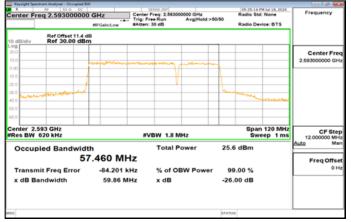




#### Band41\_20MHz\_40MHz\_CP\_64QAM\_106\_0\_Main\_Low

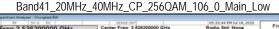


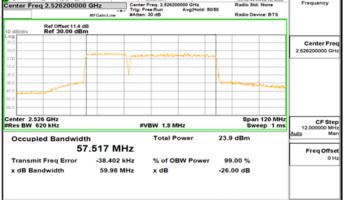


### Band41 20MHz 40MHz CP 64QAM 106 0 Main Mid

## Band41\_20MHz\_40MHz\_CP\_64QAM\_106\_0\_Main\_High







## Band41\_20MHz\_40MHz\_CP\_256QAM\_106\_0\_Main\_Mid



## Band41\_20MHz\_40MHz\_CP\_256QAM\_106\_0\_Main\_High

| Keysight Spectrum Analyzer       | - Occupied BW            | SENSE INT   | 05-41-27 P   | H 3 J 18, 2020                        |
|----------------------------------|--------------------------|---|--|---------------------------------------|
| Center Freq 2.65                 |                          | Center Freq: 2.65990000<br>Trig: Free Run   |  |                                       |
|                                  | #FGain:                  |   | Radio Dev  | ice: BTS                              |
| 10 dB/div Ref 3                  | fset 11.4 dB<br>0.00 dBm |   |  |                                       |
| 20.0                             |                          |   |  | Center Fre<br>2.659900000 GH          |
| 0.00                             | m                        | mante and a start of the start |  |                                       |
| 20.0                             |                          | Y   |  |                                       |
| 10.0<br>40.0                     | lawy and                 |   | & when a work with a second se |                                       |
| 0.0                              |                          |   |  |                                       |
| enter 2.66 GHz<br>Res BW 620 kHz |                          | #VBW 1.8 MHz  |  | 120 MHz CF Ste<br>ep 1 ms 12.000000 M |
| Occupied Ba                      | ndwidth                  | Total Pow   | ver 23.6 dBm   | Auto M                                |
|                                  | 57.633                   | MHz   |  | Freq Offs                             |
| Transmit Freq                    | Error 12                 | 0.64 kHz % of OBW   | / Power 99.00 %  | 0                                     |
| x dB Bandwidt                    | h 59                     | .81 MHz x dB  | -26.00 dB  |                                       |
|                                  |                          |   |  |                                       |
| 90                               |                          |   | STATUS   |                                       |

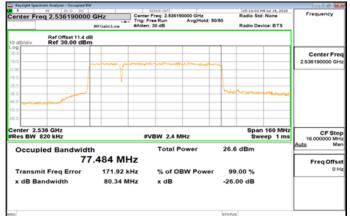
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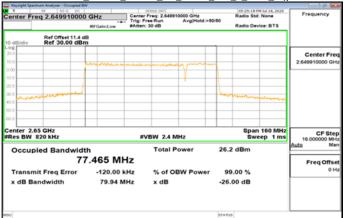
#### Band41\_20MHz\_60MHz\_CP\_QPSK\_162\_0\_Main\_Low

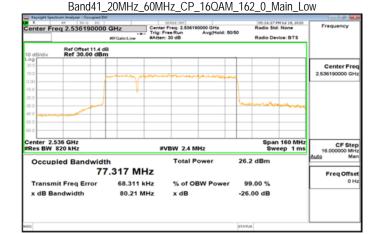




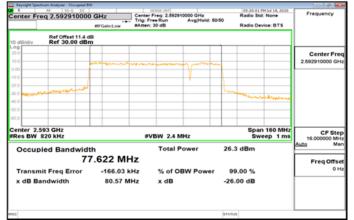
# Band41\_20MHz\_60MHz\_CP\_QPSK\_162\_0\_Main\_Mid

## Band41\_20MHz\_60MHz\_CP\_QPSK\_162\_0\_Main\_High





## Band41\_20MHz\_60MHz\_CP\_16QAM\_162\_0\_Main\_Mid



#### Band41\_20MHz\_60MHz\_CP\_16QAM\_162\_0\_Main\_High

| Center Freq 2              | 50 0 DC<br>2.649910000              | GHz<br>#FGein:Low        | Center Freq: 2.6<br>Trig: Free Run<br>#Atten: 30 dB | 49910000 GHz<br>Avg Hold: ( | Radio<br>50/50       | 5:40 PMJJJ 18, 2020<br>Std: None<br>Device: BTS | Frequency                    |
|----------------------------|-------------------------------------|--------------------------|---|-----------------------------|----------------------|---|------------------------------|
| 10 dB/div                  | tef Offset 11.4 di<br>Ref 30.00 dBn |                          |   |                             |                      |   |                              |
| 20.0                       |                                     | -                        | -provincia dagono.                                  |                             |                      |   | Center Fre<br>2.649910000 GH |
| 0.00                       |                                     |                          |   | 1                           |                      |   |                              |
| 10.0<br>40.0               | morrowal                            |                          |   |                             | - martin             |   |                              |
| 50.0<br>60.0               |                                     |                          |   |                             |                      |   |                              |
| enter 2.65 G<br>Res BW 820 |                                     |                          | #VBW 2  | 4 MHz                       |                      | pan 160 MHz<br>Sweep 1 ms                       | CF Ste<br>16.00000 Mi        |
| Occupied                   | Bandwidt<br>77                      | <sup>ь</sup><br>7.557 МН |   | al Power                    | 26.0 dBn             | n   | Auto Mi                      |
| Transmit F<br>x dB Band    |                                     | -113.28 k<br>80.27 M     |   | f OBW Power<br>B            | 99.00 %<br>-26.00 di | -   | 01                           |
| 90                         |                                     |                          |   |                             | STATUS               |   |                              |

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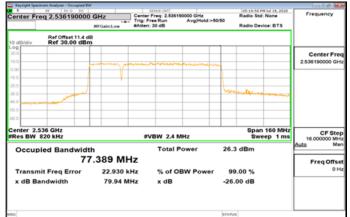
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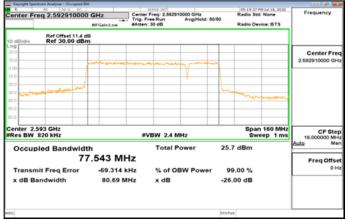
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#### Band41\_20MHz\_60MHz\_CP\_64QAM\_162\_0\_Main\_Low



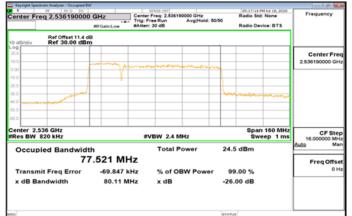


# Band41\_20MHz\_60MHz\_CP\_64QAM\_162\_0\_Main\_Mid

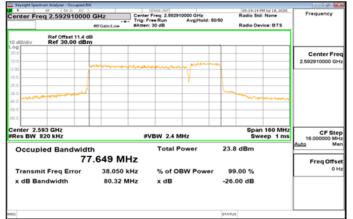
## Band41\_20MHz\_60MHz\_CP\_64QAM\_162\_0\_Main\_High







## Band41\_20MHz\_60MHz\_CP\_256QAM\_162\_0\_Main\_Mid



## Band41\_20MHz\_60MHz\_CP\_256QAM\_162\_0\_Main\_High

| Keysight Spectrum          | Analyzer - Occupied B              | N          | SENSE INT           |              | 100.00.00 | PM 3ul 18, 2020       |                      |
|----------------------------|------------------------------------|------------|---------------------|--------------|-----------|-----------------------|----------------------|
|                            | 2.649910000                        | GHz        | Center Freq: 2.6491 |              | Radio St  |                       | Frequency            |
|                            |                                    | #FGain:Low | #Atten: 30 dB       | Avg[Hold:>50 |           | vice: BTS             |                      |
| 0 dB/div                   | Ref Offset 11.4 d<br>Ref 30.00 dBr |            |                     |              |           |                       |                      |
| 0.0                        |                                    |            |                     |              |           |                       | Center Fre           |
| 0.0                        |                                    | - manage   |                     | mymme        |           |                       | 2.649910000 Gi       |
| 0.0                        |                                    |            |                     | ¥            |           |                       |                      |
| 0.0                        |                                    |            |                     |              | horas     |                       |                      |
| 0.0                        |                                    |            |                     |              |           |                       |                      |
| 0.0                        |                                    |            |                     |              |           |                       |                      |
| enter 2.65 G<br>Res BW 820 |                                    |            | #VBW 2.41           | MHz          |           | n 160 MHz<br>eep 1 ms | CF Sto<br>16.00000 M |
| Occupie                    | d Bandwid                          | th         | Total               | Power        | 23.7 dBm  |                       | <u>Auto</u> M        |
|                            | 77                                 | 7.544 MH   | Ηz                  |              |           |                       | Freq Offs            |
| Transmit I                 | Freq Error                         | 26.088     | Hz % of C           | BW Power     | 99.00 %   |                       | 0                    |
| x dB Band                  | lwidth                             | 80.35 N    | IHz x dB            |              | -26.00 dB |                       |                      |
|                            |                                    |            |                     |              |           |                       |                      |
| 0                          |                                    |            |                     |              | STATUS    |                       |                      |

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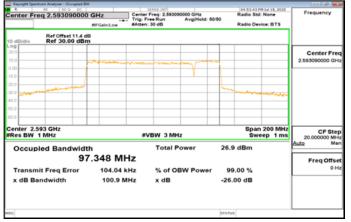
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#### Band41\_20MHz\_80MHz\_CP\_QPSK\_217\_0\_Main\_Low

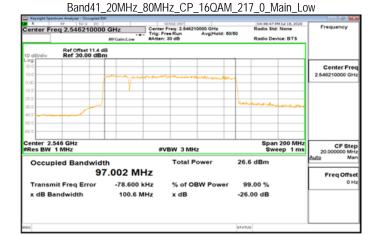




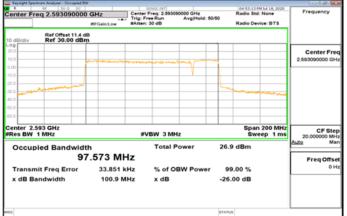
## Band41 20MHz 80MHz CP QPSK 217 0 Main Mid

## Band41\_20MHz\_80MHz\_CP\_QPSK\_217\_0\_Main\_High





## Band41\_20MHz\_80MHz\_CP\_16QAM\_217\_0\_Main\_Mid



## Band41\_20MHz\_80MHz\_CP\_16QAM\_217\_0\_Main\_High

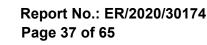


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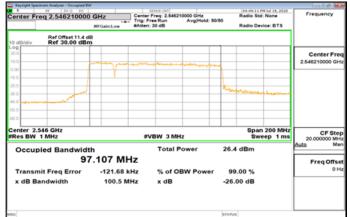
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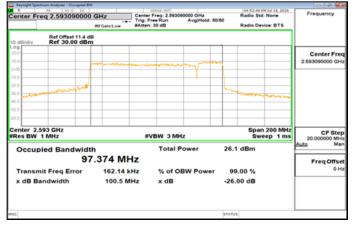
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## Band41\_20MHz\_80MHz\_CP\_64QAM\_217\_0\_Main\_Low

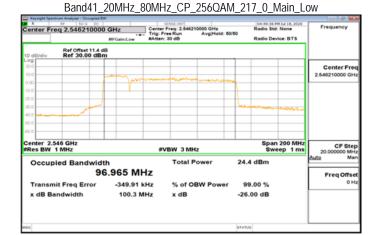




#### Band41 20MHz 80MHz CP 64QAM 217 0 Main Mid

## Band41\_20MHz\_80MHz\_CP\_64QAM\_217\_0\_Main\_High

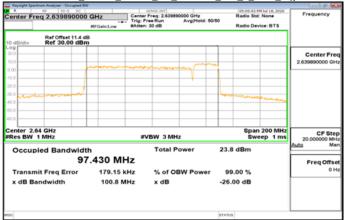




## Band41\_20MHz\_80MHz\_CP\_256QAM\_217\_0\_Main\_Mid



## Band41\_20MHz\_80MHz\_CP\_256QAM\_217\_0\_Main\_High



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#### Band41\_20MHz\_100MHz\_CP\_QPSK\_273\_0\_Main\_Low

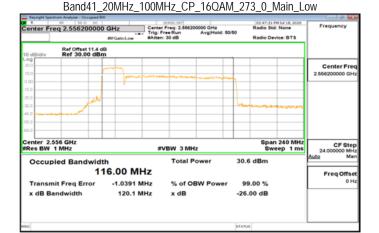




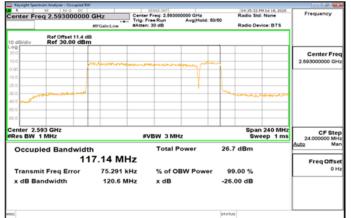
## Band41\_20MHz\_100MHz\_CP\_QPSK\_273\_0\_Main\_Mid

## Band41\_20MHz\_100MHz\_CP\_QPSK\_273\_0\_Main\_High





## Band41\_20MHz\_100MHz\_CP\_16QAM\_273\_0\_Main\_Mid



#### Band41\_20MHz\_100MHz\_CP\_16QAM\_273\_0\_Main\_High

| Center Freq 2.629900                 | 000 GHz Cent                                  | er Freq: 2.629900000 GHz<br>Free Run Avg[Hold: 50<br>m: 30 dB | 150<br>Radio Device: BTS   | Frequency                    |
|--------------------------------------|---|---|----------------------------|------------------------------|
| 10 dB/div Ref 30.00                  |   |   |                            |                              |
| 20.0                                 | 104/18/00/00/00/00/00/00/00/00/00/00/00/00/00 | warman and a second   | ~                          | Center Fre<br>2.629900000 GH |
| 0.00                                 |   |   |                            |                              |
| 20.0<br>30.0<br>40.0                 | لسا   |   | Lawrence                   |                              |
| 50.0                                 |   |   |                            |                              |
| Center 2.63 GHz<br>Res BW 1 MHz      |   | #VBW 3 MHz  | Span 240 MHz<br>Sweep 1 ms | CF Ste<br>24.000000 MH       |
| Occupied Bandw                       | vidth<br>117.30 MHz                           | Total Power   | 26.7 dBm                   | Auto Ma                      |
| Transmit Freq Erro<br>x dB Bandwidth | er 84.706 kHz<br>120.5 MHz                    | % of OBW Power<br>x dB  | 99.00 %<br>-26.00 dB       | 01                           |
|                                      |   |   |                            |                              |
| 2                                    |   |   | STATUS                     |                              |

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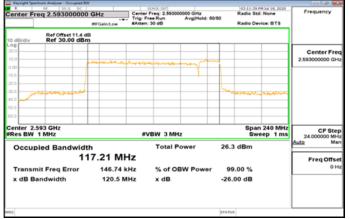
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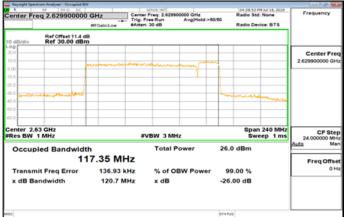
### Band41\_20MHz\_100MHz\_CP\_64QAM\_273\_0\_Main\_Low

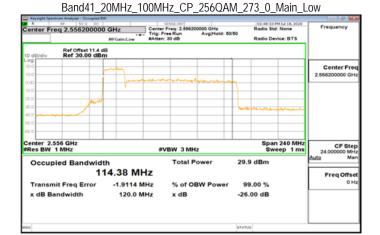




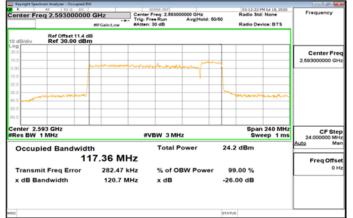
## Band41\_20MHz\_100MHz\_CP\_64QAM\_273\_0\_Main\_Mid

## Band41\_20MHz\_100MHz\_CP\_64QAM\_273\_0\_Main\_High





### Band41 20MHz 100MHz CP 256QAM 273 0 Main Mid



#### Band41\_20MHz\_100MHz\_CP\_256QAM\_273\_0\_Main\_High

| Storage Statutum Adager - Coupled BW         Storage Statutum Adager - Coupled BW         64/26/27 H/M 18, 2026           Inter Freq 2,6229900000 GHz         Center Freg 2,622900000 GHz         64/26/27 H/M 18, 2026           Trig: Freg Xun Adager - Couple BW         Adge Statutum Adager - Couple BW         Radio Stati None |                       |                        |    |                    |                              |
|---|-----------------------|------------------------|----|--------------------|------------------------------|
| Ref Offset 11.4   | MFGain:Low            | #Atten: 30 dB          |    | Radio Device: B    | TS                           |
| 0 dB/div Ref 30.00 dB   |                       | الجناحية مقيطية وراسطم | -m |                    | Center Fre<br>2.629900000 GH |
| 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0  |                       |                        |    | 10 minutes         |                              |
| enter 2.63 GHz<br>Res BW 1 MHz  |                       | #VBW 3 MH              |    | Span 240<br>Sweep  |                              |
| Occupied Bandwid<br>1<br>Transmit Freg Error  | 17.17 MH<br>238.39 kl |                        |    | 4.7 dBm<br>99.00 % | Freq Offs                    |
| x dB Bandwidth  | 120.5 M               | Hz xdB                 | -2 | 26.00 dB           |                              |
| 0   |                       |                        | 87 | ATUS               |                              |

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(新子方方前の) 「山東古部未開到周辺(大橋町県見)「同時山橋町県市留外人、今年報日未知年公司音曲市可) 「小可前辺復報」 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits instructions, if any. The Company's sole responsibility is to its Client and this document does not excoverate parties to a transaction from exercising all their rights and obligations under the transaction documents. This documents are parties to a transaction, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the distribution of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law



# 8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

## 8.1 Standard Applicable

## FCC §22.917(a), §24.238(a), §27.53(h)

## RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-130 §6.6, RSS-199 §4.5

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(c) (5) & FCC §27.53(g) for LTE B71

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.

## ISED RSS-130 §4.7.1 for LTE B71

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

## FCC §27.53(h)(3) for LTE B4, 66

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.

## RSS-139 §6.6 for LTE B4, 66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

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## FCC §27.53(m) (4) (6) for LTE B41

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.

## RSS-199 §4.5 for LTE B41

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

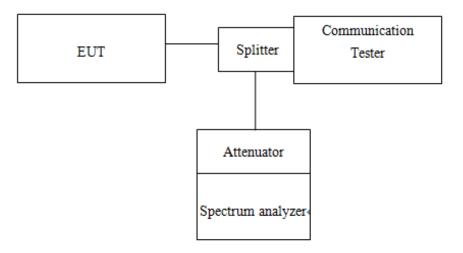
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# 8.2 Test SET-UP



# 8.3 Measurement Procedure

# 8.3.1 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.

# 8.3.2 Band Edge or Mask

- 1. To connect Antenna Port of EUT to Spectrum.
- The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. The only N41 Band used RBW offset method and describe in C63.26 section 5.7.2 the correction factor is following:

Corrcrtion factor = 10 log [(reference bandwidth 1MHz) / (measurement bandwidth 100KHz) =10dB

- 4. Allow trace to fully stabilize
- 5. Repeat above procedures until all default test channel measured were complete.

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#### 8.4 Measurement Equipment Used

| modour officint Ex       | 1000             | •           |                |            |            |
|--------------------------|------------------|-------------|----------------|------------|------------|
| EQUIPMENT                | MFR              | MODEL       | SERIAL         | LAST       | CAL DUE.   |
| TYPE                     |                  | NUMBER      | NUMBER         | CAL.       |            |
| DC Power Supply          | Agilent          | E3640A      | MY40000811     | 12/23/2019 | 12/22/2020 |
| EXA Spectrum<br>Analyzer | KEYSIGHT         | N9010A      | MY57120290     | 02/20/2020 | 02/19/2021 |
| UXM 5G                   | KEYSIGHT         | E7515B      | MY59321561     | 12/16/2019 | 12/15/2020 |
| Attenuator               | Mini-Circuit     | BW-S10W2+   | 2              | 01/02/2020 | 01/01/2021 |
| DC Block                 | Mini-Circuits    | BLK-18-S+   | 1              | 01/02/2020 | 01/01/2021 |
| Splitter                 | <b>RF-LAMBAD</b> | RFLT2W1G18G | 11-JSPF412-018 | 01/02/2020 | 01/01/2021 |

#### 8.5 **Measurement Result:**

Refer to next pages.

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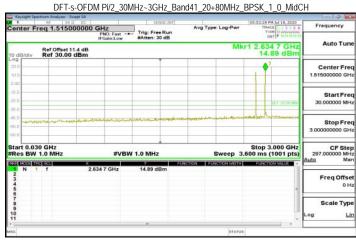
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### Out of Band Emission

#### DFT-s-OFDM Pi/2\_30MHz~3GHz\_Band41\_20+80MHz\_BPSK\_1\_0\_LowCH

| 🧱 Keysight Spectrum Analyzer       |                                    | 100 C 100 | 10                | and the second second second                                 | 0 4 2                              |
|------------------------------------|------------------------------------|---|-------------------|--|------------------------------------|
| Center Freq 1.51                   | 50 00 0C GHz<br>PN0: Fast ==       | Trig: Free Run  | Avg Type: Log-Pwr | 05:48:14 PM 36 18, 2020<br>TRACE 1 2 3 4 5 4<br>Type N WWWWW |                                    |
| Ref Offse<br>10 dB/div Ref 30.1    | IFGain:Low                         | #Atten: 30 dB   | Mk                | r1 2.498 1 GHz<br>14.97 dBm                                  | Auto Tune                          |
| 20.0<br>10.0                       |                                    |   |                   | <b>•</b> <sup>1</sup>  | Center Free<br>1.515000000 GH      |
| 10.0<br>20.0<br>30.0               |                                    |   |                   | DL1 -21.00 ethe  | Start Free<br>30.000000 MH         |
| 40.0<br>50.0<br>60.0               | an an all a she all a she at a she | ulayoodista Baratariyi dhirtari   |                   |  | Stop Fre<br>3.000000000 GH         |
| Start 0.030 GHz<br>#Res BW 1.0 MHz | #VB                                | W 1.0 MHz   | Sweep 3           | Stop 3.000 GHz<br>.600 ms (1001 pts)                         | CF Ste<br>297.000000 MH<br>Auto Ma |
| 1 N 1 f<br>2<br>3<br>4<br>5        | 2.498 1 GHz                        | 14.97 dBm   |                   |  | Freq Offse<br>0 H                  |
| 6<br>7<br>8<br>9<br>10<br>11       |                                    |   |                   |  | Scale Type                         |
| *                                  |                                    | н   | STATUS            |  |                                    |



DFT-s-OFDM Pi/2\_30MHz~3GHz\_Band41\_20+80MHz\_BPSK\_1\_0\_HighCH

| MRCs         EXW         1.0 MHz         Sweep         3.600 ms (1001 pts)         207 00000 Million           N         f         2.572 3 GHz         16.14 dBm         Function         Function         Function         Function         Auto         Master           3         f         2.572 3 GHz         16.14 dBm         Function         Function         Function         Function         Function         Function         Auto         Master         Auto         Master         FreqUite         Auto         Master         FreqUite <th>Keysight Spectrum Analyzer - Swept S</th> <th></th> <th>Contraction Section</th> <th></th> <th></th> <th>-co- di 🕰</th> | Keysight Spectrum Analyzer - Swept S |   | Contraction Section  |  |   | -co- di 🕰     |
|--|--------------------------------------|---|--|--|---|---------------|
| PBO: Fast         Trig: Free Run<br>Ref 00:50 dB         Trig: Free Run<br>Bitter: 30 dB         Mikr1 2:572 3 GHz         Auto Tun           0 dBddw         Ref 30.00 dBm         0<   |                                      |   | SENSE:INT  | Ave Type: Lon-Parr   |   | Frequency     |
| Ref Offset 11.4 dB         Milit 2.57.2 S GHz           Ordidativ         Ref 30.00 dBm           Ordidativ         Start Free           30.000000 MH         Start Free           30.000000 GHz         Stop 5.000 GHz           Start 0.030 GHz         #VEW 1.0 MHz           Sweep 3.600 ms (1001 pts)         Add           Add         Mathematic           Start 0.030 GHz         2.572 3 GHz           T         16.14 dBm           Start 0.030 GHz         Freq Offset           Scale Typ         Log           Ordidativ         Scale Typ  | Center Freq 1.5150000                | PNO: Fast -+                                  |  | ing type coge at   | TYPE IN LABORATION                      |               |
| 300         300         300         Center Fre         1.515000000 GH           100  | 10 dB/div Ref 30.00 dB               |   |  | Mk   |   | Auto Tune     |
| Bit         Start Free           30         Start Free           30.000000 MH         Start Free           30.000000 MH         Start Free           30.000000 MH         Start Free           Start 0.030 GHz         #VEW 1.0 MHz           Start 0.030 GHz         FORSIDAL           Start 0.030 GHz         #VEW 1.0 MHz           Start 0.030 GHz         FORSIDAL           Start 0.030 GHz         FORSIDAL           Start 0.030 GHz         #VEW 1.0 MHz           Start 0.030 GHz         FORSIDAL  | 20.0                                 |   |  |  |   |               |
| Image: start 0.030 GHz         #VEW 1.0 MHz         Stop Stop 3.000 GHz         Stop Free 3.00000000 GH           Start 0.030 GHz         #VEW 1.0 MHz         Sweep 3.600 ms (1001 pts)         CF Start 0.000 GHz           Start 0.030 GHz         #VEW 1.0 MHz         Sweep 3.600 ms (1001 pts)         Adda MM           Start 0.030 GHz         #VEW 1.0 MHz         #VEW 1.0 MHz         Sweep 3.600 ms (1001 pts)           Start 0.030 GHz         #VEW 1.0 MHz         #VEW 1.0 MHz         Sweep 3.600 ms (1001 pts)           Start 0.030 GHz         #VEW 1.0 MHz         #VEW 1.0 MHz         #VEW 1.0 MHz           Start 0.030 GHz         #VEW 1.0 MHz         #VEW 1.0 MHz         #VEW 1.0 MHz           Start 0.030 GHz         #VEW 1.0 MHz         #VEW 1.0 MHz         #VEW 1.0 MHz           Start 0.030 GHz         #VEW 1.0 MHz         #VEW 1.0 MHz         #VEW 1.0 MHz           Start 0.030 GHz         #VEW 1.0 MHz         #VEW 1.0 MHz         #VEW 1.0 MHz           Start 0.04 Mz         #VEW 1.0 MHz         #VEW 1.0 Mz         #VEW 1.0 Mz           Start 0.04 Mz         #VEW 1.0 Mz         #VEW 1.0 Mz         #VEW 1.0 Mz           Start 0.04 Mz         #VEW 1.0 Mz         #VEW 1.0 Mz         #VEW 1.0 Mz           Start 0.04 Mz         #VEW 1.0 Mz         #VEW 1.0 Mz         #VEW 1.0 Mz <td>-10.0</td> <td></td> <td></td> <td></td> <td>0.1 -21.09 effer</td> <td></td>      | -10.0                                |   |  |  | 0.1 -21.09 effer                        |               |
| #Res BW 1.0 MHz         #VEW 1.0 MHz         Sweep 3.600 mis (1001 pts)         287700000 MH           Auto         X         T         2.572 3 GHz         FUISION         FUI  | 40.0<br>50.0                         | 15-17-18-18-18-18-18-18-18-18-18-18-18-18-18- | and a state of the | and a second | annan an an ann an an an an an an an an |               |
| CONTROL THE SECT X X Y X AND X X X X X X X X X X X X X X X X X X X   | Start 0.030 GHz<br>#Res BW 1.0 MHz   | #VBN  |  |  | .600 ms (1001 pts)                      | 297.000000 MH |
| 7<br>8<br>9<br>10<br>11<br>11<br>11<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  |                                      |   |  | UNCTION FUNCTION WRITH   | FUNCTION WALUE                          | Freq Offse    |
| *******  | 7<br>8<br>9<br>10                    |   |  |  |   |               |
|  |                                      |   |  |  |   | M             |
|  | wso o                                |   |  | TATU   |   |               |

DFT-s-OFDM Pi/2\_30MHz~3GHz\_Band41\_20+80MHz\_BPSK\_216\_0\_LowCH

| Keysight Spectrum Analyzer - Swept SA |                         |                                     |                      |   | - C C- 143                 |
|---------------------------------------|-------------------------|-------------------------------------|----------------------|---|----------------------------|
| Center Freq 1.515000000               |                         | SENSE:DKT                           | Avg Type: Log-Pwr    | 05:49:13 PM 3ul 18, 2020<br>TRACE 1 2 3 4 5 6<br>TYPE N 9000000 | Frequency                  |
|                                       | PNO: Fast<br>IFGain:Low | #Atten: 30 dB                       |                      | DET P HINNIN  |                            |
| Ref Offset 11.4 dB<br>Ref 30.00 dBm   |                         |                                     | Mk                   | r1 2.507 0 GHz<br>7.94 dBm                                      | Auto Tun                   |
| 20.0                                  |                         |                                     |                      | -1  | Center Fre                 |
| 10.0                                  |                         |                                     |                      | (Ima)   | 1.515000000 GH             |
| 10.0                                  |                         |                                     |                      |   | Start Fre                  |
| 20.0                                  | _                       |                                     |                      | DL1 -25.00 ether  | 30.000000 MH               |
| 40.0 ander site market Market         | and some largers        | and the second second second second | man and an and       | at Muneart  |                            |
| 50.0                                  |                         |                                     |                      |   | Stop Fre<br>3.000000000 GH |
| Start 0.030 GHz                       |                         |                                     |                      | 01 2 000 OU-  |                            |
| Res BW 1.0 MHz                        | #VBV                    | V 1.0 MHz                           | Sweep 3.             | Stop 3.000 GHz<br>600 ms (1001 pts)                             | 297.000000 MH              |
| N 1 1 2                               | 507 0 GHz               | 7.94 dBm                            | NCTION FUNCTION WOTH | FUNCTION WALVE  | Auto Ma                    |
| 2<br>3<br>4<br>6                      |                         |                                     |                      |   | Freq Offse                 |
| 4<br>5<br>6<br>7<br>8<br>9<br>10      |                         |                                     |                      |   | Scale Typ                  |
| 10<br>11                              |                         |                                     |                      |   | Log L                      |
| * [                                   |                         | н                                   | STATUS               |   |                            |

DFT-s-OFDM Pi/2\_30MHz~3GHz\_Band41\_20+80MHz\_BPSK\_216\_0\_MidCH

| -co-l-di- 🔐              |   |                    | 5727020454546                  |            | ectrum Analyzer - Swept SA          | 🔤 Keynight Spe        |
|--------------------------|---|--------------------|--------------------------------|------------|-------------------------------------|-----------------------|
| Frequency                | 05:52:07 PH 36 18, 2020<br>TRACE 1 2 3 6 5 6<br>TYPE N WWWWWW<br>DET P WWWWWW | vg Type: Log-Pwr   | SENSE:INT                      | GHz        | req 1.515000000                     | Center Fr             |
| Auto Tune                | 1 2.640 6 GHz   | Mk                 | #Atten: 30 dB                  | IFGain:Low |                                     | -                     |
|                          | 7.77 dBm  |                    |                                |            | Ref Offset 11.4 dB<br>Ref 30.00 dBm | 10 dB/div             |
| Center Free              | A1  |                    |                                |            |                                     | 20.0                  |
| 1.51500000 GH            | MAN   |                    |                                |            |                                     | 0.00                  |
| Start Free               |   |                    |                                |            |                                     | 1D.D                  |
| 30.00000 MH:             | 110 00 25 1.10  |                    |                                |            |                                     | 30.0                  |
| Stop Free                | no Managarante  | would what what we | and and an and a second second |            | was the at is to preserve the walk. | 40.0                  |
| 3.000000000 GH           |   |                    |                                |            |                                     | 60.0                  |
| CF Step<br>297.000000 MH | Stop 3.000 GHz<br>500 ms (1001 pts)   | Sweep 3.           | .0 MHz                         | #VBW       |                                     | Start 0.03<br>#Res BW |
| Auto Mar                 | FUNCTION WALVE  | EURODOR WORK       | 7.77 dBm                       | 540 6 GHz  |                                     |                       |
| Freq Offse<br>0 Hi       |   |                    | 7.77 0011                      | and a data |                                     | 2<br>3<br>4           |
| Scale Type               |   |                    |                                |            |                                     | 5<br>6<br>7<br>8<br>9 |
| Log <u>Lir</u>           |   |                    |                                |            |                                     | 10                    |
|                          |   | 1.2.2.2.2          | н                              |            |                                     | *                     |
|                          |   | STATUS             |                                |            |                                     | 190                   |

DFT-s-OFDM Pi/2\_30MHz~3GHz\_Band41\_20+0MHz\_BPSK\_216\_0\_HighCH

| Bef Offset 11.4 dB         Mikri 2.682 2 GHz           0 Bddir         8.20 dBm           0 Bddir         8.20 dBm           0 Bddir         1           0 Bdir         1 <th>Keysight Sp</th> <th>ectrum Analyzer - 5</th> <th></th> <th>STATISTICS AND</th> <th></th> <th></th> <th>0 4 4</th>  | Keysight Sp                  | ectrum Analyzer - 5 |  | STATISTICS AND                        |                                      |                    | 0 4 4                                |
|---|------------------------------|---------------------|--|---------------------------------------|--------------------------------------|--------------------|--------------------------------------|
| Ref Offset 11.4 dB         Mkr1 2.68.2 GHz         Auto Tun           0 dBudding         Mkr1 2.68.2 GHz         6.20 dBm         Center Free           0 dBudding         0 dBudding         0 dBudding         0 dBudding         0 dBudding           0 dBudding         0 dBudiding   | Center F                     |                     | 000000 GHz                             |                                       | Avg Type: Log-Pwr                    | TRACE 1 2 3 4 5 6  |                                      |
| Start Press         Pres         Press         Press  | 10 dBldiv                    |                     | IFGain:Low                             |                                       | M                                    | r1 2.682 2 GHz     | Auto Tune                            |
| 101           | 20.0<br>10.0                 | Ker 50.00           |  |                                       |                                      | 1                  | Center Freq<br>1.515000000 GHz       |
| Stop Free         Stop Free <t< td=""><td>-10.0<br/>-20.0</td><td></td><td></td><td></td><td></td><td>DL1 -21.00 after</td><td>Start Free<br/>30.000000 MHz</td></t<> | -10.0<br>-20.0               |                     |  |                                       |                                      | DL1 -21.00 after   | Start Free<br>30.000000 MHz          |
| Res BW 1.0 MHz         #VBW 1.0 MHz         Sweep 3.600 ms (1001 pts)         207/00000 MH           201001011         2682 2 GHz         6.20 dBm         Feacinosi         Feacin   | 40.0                         | ware and an open    | alah merupan selata selanda selanda se | a dan salaman an an dag bar ya kata a | and the second and the second second | and Minamore       | Stop Free<br>3.000000000 GH:         |
| 05 (Dick Inter Col 1 2 682 2 GHz 6 20 dBm<br>3 N 1 7 2 682 2 GHz 6 20 dBm<br>6 6 6<br>6 7<br>8 8<br>8 1 1 1 1 2 682 2 GHz 6 20 dBm<br>8 0 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | Res BW                       | 1.0 MHz             | #V                                     |                                       |                                      | .600 ms (1001 pts) | CF Step<br>297.000000 MH<br>Auto Mar |
| 11 · · · · · · · · · · · · · · · · · ·  | 1 N 1<br>2<br>3              |                     | 2.682 2 GHz                            |                                       | FUNCTION FUNCTION WOTH               | FUNCTION VALUE     | Freq Offset<br>0 Ha                  |
|   | 6<br>7<br>8<br>9<br>10<br>11 |                     |  |                                       |                                      |                    | Scale Type                           |
|   | * *                          |                     |  | H.                                    |                                      |                    | L                                    |

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## Report No.: ER/2020/30174 Page 45 of 65



#### DFT-s-OFDM Pi/2\_3GHz~26GHz\_Band41\_20+80MHz\_BPSK\_1\_0\_LowCH

|                                     | and the second second second  | -      |   |                | CHARACTER ST |                                  |                            |  | Analyzer - Si       |          | eysight         |
|-------------------------------------|---|--------|---|----------------|--------------|----------------------------------|----------------------------|--|---------------------|----------|-----------------|
| Frequency                           | 9 PH 34 18, 2020<br>RACE 1 2 3 4 5 6<br>TYPE N WWWWWW<br>DET P NO NON |        | Log-Pwr                                     | Avg Ty         |              | Trig: Fre                        | GHz                        | 000000   | 11.500              | Freq     | nter            |
| Auto Tur                            | .669 GHz<br>1.84 dBm  |        | N   |                | 0 dB         | #Atten: 3                        | Gain:Low                   | 1.4 dB   | Offset 1<br>f 30.00 |          | 18/div          |
| Center Fre<br>11.50000000 GF        |   |        |   |                | Y            |                                  |                            |  |                     |          |                 |
| Start Fre<br>3.000000000 GF         | 0.1 -3120 Mg  |        |   |                |              |                                  |                            |  | A2                  |          |                 |
| Stop Fre<br>20.000000000 GF         | and the second second second  |        | مى يەرەمەللەر بىرىمە<br>مەرەمەمەللەر بىرىمە | and the second |              | of the second second             | S<br>Selection and the se  | and the second sec | Lan                 | Marria a | eest            |
| CF Ste<br>1.700000000 GF<br>Auto Ma | 20.000 GHz<br>s (1001 pts)  | 8.33 m | weep 2                                      |                |              | W 1.0 MHz                        | #VB                        |  | MHz                 | V 1.0    | rt 3.0<br>es Bl |
| Freq Offs<br>0 F                    | -   | -0     |   | CTOX F         | Bm<br>Bm     | -35.24 d<br>-39.08 d<br>-41.84 d | 30 GHz<br>12 GHz<br>69 GHz | 19.8   |                     |          | NNN             |
| Scale Typ                           |   |        |   |                |              |                                  |                            |  |                     |          |                 |
|                                     |   | 5      | STATUS                                      |                |              | н                                |                            |  |                     |          |                 |

|         | 2 BC                                 | SENSE:INT  | Avg Type: Log-Pwr  | 05:53:44 PN 3ul 18, 2020<br>TRACE 1 2 3 4 5 6   | Frequency  |
|---------|--------------------------------------|--|--|---|--|
| •       | PNO: Fast *<br>IFGain:Low            | #Atten: 30 dB  |  | DET P HIN IS N IS   | 183037-74  |
|         |                                      |  | N  | lkr3 7.779 GHz<br>-39.22 dBm  | Auto Tun   |
|         |                                      |  |  |   | Center Fre<br>11.500000000 GH  |
|         |                                      |  |  | CL1 21.00 mby   | Start Fre<br>3.000000000 GH  |
| and and | at million for the former the second | alan da alan an an a bandan an a   | erester marine and an erest  | ning her main water and the second   | Stop Fre<br>20.000000000 GH  |
|         | #VB                                  | W 1.0 MHz  | Sweep 28   | Stop 20.000 GHz<br>3.33 ms (1001 pts)   | CF Ste<br>1.700000000 GH   |
| 500.    | ×                                    |  | INCTION FUNCTION WOTH  | FUNCTION WALVE  | Auto Ma  |
| -       | 19.575 GHz<br>5.186 GHz<br>7.779 GHz | -35.65 dBm<br>-40.62 dBm<br>-39.22 dBm   |  |   | Freq Offse<br>0 H  |
|         |                                      |  |  |   | Scale Typ  |
|         |                                      |  |  |   | Log Li   |
|         | q 11.500                             | g 11.50000000 GHz<br>PNO: Fast<br>PNO: Fast<br>If Call.Low<br>Ref 00::est 11.4 dB<br>Ref 30.00 dBm<br>GHz<br>0 MHz<br>9 MHz<br>9 NHz<br>9 S75 GHz<br>5.186 GHz | III.500000000 GHz<br>PROLETATION THE Free Run<br>IF Gent control of the second seco | II.500000000 GHZ         Trig: Free Run<br>IFGenLow         Avg Type: Log-Pwr           Ref Offset 11.4 dB         Free Run<br>IFGenLow         No           Ref 30.00 dBm         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | Image: Second |

#### DFT-s-OFDM Pi/2\_3GHz~26GHz\_Band41\_20+80MHz\_BPSK\_1\_0\_HighCH

| 📥 Keynight Spe                   | ectrum Anal | yzer - Swept SA          |                           |  | -  |                         | - And A. A. S. A. S. A. S. A. |                     | 0.0                                    |
|----------------------------------|-------------|--------------------------|---------------------------|--|--|-------------------------|-------------------------------|---------------------|--|
| Center F                         | req 11.     | 500000000 C              |                           | Trig: Free Ru                          | Ave  | Type: Log-Pwr           | TYPE                          | 123456              | Frequency                              |
| 10 dB/div                        |             |                          | Gain:Low                  | #Atten: 30 dl                          |  |                         | Mkr3 7.8                      | 90 GHz              | Auto Tune                              |
| 200<br>10.0                      | Kel 3       | 0.00 dBm                 |                           |  |  |                         |                               |                     | Center Fred<br>11.500000000 GHz        |
| -1D.D<br>-20.0<br>-30.0          |             | 2                        | 2                         |  |  |                         |                               | 11 20 00 000        | Start Free<br>3.000000000 GHz          |
| -40.0                            | Andrea      | Connection of the second | and the second            | an di selandara de a                   | an the state of th | ويعينه والمحصر التواصين | and a substantial             | water               | Stop Free<br>20.000000000 GH:          |
| Start 3.00<br>#Res BW            |             | Iz                       | #VBI                      | W 1.0 MHz                              |  | Sweep 2                 | Stop 20.<br>8.33 ms (1        | 000 GHz<br>001 pts) | CF Step<br>1.700000000 GH:<br>Auto Mar |
| MAR MODE IN                      | 90 SCC      | ×                        |                           |  |  | FUNCTIONWOTH            | FUNCTIO                       | N WALLE             | man man                                |
| 1 N<br>2 N<br>3 N<br>4<br>5      | 1           | 5.20                     | 9 GHz<br>50 GHz<br>30 GHz | -35,33 dBm<br>-39,86 dBm<br>-42,17 dBm |  |                         |                               |                     | Freq Offsel<br>0 Ha                    |
| 4<br>5<br>6<br>7<br>8<br>9<br>10 |             |                          |                           |  |  |                         |                               |                     | Scale Type                             |
|                                  |             |                          |                           | H.                                     |  |                         |                               |                     |  |
| MSO                              |             |                          |                           |  |  | STATU                   | 5                             |                     |  |

| DFT-s-OFDM Pi/2_3GH:              | z~26GHz_Band               | 41_20+80MHz_B     | PSK_216_0_LowC           | Н     |
|-----------------------------------|----------------------------|-------------------|--------------------------|-------|
| ight Spectrum Analyzer - Swept SA | Construction of the second |                   |                          | 0     |
| NF 50 0 DC                        | SENSE:INT                  |                   | 05:49:38 PM 3ul 18, 2020 |       |
| er Freg 11.500000000 GHz          |                            | Avg Type: Log-Pwr | TRACE 1 2 3 6 5 6        | Frequ |
| PNO: Fast                         | Trig: Free Run             |                   | DET P N/N N/N N          |       |

Keynig UR R

| enter Freq 11.500000   | PNO: Fast Trig: Free Ri<br>#Atten: 30 d                              |   | DET P NIN NIN                           | Auto Tune                            |  |  |  |
|--|--|---|---|--------------------------------------|--|--|--|
| Ref Offset 11.4 dB Mkr3 7.669 GHz<br>10 dB/div Ref 30.00 dBm - 40.57 dBm |  |   |   |                                      |  |  |  |
| 20.0   |  |   |   | Center Free<br>11.500000000 GH       |  |  |  |
| 10.0<br>20.0<br>30.0 0 <sup>1</sup> 0 <sup>2</sup>                       |  |   | 01.1 -25.00 after                       | Start Free<br>3.000000000 GH         |  |  |  |
|  | energy allow a second second and the                                 | destrone descond the destroken that a registroken d | a a nga nga nga nga nga nga nga nga nga | Stop Free<br>20.000000000 GH         |  |  |  |
| Start 3.000 GHz<br>Res BW 1.0 MHz  | #VBW 1.0 MHz   | Sweep 28  | Stop 20.000 GHz<br>.33 ms (1001 pts)    | CF Ster<br>1.700000000 GH<br>Auto Ma |  |  |  |
| 1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 5                                     | 3.680 GHz -35.55 dBm<br>6.112 GHz -38.23 dBm<br>7.669 GHz -40.67 dBm |   |   | Freq Offse<br>0 H                    |  |  |  |
| 6<br>7<br>8<br>9<br>10<br>11   |  |   |   | Scale Type                           |  |  |  |
|  | 10   |   |   |                                      |  |  |  |

DFT-s-OFDM Pi/2\_3GHz~26GHz\_Band41\_20+80MHz\_BPSK\_216\_0\_MidCH

| Center Freq 11.500000000 GHz<br>PHOLFast         Trig: Freq Run<br>PHOLFast         Avg Type: Log-Pwr<br>PHOLFast         Trig: Freq Run<br>PHOLFast         Avg Type: Log-Pwr<br>PHOLFast         Trig: Freq Run<br>PhOLFast         Auto Tune           10 dBudiv         Ref 30.00 dBm         41.98 dBm         41.98 dBm         Auto Tune           20 dBudiv         Ref 30.00 dBm         41.98 dBm         11.50000000 GHz         11.50000000 GHz           20 dBudiv         Ref 30.00 dBm         51.9 mm         51.9 mm         30000 GHz         30000 GHz           20 dBudiv         Ref 30.00 dBm         51.9 mm         51.9 mm         51.9 mm         300000 GHz           20 dBudiv         Ref 30.00 dBm         51.9 mm         51.9 mm         51.9 mm         300000 GHz           20 dBudiv         Ref 30.00 dBm         51.9 mm         51.9 mm         51.9 mm         300000 GHz           3000 GHz         RES BW 1.0 MHz         #VBW 1.0 MHz         Stop 50.000 GHz         61.9 mm         1.000000 GHz           2 N 1 f         51.87 GHz         35.37 dBm         35.37 dBm         51.9 mm         61.9 mm         Freq 0ffset           3 N 1 f         51.80 GHz         39.3 dBm         52.80 GHz         52.80 GHz         61.82 GHz         1.43 B dBm           3 N 1 f         51.80 GHz         39.3  |                         | ectrum Analyzer - Swept  | SA                    | Contraction Sector       | 127                   |                                       |                                 |  |  |
|--|-------------------------|--|-----------------------|--------------------------|-----------------------|---------------------------------------|---------------------------------|--|--|
| IFGenet.11 /r         Auto Tune           0 dBdw/r         Ref 33.00 dBm         -41.98 dBm           200         -41.98 dBm         -41.98 dBm           201         -41.98 dBm         -41.98 dBm           202         -41.98 dBm         -41.98 dBm           203         -41.98 dBm         -41.98 dBm           204         -41.98 dBm         -41.98 dBm           205         -41.98 dBm         -41.98 dBm           206         -41.98 dBm         -41.98 dBm           207         -41.98 dBm         -41.98 dBm           208         -41.98 dBm         -41.98 dBm           200000000 GHz         -41.98 dBm         -41.9   | Center F                |  | 0000 GHz              |                          | Avg Type: Log-Pwr     | TRACE 1 2 3 4 5 6                     | Frequency                       |  |  |
| Content         Content <t< th=""><th>-</th><th colspan="8">Ref Offset 11.4 dB Mkr3 7.779 GHz<br/>10 dB/div Ref 30.00 dBm - 41.98 dBm</th></t<>  | -                       | Ref Offset 11.4 dB Mkr3 7.779 GHz<br>10 dB/div Ref 30.00 dBm - 41.98 dBm |                       |                          |                       |                                       |                                 |  |  |
| Image: Start Freq         Start Freq           300           | 20.0<br>10.0            | Ref 30.00 de   | sm                    |                          |                       |                                       | Center Freq<br>11.500000000 GHz |  |  |
| Stor         Freq         Stor         Stor <th< td=""><td>-10.0</td><td>A2</td><td></td><td></td><td></td><td></td><td>Start Freq<br/>3.000000000 GHz</td></th<>  | -10.0                   | A2   |                       |                          |                       |                                       | Start Freq<br>3.000000000 GHz   |  |  |
| RRes BW 1.0 MHz         #VBW 1.0 MHz         Sweep         28.33 ms (1001 pts)         1.7000000 GHz           10000000 GHz         1000000 GHz         10000000 GHz         100000000 GHz         1000000000 GHz         1000000000 GHz         10000000000 GHz         1000000000 GHz         1000000000 GHz         1000000000000000000000000000000000000  | 50.0                    |  | and in the mole hands | nin-variandreigen de     |                       | mene                                  | Stop Freq<br>20.000000000 GHz   |  |  |
| CONTROL CONTRO |                         |  | #VBW                  | / 1.0 MHz                | Sweep 2               | Stop 20.000 GHz<br>8.33 ms (1001 pts) | 1.700000000 GHz                 |  |  |
| 11 ***********************************   | 1 N 1<br>2 N 1          | 2 200<br>1<br>1  | 5.186 GHz             | -35.37 dBm<br>-39.32 dBm | INCTION FUNCTION WOTH | FUNCTION WILLIE                       | Freq Offset                     |  |  |
|  | 7<br>8<br>9<br>10<br>11 |  |                       |                          |                       |                                       | Scale Type                      |  |  |
|  |                         |  |                       | н                        | 10000                 | ind the                               |                                 |  |  |

DFT-s-OFDM Pi/2\_3GHz~26GHz\_Band41\_20+80MHz\_BPSK\_216\_0\_HighCH

| 🚢 Keynight Sp                  |        | malyzer - Swep         |  |          | Contraction of the A                   |   |                   | - AND |            | -0- di 🕰                              |
|--------------------------------|--------|------------------------|--|----------|--|---|-------------------|---|------------|---------------------------------------|
| Center F                       | Freq 1 | 11.50000               | 00000 GHz                                | Fast -   | Trig: Free Run                         | Avg Type:   | Log-Pwr           | 05:57:17 PH 3<br>TRACE<br>TYPE            | # 18, 2020 | Frequency                             |
| 10 dB/div                      |        | Offset 11.4<br>30.00 d | IFGain<br>4 dB                           | Low      | #Atten: 30 dB                          |   | N                 | Akr3 7.89                                 |            | Auto Tune                             |
| 20 0<br>10.0                   | KCI    | 30.00 0                |  |          |  |   |                   |   |            | Center Fred<br>11.500000000 GHz       |
| -10.0                          |        |                        |  |          |  |   |                   |   | AT.        | Start Free<br>3.000000000 GH          |
| 40.0 mar <sup>44</sup><br>50.0 | -      | Que en en              | n sa | -por and | and and a second second                | and a state of the second s | and the prove the | ndiplosanth month                         | and source | Stop Free<br>20.000000000 GH:         |
| Start 3.0<br>Res BW            | 1.0 M  | ЛНZ                    |  | #VBW     | 1.0 MHz                                | S   |                   | Stop 20.0<br>8.33 ms (10                  | 01 pts)    | CF Step<br>1.700000000 GH<br>Auto Mar |
| 1 N<br>2 N<br>3 N<br>4<br>5    |        |                        | ×<br>19.031 G<br>5.260 G<br>7.890 G      | Hz       | -35.68 dBm<br>-41.39 dBm<br>-41.16 dBm | NCTION  |                   | FUNCTION                                  | *          | Freq Offset<br>0 Hz                   |
| 4<br>5<br>7<br>8<br>9<br>10    |        |                        |  |          |  |   |                   |   |            | Scale Type                            |
| *                              |        |                        |  |          | н                                      |   | stane             | 1   | 1 (* )     |                                       |

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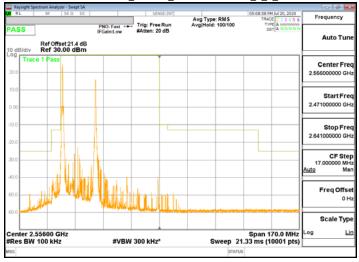
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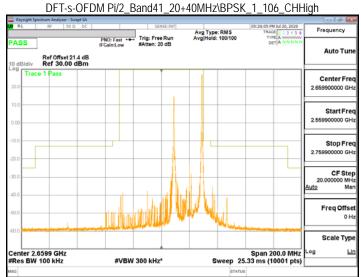
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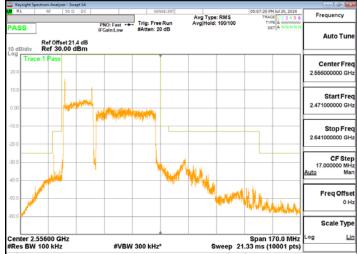
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Mask DFT-s-OFDM Pi/2 Band41 20+40MHz\BPSK 1 0 CHLow

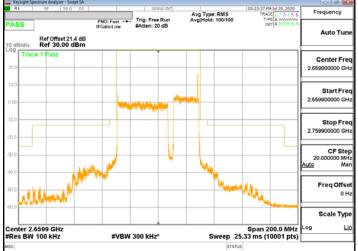




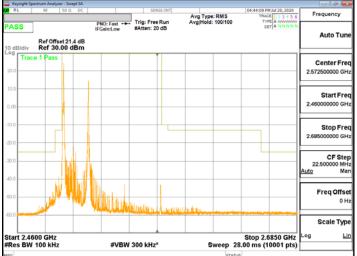
DFT-s-OFDM Pi/2 Band41 20+40MHz\BPSK 100 0 CHLow



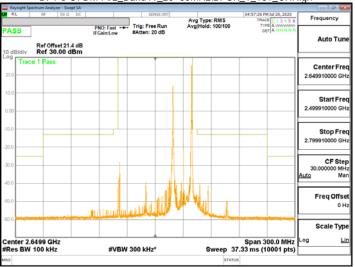
DFT-s-OFDM Pi/2 Band41 20+40MHz\BPSK 100 0 CHHigh







DFT-s-OFDM Pi/2 Band41 20+60MHz\BPSK 1 161 CHHigh



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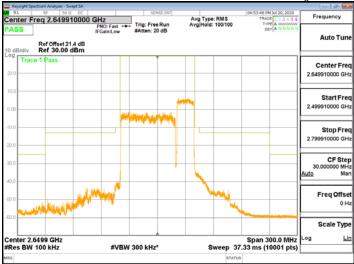


## Report No.: ER/2020/30174 Page 47 of 65

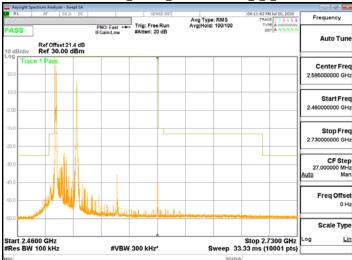
## DFT-s-OFDM Pi/2\_Band41\_20+60MHz\BPSK\_162\_0\_CHLow



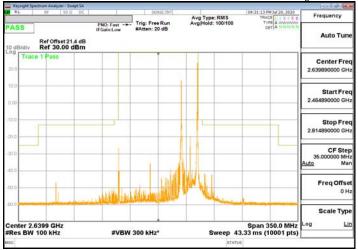
DFT-s-OFDM Pi/2\_Band41\_20+60MHz\BPSK\_162\_0\_CHHigh



## DFT-s-OFDM Pi/2\_Band41\_20+80MHz\BPSK\_1\_0\_CHLow



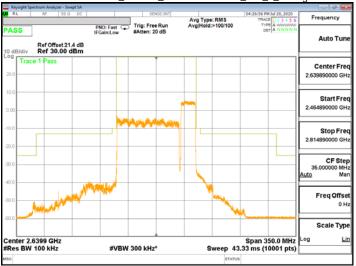
DFT-s-OFDM Pi/2\_Band41\_20+80MHz\BPSK\_1\_216\_CHHigh



### DFT-s-OFDM Pi/2\_Band41\_20+80MHz\BPSK\_216\_0\_CHLow



### DFT-s-OFDM Pi/2 Band41 20+80MHz\BPSK 216 0 CHHigh



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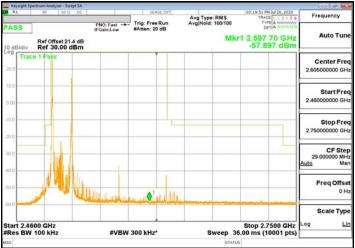
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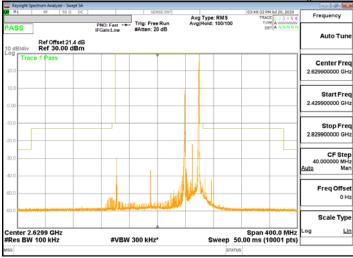


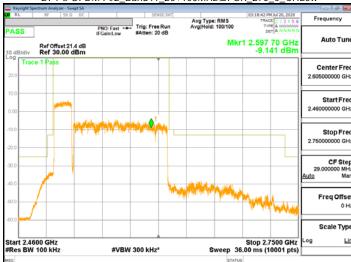
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## DFT-s-OFDM Pi/2\_Band41\_20+100MHz\BPSK\_1\_0\_CHLow



DFT-s-OFDM Pi/2\_Band41\_20+100MHz\BPSK\_1\_272\_CHHigh



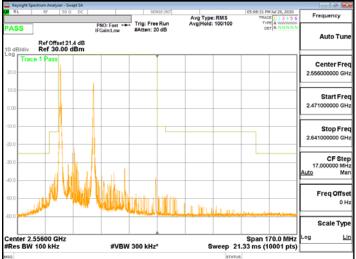


### DFT-s-OFDM Pi/2\_Band41\_20+100MHz\BPSK\_270\_0\_CHLow

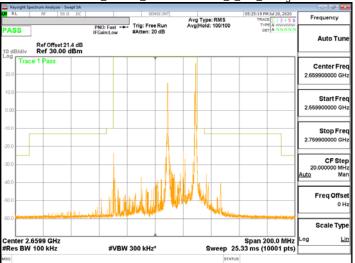
DFT-s-OFDM Pi/2\_Band41\_20+100MHz\BPSK\_270\_0\_CHHigh



CP-OFDM\_Band41\_20+40MHz\QPSK\_1\_0\_CHLow



### CP-OFDM\_Band41\_20+40MHz\QPSK\_1\_105\_CHHigh



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開きたう方式就好 \* 山牧古雪素催買別風之(後加買見)\* 同時山(後加運床留)20人 \* 年報音大空本公司音曲百可) \* 中面の方後後\* This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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 f (886-2) 2298-0488
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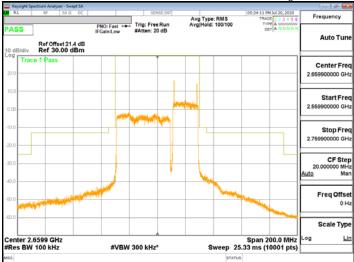


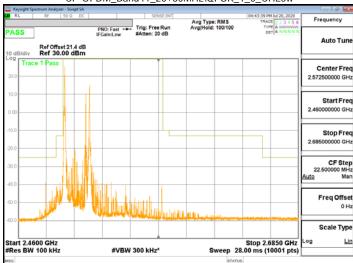
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## CP-OFDM\_Band41\_20+40MHz\QPSK\_106\_0\_CHLow



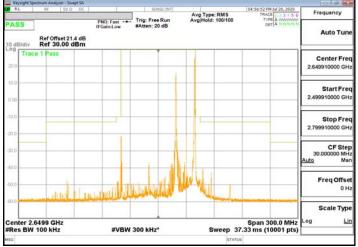
## CP-OFDM\_Band41\_20+40MHz\QPSK\_106\_0\_CHHigh





### CP-OFDM\_Band41\_20+60MHz\QPSK\_1\_0\_CHLow

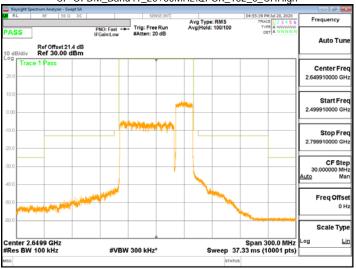
CP-OFDM\_Band41\_20+60MHz\QPSK\_1\_161\_CHHigh



### CP-OFDM\_Band41\_20+60MHz\QPSK\_162\_0\_CHLow



## CP-OFDM Band41 20+60MHz\QPSK 162 0 CHHigh



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