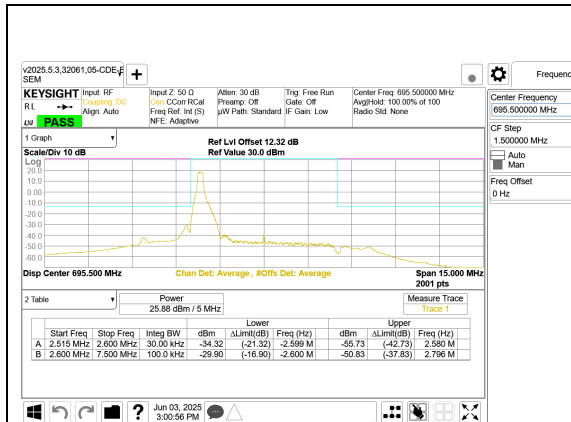
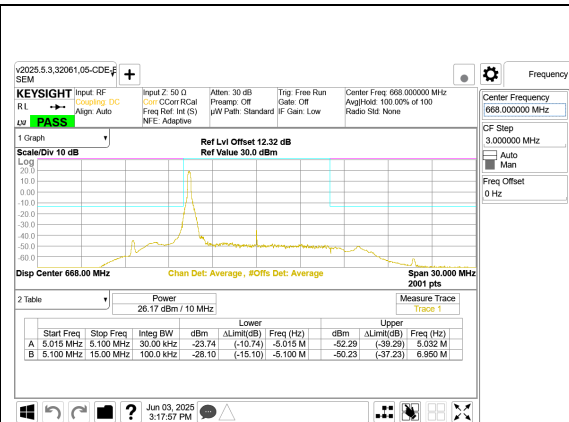
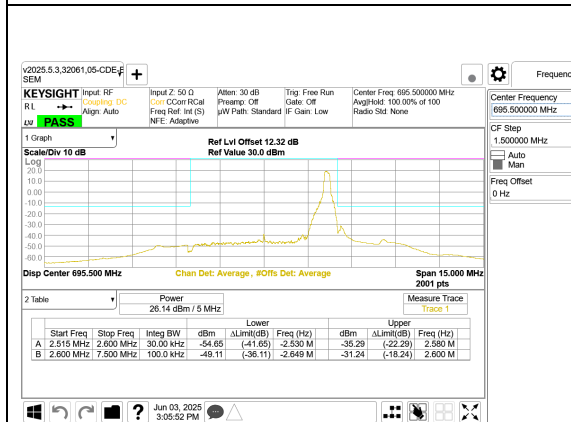




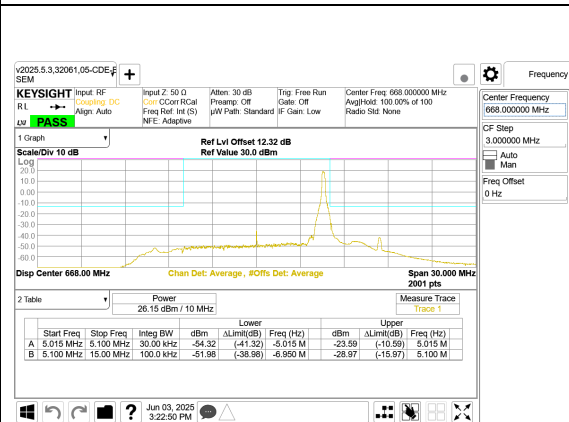
5G NR n71 5MHz BPSK High Channel RB1-0



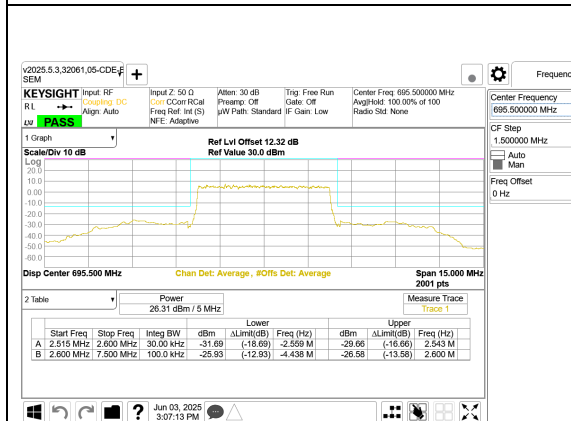
5G NR n71 10MHz BPSK Low Channel RB1-0



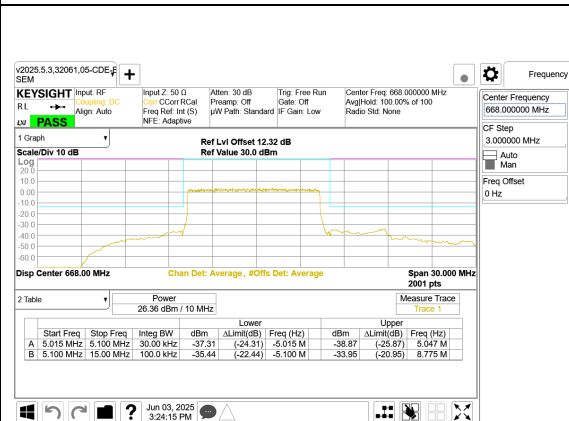
5G NR n71 5MHz BPSK High Channel RB1-24



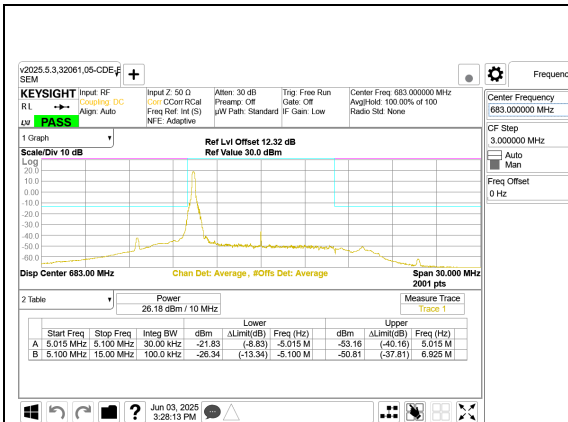
5G NR n71 10MHz BPSK Low Channel RB1-51



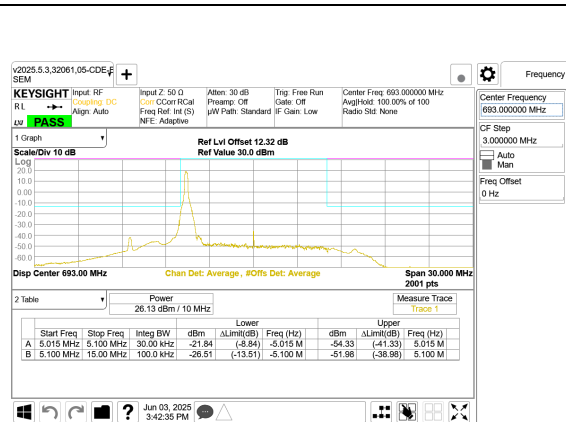
5G NR n71 5MHz BPSK High Channel RB25-0



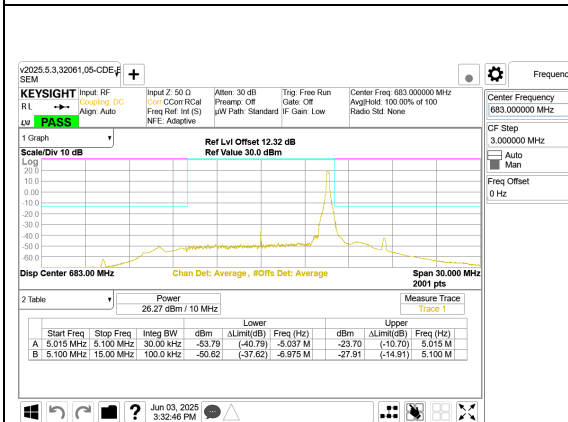
5G NR n71 10MHz BPSK Low Channel RB50-0



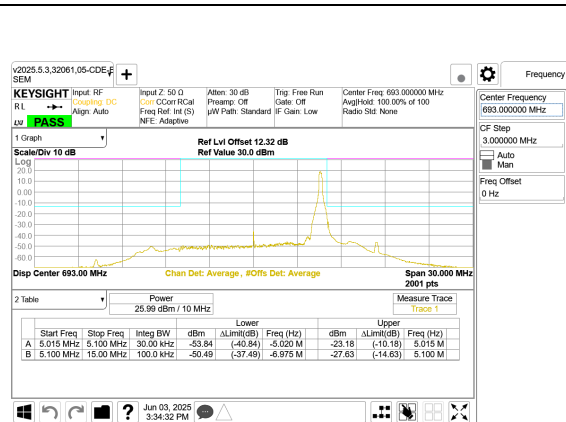
5G NR n71 10MHz BPSK Middle Channel RB1-0



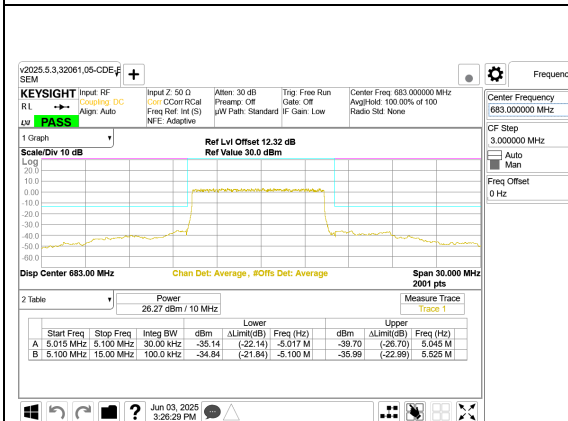
5G NR n71 10MHz BPSK High Channel RB1-0



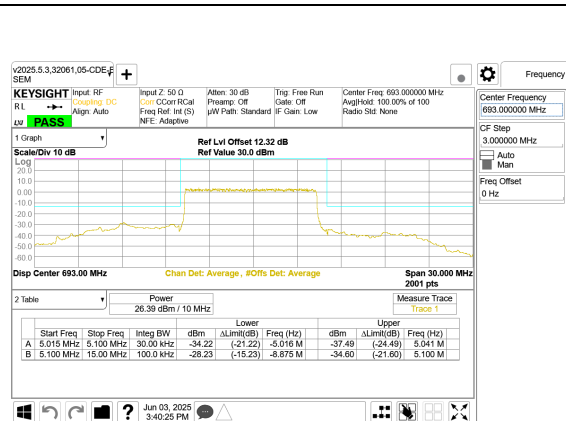
5G NR n71 10MHz BPSK Middle Channel RB1-51



5G NR n71 10MHz BPSK High Channel RB1-51



5G NR n71 10MHz BPSK Middle Channel RB50-0



5G NR n71 10MHz BPSK High Channel RB50-0







9.3. OUT OF BAND EMISSIONS

LIMITS (BAND 12, 17, 71)

FCC: §27.53 (g)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

ISED: RSS130§4.7

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

LIMITS (BAND 13)

FCC: §27.53 (c), (f)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Radiated data in section 10.1.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

ISED: RSS130§4.7

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

4.7.1 General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2 Additional unwanted emissions limits

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- (a) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
- ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

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

Note: Radiated data in section 10.1.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

TEST PROCEDURE

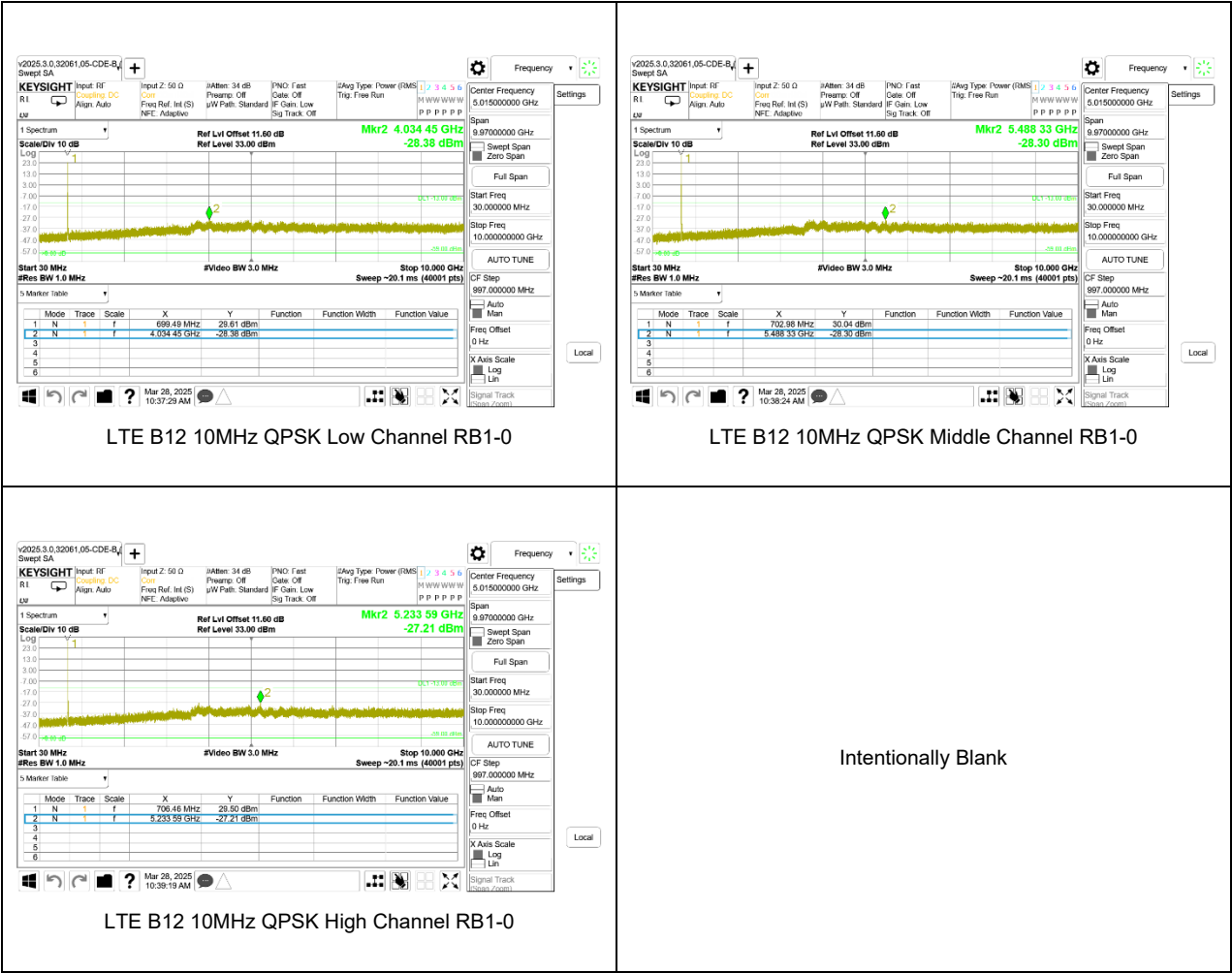
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

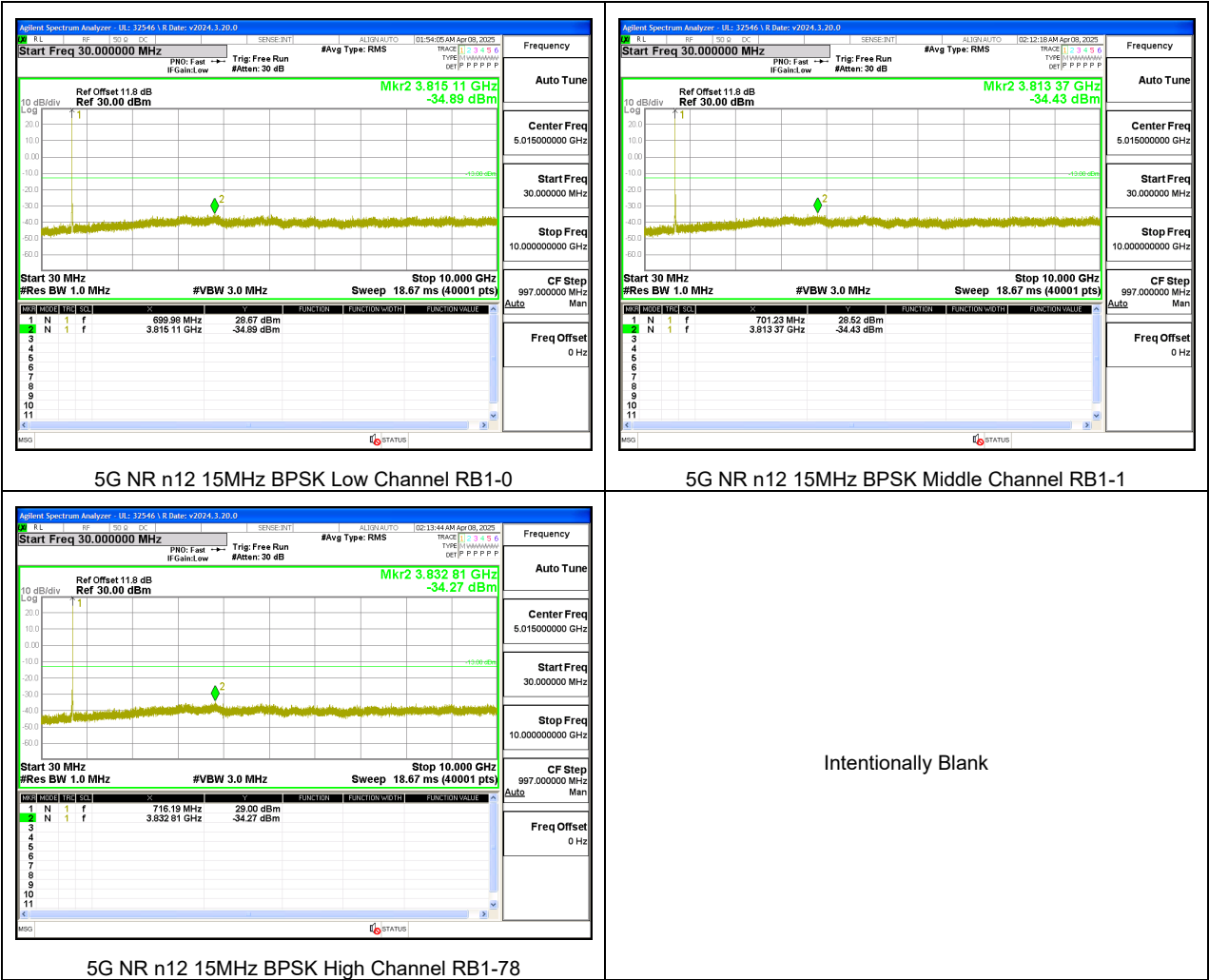
- Set display line at -13 dBm, -25 dBm and -40 dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

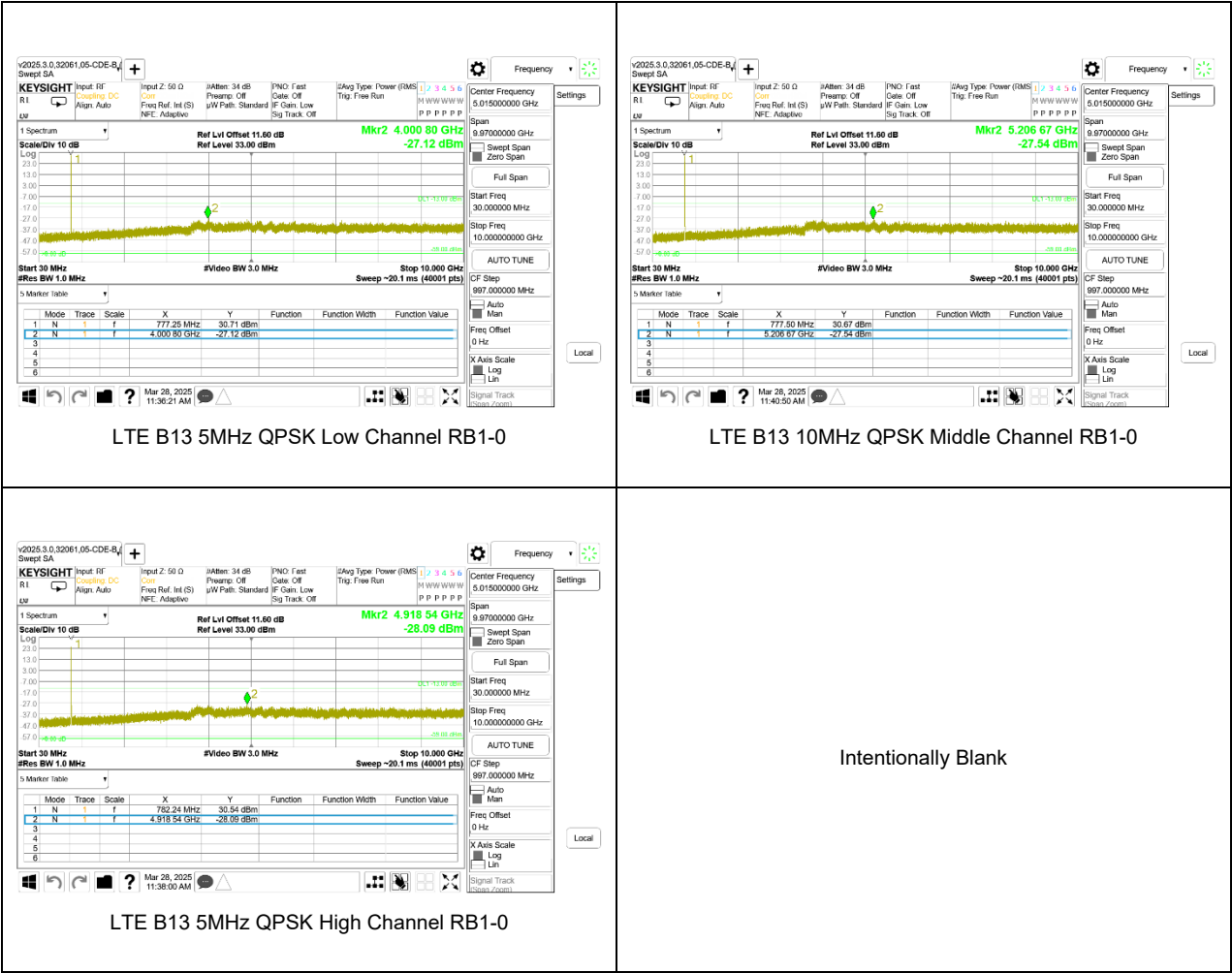
9.3.1. LTE BAND 12



9.3.2. 5G NR n12

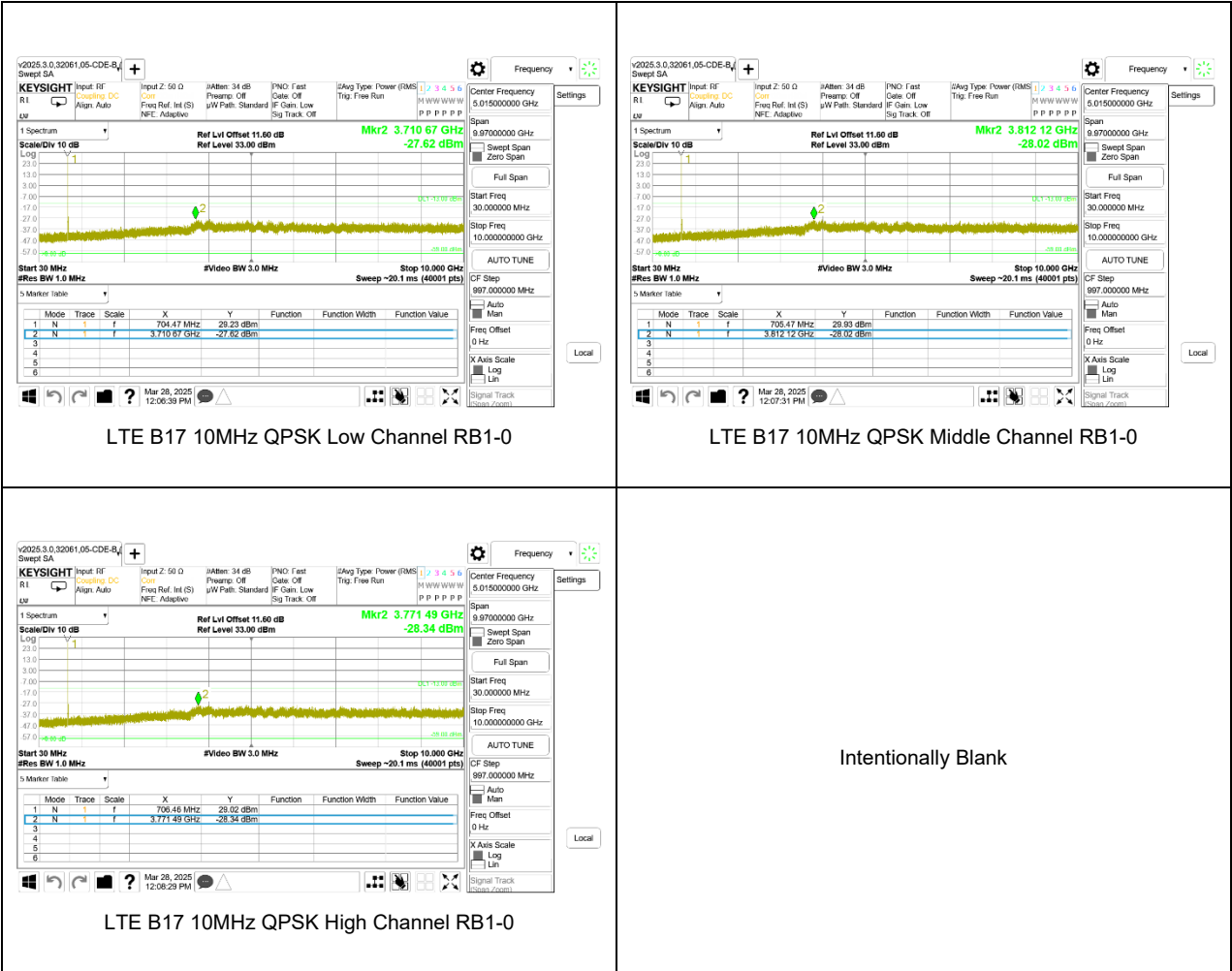


9.3.3. LTE BAND 13

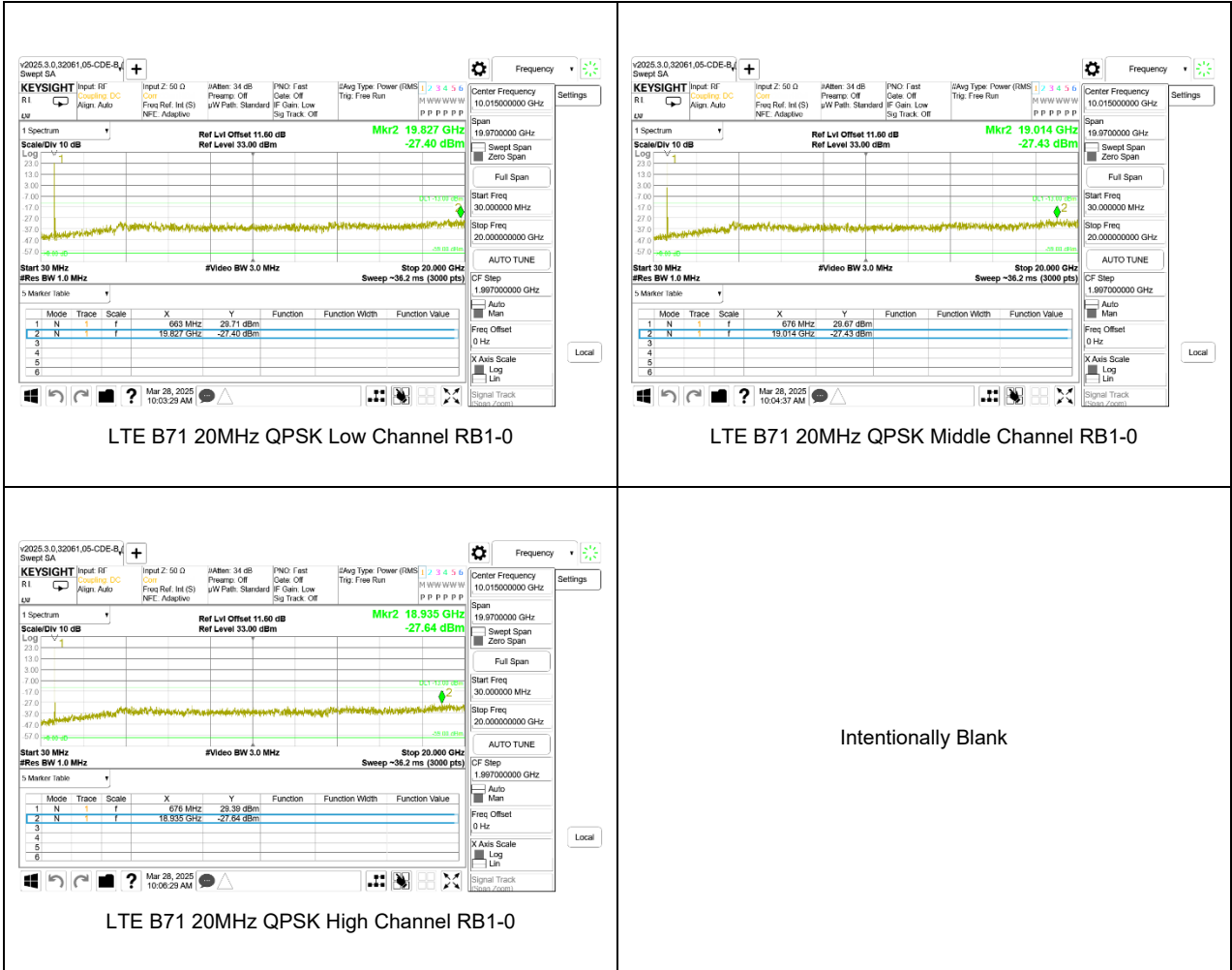


Note: Radiated data in section 10.1.3 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

9.3.4. LTE BAND 17



9.3.5. LTE BAND 71



9.3.6. 5G NR n71



9.4. FREQUENCY STABILITY

LIMITS

FCC: §27.54

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

ISED: RSS130§4.5

For equipment that is capable of transmitting numerous channels simultaneously for different applications (e.g. LTE and narrowband – Internet of Things (IoT)), the occupied bandwidth shall be the bandwidth representing the sum of the occupied bandwidths of these channels.

The frequency stability shall be sufficient to ensure that the occupied bandwidth remains within each frequency block range when tested at the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 115%)
Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. LTE BAND 12 (QPSK 10MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-05-12
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Band	12	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		699	716			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	699.5333	715.4672			
Extreme (50°C)		699.5333	715.4672	5.0	0.007	Yes
Extreme (40°C)		699.5333	715.4672	6.0	0.008	Yes
Extreme (30°C)		699.5333	715.4672	4.1	0.006	Yes
Extreme (10°C)		699.5333	715.4672	-3.8	-0.005	Yes
Extreme (0°C)		699.5333	715.4672	4.6	0.006	Yes
Extreme (-10°C)		699.5333	715.4672	-5.0	-0.007	Yes
Extreme (-20°C)		699.5333	715.4672	4.8	0.007	Yes
Extreme (-30°C)		699.5333	715.4672	4.9	0.007	Yes
20°C	15%	699.5333	715.4672	5.4	0.008	Yes
	-15%	699.5333	715.4672	5.0	0.007	Yes
	End Point Voltage	699.5333	715.4672	5.1	0.007	Yes

9.4.2. 5G NR n12 (BPSK 15MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-04-28
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Band	12	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		699	716		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Temperature	Voltage					
Normal (20°C)	Normal	699.4128	714.8342			
Extreme (50°C)		699.4128	714.8342	1.4	0.002	Yes
Extreme (40°C)		699.4128	714.8342	1.1	0.002	Yes
Extreme (30°C)		699.4128	714.8342	-1.4	-0.002	Yes
Extreme (10°C)		699.4128	714.8342	1.2	0.002	Yes
Extreme (0°C)		699.4128	714.8342	-1.3	-0.002	Yes
Extreme (-10°C)		699.4128	714.8342	1.5	0.002	Yes
Extreme (-20°C)		699.4128	714.8342	2.0	0.003	Yes
Extreme (-30°C)		699.4128	714.8342	2.8	0.004	Yes
20°C	15%	699.4128	714.8342	-1.5	-0.002	Yes
	-15%	699.4128	714.8342	-1.1	-0.002	Yes
	End Point Voltage	699.4128	714.8342	-1.0	-0.001	Yes

9.4.3. LTE BAND 13 (QPSK 10MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-05-13
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Band	13	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		777	787		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Temperature	Voltage					
Normal (20°C)	Normal	777.5385	786.4730			
Extreme (50°C)		777.5385	786.4730	5.4	0.007	Yes
Extreme (40°C)		777.5385	786.4730	-5.8	-0.007	Yes
Extreme (30°C)		777.5385	786.4730	-5.2	-0.007	Yes
Extreme (10°C)		777.5385	786.4730	4.8	0.006	Yes
Extreme (0°C)		777.5385	786.4730	5.5	0.007	Yes
Extreme (-10°C)		777.5385	786.4730	-5.0	-0.006	Yes
Extreme (-20°C)		777.5385	786.4730	-5.2	-0.007	Yes
Extreme (-30°C)		777.5385	786.4730	4.9	0.006	Yes
20°C	15%	777.5385	786.4730	7.7	0.010	Yes
	-15%	777.5385	786.4730	6.3	0.008	Yes
	End Point Voltage	777.5385	786.4730	6.7	0.009	Yes

9.4.4. LTE BAND 17 (QPSK 10MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-05-02
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Band	17	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		704	716			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	704.5319	715.4783			
Extreme (50°C)		704.5319	715.4783	5.2	0.007	Yes
Extreme (40°C)		704.5319	715.4783	5.5	0.008	Yes
Extreme (30°C)		704.5319	715.4783	4.7	0.007	Yes
Extreme (10°C)		704.5319	715.4783	-4.3	-0.006	Yes
Extreme (0°C)		704.5319	715.4783	-5.2	-0.007	Yes
Extreme (-10°C)		704.5319	715.4783	4.7	0.007	Yes
Extreme (-20°C)		704.5319	715.4783	4.8	0.007	Yes
Extreme (-30°C)		704.5319	715.4783	4.2	0.006	Yes
20°C	15%	704.5319	715.4783	6.0	0.008	Yes
	-15%	704.5319	715.4783	7.0	0.010	Yes
	End Point Voltage	704.5319	715.4783	6.2	0.009	Yes

9.4.5. LTE BAND 71 QPSK (20MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-05-02
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Band	71	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		663	698			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	664.0740	696.9419			
Extreme (50°C)		664.0740	696.9419	-4.2	-0.006	Yes
Extreme (40°C)		664.0740	696.9419	4.6	0.007	Yes
Extreme (30°C)		664.0740	696.9419	4.8	0.007	Yes
Extreme (10°C)		664.0740	696.9419	4.0	0.006	Yes
Extreme (0°C)		664.0740	696.9419	-4.7	-0.007	Yes
Extreme (-10°C)		664.0740	696.9419	5.6	0.008	Yes
Extreme (-20°C)		664.0740	696.9419	-4.1	-0.006	Yes
Extreme (-30°C)		664.0740	696.9419	4.7	0.007	Yes
20°C	15%	664.0740	696.9419	4.2	0.006	Yes
	-15%	664.0740	696.9419	5.8	0.008	Yes
	End Point Voltage	664.0740	696.9419	-5.1	-0.008	Yes

9.4.6. 5G NR n71 (BPSK 20MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-04-28
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Band	71	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		663	698			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	663.6816	695.8427			
Extreme (50°C)		663.6816	695.8427	1.1	0.002	Yes
Extreme (40°C)		663.6816	695.8427	1.3	0.002	Yes
Extreme (30°C)		663.6816	695.8427	1.3	0.002	Yes
Extreme (10°C)		663.6816	695.8427	1.2	0.002	Yes
Extreme (0°C)		663.6816	695.8427	1.1	0.002	Yes
Extreme (-10°C)		663.6816	695.8427	1.5	0.002	Yes
Extreme (-20°C)		663.6816	695.8427	2.4	0.004	Yes
Extreme (-30°C)		663.6816	695.8427	1.8	0.003	Yes
20°C	15%	663.6816	695.8427	-1.0	-0.001	Yes
	-15%	663.6816	695.8427	1.1	0.002	Yes
	End Point Voltage	663.6816	695.8427	1.0	0.001	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

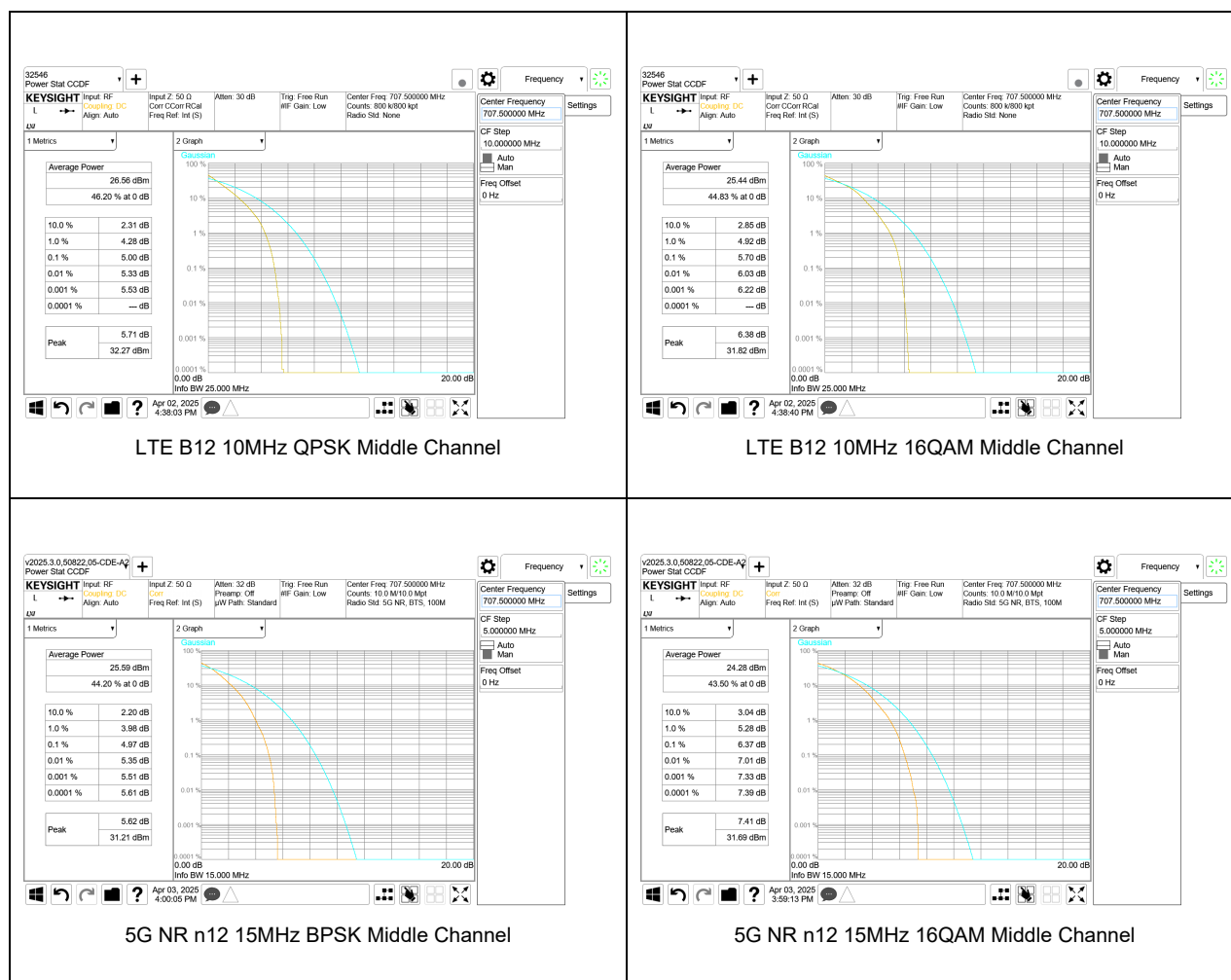
ISED: RSS130§4.6.1

The transmitter output power shall be measured in terms of average power. In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

Antenna 2 was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

Example Plots: FULL RB



9.5.1. LTE BAND 12

Test Engineer ID:	32546	Test Date:	2025-04-02
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 12	1.4MHz	707.5	6	0	QPSK	31.92	26.33	5.59
					16QAM	31.53	25.32	6.21
	3MHz		15	0	QPSK	31.97	26.35	5.62
					16QAM	31.79	25.25	6.54
	5MHz		25	0	QPSK	32.12	26.50	5.62
					16QAM	31.69	25.40	6.29
	10MHz		50	0	QPSK	32.27	26.56	5.71
					16QAM	31.82	25.44	6.38
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.2. 5G NR n12

Test Engineer ID:	50822	Test Date:	2025-04-28
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n12	5MHz	707.5	25	0	BPSK	30.22	25.71	4.51
					16QAM	30.31	24.05	6.26
	10MHz		50	0	BPSK	31.05	25.45	5.60
					16QAM	31.42	24.25	7.17
	15MHz		75	0	BPSK	31.21	25.59	5.62
					16QAM	31.69	24.28	7.41
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.3. LTE BAND 13

Test Engineer ID:	32546	Test Date:	2025-04-02
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 13	5MHz	782.0	25	0	QPSK	32.48	26.55	5.93
	10MHz		50	0	16QAM	32.17	25.48	6.69
					QPSK	32.97	26.66	6.31
					16QAM	32.69	25.55	7.14
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.4. LTE BAND 17

Test Engineer ID:	32546	Test Date:	2025-04-02
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 17	5MHz	710.0	25	0	QPSK	32.36	26.48	5.88
	10MHz		50	0	16QAM	31.96	25.41	6.55
					QPSK	32.42	26.53	5.89
					16QAM	32.08	25.45	6.63
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.5. LTE BAND 71

Test Engineer ID:	32546	Test Date:	2025-04-02
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 71	5MHz	680.5	25	0	QPSK	32.00	26.04	5.96
					16QAM	31.67	25.02	6.65
	10MHz		50	0	QPSK	31.94	26.09	5.85
					16QAM	31.53	25.01	6.52
	15MHz		75	0	QPSK	31.72	26.00	5.72
					16QAM	31.38	24.93	6.45
	20MHz		100	0	QPSK	31.84	26.06	5.78
					16QAM	31.55	24.98	6.57
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.6. 5G NR n71

Test Engineer ID:	50822	Test Date:	2025-04-10
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR Band n71	5MHz	680.5	25	0	BPSK	31.31	26.75	4.56
					16QAM	31.17	25.19	5.98
	10MHz		50	0	BPSK	32.16	26.62	5.54
					16QAM	32.40	25.27	7.13
	15MHz		75	0	BPSK	31.75	26.65	5.10
					16QAM	32.28	25.22	7.06
	20MHz		100	0	BPSK	32.03	25.08	6.95
					16QAM	31.55	26.61	4.94
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

10. RADIATED TEST RESULTS

LIMITS (BAND 12, 17, 71)

FCC: §27.53 (g)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

ISED: RSS130§4.7

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

LIMITS (BAND 13)

FCC: §27.53 (c), (f)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Radiated data in section 10.1.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

ISED: RSS130§4.7

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

4.7.1 General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2 Additional unwanted emissions limits

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- (c) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- iii. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
- iv. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

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

Note: Radiated data in section 10.1.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.

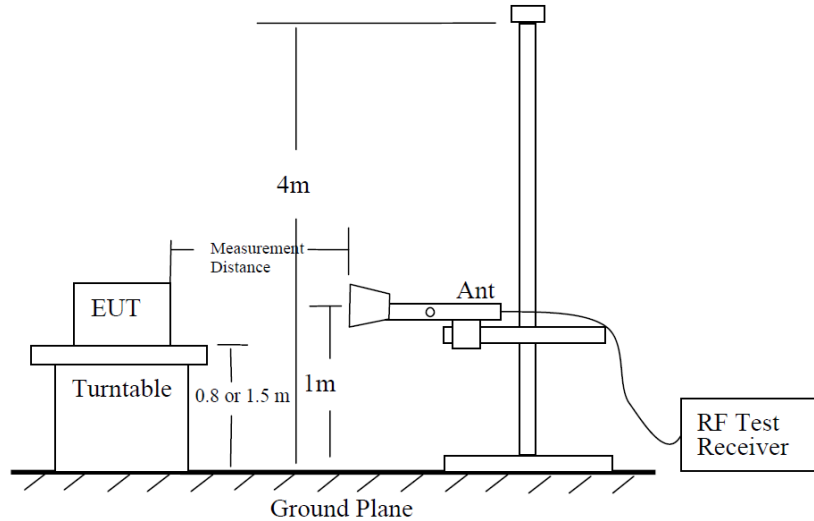


Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8;$ where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8;$ where D is the measurement distance (in the far field region) in m.

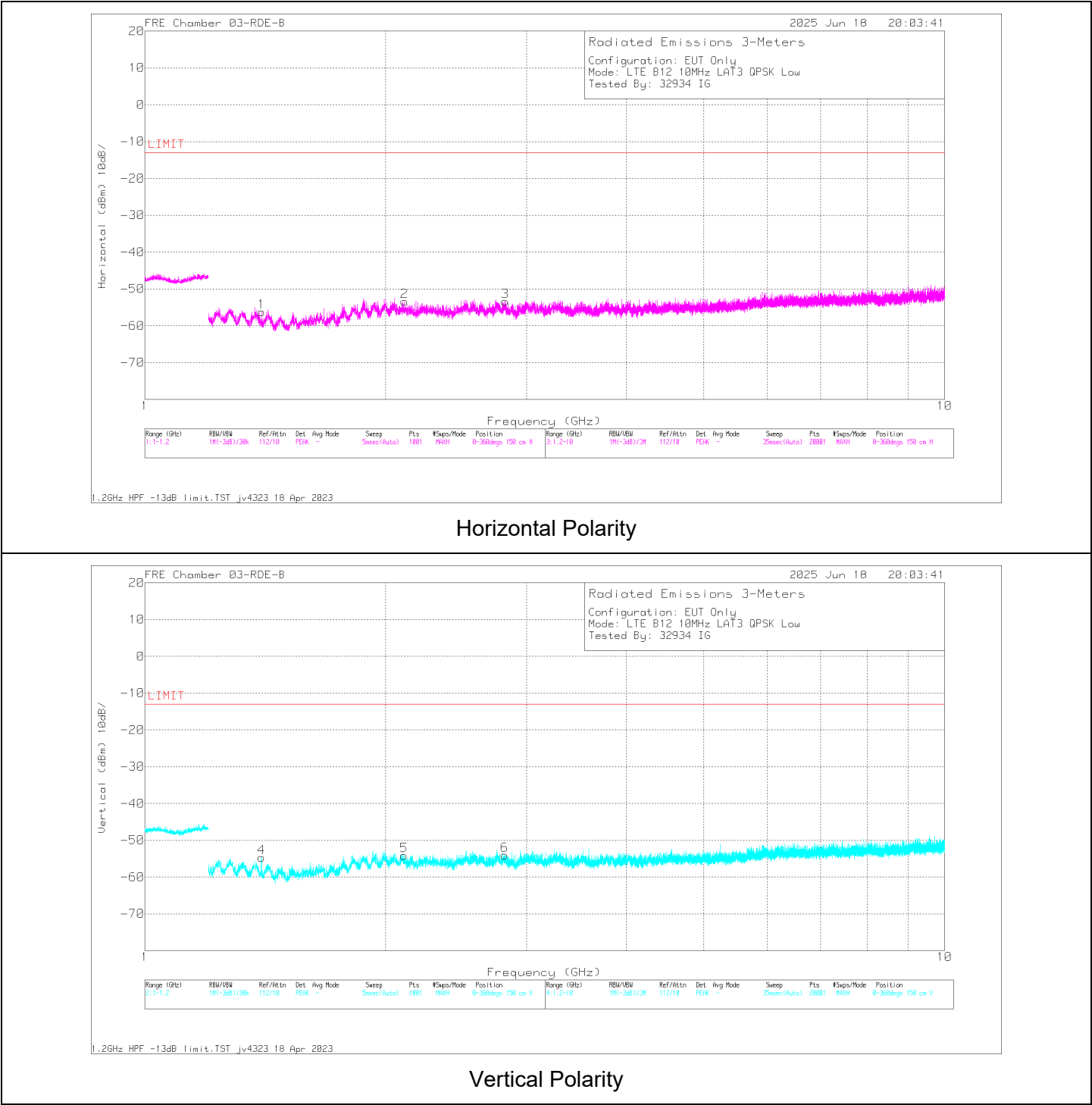
So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

Example Plot



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
4	1.399158	71.19	Pk	28.7	-95.2	-49.32	-44.63	-13	-31.63	V
1	1.399320	59.64	Pk	28.7	-95.2	-49.33	-56.19	-13	-43.19	H
5	2.110360	59.45	Pk	31.4	-95.2	-49.80	-54.15	-13	-41.15	V
2	2.111240	60.18	Pk	31.4	-95.2	-49.80	-53.42	-13	-40.42	H
6	2.817880	57.57	Pk	32.3	-95.2	-48.70	-54.03	-13	-41.03	V
3	2.821400	58.20	Pk	32.3	-95.2	-48.66	-53.36	-13	-40.36	H

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz

TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

10.1.1. LTE BAND 12

LTE BAND 12 (QPSK 10.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-06-18
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 704MHz									
1.399158	71.19	Pk	28.7	-95.2	-49.32	-44.63	-13	-31.63	V
1.399320	59.64	Pk	28.7	-95.2	-49.33	-56.19	-13	-43.19	H
2.110360	59.45	Pk	31.4	-95.2	-49.80	-54.15	-13	-41.15	V
2.111240	60.18	Pk	31.4	-95.2	-49.80	-53.42	-13	-40.42	H
2.817880	57.57	Pk	32.3	-95.2	-48.70	-54.03	-13	-41.03	V
2.821400	58.20	Pk	32.3	-95.2	-48.66	-53.36	-13	-40.36	H
Mid Channel, 707.5MHz									
1.406332	71.19	Pk	28.6	-95.2	-49.40	-44.81	-13	-31.81	V
1.420880	60.26	Pk	28.4	-95.2	-49.30	-55.84	-13	-42.84	H
2.109040	60.04	Pk	31.4	-95.2	-49.80	-53.56	-13	-40.56	V
2.119160	59.72	Pk	31.5	-95.2	-49.82	-53.80	-13	-40.80	H
2.780480	59.74	Pk	32.4	-95.2	-49.00	-52.06	-13	-39.06	V
2.824040	57.63	Pk	32.3	-95.2	-48.70	-53.97	-13	-40.97	H
High Channel, 711MHz									
1.413235	70.48	Pk	28.5	-95.2	-49.30	-45.52	-13	-32.52	V
1.419120	59.36	Pk	28.4	-95.2	-49.21	-56.65	-13	-43.65	H
2.119775	64.91	Pk	31.5	-95.2	-49.88	-48.67	-13	-35.67	H
2.120040	59.62	Pk	31.5	-95.2	-49.90	-53.98	-13	-40.98	V
2.836800	57.70	Pk	32.3	-95.2	-48.80	-54.00	-13	-41.00	V
2.839000	57.47	Pk	32.3	-95.2	-48.70	-54.13	-13	-41.13	H

LTE BAND 12 (QPSK 10.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-06-18
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 704MHz									
1.399301	68.12	Pk	28.7	-95.2	-49.33	-47.71	-13	-34.71	V
1.420440	59.46	Pk	28.4	-95.2	-49.30	-56.64	-13	-43.64	H
2.098996	63.82	Pk	31.5	-95.2	-49.80	-49.68	-13	-36.68	H
2.098920	60.20	Pk	31.5	-95.2	-49.80	-53.30	-13	-40.30	V
2.814800	58.71	Pk	32.3	-95.2	-48.72	-52.91	-13	-39.91	H
2.817000	57.43	Pk	32.3	-95.2	-48.70	-54.17	-13	-41.17	V
Mid Channel, 707.5MHz									
1.406192	69.68	Pk	28.6	-95.2	-49.40	-46.32	-13	-33.32	V
1.408120	58.34	Pk	28.5	-95.2	-49.30	-57.66	-13	-44.66	H
2.108600	60.45	Pk	31.4	-95.2	-49.80	-53.15	-13	-40.15	V
2.109217	64.90	Pk	31.4	-95.2	-49.80	-48.7	-13	-35.70	H
2.828880	57.67	Pk	32.3	-95.2	-48.70	-53.93	-13	-40.93	V
2.829320	57.55	Pk	32.3	-95.2	-48.70	-54.05	-13	-41.05	H
High Channel, 711MHz									
1.413078	71.98	Pk	28.5	-95.2	-49.30	-44.02	-13	-31.02	V
1.423080	59.59	Pk	28.5	-95.2	-49.21	-56.32	-13	-43.32	H
2.119600	60.97	Pk	31.5	-95.2	-49.86	-52.59	-13	-39.59	H
2.119600	60.39	Pk	31.5	-95.2	-49.86	-53.17	-13	-40.17	V
2.843840	57.01	Pk	32.3	-95.2	-48.70	-54.59	-13	-41.59	V
2.848240	57.45	Pk	32.3	-95.2	-48.72	-54.17	-13	-41.17	H

LTE BAND 12 (QPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-06-18
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 704MHz									
1.399320	58.25	Pk	28.7	-95.2	-49.33	-57.58	-13	-44.58	H
1.398964	71.77	Pk	28.7	-95.2	-49.30	-44.03	-13	-31.03	V
2.098846	65.37	Pk	31.5	-95.2	-49.80	-48.13	-13	-35.13	H
2.103320	59.76	Pk	31.4	-95.2	-49.80	-53.84	-13	-40.84	V
2.812160	58.69	Pk	32.3	-95.2	-48.72	-52.93	-13	-39.93	H
2.816120	57.97	Pk	32.3	-95.2	-48.70	-53.63	-13	-40.63	V
Mid Channel, 707.5MHz									
1.406171	69.48	Pk	28.6	-95.2	-49.40	-46.52	-13	-33.52	H
1.406197	72.61	Pk	28.6	-95.2	-49.40	-43.39	-13	-30.39	V
2.108907	66.50	Pk	31.4	-95.2	-49.80	-47.10	-13	-34.10	V
2.109303	64.67	Pk	31.4	-95.2	-49.80	-48.93	-13	-35.93	H
2.821840	58.36	Pk	32.3	-95.2	-48.62	-53.16	-13	-40.16	H
2.825800	58.23	Pk	32.3	-95.2	-48.72	-53.39	-13	-40.39	V
High Channel, 711MHz									
1.413355	72.16	Pk	28.5	-95.2	-49.30	-43.84	-13	-30.84	H
1.413106	72.78	Pk	28.5	-95.2	-49.30	-43.22	-13	-30.22	V
2.119737	67.34	Pk	31.5	-95.2	-49.87	-46.23	-13	-33.23	H
2.123560	58.29	Pk	31.5	-95.2	-49.80	-55.21	-13	-42.21	V
2.846040	57.27	Pk	32.3	-95.2	-48.60	-54.23	-13	-41.23	H
2.842080	56.83	Pk	32.3	-95.2	-48.70	-54.77	-13	-41.77	V

10.1.2. 5G NR n12

5G NR n12 (BPSK 15.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-06-18
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n12 BPSK 15MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 706.5MHz									
1.398440	58.85	Pk	28.7	-95.2	-49.36	-57.01	-13	-44.01	H
1.399181	67.89	Pk	28.7	-95.2	-49.32	-47.93	-13	-34.93	V
2.098863	65.64	Pk	31.5	-95.2	-49.80	-47.86	-13	-34.86	V
2.098875	67.23	Pk	31.5	-95.2	-49.80	-46.27	-13	-33.27	H
2.825800	58.73	Pk	32.3	-95.2	-48.72	-52.89	-13	-39.89	V
2.830200	57.85	Pk	32.3	-95.2	-48.72	-53.77	-13	-40.77	H
Mid Channel, 707.5MHz									
1.401080	58.14	Pk	28.7	-95.2	-49.39	-57.75	-13	-44.75	H
1.401304	68.48	Pk	28.7	-95.2	-49.37	-47.39	-13	-34.39	V
2.102161	67.97	Pk	31.4	-95.2	-49.80	-45.63	-13	-32.63	H
2.102168	66.13	Pk	31.4	-95.2	-49.80	-47.47	-13	-34.47	V
2.832840	57.54	Pk	32.3	-95.2	-48.70	-54.06	-13	-41.06	H
2.835480	57.85	Pk	32.3	-95.2	-48.75	-53.80	-13	-40.80	V
High Channel, 708.5MHz									
1.417800	60.50	Pk	28.4	-95.2	-49.30	-55.60	-13	-42.60	H
1.418680	59.06	Pk	28.4	-95.2	-49.23	-56.97	-13	-43.97	V
2.100240	59.65	Pk	31.4	-95.2	-49.80	-53.95	-13	-40.95	V
2.105080	61.12	Pk	31.4	-95.2	-49.80	-52.48	-13	-39.48	H
2.835040	57.82	Pk	32.3	-95.2	-48.70	-53.78	-13	-40.78	V
2.836800	57.63	Pk	32.3	-95.2	-48.80	-54.07	-13	-41.07	H

5G NR n12 (BPSK 15.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-12
Test Engineer:	32703
Configuration:	EUT Only
Mode	5G NR n12 BPSK 15MHz
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 706.5MHz									
1.398440	57.58	Pk	28.3	-95.2	-48.60	-57.92	-13	-44.92	H
2.796320	55.92	Pk	32.4	-95.2	-48.47	-55.35	-13	-42.35	H
1.398440	58.57	Pk	28.3	-95.2	-48.60	-56.93	-13	-43.93	V
2.796320	54.78	Pk	32.4	-95.2	-48.47	-56.49	-13	-43.49	V
2.098040	56.94	Pk	31.5	-95.2	-49.20	-55.96	-13	-42.96	H
2.098040	57.35	Pk	31.5	-95.2	-49.20	-55.55	-13	-42.55	V
Mid Channel, 707.5MHz									
1.400640	57.66	Pk	28.3	-95.2	-48.66	-57.90	-13	-44.90	H
2.800280	55.41	Pk	32.4	-95.2	-48.50	-55.89	-13	-42.89	H
1.400640	58.09	Pk	28.3	-95.2	-48.66	-57.47	-13	-44.47	V
2.800280	56.11	Pk	32.4	-95.2	-48.50	-55.19	-13	-42.19	V
2.100680	57.02	Pk	31.5	-95.2	-49.10	-55.78	-13	-42.78	H
2.100680	57.02	Pk	31.5	-95.2	-49.10	-55.78	-13	-42.78	V
High Channel, 708.5MHz									
1.402840	59.37	Pk	28.2	-95.2	-48.60	-56.23	-13	-43.23	H
2.804680	56.83	Pk	32.4	-95.2	-48.33	-54.30	-13	-41.30	H
1.402840	59.15	Pk	28.2	-95.2	-48.60	-56.45	-13	-43.45	V
2.804680	56.02	Pk	32.4	-95.2	-48.33	-55.11	-13	-42.11	V
2.103320	56.48	Pk	31.5	-95.2	-49.00	-56.22	-13	-43.22	H
2.103320	56.85	Pk	31.5	-95.2	-49.00	-55.85	-13	-42.85	V

5G NR n12 (BPSK 15.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-06-18
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n12 BPSK 15MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 706.5MHz									
1.412960	58.56	Pk	28.5	-95.2	-49.30	-57.44	-13	-44.44	V
1.414720	59.26	Pk	28.4	-95.2	-49.23	-56.77	-13	-43.77	H
2.113000	59.54	Pk	31.4	-95.2	-49.80	-54.06	-13	-41.06	V
2.124880	59.63	Pk	31.5	-95.2	-49.80	-53.87	-13	-40.87	H
2.828440	58.32	Pk	32.3	-95.2	-48.70	-53.28	-13	-40.28	V
2.830200	58.42	Pk	32.3	-95.2	-48.72	-53.20	-13	-40.20	H
Mid Channel, 707.5MHz									
1.400640	59.62	Pk	28.7	-95.2	-49.40	-56.28	-13	-43.28	V
1.411200	58.33	Pk	28.5	-95.2	-49.300	-57.67	-13	-44.67	H
2.114760	59.36	Pk	31.4	-95.2	-49.75	-54.19	-13	-41.19	V
2.124440	59.29	Pk	31.5	-95.2	-49.8	-54.21	-13	-41.21	H
2.815680	58.59	Pk	32.3	-95.2	-48.70	-53.01	-13	-40.01	V
2.827120	57.51	Pk	32.3	-95.2	-48.70	-54.09	-13	-41.09	H
High Channel, 708.5MHz									
1.421320	60.81	Pk	28.4	-95.2	-49.30	-55.29	-13	-42.29	V
1.424840	60.18	Pk	28.5	-95.2	-49.22	-55.74	-13	-42.74	H
2.127080	58.98	Pk	31.5	-95.2	-49.89	-54.61	-13	-41.61	H
2.129720	58.88	Pk	31.5	-95.2	-49.87	-54.69	-13	-41.69	V
2.834160	58.07	Pk	32.3	-95.2	-48.70	-53.53	-13	-40.53	H
2.848240	57.57	Pk	32.3	-95.2	-48.72	-54.05	-13	-41.05	V

10.1.3. LTE BAND 13

LTE BAND 13 (QPSK 10.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-04-29
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.588960	58.77	Pk	28.1	-95.2	-48.90	-57.23	-40	-17.23	H
1.578400	58.86	Pk	28.0	-95.2	-48.90	-57.24	-40	-17.24	V
1.555041	71.45	Pk	28.0	-95.2	-48.70	-44.45	-13	-31.45	H
1.555169	72.14	Pk	28.0	-95.2	-48.70	-43.76	-13	-30.76	V
2.332761	69.67	Pk	31.9	-95.2	-49.30	-42.93	-13	-29.93	V
2.332864	68.51	Pk	31.9	-95.2	-49.30	-44.09	-13	-31.09	H

* Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

LTE BAND 13 (QPSK 10.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-04-29
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.595120	57.80	Pk	28.1	-95.2	-48.80	-58.10	-40	-18.10	H
1.589400	58.63	Pk	28.1	-95.2	-48.90	-57.37	-40	-17.37	V
1.555224	73.66	Pk	28.0	-95.2	-48.70	-42.24	-13	-29.24	H
1.555189	72.43	Pk	28.0	-95.2	-48.70	-43.47	-13	-30.47	V
2.332752	65.91	Pk	31.9	-95.2	-49.30	-46.69	-13	-33.69	V
2.421706	59.59	Pk	32.2	-95.2	-49.30	-52.71	-13	-39.71	H

*** Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.**

LTE BAND 13 (QPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-04-29
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.581920	57.74	Pk	28.0	-95.2	-48.89	-58.35	-40	-18.35	H
1.591600	58.53	Pk	28.1	-95.2	-48.80	-57.37	-40	-17.37	V
1.555100	71.91	Pk	28.0	-95.2	-48.70	-43.99	-13	-30.99	H
1.555176	72.83	Pk	28.0	-95.2	-48.70	-43.07	-13	-30.07	V
2.332628	66.11	Pk	31.9	-95.2	-49.30	-46.49	-13	-33.49	V
2.332691	70.42	Pk	31.9	-95.2	-49.30	-42.18	-13	-29.18	H

*** Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.**

10.1.4. LTE BAND 17

LTE BAND 17 (QPSK 10.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-06-20
Test Engineer:	111411
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 709MHz									
1.424400	59.76	Pk	28.5	-95.2	-49.26	-56.20	-13	-43.20	H
1.412960	63.25	Pk	28.5	-95.2	-49.30	-52.75	-13	-39.75	V
2.120040	61.51	Pk	31.5	-95.2	-49.90	-52.09	-13	-39.09	H
2.826240	59.13	Pk	32.3	-95.2	-48.70	-52.47	-13	-39.47	H
2.116960	61.57	Pk	31.5	-95.2	-49.70	-51.83	-13	-38.83	V
2.815680	58.59	Pk	32.3	-95.2	-48.70	-53.01	-13	-40.01	V
Mid Channel, 710MHz									
1.425060	59.44	Pk	28.5	-95.2	-49.20	-56.46	-13	-43.46	H
1.425280	61.93	Pk	28.5	-95.2	-49.20	-53.97	-13	-40.97	V
2.131480	62.07	Pk	31.5	-95.2	-49.85	-51.48	-13	-38.48	H
2.127520	62.34	Pk	31.5	-95.2	-49.85	-51.21	-13	-38.21	V
2.822720	57.20	Pk	32.3	-95.2	-48.67	-54.37	-13	-41.37	V
2.828440	57.78	Pk	32.3	-95.2	-48.70	-53.82	-13	-40.82	H
High Channel, 711MHz									
1.425280	60.95	Pk	28.5	-95.2	-49.20	-54.95	-13	-41.95	H
1.422200	61.76	Pk	28.4	-95.2	-49.28	-54.32	-13	-41.32	V
2.131480	60.58	Pk	31.5	-95.2	-49.85	-52.97	-13	-39.97	V
2.134560	62.16	Pk	31.5	-95.2	-49.90	-51.44	-13	-38.44	H
2.813920	57.95	Pk	32.3	-95.2	-48.80	-53.75	-13	-40.75	V
2.824040	59.05	Pk	32.3	-95.2	-48.70	-52.55	-13	-39.55	H

LTE BAND 17 (QPSK 10.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-06-20
Test Engineer:	11411
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 709MHz									
1.424840	59.91	Pk	28.5	-95.2	-49.22	-56.01	-13	-43.01	H
1.426600	59.92	Pk	28.5	-95.2	-49.20	-55.98	-13	-42.98	V
2.161400	58.70	Pk	31.5	-95.2	-49.96	-54.96	-13	-41.96	V
2.168880	58.84	Pk	31.4	-95.2	-49.90	-54.86	-13	-41.86	H
2.808200	59.36	Pk	32.3	-95.2	-48.86	-52.40	-13	-39.40	V
2.822280	58.62	Pk	32.3	-95.2	-48.63	-52.91	-13	-39.91	H
Mid Channel, 710MHz									
2.808640	58.81	Pk	32.3	-95.2	-48.77	-52.86	-13	-39.86	H
1.423520	59.65	Pk	28.5	-95.2	-49.25	-56.30	-13	-43.30	V
2.806440	58.25	Pk	32.3	-95.2	-48.80	-53.45	-13	-40.45	V
1.427040	60.21	Pk	28.5	-95.2	-49.20	-55.69	-13	-42.69	H
2.169760	58.18	Pk	31.4	-95.2	-49.90	-55.52	-13	-42.52	V
2.182960	58.94	Pk	31.4	-95.2	-49.90	-54.76	-13	-41.76	H
High Channel, 711MHz									
1.422640	59.44	Pk	28.5	-95.2	-49.24	-56.50	-13	-43.50	H
1.420880	60.29	Pk	28.4	-95.2	-49.30	-55.81	-13	-42.81	V
2.138080	60.03	Pk	31.5	-95.2	-49.90	-53.57	-13	-40.57	H
2.138080	58.43	Pk	31.5	-95.2	-49.90	-55.17	-13	-42.17	V
2.824040	57.49	Pk	32.3	-95.2	-48.70	-54.11	-13	-41.11	V
2.828880	57.82	Pk	32.3	-95.2	-48.70	-53.78	-13	-40.78	H

LTE BAND 17 (QPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-06-20
Test Engineer:	111411
Configuration:	EUT Only
Mode	LTE B12 QPSK 10MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 709MHz									
1.422640	60.18	Pk	28.5	-95.2	-49.24	-55.76	-13	-42.76	H
1.417800	59.89	Pk	28.4	-95.2	-49.30	-56.21	-13	-43.21	V
2.116080	60.06	Pk	31.5	-95.2	-49.79	-53.43	-13	-40.43	H
2.161840	60.85	Pk	31.5	-95.2	-49.92	-52.77	-13	-39.77	V
2.837240	57.91	Pk	32.3	-95.2	-48.80	-53.79	-13	-40.79	H
2.820520	57.19	Pk	32.3	-95.2	-48.70	-54.41	-13	-41.41	V
Mid Channel, 710MHz									
1.426160	60.13	Pk	28.5	-95.2	-49.20	-55.77	-13	-42.77	H
1.416480	60.32	Pk	28.4	-95.2	-49.30	-55.78	-13	-42.78	V
2.132800	59.32	Pk	31.5	-95.2	-49.90	-54.28	-13	-41.28	V
2.135000	60.52	Pk	31.5	-95.2	-49.90	-53.08	-13	-40.08	H
2.826240	57.98	Pk	32.3	-95.2	-48.70	-53.62	-13	-40.62	V
2.835480	58.08	Pk	32.3	-95.2	-48.75	-53.57	-13	-40.57	H
High Channel, 711MHz									
1.468400	59.78	Pk	28.2	-95.2	-49.12	-56.34	-13	-43.34	H
1.468400	58.77	Pk	28.2	-95.2	-49.12	-57.35	-13	-44.35	V
2.135000	60.14	Pk	31.5	-95.2	-49.90	-53.46	-13	-40.46	V
2.140280	59.50	Pk	31.5	-95.2	-49.90	-54.10	-13	-41.10	H
2.821840	58.16	Pk	32.3	-95.2	-48.62	-53.36	-13	-40.36	V
2.840760	56.96	Pk	32.3	-95.2	-48.68	-54.62	-13	-41.62	H

10.1.5. LTE BAND 71

LTE BAND 71 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-06-17
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 673MHz									
1.339040	58.03	Pk	29.0	-95.2	-49.30	-57.47	-13	-44.47	V
1.345200	57.94	Pk	29.0	-95.2	-49.40	-57.66	-13	-44.66	H
1.992308	69.12	Pk	31.9	-95.2	-49.90	-44.08	-13	-31.08	V
1.992398	70.04	Pk	31.9	-95.2	-49.90	-43.16	-13	-30.16	H
2.692920	57.96	Pk	32.4	-95.2	-49.51	-54.35	-13	-41.35	V
2.699520	58.52	Pk	32.3	-95.2	-49.60	-53.98	-13	-40.98	H
Mid Channel, 680.5MHz									
1.362800	59.34	Pk	28.9	-95.2	-49.30	-56.26	-13	-43.26	H
1.367640	59.54	Pk	28.9	-95.2	-49.36	-56.12	-13	-43.12	V
2.047000	60.53	Pk	31.8	-95.2	-50.00	-52.87	-13	-39.87	H
2.059320	60.50	Pk	31.8	-95.2	-49.90	-52.80	-13	-39.80	V
2.706120	58.01	Pk	32.3	-95.2	-49.51	-54.40	-13	-41.40	V
2.719320	57.63	Pk	32.3	-95.2	-49.60	-54.87	-13	-41.87	H
High Channel, 688MHz									
1.371600	60.09	Pk	28.9	-95.2	-49.40	-55.61	-13	-42.61	V
1.374680	60.98	Pk	28.9	-95.2	-49.40	-54.72	-13	-41.72	H
2.037123	67.67	Pk	31.8	-95.2	-50.00	-45.73	-13	-32.73	V
2.037467	69.36	Pk	31.8	-95.2	-50.00	-44.04	-13	-31.04	H
2.753640	58.59	Pk	32.4	-95.2	-49.36	-53.57	-13	-40.57	H
2.758040	59.21	Pk	32.4	-95.2	-49.20	-52.79	-13	-39.79	V

LTE BAND 71 (QPSK 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-12
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 673MHz									
1.329800	60.14	Pk	29.1	-95.2	-49.32	-55.28	-13	-42.28	V
1.340360	60.06	Pk	29.0	-95.2	-49.36	-55.50	-13	-42.50	H
1.995080	61.03	Pk	32.0	-95.2	-49.80	-51.97	-13	-38.97	H
1.998600	60.12	Pk	32.0	-95.2	-49.90	-52.98	-13	-39.98	V
2.698200	57.57	Pk	32.3	-95.2	-49.60	-54.93	-13	-41.93	H
2.709640	58.42	Pk	32.3	-95.2	-49.64	-54.12	-13	-41.12	V
Mid Channel, 683MHz									
1.357520	58.66	Pk	29.0	-95.2	-49.40	-56.94	-13	-43.94	V
1.367640	58.88	Pk	28.9	-95.2	-49.36	-56.78	-13	-43.78	H
2.041720	60.38	Pk	31.8	-95.2	-49.93	-52.95	-13	-39.95	V
2.046120	60.38	Pk	31.8	-95.2	-50.00	-53.02	-13	-40.02	H
2.724160	57.94	Pk	32.3	-95.2	-49.52	-54.48	-13	-41.48	H
2.729000	58.81	Pk	32.4	-95.2	-49.50	-53.49	-13	-40.49	V
High Channel, 688MHz									
1.379080	60.27	Pk	28.8	-95.2	-49.40	-55.53	-13	-42.53	H
1.380840	61.36	Pk	28.8	-95.2	-49.40	-54.44	-13	-41.44	V
2.061080	58.65	Pk	31.8	-95.2	-49.90	-54.65	-13	-41.65	H
2.061080	59.37	Pk	31.8	-95.2	-49.90	-53.93	-13	-40.93	V
2.767720	58.86	Pk	32.3	-95.2	-49.23	-53.27	-13	-40.27	V
2.775200	59.15	Pk	32.4	-95.2	-49.10	-52.75	-13	-39.75	H

LTE BAND 71 (QPSK 20.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-03-07
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B12 QPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 673MHz									
1.328920	61.07	Pk	29.1	-95.2	-49.39	-54.42	-13	-41.42	V
1.335520	60.08	Pk	29.0	-95.2	-49.30	-55.42	-13	-42.42	H
1.992171	69.36	Pk	31.9	-95.2	-49.90	-43.84	-13	-30.84	H
1.997720	60.72	Pk	32.0	-95.2	-49.90	-52.38	-13	-39.38	V
2.764615	60.90	Pk	32.3	-95.2	-49.26	-51.26	-13	-38.26	H
2.780920	58.10	Pk	32.4	-95.2	-49.00	-53.70	-13	-40.70	V
Mid Channel, 683MHz									
1.369840	60.07	Pk	28.9	-95.2	-49.40	-55.63	-13	-42.63	V
1.371160	59.35	Pk	28.9	-95.2	-49.40	-56.35	-13	-43.35	H
2.014760	68.97	Pk	31.9	-95.2	-49.98	-44.31	-13	-31.31	H
2.014880	60.04	Pk	31.9	-95.2	-49.99	-53.25	-13	-40.25	V
2.753200	59.56	Pk	32.4	-95.2	-49.32	-52.56	-13	-39.56	H
2.766400	60.25	Pk	32.3	-95.2	-49.30	-51.95	-13	-38.95	V
High Channel, 688MHz									
1.358391	72.39	Pk	29.0	-95.2	-49.40	-43.21	-13	-30.21	V
1.364560	58.06	Pk	28.9	-95.2	-49.40	-57.64	-13	-44.64	H
2.037272	70.04	Pk	31.8	-95.2	-50.00	-43.36	-13	-30.36	H
2.037320	60.17	Pk	31.8	-95.2	-50.00	-53.23	-13	-40.23	V
2.752320	59.05	Pk	32.4	-95.2	-49.37	-53.12	-13	-40.12	V
2.758920	58.42	Pk	32.4	-95.2	-49.29	-53.67	-13	-40.67	H

10.1.6. 5G NR n71

5G NR n71 (BPSK 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-20
Test Engineer:	32545
Configuration:	EUT Only
Mode	5G NR n12 BPSK 30MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 673MHz									
1.342120	58.13	Pk	29.0	-95.2	-49.31	-57.38	-13	-44.38	V
1.344760	57.55	Pk	29.0	-95.2	-49.40	-58.05	-13	-45.05	H
1.991156	72.14	Pk	31.9	-95.2	-49.82	-40.98	-13	-27.98	H
1.991251	67.49	Pk	31.9	-95.2	-49.83	-45.64	-13	-32.64	V
2.696880	58.97	Pk	32.3	-95.2	-49.60	-53.53	-13	-40.53	H
2.699080	57.43	Pk	32.3	-95.2	-49.60	-55.07	-13	-42.07	V
Mid Channel, 680.5MHz									
1.361480	57.32	Pk	28.9	-95.2	-49.30	-58.28	-13	-45.28	H
1.361480	57.84	Pk	28.9	-95.2	-49.30	-57.76	-13	-44.76	V
2.041280	57.99	Pk	31.8	-95.2	-49.97	-55.38	-13	-42.38	H
2.041280	57.58	Pk	31.8	-95.2	-49.97	-55.79	-13	-42.79	V
2.722840	56.98	Pk	32.3	-95.2	-49.60	-55.52	-13	-42.52	H
2.722840	57.85	Pk	32.3	-95.2	-49.60	-54.65	-13	-41.65	V
High Channel, 688MHz									
1.375252	62.63	Pk	28.9	-95.2	-49.37	-53.04	-13	-40.04	H
1.376255	61.67	Pk	28.9	-95.2	-49.33	-53.96	-13	-40.96	V
2.035413	65.74	Pk	31.8	-95.2	-50.00	-47.66	-13	-34.66	V
2.035697	64.25	Pk	31.8	-95.2	-50.00	-49.15	-13	-36.15	H
2.751330	60.18	Pk	32.4	-95.2	-49.40	-52.02	-13	-39.02	H
2.751298	60.37	Pk	32.4	-95.2	-49.40	-51.83	-13	-38.83	V

5G NR n71 (BPSK 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-17
Test Engineer:	32545
Configuration:	EUT Only
Mode	5G NR n12 BPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 673MHz									
1.343845	59.74	Pk	29.0	-95.2	-49.40	-55.86	-13	-42.86	H
1.343728	59.46	Pk	29.0	-95.2	-49.40	-56.14	-13	-43.14	V
1.881212	61.54	Pk	31.2	-95.2	-49.40	-51.86	-13	-38.86	V
1.883295	61.29	Pk	31.3	-95.2	-49.37	-51.98	-13	-38.98	H
2.710105	60.07	Pk	32.3	-95.2	-49.60	-52.43	-13	-39.43	H
2.705243	60.06	Pk	32.3	-95.2	-49.58	-52.42	-13	-39.42	V
Mid Channel, 680.5MHz									
1.479830	60.72	Pk	28.1	-95.2	-49.12	-55.50	-13	-42.50	H
1.480903	60.53	Pk	28.1	-95.2	-49.19	-55.76	-13	-42.76	V
2.040114	62.48	Pk	31.8	-95.2	-50.00	-50.92	-13	-37.92	H
2.040428	61.29	Pk	31.8	-95.2	-50.00	-52.11	-13	-39.11	V
2.725730	59.40	Pk	32.4	-95.2	-49.67	-53.07	-13	-40.07	H
2.723722	59.56	Pk	32.3	-95.2	-49.53	-52.87	-13	-39.87	V
High Channel, 688MHz									
1.376880	59.04	Pk	28.9	-95.2	-49.39	-56.65	-13	-43.65	H
1.376880	57.65	Pk	28.9	-95.2	-49.39	-58.04	-13	-45.04	V
2.064600	56.83	Pk	31.7	-95.2	-49.90	-56.57	-13	-43.57	H
2.064600	58.60	Pk	31.7	-95.2	-49.90	-54.80	-13	-41.80	V
2.752320	56.87	Pk	32.4	-95.2	-49.37	-55.30	-13	-42.30	H
2.752320	56.24	Pk	32.4	-95.2	-49.37	-55.93	-13	-42.93	V

5G NR n71 (BPSK 20.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-03-13
Test Engineer:	32545
Configuration:	EUT Only
Mode	5G NR n12 BPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 673MHz									
1.327425	65.56	Pk	29.1	-95.2	-49.36	-49.90	-13	-36.90	V
1.328468	62.31	Pk	29.1	-95.2	-49.35	-53.14	-13	-40.14	H
1.8809501	61.35	Pk	31.2	-95.2	-49.40	-52.05	-13	-39.05	H
1.882761	61.94	Pk	31.3	-95.2	-49.40	-51.36	-13	-38.36	V
2.719588	59.50	Pk	32.3	-95.2	-49.60	-53.00	-13	-40.00	H
2.720680	59.46	Pk	32.3	-95.2	-49.67	-53.11	-13	-40.11	V
Mid Channel, 680.5MHz									
1.361944	60.15	Pk	28.9	-95.2	-49.30	-55.45	-13	-42.45	V
1.363368	60.76	Pk	28.9	-95.2	-49.34	-54.88	-13	-41.88	H
2.206013	60.66	Pk	31.4	-95.2	-50.10	-53.24	-13	-40.24	H
2.209037	61.03	Pk	31.4	-95.2	-50.10	-52.87	-13	-39.87	V
3.518540	58.21	Pk	32.8	-95.2	-47.35	-51.54	-13	-38.54	H
3.518752	57.94	Pk	32.8	-95.2	-47.32	-51.78	-13	-38.78	V
High Channel, 688MHz									
1.364675	60.67	Pk	28.9	-95.2	-49.4	-55.03	-13	-42.03	V
1.366717	60.79	Pk	28.9	-95.2	-49.33	-54.84	-13	-41.84	H
2.036073	68.28	Pk	31.8	-95.2	-50.00	-45.12	-13	-32.12	H
2.037557	61.66	Pk	31.8	-95.2	-50.00	-51.74	-13	-38.74	V
2.722018	59.25	Pk	32.3	-95.2	-49.60	-53.25	-13	-40.25	H
2.722181	60.02	Pk	32.3	-95.2	-49.60	-52.48	-13	-39.48	V

11. SETUP PHOTOS

Refer to 15496282-EP1V1 for setup photos.

END OF REPORT