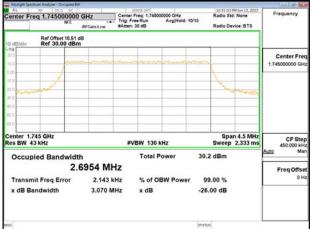
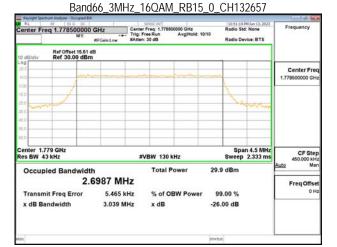
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Band66_3MHz_16QAM_RB15_0_CH132322

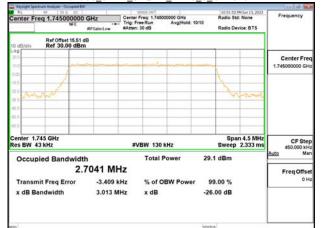




Band66_3MHz_64QAM_RB15_0_CH131987

| RL | eq 1.71150000 | 0 GHz | Stinic Infl Center Freq: 1.711 Trig: Free Run | 500000 GHz Avg[Hold:>10/10 | | Frequency |
|------------------------|-----------------|------------------|---|-------------------------------|--------------------------------|--------------------------------|
| | Ref Offset 15.5 | #FGeinLow | #Atten: 30 dB | | Radio Device: BTS | |
| 10 dB/div | Ref 30.00 dE | | | | | |
| 20.0 | | ormalica finance | 00000000000 | - | ~ | Center Free 1.711500000 GHz |
| 0.00 | 1 | | | | | |
| no Antra | mand | | | | mound | |
| 0.0 | | | | | | |
| 0.0 | | | | | | |
| 0.0 | | | | | | |
| enter 1.7 tes BW 43 | | | #VBW 130 | kHz | Span 4.5 MHz Sweep 2.333 ms | |
| Occup | ied Bandwid | ith | Total | Power | 29.4 dBm | Auto Mar |
| | 2 | .7002 MH | z | | | Freq Offset |
| Transm | it Freq Error | -1.296 k | Hz % of C | BW Power | 99.00 % | 0 Hs |
| x dB Ba | ndwidth | 3.032 M | Hz xdB | | -26.00 dB | |
| 50 | | | | | itatus | |

Band66_3MHz_64QAM_RB15_0_CH132322



Band66 3MHz 64QAM RB15 0 CH132657 10.52:08 PH Jun 17 Radio Std: None enter Freq 1.778500000 GHz Center Freq: 1.77850 000 GHz Radio Device: BTS Ref Offset 15.51 dB Ref 30.00 dBm Center Free 1,7785000 enter 1.779 GHz Span 4.5 MH Sweep 2.333 m CF Ste #VBW 130 kHz Total Power 29.0 dBm Occupied Bandwidth 2.7067 MHz Freq Offs Transmit Freg Error 1.628 kHz % of OBW Power 99.00 %

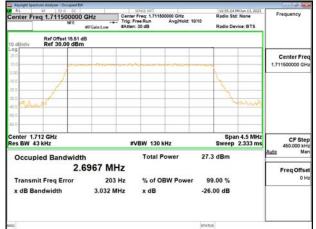
Band66_3MHz_256QAM_RB15_0_CH131987

x dB

-26.00 dB

3.036 MHz

x dB Bandwidth



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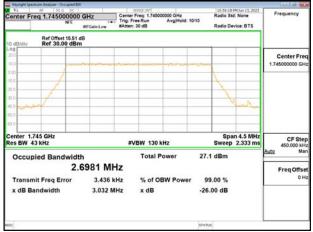
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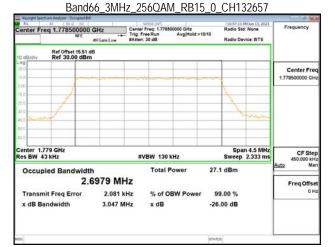
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SGS

Band66_3MHz_256QAM_RB15_0_CH132322



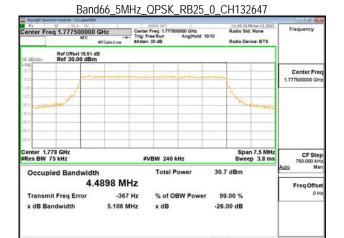


Band66_5MHz_QPSK_RB25_0_CH131997

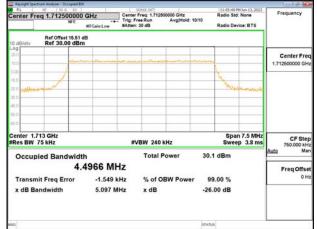
| Keysight Spect | trum Analyser - Occupied BW | | - | 1000 | | | 17.150.02 | PM Jun 13, 2023 | 0.0 |
|-----------------------|-------------------------------------|-----------------------|--|-----------------|---------|-------|--------------------------------------|---|--------------------------------|
| Center Fre | eq 1.712500000 NFE | GHz #FGein:Low | Sthot Still Center Freq: 1.712500000 GHz Trig: Free Run AvgiMold: 10/10 #Atten: 30 dB | | | 10/10 | Radio Std: None Radio Device: BTS | | Frequency |
| 10 dB/div | Ref Offset 15.51 d Ref 30.00 dBm | | | | | | | | |
| 10:0 | | | | m | | | | | Center Freq 1.712500000 GHz |
| 10.00 | and | | | | | | the | and | |
| 40.0 | | | | | | | | | |
| 60.0 | | | | | | | | | |
| Center 1.7 #Res BW | | | #VB | W 240 k | Hz | | | an 7.5 MHz ep 3.8 ms | CF Step 750.000 kHz |
| Occup | ied Bandwidt | h 1964 MH | | Total P | ower | 31. | 1 dBm | | Auto Man Freg Offset |
| | hit Freq Error andwidth | -1.793 ki 5.118 Mi | 122 | % of OI x dB | BW Powe | | 9.00 % .00 dB | | 0 Hz |
| 50 | | | | | | statu | 5 | | |

Band66_5MHz_QPSK_RB25_0_CH132322





Band66_5MHz_16QAM_RB25_0_CH131997



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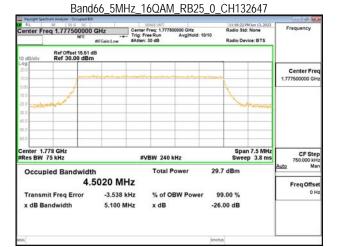
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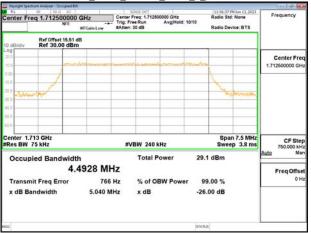


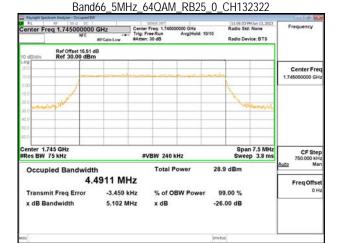
Band66_5MHz_16QAM_RB25_0_CH132322

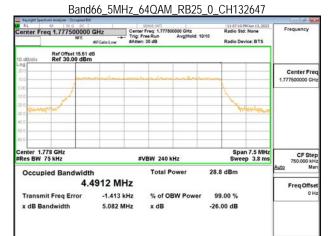




Band66_5MHz_64QAM_RB25_0_CH131997







Band66_5MHz_256QAM_RB25_0_CH131997



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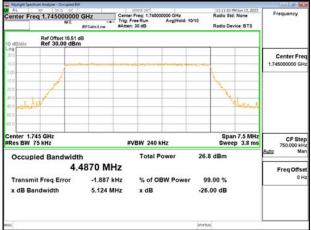
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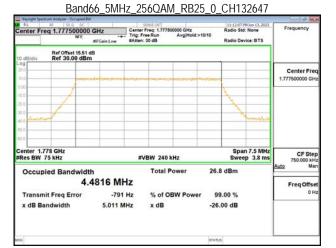
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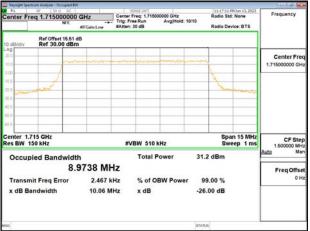
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Band66_5MHz_256QAM_RB25_0_CH132322

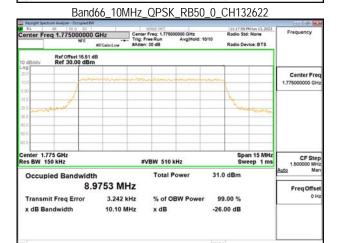




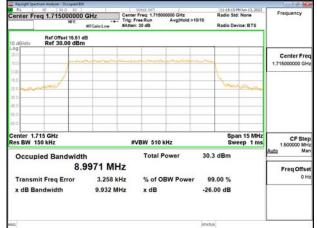
Band66_10MHz_QPSK_RB50_0_CH132022



Band66_10MHz_QPSK_RB50_0_CH132322 Partio Std: No ter Freq 1.745000000 GHz 00 GHz Radio Device: BTS Ref Offset 15.51 dB Ref 30.00 dBm Center Fre 1 7450 enter 1.745 GH Span 15 MH Sween 1 m CF St #VBW 510 kHz 31.1 dBm Occupied Bandwidth **Total Power** 8.9997 MHz Freq Offs Transmit Freg Error 392 Hz % of OBW Power 99.00 % 9.970 MHz -26.00 dB x dB Bandwidth x dB



Band66_10MHz_16QAM_RB50_0_CH132022



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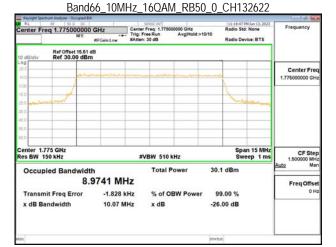
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Band66_10MHz_16QAM_RB50_0_CH132322

| Reysont Seed | enter Freq 1.745000000 G | | | Center I Trig: Fr | Center Freq: 1.745000000 GHz Trig: Free Run Avg Hold:>10/10 #Atten: 30 dB | | | Radio Device: BTS | | Frequency | |
|--------------|--------------------------------------|----|---------------------|----------------------|---|---------|------------|-------------------|---------------|-----------------------------------|--|
| 10 dB/div | Ref Offset 15.51 dB Ref 30.00 dBm | | | | | | | | | | |
| 20.0 | 1 | | | | | dan war | | | | Center Free 1.745000000 GH | |
| 10.0 20.0 | and the second second | | | | | | | how | - Manager and | | |
| 0.0 | | | | | | | | | | | |
| center 1.7 | 46 0112 | | | | | | | - Con | in 15 MHz | 0.51.02.77 | |
| tes BW 1 | | | | #V | BW 510 | KHZ | | | eep 1 ms | CF Step 1.500000 MH Auto Ma | |
| Occup | ied Bandv | | 91 MH | łz | Total F | ower | 30. | 0 dBm | | Auto Mar Freq Offse | |
| | nit Freq Erro andwidth | or | -5.432 k 9.943 M | | % of O x dB | BW Powe | - <u>.</u> | 9.00 % 5.00 dB | | он | |
| 0 | | | | | | | stat | 15 | | | |



Band66_10MHz_64QAM_RB50_0_CH132022

| | trum Analyser - Occupied BV | 18 m | 2000033222 | | U. 1990 (1990) (1990) (1990) | -0-0-0- |
|----------------------|-------------------------------------|--------------------------|---|------------------------------|--------------------------------------|--------------------------------|
| Center Fre | eq 1.715000000 NFE | | enter Freq: 1.7150 rig: Free Run Atten: 30 dB | 00000 GHz Avg Hold:>10/10 | Radio Std: None Radio Device: BTS | Frequency |
| 10 dB/div | Ref Offset 15.51 o Ref 30.00 dBn | iB 1 | | | | |
| 200 10:0 | - | net weak out wat | monte | and the second | | Center Freq 1.715000000 GHz |
| 10.0 | | | | | The and the second | |
| 30.0 40.0 50.0 | | | | | | |
| conter 1.7 | | | | | Span 15 MHz | CF Step |
| Res BW 1 | 50 kHz | | #VBW 510 | kHz | Sweep 1 ms | 1.500000 MHz Auto Mar |
| Occup | ied Bandwidt 8. | ^h 9874 MHz | Total F | ower | 29.3 dBm | Freq Offset |
| | it Freq Error Indwidth | 14.698 kHz 9.996 MHz | | BW Power | 99.00 % -26.00 dB | 0 Hz |
| 450 | | | | | status | |

Band66_10MHz_64QAM_RB50_0_CH132322 er Freq 1.745000000 GHz Padio Std: N 00 GHz Radio Device: BTS Ref Offset 15.51 di Ref 30.00 dBm Center Fre 1 7450 enter 1.745 GH Span 15 MH Sween 1 m CF St #VBW 510 kHz 29.2 dBm Occupied Bandwidth Total Power 8.9760 MHz Freq Offs Transmit Freg Error 8.493 kHz % of OBW Power 99.00 % 9.946 MHz -26.00 dB x dB Bandwidth x dB





Band66_10MHz_256QAM_RB50_0_CH132022



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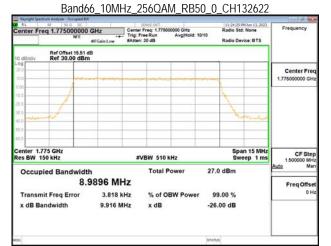
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Band66_10MHz_256QAM_RB50_0_CH132322

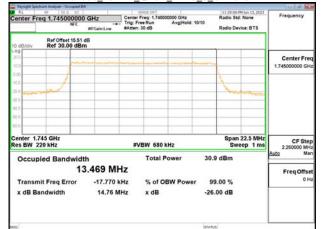


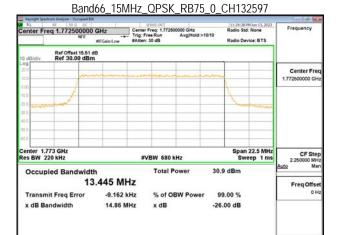


Band66_15MHz_QPSK_RB75_0_CH132047

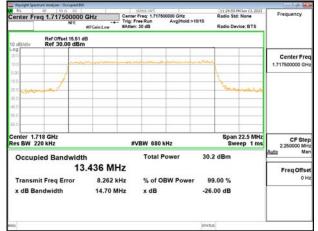
| Center Fr | eq 1.717500000 NFE | -t- | Sense anti Center Freq: 1.7178 Trig: Free Run IAtten: 30 dB | 717500000 GHz | | Radio Std: None Radio Device: BTS | | Frequency |
|------------------------|-------------------------------------|------------------------|--|---------------|--------|--------------------------------------|----------------------|--------------------------------|
| 10 dB/div | Ref Offset 15.51 o Ref 30.00 dBn | | | | | | | |
| 200 100 | - | - har and | | 4 | | | | Center Freq 1.717500000 GHz |
| 10 0 20 0 30 0 | ment | | | | | July - | - | |
| #1.0 50.0 | | | | | | | | |
| Center 1.7 Tes BW 2 | | | #VBW 680 | kHz | | | 22.5 MHz eep 1 ms | CF Step 2 250000 MHz |
| Occup | ied Bandwidt 13 | h 3.472 MHz | Total I | Power | 30.9 | dBm | | Auto Man Freg Offset |
| | hit Freq Error andwidth | -10.406 kH 14.68 MH | | BW Power | | 00 % 10 dB | | 0 Hz |
| 50 | | | | | status | | | |

Band66_15MHz_QPSK_RB75_0_CH132322





Band66_15MHz_16QAM_RB75_0_CH132047



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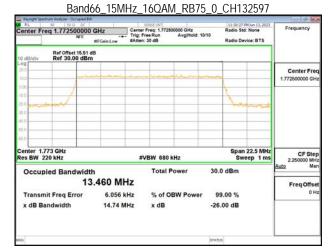
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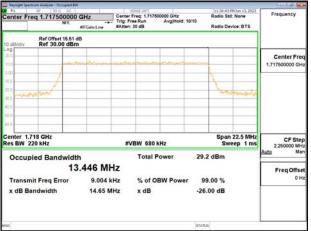


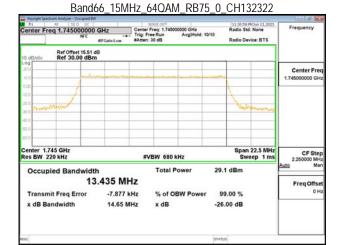
Band66 15MHz 16QAM RB75 0 CH132322

| Center Fr | eq 1.74500000 NFE | 0 GHz #FGein:Low | Center Freq: 1.745000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB | | | 10/10 | Radio Std: None Radio Device: BTS | Frequency | |
|------------|----------------------------------|---------------------------|---|----------------|---------|--------|--------------------------------------|-------------------------------|--|
| 10 dB/div | Ref Offset 15.51 Ref 30.00 dB | | | | | | | | |
| 20.0 | - | | mente | | | | | Center Free 1.745000000 GH | |
| 10.0 | www. | | | | | | harmon | | |
| 41.0 | | | | - | | | | | |
| center 1.7 | | | | | | | 0 | | |
| Res BW 2 | | | #V | BW 680 | kHz | | Span 22.5 MHz Sweep 1 ms | 2.250000 MH | |
| Occup | oled Bandwid | th 3.461 MH | ١z | Total F | ower | 30 | .1 dBm | Auto Ma | |
| | nit Freq Error andwidth | -14.275 M | 10.000 | % of O x dB | BW Powe | 11 Jul | 9.00 % 5.00 dB | он | |
| 50 | | | | | | STAT | 15 | | |



Band66_15MHz_64QAM_RB75_0_CH132047



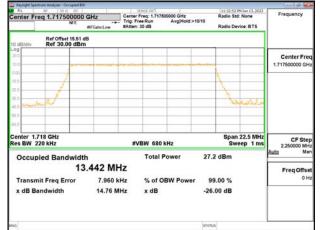




Band66 15MHz 64QAM RB75 0 CH132597

Span 22.5 MH Sweep 1 m enter 1.773 GH CF Ste #VBW 680 kHz Total Power 29.0 dBm Occupied Bandwidth 13.429 MHz Freq Offs Transmit Freg Error -8.354 kHz % of OBW Power 99.00 % 14.76 MHz x dB Bandwidth -26.00 dB x dB





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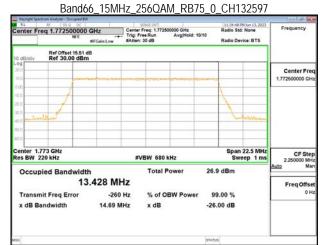
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Band66_15MHz_256QAM_RB75_0_CH132322



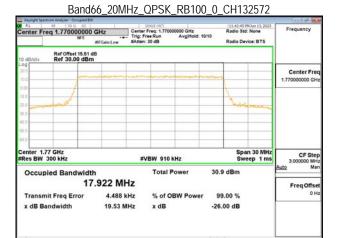


Band66_20MHz_QPSK_RB100_0_CH132072

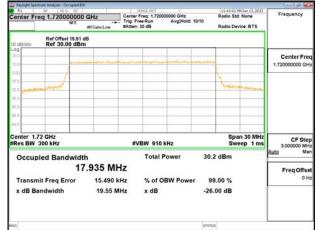
| Keysight Spect | trum Analyser - Occupied BM | 100 million (100 million) | | | 10000 | | -0-6- |
|----------------------|-------------------------------------|---------------------------|---|-----------------------------|----------------------|---------------------|-------------------------------|
| | eq 1.720000000 NFE | OTIZ | Center Freq: 1.720 Trig: Free Run #Atten: 30 dB | 000000 GHz Avg(Hold: 10* | Radio Std | 100 C | Frequency |
| 0 dB/div | Ref Offset 15.51 o Ref 30.00 dBn | | | | | | |
| .0g 200 | - | | | | | | Center Free 1.720000000 GH |
| 0.00 10.0 20.0 | | | | | temo | | |
| 10 0 | | | | | | | |
| 60.0 | | | _ | | | | |
| Center 1.7 Res BW | | | #VBW 910 | kHz | | n 30 MHz ep 1 ms | CF Step 3.000000 MH |
| Occup | ied Bandwidt 17 | h 7.900 MH | | Power | 31.1 dBm | | Auto Mar Freq Offse |
| | nit Freq Error andwidth | 15.002 kH 19.62 MH | - | DBW Power | 99.00 % -26.00 dB | | он |
| 66 | | | | | status | | |

Padio Std: M er Freq 1.745000000 GHz 00 GHz Radio Device: BTS Ref Offset 15.51 dB Ref 30.00 dBm Center Fre 1 7450 enter 1.745 GHz Span 30 MH Sween 1 m CF St #VBW 910 kHz 30.9 dBm Occupied Bandwidth **Total Power** 17.920 MHz Freq Offs Transmit Freg Error -3.934 kHz % of OBW Power 99.00 % 19.66 MHz -26.00 dB x dB Bandwidth x dB

Band66_20MHz_QPSK_RB100_0_CH132322



Band66_20MHz_16QAM_RB100_0_CH132072



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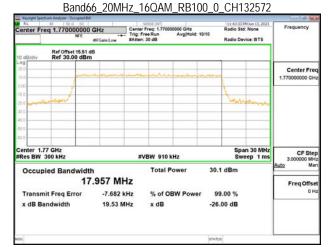
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Band66_20MHz_16QAM_RB100_0_CH132322

| | BUT Analyzer - Occupied BM | 12 m | 275.5 | | | | - Marcalana | | -0-6-20 |
|----------------------|-------------------------------------|-------------------------|-------|----------------------------|----------------------|--------|--------------------------------------|---------------------|--------------------------------|
| Center Fre | nter Freq 1.745000000 GHz | | | eq: 1.74500 Run) dB | 0000 GHz Avg/Hold | >10/10 | Radio Std: None Radio Device: BTS | | Frequency |
| 10 dB/div | Ref Offset 15.51 o Ref 30.00 dBn | | | | | | | | |
| 200 | | | | the states | | ······ | | | Center Fred 1.745000000 GH: |
| 10.00 10.0 | whenest | | | | | | Um | | |
| 41.0 | | | | | | | | _ | |
| 60.0 | | | | | | | | | |
| Center 1.7 Res BW | | | #VB | W 910 k | Hz | | | n 30 MHz ep 1 ms | CF Step 3.000000 MH |
| Occup | ied Bandwidt 17 | ^ь .947 МН | | Total P | ower | 30.1 | dBm | | Auto Mar Freq Offse |
| | it Freq Error Indwidth | -8.021 k 19.62 M | | % of OI x dB | BW Powe | | 9.00 % 00 dB | | 0 H |
| 50 | | | | | | Statu | 5 | | |



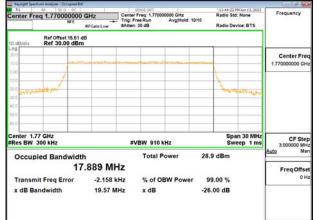
Band66_20MHz_64QAM_RB100_0_CH132072

| Keysight Spect | trum Analyter - Occupied B | V | 1.11 | z-sati | | | | PH Jun 13, 2023 | 0-0-0-00 | |
|----------------|-----------------------------------|---------------------|------------|--------------------|-----------|-------------|------------------|----------------------|------------------------------|--|
| enter Fre | eq 1.720000000 NFE | I GHz | Center Fre | q: 1.720000 Run | | Hold:>10/10 | | I: None vice: BTS | Frequency | |
| 0 dB/div | Ref Offset 15.51 Ref 30.00 dBr | dB n | | | | | | | | |
| 00 00 00 | - | | recolut | | orenthead | - | | | Center Fre 1.720000000 GH | |
| 00 | 1 | | | | | | 1 | | | |
| 0.0 | and wanter | | _ | | | | - March | and the second | | |
| 10 | | | | | | | | | | |
| enter 1.7 | | | | | | | | an 30 MHz | CF Ste | |
| Res BW | ied Bandwid | 'n | | N 910 kl | | 29.1 | Sw 2 dBm | eep 1 ms | 3.000000 MH Auto Ma | |
| e coup | | 7.939 MH | Iz | | | | | | Freq Offse | |
| | nit Freq Error Andwidth | 20.285 k 19.63 M | | % of OB x dB | W Powe | | 9.00 % .00 dB | | 0 H | |
| | | | | | | | | | | |
| 6 | | | | | | statu | 5 | 0 | | |

er Freq 1.745000000 GHz Padio Std: N 00 GHz Radio Device: BTS Ref Offset 15.51 di Ref 30.00 dBm Center Fre 1 7450 enter 1.745 GHz Span 30 MH Sween 1 m CF St #VBW 910 kHz 29.0 dBm Occupied Bandwidth Total Power 17.910 MHz Freq Offs Transmit Freg Error -8.799 kHz % of OBW Power 99.00 % 19.60 MHz -26.00 dB x dB Bandwidth x dB

Band66_20MHz_64QAM_RB100_0_CH132322





Band66_20MHz_256QAM_RB100_0_CH132072



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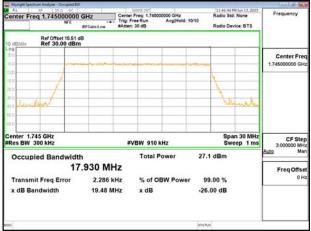
f (886-2) 2298-0488

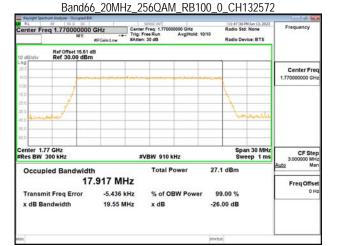
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Band66_20MHz_256QAM_RB100_0_CH132322

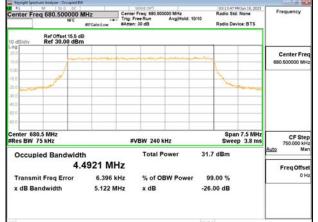


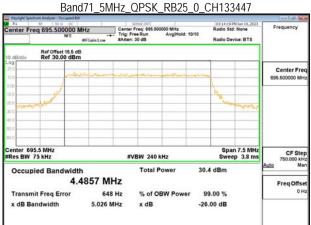


Band71_5MHz_QPSK_RB25_0_CH133147

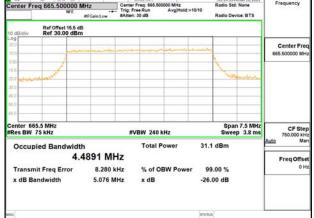
| RL I | RF 58 Q DC | | sense avil | 0000 8814- | 03-13-32 PH Jur Radio Std: No | |
|---------------------|-------------------------------------|---|---------------------------|--------------|----------------------------------|-----------------------------|
| Center Fre | eq 665.500000 N NFE | Tri | g: Free Run ten: 30 dB | Avg[Hold: 10 | | And I |
| 0 dB/div | Ref Offset 15.5 dB Ref 30.00 dBm | | | | | |
| 0 g 20 0 10 0 | - | and a start and a start and a start a s | | | in market | Center Fre 665.500000 MH |
| | mark | | | | - marco | made |
| 10 | | | _ | | | |
| 0.0 | | | _ | | | |
| enter 66 Res BW | | | #VBW 240 | kHz | Span 7. Sweep | 3.8 ms 750.000 kH |
| Occup | ied Bandwidti 4.4 | h 1937 MHz | Total I | Power | 31.9 dBm | Auto Ma |
| | it Freq Error Indwidth | 9.695 kHz 5.074 MHz | % of C x dB | BW Power | 99.00 % -26.00 dB | он |
| 0 | | | | | status | |

Band71_5MHz_QPSK_RB25_0_CH133297





Band71_5MHz_16QAM_RB25_0_CH133147 Radio Std: No



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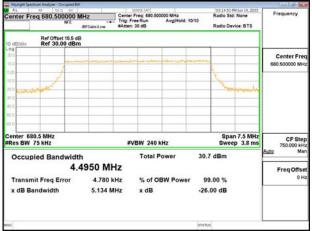
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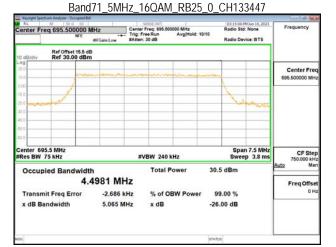
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Band71_5MHz_16QAM_RB25_0_CH133297

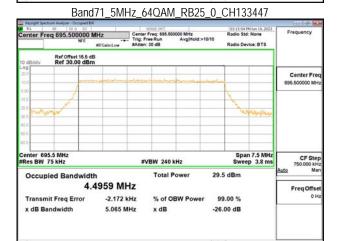




Band71_5MHz_64QAM_RB25_0_CH133147



Band71_5MHz_64QAM_RB25_0_CH133297 03:15:38 PH 34 Padio Std: No ter Freq 680.500000 MHz 000 MHz Radio Device: BTS Ref Offset 15.5 dE Ref 30.00 dBm Center Fre 680 5000 nter 680.5 MH es BW 75 kHz Span 7.5 M CF Ste 750.000 ki #VBW 240 kHz 29.8 dBm Occupied Bandwidth **Total Power** 4.5005 MHz Freq Offs Transmit Freg Error 4.797 kHz % of OBW Power 99.00 % 5.088 MHz -26.00 dB x dB Bandwidth x dB



Band71_5MHz_256QAM_RB25_0_CH133147 Radio Std: No enter Freq 665.500000 MHz Center Freq: 665.500000 MHz Trig: Free Run Avg[Hold: 10/10 io Device: BTS Ref Offset 15.5 dB Ref 30.00 dBm Center Free 665 500000 enter 665.5 MHz Res BW 75 kHz Span 7.5 Mi Sweep 3.8 r CF Ste #VBW 240 kHz Total Power 28.1 dBm **Occupied Bandwidth** 4.4987 MHz Freq Offs 01 4.071 kHz Transmit Freg Error % of OBW Power 99.00 % 5.117 MHz -26.00 dB x dB Bandwidth x dB

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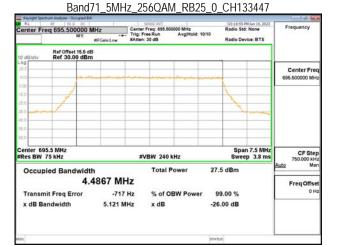
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Band71_5MHz_256QAM_RB25_0_CH133297



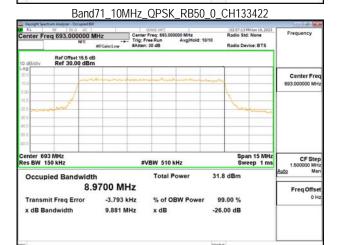


Band71_10MHz_QPSK_RB50_0_CH133172

| Center Fr | eq 668.000000 M NFE | T I I I I I I I I I I I I I I I I I I I | enter Freq: 668.00 rig: Free Run Atten: 30 dB | 0000 MHz AvgiHold: 10/1 | 02:56:25 PK3un 10,20 Radio Std: None Radio Device: BTS | Frequency |
|-----------------------|-------------------------------------|---|---|----------------------------|--|-------------------------------|
| 10 dB/div | Ref Offset 15.5 dE Ref 30.00 dBm | | | | | |
| 200 100 000 | Jan | | | or management | | Center Freq 668.000000 MHz |
| 10.0 | - A | | | | theman | - |
| 41.0 | | | | | | |
| 0.0 | | | _ | | | |
| 0.0 | | | | | | |
| Center 66 tes BW 1 | | | #VBW 510 | kHz | Span 15 M Sweep 1 r | |
| Occup | ied Bandwidt | h | Total F | Power | 32.3 dBm | Auto Mar |
| | 8. | 9298 MHz | 5 | | | Freq Offset |
| | hit Freq Error andwidth | 27.996 kHz 9.795 MHz | 1000000 | BW Power | 99.00 % -26.00 dB | 0 H3 |
| 50 | | | | | status | |

er Freq 680.500000 MHz Padio Std: M Radio Device: BTS Ref Offset 15.5 dE Ref 30.00 dBm Center Fre 680 5000 680.5 MH Span 15 MH Sween 1 m CF Ste nter #VBW 510 kHz 31.9 dBm Occupied Bandwidth **Total Power** 8.9835 MHz Freq Offs Transmit Freg Error 9.848 kHz % of OBW Power 99.00 % 10.06 MHz -26.00 dB x dB Bandwidth x dB

Band71_10MHz_QPSK_RB50_0_CH133297



Band71_10MHz_16QAM_RB50_0_CH133172



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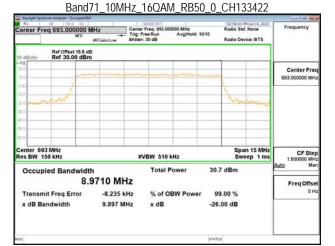
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Band71 10MHz 16QAM RB50 0 CH133297

| | bum Analyser - Occupie | ed BW | | and a strength of | | | | | -0- 6 | |
|-----------------------|------------------------------|----------------|---------------------|---|----------|-------|--------------------------------------|----------|------------------------------|--|
| Center Fre | eq 680.50000 | 0 MHz | Tel | Senter Freq: 680.500000 MHz Frig: Free Run Avg(Hold: 10/10 Atten: 30 dB | | | Radio Std: None Radio Device: BTS | | Frequency | |
| 10 dB/div | Ref Offset 15 Ref 30.00 d | | | | | | | | | |
| 200 100 | | men | | | ····· | | | | Center Free 680.500000 MH | |
| 10.00 20.0 | andread | | | | | | Inder | -Stewart | | |
| 41.0 | | | | _ | | | | | | |
| 60.0 | | | | | | | | | | |
| Center 68 Res BW 1 | | | | #VBW 510 | kHz | | | ep 1 ms | CF Ste 1.500000 MH | |
| Occup | ied Bandw | idth 8.9591 | MHz | Total | Power | 31. | 0 dBm | | Auto Mar Freg Offse | |
| | it Freq Error Indwidth | | .071 kHz 904 MHz | % of 0 x dB | DBW Powe | | 9.00 % .00 dB | | 0H | |
| 50 | | | | | | statu | 5 | | | |



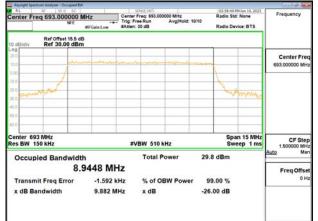
Band71_10MHz_64QAM_RB50_0_CH133172



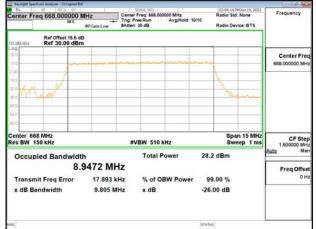
Std: N ter Freq 680.500000 MHz Radio Device: BTS Ref Offset 15.5 dE Ref 30.00 dBm Center Fre 680 5000 enter 680.5 MH Span 15 MH Sween 1 m CF St #VBW 510 kHz 30.0 dBm Occupied Bandwidth **Total Power** 8.9930 MHz Freq Offs Transmit Freg Error 6.129 kHz % of OBW Power 99.00 % 9.900 MHz -26.00 dB x dB Bandwidth x dB

Band71_10MHz_64QAM_RB50_0_CH133297

Band71 10MHz 64QAM RB50 0 CH133422



Band71_10MHz_256QAM_RB50_0_CH133172



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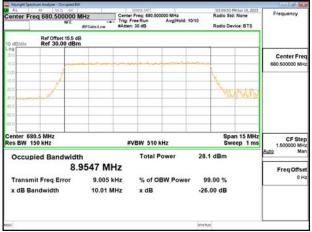
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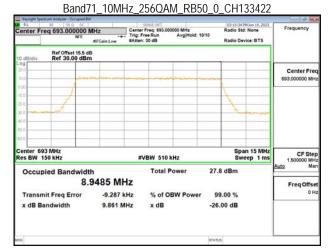
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Band71_10MHz_256QAM_RB50_0_CH133297



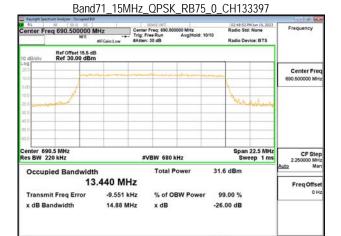


Band71_15MHz_QPSK_RB75_0_CH133197

| RL | eq 670.500000 NFE | AHz c | stinse anti- enter Freq: 670.50 rig: Free Run Atten: 30 dB | 0000 MHz Avg Hold:>10/10 | Radio Std: None Radio Device: BTS | Frequency | |
|---------------------|-------------------------------------|-------------------------|---|-----------------------------|--------------------------------------|---|--|
| 0 dB/div | Ref Offset 15.5 dE Ref 30.00 dBm | 3 | | | | | |
| 0 g 20 0 10 0 | | | Name and Provide and | pro- | ~ | Center Freq 670.500000 MHz | |
| 00 | mount | | - | | MonuterNM | | |
| 10 | | | | | | | |
| 0.0 | | | _ | | | | |
| enter 67 es BW 2 | | | #VBW 680 | kHz | Span 22.5 MHz Sweep 1 ms | CF Ste 2.250000 MH Auto Ma Freq Offse 0 H | |
| Occup | ied Bandwidt 13 | h .417 MHz | Total I | ower | 2.1 dBm | | |
| | nit Freq Error andwidth | 13.799 kHz 14.64 MHz | 1 1 1 1 1 1 1 1 1 1 | BW Power | 99.00 % 26.00 dB | | |
| | | | | 5 | tatus | | |

Band71_15MHz_QPSK_RB75_0_CH133297





Band71_15MHz_16QAM_RB75_0_CH133197



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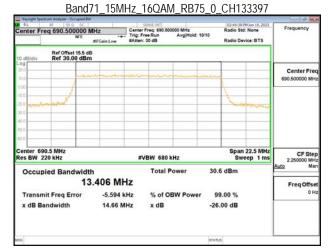
www.sqs.com.tw

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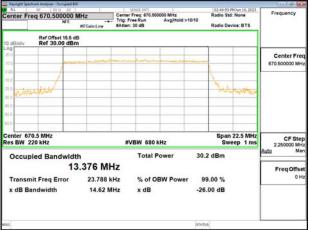


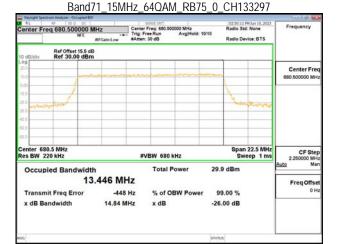
Band71 15MHz 16QAM RB75 0 CH133297

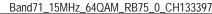
| Center Fre | nFE | MHz #FGeintow | | Freq: 680.500 ee Run 30 dB | 000 MHz Avg[Hold: | 10/10 | Radio Dev | 2007 Co. | Frequency | |
|-------------------------|-----------------------------------|--------------------------|----|----------------------------------|----------------------|-------|-----------------|---------------------|-------------------------------|--|
| 10 dB/div | Ref Offset 15.5 c Ref 30.00 dB | iB m | | | | | | | Center Freq 680.500000 MHz | |
| 20.0 10.0 | - | | | | innie | | | | | |
| 0.00 | mail | | | | | | here | | | |
| 41.0 | | _ | | | | | | | | |
| 50.0 | | | | | | | | | | |
| Center 680 Res BW 22 | | | #V | BW 680 k | Hz | | | 22.5 MHz ep 1 ms | CF Ste 2.250000 MH | |
| Occupi | ied Bandwid 1 | th 3.441 M | Hz | Total P | ower | 30.8 | 3 dBm | | Auto Mar Freq Offse | |
| | it Freq Error ndwidth | 10.038 14.68 | | % of OE x dB | BW Powe | 100 | 9.00 % 00 dB | | OH | |
| 50 | | | | | | statu | 5 | | | |

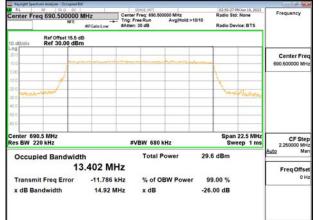


Band71_15MHz_64QAM_RB75_0_CH133197

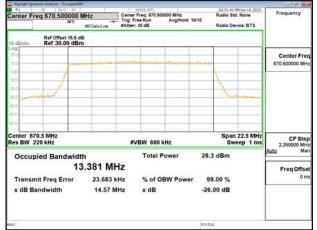








Band71_15MHz_256QAM_RB75_0_CH133197



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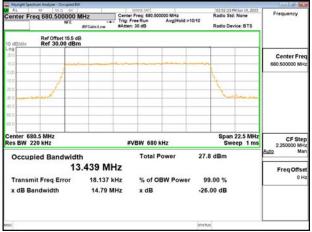
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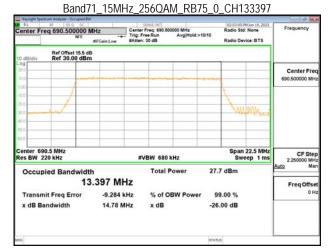
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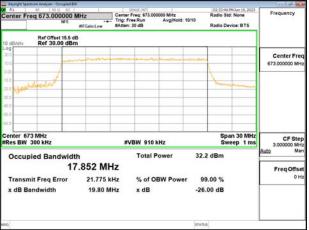


Band71_15MHz_256QAM_RB75_0_CH133297





Band71_20MHz_QPSK_RB100_0_CH133222



07:34:02 PM3u Padio Std: No ter Freq 680.500000 MHz Radio Device: BTS Ref Offset 15.5 dE Ref 30.00 dBm Center Fre 680 5000 nter 680.5 MHz es BW 300 kHz Span 30 Mł Sween 1 m CF St #VBW 910 kHz 31.9 dBm Occupied Bandwidth **Total Power** 17.910 MHz Freq Offs Transmit Freg Error 11.251 kHz % of OBW Power 99.00 % 19.73 MHz -26.00 dB x dB Bandwidth x dB

Band71_20MHz_QPSK_RB100_0_CH133297





Band71_20MHz_16QAM_RB100_0_CH133222



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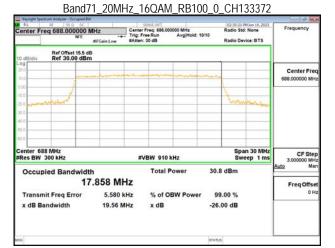
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Band71_20MHz_16QAM_RB100_0_CH133297

| Center Fre | eq 680.5000 N | 00 MHz | iein Low | Center F | | 000 MHz Avg[Hold | 10/10 | Radio Sto | Sector Sector | Frequency | |
|----------------------|---------------------------|---------------|---------------------|----------|-----------------|---------------------|-------|--------------------|-----------------------|-------------------------------|--|
| 10 dB/div | Ref Offset 1 Ref 30.00 | 6.5 dB dBm | | | | | | | | | |
| 200 100 | | -put | m | والمجرست | a contraction | ma | inner | - | | Center Freq 680.500000 MHz | |
| 10.0 | wowled | | | | | | | Low | - | | |
| 41.0 | | | | | | | | | | | |
| 50.0 60.0 | | | | | | | | | | | |
| Center 68 #Res BW | | | | #VE | 3W 910 k | Hz | | | an 30 MHz eep 1 ms | CF Step 3.000000 MHz | |
| Occup | ied Bandv | | 05 MH | z | Total P | ower | 30 | .9 dBm | | Auto Man Freq Offset | |
| | it Freq Erro Indwidth | r | 21.296 k 19.43 M | | % of OE x dB | BW Powe | | 99.00 % 6.00 dB | | OH | |
| 150 | | | | | | | sta | tus. | | | |



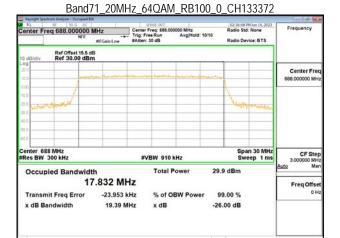
Band71_20MHz_64QAM_RB100_0_CH133222

| RL | eq 673.000000 M | VHz | SENSE 2KT Center Freq: 673.00 Trig: Free Run #Atten: 30 dB | 00000 MHz Avg[Hold:>10 | Radio Std: N Radio Std: N Radio Devic | Ione Frequency |
|--------------------|-------------------------------------|-----------------------|---|---------------------------|---|-----------------------------------|
| 10 dB/div | Ref Offset 15.5 dE Ref 30.00 dBm | B | | | | |
| 200 100 | | | | | | Center Fr 673.000000 M |
| | welder all | | | | Landrey | |
| 00 | | | | | | |
| enter 67 Res BW | | | #VBW 910 | kHz | | 30 MHz CF St p 1 ms 3.000000 M |
| Occup | ied Bandwidt 17 | h 7.838 MH: | | Power | 30.2 dBm | Auto M |
| | nit Freq Error andwidth | 35.758 kH 19.35 MH | | BW Power | 99.00 % -26.00 dB | 0 |
| 0 | | | | | 57ATUS | |

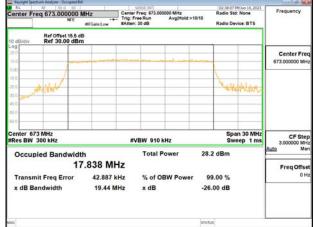
er Freq 680.500000 MHz Radio Device: BTS Ref Offset 15.5 dE Ref 30.00 dBm Center Fre 680 500000 nter 680.5 MHz es BW 300 kHz Span 30 Mł Sween 1 m CF St #VBW 910 kHz 29.9 dBm Occupied Bandwidth **Total Power**

Band71_20MHz_64QAM_RB100_0_CH133297

17.887 MHz Freq Offs Transmit Freg Error 11.027 kHz % of OBW Power 99.00 % 19.49 MHz -26.00 dB x dB Bandwidth x dB



Band71_20MHz_256QAM_RB100_0_CH133222



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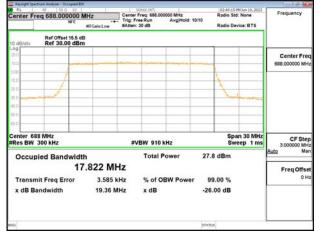
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Band71_20MHz_256QAM_RB100_0_CH133297

| Center Fre | eq 680.500000 I NFE | Tria. | nter Freq: 680.5 g: Free Run tten: 30 dB | 00000 MHz AvgiHold: 1 | 0/10 | Radio Devic | lone | Frequency | |
|-----------------------|-------------------------------------|---|--|--------------------------|-----------|----------------|------------------|-------------------------------|--|
| 0 dB/div | Ref Offset 15.5 dl Ref 30.00 dBn | | | | | | | Center Freq 680.500000 MHz | |
| 0 0 0 10 0 0 00 | - Andrew | han an a | MALUMM | Manfront | math star | | | | |
| | martil | | _ | | | Hurr | and the second | | |
| 40.0 50.0 50.0 | | | | | | | (adveller | | |
| Center 68 Res BW | | | #VBW 910 | kHz | | | 30 MHz p 1 ms | CF Step 3.000000 MHz | |
| Occup | ied Bandwidt 17 | ^h 7.923 MHz | Total | Power | 24.2 | dBm | | Auto Man Freq Offset | |
| | nit Freq Error andwidth | 40.530 kHz 18.62 MHz | % of C x dB | BW Power | | .00 % 00 dB | 3 | 01 | |
| 0 | | | | | status | | | | |

Band71_20MHz_256QAM_RB100_0_CH133372



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OUT OF BAND EMISSION AT ANTENNA TERMINALS 9

9.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(a)

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
 - (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
 - (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
 - (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

FCC §27.53(q)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P) dB$;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- i. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

FCC §27.53(h)(1)

(h) AWS emission limits-(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log₁₀ (P) dB.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

FCC §90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

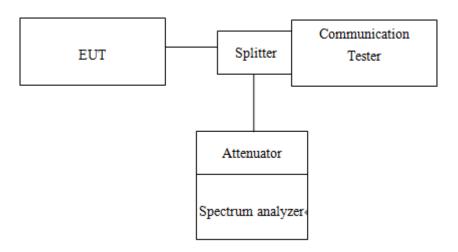
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9.3 **Measurement Procedure**

9.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

9.3.2 Band Edge

- To connect Antenna Port of EUT to Spectrum.
- 2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

9.4 **Band Edge Measurement Result:**

Refer to next pages.

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Band Edge_Band2_1.4MHz_QPSK_RB1_0_CH18607





Band Edge Band2 1.4MHz QPSK RB6 0 CH18607



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Band Edge_Band2_3MHz_QPSK_RB1_0_CH18615



Band Edge Band2 3MHz QPSK RB1 14 CH19185



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Band Edge_Band2_3MHz_QPSK_RB15_0_CH18615





Band Edge Band2 5MHz QPSK RB1 0 CH18625



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Band Edge_Band2_5MHz_QPSK_RB1_24_CH19175



Band Edge_Band2_5MHz_QPSK_RB25_0_CH18625



Band Edge Band2 5MHz QPSK RB25 0 CH19175



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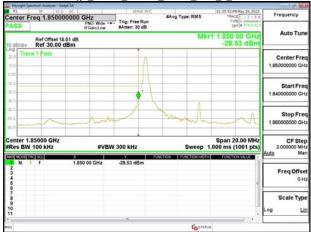
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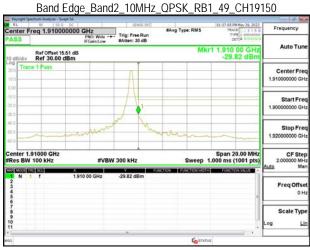
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Band Edge_Band2_10MHz_QPSK_RB1_0_CH18650

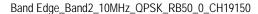




Band Edge Band2 10MHz QPSK RB50 0 CH18650

| 0 0 0 | | | | 154 | ectrum Analyser - Swept 5 | Keysight Sp |
|--------------------------------|---|---------------|---------------|-----------------------------|----------------------------------|----------------------|
| Frequency | 01:37:20 PM May 26, 2023 TRACE 1 2 3 6 5 6 TYPE A WWWWW | vg Type: RMS | SENSE ONT | 0000 GHz | req 1.850000 | Center F |
| Auto Tune | DET A NINNIN | | #Atten: 30 dB | PNO: Wide ++- IFGain:Low | | PASS |
| Auto Tune | 1 1.850 00 GHz -31.17 dBm | Mkr | | | Ref Offset 15.51 Ref 30.00 dB | 10 dB/div |
| Center Fred 1.850000000 GHz | | | | | e 1 Pass | 20 0 Trac |
| | | | | | | 10.0 |
| Start Fre 1.840000000 GH | | | | | | -10.0 |
| | | - | A1 | | | -20.0 |
| 0.00000000 | | | | | | -30.0 |
| Stop Freq 1.86000000 GHz | | _ | | | | 42.0 |
| | | | | | | -60.0 |
| CF Step 2.000000 MHz | Span 20.00 MHz .000 ms (1001 pts) | Sweep 1 | 300 kHz | #VBW | 85000 GHz 100 kHz | Center 1. #Res BW |
| <u>Auto</u> Man | FUNCTION VIALUE | FUNCTION WOTH | -31.17 dBm | 1.850 00 GHz | | |
| Freq Offset 0 Hz | | | | | | 2 3 4 5 6 |
| Scale Type | | | | | | 7 |
| Log <u>Lin</u> | | | | | | 9 10 11 |
| | 10 mm | Costatu: | | | | • |
| | | Lo STATU | | | | MBG |

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Band Edge_Band2_15MHz_QPSK_RB1_0_CH18675



Band Edge Band2 15MHz QPSK RB1 74 CH19125



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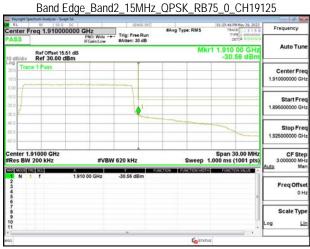
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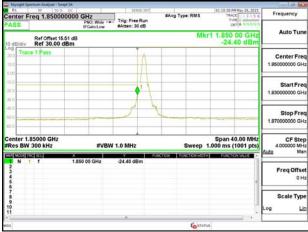


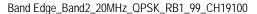
Band Edge_Band2_15MHz_QPSK_RB75_0_CH18675





Band Edge Band2 20MHz QPSK RB1 0 CH18700







Band Edge_Band2_20MHz_QPSK_RB100_0_CH18700



Band Edge Band2 20MHz QPSK RB100 0 CH19100



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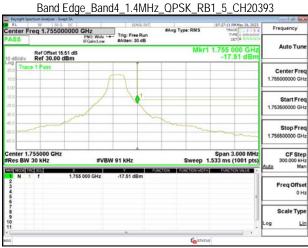
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Band Edge_Band4_1.4MHz_QPSK_RB1_0_CH19957

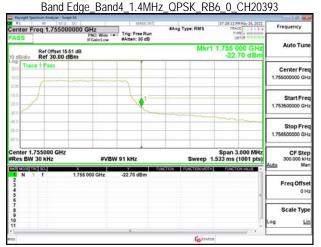




Band Edge Band4 1.4MHz QPSK RB6 0 CH19957



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Band Edge_Band4_3MHz_QPSK_RB1_0_CH19965



Band Edge Band4 3MHz QPSK RB1 14 CH20385



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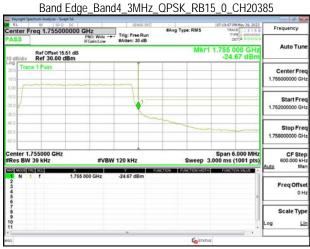
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Band Edge_Band4_3MHz_QPSK_RB15_0_CH19965





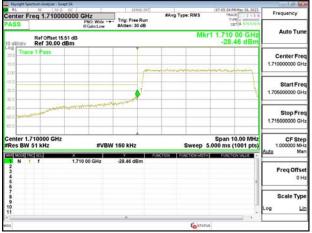
Band Edge Band4 5MHz QPSK RB1 0 CH19975



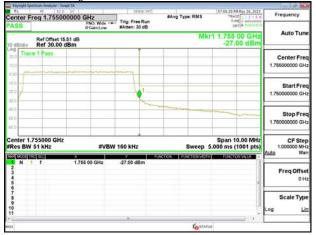
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Band Edge_Band4_5MHz_QPSK_RB25_0_CH19975



Band Edge Band4 5MHz QPSK RB25 0 CH20375



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Band Edge_Band4_10MHz_QPSK_RB1_0_CH20000

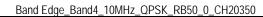




Band Edge Band4 10MHz QPSK RB50 0 CH20000

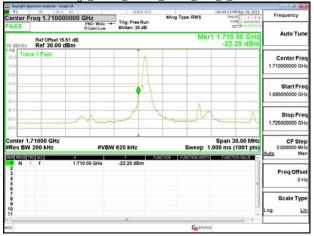


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Band Edge_Band4_15MHz_QPSK_RB1_0_CH20025



Band Edge Band4 15MHz QPSK RB1 74 CH20325



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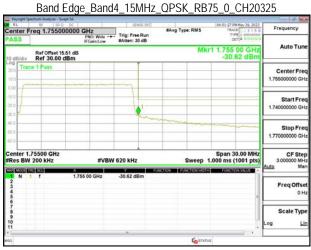
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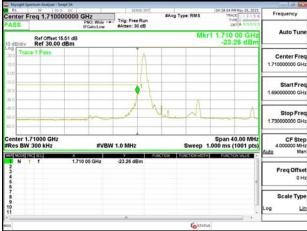


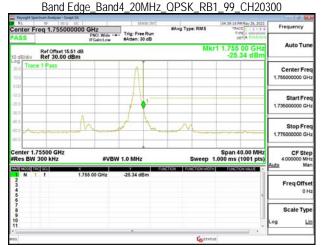
Band Edge_Band4_15MHz_QPSK_RB75_0_CH20025





Band Edge Band4 20MHz QPSK RB1 0 CH20050





Band Edge_Band4_20MHz_QPSK_RB100_0_CH20050



Band Edge Band4 20MHz QPSK RB100 0 CH20300



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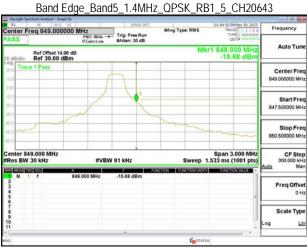
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Band Edge_Band5_1.4MHz_QPSK_RB1_0_CH20407





Band Edge Band5 1.4MHz QPSK RB6 0 CH20407



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Band Edge_Band5_3MHz_QPSK_RB1_0_CH20415



Band Edge Band5 3MHz QPSK RB1 14 CH20635



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