

For WCDMA

Test Band=WCDMA850/WCDMA1900

Test Mode=UMTS



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## 9. SPURIOUS EMISSION

### 9.1 CONDUCTED SPURIOUS EMISSION

#### 9.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. The level of the carrier and the various conducted spurious and harmonic frequency is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration.
2. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM850, data taken from 30 MHz to 9 GHz.
3. Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

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| Typical Channels for testing of GSM 850 |                 |
|-----------------------------------------|-----------------|
| Channel                                 | Frequency (MHz) |
| 128                                     | 824.2           |
| 190                                     | 836.6           |
| 251                                     | 848.8           |

| Typical Channels for testing of PCS 1900 |                 |
|------------------------------------------|-----------------|
| Channel                                  | Frequency (MHz) |
| 512                                      | 1850.2          |
| 661                                      | 1880.0          |
| 810                                      | 1909.8          |

| Typical Channels for testing of UMTS band II |                 |
|----------------------------------------------|-----------------|
| Channel                                      | Frequency (MHz) |
| 9262                                         | 1852.4          |
| 9400                                         | 1880            |
| 9538                                         | 1907.6          |

| Typical Channels for testing of UMTS band V |                 |
|---------------------------------------------|-----------------|
| Channel                                     | Frequency (MHz) |
| 4132                                        | 826.4           |
| 4182                                        | 836.4           |
| 4233                                        | 846.6           |

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### 9.1.2 PROVISIONS APPLICABLE

On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least  $43+10\log(P)$  dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

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### 9.1.3 MEASUREMENT RESULT

#### Test Results

Test Band=GSM 850/PCS1900

Test Mode=GSM/EGPRS



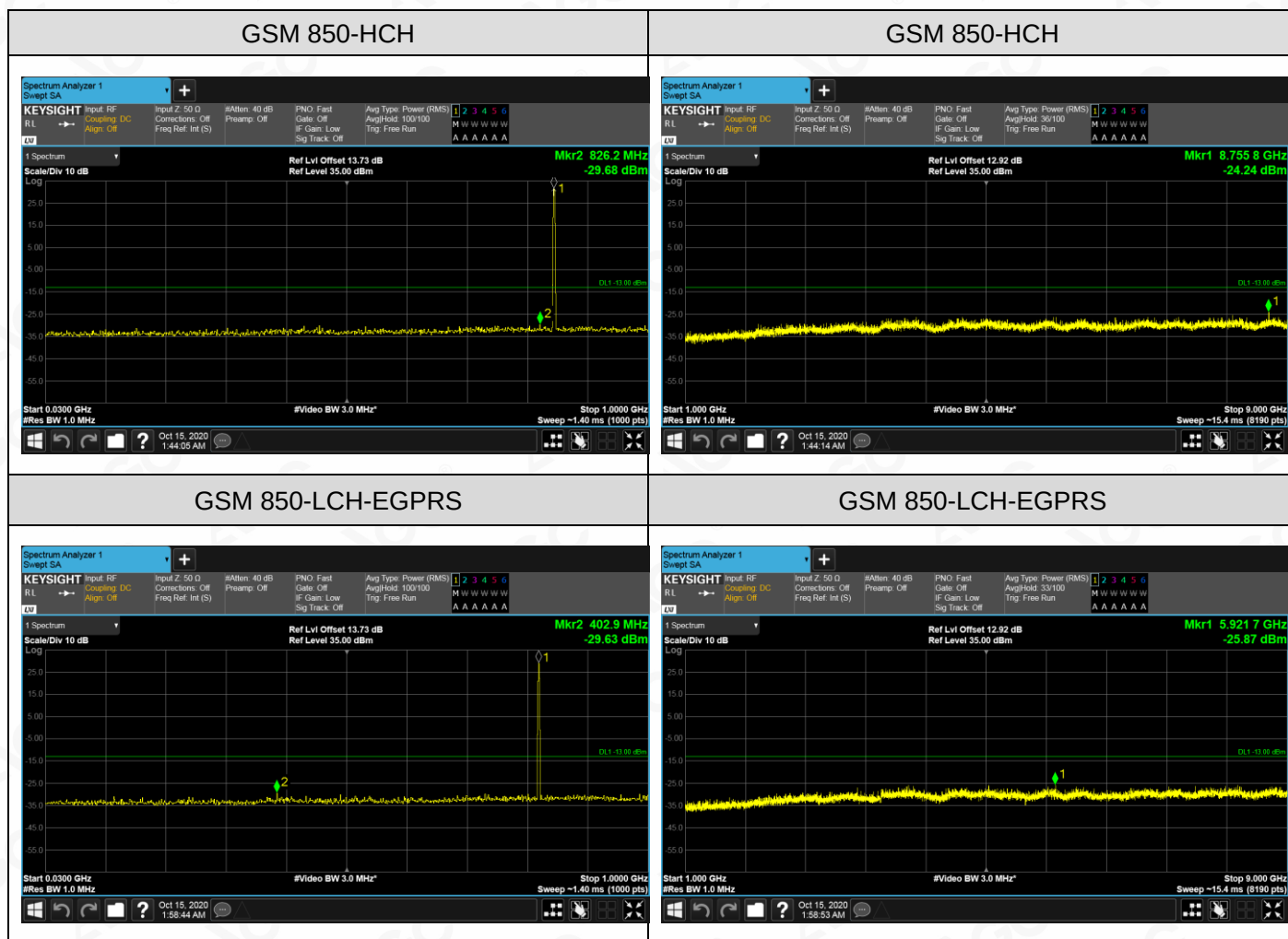
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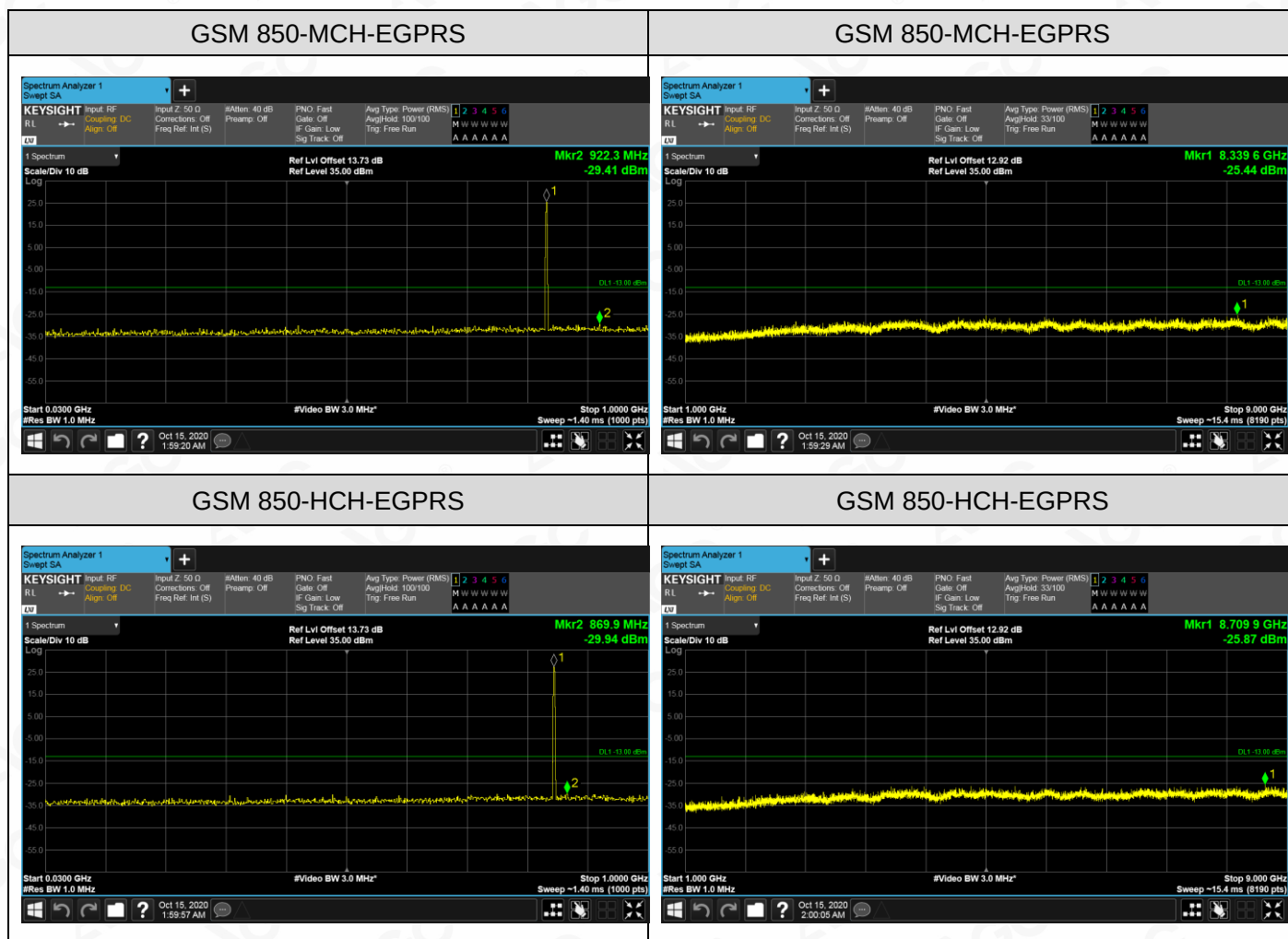




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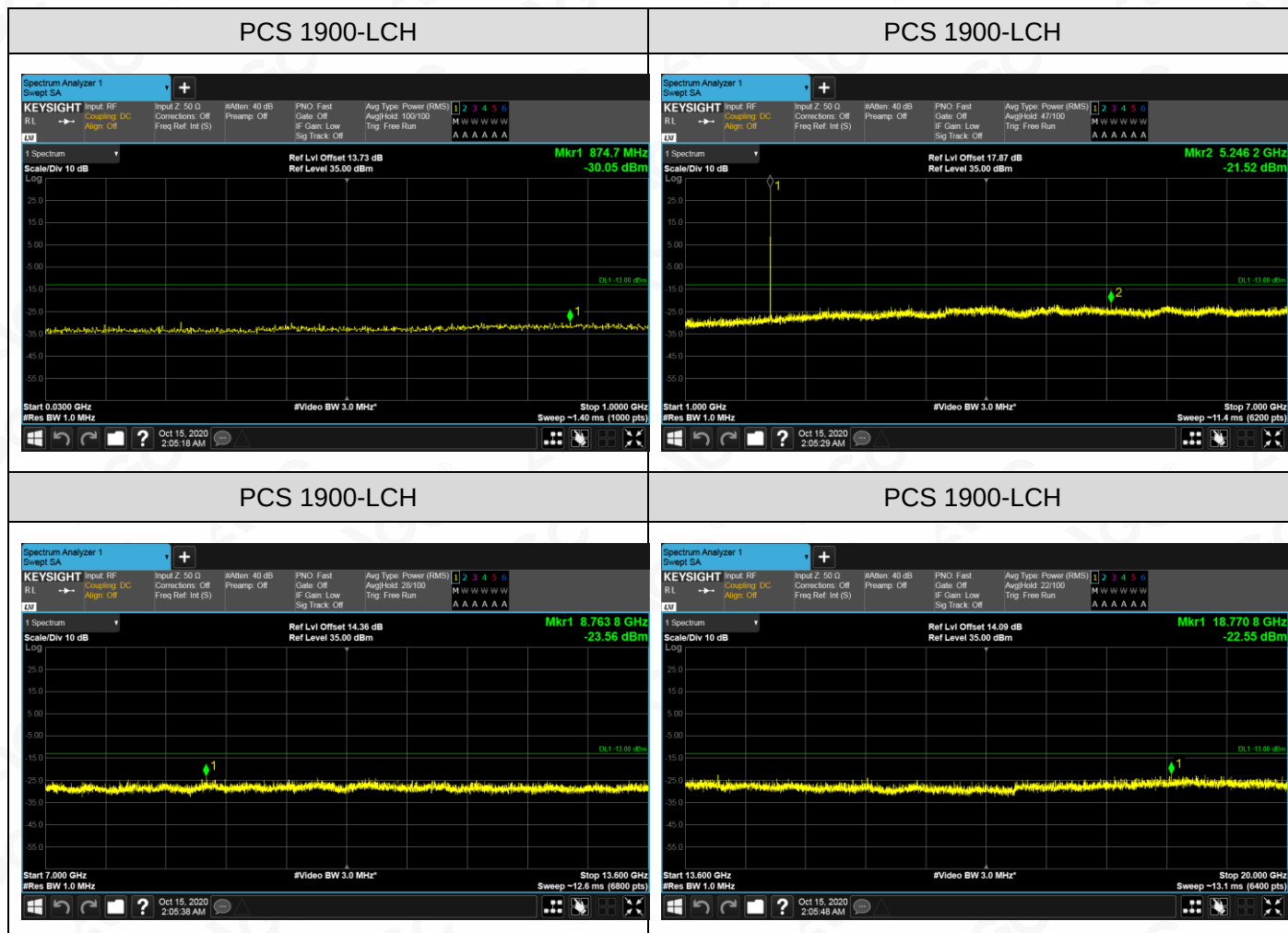




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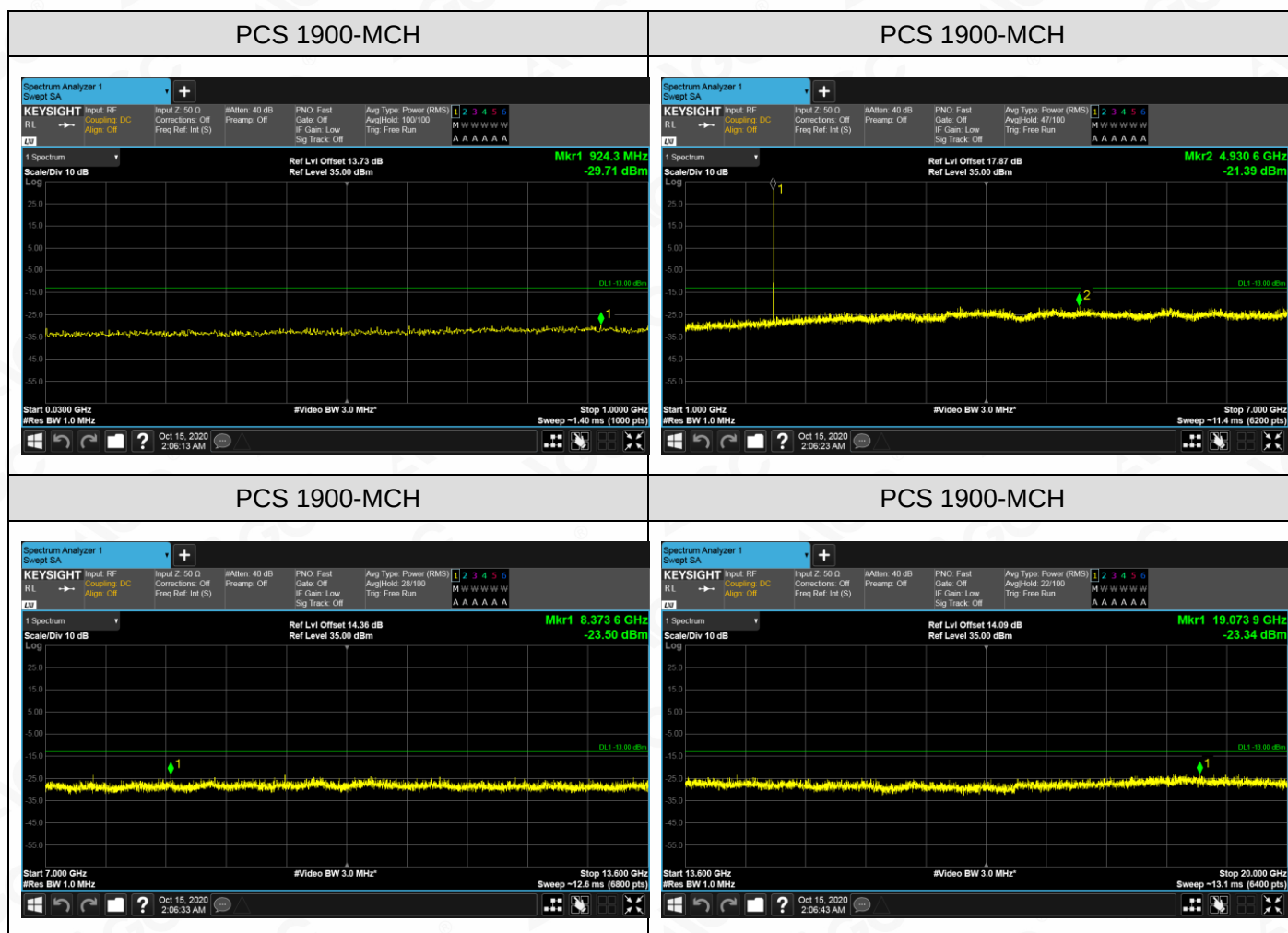




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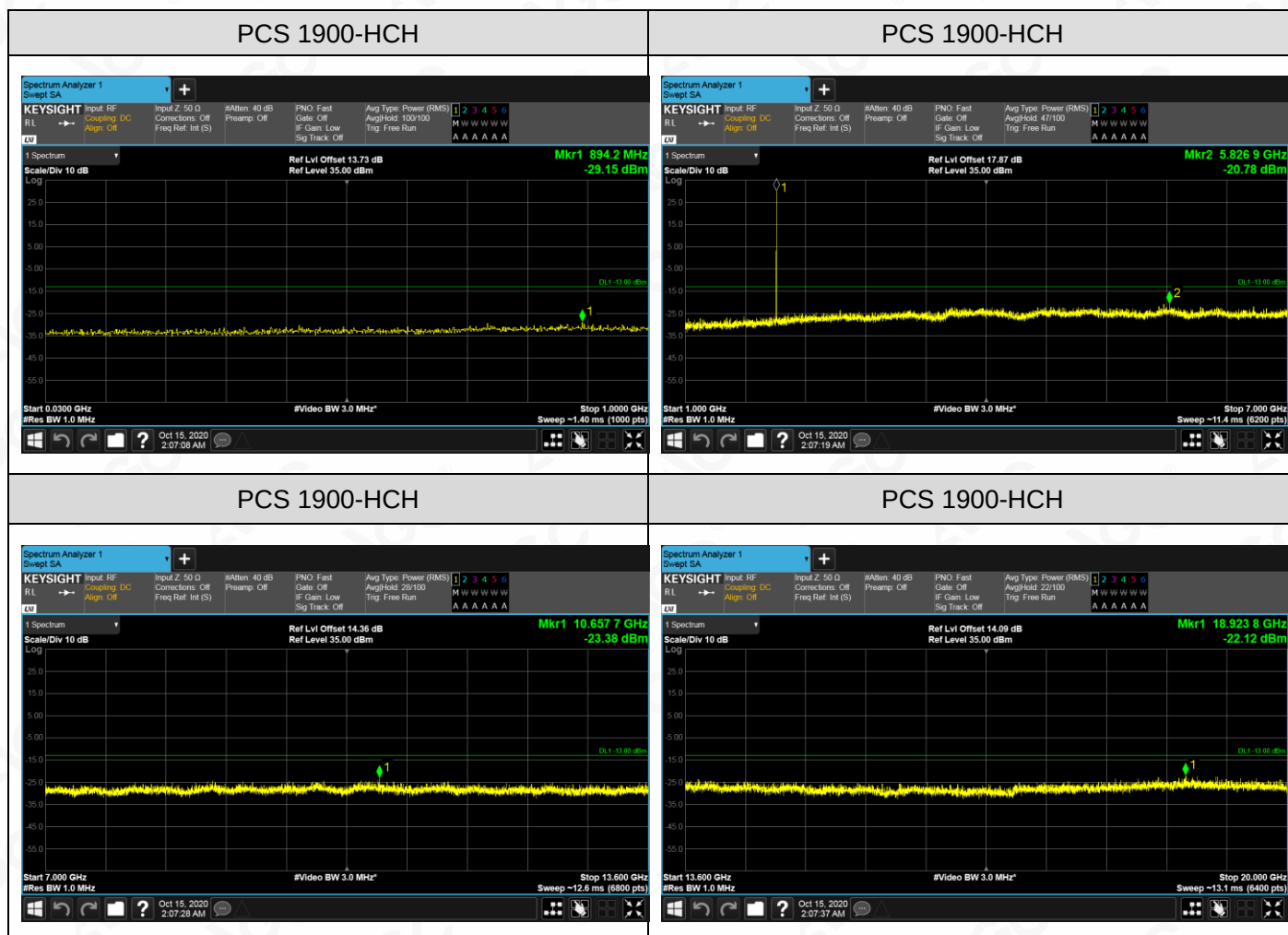




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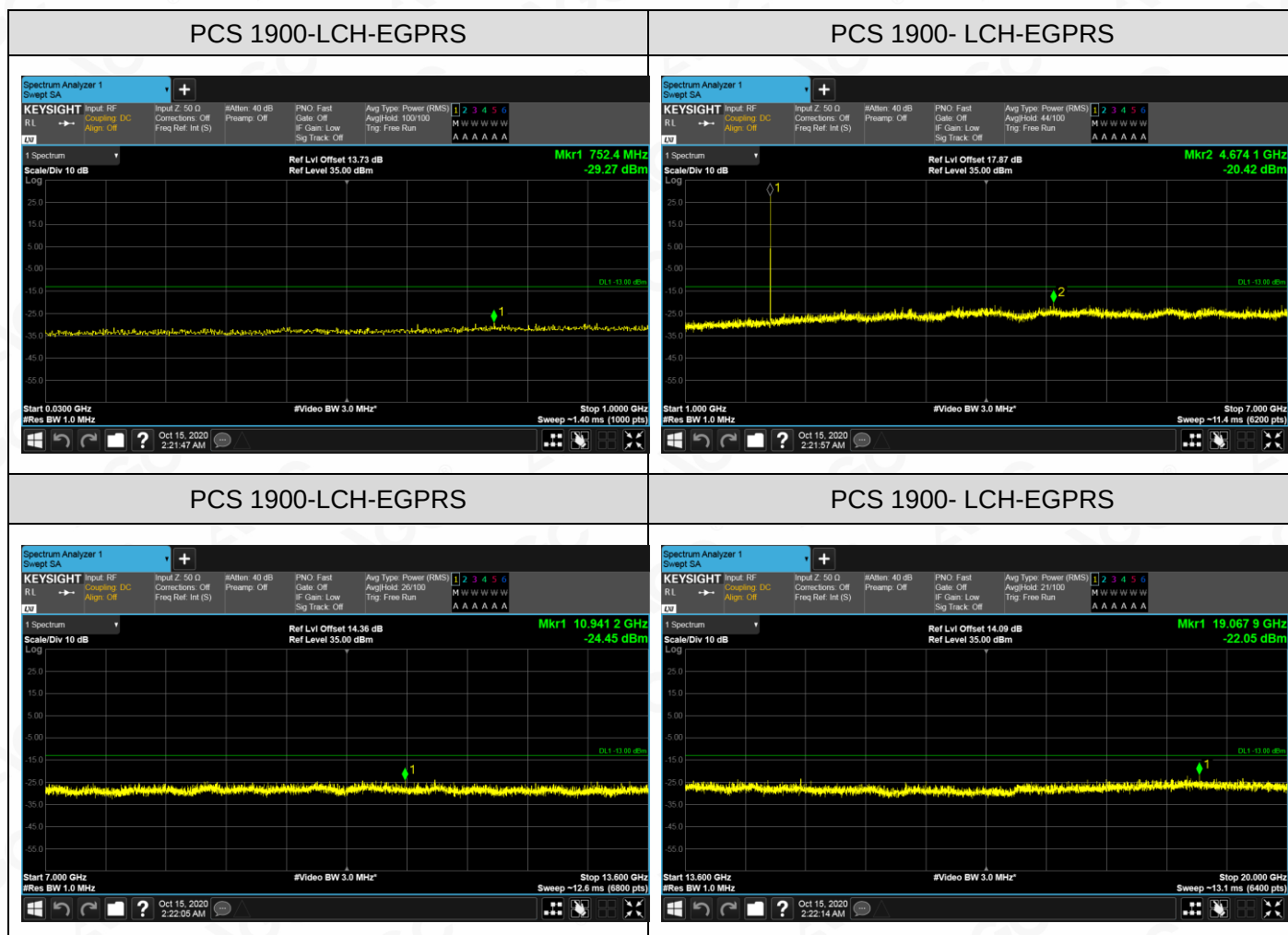




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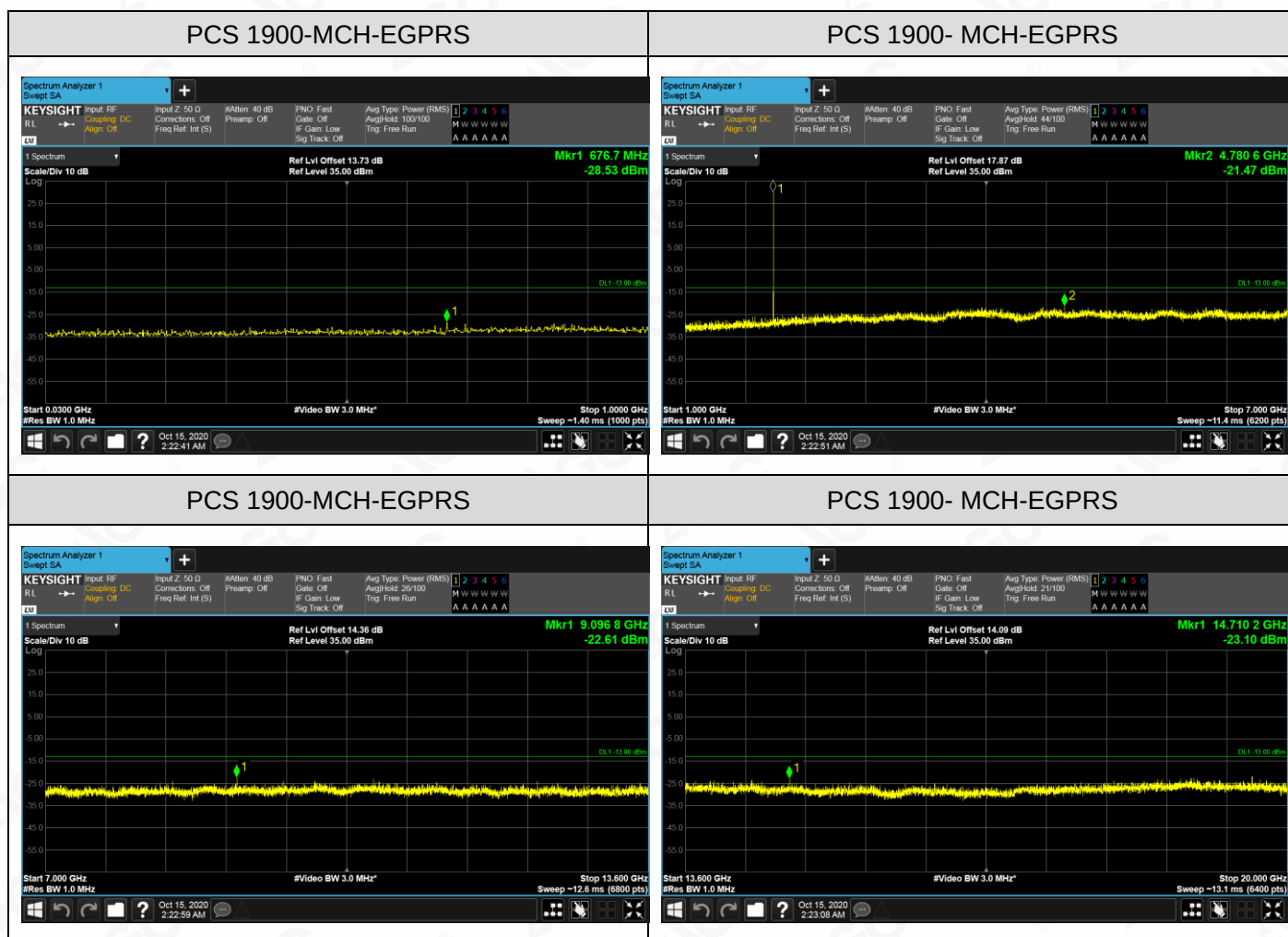




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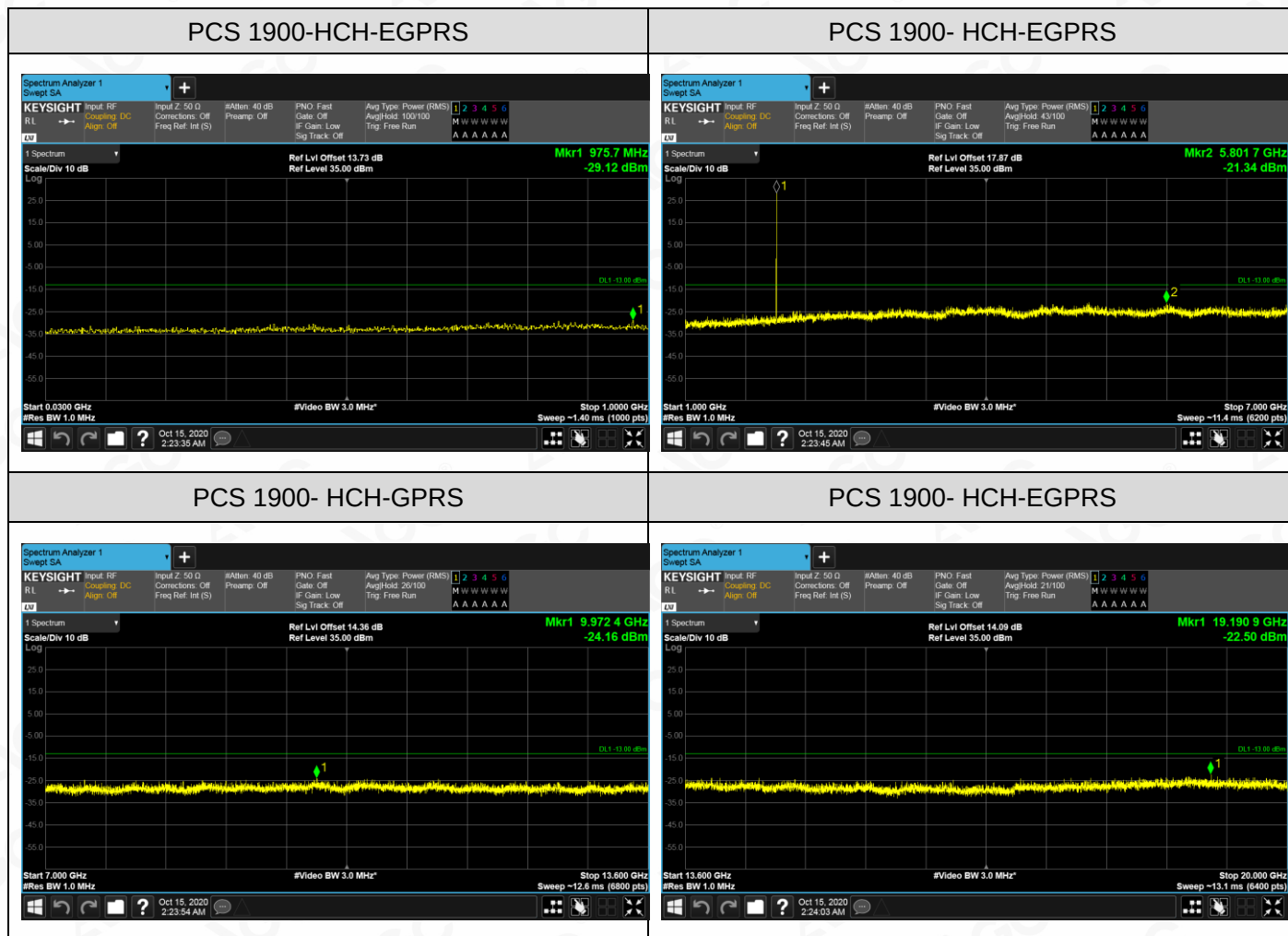




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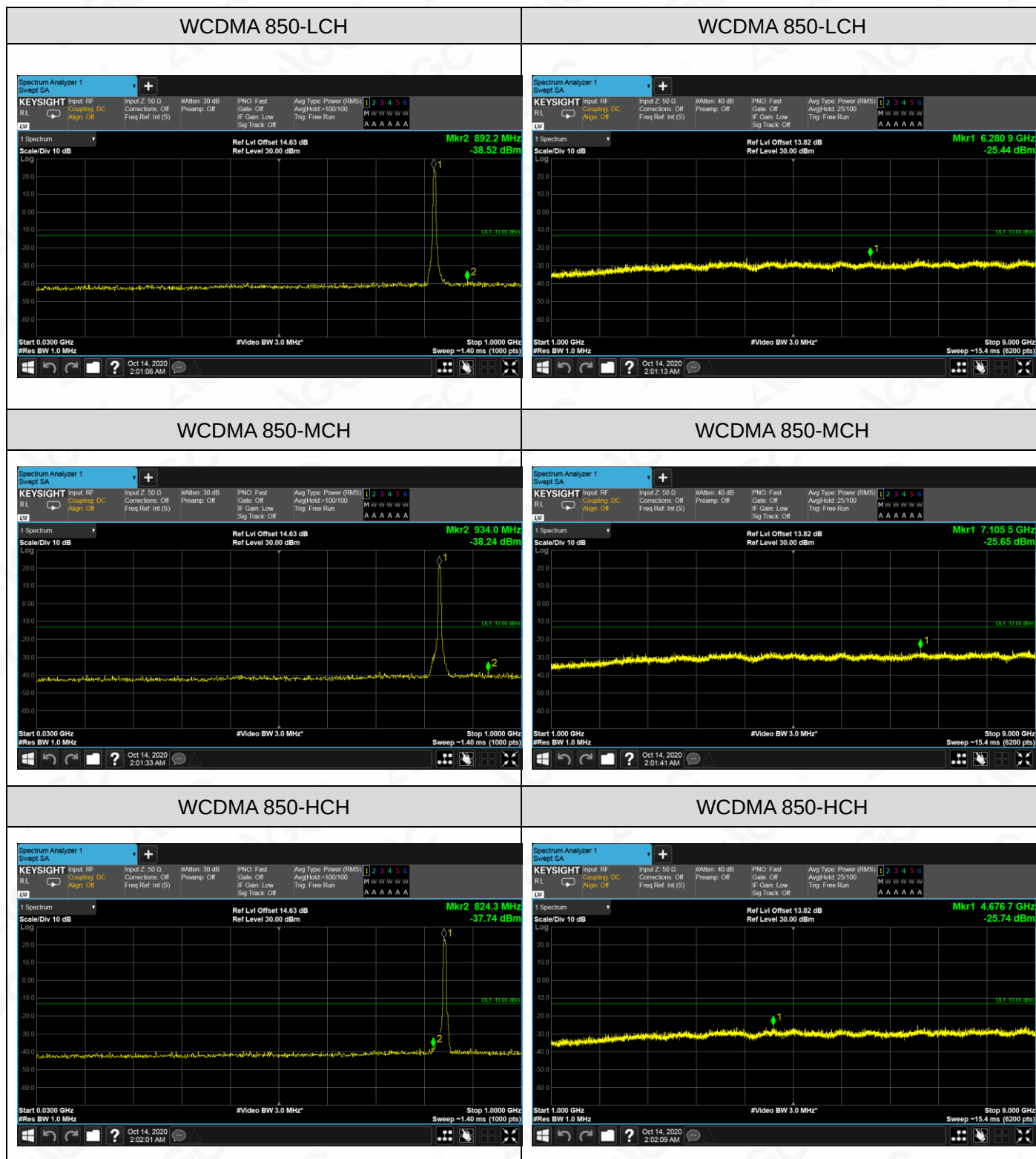
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