

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: MegaChips Corporation
1-1-1, Miyahara, Yodogawa-ku, Osaka, 532-0003, Japan
Manufacturer: MegaChips Corporation
1-1-1, Miyahara, Yodogawa-ku, Osaka, 532-0003, Japan
Product Name: MRF61_FI
Brand Name: MegaChips Corporation
Model No.: MFIM0002
ISED HVIN:
ISED PMN: MFIM0002
Report Number: TERF2404001148E2
FCC ID 2AGYI-WM0021
IC: 29836-WM0021
Date of EUT Received: April 23, 2024
Date of Test: April 23, 2024 ~ June 21, 2024
Issue Date: March 11, 2025

Approved By

Jay Lin

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, ISED RSS-Gen and RSS-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
TERF2404001148E2	00	Original	June 25, 2024	Yami Kuo	
TERF2404001148E2	01	Revise product name and model No.	December 31, 2024	Yami Kuo	*
TERF2404001148E2	02	Revise antenna information	March 7, 2025	Karen Huang	*
TERF2404001148E2	03	Revise section 2.8 information	March 11, 2025	Karen Huang	*

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:	MRF61_FI
Brand Name:	MegaChips Corporation
Model No.: ISED HVIN:	MFIM0002
Hardware Version:	V_13
Firmware Version: FVIN:	V1_7_2
EUT Series No.:	M01-0000001
Power Supply:	3.3Vdc
Test Software (Name/Version)	CMD

1.2 RF Specification

Radio Technology:	802.11ah
Frequency Range:	902 – 928MHz
Modulation type:	OFDM
Transmit Power:	802.11ah 1M: 25.79 dBm (Peak) 802.11ah 2M: 25.75 dBm (Peak) 802.11ah 4M: 25.77 dBm (Peak) 802.11ah 8M: 26.18 dBm (Peak)

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Chip	KYOCERA AVX	P822603	902-928	0.7
	Johanson Technology	0915AT43A0026001E		-1.0
Dipole	Pulse Electronics	W1063		1.0
Monopole	TE Connectivity Linx	ANT-916-CW-RCS		4.8
	molex	1052620002		1.5
	molex	2111400100		1.0
	molex	1052620001		1.6

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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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

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion 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 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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.

2.3.3 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.

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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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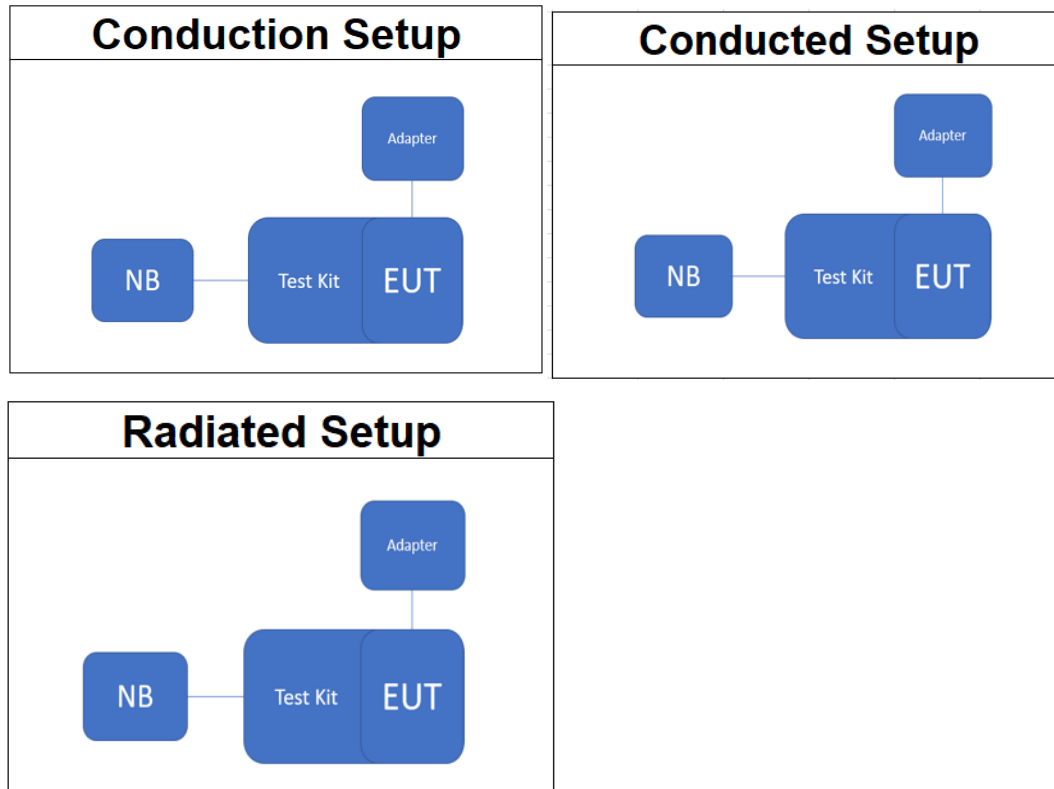
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Adapter	KSY	UU318-0530	M10-0634496	N/A	N/A
Test kit	N/A	N/A	N/A	N/A	N/A
LAN Cable	N/A	N/A	N/A	N/A	N/A

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A
Adapter	KSY	UU318-0530	M10-0634496	N/A	N/A
Test kit	N/A	N/A	N/A	N/A	N/A
LAN Cable	N/A	N/A	N/A	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	KSY	UU318-0530	M10-0634496	N/A	N/A
Notebook	Lenovo	L480	P0002332	N/A	N/A
Test kit	N/A	N/A	N/A	N/A	N/A
LAN Cable	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203	N/A	Antenna Requirement	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. The given UE is pre-scanned among below modes.

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	906,914,926	OFDM	MCS0
802.11ah 8M	902 to 928	908,916,924	OFDM	MCS0
TRANSMIT 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

TRANSMIT 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	906.914,926	OFDM	MCS0
802.11ah 8M	902 to 928	908,916,924	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
	+/-	4.15	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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/30/2024	04/29/2025
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/22/2024	04/21/2025
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Woken	WATT-218FS-10	RF23	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF24	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF158	11/15/2023	11/14/2024
Power Meter	Anritsu	ML2496A	1512003	09/08/2023	09/07/2024
Power Sensor	Anritsu	MA2411B	1339378	09/08/2023	09/07/2024
Power Sensor	Anritsu	MA2411B	1339379	09/08/2023	09/07/2024
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/20/2023	06/19/2024
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/17/2024	06/16/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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6.3 Radiated Measurement

Chip 、Monopole

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	1187	01/24/2024	01/23/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/03/2024	04/02/2025
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

Dipole

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	1187	01/24/2024	01/23/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
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: No Calibration Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

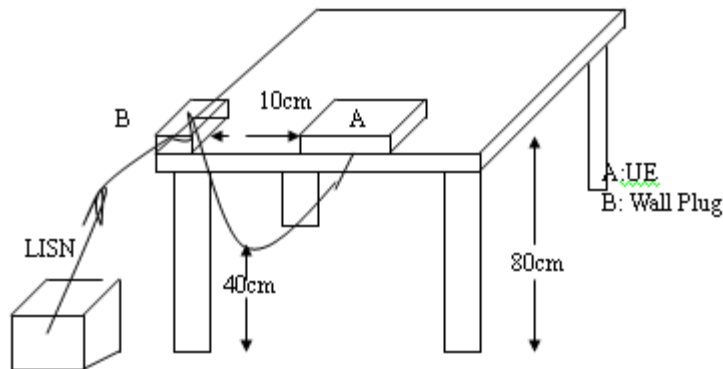
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2404001148E2

Test Site :Conduction C

Test Mode :802.11ah

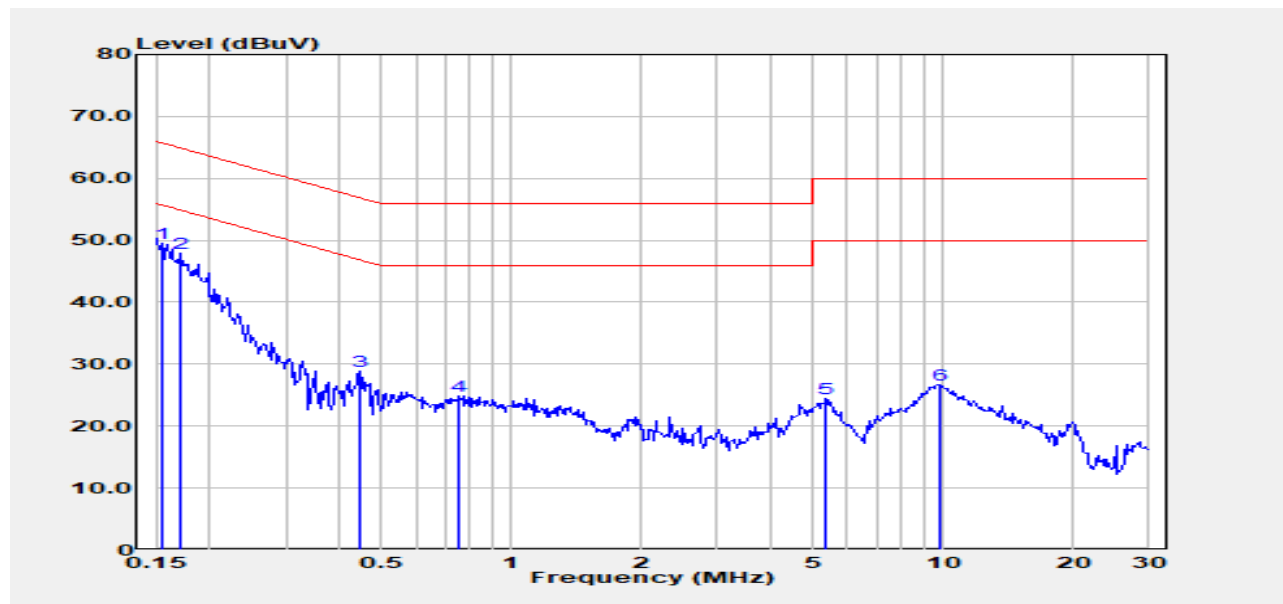
Test Date :2024-05-07

Power :120V/60Hz

Temp./Humi. :23.0°C/52%

Probe :L1

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Peak	38.96	10.65	49.61	65.72	-16.11
0.172	Peak	37.23	10.65	47.88	64.87	-17.00
0.445	Peak	18.20	10.62	28.82	56.97	-28.15
0.759	Peak	14.20	10.66	24.86	56.00	-31.14
5.352	Peak	13.57	10.95	24.52	60.00	-35.48
9.864	Peak	15.79	10.96	26.75	60.00	-33.25

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Report Number :TERF2404001148E2

Test Site :Conduction C

Test Mode :802.11ah

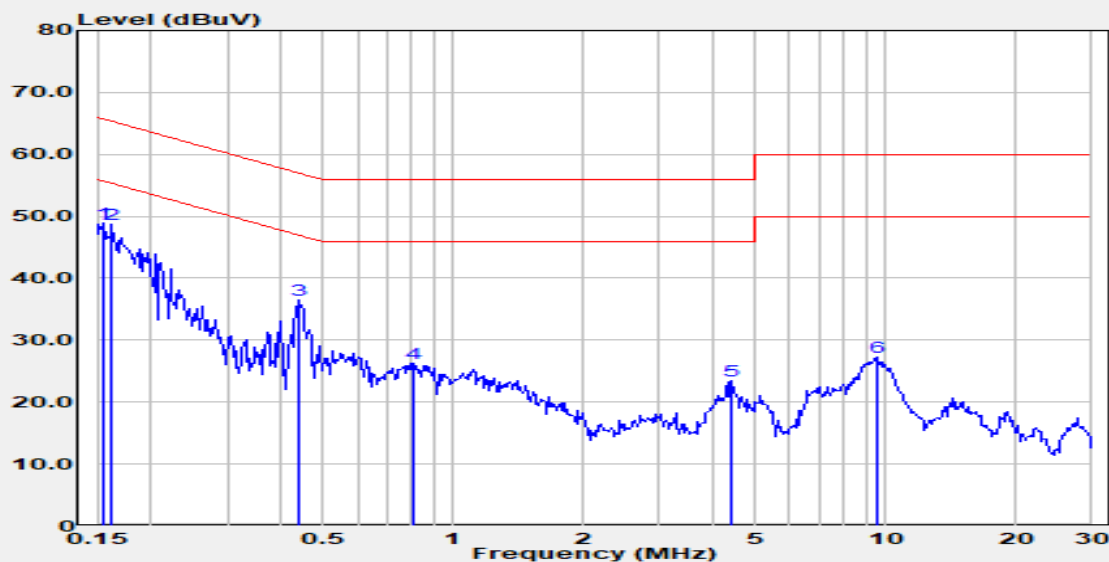
Test Date :2024-05-07

Power :120V/60Hz

Temp./Humi. :23.0°C/52%

Probe :N

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Peak	38.29	10.66	48.95	65.72	-16.77
0.162	Peak	37.97	10.66	48.63	65.37	-16.74
0.437	Peak	25.95	10.61	36.56	57.11	-20.56
0.813	Peak	15.60	10.65	26.25	56.00	-29.75
4.403	Peak	12.63	10.90	23.54	56.00	-32.46
9.616	Peak	16.40	10.95	27.35	60.00	-32.65

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 FCC

For systems using digital modulation in the 902-928 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi. (FCC only)

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.1.2 ISED

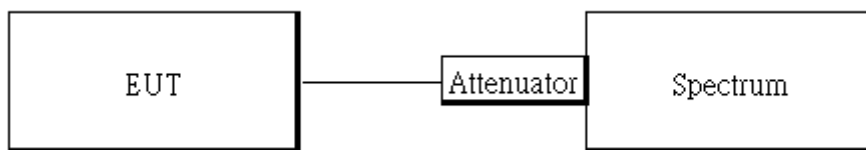
For systems using digital modulation in the 902-928 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

Note:

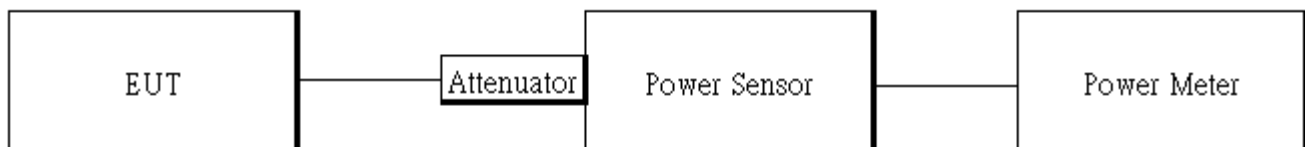
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



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8.3 Measurement Procedure:

8.3.1 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

8.4 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

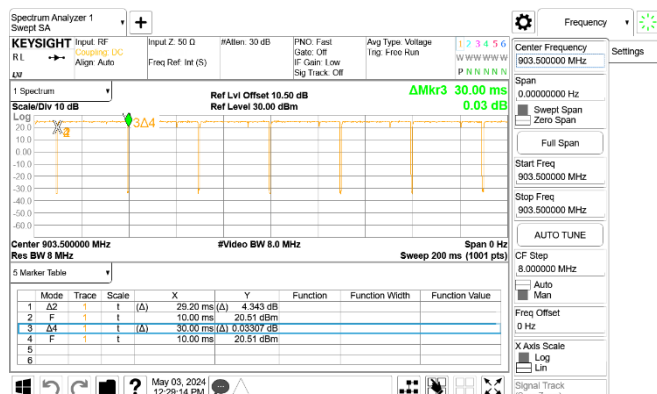
8.5 Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
OFDM_1M	97.33	0.12	0.03	1.00
OFDM_2M	92.64	0.33	0.08	1.00
OFDM_4M	86.11	0.65	0.16	1.00
OFDM_8M	78.94	1.03	0.33	1.00

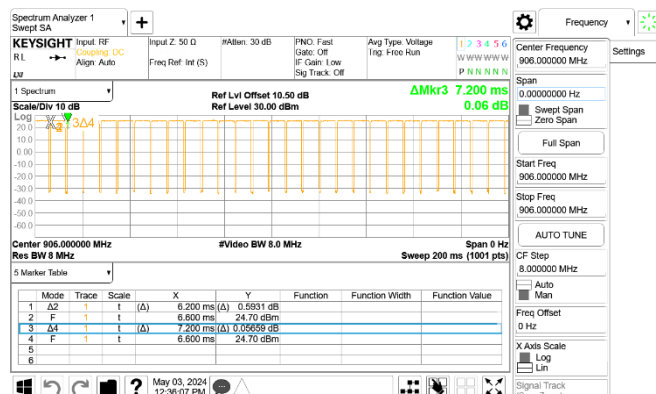
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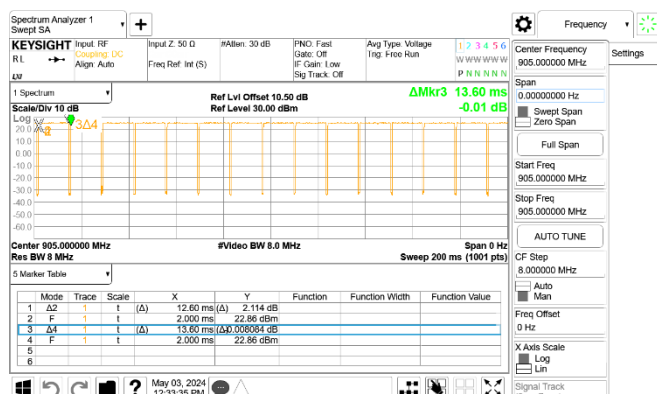
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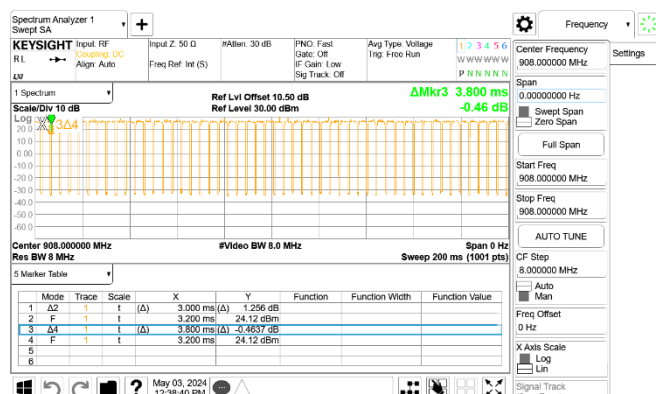
OFDM_4M_LowCH-906



OFDM_2M_LowCH-905



OFDM_8M_LowCH-908



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8.6 Output Power:

8.6.1 Peak & Avg

OFDM 1M mode

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
Low	903.5	1	25.44	30
Mid	914.5	1	25.79	30
High	926.5	1	25.68	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	903.5	1	19.75	30
Mid	914.5	1	19.97	30
High	926.5	1	19.93	30

**Note:*

1. Measured by power meter, cable loss 10.5 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)
Low	905	1	25.61	30
Mid	915	1	25.75	30
High	925	1	25.66	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	905	1	19.88	30
Mid	915	1	19.95	30
High	925	1	19.91	30

**Note:*

1. Measured by power meter, cable loss 10.5 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)
Low	906	0	25.37	30
Mid	914	0	25.57	30
High	926	0	25.77	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	906	0	19.62	30
Mid	914	0	19.82	30
High	926	0	19.90	30

**Note:*

1. Measured by power meter, cable loss 10.5 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)
Low	908	1	25.89	30
Mid	916	1	26.16	30
High	924	1	26.18	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	908	1	19.62	30
Mid	916	1	19.92	30
High	924	1	19.98	30

**Note:*

1. Measured by power meter, cable loss 10.5 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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8.6.2 EIRP

EIRP OFDM 1M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	903.5	1	19.75	4.80	24.55	4W= 36 dBm
Mid	914.5	1	19.97	4.80	24.77	4W= 36 dBm
High	926.5	1	19.93	4.80	24.73	4W= 36 dBm

*Note: EIRP = Average Power + Gain

EIRP OFDM 2M mode

CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	905	1	19.88	4.80	24.68	4W= 36 dBm
Mid	915	1	19.95	4.80	24.75	4W= 36 dBm
High	925	1	19.91	4.80	24.71	4W= 36 dBm

*Note: EIRP = Average Power + Gain

EIRP OFDM 4M mode

CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	906	0	19.62	4.80	24.42	4W= 36 dBm
Mid	914	0	19.82	4.80	24.62	4W= 36 dBm
High	926	0	19.90	4.80	24.70	4W= 36 dBm

*Note: EIRP = Average Power + Gain

EIRP OFDM 8M mode

CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	908	1	19.62	4.80	24.42	4W= 36 dBm
Mid	916	1	19.92	4.80	24.72	4W= 36 dBm
High	924	1	19.98	4.80	24.78	4W= 36 dBm

*Note: EIRP = Average Power + Gain

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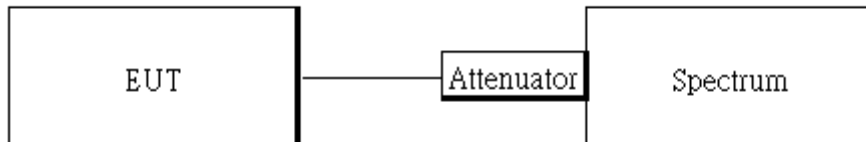
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz .

9.2 Test Setup



9.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 6dB BW measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
RBW= 100 kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

9.3.2 99% BW measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
2. Set the spectrum analyzer as
RBW= 1 % to 5% of 99%,
VBW \geq 3 X RBW,
Span= large enough to capture all products of the modulation process
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of 99%.
4. Repeat above procedures until all test default channel is completed.

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9.4 Measurement Result:

9.4.1 6dB BW measurements

OFDM 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
903.5	0.8114	≥ 0.5	PASS
914.5	0.8264	≥ 0.5	PASS
926.5	0.8121	≥ 0.5	PASS

OFDM 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
905	1.7270	≥ 0.5	PASS
915	1.7080	≥ 0.5	PASS
925	1.7300	≥ 0.5	PASS

OFDM 4M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
906	3.5760	≥ 0.5	PASS
914	3.5920	≥ 0.5	PASS
926	3.5950	≥ 0.5	PASS

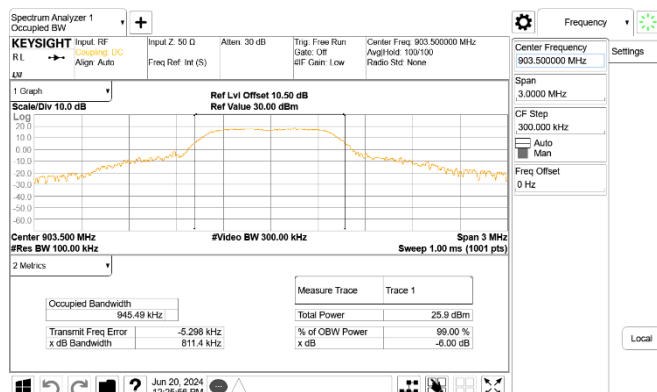
OFDM 8M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
908	7.5750	≥ 0.5	PASS
916	7.5680	≥ 0.5	PASS
924	7.5740	≥ 0.5	PASS

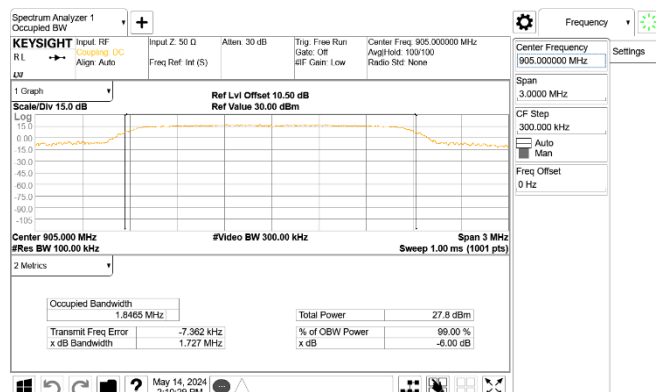
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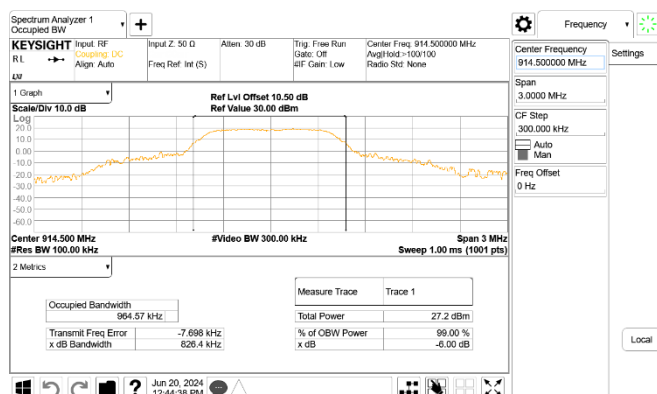
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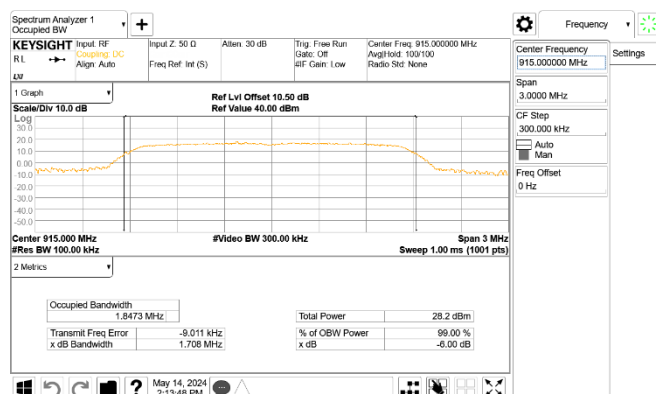
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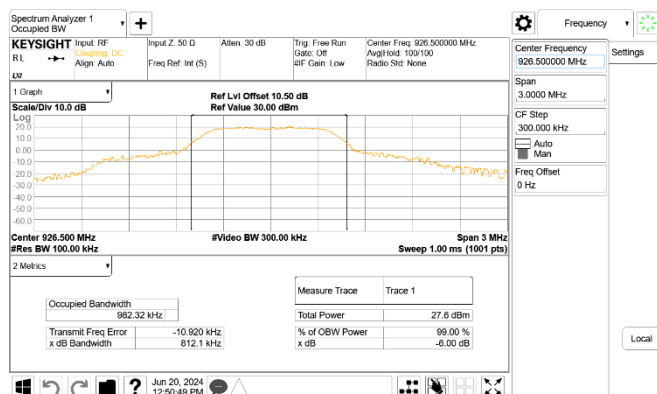
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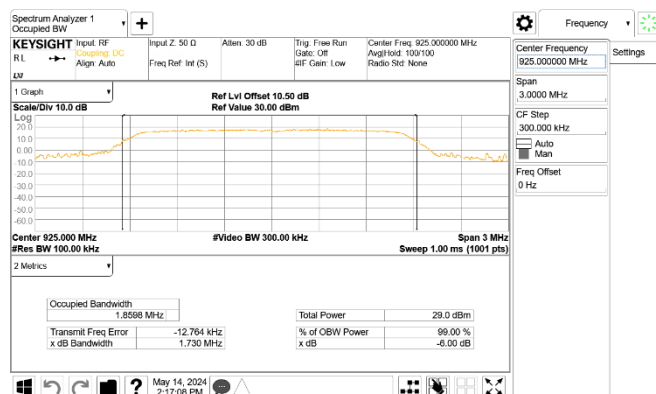
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OFDM_1M_HighCH-926.5



OFDM_2M_HighCH-925



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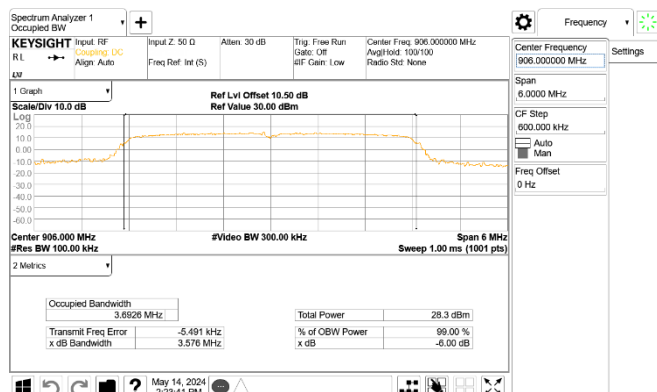
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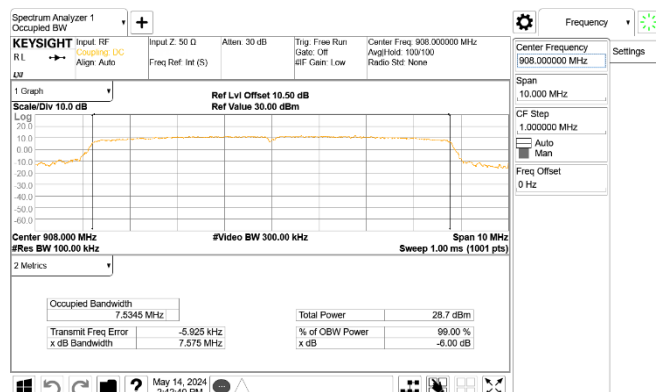
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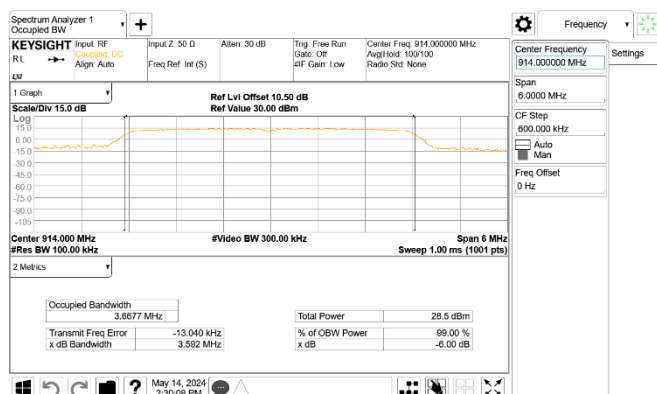
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OFDM_8M_LowCH-908



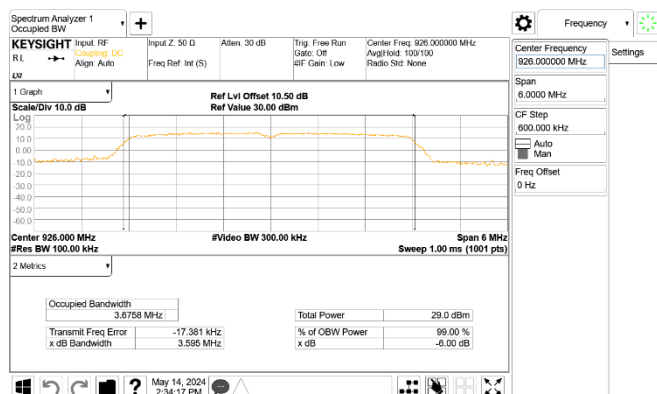
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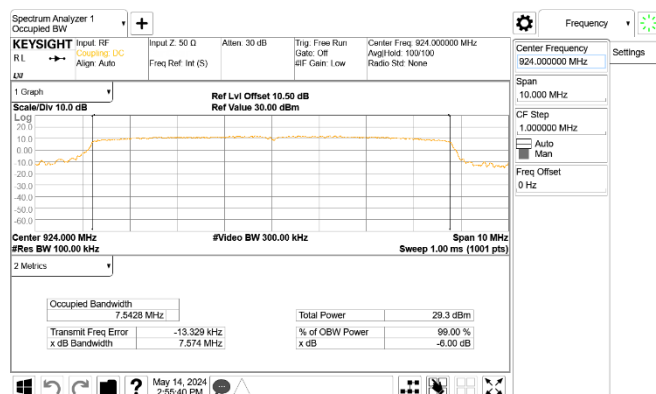
OFDM_8M_MidCH-916



OFDM_4M_HighCH-926



OFDM_8M_HighCH-924



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9.4.2 99% Bandwidth

OFDM 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
903.5	0.86271
914.5	0.87211
926.5	0.87293

OFDM 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
905	1.8499
915	1.8552
925	1.8749

OFDM 4M mode

Frequency (MHz)	99%Bandwidth (MHz)
906	3.6926
914	3.6677
926	3.6758

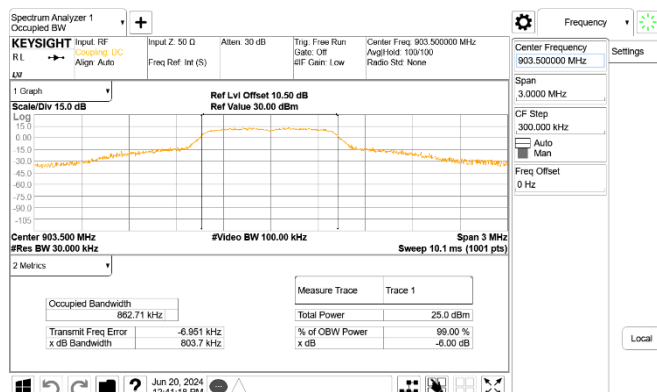
OFDM 8M mode

Frequency (MHz)	99%Bandwidth (MHz)
908	7.5345
916	7.5413
924	7.5428

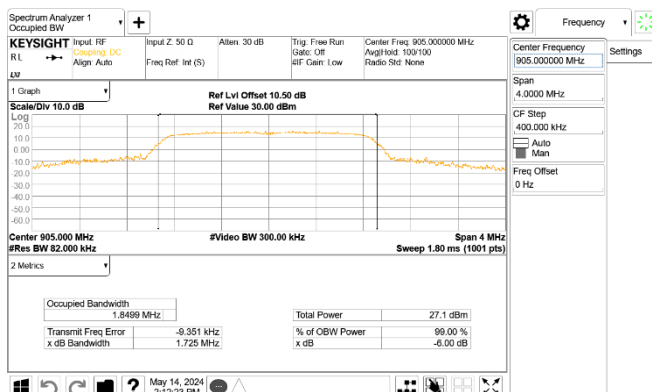
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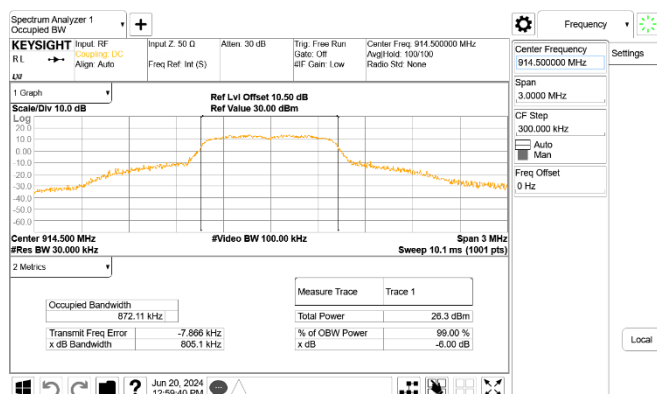
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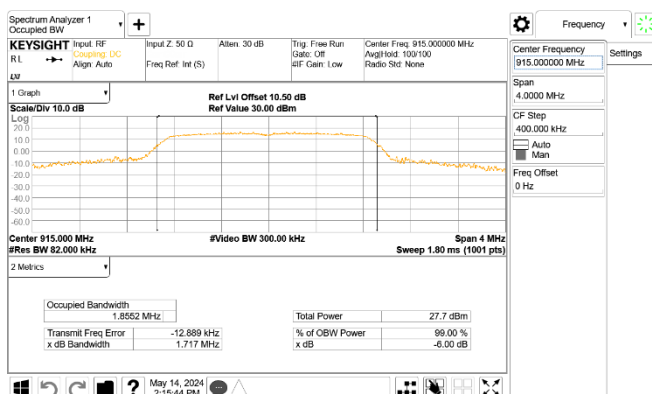
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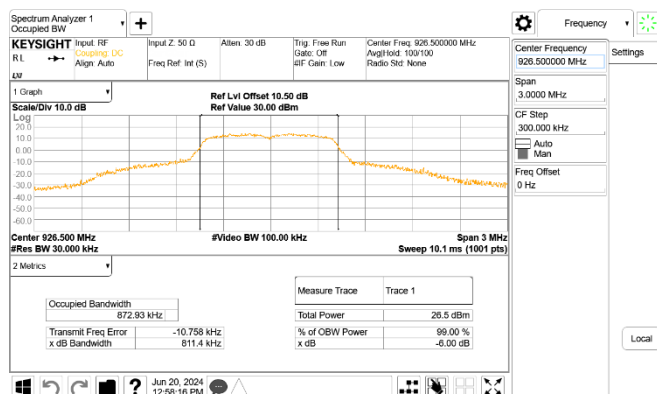
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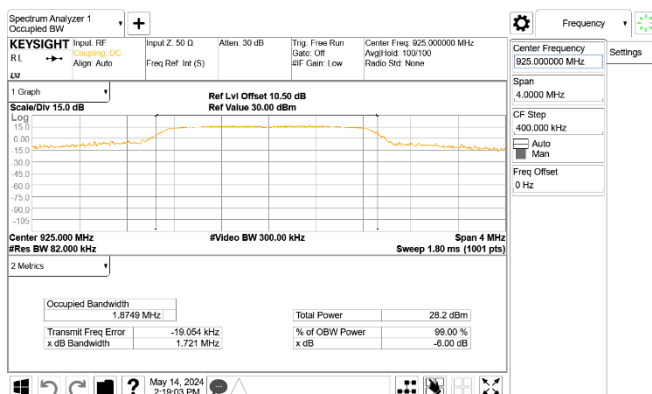
OFDM_2M_MidCH-915



OFDM_1M_HighCH-926.5



OFDM_2M_HighCH-925

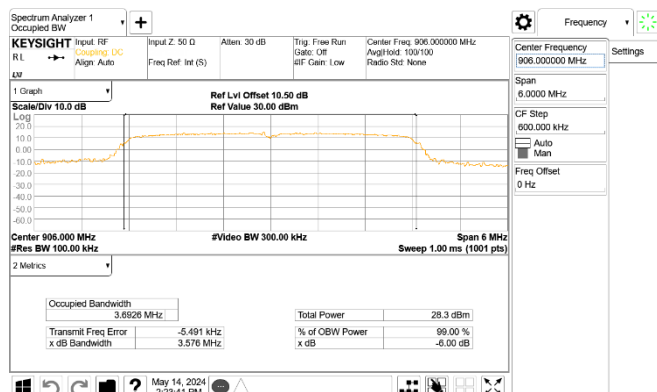


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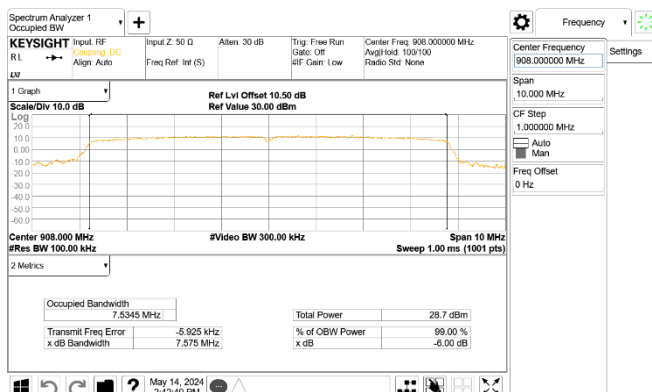
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OFDM_4M_LowCH-906



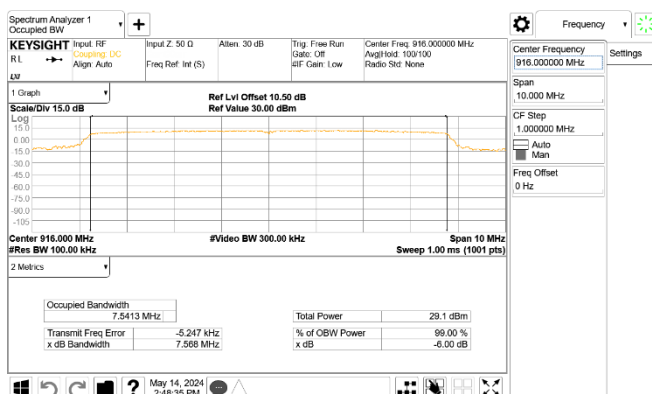
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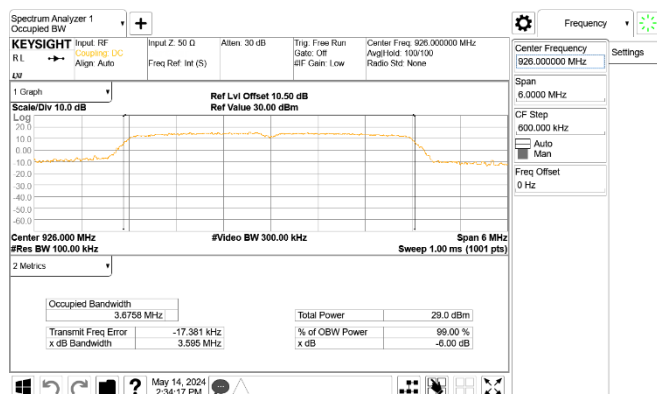
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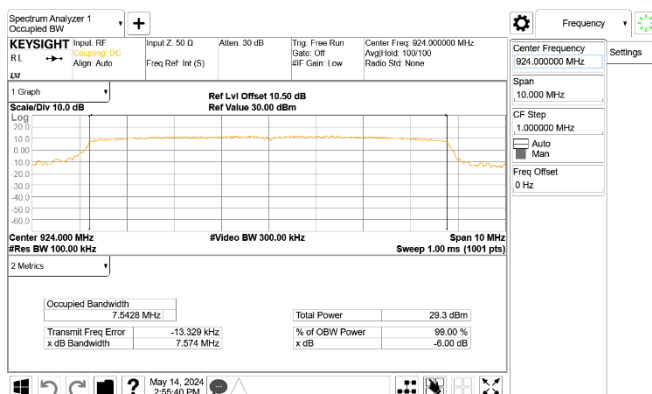
OFDM_8M_MidCH-916



OFDM_4M_HighCH-926



OFDM_8M_HighCH-924



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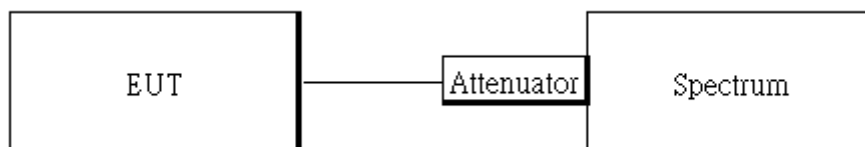
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 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. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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10.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Set DL as the limit =
OFDM 1M reading on marker of reference level measurement – 30dBm
OFDM 2M & 4M & 8M reading on marker of reference level measurement – 20dBm
7. Mark the highest readings of the emissions outside of 902-928 MHz.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

10.3.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

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10.4 Measurement Result

OFDM 1M mode_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 30dB (dBm)
903.5	18.47	-11.53
914.5	19.71	-10.29
926.5	19.99	-10.01

Note:

- 1.cable loss as 10.5dB that offsets in the spectrum
- 2.Refer to next page for plots.

OFDM 2M mode_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
905	17.02	-2.98
915	17.46	-2.54
925	18.39	-1.61

Note:

- 1.cable loss as 10.5dB that offsets in the spectrum
- 2.Refer to next page for plots.

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OFDM 4M mode_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
906	14.71	-5.29
914	15.32	-4.68
926	15.49	-4.51

**Note:*

- 1.cable loss as 10.5dB that offsets in the spectrum
- 2.Refer to next page for plots.

OFDM 8M mode_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
908	12.54	-7.46
916	12.54	-7.46
924	12.46	-7.54

**Note:*

- 1.cable loss as 10.5dB that offsets in the spectrum
- 2.Refer to next page for plots.

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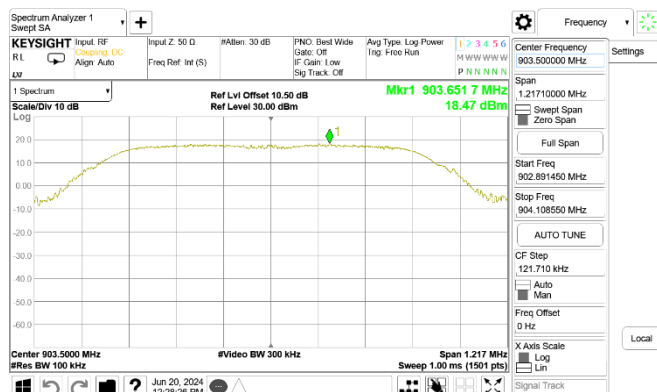
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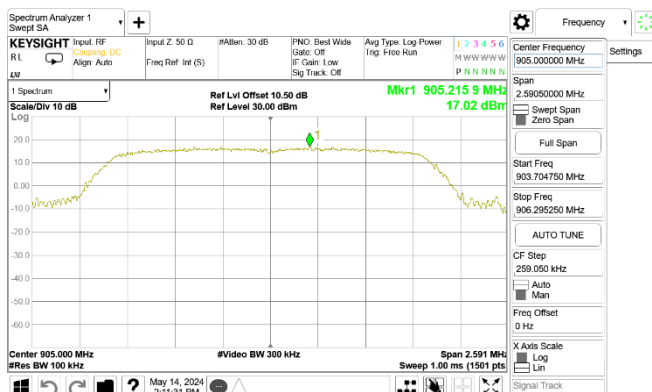
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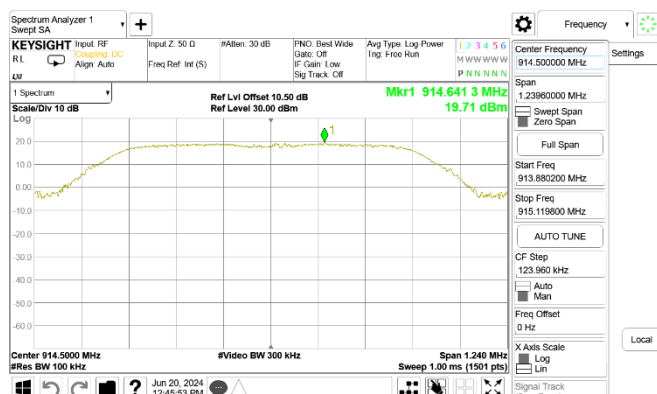
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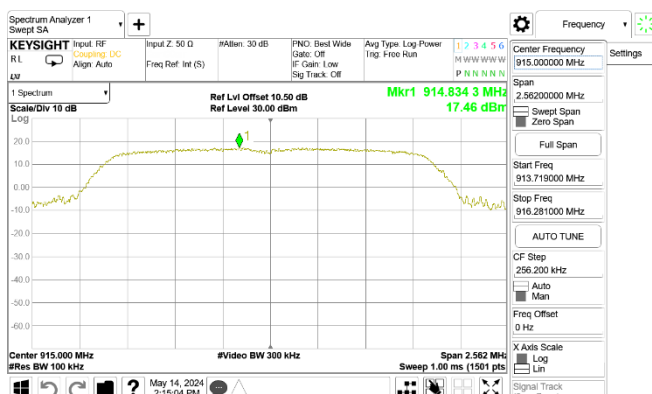
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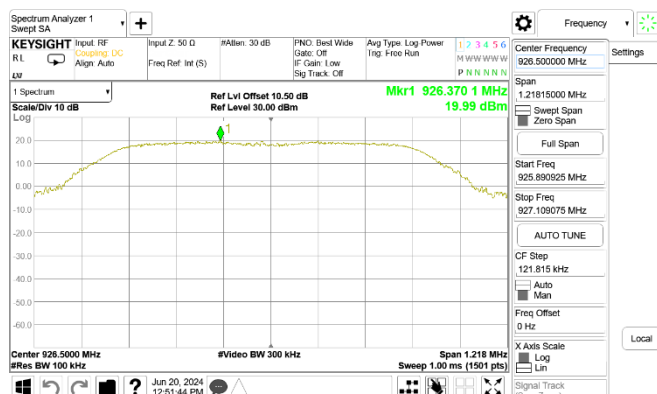
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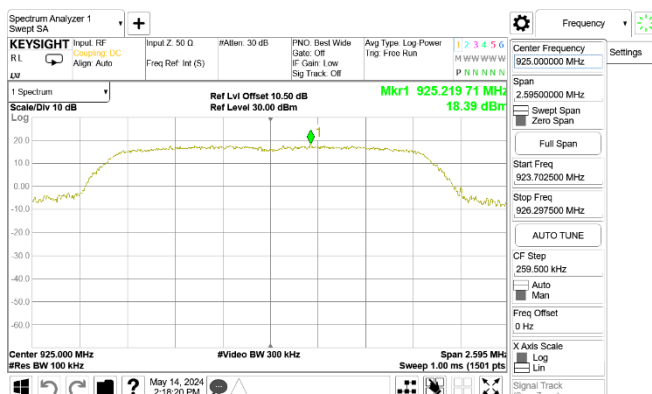
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OFDM_1M_HighCH-926.5



OFDM_2M_HighCH-925



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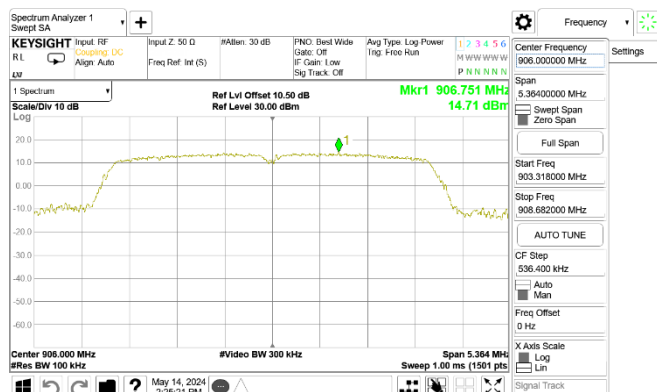
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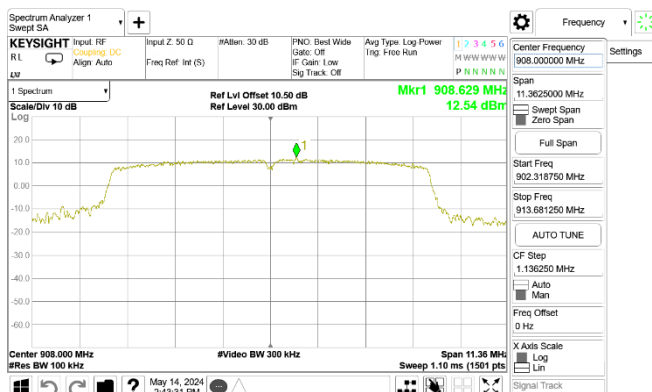
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OFDM_4M_LowCH-906



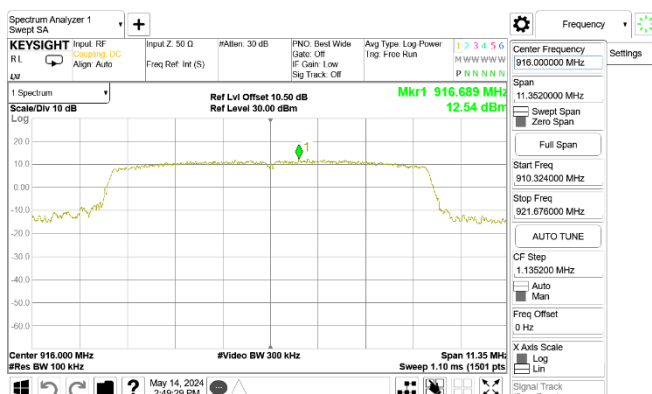
OFDM_8M_LowCH-908



OFDM_4M_MidCH-914



OFDM_8M_MidCH-916



OFDM_4M_HighCH-926



OFDM_8M_HighCH-924



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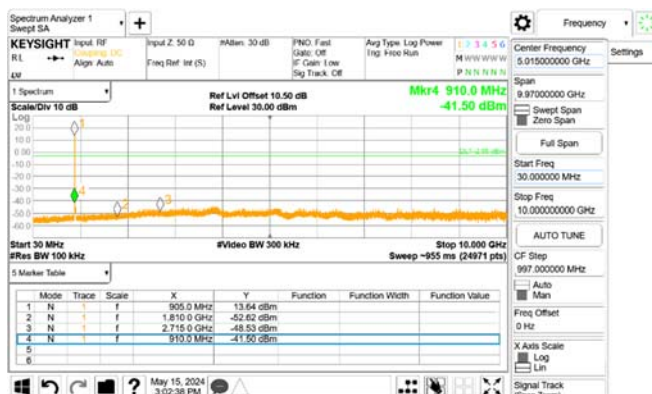
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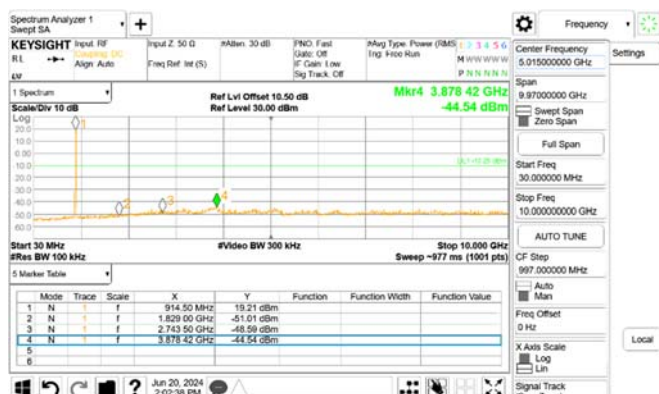
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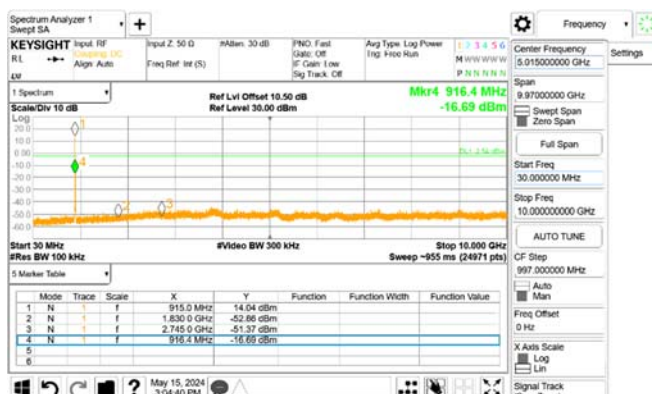
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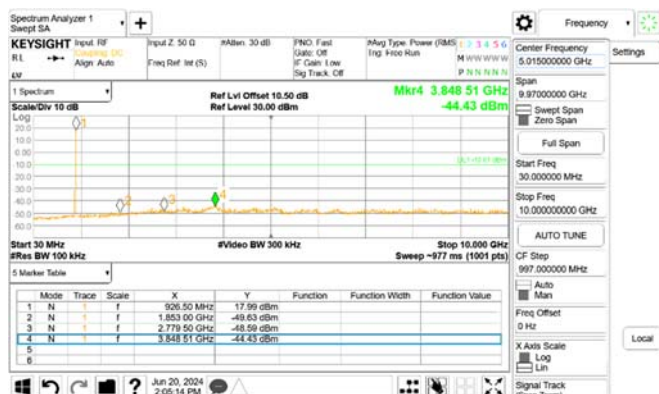
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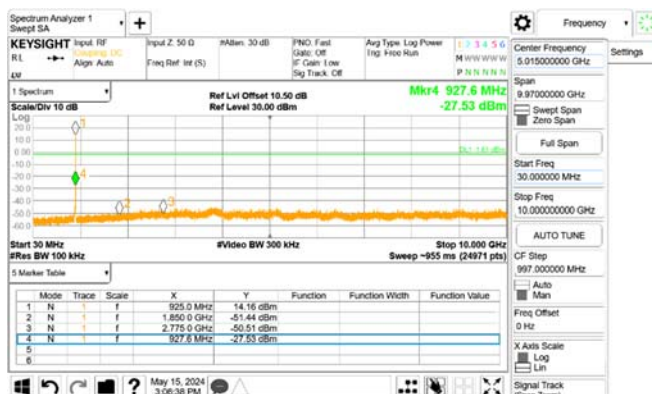
OFDM_2M_MidCH-915



OFDM_1M_HighCH-926.5



OFDM_2M_HighCH-925



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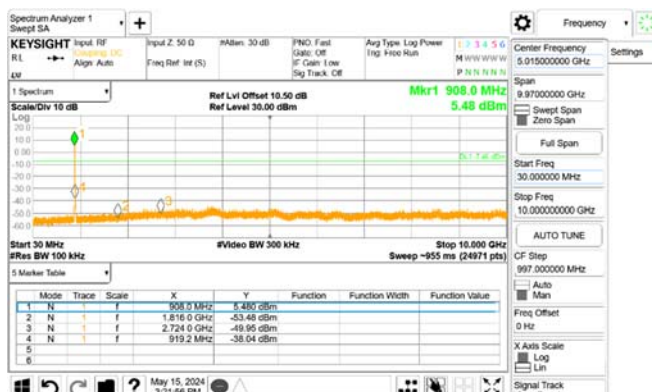
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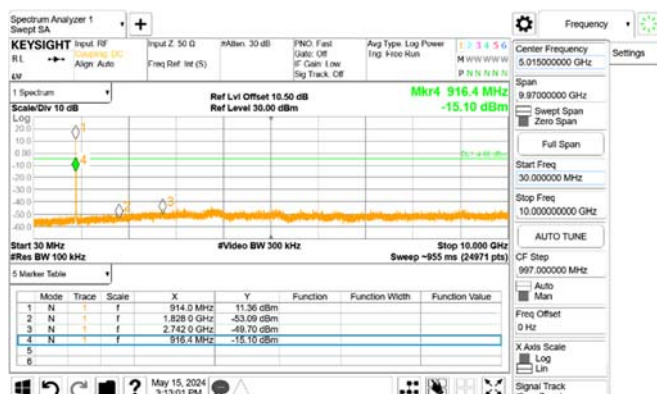
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OFDM_8M_LowCH-908



OFDM_4M_MidCH-914



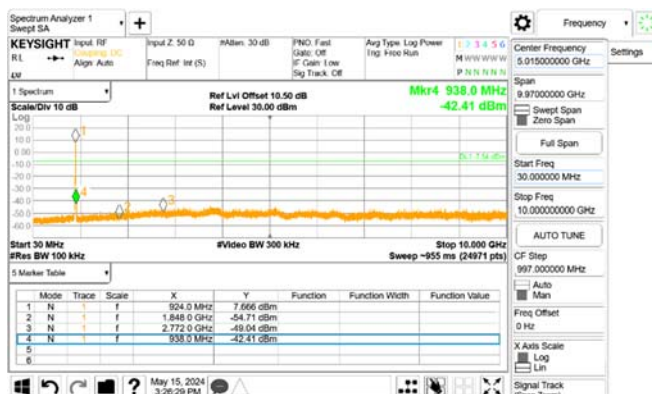
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OFDM_4M_HighCH-926



OFDM_8M_HighCH-924



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

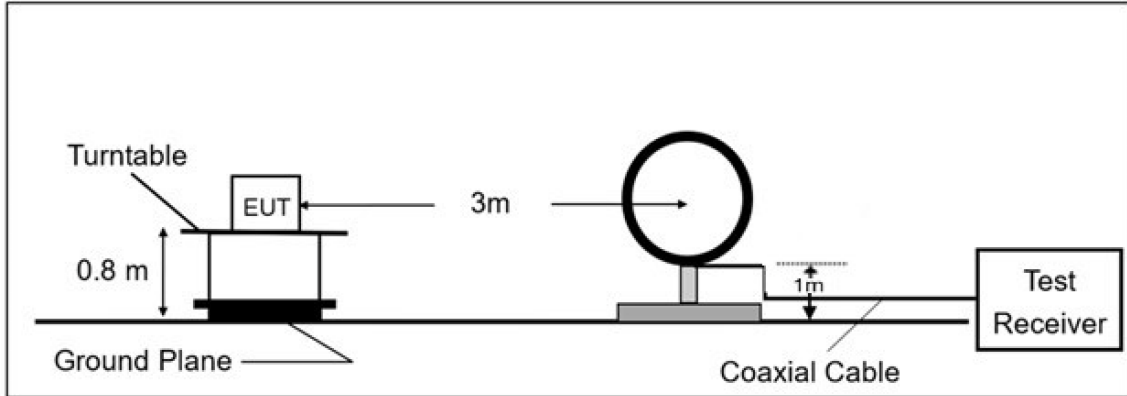
1. The lower limit shall apply at the transition frequencies.

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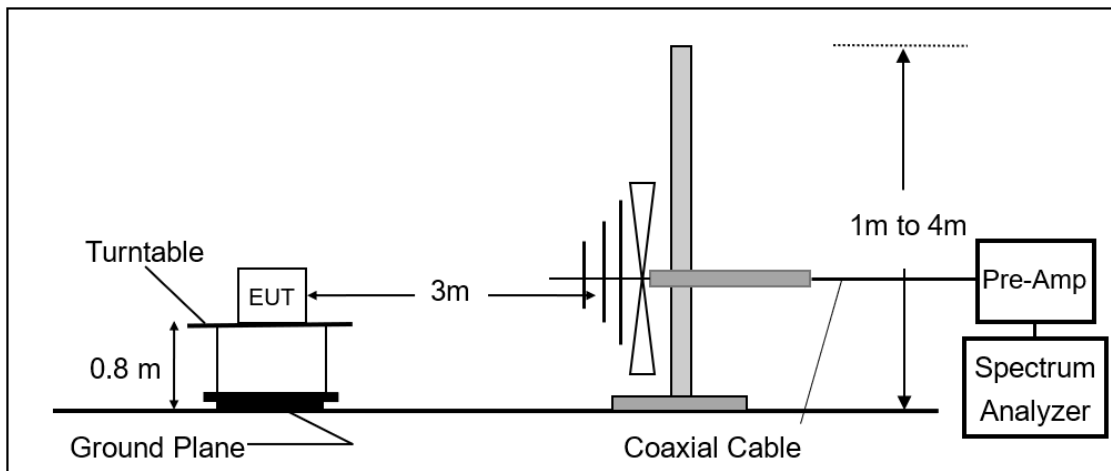
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11.2 Test Setup

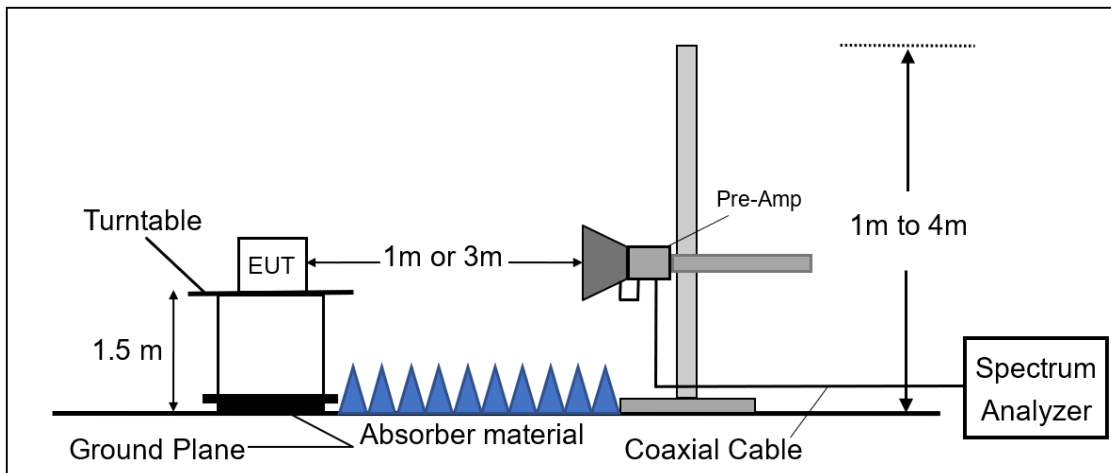
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

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

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11.4 Field Strength Calculation

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

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

Where *FS* = Field Strength

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

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

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

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

11.6 Measurement Result:

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

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11.6.1 Radiated Main and Band Edge Measurement Result

Chip

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

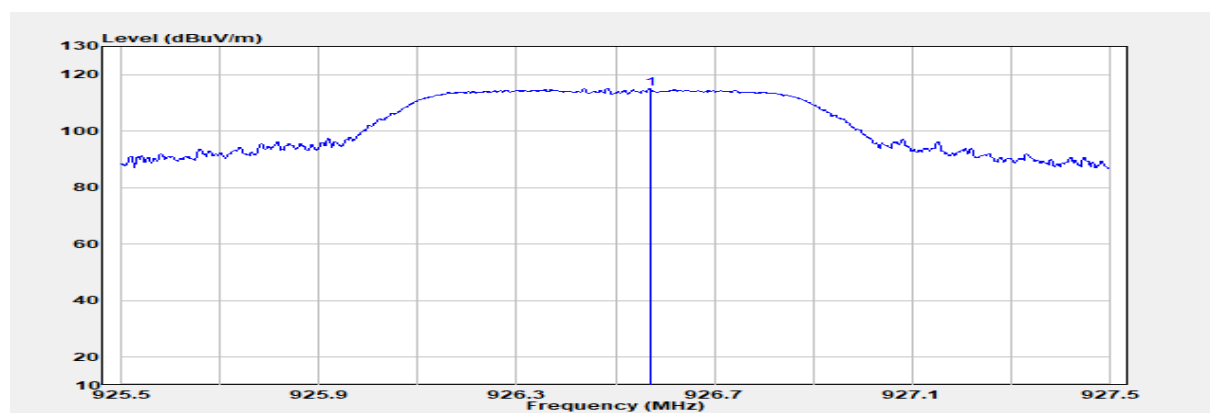
Temp./Humi. :21.1°C/63%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :E2 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
926.570	Peak	120.02	-4.87	115.15	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

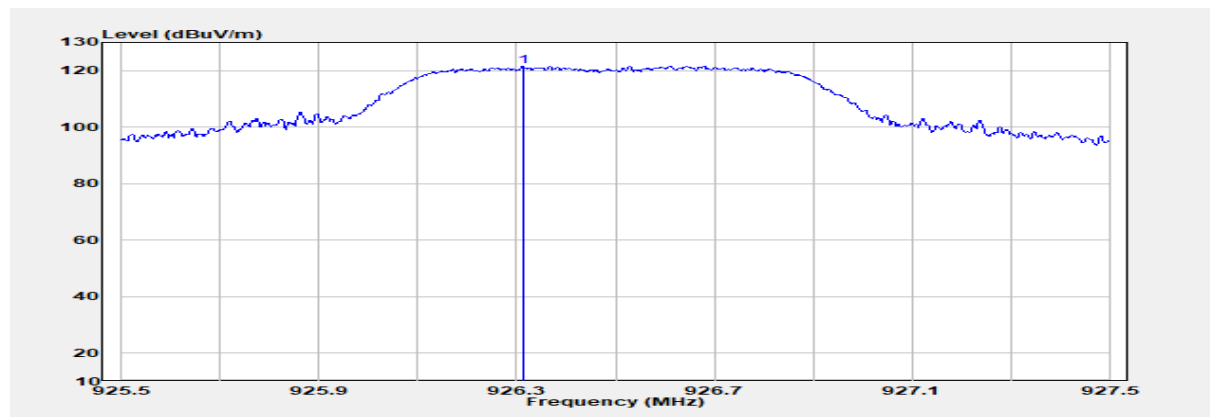
Temp./Humi. :21.1°C/63%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
926.312	Peak	126.53	-4.87	121.65	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :925 MHz

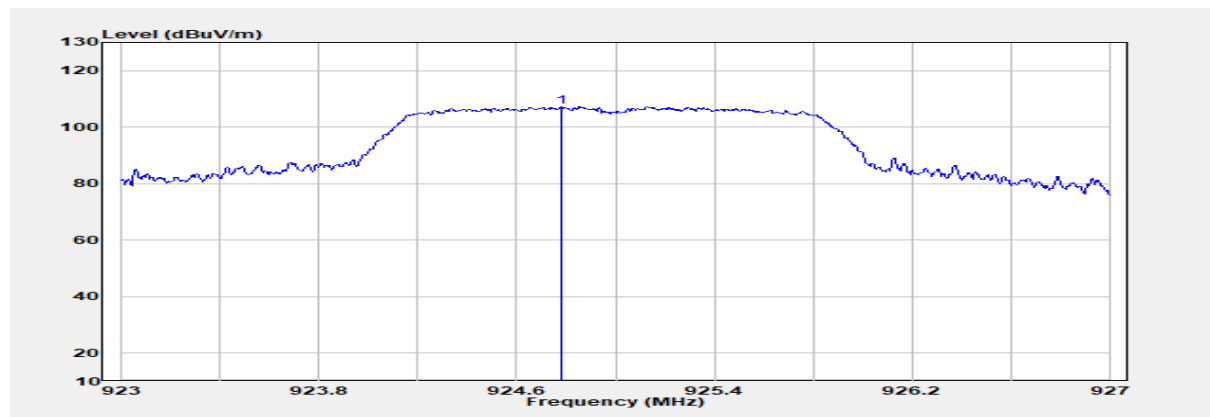
Temp./Humi. :22.4°C/64%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :E2 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
924.780	Peak	112.20	-4.90	107.30	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :925 MHz

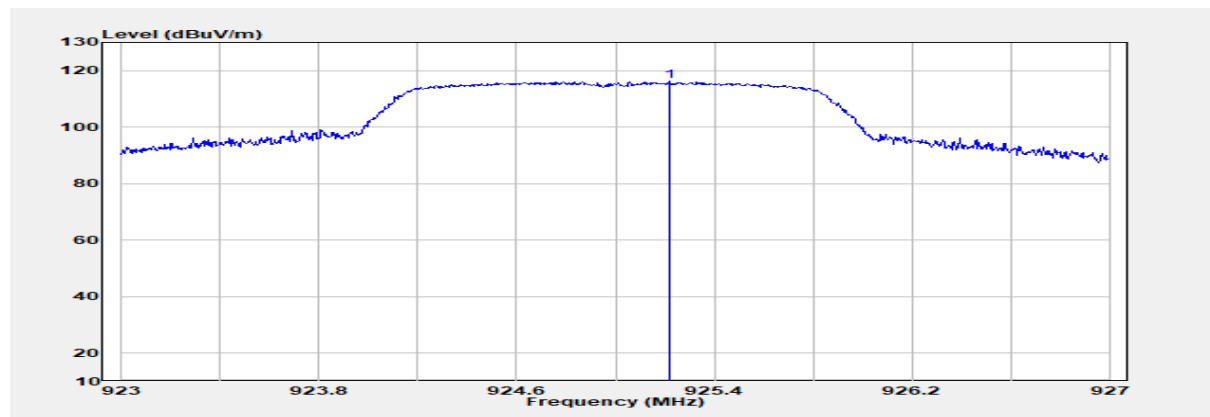
Temp./Humi. :22.4°C/64%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :E2 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
925.220	Peak	121.09	-4.88	116.21	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :926 MHz

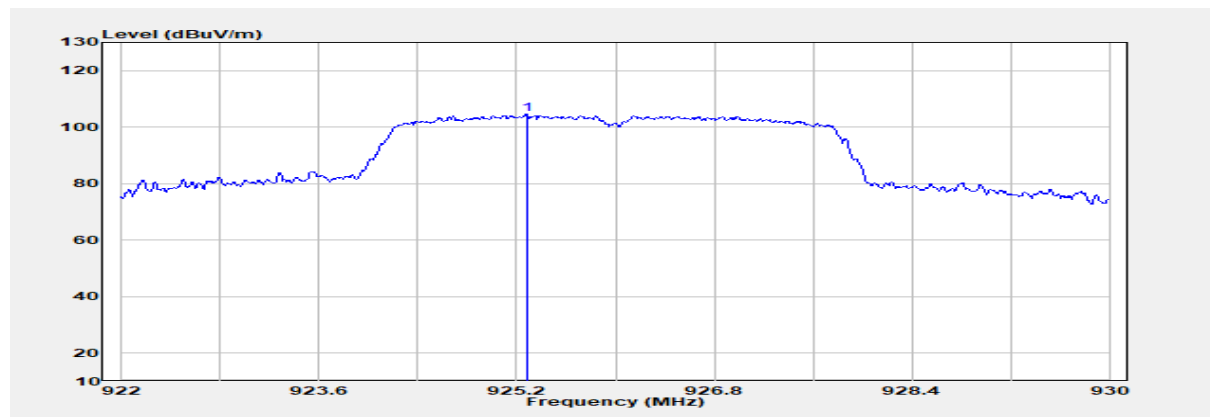
Temp./Humi. :22.4°C/64%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :E2 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
925.280	Peak	109.48	-4.88	104.60	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :926 MHz

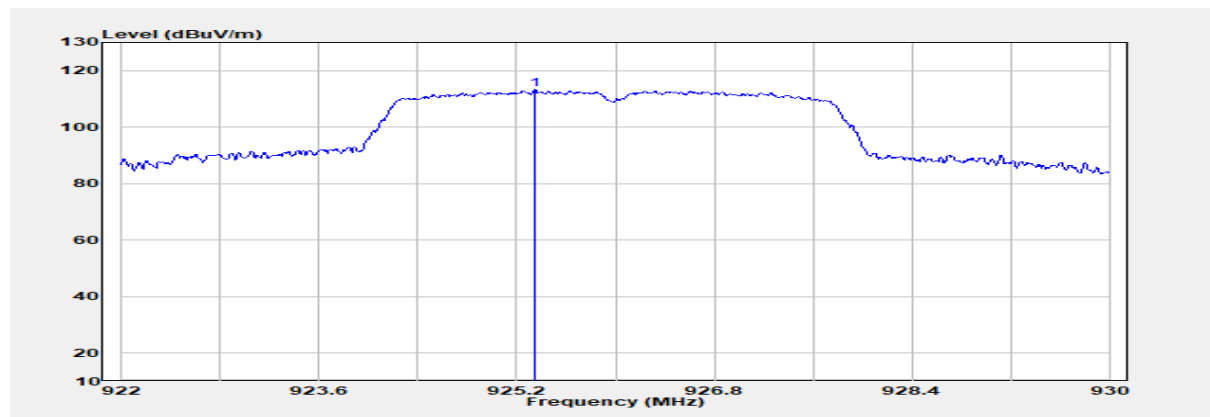
Temp./Humi. :22.4°C/64%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
925.352	Peak	118.14	-4.88	113.26	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :924 MHz

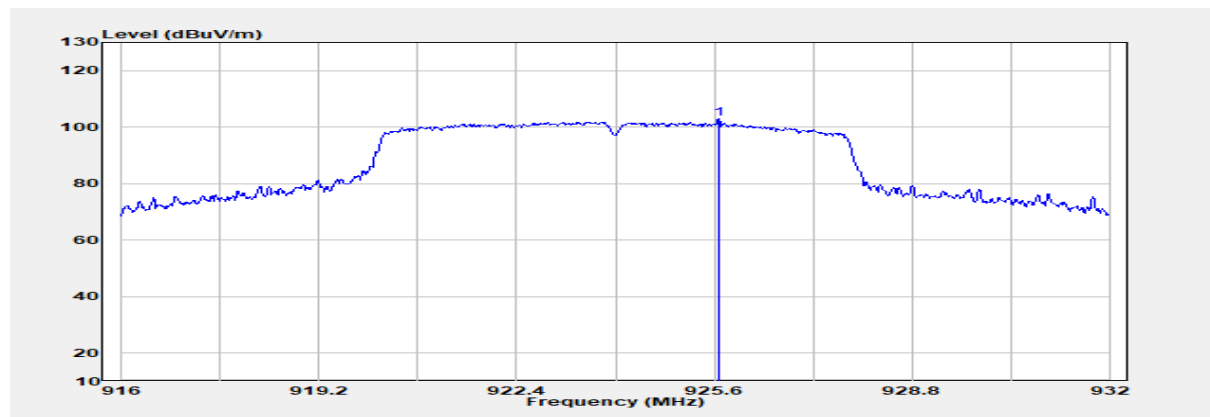
Temp./Humi. :22.4°C/64%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :E2 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
925.664	Peak	107.86	-4.88	102.98	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :924 MHz

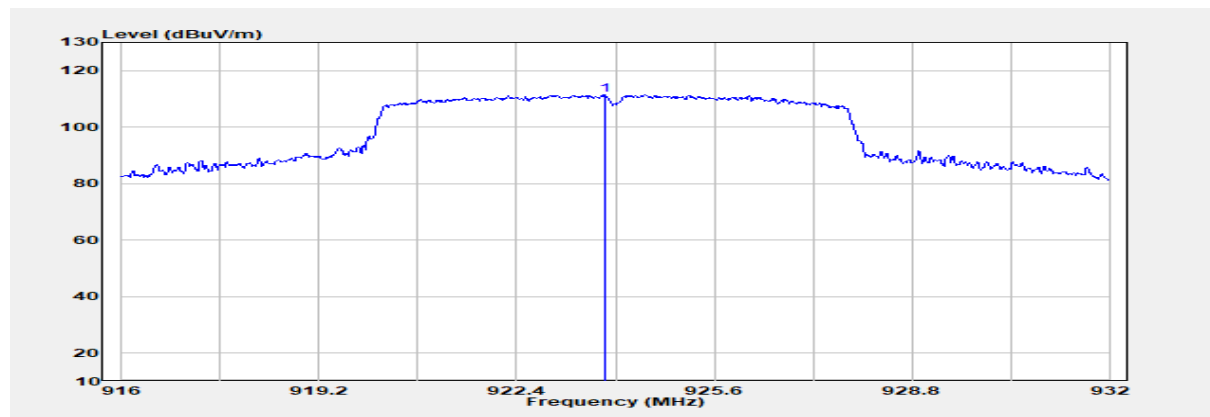
Temp./Humi. :22.4°C/64%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :E2 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
923.824	Peak	116.57	-4.95	111.62	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

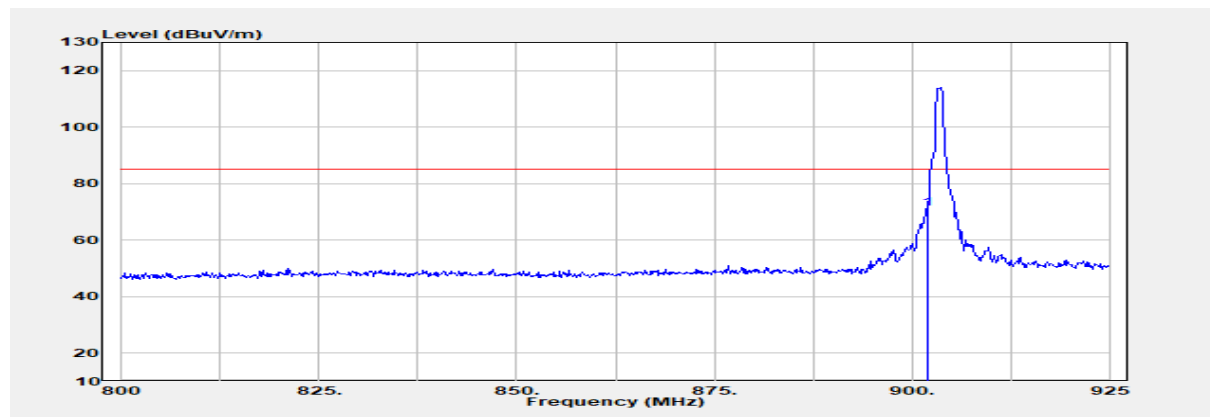
Temp./Humi. :21.1°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	76.96	-5.82	71.14	85.15	-14.01

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www.sgs.com.tw

Member of SGS Group

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

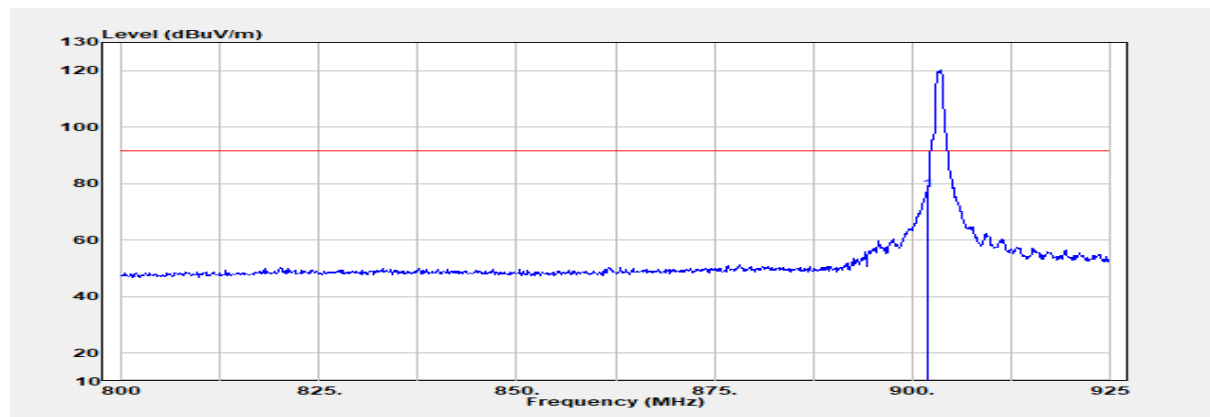
Temp./Humi. :21.1°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	83.57	-5.82	77.75	91.65	-13.90

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

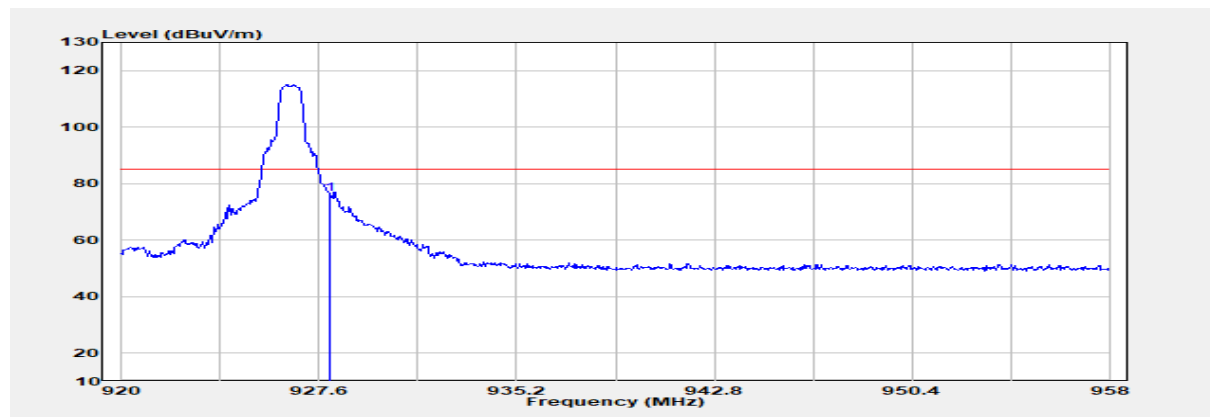
Temp./Humi. :21.1°C/63%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	81.22	-4.86	76.36	85.15	-8.79

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

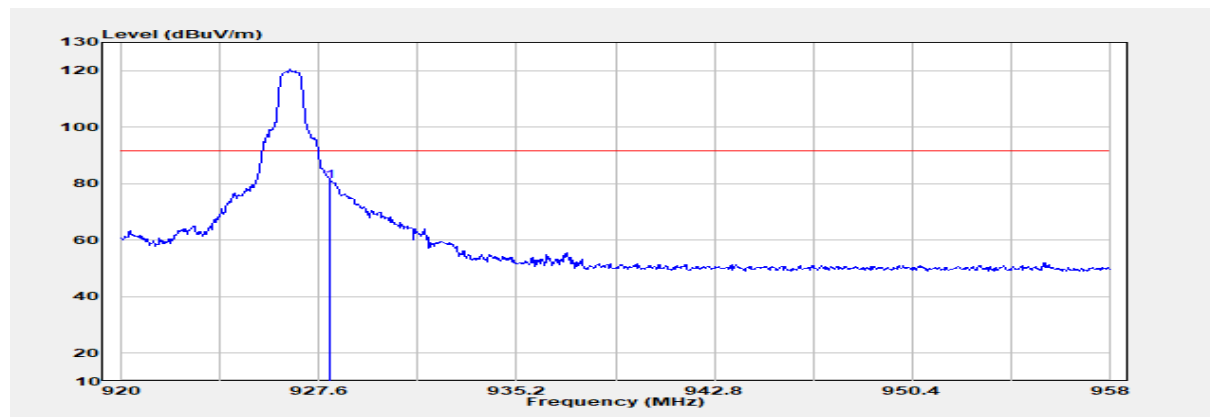
Temp./Humi. :21.1°C/63%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	85.61	-4.86	80.75	91.65	-10.90

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :905 MHz

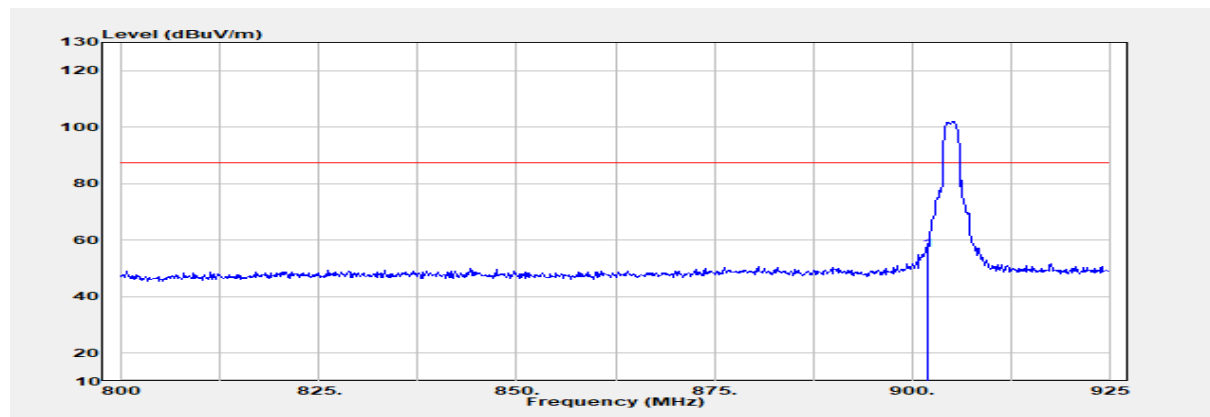
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	62.23	-5.82	56.41	87.30	-30.89

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :905 MHz

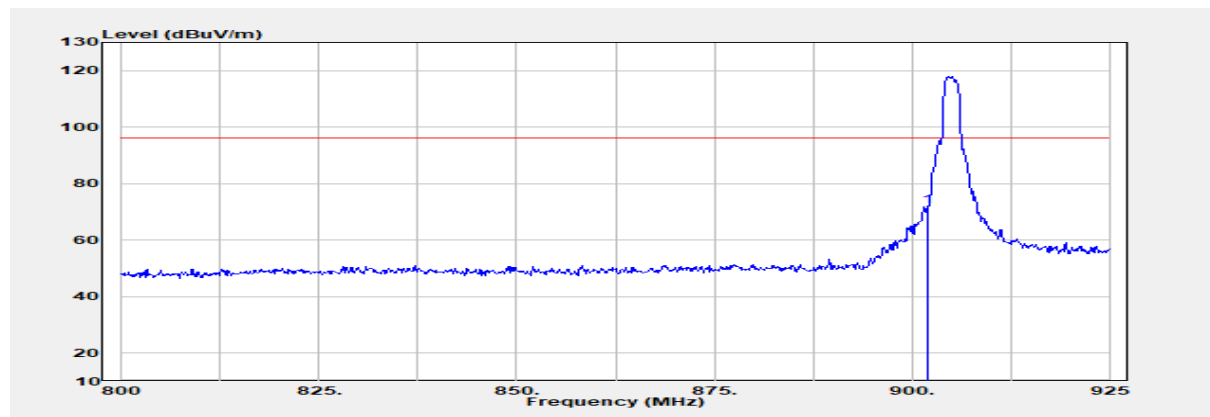
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	78.01	-5.82	72.19	96.21	-24.02

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :925 MHz

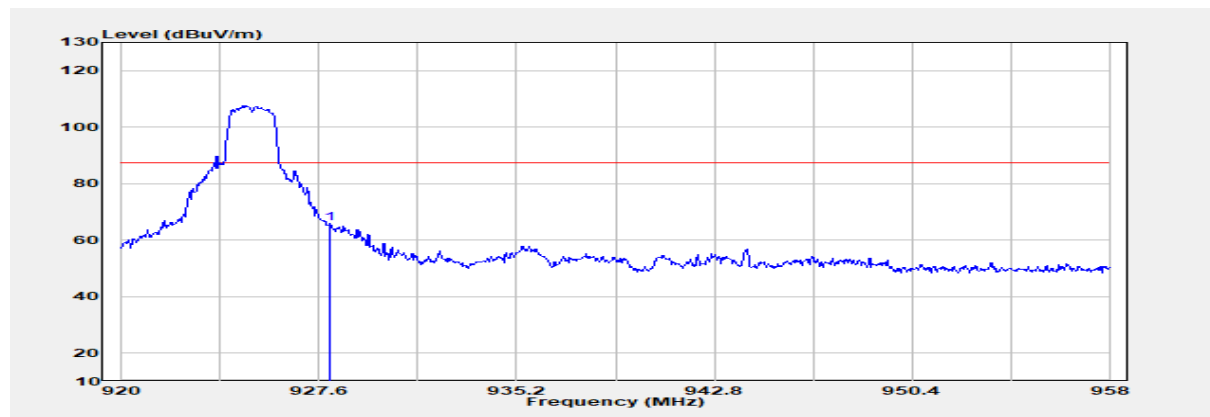
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	70.63	-4.86	65.77	87.30	-21.53

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :925 MHz

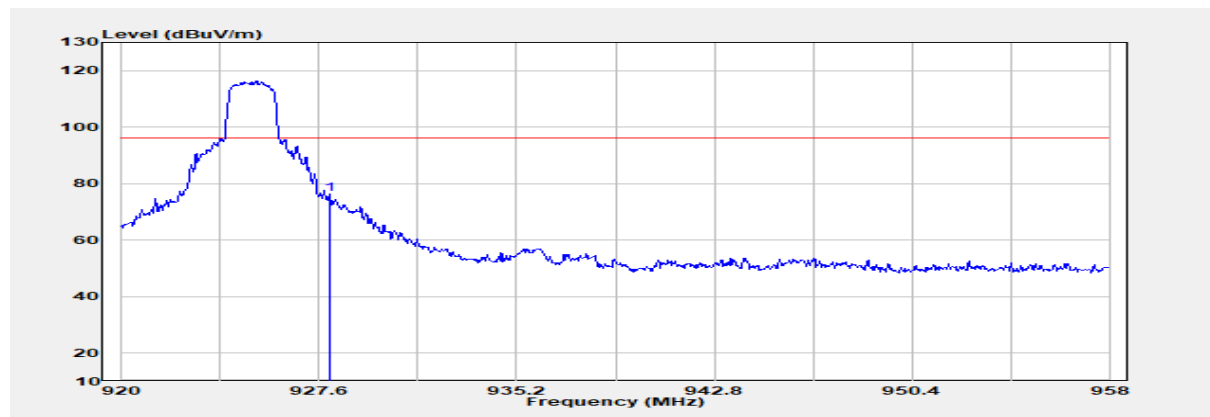
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	81.14	-4.86	76.28	96.21	-19.93

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :906 MHz

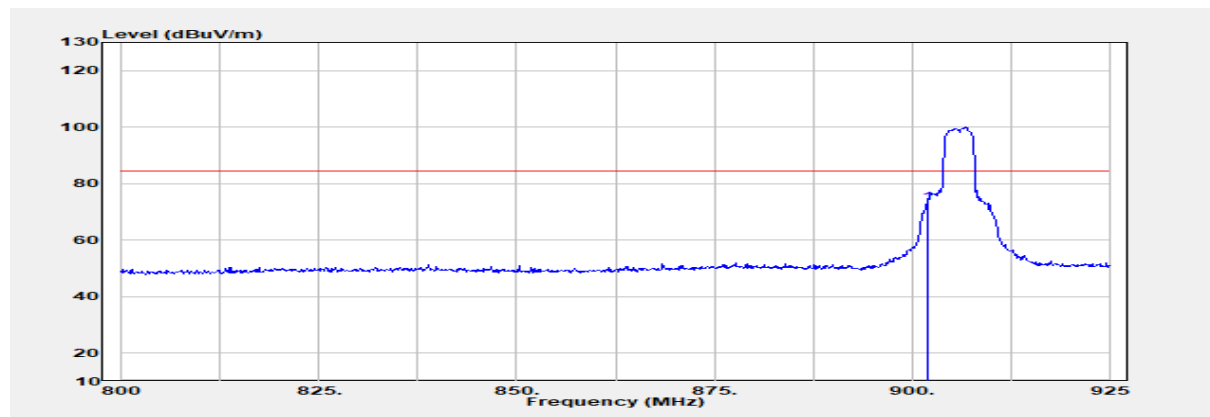
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	79.07	-5.82	73.25	84.60	-11.35

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :906 MHz

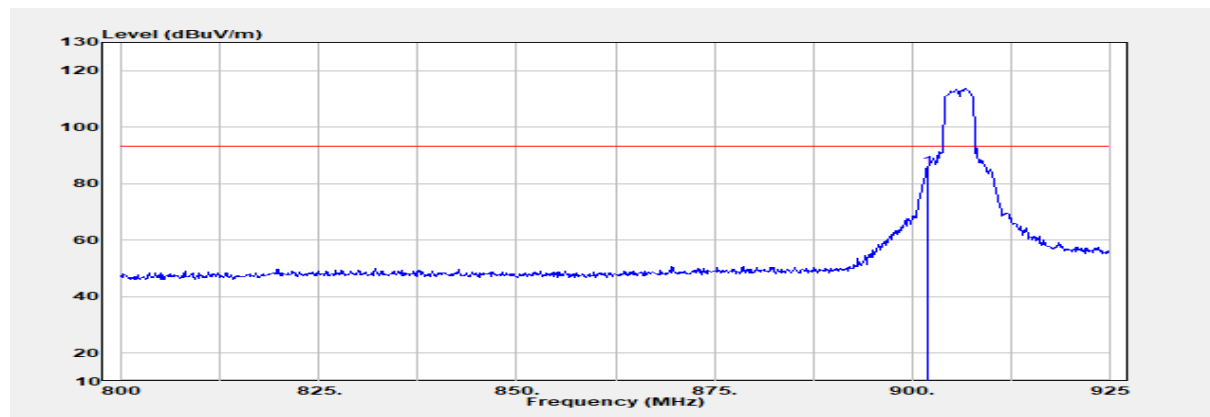
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	91.48	-5.82	85.66	93.26	-7.60

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :926 MHz

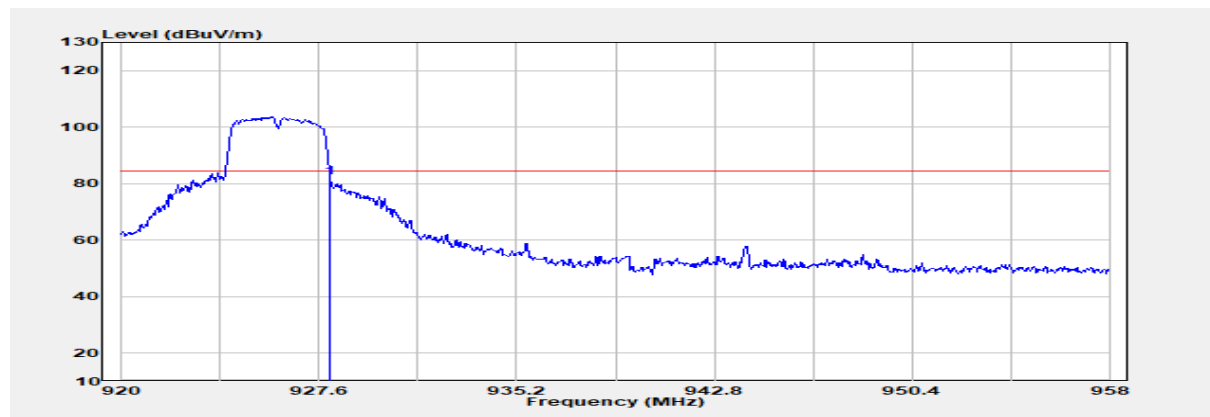
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	87.00	-4.86	82.14	84.60	-2.46

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Member of SGS Group

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :926 MHz

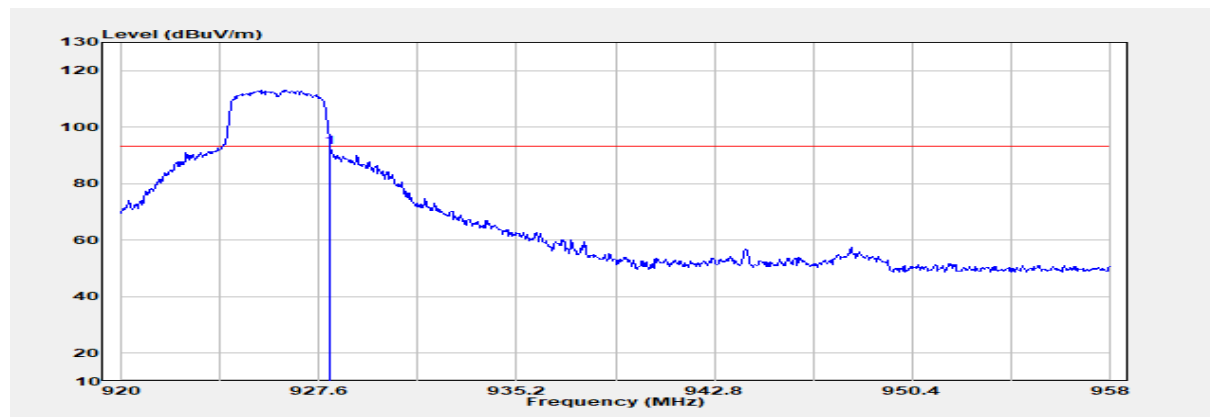
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	97.92	-4.86	93.06	93.26	-0.20

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :908 MHz

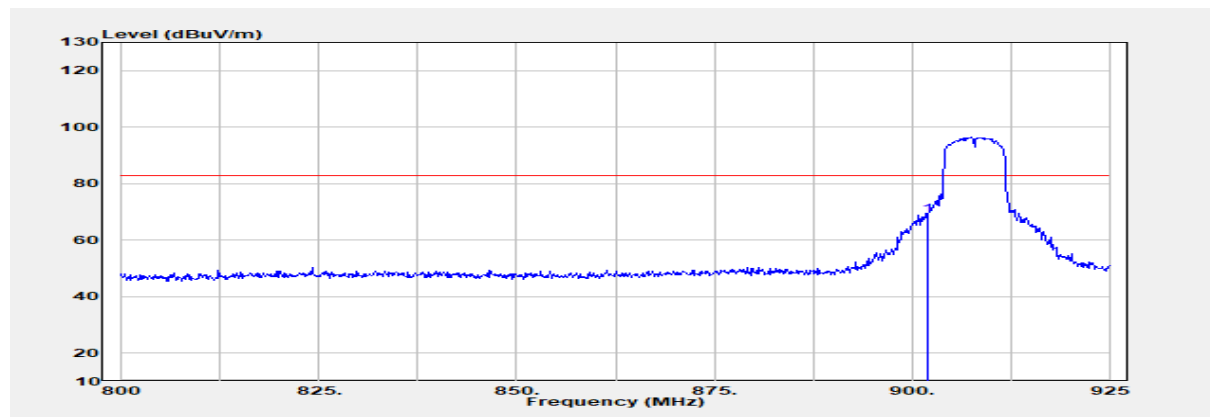
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	74.71	-5.82	68.89	82.98	-14.09

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :908 MHz

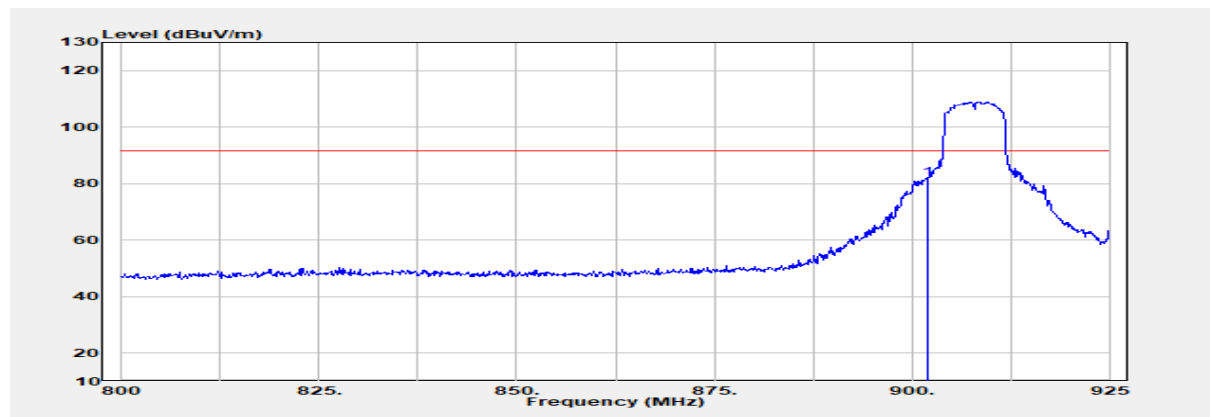
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	87.66	-5.82	81.84	91.62	-9.78

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :924 MHz

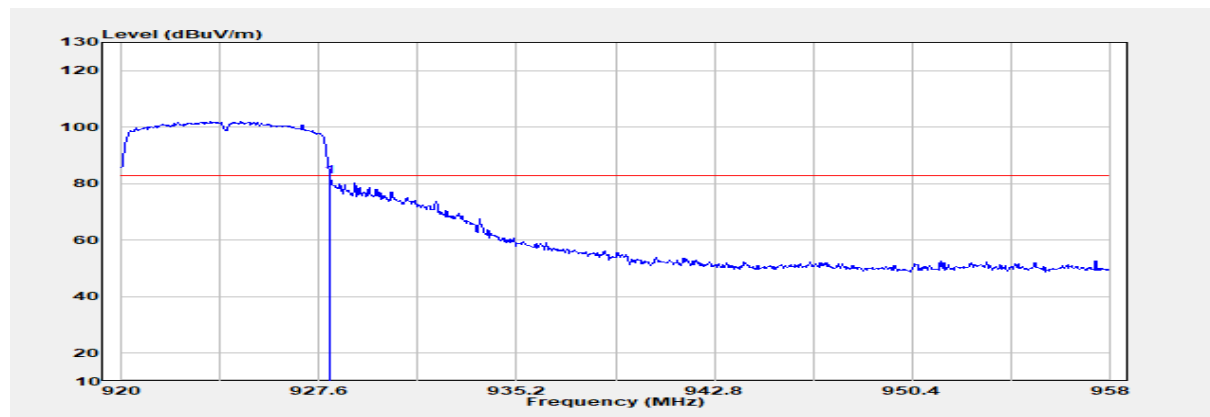
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 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	87.26	-4.86	82.40	82.98	-0.58

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :924 MHz

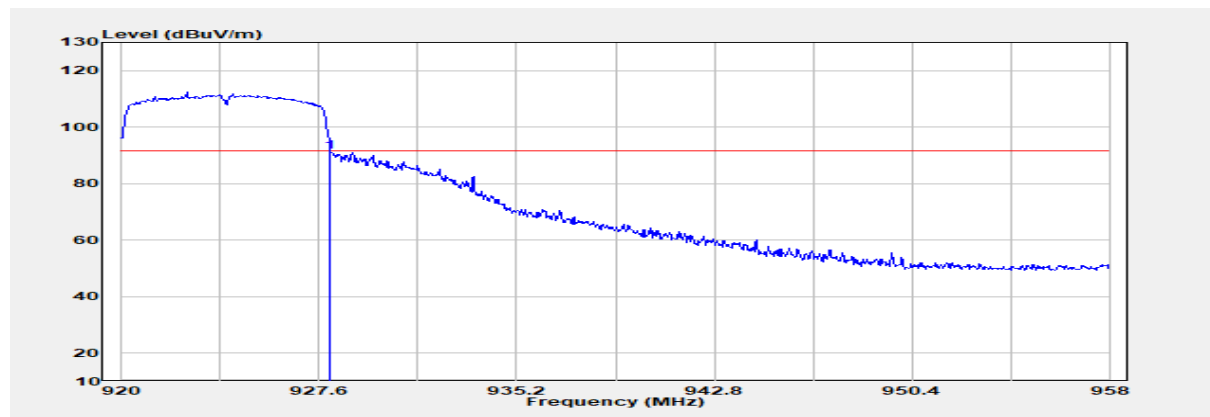
Temp./Humi. :22.4°C/64%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 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	96.24	-4.86	91.38	91.62	-0.24

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Dipole

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :914.5 MHz

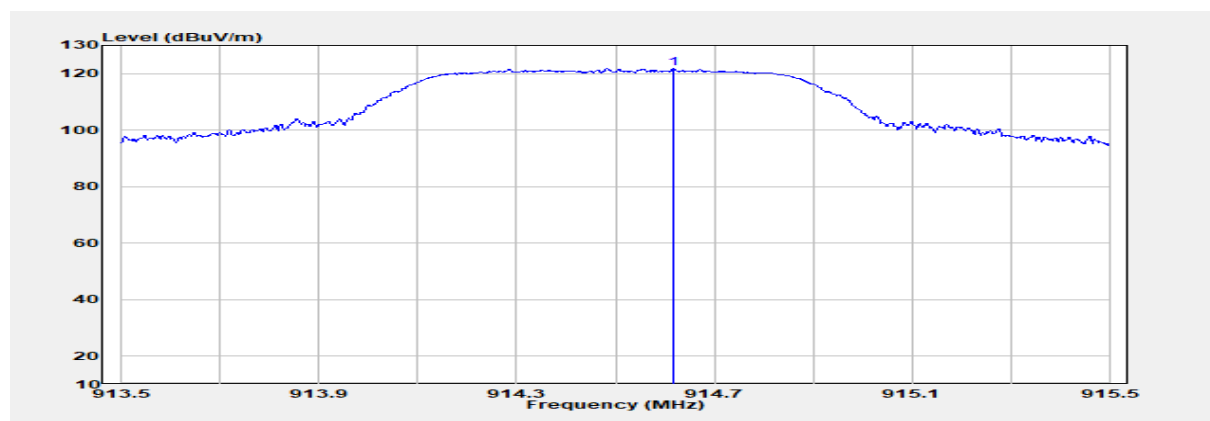
Temp./Humi. :21.1°C/63%

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
914.618	Peak	127.15	-5.33	121.82	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :914.5 MHz

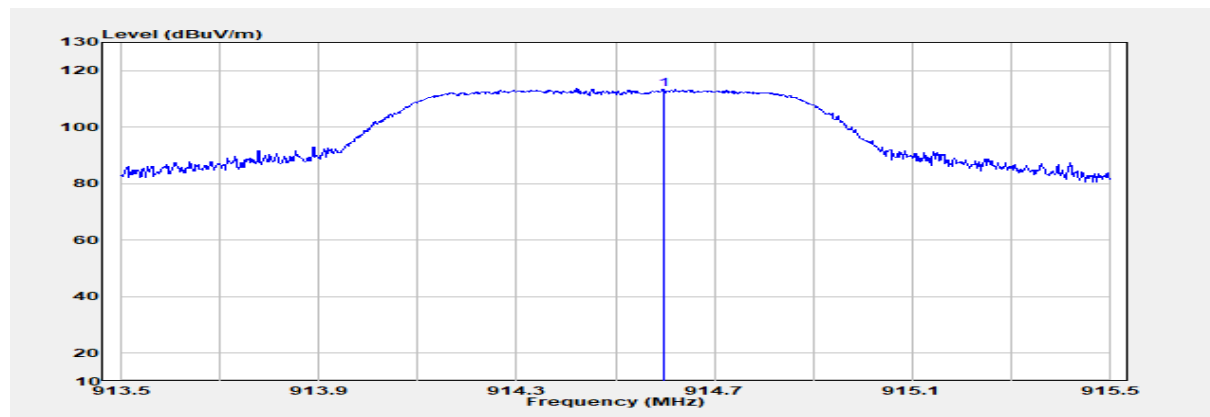
Temp./Humi. :21.1°C/63%

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
914.598	Peak	118.89	-5.33	113.56	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :925 MHz

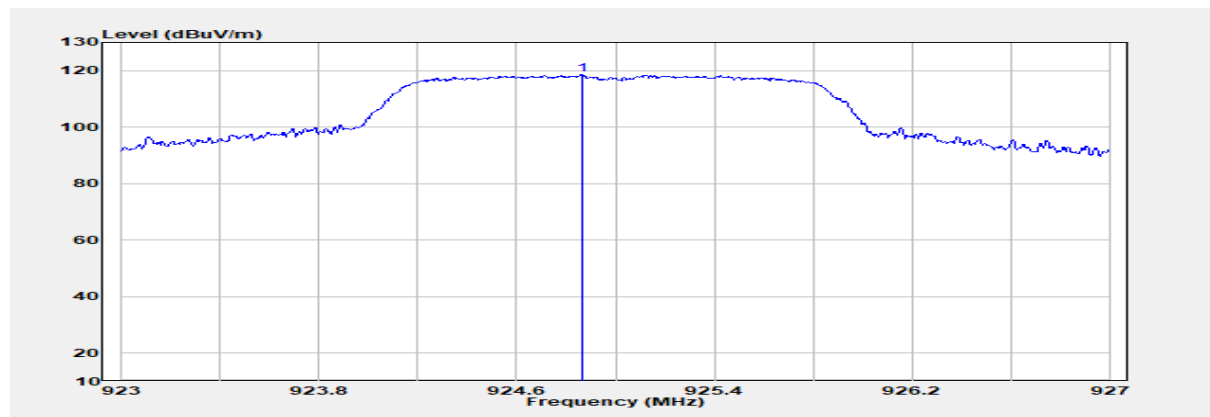
Temp./Humi. :23.1°C/62%

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
924.864	Peak	123.40	-4.89	118.51	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :925 MHz

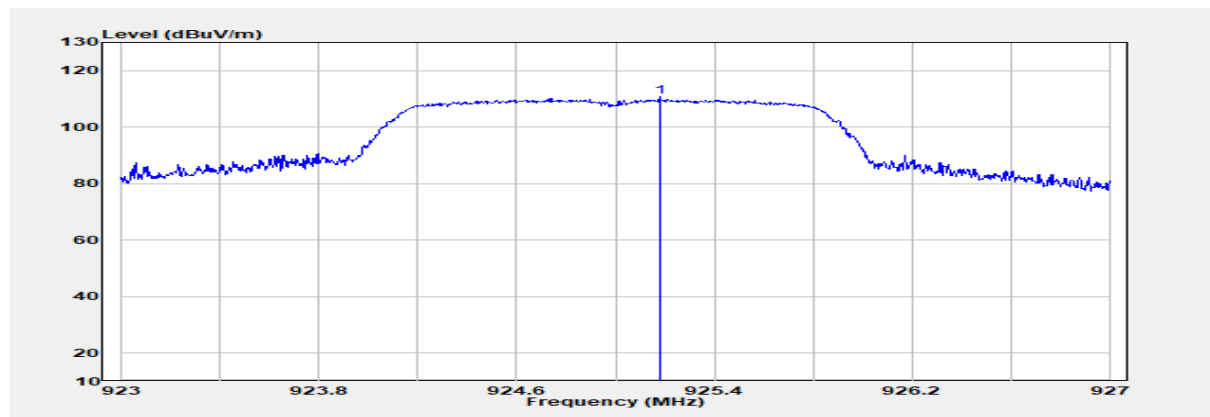
Temp./Humi. :23.1°C/62%

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
925.180	Peak	115.56	-4.88	110.68	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :926 MHz

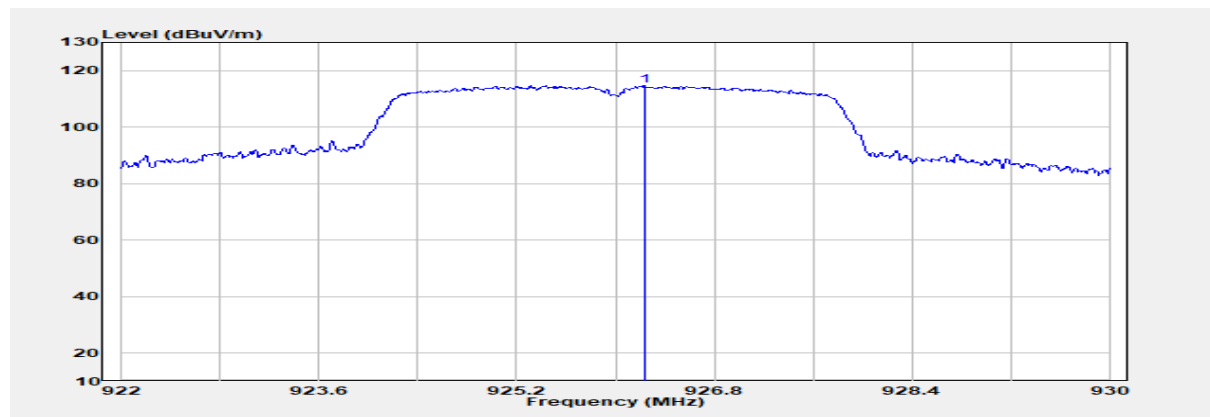
Temp./Humi. :23.1°C/62%

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
926.232	Peak	119.61	-4.87	114.74	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :926 MHz

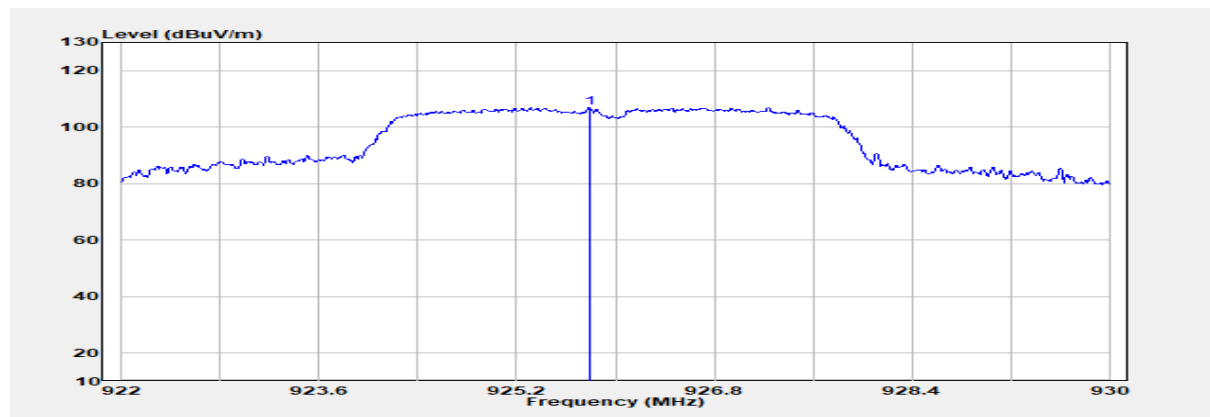
Temp./Humi. :23.1°C/62%

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
925.792	Peak	111.87	-4.88	106.99	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :924 MHz

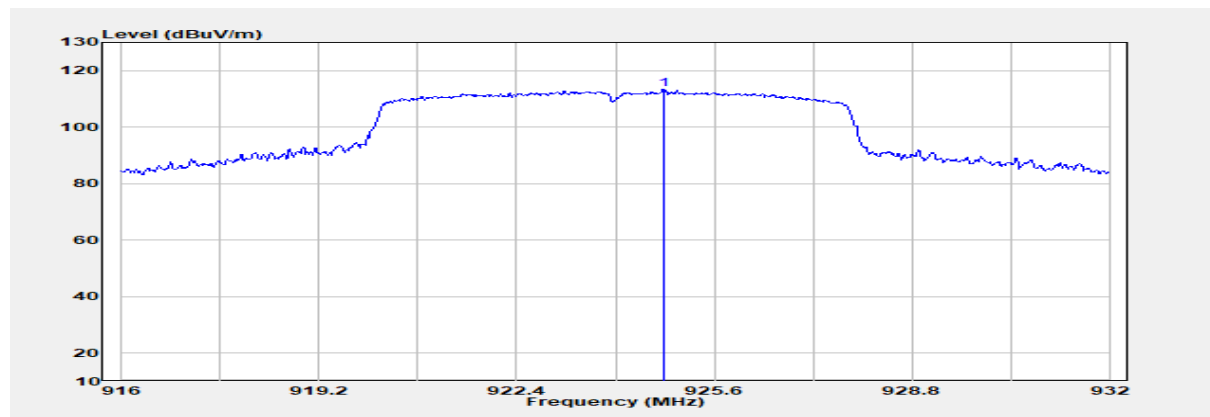
Temp./Humi. :23.1°C/62%

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
924.784	Peak	118.25	-4.90	113.35	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :924 MHz

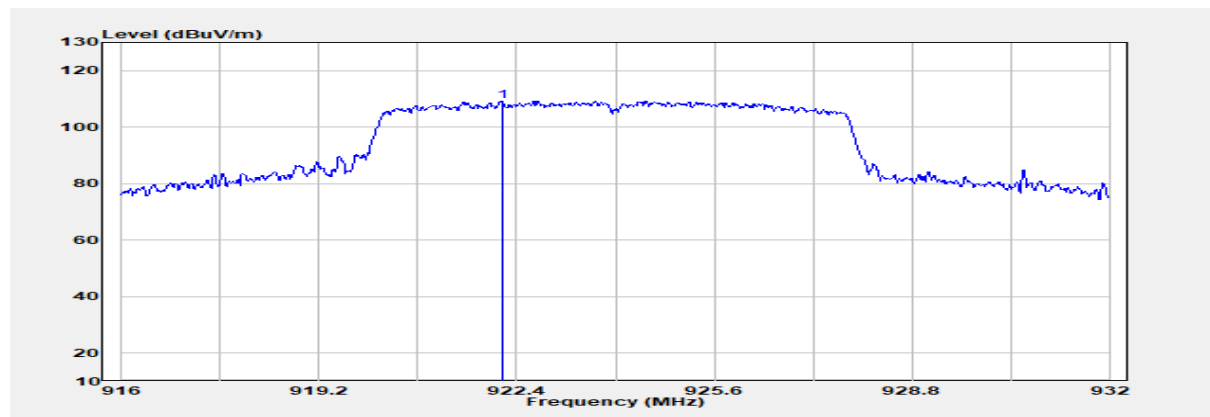
Temp./Humi. :23.1°C/62%

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
922.160	Peak	114.33	-5.05	109.28	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

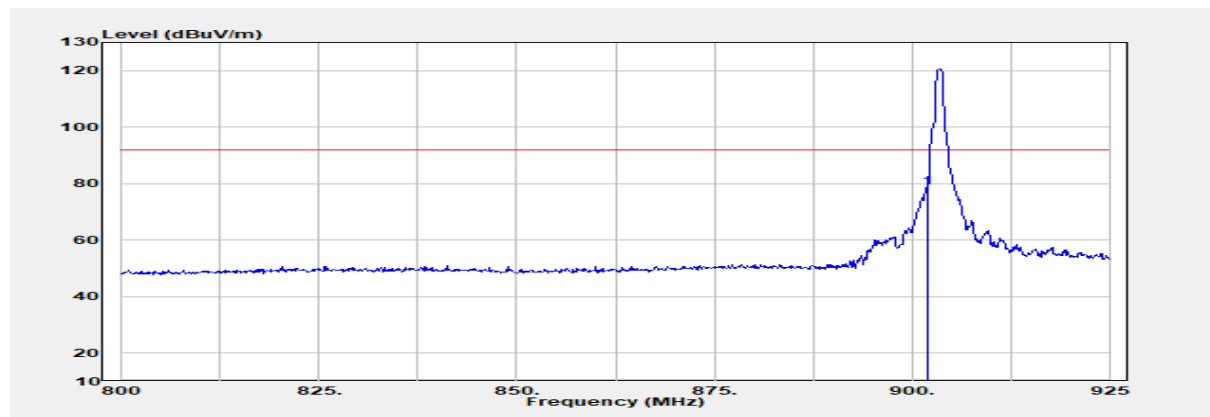
Temp./Humi. :21.1°C/63%

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	84.56	-5.82	78.74	91.82	-13.08

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

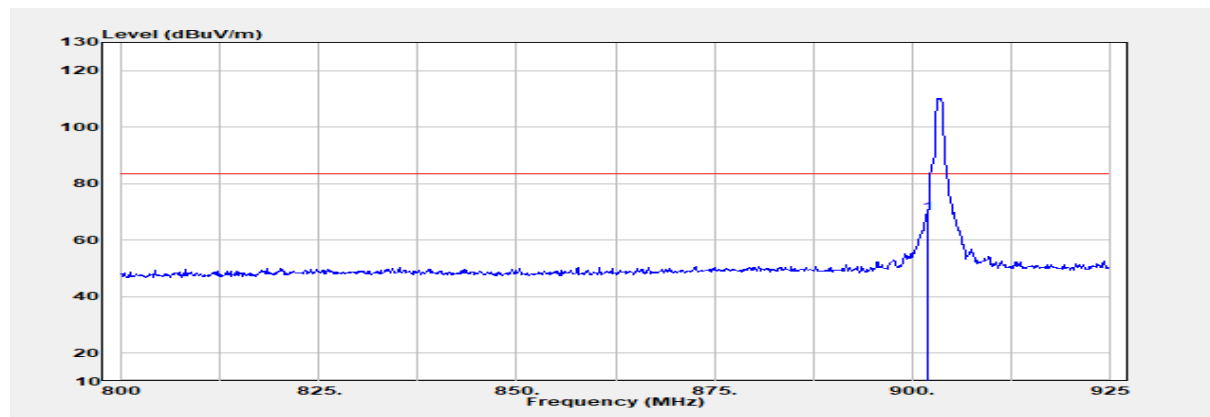
Temp./Humi. :21.1°C/63%

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	75.45	-5.82	69.63	83.56	-13.93

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

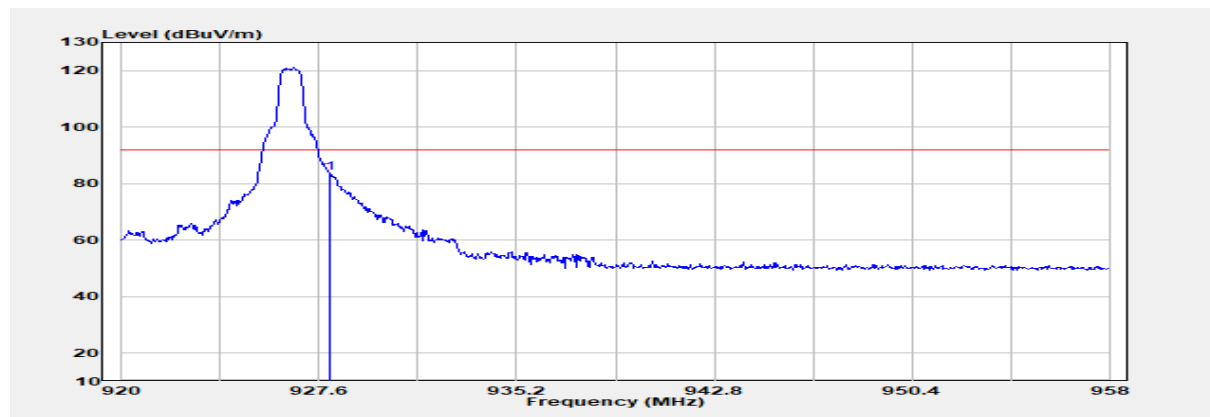
Temp./Humi. :21.1°C/63%

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	88.65	-4.86	83.79	91.82	-8.03

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

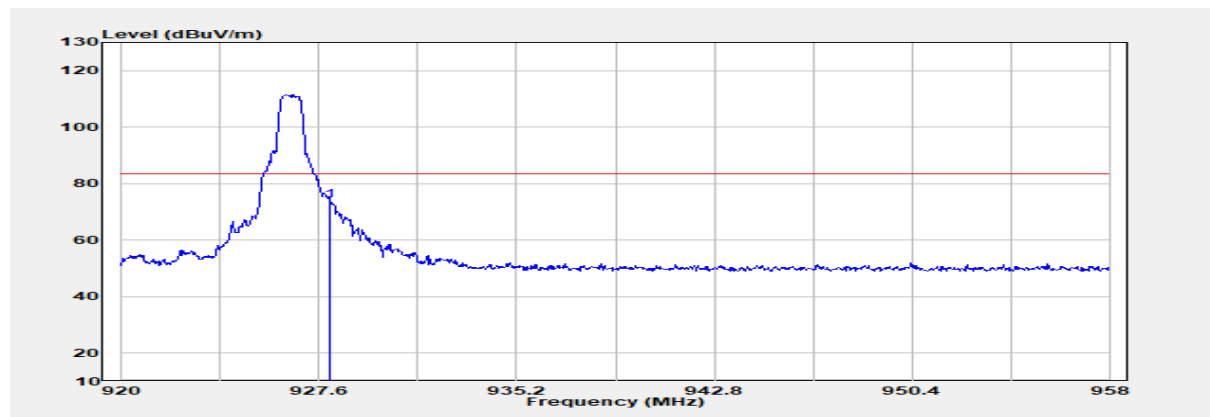
Temp./Humi. :21.1°C/63%

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	78.83	-4.86	73.97	83.56	-9.59

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :905 MHz

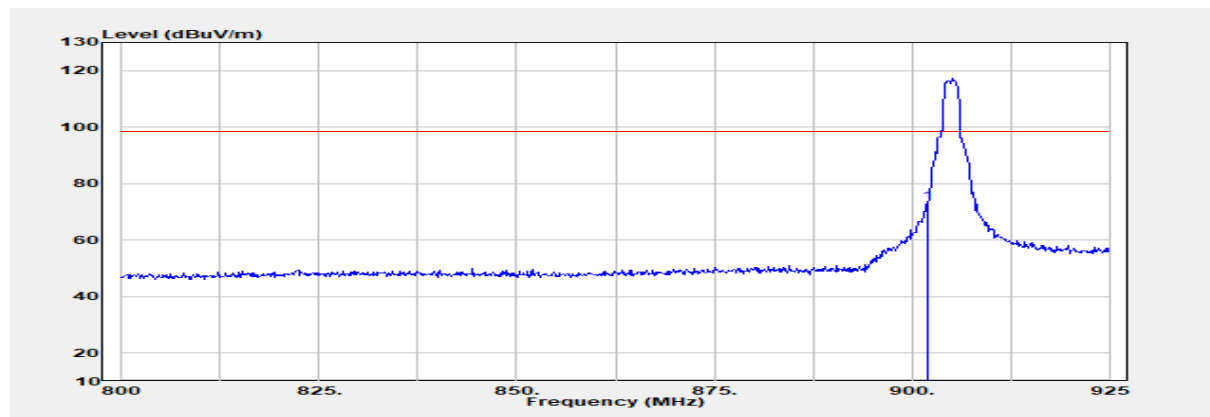
Temp./Humi. :23.1°C/62%

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	79.28	-5.82	73.45	98.51	-25.06

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :905 MHz

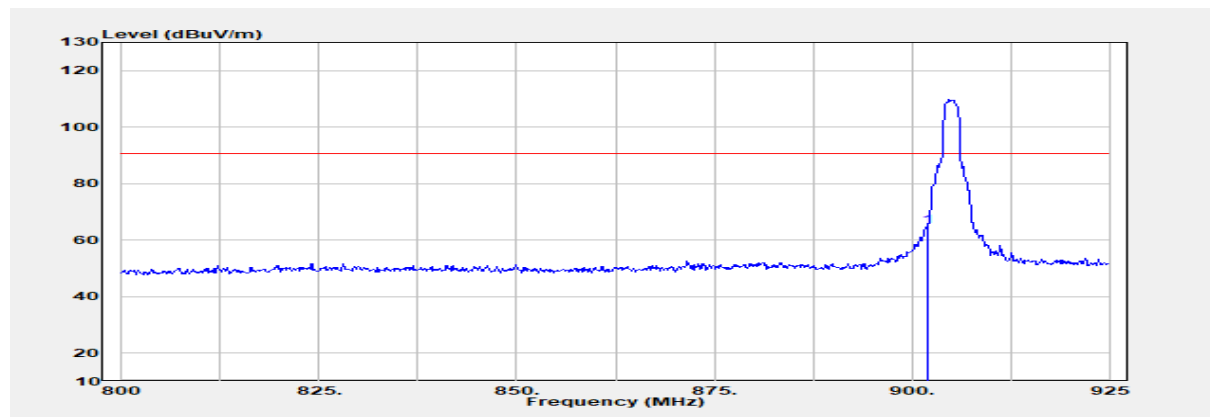
Temp./Humi. :23.1°C/62%

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	70.76	-5.82	64.94	90.68	-25.74

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :925 MHz

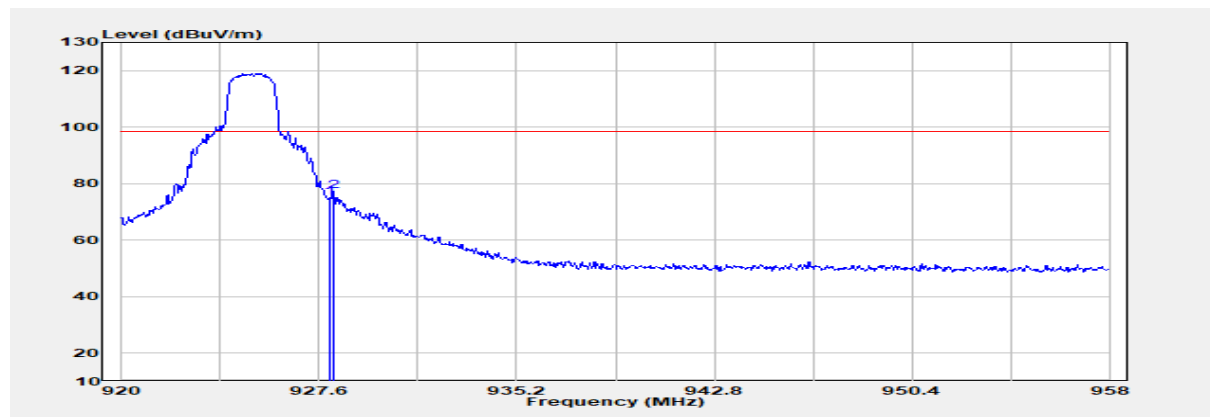
Temp./Humi. :23.1°C/62%

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	79.96	-4.86	75.10	98.51	-23.41
928.132	Peak	82.34	-4.86	77.48	98.51	-21.03

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Member of SGS Group

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :925 MHz

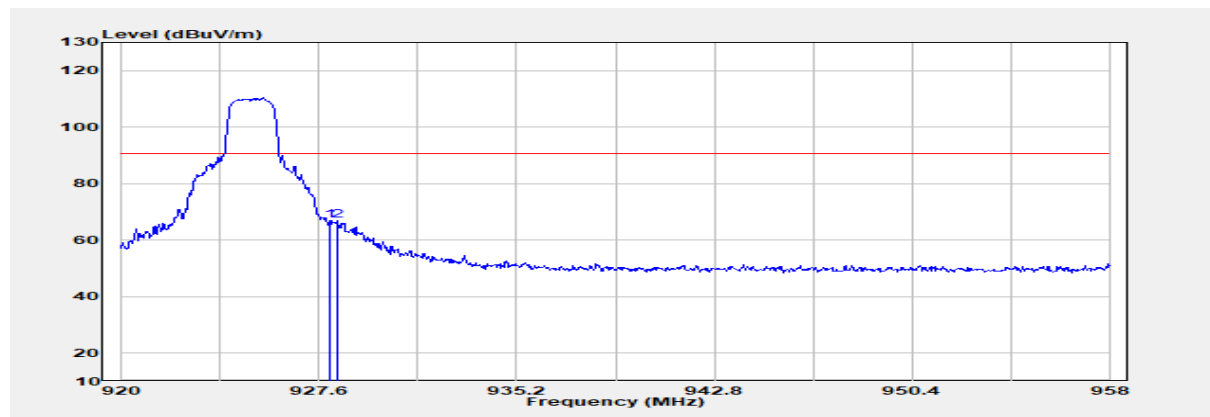
Temp./Humi. :23.1°C/62%

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
928.000	Peak	71.75	-4.86	66.90	90.68	-23.78
928.322	Peak	71.77	-4.86	66.91	90.68	-23.77

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :906 MHz

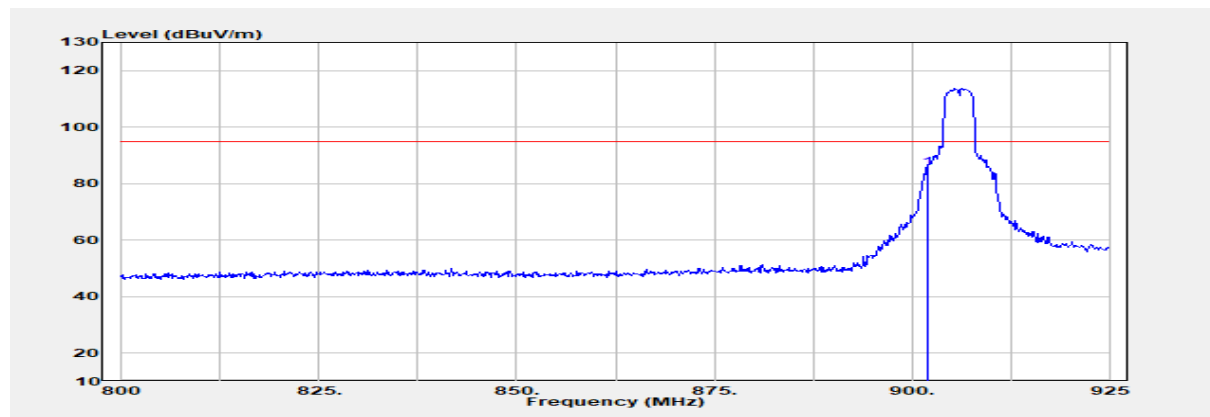
Temp./Humi. :23.1°C/62%

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	91.23	-5.82	85.40	94.74	-9.34

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :906 MHz

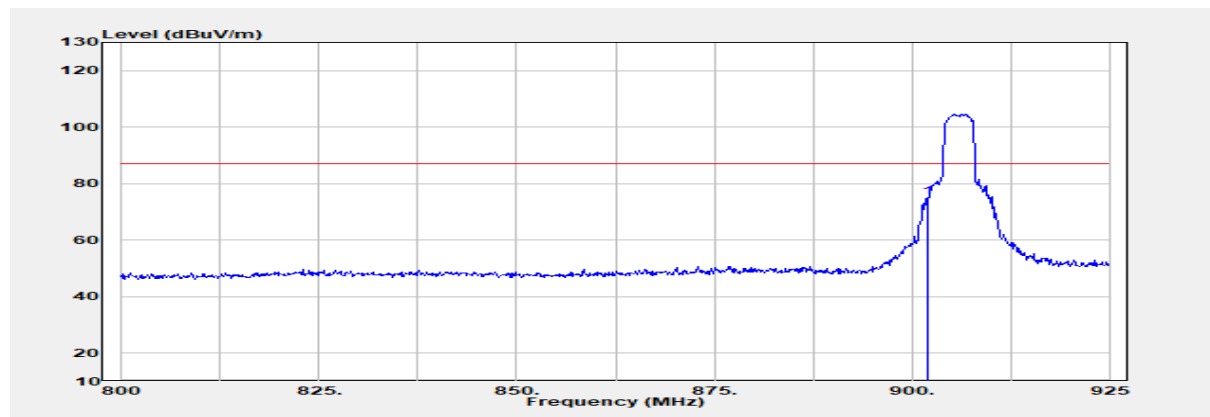
Temp./Humi. :23.1°C/62%

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	81.00	-5.82	75.17	86.99	-11.82

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :926 MHz

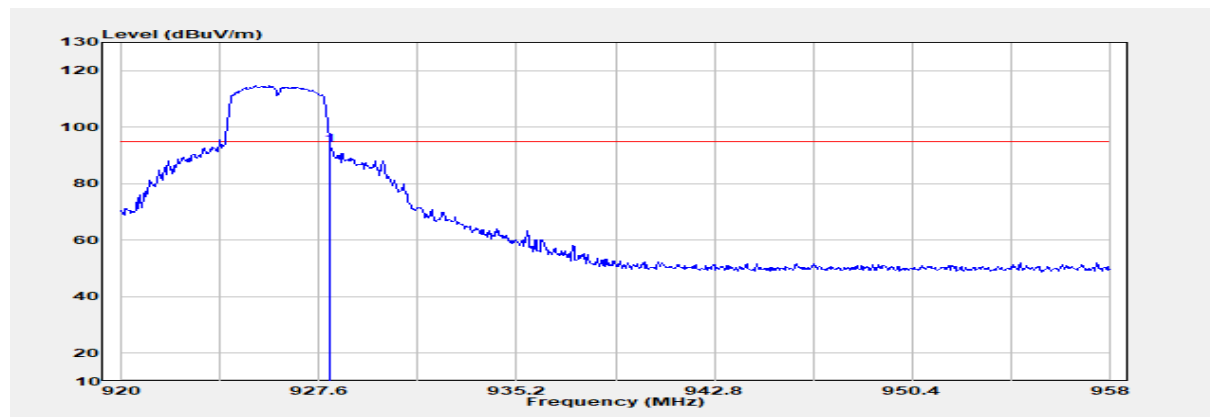
Temp./Humi. :23.1°C/62%

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	98.44	-4.86	93.58	94.74	-1.16

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :926 MHz

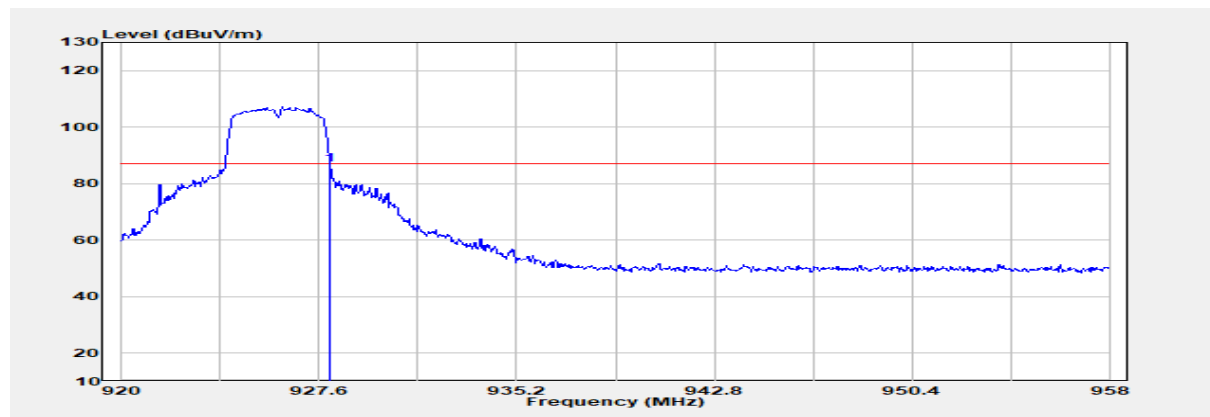
Temp./Humi. :23.1°C/62%

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	91.67	-4.86	86.81	86.99	-0.18

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :908 MHz

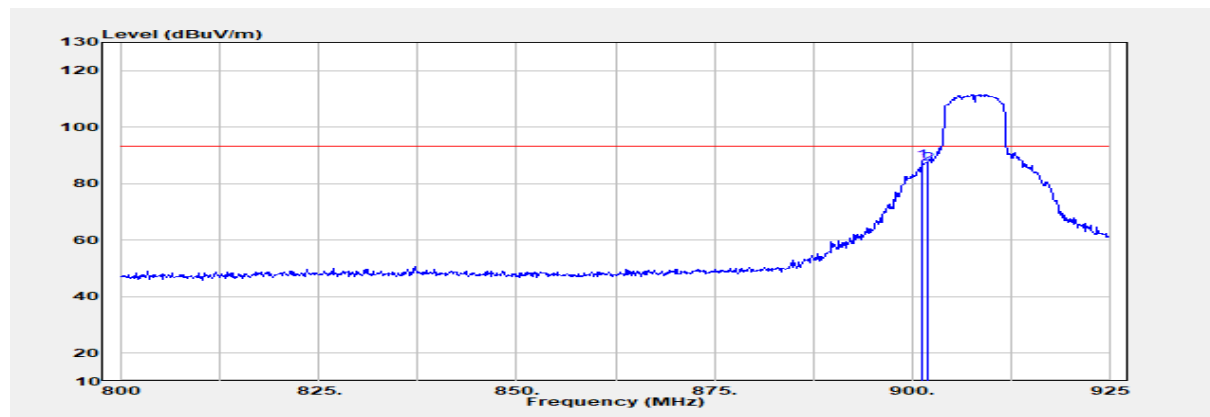
Temp./Humi. :23.1°C/62%

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
901.375	Peak	94.03	-5.85	88.18	93.35	-5.17
902.000	Peak	92.74	-5.82	86.92	93.35	-6.43

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :908 MHz

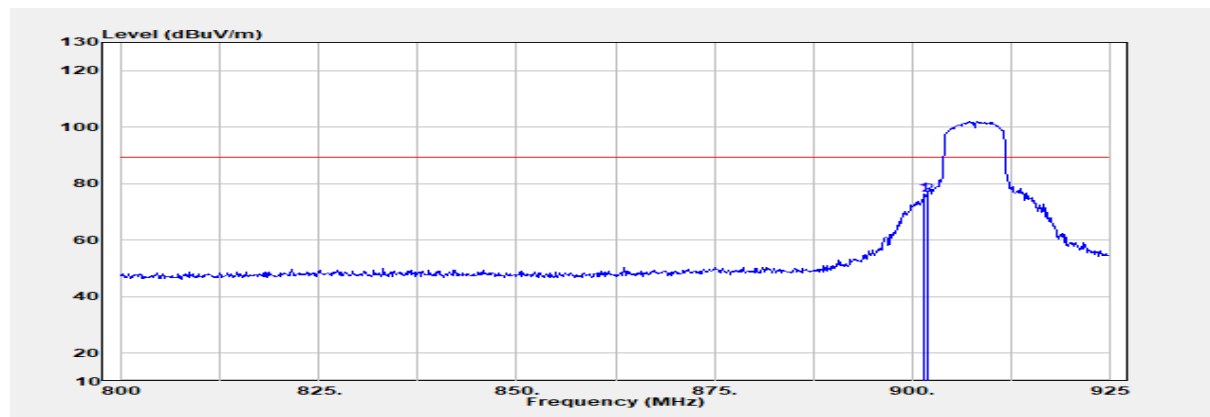
Temp./Humi. :23.1°C/62%

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
901.625	Peak	82.12	-5.84	76.29	89.28	-12.99
902.000	Peak	81.82	-5.82	76.00	89.28	-13.28

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :924 MHz

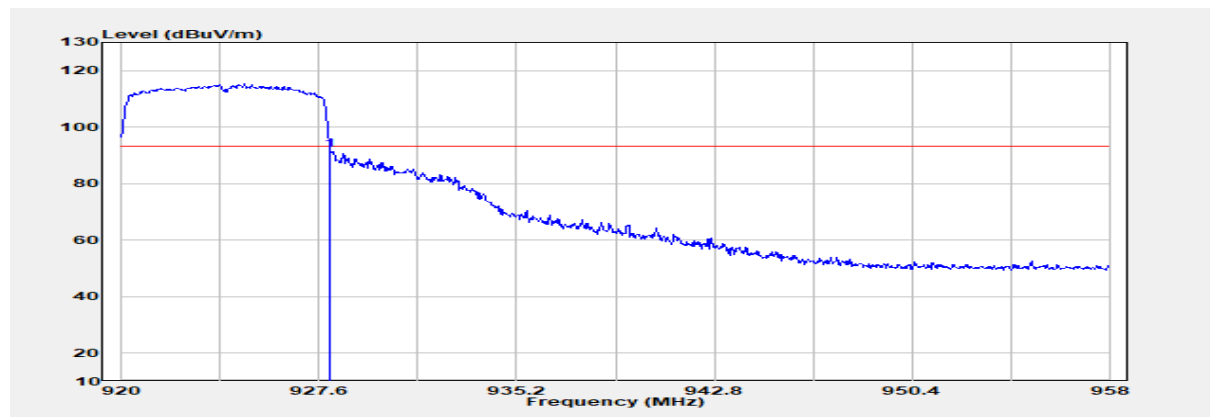
Temp./Humi. :23.1°C/62%

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
928.000	Peak	96.89	-4.86	92.03	93.35	-1.32

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :924 MHz

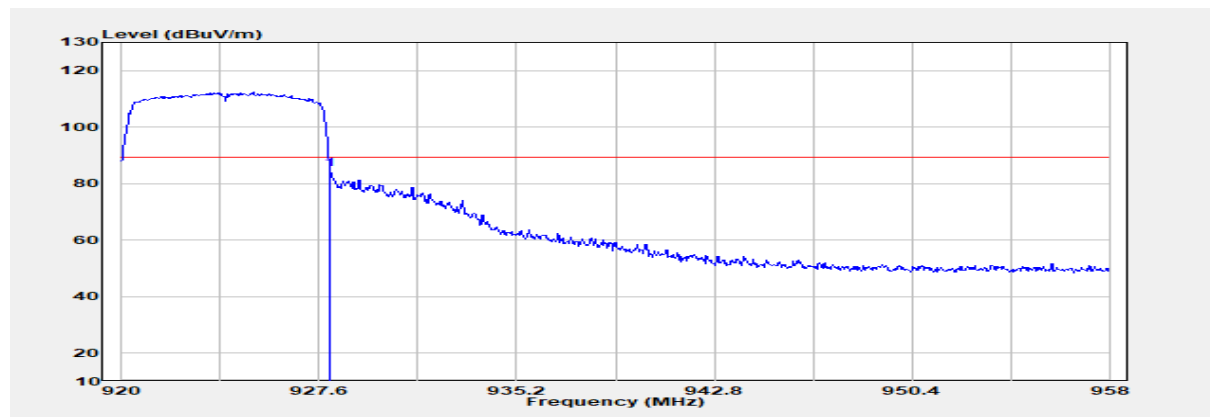
Temp./Humi. :23.1°C/62%

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	89.96	-4.86	85.10	89.28	-4.18

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Monopole

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

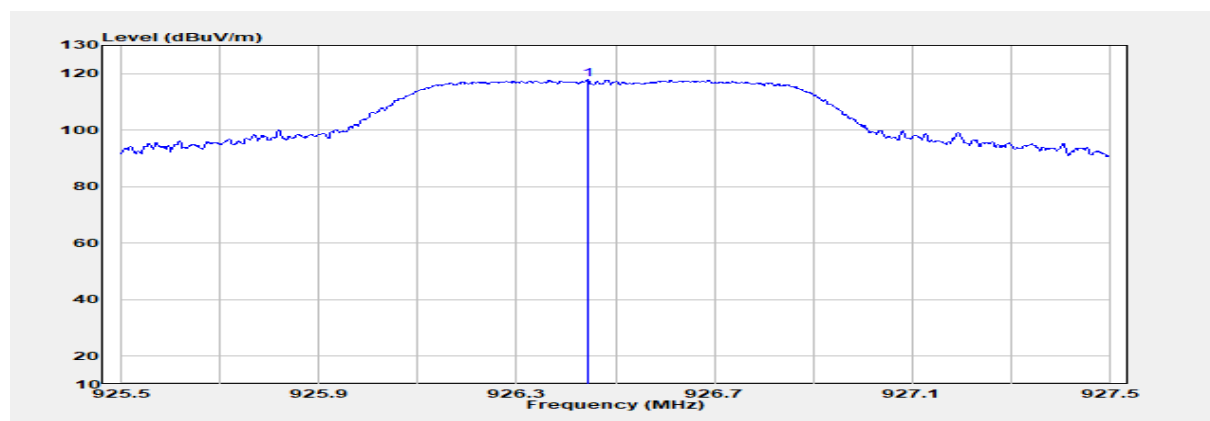
Temp./Humi. :21.1°C/63%

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
926.444	Peak	122.68	-4.87	117.81	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

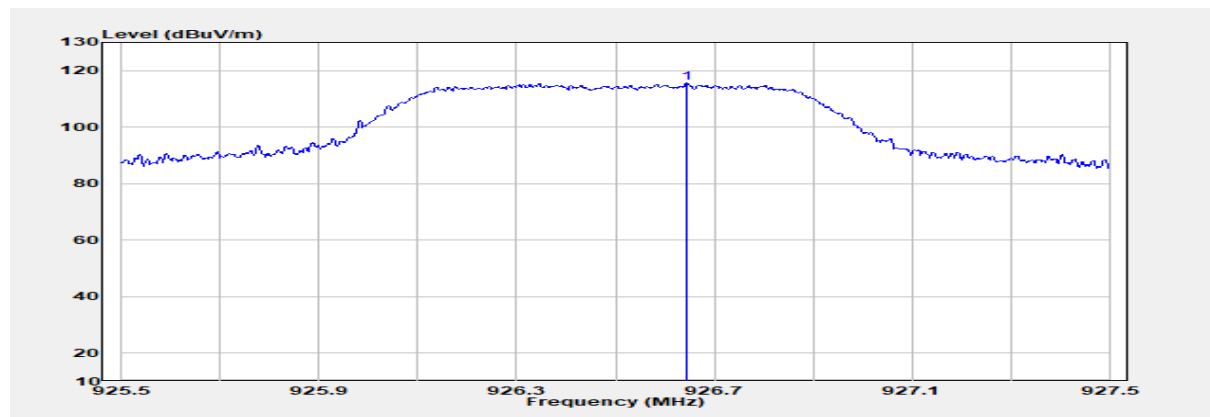
Temp./Humi. :21.1°C/63%

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
926.646	Peak	120.44	-4.87	115.57	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :915 MHz

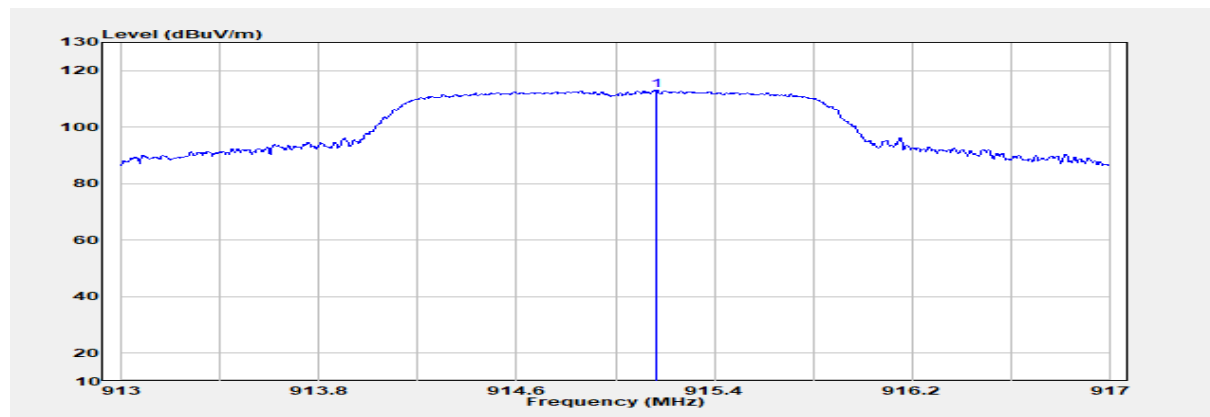
Temp./Humi. :21.9°C/65%

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
915.164	Peak	118.56	-5.31	113.25	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :915 MHz

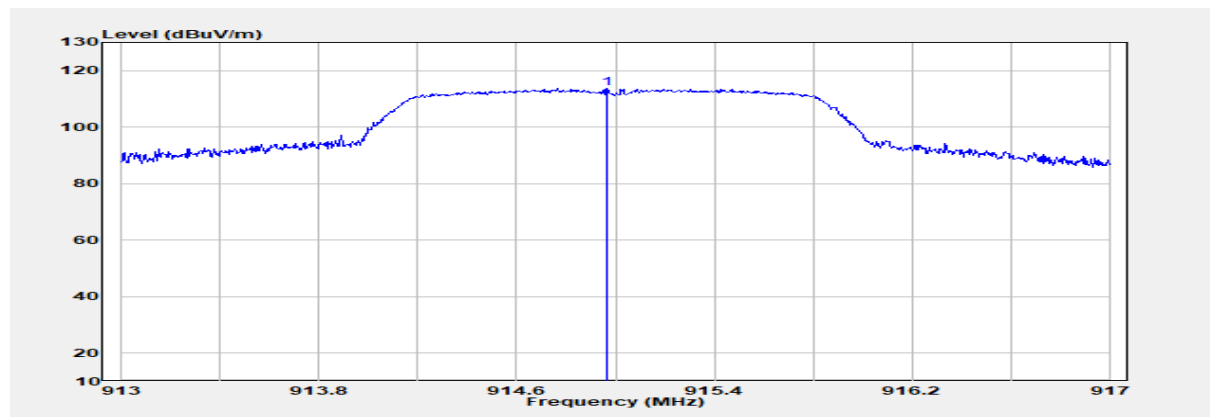
Temp./Humi. :21.9°C/65%

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
914.964	Peak	119.17	-5.32	113.85	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :926 MHz

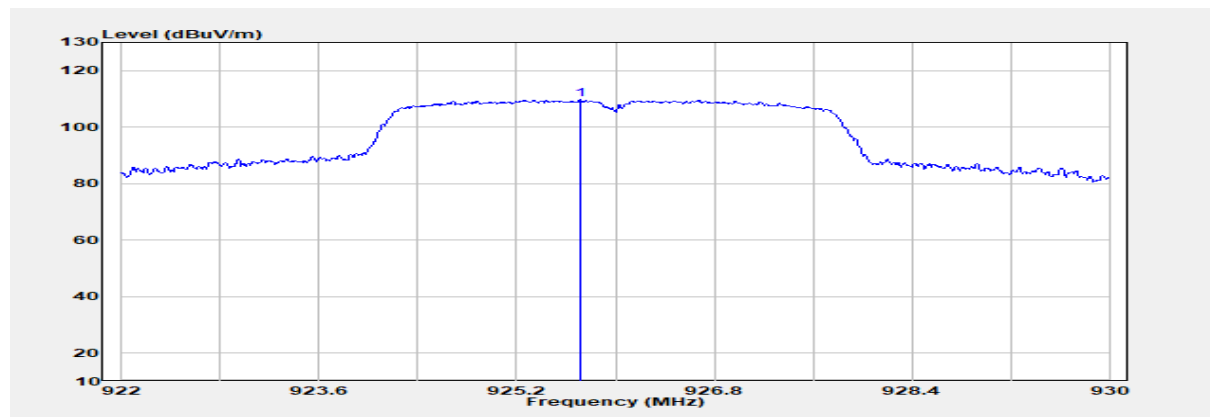
Temp./Humi. :21.9°C/65%

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
925.720	Peak	114.60	-4.88	109.73	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :926 MHz

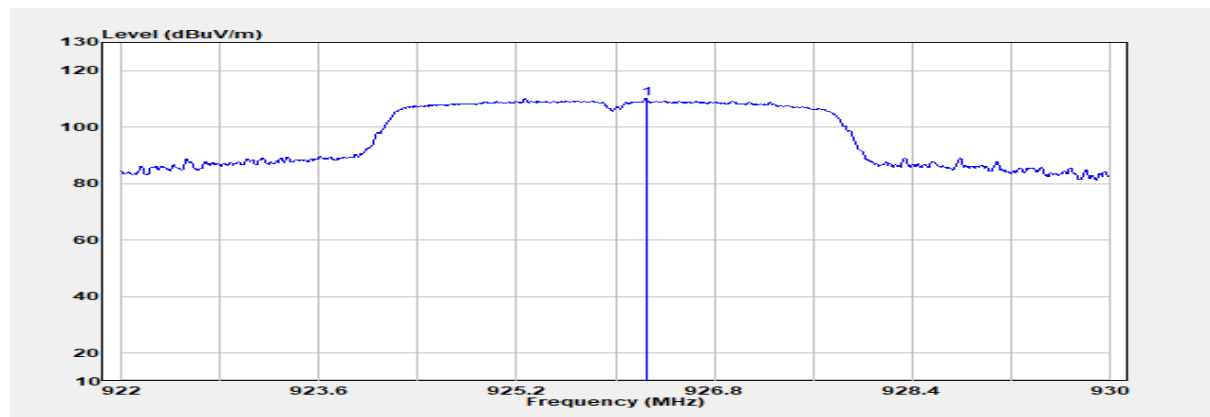
Temp./Humi. :21.9°C/65%

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
926.248	Peak	115.02	-4.87	110.15	-	-

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f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :916 MHz

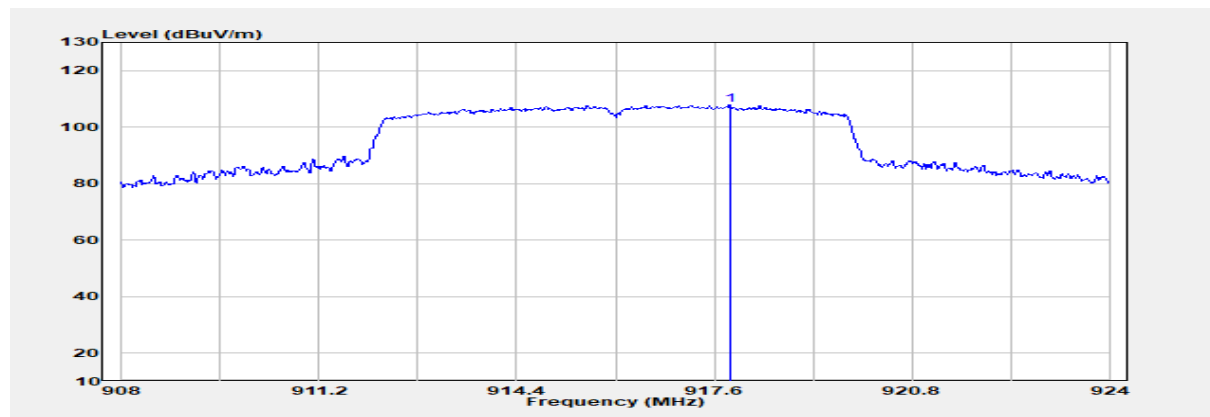
Temp./Humi. :21.9°C/65%

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
917.856	Peak	113.17	-5.23	107.94	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :916 MHz

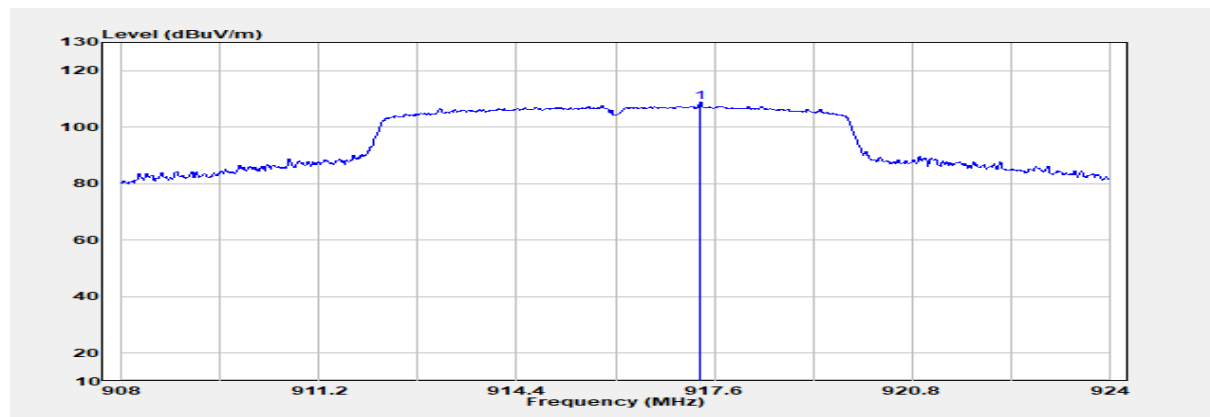
Temp./Humi. :21.9°C/65%

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
917.376	Peak	114.14	-5.25	108.89	-	-

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

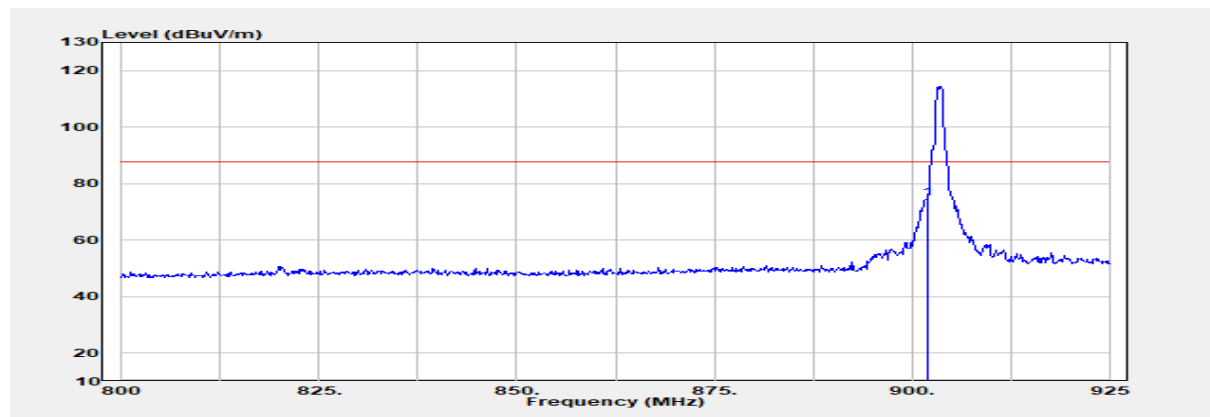
Temp./Humi. :21.1°C/63%

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	80.54	-5.82	74.71	87.81	-13.10

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

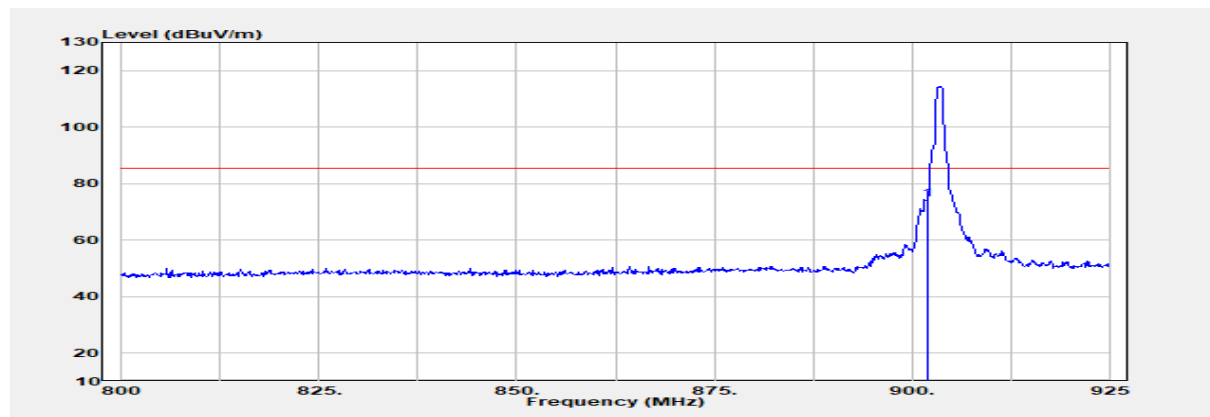
Temp./Humi. :21.1°C/63%

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	80.31	-5.82	74.48	85.57	-11.09

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

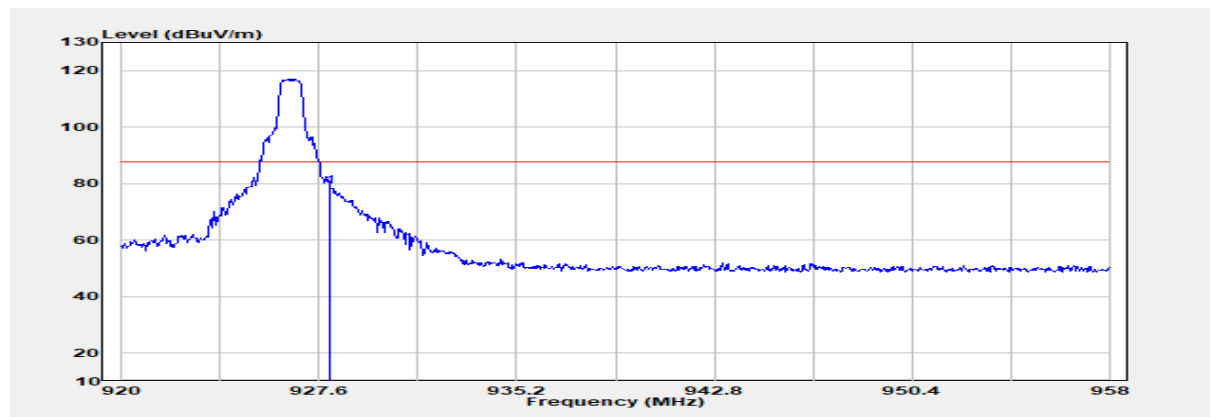
Temp./Humi. :21.1°C/63%

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	83.90	-4.86	79.05	87.81	-8.76

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

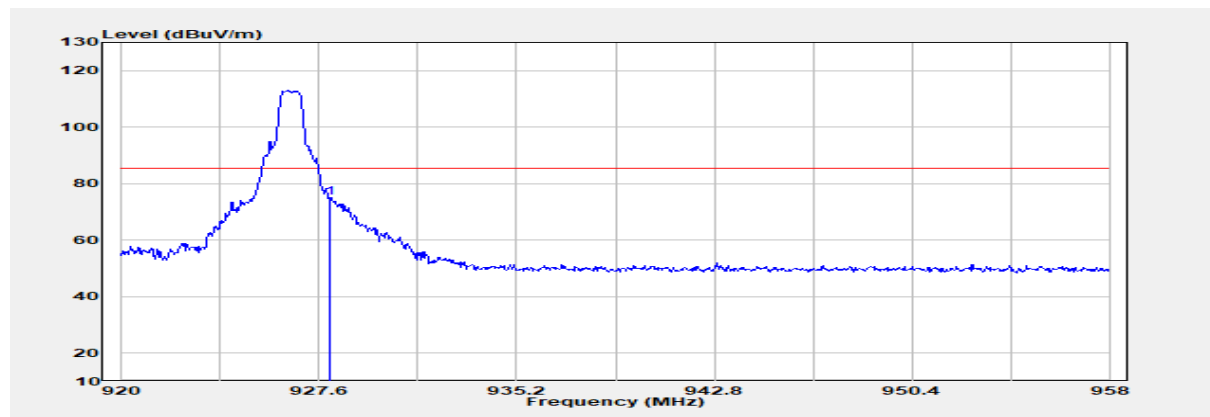
Temp./Humi. :21.1°C/63%

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	79.97	-4.86	75.11	85.57	-10.46

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :905 MHz

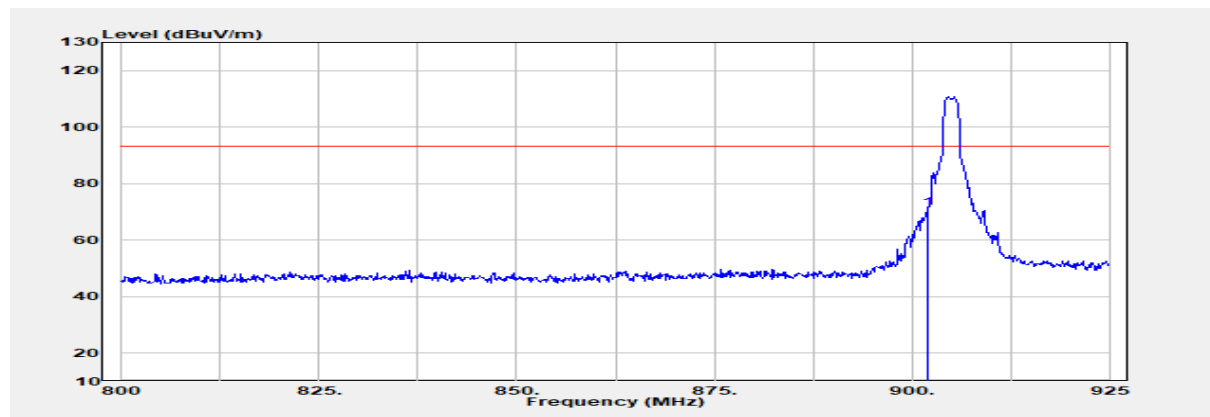
Temp./Humi. :21.9°C/65%

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	77.08	-5.82	71.26	93.25	-21.99

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :905 MHz

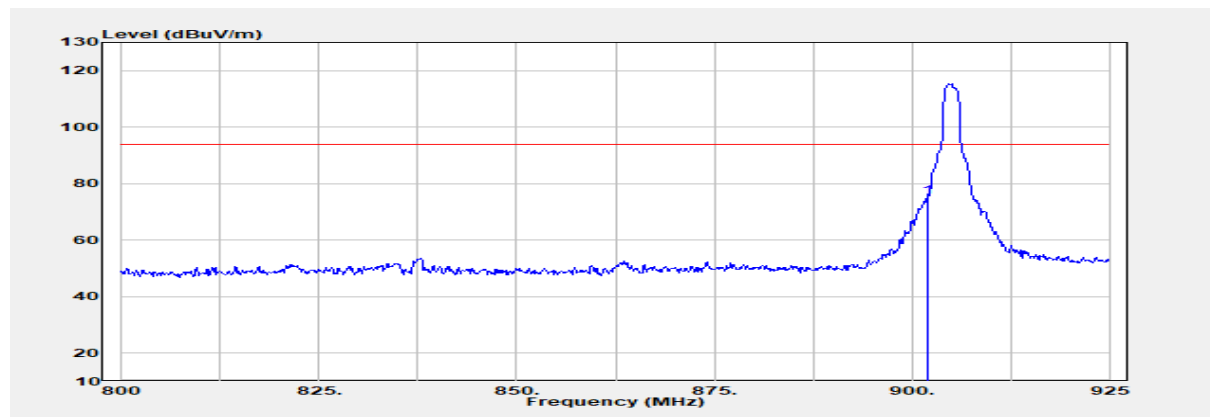
Temp./Humi. :21.9°C/65%

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	81.19	-5.82	75.36	93.85	-18.49

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :925 MHz

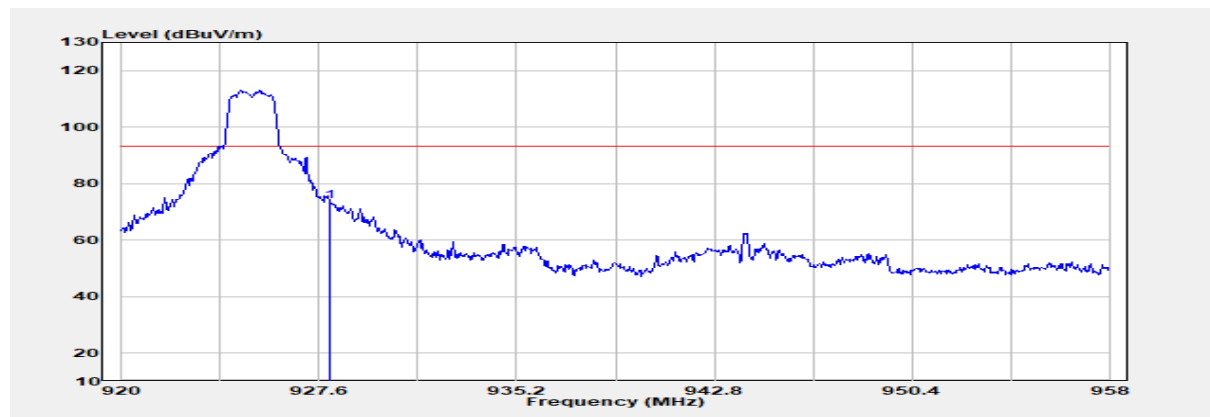
Temp./Humi. :21.9°C/65%

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	78.60	-4.86	73.74	93.25	-19.51

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :925 MHz

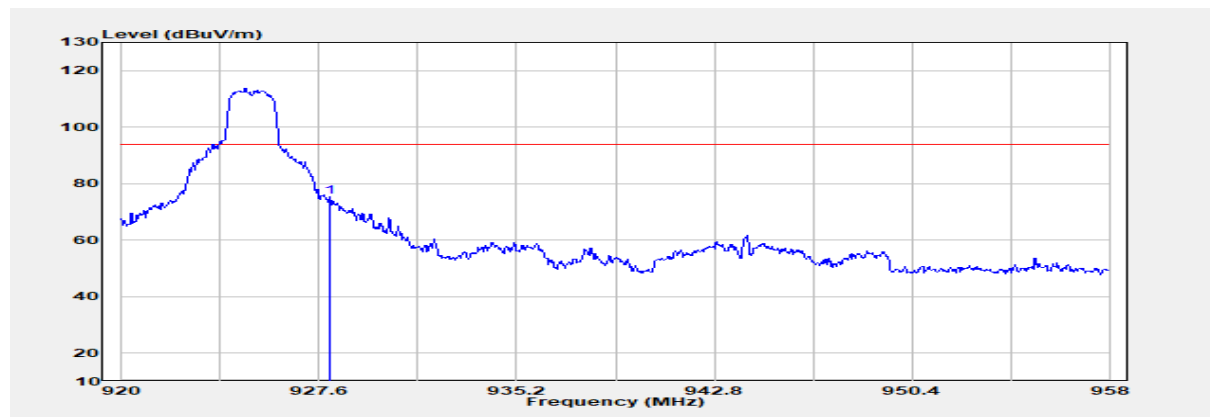
Temp./Humi. :21.9°C/65%

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
928.000	Peak	80.32	-4.86	75.46	93.85	-18.39

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :906 MHz

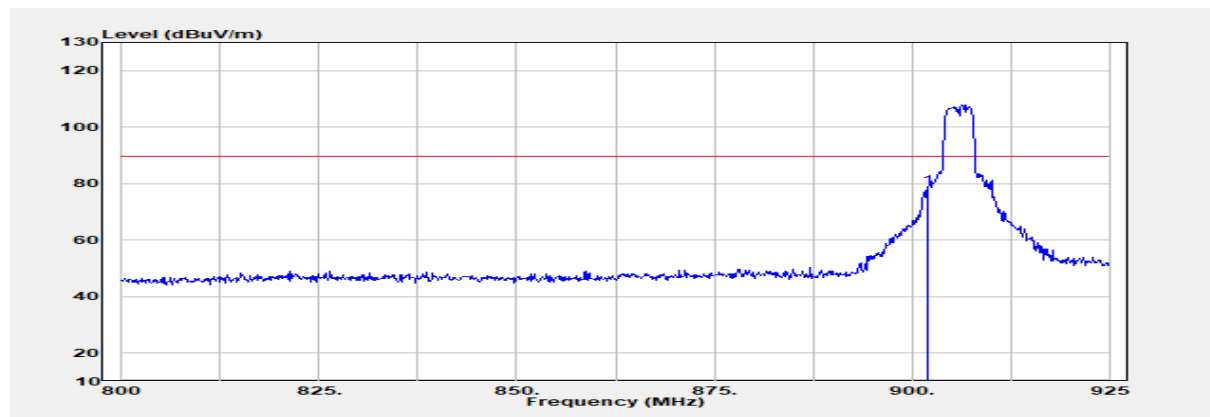
Temp./Humi. :21.9°C/65%

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
902.000	Peak	84.89	-5.82	79.07	89.73	-10.66

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :906 MHz

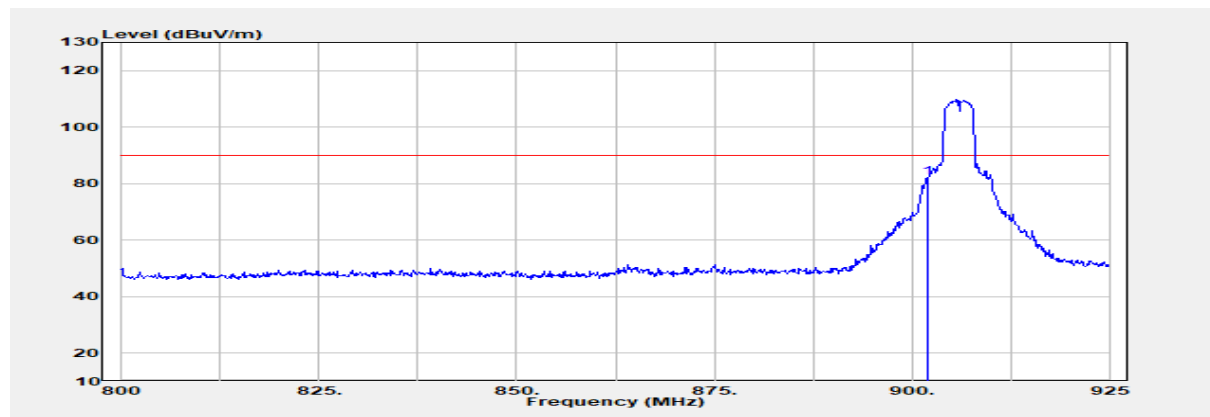
Temp./Humi. :21.9°C/65%

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
902.000	Peak	87.94	-5.82	82.11	90.15	-8.04

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :926 MHz

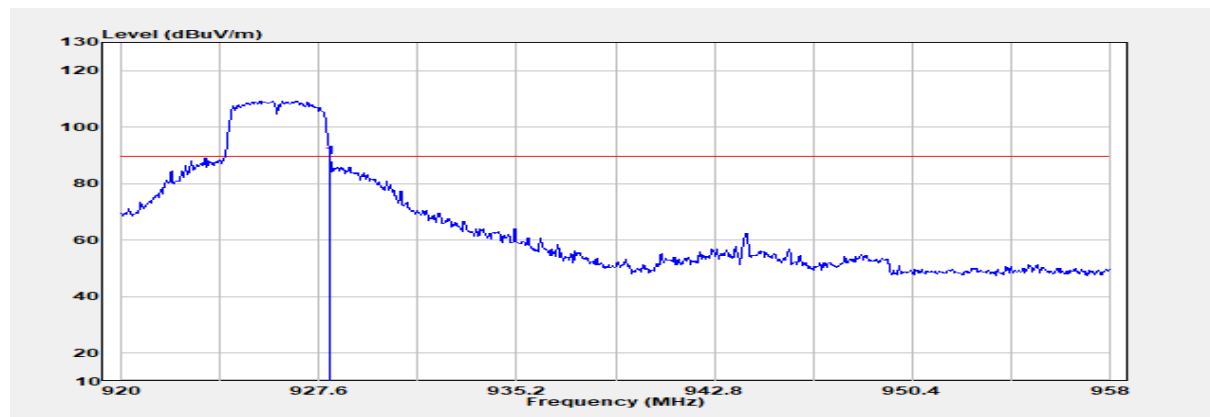
Temp./Humi. :21.9°C/65%

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	94.07	-4.86	89.21	89.73	-0.52

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :926 MHz

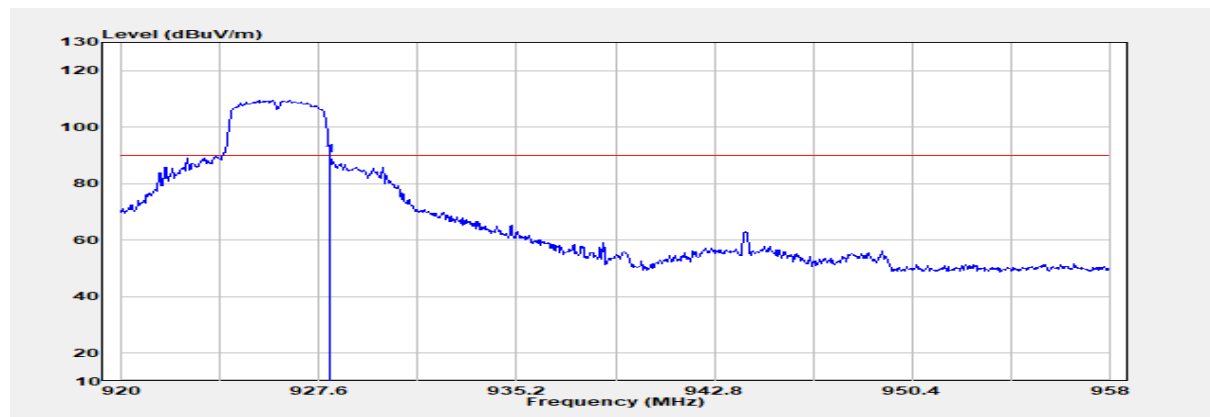
Temp./Humi. :21.9°C/65%

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	94.81	-4.86	89.95	90.15	-0.20

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Member of SGS Group

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :908 MHz

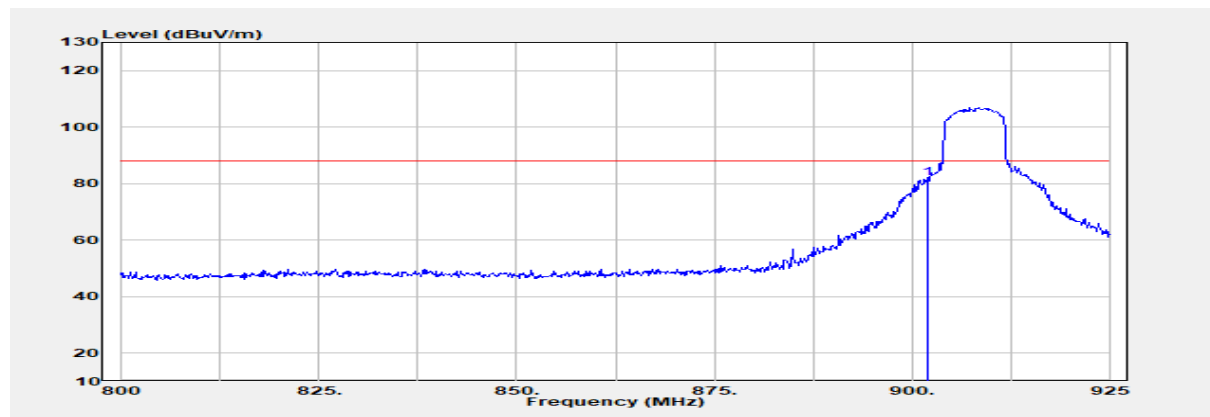
Temp./Humi. :21.9°C/65%

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	87.56	-5.82	81.74	87.94	-6.20

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :908 MHz

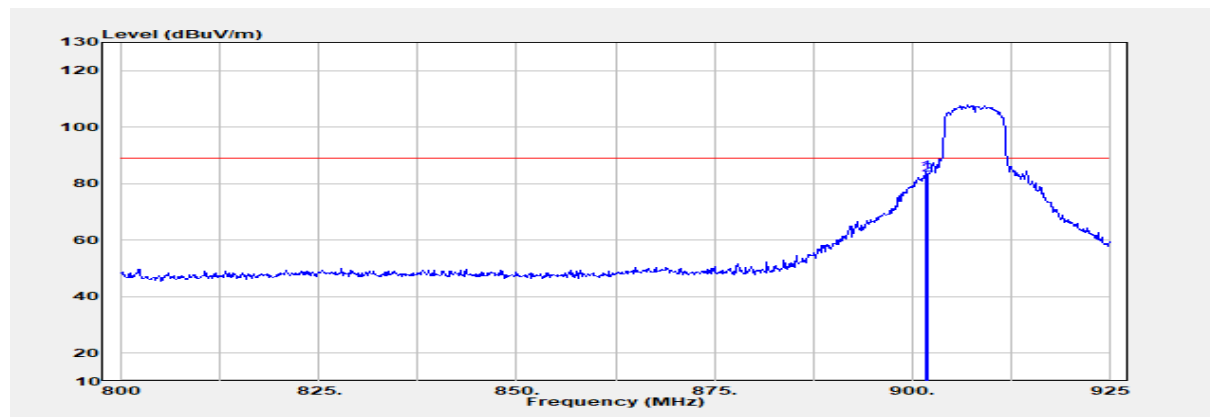
Temp./Humi. :21.9°C/65%

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
901.750	Peak	90.12	-5.83	84.29	88.89	-4.60
902.000	Peak	89.09	-5.82	83.27	88.89	-5.62

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :924 MHz

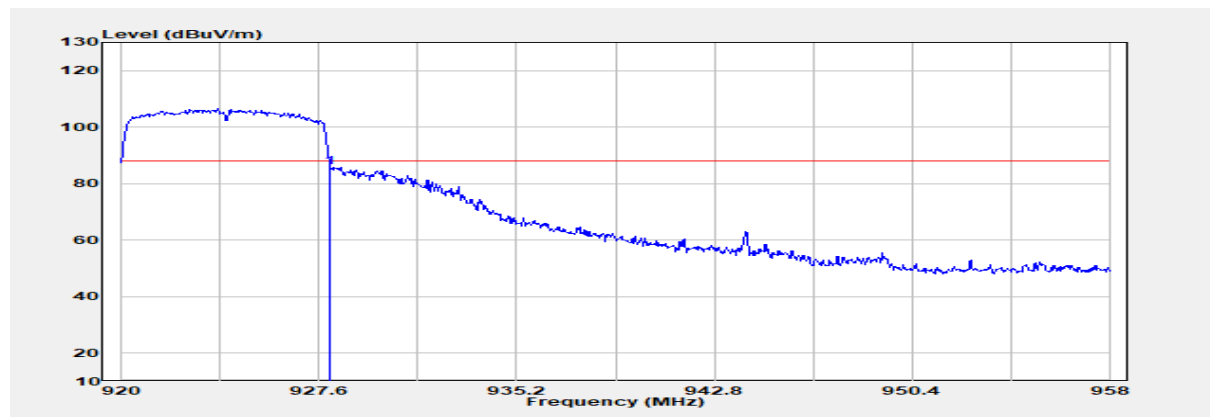
Temp./Humi. :21.9°C/65%

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
928.000	Peak	90.54	-4.86	85.68	87.94	-2.26

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :924 MHz

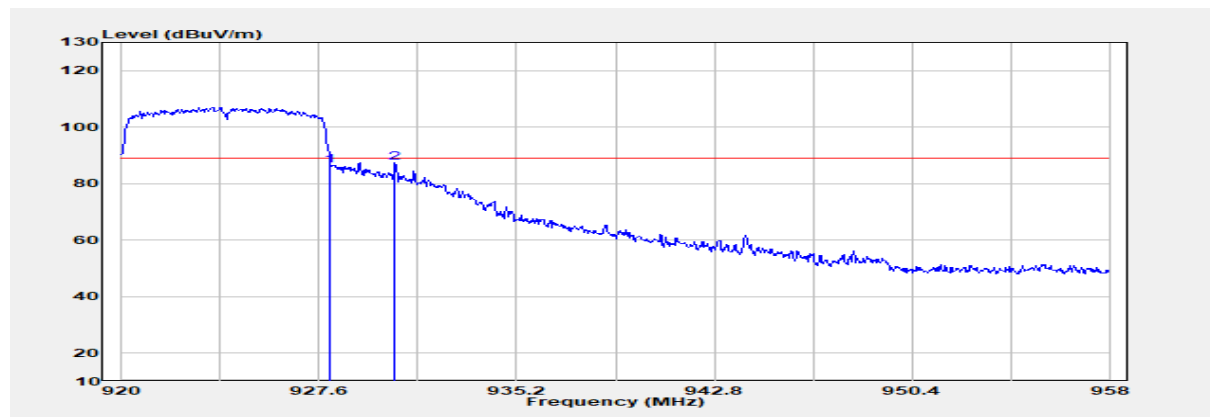
Temp./Humi. :21.9°C/65%

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	91.39	-4.86	86.53	88.89	-2.36
930.526	Peak	92.28	-4.80	87.48	88.89	-1.41

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11.6.2 Radiated Spurious Emission

Chip

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :914.5 MHz

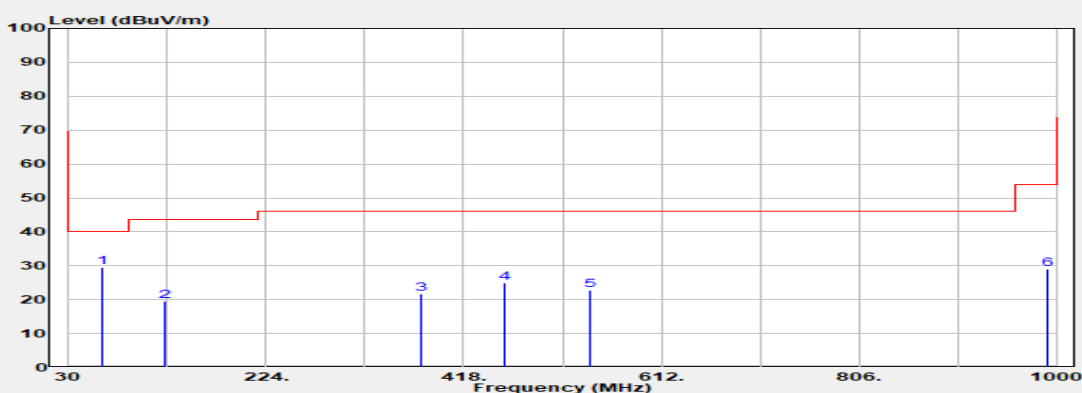
Temp./Humi. :22.4°C/64%

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
62.010	QP	47.63	-18.05	29.57	40.00	-10.43
125.060	QP	38.54	-19.08	19.46	43.50	-24.04
375.320	QP	35.61	-13.82	21.79	46.00	-24.21
458.740	QP	36.97	-11.94	25.03	46.00	-20.97
542.160	QP	33.64	-10.80	22.84	46.00	-23.16
992.240	Peak	33.72	-4.74	28.98	54.00	-25.02

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :914.5 MHz

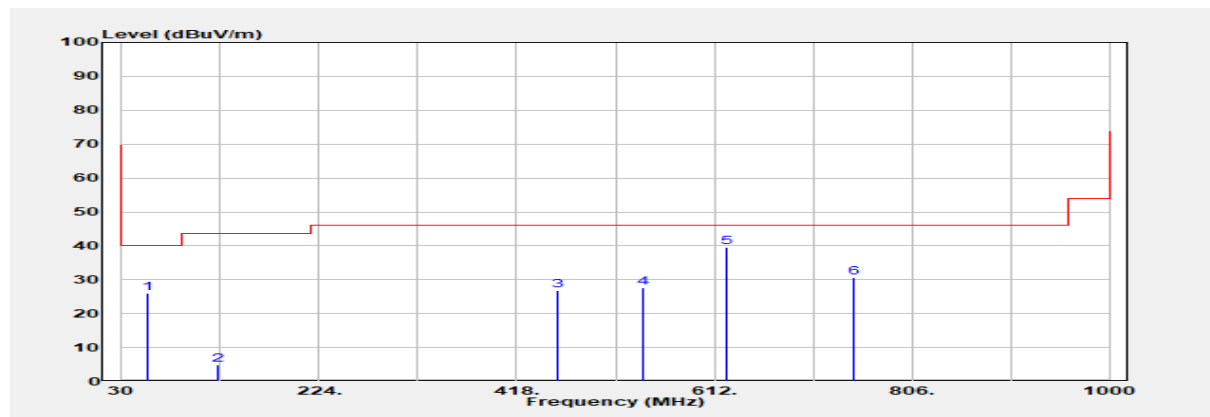
Temp./Humi. :22.4°C/64%

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
55.220	Peak	42.98	-17.03	25.96	40.00	-14.04
125.060	QP	23.87	-19.08	4.80	43.50	-38.70
458.740	QP	38.65	-11.94	26.71	46.00	-19.29
542.160	QP	38.41	-10.80	27.61	46.00	-18.39
624.610	Peak	47.86	-8.21	39.65	46.00	-6.35
749.740	Peak	37.46	-6.77	30.69	46.00	-15.31

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :915 MHz

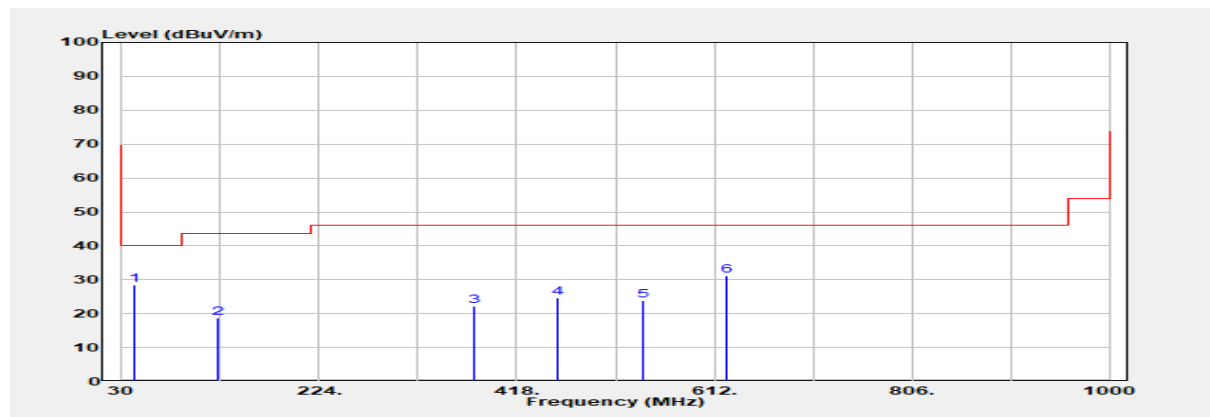
Temp./Humi. :22.4°C/64%

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
41.640	QP	46.26	-17.76	28.50	40.00	-11.50
125.060	QP	37.67	-19.08	18.59	43.50	-24.91
375.320	QP	35.97	-13.82	22.15	46.00	-23.85
458.740	QP	36.57	-11.94	24.64	46.00	-21.36
542.160	QP	34.59	-10.80	23.78	46.00	-22.22
624.610	Peak	39.44	-8.21	31.23	46.00	-14.77

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :915 MHz

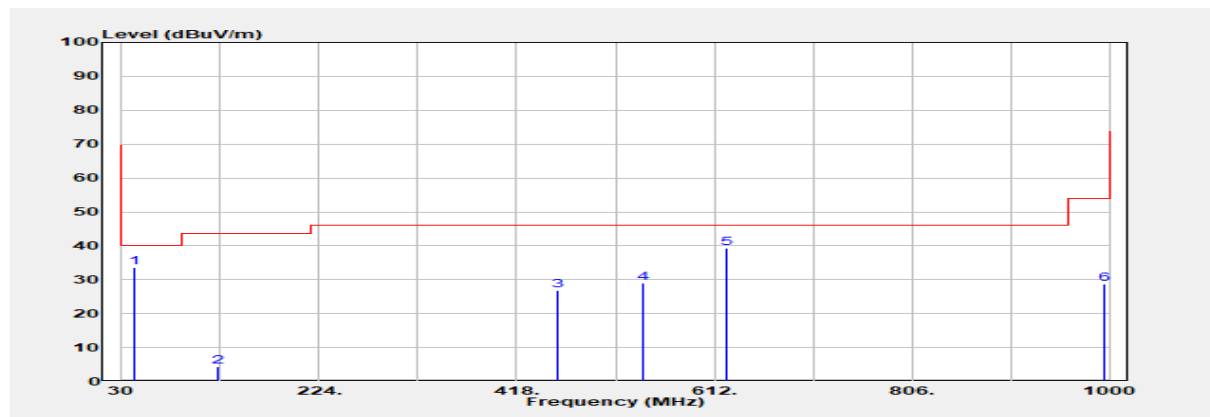
Temp./Humi. :22.4°C/64%

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
41.640	Peak	51.33	-17.76	33.57	40.00	-6.43
125.060	QP	23.41	-19.08	4.34	43.50	-39.16
458.740	QP	38.85	-11.94	26.92	46.00	-19.08
542.160	QP	39.75	-10.80	28.94	46.00	-17.06
624.610	Peak	47.58	-8.21	39.37	46.00	-6.63
995.150	Peak	33.36	-4.59	28.77	54.00	-25.23

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :914 MHz

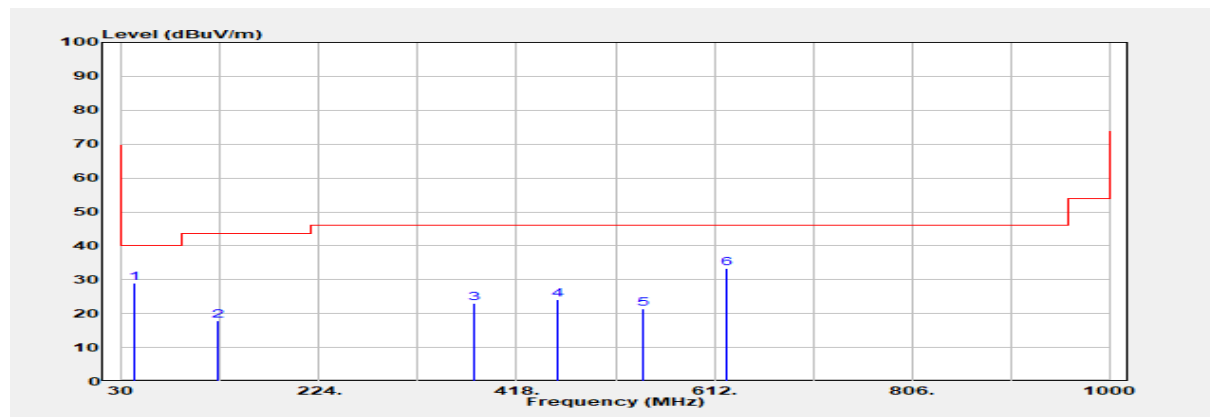
Temp./Humi. :22.4°C/64%

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
41.640	QP	46.85	-17.76	29.09	40.00	-10.91
125.060	QP	36.87	-19.08	17.80	43.50	-25.70
375.320	QP	36.87	-13.82	23.05	46.00	-22.95
458.740	QP	35.98	-11.94	24.04	46.00	-21.96
542.160	QP	32.32	-10.80	21.51	46.00	-24.49
624.610	Peak	41.57	-8.21	33.36	46.00	-12.64

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :914 MHz

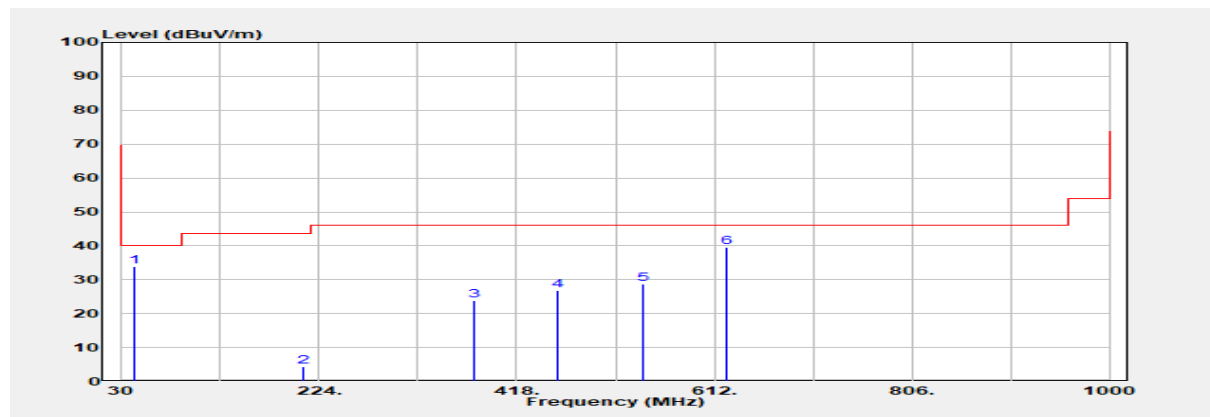
Temp./Humi. :22.4°C/64%

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
41.640	Peak	51.64	-17.76	33.88	40.00	-6.12
208.480	QP	24.65	-20.25	4.40	43.50	-39.10
375.320	QP	37.62	-13.82	23.80	46.00	-22.20
458.740	QP	38.81	-11.94	26.87	46.00	-19.13
542.160	QP	39.61	-10.80	28.81	46.00	-17.19
624.610	Peak	47.82	-8.21	39.61	46.00	-6.39

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :916 MHz

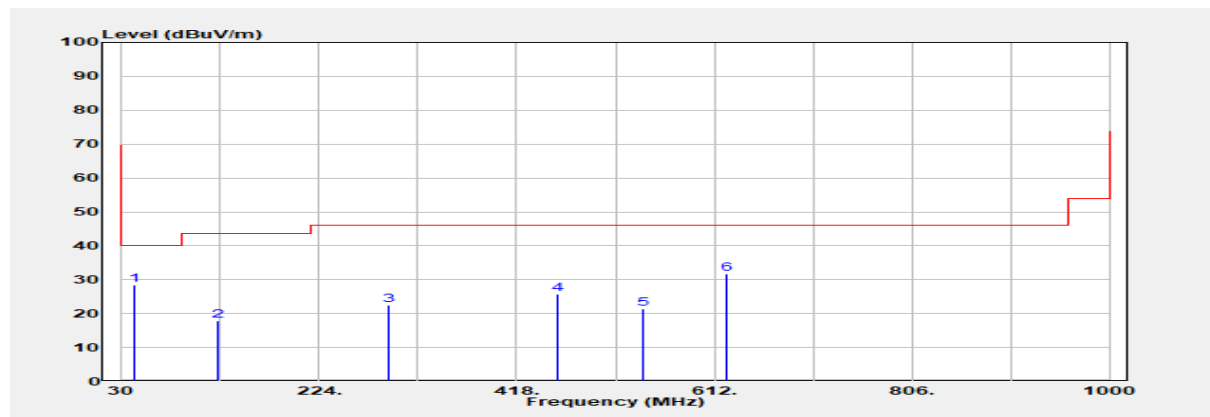
Temp./Humi. :22.4°C/64%

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
41.640	QP	46.22	-17.76	28.46	40.00	-11.54
125.060	QP	36.85	-19.08	17.78	43.50	-25.72
291.900	QP	38.64	-16.05	22.60	46.00	-23.40
458.740	QP	37.65	-11.94	25.71	46.00	-20.29
541.190	QP	32.16	-10.84	21.32	46.00	-24.68
624.610	Peak	39.79	-8.21	31.58	46.00	-14.42

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :916 MHz

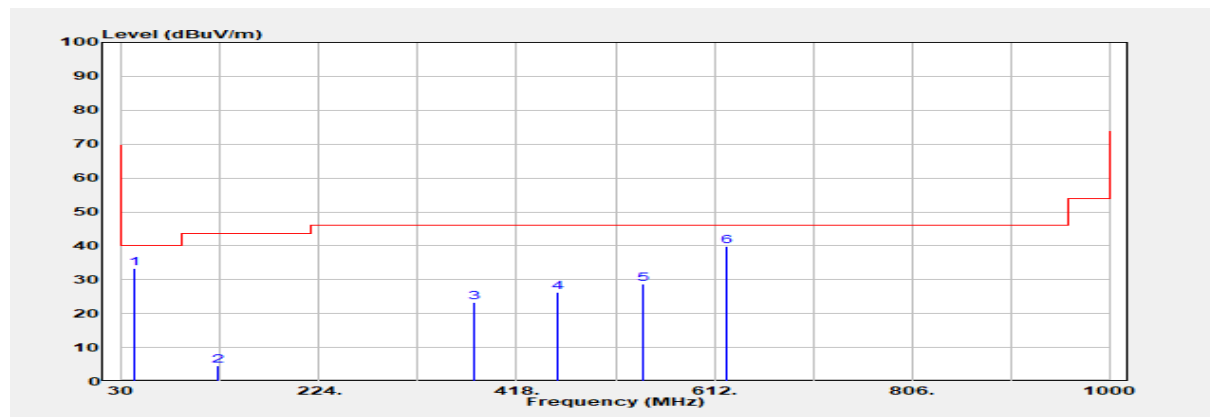
Temp./Humi. :22.4°C/64%

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
41.640	Peak	51.18	-17.76	33.43	40.00	-6.57
125.060	QP	23.64	-19.08	4.56	43.50	-38.94
375.320	QP	37.12	-13.82	23.30	46.00	-22.70
458.740	QP	38.21	-11.94	26.28	46.00	-19.72
542.160	QP	39.64	-10.80	28.84	46.00	-17.16
624.610	Peak	47.92	-8.21	39.72	46.00	-6.28

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :903.5 MHz

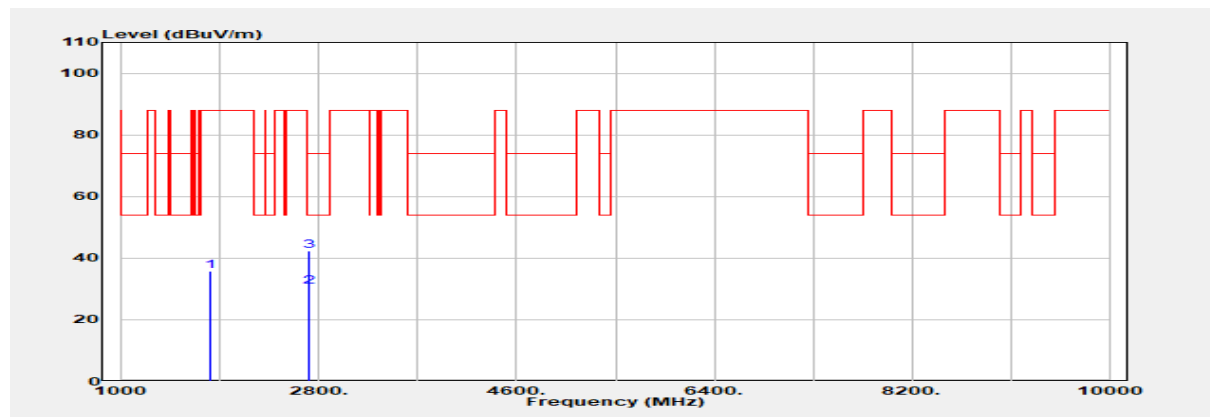
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1807.000	Peak	43.64	-7.91	35.73	88.01	-52.28
2710.500	Average	34.31	-3.64	30.67	54.00	-23.33
2710.500	Peak	46.00	-3.64	42.36	74.00	-31.64

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :903.5 MHz

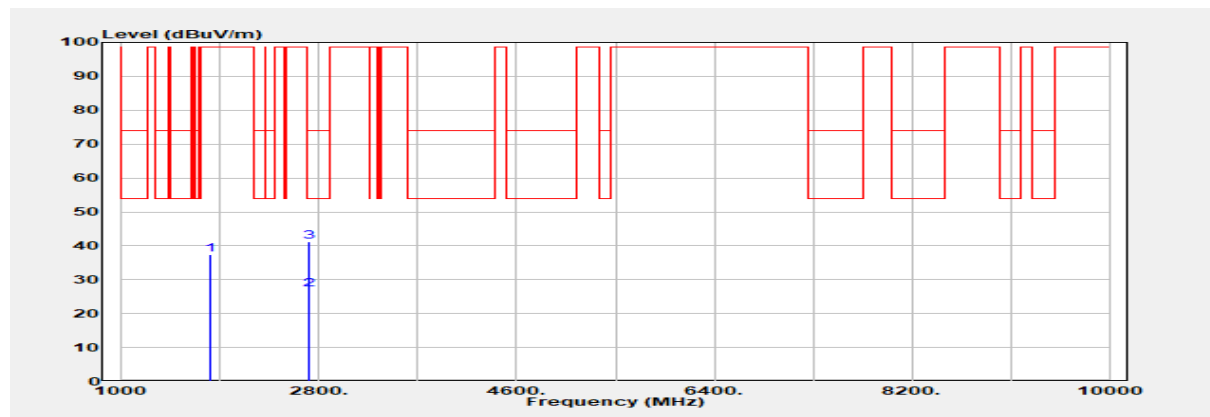
Temp./Humi. :22.4°C/64%

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
1807.000	Peak	45.28	-7.91	37.37	98.55	-61.18
2710.500	Average	30.70	-3.64	27.06	54.00	-26.94
2710.500	Peak	44.81	-3.64	41.17	74.00	-32.83

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :914.5 MHz

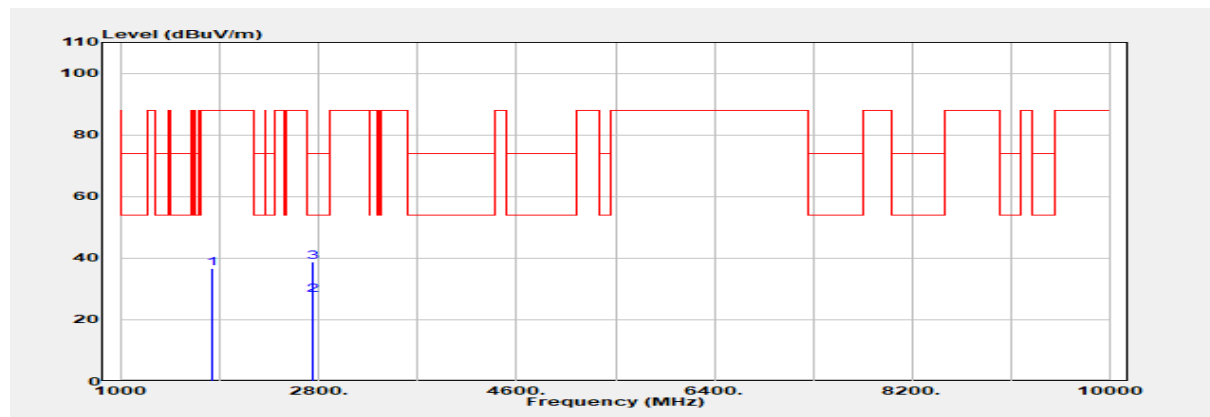
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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
1829.000	Peak	44.47	-7.87	36.60	88.01	-51.41
2743.500	Average	32.02	-3.95	28.07	54.00	-25.93
2743.500	Peak	42.75	-3.95	38.79	74.00	-35.21

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :914.5 MHz

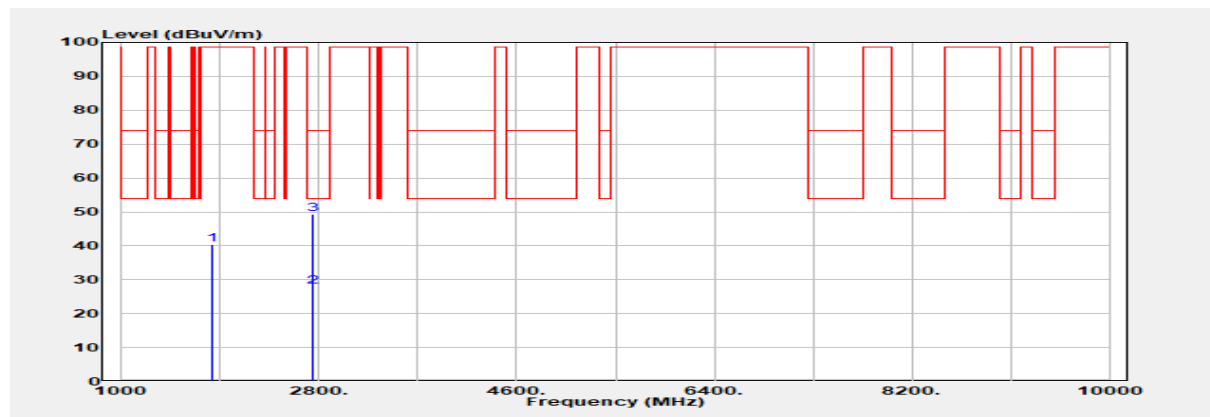
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1829.000	Peak	48.16	-7.87	40.28	98.55	-58.27
2743.500	Average	31.77	-3.95	27.81	54.00	-26.19
2743.500	Peak	53.26	-3.95	49.31	74.00	-24.69

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :926.5 MHz

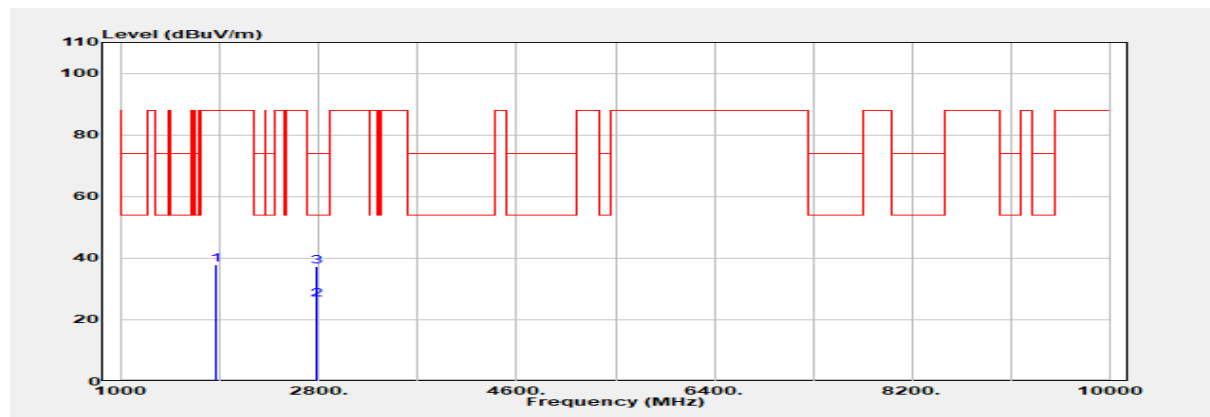
Temp./Humi. :22.4°C/64%

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	50.74	-7.84	42.90	85.15	-42.25
2779.500	Average	35.71	-4.08	31.64	54.00	-22.36
2779.500	Peak	46.87	-4.08	42.80	74.00	-31.20

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-31

Test Frequency :926.5 MHz

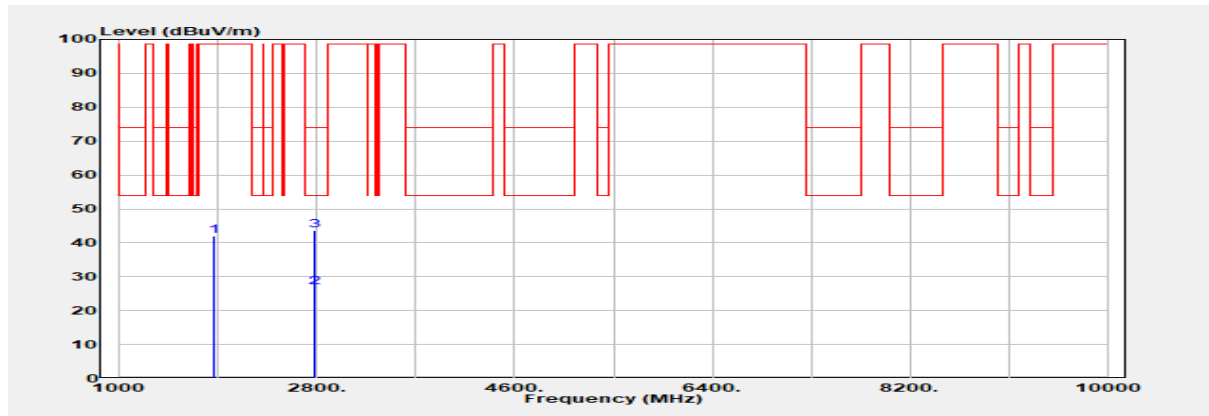
Temp./Humi. :22.4°C/64%

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	54.16	-7.84	46.32	91.65	-45.33
2779.500	Average	36.68	-4.08	32.61	54.00	-21.39
2779.500	Peak	53.78	-4.08	49.71	74.00	-24.29

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :905 MHz

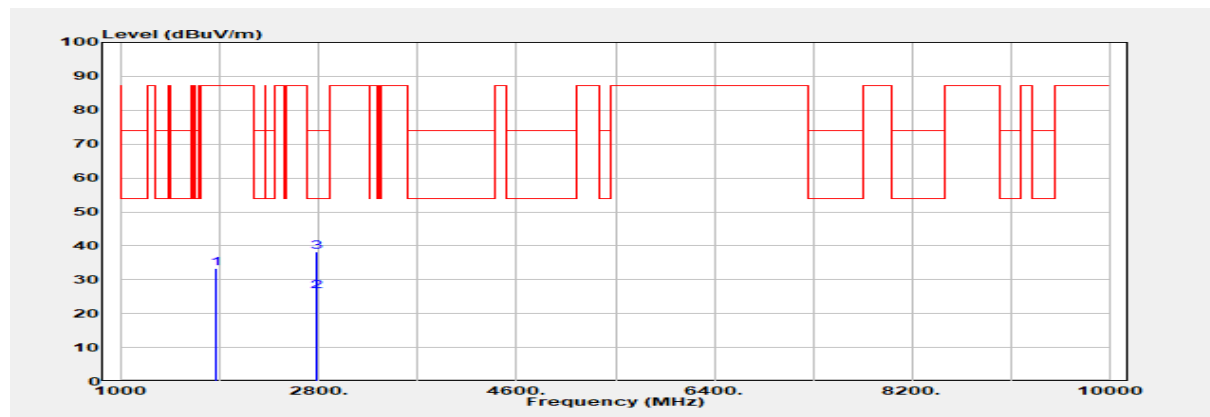
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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
1851.000	Peak	41.23	-7.84	33.39	87.30	-53.91
2776.500	Average	30.59	-4.08	26.51	54.00	-27.49
2776.500	Peak	42.26	-4.08	38.19	74.00	-35.81

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :905 MHz

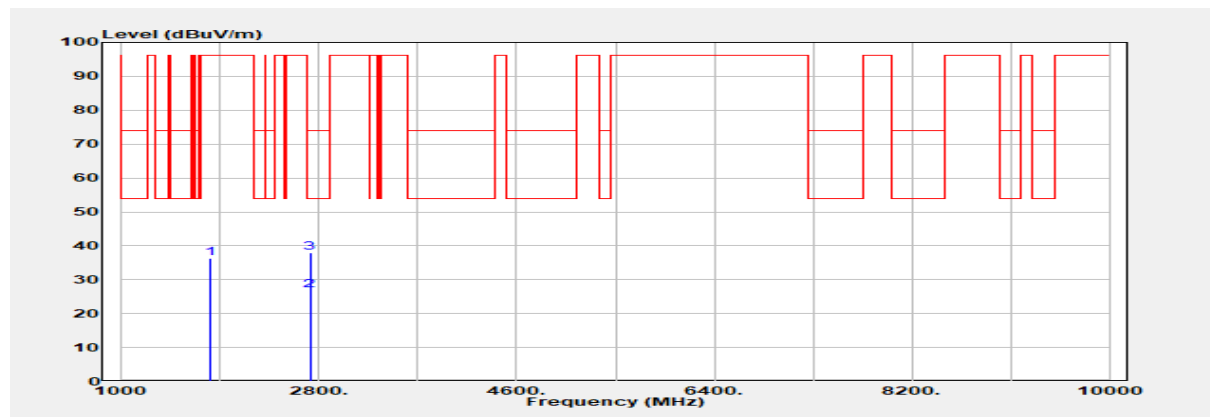
Temp./Humi. :22.4°C/64%

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
1810.000	Peak	44.20	-7.90	36.30	96.21	-59.91
2715.000	Average	30.54	-3.68	26.85	54.00	-27.15
2715.000	Peak	41.55	-3.68	37.86	74.00	-36.14

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :915 MHz

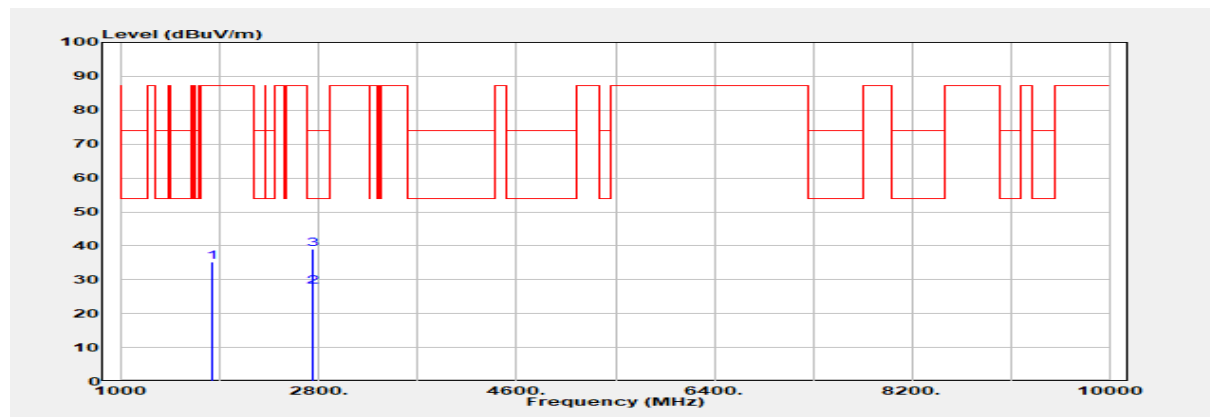
Temp./Humi. :22.4°C/64%

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	43.14	-7.87	35.27	87.30	-52.03
2745.000	Average	31.81	-3.97	27.84	54.00	-26.16
2745.000	Peak	43.08	-3.97	39.11	74.00	-34.89

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :915 MHz

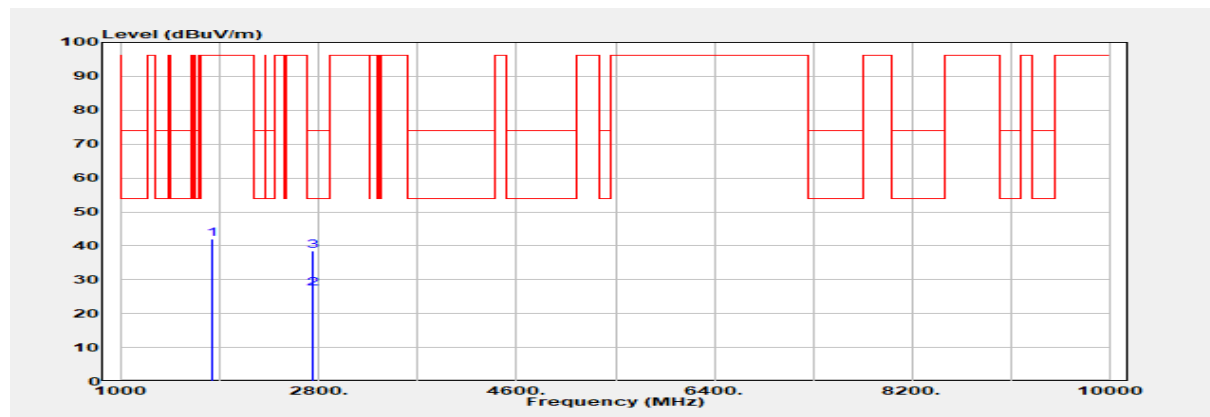
Temp./Humi. :22.4°C/64%

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	49.81	-7.87	41.94	96.21	-54.27
2745.000	Average	31.35	-3.97	27.38	54.00	-26.62
2745.000	Peak	42.50	-3.97	38.53	74.00	-35.47

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :925 MHz

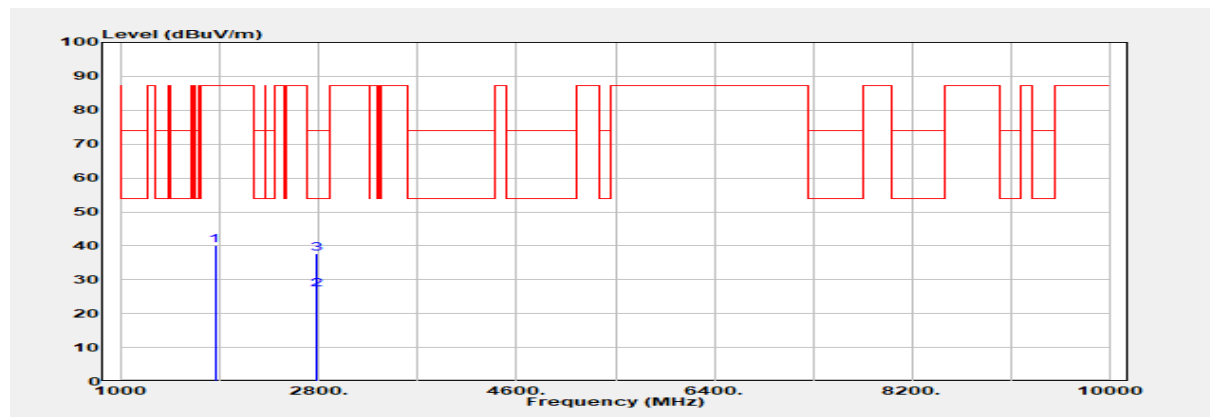
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1850.000	Peak	48.08	-7.84	40.24	87.30	-47.06
2775.000	Average	31.09	-4.07	27.02	54.00	-26.98
2775.000	Peak	41.76	-4.07	37.69	74.00	-36.31

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-31

Test Frequency :925 MHz

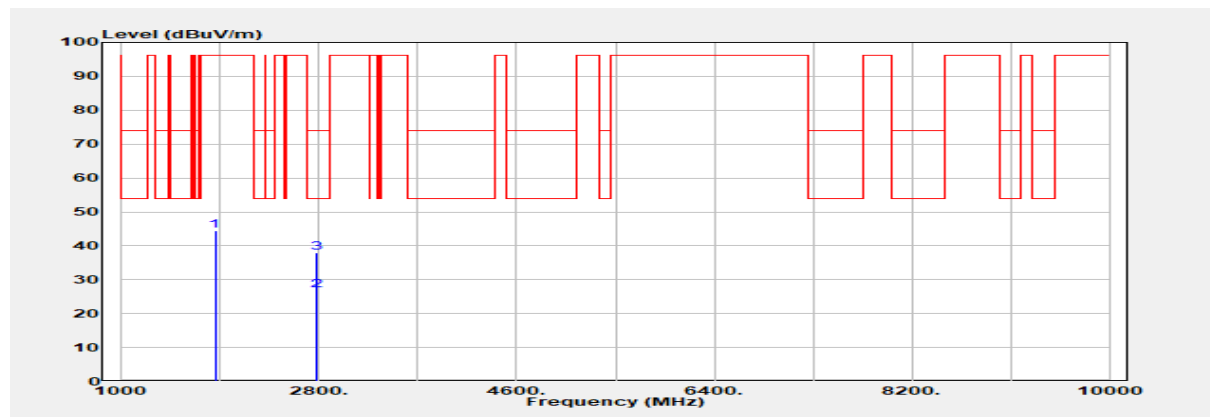
Temp./Humi. :22.4°C/64%

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
1850.000	Peak	52.35	-7.84	44.51	96.21	-51.70
2775.000	Average	30.81	-4.07	26.74	54.00	-27.26
2775.000	Peak	42.08	-4.07	38.01	74.00	-35.99

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :906 MHz

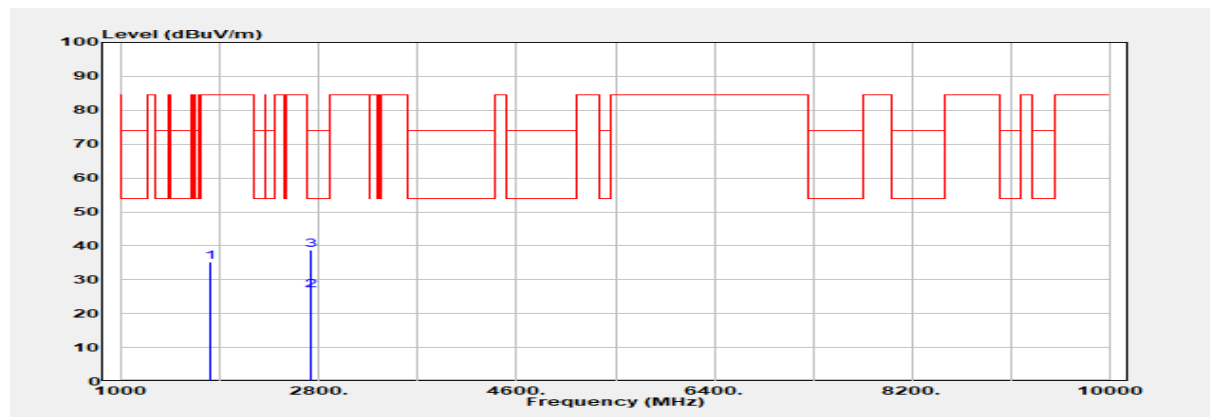
Temp./Humi. :22.4°C/64%

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	43.05	-7.90	35.15	84.60	-49.45
2718.000	Average	30.59	-3.71	26.88	54.00	-27.12
2718.000	Peak	42.51	-3.71	38.80	74.00	-35.20

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :906 MHz

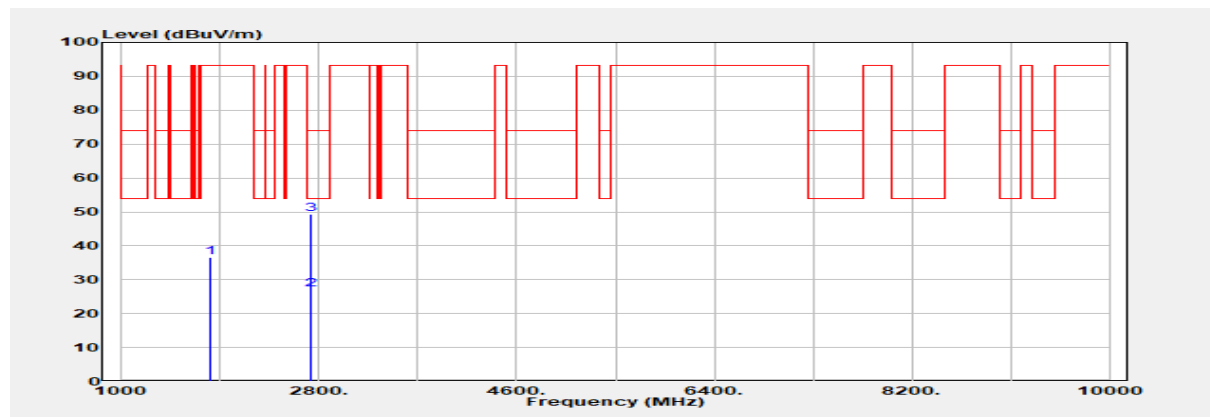
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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
1812.000	Peak	44.49	-7.90	36.59	93.26	-56.67
2718.000	Average	30.92	-3.71	27.21	54.00	-26.79
2718.000	Peak	52.91	-3.71	49.20	74.00	-24.80

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :914 MHz

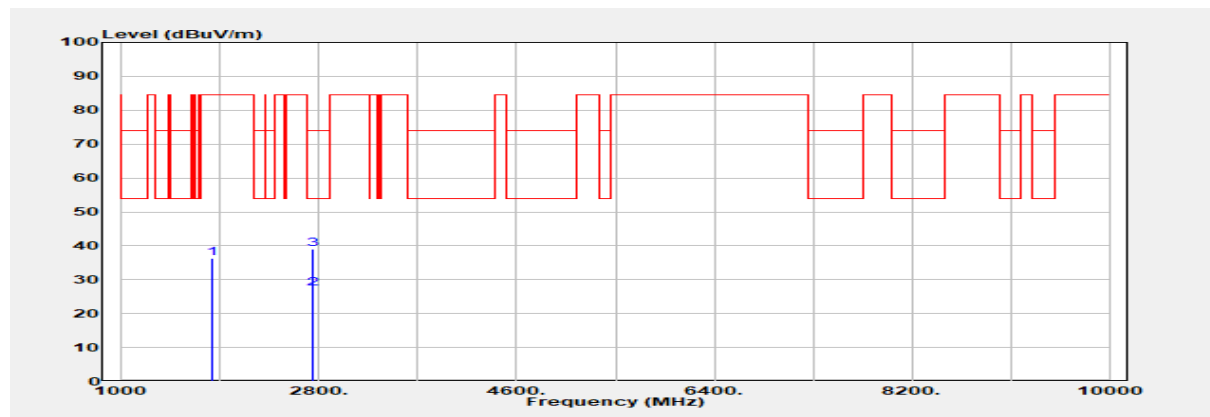
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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
1828.000	Peak	44.12	-7.87	36.24	84.60	-48.36
2742.000	Average	31.36	-3.94	27.42	54.00	-26.58
2742.000	Peak	43.02	-3.94	39.08	74.00	-34.92

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :914 MHz

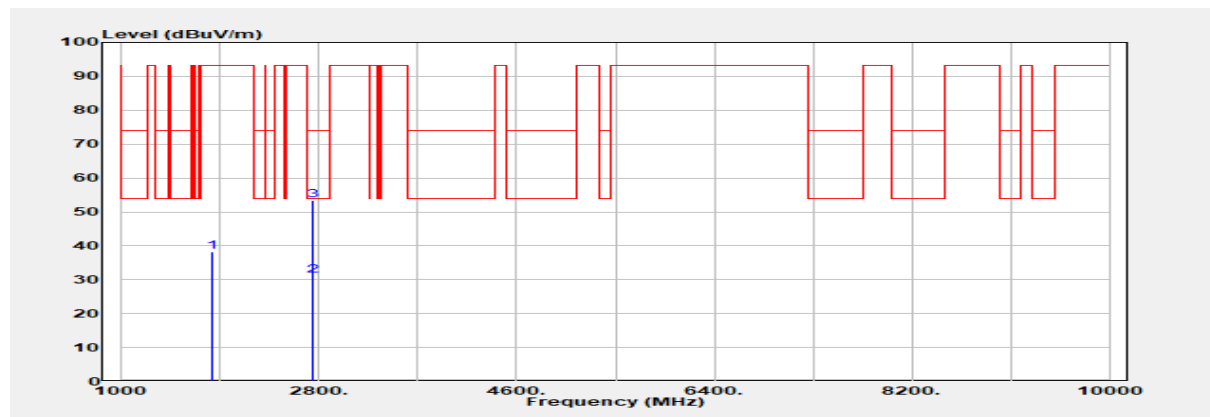
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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
1828.000	Peak	46.19	-7.87	38.32	93.26	-54.94
2742.000	Average	35.22	-3.94	31.28	54.00	-22.72
2742.000	Peak	57.32	-3.94	53.39	74.00	-20.61

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :926 MHz

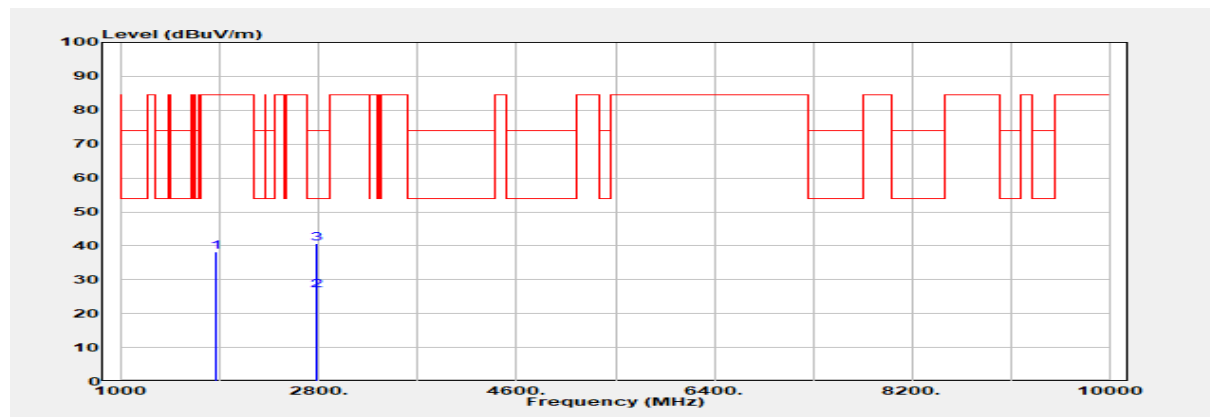
Temp./Humi. :22.4°C/64%

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	46.18	-7.84	38.34	84.60	-46.26
2778.000	Average	31.00	-4.08	26.92	54.00	-27.08
2778.000	Peak	44.76	-4.08	40.69	74.00	-33.32

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-31

Test Frequency :926 MHz

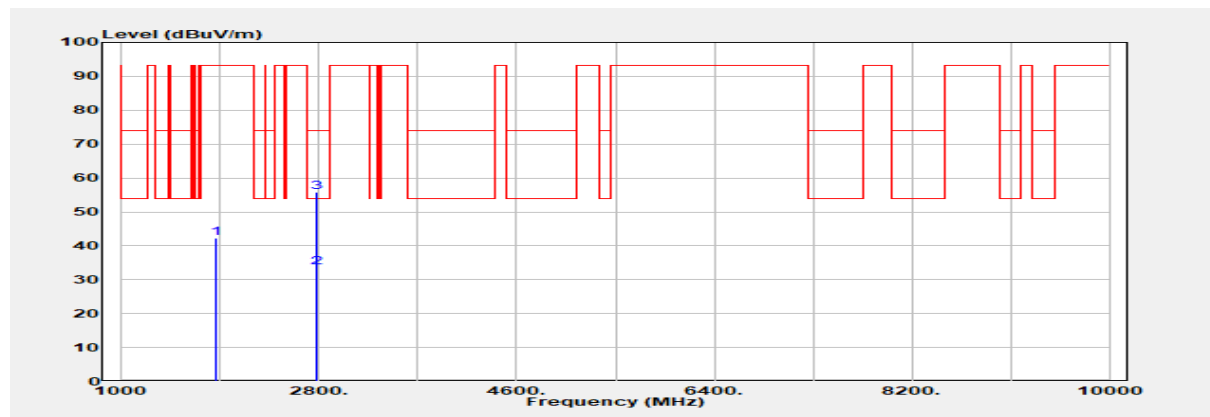
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1852.000	Peak	50.06	-7.84	42.22	93.26	-51.04
2778.000	Average	37.68	-4.08	33.60	54.00	-20.40
2778.000	Peak	60.03	-4.08	55.95	74.00	-18.05

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :908 MHz

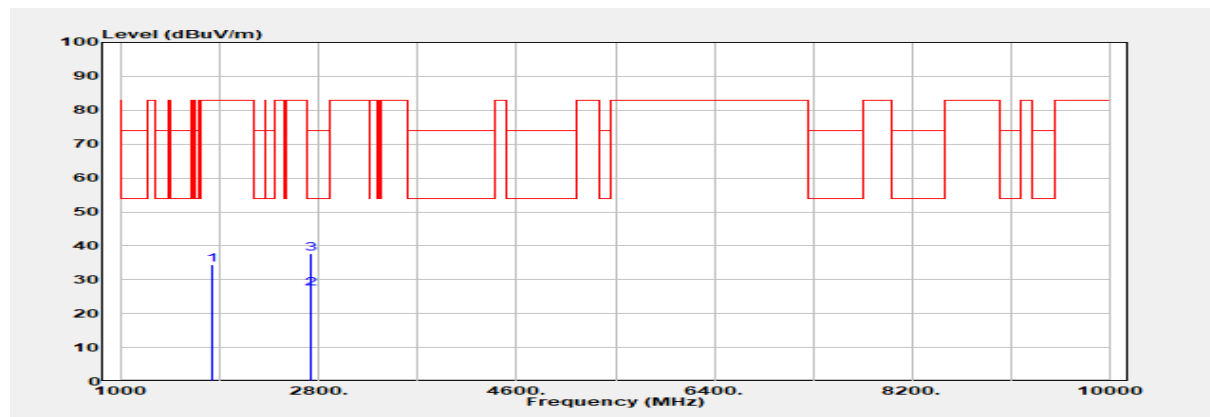
Temp./Humi. :22.4°C/64%

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	42.27	-7.89	34.37	82.98	-48.61
2724.000	Average	31.06	-3.77	27.29	54.00	-26.71
2724.000	Peak	41.44	-3.77	37.67	74.00	-36.33

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :908 MHz

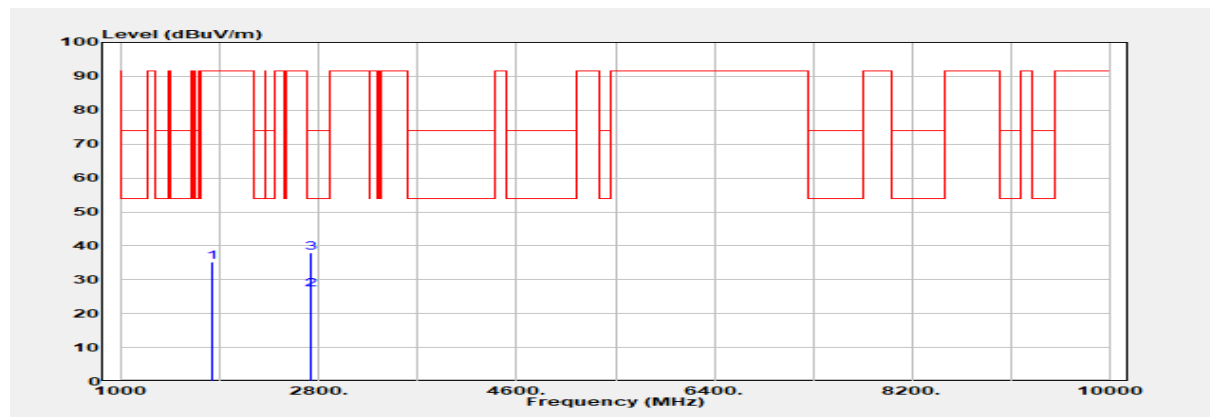
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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
1816.000	Peak	43.12	-7.89	35.22	91.62	-56.40
2724.000	Average	31.00	-3.77	27.23	54.00	-26.77
2724.000	Peak	41.61	-3.77	37.84	74.00	-36.16

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :916 MHz

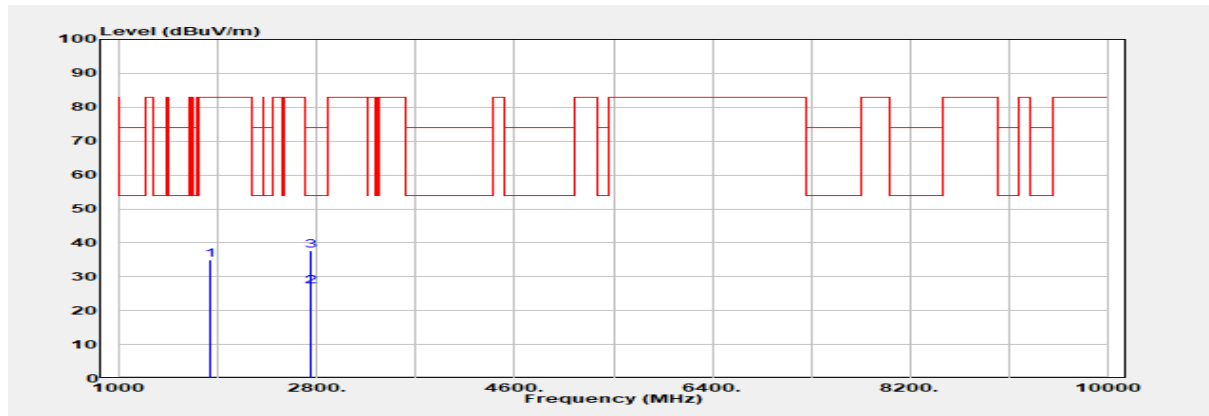
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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
1832.000	Peak	42.74	-7.87	34.87	82.98	-48.11
2748.000	Average	31.16	-4.00	27.17	54.00	-26.83
2748.000	Peak	41.73	-4.00	37.74	74.00	-36.26

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :916 MHz

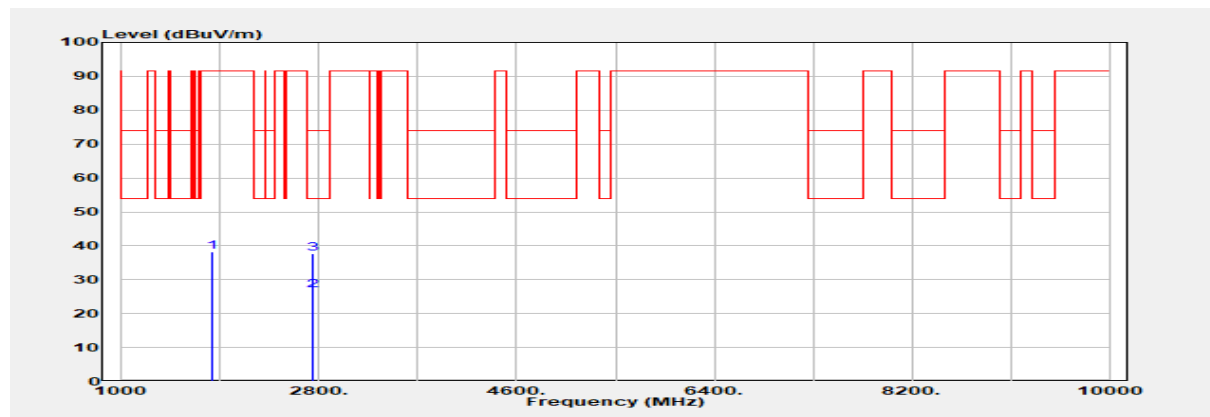
Temp./Humi. :22.4°C/64%

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	46.18	-7.87	38.31	91.62	-53.31
2748.000	Average	30.96	-4.00	26.96	54.00	-27.04
2748.000	Peak	41.73	-4.00	37.73	74.00	-36.27

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :924 MHz

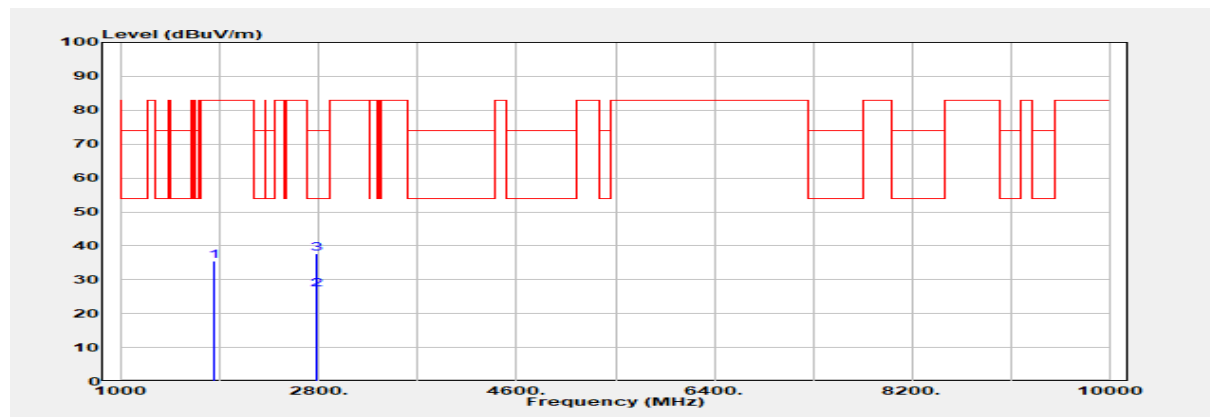
Temp./Humi. :22.4°C/64%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1848.000	Peak	43.29	-7.84	35.45	82.98	-47.53
2772.000	Average	31.21	-4.07	27.14	54.00	-26.86
2772.000	Peak	41.61	-4.07	37.54	74.00	-36.46

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-31

Test Frequency :924 MHz

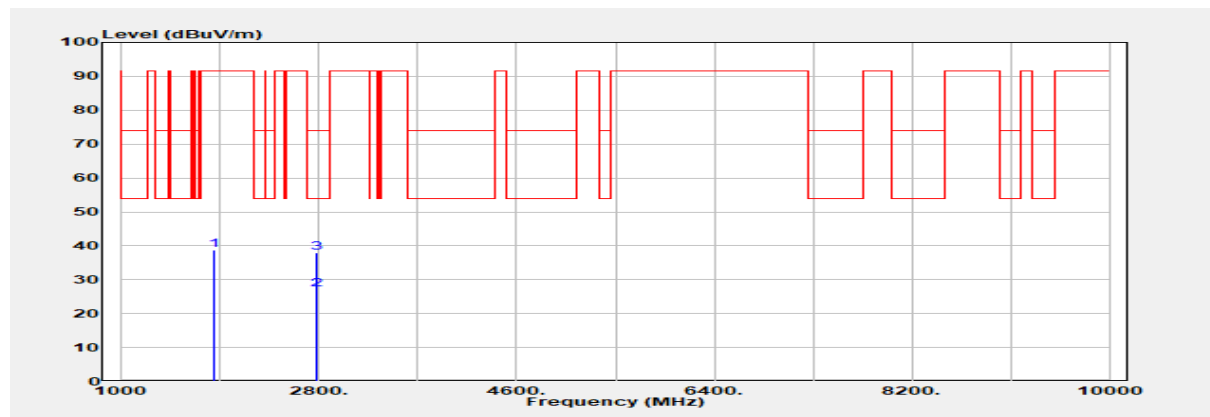
Temp./Humi. :22.4°C/64%

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	46.64	-7.84	38.79	91.62	-52.83
2772.000	Average	31.05	-4.07	26.98	54.00	-27.02
2772.000	Peak	42.06	-4.07	38.00	74.00	-36.00

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Dipole

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-07

Test Frequency :914.5 MHz

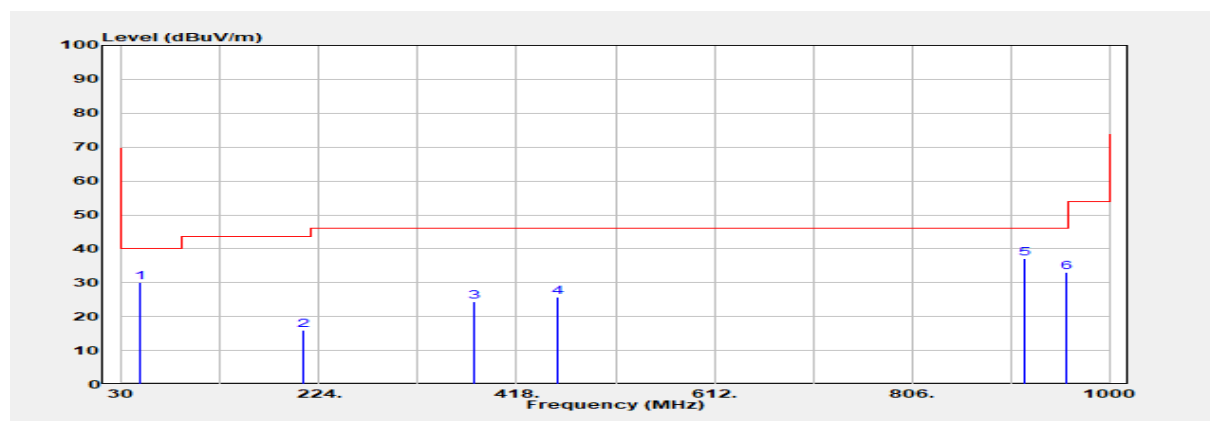
Temp./Humi. :23.1°C/62%

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	QP	47.00	-16.97	30.03	40.00	-9.97
208.480	QP	36.30	-20.25	16.05	43.50	-27.45
375.320	QP	38.10	-13.82	24.28	46.00	-21.72
458.740	QP	37.70	-11.94	25.76	46.00	-20.24
916.580	Peak	42.20	-5.18	37.02	46.00	-8.98
958.290	Peak	37.50	-4.31	33.19	46.00	-12.81

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-05-07

Test Frequency :914.5 MHz

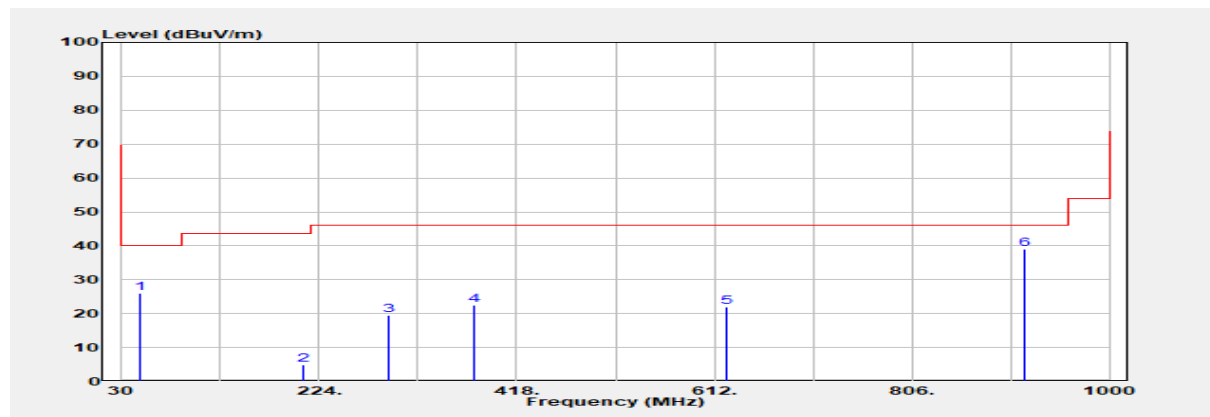
Temp./Humi. :23.1°C/62%

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
48.430	Peak	42.97	-16.97	26.00	40.00	-14.00
208.480	QP	25.10	-20.25	4.85	43.50	-38.65
291.900	QP	35.50	-16.05	19.45	46.00	-26.55
375.320	QP	36.20	-13.82	22.38	46.00	-23.62
624.610	QP	30.15	-8.21	21.94	46.00	-24.06
916.580	Peak	44.19	-5.18	39.01	46.00	-6.99

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :915 MHz

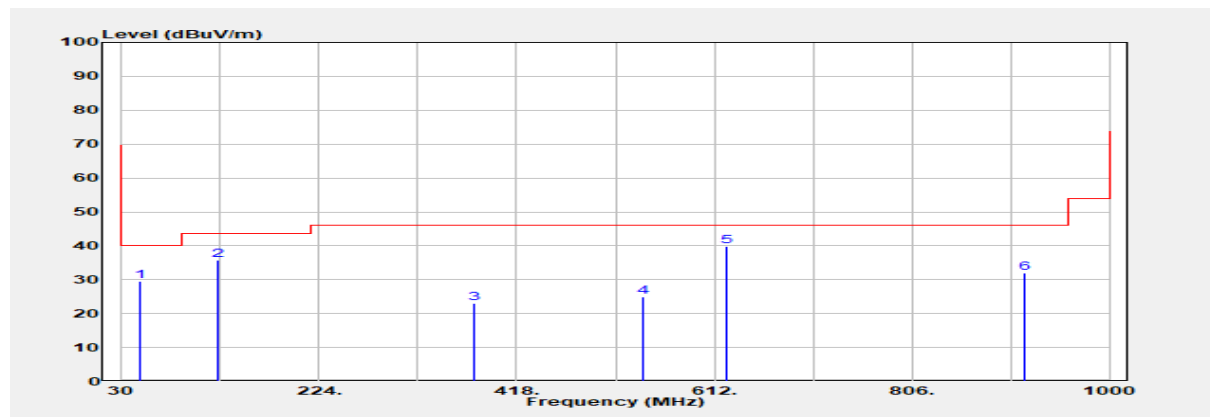
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
48.430	QP	46.52	-16.97	29.55	40.00	-10.45
125.060	Peak	54.87	-19.08	35.80	43.50	-7.70
375.320	QP	36.87	-13.82	23.05	46.00	-22.95
542.160	QP	35.74	-10.80	24.94	46.00	-21.06
624.610	Peak	47.95	-8.21	39.75	46.00	-6.25
916.580	Peak	37.24	-5.18	32.06	46.00	-13.94

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :915 MHz

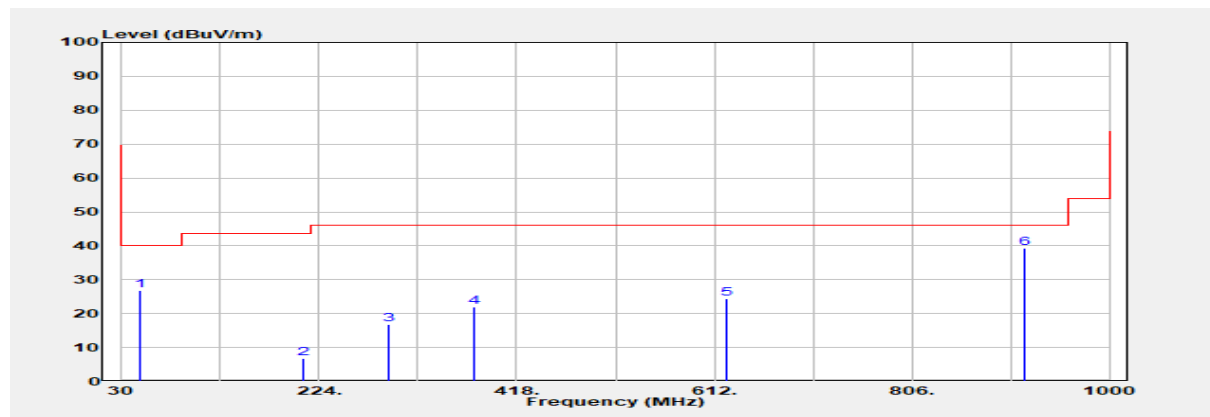
Temp./Humi. :23.1°C/62%

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
48.430	Peak	43.84	-16.97	26.87	40.00	-13.13
208.480	QP	26.97	-20.25	6.72	43.50	-36.78
291.900	QP	32.87	-16.05	16.82	46.00	-29.18
375.320	QP	35.78	-13.82	21.96	46.00	-24.04
624.610	QP	32.62	-8.21	24.41	46.00	-21.59
916.580	Peak	44.38	-5.18	39.20	46.00	-6.80

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :914 MHz

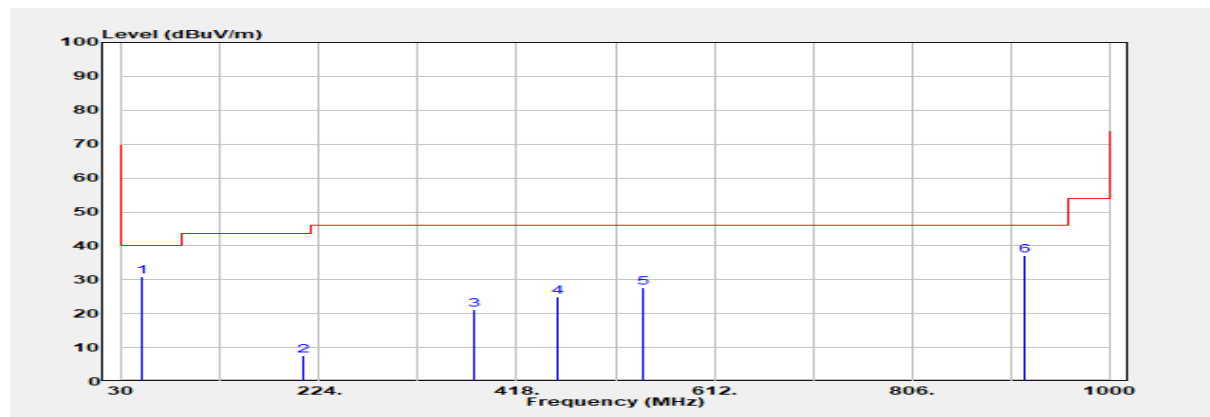
Temp./Humi. :23.1°C/62%

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
49.400	QP	47.85	-17.00	30.85	40.00	-9.15
208.480	QP	27.84	-20.25	7.59	43.50	-35.91
375.320	QP	34.85	-13.82	21.03	46.00	-24.97
458.740	QP	36.85	-11.94	24.91	46.00	-21.09
542.160	QP	38.47	-10.80	27.67	46.00	-18.33
916.580	Peak	42.41	-5.18	37.23	46.00	-8.77

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :914 MHz

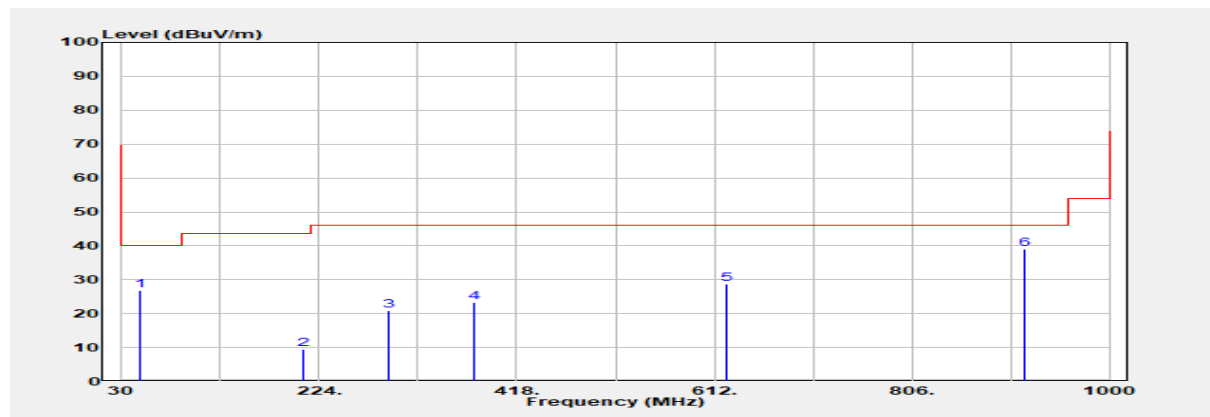
Temp./Humi. :23.1°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
48.430	Peak	43.76	-16.97	26.79	40.00	-13.21
208.480	QP	29.64	-20.25	9.39	43.50	-34.11
291.900	QP	36.84	-16.05	20.79	46.00	-25.21
375.320	QP	37.25	-13.82	23.43	46.00	-22.57
624.610	QP	36.84	-8.21	28.63	46.00	-17.37
916.580	Peak	44.19	-5.18	39.01	46.00	-6.99

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :916 MHz

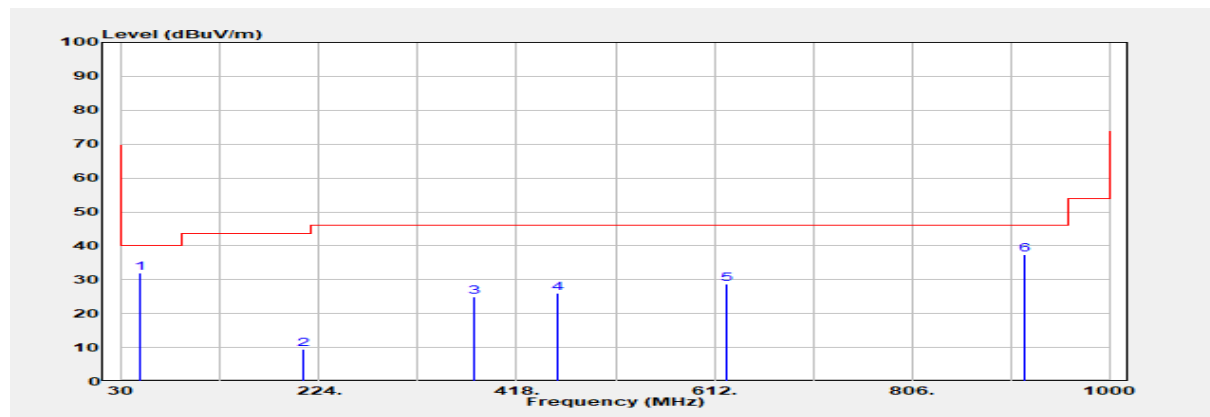
Temp./Humi. :23.1°C/62%

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	QP	48.85	-16.97	31.88	40.00	-8.12
208.480	QP	29.64	-20.25	9.39	43.50	-34.11
375.320	QP	38.85	-13.82	25.03	46.00	-20.97
458.740	QP	37.85	-11.94	25.91	46.00	-20.09
624.610	QP	36.85	-8.21	28.64	46.00	-17.36
916.580	Peak	42.66	-5.18	37.48	46.00	-8.52

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :916 MHz

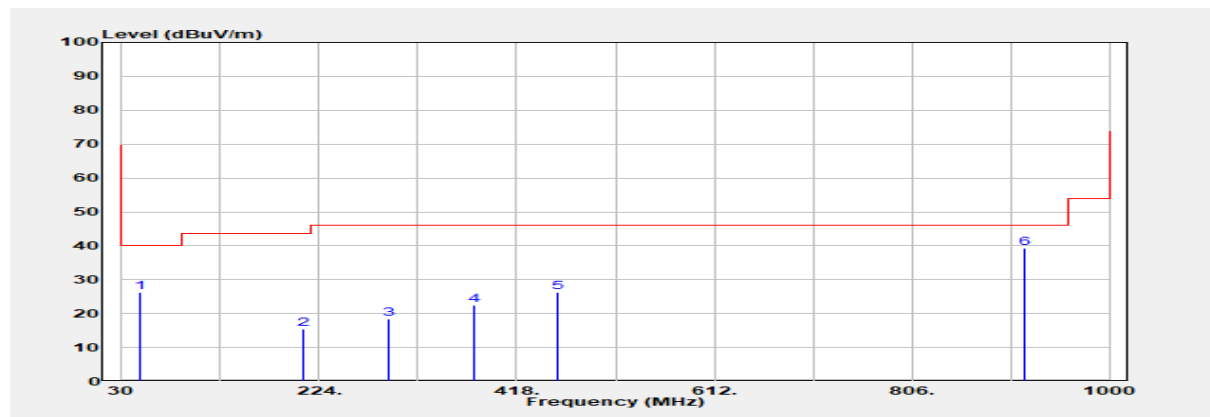
Temp./Humi. :23.1°C/62%

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	43.29	-16.97	26.32	40.00	-13.68
208.480	QP	35.81	-20.25	15.56	43.50	-27.94
291.900	QP	34.57	-16.05	18.52	46.00	-27.48
375.320	QP	36.21	-13.82	22.39	46.00	-23.61
458.740	QP	38.32	-11.94	26.38	46.00	-19.62
916.580	Peak	44.52	-5.18	39.34	46.00	-6.66

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

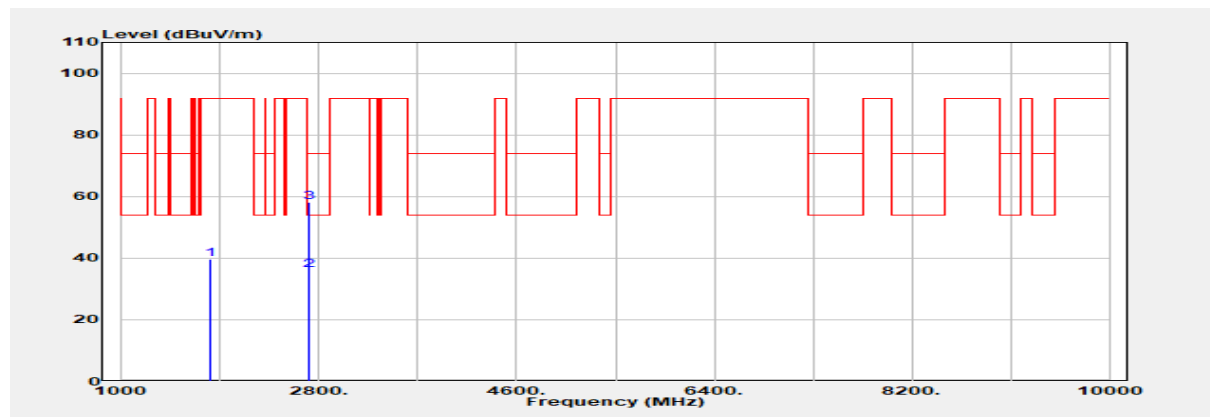
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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
1807.000	Peak	47.58	-7.91	39.67	91.82	-52.15
2710.500	Average	39.69	-3.64	36.05	54.00	-17.95
2710.500	Peak	61.87	-3.64	58.23	74.00	-15.77

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

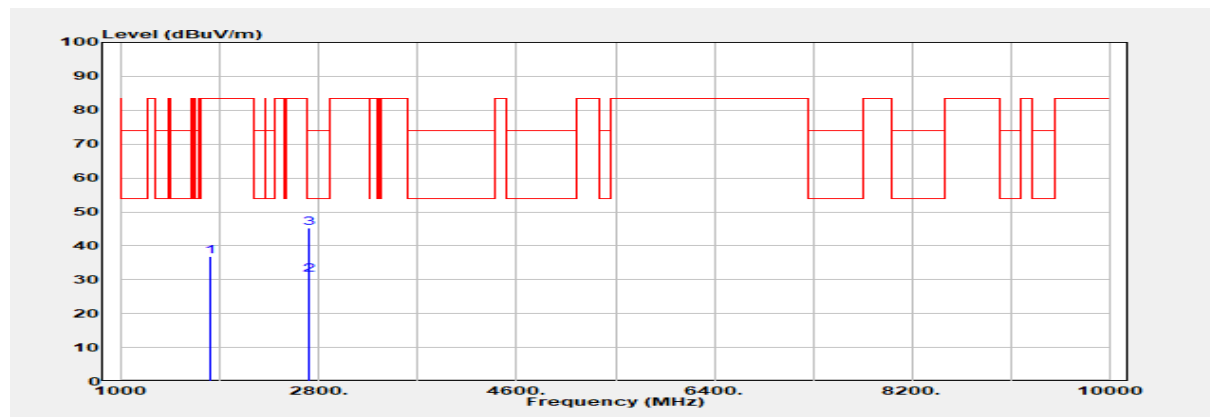
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1807.000	Peak	44.86	-7.91	36.95	83.56	-46.61
2710.500	Average	34.96	-3.64	31.32	54.00	-22.68
2710.500	Peak	48.99	-3.64	45.35	74.00	-28.65

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :914.5 MHz

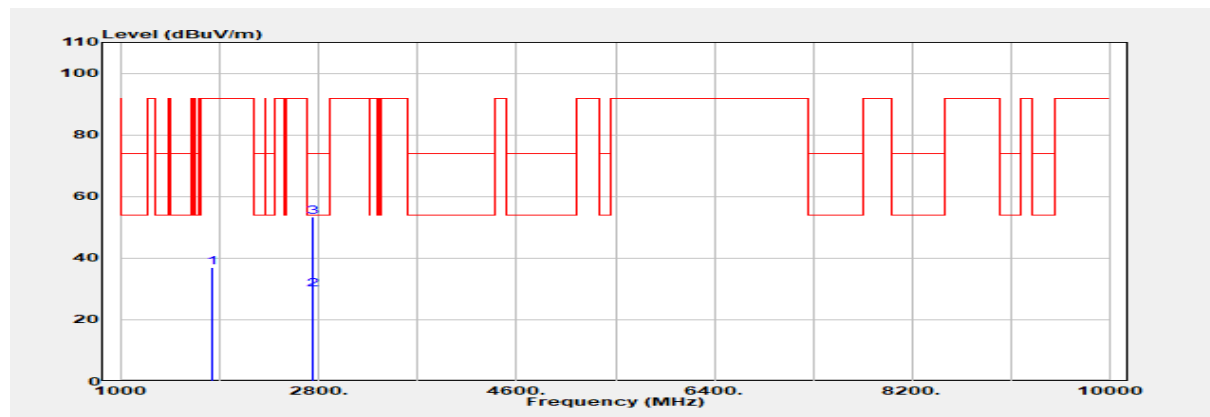
Temp./Humi. :21.1°C/63%

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
1829.000	Peak	44.86	-7.87	36.98	91.82	-54.84
2743.500	Average	33.67	-3.95	29.72	54.00	-24.28
2743.500	Peak	57.45	-3.95	53.50	74.00	-20.50

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :914.5 MHz

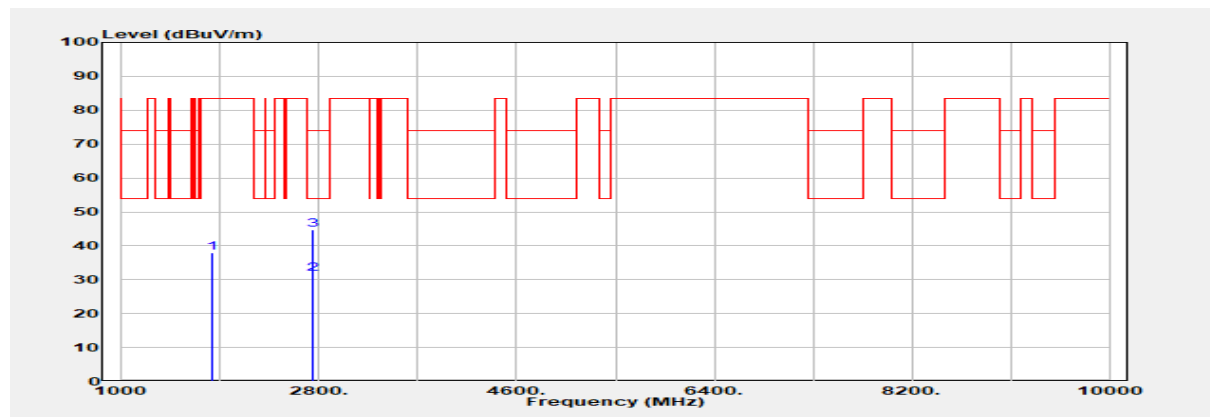
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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
1829.000	Peak	45.74	-7.87	37.87	83.56	-45.69
2743.500	Average	35.74	-3.95	31.79	54.00	-22.21
2743.500	Peak	48.74	-3.95	44.79	74.00	-29.21

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

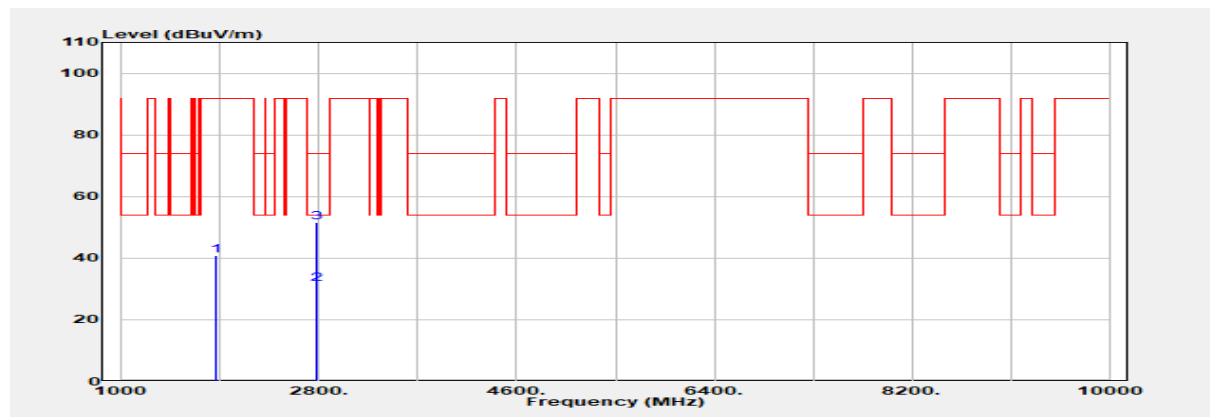
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1853.000	Peak	48.74	-7.84	40.90	91.82	-50.92
2779.500	Average	35.74	-4.08	31.66	54.00	-22.34
2779.500	Peak	55.74	-4.08	51.66	74.00	-22.34

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

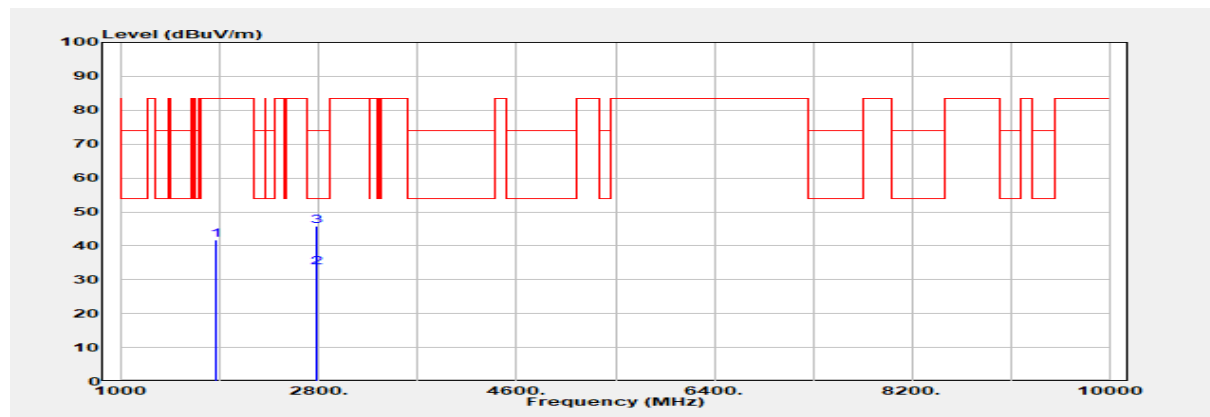
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1853.000	Peak	49.54	-7.84	41.70	83.56	-41.86
2779.500	Average	37.81	-4.08	33.73	54.00	-20.27
2779.500	Peak	49.78	-4.08	45.70	74.00	-28.30

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :905 MHz

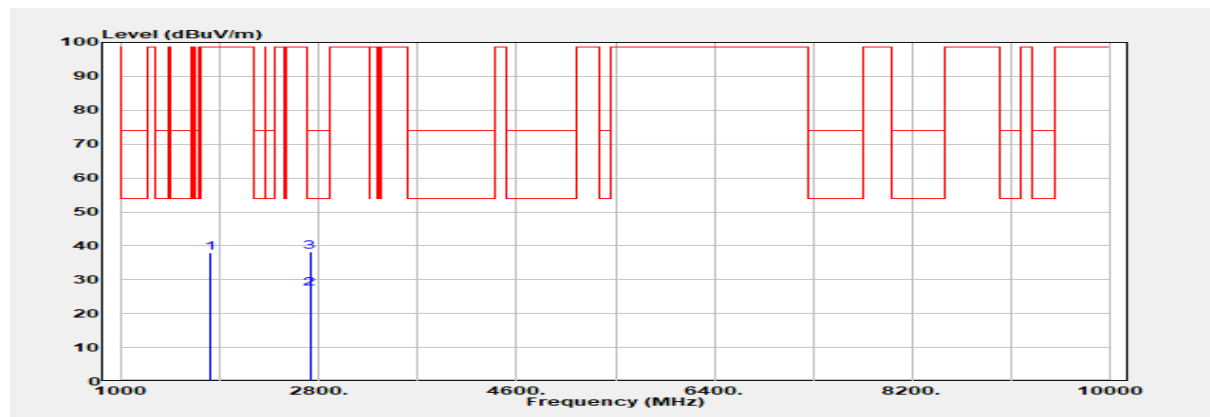
Temp./Humi. :23.1°C/62%

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	45.88	-7.90	37.97	98.51	-60.54
2715.000	Average	31.03	-3.68	27.34	54.00	-26.66
2715.000	Peak	42.01	-3.68	38.32	74.00	-35.68

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :905 MHz

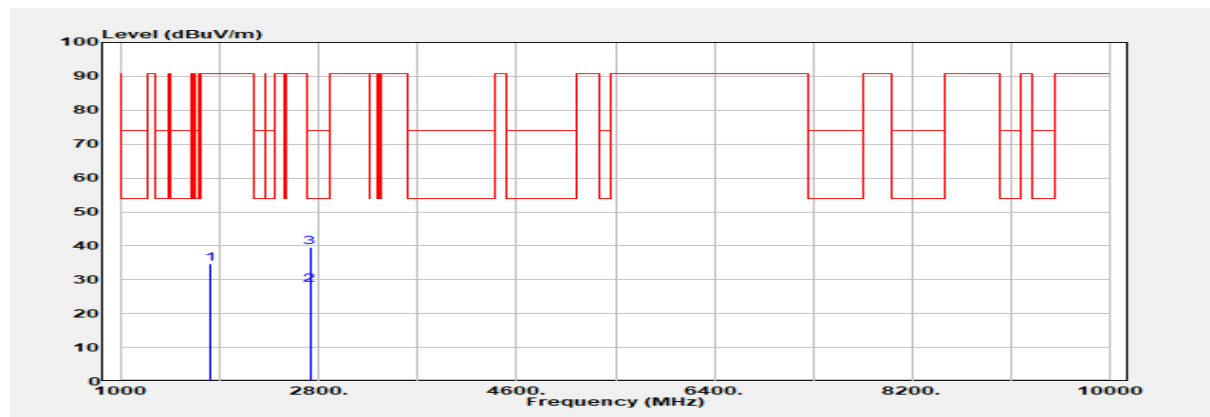
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1810.000	Peak	42.60	-7.90	34.69	90.68	-55.99
2715.000	Average	32.04	-3.68	28.36	54.00	-25.64
2715.000	Peak	43.18	-3.68	39.50	74.00	-34.50

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :915 MHz

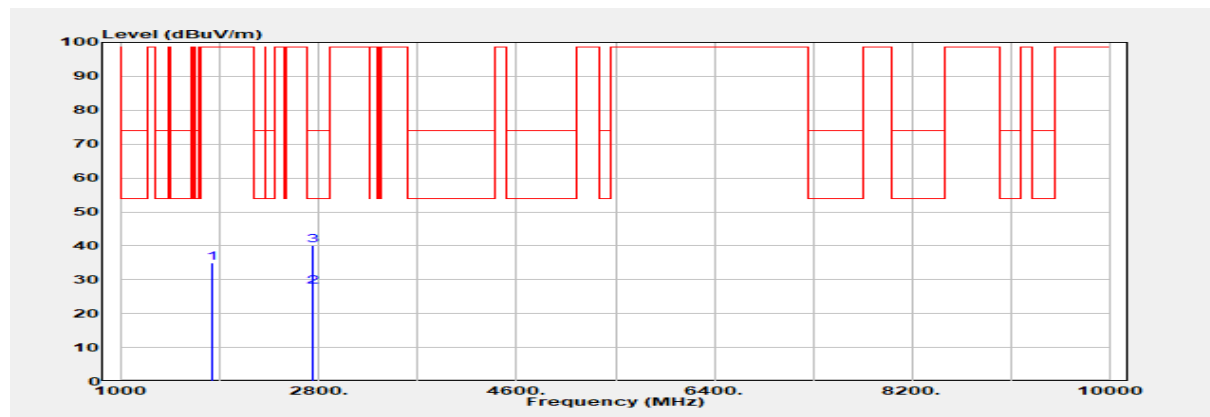
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1830.000	Peak	42.80	-7.87	34.93	98.51	-63.58
2745.000	Average	31.93	-3.97	27.97	54.00	-26.03
2745.000	Peak	43.98	-3.97	40.01	74.00	-33.99

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :915 MHz

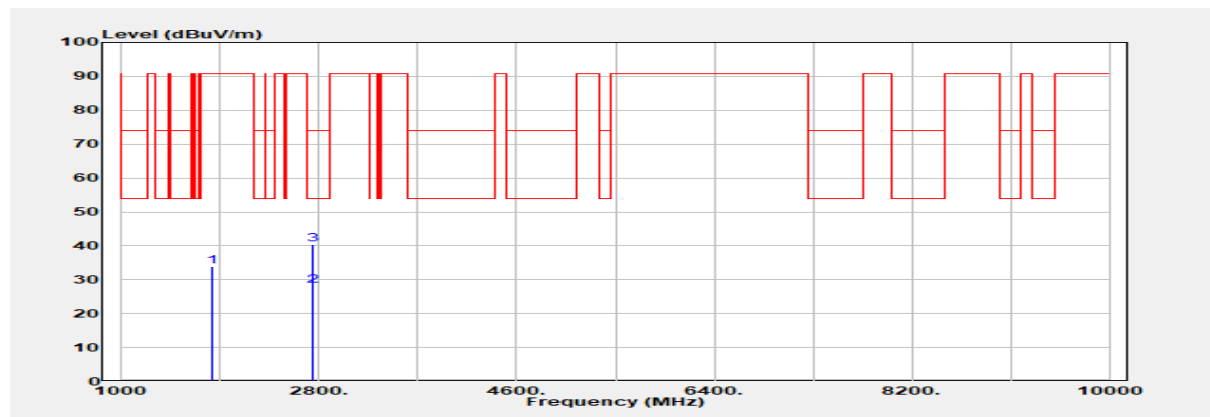
Temp./Humi. :23.1°C/62%

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	41.62	-7.87	33.75	90.68	-56.93
2745.000	Average	32.13	-3.97	28.16	54.00	-25.84
2745.000	Peak	44.36	-3.97	40.39	74.00	-33.61

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :925 MHz

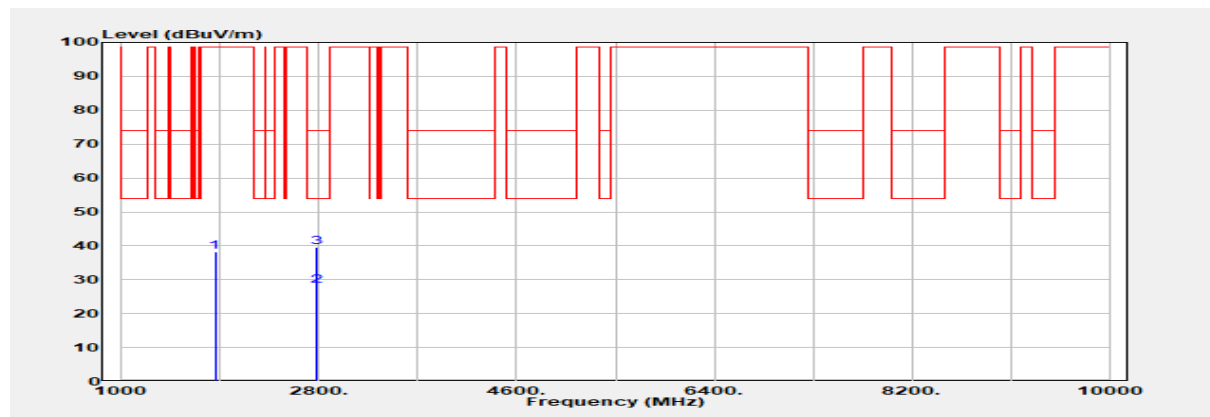
Temp./Humi. :23.1°C/62%

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	46.00	-7.84	38.16	98.51	-60.35
2775.000	Average	32.23	-4.07	28.16	54.00	-25.84
2775.000	Peak	43.71	-4.07	39.63	74.00	-34.37

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-05-07

Test Frequency :925 MHz

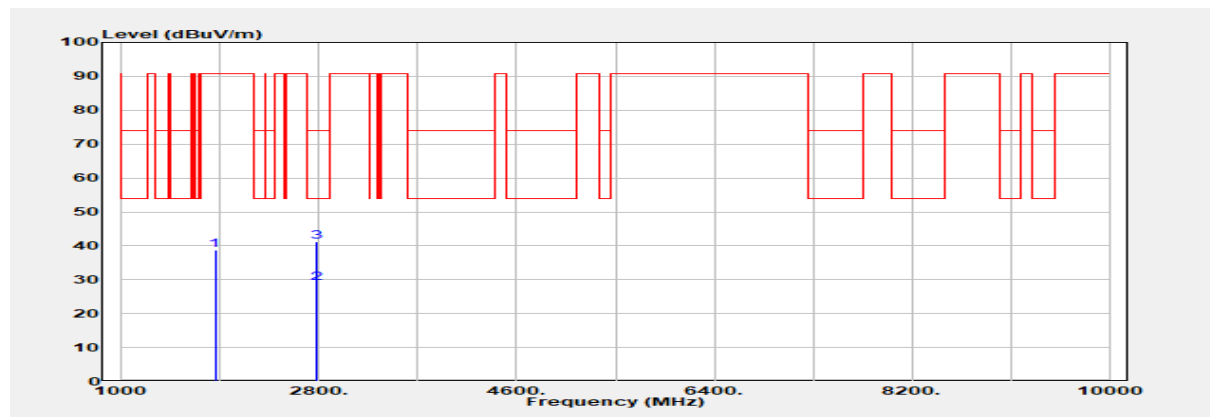
Temp./Humi. :23.1°C/62%

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
1850.000	Peak	46.71	-7.84	38.87	90.68	-51.81
2775.000	Average	33.05	-4.07	28.98	54.00	-25.02
2775.000	Peak	45.29	-4.07	41.21	74.00	-32.79

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :906 MHz

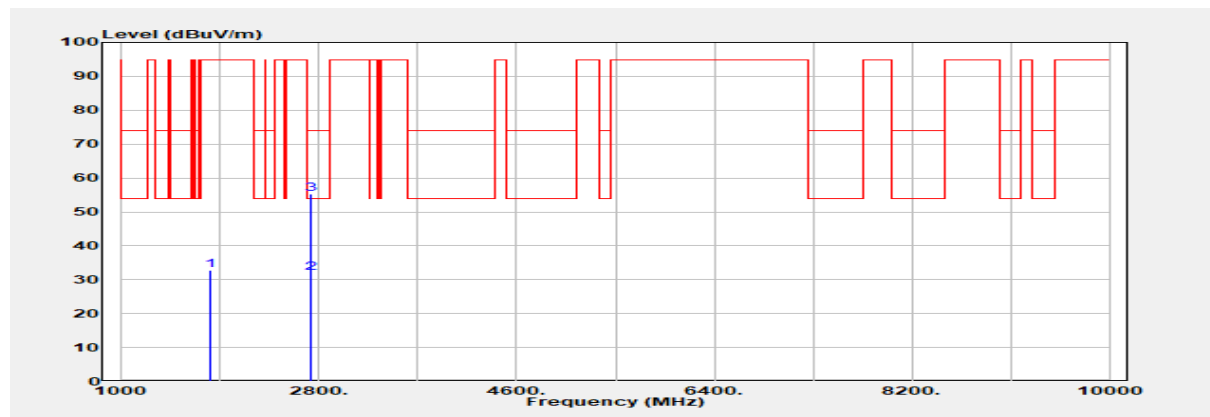
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1812.000	Peak	40.73	-7.90	32.83	94.74	-61.91
2718.000	Average	35.58	-3.71	31.87	54.00	-22.13
2718.000	Peak	59.12	-3.71	55.40	74.00	-18.60

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :906 MHz

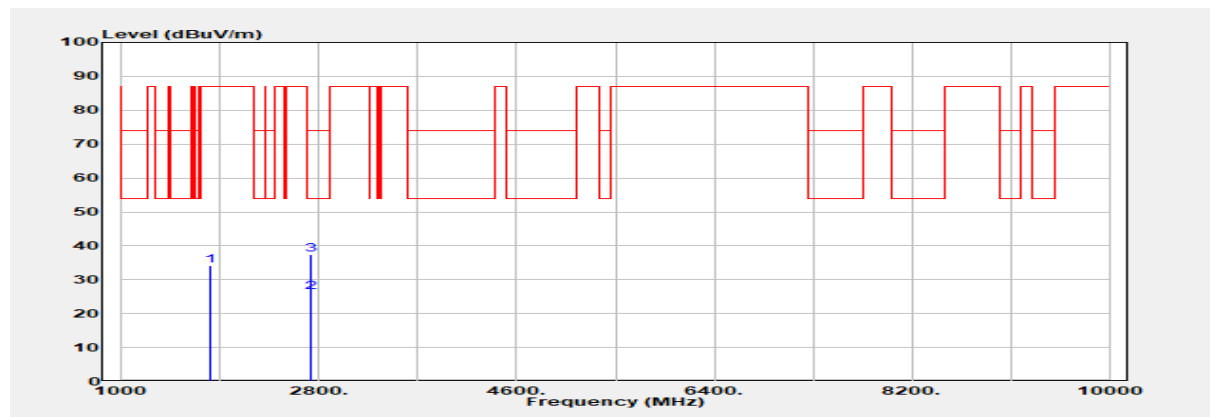
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1812.000	Peak	42.12	-7.90	34.22	86.99	-52.77
2718.000	Average	30.08	-3.71	26.37	54.00	-27.63
2718.000	Peak	40.99	-3.71	37.28	74.00	-36.72

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :914 MHz

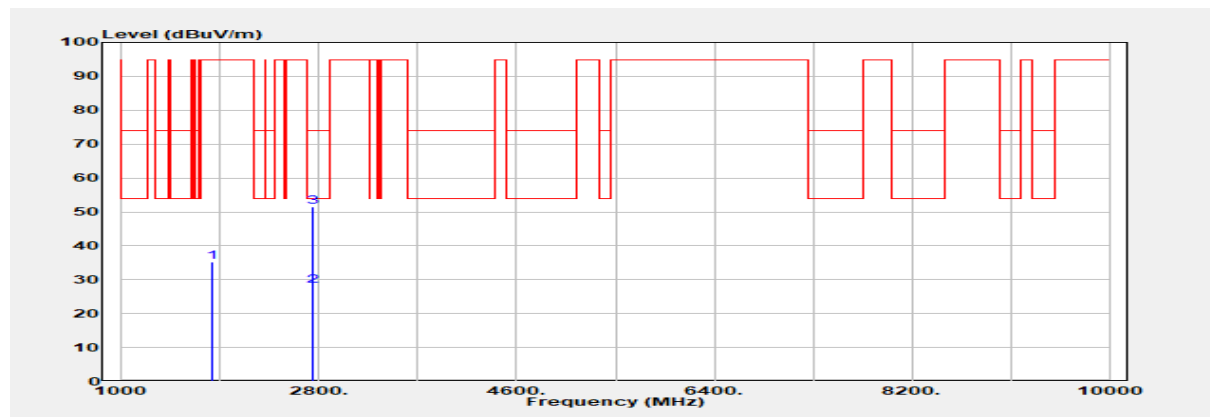
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1828.000	Peak	43.11	-7.87	35.24	94.74	-59.50
2742.000	Average	32.15	-3.94	28.21	54.00	-25.79
2742.000	Peak	55.39	-3.94	51.45	74.00	-22.55

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :914 MHz

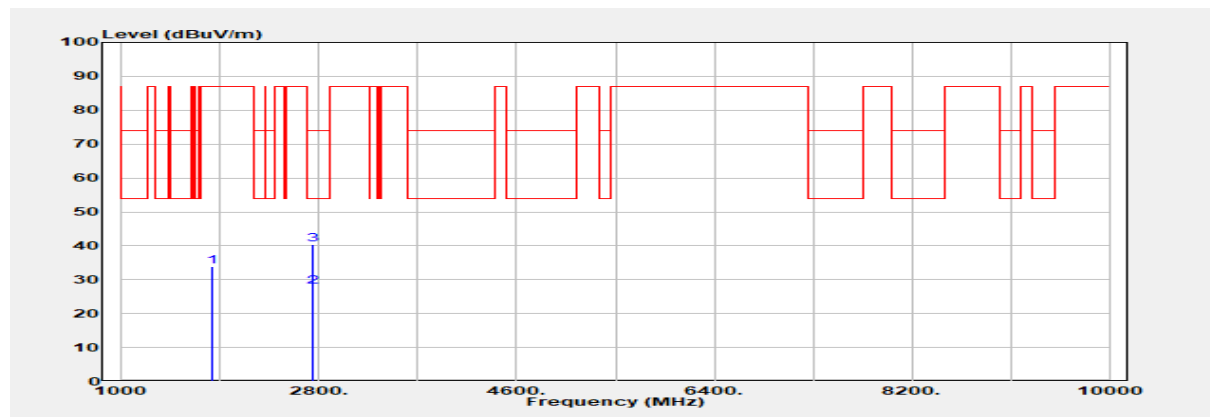
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1828.000	Peak	41.66	-7.87	33.78	86.99	-53.21
2742.000	Average	31.86	-3.94	27.92	54.00	-26.08
2742.000	Peak	44.33	-3.94	40.39	74.00	-33.61

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :926 MHz

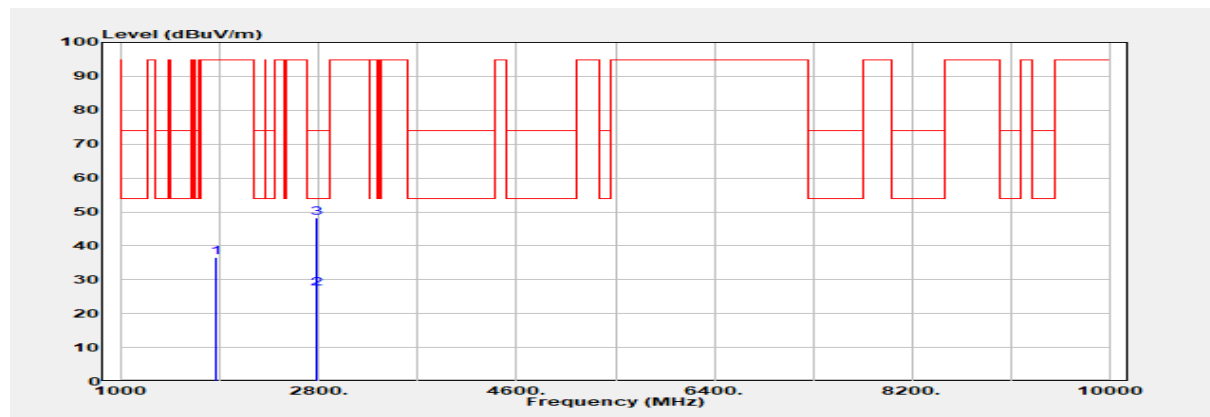
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1852.000	Peak	44.42	-7.84	36.58	94.74	-58.16
2778.000	Average	31.43	-4.08	27.35	54.00	-26.65
2778.000	Peak	52.32	-4.08	48.24	74.00	-25.76

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-05-07

Test Frequency :926 MHz

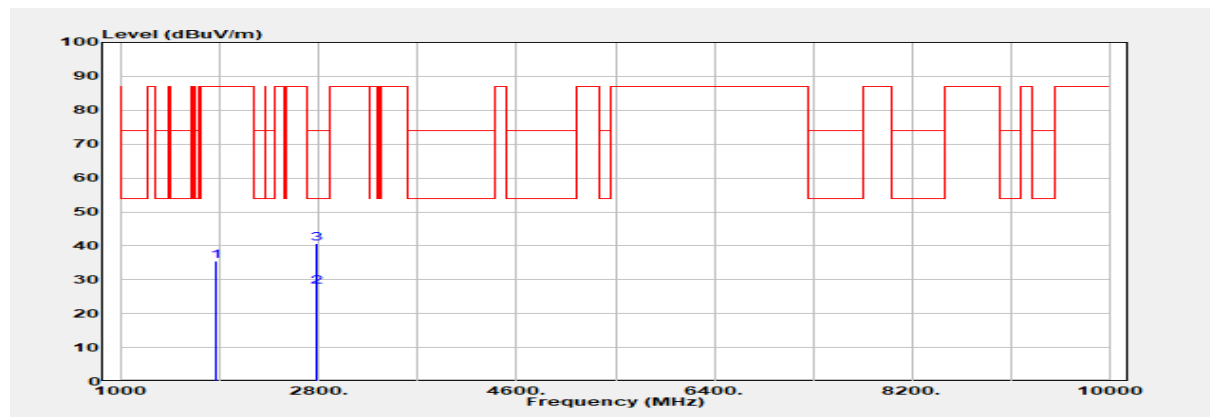
Temp./Humi. :23.1°C/62%

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	43.44	-7.84	35.60	86.99	-51.39
2778.000	Average	32.03	-4.08	27.95	54.00	-26.05
2778.000	Peak	44.86	-4.08	40.78	74.00	-33.22

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :908 MHz

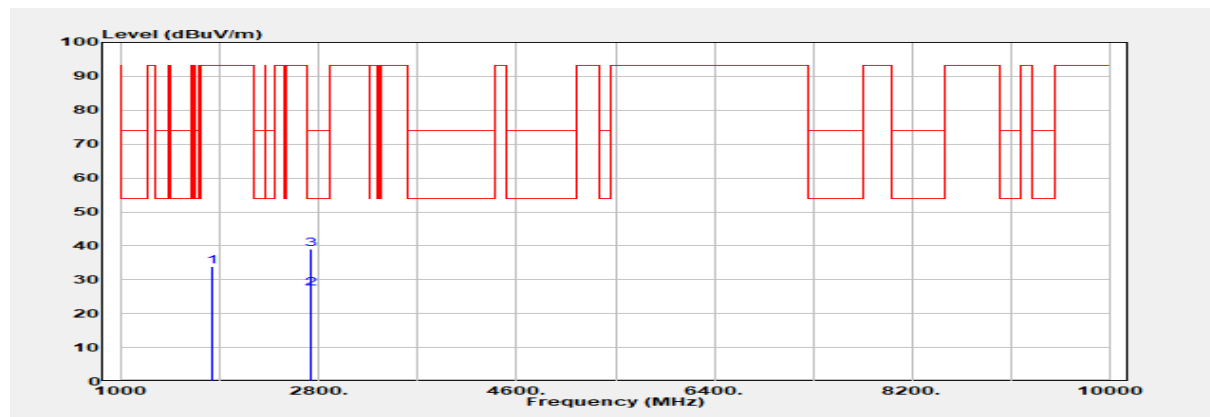
Temp./Humi. :23.1°C/62%

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	41.84	-7.89	33.94	93.35	-59.41
2724.000	Average	31.16	-3.77	27.39	54.00	-26.61
2724.000	Peak	42.75	-3.77	38.98	74.00	-35.02

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :908 MHz

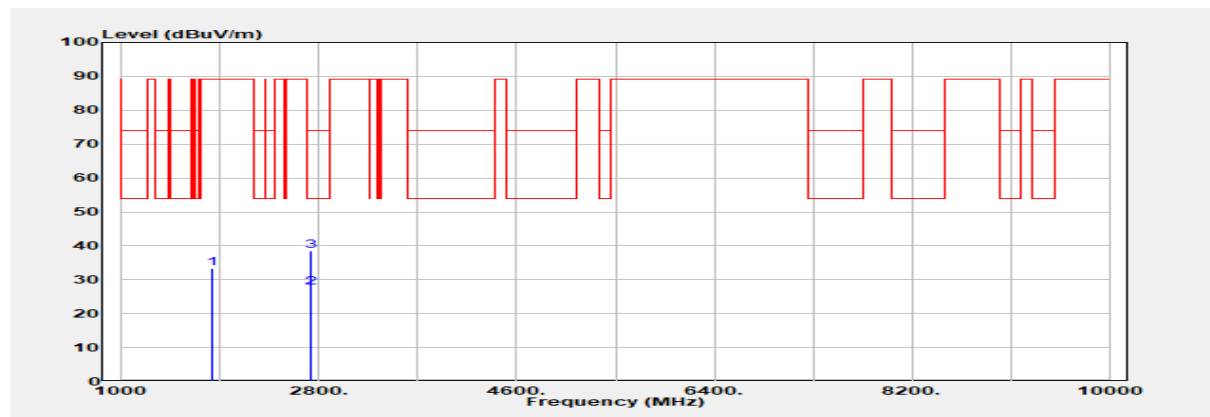
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1816.000	Peak	41.33	-7.89	33.44	89.28	-55.84
2724.000	Average	31.45	-3.77	27.68	54.00	-26.32
2724.000	Peak	42.12	-3.77	38.35	74.00	-35.65

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :916 MHz

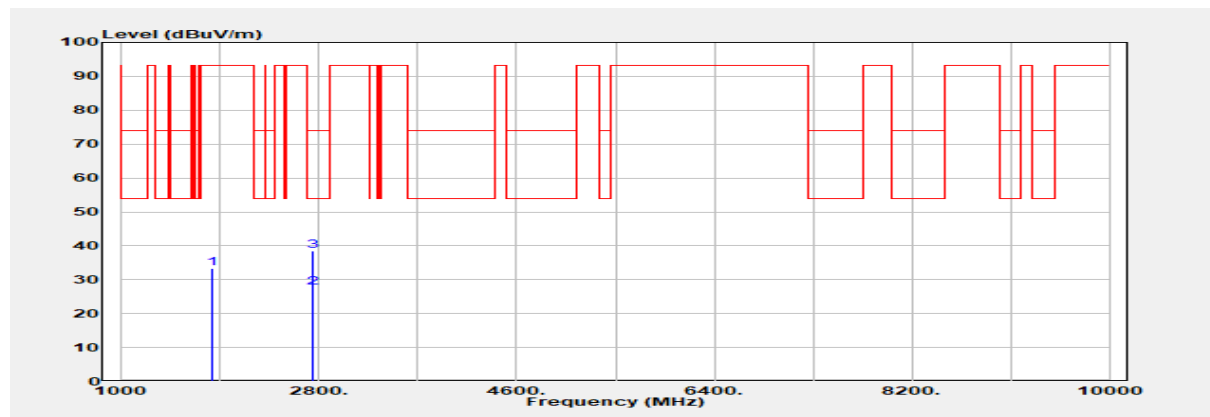
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1832.000	Peak	41.20	-7.87	33.33	93.35	-60.02
2748.000	Average	31.51	-4.00	27.51	54.00	-26.49
2748.000	Peak	42.46	-4.00	38.47	74.00	-35.53

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :916 MHz

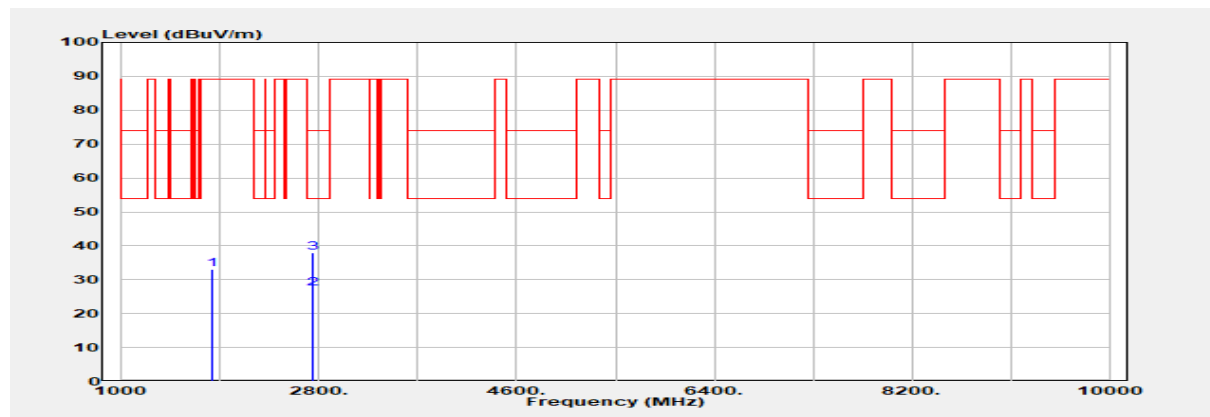
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1832.000	Peak	40.90	-7.87	33.03	89.28	-56.25
2748.000	Average	31.43	-4.00	27.43	54.00	-26.57
2748.000	Peak	41.85	-4.00	37.86	74.00	-36.14

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :924 MHz

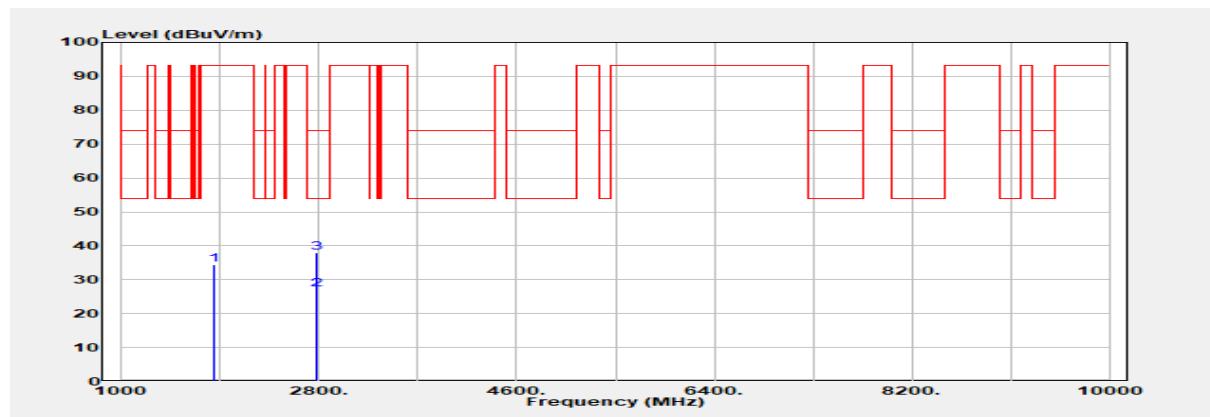
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1848.000	Peak	42.33	-7.84	34.48	93.35	-58.87
2772.000	Average	31.29	-4.07	27.23	54.00	-26.77
2772.000	Peak	42.07	-4.07	38.00	74.00	-36.00

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-05-07

Test Frequency :924 MHz

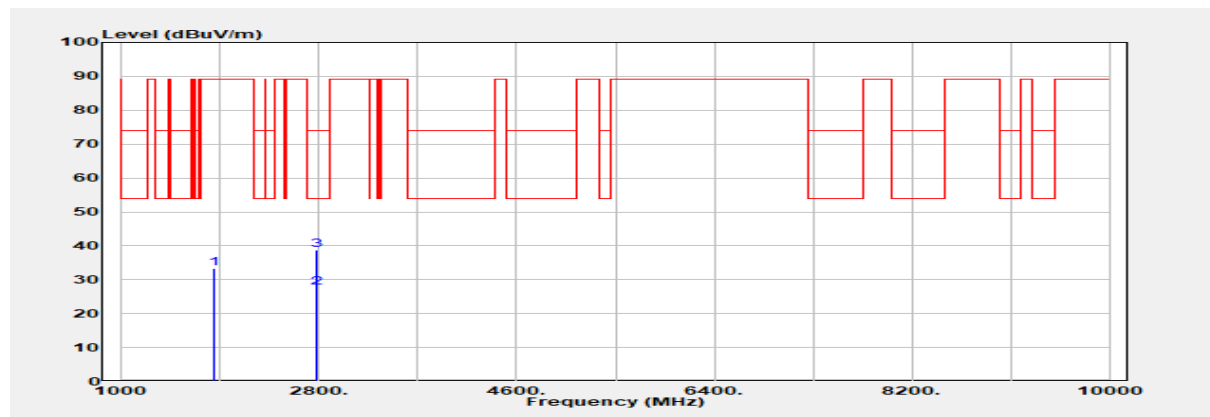
Temp./Humi. :23.1°C/62%

Test Mode :Tx

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
1848.000	Peak	41.06	-7.84	33.21	89.28	-56.07
2772.000	Average	31.82	-4.07	27.76	54.00	-26.24
2772.000	Peak	42.73	-4.07	38.67	74.00	-35.33

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Monopole

Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-02

Test Frequency :914.5 MHz

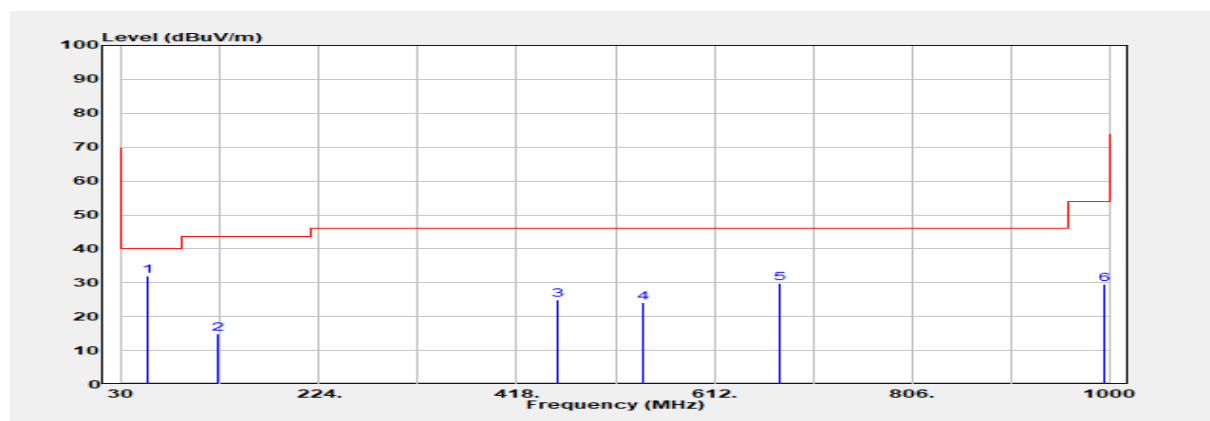
Temp./Humi. :21.9°C/65%

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
55.220	QP	48.87	-17.03	31.85	40.00	-8.15
125.060	QP	33.87	-19.08	14.80	43.50	-28.70
458.740	QP	36.87	-11.94	24.93	46.00	-21.07
542.160	QP	34.99	-10.80	24.18	46.00	-21.82
676.020	Peak	38.34	-8.45	29.89	46.00	-16.11
995.150	Peak	34.09	-4.59	29.50	54.00	-24.50

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-02

Test Frequency :914.5 MHz

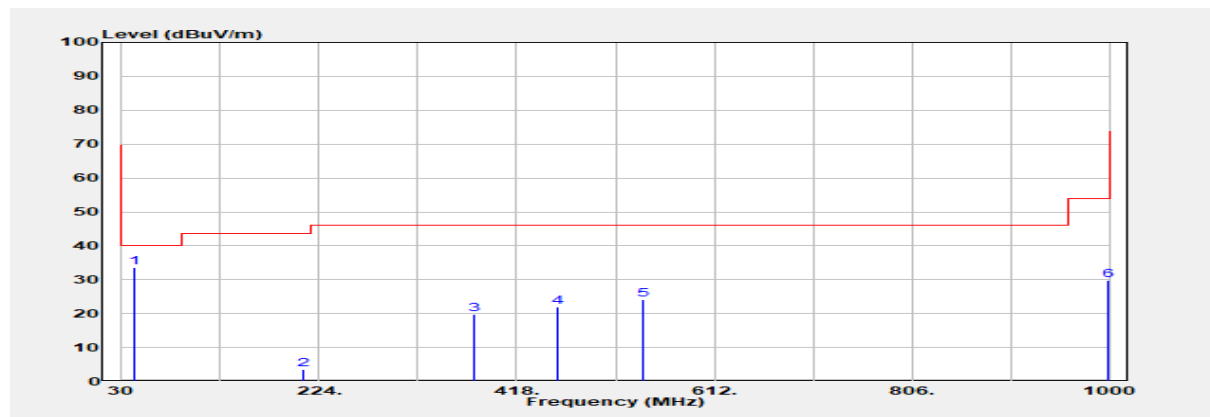
Temp./Humi. :21.9°C/65%

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
41.640	Peak	51.34	-17.76	33.59	40.00	-6.41
208.480	QP	23.84	-20.25	3.59	43.50	-39.91
375.320	QP	33.61	-13.82	19.79	46.00	-26.21
458.740	QP	33.87	-11.94	21.93	46.00	-24.07
542.160	QP	34.81	-10.80	24.01	46.00	-21.99
999.030	Peak	34.23	-4.48	29.75	54.00	-24.25

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :915 MHz

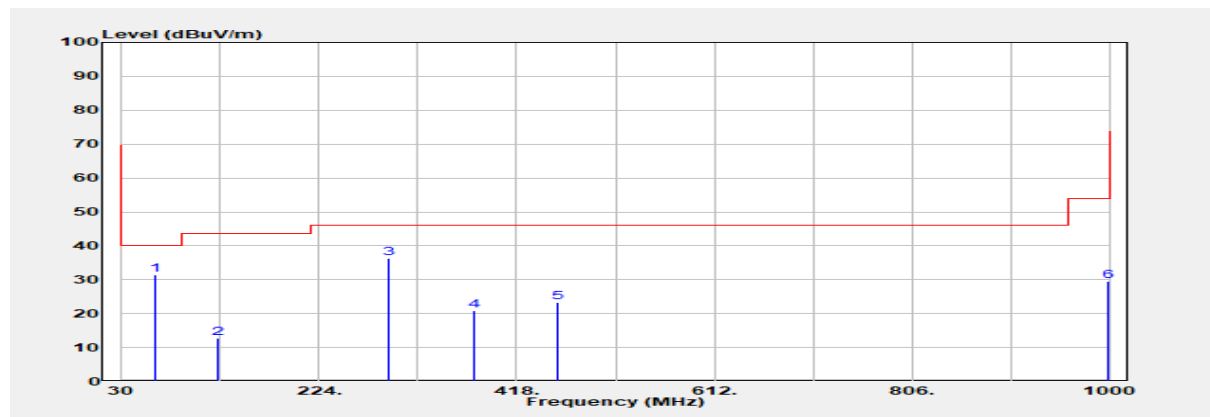
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
62.010	QP	49.51	-18.05	31.46	40.00	-8.54
125.060	QP	31.84	-19.08	12.76	43.50	-30.74
291.900	Peak	52.36	-16.05	36.32	46.00	-9.68
375.320	QP	34.82	-13.82	20.99	46.00	-25.01
458.740	QP	35.13	-11.94	23.19	46.00	-22.81
999.030	Peak	33.89	-4.48	29.42	54.00	-24.58

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :915 MHz

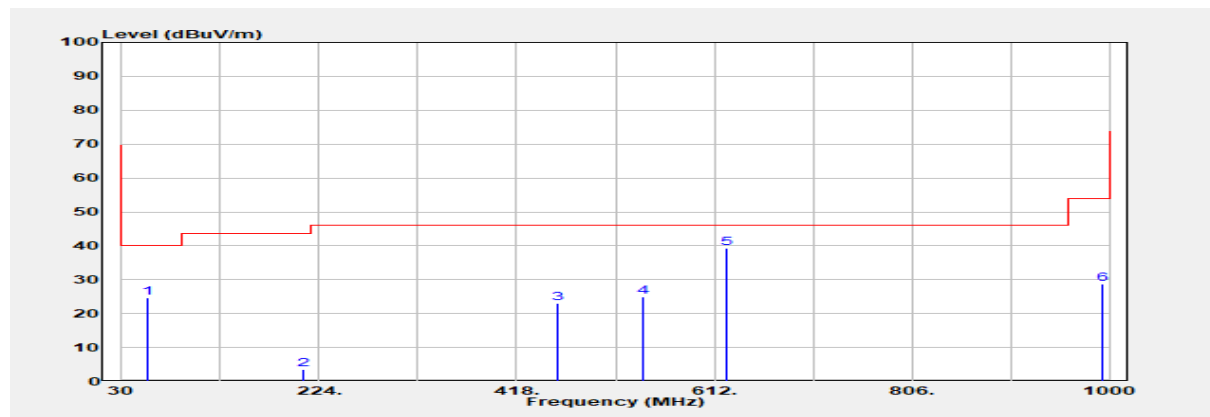
Temp./Humi. :21.9°C/65%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
56.190	Peak	41.75	-16.98	24.77	40.00	-15.23
208.480	QP	23.84	-20.25	3.59	43.50	-39.91
458.740	QP	34.85	-11.94	22.91	46.00	-23.09
542.160	QP	35.84	-10.80	25.04	46.00	-20.96
624.610	Peak	47.45	-8.21	39.24	46.00	-6.76
993.210	Peak	33.42	-4.69	28.73	54.00	-25.27

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :914 MHz

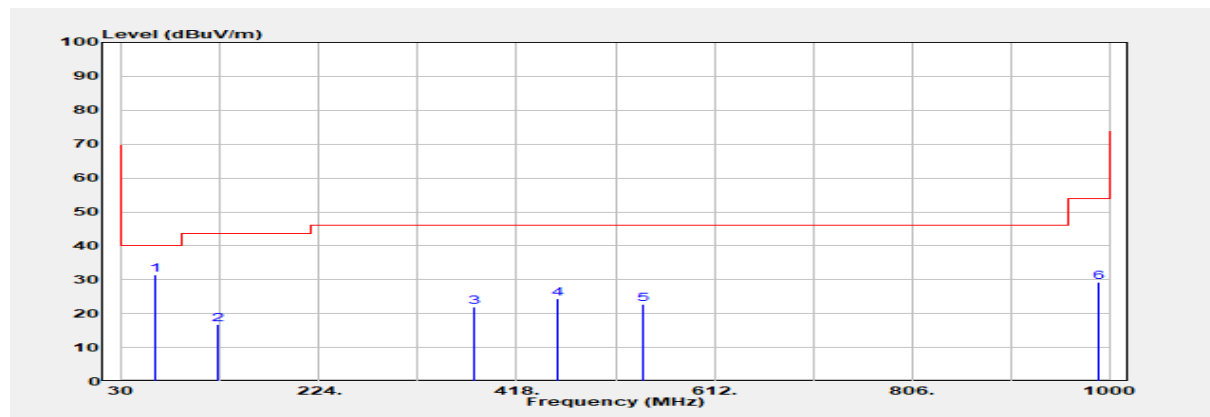
Temp./Humi. :21.9°C/65%

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
62.010	QP	49.62	-18.05	31.56	40.00	-8.44
125.060	QP	35.82	-19.08	16.74	43.50	-26.76
375.320	QP	35.87	-13.82	22.05	46.00	-23.95
458.740	QP	36.41	-11.94	24.47	46.00	-21.53
542.160	QP	33.51	-10.80	22.71	46.00	-23.29
989.330	Peak	34.15	-4.84	29.31	54.00	-24.69

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :914 MHz

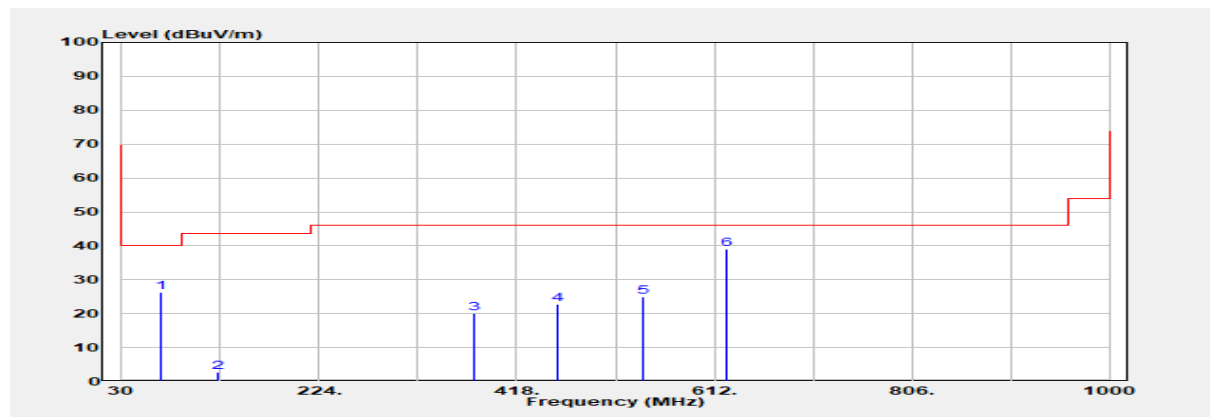
Temp./Humi. :21.9°C/65%

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
67.830	Peak	45.58	-19.33	26.26	40.00	-13.74
125.060	QP	21.85	-19.08	2.78	43.50	-40.72
375.320	QP	33.87	-13.82	20.05	46.00	-25.95
458.740	QP	34.62	-11.94	22.68	46.00	-23.32
542.160	QP	35.87	-10.80	25.07	46.00	-20.93
624.610	Peak	47.34	-8.21	39.13	46.00	-6.87

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :916 MHz

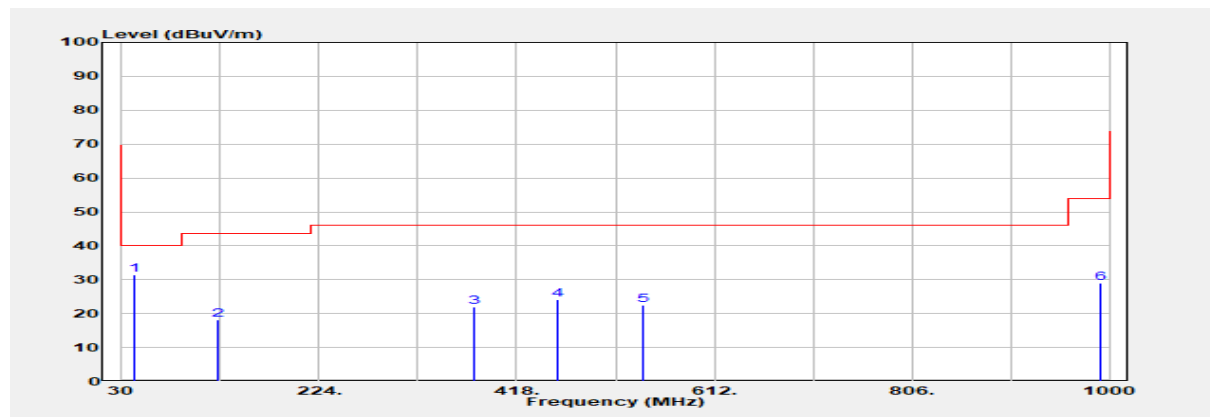
Temp./Humi. :21.9°C/65%

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
41.640	QP	49.13	-17.76	31.37	40.00	-8.63
125.060	QP	37.21	-19.08	18.14	43.50	-25.36
375.320	QP	35.64	-13.82	21.82	46.00	-24.18
458.740	QP	36.13	-11.94	24.19	46.00	-21.81
542.160	QP	33.41	-10.80	22.61	46.00	-23.39
992.240	Peak	33.74	-4.74	29.00	54.00	-25.00

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :916 MHz

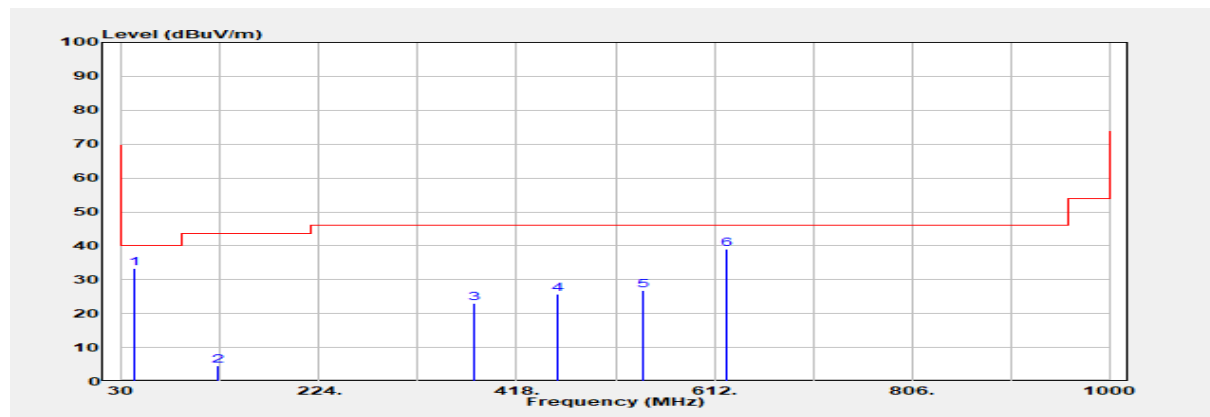
Temp./Humi. :21.9°C/65%

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
41.640	Peak	50.96	-17.76	33.21	40.00	-6.79
125.060	QP	23.57	-19.08	4.50	43.50	-39.00
375.320	QP	36.96	-13.82	23.14	46.00	-22.86
458.740	QP	37.63	-11.94	25.69	46.00	-20.31
542.160	QP	37.64	-10.80	26.84	46.00	-19.16
624.610	Peak	47.35	-8.21	39.14	46.00	-6.86

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

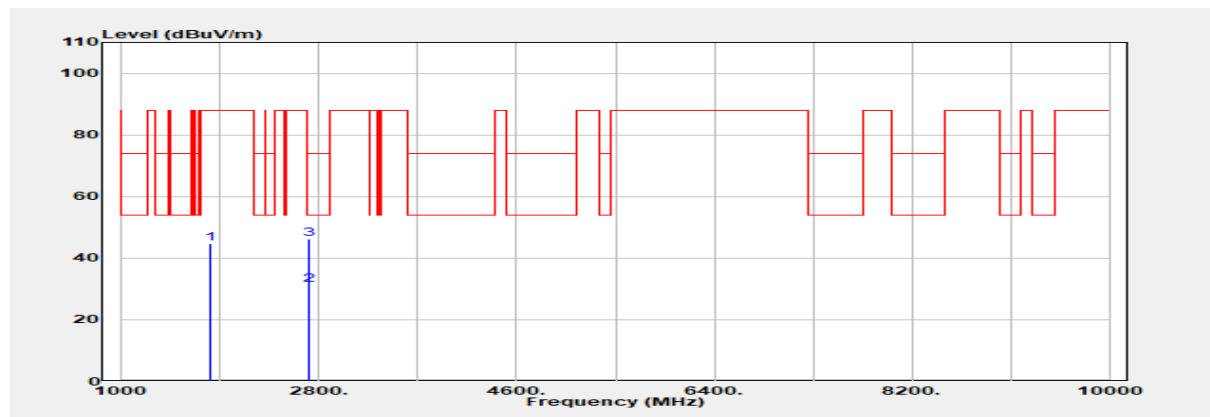
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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
1807.000	Peak	52.64	-7.91	44.73	87.81	-43.08
2710.500	Average	34.88	-3.64	31.24	54.00	-22.76
2710.500	Peak	49.72	-3.64	46.08	74.00	-27.92

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :903.5 MHz

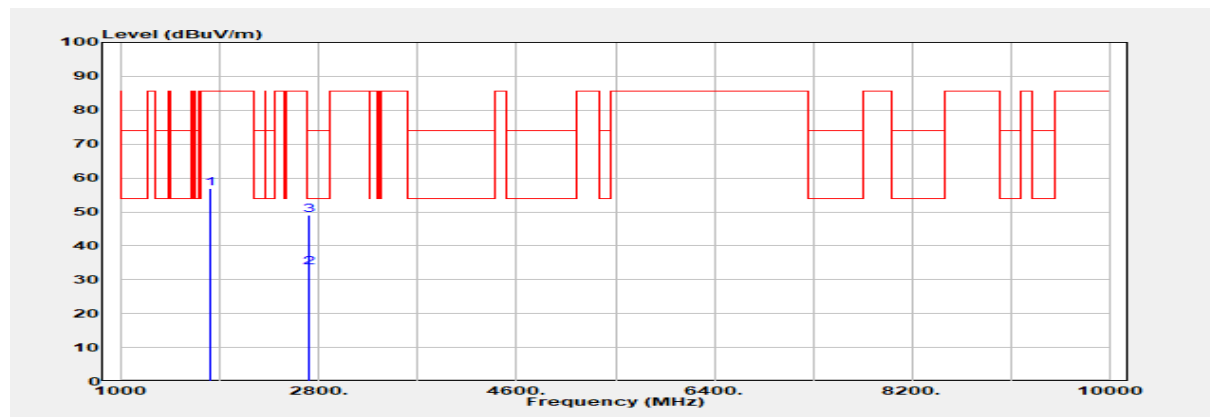
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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
1807.000	Peak	64.87	-7.91	56.96	85.57	-28.61
2710.500	Average	37.15	-3.64	33.51	54.00	-20.49
2710.500	Peak	52.74	-3.64	49.10	74.00	-24.90

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :914.5 MHz

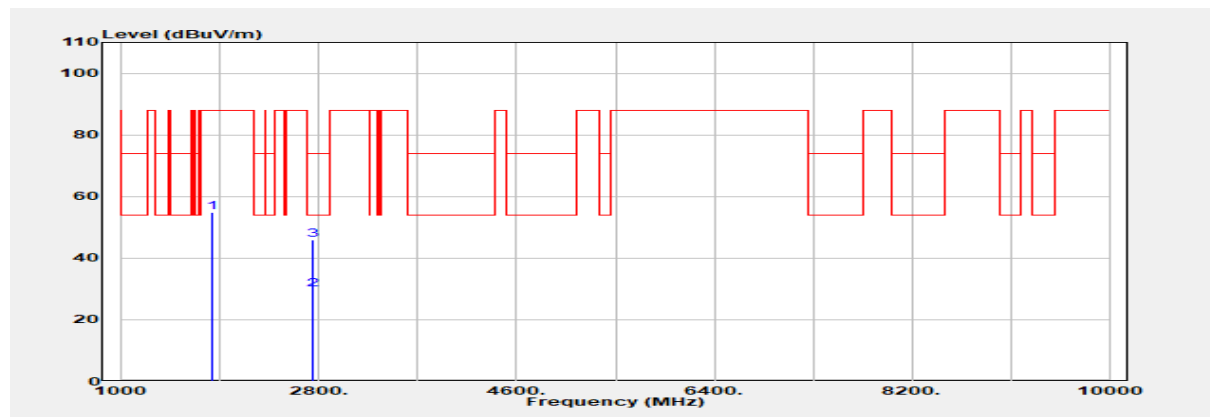
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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
1829.000	Peak	62.87	-7.87	55.00	87.81	-32.81
2743.500	Average	33.76	-3.95	29.81	54.00	-24.19
2743.500	Peak	49.87	-3.95	45.92	74.00	-28.08

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :914.5 MHz

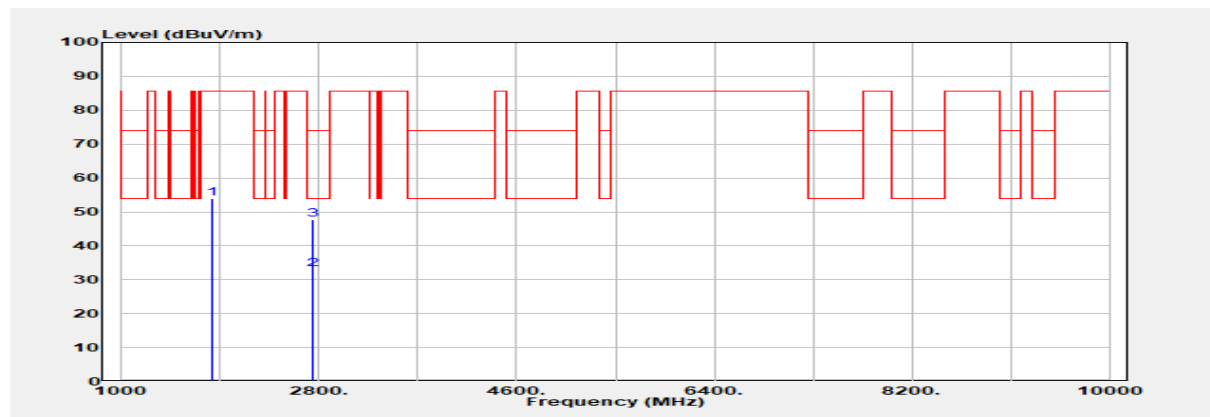
Temp./Humi. :21.1°C/63%

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
1829.000	Peak	61.72	-7.87	53.84	85.57	-31.73
2743.500	Average	37.11	-3.95	33.15	54.00	-20.85
2743.500	Peak	51.78	-3.95	47.83	74.00	-26.17

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

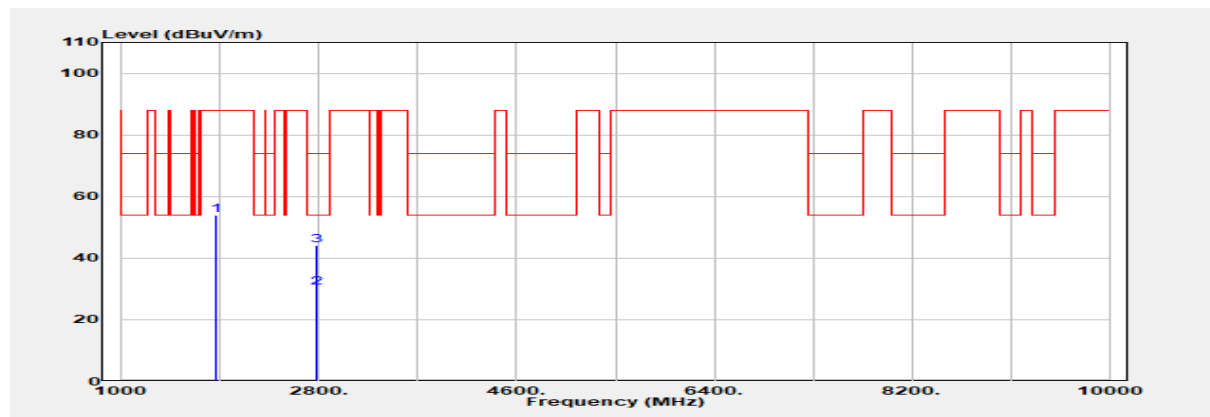
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1853.000	Peak	61.78	-7.84	53.95	87.81	-33.86
2779.500	Average	34.57	-4.08	30.49	54.00	-23.51
2779.500	Peak	48.18	-4.08	44.09	74.00	-29.91

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-06-21

Test Frequency :926.5 MHz

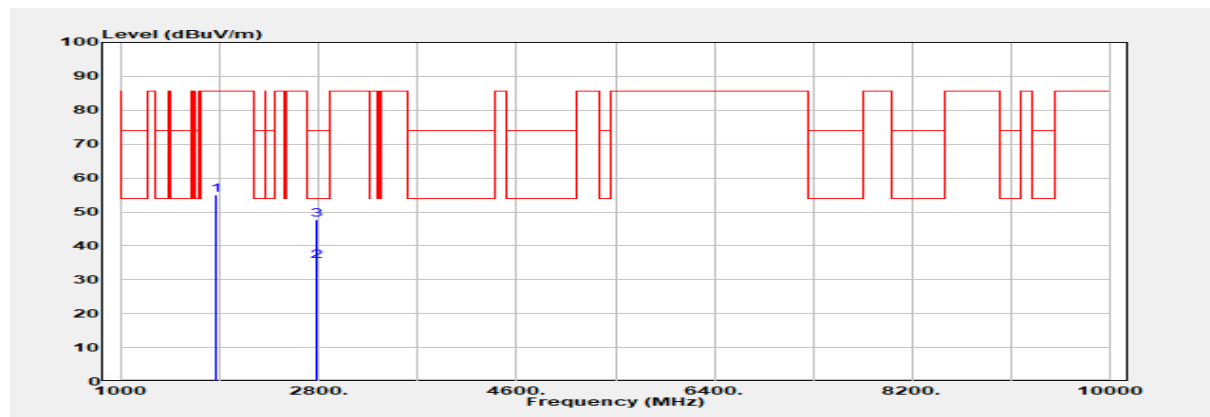
Temp./Humi. :21.1°C/63%

Test Mode :Tx

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
1853.000	Peak	62.74	-7.84	54.90	85.57	-30.67
2779.500	Average	39.64	-4.08	35.56	54.00	-18.44
2779.500	Peak	51.88	-4.08	47.79	74.00	-26.21

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :905 MHz

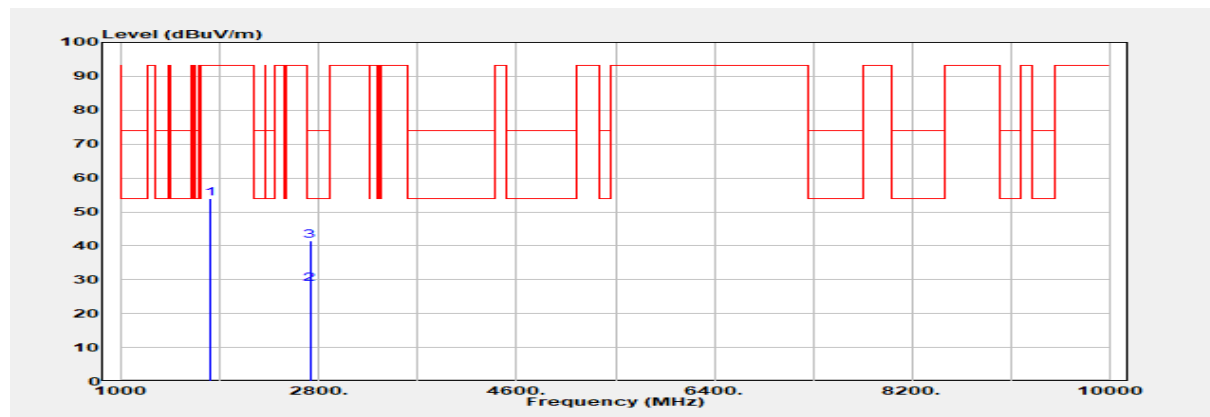
Temp./Humi. :21.9°C/65%

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	61.72	-7.90	53.82	93.25	-39.43
2715.000	Average	32.33	-3.68	28.65	54.00	-25.35
2715.000	Peak	45.04	-3.68	41.35	74.00	-32.65

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :905 MHz

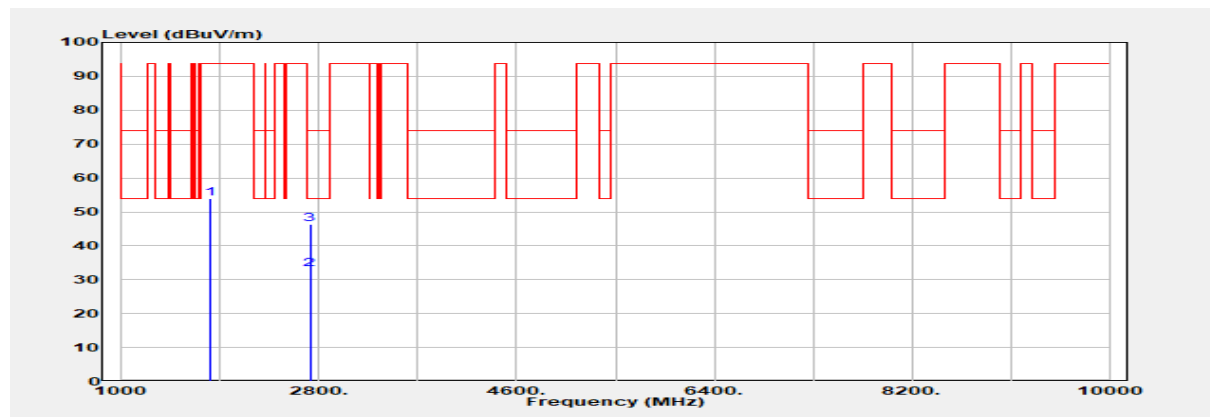
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1810.000	Peak	61.93	-7.90	54.03	93.85	-39.82
2715.000	Average	36.72	-3.68	33.04	54.00	-20.96
2715.000	Peak	49.94	-3.68	46.26	74.00	-27.74

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :915 MHz

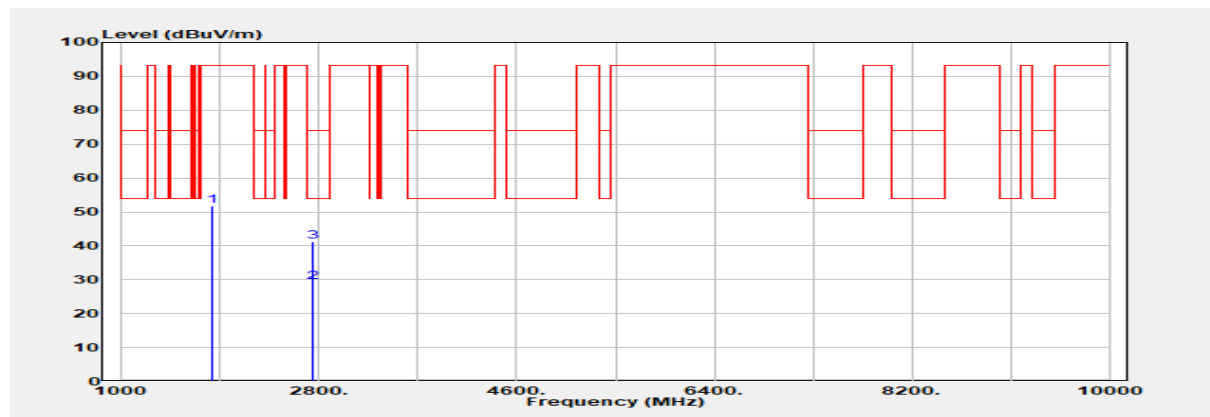
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1830.000	Peak	59.69	-7.87	51.81	93.25	-41.44
2745.000	Average	33.20	-3.97	29.23	54.00	-24.77
2745.000	Peak	45.06	-3.97	41.09	74.00	-32.91

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :915 MHz

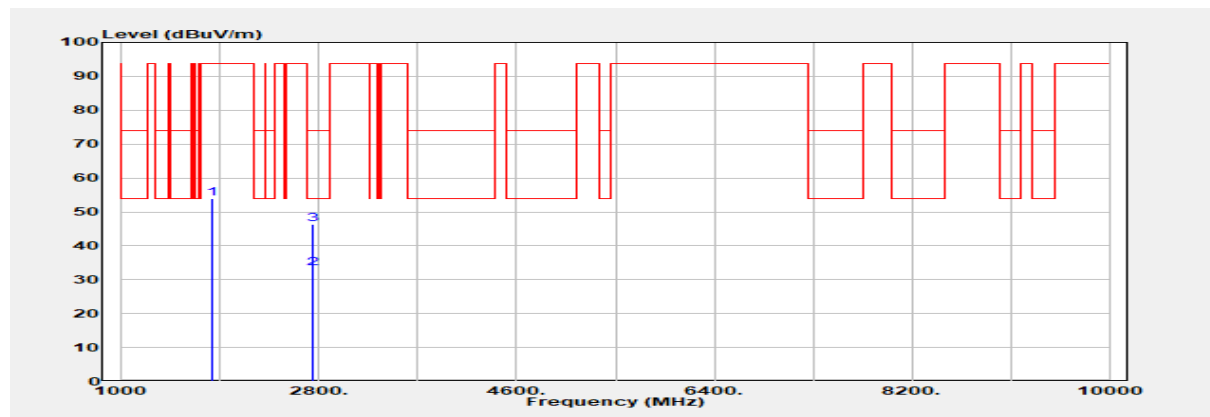
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1830.000	Peak	61.92	-7.87	54.05	93.85	-39.80
2745.000	Average	37.29	-3.97	33.32	54.00	-20.68
2745.000	Peak	50.38	-3.97	46.41	74.00	-27.59

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :925 MHz

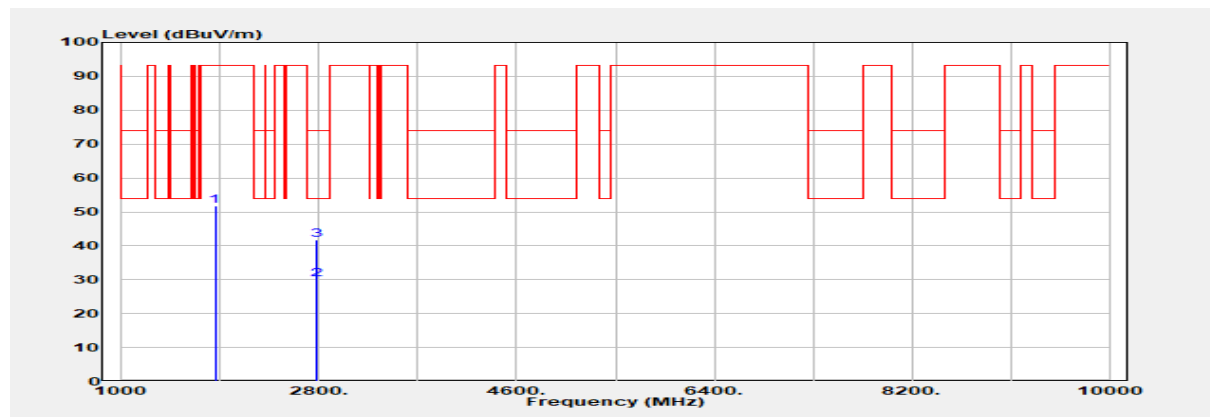
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1850.000	Peak	59.53	-7.84	51.69	93.25	-41.56
2775.000	Average	34.11	-4.07	30.04	54.00	-23.96
2775.000	Peak	45.87	-4.07	41.79	74.00	-32.21

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-06-02

Test Frequency :925 MHz

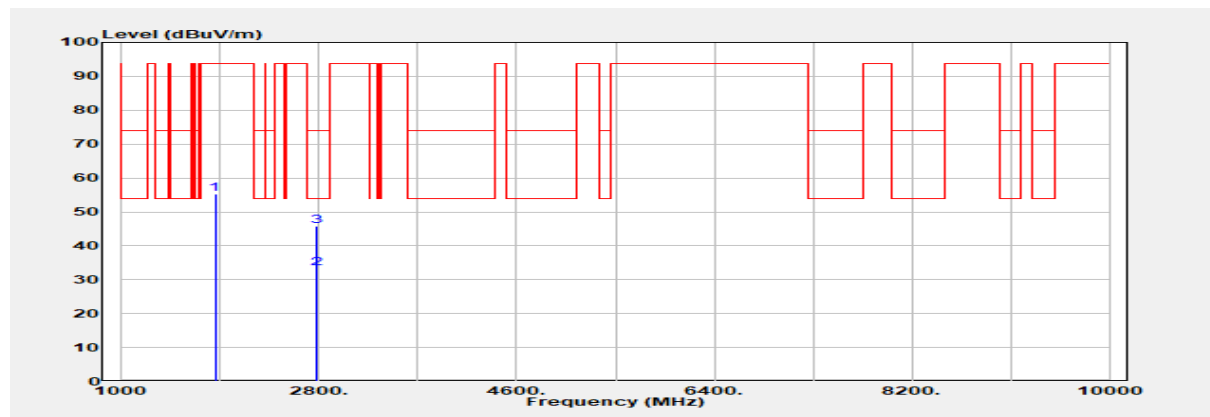
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1850.000	Peak	63.01	-7.84	55.17	93.85	-38.68
2775.000	Average	37.33	-4.07	33.26	54.00	-20.74
2775.000	Peak	49.81	-4.07	45.73	74.00	-28.27

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :906 MHz

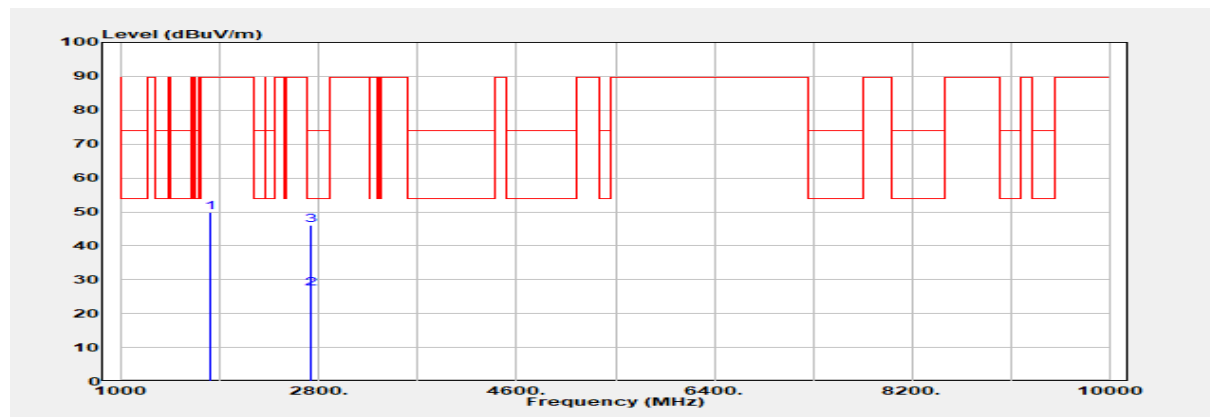
Temp./Humi. :21.9°C/65%

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	57.69	-7.90	49.79	89.73	-39.94
2718.000	Average	31.18	-3.71	27.47	54.00	-26.53
2718.000	Peak	49.76	-3.71	46.05	74.00	-27.95

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :906 MHz

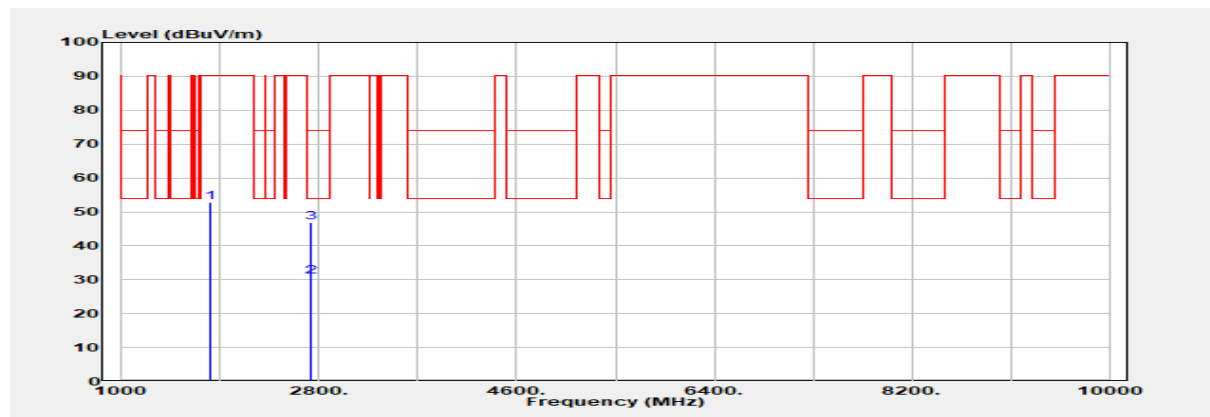
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1812.000	Peak	60.82	-7.90	52.92	90.15	-37.23
2718.000	Average	34.55	-3.71	30.84	54.00	-23.16
2718.000	Peak	50.47	-3.71	46.76	74.00	-27.24

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :914 MHz

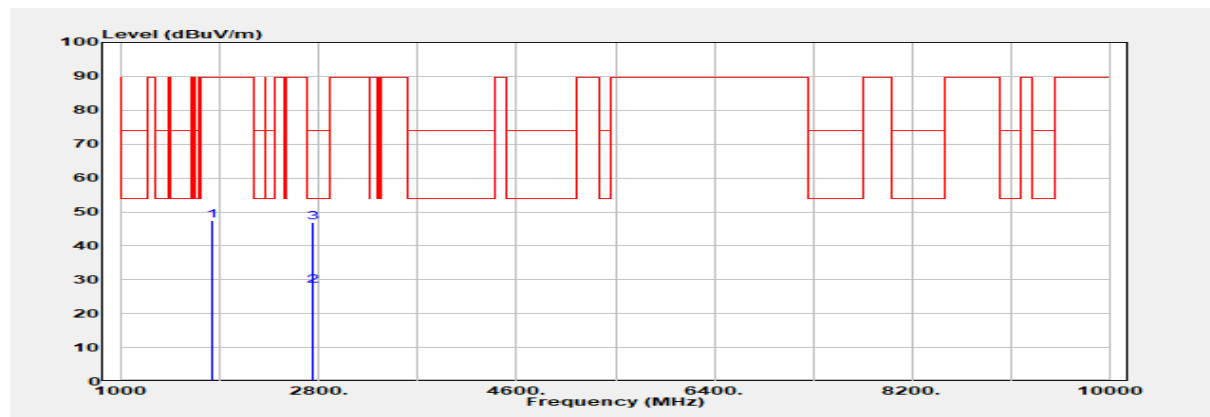
Temp./Humi. :21.9°C/65%

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
1828.000	Peak	55.23	-7.87	47.35	89.73	-42.38
2742.000	Average	32.21	-3.94	28.27	54.00	-25.73
2742.000	Peak	50.83	-3.94	46.89	74.00	-27.11

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :914 MHz

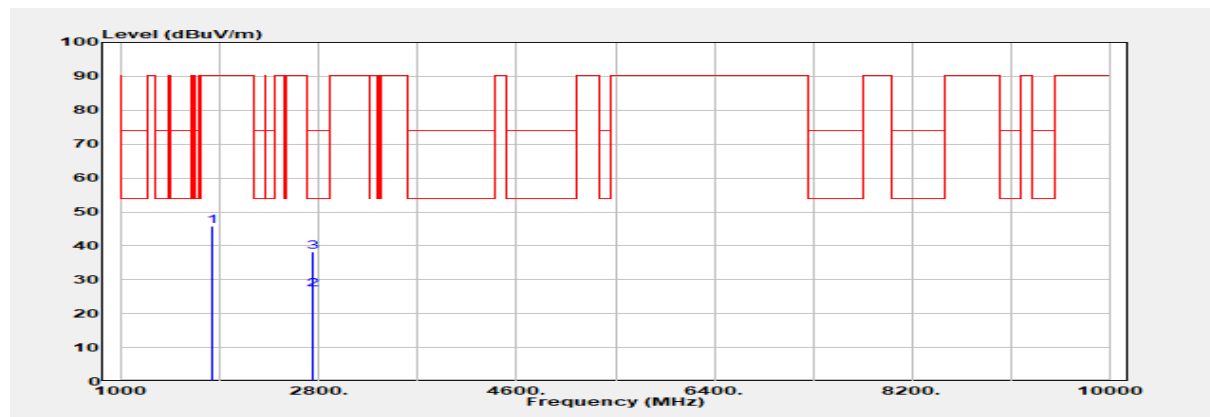
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1828.000	Peak	53.73	-7.87	45.86	90.15	-44.29
2742.000	Average	30.96	-3.94	27.02	54.00	-26.98
2742.000	Peak	42.20	-3.94	38.26	74.00	-35.74

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :926 MHz

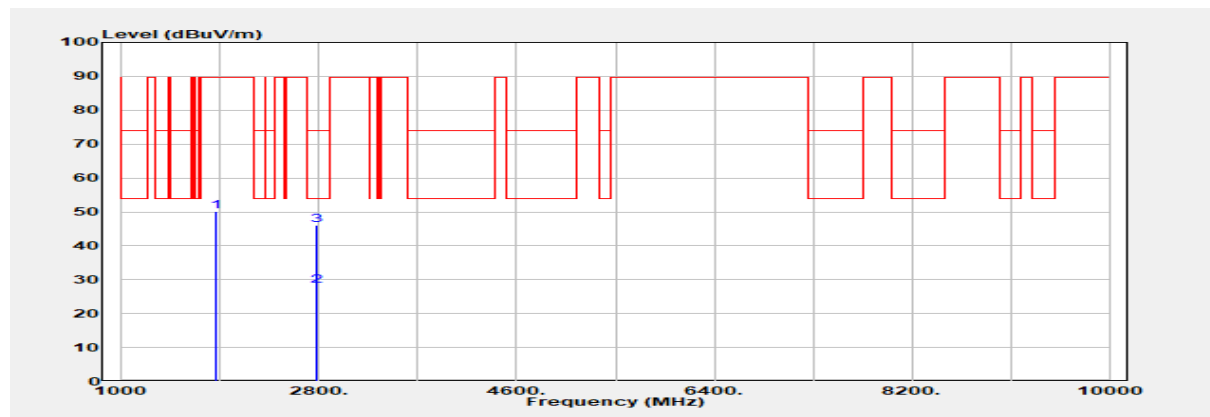
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1852.000	Peak	57.92	-7.84	50.08	89.73	-39.65
2778.000	Average	32.40	-4.08	28.32	54.00	-25.68
2778.000	Peak	50.11	-4.08	46.03	74.00	-27.97

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-02

Test Frequency :926 MHz

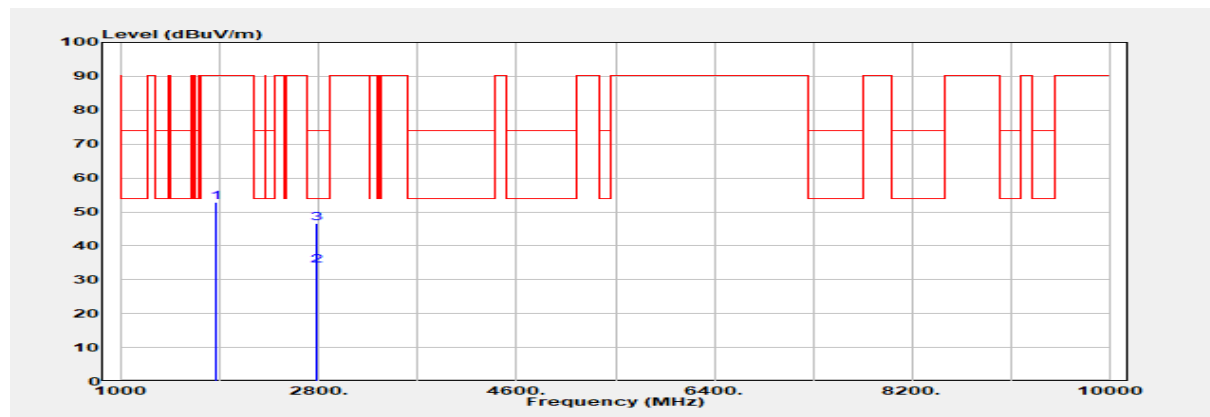
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1852.000	Peak	60.69	-7.84	52.85	90.15	-37.30
2778.000	Average	38.26	-4.08	34.18	54.00	-19.82
2778.000	Peak	50.56	-4.08	46.48	74.00	-27.52

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :908 MHz

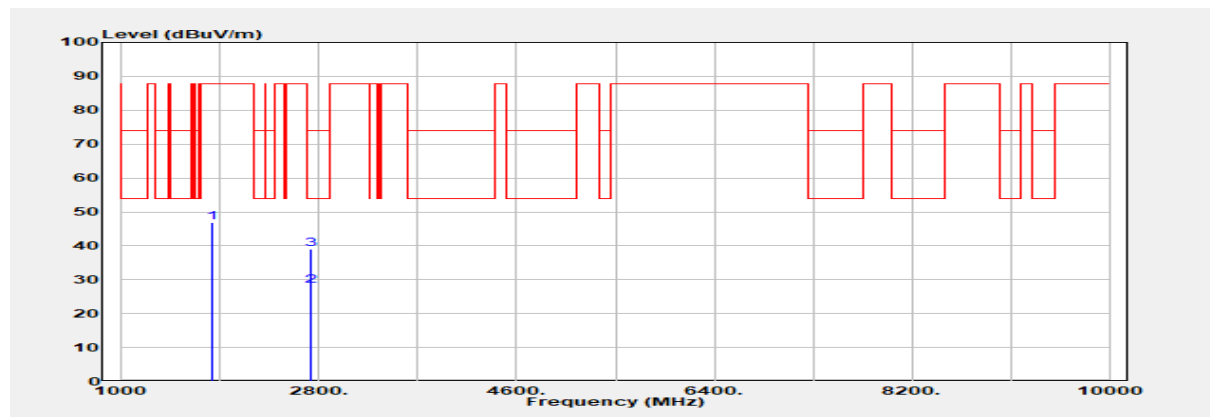
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1816.000	Peak	54.82	-7.89	46.93	87.94	-41.01
2724.000	Average	32.01	-3.77	28.24	54.00	-25.76
2724.000	Peak	42.85	-3.77	39.08	74.00	-34.92

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :908 MHz

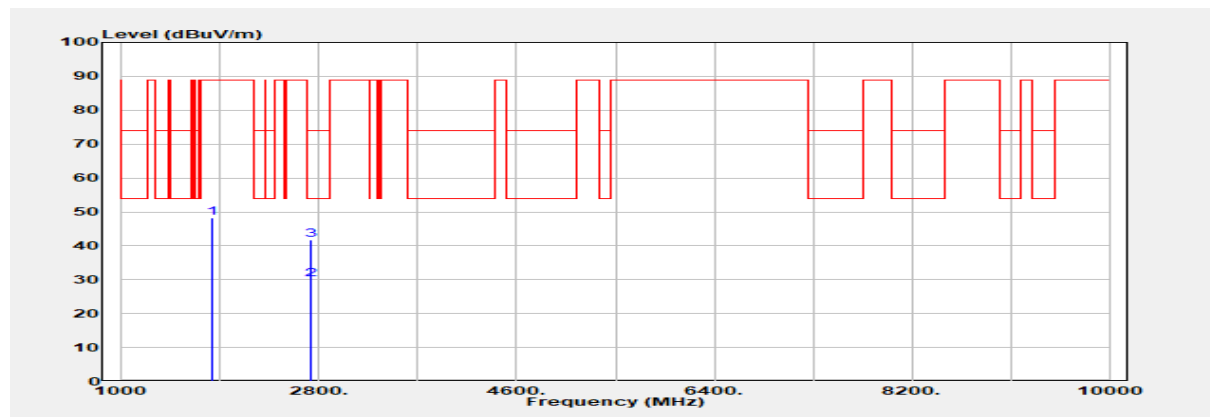
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1816.000	Peak	56.18	-7.89	48.29	88.89	-40.60
2724.000	Average	33.89	-3.77	30.12	54.00	-23.88
2724.000	Peak	45.61	-3.77	41.84	74.00	-32.16

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :916 MHz

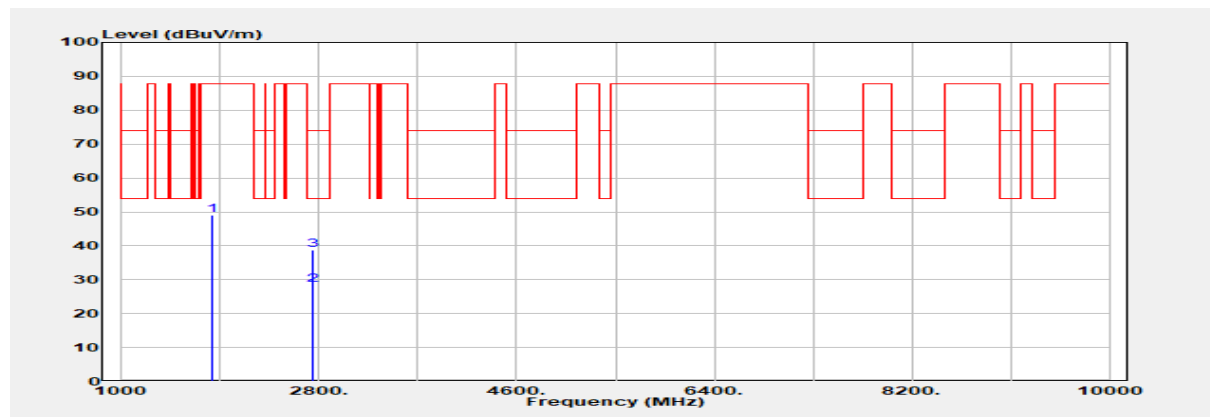
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1832.000	Peak	56.90	-7.87	49.03	87.94	-38.91
2748.000	Average	32.34	-4.00	28.35	54.00	-25.65
2748.000	Peak	42.87	-4.00	38.88	74.00	-35.12

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :916 MHz

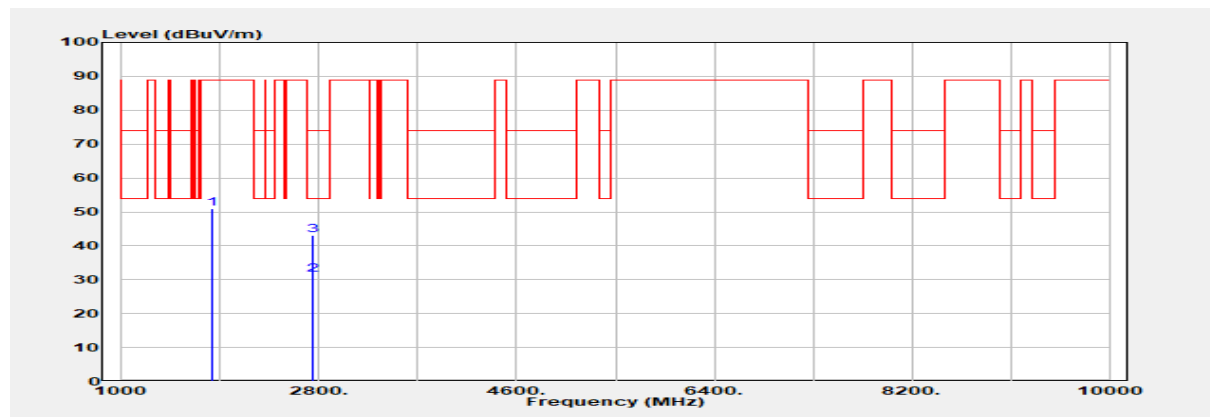
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1832.000	Peak	58.75	-7.87	50.89	88.89	-38.00
2748.000	Average	35.42	-4.00	31.43	54.00	-22.57
2748.000	Peak	47.20	-4.00	43.20	74.00	-30.80

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :924 MHz

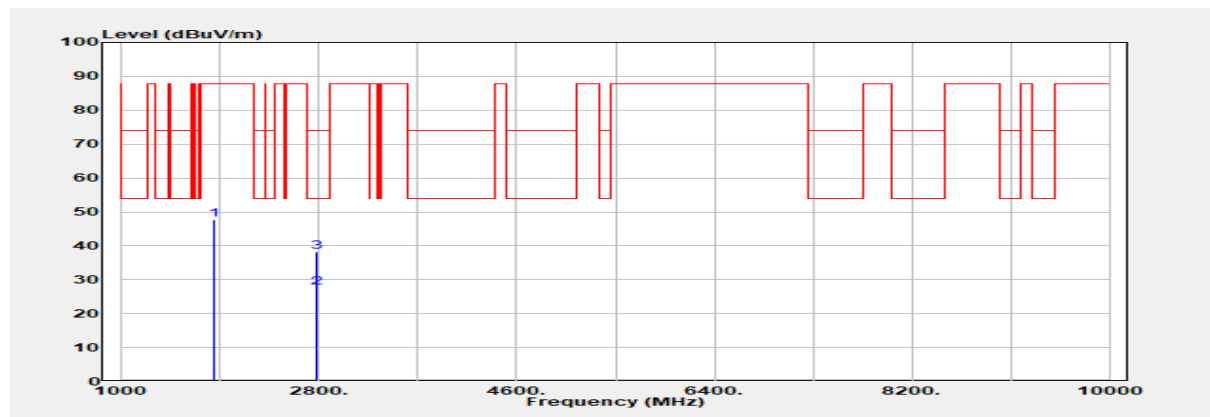
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1848.000	Peak	55.60	-7.84	47.76	87.94	-40.18
2772.000	Average	31.78	-4.07	27.71	54.00	-26.29
2772.000	Peak	42.41	-4.07	38.34	74.00	-35.66

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Report Number :TERF2404001148E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-02

Test Frequency :924 MHz

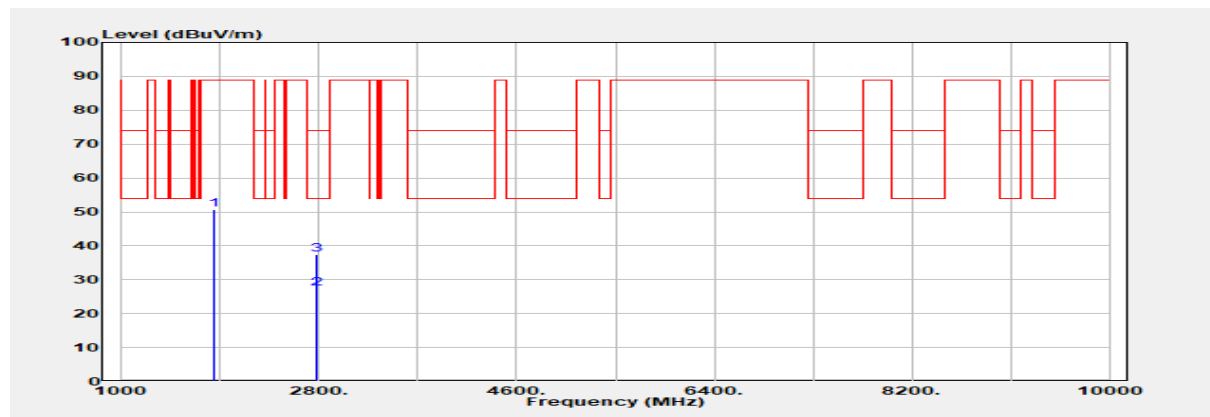
Temp./Humi. :21.9°C/65%

Test Mode :Tx

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
1848.000	Peak	58.54	-7.84	50.70	88.89	-38.19
2772.000	Average	31.33	-4.07	27.26	54.00	-26.74
2772.000	Peak	41.56	-4.07	37.49	74.00	-36.51

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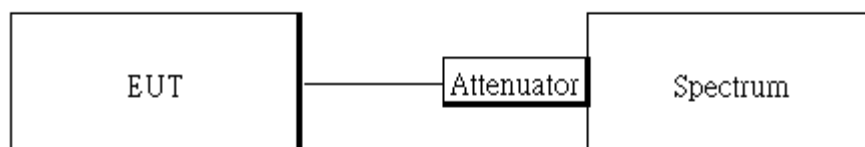
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

Per Part 15.247 (e) & RSS-247 section 5.2 b

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

12.2 Test Setup



12.3 Measurement Procedure:

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

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12.4 Measurement Result:**12.4.1 Peak Power Spectral Density**

OFDM 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
903.5	-2.912	8	PASS
914.5	-1.603	8	PASS
926.5	-1.259	8	PASS

Note:1.cable loss as 10.5dB that offsets in the spectrum*

OFDM 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
905	3.49	8	PASS
915	3.36	8	PASS
925	4.29	8	PASS

Note:1.cable loss as 10.5dB that offsets in the spectrum*

OFDM 4M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
906	0.06	8	PASS
914	0.09	8	PASS
926	0.89	8	PASS

Note:1.cable loss as 10.5dB that offsets in the spectrum*

OFDM 8M mode

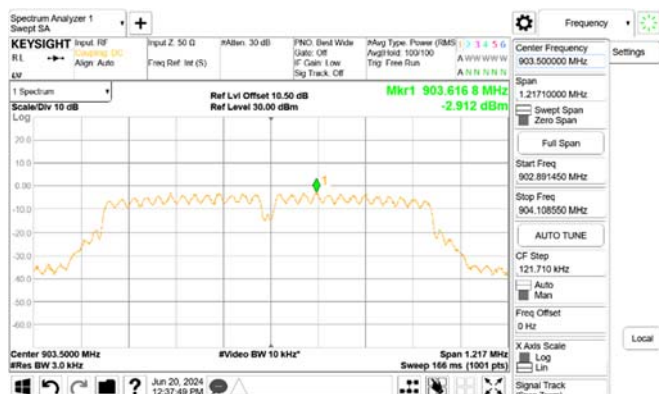
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
908	-2.60	8	PASS
916	-2.53	8	PASS
924	-1.86	8	PASS

Note:1.cable loss as 10.5dB that offsets in the spectrum*

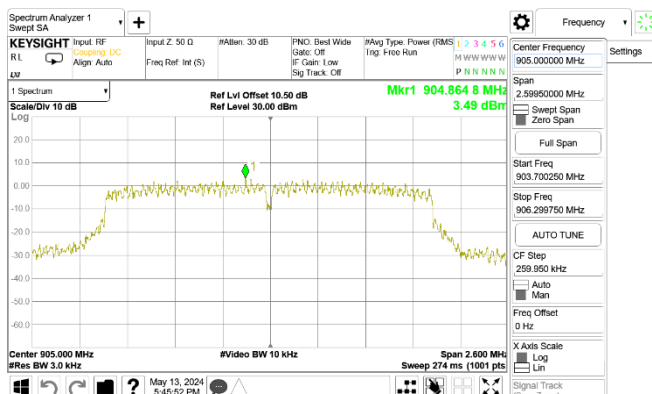
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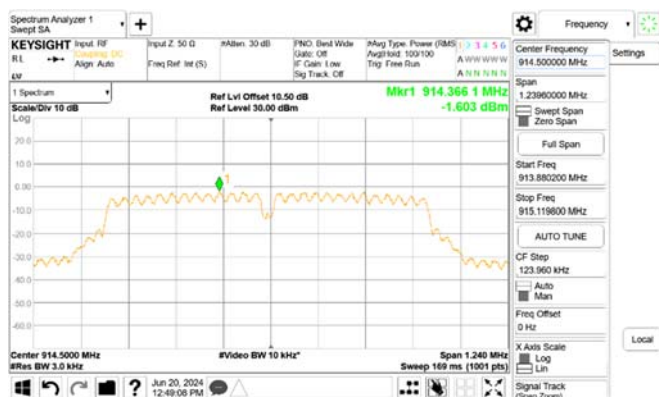
OFDM_1M_LowCH-903.5



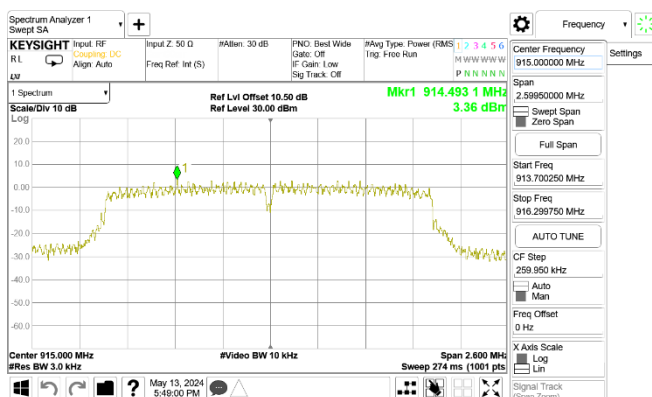
OFDM_2M_LowCH-905



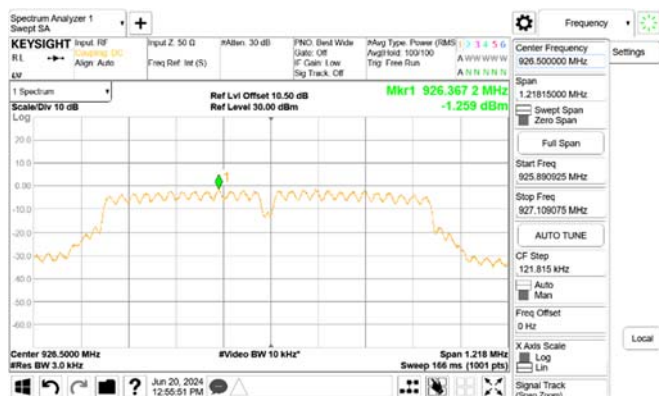
OFDM_1M_MidCH-914.5



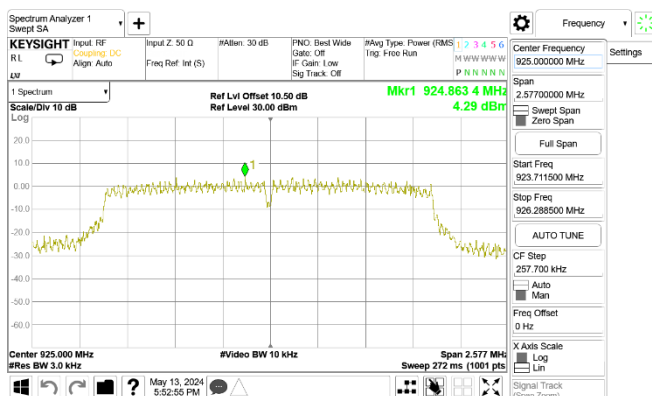
OFDM_2M_MidCH-915



OFDM_1M_HighCH-926.5



OFDM_2M_HighCH-925



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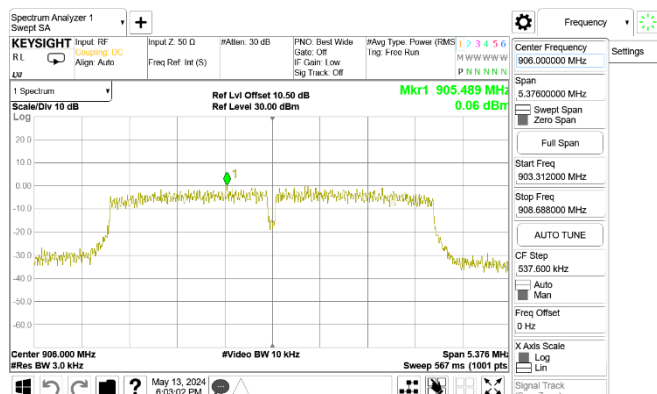
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f (886-2) 2298-0488

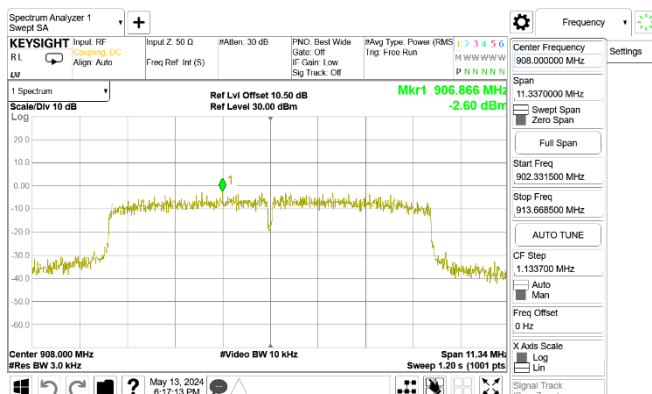
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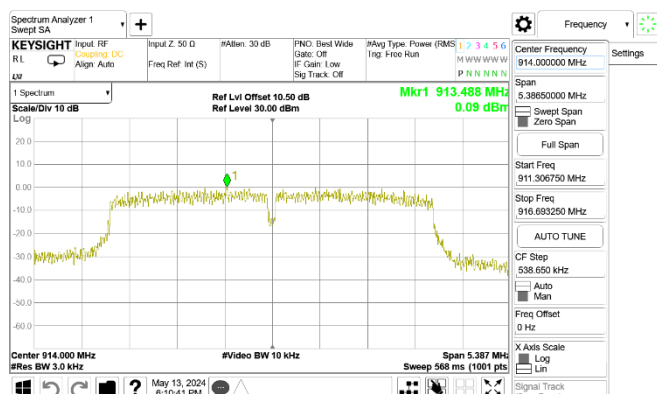
OFDM_4M_LowCH-906



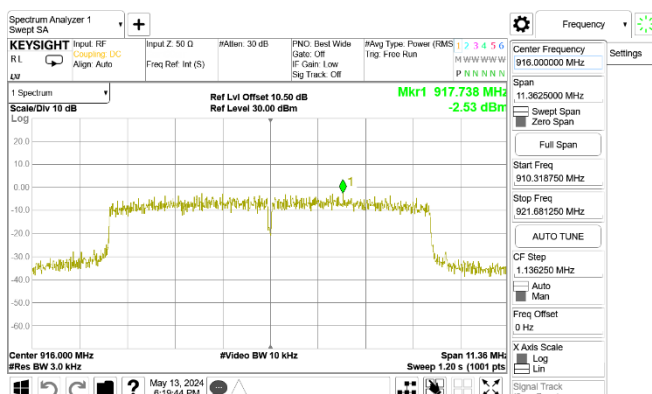
OFDM_8M_LowCH-908



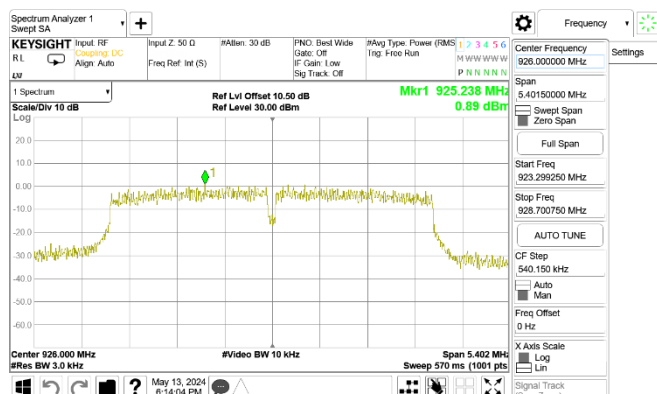
OFDM_4M_MidCH-914



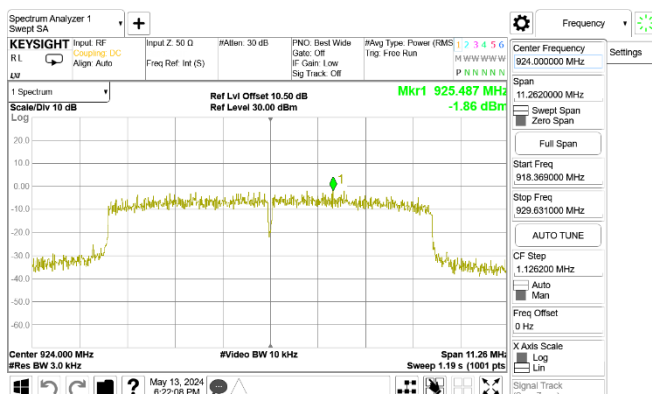
OFDM_8M_MidCH-916



OFDM_4M_HighCH-926



OFDM_8M_HighCH-924



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable:

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

13.2 Antenna Connected Construction:

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

~ End of Report ~

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