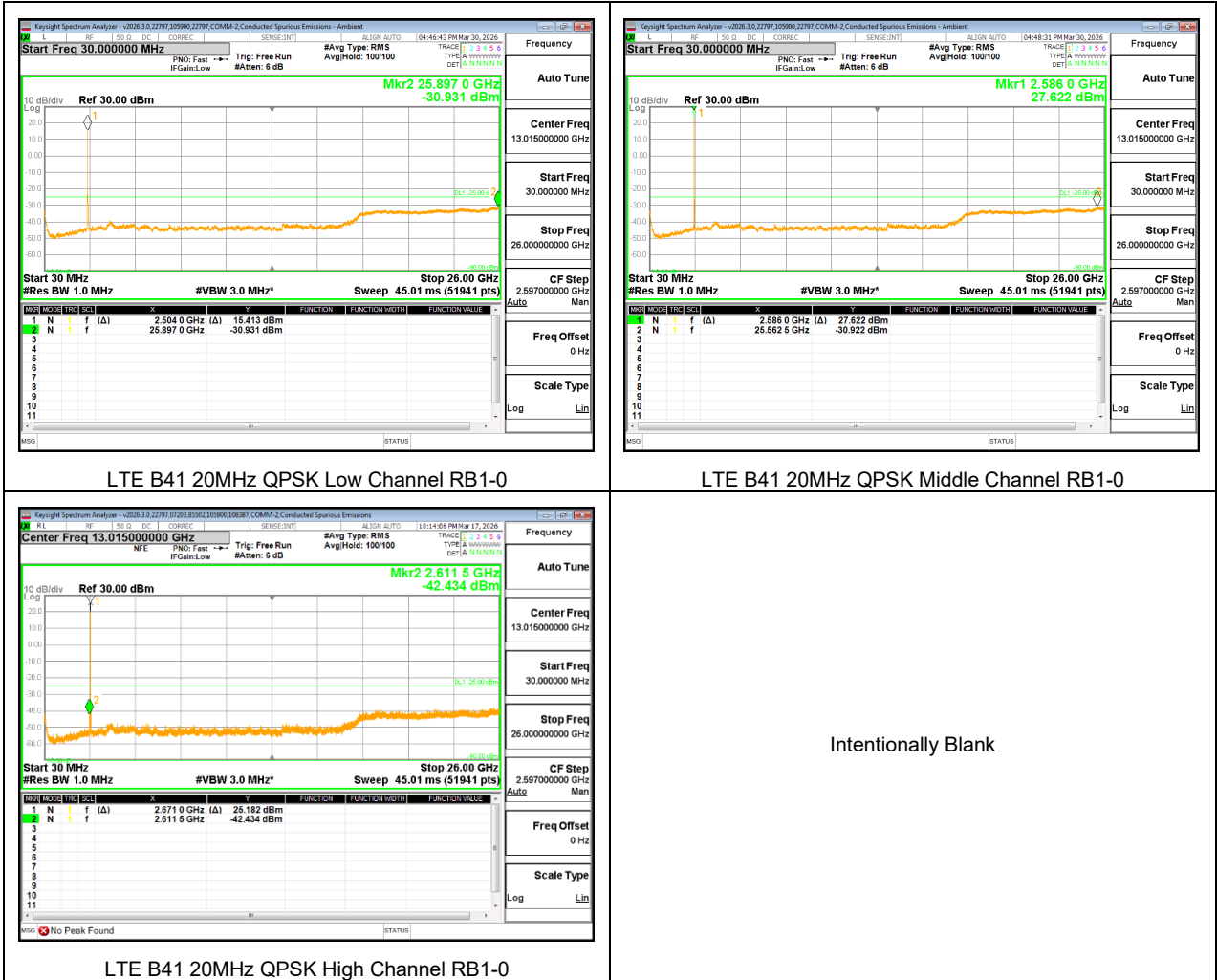


8.3.4. LTE BAND 41 (IC)



8.3.5. 5G NR n41 (IC)



8.4. 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: RSS199§5.4

Frequency Stability

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 100%)

Normal, 3.89VDC

End Voltage, 3.69VDC.

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

8.4.1. LTE B41 (QPSK 20MHz BANDWIDTH, FCC)

Test Engineer ID:		105900/84740		Test Date:		2026-03-05 to 2026-04-08	
Band		41	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2496	2690				
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)	Frequency Stability (ppm)		Within Authorized Frequency Block (Hz)	
Temperature	Voltage						
Normal (20°C)		Normal	2489.5938	2695.6438			
Extreme (50°C)			2489.5938	2695.6438	5.98	0.002	Yes
Extreme (40°C)			2489.5938	2695.6438	4.82	0.002	Yes
Extreme (30°C)			2489.5937	2695.6437	-5.11	-0.002	Yes
Extreme (10°C)			2489.5938	2695.6438	6.33	0.002	Yes
Extreme (0°C)			2489.5938	2695.6438	3.12	0.001	Yes
Extreme (-10°C)			2489.5938	2695.6438	4.58	0.002	Yes
Extreme (-20°C)			2489.5938	2695.6438	4.11	0.002	Yes
Extreme (-30°C)			2489.5937	2695.6437	-4.22	-0.002	Yes
20°C		End Point Voltage	2489.5938	2695.6438	5.38	0.002	Yes

8.4.2. ULCA LTE BAND 41C (QPSK, 20+20MHZ BW, FCC)

Band	41	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2496	2690		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	2562.8250	2629.7750			
Extreme (50°C)		2562.8250	2629.7750	21.8	0.008	Yes
Extreme (40°C)		2562.8250	2629.7750	-5.71	-0.002	Yes
Extreme (30°C)		2562.8250	2629.7750	-17.11	-0.007	Yes
Extreme (10°C)		2562.8250	2629.7750	-31.47	-0.012	Yes
Extreme (0°C)		2562.8250	2629.7750	-40.23	-0.016	Yes
Extreme (-10°C)		2562.8250	2629.7750	-37.29	-0.014	Yes
Extreme (-20°C)		2562.8250	2629.7750	-32.34	-0.012	Yes
Extreme (-30°C)		2562.8250	2629.7750	-31.21	-0.012	Yes
20°C	End Point Voltage	2562.8250	2629.7750	-18.44	-0.007	Yes

8.4.4. 5G NR n41 (BPSK 100MHz BANDWIDTH, FCC)

Test Engineer ID:		105900/84740		Test Date:		2026-03-05 to 2026-04-08		
Band		41	Frequency Range			Frequency Error Reading (Hz)	Limit	
Condition			2496	2690			Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
			Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)				
Temperature	Voltage							
Normal (20°C)		Normal	2485.7500	2710.8750				
Extreme (50°C)			2485.7500	2710.8750		-0.0296	0.000	Yes
Extreme (40°C)			2485.7500	2710.8750		-0.0073	0.000	Yes
Extreme (30°C)			2485.7500	2710.8750		-0.0086	0.000	Yes
Extreme (10°C)			2485.7500	2710.8750		-0.0078	0.000	Yes
Extreme (0°C)			2485.7500	2710.8750		-0.0085	0.000	Yes
Extreme (-10°C)			2485.7500	2710.8750		-0.0161	0.000	Yes
Extreme (-20°C)			2485.7500	2710.8750		-0.0013	0.000	Yes
Extreme (-30°C)			2485.7500	2710.8750		-0.0032	0.000	Yes
20°C		End Point Voltage	2485.7500	2710.8750		-0.0153	0.000	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

ISED: RSS199§5.5

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

The worst-case antenna port for conducted power shown in section 6.4. 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.

TEST METHOD

The EUT was connected to a wideband power sensor for peak and average power.

8.5.1. LTE BAND 41 (FCC)

Test Engineer ID:	105900	Test Date:	2026-03-03 to 2026-04-09
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to- Average
						Peak	Average	Power Ratio (dB)
LTE Band 41	5MHz	2593.0	25	0	QPSK	27.14	22.96	4.18
					16QAM	27.19	21.92	5.27
	10MHz		50	0	QPSK	27.22	23.10	4.12
					16QAM	27.32	21.99	5.33
	15MHz		75	0	QPSK	27.33	22.92	4.41
					16QAM	27.12	21.98	5.14
	20MHz		100	0	QPSK	27.38	22.98	4.40
					16QAM	27.38	21.97	5.41
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.2. ULCA LTE BAND 41C

Test Engineer ID:	105900	Test Date:	2026-05-12
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Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
					Peak	Average	
ULCA LTE Band 41 (FCC)	20MHz / 10MHz	2588.1	2602.5	QPSK	25.53	17.17	8.36
				16QAM	27.80	19.5	8.30
	15MHz / 15MHz	2585.5	2600.5	QPSK	26.90	19.49	7.41
				16QAM	26.19	18.07	8.12
	15MHz / 20MHz	2583.3	2600.4	QPSK	26.74	19.55	7.19
				16QAM	18.63	27.03	-8.40
	20MHz / 15MHz	2585.6	2602.7	QPSK	27.85	19.87	7.98
				16QAM	27.29	18.89	8.40
20MHz / 20MHz	2583.1	2602.9	QPSK	27.18	19.63	7.55	
			16QAM	26.88	18.71	8.17	
Duty Cycle Correction Factor (dB)							
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

8.5.3. 5G NR n41 (FCC)

Test Engineer ID:	105900	Test Date:	2026-03-03 to 2026-04-09
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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 n41	10MHz	2595.0	24	0	BPSK	29.37	0	29.37
					16QAM	29.50	0	29.50
	15MHz		36	0	BPSK	29.84	25.38	4.46
					16QAM	29.71	24.73	4.98
	20MHz		50	0	BPSK	29.4	25.29	4.11
					16QAM	29.57	24.68	4.89
	25MHz		64	0	BPSK	30.14	25.44	4.70
					16QAM	29.81	24.77	5.04
	30MHz		75	0	BPSK	29.62	25.50	4.12
					16QAM	29.48	24.80	4.68
	35MHz		90	0	BPSK	29.72	25.4	4.32
					16QAM	29.59	24.78	4.81
	40MHz		100	0	BPSK	29.42	25.35	4.07
					16QAM	29.29	24.80	4.49
	45MHz		108	0	BPSK	29.64	25.51	4.13
					16QAM	29.47	23.9	5.57
	50MHz		128	0	BPSK	29.52	25.40	4.12
					16QAM	29.31	24.87	4.44
	60MHz		162	0	BPSK	29.12	25.28	3.84
					16QAM	29.02	24.66	4.36
	70MHz		180	0	BPSK	28.79	25.36	3.43
					16QAM	29.04	24.68	4.36
	80MHz		216	0	BPSK	28.85	25.39	3.46
					16QAM	28.54	24.76	3.78
	90MHz		243	0	BPSK	28.68	25.44	3.24
					16QAM	28.39	24.80	3.59
	100MHz		270	0	BPSK	28.92	25.60	3.32
					16QAM	28.63	24.81	3.82
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9. RADIATED TEST RESULTS

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.

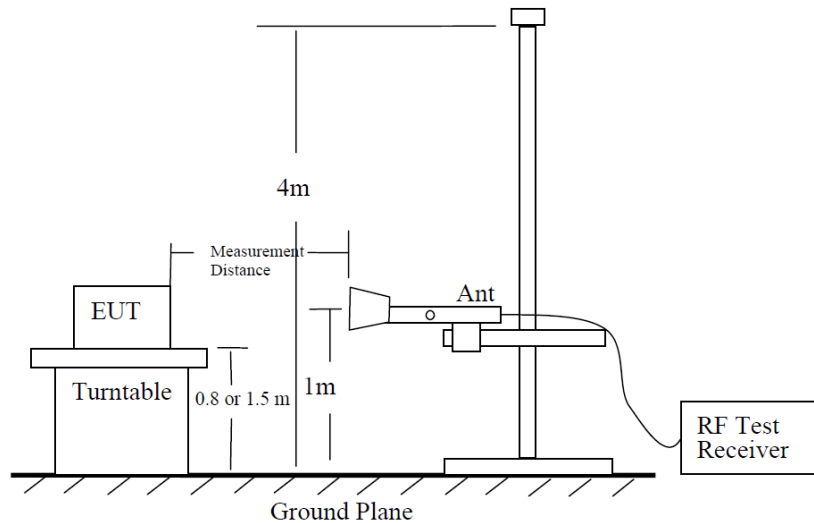


Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

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.

9.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: 27.50 (h) (2)
ISED: RSS199§5.5

LIMITS

FCC: 27.50 (h) - Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

ISED: RSS199§5.5 - The maximum output power of the equipment shall comply with the limits referred as the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

Subscriber equipment other than fixed subscriber equipment shall not exceed an e.i.r.p of 2W per channel bandwidth

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.

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

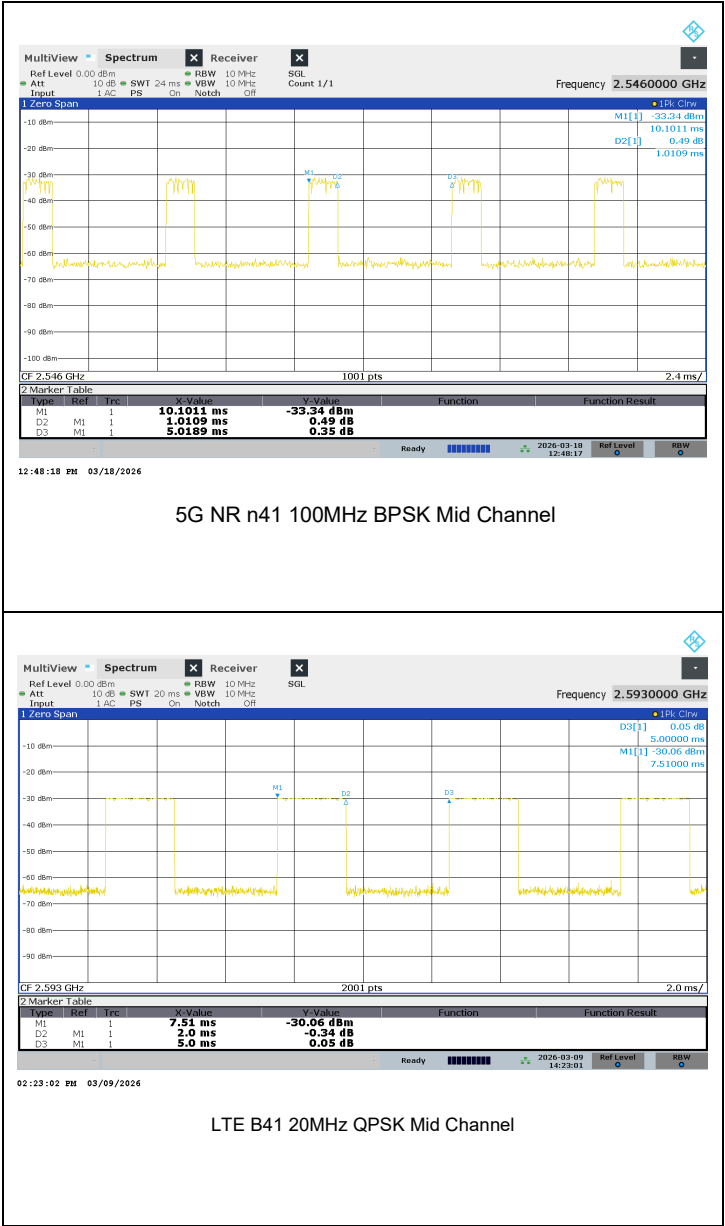
For average power measurements:

- a) Set span to at least 1.5 times the OBW;
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz;
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set number of points in sweep $\geq 2 \times$ span / RBW;
- e) Sweep time = auto-couple;
- f) Detector = RMS (power averaging);
- g) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- h) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
Config 0						
LTE B41 - QPSK	2.000	5.000	0.400	40.00	3.98	0.500
GNR FR1 n41 - BPSK	1.011	5.019	0.201	20.14	6.96	0.989



9.1.1. LTE BAND 41(38) FCC

High Frequency Substitution Measurement

UL Morrisville Chamber 4

Company: RFSL
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2498.500	LTE B41/38 5 MHz FCC (ANT B)	RB1-0	QPSK	0.075	18.75	33.01	-14.26
2593.000		RB1-12	QPSK	0.071	18.50	33.01	-14.51
2687.500		RB1-24	QPSK	0.070	18.45	33.01	-14.56
2498.500		RB1-0	16QAM	0.060	17.78	33.01	-15.23
2593.000		RB1-12	16QAM	0.058	17.65	33.01	-15.36
2687.500		RB1-24	16QAM	0.055	17.40	33.01	-15.61
2501.000	LTE B41/38 10 MHz FCC (ANT B)	RB1-0	QPSK	0.066	18.18	33.01	-14.83
2593.000		RB1-25	QPSK	0.068	18.30	33.01	-14.71
2685.000		RB1-49	QPSK	0.067	18.25	33.01	-14.76
2501.000		RB1-0	16QAM	0.053	17.24	33.01	-15.77
2593.000		RB1-25	16QAM	0.057	17.53	33.01	-15.48
2685.000		RB1-49	16QAM	0.056	17.52	33.01	-15.49
2503.500	LTE B41/38 15 MHz FCC (ANT B)	RB1-0	QPSK	0.070	18.43	33.01	-14.58
2593.000		RB1-37	QPSK	0.071	18.50	33.01	-14.51
2682.500		RB1-74	QPSK	0.072	18.55	33.01	-14.46
2503.500		RB1-0	16QAM	0.058	17.64	33.01	-15.37
2593.000		RB1-37	16QAM	0.056	17.50	33.01	-15.51
2682.500		RB1-74	16QAM	0.056	17.48	33.01	-15.53
2506.000	LTE41(38)/20MHz FCC (ANT B)	RB1-0	QPSK	0.064	18.08	33.01	-14.93
2593.000		RB1-49	QPSK	0.072	18.60	33.01	-14.41
2680.000		RB1-99	QPSK	0.059	17.69	33.01	-15.32
2506.000		RB1-0	16QAM	0.054	17.29	33.01	-15.72
2593.000		RB1-49	16QAM	0.058	17.64	33.01	-15.37
2680.000		RB1-99	16QAM	0.052	17.20	33.01	-15.81

CONFIG 0, QPSK/16QAM

High Frequency Substitution Measurement

UL Morrisville Chamber 4

Company: RFSL
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2498.500	LTE B41/38 5 MHz FCC (ANT G)	RB1-0	QPSK	0.113	20.54	33.01	-12.47
2593.000		RB1-12	QPSK	0.101	20.03	33.01	-12.98
2687.500		RB1-24	QPSK	0.104	20.15	33.01	-12.86
2498.500		RB1-0	16QAM	0.093	19.67	33.01	-13.34
2593.000		RB1-12	16QAM	0.088	19.42	33.01	-13.59
2687.500		RB1-24	16QAM	0.086	19.34	33.01	-13.67
2501.000	LTE B41/38 10 MHz FCC (ANT G)	RB1-0	QPSK	0.111	20.44	33.01	-12.57
2593.000		RB1-25	QPSK	0.100	19.98	33.01	-13.03
2685.000		RB1-49	QPSK	0.104	20.17	33.01	-12.84
2501.000		RB1-0	16QAM	0.109	20.38	33.01	-12.63
2593.000		RB1-25	16QAM	0.085	19.28	33.01	-13.73
2685.000		RB1-49	16QAM	0.086	19.35	33.01	-13.66
2503.500	LTE B41/38 15 MHz FCC (ANT G)	RB1-0	QPSK	0.110	20.41	33.01	-12.60
2593.000		RB1-37	QPSK	0.101	20.04	33.01	-12.97
2682.500		RB1-74	QPSK	0.102	20.08	33.01	-12.93
2503.500		RB1-0	16QAM	0.093	19.67	33.01	-13.34
2593.000		RB1-37	16QAM	0.086	19.33	33.01	-13.68
2682.500		RB1-74	16QAM	0.086	19.36	33.01	-13.65
2506.000	LTE41(38)/20MHz FCC (ANT G)	RB1-0	QPSK	0.073	18.64	33.01	-14.37
2593.000		RB1-49	QPSK	0.070	18.48	33.01	-14.53
2680.000		RB1-99	QPSK	0.101	20.04	33.01	-12.97
2506.000		RB1-0	16QAM	0.063	18.01	33.01	-15.00
2593.000		RB1-49	16QAM	0.060	17.78	33.01	-15.23
2680.000		RB1-99	16QAM	0.089	19.49	33.01	-13.52

CONFIG 1, QPSK/16QAM

9.1.2. ULCA LTE BAND 41

High Frequency Substitution Measurement

UL Morrisville Chamber 4

Company: RFSL
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	PCC RB Size-Offset	SCC RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2515.900	ULCA LTE B41 ANT B (20+20 MHz)	RB1-99	RB1-0	QPSK	0.121	20.82	33.01	-12.19
2593.000		RB1-99	RB1-0	QPSK	0.128	21.07	33.01	-11.94
2670.100		RB1-99	RB1-0	QPSK	0.092	19.63	33.01	-13.38
2515.900		RB1-99	RB1-0	16QAM	0.092	19.62	33.01	-13.39
2593.000		RB1-99	RB1-0	16QAM	0.109	20.37	33.01	-12.64
2670.100		RB1-99	RB1-0	16QAM	0.077	18.88	33.01	-14.13

CONFIG 0, QPSK/16QAM

Freq (MHz)	Band/Bandwidth	PCC RB Size-Offset	SCC RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2515.900	ULCA LTE B41 ANT F (20+20 MHz)	RB1-99	RB1-0	QPSK	0.232	23.66	33.01	-9.35
2593.000		RB1-99	RB1-0	QPSK	0.138	21.39	33.01	-11.62
2670.100		RB1-99	RB1-0	QPSK	0.261	24.17	33.01	-8.84
2515.900		RB1-99	RB1-0	16QAM	0.188	22.75	33.01	-10.26
2593.000		RB1-99	RB1-0	16QAM	0.111	20.44	33.01	-12.57
2670.100		RB1-99	RB1-0	16QAM	0.129	21.09	33.01	-11.92

CONFIG 1, QPSK/16QAM

9.1.4. LTE BAND 41(38) IC

High Frequency Substitution Measurement

UL Morrisville Chamber 4

Company: RFSL
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2502.500	LTE B41/38 5 MHz IC (ANT B)	RB1-0	QPSK	0.085	19.28	33.01	-13.73
2595.000		RB1-12	QPSK	0.087	19.40	33.01	-13.61
2687.500		RB1-24	QPSK	0.077	18.84	33.01	-14.17
2502.500		RB1-0	16QAM	0.073	18.65	33.01	-14.36
2595.000		RB1-12	16QAM	0.078	18.90	33.01	-14.11
2687.500		RB1-24	16QAM	0.067	18.25	33.01	-14.76
2505.000	LTE B41/38 10 MHz IC (ANT B)	RB1-0	QPSK	0.088	19.44	33.01	-13.57
2595.000		RB1-25	QPSK	0.085	19.29	33.01	-13.72
2685.000		RB1-49	QPSK	0.073	18.64	33.01	-14.37
2505.000		RB1-0	16QAM	0.089	19.47	33.01	-13.54
2595.000		RB1-25	16QAM	0.072	18.57	33.01	-14.44
2685.000		RB1-49	16QAM	0.069	18.37	33.01	-14.64
2507.500	LTE B41/38 15 MHz IC (ANT B)	RB1-0	QPSK	0.072	18.55	33.01	-14.46
2595.000		RB1-37	QPSK	0.085	19.28	33.01	-13.73
2682.500		RB1-74	QPSK	0.078	18.95	33.01	-14.06
2507.500		RB1-0	16QAM	0.062	17.89	33.01	-15.12
2595.000		RB1-37	16QAM	0.075	18.73	33.01	-14.28
2682.500		RB1-74	16QAM	0.068	18.33	33.01	-14.68
2510.000	LTE41(38)/20MHz IC (ANT B)	RB1-0	QPSK	0.069	18.36	33.01	-14.65
2595.000		RB1-49	QPSK	0.085	19.29	33.01	-13.72
2680.000		RB1-99	QPSK	0.073	18.65	33.01	-14.36
2510.000		RB1-0	16QAM	0.058	17.60	33.01	-15.41
2595.000		RB1-49	16QAM	0.071	18.49	33.01	-14.52
2680.000		RB1-99	16QAM	0.062	17.93	33.01	-15.08

CONFIG 0, QPSK/16QAM

High Frequency Substitution Measurement

UL Morrisville Chamber 4

Company: RFSL
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2502.500	LTE B41/38 5 MHz IC (ANT G)	RB1-0	QPSK	0.119	20.77	33.01	-12.24
2595.000		RB1-12	QPSK	0.168	22.24	33.01	-10.77
2687.500		RB1-24	QPSK	0.174	22.41	33.01	-10.60
2502.500		RB1-0	16QAM	0.098	19.93	33.01	-13.08
2595.000		RB1-12	16QAM	0.134	21.28	33.01	-11.73
2687.500		RB1-24	16QAM	0.141	21.50	33.01	-11.51
2505.000	LTE B41/38 10 MHz IC (ANT G)	RB1-0	QPSK	0.119	20.76	33.01	-12.25
2595.000		RB1-25	QPSK	0.168	22.24	33.01	-10.77
2685.000		RB1-49	QPSK	0.172	22.36	33.01	-10.65
2505.000		RB1-0	16QAM	0.101	20.05	33.01	-12.96
2595.000		RB1-25	16QAM	0.139	21.42	33.01	-11.59
2685.000		RB1-49	16QAM	0.137	21.37	33.01	-11.64
2507.500	LTE B41/38 15 MHz IC (ANT G)	RB1-0	QPSK	0.114	20.57	33.01	-12.44
2595.000		RB1-37	QPSK	0.167	22.23	33.01	-10.78
2682.500		RB1-74	QPSK	0.172	22.35	33.01	-10.66
2507.500		RB1-0	16QAM	0.097	19.85	33.01	-13.16
2595.000		RB1-37	16QAM	0.138	21.40	33.01	-11.61
2682.500		RB1-74	16QAM	0.138	21.41	33.01	-11.60
2510.000	LTE41(38)/20MHz IC (ANT G)	RB1-0	QPSK	0.130	21.13	33.01	-11.88
2595.000		RB1-49	QPSK	0.095	19.77	33.01	-13.24
2680.000		RB1-99	QPSK	0.171	22.32	33.01	-10.69
2510.000		RB1-0	16QAM	0.104	20.19	33.01	-12.82
2595.000		RB1-49	16QAM	0.081	19.11	33.01	-13.90
2680.000		RB1-99	16QAM	0.135	21.30	33.01	-11.71

CONFIG 1, QPSK/16QAM

9.1.5. 5G NR n41(38) FCC IC

High Frequency Substitution Measurement

UL Morrisville Chamber 4

Company: RFSL
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2501.010	n41(38) / 10 MHz (ANT G)	RB1-1	BPSK	0.160	22.05	33.01	-10.96
2505.000		RB1-1	BPSK	0.159	22.01	33.01	-11.00
2595.000		RB1-12	BPSK	0.168	22.26	33.01	-10.75
2592.990		RB1-12	BPSK	0.169	22.28	33.01	-10.73
2685.000		RB1-22	BPSK	0.196	22.93	33.01	-10.08
2501.010		RB1-1	16QAM	0.177	22.48	33.01	-10.53
2505.000		RB1-1	16QAM	0.154	21.87	33.01	-11.14
2595.000		RB1-12	16QAM	0.147	21.68	33.01	-11.33
2592.990		RB1-12	16QAM	0.151	21.79	33.01	-11.22
2685.000		RB1-22	16QAM	0.183	22.63	33.01	-10.38
2503.500	n41(38) / 15 MHz (ANT G)	RB1-1	BPSK	0.210	23.22	33.01	-9.79
2507.520		RB1-1	BPSK	0.207	23.16	33.01	-9.85
2595.000		RB1-19	BPSK	0.187	22.72	33.01	-10.29
2592.990		RB1-19	BPSK	0.192	22.84	33.01	-10.17
2682.480		RB1-36	BPSK	0.209	23.21	33.01	-9.80
2503.500		RB1-1	16QAM	0.173	22.38	33.01	-10.63
2507.520		RB1-1	16QAM	0.170	22.30	33.01	-10.71
2595.000		RB1-19	16QAM	0.157	21.95	33.01	-11.06
2592.990		RB1-19	16QAM	0.157	21.95	33.01	-11.06
2682.480		RB1-36	16QAM	0.175	22.44	33.01	-10.57
2506.020	n41(38) / 20 MHz (ANT G)	RB1-1	BPSK	0.203	23.08	33.01	-9.93
2510.010		RB1-1	BPSK	0.206	23.13	33.01	-9.88
2595.000		RB1-25	BPSK	0.188	22.75	33.01	-10.26
2592.990		RB1-25	BPSK	0.192	22.83	33.01	-10.18
2679.990		RB1-49	BPSK	0.207	23.15	33.01	-9.86
2506.020		RB1-1	16QAM	0.168	22.26	33.01	-10.75
2510.010		RB1-1	16QAM	0.169	22.27	33.01	-10.74

	2595.000		RB1-25	16QAM	0.157	21.95	33.01	-11.06
	2592.990		RB1-25	16QAM	0.155	21.89	33.01	-11.12
	2679.990		RB1-49	16QAM	0.174	22.40	33.01	-10.61
	2508.510	n41(38) / 25 MHz (ANT G)	RB1-1	BPSK	0.208	23.19	33.01	-9.82
	2512.500		RB1-1	BPSK	0.209	23.20	33.01	-9.81
	2595.000		RB1-32	BPSK	0.196	22.92	33.01	-10.09
	2592.990		RB1-32	BPSK	0.198	22.97	33.01	-10.04
	2677.500		RB1-63	BPSK	0.204	23.09	33.01	-9.92
	2508.510		RB1-1	16QAM	0.173	22.39	33.01	-10.62
	2512.500		RB1-1	16QAM	0.170	22.31	33.01	-10.70
	2595.000		RB1-32	16QAM	0.159	22.02	33.01	-10.99
	2592.990		RB1-32	16QAM	0.158	21.98	33.01	-11.03
	2677.500		RB1-63	16QAM	0.175	22.44	33.01	-10.57
	2511.000	n41(38) / 30 MHz (ANT G)	RB1-1	BPSK	0.209	23.21	33.01	-9.80
	2515.020		RB1-1	BPSK	0.206	23.14	33.01	-9.87
	2595.000		RB1-39	BPSK	0.192	22.83	33.01	-10.18
	2592.990		RB1-39	BPSK	0.195	22.91	33.01	-10.10
	2674.980		RB1-76	BPSK	0.210	23.22	33.01	-9.79
	2511.000		RB1-1	16QAM	0.174	22.41	33.01	-10.60
	2515.020		RB1-1	16QAM	0.175	22.43	33.01	-10.58
	2595.000		RB1-39	16QAM	0.159	22.01	33.01	-11.00
	2592.990		RB1-39	16QAM	0.163	22.12	33.01	-10.89
	2674.980		RB1-76	16QAM	0.177	22.49	33.01	-10.52
	2513.520	n41(38) / 35 MHz (ANT G)	RB1-1	BPSK	0.204	23.09	33.01	-9.92
	2517.510		RB1-1	BPSK	0.201	23.03	33.01	-9.98
	2595.000		RB1-46	BPSK	0.195	22.91	33.01	-10.10
	2592.990		RB1-46	BPSK	0.200	23.00	33.01	-10.01
	2672.460		RB1-90	BPSK	0.208	23.19	33.01	-9.82
	2513.520		RB1-1	16QAM	0.170	22.31	33.01	-10.70
	2517.510		RB1-1	16QAM	0.167	22.22	33.01	-10.79
	2595.000		RB1-46	16QAM	0.157	21.95	33.01	-11.06
	2592.990		RB1-46	16QAM	0.159	22.02	33.01	-10.99
	2672.460		RB1-90	16QAM	0.177	22.48	33.01	-10.53
	2516.010	n41(38) / 40 MHz (ANT G)	RB1-1	BPSK	0.196	22.93	33.01	-10.08
	2520.000		RB1-1	BPSK	0.195	22.90	33.01	-10.11
	2595.000		RB1-53	BPSK	0.191	22.82	33.01	-10.19
	2592.990		RB1-53	BPSK	0.195	22.91	33.01	-10.10
	2670.000		RB1-104	BPSK	0.199	22.99	33.01	-10.02
	2516.010		RB1-1	16QAM	0.164	22.16	33.01	-10.85

	2520.000		RB1-1	16QAM	0.162	22.09	33.01	-10.92
	2595.000		RB1-53	16QAM	0.157	21.96	33.01	-11.05
	2592.990		RB1-53	16QAM	0.157	21.96	33.01	-11.05
	2670.000		RB1-104	16QAM	0.173	22.39	33.01	-10.62
	2518.500	n41(38) / 45 MHz (ANT G)	RB1-1	BPSK	0.205	23.11	33.01	-9.90
	2522.520		RB1-1	BPSK	0.205	23.11	33.01	-9.90
	2595.000		RB1-59	BPSK	0.193	22.85	33.01	-10.16
	2592.990		RB1-59	BPSK	0.200	23.00	33.01	-10.01
	2667.480		RB1-117	BPSK	0.207	23.15	33.01	-9.86
	2518.500		RB1-1	16QAM	0.174	22.40	33.01	-10.61
	2522.520		RB1-1	16QAM	0.171	22.34	33.01	-10.67
	2595.000		RB1-59	16QAM	0.159	22.02	33.01	-10.99
	2592.990		RB1-59	16QAM	0.163	22.11	33.01	-10.90
	2667.480		RB1-117	16QAM	0.179	22.54	33.01	-10.47
	2521.020	n41(38) / 50 MHz (ANT G)	RB1-1	BPSK	0.203	23.07	33.01	-9.94
	2525.010		RB1-1	BPSK	0.202	23.06	33.01	-9.95
	2595.000		RB1-66	BPSK	0.193	22.86	33.01	-10.15
	2592.990		RB1-66	BPSK	0.198	22.96	33.01	-10.05
	2664.990		RB1-131	BPSK	0.212	23.26	33.01	-9.75
	2521.020		RB1-1	16QAM	0.175	22.42	33.01	-10.59
	2525.010		RB1-1	16QAM	0.167	22.22	33.01	-10.79
	2595.000		RB1-66	16QAM	0.161	22.06	33.01	-10.95
	2592.990		RB1-66	16QAM	0.159	22.02	33.01	-10.99
	2664.990		RB1-131	16QAM	0.182	22.60	33.01	-10.41
	2526.000	n41(38) / 60 MHz (ANT G)	RB1-1	BPSK	0.195	22.91	33.01	-10.10
	2530.020		RB1-1	BPSK	0.191	22.80	33.01	-10.21
	2595.000		RB1-81	BPSK	0.185	22.66	33.01	-10.35
	2592.990		RB1-81	BPSK	0.185	22.68	33.01	-10.33
	2659.980		RB1-160	BPSK	0.203	23.07	33.01	-9.94
	2526.000		RB1-1	16QAM	0.166	22.19	33.01	-10.82
	2530.020		RB1-1	16QAM	0.170	22.31	33.01	-10.70
	2595.000		RB1-81	16QAM	0.155	21.89	33.01	-11.12
	2592.990		RB1-81	16QAM	0.152	21.82	33.01	-11.19
	2659.980		RB1-160	16QAM	0.173	22.38	33.01	-10.63
	2531.010	n41(38) / 70 MHz (ANT G)	RB1-1	BPSK	0.200	23.02	33.01	-9.99
	2535.000		RB1-1	BPSK	0.201	23.04	33.01	-9.97
	2595.000		RB1-94	BPSK	0.190	22.79	33.01	-10.22
	2592.990		RB1-94	BPSK	0.192	22.84	33.01	-10.17
	2655.000		RB1-187	BPSK	0.206	23.13	33.01	-9.88

	2531.010		RB1-1	16QAM	0.168	22.26	33.01	-10.75
	2535.000		RB1-1	16QAM	0.165	22.17	33.01	-10.84
	2595.000		RB1-94	16QAM	0.156	21.93	33.01	-11.08
	2592.990		RB1-94	16QAM	0.158	21.98	33.01	-11.03
	2655.000		RB1-187	16QAM	0.175	22.44	33.01	-10.57
	2536.020	n41(38) / 80 MHz (ANT G)	RB1-1	BPSK	0.249	23.96	33.01	-9.05
	2540.010		RB1-1	BPSK	0.344	25.37	33.01	-7.64
	2595.000		RB1-108	BPSK	0.215	23.33	33.01	-9.68
	2592.990		RB1-108	BPSK	0.219	23.41	33.01	-9.60
	2649.990		RB1-215	BPSK	0.226	23.54	33.01	-9.47
	2536.020		RB1-1	16QAM	0.202	23.05	33.01	-9.96
	2540.010		RB1-1	16QAM	0.208	23.18	33.01	-9.83
	2595.000		RB1-108	16QAM	0.182	22.6	33.01	-10.41
	2592.990		RB1-108	16QAM	0.180	22.56	33.01	-10.45
	2649.990	RB1-215	16QAM	0.201	23.03	33.01	-9.98	
	2541.000	n41(38) / 90 MHz (ANT G)	RB1-1	BPSK	0.318	25.02	33.01	-7.99
	2545.020		RB1-1	BPSK	0.345	25.38	33.01	-7.63
	2595.000		RB1-122	BPSK	0.151	21.78	33.01	-11.23
	2592.990		RB1-122	BPSK	0.155	21.89	33.01	-11.12
	2644.980		RB1-243	BPSK	0.357	25.53	33.01	-7.48
	2541.000		RB1-1	16QAM	0.201	23.04	33.01	-9.97
	2545.020		RB1-1	16QAM	0.204	23.10	33.01	-9.91
	2595.000		RB1-122	16QAM	0.183	22.63	33.01	-10.38
	2592.990		RB1-122	16QAM	0.182	22.59	33.01	-10.42
	2644.980		RB1-243	16QAM	0.203	23.08	33.01	-9.93
	2546.010	n41(38) / 100MHz (ANT G)	RB1-1	BPSK	0.208	23.18	33.01	-9.83
	2550.000		RB1-1	BPSK	0.195	22.91	33.01	-10.10
	2592.990		RB1-135	BPSK	0.125	20.96	33.01	-12.05
	2595.000		RB1-135	BPSK	0.117	20.69	33.01	-12.32
	2640.000		RB1-272	BPSK	0.148	21.69	33.01	-11.32
	2546.010		RB1-1	16QAM	0.200	23.02	33.01	-9.99
	2550.000		RB1-1	16QAM	0.188	22.74	33.01	-10.27
	2592.990		RB1-135	16QAM	0.116	20.66	33.01	-12.35
	2595.000		RB1-135	16QAM	0.112	20.51	33.01	-12.50
	2640.000		RB1-272	16QAM	0.146	21.65	33.01	-11.36
CONFIG 0, BPSK/16QAM								

High Frequency Substitution Measurement

UL Morrisville Chamber 4

Company: RFSL
Project #: 16238088
Date: 2026-03-05 – 2026-04-14
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2501.010	n41(38) / 10 MHz (ANT B)	RB1-1	BPSK	0.132	21.21	33.01	-11.80
2505.000		RB1-1	BPSK	0.096	19.83	33.01	-13.18
2595.000		RB1-12	BPSK	0.127	21.05	33.01	-11.96
2592.990		RB1-12	BPSK	0.131	21.18	33.01	-11.83
2685.000		RB1-22	BPSK	0.142	21.51	33.01	-11.50
2501.010		RB1-1	16QAM	0.097	19.85	33.01	-13.16
2505.000		RB1-1	16QAM	0.090	19.56	33.01	-13.45
2595.000		RB1-12	16QAM	0.075	18.75	33.01	-14.26
2592.990		RB1-12	16QAM	0.080	19.01	33.01	-14.00
2685.000		RB1-22	16QAM	0.091	19.61	33.01	-13.40
2503.500	n41(38) / 15 MHz (ANT B)	RB1-1	BPSK	0.132	21.19	33.01	-11.82
2507.520		RB1-1	BPSK	0.136	21.34	33.01	-11.67
2595.000		RB1-19	BPSK	0.124	20.95	33.01	-12.06
2592.990		RB1-19	BPSK	0.127	21.03	33.01	-11.98
2682.480		RB1-36	BPSK	0.130	21.15	33.01	-11.86
2503.500		RB1-1	16QAM	0.095	19.79	33.01	-13.22
2507.520		RB1-1	16QAM	0.097	19.89	33.01	-13.12
2595.000		RB1-19	16QAM	0.100	19.98	33.01	-13.03
2592.990		RB1-19	16QAM	0.092	19.66	33.01	-13.35
2682.480		RB1-36	16QAM	0.094	19.71	33.01	-13.30
2506.020	n41(38) / 20 MHz (ANT B)	RB1-1	BPSK	0.124	20.93	33.01	-12.08
2510.010		RB1-1	BPSK	0.135	21.30	33.01	-11.71
2595.000		RB1-25	BPSK	0.125	20.97	33.01	-12.04
2592.990		RB1-25	BPSK	0.128	21.06	33.01	-11.95
2679.990		RB1-49	BPSK	0.129	21.10	33.01	-11.91
2506.020		RB1-1	16QAM	0.092	19.66	33.01	-13.35
2510.010		RB1-1	16QAM	0.093	19.69	33.01	-13.32
2595.000		RB1-25	16QAM	0.100	20.01	33.01	-13.00
2592.990		RB1-25	16QAM	0.091	19.61	33.01	-13.40

	2679.990		RB1-49	16QAM	0.093	19.67	33.01	-13.34
	2508.510	n41(38) / 25 MHz (ANT B)	RB1-1	BPSK	0.138	21.40	33.01	-11.61
	2512.500		RB1-1	BPSK	0.139	21.43	33.01	-11.58
	2595.000		RB1-32	BPSK	0.124	20.95	33.01	-12.06
	2592.990		RB1-32	BPSK	0.128	21.08	33.01	-11.93
	2677.500		RB1-63	BPSK	0.129	21.12	33.01	-11.89
	2508.510		RB1-1	16QAM	0.097	19.88	33.01	-13.13
	2512.500		RB1-1	16QAM	0.100	20.00	33.01	-13.01
	2595.000		RB1-32	16QAM	0.098	19.92	33.01	-13.09
	2592.990		RB1-32	16QAM	0.092	19.62	33.01	-13.39
	2677.500		RB1-63	16QAM	0.094	19.71	33.01	-13.30
	2511.000	n41(38) / 30 MHz (ANT B)	RB1-1	BPSK	0.137	21.38	33.01	-11.63
	2515.020		RB1-1	BPSK	0.134	21.27	33.01	-11.74
	2595.000		RB1-39	BPSK	0.123	20.91	33.01	-12.10
	2592.990		RB1-39	BPSK	0.126	21.00	33.01	-12.01
	2674.980		RB1-76	BPSK	0.133	21.23	33.01	-11.78
	2511.000		RB1-1	16QAM	0.096	19.82	33.01	-13.19
	2515.020		RB1-1	16QAM	0.097	19.86	33.01	-13.15
	2595.000		RB1-39	16QAM	0.097	19.85	33.01	-13.16
	2592.990		RB1-39	16QAM	0.097	19.87	33.01	-13.14
	2674.980		RB1-76	16QAM	0.098	19.93	33.01	-13.08
	2513.520	n41(38) / 35 MHz (ANT B)	RB1-1	BPSK	0.135	21.30	33.01	-11.71
	2517.510		RB1-1	BPSK	0.132	21.19	33.01	-11.82
	2595.000		RB1-46	BPSK	0.125	20.97	33.01	-12.04
	2592.990		RB1-46	BPSK	0.129	21.09	33.01	-11.92
	2672.460		RB1-90	BPSK	0.130	21.13	33.01	-11.88
	2513.520		RB1-1	16QAM	0.096	19.84	33.01	-13.17
	2517.510		RB1-1	16QAM	0.096	19.82	33.01	-13.19
	2595.000		RB1-46	16QAM	0.096	19.83	33.01	-13.18
	2592.990		RB1-46	16QAM	0.099	19.95	33.01	-13.06
	2672.460		RB1-90	16QAM	0.097	19.87	33.01	-13.14
	2516.010	n41(38) / 40 MHz (ANT B)	RB1-1	BPSK	0.132	21.19	33.01	-11.82
	2520.000		RB1-1	BPSK	0.131	21.18	33.01	-11.83
	2595.000		RB1-53	BPSK	0.122	20.88	33.01	-12.13
	2592.990		RB1-53	BPSK	0.126	20.99	33.01	-12.02
	2670.000		RB1-104	BPSK	0.127	21.03	33.01	-11.98
	2516.010		RB1-1	16QAM	0.094	19.74	33.01	-13.27
	2520.000		RB1-1	16QAM	0.092	19.64	33.01	-13.37
	2595.000		RB1-53	16QAM	0.097	19.85	33.01	-13.16

	2592.990		RB1-53	16QAM	0.097	19.87	33.01	-13.14
	2670.000		RB1-104	16QAM	0.096	19.82	33.01	-13.19
	2518.500	n41(38) / 45 MHz (ANT B)	RB1-1	BPSK	0.137	21.36	33.01	-11.65
	2522.520		RB1-1	BPSK	0.137	21.36	33.01	-11.65
	2595.000		RB1-59	BPSK	0.137	21.38	33.01	-11.63
	2592.990		RB1-59	BPSK	0.137	21.38	33.01	-11.63
	2667.480		RB1-117	BPSK	0.126	21.00	33.01	-12.01
	2518.500		RB1-1	16QAM	0.098	19.91	33.01	-13.10
	2522.520		RB1-1	16QAM	0.096	19.81	33.01	-13.20
	2595.000		RB1-59	16QAM	0.101	20.06	33.01	-12.95
	2592.990		RB1-59	16QAM	0.093	19.67	33.01	-13.34
	2667.480		RB1-117	16QAM	0.092	19.65	33.01	-13.36
	2521.020	n41(38) / 50 MHz (ANT B)	RB1-1	BPSK	0.136	21.35	33.01	-11.66
	2525.010		RB1-1	BPSK	0.136	21.33	33.01	-11.68
	2595.000		RB1-66	BPSK	0.126	21.00	33.01	-12.01
	2592.990		RB1-66	BPSK	0.127	21.03	33.01	-11.98
	2664.990		RB1-131	BPSK	0.132	21.20	33.01	-11.81
	2521.020		RB1-1	16QAM	0.100	20.01	33.01	-13.00
	2525.010		RB1-1	16QAM	0.095	19.80	33.01	-13.21
	2595.000		RB1-66	16QAM	0.100	20.02	33.01	-12.99
	2592.990		RB1-66	16QAM	0.091	19.61	33.01	-13.40
	2664.990		RB1-131	16QAM	0.097	19.88	33.01	-13.13
	2526.000	n41(38) / 60 MHz (ANT B)	RB1-1	BPSK	0.129	21.10	33.01	-11.91
	2530.020		RB1-1	BPSK	0.129	21.12	33.01	-11.89
	2595.000		RB1-81	BPSK	0.130	21.15	33.01	-11.86
	2592.990		RB1-81	BPSK	0.133	21.25	33.01	-11.76
	2659.980		RB1-160	BPSK	0.127	21.05	33.01	-11.96
	2526.000		RB1-1	16QAM	0.097	19.87	33.01	-13.14
	2530.020		RB1-1	16QAM	0.097	19.87	33.01	-13.14
	2595.000		RB1-81	16QAM	0.092	19.65	33.01	-13.36
	2592.990		RB1-81	16QAM	0.099	19.94	33.01	-13.07
	2659.980		RB1-160	16QAM	0.095	19.76	33.01	-13.25
	2531.010	n41(38) / 70 MHz (ANT B)	RB1-1	BPSK	0.131	21.16	33.01	-11.85
	2535.000		RB1-1	BPSK	0.131	21.17	33.01	-11.84
	2595.000		RB1-94	BPSK	0.135	21.29	33.01	-11.72
	2592.990		RB1-94	BPSK	0.137	21.36	33.01	-11.65
	2655.000		RB1-187	BPSK	0.126	21.02	33.01	-11.99
	2531.010		RB1-1	16QAM	0.098	19.91	33.01	-13.10
	2535.000		RB1-1	16QAM	0.091	19.61	33.01	-13.40

2595.000		RB1-94	16QAM	0.099	19.97	33.01	-13.04
2592.990		RB1-94	16QAM	0.097	19.88	33.01	-13.13
2655.000		RB1-187	16QAM	0.096	19.82	33.01	-13.19
2536.020	n41(38) / 80 MHz (ANT B)	RB1-1	BPSK	0.135	21.29	33.01	-11.72
2540.010		RB1-1	BPSK	0.135	21.29	33.01	-11.72
2595.000		RB1-108	BPSK	0.122	20.87	33.01	-12.14
2592.990		RB1-108	BPSK	0.124	20.94	33.01	-12.07
2649.990		RB1-215	BPSK	0.127	21.04	33.01	-11.97
2536.020		RB1-1	16QAM	0.098	19.9	33.01	-13.11
2540.010		RB1-1	16QAM	0.097	19.89	33.01	-13.12
2595.000		RB1-108	16QAM	0.095	19.77	33.01	-13.24
2592.990		RB1-108	16QAM	0.097	19.87	33.01	-13.14
2649.990		RB1-215	16QAM	0.098	19.93	33.01	-13.08
2541.000	n41(38) / 90 MHz (ANT B)	RB1-1	BPSK	0.135	21.31	33.01	-11.70
2545.020		RB1-1	BPSK	0.137	21.36	33.01	-11.65
2595.000		RB1-122	BPSK	0.123	20.89	33.01	-12.12
2592.990		RB1-122	BPSK	0.127	21.04	33.01	-11.97
2644.980		RB1-243	BPSK	0.126	21.01	33.01	-12.00
2541.000		RB1-1	16QAM	0.099	19.94	33.01	-13.07
2545.020		RB1-1	16QAM	0.095	19.78	33.01	-13.23
2595.000		RB1-122	16QAM	0.096	19.81	33.01	-13.20
2592.990		RB1-122	16QAM	0.096	19.82	33.01	-13.19
2644.980		RB1-243	16QAM	0.094	19.75	33.01	-13.26
2546.010	n41(38) / 100MHz (ANT B)	RB1-1	BPSK	0.139	21.42	33.01	-11.59
2550.000		RB1-1	BPSK	0.128	21.07	33.01	-11.94
2592.990		RB1-135	BPSK	0.115	20.60	33.01	-12.41
2595.000		RB1-135	BPSK	0.120	20.78	33.01	-12.23
2640.000		RB1-272	BPSK	0.115	20.62	33.01	-12.39
2546.010		RB1-1	16QAM	0.102	20.10	33.01	-12.91
2550.000		RB1-1	16QAM	0.094	19.73	33.01	-13.28
2592.990		RB1-135	16QAM	0.087	19.42	33.01	-13.59
2595.000		RB1-135	16QAM	0.090	19.52	33.01	-13.49
2640.000		RB1-272	16QAM	0.095	19.76	33.01	-13.25
CONFIG 1, BPSK/16QAM							

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS

FCC: §27.53 (m)

At least $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

ISED: RSS199§5.6

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

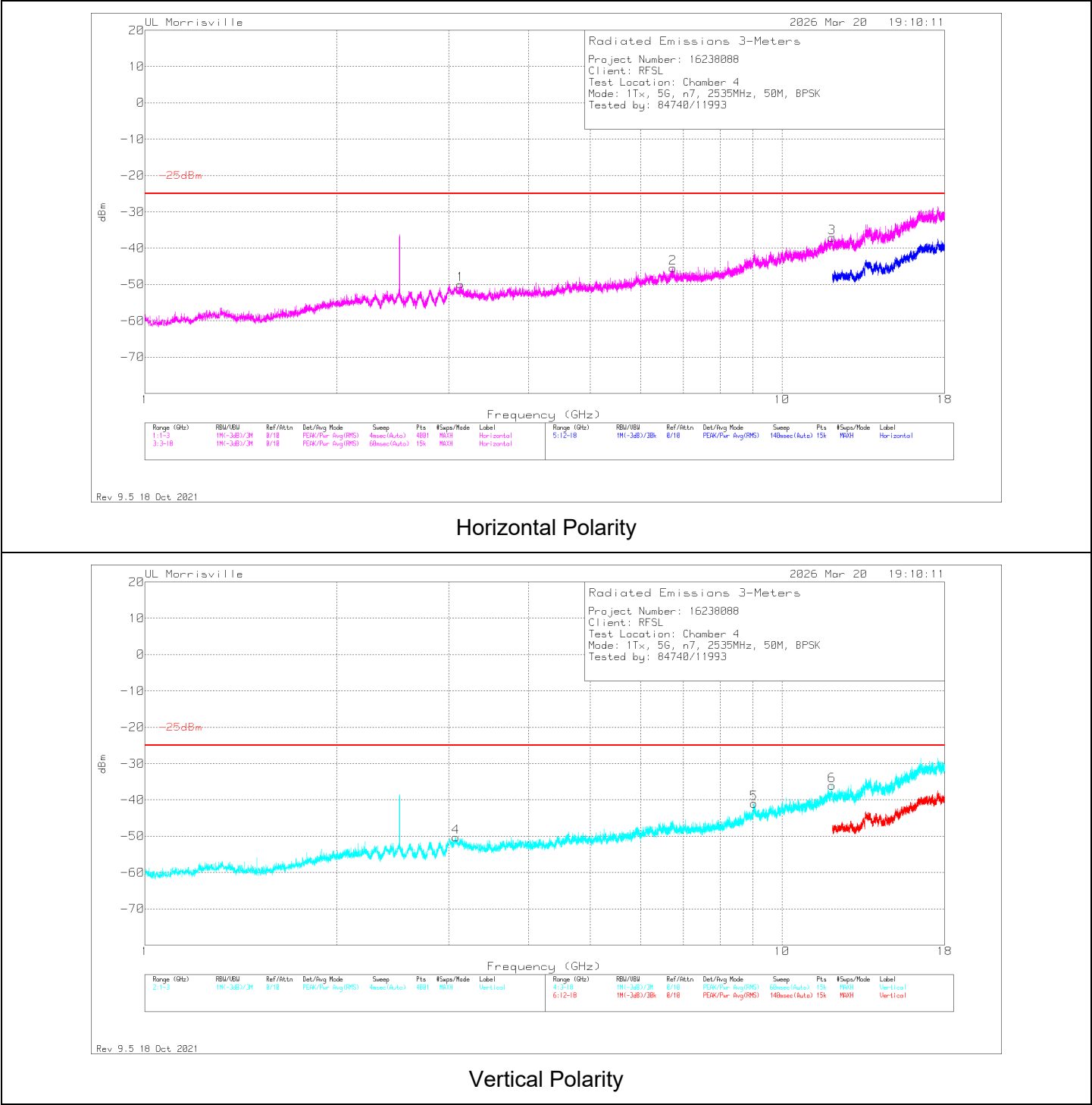
Table 5: Unwanted emission limits for subscriber equipment other than fixed subscriber equipment	
Offset from the edge of the frequency block or frequency block group (MHz)	Unwanted emission limits
0-1	-10 dBm/(2% of OB*)
1-5	-10 dBm/MHz
5-X**	-13 dBm/MHz
≥ X	-25 dBm/MHz

*OB is the occupied bandwidth

** X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

In addition to complying with the limits in table 5, subscriber equipment other than fixed subscriber equipment shall not exceed -13 dBm/MHz on all frequencies between 2490.5 MHz and 2496 MHz, and -25 dBm/MHz at or below 2490.5 MHz

Example Plot



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	88761 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
4	3.076	-63.1	Pk	33	-33.9	11.8	1.9	-50.3	-25	-25.3	0-360
1	3.132	-62.97	Pk	32.9	-33.4	11.8	1.7	-49.97	-25	-24.97	0-360
2	6.742	-66.98	Pk	35.5	-26.2	11.8	.4	-45.48	-25	-20.48	0-360
5	9.035	-66.3	Pk	36	-23.3	11.8	.8	-41	-25	-16	0-360
3	11.976	-66.8	Pk	38.6	-21.6	11.8	.9	-37.1	-25	-12.1	0-360
6	11.988	-65.81	Pk	38.6	-21.5	11.8	.9	-36.01	-25	-11.01	0-360

Pk - Peak detector

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

9.2.1. LTE BAND 41 (FCC)

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-31
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode	1Tx, LTE41
Chamber #:	84740/11993

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 2506MHz										
1909.5	-42.98	Pk	31	-49.4	11.8	1.2	-48.38	-25	-23.38	V
3123	-52.53	Pk	33.1	-45.3	11.8	1.9	-51.03	-25	-26.03	H
3349	-53.8	Pk	32.9	-45	11.8	1.1	-53	-25	-28	H
6617	-54.78	Pk	35.7	-42	11.8	.5	-48.78	-25	-23.78	V
10421	-55.16	Pk	37.6	-39.8	11.8	1.6	-43.96	-25	-18.96	H
13127	-56.13	Pk	38.6	-37.3	11.8	.5	-42.53	-25	-17.53	V
Mid Channel, 2593MHz										
6174	-53.91	Pk	35.7	-43	11.8	.5	-48.91	-25	-23.91	H
6600	-54.48	Pk	35.7	-41.8	11.8	.4	-48.38	-25	-23.38	V
12078	-57.21	Pk	39.1	-37.6	11.8	.8	-43.11	-25	-18.11	V
12080	-56.59	Pk	39.1	-37.7	11.8	.8	-42.59	-25	-17.59	H
17006	-58.48	Pk	41.3	-34.1	11.8	1	-38.48	-25	-13.48	H
17006	-56.92	Pk	41.3	-34.1	11.8	1	-36.92	-25	-11.92	V
High Channel, 2680MHz										
1909	-39.65	Pk	31	-49.5	11.8	1.2	-45.15	-25	-20.15	V
4302	-52.52	Pk	33.7	-45.3	11.8	.6	-51.72	-25	-26.72	H
4443	-52.38	Pk	33.8	-45.2	11.8	.7	-51.28	-25	-26.28	V
6768	-54.18	Pk	35.6	-42.3	11.8	.4	-48.68	-25	-23.68	H
10422	-55.87	Pk	37.6	-39.7	11.8	1.6	-44.57	-25	-19.57	V
12388	-56.11	Pk	38.8	-38	11.8	.7	-42.81	-25	-17.81	H

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-31
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode	1Tx, LTE41
Chamber #:	85501

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 2506MHz										
6067	-55	Pk	35.5	-41.9	11.8	.5	-49.1	-25	-24.1	H
6155	-54.74	Pk	35.7	-42.1	11.8	.5	-48.84	-25	-23.84	V
12079	-57.14	Pk	39.1	-37.6	11.8	.8	-43.04	-25	-18.04	V
14099	-54.77	Pk	39.1	-37.7	11.8	.8	-40.77	-25	-15.77	H
16973	-56.9	Pk	41.3	-35.1	11.8	1.1	-37.8	-25	-12.8	V
17008	-57.52	Pk	41.3	-34.4	11.8	1	-37.82	-25	-12.82	H
Mid Channel, 2593MHz										
6072	-54.15	Pk	35.5	-42.3	11.8	.5	-48.65	-25	-23.65	V
6107	-54.24	Pk	35.6	-41.8	11.8	.5	-48.14	-25	-23.14	H
10265	-56.21	Pk	37.6	-39.9	11.8	1.6	-45.11	-25	-20.11	H
12250	-55.07	Pk	38.9	-38.8	11.8	.9	-42.27	-25	-17.27	V
15935	-56.34	Pk	40.5	-36.2	11.8	1.3	-38.94	-25	-13.94	V
17006	-57.72	Pk	41.3	-34.1	11.8	1	-37.72	-25	-12.72	H
High Channel, 2680MHz										
6126	-54.7	Pk	35.6	-42.2	11.8	.6	-48.9	-25	-23.9	V
6323	-55.66	Pk	35.7	-41.5	11.8	.5	-49.16	-25	-24.16	H
12071	-56.83	Pk	39.1	-37.6	11.8	.7	-42.83	-25	-17.83	V
14386	-55.33	Pk	39.2	-37.8	11.8	.8	-41.33	-25	-16.33	H
16940	-57.16	Pk	41.3	-35.6	11.8	1.3	-38.36	-25	-13.36	H
16965	-57.52	Pk	41.3	-35.4	11.8	1.2	-38.62	-25	-13.62	V

9.2.2. ULCA LTE BAND 41

ULCA LTE BAND 41C (QPSK 20.0MHZ+20MHZ BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-04-29
Test Engineer:	19289
Configuration:	EUT Only
Mode	1Tx, ULCA 41C
Chamber #:	4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 2506MHz + 2525MHz										
4.448	-64.61	Pk	33.7	-30	11.8	.3	-48.81	-25	-23.81	V
4.452	-64.8	Pk	33.7	-30.1	11.8	.3	-49.1	-25	-24.1	H
6.744	-66.49	Pk	35.6	-26.2	11.8	.5	-44.79	-25	-19.79	V
6.754	-66.42	Pk	35.6	-26.3	11.8	.5	-44.82	-25	-19.82	H
11.982	-66.68	Pk	38.7	-21.4	11.8	.7	-36.88	-25	-11.88	H
11.995	-66.82	Pk	38.7	-21.8	11.8	.8	-37.32	-25	-12.32	V
Mid Channel, 2583.1MHz + 26029MHz										
4.689	-63.84	Pk	33.8	-30.6	11.8	.7	-48.14	-25	-23.14	V
4.709	-64.95	Pk	33.8	-30.9	11.8	.7	-49.55	-25	-24.55	H
6.739	-66.72	Pk	35.6	-26.2	11.8	.5	-45.02	-25	-20.02	V
6.784	-66.35	Pk	35.6	-27.2	11.8	.5	-45.65	-25	-20.65	H
11.941	-66.56	Pk	38.7	-21.6	11.8	.5	-37.16	-25	-12.16	H
13.602	-64.14	Pk	38.7	-21	11.8	.6	-34.04	-25	-9.04	V
High Channel, 2540.2MHz + 2560MHz										
4.723	-64.79	Pk	33.8	-30.8	11.8	.8	-49.19	-25	-24.19	H
4.737	-63.45	Pk	33.7	-30.6	11.8	.8	-47.75	-25	-22.75	V
6.411	-66.52	Pk	35.7	-27.1	11.8	.5	-45.62	-25	-20.62	V
6.454	-67.64	Pk	35.6	-27	11.8	.5	-46.74	-25	-21.74	H
11.883	-65.6	Pk	38.6	-22.4	11.8	.6	-37	-25	-12	H
13.677	-65.34	Pk	38.6	-20.5	11.8	.8	-34.64	-25	-9.64	V

ULCA LTE BAND 41C (QPSK 20.0MHZ+20MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-04-29
Test Engineer:	19289
Configuration:	EUT Only
Mode	1Tx, ULCA 41C
Chamber #:	4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 2506MHz + 2525MHz										
4.414	-63.77	Pk	33.8	-31.2	11.8	.3	-49.07	-25	-24.07	H
4.458	-64.13	Pk	33.7	-30.4	11.8	.3	-48.73	-25	-23.73	V
9.028	-65.19	Pk	36.2	-23.6	11.8	.9	-39.89	-25	-14.89	H
9.087	-65.74	Pk	36.3	-23.7	11.8	.8	-40.54	-25	-15.54	V
11.844	-66.18	Pk	38.6	-22.1	11.8	.9	-36.98	-25	-11.98	H
11.846	-66.53	Pk	38.6	-22.2	11.8	.9	-37.43	-25	-12.43	V
Mid Channel, 2583.1MHz + 26029MHz										
3.721	-63.69	Pk	33.2	-32.2	11.8	.8	-50.09	-25	-25.09	V
4.142	-63.37	Pk	33.3	-31.4	11.8	.5	-49.17	-25	-24.17	H
9.051	-66.19	Pk	36.2	-23.3	11.8	.9	-40.59	-25	-15.59	V
9.058	-66.21	Pk	36.2	-23.3	11.8	.9	-40.61	-25	-15.61	H
11.677	-65.4	Pk	38.5	-22.1	11.8	1.1	-36.1	-25	-11.1	V
11.942	-65.02	Pk	38.7	-21.7	11.8	.5	-35.72	-25	-10.72	H
High Channel, 2540.2MHz + 2560MHz										
4.781	-64.75	Pk	33.8	-30.8	11.8	.8	-49.15	-25	-24.15	V
4.831	-63.86	Pk	33.9	-30.7	11.8	.8	-48.06	-25	-23.06	H
9.039	-67	Pk	36.2	-23.3	11.8	.9	-41.4	-25	-16.4	V
9.355	-66.67	Pk	36.4	-23.5	11.8	1.3	-40.67	-25	-15.67	H
11.968	-65.94	Pk	38.7	-21.8	11.8	.7	-36.54	-25	-11.54	V
11.988	-66.59	Pk	38.7	-21.5	11.8	.7	-36.89	-25	-11.89	H

9.2.3. 5G NR n41 (FCC)

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-31
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
Chamber #:	85501

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 2546MHz										
4.991	-63.56	Pk	33.9	-31.2	11.8	.8	-48.26	-25	-23.26	H
5.378	-65.13	Pk	34.4	-29.8	11.8	.5	-48.23	-25	-23.23	V
7.158	-66.57	Pk	35.5	-27.3	11.8	.4	-46.17	-25	-21.17	H
9.049	-67.08	Pk	36	-23.3	11.8	.7	-41.88	-25	-16.88	V
13.527	-64.92	Pk	38.6	-20.8	11.8	.6	-34.72	-25	-9.72	H
15.392	-67.53	Pk	39.9	-17.5	11.8	.9	-32.43	-25	-7.43	V
Mid Channel, 2593MHz										
5.159	-65.47	Pk	34.1	-30.1	11.8	.7	-48.97	-25	-23.97	H
5.225	-65.13	Pk	34.3	-30.4	11.8	.4	-49.03	-25	-24.03	V
9.053	-65.69	Pk	36	-23.2	11.8	.7	-40.39	-25	-15.39	H
9.056	-66.89	Pk	36	-23.2	11.8	.7	-41.59	-25	-16.59	V
13.552	-65.04	Pk	38.6	-20.9	11.8	.7	-34.84	-25	-9.84	V
13.642	-64.55	Pk	38.5	-20.8	11.8	.5	-34.55	-25	-9.55	H
High Channel, 2640MHz										
3.883	-64.39	Pk	33.4	-32.2	11.8	.6	-50.79	-25	-25.79	H
3.915	-63.81	Pk	33.4	-31.7	11.8	.5	-49.81	-25	-24.81	V
6.741	-67.58	Pk	35.5	-26.2	11.8	.4	-46.08	-25	-21.08	H
6.749	-67.51	Pk	35.5	-26.2	11.8	.4	-46.01	-25	-21.01	V
10.143	-66.73	Pk	37.3	-24.4	11.8	1.6	-40.43	-25	-15.43	V
10.152	-65.82	Pk	37.3	-24.4	11.8	1.6	-39.52	-25	-14.52	H

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-31
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
Chamber #:	85501

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 2546MHz										
6.701	-66.55	Pk	35.5	-26.7	11.8	.4	-45.55	-25	-20.55	V
6.702	-66.2	Pk	35.5	-26.7	11.8	.4	-45.2	-25	-20.2	H
9.032	-67.31	Pk	36	-23.4	11.8	.8	-42.11	-25	-17.11	V
9.055	-66.62	Pk	36	-23.2	11.8	.7	-41.32	-25	-16.32	H
11.814	-65.29	Pk	38.4	-21.8	11.8	.8	-36.09	-25	-11.09	V
11.944	-66.46	Pk	38.6	-21.7	11.8	.8	-36.96	-25	-11.96	H
Mid Channel, 2593MHz										
3.919	-63.96	Pk	33.4	-31.7	11.8	.4	-50.06	-25	-25.06	V
4.102	-62.55	Pk	33.3	-31.6	11.8	.3	-48.75	-25	-23.75	H
6.729	-66.56	Pk	35.5	-26.4	11.8	.4	-45.26	-25	-20.26	V
6.73	-66.64	Pk	35.5	-26.4	11.8	.4	-45.34	-25	-20.34	H
11.82	-66.75	Pk	38.4	-21.8	11.8	.8	-37.55	-25	-12.55	V
11.827	-65.93	Pk	38.4	-21.9	11.8	.8	-36.83	-25	-11.83	H
High Channel, 2640MHz										
6.41	-66.27	Pk	35.4	-27.2	11.8	.5	-45.77	-25	-20.77	H
6.747	-66.52	Pk	35.5	-26.2	11.8	.4	-45.02	-25	-20.02	V
9.046	-66.61	Pk	36	-23.3	11.8	.6	-41.51	-25	-16.51	V
9.069	-65.84	Pk	36	-23.5	11.8	.6	-40.94	-25	-15.94	H
11.94	-65.8	Pk	38.6	-21.6	11.8	.8	-36.2	-25	-11.2	H
11.983	-66.67	Pk	38.6	-21.4	11.8	.9	-36.77	-25	-11.77	V

10. SETUP PHOTOS

Refer to R16238088-EP1c for setup photos.

END OF REPORT