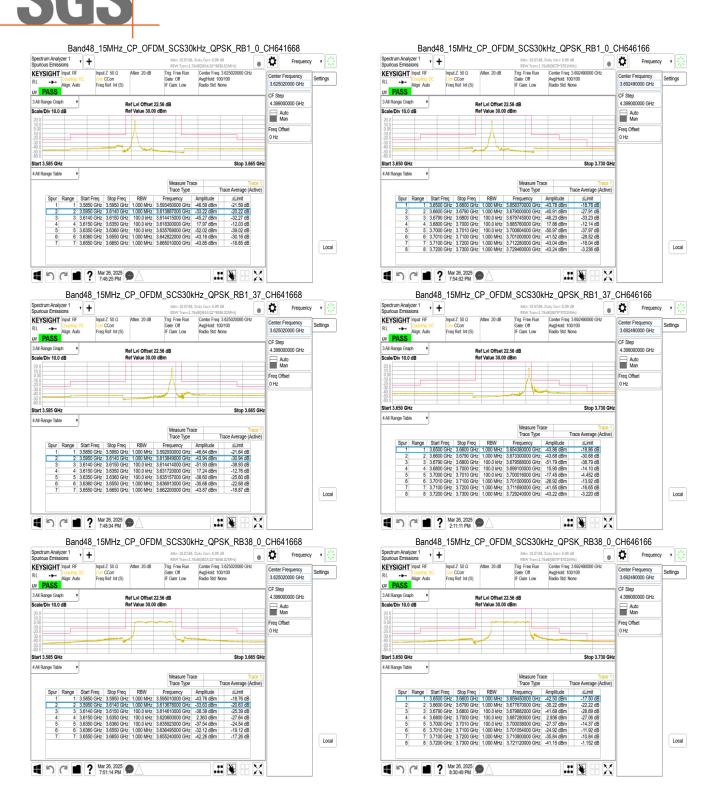


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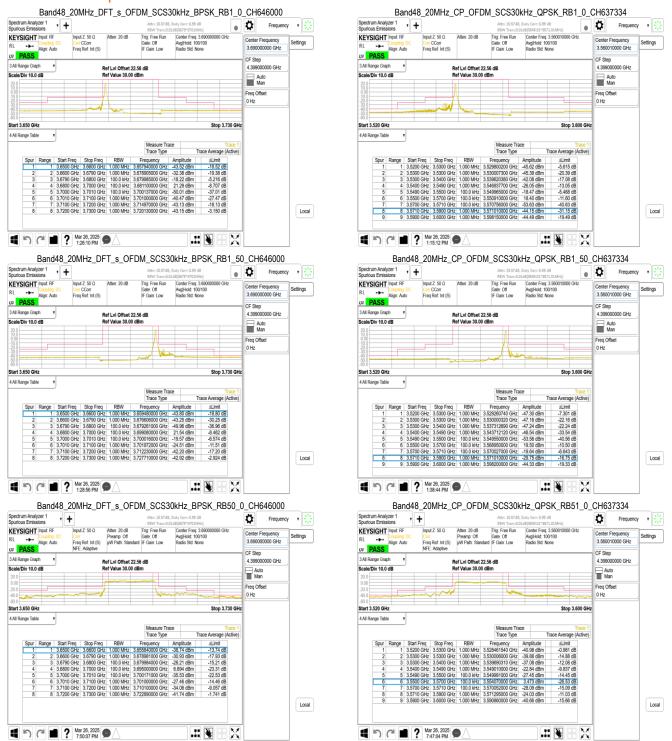
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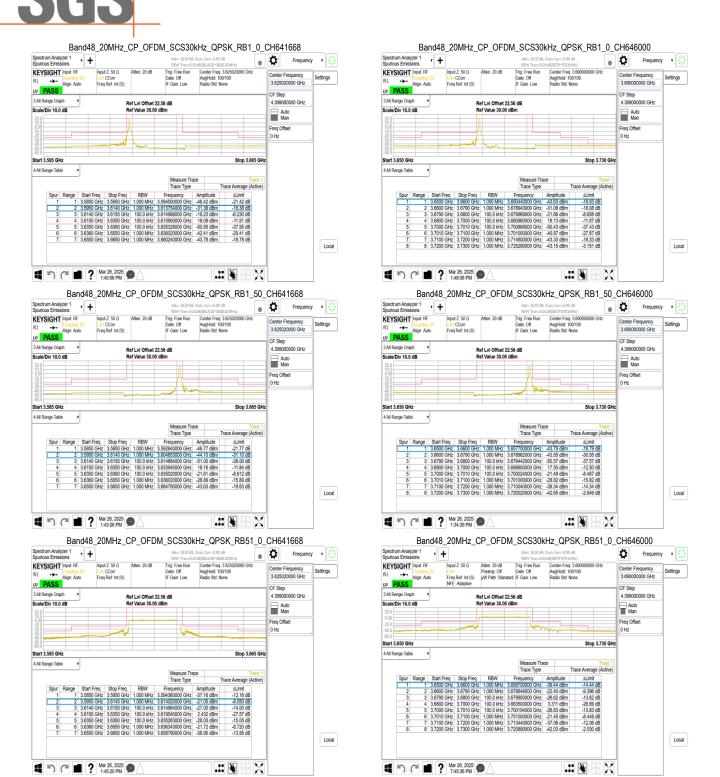
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# 11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

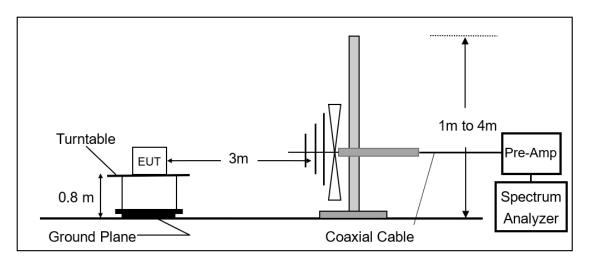
#### 11.1 Standard Applicable

FCC Part 2.1053, Part 96.41, C63.26 Clause 5.7

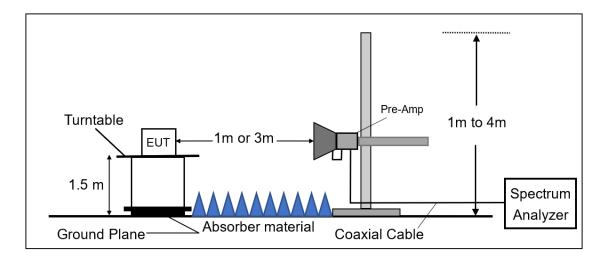
- 1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
- 2. greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz
- 3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

# 11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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#### **Measurement Procedure:**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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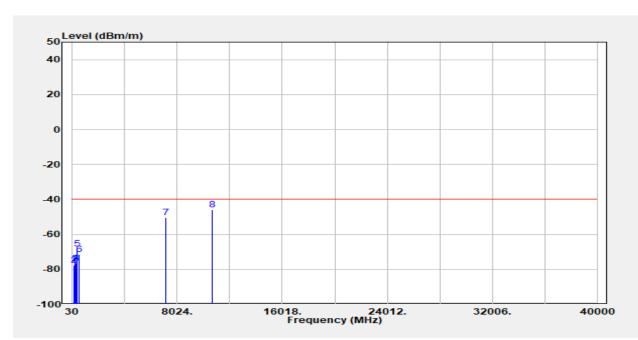
#### **Measurement Result:**

Mode: LTE

Report Number :TERF2411003769ER Test Site :SAC 3

**Operation Mode** :LTE B48 Test Date :2025-01-23 Temp./Humi. :21.2°C/62% Test Mode :Tx

**EUT Pol** :H Plane Antenna Pol. :Vertical **Test Frequency** :3560 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
127.00	-78.67	-74.97	-1.64	-2.07	-40.00	-38.67
178.41	-77.68	-76.30	1.05	-2.44	-40.00	-37.68
229.82	-77.00	-78.95	4.72	-2.77	-40.00	-37.00
281.23	-76.36	-77.01	3.71	-3.07	-40.00	-36.36
415.09	-68.36	-68.78	4.14	-3.72	-40.00	-28.36
532.46	-71.52	-71.37	4.06	-4.21	-40.00	-31.52
7120.00	-50.22	-45.17	10.96	-16.01	-40.00	-10.22
10680.00	-46.07	-37.80	11.46	-19.72	-40.00	-6.07

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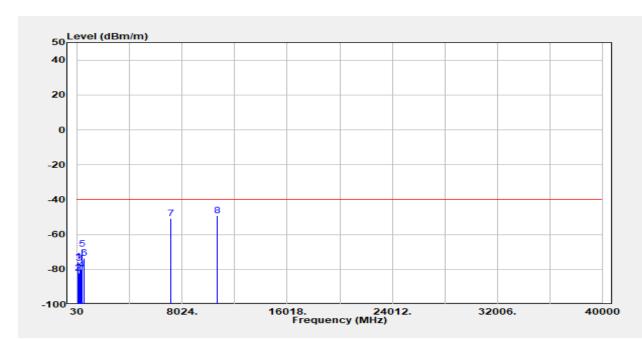
Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode** Test Date :2025-01-23 :LTE B48

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Horizontal

**Test Frequency** :3560 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
45.52	-75.80	-61.95	-12.61	-1.24	-40.00	-35.80
117.30	-82.26	-78.71	-1.57	-1.99	-40.00	-42.26
192.96	-76.61	-77.15	3.08	-2.54	-40.00	-36.61
284.14	-80.02	-80.63	3.69	-3.08	-40.00	-40.02
410.24	-68.24	-68.59	4.04	-3.69	-40.00	-28.24
533.43	-73.56	-73.44	4.09	-4.21	-40.00	-33.56
7120.00	-50.82	-45.77	10.96	-16.01	-40.00	-10.82
10680.00	-49.34	<i>-</i> 41.08	11.46	-19.72	-40.00	-9.34

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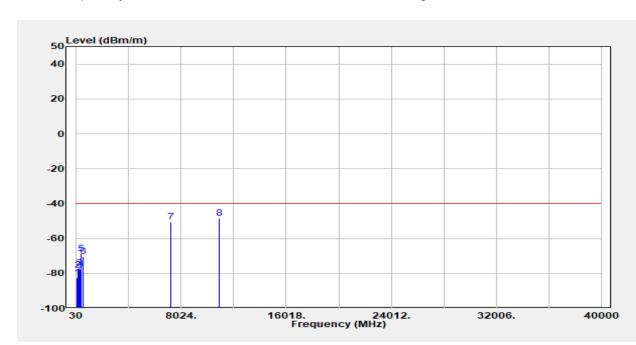
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Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode** Test Date :2025-01-23 :LTE B48

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Vertical **Test Frequency** :3625 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
52.31	-82.49	-69.59	-11.58	-1.33	-40.00	<b>-</b> 42.49
177.44	-78.14	-76.61	0.91	-2.43	-40.00	-38.14
231.76	-77.03	-78.71	4.46	-2.78	-40.00	-37.03
274.44	-77.60	-78.25	3.69	-3.03	-40.00	-37.60
415.09	-68.90	-69.32	4.14	-3.72	-40.00	-28.90
530.52	-70.28	-70.07	3.99	-4.20	-40.00	-30.28
7250.00	-50.22	-44.87	10.80	-16.15	-40.00	-10.22
10875.00	-48.22	-39.43	11.15	-19.94	-40.00	-8.22

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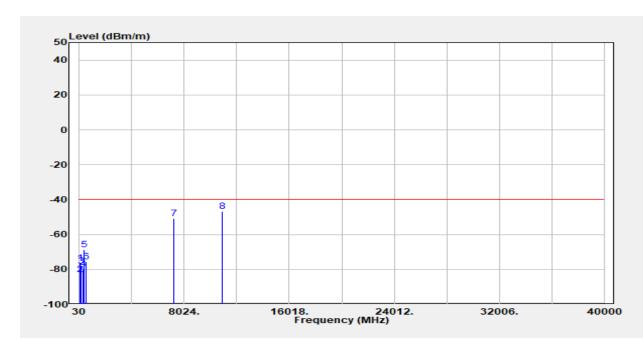
Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode** Test Date :2025-01-23 :LTE B48

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Horizontal

**Test Frequency** :3625 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-76.24	-62.46	-12.56	-1.22	-40.00	-36.24
99.84	-82.92	-80.07	-1.02	-1.83	-40.00	-42.92
191.02	-78.04	-78.42	2.90	-2.53	-40.00	-38.04
286.08	-79.62	-80.22	3.69	-3.09	-40.00	-39.62
412.18	-68.84	-69.22	4.08	-3.70	-40.00	-28.84
536.34	-75.53	-75.50	4.20	-4.23	-40.00	-35.53
7250.00	-51.01	<i>-</i> 45.66	10.80	-16.15	-40.00	-11.01
10875.00	-46.71	-37.93	11.15	-19.94	-40.00	-6.71

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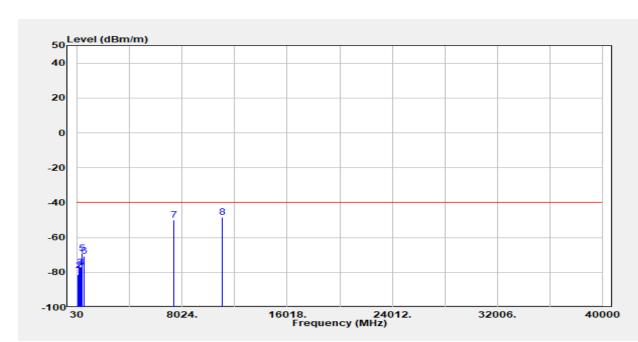
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Report Number :TERF2411003769ER Test Site :SAC 3

Operation Mode :LTE B48 Test Date :2025-01-23

Test Mode :Tx Temp./Humi. :21.2℃/62%

EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3690 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.40	-81.39	-67.99	-12.11	-1.29	-40.00	<b>-</b> 41.39
178.41	-78.77	-77.39	1.05	-2.44	-40.00	-38.77
230.79	-77.13	-78.95	4.60	-2.77	-40.00	-37.13
277.35	-77.43	-78.08	3.69	-3.05	-40.00	-37.43
420.91	-69.08	-69.46	4.12	-3.74	-40.00	-29.08
536.34	-70.65	-70.63	4.20	-4.23	-40.00	-30.65
7380.00	-50.04	-44.62	10.90	-16.32	-40.00	-10.04
11070.00	-48.30	-39.47	11.28	-20.11	-40.00	-8.30

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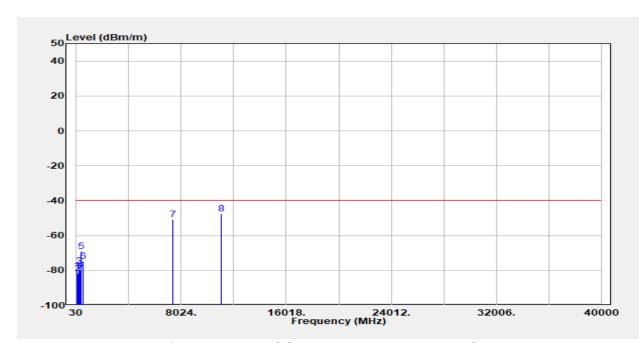
Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode** Test Date :2025-01-23 :LTE B48

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Horizontal

**Test Frequency** :3690 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
73.65	-80.27	-73.38	-5.32	-1.57	-40.00	-40.27
136.70	-81.89	-78.04	-1.71	-2.14	-40.00	-41.89
194.90	-77.51	-78.24	3.28	-2.55	-40.00	-37.51
288.02	-79.82	-80.43	3.71	-3.10	-40.00	-39.82
415.09	-69.00	-69.42	4.14	-3.72	-40.00	-29.00
539.25	-74.75	-74.82	4.30	-4.24	-40.00	-34.75
7380.00	-50.72	-45.30	10.90	-16.32	-40.00	-10.72
11070.00	-47.56	-38.73	11.28	-20.11	-40.00	-7.56

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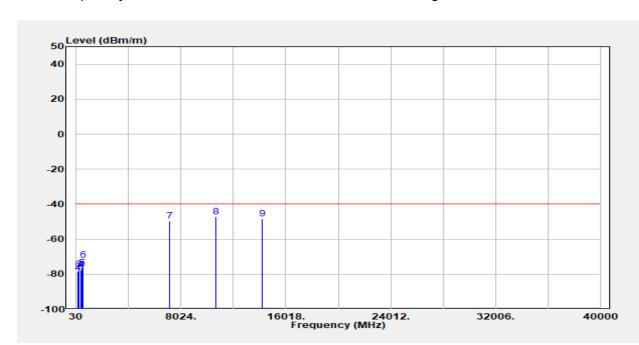


:TERF2411003769ER Test Site :SAC 3 Report Number

**Operation Mode** :RedCap\_n48 **Test Date** :2025-01-23

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Vertical **Test Frequency** :3560.01 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
·		Output Level	Gain	Loss	@3m	_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
124.090	-79.35	-75.75	-1.55	-2.04	-40.00	-39.35
182.290	-78.36	-77.52	1.62	-2.47	-40.00	-38.36
229.820	-77.10	-79.06	4.72	-2.77	-40.00	-37.10
352.040	-77.62	-78.41	4.21	-3.42	-40.00	-37.62
466.500	-76.44	-76.36	3.86	-3.94	-40.00	-36.44
536.340	-72.05	-72.03	4.20	-4.23	-40.00	-32.05
7120.020	-49.45	-44.40	10.96	-16.01	-40.00	-9.45
10680.030	-47.01	-38.75	11.46	-19.72	-40.00	-7.01
14240.040	-48.18	-36.48	11.30	-23.00	-40.00	-8.18

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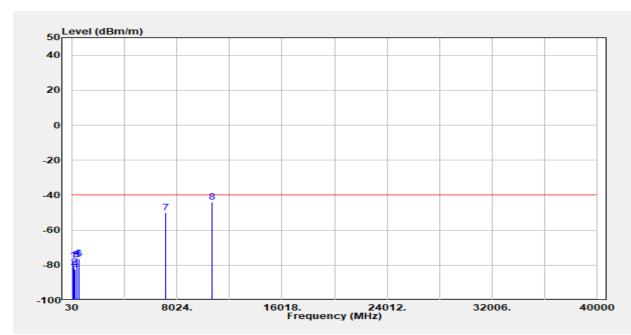
Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode Test Date** :2025-01-23 :RedCap n48

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Horizontal

**Test Frequency** :3560.01 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss	@3m	
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.400	-77.13	-63.73	-12.11	-1.29	-40.00	-37.13
164.830	-81.21	-78.35	-0.51	-2.35	-40.00	-41.21
207.510	-82.40	-83.94	4.17	-2.64	-40.00	-42.40
372.410	-76.21	-76.79	4.10	-3.52	-40.00	-36.21
411.210	-76.84	-77.21	4.06	-3.70	-40.00	-36.84
541.190	-76.24	-76.37	4.37	-4.24	-40.00	-36.24
7120.020	-50.01	-44.96	10.96	-16.01	-40.00	-10.01
10680.030	-44.05	-35.79	11.46	-19.72	-40.00	-4.05

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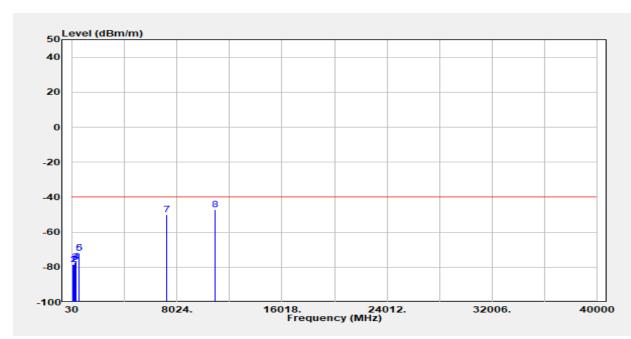
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Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode Test Date** :2025-01-23 :RedCap n48

Temp./Humi. :21.2°C/62% Test Mode :Tx

**EUT Pol** :H Plane Antenna Pol. :Vertical :Nick Lin **Test Frequency** :3625.02 MHz Engineer



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss	@3m	
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
46.490	-78.54	-64.82	-12.47	-1.25	-40.00	-38.54
183.260	-78.47	-77.77	1.77	-2.47	-40.00	-38.47
226.910	-77.16	-79.31	4.90	-2.75	-40.00	-37.16
280.260	-77.01	-77.67	3.72	-3.06	-40.00	-37.01
535.370	-72.02	-71.96	4.16	-4.22	-40.00	-32.02
560.590	-71.80	-71.90	4.43	-4.32	-40.00	-31.80
7250.040	-50.14	-44.79	10.80	-16.15	-40.00	-10.14
10875.060	-47.32	-38.54	11.15	-19.94	-40.00	-7.32

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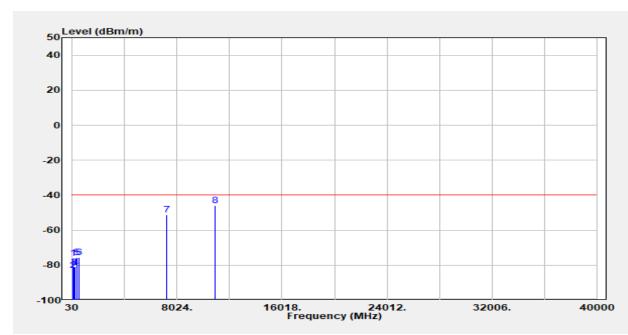
Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode Test Date** :2025-01-23 :RedCap n48

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Horizontal

**Test Frequency** :3625.02 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss	@3m	
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
45.520	-75.90	-62.05	-12.61	-1.24	<b>-</b> 40.00	<b>-</b> 35.90
92.080	-82.84	-80.23	-0.85	-1.76	<b>-</b> 40.00	-42.84
172.590	-81.25	-79.02	0.18	-2.41	-40.00	-41.25
255.040	-81.48	-82.27	3.71	-2.93	-40.00	-41.48
377.260	-75.43	-75.91	4.02	-3.55	-40.00	-35.43
573.200	-75.68	-75.40	4.08	-4.37	-40.00	-35.68
7250.040	-51.19	-45.84	10.80	-16.15	-40.00	-11.19
10875.060	-46.03	-37.24	11.15	-19.94	-40.00	-6.03

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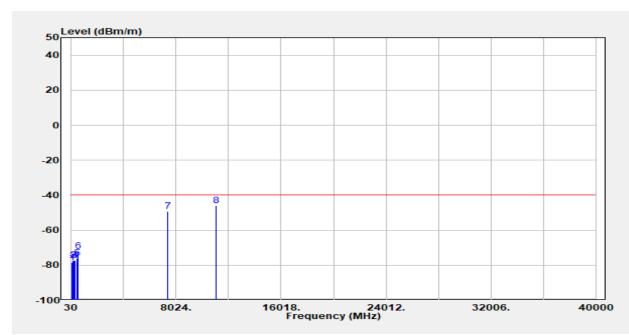
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Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode** :2025-01-23 :RedCap n48 **Test Date** Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Vertical

**Test Frequency** :3690 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss	@3m	_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
83.350	-78.37	-74.66	-2.03	-1.67	-40.00	-38.37
179.380	-77.42	-76.13	1.16	-2.45	-40.00	-37.42
232.730	-77.16	-78.70	4.32	-2.79	-40.00	-37.16
278.320	-77.07	-77.72	3.70	-3.05	-40.00	-37.07
471.350	-76.08	-76.06	3.94	-3.97	-40.00	-36.08
540.220	-71.92	-72.02	4.34	-4.24	-40.00	-31.92
7380.000	-49.37	-43.96	10.90	-16.32	-40.00	-9.37
11070.000	-45.76	-36.93	11.28	-20.11	-40.00	-5.76

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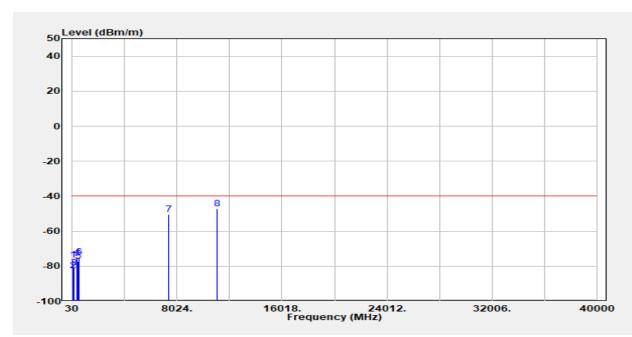
Report Number Test Site :SAC 3 :TERF2411003769ER

**Operation Mode Test Date** :2025-01-23 :RedCap n48

Test Mode :Tx Temp./Humi. :21.2°C/62%

**EUT Pol** :H Plane Antenna Pol. :Horizontal

**Test Frequency** :3690 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss	@3m	_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
46.490	-76.59	-62.87	-12.47	-1.25	<b>-</b> 40.00	-36.59
102.750	-82.54	-79.50	-1.18	-1.85	-40.00	-42.54
160.950	-80.87	-77.57	-0.98	-2.32	-40.00	-40.87
383.080	-74.75	-75.10	3.92	-3.57	-40.00	-34.75
455.830	-77.41	-77.36	3.84	-3.89	-40.00	-37.41
534.400	-74.76	-74.67	4.13	-4.22	-40.00	-34.76
7380.000	-50.35	-44.93	10.90	-16.32	-40.00	-10.35
11070.000	-47.15	-38.32	11.28	-20.11	-40.00	-7.15

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# 12 FREQUENCY STABILITY MEASUREMENT

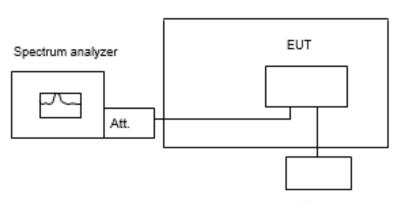
# Standard Applicabl

FCC §2.1055(a)

The frequency stability shall be sufficient to ensure that the fundamental emis sion stays within the authorized frequency band. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

## 12.2 Test Set-up





Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

#### 12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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#### 12.4 Measurement Result

Mode: LTE

ae: LIE										
Reference Freq.:	LTE B48 Mid Channel		3625.0000	MHz 10M QPSK CH 55990						
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit						
	Freq. ERROR vs. VOLTAGE									
4.37	20	3624.999996	-0.0011							
3.8	20	3624.999993	-0.0018							
3.23	20	3624.999996	-0.0012	+/- 2.5 ppm						
2.3 (End Point)	20	3625.000006	0.0016							
	Freq. ERROR vs. Temp.									
3.8	-30	3624.999999	-0.0003							
3.8	-20	3625.000002	0.0006							
3.8	-10	3624.999994	-0.0017							
3.8	0	3624.999993	-0.0019							
3.8	10	3625.000009	0.0026	+/- 2.5 ppm						
3.8	20	3625.000003	0.0007							
3.8	30	3624.999999	-0.0003							
3.8	40	3625.000006	0.0016							
3.8	50	3624.999996	-0.0011							

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Mode: 5G NR

NK خ								
		5G NR BAND n48	Part96					
Reference Freq.:		Modulation.:	CP-OFDM QPSK					
SCS.:	30	kHz	Bandwidth:	20MHz				
CH	6	41668	Freqency(MHz):	3625.02				
Freq. ERROR vs. VOLTAGE								
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit = +/- 2.5 ppm (Hz)				
4.37	20	3625.020010	0.0026					
3.8	20	3625.020008	0.0021					
3.23	20	3625.019992	-0.0023	+/- 2.5 ppm				
2.3 (End Point)	20	3625.020006	0.0017					
		Freq. ERROR vs.	Temp.					
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit = +/- 2.5 ppm (Hz)				
3.8	-30	3625.019994	-0.0017					
3.8	-20	3625.020012	0.0034					
3.8	-10	3625.020013	0.0035					
3.8	0	3625.019993	-0.0018					
3.8	10	3625.020015	0.0040	+/- 2.5 ppm				
3.8	20	3625.020012	0.0034					
3.8	30	3625.019999	-0.0004					
3.8	40	3625.019990	-0.0028					
3.8	50	3625.019997	-0.0009					

Note: The module's normal voltage is 3.8Vdc

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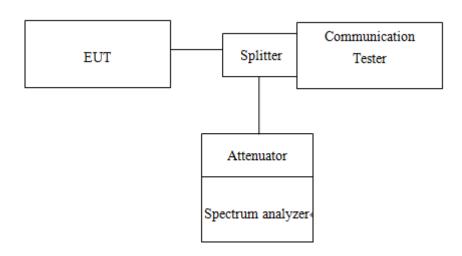
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## 13 PEAK TO AVERAGE RATIO

#### **Standard Applicable**

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

#### 13.2 Test SET-UP



#### 13.3 Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

#### 13.4 Measurement Result

Mode: LTE

LTE BAND 48									
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)			
(MHz)	CH	256QAM	Limit	(MHz)		256QAM	Limit		
3552.5	55265	8.49	13	3555.0	55290	6.39	13		
3625.0	55990	8.26	13	3625.0	55990	6.63	13		
3697.5	56715	6.98	13	3695.0	56690	7.53	13		

LTE BAND 48									
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)			
(MHz)	СП	256QAM	Limit	(MHz)		256QAM	Limit		
3557.5	55315	6.21	13	3650.0	55340	6.51	13		
3625.0	55990	6.21	13	3625.0	55990	6.60	13		
3692.5	56665	6.84	13	3690.0	56640	6.69	13		

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Mode: 5G NR

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5G NR BAND n48 Part96(3550 to 3700 MHz)									
DFT-S-OFDM_SCS 30 kHz									
Cha	nnel band	width: 10MH	Channel bandwidth: 15MHz						
Freq.	СН	PAPR (	dB)	Freq.	СН	PAPR (dB)			
(MHz)	G	256QAM	Limit	(MHz)	G	256QAM	Limit		
3555.00	637000	6.60	13	3557.52	637168	6.79	13		
3625.02	641668	6.66	13	3625.02	641668	6.71	13		
3694.98	646332	6.50	13	3692.49	646166	6.96	13		
	5G NR BAND n48 Parl96(3550 to 3700 MHz)								
DFT-S-OFDM_SCS 30 kHz									
Channel bandwidth: 20MHz									
Freq.	СН	PAPR (	dB)						
(MHz)	СП	256QAM	Limit		$\setminus$	$\setminus$			
3560.01	637334	6.36	13						
3625.02	641668	6.64	13						
3690.00	646000	6.70	13						

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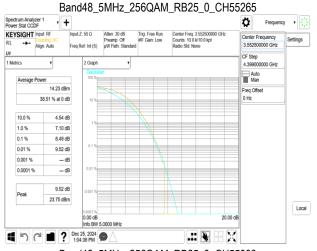
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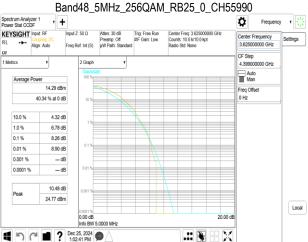


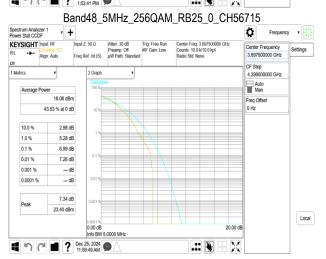
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#### Mode: LTE

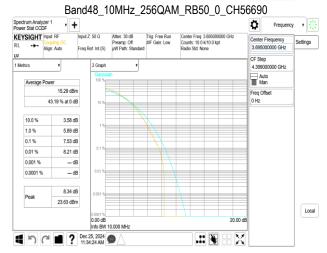












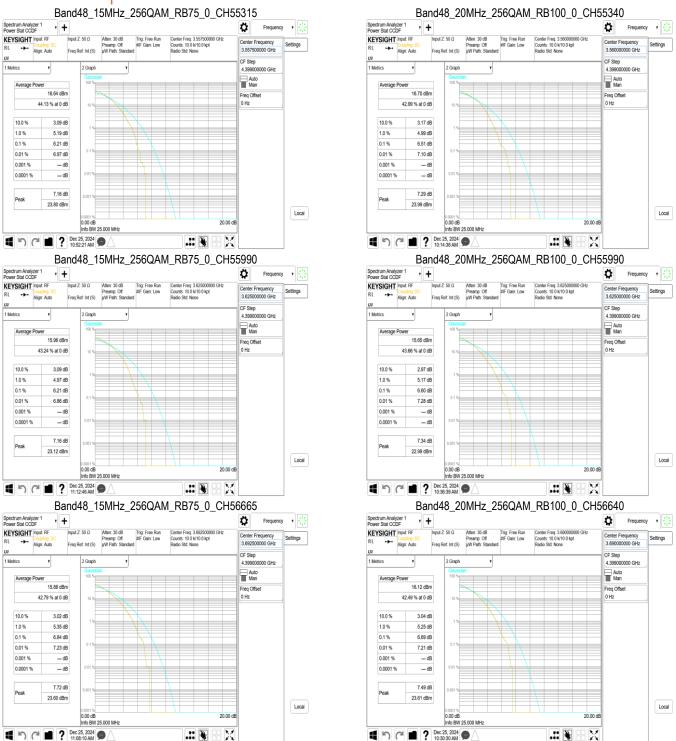
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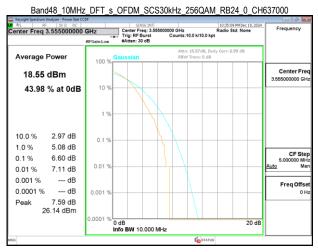
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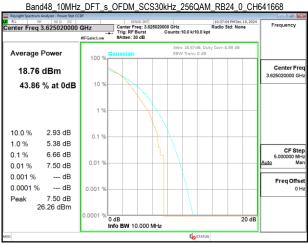


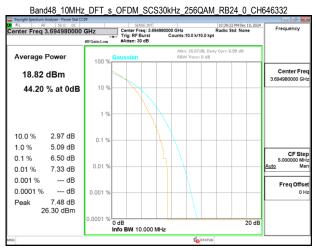
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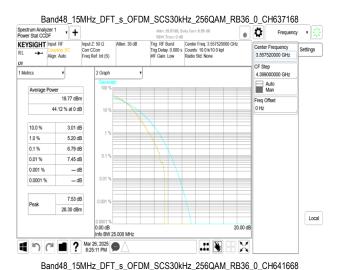


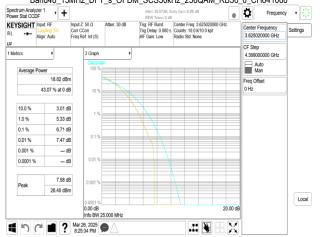
Mode: 5G NR

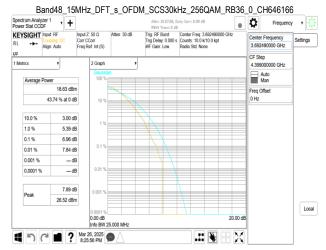












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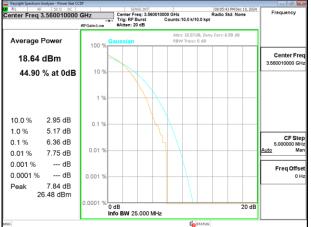
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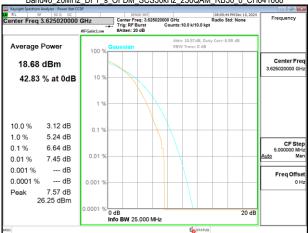


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Band48\_20MHz\_DFT\_s\_OFDM\_SCS30kHz\_256QAM\_RB50\_0\_CH641668



Band48 20MHz DFT s OFDM SCS30kHz 256QAM RB50 0 CH646000



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# 14 PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

## 15 PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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