ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

EUT Description	AW-HM677
Applicant:	Morse Micro Pty Ltd Level 8, 10-14 Waterloo St, Surry Hills NSW 2010, Australia
Manufacturer:	Morse Micro Pty Ltd Level 8, 10-14 Waterloo St, Surry Hills NSW 2010, Australia
Brand Name:	Azurewave
Model No.:	AW-HM677
Report Number:	TERF2506001934ER
FCC ID	2A74O-737B5B
Date of EUT Received:	June 9, 2025
Date of Test:	June 9, 2025～June 20, 2025
Issue Date:	August 6, 2025

Approved By Alex Hsieh

Alex Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2506001934ER	00	Class II Permissive Change for variant model number (AW-HM677) and add antenna	July 22, 2025	Karen Huang	
TERF2506001934ER	01	Update antenna information and add duty cycle	August 6, 2025	Karen Huang	*

Note:

1、The remark "*" indicates modification of the report upon requests from certification body.

2、Addendum to the original test report
This test report is an addendum to the original test report **TERF2502000807ER.** The variant model numbers / trademarks is/are assessed as identical in RF parameters to each other, the HW / SW version change does not affect compliance, hence all variants are fully covered by the test results in this test report with spot check evaluation on Radiated Emission test to demonstrate compliance.

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	AW-HM677
Brand Name:	Azurewave
Model No.:	AW-HM677
Hardware Version:	v2.1
Firmware Version:	FW 1.15.4
EUT Series No.:	0-01G27E
Power Supply:	3.3Vdc
Test Software (Name/Version)	RF Tester Etna v3.2

1.2 RF Specification

Radio Technology:	802.11ah
Frequency Range:	902~928MHz
Modulation type:	OFDM

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Model	Peak Antenna Gain (dBi)
Dipole	902~928	W1063	1
	902~928	AN0915-5005BSM	2.34

Note: The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and 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.

2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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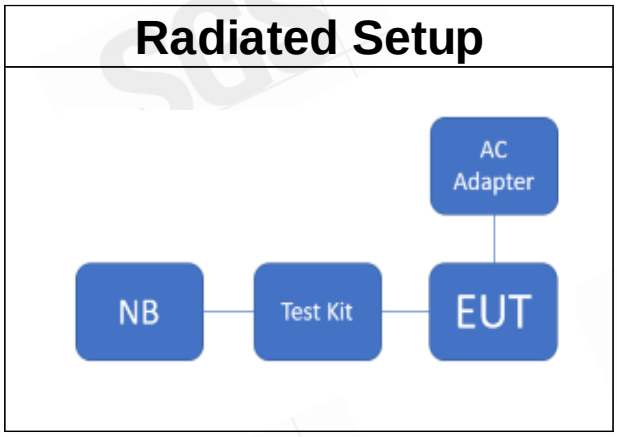
2.5 Test Configuration



2.6 Control Unit(s)

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	5CD238GDV7	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

	OFDM 1M		OFDM 2M		OFDM 4M		OFDM 8M	
	CH	Freq.(MHz)	CH	Freq.(MHz)	CH	Freq.(MHz)	CH	Freq.(MHz)
Channel List	1	902.5	2	903	8	906	12	908
	3	903.5	6	905	16	910	28	916
	5	904.5	10	907	24	914	44	924
	7	905.5	14	909	32	918		
	9	906.5	18	911	40	922		
	11	907.5	22	913	48	926		
	13	908.5	26	915				
	15	909.5	30	917				
	17	910.5	34	919				
	19	911.5	38	921				
	21	912.5	42	923				
	23	913.5	46	925				
	25	914.5	50	927				
	27	915.5						
	29	916.5						
	31	917.5						
	33	918.5						
	35	919.5						
	37	920.5						
	39	921.5						
	41	922.5						
	43	923.5						
	45	924.5						
	47	925.5						
	49	926.5						
	51	927.5						

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

   The given UE is pre-scanned among below modes.

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ah 1M	1 to 51	1,25,51	OFDM	MCS0
802.11ah 2M	2 to 50	2,26,50	OFDM	MCS0
802.11ah 4M	8 to 48	8,24,48	OFDM	MCS0
802.11ah 8M	12 to 44	12,28,44	OFDM	MCS0
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ah 1M	1 to 51	3,25,49	OFDM	MCS0
802.11ah 2M	2 to 50	6,26,46	OFDM	MCS0
802.11ah 4M	8 to 48	8,24,48	OFDM	MCS0
802.11ah 8M	12 to 44	12,28,44	OFDM	MCS0

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	1.54	dB
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Peak Power Density	+/-	0.61	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	**+/-**	**1.89**	**dB**	9kHz~30MHz
	+/-	**4.1**	**dB**	30MHz - 1000MHz
	+/-	**3.37**	**dB**	1GHz - 18GHz
	+/-	**3.83**	**dB**	18GHz - 40GHz
Polarization: Horizontal	**+/-**	**1.89**	**dB**	9kHz~30MHz
	+/-	**4.1**	**dB**	30MHz - 1000MHz
	+/-	**3.37**	**dB**	1GHz - 18GHz
	+/-	**3.83**	**dB**	18GHz - 40GHz
Radiated Spurious Emission	**+/-**	**2**	**dB**	33GHz-50GHz
	+/-	**1.59**	**dB**	50GHz-60GHz
	+/-	**1.71**	**dB**	60GHz-90GHz
	+/-	**1.64**	**dB**	90GHz-140GHz
	+/-	**3.84**	**dB**	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
1.3G High Pass Filter	Woken	WHKX10-1066	19	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	3	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S20W5	3	12/11/2024	12/10/2025
Band Reject Filter 902-928	Titan	T04N90292850S02	24090402-1	10/15/2024	10/14/2025
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/23/2025	01/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A09469	08/30/2024	08/29/2025
Site Cal	SGS	SAC 1	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 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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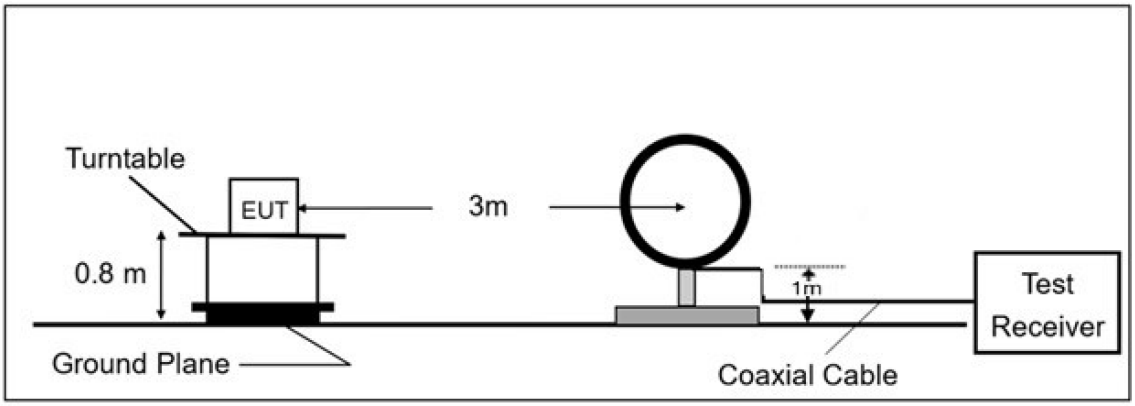
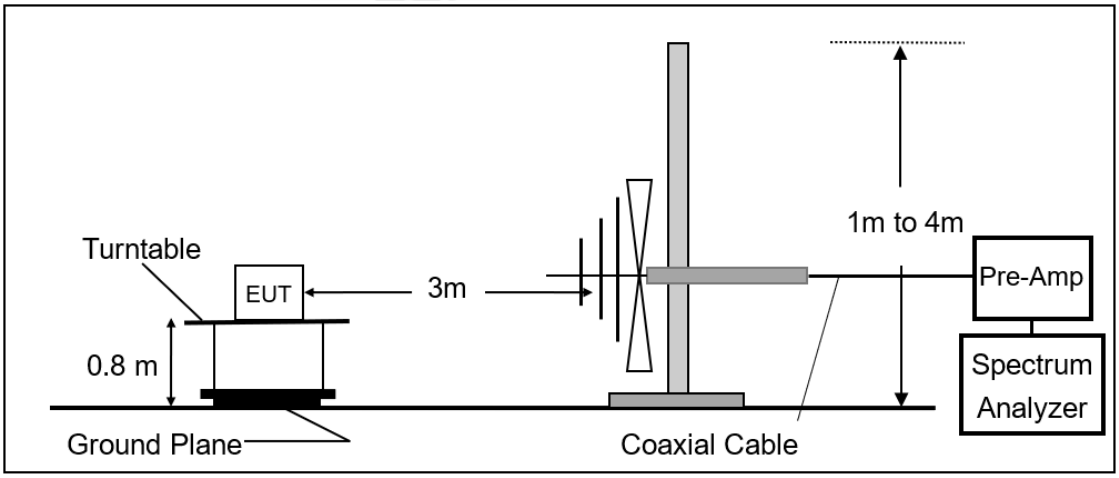
7.2 Test Setup

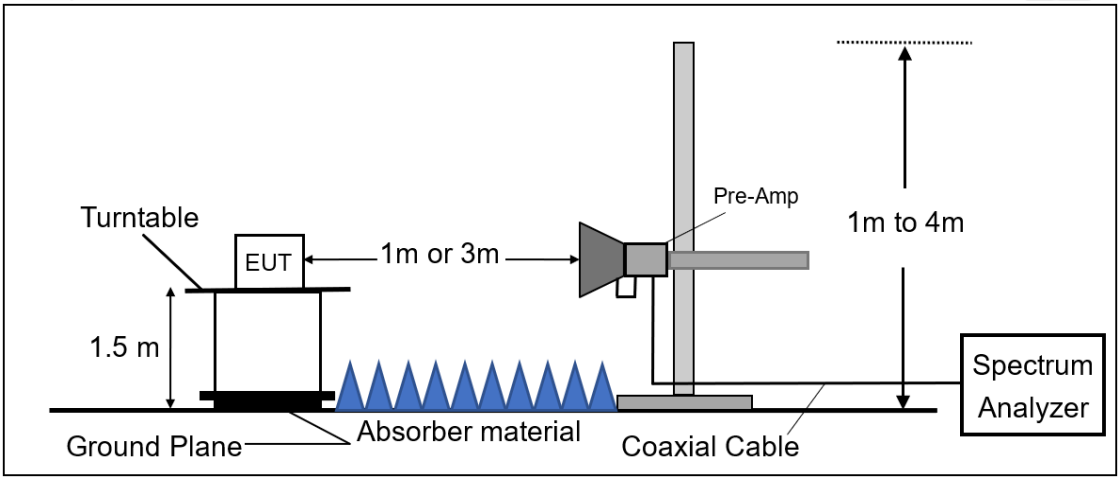
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.3 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 ≥ 98%**. If a specific emission is demonstrated to be continuous (D ≥ 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 ≥ 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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7.4 Field Strength Calculation

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

$$FS = RA + AF + CL - AG$$

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

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

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

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

7.5 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.

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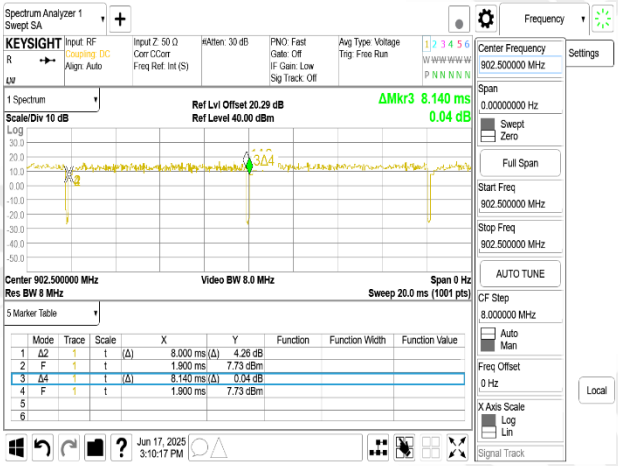
7.6 Measurement Result:

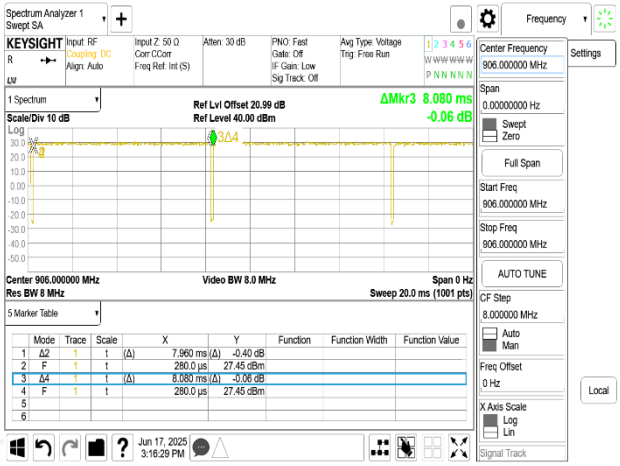
7.6.1 Duty Cycle

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
OFDM_1M	98.28	0.08	0.13	0.01
OFDM_2M	98.27	0.08	0.13	0.01
OFDM_4M	98.51	0.07	0.13	0.01
OFDM_8M	96.57	0.15	0.25	1.00

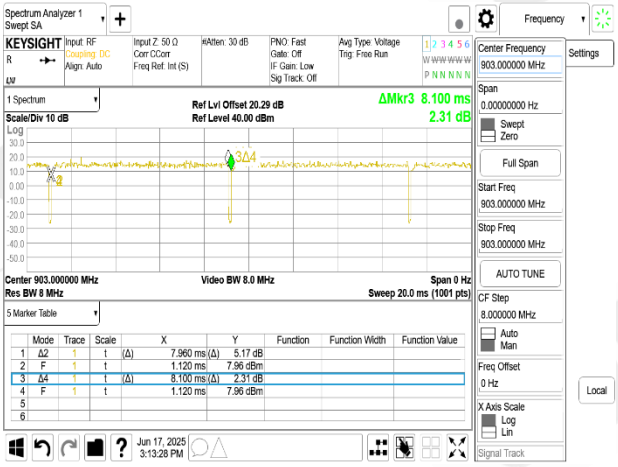
OFDM_1M_902.5MHz



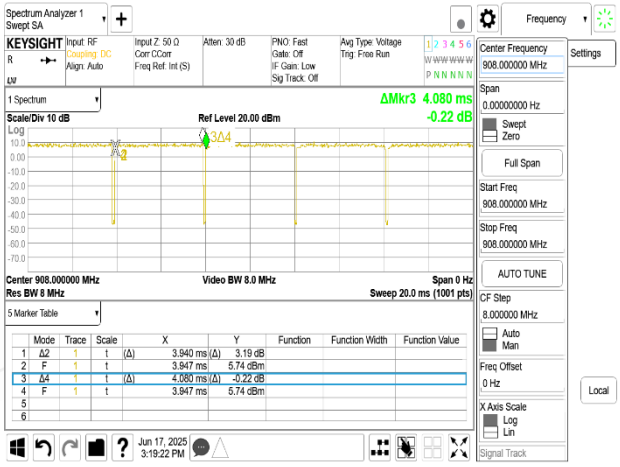
OFDM_4M_906MHz



OFDM_2M_903MHz



OFDM_8M_908MHz



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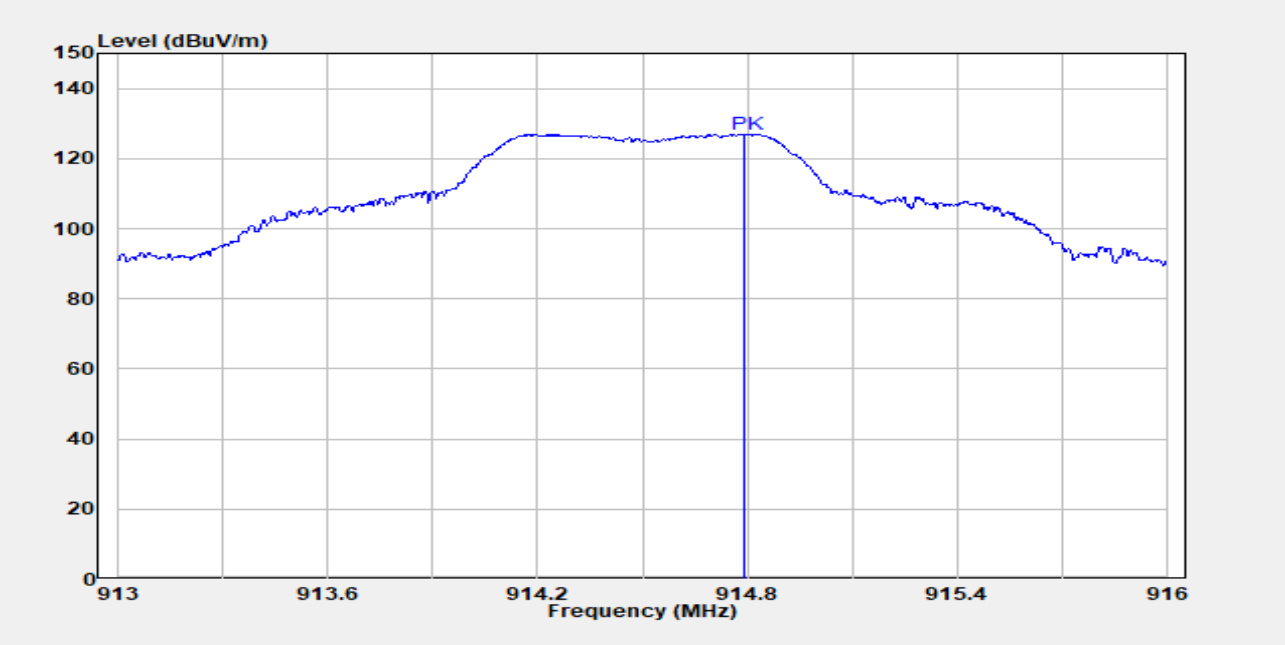
7.6.2 Radiated Main Measurement Result

Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-18
Test Frequency	:914.5 MHz	Temp./Humi.	:22.7℃/66%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:H Plane	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
914.794	Peak	126.04	0.99	127.03	-	-

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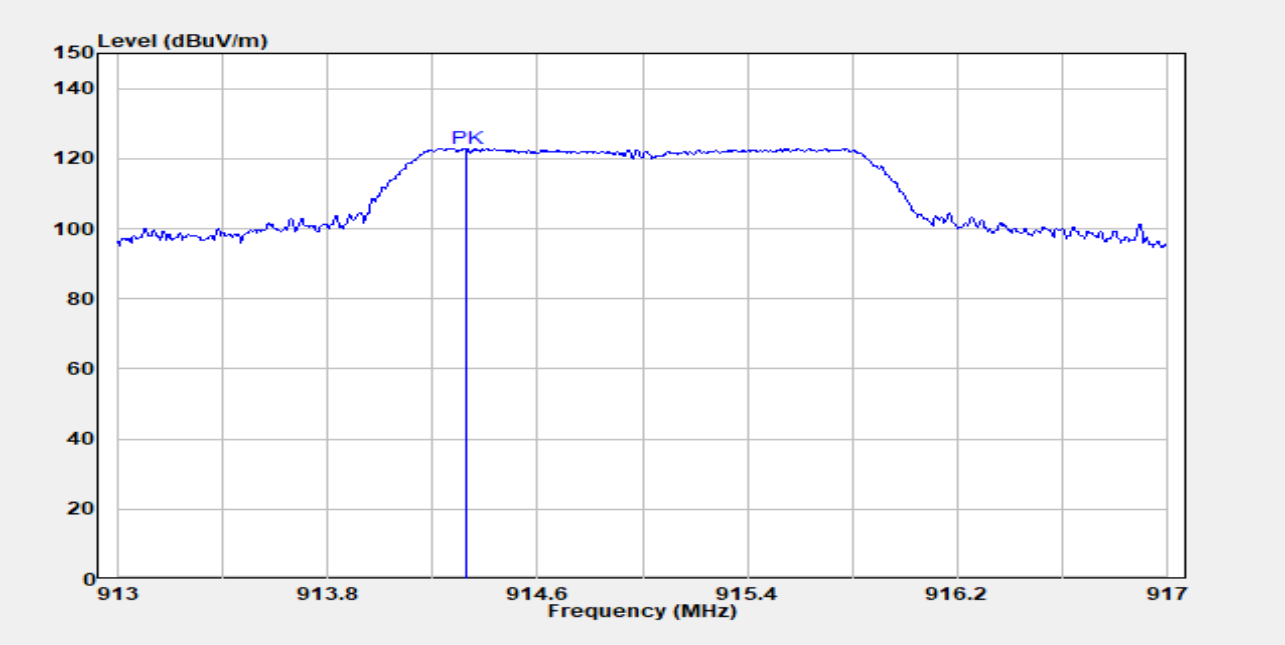
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-18
Test Frequency	:915 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
914.328	Peak	121.90	0.99	122.89	-	-

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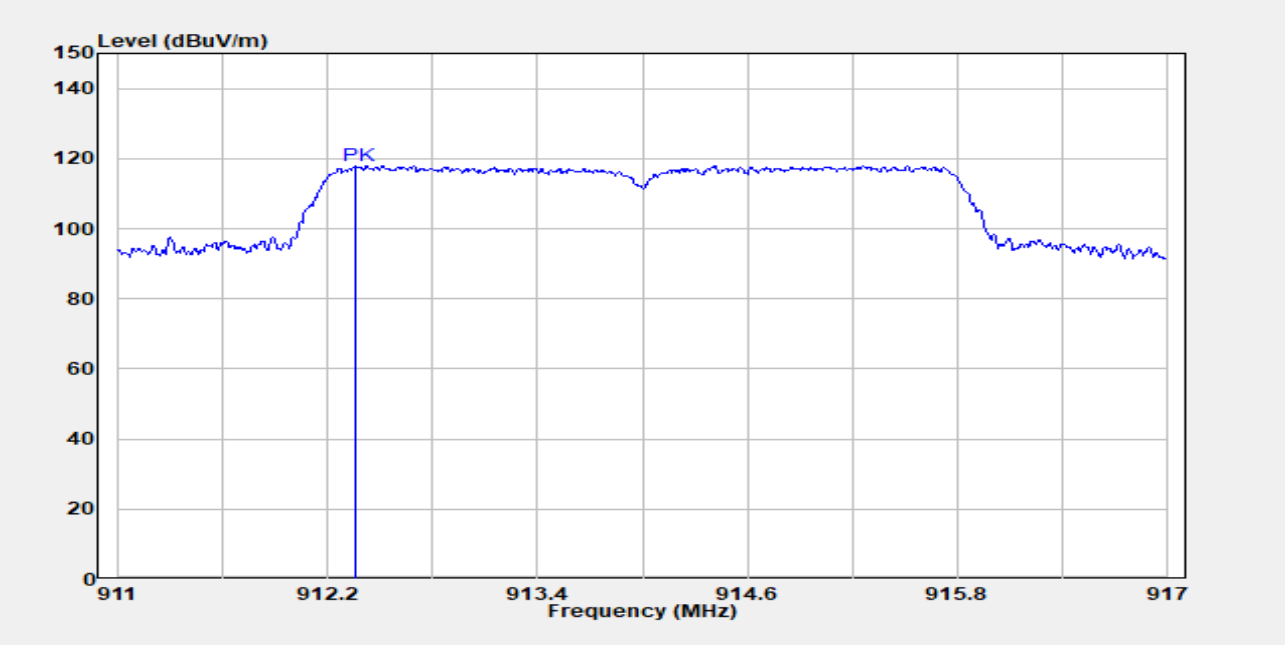
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-18
Test Frequency	:914 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
912.362	Peak	116.86	0.98	117.83	-	-

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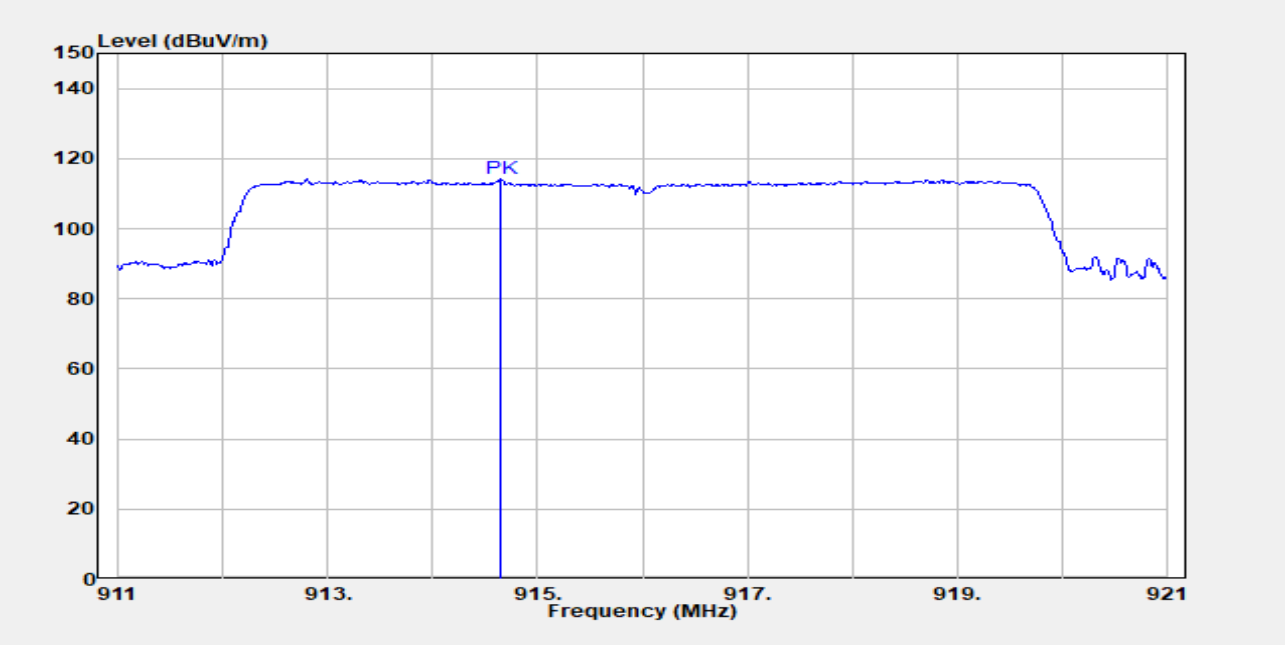
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-18
Test Frequency	:916 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	113.07	0.99	114.07	-	-

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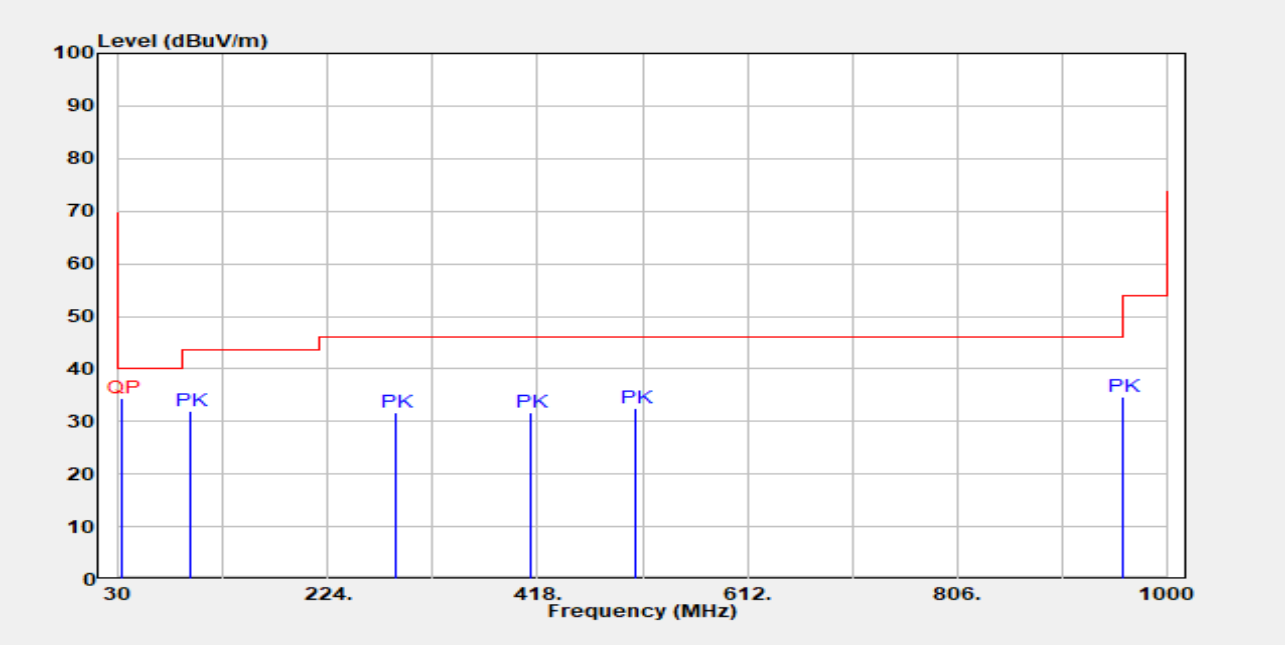
7.6.3 Radiated Spurious Emission

Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-18
Test Frequency	:902.5 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	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	QP	40.92	-6.63	34.29	40.00	-5.71
96.930	Peak	45.43	-13.45	31.98	43.50	-11.52
287.050	Peak	40.35	-8.71	31.64	46.00	-14.36
411.210	Peak	37.30	-5.51	31.79	46.00	-14.21
509.180	Peak	36.99	-4.46	32.53	46.00	-13.47
960.000	Peak	32.57	2.21	34.78	46.00	-11.22

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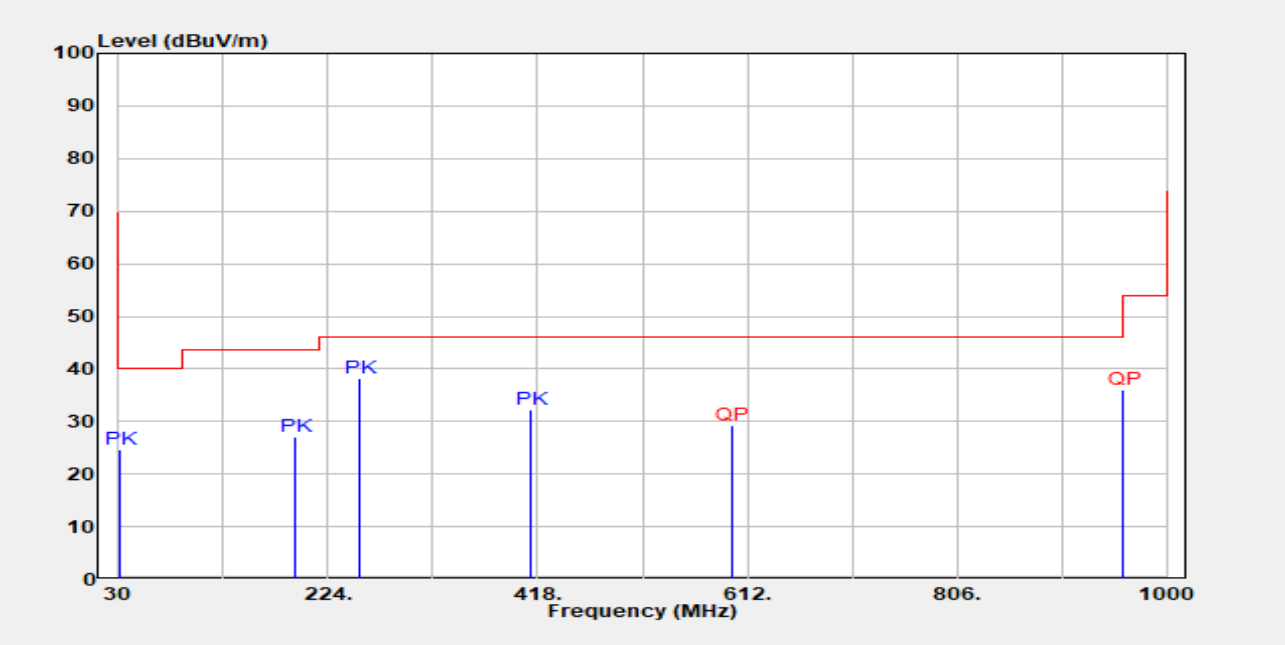
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-18
Test Frequency	:902.5 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
30.970	Peak	30.27	-5.56	24.71	40.00	-15.29
193.930	Peak	40.54	-13.45	27.09	43.50	-16.41
253.100	Peak	47.28	-9.01	38.28	46.00	-7.72
411.210	Peak	37.85	-5.51	32.33	46.00	-13.67
597.450	QP	32.15	-2.95	29.20	46.00	-16.80
960.000	QP	33.85	2.21	36.06	46.00	-9.94

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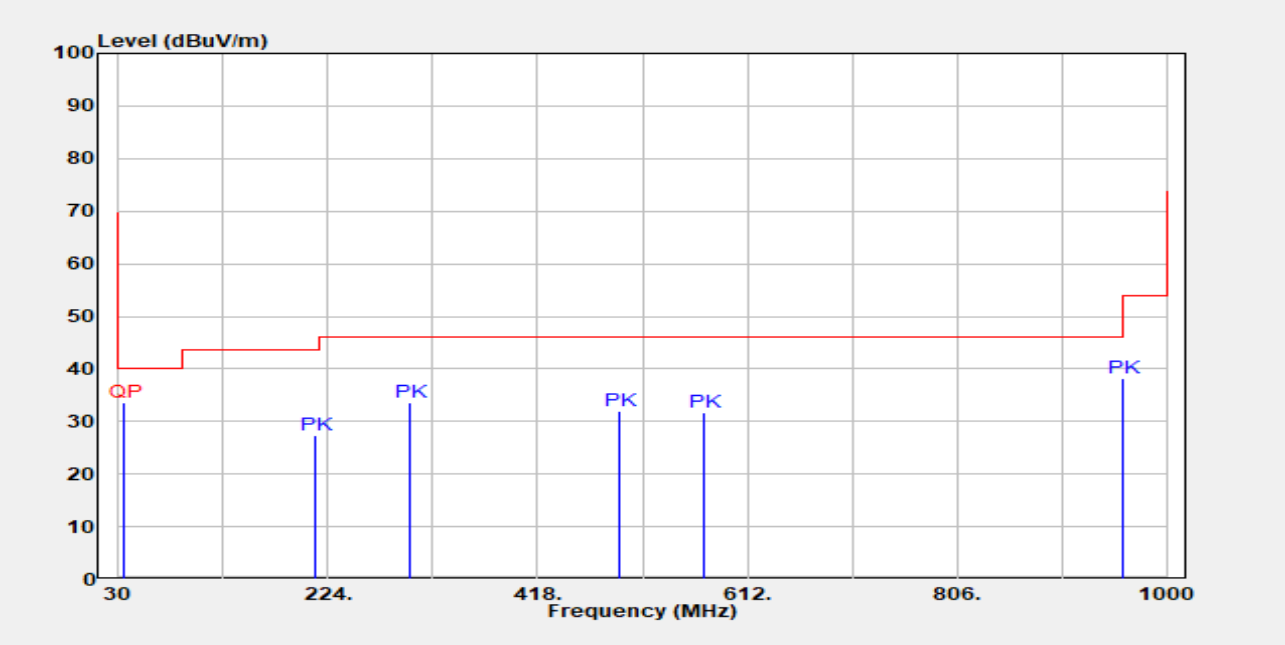
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-18
Test Frequency	:914.5 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.850	QP	40.62	-6.96	33.66	40.00	-6.34
211.390	Peak	40.32	-13.05	27.27	43.50	-16.23
299.660	Peak	41.97	-8.34	33.63	46.00	-12.37
493.660	Peak	36.58	-4.57	32.01	46.00	-13.99
571.260	Peak	34.72	-2.98	31.74	46.00	-14.26
960.000	Peak	35.89	2.21	38.10	46.00	-7.90

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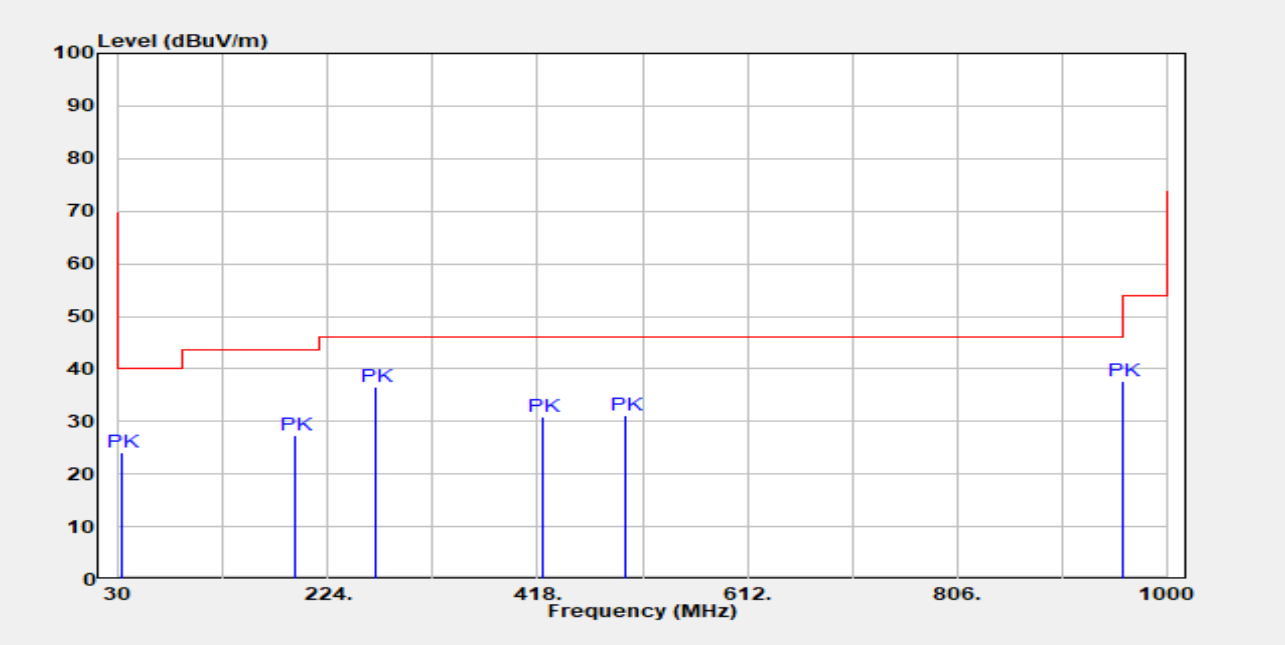
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-18
Test Frequency	:914.5 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	30.64	-6.49	24.15	40.00	-15.85
192.960	Peak	40.74	-13.46	27.28	43.50	-16.22
267.650	Peak	45.13	-8.63	36.50	46.00	-9.50
422.850	Peak	36.30	-5.32	30.98	46.00	-15.02
498.510	Peak	35.86	-4.58	31.29	46.00	-14.71
960.000	Peak	35.48	2.21	37.69	46.00	-8.31

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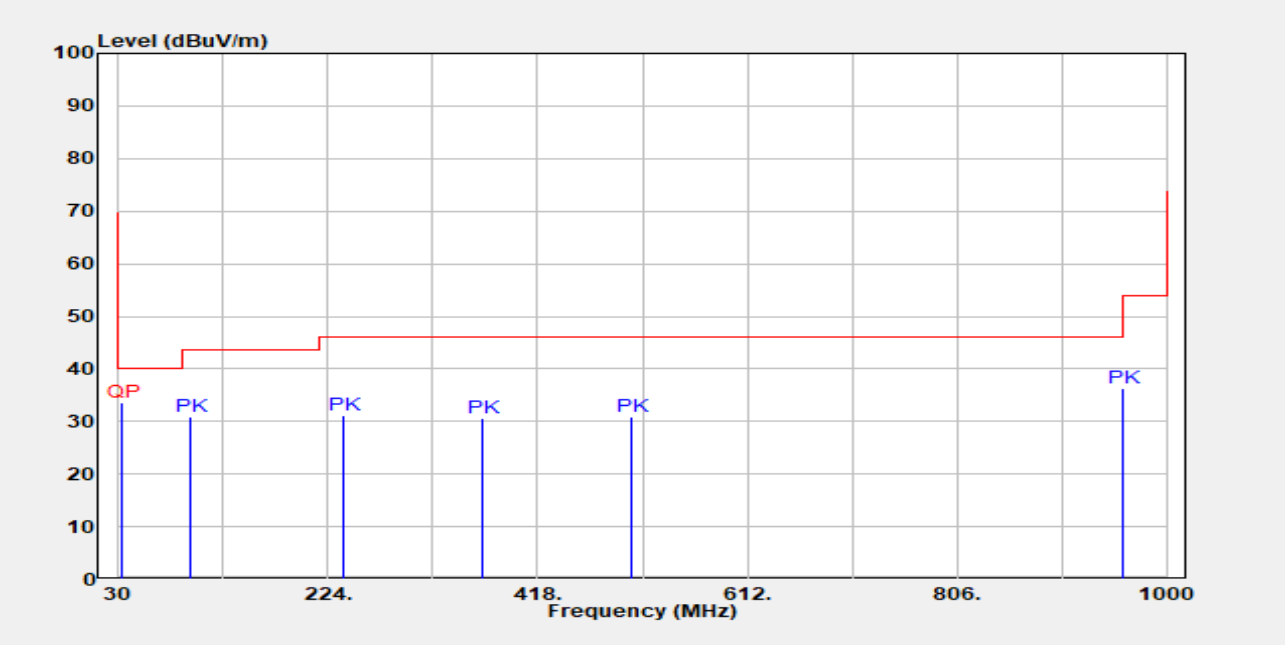
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-18
Test Frequency	:927.5MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	40.31	-6.63	33.68	40.00	-6.32
95.960	Peak	44.46	-13.66	30.80	43.50	-12.70
237.580	Peak	42.14	-11.00	31.14	46.00	-14.86
367.560	Peak	37.45	-6.95	30.51	46.00	-15.49
504.330	Peak	35.51	-4.48	31.03	46.00	-14.97
960.000	Peak	34.17	2.21	36.38	46.00	-9.62

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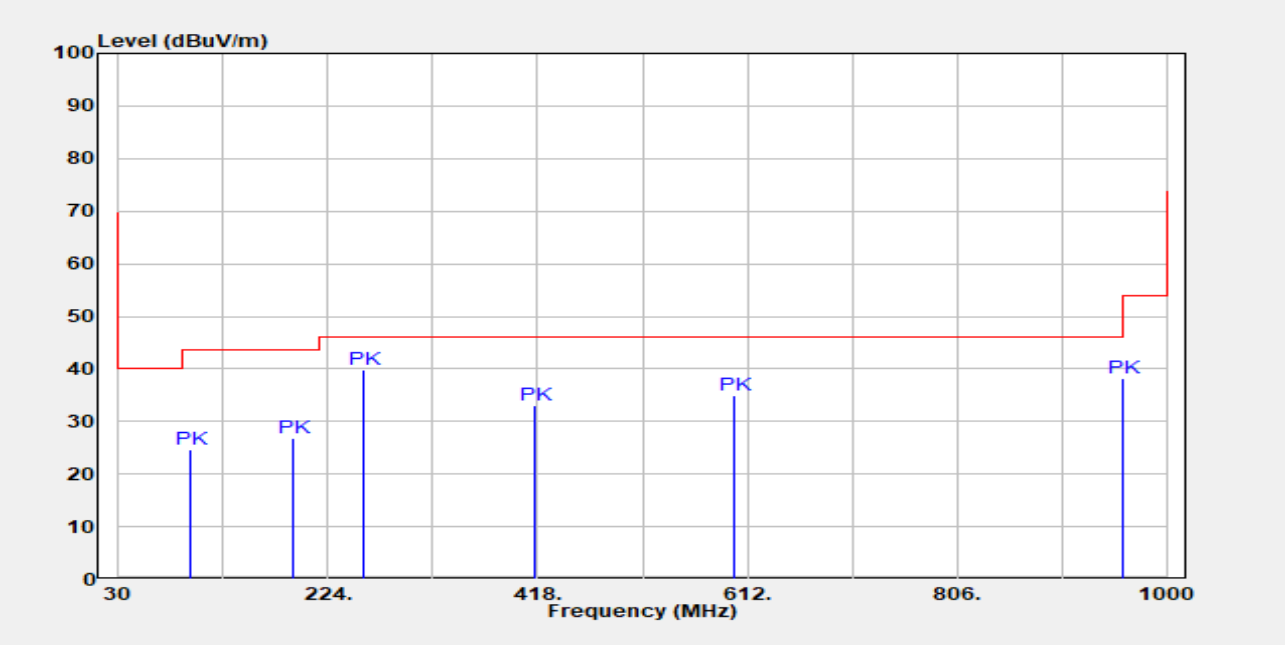
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-18
Test Frequency	:927.5MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
95.960	Peak	38.43	-13.66	24.77	43.50	-18.73
191.020	Peak	40.27	-13.58	26.69	43.50	-16.81
256.010	Peak	48.53	-8.63	39.90	46.00	-6.10
416.060	Peak	38.45	-5.30	33.16	46.00	-12.84
599.390	Peak	37.91	-2.94	34.96	46.00	-11.04
960.000	Peak	36.02	2.21	38.23	46.00	-7.77

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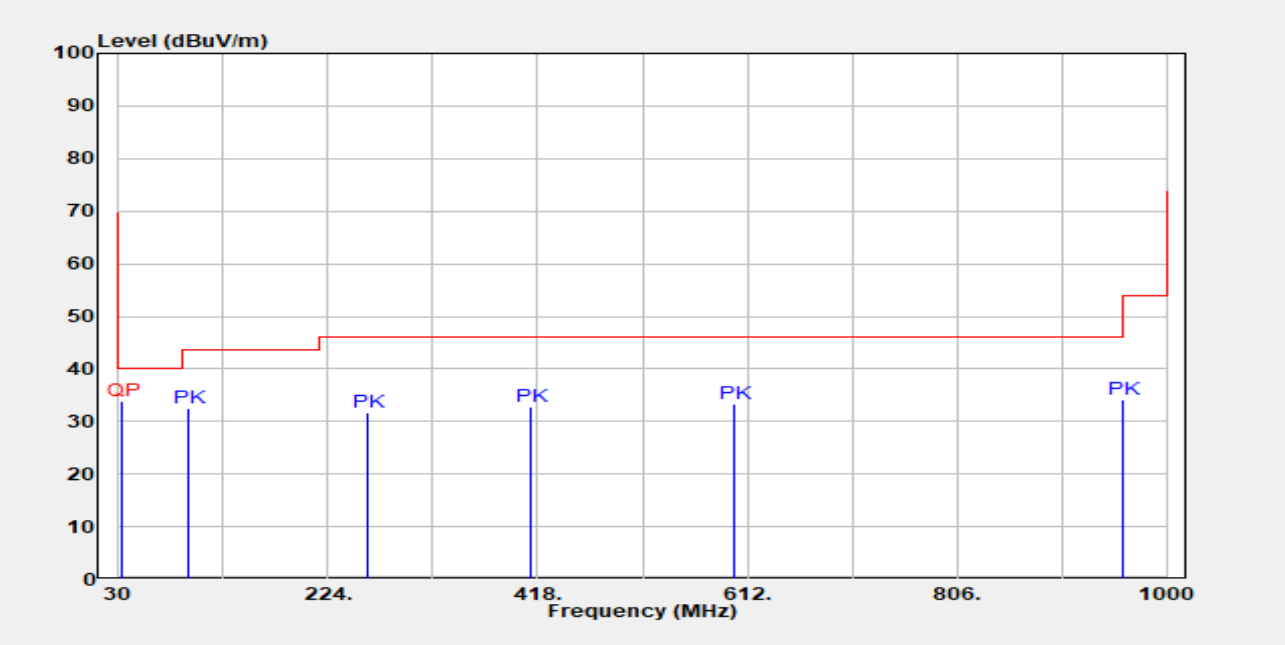
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-18
Test Frequency	:903MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	40.60	-6.63	33.97	40.00	-6.03
94.990	Peak	46.59	-13.96	32.62	43.50	-10.88
260.860	Peak	39.92	-8.16	31.76	46.00	-14.24
411.210	Peak	38.27	-5.51	32.76	46.00	-13.24
599.390	Peak	36.34	-2.94	33.40	46.00	-12.60
960.000	Peak	32.06	2.21	34.27	46.00	-11.73

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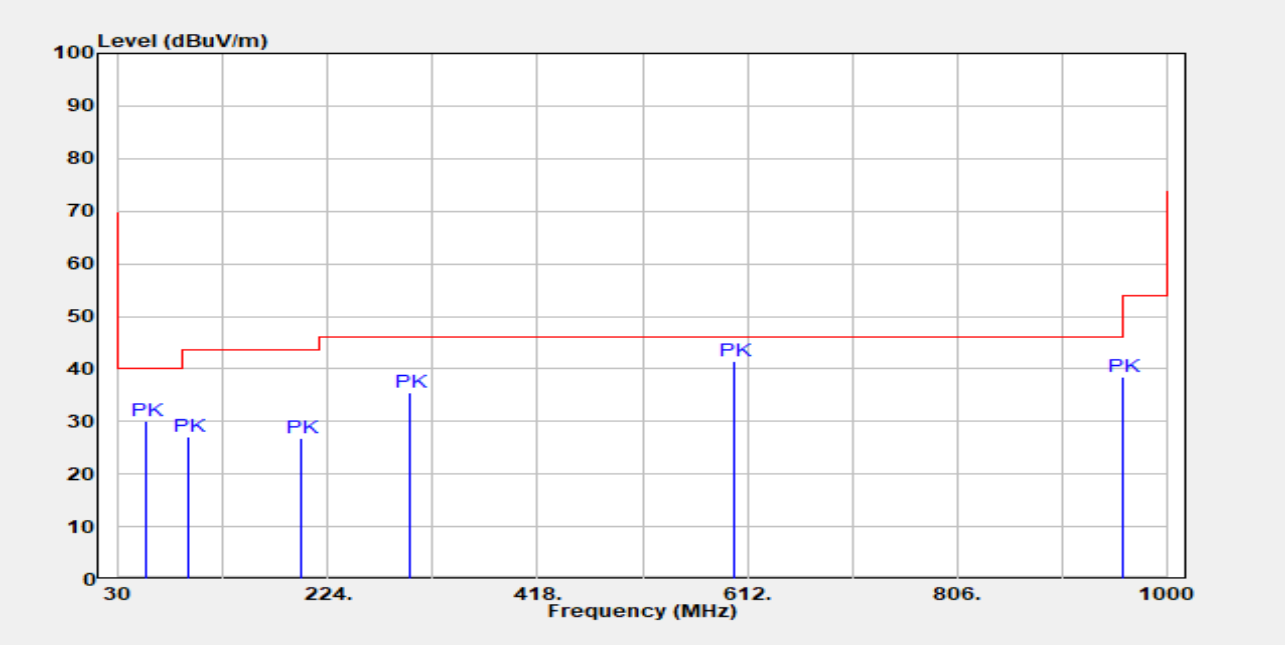
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-18
Test Frequency	:903MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
55.220	Peak	47.72	-17.57	30.15	40.00	-9.85
94.990	Peak	40.95	-13.96	26.99	43.50	-16.51
199.750	Peak	40.02	-13.12	26.90	43.50	-16.60
299.660	Peak	43.97	-8.34	35.63	46.00	-10.37
599.390	Peak	44.42	-2.94	41.48	46.00	-4.52
960.000	Peak	36.19	2.21	38.40	46.00	-7.60

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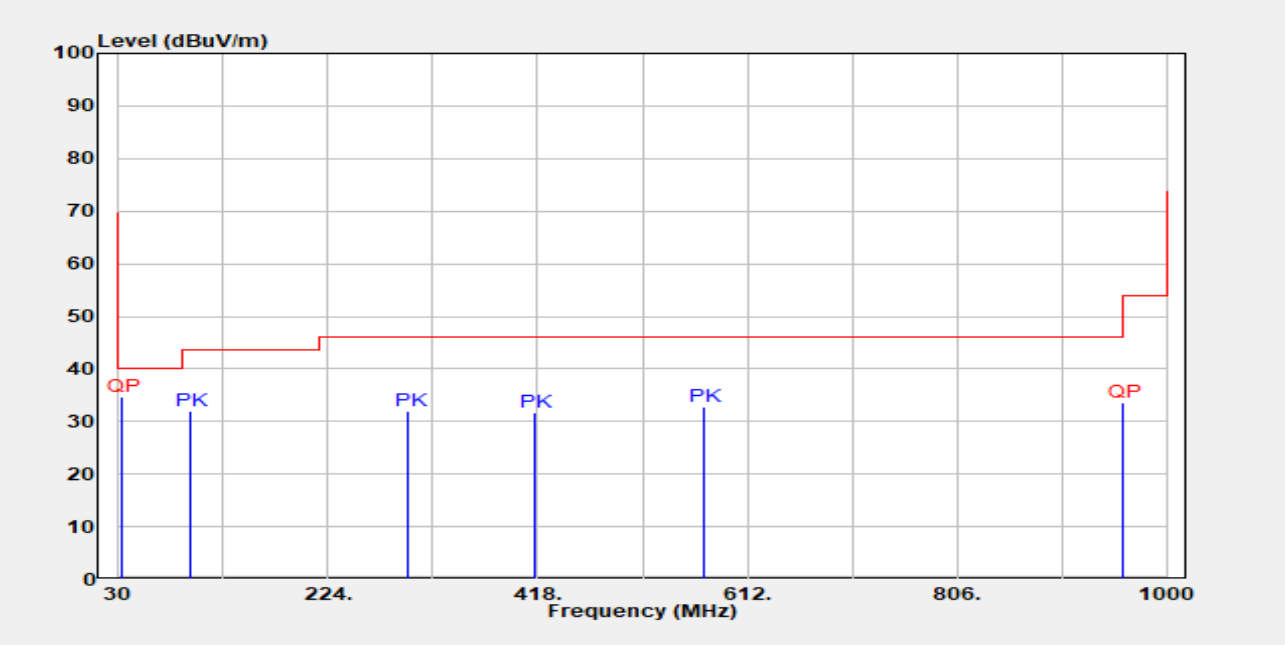
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-18
Test Frequency	:915MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	41.40	-6.63	34.77	40.00	-5.23
96.930	Peak	45.52	-13.45	32.06	43.50	-11.44
298.690	Peak	40.41	-8.36	32.05	46.00	-13.95
415.090	Peak	37.12	-5.30	31.83	46.00	-14.17
571.260	Peak	35.66	-2.98	32.68	46.00	-13.32
960.000	QP	31.34	2.21	33.55	46.00	-12.45

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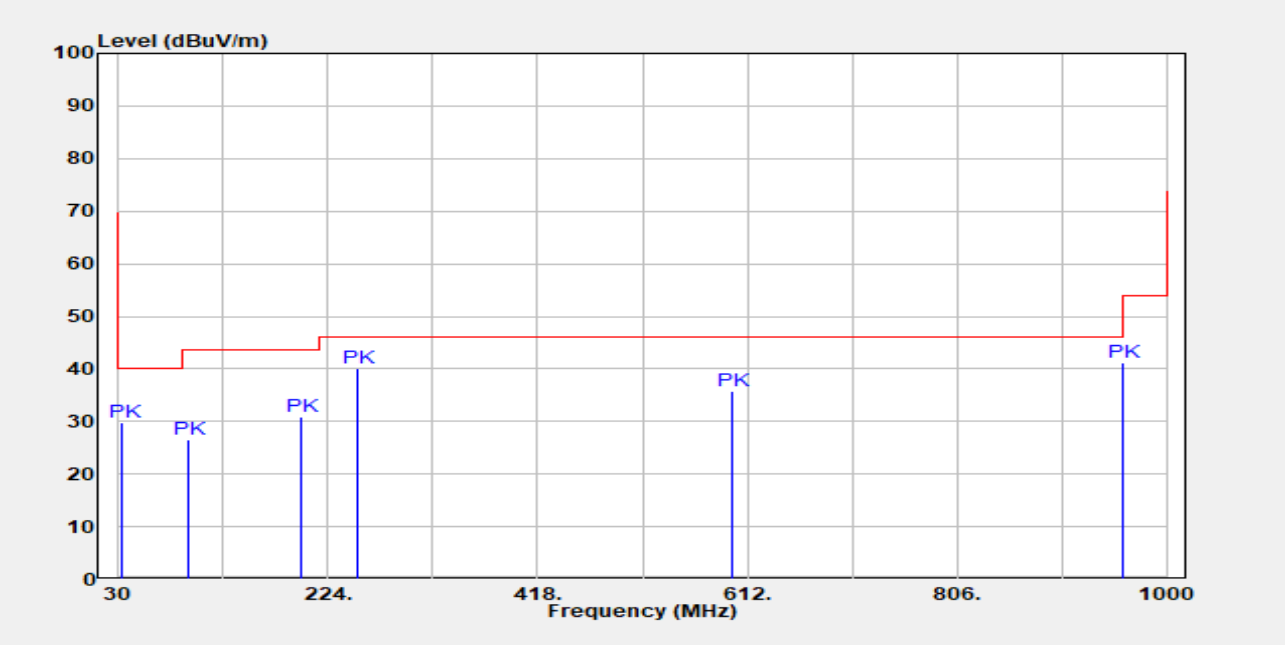
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-18
Test Frequency	:915MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	36.46	-6.63	29.83	40.00	-10.17
94.020	Peak	40.58	-14.07	26.51	43.50	-16.99
199.750	Peak	43.95	-13.12	30.83	43.50	-12.67
251.160	Peak	49.32	-9.26	40.06	46.00	-5.94
597.450	Peak	38.74	-2.95	35.79	46.00	-10.21
960.000	Peak	38.86	2.21	41.07	46.00	-4.93

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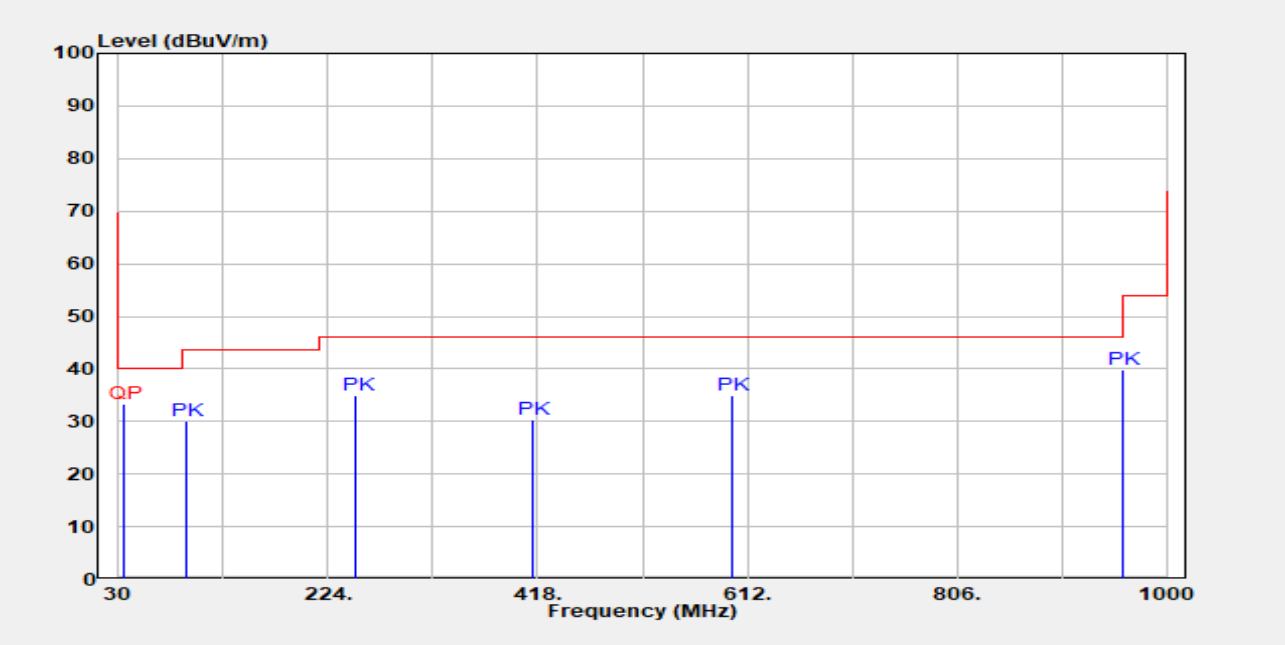
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-18
Test Frequency	:927MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.850	QP	40.20	-6.96	33.24	40.00	-6.76
92.080	Peak	44.67	-14.56	30.11	43.50	-13.39
250.190	Peak	44.21	-9.39	34.83	46.00	-11.17
414.120	Peak	35.70	-5.35	30.36	46.00	-15.64
598.420	Peak	37.83	-2.94	34.89	46.00	-11.11
960.000	Peak	37.51	2.21	39.72	46.00	-6.28

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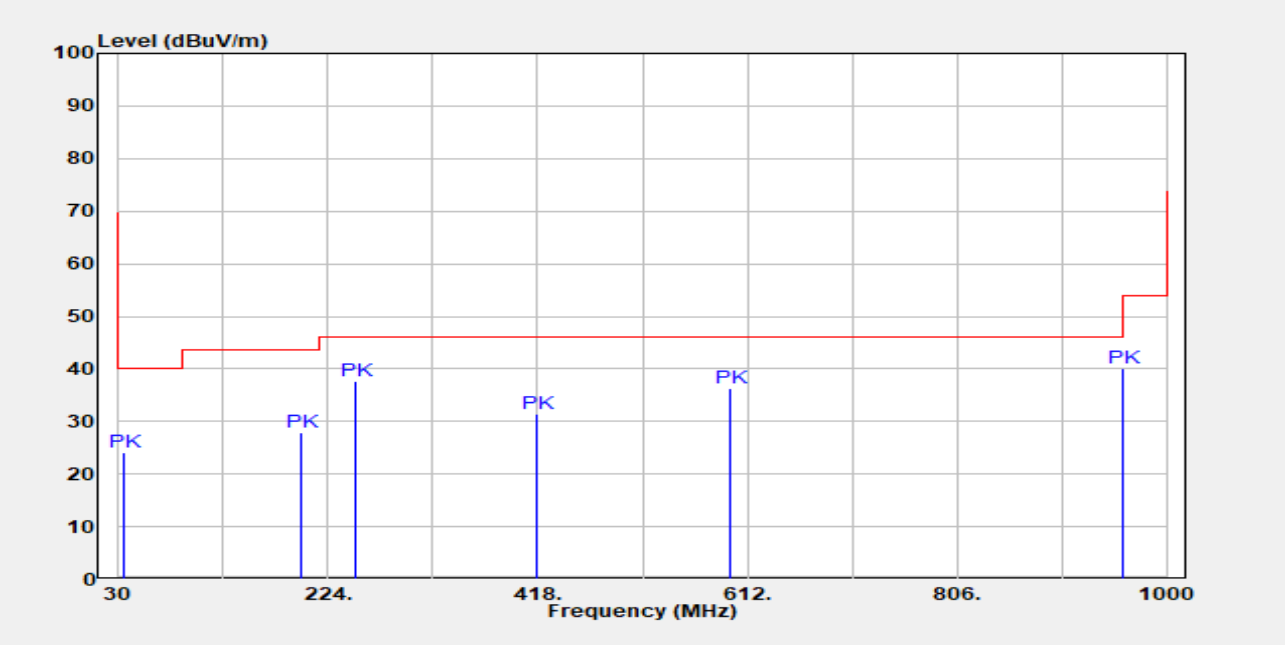
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-18
Test Frequency	:927MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.850	Peak	31.14	-6.96	24.18	40.00	-15.82
199.750	Peak	41.01	-13.12	27.89	43.50	-15.61
249.220	Peak	47.08	-9.53	37.56	46.00	-8.44
417.030	Peak	36.81	-5.30	31.51	46.00	-14.49
596.480	Peak	39.19	-2.95	36.24	46.00	-9.76
960.000	Peak	37.95	2.21	40.16	46.00	-5.84

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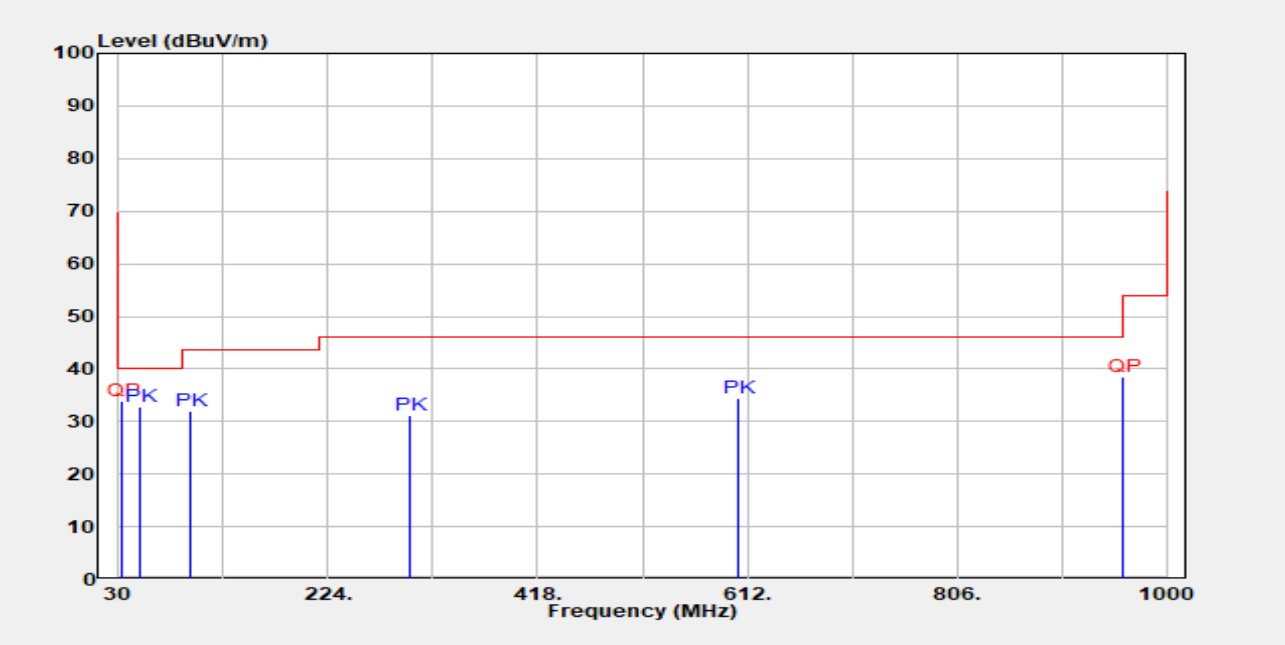
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-18
Test Frequency	:906 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	40.42	-6.63	33.79	40.00	-6.21
49.400	Peak	48.34	-15.55	32.79	40.00	-7.21
95.960	Peak	45.61	-13.66	31.95	43.50	-11.55
299.660	Peak	39.59	-8.34	31.26	46.00	-14.74
604.240	Peak	37.29	-2.91	34.37	46.00	-11.63
960.000	QP	36.33	2.21	38.54	46.00	-7.46

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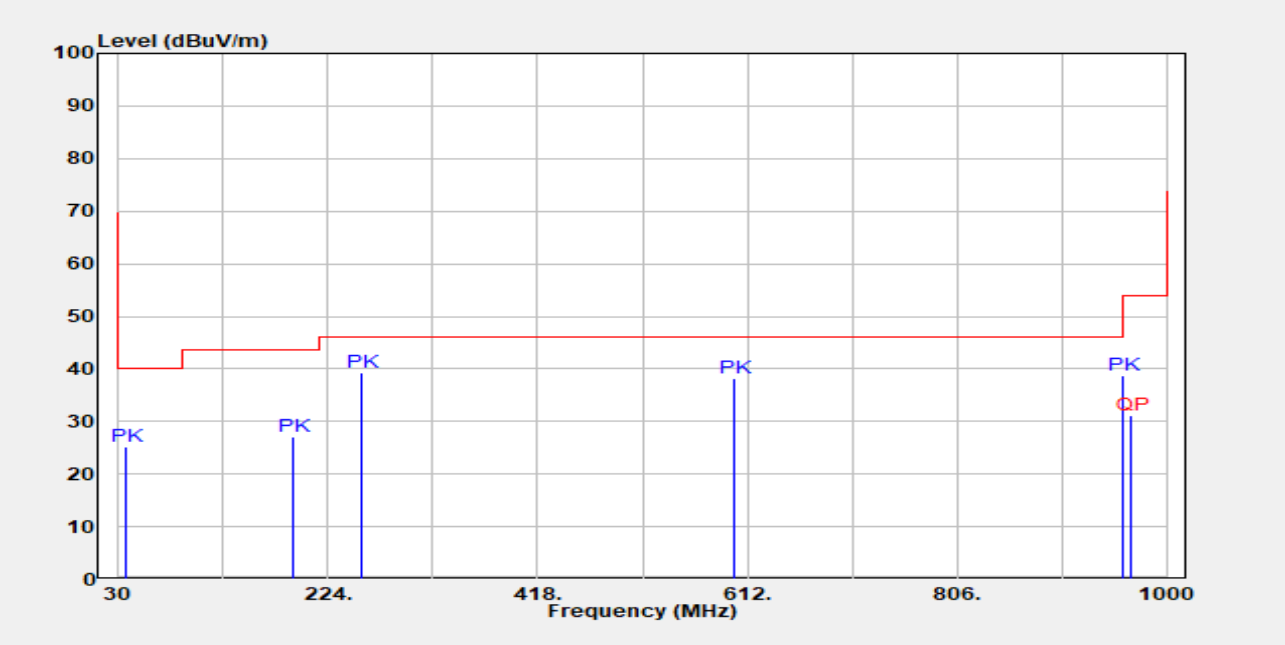
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-18
Test Frequency	:906 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
35.820	Peak	32.77	-7.66	25.11	40.00	-14.89
191.990	Peak	40.44	-13.47	26.97	43.50	-16.53
254.070	Peak	48.11	-8.88	39.23	46.00	-6.77
599.390	Peak	41.27	-2.94	38.33	46.00	-7.67
960.000	Peak	36.44	2.21	38.65	46.00	-7.35
967.020	QP	28.81	2.24	31.05	54.00	-22.95

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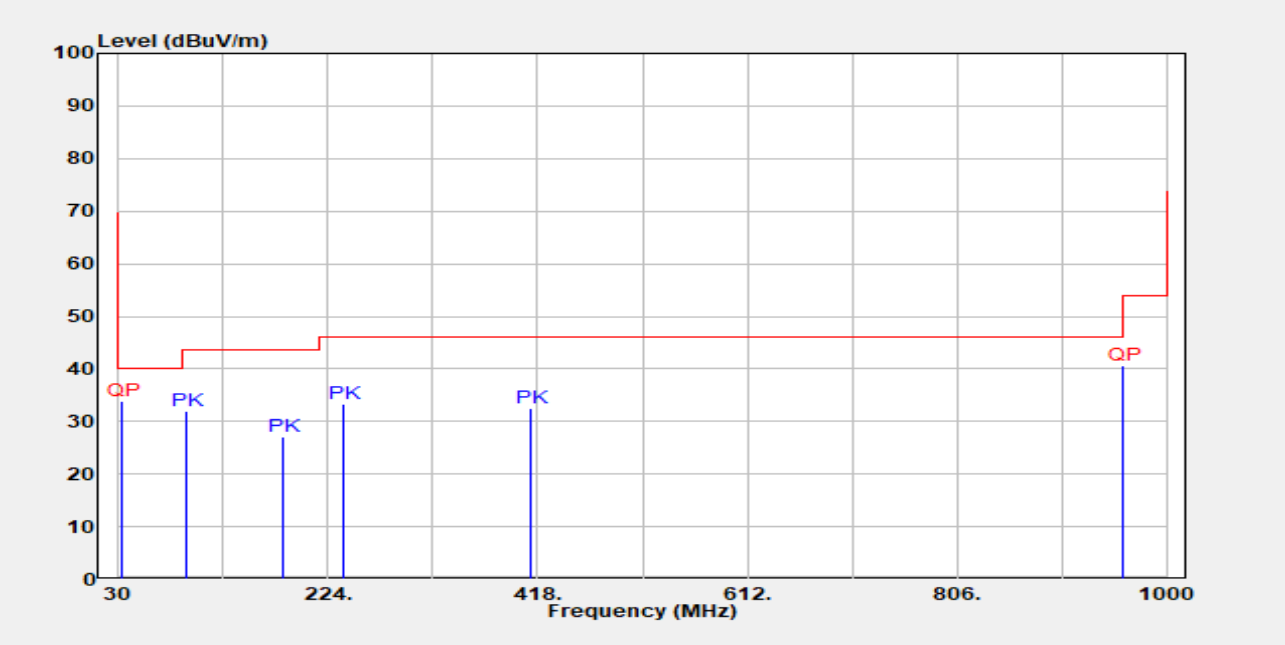
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-18
Test Frequency	:914 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	40.63	-6.63	34.00	40.00	-6.00
93.050	Peak	46.05	-14.17	31.87	43.50	-11.63
181.320	Peak	40.47	-13.49	26.98	43.50	-16.52
238.550	Peak	44.11	-10.87	33.23	46.00	-12.77
412.180	Peak	38.02	-5.46	32.57	46.00	-13.43
960.000	QP	38.35	2.21	40.56	46.00	-5.44

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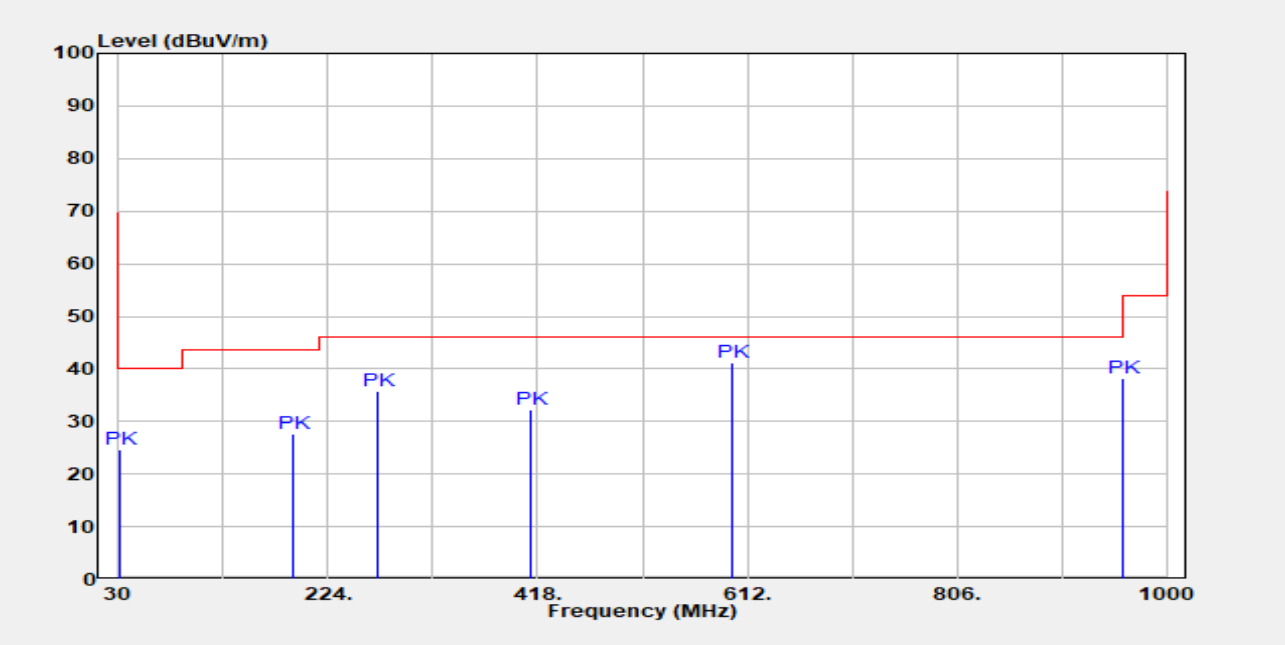
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-18
Test Frequency	:914 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
31.940	Peak	30.42	-5.85	24.57	40.00	-15.43
191.990	Peak	41.22	-13.47	27.75	43.50	-15.75
269.590	Peak	44.48	-8.81	35.67	46.00	-10.33
411.210	Peak	37.78	-5.51	32.27	46.00	-13.73
598.420	Peak	44.18	-2.94	41.24	46.00	-4.76
960.000	Peak	35.91	2.21	38.12	46.00	-7.88

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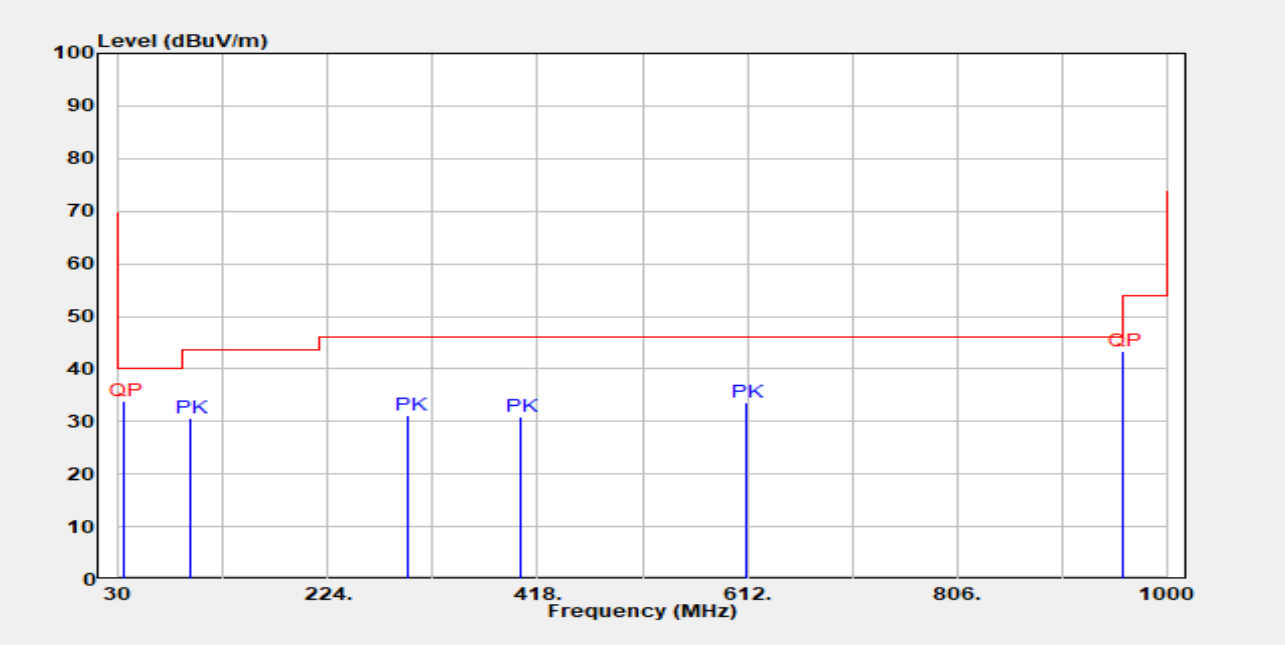
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-18
Test Frequency	:926 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.850	QP	40.82	-6.96	33.86	40.00	-6.14
95.960	Peak	44.20	-13.66	30.54	43.50	-12.96
298.690	Peak	39.50	-8.36	31.14	46.00	-14.86
401.510	Peak	36.78	-5.96	30.81	46.00	-15.19
611.030	Peak	36.43	-2.89	33.54	46.00	-12.46
960.000	QP	41.04	2.21	43.25	46.00	-2.75

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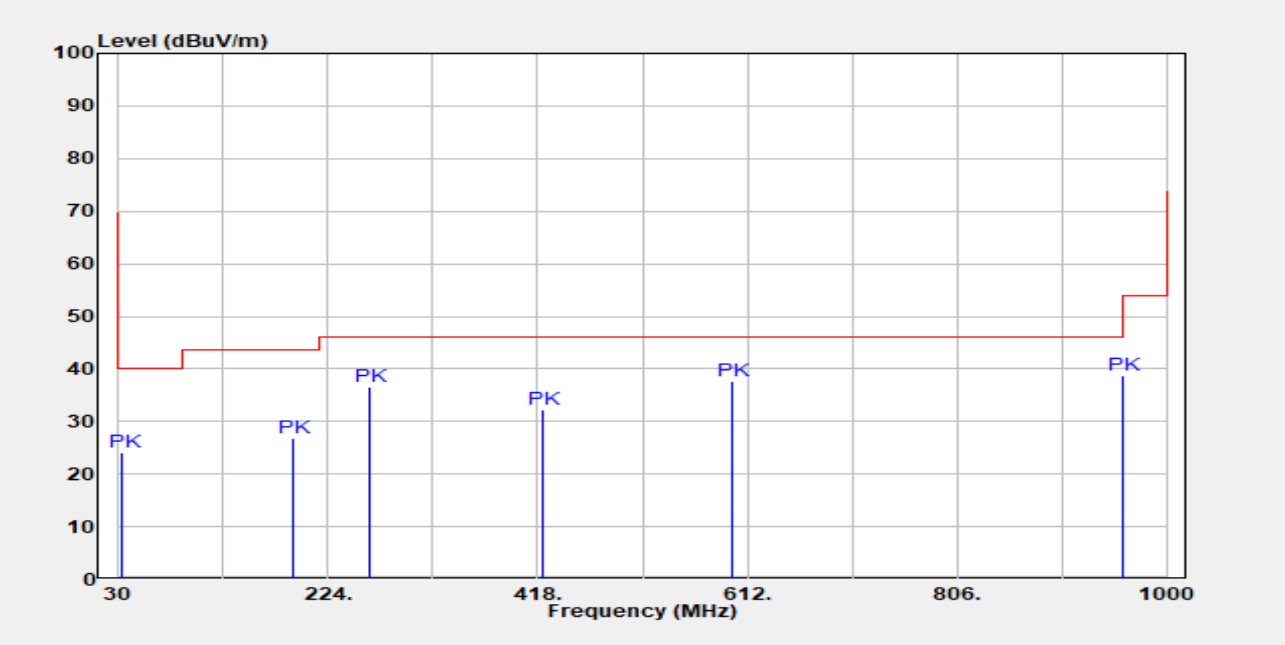
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-18
Test Frequency	:926 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	30.85	-6.63	24.23	40.00	-15.77
191.990	Peak	40.23	-13.47	26.76	43.50	-16.74
262.800	Peak	44.77	-8.26	36.51	46.00	-9.49
422.850	Peak	37.46	-5.32	32.14	46.00	-13.86
598.420	Peak	40.64	-2.94	37.69	46.00	-8.31
960.000	Peak	36.48	2.21	38.69	46.00	-7.31

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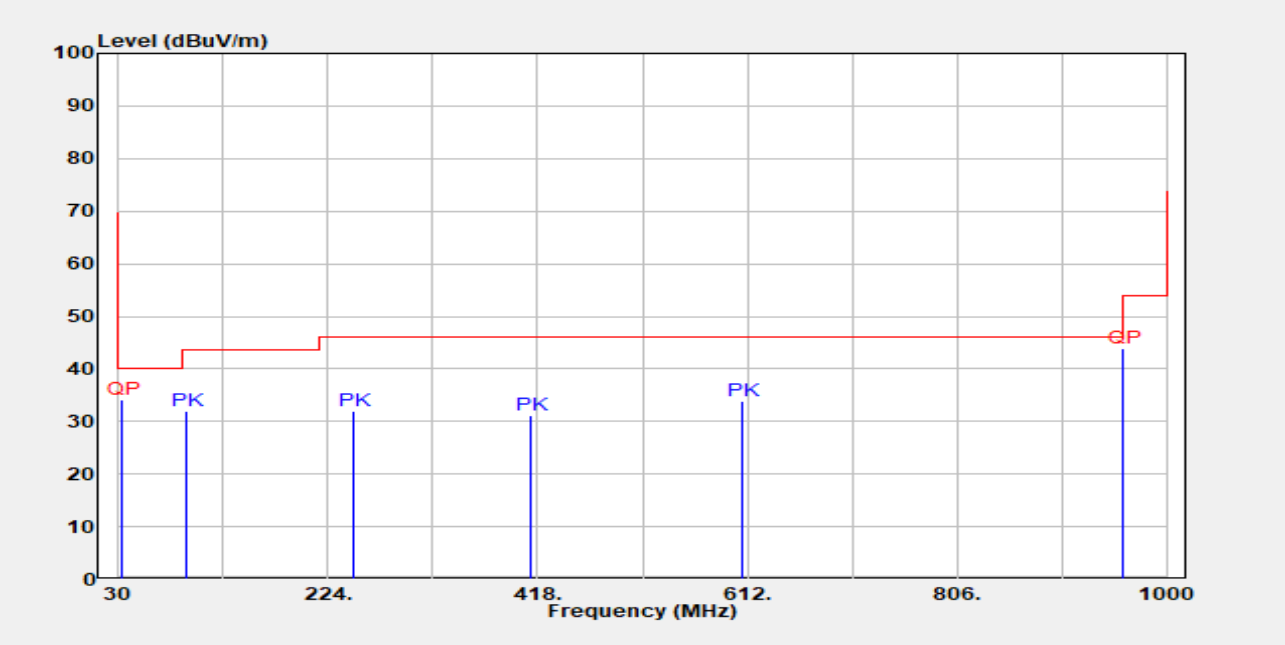
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-18
Test Frequency	:908 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	40.81	-6.63	34.18	40.00	-5.82
93.050	Peak	46.07	-14.17	31.89	43.50	-11.61
248.250	Peak	41.74	-9.67	32.07	46.00	-13.93
411.210	Peak	36.55	-5.51	31.04	46.00	-14.96
607.150	Peak	36.79	-2.90	33.90	46.00	-12.10
960.000	QP	41.66	2.21	43.87	46.00	-2.13

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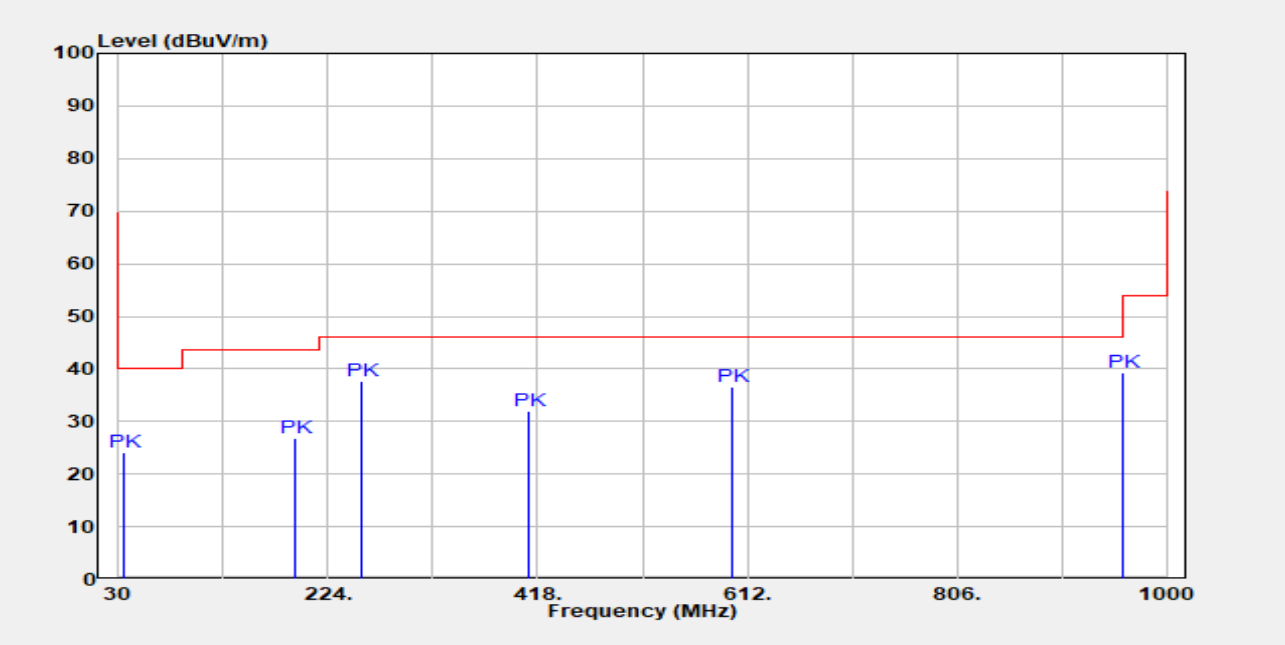
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-18
Test Frequency	:908 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.850	Peak	31.17	-6.96	24.21	40.00	-15.79
193.930	Peak	40.36	-13.45	26.91	43.50	-16.59
255.040	Peak	46.56	-8.75	37.80	46.00	-8.20
410.240	Peak	37.48	-5.57	31.92	46.00	-14.08
597.450	Peak	39.58	-2.95	36.64	46.00	-9.36
960.000	Peak	36.95	2.21	39.16	46.00	-6.84

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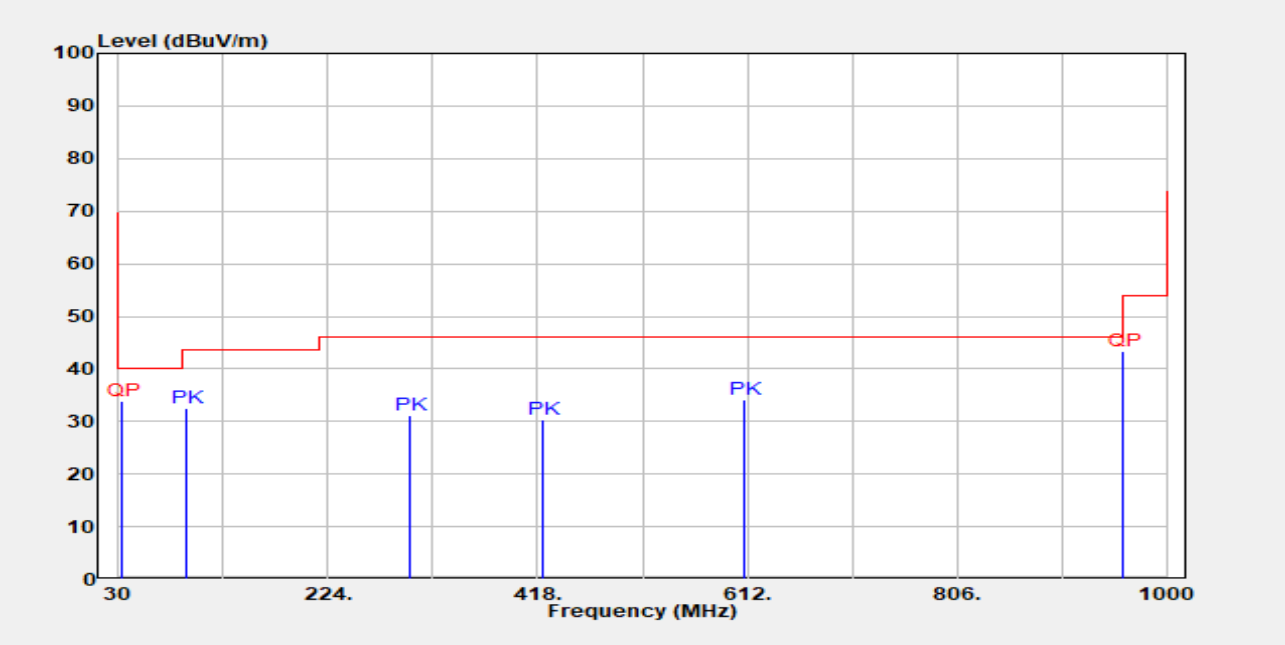
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-18
Test Frequency	:916 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	40.45	-6.63	33.82	40.00	-6.18
93.050	Peak	46.78	-14.17	32.61	43.50	-10.89
299.660	Peak	39.38	-8.34	31.05	46.00	-14.95
421.880	Peak	35.78	-5.32	30.47	46.00	-15.53
609.090	Peak	37.03	-2.89	34.14	46.00	-11.86
960.000	QP	41.26	2.21	43.47	46.00	-2.53

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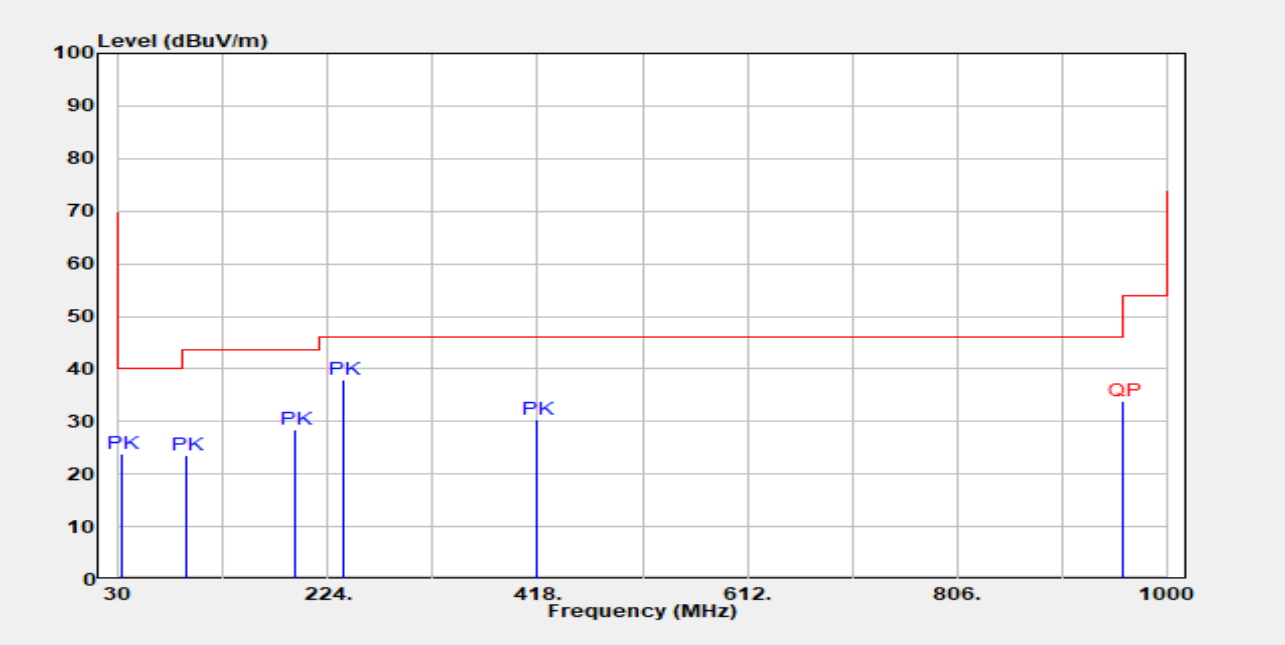
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-18
Test Frequency	:916 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	30.47	-6.49	23.98	40.00	-16.02
93.050	Peak	37.74	-14.17	23.56	43.50	-19.94
193.930	Peak	41.95	-13.45	28.50	43.50	-15.00
238.550	Peak	48.89	-10.87	38.01	46.00	-7.99
417.030	Peak	35.68	-5.30	30.37	46.00	-15.63
960.000	QP	31.53	2.21	33.74	46.00	-12.26

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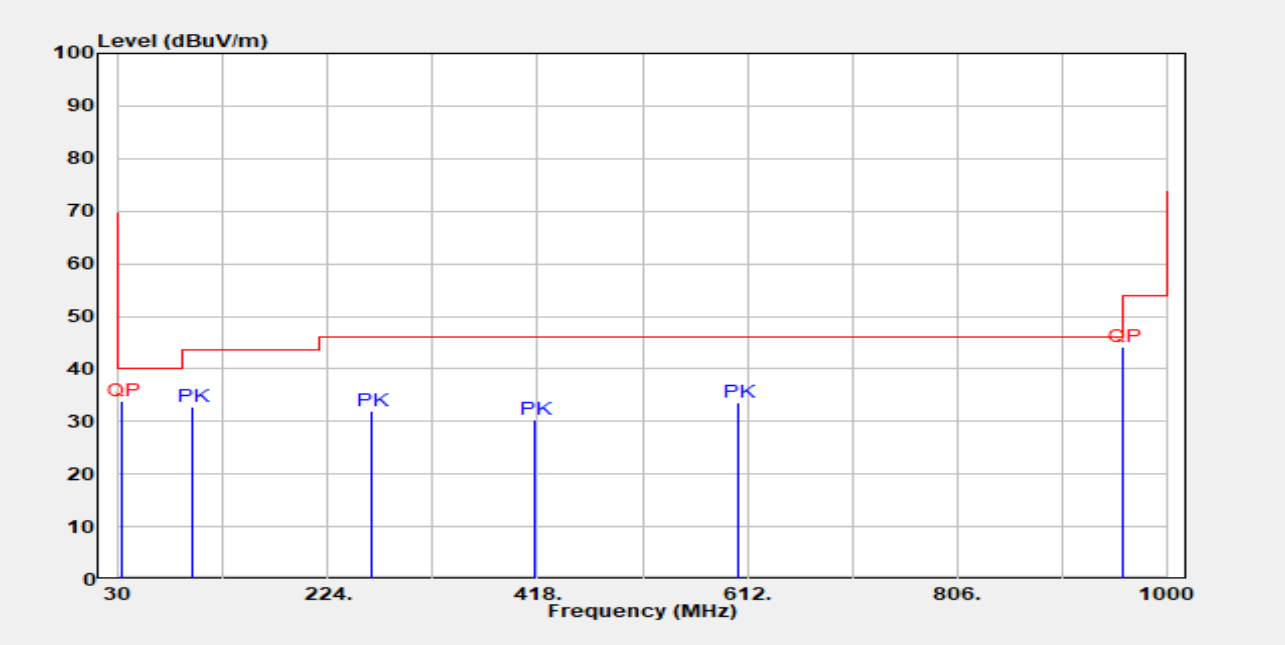
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-18
Test Frequency	:924 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	QP	40.61	-6.63	33.98	40.00	-6.02
97.900	Peak	46.15	-13.34	32.81	43.50	-10.69
264.740	Peak	40.31	-8.37	31.94	46.00	-14.06
415.090	Peak	35.72	-5.30	30.42	46.00	-15.58
603.270	Peak	36.50	-2.92	33.58	46.00	-12.42
960.000	QP	42.05	2.21	44.26	46.00	-1.74

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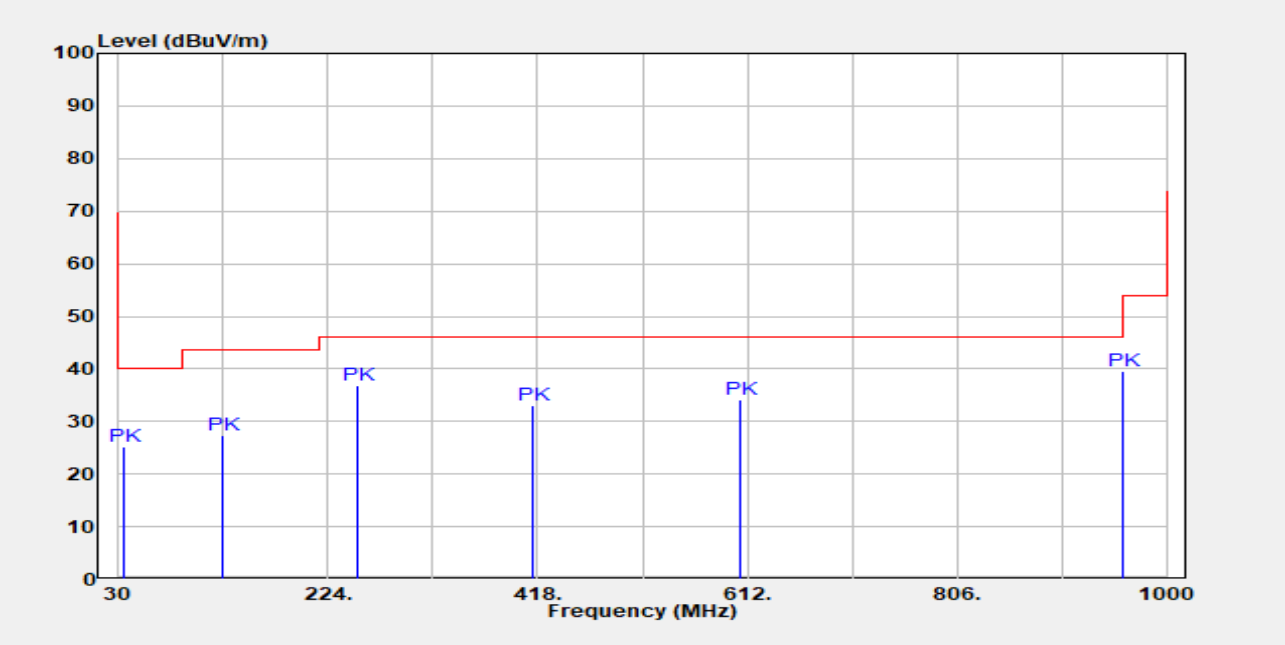
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-18
Test Frequency	:924 MHz	Temp./Humi.	:22.8℃/68%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.850	Peak	32.22	-6.96	25.26	40.00	-14.74
127.000	Peak	38.67	-11.22	27.45	43.50	-16.05
251.160	Peak	46.15	-9.26	36.89	46.00	-9.11
414.120	Peak	38.33	-5.35	32.99	46.00	-13.01
606.180	Peak	37.06	-2.90	34.16	46.00	-11.84
960.000	Peak	37.24	2.21	39.45	46.00	-6.55

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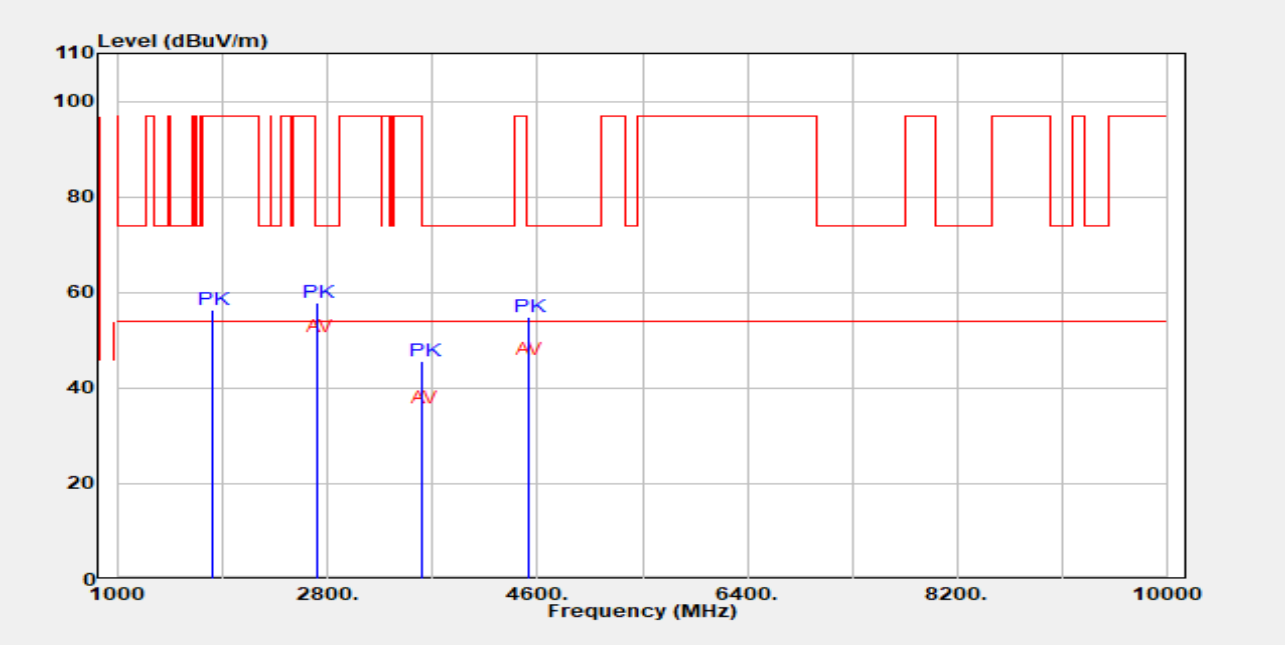
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-19
Test Frequency	:903.5 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1807.000	Peak	60.95	-4.61	56.34	97.03	-40.69
2710.500	Average	51.70	-1.01	50.69	54.00	-3.31
2710.500	Peak	58.72	-1.01	57.71	74.00	-16.29
3614.000	Average	34.62	1.03	35.65	54.00	-18.35
3614.000	Peak	44.58	1.03	45.61	74.00	-28.39
4517.500	Average	43.23	2.53	45.76	54.00	-8.24
4517.500	Peak	52.18	2.53	54.71	74.00	-19.29

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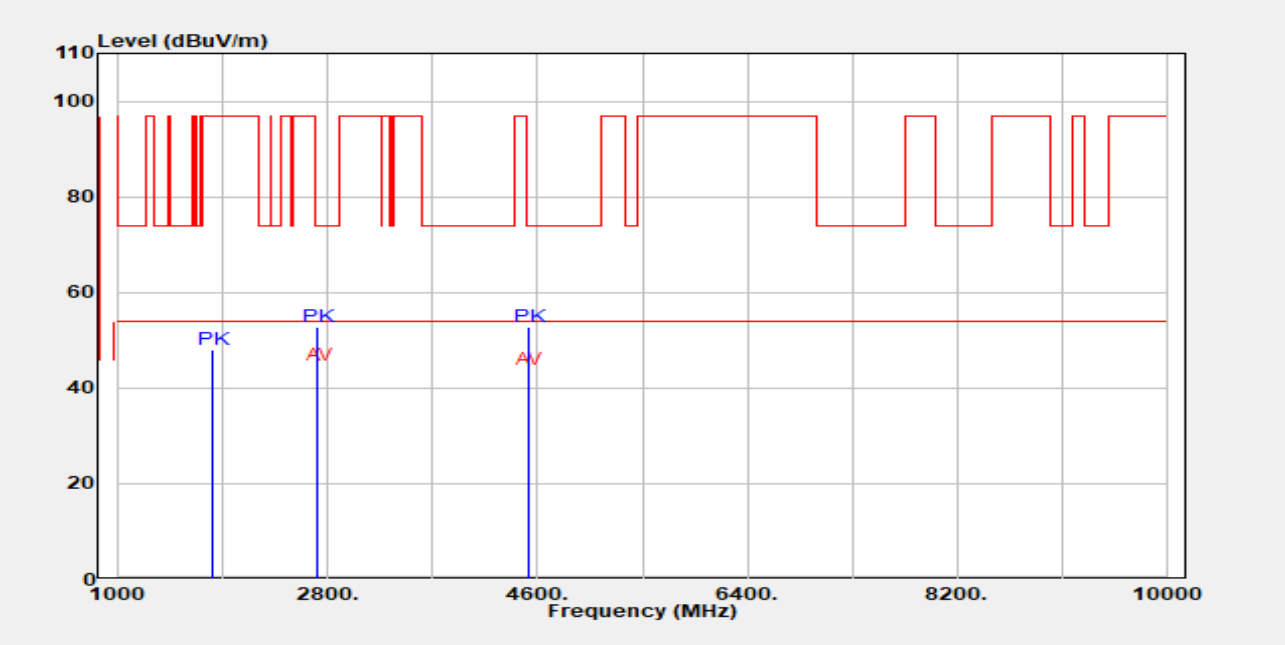
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-19
Test Frequency	:903.5 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1807.000	Peak	52.69	-4.61	48.08	97.03	-48.95
2710.500	Average	45.63	-1.01	44.62	54.00	-9.38
2710.500	Peak	53.85	-1.01	52.84	74.00	-21.16
4517.500	Average	41.26	2.53	43.79	54.00	-10.21
4517.500	Peak	50.27	2.53	52.80	74.00	-21.20

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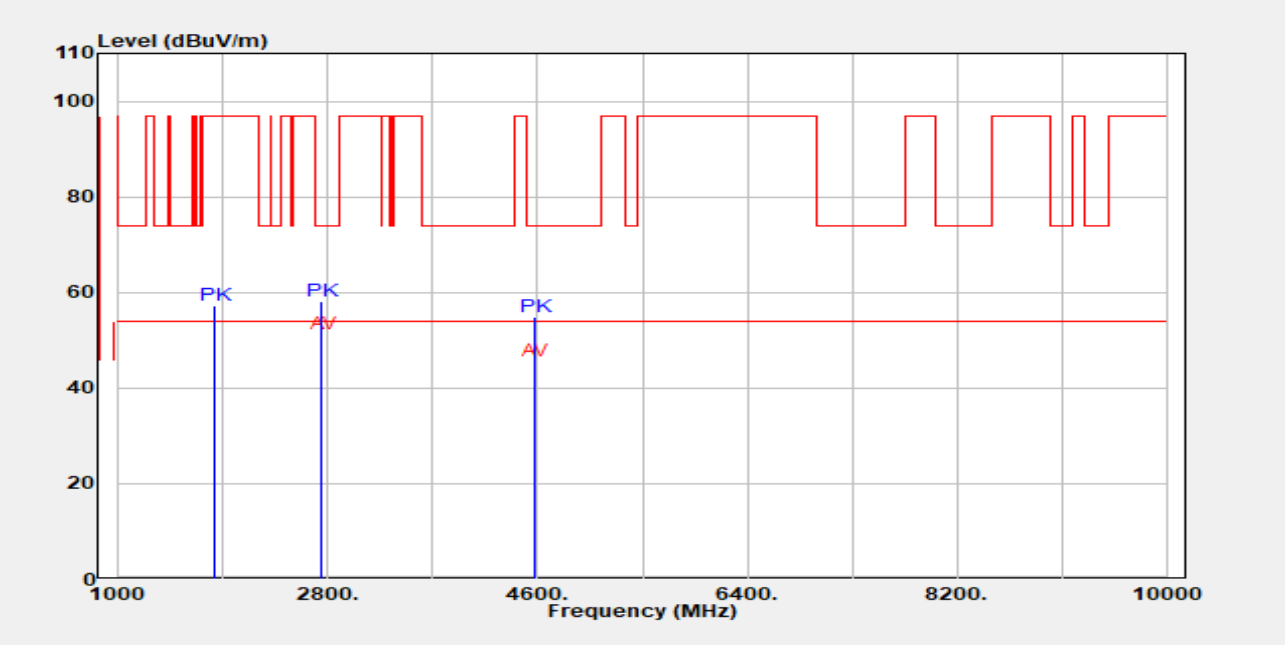
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-19
Test Frequency	:914.5 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	61.47	-4.28	57.19	97.03	-39.84
2743.500	Average	52.23	-0.99	51.24	54.00	-2.76
2743.500	Peak	59.19	-0.99	58.20	74.00	-15.80
4572.500	Average	42.81	2.74	45.55	54.00	-8.45
4572.500	Peak	51.97	2.74	54.71	74.00	-19.29

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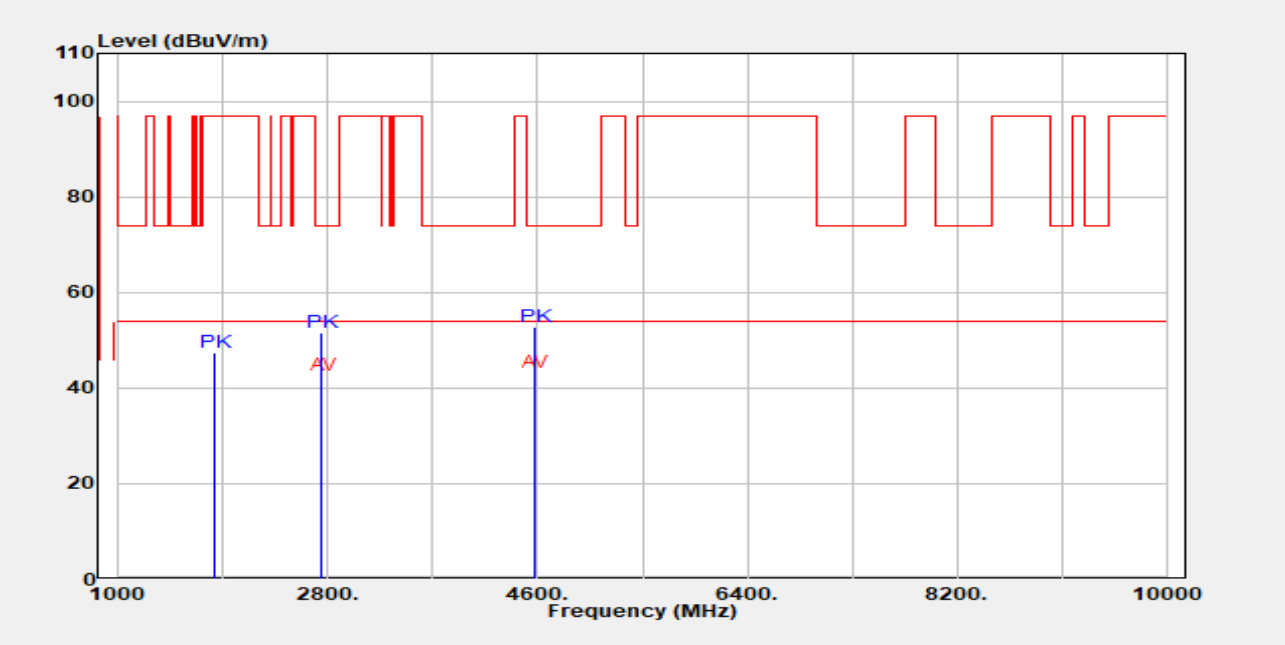
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-19
Test Frequency	:914.5 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	51.78	-4.28	47.50	97.03	-49.53
2743.500	Average	43.50	-0.99	42.51	54.00	-11.49
2743.500	Peak	52.57	-0.99	51.58	74.00	-22.42
4572.500	Average	40.51	2.74	43.25	54.00	-10.75
4572.500	Peak	50.17	2.74	52.91	74.00	-21.09

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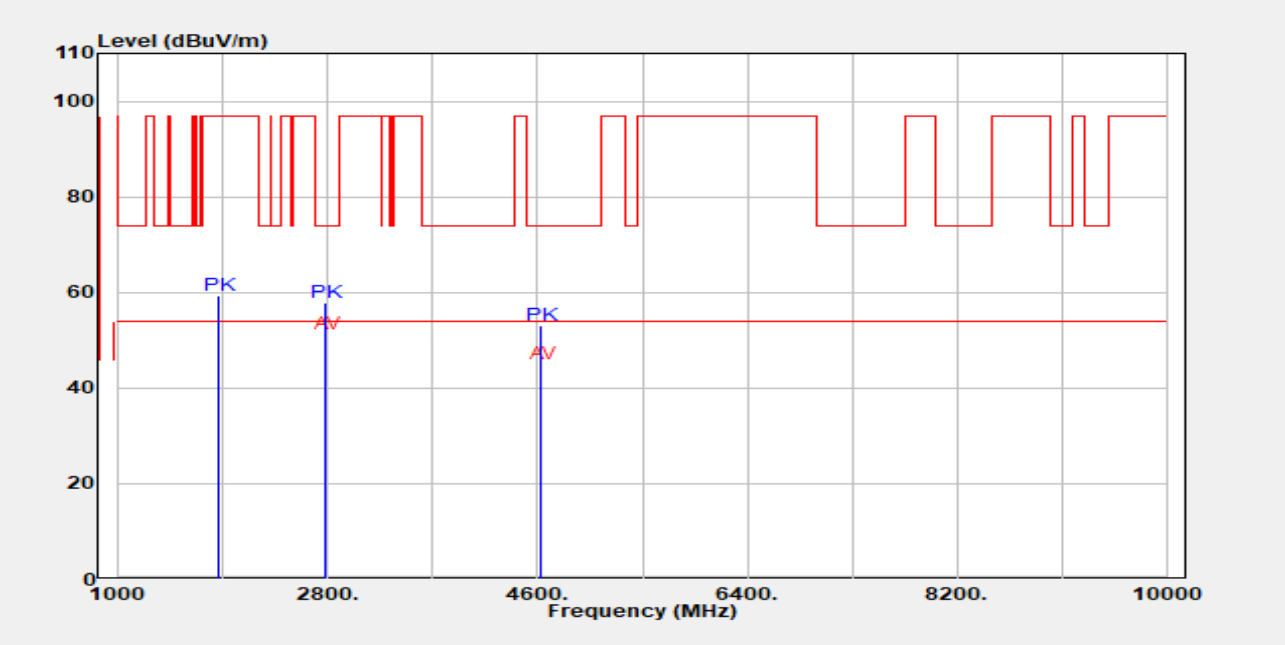
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-19
Test Frequency	:926.5 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1853.000	Peak	63.36	-3.98	59.38	97.03	-37.65
2779.500	Average	51.93	-0.59	51.34	54.00	-2.66
2779.500	Peak	58.30	-0.59	57.71	74.00	-16.29
4632.500	Average	41.95	3.12	45.07	54.00	-8.93
4632.500	Peak	49.80	3.12	52.92	74.00	-21.08

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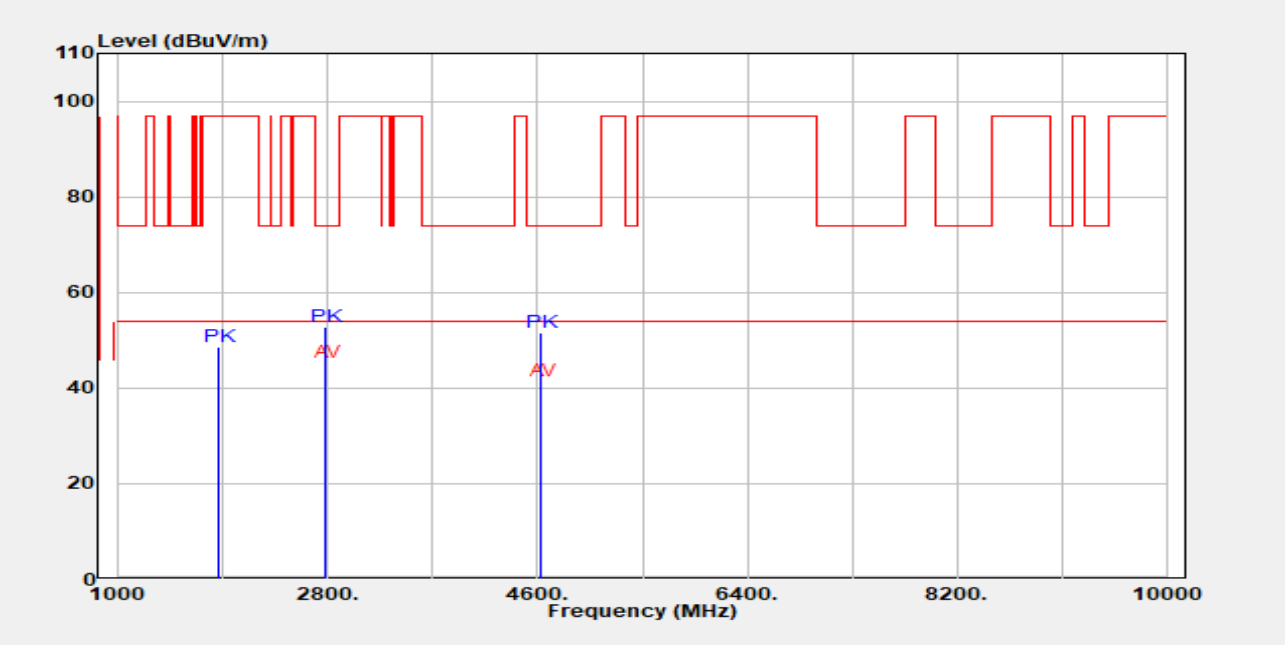
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 1M	Test Date	:2025-06-19
Test Frequency	:926.5 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1853.000	Peak	52.61	-3.98	48.63	97.03	-48.40
2779.500	Average	46.00	-0.59	45.41	54.00	-8.59
2779.500	Peak	53.41	-0.59	52.82	74.00	-21.18
4632.500	Average	38.44	3.12	41.56	54.00	-12.44
4632.500	Peak	48.49	3.12	51.61	74.00	-22.39

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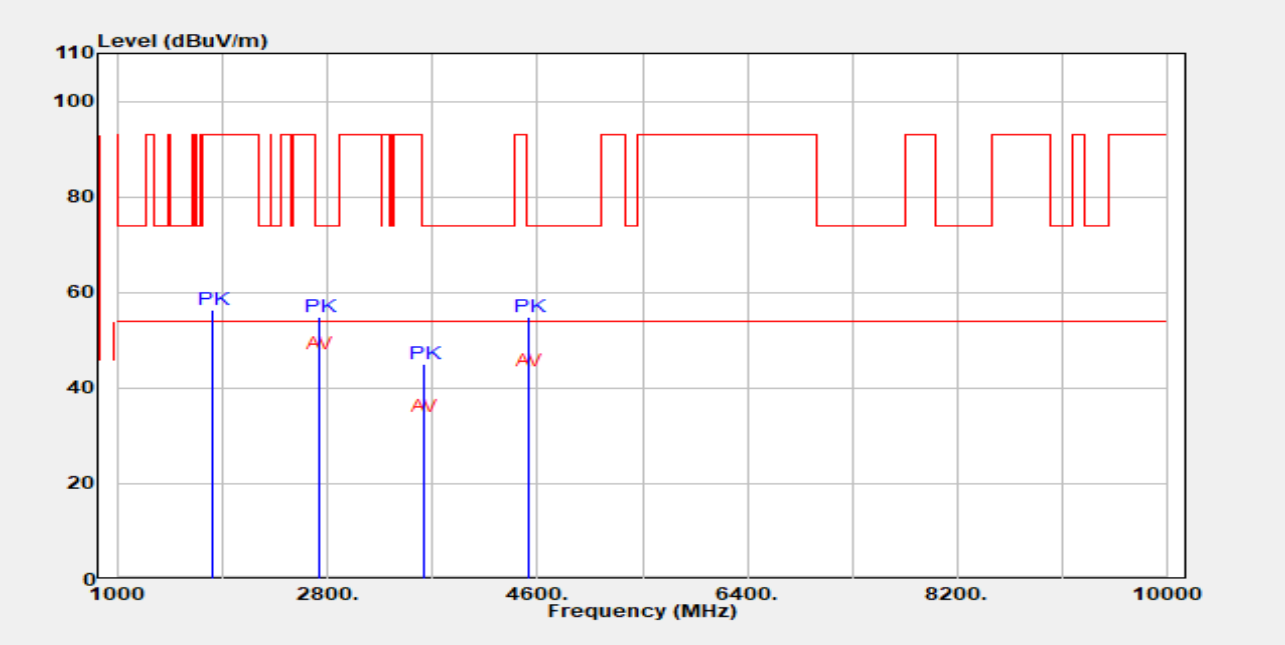
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-19
Test Frequency	:905 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1810.000	Peak	60.86	-4.59	56.27	92.89	-36.62
2715.000	Average	48.08	-1.00	47.08	54.00	-6.92
2715.000	Peak	55.97	-1.00	54.97	74.00	-19.03
3620.000	Average	32.87	1.08	33.95	54.00	-20.05
3620.000	Peak	43.80	1.08	44.88	74.00	-29.12
4525.000	Average	40.90	2.57	43.47	54.00	-10.53
4525.000	Peak	52.25	2.57	54.82	74.00	-19.18

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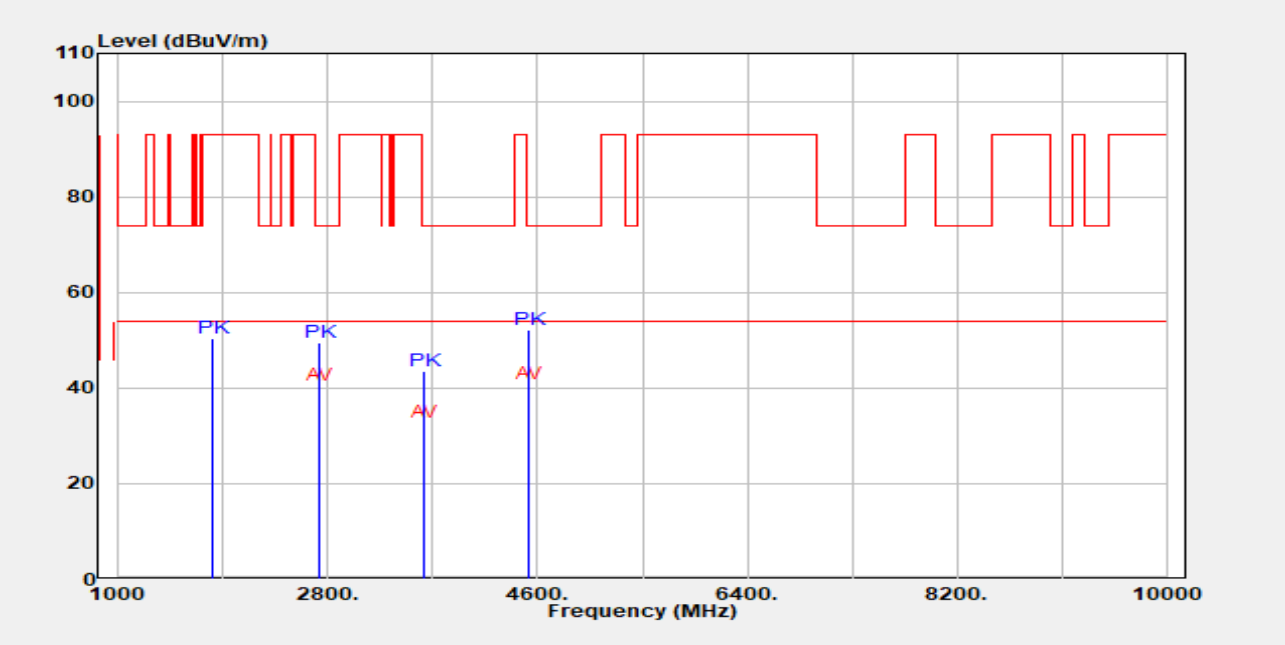
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-19
Test Frequency	:905 MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1810.000	Peak	55.07	-4.59	50.48	92.89	-42.41
2715.000	Average	41.62	-1.00	40.62	54.00	-13.38
2715.000	Peak	50.55	-1.00	49.55	74.00	-24.45
3620.000	Average	31.81	1.08	32.89	54.00	-21.11
3620.000	Peak	42.57	1.08	43.65	74.00	-30.35
4525.000	Average	38.26	2.57	40.83	54.00	-13.17
4525.000	Peak	49.50	2.57	52.07	74.00	-21.93

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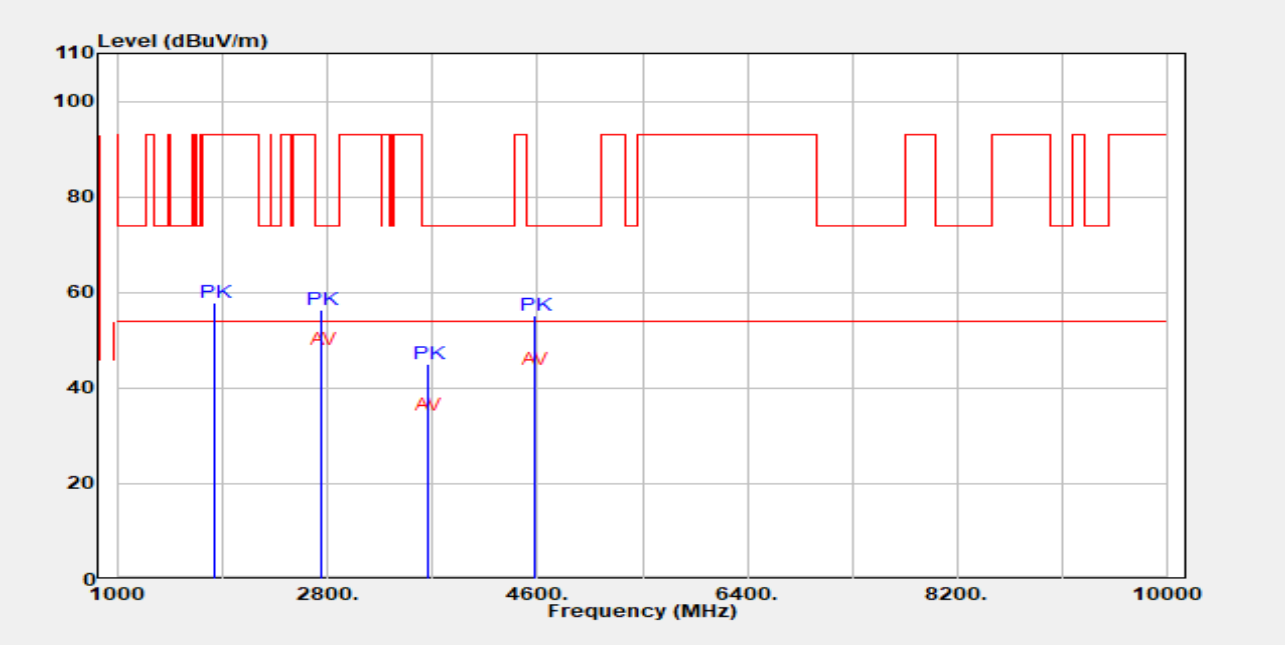
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-19
Test Frequency	:915MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	62.15	-4.26	57.89	92.89	-35.00
2745.000	Average	49.10	-0.97	48.13	54.00	-5.87
2745.000	Peak	57.35	-0.97	56.38	74.00	-17.62
3660.000	Average	33.02	1.37	34.39	54.00	-19.61
3660.000	Peak	43.51	1.37	44.88	74.00	-29.12
4575.000	Average	41.20	2.75	43.95	54.00	-10.05
4575.000	Peak	52.54	2.75	55.29	74.00	-18.71

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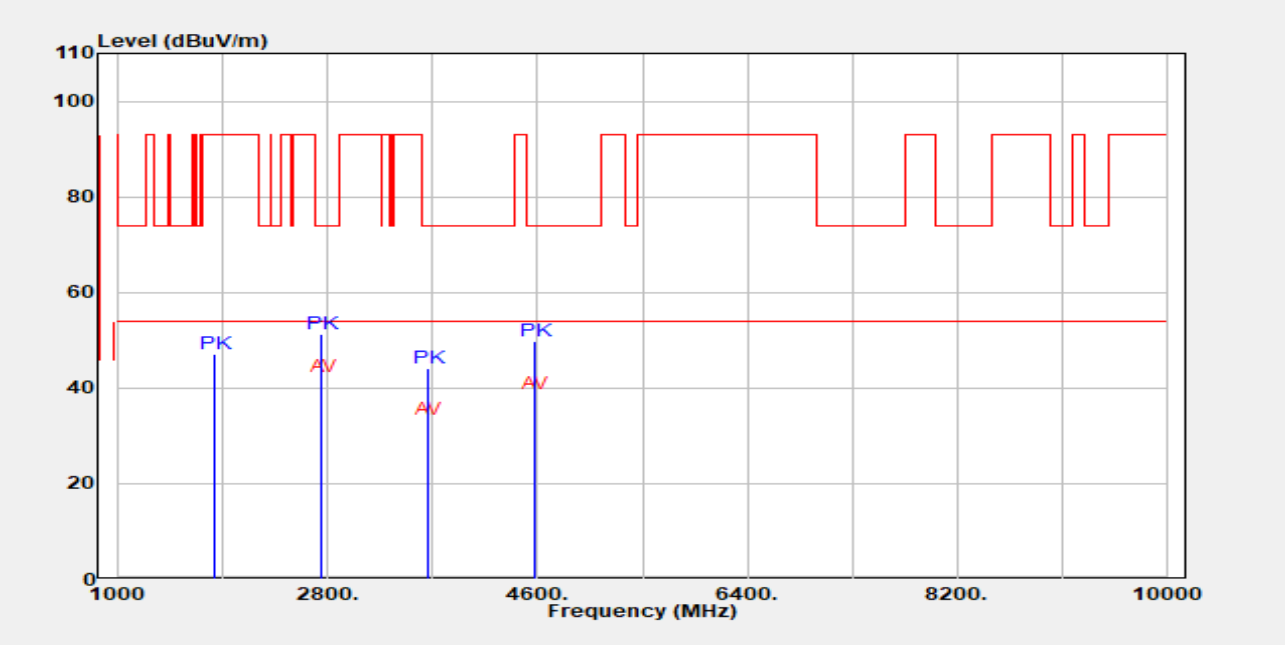
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-19
Test Frequency	:915MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	51.28	-4.26	47.02	92.89	-45.87
2745.000	Average	43.44	-0.97	42.47	54.00	-11.53
2745.000	Peak	52.21	-0.97	51.24	74.00	-22.76
3660.000	Average	32.13	1.37	33.50	54.00	-20.50
3660.000	Peak	42.72	1.37	44.09	74.00	-29.91
4575.000	Average	35.88	2.75	38.63	54.00	-15.37
4575.000	Peak	47.01	2.75	49.76	74.00	-24.24

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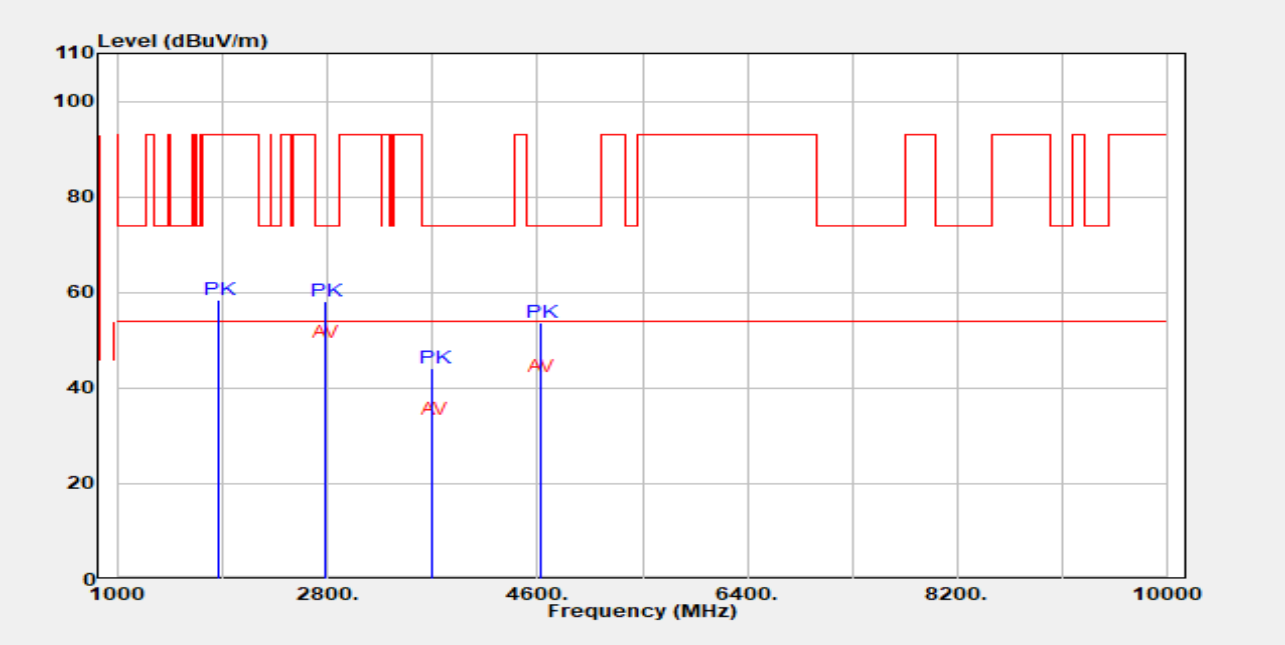
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-19
Test Frequency	:925MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1850.000	Peak	62.35	-4.03	58.32	92.89	-34.57
2775.000	Average	50.05	-0.65	49.40	54.00	-4.60
2775.000	Peak	58.66	-0.65	58.01	74.00	-15.99
3700.000	Average	31.86	1.54	33.40	54.00	-20.60
3700.000	Peak	42.68	1.54	44.22	74.00	-29.78
4625.000	Average	39.20	3.04	42.24	54.00	-11.76
4625.000	Peak	50.70	3.04	53.74	74.00	-20.26

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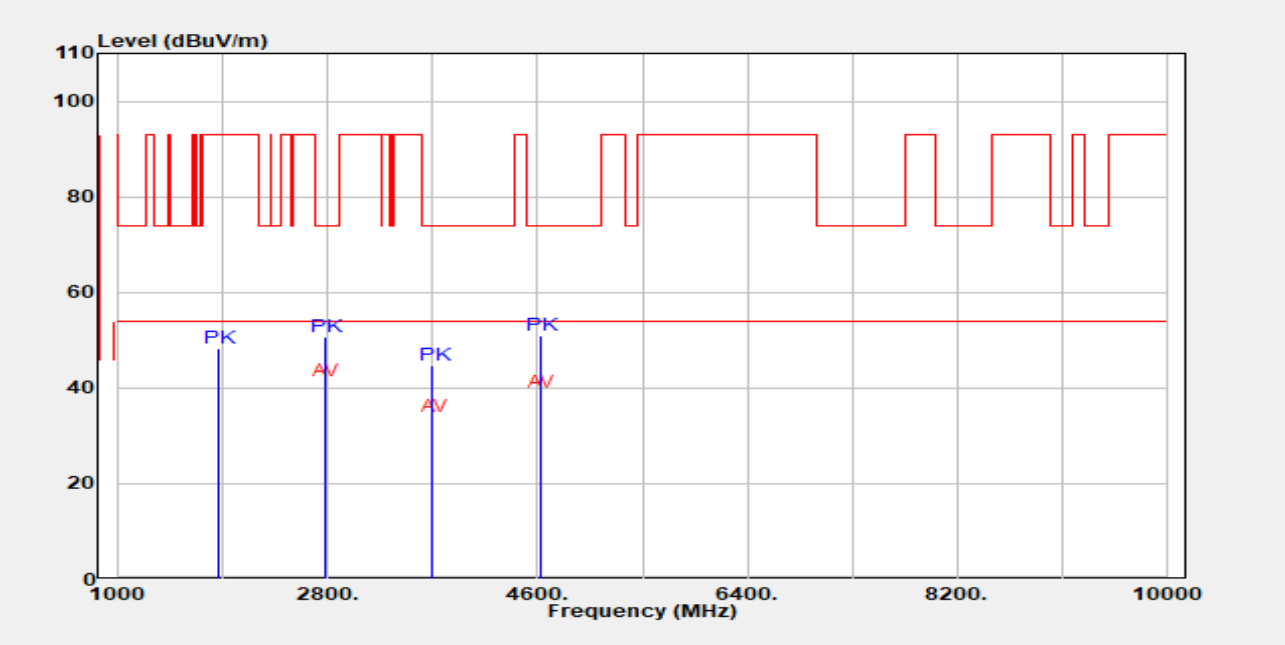
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 2M	Test Date	:2025-06-19
Test Frequency	:925MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1850.000	Peak	52.23	-4.03	48.20	92.89	-44.69
2775.000	Average	42.10	-0.65	41.45	54.00	-12.55
2775.000	Peak	51.42	-0.65	50.77	74.00	-23.23
3700.000	Average	32.35	1.54	33.89	54.00	-20.11
3700.000	Peak	43.30	1.54	44.84	74.00	-29.16
4625.000	Average	35.98	3.04	39.02	54.00	-14.98
4625.000	Peak	47.81	3.04	50.85	74.00	-23.15

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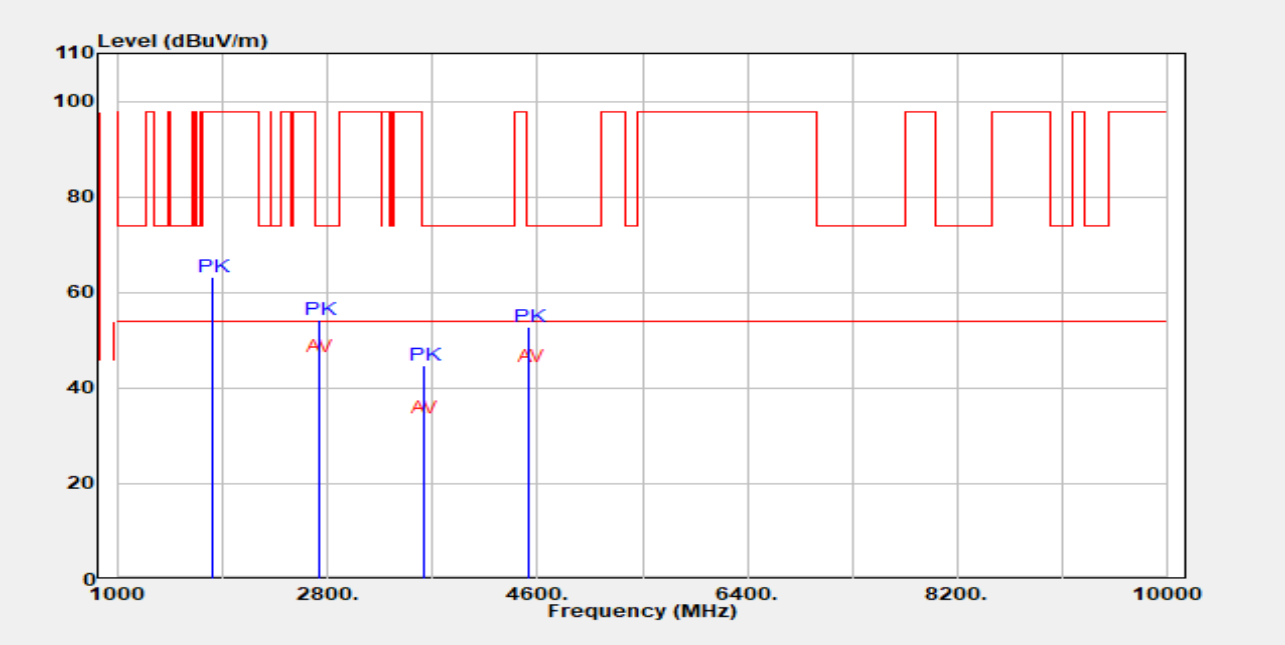
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-19
Test Frequency	:906MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	67.63	-4.56	63.07	97.83	-34.76
2718.000	Average	47.40	-0.99	46.41	54.00	-7.59
2718.000	Peak	55.24	-0.99	54.25	74.00	-19.75
3624.000	Average	32.66	1.11	33.77	54.00	-20.23
3624.000	Peak	43.68	1.11	44.79	74.00	-29.21
4530.000	Average	41.76	2.59	44.35	54.00	-9.65
4530.000	Peak	50.23	2.59	52.82	74.00	-21.18

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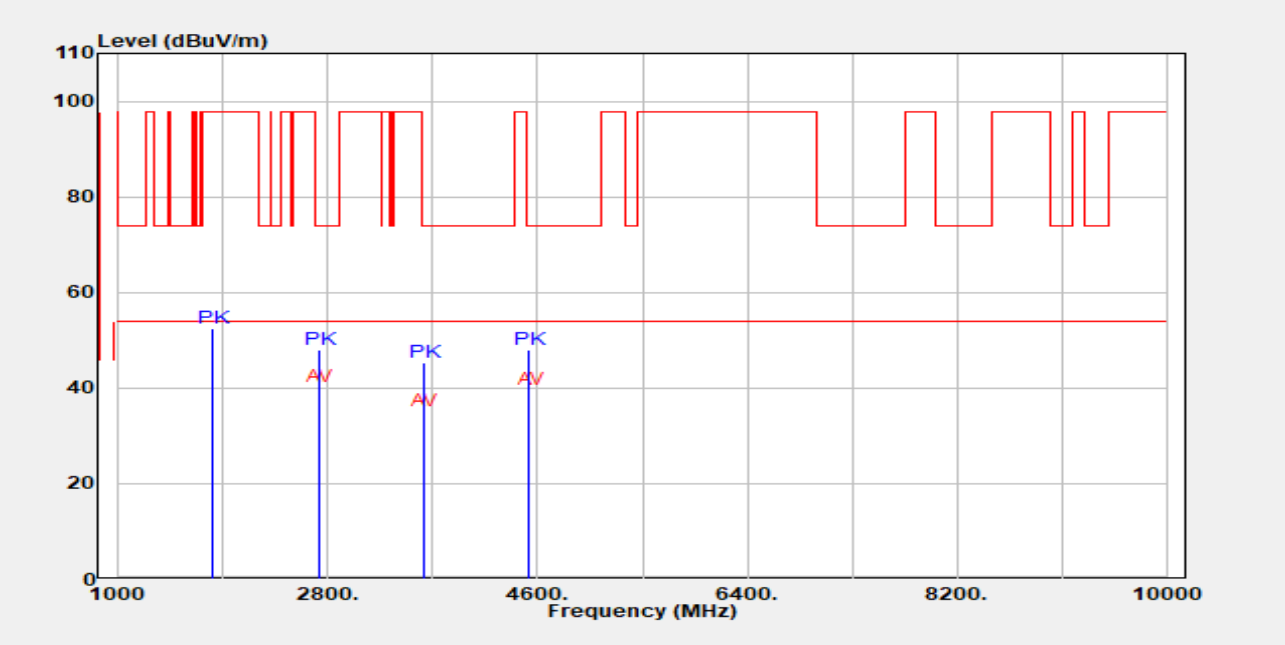
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-19
Test Frequency	:906MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	56.97	-4.56	52.41	97.83	-45.42
2718.000	Average	41.17	-0.99	40.18	54.00	-13.82
2718.000	Peak	49.13	-0.99	48.14	74.00	-25.86
3624.000	Average	34.08	1.11	35.19	54.00	-18.81
3624.000	Peak	44.26	1.11	45.37	74.00	-28.63
4530.000	Average	37.11	2.59	39.70	54.00	-14.30
4530.000	Peak	45.51	2.59	48.10	74.00	-25.90

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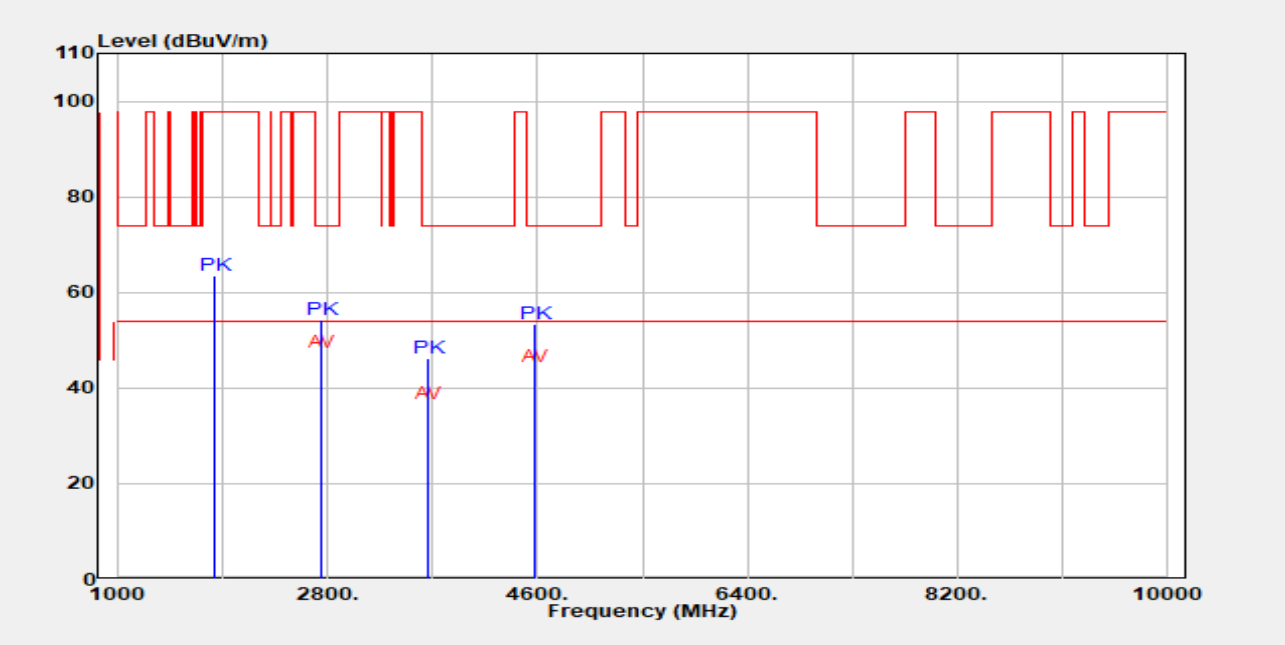
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-19
Test Frequency	:914MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	67.79	-4.30	63.49	97.83	-34.34
2742.000	Average	48.44	-1.01	47.43	54.00	-6.57
2742.000	Peak	55.38	-1.01	54.37	74.00	-19.63
3656.000	Average	35.29	1.35	36.64	54.00	-17.36
3656.000	Peak	45.00	1.35	46.35	74.00	-27.65
4570.000	Average	41.70	2.74	44.44	54.00	-9.56
4570.000	Peak	50.51	2.74	53.25	74.00	-20.75

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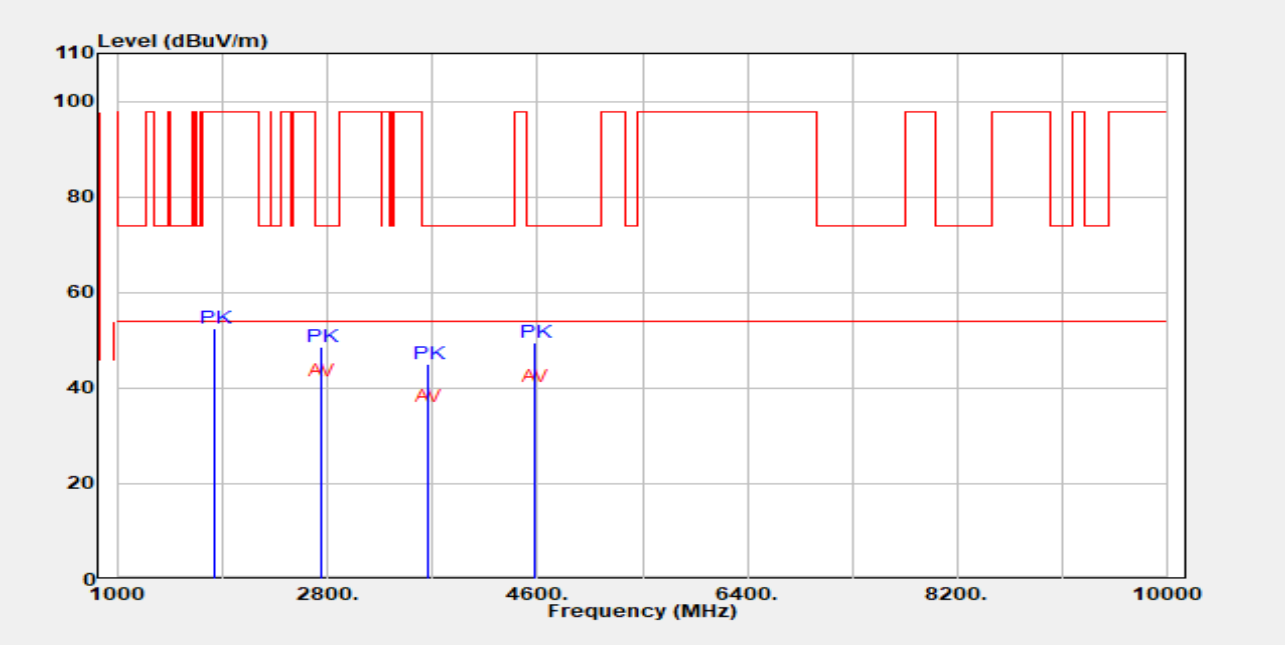
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-19
Test Frequency	:914MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	56.72	-4.30	52.42	97.83	-45.41
2742.000	Average	42.35	-1.01	41.34	54.00	-12.66
2742.000	Peak	49.63	-1.01	48.62	74.00	-25.38
3656.000	Average	34.80	1.35	36.15	54.00	-17.85
3656.000	Peak	43.53	1.35	44.88	74.00	-29.12
4570.000	Average	37.59	2.74	40.33	54.00	-13.67
4570.000	Peak	46.86	2.74	49.60	74.00	-24.40

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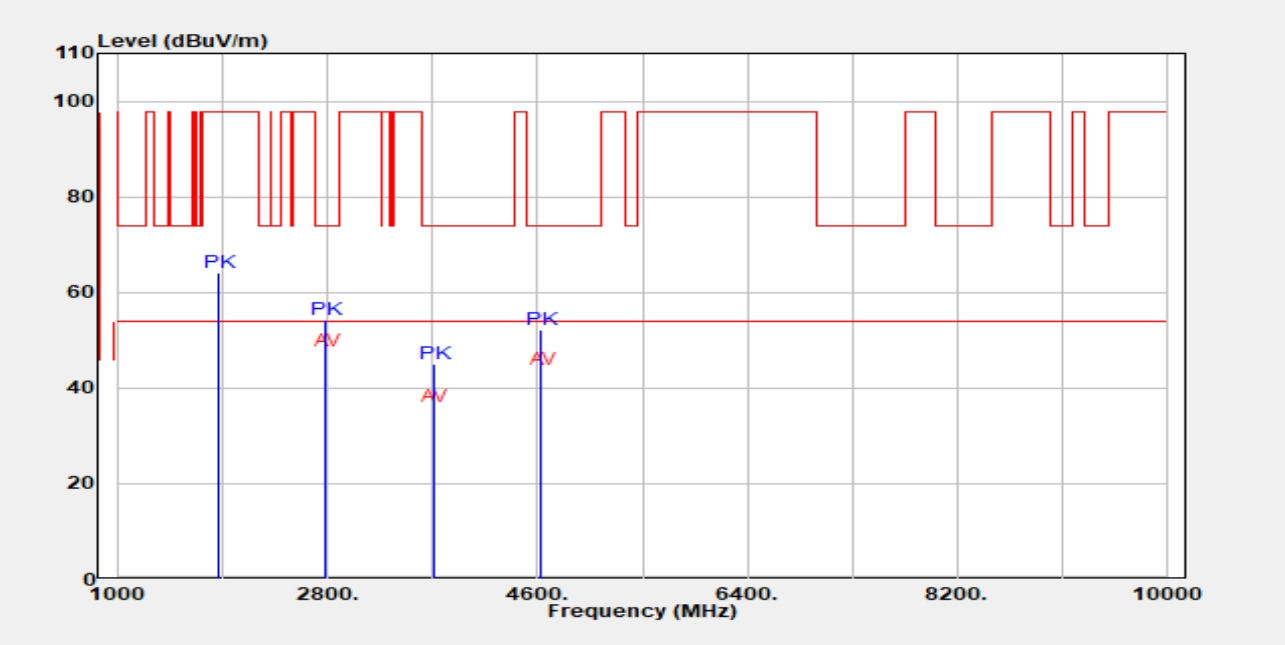
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-19
Test Frequency	:926MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	68.16	-4.00	64.16	97.83	-33.67
2778.000	Average	48.33	-0.61	47.72	54.00	-6.28
2778.000	Peak	54.91	-0.61	54.30	74.00	-19.70
3704.000	Average	34.58	1.56	36.14	54.00	-17.86
3704.000	Peak	43.57	1.56	45.13	74.00	-28.87
4630.000	Average	40.82	3.09	43.91	54.00	-10.09
4630.000	Peak	49.09	3.09	52.18	74.00	-21.82

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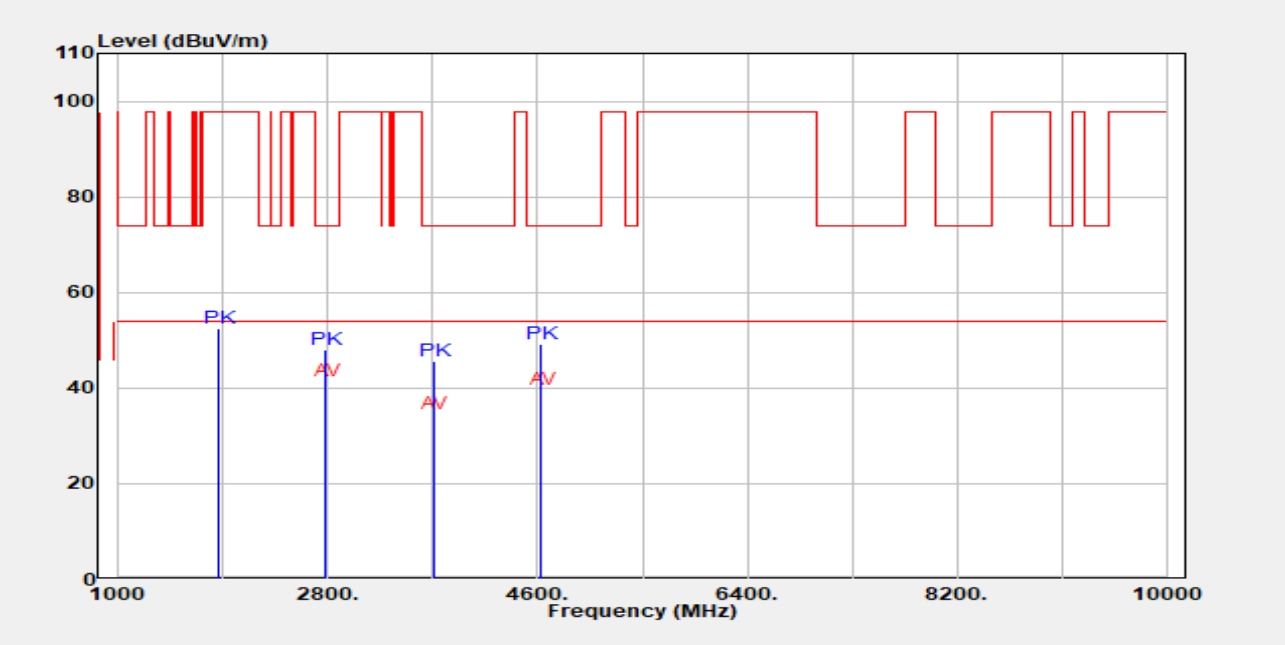
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 4M	Test Date	:2025-06-19
Test Frequency	:926MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	56.50	-4.00	52.50	97.83	-45.33
2778.000	Average	41.91	-0.61	41.30	54.00	-12.70
2778.000	Peak	48.58	-0.61	47.97	74.00	-26.03
3704.000	Average	32.90	1.56	34.46	54.00	-19.54
3704.000	Peak	44.05	1.56	45.61	74.00	-28.39
4630.000	Average	36.58	3.09	39.67	54.00	-14.33
4630.000	Peak	46.08	3.09	49.17	74.00	-24.83

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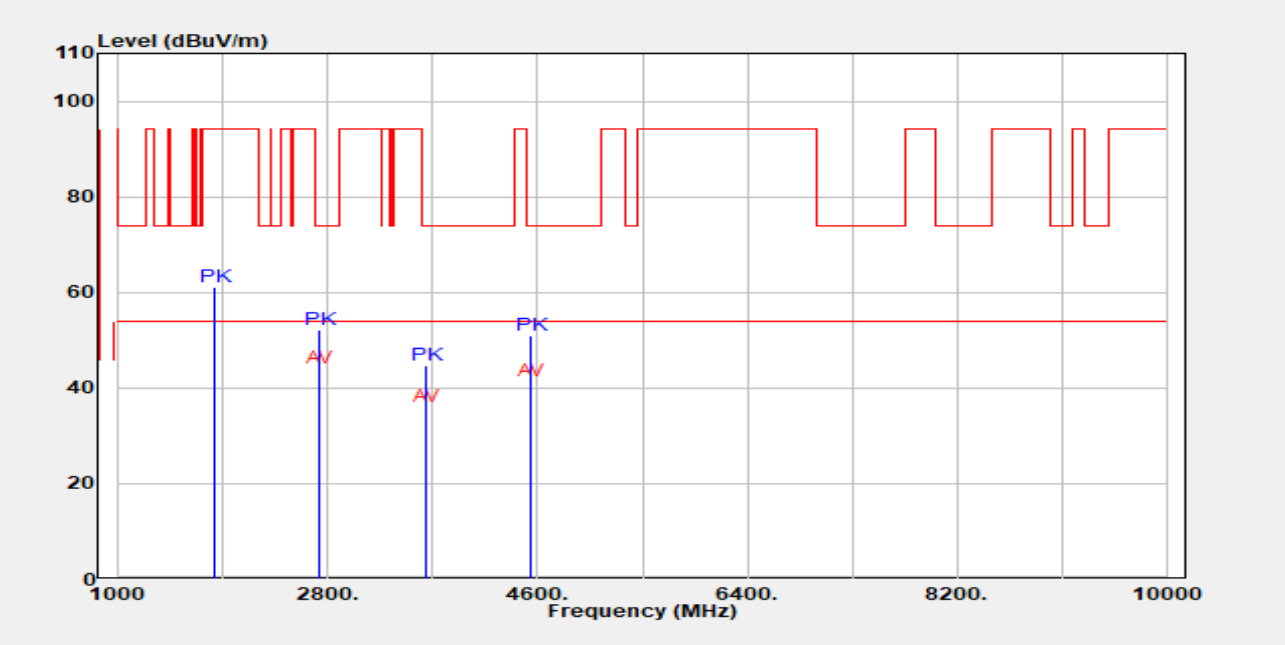
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-19
Test Frequency	:908MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	65.67	-4.49	61.18	94.07	-32.89
2724.000	Average	45.09	-0.98	44.11	54.00	-9.89
2724.000	Peak	53.06	-0.98	52.08	74.00	-21.92
3632.000	Average	34.88	1.18	36.06	54.00	-17.94
3632.000	Peak	43.61	1.18	44.79	74.00	-29.21
4540.000	Average	38.80	2.64	41.44	54.00	-12.56
4540.000	Peak	48.35	2.64	50.99	74.00	-23.01

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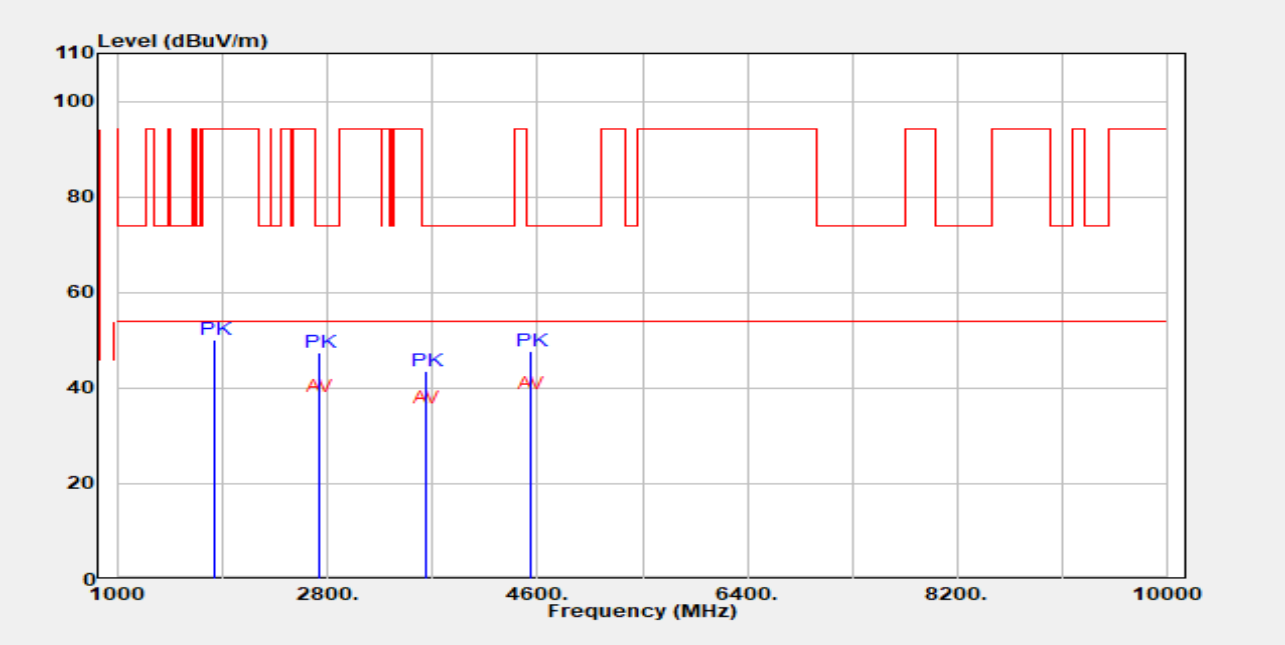
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-19
Test Frequency	:908MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	54.69	-4.49	50.20	94.07	-43.87
2724.000	Average	38.99	-0.98	38.01	54.00	-15.99
2724.000	Peak	48.39	-0.98	47.41	74.00	-26.59
3632.000	Average	34.52	1.18	35.70	54.00	-18.30
3632.000	Peak	42.46	1.18	43.64	74.00	-30.36
4540.000	Average	36.06	2.64	38.70	54.00	-15.30
4540.000	Peak	45.09	2.64	47.73	74.00	-26.27

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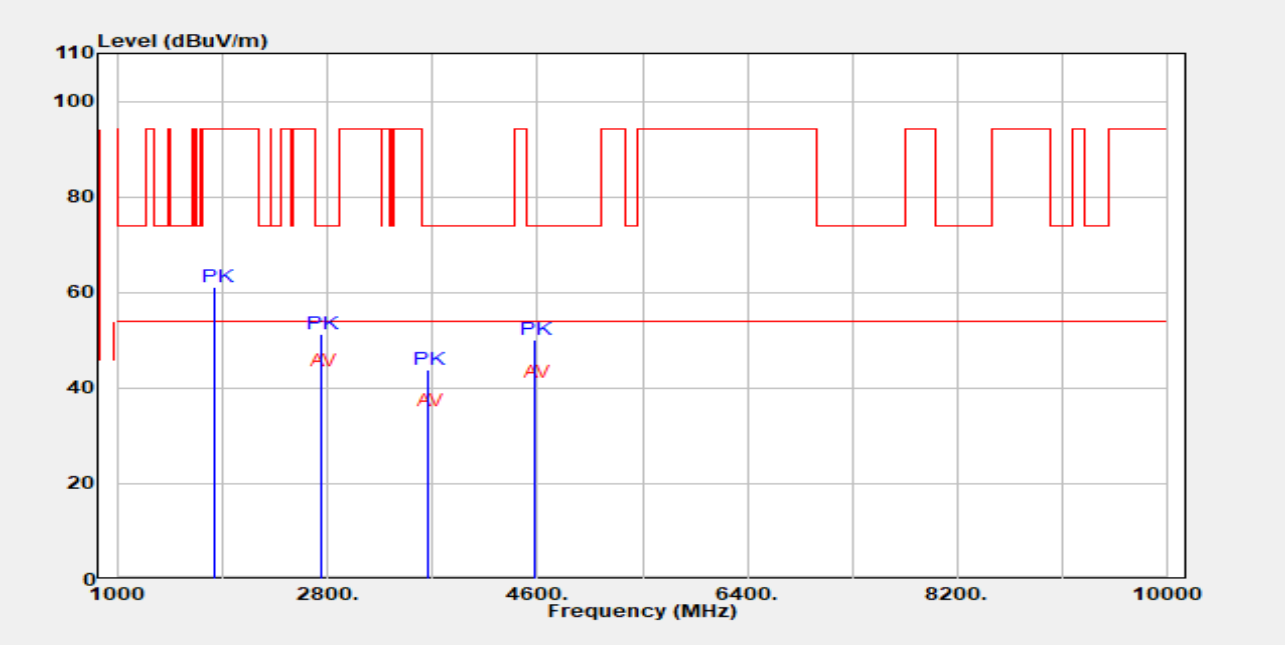
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-19
Test Frequency	:916MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	65.23	-4.23	61.00	94.07	-33.07
2748.000	Average	44.54	-0.94	43.60	54.00	-10.40
2748.000	Peak	52.14	-0.94	51.20	74.00	-22.80
3664.000	Average	33.89	1.39	35.28	54.00	-18.72
3664.000	Peak	42.40	1.39	43.79	74.00	-30.21
4580.000	Average	38.39	2.76	41.15	54.00	-12.85
4580.000	Peak	47.36	2.76	50.12	74.00	-23.88

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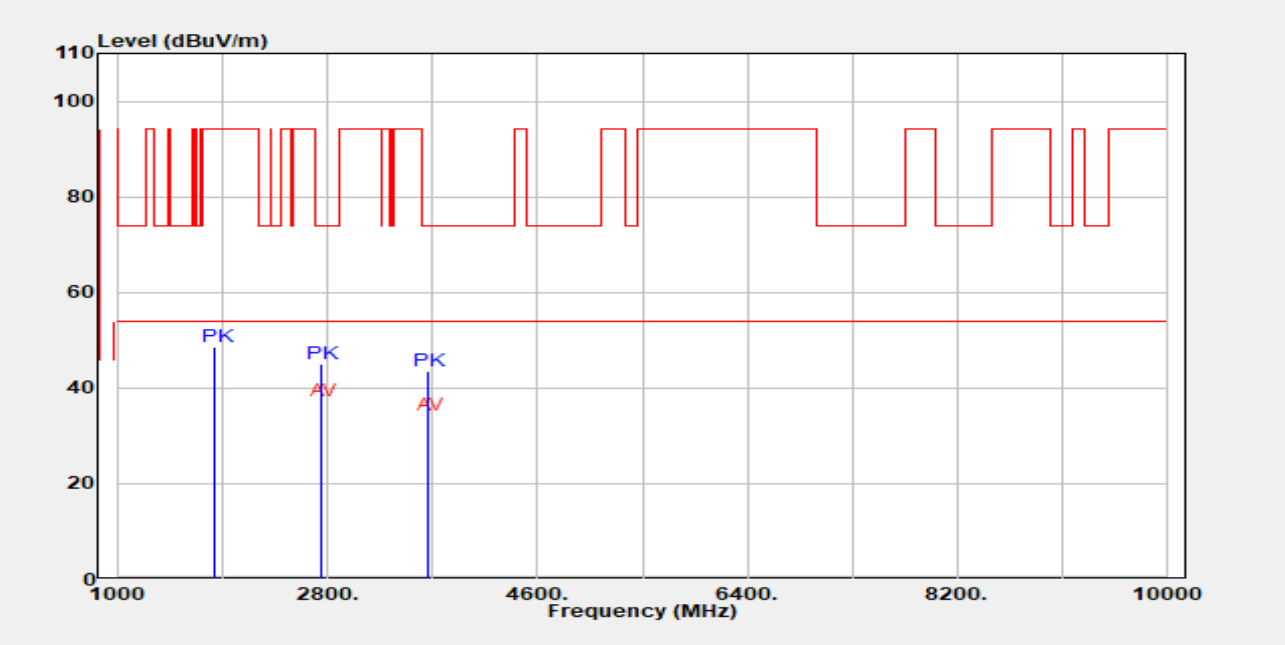
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-19
Test Frequency	:916MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	52.82	-4.23	48.59	94.07	-45.48
2748.000	Average	38.06	-0.94	37.12	54.00	-16.88
2748.000	Peak	45.86	-0.94	44.92	74.00	-29.08
3664.000	Average	33.01	1.39	34.40	54.00	-19.60
3664.000	Peak	42.24	1.39	43.63	74.00	-30.37

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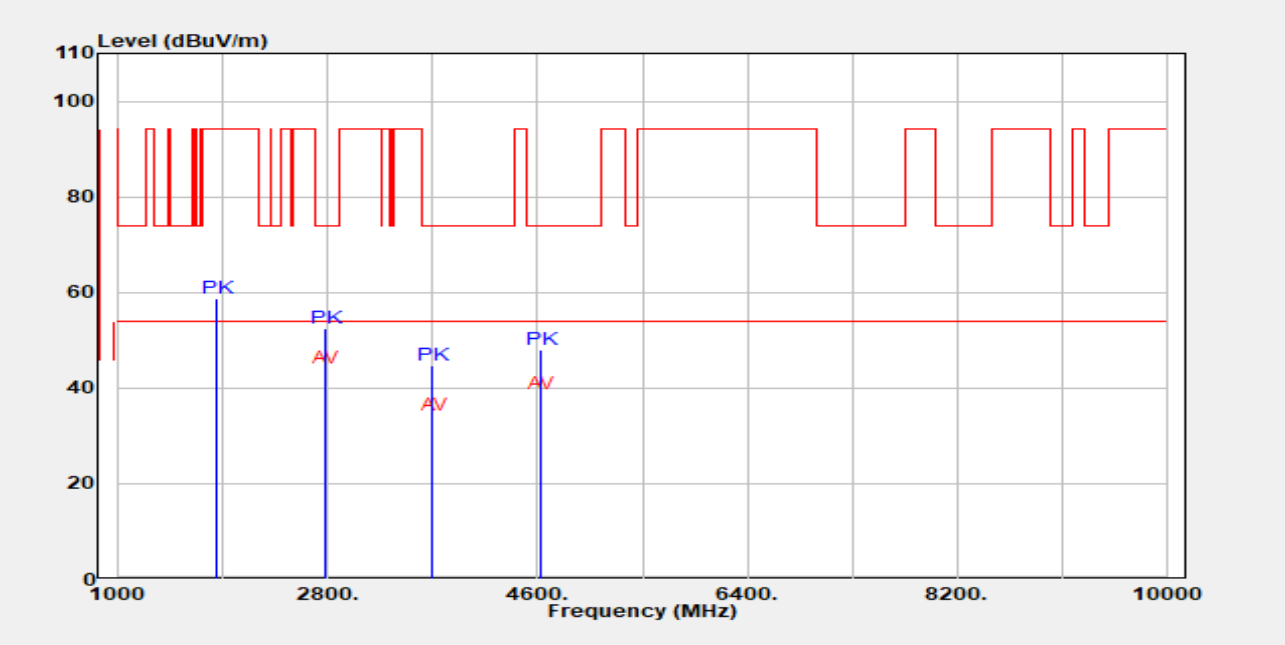
Report Number	:TERF2506001934ER	Test Site	:SAC 1
Operation Mode	:802.11ah 8M	Test Date	:2025-06-19
Test Frequency	:924MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



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	62.89	-4.04	58.85	94.07	-35.22
2772.000	Average	44.90	-0.69	44.21	54.00	-9.79
2772.000	Peak	53.04	-0.69	52.35	74.00	-21.65
3696.000	Average	32.63	1.52	34.15	54.00	-19.85
3696.000	Peak	43.19	1.52	44.71	74.00	-29.29
4620.000	Average	35.76	2.99	38.75	54.00	-15.25
4620.000	Peak	45.04	2.99	48.03	74.00	-25.97

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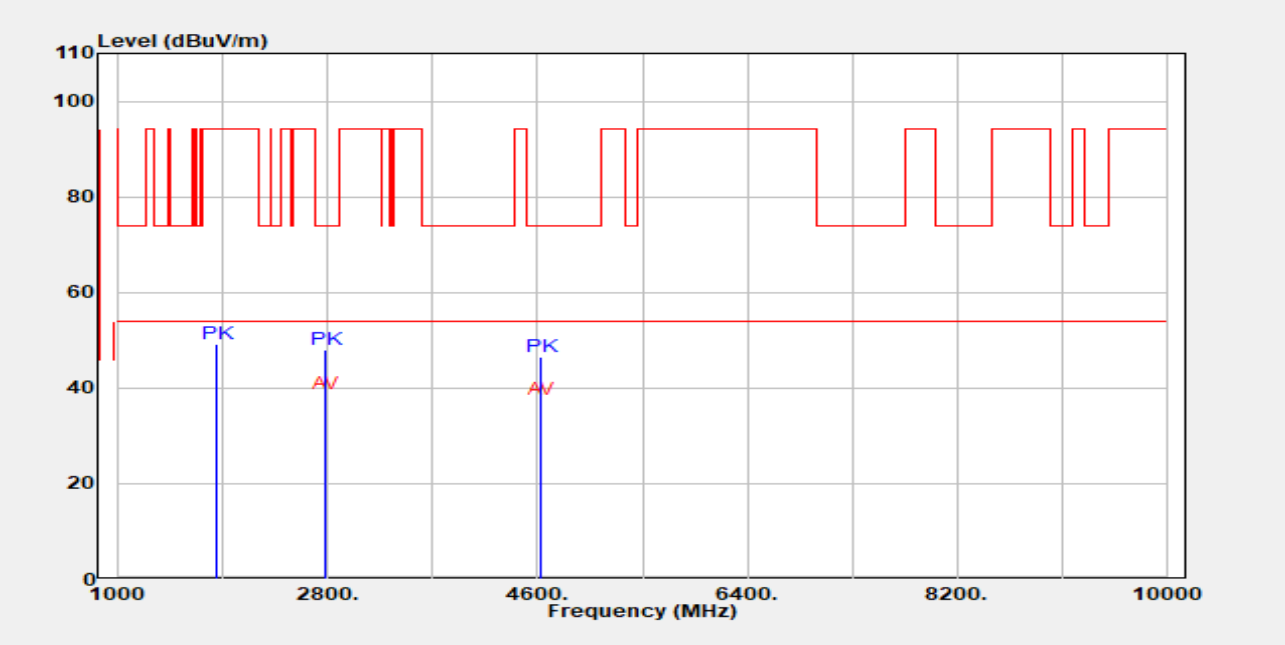
Operation Mode	:802.11ah 8M	Test Date	:2025-06-19
Test Frequency	:924MHz	Temp./Humi.	:22.1℃/67%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



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	53.33	-4.04	49.29	94.07	-44.78
2772.000	Average	39.45	-0.69	38.76	54.00	-15.24
2772.000	Peak	48.82	-0.69	48.13	74.00	-25.87
4620.000	Average	34.56	2.99	37.55	54.00	-16.45
4620.000	Peak	43.59	2.99	46.58	74.00	-27.42

~ End of Report ~

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