



Appendix B

Modulation Characteristics

According to FCC Part 2.1047 & FCC Part 27C & 27M



Test Mode = TM6
 Channel Bandwidth = Lowest (5 MHz)
 Channel = M
 QPSK/full RBs

LTE Measurement - V3.0.10 - TX Measurement

Mode: FDD Freq.: 2535.0 MHz Ref. Level: 41.00 dBm Bandwidth: 5.0 MHz Cyclic Prefix: Normal Meas Subfr.: 0

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

Cell Setup ... Connection Setup ... TPC ... Power ... Enable CQI Reporting

LTE
 Multi Evaluation: RUN
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling: ON
 Config ...



Channel Bandwidth = 10 MHz
 Channel = M
 QPSK/full RBs

LTE Measurement - V3.0.10 - TX Measurement

Mode: FDD Freq.: 2535.0 MHz Ref. Level: 41.00 dBm Bandwidth: 10.0 MHz Cyclic Prefix: Normal Meas Subfr.: 0

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

Cell Setup ... Connection Setup ... TPC ... Power ... Enable CQI Reporting

LTE
 Multi Evaluation RUN
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON
 Config ...



Channel Bandwidth = 15 MHz
 Channel = M
 QPSK/full RBs

LTE Measurement - V3.0.10 - TX Measurement

Mode: FDD Freq.: 2535.0 MHz Ref. Level: 41.00 dBm Bandwidth: 15.0 MHz Cyclic Prefix: Normal Meas Subfr.: 0

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 64-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established

Cell Setup ... Connection Setup ... TPC ... Power ... Enable CQI Reporting

LTE
 Multi Evaluation RUN
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON
 Config ...



Channel Bandwidth = Highest (20 MHz)
 Channel = M
 QPSK/full RBs

LTE Measurement - V3.0.10 - TX Measurement

Mode: FDD Freq.: 2535.0 MHz Ref. Level: 41.00 dBm Bandwidth: 20.0 MHz Cyclic Prefix: Normal Meas Subfr.: 0

IQ Constellation

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

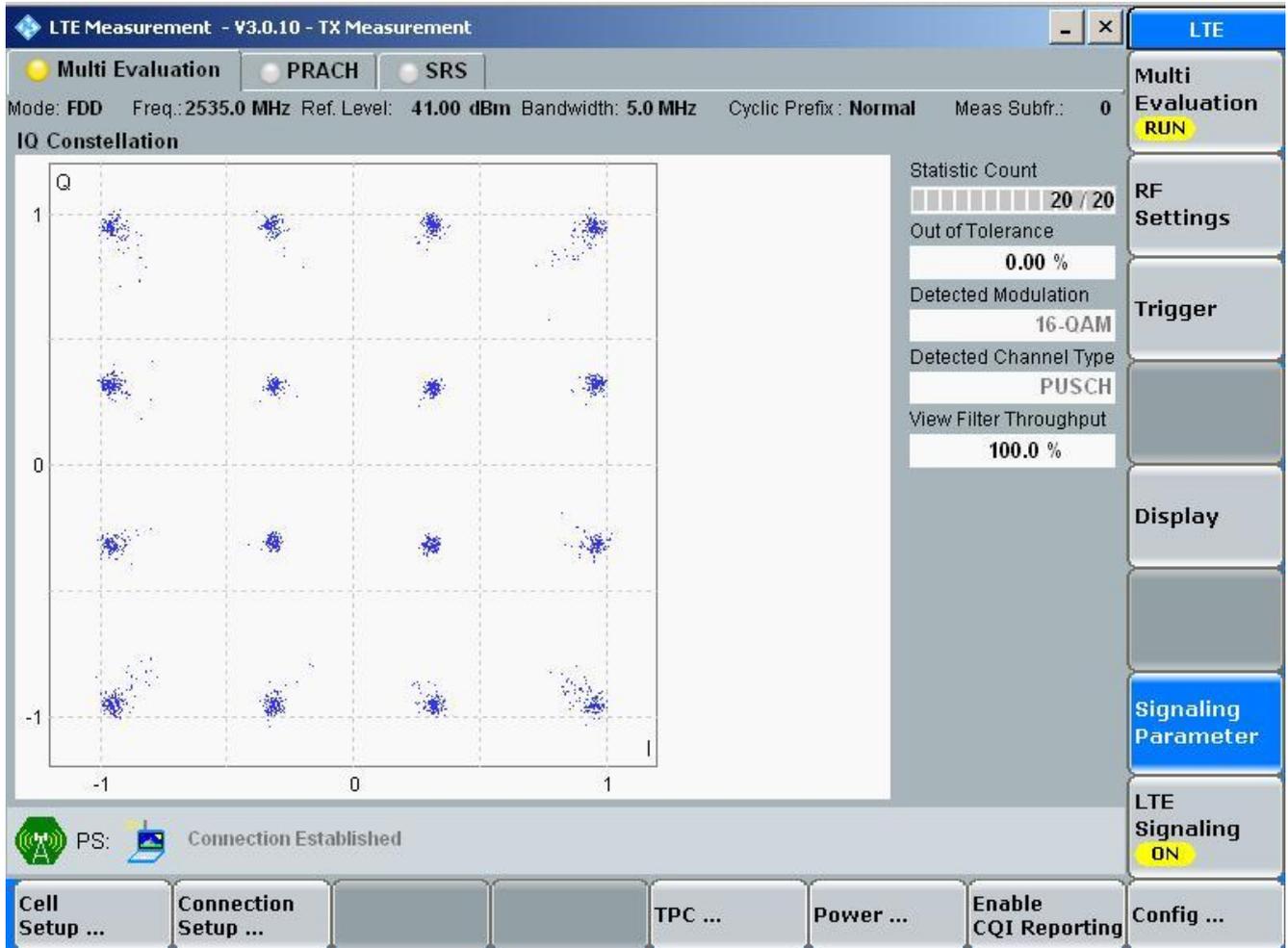
PS: Connection Established

Cell Setup ... Connection Setup ... TPC ... Power ... Enable CQI Reporting

LTE
 Multi Evaluation RUN
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON
 Config ...



Test Mode = TM7
 Channel Bandwidth = Lowest (5 MHz)
 Channel = M
 16QAM/full RBs





Channel Bandwidth = 10 MHz
 Channel = M
 16QAM/full RBs

LTE Measurement - V3.0.10 - TX Measurement

Mode: FDD Freq.: 2535.0 MHz Ref. Level: 41.00 dBm Bandwidth: 10.0 MHz Cyclic Prefix: Normal Meas Subfr.: 0

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

Cell Setup ... Connection Setup ... TPC ... Power ... Enable CQI Reporting Config ...

LTE

Multi Evaluation RUN

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling ON



Channel Bandwidth = 15 MHz
 Channel = M
 16QAM/full RBs

LTE Measurement - V3.0.10 - TX Measurement

Multi Evaluation
 PRACH
 SRS

Mode: FDD
 Freq.: 2535.0 MHz
 Ref. Level: 41.00 dBm
 Bandwidth: 15.0 MHz
 Cyclic Prefix: Normal
 Meas Subfr.: 0

IQ Constellation

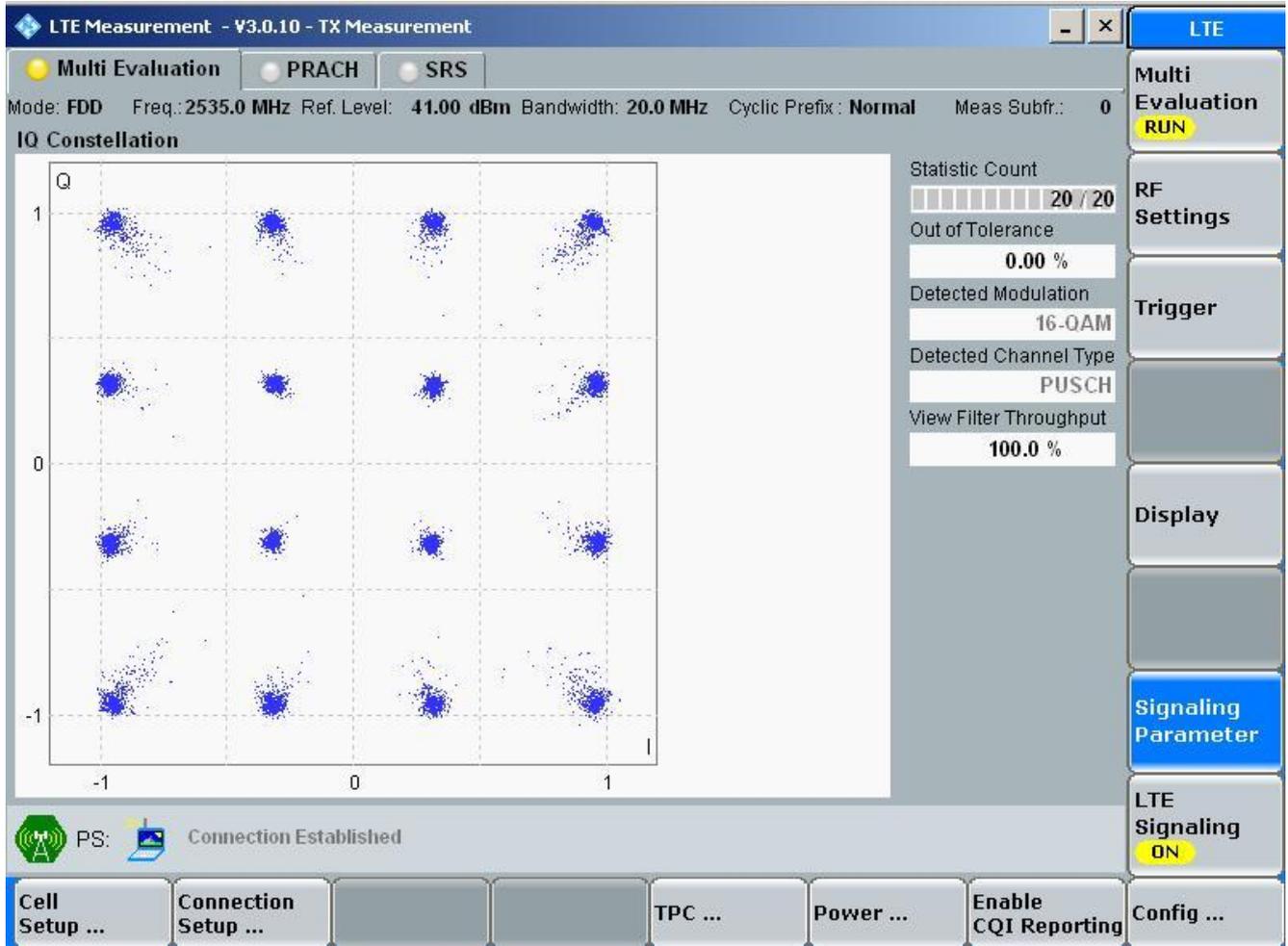
Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 16-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established

Cell Setup ...
 Connection Setup ...
 TPC ...
 Power ...
 Enable CQI Reporting
 Config ...

LTE
 Multi Evaluation **RUN**
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling **ON**

Channel Bandwidth = Highest (20 MHz)
Channel = M
16QAM/full RBs



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