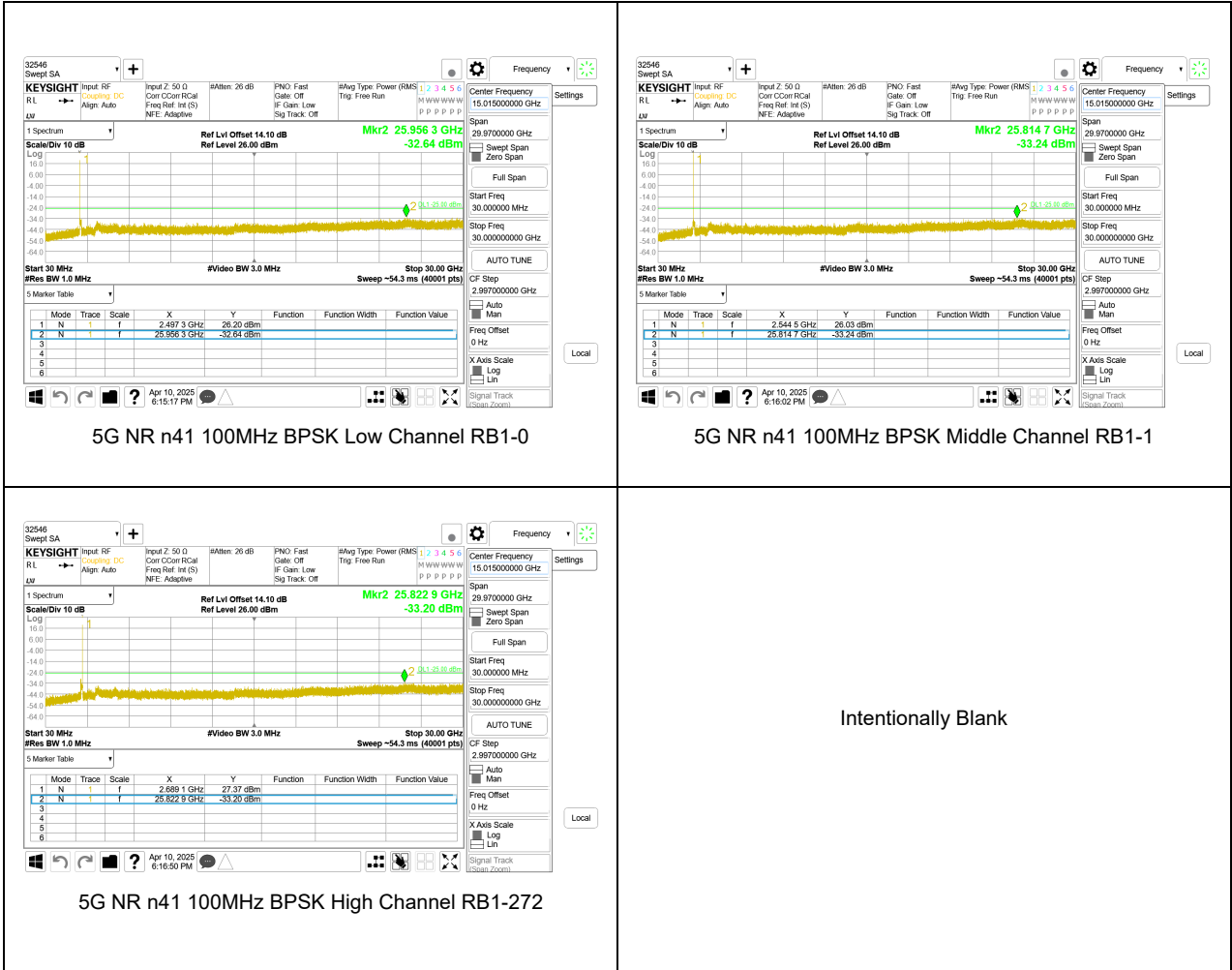
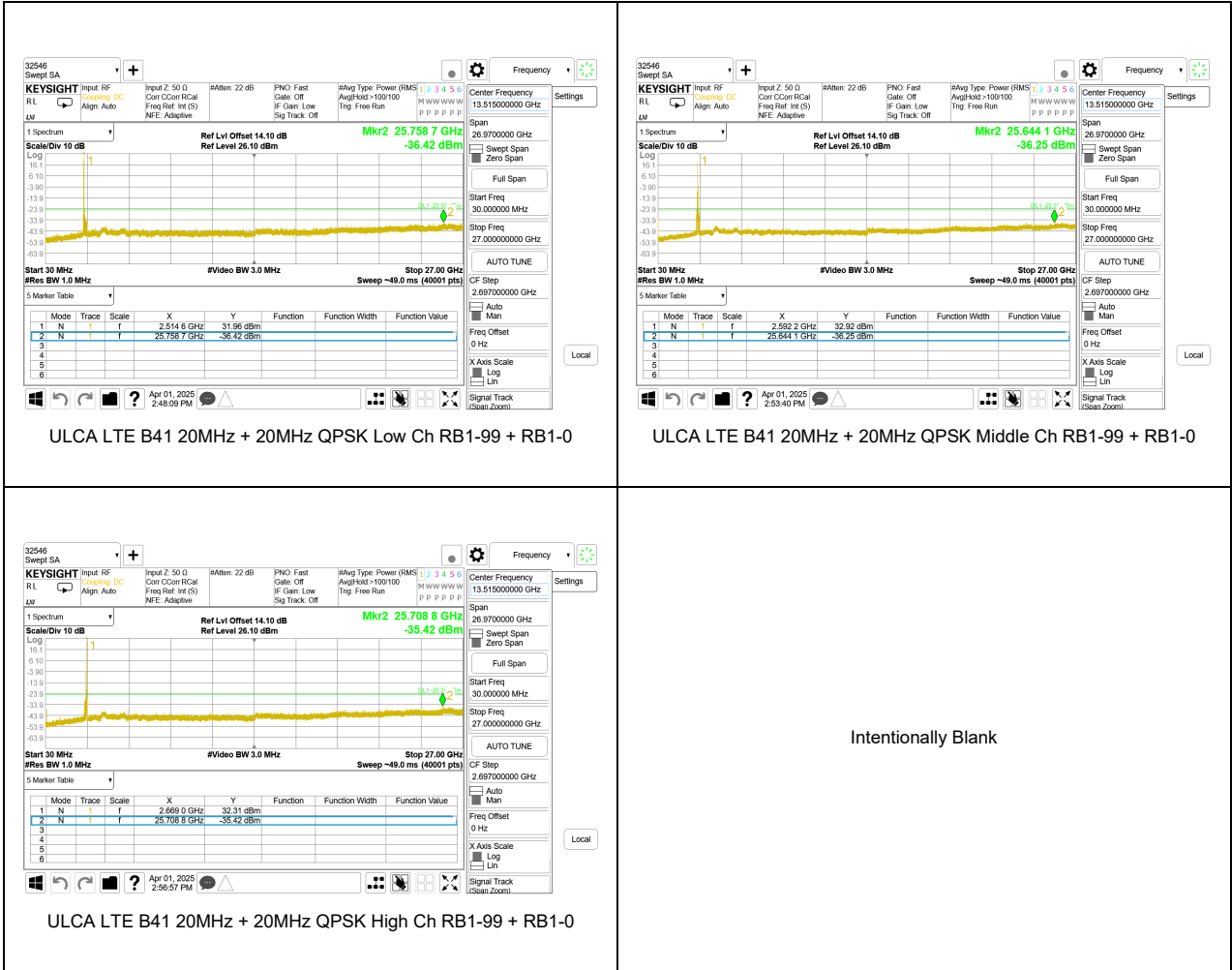


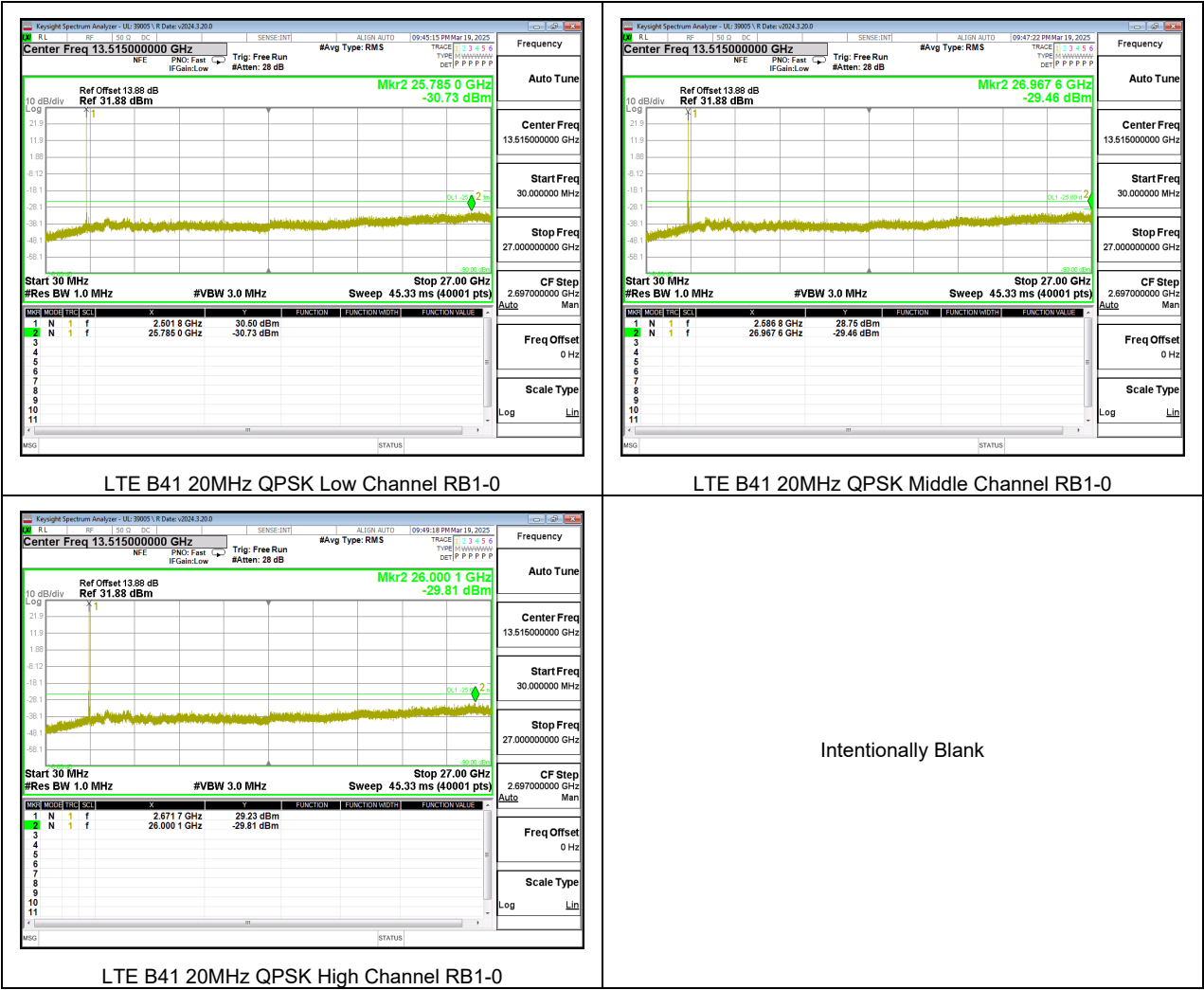
9.3.5. 5G NR n41 (FCC)



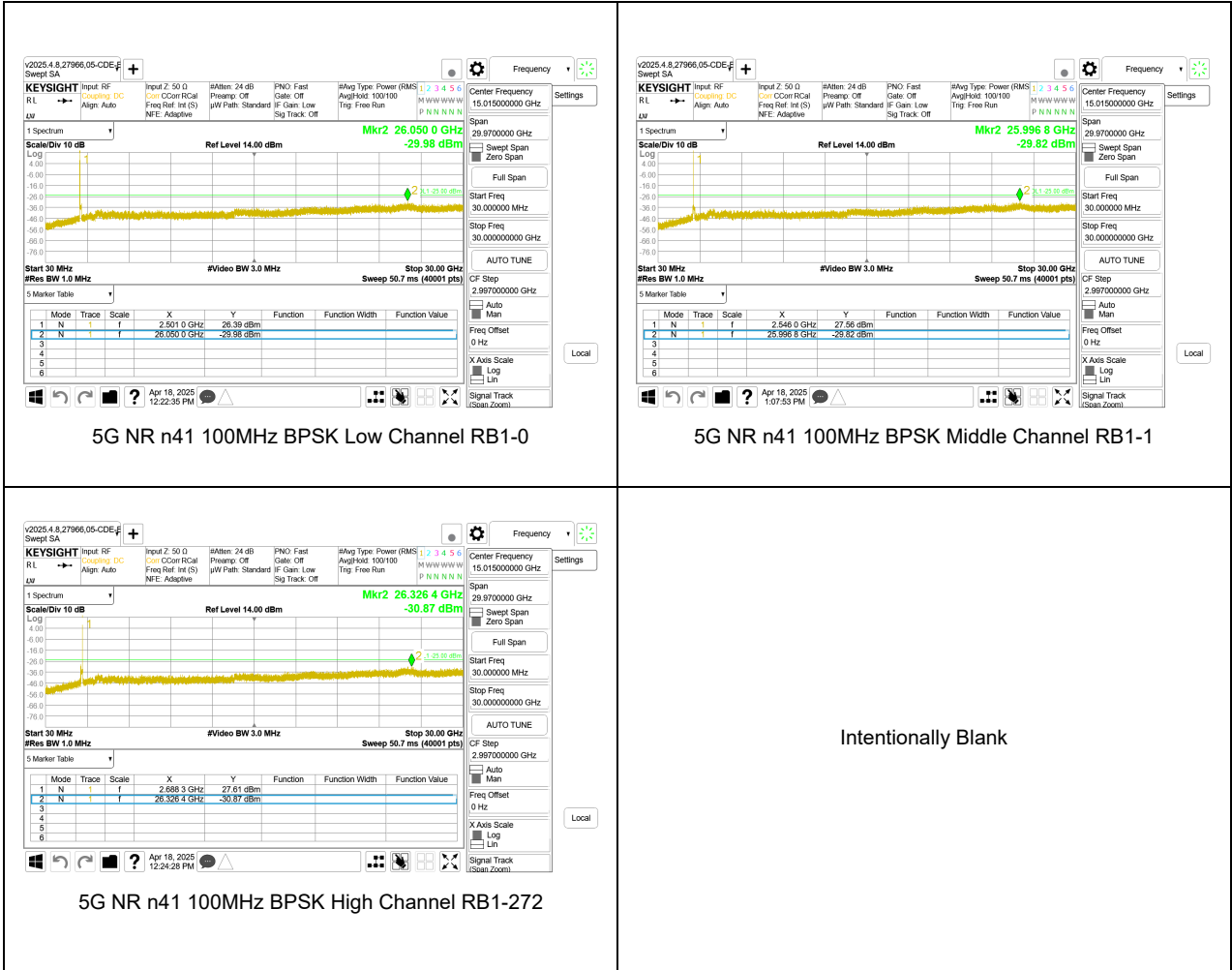
9.3.6. ULCA LTE BAND 41 (FCC)



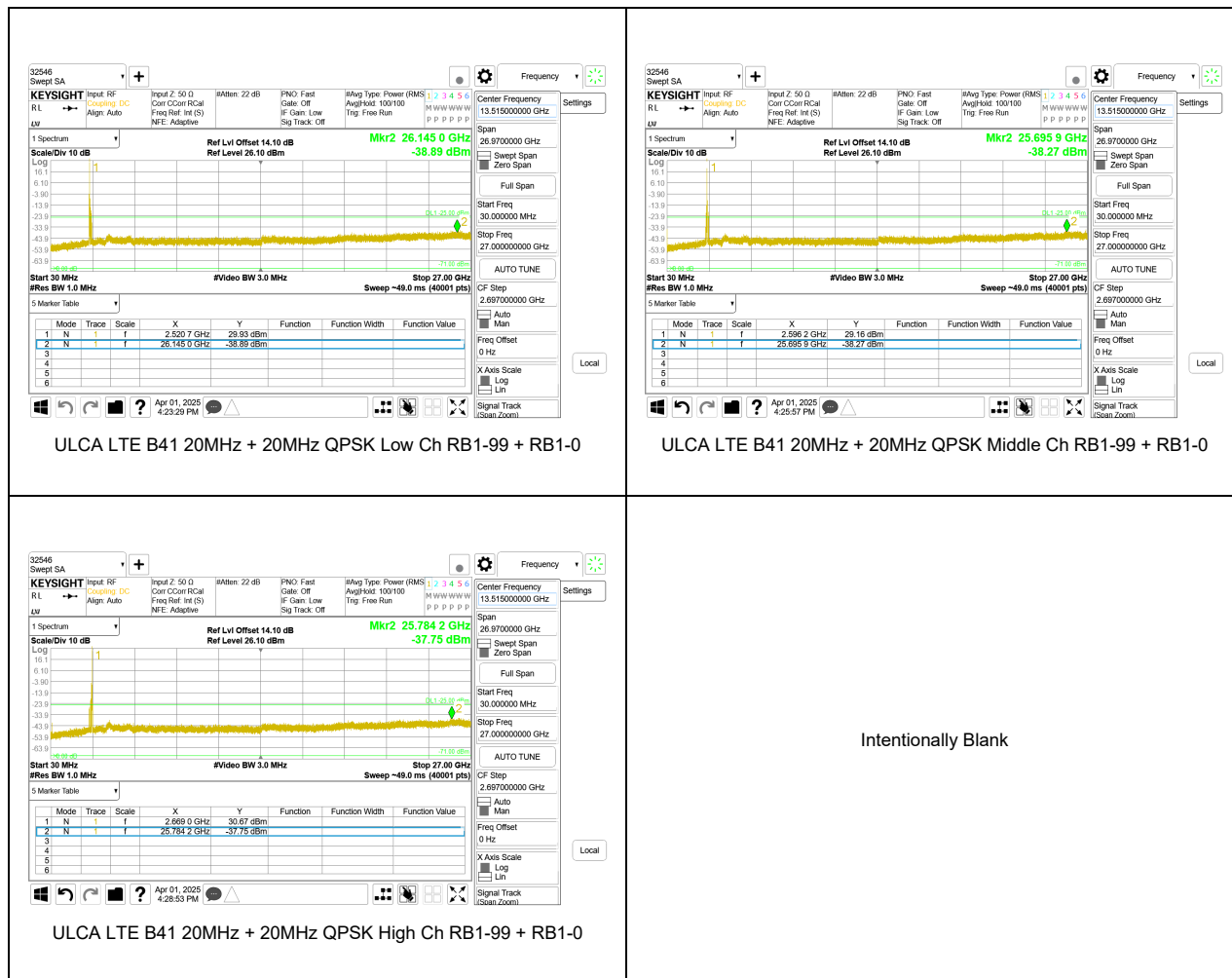
9.3.7. LTE BAND 41 (IC)



9.3.8. 5G NR n41 (IC)



9.3.9. ULCA LTE BAND 41 (IC)



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: 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 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

9.4.1. LTE BAND 7 (QPSK 20MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	5/2/2025
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Band	7	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2500	2570			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	2501.0539	2568.9475			
Extreme (50°C)		2501.0539	2568.9475	8.1	0.003	Yes
Extreme (40°C)		2501.0539	2568.9475	7.8	0.003	Yes
Extreme (30°C)		2501.0539	2568.9475	-8.4	-0.003	Yes
Extreme (10°C)		2501.0539	2568.9475	7.5	0.003	Yes
Extreme (0°C)		2501.0539	2568.9475	-8.1	-0.003	Yes
Extreme (-10°C)		2501.0539	2568.9475	10.5	0.004	Yes
Extreme (-20°C)		2501.0539	2568.9475	-8.9	-0.004	Yes
Extreme (-30°C)		2501.0539	2568.9475	8.7	0.003	Yes
20°C	15%	2501.0539	2568.9475	-11.2	-0.004	Yes
	-15%	2501.0539	2568.9475	10.2	0.004	Yes
	End Point Voltage	2501.0539	2568.9475	-9.8	-0.004	Yes

9.4.2. 5G NR n7 (BPSK 50MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	4/28/2025
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Band	7	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2500	2570			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	2500.8898	2569.0919			
Extreme (50°C)		2500.8898	2569.0919	-3.6	-0.001	Yes
Extreme (40°C)		2500.8898	2569.0919	-2.8	-0.001	Yes
Extreme (30°C)		2500.8898	2569.0919	-3.6	-0.001	Yes
Extreme (10°C)		2500.8898	2569.0919	-3.5	-0.001	Yes
Extreme (0°C)		2500.8898	2569.0919	-3.2	-0.001	Yes
Extreme (-10°C)		2500.8898	2569.0919	-3.4	-0.001	Yes
Extreme (-20°C)		2500.8898	2569.0919	-3.9	-0.002	Yes
Extreme (-30°C)		2500.8898	2569.0919	3.4	0.001	Yes
20°C	15%	2500.8898	2569.0919	-3.2	-0.001	Yes
	-15%	2500.8898	2569.0919	-3.6	-0.001	Yes
	End Point Voltage	2500.8898	2569.0919	-3.1	-0.001	Yes

9.4.3. ULCA LTE BAND 7 (QPSK 20MHz + 20MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	5/5/2025
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Band	7	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2500	2570			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	2501.1430	2568.8585			
Extreme (50°C)		2501.1430	2568.8585	-12.1	-0.005	Yes
Extreme (40°C)		2501.1430	2568.8585	12.0	0.005	Yes
Extreme (30°C)		2501.1430	2568.8585	11.2	0.004	Yes
Extreme (10°C)		2501.1430	2568.8585	10.9	0.004	Yes
Extreme (0°C)		2501.1430	2568.8585	9.7	0.004	Yes
Extreme (-10°C)		2501.1430	2568.8585	-10.3	-0.004	Yes
Extreme (-20°C)		2501.1430	2568.8585	10.8	0.004	Yes
Extreme (-30°C)		2501.1430	2568.8585	13.2	0.005	Yes
20°C	15%	2501.1430	2568.8585	8.5	0.003	Yes
	-15%	2501.1430	2568.8585	9.2	0.004	Yes
	End Point Voltage	2501.1430	2568.8585	-8.5	-0.003	Yes

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

Test Engineer ID:	32546	Test Date:	5/2/2025
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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	2496.5339	2689.6317			
Extreme (50°C)		2496.5339	2689.6317	11.1	0.004	Yes
Extreme (40°C)		2496.5339	2689.6317	8.9	0.003	Yes
Extreme (30°C)		2496.5339	2689.6317	9.3	0.004	Yes
Extreme (10°C)		2496.5339	2689.6317	-7.8	-0.003	Yes
Extreme (0°C)		2496.5339	2689.6317	-8.0	-0.003	Yes
Extreme (-10°C)		2496.5339	2689.6317	8.7	0.003	Yes
Extreme (-20°C)		2496.5339	2689.6317	8.8	0.003	Yes
Extreme (-30°C)		2496.5339	2689.6317	12.2	0.005	Yes
20°C	15%	2496.5339	2689.6317	12.3	0.005	Yes
	-15%	2496.5339	2689.6317	10.2	0.004	Yes
	End Point Voltage	2496.5339	2689.6317	11.7	0.005	Yes

9.4.5. 5G NR n41 (BPSK 100MHz BANDWIDTH, FCC)

Test Engineer ID:	32546	Test Date:	4/28/2025
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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	2496.5339	2689.6317			
Extreme (50°C)		2496.5339	2689.6317	9.1	0.004	Yes
Extreme (40°C)		2496.5339	2689.6317	6.6	0.003	Yes
Extreme (30°C)		2496.5339	2689.6317	-7.2	-0.003	Yes
Extreme (10°C)		2496.5339	2689.6317	-10.9	-0.004	Yes
Extreme (0°C)		2496.5339	2689.6317	7.7	0.003	Yes
Extreme (-10°C)		2496.5339	2689.6317	-6.7	-0.003	Yes
Extreme (-20°C)		2496.5339	2689.6317	5.7	0.002	Yes
Extreme (-30°C)		2496.5339	2689.6317	-6.4	-0.002	Yes
20°C	15%	2496.5339	2689.6317	7.9	0.003	Yes
	-15%	2496.5339	2689.6317	9.5	0.004	Yes
	End Point Voltage	2496.5339	2689.6317	-14.5	-0.006	Yes

9.4.6. ULCA LTE BAND 41 (QPSK 20MHz + 20MHz BANDWIDTH, FCC)

Test Engineer ID:	32546	Test Date:	5/5/2025
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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	2496.5339	2689.6317			
Extreme (50°C)		2496.5339	2689.6317	-10.0	-0.004	Yes
Extreme (40°C)		2496.5339	2689.6317	-11.0	-0.004	Yes
Extreme (30°C)		2496.5339	2689.6317	14.8	0.006	Yes
Extreme (10°C)		2496.5339	2689.6317	-14.2	-0.005	Yes
Extreme (0°C)		2496.5339	2689.6317	-11.6	-0.004	Yes
Extreme (-10°C)		2496.5339	2689.6317	-12.7	-0.005	Yes
Extreme (-20°C)		2496.5339	2689.6317	11.6	0.004	Yes
Extreme (-30°C)		2496.5339	2689.6317	-10.9	-0.004	Yes
20°C	15%	2496.5339	2689.6317	-10.0	-0.004	Yes
	-15%	2496.5339	2689.6317	-8.8	-0.003	Yes
	End Point Voltage	2496.5339	2689.6317	-10.6	-0.004	Yes

9.4.7. LTE B41 (QPSK 20MHz BANDWIDTH, IC)

Test Engineer ID:	32546	Test Date:	5/2/2025
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Band	41	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2500	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	2496.5339	2689.6317			
Extreme (50°C)		2496.5339	2689.6317	8.6	0.003	Yes
Extreme (40°C)		2496.5339	2689.6317	8.6	0.003	Yes
Extreme (30°C)		2496.5339	2689.6317	8.0	0.003	Yes
Extreme (10°C)		2496.5339	2689.6317	-8.0	-0.003	Yes
Extreme (0°C)		2496.5339	2689.6317	-9.0	-0.003	Yes
Extreme (-10°C)		2496.5339	2689.6317	-8.5	-0.003	Yes
Extreme (-20°C)		2496.5339	2689.6317	9.0	0.003	Yes
Extreme (-30°C)		2496.5339	2689.6317	11.5	0.004	Yes
20°C	15%	2496.5339	2689.6317	10.5	0.004	Yes
	-15%	2496.5339	2689.6317	11.3	0.004	Yes
	End Point Voltage	2496.5339	2689.6317	13.0	0.005	Yes

9.4.8. 5G NR n41 (BPSK 100MHz BANDWIDTH, IC)

Test Engineer ID:	32546	Test Date:	4/28/2025
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Band	41	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2500	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	2496.5339	2689.6317			
Extreme (50°C)		2496.5339	2689.6317	6.7	0.003	Yes
Extreme (40°C)		2496.5339	2689.6317	-6.8	-0.003	Yes
Extreme (30°C)		2496.5339	2689.6317	9.0	0.003	Yes
Extreme (10°C)		2496.5339	2689.6317	-13.5	-0.005	Yes
Extreme (0°C)		2496.5339	2689.6317	8.0	0.003	Yes
Extreme (-10°C)		2496.5339	2689.6317	5.9	0.002	Yes
Extreme (-20°C)		2496.5339	2689.6317	7.0	0.003	Yes
Extreme (-30°C)		2496.5339	2689.6317	-14.0	-0.005	Yes
20°C	15%	2496.5339	2689.6317	-18.0	-0.007	Yes
	-15%	2496.5339	2689.6317	-13.1	-0.005	Yes
	End Point Voltage	2496.5339	2689.6317	-18.3	-0.007	Yes

9.4.9. ULCA LTE BAND 41 (QPSK 20MHz + 20MHz BANDWIDTH, IC)

Test Engineer ID:	32546	Test Date:	5/5/2025
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Band	41	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2500	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	2496.5339	2689.6317			
Extreme (50°C)		2496.5339	2689.6317	-10.4	-0.004	Yes
Extreme (40°C)		2496.5339	2689.6317	14.0	0.005	Yes
Extreme (30°C)		2496.5339	2689.6317	11.9	0.005	Yes
Extreme (10°C)		2496.5339	2689.6317	16.4	0.006	Yes
Extreme (0°C)		2496.5339	2689.6317	-14.9	-0.006	Yes
Extreme (-10°C)		2496.5339	2689.6317	-11.3	-0.004	Yes
Extreme (-20°C)		2496.5339	2689.6317	-12.3	-0.005	Yes
Extreme (-30°C)		2496.5339	2689.6317	-11.0	-0.004	Yes
20°C	15%	2496.5339	2689.6317	-9.5	-0.004	Yes
	-15%	2496.5339	2689.6317	-8.0	-0.003	Yes
	End Point Voltage	2496.5339	2689.6317	-10.7	-0.004	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

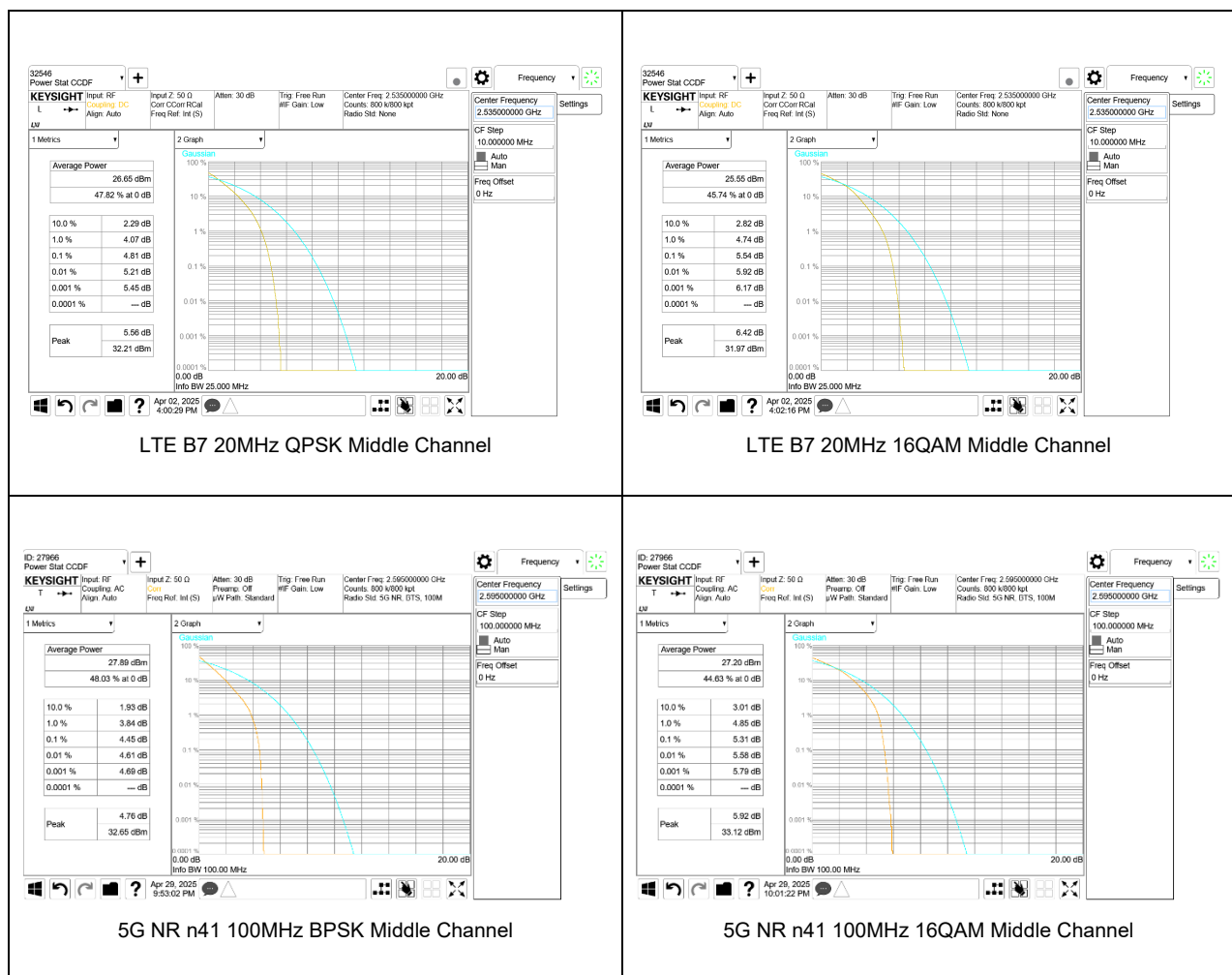
ISED: RSS199§5.5

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 6.5. 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 7

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 7	5MHz	2535.0	25	0	QPSK	31.86	26.81	5.05
					16QAM	31.60	25.68	5.92
	10MHz		50	0	QPSK	31.81	26.86	4.95
					16QAM	31.72	25.76	5.96
	15MHz		75	0	QPSK	32.13	26.61	5.52
					16QAM	31.69	25.51	6.18
	20MHz		100	0	QPSK	32.21	26.65	5.56
					16QAM	31.97	25.55	6.42
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 n7

Test Engineer ID:	50822	Test Date:	2025-04-16
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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 n7	5MHz	2535.0	25	0	BPSK	30.83	25.92	4.91
					16QAM	31.09	24.60	6.49
	10MHz		50	0	BPSK	31.16	26.32	4.84
					16QAM	31.53	24.80	6.73
	15MHz		75	0	BPSK	30.56	26.08	4.48
					16QAM	30.81	24.57	6.24
	20MHz		100	0	BPSK	30.52	25.99	4.53
					16QAM	31.16	24.72	6.44
	25MHz		128	0	BPSK	32.22	27.25	4.97
					16QAM	32.51	26.05	6.46
	30MHz		160	0	BPSK	31.73	26.59	5.14
					16QAM	31.43	24.89	6.54
	35MHz		180	0	BPSK	31.59	26.52	5.07
					16QAM	31.43	25.21	6.22
	40MHz		216	0	BPSK	32.02	26.57	5.45
					16QAM	31.62	24.76	6.86
	50MHz		270	0	BPSK	32.04	26.47	5.57
					16QAM	31.94	24.83	7.11
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.3. ULCA LTE BAND 7

Test Engineer ID:	25780	Test Date:	2025-05-06
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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 7	10MHz / 20MHz	2525.6	2540.0	QPSK	31.15	24.63	6.52
				16QAM	31.22	23.53	7.69
	20MHz / 10MHz	2530.1	2544.5	QPSK	31.40	24.62	6.78
				16QAM	31.21	23.55	7.66
	15 MHz / 15MHz	2527.5	2542.5	QPSK	31.26	24.60	6.66
				16QAM	31.34	23.60	7.74
	15MHz / 20MHz	2525.3	2542.4	QPSK	31.19	24.65	6.54
				16QAM	31.19	23.60	7.59
	20MHz / 15MHz	2527.6	2544.7	QPSK	31.38	24.66	6.72
				16QAM	31.16	23.60	7.56
	20MHz / 20MHz	2525.1	2544.9	QPSK	31.80	25.55	6.25
				16QAM	31.82	24.60	7.22
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 41 (FCC)

Test Engineer ID:	25780	Test Date:	2025-05-06
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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 41	5MHz	2593.0	25	0	QPSK	35.14	29.86	5.28
					16QAM	34.90	28.84	6.06
	10MHz		50	0	QPSK	35.16	30.05	5.11
					16QAM	34.94	29.00	5.94
	15MHz		75	0	QPSK	35.03	29.79	5.24
					16QAM	34.85	28.74	6.11
	20MHz		100	0	QPSK	35.03	29.81	5.22
					16QAM	34.87	28.73	6.14
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.5. 5G NR n41 (FCC)

Test Engineer ID:	50822	Test Date:	2025-04-11
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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	2593.0	24	0	BPSK	32.38	28.08	4.30
					16QAM	32.42	26.69	5.73
	15MHz		36	0	BPSK	32.51	28.02	4.49
					16QAM	32.85	27.12	5.73
	20MHz		50	0	BPSK	32.88	28.28	4.60
					16QAM	33.27	27.55	5.72
	25MHz		64	0	BPSK	33.16	28.21	4.95
					16QAM	33.60	27.32	6.28
	30MHz		75	0	BPSK	32.77	28.11	4.66
					16QAM	33.40	27.17	6.23
	35MHz		90	0	BPSK	32.89	28.07	4.82
					16QAM	33.65	27.32	6.33
	40MHz		100	0	BPSK	32.78	27.82	4.96
					16QAM	33.39	27.09	6.30
	45MHz		108	0	BPSK	32.43	27.73	4.70
					16QAM	33.21	26.96	6.25
	50MHz		128	0	BPSK	32.33	27.63	4.70
					16QAM	33.11	26.98	6.13
	60MHz		162	0	BPSK	32.00	27.73	4.27
					16QAM	32.58	26.78	5.80
	70MHz		180	0	BPSK	32.18	27.70	4.48
					16QAM	32.80	26.85	5.95
	80MHz		216	0	BPSK	32.62	27.73	4.89
					16QAM	33.20	26.89	6.31
	90MHz		243	0	BPSK	32.66	28.17	4.49
					16QAM	33.29	27.47	5.82
	100MHz		270	0	BPSK	32.74	28.07	4.67
					16QAM	33.14	27.29	5.85
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.6. ULCA LTE BAND 41 (FCC)

Test Engineer ID:	25780	Test Date:	2025-05-08
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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)	5MHz / 20MHz	2583.8	2595.5	QPSK	34.21	27.90	6.31
				16QAM	34.16	26.78	7.38
	20MHz / 5MHz	2590.5	2602.2	QPSK	36.21	29.09	7.12
				16QAM	36.02	28.05	7.97
	10MHz / 20MHz	2583.6	2598.0	QPSK	35.79	29.41	6.38
				16QAM	35.82	28.36	7.46
	20MHz / 10MHz	2588.1	2602.5	QPSK	36.08	29.44	6.64
				16QAM	35.79	28.39	7.40
	15MHz / 15MHz	2585.5	2600.5	QPSK	35.97	29.49	6.48
				16QAM	35.90	28.45	7.45
	15MHz / 20MHz	2583.3	2600.4	QPSK	35.98	29.43	6.55
				16QAM	35.81	28.38	7.43
	20MHz / 15MHz	2585.6	2602.7	QPSK	35.92	29.46	6.46
				16QAM	35.86	28.41	7.45
	20MHz / 20MHz	2583.1	2602.9	QPSK	36.48	30.34	6.14
				16QAM	36.39	29.45	6.94
Duty Cycle Correction Factor (dB) =			0.00				
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

9.5.7. LTE BAND 41 (IC)

Test Engineer ID:	32061	Test Date:	2025-04-22
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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 41 (IC)	5MHz	2595.0	25	0	QPSK	35.56	30.07	5.49
					16QAM	35.19	28.96	6.23
	10MHz		50	0	QPSK	35.43	30.05	5.38
					16QAM	35.14	29.02	6.12
	15MHz		75	0	QPSK	35.40	29.86	5.54
					16QAM	35.53	29.14	6.39
	20MHz		100	0	QPSK	35.90	30.21	5.69
					16QAM	35.61	29.18	6.43
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.8. 5G NR n41 (IC)

Test Engineer ID:	50822	Test Date:	2025-04-11
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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	32.54	28.51	4.03
					16QAM	33.00	27.73	5.27
	15MHz		36	0	BPSK	32.54	28.34	4.20
					16QAM	33.03	27.57	5.46
	20MHz		50	0	BPSK	32.75	28.34	4.41
					16QAM	33.39	27.52	5.87
	25MHz		64	0	BPSK	33.11	28.27	4.84
					16QAM	33.54	27.43	6.11
	30MHz		75	0	BPSK	32.91	28.07	4.84
					16QAM	33.62	27.40	6.22
	35MHz		90	0	BPSK	32.94	28.11	4.83
					16QAM	33.50	27.26	6.24
	40MHz		100	0	BPSK	33.08	28.14	4.94
					16QAM	33.57	27.32	6.25
	45MHz		108	0	BPSK	33.02	27.88	5.14
					16QAM	33.20	27.08	6.12
	50MHz		128	0	BPSK	32.58	27.82	4.76
					16QAM	33.19	27.14	6.05
	60MHz		162	0	BPSK	32.40	27.86	4.54
					16QAM	33.02	27.01	6.01
	70MHz		180	0	BPSK	32.36	27.68	4.68
					16QAM	33.02	26.97	6.05
	80MHz		216	0	BPSK	32.77	27.86	4.91
					16QAM	33.50	26.96	6.54
	90MHz		243	0	BPSK	32.51	27.88	4.63
					16QAM	33.12	27.26	5.86
	100MHz		270	0	BPSK	32.65	27.89	4.76
					16QAM	33.12	27.20	5.92
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.9. ULCA LTE BAND 41 (IC)

Test Engineer ID:	25780	Test Date:	2025-05-08
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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 (IC)	5MHz / 20MHz	2585.8	2597.5	QPSK	34.29	27.89	6.40
				16QAM	34.21	26.80	7.41
	20MHz / 5MHz	2592.5	2604.2	QPSK	36.45	29.01	7.44
				16QAM	36.05	27.99	8.06
	10MHz / 20MHz	2585.6	2600.0	QPSK	35.91	29.47	6.44
				16QAM	35.83	28.36	7.47
	20MHz / 10MHz	2590.1	2604.5	QPSK	35.93	29.43	6.50
				16QAM	35.87	28.37	7.50
	15MHz / 15MHz	2587.5	2602.5	QPSK	36.01	29.51	6.50
				16QAM	35.93	28.45	7.48
	15MHz / 20MHz	2585.3	2602.4	QPSK	35.94	29.49	6.45
				16QAM	35.96	28.44	7.52
	20MHz / 15MHz	2587.6	2604.7	QPSK	36.04	29.54	6.50
				16QAM	36.01	28.44	7.57
	20MHz / 20MHz	2585.1	2604.9	QPSK	36.52	30.42	6.10
				16QAM	36.52	29.51	7.01
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

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

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.

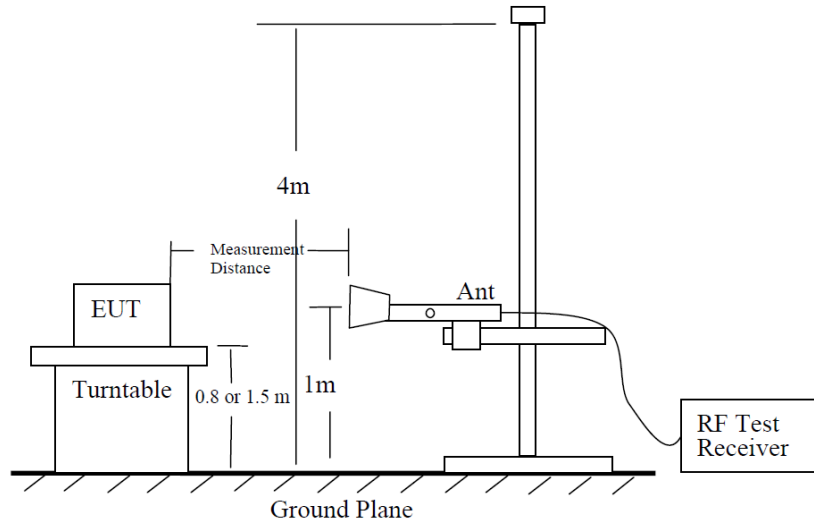


Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

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.

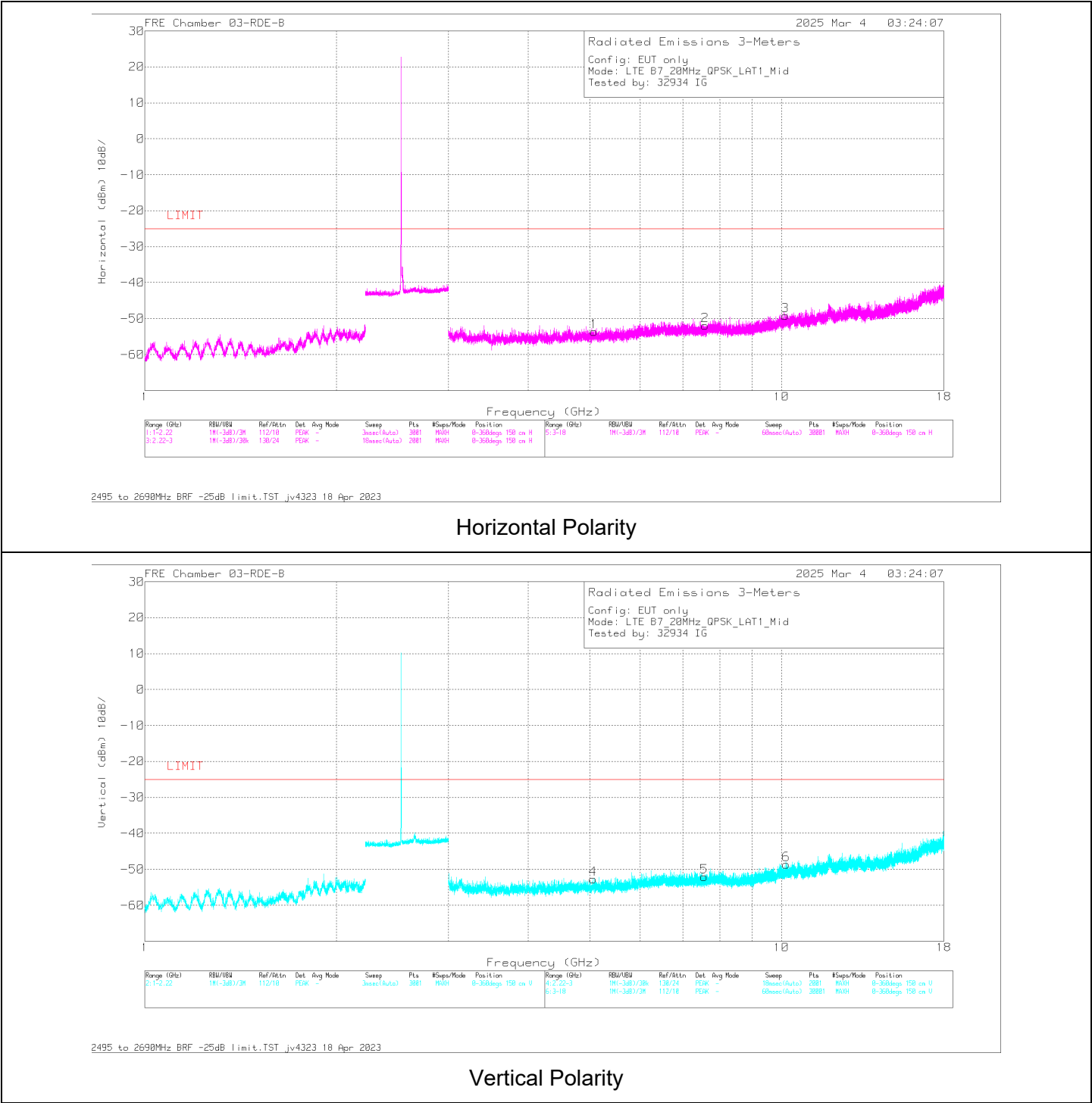
So, from d)

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

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
5.061500	57.89	Pk	33.9	-95.2	-49.30	-52.71	-25	-27.71	V
5.080500	57.14	Pk	33.9	-95.2	-49.50	-53.66	-25	-28.66	H
7.566500	55.47	Pk	35.7	-95.2	-48.00	-52.03	-25	-27.03	V
7.593000	55.65	Pk	35.7	-95.2	-48.10	-51.95	-25	-26.95	H
10.148000	56.78	Pk	37.4	-95.2	-48.20	-49.22	-25	-24.22	H
10.185500	57.04	Pk	37.4	-95.2	-47.90	-48.66	-25	-23.66	V

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 7

LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-03-04
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B7 QPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.020500	57.97	Pk	34.0	-95.2	-49.35	-52.58	-25	-27.58	V
5.031000	57.27	Pk	34.0	-95.2	-49.40	-53.33	-25	-28.33	H
7.536000	55.86	Pk	35.7	-95.2	-47.90	-51.54	-25	-26.54	H
7.543500	55.36	Pk	35.7	-95.2	-47.90	-52.04	-25	-27.04	V
10.001000	56.97	Pk	37.2	-95.2	-48.00	-49.03	-25	-24.03	V
10.030500	56.65	Pk	37.2	-95.2	-48.00	-49.35	-25	-24.35	H
Mid Channel, 2535MHz									
5.061500	57.89	Pk	33.9	-95.2	-49.30	-52.71	-25	-27.71	V
5.080500	57.14	Pk	33.9	-95.2	-49.50	-53.66	-25	-28.66	H
7.566500	55.47	Pk	35.7	-95.2	-48.00	-52.03	-25	-27.03	V
7.593000	55.65	Pk	35.7	-95.2	-48.10	-51.95	-25	-26.95	H
10.148000	56.78	Pk	37.4	-95.2	-48.20	-49.22	-25	-24.22	H
10.185500	57.04	Pk	37.4	-95.2	-47.90	-48.66	-25	-23.66	V
High Channel, 2560MHz									
5.000500	58.27	Pk	34.0	-95.2	-49.20	-52.13	-25	-27.13	V
5.038000	56.68	Pk	34.0	-95.2	-49.20	-53.72	-25	-28.72	H
7.681500	55.09	Pk	35.8	-95.2	-47.40	-51.71	-25	-26.71	H
7.704500	55.23	Pk	35.8	-95.2	-47.30	-51.47	-25	-26.47	V
10.259000	55.38	Pk	37.4	-95.2	-47.70	-50.12	-25	-25.12	H
10.272000	55.83	Pk	37.4	-95.2	-47.60	-49.57	-25	-24.57	V

LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-05
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B7 QPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.020500	54.67	Pk	34.0	-95.2	-49.35	-55.88	-25	-30.88	H
5.020500	56.04	Pk	34.0	-95.2	-49.35	-54.51	-25	-29.51	V
7.530000	53.9	Pk	35.7	-95.2	-47.90	-53.5	-25	-28.50	H
7.530000	54.35	Pk	35.7	-95.2	-47.90	-53.05	-25	-28.05	V
10.040500	53.43	Pk	37.3	-95.2	-47.95	-52.42	-25	-27.42	H
10.040500	54.90	Pk	37.3	-95.2	-47.95	-50.95	-25	-25.95	V
Mid Channel, 2535MHz									
5.020500	55.86	Pk	34.0	-95.2	-49.35	-54.69	-25	-29.69	H
5.020500	56.39	Pk	34.0	-95.2	-49.35	-54.16	-25	-29.16	V
7.530500	53.44	Pk	35.7	-95.2	-47.90	-53.96	-25	-28.96	H
7.530500	53.59	Pk	35.7	-95.2	-47.90	-53.81	-25	-28.81	V
10.041000	53.79	Pk	37.3	-95.2	-48.00	-52.11	-25	-27.11	H
10.041000	53.68	Pk	37.3	-95.2	-48.00	-52.22	-25	-27.22	V
High Channel, 2560MHz									
5.120500	54.46	Pk	34.1	-95.2	-49.45	-56.09	-25	-31.09	H
5.120500	55.78	Pk	34.1	-95.2	-49.45	-54.77	-25	-29.77	V
7.680500	53.69	Pk	35.8	-95.2	-47.40	-53.11	-25	-28.11	H
7.680500	52.91	Pk	35.8	-95.2	-47.40	-53.89	-25	-28.89	V
10.239750	54.60	Pk	37.4	-95.2	-47.68	-50.88	-25	-25.88	H
10.240000	54.38	Pk	37.4	-95.2	-47.70	-51.12	-25	-26.12	V

LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-13
Test Engineer:	25369
Configuration:	EUT Only
Mode	LTE B7 QPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.014500	55.12	Pk	34.0	-95.2	-47.80	-53.88	-25	-28.88	H
5.014500	53.82	Pk	34.0	-95.2	-47.80	-55.18	-25	-30.18	V
7.531500	51.29	Pk	35.9	-95.2	-45.90	-53.91	-25	-28.91	H
7.530000	52.47	Pk	35.9	-95.2	-46.00	-52.83	-25	-27.83	V
10.040000	52.57	Pk	37.2	-95.2	-46.10	-51.53	-25	-26.53	H
10.044000	52.95	Pk	37.2	-95.2	-46.00	-51.05	-25	-26.05	V
Mid Channel, 2535MHz									
5.051000	55.87	Pk	34.0	-95.2	-47.90	-53.23	-25	-28.23	H
7.626500	54.34	Pk	35.9	-95.2	-46.30	-51.26	-25	-26.26	H
5.084000	56.51	Pk	34.1	-95.2	-48.10	-52.69	-25	-27.69	V
7.610500	54.67	Pk	35.9	-95.2	-46.15	-50.78	-25	-25.78	V
10.122500	55.85	Pk	37.3	-95.2	-45.85	-47.90	-25	-22.90	V
10.129000	54.78	Pk	37.3	-95.2	-45.60	-48.72	-25	-23.72	H
High Channel, 2560MHz									
5.122000	55.71	Pk	34.2	-95.2	-48.00	-53.29	-25	-28.29	H
7.698000	53.66	Pk	35.9	-95.2	-45.70	-51.34	-25	-26.34	H
5.132000	56.84	Pk	34.2	-95.2	-48.10	-52.26	-25	-27.26	V
7.662000	54.14	Pk	35.9	-95.2	-46.00	-51.16	-25	-26.16	V
10.220000	55.34	Pk	37.4	-95.2	-44.70	-47.16	-25	-22.16	V
10.261500	54.09	Pk	37.4	-95.2	-44.80	-48.51	-25	-23.51	H

LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-03-21
Test Engineer:	32703
Configuration:	EUT Only
Mode	LTE B7 QPSK 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.000500	55.50	Pk	34.0	-95.2	-49.2	-54.90	-25	-29.90	H
7.503036	63.38	Pk	35.7	-95.2	-47.8	-43.92	-25	-18.92	H
5.000500	54.34	Pk	34.0	-95.2	-49.2	-56.06	-25	-31.06	V
7.503435	61.19	Pk	35.7	-95.2	-47.8	-46.11	-25	-21.11	V
9.730167	58.71	Pk	36.8	-95.2	-47.9	-47.59	-25	-22.59	H
9.731648	59.14	Pk	36.8	-95.2	-47.84	-47.10	-25	-22.1	V
Mid Channel, 2535MHz									
3.653000	54.27	Pk	32.8	-95.2	-47.4	-55.53	-25	-30.53	H
7.578003	64.44	Pk	35.7	-95.2	-48.1	-43.16	-25	-18.16	H
3.652464	57.61	Pk	32.8	-95.2	-47.4	-52.19	-25	-27.19	V
7.578104	61.39	Pk	35.7	-95.2	-48.1	-46.21	-25	-21.21	V
1.904021	58.38	Pk	31.5	-95.2	-49.2	-54.52	-25	-29.52	H
1.902085	60.80	Pk	31.5	-95.2	-49.2	-52.10	-25	-27.10	V
High Channel, 2560MHz									
5.100500	54.73	Pk	34	-95.2	-49.45	-55.92	-25	-30.92	H
7.653059	62.39	Pk	35.8	-95.2	-47.80	-44.81	-25	-19.81	H
5.100500	54.76	Pk	34	-95.2	-49.45	-55.89	-25	-30.89	V
7.653563	60.38	Pk	35.8	-95.2	-47.80	-46.82	-25	-21.82	V
10.200500	54.95	Pk	37.4	-95.2	-47.70	-50.55	-25	-25.55	H
10.200500	54.88	Pk	37.4	-95.2	-47.70	-50.62	-25	-25.62	V

10.1.2. 5G NR n7

5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-05-09
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n7 BPSK 50MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2525MHz									
5.006500	58.06	Pk	34.0	-95.2	-49.15	-52.29	-25	-27.29	V
5.048500	57.80	Pk	33.9	-95.2	-49.30	-52.80	-25	-27.80	H
7.502891	66.41	Pk	35.7	-95.2	-47.79	-40.88	-25	-15.88	V
7.503000	56.96	Pk	35.7	-95.2	-47.80	-50.34	-25	-25.34	H
10.120000	56.55	Pk	37.4	-95.2	-48.10	-49.35	-25	-24.35	H
10.135500	57.08	Pk	37.4	-95.2	-48.05	-48.77	-25	-23.77	V
Mid Channel, 2535MHz									
5.060500	57.36	Pk	33.9	-95.2	-49.40	-53.34	-25	-28.34	V
5.079000	57.94	Pk	33.9	-95.2	-49.60	-52.96	-25	-27.96	H
7.532905	62.57	Pk	35.7	-95.2	-47.90	-44.83	-25	-19.83	H
7.532929	66.33	Pk	35.7	-95.2	-47.90	-41.07	-25	-16.07	V
10.157500	57.86	Pk	37.4	-95.2	-48.00	-47.94	-25	-22.94	H
10.168500	57.54	Pk	37.4	-95.2	-47.85	-48.11	-25	-23.11	V
High Channel, 2545MHz									
5.182574	58.25	Pk	34.0	-95.2	-49.06	-52.01	-25	-27.01	H
5.188500	57.65	Pk	34.0	-95.2	-49.05	-52.60	-25	-27.60	V
7.563000	56.57	Pk	35.7	-95.2	-48.00	-50.93	-25	-25.93	H
7.563021	64.74	Pk	35.7	-95.2	-48.00	-42.76	-25	-17.76	V
10.154500	57.79	Pk	37.4	-95.2	-47.90	-47.91	-25	-22.91	V
10.181500	56.8	Pk	37.4	-95.2	-47.90	-48.90	-25	-23.90	H

5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-05-09
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n7 BPSK 50MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2525MHz									
5.019000	57.76	Pk	34.0	-95.2	-49.30	-52.74	-25	-27.74	V
5.042000	57.21	Pk	34.0	-95.2	-49.40	-53.39	-25	-28.39	H
7.544000	55.36	Pk	35.7	-95.2	-47.90	-52.04	-25	-27.04	V
7.586500	56.12	Pk	35.7	-95.2	-48.10	-51.48	-25	-26.48	H
10.101000	56.94	Pk	37.3	-95.2	-48.20	-49.16	-25	-24.16	H
10.121500	56.87	Pk	37.4	-95.2	-48.05	-48.98	-25	-23.98	V
Mid Channel, 2535MHz									
5.102500	58.24	Pk	34.0	-95.2	-49.45	-52.41	-25	-27.41	V
5.110500	59.04	Pk	34.0	-95.2	-49.45	-51.61	-25	-26.61	H
7.602500	55.40	Pk	35.7	-95.2	-48.20	-52.30	-25	-27.30	V
7.624000	55.41	Pk	35.7	-95.2	-48.10	-52.19	-25	-27.19	H
10.140500	56.75	Pk	37.4	-95.2	-48.00	-49.05	-25	-24.05	V
10.142000	56.55	Pk	37.4	-95.2	-48.00	-49.25	-25	-24.25	H
High Channel, 2545MHz									
5.056500	57.76	Pk	33.9	-95.2	-49.35	-52.89	-25	-27.89	V
5.097000	58.17	Pk	34.0	-95.2	-49.50	-52.53	-25	-27.53	H
7.642000	55.05	Pk	35.8	-95.2	-47.90	-52.25	-25	-27.25	H
7.647000	55.07	Pk	35.8	-95.2	-47.80	-52.13	-25	-27.13	V
10.173000	56.79	Pk	37.4	-95.2	-48.00	-49.01	-25	-24.01	H
10.187500	56.93	Pk	37.4	-95.2	-47.95	-48.82	-25	-23.82	V

5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-05-09
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n7 BPSK 50MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2525MHz									
5.032000	56.93	Pk	34	-95.2	-49.30	-53.57	-25	-28.57	V
5.048500	57.83	Pk	33.9	-95.2	-49.30	-52.77	-25	-27.77	H
7.572000	55.86	Pk	35.7	-95.2	-48.00	-51.64	-25	-26.64	H
7.601500	55.63	Pk	35.7	-95.2	-48.15	-52.02	-25	-27.02	V
10.406500	57.86	Pk	37.5	-95.2	-47.30	-47.14	-25	-22.14	V
10.447000	57.43	Pk	37.5	-95.2	-46.70	-46.97	-25	-21.97	H
Mid Channel, 2535MHz									
5.066000	59.16	Pk	33.9	-95.2	-49.40	-51.54	-25	-26.54	V
5.075000	57.07	Pk	33.9	-95.2	-49.40	-53.63	-25	-28.63	H
7.588500	55.56	Pk	35.7	-95.2	-48.10	-52.04	-25	-27.04	V
7.594500	57.48	Pk	35.7	-95.2	-48.10	-50.12	-25	-25.12	H
10.113000	57.40	Pk	37.4	-95.2	-48.10	-48.50	-25	-23.50	V
10.135500	57.18	Pk	37.4	-95.2	-48.05	-48.67	-25	-23.67	H
High Channel, 2545MHz									
5.068000	56.92	Pk	33.9	-95.2	-49.30	-53.68	-25	-28.68	V
5.107500	57.66	Pk	34.0	-95.2	-49.45	-52.99	-25	-27.99	H
7.415000	58.17	Pk	35.6	-95.2	-48.30	-49.73	-25	-24.73	H
7.478500	56.27	Pk	35.7	-95.2	-47.90	-51.13	-25	-26.13	V
10.175000	57.27	Pk	37.4	-95.2	-48.10	-48.63	-25	-23.63	H
10.186500	57.12	Pk	37.4	-95.2	-47.90	-48.58	-25	-23.58	V

5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-05-09
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n7 BPSK 50MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2525MHz									
5.077000	58.53	Pk	33.9	-95.2	-49.60	-52.37	-25	-27.37	V
5.128500	58.52	Pk	34.1	-95.2	-49.30	-51.88	-25	-26.88	H
7.550500	55.66	Pk	35.7	-95.2	-47.90	-51.74	-25	-26.74	V
7.567500	55.46	Pk	35.7	-95.2	-48.05	-52.09	-25	-27.09	H
10.115500	57.33	Pk	37.4	-95.2	-48.20	-48.67	-25	-23.67	H
10.227500	57.13	Pk	37.4	-95.2	-47.50	-48.17	-25	-23.17	V
Mid Channel, 2535MHz									
5.042000	57.91	Pk	34	-95.2	-49.40	-52.69	-25	-27.69	V
5.064500	58.05	Pk	33.9	-95.2	-49.35	-52.6	-25	-27.6	H
7.591500	56.16	Pk	35.7	-95.2	-48.20	-51.54	-25	-26.54	V
7.613500	56.10	Pk	35.7	-95.2	-48.10	-51.50	-25	-26.50	H
10.127000	56.37	Pk	37.4	-95.2	-48.00	-49.43	-25	-24.43	V
10.138000	57.57	Pk	37.4	-95.2	-48.00	-48.23	-25	-23.23	H
High Channel, 2545MHz									
5.088000	56.73	Pk	34.0	-95.2	-49.50	-53.97	-25	-28.97	H
5.088000	56.73	Pk	34.0	-95.2	-49.50	-53.97	-25	-28.97	H
7.653500	55.33	Pk	35.8	-95.2	-47.80	-51.87	-25	-26.87	H
7.667500	56.14	Pk	35.8	-95.2	-47.65	-50.91	-25	-25.91	H
10.139500	56.57	Pk	37.4	-95.2	-48.00	-49.23	-25	-24.23	H
10.169500	57.15	Pk	37.4	-95.2	-47.85	-48.50	-25	-23.50	H

10.1.3. ULCA LTE BAND 7

ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-03-18
Test Engineer:	32934
Configuration:	EUT only
Mode	LTE Band 7 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.009000	56.53	Pk	34.0	-95.2	-49.20	-53.87	-25	-28.87	V
5.033000	57.00	Pk	34.0	-95.2	-49.30	-53.50	-25	-28.50	H
7.528500	54.99	Pk	35.7	-95.2	-47.90	-52.41	-25	-27.41	V
7.531500	55.42	Pk	35.7	-95.2	-47.90	-51.98	-25	-26.98	H
10.026500	56.23	Pk	37.2	-95.2	-47.90	-49.67	-25	-24.67	H
10.033000	56.33	Pk	37.2	-95.2	-48.00	-49.67	-25	-24.67	V
Mid Channel, 2525.1MHz + 2544.9MHz									
5.046500	56.76	Pk	34.0	-95.2	-49.20	-53.64	-25	-28.64	V
5.065000	56.71	Pk	33.9	-95.2	-49.40	-53.99	-25	-28.99	H
7.554500	56.53	Pk	35.7	-95.2	-47.90	-50.87	-25	-25.87	V
7.565000	55.90	Pk	35.7	-95.2	-48.00	-51.60	-25	-26.60	H
10.111000	55.96	Pk	37.4	-95.2	-48.10	-49.94	-25	-24.94	H
10.147000	56.74	Pk	37.4	-95.2	-48.20	-49.26	-25	-24.26	V
High Channel, 2540.2MHz + 2560MHz									
5.069000	57.24	Pk	33.9	-95.2	-49.30	-53.36	-25	-28.36	V
5.086500	57.19	Pk	34.0	-95.2	-49.45	-53.46	-25	-28.46	H
7.576000	55.40	Pk	35.7	-95.2	-48.10	-52.20	-25	-27.20	V
7.621500	55.70	Pk	35.7	-95.2	-48.10	-51.90	-25	-26.90	H
10.112000	57.14	Pk	37.4	-95.2	-48.10	-48.76	-25	-23.76	V
10.168500	56.77	Pk	37.4	-95.2	-47.85	-48.88	-25	-23.88	H

ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-19
Test Engineer:	32934
Configuration:	EUT only
Mode	LTE Band 7 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.005000	57.85	Pk	34.0	-95.2	-49.20	-52.55	-25	-27.55	V
5.016000	57.61	Pk	34.0	-95.2	-49.30	-52.89	-25	-27.89	H
7.539500	55.46	Pk	35.7	-95.2	-47.90	-51.94	-25	-26.94	V
7.547500	55.76	Pk	35.7	-95.2	-47.90	-51.64	-25	-26.64	H
10.022500	55.76	Pk	37.2	-95.2	-47.90	-50.14	-25	-25.14	V
10.023000	56.44	Pk	37.2	-95.2	-47.90	-49.46	-25	-24.46	H
Mid Channel, 2525.1MHz + 2544.9MHz									
5.046500	56.74	Pk	34	-95.2	-49.20	-53.66	-25	-28.66	V
5.053500	56.47	Pk	33.9	-95.2	-49.25	-54.08	-25	-29.08	H
7.577000	55.91	Pk	35.7	-95.2	-48.10	-51.69	-25	-26.69	H
7.595500	55.97	Pk	35.7	-95.2	-48.10	-51.63	-25	-26.63	V
10.110500	56.57	Pk	37.4	-95.2	-48.05	-49.28	-25	-24.28	H
10.129500	57.05	Pk	37.4	-95.2	-48.15	-48.90	-25	-23.90	V
High Channel, 2540.2MHz + 2560MHz									
5.080500	57.51	Pk	33.9	-95.2	-49.50	-53.29	-25	-28.29	V
5.102500	56.94	Pk	34.0	-95.2	-49.45	-53.71	-25	-28.71	H
7.679000	56.39	Pk	35.8	-95.2	-47.50	-50.51	-25	-25.51	V
7.700000	56.98	Pk	35.8	-95.2	-47.30	-49.72	-25	-24.72	H
10.126000	56.48	Pk	37.4	-95.2	-48.00	-49.32	-25	-24.32	V
10.154500	55.91	Pk	37.4	-95.2	-47.90	-49.79	-25	-24.79	H

ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-20
Test Engineer:	32934
Configuration:	EUT only
Mode	LTE Band 7 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.004000	56.68	Pk	34.1	-95.2	-48.53	-52.95	-25	-27.95	V
5.026000	56.8	Pk	34.1	-95.2	-48.38	-52.68	-25	-27.68	H
7.516500	55.15	Pk	35.7	-95.2	-46.93	-51.28	-25	-26.28	V
7.530000	55.83	Pk	35.7	-95.2	-46.77	-50.44	-25	-25.44	H
10.005500	55.87	Pk	37.2	-95.2	-45.2	-47.33	-25	-22.33	H
10.011500	54.48	Pk	37.2	-95.2	-45.19	-48.71	-25	-23.71	V
Mid Channel, 2525.1MHz + 2544.9MHz									
5.030500	56.35	Pk	34.1	-95.2	-48.22	-52.97	-25	-27.97	V
5.055000	56.73	Pk	34.1	-95.2	-48.34	-52.71	-25	-27.71	H
7.583000	54.56	Pk	35.8	-95.2	-46.49	-51.33	-25	-26.33	H
7.585500	55.77	Pk	35.8	-95.2	-46.59	-50.22	-25	-25.22	V
10.099500	55.13	Pk	37.3	-95.2	-46.01	-48.78	-25	-23.78	V
10.116000	54.60	Pk	37.3	-95.2	-46.12	-49.42	-25	-24.42	H
High Channel, 2540.2MHz + 2560MHz									
5.088500	56.42	Pk	34.2	-95.2	-48.28	-52.86	-25	-27.86	V
5.100500	55.55	Pk	34.2	-95.2	-48.06	-53.51	-25	-28.51	H
7.639500	56.20	Pk	35.8	-95.2	-46.46	-49.66	-25	-24.66	V
7.640500	54.51	Pk	35.8	-95.2	-46.46	-51.35	-25	-26.35	H
10.155500	55.07	Pk	37.4	-95.2	-46.27	-49.00	-25	-24.00	V
10.163000	55.13	Pk	37.4	-95.2	-46.17	-48.84	-25	-23.84	H

ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-03-21
Test Engineer:	32934
Configuration:	EUT only
Mode	LTE Band 7 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.028000	56.55	Pk	34.0	-95.2	-49.30	-53.95	-25	-28.95	H
5.008000	56.40	Pk	34.0	-95.2	-49.20	-54.00	-25	-29.00	V
7.503226	60.32	Pk	35.7	-95.2	-47.80	-46.98	-25	-21.98	H
7.503366	60.94	Pk	35.7	-95.2	-47.80	-46.36	-25	-21.36	V
10.016500	56.90	Pk	37.2	-95.2	-48.05	-49.15	-25	-24.15	V
10.047000	56.83	Pk	37.3	-95.2	-48.00	-49.07	-25	-24.07	H
Mid Channel, 2525.1MHz + 2544.9MHz									
5.009500	57.46	Pk	34.0	-95.2	-49.25	-52.99	-25	-27.99	H
7.548500	56.43	Pk	35.7	-95.2	-47.90	-50.97	-25	-25.97	H
5.019500	56.72	Pk	34.0	-95.2	-49.35	-53.83	-25	-28.83	V
7.548414	63.76	Pk	35.7	-95.2	-47.90	-43.64	-25	-18.64	V
10.117500	56.82	Pk	37.4	-95.2	-48.20	-49.18	-25	-24.18	H
10.140000	56.79	Pk	37.4	-95.2	-48.00	-49.01	-25	-24.01	V
High Channel, 2540.2MHz + 2560MHz									
5.069000	57.32	Pk	33.9	-95.2	-49.30	-53.28	-25	-28.28	H
7.609500	56.83	Pk	35.7	-95.2	-48.20	-50.87	-25	-25.87	H
4.982065	58.01	Pk	33.9	-95.2	-48.91	-52.20	-25	-27.20	V
7.593953	63.23	Pk	35.7	-95.2	-48.10	-44.37	-25	-19.37	V
10.122500	56.34	Pk	37.4	-95.2	-48.00	-49.46	-25	-24.46	V
10.167000	57.48	Pk	37.4	-95.2	-47.90	-48.22	-25	-23.22	H

10.1.4. LTE BAND 41 (FCC)

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

Project #:	15496282
Date:	2025-03-04
Test Engineer:	32545
Configuration:	EUT Only
Mode	LTE 41 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, 2506MHz									
5.012500	54.11	Pk	34.0	-95.2	-49.25	-56.34	-25	-31.34	H
5.012500	54.96	Pk	34.0	-95.2	-49.25	-55.49	-25	-30.49	V
7.518500	54.98	Pk	35.7	-95.2	-47.80	-52.32	-25	-27.32	H
7.518500	53.41	Pk	35.7	-95.2	-47.80	-53.89	-25	-28.89	V
10.024500	54.86	Pk	37.2	-95.2	-47.85	-50.99	-25	-25.99	H
10.024500	54.24	Pk	37.2	-95.2	-47.85	-51.61	-25	-26.61	V
Mid Channel, 2593MHz									
5.012500	55.02	Pk	34.0	-95.2	-49.25	-55.43	-25	-30.43	H
5.012500	55.65	Pk	34.0	-95.2	-49.25	-54.80	-25	-29.80	V
7.518000	53.19	Pk	35.7	-95.2	-47.80	-54.11	-25	-29.11	H
7.518000	54.04	Pk	35.7	-95.2	-47.80	-53.26	-25	-28.26	V
10.024500	54.43	Pk	37.2	-95.2	-47.85	-51.42	-25	-26.42	H
10.024500	55.58	Pk	37.2	-95.2	-47.85	-50.27	-25	-25.27	V
High Channel, 2680MHz									
5.012500	55.53	Pk	34	-95.2	-49.25	-54.92	-25	-29.92	H
5.012500	54.70	Pk	34	-95.2	-49.25	-55.75	-25	-30.75	V
7.518500	54.05	Pk	35.7	-95.2	-47.80	-53.25	-25	-28.25	H
7.518500	53.26	Pk	35.7	-95.2	-47.80	-54.04	-25	-29.04	V
10.025000	54.13	Pk	37.2	-95.2	-47.90	-51.77	-25	-26.77	H
10.025000	54.53	Pk	37.2	-95.2	-47.90	-51.37	-25	-26.37	V

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-05
Test Engineer:	32545
Configuration:	EUT Only
Mode	LTE 41 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, 2506MHz									
5.0125000	55.55	Pk	34.0	-95.2	-49.25	-54.90	-25	-29.90	H
5.012500	54.46	Pk	34.0	-95.2	-49.25	-55.99	-25	-30.99	V
7.519000	53.67	Pk	35.7	-95.2	-47.80	-53.63	-25	-28.63	H
7.519000	54.31	Pk	35.7	-95.2	-47.80	-52.99	-25	-27.99	V
10.026000	53.27	Pk	37.2	-95.2	-47.90	-52.63	-25	-27.63	H
10.026000	53.77	Pk	37.2	-95.2	-47.90	-52.13	-25	-27.13	V
Mid Channel, 2593MHz									
5.187000	54.22	Pk	34.0	-95.2	-49.00	-55.98	-25	-30.98	H
5.187000	54.09	Pk	34.0	-95.2	-49.00	-56.11	-25	-31.11	V
7.779500	54.15	Pk	35.8	-95.2	-47.20	-52.45	-25	-27.45	H
7.779500	54.33	Pk	35.8	-95.2	-47.20	-52.27	-25	-27.27	V
10.372500	55.30	Pk	37.5	-95.2	-47.60	-50.00	-25	-25.00	H
10.372500	55.02	Pk	37.5	-95.2	-47.60	-50.28	-25	-25.28	V
High Channel, 2680MHz									
5.186500	54.94	Pk	34.0	-95.2	-49.00	-55.26	-25	-30.26	H
5.186500	54.23	Pk	34.0	-95.2	-49.00	-55.97	-25	-30.97	V
7.779500	55.14	Pk	35.8	-95.2	-47.20	-51.46	-25	-26.46	H
7.779500	53.50	Pk	35.8	-95.2	-47.20	-53.10	-25	-28.10	V
10.372000	54.88	Pk	37.5	-95.2	-47.60	-50.42	-25	-25.42	H
10.372000	55.58	Pk	37.5	-95.2	-47.60	-49.72	-25	-24.72	V

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-17
Test Engineer:	25369
Configuration:	EUT Only
Mode	LTE 41 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, 2506MHz									
5.011000	56.39	Pk	34.0	-95.2	-49.20	-54.01	-25	-29.01	H
4.991000	56.57	Pk	33.9	-95.2	-49.00	-53.73	-25	-28.73	V
7.563500	57.08	Pk	35.7	-95.2	-48.00	-50.42	-25	-25.42	H
7.539000	55.43	Pk	35.7	-95.2	-47.90	-51.97	-25	-26.97	V
10.034500	56.51	Pk	37.2	-95.2	-48.05	-49.54	-25	-24.54	H
10.034500	56.01	Pk	37.2	-95.2	-48.05	-50.04	-25	-25.04	V
Mid Channel, 2593MHz									
5.166000	57.25	Pk	34.1	-95.2	-49.10	-52.95	-25	-27.95	V
5.197500	56.57	Pk	34.1	-95.2	-49.00	-53.53	-25	-28.53	H
7.756000	55.52	Pk	35.8	-95.2	-47.00	-50.88	-25	-25.88	V
7.768500	55.45	Pk	35.8	-95.2	-47.20	-51.15	-25	-26.15	H
10.400000	56.53	Pk	37.5	-95.2	-47.30	-48.47	-25	-23.47	V
10.453500	56.98	Pk	37.5	-95.2	-46.85	-47.57	-25	-22.57	H
High Channel, 2680MHz									
5.357500	57.64	Pk	34.3	-95.2	-49.05	-52.31	-25	-27.31	H
5.320500	57.24	Pk	34.2	-95.2	-49.00	-52.76	-25	-27.76	V
8.051000	55.18	Pk	35.9	-95.2	-47.20	-51.32	-25	-26.32	H
8.035000	54.88	Pk	35.9	-95.2	-47.10	-51.52	-25	-26.52	V
10.747500	55.08	Pk	37.8	-95.2	-46.80	-49.12	-25	-24.12	V
10.720000	55.13	Pk	37.7	-95.2	-46.60	-48.97	-25	-23.97	H

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-05-13
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE 41 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, 2506MHz									
4.989500	56.73	Pk	33.9	-95.2	-49.00	-53.57	-25	-28.57	V
5.010000	56.76	Pk	34.0	-95.2	-49.30	-53.74	-25	-28.74	H
7.494000	57.04	Pk	35.7	-95.2	-47.80	-50.26	-25	-25.26	V
7.527500	56.32	Pk	35.7	-95.2	-47.85	-51.03	-25	-26.03	H
10.022000	58.19	Pk	37.2	-95.2	-47.90	-47.71	-25	-22.71	H
10.032000	56.17	Pk	37.2	-95.2	-48.00	-49.83	-25	-24.83	V
Mid Channel, 2593MHz									
7.749500	52.72	Pk	35.8	-95.2	-47.05	-53.73	-25	-28.73	H
7.749500	53.3	Pk	35.8	-95.2	-47.05	-53.15	-25	-28.15	V
5.166000	55.43	Pk	34.1	-95.2	-49.10	-54.77	-25	-29.77	H
5.166000	54.60	Pk	34.1	-95.2	-49.10	-55.60	-25	-30.60	V
10.332000	56.51	Pk	37.4	-95.2	-48.00	-49.29	-25	-24.29	H
10.332000	55.29	Pk	37.4	-95.2	-48.00	-50.51	-25	-25.51	V
High Channel, 2680MHz									
5.335000	56.96	Pk	34.2	-95.2	-49.00	-53.04	-25	-28.04	V
5.369000	56.74	Pk	34.3	-95.2	-49.00	-53.16	-25	-28.16	H
8.039500	55.67	Pk	35.9	-95.2	-47.10	-50.73	-25	-25.73	V
8.057000	55.23	Pk	35.9	-95.2	-47.20	-51.27	-25	-26.27	H
10.600500	57.69	Pk	37.7	-95.2	-47.20	-47.01	-25	-22.01	V
10.715000	55.57	Pk	37.7	-95.2	-46.60	-48.53	-25	-23.53	H

10.1.5. 5G NR n41 (FCC)

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

Project #:	15496282
Date:	2025-03-12
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
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, 2546MHz									
5.100000	56.78	Pk	34.0	-95.2	-49.40	-53.82	-25	-28.82	H
5.070000	57.71	Pk	33.9	-95.2	-49.30	-52.89	-25	-27.89	V
7.639000	54.96	Pk	35.8	-95.2	-47.90	-52.34	-25	-27.34	H
7.647000	55.53	Pk	35.8	-95.2	-47.80	-51.67	-25	-26.67	V
10.150500	57.05	Pk	37.4	-95.2	-48.10	-48.85	-25	-23.85	V
10.185500	55.67	Pk	37.4	-95.2	-47.90	-50.03	-25	-25.03	H
Mid Channel, 2593MHz									
5.182500	56.67	Pk	34.0	-95.2	-49.05	-53.58	-25	-28.58	V
5.193000	56.87	Pk	34.1	-95.2	-49.10	-53.33	-25	-28.33	H
7.768000	56.24	Pk	35.8	-95.2	-47.20	-50.36	-25	-25.36	V
7.776000	55.76	Pk	35.8	-95.2	-47.30	-50.94	-25	-25.94	H
10.365500	55.54	Pk	37.5	-95.2	-47.85	-50.01	-25	-25.01	H
10.379500	55.60	Pk	37.5	-95.2	-47.65	-49.75	-25	-24.75	V
High Channel, 2640MHz									
5.247000	56.09	Pk	34.2	-95.2	-48.90	-53.81	-25	-28.81	V
5.294000	56.48	Pk	34.2	-95.2	-49.00	-53.52	-25	-28.52	H
7.774000	57.20	Pk	35.8	-95.2	-47.30	-49.50	-25	-24.50	V
7.935000	54.56	Pk	35.9	-95.2	-46.80	-51.54	-25	-26.54	H
10.568000	55.06	Pk	37.6	-95.2	-47.30	-49.84	-25	-24.84	V
10.569500	55.72	Pk	37.6	-95.2	-47.40	-49.28	-25	-24.28	H

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-13
Test Engineer:	32545
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
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, 2546MHz									
5.092500	55.35	Pk	34.0	-95.2	-49.55	-55.40	-25	-30.40	H
5.092500	54.19	Pk	34.0	-95.2	-49.55	-56.56	-25	-31.56	V
7.638500	53.39	Pk	35.8	-95.2	-47.95	-53.96	-25	-28.96	H
7.638500	54.19	Pk	35.8	-95.2	-47.95	-53.16	-25	-28.16	V
10.185000	53.55	Pk	37.4	-95.2	-47.90	-52.15	-25	-27.15	H
10.185000	53.51	Pk	37.4	-95.2	-47.90	-52.19	-25	-27.19	V
Mid Channel, 2593MHz									
5.185000	55.49	Pk	34.0	-95.2	-49.00	-54.71	-25	-29.71	H
5.185000	55.96	Pk	34.0	-95.2	-49.00	-54.24	-25	-29.24	V
7.780000	55.24	Pk	35.8	-95.2	-47.20	-51.36	-25	-26.36	H
7.780000	54.65	Pk	35.8	-95.2	-47.20	-51.95	-25	-26.95	V
10.372000	54.08	Pk	37.5	-95.2	-47.60	-51.22	-25	-26.22	H
10.372000	54.11	Pk	37.5	-95.2	-47.60	-51.19	-25	-26.19	V
High Channel, 2640MHz									
5.280500	55.20	Pk	34.2	-95.2	-49.10	-54.90	-25	-29.90	H
5.280500	55.41	Pk	34.2	-95.2	-49.10	-54.69	-25	-29.69	V
7.920500	52.79	Pk	35.9	-95.2	-47.00	-53.51	-25	-28.51	H
7.920500	54.14	Pk	35.9	-95.2	-47.00	-52.16	-25	-27.16	V
10.560000	52.66	Pk	37.6	-95.2	-47.20	-52.14	-25	-27.14	H
10.560000	52.10	Pk	37.6	-95.2	-47.20	-52.70	-25	-27.70	V

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-17
Test Engineer:	32545
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
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, 2546MHz									
5.092500	54.34	Pk	34.0	-95.2	-49.55	-56.41	-25	-31.41	H
5.092500	54.86	Pk	34.0	-95.2	-49.55	-55.89	-25	-30.89	V
7.638000	53.71	Pk	35.8	-95.2	-48.00	-53.69	-25	-28.69	H
7.638000	53.13	Pk	35.8	-95.2	-48.00	-54.27	-25	-29.27	V
10.183500	53.95	Pk	37.4	-95.2	-47.80	-51.65	-25	-26.65	H
10.183500	54.70	Pk	37.4	-95.2	-47.80	-50.90	-25	-25.90	V
Mid Channel, 2593MHz									
4.417000	54.88	Pk	33.6	-95.2	-48.70	-55.42	-25	-30.42	H
4.417000	58.44	Pk	33.6	-95.2	-48.70	-51.86	-25	-26.86	V
7.779500	53.28	Pk	35.8	-95.2	-47.20	-53.32	-25	-28.32	H
7.779500	52.99	Pk	35.8	-95.2	-47.20	-53.61	-25	-28.61	V
10.372500	55.52	Pk	37.5	-95.2	-47.60	-49.78	-25	-24.78	H
10.372500	54.04	Pk	37.5	-95.2	-47.60	-51.26	-25	-26.26	V
High Channel, 2640MHz									
4.653000	58.82	Pk	34.0	-95.2	-49.0	-51.38	-25	-26.38	H
4.653000	55.19	Pk	34.0	-95.2	-49.0	-55.01	-25	-30.01	V
5.967500	54.02	Pk	35.2	-95.2	-47.65	-53.63	-25	-28.63	H
5.967500	57.04	Pk	35.2	-95.2	-47.65	-50.61	-25	-25.61	V
10.560000	53.81	Pk	37.6	-95.2	-47.2	-50.99	-25	-25.99	H
10.560000	52.79	Pk	37.6	-95.2	-47.2	-52.01	-25	-27.01	V

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-03-21
Test Engineer:	32316
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
Chamber #:	05-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, 2546MHz									
5.068772	58.27	Pk	34.2	-95.2	-48.23	-50.96	-25	-25.96	H
5.100650	58.79	Pk	34.2	-95.2	-48.05	-50.26	-25	-25.26	V
7.521537	62.2	Pk	35.7	-95.2	-46.82	-44.12	-25	-19.12	H
7.549856	56.23	Pk	35.7	-95.2	-46.76	-50.03	-25	-25.03	V
10.373523	55.9	Pk	37.5	-95.2	-45.79	-47.59	-25	-22.59	H
10.385156	55.85	Pk	37.6	-95.2	-45.68	-47.43	-25	-22.43	V
Mid Channel, 2593MHz									
5.175500	56.46	Pk	34.3	-95.2	-48.22	-52.66	-25	-27.66	V
5.183000	56.72	Pk	34.3	-95.2	-48.25	-52.43	-25	-27.43	H
7.653500	54.50	Pk	35.8	-95.2	-46.35	-51.25	-25	-26.25	H
7.667500	55.77	Pk	35.8	-95.2	-46.27	-49.90	-25	-24.90	V
10.467500	55.61	Pk	37.6	-95.2	-45.94	-47.93	-25	-22.93	V
10.491000	55.05	Pk	37.6	-95.2	-46.04	-48.59	-25	-23.59	H
High Channel, 2640MHz									
5.262964	57.48	Pk	34.5	-95.2	-48.02	-51.24	-25	-26.24	V
5.270288	57.91	Pk	34.5	-95.2	-48.07	-50.86	-25	-25.86	H
7.803239	60.78	Pk	35.9	-95.2	-45.78	-44.30	-25	-19.30	H
7.807809	55.62	Pk	35.9	-95.2	-45.83	-49.51	-25	-24.51	V
10.555351	56.31	Pk	37.6	-95.2	-45.65	-46.94	-25	-21.94	V
10.556811	55.93	Pk	37.6	-95.2	-45.58	-47.25	-25	-22.25	H

10.1.6. ULCA LTE BAND 41 (FCC)

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-03-18
Test Engineer:	32934
Configuration:	EUT only
Mode	LTE Band 41 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.002000	56.77	Pk	34.0	-95.2	-49.20	-53.63	-25	-28.63	V
5.023000	56.57	Pk	34.0	-95.2	-49.20	-53.83	-25	-28.83	H
7.506500	55.38	Pk	35.7	-95.2	-47.80	-51.92	-25	-26.92	V
7.526000	56.79	Pk	35.7	-95.2	-47.80	-50.51	-25	-25.51	H
10.020500	56.32	Pk	37.2	-95.2	-47.95	-49.63	-25	-24.63	V
10.041000	56.64	Pk	37.3	-95.2	-48.00	-49.26	-25	-24.26	H
Mid Channel, 2525.1MHz + 2544.9MHz									
5.161000	57.90	Pk	34.1	-95.2	-49.10	-52.30	-25	-27.30	V
5.166500	56.17	Pk	34.1	-95.2	-49.05	-53.98	-25	-28.98	H
7.751500	55.67	Pk	35.8	-95.2	-47.10	-50.83	-25	-25.83	H
7.785500	55.31	Pk	35.8	-95.2	-47.20	-51.29	-25	-26.29	V
10.332000	56.18	Pk	37.4	-95.2	-48.00	-49.62	-25	-24.62	H
10.381000	56.74	Pk	37.5	-95.2	-47.60	-48.56	-25	-23.56	V
High Channel, 2540.2MHz + 2560MHz									
5.302000	57.09	Pk	34.2	-95.2	-48.90	-52.81	-25	-27.81	V
5.324000	56.96	Pk	34.2	-95.2	-49.00	-53.04	-25	-28.04	H
7.970500	55.20	Pk	35.9	-95.2	-46.70	-50.80	-25	-25.80	V
7.990000	54.99	Pk	35.9	-95.2	-46.80	-51.11	-25	-26.11	H
10.658000	56.84	Pk	37.7	-95.2	-46.90	-47.56	-25	-22.56	V
10.718000	56.03	Pk	37.7	-95.2	-46.70	-48.17	-25	-23.17	H

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-19
Test Engineer:	32934
Configuration:	EUT only
Mode	LTE Band 41 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 AC (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.014000	56.84	Pk	34.0	-95.2	-49.30	-53.66	-25	-28.66	H
5.020000	57.53	Pk	34.0	-95.2	-49.40	-53.07	-25	-28.07	V
7.526000	55.15	Pk	35.7	-95.2	-47.80	-52.15	-25	-27.15	V
7.533500	55.80	Pk	35.7	-95.2	-47.90	-51.6	-25	-26.60	H
10.007000	56.15	Pk	37.2	-95.2	-48.00	-49.85	-25	-24.85	V
10.044000	56.46	Pk	37.3	-95.2	-48.00	-49.44	-25	-24.44	H
Mid Channel, 2525.1MHz + 2544.9MHz									
5.171500	56.53	Pk	34.1	-95.2	-49.05	-53.62	-25	-28.62	H
5.241500	57.79	Pk	34.2	-95.2	-48.70	-51.91	-25	-26.91	V
7.721000	55.12	Pk	35.8	-95.2	-47.20	-51.48	-25	-26.48	V
7.737000	55.07	Pk	35.8	-95.2	-47.00	-51.33	-25	-26.33	H
10.340000	56.42	Pk	37.4	-95.2	-48.00	-49.38	-25	-24.38	V
10.342000	56.03	Pk	37.4	-95.2	-47.90	-49.67	-25	-24.67	H
High Channel, 2540.2MHz + 2560MHz									
5.303000	56.88	Pk	34.2	-95.2	-48.9	-53.02	-25	-28.02	V
5.328500	57.01	Pk	34.2	-95.2	-48.95	-52.94	-25	-27.94	H
7.953500	54.81	Pk	35.9	-95.2	-46.8	-51.29	-25	-26.29	V
7.982000	55.35	Pk	35.9	-95.2	-46.6	-50.55	-25	-25.55	H
10.650500	56.13	Pk	37.7	-95.2	-46.85	-48.22	-25	-23.22	H
10.685500	55.25	Pk	37.7	-95.2	-46.75	-49.00	-25	-24.00	V

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-20
Test Engineer:	32545
Configuration:	EUT only
Mode	LTE Band 41 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.032000	56.25	Pk	34.0	-95.2	-49.30	-54.25	-25	-29.25	H
5.032000	55.24	Pk	34.0	-95.2	-49.30	-55.26	-25	-30.26	V
10.664500	54.41	Pk	37.7	-95.2	-46.80	-49.89	-25	-24.89	H
7.549000	53.31	Pk	35.7	-95.2	-47.90	-54.09	-25	-29.09	H
7.549000	52.77	Pk	35.7	-95.2	-47.90	-54.63	-25	-29.63	V
10.664500	53.91	Pk	37.7	-95.2	-46.80	-50.39	-25	-25.39	V
Mid Channel, 2525.1MHz + 2544.9MHz									
5.186000	54.27	Pk	34.0	-95.2	-49.00	-55.93	-25	-30.93	H
5.186000	56.53	Pk	34.0	-95.2	-49.00	-53.67	-25	-28.67	V
7.779500	51.76	Pk	35.8	-95.2	-47.20	-54.84	-25	-29.84	H
7.779500	53.73	Pk	35.8	-95.2	-47.20	-52.87	-25	-27.87	V
10.372500	54.08	Pk	37.5	-95.2	-47.60	-51.22	-25	-26.22	H
10.372500	55.03	Pk	37.5	-95.2	-47.60	-50.27	-25	-25.27	V
High Channel, 2540.2MHz + 2560MHz									
5.340500	54.06	Pk	34.2	-95.2	-49.10	-56.04	-25	-31.04	H
5.340500	55.16	Pk	34.2	-95.2	-49.10	-54.94	-25	-29.94	V
8.010000	53.91	Pk	35.9	-95.2	-46.90	-52.29	-25	-27.29	H
8.010000	54.97	Pk	35.9	-95.2	-46.90	-51.23	-25	-26.23	V
10.680500	53.19	Pk	37.7	-95.2	-46.75	-51.06	-25	-26.06	H
10.680500	54.64	Pk	37.7	-95.2	-46.75	-49.61	-25	-24.61	V

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-03-21
Test Engineer:	32934
Configuration:	EUT only
Mode	LTE Band 41 QPSK 20MHz + 20MHz
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 AC (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.009000	56.31	Pk	34.0	-95.2	-49.20	-54.09	-25	-29.09	H
5.002000	56.88	Pk	34.0	-95.2	-49.20	-53.52	-25	-28.52	V
7.521500	56.77	Pk	35.7	-95.2	-47.85	-50.58	-25	-25.58	H
7.520500	55.65	Pk	35.7	-95.2	-47.80	-51.65	-25	-26.65	V
9.968000	57.21	Pk	37.2	-95.2	-47.70	-48.49	-25	-23.49	V
10.013500	56.77	Pk	37.2	-95.2	-48.00	-49.23	-25	-24.23	H
Mid Channel, 2525.1MHz + 2544.9MHz									
5.136500	57.48	Pk	34.1	-95.2	-49.30	-52.92	-25	-27.92	V
5.157500	57.06	Pk	34.1	-95.2	-49.15	-53.19	-25	-28.19	H
7.712500	55.06	Pk	35.8	-95.2	-47.20	-51.54	-25	-26.54	V
7.739000	54.95	Pk	35.8	-95.2	-47.00	-51.45	-25	-26.45	H
10.343000	57.40	Pk	37.4	-95.2	-47.90	-48.30	-25	-23.30	H
10.367500	57.87	Pk	37.5	-95.2	-47.75	-47.58	-25	-22.58	V
High Channel, 2540.2MHz + 2560MHz									
5.292500	56.28	Pk	34.2	-95.2	-49.00	-53.72	-25	-28.72	V
5.319500	56.90	Pk	34.2	-95.2	-49.00	-53.10	-25	-28.10	H
8.022500	54.76	Pk	35.9	-95.2	-46.90	-51.44	-25	-26.44	V
8.042500	56.13	Pk	35.9	-95.2	-47.10	-50.27	-25	-25.27	H
10.624000	55.83	Pk	37.7	-95.2	-47.00	-48.67	-25	-23.67	V
10.643000	55.51	Pk	37.7	-95.2	-47.00	-48.99	-25	-23.99	H

10.1.7. LTE BAND 41 (IC)

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

Project #:	15496282
Date:	2025-03-04
Test Engineer:	32545
Configuration:	EUT Only
Mode	LTE B41 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, 2510MHz									
5.014500	54.96	Pk	34.0	-95.2	-49.35	-55.59	-25	-30.59	H
5.014500	56.84	Pk	34.0	-95.2	-49.35	-53.71	-25	-28.71	V
7.518000	54.42	Pk	35.7	-95.2	-47.80	-52.88	-25	-27.88	H
7.518000	54.51	Pk	35.7	-95.2	-47.80	-52.79	-25	-27.79	V
10.024500	54.03	Pk	37.2	-95.2	-47.85	-51.82	-25	-26.82	H
10.024500	54.93	Pk	37.2	-95.2	-47.85	-50.92	-25	-25.92	V
Mid Channel, 2595MHz									
5.012000	55.31	Pk	34.0	-95.2	-49.20	-55.09	-25	-30.09	H
5.012000	55.89	Pk	34.0	-95.2	-49.20	-54.51	-25	-29.51	V
7.518500	53.61	Pk	35.7	-95.2	-47.80	-53.69	-25	-28.69	H
7.518500	56.63	Pk	35.7	-95.2	-47.80	-50.67	-25	-25.67	V
10.024500	53.12	Pk	37.2	-95.2	-47.85	-52.73	-25	-27.73	H
10.024500	54.01	Pk	37.2	-95.2	-47.85	-51.84	-25	-26.84	V
High Channel, 2680MHz									
5.012000	55.14	Pk	34.0	-95.2	-49.20	-55.26	-25	-30.26	H
5.012000	56.09	Pk	34.0	-95.2	-49.20	-54.31	-25	-29.31	V
7.519000	53.38	Pk	35.7	-95.2	-47.80	-53.92	-25	-28.92	H
7.519000	54.76	Pk	35.7	-95.2	-47.80	-52.54	-25	-27.54	V
10.024000	54.54	Pk	37.2	-95.2	-47.80	-51.26	-25	-26.26	H
10.024000	54.99	Pk	37.2	-95.2	-47.80	-50.81	-25	-25.81	V

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-05
Test Engineer:	32545
Configuration:	EUT Only
Mode	LTE B41 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, 2510MHz									
5.020500	55.12	Pk	34.0	-95.2	-49.35	-55.43	-25	-30.43	H
5.020500	56.22	Pk	34.0	-95.2	-49.35	-54.33	-25	-29.33	V
7.531500	53.05	Pk	35.7	-95.2	-47.90	-54.35	-25	-29.35	H
7.531500	53.83	Pk	35.7	-95.2	-47.90	-53.57	-25	-28.57	V
10.042000	52.95	Pk	37.3	-95.2	-47.90	-52.85	-25	-27.85	H
10.042000	54.12	Pk	37.3	-95.2	-47.90	-51.68	-25	-26.68	V
Mid Channel, 2595MHz									
5.191000	56.22	Pk	34.0	-95.2	-49.00	-53.98	-25	-28.98	H
5.191000	55.44	Pk	34.0	-95.2	-49.00	-54.76	-25	-29.76	V
7.786000	53.16	Pk	35.8	-95.2	-47.20	-53.44	-25	-28.44	H
7.786000	54.30	Pk	35.8	-95.2	-47.20	-52.30	-25	-27.30	V
10.381000	55.35	Pk	37.5	-95.2	-47.60	-49.95	-25	-24.95	H
10.381000	56.80	Pk	37.5	-95.2	-47.60	-48.50	-25	-23.50	V
High Channel, 2680MHz									
5.360500	54.43	Pk	34.3	-95.2	-48.95	-55.42	-25	-30.42	H
5.360500	55.12	Pk	34.3	-95.2	-48.95	-54.73	-25	-29.73	V
8.040000	52.55	Pk	35.9	-95.2	-47.10	-53.85	-25	-28.85	H
8.040000	52.82	Pk	35.9	-95.2	-47.10	-53.58	-25	-28.58	V
10.720500	53.47	Pk	37.7	-95.2	-46.60	-50.63	-25	-25.63	H
10.720500	53.19	Pk	37.7	-95.2	-46.60	-50.91	-25	-25.91	V

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-17
Test Engineer:	32545
Configuration:	EUT Only
Mode	LTE B41 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, 2510MHz									
5.024000	56.91	Pk	34.0	-95.2	-49.30	-53.59	-25	-28.59	H
4.997000	56.78	Pk	34.0	-95.2	-48.90	-53.32	-25	-28.32	V
7.542000	55.69	Pk	35.7	-95.2	-47.80	-51.61	-25	-26.61	H
7.529000	55.43	Pk	35.7	-95.2	-47.90	-51.97	-25	-26.97	V
10.036500	55.76	Pk	37.2	-95.2	-47.90	-50.14	-25	-25.14	V
10.051500	56.54	Pk	37.3	-95.2	-47.80	-49.16	-25	-24.16	H
Mid Channel, 2595MHz									
5.158500	56.70	Pk	34.1	-95.2	-49.20	-53.60	-25	-28.60	V
5.185500	56.79	Pk	34.0	-95.2	-49.00	-53.41	-25	-28.41	H
7.776000	55.27	Pk	35.8	-95.2	-47.30	-51.43	-25	-26.43	V
7.796500	55.98	Pk	35.9	-95.2	-47.35	-50.67	-25	-25.67	H
10.367500	57.54	Pk	37.5	-95.2	-47.75	-47.91	-25	-22.91	H
10.379500	56.18	Pk	37.5	-95.2	-47.65	-49.17	-25	-24.17	V
High Channel, 2680MHz									
5.324500	56.36	Pk	34.2	-95.2	-49.00	-53.64	-25	-28.64	V
5.349000	56.98	Pk	34.2	-95.2	-49.00	-53.02	-25	-28.02	H
8.041000	55.01	Pk	35.9	-95.2	-47.10	-51.39	-25	-26.39	H
8.053500	55.73	Pk	35.9	-95.2	-47.20	-50.77	-25	-25.77	V
10.705000	55.71	Pk	37.7	-95.2	-46.60	-48.39	-25	-23.39	H
10.723500	55.01	Pk	37.7	-95.2	-46.70	-49.19	-25	-24.19	V

LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-05-13
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B41 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, 2510MHz									
5.011000	56.93	Pk	34.0	-95.2	-49.20	-53.47	-25	-28.47	V
5.050000	58.24	Pk	33.9	-95.2	-49.30	-52.36	-25	-27.36	H
7.537000	55.77	Pk	35.7	-95.2	-47.90	-51.63	-25	-26.63	H
7.544500	56.02	Pk	35.7	-95.2	-47.90	-51.38	-25	-26.38	V
9.976000	57.92	Pk	37.2	-95.2	-47.80	-47.88	-25	-22.88	V
10.038500	56.49	Pk	37.2	-95.2	-47.85	-49.36	-25	-24.36	H
Mid Channel, 2595MHz									
5.149500	56.69	Pk	34.1	-95.2	-49.20	-53.61	-25	-28.61	V
5.175500	56.67	Pk	34.1	-95.2	-49.05	-53.48	-25	-28.48	H
7.740000	55.00	Pk	35.8	-95.2	-47.10	-51.50	-25	-26.50	V
7.742500	56.12	Pk	35.8	-95.2	-47.00	-50.28	-25	-25.28	H
10.359000	58.01	Pk	37.5	-95.2	-47.80	-47.49	-25	-22.49	H
10.452500	57.26	Pk	37.5	-95.2	-46.80	-47.24	-25	-22.24	V
High Channel, 2680MHz									
5.410000	56.38	Pk	34.3	-95.2	-48.80	-53.32	-25	-28.32	H
5.419000	56.19	Pk	34.3	-95.2	-48.70	-53.41	-25	-28.41	V
8.047500	55.10	Pk	35.9	-95.2	-47.15	-51.35	-25	-26.35	H
8.062500	55.06	Pk	35.9	-95.2	-47.20	-51.44	-25	-26.44	V
10.692000	55.39	Pk	37.7	-95.2	-46.60	-48.71	-25	-23.71	V
10.707500	55.60	Pk	37.7	-95.2	-46.60	-48.50	-25	-23.50	H

10.1.8. 5G NR n41 (IC)

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

Project #:	15496282
Date:	2025-03-12
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
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, 2550MHz									
5.102500	56.92	Pk	34.0	-95.2	-49.45	-53.73	-25	-28.73	H
5.109000	57.59	Pk	34.0	-95.2	-49.50	-53.11	-25	-28.11	V
7.651000	56.68	Pk	35.8	-95.2	-47.80	-50.52	-25	-25.52	H
7.651500	55.28	Pk	35.8	-95.2	-47.80	-51.92	-25	-26.92	V
10.190000	56.08	Pk	37.4	-95.2	-48.00	-49.72	-25	-24.72	H
10.203000	55.58	Pk	37.4	-95.2	-47.80	-50.02	-25	-25.02	V
Mid Channel, 2595MHz									
5.187500	55.99	Pk	34.0	-95.2	-49.00	-54.21	-25	-29.21	V
5.206000	56.23	Pk	34.1	-95.2	-49.10	-53.97	-25	-28.97	H
7.780000	55.93	Pk	35.8	-95.2	-47.20	-50.67	-25	-25.67	H
7.669500	57.15	Pk	35.8	-95.2	-47.60	-49.85	-25	-24.85	V
10.395500	55.62	Pk	37.5	-95.2	-47.50	-49.58	-25	-24.58	V
10.383500	55.14	Pk	37.5	-95.2	-47.55	-50.11	-25	-25.11	H
High Channel, 2640MHz									
5.270000	56.29	Pk	34.2	-95.2	-49.00	-53.71	-25	-28.71	V
5.291500	56.66	Pk	34.2	-95.2	-49.00	-53.34	-25	-28.34	H
7.746000	54.94	Pk	35.8	-95.2	-47.00	-51.46	-25	-26.46	V
7.779500	54.94	Pk	35.8	-95.2	-47.20	-51.66	-25	-26.66	H
10.578000	55.09	Pk	37.6	-95.2	-47.30	-49.81	-25	-24.81	H
10.579500	55.20	Pk	37.6	-95.2	-47.30	-49.70	-25	-24.70	V

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-13
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
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, 2550MHz									
5.090500	57.54	Pk	34.0	-95.2	-49.50	-53.16	-25	-28.16	V
5.103500	57.27	Pk	34.0	-95.2	-49.45	-53.38	-25	-28.38	H
7.667500	55.15	Pk	35.8	-95.2	-47.65	-51.90	-25	-26.90	V
7.668000	55.64	Pk	35.8	-95.2	-47.60	-51.36	-25	-26.36	H
10.214000	55.65	Pk	37.4	-95.2	-47.60	-49.75	-25	-24.75	H
10.219000	57.49	Pk	37.4	-95.2	-47.90	-48.21	-25	-23.21	V
Mid Channel, 2595MHz									
5.163000	55.82	Pk	34.1	-95.2	-49.10	-54.38	-25	-29.38	V
5.187500	56.32	Pk	34.0	-95.2	-49.00	-53.88	-25	-28.88	H
7.765500	55.35	Pk	35.8	-95.2	-47.20	-51.25	-25	-26.25	V
7.787500	55.85	Pk	35.8	-95.2	-47.30	-50.85	-25	-25.85	H
10.380500	55.93	Pk	37.5	-95.2	-47.60	-49.37	-25	-24.37	V
10.389000	55.70	Pk	37.5	-95.2	-47.50	-49.50	-25	-24.50	H
High Channel, 2640MHz									
5.262500	56.69	Pk	34.2	-95.2	-49.05	-53.36	-25	-28.36	V
5.282500	56.84	Pk	34.2	-95.2	-49.05	-53.21	-25	-28.21	H
7.886500	55.38	Pk	35.9	-95.2	-47.40	-51.32	-25	-26.32	V
7.920000	55.49	Pk	35.9	-95.2	-47.00	-50.81	-25	-25.81	H
10.507500	54.81	Pk	37.6	-95.2	-47.15	-49.94	-25	-24.94	V
10.561000	55.26	Pk	37.6	-95.2	-47.20	-49.54	-25	-24.54	H

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-04
Test Engineer:	32545
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
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, 2550MHz									
5.100000	55.19	Pk	34.0	-95.2	-49.40	-55.41	-25	-30.41	H
5.100000	54.89	Pk	34.0	-95.2	-49.40	-55.71	-25	-30.71	V
7.650500	53.77	Pk	35.8	-95.2	-47.85	-53.48	-25	-28.48	H
7.650500	55.47	Pk	35.8	-95.2	-47.85	-51.78	-25	-26.78	V
10.200000	54.26	Pk	37.4	-95.2	-47.70	-51.24	-25	-26.24	H
10.200000	55.98	Pk	37.4	-95.2	-47.70	-49.52	-25	-24.52	V
Mid Channel, 2595MHz									
5.190500	53.78	Pk	34.0	-95.2	-49.00	-56.42	-25	-31.42	H
5.190500	54.37	Pk	34.0	-95.2	-49.00	-55.83	-25	-30.83	V
7.786000	53.47	Pk	35.8	-95.2	-47.20	-53.13	-25	-28.13	H
7.786000	53.06	Pk	35.8	-95.2	-47.20	-53.54	-25	-28.54	V
10.380500	54.85	Pk	37.5	-95.2	-47.60	-50.45	-25	-25.45	H
10.380500	53.89	Pk	37.5	-95.2	-47.60	-51.41	-25	-26.41	V
High Channel, 2640MHz									
5.280000	55.57	Pk	34.2	-95.2	-49.10	-54.53	-25	-29.53	H
5.280000	54.79	Pk	34.2	-95.2	-49.10	-55.31	-25	-30.31	V
7.920250	53.23	Pk	35.9	-95.2	-47.00	-53.07	-25	-28.07	V
7.920500	53.57	Pk	35.9	-95.2	-47.00	-52.73	-25	-27.73	H
10.561000	53.05	Pk	37.6	-95.2	-47.20	-51.75	-25	-26.75	H
10.561000	52.90	Pk	37.6	-95.2	-47.20	-51.90	-25	-26.90	V

5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-03-21
Test Engineer:	32440
Configuration:	EUT Only
Mode	5G NR n41 BPSK 100MHz
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, 2550MHz									
5.104500	54.90	Pk	34.2	-95.2	-48.19	-54.29	-25	-29.29	H
5.107000	54.92	Pk	34.2	-95.2	-48.14	-54.22	-25	-29.22	V
7.653500	53.64	Pk	35.8	-95.2	-46.35	-52.11	-25	-27.11	H
7.658000	53.73	Pk	35.8	-95.2	-46.40	-52.07	-25	-27.07	V
10.195000	54.45	Pk	37.4	-95.2	-45.92	-49.27	-25	-24.27	V
10.197500	54.62	Pk	37.4	-95.2	-45.96	-49.14	-25	-24.14	H
Mid Channel, 2595MHz									
5.192000	56.49	Pk	34.4	-95.2	-48.09	-52.40	-25	-27.40	H
5.196000	55.25	Pk	34.4	-95.2	-48.02	-53.57	-25	-28.57	V
7.786500	52.95	Pk	35.9	-95.2	-45.61	-51.96	-25	-26.96	V
7.790000	52.28	Pk	35.9	-95.2	-45.72	-52.74	-25	-27.74	H
10.372000	53.95	Pk	37.5	-95.2	-45.83	-49.58	-25	-24.58	V
10.375000	53.56	Pk	37.5	-95.2	-45.83	-49.97	-25	-24.97	H
High Channel, 2640MHz									
5.273500	55.22	Pk	34.5	-95.2	-47.95	-53.43	-25	-28.43	V
5.275500	55.47	Pk	34.5	-95.2	-48.05	-53.28	-25	-28.28	H
7.920500	53.04	Pk	35.9	-95.2	-45.85	-52.11	-25	-27.11	H
7.925000	53.66	Pk	35.9	-95.2	-45.88	-51.52	-25	-26.52	V
10.553000	53.55	Pk	37.6	-95.2	-45.64	-49.69	-25	-24.69	V
10.55600	53.88	Pk	37.6	-95.2	-45.64	-49.36	-25	-24.36	H

10.1.9. ULCA LTE BAND 41 (IC)

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 1)

Project #:	15496282
Date:	2025-03-19
Test Engineer:	32934
Configuration:	EUT Only
Mode	Band 41 QPSK 20MHz + 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, 2510MHz + 2529.8MHz									
5.005500	57.21	Pk	34	-95.2	-49.15	-53.14	-25	-28.14	V
5.023500	56.68	Pk	34	-95.2	-49.25	-53.77	-25	-28.77	H
7.543500	55.33	Pk	35.7	-95.2	-47.9	-52.07	-25	-27.07	H
7.560500	55.25	Pk	35.7	-95.2	-47.95	-52.20	-25	-27.20	V
10.044500	56.90	Pk	37.3	-95.2	-48.00	-49.00	-25	-24.00	H
10.076000	56.20	Pk	37.3	-95.2	-48.30	-50.00	-25	-25.00	V
Mid Channel, 2585.1MHz + 2604.9MHz									
5.164000	57.55	Pk	34.1	-95.2	-49.10	-52.65	-25	-27.65	V
5.178000	57.18	Pk	34.1	-95.2	-48.90	-52.82	-25	-27.82	H
7.763500	55.34	Pk	35.8	-95.2	-47.15	-51.21	-25	-26.21	V
7.771000	55.59	Pk	35.8	-95.2	-47.20	-51.01	-25	-26.01	H
10.339000	57.35	Pk	37.4	-95.2	-47.90	-48.35	-25	-23.35	H
10.370000	56.01	Pk	37.5	-95.2	-47.70	-49.39	-25	-24.39	V
High Channel, 2660.2MHz + 2680MHz									
5.288000	57.02	Pk	34.2	-95.2	-49.00	-52.98	-25	-27.98	V
5.322500	57.34	Pk	34.2	-95.2	-49.05	-52.71	-25	-27.71	H
7.965000	55.08	Pk	35.9	-95.2	-46.70	-50.92	-25	-25.92	H
7.968500	55.17	Pk	35.9	-95.2	-46.70	-50.83	-25	-25.83	V
10.603500	55.25	Pk	37.7	-95.2	-47.15	-49.40	-25	-24.40	V
10.627500	56.48	Pk	37.7	-95.2	-47.00	-48.02	-25	-23.02	H

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496282
Date:	2025-03-20
Test Engineer:	32934
Configuration:	EUT Only
Mode	Band 41 QPSK 20MHz + 20MHz
Chamber #:	05-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT (dBm)	Margin (dB)	Polarity
Low Channel, 2510MHz + 2529.8MHz									
5.140500	55.78	Pk	34.2	-95.2	-48.17	-53.39	-25	-28.39	V
5.171000	56.33	Pk	34.3	-95.2	-47.98	-52.55	-25	-27.55	H
7.743500	53.81	Pk	35.9	-95.2	-45.69	-51.18	-25	-26.18	V
7.752500	54.38	Pk	35.9	-95.2	-45.60	-50.52	-25	-25.52	H
10.314000	54.74	Pk	37.5	-95.2	-45.98	-48.94	-25	-23.94	V
10.329000	55.61	Pk	37.5	-95.2	-46.11	-48.20	-25	-23.20	H
Mid Channel, 2585.1MHz + 2604.9MHz									
5.178500	55.47	Pk	34.3	-95.2	-48.06	-53.49	-25	-28.49	V
5.197000	57.22	Pk	34.4	-95.2	-47.88	-51.46	-25	-26.46	H
7.749500	54.03	Pk	35.9	-95.2	-45.71	-50.98	-25	-25.98	V
7.767000	54.16	Pk	35.9	-95.2	-45.41	-50.55	-25	-25.55	H
10.303000	55.42	Pk	37.5	-95.2	-45.99	-48.27	-25	-23.27	V
10.351000	54.01	Pk	37.5	-95.2	-45.94	-49.63	-25	-24.63	H
High Channel, 2660.2MHz + 2680MHz									
5.297000	56.37	Pk	34.6	-95.2	-47.93	-52.16	-25	-27.16	V
5.327500	55.83	Pk	34.6	-95.2	-47.76	-52.53	-25	-27.53	H
7.967500	54.34	Pk	35.9	-95.2	-45.56	-50.52	-25	-25.52	H
7.972500	54.02	Pk	35.9	-95.2	-45.46	-50.74	-25	-25.74	V
10.611000	54.35	Pk	37.7	-95.2	-45.5	-48.65	-25	-23.65	V
10.638000	54.74	Pk	37.7	-95.2	-45.55	-48.31	-25	-23.31	H

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496282
Date:	2025-03-20
Test Engineer:	32545
Configuration:	EUT Only
Mode	Band 41 QPSK 20MHz + 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, 2510MHz + 2529.8MHz									
5.040000	53.72	Pk	34.0	-95.2	-49.30	-56.78	-25	-31.78	H
5.040000	57.04	Pk	34.0	-95.2	-49.30	-53.46	-25	-28.46	V
7.560500	53.51	Pk	35.7	-95.2	-47.95	-53.94	-25	-28.94	H
7.560500	52.95	Pk	35.7	-95.2	-47.95	-54.50	-25	-29.50	V
10.800500	52.79	Pk	37.8	-95.2	-46.85	-51.46	-25	-26.46	V
10.800500	53.64	Pk	37.8	-95.2	-46.85	-50.61	-25	-25.61	H
Mid Channel, 2585.1MHz + 2604.9MHz									
5.190000	54.50	Pk	34.0	-95.2	-49.00	-55.70	-25	-30.70	H
5.190000	53.55	Pk	34.0	-95.2	-49.00	-56.65	-25	-31.65	V
7.785500	52.99	Pk	35.8	-95.2	-47.20	-53.61	-25	-28.61	H
7.785500	54.33	Pk	35.8	-95.2	-47.20	-52.27	-25	-27.27	V
10.380500	54.83	Pk	37.5	-95.2	-47.60	-50.47	-25	-25.47	H
10.380500	54.64	Pk	37.5	-95.2	-47.60	-50.66	-25	-25.66	V
High Channel, 2660.2MHz + 2680MHz									
5.340500	55.09	Pk	34.2	-95.2	-49.10	-55.01	-25	-30.01	H
5.340500	53.84	Pk	34.2	-95.2	-49.10	-56.26	-25	-31.26	V
8.011000	54.11	Pk	35.9	-95.2	-46.90	-52.09	-25	-27.09	H
8.011000	55.13	Pk	35.9	-95.2	-46.90	-51.07	-25	-26.07	V
10.680000	54.40	Pk	37.7	-95.2	-46.70	-49.80	-25	-24.80	H
10.680000	54.14	Pk	37.7	-95.2	-46.70	-50.06	-25	-25.06	V

ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 4)

Project #:	15496282
Date:	2025-03-04
Test Engineer:	32545
Configuration:	EUT Only
Mode	Band 41 QPSK 20MHz + 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, 2510MHz + 2529.8MHz									
5.023000	56.68	Pk	34.0	-95.2	-49.20	-53.72	-25	-28.72	H
5.004500	56.75	Pk	34.0	-95.2	-49.15	-53.60	-25	-28.60	V
7.526000	55.79	Pk	35.7	-95.2	-47.80	-51.51	-25	-26.51	H
7.503500	54.91	Pk	35.7	-95.2	-47.80	-52.39	-25	-27.39	V
10.037000	56.41	Pk	37.2	-95.2	-47.90	-49.49	-25	-24.49	H
10.060500	56.23	Pk	37.3	-95.2	-48.00	-49.67	-25	-24.67	V
Mid Channel, 2585.1MHz + 2604.9MHz									
7.728397	61.19	Pk	35.8	-95.2	-47.04	-45.25	-25	-20.25	H
7.728684	60.82	Pk	35.8	-95.2	-47.07	-45.65	-25	-20.65	V
5.187882	57.67	Pk	34.0	-95.2	-49.00	-52.53	-25	-27.53	V
5.190497	58.43	Pk	34.0	-95.2	-49.00	-51.77	-25	-26.77	H
10.376664	57.28	Pk	37.5	-95.2	-47.60	-48.02	-25	-23.02	H
10.380768	57.34	Pk	37.5	-95.2	-47.60	-47.96	-25	-22.96	V
High Channel, 2660.2MHz + 2680MHz									
5.307000	56.92	Pk	34.2	-95.2	-48.90	-52.98	-25	-27.98	V
5.310500	57.26	Pk	34.2	-95.2	-49.00	-52.74	-25	-27.74	H
7.933000	55.02	Pk	35.9	-95.2	-46.90	-51.18	-25	-26.18	V
7.966000	54.39	Pk	35.9	-95.2	-46.60	-51.51	-25	-26.51	H
10.648500	55.98	Pk	37.7	-95.2	-46.85	-48.37	-25	-23.37	V
10.656000	55.84	Pk	37.7	-95.2	-46.90	-48.56	-25	-23.56	H

11. SETUP PHOTOS

Refer to 15496282-EP1V1 for setup photos.

END OF REPORT