Appendix A

RF Test Data for BT V4.0 (BDR/EDR) (Conducted Measurement)

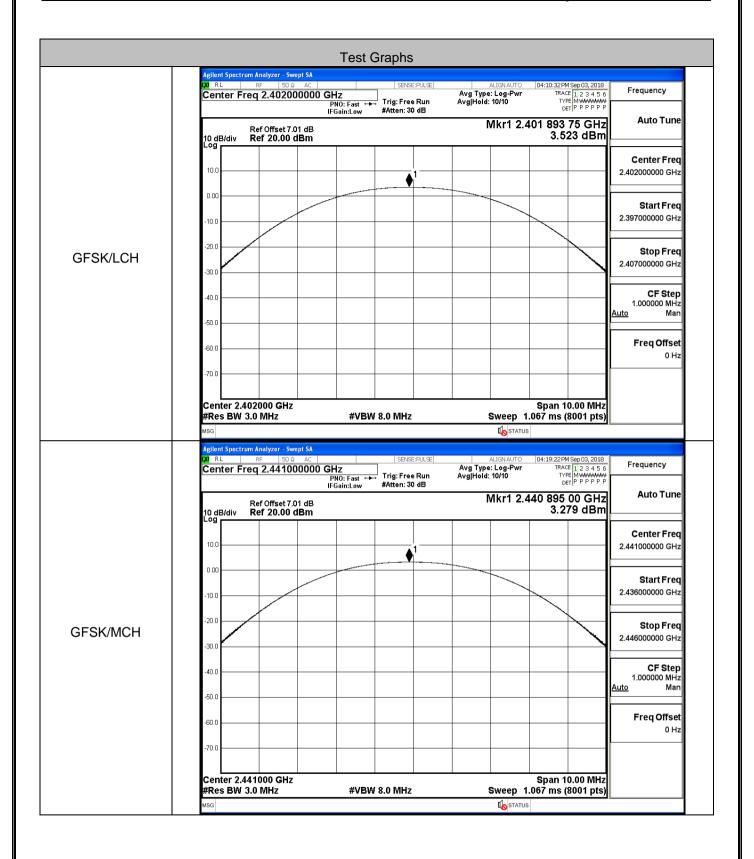
Product Name: TABLET PC
Trade Mark: FUSION5
Test Model: FWIN232 Plus

Environmental Conditions

| Temperature: | 24.5 ° C |
|--------------------|-------------|
| Relative Humidity: | 54.2% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Tom Liu |
| Supervised by: | Jayden Zhuo |

A.1 Maxmum Conducted Peak Output Power

| Mode | Channel. | Maximum Peak Output Power [dBm] | Limit [dBm] | Verdict |
|----------|---------------|---------------------------------|-------------|---------|
| | LCH | 3.523 | 21 | PASS |
| GFSK | MCH | 3.279 | 21 | PASS |
| | НСН | 3.188 | 21 | PASS |
| | LCH | 2.615 | 21 | PASS |
| π/4DQPSK | MCH | 2.555 | 21 | PASS |
| | НСН | 2.413 | 21 | PASS |
| | LCH | 2.740 | 21 | PASS |
| 8DPSK | 8DPSK MCH 2.6 | | 21 | PASS |
| | НСН | 2.519 | 21 | PASS |

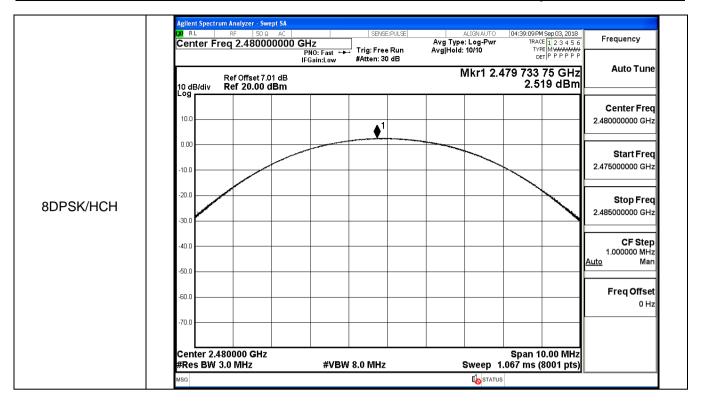


SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA TO 04:21:31 PM Sep 03, 2018 WY TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P P P P P P Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB Auto Tune Mkr1 2.479 910 00 GHz Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log 3.188 dBm Center Freq 10.1 2.480000000 GHz 0.00 Start Freq 2.475000000 GHz -10 O -20.0 Stop Freq GFSK/HCH 2.485000000 GHz **CF Step** 1.000000 MHz 40.0 <u>Auto</u> -50 C Freq Offset -60.0 0 Hz -70.0 Center 2.480000 GHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) #Res BW 3.0 MHz **#VBW 8.0 MHz** STATUS Agilent Spectrum Analyzer - Swept SA ALIGNAUTO 04:24:19PM Sep 03, 2018 De: Log-Pwr TRACE 11 2 3 4 5 6 TYPE MWWWWWW DET P P P P P P Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Auto Tune Mkr1 2.401 736 25 GHz Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log 2.615 dBm Center Freq 10.1 2.402000000 GHz 0.00 Start Freq 2.397000000 GHz -10.0 -20.0 Stop Freq π/4DQPSK/LCH 2.407000000 GHz **CF Step** 1.000000 MHz -40.0 <u>Auto</u> -50 O Freq Offset -60.0 0 Hz -70.0 Center 2.402000 GHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) #Res BW 3.0 MHz **#VBW 8.0 MHz** STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA O 04:27:01 PM Sep 03, 2018 WY TRACE 1 2 3 4 5 6 TYPE MWWWWWWW DET P P P P P P Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB Mkr1 2.441 008 75 GHz 2.555 dBm Auto Tune Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log Center Freq 10.1 2.441000000 GHz 0.00 Start Freq 2.436000000 GHz -10 O -20.0 Stop Freq π/4DQPSK/MCH 2.446000000 GHz **CF Step** 1.000000 MHz 40.0 <u>Auto</u> -50 C Freq Offset -60.0 0 Hz -70.0 Center 2.441000 GHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) #Res BW 3.0 MHz **#VBW 8.0 MHz** STATUS Agilent Spectrum Analyzer - Swept SA ALIGNAUTO 04:28:50 PM Sep 03, 2018 De: Log-Pwr TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P P P P P P Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Auto Tune Mkr1 2.479 913 75 GHz Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log 2.413 dBm Center Freq 10.1 2.480000000 GHz 0.00 Start Freq 2.475000000 GHz -10.0 -20.0 Stop Freq π/4DQPSK/HCH 2.485000000 GHz **CF Step** 1.000000 MHz -40.0 <u>Auto</u> -50 O Freq Offset -60.0 0 Hz -70.0 Center 2.480000 GHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) #Res BW 3.0 MHz **#VBW 8.0 MHz** STATUS

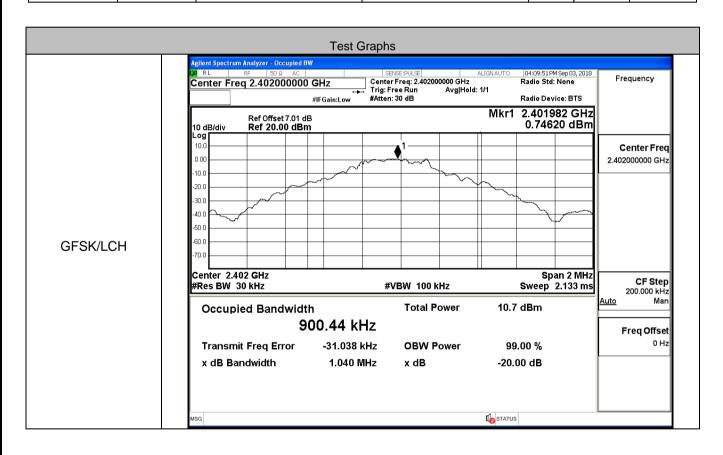
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA RL RF 50 \(\text{RC} \) AC | Center Freq 2.402000000 GHz PN0: Fast → IFGain:Low TO 04:31:42 PM Sep 03, 2018 WY TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P P P P P P Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB Auto Tune Mkr1 2.401 885 00 GHz Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log 2.740 dBm Center Freq 10.1 2.402000000 GHz 0.00 Start Freq 2.397000000 GHz -10 O -20.0 Stop Freq 8DPSK/LCH 2.407000000 GHz **CF Step** 1.000000 MHz 40.0 <u>Auto</u> -50 C Freq Offset -60.0 0 Hz -70.0 Center 2.402000 GHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) #Res BW 3.0 MHz **#VBW 8.0 MHz** STATUS Agilent Spectrum Analyzer - Swept SA ALIGNAUTO 04:34:38 PM Sep 03, 2018 be: Log-Pwr TRACE 1 2 3 4 5 6 10/10 TYPE MWWWWWW DET P P P P P P Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Auto Tune Mkr1 2.440 877 50 GHz Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log 2.642 dBm Center Freq 10.1 2.441000000 GHz 0.00 Start Freq 2.436000000 GHz -10.0 -20.0 Stop Freq 8DPSK/MCH 2.446000000 GHz **CF Step** 1.000000 MHz -40.0 <u>Auto</u> -50 O Freq Offset -60.0 0 Hz -70.0 Center 2.441000 GHz #Res BW 3.0 MHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) **#VBW 8.0 MHz** STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA



A.2 99% and 20dB Bandwidth

| Mode | Channel. | 99% Bandwidth [MHz] | 20dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|----------|----------------|---------------------|----------------------|---------------|---------|
| | LCH | 0.90044 | 1.040 | Not Specified | PASS |
| GFSK | MCH | 0.89767 | 1.036 | Not Specified | PASS |
| | HCH | 0.89627 | 1.032 | Not Specified | PASS |
| | LCH | 1.1691 | 1.288 | Not Specified | PASS |
| π/4DQPSK | MCH | 1.1697 | 1.288 | Not Specified | PASS |
| | HCH | 1.1699 | 1.289 | Not Specified | PASS |
| | LCH | 1.1764 | 1.291 | Not Specified | PASS |
| 8DPSK | PSK MCH 1.1773 | | 1.293 | Not Specified | PASS |
| | HCH | 1.1794 | 1.298 | Not Specified | PASS |



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA gilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.441000000 GHz Trig: Free Run Avg|Hold#Atten: 30 dB 04:18:42 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.441000000 GHz Avg|Hold: 1/1 Radio Device: BTS Mkr1 2.441122 GHz Ref Offset 7.01 dB Ref 20.00 dBm 0.76432 dBm 10 dB/div 10.0 Center Freq 0.00 2.441000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 -60.0 GFSK/MCH Center 2.441 GHz Span 2 MHz CF Step #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms 200,000 kHz <u>Auto</u> Occupied Bandwidth **Total Power** 10.5 dBm 897.67 kHz Freq Offset 0 Hz Transmit Freq Error -33.385 kHz **OBW Power** 99.00 % 1.036 MHz x dB Bandwidth x dB -20.00 dB STATUS Agilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB 04:20:50 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.480000000 GHz Avg|Hold: 1/1 #IFGain:Low Radio Device: BTS Mkr1 2.480124 GHz Ref Offset 7.01 dB Ref 20.00 dBm 0.81429 dBm 10 dB/div 10.0 Center Freq 0.00 2.480000000 GHz -10.0 -20.0 -30.0 40 O -50.0 GFSK/HCH Center 2.48 GHz Span 2 MHz CF Step 200.000 kHz #Res BW 30 kHz **#VBW 100 kHz** Sweep 2.133 ms <u> Auto</u> Occupied Bandwidth **Total Power** 10.5 dBm 896.27 kHz Freq Offset 0 Hz **Transmit Freq Error** -32.855 kHz **OBW Power** 99.00 % 1.032 MHz -20.00 dB x dB Bandwidth x dB STATUS

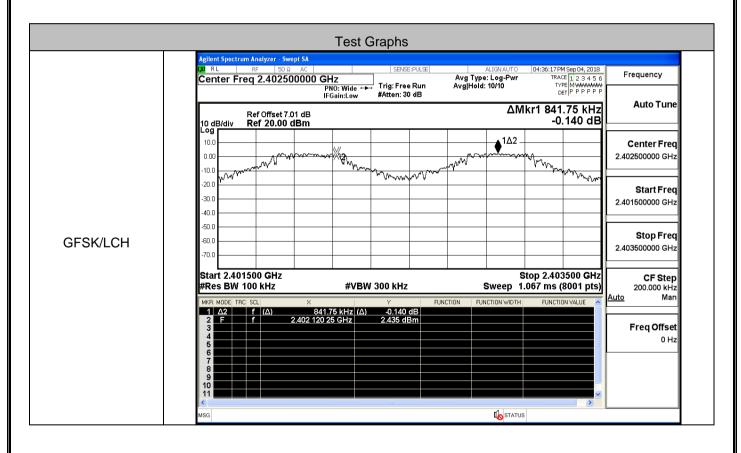
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA gilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hold#Atten: 30 dB 04:23:37 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.402000000 GHz Avg|Hold: 1/1 Radio Device: BTS Mkr1 2.402128 GHz Ref Offset 7.01 dB Ref 20.00 dBm -1.2546 dBm 10 dB/div 10.0 Center Freq 0.00 2.402000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 -60.0 π/4DQPSK/LCH Center 2.402 GHz Span 2 MHz CF Step #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms 200,000 kHz <u>Auto</u> Occupied Bandwidth **Total Power** 8.73 dBm 1.1691 MHz Freq Offset 0 Hz Transmit Freg Error -36.775 kHz **OBW Power** 99.00 % 1.288 MHz x dB Bandwidth x dB -20.00 dB STATUS Agilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.441000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB 04:26:20 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.441000000 GHz Avg|Hold:>1/1 #IFGain:Low Radio Device: BTS 2.441126 GHz Mkr1 Ref Offset 7.01 dB Ref 20.00 dBm -1.2672 dBm 10 d<u>B/div</u> 10.0 Center Freq 0.00 2.441000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 π/4DQPSK/MCH Center 2.441 GHz #Res BW 30 kHz Span 2 MHz CF Step 200.000 kHz **#VBW 100 kHz** Sweep 2.133 ms <u>Auto</u> Occupied Bandwidth **Total Power** 8.69 dBm 1.1697 MHz Freq Offset 0 Hz Transmit Freq Error -36.899 kHz **OBW Power** 99.00 % x dB Bandwidth 1.288 MHz -20.00 dB x dB STATUS

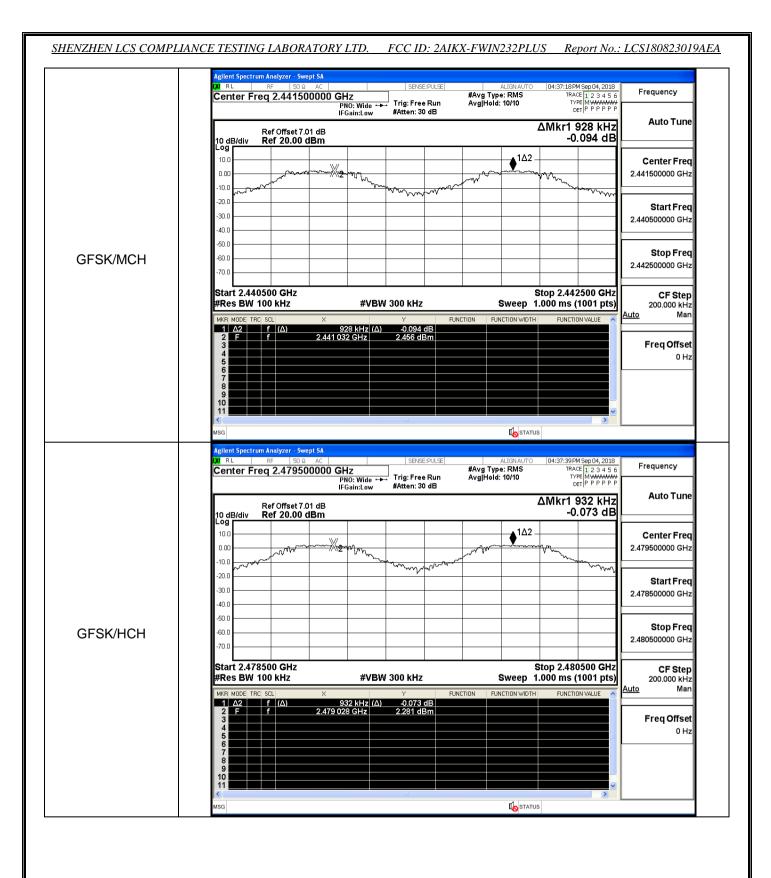
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA gilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hold#Atten: 30 dB 04:28:09 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.480000000 GHz Avg|Hold: 1/1 Radio Device: BTS Mkr1 2.480126 GHz Ref Offset 7.01 dB Ref 20.00 dBm -1.4232 dBm 10 dB/div 10.0 Center Freq 0.00 2.480000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 -60.0 π/4DQPSK/HCH Center 2.48 GHz Span 2 MHz CF Step #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms 200,000 kHz <u>Auto</u> Occupied Bandwidth **Total Power** 8.62 dBm 1.1699 MHz Freq Offset 0 Hz Transmit Freg Error -38.353 kHz **OBW Power** 99.00 % 1.289 MHz x dB Bandwidth x dB -20.00 dB STATUS Agilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB 04:31:01 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.402000000 GHz Avg|Hold: 1/1 #IFGain:Low Radio Device: BTS Mkr1 2.402126 GHz Ref Offset 7.01 dB Ref 20.00 dBm -0.47697 dBm 10 dB/div 10.0 Center Freq 0.00 2.402000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 8DPSK/LCH Center 2.402 GHz Span 2 MHz CF Step 200.000 kHz #Res BW 30 kHz **#VBW 100 kHz** Sweep 2.133 ms <u>Auto</u> Occupied Bandwidth **Total Power** 8.70 dBm 1.1764 MHz Freq Offset 0 Hz Transmit Freq Error -33.400 kHz **OBW Power** 99.00 % 1.291 MHz -20.00 dB x dB Bandwidth x dB STATUS

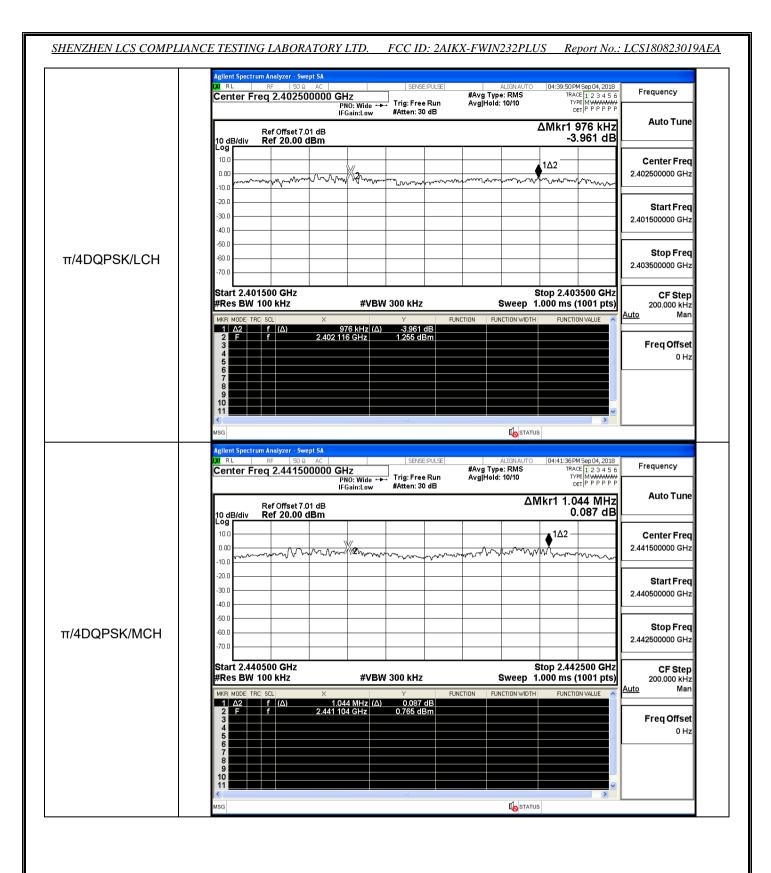
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.441000000 GHz Trig: Free Run Avg|Hold#Atten: 30 dB 04:33:57 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.441000000 GHz Avg|Hold: 1/1 Radio Device: BTS Mkr1 2.441128 GHz Ref Offset 7.01 dB Ref 20.00 dBm -0.60636 dBm 10 dB/div 10.0 Center Freq 0.00 2.441000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 -60.0 8DPSK/MCH Center 2.441 GHz Span 2 MHz CF Step #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms 200,000 kHz <u>Auto</u> Occupied Bandwidth **Total Power** 8.63 dBm 1.1773 MHz Freq Offset 0 Hz Transmit Freg Error -33.574 kHz **OBW Power** 99.00 % 1.293 MHz x dB Bandwidth x dB -20.00 dB STATUS Agilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB 04:38:28 PM Sep 03, 2018 Radio Std: None Frequency Center Freq 2.480000000 GHz Avg|Hold:>1/1 #IFGain:Low Radio Device: BTS Mkr1 2.48012 GHz Ref Offset 7.01 dB Ref 20.00 dBm -0.96101 dBm 10 d<u>B/div</u> 10.0 Center Freq 0.00 2.480000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 8DPSK/HCH Center 2.48 GHz Span 2 MHz CF Step 200.000 kHz #Res BW 30 kHz **#VBW 100 kHz** Sweep 2.133 ms <u>Auto</u> Occupied Bandwidth **Total Power** 8.62 dBm 1.1794 MHz Freq Offset 0 Hz Transmit Freq Error -34.204 kHz **OBW Power** 99.00 % 1.298 MHz -20.00 dB x dB Bandwidth x dB STATUS

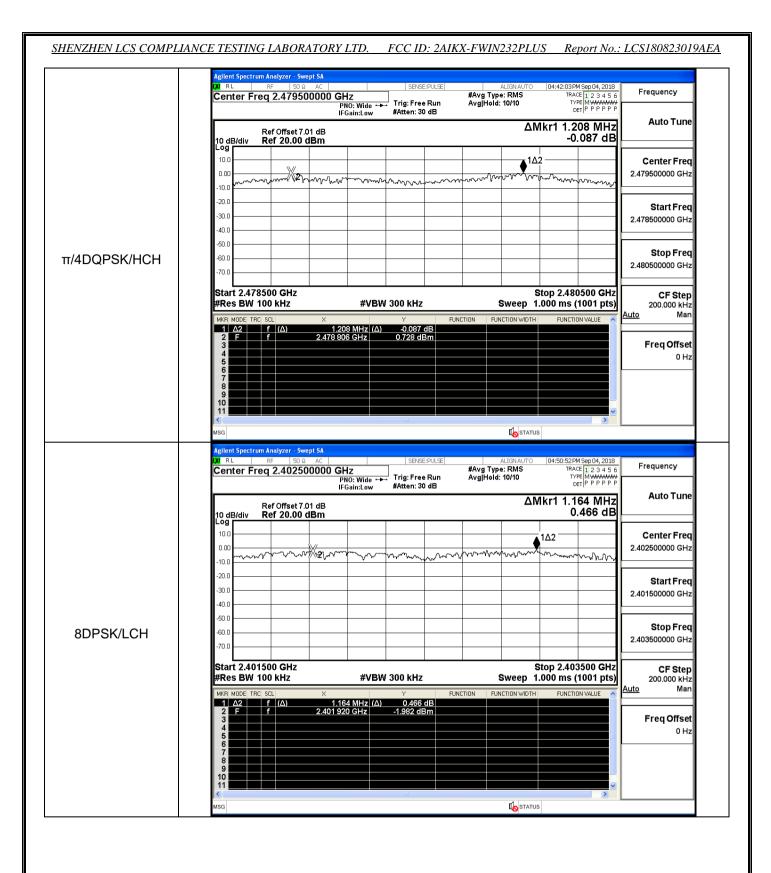
A.3 Carrier Frequency Separation

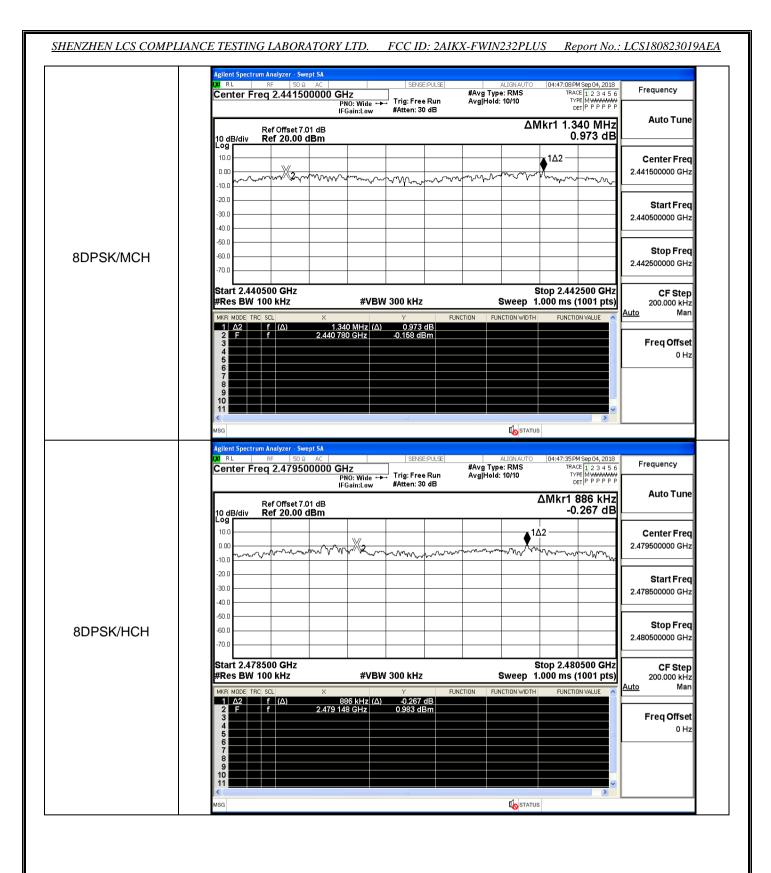
| Mode | Channel. | Carrier Frequency Separation [MHz] | Limit [MHz] | Verdict |
|----------|----------|------------------------------------|-------------|---------|
| | LCH | 0.842 | 0.693 | PASS |
| GFSK | MCH | 0.928 | 0.691 | PASS |
| | HCH | 0.932 | 0.688 | PASS |
| | LCH | 0.976 | 0.859 | PASS |
| π/4DQPSK | MCH | 1.044 | 0.859 | PASS |
| | HCH | 1.208 | 0.859 | PASS |
| | LCH | 1.164 | 0.861 | PASS |
| 8DPSK | MCH | 1.340 | 0.862 | PASS |
| | HCH | 0.886 | 0.865 | PASS |





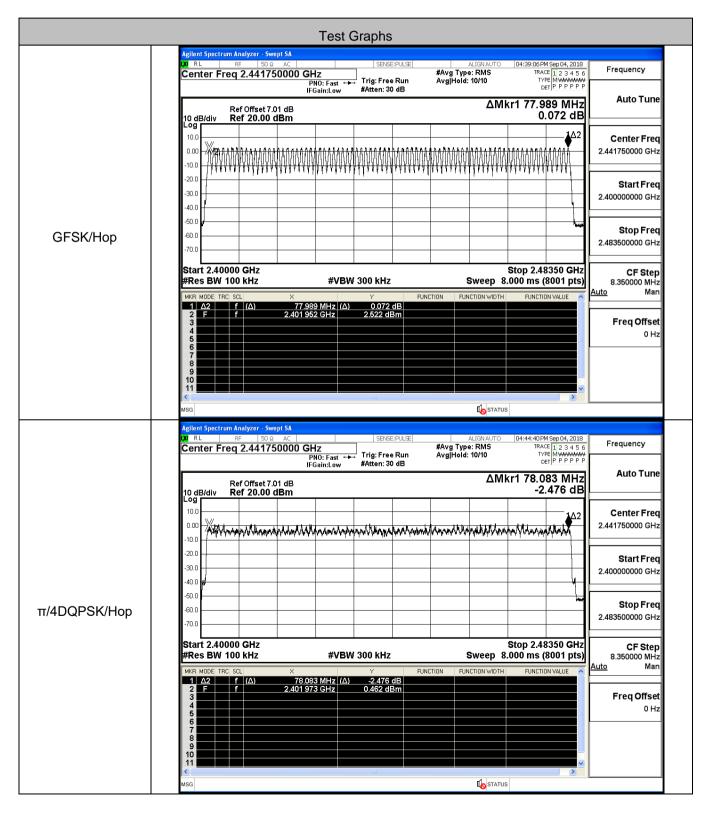






A.4 Hopping Channel Number

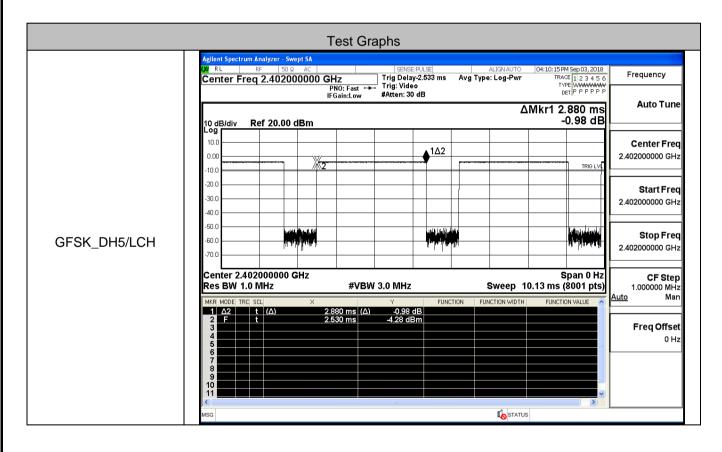
| Mode | Channel. | Number of Hopping Channel [N] | Limit [N] | Verdict |
|----------|----------|-------------------------------|-----------|---------|
| GFSK | Нор | 79 | >=15 | PASS |
| π/4DQPSK | Нор | 79 | >=15 | PASS |
| 8DPSK | Нор | 79 | >=15 | PASS |



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC | Center Freq 2.441750000 GHz PN0: Fast IFGain:Low 04:50:12PM Sep 04, 2018 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency Trig: Free Run #Atten: 30 dB Auto Tune ΔMkr1 78.062 MHz -2.797 dB Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq 2.441750000 GHz 0.00 Maranthy rome of the control of the -10.0 -20.0 Start Freq -30.0 2.400000000 GHz 40.0 -50.0 Stop Freq 8DPSK/Hop -60.0 2.483500000 GHz 70.0 Start 2.40000 GHz Stop 2.48350 GHz CF Step 8.350000 MHz Sweep 8.000 ms (8001 pts) #Res BW 100 kHz **#VBW** 300 kHz <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE 78.062 MHz (Δ) 2.401 983 GHz -2.797 dB 1.451 dBm Freq Offset 0 Hz STATUS

A.5 Dwell Time

| Mode | Packet | Channel | Burst Width [ms/hop/ch] | Total Hops[hop*ch] | Dwell Time[s] | Limit [s] | Verdict |
|----------|--------|---------|----------------------------|-----------------------|---------------|-----------|---------|
| | DH5 | LCH | 2.88 | 106.7 | 0.307 | 0.4 | PASS |
| GFSK | DH5 | MCH | 2.88 | 106.7 | 0.307 | 0.4 | PASS |
| | DH5 | HCH | 2.88 | 106.7 | 0.307 | 0.4 | PASS |
| | 2DH5 | LCH | 2.88 | 106.7 | 0.307 | 0.4 | PASS |
| π/4DQPSK | 2DH5 | MCH | 2.88 | 106.7 | 0.307 | 0.4 | PASS |
| | 2DH5 | HCH | 2.88 | 106.7 | 0.307 | 0.4 | PASS |
| 8DPSK | 3DH5 | LCH | 2.89 | 106.7 | 0.308 | 0.4 | PASS |
| | 3DH5 | MCH | 2.89 | 106.7 | 0.308 | 0.4 | PASS |
| | 3DH5 | HCH | 2.89 | 106.7 | 0.308 | 0.4 | PASS |



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA | SENSE:PUSE | ALIGNAUTO | Trig Delay-2.533 ms | Avg Type: Log-Pwr | Trig: Video |#Atten: 30 dB 04:19:05 PM Sep 03, 2018 TRACE 1 2 3 4 5 6 Frequency Center Freq 2.441000000 GHz PNO: Fast ++IFGain:Low DET PPPP **Auto Tune** ΔMkr1 2.880 ms -0.71 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq 1∆2 2.441000000 GHz 0.00 TRIG LV 10.0 -20.0 Start Freq -30.0 2.441000000 GHz -40.0 -50.0 Stop Freq -60.0 GFSK_DH5/MCH 2.441000000 GHz -7n n Center 2.441000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Sweep 10.13 ms (8001 pts) Res BW 1.0 MHz **#VBW** 3.0 MHz <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE -0.71 dB -4.60 dBm Freq Offset 0 Hz STATUS Agilent Spectrum Analyzer - Swept SA SENSE:PULSE Trig Delay-2.533 ms Trig: Video #Atten: 30 dB ALIGNAUTO 04:21:14 PM Sep 03, 2018 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 © RL RF | 50 Ω AL | Center Freq 2.480000000 GHz PN0: Fast → IFGain:Low Frequency **Auto Tune** ΔMkr1 2.880 ms 0.55 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq 1∆2 2.480000000 GHz 0.00 TRIG LV 10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 Stop Freq GFSK_DH5/HCH -60.0 2.480000000 GHz -7n n Center 2.480000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8001 pts) FUNCTION FUNCTION WIDTH FUNCTION VALUE 0.55 dB -5.27 dBm Freq Offset 0 Hz STATUS

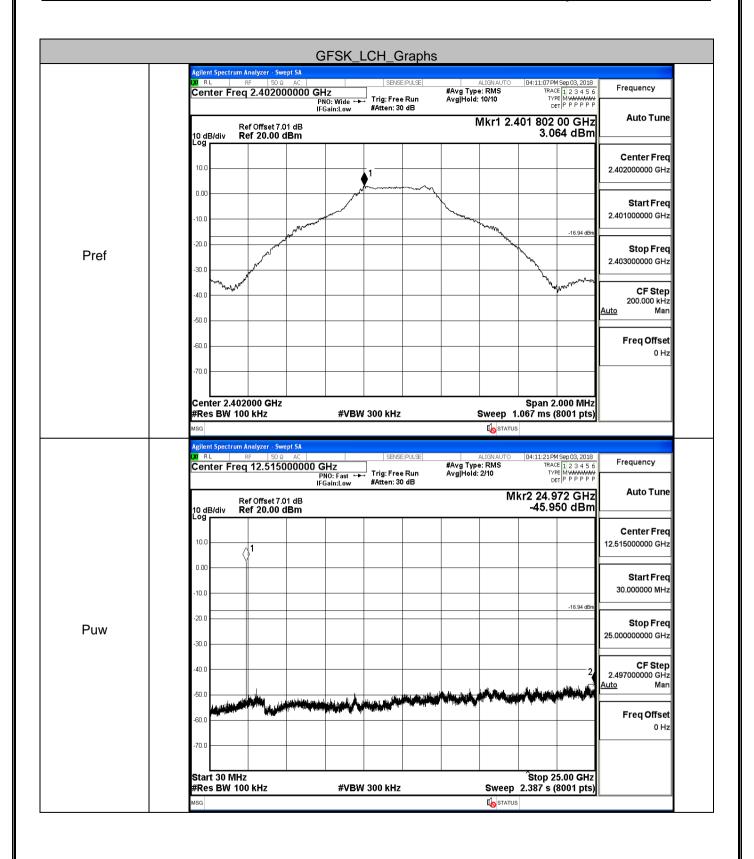
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA 04:24:01PM Sep 03, 2018 TRACE 1 2 3 4 5 6 Trig Delay-2.533 ms Avg Type: Log-Pwr Trig: Video #Atten: 30 dB Frequency Center Freq 2.402000000 GHz PNO: Fast ++IFGain:Low **Auto Tune** ΔMkr1 2.884 ms 0.55 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq **≜**1∆2 2.402000000 GHz 0.00 10.0 TRIG LY -20.0 Start Freq -30.0 2.402000000 GHz -40.0 -50.0 π/4DQPSK Stop Freq -60.0 2.402000000 GHz 2DH5/LCH -7n n Center 2.402000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Sweep 10.13 ms (8001 pts) Res BW 1.0 MHz **#VBW** 3.0 MHz <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE 0.55 dB -7.73 dBm Freq Offset 0 Hz STATUS Agilent Spectrum Analyzer - Swept SA Center Freq 2.441000000 GHz PN0: Fast → IFGain:Low Frequency **Auto Tune** ΔMkr1 2.884 ms -0.49 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq 0.00 2.441000000 GHz 10.0 -20.0 Start Freq -30.0 2.441000000 GHz -40.0 -50.0 π/4DQPSK Stop Freq -60.0 2.441000000 GHz _2DH5/MCH -7n n Center 2.441000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8001 pts) FUNCTION FUNCTION WIDTH FUNCTION VALUE Freq Offset 0 Hz STATUS

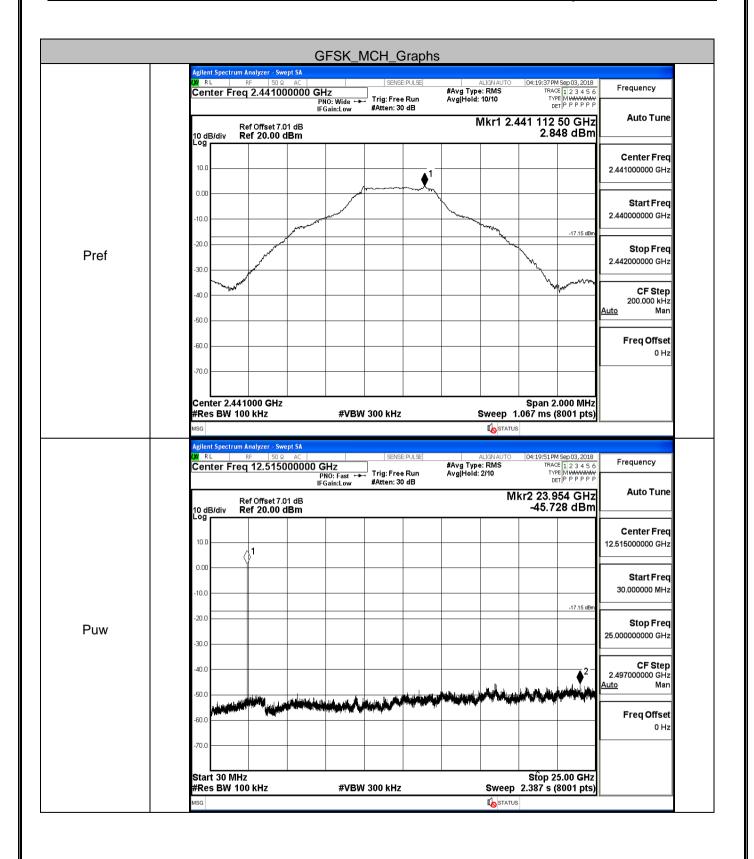
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA M RL RF | 50 Ω AC | Center Freq 2.480000000 GHz PN0: Fast → IFGain:Low | SENSE:PUSE | ALIGNAUTO | Trig Delay-2.533 ms | Avg Type: Log-Pwr | Trig: Video |#Atten: 30 dB 04:28:33 PM Sep 03, 2018 TRACE 1 2 3 4 5 6 Frequency DET PPPP **Auto Tune** ΔMkr1 2.884 ms -3.27 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq <u>∓</u>1Δ2 2.480000000 GHz 0.00 10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 π/4DQPSK Stop Freq -60.0 2.480000000 GHz 2DH5/HCH -7n n Center 2.480000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Sweep 10.13 ms (8001 pts) Res BW 1.0 MHz **#VBW** 3.0 MHz <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE 2.884 ms (Δ) 700.5 μs Freq Offset 0 Hz STATUS Agilent Spectrum Analyzer - Swept SA M RL RF | 50 Q AL | Center Freq 2.402000000 GHz PN0: Fast ---IFGain:Low Frequency **Auto Tune** ΔMkr1 2.885 ms -2.21 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq 1∆2 2.402000000 GHz 0.00 10.0 -20.0 Start Freq -30.0 2.402000000 GHz -40.0 -50.0 Stop Freq 8DPSK_3DH5/LCH -60.0 2.402000000 GHz -7n n Center 2.402000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8001 pts) FUNCTION FUNCTION WIDTH FUNCTION VALUE -2.21 dB -5.56 dBm Freq Offset 0 Hz STATUS

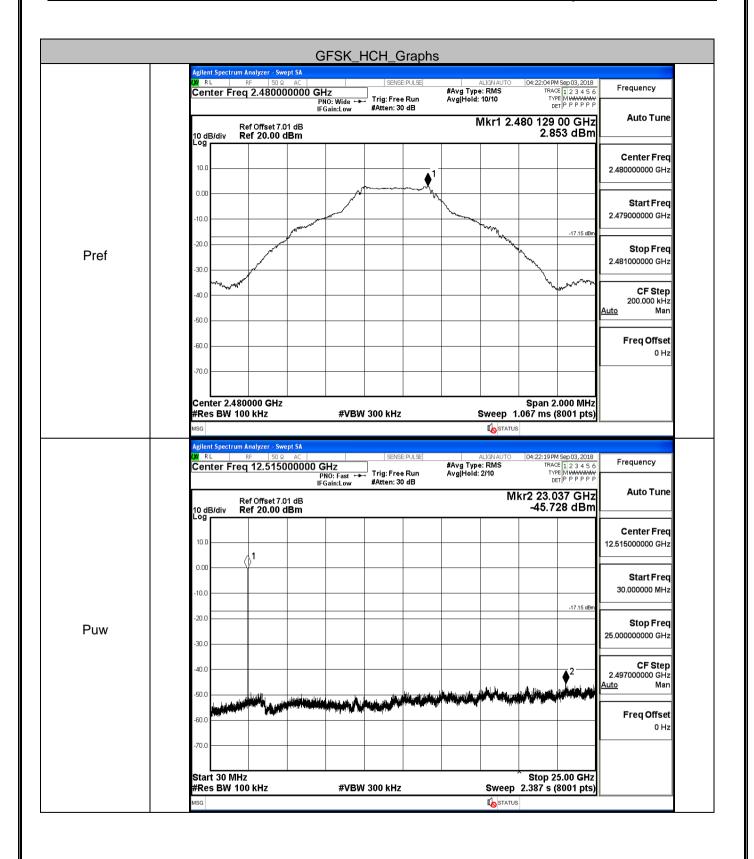
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA M RL RF | 50 Ω AC | Center Freq 2.441000000 GHz PN0: Fast → IFGain:Low | SENSE:PUSE | ALIGNAUTO | Trig Delay-2.533 ms | Avg Type: Log-Pwr | Trig: Video |#Atten: 30 dB 04:34:21 PM Sep 03, 2018 TRACE 1 2 3 4 5 6 Frequency DET PPPP **Auto Tune** ΔMkr1 2.885 ms -1.50 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq **→**1¹/₂ 2.441000000 GHz 0.00 10.0 -20.0 Start Freq -30.0 2.441000000 GHz -40.0 -50.0 Stop Freq -60.0 8DPSK _3DH5/MCH 2.441000000 GHz -7N I Center 2.441000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Sweep 10.13 ms (8001 pts) Res BW 1.0 MHz **#VBW** 3.0 MHz <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE -1.50 dB -5.74 dBm 2.885 ms (Δ) 843.6 μs Freq Offset 0 Hz STATUS Agilent Spectrum Analyzer - Swept SA © RL RF | 50 Ω AL | Center Freq 2.480000000 GHz PN0: Fast → IFGain:Low Frequency **Auto Tune** ΔMkr1 2.885 ms -1.88 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq **≜**1∆2 0.00 2.480000000 GHz 10.0 TRIG L -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 Stop Freq 8DPSK_3DH5/HCH -60.0 2.480000000 GHz -7n n Center 2.480000000 GHz Span 0 Hz **CF Step** 1.000000 MHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8001 pts) FUNCTION FUNCTION WIDTH FUNCTION VALUE Freq Offset 0 Hz STATUS

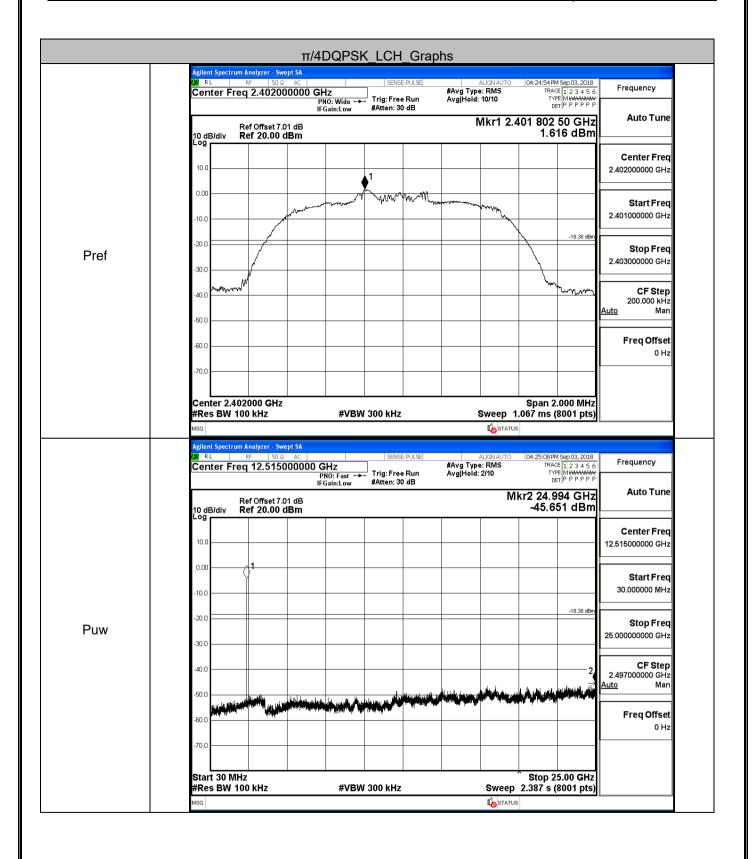
A.6 RF Conducted Spurious Emissions

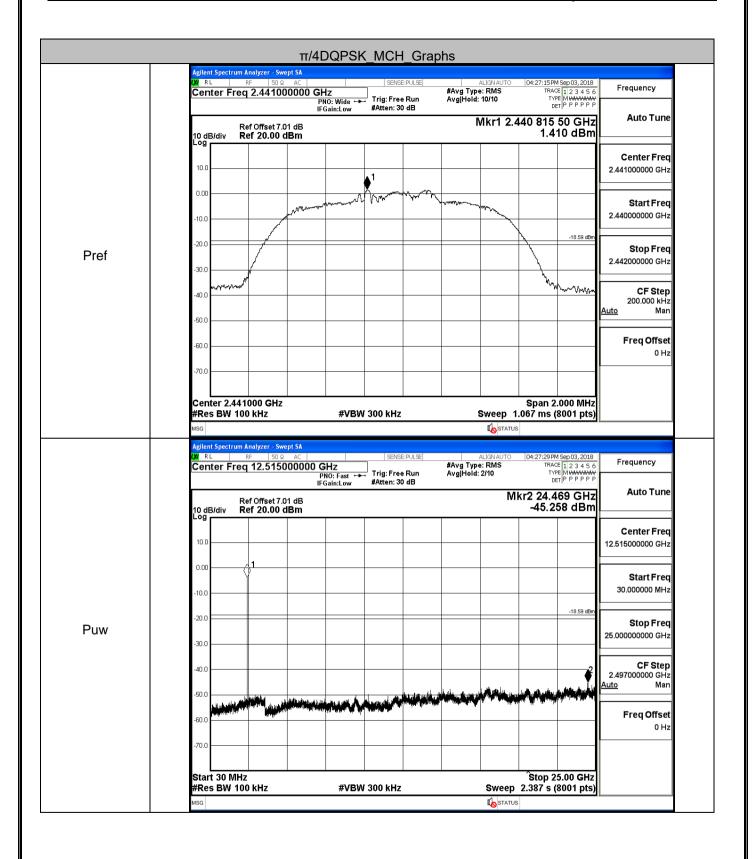
| Mode | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|----------|---------|------------|------------------|-------------|---------|
| | LCH | 3.064 | -45.950 | -16.936 | PASS |
| GFSK | MCH | 2.848 | -45.728 | -17.152 | PASS |
| | НСН | 2.853 | -45.728 | -17.147 | PASS |
| | LCH | 1.616 | -45.651 | -18.384 | PASS |
| π/4DQPSK | MCH | 1.41 | -45.258 | -18.590 | PASS |
| | НСН | 1.322 | -45.383 | -18.678 | PASS |
| 8DPSK | LCH | 1.341 | -46.241 | -18.659 | PASS |
| | MCH | 1.51 | -45.915 | -18.490 | PASS |
| | НСН | 1.473 | -45.637 | -18.527 | PASS |

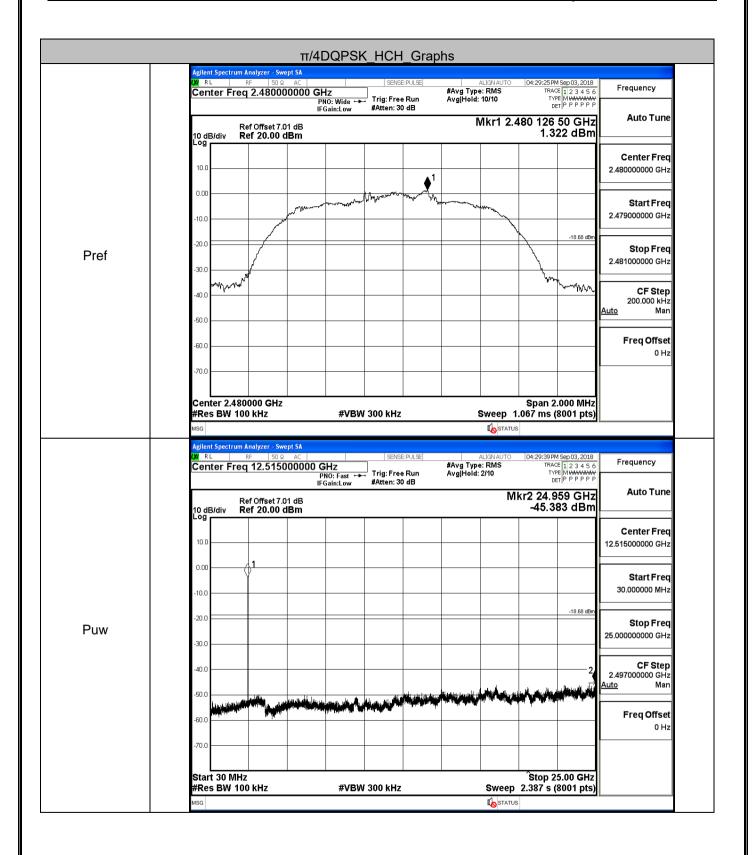


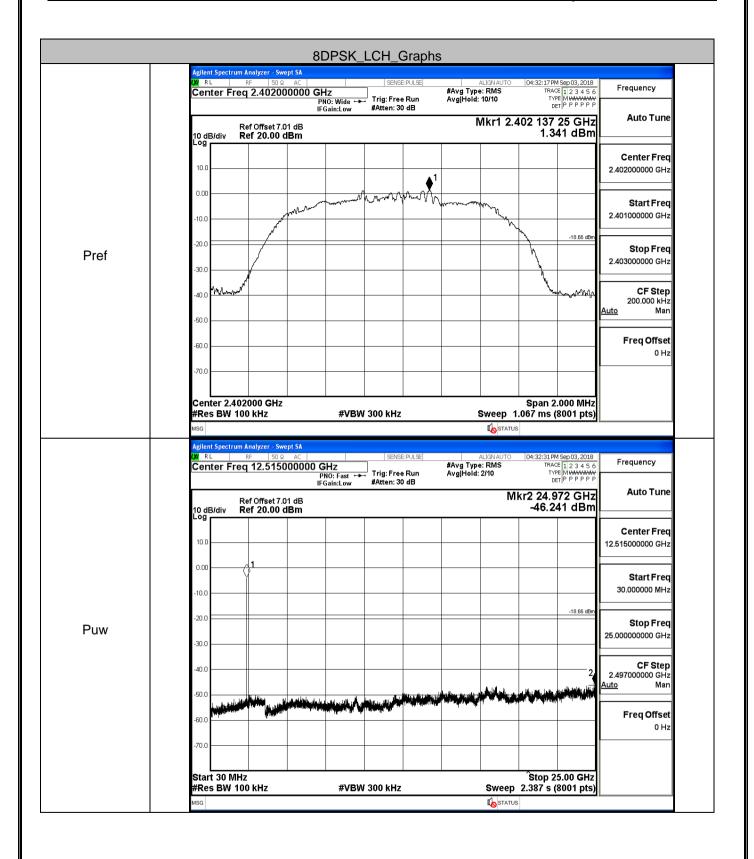


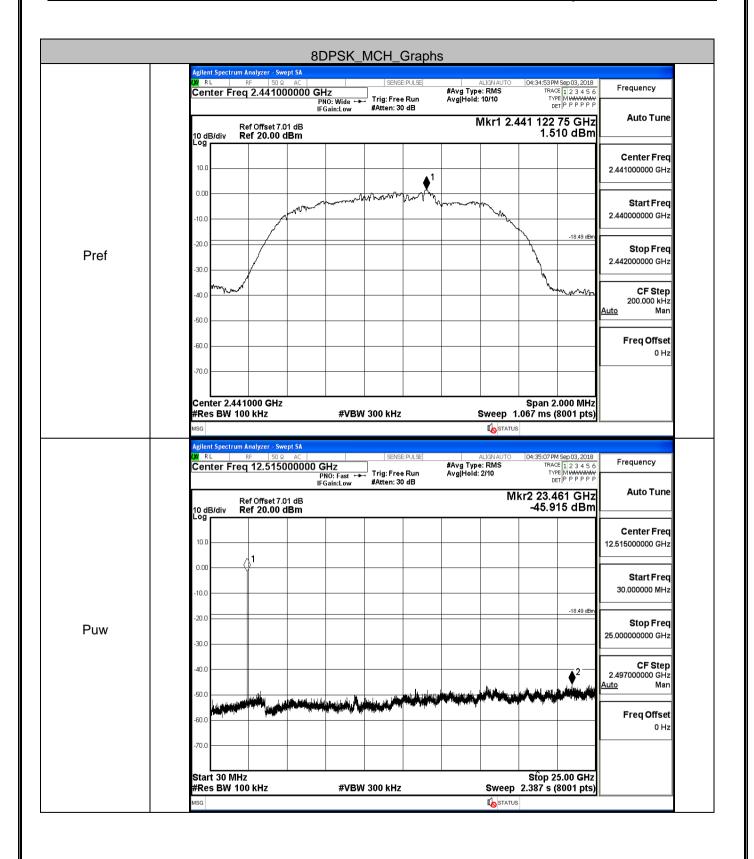


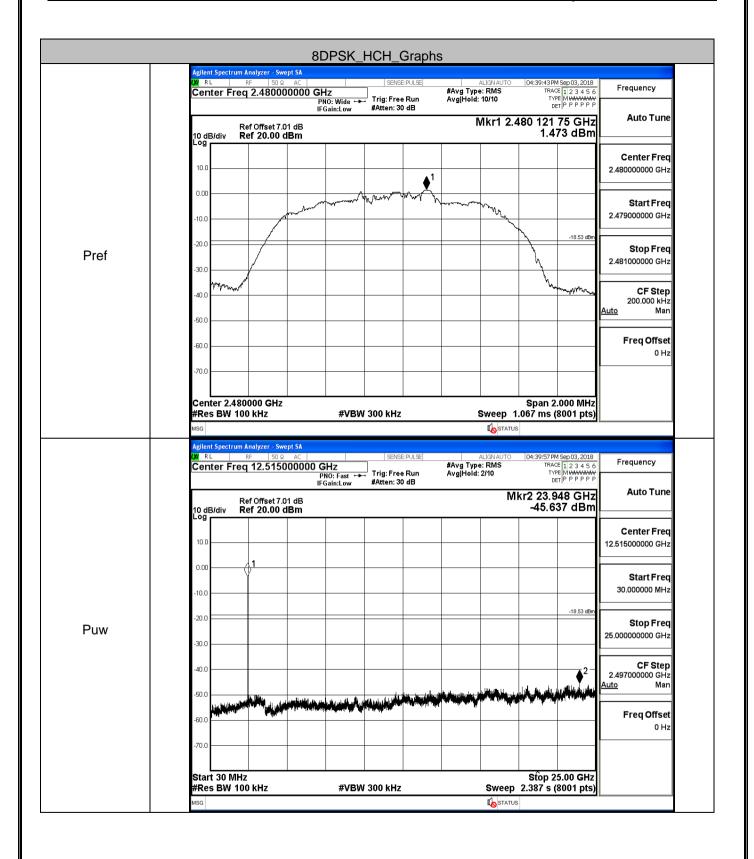






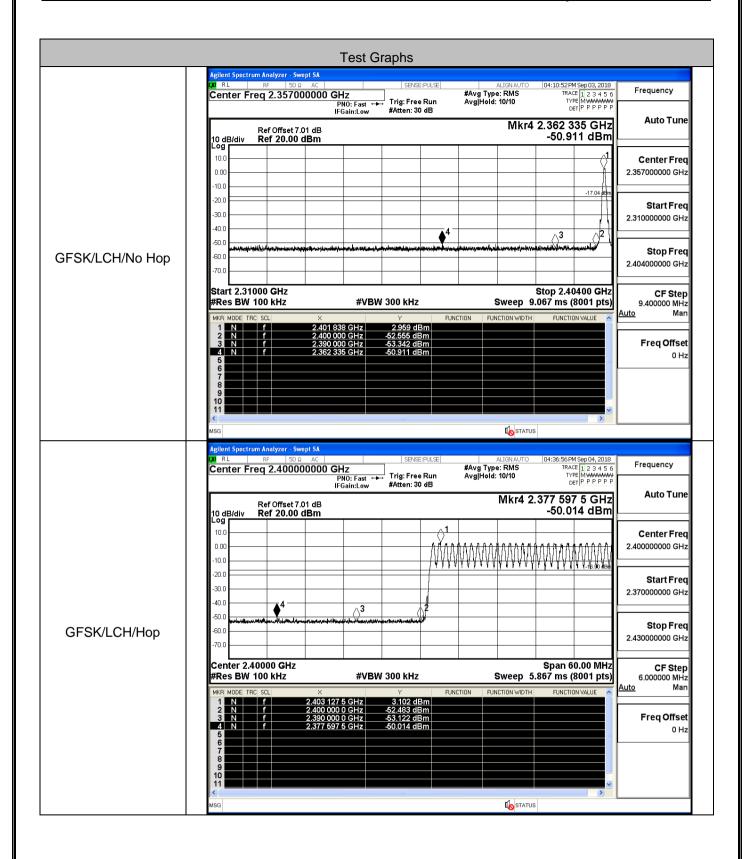






A.7 Band-edge for RF Conducted Emissions

| Mode | Channel | Carrier Frequency [MHz] | Carrier Power [dBm] | Frequency Hopping | Max Spurious Level [dBm] | Limit [dBm] | Verdict | |
|----------|---------|-------------------------------|---------------------------|----------------------|-----------------------------------|----------------|---------|------|
| | | | 2.959 | Off | -50.911 | -17.04 | PASS | |
| 2-21/ | LCH | 2402 | 3.102 | On | -50.014 | -16.9 | PASS | |
| GFSK | нсн | 2480 | 2.923 | Off | -50.608 | -17.08 | PASS | |
| | | | 2.944 | On | -50.415 | -17.06 | PASS | |
| | LCH | | | -0.600 | Off | -50.653 | -20.6 | PASS |
| | | 2402 | 1.299 | On | -49.907 | -18.7 | PASS | |
| π/4DQPSK | нсн | | 1.542 | Off | -50.539 | -18.46 | PASS | |
| | | 2480 | 1.492 | On | -50.304 | -18.51 | PASS | |
| | | | 1.341 | Off | -50.610 | -18.66 | PASS | |
| | LCH | 2402 | 1.403 | On | -50.529 | -18.6 | PASS | |
| 8DPSK | | | 1.530 | Off | -50.687 | -18.47 | PASS | |
| | HCH | 2480 | 1.509 | On | -50.257 | -18.49 | PASS | |



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA 04:21:50 PM Sep 03, 2018 TRACE 1 2 3 4 5 6 #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.489000000 GHz PNO: Fast +> IFGain:Low Trig: Free Run #Atten: 30 dB DET PPPP **Auto Tune** Mkr4 2.497 555 25 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.608 dBm 10 dB/div 10 (Center Freq 2.489000000 GHz 0.0 10.0 -17.08 di -20.0 Start Freq 30 2.478000000 GHz -40.0 -50.0 Mark Market Stop Freq -60.0 GFSK/HCH/No Hop 2.500000000 GHz .7n r Start 2.47800 GHz Stop 2.50000 GHz CF Step Sweep 2.133 ms (8001 pts) #Res BW 100 kHz #VBW 300 kHz 2.200000 MHz Auto FUNCTION FUNCTION WIDTH Freq Offset 0 Hz STATUS kgilent Spectrum Analyzer - Swept SA 04:38:18 PM Sep 04, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.483500000 GHz PNO: Fast +++ IFGain:Low Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr4 2.498 185 0 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.415 dBm 10 dB/div Log 10.0 Center Freq 2.483500000 GHz 0.0 -10.0 -20. Start Freq -30.0 2.453500000 GHz -40.0 **∮**⁴∕_○3 <u></u>2 -50.0 Stop Freq GFSK/HCH/Hop -60.0 2.513500000 GHz .7n r Center 2.48350 GHz Span 60.00 MHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (8001 pts) 6.000000 MHz <u>Auto</u> Man FUNCTION FUNCTION WIDTH FUNCTION VALUE Freq Offset 0 Hz STATUS /ISG

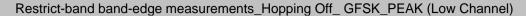
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA . Agilent Spectrum Analyzer - Swept SA 04:29:10 PM Sep 03, 2018 TRACE 1 2 3 4 5 6 #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.489000000 GHz PNO: Fast ↔ IFGain:Low Tria: Free Run DET PPPP **Auto Tune** Mkr4 2.494 370 75 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.539 dBm 10 dB/div 10 (Center Freq 0.0 2 489000000 GHz 10.0 -18.46 di -20.0 Start Freq -3n r 2.478000000 GHz -40.0 -50.0 π/4DQPSK/HCH/No NAME OF THE PERSON OF THE PERS Stop Freq -60.0 2.500000000 GHz Hop -7n r Start 2.47800 GHz Stop 2.50000 GHz **CF Step** 2.200000 MHz Sweep 2.133 ms (8001 pts) #Res BW 100 kHz #VBW 300 kHz Auto FUNCTION Freq Offset 0 Hz STATUS kgilent Spectrum Analyzer - Swept SA 04:43:21 PM Sep 04, 2018 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.483500000 GHz PNO: Fast +>+ IFGain:Low Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr4 2.485 465 0 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.304 dBm 10 dB/div 1N I Center Freq 2.483500000 GHz 0.0 10.0 -18.51 di -20.0 Start Freq -30.0 2.453500000 GHz -40.0 -50.0 Stop Freq π/4DQPSK/HCH/Hop -60.0 2.513500000 GHz -7n r Center 2.48350 GHz Span 60.00 MHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (8001 pts) 6.000000 MHz <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE Freq Offset 0 Hz STATUS /ISG

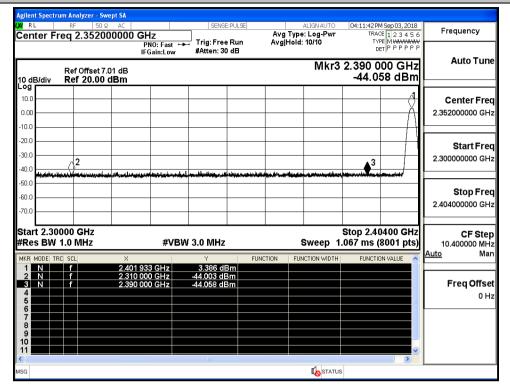
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA 04:32:02 PM Sep 03, 2018 TRACE 1 2 3 4 5 6 #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.357000000 GHz PNO: Fast ↔ IFGain:Low Trig: Free Run #Atten: 30 dB DET PPPP **Auto Tune** Mkr4 2.330 974 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.610 dBm 10 dB/div 10 (Center Freq 2.357000000 GHz 0.0 10.0 -18.66 HE -20.0 Start Freq -3n r 2.310000000 GHz -40.0 -50.0 Stop Freq -60.0 8DPSK/LCH/No Hop 2.404000000 GHz -7n r Start 2.31000 GHz Stop 2.40400 GHz **CF Step** 9.400000 MHz Sweep 9.067 ms (8001 pts) #Res BW 100 kHz #VBW 300 kHz Auto FUNCTION FUNCTION WIDTH 1.341 dBm -52.753 dBm -54.611 dBm -50.610 dBm Freq Offset 0 Hz STATUS kgilent Spectrum Analyzer - Swept SA 04:46:41 PM Sep 04, 2018 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.400000000 GHz PNO: Fast +++ IFGain:Low Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr4 2.389 312 5 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.529 dBm 10 dB/div 1N I Center Freq 2.400000000 GHz 0.0 jolgi Papitajota, reapitaj Papitajota, projekajota, projekajota, projekajotajota, prijekajota, prijekajota, pr 10.0 -20.0 Start Freq -30.0 2.370000000 GHz -40.0 -50.0 Stop Freq 8DPSK/LCH/Hop -60.0 2.430000000 GHz .7n r Center 2.40000 GHz Span 60.00 MHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (8001 pts) 6.000000 MHz Auto Man FUNCTION FUNCTION WIDTH FUNCTION VALUE Freq Offset 0 Hz STATUS /ISG

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIKX-FWIN232PLUS Report No.: LCS180823019AEA Agilent Spectrum Analyzer - Swept SA 28 PM Sep 03, 2018 TRACE 1 2 3 4 5 6 #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.489000000 GHz PNO: Fast ↔ IFGain:Low Trig: Free Run #Atten: 30 dB DET PPPP **Auto Tune** Mkr4 2.498 308 75 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.687 dBm 10 dB/div 10 (Center Freq 2.489000000 GHz 0.0 10.0 -18.47 di -20.0 Start Freq -30 2.478000000 GHz -40.0 -50.0 Stop Freq -60.0 8DPSK/HCH/No Hop 2.500000000 GHz -7n r Start 2.47800 GHz Stop 2.50000 GHz **CF Step** 2.200000 MHz Sweep 2.133 ms (8001 pts) #Res BW 100 kHz #VBW 300 kHz Auto FUNCTION Freq Offset 0 Hz STATUS kgilent Spectrum Analyzer - Swept SA 04:48:54 PM Sep 04, 2018 #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.483500000 GHz PNO: Fast +>+ IFGain:Low Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr4 2.492 155 0 GHz Ref Offset 7.01 dB Ref 20.00 dBm -50.257 dBm 10 dB/div Log 1N I Center Freq 2.483500000 GHz 0.0 10.0 -18.49 di -20. Start Freq -30.0 2.453500000 GHz -40.0 /√3 -50.0 Stop Freq 8DPSK/HCH/Hop -60.0 2.513500000 GHz -7n r Center 2.48350 GHz Span 60.00 MHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (8001 pts) 6.000000 MHz <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE Freq Offset 0 Hz STATUS

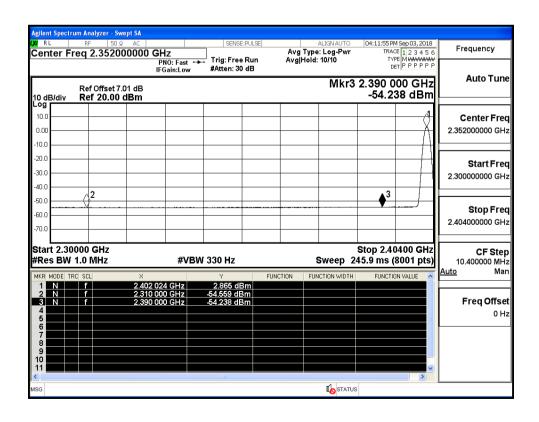
A.8 Restrict-band band-edge measurements

| Test Mode | Hopping | Freq. | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|--------------|---------|--------|----------------|------|------------------|---------------|----------|-------------------|---------|
| | Off | 2310.0 | -44.00 | 2.5 | 0 | 53.76 | PEAK | 74 | PASS |
| | Off | 2310.0 | -54.56 | 2.5 | 0 | 43.20 | AV | 54 | PASS |
| | Off | 2390.0 | -44.06 | 2.5 | 0 | 53.70 | PEAK | 74 | PASS |
| 0501 | Off | 2390.0 | -54.24 | 2.5 | 0 | 43.52 | AV | 54 | PASS |
| GFSK | Off | 2483.5 | -43.69 | 2.5 | 0 | 54.07 | PEAK | 74 | PASS |
| | Off | 2483.5 | -53.81 | 2.5 | 0 | 43.95 | AV | 54 | PASS |
| | Off | 2500.0 | -44.45 | 2.5 | 0 | 53.31 | PEAK | 74 | PASS |
| | Off | 2500.0 | -53.93 | 2.5 | 0 | 43.83 | AV | 54 | PASS |
| | Off | 2310.0 | -44.67 | 2.5 | 0 | 53.09 | PEAK | 74 | PASS |
| | Off | 2310.0 | -54.54 | 2.5 | 0 | 43.22 | AV | 54 | PASS |
| | Off | 2390.0 | -44.98 | 2.5 | 0 | 52.78 | PEAK | 74 | PASS |
| /4D0D0K | Off | 2390.0 | -54.33 | 2.5 | 0 | 43.43 | AV | 54 | PASS |
| π/4DQPSK | Off | 2483.5 | -44.56 | 2.5 | 0 | 53.20 | PEAK | 74 | PASS |
| | Off | 2483.5 | -53.71 | 2.5 | 0 | 44.05 | AV | 54 | PASS |
| | Off | 2500.0 | -44.81 | 2.5 | 0 | 52.95 | PEAK | 74 | PASS |
| | Off | 2500.0 | -53.95 | 2.5 | 0 | 43.81 | AV | 54 | PASS |
| | Off | 2310.0 | -43.40 | 2.5 | 0 | 54.36 | PEAK | 74 | PASS |
| | Off | 2310.0 | -54.67 | 2.5 | 0 | 43.09 | AV | 54 | PASS |
| | Off | 2390.0 | -43.94 | 2.5 | 0 | 53.82 | PEAK | 74 | PASS |
| | Off | 2390.0 | -54.33 | 2.5 | 0 | 43.43 | AV | 54 | PASS |
| 8DPSK | Off | 2483.5 | -43.73 | 2.5 | 0 | 54.03 | PEAK | 74 | PASS |
| | Off | 2483.5 | -53.98 | 2.5 | 0 | 43.78 | AV | 54 | PASS |
| | Off | 2500.0 | -44.78 | 2.5 | 0 | 52.98 | PEAK | 74 | PASS |
| | Off | 2500.0 | -53.93 | 2.5 | 0 | 43.83 | AV | 54 | PASS |

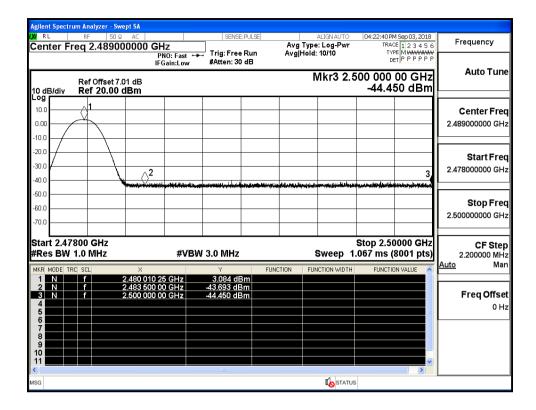




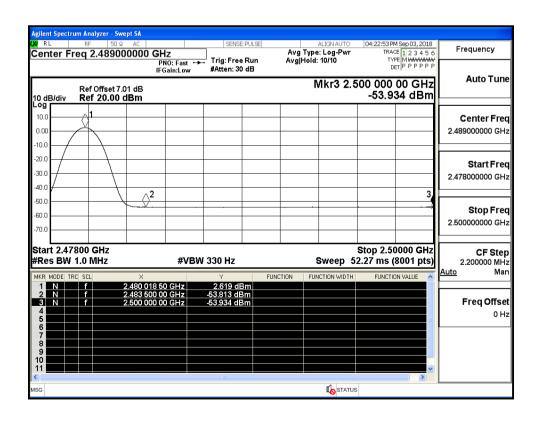
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



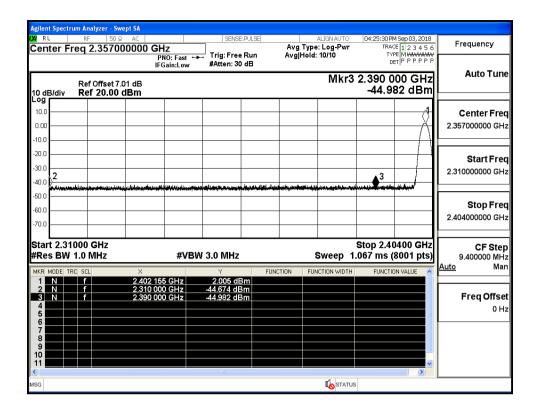
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



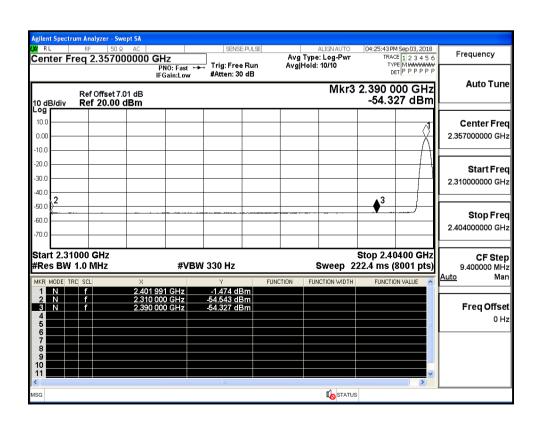
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



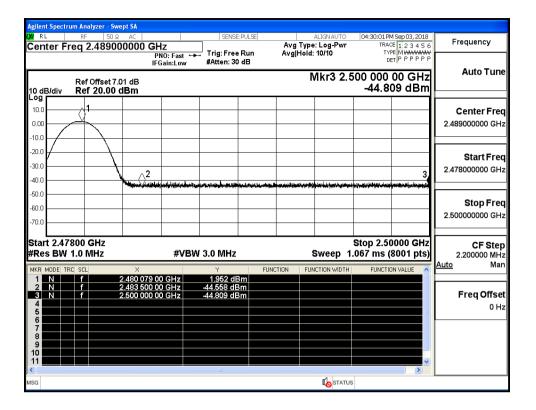
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



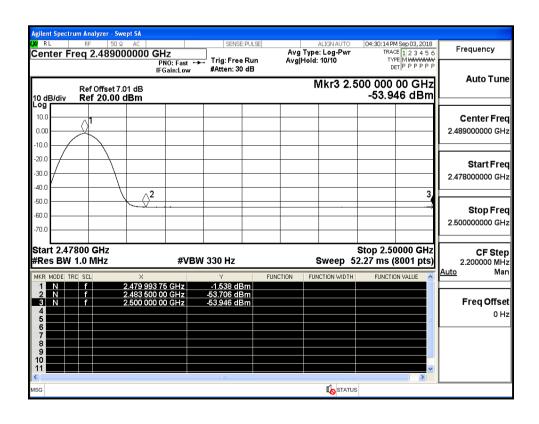
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



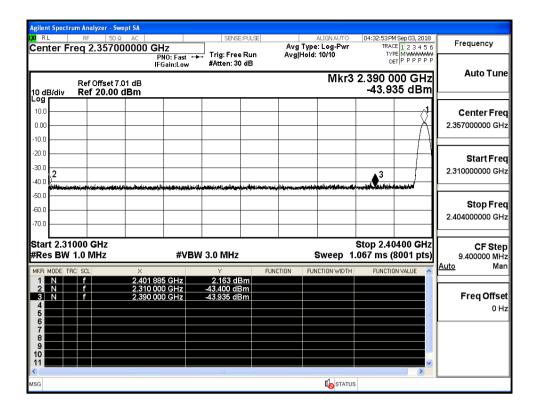
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



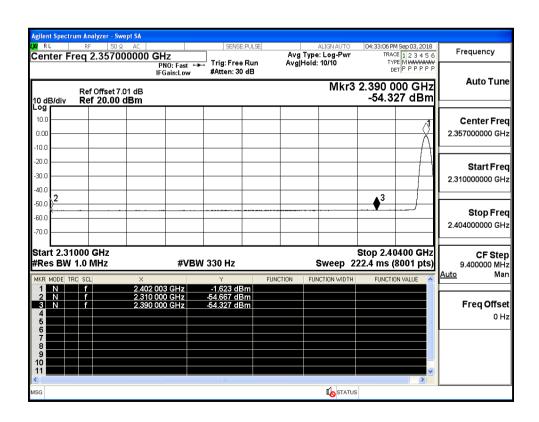
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



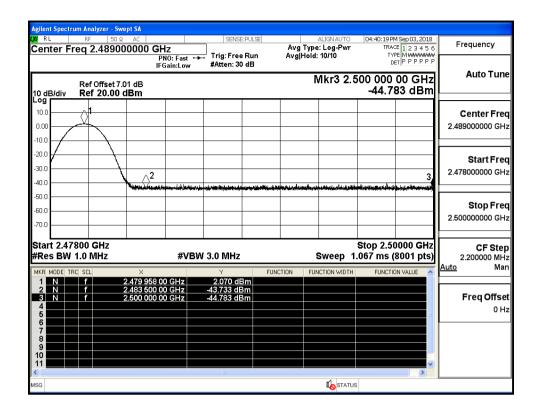
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)

