

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY,
TAIWAN 11259

Manufacturer: PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY,
TAIWAN 11259

Product Name: Peek Camera

Brand Name: Vantiva

Model No.: SMC4111IOT

Report Number: TERF2408002341E2

FCC ID VUISMJ4111

Date of EUT Received: August 9, 2024

Date of Test: August 20, 2024~ August 22, 2024

Issue Date: September 3, 2024

Approved By

Arno Hsieh

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2408002341E2	00	Original	September 3, 2024	Yuri Tsai	

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:	Peek Camera
Brand Name:	Vantiva
Model No.:	SMC4111IOT
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N/A
Power Supply:	3Vdc
Test Software (Name/Version)	mm_rf_tester_v1.12

1.2 RF Specification

Radio Technology:	802.11ah
Frequency Range:	902 – 928MHz
Modulation type:	OFDM (MCS0~9)
Transmit Power:	OFDM 1M: 26.71 dBm (Peak) OFDM 2M: 26.74 dBm (Peak) OFDM 4M: 26.75 dBm (Peak) OFDM 8M: 26.75 dBm (Peak)

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
On board printing Antenna	902~928	1.65

Note: 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

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 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50 μ H/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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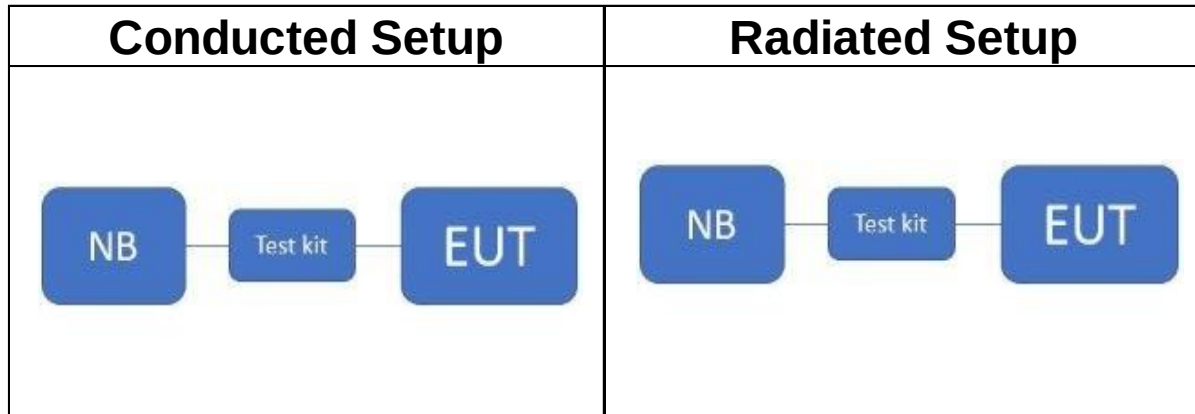
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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	N/A
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.205	Restricted Bands	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	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 gevin UE is pre-scanned among below modes.

CONDUCTED TEST			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION
802.11ah 1M	903.5 to 926.5	903.5,915.5,926.5	OFDM
802.11ah 2M	905 to 925	905,915,925	OFDM
802.11ah 4M	906 to 926	906,918,926	OFDM
802.11ah 8M	908 to 924	908,916,924	OFDM
RADIATED EMISSION TEST (BELOW 1 GHz)			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION
802.11ah 1M	903.5 to 926.5	915.5	OFDM
802.11ah 2M	905 to 925	915	OFDM
802.11ah 4M	906 to 926	918	OFDM
802.11ah 8M	908 to 924	916	OFDM
RADIATED EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION
802.11ah 1M	903.5 to 926.5	903.5,915.5,926.5	OFDM
802.11ah 2M	905 to 925	905,915,925	OFDM
802.11ah 4M	906 to 926	906,918,926	OFDM
802.11ah 8M	908 to 924	908,916,924	OFDM

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

N/A

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF19	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF155	11/15/2023	11/14/2024
Power Meter	Anritsu	ML2496A	2138005	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911395	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911396	09/25/2023	09/24/2024
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/24/2024	05/23/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Highpass Filter	WI	WHKX1.1/15G	RF172	11/15/2023	11/14/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Notch Filter	Woken	EWT-54-0037	RF177	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
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

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

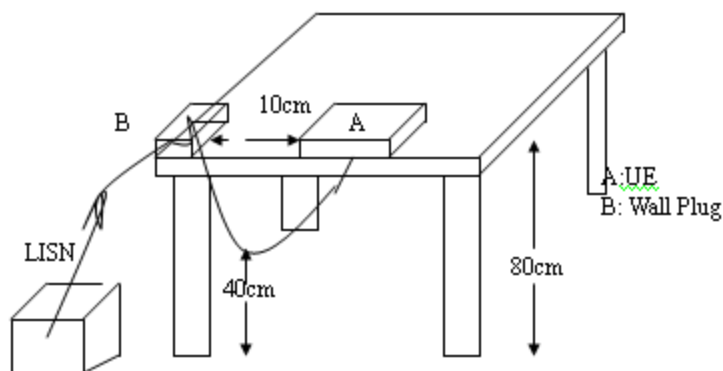
Note

- 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:

N/A; Powered from AA battery.

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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)

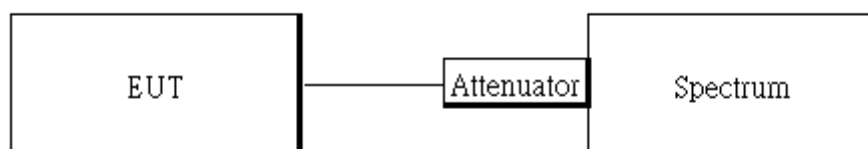
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

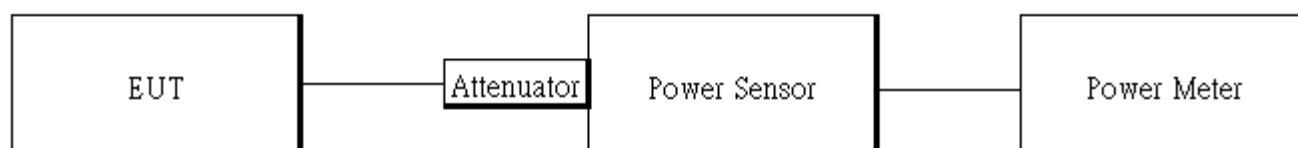
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



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

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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	88.54	0.53	0.29	1.00
OFDM_2M	78.79	1.04	0.64	1.00
OFDM_4M	67.95	1.68	1.14	2.00
OFDM_8M	57.73	2.39	1.79	2.00

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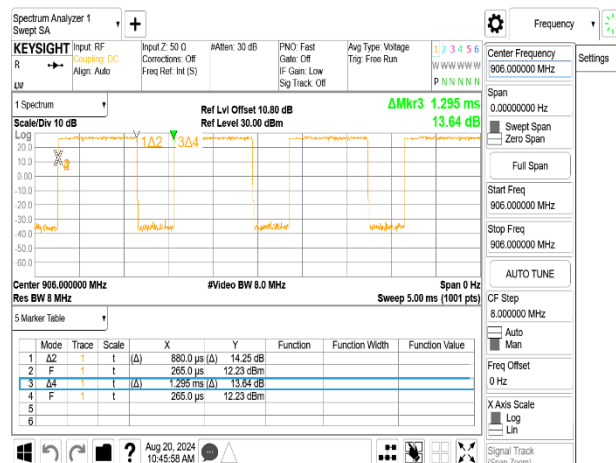
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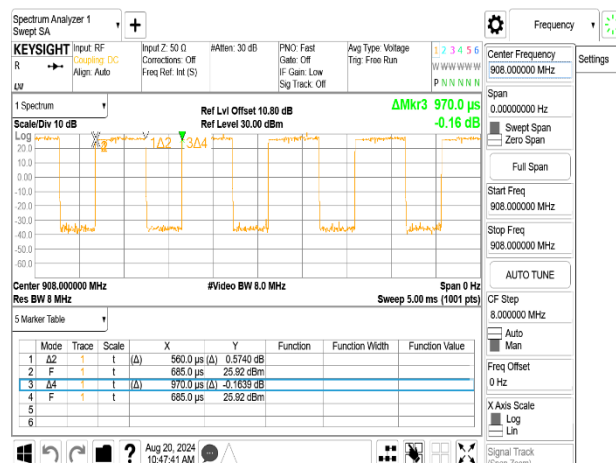
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OFDM 4M LowCH-906



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	2	26.47	30
Mid	915.5	2	26.71	30
High	926.5	2	26.54	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	903.5	2	21.61	30
Mid	915.5	2	21.88	30
High	926.5	2	21.49	30

***Note:**

1.Measured by power meter, cable loss 10.8 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 2M mode

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	905	2	26.51	30
Mid	915	2	26.74	30
High	925	2	26.54	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	905	2	21.57	30
Mid	915	2	21.82	30
High	925	2	21.64	30

***Note:**

1.Measured by power meter, cable loss 10.8 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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OFDM 4M mode

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	906	2	26.72	30
Mid	914	2	26.75	30
High	926	2	26.66	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	906	2	21.57	30
Mid	914	2	21.80	30
High	926	2	21.61	30

***Note:**

1. Measured by power meter, cable loss 10.8 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 8M mode

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	908	2	26.69	30
Mid	916	2	26.75	30
High	924	2	26.70	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	908	2	21.54	30
Mid	916	2	21.78	30
High	924	2	21.66	30

***Note:**

1. Measured by power meter, cable loss 10.8 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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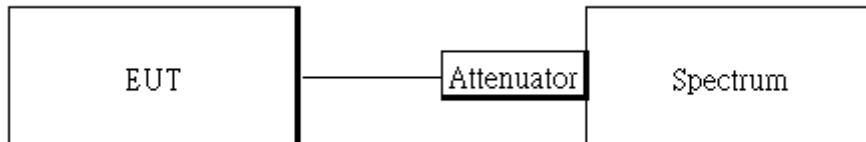
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9 EMISSION BANDWIDTH MEASUREMENT

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.

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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	0.8225	≥ 0.5	PASS
914.5	0.829	≥ 0.5	PASS
926.5	0.8296	≥ 0.5	PASS

OFDM 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
905	1.742	≥ 0.5	PASS
915	1.723	≥ 0.5	PASS
925	1.739	≥ 0.5	PASS

OFDM 4M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
906	3.586	≥ 0.5	PASS
914	3.606	≥ 0.5	PASS
926	3.585	≥ 0.5	PASS

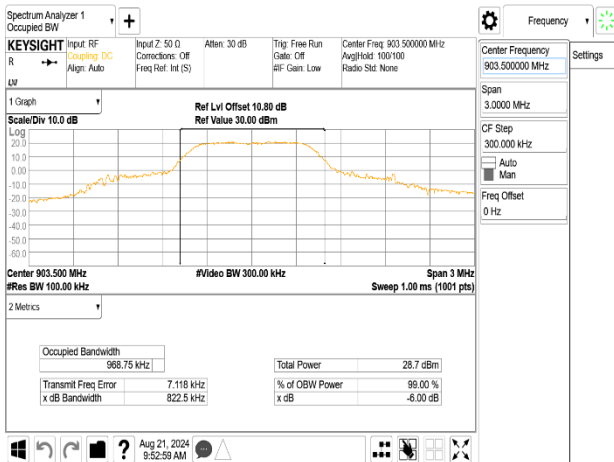
OFDM 8M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
908	7.555	≥ 0.5	PASS
916	7.526	≥ 0.5	PASS
924	7.55	≥ 0.5	PASS

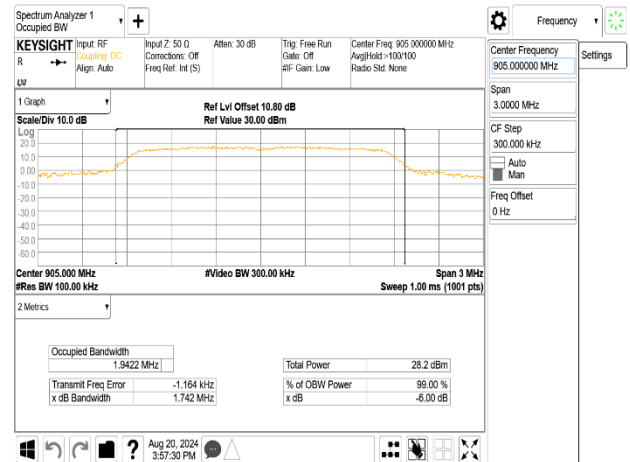
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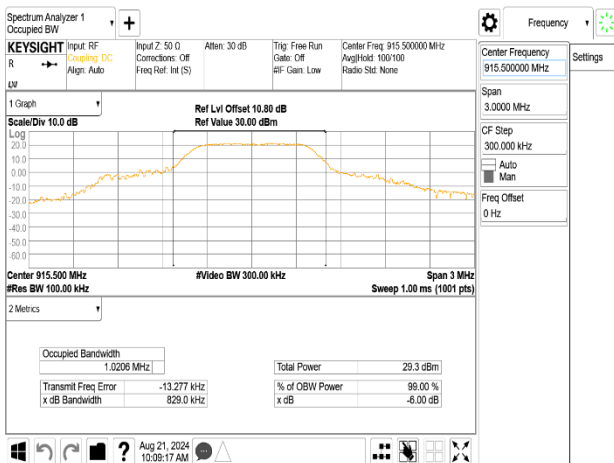
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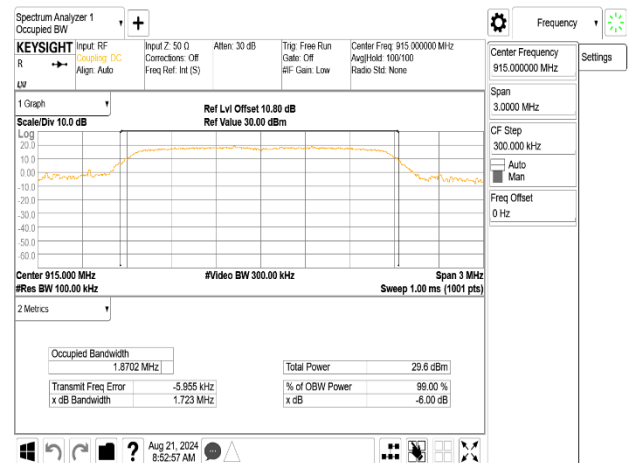
OBW_OFDM_2M_LowCH-905



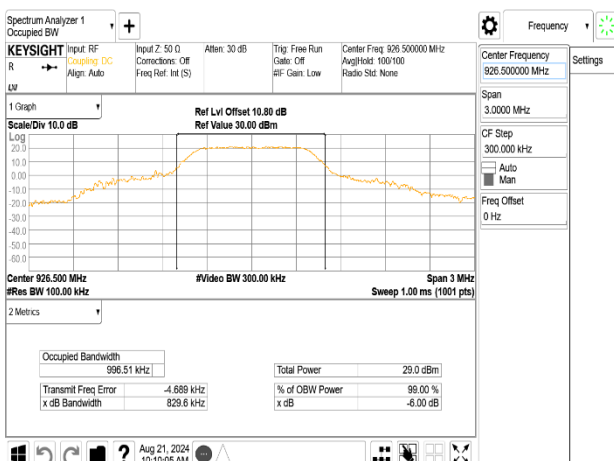
OBW_OFDM_1M_MidCH-915.5



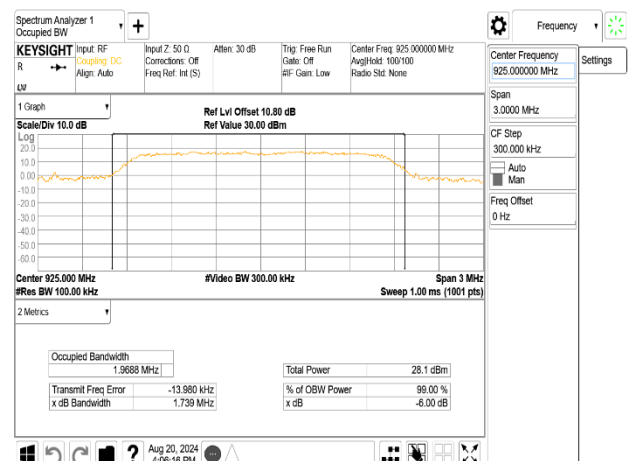
OBW_OFDM_2M_MidCH-915



OBW_OFDM_1M_HighCH-926.5



OBW_OFDM_2M_HighCH-925

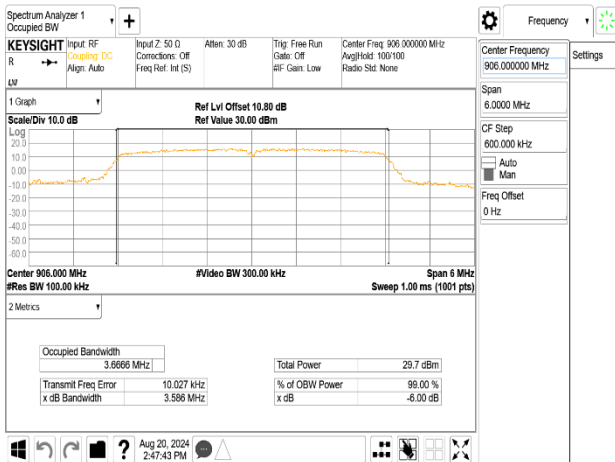


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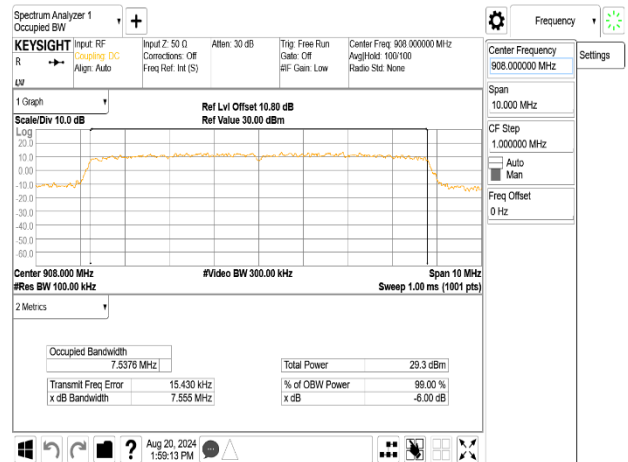
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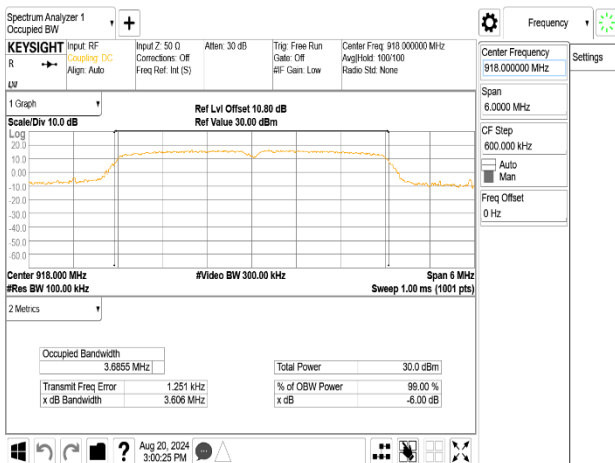
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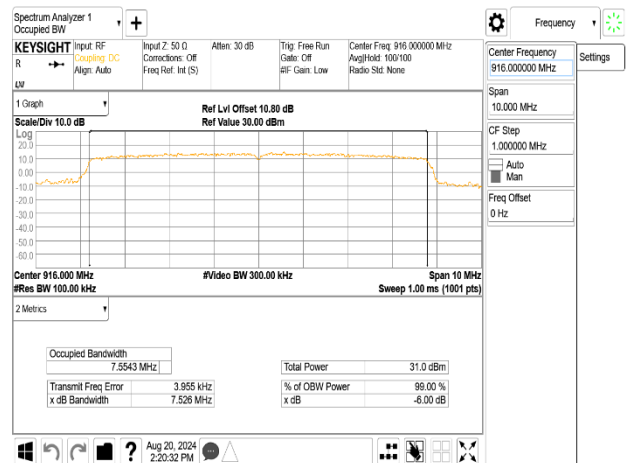
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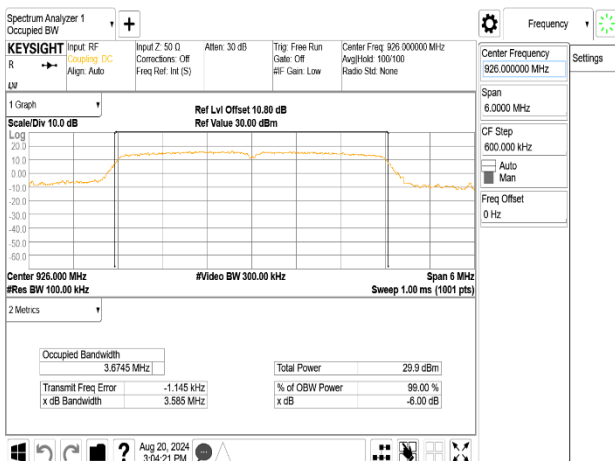
OBW_OFDM_4M_MidCH-914



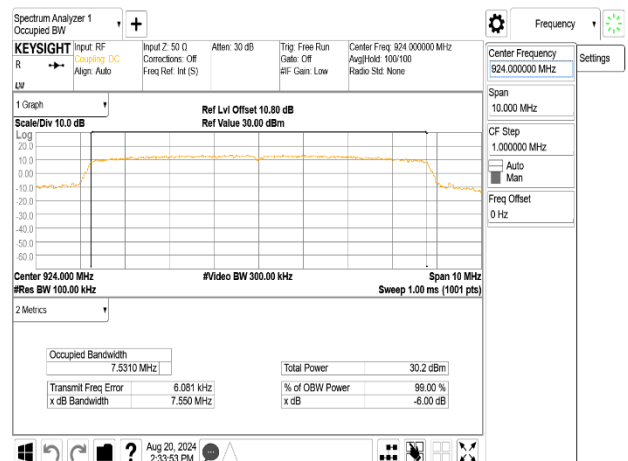
OBW_OFDM_8M_MidCH-916



OBW_OFDM_4M_HighCH-926



OBW_OFDM_8M_HighCH-924



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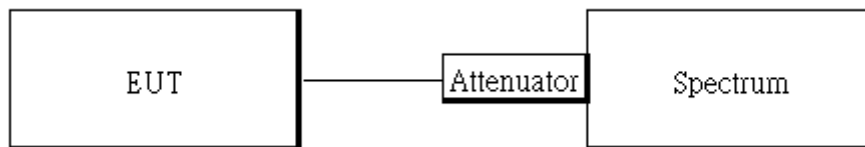
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

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. OFDM 1M Detector = average
OFDM 2M & 4M & 8M 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	21.07	-8.93
914.5	21.56	-8.44
926.5	21.48	-8.52

***Note:**

- 1.cable loss as 10.8dB 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	17.06	-2.94
915	18.65	-1.35
925	18.16	-1.84

***Note:**

- 1.cable loss as 10.8dB that offsets in the spectrum
- 2.Refer to next page for plots.

OFDM 4M mode_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
906	16.17	-3.83
914	16.31	-3.69
926	15.79	-4.21

***Note:**

- 1.cable loss as 10.8dB that offsets in the spectrum
- 2.Refer to next page for plots.

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OFDM 8M mode_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
908	13.53	-6.47
916	14.01	-5.99
924	13.68	-6.32

***Note:**

1.cable loss as 10.8dB that offsets in the spectrum

2.Refer to next page for plots.

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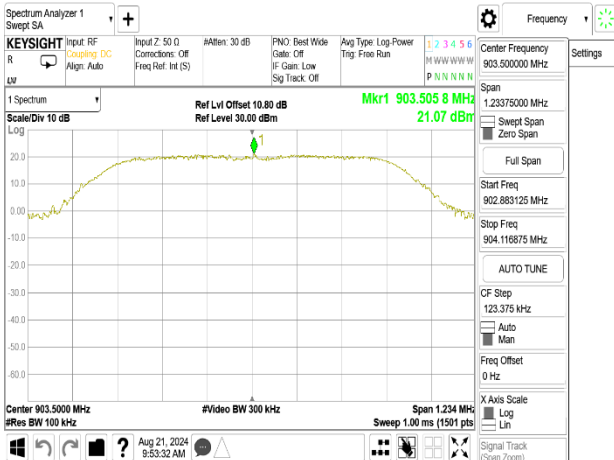
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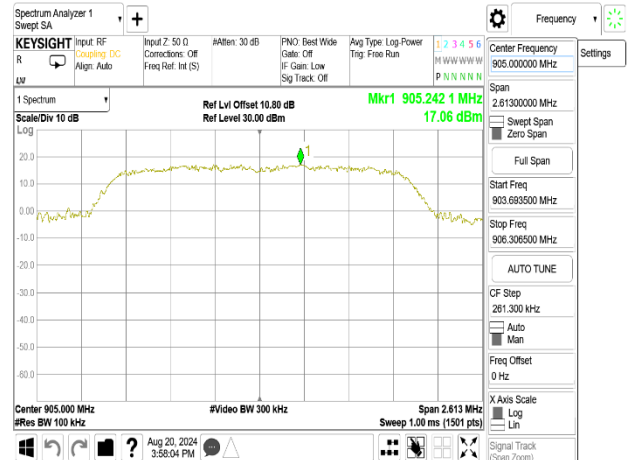
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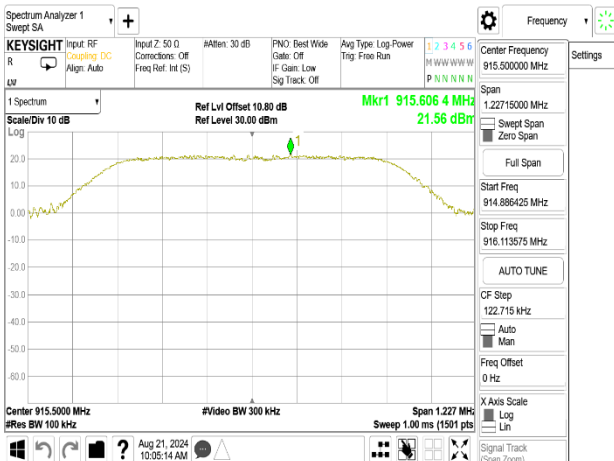
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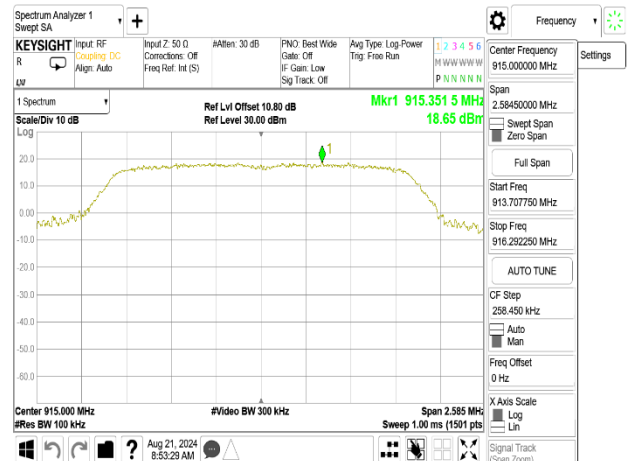
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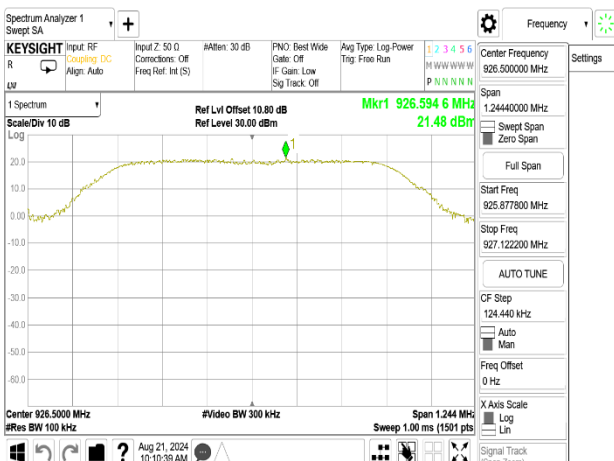
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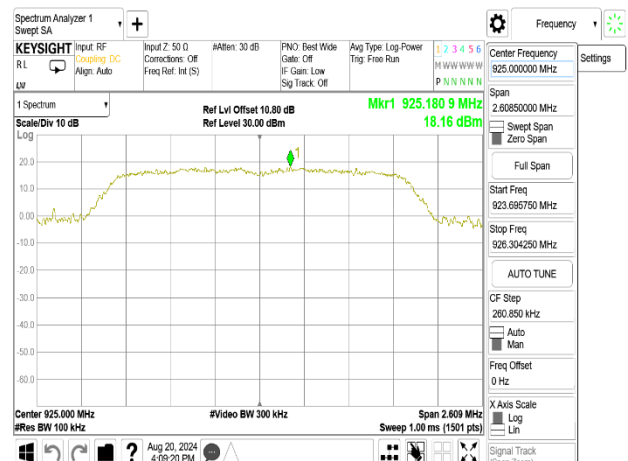
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Reference Level_OFDM_1M_HighCH-926.5



Reference Level_OFDM_2M_HighCH-925

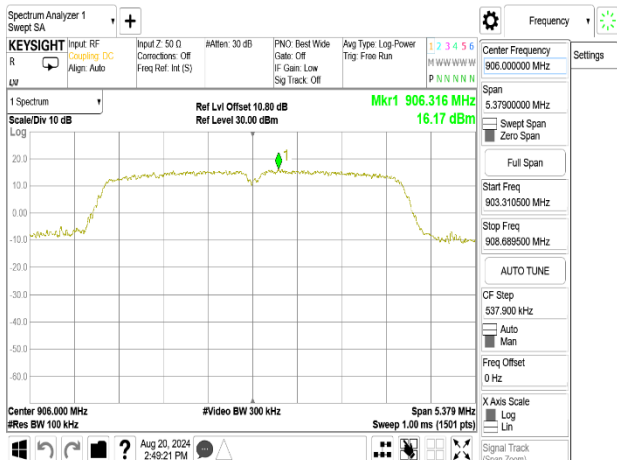


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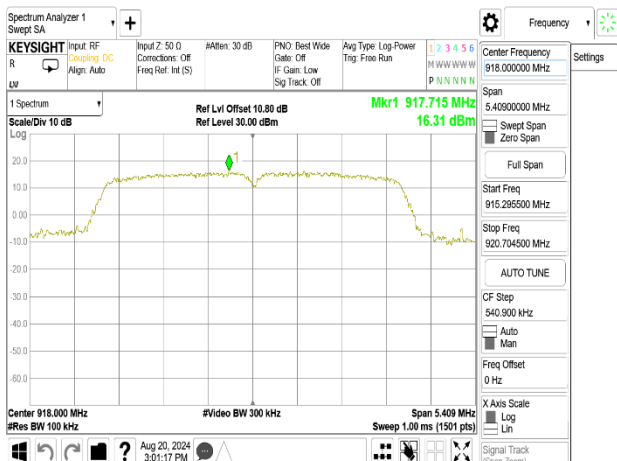
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Reference Level_OFDM_8M_LowCH-908



Reference Level_OFDM_4M_MidCH-914



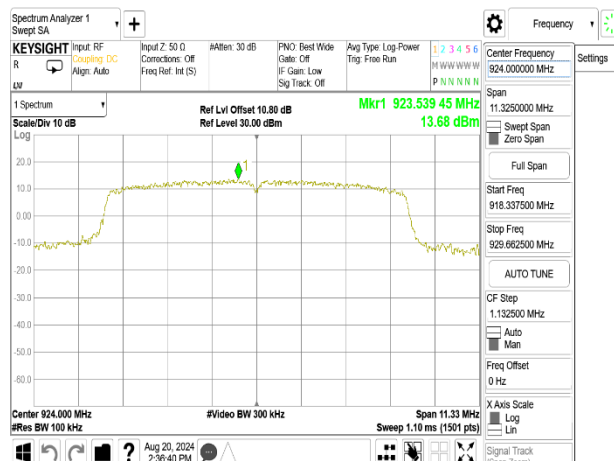
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Reference Level_OFDM_4M_HighCH-926



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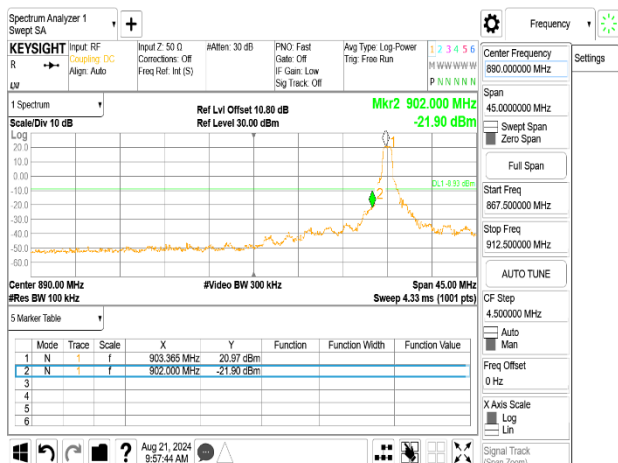


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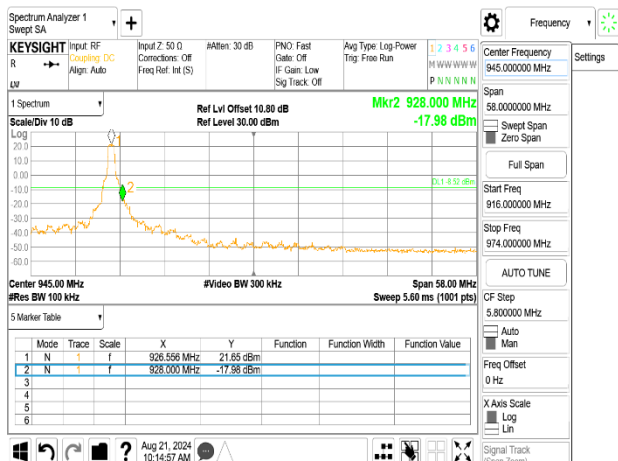
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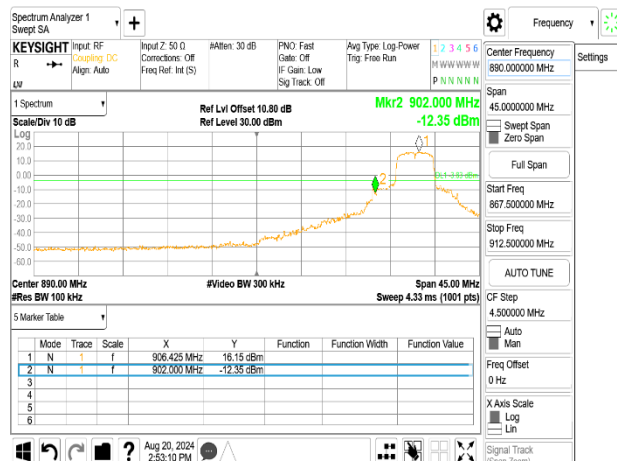
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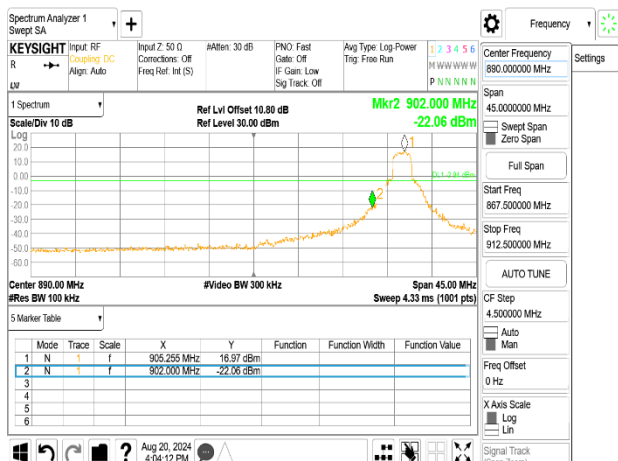
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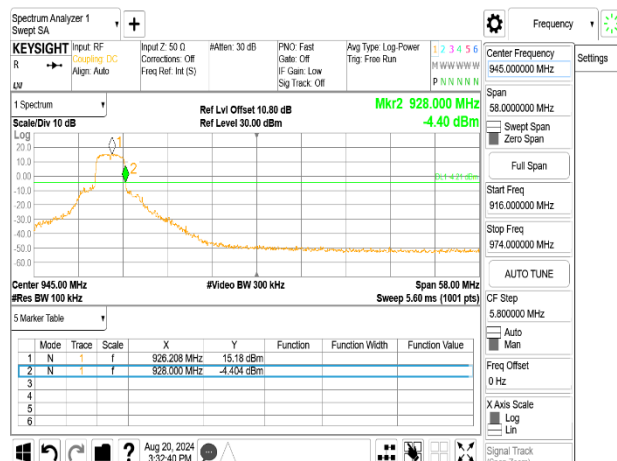
Band Edge_OFDM_4M_LowCH-906



Band Edge_OFDM_2M_LowCH-905



Band Edge_OFDM_4M_HighCH-926



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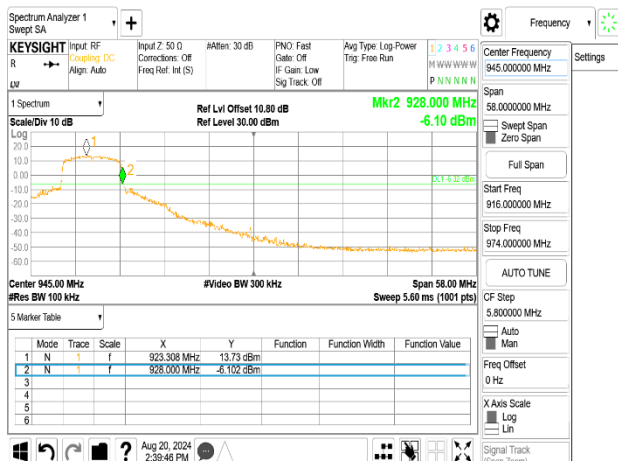
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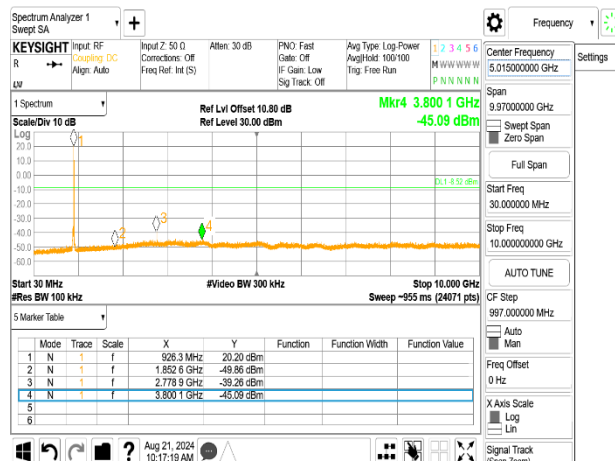
Spurious Emission_OFDM_1M_MidCH-915.5



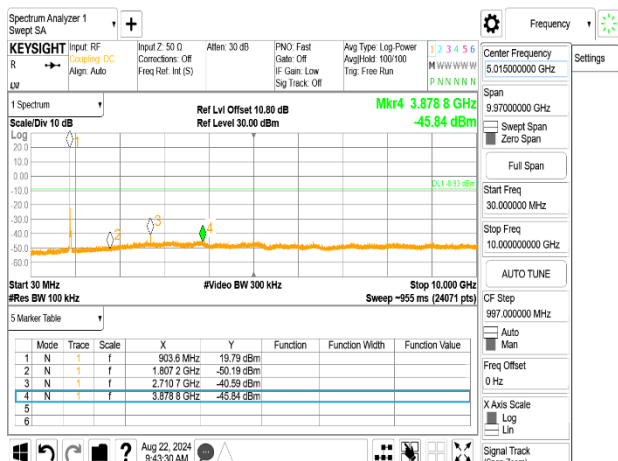
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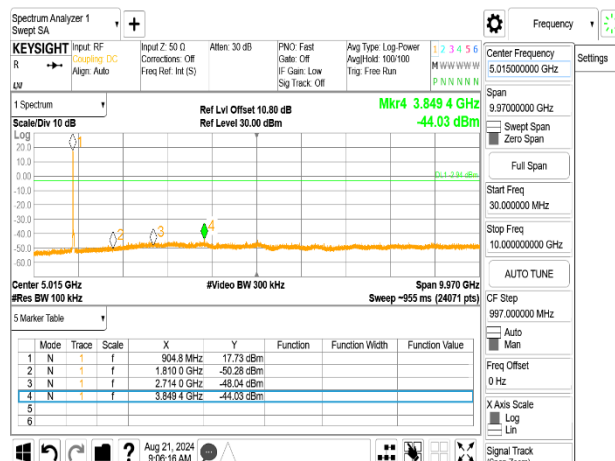
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Spurious Emission_OFDM_1M_LowCH-903.5



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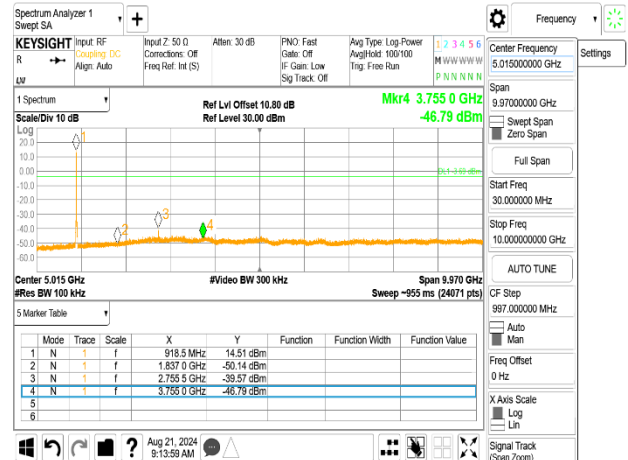
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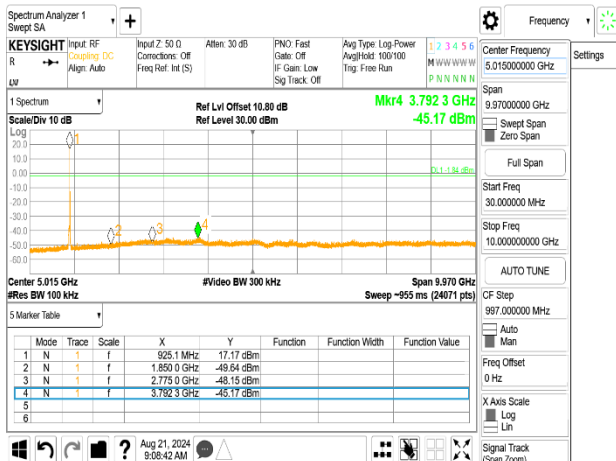
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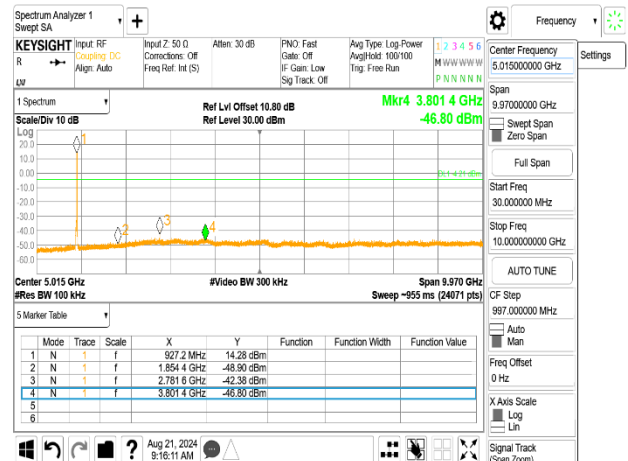
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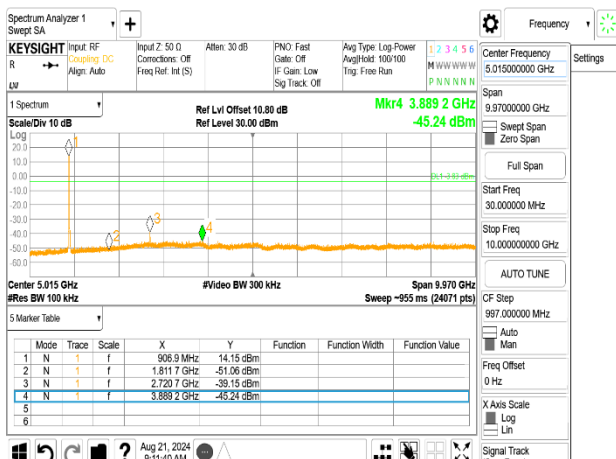
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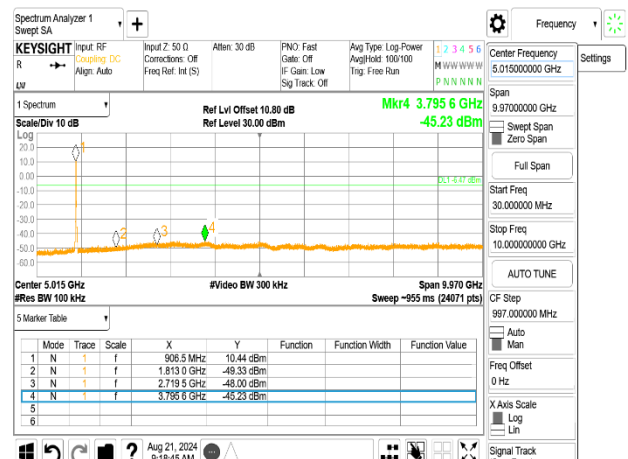
Spurious Emission_OFDM_4M_HighCH-926



Spurious Emission_OFDM_4M_LowCH-906



Spurious Emission_OFDM_8M_LowCH-908

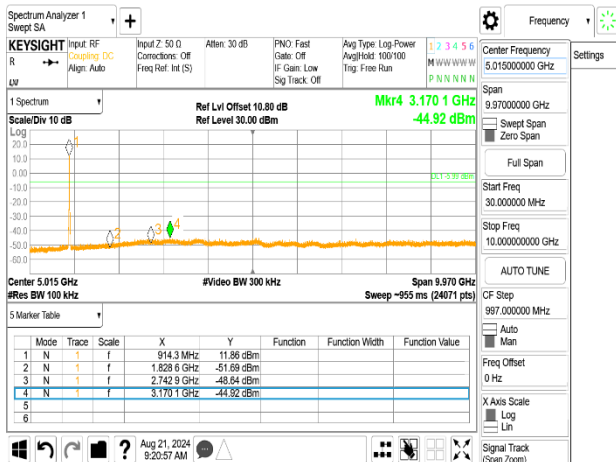


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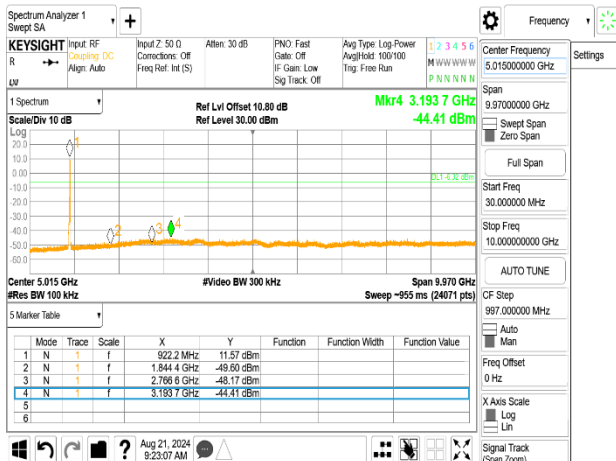
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Spurious Emission_OFDM_8M_MidCH-916



Spurious Emission_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 limit as below.

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

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

Note:

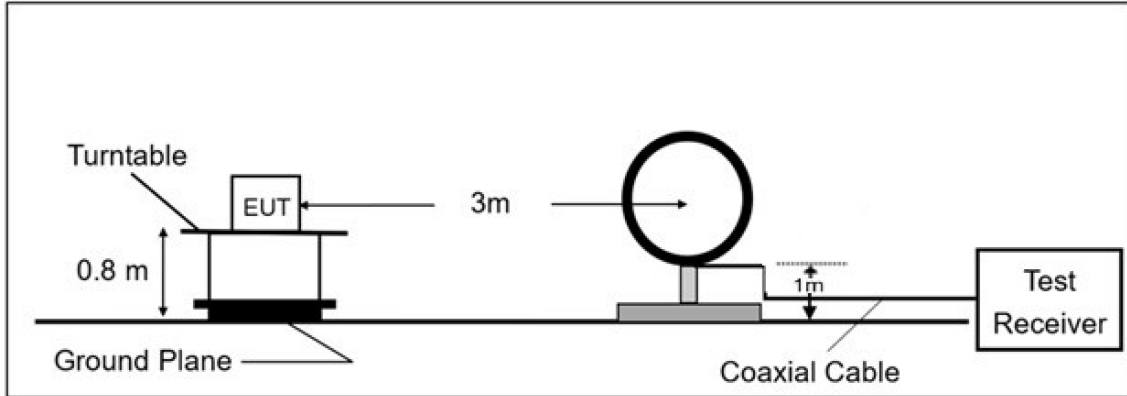
1. The lower limit shall apply at the transition frequencies.

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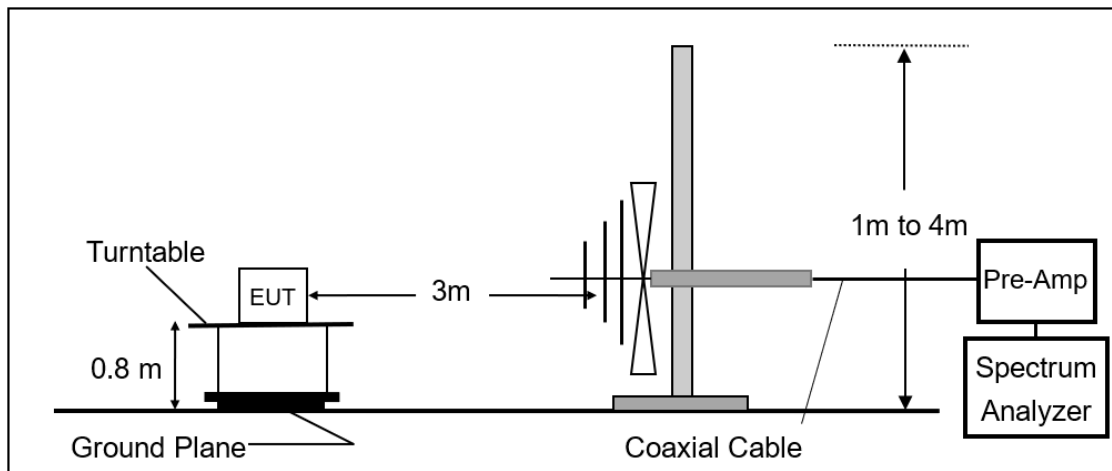
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11.2 Test Setup

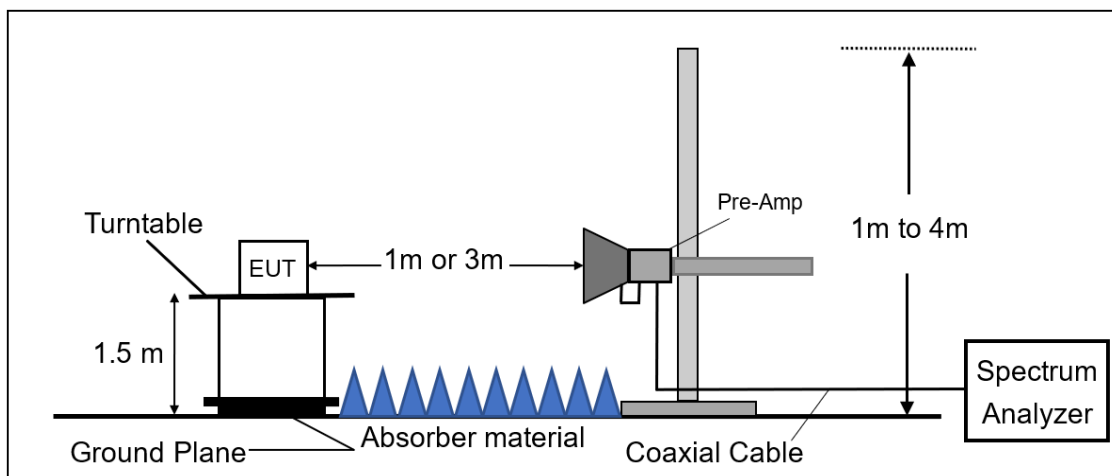
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

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

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

Actual FS(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) 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

Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :903.5 MHz

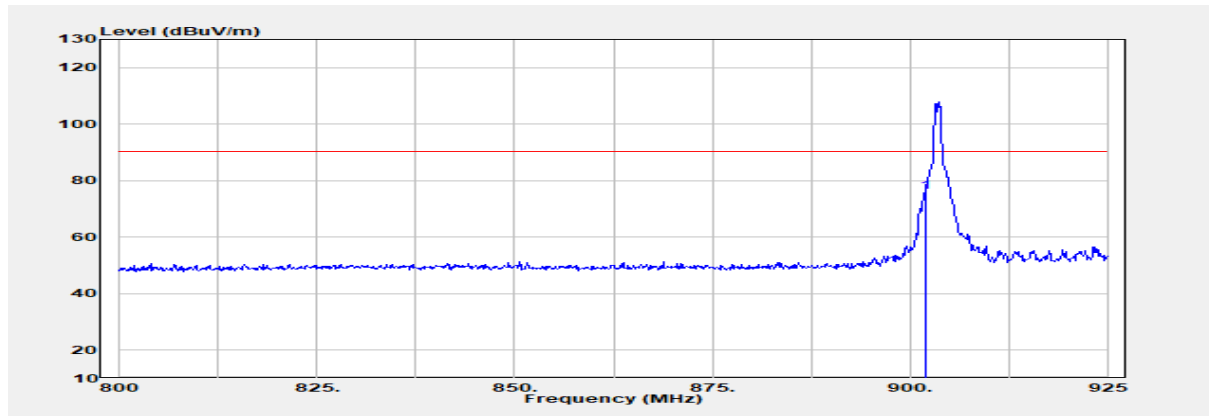
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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
902.000	Peak	81.50	-5.34	76.17	90.42	-14.25

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :903.5 MHz

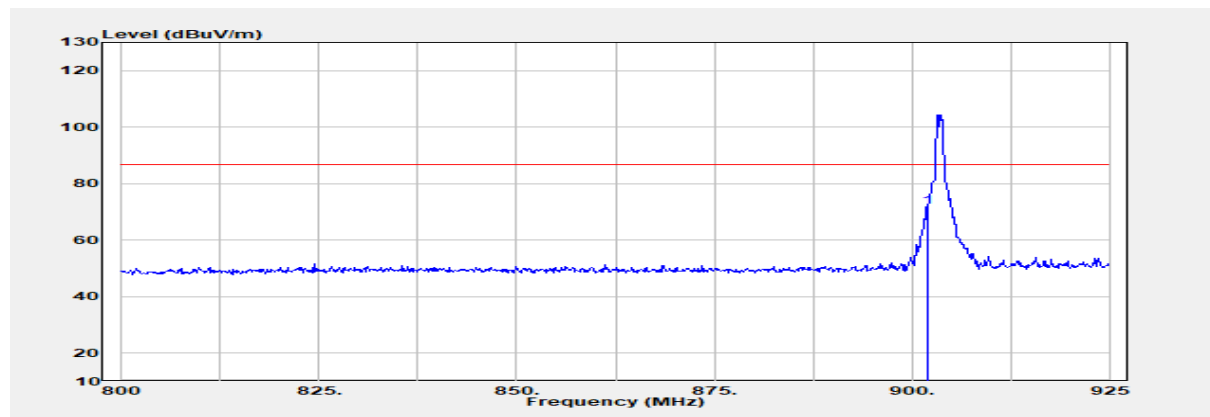
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	77.27	-5.34	71.93	86.62	-14.69

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :926.5 MHz

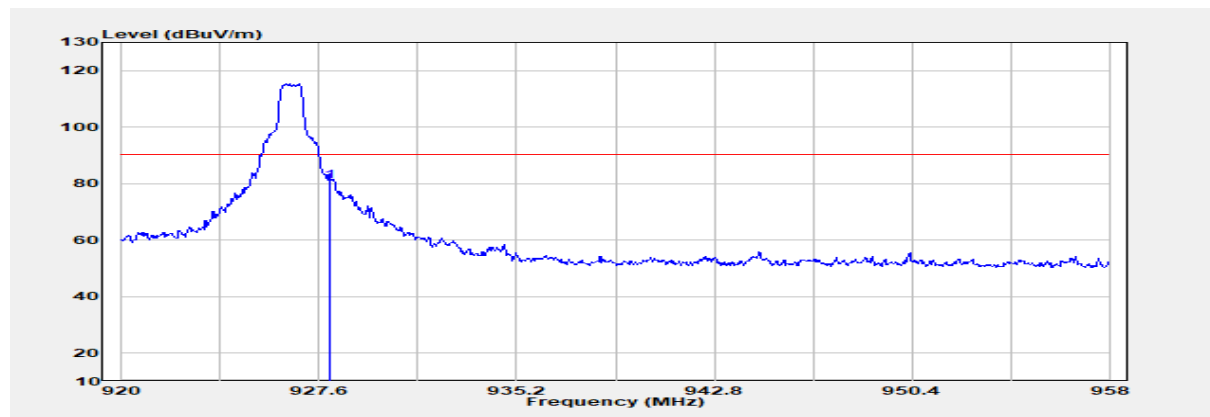
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	85.20	-4.24	80.96	90.42	-9.46

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :926.5 MHz

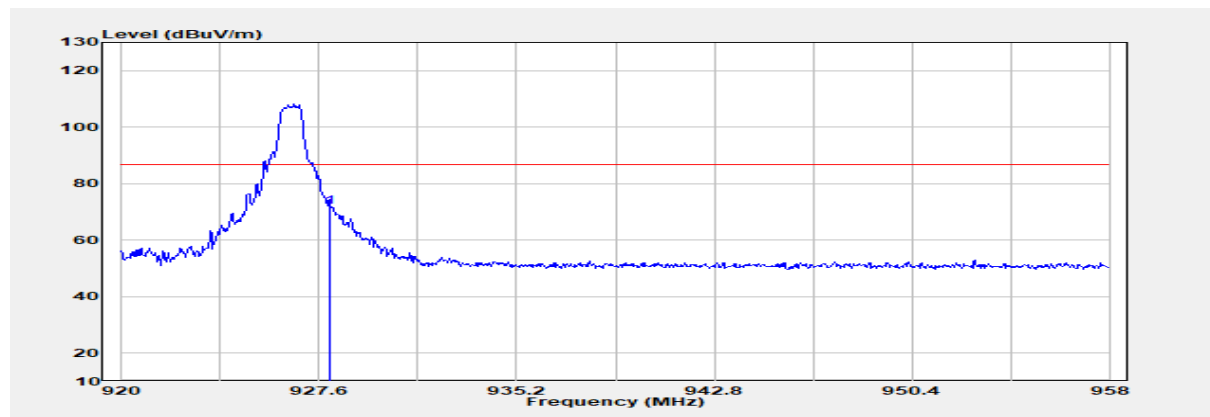
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	75.94	-4.24	71.70	86.62	-14.92

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :905 MHz

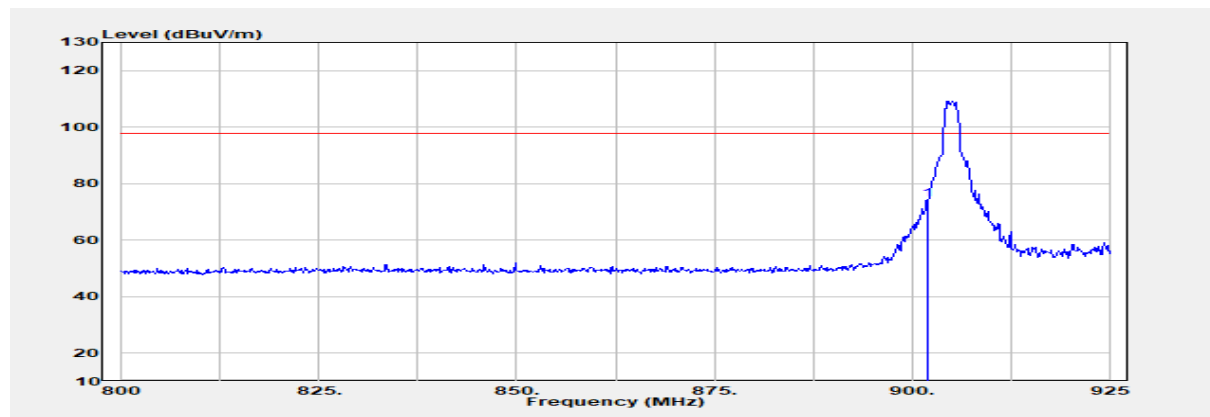
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	79.84	-5.34	74.50	97.70	-23.20

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :905 MHz

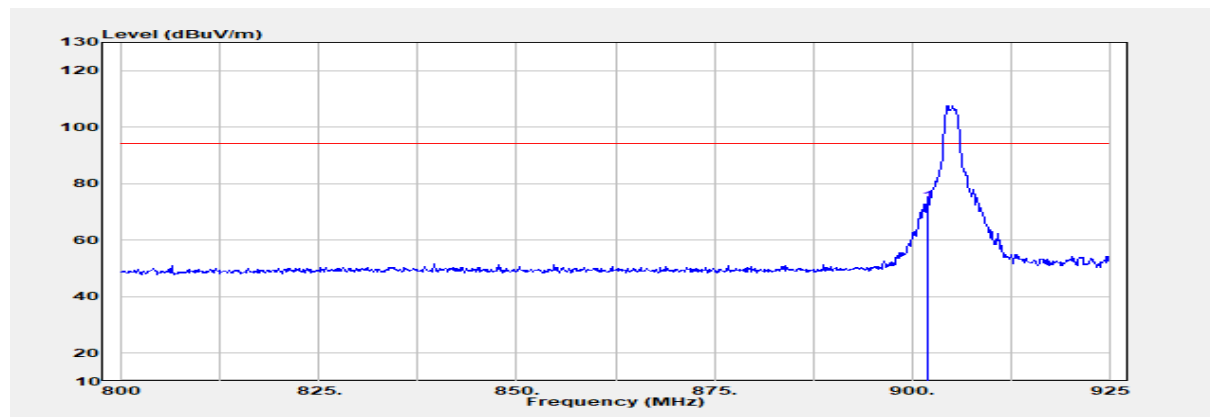
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	78.70	-5.34	73.36	94.35	-20.99

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :925 MHz

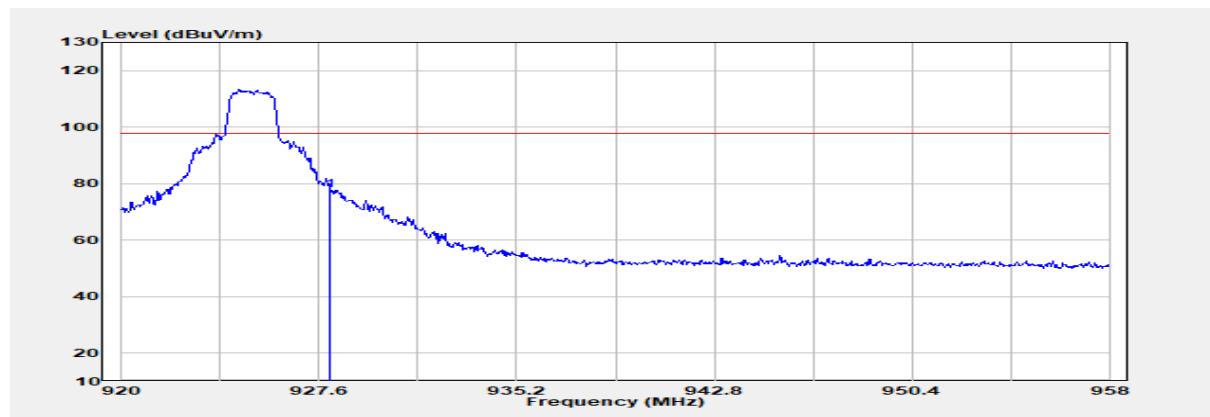
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	81.72	-4.24	77.48	97.70	-20.22

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :925 MHz

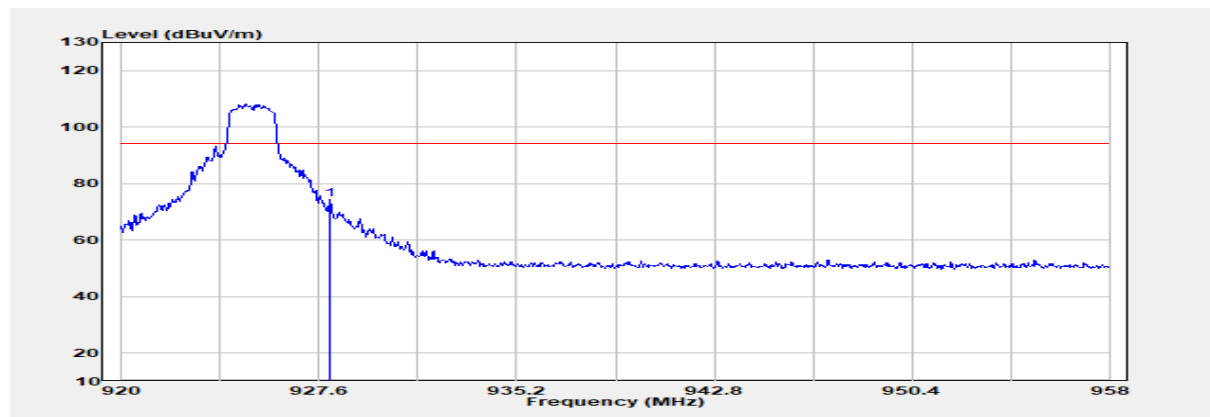
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	78.48	-4.24	74.24	94.35	-20.11

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :906 MHz

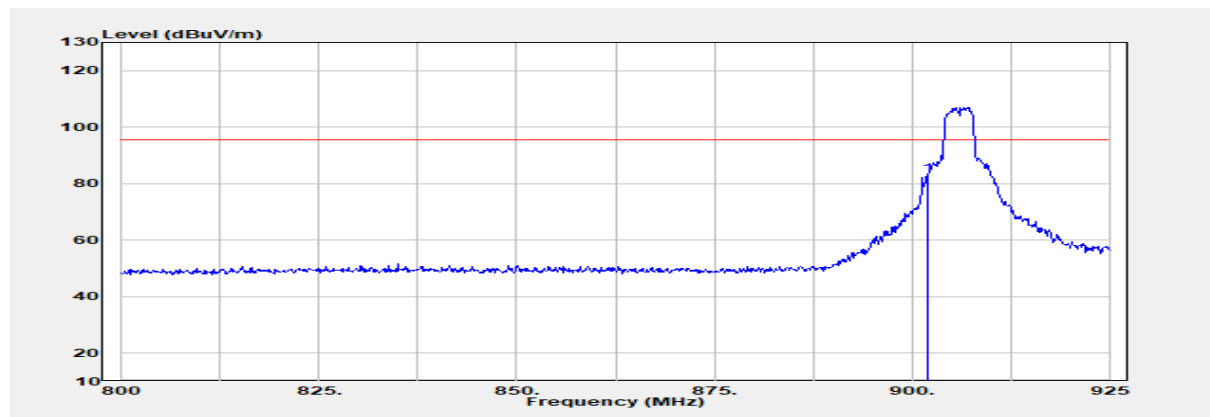
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	88.52	-5.34	83.18	95.60	-12.42

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :906 MHz

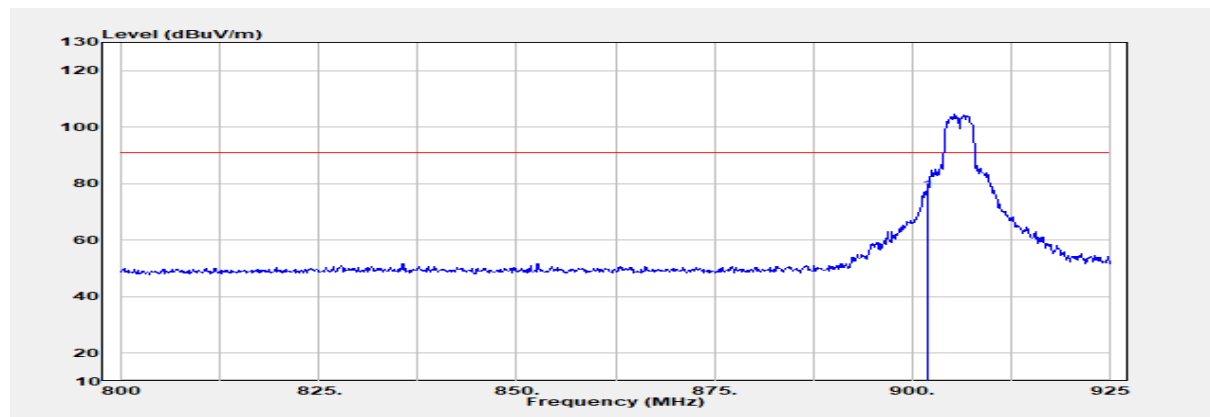
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	82.70	-5.34	77.36	90.96	-13.60

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :926 MHz

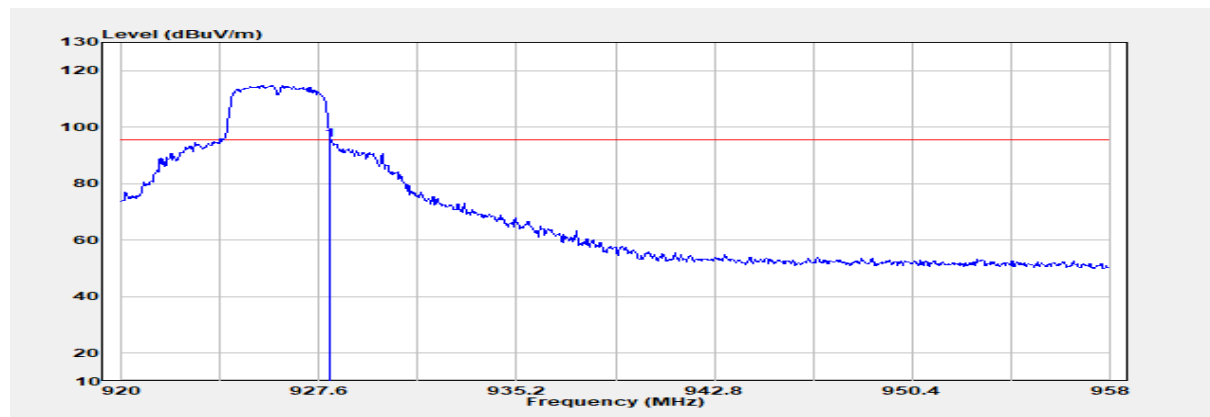
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
928.000	Peak	100.24	-4.86	95.38	95.60	-0.22

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :926 MHz

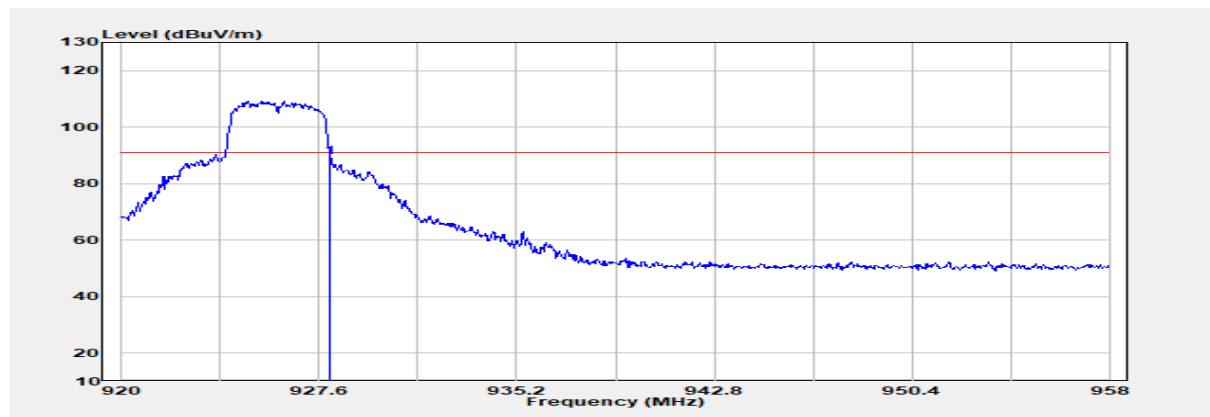
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	94.29	-4.84	89.46	90.96	-1.50

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :908 MHz

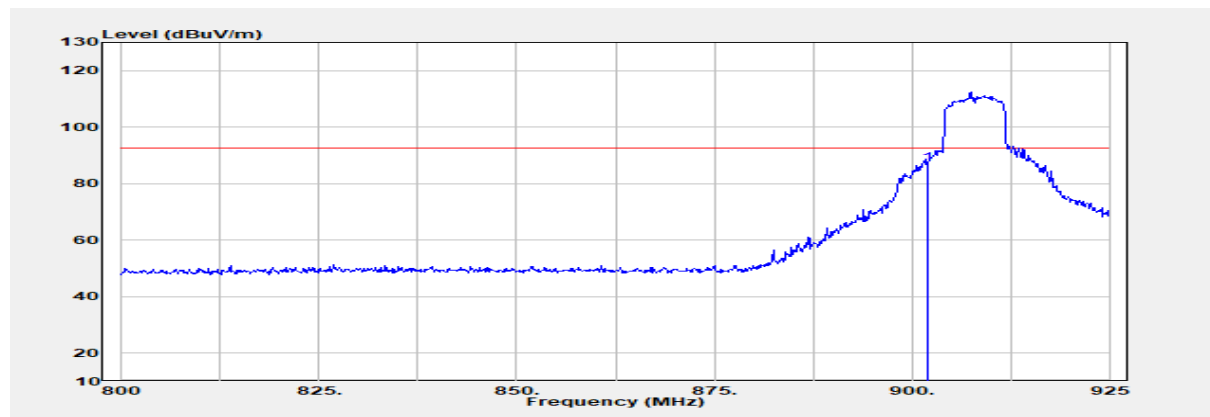
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	92.31	-5.34	86.97	92.60	-5.63

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :908 MHz

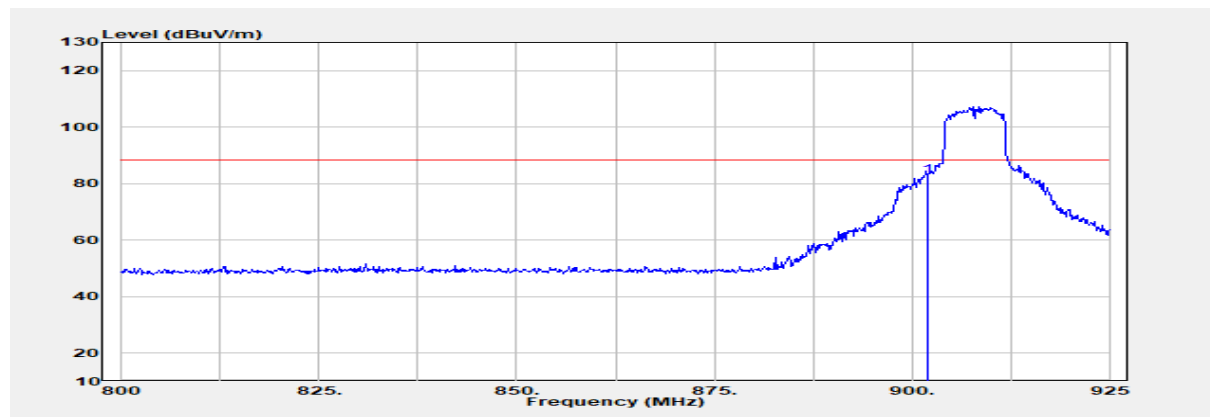
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	88.22	-5.34	82.89	88.22	-5.33

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :924 MHz

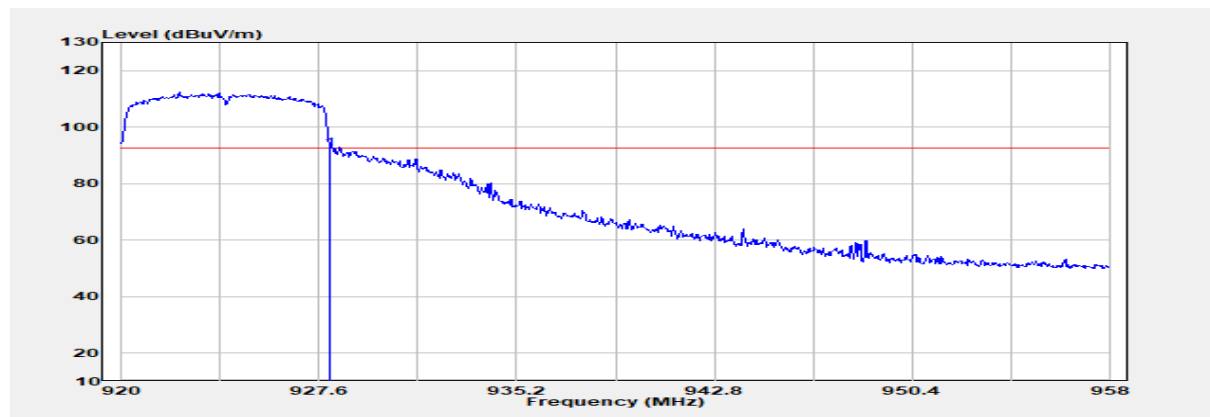
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	97.20	-4.86	92.35	92.60	-0.25

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :924 MHz

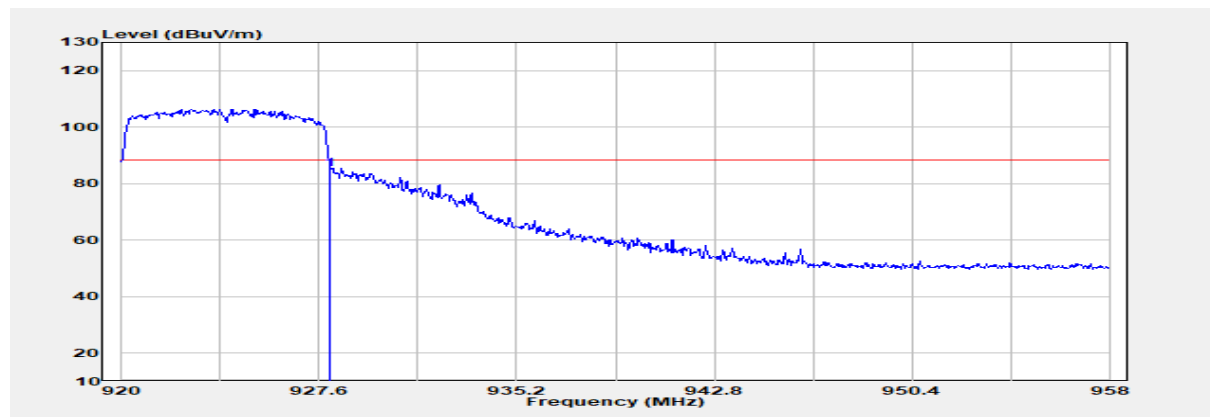
Temp./Humi. :19.5°C/67%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	89.93	-4.84	85.09	88.22	-3.13

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11.6.2 Radiated Spurious Emission

Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :915.5 MHz

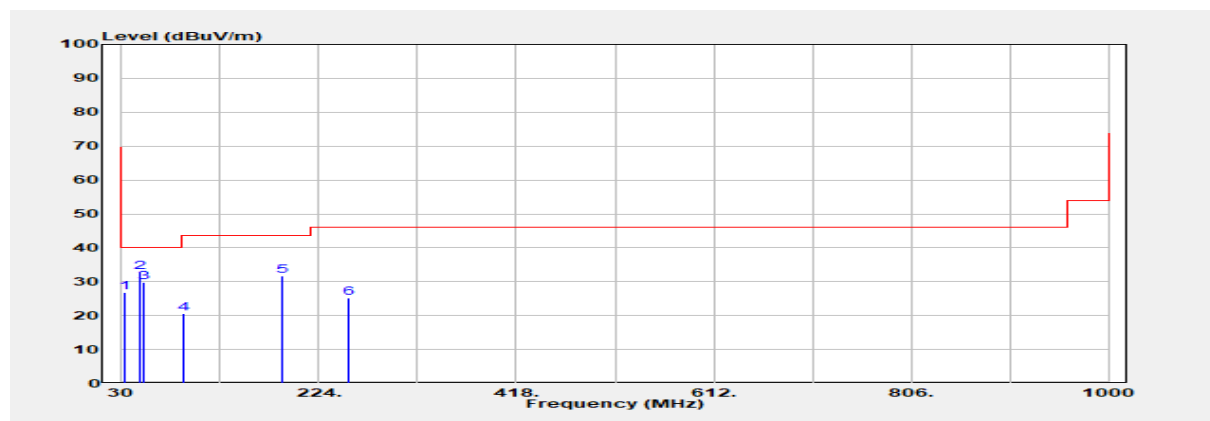
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	45.24	-18.50	26.74	40.00	-13.26
47.460	Peak	49.62	-16.83	32.79	40.00	-7.21
52.310	Peak	46.69	-16.75	29.94	40.00	-10.06
91.110	Peak	43.52	-22.80	20.73	43.50	-22.77
187.140	Peak	50.65	-18.92	31.73	43.50	-11.77
253.100	Peak	42.38	-17.12	25.26	46.00	-20.74

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :915.5 MHz

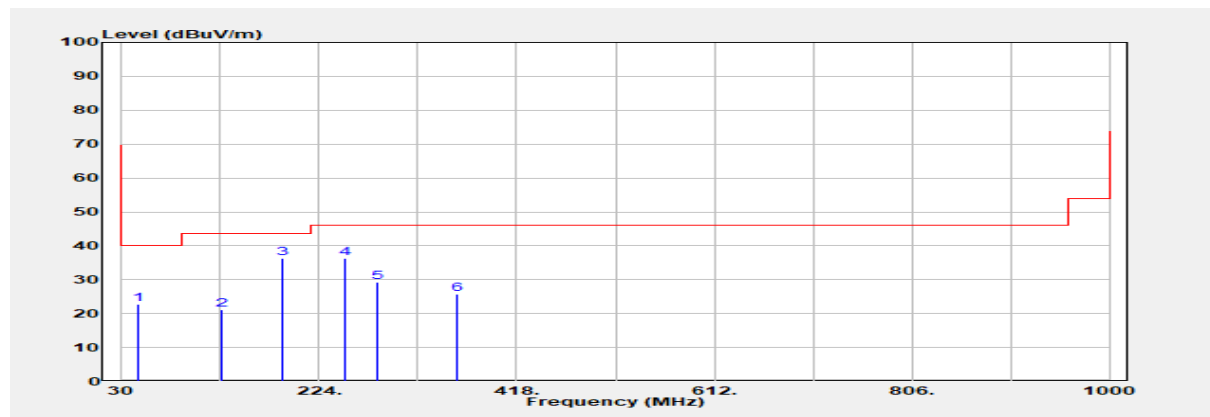
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
46.490	Peak	39.56	-16.79	22.77	40.00	-17.23
127.970	Peak	39.24	-18.00	21.24	43.50	-22.26
187.140	Peak	55.25	-18.92	36.33	43.50	-7.17
250.190	Peak	53.51	-17.21	36.30	46.00	-9.70
280.260	Peak	45.48	-16.16	29.32	46.00	-16.68
359.800	Peak	39.92	-14.22	25.70	46.00	-20.30

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :915 MHz

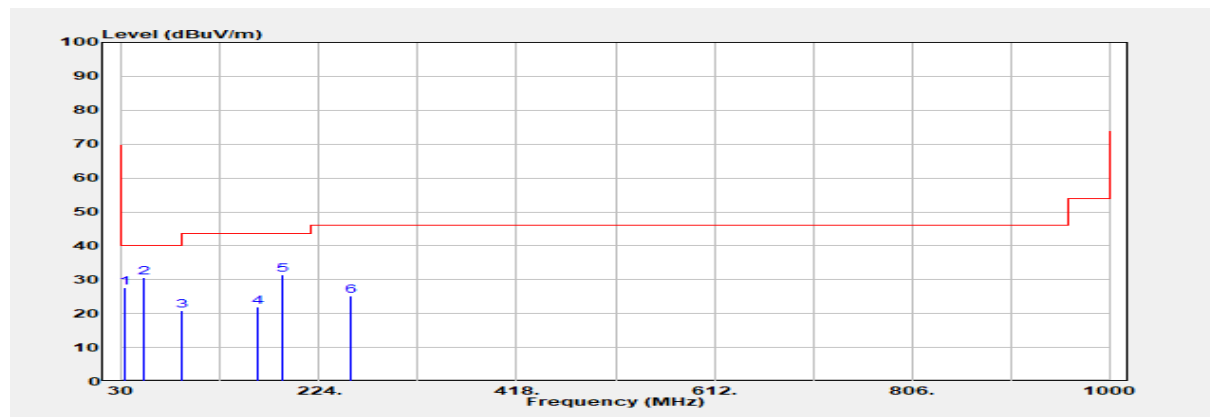
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	46.05	-18.50	27.55	40.00	-12.45
52.310	Peak	47.48	-16.75	30.73	40.00	-9.27
88.200	Peak	43.55	-22.72	20.83	43.50	-22.67
162.890	Peak	38.37	-16.43	21.95	43.50	-21.55
187.140	Peak	50.27	-18.92	31.35	43.50	-12.15
254.070	Peak	42.41	-17.09	25.31	46.00	-20.69

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :915 MHz

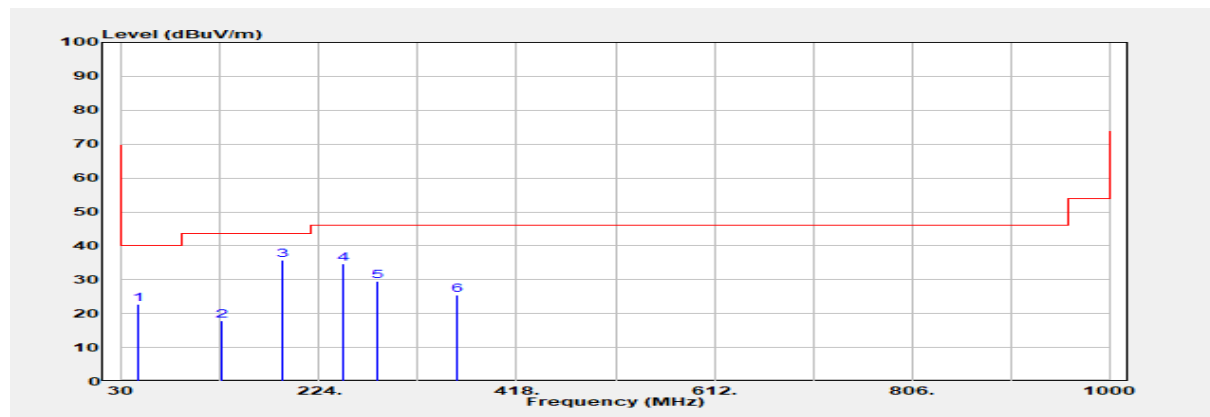
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
46.490	Peak	39.55	-16.79	22.75	40.00	-17.25
128.940	Peak	35.58	-17.80	17.78	43.50	-25.72
187.140	Peak	54.73	-18.92	35.80	43.50	-7.70
248.250	Peak	52.12	-17.32	34.80	46.00	-11.20
280.260	Peak	45.77	-16.16	29.61	46.00	-16.39
359.800	Peak	39.63	-14.22	25.41	46.00	-20.59

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :918 MHz

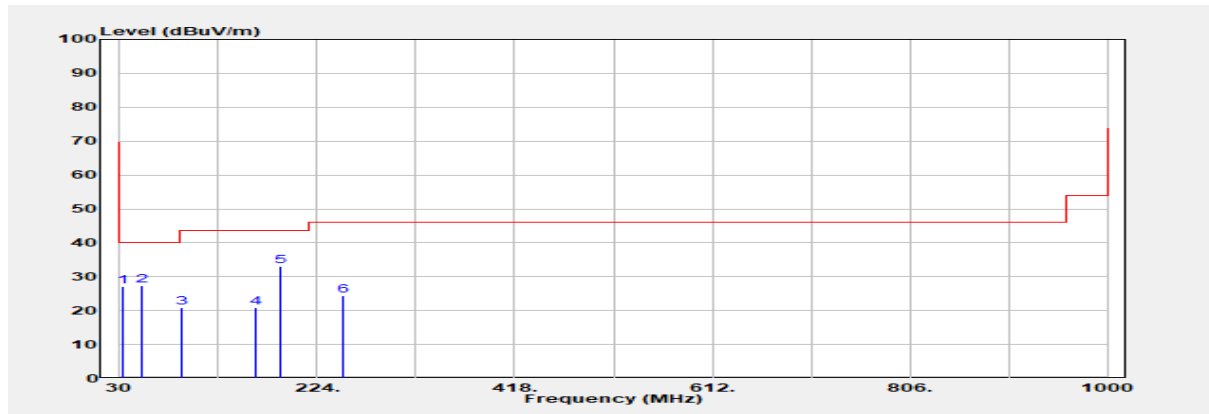
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	45.67	-18.50	27.16	40.00	-12.84
52.310	Peak	44.06	-16.75	27.31	40.00	-12.69
91.110	Peak	43.71	-22.80	20.92	43.50	-22.58
162.890	Peak	37.24	-16.43	20.81	43.50	-22.69
187.140	Peak	51.95	-18.92	33.03	43.50	-10.47
250.190	Peak	41.57	-17.21	24.35	46.00	-21.65

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :918 MHz

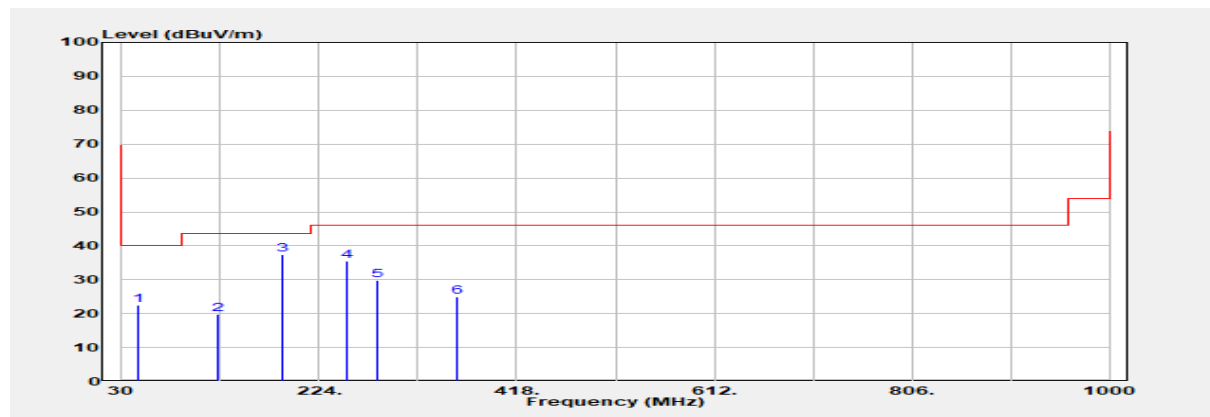
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
46.490	Peak	39.41	-16.79	22.62	40.00	-17.38
124.090	Peak	38.54	-18.87	19.67	43.50	-23.83
187.140	Peak	56.23	-18.92	37.30	43.50	-6.20
251.160	Peak	52.75	-17.18	35.57	46.00	-10.43
280.260	Peak	45.97	-16.16	29.82	46.00	-16.18
359.800	Peak	39.15	-14.22	24.93	46.00	-21.07

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :916 MHz

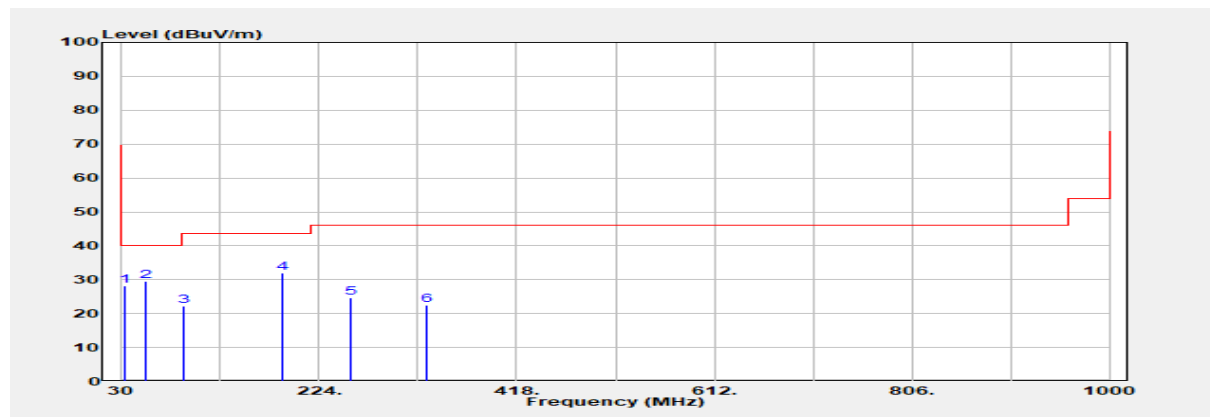
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
33.880	Peak	46.70	-18.50	28.20	40.00	-11.80
53.280	Peak	46.33	-16.71	29.62	40.00	-10.38
91.110	Peak	44.89	-22.80	22.09	43.50	-21.41
187.140	Peak	50.90	-18.92	31.98	43.50	-11.52
254.070	Peak	41.84	-17.09	24.75	46.00	-21.25
328.760	Peak	37.41	-14.82	22.59	46.00	-23.41

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :916 MHz

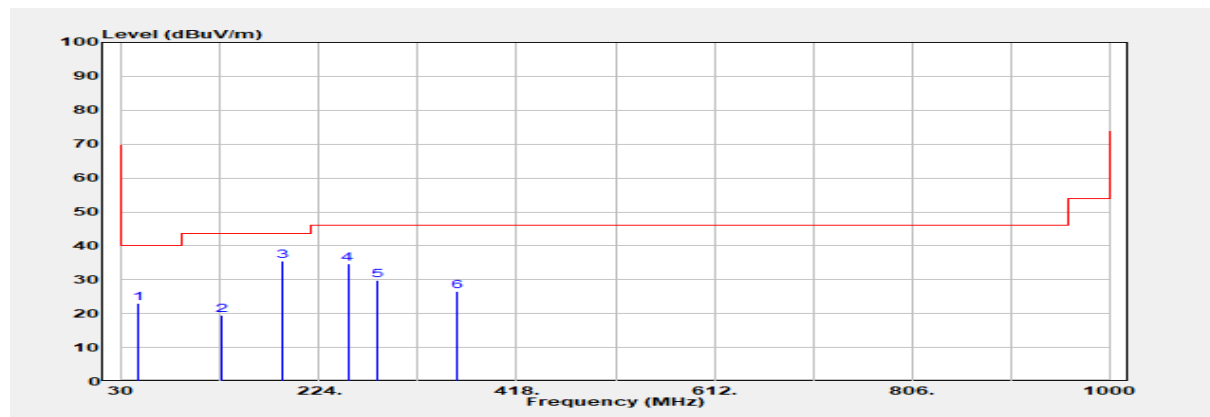
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
46.490	Peak	39.83	-16.79	23.04	40.00	-16.96
128.940	Peak	37.40	-17.80	19.60	43.50	-23.90
187.140	Peak	54.55	-18.92	35.63	43.50	-7.87
252.130	Peak	51.98	-17.15	34.82	46.00	-11.18
280.260	Peak	45.84	-16.16	29.68	46.00	-16.32
359.800	Peak	40.73	-14.22	26.51	46.00	-19.49

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :903.5 MHz

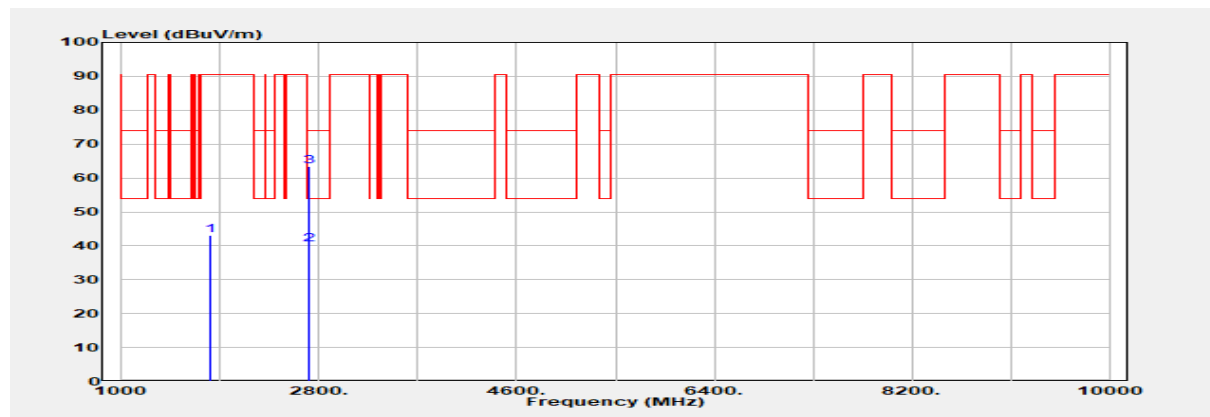
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1807.000	Peak	50.87	-7.79	43.08	90.42	-47.34
2710.500	Average	44.32	-3.82	40.51	54.00	-13.49
2710.500	Peak	67.17	-3.82	63.35	74.00	-10.65

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :903.5 MHz

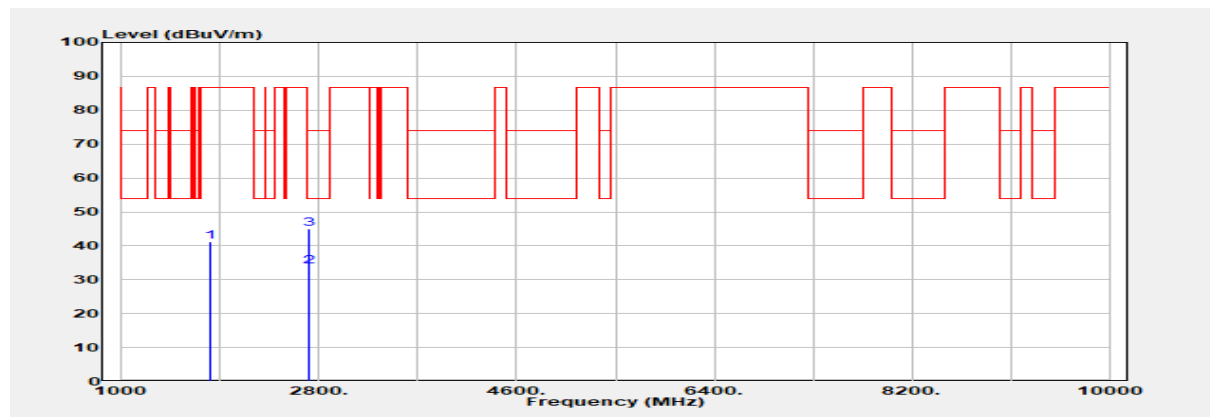
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	48.96	-7.79	41.17	86.62	-45.45
2710.500	Average	37.67	-3.82	33.85	54.00	-20.15
2710.500	Peak	48.83	-3.82	45.01	74.00	-28.99

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :915.5 MHz

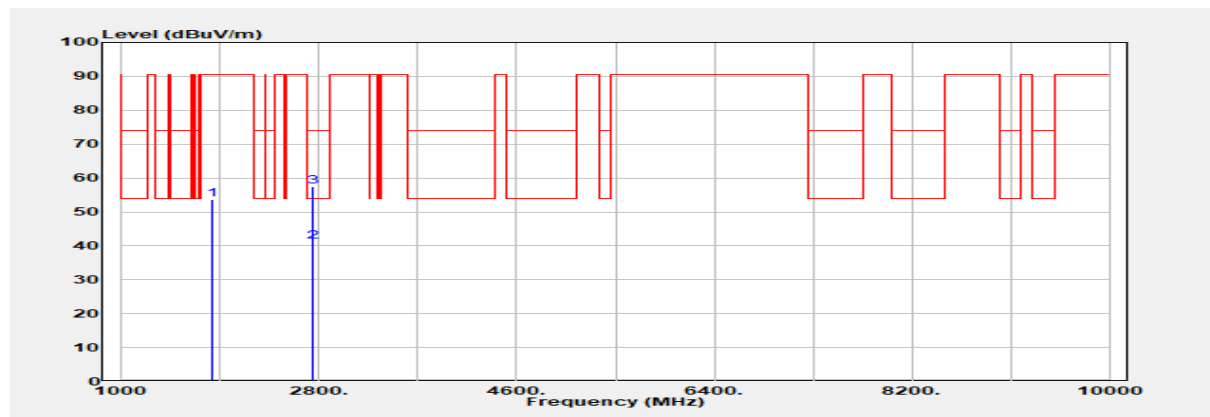
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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
1831.000	Peak	61.49	-7.71	53.79	90.42	-36.63
2746.500	Average	45.22	-4.09	41.13	54.00	-12.87
2746.500	Peak	61.48	-4.09	57.39	74.00	-16.61

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :915.5 MHz

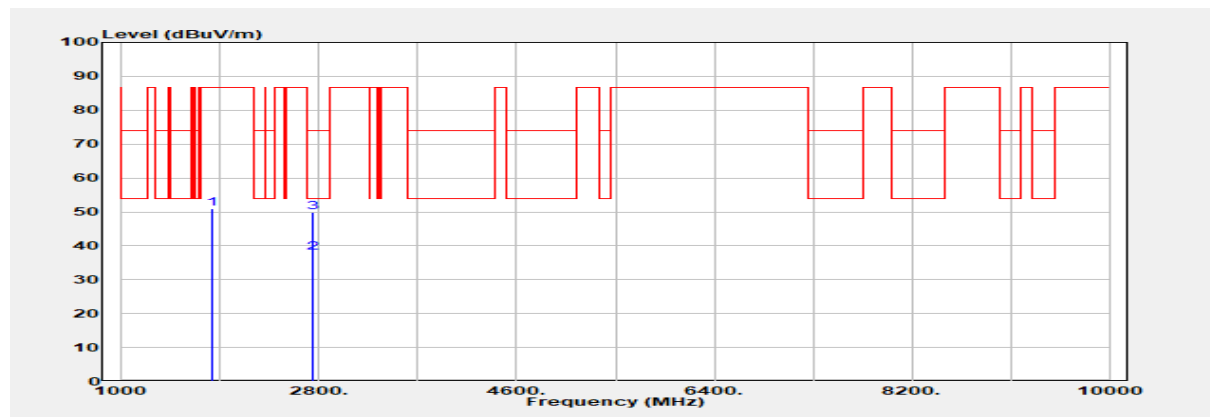
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1831.000	Peak	58.76	-7.71	51.05	86.62	-35.57
2746.500	Average	41.97	-4.09	37.88	54.00	-16.12
2746.500	Peak	53.88	-4.09	49.80	74.00	-24.20

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :926.5 MHz

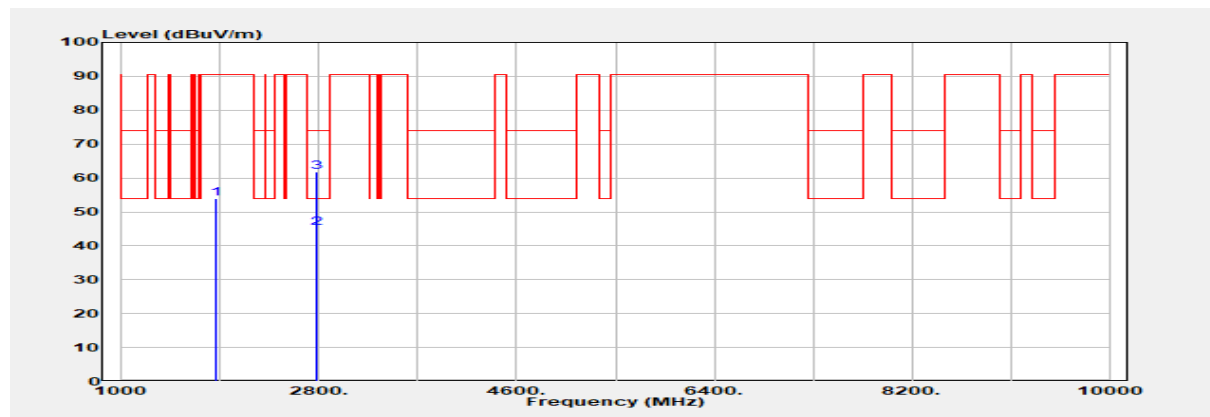
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	61.62	-7.64	53.98	90.42	-36.44
2779.500	Average	49.26	-4.06	45.19	54.00	-8.81
2779.500	Peak	65.92	-4.06	61.86	74.00	-12.14

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-08-22

Test Frequency :926.5 MHz

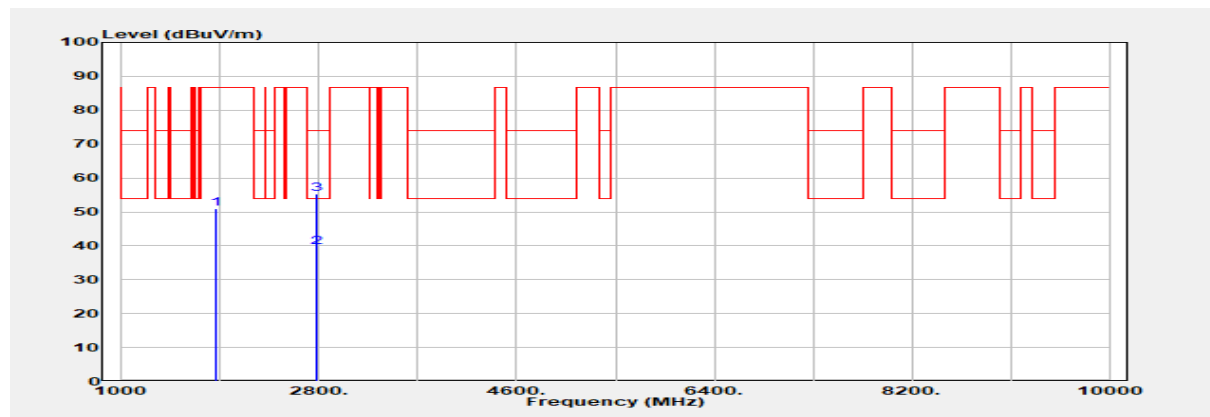
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	58.62	-7.64	50.98	86.62	-35.64
2779.500	Average	43.53	-4.06	39.46	54.00	-14.54
2779.500	Peak	59.44	-4.06	55.38	74.00	-18.62

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台灣檢驗科技股份有限公司

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :905 MHz

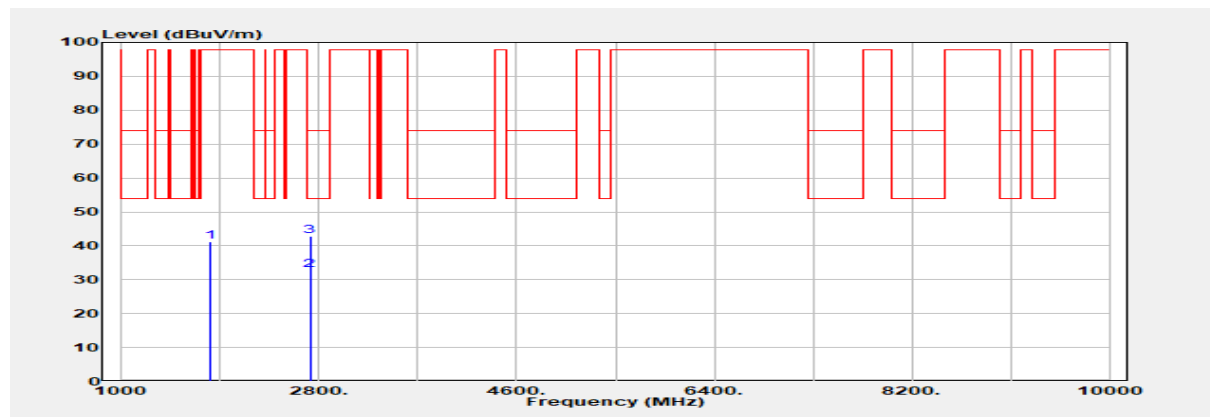
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	48.96	-7.78	41.18	97.70	-56.52
2715.000	Average	36.65	-3.85	32.79	54.00	-21.21
2715.000	Peak	46.71	-3.85	42.86	74.00	-31.14

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :905 MHz

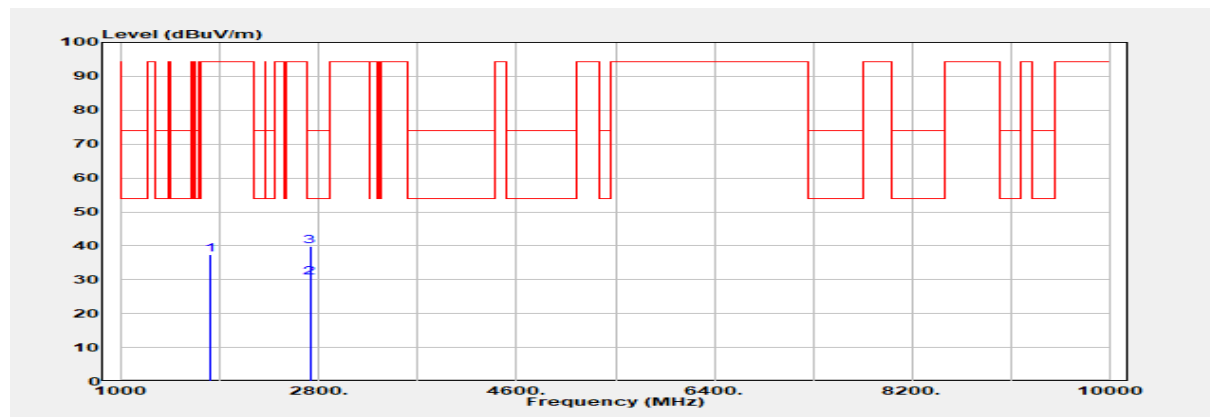
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	45.16	-7.78	37.38	94.35	-56.97
2715.000	Average	34.41	-3.85	30.56	54.00	-23.44
2715.000	Peak	43.79	-3.85	39.94	74.00	-34.06

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :915 MHz

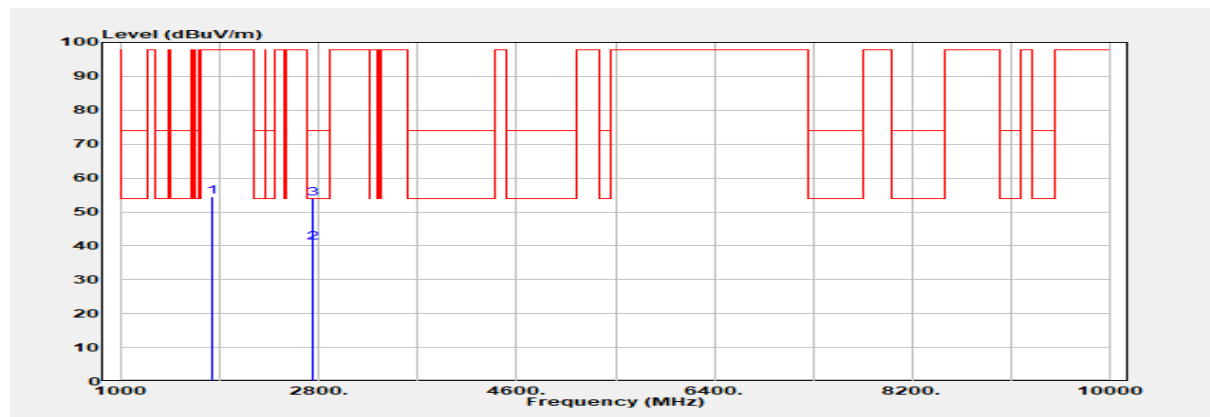
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	62.23	-7.71	54.52	97.70	-43.18
2745.000	Average	45.02	-4.08	40.94	54.00	-13.06
2745.000	Peak	57.99	-4.08	53.91	74.00	-20.09

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :915 MHz

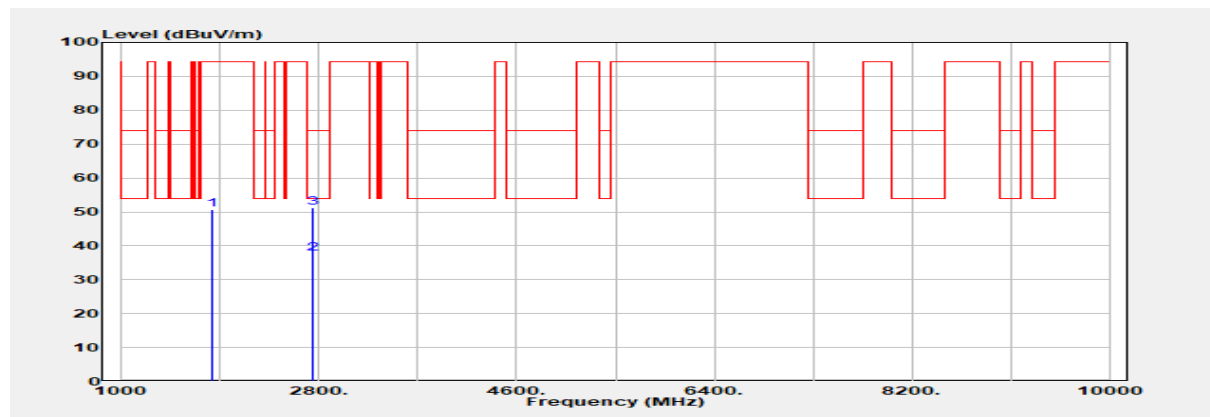
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	58.35	-7.71	50.64	94.35	-43.71
2745.000	Average	41.87	-4.08	37.79	54.00	-16.21
2745.000	Peak	55.43	-4.08	51.35	74.00	-22.65

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :925 MHz

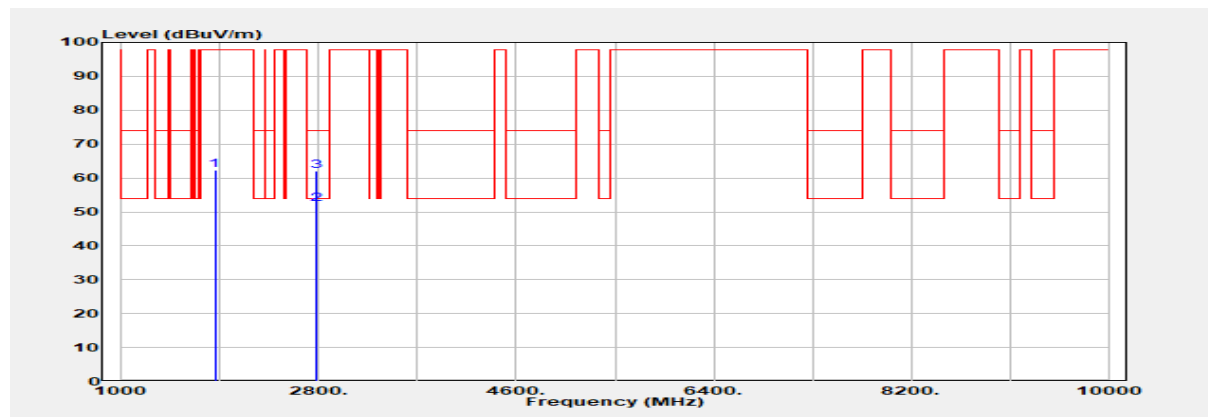
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1850.000	Peak	70.00	-7.64	62.36	97.70	-35.34
2775.000	Average	56.37	-4.07	52.29	54.00	-1.71
2775.000	Peak	66.15	-4.07	62.08	74.00	-11.92

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-08-22

Test Frequency :925 MHz

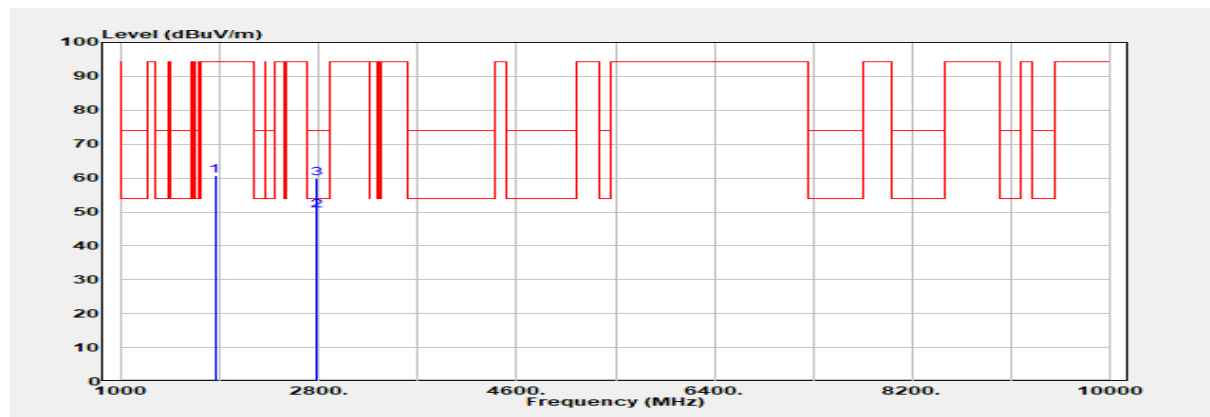
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	68.44	-7.64	60.80	94.35	-33.55
2775.000	Average	54.40	-4.07	50.33	54.00	-3.67
2775.000	Peak	64.01	-4.07	59.94	74.00	-14.06

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :906 MHz

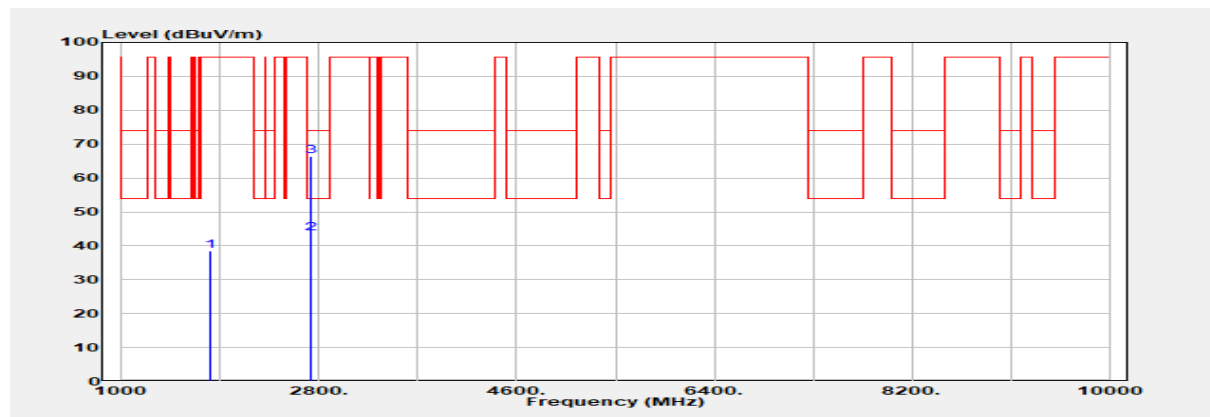
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	46.13	-7.78	38.35	95.60	-57.25
2718.000	Average	47.53	-3.87	43.66	54.00	-10.34
2718.000	Peak	70.30	-3.87	66.43	74.00	-7.57

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :906 MHz

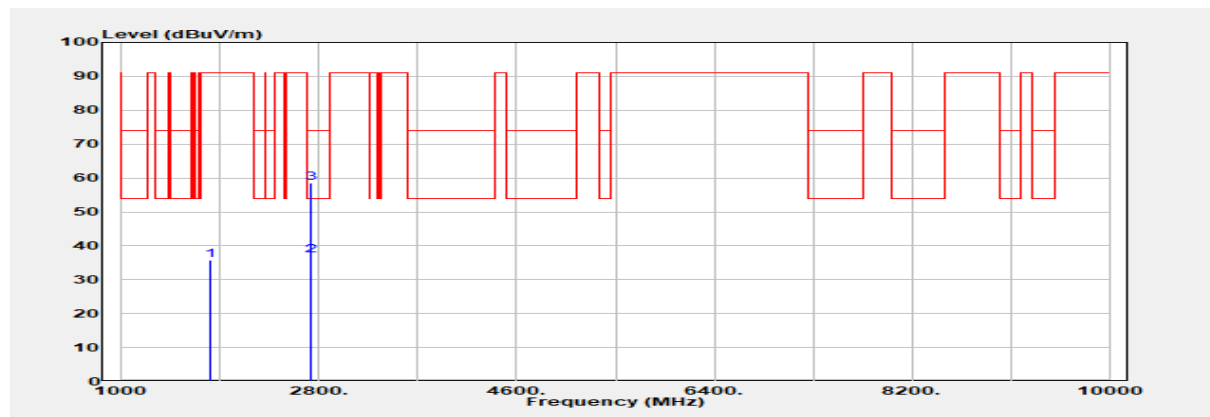
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1812.000	Peak	43.49	-7.78	35.72	90.96	-55.24
2718.000	Average	40.92	-3.87	37.05	54.00	-16.95
2718.000	Peak	62.37	-3.87	58.50	74.00	-15.50

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :918 MHz

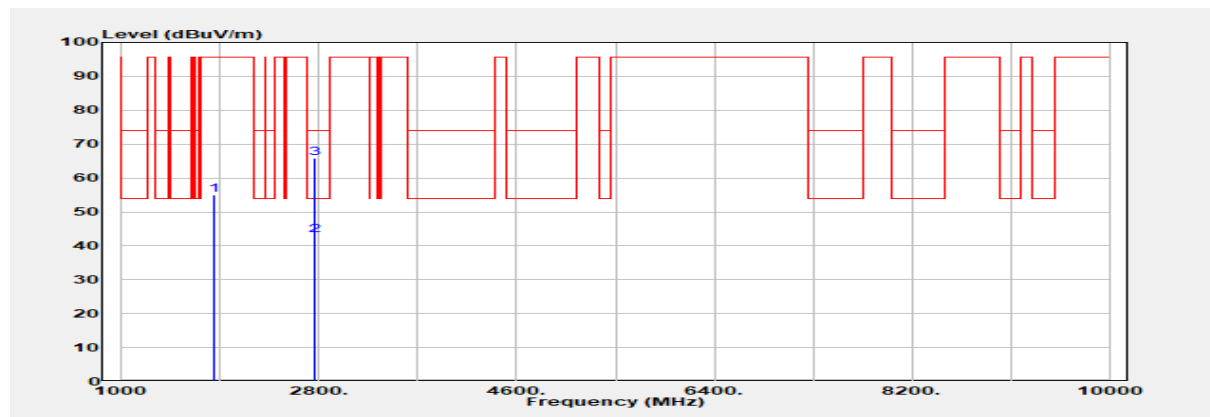
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
1836.000	Peak	62.78	-7.69	55.09	95.60	-40.51
2754.000	Average	47.30	-4.11	43.19	54.00	-10.81
2754.000	Peak	69.93	-4.11	65.83	74.00	-8.17

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :918 MHz

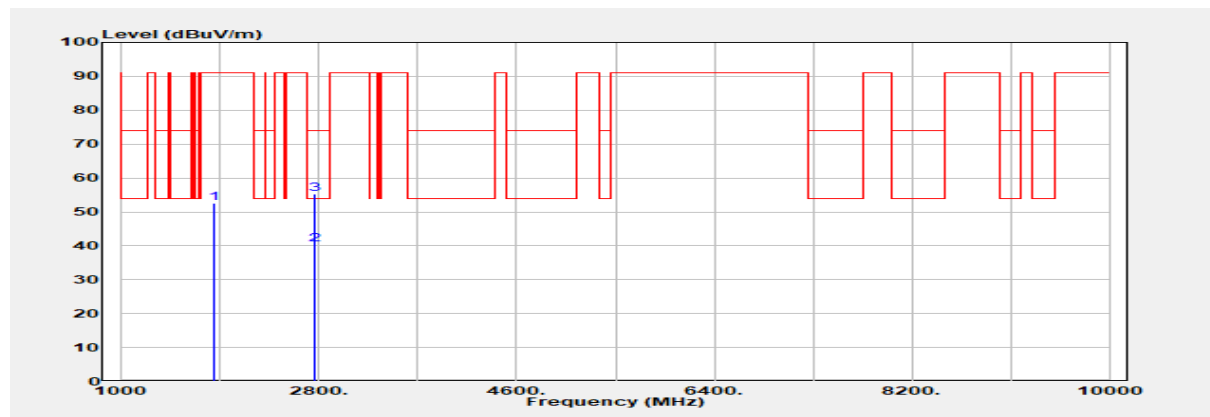
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1836.000	Peak	60.34	-7.69	52.65	90.96	-38.31
2754.000	Average	44.62	-4.11	40.51	54.00	-13.49
2754.000	Peak	59.34	-4.11	55.23	74.00	-18.77

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :926 MHz

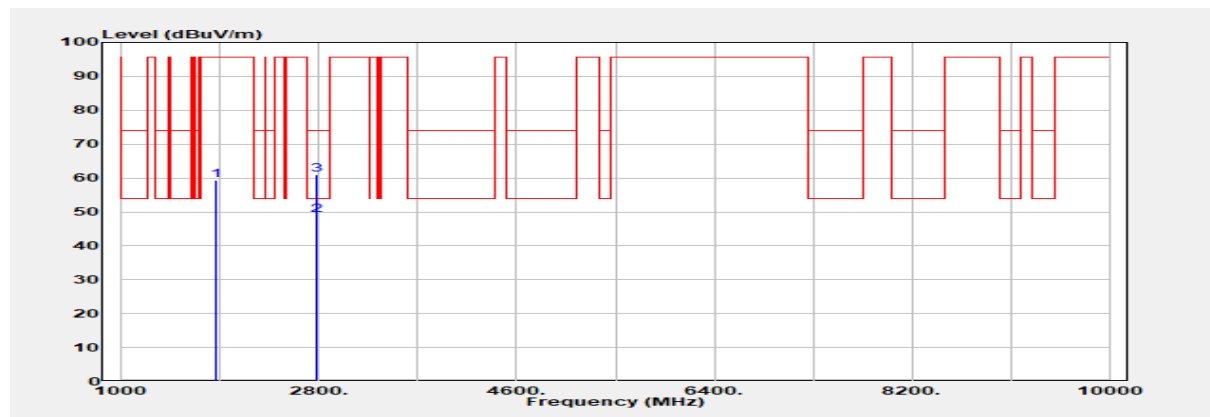
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard 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	67.09	-7.64	59.45	95.60	-36.15
2778.000	Average	53.21	-4.07	49.15	54.00	-4.85
2778.000	Peak	65.06	-4.07	60.99	74.00	-13.01

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-08-22

Test Frequency :926 MHz

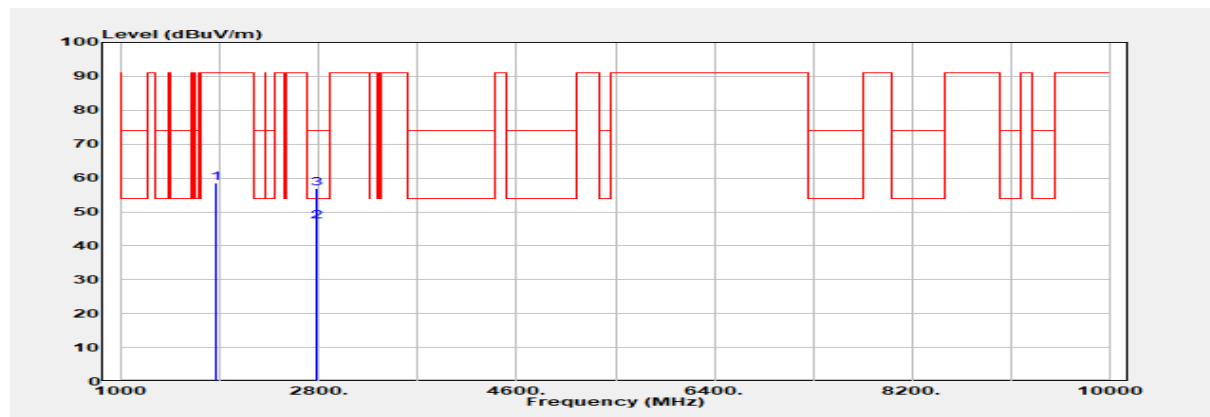
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	66.07	-7.64	58.43	90.96	-32.53
2778.000	Average	51.22	-4.07	47.15	54.00	-6.85
2778.000	Peak	60.85	-4.07	56.78	74.00	-17.22

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :908 MHz

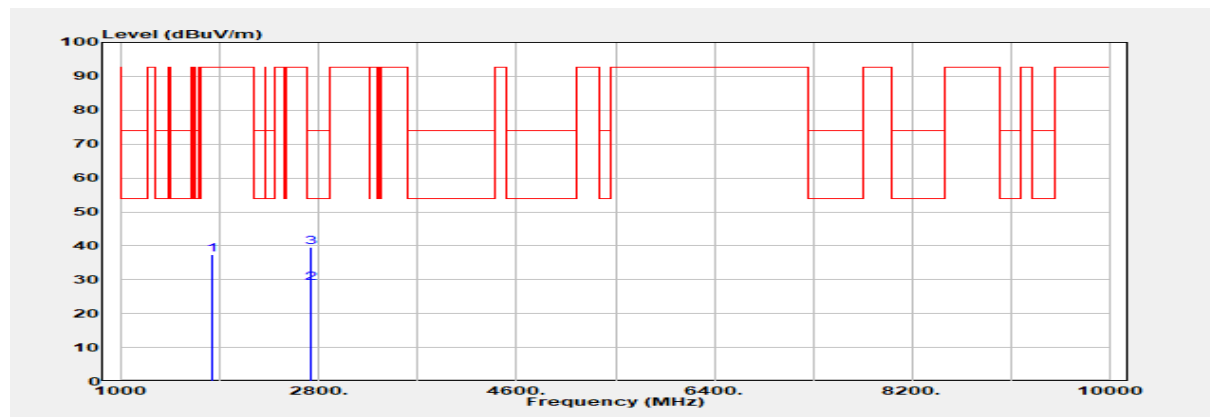
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1816.000	Peak	45.24	-7.76	37.48	92.60	-55.12
2724.000	Average	32.99	-3.92	29.07	54.00	-24.93
2724.000	Peak	43.55	-3.92	39.63	74.00	-34.37

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Report Number :TERF2408002341E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-08-22

Test Frequency :908 MHz

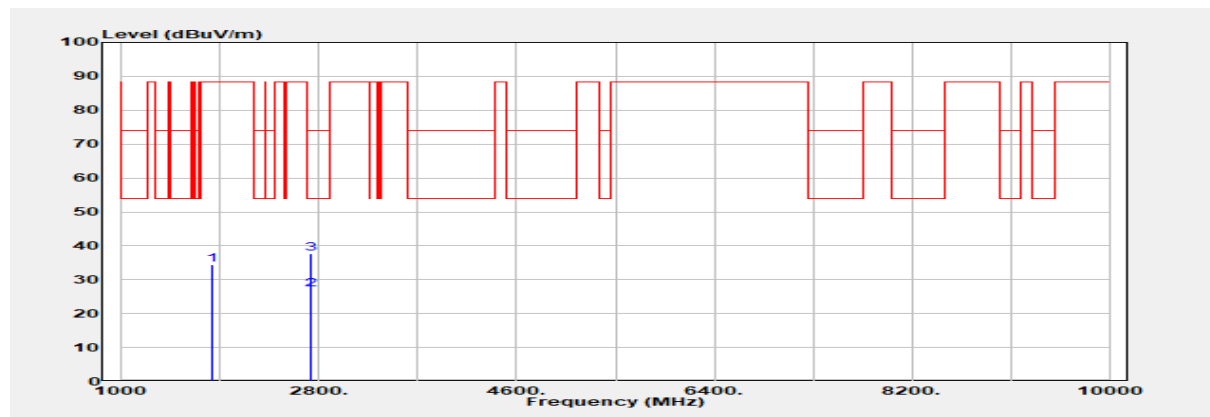
Temp./Humi. :19.5°C/67%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard 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	42.24	-7.76	34.48	88.22	-53.74
2724.000	Average	31.14	-3.92	27.22	54.00	-26.78
2724.000	Peak	41.46	-3.92	37.54	74.00	-36.46

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