

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



FCC Applicant: AzureWave Technologies, Inc.
8F., No. 94, Baozhong Rd., Xindian Dist., New Taipei City,
Taiwan 23144

FCC Manufacturer: AzureWave Technologies, Inc.
8F., No. 94, Baozhong Rd., Xindian Dist., New Taipei City,
Taiwan 23144

Product Name: IEEE 802.11ah Wireless LAN Module

Brand Name: AzureWave

Model No.: AW-HM593

Model Difference: N/A

Report Number: TERF2403000636E2

FCC ID TLZ-HM593

Date of EUT Received: March 13, 2024

Date of Test: March 13, 2024 ~ March 21, 2024

Issue Date: May 13, 2024

Arno Hsieh

Approved By

Arno 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
TERF2403000636E2	00	Original	April 3, 2024	Violetta Tang	
TERF2403000636E2	01	Corrected max. antenna gain information on page 4	May 13, 2024	Violetta Tang	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	IEEE 802.11ah Wireless LAN Module
Brand Name:	AzureWave
Model No.:	AW-HM593
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	F854F679DAEC
Power Supply:	3.3V or 5V
Test Software (Name/Version)	mm_rf_tester_V1.1, mm_rf_tester_V1.0

1.2 RF Specification

Radio Technology:	802.11ah
Frequency Range:	902 – 928MHz
Modulation type:	OFDM
Transmit Power:	802.11ah 1M: 26.27 dBm 802.11ah 2M: 26.61 dBm 802.11ah 4M: 26.81 dBm 802.11ah 8M: 26.89 dBm
Antenna Designation:	Dipole Antenna, Gain: 2.34dBi

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

1.4 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.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 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 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.2 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.

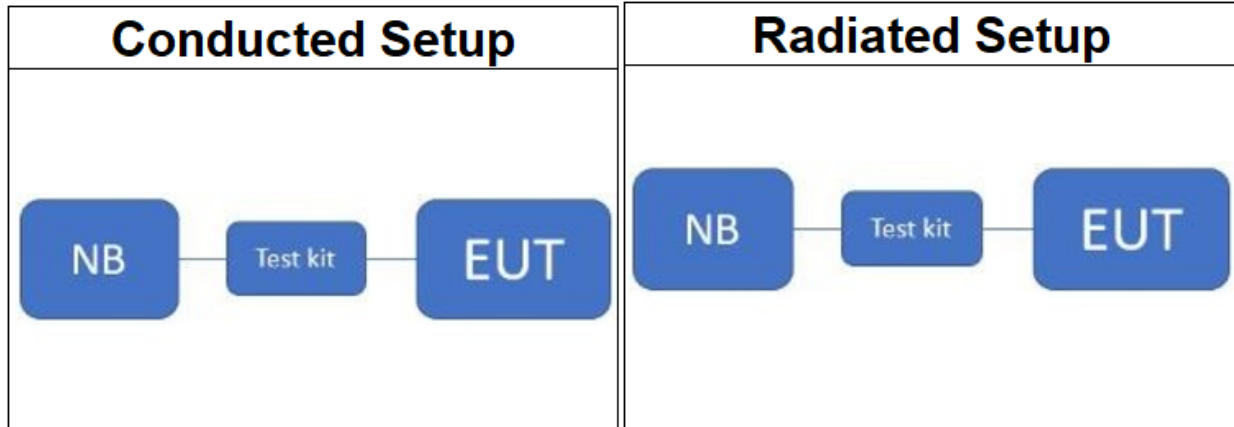
2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Kit	AzureWave	2593 ver.l1	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Kit	AzureWave	2593 ver.l1	N/A	N/A	N/A
Notebook	Lenovo	L480	P0002332	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(b)(3)	Peak Output Power	Compliant
§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

Channel List	OFDM 1M		OFDM 2M		OFDM 4M		OFDM 8M	
	CH	Freq.(MHz)	CH	Freq.(MHz)	CH	Freq.(MHz)	CH	Freq.(MHz)
	3	903.5	6	905	8	906	12	908
	5	904.5	10	907	16	910	28	916
	7	905.5	14	909	24	914	44	924
	9	906.5	18	911	32	918		
	11	907.5	22	913	40	922		
	13	908.5	26	915	48	926		
	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						
	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							

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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.

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
802.11ah 1M	902 to 928	914.5	OFDM	MCS0
802.11ah 2M	902 to 928	915	OFDM	MCS0
802.11ah 4M	902 to 928	914	OFDM	MCS0
802.11ah 8M	902 to 928	916	OFDM	MCS0

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
802.11ah 1M	902 to 928	903.5,914.5,926.5	OFDM	MCS0
802.11ah 2M	902 to 928	905,915,925	OFDM	MCS0
802.11ah 4M	902 to 928	906,914,922,926	OFDM	MCS0
802.11ah 8M	902 to 928	908,916,924	OFDM	MCS0

CONDUCTED TEST				
MODE	AVAILABLE Frequency (MHz)	TESTED Frequency (MHz)	MODULATION	DATA RATE (Mbps)
802.11ah 1M	902 to 928	903.5,914.5,926.5	OFDM	MCS0
802.11ah 2M	902 to 928	905,915,925	OFDM	MCS0
802.11ah 4M	902 to 928	906,914,922,926	OFDM	MCS0
802.11ah 8M	902 to 928	908,916,924	OFDM	MCS0

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Output Power measurement	+/- 0.97 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 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 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/23/2023	05/22/2024
Power Meter	Anritsu	ML2496A	2138005	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911395	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911396	09/25/2023	09/24/2024
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF155	11/15/2023	11/14/2024

6.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/26/2023	05/25/2024
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2023	04/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/29/2023	03/28/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024

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

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7 PEAK OUTPUT POWER MEASUREMENT

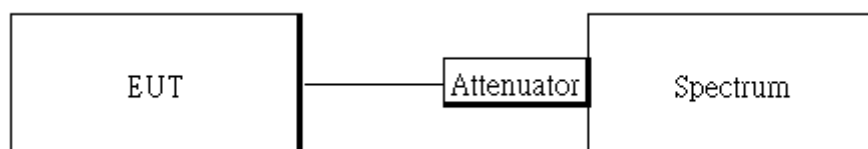
7.1 Standard Applicable

For systems using digital modulation in the 902 – 928 MHz, 2400 – 2483.5 MHz, and 5725 – 5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

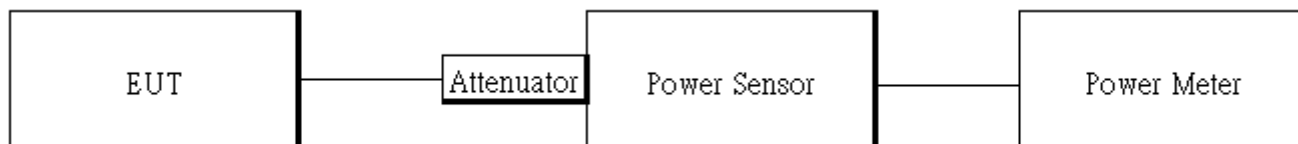
The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



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7.3 Measurement Procedure:

7.3.1 Duty Cycle

1. Place the EUT on the table and set it in transmitting mode.
2. Set span = Zero
3. RBW = 8MHz, VBW = 8MHz,
4. Detector = Peak

7.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW $\geq$ 20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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7.4 Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
OFDM 1M	89.33	0.49	0.29	1.00
OFDM 2M	80.10	0.96	0.64	1.00
OFDM 4M	69.29	1.59	1.14	2.00
OFDM 8M	59.26	2.27	1.79	2.00

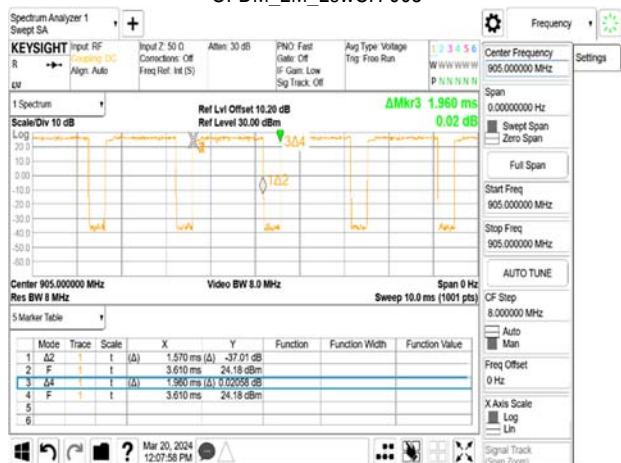
OFDM_1M_LowCH-903.5



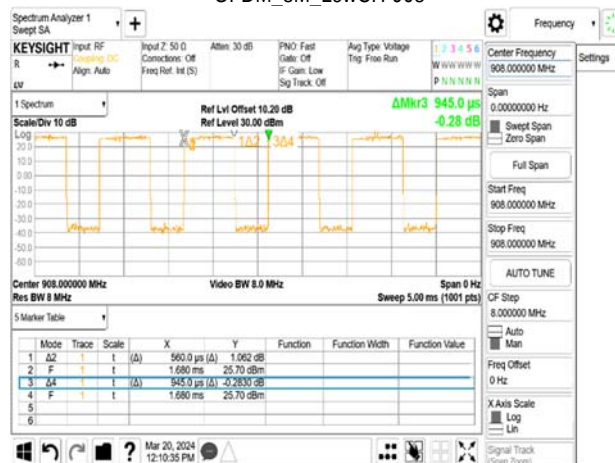
OFDM_4M_LowCH-906



OFDM_2M_LowCH-905



OFDM_8M_LowCH-908



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7.5 Output Power:

7.5.1 Peak & Avg

OFDM 1M mode:

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
3	903.5	0	26.22	30
25	914.5	0	26.27	30
49	926.5	1	26.15	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
3	903.5	0	21.21	30
25	914.5	0	21.29	30
49	926.5	1	21.18	30

***Note:**

1. Measured by power meter, cable loss 10.2 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

OFDM 2M mode:

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
6	905	1	26.53	30
26	915	0	26.61	30
46	925	1	26.42	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
6	905	1	21.30	30
26	915	0	21.35	30
46	925	1	21.17	30

***Note:**

1. Measured by power meter, cable loss 10.2 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

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OFDM 4M mode:

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
8	906	0	26.71	30
24	914	0	26.81	30
40	922	0	26.75	30
48	926	-3	25.04	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
8	906	0	21.03	30
24	914	0	21.13	30
40	922	0	21.09	30
48	926	-3	17.33	30

***Note:**

1.Measured by power meter, cable loss 10.2 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

OFDM 8M mode:

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
12	908	0	26.82	30
28	916	0	26.89	30
44	924	-1	26.22	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
12	908	0	20.85	30
28	916	0	20.91	30
44	924	-1	19.48	30

***Note:**

1.Measured by power meter, cable loss 10.2 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

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8 SPURIOUS RADIATED EMISSION TEST

8.1 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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:

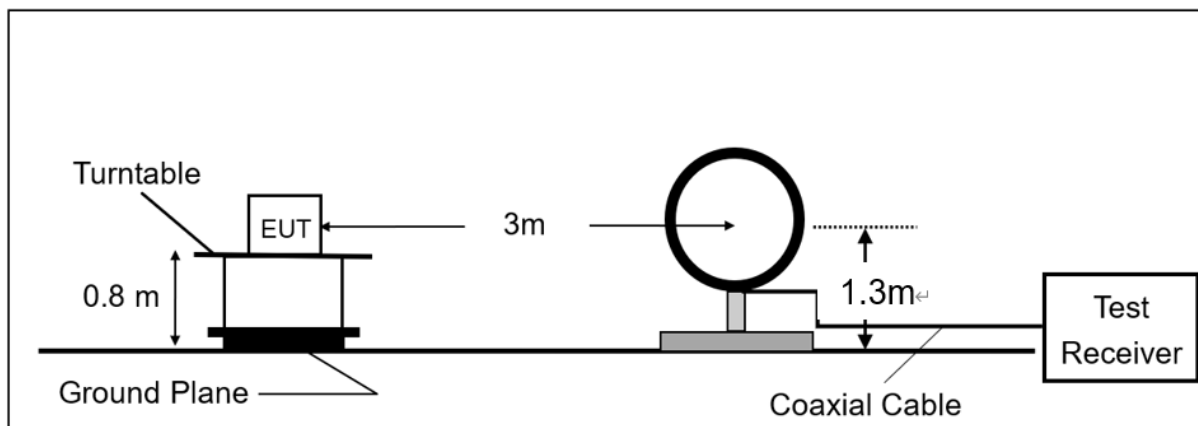
1. The lower limit shall apply at the transition frequencies.

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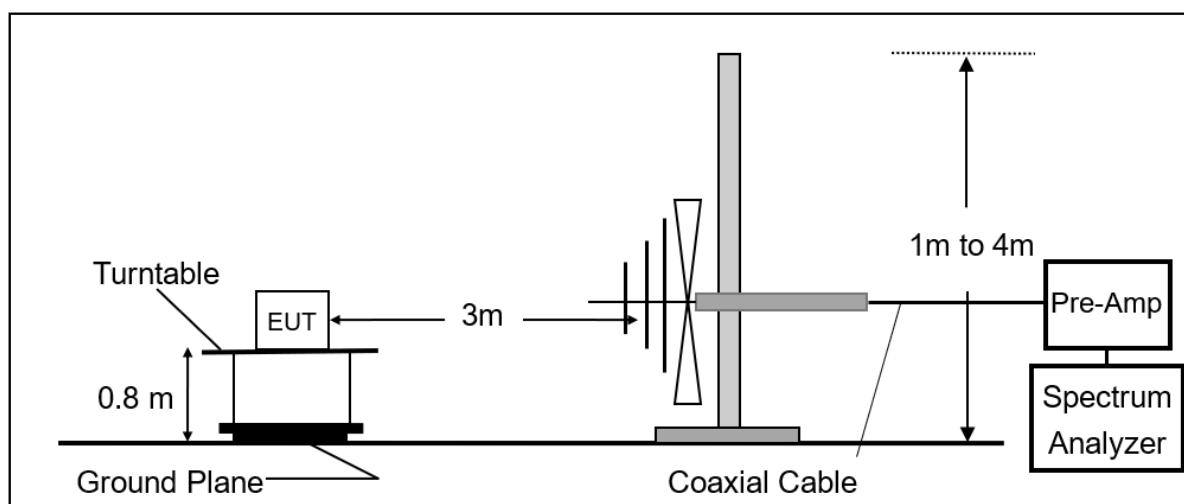
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8.2 Test Setup

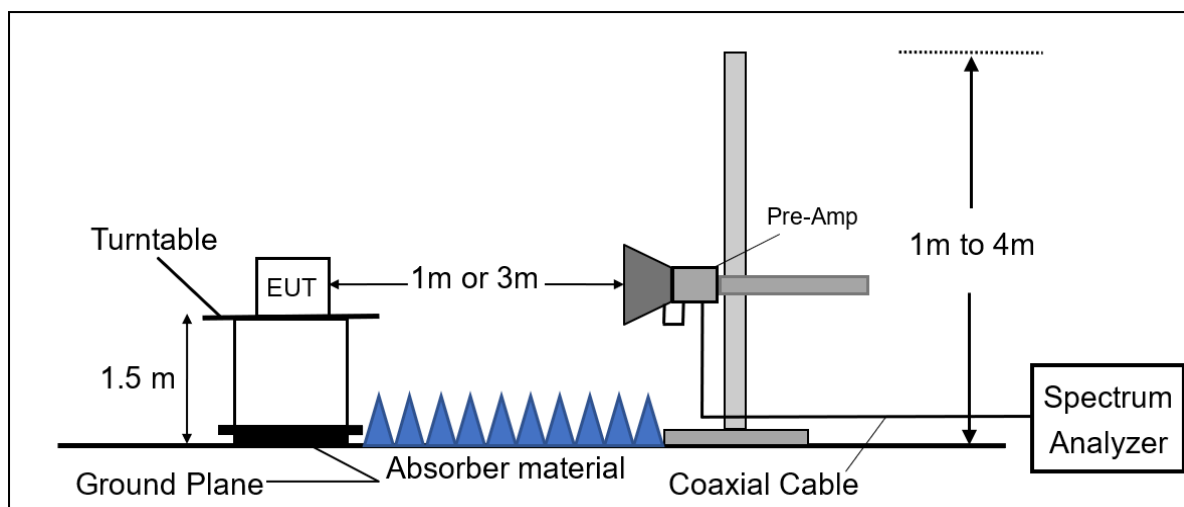
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 Measurement Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log(T_{on}/100ms)$.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

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8.4 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 $20 \cdot \log(\mu\text{V/m})$

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

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

8.5 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.

8.6 Measurement Result:

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

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8.6.1 Radiated Main and Band Edge Measurement Result:

Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :914.5 MHz

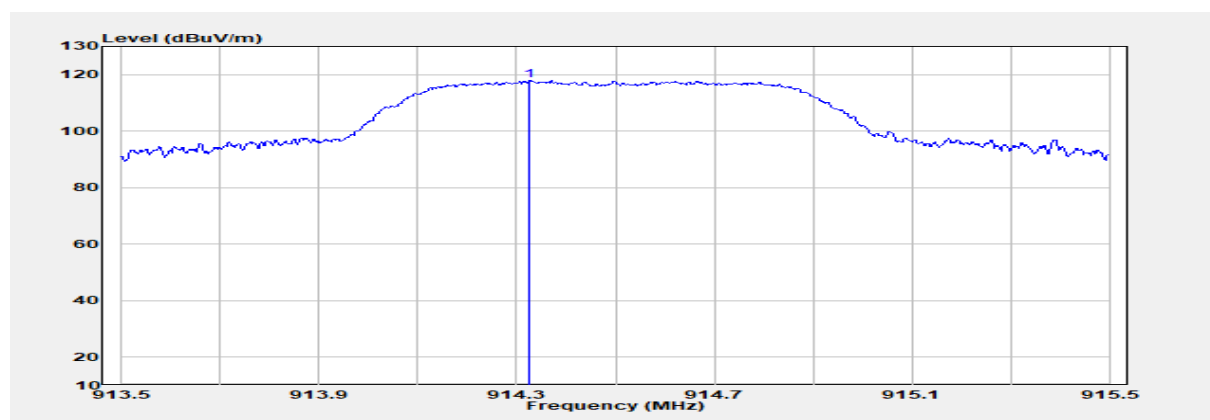
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
914.326	Peak	123.36	-5.35	118.02	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :914.5 MHz

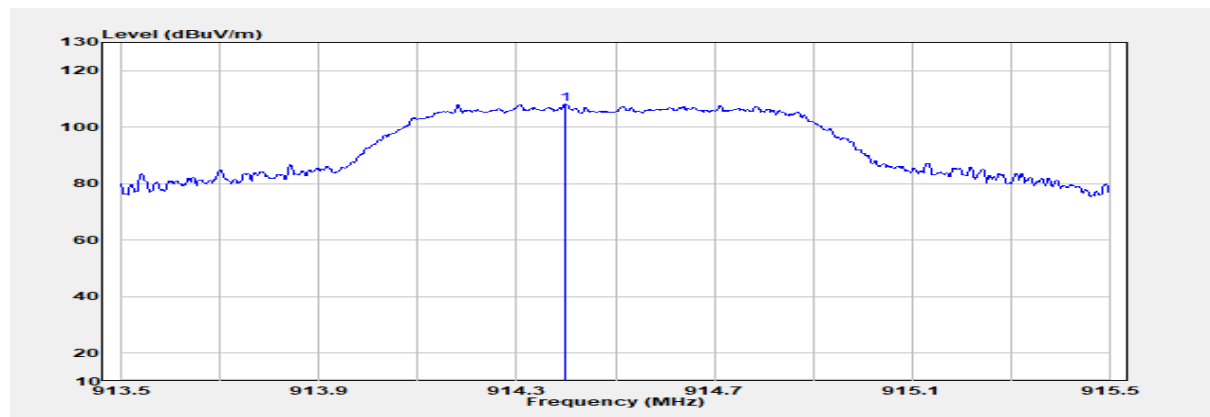
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
914.400	Peak	113.46	-5.34	108.11	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :915 MHz

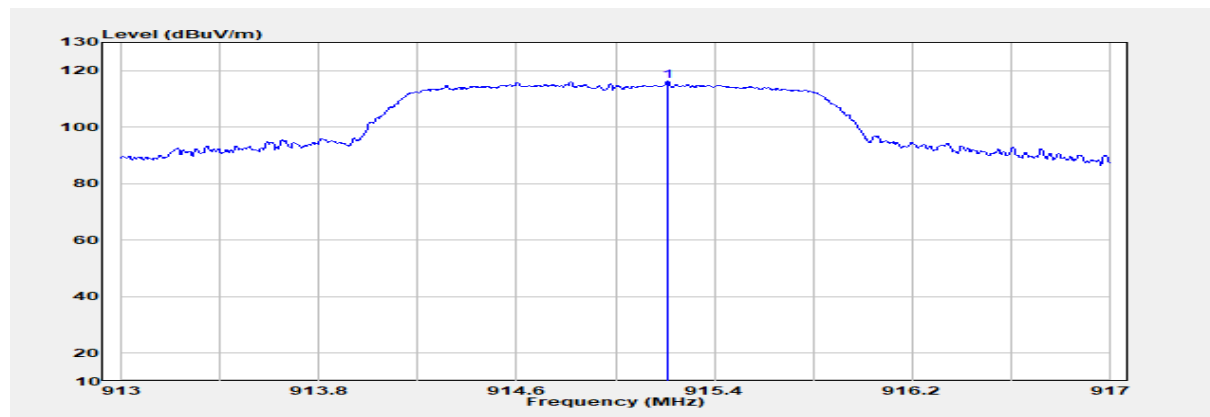
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
915.212	Peak	121.59	-5.31	116.28	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :915 MHz

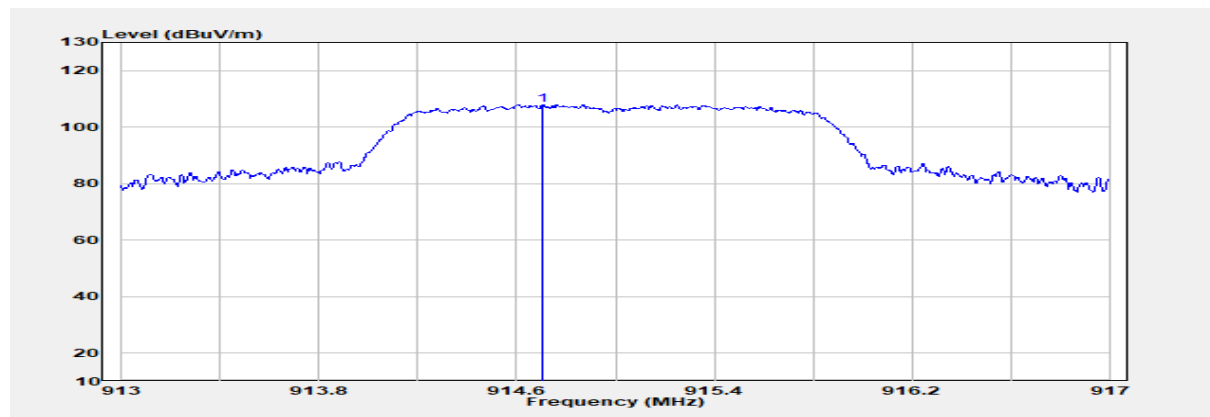
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
914.704	Peak	113.34	-5.33	108.01	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :914 MHz

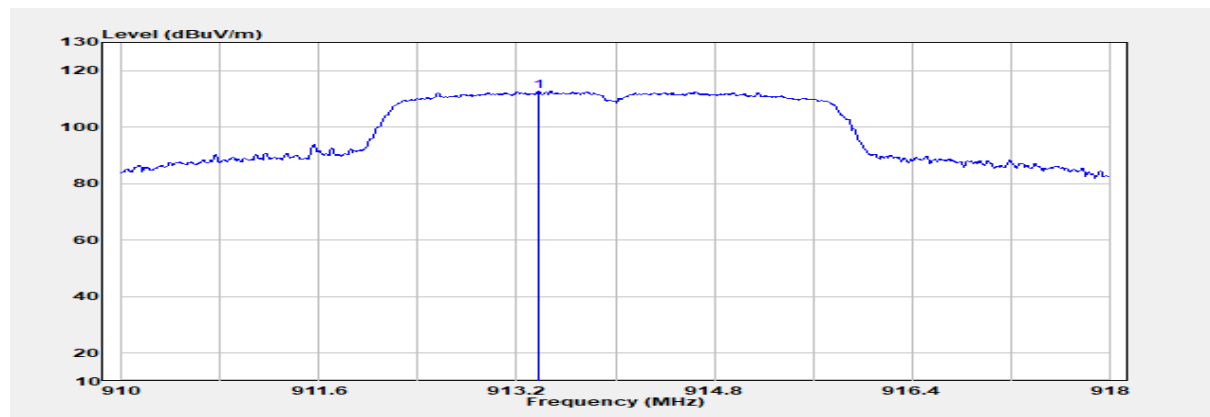
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
913.384	Peak	118.26	-5.39	112.87	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :914 MHz

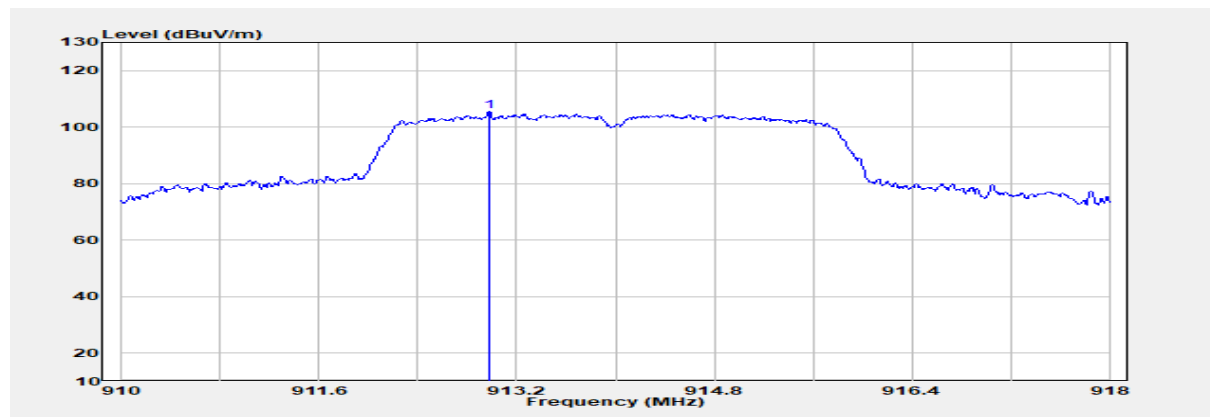
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
912.976	Peak	110.97	-5.41	105.56	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :916 MHz

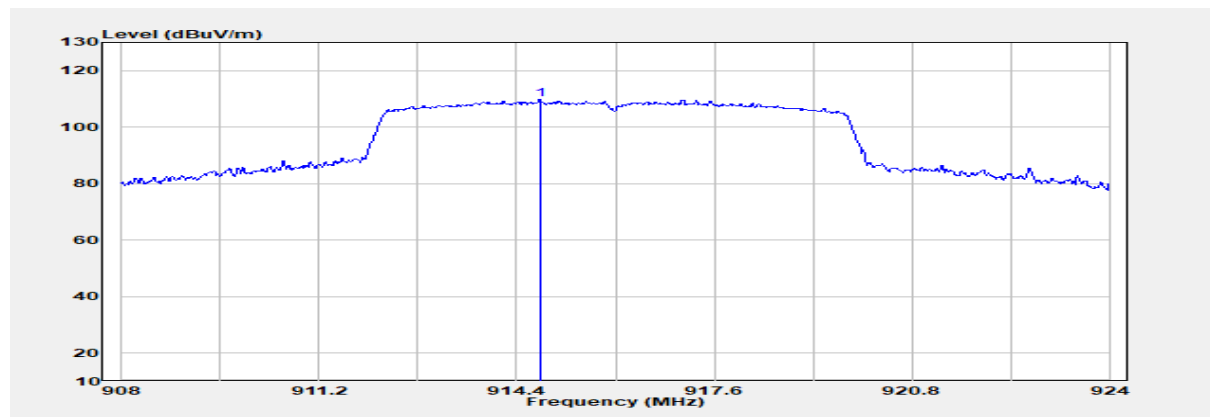
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
914.784	Peak	115.18	-5.33	109.86	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :916 MHz

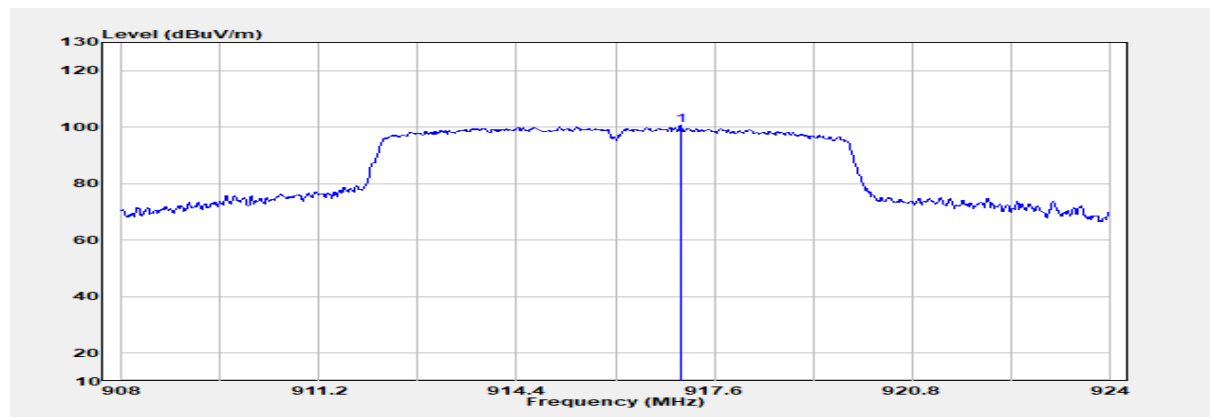
Temp./Humi. :21.0°C/46%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
917.056	Peak	106.12	-5.26	100.86	-	-

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :903.5 MHz

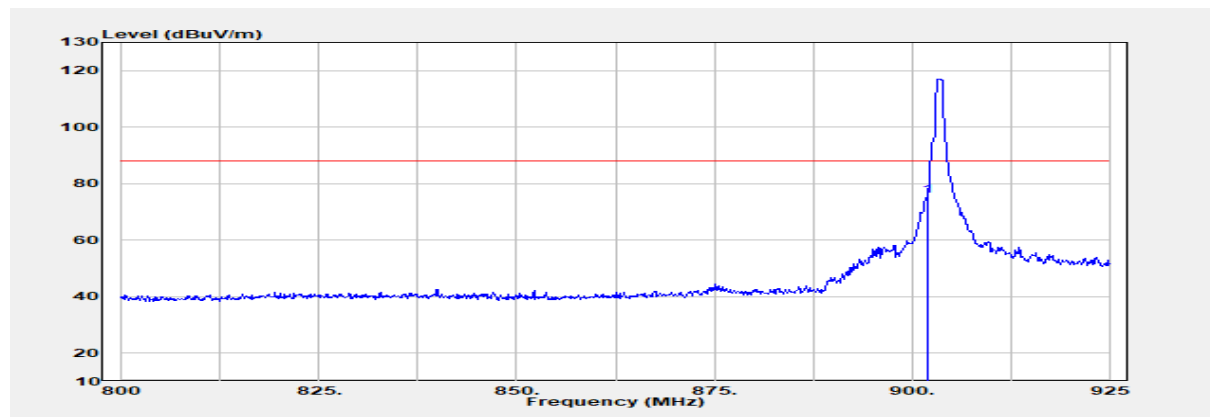
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
902.000	Peak	81.59	-5.82	75.77	88.02	-12.25

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :903.5 MHz

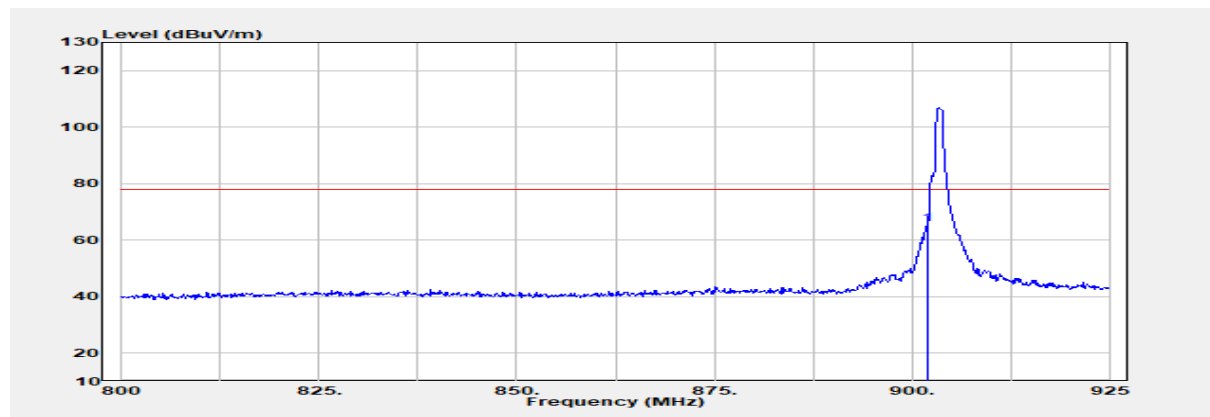
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	71.39	-5.82	65.56	78.11	-12.55

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :926.5 MHz

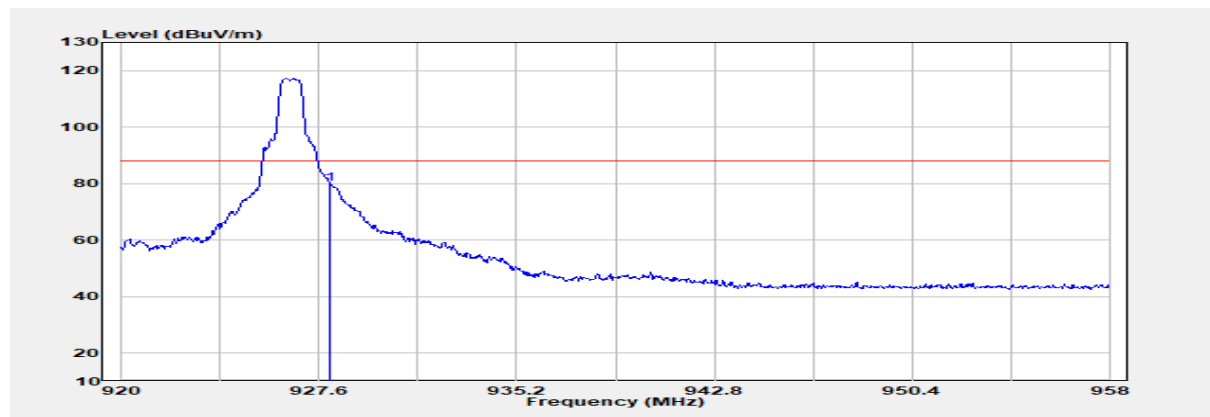
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
928.000	Peak	84.73	-4.86	79.87	88.02	-8.15

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :926.5 MHz

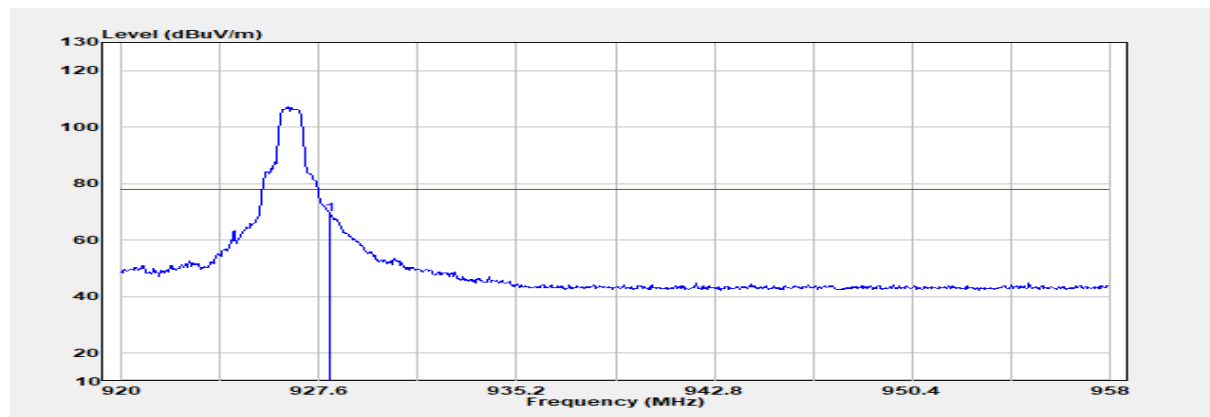
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dB μ V		dB μ V/m	dB μ V/m	
928.000	Peak	74.06	-4.86	69.20	78.11	-8.91

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Member of SGS Group

Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :905 MHz

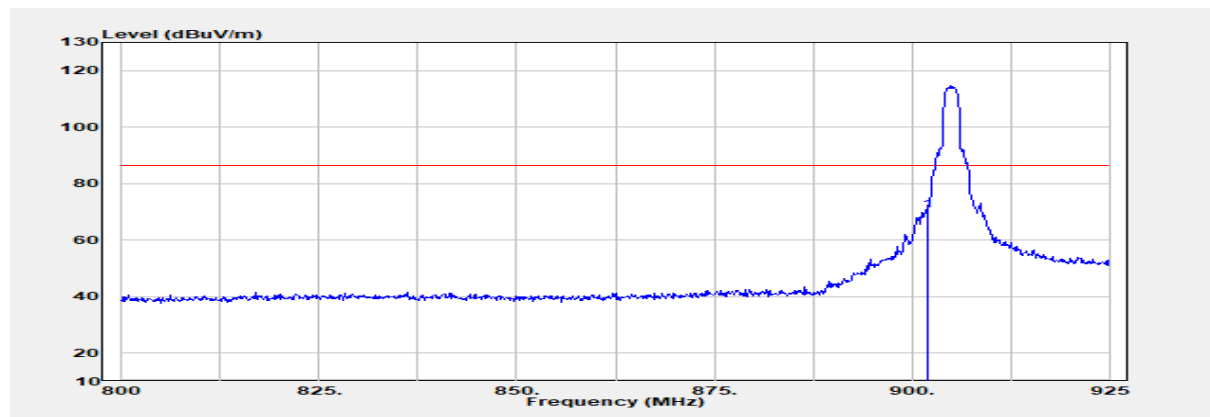
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	76.46	-5.82	70.64	86.28	-15.64

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :905 MHz

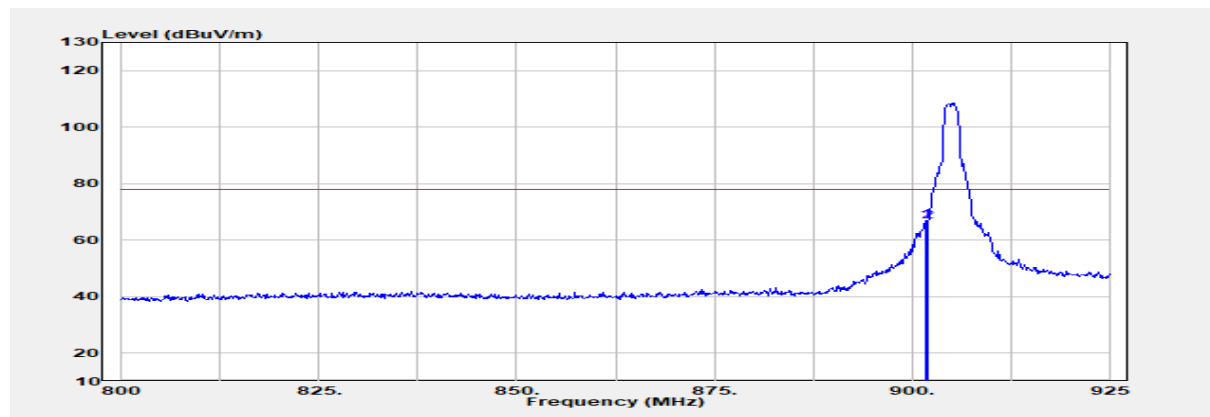
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
901.750	Peak	72.81	-5.83	66.97	78.01	-11.04
902.000	Peak	72.38	-5.82	66.56	78.01	-11.45

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :925 MHz

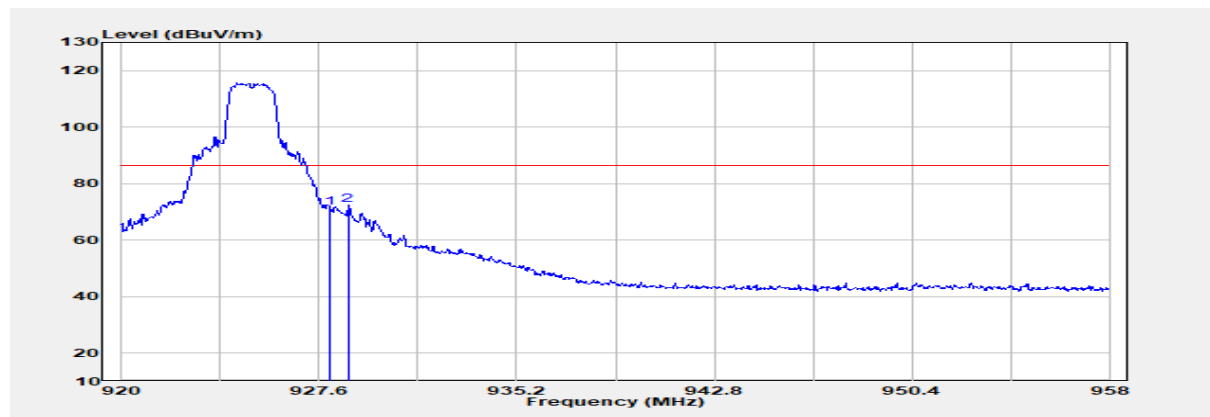
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
928.000	Peak	76.44	-4.86	71.58	86.28	-14.70
928.702	Peak	77.19	-4.85	72.34	86.28	-13.94

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :925 MHz

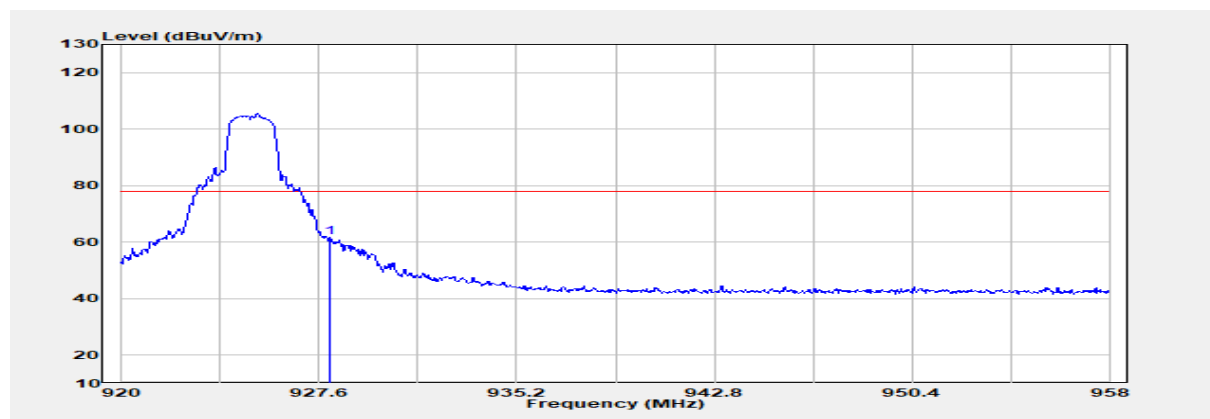
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
928.000	Peak	66.54	-4.86	61.68	78.01	-16.33

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :906 MHz

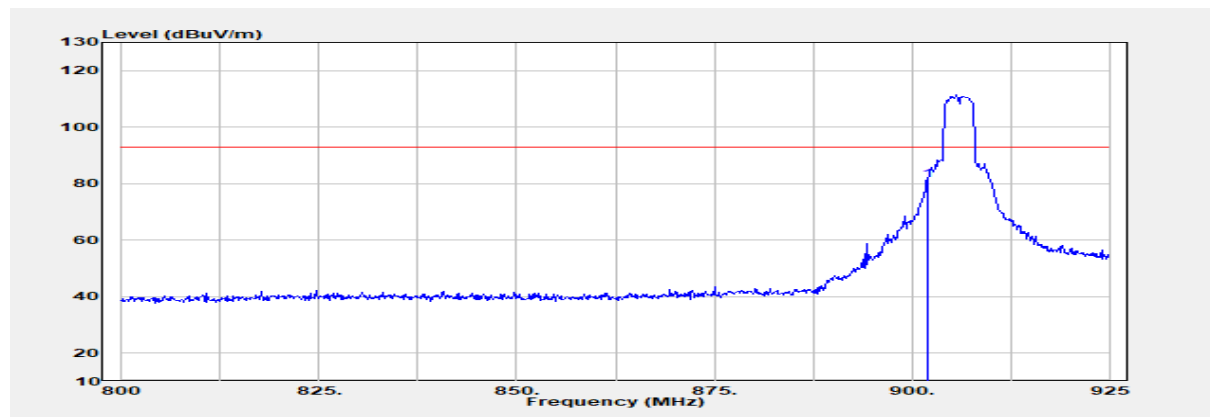
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	87.18	-5.82	81.36	92.87	-11.51

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :906 MHz

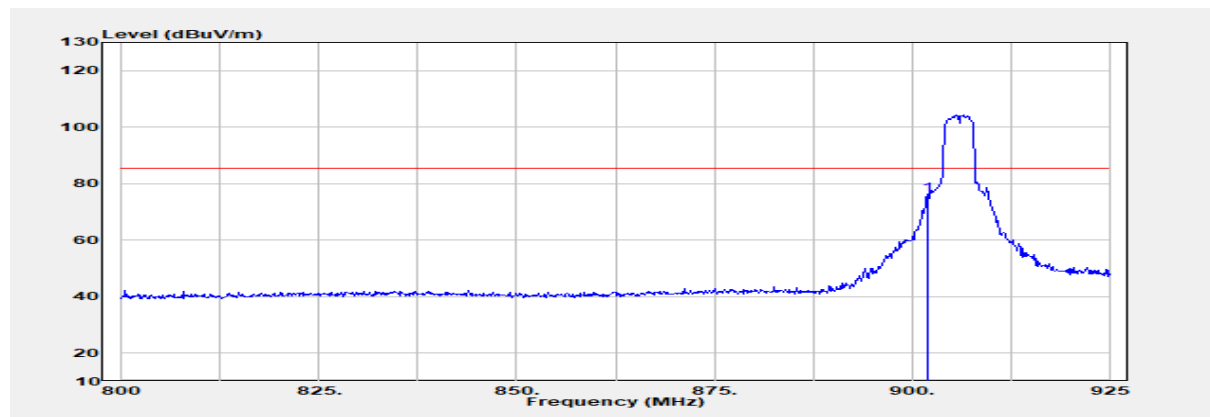
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
902.000	Peak	82.09	-5.82	76.27	85.56	-9.29

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Member of SGS Group

Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :922 MHz

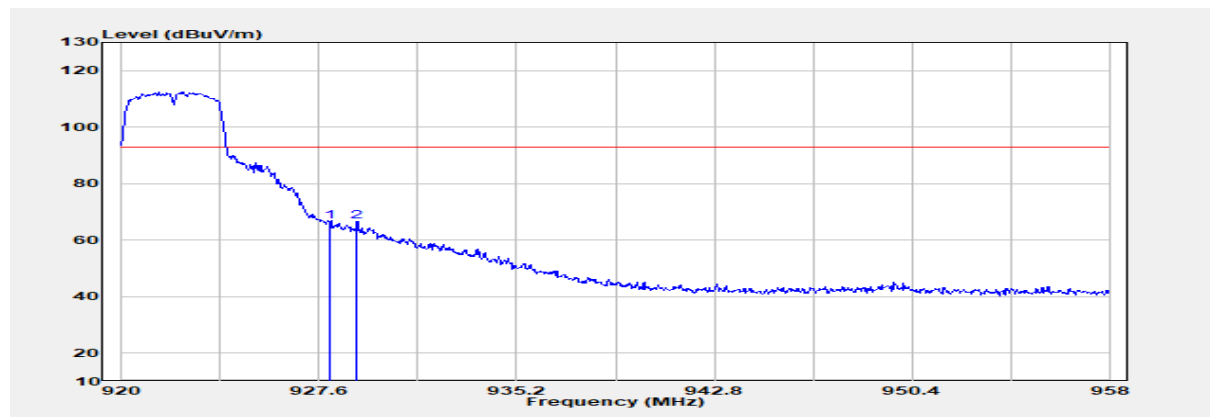
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
928.000	Peak	71.39	-4.86	66.53	92.87	-26.34
929.044	Peak	71.29	-4.85	66.44	92.87	-26.43

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :922 MHz

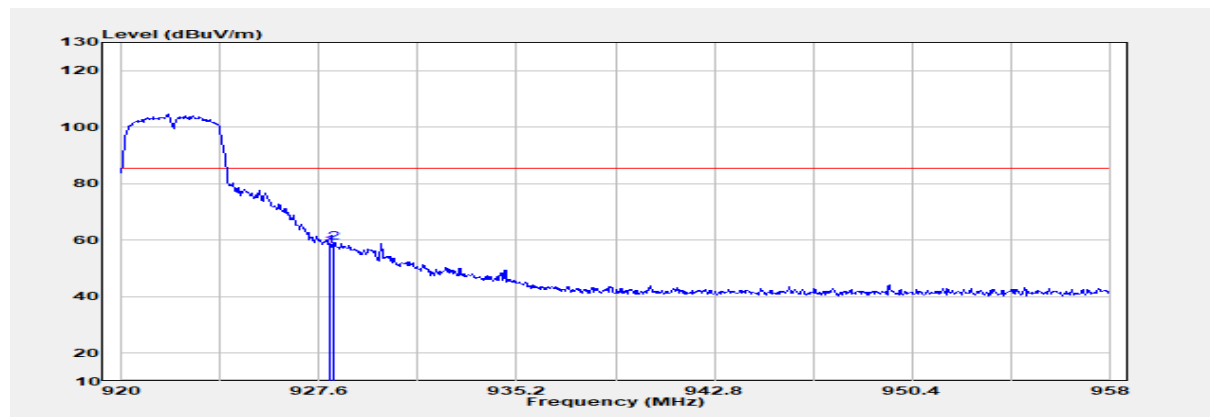
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
928.000	Peak	62.75	-4.86	57.90	85.56	-27.66
928.132	Peak	64.06	-4.86	59.20	85.56	-26.36

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Member of SGS Group

Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :926 MHz

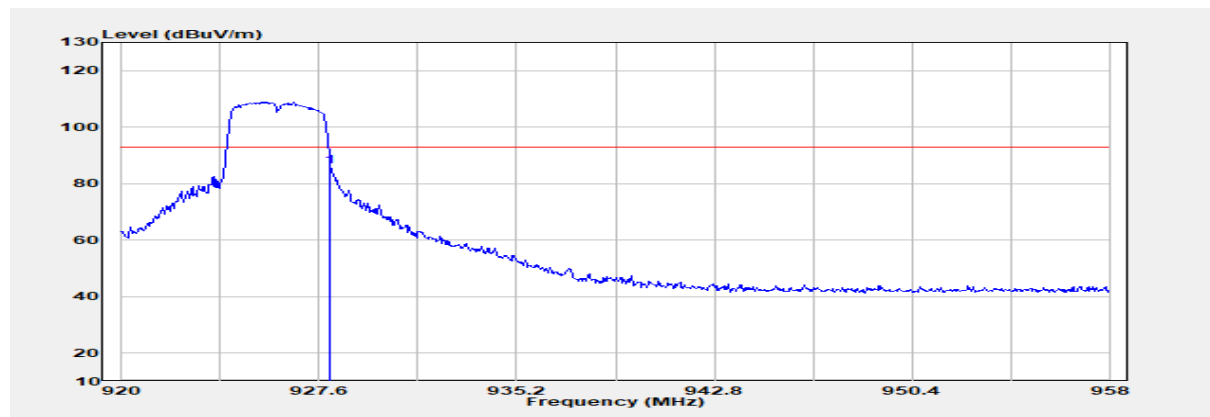
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
928.000	Peak	91.10	-4.86	86.24	92.87	-6.63

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :926 MHz

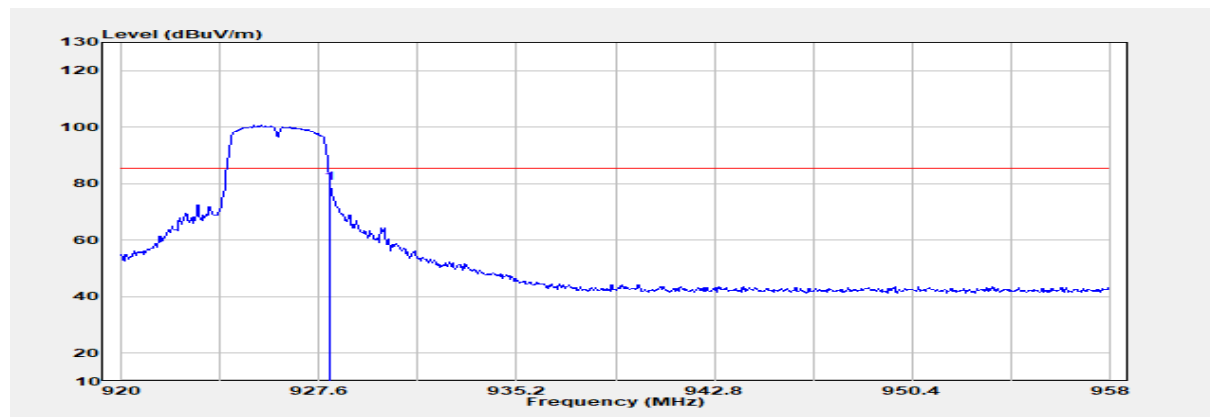
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
928.000	Peak	84.95	-4.86	80.09	85.56	-5.47

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :908 MHz

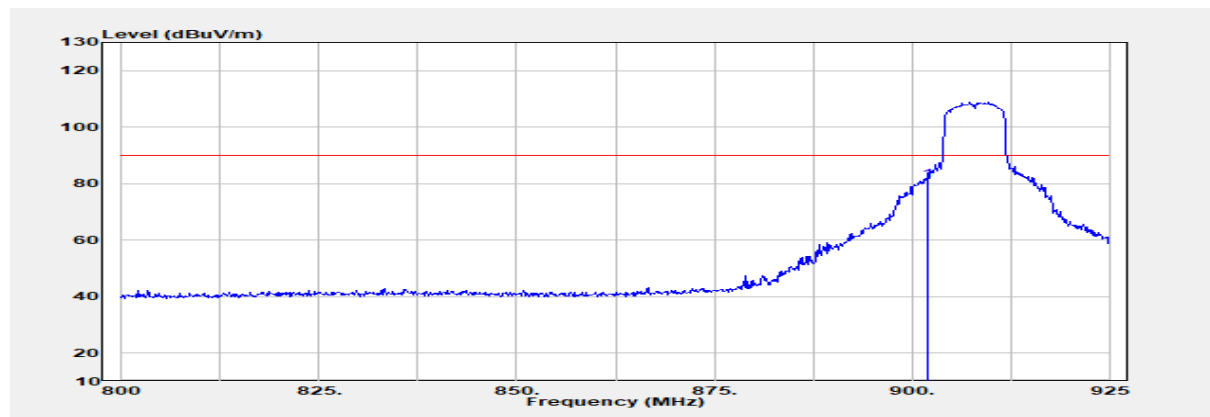
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	87.11	-5.82	81.29	89.86	-8.57

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :908 MHz

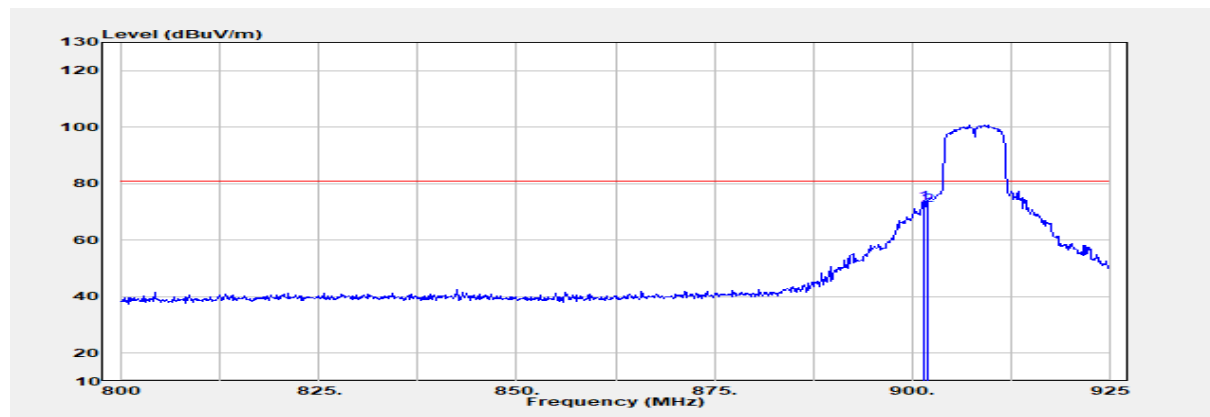
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
901.500	Peak	79.20	-5.84	73.35	80.86	-7.51
902.000	Peak	78.15	-5.82	72.32	80.86	-8.54

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :924 MHz

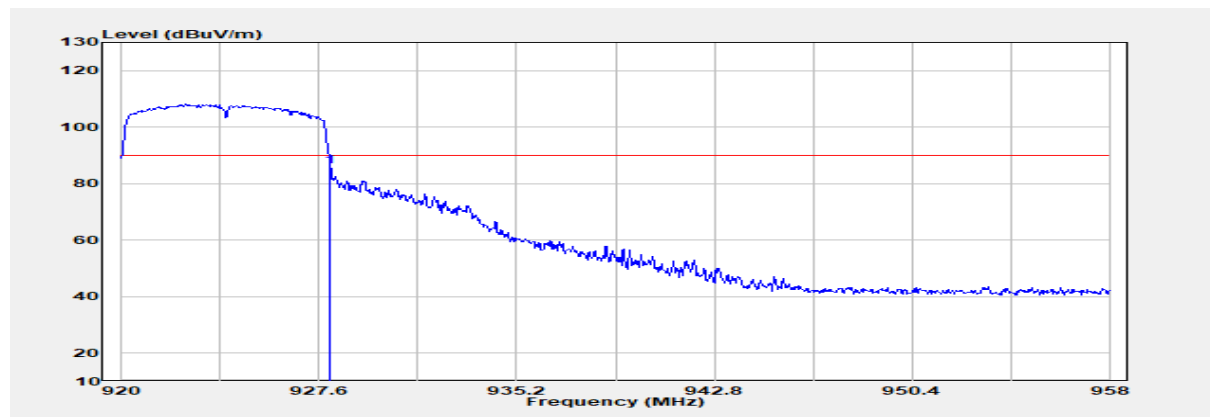
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
928.000	Peak	90.80	-4.86	85.94	89.86	-3.92

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :924 MHz

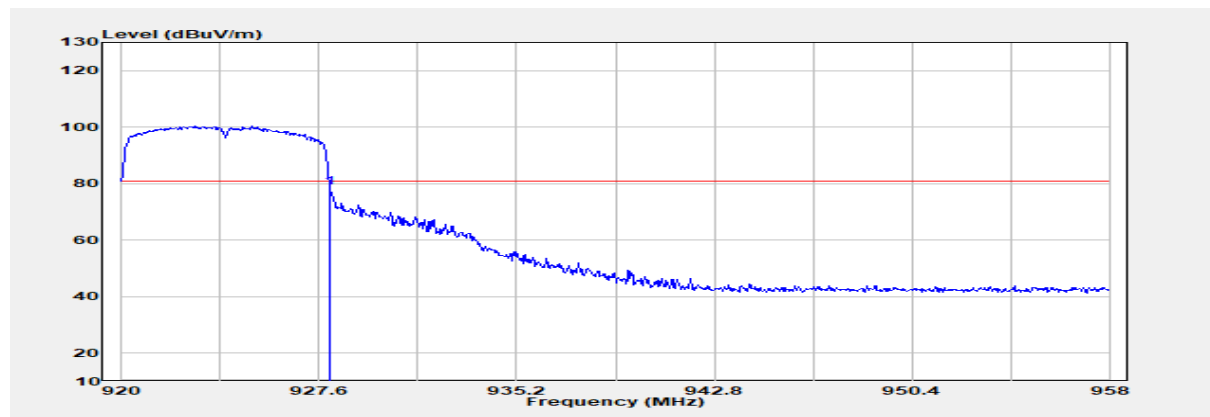
Temp./Humi. :21.0°C/46%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
928.000	Peak	83.48	-4.86	78.62	80.86	-2.24

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8.6.2 Radiated Spurious Emission

Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :914.5 MHz

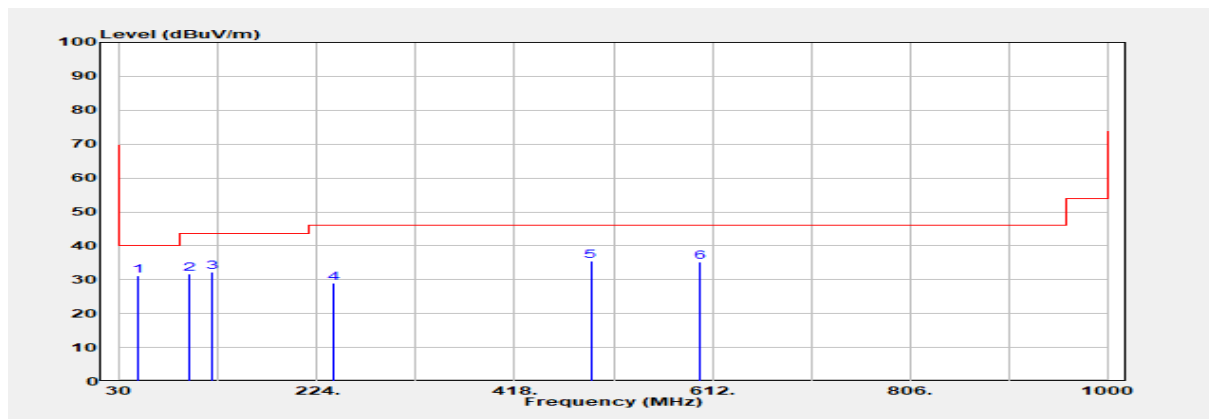
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	48.33	-17.09	31.25	40.00	-8.75
98.870	Peak	53.83	-22.25	31.58	43.50	-11.92
120.210	Peak	52.06	-19.88	32.18	43.50	-11.32
239.520	Peak	47.00	-17.96	29.04	46.00	-16.96
492.690	Peak	47.22	-11.75	35.47	46.00	-10.53
600.360	Peak	44.44	-9.31	35.13	46.00	-10.87

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-20

Test Frequency :914.5 MHz

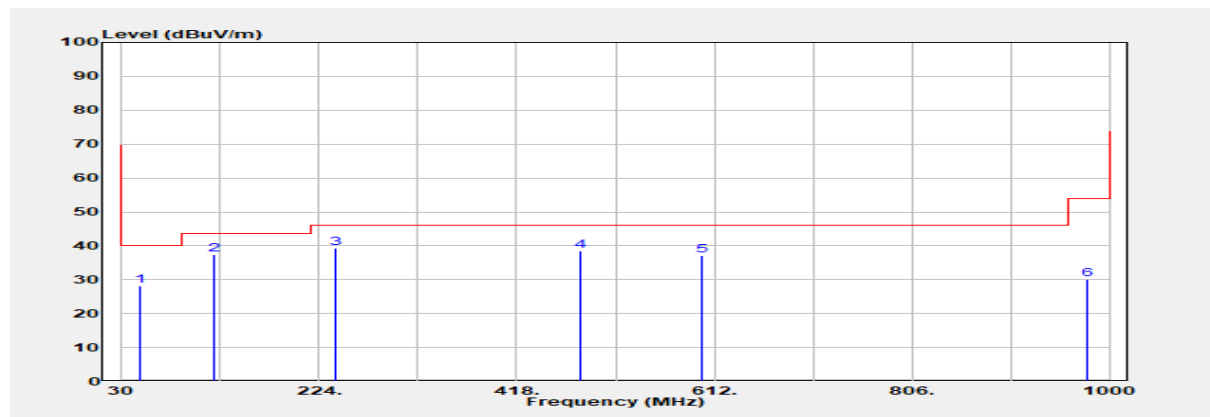
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	45.02	-16.97	28.05	40.00	-11.95
120.210	Peak	57.29	-19.88	37.41	43.50	-6.09
240.490	Peak	57.06	-17.85	39.21	46.00	-6.79
480.080	Peak	50.40	-11.92	38.48	46.00	-7.52
600.360	Peak	46.36	-9.31	37.04	46.00	-8.96
978.660	Peak	34.78	-4.73	30.05	54.00	-23.95

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :915 MHz

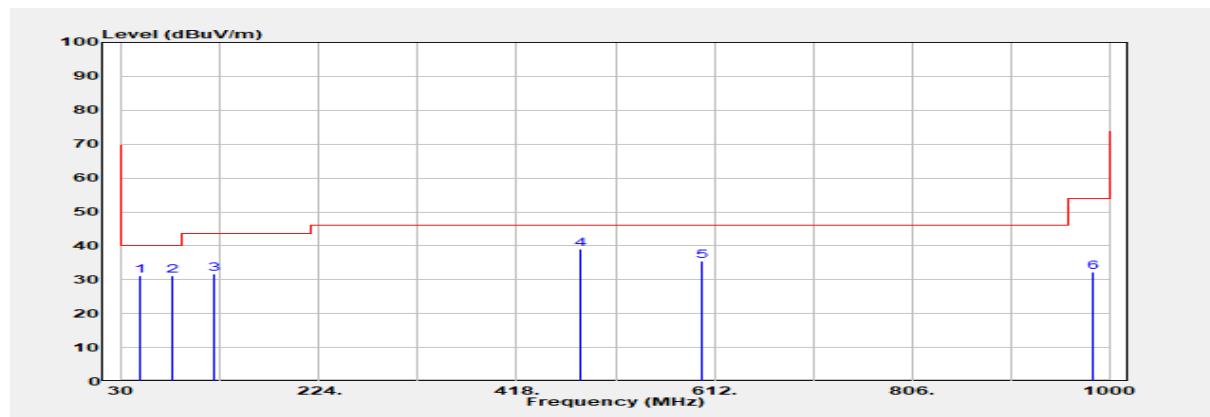
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
47.460	Peak	48.17	-17.09	31.08	40.00	-8.92
79.470	Peak	53.34	-22.21	31.13	40.00	-8.87
120.210	Peak	51.53	-19.88	31.65	43.50	-11.85
480.080	Peak	50.95	-11.92	39.03	46.00	-6.97
600.360	Peak	44.69	-9.31	35.38	46.00	-10.62
984.480	Peak	36.95	-4.77	32.17	54.00	-21.83

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-20

Test Frequency :915 MHz

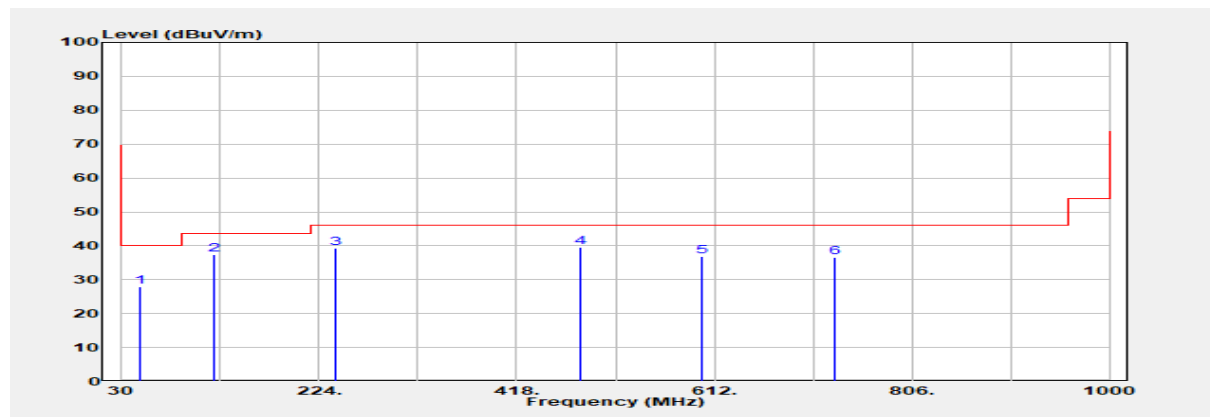
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	44.88	-17.09	27.79	40.00	-12.21
120.210	Peak	57.30	-19.88	37.42	43.50	-6.08
240.490	Peak	57.11	-17.85	39.26	46.00	-6.74
480.080	Peak	51.40	-11.92	39.48	46.00	-6.52
600.360	Peak	46.28	-9.31	36.97	46.00	-9.03
730.340	Peak	43.71	-7.00	36.71	46.00	-9.29

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :914 MHz

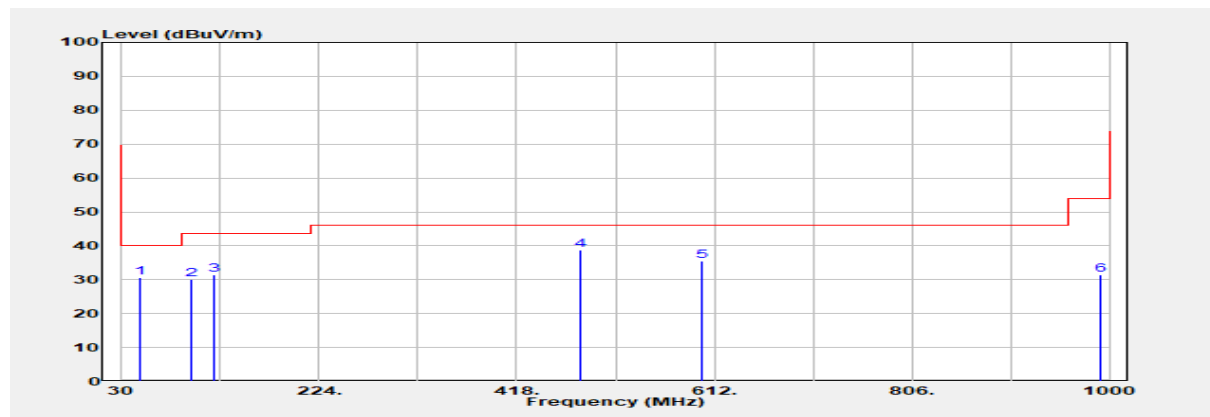
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	47.68	-17.09	30.59	40.00	-9.41
98.870	Peak	52.22	-22.25	29.97	43.50	-13.53
120.210	Peak	51.42	-19.88	31.54	43.50	-11.96
480.080	Peak	50.63	-11.92	38.71	46.00	-7.29
600.360	Peak	44.69	-9.31	35.38	46.00	-10.62
991.270	Peak	36.14	-4.79	31.36	54.00	-22.64

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-20

Test Frequency :914 MHz

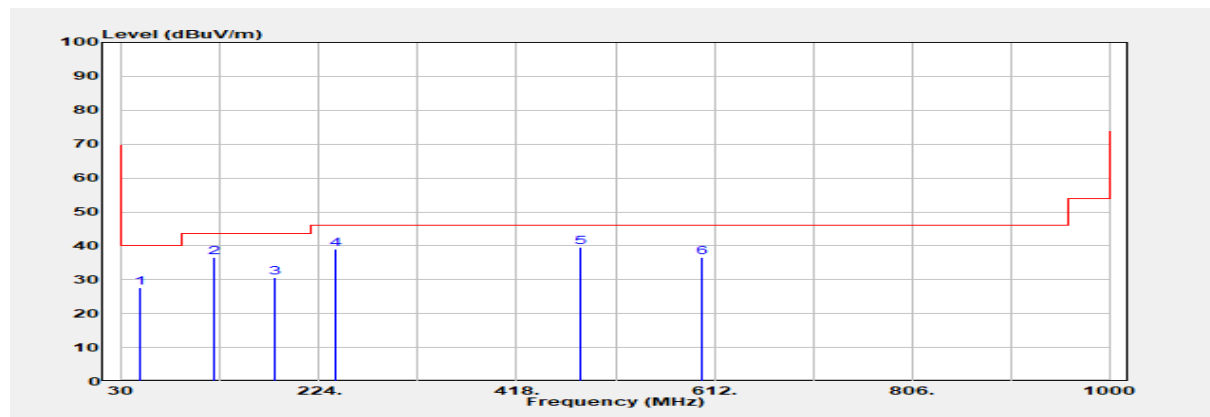
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	44.85	-17.09	27.77	40.00	-12.23
120.210	Peak	56.43	-19.88	36.55	43.50	-6.95
180.350	Peak	48.92	-18.30	30.62	43.50	-12.88
240.490	Peak	56.96	-17.85	39.11	46.00	-6.89
480.080	Peak	51.53	-11.92	39.61	46.00	-6.39
600.360	Peak	45.93	-9.31	36.62	46.00	-9.38

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :916 MHz

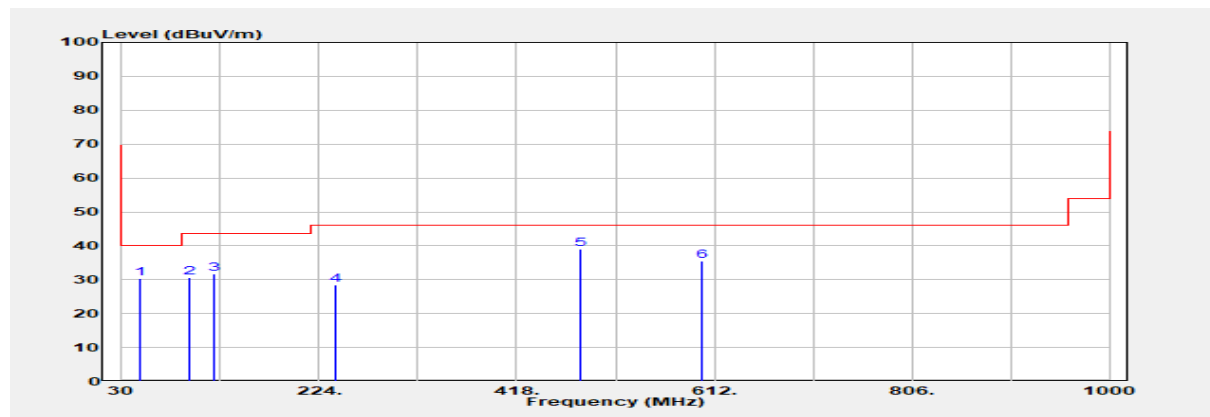
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	47.27	-16.97	30.30	40.00	-9.70
96.930	Peak	52.86	-22.33	30.53	43.50	-12.97
120.210	Peak	51.46	-19.88	31.58	43.50	-11.92
240.490	Peak	46.32	-17.85	28.47	46.00	-17.53
480.080	Peak	50.90	-11.92	38.98	46.00	-7.02
600.360	Peak	44.79	-9.31	35.48	46.00	-10.52

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-20

Test Frequency :916 MHz

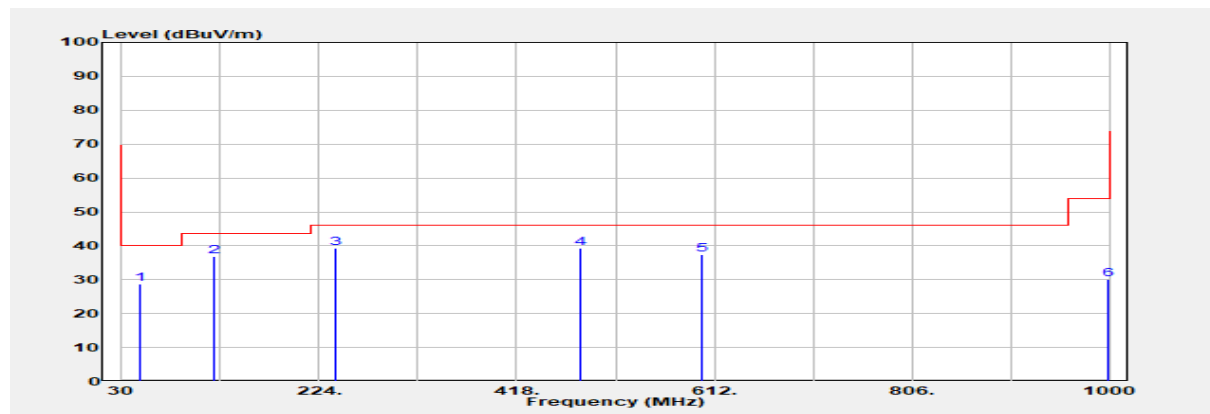
Temp./Humi. :21.0°C/46%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	45.82	-16.97	28.85	40.00	-11.15
120.210	Peak	56.64	-19.88	36.76	43.50	-6.74
240.490	Peak	57.08	-17.85	39.23	46.00	-6.77
480.080	Peak	51.24	-11.92	39.32	46.00	-6.68
600.360	Peak	46.63	-9.31	37.32	46.00	-8.68
998.060	Peak	34.65	-4.51	30.14	54.00	-23.86

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-21

Test Frequency :903.5 MHz

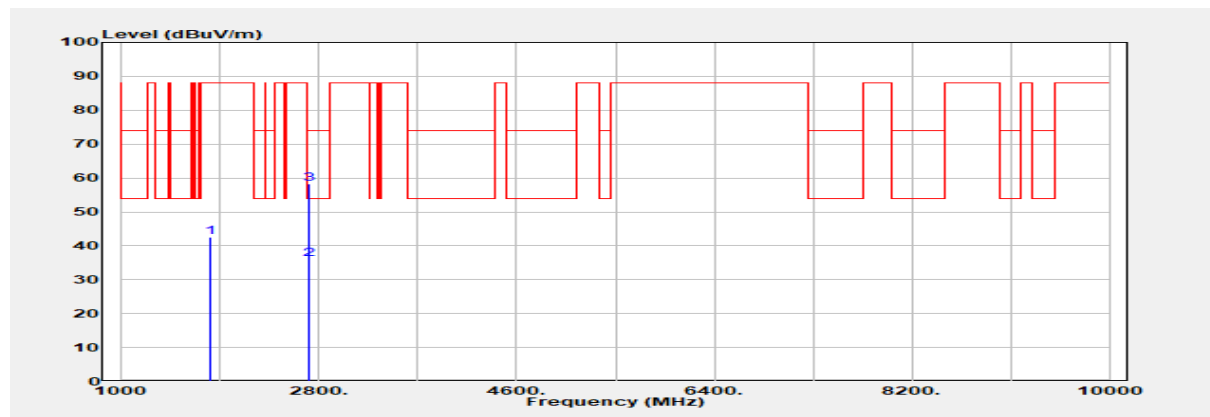
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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	50.36	-7.91	42.45	88.02	-45.57
2710.500	Average	39.64	-3.64	36.00	54.00	-18.00
2710.500	Peak	61.85	-3.64	58.21	74.00	-15.79

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-21

Test Frequency :903.5 MHz

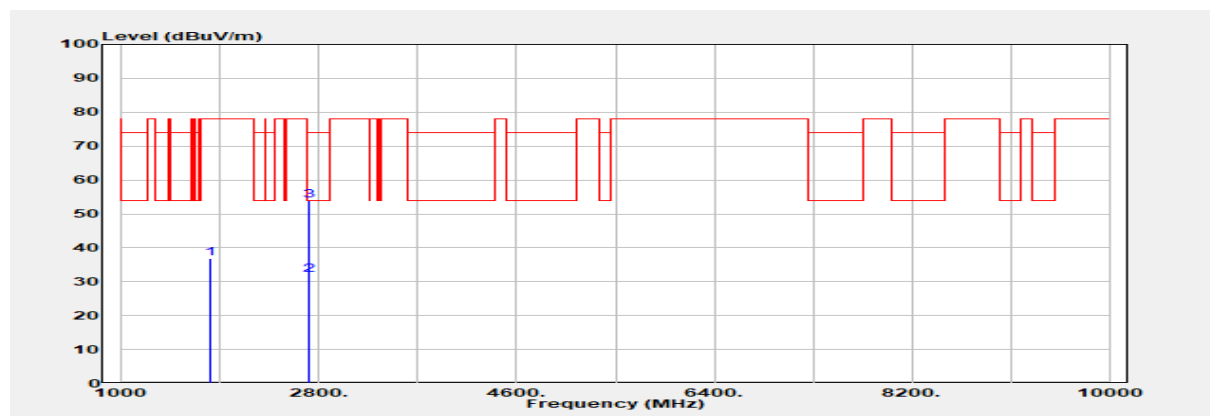
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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	44.90	-7.91	36.99	78.11	-41.12
2710.500	Average	35.50	-3.64	31.86	54.00	-22.14
2710.500	Peak	57.45	-3.64	53.81	74.00	-20.19

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-21

Test Frequency :914.5 MHz

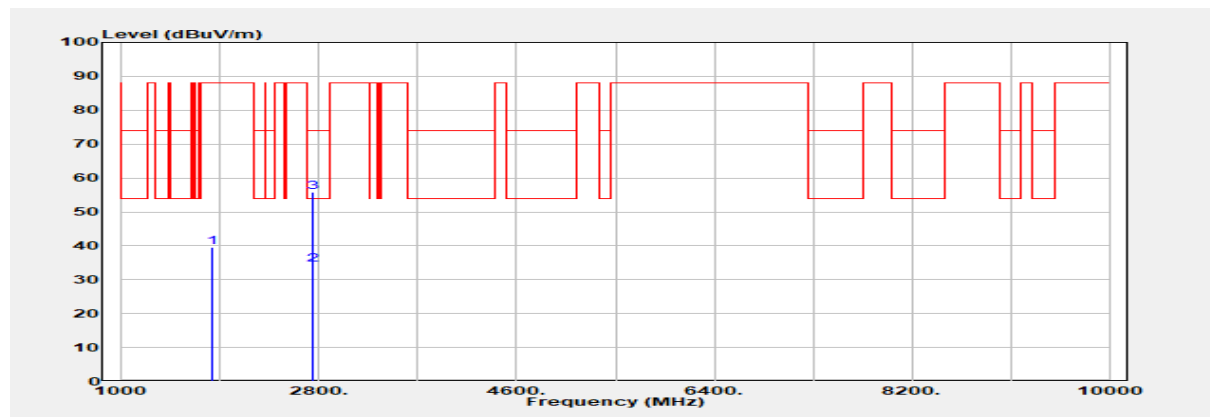
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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	47.44	-7.87	39.57	88.02	-48.45
2743.500	Average	38.42	-3.95	34.46	54.00	-19.54
2743.500	Peak	59.67	-3.95	55.71	74.00	-18.29

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-21

Test Frequency :914.5 MHz

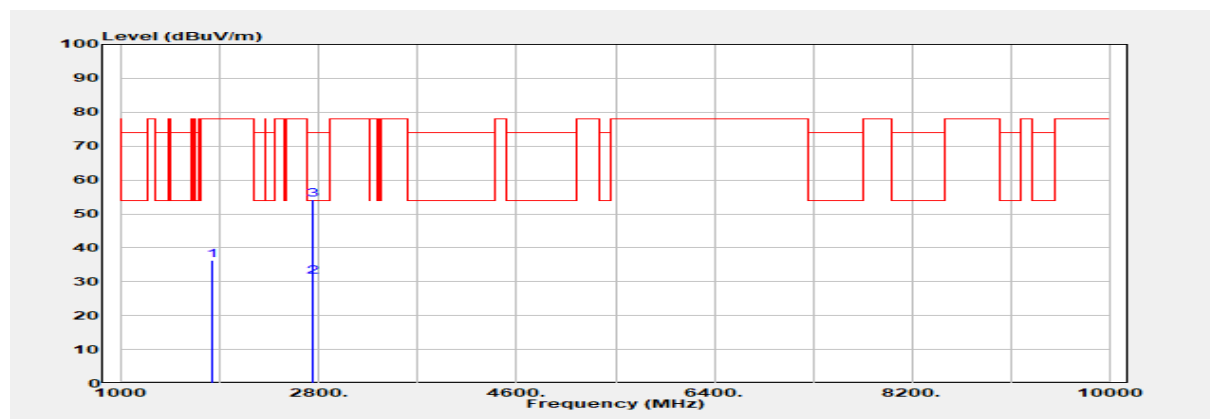
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
1829.000	Peak	44.25	-7.87	36.38	78.11	-41.73
2743.500	Average	35.50	-3.95	31.55	54.00	-22.45
2743.500	Peak	58.09	-3.95	54.14	74.00	-19.86

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-21

Test Frequency :926.5 MHz

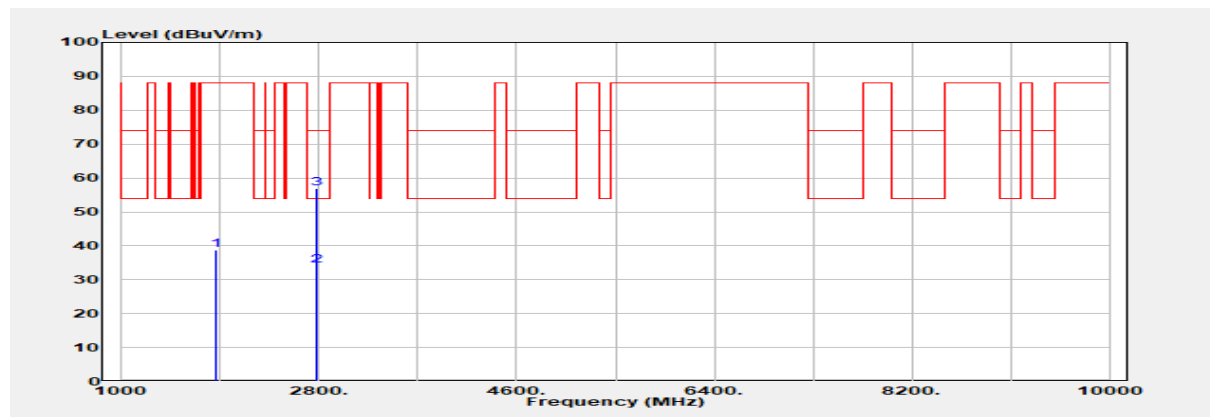
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1853.000	Peak	46.67	-7.84	38.83	88.02	-49.19
2779.500	Average	38.36	-4.08	34.28	54.00	-19.72
2779.500	Peak	61.03	-4.08	56.95	74.00	-17.05

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-03-21

Test Frequency :926.5 MHz

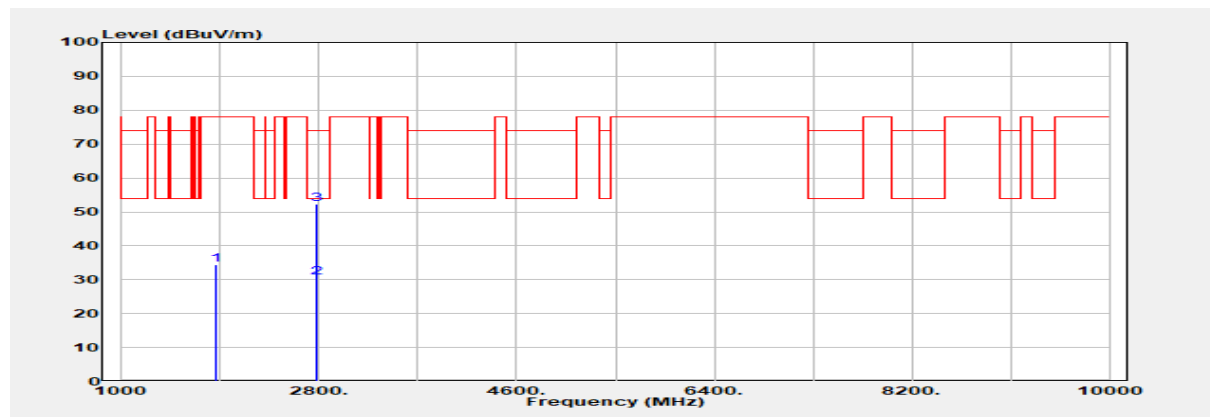
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
1853.000	Peak	42.35	-7.84	34.51	78.11	-43.60
2779.500	Average	34.83	-4.08	30.75	54.00	-23.25
2779.500	Peak	56.34	-4.08	52.26	74.00	-21.74

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-21

Test Frequency :905 MHz

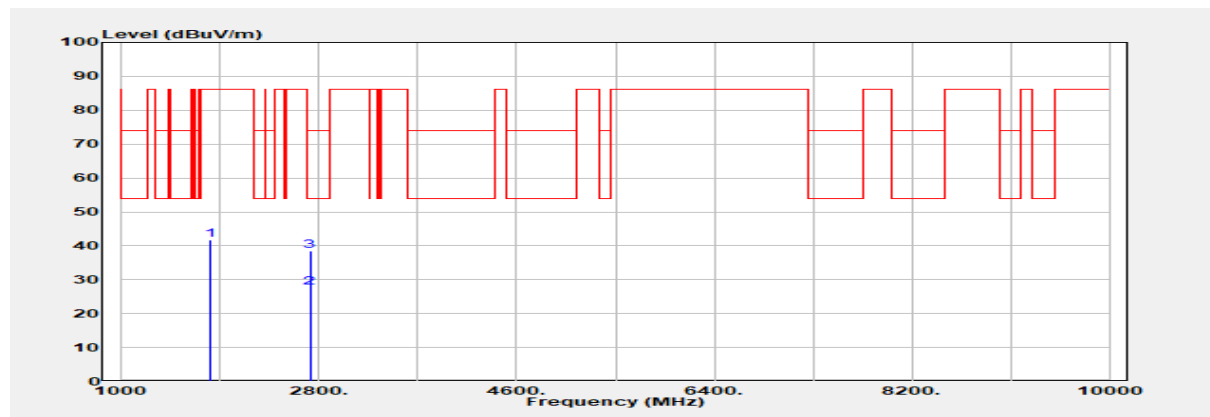
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1810.000	Peak	49.77	-7.90	41.86	86.28	-44.42
2715.000	Average	31.35	-3.68	27.67	54.00	-26.33
2715.000	Peak	42.24	-3.68	38.56	74.00	-35.44

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-21

Test Frequency :905 MHz

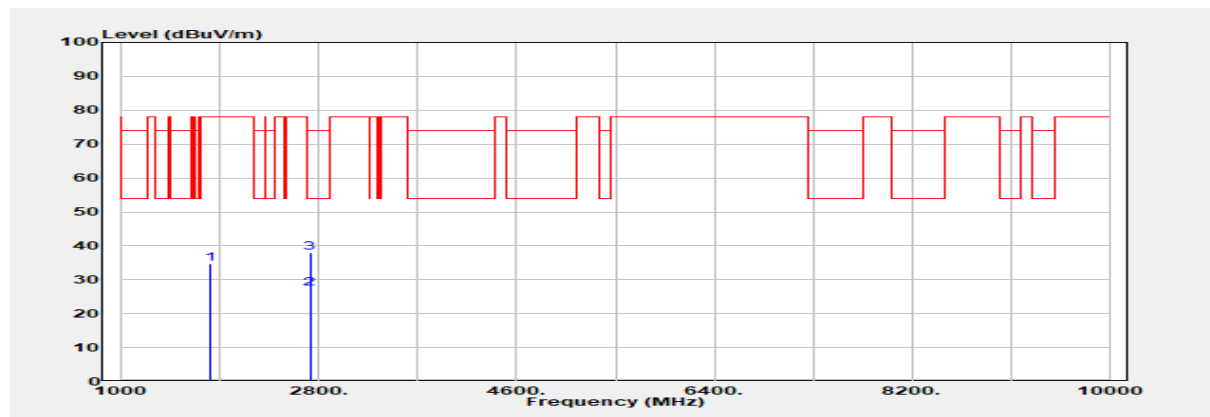
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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	42.60	-7.90	34.70	78.01	-43.31
2715.000	Average	30.98	-3.68	27.30	54.00	-26.70
2715.000	Peak	41.61	-3.68	37.93	74.00	-36.07

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-21

Test Frequency :915 MHz

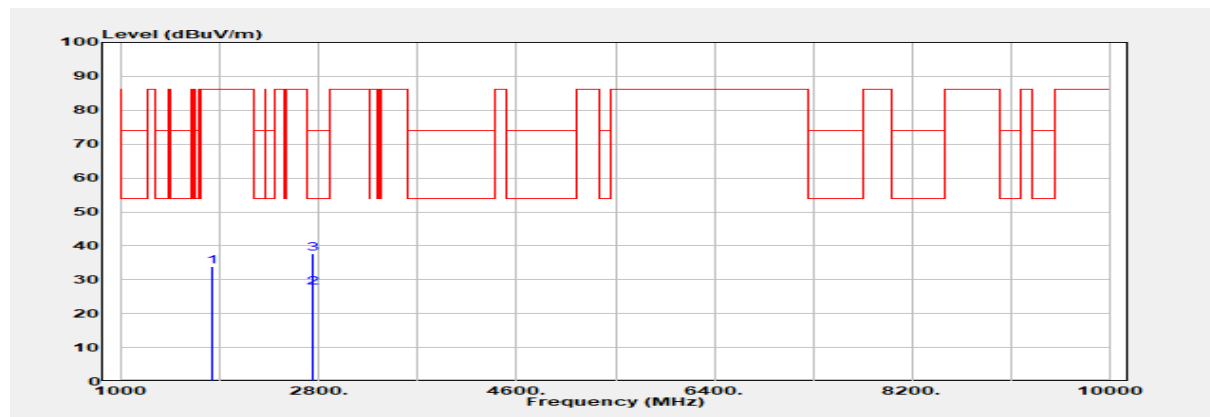
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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	41.86	-7.87	33.99	86.28	-52.29
2745.000	Average	31.52	-3.97	27.55	54.00	-26.45
2745.000	Peak	41.73	-3.97	37.77	74.00	-36.23

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-21

Test Frequency :915 MHz

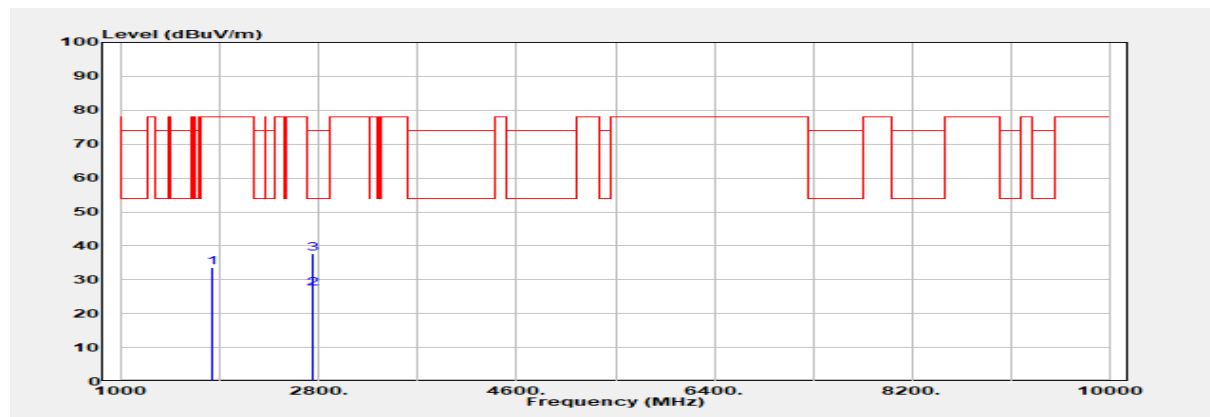
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
1830.000	Peak	41.60	-7.87	33.73	78.01	-44.28
2745.000	Average	31.32	-3.97	27.35	54.00	-26.65
2745.000	Peak	41.60	-3.97	37.63	74.00	-36.37

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-21

Test Frequency :925 MHz

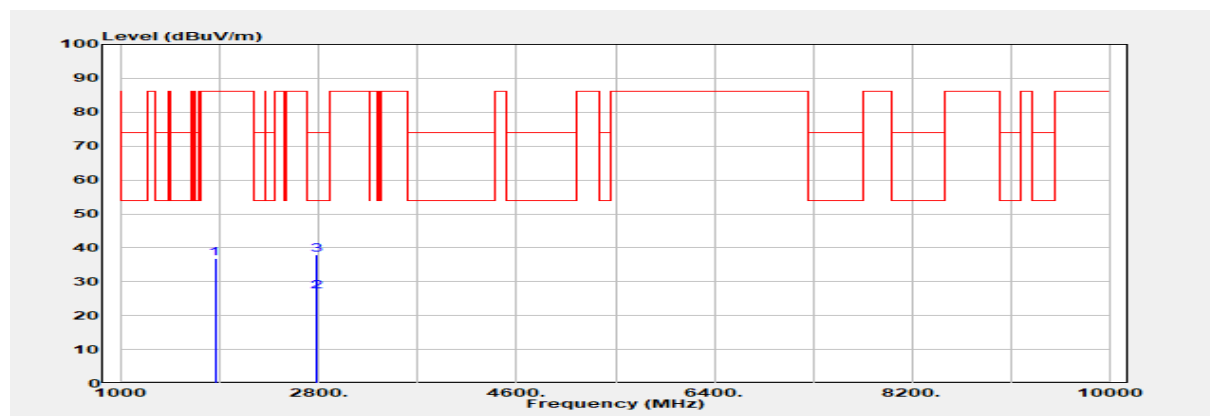
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1850.000	Peak	44.65	-7.84	36.81	86.28	-49.47
2775.000	Average	31.05	-4.07	26.98	54.00	-27.02
2775.000	Peak	41.92	-4.07	37.85	74.00	-36.15

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-03-21

Test Frequency :925 MHz

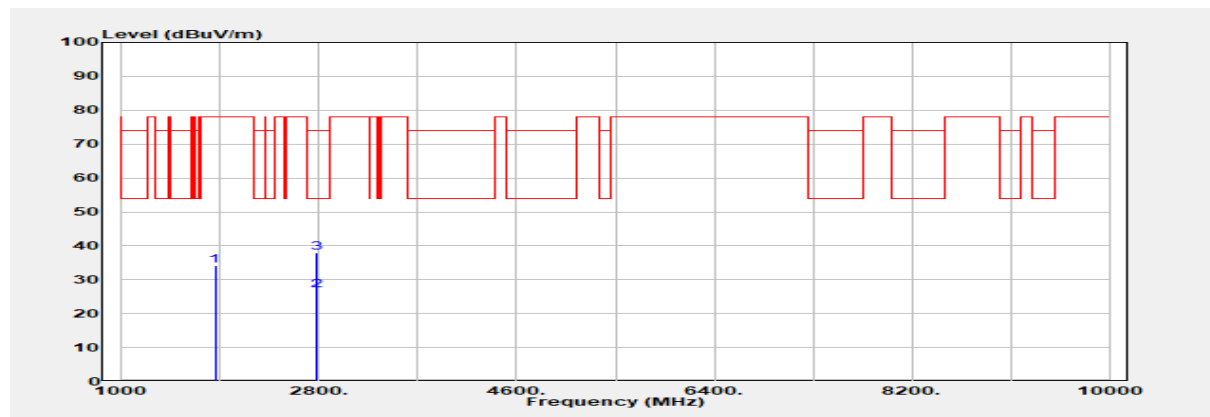
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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	42.10	-7.84	34.26	78.01	-43.75
2775.000	Average	30.96	-4.07	26.89	54.00	-27.11
2775.000	Peak	41.99	-4.07	37.92	74.00	-36.08

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :906 MHz

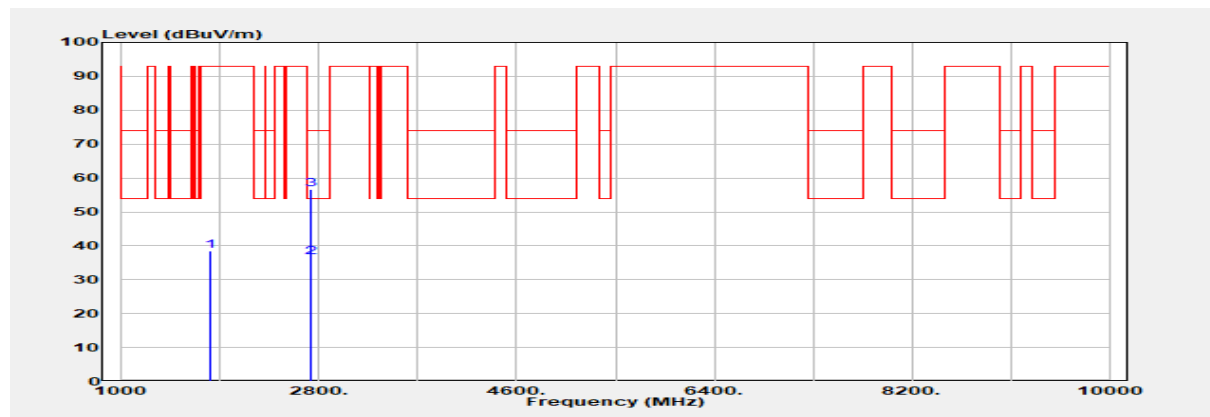
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1812.000	Peak	46.44	-7.90	38.54	92.87	-54.33
2718.000	Average	40.42	-3.71	36.71	54.00	-17.29
2718.000	Peak	60.28	-3.71	56.57	74.00	-17.43

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :906 MHz

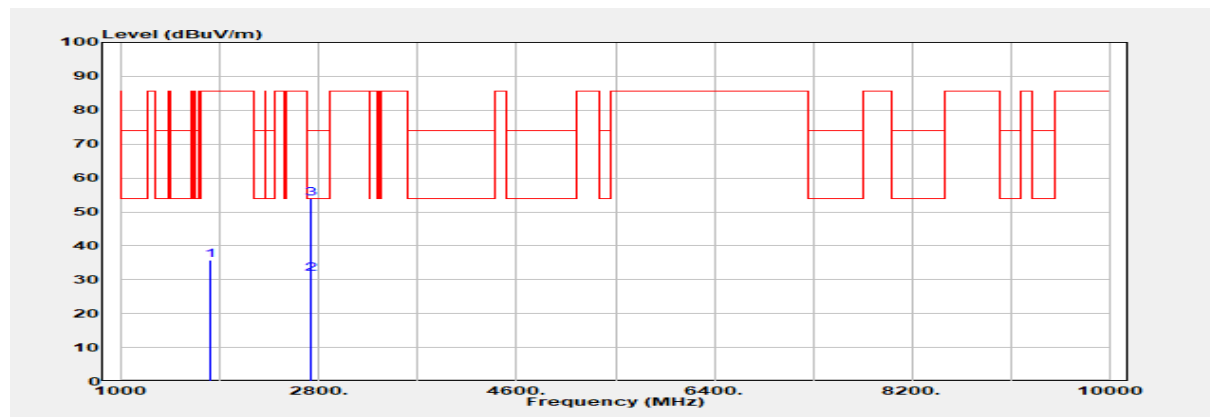
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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	43.64	-7.90	35.74	85.56	-49.82
2718.000	Average	35.51	-3.71	31.80	54.00	-22.20
2718.000	Peak	57.67	-3.71	53.96	74.00	-20.04

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :914 MHz

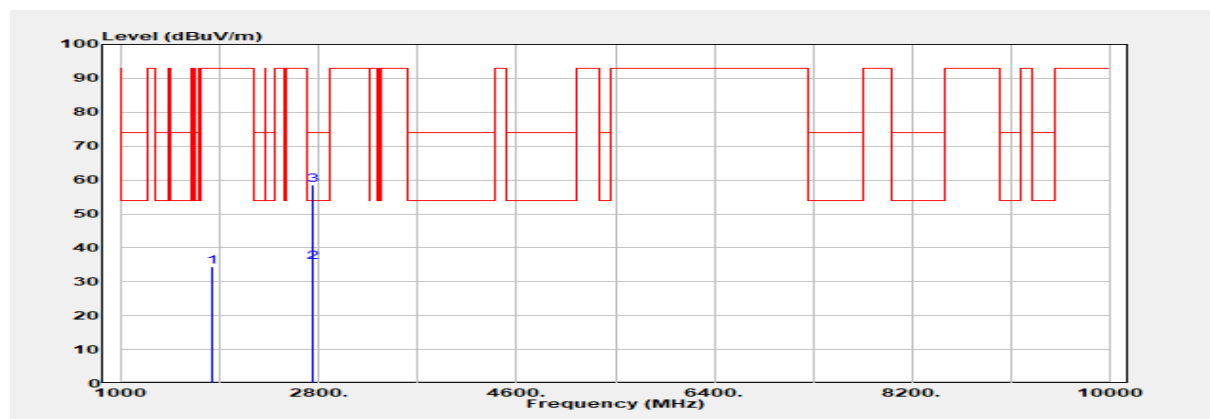
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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	42.34	-7.87	34.47	92.87	-58.40
2742.000	Average	39.75	-3.94	35.81	54.00	-18.19
2742.000	Peak	62.53	-3.94	58.59	74.00	-15.41

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :914 MHz

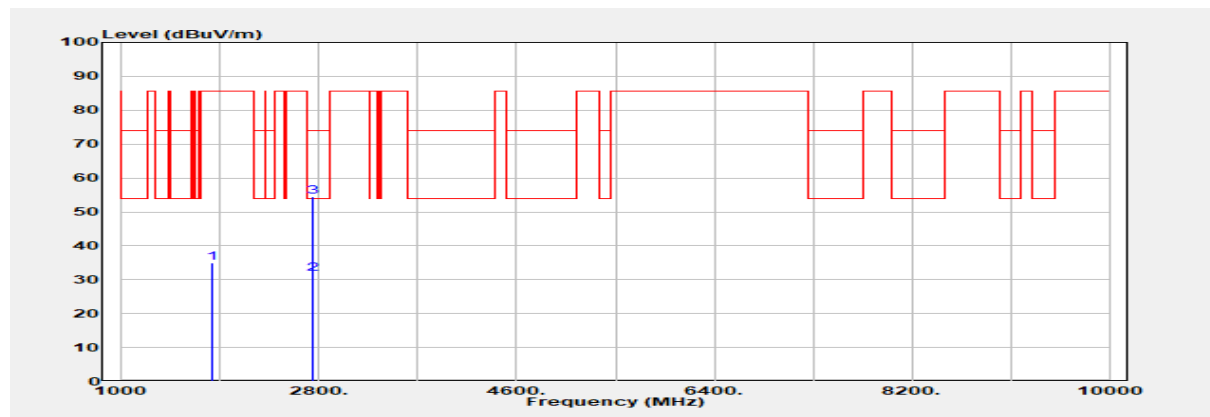
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
1828.000	Peak	42.91	-7.87	35.04	85.56	-50.52
2742.000	Average	35.54	-3.94	31.60	54.00	-22.40
2742.000	Peak	58.28	-3.94	54.34	74.00	-19.66

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :922 MHz

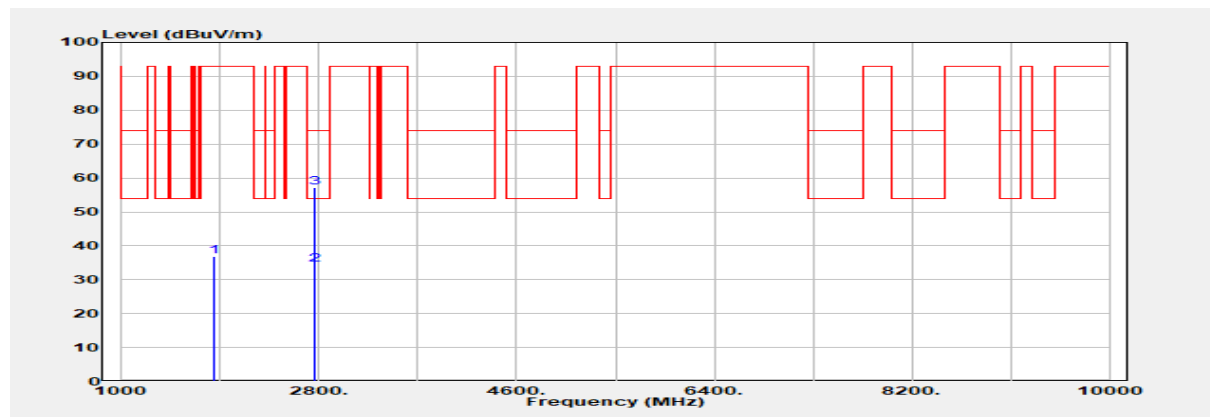
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1844.000	Peak	44.73	-7.85	36.88	92.87	-55.99
2766.000	Average	38.36	-4.05	34.31	54.00	-19.69
2766.000	Peak	61.15	-4.05	57.10	74.00	-16.90

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :922 MHz

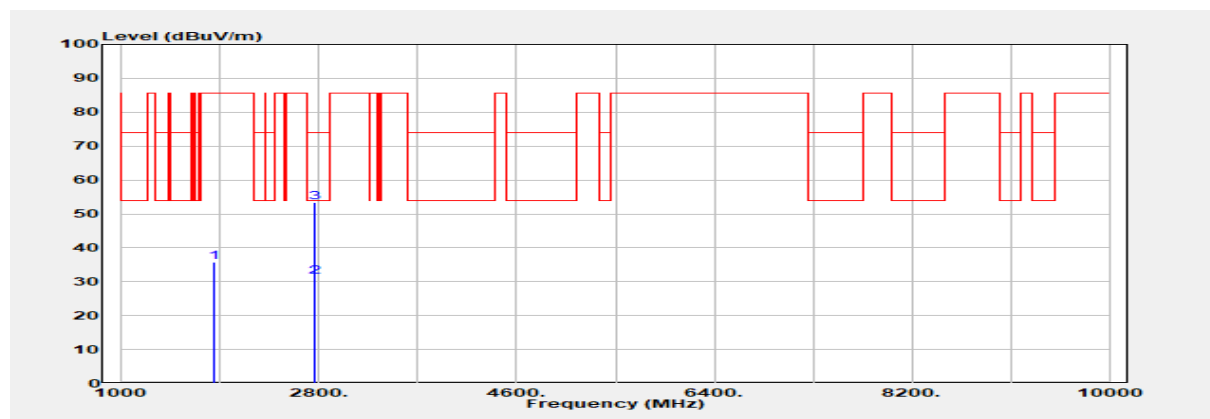
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1844.000	Peak	43.56	-7.85	35.71	85.56	-49.85
2766.000	Average	35.52	-4.05	31.47	54.00	-22.53
2766.000	Peak	57.33	-4.05	53.27	74.00	-20.73

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :926 MHz

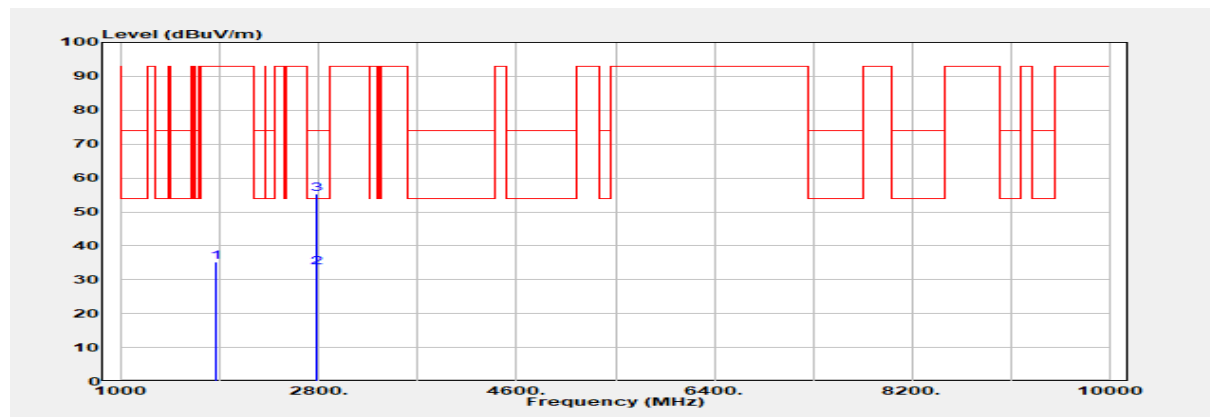
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1852.000	Peak	42.96	-7.84	35.12	92.87	-57.75
2778.000	Average	37.65	-4.08	33.57	54.00	-20.43
2778.000	Peak	59.37	-4.08	55.29	74.00	-18.71

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-03-21

Test Frequency :926 MHz

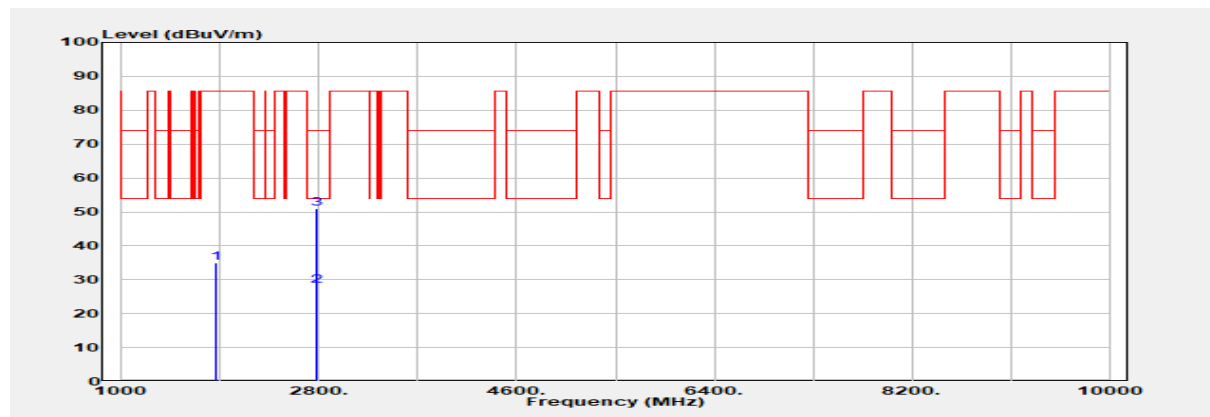
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
1852.000	Peak	42.68	-7.84	34.84	85.56	-50.72
2778.000	Average	32.30	-4.08	28.22	54.00	-25.78
2778.000	Peak	55.13	-4.08	51.05	74.00	-22.95

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-21

Test Frequency :908 MHz

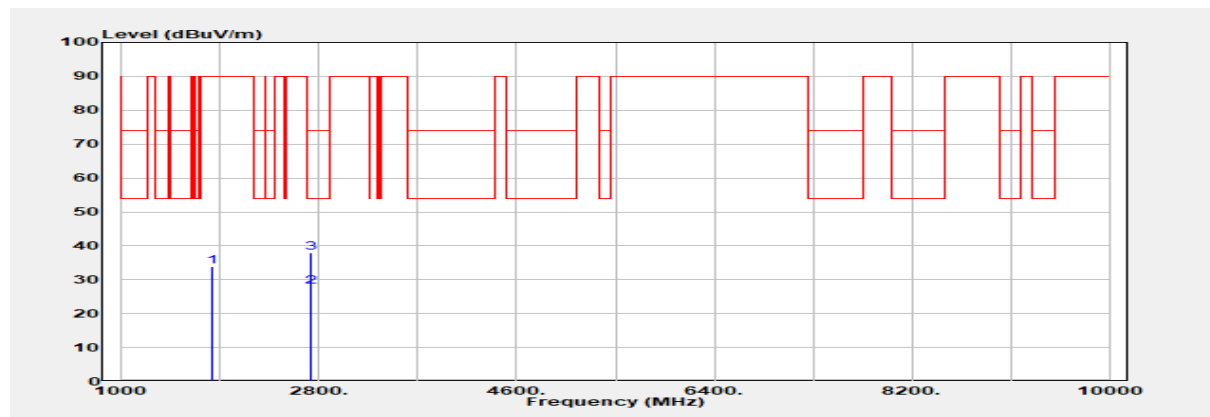
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1816.000	Peak	41.89	-7.89	33.99	89.86	-55.87
2724.000	Average	31.60	-3.77	27.83	54.00	-26.17
2724.000	Peak	41.76	-3.77	37.99	74.00	-36.01

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-21

Test Frequency :908 MHz

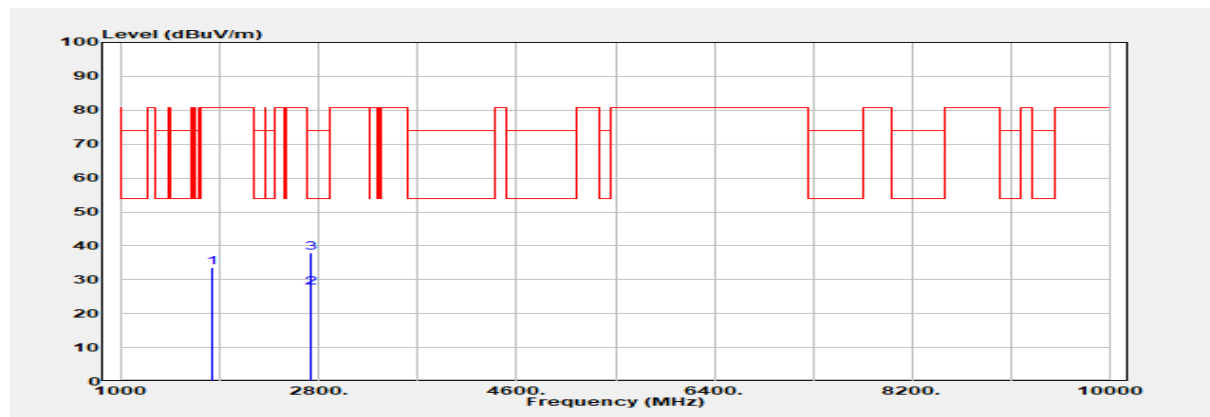
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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	41.54	-7.89	33.64	80.86	-47.22
2724.000	Average	31.35	-3.77	27.58	54.00	-26.42
2724.000	Peak	41.58	-3.77	37.82	74.00	-36.18

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-21

Test Frequency :916 MHz

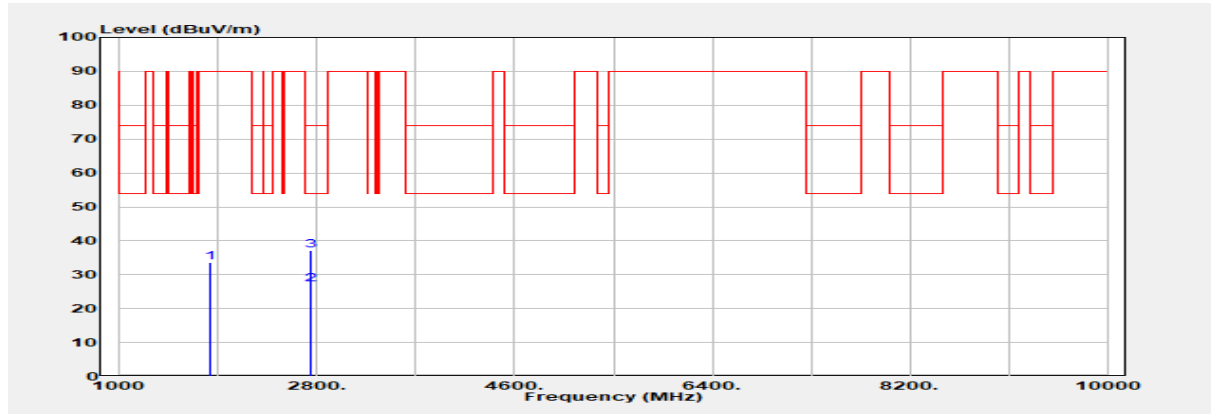
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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
1832.000	Peak	41.48	-7.87	33.61	89.86	-56.25
2748.000	Average	31.20	-4.00	27.20	54.00	-26.80
2748.000	Peak	41.25	-4.00	37.25	74.00	-36.75

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-21

Test Frequency :916 MHz

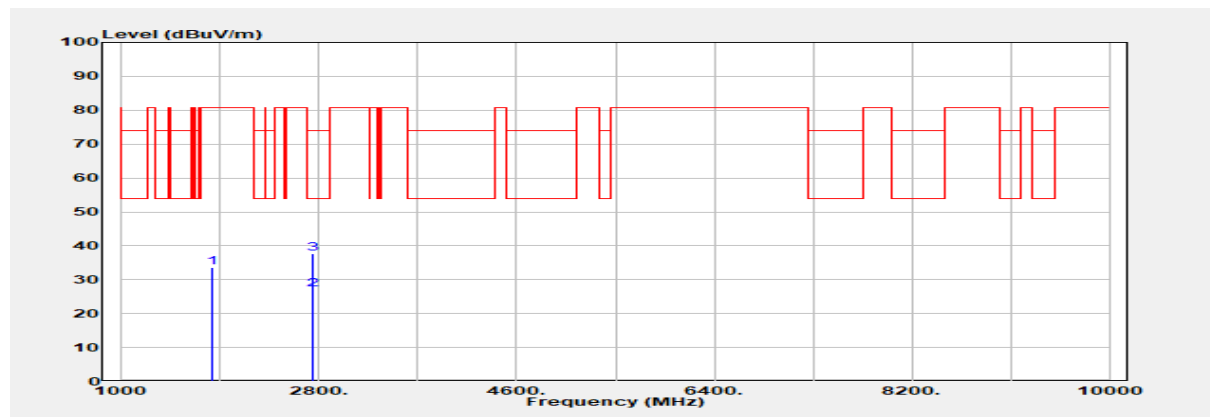
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
1832.000	Peak	41.60	-7.87	33.73	80.86	-47.13
2748.000	Average	31.22	-4.00	27.23	54.00	-26.77
2748.000	Peak	41.73	-4.00	37.73	74.00	-36.27

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Report Number :TERF2403000636E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-03-21

Test Frequency :924 MHz

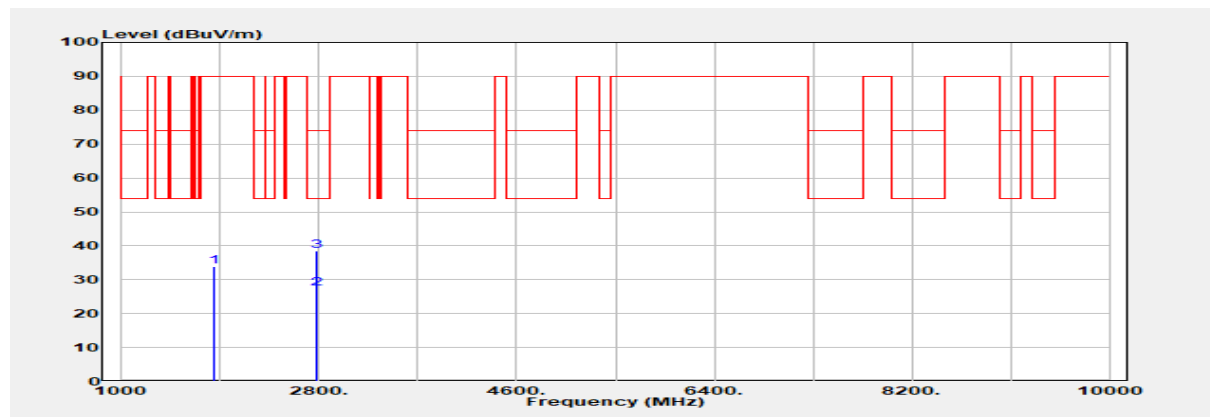
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



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	41.81	-7.84	33.96	89.86	-55.90
2772.000	Average	31.34	-4.07	27.28	54.00	-26.72
2772.000	Peak	42.61	-4.07	38.54	74.00	-35.46

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Test Date :2024-03-21

Test Frequency :924 MHz

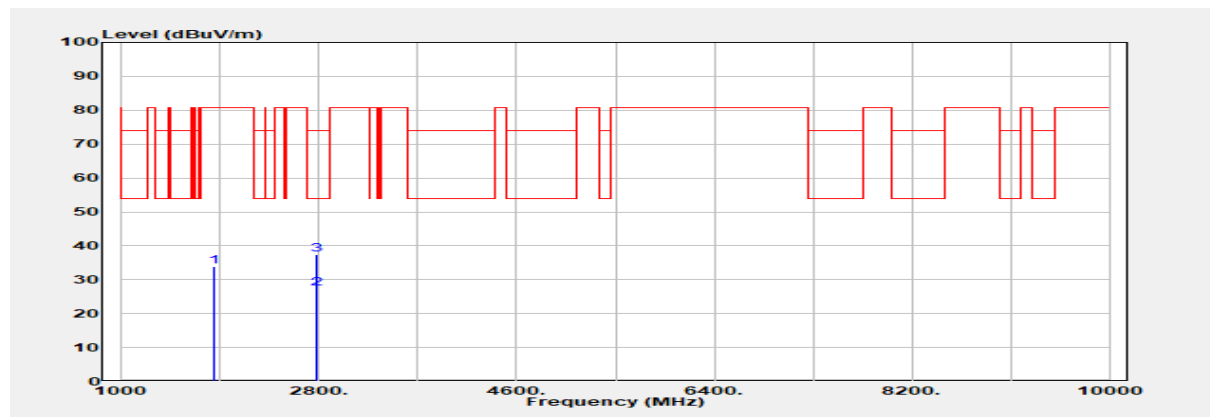
Temp./Humi. :23.3°C/47%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



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
1848.000	Peak	41.76	-7.84	33.92	80.86	-46.94
2772.000	Average	31.37	-4.07	27.31	54.00	-26.69
2772.000	Peak	41.40	-4.07	37.33	74.00	-36.67

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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