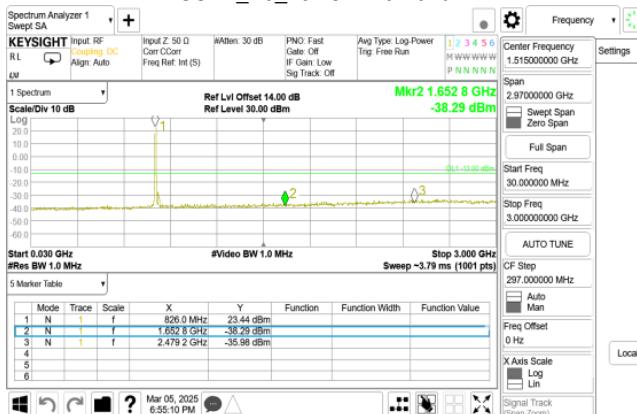
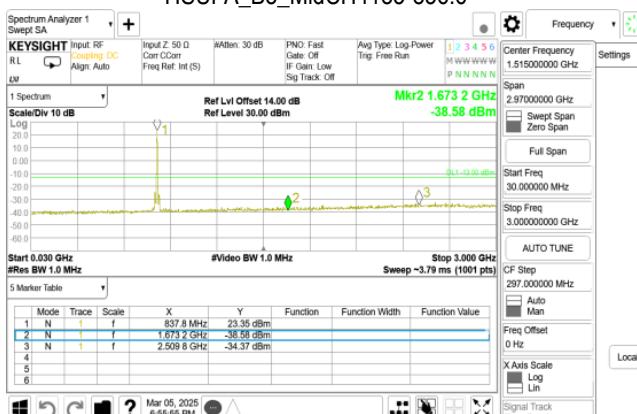


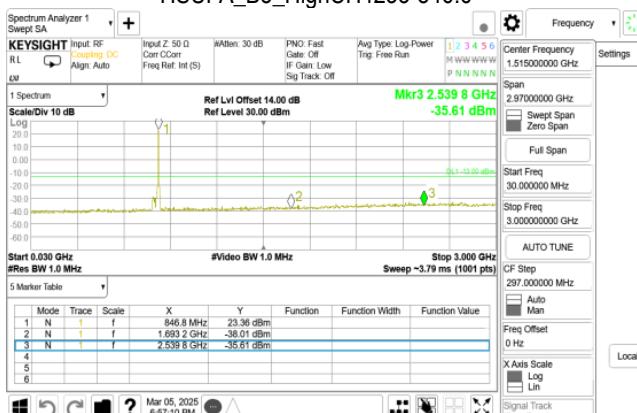
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HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



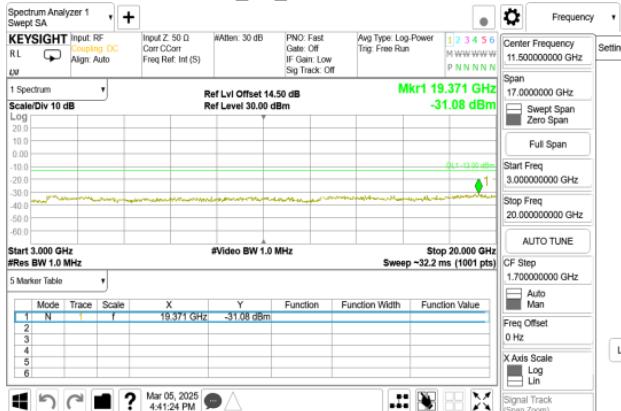
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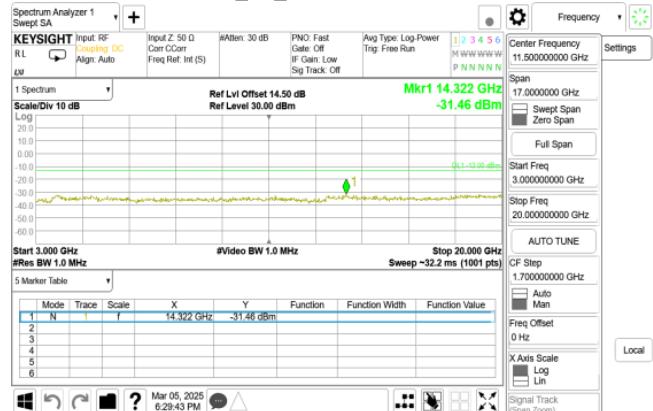


Spurious Emission High

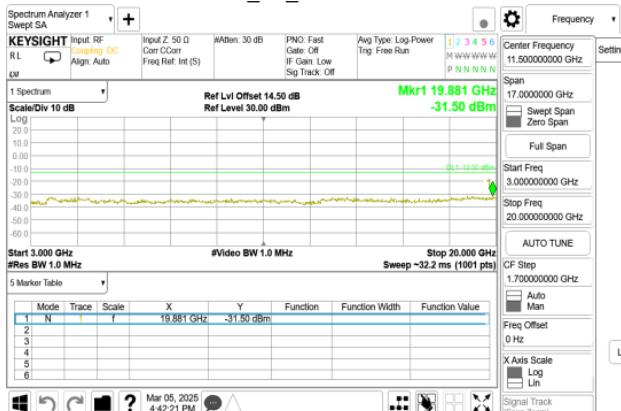
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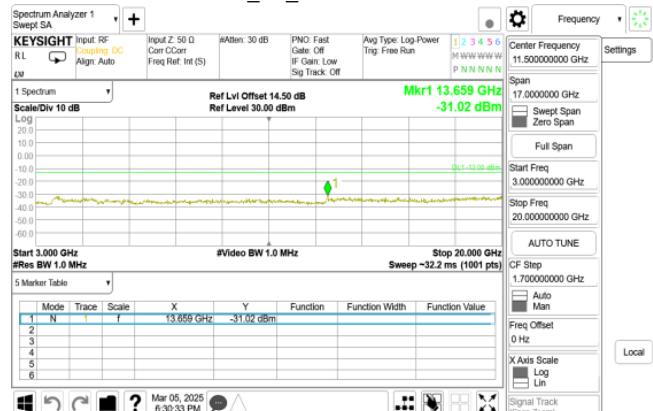
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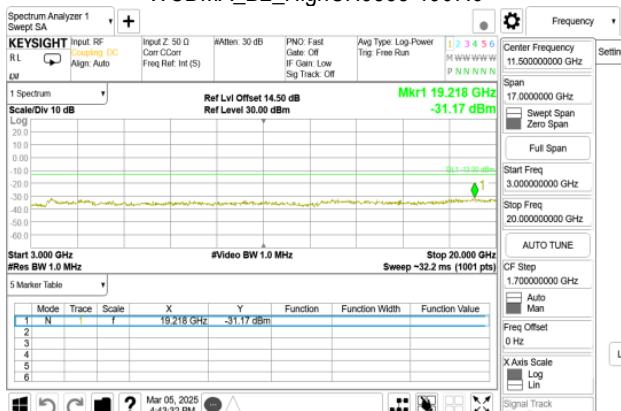
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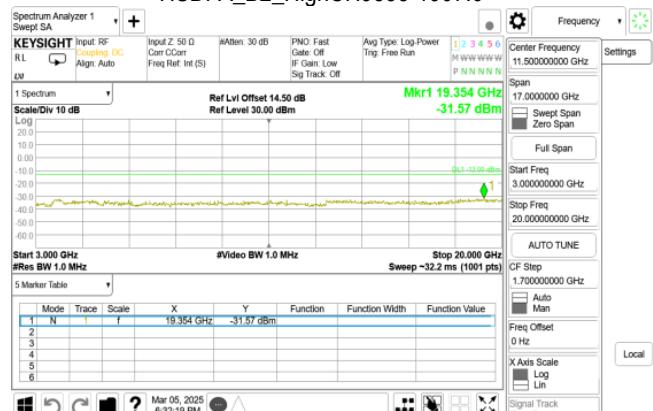
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WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



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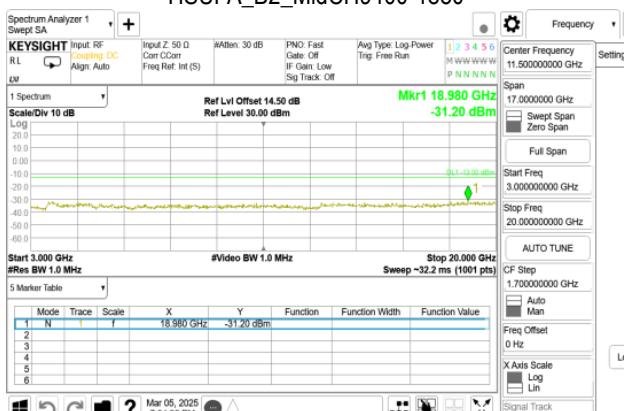
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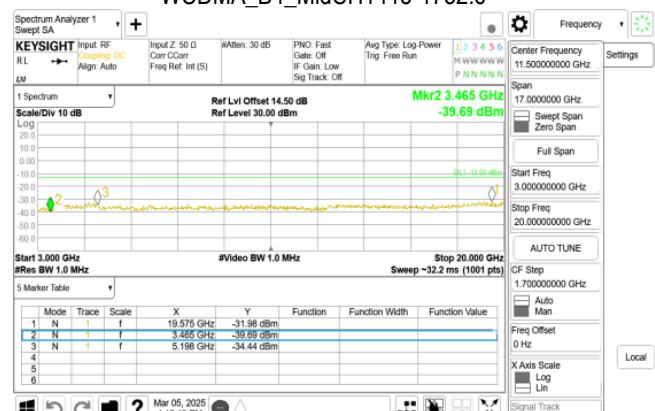
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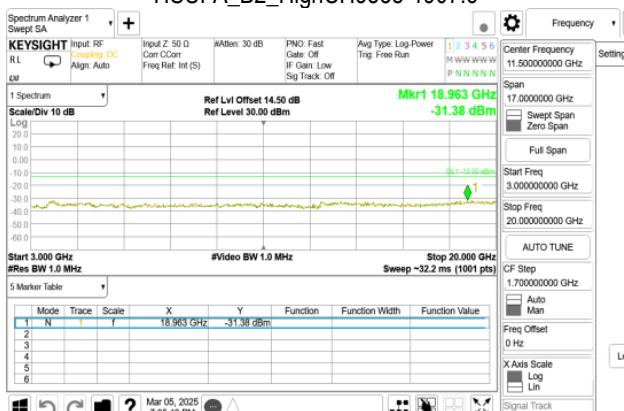
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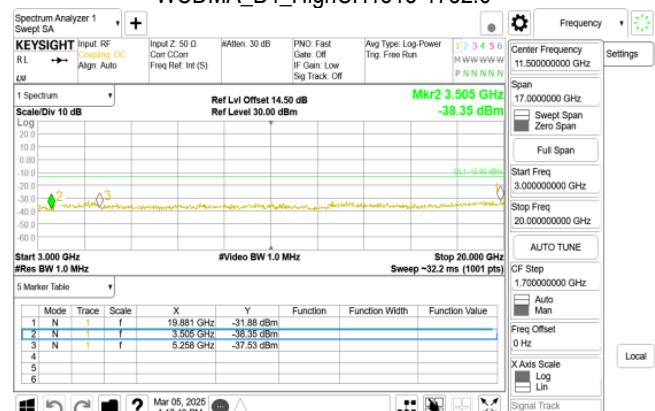
WCDMA_B4_MidCH1413-1732.6



HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6



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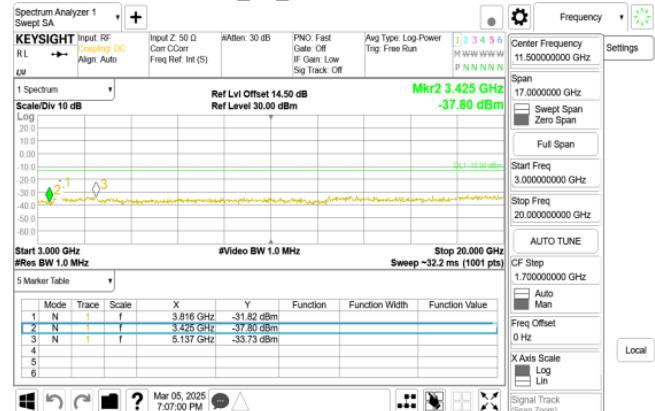
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HSUPA_B4_LowCH1312-1712.4



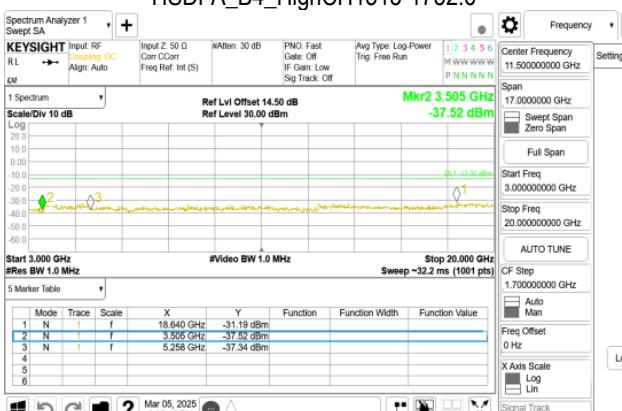
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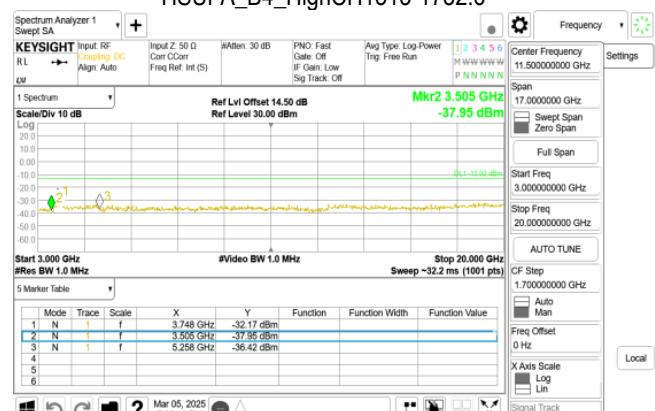
HSUPA_B4_MidCH1413-1732.6



HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



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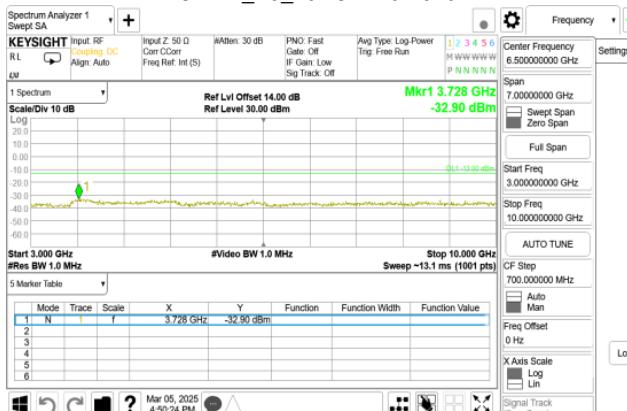
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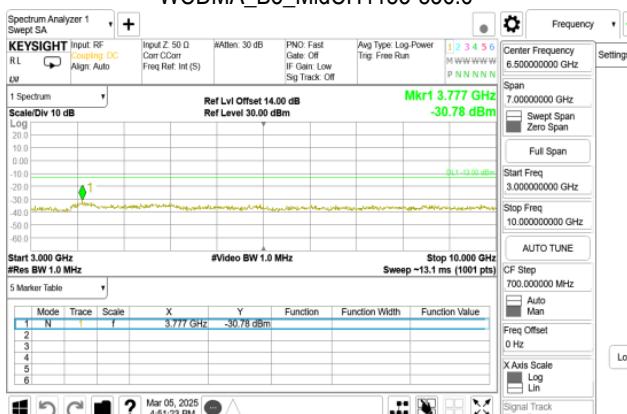
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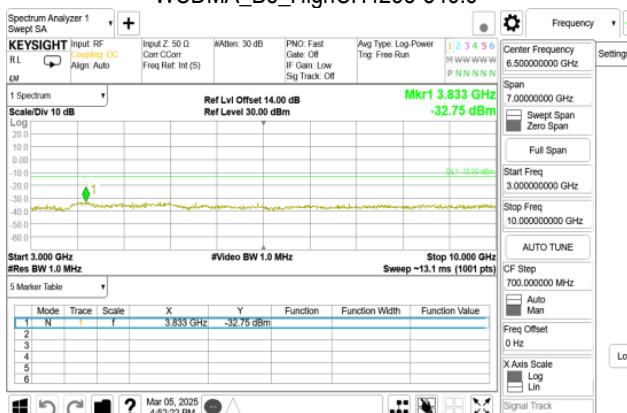
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WCDMA_B5_MidCH4183-836.6



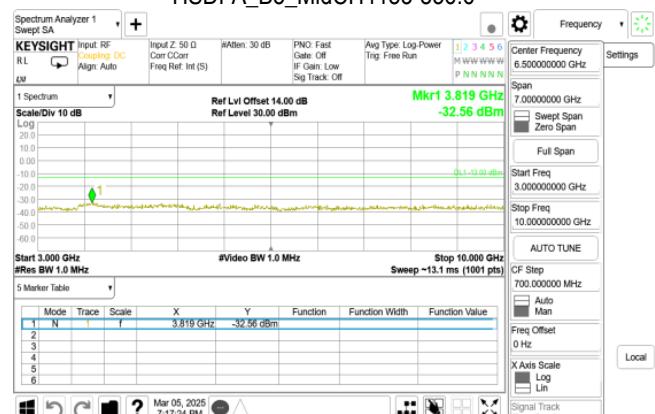
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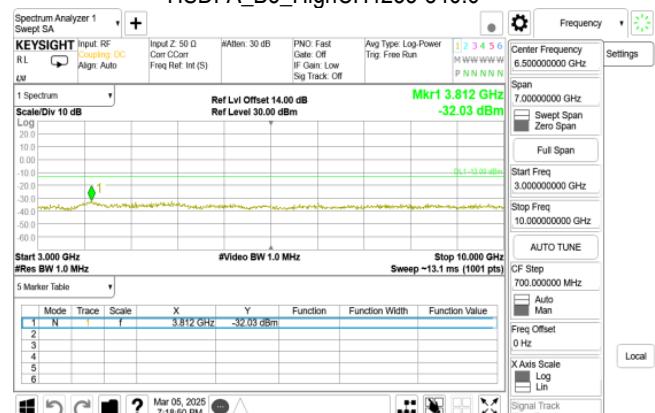
HSDPA_B5_LowCH4132-826.4



HSDPA_B5_MidCH4183-836.6



HSDPA_B5_HighCH4233-846.6



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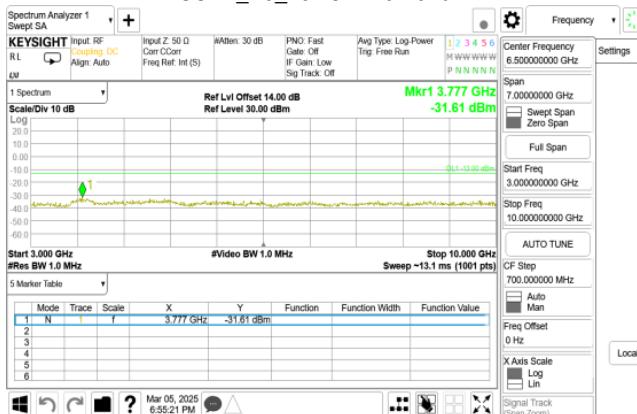
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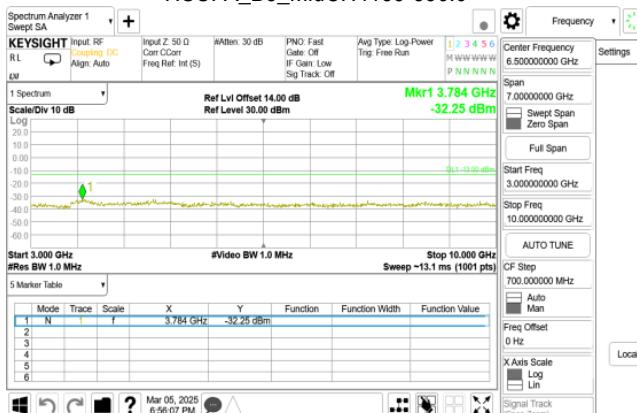
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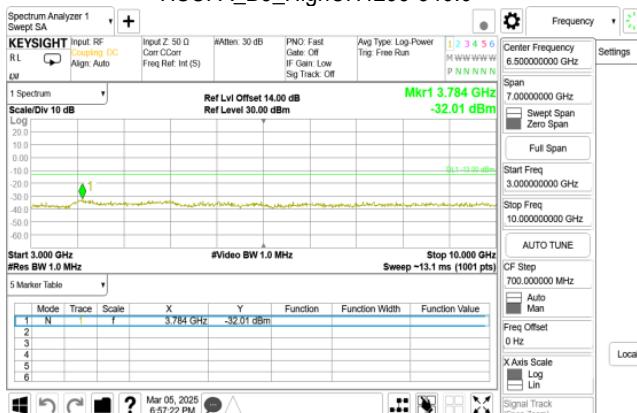
HSUPA_B5_LowCH4132-826.4



HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

11.1 Standard Applicable

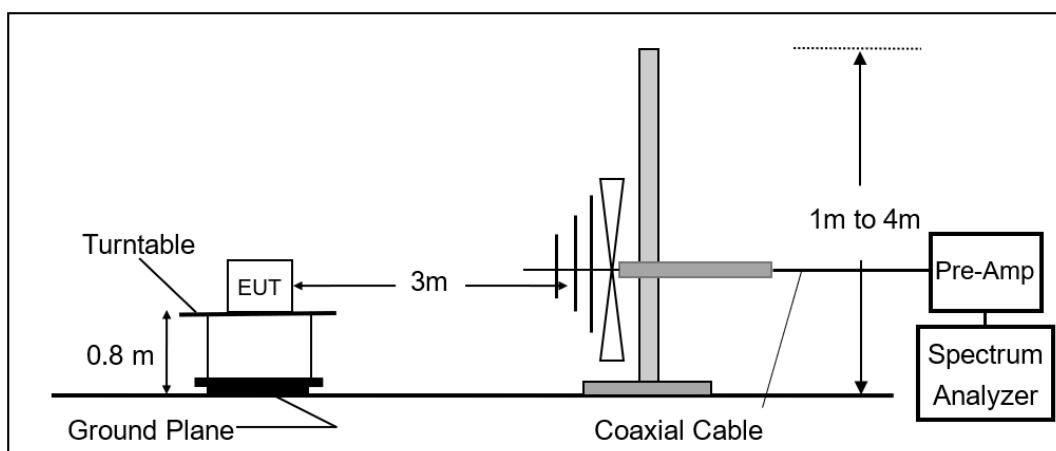
According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h) and RSS-132 §5.5, RSS-133 §5.6, RSS-139 §5.6

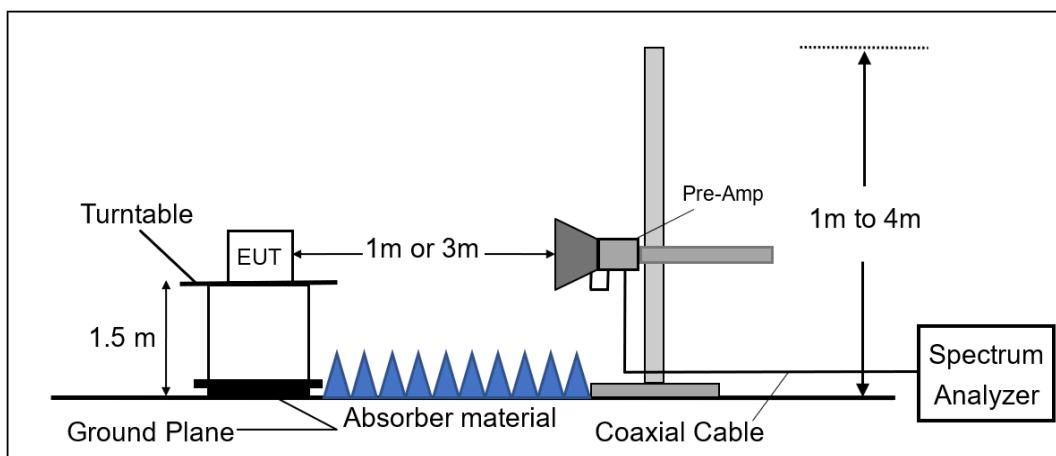
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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11.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

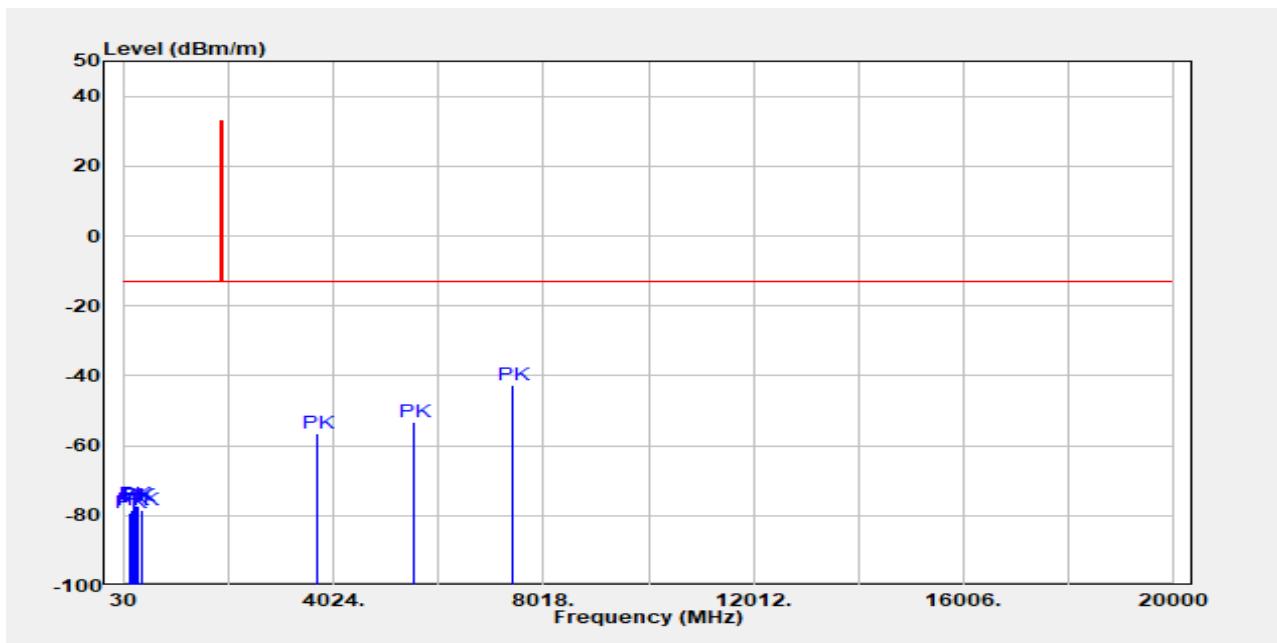
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11.4 Measurement Result:

| | | | |
|----------------|-------------------|--------------|-------------|
| Report Number | :TERF2501000192ER | Test Site | :SAC 3 |
| Operation Mode | :WCDMA B2 | Test Date | :2025-03-18 |
| Test Mode | :Tx | Temp./Humi. | :19.3°C/46% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1852.4 MHz | Engineer | :Nick Lin |



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 137.778 | -79.21 | -75.28 | -1.79 | -2.14 | -13.00 | -66.21 |
| 179.530 | -78.36 | -77.08 | 1.17 | -2.45 | -13.00 | -65.36 |
| 206.717 | -76.67 | -78.16 | 4.12 | -2.63 | -13.00 | -63.67 |
| 231.962 | -77.04 | -78.69 | 4.43 | -2.78 | -13.00 | -64.04 |
| 279.540 | -77.43 | -78.09 | 3.72 | -3.06 | -13.00 | -64.43 |
| 372.753 | -78.30 | -78.87 | 4.10 | -3.52 | -13.00 | -65.30 |
| 3704.800 | -56.62 | -57.76 | 12.50 | -11.36 | -13.00 | -43.62 |
| 5557.200 | -53.25 | -52.41 | 13.23 | -14.07 | -13.00 | -40.25 |
| 7409.600 | -42.84 | -37.57 | 11.08 | -16.35 | -13.00 | -29.84 |

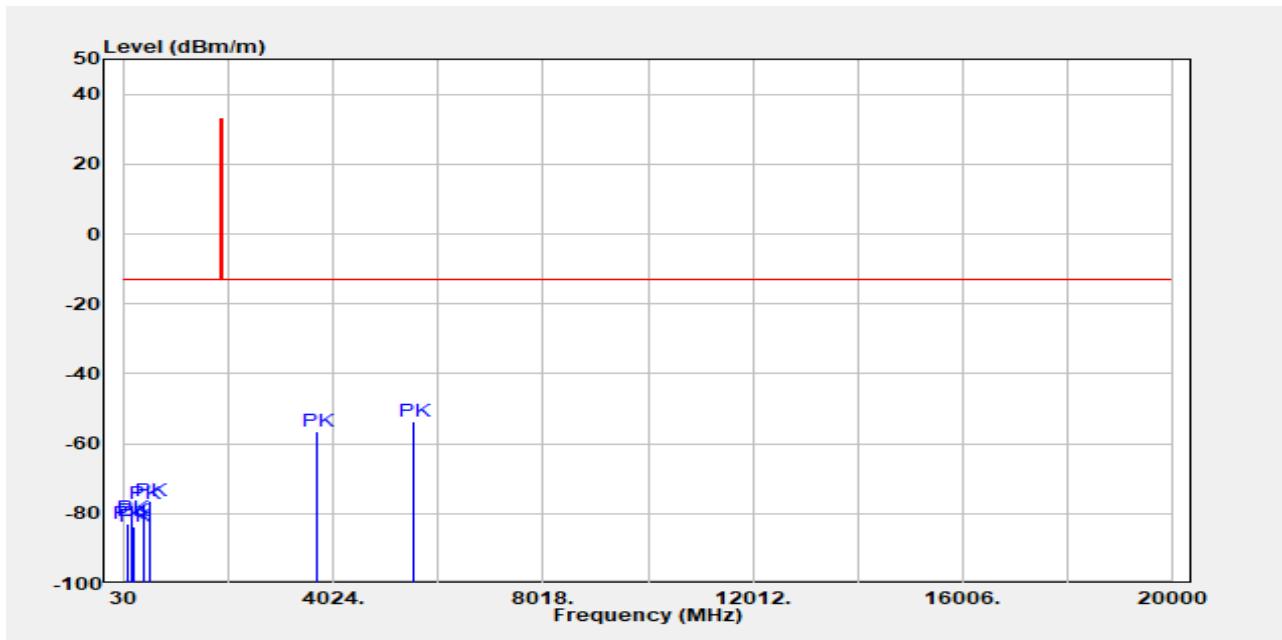
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Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B2 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :1852.4 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 88.258 | -82.88 | -80.05 | -1.10 | -1.72 | -13.00 | -69.88 |
| 152.342 | -81.48 | -77.69 | -1.53 | -2.26 | -13.00 | -68.48 |
| 164.965 | -81.93 | -79.10 | -0.48 | -2.35 | -13.00 | -68.93 |
| 210.601 | -83.84 | -85.53 | 4.35 | -2.65 | -13.00 | -70.84 |
| 387.317 | -77.26 | -77.57 | 3.89 | -3.59 | -13.00 | -64.26 |
| 531.021 | -76.30 | -76.11 | 4.01 | -4.20 | -13.00 | -63.30 |
| 3704.800 | -56.62 | -57.76 | 12.50 | -11.36 | -13.00 | -43.62 |
| 5557.200 | -53.73 | -52.89 | 13.23 | -14.07 | -13.00 | -40.73 |

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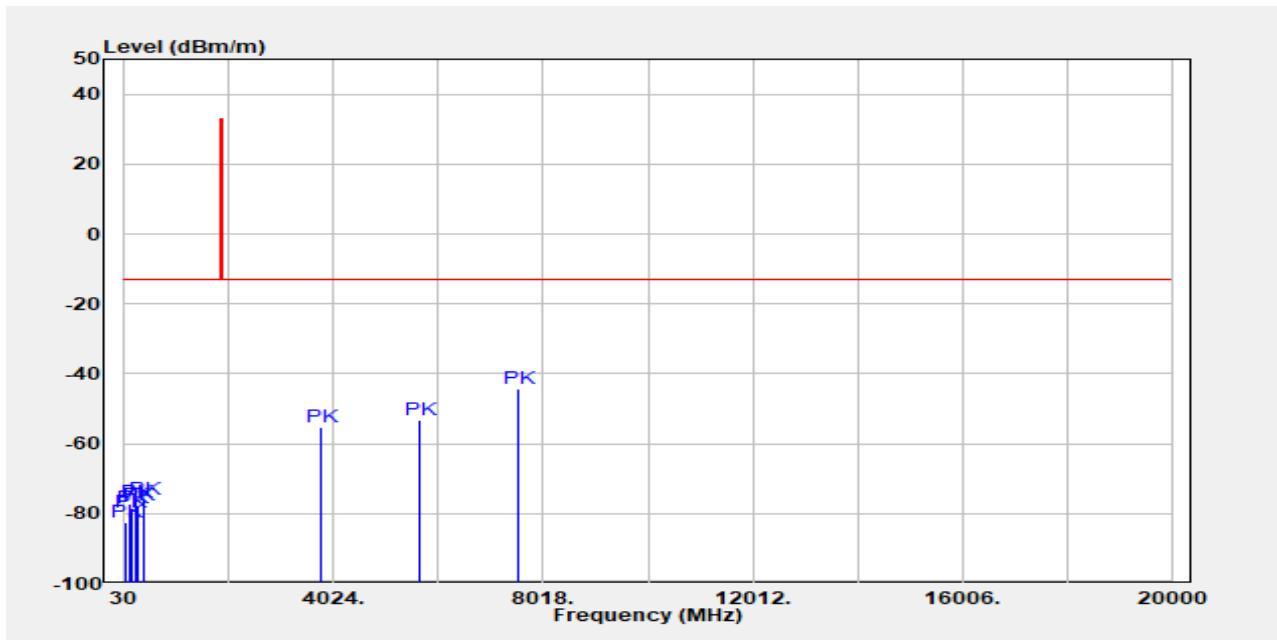
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B2 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :1880 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 47.477 | -82.38 | -68.82 | -12.29 | -1.26 | -13.00 | -69.38 |
| 130.981 | -79.62 | -75.75 | -1.77 | -2.10 | -13.00 | -66.62 |
| 179.530 | -78.63 | -77.35 | 1.17 | -2.45 | -13.00 | -65.63 |
| 230.991 | -77.02 | -78.82 | 4.57 | -2.78 | -13.00 | -64.02 |
| 281.482 | -77.59 | -78.23 | 3.71 | -3.07 | -13.00 | -64.59 |
| 381.492 | -76.05 | -76.43 | 3.95 | -3.57 | -13.00 | -63.05 |
| 3760.000 | -55.31 | -56.36 | 12.50 | -11.44 | -13.00 | -42.31 |
| 5640.000 | -53.25 | -52.56 | 13.48 | -14.17 | -13.00 | -40.25 |
| 7520.000 | -44.30 | -38.93 | 11.08 | -16.45 | -13.00 | -31.30 |

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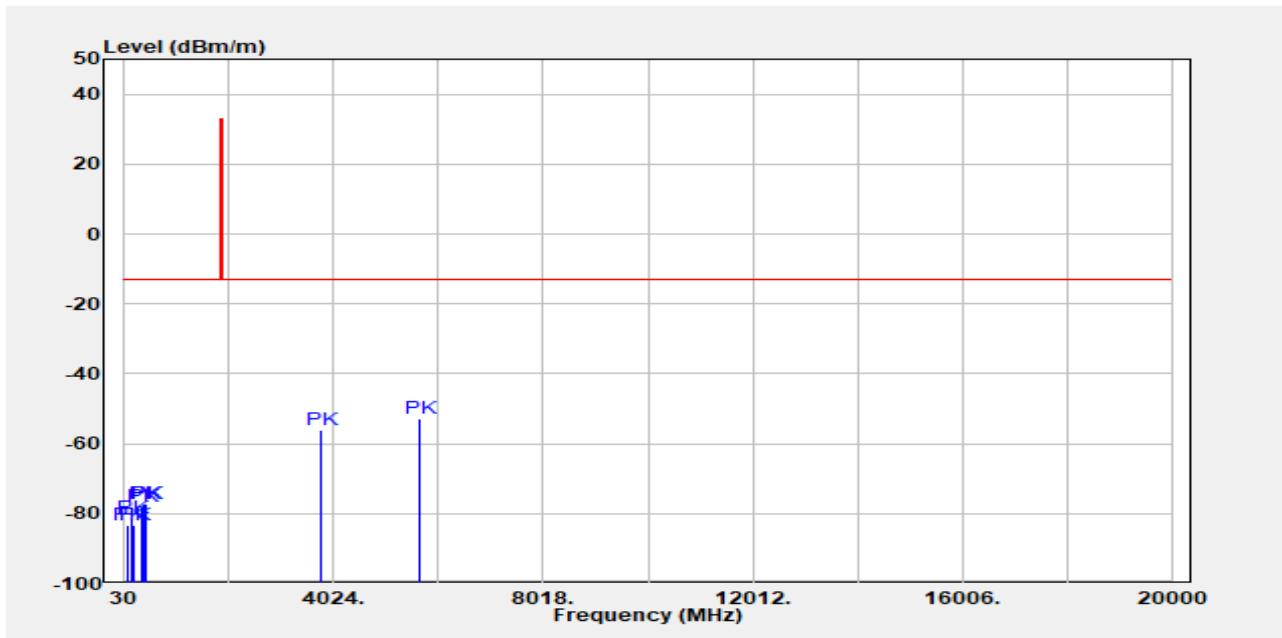
t (886-2) 2299-3279

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Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B2 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :1880 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 85.345 | -83.43 | -80.21 | -1.53 | -1.69 | -13.00 | -70.43 |
| 161.081 | -81.41 | -78.13 | -0.97 | -2.32 | -13.00 | -68.41 |
| 214.485 | -83.15 | -84.98 | 4.51 | -2.68 | -13.00 | -70.15 |
| 354.304 | -78.04 | -78.87 | 4.26 | -3.43 | -13.00 | -65.04 |
| 405.766 | -77.33 | -77.60 | 3.95 | -3.67 | -13.00 | -64.33 |
| 440.721 | -77.33 | -77.13 | 3.64 | -3.83 | -13.00 | -64.33 |
| 3760.000 | -56.03 | -57.08 | 12.50 | -11.44 | -13.00 | -43.03 |
| 5640.000 | -52.75 | -52.06 | 13.48 | -14.17 | -13.00 | -39.75 |

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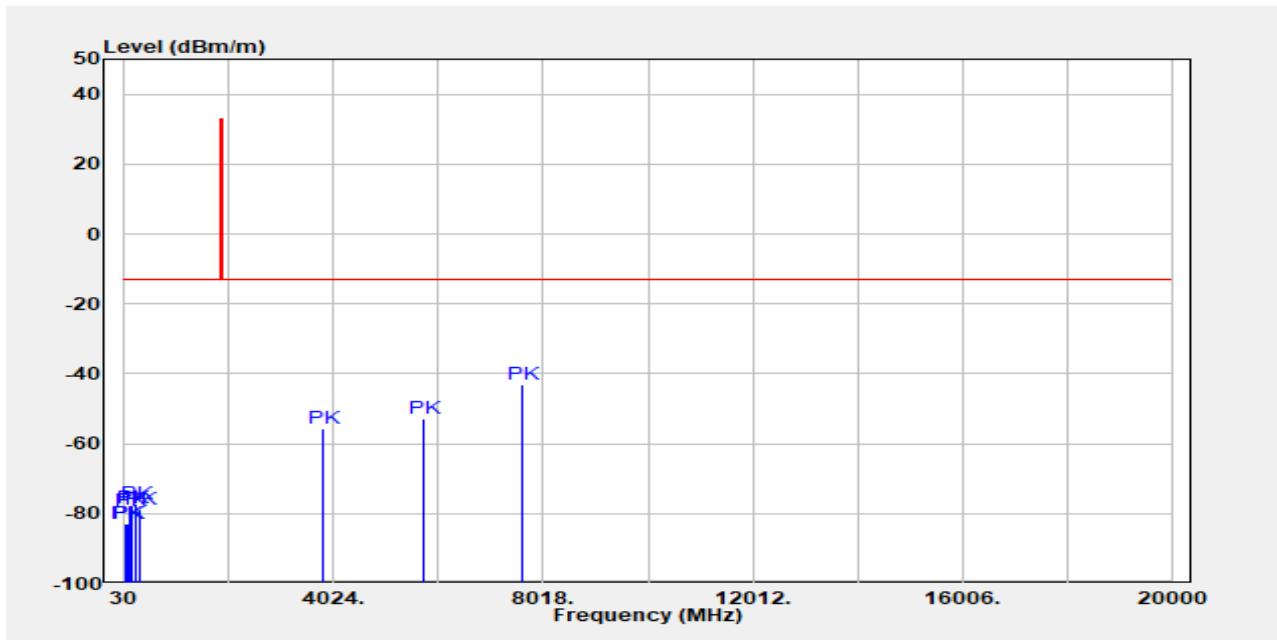
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B2 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :1907.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 49.419 | -82.93 | -69.54 | -12.10 | -1.29 | -13.00 | -69.93 |
| 83.403 | -83.13 | -79.44 | -2.01 | -1.67 | -13.00 | -70.13 |
| 130.010 | -79.29 | -75.46 | -1.74 | -2.09 | -13.00 | -66.29 |
| 179.530 | -78.58 | -77.30 | 1.17 | -2.45 | -13.00 | -65.58 |
| 231.962 | -77.09 | -78.74 | 4.43 | -2.78 | -13.00 | -64.09 |
| 330.030 | -78.79 | -79.32 | 3.85 | -3.32 | -13.00 | -65.79 |
| 3815.200 | -55.66 | -56.57 | 12.44 | -11.52 | -13.00 | -42.66 |
| 5722.800 | -52.78 | -51.80 | 13.30 | -14.28 | -13.00 | -39.78 |
| 7630.400 | -43.09 | -37.83 | 11.32 | -16.58 | -13.00 | -30.09 |

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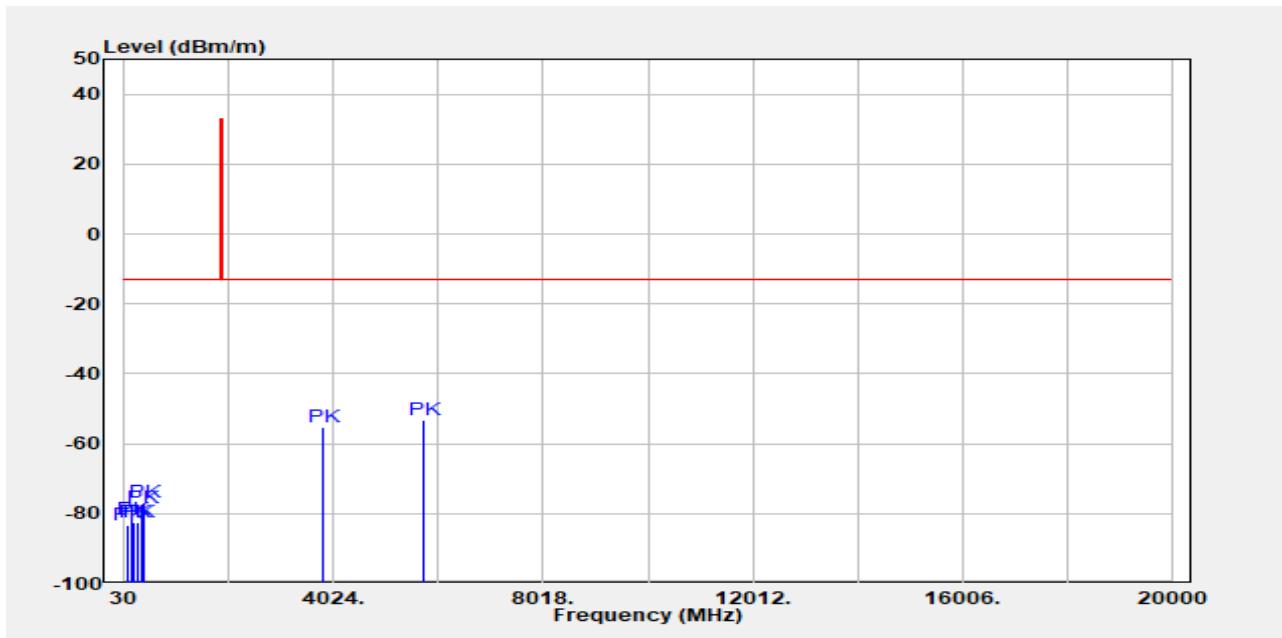
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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
 Operation Mode :WCDMA B2 Test Date :2025-03-18
 Test Mode :Tx Temp./Humi. :19.3°C/46%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :1907.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 91.171 | -83.33 | -80.74 | -0.84 | -1.75 | -13.00 | -70.33 |
| 165.936 | -81.54 | -78.67 | -0.52 | -2.36 | -13.00 | -68.54 |
| 207.688 | -82.67 | -84.22 | 4.18 | -2.64 | -13.00 | -69.67 |
| 282.453 | -82.70 | -83.33 | 3.70 | -3.07 | -13.00 | -69.70 |
| 341.682 | -78.32 | -78.96 | 4.02 | -3.38 | -13.00 | -65.32 |
| 382.463 | -76.93 | -77.30 | 3.94 | -3.57 | -13.00 | -63.93 |
| 3815.200 | -55.27 | -56.18 | 12.44 | -11.52 | -13.00 | -42.27 |
| 5722.800 | -53.12 | -52.14 | 13.30 | -14.28 | -13.00 | -40.12 |

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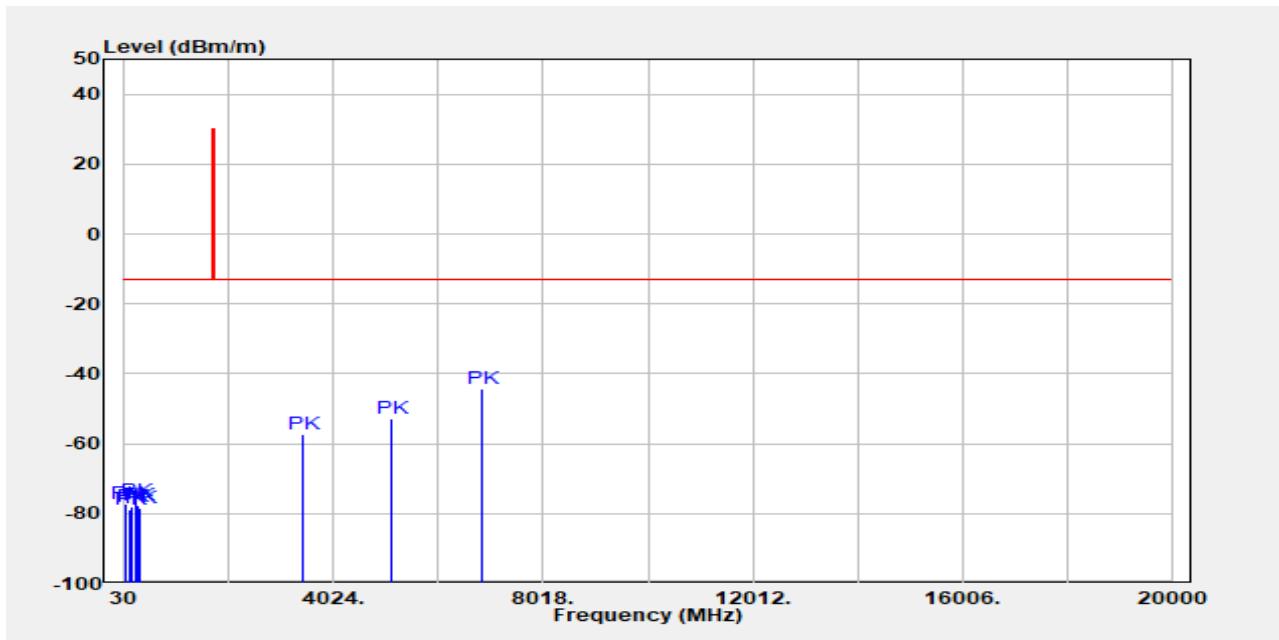
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B4 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :1712.4 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 68.839 | -77.23 | -68.67 | -7.04 | -1.52 | -13.00 | -64.23 |
| 133.894 | -78.95 | -75.07 | -1.77 | -2.12 | -13.00 | -65.95 |
| 180.501 | -77.92 | -76.77 | 1.31 | -2.45 | -13.00 | -64.92 |
| 229.049 | -76.39 | -78.40 | 4.77 | -2.76 | -13.00 | -63.39 |
| 278.569 | -77.59 | -78.24 | 3.71 | -3.05 | -13.00 | -64.59 |
| 337.798 | -78.36 | -78.95 | 3.95 | -3.36 | -13.00 | -65.36 |
| 3424.800 | -57.19 | -58.83 | 12.55 | -10.91 | -13.00 | -44.19 |
| 5137.200 | -53.03 | -51.93 | 12.40 | -13.49 | -13.00 | -40.03 |
| 6849.600 | -44.36 | -40.88 | 12.20 | -15.68 | -13.00 | -31.36 |

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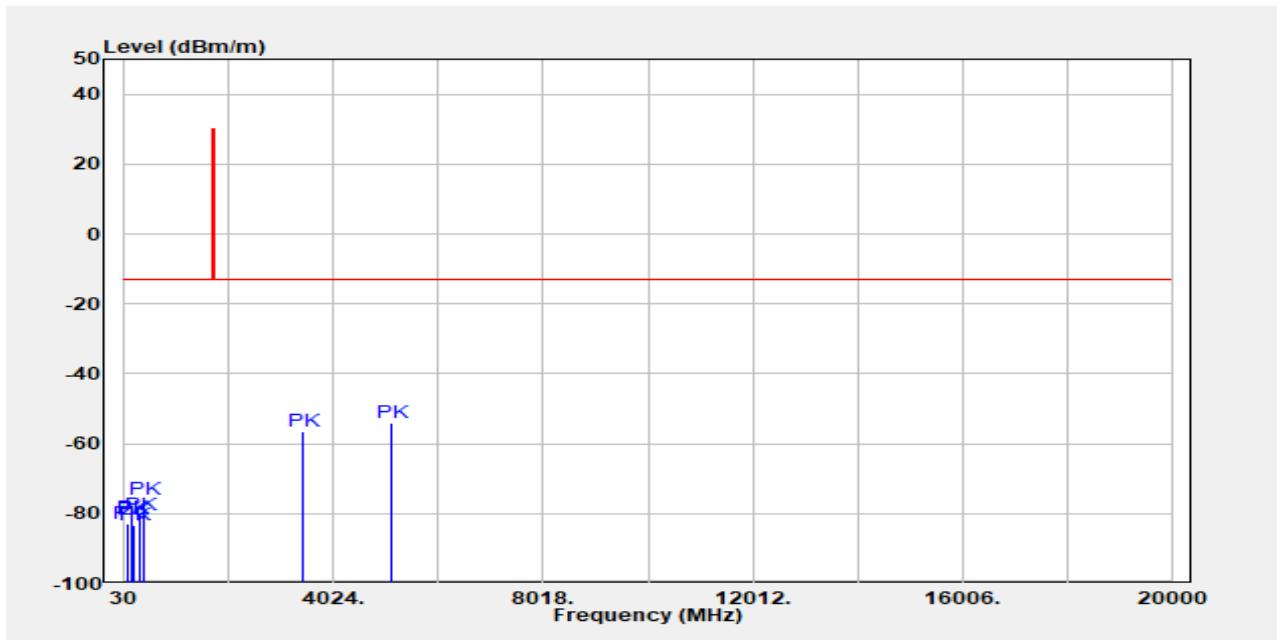
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B4 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :1712.4 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 91.171 | -82.75 | -80.16 | -0.84 | -1.75 | -13.00 | -69.75 |
| 153.313 | -81.57 | -77.87 | -1.44 | -2.26 | -13.00 | -68.57 |
| 174.675 | -81.37 | -79.40 | 0.46 | -2.42 | -13.00 | -68.37 |
| 222.252 | -83.48 | -85.61 | 4.86 | -2.72 | -13.00 | -70.48 |
| 311.582 | -80.66 | -81.23 | 3.79 | -3.22 | -13.00 | -67.66 |
| 399.940 | -76.10 | -76.37 | 3.92 | -3.65 | -13.00 | -63.10 |
| 3424.800 | -56.57 | -58.21 | 12.55 | -10.91 | -13.00 | -43.57 |
| 5137.200 | -53.93 | -52.83 | 12.40 | -13.49 | -13.00 | -40.93 |

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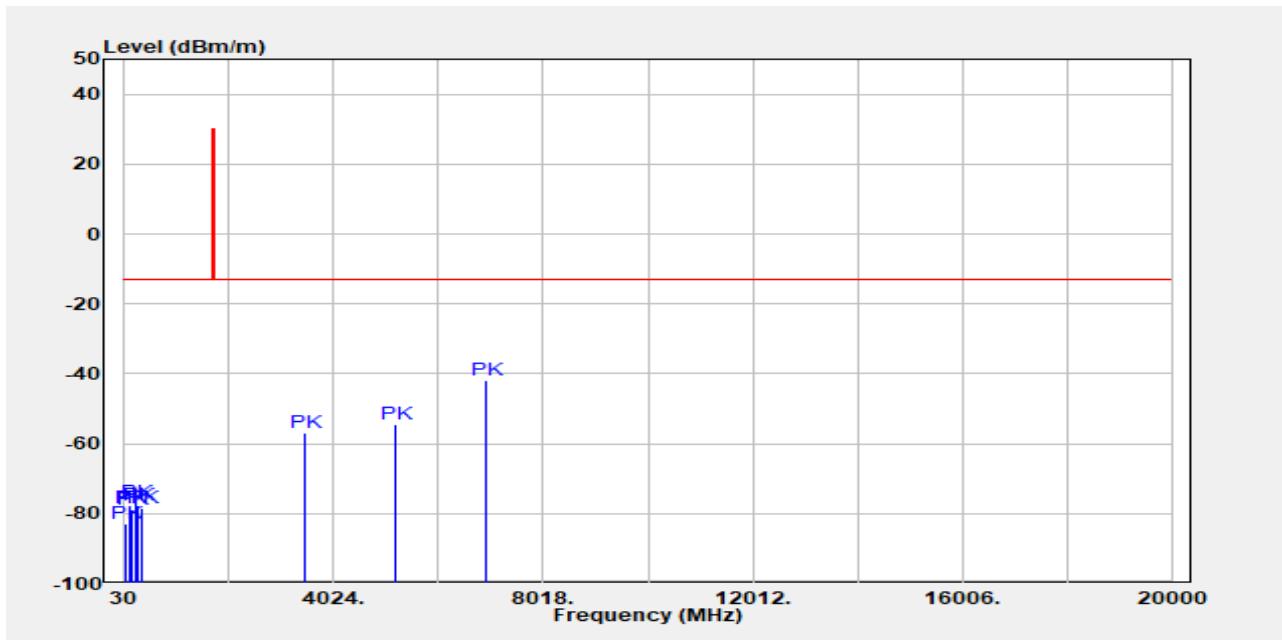
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B4 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :1732.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 56.216 | -83.09 | -70.91 | -10.80 | -1.37 | -13.00 | -70.09 |
| 129.039 | -78.59 | -74.80 | -1.71 | -2.08 | -13.00 | -65.59 |
| 182.442 | -78.90 | -78.08 | 1.65 | -2.47 | -13.00 | -65.90 |
| 231.962 | -76.94 | -78.59 | 4.43 | -2.78 | -13.00 | -63.94 |
| 279.540 | -77.65 | -78.30 | 3.72 | -3.06 | -13.00 | -64.65 |
| 343.624 | -78.33 | -78.97 | 4.03 | -3.38 | -13.00 | -65.33 |
| 3465.200 | -56.83 | -58.42 | 12.57 | -10.97 | -13.00 | -43.83 |
| 5197.800 | -54.67 | -53.78 | 12.69 | -13.58 | -13.00 | -41.67 |
| 6930.400 | -41.72 | -37.82 | 11.88 | -15.78 | -13.00 | -28.72 |

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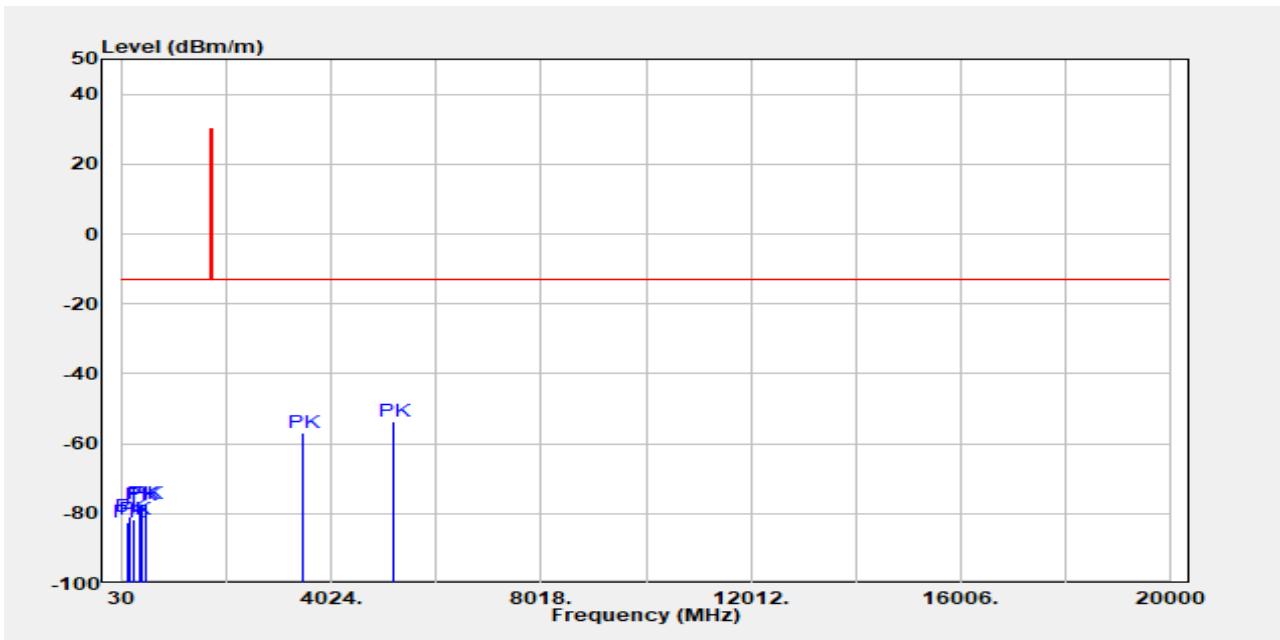
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Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B4 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :1732.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 119.329 | -82.67 | -79.14 | -1.52 | -2.00 | -13.00 | -69.67 |
| 168.849 | -80.93 | -78.28 | -0.27 | -2.38 | -13.00 | -67.93 |
| 227.107 | -81.90 | -84.03 | 4.89 | -2.75 | -13.00 | -68.90 |
| 353.333 | -77.79 | -78.60 | 4.24 | -3.43 | -13.00 | -64.79 |
| 394.114 | -77.13 | -77.42 | 3.91 | -3.62 | -13.00 | -64.13 |
| 475.676 | -77.31 | -77.34 | 4.01 | -3.98 | -13.00 | -64.31 |
| 3465.200 | -56.85 | -58.44 | 12.57 | -10.97 | -13.00 | -43.85 |
| 5197.800 | -53.59 | -52.70 | 12.69 | -13.58 | -13.00 | -40.59 |

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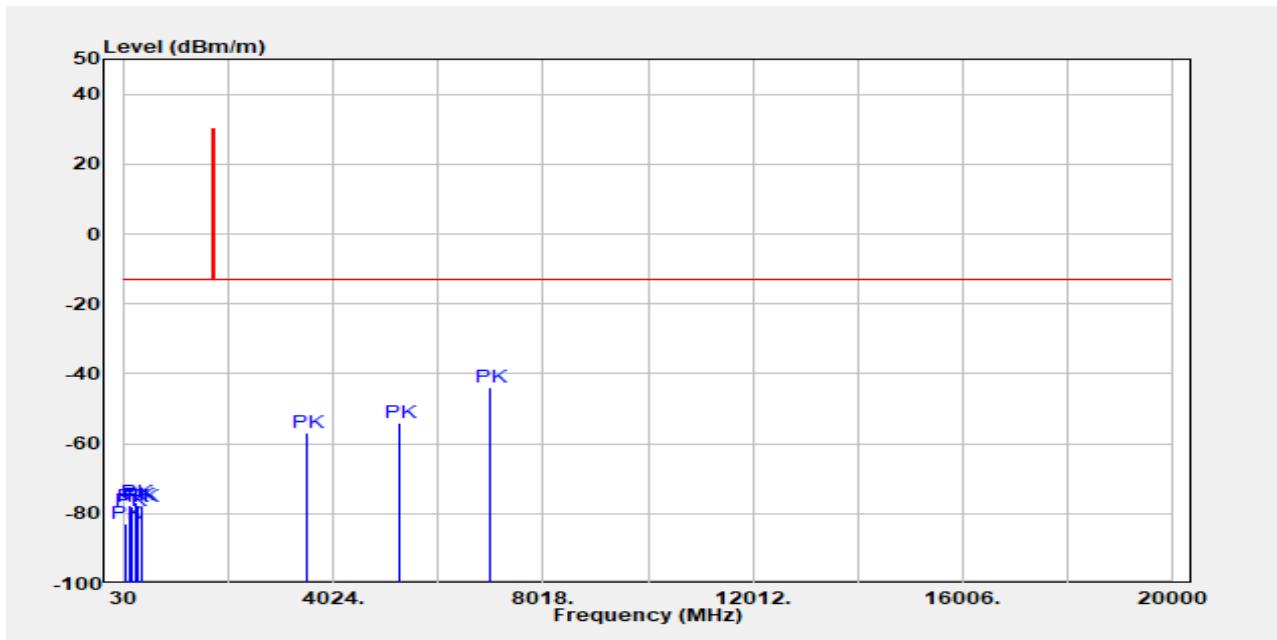
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B4 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :1752.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 49.419 | -83.00 | -69.60 | -12.10 | -1.29 | -13.00 | -70.00 |
| 142.633 | -79.46 | -75.44 | -1.83 | -2.18 | -13.00 | -66.46 |
| 180.501 | -78.17 | -77.03 | 1.31 | -2.45 | -13.00 | -65.17 |
| 228.078 | -76.84 | -78.91 | 4.83 | -2.76 | -13.00 | -63.84 |
| 281.482 | -77.75 | -78.39 | 3.71 | -3.07 | -13.00 | -64.75 |
| 369.840 | -77.98 | -78.61 | 4.14 | -3.51 | -13.00 | -64.98 |
| 3505.200 | -56.77 | -58.20 | 12.47 | -11.04 | -13.00 | -43.77 |
| 5257.800 | -54.09 | -53.48 | 13.05 | -13.66 | -13.00 | -41.09 |
| 7010.400 | -44.10 | -39.65 | 11.44 | -15.88 | -13.00 | -31.10 |

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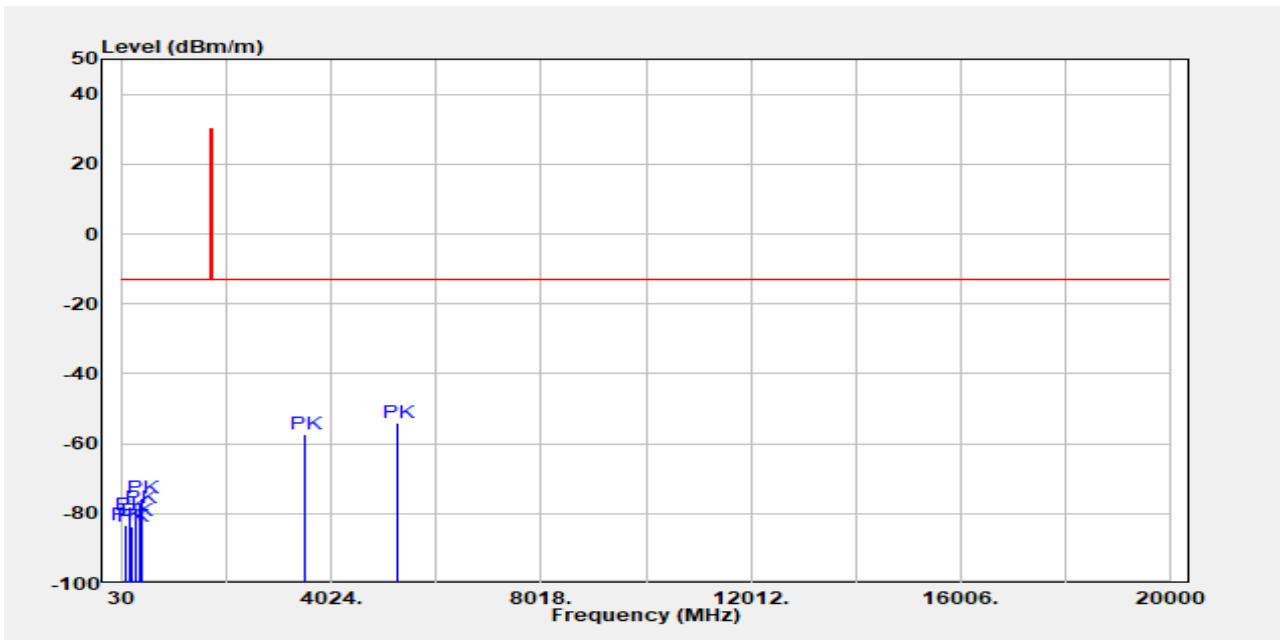
t (886-2) 2299-3279

f (886-2) 2298-0488

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Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B4 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :1752.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 90.200 | -83.20 | -80.54 | -0.92 | -1.74 | -13.00 | -70.20 |
| 167.878 | -80.54 | -77.83 | -0.33 | -2.37 | -13.00 | -67.54 |
| 211.572 | -83.82 | -85.55 | 4.39 | -2.66 | -13.00 | -70.82 |
| 299.930 | -81.92 | -82.58 | 3.82 | -3.16 | -13.00 | -68.92 |
| 348.479 | -78.35 | -79.07 | 4.12 | -3.40 | -13.00 | -65.35 |
| 406.737 | -75.48 | -75.77 | 3.97 | -3.68 | -13.00 | -62.48 |
| 3505.200 | -57.14 | -58.57 | 12.47 | -11.04 | -13.00 | -44.14 |
| 5257.800 | -54.07 | -53.45 | 13.05 | -13.66 | -13.00 | -41.07 |

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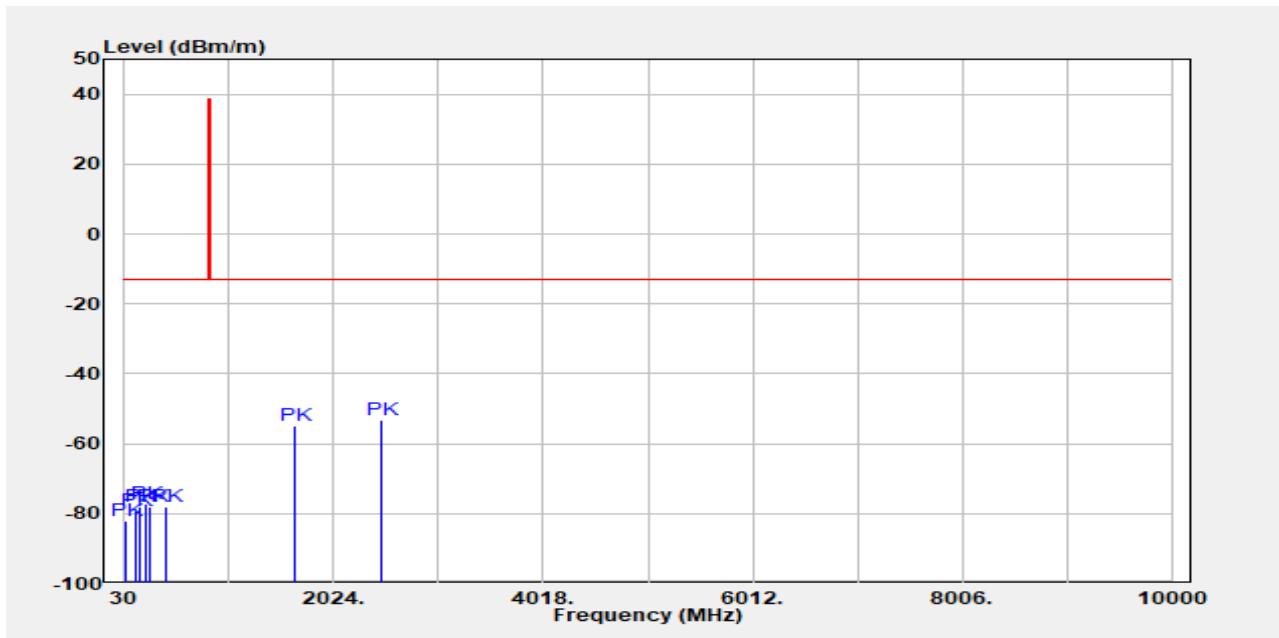
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B5 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :826.4 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 47.477 | -82.28 | -68.73 | -12.29 | -1.26 | -13.00 | -69.28 |
| 143.604 | -79.46 | -75.44 | -1.83 | -2.19 | -13.00 | -66.46 |
| 178.559 | -78.17 | -76.80 | 1.07 | -2.44 | -13.00 | -65.17 |
| 227.107 | -77.39 | -79.53 | 4.89 | -2.75 | -13.00 | -64.39 |
| 280.511 | -78.07 | -78.72 | 3.72 | -3.06 | -13.00 | -65.07 |
| 416.446 | -77.85 | -78.27 | 4.14 | -3.72 | -13.00 | -64.85 |
| 1652.800 | -54.98 | -57.12 | 9.60 | -7.47 | -13.00 | -41.98 |
| 2479.200 | -53.28 | -54.64 | 10.60 | -9.23 | -13.00 | -40.28 |

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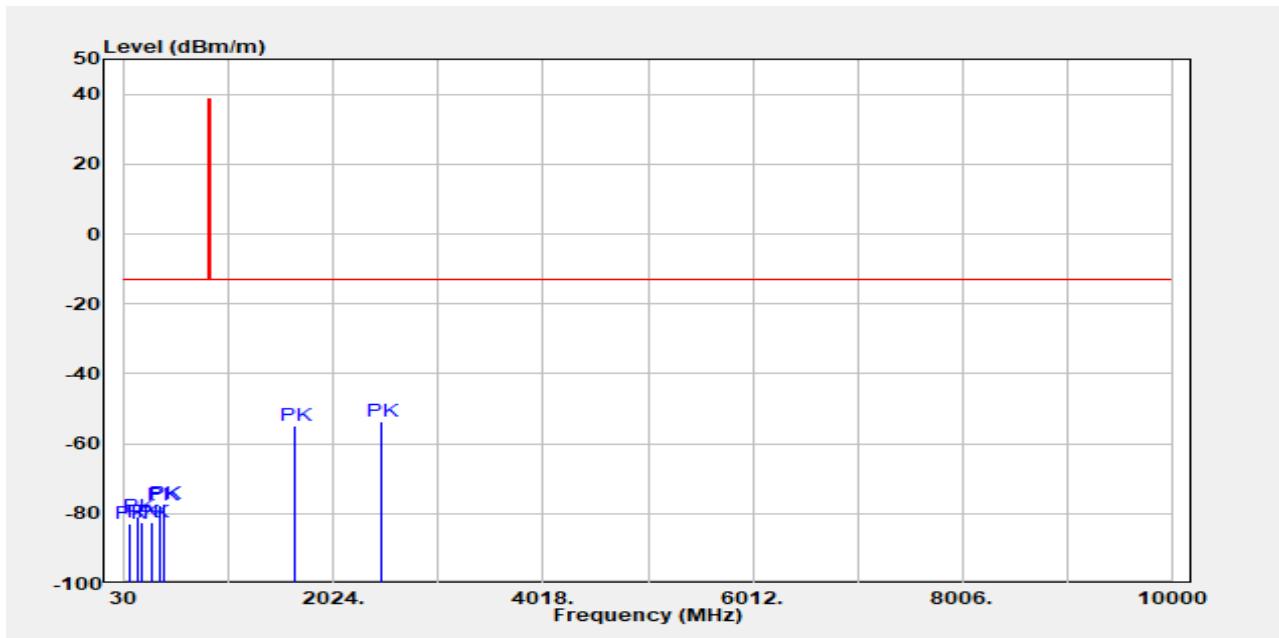
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B5 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :826.4 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 88.258 | -83.12 | -80.29 | -1.10 | -1.72 | -13.00 | -70.12 |
| 164.965 | -81.09 | -78.26 | -0.48 | -2.35 | -13.00 | -68.09 |
| 202.833 | -82.72 | -83.99 | 3.88 | -2.61 | -13.00 | -69.72 |
| 286.336 | -82.57 | -83.17 | 3.69 | -3.09 | -13.00 | -69.57 |
| 376.637 | -77.50 | -77.99 | 4.03 | -3.54 | -13.00 | -64.50 |
| 403.824 | -77.13 | -77.39 | 3.93 | -3.67 | -13.00 | -64.13 |
| 1652.800 | -54.76 | -56.89 | 9.60 | -7.47 | -13.00 | -41.76 |
| 2479.200 | -53.76 | -55.13 | 10.60 | -9.23 | -13.00 | -40.76 |

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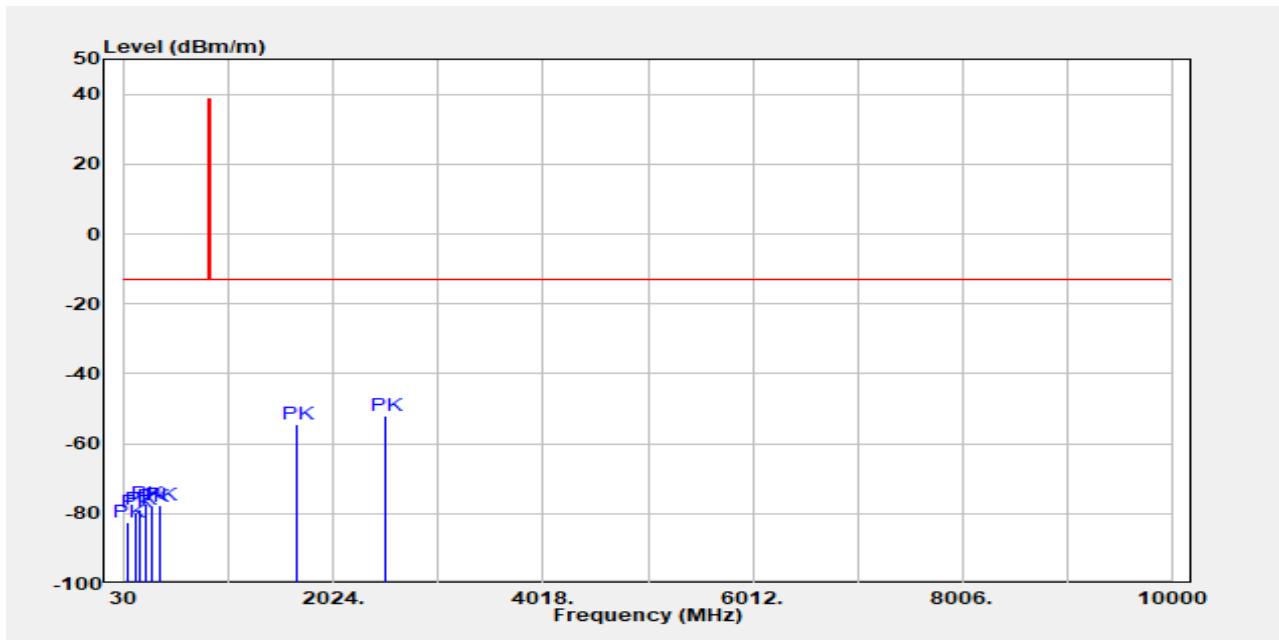
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
 Operation Mode :WCDMA B5 Test Date :2025-03-18
 Test Mode :Tx Temp./Humi. :19.3°C/46%
 EUT Pol :H Plane Antenna Pol. :Vertical
 Test Frequency :836.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 55.245 | -82.58 | -70.32 | -10.90 | -1.36 | -13.00 | -69.58 |
| 130.981 | -79.68 | -75.81 | -1.77 | -2.10 | -13.00 | -66.68 |
| 175.646 | -79.06 | -77.17 | 0.54 | -2.42 | -13.00 | -66.06 |
| 230.020 | -77.36 | -79.30 | 4.71 | -2.77 | -13.00 | -64.36 |
| 281.482 | -77.89 | -78.53 | 3.71 | -3.07 | -13.00 | -64.89 |
| 368.869 | -77.63 | -78.28 | 4.16 | -3.50 | -13.00 | -64.63 |
| 1673.200 | -54.45 | -56.64 | 9.70 | -7.52 | -13.00 | -41.45 |
| 2509.800 | -52.19 | -53.60 | 10.70 | -9.29 | -13.00 | -39.19 |

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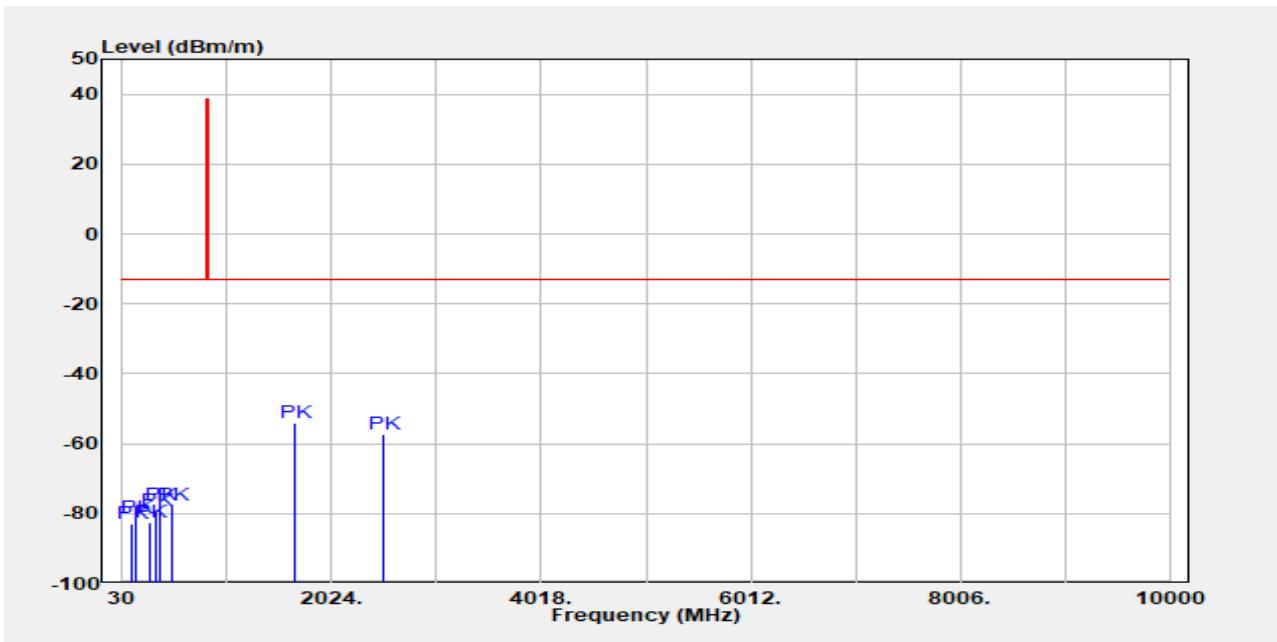
t (886-2) 2299-3279

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Report Number :TERF2501000192ER Test Site :SAC 3
 Operation Mode :WCDMA B5 Test Date :2025-03-18
 Test Mode :Tx Temp./Humi. :19.3°C/46%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :836.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 118.358 | -82.98 | -79.43 | -1.55 | -2.00 | -13.00 | -69.98 |
| 161.081 | -81.20 | -77.91 | -0.97 | -2.32 | -13.00 | -68.20 |
| 281.482 | -82.58 | -83.22 | 3.71 | -3.07 | -13.00 | -69.58 |
| 340.711 | -79.09 | -79.73 | 4.01 | -3.37 | -13.00 | -66.09 |
| 379.550 | -77.56 | -77.98 | 3.99 | -3.56 | -13.00 | -64.56 |
| 497.037 | -77.51 | -77.45 | 4.01 | -4.07 | -13.00 | -64.51 |
| 1673.200 | -54.00 | -56.19 | 9.70 | -7.52 | -13.00 | -41.00 |
| 2509.800 | -57.40 | -58.81 | 10.70 | -9.29 | -13.00 | -44.40 |

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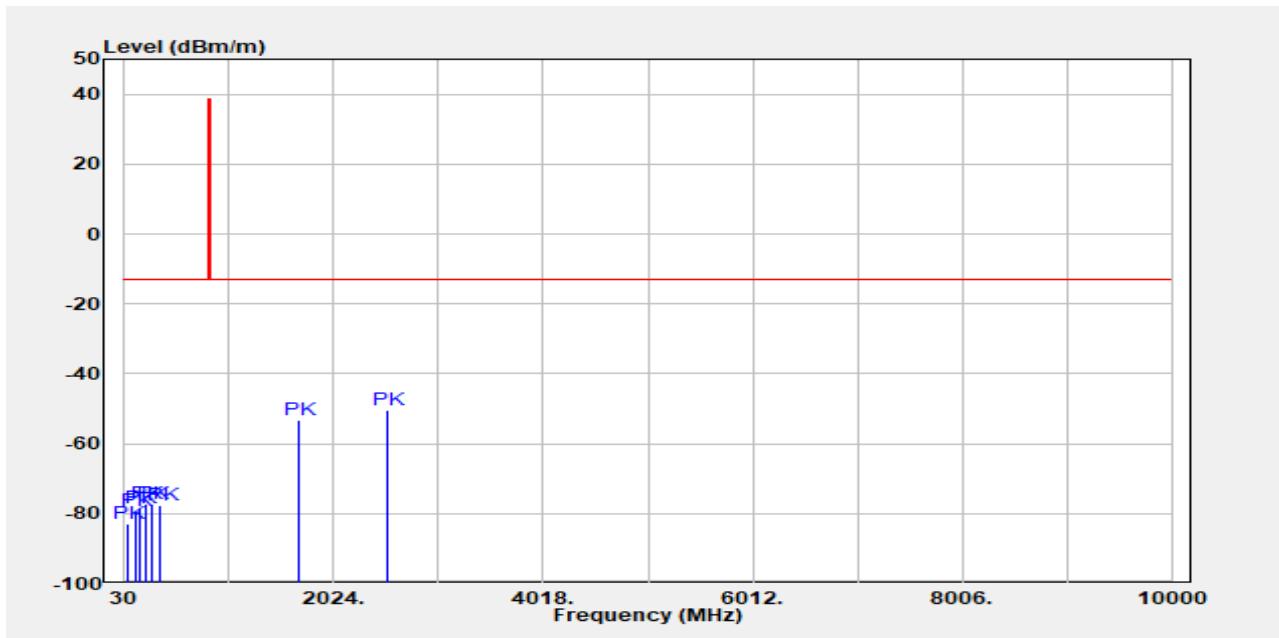
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f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2501000192ER Test Site :SAC 3
 Operation Mode :WCDMA B5 Test Date :2025-03-18
 Test Mode :Tx Temp./Humi. :19.3°C/46%
 EUT Pol :H Plane Antenna Pol. :Vertical
 Test Frequency :846.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 63.013 | -83.01 | -72.73 | -8.83 | -1.45 | -13.00 | -70.01 |
| 133.894 | -79.09 | -75.21 | -1.77 | -2.12 | -13.00 | -66.09 |
| 182.442 | -78.29 | -77.47 | 1.65 | -2.47 | -13.00 | -65.29 |
| 230.020 | -77.43 | -79.37 | 4.71 | -2.77 | -13.00 | -64.43 |
| 283.423 | -77.25 | -77.87 | 3.69 | -3.08 | -13.00 | -64.25 |
| 376.637 | -77.65 | -78.14 | 4.03 | -3.54 | -13.00 | -64.65 |
| 1693.200 | -53.37 | -55.57 | 9.76 | -7.56 | -13.00 | -40.37 |
| 2539.800 | -50.29 | -51.44 | 10.50 | -9.35 | -13.00 | -37.29 |

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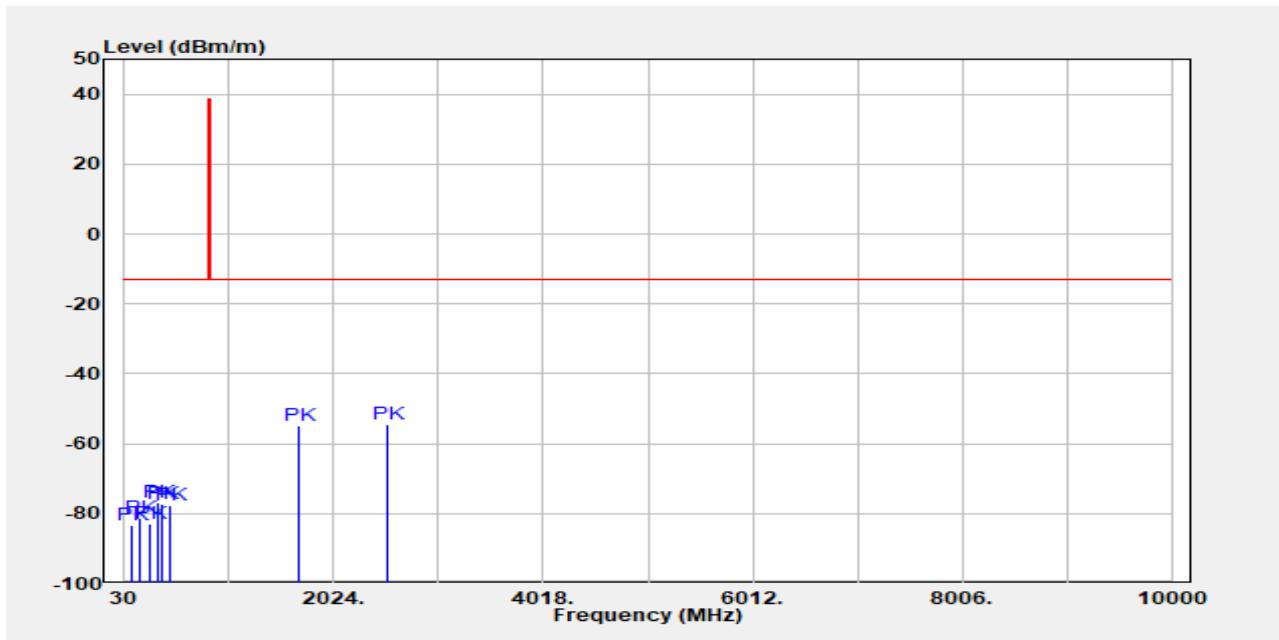
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Report Number :TERF2501000192ER Test Site :SAC 3
Operation Mode :WCDMA B5 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :846.6 MHz Engineer :Nick Lin



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|---------------------|--------------|
| 95.055 | -83.23 | -80.67 | -0.78 | -1.79 | -13.00 | -70.23 |
| 170.791 | -81.38 | -78.93 | -0.05 | -2.39 | -13.00 | -68.38 |
| 264.975 | -83.03 | -84.28 | 4.24 | -2.98 | -13.00 | -70.03 |
| 354.304 | -76.80 | -77.63 | 4.26 | -3.43 | -13.00 | -63.80 |
| 383.433 | -77.23 | -77.57 | 3.92 | -3.57 | -13.00 | -64.23 |
| 463.053 | -77.45 | -77.36 | 3.83 | -3.93 | -13.00 | -64.45 |
| 1693.200 | -54.69 | -56.89 | 9.76 | -7.56 | -13.00 | -41.69 |
| 2539.800 | -54.43 | -55.58 | 10.50 | -9.35 | -13.00 | -41.43 |

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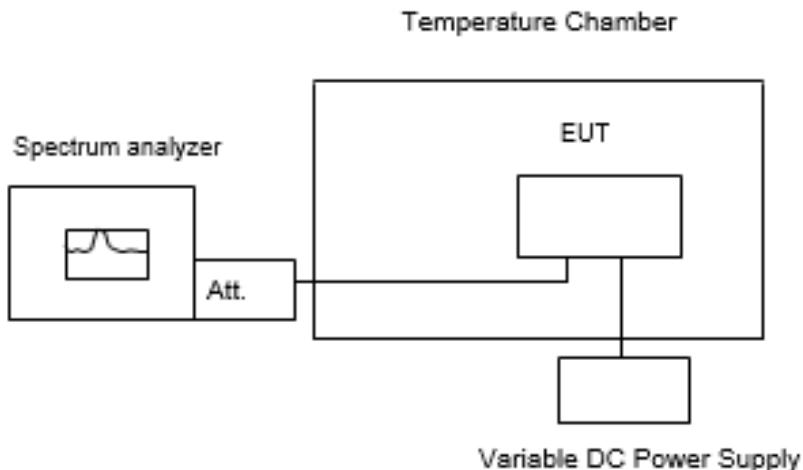
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12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4 Measurement Result

Note: The module's voltage is 3.3Vdc.

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| | | WCDMA II Mid Channel | 1880.0000 | MHz |
|------------------------------------|------------|----------------------|-----------|-------------|
| Vdc | Temp. (°C) | Freq. (MHz) | (ppm) | Limit |
| FREQUENCY ERROR vs. VOLTAGE | | | | |
| 3.795 | 20 | 1880.000004 | 0.0023 | +/- 2.5 ppm |
| 3.3 | 20 | 1879.999992 | -0.0042 | |
| 2.805 | 20 | 1879.999993 | -0.0035 | |
| 2.9 (End point) | 20 | 1879.999994 | -0.0033 | |
| FREQUENCY ERROR vs. Temp. | | | | |
| 3.3 | 50 | 1880.000009 | 0.0050 | +/- 2.5 ppm |
| 3.3 | 40 | 1879.999991 | -0.0049 | |
| 3.3 | 30 | 1880.000008 | 0.0045 | |
| 3.3 | 20 | 1879.999995 | -0.0028 | |
| 3.3 | 10 | 1880.000006 | 0.0030 | |
| 3.3 | 0 | 1879.999993 | -0.0036 | |
| 3.3 | -10 | 1879.999997 | -0.0014 | |
| 3.3 | -20 | 1879.999991 | -0.0049 | |
| 3.3 | -30 | 1880.000008 | 0.0044 | |
| | | WCDMA IV Mid Channel | 1732.6000 | MHz |
| Vdc | Temp. (°C) | Freq. (MHz) | (ppm) | Limit |
| FREQUENCY ERROR vs. VOLTAGE | | | | |
| 3.795 | 20 | 1732.59999 | -0.0057 | +/- 2.5 ppm |
| 3.3 | 20 | 1732.60001 | 0.0057 | |
| 2.805 | 20 | 1732.599993 | -0.0040 | |
| 2.9 (End point) | 20 | 1732.600005 | 0.0028 | |
| FREQUENCY ERROR vs. Temp. | | | | |
| 3.3 | 50 | 1732.600009 | 0.0051 | +/- 2.5 ppm |
| 3.3 | 40 | 1732.599997 | -0.0015 | |
| 3.3 | 30 | 1732.599997 | -0.0016 | |
| 3.3 | 20 | 1732.600002 | 0.0014 | |
| 3.3 | 10 | 1732.599996 | -0.0023 | |
| 3.3 | 0 | 1732.600001 | 0.0008 | |
| 3.3 | -10 | 1732.600006 | 0.0033 | |
| 3.3 | -20 | 1732.600004 | 0.0022 | |
| 3.3 | -30 | 1732.599996 | -0.0022 | |

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| WCDMA V Mid Channel | | 836.6000 | MHz | |
|------------------------------------|------------|-------------|---------|-------------|
| Vdc | Temp. (°C) | Freq. (MHz) | (ppm) | Limit |
| FREQUENCY ERROR vs. VOLTAGE | | | | |
| 3.795 | 20 | 836.5999946 | -0.0065 | +/- 2.5 ppm |
| 3.3 | 20 | 836.5999905 | -0.0114 | |
| 2.805 | 20 | 836.5999925 | -0.0089 | |
| 2.9 (End point) | 20 | 836.5999941 | -0.0071 | |
| FREQUENCY ERROR vs. Temp. | | | | |
| 3.3 | 50 | 836.600002 | 0.0024 | +/- 2.5 ppm |
| 3.3 | 40 | 836.5999918 | -0.0098 | |
| 3.3 | 30 | 836.6000095 | 0.0114 | |
| 3.3 | 20 | 836.5999951 | -0.0059 | |
| 3.3 | 10 | 836.5999928 | -0.0086 | |
| 3.3 | 0 | 836.6000032 | 0.0038 | |
| 3.3 | -10 | 836.5999937 | -0.0076 | |
| 3.3 | -20 | 836.6000087 | 0.0104 | |
| 3.3 | -30 | 836.5999975 | -0.0030 | |

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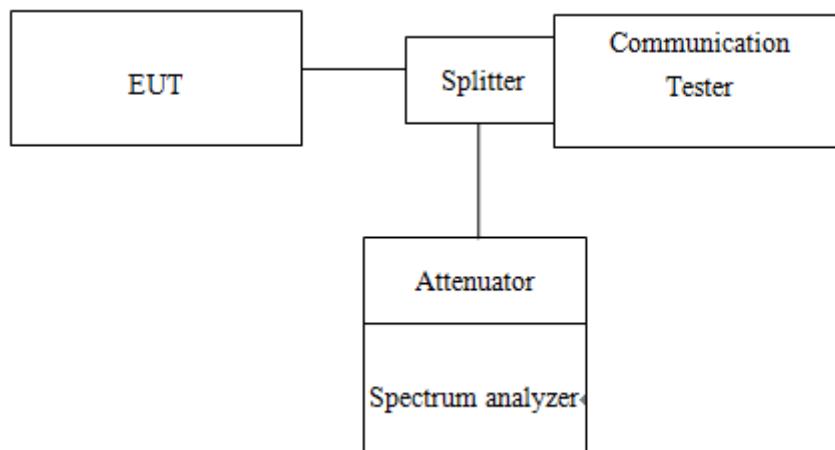
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13 PEAK TO AVERAGE RATIO

13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

13.2 Test SET-UP



13.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4 Measurement Result

| Freq. (MHz) | CH | Peak-to-Average Ratio (dB) | | |
|----------------|------|----------------------------|-------------|-------------|
| | | WCDMA II | HSDPA II | HSUPA II |
| 1852.4 | 9262 | 3.10 | 4.47 | 3.86 |
| 1880 | 9400 | 3.37 | 4.47 | 4.09 |
| 1907.6 | 9538 | 3.05 | 3.66 | 3.29 |
| Freq. (MHz) | CH | Peak-to-Average Ratio (dB) | | |
| | | WCDMA IV | HSDPA IV | HSUPA IV |
| 1712.4 | 1312 | 3.32 | 4.40 | 3.39 |
| 1732.6 | 1413 | 2.83 | 4.82 | 3.55 |
| 1752.6 | 1513 | 3.06 | 4.12 | 3.55 |

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| Freq. (MHz) | CH | Peak-to-Average Ratio (dB) | | |
|----------------|------|----------------------------|-------------|-------------|
| | | WCDMA V | HSDPA V | HSUPA V |
| 826.4 | 4132 | 3.03 | 3.71 | 3.44 |
| 836.6 | 4183 | 3.08 | 4.05 | 3.49 |
| 846.6 | 4233 | 3.11 | 4.54 | 3.78 |

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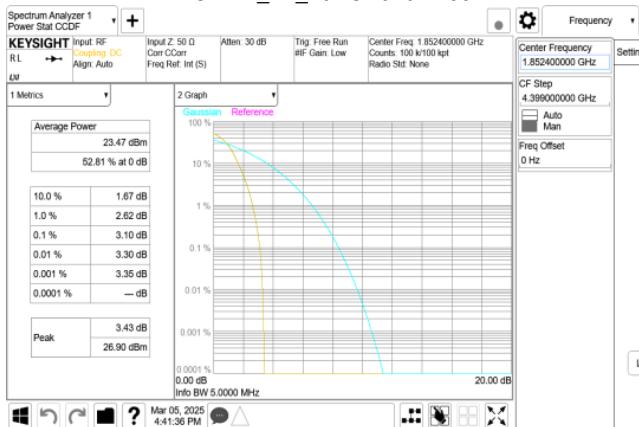
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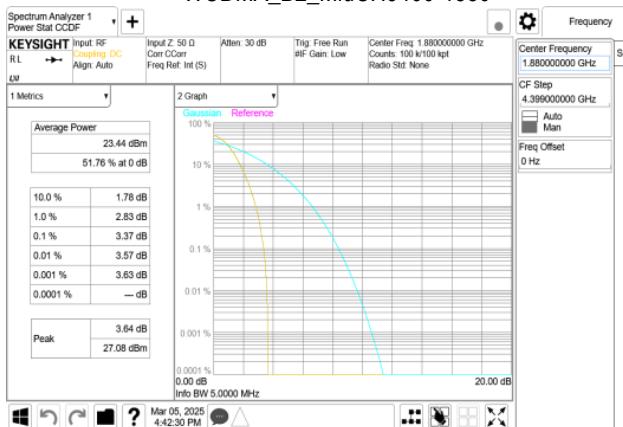
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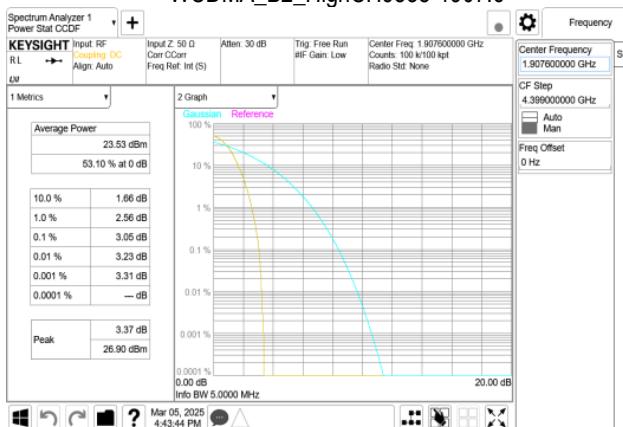
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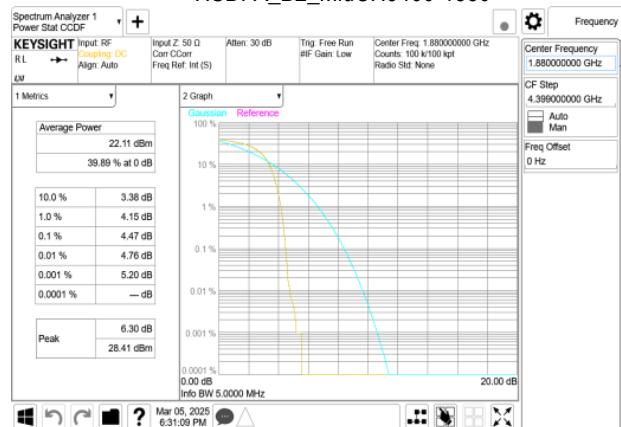
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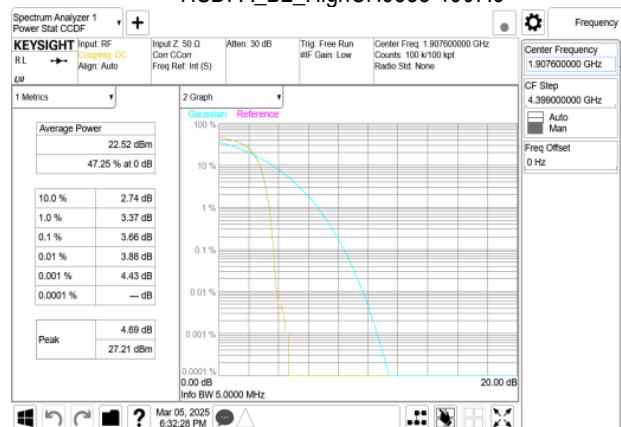
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HSDPA_B2_MidCH9400-1880



HSDPA_B2_HighCH9538-1907.6



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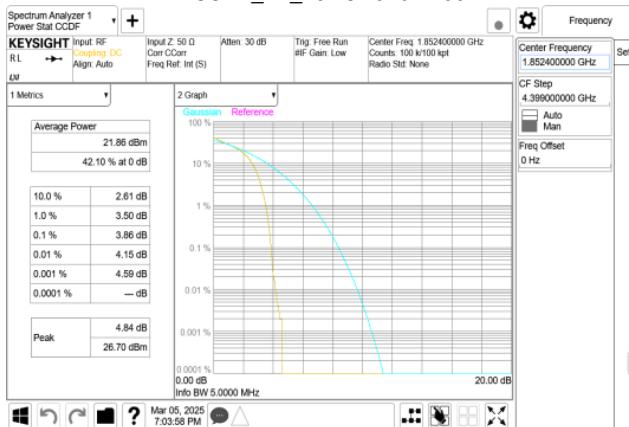
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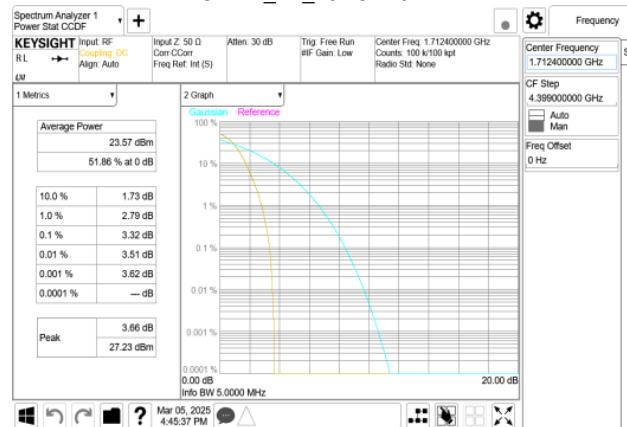
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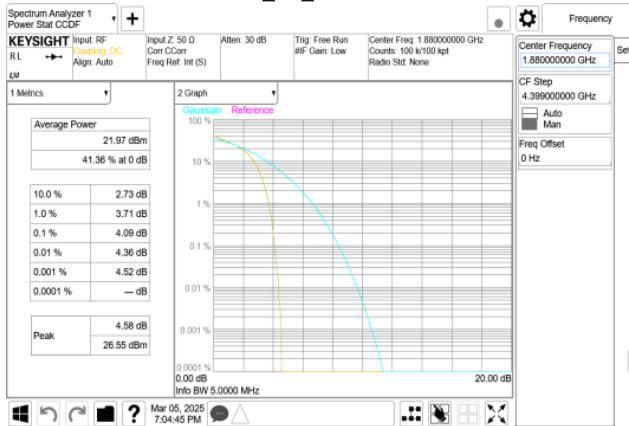
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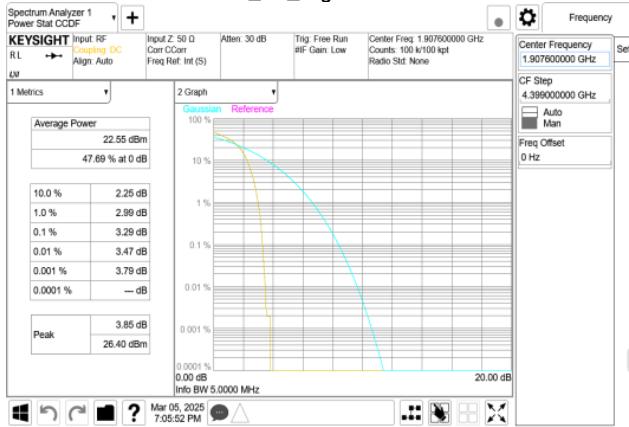
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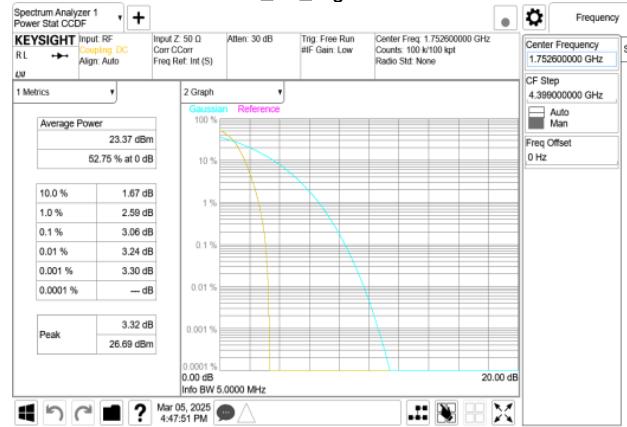
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HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6



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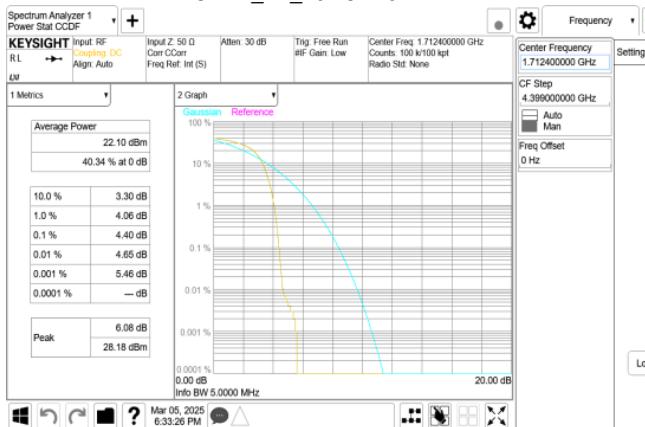
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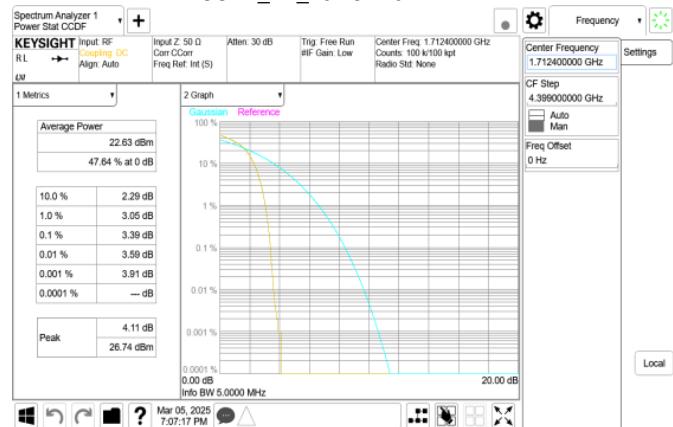
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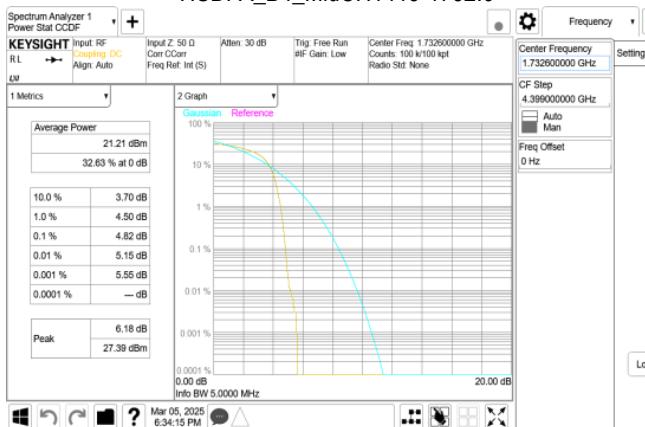
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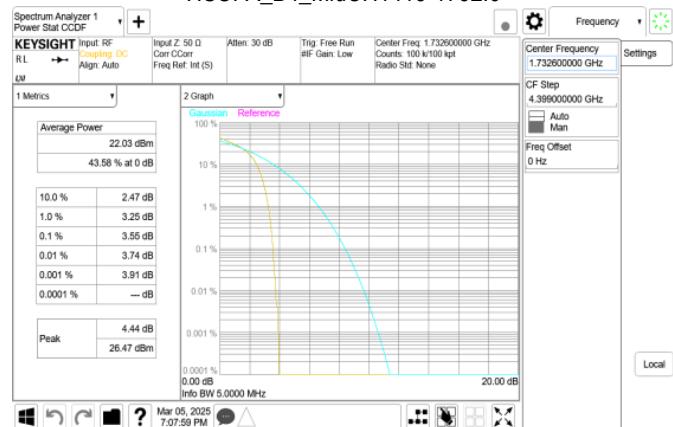
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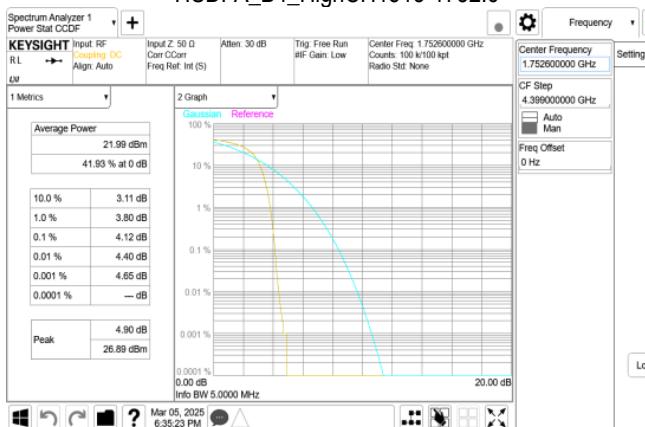
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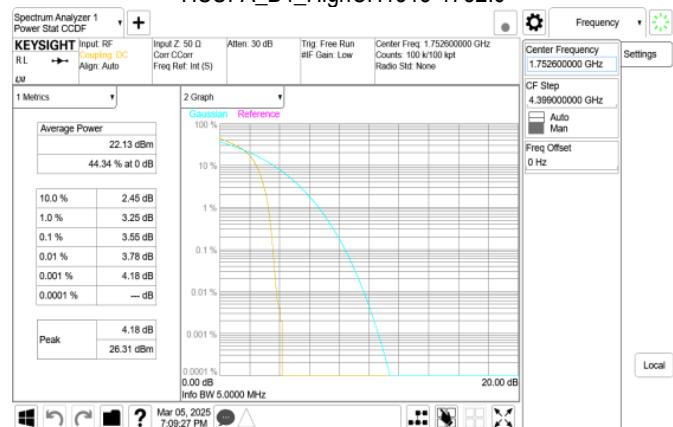
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HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



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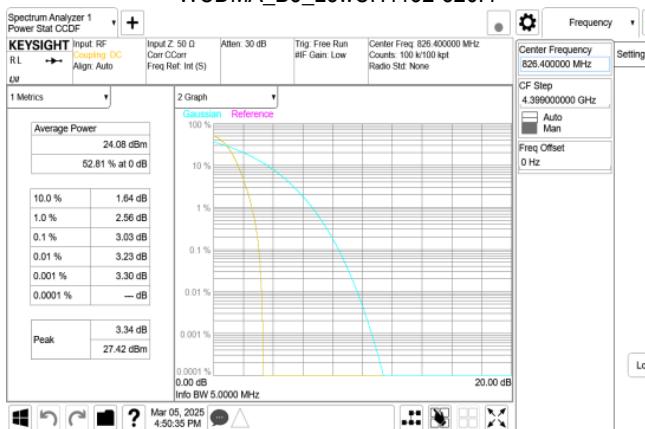
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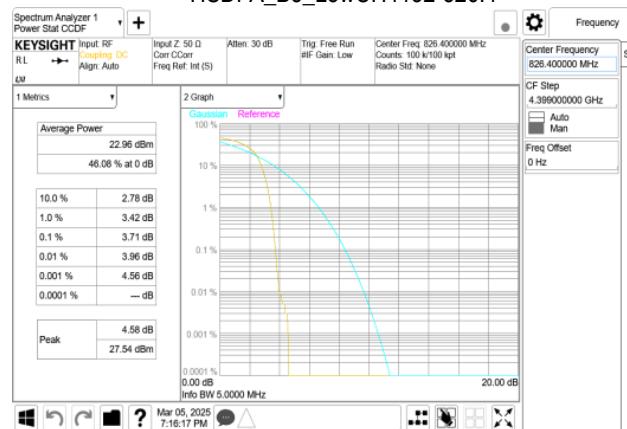
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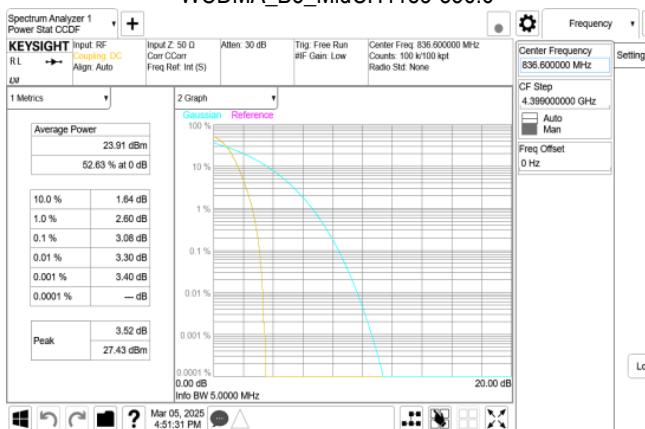
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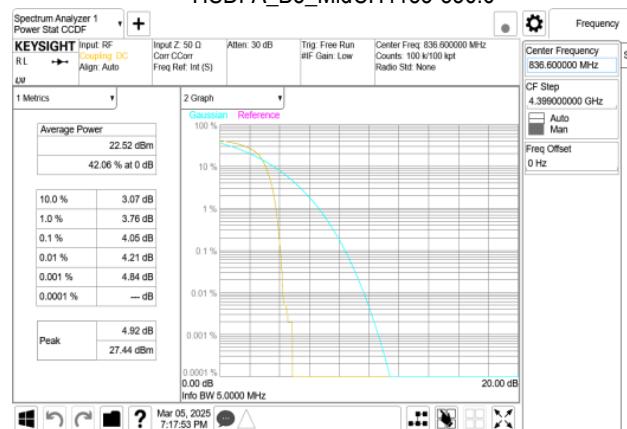
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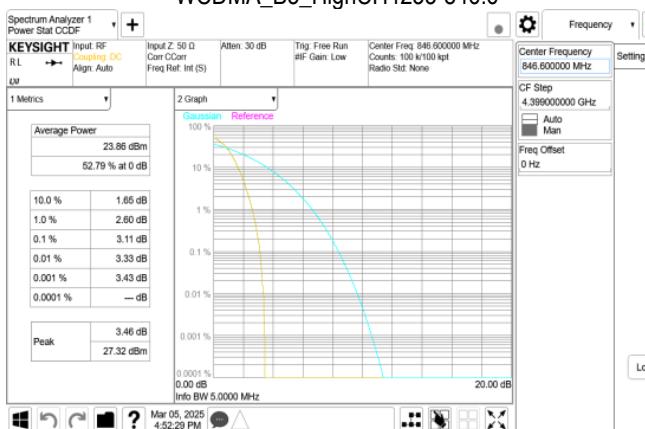
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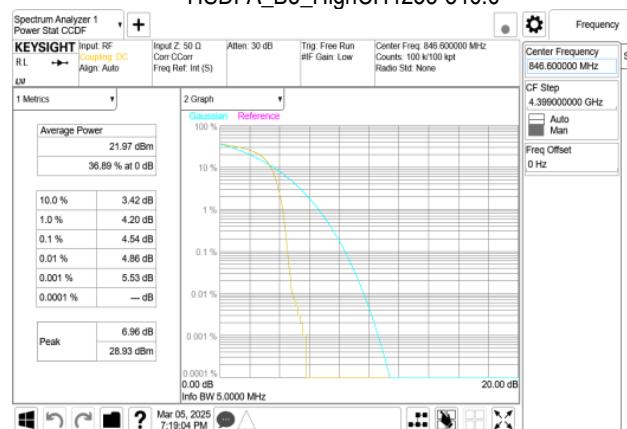
HSDPA_B5_MidCH4183-836.6



WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6



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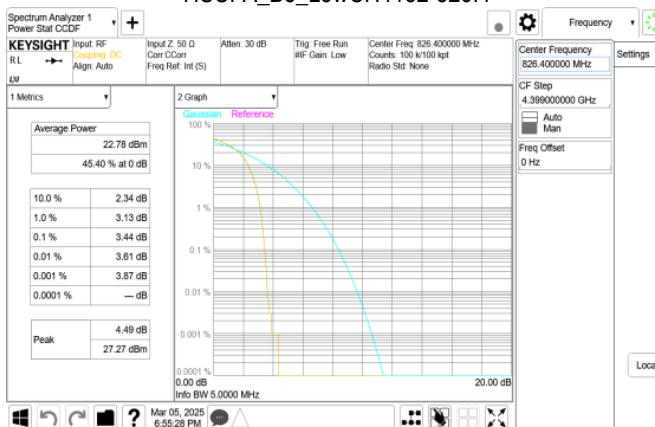
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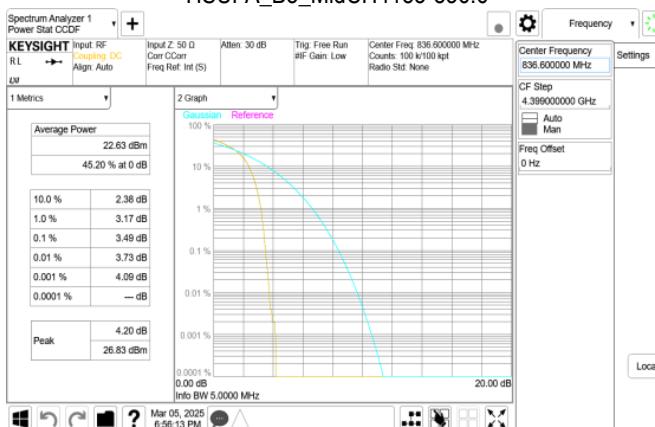
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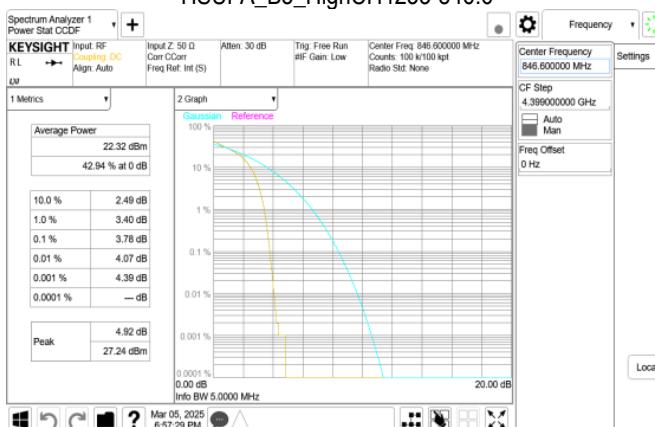
HSUPA_B5_LowCH4132-826.4



HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



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~ End of Report ~

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