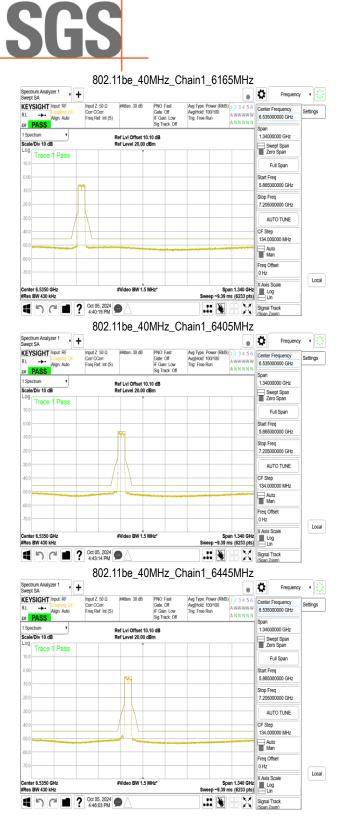
# Report No.: TERF2407002111ER Page: 165 of 426





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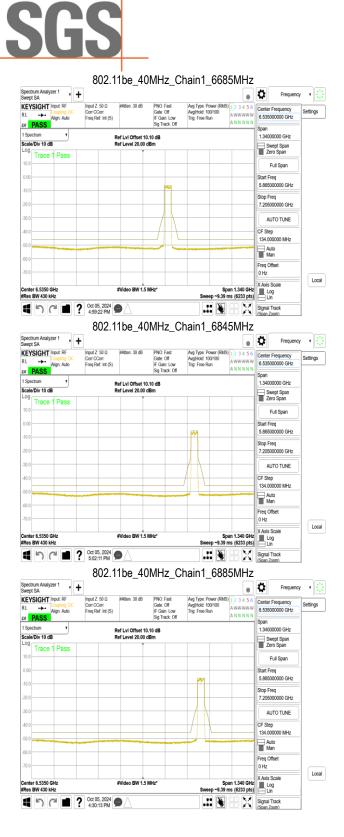
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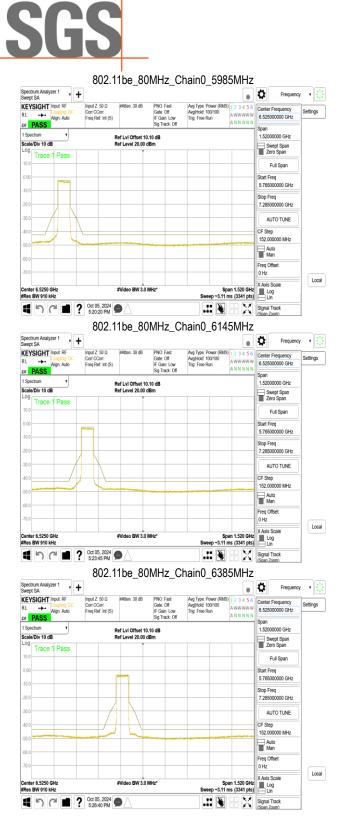
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802.11be 80MHz Chain0 6465MHz Spectrum Analyzer 1 , + Frequency . Ö • KEYSIGHT Input: RF wt Z<sup>-</sup> 50 0 - 10 dB PNO: Fas Corr CCorr Freq Ref: Int (S) Settings • 6 525000000 GH Vign: Auto PASS .52000000 GH 1 Spectrum Ref Lvi Offset 10.10 dB Ref Level 20.00 dBm Scale/Div 10 dB Swept Span Trace 1 Pass Full Span 0.00 Start Freq 5.76500000 GHz Stop Freq 7.285000000 GHz AUTO TUNE 40.0 CF Step 152.000000 MHz Auto Man 60.0 Freq Offse 0 Hz Local Span 1.520 GHz Sweep ~3.11 ms (3341 pts) X Axis Scal Center 6.5250 GH #Res BW 910 kHz Signal Track (Span Zoom) 802.11be\_80MHz\_Chain0\_6545MHz Spectrum Analyzer 1 v + Frequency • Ö . KEYSIGHT Input: RF nput Ζ: 50 Ω #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: O Avg Type: Settings Avg|Hold: 100/100 Trig: Free Run UT PASS Corr CCorr Freq Ref: Int (S) 6.525000000 GHz 1 Spectrum 1.52000000 GHz Ref Lvi Offset 10.10 dB Scale/Div 10 dB Swept Span Zero Span Trace 1 Pass Full Span 0.00 Start Freq 5.765000000 GHz Stop Freq 7.285000000 GHz AUTO TUNE 40.0 CF Step 152.000000 MHz Auto Man Freq Offset 0 Hz Local X Axis Scale Span 1.520 GHz Sweep ~3.11 ms (3341 pts) or 6 5250 GH DIA 2 0 MIL #Res BW 910 kHz Signal Track € <sup>Oct 05, 2024</sup> 802.11be\_80MHz\_Chain0\_6625MHz Spectrum Analyzer 1 v • 🗘 Frequency v KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freg Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Lo Avg Type: Power (RMS) 1 2 3 4 5 Avg|Hold: 100/100 Trig: Free Run Center Fred Settings Align: Auto 6.525000000 GHz 1 Spectrum 1.52000000 GHz Ref Lvi Offset 10.10 dE Ref Level 20.00 dBm Scale/Div 10 dB Swept Span Zero Span Trace 1 Pass Full Span Start Freq 5.765000000 GHz Stop Freq 7.285000000 GHz AUTO TUNE 40.0 CF Step 152.000000 MHz Auto Man 60.0 Freq Offse 0 Hz Local X Axis Scale Center 6.5250 GH #Res BW 910 kHz Span 1.520 GHz Sweep ~3.11 ms (3341 pts) Signal Track (Span Zoom) 📲 🖒 (° 🔳 ? Oct 05, 2024 5:32:34 PM

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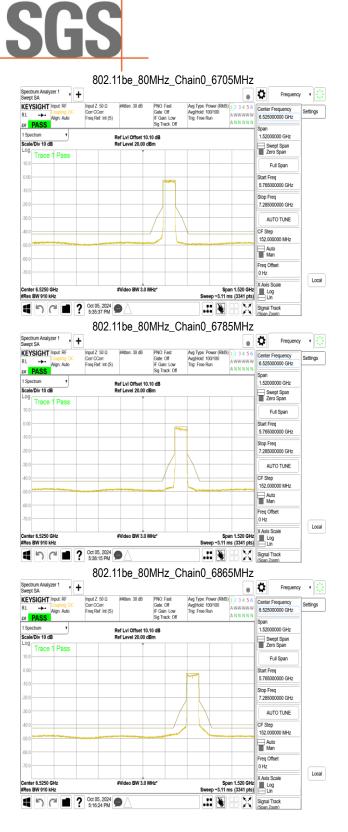
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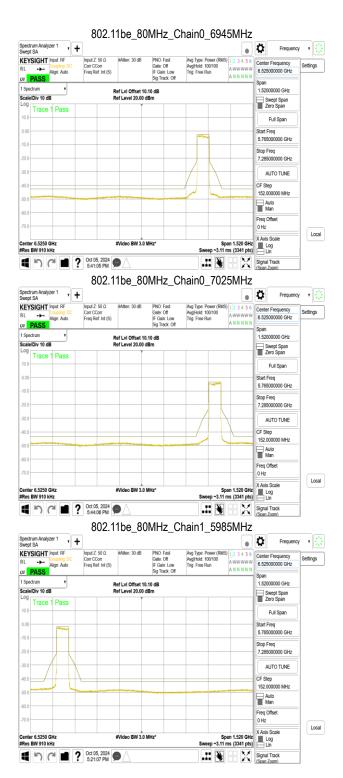
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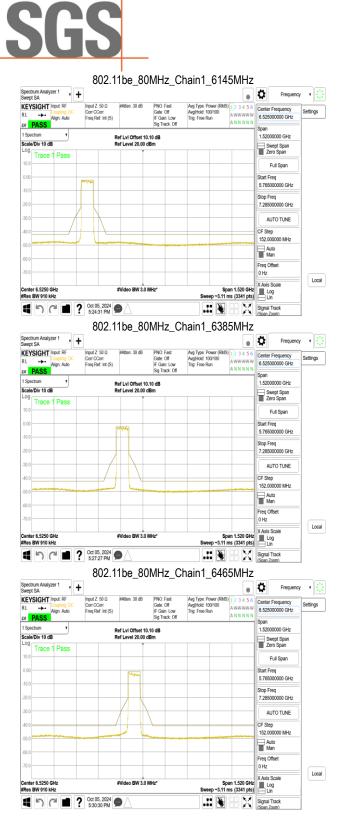
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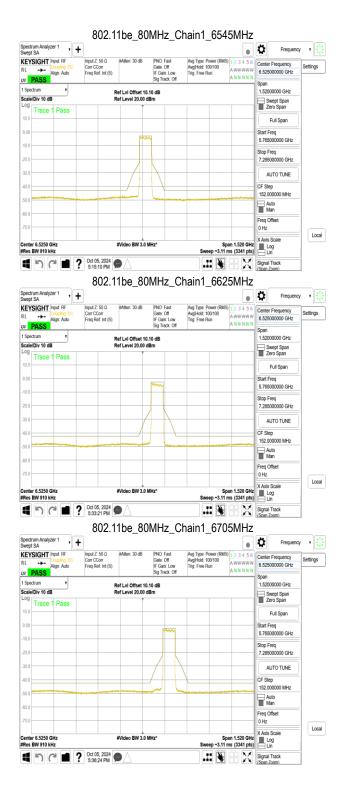
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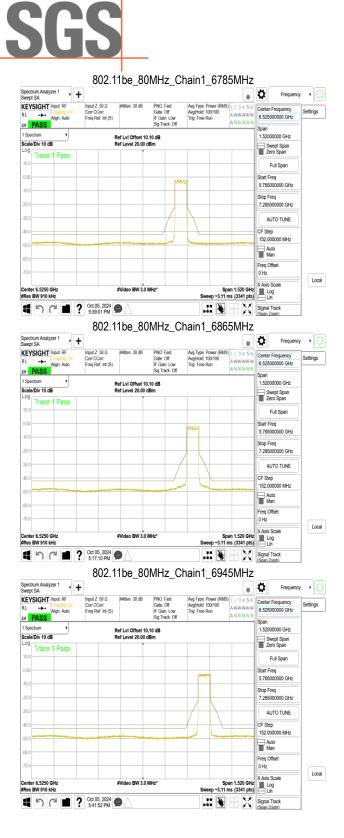
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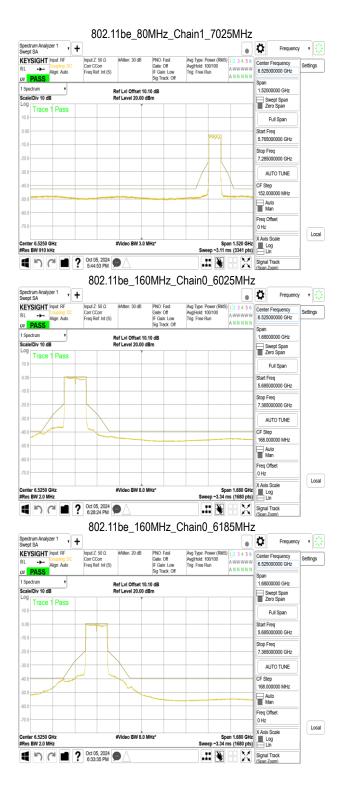
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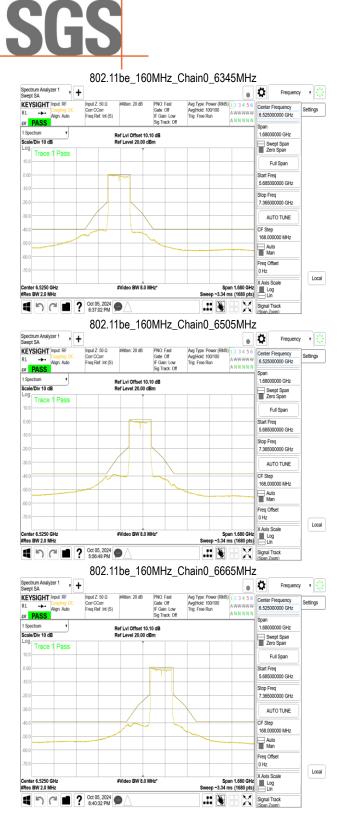
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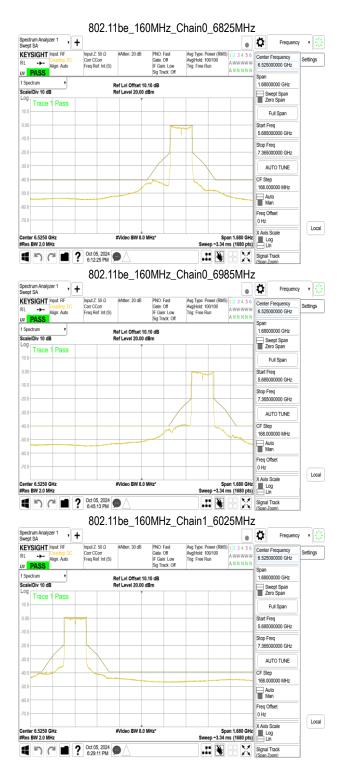
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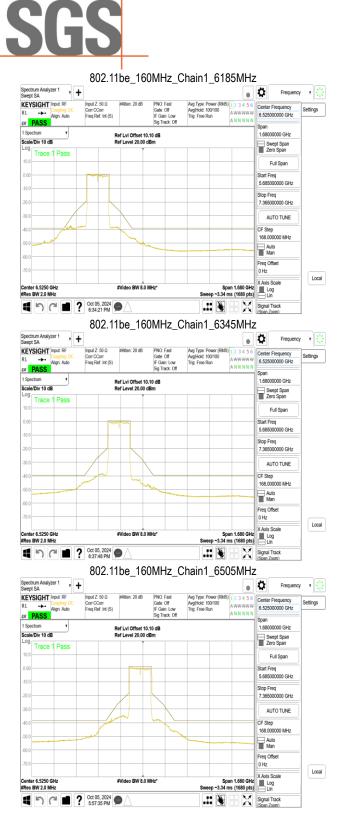
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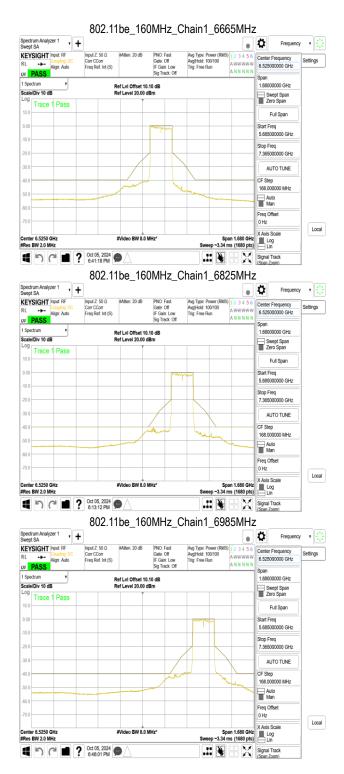
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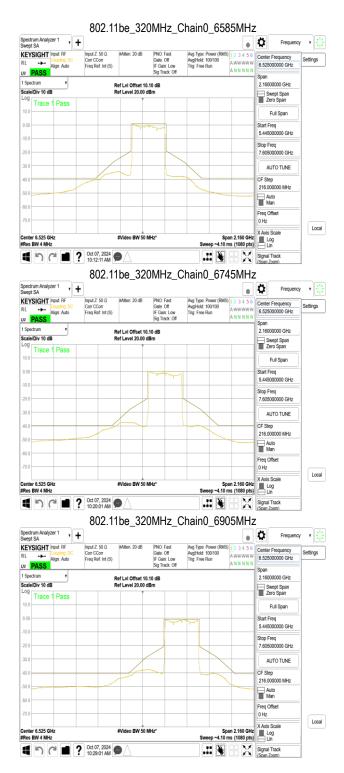
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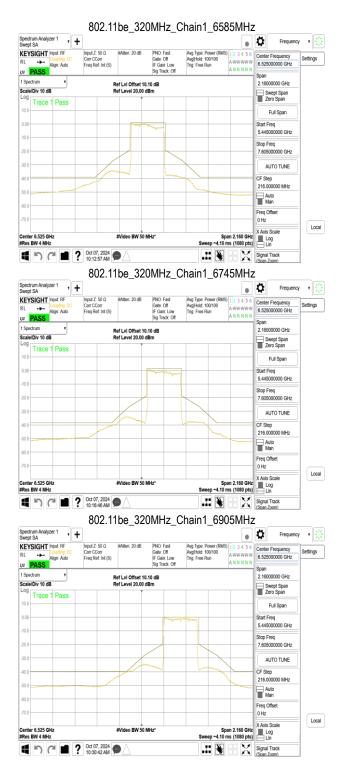
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# 12 UNDESIRABLE RADIATED EMISSIONS

# 12.1 Standard Applicable

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz and below 1 GHz must comply with the general field strength limits set forth in §15.209.

The provisions of §15.205 apply to intentional radiators operating under this section.

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

# Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz)	Peak: 88.2 (dBµV/m)
AV: -27 (dBm/MHz)	AV: 68.2 (dBµV/m)

 $EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.7$  $E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.7$ 

#### Below 1G and restricted limit

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

The lower limit shall apply at the transition frequencies. 1.

# 12.2 Test Setup

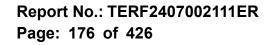
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.

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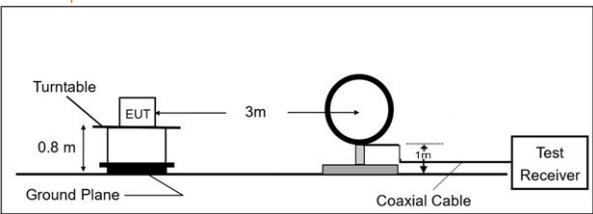
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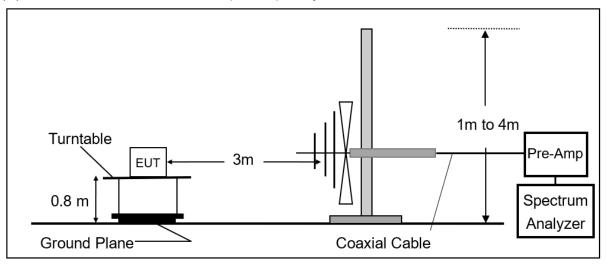
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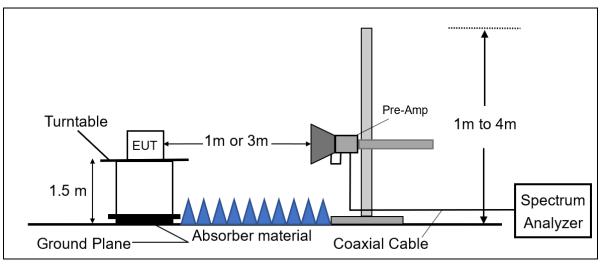




(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



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# 12.3 Measurement Procedure

- **1.** The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- **3.** The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- **4.** The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- **5.** EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- **6.** Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- **7.** Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
- 8. At frequency above 1 GHz, Set the spectrum analyzer:
  - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
  - **B.** Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for **Average** Detector.
- **9.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- **10.** And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- **11.** Repeat above procedures until all frequency measured were complete.

# 12.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

# FS = RA + AF + CL - AG

Where FS = Field Strength

RA = Reading Amplitude AF = Antenna Factor *CL* = *Cable Attenuation Factor (Cable Loss) AG* = *Amplifier Gain* 

The limit of the emission level is expressed in dBuV/m, which converts  $20*\log(uV/m)$ Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB) Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

# 12.5 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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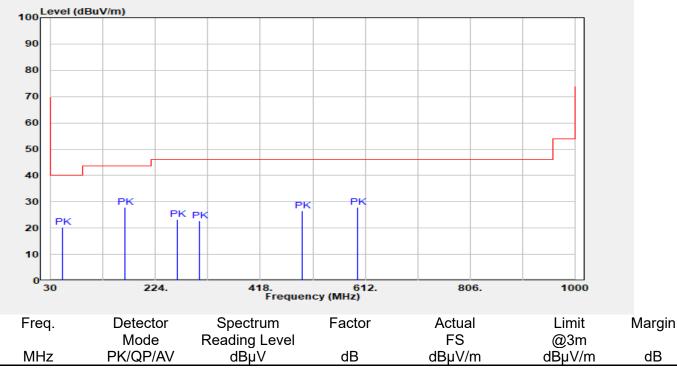
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# 12.6 Radiated Spurious Emission Measurement Result

#### 12.6.1 **Spurious Emission**

Report Number	:TERF2407002111ER	Test Site	:SAC 3
<b>Operation Mode</b>	:802.11a	Test Date	:2024-08-20
Test Frequency	:6175 MHz	Temp./Humi.	:23.5°C/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Nick Lin



	FIX/QF/AV	ubμv	uВ	ubµv/m	ubµv/m	uD
51.34	Peak	29.19	-8.76	20.43	40.00	-19.57
167.74	Peak	36.79	-8.86	27.93	43.50	-15.57
263.77	Peak	31.62	-8.35	23.27	46.00	-22.73
304.51	Peak	29.94	-7.12	22.82	46.00	-23.18
494.63	Peak	30.46	-3.83	26.63	46.00	-19.37
597.45	Peak	29.65	-1.70	27.95	46.00	-18.05

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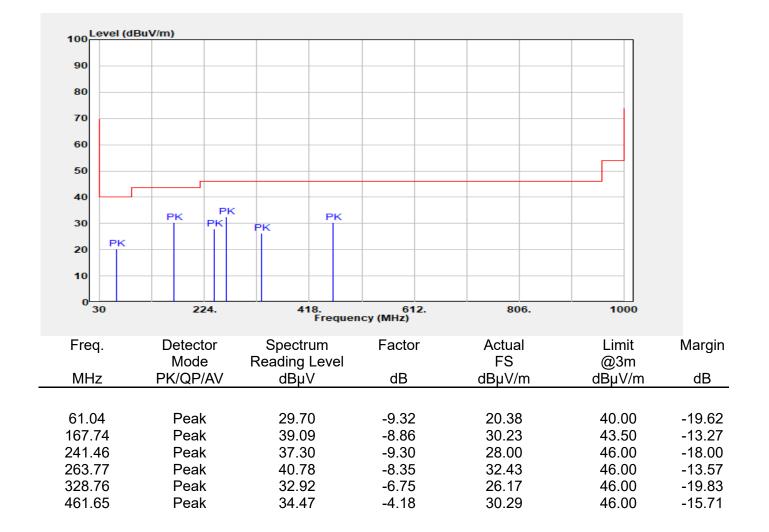
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Report Number : TERF2407002111ER Operation Mode :802.11a Test Frequency :6175 MHz Test Mode :Tx EUT Pol :E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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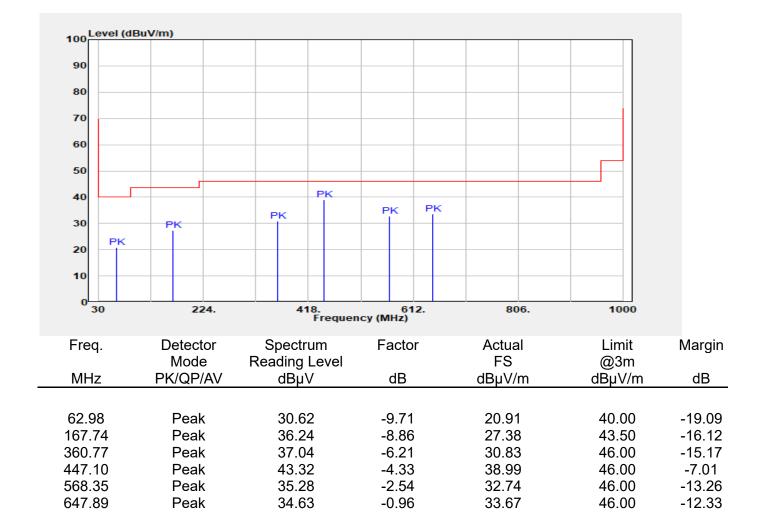
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Report Number : TERF2407002111ER Operation Mode :802.11a Test Frequency :6475 MHz Test Mode :Tx EUT Pol :E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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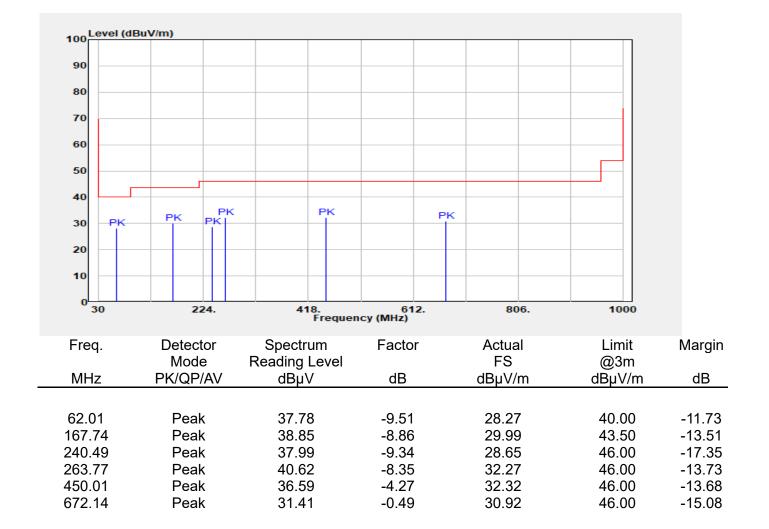
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Report Number : TERF2407002111ER Operation Mode :802.11a Test Frequency :6475 MHz Test Mode :Tx EUT Pol :E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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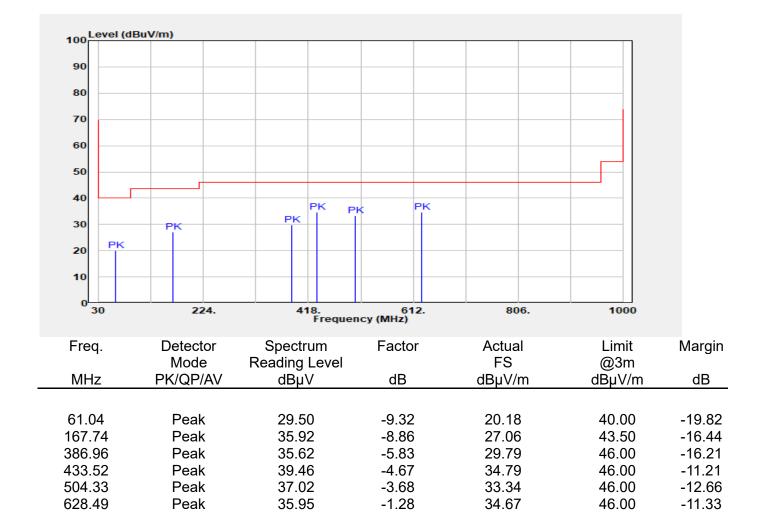
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Report Number : TERF2407002111ER Operation Mode :802.11a Test Frequency :6695 MHz Test Mode :Tx :E1 Plane EUT Pol

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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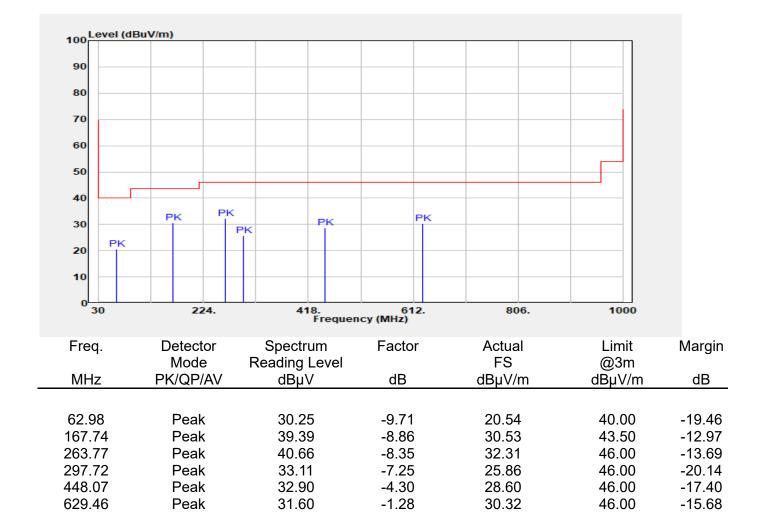
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Report Number : TERF2407002111ER Operation Mode :802.11a Test Frequency :6695 MHz Test Mode :Tx :E1 Plane EUT Pol

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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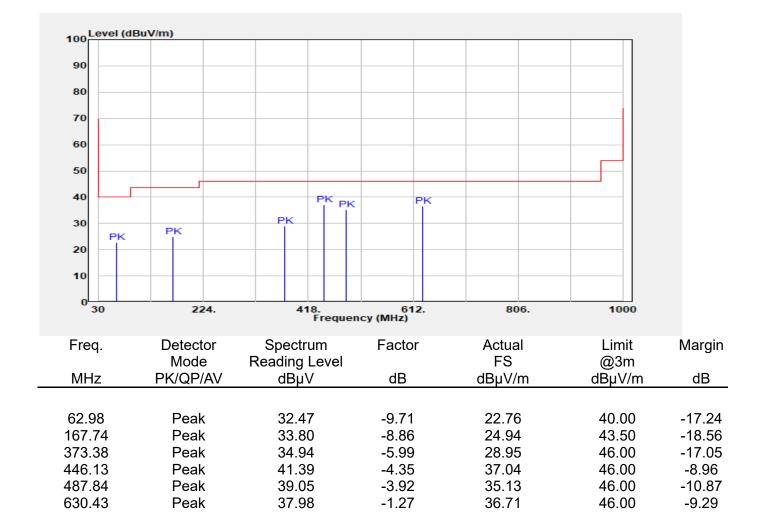
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Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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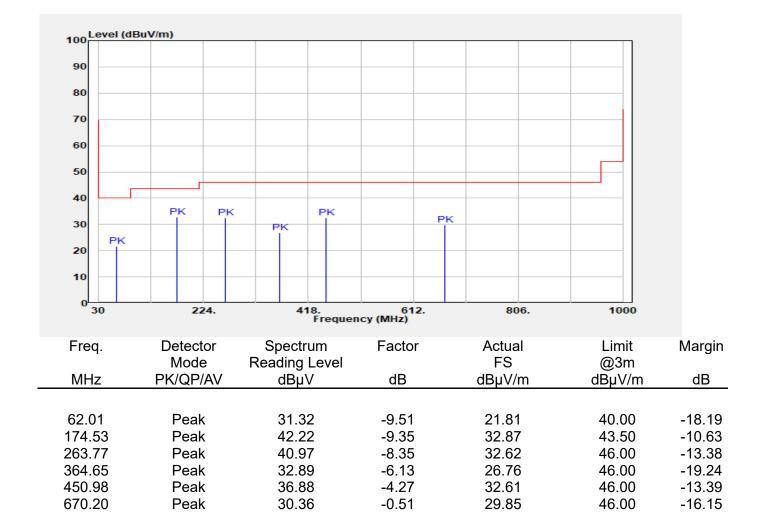
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Report Number : TERF2407002111ER Operation Mode :802.11a Test Frequency :6995 MHz Test Mode :Tx :E1 Plane EUT Pol

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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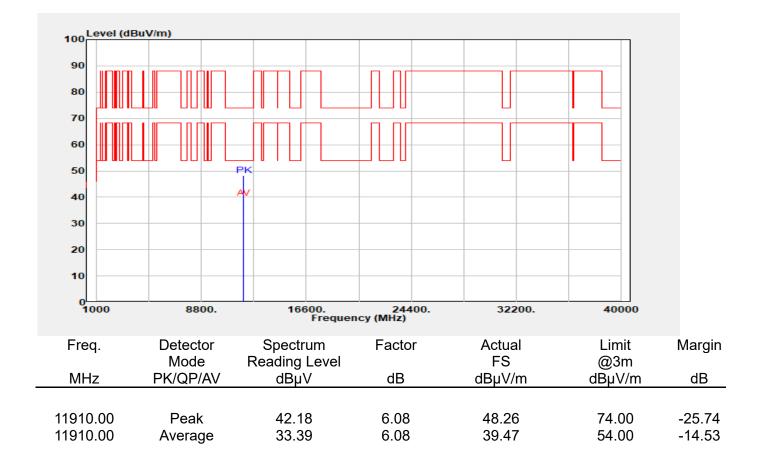
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:5955 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

**Test Site** :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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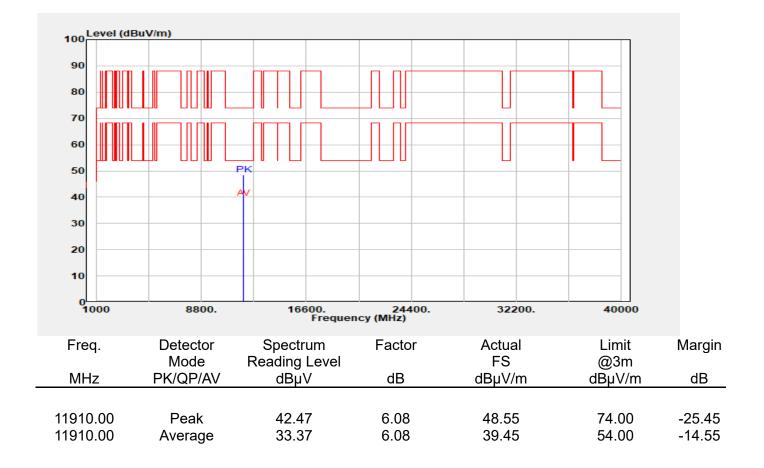
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:5955 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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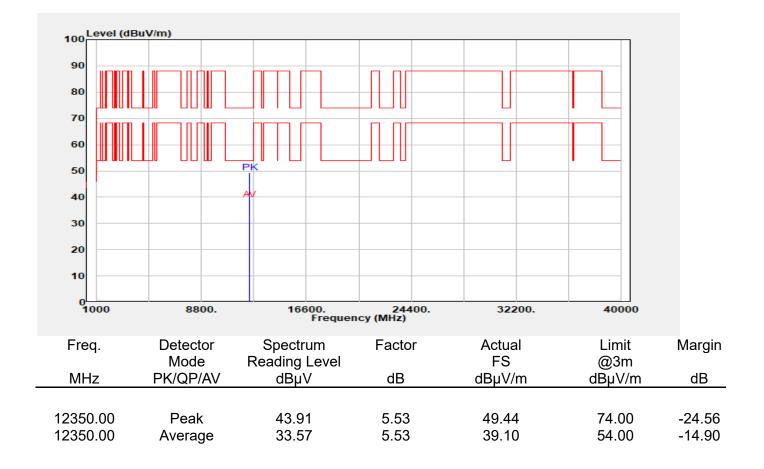
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6175 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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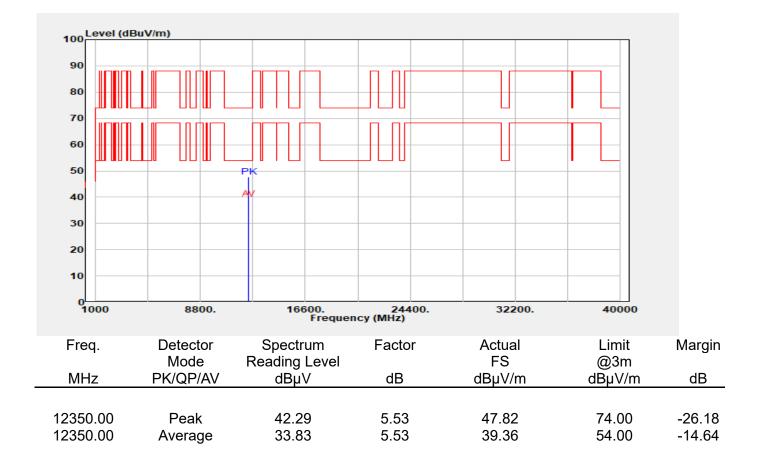
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6175 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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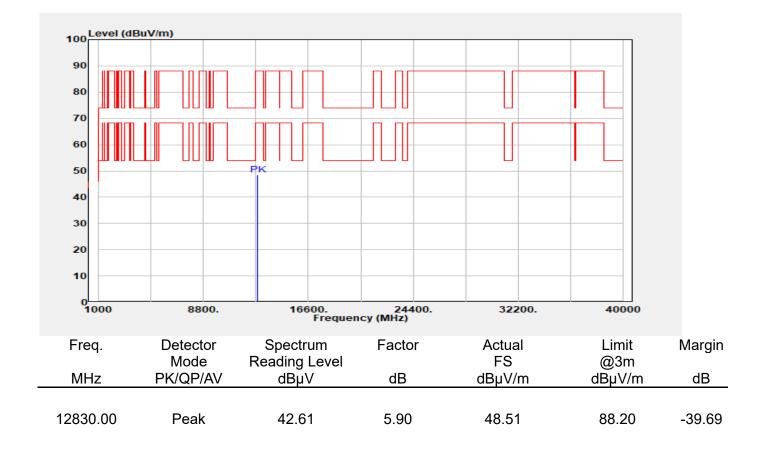
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Report No.: TERF2407002111ER Page: 190 of 426

Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6415 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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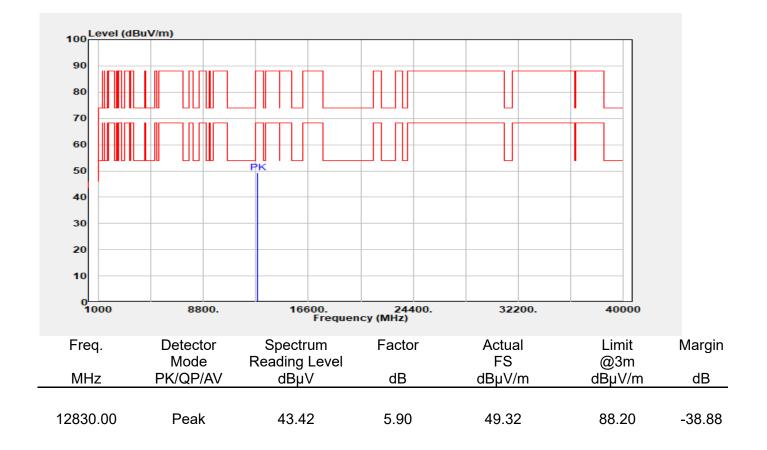
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6415 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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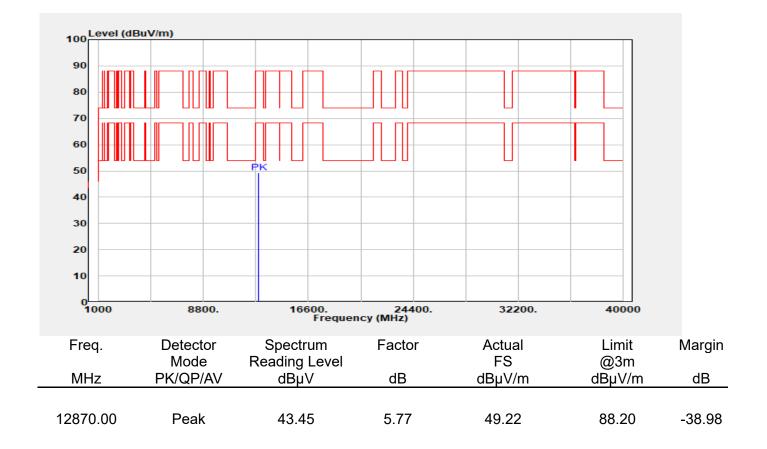
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6435 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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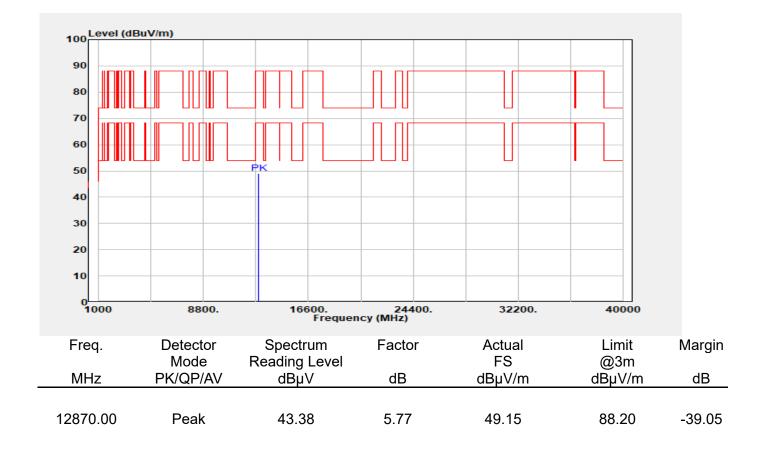
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6435 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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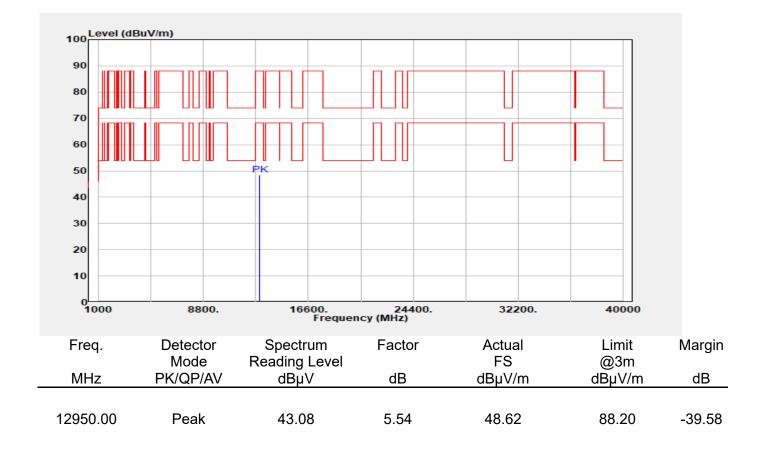
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6475 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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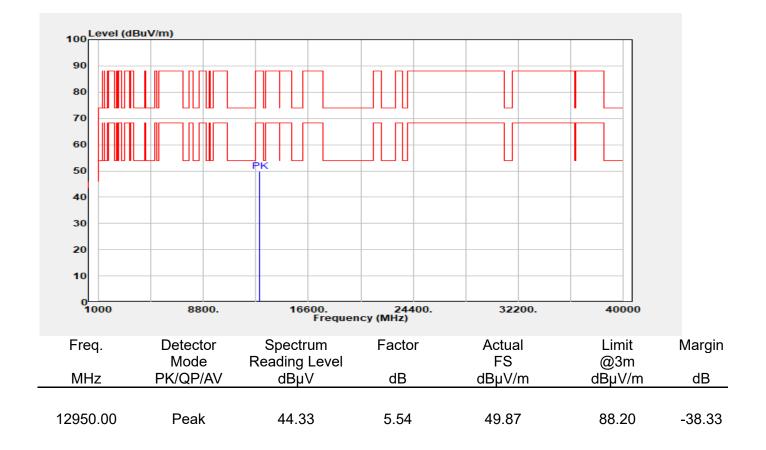
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6475 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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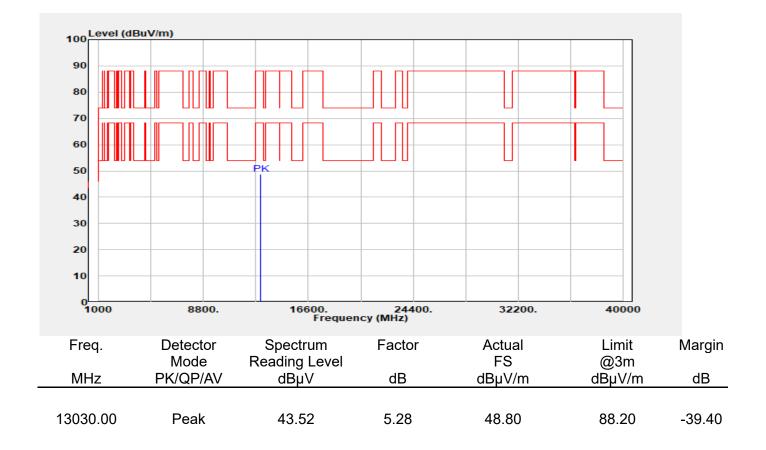
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6515 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Vertical Engineer :Nick Lin



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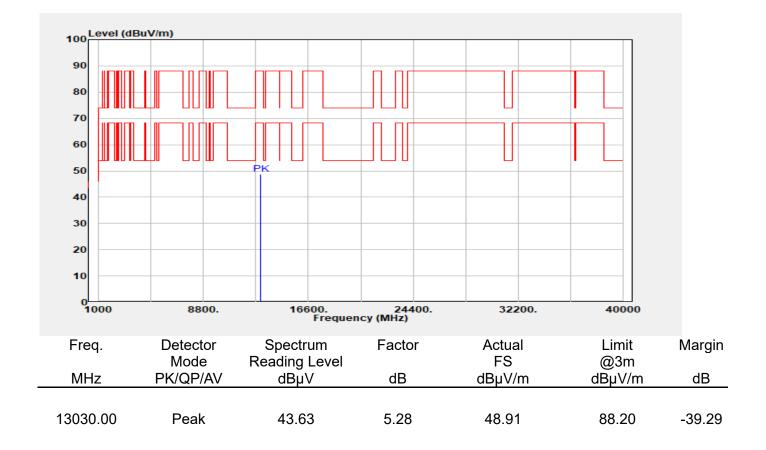
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Report Number	:TERF2407002111ER
<b>Operation Mode</b>	:802.11a
Test Frequency	:6515 MHz
Test Mode	:Tx
EUT Pol	:E1 Plane

Test Site :SAC 3 **Test Date** :2024-08-20 Temp./Humi. :23.5°C/67% Antenna Pol. :Horizontal Engineer :Nick Lin



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