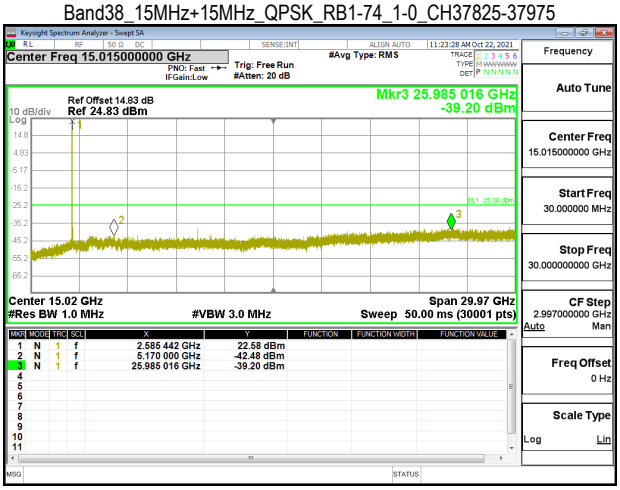
Band38_15MHz+15MHz_QPSK_RB1-74_1-0_CH37825-37975

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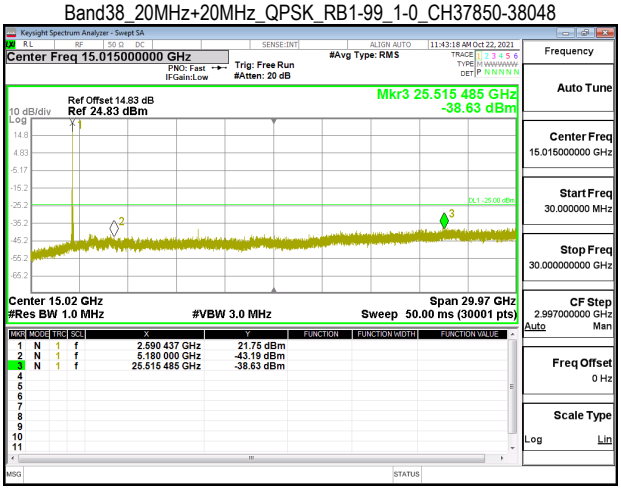


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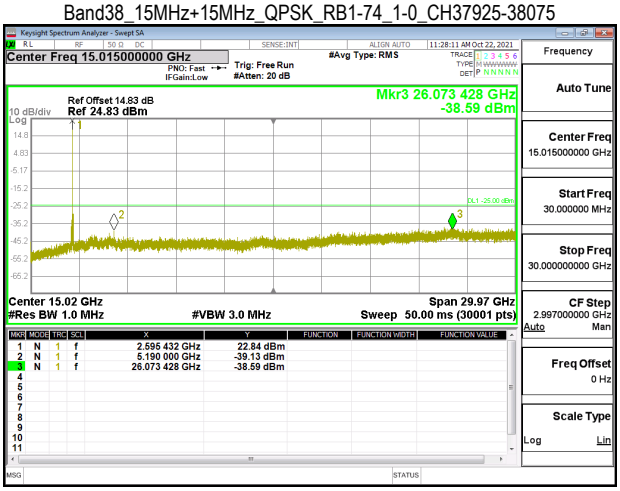
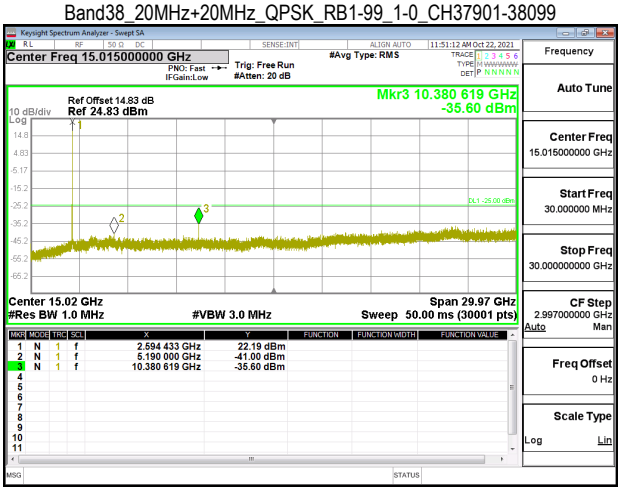



Band38_20MHz+20MHz_QPSK_RB1-99_1-0_CH37901-38099

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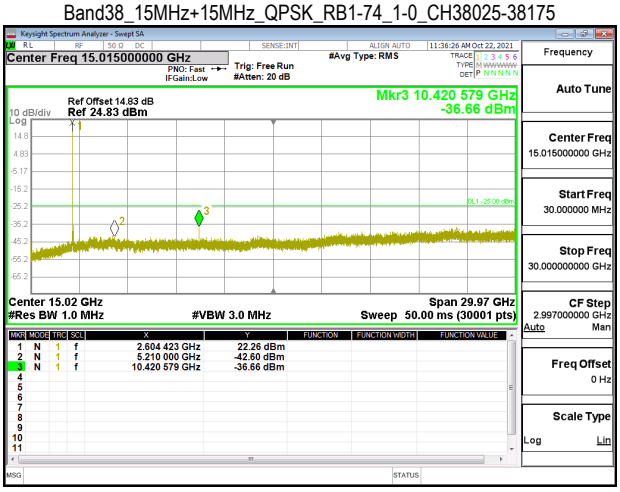
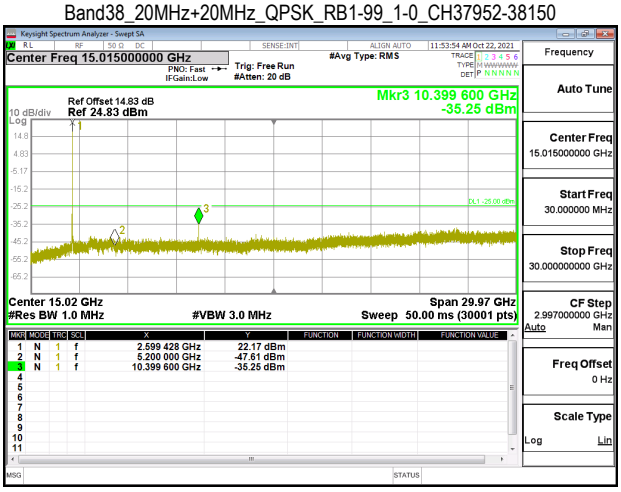



Band38_20MHz+20MHz_QPSK_RB1-99_1-0_CH37952-38150

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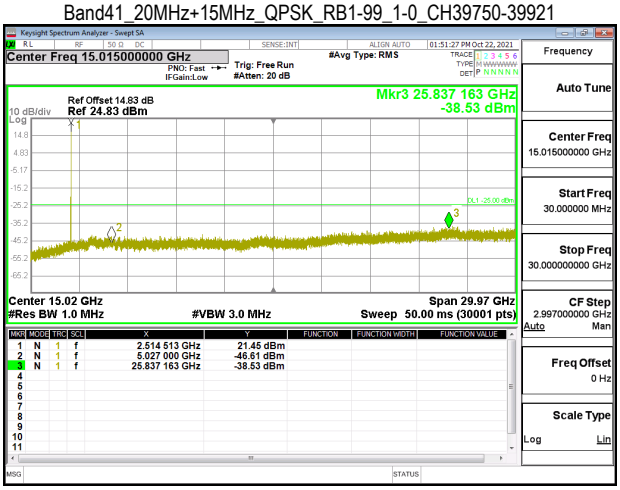
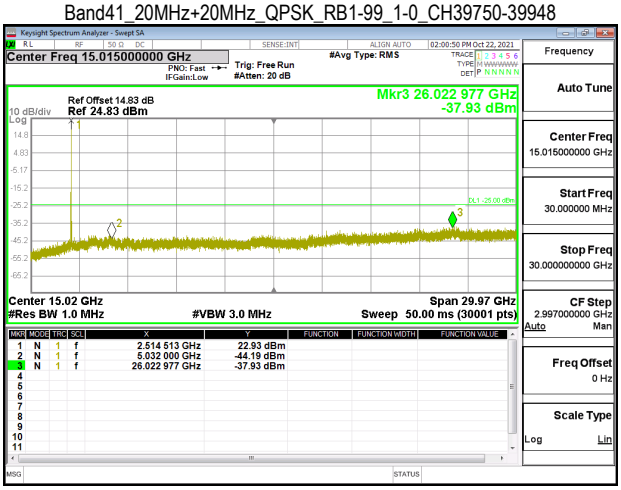
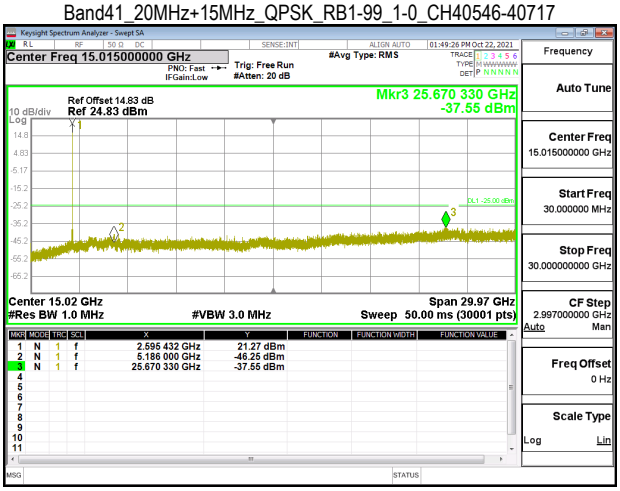
Band41_20MHz+15MHz_QPSK_RB1-99_1-0_CH39750-39921




Band41_20MHz+20MHz_QPSK_RB1-99_1-0_CH39750-39948




Band41_20MHz+15MHz_QPSK_RB1-99_1-0_CH40546-40717

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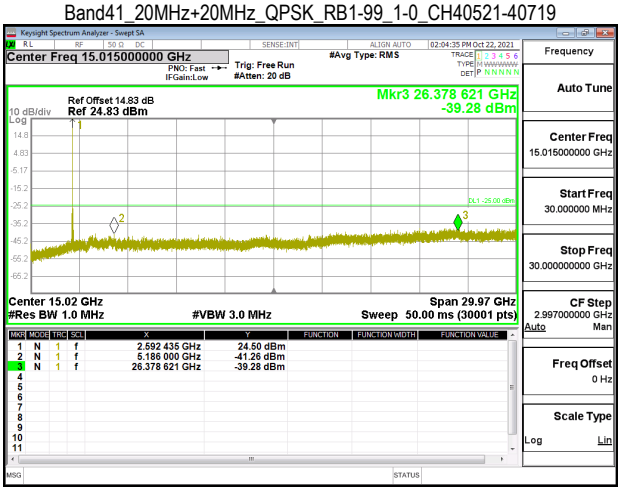


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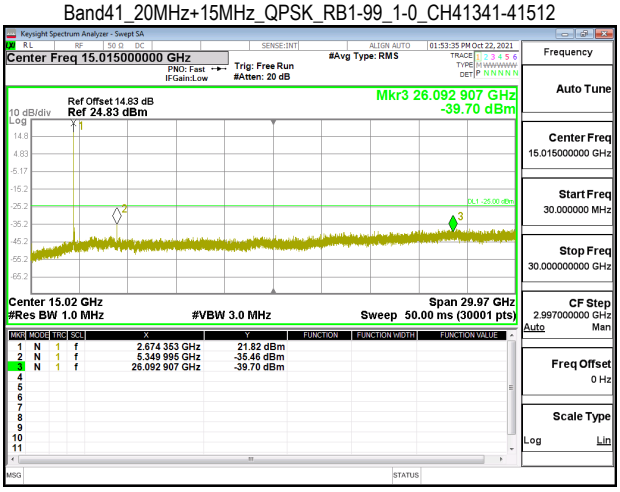
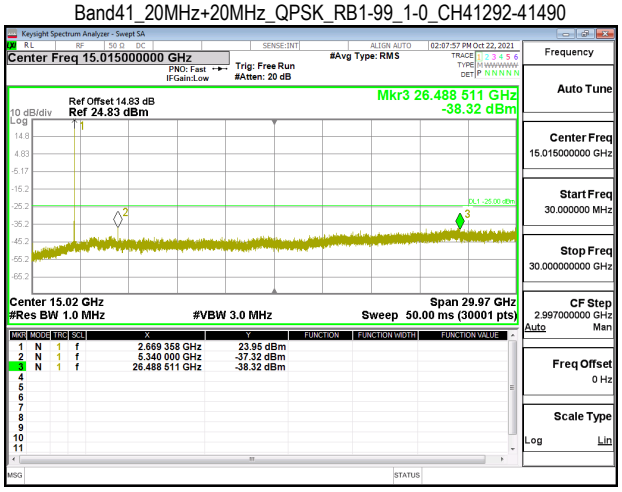



Band41_20MHz+20MHz_QPSK_RB1-99_1-0_CH41292-41490

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# 10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

## 10.1 Standard Applicable

According to FCC §2.1053,

**FCC §22.917(a), §27.53(h)**

**RSS-132 §5.5, RSS-199 §4.5**

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

**FCC §27.53(m) (4) (6)**

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

**ISED RSS-132 §5.5**

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

i. 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 (in dB) below the transmitter output power P ( dBW) by at least 43 + 10 log10p (watts).

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 (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

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**RSS-199 §4.5**

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.
Equipment shall comply with the following unwanted emission limits:
for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

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

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

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

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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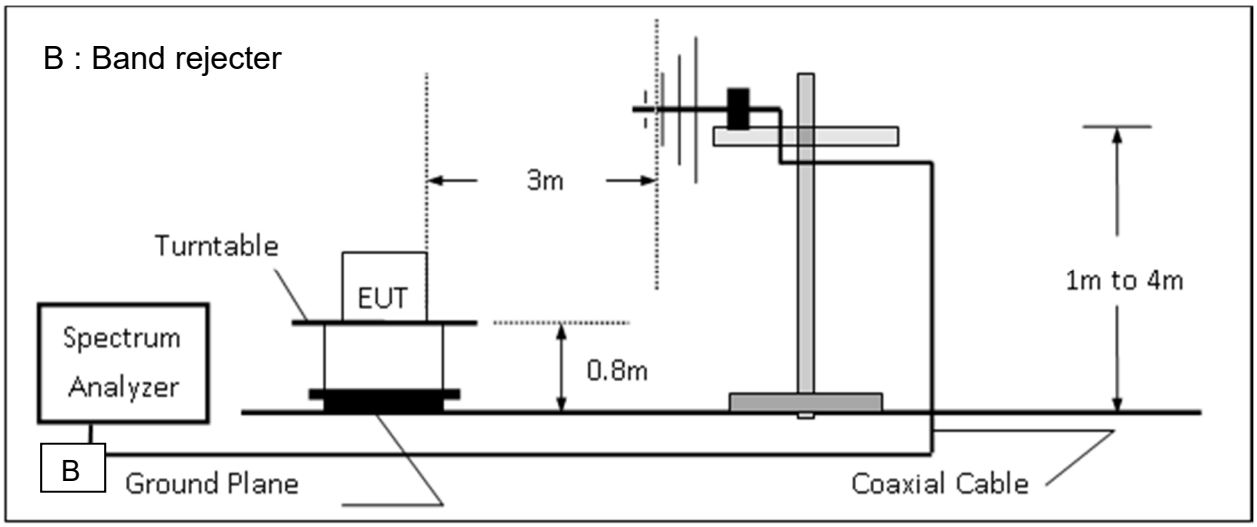
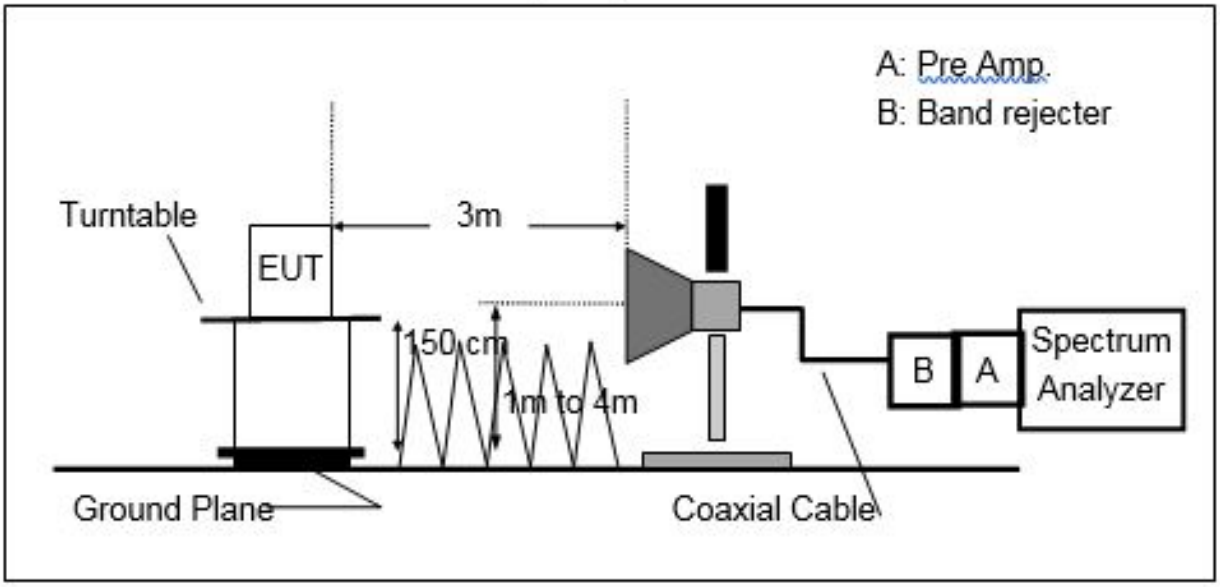
## 10.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz




Radiated Emission Test Set-UP Frequency Over 1 GHz

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## 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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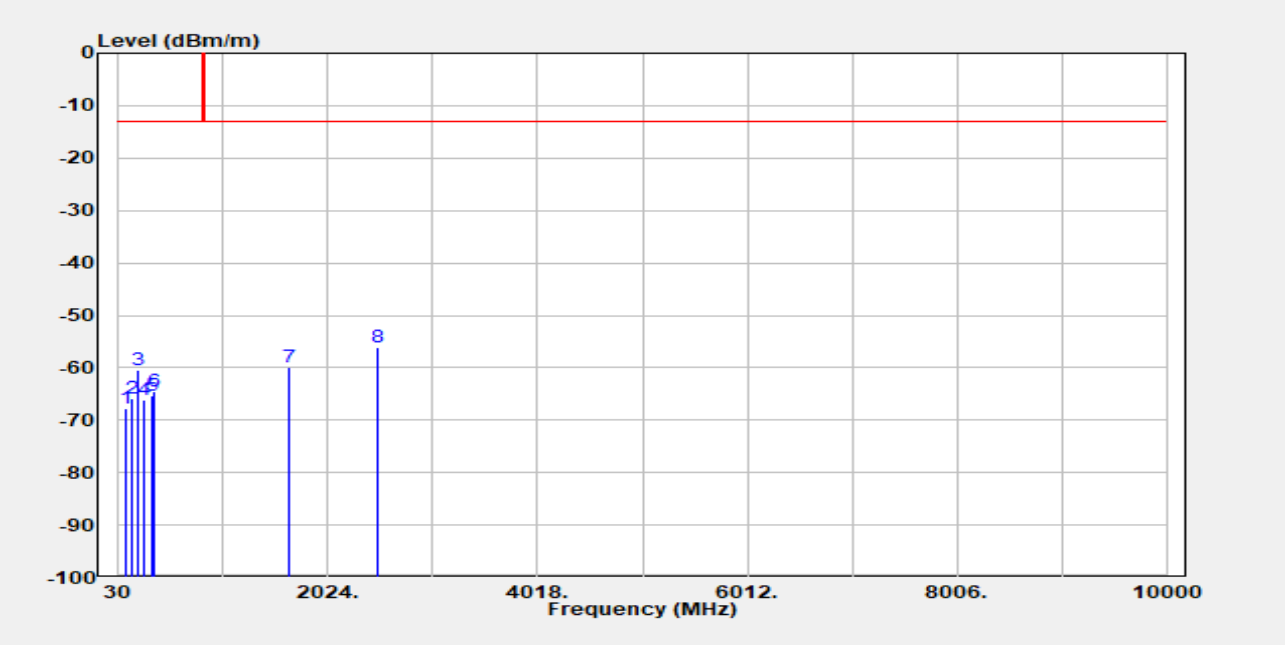
## 10.4 Measurement Result:

| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 5C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :826.8_834 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 101.13 | -67.77 | -65.88 | -0.88 | -1.02 | -13.00 | -54.77 |
| 149.63 | -65.87 | -63.10 | -1.62 | -1.15 | -13.00 | -52.87 |
| 222.38 | -60.54 | -64.06 | 5.03 | -1.50 | -13.00 | -47.54 |
| 269.27 | -66.11 | -68.61 | 4.14 | -1.64 | -13.00 | -53.11 |
| 348.48 | -65.39 | -67.90 | 4.52 | -2.01 | -13.00 | -52.39 |
| 371.12 | -64.49 | -66.85 | 4.35 | -1.99 | -13.00 | -51.49 |
| 1660.80 | -59.91 | -65.16 | 9.52 | -4.27 | -13.00 | -46.91 |
| 2491.20 | -56.07 | -61.48 | 10.58 | -5.18 | -13.00 | -43.07 |

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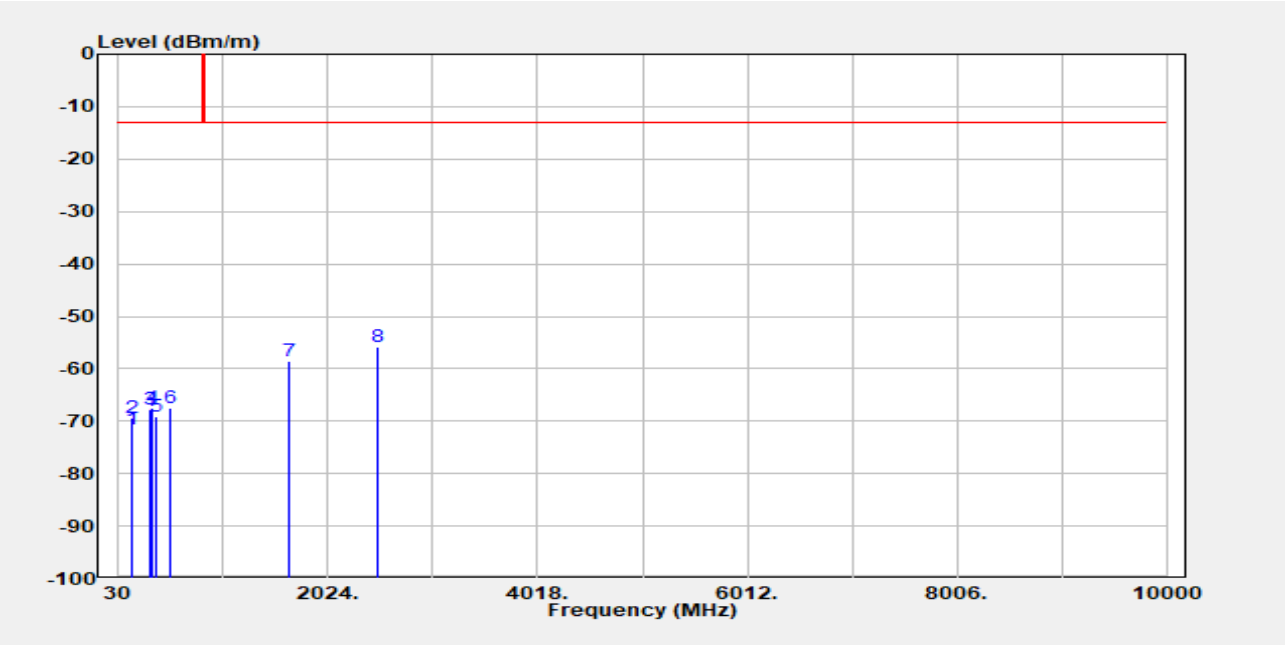
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 5C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :826.8_834 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 149.63 | -71.65 | -68.88 | -1.62 | -1.15 | -13.00 | -58.65 |
| 164.18 | -69.38 | -67.24 | -0.88 | -1.26 | -13.00 | -56.38 |
| 335.55 | -67.74 | -70.13 | 4.28 | -1.90 | -13.00 | -54.74 |
| 348.48 | -67.39 | -69.90 | 4.52 | -2.01 | -13.00 | -54.39 |
| 388.90 | -69.21 | -71.57 | 4.40 | -2.04 | -13.00 | -56.21 |
| 519.85 | -67.61 | -69.51 | 4.10 | -2.20 | -13.00 | -54.61 |
| 1660.80 | -58.52 | -63.77 | 9.52 | -4.27 | -13.00 | -45.52 |
| 2491.20 | -55.73 | -61.13 | 10.58 | -5.18 | -13.00 | -42.73 |

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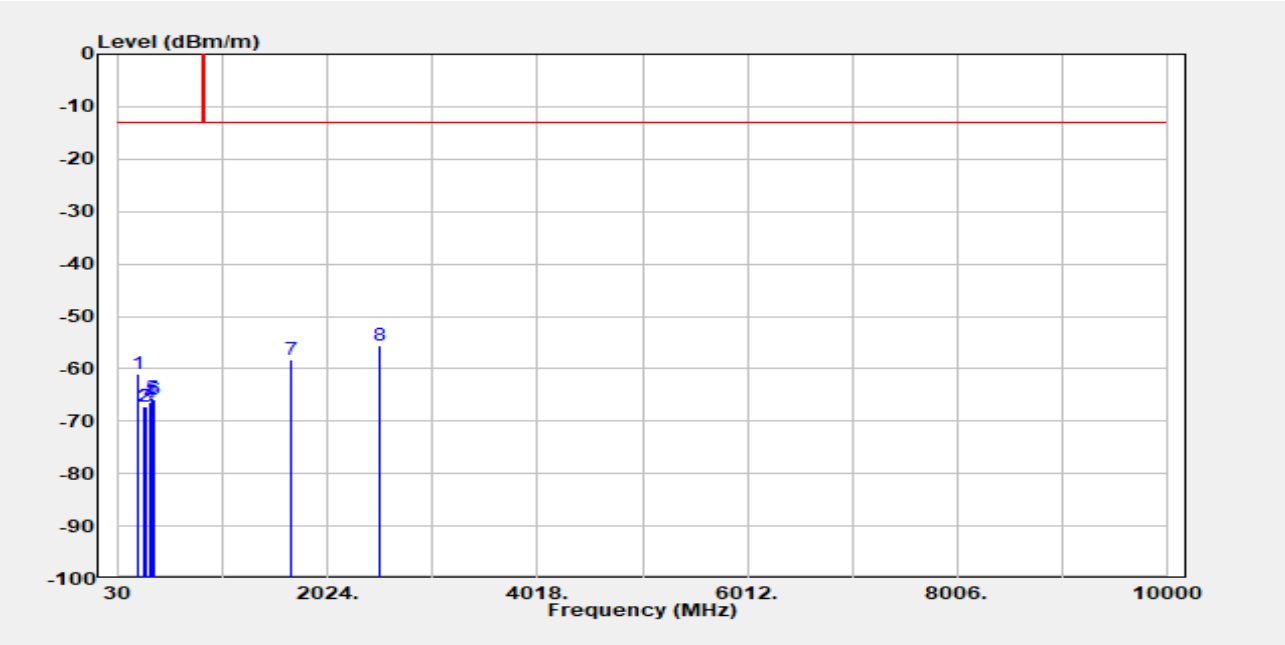
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 5C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :831.8_839 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 222.38 | -60.96 | -64.48 | 5.03 | -1.50 | -13.00 | -47.96 |
| 269.27 | -67.30 | -69.80 | 4.14 | -1.64 | -13.00 | -54.30 |
| 296.75 | -67.19 | -69.55 | 4.13 | -1.77 | -13.00 | -54.19 |
| 335.55 | -66.47 | -68.85 | 4.28 | -1.90 | -13.00 | -53.47 |
| 348.48 | -65.64 | -68.16 | 4.52 | -2.01 | -13.00 | -52.64 |
| 371.12 | -65.77 | -68.13 | 4.35 | -1.99 | -13.00 | -52.77 |
| 1670.80 | -58.17 | -63.42 | 9.54 | -4.29 | -13.00 | -45.17 |
| 2506.20 | -55.45 | -60.87 | 10.61 | -5.19 | -13.00 | -42.45 |

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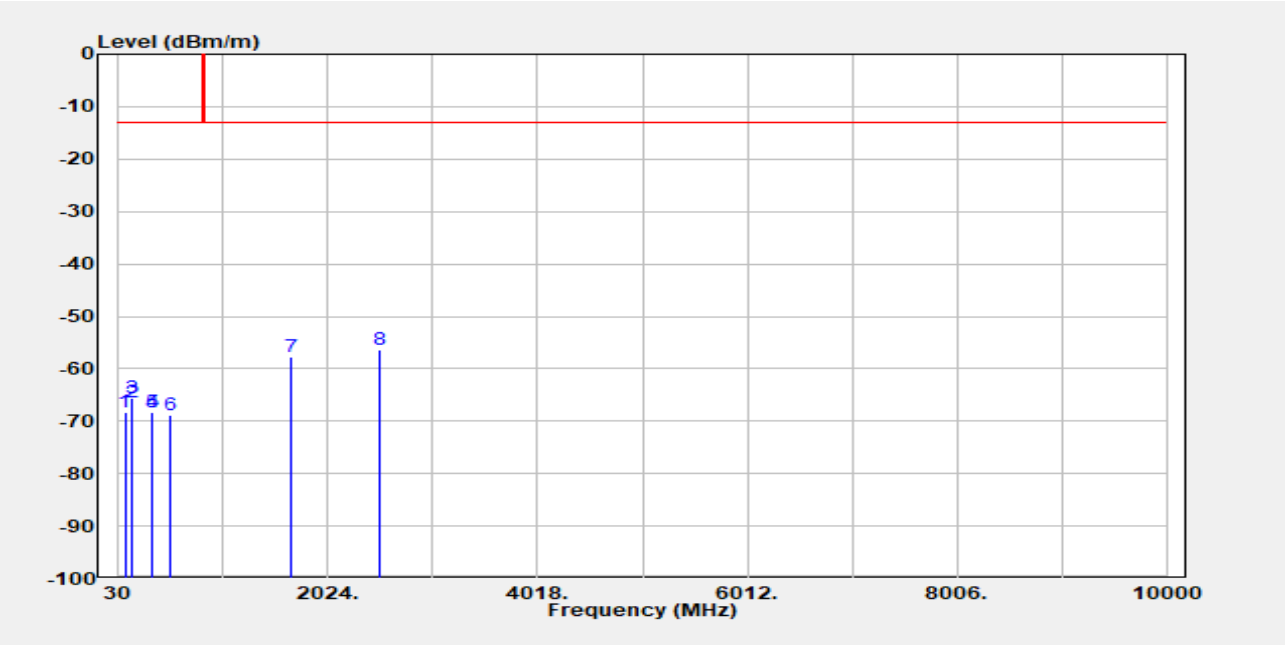
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 5C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :831.8_839 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -68.37 | -66.96 | -0.43 | -0.98 | -13.00 | -55.37 |
| 149.63 | -66.27 | -63.50 | -1.62 | -1.15 | -13.00 | -53.27 |
| 164.18 | -65.57 | -63.44 | -0.88 | -1.26 | -13.00 | -52.57 |
| 342.02 | -68.34 | -70.78 | 4.36 | -1.92 | -13.00 | -55.34 |
| 348.48 | -68.22 | -70.73 | 4.52 | -2.01 | -13.00 | -55.22 |
| 519.85 | -68.83 | -70.73 | 4.10 | -2.20 | -13.00 | -55.83 |
| 1670.80 | -57.76 | -63.02 | 9.54 | -4.29 | -13.00 | -44.76 |
| 2506.20 | -56.44 | -61.86 | 10.61 | -5.19 | -13.00 | -43.44 |

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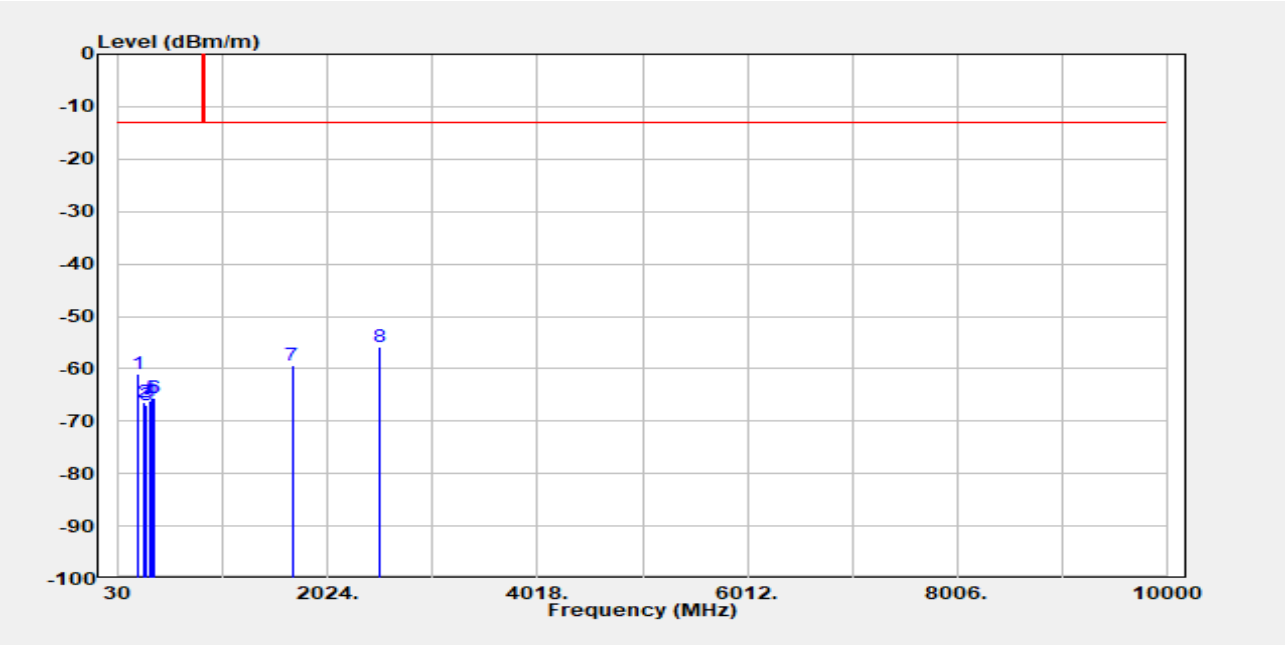
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 5C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :836.8_844 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 222.38 | -60.86 | -64.38 | 5.03 | -1.50 | -13.00 | -47.86 |
| 269.27 | -66.35 | -68.85 | 4.14 | -1.64 | -13.00 | -53.35 |
| 296.75 | -66.96 | -69.32 | 4.13 | -1.77 | -13.00 | -53.96 |
| 335.55 | -66.22 | -68.60 | 4.28 | -1.90 | -13.00 | -53.22 |
| 348.48 | -65.45 | -67.96 | 4.52 | -2.01 | -13.00 | -52.45 |
| 371.12 | -65.55 | -67.91 | 4.35 | -1.99 | -13.00 | -52.55 |
| 1680.80 | -59.37 | -64.63 | 9.56 | -4.30 | -13.00 | -46.37 |
| 2521.20 | -55.72 | -61.15 | 10.64 | -5.21 | -13.00 | -42.72 |

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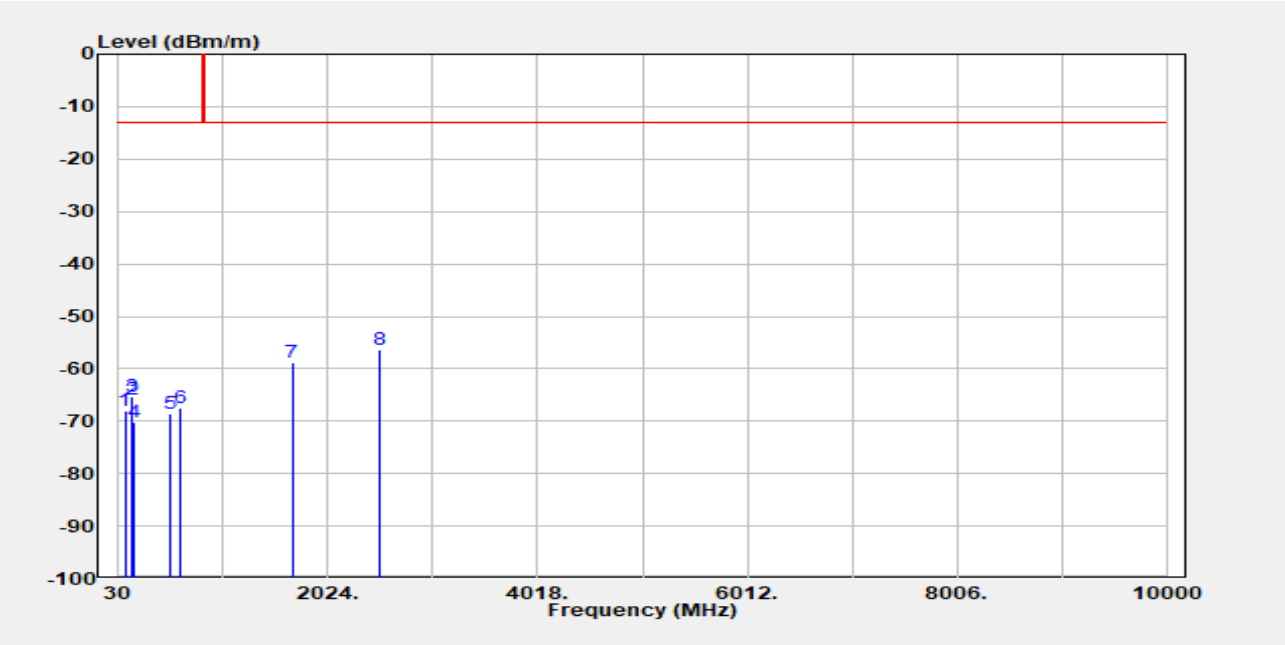
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 5C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :836.8_844 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -68.14 | -66.73 | -0.43 | -0.98 | -13.00 | -55.14 |
| 149.63 | -65.82 | -63.05 | -1.62 | -1.15 | -13.00 | -52.82 |
| 164.18 | -65.40 | -63.26 | -0.88 | -1.26 | -13.00 | -52.40 |
| 181.97 | -70.08 | -70.57 | 1.87 | -1.39 | -13.00 | -57.08 |
| 519.85 | -68.68 | -70.58 | 4.10 | -2.20 | -13.00 | -55.68 |
| 610.38 | -67.38 | -68.37 | 3.48 | -2.50 | -13.00 | -54.38 |
| 1680.80 | -58.74 | -64.00 | 9.56 | -4.30 | -13.00 | -45.74 |
| 2521.20 | -56.45 | -61.88 | 10.64 | -5.21 | -13.00 | -43.45 |

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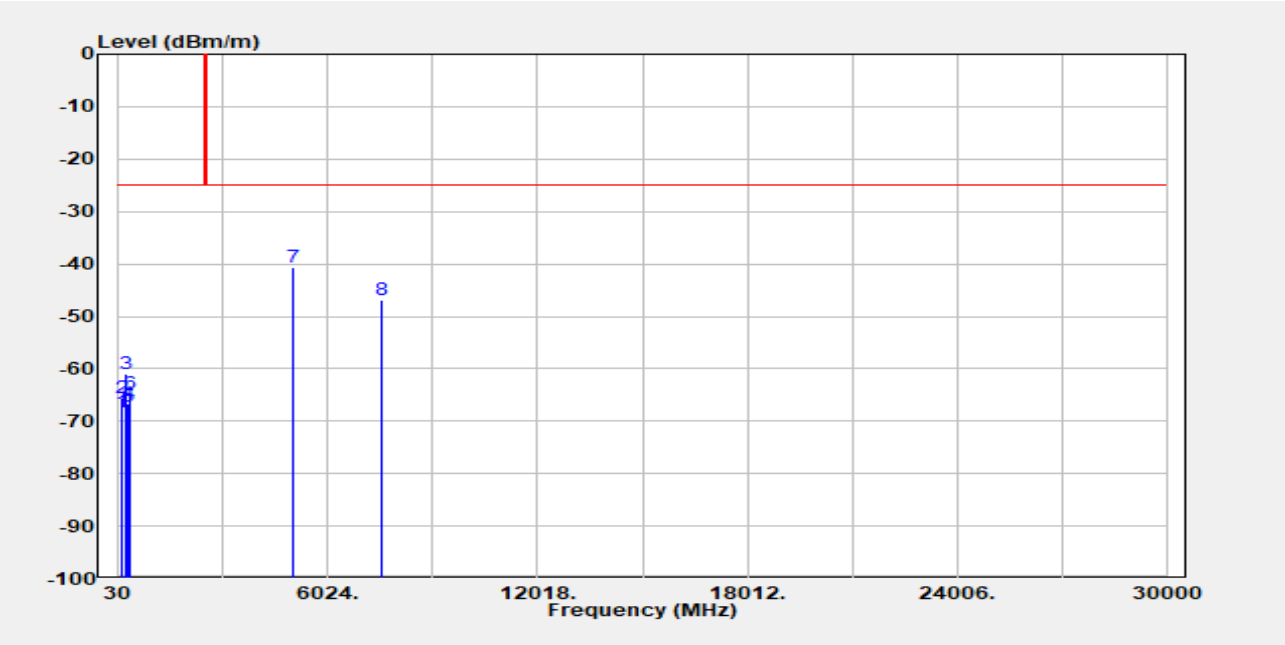
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 7C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2510_2524.4 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 107.60 | -68.42 | -65.95 | -1.42 | -1.04 | -25.00 | -43.42 |
| 149.63 | -65.62 | -62.85 | -1.62 | -1.15 | -25.00 | -40.62 |
| 222.38 | -61.08 | -64.60 | 5.03 | -1.50 | -25.00 | -36.08 |
| 269.27 | -66.57 | -69.07 | 4.14 | -1.64 | -25.00 | -41.57 |
| 296.75 | -67.22 | -69.58 | 4.13 | -1.77 | -25.00 | -42.22 |
| 371.12 | -64.89 | -67.24 | 4.35 | -1.99 | -25.00 | -39.89 |
| 5034.40 | -40.78 | -45.39 | 12.22 | -7.62 | -25.00 | -15.77 |
| 7551.60 | -46.81 | -48.52 | 11.10 | -9.39 | -25.00 | -21.80 |

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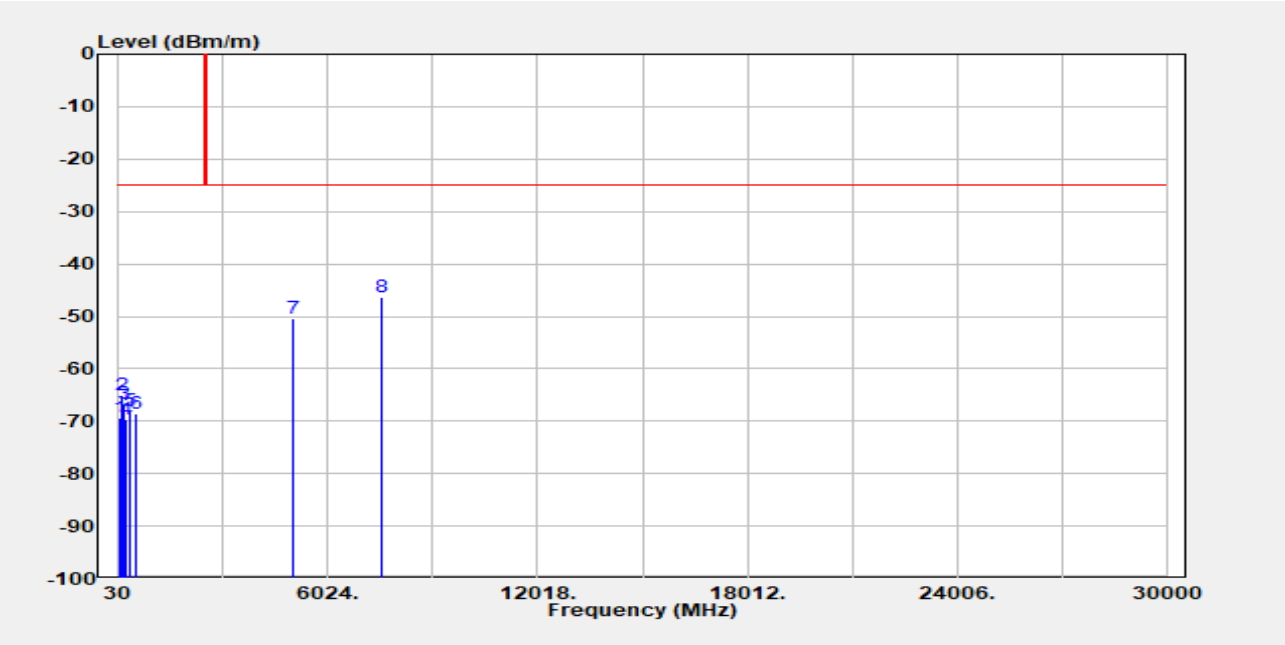
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 7C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2510_2524.4 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -69.40 | -67.99 | -0.43 | -0.98 | -25.00 | -44.40 |
| 149.63 | -65.14 | -62.38 | -1.62 | -1.15 | -25.00 | -40.14 |
| 164.18 | -66.78 | -64.65 | -0.88 | -1.26 | -25.00 | -41.78 |
| 240.17 | -69.68 | -72.45 | 4.38 | -1.61 | -25.00 | -44.68 |
| 345.25 | -67.99 | -70.47 | 4.44 | -1.97 | -25.00 | -42.99 |
| 519.85 | -68.50 | -70.40 | 4.10 | -2.20 | -25.00 | -43.50 |
| 5034.40 | -50.47 | -55.08 | 12.22 | -7.62 | -25.00 | -25.46 |
| 7551.60 | -46.41 | -48.12 | 11.10 | -9.39 | -25.00 | -21.40 |

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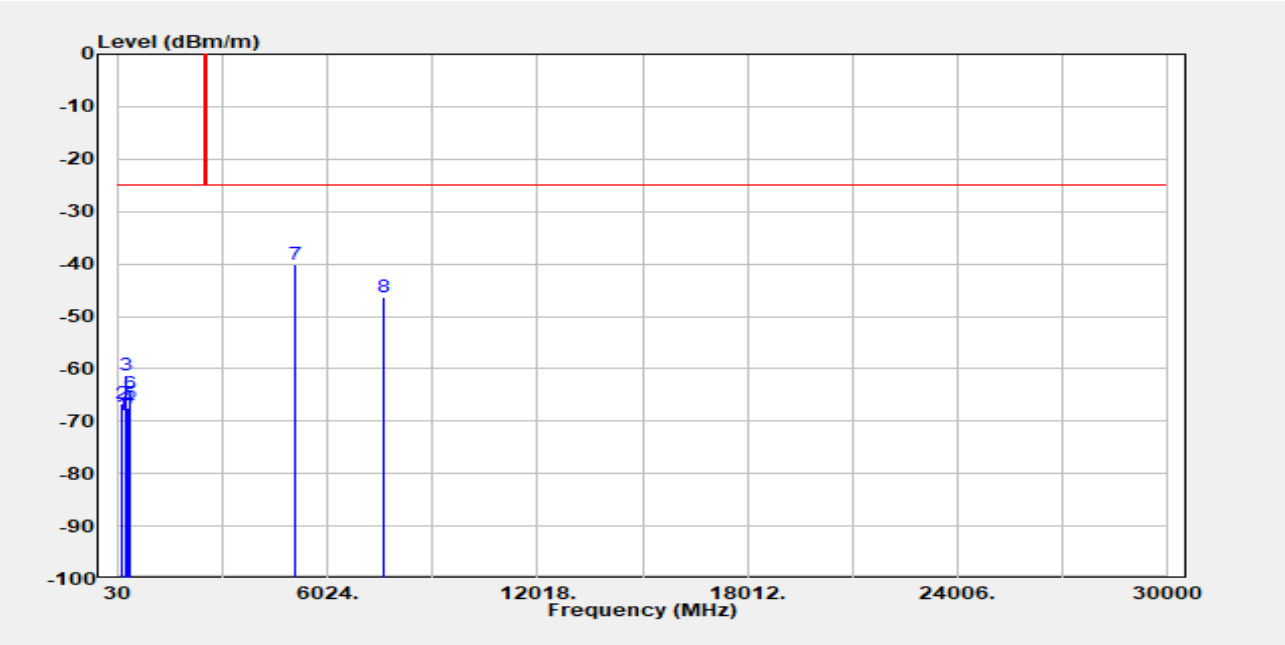
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 7C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2530.1_2544.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 107.60 | -68.76 | -66.29 | -1.42 | -1.04 | -25.00 | -43.76 |
| 149.63 | -66.53 | -63.76 | -1.62 | -1.15 | -25.00 | -41.53 |
| 222.38 | -61.17 | -64.70 | 5.03 | -1.50 | -25.00 | -36.17 |
| 269.27 | -67.59 | -70.09 | 4.14 | -1.64 | -25.00 | -42.59 |
| 335.55 | -66.62 | -69.00 | 4.28 | -1.90 | -25.00 | -41.62 |
| 371.12 | -64.75 | -67.10 | 4.35 | -1.99 | -25.00 | -39.75 |
| 5074.60 | -40.04 | -44.29 | 12.10 | -7.85 | -25.00 | -15.03 |
| 7611.90 | -46.43 | -48.01 | 11.22 | -9.64 | -25.00 | -21.42 |

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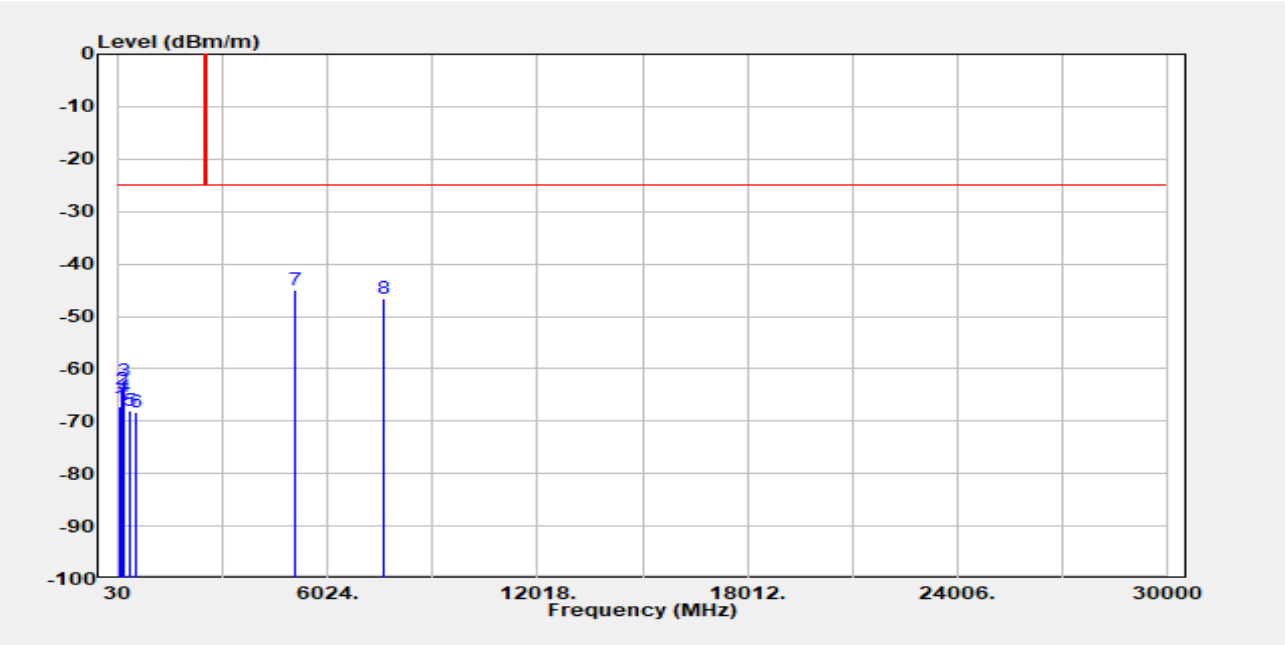
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 7C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2530.1_2544.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -67.26 | -65.85 | -0.43 | -0.98 | -25.00 | -42.26 |
| 149.63 | -64.06 | -61.29 | -1.62 | -1.15 | -25.00 | -39.06 |
| 164.18 | -62.46 | -60.32 | -0.88 | -1.26 | -25.00 | -37.46 |
| 181.97 | -65.34 | -65.83 | 1.87 | -1.39 | -25.00 | -40.34 |
| 345.25 | -67.98 | -70.45 | 4.44 | -1.97 | -25.00 | -42.98 |
| 519.85 | -68.22 | -70.12 | 4.10 | -2.20 | -25.00 | -43.22 |
| 5074.60 | -44.86 | -49.11 | 12.10 | -7.85 | -25.00 | -19.85 |
| 7611.90 | -46.67 | -48.25 | 11.22 | -9.64 | -25.00 | -21.66 |

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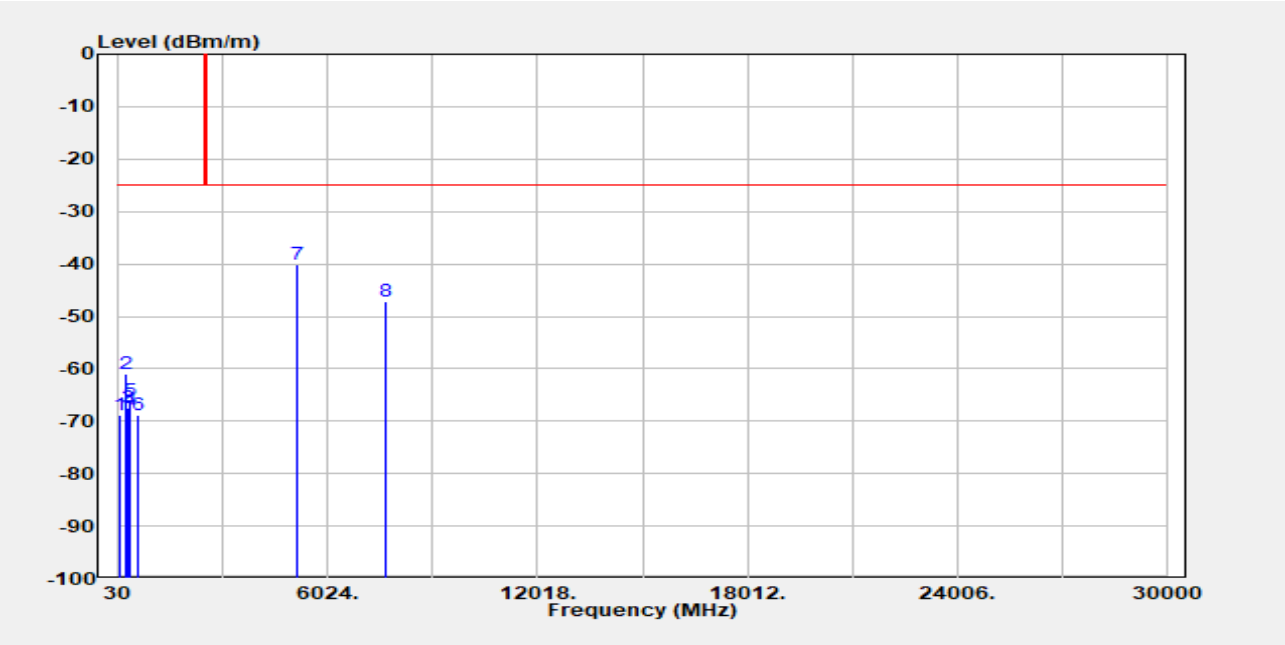
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 7C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2550.1_2564.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -68.76 | -67.35 | -0.43 | -0.98 | -25.00 | -43.76 |
| 222.38 | -61.03 | -64.56 | 5.03 | -1.50 | -25.00 | -36.03 |
| 269.27 | -67.37 | -69.87 | 4.14 | -1.64 | -25.00 | -42.37 |
| 335.55 | -67.72 | -70.10 | 4.28 | -1.90 | -25.00 | -42.72 |
| 371.12 | -66.02 | -68.37 | 4.35 | -1.99 | -25.00 | -41.02 |
| 610.38 | -68.85 | -69.84 | 3.48 | -2.50 | -25.00 | -43.85 |
| 5114.60 | -39.98 | -44.10 | 12.10 | -7.98 | -25.00 | -14.97 |
| 7671.90 | -47.14 | -48.67 | 11.39 | -9.85 | -25.00 | -22.13 |

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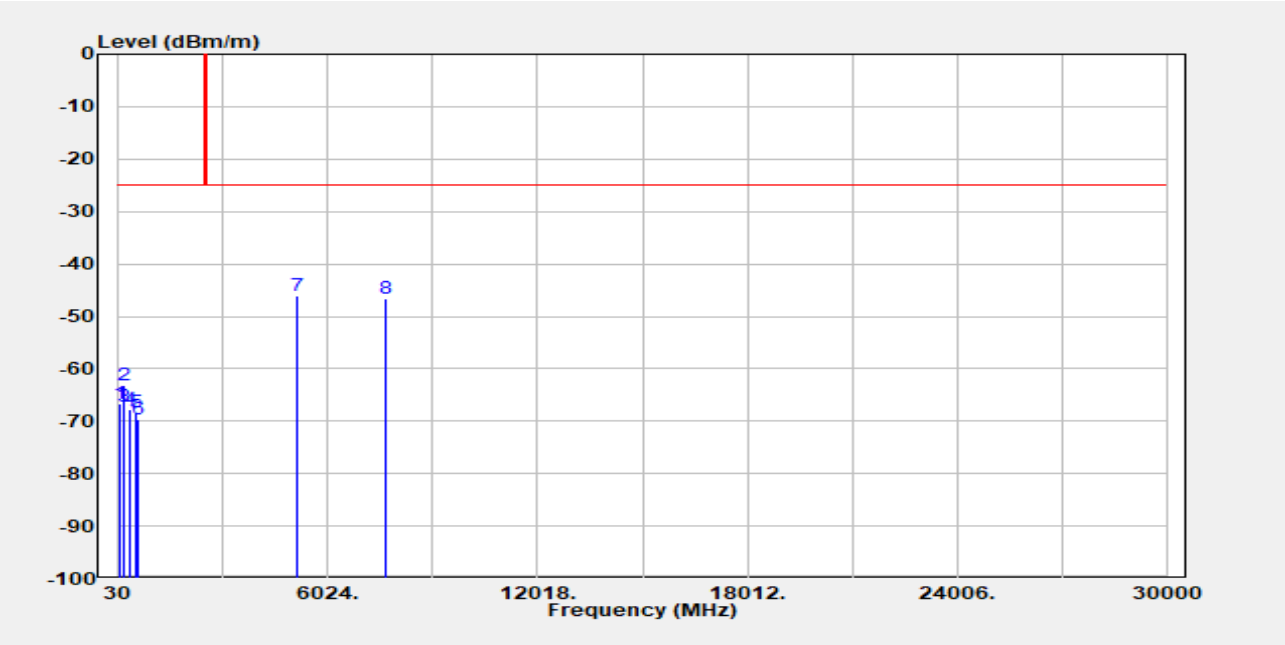
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 7C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2550.1_2564.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -66.54 | -65.13 | -0.43 | -0.98 | -25.00 | -41.54 |
| 164.18 | -63.21 | -61.08 | -0.88 | -1.26 | -25.00 | -38.21 |
| 191.67 | -67.16 | -69.22 | 3.50 | -1.43 | -25.00 | -42.16 |
| 345.25 | -67.70 | -70.18 | 4.44 | -1.97 | -25.00 | -42.70 |
| 519.85 | -68.43 | -70.33 | 4.10 | -2.20 | -25.00 | -43.43 |
| 610.38 | -69.52 | -70.51 | 3.48 | -2.50 | -25.00 | -44.52 |
| 5114.60 | -45.95 | -50.07 | 12.10 | -7.98 | -25.00 | -20.94 |
| 7671.90 | -46.61 | -48.14 | 11.39 | -9.85 | -25.00 | -21.60 |

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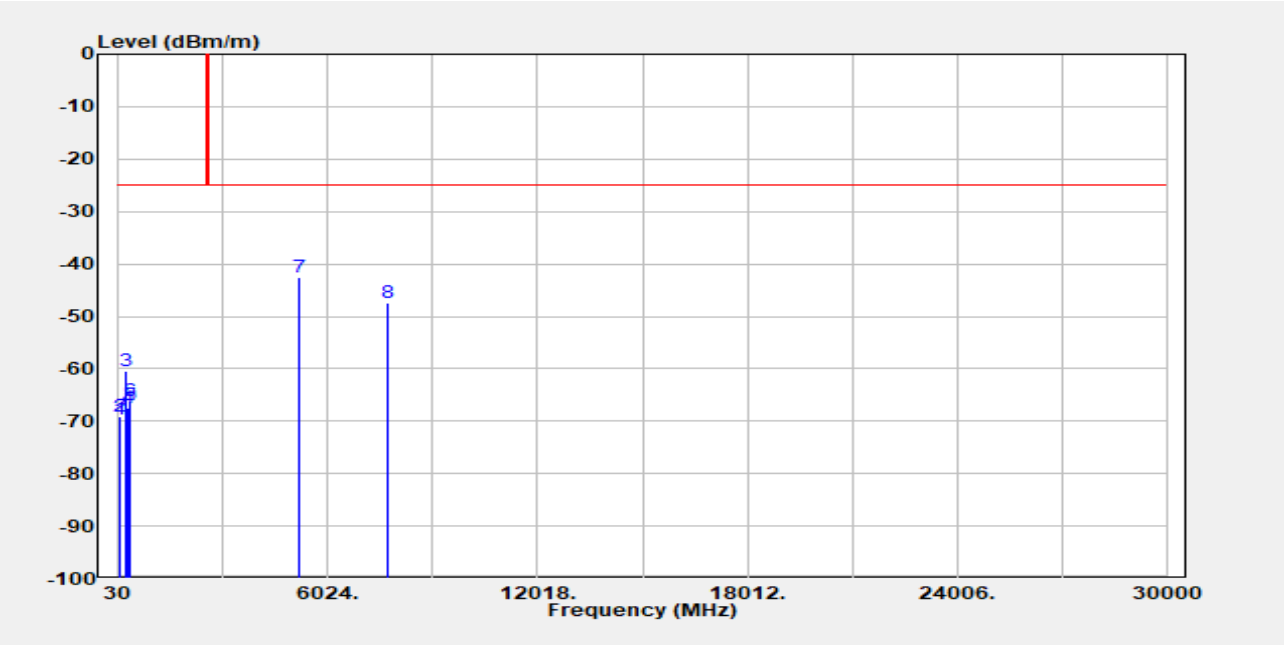
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 38C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2577.5_2592.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 62.33 | -69.60 | -60.01 | -8.83 | -0.76 | -25.00 | -44.60 |
| 89.82 | -68.99 | -67.58 | -0.43 | -0.98 | -25.00 | -43.99 |
| 222.38 | -60.47 | -63.99 | 5.03 | -1.50 | -25.00 | -35.47 |
| 269.27 | -67.52 | -70.01 | 4.14 | -1.64 | -25.00 | -42.52 |
| 335.55 | -66.81 | -69.19 | 4.28 | -1.90 | -25.00 | -41.81 |
| 371.12 | -66.24 | -68.60 | 4.35 | -1.99 | -25.00 | -41.24 |
| 5170.00 | -42.45 | -46.76 | 12.22 | -7.91 | -25.00 | -17.44 |
| 7755.00 | -47.55 | -48.74 | 11.50 | -10.31 | -25.00 | -22.54 |

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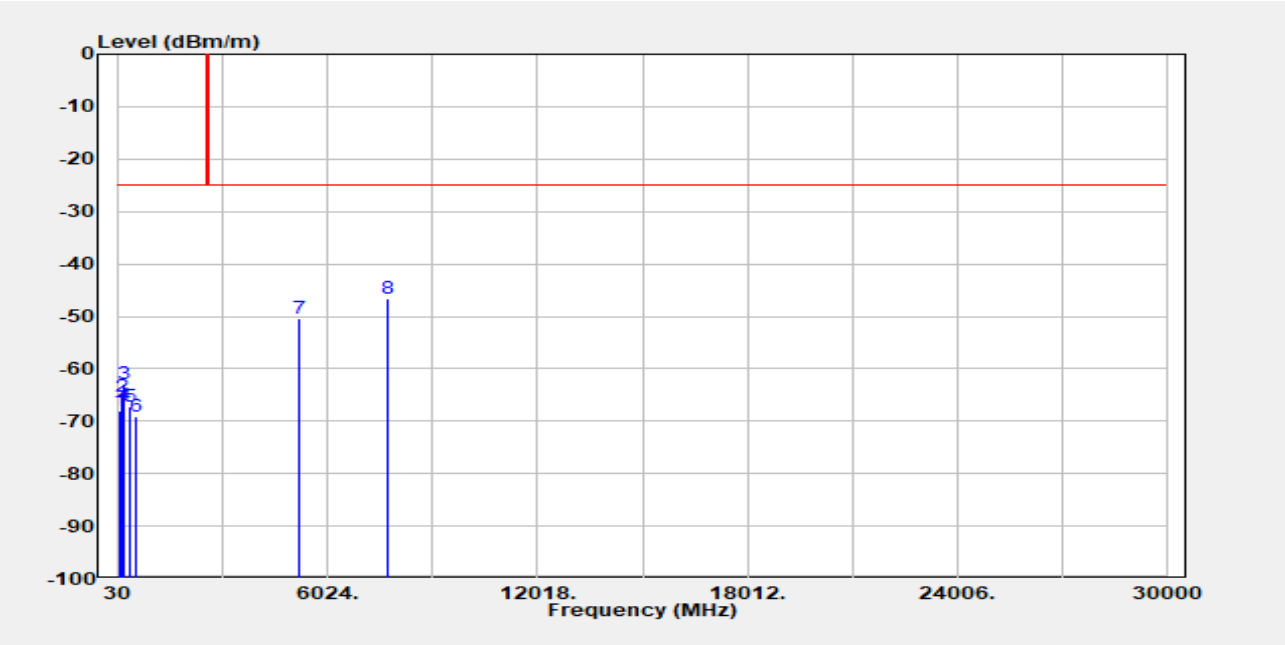
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 38C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2577.5_2592.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -68.14 | -66.73 | -0.43 | -0.98 | -25.00 | -43.14 |
| 149.63 | -65.23 | -62.46 | -1.62 | -1.15 | -25.00 | -40.23 |
| 164.18 | -62.99 | -60.86 | -0.88 | -1.26 | -25.00 | -37.99 |
| 191.67 | -66.82 | -68.89 | 3.50 | -1.43 | -25.00 | -41.82 |
| 345.25 | -67.19 | -69.67 | 4.44 | -1.97 | -25.00 | -42.19 |
| 519.85 | -68.98 | -70.88 | 4.10 | -2.20 | -25.00 | -43.98 |
| 5170.00 | -50.30 | -54.61 | 12.22 | -7.91 | -25.00 | -25.29 |
| 7755.00 | -46.70 | -47.88 | 11.50 | -10.31 | -25.00 | -21.69 |

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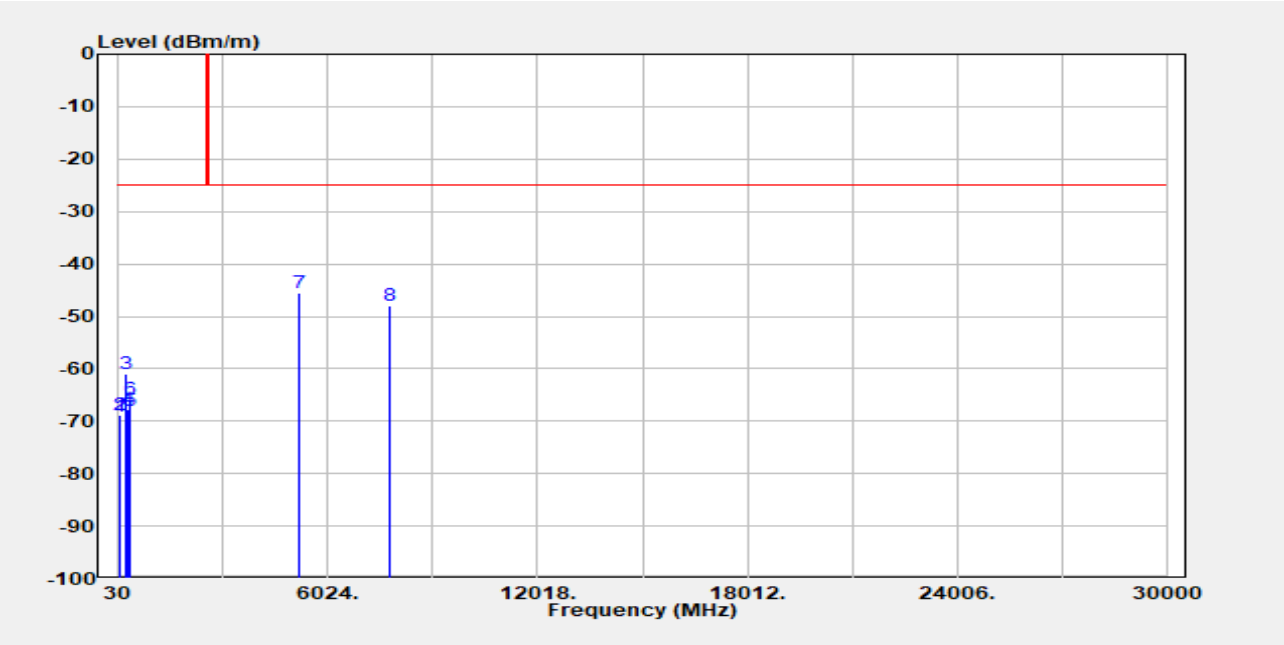
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 38C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2587.5_2602.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 62.33 | -69.07 | -59.49 | -8.83 | -0.76 | -25.00 | -44.07 |
| 89.82 | -68.73 | -67.32 | -0.43 | -0.98 | -25.00 | -43.73 |
| 222.38 | -60.92 | -64.45 | 5.03 | -1.50 | -25.00 | -35.92 |
| 269.27 | -67.67 | -70.17 | 4.14 | -1.64 | -25.00 | -42.67 |
| 348.48 | -68.04 | -70.55 | 4.52 | -2.01 | -25.00 | -43.04 |
| 371.12 | -65.85 | -68.21 | 4.35 | -1.99 | -25.00 | -40.85 |
| 5190.00 | -45.57 | -50.02 | 12.34 | -7.89 | -25.00 | -20.56 |
| 7785.00 | -47.92 | -48.90 | 11.50 | -10.51 | -25.00 | -22.91 |

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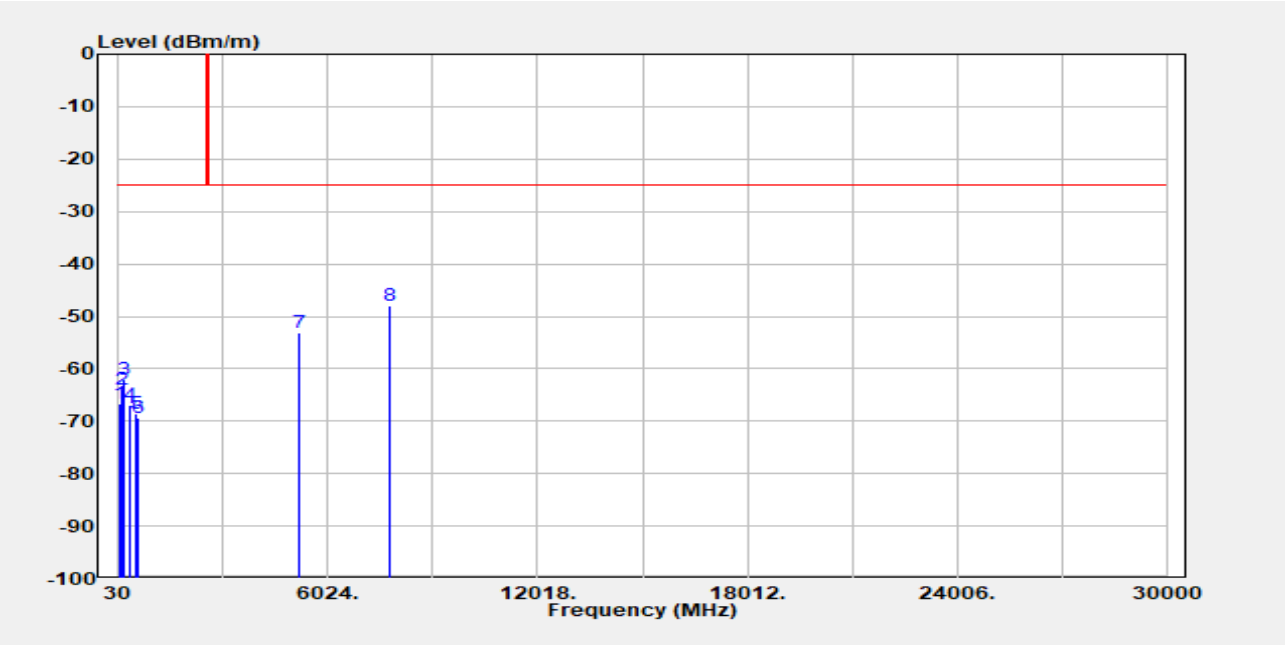
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 38C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2587.5_2602.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -66.72 | -65.31 | -0.43 | -0.98 | -25.00 | -41.72 |
| 149.63 | -64.04 | -61.27 | -1.62 | -1.15 | -25.00 | -39.04 |
| 164.18 | -62.14 | -60.01 | -0.88 | -1.26 | -25.00 | -37.14 |
| 332.32 | -66.98 | -69.33 | 4.26 | -1.91 | -25.00 | -41.98 |
| 519.85 | -68.52 | -70.42 | 4.10 | -2.20 | -25.00 | -43.52 |
| 610.38 | -69.46 | -70.45 | 3.48 | -2.50 | -25.00 | -44.46 |
| 5190.00 | -53.16 | -57.61 | 12.34 | -7.89 | -25.00 | -28.15 |
| 7785.00 | -47.85 | -48.84 | 11.50 | -10.51 | -25.00 | -22.84 |

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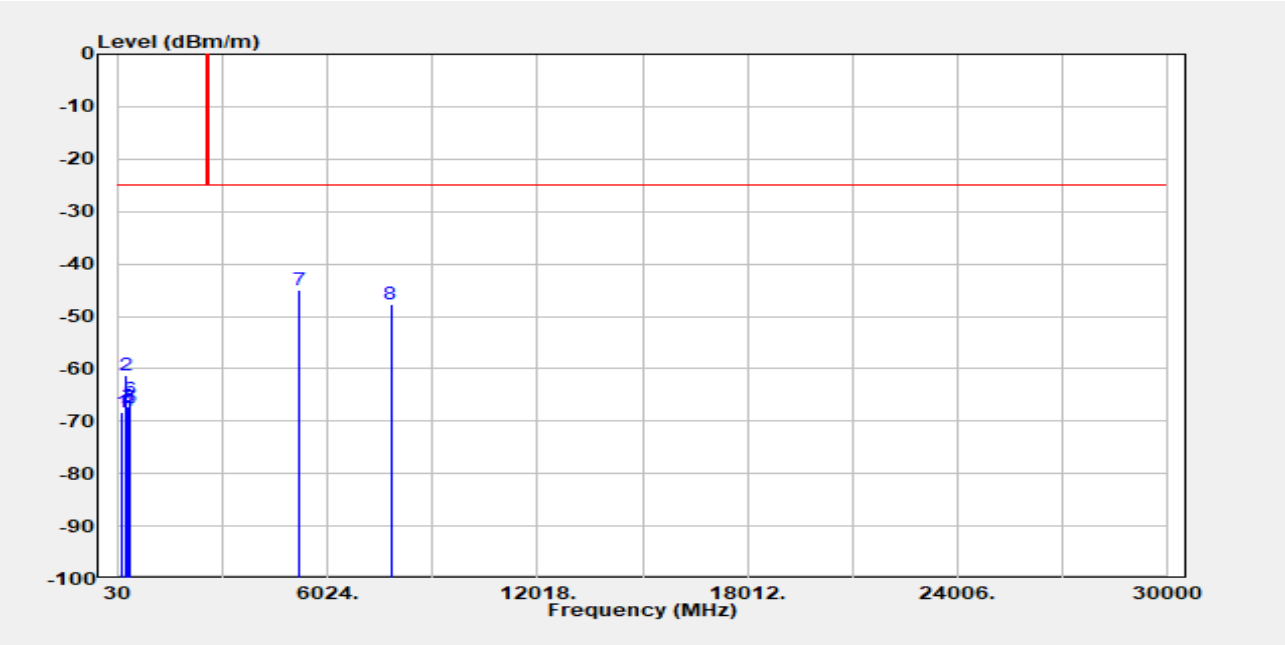
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 38C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2597.5_2612.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 101.13 | -68.23 | -66.34 | -0.88 | -1.02 | -25.00 | -43.23 |
| 222.38 | -61.13 | -64.66 | 5.03 | -1.50 | -25.00 | -36.13 |
| 269.27 | -67.25 | -69.75 | 4.14 | -1.64 | -25.00 | -42.25 |
| 296.75 | -68.03 | -70.39 | 4.13 | -1.77 | -25.00 | -43.03 |
| 335.55 | -67.42 | -69.80 | 4.28 | -1.90 | -25.00 | -42.42 |
| 371.12 | -65.84 | -68.20 | 4.35 | -1.99 | -25.00 | -40.84 |
| 5210.00 | -44.97 | -49.54 | 12.48 | -7.91 | -25.00 | -19.96 |
| 7815.00 | -47.81 | -48.64 | 11.44 | -10.61 | -25.00 | -22.80 |

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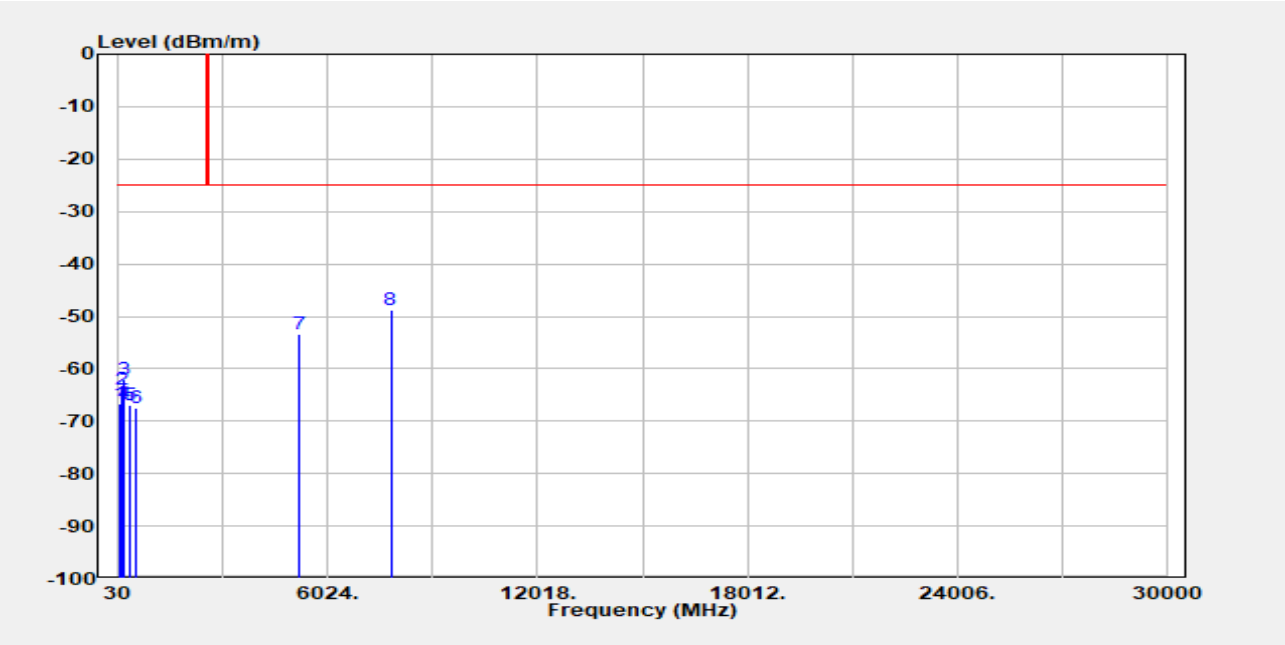
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 38C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2597.5_2612.5 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -66.72 | -65.31 | -0.43 | -0.98 | -25.00 | -41.72 |
| 149.63 | -64.04 | -61.27 | -1.62 | -1.15 | -25.00 | -39.04 |
| 164.18 | -62.14 | -60.01 | -0.88 | -1.26 | -25.00 | -37.14 |
| 181.97 | -66.57 | -67.06 | 1.87 | -1.39 | -25.00 | -41.57 |
| 332.32 | -66.98 | -69.33 | 4.26 | -1.91 | -25.00 | -41.98 |
| 519.85 | -67.56 | -69.46 | 4.10 | -2.20 | -25.00 | -42.56 |
| 5210.00 | -53.33 | -57.90 | 12.48 | -7.91 | -25.00 | -28.32 |
| 7815.00 | -48.75 | -49.58 | 11.44 | -10.61 | -25.00 | -23.74 |

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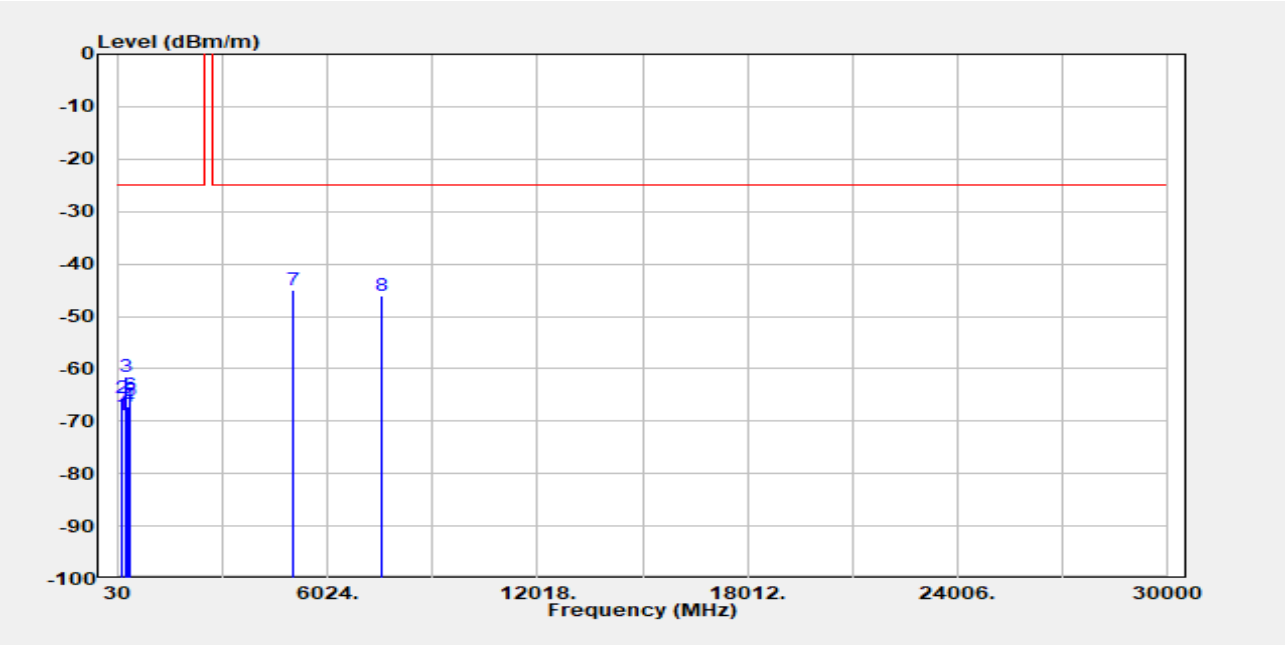
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 41C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2506_2523.1 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 107.60 | -68.71 | -66.24 | -1.42 | -1.04 | -25.00 | -43.71 |
| 149.63 | -65.48 | -62.71 | -1.62 | -1.15 | -25.00 | -40.48 |
| 222.38 | -61.48 | -65.01 | 5.03 | -1.50 | -25.00 | -36.48 |
| 269.27 | -67.24 | -69.74 | 4.14 | -1.64 | -25.00 | -42.24 |
| 335.55 | -66.08 | -68.46 | 4.28 | -1.90 | -25.00 | -41.08 |
| 371.12 | -65.13 | -67.48 | 4.35 | -1.99 | -25.00 | -40.13 |
| 5029.10 | -44.98 | -49.66 | 12.27 | -7.59 | -25.00 | -19.97 |
| 7543.65 | -46.03 | -47.76 | 11.09 | -9.36 | -25.00 | -21.02 |

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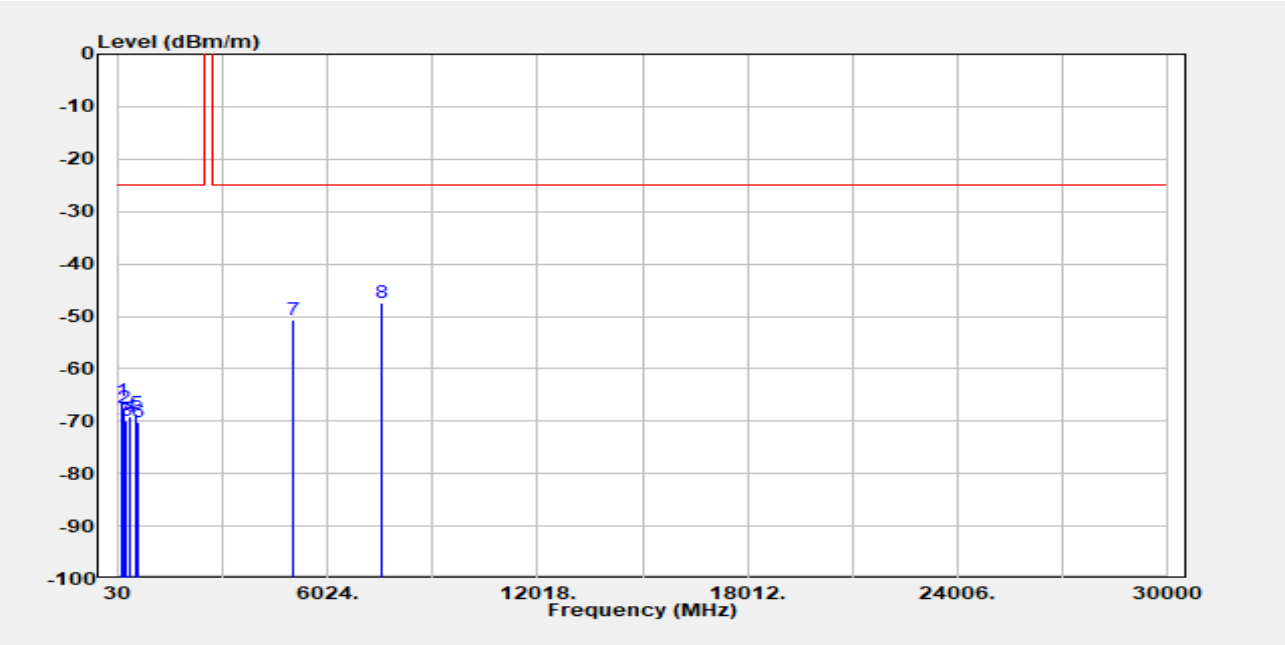
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 41C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Low | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2506_2523.1 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 149.63 | -66.19 | -63.42 | -1.62 | -1.15 | -25.00 | -41.19 |
| 164.18 | -67.57 | -65.43 | -0.88 | -1.26 | -25.00 | -42.57 |
| 240.17 | -69.86 | -72.63 | 4.38 | -1.61 | -25.00 | -44.86 |
| 345.25 | -69.18 | -71.66 | 4.44 | -1.97 | -25.00 | -44.18 |
| 519.85 | -68.66 | -70.56 | 4.10 | -2.20 | -25.00 | -43.66 |
| 610.38 | -70.31 | -71.30 | 3.48 | -2.50 | -25.00 | -45.31 |
| 5029.10 | -50.81 | -55.49 | 12.27 | -7.59 | -25.00 | -25.80 |
| 7543.65 | -47.42 | -49.14 | 11.09 | -9.36 | -25.00 | -22.41 |

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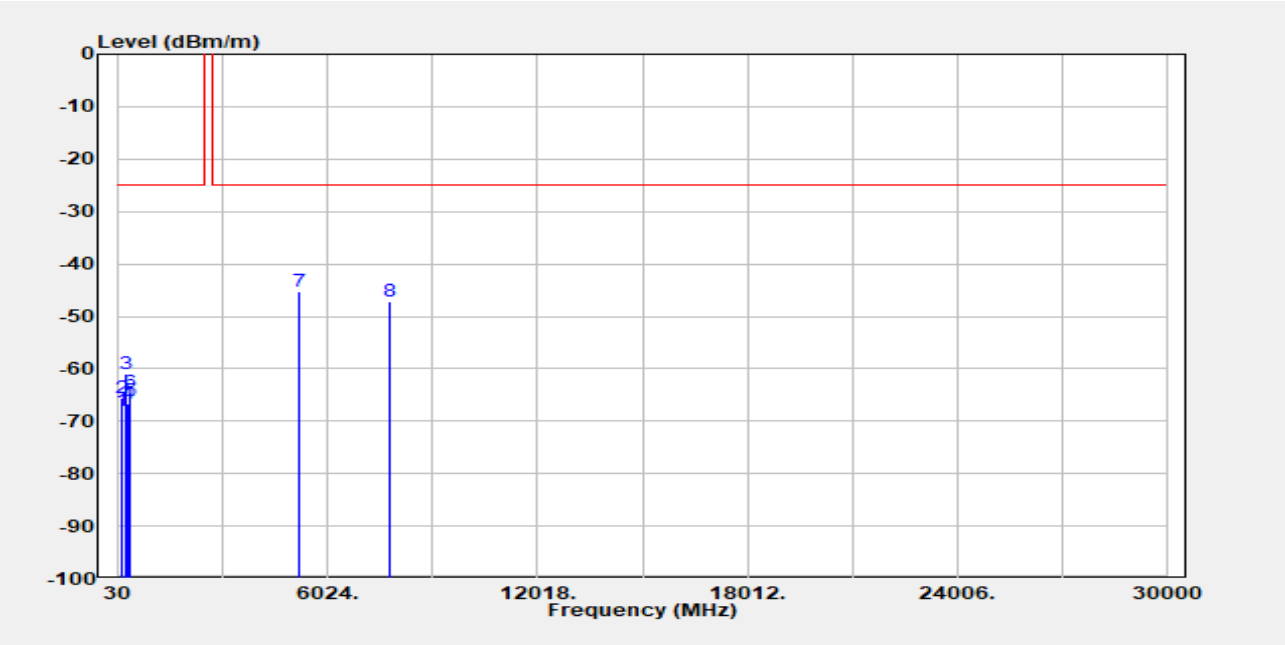
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 41C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2585.6_2602.7 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 107.60 | -68.12 | -65.66 | -1.42 | -1.04 | -25.00 | -43.12 |
| 149.63 | -65.48 | -62.71 | -1.62 | -1.15 | -25.00 | -40.48 |
| 222.38 | -60.92 | -64.44 | 5.03 | -1.50 | -25.00 | -35.92 |
| 269.27 | -66.79 | -69.29 | 4.14 | -1.64 | -25.00 | -41.79 |
| 335.55 | -66.08 | -68.46 | 4.28 | -1.90 | -25.00 | -41.08 |
| 371.12 | -64.46 | -66.82 | 4.35 | -1.99 | -25.00 | -39.46 |
| 5188.30 | -45.30 | -49.74 | 12.33 | -7.89 | -25.00 | -20.29 |
| 7782.45 | -47.04 | -48.05 | 11.50 | -10.50 | -25.00 | -22.03 |

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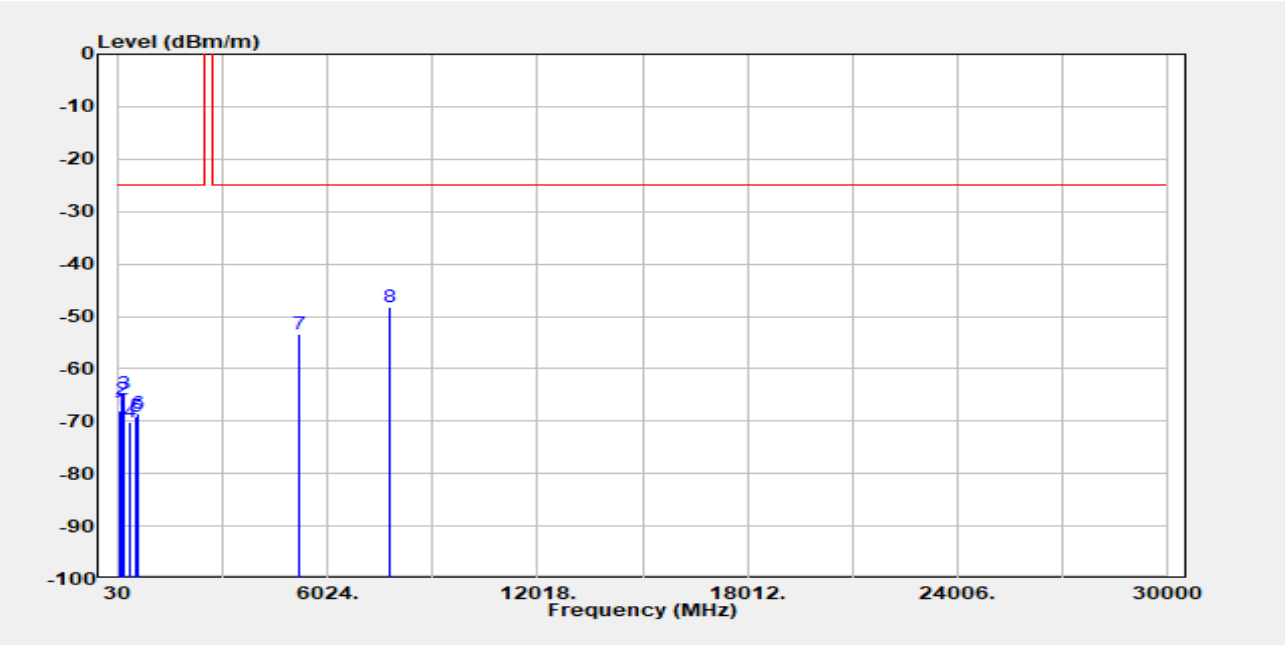
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 41C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2585.6_2602.7 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -68.13 | -66.72 | -0.43 | -0.98 | -25.00 | -43.13 |
| 149.63 | -65.97 | -63.20 | -1.62 | -1.15 | -25.00 | -40.97 |
| 164.18 | -64.90 | -62.77 | -0.88 | -1.26 | -25.00 | -39.90 |
| 335.55 | -70.25 | -72.63 | 4.28 | -1.90 | -25.00 | -45.25 |
| 519.85 | -69.18 | -71.08 | 4.10 | -2.20 | -25.00 | -44.18 |
| 610.38 | -68.59 | -69.57 | 3.48 | -2.50 | -25.00 | -43.59 |
| 5188.30 | -53.38 | -57.82 | 12.33 | -7.89 | -25.00 | -28.37 |
| 7782.45 | -48.33 | -49.33 | 11.50 | -10.50 | -25.00 | -23.32 |

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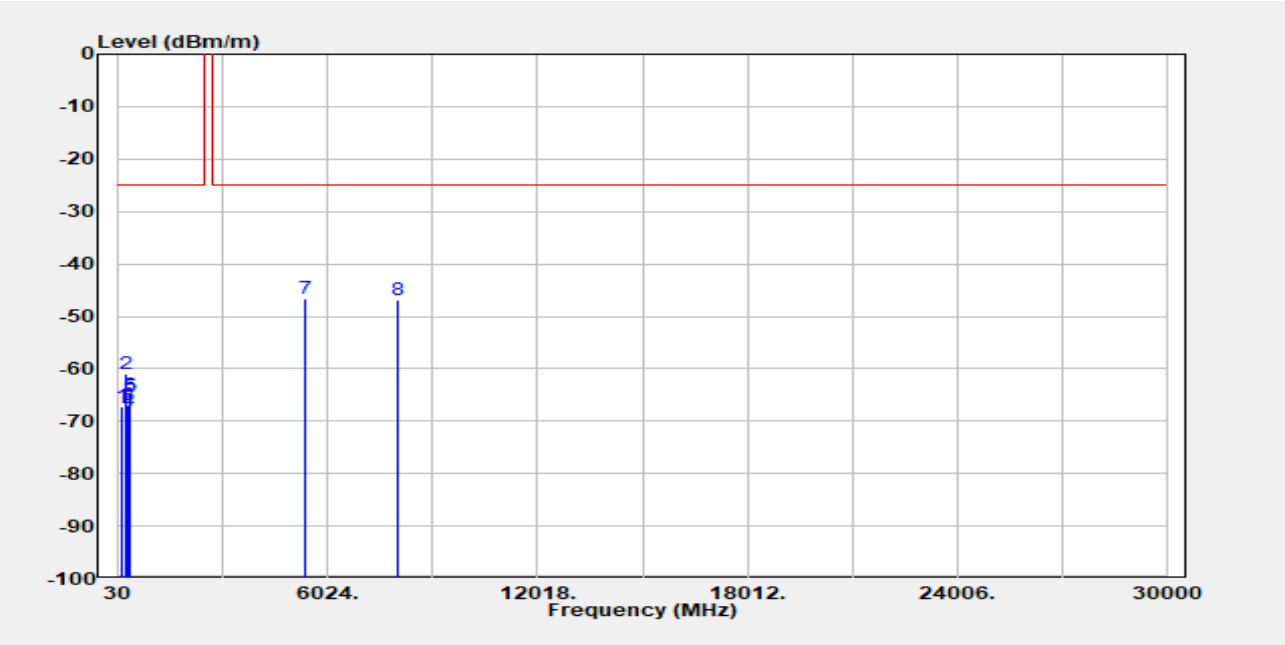
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 41C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Vertical |
| Test Frequency | :2665.1_2682.2 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 149.63 | -67.27 | -64.51 | -1.62 | -1.15 | -25.00 | -42.27 |
| 222.38 | -61.05 | -64.58 | 5.03 | -1.50 | -25.00 | -36.05 |
| 269.27 | -66.84 | -69.34 | 4.14 | -1.64 | -25.00 | -41.84 |
| 296.75 | -68.01 | -70.37 | 4.13 | -1.77 | -25.00 | -43.01 |
| 335.55 | -65.35 | -67.73 | 4.28 | -1.90 | -25.00 | -40.35 |
| 371.12 | -65.16 | -67.52 | 4.35 | -1.99 | -25.00 | -40.16 |
| 5347.30 | -46.63 | -50.93 | 13.00 | -8.71 | -25.00 | -21.62 |
| 8020.95 | -46.89 | -47.07 | 11.00 | -10.82 | -25.00 | -21.88 |

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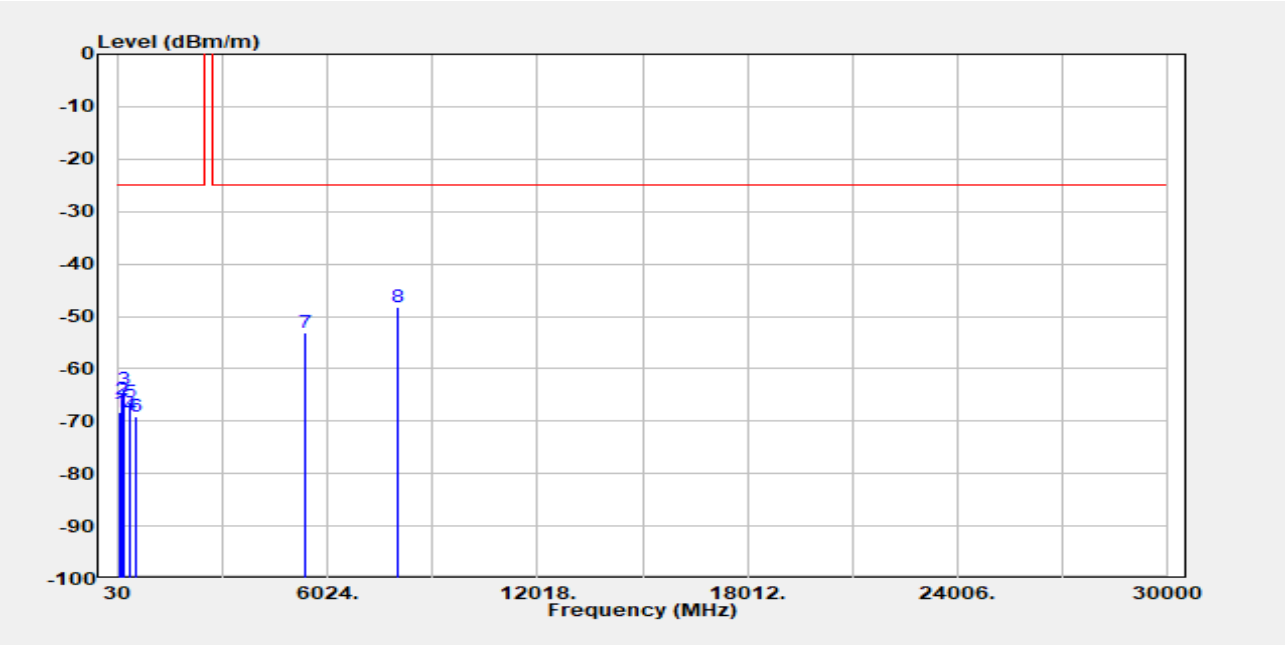
| | | | |
|---|---|---|---|
| Report Number | :ER/2021/A0030 | Test Site | :SAC 1 |
| Operation Mode | :ULCA 41C | Test Date | :2021-11-12 |
| Test Mode | :Tx CH High | Temp./Humi. | :23.8/53 |
| EUT Pol | :H Plane | Antenna Pol. | :Horizontal |
| Test Frequency | :2665.1_2682.2 MHz | Engineer | :GN Lin |




| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|
| 89.82 | -68.36 | -66.95 | -0.43 | -0.98 | -25.00 | -43.36 |
| 149.63 | -65.85 | -63.09 | -1.62 | -1.15 | -25.00 | -40.85 |
| 164.18 | -63.94 | -61.81 | -0.88 | -1.26 | -25.00 | -38.94 |
| 335.55 | -68.96 | -71.34 | 4.28 | -1.90 | -25.00 | -43.96 |
| 348.48 | -66.48 | -68.99 | 4.52 | -2.01 | -25.00 | -41.48 |
| 519.85 | -69.12 | -71.02 | 4.10 | -2.20 | -25.00 | -44.12 |
| 5347.30 | -53.23 | -57.53 | 13.00 | -8.71 | -25.00 | -28.22 |
| 8020.95 | -48.11 | -48.29 | 11.00 | -10.82 | -25.00 | -23.10 |

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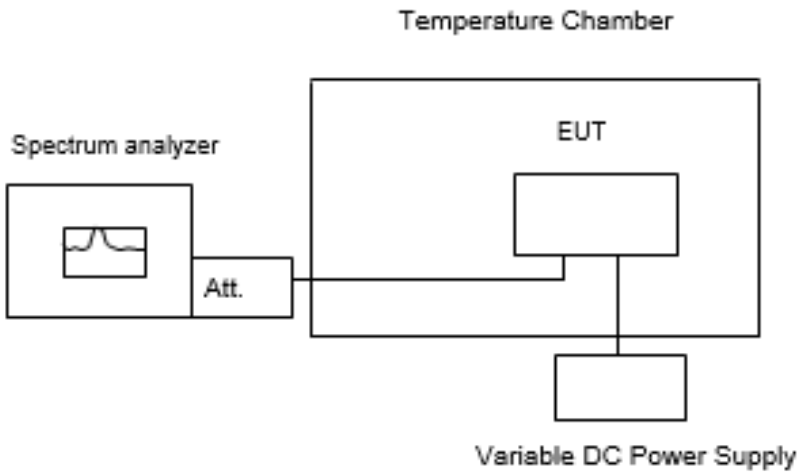
# 11 FREQUENCY STABILITY MEASUREMENT

## 11.1 Standard Applicabl

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 25°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 25℃. 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.

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## 11.4 Measurement Result

| Reference Freq.: | LTE CA B5: Mid Channel (MHz) | | 836.5 |
|---|---|---|---|
| | Channel Bandwidth: | | 10MHz+10MHz |
| Power Supply Vdc | Temp. (℃) | Frequency (MHz) | Frequency Error (ppm) |
| **Freq. ERROR vs. VOLTAGE** | | | |
| 3.795 | 25 | 836.499991 | -0.0108 |
| 3.3 | 25 | 836.499993 | -0.0084 |
| 2.805 | 25 | 836.500006 | 0.0072 |
| 2.4 (End Point) | 25 | 836.499996 | -0.0011 |
| **Freq. ERROR vs. Temp.** | | | |
| 3.3 | -30 | 836.500005 | 5.0000 |
| 3.3 | -20 | 836.500002 | 2.0000 |
| 3.3 | -10 | 836.499991 | -9.0000 |
| 3.3 | 0 | 836.500001 | 1.0000 |
| 3.3 | 10 | 836.499998 | -2.0000 |
| 3.3 | 20 | 836.500007 | 7.0000 |
| 3.3 | 30 | 836.500010 | 10.0000 |
| 3.3 | 40 | 836.500008 | 8.0000 |
| 3.3 | 50 | 836.499995 | -5.0000 |

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| Reference Freq.: | LTE CAB7: Mid Channel (MHz) | | 2535 |
|---|---|---|---|
| | Channel Bandwidth: | | 20MHz+20MHz |
| Power Supply Vdc | Temp. (℃) | Frequency (MHz) | Frequency Error (ppm) |
| **Freq. ERROR vs. VOLTAGE** | | | |
| 3.795 | 25 | 2534.999995 | -0.0020 |
| 3.3 | 25 | 2535.000011 | 0.0043 |
| 2.805 | 25 | 2534.999996 | -0.0016 |
| 2.4 (End Point) | 25 | 2535.000009 | 0.0036 |
| **Freq. ERROR vs. Temp.** | | | |
| 3.3 | -30 | 2534.999996 | -4.0000 |
| 3.3 | -20 | 2535.000007 | 7.0000 |
| 3.3 | -10 | 2534.999990 | -10.0000 |
| 3.3 | 0 | 2535.000002 | 2.0000 |
| 3.3 | 10 | 2534.999995 | -5.0000 |
| 3.3 | 20 | 2534.999992 | -8.0000 |
| 3.3 | 30 | 2534.999999 | -1.0000 |
| 3.3 | 40 | 2534.999995 | -5.0000 |
| 3.3 | 50 | 2534.999993 | -7.0000 |

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| Reference Freq.: | LTE CA B38: Mid Channel (MHz) | | 2595 |
|---|---|---|---|
| | Channel Bandwidth: | | 20MHz+20MHz |
| Power Supply Vdc | Temp. (℃) | Frequency (MHz) | Frequency Error (ppm) |
| **Freq. ERROR vs. VOLTAGE** | | | |
| 3.795 | 25 | 2595.000009 | 0.0035 |
| 3.3 | 25 | 2594.999993 | -0.0027 |
| 2.805 | 25 | 2594.999992 | -0.0031 |
| 2.4 (End Point) | 25 | 2595.000003 | 0.0012 |
| **Freq. ERROR vs. Temp.** | | | |
| 3.3 | -30 | 2595.000011 | 11.0000 |
| 3.3 | -20 | 2595.000007 | 7.0000 |
| 3.3 | -10 | 2595.000003 | 3.0000 |
| 3.3 | 0 | 2595.000008 | 8.0000 |
| 3.3 | 10 | 2594.999991 | -9.0000 |
| 3.3 | 20 | 2595.000002 | 2.0000 |
| 3.3 | 30 | 2594.999989 | -11.0000 |
| 3.3 | 40 | 2595.000003 | 3.0000 |
| 3.3 | 50 | 2594.999996 | -4.0000 |

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| Reference Freq.: | LTE CA B41: Mid Channel (MHz) | | 2593 |
|---|---|---|---|
| | Channel Bandwidth: | | 20MHz+20MHz |
| Power Supply Vdc | Temp. (℃) | Frequency (MHz) | Frequency Error (ppm) |
| **Freq. ERROR vs. VOLTAGE** | | | |
| 3.795 | 25 | 2592.999993 | -0.0027 |
| 3.3 | 25 | 2593.000010 | 0.0039 |
| 2.805 | 25 | 2593.000006 | 0.0023 |
| 2.4 (End Point) | 25 | 2593.000008 | 0.0031 |
| **Freq. ERROR vs. Temp.** | | | |
| 3.3 | -30 | 2592.999991 | -9.0000 |
| 3.3 | -20 | 2593.000011 | 11.0000 |
| 3.3 | -10 | 2593.000008 | 8.0000 |
| 3.3 | 0 | 2592.999997 | -3.0000 |
| 3.3 | 10 | 2593.000006 | 6.0000 |
| 3.3 | 20 | 2593.000010 | 10.0000 |
| 3.3 | 30 | 2592.999993 | -7.0000 |
| 3.3 | 40 | 2592.999992 | -8.0000 |
| 3.3 | 50 | 2592.999989 | -11.0000 |

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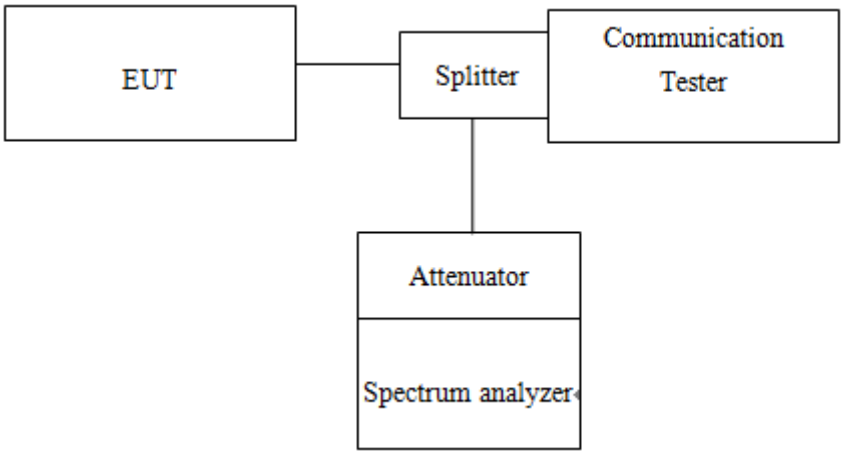
# 12 PEAK TO AVERAGE RATIO

## 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

### LTE BAND 5

| Band | Bandwidth | RB Allocation/RB Offset | Freqency (MHz) | PAPR (dB) | |
|---|---|---|---|---|---|
| | | | | 64QAM | Limit |
| LTE BAND 5 | 5MHz + 10MHz | 25/0 + 50/0 | 836.5 | **7.46** | **13** |
| LTE BAND 5 | 10MHz + 5MHz | 50/0 + 25/0 | 836.5 | **7.63** | **13** |
| LTE BAND 5 | 10MHz + 10MHz | 50/0 + 50/0 | 836.5 | **6.38** | **13** |

### LTE BAND 7

| Band | Bandwidth | RB Allocation/RB Offset | Freqency (MHz) | PAPR (dB) | |
|---|---|---|---|---|---|
| | | | | 64QAM | Limit |
| LTE BAND 7 | 10MHz + 20MHz | 50/0 + 100/0 | 2535.0 | **7.19** | **13** |
| LTE BAND 7 | 20MHz + 10MHz | 100/0 + 50/0 | 2535.0 | **7.14** | **13** |
| LTE BAND 7 | 15MHz + 15MHz | 75/0 + 75/0 | 2535.0 | **6.94** | **13** |
| LTE BAND 7 | 15MHz + 20MHz | 75/0 + 100/0 | 2535.0 | **8.04** | **13** |
| LTE BAND 7 | 20MHz + 15MHz | 100/0 + 75/0 | 2535.0 | **7.980** | **13** |
| LTE BAND 7 | 20MHz + 20MHz | 100/0 + 100/0 | 2535.0 | **7.260** | **13** |

### LTE BAND 38

| Band | Bandwidth | RB Allocation/RB Offset | Freqency (MHz) | PAPR (dB) | |
|---|---|---|---|---|---|
| | | | | 64QAM | Limit |
| LTE BAND 38 | 15MHz + 15MHz | 75/0 + 75/0 | 2595.0 | **10.61** | **13** |
| LTE BAND 38 | 20MHz + 20MHz | 100/0 + 100/0 | 2595.0 | **10.16** | **13** |

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## LTE BAND 41

| Band | Bandwidth | RB Allocation/RB Offset | Freqency (MHz) | PAPR (dB) | |
|---|---|---|---|---|---|
| | | | | 64QAM | Limit |
| LTE BAND 41 | 5MHz + 20MHz | 25/0 + 100/0 | 2593.0 | **11.860** | **13** |
| LTE BAND 41 | 20MHz + 5MHz | 100/0 + 25/0 | 2593.0 | **11.300** | **13** |
| LTE BAND 41 | 10MHz + 20MHz | 50/0 + 100/0 | 2593.0 | **7.250** | **13** |
| LTE BAND 41 | 20MHz + 10MHz | 100/0 + 50/0 | 2593.0 | **11.580** | **13** |
| LTE BAND 41 | 15MHz + 15MHz | 75/0 + 75/0 | 2593.0 | **11.720** | **13** |
| LTE BAND 41 | 15MHz + 20MHz | 75/0 + 100/0 | 2593.0 | **8.040** | **13** |
| LTE BAND 41 | 20MHz + 15MHz | 100/0 + 75/0 | 2593.0 | **8.040** | **13** |
| LTE BAND 41 | 20MHz + 20MHz | 100/0 + 100/0 | 2593.0 | **10.600** | **13** |

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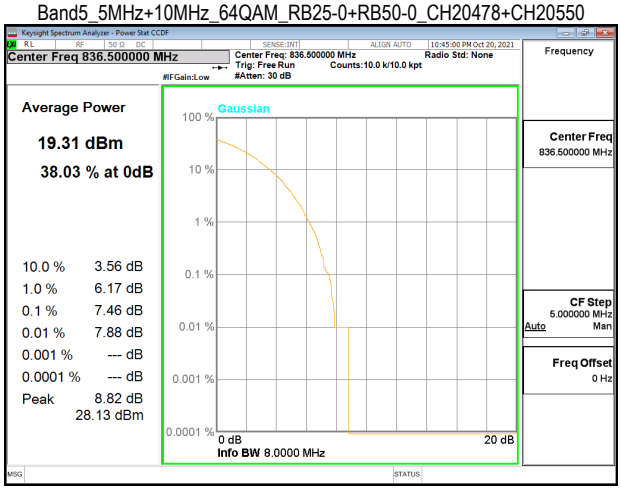
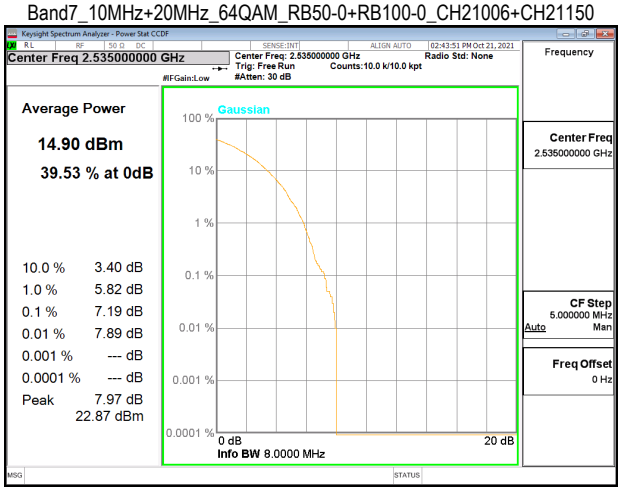
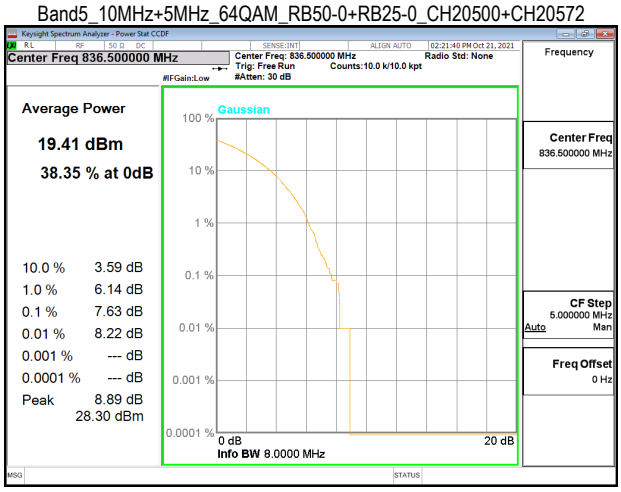
Band5_5MHz+10MHz_64QAM_RB25-0+RB50-0_CH20478+CH20550



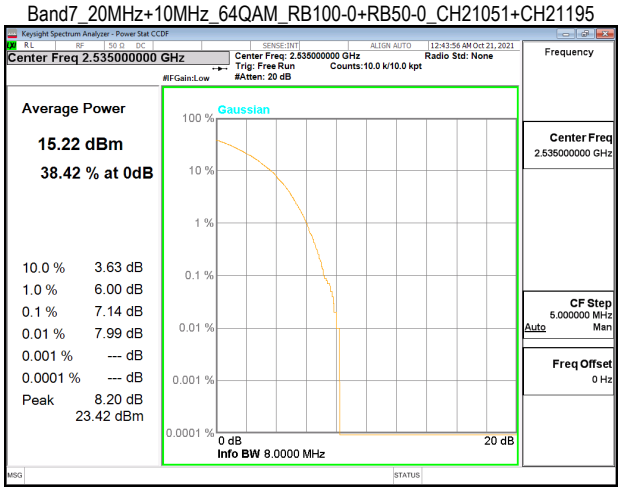

Band7_10MHz+20MHz_64QAM_RB50-0+RB100-0_CH21006+CH21150



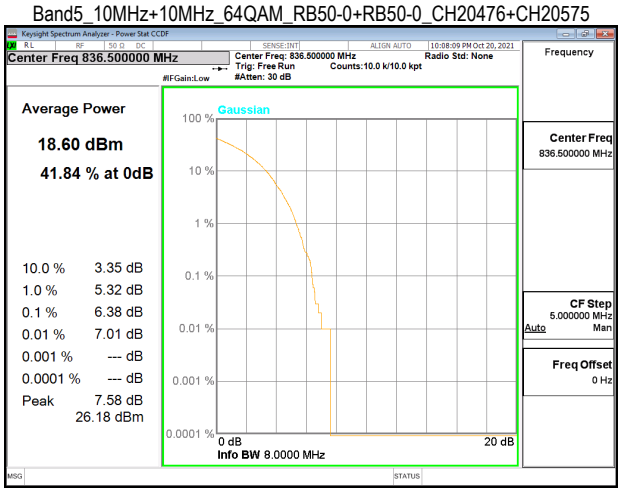

Band5_10MHz+5MHz_64QAM_RB50-0+RB25-0_CH20500+CH20572



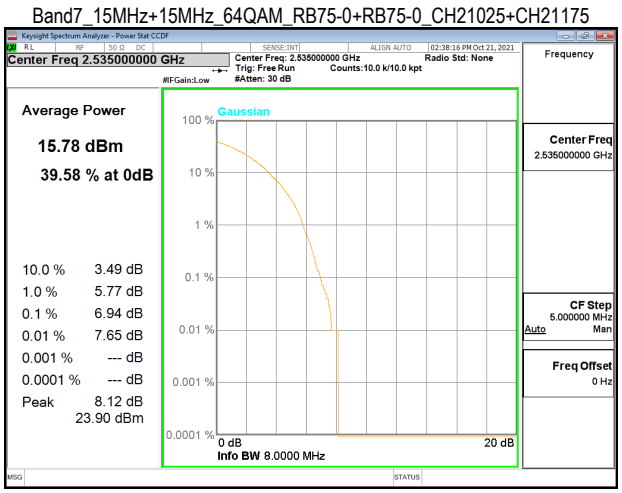

Band7_20MHz+10MHz_64QAM_RB100-0+RB50-0_CH21051+CH21195




Band5_10MHz+10MHz_64QAM_RB50-0+RB50-0_CH20476+CH20575




Band7_15MHz+15MHz_64QAM_RB75-0+RB75-0_CH21025+CH21175

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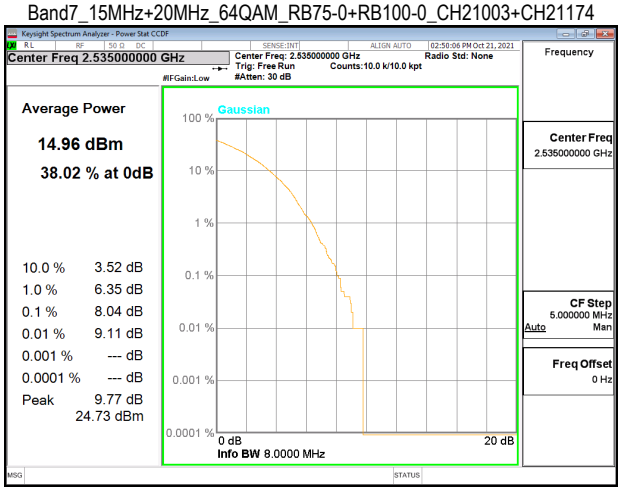
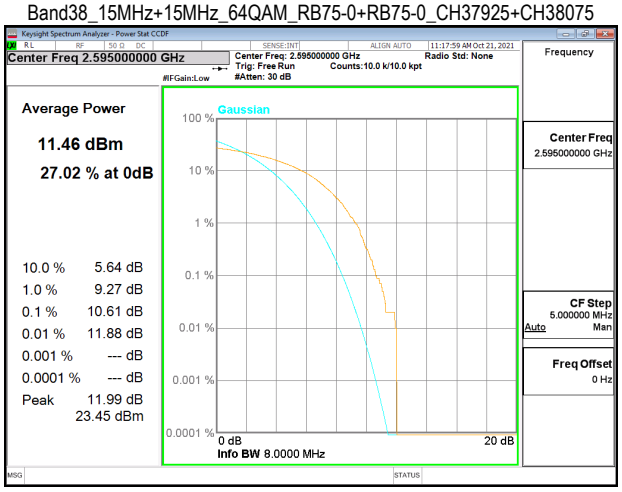
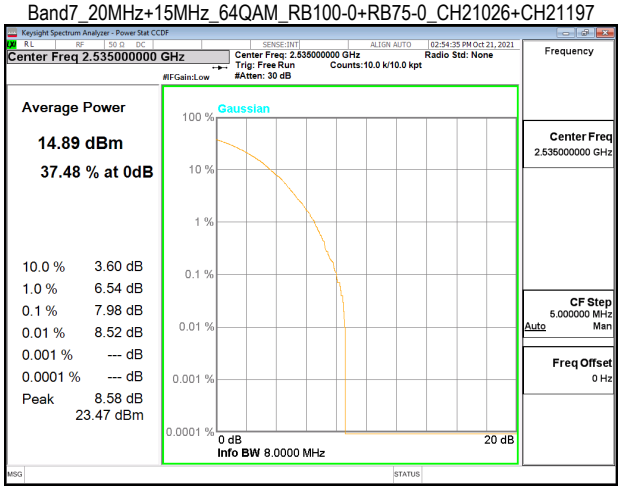
Band7_15MHz+20MHz_64QAM_RB75-0+RB100-0_CH21003+CH21174



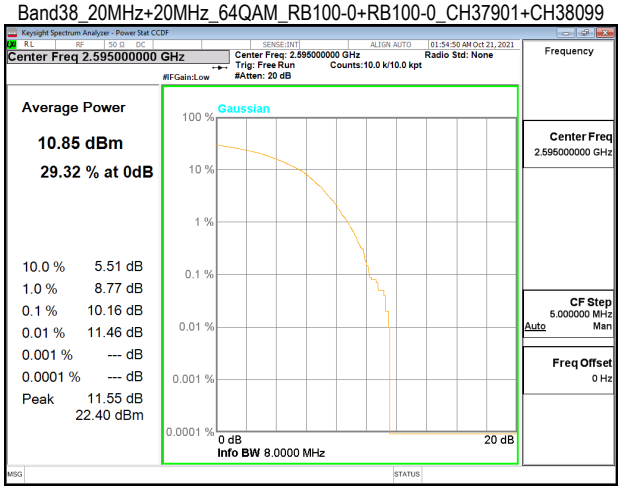

Band38_15MHz+15MHz_64QAM_RB75-0+RB75-0_CH37925+CH38075



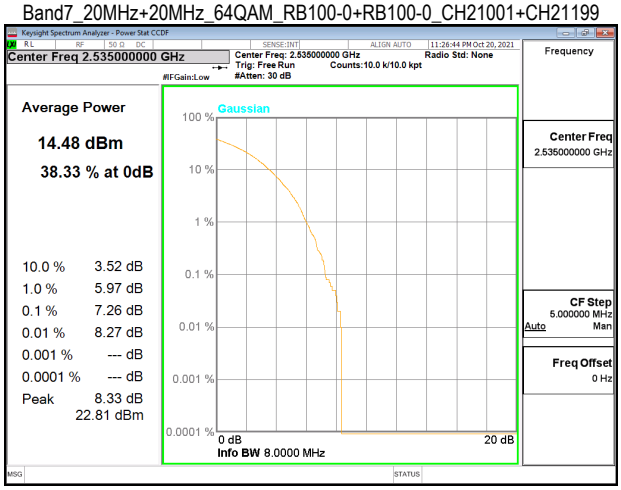

Band7_20MHz+15MHz_64QAM_RB100-0+RB75-0_CH21026+CH21197



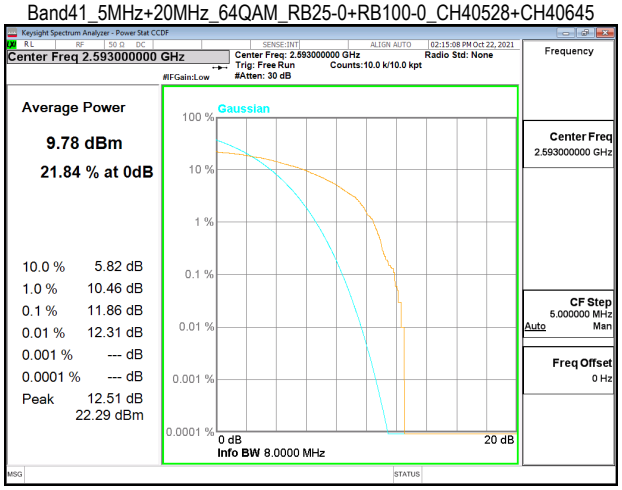

Band38_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH37901+CH38099




Band7_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH21001+CH21199




Band41_5MHz+20MHz_64QAM_RB25-0+RB100-0_CH40528+CH40645

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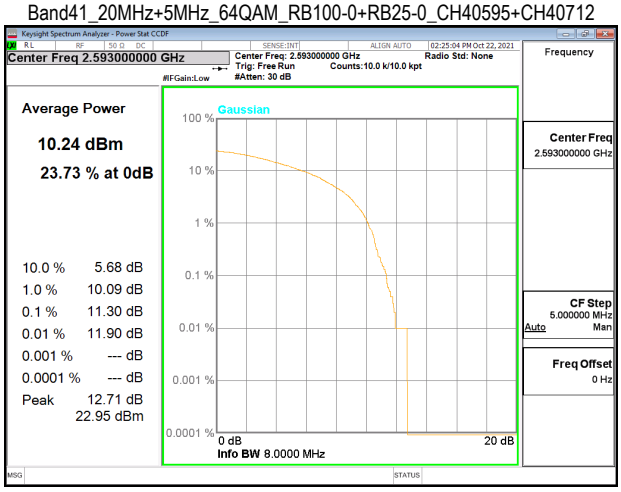
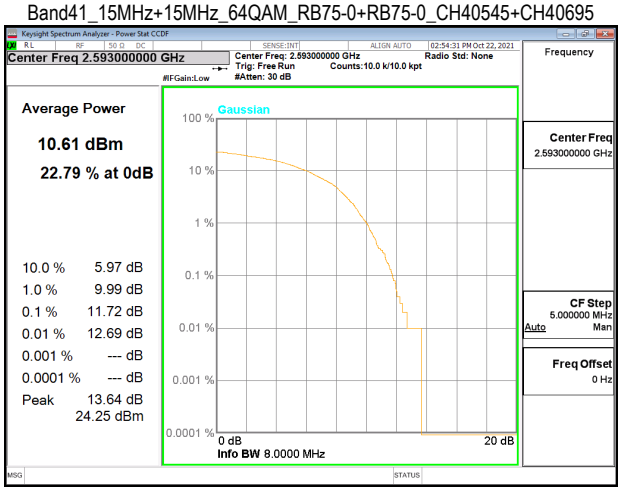
Band41_20MHz+5MHz_64QAM_RB100-0+RB25-0_CH40595+CH40712




Band41_15MHz+15MHz_64QAM_RB75-0+RB75-0_CH40545+CH40695

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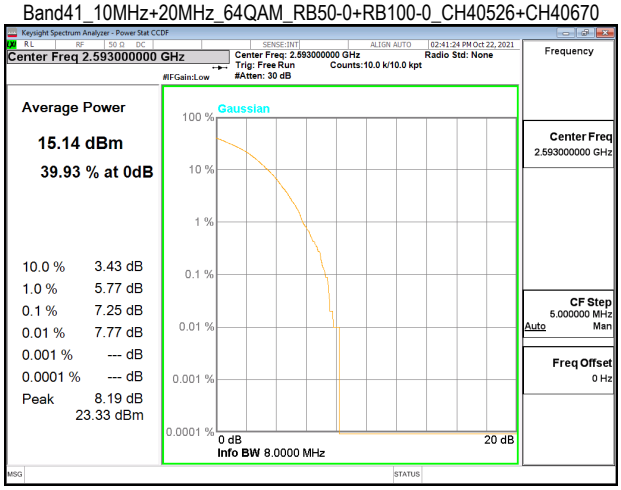
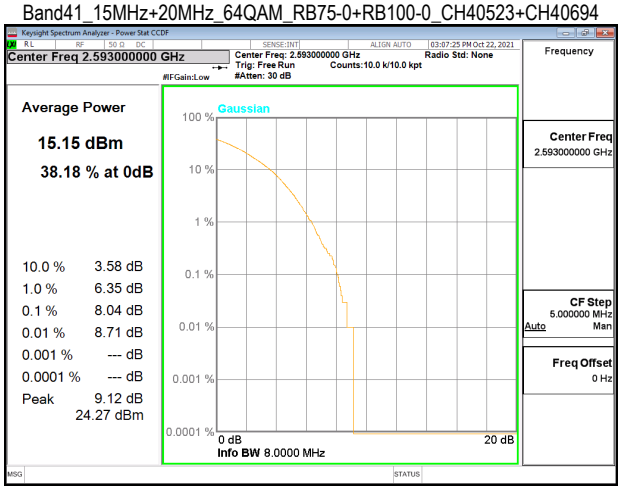
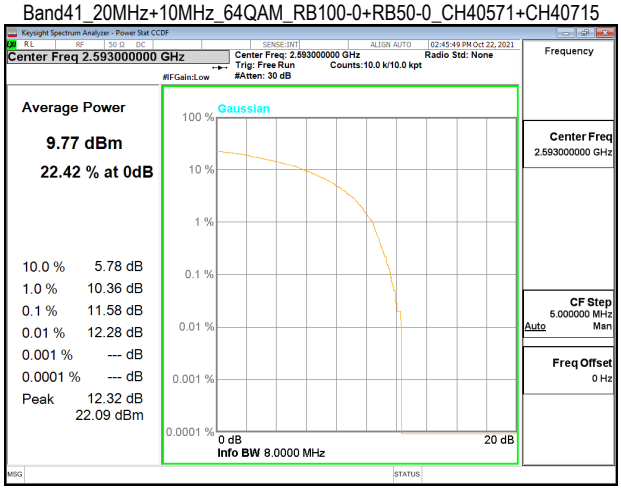


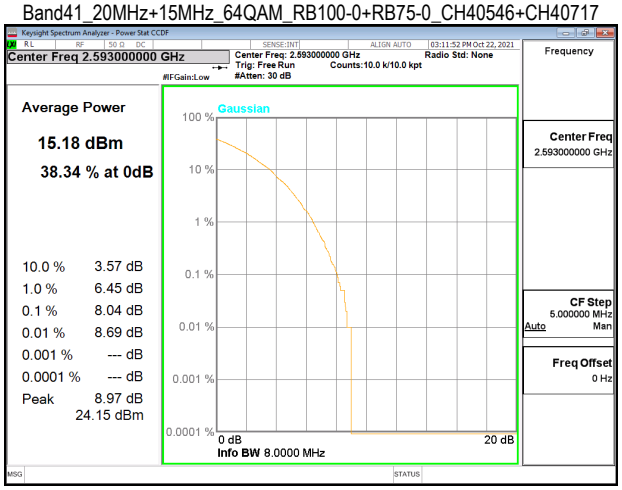

Band41_15MHz+20MHz_64QAM_RB75-0+RB100-0_CH40523+CH40694




Band41_20MHz+10MHz_64QAM_RB100-0+RB50-0_CH40571+CH40715




Band41_20MHz+15MHz_64QAM_RB100-0+RB75-0_CH40546+CH40717

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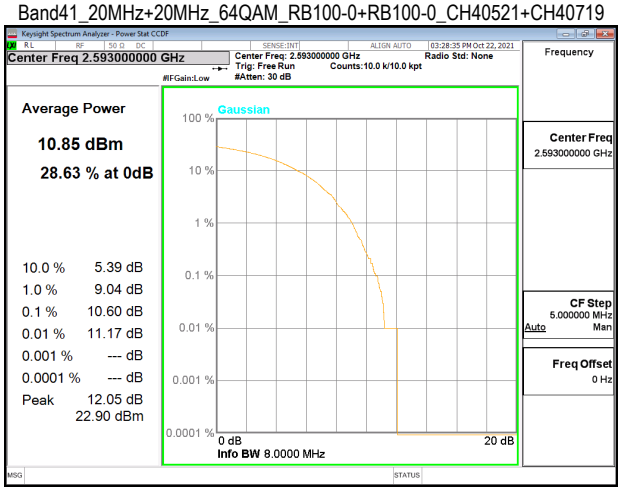
Band41_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH40521+CH40719

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