

11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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:

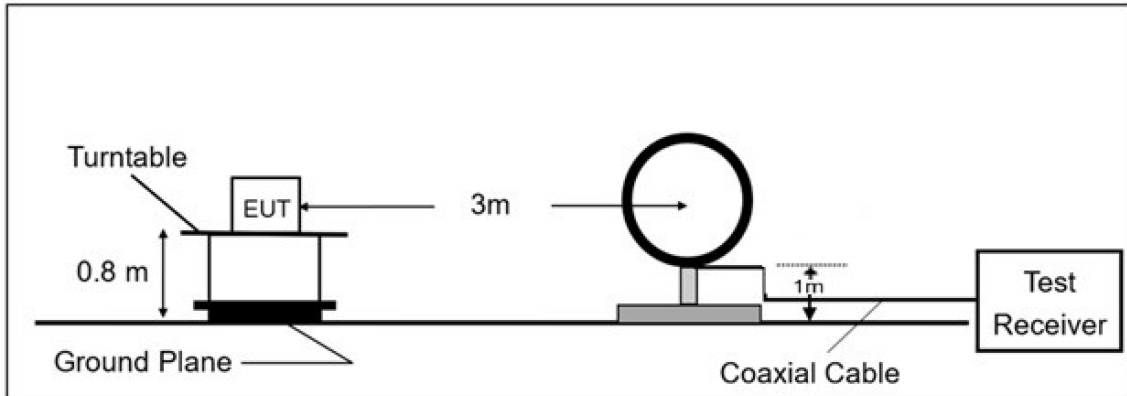
1. The lower limit shall apply at the transition frequencies.

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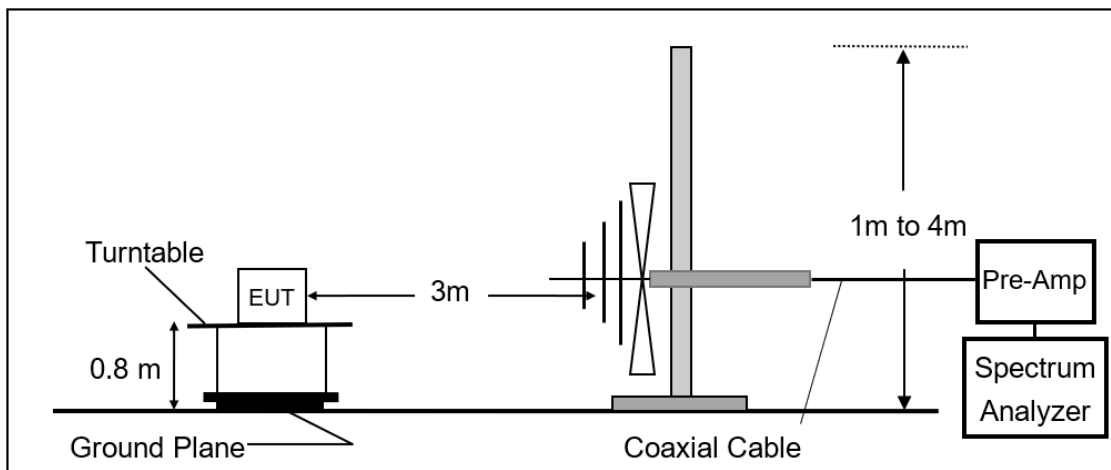
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11.2 Test Setup

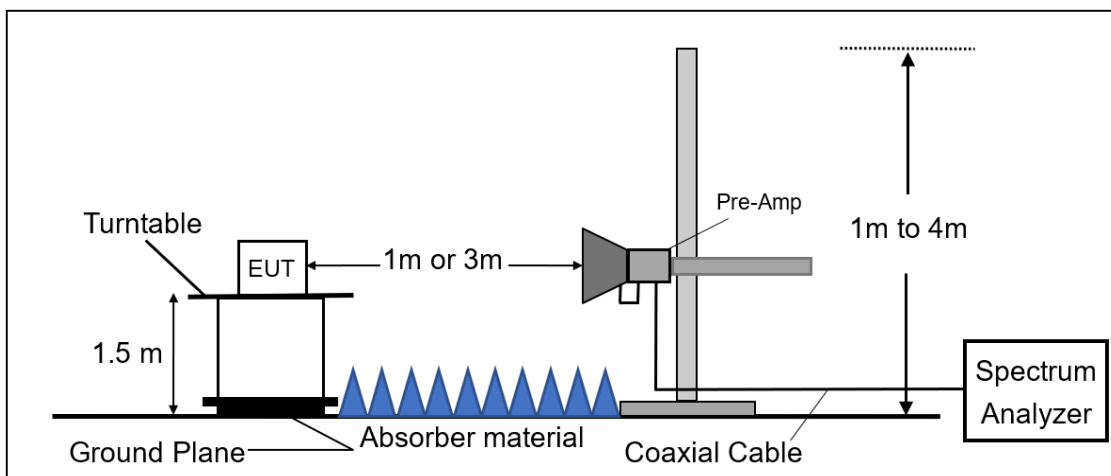
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

11.4 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*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

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SGS Taiwan Ltd.

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Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.5 Test Results of Radiated Spurious Emissions from 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.

11.6 Measurement Result

Note:

1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands*

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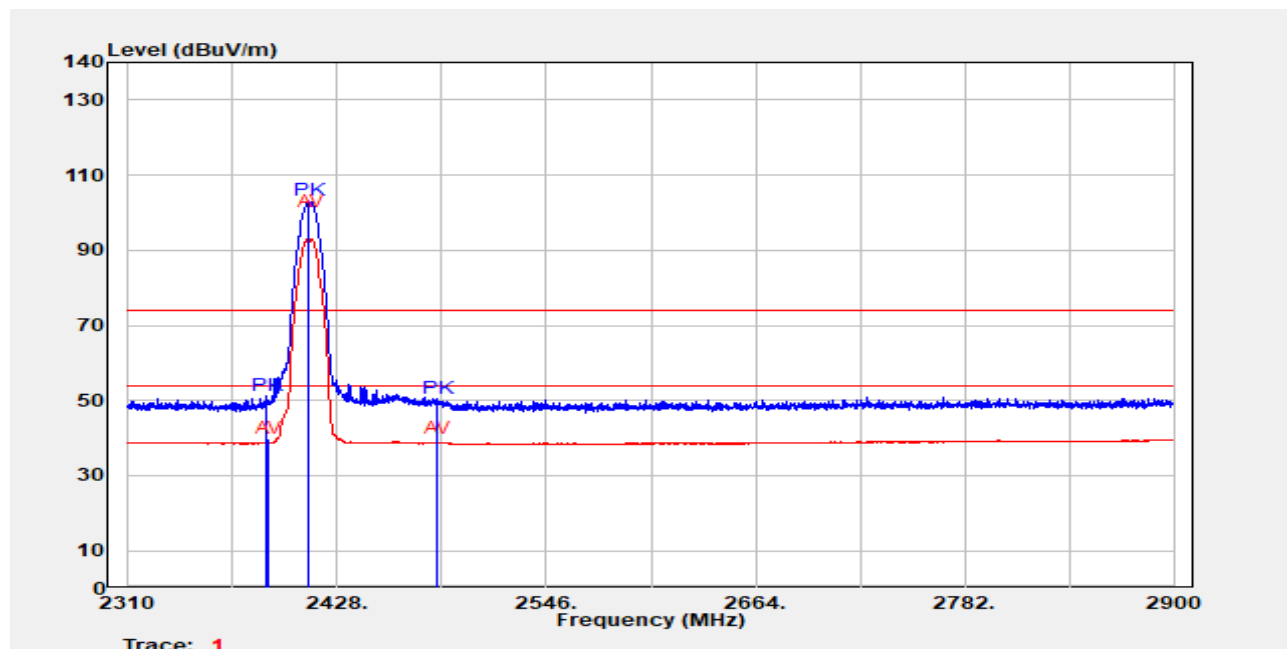
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11.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2504001347ER
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2025-05-06
Temp./Humi. :24.5°C/63%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.32	Peak	55.66	-4.50	51.16	74.00	-22.84
2388.89	Average	44.39	-4.51	39.88	54.00	-14.12
2412.00	Peak	107.59	-4.57	103.02	-	-
2412.00	Average	104.79	-4.57	100.22	-	-
2484.31	Average	44.70	-4.70	40.00	54.00	-14.00
2484.70	Peak	55.05	-4.70	50.35	74.00	-23.65

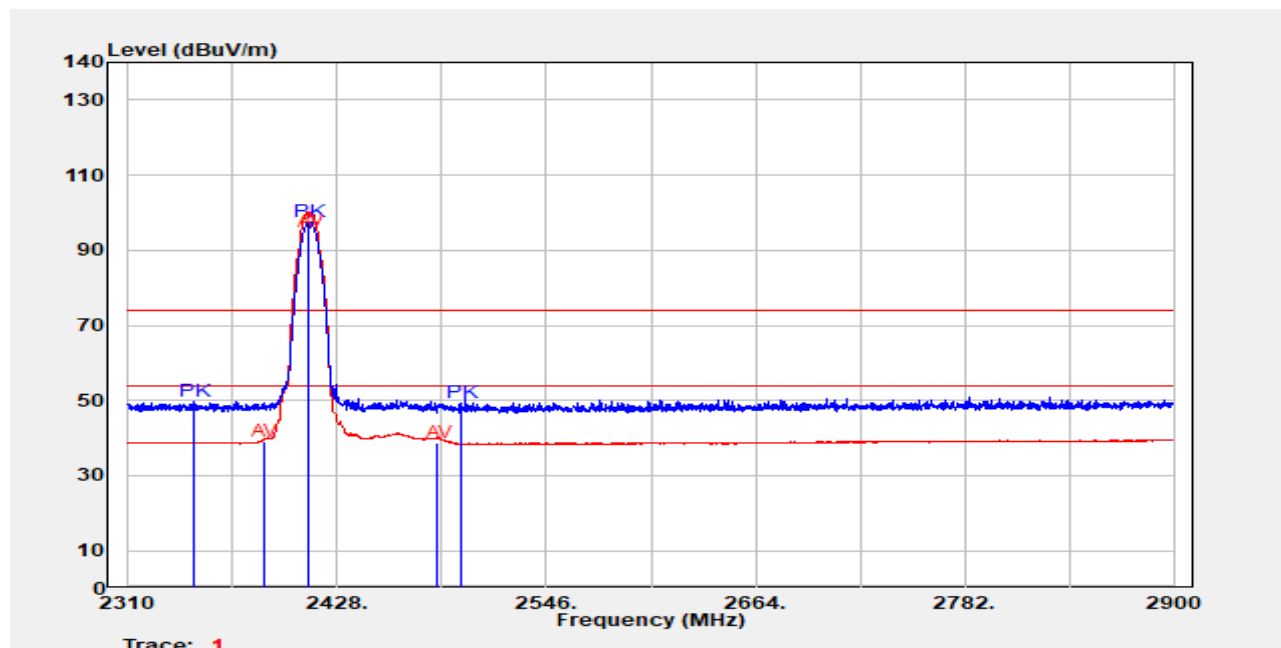
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Report Number :TERF2504001347ER
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2025-05-06
Temp./Humi. :24.5°C/63%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2347.38	Peak	54.02	-4.41	49.61	74.00	-24.39
2386.53	Average	43.47	-4.50	38.97	54.00	-15.03
2412.00	Peak	102.18	-4.57	97.61	-	-
2412.00	Average	99.34	-4.57	94.77	-	-
2484.70	Average	43.50	-4.70	38.80	54.00	-15.20
2497.29	Peak	54.12	-4.70	49.42	74.00	-24.58

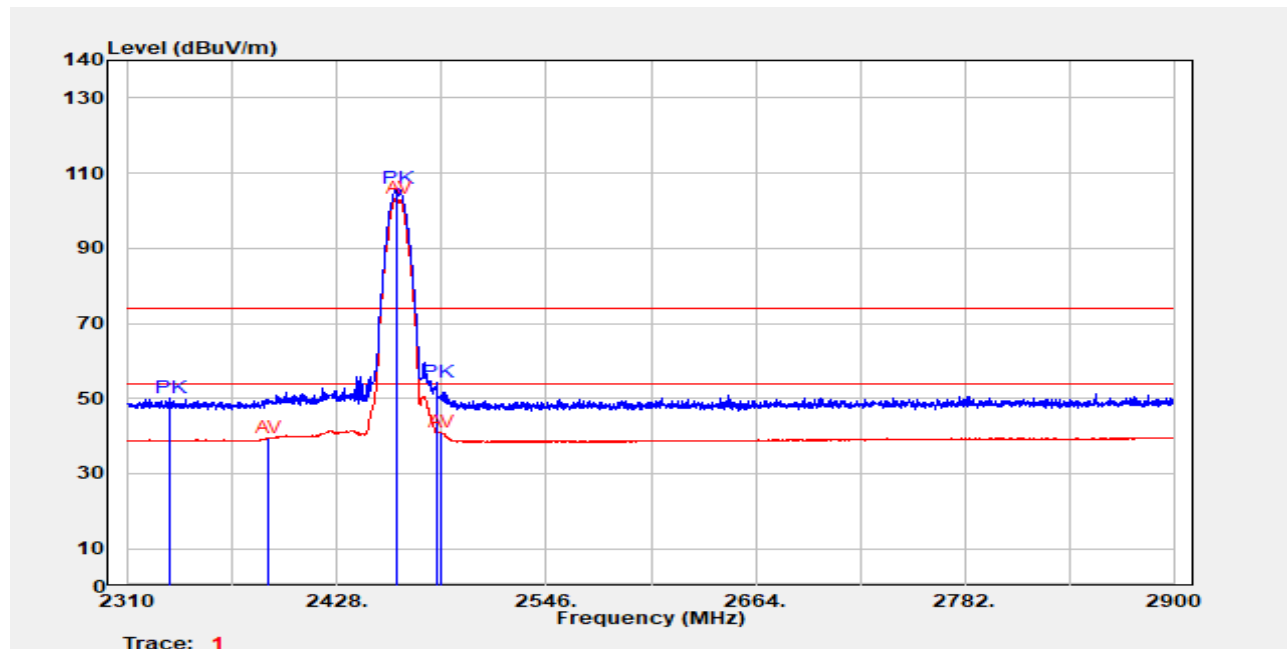
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 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



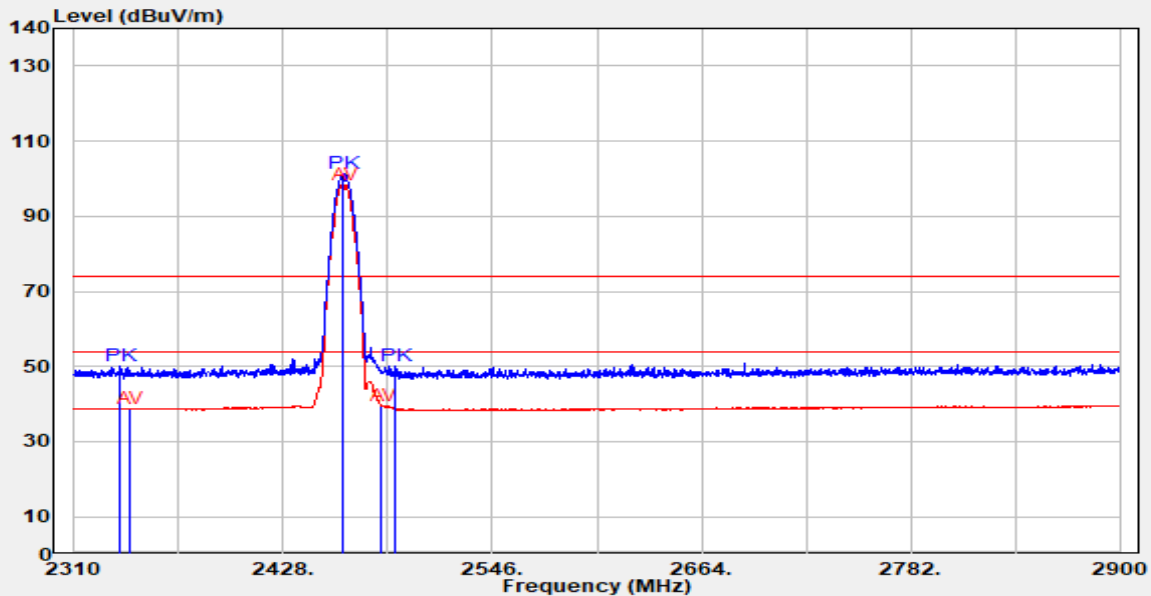
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2333.21	Peak	54.44	-4.38	50.06	74.00	-23.94
2389.09	Average	43.95	-4.51	39.44	54.00	-14.56
2462.00	Peak	110.61	-4.71	105.90	-	-
2462.00	Average	107.81	-4.71	103.10	-	-
2483.91	Peak	58.77	-4.70	54.07	74.00	-19.93
2486.08	Average	45.84	-4.71	41.13	54.00	-12.87

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 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



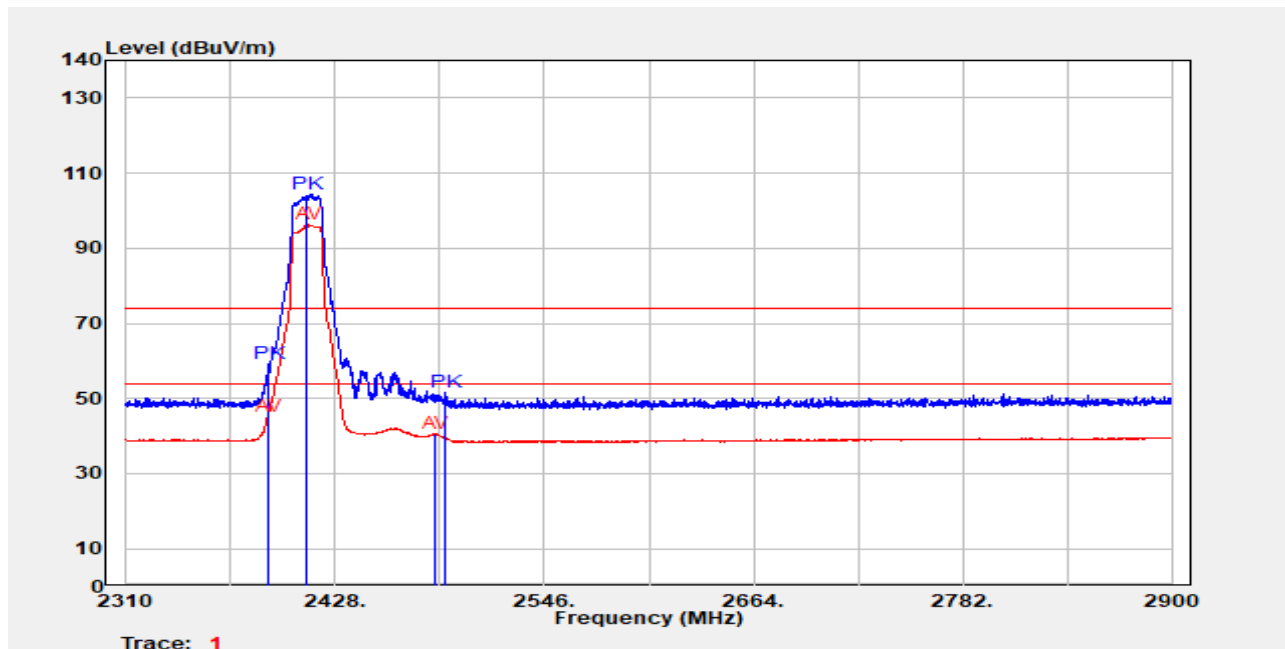
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2335.58	Peak	54.59	-4.39	50.20	74.00	-23.80
2341.28	Average	43.25	-4.39	38.86	54.00	-15.14
2462.00	Peak	105.95	-4.71	101.24	-	-
2462.00	Average	102.95	-4.71	98.24	-	-
2483.50	Average	44.24	-4.70	39.54	54.00	-14.46
2490.80	Peak	54.82	-4.70	50.12	74.00	-23.88

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Report Number :TERF2504001347ER
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 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



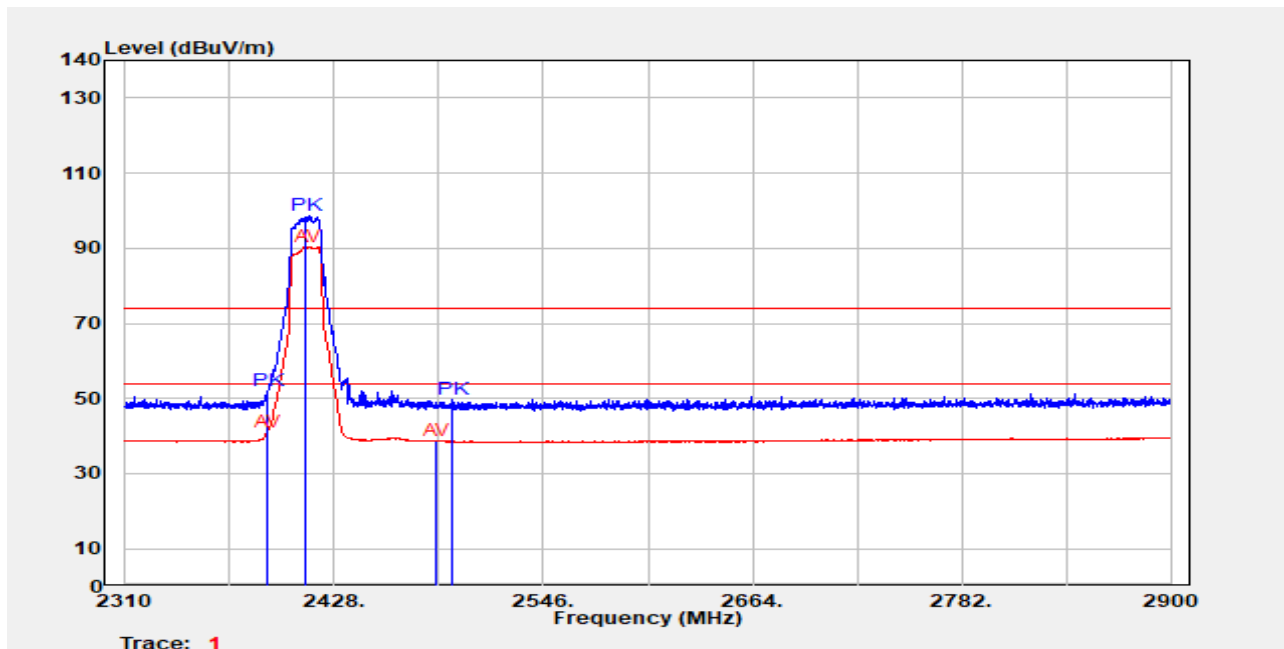
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2389.87	Peak	63.68	-4.51	59.17	74.00	-14.83
2389.87	Average	49.77	-4.51	45.26	54.00	-8.74
2412.00	Peak	108.99	-4.57	104.42	-	-
2412.00	Average	100.76	-4.57	96.19	-	-
2484.31	Average	45.16	-4.70	40.46	54.00	-13.54
2489.62	Peak	56.30	-4.70	51.60	74.00	-22.40

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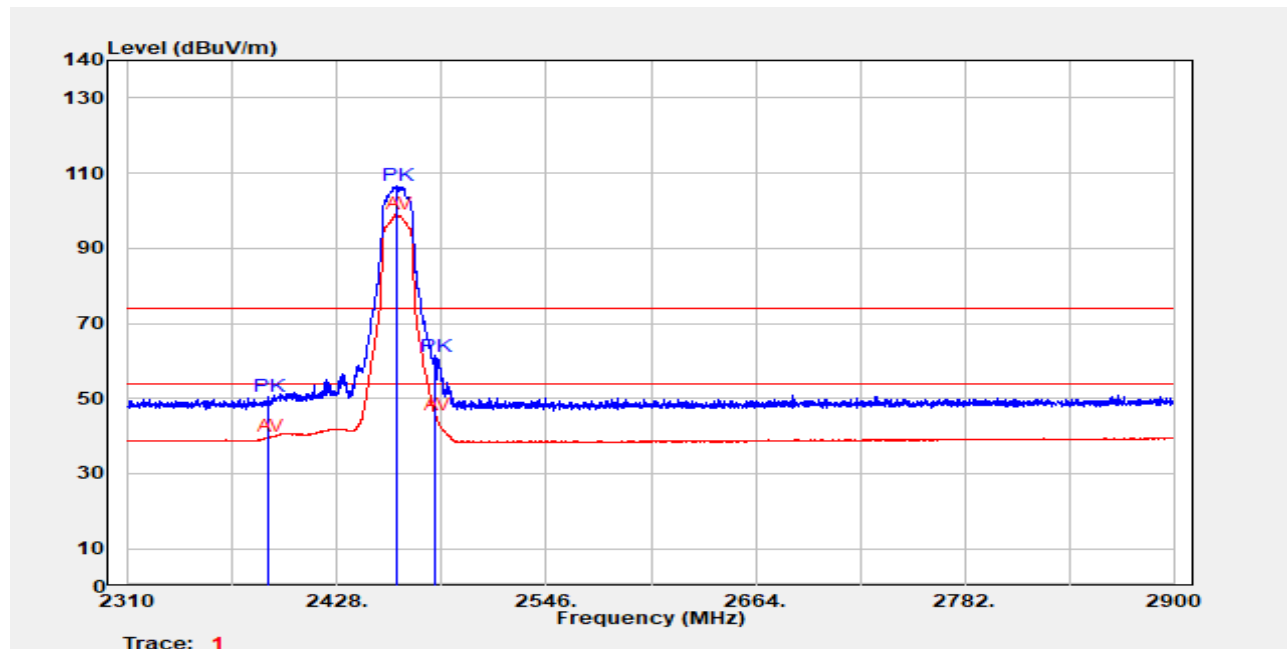
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2389.87	Peak	56.32	-4.51	51.81	74.00	-22.19
2389.87	Average	45.42	-4.51	40.91	54.00	-13.09
2412.00	Peak	103.05	-4.57	98.48	-	-
2412.00	Average	95.01	-4.57	90.44	-	-
2485.29	Average	43.54	-4.71	38.83	54.00	-15.17
2494.34	Peak	54.26	-4.70	49.56	74.00	-24.44

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 Engineer :Nick Lin



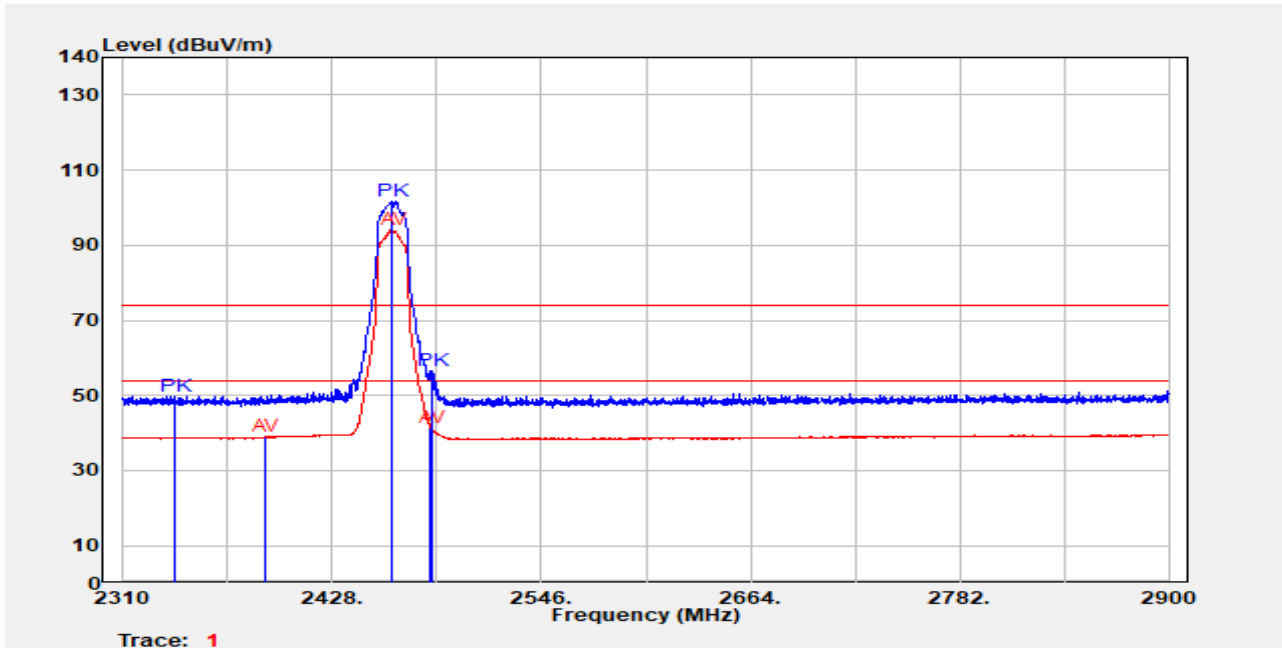
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2388.89	Peak	54.98	-4.51	50.47	74.00	-23.53
2389.48	Average	44.18	-4.51	39.67	54.00	-14.33
2462.00	Peak	111.32	-4.71	106.61	-	-
2462.00	Average	103.66	-4.71	98.95	-	-
2483.50	Peak	65.84	-4.70	61.14	74.00	-12.86
2483.50	Average	50.25	-4.70	45.55	54.00	-8.45

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Report Number :TERF2504001347ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2338.53	Peak	54.26	-4.39	49.87	74.00	-24.13
2389.87	Average	43.43	-4.51	38.92	54.00	-15.08
2462.00	Peak	106.46	-4.71	101.75	-	-
2462.00	Average	98.70	-4.71	93.99	-	-
2483.50	Average	46.21	-4.70	41.51	54.00	-12.49
2483.72	Peak	61.07	-4.70	56.37	74.00	-17.63

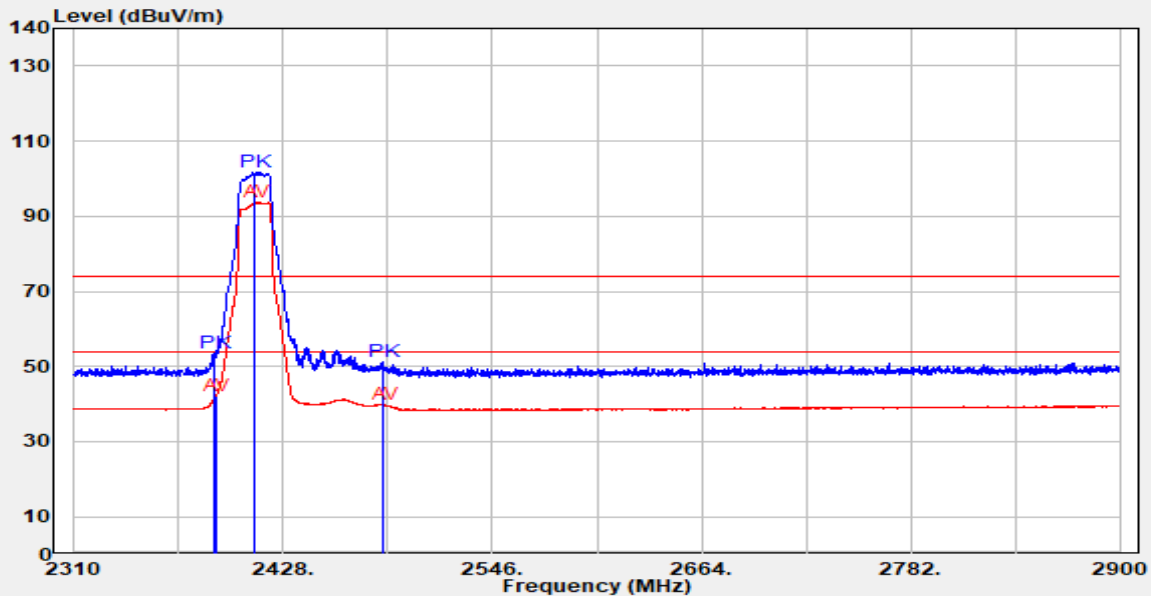
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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



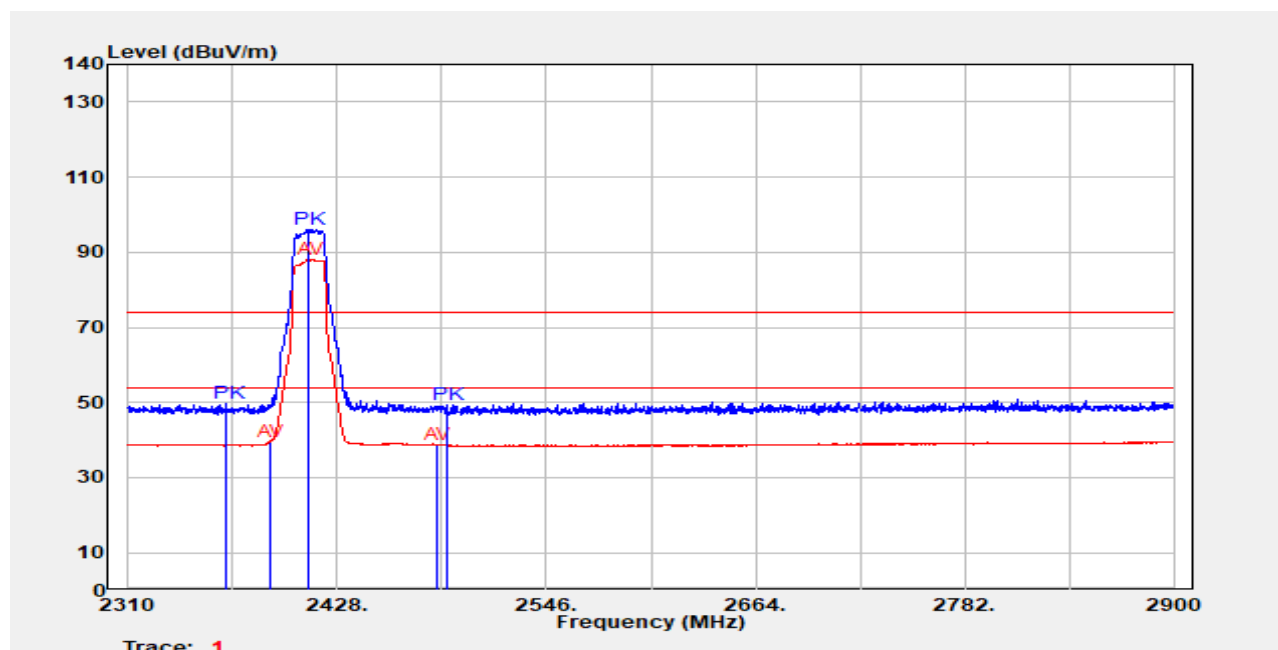
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2388.89	Peak	57.85	-4.51	53.34	74.00	-20.66
2389.87	Average	46.66	-4.51	42.15	54.00	-11.85
2412.00	Peak	106.19	-4.57	101.62	-	-
2412.00	Average	98.29	-4.57	93.72	-	-
2484.50	Peak	55.88	-4.70	51.18	74.00	-22.82
2484.50	Average	44.67	-4.70	39.97	54.00	-14.03

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



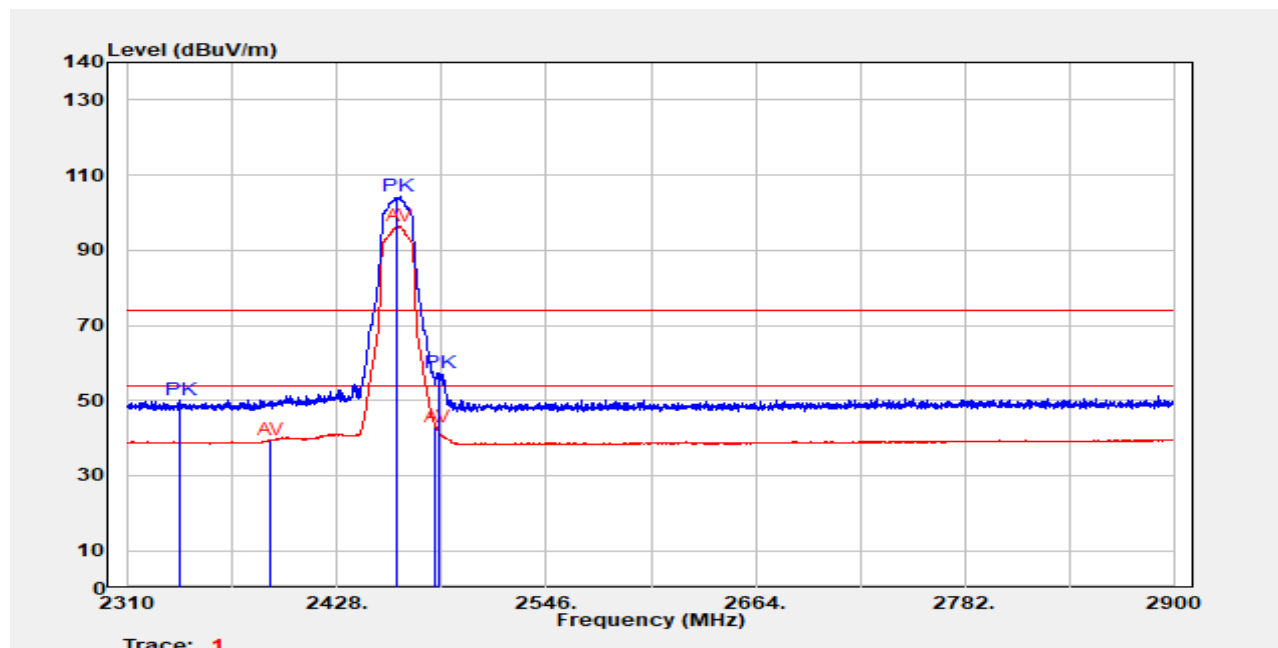
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2365.68	Peak	54.12	-4.45	49.67	74.00	-24.33
2389.87	Average	43.97	-4.51	39.46	54.00	-14.54
2412.00	Peak	100.72	-4.57	96.15	-	-
2412.00	Average	92.63	-4.57	88.06	-	-
2483.91	Average	43.56	-4.70	38.86	54.00	-15.14
2489.62	Peak	54.13	-4.70	49.43	74.00	-24.57

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



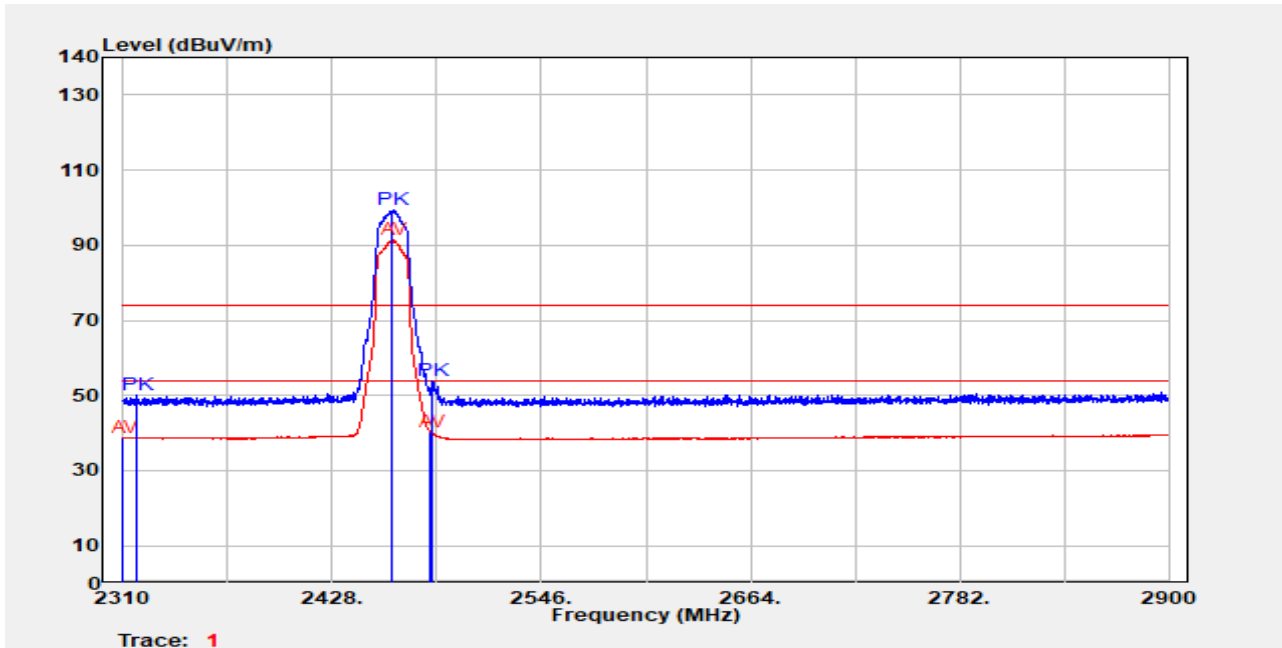
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2339.51	Peak	54.65	-4.39	50.26	74.00	-23.74
2389.87	Average	44.02	-4.51	39.51	54.00	-14.49
2462.00	Peak	109.05	-4.71	104.34	-	-
2462.00	Average	101.07	-4.71	96.36	-	-
2483.50	Average	47.70	-4.70	43.00	54.00	-11.00
2485.49	Peak	62.11	-4.71	57.40	74.00	-16.60

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2310.00	Average	43.17	-4.32	38.85	54.00	-15.15
2317.28	Peak	54.25	-4.34	49.91	74.00	-24.09
2462.00	Peak	104.13	-4.71	99.42	-	-
2462.00	Average	95.97	-4.71	91.26	-	-
2483.50	Average	44.82	-4.70	40.12	54.00	-13.88
2484.11	Peak	58.40	-4.70	53.70	74.00	-20.30

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

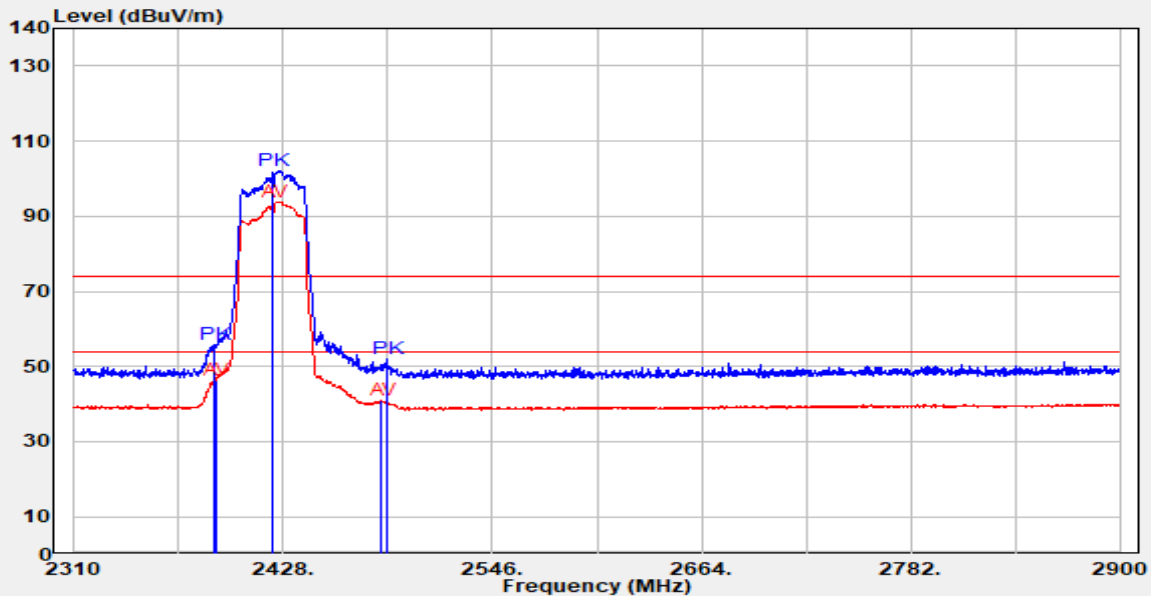
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



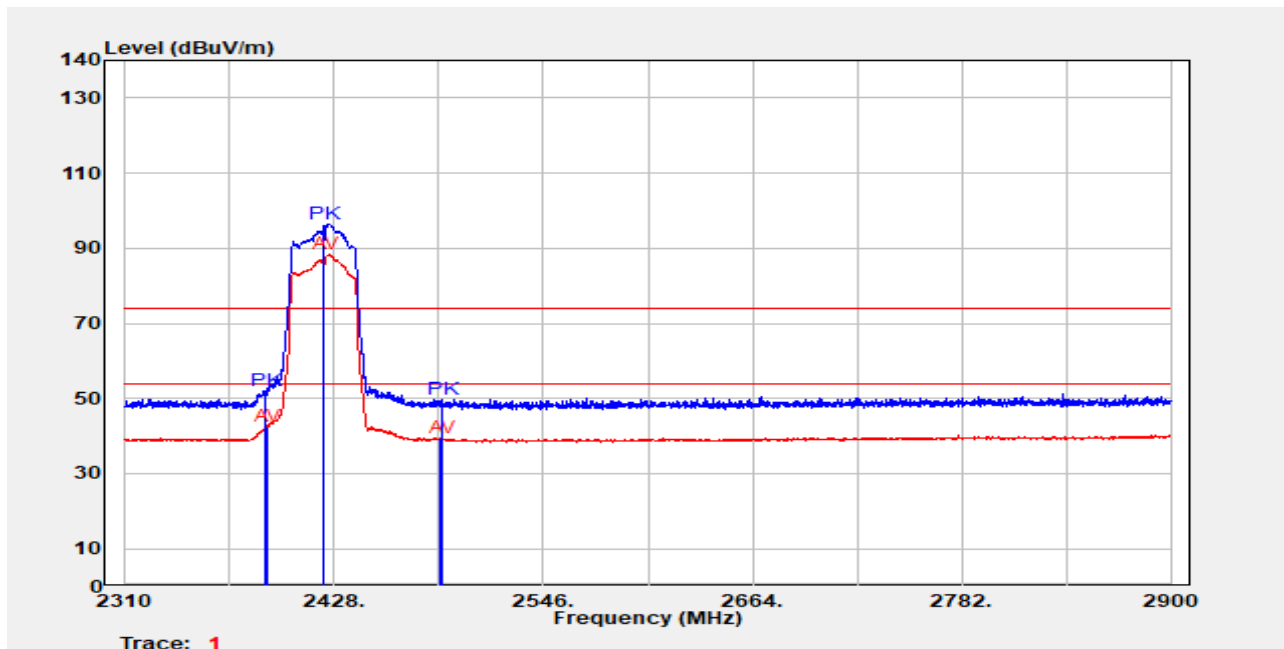
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2389.28	Peak	60.39	-4.51	55.88	74.00	-18.12
2389.87	Average	50.90	-4.51	46.39	54.00	-7.61
2422.00	Peak	106.70	-4.61	102.09	-	-
2422.00	Average	98.45	-4.61	93.84	-	-
2483.50	Average	45.52	-4.70	40.82	54.00	-13.18
2486.67	Peak	56.52	-4.71	51.81	74.00	-22.19

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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



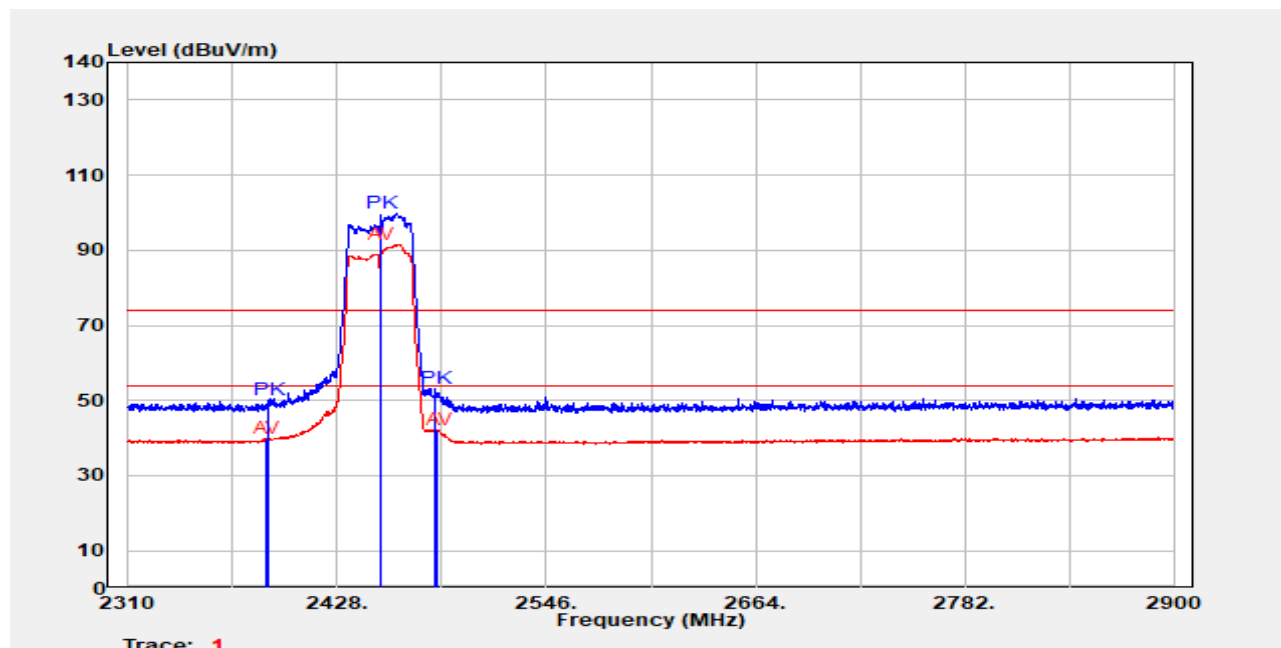
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2388.89	Peak	56.45	-4.51	51.94	74.00	-22.06
2389.87	Average	46.96	-4.51	42.45	54.00	-11.55
2422.00	Peak	101.08	-4.61	96.47	-	-
2422.00	Average	92.92	-4.61	88.31	-	-
2487.85	Average	44.12	-4.71	39.41	54.00	-14.59
2488.83	Peak	54.36	-4.70	49.66	74.00	-24.34

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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



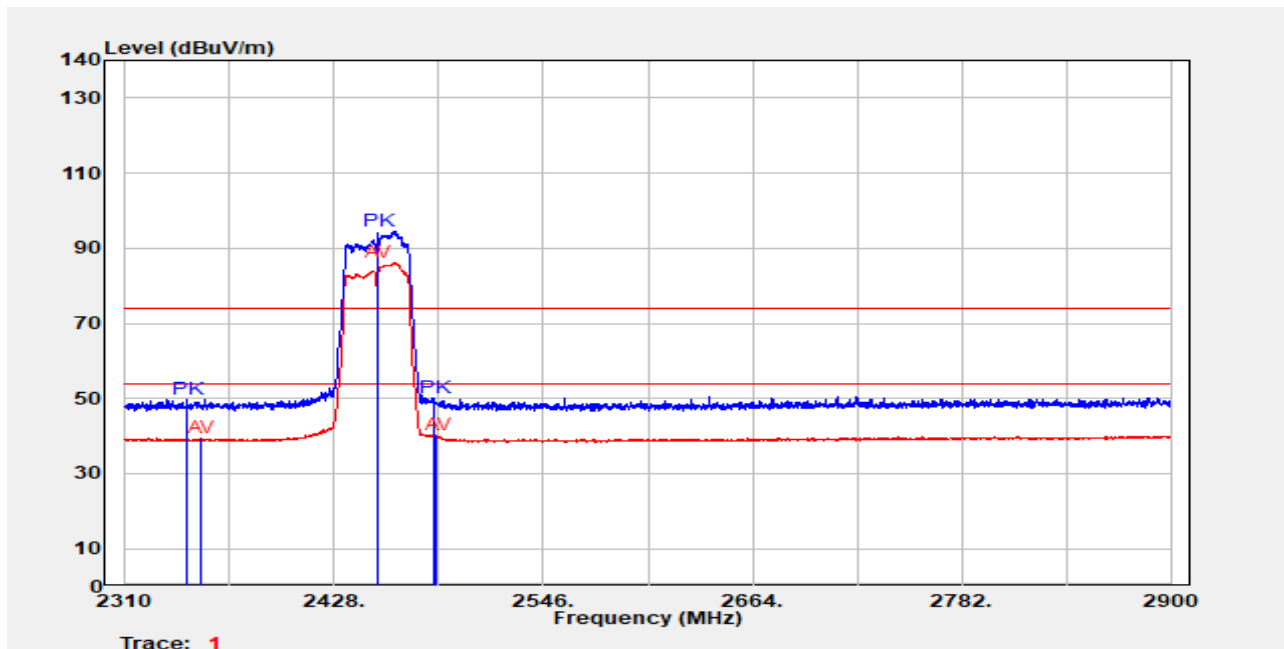
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2387.91	Average	44.26	-4.51	39.75	54.00	-14.25
2388.69	Peak	54.41	-4.51	49.90	74.00	-24.10
2452.00	Peak	104.39	-4.71	99.68	-	-
2452.00	Average	96.14	-4.71	91.43	-	-
2483.50	Peak	57.78	-4.70	53.08	74.00	-20.92
2484.50	Average	46.90	-4.70	42.20	54.00	-11.80

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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-06
 Temp./Humi. :24.5°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2344.63	Peak	54.13	-4.40	49.73	74.00	-24.27
2352.30	Average	43.73	-4.41	39.32	54.00	-14.68
2452.00	Peak	99.21	-4.71	94.50	-	-
2452.00	Average	90.69	-4.71	85.98	-	-
2483.91	Peak	54.73	-4.70	50.03	74.00	-23.97
2485.68	Average	44.91	-4.71	40.20	54.00	-13.80

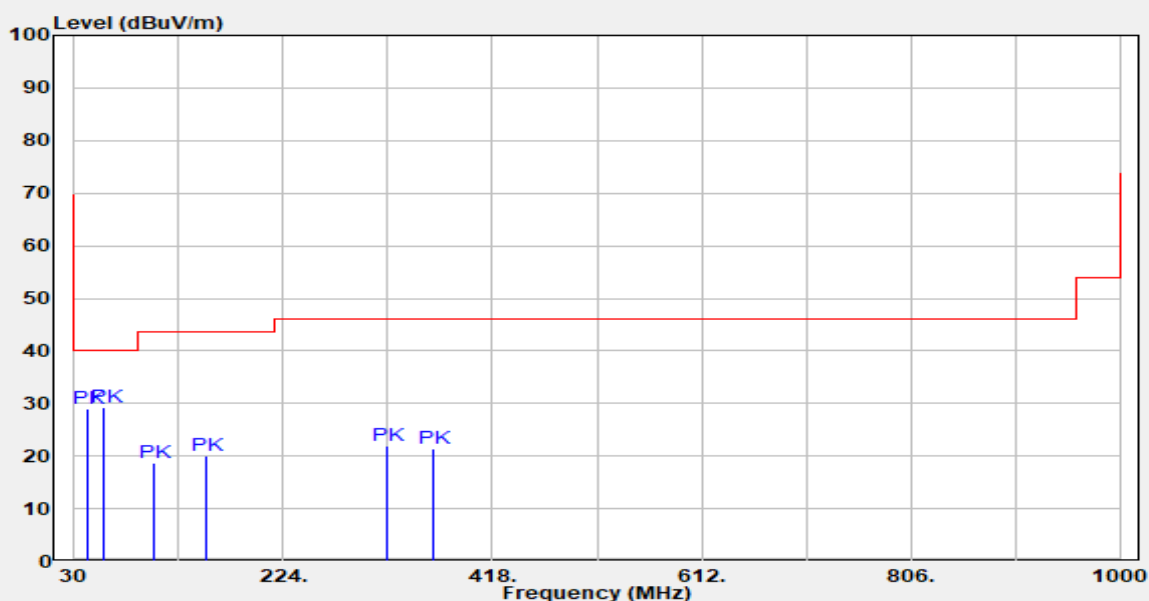
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11.6.2 Spurious Emission:

Report Number :TERF2504001347ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



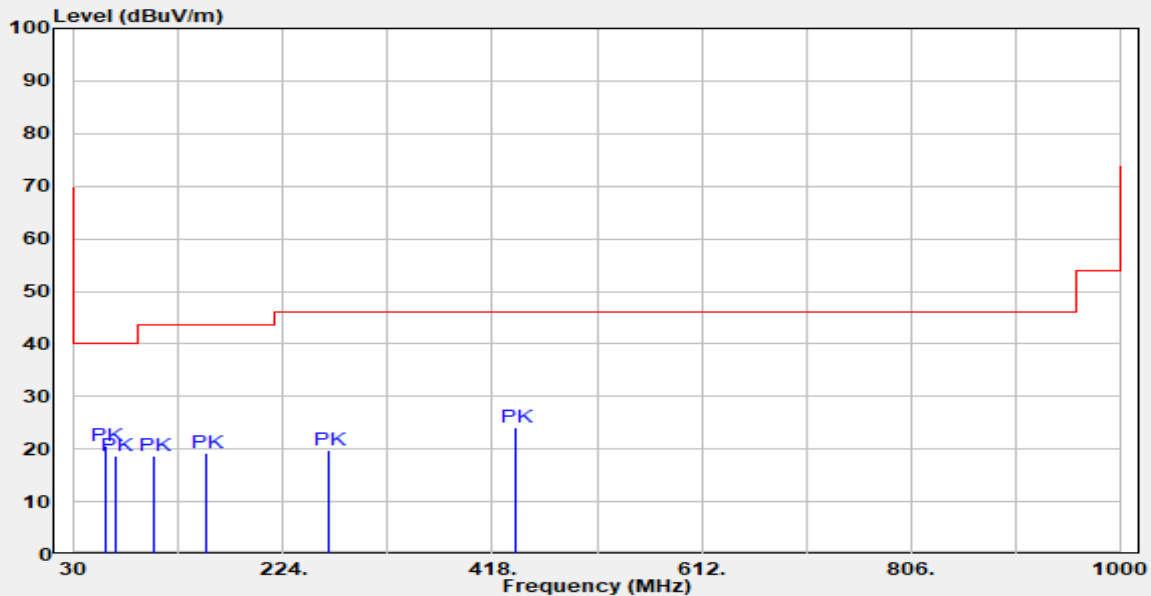
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
41.64	Peak	38.25	-9.31	28.94	40.00	-11.06
58.13	Peak	38.05	-8.89	29.16	40.00	-10.84
103.72	Peak	31.28	-12.67	18.61	43.50	-24.89
152.22	Peak	28.20	-8.20	20.00	43.50	-23.50
320.03	Peak	28.55	-6.54	22.01	46.00	-23.99
362.71	Peak	27.40	-5.91	21.49	46.00	-24.51

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Report Number :TERF2504001347ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



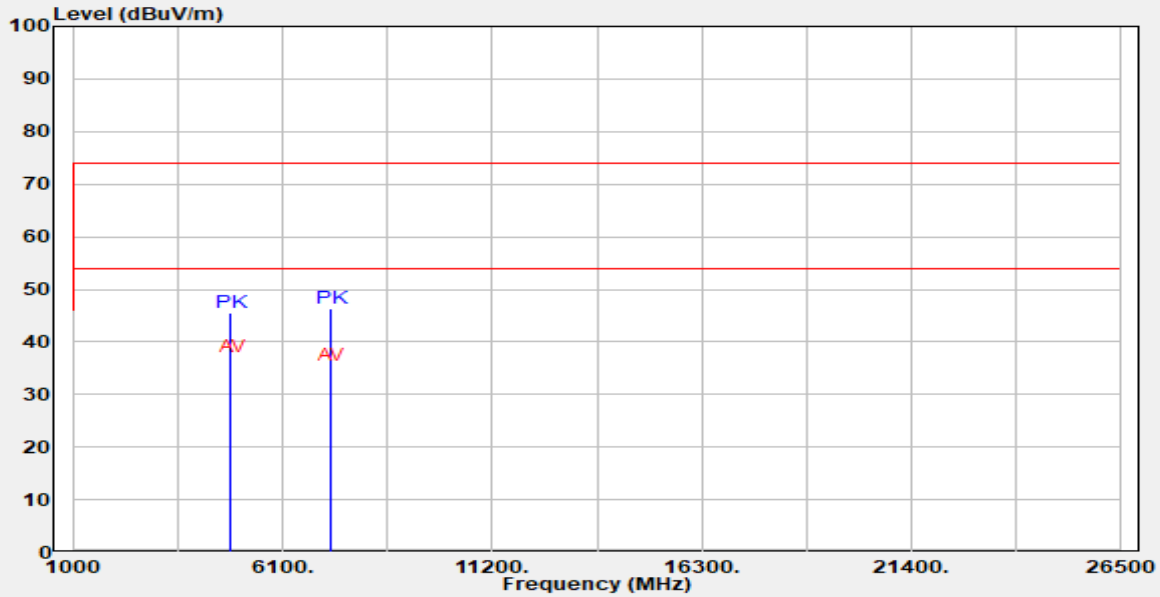
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
59.10	Peak	29.54	-8.93	20.61	40.00	-19.39
68.80	Peak	29.37	-10.69	18.68	40.00	-21.32
103.72	Peak	31.32	-12.67	18.65	43.50	-24.85
152.22	Peak	27.32	-8.20	19.12	43.50	-24.38
265.71	Peak	27.76	-8.07	19.69	46.00	-26.31
440.31	Peak	28.36	-4.16	24.20	46.00	-21.80

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Report Number :TERF2504001347ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Peak	46.12	-0.62	45.50	74.00	-28.50
4824.00	Average	37.72	-0.62	37.10	54.00	-16.90
7236.00	Peak	41.47	5.00	46.47	74.00	-27.53
7236.00	Average	30.45	5.00	35.45	54.00	-18.55

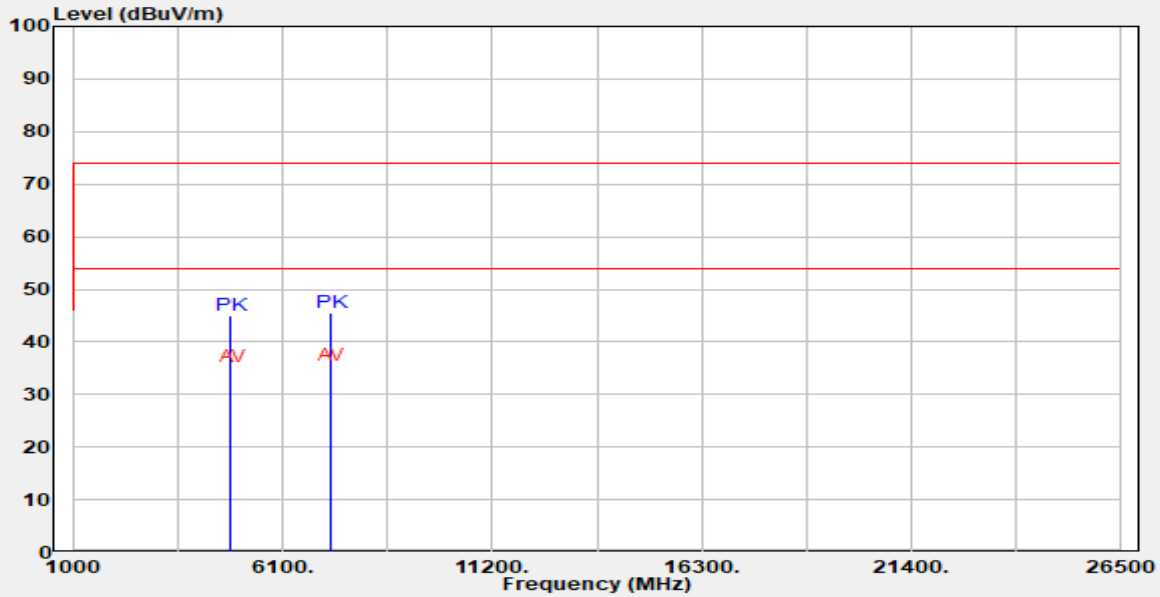
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Report Number :TERF2504001347ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Peak	45.74	-0.62	45.12	74.00	-28.88
4824.00	Average	35.78	-0.62	35.16	54.00	-18.84
7236.00	Peak	40.62	5.00	45.62	74.00	-28.38
7236.00	Average	30.50	5.00	35.50	54.00	-18.50

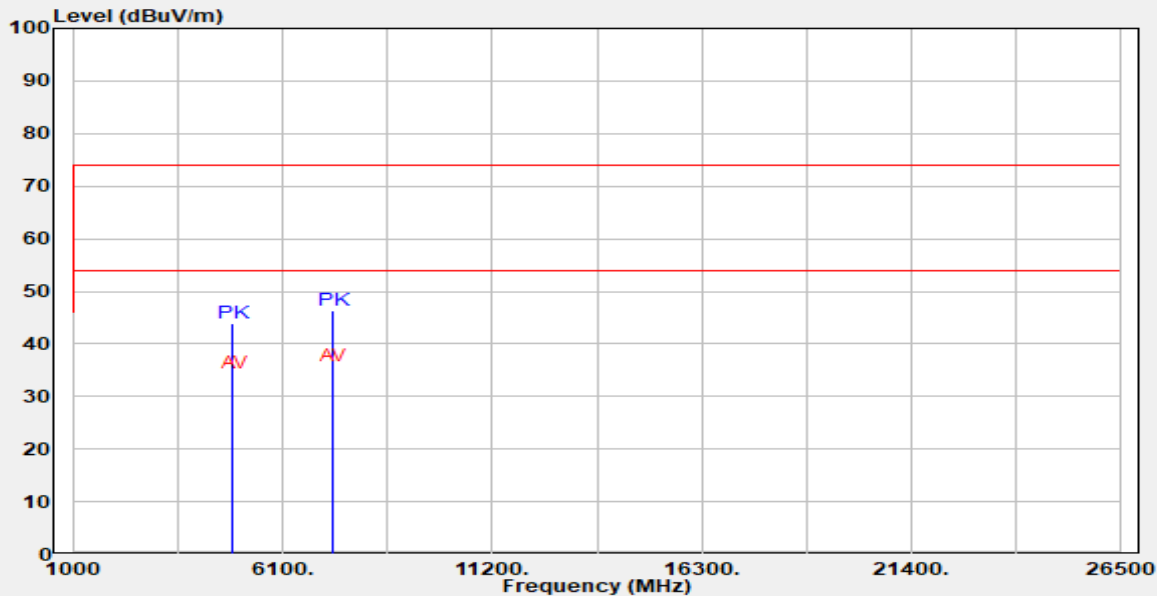
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Report Number :TERF2504001347ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



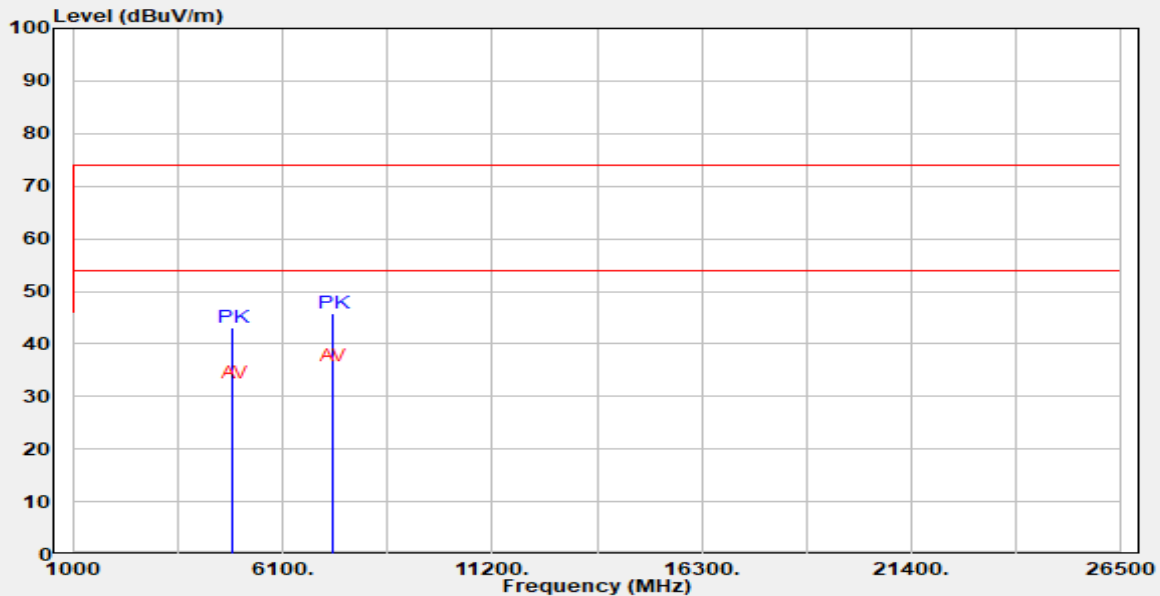
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Peak	44.49	-0.66	43.83	74.00	-30.17
4874.00	Average	34.96	-0.66	34.30	54.00	-19.70
7311.00	Peak	41.18	5.22	46.40	74.00	-27.60
7311.00	Average	30.65	5.22	35.87	54.00	-18.13

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Report Number :TERF2504001347ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



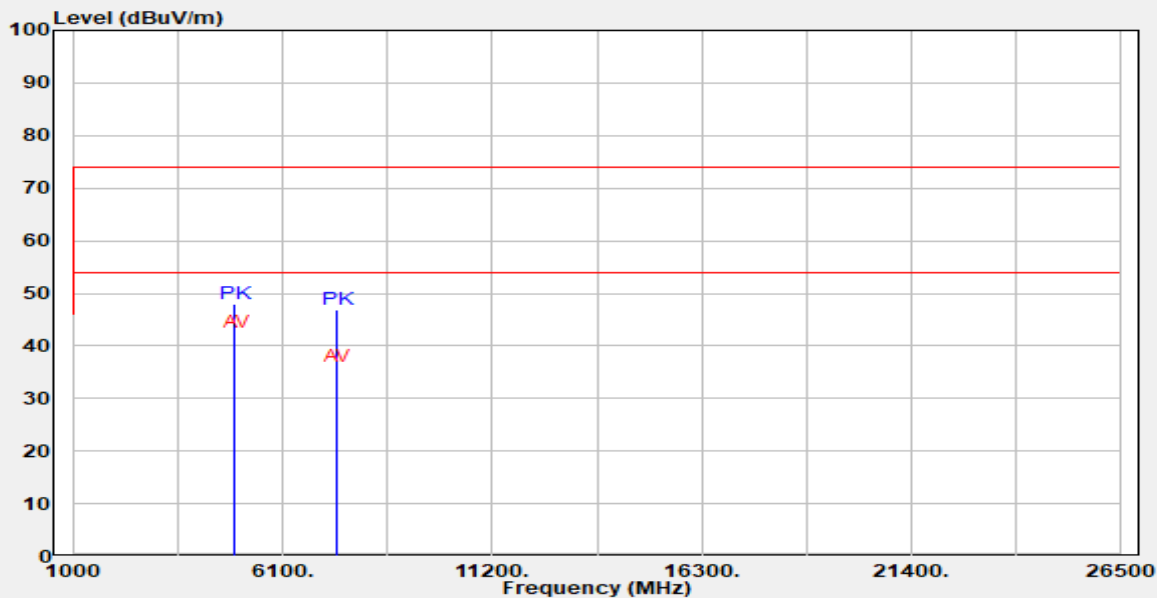
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Peak	43.78	-0.66	43.12	74.00	-30.88
4874.00	Average	33.05	-0.66	32.39	54.00	-21.61
7311.00	Peak	40.49	5.22	45.71	74.00	-28.29
7311.00	Average	30.63	5.22	35.85	54.00	-18.15

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Report Number :TERF2504001347ER
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2025-05-08
Temp./Humi. :23.6°C/63%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Peak	48.49	-0.58	47.91	74.00	-26.09
4924.00	Average	43.07	-0.58	42.49	54.00	-11.51
7386.00	Peak	41.81	5.07	46.88	74.00	-27.12
7386.00	Average	31.01	5.07	36.08	54.00	-17.92

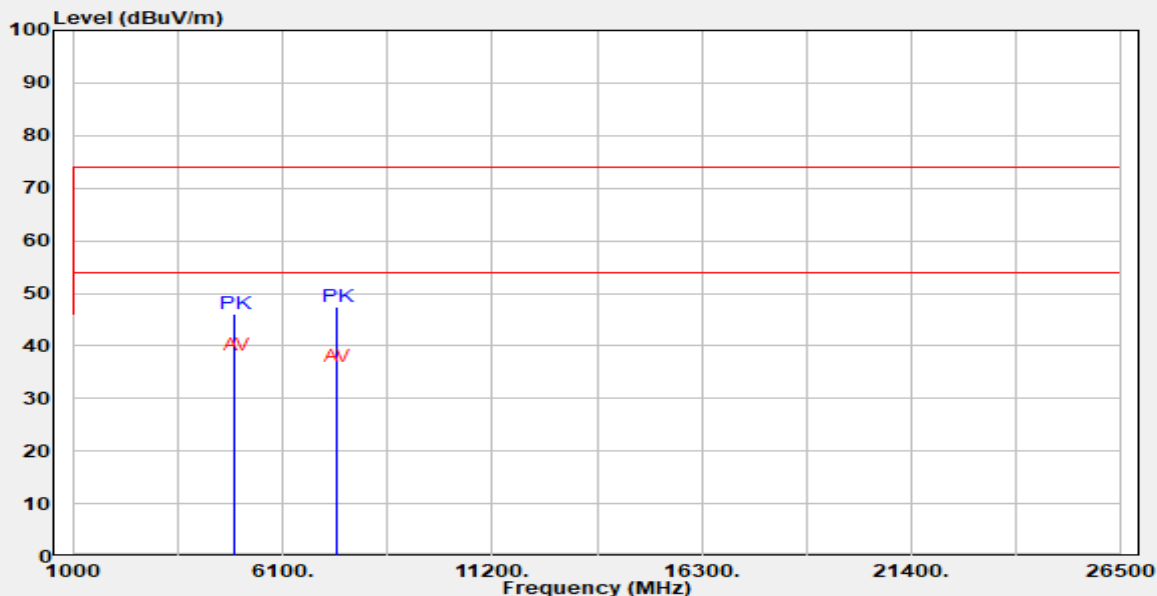
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Report Number :TERF2504001347ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Peak	46.65	-0.58	46.07	74.00	-27.93
4924.00	Average	38.87	-0.58	38.29	54.00	-15.71
7386.00	Peak	42.45	5.07	47.52	74.00	-26.48
7386.00	Average	31.03	5.07	36.10	54.00	-17.90

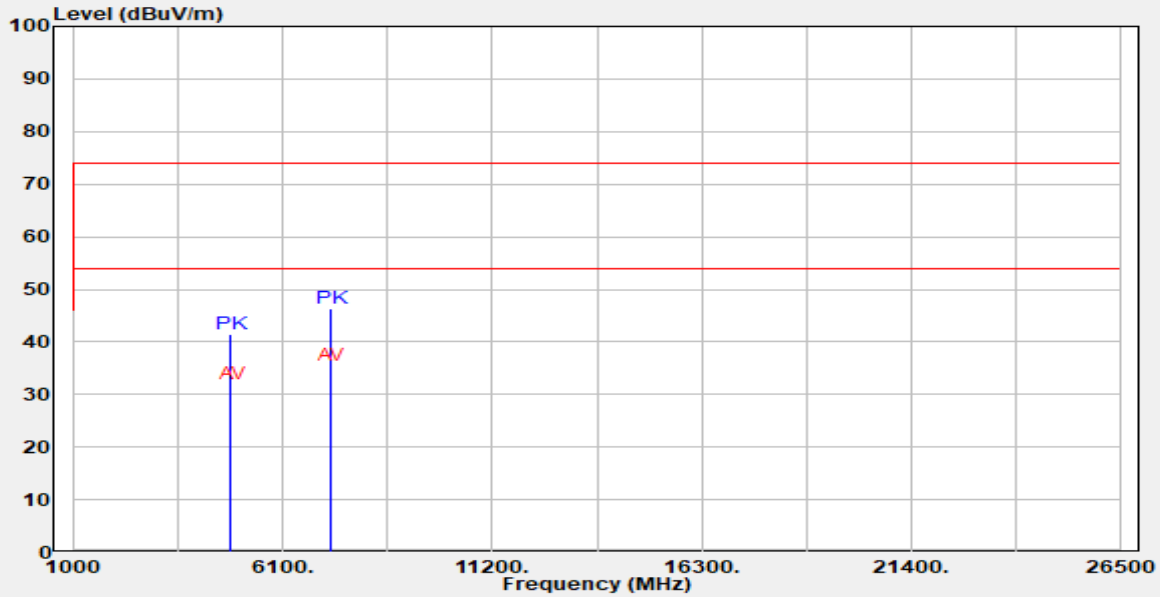
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Report Number :TERF2504001347ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.00	Peak	42.09	-0.62	41.47	74.00	-32.53
4824.00	Average	32.70	-0.62	32.08	54.00	-21.92
7236.00	Peak	41.29	5.00	46.29	74.00	-27.71
7236.00	Average	30.63	5.00	35.63	54.00	-18.37

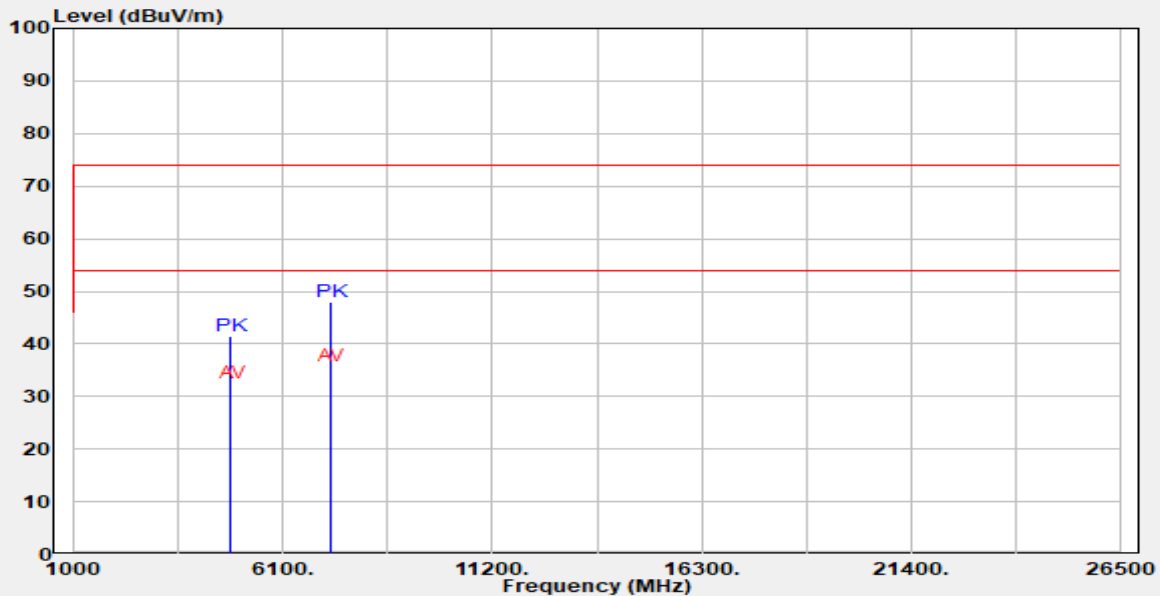
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Report Number :TERF2504001347ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



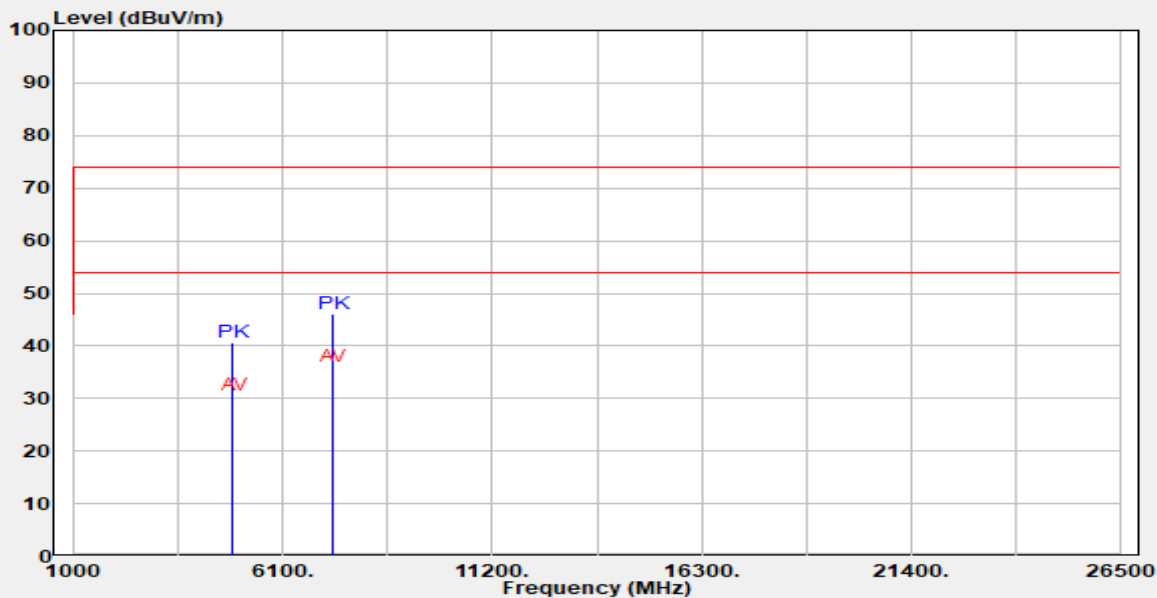
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Peak	42.02	-0.62	41.40	74.00	-32.60
4824.00	Average	33.07	-0.62	32.45	54.00	-21.55
7236.00	Peak	42.88	5.00	47.88	74.00	-26.12
7236.00	Average	30.74	5.00	35.74	54.00	-18.26

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Report Number :TERF2504001347ER
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2025-05-08
Temp./Humi. :23.6°C/63%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Peak	41.35	-0.66	40.69	74.00	-33.31
4874.00	Average	31.39	-0.66	30.73	54.00	-23.27
7311.00	Peak	40.92	5.22	46.14	74.00	-27.86
7311.00	Average	30.70	5.22	35.92	54.00	-18.08

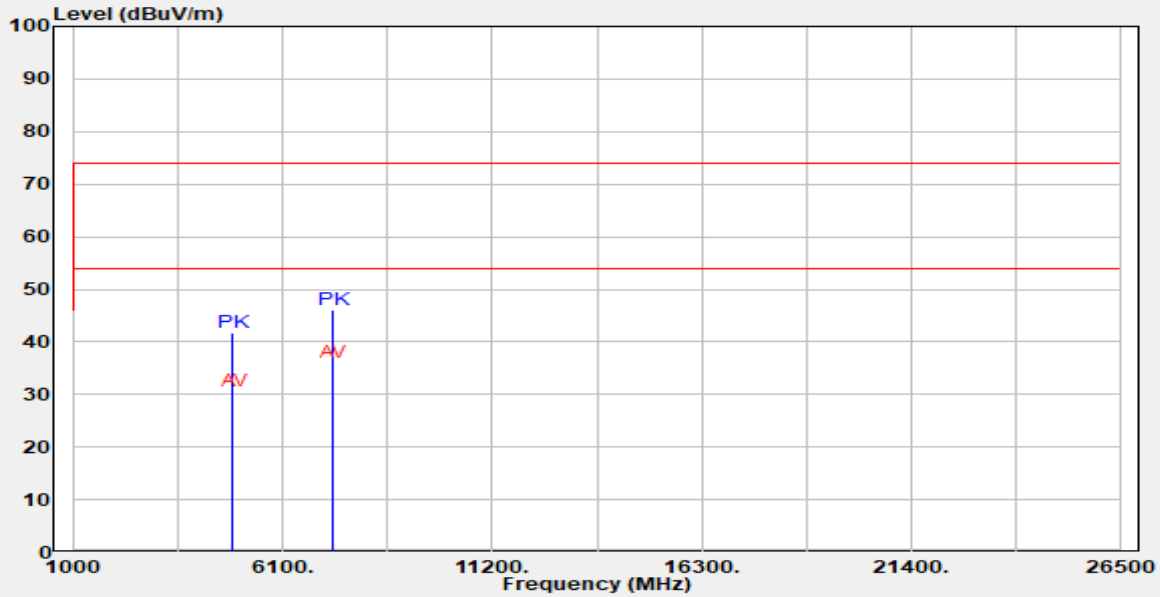
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Report Number :TERF2504001347ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Peak	42.45	-0.66	41.79	74.00	-32.21
4874.00	Average	31.31	-0.66	30.65	54.00	-23.35
7311.00	Peak	40.92	5.22	46.14	74.00	-27.86
7311.00	Average	30.69	5.22	35.91	54.00	-18.09

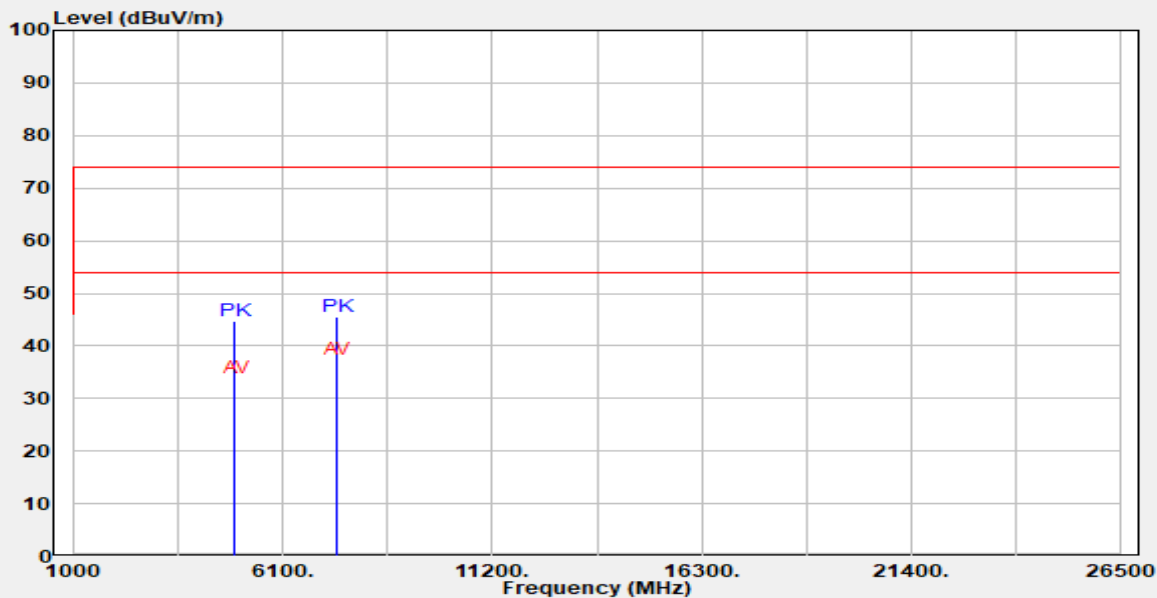
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Report Number :TERF2504001347ER
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2025-05-08
Temp./Humi. :23.6°C/63%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Peak	45.17	-0.58	44.59	74.00	-29.41
4924.00	Average	34.56	-0.58	33.98	54.00	-20.02
7386.00	Peak	40.45	5.07	45.52	74.00	-28.48
7386.00	Average	32.27	5.07	37.34	54.00	-16.66

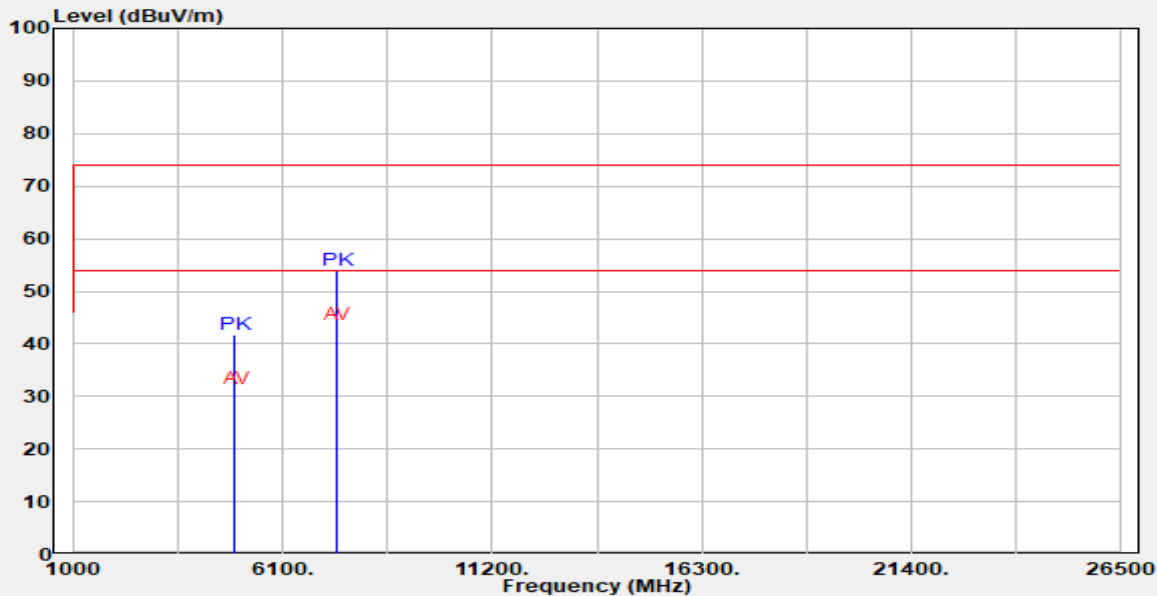
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Report Number :TERF2504001347ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



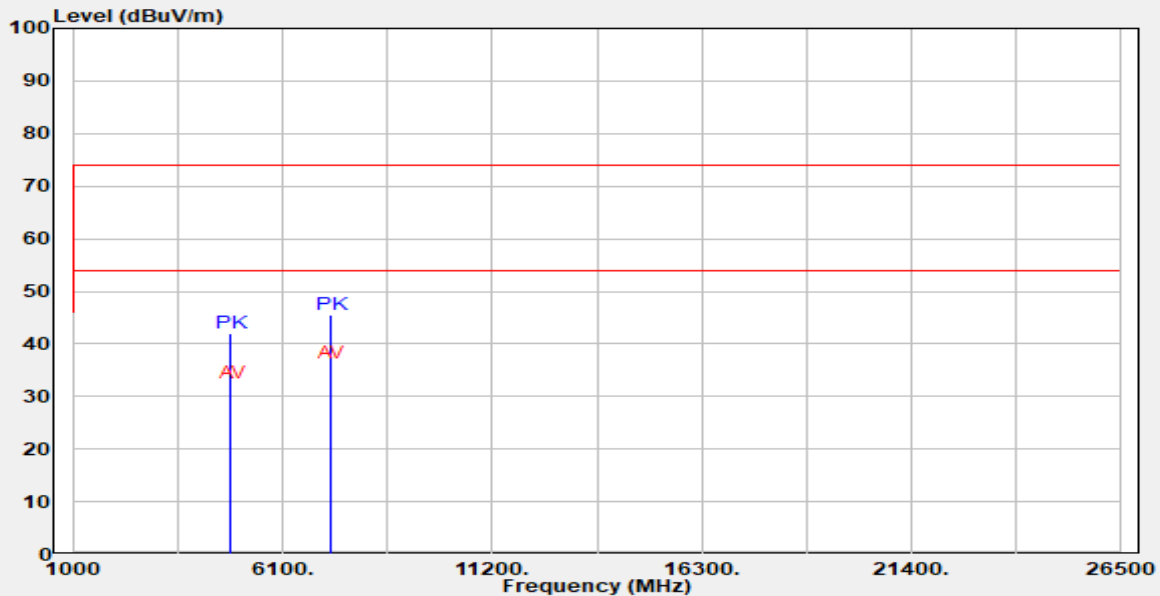
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MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Peak	42.34	-0.58	41.76	74.00	-32.24
4924.00	Average	32.11	-0.58	31.53	54.00	-22.47
7386.00	Peak	48.73	5.07	53.80	74.00	-20.20
7386.00	Average	38.47	5.07	43.54	54.00	-10.46

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



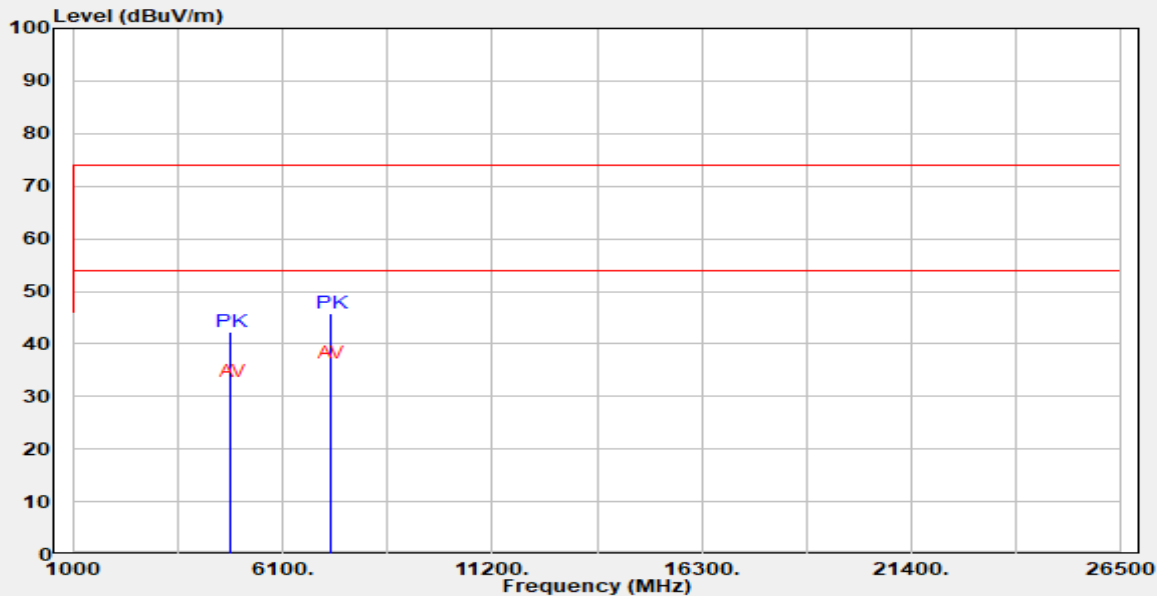
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Peak	42.76	-0.62	42.14	74.00	-31.86
4824.00	Average	33.27	-0.62	32.65	54.00	-21.35
7236.00	Peak	40.51	5.00	45.51	74.00	-28.49
7236.00	Average	31.24	5.00	36.24	54.00	-17.76

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



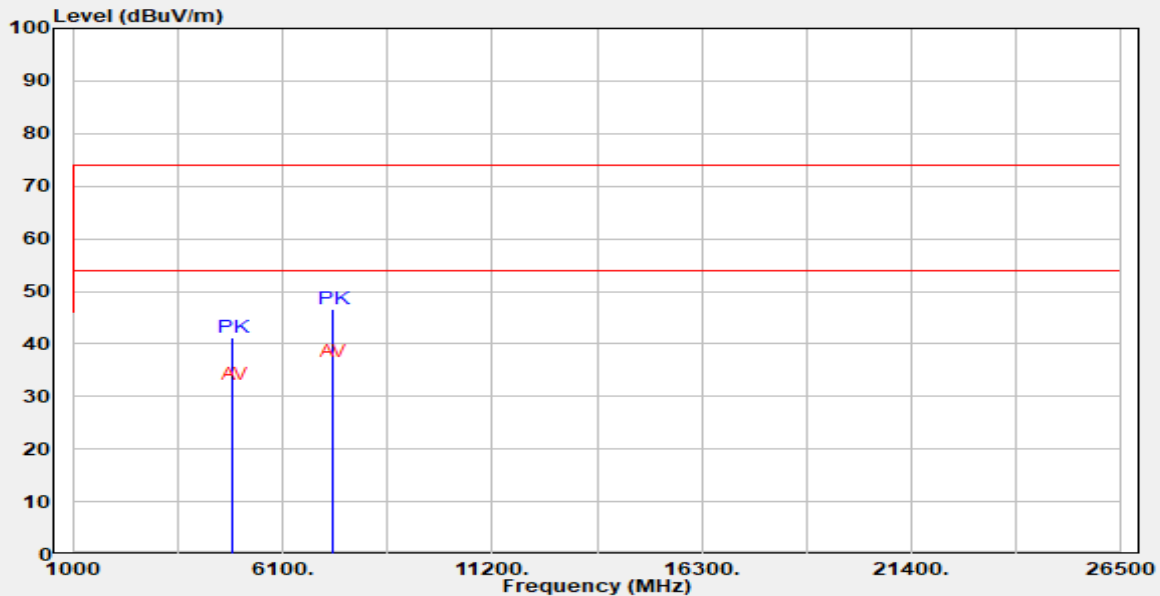
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Peak	42.90	-0.62	42.28	74.00	-31.72
4824.00	Average	33.51	-0.62	32.89	54.00	-21.11
7236.00	Peak	40.78	5.00	45.78	74.00	-28.22
7236.00	Average	31.34	5.00	36.34	54.00	-17.66

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



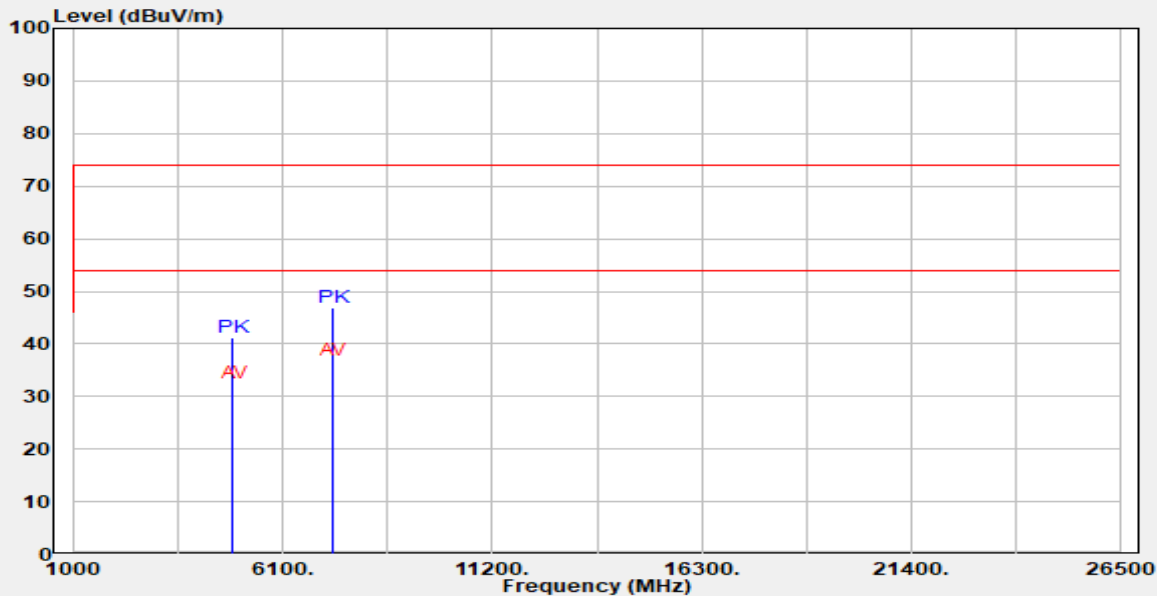
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Peak	41.96	-0.66	41.30	74.00	-32.70
4874.00	Average	32.78	-0.66	32.12	54.00	-21.88
7311.00	Peak	41.42	5.22	46.64	74.00	-27.36
7311.00	Average	31.40	5.22	36.62	54.00	-17.38

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



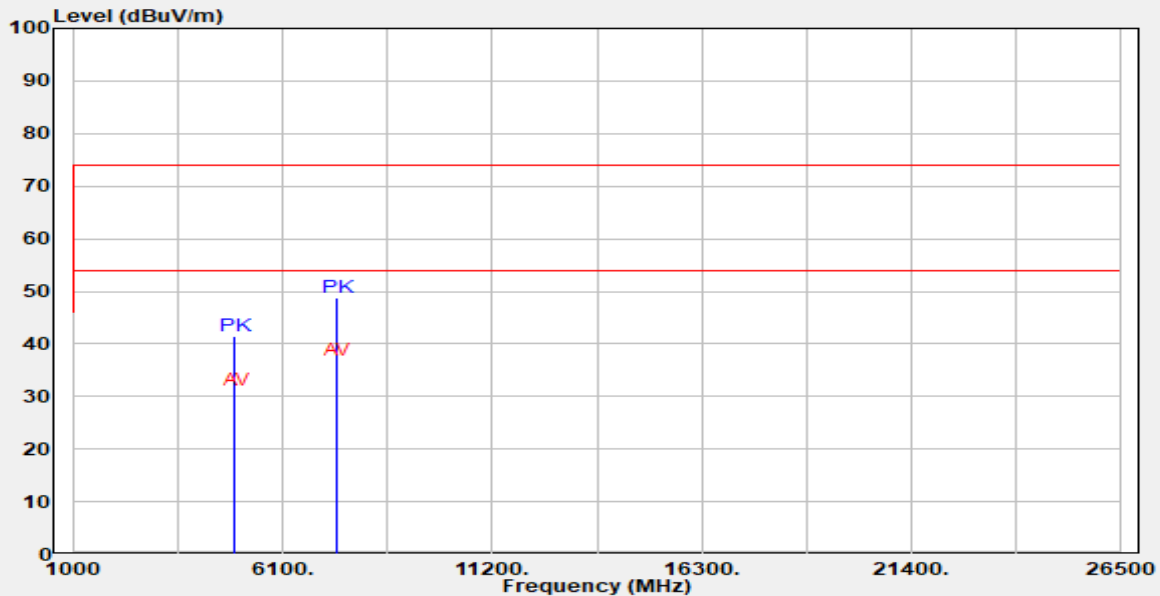
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Peak	41.78	-0.66	41.12	74.00	-32.88
4874.00	Average	33.05	-0.66	32.39	54.00	-21.61
7311.00	Peak	41.74	5.22	46.96	74.00	-27.04
7311.00	Average	31.52	5.22	36.74	54.00	-17.26

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



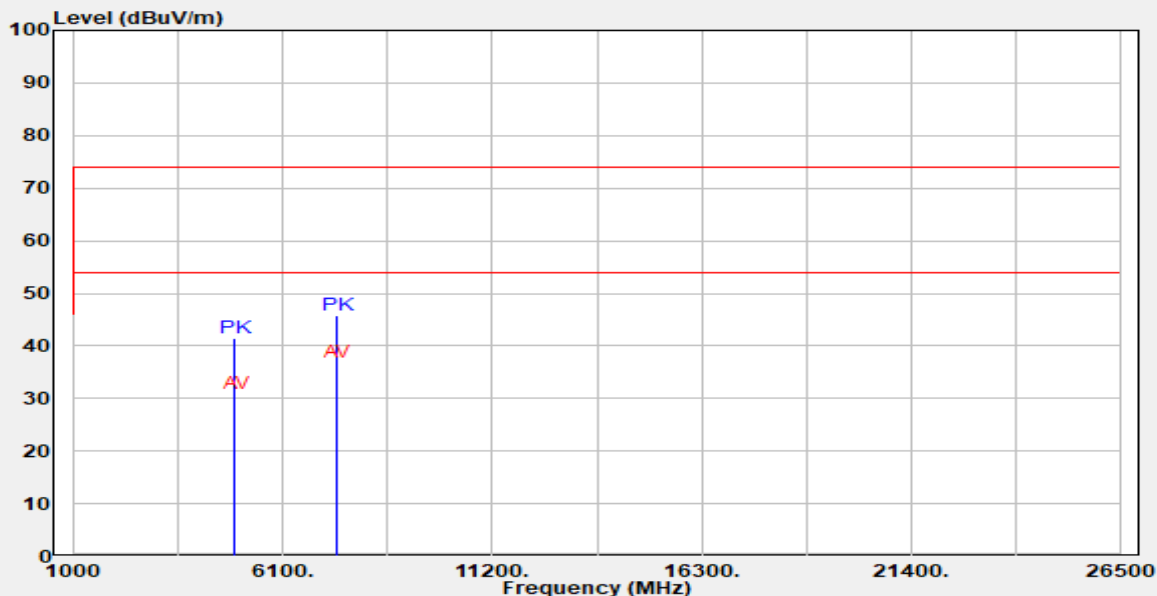
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Peak	42.11	-0.58	41.53	74.00	-32.47
4924.00	Average	31.83	-0.58	31.25	54.00	-22.75
7386.00	Peak	43.77	5.07	48.84	74.00	-25.16
7386.00	Average	31.73	5.07	36.80	54.00	-17.20

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Report Number :TERF2504001347ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Peak	42.01	-0.58	41.43	74.00	-32.57
4924.00	Average	31.60	-0.58	31.02	54.00	-22.98
7386.00	Peak	40.81	5.07	45.88	74.00	-28.12
7386.00	Average	31.68	5.07	36.75	54.00	-17.25

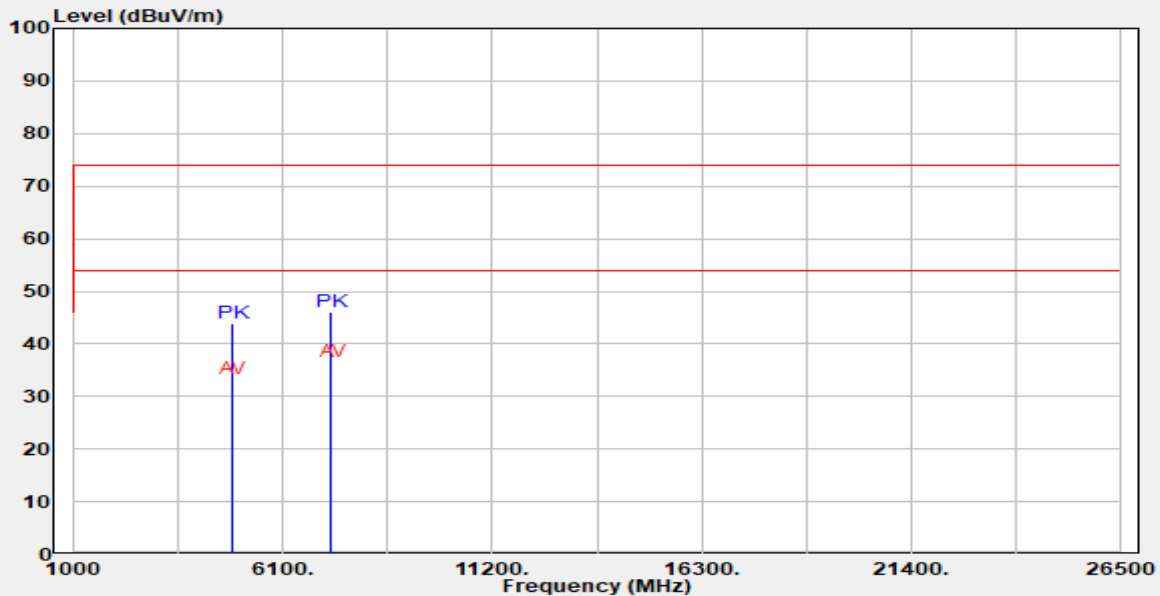
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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



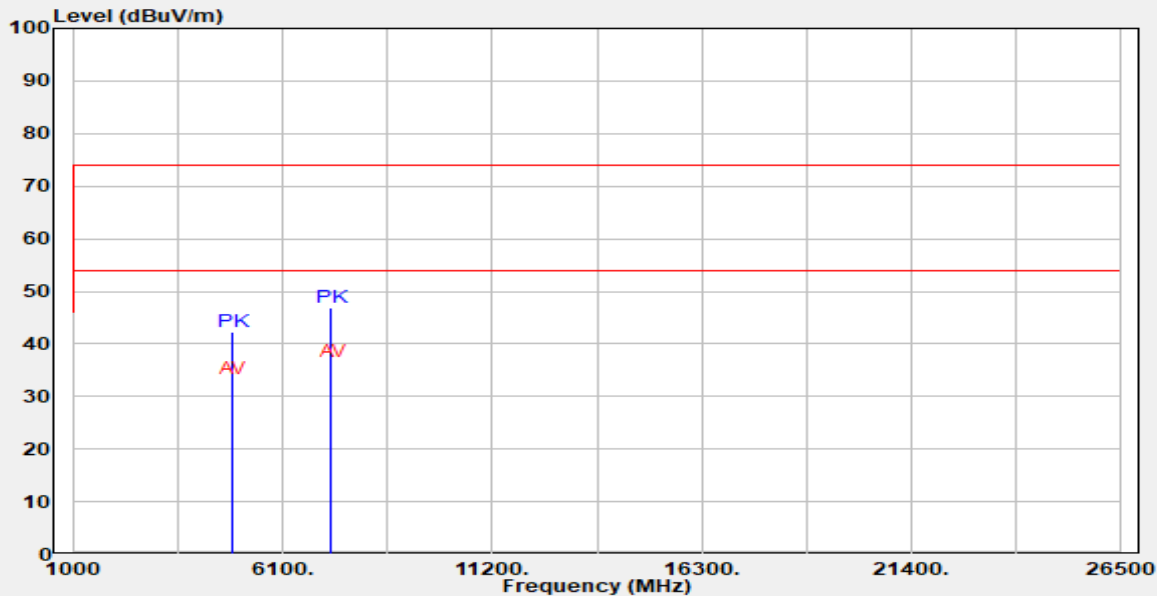
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4844.00	Peak	44.56	-0.67	43.89	74.00	-30.11
4844.00	Average	33.94	-0.67	33.27	54.00	-20.73
7266.00	Peak	40.97	5.10	46.07	74.00	-27.93
7266.00	Average	31.59	5.10	36.69	54.00	-17.31

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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



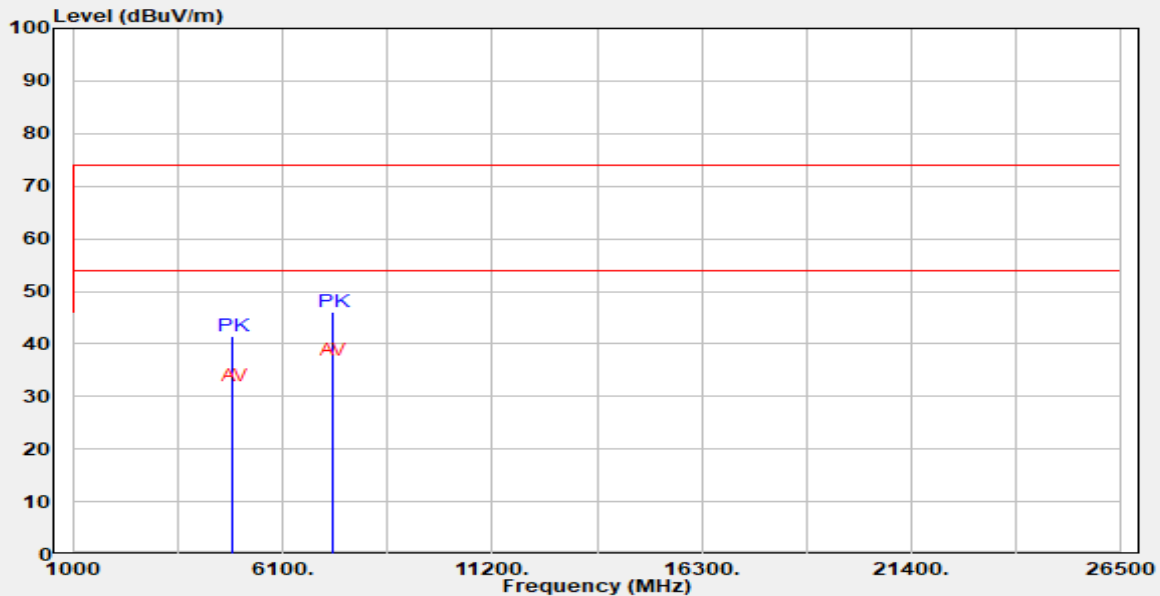
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4844.00	Peak	43.00	-0.67	42.33	74.00	-31.67
4844.00	Average	33.92	-0.67	33.25	54.00	-20.75
7266.00	Peak	41.70	5.10	46.80	74.00	-27.20
7266.00	Average	31.57	5.10	36.67	54.00	-17.33

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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



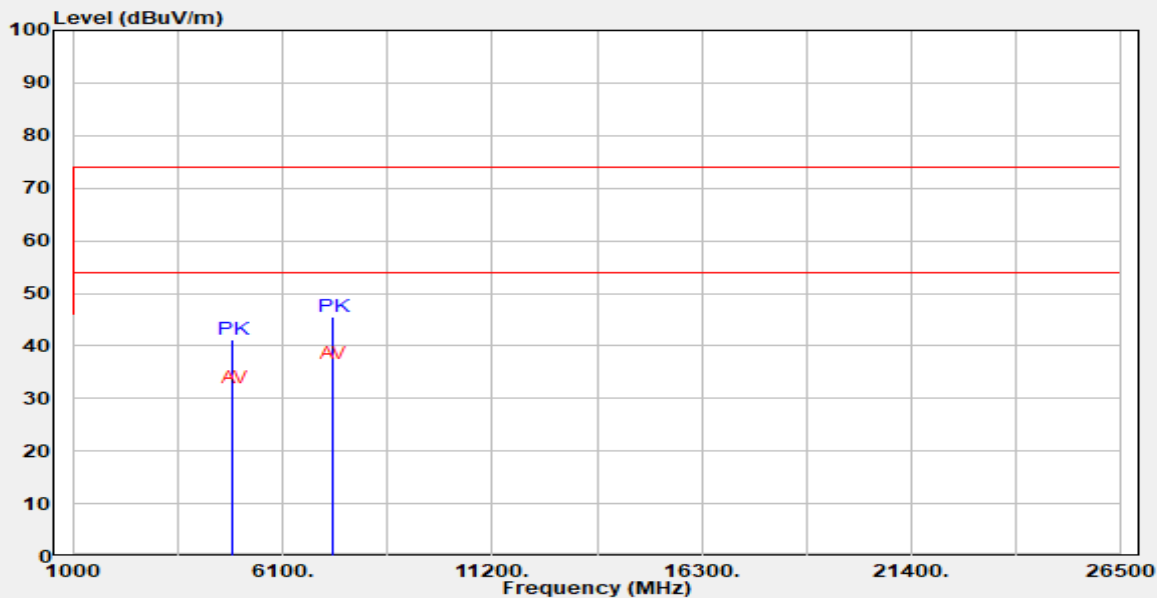
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Peak	42.00	-0.66	41.34	74.00	-32.66
4874.00	Average	32.65	-0.66	31.99	54.00	-22.01
7311.00	Peak	40.81	5.22	46.03	74.00	-27.97
7311.00	Average	31.55	5.22	36.77	54.00	-17.23

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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Peak	41.94	-0.66	41.28	74.00	-32.72
4874.00	Average	32.58	-0.66	31.92	54.00	-22.08
7311.00	Peak	40.38	5.22	45.60	74.00	-28.40
7311.00	Average	31.50	5.22	36.72	54.00	-17.28

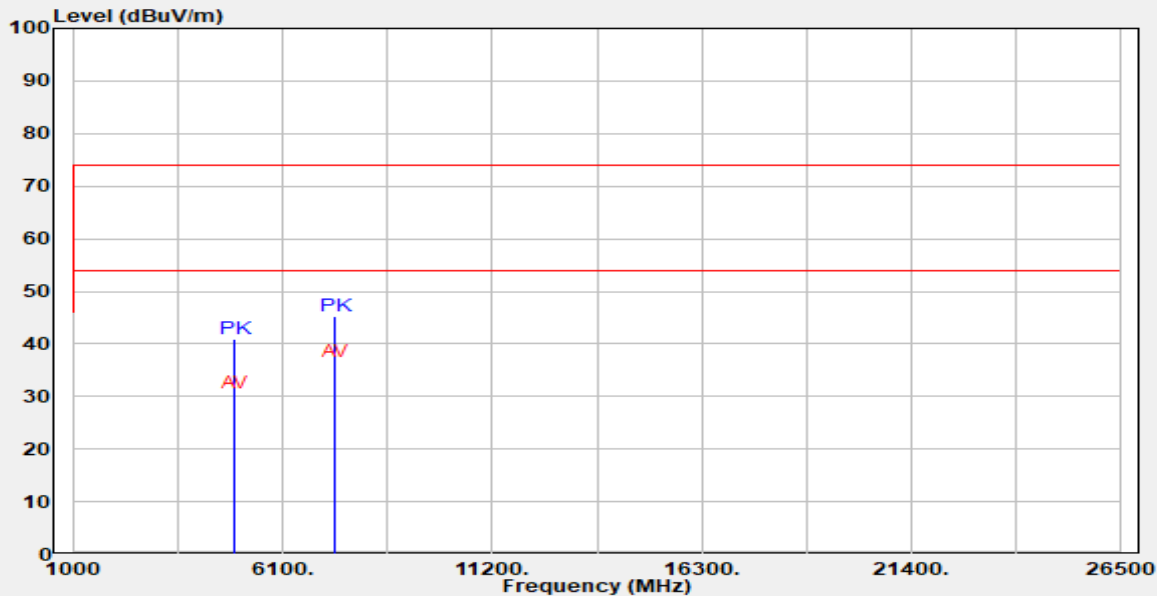
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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



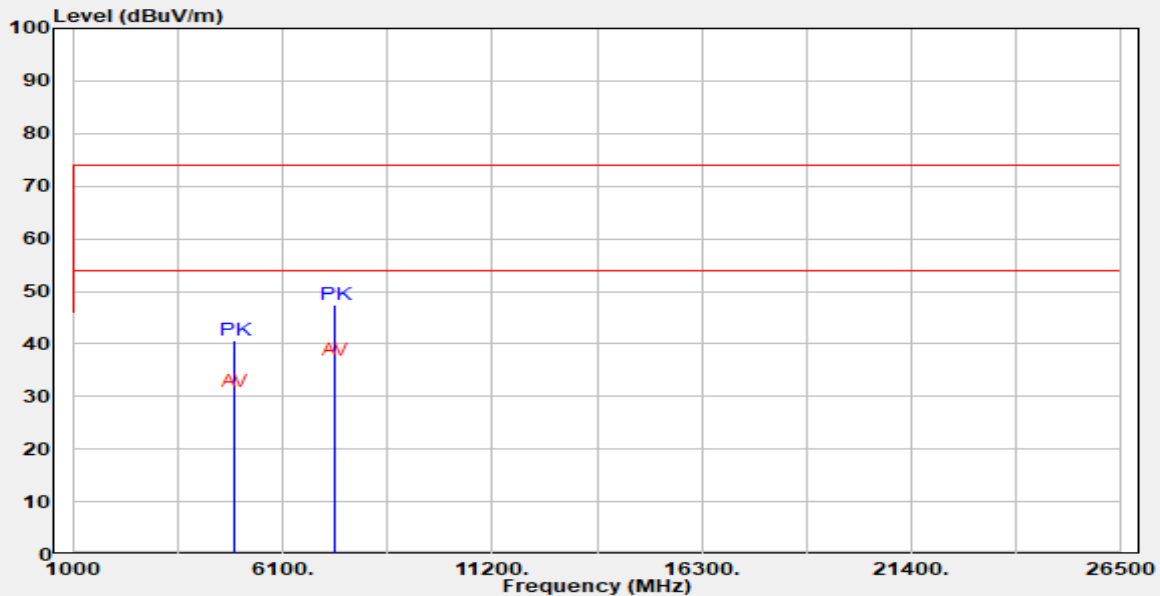
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4904.00	Peak	41.49	-0.66	40.83	74.00	-33.17
4904.00	Average	31.34	-0.66	30.68	54.00	-23.32
7356.00	Peak	40.24	5.10	45.34	74.00	-28.66
7356.00	Average	31.60	5.10	36.70	54.00	-17.30

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Report Number :TERF2504001347ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-08
 Temp./Humi. :23.6°C/63%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4904.00	Peak	41.38	-0.66	40.72	74.00	-33.28
4904.00	Average	31.51	-0.66	30.85	54.00	-23.15
7356.00	Peak	42.32	5.10	47.42	74.00	-26.58
7356.00	Average	31.63	5.10	36.73	54.00	-17.27

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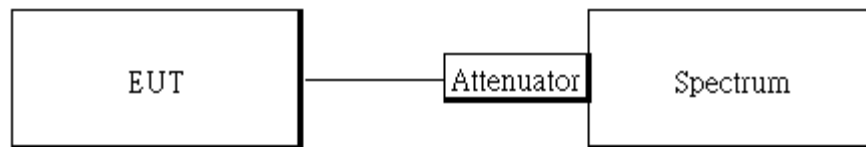
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Test Setup



12.3 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Note:

1. When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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12.4 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-10.7	-10.70	8.00	PASS
2437	-10.14	-10.14	8.00	PASS
2462	-10.62	-10.62	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.07	-14.07	8.00	PASS
2437	-13.35	-13.35	8.00	PASS
2462	-14.24	-14.24	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-15.19	-15.19	8.00	PASS
2437	-15.54	-15.54	8.00	PASS
2462	-15.47	-15.47	8.00	PASS

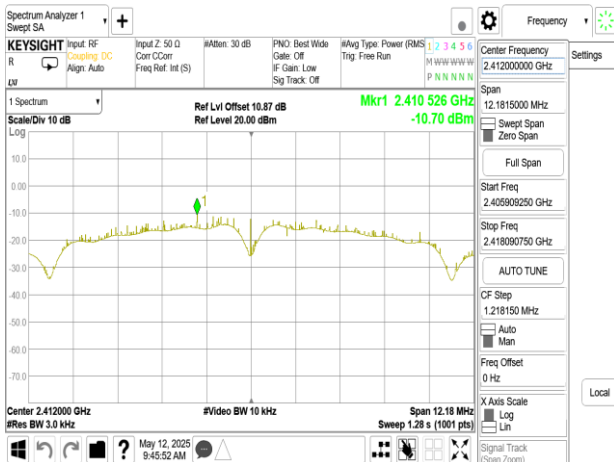
POWER DENSITY 802.11n HT40				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-17.06	-17.06	8.00	PASS
2437	-18.22	-18.22	8.00	PASS
2452	-17.57	-17.57	8.00	PASS

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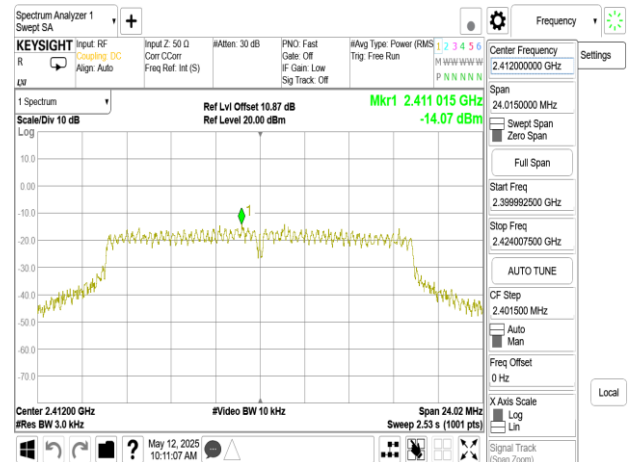
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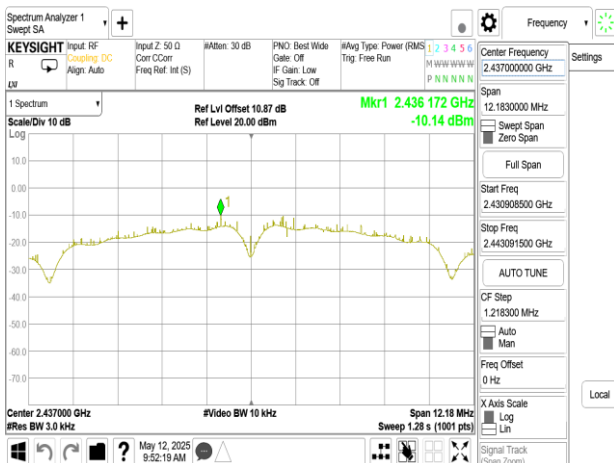
802.11b_20MHz_Chain0_2412MHz



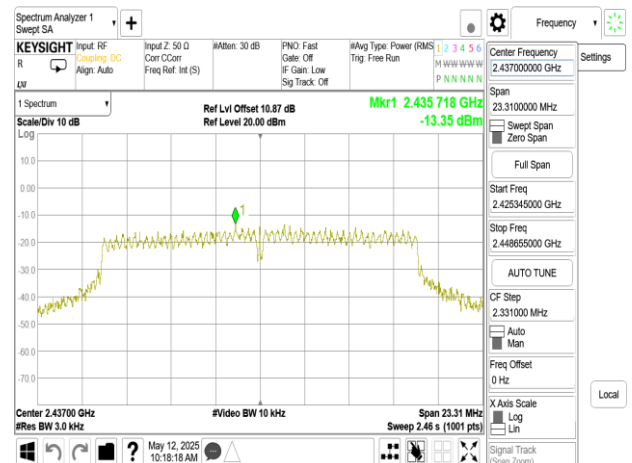
802.11g_20MHz_Chain0_2412MHz



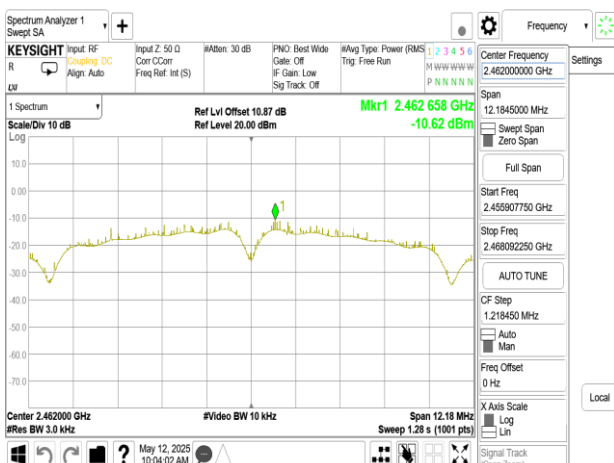
802.11b_20MHz_Chain0_2437MHz



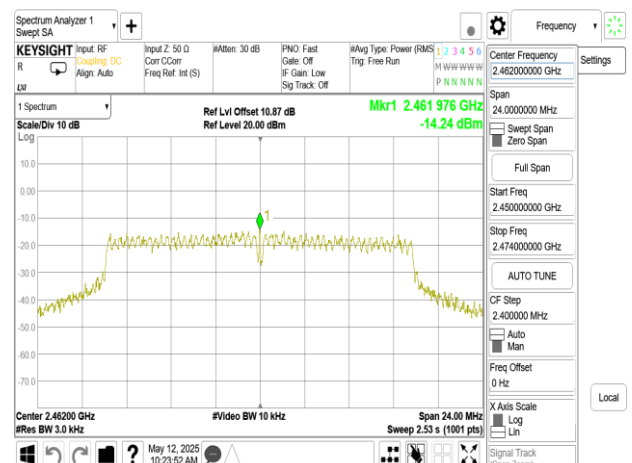
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

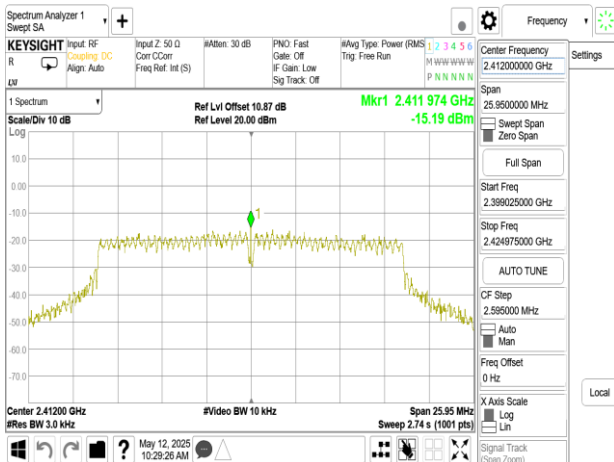


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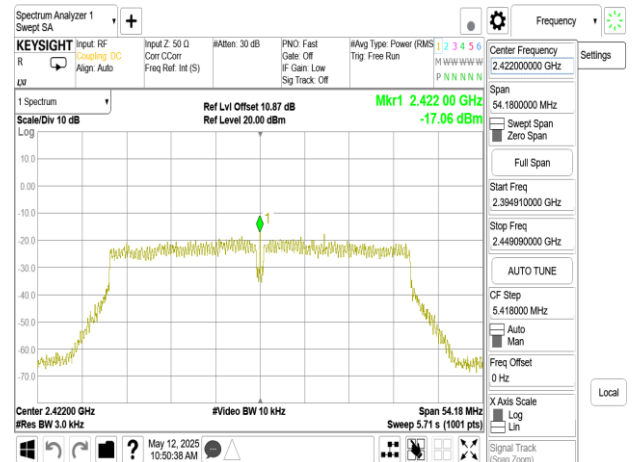
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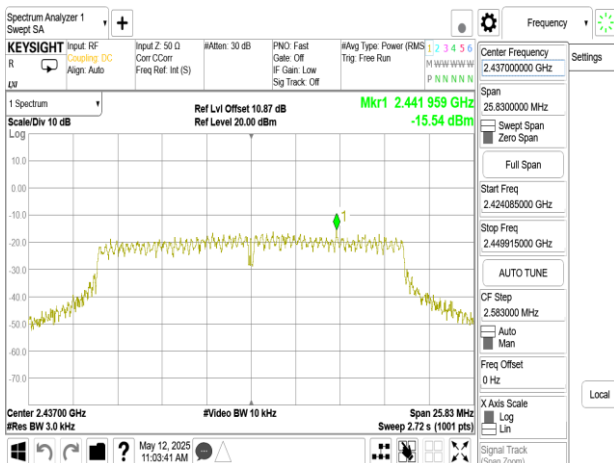
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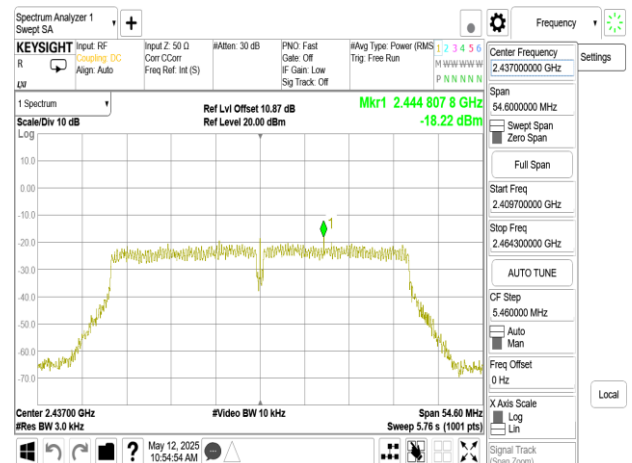
802.11n_40MHz_Chain0_2422MHz



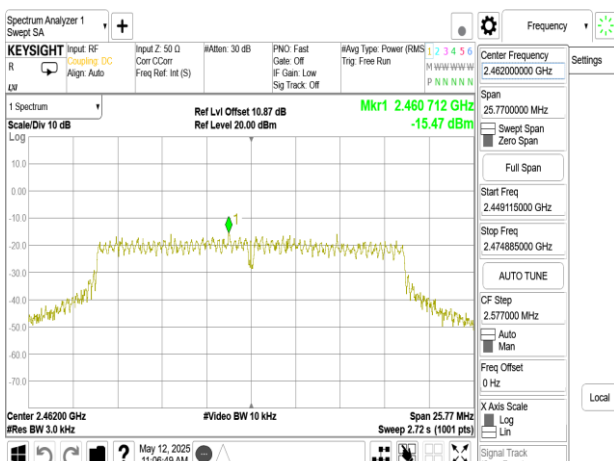
802.11n_20MHz_Chain0_2437MHz



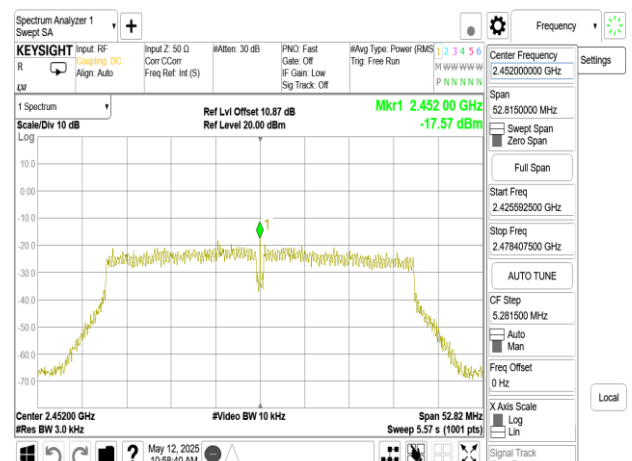
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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