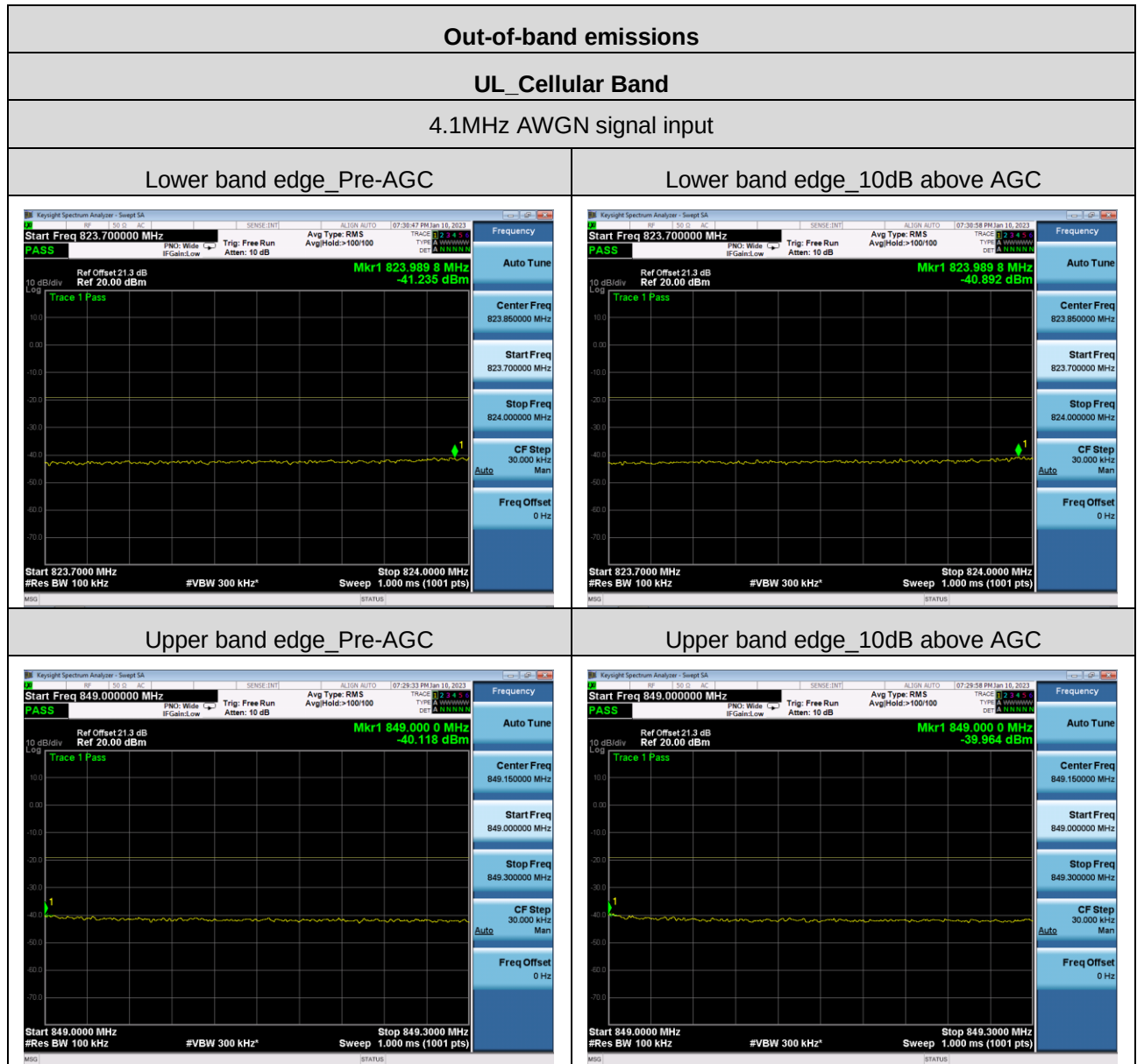




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Guangzhou Branch Technical Services EEC Laboratory

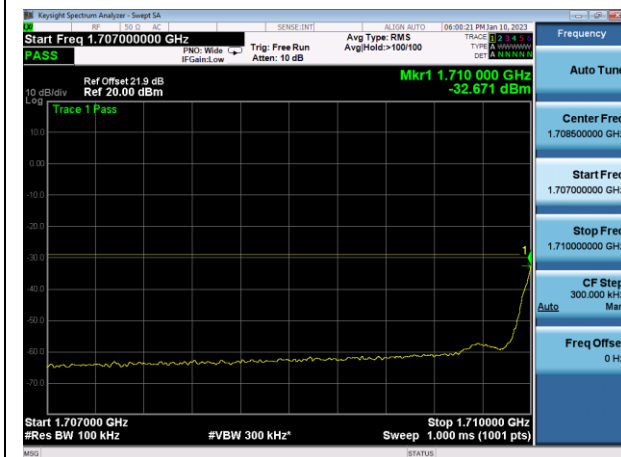
No.198 Kazhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 [www.sgs.com](http://www.sgs.com)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### Out-of-band emissions

#### UL\_AWS-1 Band

#### GSM signal input

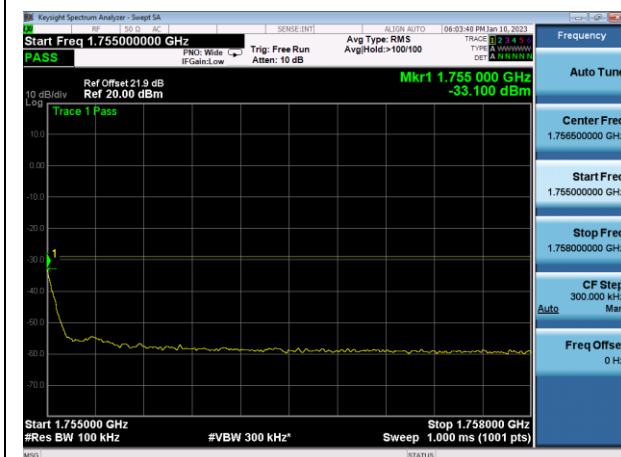
##### Lower band edge\_Pre-AGC



##### Lower band edge\_10dB above AGC



##### Upper band edge\_Pre-AGC



##### Upper band edge\_10dB above AGC



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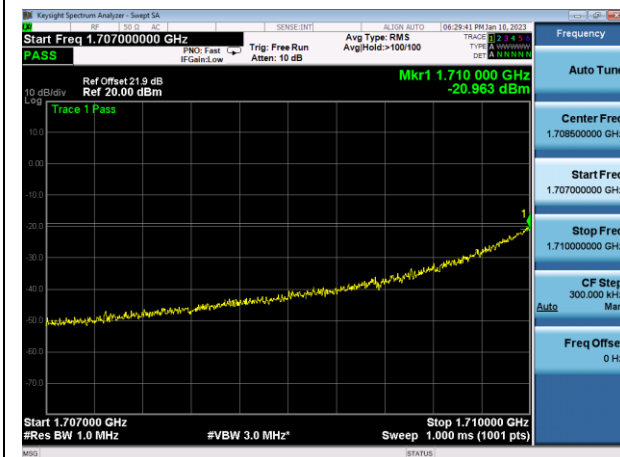
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### Out-of-band emissions

#### UL\_AWS-1 Band

1.25MHz AWGN signal input

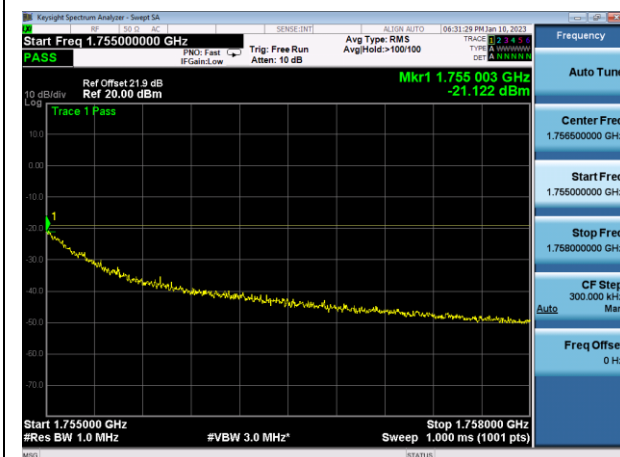
#### Lower band edge\_Pre-AGC



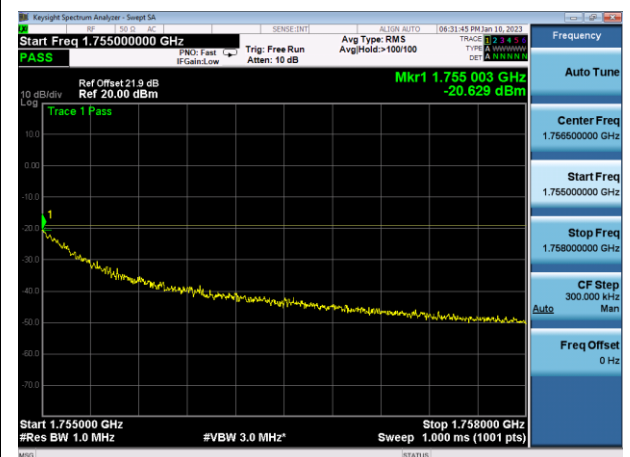
#### Lower band edge\_10dB above AGC



#### Upper band edge\_Pre-AGC



#### Upper band edge\_10dB above AGC



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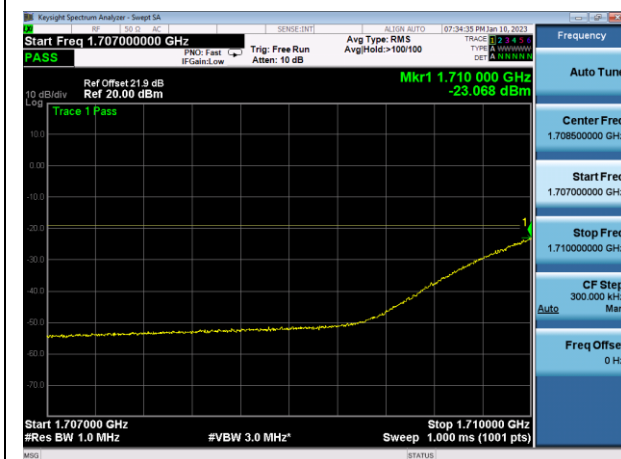
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### Out-of-band emissions

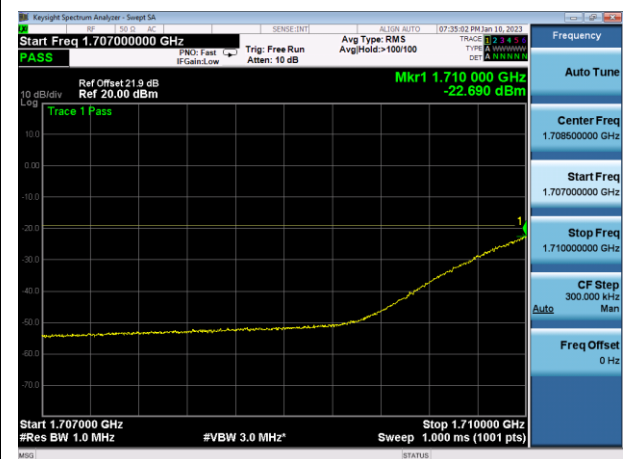
#### UL\_AWS-1 Band

#### 4.1MHz AWGN signal input

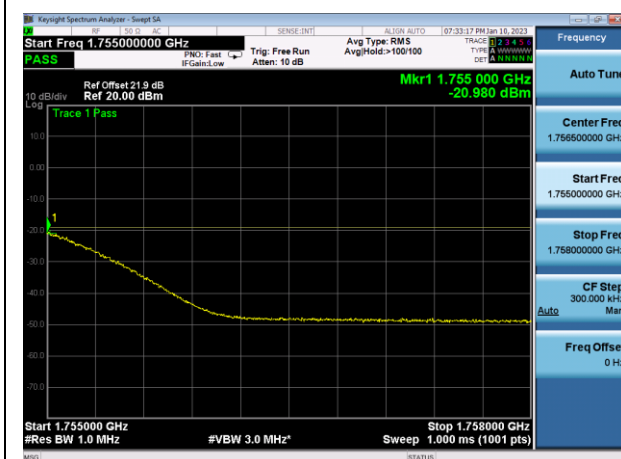
##### Lower band edge\_Pre-AGC



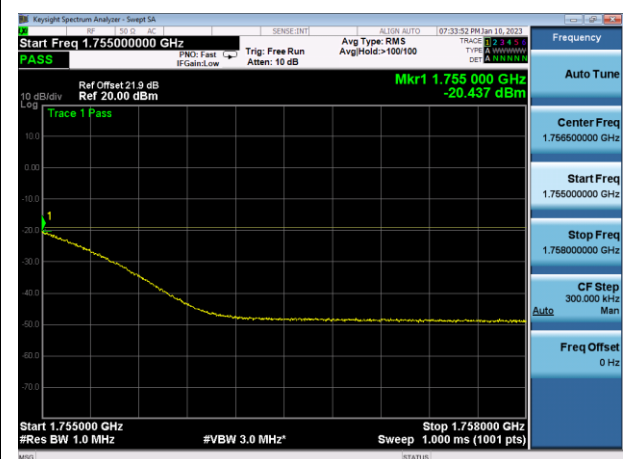
##### Lower band edge\_10dB above AGC



##### Upper band edge\_Pre-AGC



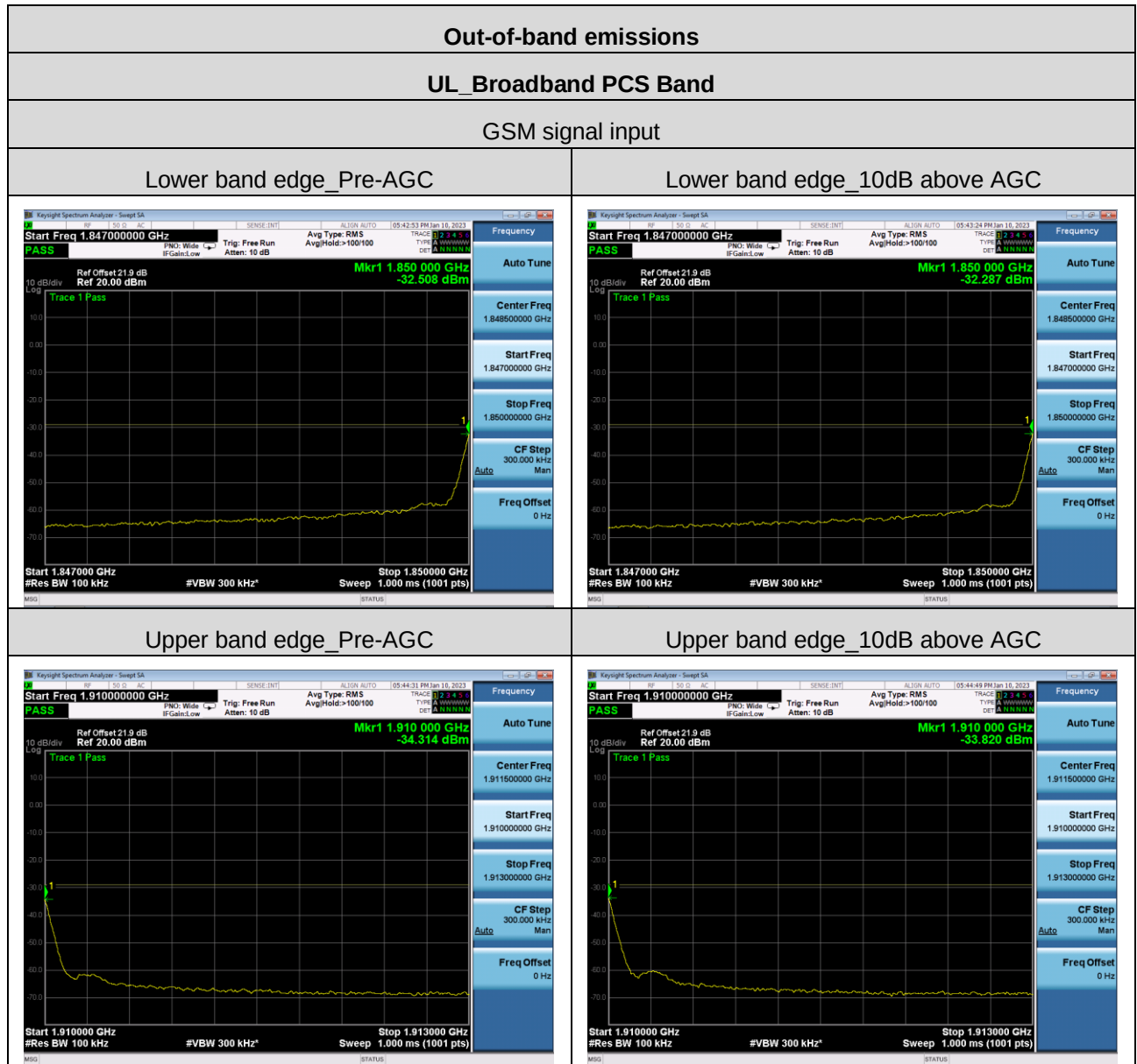
##### Upper band edge\_10dB above AGC



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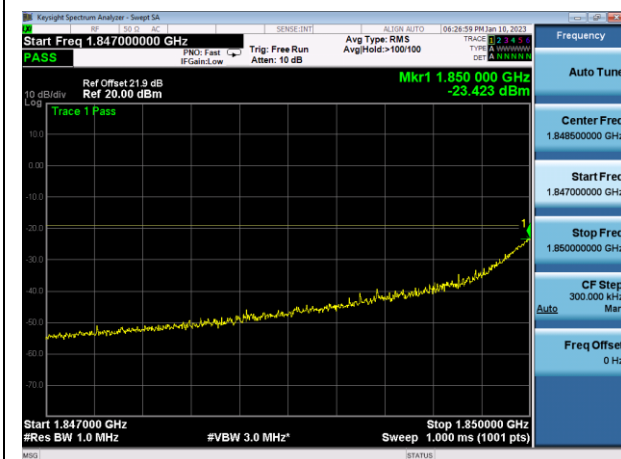
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### Out-of-band emissions

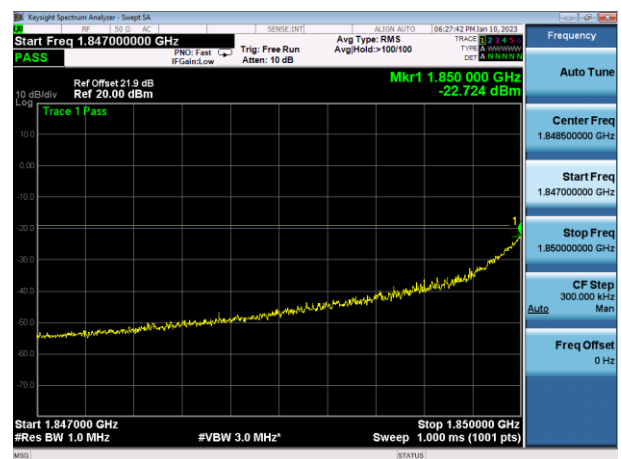
#### UL\_Broadband PCS Band

#### 1.25MHz AWGN signal input

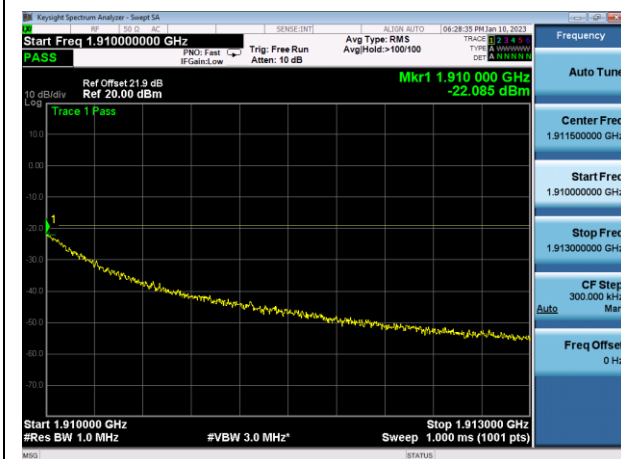
##### Lower band edge\_Pre-AGC



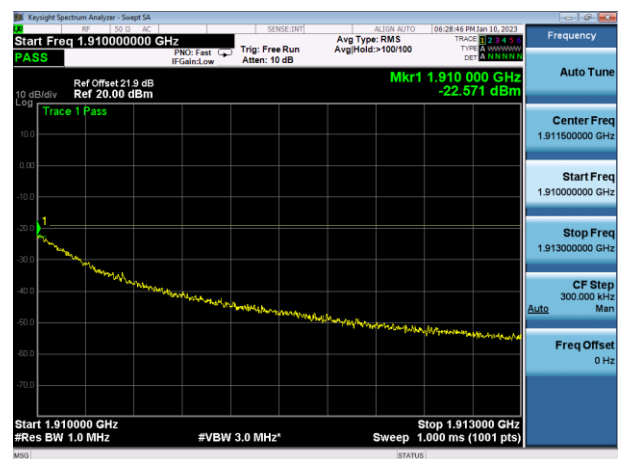
##### Lower band edge\_10dB above AGC



##### Upper band edge\_Pre-AGC



##### Upper band edge\_10dB above AGC



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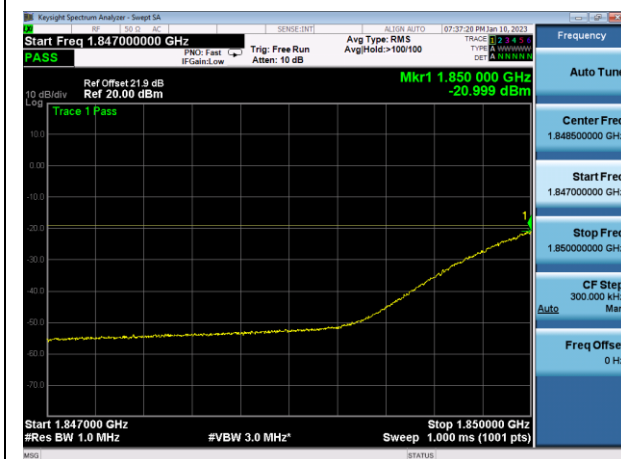
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### Out-of-band emissions

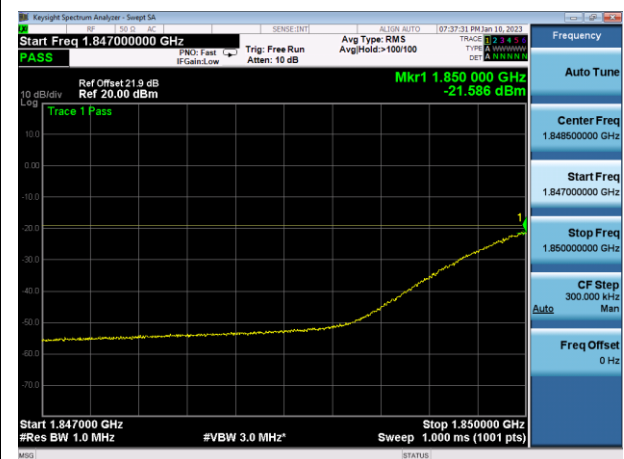
#### UL\_Broadband PCS Band

#### 4.1MHz AWGN signal input

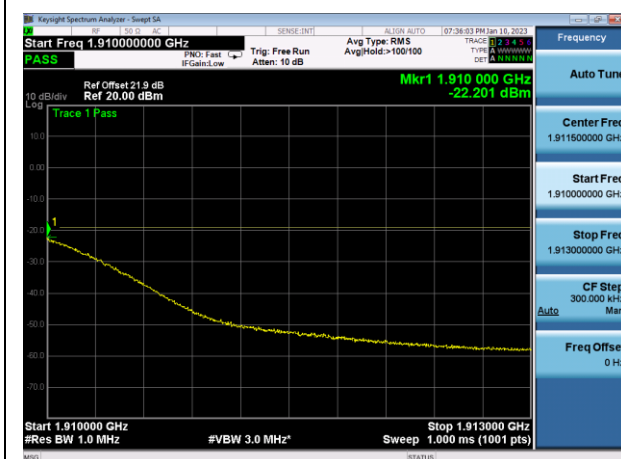
##### Lower band edge\_Pre-AGC



##### Lower band edge\_10dB above AGC



##### Upper band edge\_Pre-AGC



##### Upper band edge\_10dB above AGC



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## 6 Conducted spurious emissions

| Conducted spurious emissions |               |              |         |                       |        |                        |             |         |
|------------------------------|---------------|--------------|---------|-----------------------|--------|------------------------|-------------|---------|
| Path                         | Band          | Input Signal |         | Frequency Range (MHz) | RBW    | Worst Test Level (dBm) | Limit (dBm) | Verdict |
| DL                           | 700MHz        | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -52.43                 | ≤-19        | PASS    |
|                              |               |              |         | 30-727.9              | 100kHz | -36.26                 |             | PASS    |
|                              |               |              |         | 756.1-1000            | 100kHz | -39.67                 |             | PASS    |
|                              |               |              |         | 1000-7560             | 1MHz   | -44.82                 |             | PASS    |
|                              | Upper 700MHz  | AWGN         | Pre-AGC | 763-775               | 6.2kHz | -76.64                 | ≤-52        | PASS    |
|                              |               |              |         | 793-805               | 6.2kHz | -71.97                 |             | PASS    |
|                              | Cellular      | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -53.84                 | ≤-19        | PASS    |
|                              |               |              |         | 30-868.9              | 100kHz | -41.13                 |             | PASS    |
|                              |               |              |         | 894.1-1000            | 100kHz | -40.84                 |             | PASS    |
|                              |               |              |         | 1000-8940             | 1MHz   | -38.47                 |             | PASS    |
|                              | AWS-1         | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -53.32                 | ≤-19        | PASS    |
|                              |               |              |         | 30-1000               | 100kHz | -47.83                 |             | PASS    |
|                              |               |              |         | 1000-2109             | 1MHz   | -24.45                 |             | PASS    |
|                              |               |              |         | 2156-21550            | 1MHz   | -27.10                 |             | PASS    |
|                              | Broadband PCS | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -55.46                 | ≤-19        | PASS    |
|                              |               |              |         | 30-1000               | 100kHz | -46.73                 |             | PASS    |
|                              |               |              |         | 1000-1929             | 1MHz   | -23.54                 |             | PASS    |
|                              |               |              |         | 1991-19900            | 1MHz   | -25.81                 |             | PASS    |



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| Conducted spurious emissions                                                                   |               |              |         |                       |        |                        |             |         |
|------------------------------------------------------------------------------------------------|---------------|--------------|---------|-----------------------|--------|------------------------|-------------|---------|
| Path                                                                                           | Band          | Input Signal |         | Frequency Range (MHz) | RBW    | Worst Test Level (dBm) | Limit (dBm) | Verdict |
| UL                                                                                             | Lower 700MHz  | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -56.82                 | ≤-19        | PASS    |
|                                                                                                |               |              |         | 30-697.9              | 100kHz | -27.93                 |             | PASS    |
|                                                                                                |               |              |         | 716.1-1000            | 100kHz | -36.82                 |             | PASS    |
|                                                                                                |               |              |         | 1000-7160             | 1MHz   | -43.54                 |             | PASS    |
|                                                                                                | Upper 700MHz  | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -57.83                 | ≤-19        | PASS    |
|                                                                                                |               |              |         | 30-776.9              | 100kHz | -41.23                 |             | PASS    |
|                                                                                                |               |              |         | 787.1-1000            | 100kHz | -44.73                 |             | PASS    |
|                                                                                                |               |              |         | 1000-7870             | 1MHz   | -46.67                 |             | PASS    |
|                                                                                                |               |              |         | 763-775               | 6.2kHz | -80.14                 | ≤-52        | PASS    |
|                                                                                                |               |              |         | 793-805               | 6.2kHz | -77.76                 |             | PASS    |
|                                                                                                | Cellular      | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -57.33                 | ≤-19        | PASS    |
|                                                                                                |               |              |         | 30-823.9              | 100kHz | -49.87                 |             | PASS    |
|                                                                                                |               |              |         | 849.1-1000            | 100kHz | -41.32                 |             | PASS    |
|                                                                                                |               |              |         | 1000-8490             | 1MHz   | -40.89                 |             | PASS    |
|                                                                                                | AWS-1         | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -54.68                 | ≤-19        | PASS    |
|                                                                                                |               |              |         | 30-1000               | 100kHz | -45.82                 |             | PASS    |
|                                                                                                |               |              |         | 1000-1709             | 1MHz   | -25.35                 |             | PASS    |
|                                                                                                |               |              |         | 1756-17550            | 1MHz   | -23.76                 |             | PASS    |
|                                                                                                | Broadband PCS | AWGN         | Pre-AGC | 0.009-30              | 100kHz | -56.84                 | ≤-19        | PASS    |
|                                                                                                |               |              |         | 30-1000               | 100kHz | -48.75                 |             | PASS    |
|                                                                                                |               |              |         | 1000-1849             | 1MHz   | -24.89                 |             | PASS    |
|                                                                                                |               |              |         | 1911-19100            | 1MHz   | -26.71                 |             | PASS    |
| Remark:<br>Refer to clause 5 of this Appendix for more details about spurious emissions limit. |               |              |         |                       |        |                        |             |         |



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## 7 Noise limit

| Maximum transmitter Noise Power Level |               |            |                       |                 |         |
|---------------------------------------|---------------|------------|-----------------------|-----------------|---------|
| Path                                  | Band          | EUT Status | Noise Level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| DL                                    | 700MHz        | Power On   | -48.73                | ≤-45.51         | PASS    |
|                                       |               | Power Off  | -81.85                | ≤-70            | PASS    |
|                                       | Cellular      | Power On   | -47.90                | ≤-44.05         | PASS    |
|                                       |               | Power Off  | -81.55                | ≤-70            | PASS    |
|                                       | AWS-1         | Power On   | -41.52                | ≤-37.73         | PASS    |
|                                       |               | Power Off  | -79.49                | ≤-70            | PASS    |
|                                       | Broadband PCS | Power On   | -41.19                | ≤-37.02         | PASS    |
|                                       |               | Power Off  | -79.19                | ≤-70            | PASS    |
| UL                                    | Lower 700MHz  | Power On   | -47.40                | ≤-45.51         | PASS    |
|                                       |               | Power Off  | -81.53                | ≤-70            | PASS    |
|                                       | Upper 700MHz  | Power On   | -47.24                | ≤-44.64         | PASS    |
|                                       |               | Power Off  | -80.96                | ≤-70            | PASS    |
|                                       | Cellular      | Power On   | -48.17                | ≤-44.05         | PASS    |
|                                       |               | Power Off  | -81.95                | ≤-70            | PASS    |
|                                       | AWS-1         | Power On   | -46.65                | ≤-37.73         | PASS    |
|                                       |               | Power Off  | -80.96                | ≤-70            | PASS    |
|                                       | Broadband PCS | Power On   | -46.57                | ≤-37.02         | PASS    |
|                                       |               | Power Off  | -79.24                | ≤-70            | PASS    |



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| Variable Uplink Noise Power Level |              |            |                       |                 |         |
|-----------------------------------|--------------|------------|-----------------------|-----------------|---------|
| Path                              | Band         | RSSI (dBm) | Noise Level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| UL                                | Lower 700MHz | -90        | -47.40                | ≤-45.51         | PASS    |
|                                   |              | -80        | -47.40                | ≤-45.51         | PASS    |
|                                   |              | -70        | -47.40                | ≤-45.51         | PASS    |
|                                   |              | -65        | -56.14                | ≤-45.51         | PASS    |
|                                   |              | -58        | -55.32                | ≤-48.00         | PASS    |
|                                   |              | -40        | -65.56                | ≤-61.00         | PASS    |
|                                   | Upper 700MHz | -90        | -47.24                | ≤-44.64         | PASS    |
|                                   |              | -80        | -47.24                | ≤-44.64         | PASS    |
|                                   |              | -70        | -47.24                | ≤-44.64         | PASS    |
|                                   |              | -63        | -55.27                | ≤-44.64         | PASS    |
|                                   |              | -57        | -56.73                | ≤-52.00         | PASS    |
|                                   |              | -44        | -66.95                | ≤-57.00         | PASS    |
|                                   | Cellular     | -90        | -48.17                | ≤-44.05         | PASS    |
|                                   |              | -80        | -48.17                | ≤-44.05         | PASS    |
|                                   |              | -70        | -48.17                | ≤-44.05         | PASS    |
|                                   |              | -60        | -48.17                | ≤-44.05         | PASS    |
|                                   |              | -55        | -57.73                | ≤-48.00         | PASS    |
|                                   |              | -39        | -69.48                | ≤-57.00         | PASS    |
|                                   | AWS-1        | -80        | -46.65                | ≤-37.73         | PASS    |
|                                   |              | -70        | -46.65                | ≤-37.73         | PASS    |
|                                   |              | -62        | -46.65                | ≤-41.00         | PASS    |
|                                   |              | -58        | -57.83                | ≤-43.00         | PASS    |
|                                   |              | -51        | -66.93                | ≤-62.00         | PASS    |
|                                   |              | -43        | -69.26                | ≤-65.00         | PASS    |

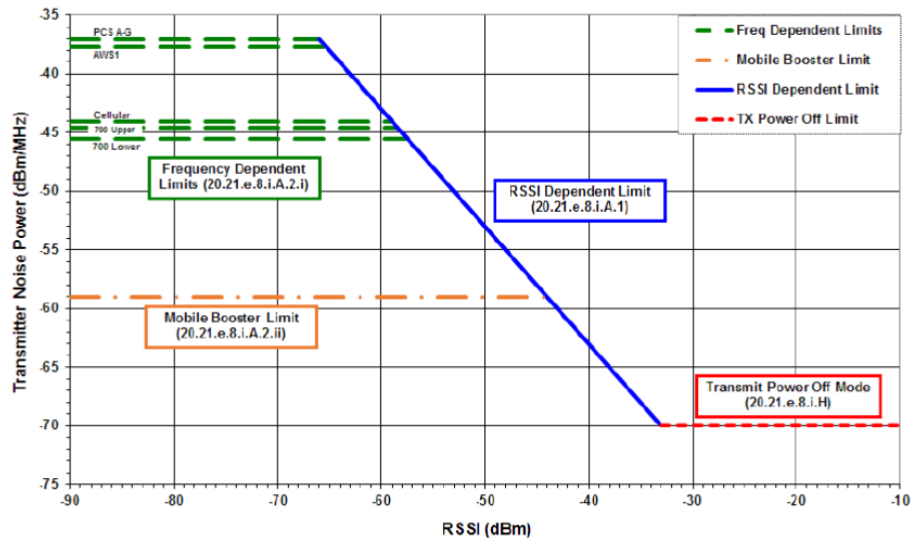


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| Variable Uplink Noise Power Level |               |            |                       |                 |         |
|-----------------------------------|---------------|------------|-----------------------|-----------------|---------|
| Path                              | Band          | RSSI (dBm) | Noise Level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| UL                                | Broadband PCS | -90        | -46.57                | $\leq -37.02$   | PASS    |
|                                   |               | -80        | -46.57                | $\leq -37.02$   | PASS    |
|                                   |               | -70        | -46.57                | $\leq -37.02$   | PASS    |
|                                   |               | -61        | -57.35                | $\leq -39.00$   | PASS    |
|                                   |               | -55        | -54.64                | $\leq -46.00$   | PASS    |
|                                   |               | -47        | -63.46                | $\leq -61.00$   | PASS    |

Remark:



According to KDB 935210 D03 v04r04 appendix D, the RSSI-dependent region can be calculated:

- for Lower 700MHz, the RSSI-dependent region is -57.49 dBm to -33 dBm
- for Upper 700MHz, the RSSI-dependent region is -58.36 dBm to -33 dBm
- for Cellular, the RSSI-dependent region is -58.95 dBm to -33 dBm
- for AWS-1, the RSSI-dependent region is -65.27 dBm to -33 dBm
- for Broadband PCS, the RSSI-dependent region is -65.99 dBm to -33 dBm



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| Variable Uplink Noise Timing |               |          |           |         |
|------------------------------|---------------|----------|-----------|---------|
| Path                         | Band          | Time (s) | Limit (s) | Verdict |
| UL                           | Lower 700MHz  | 0.18     | ≤3        | PASS    |
|                              | Upper 700MHz  | 0.12     | ≤3        | PASS    |
|                              | Cellular      | 0.05     | ≤3        | PASS    |
|                              | AWS-1         | 0.02     | ≤3        | PASS    |
|                              | Broadband PCS | 0.02     | ≤3        | PASS    |



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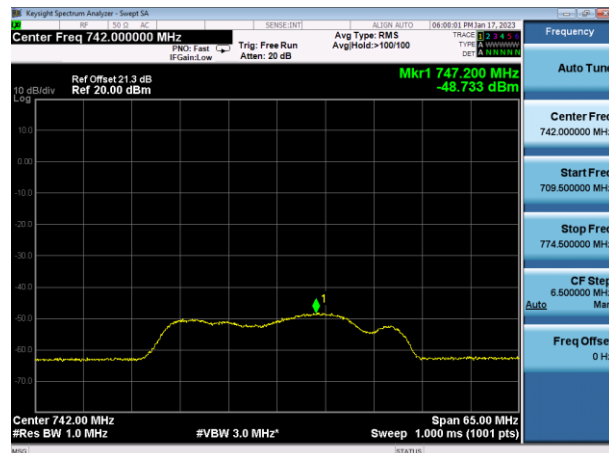
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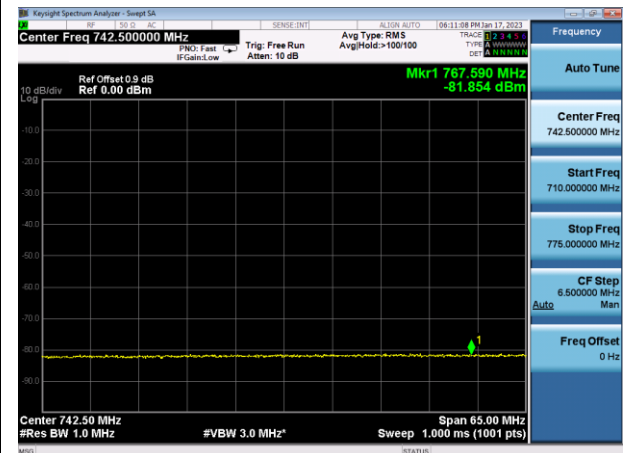
### Maximum transmitter Noise Power Level

#### DL\_700MHz Band

##### Power on

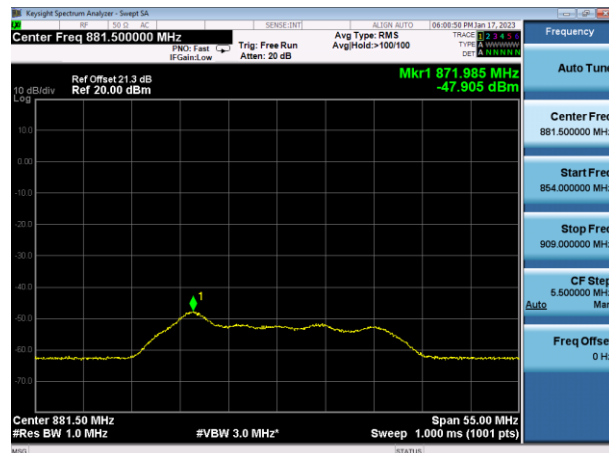


##### Power off

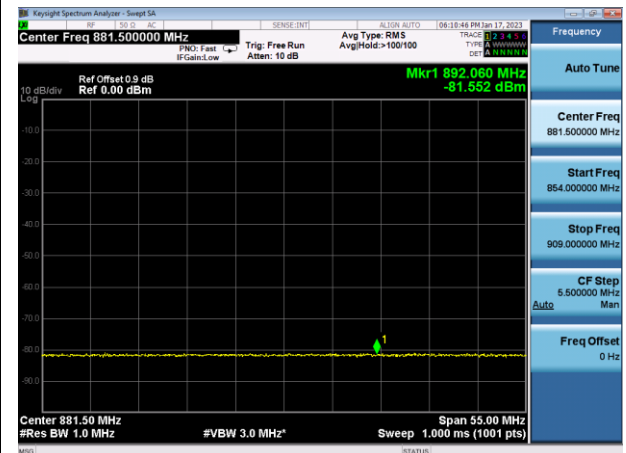


#### DL\_Cellular Band

##### Power on



##### Power off



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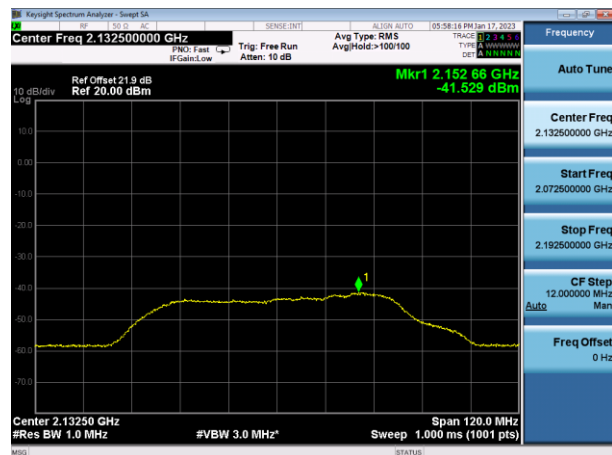
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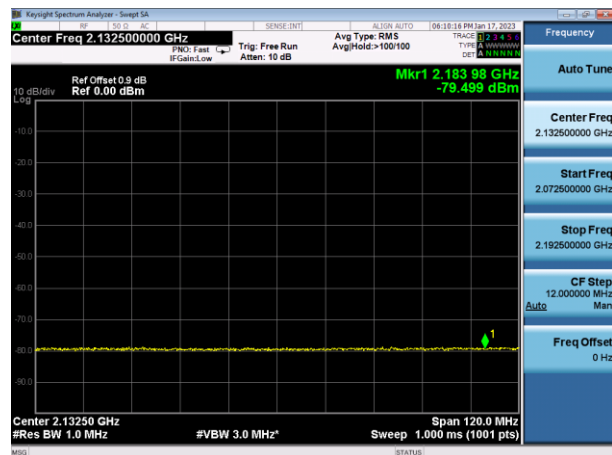
### Maximum transmitter Noise Power Level

#### DL\_AWS-1 Band

##### Power on

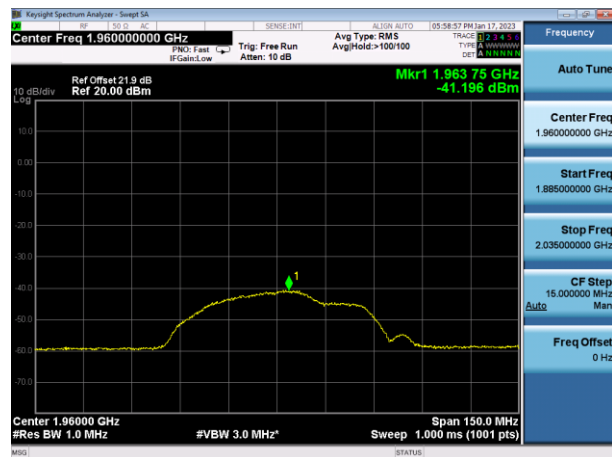


##### Power off

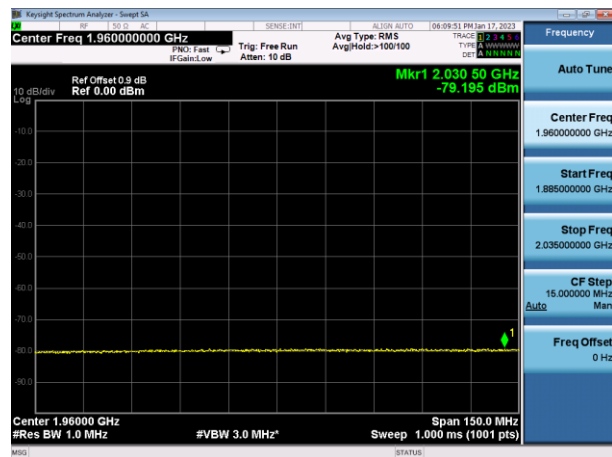


#### DL\_Broadband PCS Band

##### Power on



##### Power off



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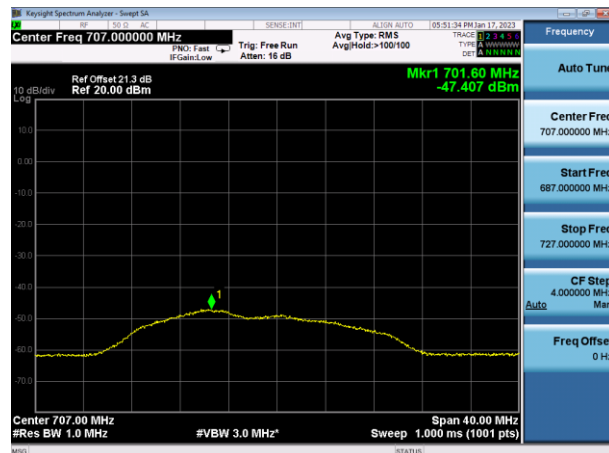
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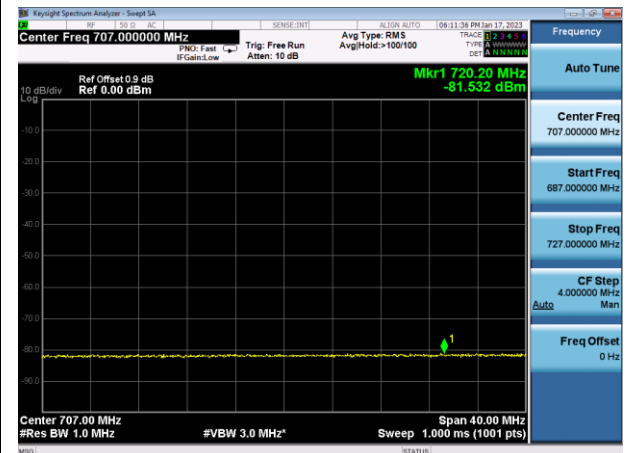
### Maximum transmitter Noise Power Level

#### UL\_Lower 700MHz Band

Power on

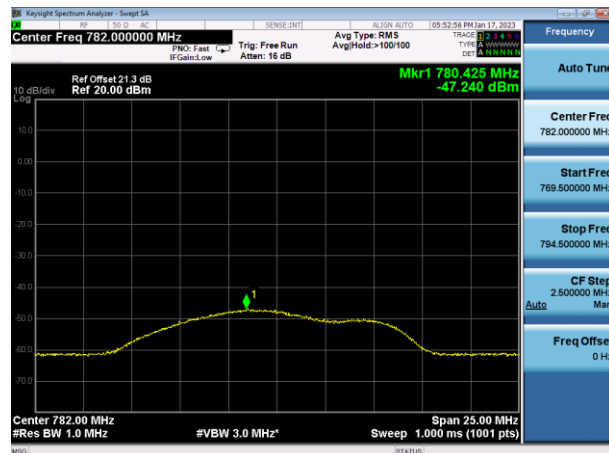


Power off

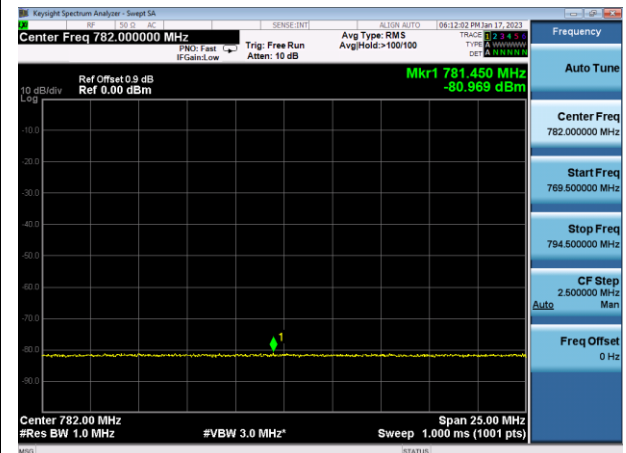


#### UL\_Upper 700MHz Band

Power on



Power off



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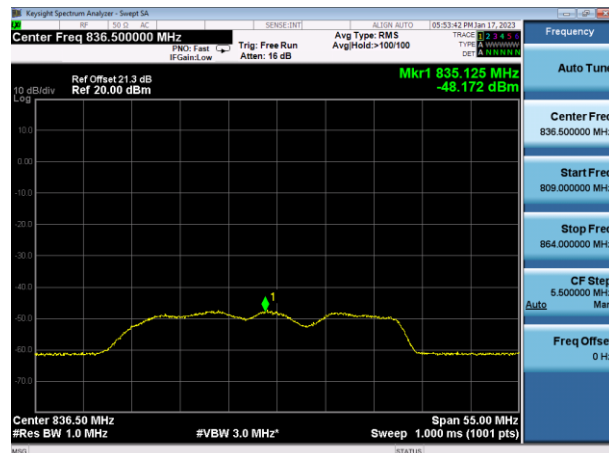
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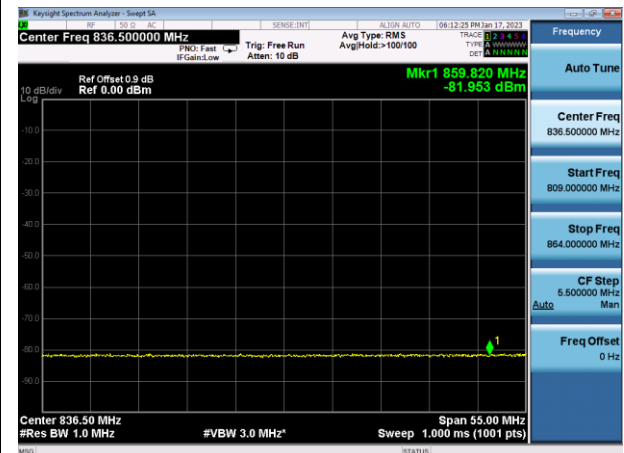
### Maximum transmitter Noise Power Level

#### UL\_Cellular Band

##### Power on

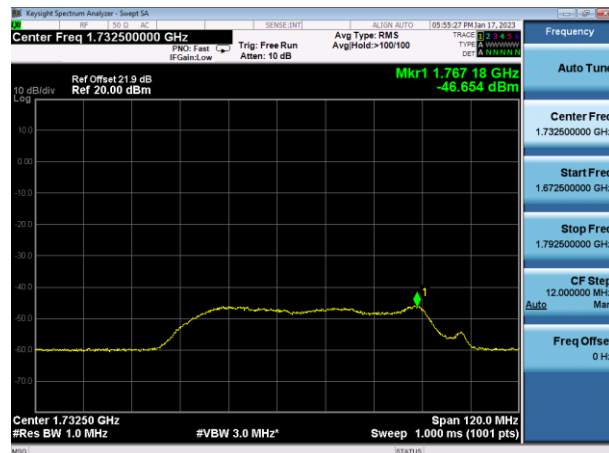


##### Power off

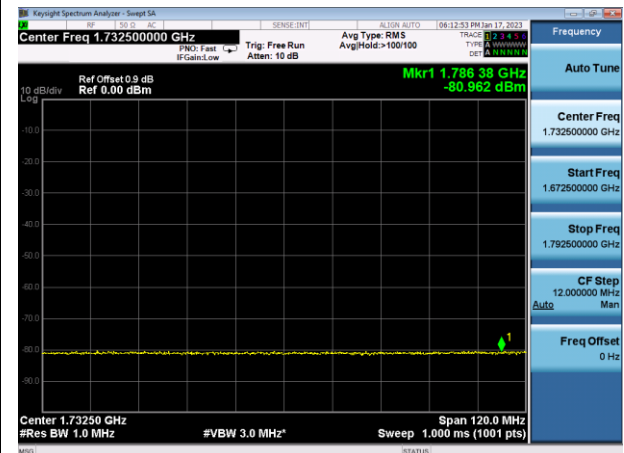


#### UL\_AWS-1 Band

##### Power on



##### Power off



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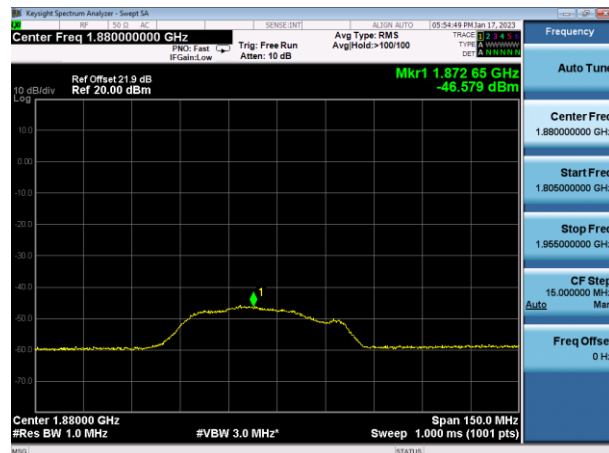
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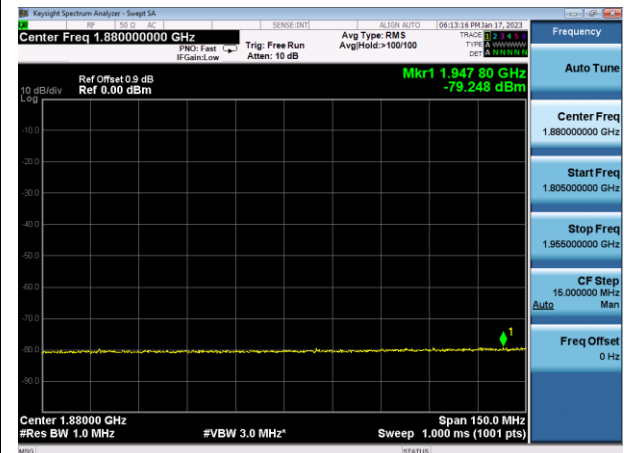
### Maximum transmitter Noise Power Level

#### UL\_Broadband PCS Band

##### Power on



##### Power off



### Variable Uplink Noise Timing

#### UL\_Upper 700MHz Band

##### UL\_Lower 700MHz Band



##### UL\_Upper 700MHz Band



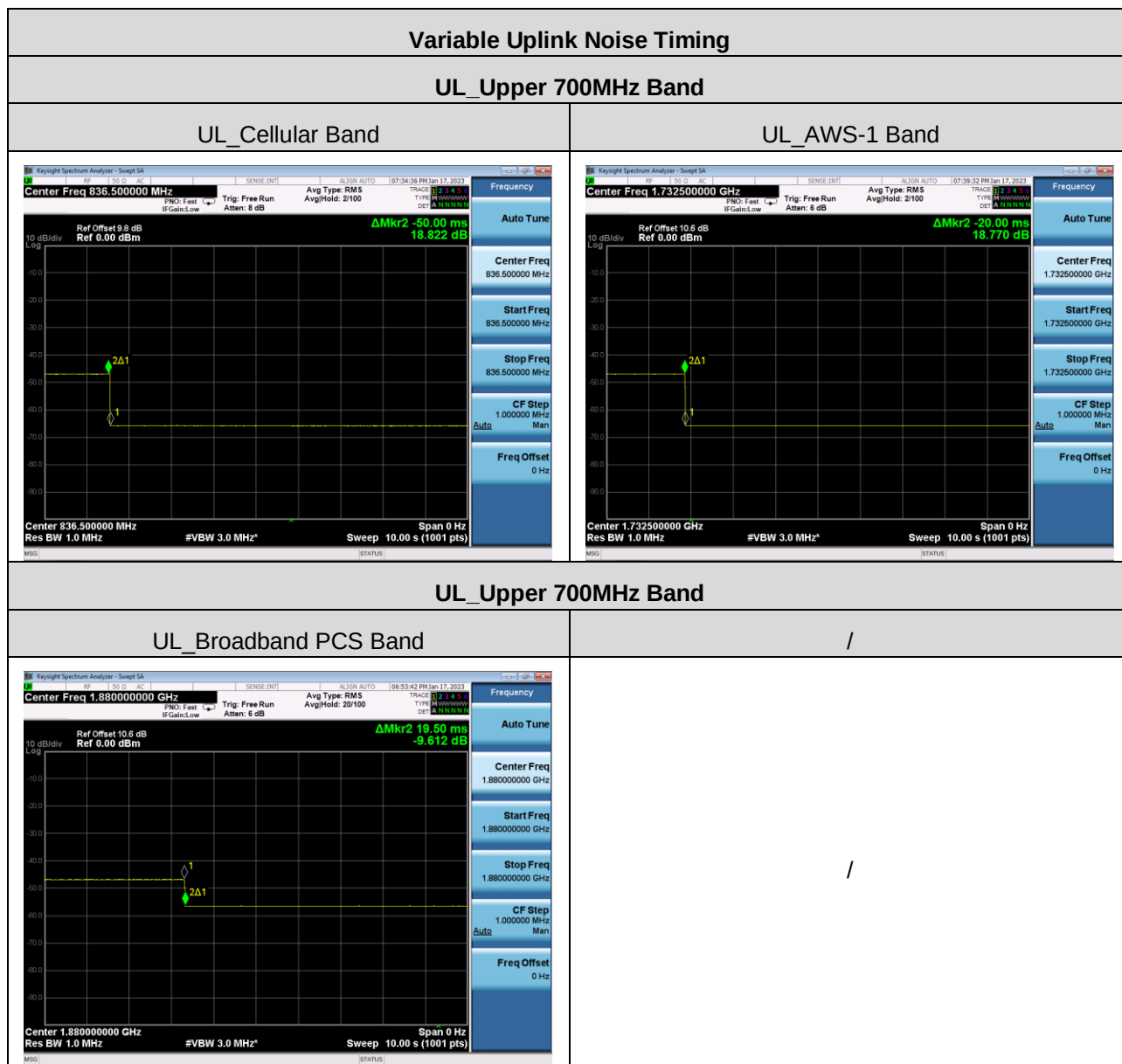
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## 8 Uplink inactivity

| Uplink Inactivity |               |          |           |                       |                 |         |
|-------------------|---------------|----------|-----------|-----------------------|-----------------|---------|
| Path              | Band          | Time (s) | limit (s) | Noise Level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| UL                | Lower 700MHz  | 291.4    | ≤300      | -82.22                | ≤-70            | PASS    |
|                   | Upper 700MHz  | 288.1    | ≤300      | -81.77                | ≤-70            | PASS    |
|                   | Cellular      | 288.1    | ≤300      | -81.75                | ≤-70            | PASS    |
|                   | AWS-1         | 282.8    | ≤300      | -81.03                | ≤-70            | PASS    |
|                   | Broadband PCS | 291.1    | ≤300      | -80.43                | ≤-70            | PASS    |



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