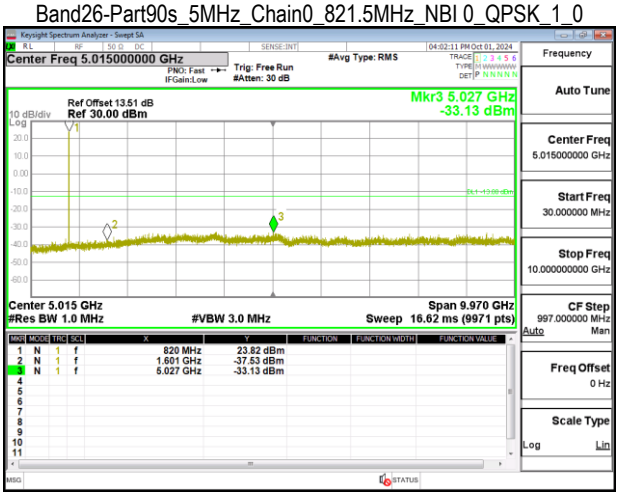
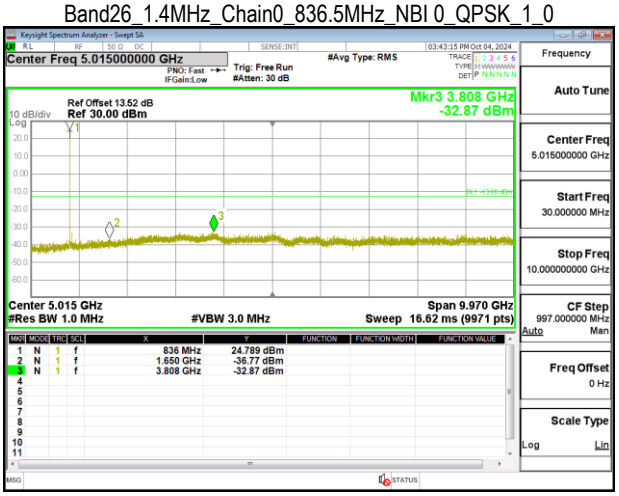
Band26-Part90s_5MHz_Chain0_821.5MHz_NBI 0_QPSK_1_0




Band26_1.4MHz_Chain0_836.5MHz_NBI 0_QPSK_1_0

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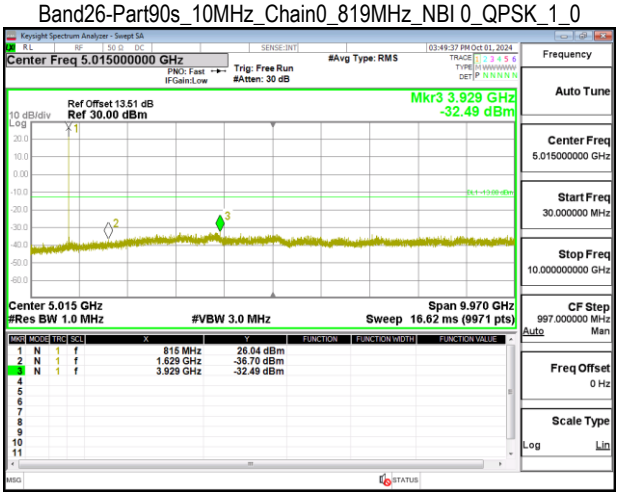


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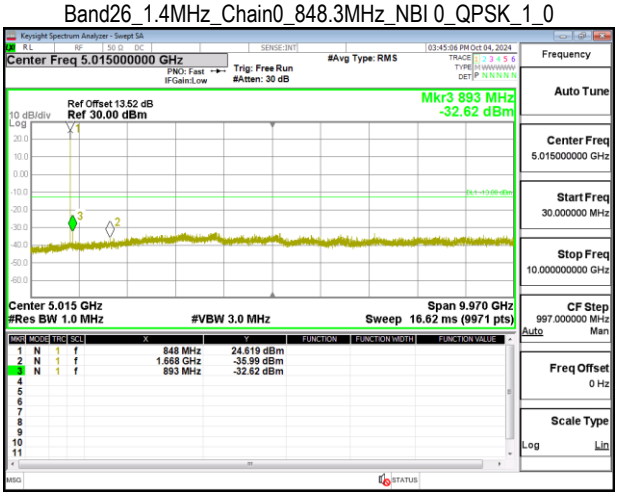


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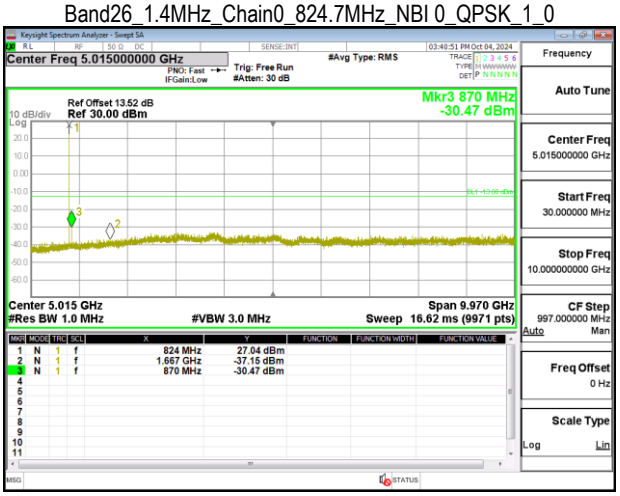
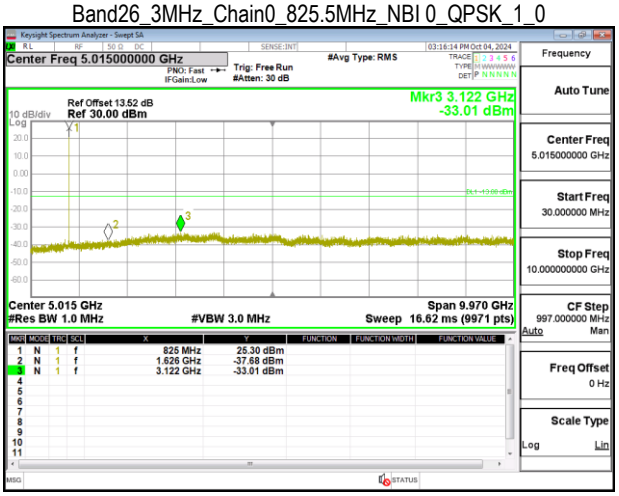



Band26_3MHz_Chain0_825.5MHz_NBI 0_QPSK_1_0

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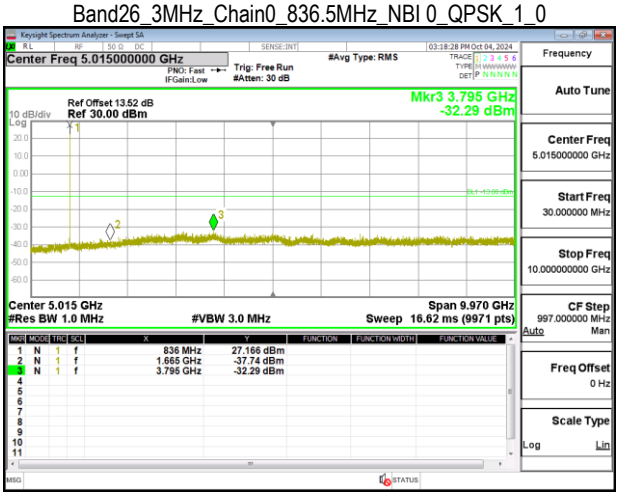
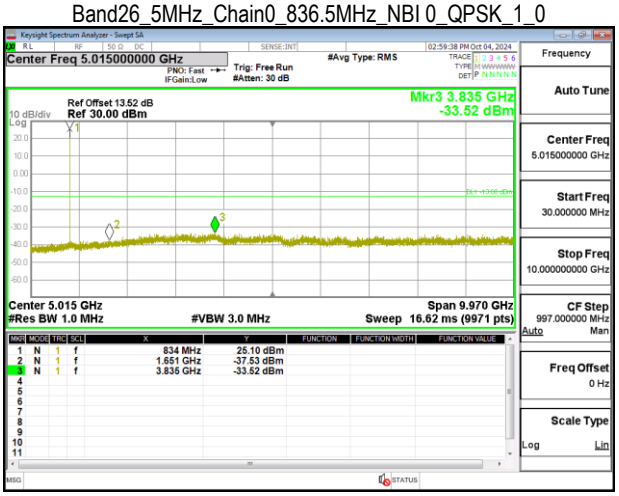
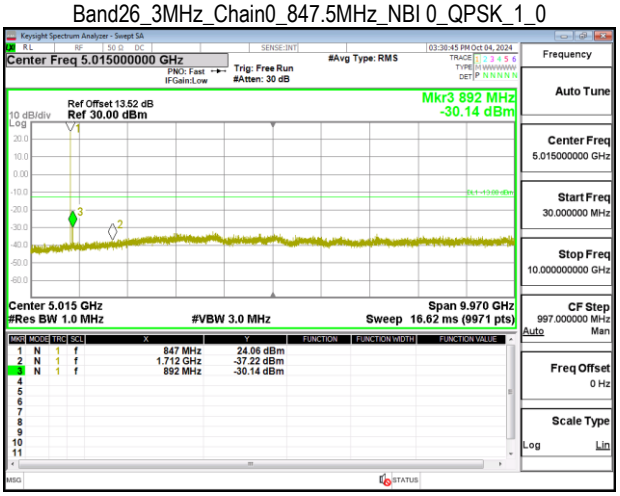
Band26_3MHz_Chain0_836.5MHz_NBI 0_QPSK_1_0




Band26_5MHz_Chain0_836.5MHz_NBI 0_QPSK_1_0




Band26_3MHz_Chain0_847.5MHz_NBI 0_QPSK_1_0

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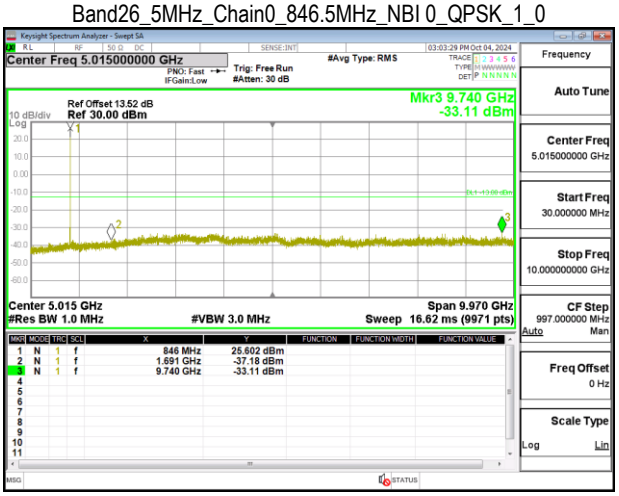
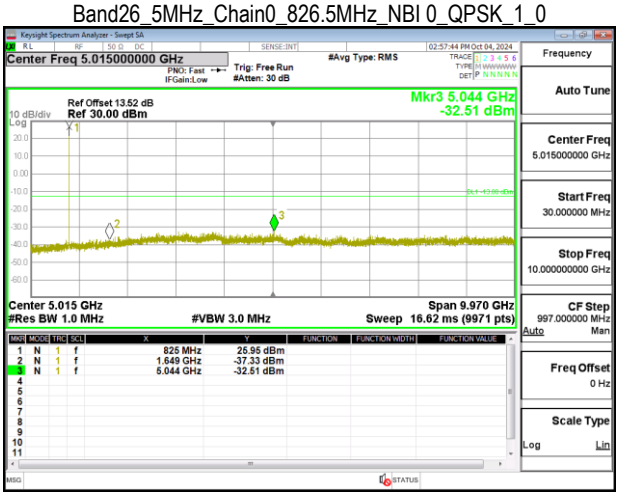
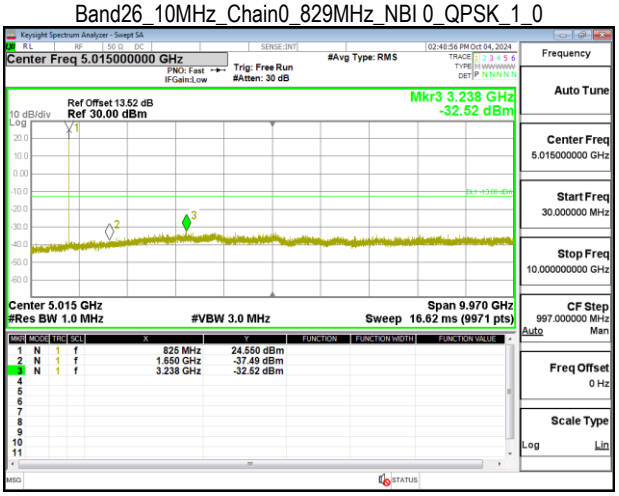



Band26_5MHz_Chain0_826.5MHz_NBI 0_QPSK_1_0




Band26_10MHz_Chain0_829MHz_NBI 0_QPSK_1_0

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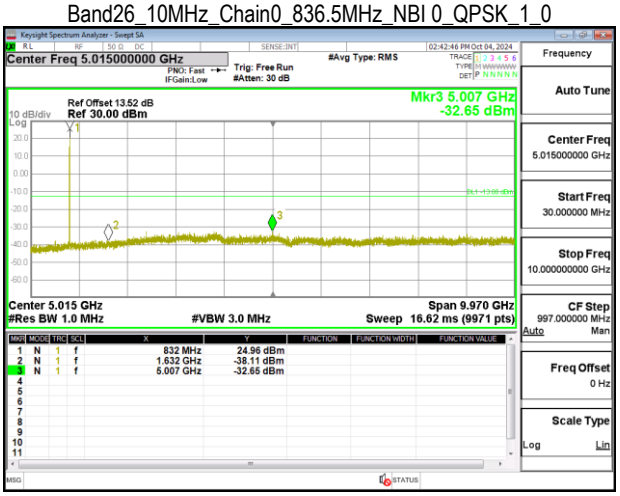
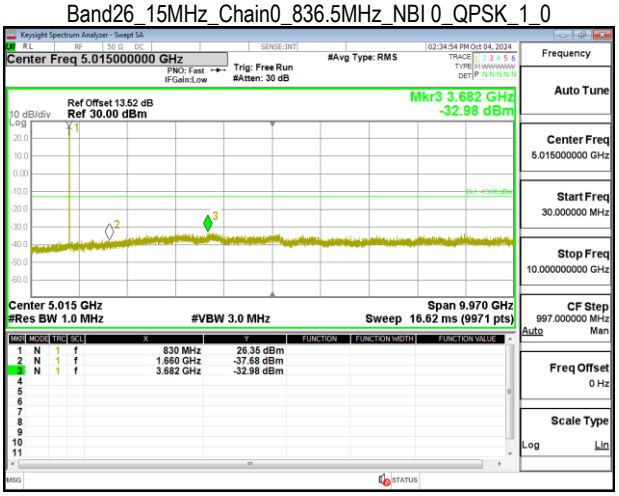
Band26_10MHz_Chain0_836.5MHz_NBI 0_QPSK_1_0




Band26_15MHz_Chain0_836.5MHz_NBI 0_QPSK_1_0

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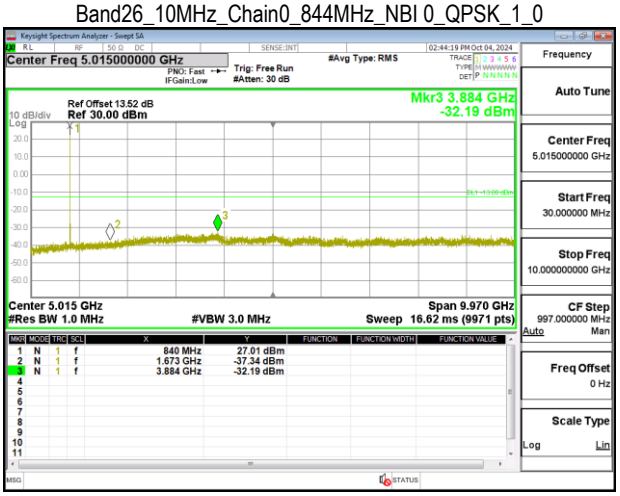
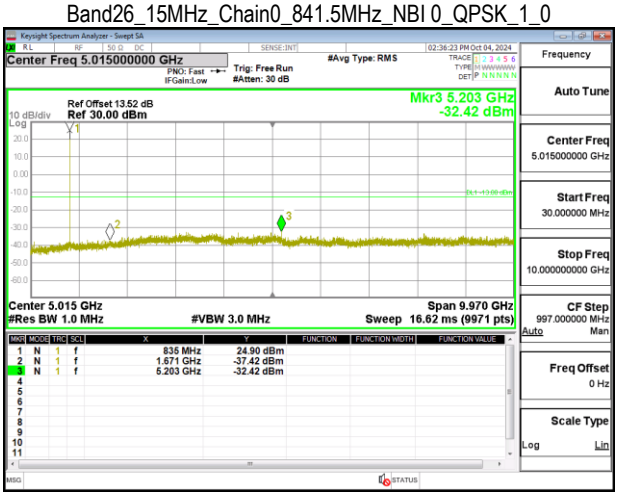
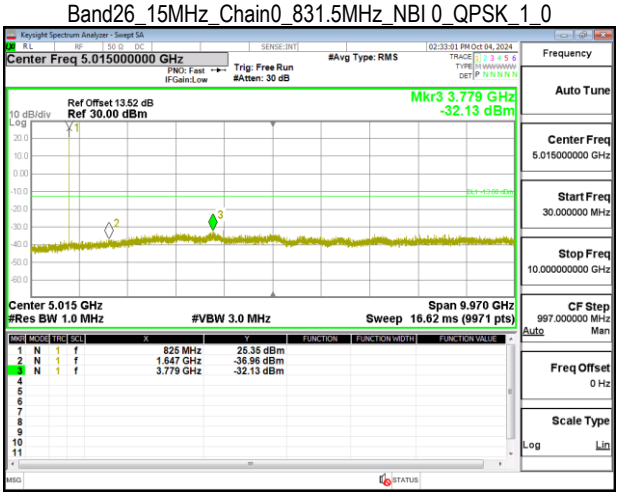


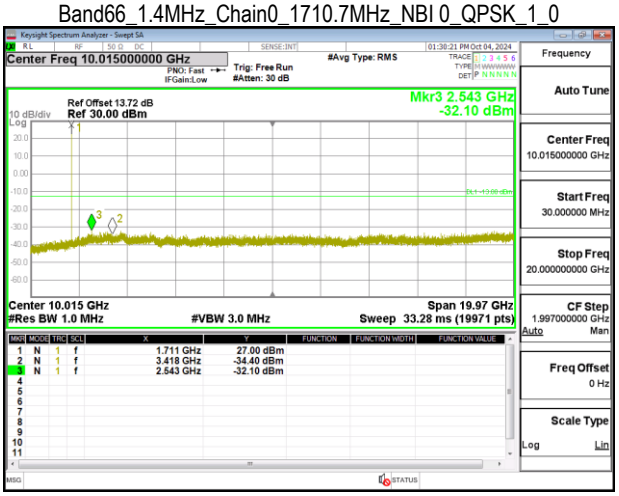

Band26_15MHz_Chain0_841.5MHz_NBI 0_QPSK_1_0




Band26_15MHz_Chain0_831.5MHz_NBI 0_QPSK_1_0




Band66_1.4MHz_Chain0_1710.7MHz_NBI 0_QPSK_1_0

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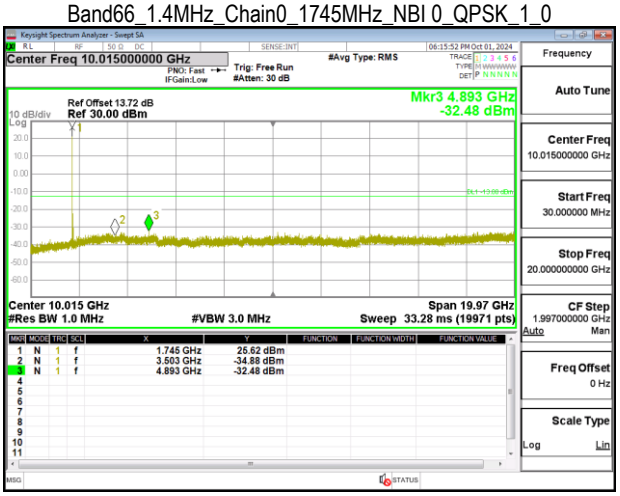
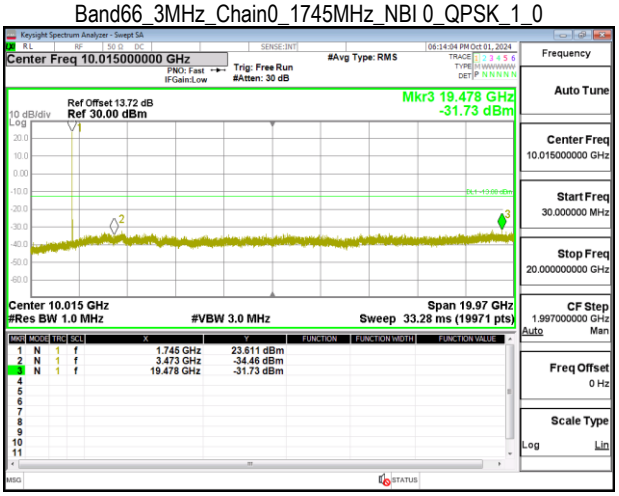
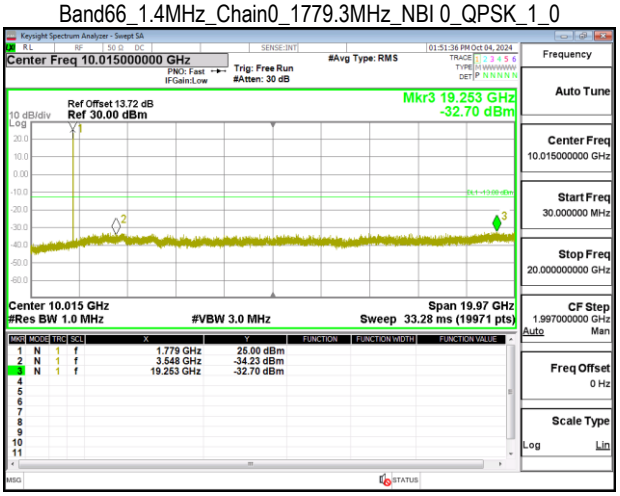
Band66_1.4MHz_Chain0_1745MHz_NBI 0_QPSK_1_0



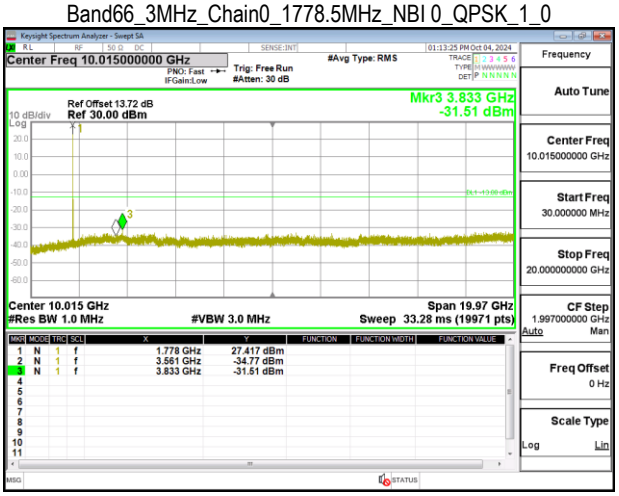

Band66_3MHz_Chain0_1745MHz_NBI 0_QPSK_1_0




Band66_1.4MHz_Chain0_1779.3MHz_NBI 0_QPSK_1_0




Band66_3MHz_Chain0_1778.5MHz_NBI 0_QPSK_1_0

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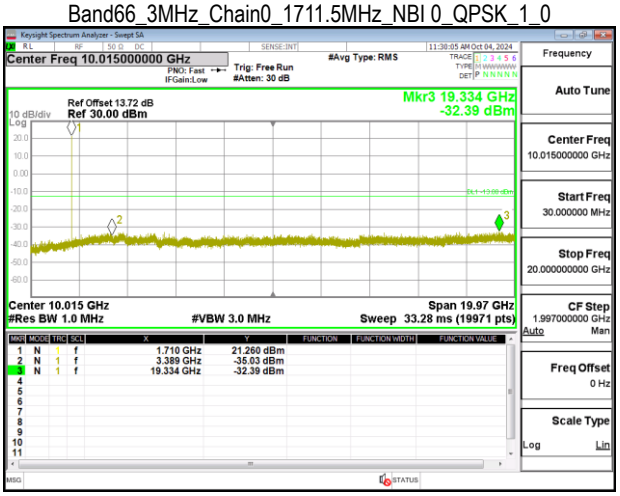
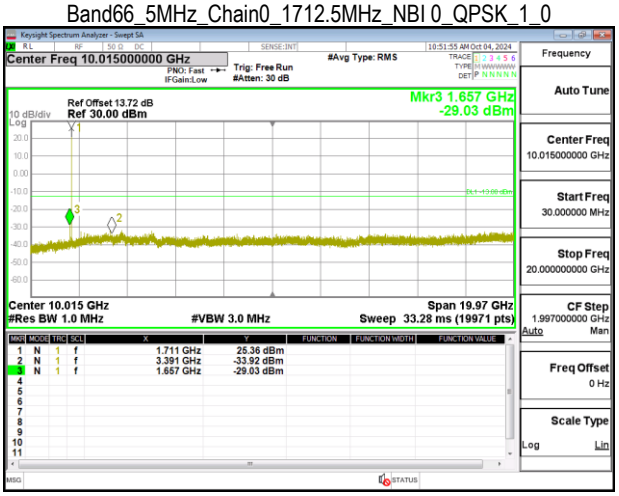



Band66_5MHz_Chain0_1712.5MHz_NBI 0_QPSK_1_0

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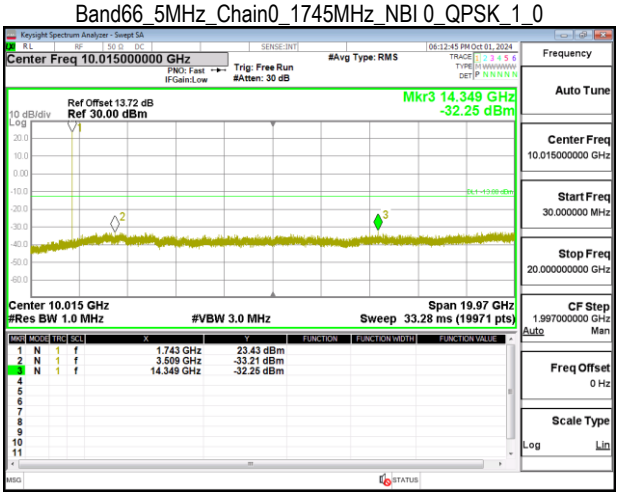
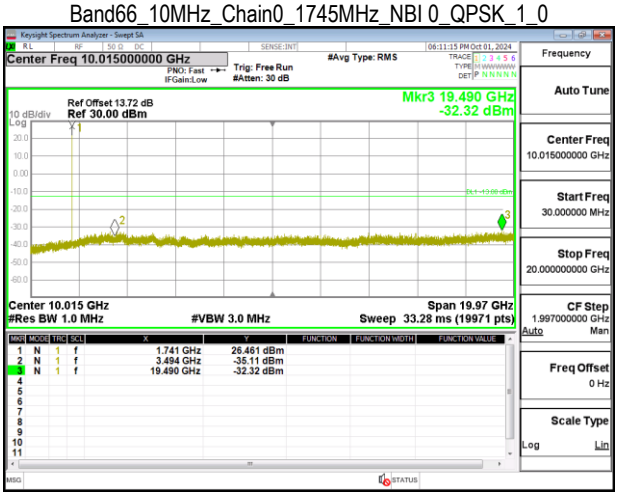
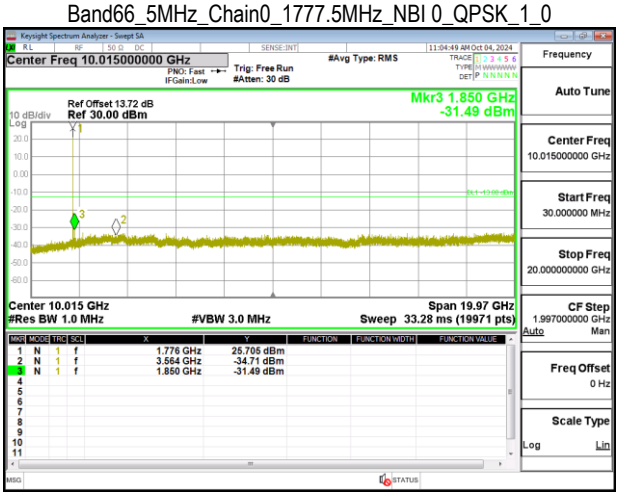
Band66_5MHz_Chain0_1745MHz_NBI 0_QPSK_1_0



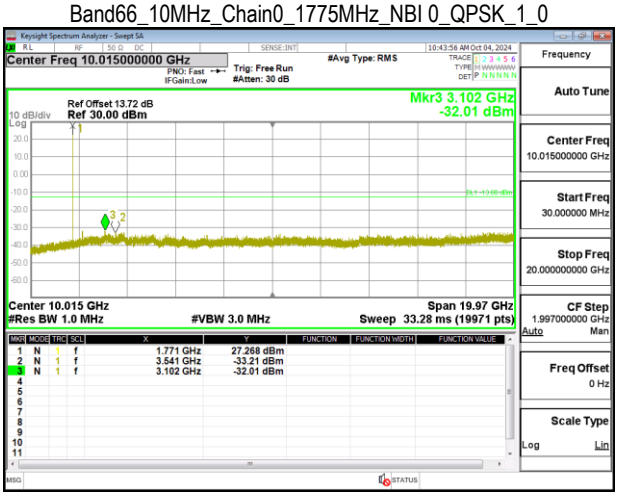

Band66_10MHz_Chain0_1745MHz_NBI 0_QPSK_1_0



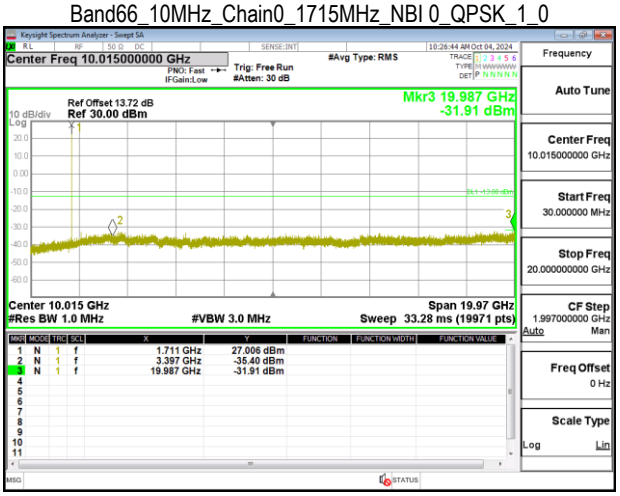

Band66_5MHz_Chain0_1777.5MHz_NBI 0_QPSK_1_0



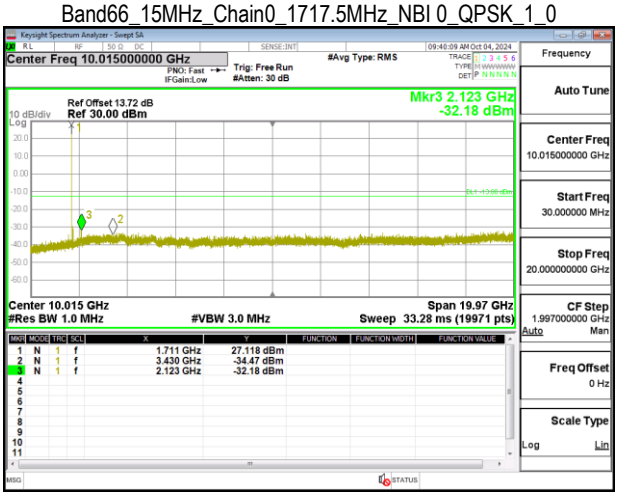

Band66_10MHz_Chain0_1775MHz_NBI 0_QPSK_1_0




Band66_10MHz_Chain0_1715MHz_NBI 0_QPSK_1_0




Band66_15MHz_Chain0_1717.5MHz_NBI 0_QPSK_1_0

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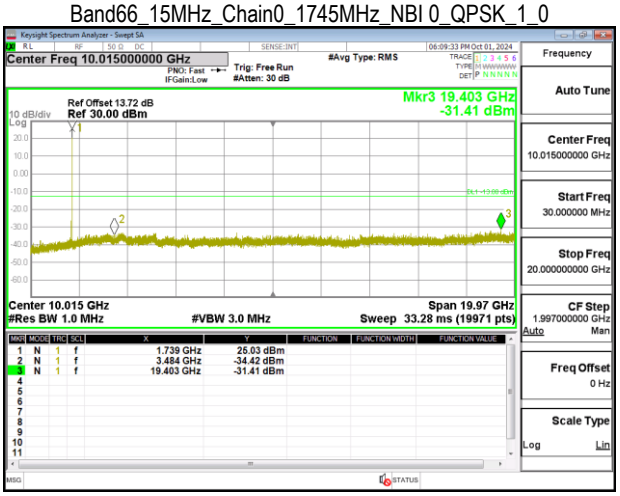
Band66_15MHz_Chain0_1745MHz_NBI 0_QPSK_1_0

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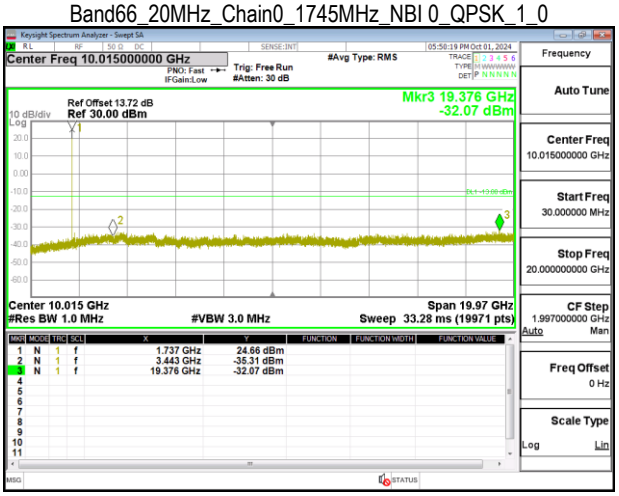
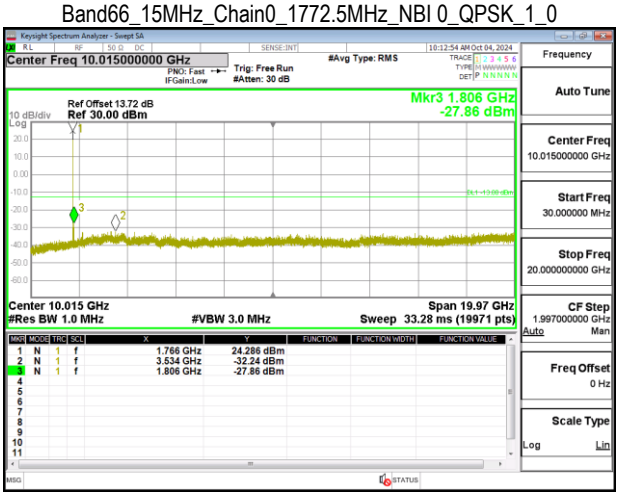
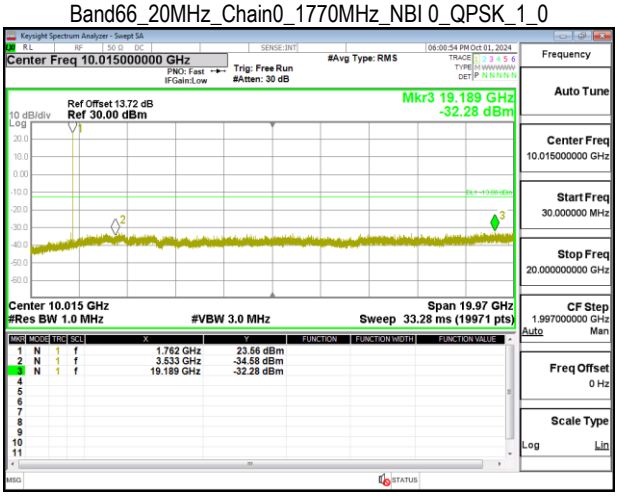


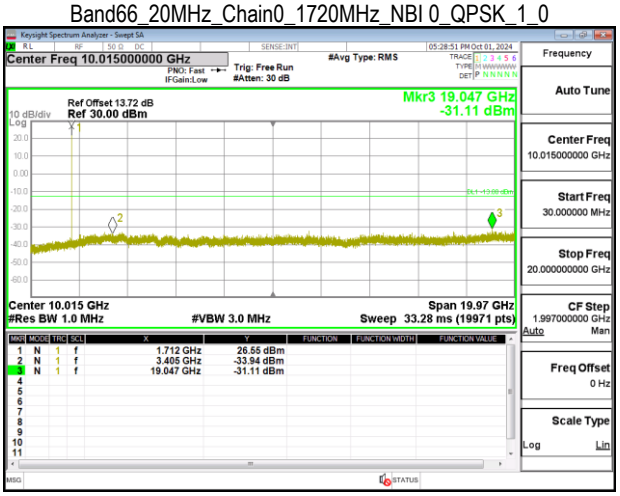

Band66_15MHz_Chain0_1772.5MHz_NBI 0_QPSK_1_0




Band66_20MHz_Chain0_1770MHz_NBI 0_QPSK_1_0




Band66_20MHz_Chain0_1720MHz_NBI 0_QPSK_1_0

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# 10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

## 10.1 Standard Applicable

According to FCC §2.1053,

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

**RSS-130 §4.7, 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.

**FCC §27.53(g)**

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

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

**FCC §27.53(h)(1)**

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

**FCC §90.691 Emission mask requirements for EA-based systems**

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

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

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

**RSS-130 §4.7.1**

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.

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**RSS-130 §4.7.2**

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:
the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

76 + 10 log10 p (watts), dB, for base and fixed equipment and
65 + 10 log10 p (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed −70 dBW/MHz for wideband signal and −80 dBW for discrete emission with bandwidth less than 700 Hz.

**RSS-132 §5.5**

i. Equipment shall meet the unwanted emission limits specified below:

   In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least 43 + 10 log(p) dB.

ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least 43 + 10 log(p) dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

   p is the output power specified in watts.

**RSS-133 §5.6**

Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen. Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range. For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz RSS-133 6 measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable. For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

**Table 3: Unwanted emission limits for all equipment**

| Offset frequency from the edge of the frequency block group (MHz) | Unwanted emission limits |
|---|---|
| ≤1 | -13 dBm/(1% of OB*) |
| >1 MHz | -13 dBm/MHz |

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**RSS-139 §5.6**

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

| Table 6: Table 6: Unwanted emission limits | |
|---|---|
| **Offset from the edge of the frequency block or frequency block group** | **Unwanted emission limits** |
| 1 MHz | -13 dBm/(1% of OB*) |
| >1 MHz | -13 dBm/MHz |
| Subscriber equipment | 30 dBm e.i.r.p./channel bandwidth |

*OB is the occupied bandwidth.

In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

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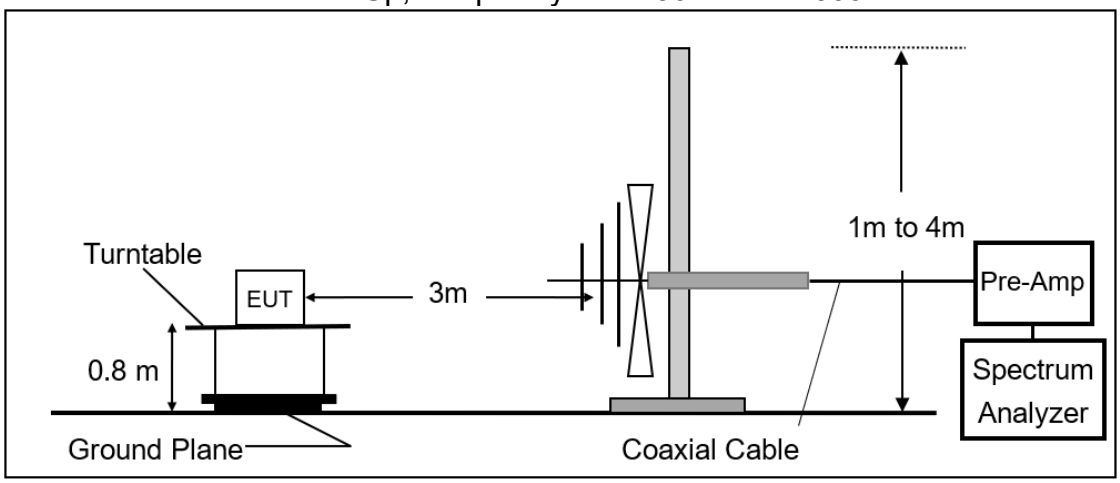
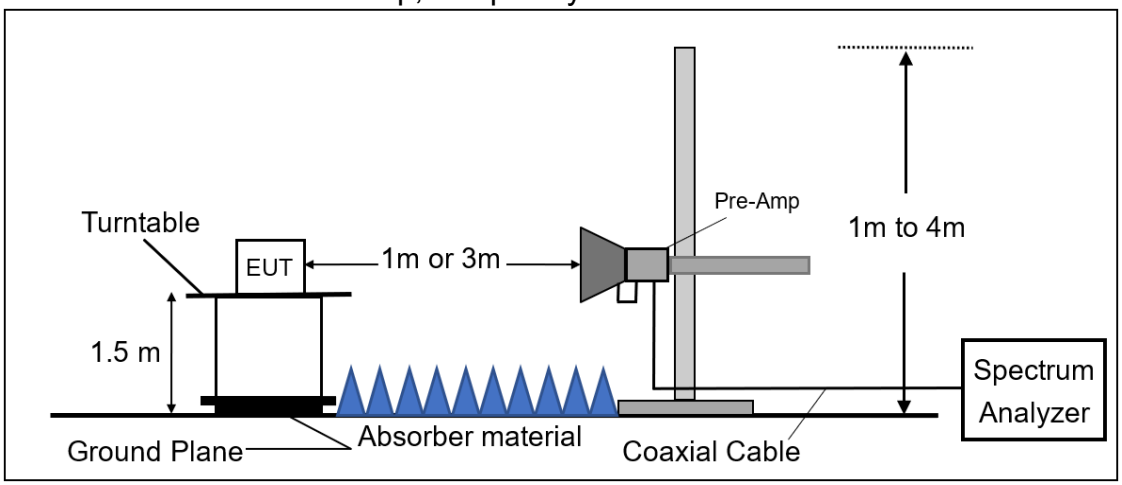
## 10.2 EUT Setup

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




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




## 10.3 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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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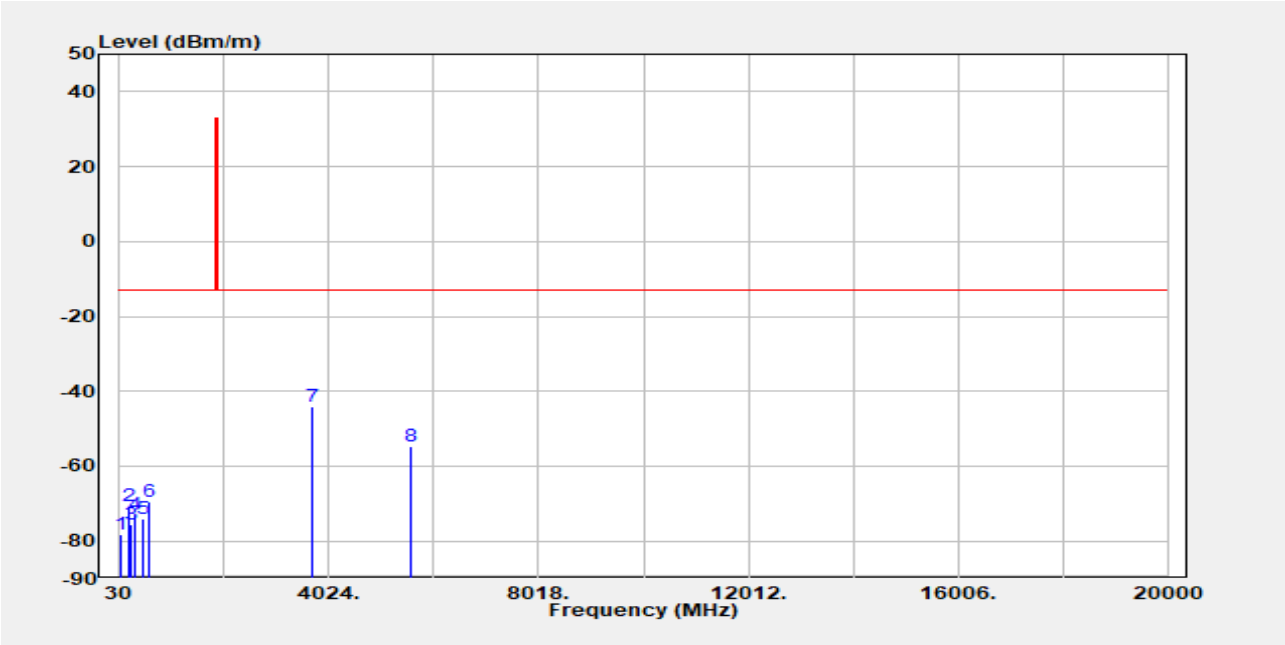
## 10.4 Measurement Result:

| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B2 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1857.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -78.34 | -65.43 | -11.58 | -1.33 | -13.00 | -65.34 |
| 216.240 | -70.66 | -72.55 | 4.58 | -2.69 | -13.00 | -57.66 |
| 263.770 | -75.50 | -76.67 | 4.15 | -2.98 | -13.00 | -62.50 |
| 328.760 | -73.00 | -73.55 | 3.87 | -3.31 | -13.00 | -60.00 |
| 492.690 | -74.00 | -73.92 | 3.97 | -4.05 | -13.00 | -61.00 |
| 605.210 | -69.41 | -68.34 | 3.41 | -4.49 | -13.00 | -56.41 |
| 3715.000 | -44.21 | -45.34 | 12.50 | -11.37 | -13.00 | -31.21 |
| 5572.500 | -54.66 | -53.67 | 13.09 | -14.09 | -13.00 | -41.66 |

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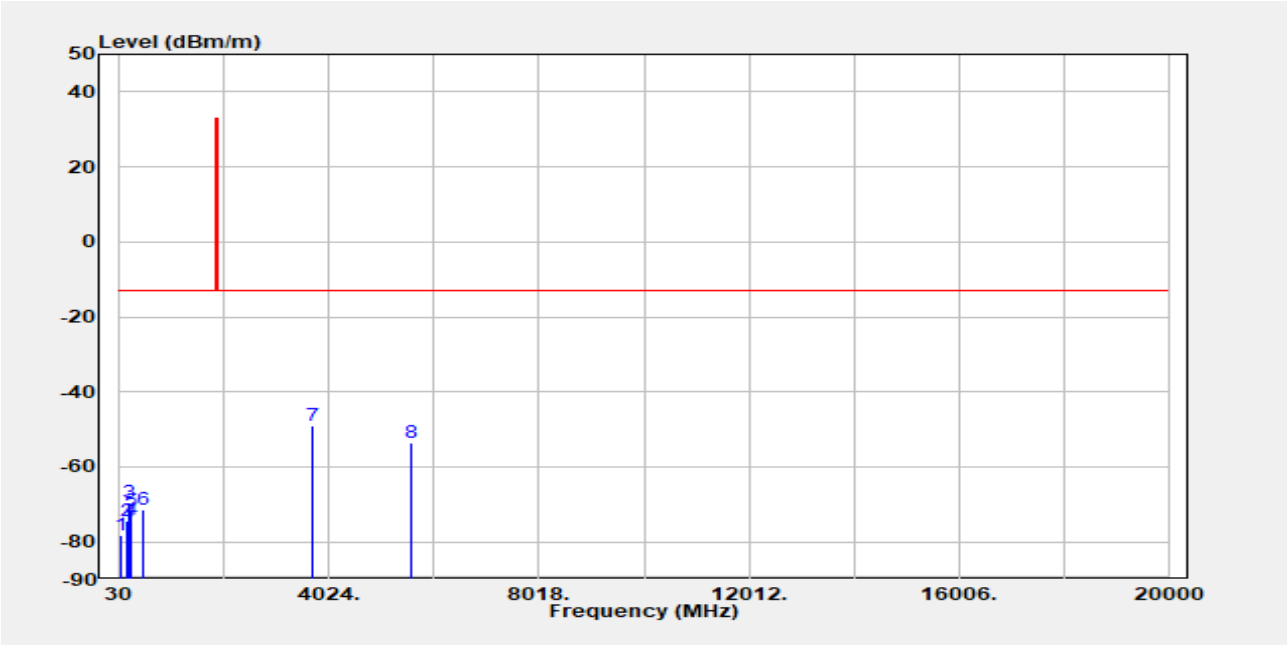
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B2 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1857.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 64.920 | -78.31 | -68.46 | -8.38 | -1.47 | -13.00 | -65.31 |
| 167.740 | -74.46 | -71.74 | -0.35 | -2.37 | -13.00 | -61.46 |
| 216.240 | -69.60 | -71.49 | 4.58 | -2.69 | -13.00 | -56.60 |
| 235.640 | -73.95 | -75.10 | 3.96 | -2.80 | -13.00 | -60.95 |
| 263.770 | -71.67 | -72.84 | 4.15 | -2.98 | -13.00 | -58.67 |
| 492.690 | -71.45 | -71.37 | 3.97 | -4.05 | -13.00 | -58.45 |
| 3715.000 | -48.85 | -49.98 | 12.50 | -11.37 | -13.00 | -35.85 |
| 5572.500 | -53.47 | -52.48 | 13.09 | -14.09 | -13.00 | -40.47 |

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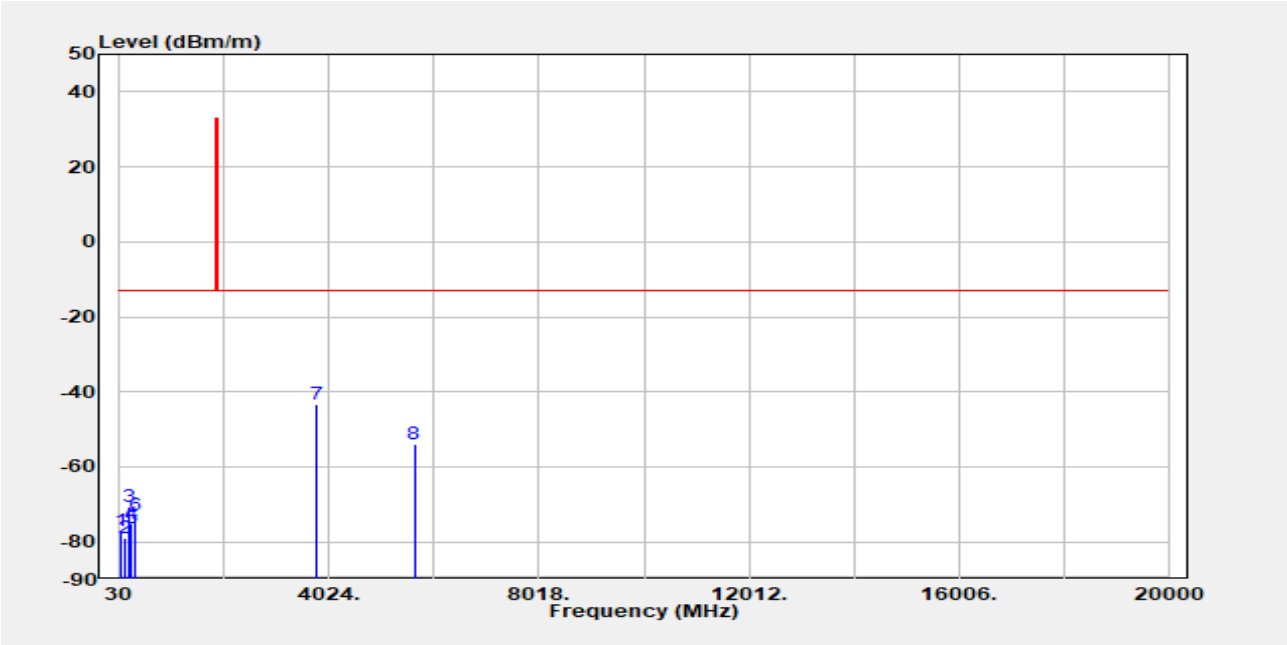
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B2 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1880 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -77.02 | -64.11 | -11.58 | -1.33 | -13.00 | -64.02 |
| 133.790 | -78.89 | -75.03 | -1.75 | -2.12 | -13.00 | -65.89 |
| 216.240 | -70.47 | -72.36 | 4.58 | -2.69 | -13.00 | -57.47 |
| 231.760 | -75.20 | -76.88 | 4.46 | -2.78 | -13.00 | -62.20 |
| 263.770 | -76.34 | -77.51 | 4.15 | -2.98 | -13.00 | -63.34 |
| 328.760 | -72.85 | -73.40 | 3.87 | -3.31 | -13.00 | -59.85 |
| 3760.000 | -43.25 | -44.31 | 12.50 | -11.44 | -13.00 | -30.25 |
| 5640.000 | -53.91 | -53.02 | 13.28 | -14.17 | -13.00 | -40.91 |

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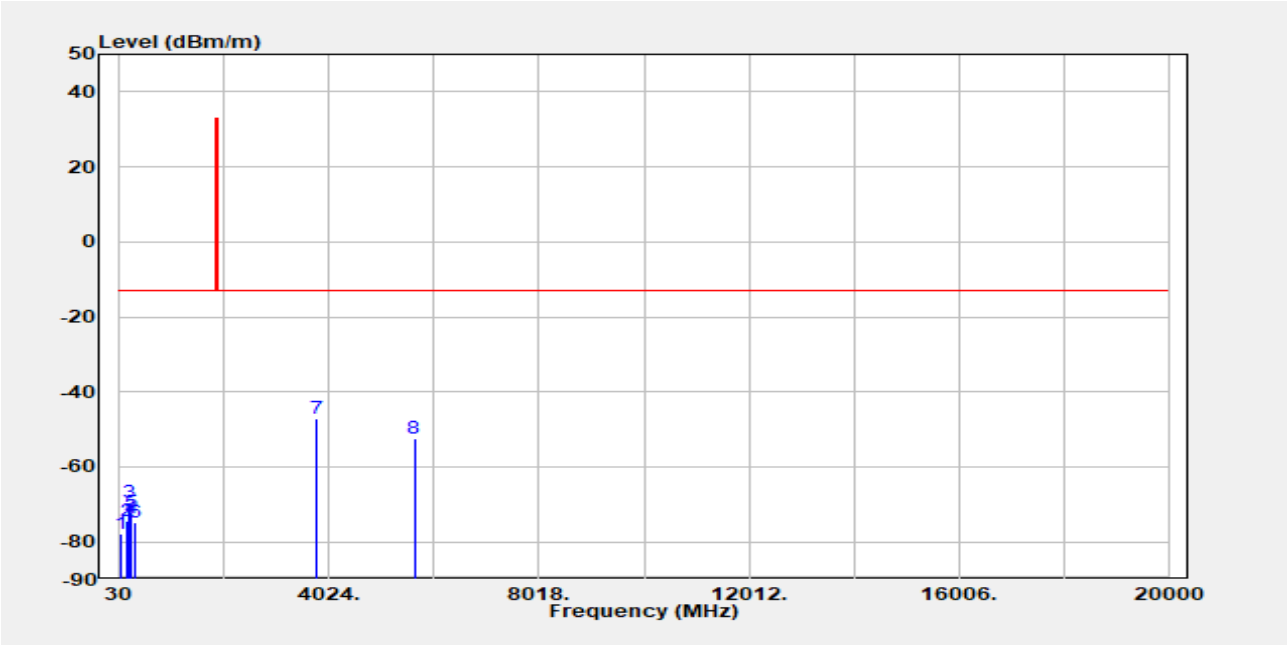
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B2 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1880 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 65.890 | -77.74 | -68.45 | -7.80 | -1.48 | -13.00 | -64.74 |
| 167.740 | -74.46 | -71.74 | -0.35 | -2.37 | -13.00 | -61.46 |
| 216.240 | -69.38 | -71.27 | 4.58 | -2.69 | -13.00 | -56.38 |
| 231.760 | -73.56 | -75.24 | 4.46 | -2.78 | -13.00 | -60.56 |
| 263.770 | -72.25 | -73.42 | 4.15 | -2.98 | -13.00 | -59.25 |
| 309.360 | -74.87 | -75.48 | 3.82 | -3.21 | -13.00 | -61.87 |
| 3760.000 | -47.22 | -48.28 | 12.50 | -11.44 | -13.00 | -34.22 |
| 5640.000 | -52.42 | -51.53 | 13.28 | -14.17 | -13.00 | -39.42 |

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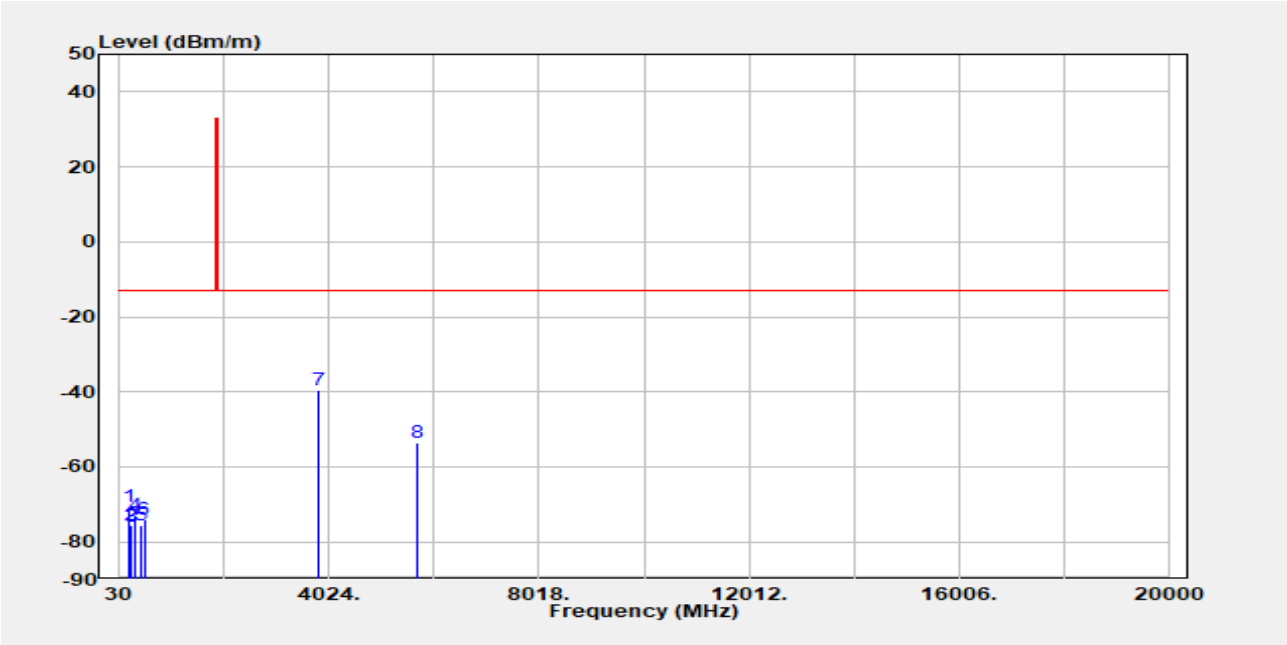
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B2 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1902.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 216.240 | -70.72 | -72.61 | 4.58 | -2.69 | -13.00 | -57.72 |
| 230.790 | -75.43 | -77.25 | 4.60 | -2.77 | -13.00 | -62.43 |
| 263.770 | -75.80 | -76.97 | 4.15 | -2.98 | -13.00 | -62.80 |
| 329.730 | -72.79 | -73.33 | 3.85 | -3.32 | -13.00 | -59.79 |
| 453.890 | -75.40 | -75.33 | 3.82 | -3.89 | -13.00 | -62.40 |
| 494.630 | -74.16 | -74.07 | 3.97 | -4.06 | -13.00 | -61.16 |
| 3805.000 | -39.65 | -40.63 | 12.49 | -11.51 | -13.00 | -26.65 |
| 5707.500 | -53.75 | -52.59 | 13.10 | -14.26 | -13.00 | -40.75 |

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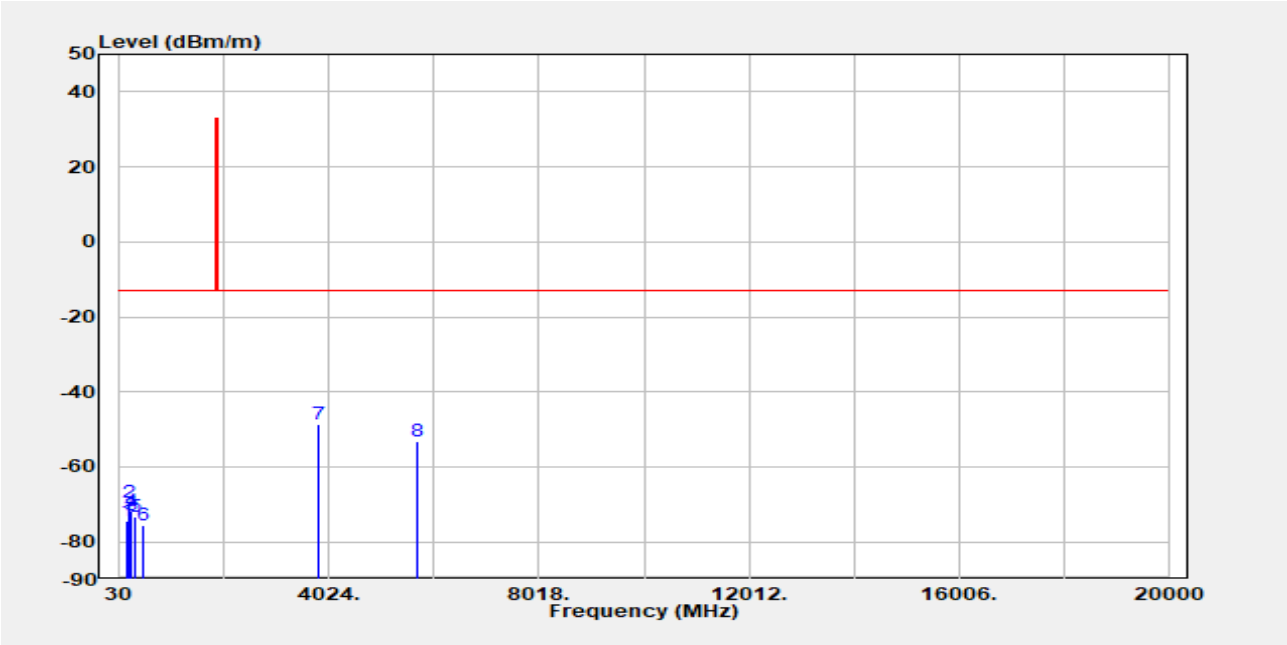
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B2 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1902.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 167.740 | -74.55 | -71.83 | -0.35 | -2.37 | -13.00 | -61.55 |
| 216.240 | -69.40 | -71.29 | 4.58 | -2.69 | -13.00 | -56.40 |
| 231.760 | -72.94 | -74.62 | 4.46 | -2.78 | -13.00 | -59.94 |
| 263.770 | -71.82 | -72.99 | 4.15 | -2.98 | -13.00 | -58.82 |
| 329.730 | -73.32 | -73.86 | 3.85 | -3.32 | -13.00 | -60.32 |
| 492.690 | -75.50 | -75.42 | 3.97 | -4.05 | -13.00 | -62.50 |
| 3805.000 | -48.57 | -49.55 | 12.49 | -11.51 | -13.00 | -35.57 |
| 5707.500 | -53.17 | -52.01 | 13.10 | -14.26 | -13.00 | -40.17 |

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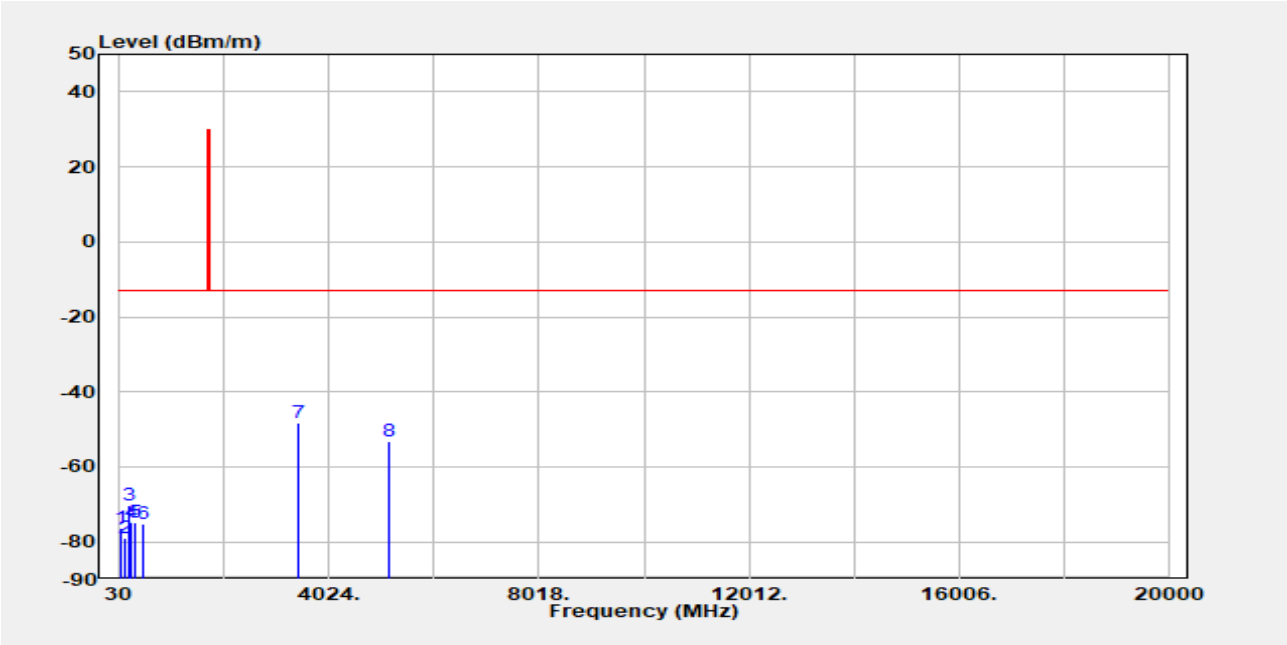
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B4 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1717.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -76.20 | -63.29 | -11.58 | -1.33 | -13.00 | -63.20 |
| 133.790 | -78.85 | -74.99 | -1.75 | -2.12 | -13.00 | -65.85 |
| 216.240 | -70.27 | -72.16 | 4.58 | -2.69 | -13.00 | -57.27 |
| 233.700 | -74.92 | -76.31 | 4.18 | -2.79 | -13.00 | -61.92 |
| 327.790 | -75.00 | -75.57 | 3.88 | -3.31 | -13.00 | -62.00 |
| 492.690 | -75.36 | -75.28 | 3.97 | -4.05 | -13.00 | -62.36 |
| 3435.000 | -48.08 | -49.76 | 12.60 | -10.93 | -13.00 | -35.08 |
| 5152.500 | -53.39 | -52.28 | 12.41 | -13.51 | -13.00 | -40.39 |

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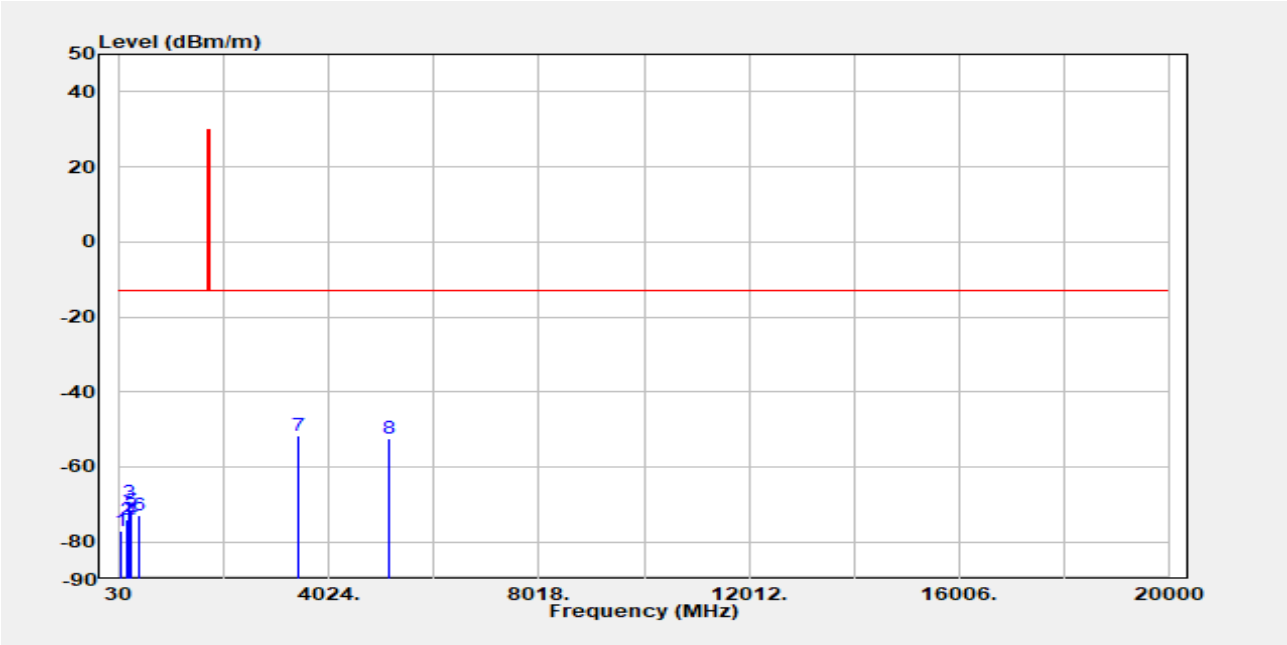
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B4 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1717.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 66.860 | -77.14 | -67.94 | -7.70 | -1.50 | -13.00 | -64.14 |
| 167.740 | -74.06 | -71.33 | -0.35 | -2.37 | -13.00 | -61.06 |
| 216.240 | -69.46 | -71.35 | 4.58 | -2.69 | -13.00 | -56.46 |
| 231.760 | -73.97 | -75.65 | 4.46 | -2.78 | -13.00 | -60.97 |
| 263.770 | -71.93 | -73.10 | 4.15 | -2.98 | -13.00 | -58.93 |
| 391.810 | -72.98 | -73.27 | 3.90 | -3.61 | -13.00 | -59.98 |
| 3435.000 | -51.82 | -53.49 | 12.60 | -10.93 | -13.00 | -38.82 |
| 5152.500 | -52.61 | -51.50 | 12.41 | -13.51 | -13.00 | -39.61 |

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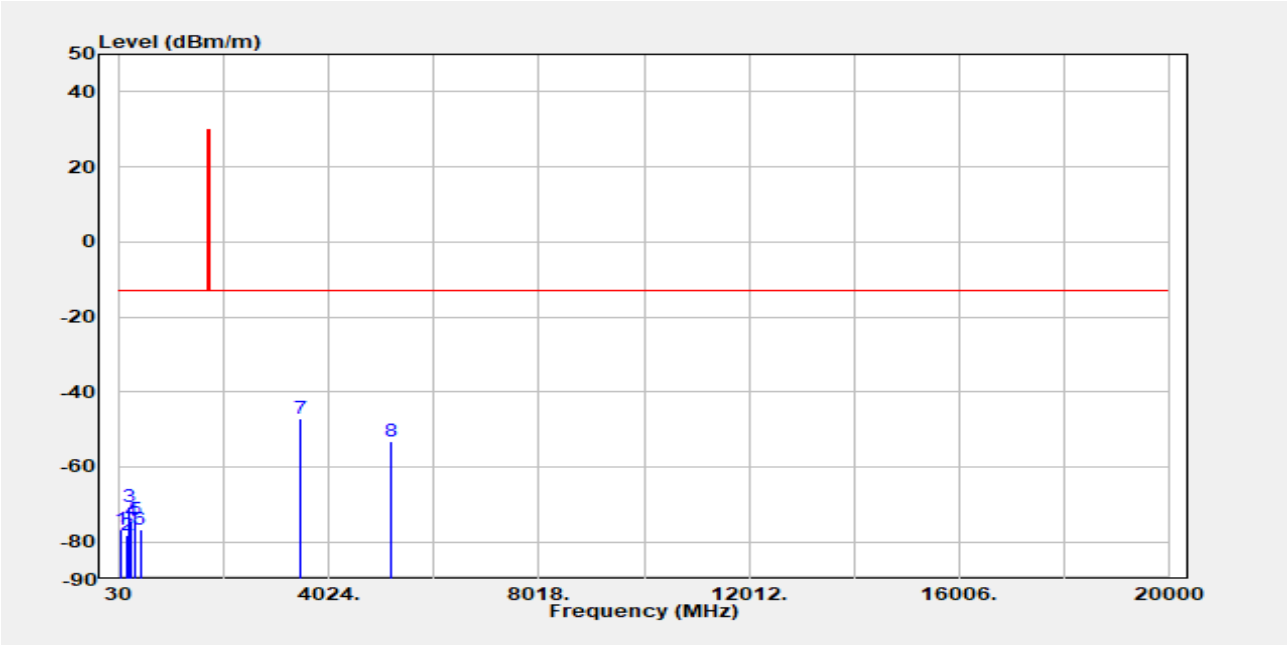
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B4 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1732.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -76.56 | -63.65 | -11.58 | -1.33 | -13.00 | -63.56 |
| 167.740 | -78.08 | -75.36 | -0.35 | -2.37 | -13.00 | -65.08 |
| 216.240 | -70.63 | -72.52 | 4.58 | -2.69 | -13.00 | -57.63 |
| 231.760 | -74.55 | -76.23 | 4.46 | -2.78 | -13.00 | -61.55 |
| 328.760 | -74.24 | -74.79 | 3.87 | -3.31 | -13.00 | -61.24 |
| 418.000 | -76.82 | -77.23 | 4.14 | -3.73 | -13.00 | -63.82 |
| 3465.000 | -47.25 | -48.82 | 12.54 | -10.97 | -13.00 | -34.25 |
| 5197.500 | -53.37 | -52.38 | 12.59 | -13.58 | -13.00 | -40.37 |

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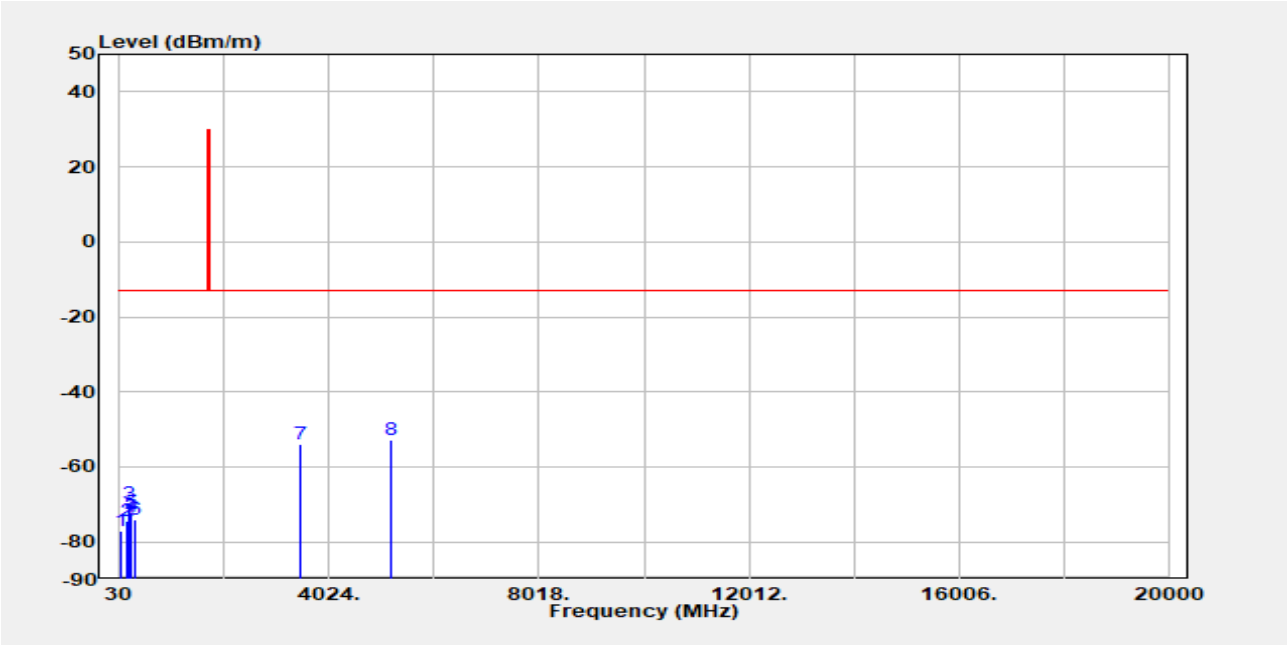
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B4 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1732.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 64.920 | -77.27 | -67.42 | -8.38 | -1.47 | -13.00 | -64.27 |
| 167.740 | -74.57 | -71.85 | -0.35 | -2.37 | -13.00 | -61.57 |
| 216.240 | -69.80 | -71.70 | 4.58 | -2.69 | -13.00 | -56.80 |
| 233.700 | -73.25 | -74.64 | 4.18 | -2.79 | -13.00 | -60.25 |
| 263.770 | -72.24 | -73.41 | 4.15 | -2.98 | -13.00 | -59.24 |
| 328.760 | -73.97 | -74.53 | 3.87 | -3.31 | -13.00 | -60.97 |
| 3465.000 | -53.90 | -55.47 | 12.54 | -10.97 | -13.00 | -40.90 |
| 5197.500 | -52.96 | -51.98 | 12.59 | -13.58 | -13.00 | -39.96 |

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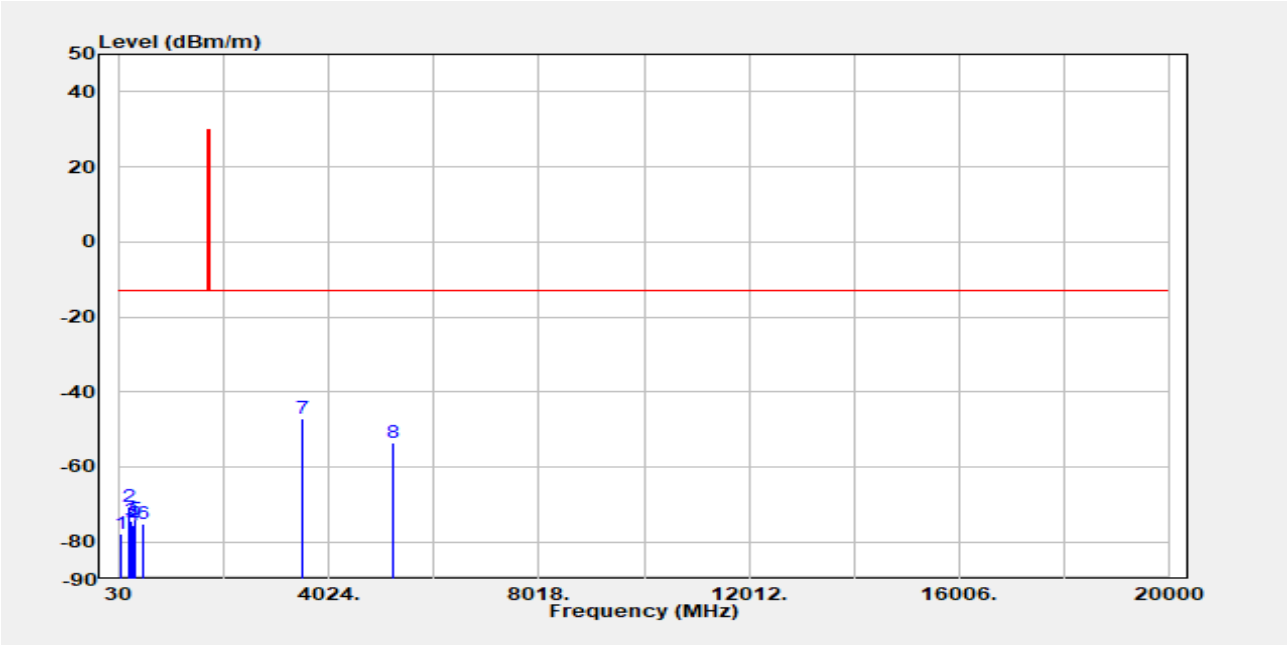
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B4 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1747.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -78.02 | -65.11 | -11.58 | -1.33 | -13.00 | -65.02 |
| 216.240 | -70.73 | -72.62 | 4.58 | -2.69 | -13.00 | -57.73 |
| 231.760 | -74.53 | -76.21 | 4.46 | -2.78 | -13.00 | -61.53 |
| 295.780 | -75.74 | -76.39 | 3.79 | -3.14 | -13.00 | -62.74 |
| 328.760 | -74.00 | -74.55 | 3.87 | -3.31 | -13.00 | -61.00 |
| 467.470 | -75.04 | -74.96 | 3.87 | -3.95 | -13.00 | -62.04 |
| 3495.000 | -46.98 | -48.37 | 12.42 | -11.02 | -13.00 | -33.98 |
| 5242.500 | -53.39 | -52.61 | 12.86 | -13.64 | -13.00 | -40.39 |

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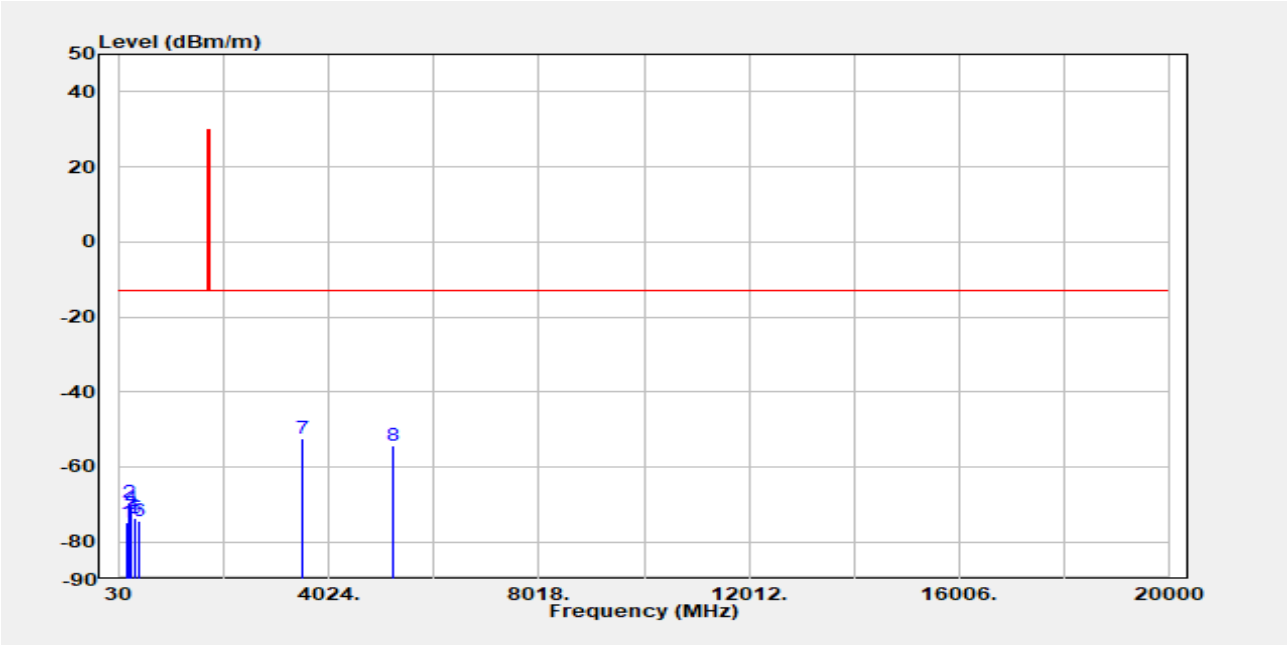
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B4 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1747.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 167.740 | -74.80 | -72.08 | -0.35 | -2.37 | -13.00 | -61.80 |
| 216.240 | -69.33 | -71.22 | 4.58 | -2.69 | -13.00 | -56.33 |
| 235.640 | -72.69 | -73.85 | 3.96 | -2.80 | -13.00 | -59.69 |
| 263.770 | -71.20 | -72.37 | 4.15 | -2.98 | -13.00 | -58.20 |
| 328.760 | -73.79 | -74.35 | 3.87 | -3.31 | -13.00 | -60.79 |
| 413.150 | -74.35 | -74.75 | 4.10 | -3.71 | -13.00 | -61.35 |
| 3495.000 | -52.46 | -53.86 | 12.42 | -11.02 | -13.00 | -39.46 |
| 5242.500 | -54.21 | -53.43 | 12.86 | -13.64 | -13.00 | -41.21 |

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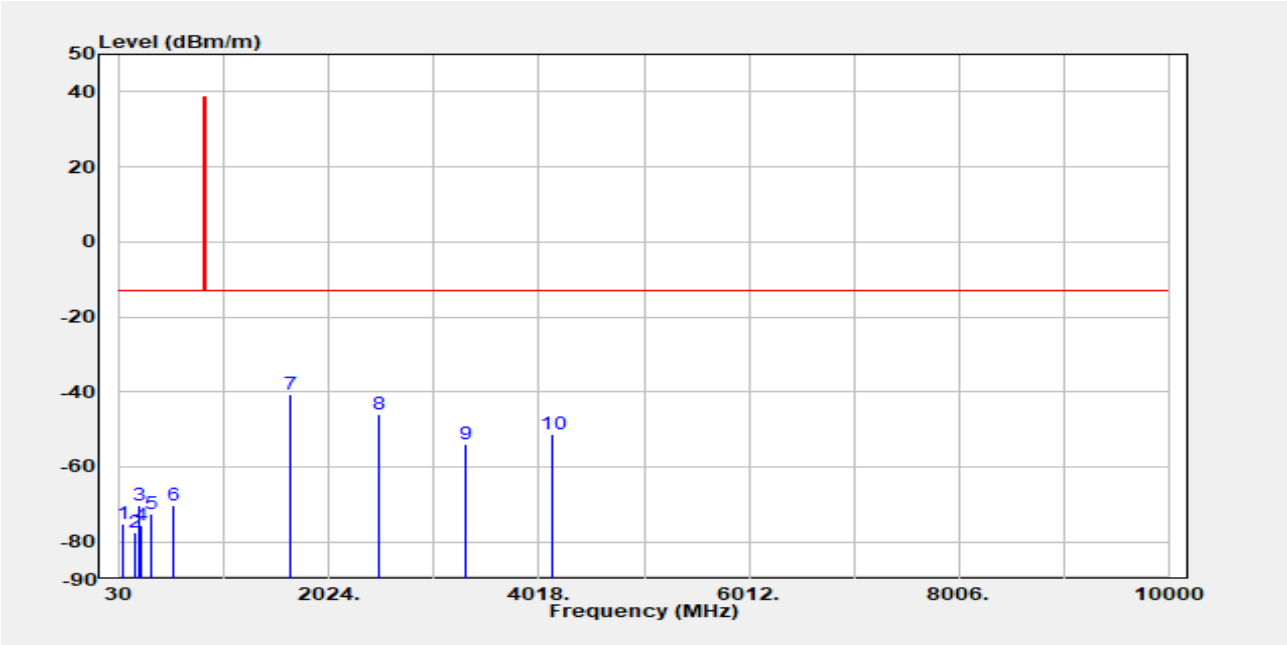
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B5 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :829 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.15 | -65.07 | -8.61 | -1.46 | -13.00 | -62.15 |
| 177.440 | -77.57 | -76.04 | 0.91 | -2.43 | -13.00 | -64.57 |
| 216.240 | -70.27 | -72.16 | 4.58 | -2.69 | -13.00 | -57.27 |
| 233.700 | -75.55 | -76.95 | 4.18 | -2.79 | -13.00 | -62.55 |
| 328.760 | -72.55 | -73.11 | 3.87 | -3.31 | -13.00 | -59.55 |
| 547.010 | -70.34 | -70.61 | 4.54 | -4.27 | -13.00 | -57.34 |
| 1658.000 | -40.70 | -42.80 | 9.58 | -7.48 | -13.00 | -27.70 |
| 2487.000 | -45.90 | -47.15 | 10.50 | -9.25 | -13.00 | -32.90 |
| 3316.000 | -54.06 | -55.66 | 12.33 | -10.74 | -13.00 | -41.06 |
| 4145.000 | -51.43 | -51.89 | 12.51 | -12.04 | -13.00 | -38.43 |

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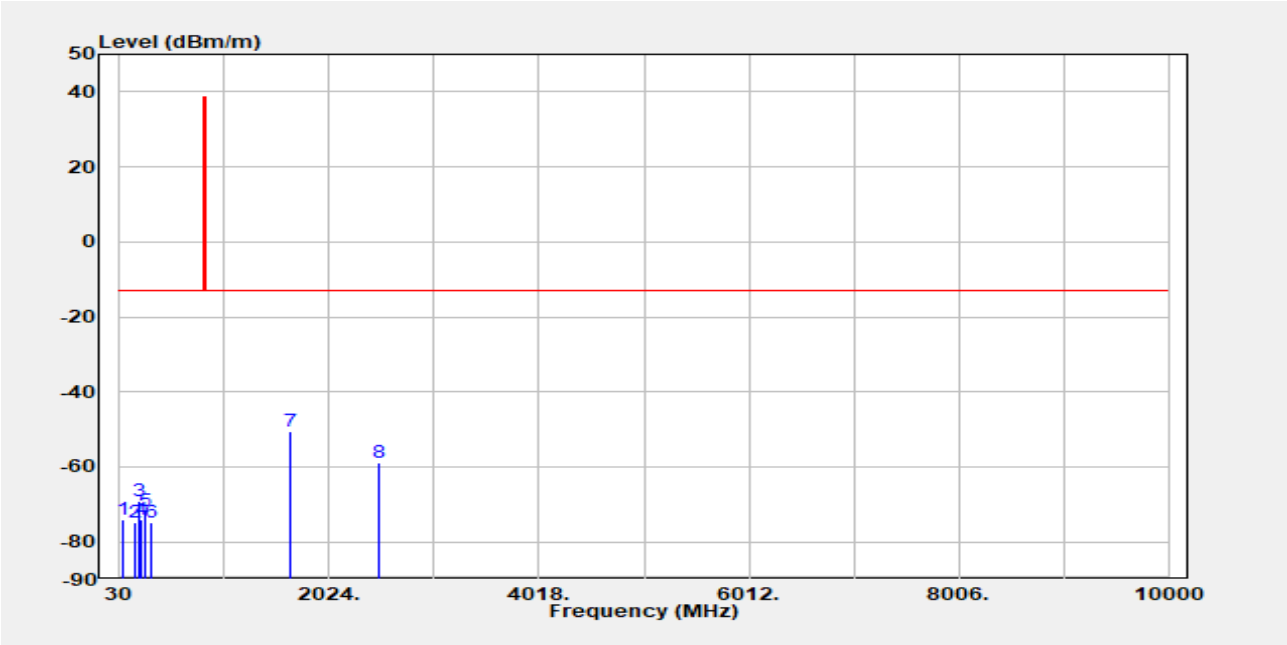
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B5 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :829 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.06 | -63.99 | -8.61 | -1.46 | -13.00 | -61.06 |
| 167.740 | -74.69 | -71.97 | -0.35 | -2.37 | -13.00 | -61.69 |
| 216.240 | -69.09 | -70.98 | 4.58 | -2.69 | -13.00 | -56.09 |
| 230.790 | -74.04 | -75.87 | 4.60 | -2.77 | -13.00 | -61.04 |
| 263.770 | -71.65 | -72.82 | 4.15 | -2.98 | -13.00 | -58.65 |
| 328.760 | -74.97 | -75.52 | 3.87 | -3.31 | -13.00 | -61.97 |
| 1658.000 | -50.67 | -52.77 | 9.58 | -7.48 | -13.00 | -37.67 |
| 2487.000 | -58.87 | -60.13 | 10.50 | -9.25 | -13.00 | -45.87 |

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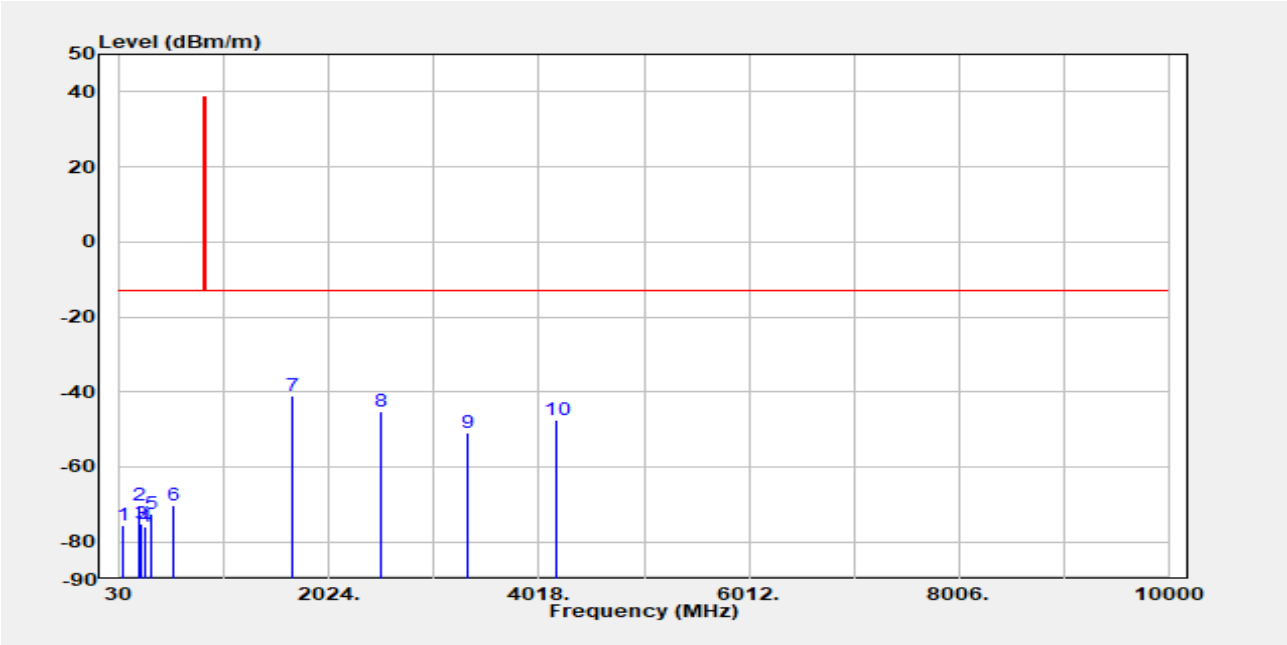
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B5 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :836.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.53 | -65.46 | -8.61 | -1.46 | -13.00 | -62.53 |
| 216.240 | -70.22 | -72.11 | 4.58 | -2.69 | -13.00 | -57.22 |
| 231.760 | -75.14 | -76.82 | 4.46 | -2.78 | -13.00 | -62.14 |
| 263.770 | -75.96 | -77.13 | 4.15 | -2.98 | -13.00 | -62.96 |
| 329.730 | -72.43 | -72.96 | 3.85 | -3.32 | -13.00 | -59.43 |
| 546.040 | -70.39 | -70.66 | 4.53 | -4.26 | -13.00 | -57.39 |
| 1673.000 | -41.13 | -43.35 | 9.73 | -7.52 | -13.00 | -28.13 |
| 2509.500 | -45.17 | -46.58 | 10.70 | -9.29 | -13.00 | -32.17 |
| 3346.000 | -50.76 | -52.37 | 12.39 | -10.78 | -13.00 | -37.76 |
| 4182.500 | -47.35 | -47.75 | 12.50 | -12.10 | -13.00 | -34.35 |

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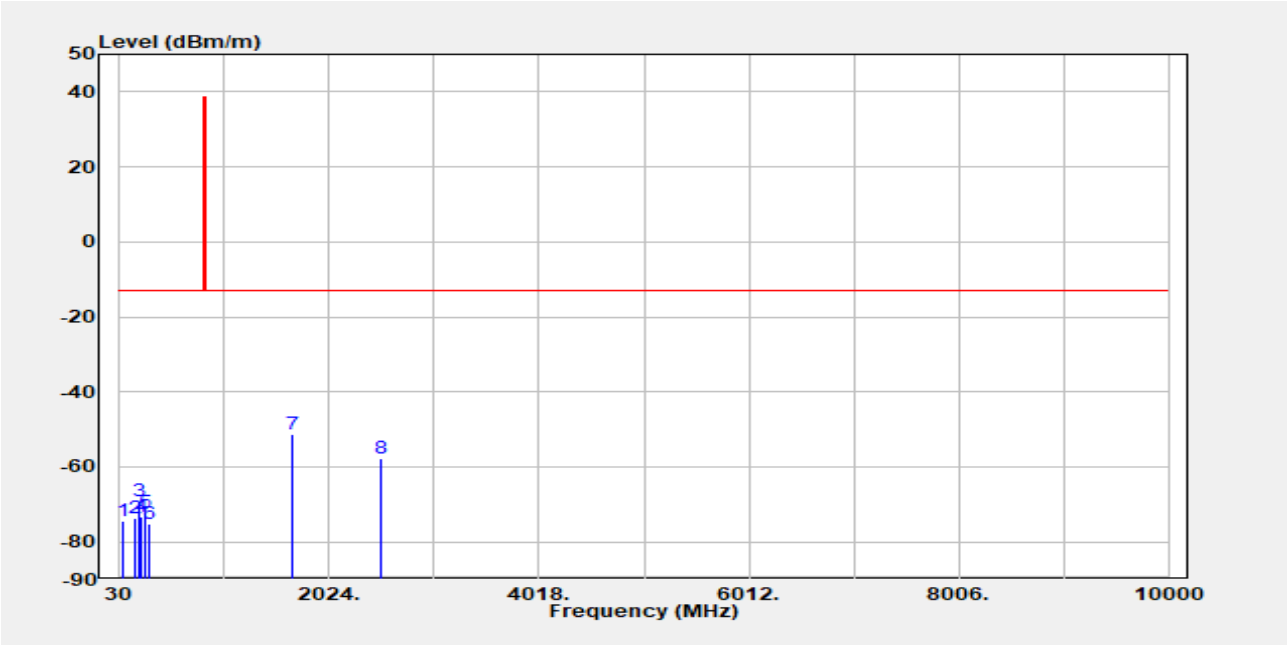
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B5 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :836.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.56 | -64.49 | -8.61 | -1.46 | -13.00 | -61.56 |
| 167.740 | -73.50 | -70.78 | -0.35 | -2.37 | -13.00 | -60.50 |
| 216.240 | -69.14 | -71.03 | 4.58 | -2.69 | -13.00 | -56.14 |
| 233.700 | -73.19 | -74.58 | 4.18 | -2.79 | -13.00 | -60.19 |
| 263.770 | -72.10 | -73.27 | 4.15 | -2.98 | -13.00 | -59.10 |
| 313.240 | -75.30 | -75.84 | 3.77 | -3.23 | -13.00 | -62.30 |
| 1673.000 | -51.30 | -53.51 | 9.73 | -7.52 | -13.00 | -38.30 |
| 2509.500 | -57.83 | -59.23 | 10.70 | -9.29 | -13.00 | -44.83 |

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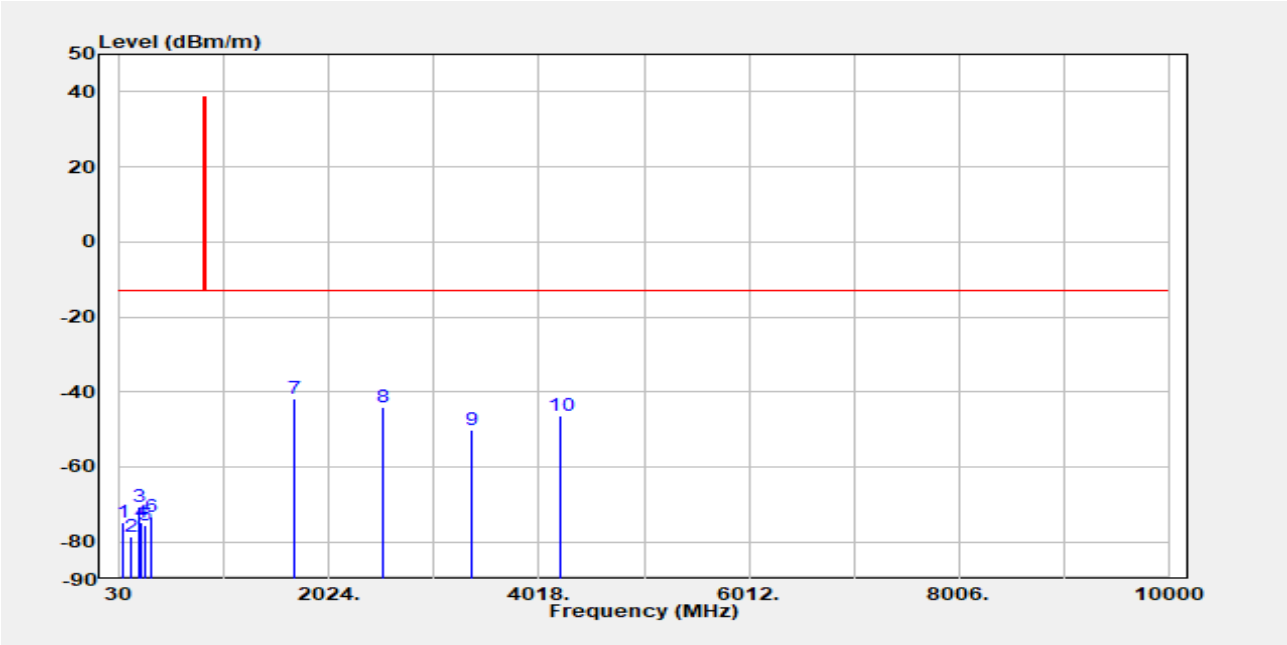
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B5 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :844 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.82 | -64.74 | -8.61 | -1.46 | -13.00 | -61.82 |
| 133.790 | -78.65 | -74.79 | -1.75 | -2.12 | -13.00 | -65.65 |
| 216.240 | -70.52 | -72.42 | 4.58 | -2.69 | -13.00 | -57.52 |
| 231.760 | -74.68 | -76.36 | 4.46 | -2.78 | -13.00 | -61.68 |
| 263.770 | -75.58 | -76.75 | 4.15 | -2.98 | -13.00 | -62.58 |
| 328.760 | -73.23 | -73.79 | 3.87 | -3.31 | -13.00 | -60.23 |
| 1688.000 | -41.63 | -43.96 | 9.88 | -7.55 | -13.00 | -28.63 |
| 2532.000 | -44.15 | -45.34 | 10.52 | -9.33 | -13.00 | -31.15 |
| 3376.000 | -50.29 | -51.96 | 12.50 | -10.83 | -13.00 | -37.29 |
| 4220.000 | -46.52 | -46.91 | 12.54 | -12.15 | -13.00 | -33.52 |

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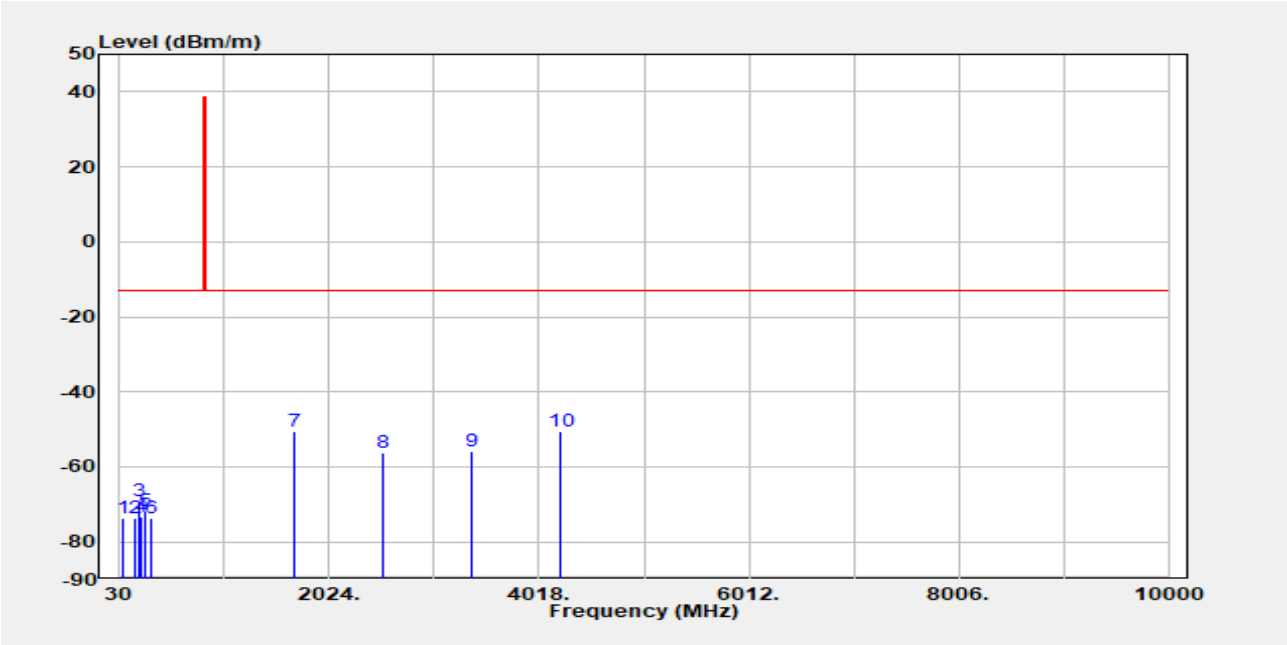
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B5 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :844 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -73.54 | -63.47 | -8.61 | -1.46 | -13.00 | -60.54 |
| 167.740 | -73.53 | -70.80 | -0.35 | -2.37 | -13.00 | -60.53 |
| 216.240 | -69.30 | -71.19 | 4.58 | -2.69 | -13.00 | -56.30 |
| 233.700 | -73.14 | -74.53 | 4.18 | -2.79 | -13.00 | -60.14 |
| 263.770 | -71.91 | -73.08 | 4.15 | -2.98 | -13.00 | -58.91 |
| 328.760 | -73.70 | -74.26 | 3.87 | -3.31 | -13.00 | -60.70 |
| 1688.000 | -50.39 | -52.72 | 9.88 | -7.55 | -13.00 | -37.39 |
| 2532.000 | -56.37 | -57.55 | 10.52 | -9.33 | -13.00 | -43.37 |
| 3376.000 | -55.71 | -57.38 | 12.50 | -10.83 | -13.00 | -42.71 |
| 4220.000 | -50.68 | -51.06 | 12.54 | -12.15 | -13.00 | -37.68 |

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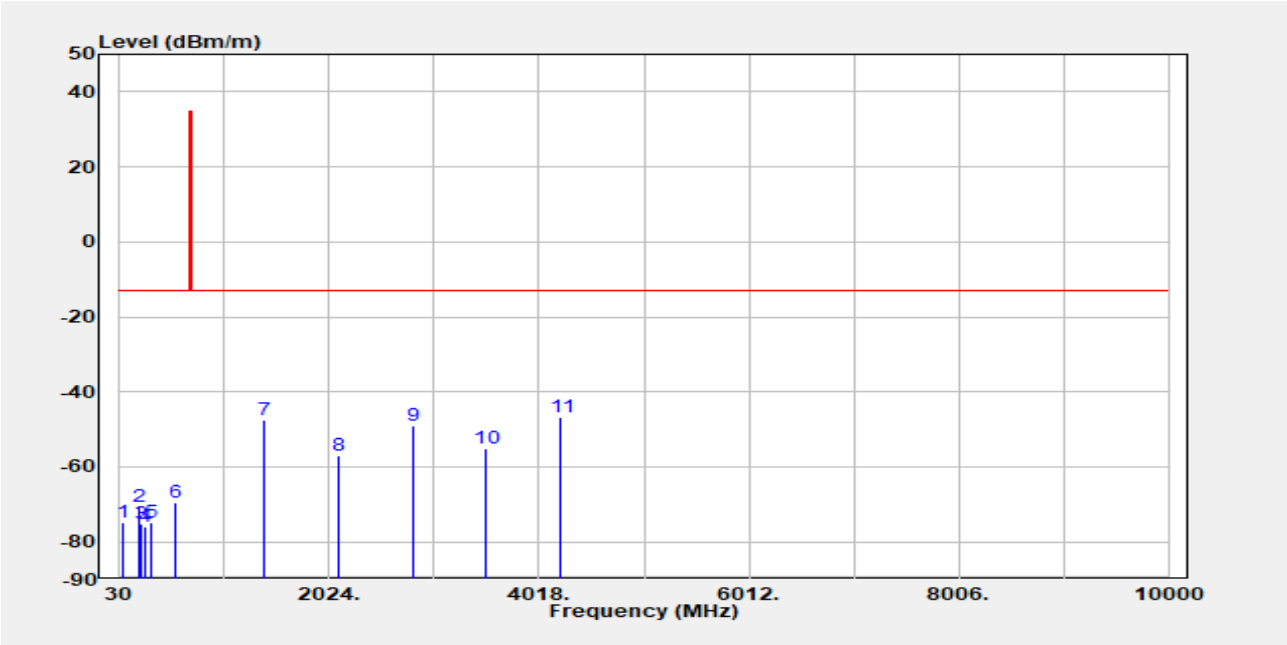
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B12 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :704 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.81 | -64.74 | -8.61 | -1.46 | -13.00 | -61.81 |
| 216.240 | -70.47 | -72.36 | 4.58 | -2.69 | -13.00 | -57.47 |
| 231.760 | -75.32 | -77.00 | 4.46 | -2.78 | -13.00 | -62.32 |
| 263.770 | -76.09 | -77.26 | 4.15 | -2.98 | -13.00 | -63.09 |
| 328.760 | -74.86 | -75.42 | 3.87 | -3.31 | -13.00 | -61.86 |
| 550.890 | -69.59 | -69.87 | 4.57 | -4.28 | -13.00 | -56.59 |
| 1408.000 | -47.45 | -48.15 | 7.58 | -6.88 | -13.00 | -34.45 |
| 2112.000 | -57.13 | -58.33 | 9.68 | -8.49 | -13.00 | -44.13 |
| 2816.000 | -48.90 | -49.93 | 10.90 | -9.87 | -13.00 | -35.90 |
| 3520.000 | -55.21 | -56.47 | 12.32 | -11.06 | -13.00 | -42.21 |
| 4224.000 | -46.75 | -47.14 | 12.55 | -12.16 | -13.00 | -33.75 |

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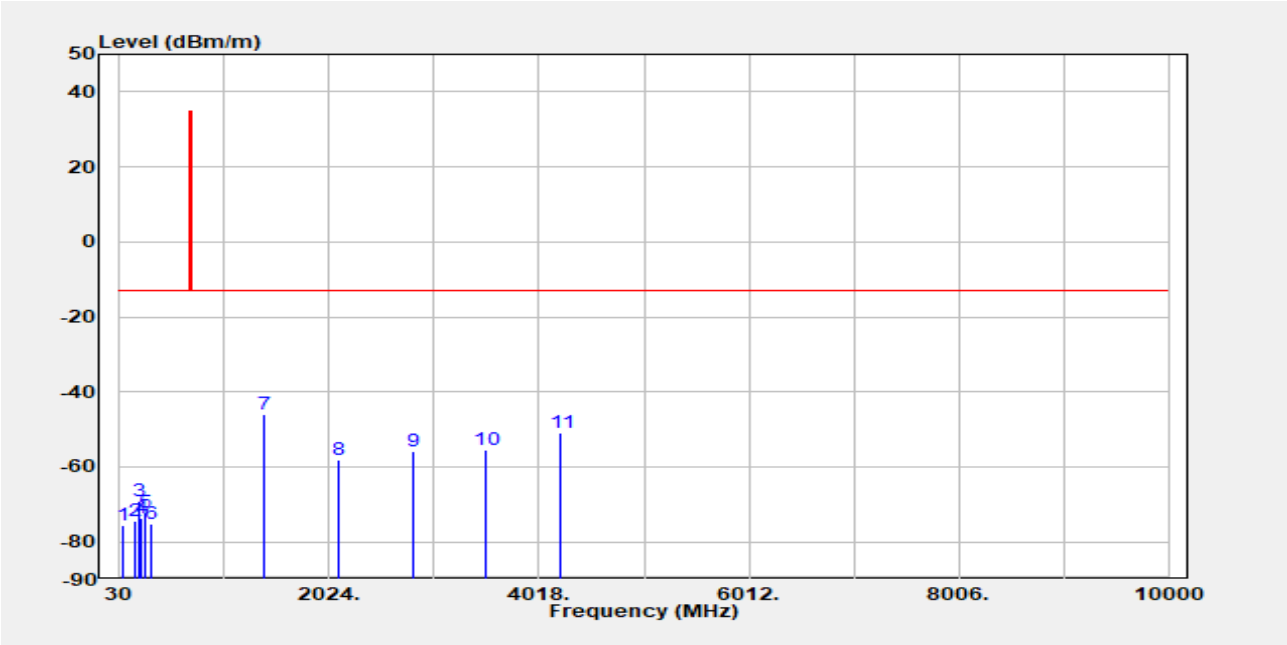
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B12 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :704 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.76 | -65.68 | -8.61 | -1.46 | -13.00 | -62.76 |
| 167.740 | -74.43 | -71.71 | -0.35 | -2.37 | -13.00 | -61.43 |
| 216.240 | -69.05 | -70.94 | 4.58 | -2.69 | -13.00 | -56.05 |
| 232.730 | -73.74 | -75.28 | 4.32 | -2.79 | -13.00 | -60.74 |
| 263.770 | -72.03 | -73.20 | 4.15 | -2.98 | -13.00 | -59.03 |
| 338.460 | -75.37 | -75.98 | 3.97 | -3.36 | -13.00 | -62.37 |
| 1408.000 | -46.08 | -46.78 | 7.58 | -6.88 | -13.00 | -33.08 |
| 2112.000 | -58.01 | -59.21 | 9.68 | -8.49 | -13.00 | -45.01 |
| 2816.000 | -55.98 | -57.01 | 10.90 | -9.87 | -13.00 | -42.98 |
| 3520.000 | -55.61 | -56.87 | 12.32 | -11.06 | -13.00 | -42.61 |
| 4224.000 | -50.81 | -51.20 | 12.55 | -12.16 | -13.00 | -37.81 |

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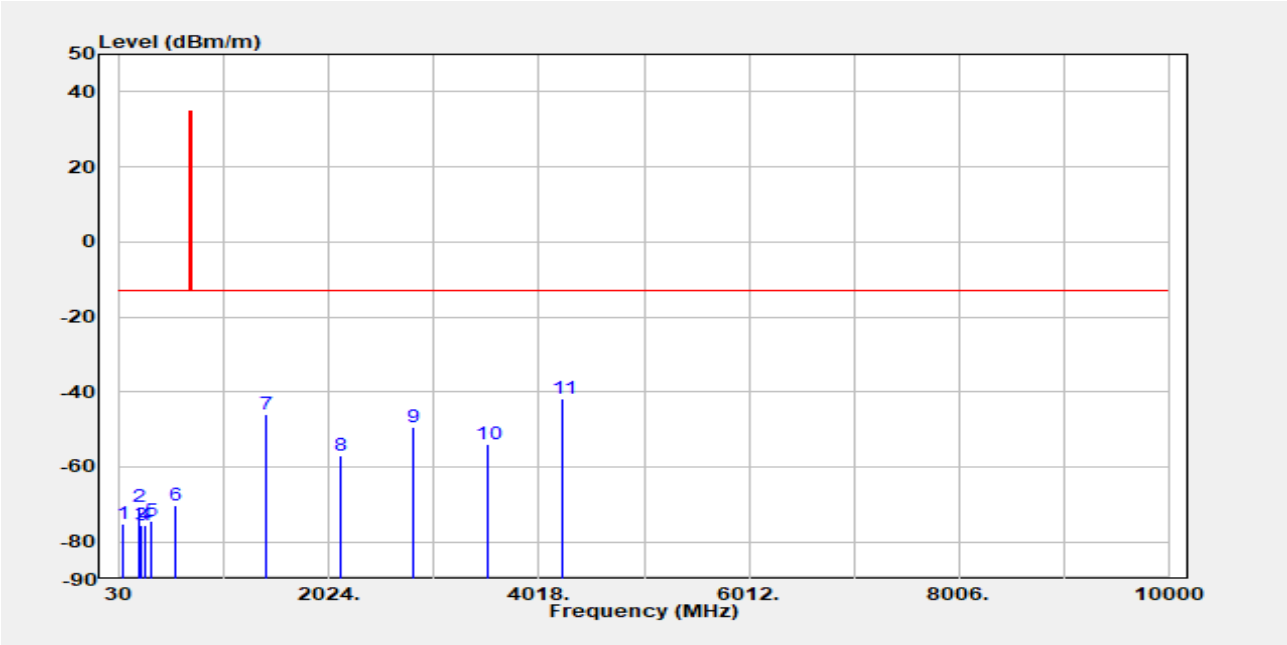
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B12 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :707.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.16 | -65.08 | -8.61 | -1.46 | -13.00 | -62.16 |
| 216.240 | -70.72 | -72.61 | 4.58 | -2.69 | -13.00 | -57.72 |
| 231.760 | -75.45 | -77.13 | 4.46 | -2.78 | -13.00 | -62.45 |
| 263.770 | -75.72 | -76.90 | 4.15 | -2.98 | -13.00 | -62.72 |
| 328.760 | -74.49 | -75.04 | 3.87 | -3.31 | -13.00 | -61.49 |
| 551.860 | -70.27 | -70.53 | 4.55 | -4.29 | -13.00 | -57.27 |
| 1415.000 | -46.07 | -46.83 | 7.65 | -6.90 | -13.00 | -33.07 |
| 2122.500 | -56.98 | -58.04 | 9.58 | -8.51 | -13.00 | -43.98 |
| 2830.000 | -49.34 | -50.35 | 10.90 | -9.89 | -13.00 | -36.34 |
| 3537.500 | -53.98 | -55.14 | 12.25 | -11.09 | -13.00 | -40.98 |
| 4245.000 | -41.89 | -42.28 | 12.59 | -12.19 | -13.00 | -28.89 |

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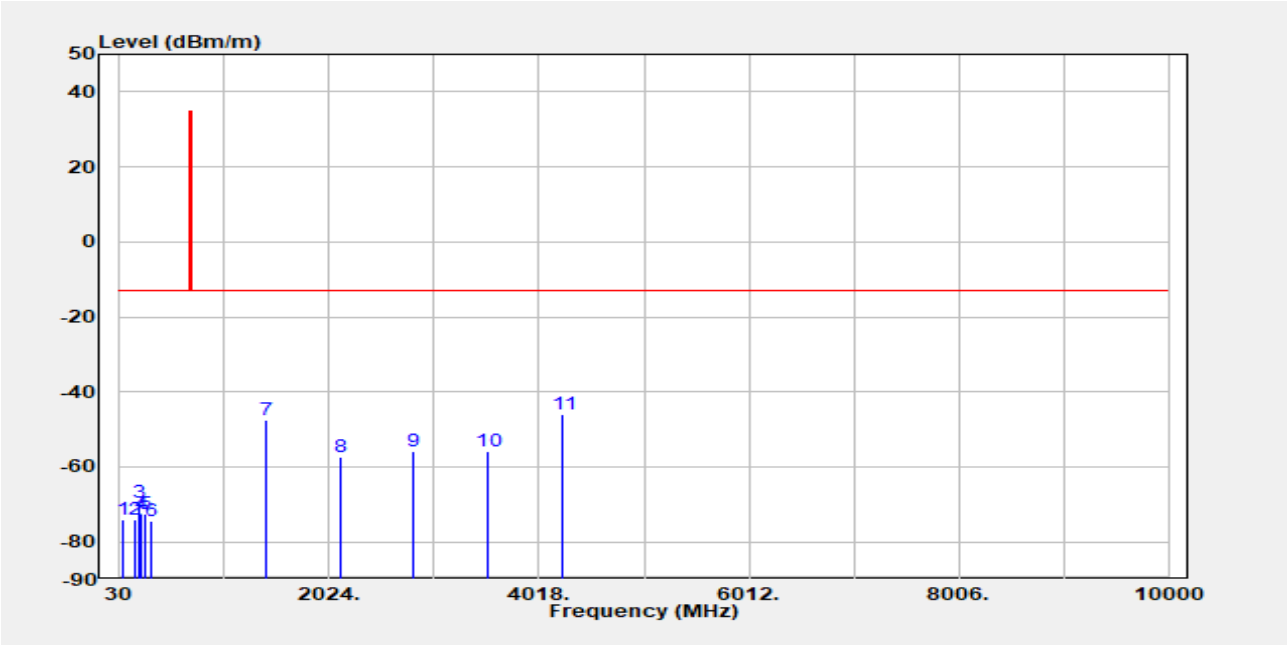
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B12 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :707.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.23 | -64.16 | -8.61 | -1.46 | -13.00 | -61.23 |
| 167.740 | -74.24 | -71.51 | -0.35 | -2.37 | -13.00 | -61.24 |
| 216.240 | -69.62 | -71.52 | 4.58 | -2.69 | -13.00 | -56.62 |
| 232.730 | -72.49 | -74.02 | 4.32 | -2.79 | -13.00 | -59.49 |
| 263.770 | -72.41 | -73.58 | 4.15 | -2.98 | -13.00 | -59.41 |
| 328.760 | -74.37 | -74.93 | 3.87 | -3.31 | -13.00 | -61.37 |
| 1415.000 | -47.36 | -48.12 | 7.65 | -6.90 | -13.00 | -34.36 |
| 2122.500 | -57.45 | -58.51 | 9.58 | -8.51 | -13.00 | -44.45 |
| 2830.000 | -55.92 | -56.93 | 10.90 | -9.89 | -13.00 | -42.92 |
| 3537.500 | -55.82 | -56.98 | 12.25 | -11.09 | -13.00 | -42.82 |
| 4245.000 | -45.85 | -46.24 | 12.59 | -12.19 | -13.00 | -32.85 |

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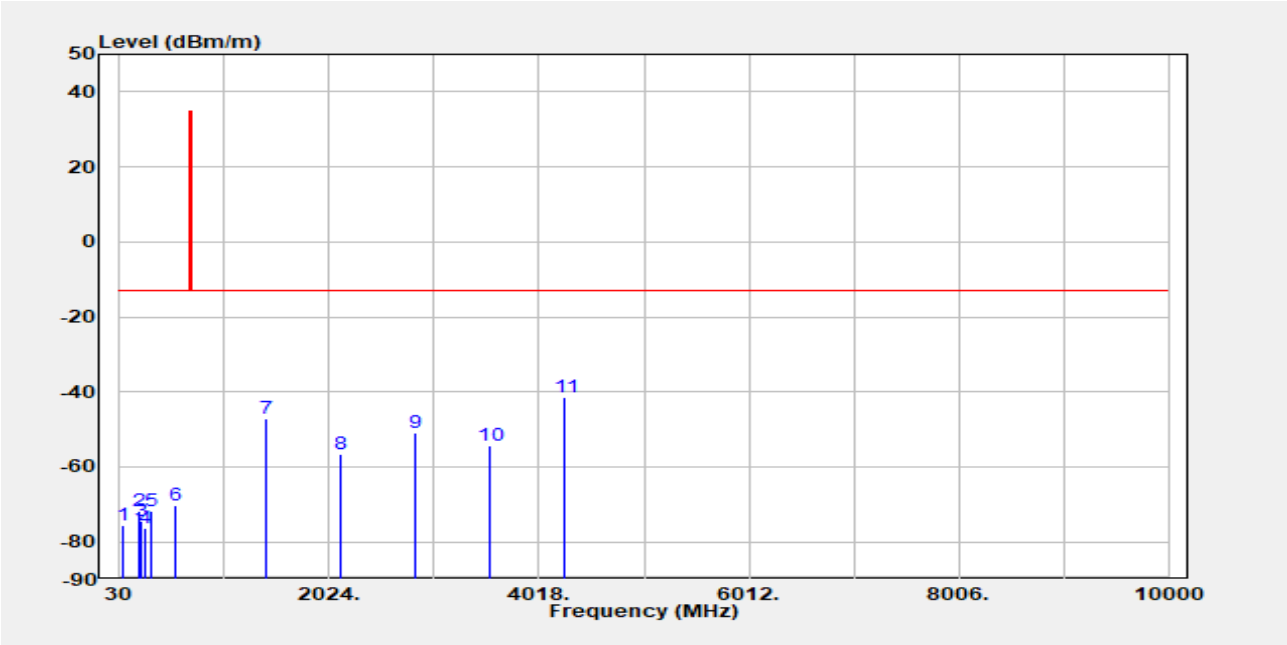
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B12 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :711 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.50 | -65.42 | -8.61 | -1.46 | -13.00 | -62.50 |
| 216.240 | -71.66 | -73.55 | 4.58 | -2.69 | -13.00 | -58.66 |
| 233.700 | -74.60 | -75.99 | 4.18 | -2.79 | -13.00 | -61.60 |
| 263.770 | -76.51 | -77.69 | 4.15 | -2.98 | -13.00 | -63.51 |
| 329.730 | -71.96 | -72.50 | 3.85 | -3.32 | -13.00 | -58.96 |
| 554.770 | -70.20 | -70.38 | 4.48 | -4.30 | -13.00 | -57.20 |
| 1422.000 | -47.25 | -48.04 | 7.70 | -6.91 | -13.00 | -34.25 |
| 2133.000 | -56.51 | -57.48 | 9.50 | -8.53 | -13.00 | -43.51 |
| 2844.000 | -50.78 | -51.76 | 10.90 | -9.92 | -13.00 | -37.78 |
| 3555.000 | -54.18 | -55.28 | 12.21 | -11.12 | -13.00 | -41.18 |
| 4266.000 | -41.46 | -41.84 | 12.60 | -12.22 | -13.00 | -28.46 |

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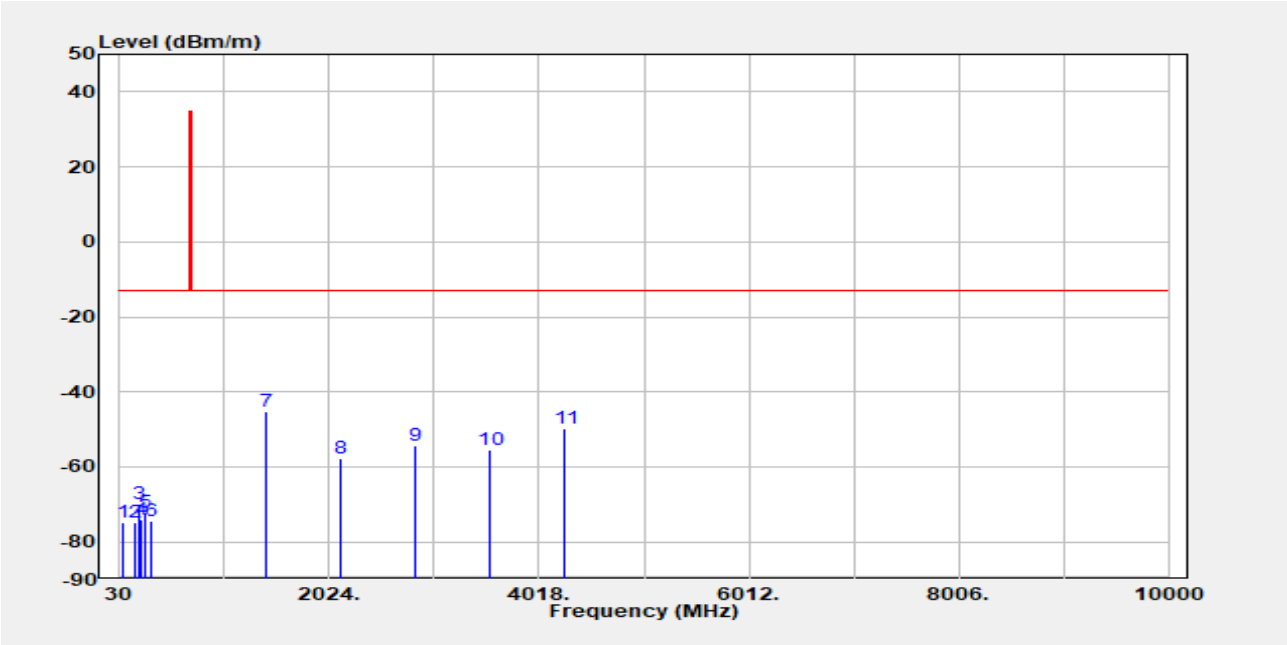
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B12 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :711 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.71 | -64.63 | -8.61 | -1.46 | -13.00 | -61.71 |
| 167.740 | -74.88 | -72.16 | -0.35 | -2.37 | -13.00 | -61.88 |
| 216.240 | -69.89 | -71.78 | 4.58 | -2.69 | -13.00 | -56.89 |
| 231.760 | -73.91 | -75.59 | 4.46 | -2.78 | -13.00 | -60.91 |
| 263.770 | -72.30 | -73.47 | 4.15 | -2.98 | -13.00 | -59.30 |
| 328.760 | -74.38 | -74.94 | 3.87 | -3.31 | -13.00 | -61.38 |
| 1422.000 | -45.10 | -45.89 | 7.70 | -6.91 | -13.00 | -32.10 |
| 2133.000 | -57.79 | -58.75 | 9.50 | -8.53 | -13.00 | -44.79 |
| 2844.000 | -54.29 | -55.27 | 10.90 | -9.92 | -13.00 | -41.29 |
| 3555.000 | -55.62 | -56.71 | 12.21 | -11.12 | -13.00 | -42.62 |
| 4266.000 | -49.73 | -50.11 | 12.60 | -12.22 | -13.00 | -36.73 |

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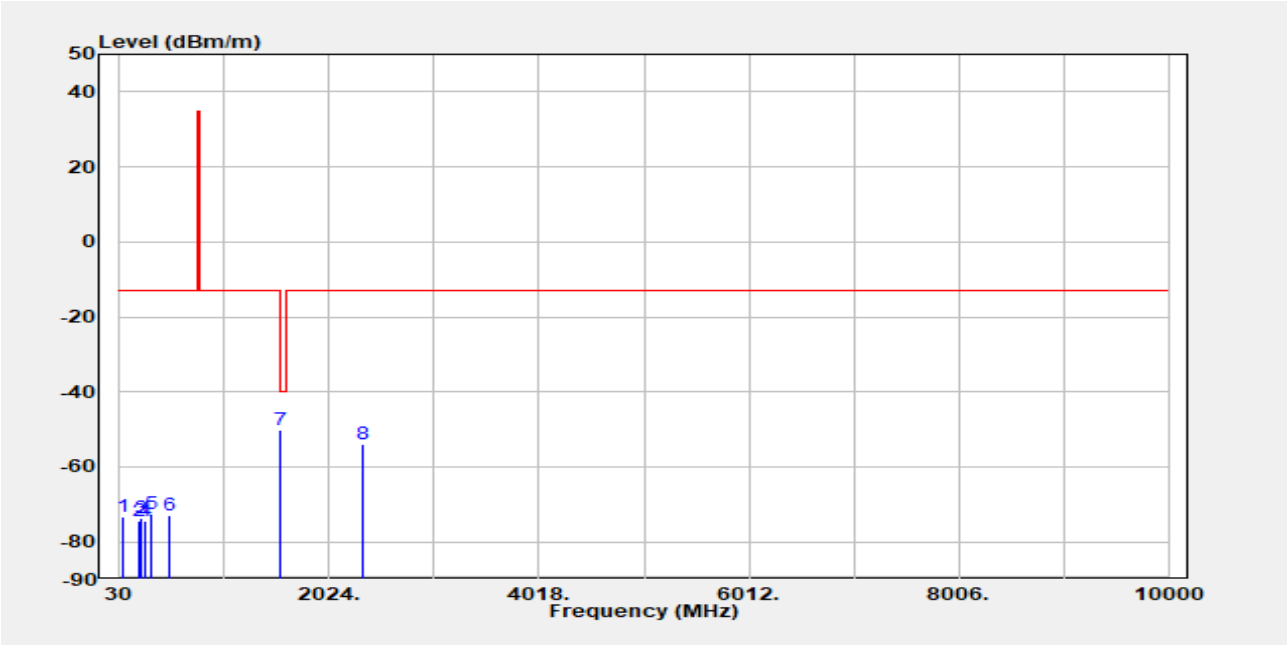
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :779.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -73.49 | -63.41 | -8.61 | -1.46 | -13.00 | -60.49 |
| 216.240 | -74.40 | -76.29 | 4.58 | -2.69 | -13.00 | -61.40 |
| 229.820 | -73.62 | -75.57 | 4.72 | -2.77 | -13.00 | -60.62 |
| 263.770 | -74.50 | -75.67 | 4.15 | -2.98 | -13.00 | -61.50 |
| 329.730 | -72.54 | -73.08 | 3.85 | -3.32 | -13.00 | -59.54 |
| 494.630 | -72.95 | -72.87 | 3.97 | -4.06 | -13.00 | -59.95 |
| 1559.000 | -50.16 | -52.10 | 9.19 | -7.25 | -40.00 | -10.16 |
| 2338.500 | -54.03 | -54.94 | 9.87 | -8.96 | -13.00 | -41.03 |

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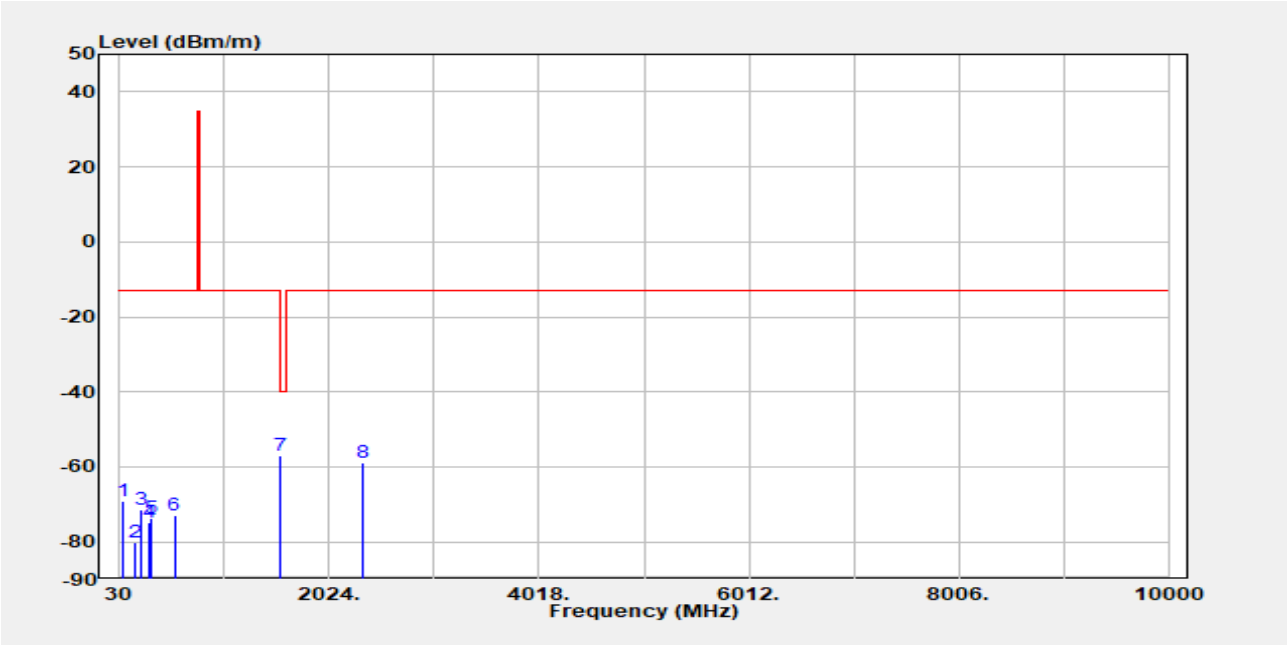
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :779.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -69.05 | -58.97 | -8.61 | -1.46 | -13.00 | -56.05 |
| 167.740 | -79.96 | -77.24 | -0.35 | -2.37 | -13.00 | -66.96 |
| 231.760 | -71.54 | -73.22 | 4.46 | -2.78 | -13.00 | -58.54 |
| 311.300 | -74.85 | -75.42 | 3.79 | -3.22 | -13.00 | -61.85 |
| 338.460 | -73.87 | -74.47 | 3.97 | -3.36 | -13.00 | -60.87 |
| 549.920 | -72.89 | -73.20 | 4.59 | -4.28 | -13.00 | -59.89 |
| 1559.000 | -56.84 | -58.78 | 9.19 | -7.25 | -40.00 | -16.84 |
| 2338.500 | -58.70 | -59.62 | 9.87 | -8.96 | -13.00 | -45.70 |

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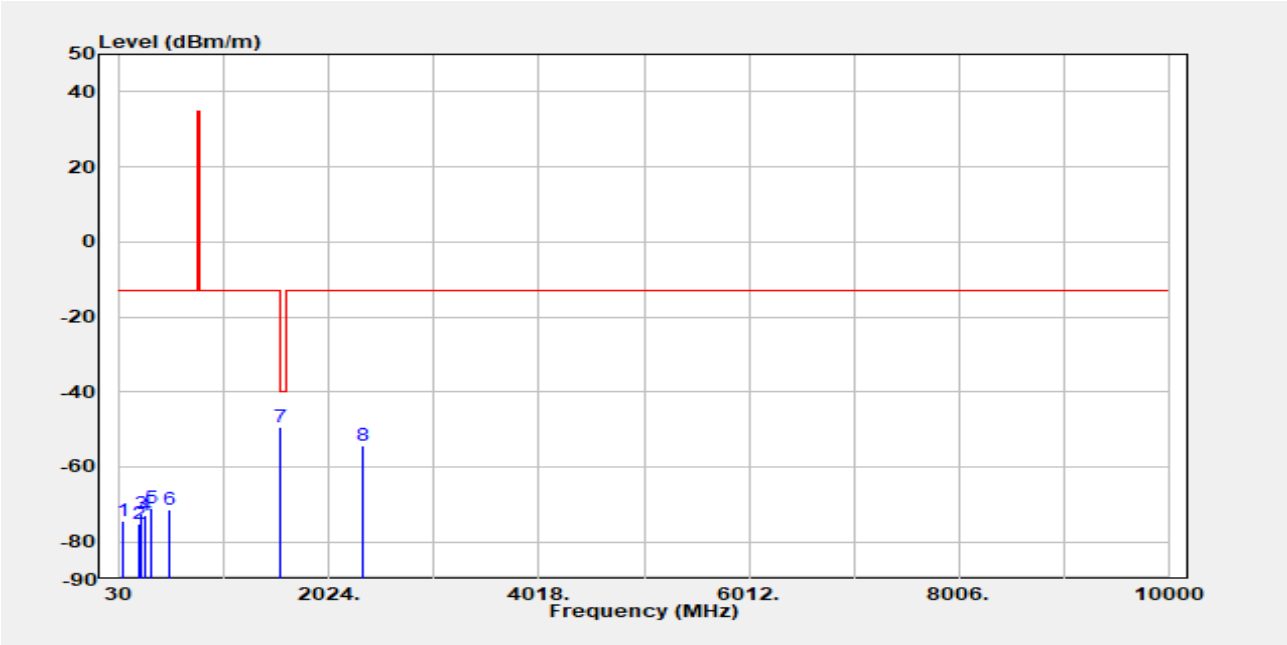
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :782 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.50 | -64.43 | -8.61 | -1.46 | -13.00 | -61.50 |
| 216.240 | -75.11 | -77.00 | 4.58 | -2.69 | -13.00 | -62.11 |
| 229.820 | -72.50 | -74.45 | 4.72 | -2.77 | -13.00 | -59.50 |
| 263.770 | -73.02 | -74.20 | 4.15 | -2.98 | -13.00 | -60.02 |
| 327.790 | -71.20 | -71.77 | 3.88 | -3.31 | -13.00 | -58.20 |
| 494.630 | -71.27 | -71.18 | 3.97 | -4.06 | -13.00 | -58.27 |
| 1564.000 | -49.53 | -51.47 | 9.20 | -7.26 | -40.00 | -9.53 |
| 2346.000 | -54.32 | -55.25 | 9.90 | -8.97 | -13.00 | -41.32 |

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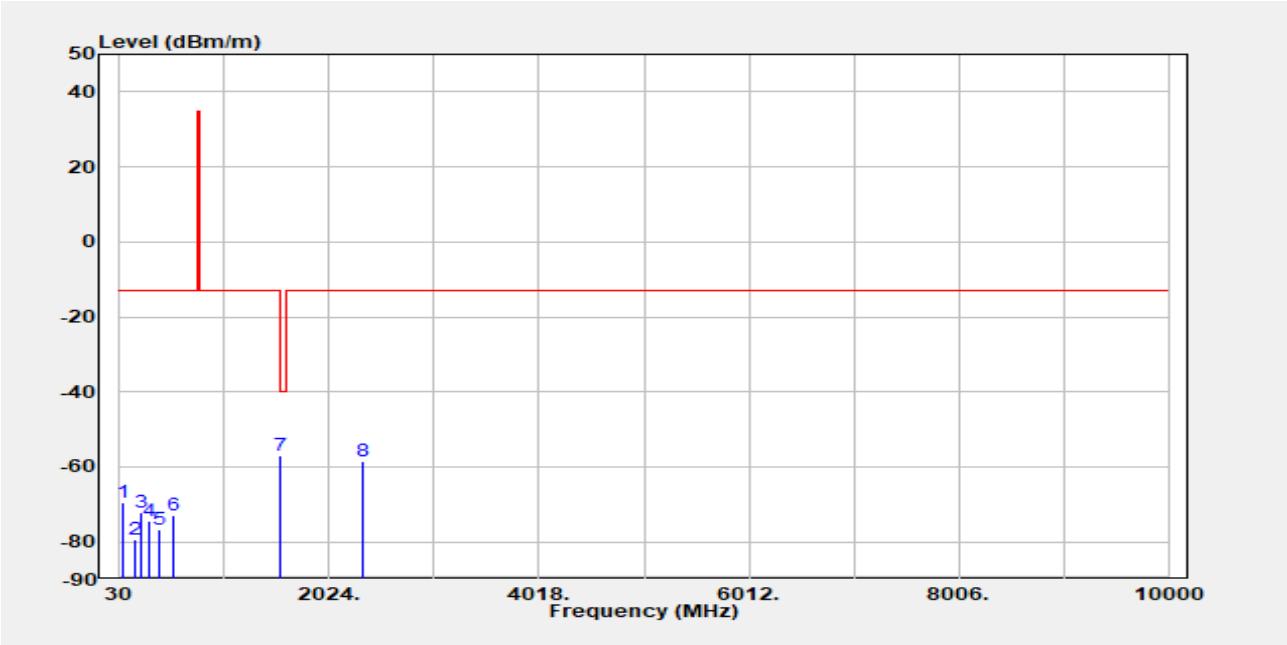
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :782 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -69.42 | -59.34 | -8.61 | -1.46 | -13.00 | -56.42 |
| 167.740 | -79.21 | -76.48 | -0.35 | -2.37 | -13.00 | -66.21 |
| 233.700 | -72.05 | -73.44 | 4.18 | -2.79 | -13.00 | -59.05 |
| 314.210 | -74.44 | -74.97 | 3.76 | -3.24 | -13.00 | -61.44 |
| 407.330 | -76.80 | -77.10 | 3.98 | -3.68 | -13.00 | -63.80 |
| 548.950 | -72.91 | -73.20 | 4.57 | -4.28 | -13.00 | -59.91 |
| 1564.000 | -57.15 | -59.09 | 9.20 | -7.26 | -40.00 | -17.15 |
| 2346.000 | -58.60 | -59.53 | 9.90 | -8.97 | -13.00 | -45.60 |

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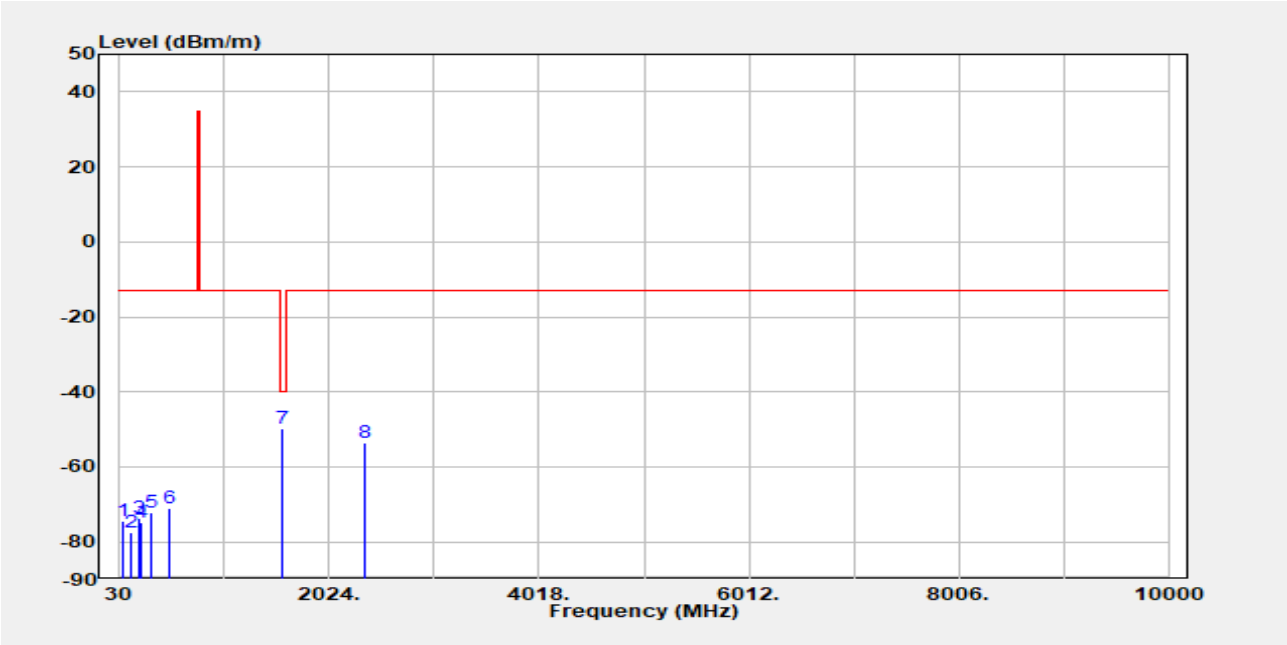
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :784.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.48 | -64.40 | -8.61 | -1.46 | -13.00 | -61.48 |
| 134.760 | -77.48 | -73.55 | -1.80 | -2.12 | -13.00 | -64.48 |
| 216.240 | -73.60 | -75.50 | 4.58 | -2.69 | -13.00 | -60.60 |
| 236.610 | -74.86 | -75.95 | 3.90 | -2.81 | -13.00 | -61.86 |
| 329.730 | -71.98 | -72.51 | 3.85 | -3.32 | -13.00 | -58.98 |
| 492.690 | -71.19 | -71.11 | 3.97 | -4.05 | -13.00 | -58.19 |
| 1569.000 | -49.79 | -51.72 | 9.20 | -7.27 | -40.00 | -9.79 |
| 2353.500 | -53.62 | -54.57 | 9.93 | -8.99 | -13.00 | -40.62 |

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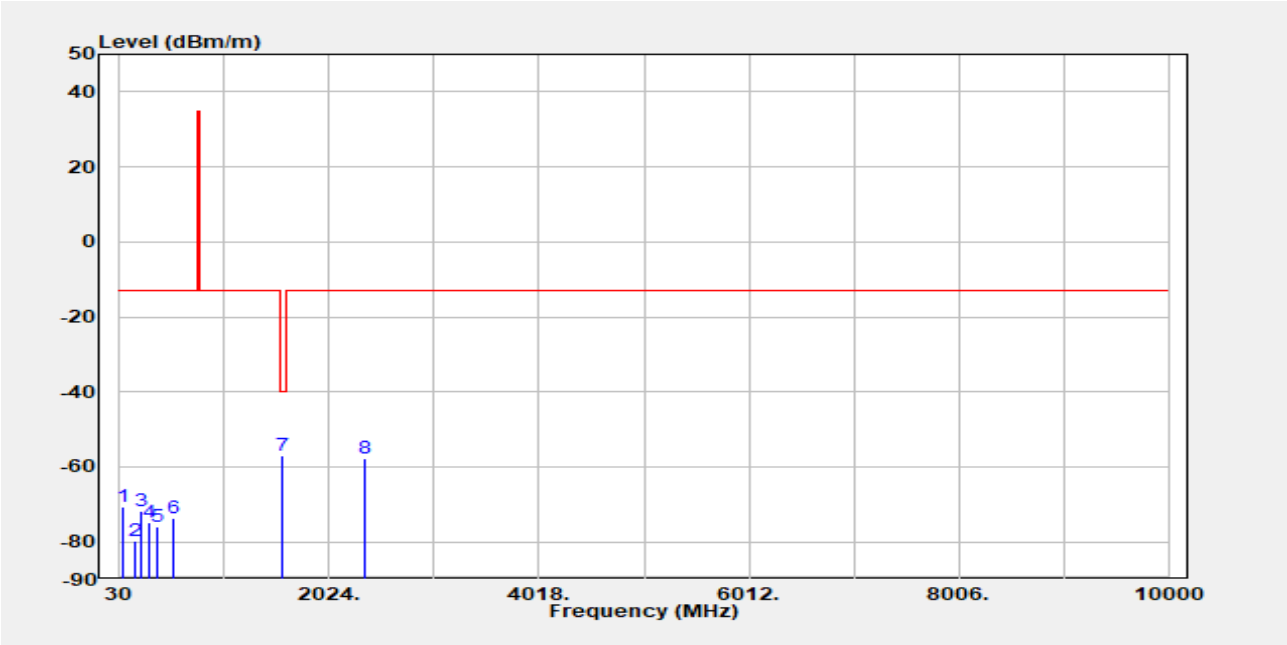
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :784.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -70.62 | -60.54 | -8.61 | -1.46 | -13.00 | -57.62 |
| 167.740 | -79.79 | -77.06 | -0.35 | -2.37 | -13.00 | -66.79 |
| 233.700 | -71.71 | -73.10 | 4.18 | -2.79 | -13.00 | -58.71 |
| 310.330 | -74.84 | -75.43 | 3.81 | -3.21 | -13.00 | -61.84 |
| 384.050 | -76.05 | -76.38 | 3.91 | -3.58 | -13.00 | -63.05 |
| 545.070 | -73.65 | -73.90 | 4.51 | -4.26 | -13.00 | -60.65 |
| 1569.000 | -57.17 | -59.10 | 9.20 | -7.27 | -40.00 | -17.17 |
| 2353.500 | -57.82 | -58.77 | 9.93 | -8.99 | -13.00 | -44.82 |

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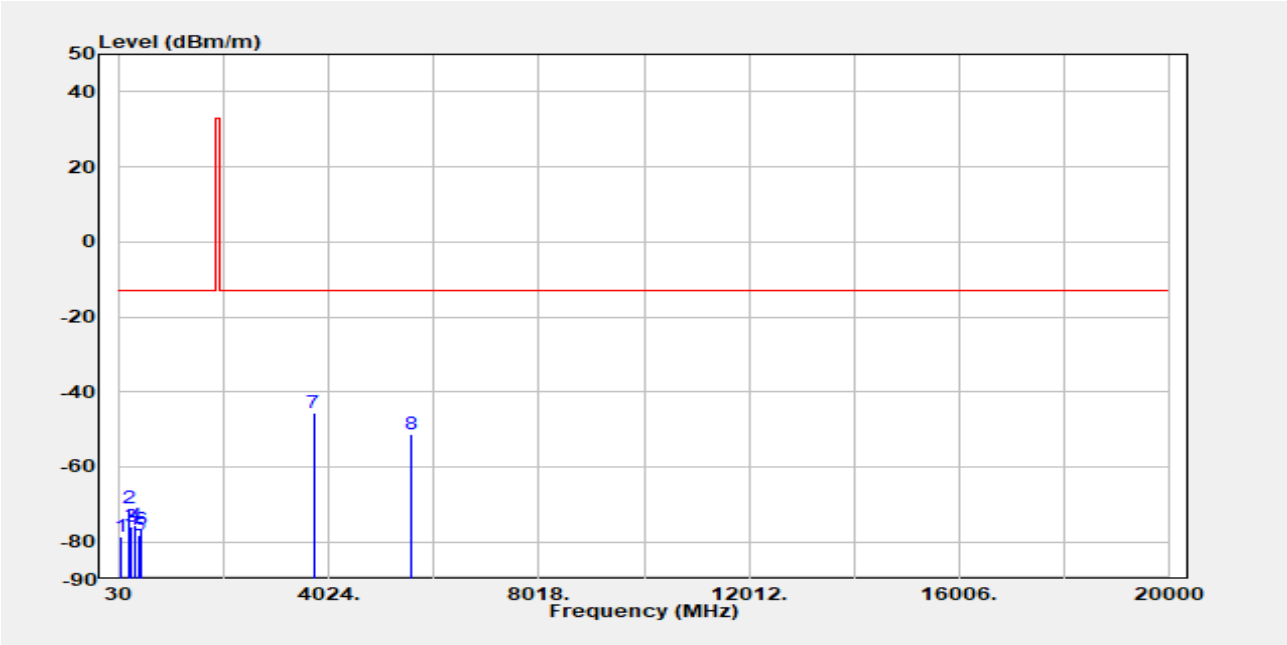
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B25 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1860 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 65.890 | -78.57 | -69.29 | -7.80 | -1.48 | -13.00 | -65.57 |
| 216.240 | -70.87 | -72.76 | 4.58 | -2.69 | -13.00 | -57.87 |
| 263.770 | -76.01 | -77.18 | 4.15 | -2.98 | -13.00 | -63.01 |
| 327.790 | -75.73 | -76.30 | 3.88 | -3.31 | -13.00 | -62.73 |
| 382.110 | -78.14 | -78.51 | 3.94 | -3.57 | -13.00 | -65.14 |
| 453.890 | -76.65 | -76.58 | 3.82 | -3.89 | -13.00 | -63.65 |
| 3720.000 | -45.75 | -46.87 | 12.50 | -11.38 | -13.00 | -32.75 |
| 5580.000 | -51.45 | -50.47 | 13.12 | -14.10 | -13.00 | -38.45 |

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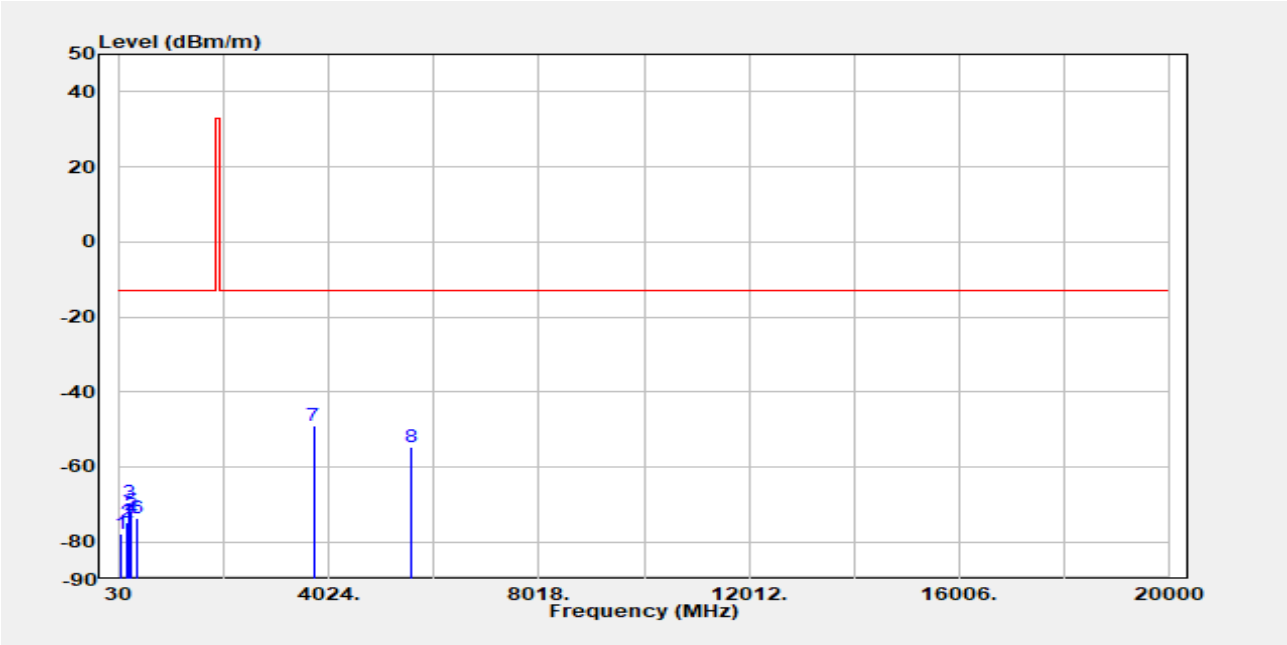
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B25 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1860 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 65.890 | -77.98 | -68.70 | -7.80 | -1.48 | -13.00 | -64.98 |
| 167.740 | -74.66 | -71.94 | -0.35 | -2.37 | -13.00 | -61.66 |
| 216.240 | -69.53 | -71.42 | 4.58 | -2.69 | -13.00 | -56.53 |
| 231.760 | -73.76 | -75.44 | 4.46 | -2.78 | -13.00 | -60.76 |
| 263.770 | -71.95 | -73.12 | 4.15 | -2.98 | -13.00 | -58.95 |
| 343.310 | -73.51 | -74.16 | 4.03 | -3.38 | -13.00 | -60.51 |
| 3720.000 | -49.06 | -50.18 | 12.50 | -11.38 | -13.00 | -36.06 |
| 5580.000 | -54.67 | -53.70 | 13.12 | -14.10 | -13.00 | -41.67 |

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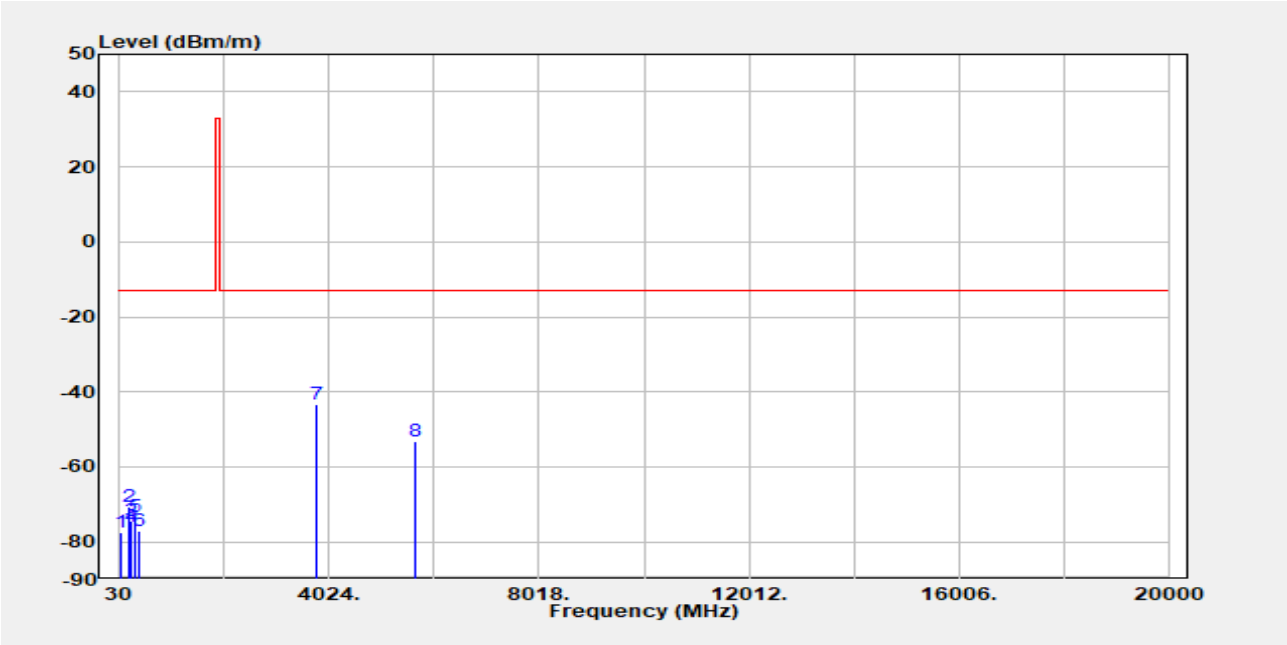
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B25 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1882.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -77.61 | -64.71 | -11.58 | -1.33 | -13.00 | -64.61 |
| 216.240 | -70.77 | -72.66 | 4.58 | -2.69 | -13.00 | -57.77 |
| 230.790 | -74.59 | -76.42 | 4.60 | -2.77 | -13.00 | -61.59 |
| 263.770 | -76.12 | -77.29 | 4.15 | -2.98 | -13.00 | -63.12 |
| 327.790 | -73.27 | -73.84 | 3.88 | -3.31 | -13.00 | -60.27 |
| 413.150 | -77.20 | -77.59 | 4.10 | -3.71 | -13.00 | -64.20 |
| 3765.000 | -43.34 | -44.39 | 12.50 | -11.45 | -13.00 | -30.34 |
| 5647.500 | -53.20 | -52.32 | 13.30 | -14.18 | -13.00 | -40.20 |

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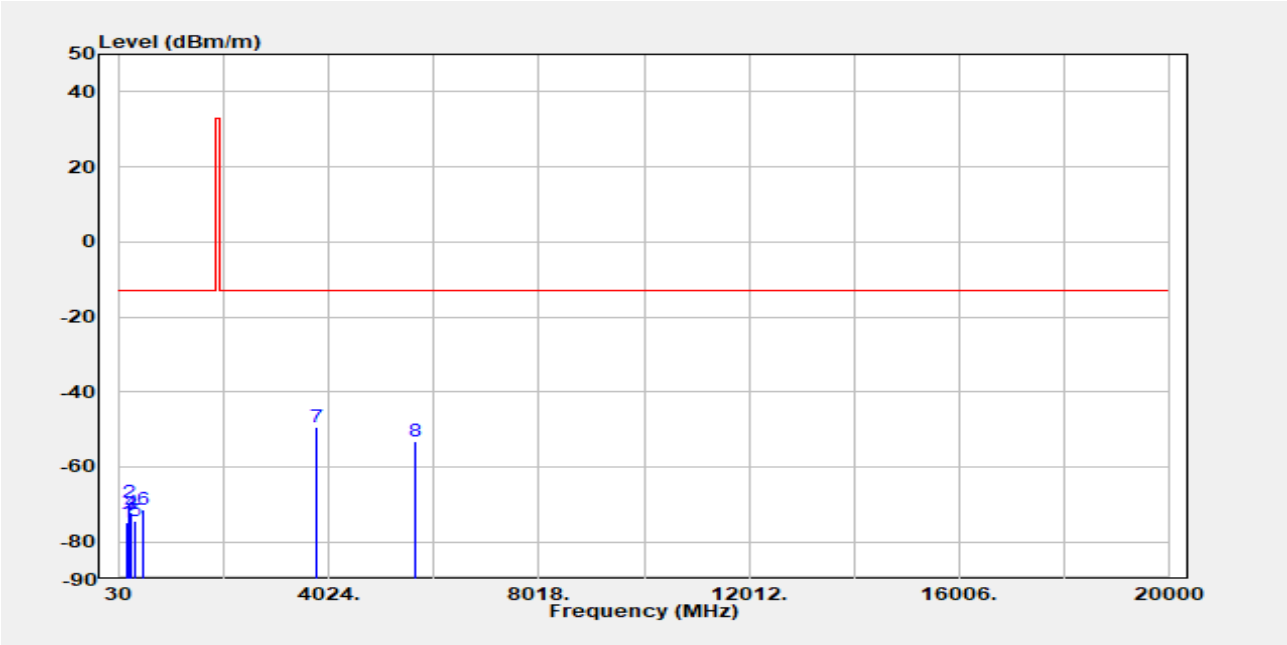
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B25 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1882.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 167.740 | -74.74 | -72.02 | -0.35 | -2.37 | -13.00 | -61.74 |
| 216.240 | -69.57 | -71.46 | 4.58 | -2.69 | -13.00 | -56.57 |
| 231.760 | -72.68 | -74.36 | 4.46 | -2.78 | -13.00 | -59.68 |
| 263.770 | -72.02 | -73.20 | 4.15 | -2.98 | -13.00 | -59.02 |
| 329.730 | -74.28 | -74.81 | 3.85 | -3.32 | -13.00 | -61.28 |
| 492.690 | -71.60 | -71.52 | 3.97 | -4.05 | -13.00 | -58.60 |
| 3765.000 | -49.52 | -50.57 | 12.50 | -11.45 | -13.00 | -36.52 |
| 5647.500 | -53.25 | -52.37 | 13.30 | -14.18 | -13.00 | -40.25 |

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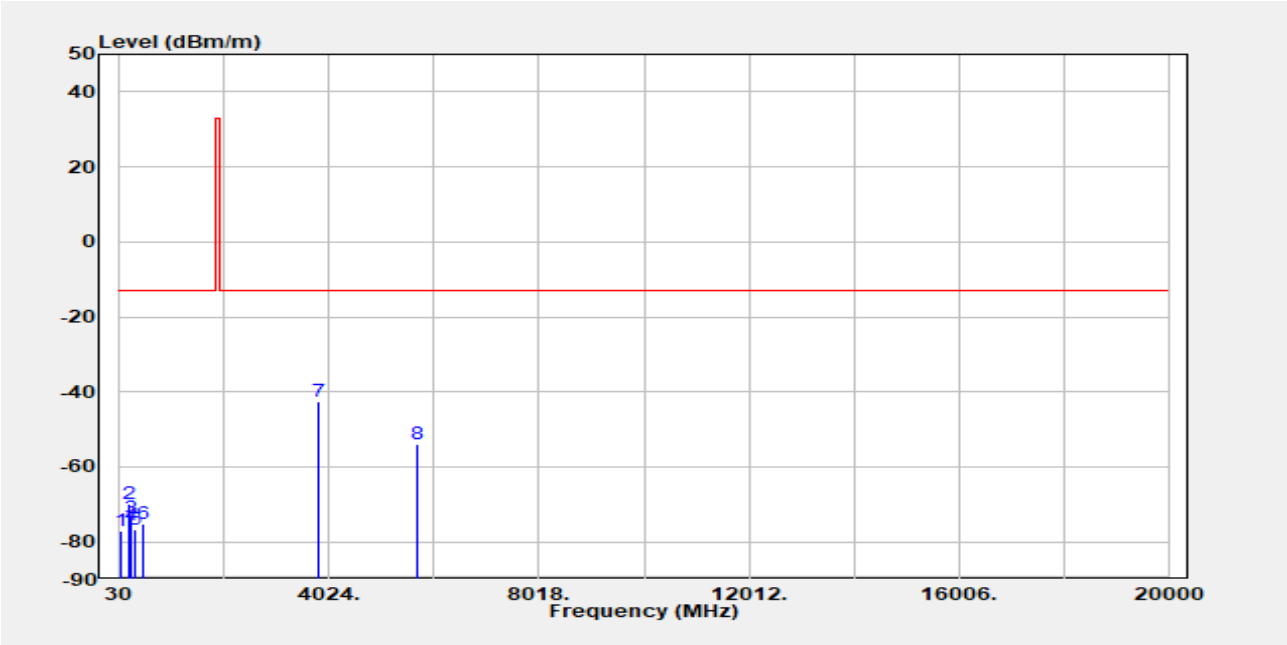
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B25 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1905 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -77.15 | -64.24 | -11.58 | -1.33 | -13.00 | -64.15 |
| 216.240 | -69.85 | -71.74 | 4.58 | -2.69 | -13.00 | -56.85 |
| 231.760 | -73.59 | -75.27 | 4.46 | -2.78 | -13.00 | -60.59 |
| 263.770 | -75.66 | -76.83 | 4.15 | -2.98 | -13.00 | -62.66 |
| 328.760 | -76.55 | -77.10 | 3.87 | -3.31 | -13.00 | -63.55 |
| 493.660 | -75.19 | -75.11 | 3.97 | -4.05 | -13.00 | -62.19 |
| 3810.000 | -42.65 | -43.61 | 12.48 | -11.52 | -13.00 | -29.65 |
| 5715.000 | -53.95 | -52.78 | 13.10 | -14.27 | -13.00 | -40.95 |

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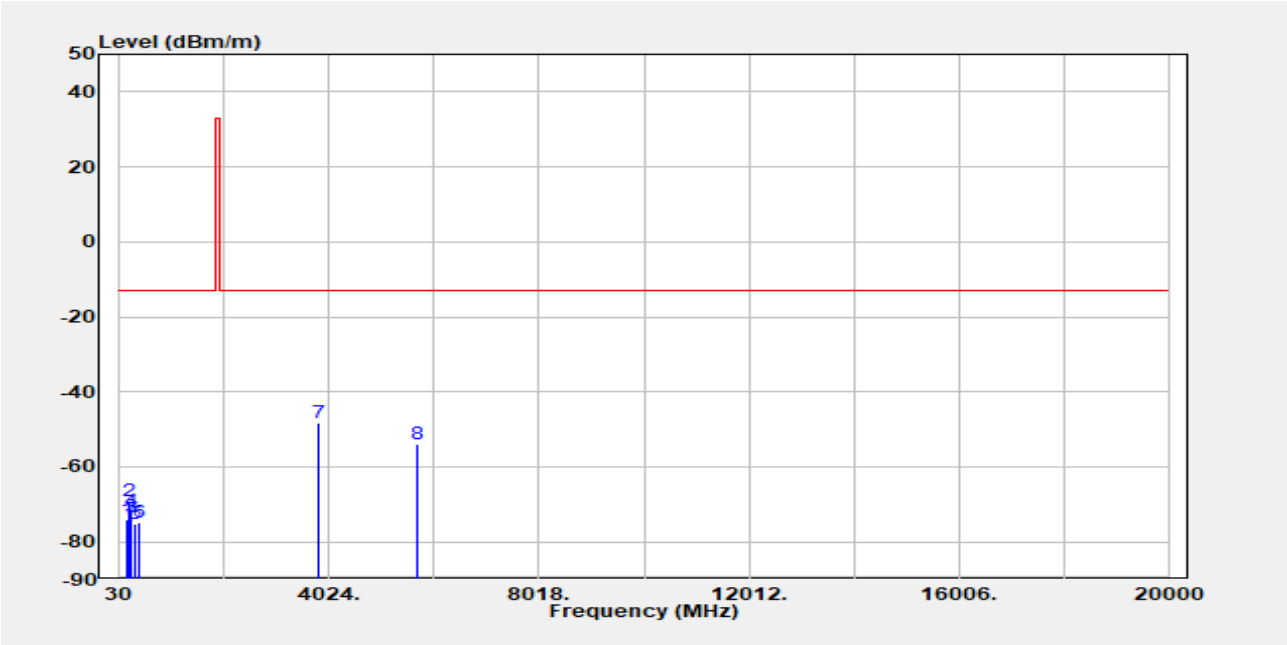
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B25 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1905 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 167.740 | -74.21 | -71.49 | -0.35 | -2.37 | -13.00 | -61.21 |
| 216.240 | -69.30 | -71.20 | 4.58 | -2.69 | -13.00 | -56.30 |
| 230.790 | -73.33 | -75.15 | 4.60 | -2.77 | -13.00 | -60.33 |
| 263.770 | -71.90 | -73.07 | 4.15 | -2.98 | -13.00 | -58.90 |
| 327.790 | -75.38 | -75.95 | 3.88 | -3.31 | -13.00 | -62.38 |
| 385.990 | -75.01 | -75.31 | 3.89 | -3.58 | -13.00 | -62.01 |
| 3810.000 | -48.41 | -49.37 | 12.48 | -11.52 | -13.00 | -35.41 |
| 5715.000 | -54.09 | -52.92 | 13.10 | -14.27 | -13.00 | -41.09 |

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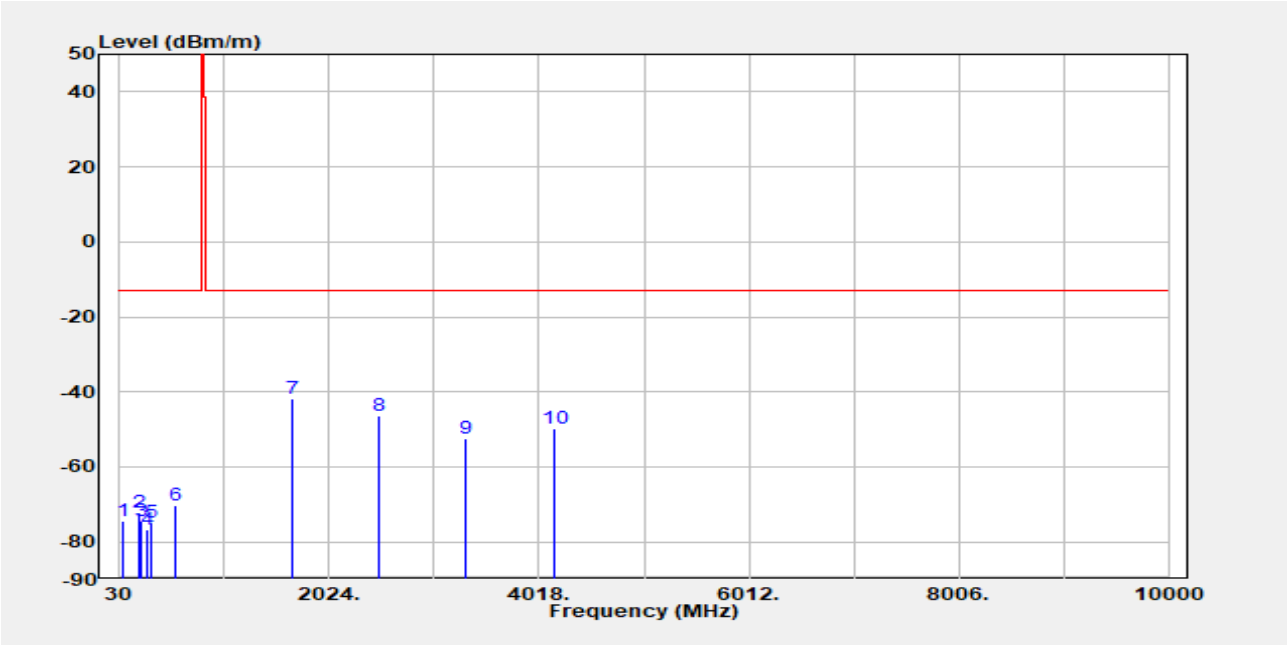
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :831.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.35 | -64.27 | -8.61 | -1.46 | -13.00 | -61.35 |
| 216.240 | -72.23 | -74.12 | 4.58 | -2.69 | -13.00 | -59.23 |
| 231.760 | -74.33 | -76.01 | 4.46 | -2.78 | -13.00 | -61.33 |
| 284.140 | -76.67 | -77.27 | 3.69 | -3.08 | -13.00 | -63.67 |
| 329.730 | -74.88 | -75.42 | 3.85 | -3.32 | -13.00 | -61.88 |
| 563.500 | -70.11 | -70.13 | 4.36 | -4.33 | -13.00 | -57.11 |
| 1663.000 | -41.91 | -44.05 | 9.63 | -7.49 | -13.00 | -28.91 |
| 2494.500 | -46.44 | -47.72 | 10.55 | -9.26 | -13.00 | -33.44 |
| 3326.000 | -52.56 | -54.16 | 12.35 | -10.75 | -13.00 | -39.56 |
| 4157.500 | -49.85 | -50.29 | 12.50 | -12.06 | -13.00 | -36.85 |

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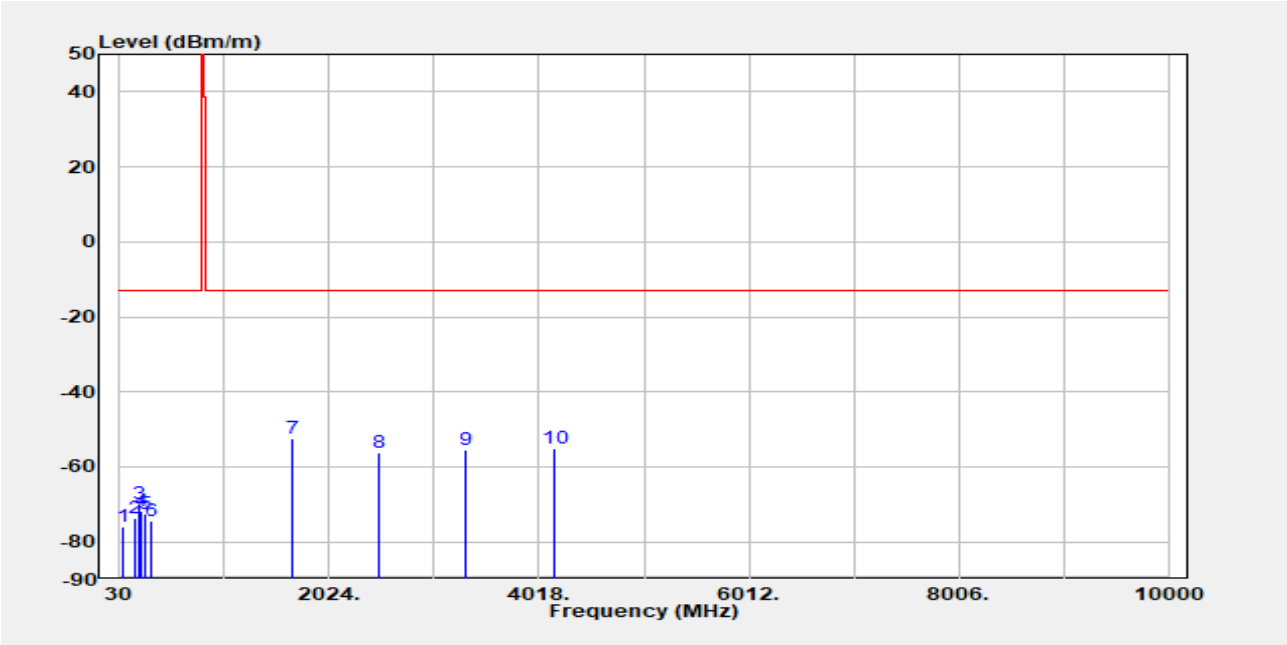
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :831.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -76.05 | -65.97 | -8.61 | -1.46 | -13.00 | -63.05 |
| 167.740 | -73.71 | -70.98 | -0.35 | -2.37 | -13.00 | -60.71 |
| 216.240 | -69.95 | -71.85 | 4.58 | -2.69 | -13.00 | -56.95 |
| 231.760 | -71.90 | -73.58 | 4.46 | -2.78 | -13.00 | -58.90 |
| 263.770 | -72.50 | -73.67 | 4.15 | -2.98 | -13.00 | -59.50 |
| 328.760 | -74.59 | -75.15 | 3.87 | -3.31 | -13.00 | -61.59 |
| 1663.000 | -52.56 | -54.70 | 9.63 | -7.49 | -13.00 | -39.56 |
| 2494.500 | -56.22 | -57.51 | 10.55 | -9.26 | -13.00 | -43.22 |
| 3326.000 | -55.52 | -57.12 | 12.35 | -10.75 | -13.00 | -42.52 |
| 4157.500 | -55.24 | -55.68 | 12.50 | -12.06 | -13.00 | -42.24 |

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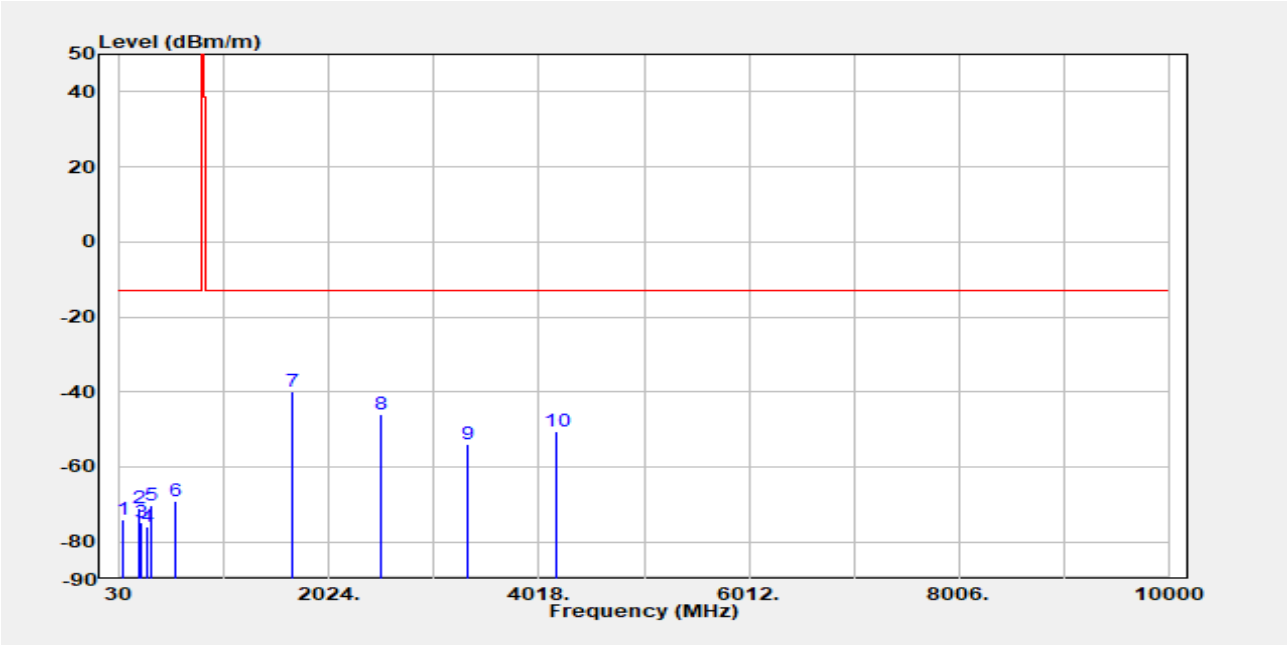
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :836.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.08 | -64.01 | -8.61 | -1.46 | -13.00 | -61.08 |
| 216.240 | -71.10 | -73.00 | 4.58 | -2.69 | -13.00 | -58.10 |
| 231.760 | -74.75 | -76.43 | 4.46 | -2.78 | -13.00 | -61.75 |
| 282.200 | -75.91 | -76.54 | 3.70 | -3.07 | -13.00 | -62.91 |
| 329.730 | -70.26 | -70.79 | 3.85 | -3.32 | -13.00 | -57.26 |
| 558.650 | -69.12 | -69.25 | 4.45 | -4.31 | -13.00 | -56.12 |
| 1673.000 | -40.03 | -42.24 | 9.73 | -7.52 | -13.00 | -27.03 |
| 2509.500 | -45.80 | -47.21 | 10.70 | -9.29 | -13.00 | -32.80 |
| 3346.000 | -53.88 | -55.49 | 12.39 | -10.78 | -13.00 | -40.88 |
| 4182.500 | -50.43 | -50.83 | 12.50 | -12.10 | -13.00 | -37.43 |

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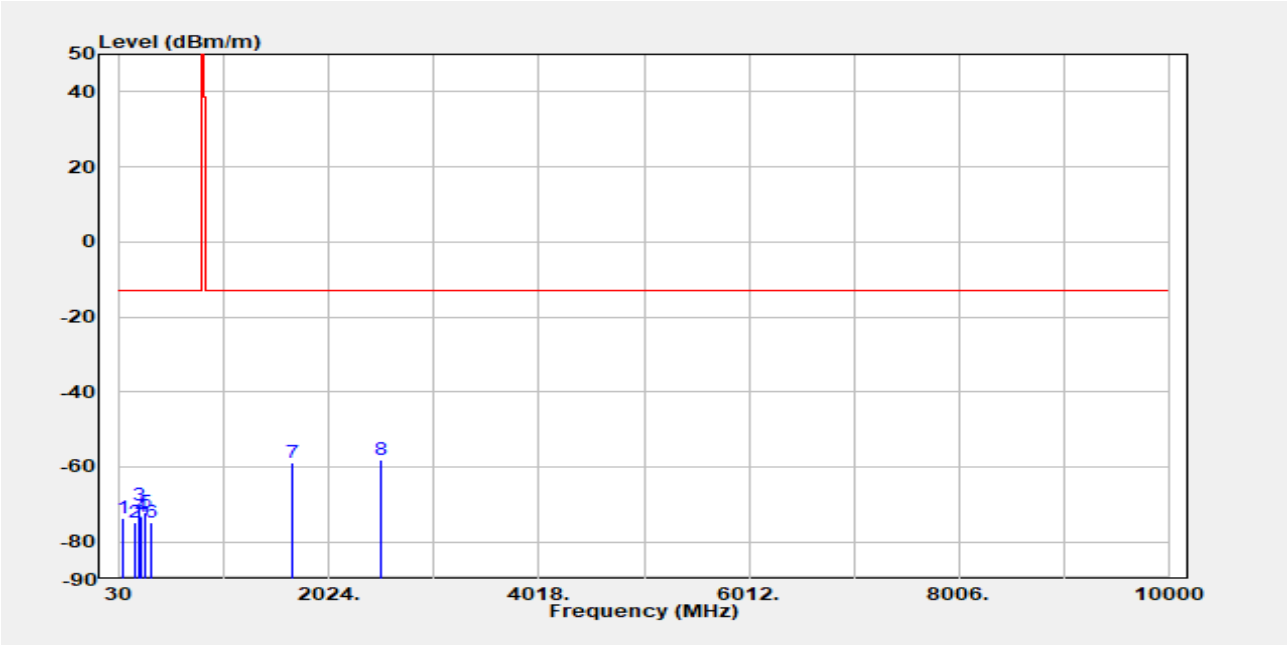
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :836.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -73.64 | -63.57 | -8.61 | -1.46 | -13.00 | -60.64 |
| 167.740 | -74.70 | -71.98 | -0.35 | -2.37 | -13.00 | -61.70 |
| 216.240 | -70.15 | -72.05 | 4.58 | -2.69 | -13.00 | -57.15 |
| 235.640 | -73.13 | -74.28 | 3.96 | -2.80 | -13.00 | -60.13 |
| 263.770 | -72.28 | -73.45 | 4.15 | -2.98 | -13.00 | -59.28 |
| 328.760 | -74.80 | -75.35 | 3.87 | -3.31 | -13.00 | -61.80 |
| 1673.000 | -58.88 | -61.09 | 9.73 | -7.52 | -13.00 | -45.88 |
| 2509.500 | -58.21 | -59.62 | 10.70 | -9.29 | -13.00 | -45.21 |

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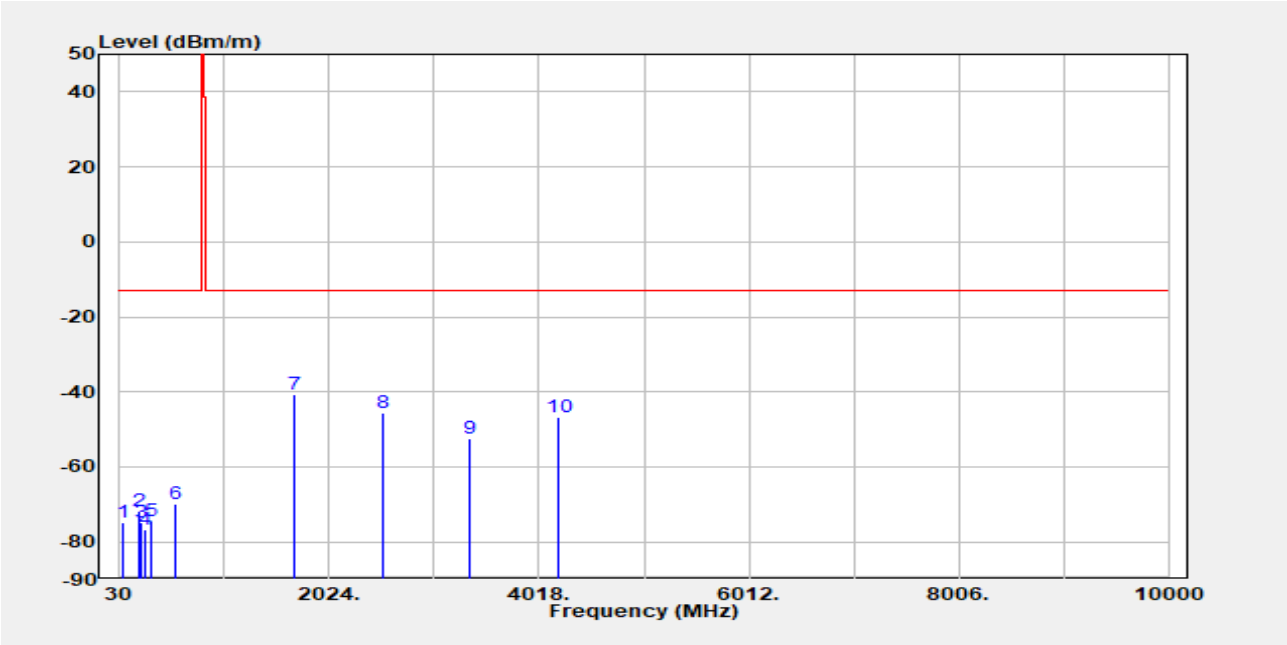
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :841.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.97 | -64.89 | -8.61 | -1.46 | -13.00 | -61.97 |
| 216.240 | -71.78 | -73.67 | 4.58 | -2.69 | -13.00 | -58.78 |
| 233.700 | -74.72 | -76.11 | 4.18 | -2.79 | -13.00 | -61.72 |
| 263.770 | -76.64 | -77.82 | 4.15 | -2.98 | -13.00 | -63.64 |
| 329.730 | -74.46 | -75.00 | 3.85 | -3.32 | -13.00 | -61.46 |
| 559.620 | -69.92 | -70.05 | 4.44 | -4.32 | -13.00 | -56.92 |
| 1683.000 | -40.62 | -42.91 | 9.83 | -7.54 | -13.00 | -27.62 |
| 2524.500 | -45.63 | -46.87 | 10.56 | -9.32 | -13.00 | -32.63 |
| 3366.000 | -52.46 | -54.11 | 12.46 | -10.82 | -13.00 | -39.46 |
| 4207.500 | -46.67 | -47.05 | 12.52 | -12.13 | -13.00 | -33.67 |

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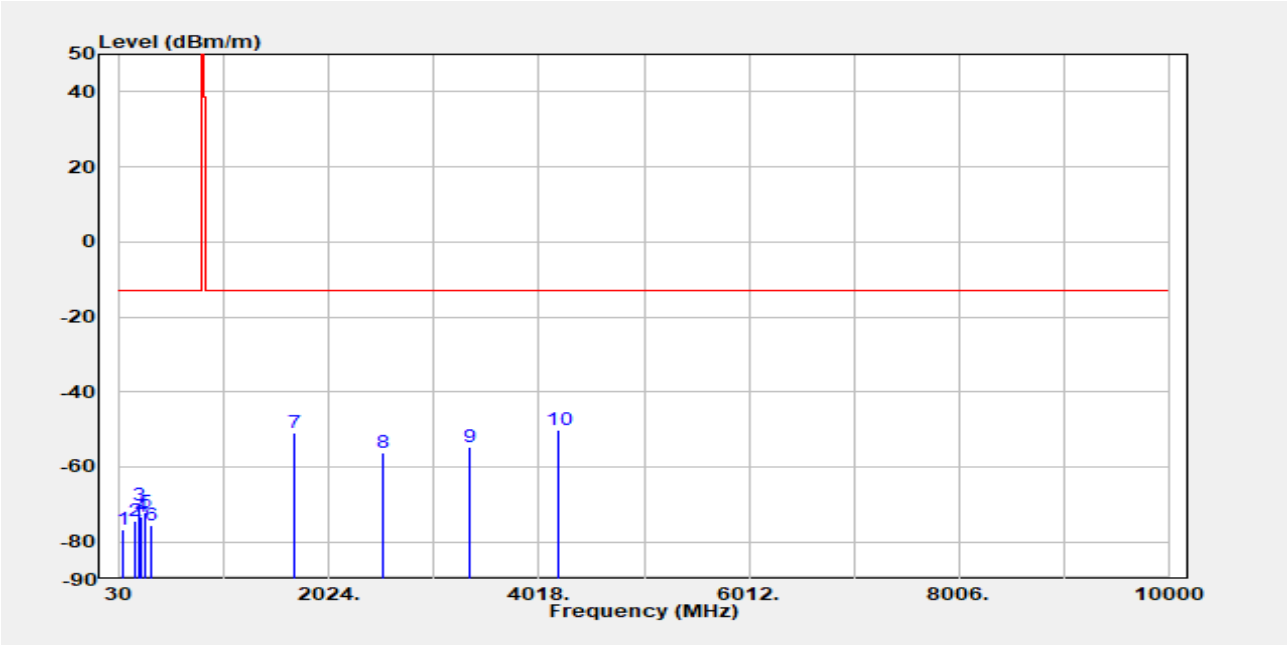
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :841.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -76.68 | -66.61 | -8.61 | -1.46 | -13.00 | -63.68 |
| 167.740 | -74.51 | -71.79 | -0.35 | -2.37 | -13.00 | -61.51 |
| 216.240 | -70.23 | -72.13 | 4.58 | -2.69 | -13.00 | -57.23 |
| 230.790 | -73.42 | -75.25 | 4.60 | -2.77 | -13.00 | -60.42 |
| 263.770 | -72.33 | -73.50 | 4.15 | -2.98 | -13.00 | -59.33 |
| 332.640 | -75.65 | -76.18 | 3.87 | -3.33 | -13.00 | -62.65 |
| 1683.000 | -50.77 | -53.06 | 9.83 | -7.54 | -13.00 | -37.77 |
| 2524.500 | -56.10 | -57.34 | 10.56 | -9.32 | -13.00 | -43.10 |
| 3366.000 | -54.90 | -56.55 | 12.46 | -10.82 | -13.00 | -41.90 |
| 4207.500 | -50.11 | -50.49 | 12.52 | -12.13 | -13.00 | -37.11 |

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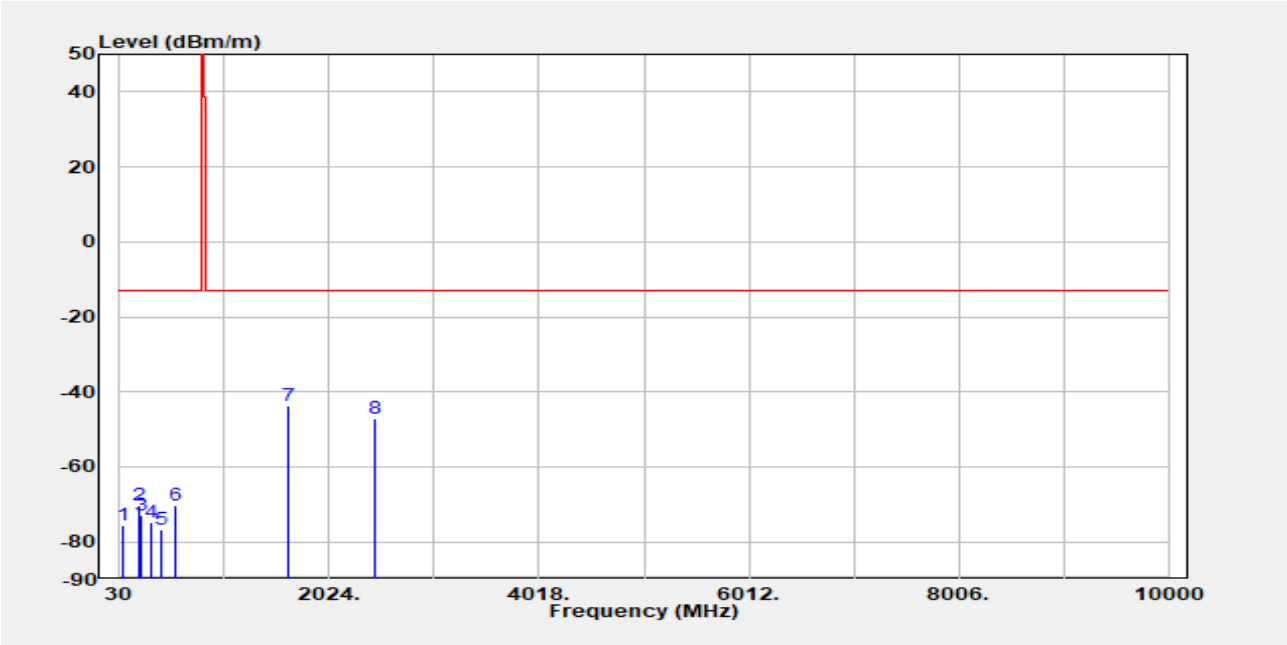
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26(Part90S) | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :816.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.74 | -65.67 | -8.61 | -1.46 | -13.00 | -62.74 |
| 216.240 | -70.34 | -72.23 | 4.58 | -2.69 | -13.00 | -57.34 |
| 230.790 | -73.07 | -74.90 | 4.60 | -2.77 | -13.00 | -60.07 |
| 328.760 | -74.92 | -75.47 | 3.87 | -3.31 | -13.00 | -61.92 |
| 424.790 | -76.85 | -77.15 | 4.05 | -3.76 | -13.00 | -63.85 |
| 550.890 | -70.39 | -70.68 | 4.57 | -4.28 | -13.00 | -57.39 |
| 1633.000 | -43.65 | -45.63 | 9.40 | -7.42 | -13.00 | -30.65 |
| 2449.500 | -47.00 | -48.23 | 10.40 | -9.18 | -13.00 | -34.00 |

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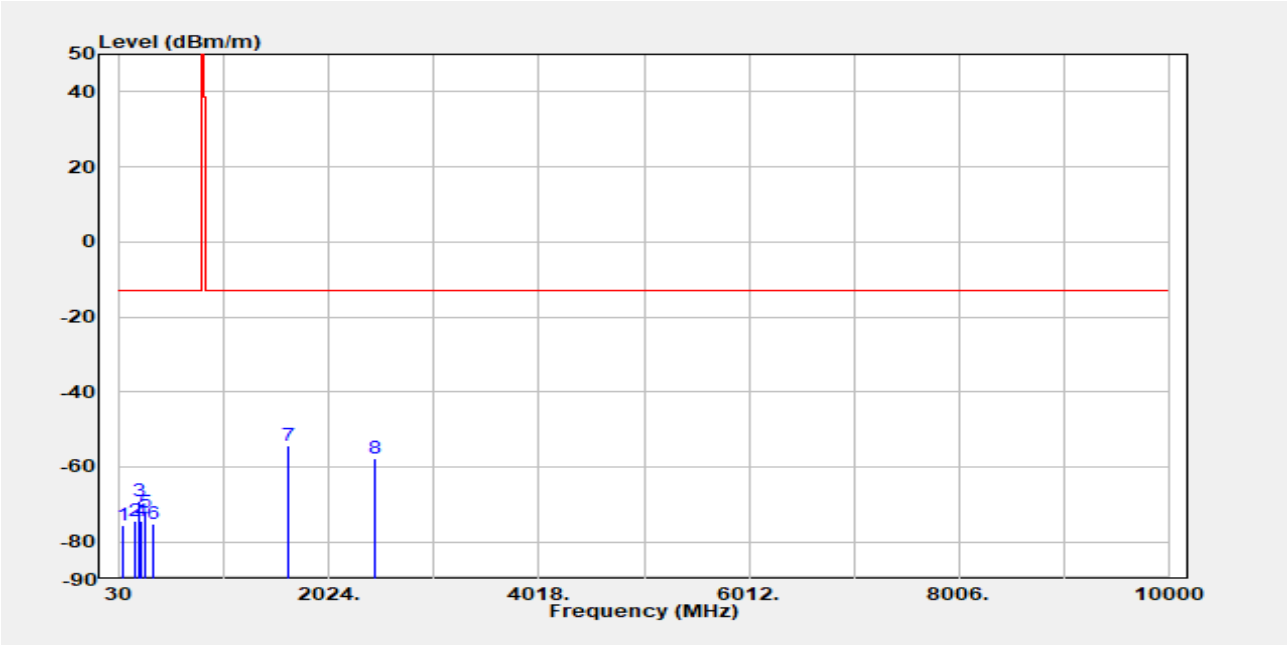
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26(Part90S) | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :816.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.65 | -65.57 | -8.61 | -1.46 | -13.00 | -62.65 |
| 167.740 | -74.63 | -71.90 | -0.35 | -2.37 | -13.00 | -61.63 |
| 216.240 | -69.23 | -71.13 | 4.58 | -2.69 | -13.00 | -56.23 |
| 231.760 | -74.34 | -76.02 | 4.46 | -2.78 | -13.00 | -61.34 |
| 263.770 | -72.15 | -73.33 | 4.15 | -2.98 | -13.00 | -59.15 |
| 344.280 | -75.15 | -75.80 | 4.04 | -3.39 | -13.00 | -62.15 |
| 1633.000 | -54.27 | -56.25 | 9.40 | -7.42 | -13.00 | -41.27 |
| 2449.500 | -57.87 | -59.09 | 10.40 | -9.18 | -13.00 | -44.87 |

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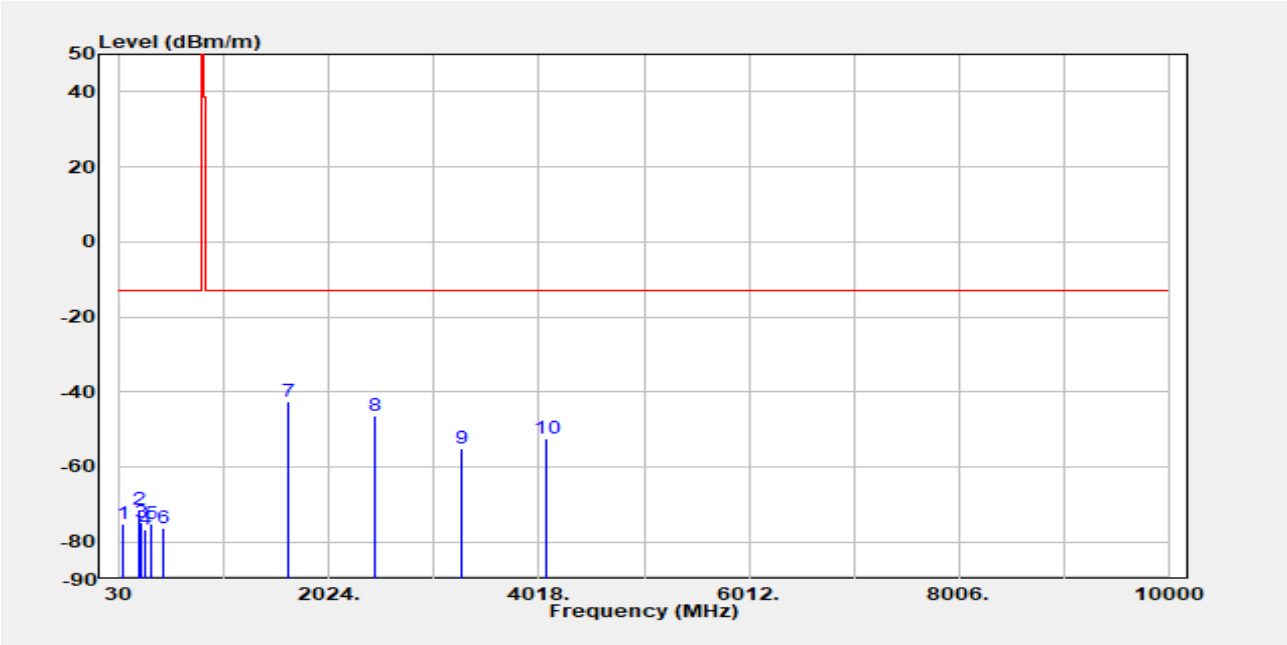
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26(Part90S) | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :819 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.09 | -65.02 | -8.61 | -1.46 | -13.00 | -62.09 |
| 216.240 | -71.53 | -73.42 | 4.58 | -2.69 | -13.00 | -58.53 |
| 233.700 | -74.85 | -76.24 | 4.18 | -2.79 | -13.00 | -61.85 |
| 279.290 | -76.73 | -77.38 | 3.71 | -3.06 | -13.00 | -63.73 |
| 328.760 | -75.33 | -75.88 | 3.87 | -3.31 | -13.00 | -62.33 |
| 450.010 | -76.22 | -76.09 | 3.74 | -3.87 | -13.00 | -63.22 |
| 1638.000 | -42.56 | -44.53 | 9.40 | -7.43 | -13.00 | -29.56 |
| 2457.000 | -46.43 | -47.71 | 10.47 | -9.19 | -13.00 | -33.43 |
| 3276.000 | -55.01 | -56.45 | 12.11 | -10.67 | -13.00 | -42.01 |
| 4095.000 | -52.43 | -53.07 | 12.60 | -11.96 | -13.00 | -39.43 |

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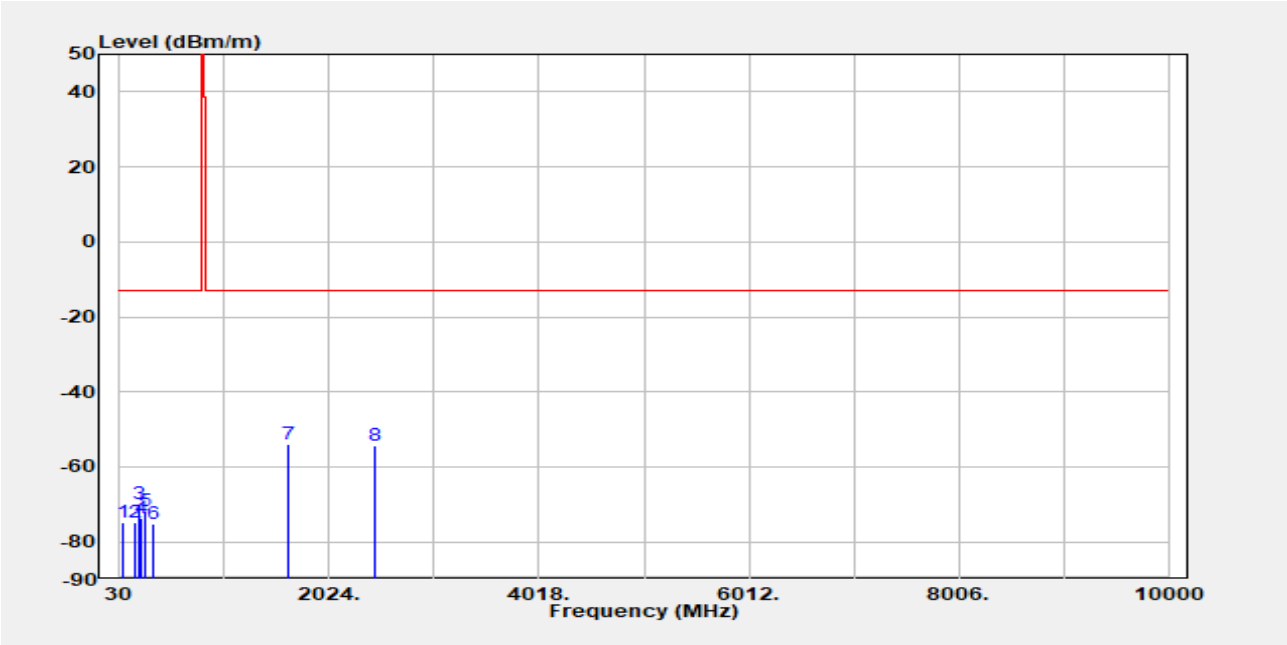
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26(Part90S) | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :819 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.78 | -64.71 | -8.61 | -1.46 | -13.00 | -61.78 |
| 167.740 | -74.84 | -72.11 | -0.35 | -2.37 | -13.00 | -61.84 |
| 216.240 | -69.85 | -71.74 | 4.58 | -2.69 | -13.00 | -56.85 |
| 232.730 | -73.55 | -75.08 | 4.32 | -2.79 | -13.00 | -60.55 |
| 263.770 | -71.95 | -73.12 | 4.15 | -2.98 | -13.00 | -58.95 |
| 348.160 | -75.29 | -76.00 | 4.12 | -3.40 | -13.00 | -62.29 |
| 1638.000 | -54.13 | -56.10 | 9.40 | -7.43 | -13.00 | -41.13 |
| 2457.000 | -54.35 | -55.63 | 10.47 | -9.19 | -13.00 | -41.35 |

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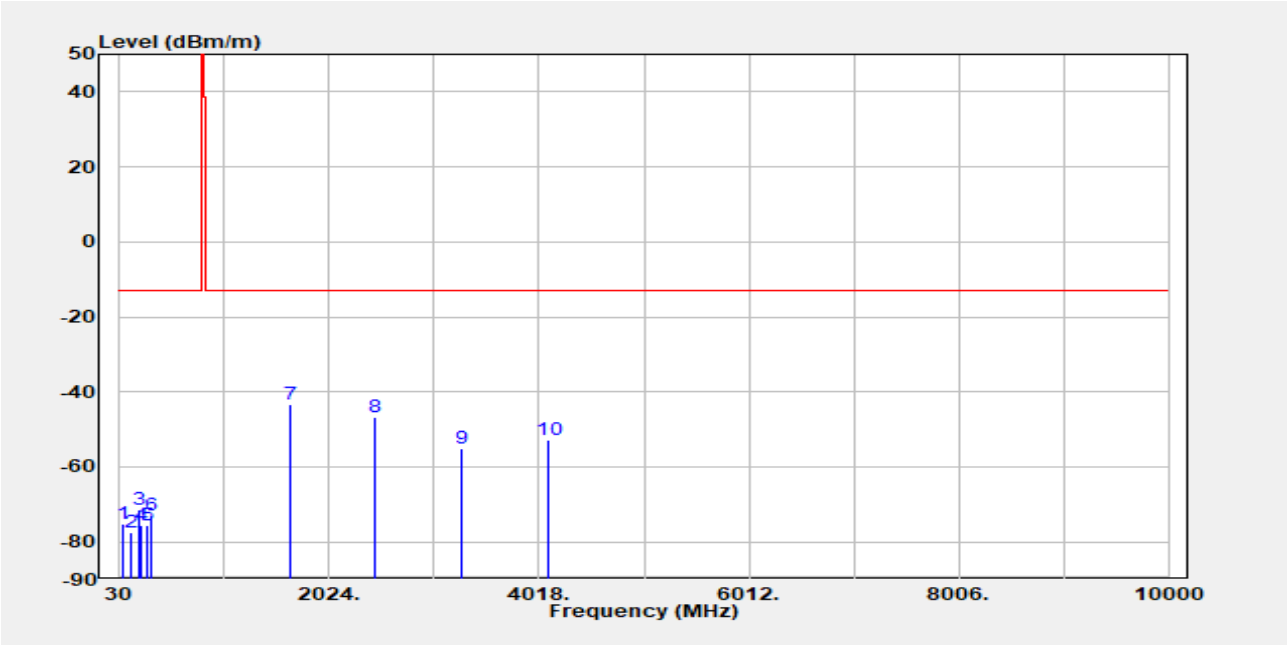
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26(Part90S) | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :821.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.30 | -65.22 | -8.61 | -1.46 | -13.00 | -62.30 |
| 132.820 | -77.62 | -73.86 | -1.65 | -2.11 | -13.00 | -64.62 |
| 216.240 | -71.31 | -73.20 | 4.58 | -2.69 | -13.00 | -58.31 |
| 230.790 | -75.41 | -77.23 | 4.60 | -2.77 | -13.00 | -62.41 |
| 289.960 | -75.44 | -76.06 | 3.73 | -3.11 | -13.00 | -62.44 |
| 329.730 | -72.78 | -73.31 | 3.85 | -3.32 | -13.00 | -59.78 |
| 1643.000 | -43.18 | -45.16 | 9.43 | -7.44 | -13.00 | -30.18 |
| 2464.500 | -46.68 | -48.02 | 10.55 | -9.21 | -13.00 | -33.68 |
| 3286.000 | -55.02 | -56.52 | 12.19 | -10.68 | -13.00 | -42.02 |
| 4107.500 | -52.95 | -53.55 | 12.59 | -11.98 | -13.00 | -39.95 |

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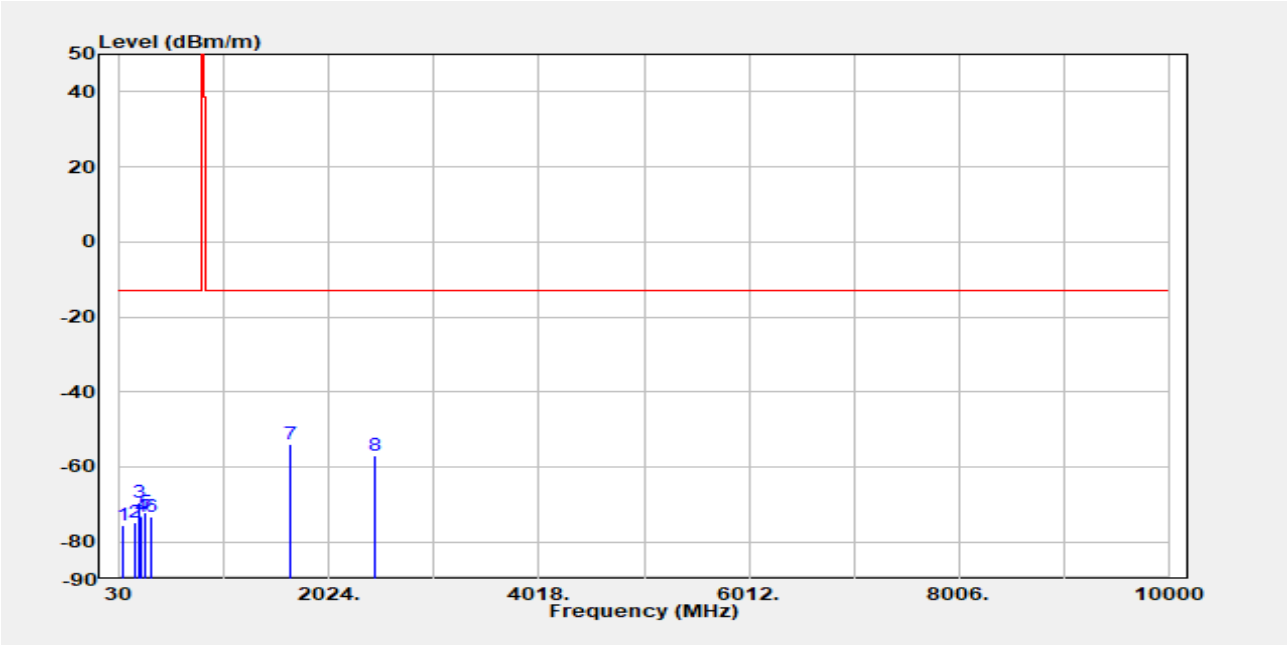
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B26(Part90S) | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :821.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.63 | -65.55 | -8.61 | -1.46 | -13.00 | -62.63 |
| 167.740 | -74.74 | -72.01 | -0.35 | -2.37 | -13.00 | -61.74 |
| 216.240 | -69.55 | -71.45 | 4.58 | -2.69 | -13.00 | -56.55 |
| 231.760 | -73.30 | -74.98 | 4.46 | -2.78 | -13.00 | -60.30 |
| 263.770 | -72.35 | -73.52 | 4.15 | -2.98 | -13.00 | -59.35 |
| 328.760 | -73.34 | -73.89 | 3.87 | -3.31 | -13.00 | -60.34 |
| 1643.000 | -54.08 | -56.07 | 9.43 | -7.44 | -13.00 | -41.08 |
| 2464.500 | -57.16 | -58.50 | 10.55 | -9.21 | -13.00 | -44.16 |

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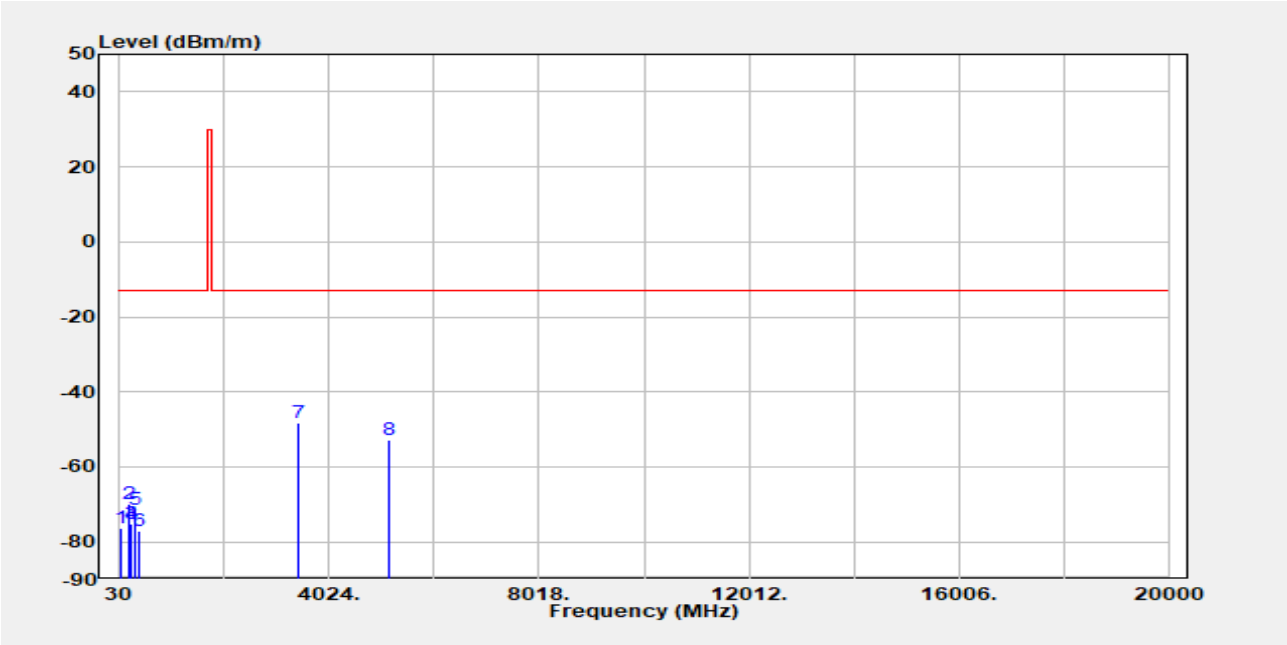
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B66 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1720 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 52.310 | -76.36 | -63.45 | -11.58 | -1.33 | -13.00 | -63.36 |
| 216.240 | -69.72 | -71.62 | 4.58 | -2.69 | -13.00 | -56.72 |
| 232.730 | -75.27 | -76.81 | 4.32 | -2.79 | -13.00 | -62.27 |
| 263.770 | -75.22 | -76.40 | 4.15 | -2.98 | -13.00 | -62.22 |
| 327.790 | -71.24 | -71.81 | 3.88 | -3.31 | -13.00 | -58.24 |
| 395.690 | -77.03 | -77.31 | 3.91 | -3.63 | -13.00 | -64.03 |
| 3440.000 | -48.20 | -49.86 | 12.60 | -10.93 | -13.00 | -35.20 |
| 5160.000 | -52.71 | -51.63 | 12.44 | -13.52 | -13.00 | -39.71 |

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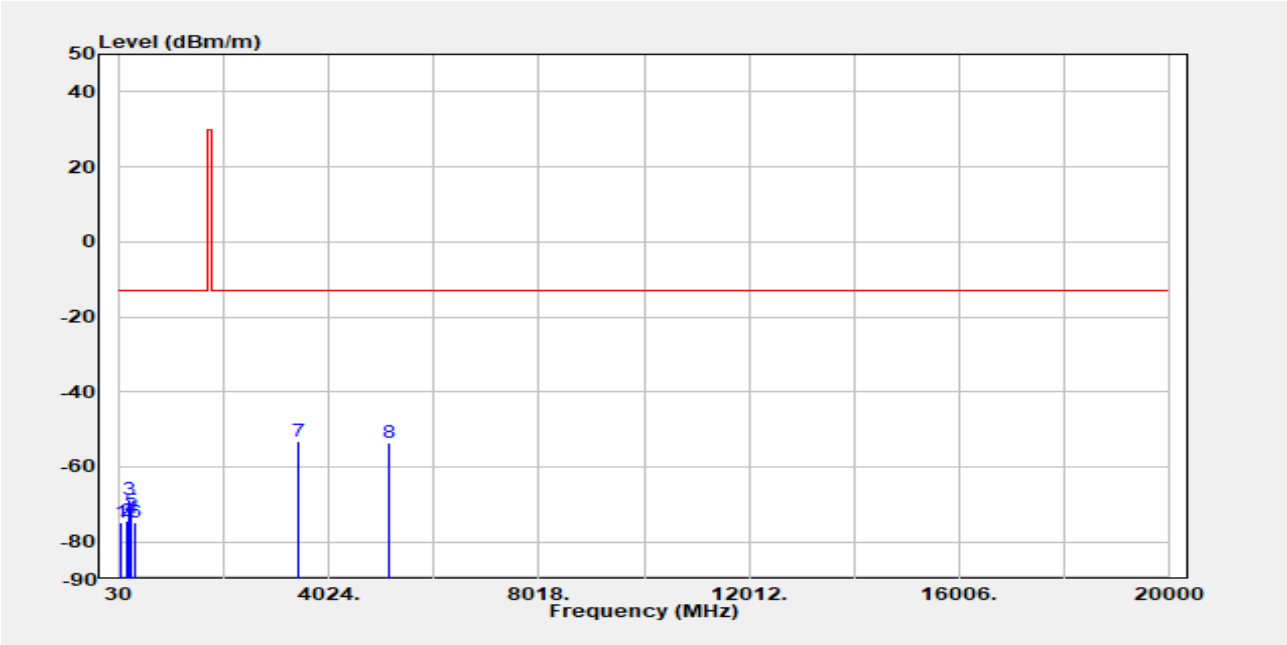
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B66 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1720 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -74.70 | -64.62 | -8.61 | -1.46 | -13.00 | -61.70 |
| 167.740 | -74.46 | -71.74 | -0.35 | -2.37 | -13.00 | -61.46 |
| 216.240 | -68.93 | -70.82 | 4.58 | -2.69 | -13.00 | -55.93 |
| 233.700 | -73.78 | -75.17 | 4.18 | -2.79 | -13.00 | -60.78 |
| 263.770 | -71.76 | -72.93 | 4.15 | -2.98 | -13.00 | -58.76 |
| 329.730 | -74.70 | -75.23 | 3.85 | -3.32 | -13.00 | -61.70 |
| 3440.000 | -53.37 | -55.03 | 12.60 | -10.93 | -13.00 | -40.37 |
| 5160.000 | -53.48 | -52.39 | 12.44 | -13.52 | -13.00 | -40.48 |

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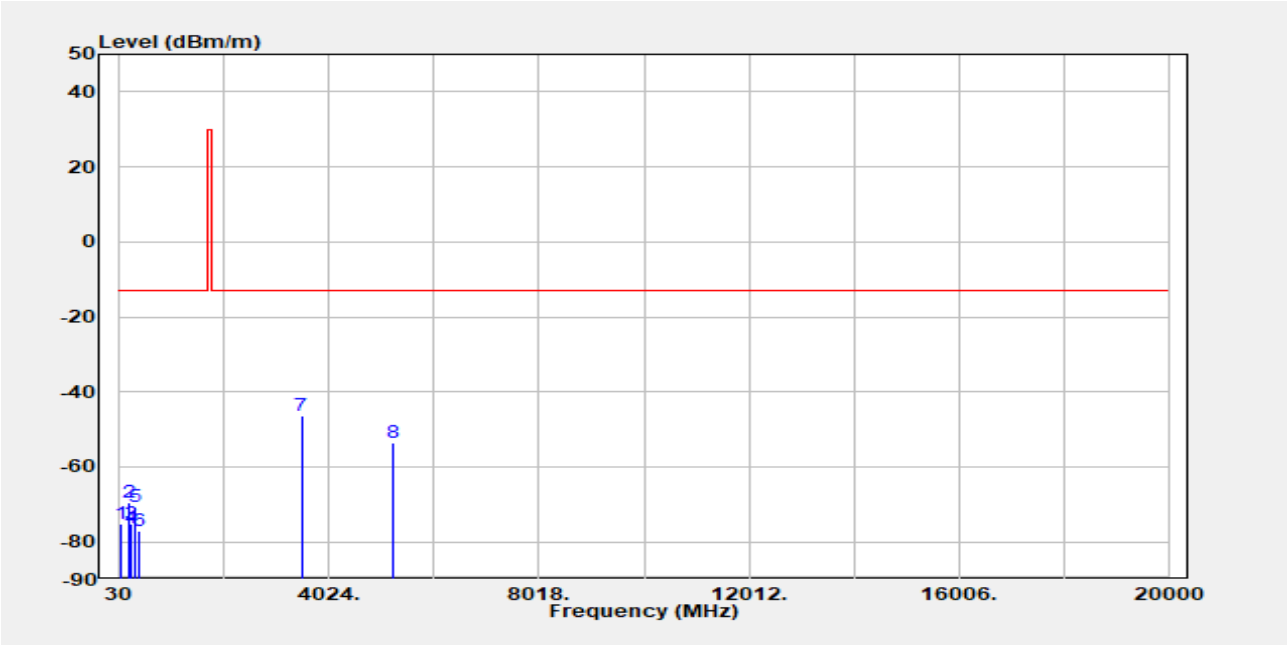
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B66 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1745 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.17 | -65.10 | -8.61 | -1.46 | -13.00 | -62.17 |
| 216.240 | -69.62 | -71.51 | 4.58 | -2.69 | -13.00 | -56.62 |
| 231.760 | -75.13 | -76.81 | 4.46 | -2.78 | -13.00 | -62.13 |
| 263.770 | -76.31 | -77.49 | 4.15 | -2.98 | -13.00 | -63.31 |
| 329.730 | -70.60 | -71.13 | 3.85 | -3.32 | -13.00 | -57.60 |
| 409.270 | -77.21 | -77.55 | 4.02 | -3.69 | -13.00 | -64.21 |
| 3490.000 | -46.55 | -47.98 | 12.44 | -11.01 | -13.00 | -33.55 |
| 5235.000 | -53.51 | -52.69 | 12.81 | -13.63 | -13.00 | -40.51 |

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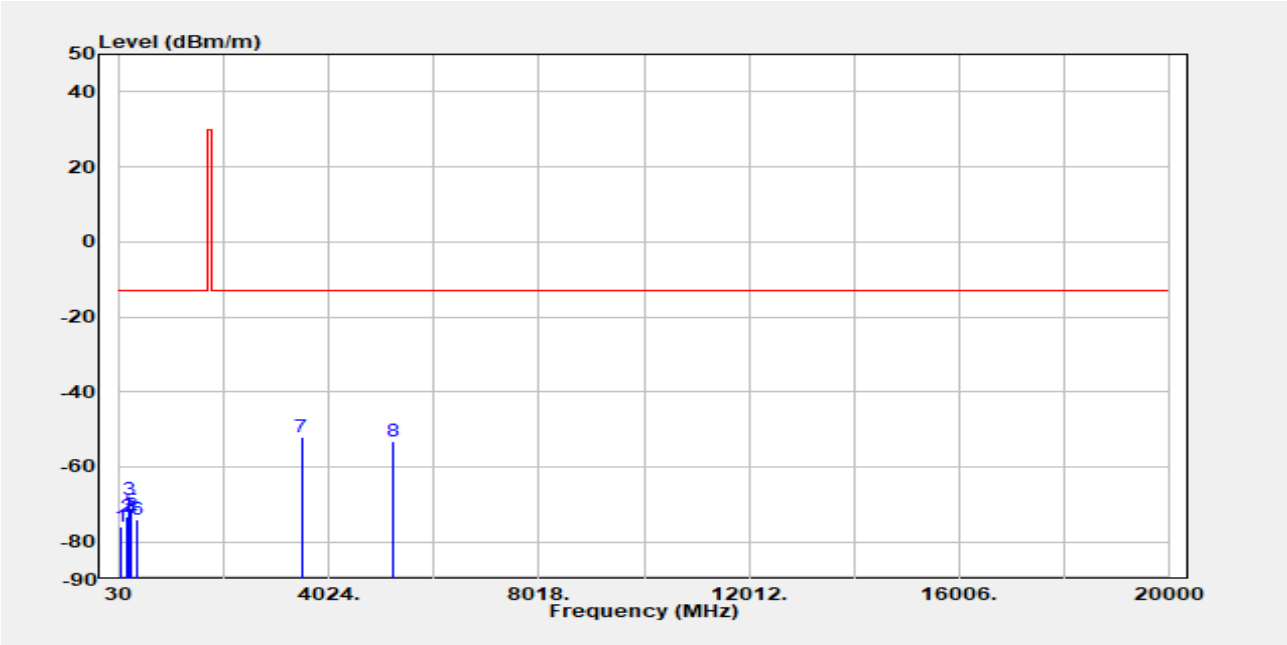
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B66 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1745 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -76.08 | -66.01 | -8.61 | -1.46 | -13.00 | -63.08 |
| 167.740 | -73.30 | -70.57 | -0.35 | -2.37 | -13.00 | -60.30 |
| 216.240 | -68.67 | -70.56 | 4.58 | -2.69 | -13.00 | -55.67 |
| 233.700 | -73.87 | -75.26 | 4.18 | -2.79 | -13.00 | -60.87 |
| 263.770 | -71.77 | -72.94 | 4.15 | -2.98 | -13.00 | -58.77 |
| 345.250 | -74.01 | -74.67 | 4.05 | -3.39 | -13.00 | -61.01 |
| 3490.000 | -52.00 | -53.43 | 12.44 | -11.01 | -13.00 | -39.00 |
| 5235.000 | -53.13 | -52.31 | 12.81 | -13.63 | -13.00 | -40.13 |

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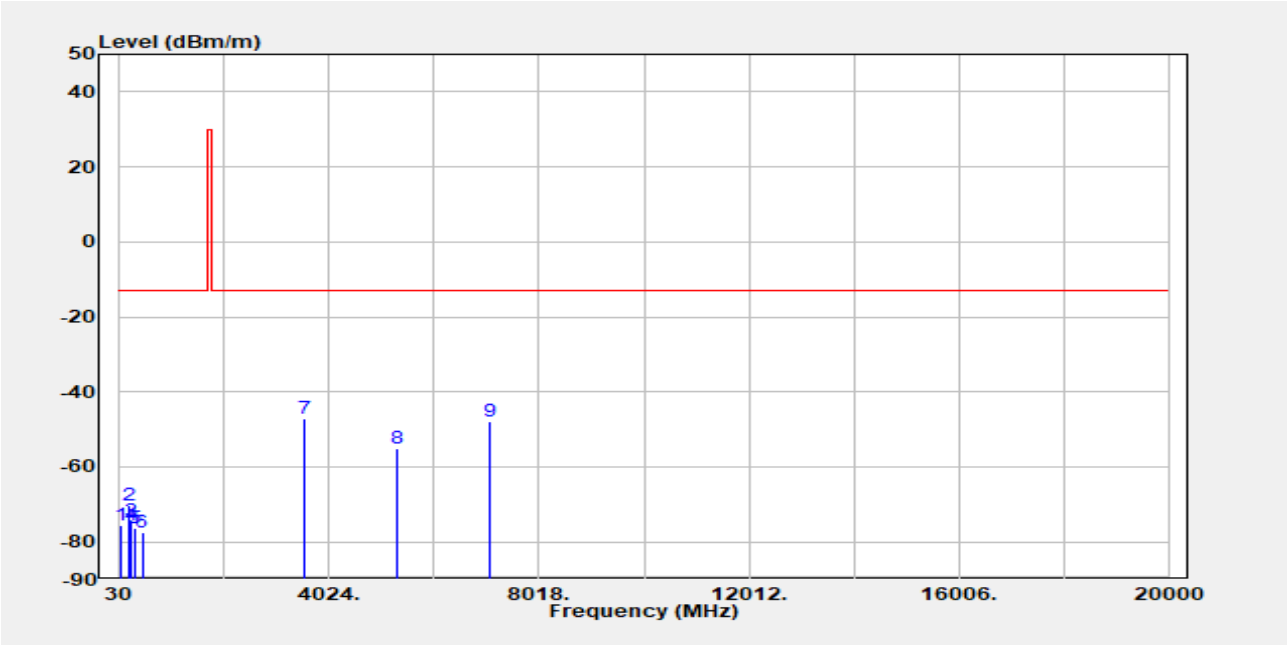
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B66 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :1770 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 63.950 | -75.63 | -65.56 | -8.61 | -1.46 | -13.00 | -62.63 |
| 216.240 | -70.10 | -71.99 | 4.58 | -2.69 | -13.00 | -57.10 |
| 233.700 | -74.62 | -76.01 | 4.18 | -2.79 | -13.00 | -61.62 |
| 263.770 | -75.42 | -76.59 | 4.15 | -2.98 | -13.00 | -62.42 |
| 332.640 | -76.44 | -76.97 | 3.87 | -3.33 | -13.00 | -63.44 |
| 456.800 | -77.62 | -77.56 | 3.84 | -3.90 | -13.00 | -64.62 |
| 3540.000 | -47.10 | -48.25 | 12.24 | -11.09 | -13.00 | -34.10 |
| 5310.000 | -55.17 | -54.46 | 13.02 | -13.73 | -13.00 | -42.17 |
| 7080.000 | -47.77 | -42.88 | 11.08 | -15.97 | -13.00 | -34.77 |

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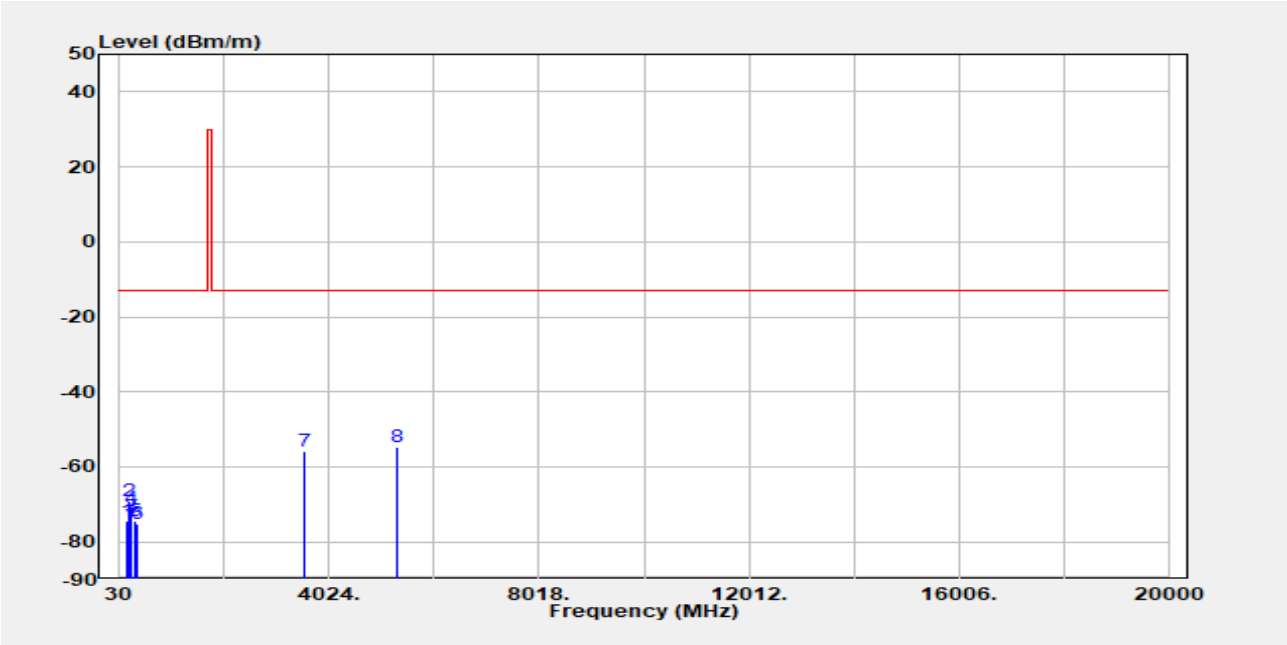
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B66 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :1770 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 167.740 | -74.32 | -71.59 | -0.35 | -2.37 | -13.00 | -61.32 |
| 216.240 | -69.21 | -71.10 | 4.58 | -2.69 | -13.00 | -56.21 |
| 233.700 | -73.46 | -74.86 | 4.18 | -2.79 | -13.00 | -60.46 |
| 263.770 | -71.02 | -72.19 | 4.15 | -2.98 | -13.00 | -58.02 |
| 328.760 | -74.51 | -75.06 | 3.87 | -3.31 | -13.00 | -61.51 |
| 378.230 | -75.04 | -75.50 | 4.01 | -3.55 | -13.00 | -62.04 |
| 3540.000 | -55.95 | -57.10 | 12.24 | -11.09 | -13.00 | -42.95 |
| 5310.000 | -54.80 | -54.09 | 13.02 | -13.73 | -13.00 | -41.80 |

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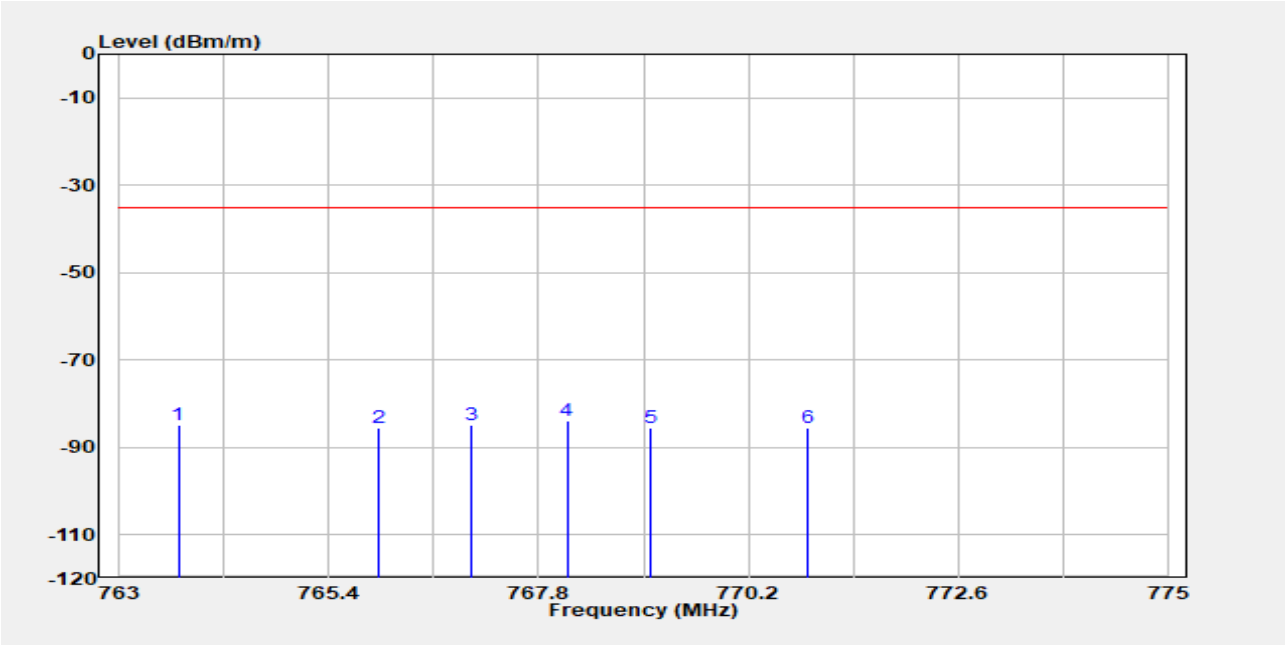
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :779.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 763.672 | -84.78 | -83.22 | 3.46 | -5.02 | -35.00 | -49.78 |
| 765.964 | -85.51 | -83.93 | 3.46 | -5.03 | -35.00 | -50.51 |
| 767.032 | -84.98 | -83.41 | 3.47 | -5.04 | -35.00 | -49.98 |
| 768.124 | -83.86 | -82.31 | 3.49 | -5.04 | -35.00 | -48.86 |
| 769.084 | -85.53 | -83.98 | 3.50 | -5.05 | -35.00 | -50.53 |
| 770.884 | -85.54 | -84.01 | 3.52 | -5.05 | -35.00 | -50.54 |

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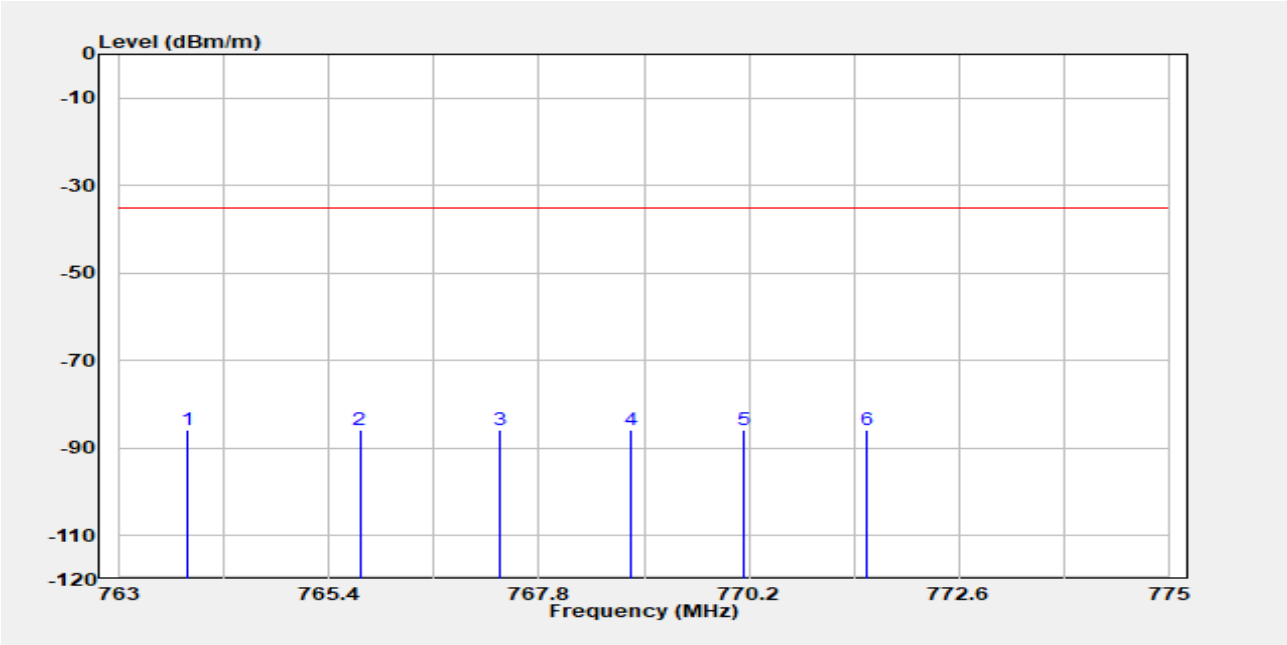
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :779.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 763.780 | -85.89 | -84.33 | 3.46 | -5.03 | -35.00 | -50.89 |
| 765.748 | -85.87 | -84.30 | 3.46 | -5.03 | -35.00 | -50.87 |
| 767.344 | -85.84 | -84.28 | 3.48 | -5.04 | -35.00 | -50.84 |
| 768.856 | -85.90 | -84.35 | 3.50 | -5.05 | -35.00 | -50.90 |
| 770.140 | -85.73 | -84.20 | 3.51 | -5.05 | -35.00 | -50.73 |
| 771.544 | -85.99 | -84.46 | 3.53 | -5.05 | -35.00 | -50.99 |

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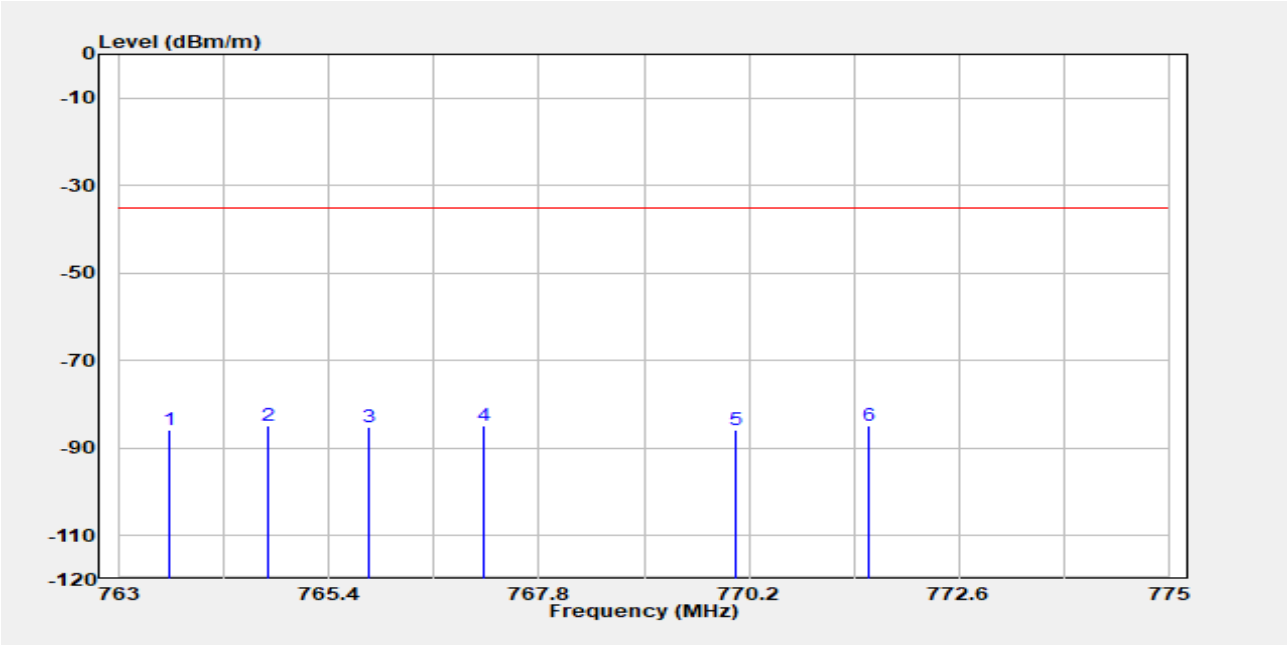
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :782 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 763.564 | -85.89 | -84.33 | 3.46 | -5.02 | -35.00 | -50.89 |
| 764.692 | -84.98 | -83.41 | 3.45 | -5.03 | -35.00 | -49.98 |
| 765.844 | -85.34 | -83.76 | 3.46 | -5.03 | -35.00 | -50.34 |
| 767.164 | -84.92 | -83.36 | 3.48 | -5.04 | -35.00 | -49.92 |
| 770.056 | -85.91 | -84.37 | 3.51 | -5.05 | -35.00 | -50.91 |
| 771.580 | -84.99 | -83.46 | 3.53 | -5.05 | -35.00 | -49.99 |

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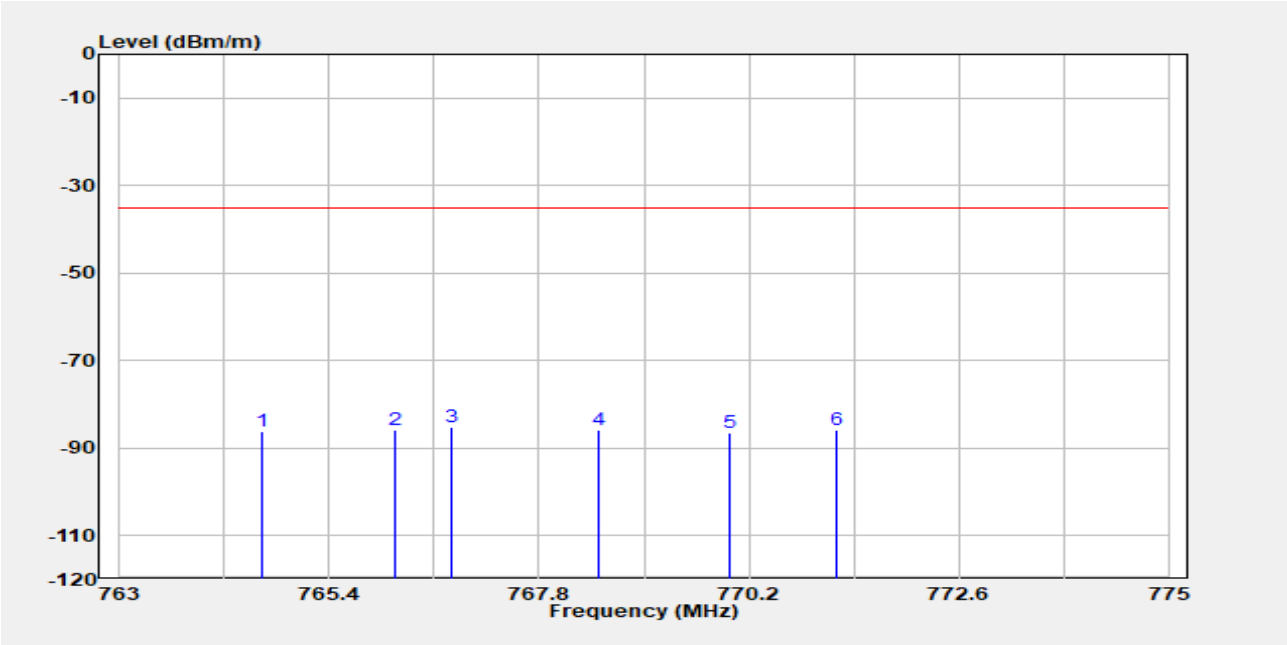
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :782 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 764.632 | -86.03 | -84.45 | 3.45 | -5.03 | -35.00 | -51.03 |
| 766.156 | -85.74 | -84.17 | 3.46 | -5.03 | -35.00 | -50.74 |
| 766.804 | -85.18 | -83.61 | 3.47 | -5.04 | -35.00 | -50.18 |
| 768.484 | -86.00 | -84.44 | 3.49 | -5.04 | -35.00 | -51.00 |
| 769.984 | -86.58 | -85.04 | 3.51 | -5.05 | -35.00 | -51.58 |
| 771.196 | -85.87 | -84.34 | 3.52 | -5.05 | -35.00 | -50.87 |

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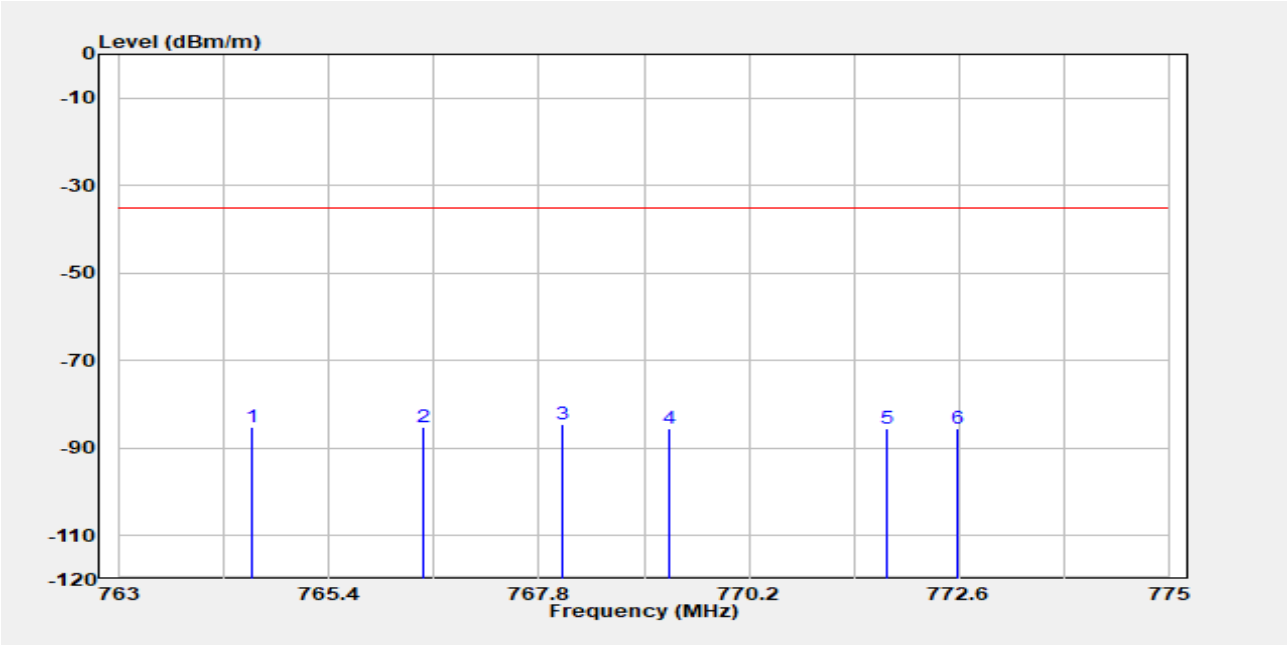
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :784.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 764.524 | -85.27 | -83.70 | 3.45 | -5.03 | -35.00 | -50.27 |
| 766.468 | -85.04 | -83.47 | 3.47 | -5.04 | -35.00 | -50.04 |
| 768.076 | -84.64 | -83.09 | 3.49 | -5.04 | -35.00 | -49.64 |
| 769.288 | -85.65 | -84.10 | 3.50 | -5.05 | -35.00 | -50.65 |
| 771.784 | -85.68 | -84.15 | 3.53 | -5.06 | -35.00 | -50.68 |
| 772.588 | -85.41 | -83.90 | 3.54 | -5.06 | -35.00 | -50.41 |

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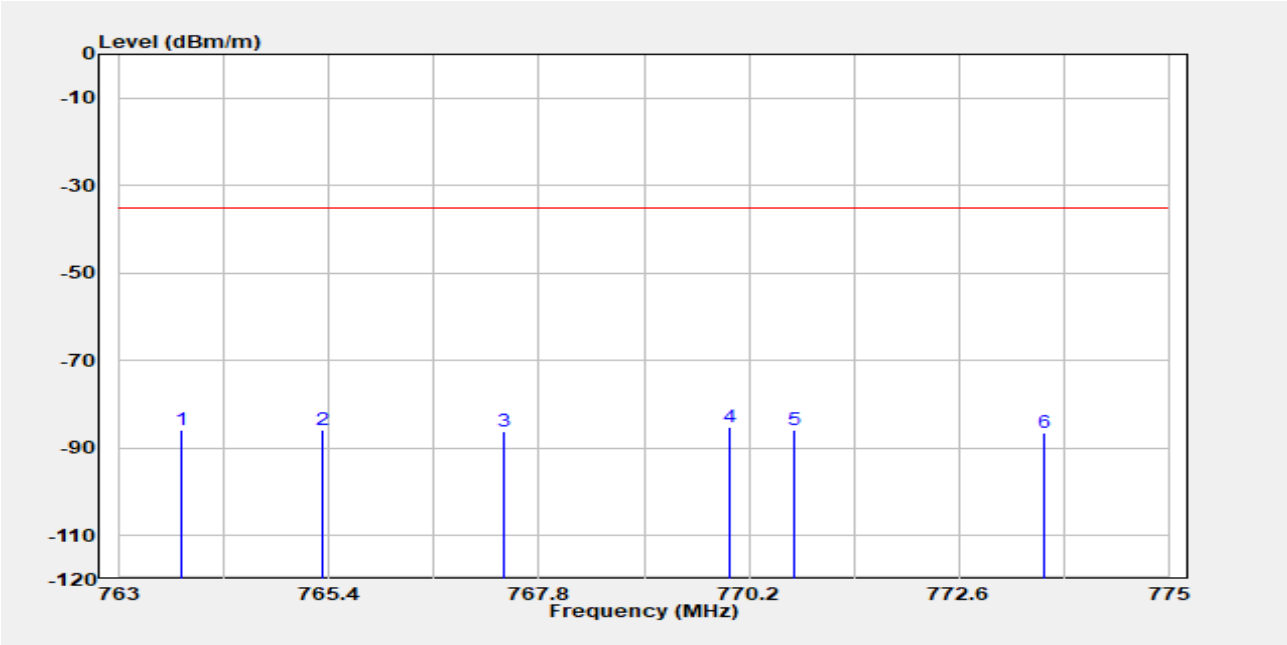
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :784.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 763.696 | -85.71 | -84.14 | 3.46 | -5.02 | -35.00 | -50.71 |
| 765.328 | -85.80 | -84.23 | 3.45 | -5.03 | -35.00 | -50.80 |
| 767.392 | -86.09 | -84.52 | 3.48 | -5.04 | -35.00 | -51.09 |
| 769.984 | -85.17 | -83.63 | 3.51 | -5.05 | -35.00 | -50.17 |
| 770.716 | -85.90 | -84.37 | 3.52 | -5.05 | -35.00 | -50.90 |
| 773.572 | -86.39 | -84.88 | 3.55 | -5.06 | -35.00 | -51.39 |

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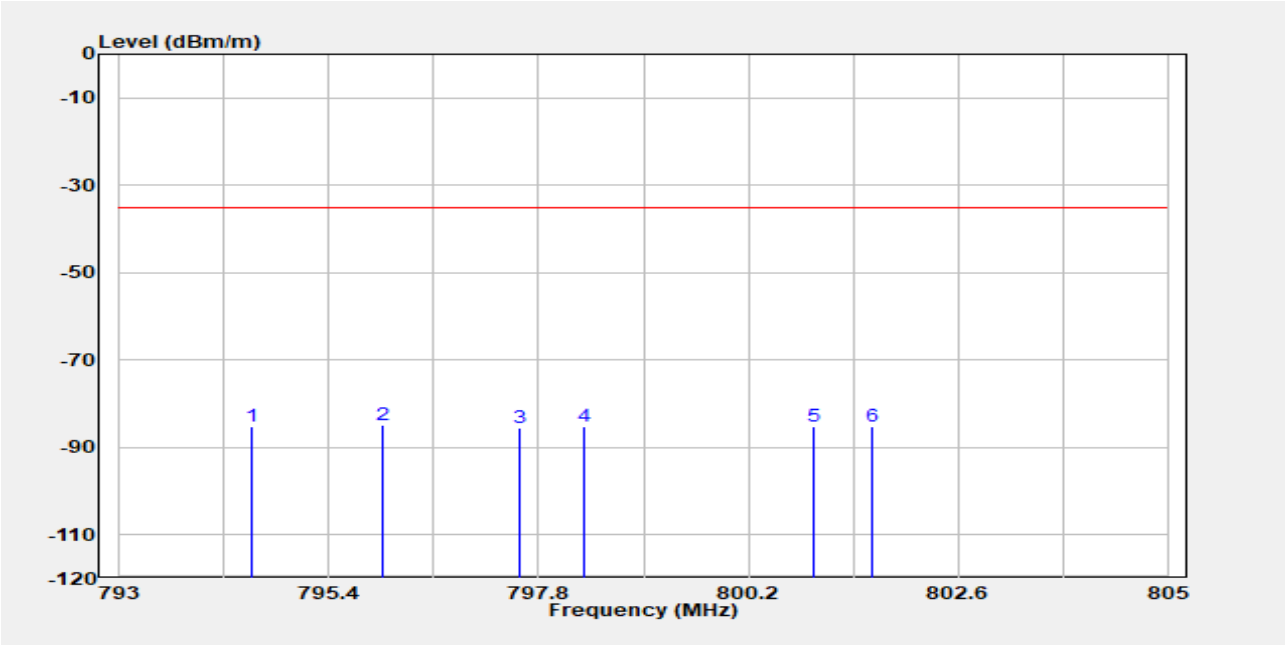
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :779.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 794.524 | -85.32 | -83.60 | 3.40 | -5.13 | -35.00 | -50.32 |
| 796.024 | -84.98 | -83.22 | 3.38 | -5.13 | -35.00 | -49.98 |
| 797.572 | -85.40 | -83.62 | 3.36 | -5.14 | -35.00 | -50.40 |
| 798.316 | -85.27 | -83.48 | 3.36 | -5.14 | -35.00 | -50.27 |
| 800.956 | -85.05 | -83.23 | 3.33 | -5.15 | -35.00 | -50.05 |
| 801.616 | -85.21 | -83.38 | 3.33 | -5.15 | -35.00 | -50.21 |

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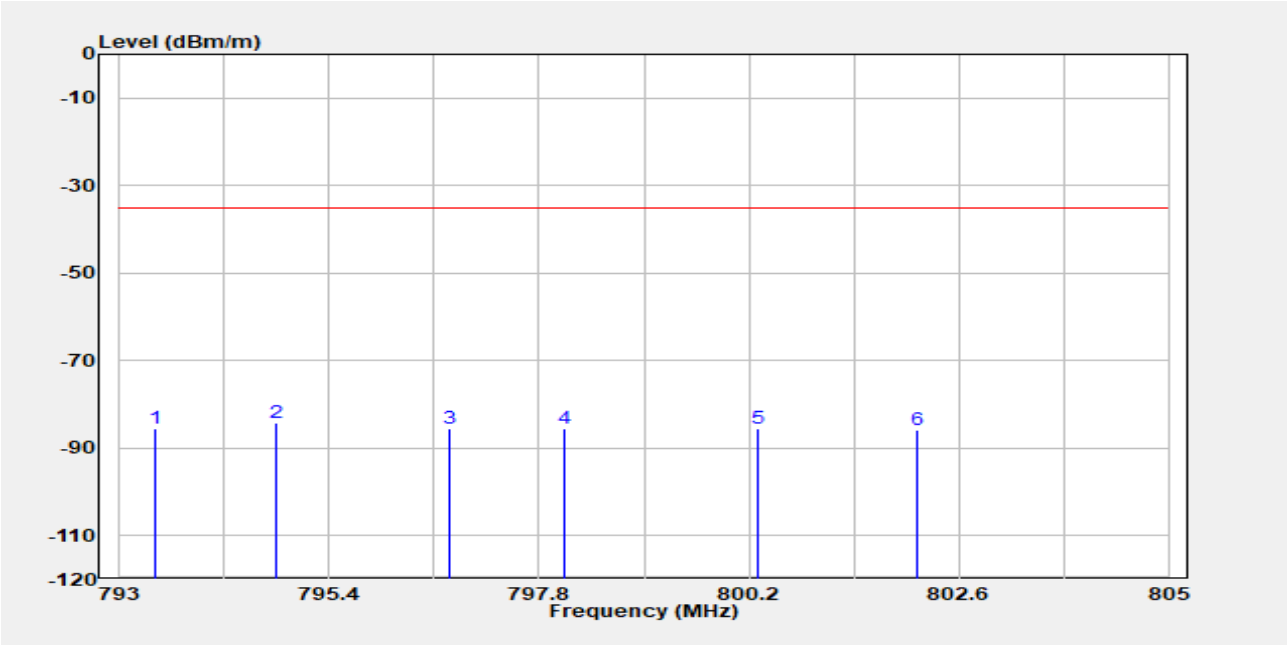
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :779.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 793.396 | -85.50 | -83.81 | 3.43 | -5.12 | -35.00 | -50.50 |
| 794.788 | -84.13 | -82.40 | 3.40 | -5.13 | -35.00 | -49.13 |
| 796.780 | -85.45 | -83.68 | 3.37 | -5.14 | -35.00 | -50.45 |
| 798.100 | -85.57 | -83.79 | 3.36 | -5.14 | -35.00 | -50.57 |
| 800.296 | -85.62 | -83.81 | 3.34 | -5.15 | -35.00 | -50.62 |
| 802.120 | -85.83 | -84.00 | 3.32 | -5.16 | -35.00 | -50.83 |

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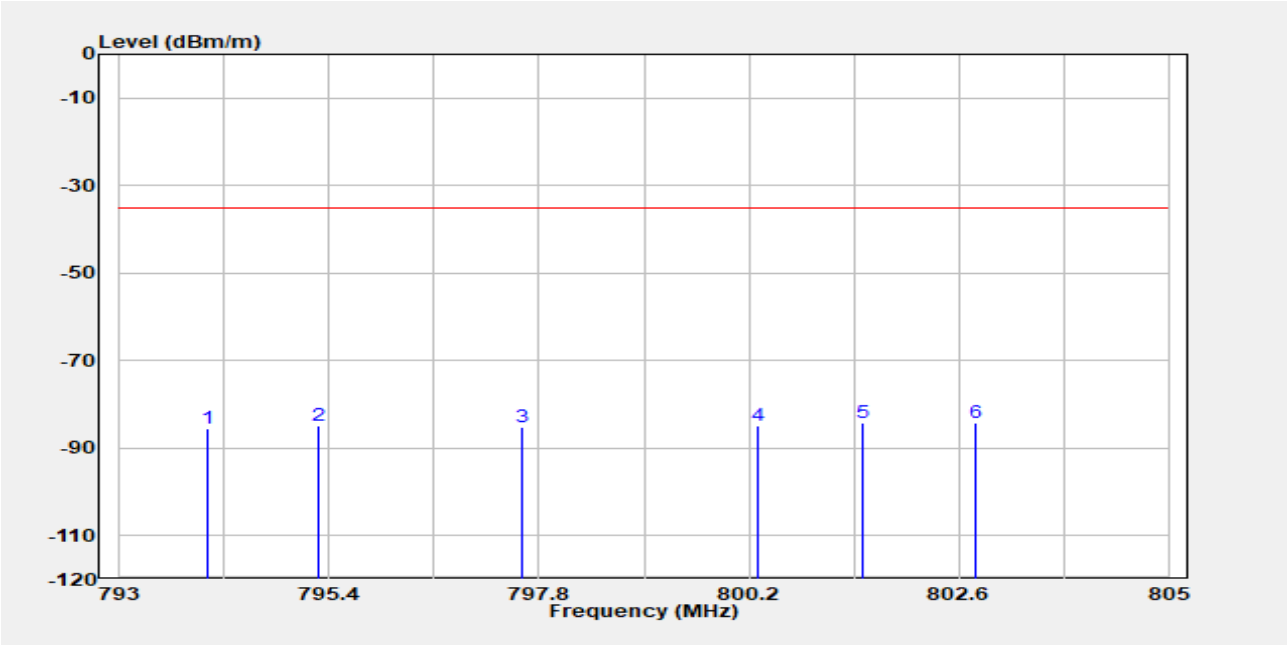
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :782 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 793.996 | -85.68 | -83.97 | 3.42 | -5.13 | -35.00 | -50.68 |
| 795.280 | -84.75 | -83.01 | 3.39 | -5.13 | -35.00 | -49.75 |
| 797.608 | -85.34 | -83.56 | 3.36 | -5.14 | -35.00 | -50.34 |
| 800.296 | -84.86 | -83.04 | 3.34 | -5.15 | -35.00 | -49.86 |
| 801.496 | -84.13 | -82.30 | 3.33 | -5.15 | -35.00 | -49.13 |
| 802.804 | -84.11 | -82.27 | 3.32 | -5.16 | -35.00 | -49.11 |

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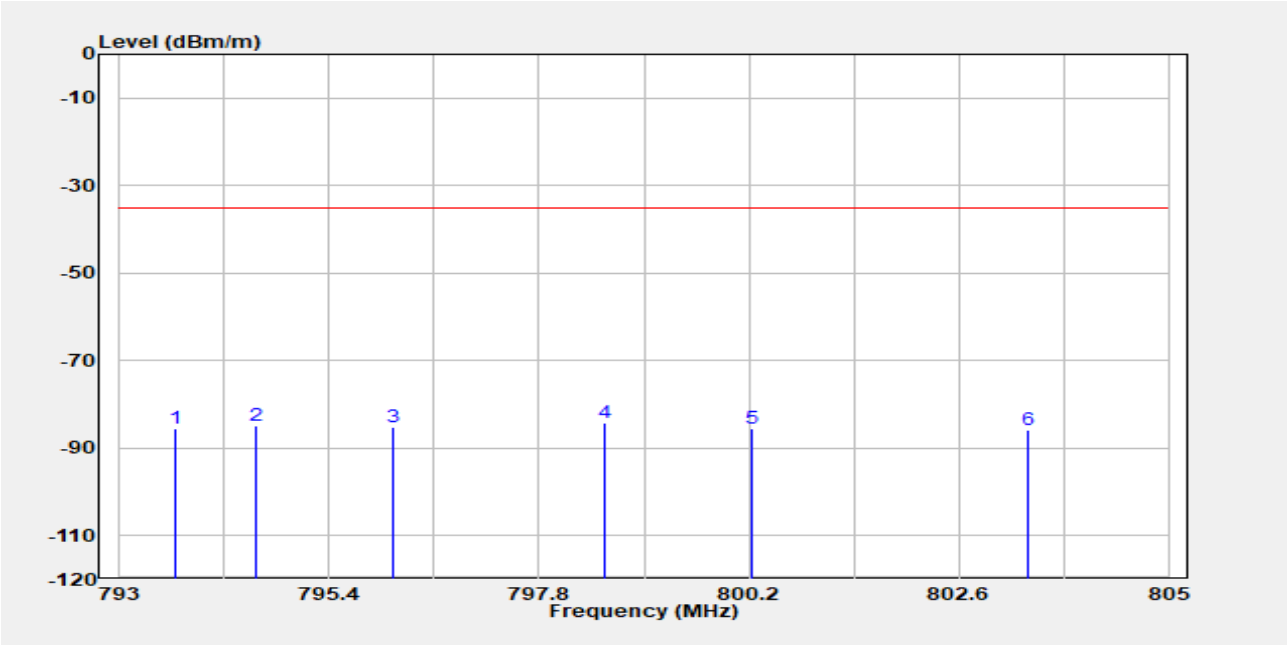
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :782 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 793.636 | -85.51 | -83.81 | 3.43 | -5.12 | -35.00 | -50.51 |
| 794.560 | -85.03 | -83.31 | 3.40 | -5.13 | -35.00 | -50.03 |
| 796.132 | -85.21 | -83.46 | 3.38 | -5.13 | -35.00 | -50.21 |
| 798.544 | -84.27 | -82.48 | 3.35 | -5.14 | -35.00 | -49.27 |
| 800.224 | -85.52 | -83.71 | 3.34 | -5.15 | -35.00 | -50.52 |
| 803.392 | -85.78 | -83.94 | 3.31 | -5.16 | -35.00 | -50.78 |

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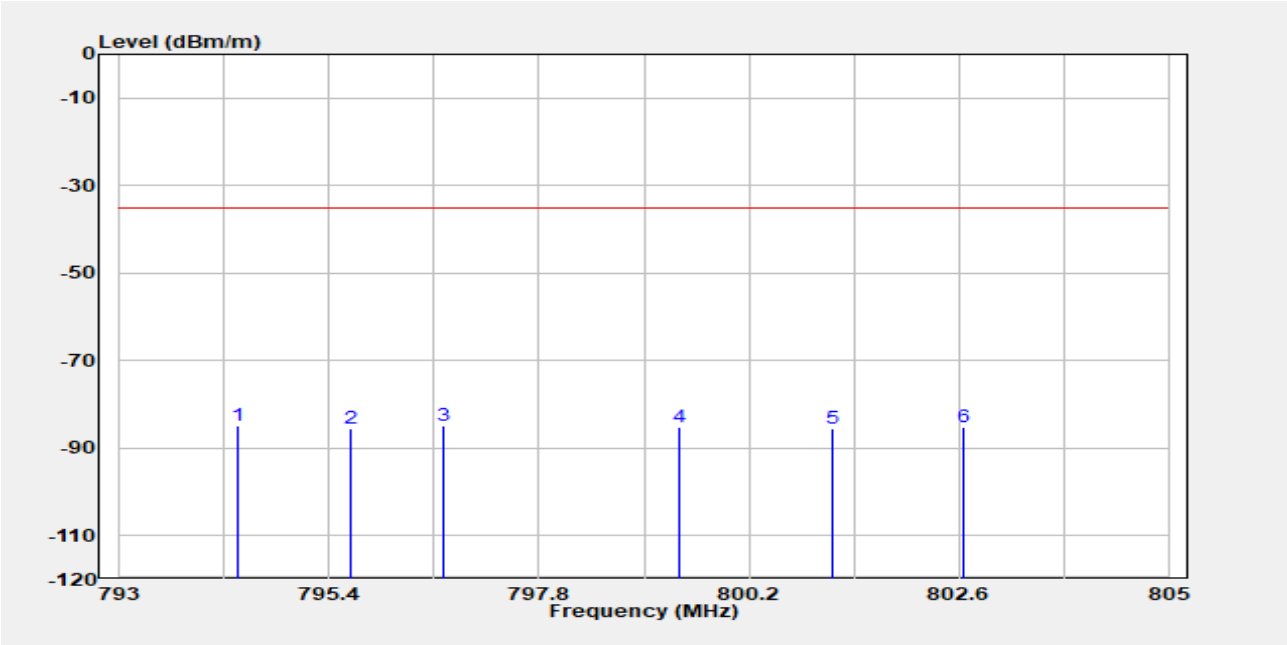
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :784.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 794.356 | -84.85 | -83.13 | 3.41 | -5.13 | -35.00 | -49.85 |
| 795.640 | -85.38 | -83.63 | 3.38 | -5.13 | -35.00 | -50.38 |
| 796.708 | -84.88 | -83.12 | 3.37 | -5.14 | -35.00 | -49.88 |
| 799.396 | -85.28 | -83.48 | 3.35 | -5.15 | -35.00 | -50.28 |
| 801.148 | -85.38 | -83.56 | 3.33 | -5.15 | -35.00 | -50.38 |
| 802.648 | -85.23 | -83.39 | 3.32 | -5.16 | -35.00 | -50.23 |

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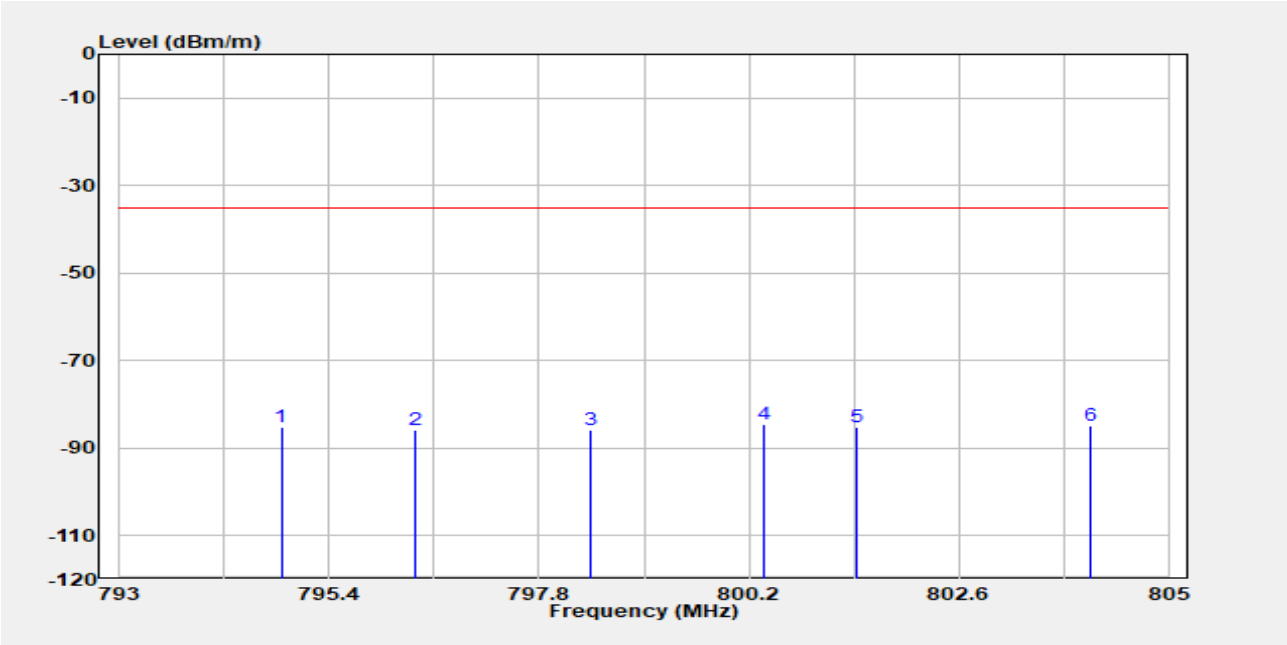
| | | | |
|---|---|---|---|
| Report Number | :TERF2408002531ER | Test Site | :SAC 3 |
| Operation Mode | :CAT-M1 B13 | Test Date | :2024-10-16 |
| Test Mode | :Tx | Temp./Humi. | :24.3℃/63% |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :784.5 MHz | Engineer | :Cooper Hsu |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|---|---|---|---|---|---|---|
| 794.848 | -85.26 | -83.53 | 3.39 | -5.13 | -35.00 | -50.26 |
| 796.384 | -85.76 | -84.00 | 3.38 | -5.14 | -35.00 | -50.76 |
| 798.388 | -85.69 | -83.91 | 3.36 | -5.14 | -35.00 | -50.69 |
| 800.368 | -84.42 | -82.61 | 3.34 | -5.15 | -35.00 | -49.42 |
| 801.424 | -85.27 | -83.45 | 3.33 | -5.15 | -35.00 | -50.27 |
| 804.100 | -84.90 | -83.04 | 3.31 | -5.16 | -35.00 | -49.90 |

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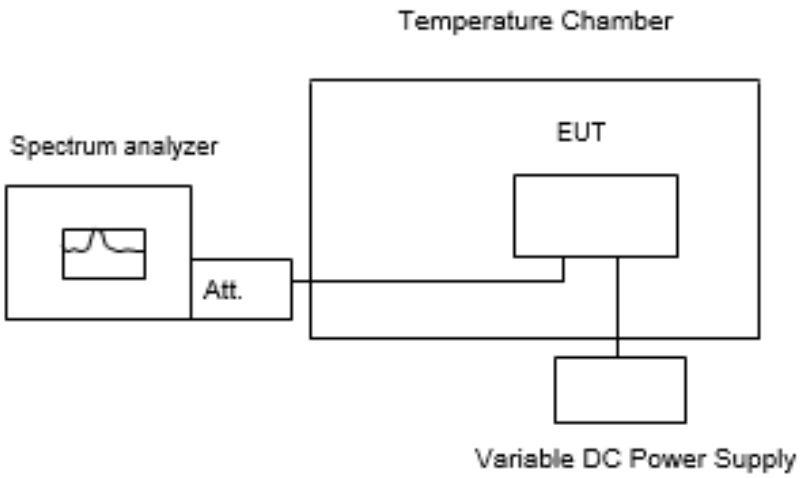
# 11 FREQUENCY STABILITY MEASUREMENT

## 11.1 Standard Applicable

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

## 11.2 Test Set-up




**Note:** Measurement setup for testing on Antenna connector

## 11.3 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℃. 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.

## 11.4 Measurement Result

*Note: DC Power Supply is rated 3.6V dc.*

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| Reference Freq.: | CAT-M1 B2 Mid Channel | 1880.0000 | MHz 10M QPSK CH 18900 | |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 1879.999983 | -0.0093 | +/- 2.5 ppm |
| 3.6 | 20 | 1879.999993 | -0.0036 | |
| 2.5 | 20 | 1880.000000 | -0.0002 | |
| 1.9 (End Point) | 20 | 1880.000004 | 0.0019 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 1879.999983 | -0.0091 | +/- 2.5 ppm |
| 3.6 | -20 | 1880.000006 | 0.0033 | |
| 3.6 | -10 | 1879.999980 | -0.0106 | |
| 3.6 | 0 | 1880.000020 | 0.0105 | |
| 3.6 | 10 | 1880.000018 | 0.0093 | |
| 3.6 | 20 | 1880.000013 | 0.0069 | |
| 3.6 | 30 | 1880.000004 | 0.0024 | |
| 3.6 | 40 | 1880.000007 | 0.0037 | |
| 3.6 | 50 | 1880.000002 | 0.0011 | |

| Reference Freq.: | CAT-M1 B4 Mid Channel | 1732.5000 | MHz 10M QPSK CH 20175 | |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 1732.499987 | -0.0074 | +/- 2.5 ppm |
| 3.6 | 20 | 1732.500015 | 0.0086 | |
| 2.5 | 20 | 1732.499990 | -0.0055 | |
| 1.9 (End Point) | 20 | 1732.500013 | 0.0076 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 1732.499981 | -0.0112 | +/- 2.5 ppm |
| 3.6 | -20 | 1732.499987 | -0.0073 | |
| 3.6 | -10 | 1732.499987 | -0.0074 | |
| 3.6 | 0 | 1732.499988 | -0.0071 | |
| 3.6 | 10 | 1732.499992 | -0.0048 | |
| 3.6 | 20 | 1732.499983 | -0.0099 | |
| 3.6 | 30 | 1732.500007 | 0.0042 | |
| 3.6 | 40 | 1732.500015 | 0.0084 | |
| 3.6 | 50 | 1732.499989 | -0.0064 | |

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| Reference Freq.: | CAT-M1 B5 Mid Channel | | 836.5000 | MHz 10M QPSK CH 20525 |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 836.499986 | -0.0167 | +/- 2.5 ppm |
| 3.6 | 20 | 836.500017 | 0.0203 | |
| 2.5 | 20 | 836.499990 | -0.0121 | |
| 1.9 (End Point) | 20 | 836.500002 | 0.0025 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 836.500000 | 0.0005 | +/- 2.5 ppm |
| 3.6 | -20 | 836.500018 | 0.0218 | |
| 3.6 | -10 | 836.499986 | -0.0171 | |
| 3.6 | 0 | 836.500018 | 0.0211 | |
| 3.6 | 10 | 836.500011 | 0.0134 | |
| 3.6 | 20 | 836.499987 | -0.0156 | |
| 3.6 | 30 | 836.499999 | -0.0014 | |
| 3.6 | 40 | 836.499993 | -0.0087 | |
| 3.6 | 50 | 836.500016 | 0.0188 | |

| Reference Freq.: | CAT-M1 B12 Mid Channel | | 707.5000 | MHz 10M QPSK CH 23095 |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 707.500015 | 0.0210 | +/- 2.5 ppm |
| 3.6 | 20 | 707.500005 | 0.0074 | |
| 2.5 | 20 | 707.499998 | -0.0034 | |
| 1.9 (End Point) | 20 | 707.499999 | -0.0020 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 707.499982 | -0.0260 | +/- 2.5 ppm |
| 3.6 | -20 | 707.499983 | -0.0245 | |
| 3.6 | -10 | 707.500009 | 0.0127 | |
| 3.6 | 0 | 707.499982 | -0.0260 | |
| 3.6 | 10 | 707.499994 | -0.0085 | |
| 3.6 | 20 | 707.499998 | -0.0034 | |
| 3.6 | 30 | 707.500014 | 0.0198 | |
| 3.6 | 40 | 707.500015 | 0.0216 | |
| 3.6 | 50 | 707.500017 | 0.0241 | |

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| Reference Freq.: | CAT-M1 B13 Mid Channel | | 782.0000 | MHz 10M QPSK CH 23230 |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 781.999990 | -0.0132 | +/- 2.5 ppm |
| 3.6 | 20 | 782.000005 | 0.0060 | |
| 2.5 | 20 | 781.999992 | -0.0107 | |
| 1.9 (End Point) | 20 | 782.000018 | 0.0228 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 782.000019 | 0.0237 | +/- 2.5 ppm |
| 3.6 | -20 | 782.000010 | 0.0124 | |
| 3.6 | -10 | 782.000007 | 0.0091 | |
| 3.6 | 0 | 782.000002 | 0.0023 | |
| 3.6 | 10 | 782.000000 | -0.0004 | |
| 3.6 | 20 | 781.999994 | -0.0072 | |
| 3.6 | 30 | 781.999994 | -0.0081 | |
| 3.6 | 40 | 781.999987 | -0.0170 | |
| 3.6 | 50 | 782.000015 | 0.0196 | |

| Reference Freq.: | CAT-M1 B25 Mid Channel | | 1882.5000 | MHz 10M QPSK CH 26365 |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | Delta (Hz) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 1882.499981 | -0.0102 | +/- 2.5 ppm |
| 3.6 | 20 | 1882.500003 | 0.0015 | |
| 2.5 | 20 | 1882.499995 | -0.0027 | |
| 1.9 (End Point) | 20 | 1882.500010 | 0.0054 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 1882.499992 | -0.0045 | +/- 2.5 ppm |
| 3.6 | -20 | 1882.500000 | 0.0002 | |
| 3.6 | -10 | 1882.499990 | -0.0051 | |
| 3.6 | 0 | 1882.500014 | 0.0072 | |
| 3.6 | 10 | 1882.499989 | -0.0057 | |
| 3.6 | 20 | 1882.500010 | 0.0053 | |
| 3.6 | 30 | 1882.499995 | -0.0025 | |
| 3.6 | 40 | 1882.500001 | 0.0008 | |
| 3.6 | 50 | 1882.499999 | -0.0003 | |

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| Reference Freq.: | Part 90 CAT-M1 B26 Mid Channel | 819.0000 | MHz 10M QPSK CH 26740 | |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)** | | | | |
| 4.6 | 20 | 819.000017 | 0.0203 | +/- 2.5 ppm |
| 3.6 | 20 | 818.999997 | -0.0036 | |
| 2.5 | 20 | 819.000004 | 0.0047 | |
| 1.9 (End Point) | 20 | 818.999986 | -0.0168 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 819.000010 | 0.0119 | +/- 2.5 ppm |
| 3.6 | -20 | 818.999984 | -0.0201 | |
| 3.6 | -10 | 819.000006 | 0.0068 | |
| 3.6 | 0 | 819.000012 | 0.0152 | |
| 3.6 | 10 | 818.999980 | -0.0243 | |
| 3.6 | 20 | 818.999982 | -0.0216 | |
| 3.6 | 30 | 819.000017 | 0.0208 | |
| 3.6 | 40 | 819.000017 | 0.0210 | |
| 3.6 | 50 | 818.999984 | -0.0193 | |

| Reference Freq.: | CAT-M1 B26 Mid Channel | 836.5000 | MHz 10M QPSK CH 26915 | |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 836.500019 | 0.0226 | +/- 2.5 ppm |
| 3.6 | 20 | 836.499995 | -0.0061 | |
| 2.5 | 20 | 836.500001 | 0.0018 | |
| 1.9 (End Point) | 20 | 836.499986 | -0.0162 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 836.499992 | -0.0094 | +/- 2.5 ppm |
| 3.6 | -20 | 836.499996 | -0.0046 | |
| 3.6 | -10 | 836.500017 | 0.0200 | |
| 3.6 | 0 | 836.499984 | -0.0188 | |
| 3.6 | 10 | 836.500008 | 0.0099 | |
| 3.6 | 20 | 836.499998 | -0.0028 | |
| 3.6 | 30 | 836.499998 | -0.0024 | |
| 3.6 | 40 | 836.500005 | 0.0063 | |
| 3.6 | 50 | 836.500004 | 0.0054 | |

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| Reference Freq.: | CAT-M1 B66 Mid Channel | | 1745.0000 | MHz 10M QPSK CH 132322 |
|---|---|---|---|---|
| Power Supply Vdc | Temp. (℃) | Freq. (MHz) | (ppm) | Limit |
| **Freq. ERROR vs. VOLTAGE** | | | | |
| 4.6 | 20 | 1744.999997 | -0.0019 | +/- 2.5 ppm |
| 3.6 | 20 | 1745.000000 | -0.0001 | |
| 2.5 | 20 | 1744.999993 | -0.0039 | |
| 1.9 (End Point) | 20 | 1745.000019 | 0.0106 | |
| **Freq. ERROR vs. Temp.** | | | | |
| 3.6 | -30 | 1744.999991 | -0.0051 | +/- 2.5 ppm |
| 3.6 | -20 | 1744.999994 | -0.0036 | |
| 3.6 | -10 | 1744.999998 | -0.0010 | |
| 3.6 | 0 | 1745.000003 | 0.0015 | |
| 3.6 | 10 | 1744.999985 | -0.0088 | |
| 3.6 | 20 | 1745.000000 | 0.0001 | |
| 3.6 | 30 | 1745.000000 | -0.0002 | |
| 3.6 | 40 | 1744.999986 | -0.0081 | |
| 3.6 | 50 | 1744.999982 | -0.0105 | |

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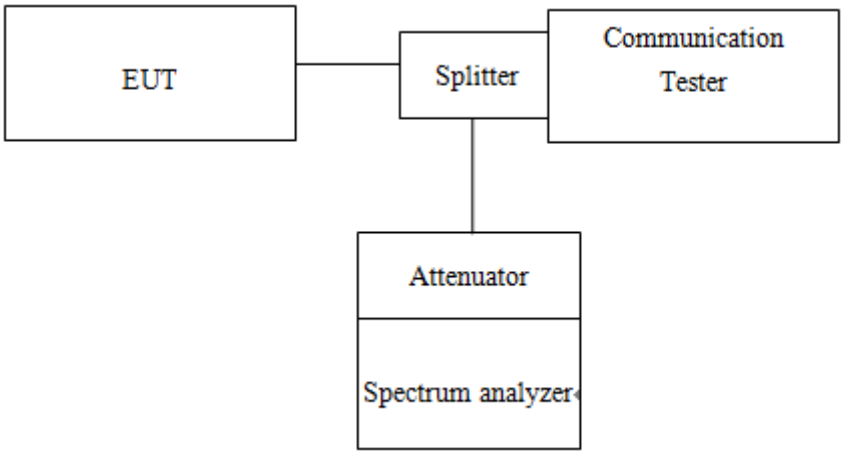
# 12 PEAK TO AVERAGE RATIO

## 12.1 Standard Applicable

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

## 12.2 Test SET-UP




## 12.3 Measurement Procedure

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

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## 12.4 Measurement Result

| CAT-M1 BAND 2 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1850.7 | 18607 | 5.76 | 11.10 | 13 | 1851.5 | 18615 | 5.75 | 6.46 | 13 |
| 1880.0 | 18900 | 5.68 | 6.56 | 13 | 1880.0 | 18900 | 5.6 | 6.12 | 13 |
| 1909.3 | 19193 | 10 | 9.09 | 13 | 1908.5 | 19185 | 11.43 | 6.55 | 13 |

| CAT-M1 BAND 2 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1852.5 | 18625 | 5.83 | 6.66 | 13 | 1855.0 | 18650 | 5.67 | 6.04 | 13 |
| 1880.0 | 18900 | 11.5 | 6.07 | 13 | 1880.0 | 18900 | 5.93 | 6.46 | 13 |
| 1907.5 | 19175 | 5.88 | 6.55 | 13 | 1905.0 | 19150 | 5.88 | 6.07 | 13 |

| CAT-M1 BAND 2 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 15MHz | | | | | Channel bandwidth: 20MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1857.5 | 18675 | 10.24 | 6.21 | 13 | 1860.0 | 18700 | 5.72 | 6.20 | 13 |
| 1880.0 | 18900 | 5.78 | 6.06 | 13 | 1880.0 | 18900 | 7.74 | 6.03 | 13 |
| 1902.5 | 19125 | 8.74 | 10.83 | 13 | 1900.0 | 19100 | 5.57 | 5.63 | 13 |

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| CAT-M1 BAND 4 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1710.7 | 19957 | 5.6 | 7.01 | 13 | 1711.5 | 19965 | 7.18 | 6.81 | 13 |
| 1732.5 | 20175 | 11.59 | 6.50 | 13 | 1732.5 | 20175 | 5.98 | 8.07 | 13 |
| 1754.3 | 20393 | 5.58 | 6.88 | 13 | 1753.5 | 20385 | 5.52 | 6.16 | 13 |

| CAT-M1 BAND 4 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1712.5 | 19975 | 5.68 | 8.27 | 13 | 1715.0 | 20000 | 5.66 | 8.64 | 13 |
| 1732.5 | 20175 | 5.66 | 6.84 | 13 | 1732.5 | 20175 | 5.64 | 6.50 | 13 |
| 1752.5 | 20375 | 5.73 | 6.44 | 13 | 1750.0 | 20350 | 6.78 | 6.61 | 13 |

| CAT-M1 BAND 4 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 15MHz | | | | | Channel bandwidth: 20MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1717.5 | 20025 | 5.65 | 11.09 | 13 | 1720.0 | 20050 | 5.79 | 6.25 | 13 |
| 1732.5 | 20175 | 5.51 | 7.14 | 13 | 1732.5 | 20175 | 5.74 | 6.22 | 13 |
| 1747.5 | 20325 | 7.52 | 6.08 | 13 | 1745.0 | 20300 | 6.66 | 6.17 | 13 |

| CAT-M1 BAND 5 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 824.7 | 20407 | 5.58 | 6.43 | 13 | 825.5 | 20415 | 5.43 | 10.48 | 13 |
| 836.5 | 20525 | 5.87 | 6.13 | 13 | 836.5 | 20525 | 5.95 | 6.45 | 13 |
| 848.3 | 20643 | 5.72 | 6.48 | 13 | 847.5 | 20635 | 7.03 | 10.14 | 13 |

| CAT-M1 BAND 5 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 826.5 | 20425 | 5.84 | 6.39 | 13 | 829.0 | 20450 | 5.99 | 12.46 | 13 |
| 836.5 | 20525 | 5.82 | 6.65 | 13 | 836.5 | 20525 | 7.66 | 5.97 | 13 |
| 846.5 | 20625 | 5.98 | 6.13 | 13 | 844.0 | 20600 | 8.78 | 8.35 | 13 |

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| CAT-M1 BAND 12 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 699.7 | 23017 | 5.42 | 6.82 | 13 | 700.5 | 23025 | 5.53 | 6.56 | 13 |
| 707.5 | 23095 | 8.59 | 6.51 | 13 | 707.5 | 23095 | 5.51 | 6.99 | 13 |
| 715.3 | 23173 | 5.98 | 8.29 | 13 | 714.5 | 23165 | 5.48 | 6.39 | 13 |

| CAT-M1 BAND 12 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 701.5 | 23035 | 5.8 | 5.95 | 13 | 704.0 | 23060 | 6.03 | 6.62 | 13 |
| 707.5 | 23095 | 5.6 | 6.57 | 13 | 707.5 | 23095 | 7.67 | 6.65 | 13 |
| 713.5 | 23155 | 7.4 | 7.08 | 13 | 711.0 | 23130 | 5.52 | 6.56 | 13 |

| CAT-M1 BAND 13 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 779.5 | 23205 | 5.74 | 6.83 | 13 | 782.0 | 23230 | 5.73 | 5.92 | 13 |
| 782.0 | 23230 | 9.88 | 11.22 | 13 | | | | | |
| 784.5 | 23255 | 5.7 | 6.69 | 13 | | | | | |

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| CAT-M1 BAND 25 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1850.7 | 26047 | 5.7 | 6.54 | 13 | 1851.5 | 26055 | 6.2 | 7.78 | 13 |
| 1882.5 | 26365 | 5.49 | 6.55 | 13 | 1882.5 | 26365 | 6.05 | 6.44 | 13 |
| 1914.3 | 26683 | 5.99 | 7.31 | 13 | 1913.5 | 26675 | 12.9 | 7.16 | 13 |

| CAT-M1 BAND 25 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1852.5 | 26065 | 6 | 6.48 | 13 | 1855.0 | 26090 | 6.1 | 6.21 | 13 |
| 1882.5 | 26365 | 5.78 | 6.16 | 13 | 1882.5 | 26365 | 5.79 | 6.08 | 13 |
| 1912.5 | 26665 | 5.84 | 6.78 | 13 | 1910.0 | 26640 | 5.71 | 6.61 | 13 |

| CAT-M1 BAND 25 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 15MHz | | | | | Channel bandwidth: 20MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1857.5 | 26115 | 5.76 | 6.32 | 13 | 1860.0 | 26140 | 7.5 | 6.13 | 13 |
| 1882.5 | 26365 | 7.07 | 5.81 | 13 | 1882.5 | 26365 | 5.6 | 6.84 | 13 |
| 1907.5 | 26615 | 5.6 | 6.37 | 13 | 1905.0 | 26590 | 5.45 | 6.42 | 13 |

| CAT-M1 BAND 26 for part 90S | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 814.7 | 26697 | 5.64 | 6.53 | 13 | 815.5 | 26705 | 5.45 | 6.50 | 13 |
| 819.0 | 26740 | 5.6 | 6.43 | 13 | 819 | 26740 | 5.47 | 6.82 | 13 |
| 823.3 | 26783 | 7.54 | 6.63 | 13 | 822.5 | 26775 | 5.52 | 6.91 | 13 |

| CAT-M1 BAND 26 for part 90S | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 816.5 | 26715 | 7.22 | 5.99 | 13 | 819.0 | 26740 | 7.86 | 6.50 | 13 |
| 819.0 | 26740 | 5.68 | 8.24 | 13 | | | | | |
| 821.5 | 26765 | 12.77 | 6.60 | 13 | | | | | |

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| CAT-M1 BAND 26 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 824.7 | 26797 | 5.65 | 11.87 | 13 | 825.5 | 26805 | 5.41 | 6.50 | 13 |
| 836.5 | 26915 | 5.7 | 8.12 | 13 | 836.5 | 26915 | 6.57 | 8.26 | 13 |
| 848.3 | 27033 | 6.03 | 6.45 | 13 | 847.5 | 27025 | 7.29 | 7.04 | 13 |

| CAT-M1 BAND 26 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 826.5 | 26815 | 9.88 | 6.48 | 13 | 829.0 | 26840 | 5.84 | 6.86 | 13 |
| 836.5 | 26915 | 9.97 | 6.94 | 13 | 836.5 | 26915 | 5.8 | 6.79 | 13 |
| 846.5 | 27015 | 5.8 | 6.79 | 13 | 844.0 | 26990 | 5.69 | 6.97 | 13 |

| CAT-M1 BAND 26 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 15MHz | | | | | | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | | | | | |
| | | QPSK | 16QAM | Limit | | | | | |
| 831.5 | 26865 | 5.53 | 6.46 | 13 | | | | | |
| 836.5 | 26915 | 5.6 | 7.78 | 13 | | | | | |
| 841.5 | 26965 | 5.62 | 5.76 | 13 | | | | | |

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| CAT-M1 BAND 66 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 1.4MHz | | | | | Channel bandwidth: 3MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1710.7 | 131979 | 5.9 | 6.42 | 13 | 1711.5 | 131987 | 5.6 | 8.85 | 13 |
| 1745.0 | 132322 | 8.01 | 6.51 | 13 | 1745.0 | 132322 | 6.01 | 6.76 | 13 |
| 1779.3 | 132665 | 7.3 | 6.47 | 13 | 1778.5 | 132657 | 10.07 | 10.33 | 13 |

| CAT-M1 BAND 66 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 5MHz | | | | | Channel bandwidth: 10MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1712.5 | 131997 | 5.69 | 5.96 | 13 | 1715.0 | 132022 | 5.73 | 6.58 | 13 |
| 1745.0 | 132322 | 5.57 | 10.62 | 13 | 1745.0 | 132322 | 5.85 | 6.94 | 13 |
| 1777.5 | 132647 | 6.55 | 9.23 | 13 | 1775.0 | 132622 | 5.86 | 10.84 | 13 |

| CAT-M1 BAND 66 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel bandwidth: 15MHz | | | | | Channel bandwidth: 20MHz | | | | |
| Freq. (MHz) | CH | PAPR (dB) | | | Freq. (MHz) | CH | PAPR (dB) | | |
| | | QPSK | 16QAM | Limit | | | QPSK | 16QAM | Limit |
| 1717.5 | 132047 | 6.74 | 6.35 | 13 | 1720.0 | 132072 | 5.6 | 6.09 | 13 |
| 1745.0 | 132322 | 5.61 | 6.18 | 13 | 1745.0 | 132322 | 5.66 | 11.60 | 13 |
| 1772.5 | 132597 | 5.59 | 5.99 | 13 | 1770.0 | 132572 | 5.52 | 6.10 | 13 |

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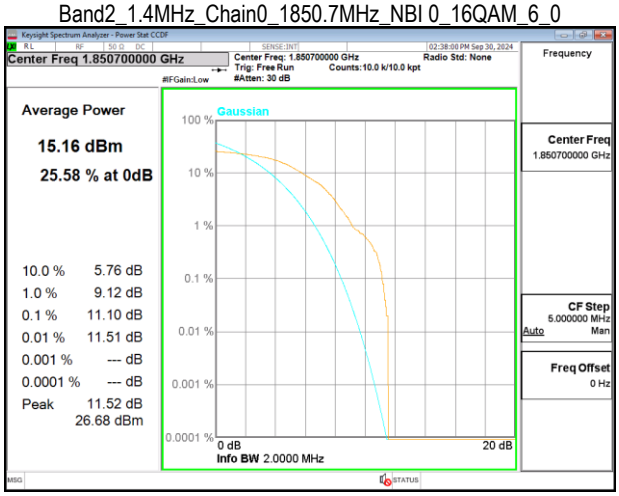
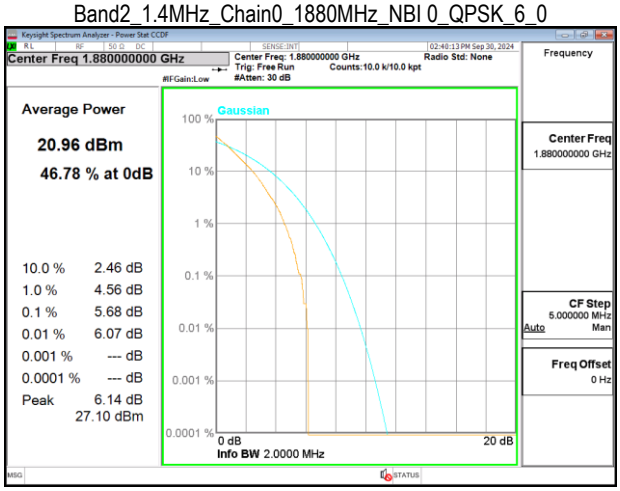
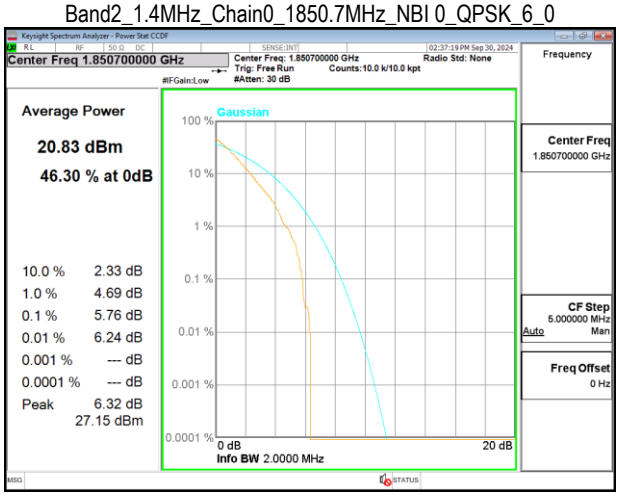
Band2_1.4MHz_Chain0_1850.7MHz_NBI 0_16QAM_6_0



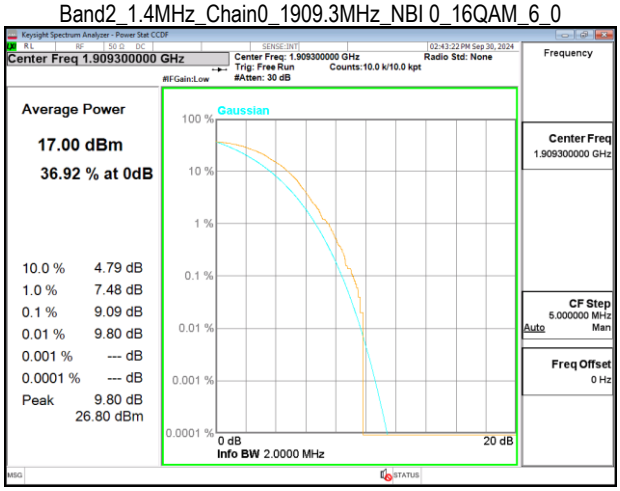

Band2_1.4MHz_Chain0_1880MHz_NBI 0_QPSK_6_0



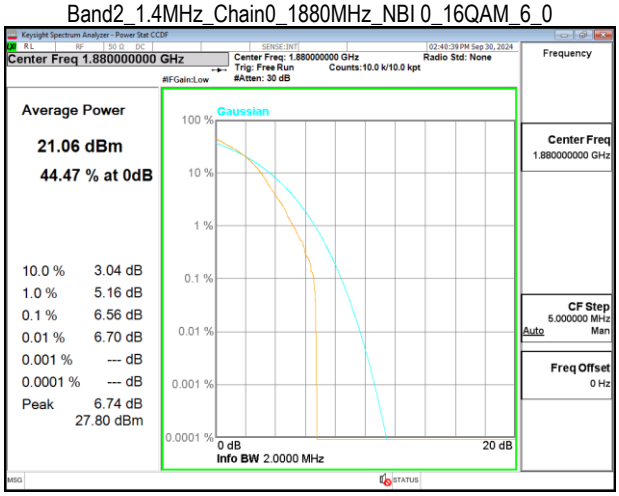

Band2_1.4MHz_Chain0_1850.7MHz_NBI 0_QPSK_6_0



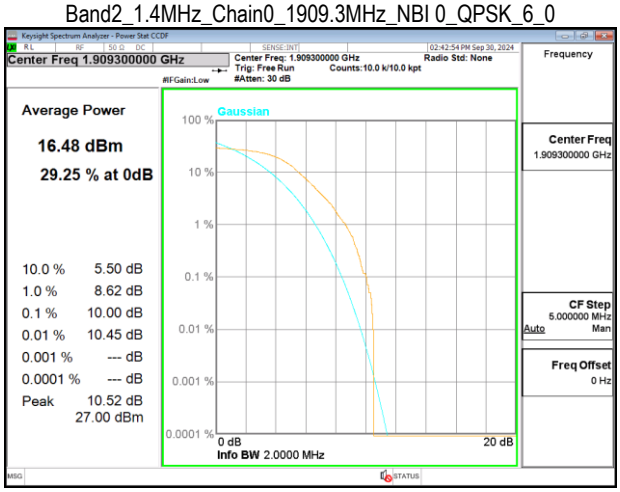

Band2_1.4MHz_Chain0_1909.3MHz_NBI 0_16QAM_6_0




Band2_1.4MHz_Chain0_1880MHz_NBI 0_16QAM_6_0




Band2_1.4MHz_Chain0_1909.3MHz_NBI 0_QPSK_6_0

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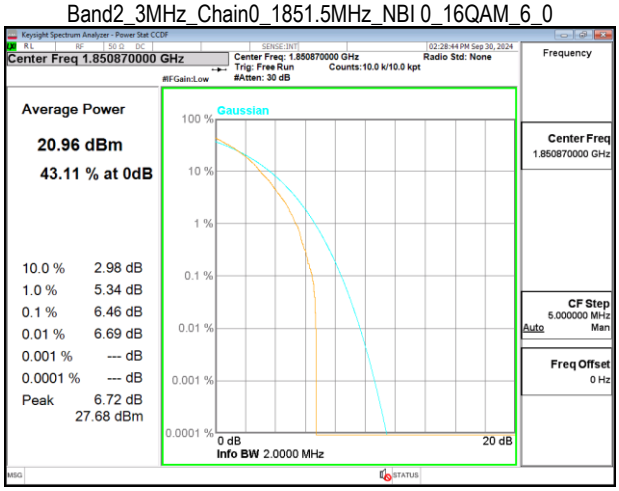
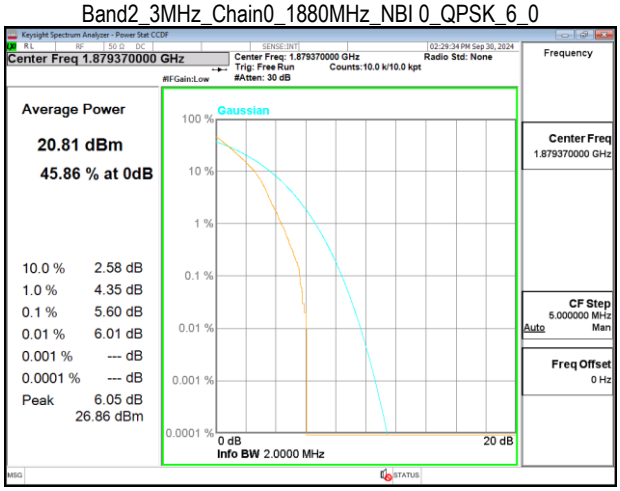
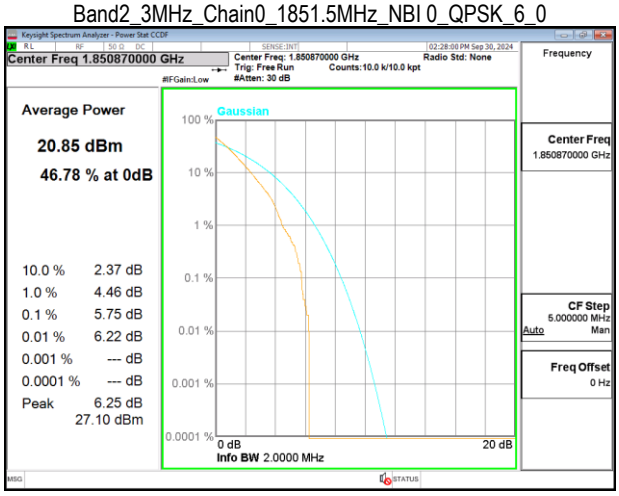
Band2_3MHz_Chain0_1851.5MHz_NBI 0_16QAM_6_0



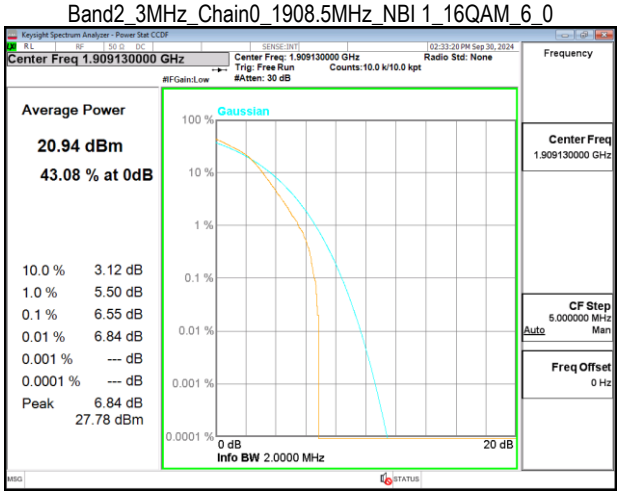

Band2_3MHz_Chain0_1880MHz_NBI 0_QPSK_6_0



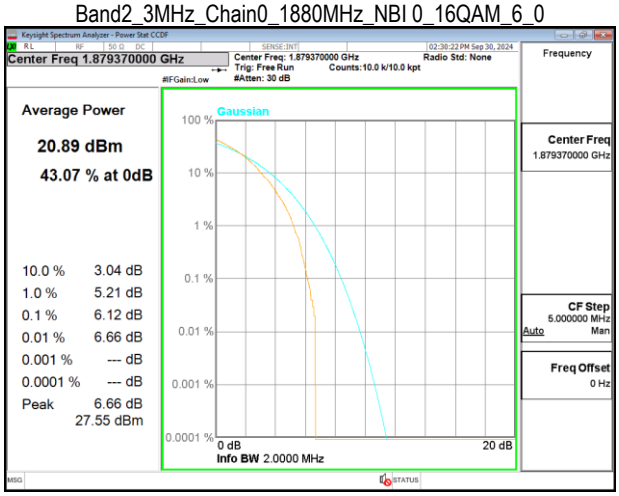

Band2_3MHz_Chain0_1851.5MHz_NBI 0_QPSK_6_0



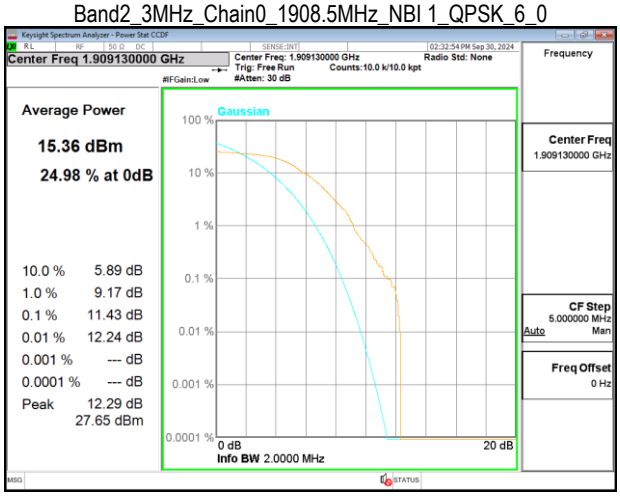

Band2_3MHz_Chain0_1908.5MHz_NBI 1_16QAM_6_0




Band2_3MHz_Chain0_1880MHz_NBI 0_16QAM_6_0




Band2_3MHz_Chain0_1908.5MHz_NBI 1_QPSK_6_0

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