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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

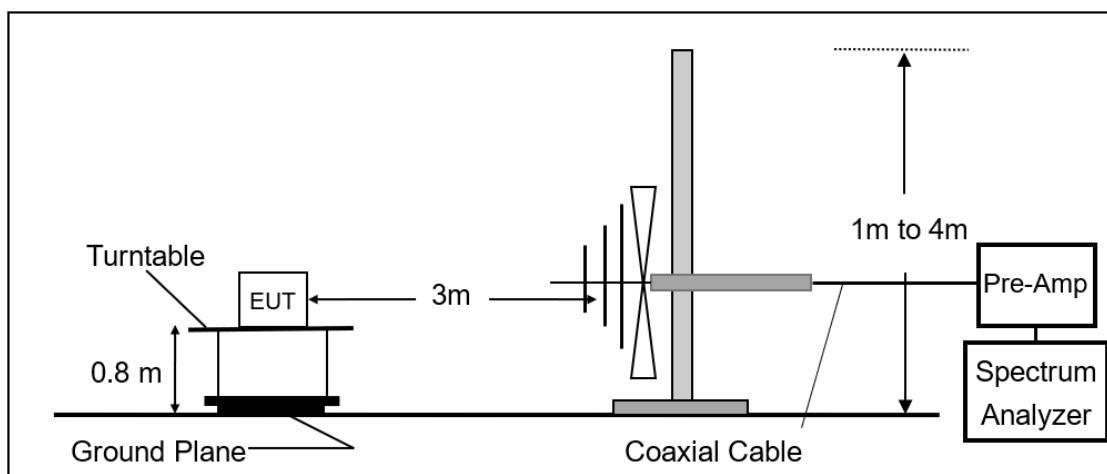
11.1 Standard Applicable

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

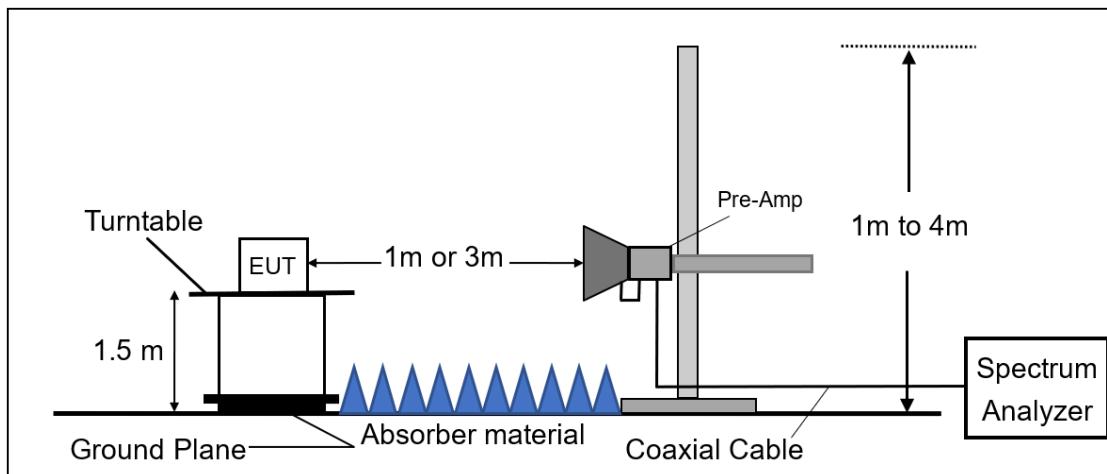
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

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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11.3 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.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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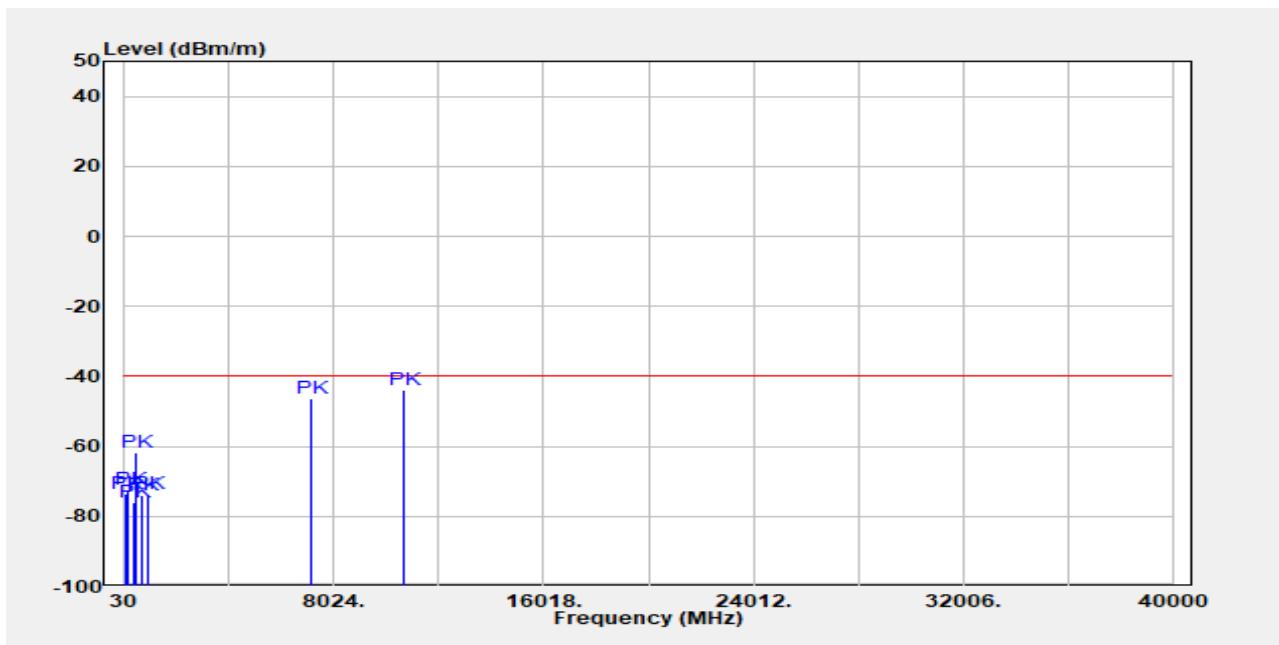
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11.4 Measurement Result:

LTE

Report Number	:TERF2503001152ER	Test Site	:SAC 1
Operation Mode	:LTE B48	Test Date	:2025-05-20
Test Mode	:Tx	Temp./Humi.	:21.6°C/48%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3560 MHz	Engineer	:WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-73.41	-61.15	-10.90	-1.36	-40.00	-33.41
190.05	-72.52	-72.76	2.77	-2.52	-40.00	-32.52
353.98	-76.12	-76.95	4.26	-3.43	-40.00	-36.12
483.96	-61.79	-61.85	4.07	-4.02	-40.00	-21.79
699.30	-74.15	-73.21	3.87	-4.82	-40.00	-34.15
883.60	-73.76	-71.77	3.43	-5.41	-40.00	-33.76
7120.00	-46.15	-41.24	11.10	-16.01	-40.00	-6.15
10680.00	-43.85	-35.48	11.36	-19.72	-40.00	-3.85

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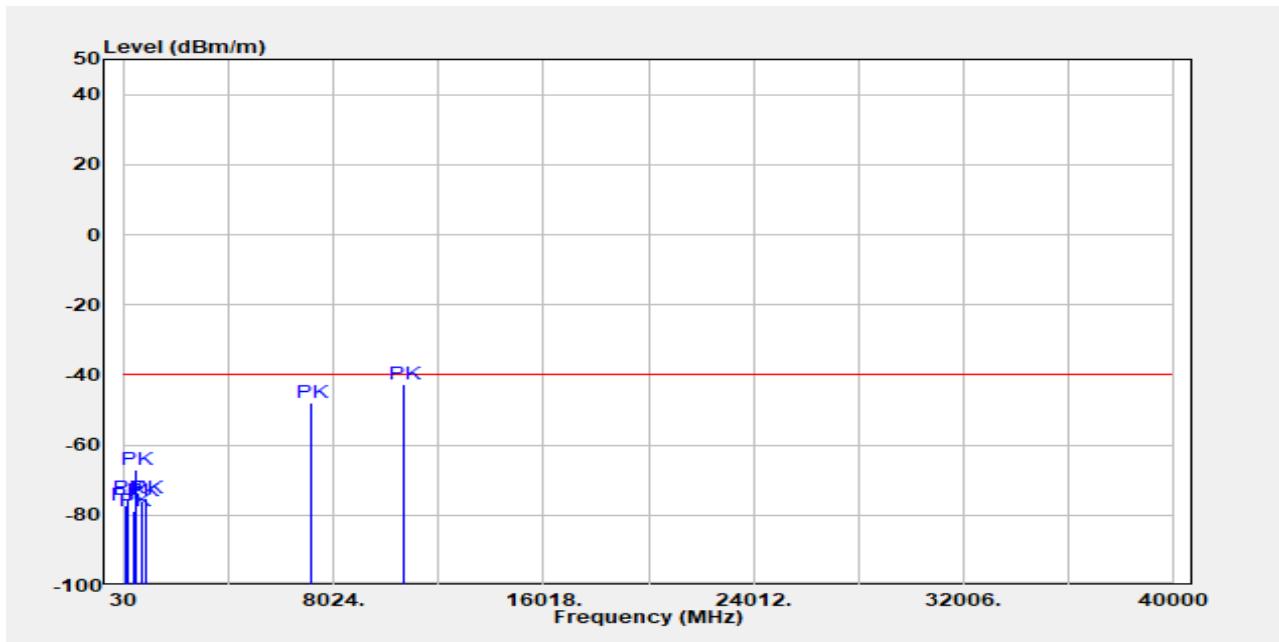
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Report Number :TERF2503001152ER Test Site :SAC 1
 Operation Mode :LTE B48 Test Date :2025-05-20
 Test Mode :Tx Temp./Humi. :21.6°C/48%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :3560 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-77.14	-63.21	-12.72	-1.21	-40.00	-37.14
161.92	-75.37	-72.20	-0.84	-2.33	-40.00	-35.37
358.83	-79.02	-79.79	4.23	-3.45	-40.00	-39.02
475.23	-66.93	-66.96	4.01	-3.98	-40.00	-26.93
688.63	-76.16	-75.24	3.87	-4.78	-40.00	-36.16
870.99	-75.01	-73.19	3.56	-5.37	-40.00	-35.01
7120.00	-47.94	-43.03	11.10	-16.01	-40.00	-7.94
10680.00	-42.88	-34.52	11.36	-19.72	-40.00	-2.88

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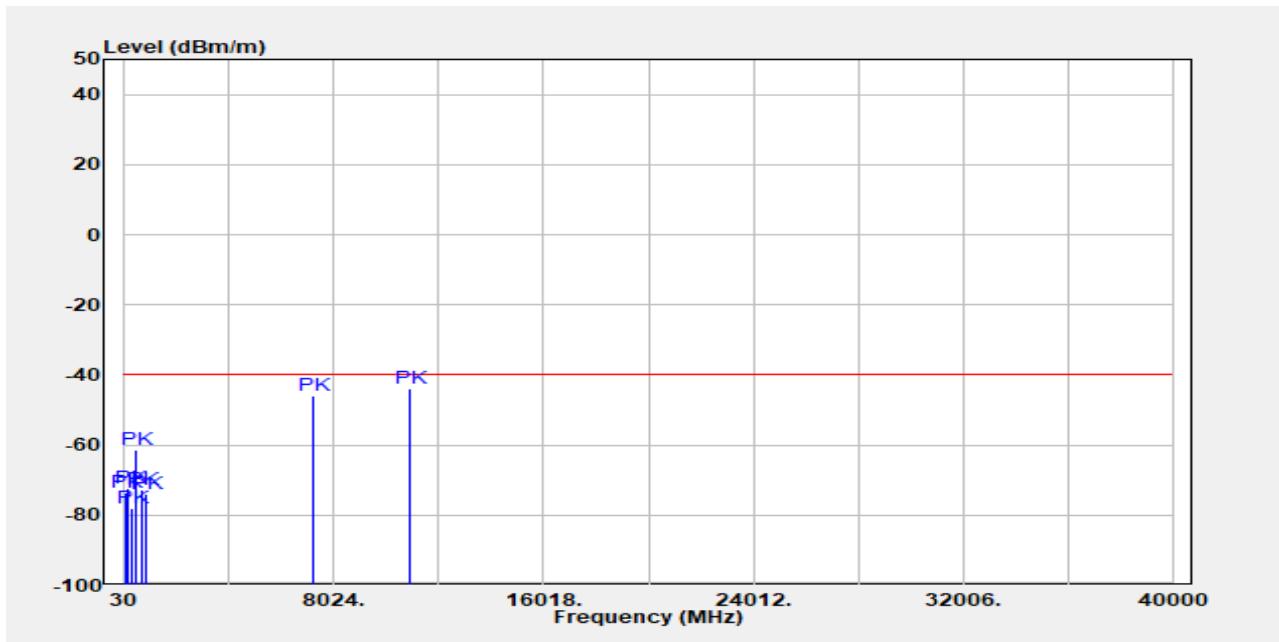
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Report Number :TERF2503001152ER Test Site :SAC 1
 Operation Mode :LTE B48 Test Date :2025-05-20
 Test Mode :Tx Temp./Humi. :21.6°C/48%
 EUT Pol :H Plane Antenna Pol. :Vertical
 Test Frequency :3625 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-73.72	-59.17	-13.43	-1.12	-40.00	-33.72
188.11	-72.30	-72.27	2.48	-2.51	-40.00	-32.30
310.33	-78.12	-78.72	3.81	-3.21	-40.00	-38.12
487.84	-61.44	-61.44	4.03	-4.03	-40.00	-21.44
684.75	-72.66	-71.79	3.90	-4.77	-40.00	-32.66
822.49	-73.93	-72.19	3.48	-5.23	-40.00	-33.93
7250.00	-45.76	-40.51	10.90	-16.15	-40.00	-5.76
10875.00	-43.76	-34.98	11.15	-19.94	-40.00	-3.76

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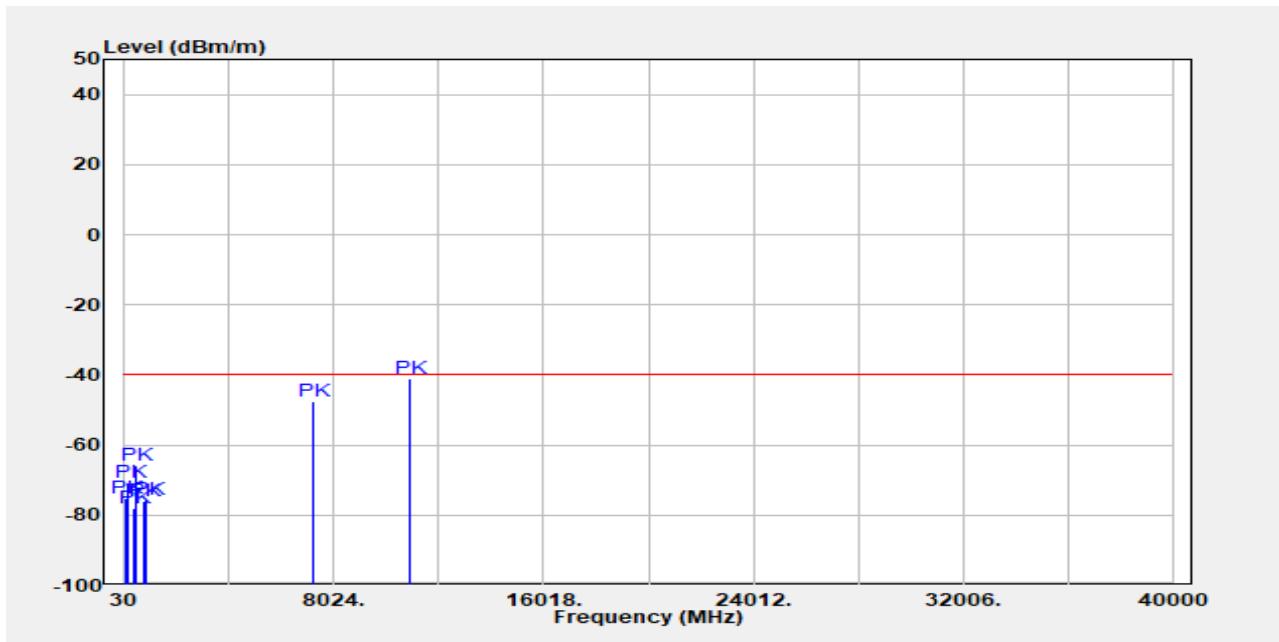
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Report Number :TERF2503001152ER Test Site :SAC 1
 Operation Mode :LTE B48 Test Date :2025-05-20
 Test Mode :Tx Temp./Humi. :21.6°C/48%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :3625 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-75.24	-61.04	-13.03	-1.17	-40.00	-35.24
188.11	-70.74	-70.71	2.48	-2.51	-40.00	-30.74
361.74	-77.86	-78.60	4.22	-3.47	-40.00	-37.86
484.93	-65.82	-65.89	4.09	-4.02	-40.00	-25.82
744.89	-76.13	-74.68	3.52	-4.96	-40.00	-36.13
880.69	-75.69	-73.75	3.46	-5.40	-40.00	-35.69
7250.00	-47.58	-42.33	10.90	-16.15	-40.00	-7.58
10875.00	-41.07	-32.28	11.15	-19.94	-40.00	-1.07

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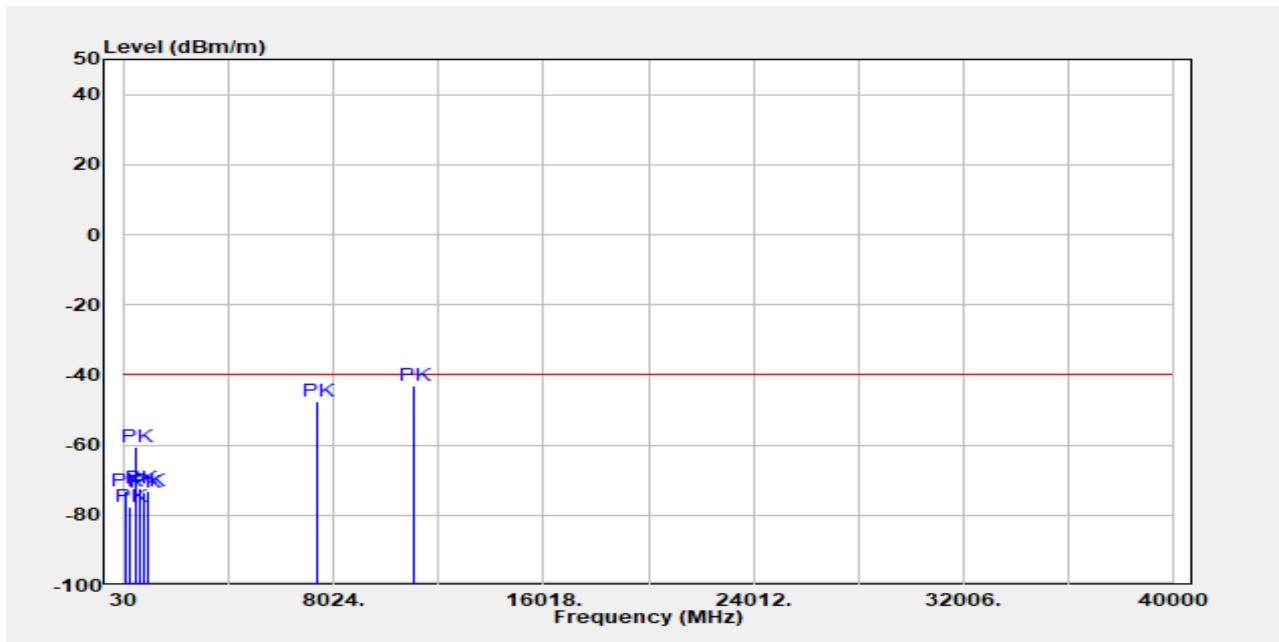
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Report Number :TERF2503001152ER Test Site :SAC 1
 Operation Mode :LTE B48 Test Date :2025-05-20
 Test Mode :Tx Temp./Humi. :21.6°C/48%
 EUT Pol :H Plane Antenna Pol. :Vertical
 Test Frequency :3690 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-73.33	-58.78	-13.43	-1.12	-40.00	-33.33
245.34	-77.61	-78.41	3.66	-2.86	-40.00	-37.61
483.96	-60.51	-60.57	4.07	-4.02	-40.00	-20.51
622.67	-72.54	-71.65	3.67	-4.55	-40.00	-32.54
743.92	-73.62	-72.19	3.53	-4.96	-40.00	-33.62
908.82	-73.02	-70.80	3.27	-5.50	-40.00	-33.02
7380.00	-47.66	-42.36	11.02	-16.32	-40.00	-7.66
11070.00	-43.04	-34.25	11.32	-20.11	-40.00	-3.04

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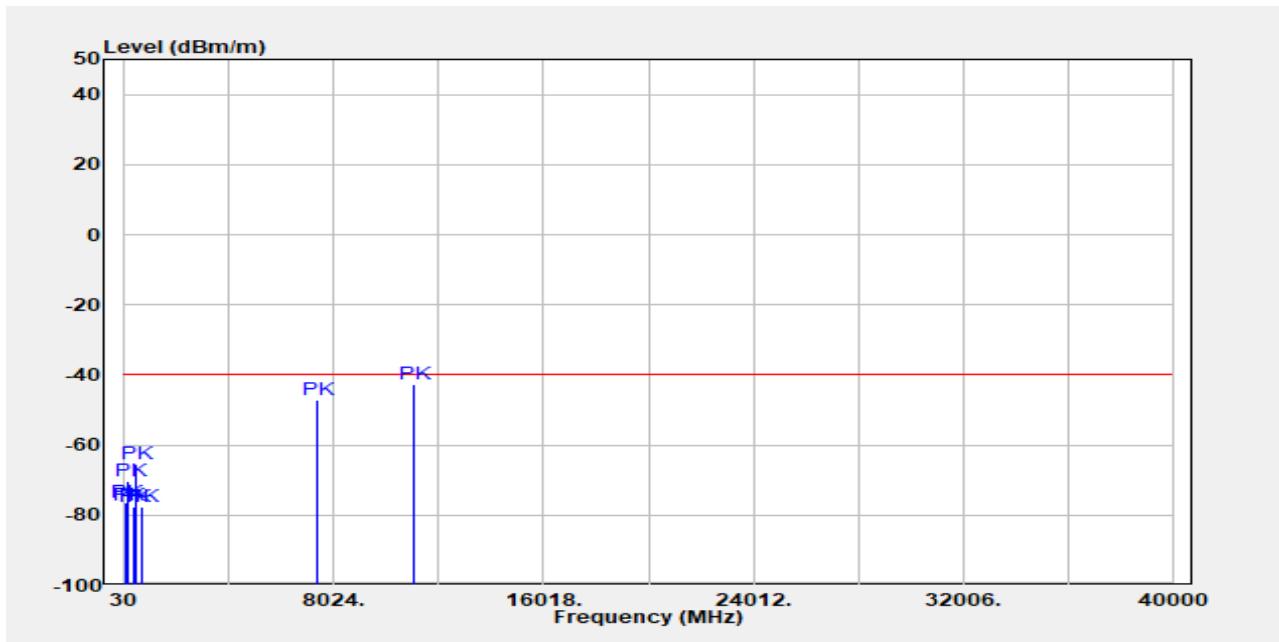
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Report Number :TERF2503001152ER Test Site :SAC 1
 Operation Mode :LTE B48 Test Date :2025-05-20
 Test Mode :Tx Temp./Humi. :21.6°C/48%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :3690 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-76.38	-62.17	-13.02	-1.18	-40.00	-36.38
115.36	-77.40	-73.95	-1.48	-1.97	-40.00	-37.40
189.08	-70.28	-70.39	2.62	-2.51	-40.00	-30.28
407.33	-77.83	-78.14	3.98	-3.68	-40.00	-37.83
483.96	-65.61	-65.66	4.07	-4.02	-40.00	-25.61
722.58	-77.71	-76.48	3.66	-4.89	-40.00	-37.71
7380.00	-47.04	-41.75	11.02	-16.32	-40.00	-7.04
11070.00	-42.54	-33.76	11.32	-20.11	-40.00	-2.54

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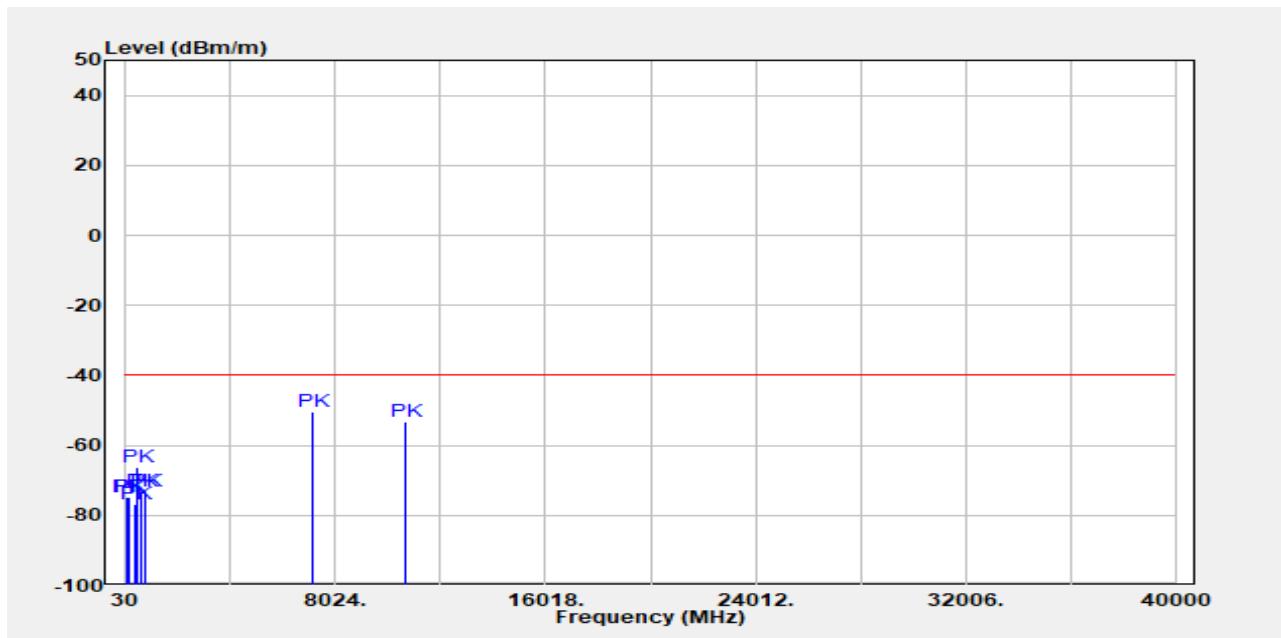
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NR

Report Number :TERF2503001152ER Test Site :SAC 2
Operation Mode :NR n48 Test Date :2025-05-29
Test Mode :Tx Temp./Humi. :23.1°C/58%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3560.01 MHz Engineer :Bob Chao



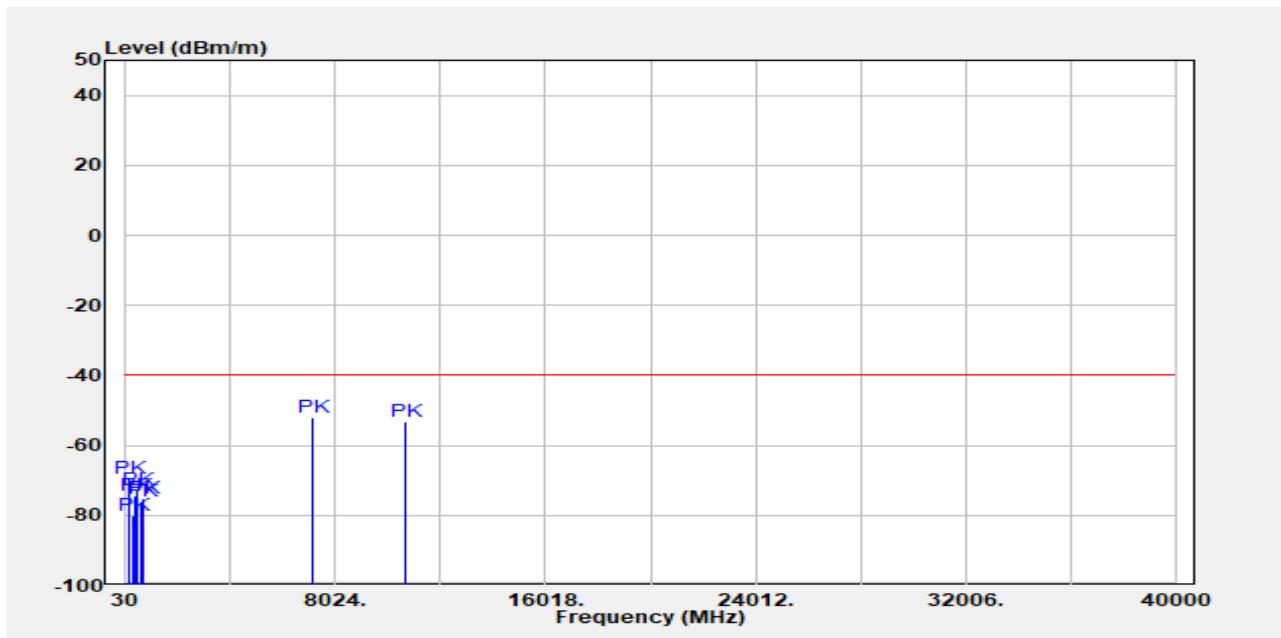
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.903	-74.96	7.17	-12.59	-1.21	-40.00	-34.96
178.087	-74.67	-2.54	1.00	-2.44	-40.00	-34.67
362.710	-76.96	-3.48	4.22	-3.47	-40.00	-36.96
493.013	-66.13	-1.09	3.97	-4.05	-40.00	-26.13
625.903	-73.28	3.77	3.69	-4.56	-40.00	-33.28
750.387	-73.31	5.38	3.58	-4.98	-40.00	-33.31
7120.020	-50.60	-45.65	11.06	-16.01	-40.00	-10.60
10680.030	-53.17	-44.87	11.42	-19.72	-40.00	-13.17

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Report Number :TERF2503001152ER Test Site :SAC 2
Operation Mode :NR n48 Test Date :2025-05-29
Test Mode :Tx Temp./Humi. :23.1°C/58%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3560.01 MHz Engineer :Bob Chao



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
181.320	-69.72	-68.73	1.48	-2.46	-40.00	-29.72
298.043	-79.92	-80.58	3.80	-3.15	-40.00	-39.92
374.027	-74.42	-74.97	4.08	-3.53	-40.00	-34.42
492.690	-72.61	-72.54	3.97	-4.05	-40.00	-32.61
586.780	-76.02	-75.41	3.81	-4.42	-40.00	-36.02
666.967	-75.17	-74.37	3.90	-4.71	-40.00	-35.17
7120.020	-51.92	-46.97	11.06	-16.01	-40.00	-11.92
10680.030	-53.12	-44.82	11.42	-19.72	-40.00	-13.12

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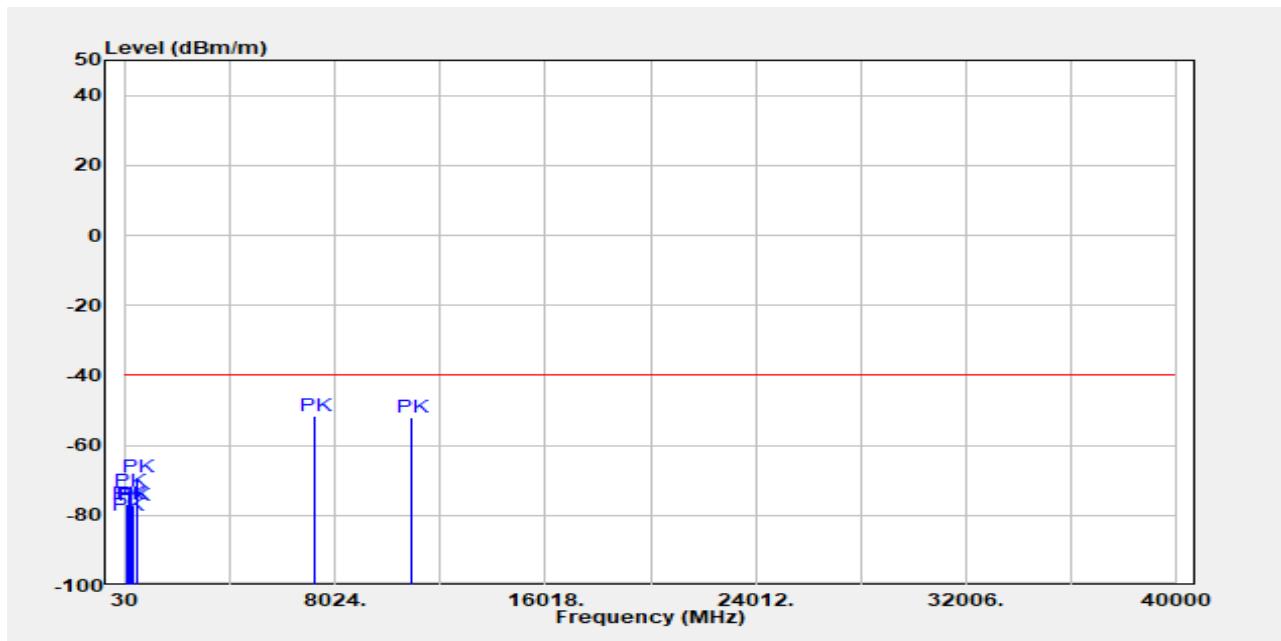
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Report Number :TERF2503001152ER Test Site :SAC 2
Operation Mode :NR n48 Test Date :2025-05-29
Test Mode :Tx Temp./Humi. :23.1°C/58%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3625.02 MHz Engineer :Bob Chao



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.543	-76.70	-64.45	-10.88	-1.37	-40.00	-36.70
100.163	-79.92	-77.03	-1.05	-1.83	-40.00	-39.92
174.207	-73.10	-71.17	0.48	-2.42	-40.00	-33.10
247.603	-76.97	-77.75	3.65	-2.88	-40.00	-36.97
316.797	-77.34	-77.89	3.80	-3.25	-40.00	-37.34
475.230	-68.91	-68.94	4.01	-3.98	-40.00	-28.91
7250.040	-51.59	-46.34	10.90	-16.15	-40.00	-11.59
10875.060	-52.03	-43.24	11.15	-19.94	-40.00	-12.03

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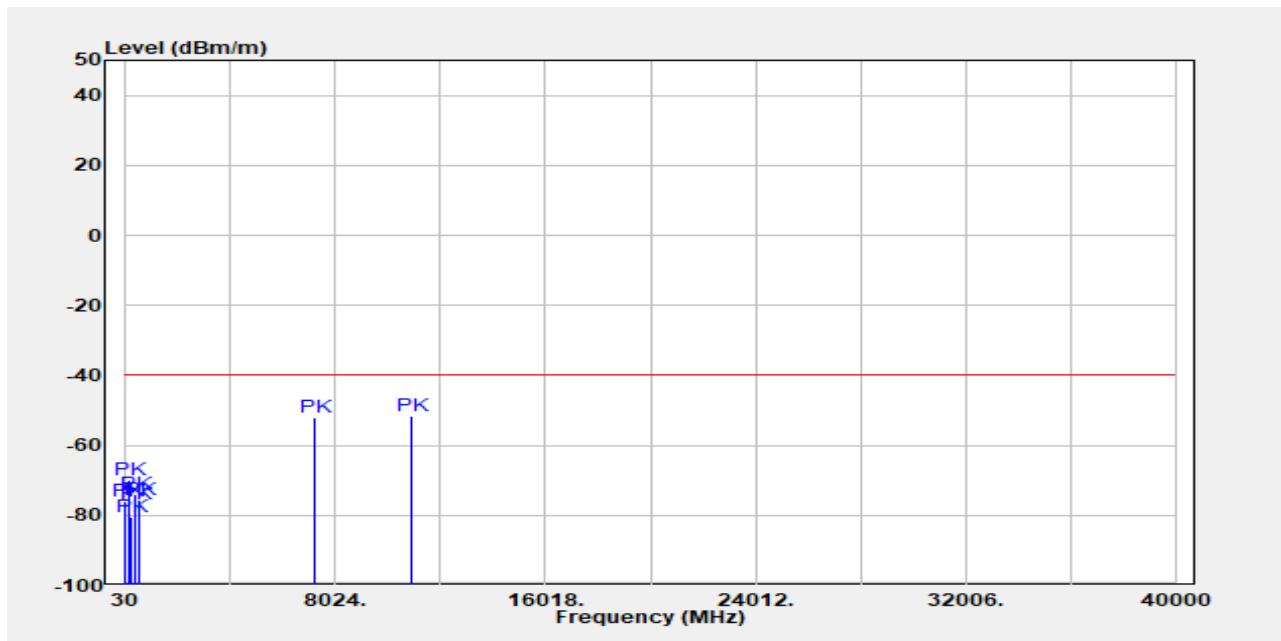
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Report Number :TERF2503001152ER Test Site :SAC 2
Operation Mode :NR n48 Test Date :2025-05-29
Test Mode :Tx Temp./Humi. :23.1°C/58%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3625.02 MHz Engineer :Bob Chao



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-76.15	15.49	-13.59	-1.09	-40.00	-36.15
181.967	-69.73	-6.57	1.57	-2.46	-40.00	-29.73
251.807	-80.55	-9.57	3.67	-2.90	-40.00	-40.55
380.170	-74.18	-3.12	3.98	-3.56	-40.00	-34.18
411.533	-76.72	-3.23	4.07	-3.70	-40.00	-36.72
547.333	-75.69	-0.73	4.55	-4.27	-40.00	-35.69
7250.040	-52.16	-46.91	10.90	-16.15	-40.00	-12.16
10875.060	-51.79	-43.01	11.15	-19.94	-40.00	-11.79

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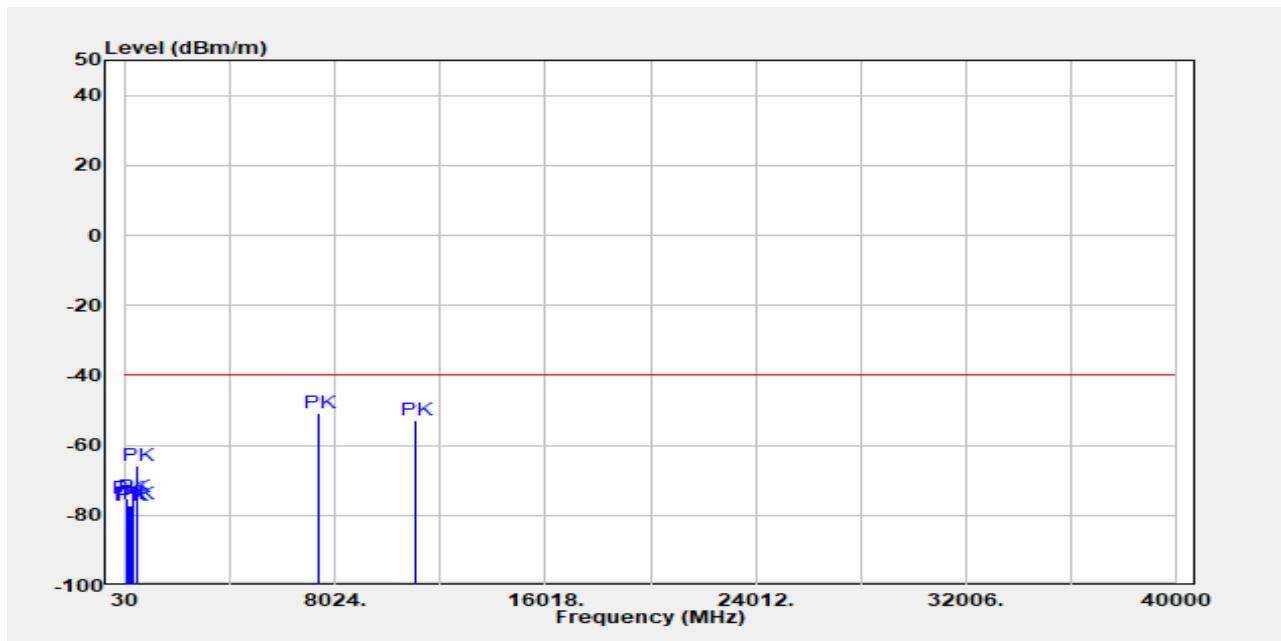
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Report Number :TERF2503001152ER Test Site :SAC 2
Operation Mode :NR n48 Test Date :2025-05-29
Test Mode :Tx Temp./Humi. :23.1°C/58%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3690 MHz Engineer :Bob Chao



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.903	-75.04	-61.23	-12.59	-1.21	-40.00	-35.04
166.123	-77.42	-74.55	-0.51	-2.36	-40.00	-37.42
243.400	-77.31	-78.13	3.67	-2.85	-40.00	-37.31
305.803	-74.95	-75.63	3.86	-3.19	-40.00	-34.95
422.850	-76.64	-76.97	4.09	-3.75	-40.00	-36.64
491.720	-66.00	-65.93	3.98	-4.05	-40.00	-26.00
7380.000	-50.73	-45.24	10.82	-16.32	-40.00	-10.73
11070.000	-52.75	-43.93	11.28	-20.11	-40.00	-12.75

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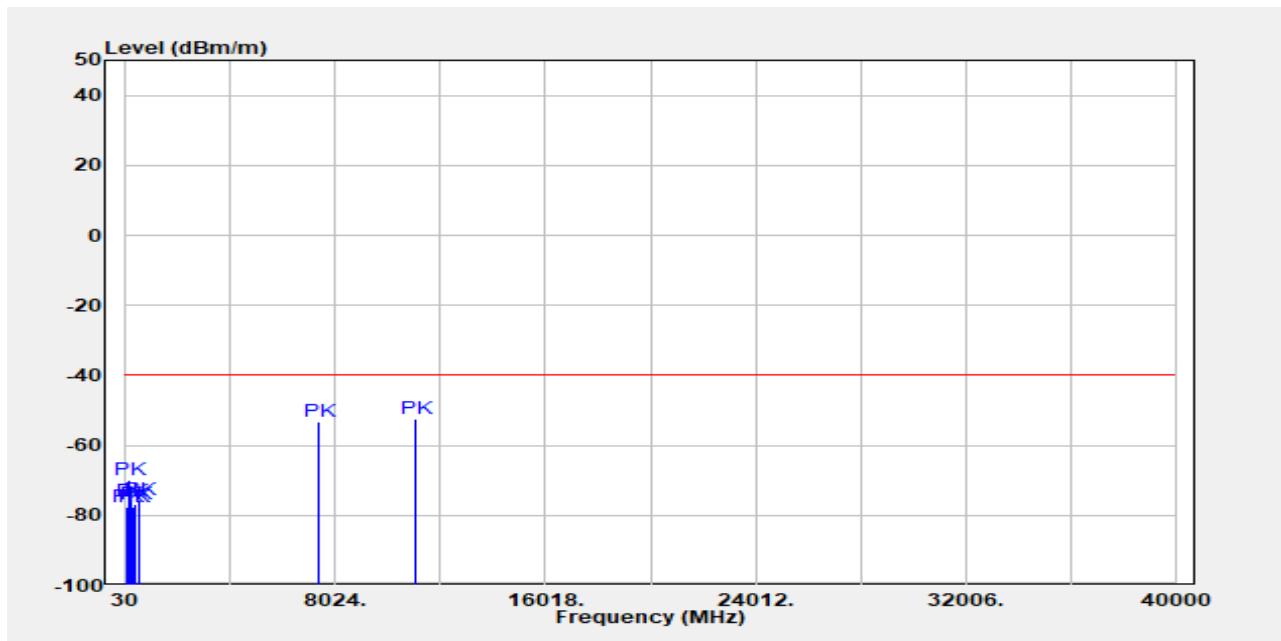
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Report Number :TERF2503001152ER Test Site :SAC 2
Operation Mode :NR n48 Test Date :2025-05-29
Test Mode :Tx Temp./Humi. :23.1°C/58%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3690 MHz Engineer :Bob Chao



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
77.207	-77.73	-72.03	-4.08	-1.61	-40.00	-37.73
172.913	-69.86	-67.67	0.23	-2.41	-40.00	-29.86
213.330	-76.09	-77.88	4.46	-2.67	-40.00	-36.09
320.030	-77.65	-78.26	3.88	-3.27	-40.00	-37.65
402.803	-76.76	-77.02	3.93	-3.66	-40.00	-36.76
549.920	-75.80	-76.11	4.59	-4.28	-40.00	-35.80
7380.000	-53.07	-47.57	10.82	-16.32	-40.00	-13.07
11070.000	-52.56	-43.73	11.28	-20.11	-40.00	-12.56

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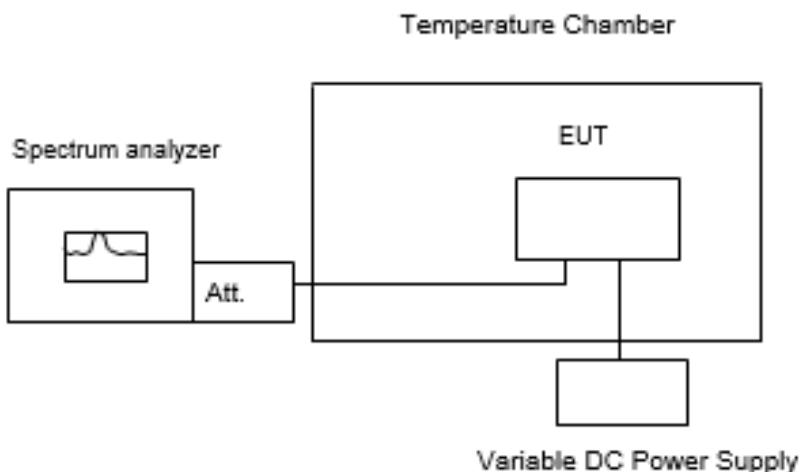
12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicable

FCC §2.1055(a)

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5 \text{ ppm}$) of the center frequency.

12.2 Test Set-up



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

LTE

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	3625.000005	0.0012	+/- 2.5 ppm
3.8	20	3624.999989	-0.0030	
3.23	20	3624.999997	-0.0008	
2.4	20	3625.000009	0.0026	
(End Point)				
Freq. ERROR vs. Temp.				
3.8	-30	3624.999999	-0.0002	+/- 2.5 ppm
3.8	-20	3624.999997	-0.0009	
3.8	-10	3625.000007	0.0018	
3.8	0	3624.999991	-0.0025	
3.8	10	3624.999996	-0.0011	
3.8	20	3625.000013	0.0036	
3.8	30	3625.000001	0.0003	
3.8	40	3624.999990	-0.0027	
3.8	50	3624.999991	-0.0025	

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NR

5G NR BAND n48 Part96				
Reference Freq.:		Modulation.:		CP-OFDM QPSK
SCS.:	30 kHz	Bandwidth:		20MHz
CH	641668	Frequency(MHz):		3625.02
Freq. ERROR vs. VOLTAGE				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
4.37	20	3625.020004	0.0011	+/- 2.5 ppm
3.8	20	3625.020009	0.0025	
3.23	20	3625.019999	-0.0002	
2.2 (End Point)	20	3625.019997	-0.0009	
Freq. ERROR vs. Temp.				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
3.8	-30	3625.020004	0.0012	+/- 2.5 ppm
3.8	-20	3625.019998	-0.0006	
3.8	-10	3625.020000	0.0001	
3.8	0	3625.020002	0.0005	
3.8	10	3625.020001	0.0002	
3.8	20	3625.020002	0.0005	
3.8	30	3625.019996	-0.0012	
3.8	40	3625.019994	-0.0015	
3.8	50	3625.019996	-0.0011	

Note: The module's normal voltage is 3.8Vdc.

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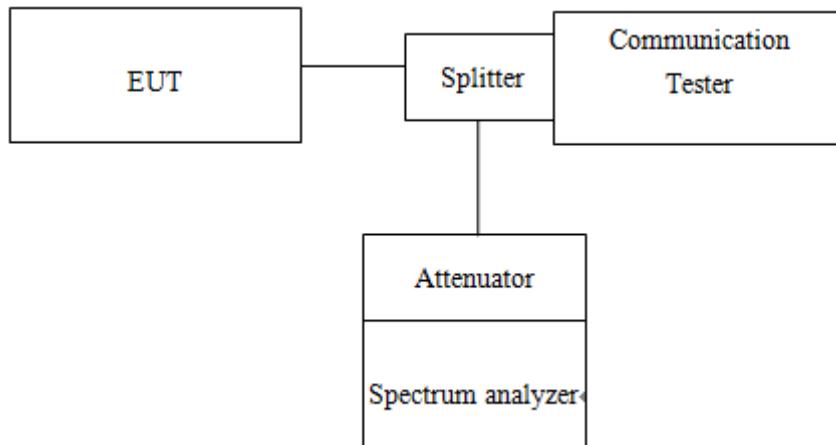
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13 PEAK TO AVERAGE RATIO

13.1 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 \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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13.4 Measurement Result

LTE

LTE BAND 48							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3552.5	55265	6.72	13	3555.0	55290	6.63	13
3625.0	55990	6.68	13	3625.0	55990	6.66	13
3697.5	56715	7.02	13	3695.0	56690	6.67	13

LTE BAND 48							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3557.5	55315	7.19	13	3650.0	55340	7.09	13
3625.0	55990	6.95	13	3625.0	55990	6.49	13
3692.5	56665	6.97	13	3690.0	56640	7.02	13

NR

5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 10MHz				Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3555.00	637000	6.59	13	3557.52	637168	6.95	13
3625.02	641668	7.19	13	3625.02	641668	7.02	13
3694.98	646332	6.52	13	3692.49	646166	6.71	13

5G NR BAND n48 Part96(3550 to 3700 MHz)			
DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3560.01	637334	6.71	13
3625.02	641668	6.70	13
3690.00	646000	6.66	13

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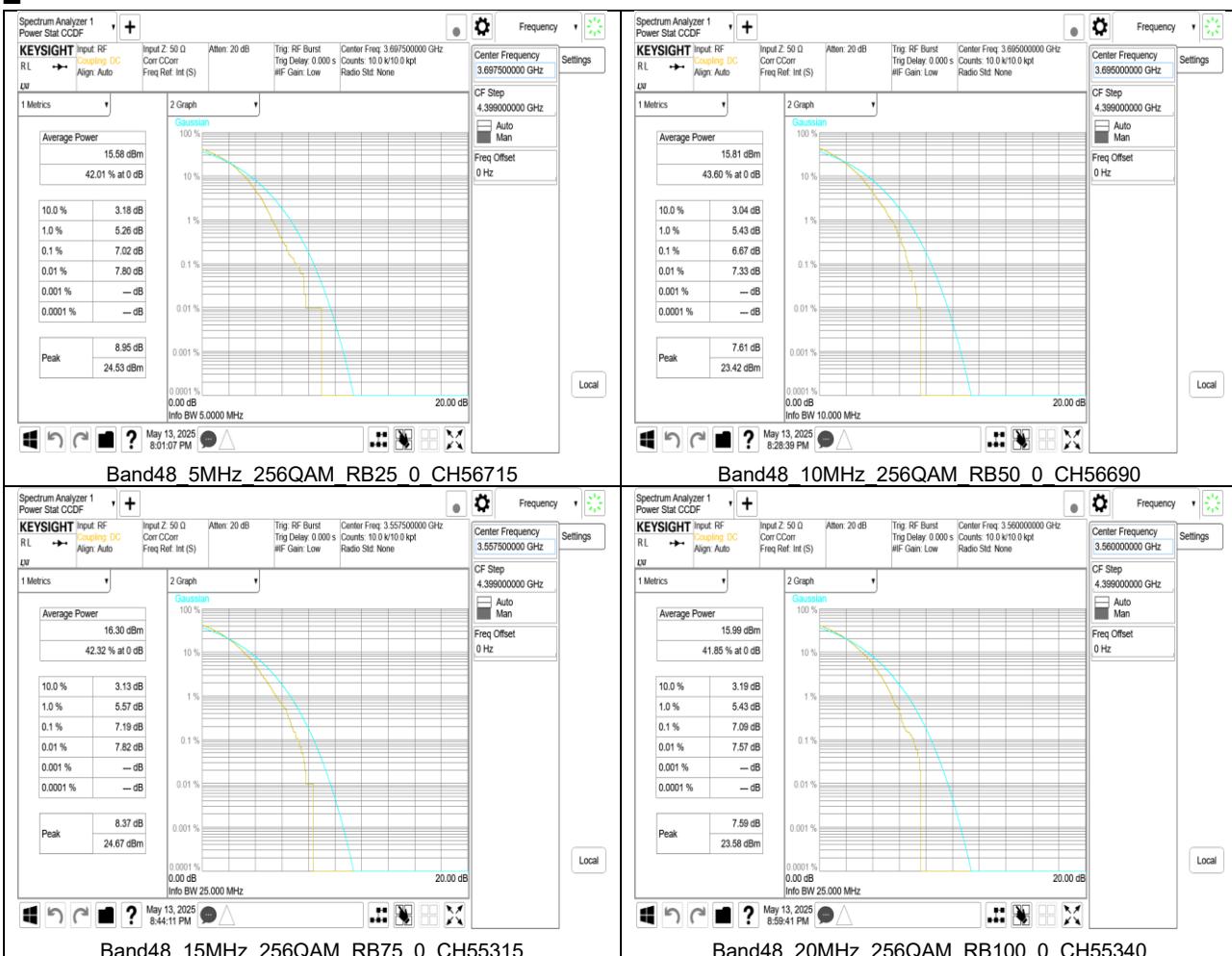
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LTE



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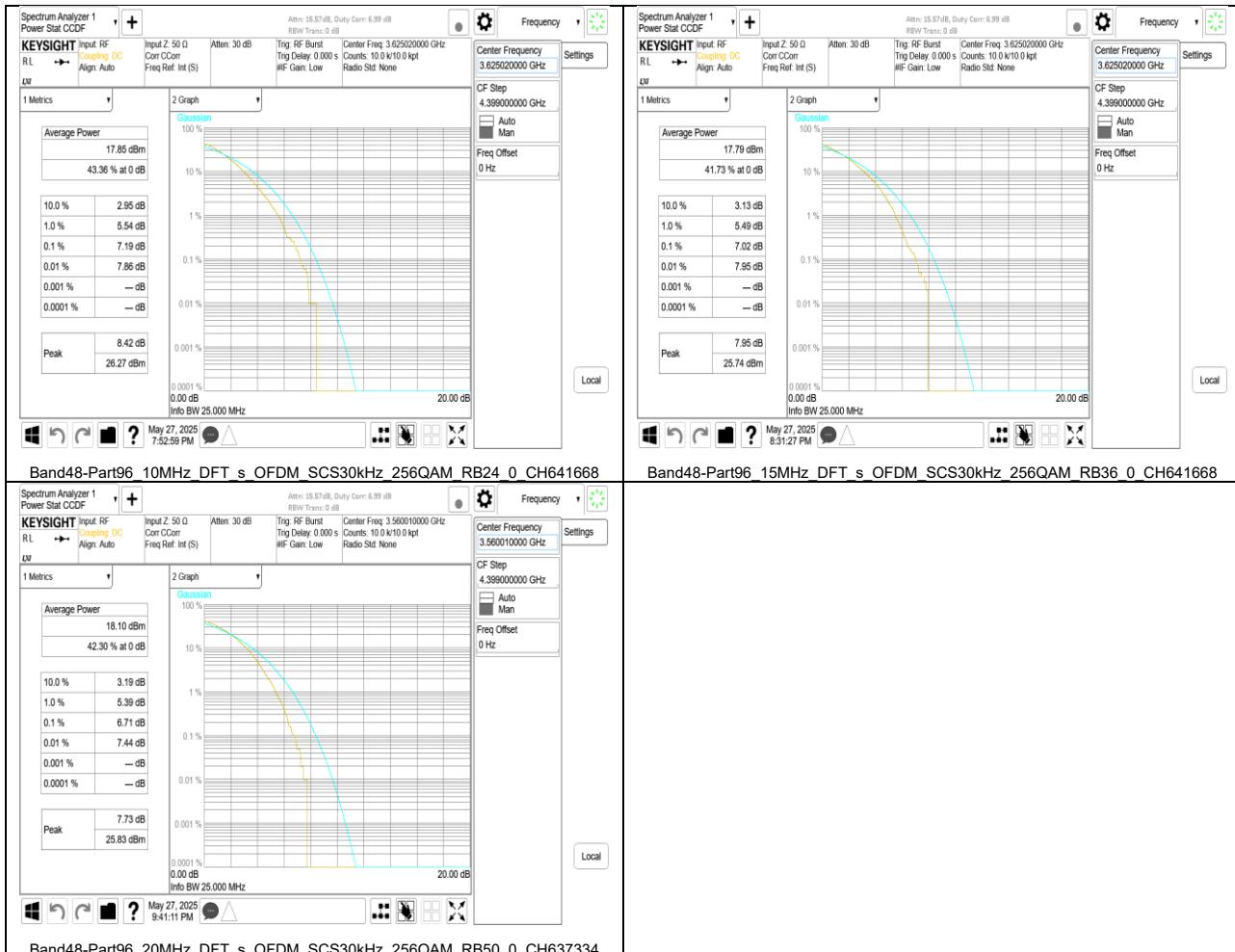
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14 PHOTOGRAPHS OF SET UP

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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