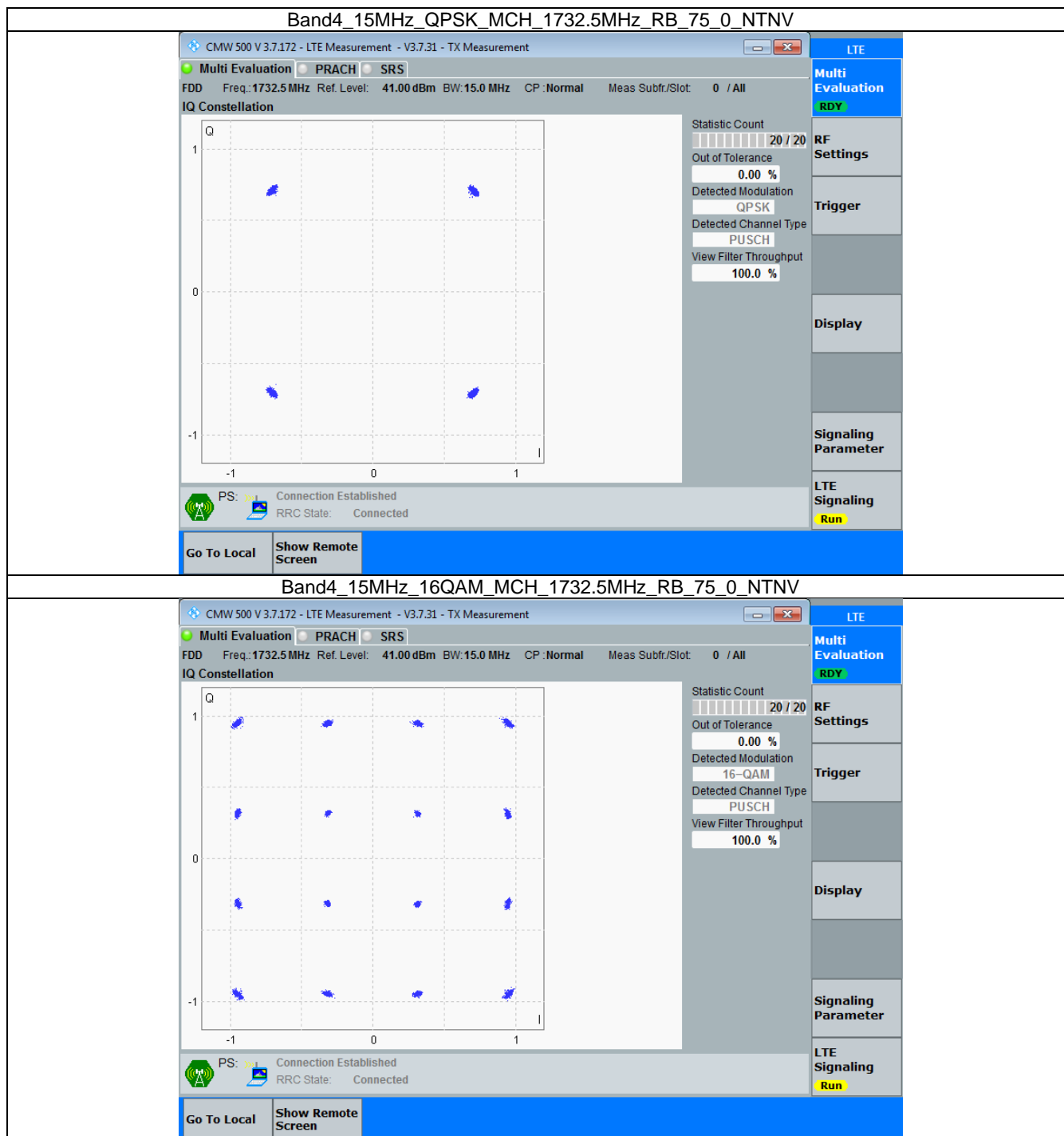
5.6 B4_20MHz

5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

5.6.2 Test Graph

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV
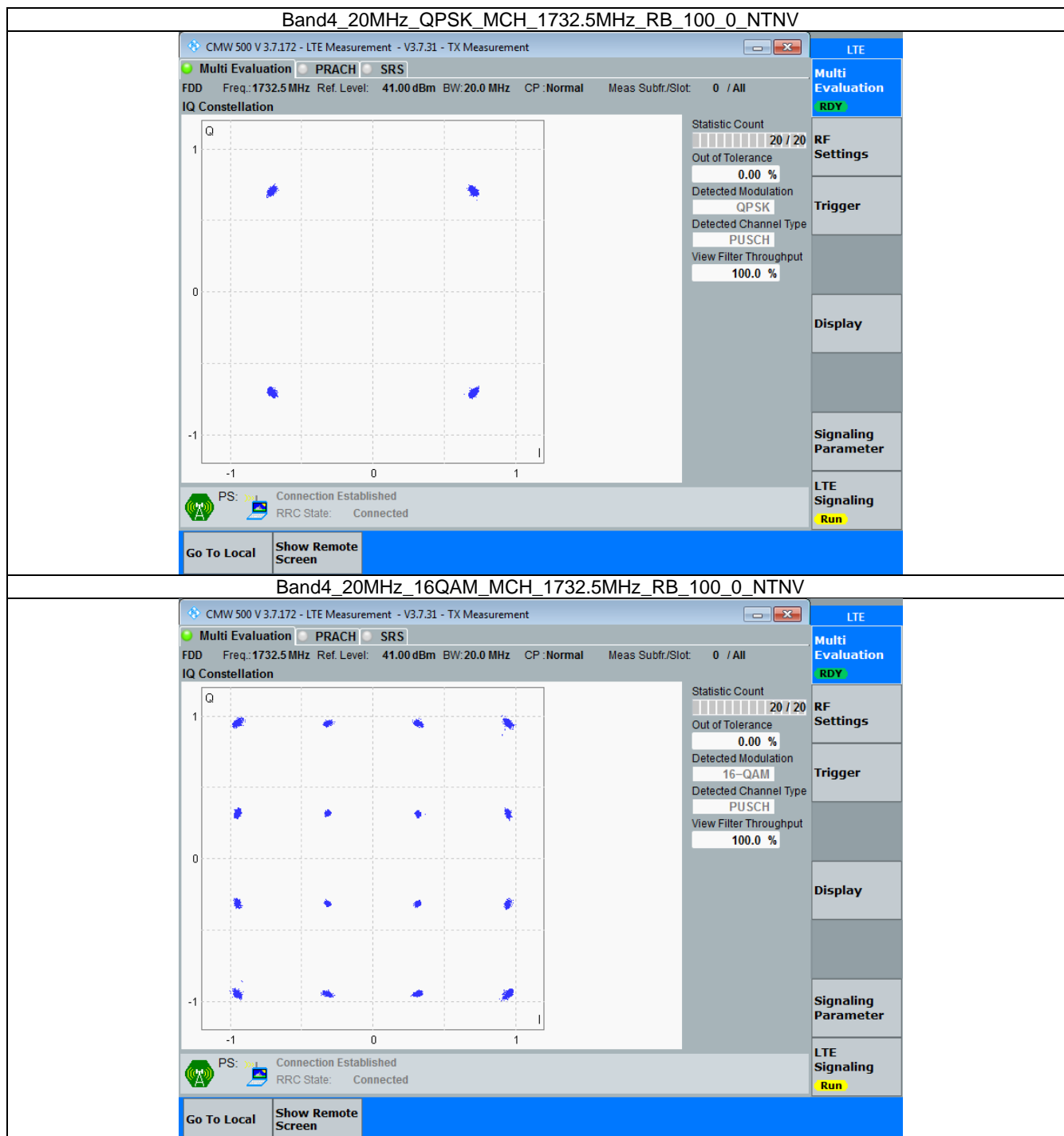
6. Modulation Characteristics

6.1 B5_1.4MHz

6.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	6	0	Refer To Test Graph		Pass
16QAM	836.5	6	0	Refer To Test Graph		Pass

6.1.2 Test Graph

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV
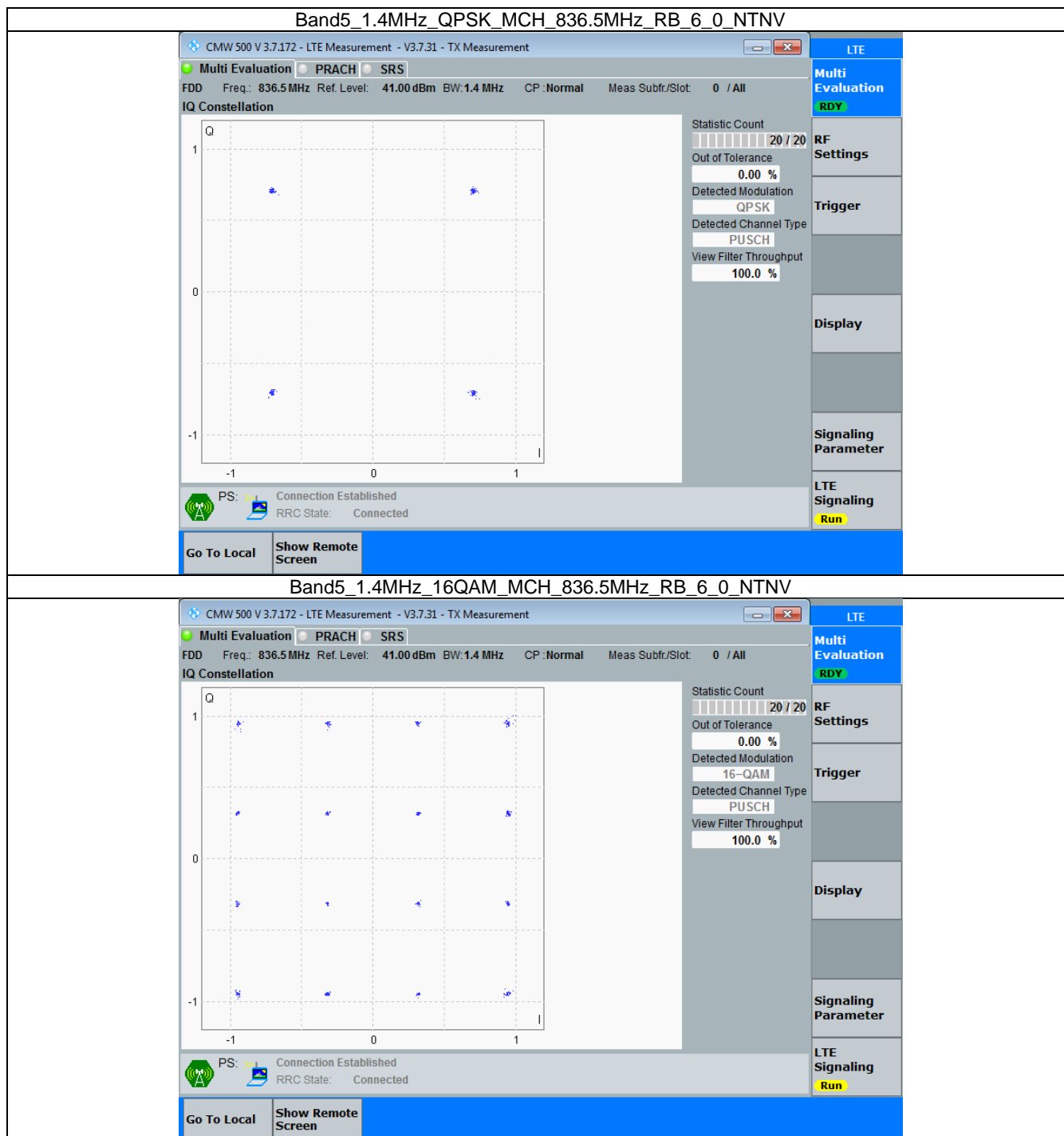
6.2 B5_3MHz

6.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	15	0	Refer To Test Graph		Pass
16QAM	836.5	15	0	Refer To Test Graph		Pass

6.2.2 Test Graph

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV
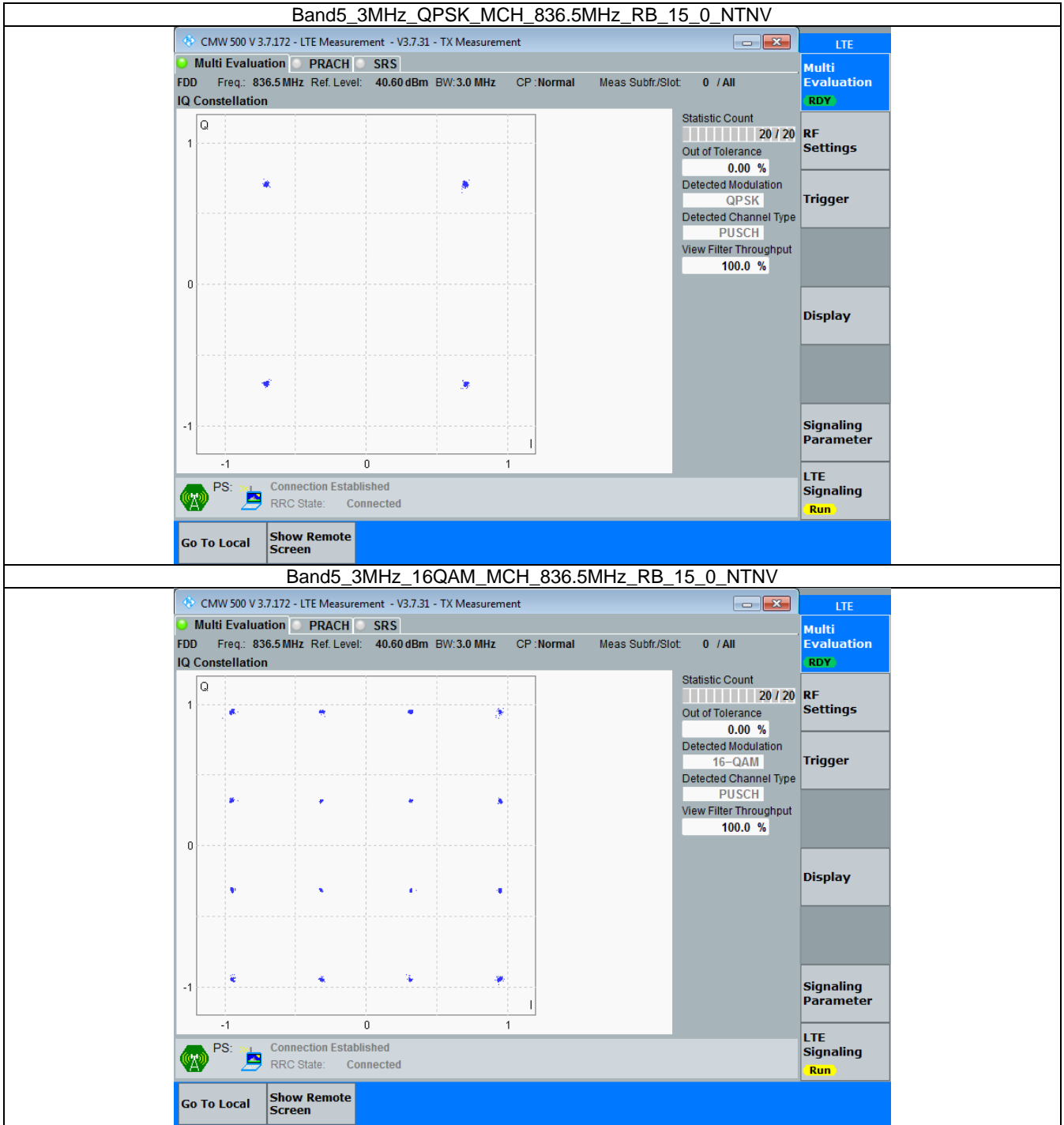
6.3 B5_5MHz

6.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

6.3.2 Test Graph

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV
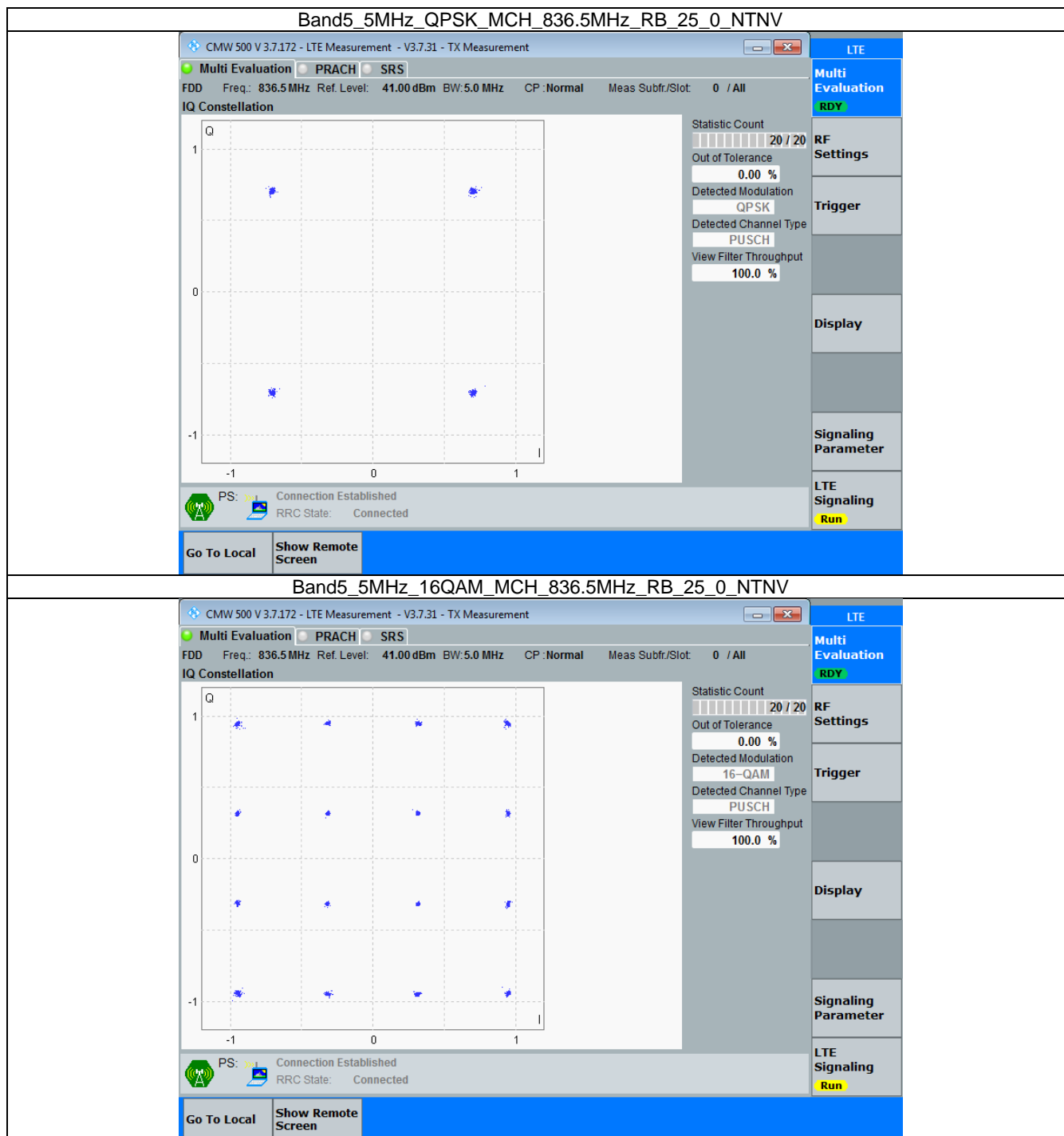
6.4 B5_10MHz

6.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

6.4.2 Test Graph

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV
CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement — LTE — Multi Evaluation / PRACH / SRS — FDD Freq.: 836.5 MHz Ref. Level: 41.00 dBm BW:10.0 MHz CP :Normal Meas Subfr./Slot: 0 / All — IQ Constellation — Statistic Count 20 / 20 — Out of Tolerance 0.00 % — Detected Modulation QPSK — Detected Channel Type PUSCH — View Filter Throughput 100.0 % — Multi Evaluation RDY — RF Settings — Trigger — Display — Signaling Parameter — LTE Signaling Run — PS: Connection Established — RRC State: Connected — Go To Local — Show Remote Screen

Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV
CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement — LTE — Multi Evaluation / PRACH / SRS — FDD Freq.: 836.5 MHz Ref. Level: 41.00 dBm BW:10.0 MHz CP :Normal Meas Subfr./Slot: 0 / All — IQ Constellation — Statistic Count 20 / 20 — Out of Tolerance 0.00 % — Detected Modulation 16–QAM — Detected Channel Type PUSCH — View Filter Throughput 100.0 % — Multi Evaluation RDY — RF Settings — Trigger — Display — Signaling Parameter — LTE Signaling Run — PS: Connection Established — RRC State: Connected — Go To Local — Show Remote Screen