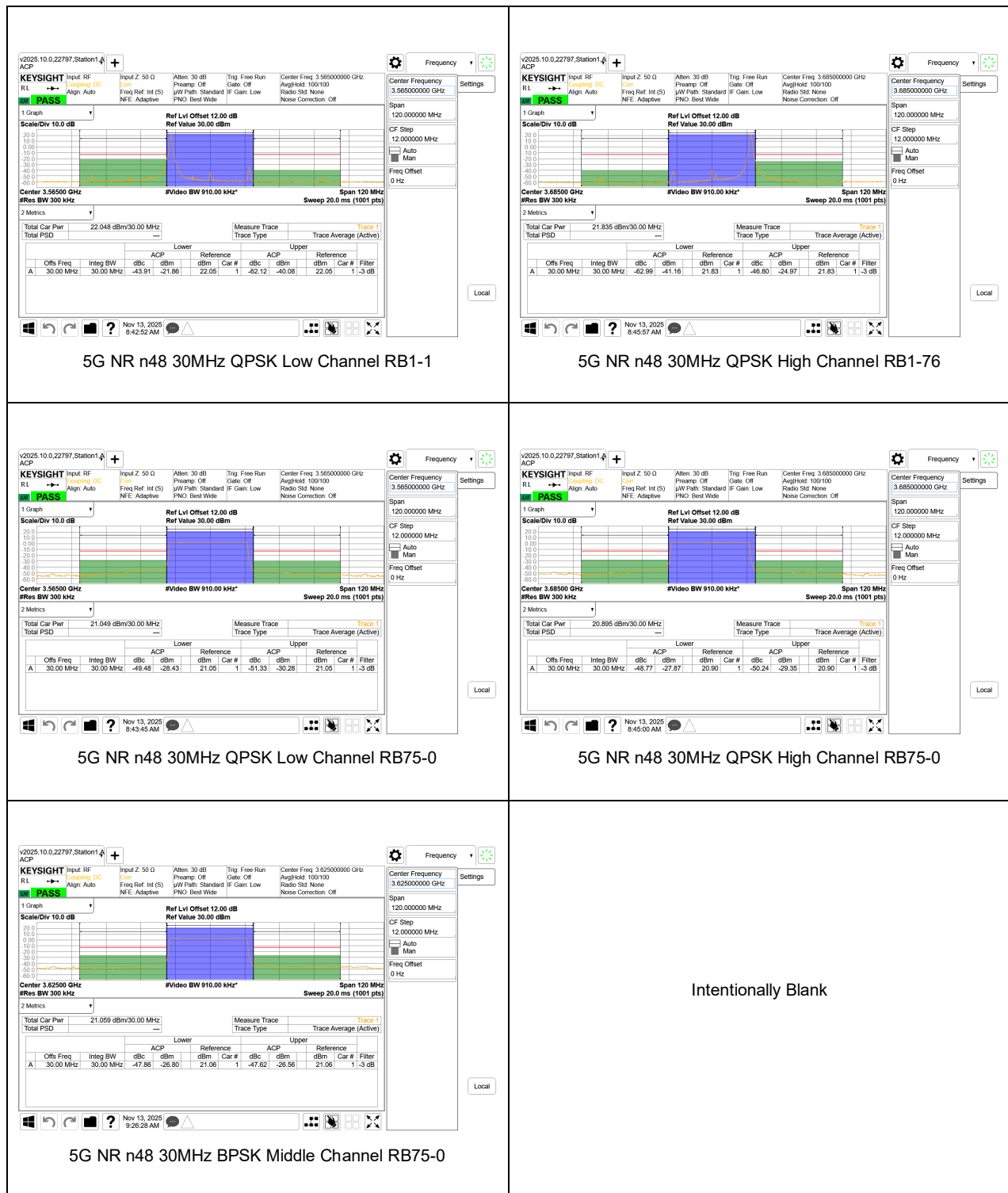
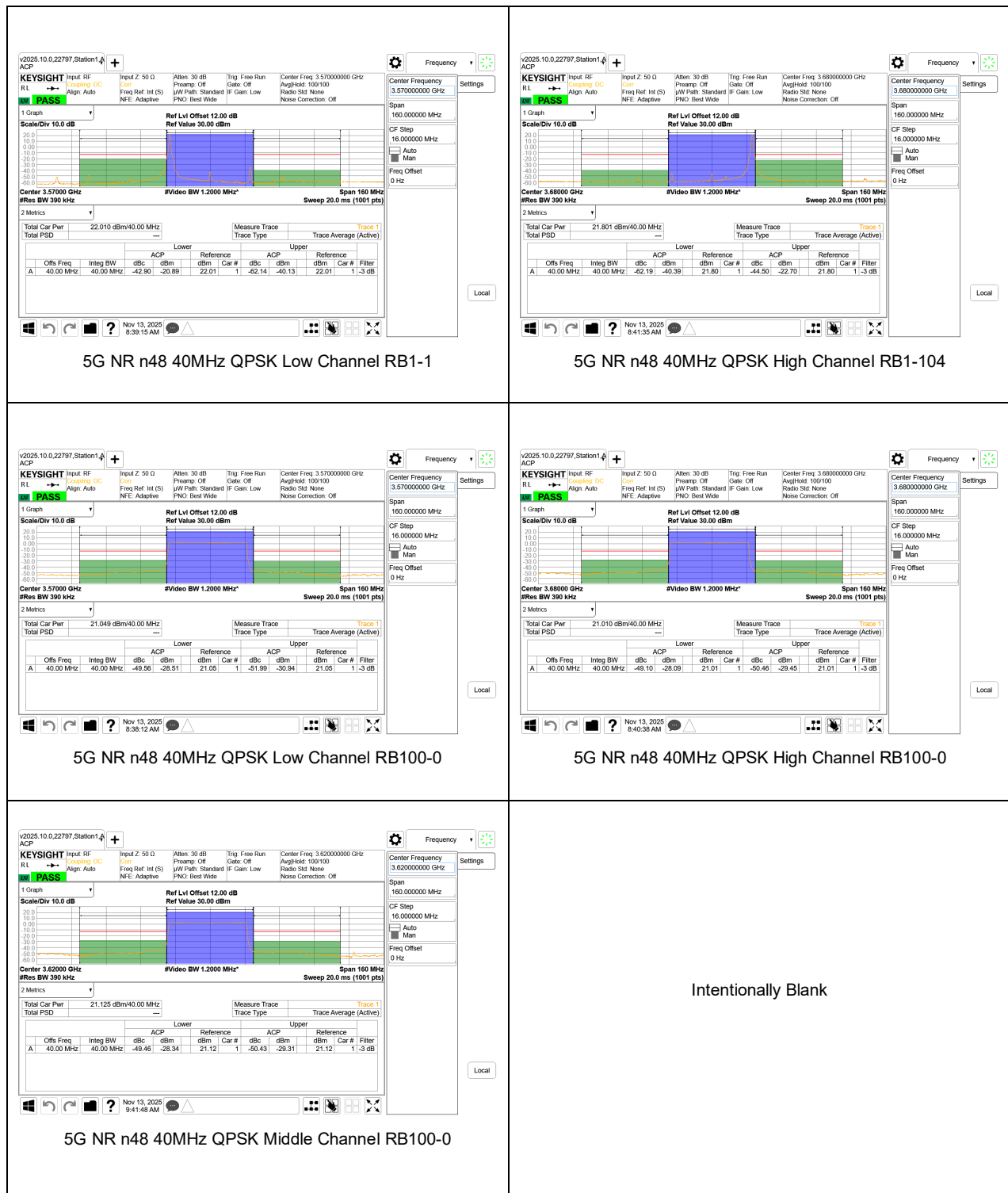
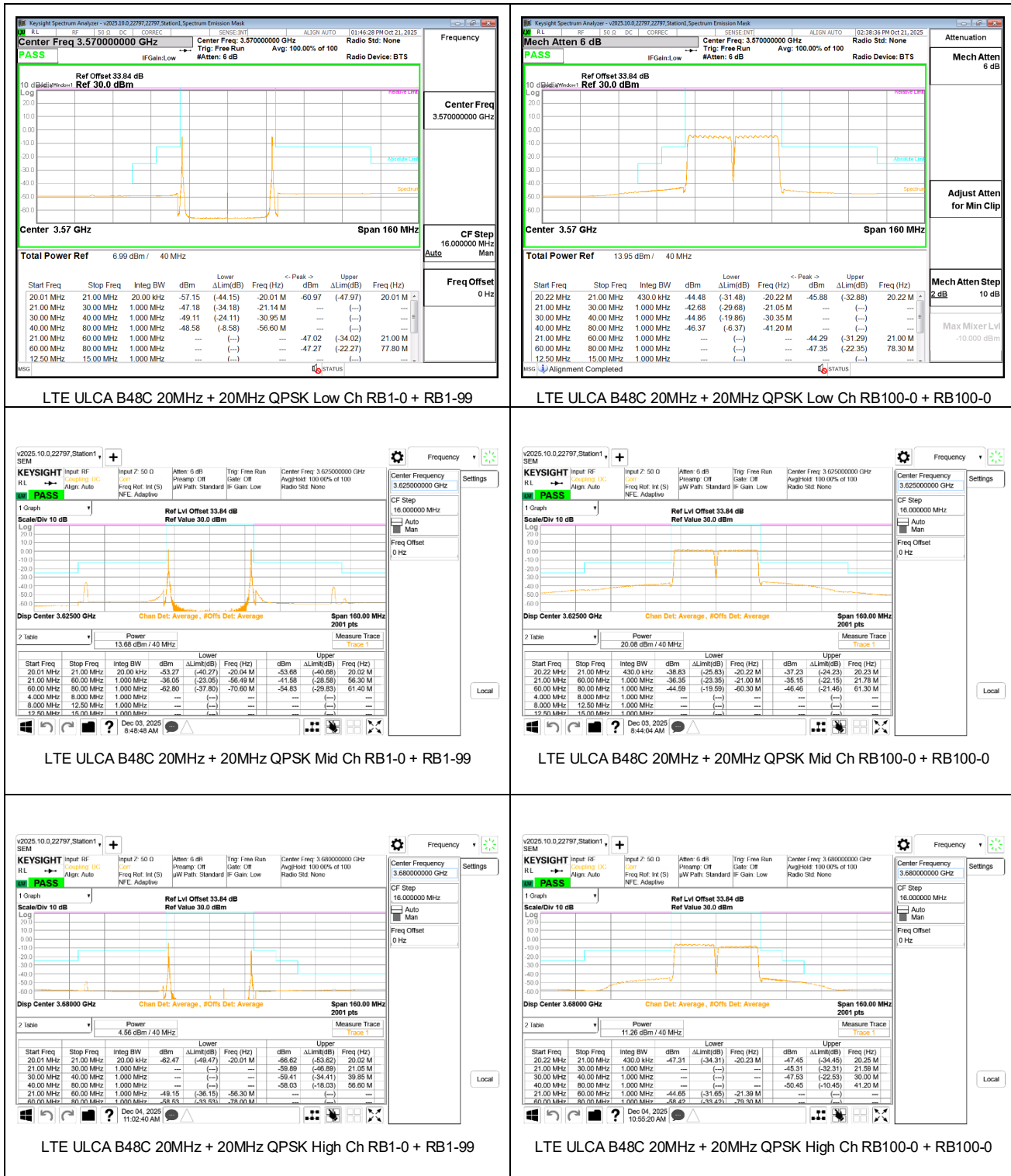


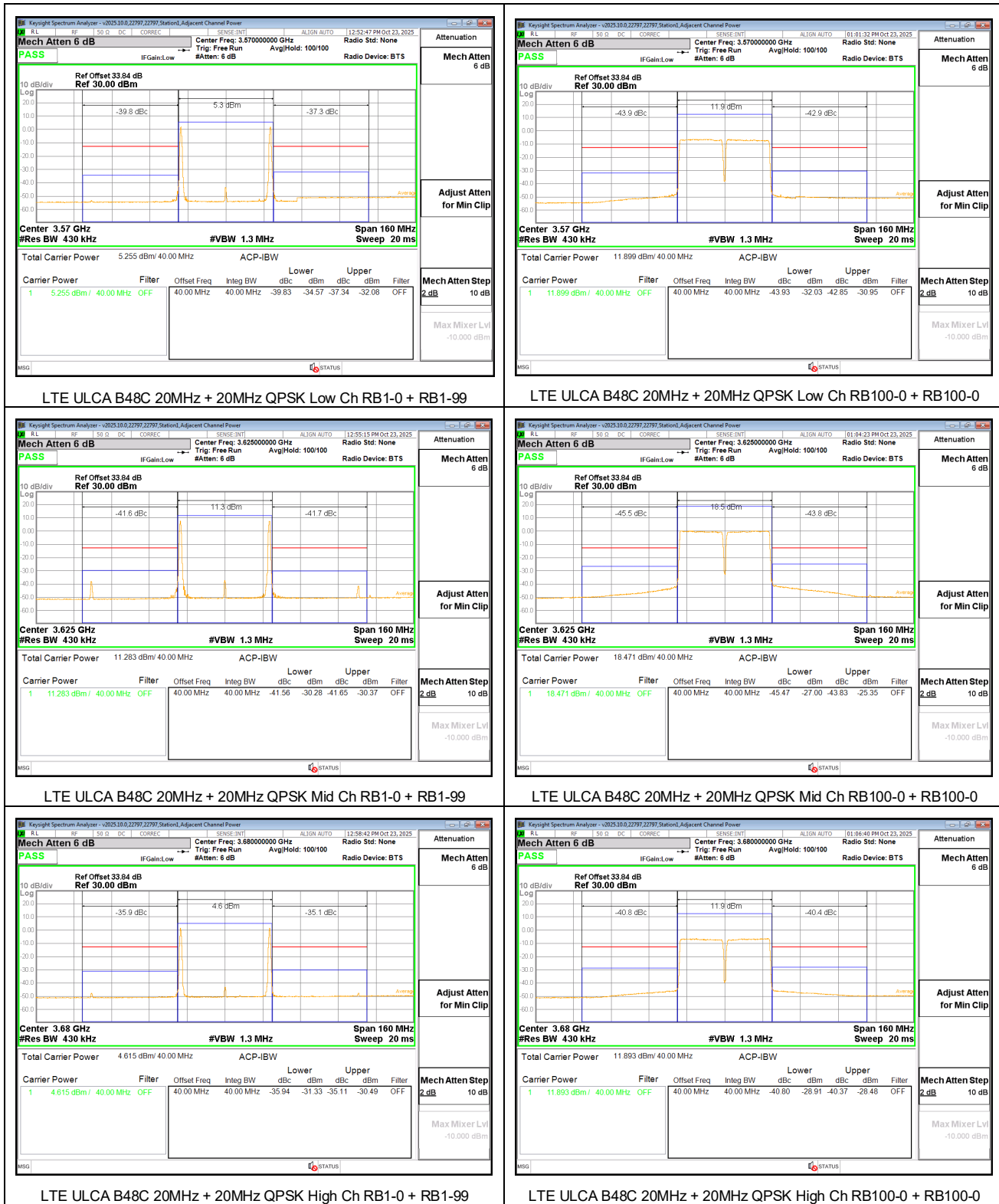




8.2.5. LTE ULCA BAND 48C EMISSION MASK



8.2.6. LTE ULCA BAND 48C ADJACENT CHANNEL POWER



8.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

TEST PROCEDURE

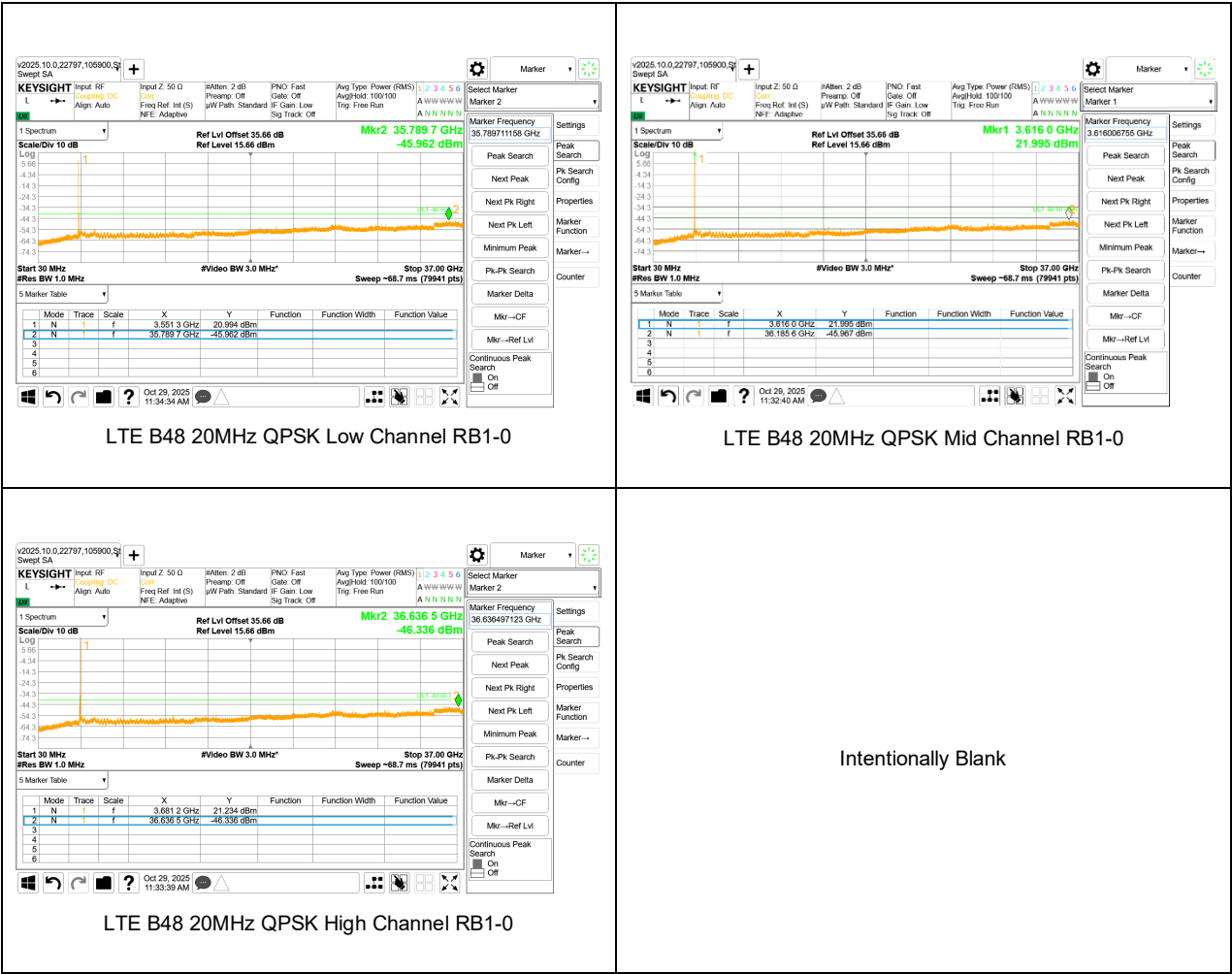
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case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

For each out of band emissions measurement:

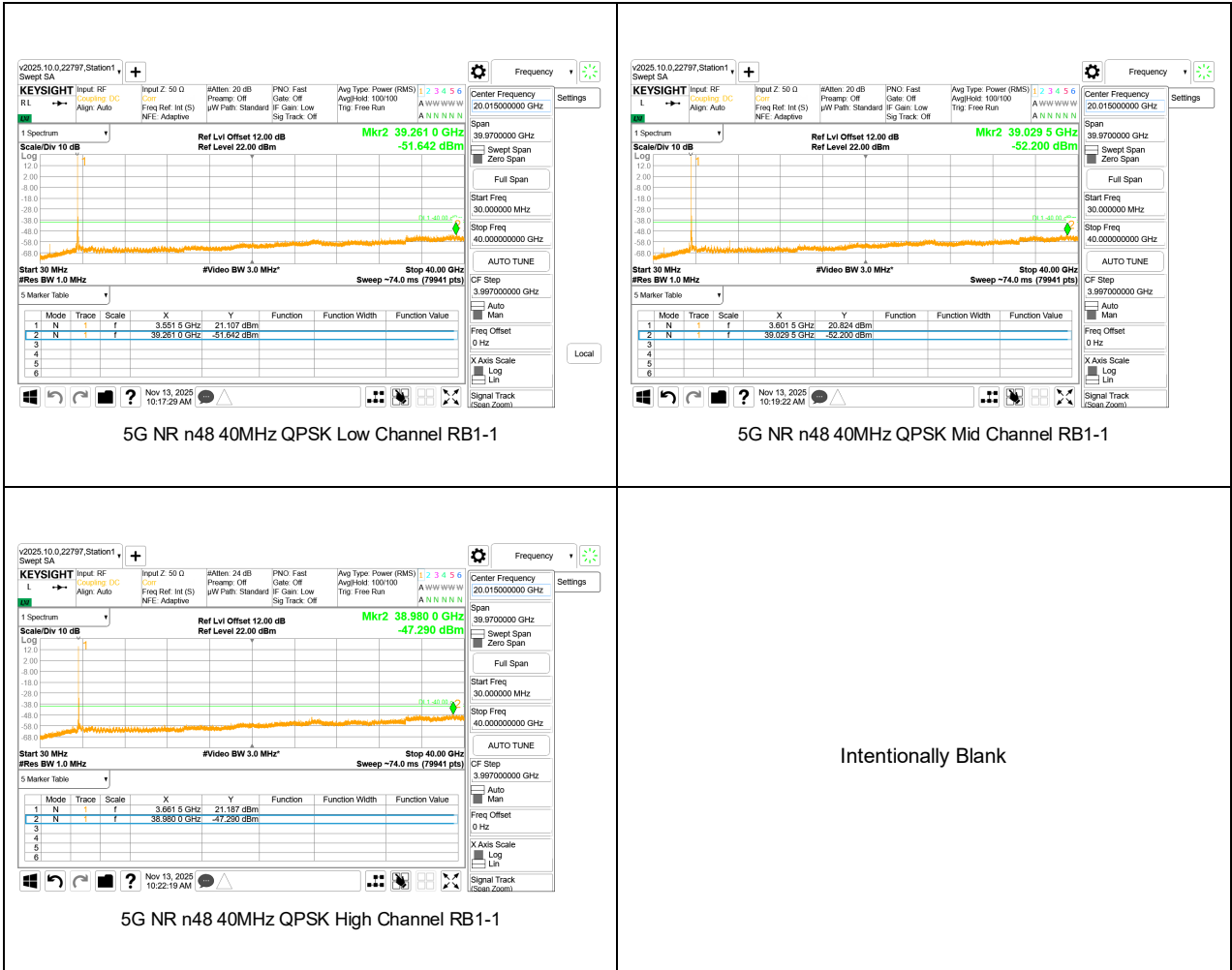
- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

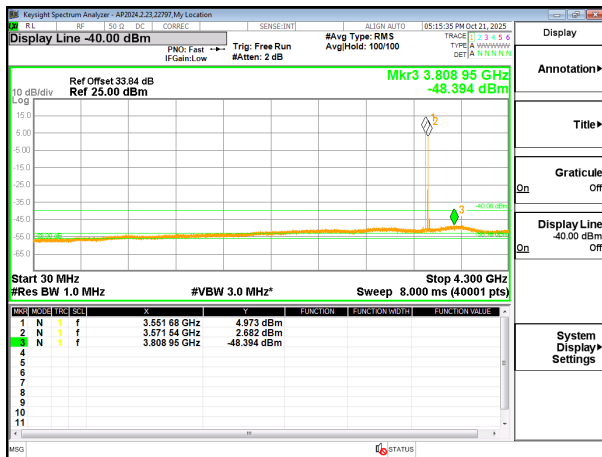
8.3.1. LTE BAND 48



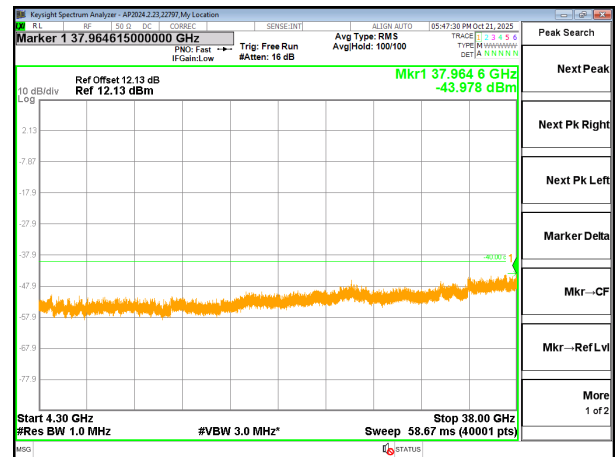
8.3.2. 5G NR n48



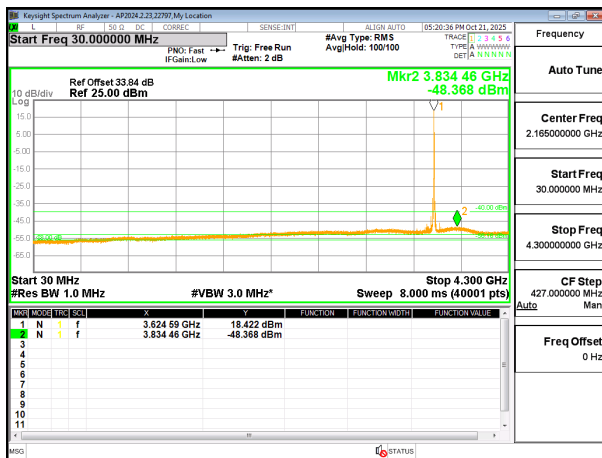
8.3.3. LTE ULCA BAND 48C



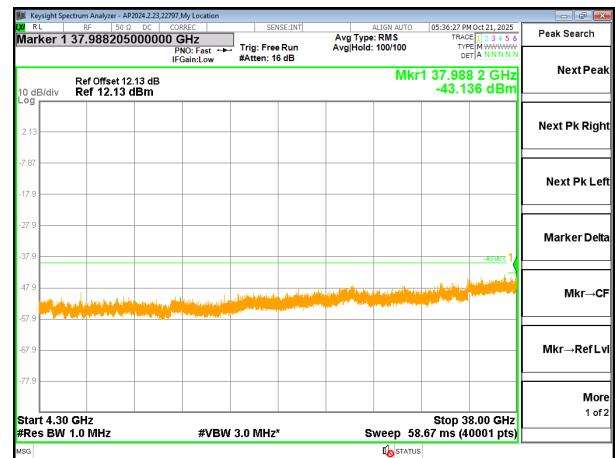
LTE ULCA B48C 20MHz + 20MHz QPSK Low Ch RB1-99 + RB1-0 (30MHz to 4.3GHz)



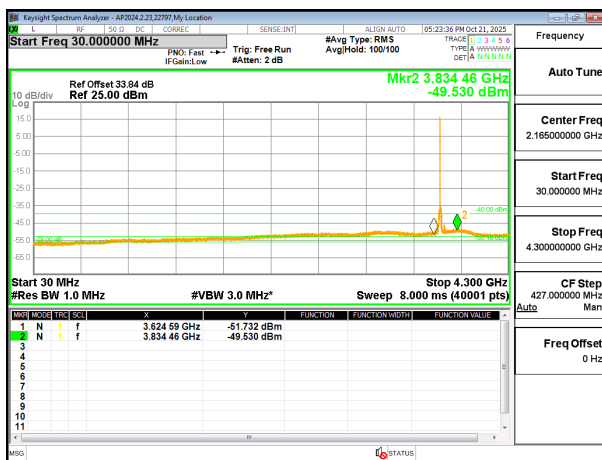
LTE ULCA B48C 20MHz + 20MHz QPSK Low Ch RB1-99 + RB1-0 (4.3GHz to 40GHz)



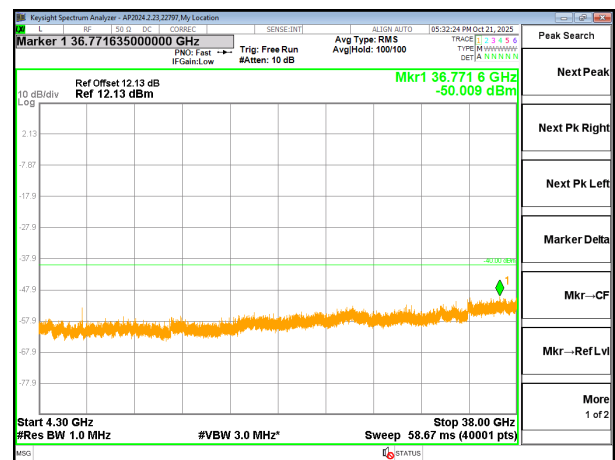
LTE ULCA B48C 20MHz + 20MHz QPSK Middle Ch RB1-99 + RB1-0 (30MHz to 4.3GHz)



LTE ULCA B48C 20MHz + 20MHz QPSK Middle Ch RB1-99 + RB1-0 (4.3GHz to 40GHz)



LTE ULCA B48C 20MHz + 20MHz QPSK High Ch RB1-99 + RB1-0 (30MHz to 4.3GHz)



LTE ULCA B48C 20MHz + 20MHz QPSK High Ch RB1-99 + RB1-0 (4.3GHz to 40GHz)

8.4. FREQUENCY STABILITY

TEST PROCEDURE

Use base station simulator 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 allows it to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:

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

RESULTS

See the following pages.

8.4.1. LTE BAND 48 QPSK (20MHz BANDWIDTH)

Test Engineer ID:	22797	Test Date:	2025-10-21
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Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	3550.8963	3699.0963			
Extreme (50°C)		3550.8962	3699.0962	-9.80	-0.003	Yes
Extreme (40°C)		3550.8962	3699.0962	-8.26	-0.002	Yes
Extreme (30°C)		3550.8962	3699.0962	-10.50	-0.003	Yes
Extreme (10°C)		3550.8962	3699.0962	-8.39	-0.002	Yes
Extreme (0°C)		3550.8962	3699.0962	-6.40	-0.002	Yes
Extreme (-10°C)		3550.8962	3699.0962	-9.62	-0.003	Yes
Extreme (-20°C)		3550.8962	3699.0962	-10.16	-0.003	Yes
Extreme (-30°C)		3550.8962	3699.0962	-8.83	-0.002	Yes
20°C	End Point Voltage	3550.8962	3699.0962	-9.05	-0.002	Yes

8.4.2. 5G NR n48 BPSK (40MHz BANDWIDTH)

Test Engineer ID:	22797	Test Date:	2025-10-21
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Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	3550.5600	3699.4700			
Extreme (50°C)		3550.5600	3699.4700	-20.9	-0.006	Yes
Extreme (40°C)		3550.5600	3699.4700	-10.7	-0.003	Yes
Extreme (30°C)		3550.5600	3699.4700	-15.8	-0.004	Yes
Extreme (10°C)		3550.5600	3699.4700	-19.1	-0.005	Yes
Extreme (0°C)		3550.5600	3699.4700	-12.5	-0.003	Yes
Extreme (-10°C)		3550.5600	3699.4700	-21.4	-0.006	Yes
Extreme (-20°C)		3550.5600	3699.4700	-23.5	-0.006	Yes
Extreme (-30°C)		3550.5600	3699.4700	-10.7	-0.003	Yes
20°C	End Point Voltage	3550.5600	3699.4700	-16.2	-0.004	Yes

8.4.3. LTE ULCA BAND 48C QPSK (20MHz + 20MHz BANDWIDTH)

Test Engineer ID:	22797	Test Date:	2025-10-21
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Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	3550.9500	3699.0700			
Extreme (50°C)		3550.9501	3699.0701	54.82	0.015	Yes
Extreme (40°C)		3550.9500	3699.0700	41.97	0.012	Yes
Extreme (30°C)		3550.9500	3699.0700	15.19	0.004	Yes
Extreme (10°C)		3550.9500	3699.0700	-45.17	-0.012	Yes
Extreme (0°C)		3550.9499	3699.0699	-59.23	-0.016	Yes
Extreme (-10°C)		3550.9499	3699.0699	-60.52	-0.017	Yes
Extreme (-20°C)		3550.9499	3699.0699	-53.10	-0.015	Yes
Extreme (-30°C)		3550.9500	3699.0700	-36.25	-0.010	Yes
20°C	End Point Voltage	3550.9500	3699.0700	17.60	0.005	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

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

RESULT

Antenna F 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 Engineer ID:	22797	Test Date:	2025-10-10
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TEST PROCEDURE

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

8.5.1. LTE BAND 48

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 48	5MHz	3625.0	25	0	QPSK	24.31	19.71	4.60
					16QAM	24.49	18.71	5.78
	10MHz	50	0	QPSK	24.40	19.73	4.67	
				16QAM	24.51	18.70	5.81	
	15MHz	3620.0	75	0	QPSK	24.43	19.71	4.72
					16QAM	24.48	18.70	5.78
	20MHz	100	0	QPSK	24.52	19.69	4.83	
				16QAM	24.69	18.74	5.95	
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.2. 5G NR n48

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n48	10MHz	3625.0	24	0	BPSK	26.81	20.66	6.15
					16QAM	26.60	19.59	7.01
	15MHz	3620.0	36	0	BPSK	27.06	20.63	6.43
					16QAM	26.58	19.62	6.96
	20MHz	50	0	BPSK	26.66	20.70	5.96	
				16QAM	26.57	19.53	7.04	
	30MHz	3625.0	75	0	BPSK	26.30	20.43	5.87
					16QAM	26.03	19.52	6.51
	40MHz	3620.0	100	0	BPSK	25.35	16.09	9.26
					16QAM	25.01	15.42	9.59
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.3. LTE ULCA BAND 48C

Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
					Peak	Average	
LTE ULCA Band 48C	5MHz / 20MHz	3615.8	3627.5	QPSK	24.93	20.48	4.45
				16QAM	25.48	19.45	6.03
	20MHz / 5MHz	3622.5	3634.2	QPSK	25.12	20.35	4.77
				16QAM	25.20	19.30	5.90
	10MHz / 20MHz	3615.6	3630.0	QPSK	24.94	20.33	4.61
				16QAM	25.09	19.35	5.74
	20MHz / 10MHz	3620.1	3634.5	QPSK	25.09	20.30	4.79
				16QAM	25.23	19.31	5.92
	15MHz / 20MHz	3615.3	3632.4	QPSK	24.95	20.21	4.74
				16QAM	24.92	19.35	5.57
	20MHz / 15MHz	3617.6	3634.7	QPSK	25.03	20.20	4.83
				16QAM	25.22	19.32	5.90
	20MHz / 20MHz	3615.1	3634.9	QPSK	25.02	20.23	4.79
				16QAM	25.24	19.31	5.93
Duty Cycle Correction Factor (dB) =			0.00				
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 method.

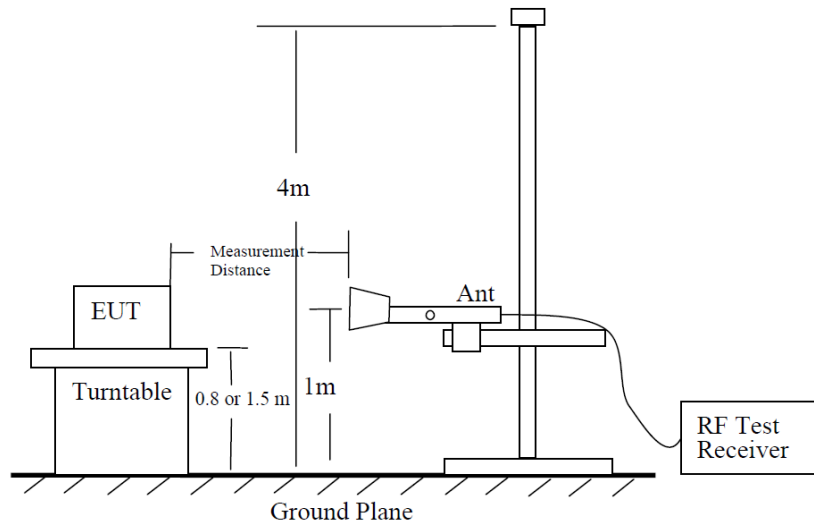


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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 ISOTROPIC RADIATED POWER (EIRP)

LIMITS

FCC: §96.41

(b) Power Limits—

Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10megahertz)	Maximum PSD (dBm/MHz)
End User Device	23 (0.2 W/10 MHz)	n/a
Category A CBSD	30	20
Category B CBSD1	47	37

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015

KDB 971168 D01 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

measurement function.

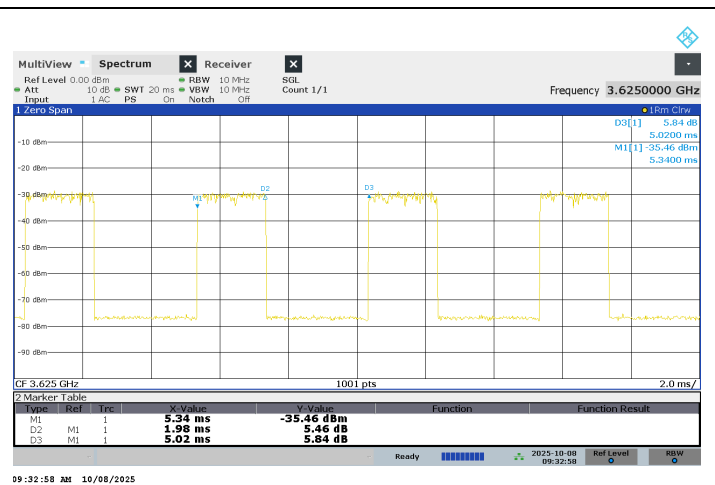
TEST RESULTS

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 - Ant F						
LTE B48 -QPSK	1.980	5.020	0.394	39.44	4.04	0.505
LTE B48 -16QAM	1.980	5.020	0.394	39.44	4.04	0.505
5GNR FR1 n48 - QPSK	1.500	10.000	0.150	15.00	8.24	0.667
5GNR FR1 n48 - 16QAM	1.500	10.000	0.150	15.00	8.24	0.667
LTE ULCA B48C - QPSK	3.000	5.000	0.600	60.00	2.22	0.333
LTE ULCA B48C - 16QAM	3.000	5.000	0.600	60.00	2.22	0.333



LTE B48 20MHz QPSK Mid Channel



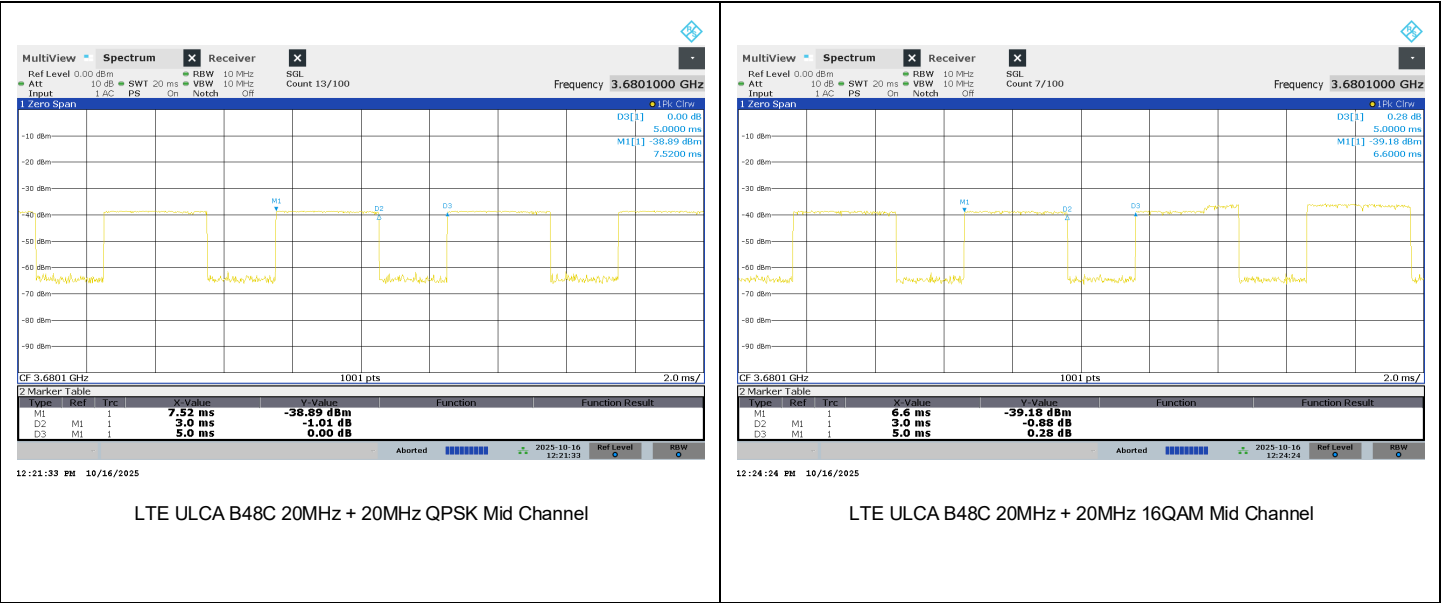
LTE B48 20MHz 16QAM Mid Channel



5G NR n48 40MHz QPSK Mid Channel



5G NR n48 40MHz 16QAM Mid Channel



9.1.1. LTE BAND 48

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274.0
Date: 10/15/2025 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 20MHz BAND 48 QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
3560.00	16.94	H	9.59	8.30	4.04	19.69	23.01	-3.32	RB1-0
3560.00	12.29	V	9.59	8.30	4.04	15.04	23.01	-7.97	RB1-0
3560.00	17.59	H	9.59	8.30	4.04	20.34	23.01	-2.67	RB1-50
3560.00	12.63	V	9.59	8.30	4.04	15.38	23.01	-7.63	RB1-50
3560.00	17.67	H	9.59	8.30	4.04	20.42	23.01	-2.59	RB1-99
3560.00	12.84	V	9.59	8.30	4.04	15.59	23.01	-7.42	RB1-99
3625.00	18.56	H	9.63	8.34	4.04	21.31	23.01	-1.70	RB1-0
3625.00	13.54	V	9.63	8.34	4.04	16.29	23.01	-6.72	RB1-0
3625.00	18.68	H	9.63	8.34	4.04	21.43	23.01	-1.58	RB1-50
3625.00	14.03	V	9.63	8.34	4.04	16.78	23.01	-6.23	RB1-50
3625.00	18.87	H	9.63	8.34	4.04	21.62	23.01	-1.39	RB1-99
3625.00	14.59	V	9.63	8.34	4.04	17.34	23.01	-5.67	RB1-99
3690.00	19.03	H	9.63	8.39	4.04	21.83	23.01	-1.18	RB1-0
3690.00	13.22	V	9.63	8.39	4.04	16.02	23.01	-6.99	RB1-0
3690.00	18.49	H	9.63	8.39	4.04	21.29	23.01	-1.72	RB1-50
3690.00	13.22	V	9.63	8.39	4.04	16.02	23.01	-6.99	RB1-50
3690.00	18.43	H	9.63	8.39	4.04	21.23	23.01	-1.78	RB1-99
3690.00	13.02	V	9.63	8.39	4.04	15.82	23.01	-7.19	RB1-99

Rev. 10.17.25

CONFIG 0 QPSK

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: Tx, LTE48, 20M, 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	RB Size-Offset
3560.00	16.61	H	9.59	8.30	4.04	19.36	23.01	-3.65	RB1-0
3560.00	11.89	V	9.59	8.30	4.04	14.64	23.01	-8.37	RB1-0
3560.00	17.10	H	9.59	8.30	4.04	19.85	23.01	-3.16	RB1-50
3560.00	12.19	V	9.59	8.30	4.04	14.94	23.01	-8.07	RB1-50
3560.00	17.07	H	9.59	8.30	4.04	19.82	23.01	-3.19	RB1-99
3560.00	12.30	V	9.59	8.30	4.04	15.05	23.01	-7.96	RB1-99
3625.00	18.00	H	9.63	8.34	4.04	20.75	23.01	-2.26	RB1-0
3625.00	12.95	V	9.63	8.34	4.04	15.70	23.01	-7.31	RB1-0
3625.00	18.07	H	9.63	8.34	4.04	20.82	23.01	-2.19	RB1-50
3625.00	13.46	V	9.63	8.34	4.04	16.21	23.01	-6.80	RB1-50
3625.00	17.90	H	9.63	8.34	4.04	20.65	23.01	-2.36	RB1-99
3625.00	13.91	V	9.63	8.34	4.04	16.66	23.01	-6.35	RB1-99
3690.00	18.32	H	9.63	8.39	4.04	21.12	23.01	-1.89	RB1-0
3690.00	12.49	V	9.63	8.39	4.04	15.29	23.01	-7.72	RB1-0
3690.00	18.05	H	9.63	8.39	4.04	20.85	23.01	-2.16	RB1-50
3690.00	12.55	V	9.63	8.39	4.04	15.35	23.01	-7.66	RB1-50
3690.00	17.92	H	9.63	8.39	4.04	20.72	23.01	-2.29	RB1-99
3690.00	12.41	V	9.63	8.39	4.04	15.21	23.01	-7.80	RB1-99

Rev. 10.17.25

CONFIG 0 16QAM

9.1.2. 5G NR n48

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48, BPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	RB Size-Offset
3570.00	14.59	H	9.59	8.30	8.24	21.54	23.01	-1.47	RB1-1
3570.00	8.30	V	9.59	8.30	8.24	15.25	23.01	-7.76	RB1-1
3570.00	13.79	H	9.59	8.30	8.24	20.74	23.01	-2.27	RB1-53
3570.00	5.60	V	9.59	8.30	8.24	12.55	23.01	-10.46	RB1-53
3570.00	13.71	H	9.59	8.30	8.24	20.66	23.01	-2.35	RB1-104
3570.00	8.75	V	9.59	8.30	8.24	15.70	23.01	-7.31	RB1-104
3600.00	14.99	H	9.59	8.34	8.24	21.98	23.01	-1.03	RB1-1
3600.00	10.49	V	9.59	8.34	8.24	17.48	23.01	-5.53	RB1-1
3600.00	13.74	H	9.59	8.34	8.24	20.73	23.01	-2.28	RB1-53
3600.00	8.56	V	9.59	8.34	8.24	15.55	23.01	-7.46	RB1-53
3600.00	14.50	H	9.59	8.34	8.24	21.49	23.01	-1.52	RB1-104
3600.00	9.12	V	9.59	8.34	8.24	16.11	23.01	-6.90	RB1-104
3630.00	14.99	H	9.63	8.34	8.24	21.94	23.01	-1.07	RB1-1
3630.00	11.13	V	9.63	8.34	8.24	18.08	23.01	-4.93	RB1-1
3630.00	14.22	H	9.63	8.34	8.24	21.17	23.01	-1.84	RB1-53
3630.00	8.70	V	9.63	8.34	8.24	15.65	23.01	-7.36	RB1-53
3630.00	13.73	H	9.63	8.34	8.24	20.68	23.01	-2.33	RB1-104
3630.00	9.40	V	9.63	8.34	8.24	16.35	23.01	-6.66	RB1-104

Rev. 10.17.25

CONFIG 0, QPSK

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
3570.00	13.56	H	9.59	8.30	8.24	20.51	23.01	-2.50	RB1-1
3570.00	7.24	V	9.59	8.30	8.24	14.19	23.01	-8.82	RB1-1
3570.00	12.54	H	9.59	8.30	8.24	19.49	23.01	-3.52	RB1-53
3570.00	7.42	V	9.59	8.30	8.24	14.37	23.01	-8.64	RB1-53
3570.00	12.53	H	9.59	8.30	8.24	19.48	23.01	-3.53	RB1-104
3570.00	7.53	V	9.59	8.30	8.24	14.48	23.01	-8.53	RB1-104
3600.00	14.01	H	9.59	8.34	8.24	21.00	23.01	-2.01	RB1-1
3600.00	9.45	V	9.59	8.34	8.24	16.44	23.01	-6.57	RB1-1
3600.00	12.59	H	9.59	8.34	8.24	19.58	23.01	-3.43	RB1-53
3600.00	7.37	V	9.59	8.34	8.24	14.36	23.01	-8.65	RB1-53
3600.00	13.30	H	9.59	8.34	8.24	20.29	23.01	-2.72	RB1-104
3600.00	7.93	V	9.59	8.34	8.24	14.92	23.01	-8.09	RB1-104
3630.00	14.07	H	9.63	8.34	8.24	21.02	23.01	-1.99	RB1-1
3630.00	10.15	V	9.63	8.34	8.24	17.10	23.01	-5.91	RB1-1
3630.00	13.09	H	9.63	8.34	8.24	20.04	23.01	-2.97	RB1-53
3630.00	7.61	V	9.63	8.34	8.24	14.56	23.01	-8.45	RB1-53
3630.00	12.58	H	9.63	8.34	8.24	19.53	23.01	-3.48	RB1-104
3630.00	8.24	V	9.63	8.34	8.24	15.19	23.01	-7.82	RB1-104

Rev. 10.17.25

CONFIG 0, 16QAM

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48, QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	RB Size-Offset
3570.00	13.73	H	9.59	8.30		12.44	23.01	-10.57	RB1-1
3570.00	-2.14	V	9.59	8.30		-3.43	23.01	-26.44	RB1-1
3570.00	9.81	H	9.59	8.30		8.52	23.01	-14.49	RB1-53
3570.00	-1.60	V	9.59	8.30		-2.89	23.01	-25.90	RB1-53
3570.00	8.77	H	9.59	8.30		7.48	23.01	-15.53	RB1-104
3570.00	-1.24	V	9.59	8.30		-2.53	23.01	-25.54	RB1-104
3600.00	10.77	H	9.59	8.34		9.52	23.01	-13.49	RB1-1
3600.00	-3.35	V	9.59	8.34		-4.60	23.01	-27.61	RB1-1
3600.00	10.47	H	9.59	8.34		9.22	23.01	-13.79	RB1-53
3600.00	-4.17	V	9.59	8.34		-5.42	23.01	-28.43	RB1-53
3600.00	10.05	H	9.59	8.34		8.80	23.01	-14.21	RB1-104
3600.00	-3.10	V	9.59	8.34		-4.35	23.01	-27.36	RB1-104
3630.00	10.28	H	9.63	8.34		8.99	23.01	-14.02	RB1-1
3630.00	-0.59	V	9.63	8.34		-1.88	23.01	-24.89	RB1-1
3630.00	10.37	H	9.63	8.34		9.08	23.01	-13.93	RB1-53
3630.00	-0.87	V	9.63	8.34		-2.16	23.01	-25.17	RB1-53
3630.00	9.92	H	9.63	8.34		8.63	23.01	-14.38	RB1-104
3630.00	-2.10	V	9.63	8.34		-3.39	23.01	-26.40	RB1-104

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SRS ANT D - QPSK

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
3570.00	10.56	H	9.59	8.30		9.27	23.01	-13.74	RB1-1
3570.00	-2.25	V	9.59	8.30		-3.54	23.01	-26.55	RB1-1
3570.00	9.78	H	9.59	8.30		8.49	23.01	-14.52	RB1-53
3570.00	-1.79	V	9.59	8.30		-3.08	23.01	-26.09	RB1-53
3570.00	8.78	H	9.59	8.30		7.49	23.01	-15.52	RB1-104
3570.00	-1.41	V	9.59	8.30		-2.70	23.01	-25.71	RB1-104
3600.00	10.50	H	9.59	8.34		9.25	23.01	-13.76	RB1-1
3600.00	-3.38	V	9.59	8.34		-4.63	23.01	-27.64	RB1-1
3600.00	10.45	H	9.59	8.34		9.20	23.01	-13.81	RB1-53
3600.00	-4.14	V	9.59	8.34		-5.39	23.01	-28.40	RB1-53
3600.00	10.05	H	9.59	8.34		8.80	23.01	-14.21	RB1-104
3600.00	-3.12	V	9.59	8.34		-4.37	23.01	-27.38	RB1-104
3630.00	10.79	H	9.63	8.34		9.50	23.01	-13.51	RB1-1
3630.00	-0.55	V	9.63	8.34		-1.84	23.01	-24.85	RB1-1
3630.00	10.34	H	9.63	8.34		9.05	23.01	-13.96	RB1-53
3630.00	-0.88	V	9.63	8.34		-2.17	23.01	-25.18	RB1-53
3630.00	9.91	H	9.63	8.34		8.62	23.01	-14.39	RB1-104
3630.00	-2.09	V	9.63	8.34		-3.38	23.01	-26.39	RB1-104

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SRS ANT D – 16QAM

**High Frequency Substitution Measurement
 UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48, QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	RB Size-Offset
3570.00	20.93	H	9.59	8.30		19.64	23.01	-3.37	RB1-1
3570.00	7.27	V	9.59	8.30		5.98	23.01	-17.03	RB1-1
3570.00	20.45	H	9.59	8.30		19.16	23.01	-3.85	RB1-53
3570.00	7.02	V	9.59	8.30		5.73	23.01	-17.28	RB1-53
3570.00	19.99	H	9.59	8.30		18.70	23.01	-4.31	RB1-104
3570.00	4.92	V	9.59	8.30		3.63	23.01	-19.38	RB1-104
3600.00	18.75	H	9.59	8.34		17.50	23.01	-5.51	RB1-1
3600.00	4.82	V	9.59	8.34		3.57	23.01	-19.44	RB1-1
3600.00	18.93	H	9.59	8.34		17.68	23.01	-5.33	RB1-53
3600.00	1.93	V	9.59	8.34		0.68	23.01	-22.33	RB1-53
3600.00	18.36	H	9.59	8.34		17.11	23.01	-5.90	RB1-104
3600.00	2.40	V	9.59	8.34		1.15	23.01	-21.86	RB1-104
3630.00	20.81	H	9.63	8.39		19.57	23.01	-3.44	RB1-1
3630.00	5.96	V	9.63	8.39		4.72	23.01	-18.29	RB1-1
3630.00	20.61	H	9.63	8.39		19.37	23.01	-3.64	RB1-53
3630.00	6.14	V	9.63	8.39		4.90	23.01	-18.11	RB1-53
3630.00	20.34	H	9.63	8.39		19.10	23.01	-3.91	RB1-104
3630.00	5.65	V	9.63	8.39		4.41	23.01	-18.60	RB1-104

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SRS ANT H – QPSK

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/10/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
3570.00	20.05	H	9.59	8.30		18.76	23.01	-4.25	RB1-1
3570.00	6.13	V	9.59	8.30		4.84	23.01	-18.17	RB1-1
3570.00	19.46	H	9.59	8.30		18.17	23.01	-4.84	RB1-53
3570.00	5.85	V	9.59	8.30		4.56	23.01	-18.45	RB1-53
3570.00	19.04	H	9.59	8.30		17.75	23.01	-5.26	RB1-104
3570.00	3.77	V	9.59	8.30		2.48	23.01	-20.53	RB1-104
3600.00	18.77	H	9.59	8.34		17.52	23.01	-5.49	RB1-1
3600.00	4.82	V	9.59	8.34		3.57	23.01	-19.44	RB1-1
3600.00	18.99	H	9.59	8.34		17.74	23.01	-5.27	RB1-53
3600.00	1.97	V	9.59	8.34		0.72	23.01	-22.29	RB1-53
3600.00	18.39	H	9.59	8.34		17.14	23.01	-5.87	RB1-104
3600.00	2.47	V	9.59	8.34		1.22	23.01	-21.79	RB1-104
3630.00	19.77	H	9.63	8.39		18.53	23.01	-4.48	RB1-1
3630.00	4.92	V	9.63	8.39		3.68	23.01	-19.33	RB1-1
3630.00	19.57	H	9.63	8.39		18.33	23.01	-4.68	RB1-53
3630.00	5.11	V	9.63	8.39		3.87	23.01	-19.14	RB1-53
3630.00	19.35	H	9.63	8.39		18.11	23.01	-4.90	RB1-104
3630.00	4.64	V	9.63	8.39		3.40	23.01	-19.61	RB1-104

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SRS ANT H – 16QAM

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/15/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48, BPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	RB Size-Offset
3570.00	9.76	H	9.59	8.30		8.47	23.01	-14.54	RB1-1
3570.00	17.10	V	9.59	8.30		15.81	23.01	-7.20	RB1-1
3570.00	9.48	H	9.59	8.30		8.19	23.01	-14.82	RB1-53
3570.00	16.28	V	9.59	8.30		14.99	23.01	-8.02	RB1-53
3570.00	9.03	H	9.59	8.30		7.74	23.01	-15.27	RB1-104
3570.00	16.82	V	9.59	8.30		15.53	23.01	-7.48	RB1-104
3600.00	10.49	H	9.59	8.34		9.24	23.01	-13.77	RB1-1
3600.00	17.12	V	9.59	8.34		15.87	23.01	-7.14	RB1-1
3600.00	9.93	H	9.59	8.34		8.68	23.01	-14.33	RB1-53
3600.00	16.58	V	9.59	8.34		15.33	23.01	-7.68	RB1-53
3600.00	8.52	H	9.59	8.34		7.27	23.01	-15.74	RB1-104
3600.00	16.37	V	9.59	8.34		15.12	23.01	-7.89	RB1-104
3630.00	11.86	H	9.63	8.34		10.57	23.01	-12.44	RB1-1
3630.00	16.80	V	9.63	8.34		15.51	23.01	-7.50	RB1-1
3630.00	10.17	H	9.63	8.34		8.88	23.01	-14.13	RB1-53
3630.00	16.51	V	9.63	8.34		15.22	23.01	-7.79	RB1-53
3630.00	10.96	H	9.63	8.34		9.67	23.01	-13.34	RB1-104
3630.00	16.00	V	9.63	8.34		14.71	23.01	-8.30	RB1-104

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SRS ANT C – QPSK

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: RFSL
Project #: 15980274.0
Date: 10/15/25 - 12/15/25
Test Engineer: 19289.0
Configuration: EUT Only
Mode: TX, 40MHz FR1 n48 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
3570.00	9.74	H	9.59	8.30		8.45	23.01	-14.56	RB1-1
3570.00	17.00	V	9.59	8.30		15.71	23.01	-7.30	RB1-1
3570.00	9.46	H	9.59	8.30		8.17	23.01	-14.84	RB1-53
3570.00	16.14	V	9.59	8.30		14.85	23.01	-8.16	RB1-53
3570.00	9.05	H	9.59	8.30		7.76	23.01	-15.25	RB1-104
3570.00	16.84	V	9.59	8.30		15.55	23.01	-7.46	RB1-104
3600.00	9.95	H	9.59	8.34		8.70	23.01	-14.31	RB1-1
3600.00	17.11	V	9.59	8.34		15.86	23.01	-7.15	RB1-1
3600.00	9.85	H	9.59	8.34		8.60	23.01	-14.41	RB1-53
3600.00	16.56	V	9.59	8.34		15.31	23.01	-7.70	RB1-53
3600.00	8.51	H	9.59	8.34		7.26	23.01	-15.75	RB1-104
3600.00	16.34	V	9.59	8.34		15.09	23.01	-7.92	RB1-104
3630.00	11.83	H	9.63	8.34		10.54	23.01	-12.47	RB1-1
3630.00	16.76	V	9.63	8.34		15.47	23.01	-7.54	RB1-1
3630.00	10.10	H	9.63	8.34		8.81	23.01	-14.20	RB1-53
3630.00	16.48	V	9.63	8.34		15.19	23.01	-7.82	RB1-53
3630.00	10.85	H	9.63	8.34		9.56	23.01	-13.45	RB1-104
3630.00	15.91	V	9.63	8.34		14.62	23.01	-8.39	RB1-104

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SRS ANT C – 16QAM

9.1.3. LTE ULCA BAND 48C

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 10/22/25
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, (20+20)MHz ULCA LTE B48, QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	PCC RB & SCC RB Size-Offset
3569.90	15.30	H	9.59	8.30	2.22	16.23	23.01	-6.78	RB1-99 & RB1-1
3569.90	10.38	V	9.59	8.30	2.22	11.31	23.01	-11.70	RB1-99 & RB1-1
3625.00	19.60	H	9.63	8.34	2.22	20.53	23.01	-2.48	RB1-99 & RB1-1
3625.00	16.03	V	9.63	8.34	2.22	16.96	23.01	-6.05	RB1-99 & RB1-1
3680.10	16.97	H	9.63	8.39	2.22	17.95	23.01	-5.06	RB1-99 & RB1-1
3680.10	9.45	V	9.63	8.39	2.22	10.43	23.01	-12.58	RB1-99 & RB1-1

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CONFIG 0, QPSK

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: RFSL
Project #: 15980274
Date: 10/22/25
Test Engineer: 19289
Configuration: EUT Only
Mode: TX, (20+20)MHz ULCA LTE B48, 16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	DCCF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	PCC RB & SCC RB Size-Offset
3569.90	14.77	H	9.59	8.30	2.22	15.70	23.01	-7.31	RB1-99 & RB1-1
3569.90	9.89	V	9.59	8.30	2.22	10.82	23.01	-12.19	RB1-99 & RB1-1
3625.00	20.38	H	9.63	8.34	2.22	21.31	23.01	-1.70	RB1-99 & RB1-1
3625.00	16.69	V	9.63	8.34	2.22	17.62	23.01	-5.39	RB1-99 & RB1-1
3680.10	17.16	H	9.63	8.39	2.22	18.14	23.01	-4.87	RB1-99 & RB1-1
3680.10	9.49	V	9.63	8.39	2.22	10.47	23.01	-12.54	RB1-99 & RB1-1

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CONFIG 0, 16QAM

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

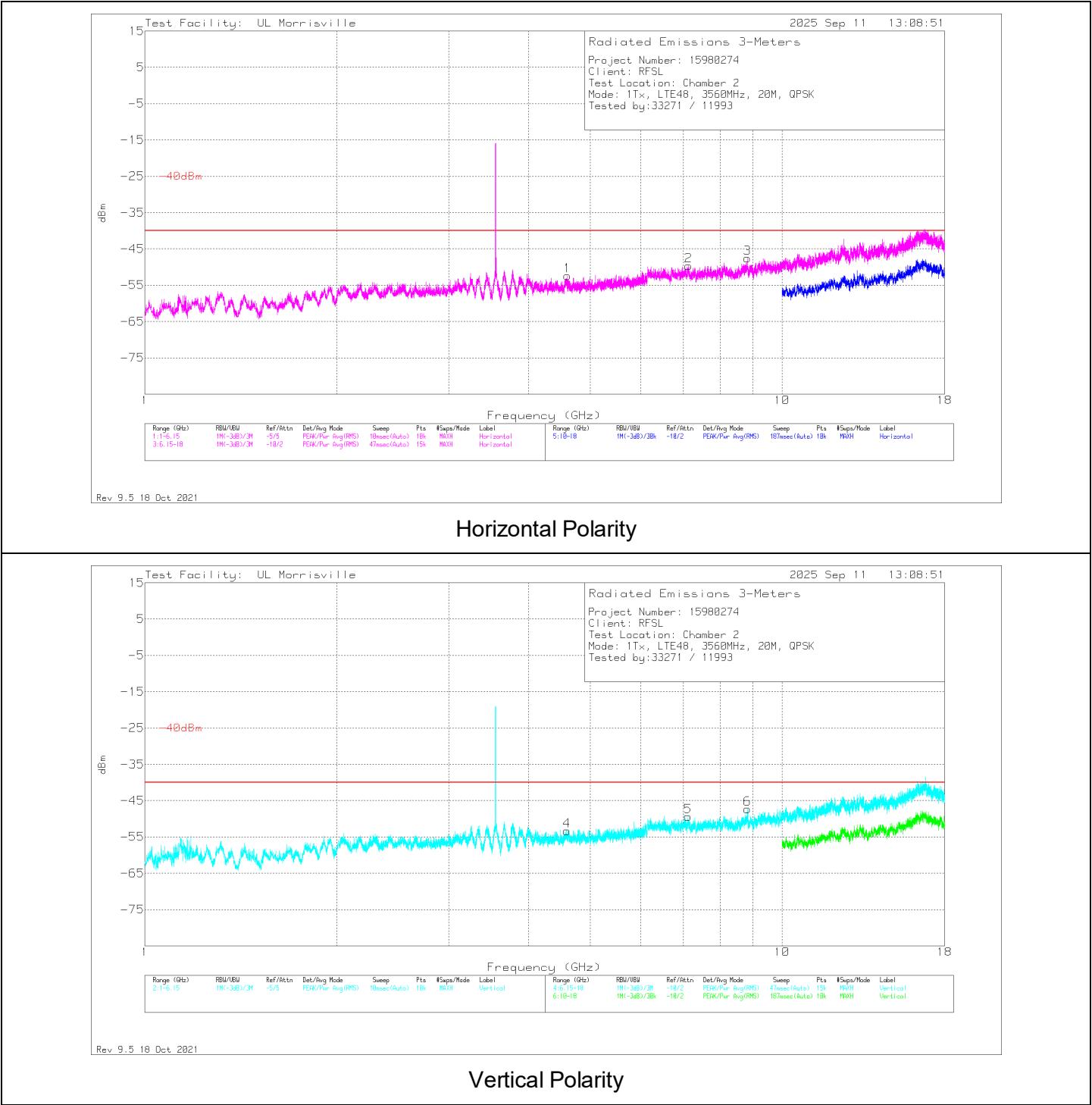
LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz .

Example Plot



Radiated Emissions

Marker	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, 3560MHz											
4	4.598820	-53.69	Pk	34.0	-45.9	11.8	0.5	-53.29	-40	-13.29	V
1	4.606030	-52.39	Pk	34.1	-46.4	11.8	0.5	-52.39	-40	-12.39	H
5	7.122490	-55.63	Pk	35.6	-41.8	11.8	0.6	-49.43	-40	-9.43	V
2	7.135130	-55.27	Pk	35.6	-42.4	11.8	0.6	-49.67	-40	-9.67	H
3	8.828890	-57.03	Pk	36.0	-39.6	11.8	1.3	-47.53	-40	-7.53	H
6	8.832050	-56.56	Pk	36.0	-39.8	11.8	1.3	-47.26	-40	-7.26	V

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 48

QPSK LTE BAND 48 (20MHz BANDWIDTH, Config 0)

Project #:	15980274
Date:	2025-09-11
Test Engineer:	33271 / 11993
Configuration:	EUT only
Mode	LTE B48 QPSK 20MHz
Chamber #:	Chamber 2

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, 3560MHz										
4.598820	-53.69	Pk	34.0	-45.9	11.8	0.5	-53.29	-40	-13.29	V
4.606030	-52.39	Pk	34.1	-46.4	11.8	0.5	-52.39	-40	-12.39	H
7.122490	-55.63	Pk	35.6	-41.8	11.8	0.6	-49.43	-40	-9.43	V
7.135130	-55.27	Pk	35.6	-42.4	11.8	0.6	-49.67	-40	-9.67	H
8.828890	-57.03	Pk	36.0	-39.6	11.8	1.3	-47.53	-40	-7.53	H
8.832050	-56.56	Pk	36.0	-39.8	11.8	1.3	-47.26	-40	-7.26	V
Mid Channel, 3600MHz										
4.586460	-54.63	Pk	34.0	-44.9	11.8	0.6	-53.13	-40	-13.13	H
4.592640	-54.55	Pk	34.0	-45.3	11.8	0.5	-53.55	-40	-13.55	V
6.154740	-54.98	Pk	35.5	-42.3	11.8	0.5	-49.48	-40	-9.48	H
6.159480	-55.56	Pk	35.5	-42.4	11.8	0.5	-50.16	-40	-10.16	V
8.113150	-55.26	Pk	35.8	-41.2	11.8	0.9	-47.96	-40	-7.96	H
8.116310	-56.54	Pk	35.8	-41.2	11.8	0.9	-49.24	-40	-9.24	V
High Channel, 3630MHz										
4.593670	-54.42	Pk	34.0	-45.4	11.8	0.5	-53.52	-40	-13.52	H
4.600880	-53.33	Pk	34.0	-46.0	11.8	0.5	-53.03	-40	-13.03	V
6.207670	-55.94	Pk	35.6	-42.5	11.8	0.5	-50.54	-40	-10.54	H
6.209250	-55.47	Pk	35.6	-42.5	11.8	0.5	-50.07	-40	-10.07	V
8.828100	-57.39	Pk	36.0	-39.7	11.8	1.3	-47.99	-40	-7.99	V
8.829680	-57.50	Pk	36.0	-39.4	11.8	1.4	-47.70	-40	-7.70	H

9.2.2. 5G NR n48

QPSK 5G NR n48 (40MHZ BANDWIDTH, Config 0)

Project #:	15988274
Date:	2025-10-08
Test Engineer:	112113 / 11993
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	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, 3570MHz										
4.908850	-65.29	Pk	33.8	-32.5	11.8	0.5	-51.69	-40	-11.69	V
4.909880	-66.13	Pk	33.8	-32.5	11.8	0.5	-52.53	-40	-12.53	H
7.290760	-68.90	Pk	35.5	-27.6	11.8	0.6	-48.60	-40	-8.60	V
7.297080	-69.77	Pk	35.5	-27.6	11.8	0.6	-49.47	-40	-9.47	H
8.824150	-70.88	Pk	35.9	-24.7	11.8	1.3	-46.58	-40	-6.58	V
8.828890	-71.25	Pk	36.0	-23.9	11.8	1.3	-46.05	-40	-6.05	H
Mid Channel, 3600MHz										
5.770960	-67.28	Pk	34.5	-31.1	11.8	0.5	-51.58	-40	-11.58	V
5.774050	-67.96	Pk	34.5	-31.2	11.8	0.5	-52.36	-40	-12.36	H
8.146330	-68.83	Pk	35.6	-26.7	11.8	0.9	-47.23	-40	-7.23	V
8.170030	-69.16	Pk	35.6	-26.7	11.8	0.7	-47.76	-40	-7.76	H
9.855100	-70.38	Pk	36.8	-23.8	11.8	0.5	-45.08	-40	-5.08	H
9.930940	-70.67	Pk	37.0	-24.4	11.8	0.8	-45.47	-40	-5.47	V
High Channel, 3630MHz										
4.984040	-66.68	Pk	33.9	-31.8	11.8	0.4	-52.38	-40	-12.38	H
4.988160	-65.18	Pk	33.9	-32.0	11.8	0.5	-50.98	-40	-10.98	V
6.81360	-68.83	Pk	35.4	-27.9	11.8	0.5	-49.03	-40	-9.03	H
6.815180	-69.04	Pk	35.4	-27.7	11.8	0.5	-49.04	-40	-9.04	V
8.473390	-69.96	Pk	35.8	-26.0	11.8	0.9	-47.46	-40	-7.46	V
8.501830	-70.48	Pk	35.7	-25.8	11.8	1.0	-47.78	-40	-7.78	H

QPSK 5G NR n48 (40MHZ BANDWIDTH, SRS ANT D)

Project #:	15988274
Date:	2025-10-10 – 2025-10-11
Test Engineer:	84740/11993
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	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, 3570MHz										
4.86817	-65.49	Pk	33.9	-32	11.8	.6	-51.19	-40	-11.19	H
5.31725	-65.94	Pk	34.4	-31.5	11.8	.5	-50.74	-40	-10.74	V
6.29694	-67.98	Pk	35.4	-28.1	11.8	.5	-48.38	-40	-8.38	H
6.43993	-66.85	Pk	35.4	-28	11.8	.6	-47.05	-40	-7.05	V
9.39687	-68.64	Pk	36.5	-24.1	11.8	1	-43.44	-40	-3.44	V
9.85784	-68.55	Pk	36.8	-23.9	11.8	.6	-43.25	-40	-3.25	H
Mid Channel, 3600MHz										
5.39398	-66.01	Pk	34.4	-32	11.8	.5	-51.31	-40	-11.31	H
5.47432	-65.32	Pk	34.4	-31.8	11.8	.5	-50.42	-40	-10.42	V
6.46837	-68.03	Pk	35.4	-27.3	11.8	.5	-47.63	-40	-7.63	H
7.13118	-68.92	Pk	35.5	-26	11.8	.6	-47.02	-40	-7.02	V
8.80238	-68.19	Pk	35.9	-25.1	11.8	1.5	-44.09	-40	-4.09	V
9.85659	-67.95	Pk	36.8	-23.7	11.8	.5	-42.55	-40	-2.55	H
High Channel, 3630MHz										
4.70028	-65.35	Pk	34.1	-32.3	11.8	.5	-51.25	-40	-11.25	H
5.89044	-66.92	Pk	34.9	-30.6	11.8	.5	-50.32	-40	-10.32	V
7.13039	-69.43	Pk	35.5	-26	11.8	.6	-47.53	-40	-7.53	H
7.13039	-69.29	Pk	35.5	-26	11.8	.6	-47.39	-40	-7.39	V
9.45218	-69.6	Pk	36.5	-24.3	11.8	1	-44.6	-40	-4.6	V
9.51092	-69.05	Pk	36.6	-24.6	11.8	1.2	-44.05	-40	-4.05	H

QPSK 5G NR n48 (40MHZ BANDWIDTH, SRS ANT H)

Project #:	15988274
Date:	2025-10-13 – 2025-10-14
Test Engineer:	112113 / 11993
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	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, 3570MHz										
5.30025	-65.93	Pk	34.4	-32.1	11.8	.5	-51.33	-40	-11.33	V
5.85336	-65.81	Pk	34.8	-30.6	11.8	.5	-49.31	-40	-9.31	H
7.13355	-68.86	Pk	35.5	-26.4	11.8	.6	-47.36	-40	-7.36	V
7.1533	-68.24	Pk	35.5	-26.8	11.8	.5	-47.24	-40	-7.24	H
9.85337	-68.33	Pk	36.8	-24	11.8	.5	-43.23	-40	-3.23	H
9.88462	-67.56	Pk	36.9	-25.9	11.8	.8	-43.96	-40	-3.96	V
Mid Channel, 360MHz										
5.30746	-66.16	Pk	34.4	-31.7	11.8	.5	-51.16	-40	-11.16	H
5.30849	-65.87	Pk	34.4	-31.6	11.8	.5	-50.77	-40	-10.77	V
7.1296	-68.91	Pk	35.5	-26	11.8	.6	-47.01	-40	-7.01	V
7.13039	-69.17	Pk	35.5	-26	11.8	.6	-47.27	-40	-7.27	H
9.40868	-67.81	Pk	36.5	-24	11.8	.8	-42.71	-40	-2.71	V
9.92586	-68.25	Pk	37	-25.2	11.8	.8	-43.85	-40	-3.85	H
High Channel, 3630MHz										
5.56342	-67.49	Pk	34.4	-31.4	11.8	.4	-52.29	-40	-12.29	V
5.56445	-67.48	Pk	34.4	-31.5	11.8	.4	-52.38	-40	-12.38	H
7.85561	-69.62	Pk	35.7	-27.6	11.8	.8	-48.92	-40	-8.92	H
7.85877	-69.84	Pk	35.7	-27.6	11.8	.8	-49.14	-40	-9.14	V
9.10618	-69.15	Pk	36	-24.1	11.8	1.3	-44.15	-40	-4.15	H
9.10855	-70.77	Pk	36	-24	11.8	1.3	-45.67	-40	-5.67	V

QPSK 5G NR n48 (40MHZ BANDWIDTH, SRS ANT C)

Project #:	15988274
Date:	2025-12-15
Test Engineer:	22797
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	Chamber 2

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, 3570MHz										
1658.685	-50.15	Pk	29.1	-49.7	11.8	.5	-58.45	-40	-18.45	V
1663.32	-48.48	Pk	29.1	-49.7	11.8	.5	-56.78	-40	-16.78	H
2217.46	-51.27	Pk	32	-49.6	11.8	.4	-56.67	-40	-16.67	V
2218.49	-48.09	Pk	32	-49.6	11.8	.4	-53.49	-40	-13.49	H
6030.005	-54.16	Pk	35.4	-44	11.8	.5	-50.46	-40	-10.46	H
6034.64	-55.55	Pk	35.4	-44.3	11.8	.5	-52.15	-40	-12.15	V
Mid Channel, 3600MHz										
1865.715	-47.7	Pk	30.8	-49.2	11.8	.3	-54	-40	-14	V
1868.805	-48.91	Pk	30.8	-49.4	11.8	.3	-55.41	-40	-15.41	H
4796.065	-52.26	Pk	34.2	-45.5	11.8	1.4	-50.36	-40	-10.36	H
4797.61	-54.21	Pk	34.2	-45.4	11.8	1.4	-52.21	-40	-12.21	V
8829.68	-57.89	Pk	35.9	-39.4	11.8	.6	-48.99	-40	-8.99	H
8829.68	-56.61	Pk	35.9	-39.4	11.8	.6	-47.71	-40	-7.71	V
High Channel, 3630MHz										
1288.4	-47.3	Pk	29.2	-49.1	11.8	.5	-54.9	-40	-14.9	V
1292.52	-49.6	Pk	29.2	-48.7	11.8	.5	-56.8	-40	-16.8	H
2416.25	-50.42	Pk	32.4	-47.8	11.8	.7	-53.32	-40	-13.32	V
2418.31	-51.72	Pk	32.4	-47.8	11.8	.7	-54.62	-40	-14.62	H
9652.07	-56.44	Pk	36.8	-41.1	11.8	.5	-48.44	-40	-8.44	H
9653.65	-55.14	Pk	36.8	-40.9	11.8	.5	-46.94	-40	-6.94	V

9.2.3. LTE ULCA BAND 48C

QPSK LTE ULCA BAND 48B (20MHz + 20MHz BANDWIDTH, Config 0)

Project #:	15988274
Date:	2025-10-16
Test Engineer:	112113 / 11993
Configuration:	EUT only
Mode	LTE B48 QPSK 20MHz + 20MHz
Chamber #:	Chamber 2

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, 3560MHz + 3579.8MHz										
5.308490	-65.51	Pk	34.4	-31.6	11.8	0.5	-50.41	-40	-10.41	H
5.308490	-66.30	Pk	34.4	-31.6	11.8	0.5	-51.20	-40	-11.20	V
6.710110	-68.65	Pk	35.5	-28.9	11.8	0.6	-49.65	-40	-9.65	H
6.714060	-69.31	Pk	35.5	-28.2	11.8	0.6	-49.61	-40	-9.61	V
9.446670	-70.38	Pk	36.5	-24.7	11.8	0.9	-45.88	-40	-5.88	H
9.456150	-69.59	Pk	36.5	-24.4	11.8	1.0	-44.69	-40	-4.69	V
Mid Channel, 3615.1MHz + 3634.9MHz										
5.311580	-65.91	Pk	34.4	-31.4	11.8	0.5	-50.61	-40	-10.61	H
5.473810	-65.06	Pk	34.4	-31.8	11.8	0.5	-50.16	-40	-10.16	V
6.744870	-66.54	Pk	35.5	-27.8	11.8	0.5	-46.54	-40	-6.54	H
6.894970	-68.46	Pk	35.5	-27.2	11.8	0.5	-47.86	-40	-7.86	V
9.400290	-68.58	Pk	36.5	-24.0	11.8	0.9	-43.38	-40	-3.38	H
9.856020	-69.08	Pk	36.8	-23.6	11.8	0.5	-43.58	-40	-3.58	V
High Channel, 3670.2MHz + 3690MHz										
5.639120	-67.21	Pk	34.4	-31.6	11.8	0.5	-52.11	-40	-12.11	H
5.641700	-67.30	Pk	34.4	-31.7	11.8	0.5	-52.30	-40	-12.30	V
7.538820	-68.13	Pk	35.5	-27.8	11.8	0.7	-47.93	-40	-7.93	H
7.538820	-68.98	Pk	35.5	-27.8	11.8	0.7	-48.78	-40	-8.78	V
8.959240	-70.47	Pk	36.0	-25.5	11.8	1.4	-46.77	-40	-6.77	H
8.963190	-70.92	Pk	36.0	-25.1	11.8	1.3	-46.92	-40	-6.92	V

10. SETUP PHOTOS

Refer to R15980274-EP1 for setup photos.

END OF REPORT