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11 RADIATED 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:

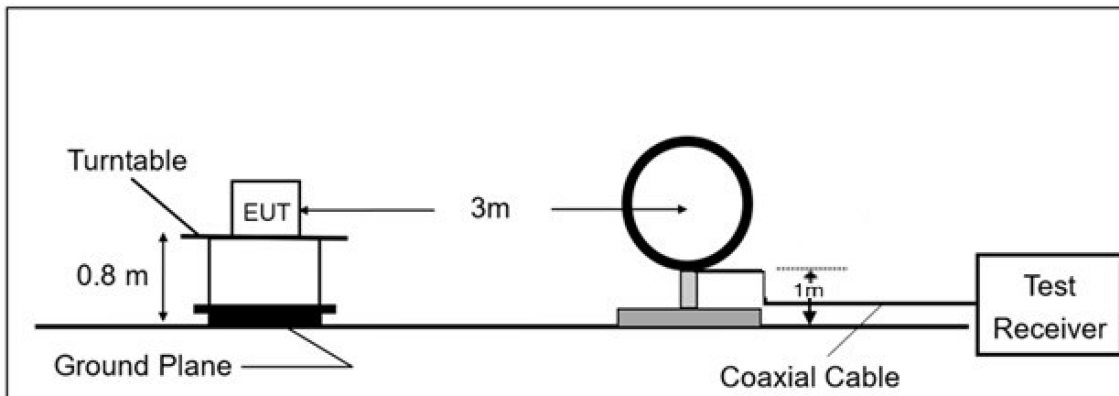
1. The lower limit shall apply at the transition frequencies.

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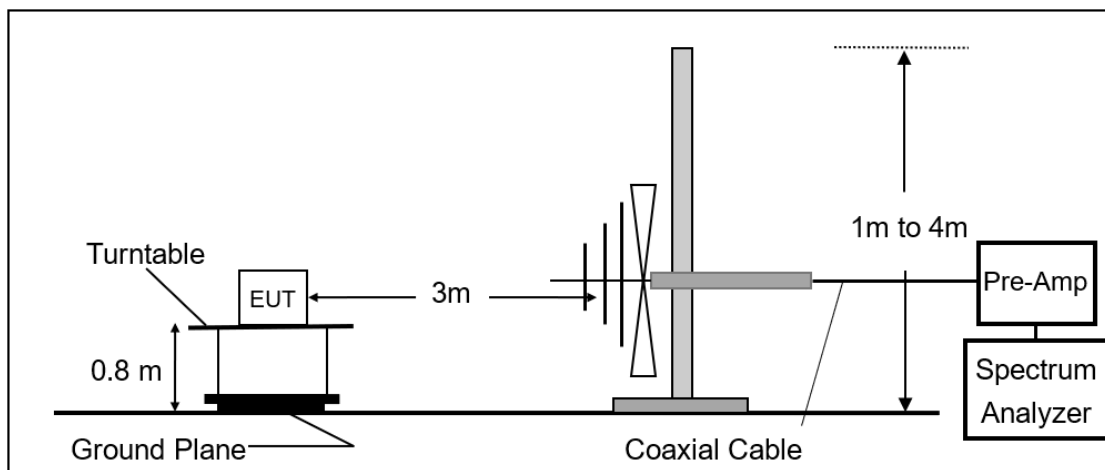
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11.2 Test Setup

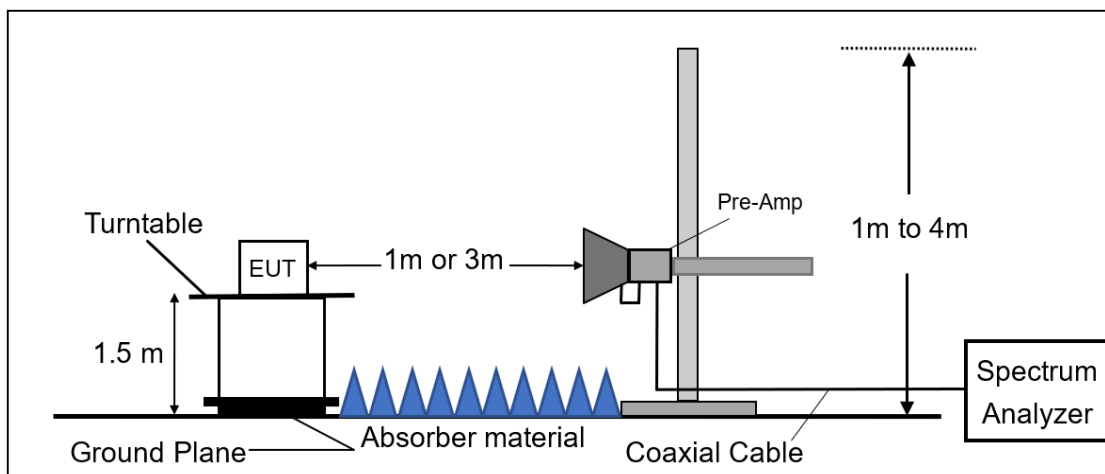
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz **when $D \geq 98\%$** . If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$ **when $D < 98\%$** for Average Emission Measurements at frequency above 1 GHz.
10. 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.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
13. Repeat above procedures until all default test channel measured were complete.

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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 $20 \cdot \log(uV/m)$

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: Refer to next page spectrum analyzer data chart and tabular data sheets.

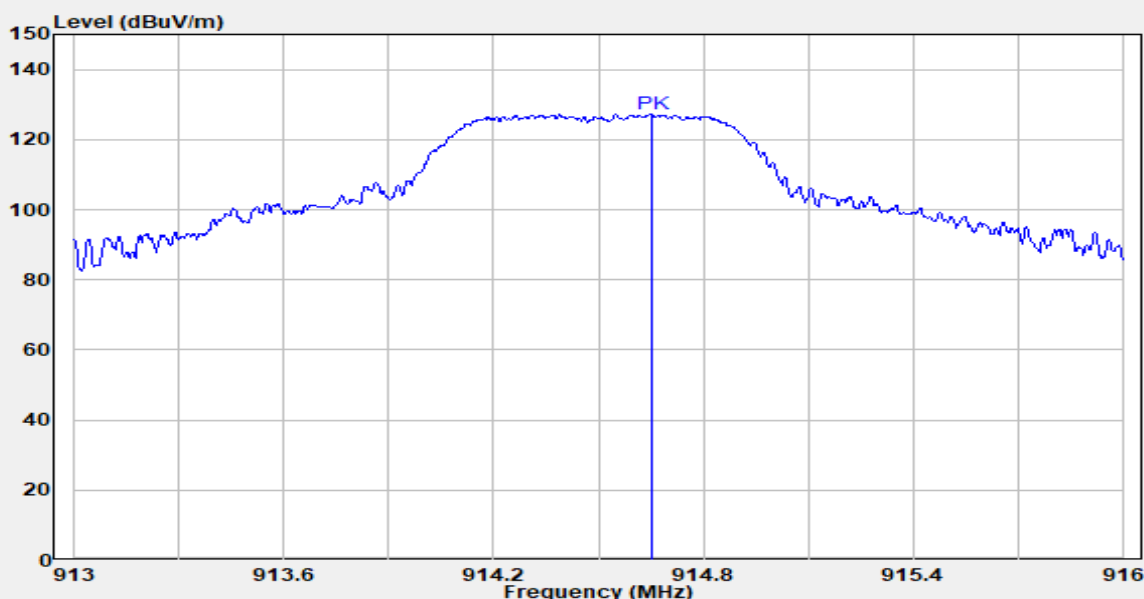
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11.6.1 Radiated Main Measurement Result

Report Number :TERF2505001770ER
 Operation Mode :802.11ah 1M
 Test Frequency :914.5 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-09
 Temp./Humi. :22.8°C/68%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
914.650	Peak	126.28	0.99	127.27	-	-

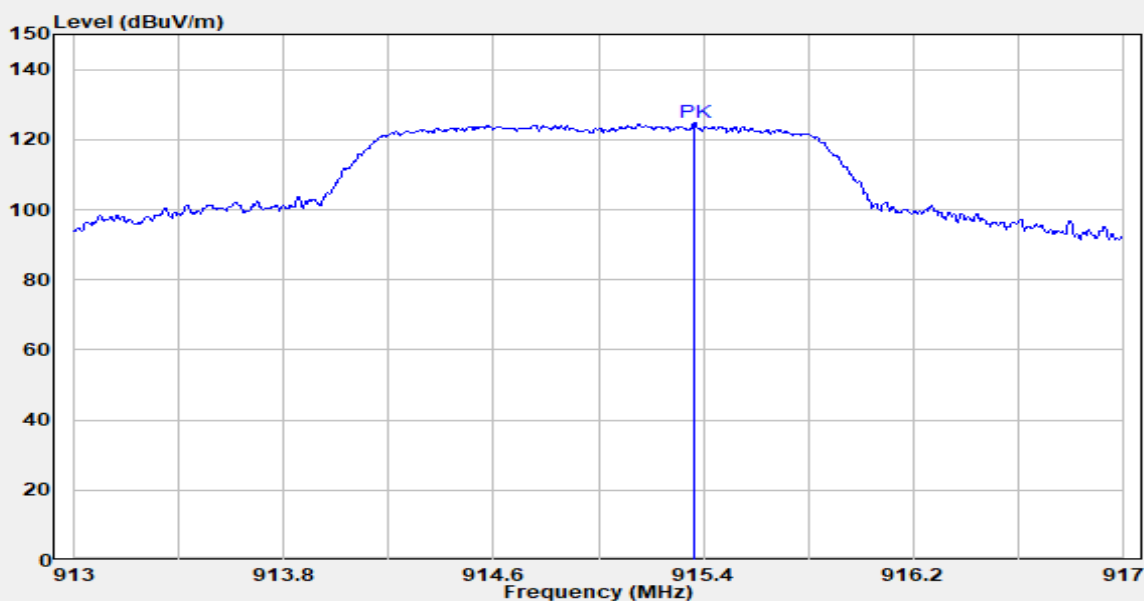
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :915 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-09
Temp./Humi. :22.8°C/68%
Antenna Pol. :Vertical
Engineer :WJ Lin



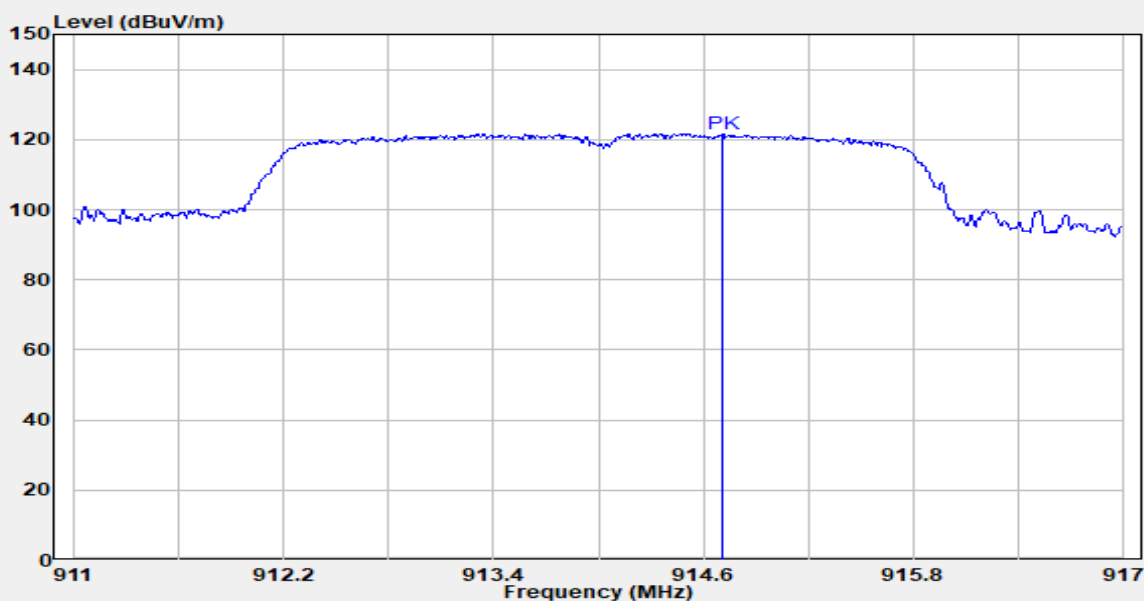
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
915.368	Peak	123.70	1.00	124.69	-	-

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 4M
Test Frequency :914 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-09
Temp./Humi. :22.8°C/68%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
914.714	Peak	120.63	0.99	121.62	-	-

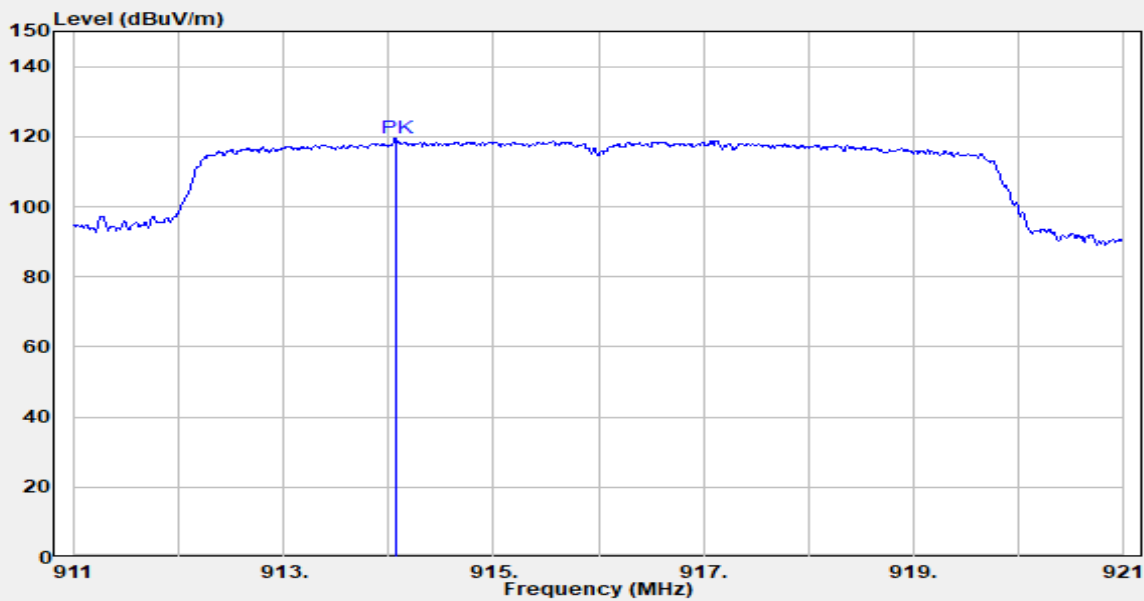
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :916 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-10
 Temp./Humi. :22.8°C/68%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
914.060	Peak	118.55	0.99	119.53	-	-

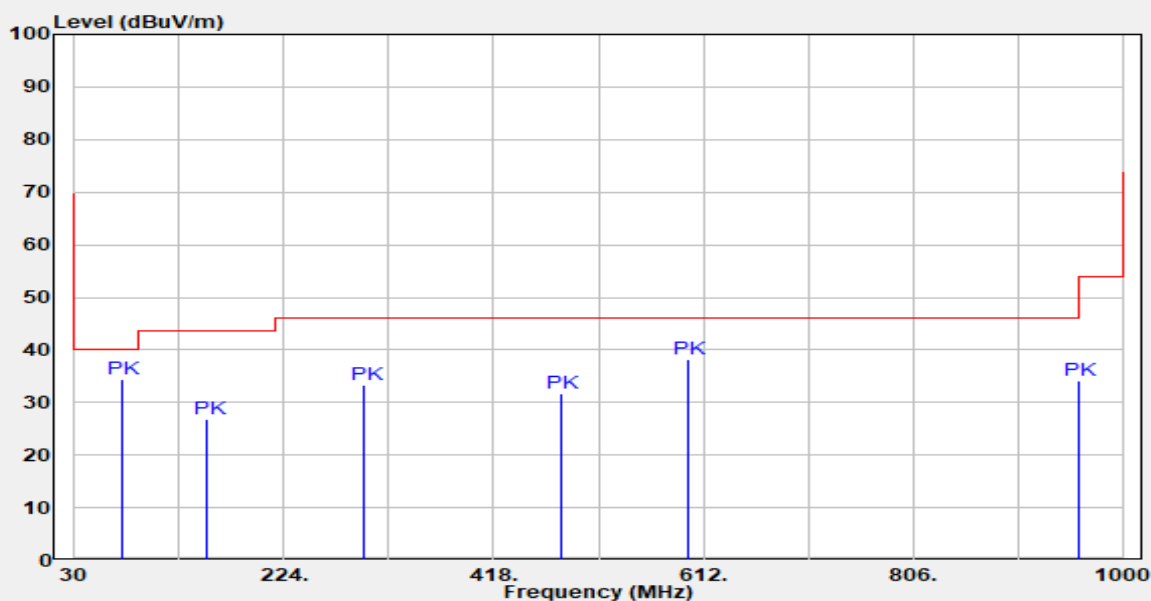
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11.6.2 Radiated Spurious Emission

Report Number :TERF2505001770ER
 Operation Mode :802.11ah 1M
 Test Frequency :902.5 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



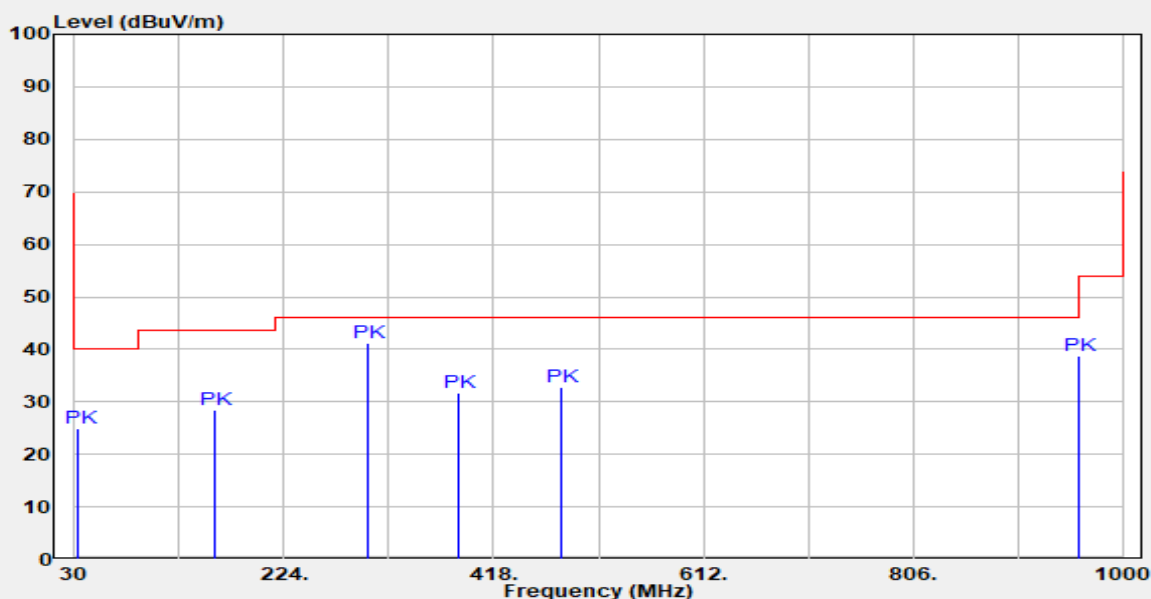
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
73.650	Peak	51.77	-17.28	34.49	40.00	-5.51
153.190	Peak	39.51	-12.65	26.86	43.50	-16.64
298.690	Peak	41.63	-8.36	33.27	46.00	-12.73
480.080	Peak	36.32	-4.58	31.74	46.00	-14.26
598.420	Peak	41.23	-2.94	38.28	46.00	-7.72
960.000	Peak	31.92	2.21	34.13	46.00	-11.87

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 1M
Test Frequency :902.5 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	31.50	-6.63	24.87	40.00	-15.13
159.010	Peak	41.28	-12.77	28.51	43.50	-14.99
301.600	Peak	49.42	-8.33	41.09	46.00	-4.91
385.990	Peak	38.20	-6.56	31.64	46.00	-14.36
480.080	Peak	37.46	-4.58	32.88	46.00	-13.12
960.000	Peak	36.57	2.21	38.78	46.00	-7.22

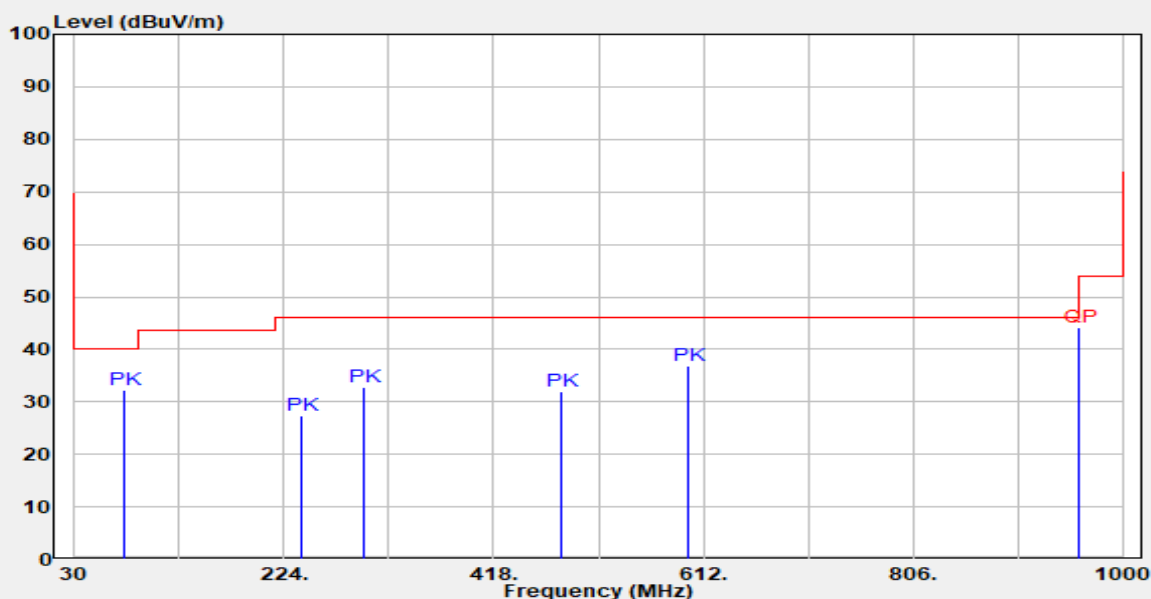
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Operation Mode :802.11ah 1M
Test Frequency :914.5 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
75.590	Peak	49.33	-16.98	32.36	40.00	-7.64
240.490	Peak	38.14	-10.64	27.50	46.00	-18.50
297.720	Peak	41.16	-8.38	32.79	46.00	-13.21
480.080	Peak	36.50	-4.58	31.92	46.00	-14.08
598.420	Peak	39.75	-2.94	36.80	46.00	-9.20
960.000	QP	41.92	2.21	44.13	46.00	-1.87

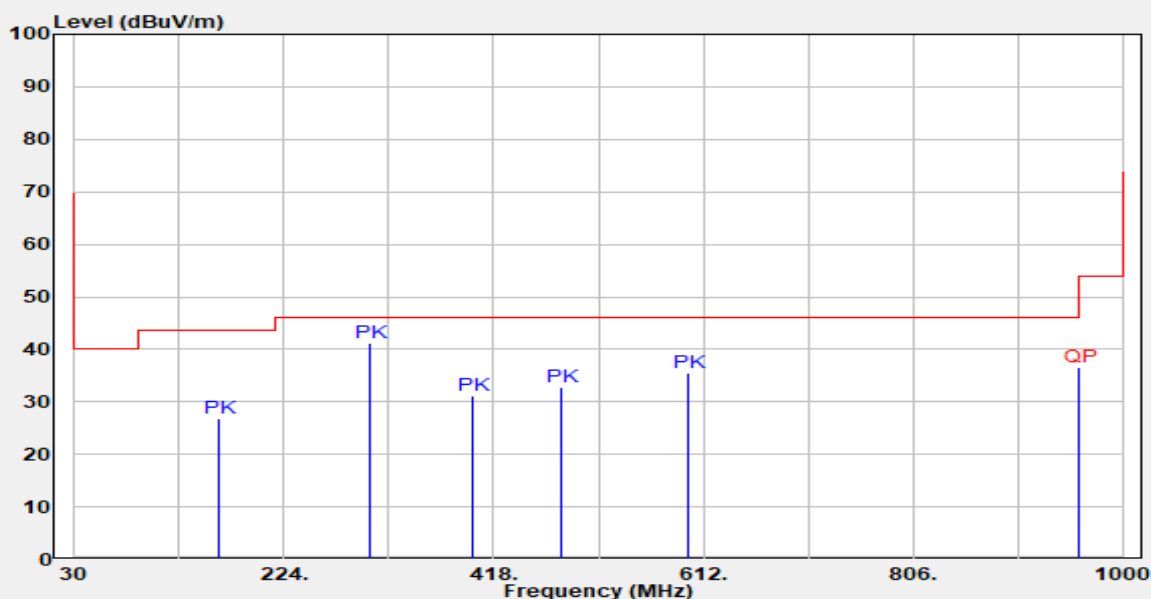
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 1M
 Test Frequency :914.5 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
162.890	Peak	39.81	-12.93	26.88	43.50	-16.62
303.540	Peak	49.39	-8.32	41.07	46.00	-4.93
397.630	Peak	37.33	-6.14	31.20	46.00	-14.80
480.080	Peak	37.41	-4.58	32.83	46.00	-13.17
598.420	Peak	38.47	-2.94	35.53	46.00	-10.47
960.000	QP	34.35	2.21	36.56	46.00	-9.44

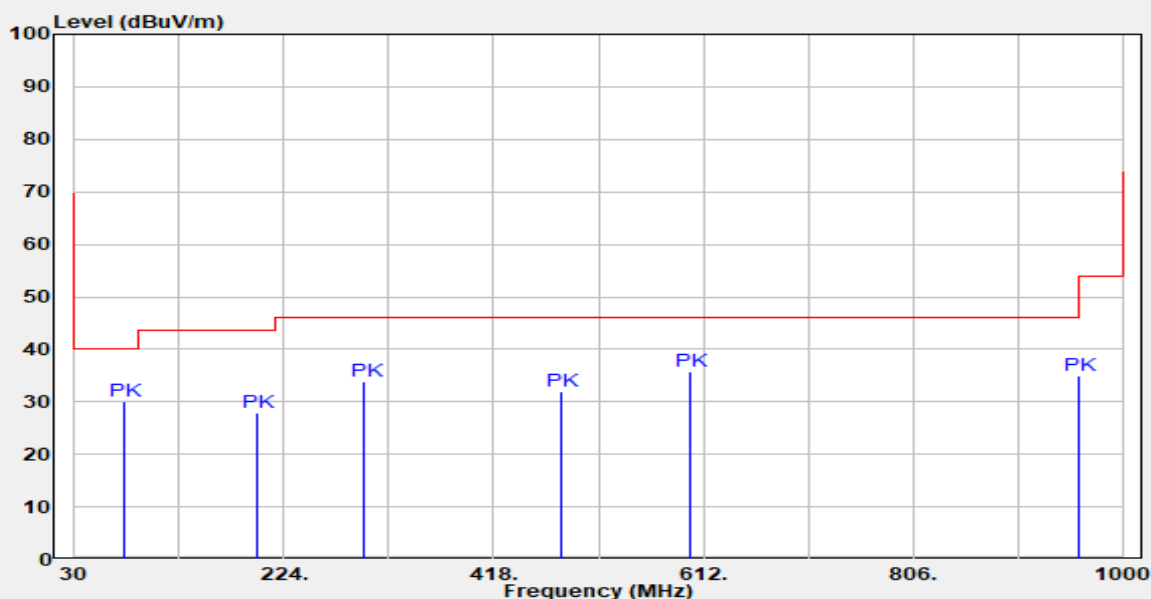
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 1M
 Test Frequency :927.5 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



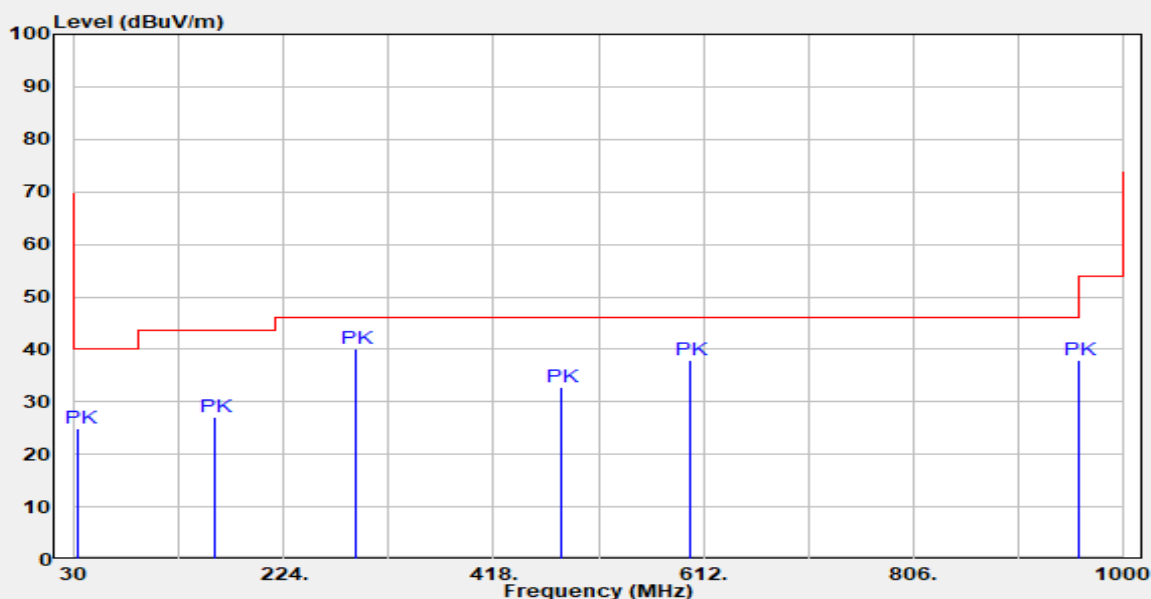
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
75.590	Peak	46.98	-16.98	30.00	40.00	-10.00
199.750	Peak	40.97	-13.12	27.85	43.50	-15.65
298.690	Peak	42.36	-8.36	34.00	46.00	-12.00
480.080	Peak	36.62	-4.58	32.04	46.00	-13.96
599.390	Peak	38.73	-2.94	35.79	46.00	-10.21
960.000	Peak	32.82	2.21	35.03	46.00	-10.97

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 1M
Test Frequency :927.5 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	31.58	-6.63	24.95	40.00	-15.05
159.980	Peak	39.97	-12.86	27.11	43.50	-16.39
289.960	Peak	48.82	-8.64	40.18	46.00	-5.82
480.080	Peak	37.48	-4.58	32.90	46.00	-13.10
599.390	Peak	40.75	-2.94	37.81	46.00	-8.19
960.000	Peak	35.83	2.21	38.04	46.00	-7.96

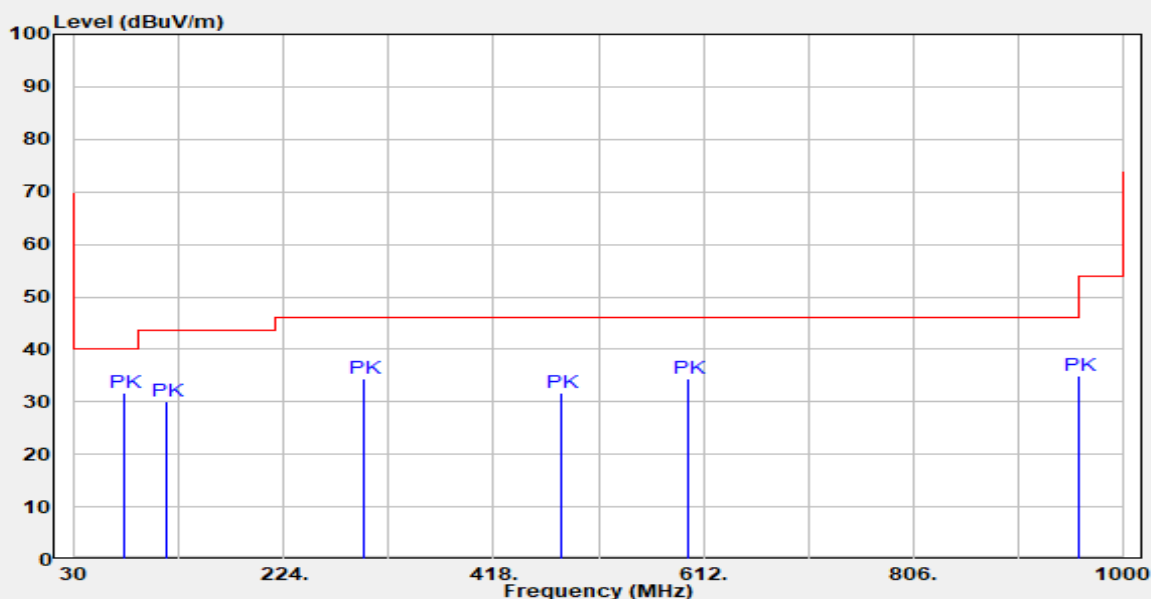
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :903 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
75.590	Peak	48.82	-16.98	31.84	40.00	-8.16
114.390	Peak	41.37	-11.36	30.02	43.50	-13.48
297.720	Peak	42.83	-8.38	34.45	46.00	-11.55
480.080	Peak	36.31	-4.58	31.73	46.00	-14.27
598.420	Peak	37.39	-2.94	34.44	46.00	-11.56
960.000	Peak	32.72	2.21	34.93	46.00	-11.07

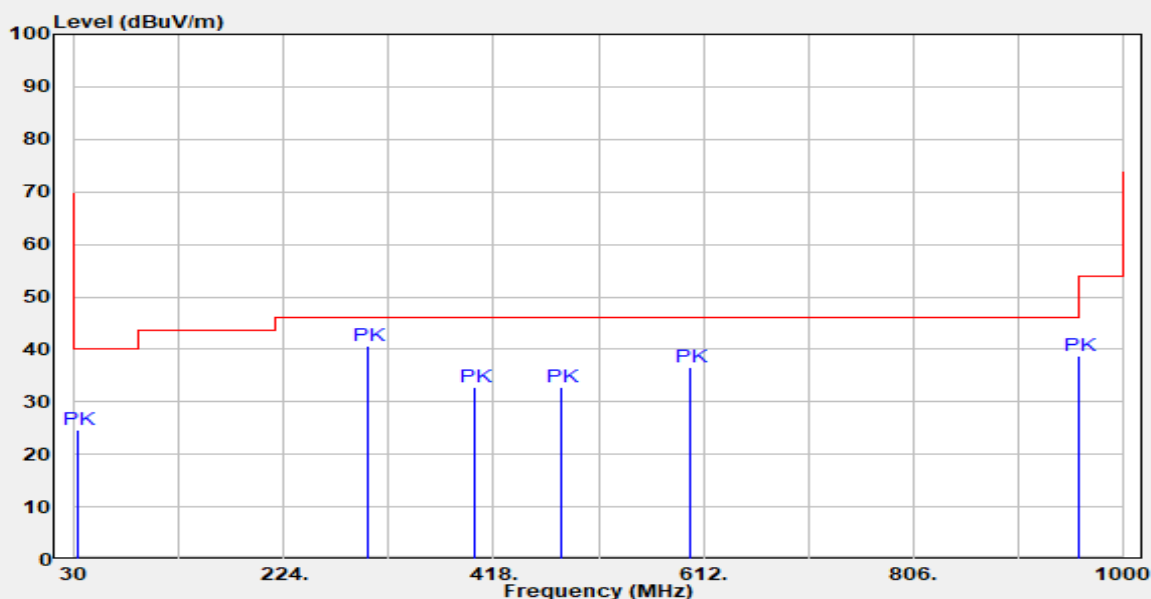
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :903 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



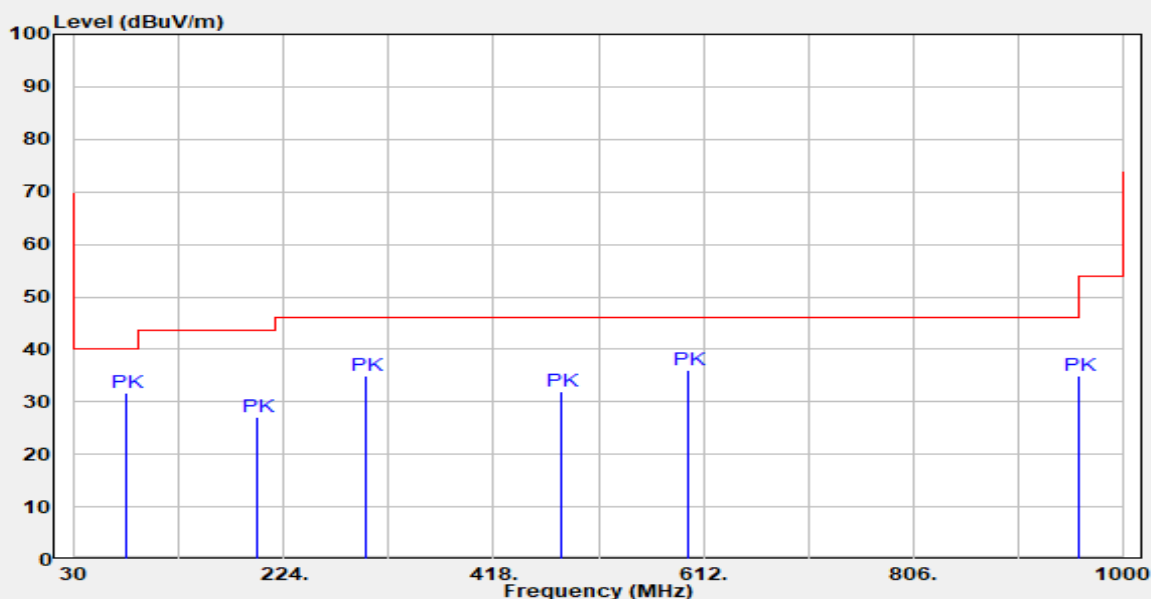
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.910	Peak	31.25	-6.49	24.75	40.00	-15.25
301.600	Peak	49.03	-8.33	40.70	46.00	-5.30
399.570	Peak	38.93	-6.07	32.87	46.00	-13.13
480.080	Peak	37.27	-4.58	32.69	46.00	-13.31
599.390	Peak	39.46	-2.94	36.52	46.00	-9.48
960.000	Peak	36.59	2.21	38.80	46.00	-7.20

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :915 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



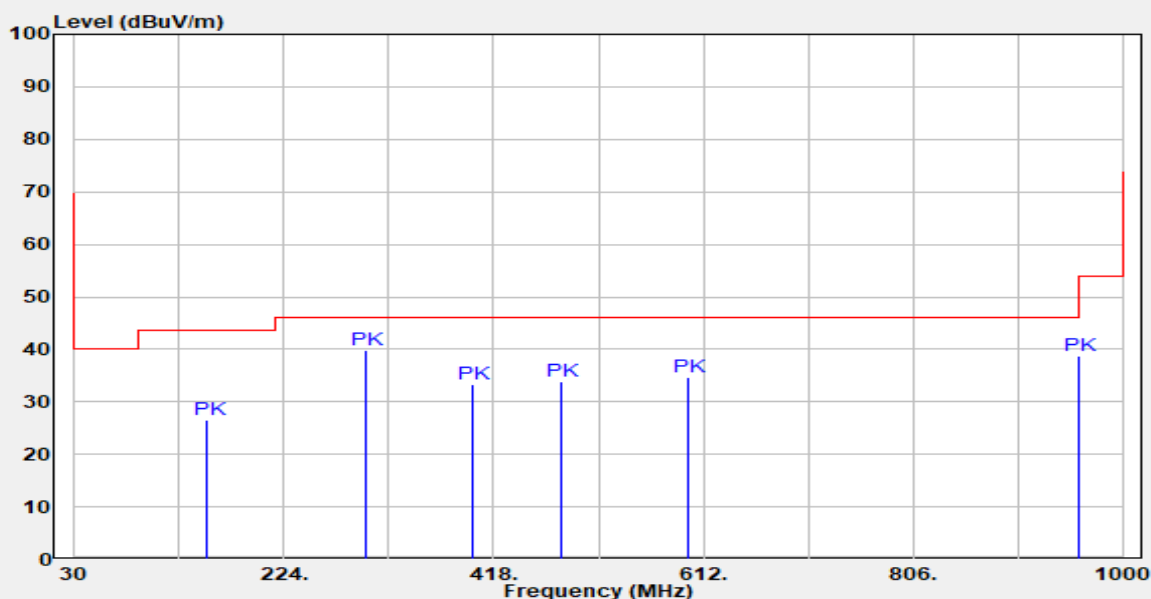
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
78.500	Peak	48.51	-16.77	31.74	40.00	-8.26
199.750	Peak	40.20	-13.12	27.09	43.50	-16.41
299.660	Peak	43.30	-8.34	34.96	46.00	-11.04
480.080	Peak	36.53	-4.58	31.95	46.00	-14.05
597.450	Peak	38.90	-2.95	35.95	46.00	-10.05
960.000	Peak	32.61	2.21	34.82	46.00	-11.18

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 2M
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



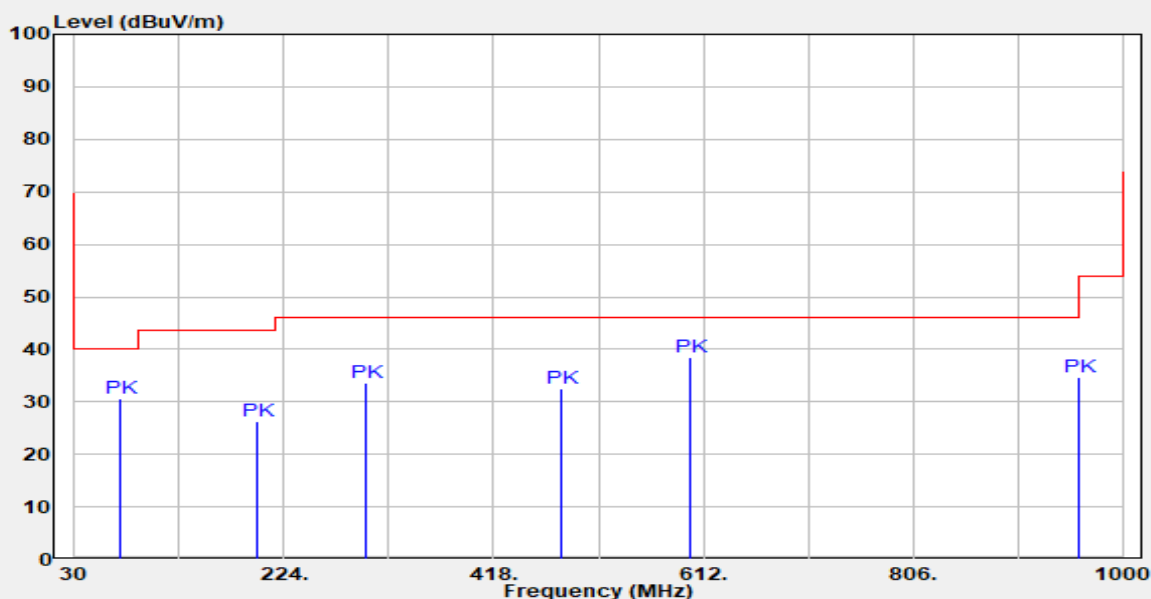
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
153.190	Peak	39.08	-12.65	26.43	43.50	-17.07
299.660	Peak	48.19	-8.34	39.85	46.00	-6.15
398.600	Peak	39.32	-6.10	33.22	46.00	-12.78
480.080	Peak	38.35	-4.58	33.77	46.00	-12.23
597.450	Peak	37.73	-2.95	34.78	46.00	-11.22
960.000	Peak	36.58	2.21	38.79	46.00	-7.21

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :927 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.710	Peak	47.81	-17.19	30.62	40.00	-9.38
199.750	Peak	39.36	-13.12	26.24	43.50	-17.26
299.660	Peak	41.99	-8.34	33.65	46.00	-12.35
480.080	Peak	37.14	-4.58	32.56	46.00	-13.44
600.360	Peak	41.30	-2.94	38.36	46.00	-7.64
960.000	Peak	32.59	2.21	34.80	46.00	-11.20

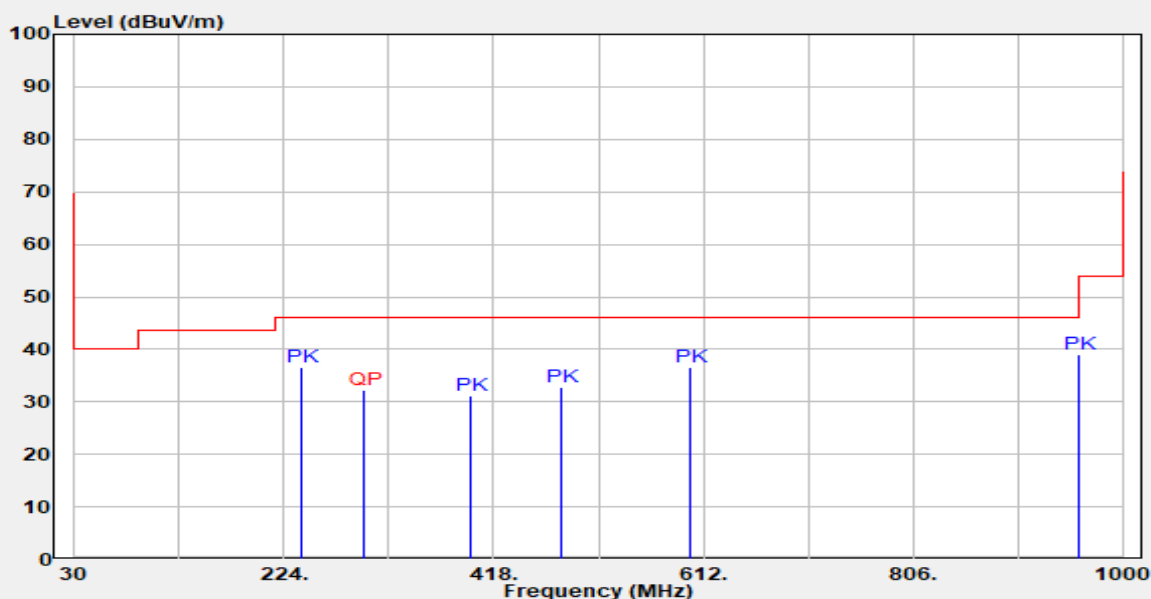
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 2M
 Test Frequency :927 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



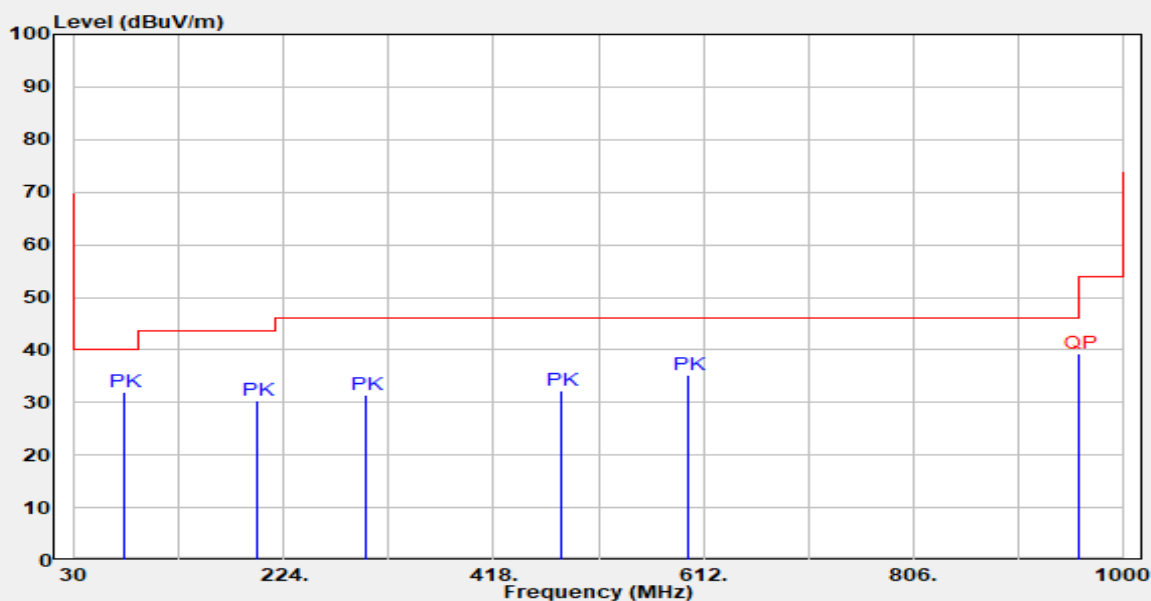
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
240.490	Peak	47.26	-10.64	36.62	46.00	-9.38
297.720	QP	40.62	-8.38	32.24	46.00	-13.76
395.690	Peak	37.50	-6.21	31.30	46.00	-14.70
480.080	Peak	37.44	-4.58	32.86	46.00	-13.14
599.390	Peak	39.57	-2.94	36.62	46.00	-9.38
960.000	Peak	36.82	2.21	39.03	46.00	-6.97

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 4M
 Test Frequency :906 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



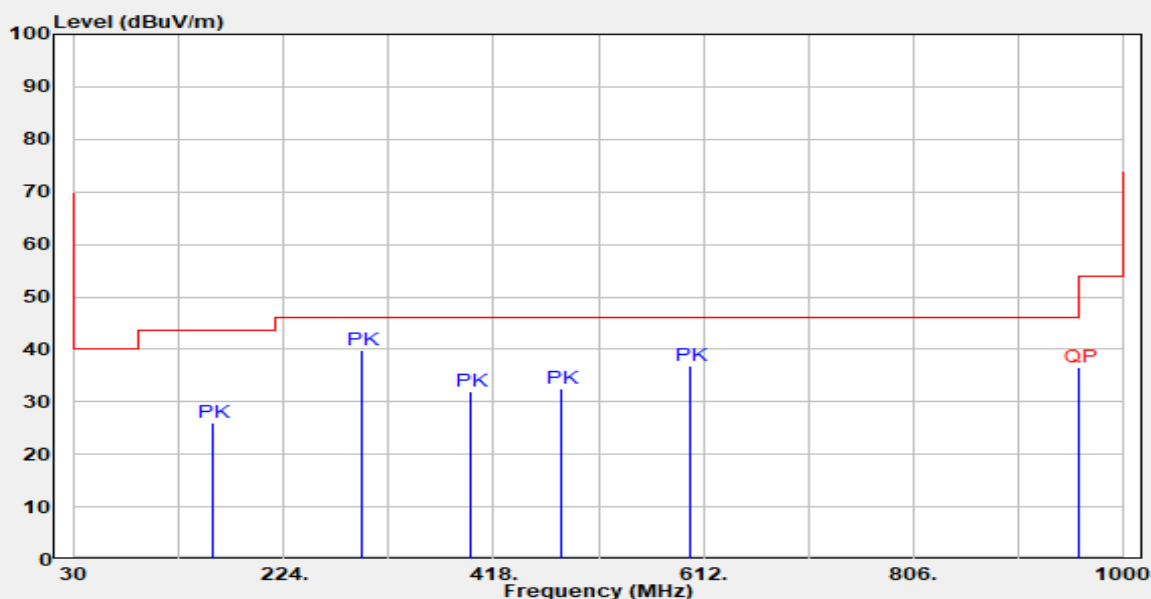
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
75.590	Peak	48.97	-16.98	31.99	40.00	-8.01
199.750	Peak	43.38	-13.12	30.26	43.50	-13.24
299.660	Peak	39.88	-8.34	31.54	46.00	-14.46
480.080	Peak	36.94	-4.58	32.36	46.00	-13.64
598.420	Peak	38.05	-2.94	35.10	46.00	-10.90
960.000	QP	37.05	2.21	39.26	46.00	-6.74

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 4M
 Test Frequency :906 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
157.070	Peak	38.83	-12.79	26.04	43.50	-17.46
295.780	Peak	48.22	-8.42	39.81	46.00	-6.19
396.660	Peak	38.06	-6.17	31.89	46.00	-14.11
480.080	Peak	37.18	-4.58	32.60	46.00	-13.40
599.390	Peak	39.79	-2.94	36.84	46.00	-9.16
960.000	QP	34.36	2.21	36.57	46.00	-9.43

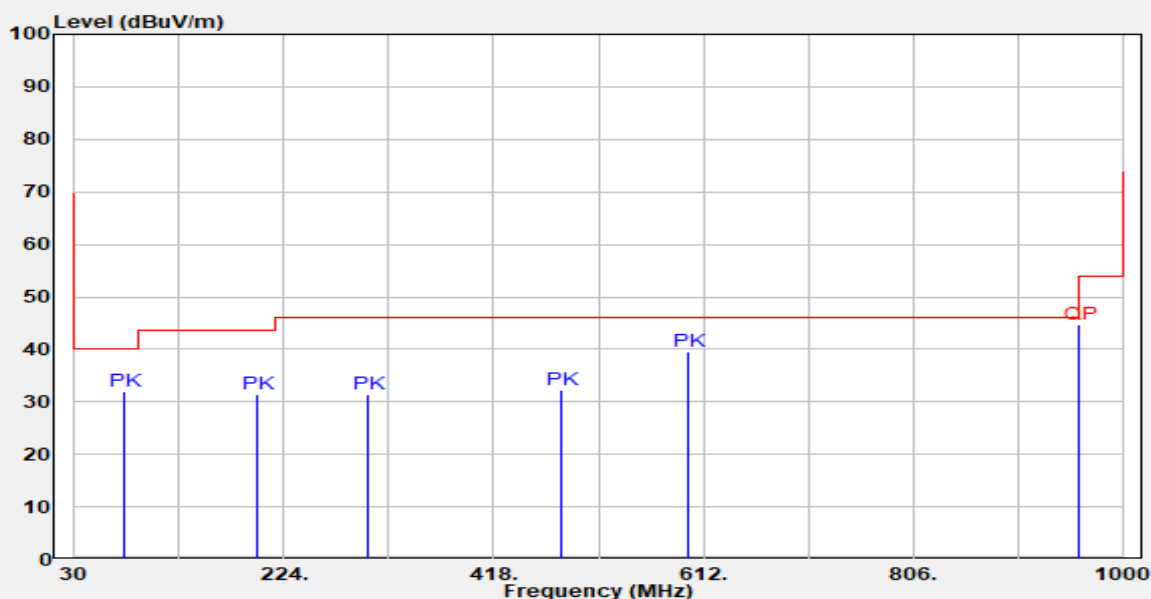
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 4M
Test Frequency :914 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
76.560	Peak	48.95	-16.88	32.06	40.00	-7.94
199.750	Peak	44.45	-13.12	31.33	43.50	-12.17
301.600	Peak	39.81	-8.33	31.48	46.00	-14.52
480.080	Peak	36.89	-4.58	32.31	46.00	-13.69
598.420	Peak	42.43	-2.94	39.49	46.00	-6.51
960.000	QP	42.53	2.21	44.74	46.00	-1.26

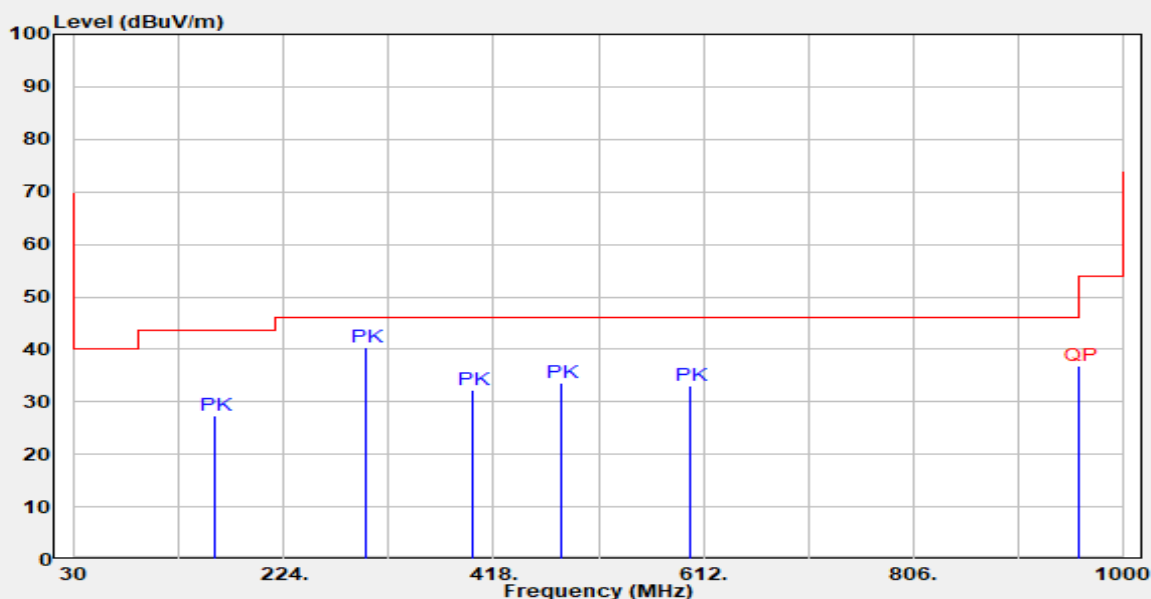
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 4M
 Test Frequency :914 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
159.980	Peak	40.20	-12.86	27.35	43.50	-16.15
299.660	Peak	48.81	-8.34	40.47	46.00	-5.53
397.630	Peak	38.42	-6.14	32.28	46.00	-13.72
480.080	Peak	38.10	-4.58	33.52	46.00	-12.48
600.360	Peak	36.12	-2.94	33.18	46.00	-12.82
960.000	QP	34.61	2.21	36.82	46.00	-9.18

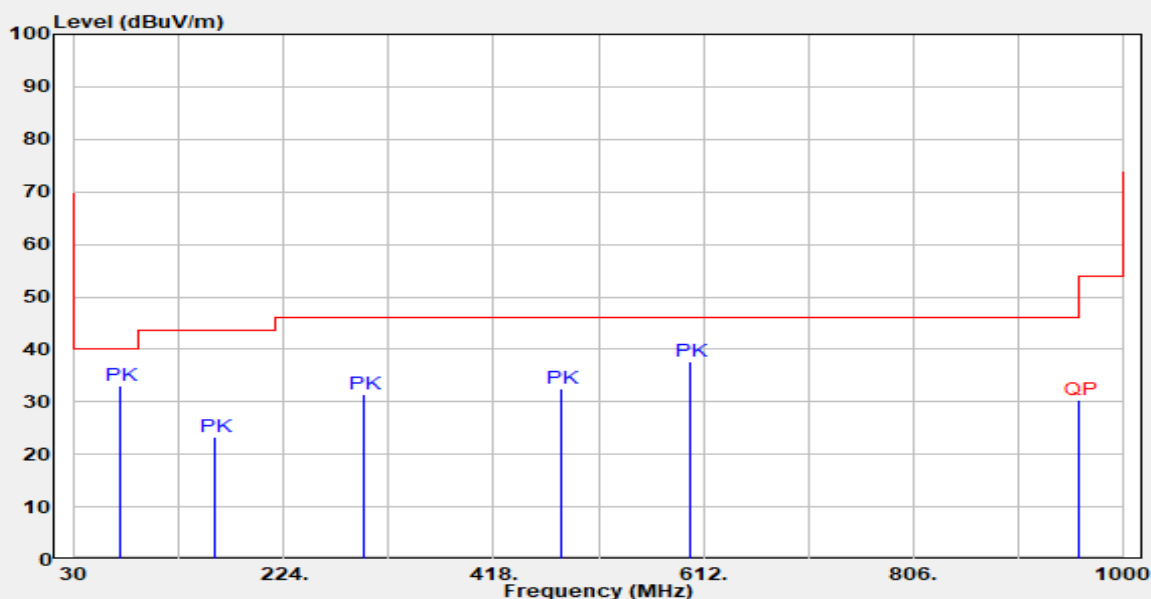
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 4M
Test Frequency :926 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
72.680	Peak	50.29	-17.19	33.10	40.00	-6.90
159.010	Peak	36.21	-12.77	23.44	43.50	-20.06
297.720	Peak	39.73	-8.38	31.36	46.00	-14.64
480.080	Peak	37.21	-4.58	32.63	46.00	-13.37
599.390	Peak	40.56	-2.94	37.62	46.00	-8.38
960.000	QP	28.25	2.21	30.46	46.00	-15.54

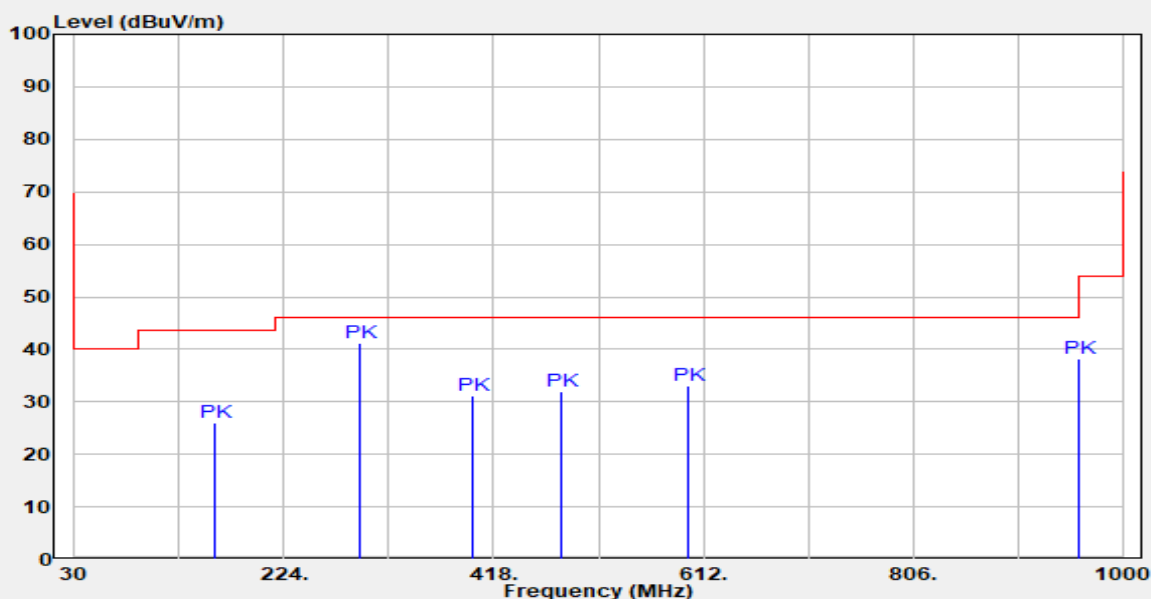
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 4M
Test Frequency :926 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
159.980	Peak	38.97	-12.86	26.11	43.50	-17.39
293.840	Peak	49.74	-8.48	41.26	46.00	-4.74
398.600	Peak	37.22	-6.10	31.12	46.00	-14.88
480.080	Peak	36.48	-4.58	31.90	46.00	-14.10
598.420	Peak	36.02	-2.94	33.07	46.00	-12.93
960.000	Peak	36.04	2.21	38.25	46.00	-7.75

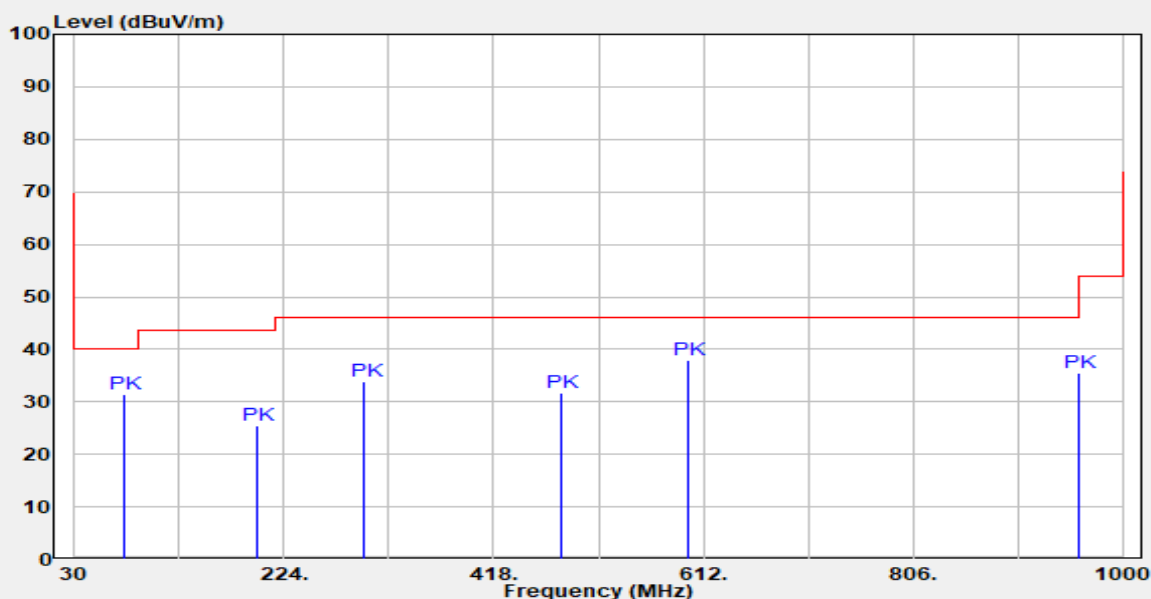
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :908 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
75.590	Peak	48.38	-16.98	31.41	40.00	-8.59
198.780	Peak	38.78	-13.20	25.57	43.50	-17.93
298.690	Peak	42.35	-8.36	33.99	46.00	-12.01
480.080	Peak	36.29	-4.58	31.71	46.00	-14.29
598.420	Peak	40.79	-2.94	37.84	46.00	-8.16
960.000	Peak	33.32	2.21	35.53	46.00	-10.47

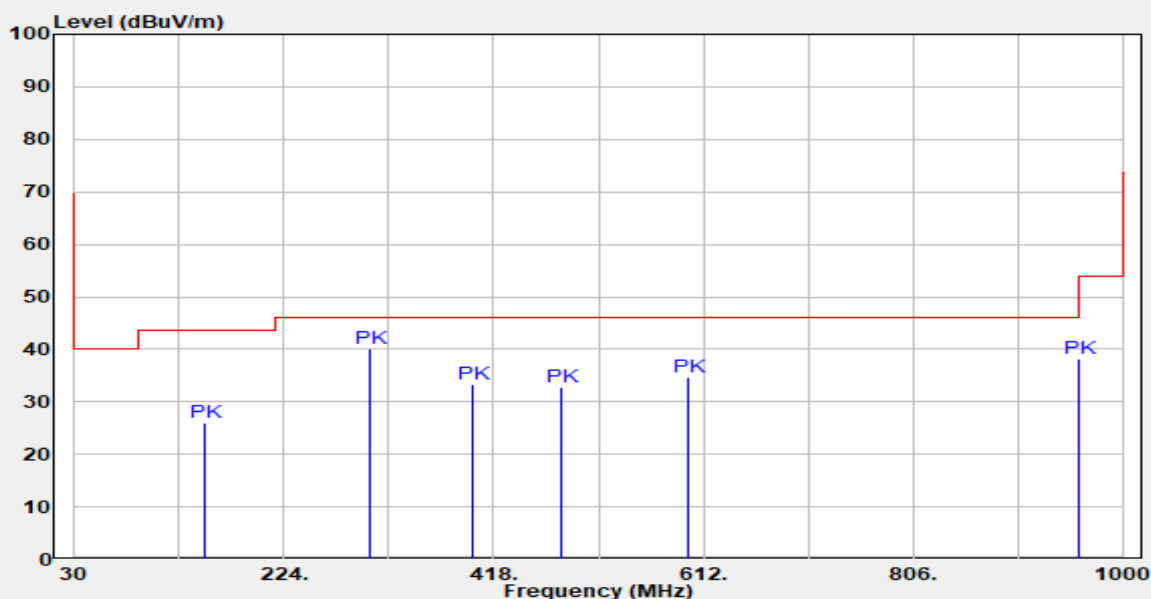
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :908 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
151.250	Peak	38.57	-12.46	26.11	43.50	-17.39
302.570	Peak	48.42	-8.32	40.10	46.00	-5.90
398.600	Peak	39.53	-6.10	33.43	46.00	-12.57
480.080	Peak	37.43	-4.58	32.85	46.00	-13.15
598.420	Peak	37.66	-2.94	34.72	46.00	-11.28
960.000	Peak	36.08	2.21	38.29	46.00	-7.71

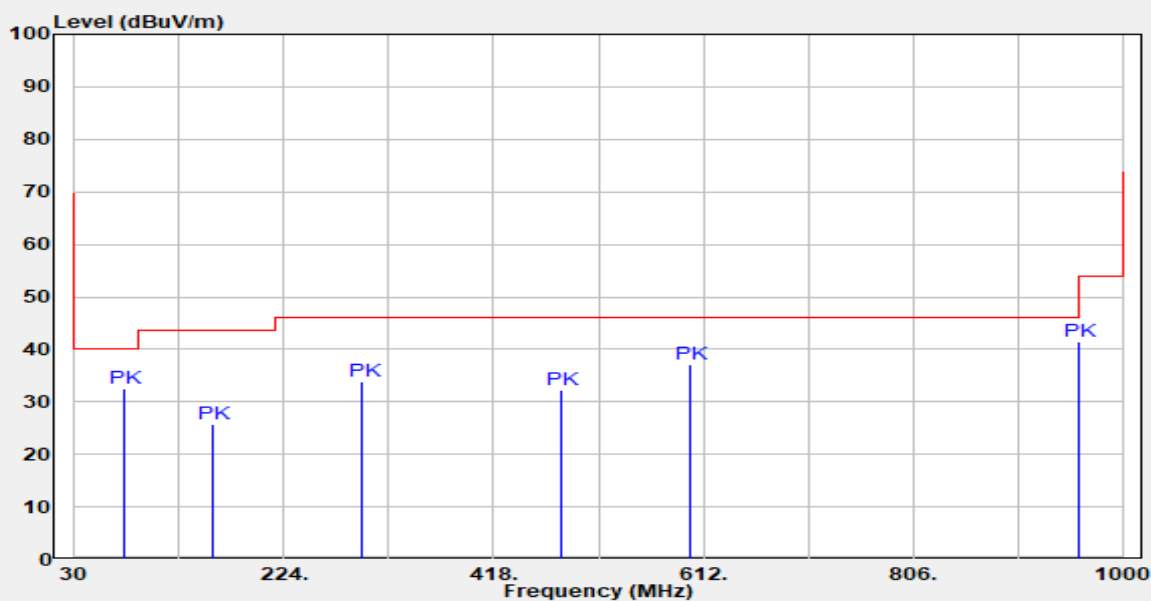
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :916 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



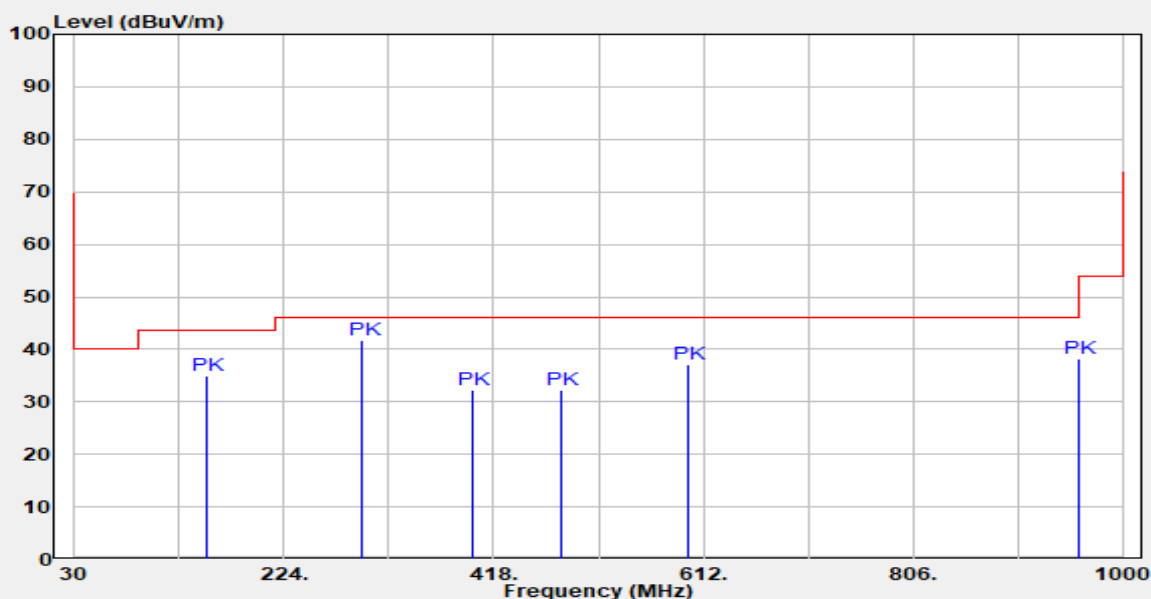
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
76.560	Peak	49.42	-16.88	32.53	40.00	-7.47
157.070	Peak	38.53	-12.79	25.74	43.50	-17.76
296.750	Peak	42.18	-8.40	33.78	46.00	-12.22
480.080	Peak	36.83	-4.58	32.25	46.00	-13.75
600.360	Peak	40.16	-2.94	37.22	46.00	-8.78
960.000	Peak	39.15	2.21	41.36	46.00	-4.64

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :916 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
152.220	Peak	47.57	-12.49	35.08	43.50	-8.42
296.750	Peak	50.07	-8.40	41.67	46.00	-4.33
398.600	Peak	38.42	-6.10	32.32	46.00	-13.68
480.080	Peak	36.96	-4.58	32.38	46.00	-13.62
598.420	Peak	40.13	-2.94	37.18	46.00	-8.82
960.000	Peak	35.93	2.21	38.14	46.00	-7.86

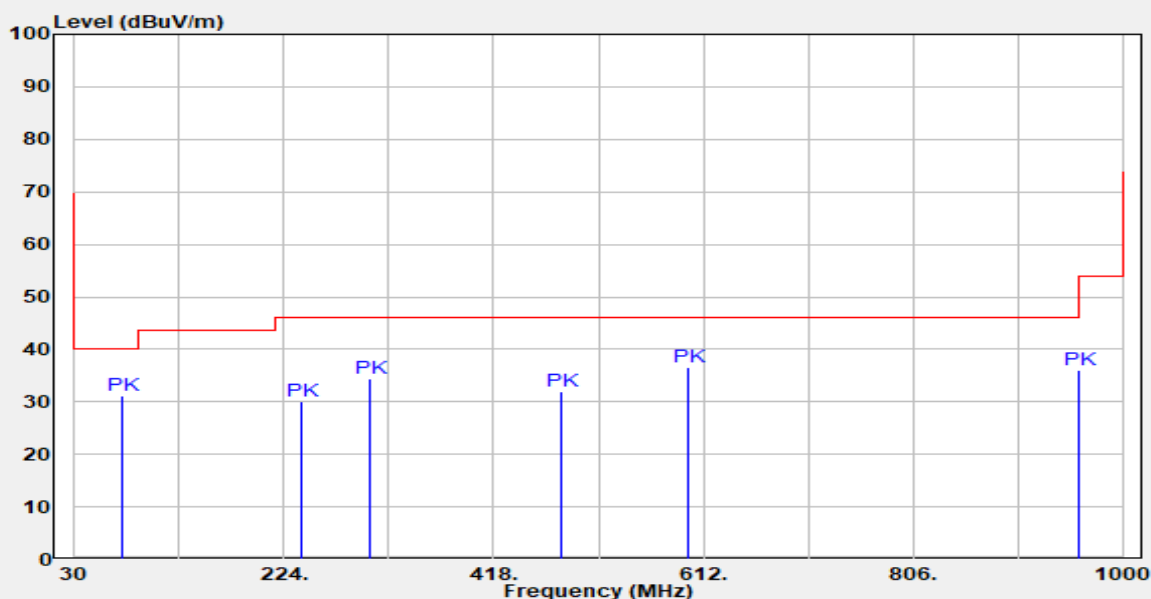
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 8M
Test Frequency :924 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2025-06-26
Temp./Humi. :22.3°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.620	Peak	48.25	-17.18	31.07	40.00	-8.93
239.520	Peak	40.92	-10.75	30.17	46.00	-15.83
302.570	Peak	42.73	-8.32	34.41	46.00	-11.59
480.080	Peak	36.57	-4.58	31.99	46.00	-14.01
598.420	Peak	39.39	-2.94	36.45	46.00	-9.55
960.000	Peak	33.91	2.21	36.12	46.00	-9.88

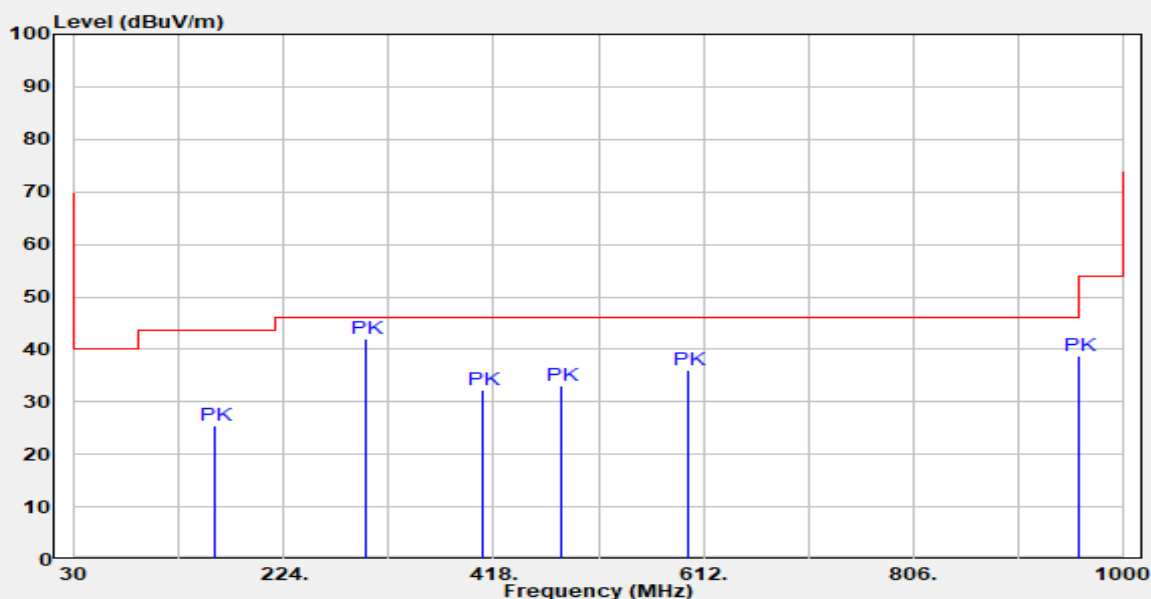
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :924 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2025-06-26
 Temp./Humi. :22.3°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
159.980	Peak	38.43	-12.86	25.58	43.50	-17.92
299.660	Peak	50.30	-8.34	41.96	46.00	-4.04
407.330	Peak	37.90	-5.68	32.22	46.00	-13.78
480.080	Peak	37.66	-4.58	33.08	46.00	-12.92
598.420	Peak	39.05	-2.94	36.10	46.00	-9.90
960.000	Peak	36.52	2.21	38.73	46.00	-7.27

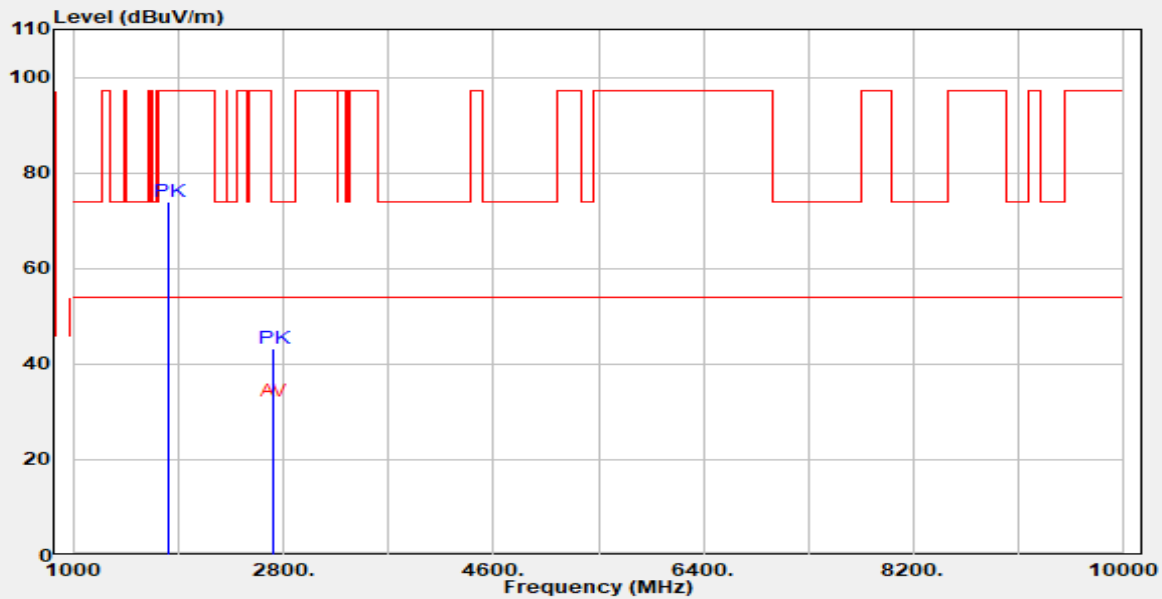
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 1M
Test Frequency :902.5 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-30
Temp./Humi. :22.1°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



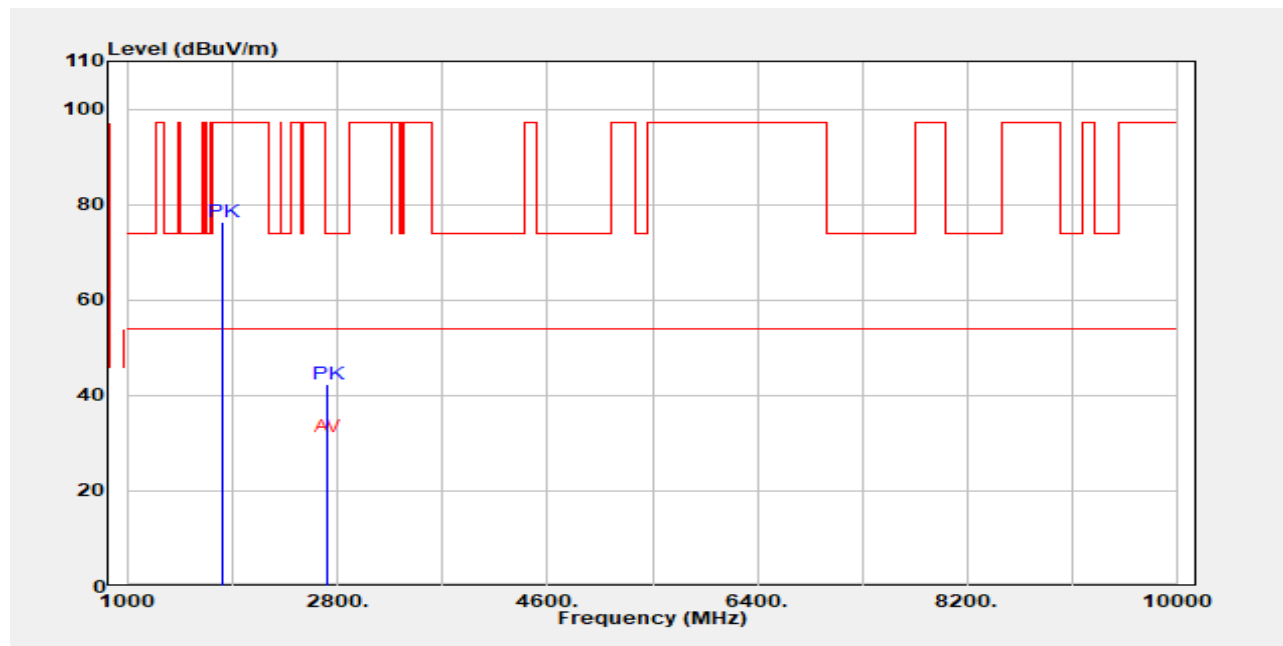
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1805.000	Peak	78.61	-4.63	73.98	97.27	-23.29
2707.500	Average	33.26	-1.05	32.21	54.00	-21.79
2707.500	Peak	44.23	-1.05	43.18	74.00	-30.82

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 1M
Test Frequency :902.5 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-30
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



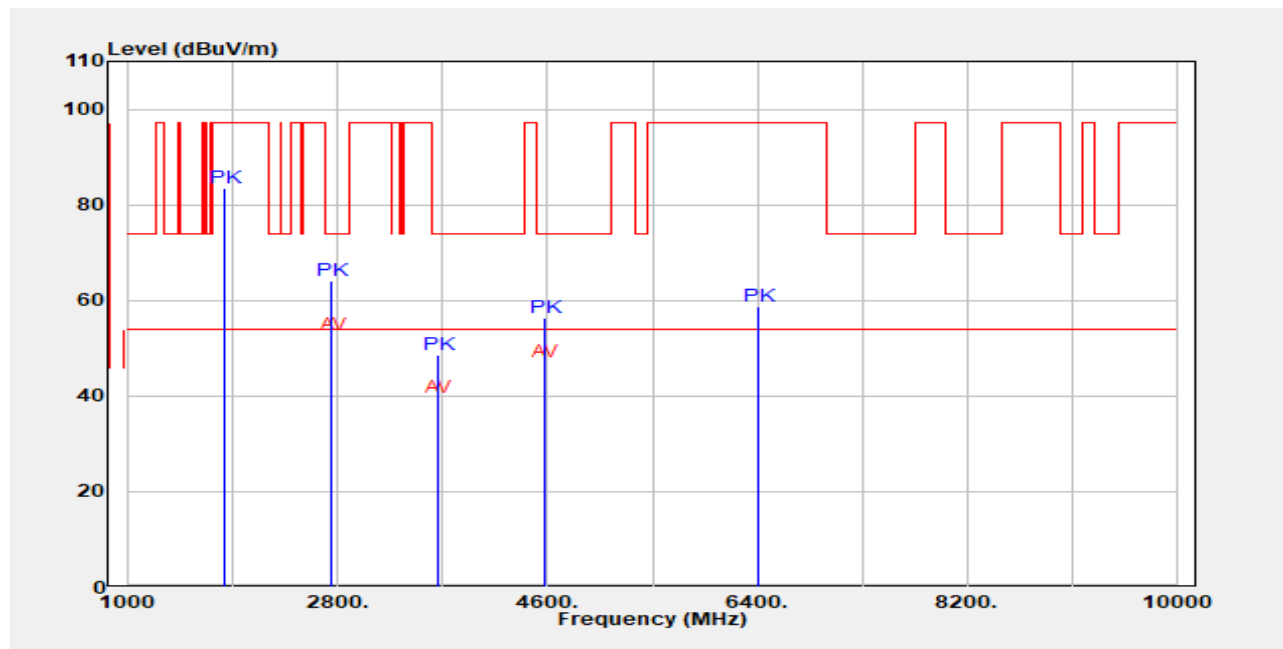
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1805.000	Peak	80.82	-4.63	76.19	97.27	-21.08
2707.500	Average	32.41	-1.05	31.36	54.00	-22.64
2707.500	Peak	43.31	-1.05	42.26	74.00	-31.74

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 1M
 Test Frequency :914.5 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-27
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1829.000	Peak	87.69	-4.28	83.41	97.27	-13.86
2743.500	Average	53.81	-0.99	52.82	54.00	-1.18
2743.500	Peak	65.07	-0.99	64.08	74.00	-9.92
3658.000	Average	38.43	1.36	39.79	54.00	-14.21
3658.000	Peak	47.30	1.36	48.66	74.00	-25.34
4572.500	Average	44.33	2.74	47.07	54.00	-6.93
4572.500	Peak	53.54	2.74	56.28	74.00	-17.72
6401.500	Peak	51.48	7.22	58.70	97.27	-38.57

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台灣檢驗科技股份有限公司

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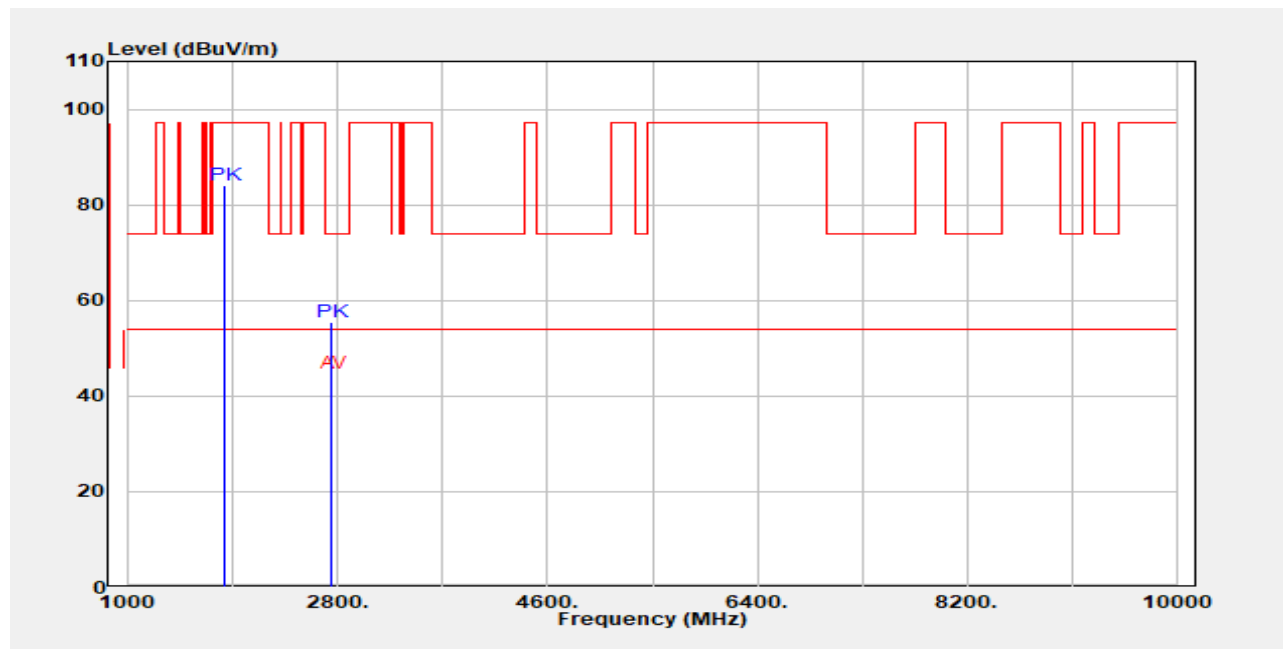
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 1M
Test Frequency :914.5 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



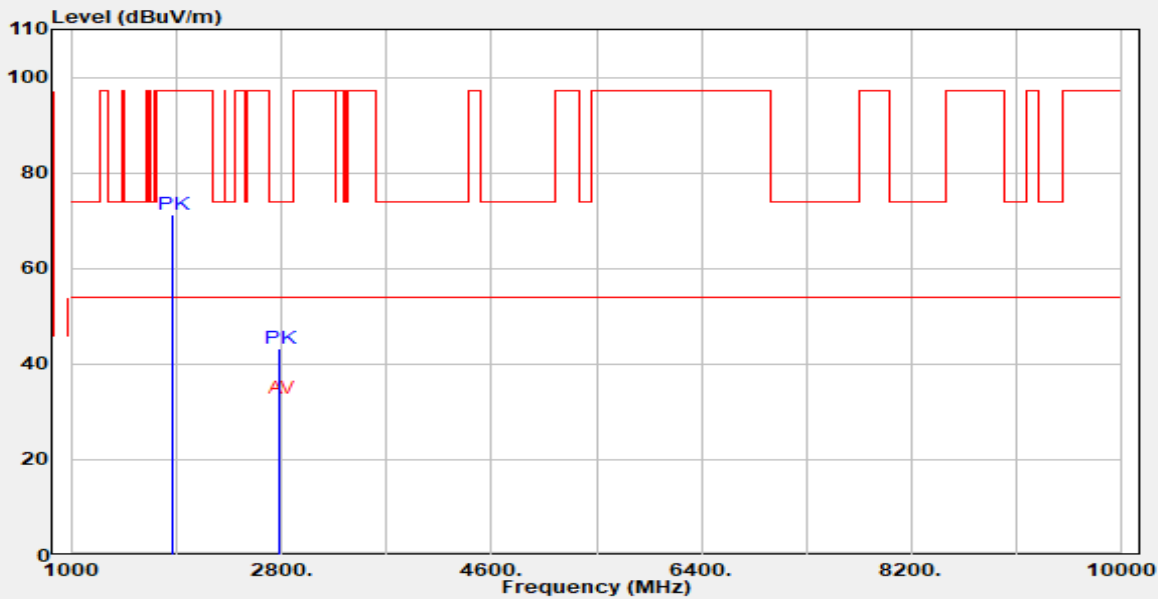
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1829.000	Peak	88.28	-4.28	84.00	97.27	-13.27
2743.500	Average	45.74	-0.99	44.75	54.00	-9.25
2743.500	Peak	56.35	-0.99	55.36	74.00	-18.64

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 1M
 Test Frequency :927.5 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-30
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1855.000	Peak	75.07	-3.95	71.12	97.27	-26.15
2782.500	Average	33.46	-0.59	32.87	54.00	-21.13
2782.500	Peak	43.71	-0.59	43.12	74.00	-30.88

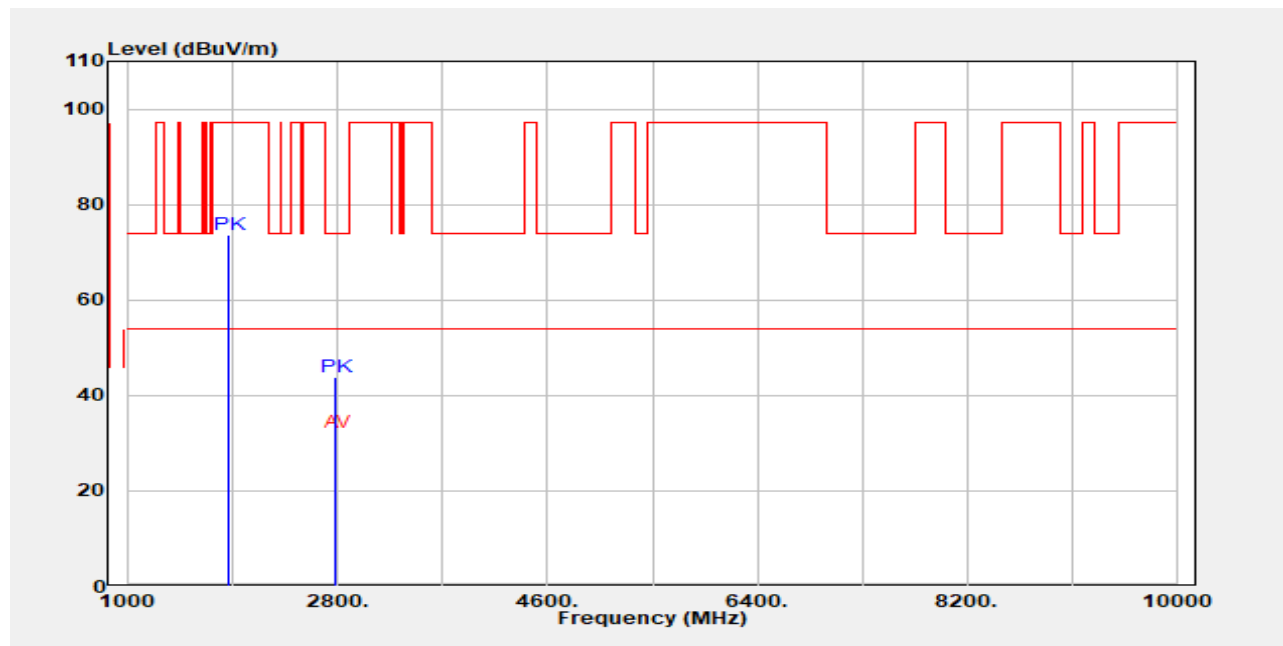
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 1M
 Test Frequency :927.5 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-30
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



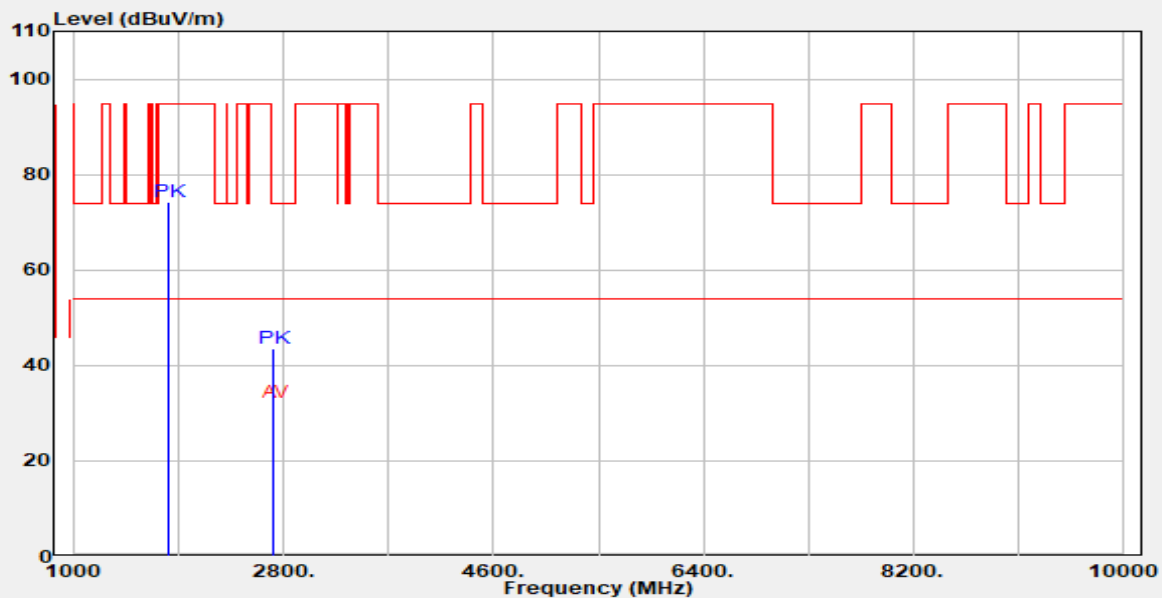
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1855.000	Peak	77.44	-3.95	73.49	97.27	-23.78
2782.500	Average	32.71	-0.59	32.12	54.00	-21.88
2782.500	Peak	44.42	-0.59	43.83	74.00	-30.17

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :903 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-30
Temp./Humi. :22.1°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



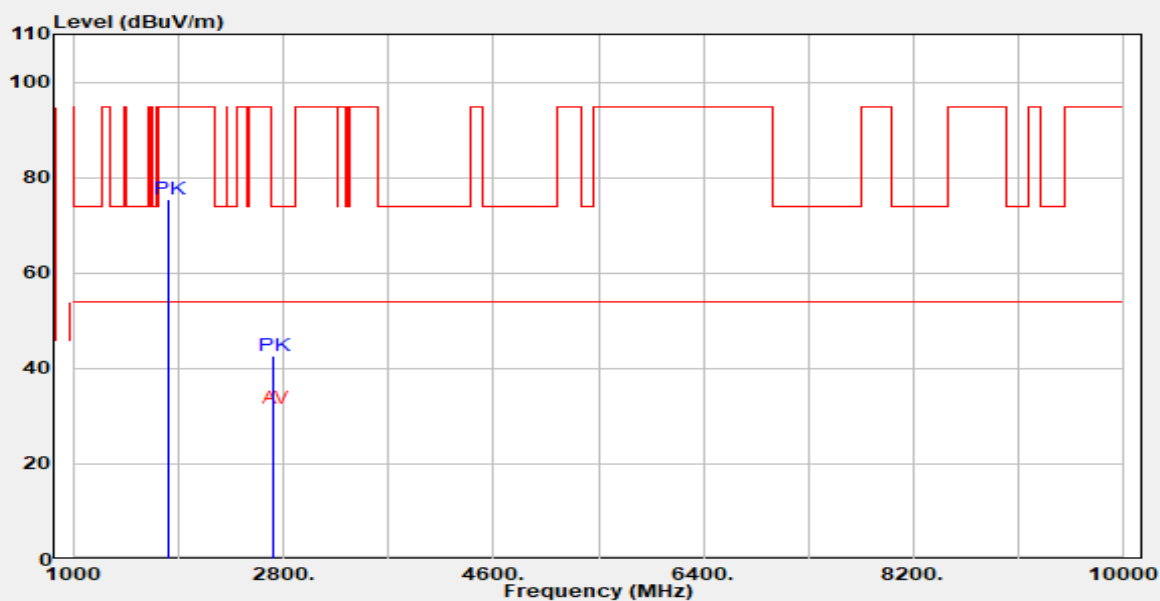
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1806.000	Peak	78.86	-4.62	74.24	94.69	-20.45
2709.000	Average	33.29	-1.03	32.26	54.00	-21.74
2709.000	Peak	44.68	-1.03	43.65	74.00	-30.35

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :903 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-30
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



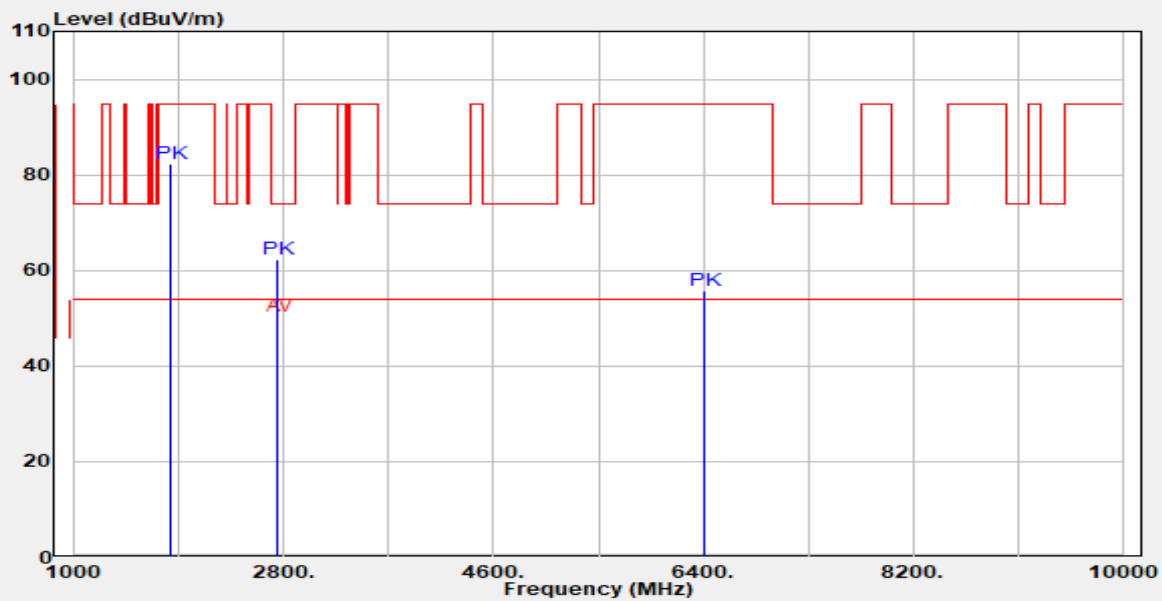
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1806.000	Peak	79.93	-4.62	75.31	94.69	-19.38
2709.000	Average	32.68	-1.03	31.65	54.00	-22.35
2709.000	Peak	43.53	-1.03	42.50	74.00	-31.50

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 2M
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-08-06
 Temp./Humi. :24.4°C/77%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



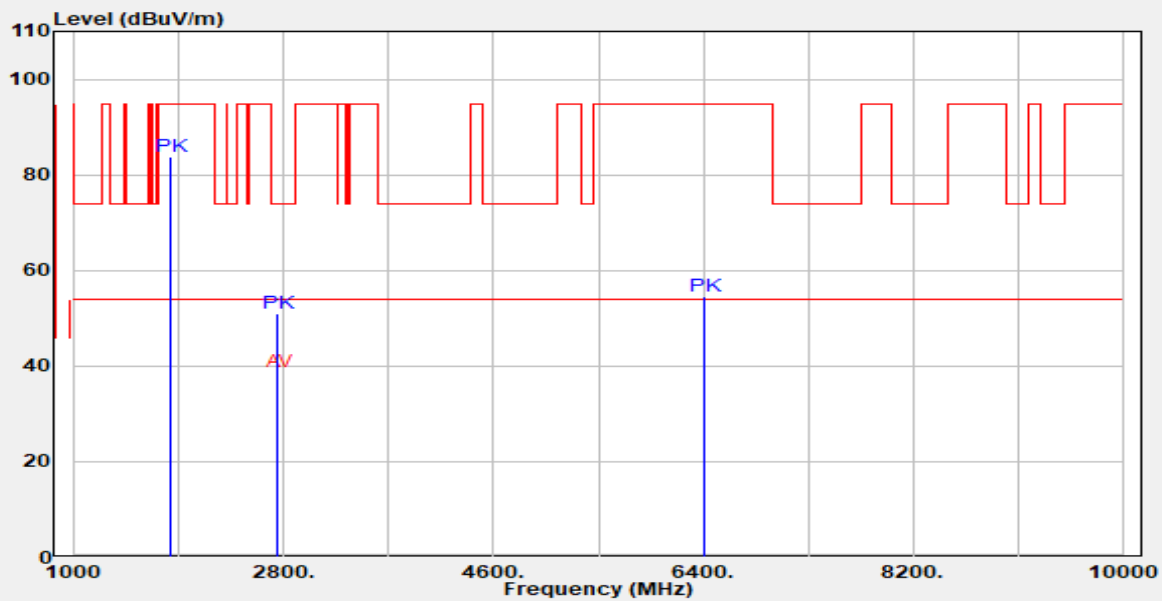
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1830.000	Peak	86.52	-4.30	82.22	94.69	-12.47
2745.000	Average	51.81	-1.41	50.40	54.00	-3.60
2745.000	Peak	63.60	-1.41	62.19	74.00	-11.81
6405.000	Peak	48.66	6.94	55.60	94.69	-39.09

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 2M
 Test Frequency :915 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-08-06
 Temp./Humi. :24.4°C/77%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



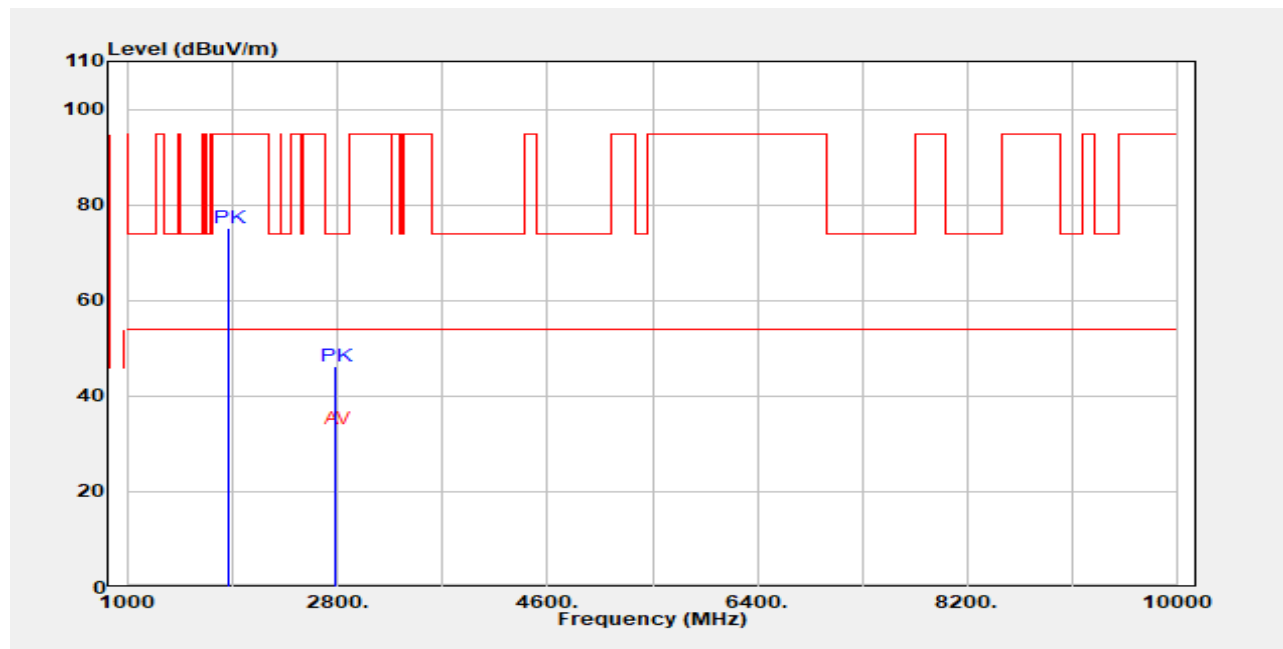
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1830.000	Peak	87.98	-4.30	83.68	94.69	-11.01
2745.000	Average	40.08	-1.41	38.67	54.00	-15.33
2745.000	Peak	52.39	-1.41	50.98	74.00	-23.02
6405.000	Peak	47.69	6.94	54.63	94.69	-40.06

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :927 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



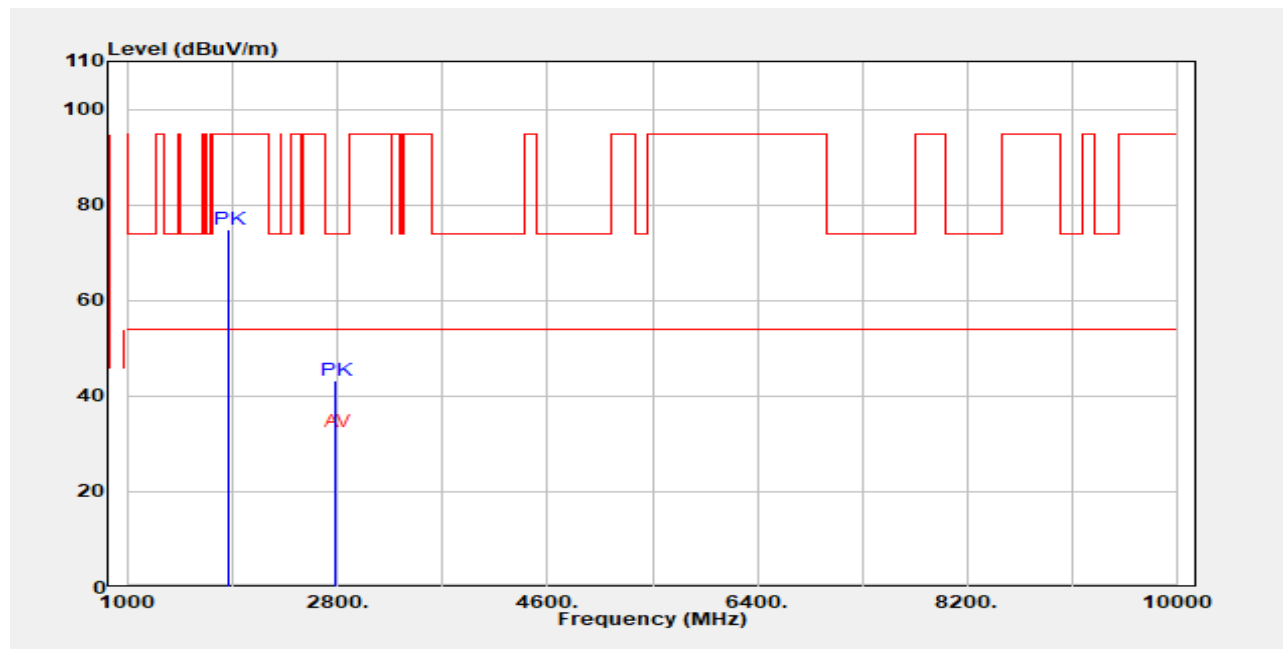
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1854.000	Peak	79.22	-3.97	75.25	94.69	-19.44
2781.000	Average	33.57	-0.58	32.99	54.00	-21.01
2781.000	Peak	46.92	-0.58	46.34	74.00	-27.66

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 2M
Test Frequency :927 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1854.000	Peak	78.85	-3.97	74.88	94.69	-19.81
2781.000	Average	33.16	-0.58	32.58	54.00	-21.42
2781.000	Peak	43.82	-0.58	43.24	74.00	-30.76

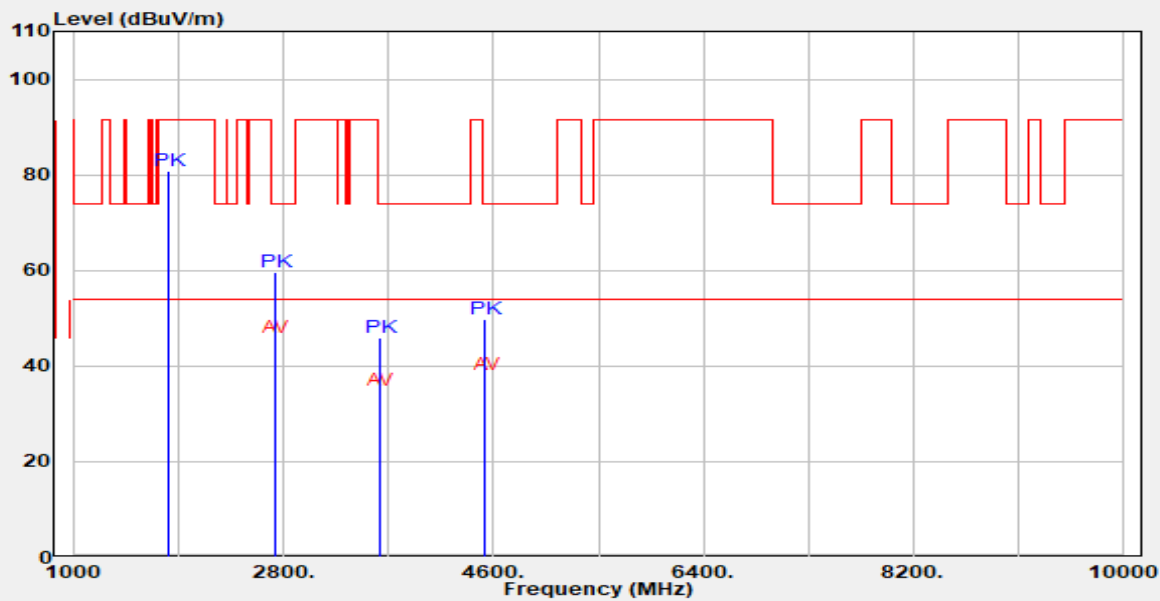
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 4M
 Test Frequency :906 MHZ
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-27
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1812.000	Peak	85.29	-4.56	80.73	91.62	-10.89
2718.000	Average	46.97	-0.99	45.98	54.00	-8.02
2718.000	Peak	60.74	-0.99	59.75	74.00	-14.25
3624.000	Average	33.87	1.11	34.98	54.00	-19.02
3624.000	Peak	44.66	1.11	45.77	74.00	-28.23
4530.000	Average	35.52	2.59	38.11	54.00	-15.89
4530.000	Peak	47.19	2.59	49.78	74.00	-24.22

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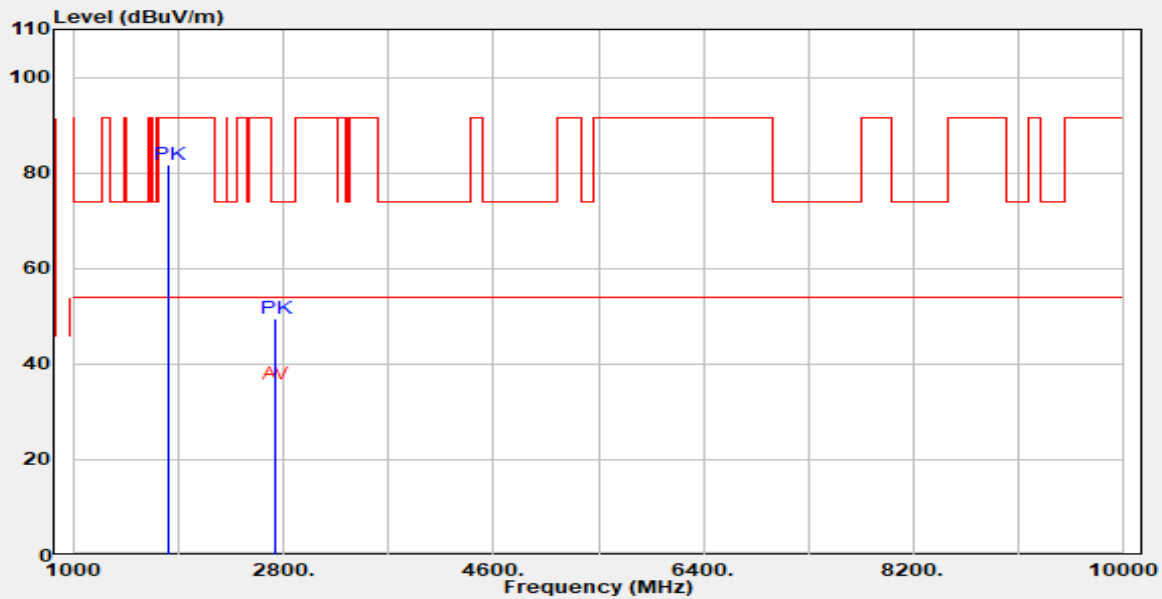
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 4M
 Test Frequency :906 MHZ
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-27
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1812.000	Peak	86.37	-4.56	81.81	91.62	-9.81
2718.000	Average	36.65	-0.99	35.66	54.00	-18.34
2718.000	Peak	50.44	-0.99	49.45	74.00	-24.55

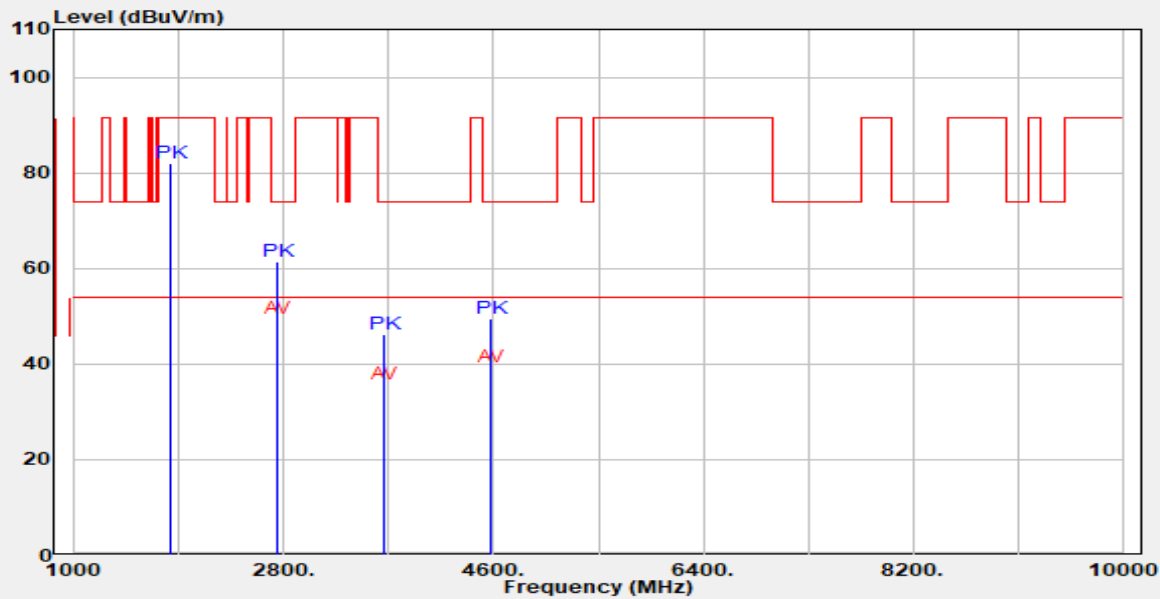
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 4M
 Test Frequency :914 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-27
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1828.000	Peak	86.22	-4.30	81.92	91.62	-9.70
2742.000	Average	50.63	-1.01	49.62	54.00	-4.38
2742.000	Peak	62.29	-1.01	61.28	74.00	-12.72
3656.000	Average	34.45	1.35	35.80	54.00	-18.20
3656.000	Peak	44.94	1.35	46.29	74.00	-27.71
4570.000	Average	36.62	2.74	39.36	54.00	-14.64
4570.000	Peak	46.60	2.74	49.34	74.00	-24.66

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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

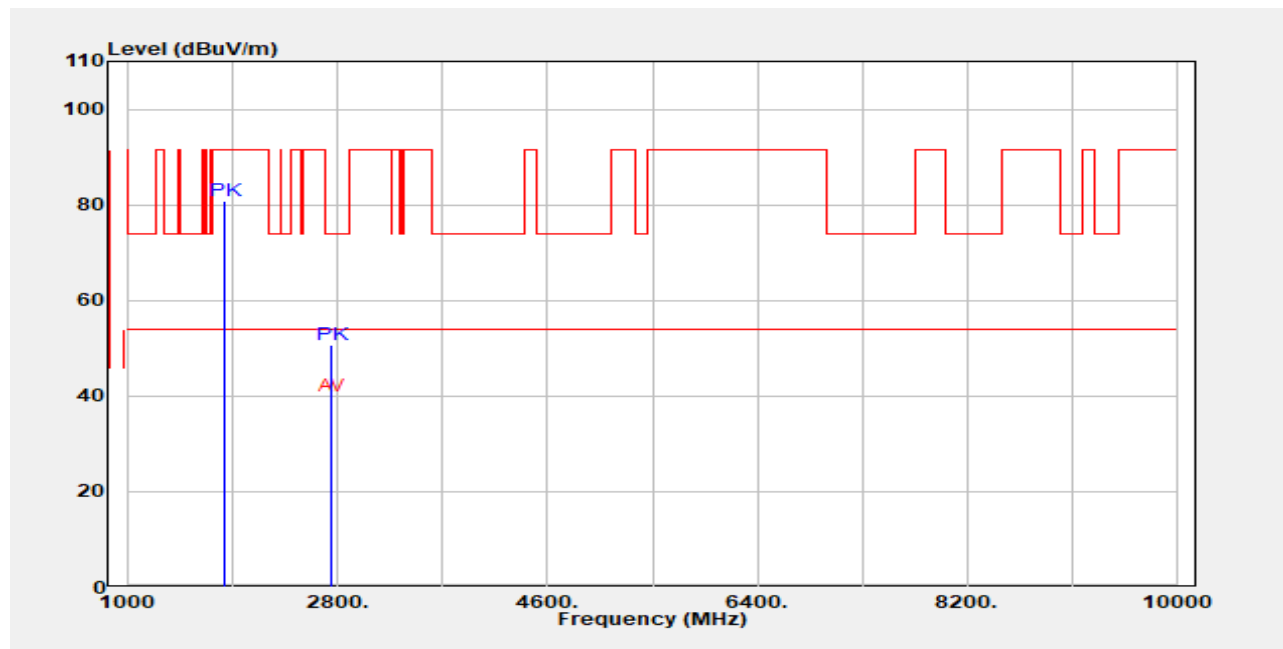
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2505001770ER
Operation Mode :802.11ah 4M
Test Frequency :914 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



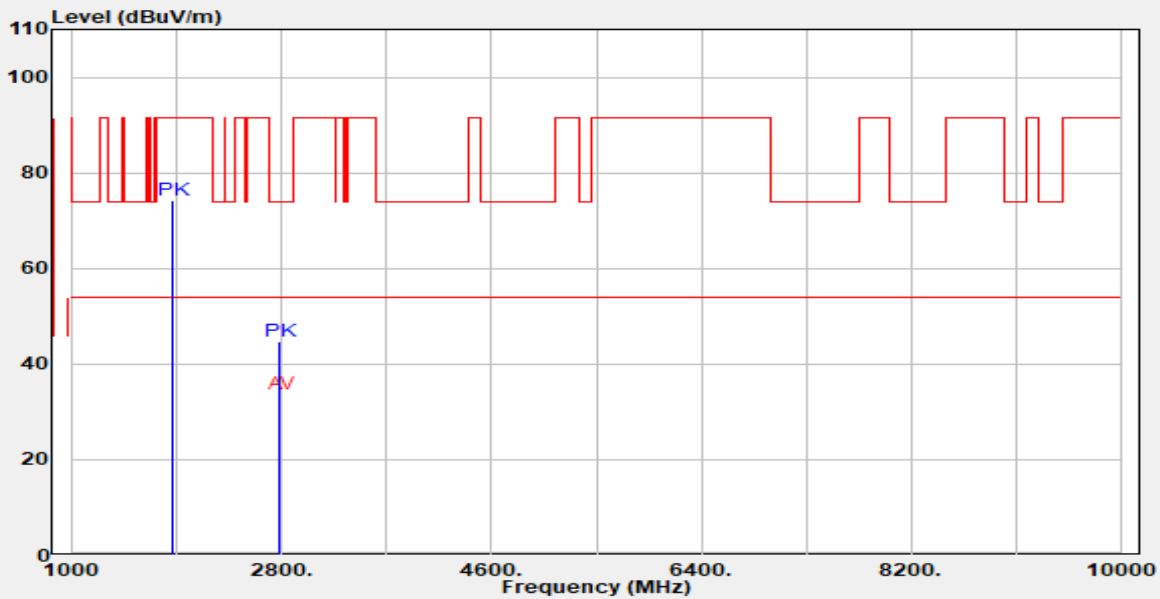
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1828.000	Peak	85.18	-4.30	80.88	91.62	-10.74
2742.000	Average	41.06	-1.01	40.05	54.00	-13.95
2742.000	Peak	51.73	-1.01	50.72	74.00	-23.28

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 4M
 Test Frequency :926 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-27
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



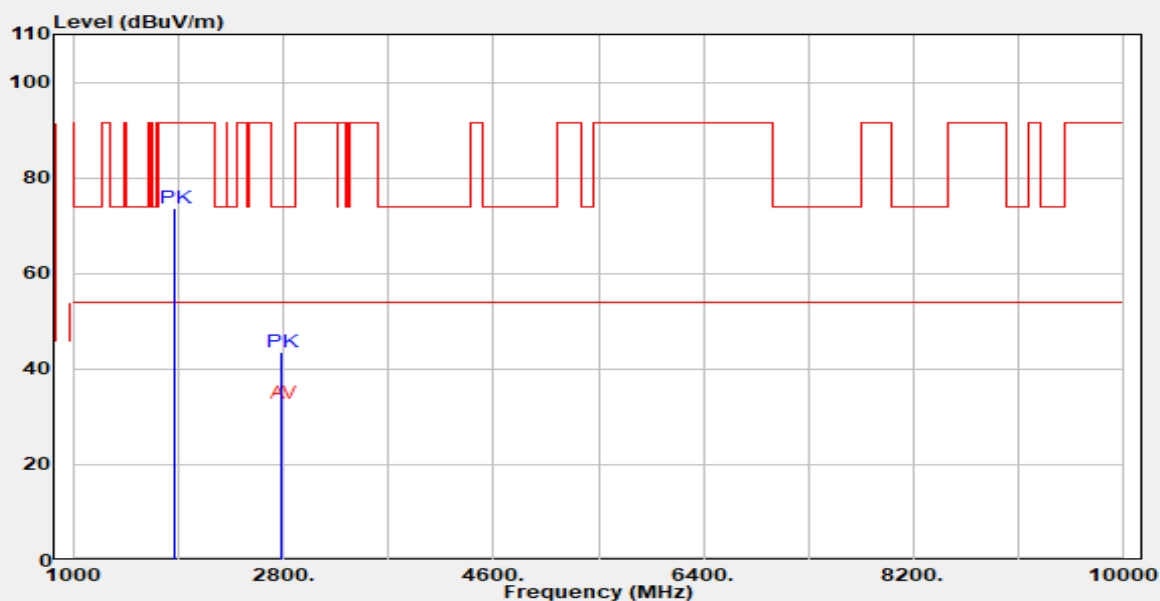
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1852.000	Peak	78.18	-4.00	74.18	91.62	-17.44
2778.000	Average	34.16	-0.61	33.55	54.00	-20.45
2778.000	Peak	45.18	-0.61	44.57	74.00	-29.43

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 4M
Test Frequency :926 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



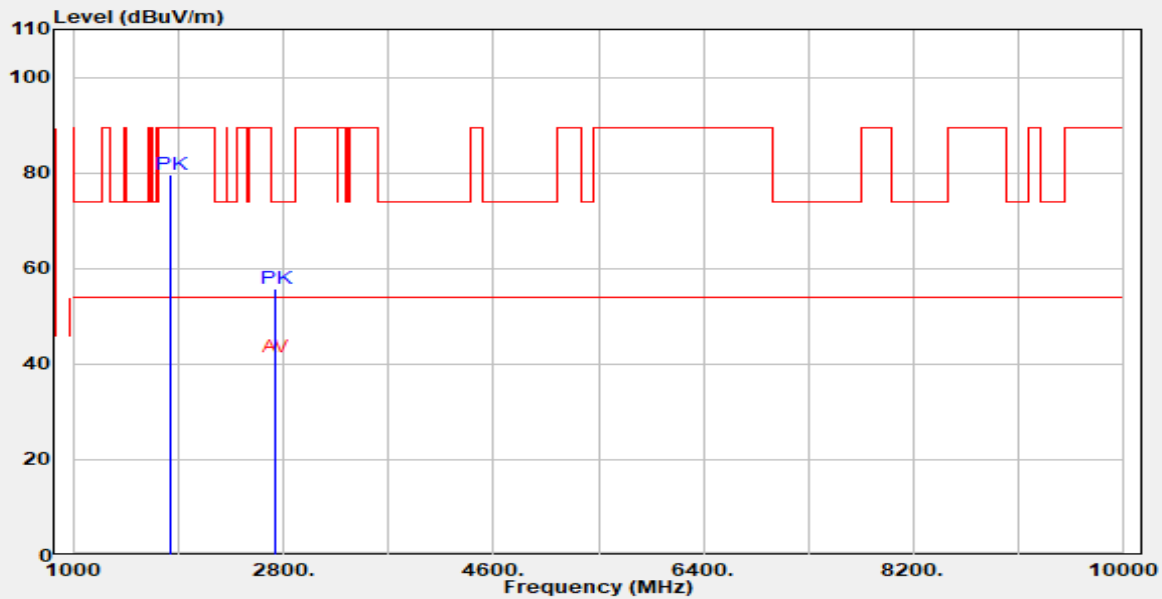
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1852.000	Peak	77.73	-4.00	73.73	91.62	-17.89
2778.000	Average	33.27	-0.61	32.66	54.00	-21.34
2778.000	Peak	44.18	-0.61	43.57	74.00	-30.43

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 8M
Test Frequency :908 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



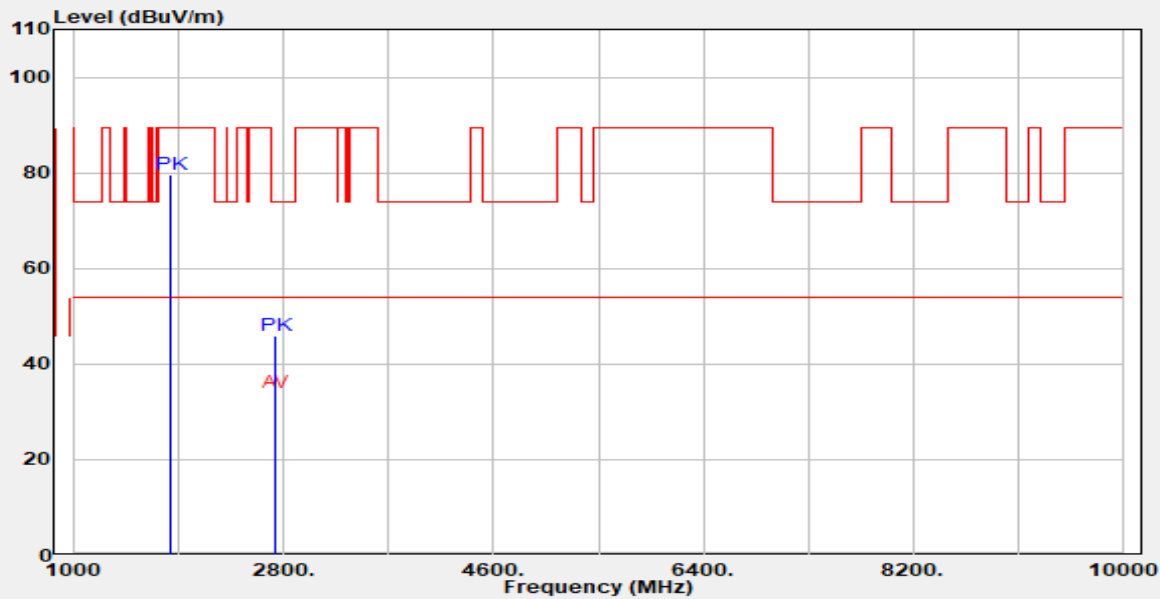
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1816.000	Peak	83.96	-4.49	79.47	89.53	-10.06
2724.000	Average	42.43	-0.98	41.45	54.00	-12.55
2724.000	Peak	56.84	-0.98	55.86	74.00	-18.14

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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :908 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-06-27
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1816.000	Peak	83.94	-4.49	79.45	89.53	-10.08
2724.000	Average	35.07	-0.98	34.09	54.00	-19.91
2724.000	Peak	46.74	-0.98	45.76	74.00	-28.24

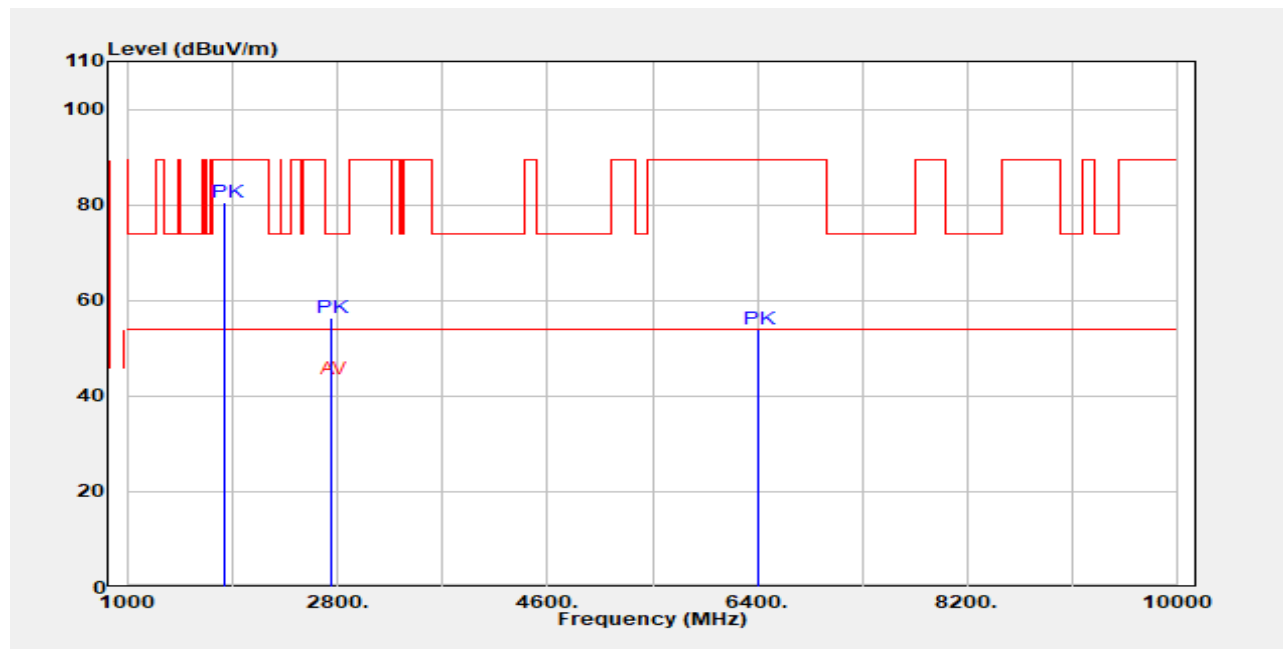
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Report Number :TERF2505001770ER
 Operation Mode :802.11ah 8M
 Test Frequency :916 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-07-01
 Temp./Humi. :22.1°C/67%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1832.000	Peak	84.63	-4.23	80.40	89.53	-9.13
2748.000	Average	44.42	-0.94	43.48	54.00	-10.52
2748.000	Peak	57.33	-0.94	56.39	74.00	-17.61
6412.000	Peak	46.78	7.30	54.08	89.53	-35.45

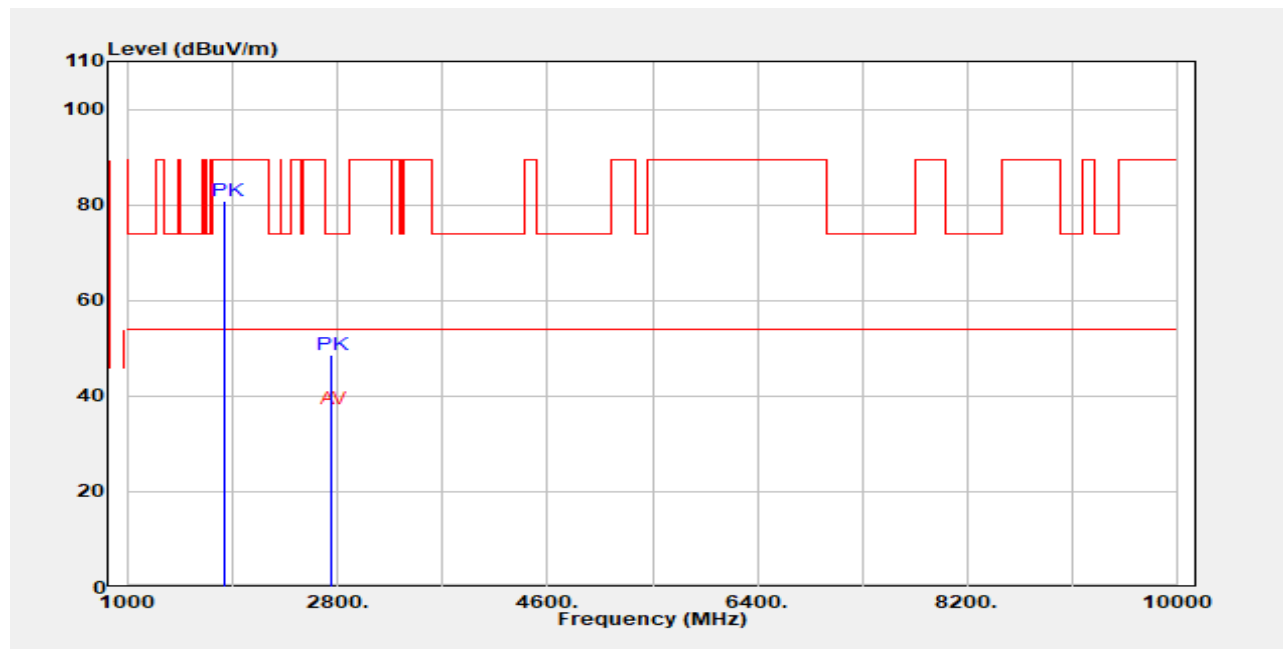
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Report Number :TERF2505001770ER
Operation Mode :802.11ah 8M
Test Frequency :916 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



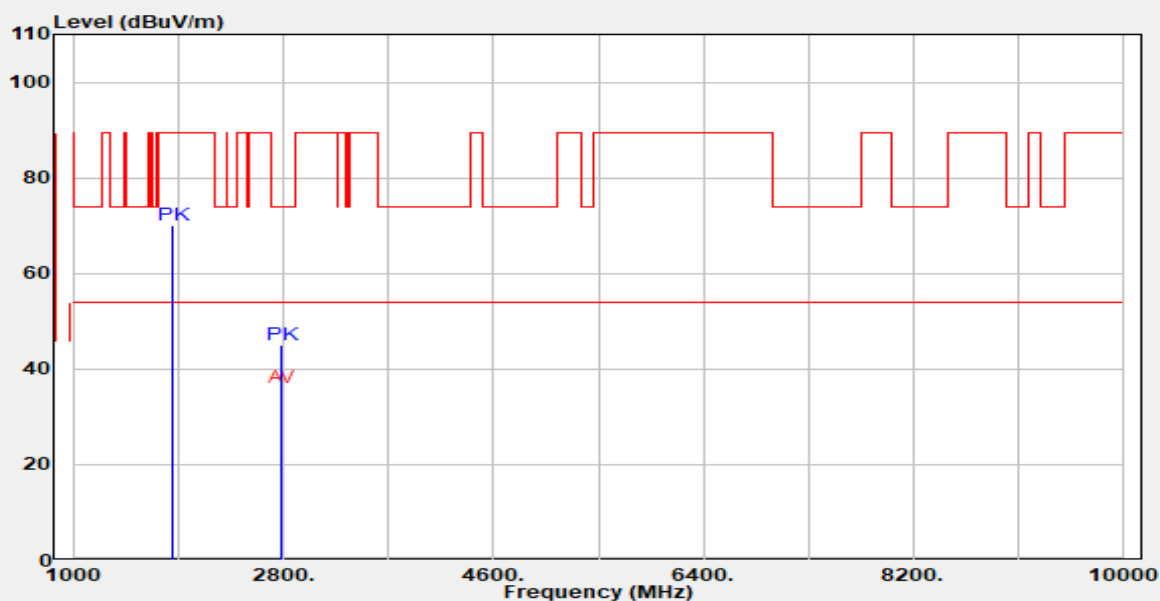
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1832.000	Peak	85.14	-4.23	80.91	89.53	-8.62
2748.000	Average	38.06	-0.94	37.12	54.00	-16.88
2748.000	Peak	49.46	-0.94	48.52	74.00	-25.48

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 8M
Test Frequency :924 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-27
Temp./Humi. :22.1°C/67%
Antenna Pol. :Vertical
Engineer :WJ Lin



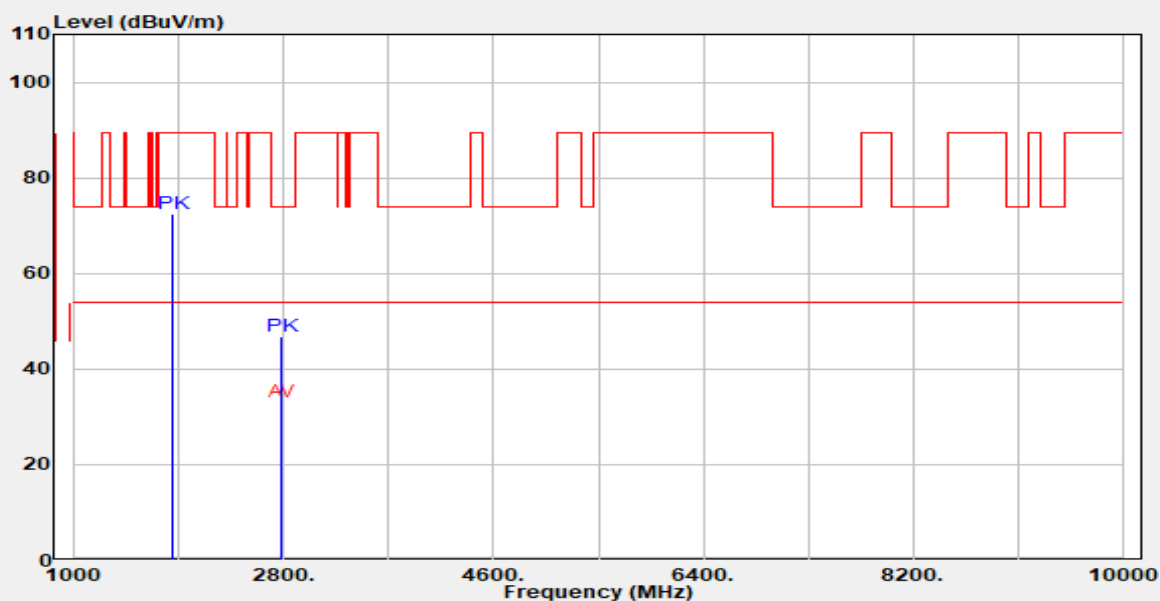
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1848.000	Peak	74.18	-4.04	70.14	89.53	-19.39
2772.000	Average	36.80	-0.69	36.11	54.00	-17.89
2772.000	Peak	45.75	-0.69	45.06	74.00	-28.94

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Report Number :TERF2505001770ER
Operation Mode :802.11ah 8M
Test Frequency :924 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-06-30
Temp./Humi. :22.1°C/67%
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1848.000	Peak	76.54	-4.04	72.50	89.53	-17.03
2772.000	Average	33.93	-0.69	33.24	54.00	-20.76
2772.000	Peak	47.44	-0.69	46.75	74.00	-27.25

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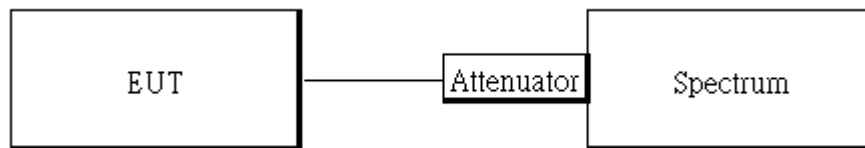
12 POWER SPECTRAL DENSITY

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. & the VBW = 10 kHz
5. Set Detector = average
6. Sweep time = auto couple.
7. Set Trace mode = average
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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12.4 Measurement Result:

OFDM 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
902.5	-7.981	8	PASS
903.5	7.959	8	PASS
914.5	7.727	8	PASS
926.5	7.924	8	PASS
927.5	-10.047	8	PASS

***Note:**

- 1.cable loss as 20.29dB that offsets in the spectrum
- 2.The antenna gain is grater than 6 dBi, therefore the power density limit attenuation has been applied in the test results. $8-(\text{antenna gain}-6)=8$

OFDM 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
903	-11.516	8	PASS
905	4.493	8	PASS
915	3.787	8	PASS
925	4.461	8	PASS
927	-11.990	8	PASS

***Note:**

- 1.cable loss as 20.29dB that offsets in the spectrum
- 2.The antenna gain is grater than 6 dBi, therefore the power density limit attenuation has been applied in the test results. $8-(\text{antenna gain}-6)=8$

OFDM 4M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
906	-1.021	8	PASS
914	1.137	8	PASS
926	-10.484	8	PASS

***Note:**

- 1.cable loss as 20.29dB that offsets in the spectrum
- 2.The antenna gain is grater than 6 dBi, therefore the power density limit attenuation has been applied in the test results. $8-(\text{antenna gain}-6)=8$

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OFDM 8M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
908	-2.577	8	PASS
916	-1.233	8	PASS
924	-9.632	8	PASS

***Note:**

- 1.cable loss as 20.29dB that offsets in the spectrum**
- 2.The antenna gain is grater than 6 dBi, therefore the power density limit attenuation has been applied in the test results. 8-(antenna gain-6)=8**

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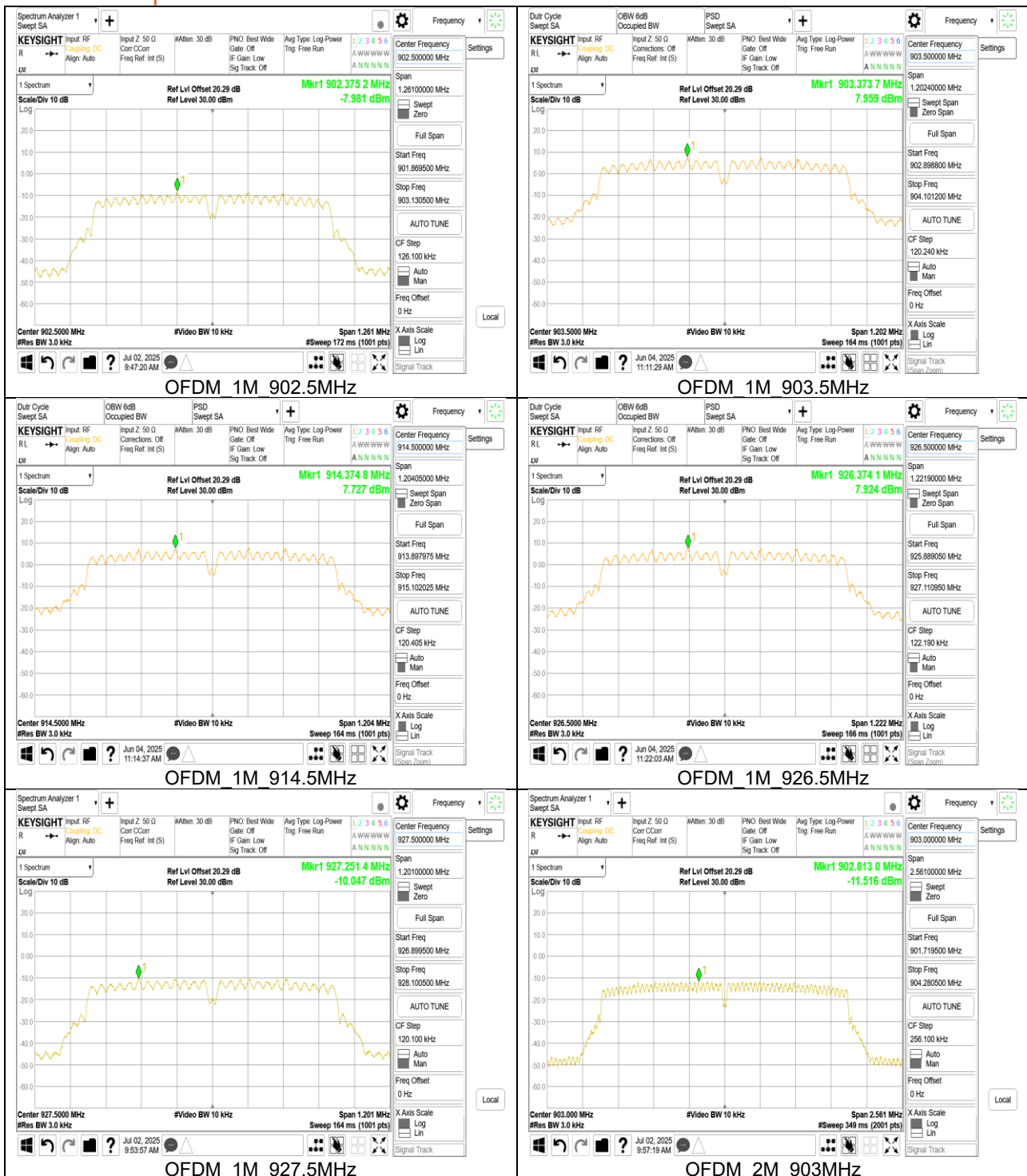
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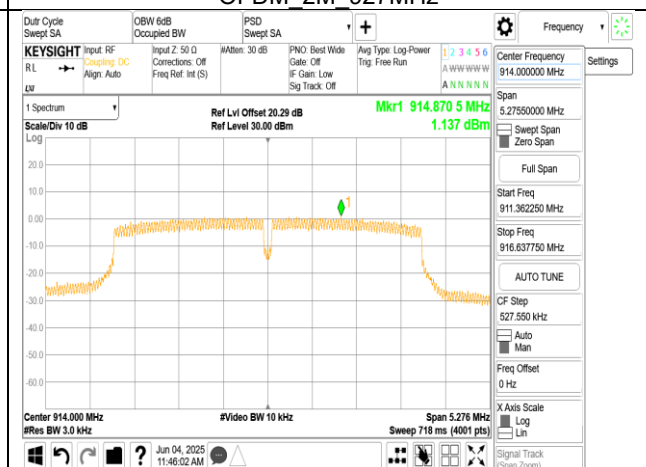
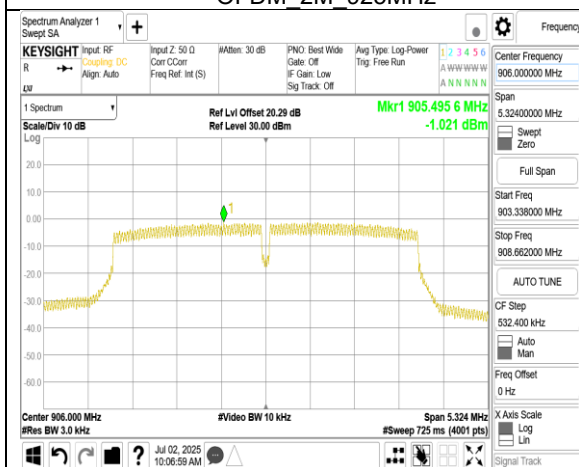
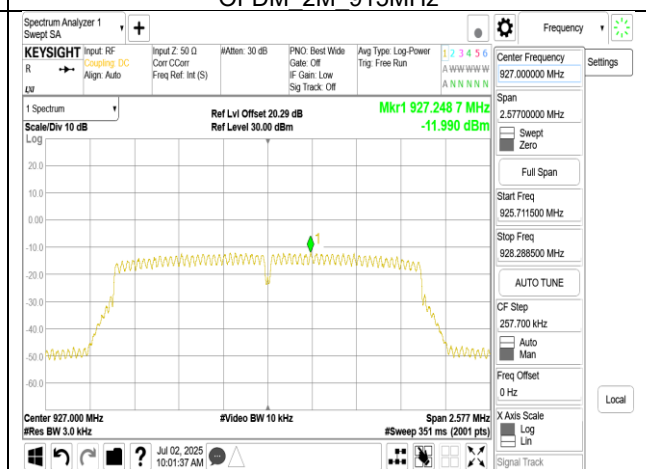
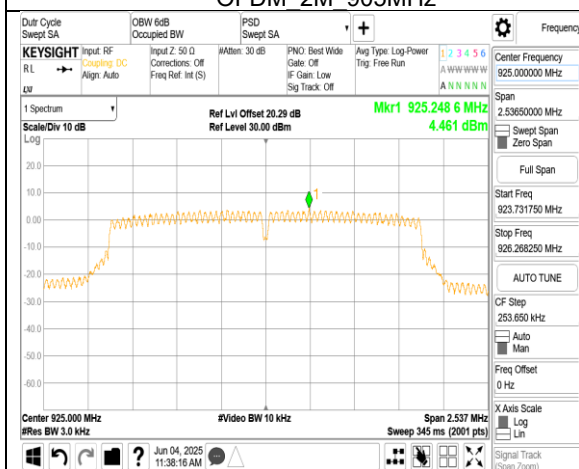
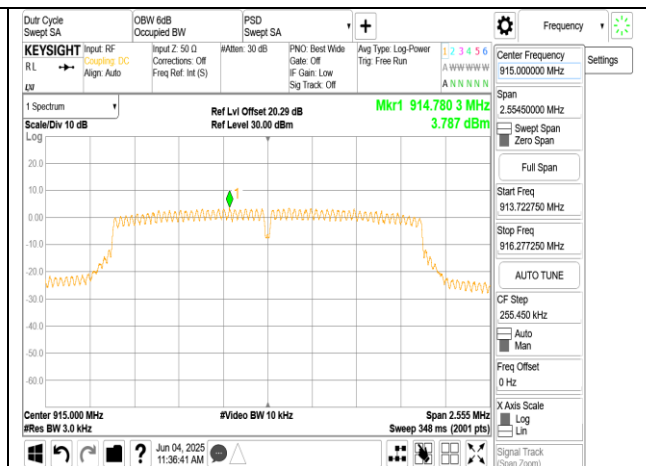
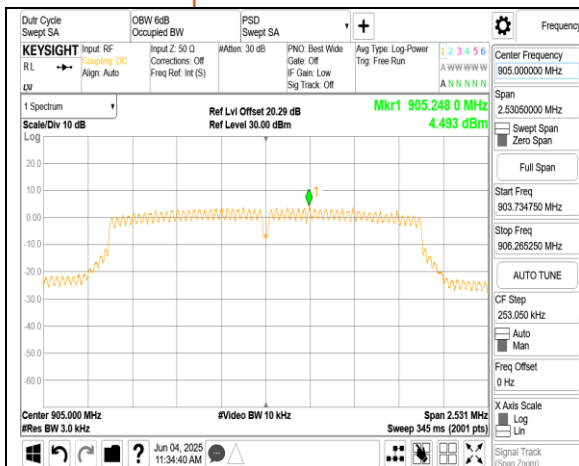
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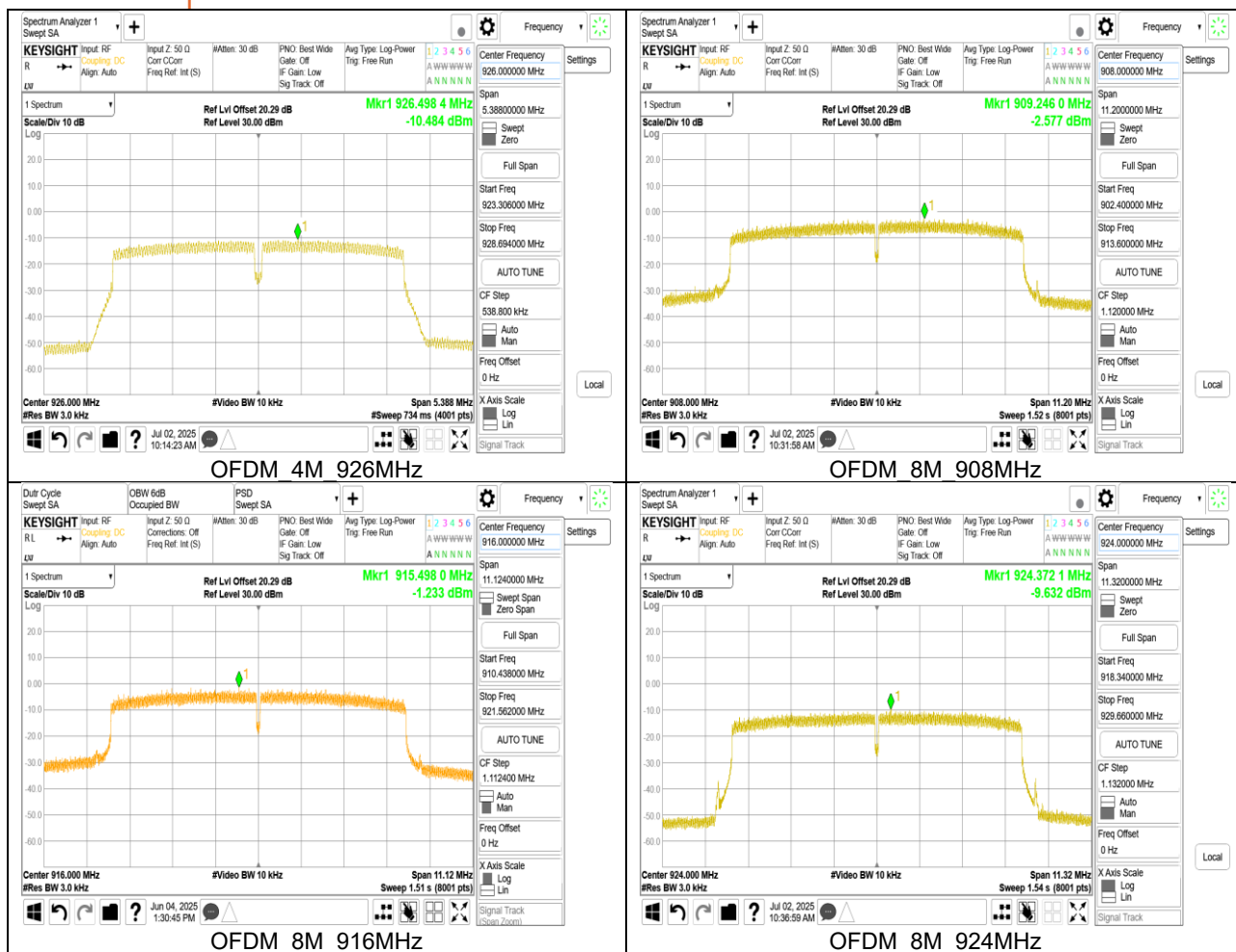
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13 ANTENNA REQUIREMENT

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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