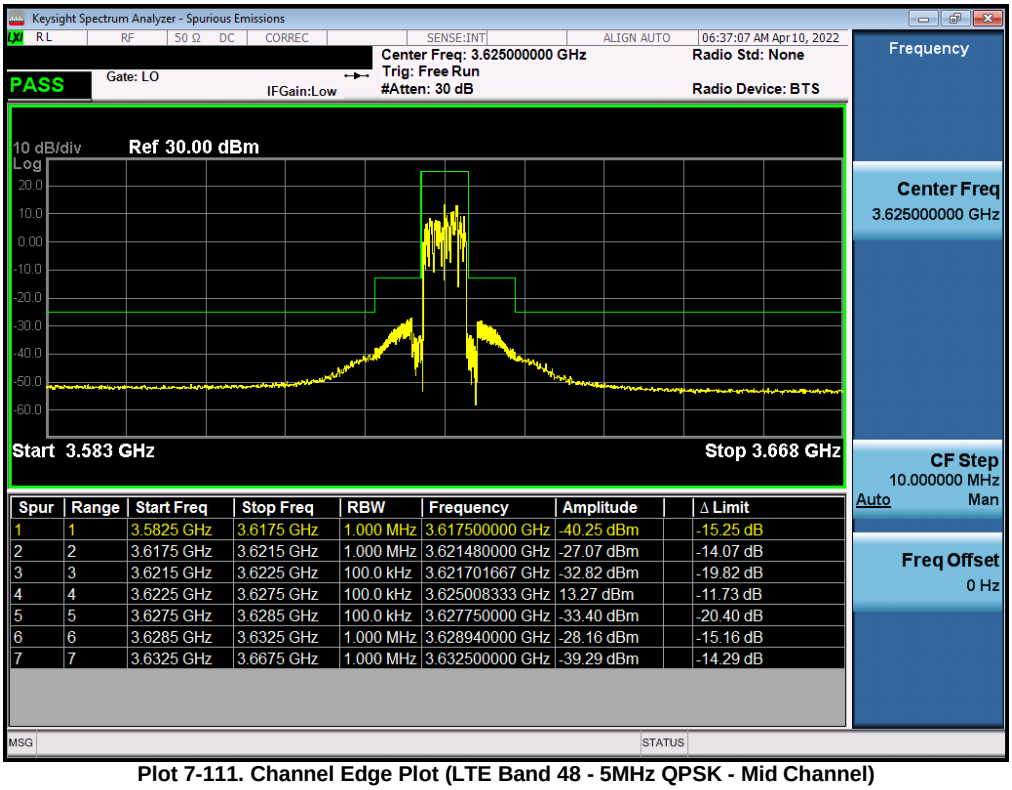
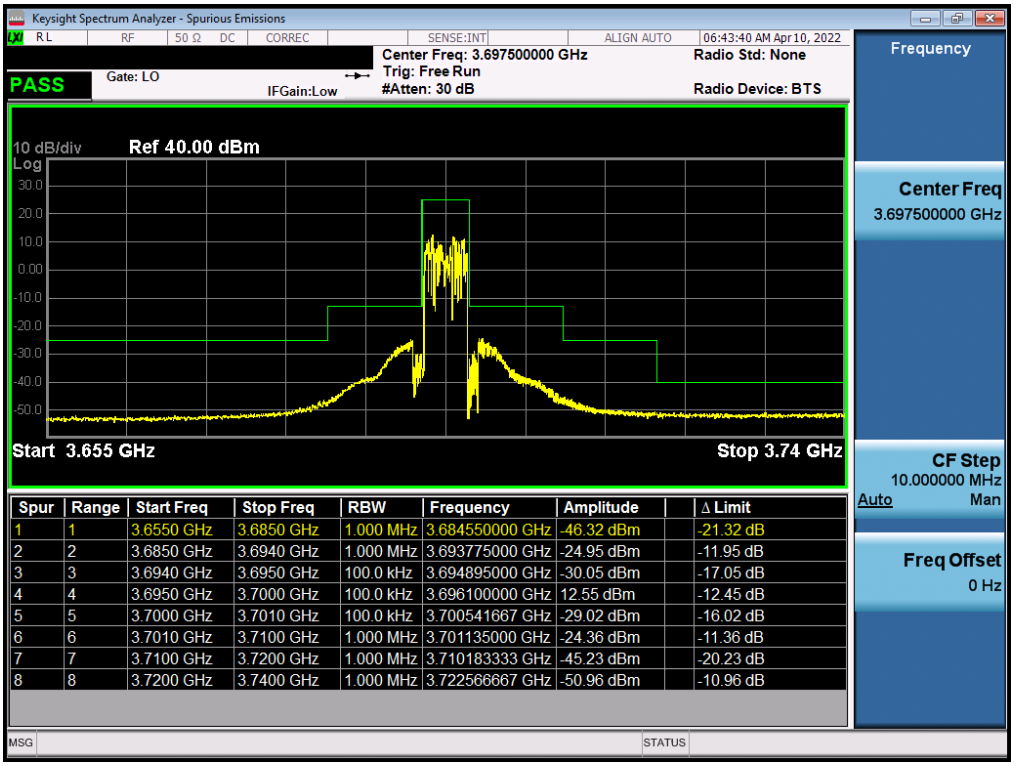


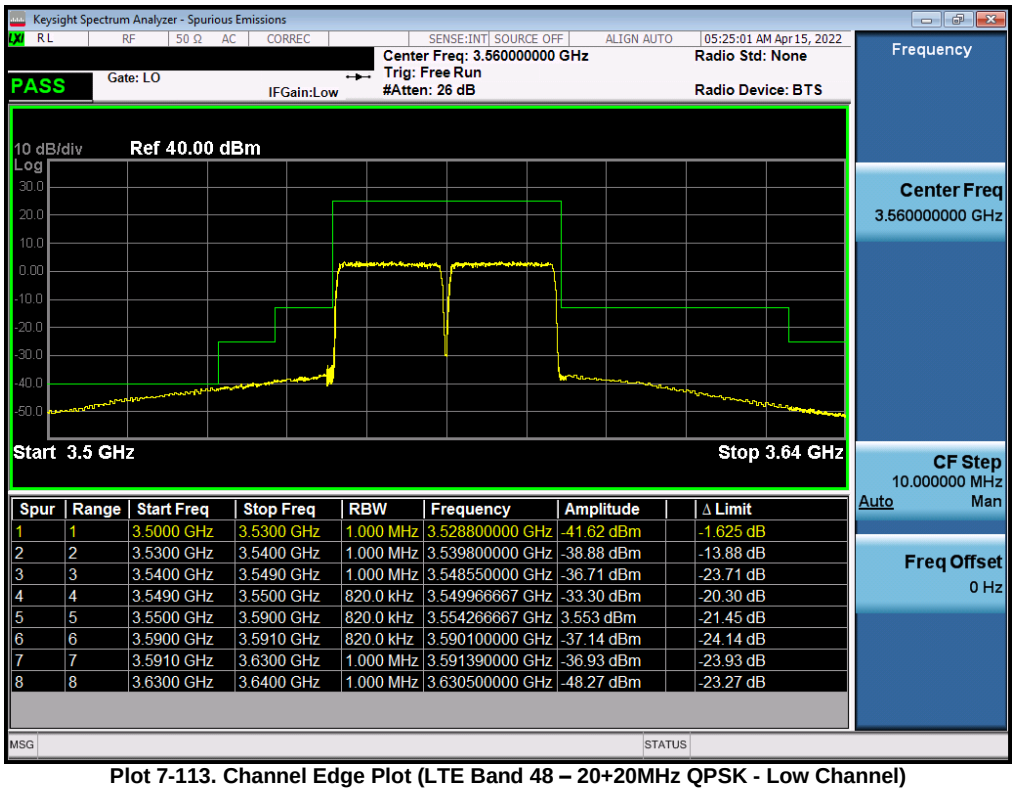
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5825 GHz	3.6175 GHz	1.000 MHz	3.617500000 GHz	-40.25 dBm	-15.25 dB
2	2	3.6175 GHz	3.6215 GHz	1.000 MHz	3.621480000 GHz	-27.07 dBm	-14.07 dB
3	3	3.6215 GHz	3.6225 GHz	100.0 kHz	3.621701667 GHz	-32.82 dBm	-19.82 dB
4	4	3.6225 GHz	3.6275 GHz	100.0 kHz	3.625008333 GHz	13.27 dBm	-11.73 dB
5	5	3.6275 GHz	3.6285 GHz	100.0 kHz	3.627750000 GHz	-33.40 dBm	-20.40 dB
6	6	3.6285 GHz	3.6325 GHz	1.000 MHz	3.628940000 GHz	-28.16 dBm	-15.16 dB
7	7	3.6325 GHz	3.6675 GHz	1.000 MHz	3.632500000 GHz	-39.29 dBm	-14.29 dB

Plot 7-111. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Mid Channel)



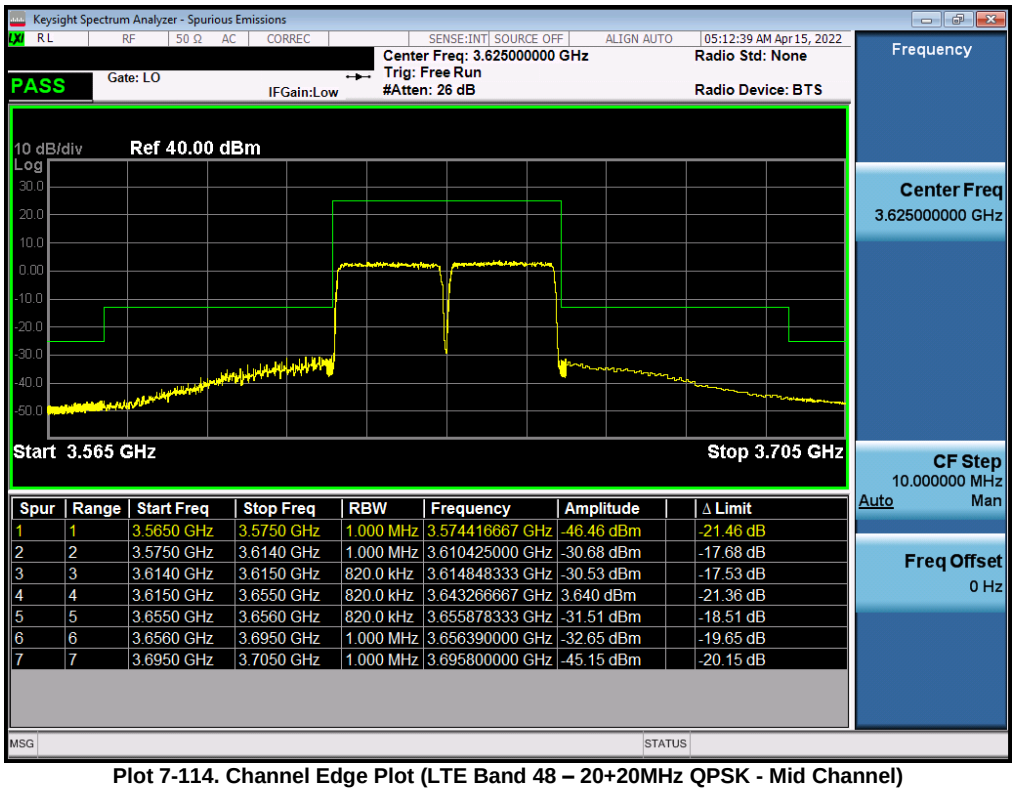
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6550 GHz	3.6850 GHz	1.000 MHz	3.684550000 GHz	-46.32 dBm	-21.32 dB
2	2	3.6850 GHz	3.6940 GHz	1.000 MHz	3.693775000 GHz	-24.95 dBm	-11.95 dB
3	3	3.6940 GHz	3.6950 GHz	100.0 kHz	3.694895000 GHz	-30.05 dBm	-17.05 dB
4	4	3.6950 GHz	3.7000 GHz	100.0 kHz	3.696100000 GHz	12.55 dBm	-12.45 dB
5	5	3.7000 GHz	3.7010 GHz	100.0 kHz	3.700541667 GHz	-29.02 dBm	-16.02 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701135000 GHz	-24.36 dBm	-11.36 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710183333 GHz	-45.23 dBm	-20.23 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.722566667 GHz	-50.96 dBm	-10.96 dB

Plot 7-112. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - High Channel)



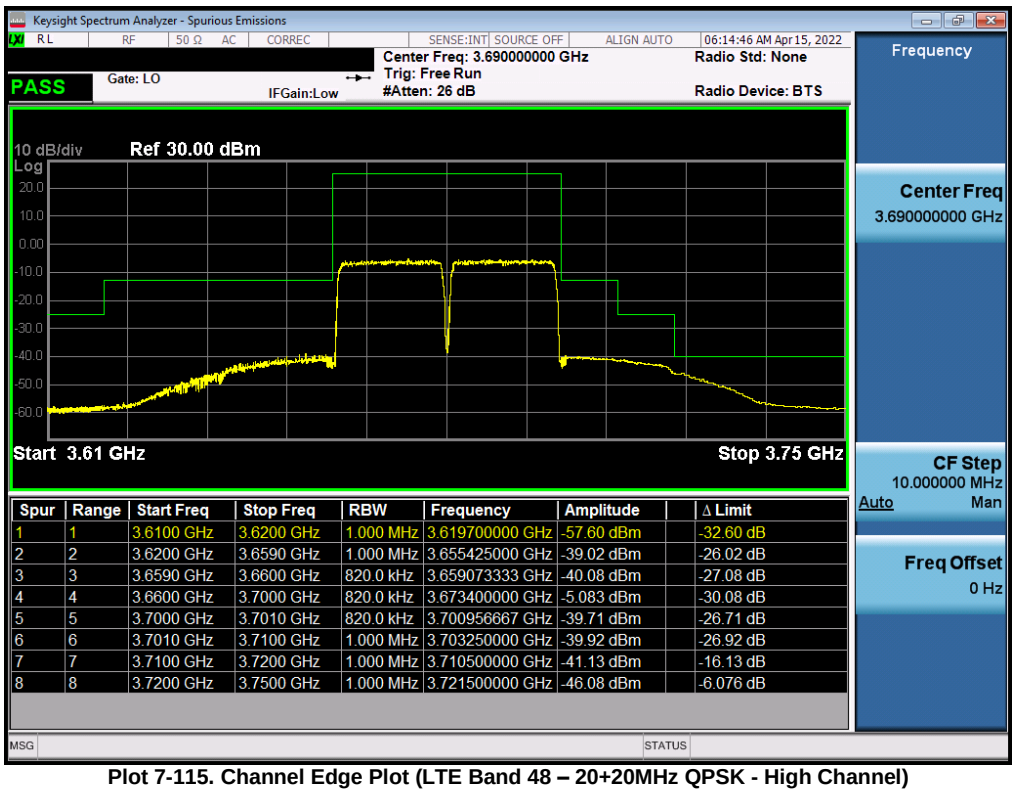
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528800000 GHz	-41.62 dBm	-1.625 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539800000 GHz	-38.88 dBm	-13.88 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548550000 GHz	-36.71 dBm	-23.71 dB
4	4	3.5490 GHz	3.5500 GHz	820.0 kHz	3.549966667 GHz	-33.30 dBm	-20.30 dB
5	5	3.5500 GHz	3.5900 GHz	820.0 kHz	3.554266667 GHz	3.553 dBm	-21.45 dB
6	6	3.5900 GHz	3.5910 GHz	820.0 kHz	3.590100000 GHz	-37.14 dBm	-24.14 dB
7	7	3.5910 GHz	3.6300 GHz	1.000 MHz	3.591390000 GHz	-36.93 dBm	-23.93 dB
8	8	3.6300 GHz	3.6400 GHz	1.000 MHz	3.630500000 GHz	-48.27 dBm	-23.27 dB

Plot 7-113. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Low Channel)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5650 GHz	3.5750 GHz	1.000 MHz	3.574416667 GHz	-46.46 dBm	-21.46 dB
2	2	3.5750 GHz	3.6140 GHz	1.000 MHz	3.610425000 GHz	-30.68 dBm	-17.68 dB
3	3	3.6140 GHz	3.6150 GHz	820.0 kHz	3.614848333 GHz	-30.53 dBm	-17.53 dB
4	4	3.6150 GHz	3.6550 GHz	820.0 kHz	3.643266667 GHz	3.640 dBm	-21.36 dB
5	5	3.6550 GHz	3.6560 GHz	820.0 kHz	3.655878333 GHz	-31.51 dBm	-18.51 dB
6	6	3.6560 GHz	3.6950 GHz	1.000 MHz	3.656390000 GHz	-32.65 dBm	-19.65 dB
7	7	3.6950 GHz	3.7050 GHz	1.000 MHz	3.695800000 GHz	-45.15 dBm	-20.15 dB

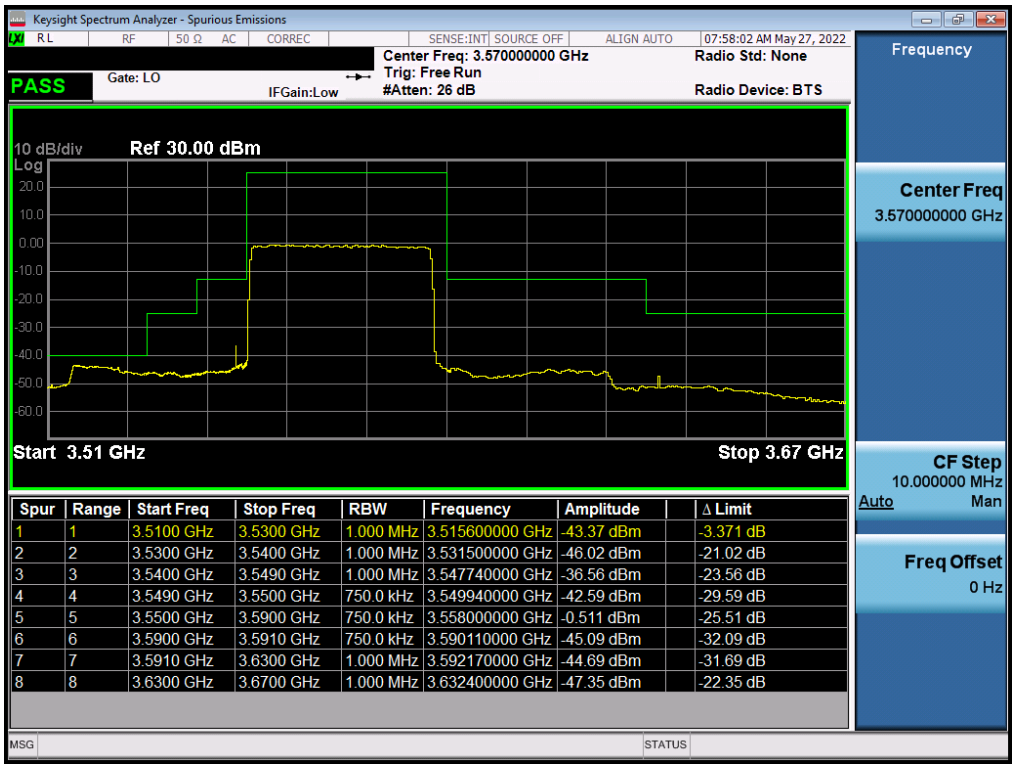
Plot 7-114. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Mid Channel)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6100 GHz	3.6200 GHz	1.000 MHz	3.619700000 GHz	-57.60 dBm	-32.60 dB
2	2	3.6200 GHz	3.6590 GHz	1.000 MHz	3.655425000 GHz	-39.02 dBm	-26.02 dB
3	3	3.6590 GHz	3.6600 GHz	820.0 kHz	3.659073333 GHz	-40.08 dBm	-27.08 dB
4	4	3.6600 GHz	3.7000 GHz	820.0 kHz	3.673400000 GHz	-5.083 dBm	-30.08 dB
5	5	3.7000 GHz	3.7010 GHz	820.0 kHz	3.700956667 GHz	-39.71 dBm	-26.71 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.703250000 GHz	-39.92 dBm	-26.92 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710500000 GHz	-41.13 dBm	-16.13 dB
8	8	3.7200 GHz	3.7500 GHz	1.000 MHz	3.721500000 GHz	-46.08 dBm	-6.076 dB

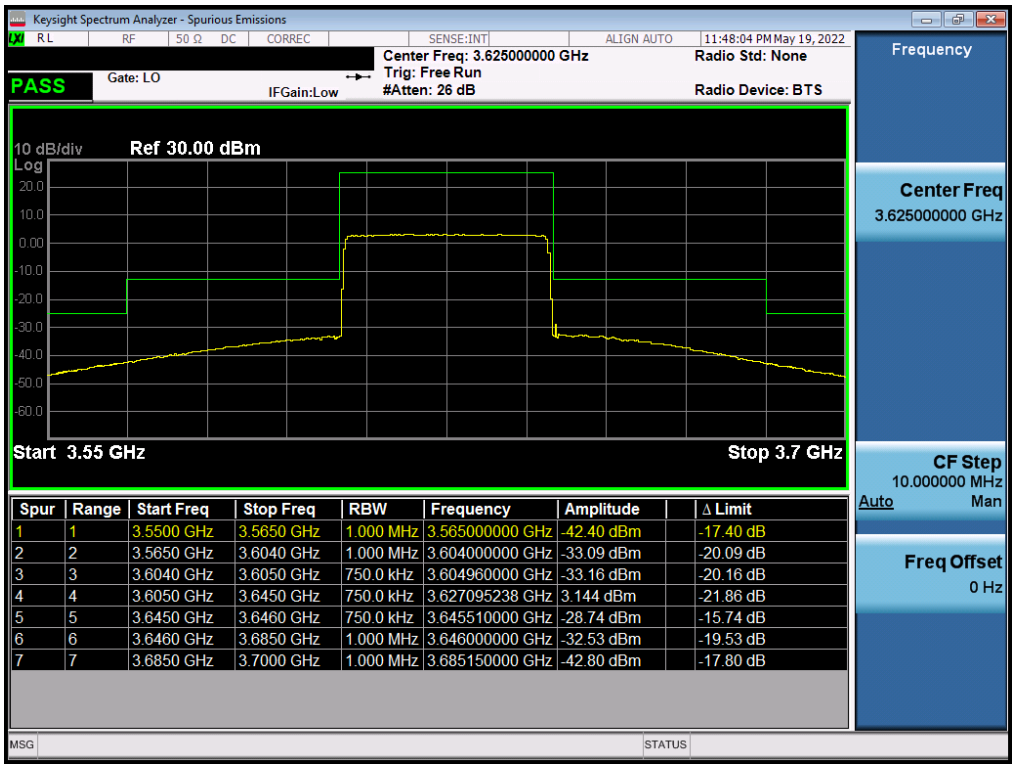
Plot 7-115. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - High Channel)

NR Band n48 Ant F



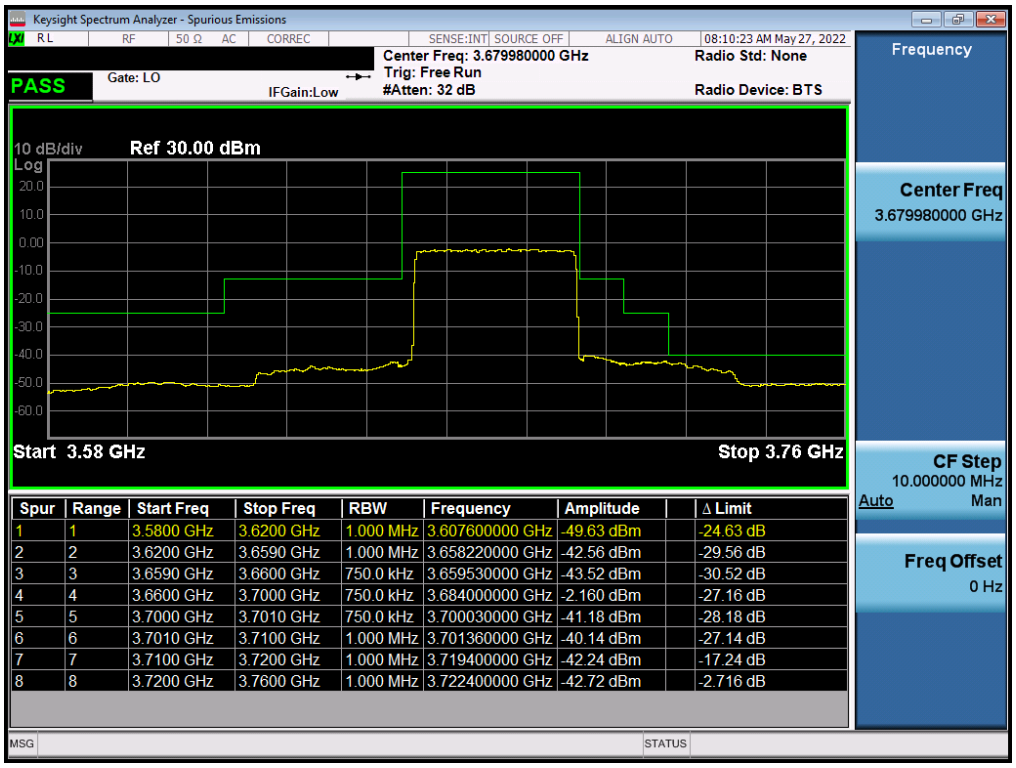
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.515600000 GHz	-43.37 dBm	-3.371 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.531500000 GHz	-46.02 dBm	-21.02 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.547740000 GHz	-36.56 dBm	-23.56 dB
4	4	3.5490 GHz	3.5500 GHz	750.0 kHz	3.549940000 GHz	-42.59 dBm	-29.59 dB
5	5	3.5500 GHz	3.5900 GHz	750.0 kHz	3.558000000 GHz	-0.511 dBm	-25.51 dB
6	6	3.5900 GHz	3.5910 GHz	750.0 kHz	3.590110000 GHz	-45.09 dBm	-32.09 dB
7	7	3.5910 GHz	3.6300 GHz	1.000 MHz	3.592170000 GHz	-44.69 dBm	-31.69 dB
8	8	3.6300 GHz	3.6700 GHz	1.000 MHz	3.632400000 GHz	-47.35 dBm	-22.35 dB

Plot 7-116. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant F)



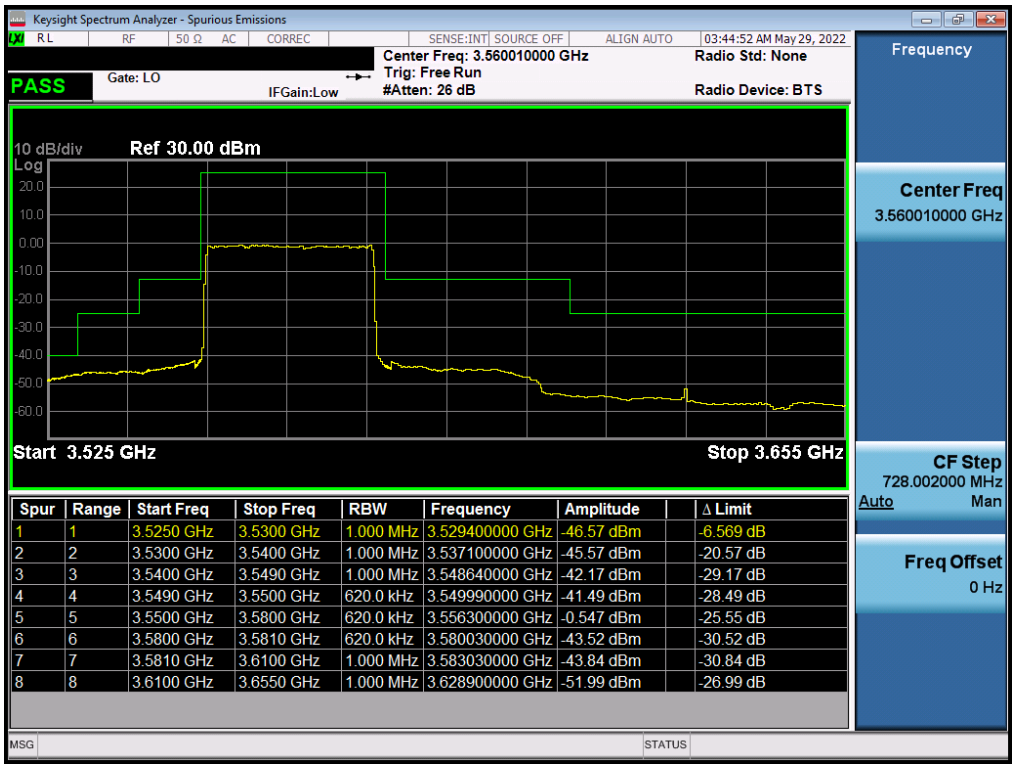
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5500 GHz	3.5650 GHz	1.000 MHz	3.565000000 GHz	-42.40 dBm	-17.40 dB
2	2	3.5650 GHz	3.6040 GHz	1.000 MHz	3.604000000 GHz	-33.09 dBm	-20.09 dB
3	3	3.6040 GHz	3.6050 GHz	750.0 kHz	3.604960000 GHz	-33.16 dBm	-20.16 dB
4	4	3.6050 GHz	3.6450 GHz	750.0 kHz	3.627095238 GHz	3.144 dBm	-21.86 dB
5	5	3.6450 GHz	3.6460 GHz	750.0 kHz	3.645510000 GHz	-28.74 dBm	-15.74 dB
6	6	3.6460 GHz	3.6850 GHz	1.000 MHz	3.646000000 GHz	-32.53 dBm	-19.53 dB
7	7	3.6850 GHz	3.7000 GHz	1.000 MHz	3.685150000 GHz	-42.80 dBm	-17.80 dB

Plot 7-117. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant F)



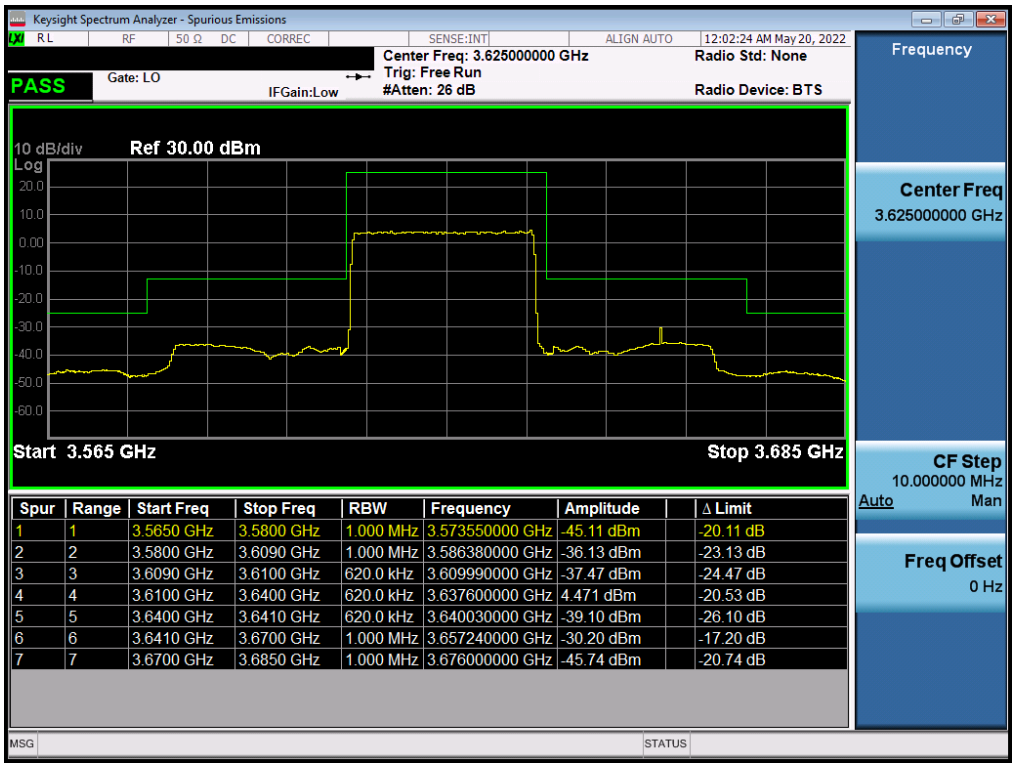
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5800 GHz	3.6200 GHz	1.000 MHz	3.607600000 GHz	-49.63 dBm	-24.63 dB
2	2	3.6200 GHz	3.6590 GHz	1.000 MHz	3.658220000 GHz	-42.56 dBm	-29.56 dB
3	3	3.6590 GHz	3.6600 GHz	750.0 kHz	3.659530000 GHz	-43.52 dBm	-30.52 dB
4	4	3.6600 GHz	3.7000 GHz	750.0 kHz	3.684000000 GHz	-2.160 dBm	-27.16 dB
5	5	3.7000 GHz	3.7010 GHz	750.0 kHz	3.700030000 GHz	-41.18 dBm	-28.18 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701360000 GHz	-40.14 dBm	-27.14 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.719400000 GHz	-42.24 dBm	-17.24 dB
8	8	3.7200 GHz	3.7600 GHz	1.000 MHz	3.722400000 GHz	-42.72 dBm	-2.716 dB

Plot 7-118. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant F)



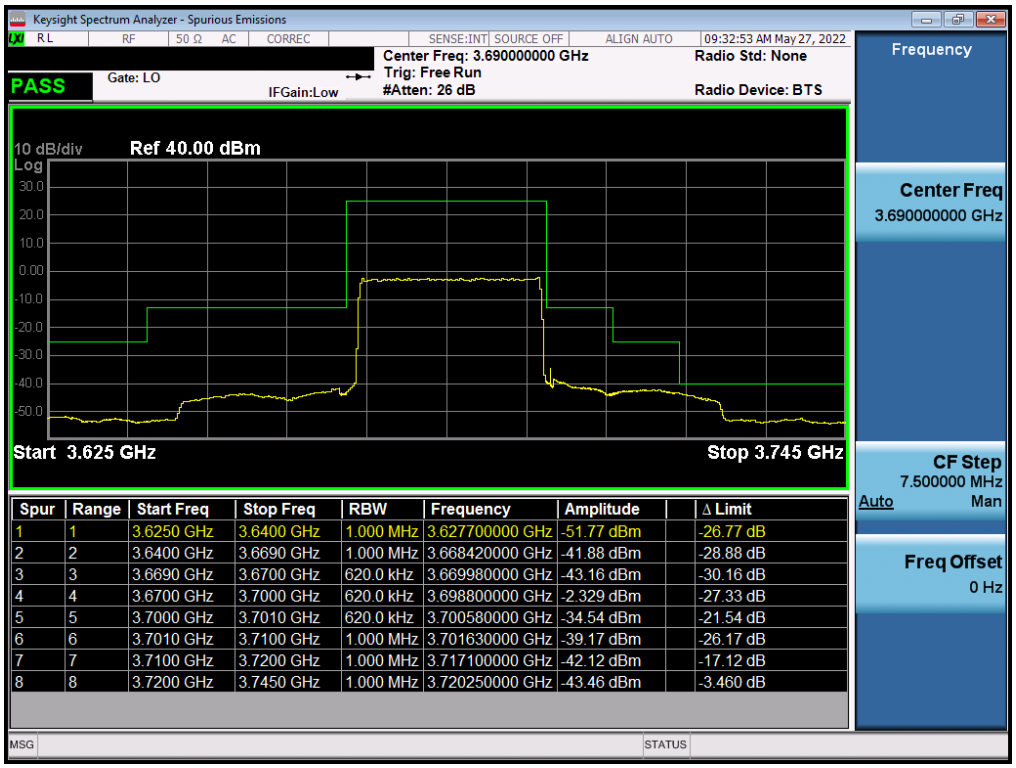
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5250 GHz	3.5300 GHz	1.000 MHz	3.529400000 GHz	-46.57 dBm	-6.569 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.537100000 GHz	-45.57 dBm	-20.57 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548640000 GHz	-42.17 dBm	-29.17 dB
4	4	3.5490 GHz	3.5500 GHz	620.0 kHz	3.549990000 GHz	-41.49 dBm	-28.49 dB
5	5	3.5500 GHz	3.5800 GHz	620.0 kHz	3.556300000 GHz	-0.547 dBm	-25.55 dB
6	6	3.5800 GHz	3.5810 GHz	620.0 kHz	3.580030000 GHz	-43.52 dBm	-30.52 dB
7	7	3.5810 GHz	3.6100 GHz	1.000 MHz	3.583030000 GHz	-43.84 dBm	-30.84 dB
8	8	3.6100 GHz	3.6550 GHz	1.000 MHz	3.628900000 GHz	-51.99 dBm	-26.99 dB

Plot 7-119. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Low Channel - Ant F)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5650 GHz	3.5800 GHz	1.000 MHz	3.573550000 GHz	-45.11 dBm	-20.11 dB
2	2	3.5800 GHz	3.6090 GHz	1.000 MHz	3.586380000 GHz	-36.13 dBm	-23.13 dB
3	3	3.6090 GHz	3.6100 GHz	620.0 kHz	3.609990000 GHz	-37.47 dBm	-24.47 dB
4	4	3.6100 GHz	3.6400 GHz	620.0 kHz	3.637600000 GHz	4.471 dBm	-20.53 dB
5	5	3.6400 GHz	3.6410 GHz	620.0 kHz	3.640030000 GHz	-39.10 dBm	-26.10 dB
6	6	3.6410 GHz	3.6700 GHz	1.000 MHz	3.657240000 GHz	-30.20 dBm	-17.20 dB
7	7	3.6700 GHz	3.6850 GHz	1.000 MHz	3.676000000 GHz	-45.74 dBm	-20.74 dB

Plot 7-120. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Mid Channel - Ant F)

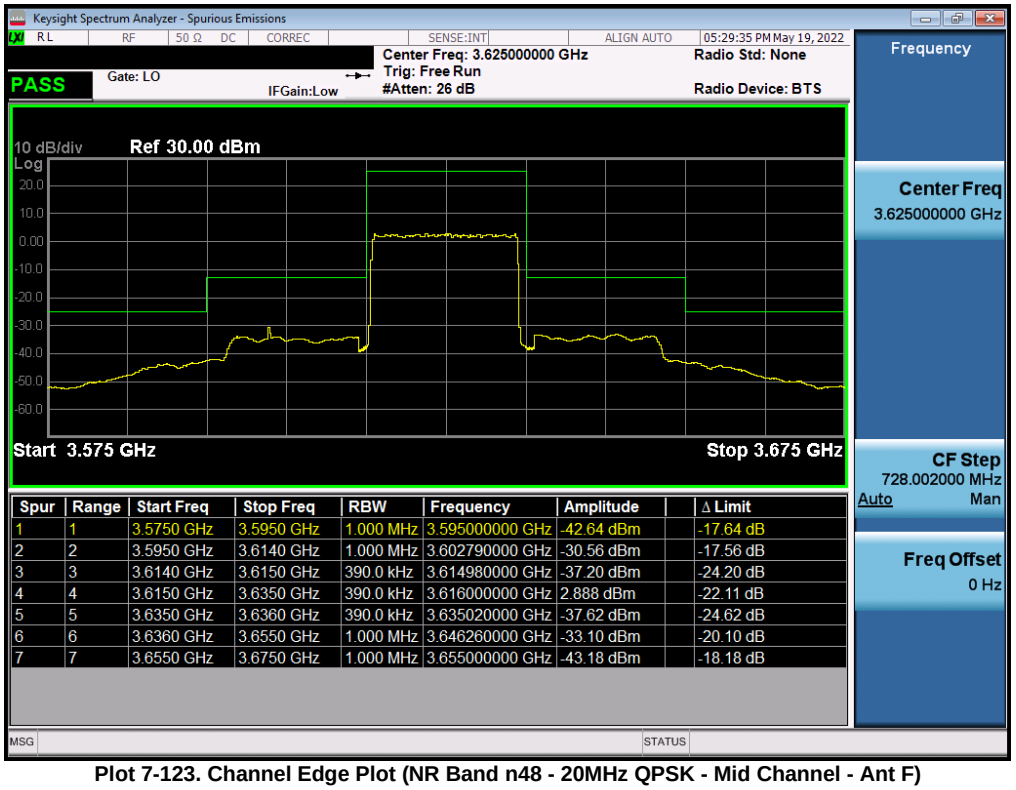


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6250 GHz	3.6400 GHz	1.000 MHz	3.627700000 GHz	-51.77 dBm	-26.77 dB
2	2	3.6400 GHz	3.6690 GHz	1.000 MHz	3.668420000 GHz	-41.88 dBm	-28.88 dB
3	3	3.6690 GHz	3.6700 GHz	620.0 kHz	3.669980000 GHz	-43.16 dBm	-30.16 dB
4	4	3.6700 GHz	3.7000 GHz	620.0 kHz	3.698800000 GHz	-2.329 dBm	-27.33 dB
5	5	3.7000 GHz	3.7010 GHz	620.0 kHz	3.700580000 GHz	-34.54 dBm	-21.54 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701630000 GHz	-39.17 dBm	-26.17 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.717100000 GHz	-42.12 dBm	-17.12 dB
8	8	3.7200 GHz	3.7450 GHz	1.000 MHz	3.720250000 GHz	-43.46 dBm	-3.460 dB

Plot 7-121. Channel Edge Plot (NR Band n48 - 30MHz QPSK - High Channel - Ant F)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.530000000 GHz	-43.59 dBm	-3.588 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539900000 GHz	-35.98 dBm	-10.98 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548910000 GHz	-31.33 dBm	-18.33 dB
4	4	3.5490 GHz	3.5500 GHz	390.0 kHz	3.549980000 GHz	-33.69 dBm	-20.69 dB
5	5	3.5500 GHz	3.5700 GHz	390.0 kHz	3.553564356 GHz	3.722 dBm	-21.28 dB
6	6	3.5700 GHz	3.5710 GHz	390.0 kHz	3.570310000 GHz	-30.36 dBm	-17.36 dB
7	7	3.5710 GHz	3.5900 GHz	1.000 MHz	3.571000000 GHz	-31.23 dBm	-18.23 dB
8	8	3.5900 GHz	3.6100 GHz	1.000 MHz	3.592800000 GHz	-41.02 dBm	-16.02 dB

Plot 7-122. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Low Channel - Ant F)

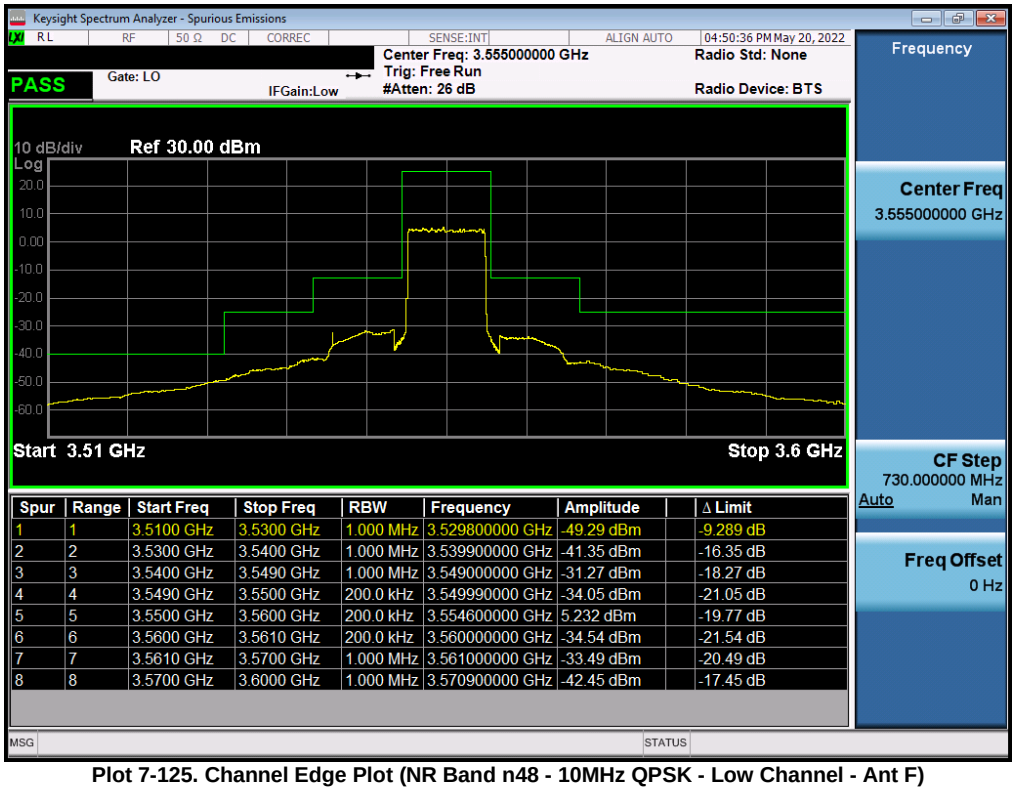


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5750 GHz	3.5950 GHz	1.000 MHz	3.595000000 GHz	-42.64 dBm	-17.64 dB
2	2	3.5950 GHz	3.6140 GHz	1.000 MHz	3.602790000 GHz	-30.56 dBm	-17.56 dB
3	3	3.6140 GHz	3.6150 GHz	390.0 kHz	3.614980000 GHz	-37.20 dBm	-24.20 dB
4	4	3.6150 GHz	3.6350 GHz	390.0 kHz	3.616000000 GHz	2.888 dBm	-22.11 dB
5	5	3.6350 GHz	3.6360 GHz	390.0 kHz	3.635020000 GHz	-37.62 dBm	-24.62 dB
6	6	3.6360 GHz	3.6550 GHz	1.000 MHz	3.646260000 GHz	-33.10 dBm	-20.10 dB
7	7	3.6550 GHz	3.6750 GHz	1.000 MHz	3.655000000 GHz	-43.18 dBm	-18.18 dB

Plot 7-123. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Mid Channel - Ant F)

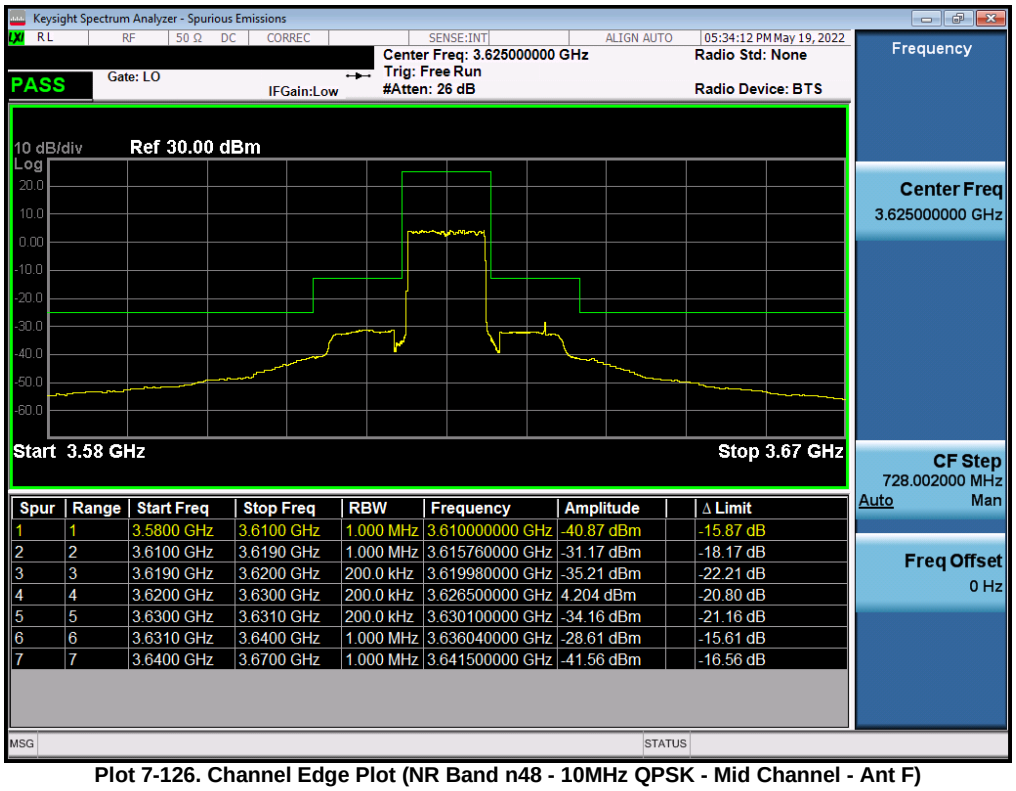
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6600 GHz	1.000 MHz	3.660000000 GHz	-41.64 dBm	-16.64 dB
2	2	3.6600 GHz	3.6790 GHz	1.000 MHz	3.674820000 GHz	-29.32 dBm	-16.32 dB
3	3	3.6790 GHz	3.6800 GHz	390.0 kHz	3.679970000 GHz	-33.03 dBm	-20.03 dB
4	4	3.6800 GHz	3.7000 GHz	390.0 kHz	3.693267327 GHz	4.234 dBm	-20.77 dB
5	5	3.7000 GHz	3.7010 GHz	390.0 kHz	3.700020000 GHz	-32.54 dBm	-19.54 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701000000 GHz	-30.04 dBm	-17.04 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710000000 GHz	-34.73 dBm	-9.728 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.720000000 GHz	-41.72 dBm	-1.720 dB

Plot 7-124. Channel Edge Plot (NR Band n48 - 20MHz QPSK - High Channel - Ant F)



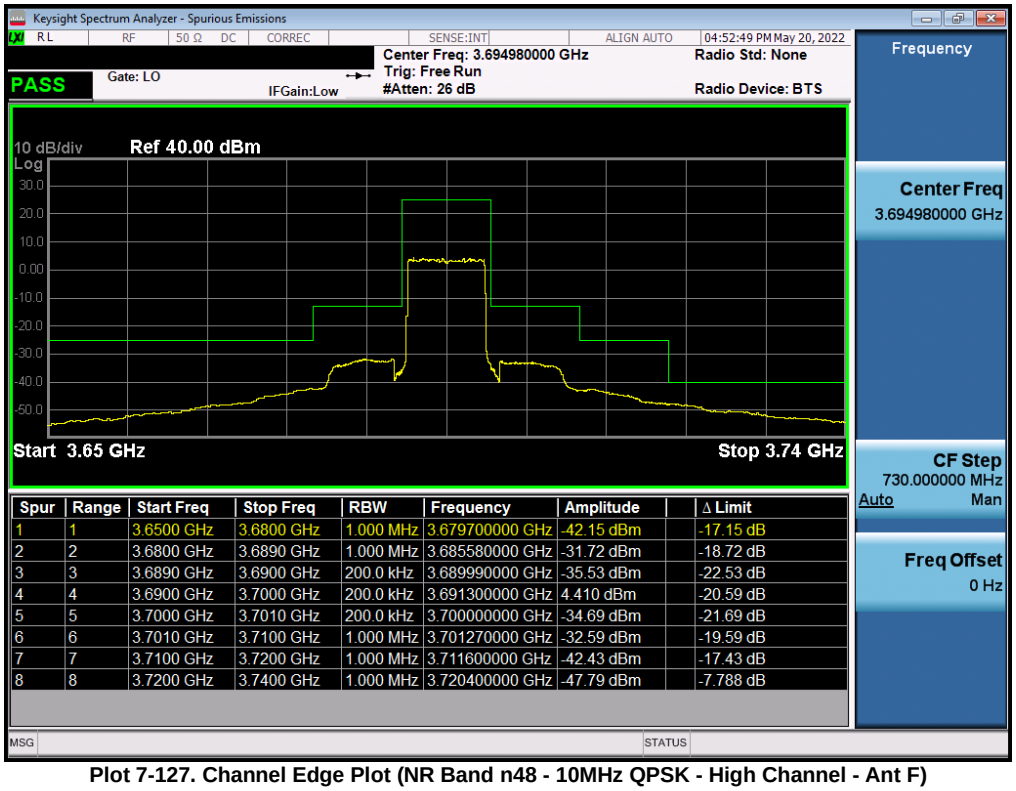
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.529800000 GHz	-49.29 dBm	-9.289 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539900000 GHz	-41.35 dBm	-16.35 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.549000000 GHz	-31.27 dBm	-18.27 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.549990000 GHz	-34.05 dBm	-21.05 dB
5	5	3.5500 GHz	3.5600 GHz	200.0 kHz	3.554600000 GHz	5.232 dBm	-19.77 dB
6	6	3.5600 GHz	3.5610 GHz	200.0 kHz	3.560000000 GHz	-34.54 dBm	-21.54 dB
7	7	3.5610 GHz	3.5700 GHz	1.000 MHz	3.561000000 GHz	-33.49 dBm	-20.49 dB
8	8	3.5700 GHz	3.6000 GHz	1.000 MHz	3.570900000 GHz	-42.45 dBm	-17.45 dB

Plot 7-125. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Low Channel - Ant F)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5800 GHz	3.6100 GHz	1.000 MHz	3.610000000 GHz	-40.87 dBm	-15.87 dB
2	2	3.6100 GHz	3.6190 GHz	1.000 MHz	3.615760000 GHz	-31.17 dBm	-18.17 dB
3	3	3.6190 GHz	3.6200 GHz	200.0 kHz	3.619980000 GHz	-35.21 dBm	-22.21 dB
4	4	3.6200 GHz	3.6300 GHz	200.0 kHz	3.626500000 GHz	4.204 dBm	-20.80 dB
5	5	3.6300 GHz	3.6310 GHz	200.0 kHz	3.630100000 GHz	-34.16 dBm	-21.16 dB
6	6	3.6310 GHz	3.6400 GHz	1.000 MHz	3.636040000 GHz	-28.61 dBm	-15.61 dB
7	7	3.6400 GHz	3.6700 GHz	1.000 MHz	3.641500000 GHz	-41.56 dBm	-16.56 dB

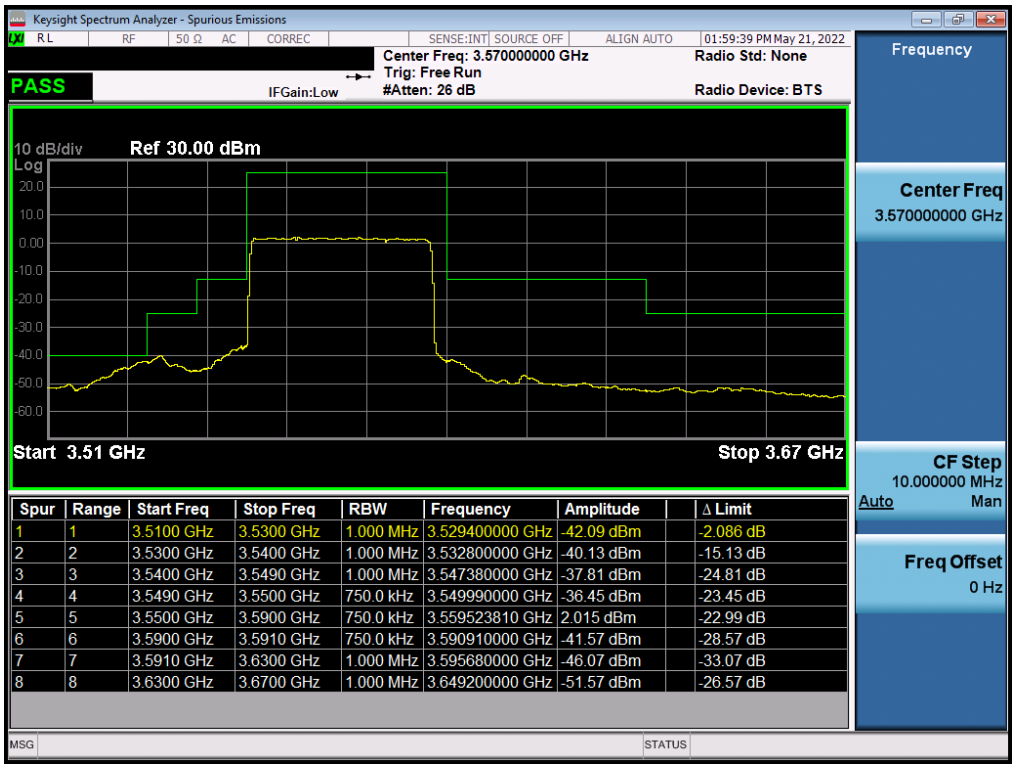
Plot 7-126. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Mid Channel - Ant F)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6500 GHz	3.6800 GHz	1.000 MHz	3.679700000 GHz	-42.15 dBm	-17.15 dB
2	2	3.6800 GHz	3.6890 GHz	1.000 MHz	3.685580000 GHz	-31.72 dBm	-18.72 dB
3	3	3.6890 GHz	3.6900 GHz	200.0 kHz	3.689990000 GHz	-35.53 dBm	-22.53 dB
4	4	3.6900 GHz	3.7000 GHz	200.0 kHz	3.691300000 GHz	4.410 dBm	-20.59 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700000000 GHz	-34.69 dBm	-21.69 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701270000 GHz	-32.59 dBm	-19.59 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.711600000 GHz	-42.43 dBm	-17.43 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.720400000 GHz	-47.79 dBm	-7.788 dB

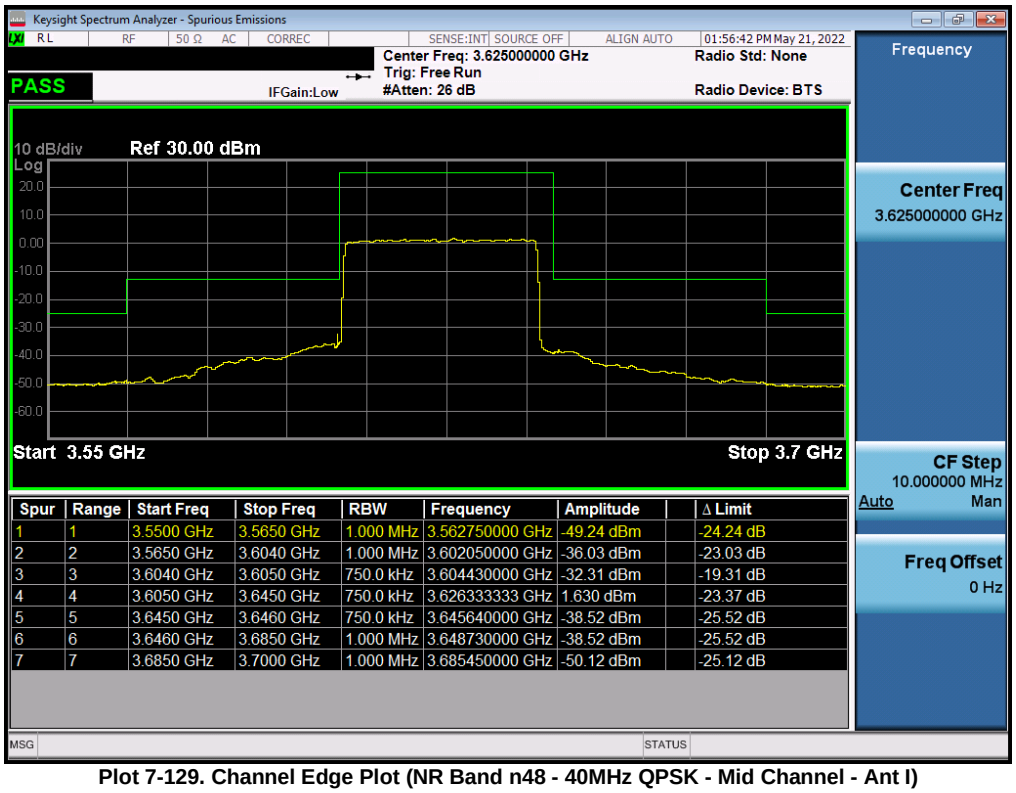
Plot 7-127. Channel Edge Plot (NR Band n48 - 10MHz QPSK - High Channel - Ant F)

NR Band n48 Ant I



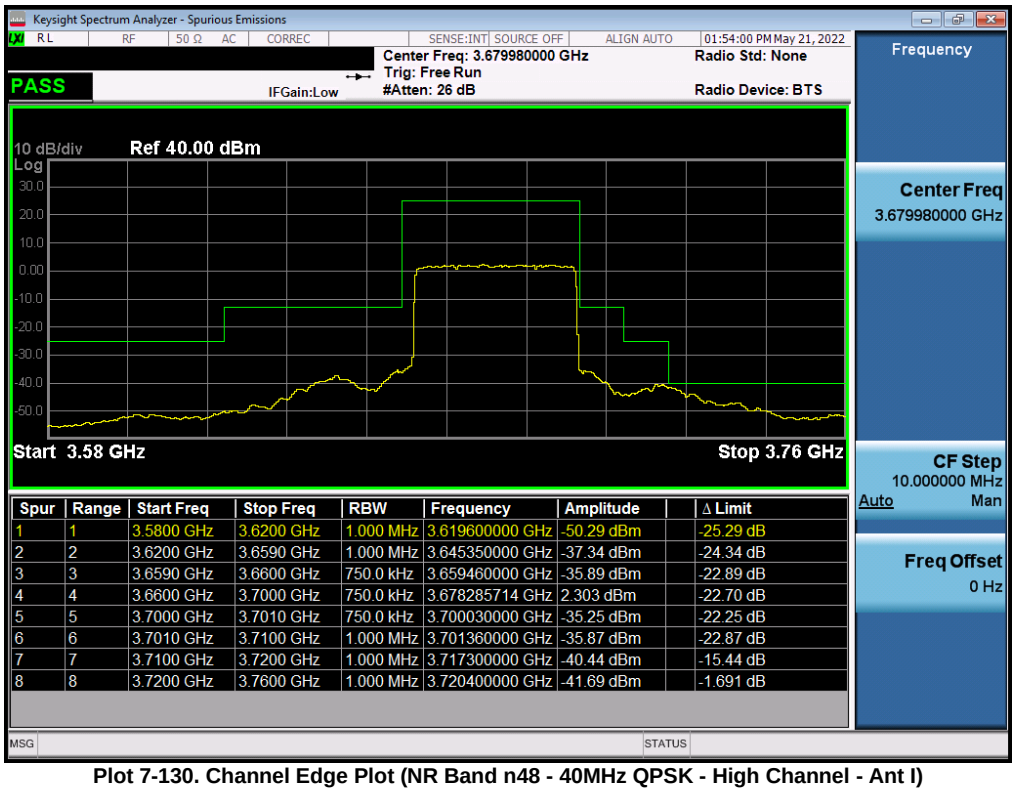
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.529400000 GHz	-42.09 dBm	-2.086 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.532800000 GHz	-40.13 dBm	-15.13 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.547380000 GHz	-37.81 dBm	-24.81 dB
4	4	3.5490 GHz	3.5500 GHz	750.0 kHz	3.549990000 GHz	-36.45 dBm	-23.45 dB
5	5	3.5500 GHz	3.5900 GHz	750.0 kHz	3.559523810 GHz	2.015 dBm	-22.99 dB
6	6	3.5900 GHz	3.5910 GHz	750.0 kHz	3.590910000 GHz	-41.57 dBm	-28.57 dB
7	7	3.5910 GHz	3.6300 GHz	1.000 MHz	3.595680000 GHz	-46.07 dBm	-33.07 dB
8	8	3.6300 GHz	3.6700 GHz	1.000 MHz	3.649200000 GHz	-51.57 dBm	-26.57 dB

Plot 7-128. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant I)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5500 GHz	3.5650 GHz	1.000 MHz	3.562750000 GHz	-49.24 dBm	-24.24 dB
2	2	3.5650 GHz	3.6040 GHz	1.000 MHz	3.602050000 GHz	-36.03 dBm	-23.03 dB
3	3	3.6040 GHz	3.6050 GHz	750.0 kHz	3.604430000 GHz	-32.31 dBm	-19.31 dB
4	4	3.6050 GHz	3.6450 GHz	750.0 kHz	3.626333333 GHz	1.630 dBm	-23.37 dB
5	5	3.6450 GHz	3.6460 GHz	750.0 kHz	3.645640000 GHz	-38.52 dBm	-25.52 dB
6	6	3.6460 GHz	3.6850 GHz	1.000 MHz	3.648730000 GHz	-38.52 dBm	-25.52 dB
7	7	3.6850 GHz	3.7000 GHz	1.000 MHz	3.685450000 GHz	-50.12 dBm	-25.12 dB

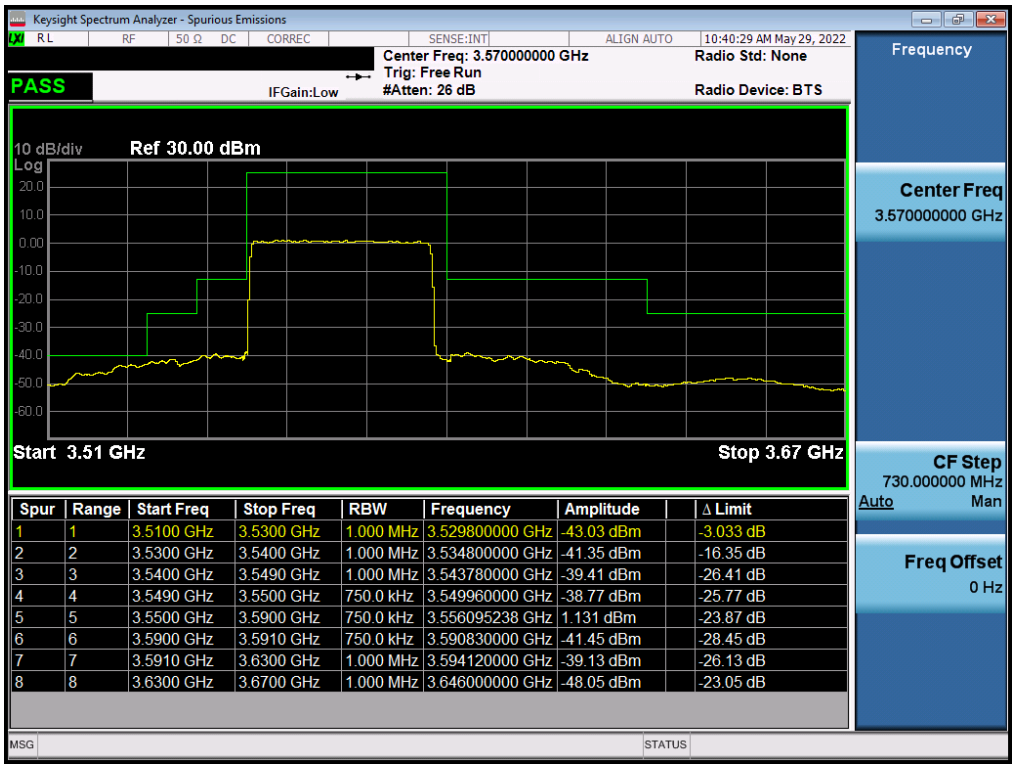
Plot 7-129. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant I)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5800 GHz	3.6200 GHz	1.000 MHz	3.619600000 GHz	-50.29 dBm	-25.29 dB
2	2	3.6200 GHz	3.6590 GHz	1.000 MHz	3.645350000 GHz	-37.34 dBm	-24.34 dB
3	3	3.6590 GHz	3.6600 GHz	750.0 kHz	3.659460000 GHz	-35.89 dBm	-22.89 dB
4	4	3.6600 GHz	3.7000 GHz	750.0 kHz	3.678285714 GHz	2.303 dBm	-22.70 dB
5	5	3.7000 GHz	3.7010 GHz	750.0 kHz	3.700030000 GHz	-35.25 dBm	-22.25 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701360000 GHz	-35.87 dBm	-22.87 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.717300000 GHz	-40.44 dBm	-15.44 dB
8	8	3.7200 GHz	3.7600 GHz	1.000 MHz	3.720400000 GHz	-41.69 dBm	-1.691 dB

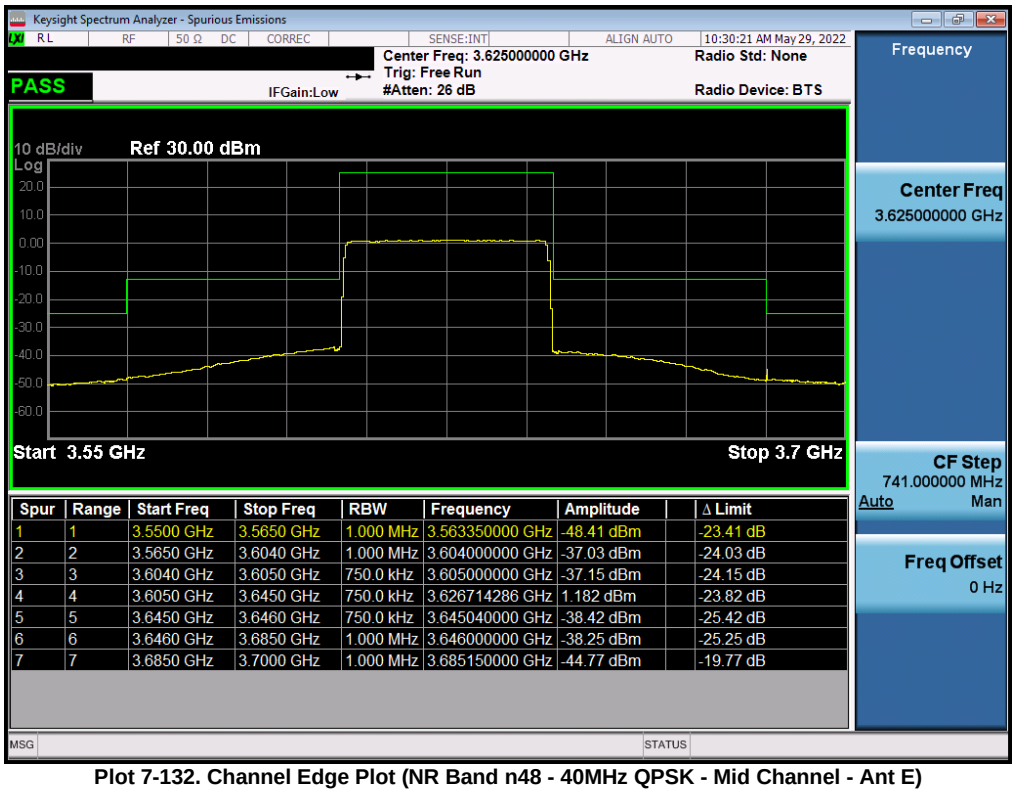
Plot 7-130. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant I)

NR Band n48 Ant E



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.529800000 GHz	-43.03 dBm	-3.033 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.534800000 GHz	-41.35 dBm	-16.35 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.543780000 GHz	-39.41 dBm	-26.41 dB
4	4	3.5490 GHz	3.5500 GHz	750.0 kHz	3.549960000 GHz	-38.77 dBm	-25.77 dB
5	5	3.5500 GHz	3.5900 GHz	750.0 kHz	3.556095238 GHz	1.131 dBm	-23.87 dB
6	6	3.5900 GHz	3.5910 GHz	750.0 kHz	3.590830000 GHz	-41.45 dBm	-28.45 dB
7	7	3.5910 GHz	3.6300 GHz	1.000 MHz	3.594120000 GHz	-39.13 dBm	-26.13 dB
8	8	3.6300 GHz	3.6700 GHz	1.000 MHz	3.646000000 GHz	-48.05 dBm	-23.05 dB

Plot 7-131. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant E)



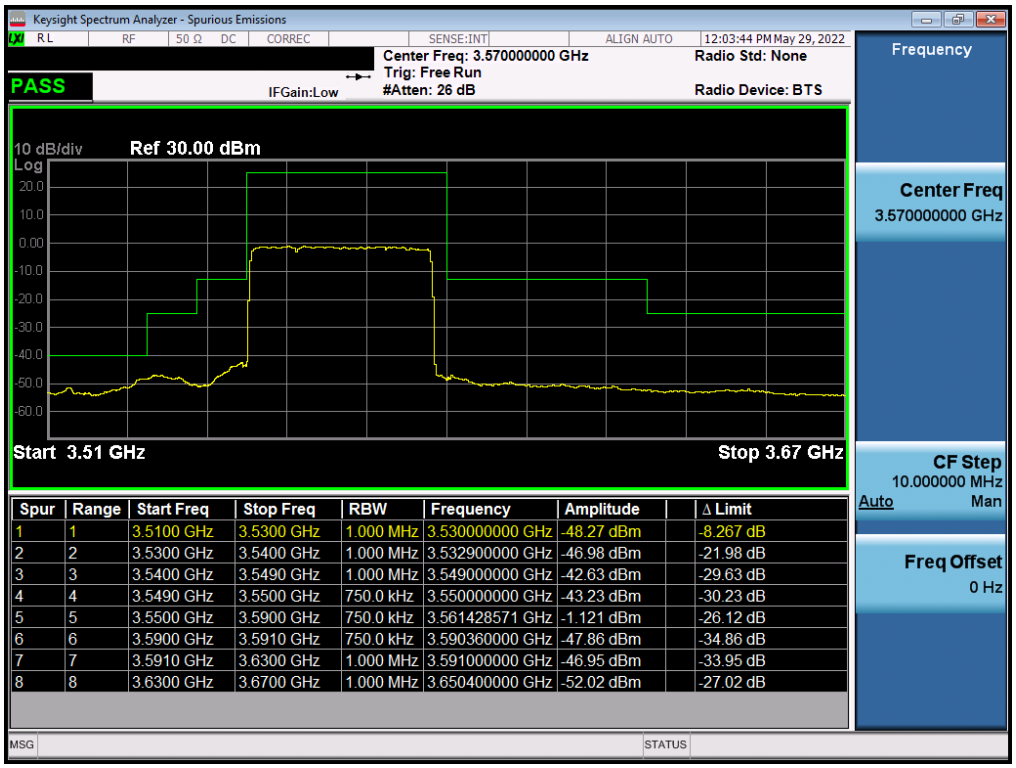
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5500 GHz	3.5650 GHz	1.000 MHz	3.563350000 GHz	-48.41 dBm	-23.41 dB
2	2	3.5650 GHz	3.6040 GHz	1.000 MHz	3.604000000 GHz	-37.03 dBm	-24.03 dB
3	3	3.6040 GHz	3.6050 GHz	750.0 kHz	3.605000000 GHz	-37.15 dBm	-24.15 dB
4	4	3.6050 GHz	3.6450 GHz	750.0 kHz	3.626714286 GHz	1.182 dBm	-23.82 dB
5	5	3.6450 GHz	3.6460 GHz	750.0 kHz	3.645040000 GHz	-38.42 dBm	-25.42 dB
6	6	3.6460 GHz	3.6850 GHz	1.000 MHz	3.646000000 GHz	-38.25 dBm	-25.25 dB
7	7	3.6850 GHz	3.7000 GHz	1.000 MHz	3.685150000 GHz	-44.77 dBm	-19.77 dB

Plot 7-132. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant E)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5800 GHz	3.6200 GHz	1.000 MHz	3.605200000 GHz	-47.88 dBm	-22.88 dB
2	2	3.6200 GHz	3.6590 GHz	1.000 MHz	3.659000000 GHz	-40.47 dBm	-27.47 dB
3	3	3.6590 GHz	3.6600 GHz	750.0 kHz	3.659270000 GHz	-41.07 dBm	-28.07 dB
4	4	3.6600 GHz	3.7000 GHz	750.0 kHz	3.670285714 GHz	0.926 dBm	-24.07 dB
5	5	3.7000 GHz	3.7010 GHz	750.0 kHz	3.700010000 GHz	-38.04 dBm	-25.04 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701000000 GHz	-37.65 dBm	-24.65 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.714800000 GHz	-41.40 dBm	-16.40 dB
8	8	3.7200 GHz	3.7600 GHz	1.000 MHz	3.721200000 GHz	-42.27 dBm	-2.270 dB

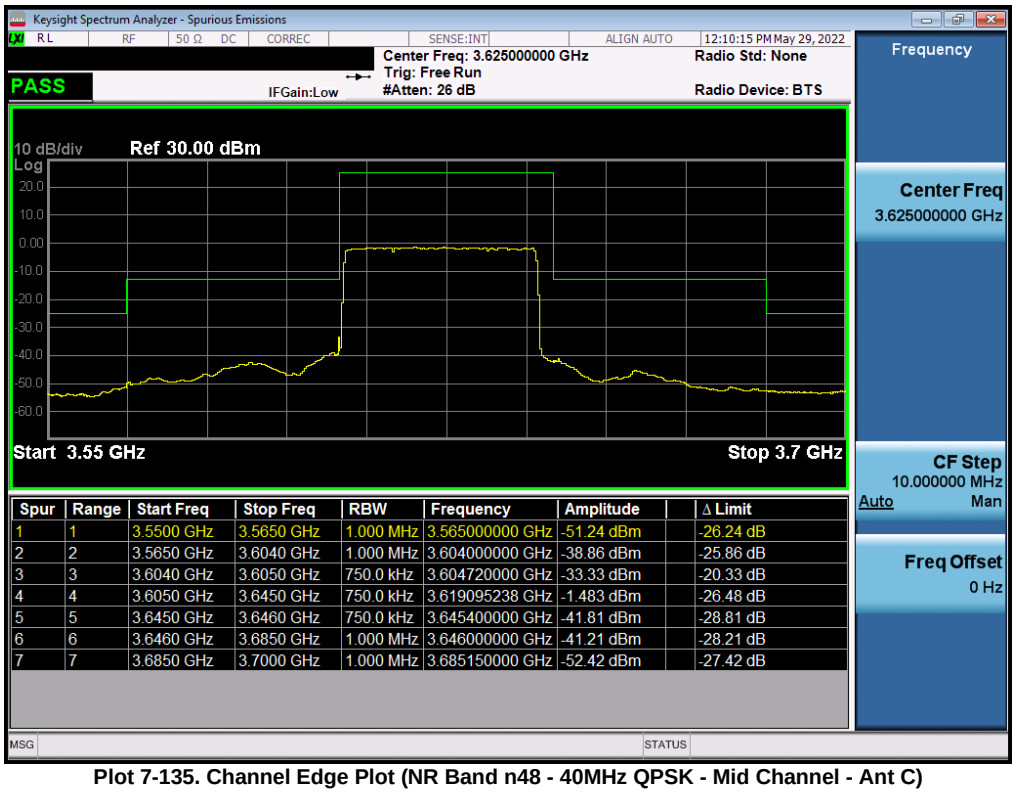
Plot 7-133. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant E)

NR Band n48 Ant C



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.530000000 GHz	-48.27 dBm	-8.267 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.532900000 GHz	-46.98 dBm	-21.98 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.549000000 GHz	-42.63 dBm	-29.63 dB
4	4	3.5490 GHz	3.5500 GHz	750.0 kHz	3.550000000 GHz	-43.23 dBm	-30.23 dB
5	5	3.5500 GHz	3.5900 GHz	750.0 kHz	3.561428571 GHz	-1.121 dBm	-26.12 dB
6	6	3.5900 GHz	3.5910 GHz	750.0 kHz	3.590360000 GHz	-47.86 dBm	-34.86 dB
7	7	3.5910 GHz	3.6300 GHz	1.000 MHz	3.591000000 GHz	-46.95 dBm	-33.95 dB
8	8	3.6300 GHz	3.6700 GHz	1.000 MHz	3.650400000 GHz	-52.02 dBm	-27.02 dB

Plot 7-134. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant C)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5500 GHz	3.5650 GHz	1.000 MHz	3.565000000 GHz	-51.24 dBm	-26.24 dB
2	2	3.5650 GHz	3.6040 GHz	1.000 MHz	3.604000000 GHz	-38.86 dBm	-25.86 dB
3	3	3.6040 GHz	3.6050 GHz	750.0 kHz	3.604720000 GHz	-33.33 dBm	-20.33 dB
4	4	3.6050 GHz	3.6450 GHz	750.0 kHz	3.619095238 GHz	-1.483 dBm	-26.48 dB
5	5	3.6450 GHz	3.6460 GHz	750.0 kHz	3.645400000 GHz	-41.81 dBm	-28.81 dB
6	6	3.6460 GHz	3.6850 GHz	1.000 MHz	3.646000000 GHz	-41.21 dBm	-28.21 dB
7	7	3.6850 GHz	3.7000 GHz	1.000 MHz	3.685150000 GHz	-52.42 dBm	-27.42 dB

Plot 7-135. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant C)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5800 GHz	3.6200 GHz	1.000 MHz	3.620000000 GHz	-50.28 dBm	-25.28 dB
2	2	3.6200 GHz	3.6590 GHz	1.000 MHz	3.659000000 GHz	-38.22 dBm	-25.22 dB
3	3	3.6590 GHz	3.6600 GHz	750.0 kHz	3.659230000 GHz	-38.94 dBm	-25.94 dB
4	4	3.6600 GHz	3.7000 GHz	750.0 kHz	3.678666667 GHz	-1.403 dBm	-26.40 dB
5	5	3.7000 GHz	3.7010 GHz	750.0 kHz	3.700020000 GHz	-37.77 dBm	-24.77 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701000000 GHz	-38.34 dBm	-25.34 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.718700000 GHz	-43.20 dBm	-18.20 dB
8	8	3.7200 GHz	3.7600 GHz	1.000 MHz	3.720400000 GHz	-44.52 dBm	-4.522 dB

Plot 7-136. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant C)

7.6 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points ≥ 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was set equal to 10MHz. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

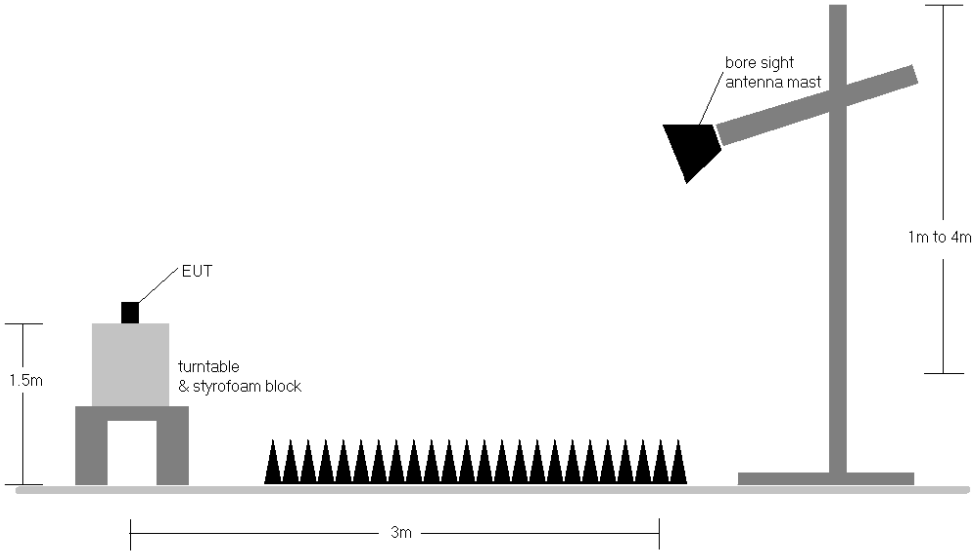


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

2) This unit was tested with its standard battery.

3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

4) The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz).

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
20 MHz	QPSK	3560.0	H	116	150	7.37	1 / 99	10.39	17.76	0.060	23.00	-5.24
	QPSK	3625.0	H	116	151	6.77	1 / 50	11.03	17.80	0.060	23.00	-5.20
	QPSK	3690.0	H	110	152	6.15	1 / 50	11.67	**17.82**	**0.060**	23.00	-5.18
	16-QAM	3690.0	H	110	152	6.15	1 / 99	10.84	16.99	0.050	23.00	-6.01
15 MHz	QPSK	3557.5	H	116	150	7.40	1 / 37	10.48	**17.88**	**0.061**	23.00	-5.12
	QPSK	3625.0	H	116	151	6.77	1 / 37	10.71	17.48	0.056	23.00	-5.52
	QPSK	3692.5	H	110	152	6.12	1 / 37	11.52	17.64	0.058	23.00	-5.36
	16-QAM	3625.0	H	116	151	6.77	1 / 37	10.21	16.98	0.050	23.00	-6.02
10 MHz	QPSK	3555.0	H	116	150	7.43	1 / 49	10.46	**17.88**	**0.061**	23.00	-5.12
	QPSK	3625.0	H	116	151	6.77	1 / 49	10.75	17.51	0.056	23.00	-5.49
	QPSK	3695.0	H	110	152	6.09	1 / 49	11.33	17.42	0.055	23.00	-5.58
	16-QAM	3625.0	H	116	151	6.77	1 / 49	10.33	17.09	0.051	23.00	-5.91
5 MHz	QPSK	3552.5	H	116	150	7.45	1 / 12	10.29	17.74	0.059	23.00	-5.26
	QPSK	3625.0	H	116	151	6.77	1 / 24	10.98	17.75	0.060	23.00	-5.25
	QPSK	3697.5	H	110	152	6.06	1 / 12	11.78	**17.85**	**0.061**	23.00	-5.15
	16-QAM	3697.5	H	110	152	6.06	1 / 12	11.11	17.17	0.052	23.00	-5.83
20 MHZ	QPSK (Opposite Pol.)	3690.0	V	380	222	6.60	1 / 50	10.83	**17.43**	**0.055**	23.00	-5.57
	QPSK (Half Open)	3690.0	H	107	158	6.15	1 / 99	8.69	14.84	0.030	23.00	-8.16
	QPSK (WCP)	3690.0	H	146	210	6.15	1 / 50	6.06	12.21	0.017	23.00	-10.79

Table 7-10. EIRP Data (LTE Band 48) – Half Open

Bandwidth	Modulation	PCC			SCC			Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
		Bandwidth [MHz]	Frequency [MHz]	RB / Offset	Bandwidth [MHz]	Frequency [MHz]	RB / Offset									
40 MHz	QPSK	20	3560.0	1 / 99	20	3579.8	1 / 0	H	105	149	7.37	10.46	17.83	0.061	23.00	-5.17
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	112	153	6.77	11.10	17.87	0.061	23.00	-5.13
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	108	153	6.15	11.70	17.85	0.061	23.00	-5.15
	16-QAM	20	3560.0	1 / 99	20	3579.8	1 / 0	H	105	149	7.37	9.71	17.08	0.051	23.00	-5.92
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	112	153	6.77	10.26	17.03	0.050	23.00	-5.97
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	108	153	6.15	10.83	16.98	0.050	23.00	-6.02
35 MHz	QPSK	20	3560.0	1 / 99	15	3577.1	1 / 0	H	105	149	7.37	10.75	18.12	0.065	23.00	-4.88
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	112	153	6.77	11.28	18.05	0.064	23.00	-4.95
		20	3690.0	1 / 0	15	3672.9	1 / 74	H	108	153	6.15	12.29	18.43	0.070	23.00	-4.57
	16-QAM	20	3560.0	1 / 99	15	3577.1	1 / 0	H	105	149	7.37	9.41	16.78	0.048	23.00	-6.22
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	112	153	6.77	10.26	17.03	0.050	23.00	-5.97
		20	3690.0	1 / 0	15	3672.9	1 / 74	H	108	153	6.15	11.11	17.25	0.053	23.00	-5.75
30 MHz	QPSK	20	3560.0	1 / 99	10	3574.4	1 / 0	H	105	149	7.37	10.92	18.29	0.068	23.00	-4.71
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	112	153	6.77	11.25	18.02	0.063	23.00	-4.98
		20	3690.0	1 / 0	10	3678.3	1 / 49	H	108	153	6.15	12.17	18.32	0.068	23.00	-4.68
	16-QAM	20	3560.0	1 / 99	10	3574.4	1 / 0	H	105	149	7.37	9.92	17.30	0.054	23.00	-5.70
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	112	153	6.77	10.26	17.03	0.050	23.00	-5.97
		20	3690.0	1 / 0	10	3678.3	1 / 49	H	108	153	6.15	10.74	16.88	0.049	23.00	-6.12
25 MHz	QPSK	20	3560.0	1 / 99	5	3571.7	1 / 0	H	105	149	7.37	10.87	18.24	0.067	23.00	-4.76
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	112	153	6.77	11.23	18.00	0.063	23.00	-5.00
		20	3690.0	1 / 0	5	3678.3	1 / 24	H	108	153	6.15	12.14	18.29	0.067	23.00	-4.71
	16-QAM	20	3560.0	1 / 99	5	3571.7	1 / 0	H	105	149	7.37	9.78	17.16	0.052	23.00	-5.84
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	112	153	6.77	9.97	16.73	0.047	23.00	-6.27
		20	3690.0	1 / 0	5	3678.3	1 / 24	H	108	153	6.15	10.63	16.78	0.048	23.00	-6.22

Table 7-11. EIRP Data (LTE ULCA Band 48) – Open

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	π/2 BPSK	3570.00	H	117	135	7.27	1 / 53	11.56	18.83	0.076	23.00	-4.17
	π/2 BPSK	3624.99	H	108	133	6.77	1 / 53	12.52	**19.29**	**0.085**	23.00	-3.71
	π/2 BPSK	3680.00	H	112	29	6.25	1 / 53	12.78	19.03	0.080	23.00	-3.97
	QPSK	3570.00	H	117	135	7.27	1 / 79	11.16	18.43	0.070	23.00	-4.57
	QPSK	3624.99	H	108	133	6.77	1 / 79	11.93	18.70	0.074	23.00	-4.30
	QPSK	3679.98	H	112	29	6.25	1 / 79	12.44	18.69	0.074	23.00	-4.31
	16-QAM	3624.99	H	108	133	6.77	1 / 26	11.28	18.05	0.064	23.00	-4.95
30 MHz	π/2 BPSK	3565.02	H	117	135	7.32	1 / 19	11.41	18.73	0.075	23.00	-4.27
	π/2 BPSK	3624.99	H	108	133	6.77	1 / 39	12.51	**19.28**	**0.085**	23.00	-3.72
	π/2 BPSK	3684.99	H	112	29	6.20	1 / 19	12.87	19.07	0.081	23.00	-3.93
	QPSK	3565.02	H	117	135	7.32	1 / 19	10.98	18.30	0.068	23.00	-4.70
	QPSK	3624.99	H	108	133	6.77	1 / 39	11.92	18.69	0.074	23.00	-4.31
	QPSK	3684.99	H	112	29	6.20	1 / 19	12.47	18.67	0.074	23.00	-4.33
	16-QAM	3624.99	H	108	133	6.77	1 / 39	11.22	17.99	0.063	23.00	-5.01
20 MHz	π/2 BPSK	3560.01	H	117	135	7.37	1 / 37	11.37	18.74	0.075	23.00	-4.26
	π/2 BPSK	3624.99	H	108	133	6.77	1 / 13	12.42	**19.19**	**0.083**	23.00	-3.81
	π/2 BPSK	3690.00	H	112	29	6.15	1 / 13	12.74	18.88	0.077	23.00	-4.12
	QPSK	3560.01	H	117	135	7.37	1 / 37	10.98	18.35	0.068	23.00	-4.65
	QPSK	3624.99	H	108	133	6.77	1 / 13	11.83	18.60	0.072	23.00	-4.40
	QPSK	3690.00	H	112	29	6.15	1 / 13	12.35	18.49	0.071	23.00	-4.51
	16-QAM	3624.99	H	108	133	6.77	1 / 13	11.12	17.89	0.061	23.00	-5.11
10 MHz	π/2 BPSK	3555.00	H	117	135	7.43	1 / 6	11.09	18.52	0.071	23.00	-4.48
	π/2 BPSK	3624.99	H	108	133	6.77	1 / 17	12.25	**19.02**	**0.080**	23.00	-3.98
	π/2 BPSK	3694.98	H	112	29	6.09	1 / 17	12.66	18.75	0.075	23.00	-4.25
	QPSK	3555.00	H	117	135	7.43	1 / 6	10.70	18.13	0.065	23.00	-4.87
	QPSK	3624.99	H	108	133	6.77	1 / 17	11.62	18.39	0.069	23.00	-4.61
	QPSK	3694.98	H	112	29	6.09	1 / 17	12.31	18.40	0.069	23.00	-4.60
	16-QAM	3624.99	H	108	133	6.77	1 / 17	10.97	17.74	0.059	23.00	-5.26
40 MHz	QPSK (CP-OFDM)	3624.99	H	108	133	6.77	1 / 79	10.49	17.26	0.053	23.00	-5.74
	QPSK (Half)	3624.99	H	120	300	6.77	1 / 79	11.18	17.95	0.062	23.00	-5.05
	QPSK (Opposite Pol.)	3624.99	V	382	210	6.91	1 / 26	12.07	**18.98**	**0.079**	23.00	-4.02
	QPSK (WCP)	3624.99	H	143	217	6.77	1 / 26	10.38	17.15	0.052	23.00	-5.85

Table 7-12. EIRP Data (NR Band n48 Ant F) – Open

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	π/2 BPSK	3570.0	H	116	240	7.27	1 / 79	8.85	**16.12**	**0.041**	23.00	-6.88
	π/2 BPSK	3625.0	H	115	236	6.77	1 / 79	8.63	15.40	0.035	23.00	-7.60
	π/2 BPSK	3680.0	H	108	233	6.25	1 / 53	7.44	13.69	0.023	23.00	-9.31
	QPSK	3570.0	H	116	240	7.27	1 / 79	8.81	16.08	0.041	23.00	-6.92
	QPSK	3625.0	H	115	236	6.77	1 / 79	8.73	15.50	0.035	23.00	-7.50
	QPSK	3680.0	H	108	233	6.25	1 / 26	7.35	13.60	0.023	23.00	-9.40
	16-QAM	3570.0	H	116	240	7.27	1 / 79	8.15	15.42	0.035	23.00	-7.58
40 MHz	QPSK (CP-OFDM)	3570.0	H	116	240	7.27	1/79	5.40	12.67	0.018	23.00	-10.33

Table 7-13. EIRP Data (NR Band n48 Ant I) – Closed

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	π/2 BPSK	3560.0	H	117	312	7.27	1 / 79	5.11	12.38	0.017	23.00	-10.62
	π/2 BPSK	3625.0	H	119	314	6.77	1 / 79	5.59	12.36	0.017	23.00	-10.64
	π/2 BPSK	3690.0	H	118	312	6.25	1 / 79	5.42	11.67	0.015	23.00	-11.33
	QPSK	3560.0	H	117	312	7.27	1 / 79	5.14	**12.41**	**0.017**	23.00	-10.59
	QPSK	3625.0	H	119	314	6.77	1 / 79	5.61	12.38	0.017	23.00	-10.62
	QPSK	3690.0	H	118	312	6.25	1 / 79	5.43	11.68	0.015	23.00	-11.32
	16-QAM	3560.0	H	117	312	7.27	1 / 79	5.02	12.29	0.017	23.00	-10.71
40 MHz	QPSK (CP-OFDM)	3570.0	H	117	312	7.27	/1/53	5.02	**12.29**	**0.017**	23.00	-10.71

Table 7-14. EIRP Data (NR Band n48 Ant E) – Open

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	π/2 BPSK	3560.0	V	110	101	7.14	1 / 79	4.65	11.79	0.015	23.00	-11.21
	π/2 BPSK	3625.0	V	108	97	6.91	1 / 26	4.16	11.07	0.013	23.00	-11.93
	π/2 BPSK	3690.0	V	114	106	6.63	1 / 26	1.05	7.68	0.006	23.00	-15.32
	QPSK	3560.0	V	110	101	7.14	1 / 79	4.70	**11.84**	**0.015**	23.00	-11.16
	QPSK	3625.0	V	108	97	6.91	1 / 26	4.22	11.13	0.013	23.00	-11.87
	QPSK	3690.0	V	114	106	6.63	1 / 26	1.34	7.97	0.006	23.00	-15.03
	16-QAM	3560.0	V	110	101	7.14	1 / 79	3.83	10.97	0.013	23.00	-12.03
40 MHz	QPSK (CP-OFDM)	3570.0	V	110	101	7.14	1/79	1.68	8.82	0.008	23.00	-14.18

Table 7-15. EIRP Data (NR Band n48 Ant C) – Open

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq$ 2 x span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

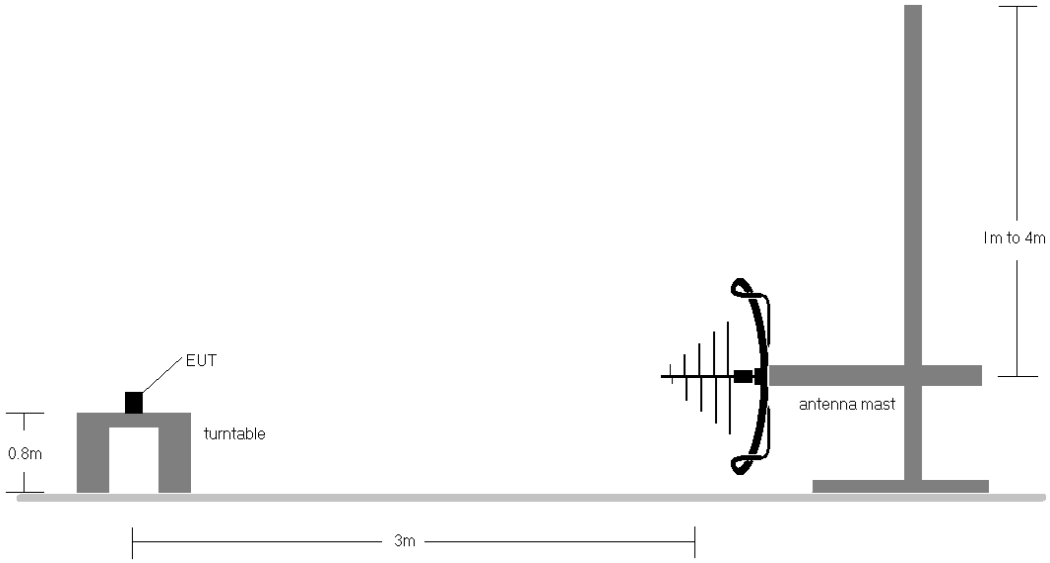


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

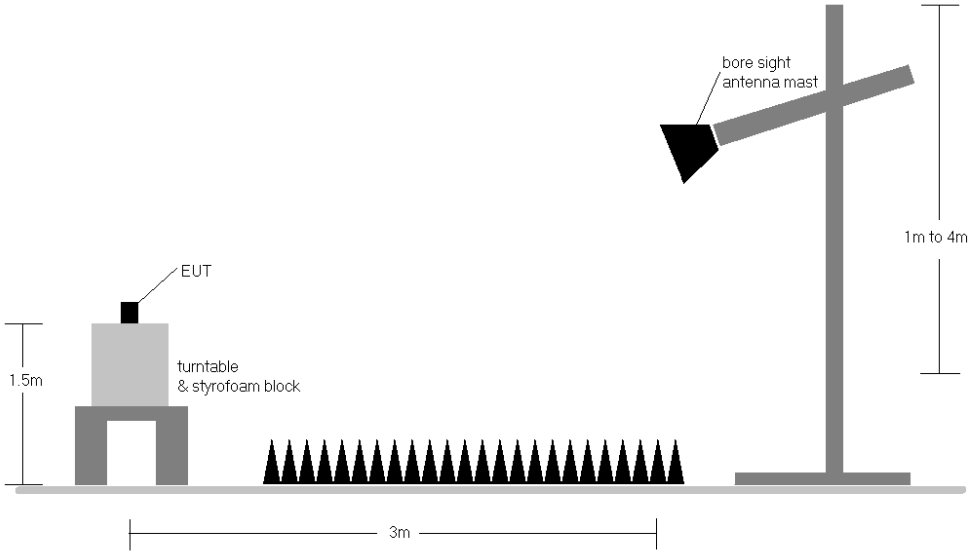


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

Test Notes

1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
   a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
   b) EIRP (dBm) = E(dBµV/m) + 20logD – 104.8; where D is the measurement distance in meters.

2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

3) This unit was tested with its standard battery.

4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.

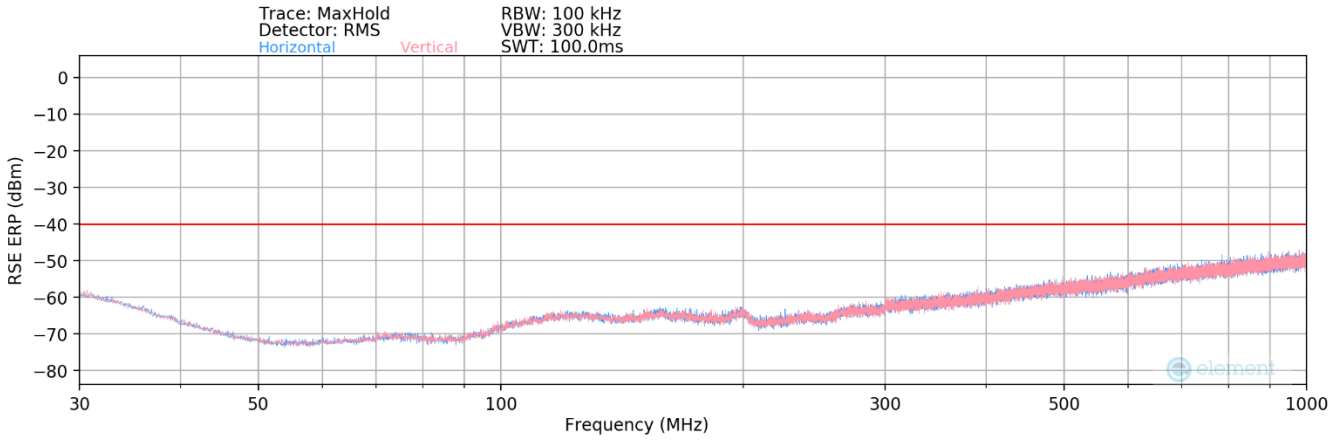
5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

LTE Band 48

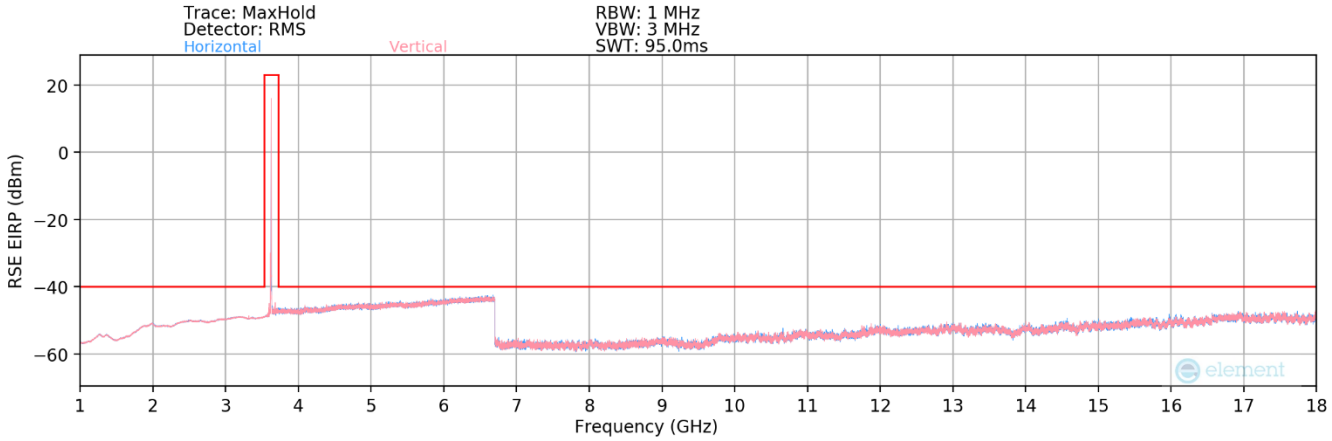


Plot 7-137. Radiated Spurious Plot – 30 MHz-1 GHz (LTE Band 48) – Open

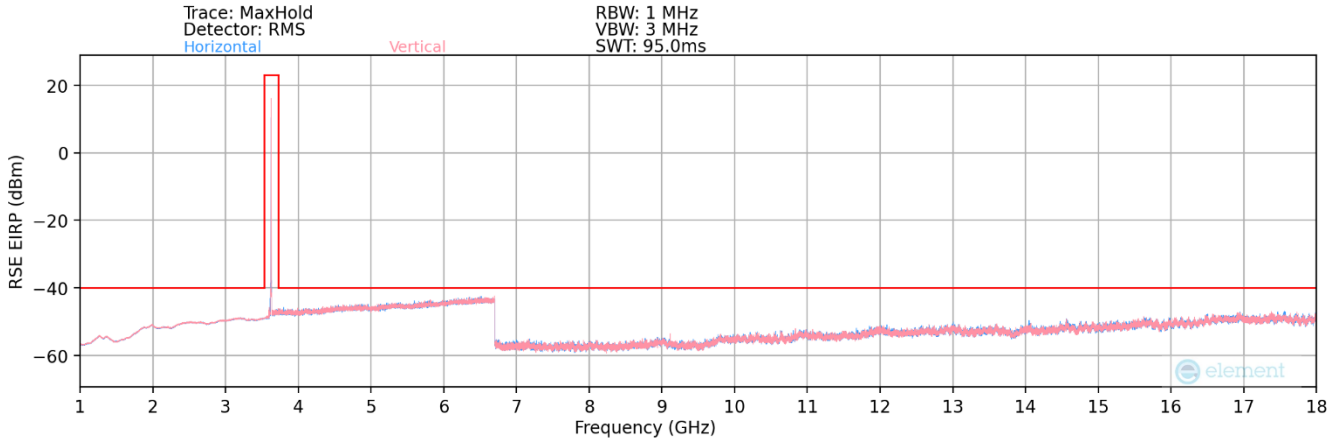
Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
104.5	H	-	-	-85.66	15.77	37.11	-58.15	-40.00	-18.15
222.1	H	-	-	-83.29	18.75	42.46	-52.80	-40.00	-12.80
313.6	H	-	-	-84.70	21.63	43.93	-51.33	-40.00	-11.33

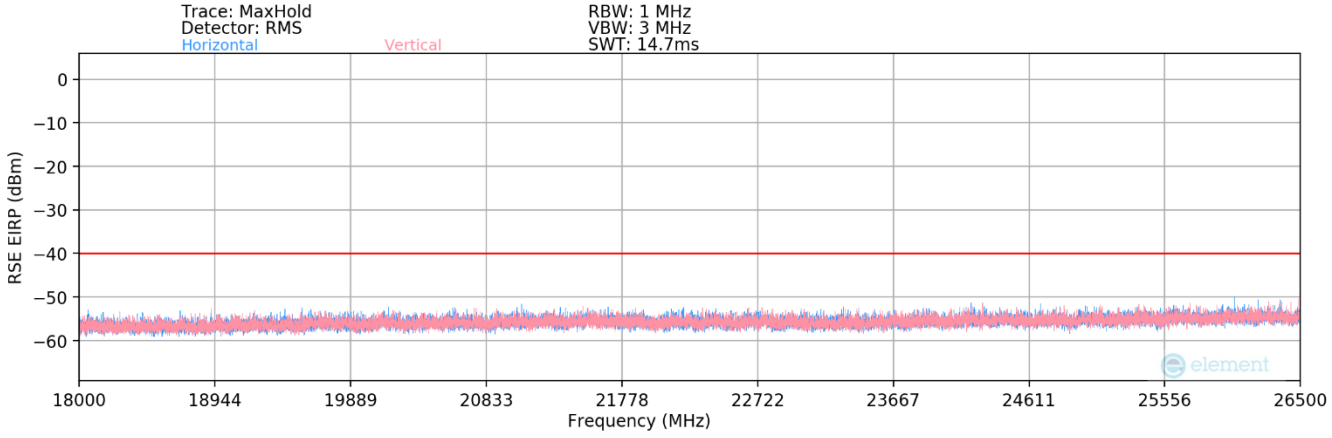
Table 7-16. Radiated Spurious Data (LTE Band 48) – Open



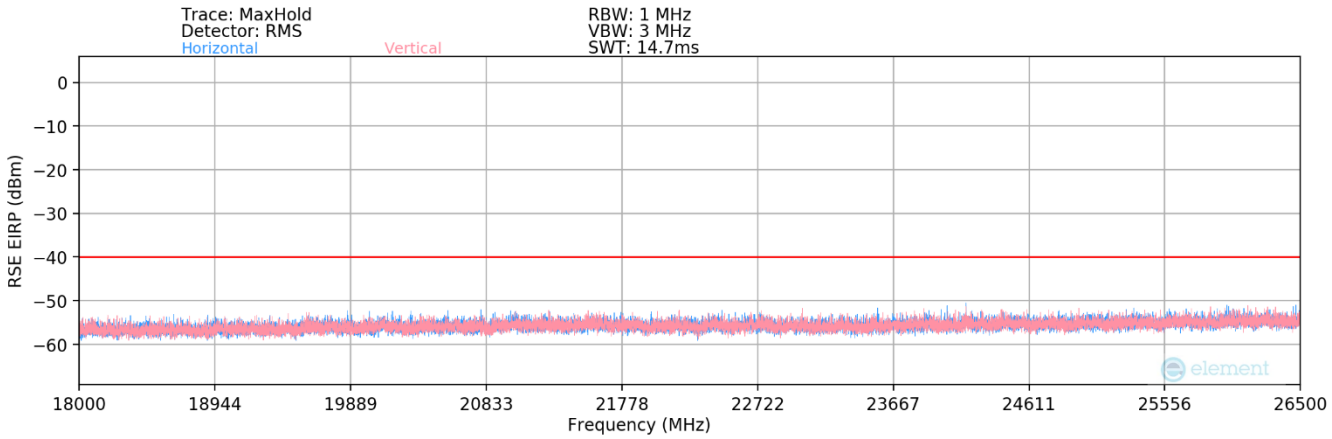
Plot 7-138. Radiated Spurious Plot – 1-18 GHz (LTE Band 48) – Open



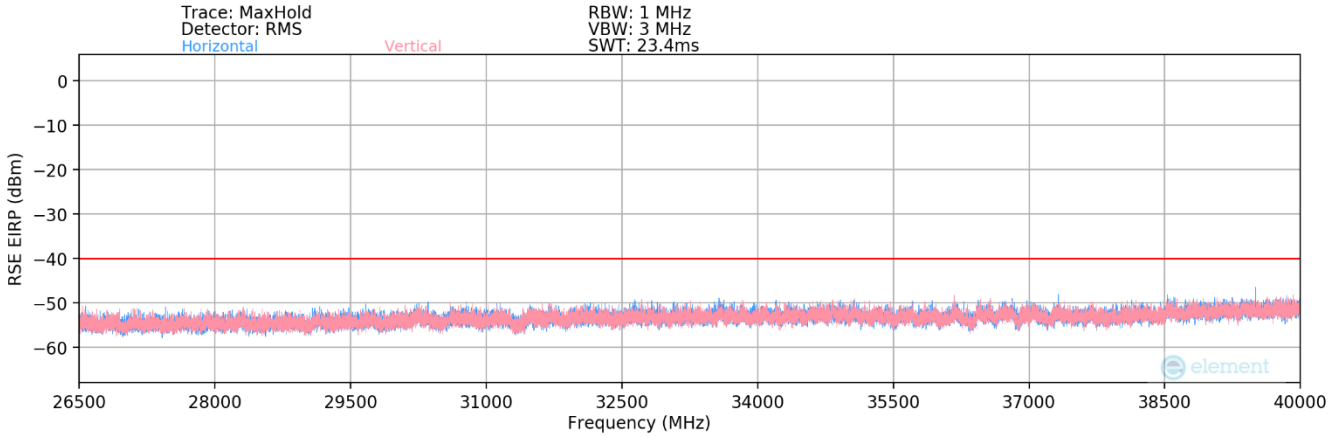
Plot 7-139. Radiated Spurious Plot – 1-18 GHz (LTE Band 48) – Closed



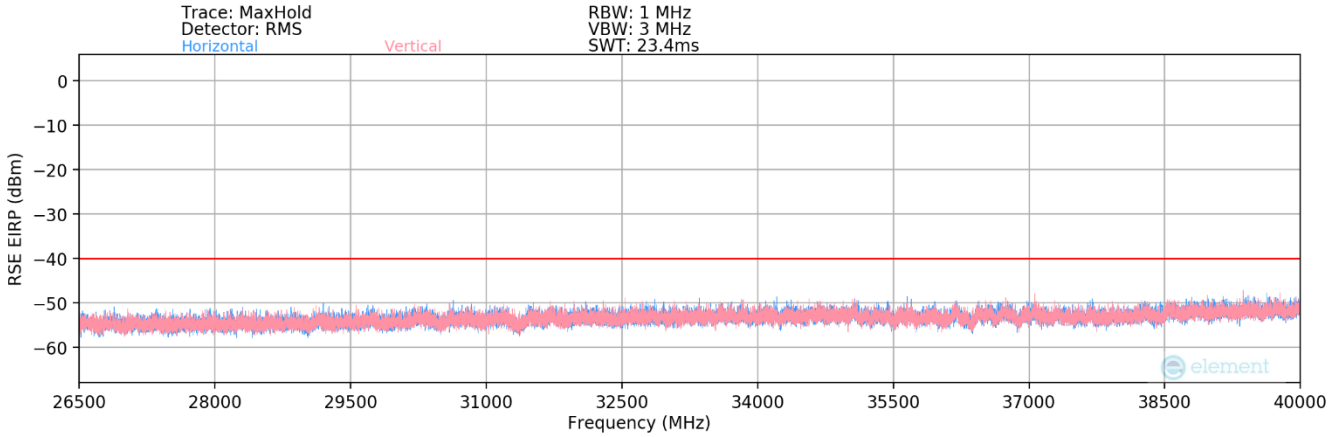
Plot 7-140. Radiated Spurious Plot – 18-26.5 GHz (LTE Band 48) – Open



Plot 7-141. Radiated Spurious Plot – 18-26.5 GHz (LTE Band 48) – Closed



Plot 7-142. Radiated Spurious Plot – 16.5-40 GHz (LTE Band 48) – Open



Plot 7-143. Radiated Spurious Plot – 26.5-40 GHz (LTE Band 48) – Closed

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7120.0	H	382	123	-76.47	8.23	38.76	-56.50	-40.00	-16.50
10680.0	H	-	-	-79.46	12.63	40.17	-55.09	-40.00	-15.09
14240.0	H	-	-	-78.77	15.38	43.61	-51.65	-40.00	-11.65
17800.0	H	-	-	-79.34	18.10	45.76	-49.50	-40.00	-9.50

Table 7-17. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.0	H	309	131	-74.91	7.61	39.70	-55.56	-40.00	-15.56
10875.0	H	295	152	-78.01	12.18	41.17	-54.08	-40.00	-14.08
14500.0	H	-	-	-79.29	15.49	43.20	-52.06	-40.00	-12.06
18125.0	H	-	-	-58.28	1.45	50.17	-54.63	-40.00	-14.63
21750.0	H	-	-	-58.99	3.79	51.80	-53.00	-40.00	-13.00

Table 7-18. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7380.0	H	164	245	-76.07	8.30	39.23	-56.02	-40.00	-16.02
11070.0	H	276	248	-73.31	12.57	46.26	-49.00	-40.00	-9.00
14760.0	H	-	-	-79.41	16.23	43.82	-51.44	-40.00	-11.44
18450.0	H	-	-	-57.66	1.91	51.25	-53.55	-40.00	-13.55
22140.0	H	-	-	-58.46	3.85	52.39	-52.41	-40.00	-12.41

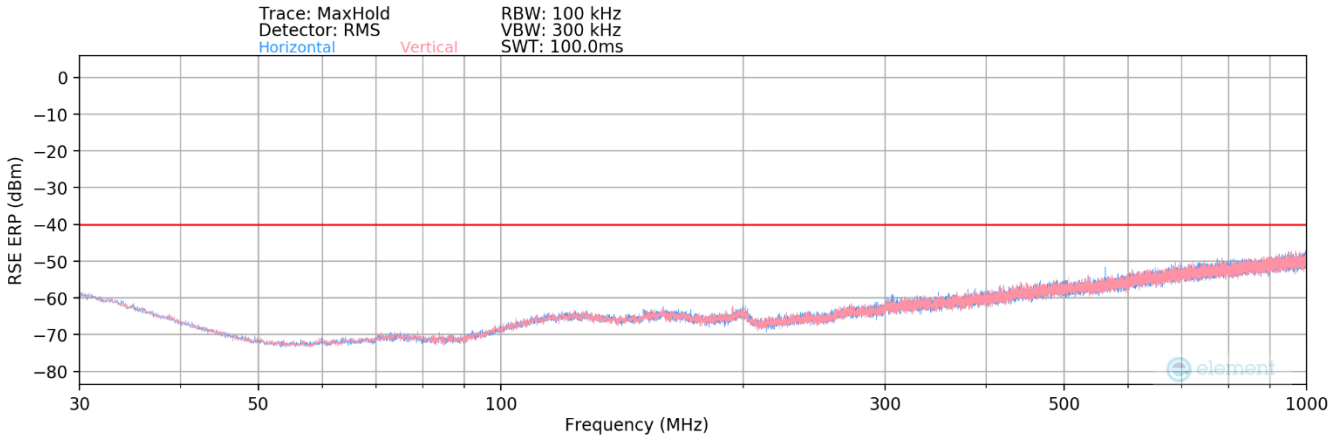
Table 7-19. Radiated Spurious Data (LTE Band 48 – High Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

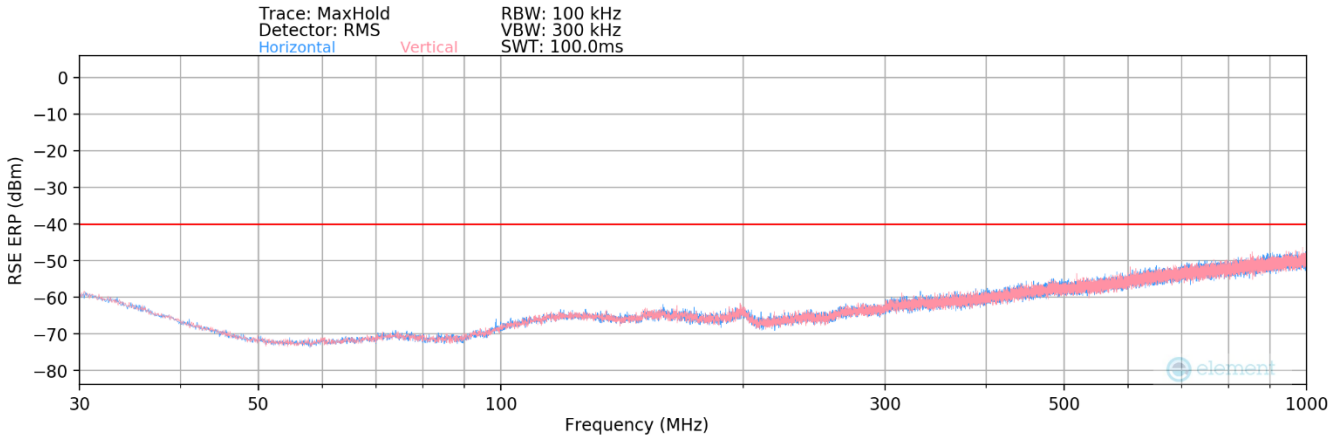
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7380.0	H	221	102	-76.21	8.30	39.09	-56.16	-40.00	-16.16
11070.0	H	214	193	-74.83	12.57	44.74	-50.52	-40.00	-10.52
14760.0	H	-	-	-79.13	16.23	44.10	-51.16	-40.00	-11.16
18450.0	H	-	-	-58.02	1.91	50.89	-44.37	-40.00	-4.37
22140.0	H	-	-	-58.23	3.85	52.62	-42.64	-40.00	-2.64

Table 7-20. Radiated Spurious Data with WCP (LTE Band 48)

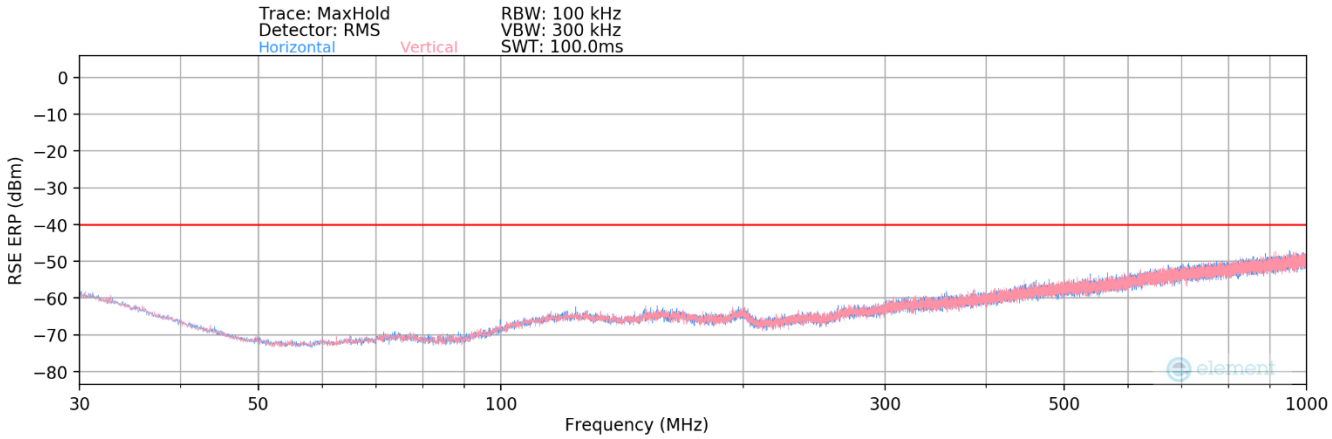
ULCA LB48



Plot 7-144. Radiated Spurious Plot – 30 MHz-1 GHz (ULCA LB48 – Low Channel) – Open



Plot 7-145. Radiated Spurious Plot – 30 MHz-1 GHz (ULCA LB48 – Mid Channel) – Open

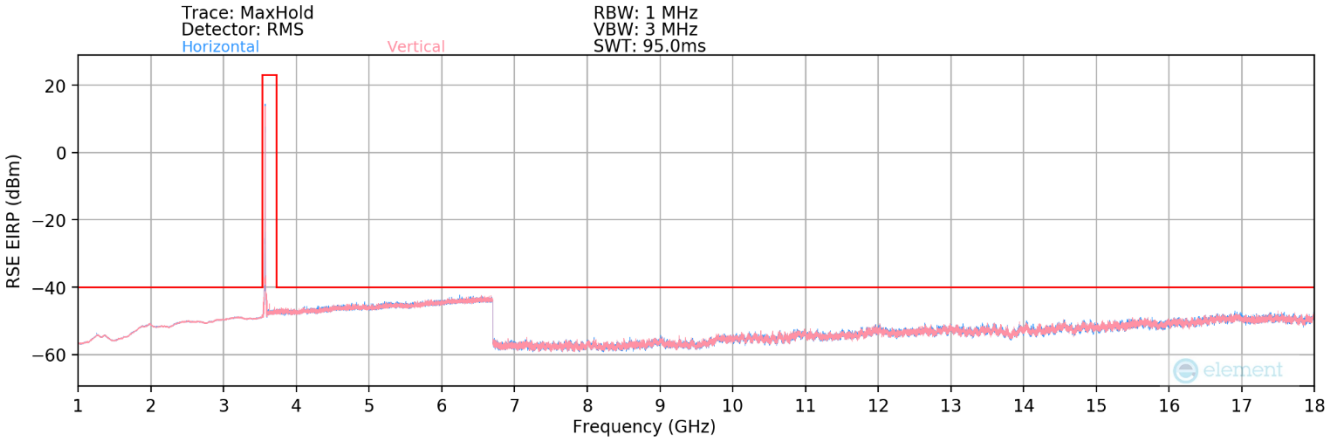


Plot 7-146. Radiated Spurious Plot – 30 MHz-1 GHz (ULCA LB48 – High Channel) – Open

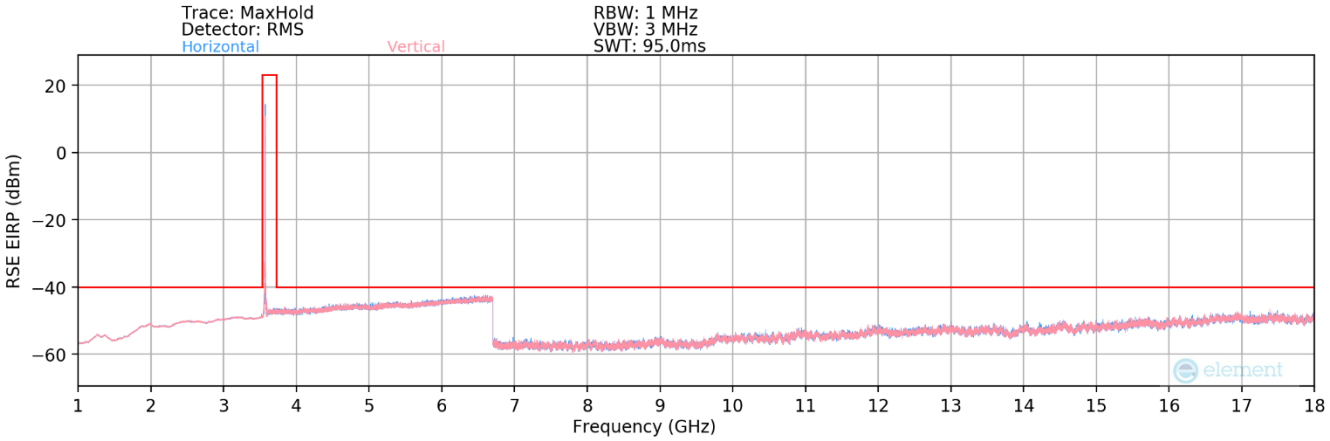
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
101.6	H	-	-	-85.63	17.66	39.03	-56.23	-40.00	-16.23
197.5	H	-	-	-85.33	20.11	41.78	-53.48	-40.00	-13.48
501.3	H	-	-	-84.10	25.73	48.63	-46.63	-40.00	-6.63

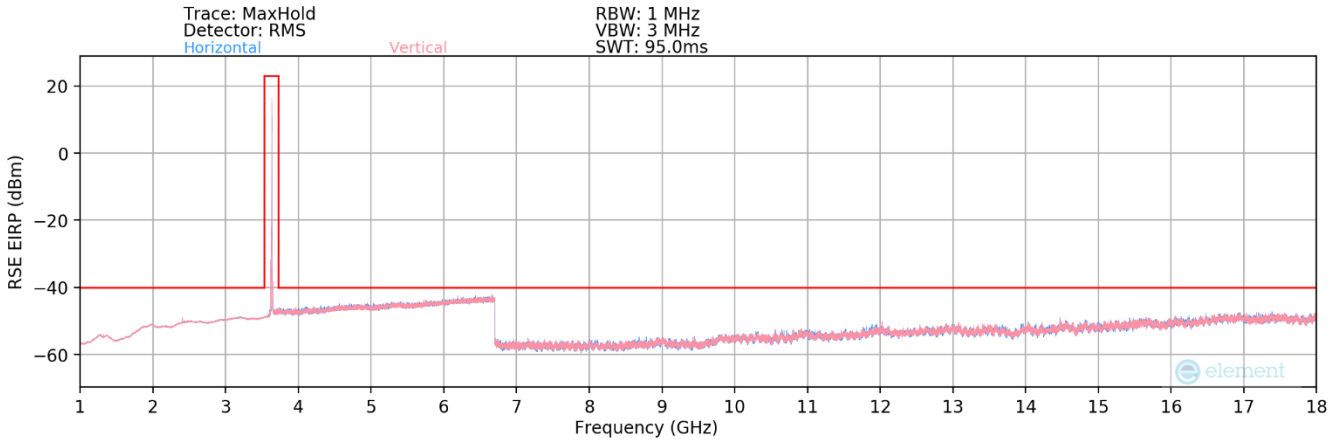
Table 7-21. Radiated Spurious Data (ULCA LB48)



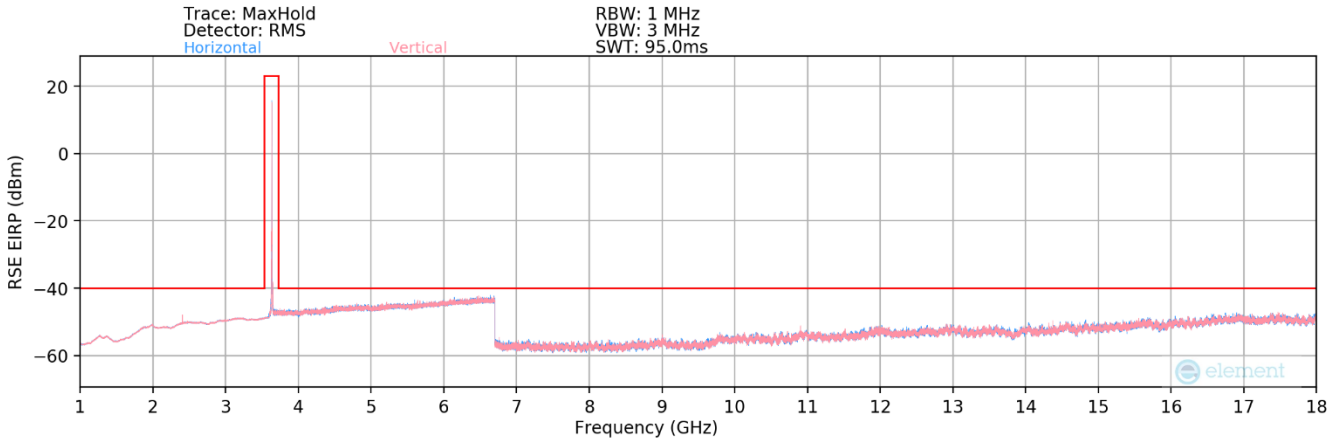
Plot 7-147. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Low Channel) – Open



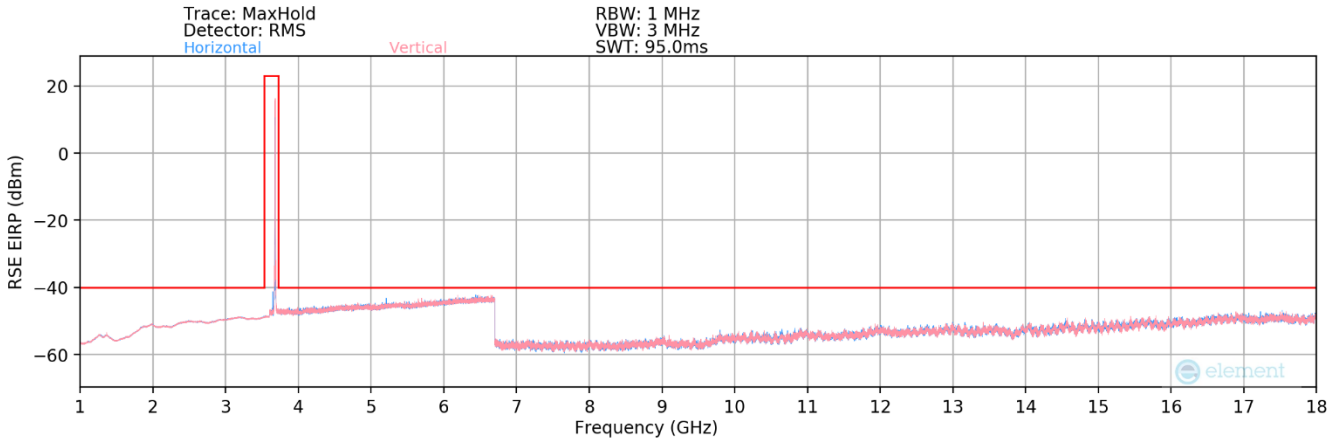
Plot 7-148. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Low Channel) – Closed



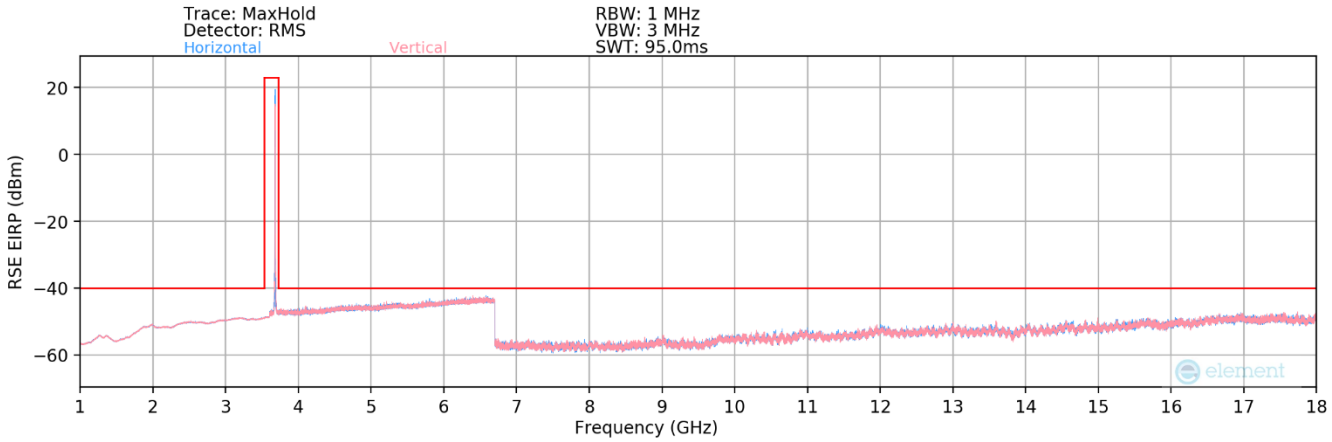
Plot 7-149. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Mid Channel) – Open



Plot 7-150. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Mid Channel) – Closed



Plot 7-151. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – High Channel) – Open



Plot 7-152. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – High Channel) – Closed

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7120.0	H	-	-	-77.88	8.23	37.35	-57.91	-40.00	-17.91
10680.0	H	-	-	-78.49	12.63	41.14	-54.12	-40.00	-14.12
14240.0	H	-	-	-79.21	15.38	43.17	-52.09	-40.00	-12.09
17800.0	H	-	-	-80.38	18.10	44.72	-50.54	-40.00	-10.54

Table 7-22. Radiated Spurious Data (ULCA LB48 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.0	H	271	115	-72.51	7.61	42.10	-53.16	-40.00	-13.16
10875.0	H	-	-	-78.90	12.18	40.28	-54.97	-40.00	-14.97
14500.0	H	-	-	-79.51	15.49	42.98	-52.28	-40.00	-12.28

Table 7-23. Radiated Spurious Data (ULCA LB48 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7380.0	H	322	118	-73.65	8.30	41.65	-53.60	-40.00	-13.60
11070.0	H	-	-	-77.89	12.57	41.68	-53.58	-40.00	-13.58
14760.0	H	-	-	-79.08	16.23	44.15	-51.11	-40.00	-11.11

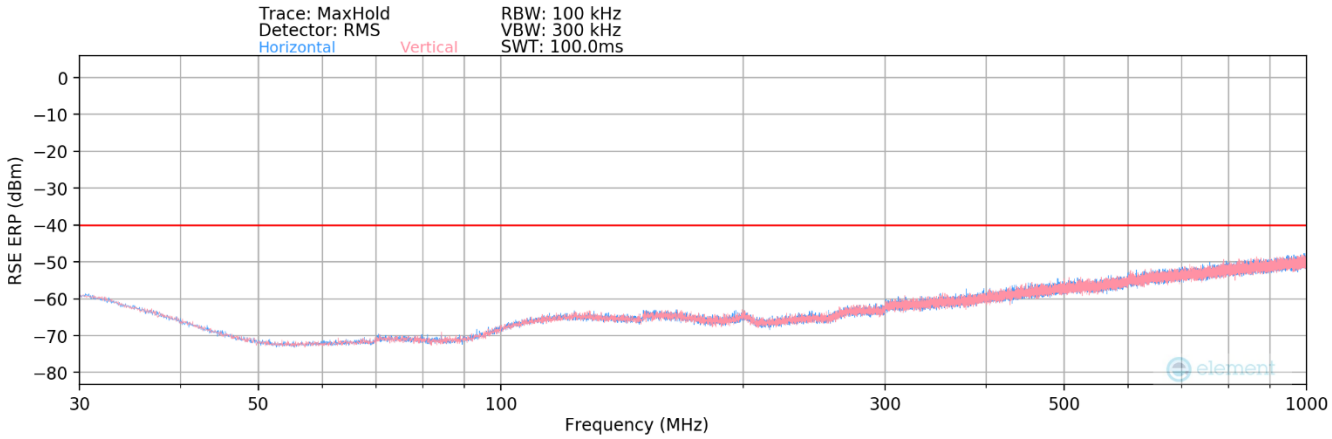
Table 7-24. Radiated Spurious Data (ULCA LB48 – High Channel)

Case:	w/ Wireless Charging Pad
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.0	H	-	-	-76.57	7.61	38.04	-57.22	-40.00	-17.22
10875.0	H	-	-	-78.35	12.18	40.83	-54.42	-40.00	-14.42
14500.0	H	-	-	-79.76	15.49	42.73	-52.53	-40.00	-12.53

Table 7-25. Radiated Spurious Data with WCP (ULCA LB48 – Mid Channel)

NR Band n48 – Ant F

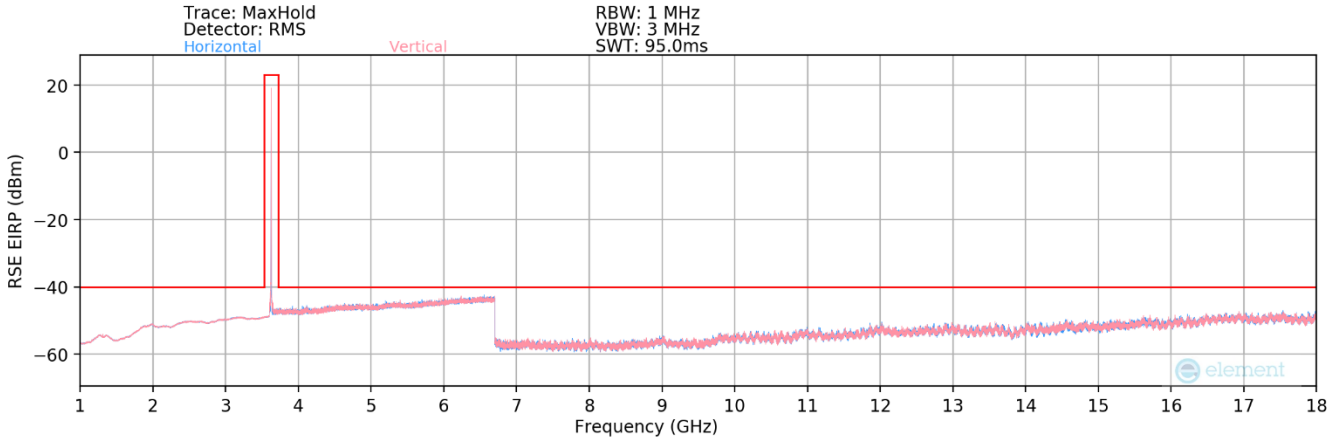


Plot 7-153. Radiated Spurious Plot 30 MHz-1 GHz (NR Band n48– Ant F) – Open

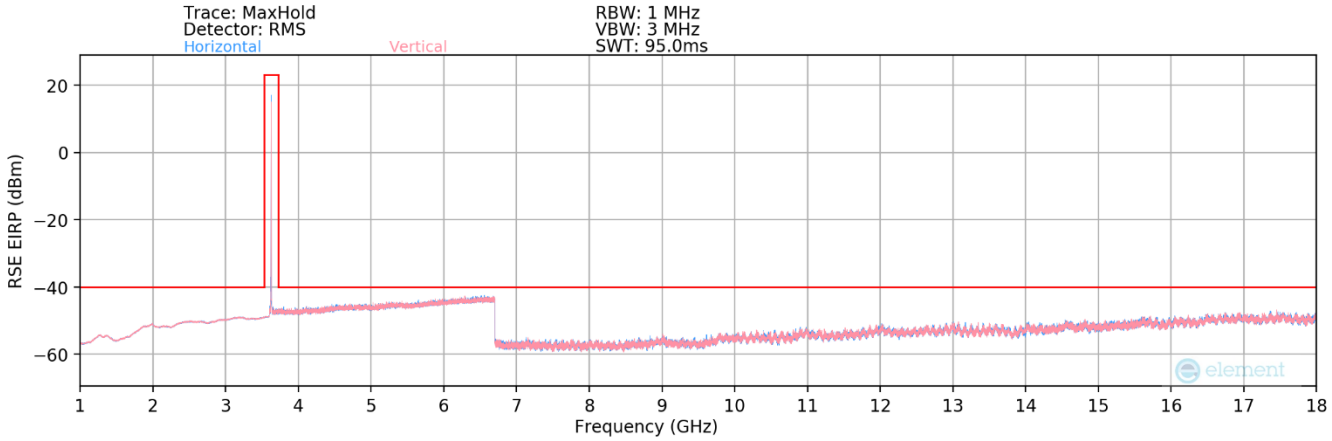
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
75.2	H	-	-	-87.67	14.42	33.75	-61.51	-40.00	-21.51
205.0	H	-	-	-85.82	18.37	39.55	-55.71	-40.00	-15.71
301.4	H	-	-	-86.21	21.16	41.95	-53.31	-40.00	-13.31

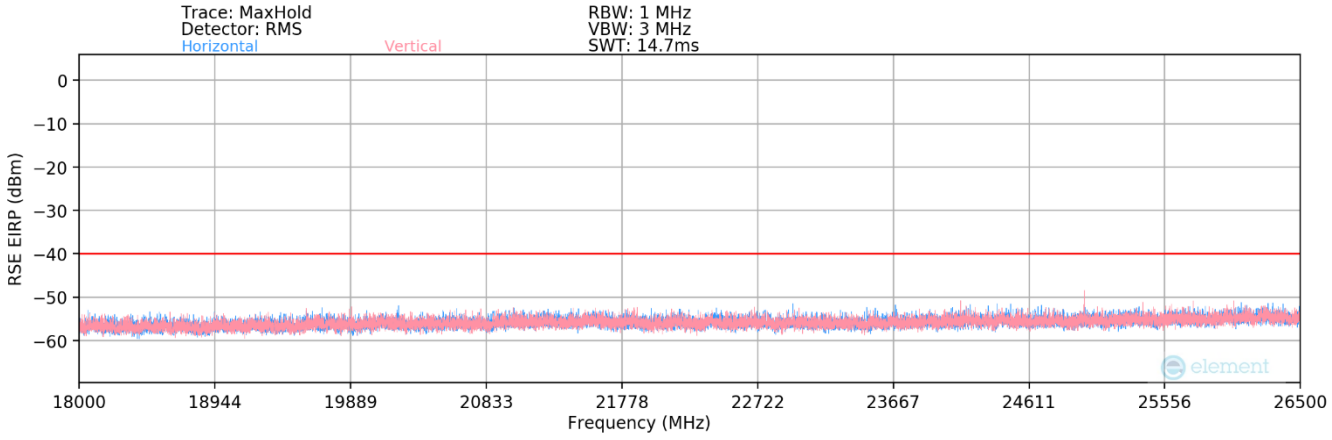
Table 7-26. Radiated Spurious Data (NR Band n48 – Ant F) – Open



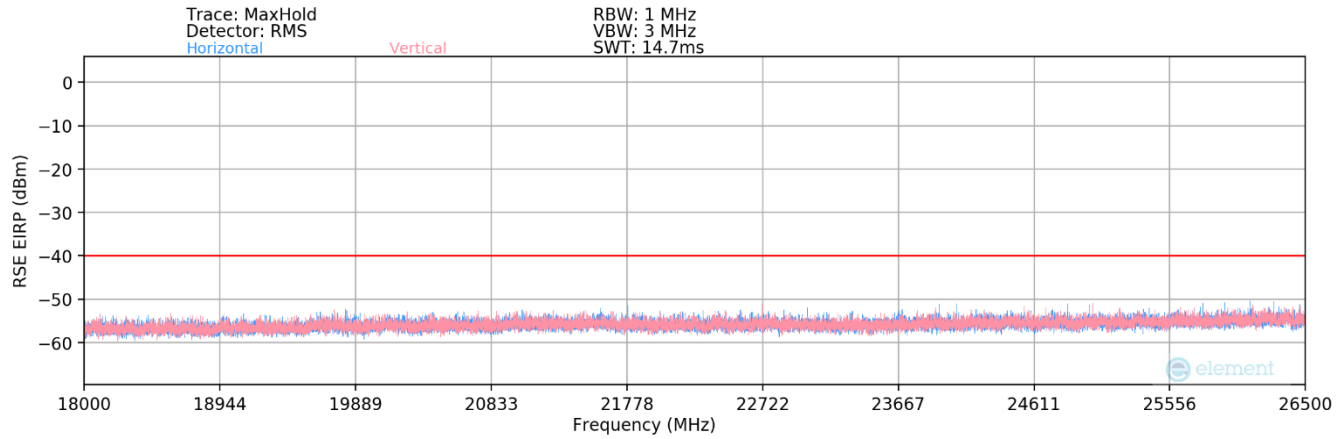
Plot 7-154. Radiated Spurious Plot 1-18 GHz (NR Band n48– Ant F) – Open



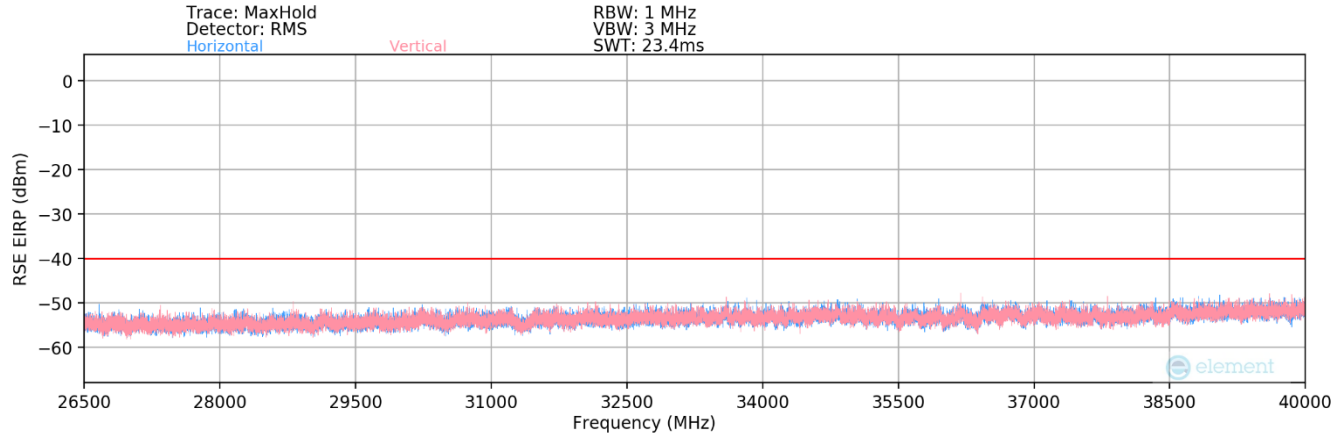
Plot 7-155. Radiated Spurious Plot 1-18 GHz (NR Band n48– Ant F) – Closed



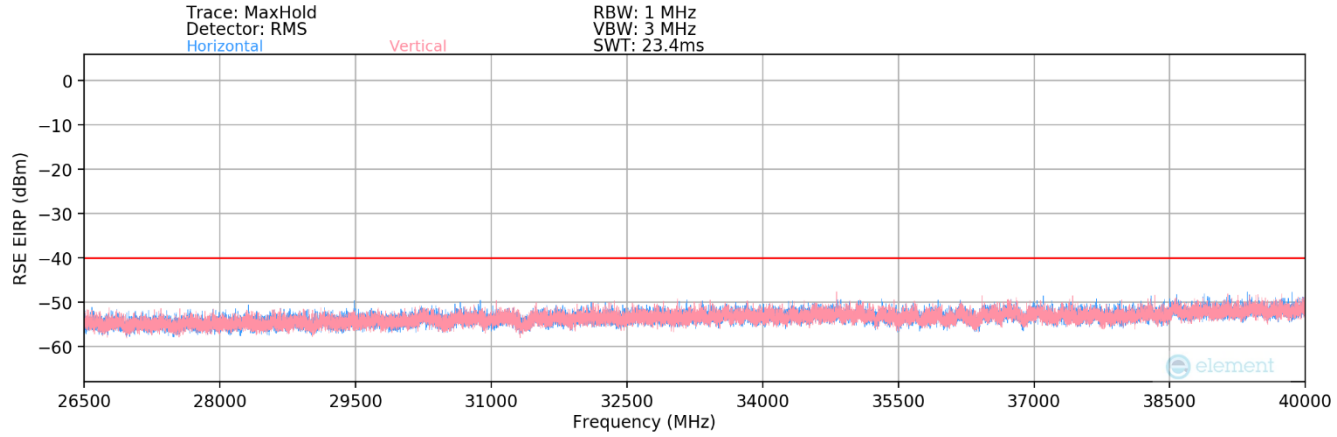
Plot 7-156. Radiated Spurious Plot 18-26.5 GHz (NR Band n48– Ant F) – Open



Plot 7-157. Radiated Spurious Plot 18-26.5 GHz (NR Band n48– Ant F) – Closed



Plot 7-158. Radiated Spurious Plot 26.5-40 GHz (NR Band n48– Ant F) – Open



Plot 7-159. Radiated Spurious Plot 26.5-40 GHz (NR Band n48– Ant F) – Closed

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7140.0	H	397	185	-76.22	8.53	39.31	-55.95	-40.00	-15.95
10710.0	H	-	-	-78.83	12.30	40.47	-54.79	-40.00	-14.79
14280.0	H	-	-	-79.47	14.66	42.19	-53.07	-40.00	-13.07
17850.0	H	-	-	-79.93	18.17	45.24	-50.01	-40.00	-10.01

Table 7-27. Radiated Spurious Data (NR Band n48 – Low Channel - Ant F) – Open

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.0	H	358	181	-75.59	7.61	39.02	-56.24	-40.00	-16.24
10875.0	H	-	-	-77.86	12.18	41.32	-53.93	-40.00	-13.93
14500.0	H	-	-	-78.47	15.49	44.02	-51.24	-40.00	-11.24

Table 7-28. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant F) – Open

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7360.0	H	354	223	-74.73	8.16	40.43	-54.83	-40.00	-14.83
11040.0	H	-	-	-78.27	12.33	41.06	-54.19	-40.00	-14.19
14720.0	H	-	-	-79.63	16.13	43.50	-51.76	-40.00	-11.76

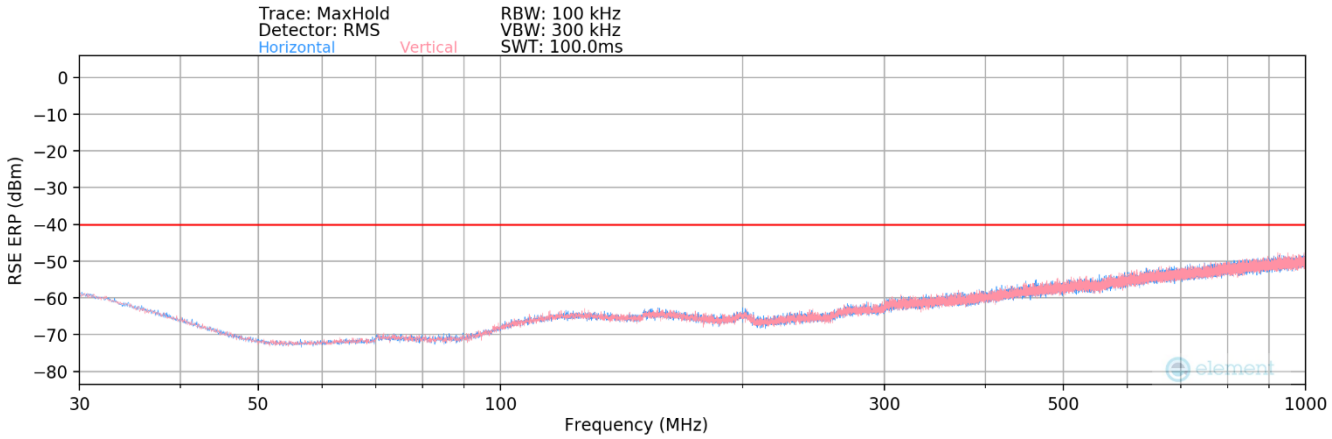
Table 7-29. Radiated Spurious Data (NR Band n48 – High Channel - Ant F) – Open

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7360.0	H	346	235	-76.68	8.16	38.48	-56.78	-40.00	-16.78
11040.0	H	-	-	-78.33	12.33	41.00	-54.25	-40.00	-14.25
14720.0	H	-	-	-79.65	16.13	43.48	-51.78	-40.00	-11.78

Table 7-30. Radiated Spurious Data with WCP (NR Band n48 – Ant F) – Open

NR Band n48 – Ant I

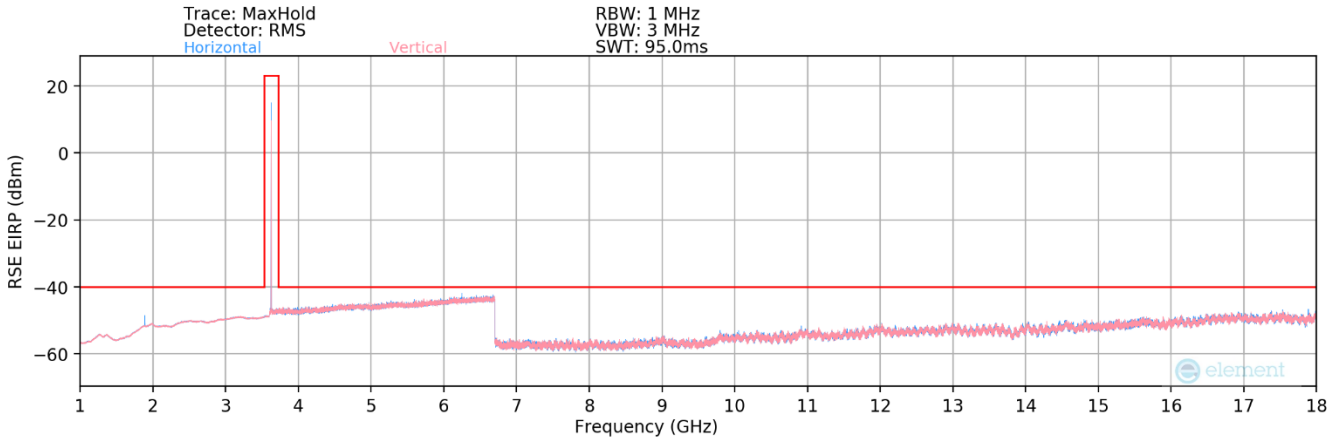


Plot 7-160. Radiated Spurious Plot 30 MHz-1 GHz (NR Band n48– Ant I) – Open

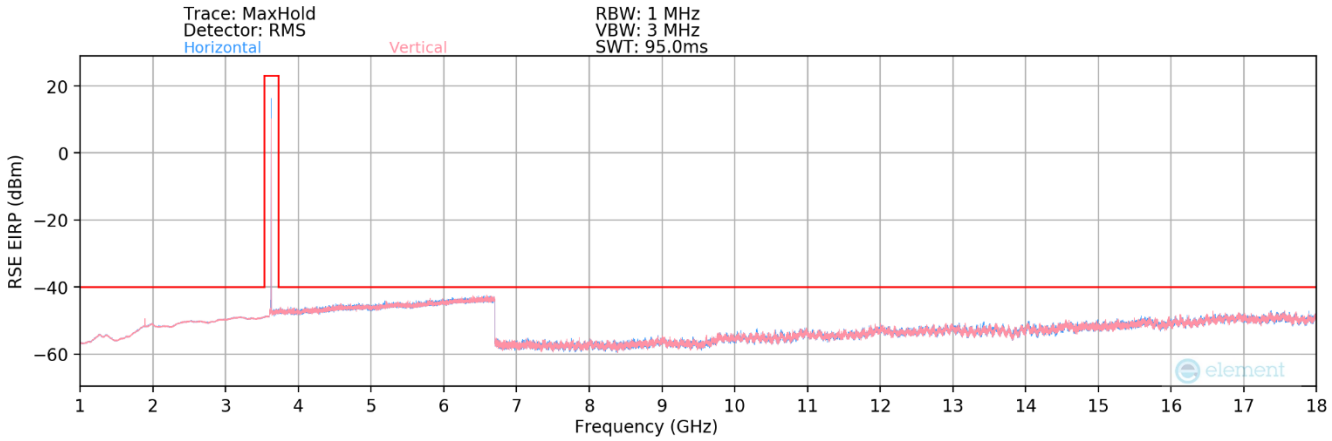
Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
61.21	H	-	-	-86.81	14.09	34.28	-60.98	-40.00	-20.98
104.88	H	-	-	-86.45	18.43	38.98	-56.27	-40.00	-16.27
199.47	H	-	-	-85.67	19.23	40.56	-54.70	-40.00	-14.70

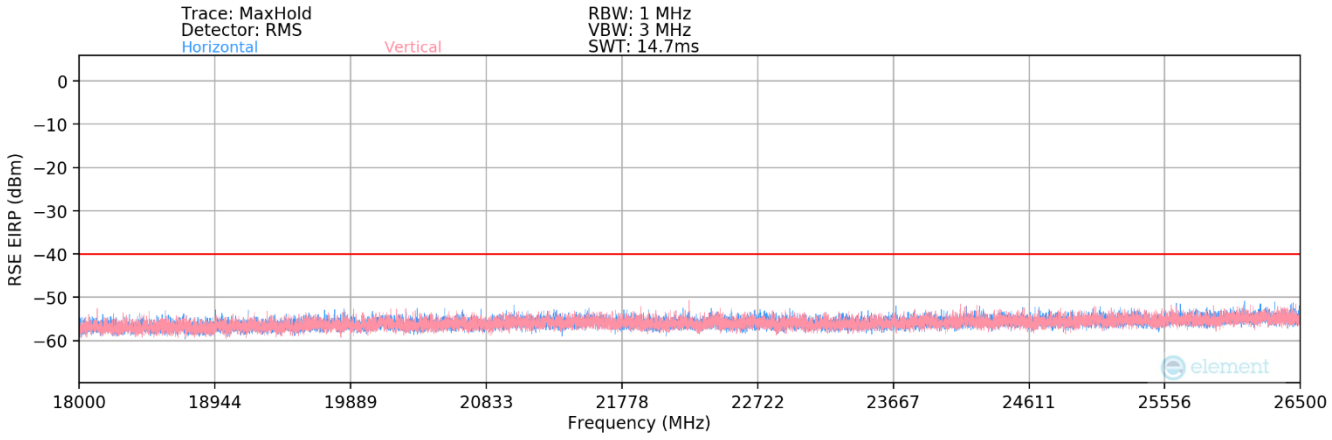
Table 7-31. Radiated Spurious Data (NR Band n48 – Ant I) – Open



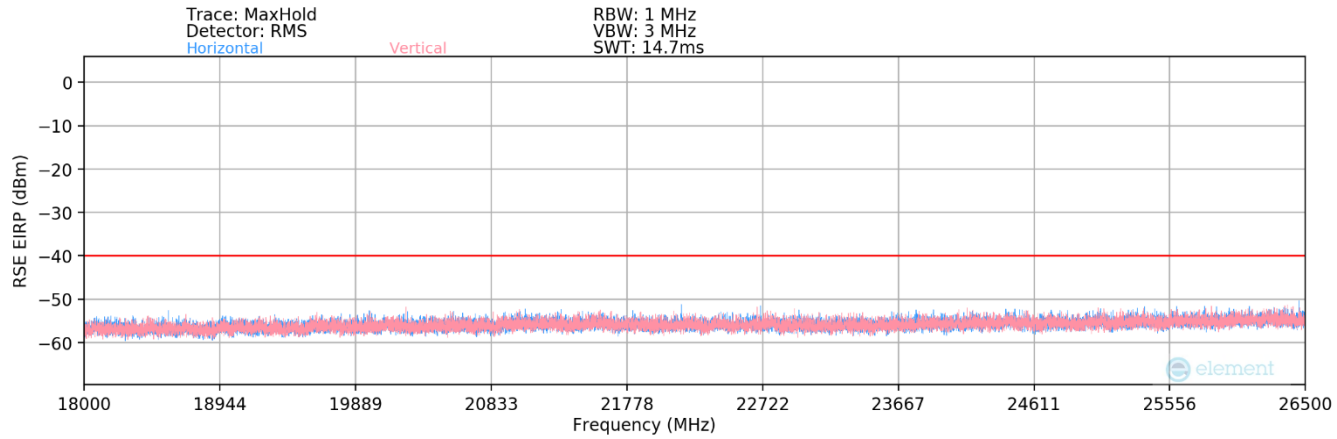
Plot 7-161. Radiated Spurious Plot 1-18 GHz (NR Band n48– Ant I) – Open



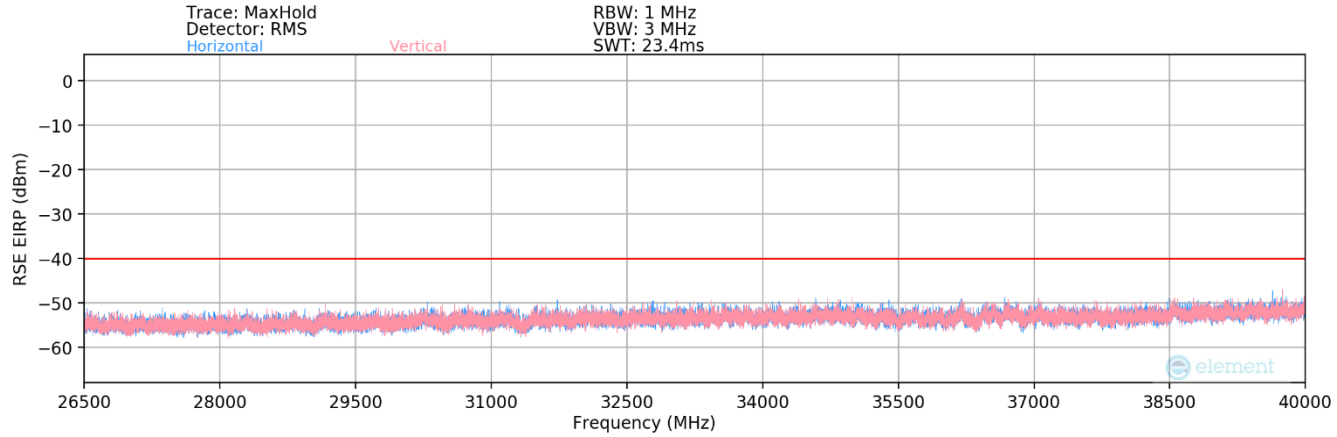
Plot 7-162. Radiated Spurious Plot 1-18 GHz (NR Band n48– Ant I) – Closed



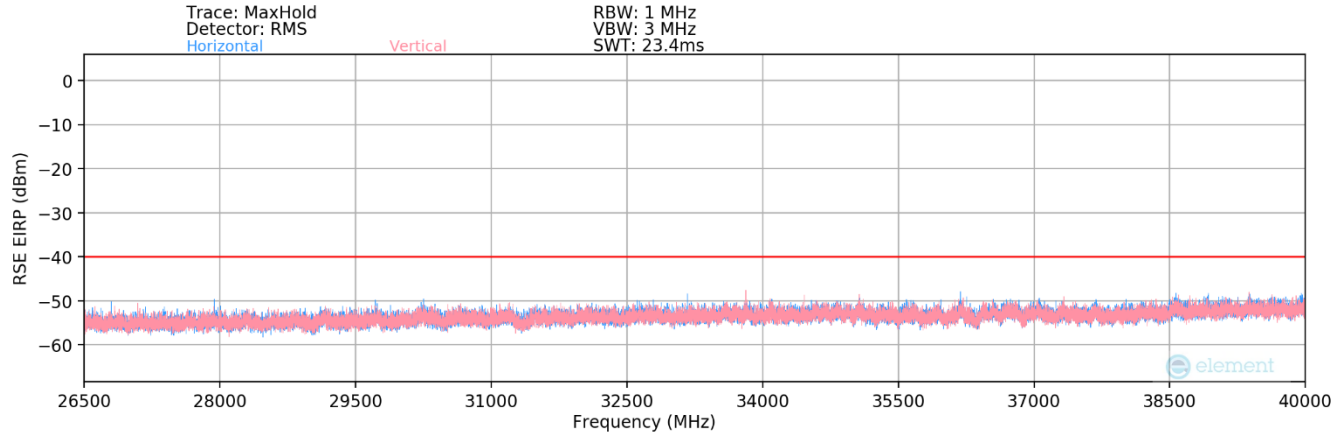
Plot 7-163. Radiated Spurious Plot 18-26.5 GHz (NR Band n48– Ant I) – Open



Plot 7-164. Radiated Spurious Plot 18-26.5 GHz (NR Band n48– Ant I) – Closed



Plot 7-165. Radiated Spurious Plot 26.5-40 GHz (NR Band n48– Ant I) – Open



Plot 7-166. Radiated Spurious Plot 26.5-40 GHz (NR Band n48– Ant I) – Closed

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7140.00	H	280.00	301.00	-75.96	8.53	39.57	-55.69	-40.00	-15.69
10710.00	H	-	-	-78.61	12.30	40.69	-54.57	-40.00	-14.57
14280.00	H	-	-	-78.21	14.66	43.45	-51.81	-40.00	-11.81
17850.00	H	-	-	-79.86	18.17	45.31	-49.94	-40.00	-9.94

Table 7-32. Radiated Spurious Data (NR Band n48 – Low Channel – Ant I) – Open

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	H	262.00	307.00	-74.98	7.61	39.63	-55.63	-40.00	-15.63
10875.00	H	-	-	-78.25	12.18	40.93	-54.32	-40.00	-14.32
14500.00	H	-	-	-79.86	15.49	42.63	-52.63	-40.00	-12.63

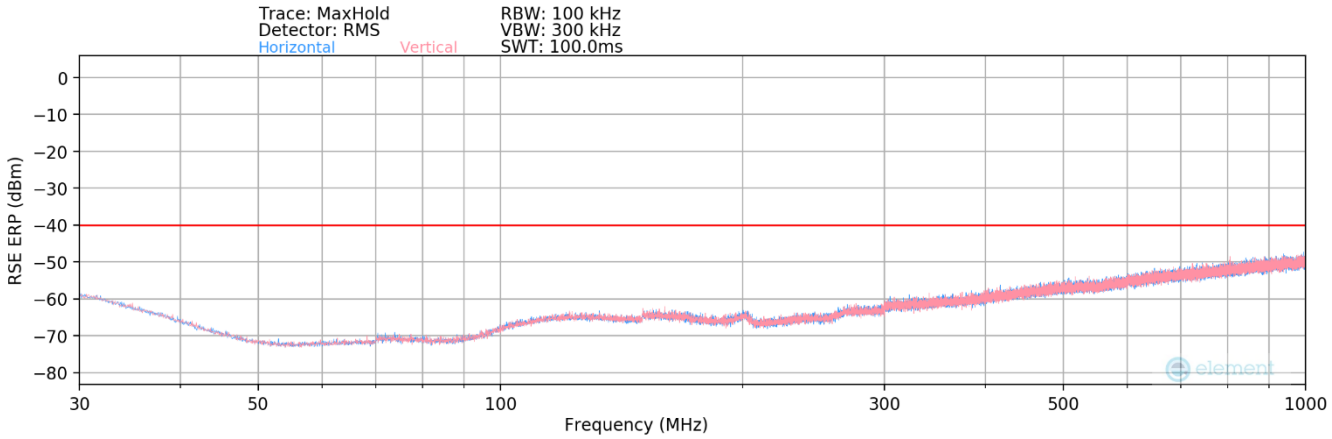
Table 7-33. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant I) – Open

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7360.00	H	276.00	310.00	-75.63	8.16	39.53	-55.73	-40.00	-15.73
11040.00	H	-	-	-78.57	12.33	40.76	-54.49	-40.00	-14.49
14720.00	H	-	-	-78.93	16.13	44.20	-51.06	-40.00	-11.06

Table 7-34. Radiated Spurious Data (NR Band n48 – High Channel – Ant I) – Open

NR Band n48 – Ant E

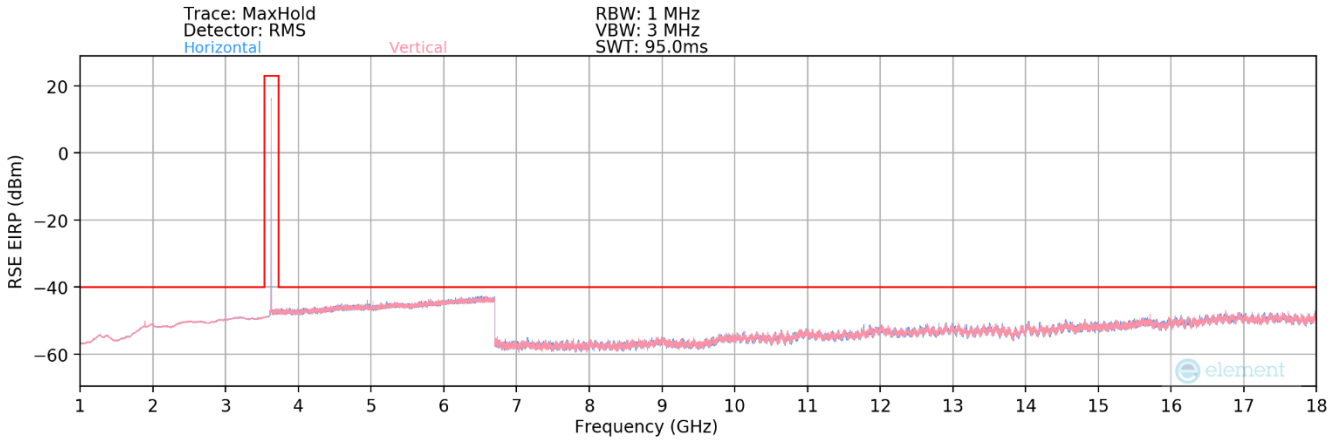


Plot 7-167. Radiated Spurious Plot 30 MHz-1 GHz (NR Band n48– Ant E) – Open

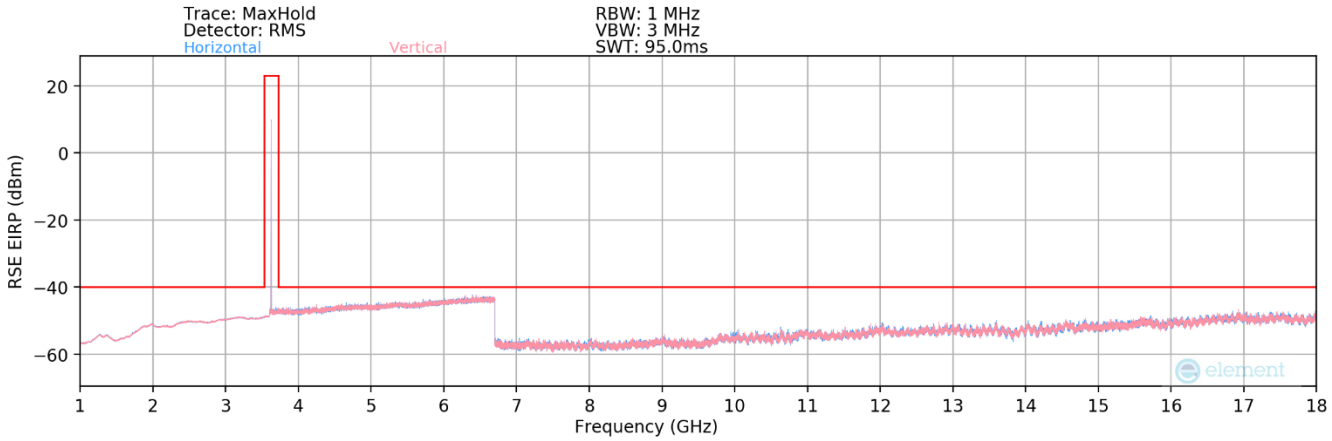
Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
108.51	H	-	-	-85.51	19.03	40.52	-54.74	-40.00	-14.74
308.00	H	-	-	-86.49	21.17	41.68	-53.58	-40.00	-13.58
390.38	H	-	-	-86.47	22.80	43.33	-51.93	-40.00	-11.93

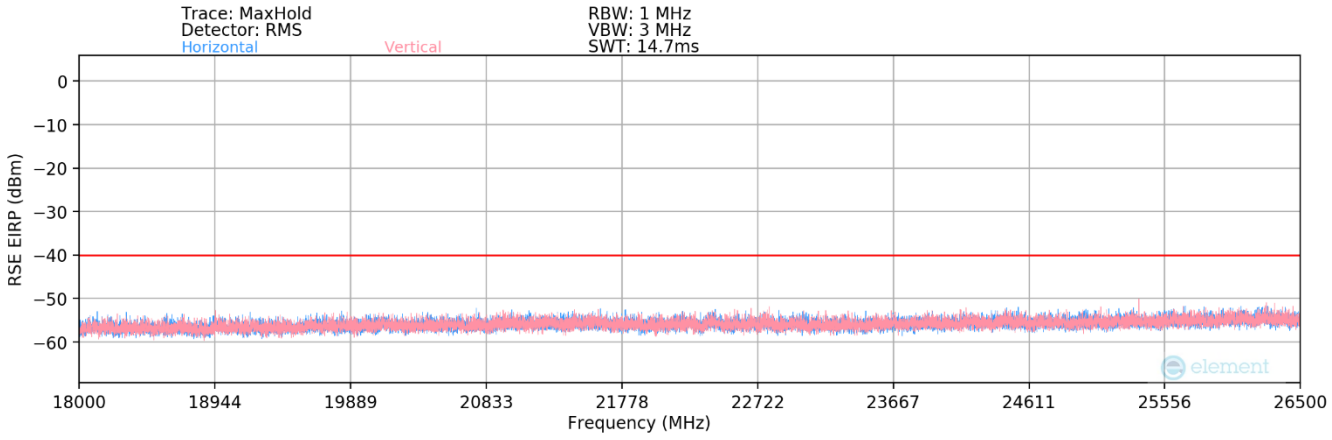
Table 7-35. Radiated Spurious Data (NR Band n48 – Ant E) – Open



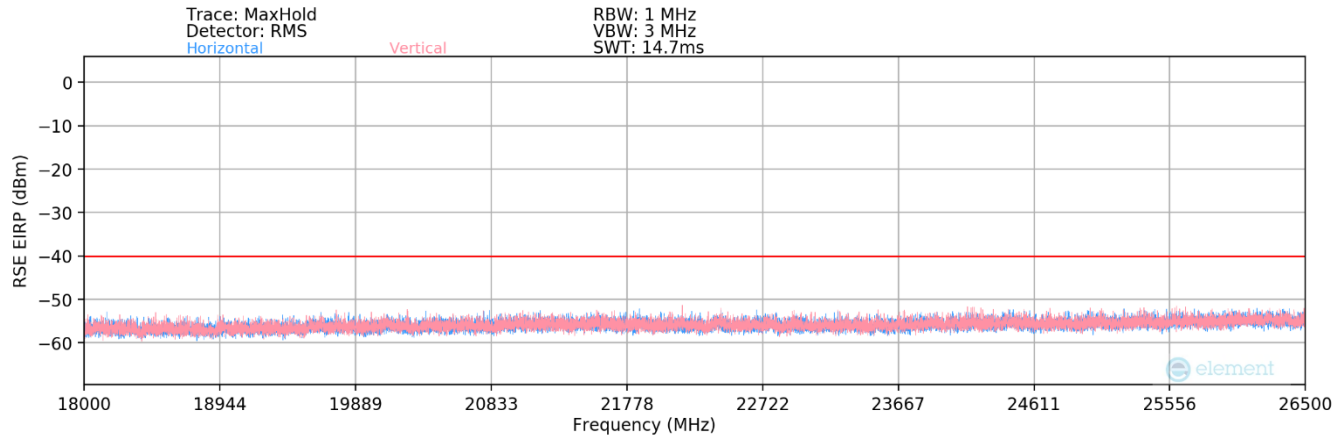
Plot 7-168. Radiated Spurious Plot 1-18 GHz (NR Band n48– Ant E) – Open



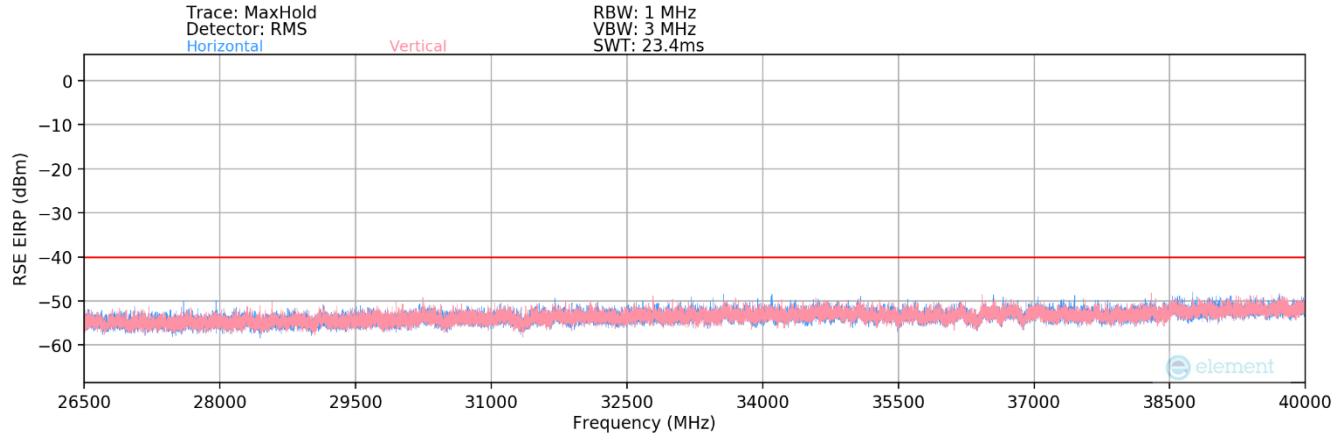
Plot 7-169. Radiated Spurious Plot 1-18 GHz (NR Band n48– Ant E) – Closed



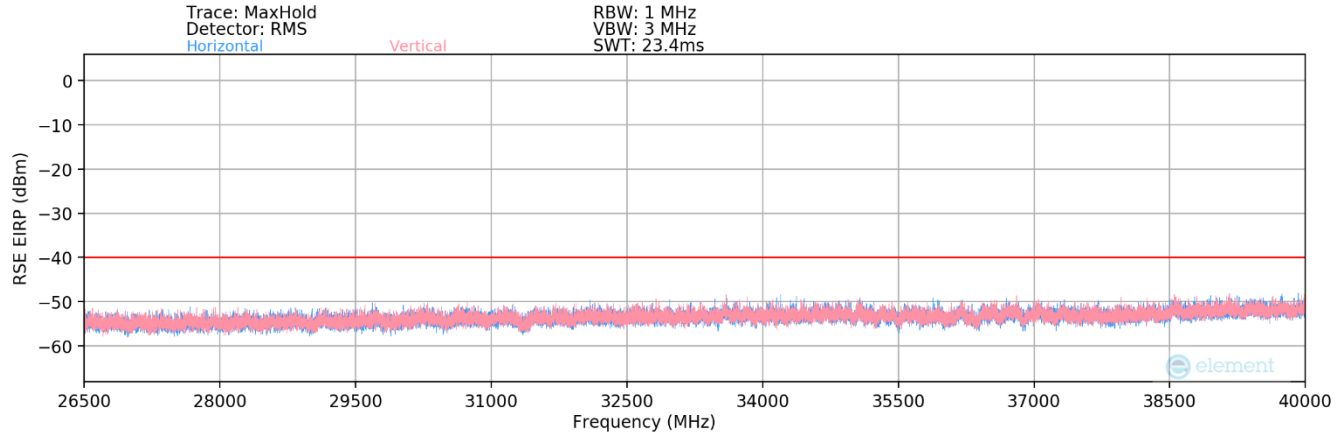
Plot 7-170. Radiated Spurious Plot 18-26.5 GHz (NR Band n48– Ant E) – Open



Plot 7-171. Radiated Spurious Plot 18-26.5 GHz (NR Band n48– Ant E) – Closed



Plot 7-172. Radiated Spurious Plot 26.5-40 GHz (NR Band n48– Ant E) – Open



Plot 7-173. Radiated Spurious Plot 26.5-40 GHz (NR Band n48– Ant E) – Closed

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7140.00	H	-	-	-76.87	8.53	38.66	-56.60	-40.00	-16.60
10710.00	H	-	-	-78.18	12.30	41.12	-54.14	-40.00	-14.14
14280.00	H	-	-	-78.75	14.66	42.91	-52.35	-40.00	-12.35
17850.00	H	-	-	-79.71	18.17	45.46	-49.79	-40.00	-9.79

Table 7-36. Radiated Spurious Data (NR Band n48 – Low Channel – Ant E) – Open

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	H	-	-	-76.75	7.61	37.86	-57.40	-40.00	-17.40
10875.00	H	-	-	-78.12	12.18	41.06	-54.19	-40.00	-14.19
14500.00	H	-	-	-79.26	15.49	43.23	-52.03	-40.00	-12.03

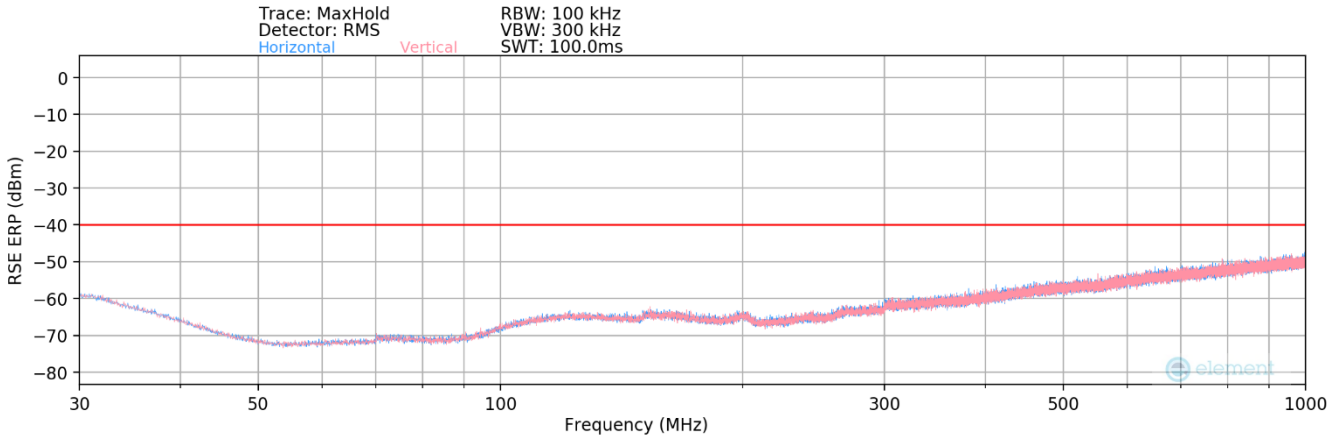
Table 7-37. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant E) – Open

Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7360.00	H	-	-	-76.95	8.16	38.21	-57.05	-40.00	-17.05
11040.00	H	-	-	-78.03	12.33	41.30	-53.95	-40.00	-13.95
14720.00	H	-	-	-79.41	16.13	43.72	-51.54	-40.00	-11.54

Table 7-38. Radiated Spurious Data (NR Band n48 – High Channel – Ant E) – Open

NR Band n48 – Ant C



Plot 7-174. Radiated Spurious Plot 30 MHz-1 GHz (NR Band n48– Ant C) – Open

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
67.05	H	-	-	-86.63	14.40	34.77	-60.49	-40.00	-20.49
155.32	H	-	-	-86.37	19.54	40.17	-55.09	-40.00	-15.09
241.58	H	-	-	-85.96	18.70	39.74	-55.51	-40.00	-15.51

Table 7-39. Radiated Spurious Data (NR Band n48 – Ant C) – Open