

| | | _ | | | | _ | | | um Analyzer - Swep | |
|-----------------------------------|--|--------|------------|---------|---------|--------------------------|------------------------|-------------|-------------------------------|-----------|
| Frequency | 8 PM May 24, 2024 RACE 1 2 3 4 5 6 TYPE A WWWWWW | TRA | ALIGN AUTO | #Avg Ty | NSE:INT | 20.02 | Ηz | 00000 GI | RF 50 Ω eq 1.91500 | Center Fr |
| Auto Tune | 004 GHz 955 dBm | | Mkr1 | | | A Trig: Fre #Atten: 2 | NO: Wide ↔ Gain:Low | IF .2 dB | Ref Offset 27. Ref 27.20 d | 10 dB/div |
| Center Freq 1.915000000 GHz | | | | | | | | | | 17.2 |
| Start Fred 1.913000000 GHz | | | | | | | | | | -2.80 |
| Stop Freq 1.917000000 GHz | -13.00 dBm | | | | 1 | And a second second | | | | -12.8 |
| CF Step 400.000 kH Auto Mar | RMS | | | | A A | | | | | -32.8 |
| Freq Offse 0 H: | | | | | | | | | | -52.8 |
| | 4.000 MHz s (1001 pts) | Span 4 | #Sweep | | | 470 kHz | #\/B\A | | 15000 GHz | |
| | s (100 i pts) | | #Sweep | | | 47 U KHZ | #VBV | | JU KHZ | #Res BW |

LTE B25(2)_15 M_Band Edge_High_QPSK_1RB



| RL RF Center Freq 1. Center Freq 1. Ref 0 10 dB/div Ref 2 7.20 -2.80 -12.8 -22.8 | 50 Ω AC 915000000 ffset 27.2 dB 27.20 dBm | GHz PNO: Wide ↔ | | | #Avg Typ | | TRAC TYL D | M May 24, 2024 E 12 3 4 5 6 A A A A A A A D12 GHz 59 dBm | с | equency Auto Tune enter Frec 000000 GH2 |
|--|--|--------------------|------------------------|------------------|--|---|------------------|--|-------------|--|
| 10 dB/div Ref 2 17.2 7.20 -2.80 | ffset 27.2 dB 27.20 dBm | | | | | Mkr1 | DI | | с | enter Fred |
| -og 17.2 7.20 2.80 12.8 | | | | | | | | | | |
| 12.80 | | | | | _ | | | | | |
| | | | | | | | | | 1.913 | Start Fre |
| | | | | 1 | | | | -13.00 dBm) | 1.917 | Stop Fre |
| 42.8 | | | ملودينورياريم مراوي | Nerger Stangtory | Jong and a second s | 50° 100- 100- 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 | | RMS | <u>Auto</u> | CF Ste 400.000 kH Ma |
| 52.8 | | | | | | | | | F | req Offs 0 H |
| Center 1.91500 | 0 GHz | #)/(B)4 | 470 kHz | | | #Swoon | Span 4 | .000 MHz (1001 pts) | | |
| SG | 12 | #VDV | 7470 KHZ | | | #Sweep | | roor prs) | | |

LTE B25(2)_15 M_Band Edge_High_QPSK_FullRB



| | rum Analyzer - Chan | | - | _ | _ | _ | | | |
|---------------|--------------------------|----------------------------|-----|---|-------------|-----------------------------------|-----------|---|------------------------------|
| Center Fre | RF 50 Ω eq 1.91650 | AC 0000 GHz #IFGain: | Low | SENSE:INT Center Freq: 1. Trig: Free Run #Atten: 20 dB | 916500000 G | ALIGN AUTO Hz Hold: 300/300 | Radio Dev | | Frequency |
| 10 dB/div | Ref Offset: Ref 30.00 | | _ | | | | | | |
| 20.0 | | | | | | | | | Center Fre 1.916500000 GH |
| 0.00 -10.0 | | | | | | | | | |
| -20.0 | | | | | | | | | |
| -40.0 | ~~~~~ | ~~~~~~ | | | ~~~~~ | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| -60.0 | 47.04- | | | | | | | on A Ballin | CF Ste 400.000 kH |
| Res BW 3 | | | | VBW 3 9 | 90 kHz | | | an 4 MHz p 3.2 ms | <u>Auto</u> Ma |
| Chann | Channel Power | | | | wer Spe | ctral Dens | ity | | Freq Offse 0 H |
| -2 | 9.61 dE | 3m / 1 MI | Ηz | -89.61 dBm /Hz | | | | | |
| | | | | | | | | | |
| MSG | | | | | | STATUS | S | | |

LTE B25(2)_15 M_Extended Band Edge_High_QPSK_FullRB



| | | | 1 | n Analyzer - Swept SA |
|---|---|----------------|-----------------------------------|---|
| Frequency | 09:25:06 PM May 24, 2024 TRACE 1 2 3 4 5 5 TYPE A WWWW DET A A A A A A A | #Avg Type: RMS | . Trig: Free Run #Atten: 20 dB | RF 50 Ω AC q 1.850000000 GHz PNO: Wide ↔ IFGain:Low FGain:Low |
| Auto Tune | 1.850 000 GHz -32.120 dBm | Mkr1 | WAREN. 20 ab | Ref Offset 27.2 dB Ref 27.20 dBm |
| Center Fred 1.85000000 GH; | | | | |
| Start Fred 1.848000000 GH: | BMS | | | |
| Stop Free 1.852000000 GH | -13.00 dBm | | | |
| CF Stej 400.000 kH <u>Auto</u> Ma | | | 1. | |
| Freq Offse 0 H | | | | |
| | Span 4.000 MHz 1.000 s (1001 pts) | #Sweep | 620 kHz | 0000 GHz 0 kHz #VBM |
| | 1.000 S (1001 pts) | STATUS | | #VDV |

LTE B25(2)_20 M_Band Edge_Low_QPSK_1RB



| | | | | | | alyzer - Swept SA | |
|---|--|------------|---------------------|---------------------------------|--------------|--|----------------------|
| 2 3 4 5 6 A WWWWW | 09:24:32 PM May 24, 2024 TRACE 1 2 3 4 5 TYPE A WWWWW DET A A A A A A | ALIGN AUTO | #Avg | Trig: Free Run #Atten: 20 dB | PNO: Wide -> | 50 Ω AC .850000000 | nter Fre |
| 0 GHz Auto Tur 6 dBm | 1.850 000 GHz -31.516 dBm | Mkr1 | | #Atten: 20 dB | IFGain:Low | Offset 27.2 dB 27.20 dBm | lB/div |
| Center Fre 1.850000000 GH | | | | | | | 2 |
| RMS Start Fre | RMS | | | | | |) |
| -13 00 dBm 5 top Fre 1.852000000 GH | -13.00 dBm | | | | | | 3 |
| CF Ste 400.000 ki <u>Auto</u> M | | | - Carlo Carlo Carlo | 1 | | ะรุ่าะสู้แล้ะเริ่มกูลเรื่องสาวสิ่งเสียง - | 3 |
| Freq Offs 01 | | | | | | | 3 |
| 00 MHz | Span 4.000 MHz 1.000 s (1001 pts) | #Sweep | | / 620 kHz | #\/B\/ | | nter 1.85 es BW 2 |
| | | STATUS | | | "OEN | | |

LTE B25(2)_20 M_Band Edge_Low_QPSK_FullRB



| | rum Analyzer - Char | | | | | | | | | |
|---------------------|---|----------------------|-------|--|---------|------------|--|----------|------------------------------------|--|
| Center Fr | RF 50 Ω eq 1.84850 | 00000 GHz #IFGain | n:Low | SENSE:INT ALIGN AUTO Center Freq: 1.848500000 GHz Trig: Freq Run Avg Hold: 300/300 #Atten: 20 dB Avg Hold: 300/300 Avg Hold: 300/300 | | | 09:24:41 PM May 24, 2024 Radio Std: None Radio Device: BTS | | Frequency | |
| 10 dB/div Log | Ref Offset Ref 30.0 | | | | | | | | | |
| 20.0 10.0 | | | | | | | | | Center Freq 1.848500000 GHz | |
| 0.00 -10.0 | | | | | | | | | | |
| -20.0 -30.0 | | | | | | | | ~~~~ | | |
| -40.0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~ | | | | | |
| -60.0 Center 1.3 | 849 GHz | | | | | | Sp | an 4 MHz | CF Step 400.000 kHz Auto Man | |
| Res BW 3 | es BW 39 kHz | | | VBW 39 | 0 kHz | | Swee | p 3.2 ms | Hate Mari | |
| Chann | Channel Power | | | | ver Spe | ctral Dens | sity | | Freq Offset 0 Hz | |
| -2 | 8.13 dE | 3m / 1 M | IHz | | -88.1 | l3 dBm | /Hz | | | |
| MSG | | | | | | STATU | S | | | |

LTE B25(2)_20 M_Extended Band Edge_Low_QPSK_FullRB



| Agilent Spectrum Analyzer - Swept SA | | | | | - d × |
|--|----------------------------|---------------|------------------------------|---|--|
| RL RF 50 Ω AC Center Freq 1.915000000 | GHz | SENSE:INT | ALIGN AUTO #Avg Type: RMS | 09:30:07 PM May 24, 2024 TRACE 1 2 3 4 5 0 TYPE A WWWW DET A A A A A A A | Frequency |
| Ref Offset 27.2 dB | PNO: Wide ++ IFGain:Low | #Atten: 20 dB | Mkr1 | 1.915 000 GHz -32.147 dBm | Auto Tune |
| 17.2 | | | | | Center Fred 1.915000000 GH; |
| 2.80 | | | | | Start Free 1.913000000 GH |
| .12.8 | | | | -13.00 dBm | Stop Free 1.917000000 GH |
| 42.8 | | 1 | | RMS | CF Ste 400.000 kH <u>Auto</u> Ma |
| 52.8 | | | | | Freq Offse 0 H |
| 62.8 Center 1.915000 GHz #Res BW 200 kHz | #\/B\A | 620 kHz | #Sween | Span 4.000 MHz 1.000 s (1001 pts) | |
| INGS DW 200 KHZ | | | STATUS | | |

LTE B25(2)_20 M_Band Edge_High_QPSK_1RB



| | ctrum Analyzer - Swept SA | | | | | - F |
|-----------|-------------------------------------|--|----------------|----------------|---|--|
| Center F | RF 50 Ω AC Freq 1.91500000 | PNO: Wide -> | Trig: Free Run | #Avg Type: RMS | 09:29:30 PM May 24, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWWW DET A A A A A A | Frequency |
| 10 dB/div | Ref Offset 27.2 dB Ref 27.20 dBm | IFGain:Low | #Atten: 20 dB | Mkr1 | 1.915 012 GHz -33.153 dBm | Auto Tune |
| 17.2 | | | | | | Center Fre 1.915000000 GH |
| 2.80 | | | | | | Start Fre 1.913000000 G⊦ |
| 22.8 | | | | | -13.00 dBm | Stop Fre 1.917000000 GF |
| 12.8 | | The second secon | 1 | | RMS | CF Ste 400.000 kH <u>Auto</u> Ma |
| 2.8 | | | | | | Freq Offs 0 F |
| | 915000 GHz 200 kHz | #\/B\A | / 620 kHz | #Sween | Span 4.000 MHz 1.000 s (1001 pts) | |
| SG SG | 200 1112 | # V D V | -020 KH2 | STATUS | | |

LTE B25(2)_20 M_Band Edge_High_QPSK_FullRB



| | rum Analyzer - Cha | | _ | | | | | |
|------------------------|---|-----------|--------|---|------------|---------------------|------------------------|--------------------------------|
| Center Fro | RF 50 Ω eq 1.91650 | 00000 GHz | in:Low | SENSE:INT Center Freq: 1.916500 Trig: Free Run #Atten: 20 dB | ALIGN AUTO | Radio Devi | | Frequency |
| 10 dB/div | Ref Offset Ref 30.0 | | | | | | | |
| 20.0 | | | | | | | | Center Freq 1.916500000 GHz |
| -10.0 | | | | | | | | |
| -20.0 | | | | | | | | |
| -40.0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | ······ | ~~~~~ | | |
| -60.0 | | | | | | | | CF Step 400.000 kHz |
| Center 1.9 Res BW 3 | .917 GHz 39 kHz VBW 390 kHz | | | | | | an 4 MHz p 3.2 ms | <u>Auto</u> Man |
| Chann | el Power | | | Power | | Freq Offset 0 Hz | | |
| -3 | 1.57 dl | Bm / 1 M | ſHz | -9 | | | | |
| | | | | | | | | |
| MSG | | | | | STATU | IS | | |

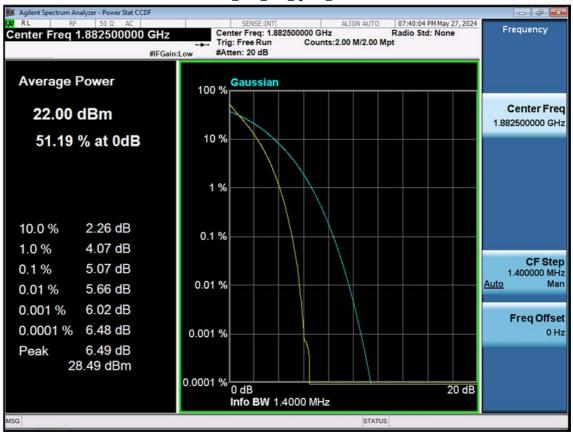
LTE B25(2)_20 M_Extended Band Edge_High_QPSK_FullRB



Report No. HCT-RF-2407-FC025

11. TEST PLOTS(Sub 5 Ant)

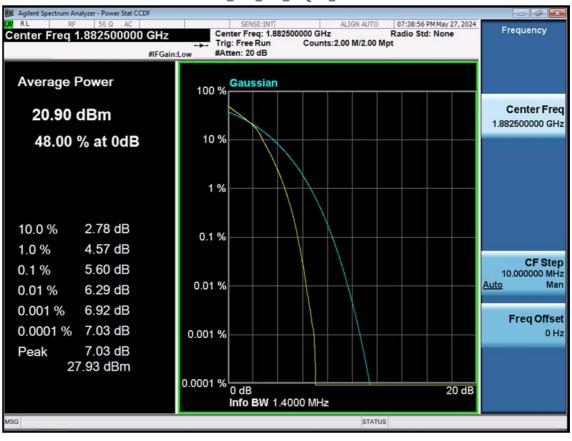




1.4M_PAR_Mid_QPSK_FullRB



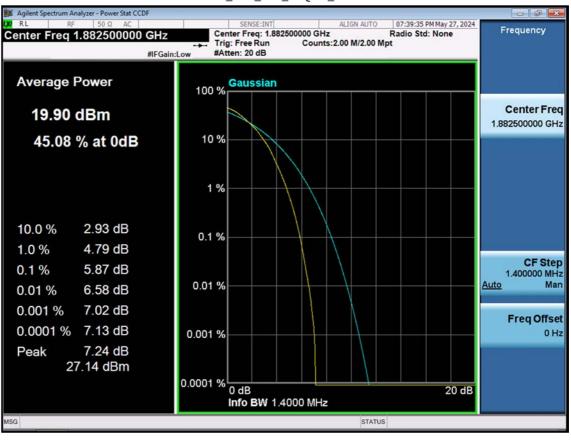




1.4M_PAR_Mid_16QAM_FullRB



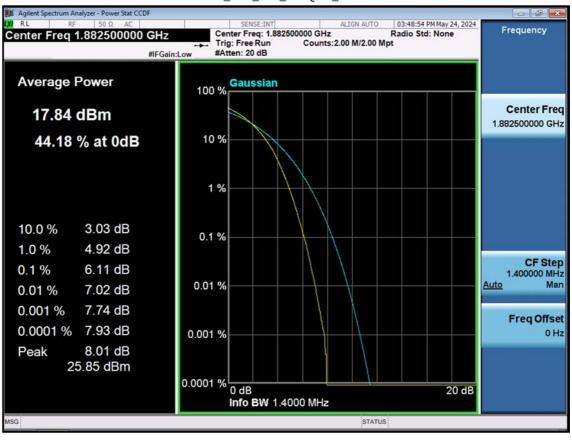




1.4M_PAR_Mid_64QAM_FullRB



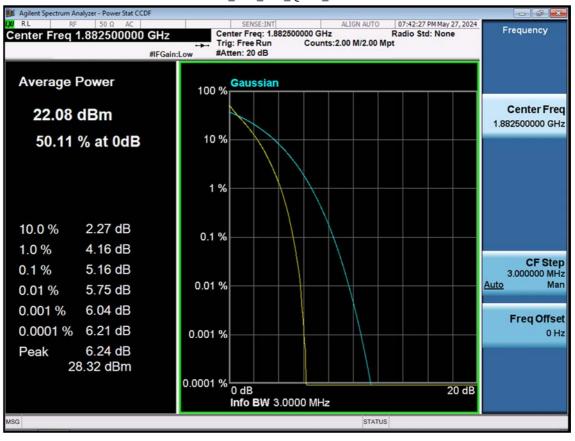




1.4M_PAR_Mid_256QAM_FullRB



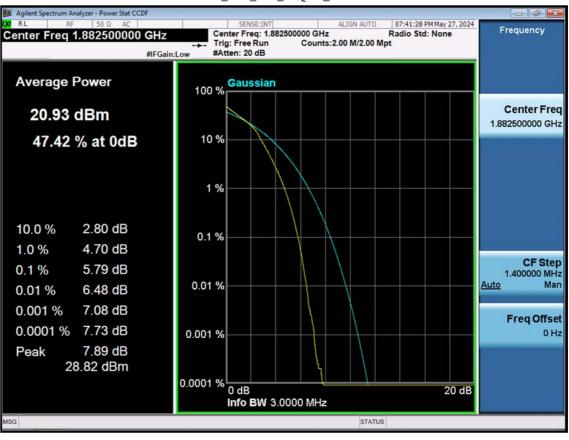




3 M_PAR_Mid_QPSK_FullRB



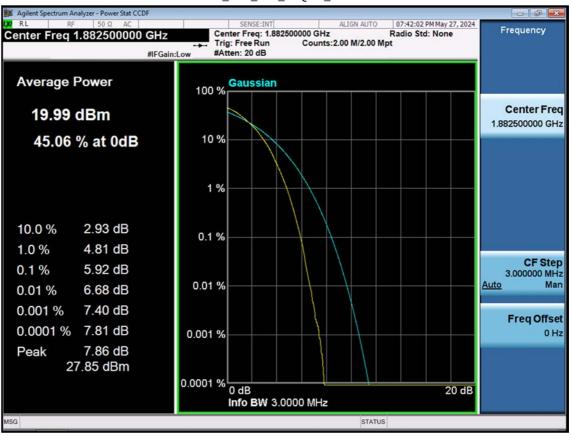




3 M_PAR_Mid_16QAM_FullRB



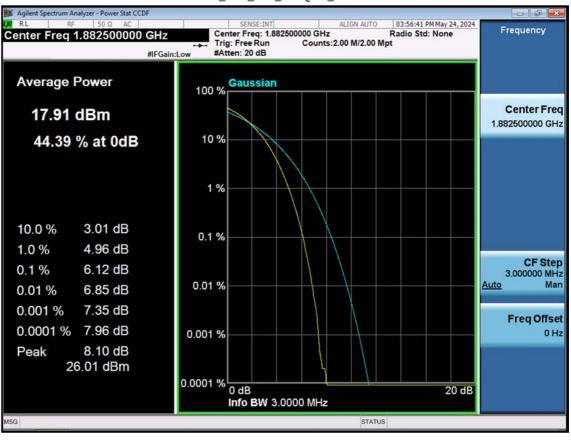




3 M_PAR_Mid_64QAM_FullRB



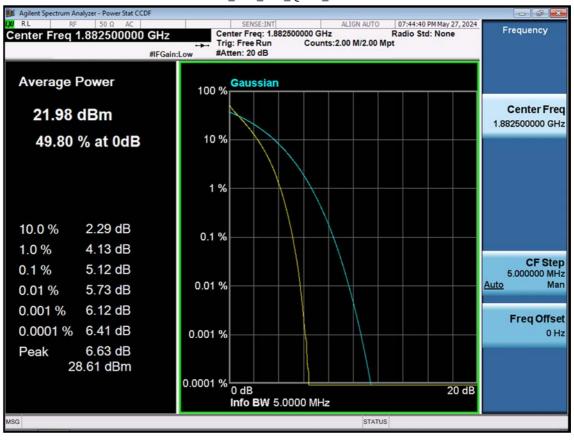




3 M_PAR_Mid_256QAM_FullRB



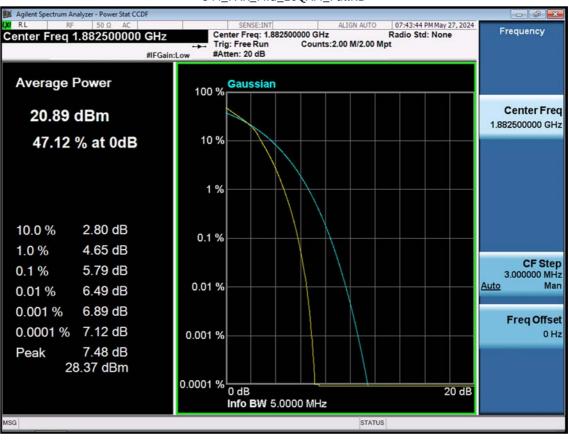




5 M_PAR_Mid_QPSK_FullRB



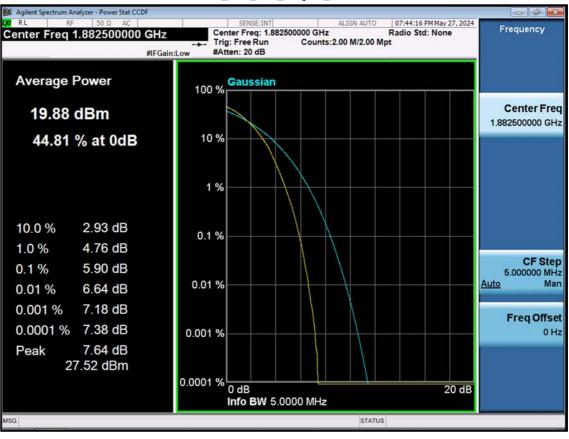




5 M_PAR_Mid_16QAM_FullRB



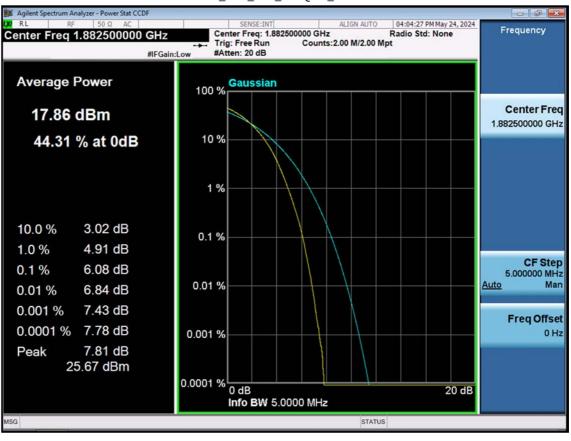




5 M_PAR_Mid_64QAM_FullRB







5 M_PAR_Mid_256QAM_FullRB





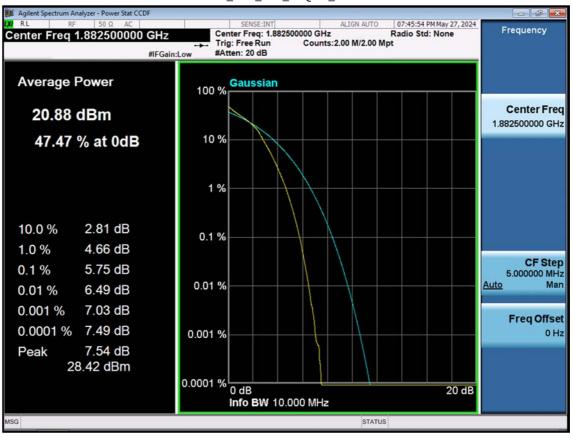


10 M_PAR_Mid_QPSK_FullRB

F-TP22-03 (Rev. 06)



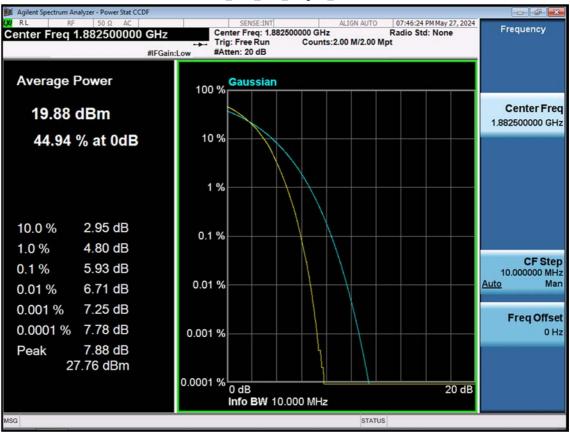




10 M_PAR_Mid_16QAM_FullRB



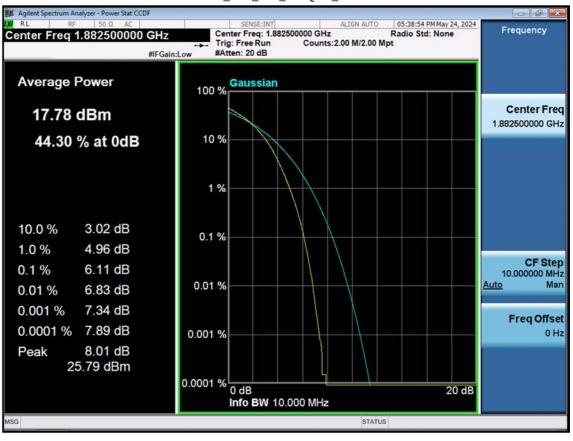




10 M_PAR_Mid_64QAM_FullRB



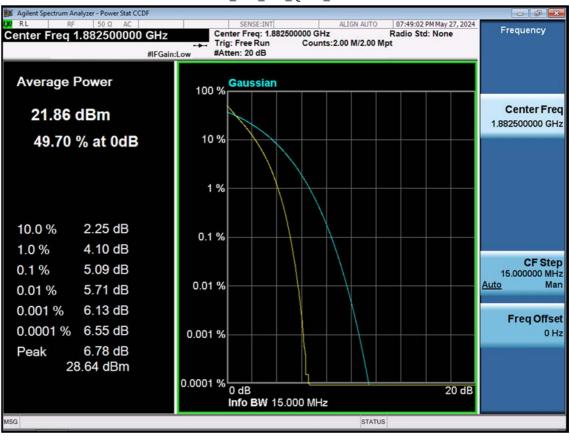




10 M_PAR_Mid_256QAM_FullRB



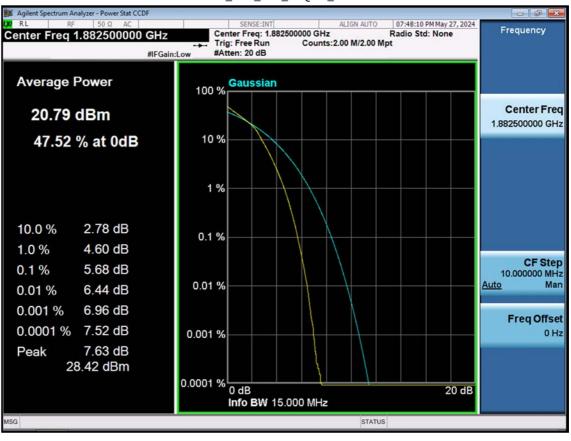




15 M_PAR_Mid_QPSK_FullRB



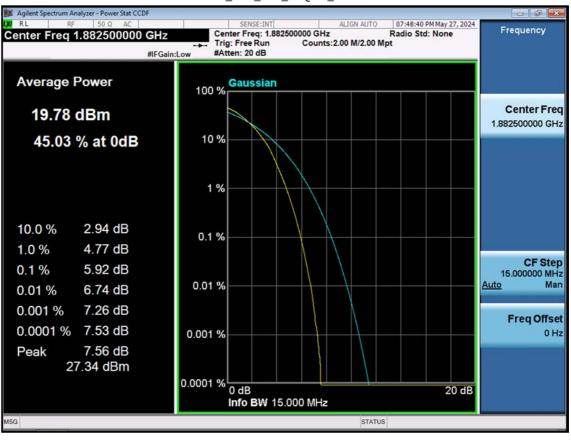




15 M_PAR_Mid_16QAM_FullRB



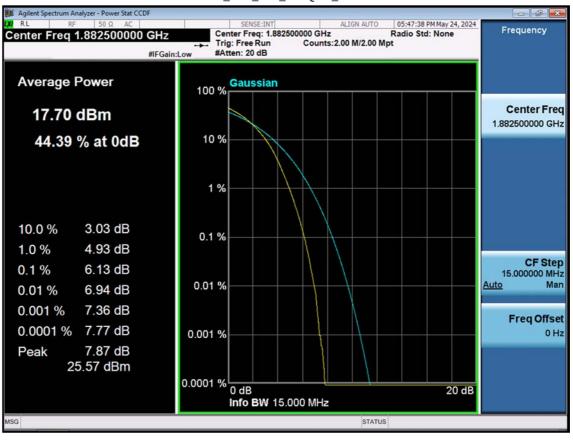




15 M_PAR_Mid_64QAM_FullRB



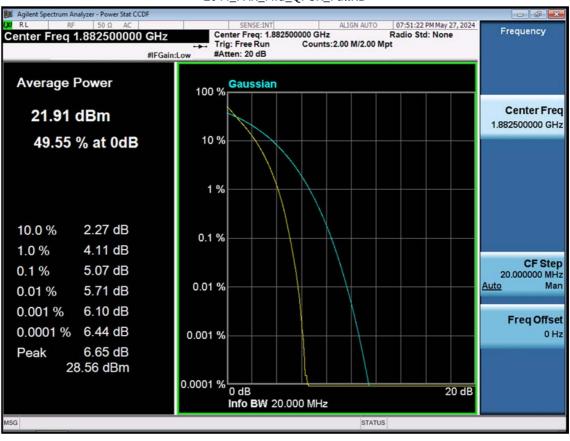




15 M_PAR_Mid_256QAM_FullRB



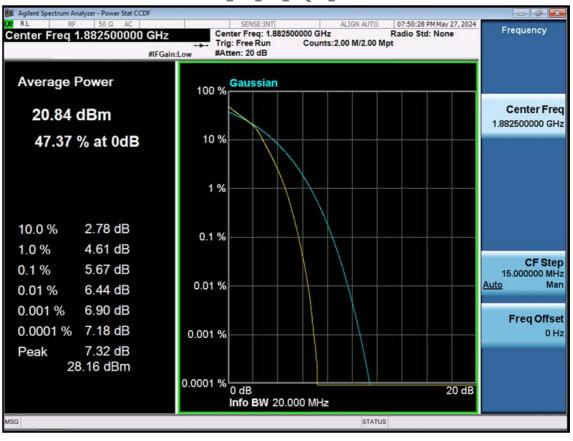




20 M_PAR_Mid_QPSK_FullRB





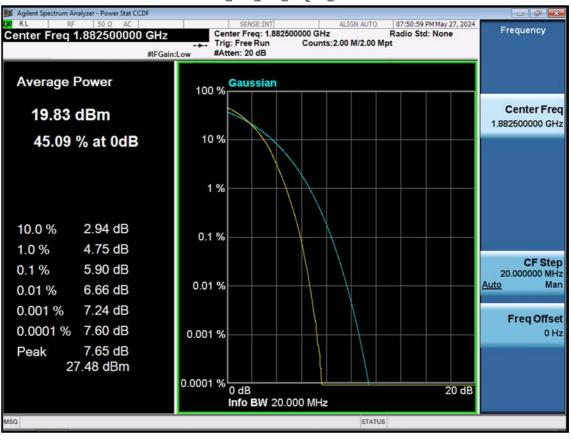


20 M_PAR_Mid_16QAM_FullRB

F-TP22-03 (Rev. 06)



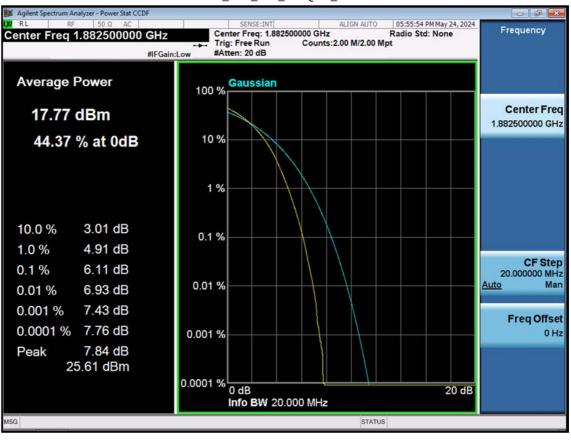




20 M_PAR_Mid_64QAM_FullRB







20 M_PAR_Mid_256QAM_FullRB





| RL RF 50 Ω Center Freq 1.882500 PASS | | Center Trig: F | SENSE:INT Freq: 1.88250 Free Run : 20 dB | | ALIGN AUTO | 07:39:52 F Radio Std | | Frequency |
|--|---------------------------------|---|---|-------|------------|-------------------------|-----------------|-------------------------------|
| Ref Offset 27 10 dB/div Ref 40.00 | 7.2 dB | | | | | | | |
| 30.0 | | | | | | | | Center Free 1.882500000 GH |
| 10.0 | | m.n.~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | -umm | ····· | | | | |
| 10.0 20.0 mm mm mm | warne and a | | | | John Mary | m | nharrow. | |
| 30.0 | | | | | | | | |
| 50.0 | | | | | | | | CF Ster 280.000 kH |
| Center 1.883 GHz Res BW 27 kHz | | #\ | #VBW 110 kHz | | | Spa Sweep | <u>Auto</u> Mar | |
| Occupied Bandw | Occupied Bandwidth 1.0975 MH | | Total Power | | | ð dBm | | Freq Offse 0 Ha |
| Transmit Freq Erro | | | OBW P | ower | 99 | 9.00 % | | |
| x dB Bandwidth | 1.354 M | MHz | x dB | | -26. | 00 dB | | |
| ISG | | | | | STATU | S | | |

1.4M_OBW_Mid_QPSK_FullRB





| Agilent Spectrum Analyzer - Occupied | | CENCE ANT | | 07-29-42 04 49- 27-20 | |
|--------------------------------------|----------------------------------|--|--|--|-----------------------------------|
| Center Freq 1.8825000 | | SENSE:INT Center Freq: 1.88250 Trig: Free Run #Atten: 20 dB | ALIGN AUTO 0000 GHz Avg Hold: 500/500 | 07:38:42 PM May 27, 20 Radio Std: None Radio Device: BTS | Frequency |
| Ref Offset 27.2 | | | | | _ |
| 20.0 | | | | | Center Free 1.882500000 GH |
| 10.0 | - marine | mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | m m | | |
| 0.00 10.0 20.0 | - And | | - North Contraction of the second sec | mmmmm | |
| | | | | | |
| center 1.883 GHz | | | | Span 2.8 Mł | CF Ste 280.000 kH Z Auto Ma |
| tes BW 27 kHz | | #VBW 110 k | Hz | Sweep 3.667 n | |
| | Occupied Bandwidth 1.1044 MHz | | ower 29 | .3 dBm | Freq Offse 0 H |
| Transmit Freq Error | 2.909 | kHz OBW Po | ower 9 | 99.00 % | |
| x dB Bandwidth | 1.349 M | MHz x dB | -20 | 6.00 dB | |
| SG | | | STAT | rus | |

1.4M_OBW_Mid_16QAM_FullRB





| Je Agilent Spectrum Analyzer - Occupied BW | | | | | _ | | |
|--|--------------------|---|-------|------------|---------------------------------------|-----------------------|------------------------------------|
| RL RF 50 Ω AC Center Freq 1.882500000 PASS Ref Offset 27.2 dB 10 dB/div Ref 40.00 dBm | #IFGain:Low | SENSE:INT Center Freq: 1.8824 Trig: Free Run #Atten: 20 dB | | ALIGN AUTO | 07:39:13 P Radio Std: Radio Dev | | Frequency |
| 20.0 | | | | | | | Center Freq 1.882500000 GHz |
| 10.0 0.00 -10.0 -20. | | #VBW 110 | | | Spar | 1 2.8 MHz 3.667 ms | CF Step 280.000 kHz Auto Man |
| Occupied Bandwidth 1.1 | 080 MF | Total I | Power | 28.6 | dBm | | Freq Offset 0 Hz |
| Transmit Freq Error x dB Bandwidth | 1.624 k 1.309 M | Hz OBW I | Power | | .00 % 00 dB | | |
| MSG | | | | STATUS | | | |

1.4M_OBW_Mid_64QAM_FullRB





| Agilent Spectrum Analyzer - Occupie | | | | | | | - 6 |
|---|------------------------------|---|-------|---------------------------------------|---|-----------------------|--------------------------------|
| X RL RF 50 Ω / Center Freq 1.8825000 PASS / | | SENSE:INT Center Freq: 1.88 Trig: Free Run #Atten: 20 dB | | ALIGN AUTO | Radio Std Radio Dev | | Frequency |
| Ref Offset 27 10 dB/div Ref 40.00 c | | | | . | | | |
| 30.0 | | | | | | | Center Freq 1.882500000 GHz |
| 10.0 | mm | mm | h | | | | |
| -10.0 | North | | | A A A A A A A A A A A A A A A A A A A | | | |
| -20.0 adhress monometers | | | | ~~~ ~~~ | han and a second and a second s | many | |
| -50.0 | | | | | | | CF Step 280.000 kHz |
| Center 1.883 GHz Res BW 27 kHz | | #VBW 11 | 0 kHz | | | n 2.8 MHz 3.667 ms | <u>Auto</u> Man |
| Occupied Bandw | ^{idth} 1.0953 MI | | Power | 26.5 | ō dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 846 | Hz OBW | Power | 99 | 0.00 % | | |
| x dB Bandwidth | 1.331 N | 1Hz x dB | | -26. | 00 dB | | |
| MSG | | | | STATU | S | | |

1.4M_OBW_Mid_256QAM_FullRB





| Mailent Spectrum Analyzer - Occupied B | w | | | | | | |
|---|------------------------|--|-------|---------|-------------|----------------------|---|
| RL RF 50 Ω AC Center Freq 1.88250000 PASS PASS | 00 GHz #IFGain:Low | SENSE:INT Center Freq: 1.882 Trig: Free Run #Atten: 20 dB | | 500/500 | Radio Std: | | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dE | | | | -,,- | | | |
| 20.0 | | | | | | | Center Fred 1.882500000 GHz |
| 0.00 | A | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | maan | | | | |
| -10.0 | 2 | | | Mm | ᡝ᠇ᡘ᠁ᠬ | Mmm | |
| -30.0 | | | | | | | |
| 50.0 Center 1.883 GHz #Res BW 62 kHz | | #VBW 240 | kHz | | Sp Sweep | an 6 MHz 1.533 ms | CF Step 600.000 kHz <u>Auto</u> Mar |
| Occupied Bandwic | ith 7206 M I | Total | Power | 30.6 | | | Freq Offset 0 Hz |
| Transmit Freq Error | 4.285 | | Power | 99.0 | 00 % | | |
| x dB Bandwidth | 3.106 N | MHz x dB | | -26.0 | 0 dB | | |
| NSG | | | | STATUS | | | |

3 M_OBW_Mid_QPSK_FullRB





| Agilent Spectrum Analyzer - Occupied Agilent Spectrum Analyzer - Occupied Agilent Spectrum Analyzer - Οccupied Agilent Spectrum Analyzer - Οccupied | | CENCE INT | | | 07.41.40 | | |
|--|--|--|-------------------------|--|-----------|-----------|---------------------------------|
| Center Freq 1.8825000 | | Center Freq: 1.88 Trig: Free Run #Atten: 20 dB | 2500000 GHz Avg Hold | ALIGN AUTO I: 500/500 | Radio Std | | Frequency |
| Ref Offset 27. 10 dB/div Ref 40.00 d | | | | | | | |
| 30.0 20.0 | | | | | | | Center Free 1.882500000 GH |
| 0.00 | 1 de la compañía de l | mon | mm | M | | | |
| 10.0 20.0 mm & mm | | | | - ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | un m | man | |
| 40.0 | | | | | | | |
| center 1.883 GHz | | | | | | oan 6 MHz | CF Ste 600.000 kH Auto Ma |
| Res BW 62 kHz | | #VBW 24 | | | | 1.533 ms | |
| Occupied Bandwi | dth 2.7308 M | | l Power | 29. | 6 dBm | | Freq Offse 0 H |
| Transmit Freq Error | 11.899 | kHz OBW | Power | 9 | 9.00 % | | |
| x dB Bandwidth | 3.109 | MHz x dB | | -26 | .00 dB | | |
| ISG | | | | STATU | JS | | |

3 M_OBW_Mid_16QAM_FullRB





| Center Freq 1.8825000 PASS | | . Trig: I | SENSE:INT r Freq: 1.88250 Free Run h: 20 dB | | ALIGN AUTO | 07:41:44 Radio Sto Radio Der | | Frequency |
|---|-----------------------------|-----------|--|------|------------|------------------------------------|-----------------------|-------------------------------|
| Ref Offset 27. 10 dB/div Ref 40.00 d | | | | | | | | |
| 30.0 20.0 | | | | | | | | Center Free 1.882500000 GH |
| 10.0 | franktin | nm | | mm | m | | | |
| 0.00 | <i>Å</i> | | | | - Charles | Vi. 0 | | |
| 0.0 | | | | | | mante | and the second | |
| 0.0 | | | | | | | | CF Ste |
| Center 1.883 GHz Res BW 62 kHz | | # | VBW 2401 | kHz | | Sp Sweep | oan 6 MHz 1.533 ms | 600.000 kH <u>Auto</u> Ma |
| Occupied Bandwi | ^{dth} 2.7095 MI | 47 | Total P | ower | 28. | 7 dBm | | Freq Offse 0 H |
| Transmit Freq Error | | | OBW P | ower | 9 | 9.00 % | | |
| x dB Bandwidth | 3.069 N | IHz | x dB | | -26 | .00 dB | | |
| SG | | | | | STAT | JS | | |

3 M_OBW_Mid_64QAM_FullRB





| Agilent Spectrum Analyzer - Occupied RL RF 50 Ω A0 | | 5 | ENSE:INT | | ALIGN AUTO | 03:56:23 | PM May 24, 2024 | |
|--|-------------------------------------|------------|-------------------------|--------|------------|--|-----------------------|------------------------------|
| Center Freq 1.8825000 | | Center F | Freq: 1.88250 ee Run | | 1: 500/500 | Radio Sto | | Frequency |
| Ref Offset 27.2 0 dB/div Ref 40.00 dl | | | | | | | | |
| 20.0 | | | | | | | | Center Fre 1.882500000 GH |
| 0.0 | formanna | | man | un Ann | m h | | | |
| 0.0. 0.0 | x | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | man | |
| 0.0 | | | | | | | | CF Ste |
| enter 1.883 GHz Res BW 62 kHz | | #V | BW 2401 | (Hz | | SI Sweep | oan 6 MHz 1.533 ms | 600.000 kH |
| Occupied Bandwi | ^{dth} 2.7225 M I | Hz | Total P | ower | 26. | 5 dBm | | Freq Offso 0 ⊦ |
| Transmit Freq Error | 11.291 | kHz | OBW P | ower | 9 | 9.00 % | | |
| x dB Bandwidth | 3.111 M | /Hz | x dB | | -26 | .00 dB | | |
| 5G | | | | | STATL | JS | | |

3 M_OBW_Mid_256QAM_FullRB





| Magilent Spectrum Analyzer - Occupied BV | v | | | | anna i thea | |
|--|---------------------------|--|---|-------------------|-------------|-------------------------------------|
| RL RF 50 Ω AC Center Freq 1.88250000 PASS AC | ₩IFGain:Low | SENSE:INT Center Freq: 1.88250 Trig: Free Run #Atten: 20 dB | ALIGN A 00000 GHz Avg Hold: 500/5 | Radio Std: I | | Frequency |
| Ref Offset 27.2 c 10 dB/div Ref 40.00 dB | | | | | | l |
| 20.0 | | | | | | Center Freq 1.882500000 GHz |
| 0.00 | A | harmon | mann | | | |
| -10.0 -20.0 | / | | | Why www. | mm | |
| -30.0 | | | | | | |
| -50.0 Center 1.883 GHz | | | | Span | 10 MHz A | CF Step 1.000000 MHz Auto Man |
| #Res BW 100 kHz | | #VBW 3901 | kHz | | ep 1 ms | <u>kuto</u> iwan |
| Occupied Bandwid 4 | th .5411 MI | Total P HZ | ower | 30.5 d B m | | Freq Offset 0 Hz |
| Transmit Freq Error | 17.625 | KHZ OBW P | ower | 99.00 % | | |
| x dB Bandwidth | 5.574 N | IHz x dB | | -26.00 dB | | |
| MSG | | | | STATUS | | |

5 M_OBW_Mid_QPSK_FullRB





| Mailent Spectrum Analyzer - Occupied BV | V | I conversion | | | | | |
|---|------------------|---|----------|--------------|------------------------|---------------------|---------------------------------|
| KI RF 50 Ω AC Center Freq 1.88250000 PASS Ref Offset 27.2 c | + #IFGain:Low | Center Freq: 1.882 Trig: Free Run #Atten: 20 dB | | ALIGN AUTO | Radio Std Radio Dev | | Frequency |
| 10 dB/div Ref 40.00 dB | | | | | | | |
| 20.0 | | | | | | | Center Freq 1.882500000 GHz |
| 10.0 | minim | mmmm | www.loom | m | | | |
| 0.00 | \wedge | | | - 1 % | | | |
| -10.0 -20.0 prover have marked | | | | ww | Jown | 20.00 | |
| -30.0 | | | | | | - A Anna Abri | |
| -40.0 | | | | | | | |
| -50.0 | | | | | | | CF Step |
| Center 1.883 GHz #Res BW 100 kHz | | #VBW 390 |) kHz | | | n 10 MHz ep 1 ms | 1.000000 MHz <u>Auto</u> Man |
| Occupied Bandwid | th | Total | Power | 29.5 | dBm | | Freq Offset |
| | 5401 M | Hz | | | | | 0 Hz |
| Transmit Freq Error | 26.774 | kHz OBW | Power | 99 | .00 % | | |
| x dB Bandwidth | 5.548 N | MHz x dB | | -26.0 | 00 dB | | |
| MSG | | | | STATUS | | | |
| | | | | 0.1100 | | | |

5 M_OBW_Mid_16QAM_FullRB





| RL RF 50 Ω AC Center Freq 1.88250000 PASS | 0 GHz #IFGain:Low | . Trig: I | SENSE:INT r Freq: 1.8825 Free Run h: 20 dB | | ALIGN AUTO | Radio Sto | PM May 27, 2024 d: None vice: BTS | Frequency |
|---|----------------------|------------|---|-------|------------|-----------|---|------------------------------------|
| Ref Offset 27.2 10 dB/div Ref 40.00 dB | | | | | | | | |
| 30.0 20.0 | | | | | | | | Center Fred 1.882500000 GHz |
| 10.0 | Jumm | mm | mmm | r | ~ | | | |
| 20.0 10.0 20.0 10.0 10.0 10.0 10.0 10.0 | | | | | how w | mmm | manne | |
| 40.0 | | | | | | | | |
| 50.0 Center 1.883 GHz #Res BW 100 kHz | | # | VBW 390 | kH7 | | Sp | an 10 MHz eep 1 ms | CF Step 1.000000 MH Auto Mar |
| Occupied Bandwid | | | Total F | | 28. | 5 dBm | | Freq Offse |
| | .5193 M | HZ | | | | | | |
| Transmit Freq Error | 17.212 | | OBW F | Power | 9 | 9.00 % | | |
| x dB Bandwidth | 5.261 N | /Hz | x dB | | -26 | .00 dB | | |
| ISG | | | | | STATU | JS | | |

5 M_OBW_Mid_64QAM_FullRB





| Magilent Spectrum Analyzer - Occupied BV | r | _ | | | | | |
|---|---------------------------|------|----------------|-----------------------------------|--------------------|-----------------------|-------------------------------------|
| RL RF 50 Ω AC Center Freq 1.88250000 PASS Ref Offset 27.2 c | #IFGain:Low | T | 1.882500000 G | ALIGN AUTO Hz Hold: 500/500 | Radio De | | Frequency |
| 10 dB/div Ref 40.00 dBi Log 30.0 20.0 | n <u>.</u> | | | | | | Center Freq 1.882500000 GHz |
| 10.0 0.00 -10.0 -20.0 -30.0 | | | | | Mannen | mmm | |
| 40.0 50.0 Center 1.883 GHz #Res BW 100 kHz | | #VBW | 390 kHz | | | an 10 MHz eep 1 ms | CF Step 1.000000 MHz Auto Mar |
| Occupied Bandwid 4 | th .5083 MH | | otal Power | 26 | .4 dBm | | Freq Offsel 0 Hz |
| Transmit Freq Error x dB Bandwidth | 14.120 k 5.289 M | | BW Power dB | | 99.00 % 6.00 dB | | |
| MSG | | | | STAT | TUS . | | |

5 M_OBW_Mid_256QAM_FullRB





| RL RF 50 Ω AC Center Freq 1.88250000 PASS PASS | 0 GHz #IFGain:Low | . Trig: I | SENSE:INT r Freq: 1.88250 Free Run h: 20 dB | | ALIGN AUTO | 07:46:40 F Radio Std Radio Dev | | Frequency |
|--|----------------------|-----------|--|----------|------------|--------------------------------------|-----------------------|---------------------------------|
| Ref Offset 27.2 10 dB/div Ref 40.00 dB | | | | | | | | |
| 20.0 | | | | | | | | Center Fred 1.882500000 GH2 |
| 10.0 | ale and a second | mmm | manne | ann Mari | h-n l | | | |
| 10.0 20.0 million marine Ma | ph - | | | | Prof. | have been and the second | mmm | |
| 30.0 | | | | | | | | |
| 50.0 | | | | | | | | CF Step |
| Center 1.883 GHz #Res BW 200 kHz | | # | VBW 8201 | kHz | | | in 20 MHz eep 1 ms | 2.000000 MHz <u>Auto</u> Mar |
| Occupied Bandwic | Ith .0424 MI | Hz | Total P | ower | 30. | 4 dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 27.653 | kHz | OBW P | ower | 9 | 9.00 % | | |
| x dB Bandwidth | 10.24 N | IHz | x dB | | -26 | .00 dB | | |
| ISG | | | | | STAT | US | | |

10 M_OBW_Mid_QPSK_FullRB





| Agilent Spectrum Analyzer - Occupied B | N | _ | | | | | - Ø × |
|--|---------------------------|---|---------------------|------------|-----------|-----------------------|---------------------------------|
| RL RF 50 Ω AC Center Freq 1.88250000 PASS PASS PASS PASS | 0 GHz #IFGain:Low | SENSE:INT Center Freq: 1.88 Trig: Free Run #Atten: 20 dB | | ALIGN AUTO | Radio Sto | | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dB | | | | | | | |
| 30.0 20.0 | | | | | | | Center Fred 1.882500000 GH; |
| 10.0 | manna | en an | souther whether the | m | | | |
| 0.00 -10.0 -20.0 mar Anna mar mar mar and | N | | | N. N. N. | halmanna | | |
| 20.0 | | | | | | and severyther | |
| -40.0 | | | | | | | CF Step |
| Center 1.883 GHz #Res BW 200 kHz | | #VBW 82 | 0 kHz | I | | an 20 MHz eep 1 ms | 2.000000 MHz <u>Auto</u> Man |
| Occupied Bandwid | th .0395 MI | | l Power | 29.3 | 3 dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 29.071 k | Hz OBW | Power | 99 | 9.00 % | | |
| x dB Bandwidth | 10.65 N | IHz x dB | | -26 | .00 dB | | |
| ASG | | | | STATU | IS | | |

10 M_OBW_Mid_16QAM_FullRB





| Agilent Spectrum Analyzer - Occupied B | w | | SENSE:INT | - | ALIGN AUTO | 07:46:00 0 | M May 27, 2024 | |
|---|----------------------|-------------------|------------------------------------|-------|------------|------------------------|--|------------------------------|
| Center Freq 1.88250000 | 0 GHz #IFGain:Low | Center Trig: F | Freq: 1.8825 ree Run : 20 dB | | 1: 500/500 | Radio Std Radio Dev | : None | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dB | | | | | | | | |
| 30.0 20.0 | | | | | | | | Center Fre 1.882500000 GH |
| 10.0 | Januan | mallin | makerman | hanne | my | | | |
| 0.00 10.0 20.0 | A rd | | | | A Const | nathannama | | |
| 20.0 | | | | | | | and the strend of the strend o | |
| 50.0 | | | | | | | | CF Ste 2.000000 MH |
| Center 1.883 GHz Res BW 200 kHz | | # | VBW 820 | kHz | | | n 20 MHz eep 1 ms | <u>Auto</u> Ma |
| Occupied Bandwid 9 | Ith .0258 M | Hz | Total F | Power | 28. | 3 dBm | | Freq Offse 0 H |
| Transmit Freq Error | 31.199 | kHz | OBW P | ower | 9 | 9.00 % | | |
| x dB Bandwidth | 10.35 M | /Hz | x dB | | -26 | .00 dB | | |
| ISG | | | | | STAT | us | | |

10 M_OBW_Mid_64QAM_FullRB





| Agilent Spectrum Analyzer - Occupied B | v | | | | | | | |
|--|---------------------------|------------|---|-------|------------|---------------|---|--------------------------------|
| RL RF 50 Ω AC Center Freq 1.88250000 PASS PASS PASS PASS | 0 GHz #IFGain:Low | Center | SENSE:INT Freq: 1.8825 ree Run : 20 dB | | ALIGN AUTO | Radio Sto | PM May 24, 2024 d: None vice: BTS | Frequency |
| Ref Offset 27.2 of 10 dB/div Ref 40.00 dB | | | | | | _ | | |
| 20.0 | | | | | | | | Center Freq 1.882500000 GHz |
| 0.00 | monor | honor | | **** | Amy | | | |
| -10.0 -20.0 -30.0 | / | | | | - Ar white | nugetwart Mar | w | |
| -40.0 | | | | | | | | CF Step |
| Center 1.883 GHz #Res BW 200 kHz | | #\ | /BW 820 | kHz | | | an 20 MHz eep 1 ms | 2.000000 MHz |
| Occupied Bandwid 9 | th .0209 MI | Hz | Total F | Power | 26. | 3 dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 20.896 | kHz | OBW F | Power | 9 | 9.00 % | | |
| x dB Bandwidth | 10.17 N | IHz | x dB | | -26 | .00 dB | | |
| MSG | | | | | STATU | JS | | |

10 M_OBW_Mid_256QAM_FullRB





| J Agilent Spectrum Analyzer - Occupied B | | | | | | | |
|---|-----------------|-------------|-----------------|----------------|---------------------------------|----------|--------------------------------|
| X RL RF 50 Ω AC Center Freq 1.88250000 PASS PASS | | | 1.882500000 GHz | ALIGN AUTO | Radio Std: Nor Radio Device: | ne | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dE | | | | | | | |
| 30.0 | | | | | | | Center Freq 1.882500000 GHz |
| 10.0 | | minnallundi | annal manua | 1-197 <u>1</u> | | | |
| -10.0 -20.0 million while war Will | 4 | | | The Andrew | manan | Withhere | |
| -30.0 | | | | | | | |
| -50.0 | | | | | 0 | | CF Step 3.000000 MHz |
| Center 1.883 GHz #Res BW 300 kHz | | #VBW | 1.2 MHz | | Span 3 Sweep | | <u>Auto</u> Man |
| Occupied Bandwid | ath 3.529 MI | | tal Power | 30.4 | dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 46.605 | kHz OE | 3W Power | 99. | 00 % | | |
| x dB Bandwidth | 15.30 N | 1Hz x o | IB | -26.0 | 0 dB | | |
| MSG | | | | STATUS | | | |

15 M_OBW_Mid_QPSK_FullRB





| 🧱 Agilent Spectrum Analyzer - Occupied BV | V | _ | _ | | - | | |
|---|---------------------------|--|-----------------------|------------|------------------|----------------------|--|
| RL RF 50 Ω AC Center Freq 1.88250000 PASS Ref Offset 27.2 d | #IFGain:Low | Center Freq: 1.88 Trig: Free Run #Atten: 20 dB | | ALIGN AUTO | Radio Std | | Frequency |
| 10 dB/div Ref 40.00 dB Log 30.0 20.0 | | | - the bit - the state | | | | Center Freq 1.882500000 GHz |
| 10.0 0.00 -10.0 -20.0 -4.09 -40.0 | | | | | where and have | mar and a second | |
| 50.0 Center 1.883 GHz #Res BW 300 kHz | | #VBW 1.: | 2 MHz | | Spa | n 30 MHz eep 1 ms | CF Step 3.000000 MHz <u>Auto</u> Man |
| Occupied Bandwid | th 3.491 MI | | l Power | 29. | 4 dBm | | Freq Offset 0 Hz |
| Transmit Freq Error x dB Bandwidth | 48.425 H 15.31 N | | Power | | 9.00 % .00 dB | | |
| MSG | | | | STATU | IS | | |

15 M_OBW_Mid_16QAM_FullRB





| Agilent Spectrum Analyzer - Occupied | | | | | | | | |
|--|-----------------------------|--|--------------|-------|------------|------------------------|---------------------|--|
| RL RF 50 Ω AC Center Freq 1.8825000 PASS PASS | | Center Fr | | | ALIGN AUTO | Radio Std Radio Dev | | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dl | | | | | | | | |
| 20.0 | | | | | | | | Center Freq 1.882500000 GHz |
| 0.00 | Junnorman | Marina and and and and and and and and and a | ᡃᢘᠼᡁᡡ᠇ᠲᠴᢗᡗᡅᡟ | mound | nen j | | | |
| -10.0 | £ | | | | hogh by | +slow Mr. ward | whentry when | |
| -40.0 | | | | | | | | |
| Center 1.883 GHz #Res BW 300 kHz | | #VB | W 1.2 № | IHz | | | n 30 MHz ep 1 ms | CF Step 3.000000 MHz <u>Auto</u> Mar |
| Occupied Bandwi | ^{dth} 3.466 MI | | Total P | ower | 28. | 3 dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 51.858 | kHz | OBW P | ower | 99 | 9.00 % | | |
| x dB Bandwidth | 15.27 N | MHz | x dB | | -26 | .00 dB | | |
| MSG | | | | | STATU | IS | | |

15 M_OBW_Mid_64QAM_FullRB





| J Agilent Spectrum Analyzer - Occupied BV | r | _ | | | | - | | |
|--|---------------------------|--------------|--------------|----------------|------------|--------------|-----------------------|--------------------------------|
| RF 50 Ω AC Center Freq 1.88250000 PASS Ref Offset 27.2 c | #IFGain:Low | Center Fr | | | ALIGN AUTO | Radio De | | Frequency |
| 10 dB/div Ref 40.00 dB/ log 30.0 20.0 | m | | | | | | | Center Freq 1.882500000 GHz |
| 10.0 0.00 -10.0 -20.0 | | nennenenenen | syllestatul. | Annonenen A | KA L | Non America | | |
| -20.0 Highlannahar lahan an la | | | | | | North Market | erren wahrten | CF Step 3.000000 MHz |
| Center 1.883 GHz #Res BW 300 kHz | | #VB | W 1.2 M | Hz | | | an 30 MHz eep 1 ms | Auto Man |
| Occupied Bandwid | th 3.525 MI | ١z | Total P | ower | 26.3 | 3 dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 22.551 | Hz | OBW P | ower | 99 | 9.00 % | | |
| x dB Bandwidth | 15.27 N | Hz | x dB | | -26. | 00 dB | | |
| MSG | | | | | STATU | s | | |

15 M_OBW_Mid_256QAM_FullRB





| Agilent Spectrum Analyzer - Occupied B RL RF 50 Q AC | | | concentral | | | 07.51.15 | 000000000000000000000000000000000000000 | |
|---|--|--------------|---|----------|------------|----------|---|--------------------------------|
| RL RF 50 Ω AC Center Freq 1.88250000 PASS PASS | | Center | SENSE:INT Freq: 1.8825 ree Run : 20 dB | | ALIGN AUTO | Radio St | PM May 27, 2024 d: None vice: BTS | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dE | | | | | | | | |
| 20.0 | | | | | | | | Center Free 1.882500000 GH: |
| 10.0 | n manananananananananananananananananana | n ha hinarih | man | nonman | www | | | |
| 10.0 | 1 | | | | 1 ha | Waynow | not a c | |
| 30.0 | | | | | | | an. i's jeren ijende | |
| 50.0 | | | | | | | | CF Ster |
| Center 1.883 GHz #Res BW 390 kHz | | #\ | /BW 1.6 M | ∬ MHz | | | an 40 MHz eep 1 ms | 4.000000 MH <u>Auto</u> Mar |
| Occupied Bandwig | | | Total F | Power | 30. | .5 dBm | | Freq Offse 0 Hi |
| | 7.950 MI | | | - | | | | |
| Transmit Freq Error | 61.061 | | OBW F | ower | | 9.00 % | | |
| x dB Bandwidth | 20.04 N | IHZ | x dB | | -26 | 6.00 dB | | |
| ISG | | | | | STAT | us | | |

20 M_OBW_Mid_QPSK_FullRB





| Agilent Spectrum Analyzer - Occupied E | | 1 | | | | | | |
|--|---------------------|----------|----------|----------|------------|--|---------------------|--|
| RL RF 50Ω AC Center Freq 1.88250000 PASS | | Center F | | | ALIGN AUTO | Radio Std: Radio Dev | | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dE | | | | | | | | |
| 20.0 | | | | | | | | Center Freq 1.882500000 GHz |
| 10.0 | approximation and a | manner | www. | kantupon | - | | | |
| -10.0 -20.0 strannannin ministration | × | | | | hum | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | monthe | |
| -30.0 | | | | | | | | |
| -50.0 Center 1.883 GHz #Res BW 390 kHz | | #VE | BW 1.6 N | 1Hz | | | n 40 MHz ep 1 ms | CF Step 4.000000 MHz <u>Auto</u> Man |
| Occupied Bandwic | ath 7.978 MI | Ηz | Total P | ower | 29. | 5 dBm | | Freq Offset 0 Hz |
| Transmit Freq Error | 51.979 | ĸHz | OBW P | ower | 9 | 9.00 % | | |
| x dB Bandwidth | 19.75 N | lHz | x dB | | -26 | .00 dB | | |
| MSG | | | | | STATU | 21 | | |

20 M_OBW_Mid_16QAM_FullRB





| Agilent Spectrum Analyzer - Occupied E K RL RF 50 Ω AC | W | | SENSE:INT | _ | | 07-50-44.0 | M May 27, 2024 | - Ø 🔀 |
|---|-----------------------|-------------------|-----------------------------------|--------------|------------|-------------------------|---------------------|--|
| Center Freq 1.88250000 | 00 GHz #IFGain:Low | Center Trig: F | Freq: 1.8825 Free Run 20 dB | | ALIGN AUTO | Radio Std: Radio Dev | None | Frequency |
| Ref Offset 27.2 10 dB/div Ref 40.00 dE | | | | | , | | | |
| 20.0 | | | | | | | | Center Free 1.882500000 GH |
| 10.0 | when Arabi | - | monder | water sauged | m h | | | |
| 20.0 Howbstrathand | A | | | | hour | manulacup | withness | |
| 40.0 | | | | | | | | 07.04 |
| Center 1.883 GHz #Res BW 390 kHz | | # | VBW 1.6 N | ЛНz | | | n 40 MHz ep 1 ms | CF Stej 4.000000 MH <u>Auto</u> Ma |
| Occupied Bandwic | ith 7.958 MI | Hz | Total F | Power | 28. | 5 dBm | | Freq Offse 0 H |
| Transmit Freq Error | 71.996 | kHz | OBW F | ower | 9 | 9.00 % | | |
| x dB Bandwidth | 19.83 N | ИНz | x dB | | -26 | .00 dB | | |
| ISG | | | | | STATU | JS | | |

20 M_OBW_Mid_64QAM_FullRB





| XI RF 50 Ω AC Center Freq 1.882500000 GHz PASS #IFGai Ref Offset 27.2 dB 10 dB/div Ref 40.00 dBm Log | Center Trig: Fr | 20 dB | Hold: 500/500 | 05:55:39 PM May 24, 2024 Radio Std: None Radio Device: BTS | Frequency Center Freq 1.882500000 GHz |
|--|--------------------|-------------|---------------|---|---|
| 10 dB/div Ref 40.00 dBm 30.0 | normal mph Brann | | | Introduction for the second | |
| 30.0 20.0 10.0 0.00 -0.000 -0.000 -0.0 | n in produced Bern | | huteria | lel-puistichertinannelly | |
| 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 -50.0 Center 1.883 GHz | nninpredmedillern | on | huter | 10-your when why | |
| -20.0 -30.0 -40.0 -50.0 Center 1.883 GHz | | | An Hawing | el-manlownamety | |
| -40.0 -50.0 Center 1.883 GHz | | | | | |
| | | | | | CF Step |
| | #V | /BW 1.6 MHz | | Span 40 MHz Sweep 1 ms | 4.000000 MHz <u>Auto</u> Man |
| Occupied Bandwidth 17.98 | 2 MHz | Total Power | 26.6 d | IBm | Freq Offset 0 Hz |
| Transmit Freq Error 38 | 3.865 kHz | OBW Power | 99.0 | 0 % | |
| x dB Bandwidth 1 | 9.78 MHz | x dB | -26.00 | dB | |
| MSG | | | STATUS | | |

20 M_OBW_Mid_256QAM_FullRB



| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC | | SENSE:INT | ALIGN AUTO | 03:46:40 PM May 24, 2024 | |
|--|------------------------------------|---------------------------|------------------------|--|------------------------------------|
| enter Freq 5.0150000 | O GHz PNO: Fast ↔ IFGain:Low | | #Avg Type: RMS | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A | Frequency |
| 0 dB/div Ref 10.00 dBm | THE DECOMPOSITION | WAREN. 10 GD | MI | (r1 3.161 1 GHz -67.357 dBm | Auto Tun |
| | | | | | Center Fre 5.015000000 GH |
| 30.0 40.0 50.0 | | | | | Start Fre 30.000000 MH |
| 50.0 70.0 50.0 | | | | RMS | Stop Fre 10.000000000 GF |
| tart 30 MHz Res BW 1.0 MHz | | / 3.0 MHz | | Stop 10.000 GHz 7.33 ms (20001 pts) | CF Ste 997.000000 Mi Auto Mi |
| | 3.161 1 GHz 1.851 0 GHz | -67.357 dBm -4.932 dBm | UNCTION FUNCTION WIDTH | FUNCTION VALUE | Freq Offs 0 H |
| 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | | | | |
| G | | m | | | |

1.4M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



| | ctrum Analyzer - Swe | pt SA | | | | | | | | |
|-------------------------|------------------------|----------|------------------|---------------------------|--------|----------|------------|-----------------------------------|--|---------------------------------------|
| Center F | RF 50 ດ req 5.01500 | 00000 GH | IZ NO: Fast ↔ | | | #Avg Typ | ALIGN AUTO | TRACI | 1 May 24, 2024 1 2 3 4 5 6 A ************************************ | Frequency |
| 10 dB/div | Ref 10.00 | IF | Gain:Low | #Atten: 20 | | | Mk | r1 3.708 | | Auto Tune |
| 0.00 | \$ | 2 | | | | | | | | Center Freq 5.015000000 GHz |
| -30.0 -40.0 -50.0 | | | | | | | | | | Start Freq 30.000000 MHz |
| -60.0 -70.0 -80.0 | أمنيت مستريب المناسب | | ¹ | | | ~~~ | <u> </u> | | RMS | Stop Freq 10.00000000 GHz |
| Start 30 N #Res BW | 1.0 MHz | X | #VBV | V 3.0 MHz | FUNCTI | | weep 17 | Stop 10. .33 ms (20 FUNCTIO | 0001 pts) | CF Step 997.000000 MHz Auto Mar |
| 1 N 1 | | 3.708 | 4 GHz 9 GHz | -67.324 dBr -5.094 dBr | n | | | | | Freq Offset 0 Hz |
| 8 9 10 11 | | | | ш | | | | | • | |
| ISG | | | | | | | STATUS | 6 | | |

1.4M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



| Agilent Spectrum Analyzer - Swept SA | | | | | |
|--------------------------------------|----------------------------|---------------------------|----------------|---|--------------------------------------|
| Center Freq 5.0150000 | | SENSE:INT | #Avg Type: RMS | 03:52:05 PM May 24, 2024 TRACE 1 2 3 4 5 0 TYPE A WWWW DET A A A A A A A | Frequency |
| 10 dB/div Ref 10.00 dBn | IFGain:Low | #Atten: 20 dB | Mł | cr1 3.707 9 GHz -67.424 dBm | Auto Tune |
| 2 0.00 10.0 20.0 | | | | | Center Fred 5.015000000 GHz |
| -30.0 | | | | | Start Freq 30.000000 MHz |
| -60.0 -70.0 -80.0 | | | | RMS | Stop Fred 10.000000000 GHz |
| Start 30 MHz #Res BW 1.0 MHz | #VBW | 3.0 MHz | Sweep 17 | Stop 10.000 GHz 2.33 ms (20001 pts) | CF Step 997.000000 MH Auto Mar |
| 1 N 1 f 2 N 1 f 3 4 5 6 | 3.707 9 GHz 1.915 3 GHz | -67.424 dBm -5.353 dBm | | | Freq Offset 0 Hz |
| 7 8 9 10 11 | | | | | |
| ≺ MSG | | ш | STATU | S | |

1.4M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



| Agilent Spec | ctrum Analyzer - Swept S | | _ | - | | | | | | |
|----------------------------------|--------------------------|---------------------------------|----------------------------------|--|----------------|--|---|--|--|--|
| | RF 50 Ω req 5.015000 | 000 GHz | SENSE:IN | #Avg | ALIGN AUTO | 03:54:40 PM May 24, 202 TRACE 2 3 4 5 | Frequency | | | |
| | | PNO: Fast - IFGain:Low | #Atten: 20 dB | | | | The second second | | | |
| 10 dB/div | | | | | | | | | | |
| 0.00 | \$ ² | | | | | | Center Fre 5.015000000 GH | | | |
| 30.0 40.0 -50.0 | | | | | | | Start Fre 30.000000 MH | | | |
| 60.0 70.0 80.0 | | | 1 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~ | RM | Stop Fre 10.000000000 GH | | | |
| | 1.0 MHz | | W 3.0 MHz | | | Stop 10.000 GHz .33 ms (20001 pts | CF Ste 997.000000 MH <u>Auto</u> Ma | | | |
| MKR MODE TH 2 N 1 3 4 5 | 1 f | X 3.716 9 GHz 1.851 0 GHz | <u>-67.465 dBm</u> -5.210 dBm | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | Freq Offse 0 H | | | |
| 6 7 8 9 10 | | | | | | | | | | |
| | | | m | | | | | | | |
| SG | | | | | STATU | S | | | | |

3 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB