

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Doorbell
Manufacturer: Immedia Semiconductor LLC
100 Riverpark Drive, Suite 125 North Reading, MA 01864,
United States of America
Product Name: Immedia Semiconductor LLC
100 Riverpark Drive, Suite 125 North Reading, MA 01864,
United States of America
Brand Name: blink
Model No. / ISED HVIN: BDM00300U
ISED HVIN: BDM00300U
Report Number: TERF2504001511E2
FCC ID 2AF77-H2441840
IC: 20741-H2441840
Date of EUT Received: March 6, 2025
Date of Test: January 15, 2025 ~ April 24, 2025
Issue Date: April 24, 2025

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, 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
TERF2504001511E2	00	Original	April 24, 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

EUT Description	Doorbell
Brand Name:	blink
Model No. / ISED HVIN:	BDM00300U
Hardware Version:	DVT2
Firmware Version:	N/A
EUT Series No.:	GLC3QW01503400U1
Power Supply:	4.5Vdc from Battery
Test Software (Name/Version)	Tera Trem V4.106

1.2 RF Specification

Radio Technology:	802.11ah
Frequency Range:	902– 928MHz
Channel number:	OFDM 1M: 8 channels OFDM 2M: 4 channels
Modulation type:	OFDM 1M+2M
Transmit Power:	OFDM 1M : 19.62 dBm (Peak) OFDM 2M : 19.33 dBm (Peak)
Antenna Designation:	PIFA Antenna, Peak Gain: 0.21dBi

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 3 Aug. 2023

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

1.4 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.				

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted 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

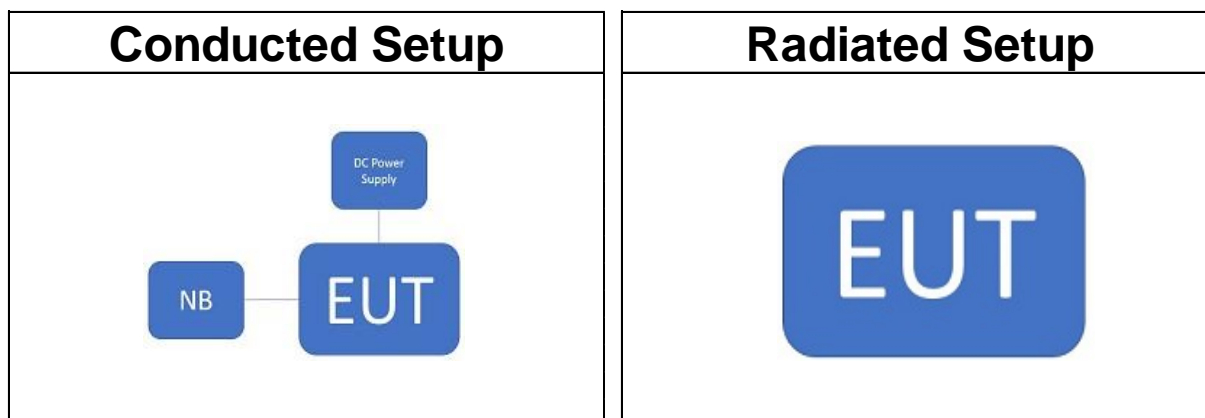
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	N/A	N/A	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	N/A	N/A	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	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	Non applicable
§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

902~928 MHz			
OFDM 1M		OFDM 2M	
CH	Freq. (MHz)	CH	Freq. (MHz)
1	919.5	1	919
2	920.5	2	921
3	921.5	3	923
4	922.5	4	925
5	923.5		
6	924.5		
7	925.5		
8	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 CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
OFDM 1M	902 to 928	919.5, 923.5, 926.5	OFDM	MCS0
OFDM 2M	902 to 928	919, 923, 925	OFDM	MCS0

TRANSMIT RADIATED EMISSION TEST			
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)	MODULATION
OFDM1M	919.5 to 926.5	919.5, 923.5, 926.5	-
OFDM2M	919 to 925	919, 923, 925	-

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 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
DC Power Supply	Agilent	E3640A	MY53170008	08/29/2024	08/28/2025
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025
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

6.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/17/2024	12/16/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300	W22.01+W21.01+15 0707+MY969/4+16+1 90825+150702	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated 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

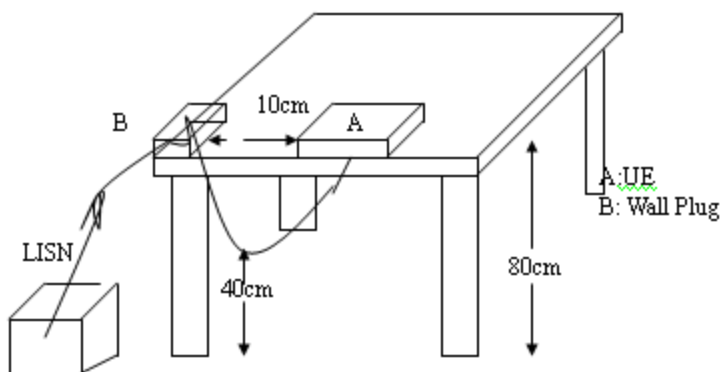
Note

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



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 AAA 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.

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.

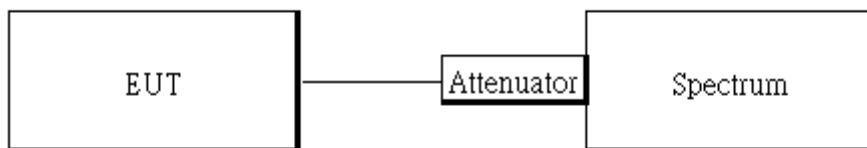
8.1.2 ISED

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.

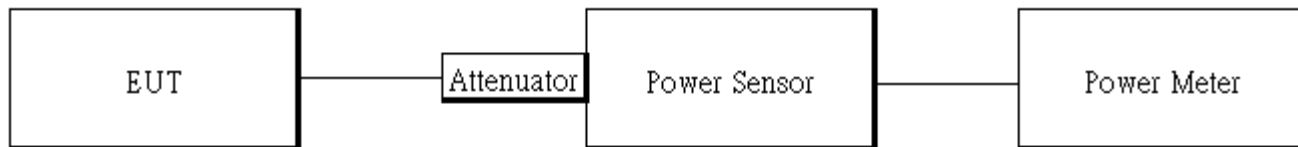
Note: When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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

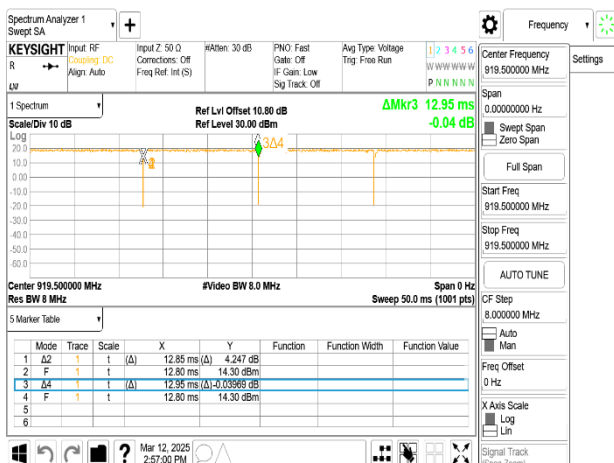
8.4 Output Power

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.

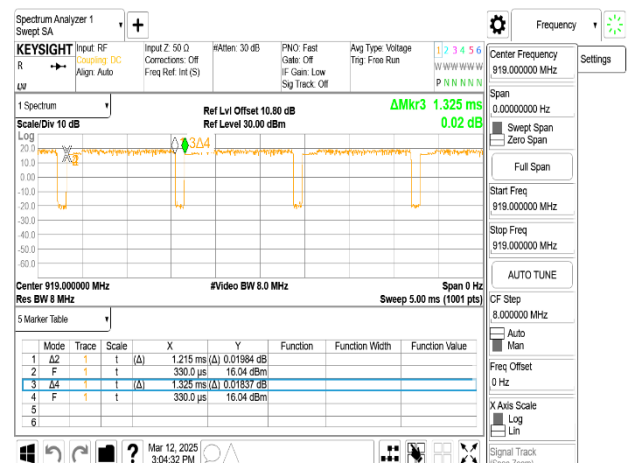
8.5 Duty Factor:

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
OFDM 1M	99.22	0.03	0.08	0.01
OFDM 2M	91.69	0.38	0.82	1.00

OFDM_1M_919.5MHz



OFDM_2M_919MHz



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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	919.5	13	19.62	30
Mid	923.5	13	19.53	30
High	926.5	13	19.56	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	919.5	13	13.18	30
Mid	923.5	13	13.09	30
High	926.5	13	13.13	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 Setting	Peak Output Power (dBm)	Required Limit (dBm)
Low	919	13	19.33	30
Mid	923	13	19.22	30
High	925	13	19.26	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	919	13	13.14	30
Mid	923	13	13.03	30
High	925	13	13.09	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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8.6.2 EIRP

EIRP OFDM 1M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	919.5	13	13.18	0.21	13.39	4W= 36 dBm
Mid	923.5	13	13.09	0.21	13.30	4W= 36 dBm
High	926.5	13	13.13	0.21	13.34	4W= 36 dBm

* **Note:** EIRP = Average Power + Gain

EIRP OFDM 2M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	919	13	13.14	0.21	13.35	4W= 36 dBm
Mid	923	13	13.03	0.21	13.24	4W= 36 dBm
High	925	13	13.09	0.21	13.30	4W= 36 dBm

* **Note:** EIRP = Average Power + Gain

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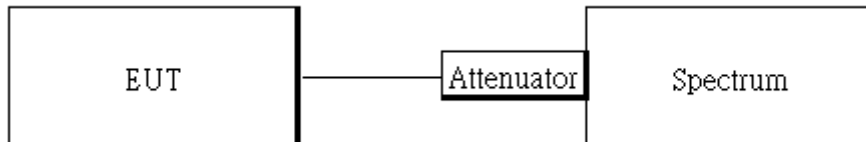
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9 EMISSION BANDWIDTH MEASUREMENT

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
919.5	0.817	≥ 0.5	PASS
923.5	0.8072	≥ 0.5	PASS
926.5	0.8155	≥ 0.5	PASS

OFDM 2M mode

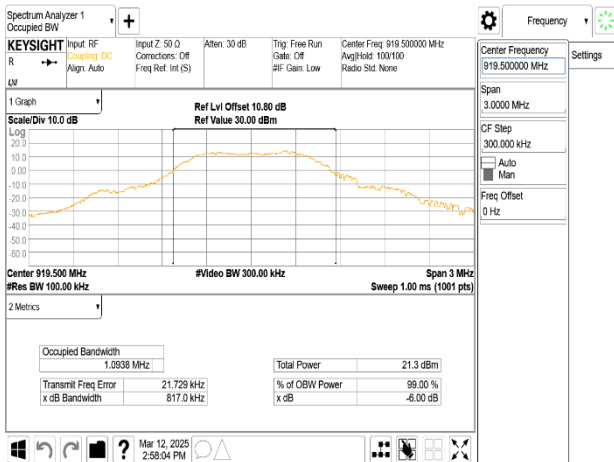
Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
919	1.813	≥ 0.5	PASS
923	1.813	≥ 0.5	PASS
925	1.815	≥ 0.5	PASS

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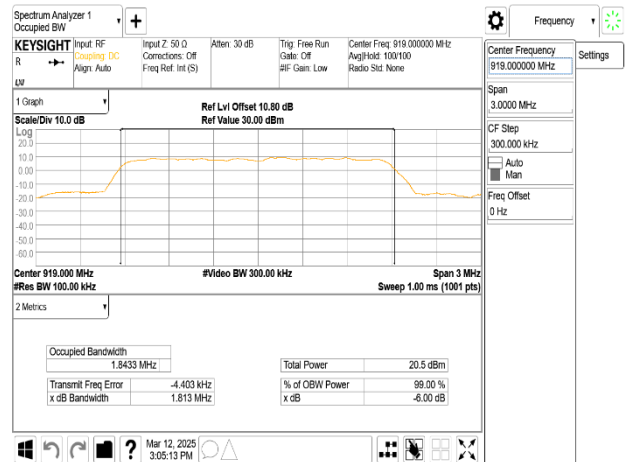
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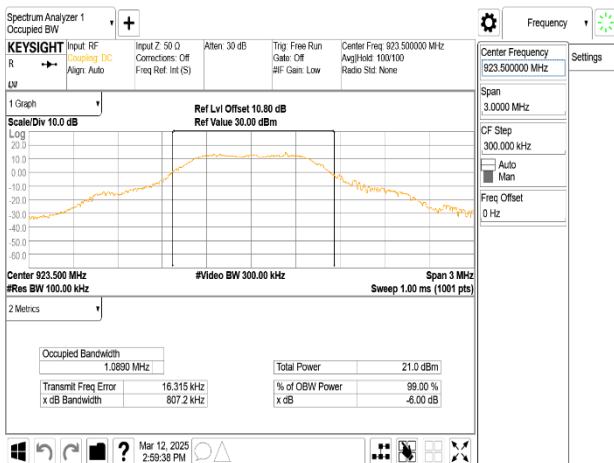
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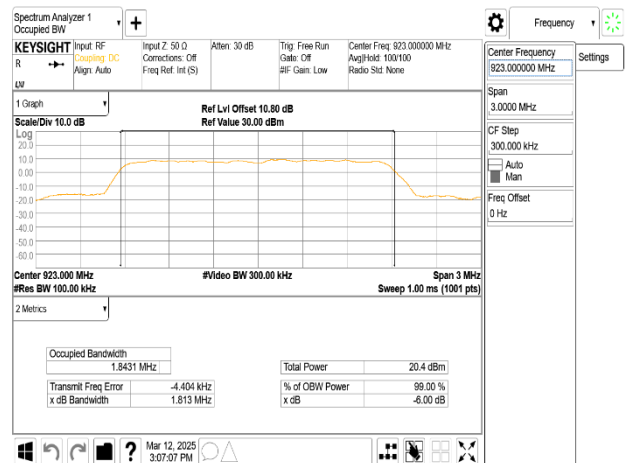
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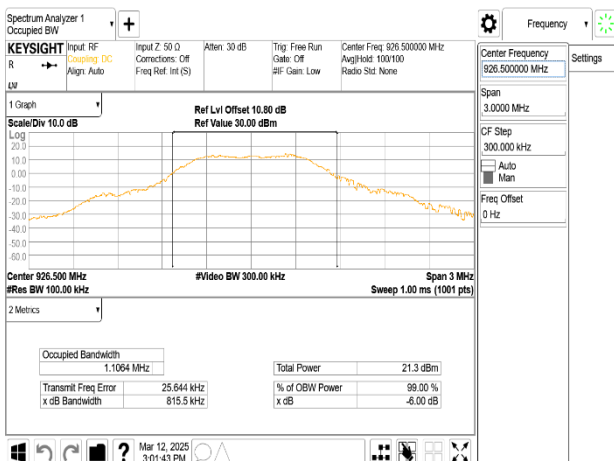
OBW_OFDM 1M_MidCH-923.5MHz



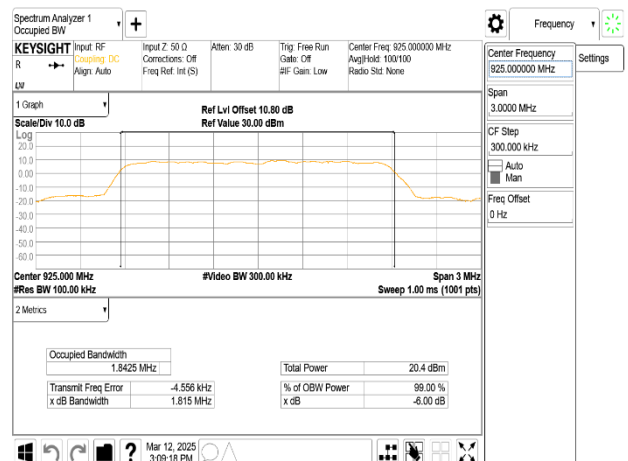
OBW_OFDM 2M_MidCH-923MHz



OBW_OFDM 1M_HighCH-926.5MHz



OBW_OFDM 2M_HighCH-925MHz



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9.4.2 99% Bandwidth

OFDM 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
919.5	0.94272
923.5	0.94423
926.5	0.95102

OFDM 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
919	1.8311
923	1.8321
925	1.8322

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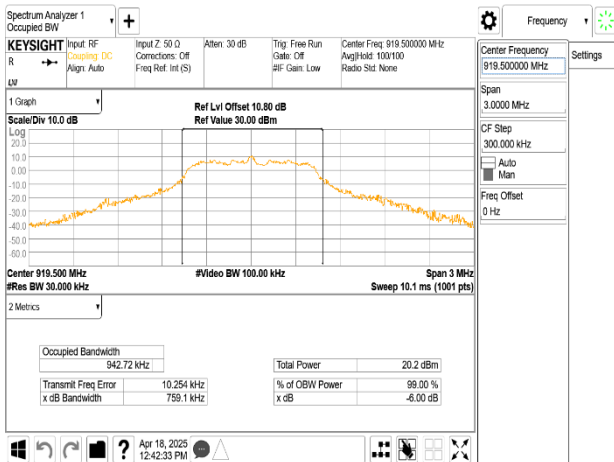
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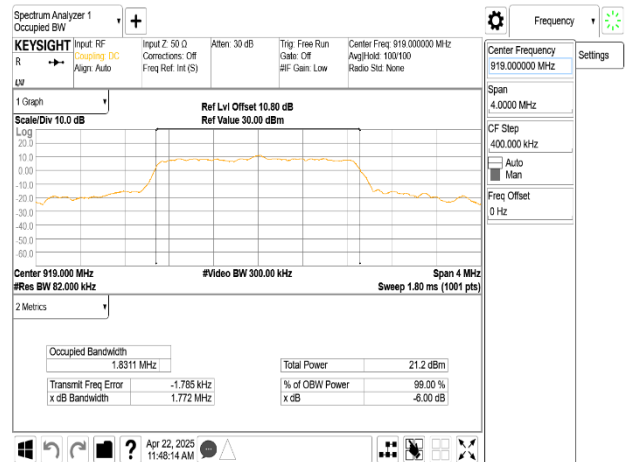
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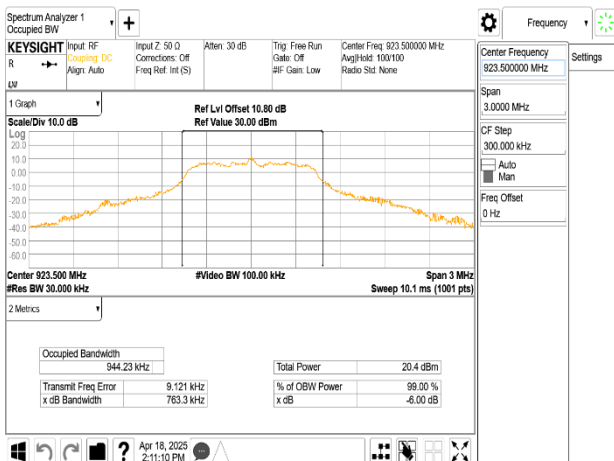
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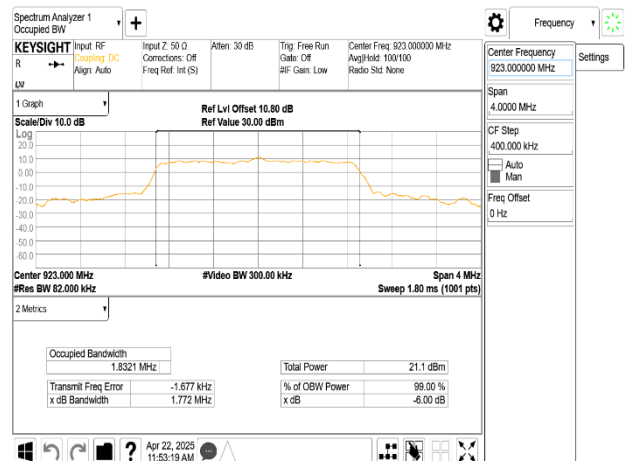
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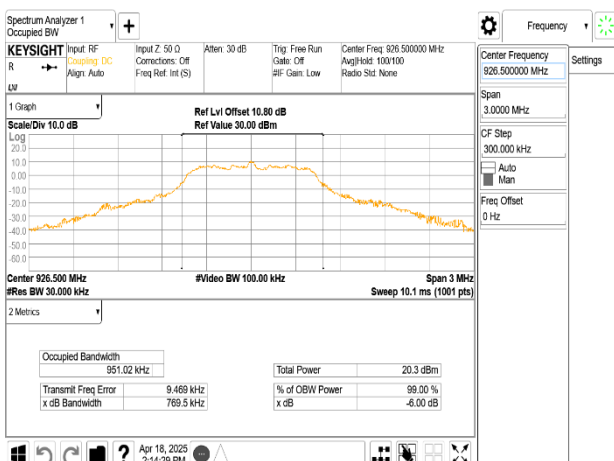
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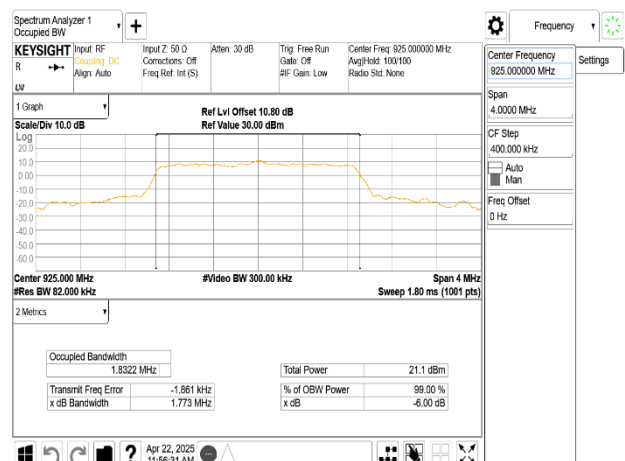
IC OBW_OFDM 2M_MidCH-923MHz



IC OBW_OFDM 1M_HighCH-926.5MHz



IC OBW_OFDM 2M_HighCH-925MHz



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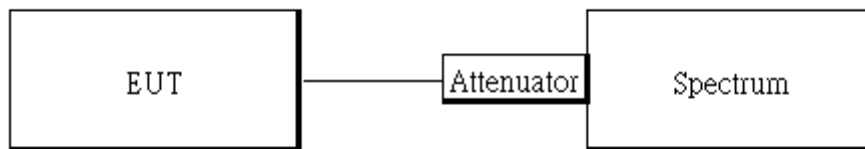
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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) & 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 & 2M 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_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
919.5	15.02	-4.98
923.5	14.95	-5.05
926.5	15.03	-4.97

***Note:**

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

OFDM 2M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
919	11.73	-8.27
923	11.66	-8.34
925	11.63	-8.37

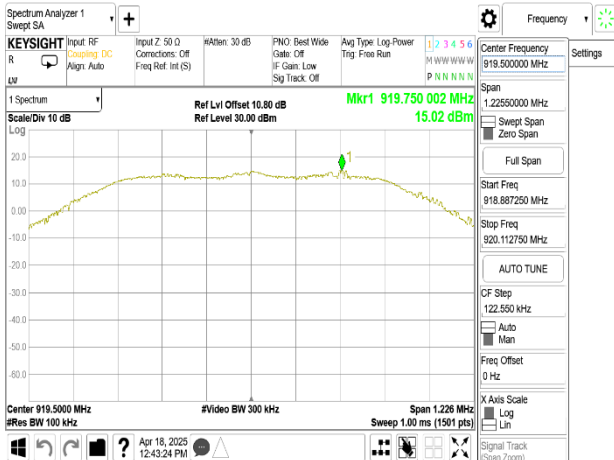
***Note:**

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

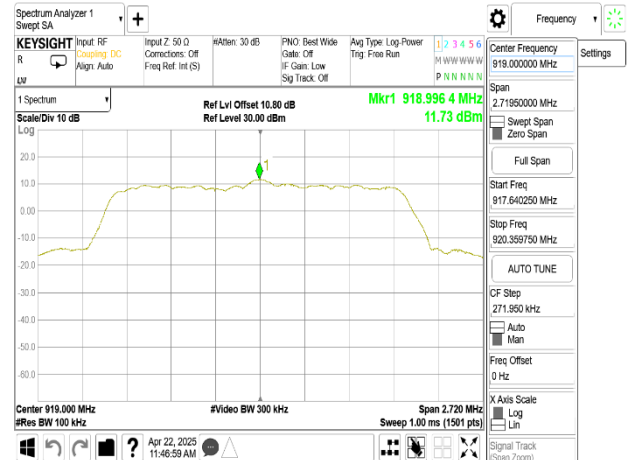
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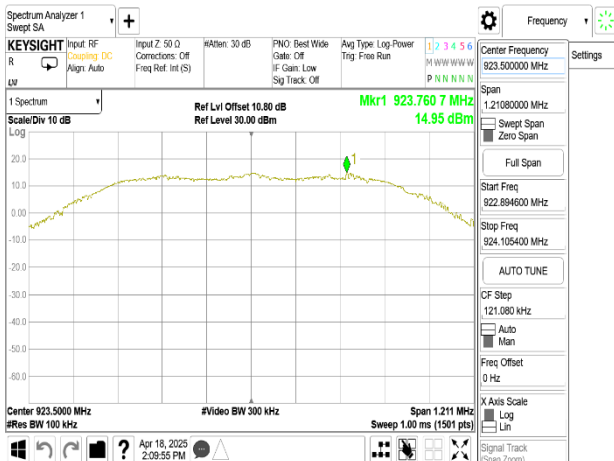
Reference Level_OFDM 1M_LowCH-919.5MHz



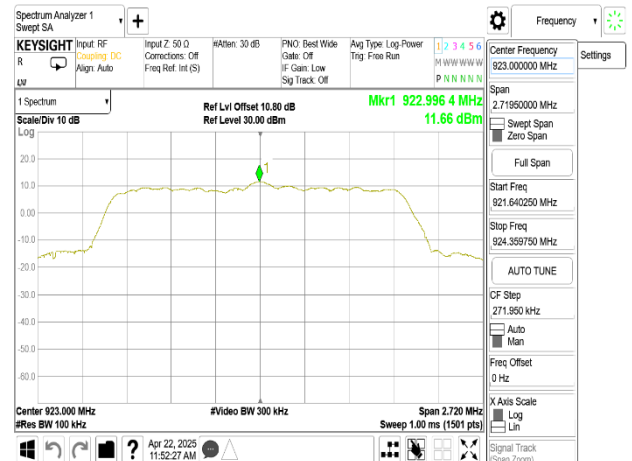
Reference Level_OFDM 2M_LowCH-919MHz



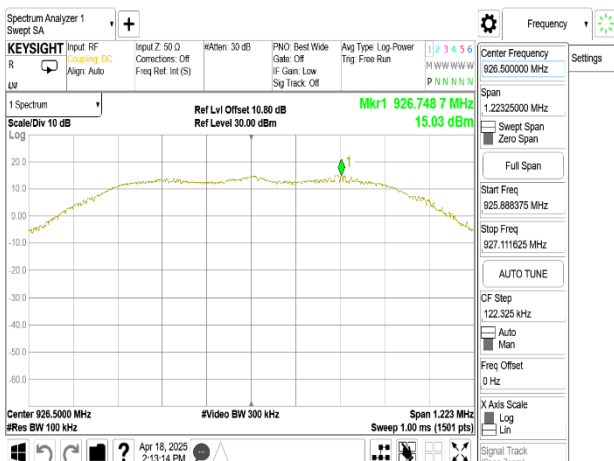
Reference Level_OFDM 1M_MidCH-923.5MHz



Reference Level_OFDM 2M_MidCH-923MHz



Reference Level_OFDM 1M_HighCH-926.5MHz



Reference Level_OFDM 2M_HighCH-925MHz

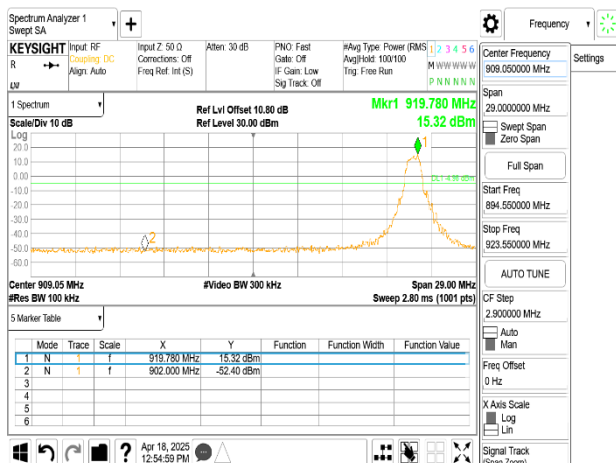


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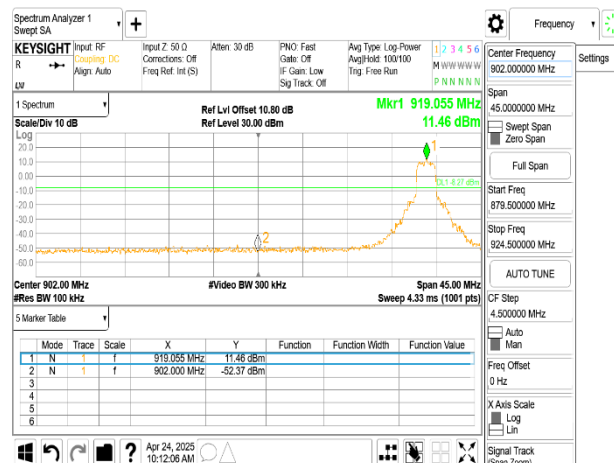
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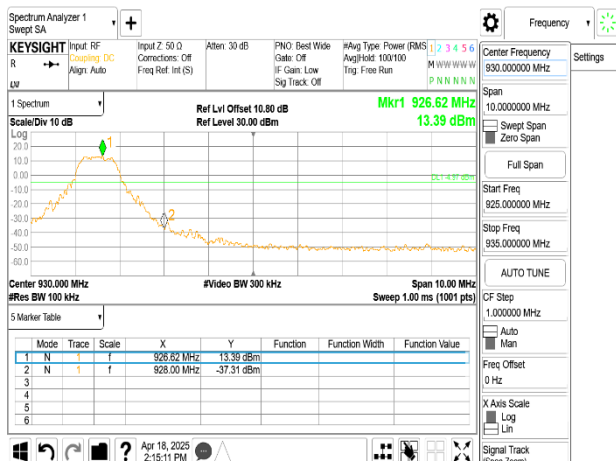
Band Edge_OFDM 1M_LowCH-919.5MHz



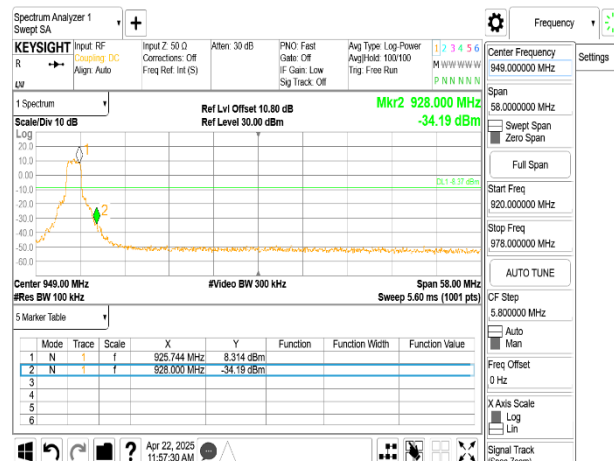
Band Edge_OFDM 2M_LowCH-919MHz



Band Edge_OFDM 1M_HighCH-926.5MHz



Band Edge_OFDM 2M_HighCH-925MHz

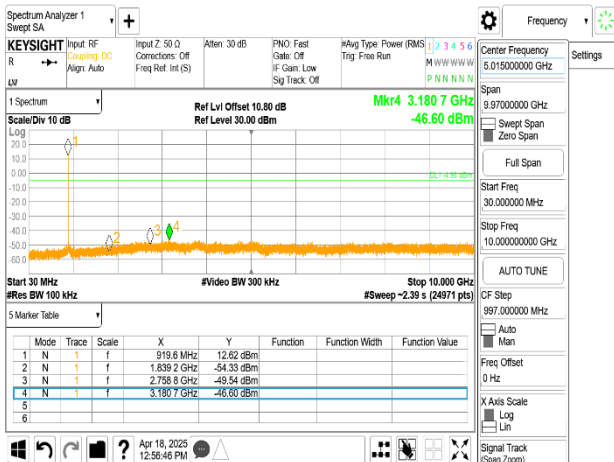


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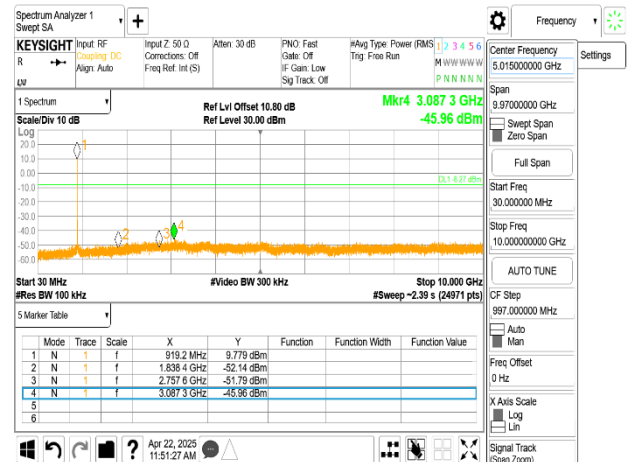
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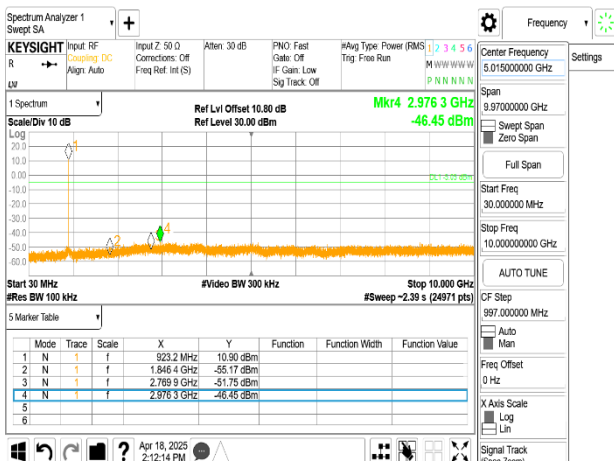
Spurious Emission_OFDM 1M_LowCH-919.5MHz



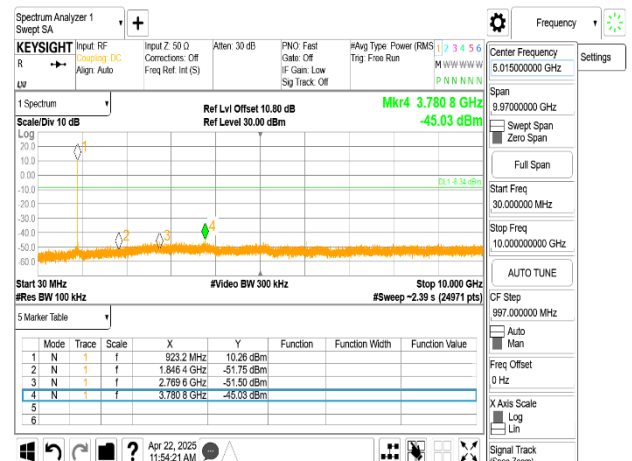
Spurious Emission_OFDM 2M_LowCH-919MHz



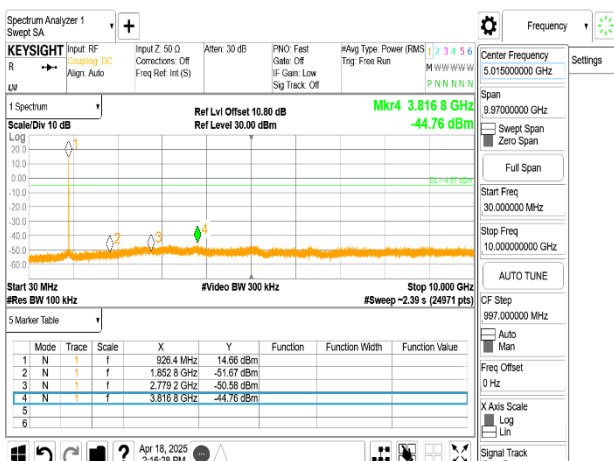
Spurious Emission_OFDM 1M_MidCH-923.5MHz



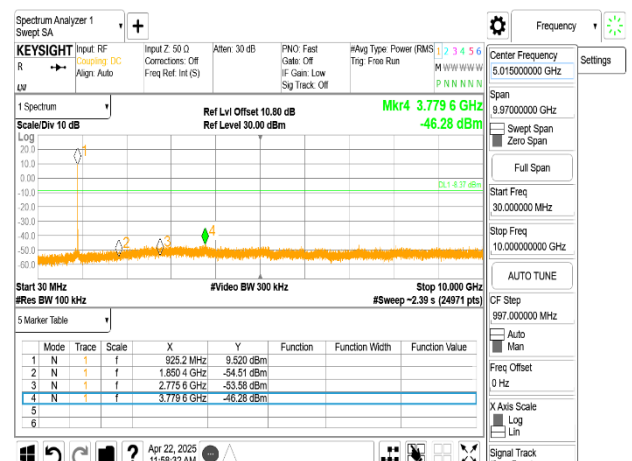
Spurious Emission_OFDM 2M_MidCH-923MHz



Spurious Emission_OFDM 1M_HighCH-926.5MHz



Spurious Emission_OFDM 2M_HighCH-925MHz



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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:

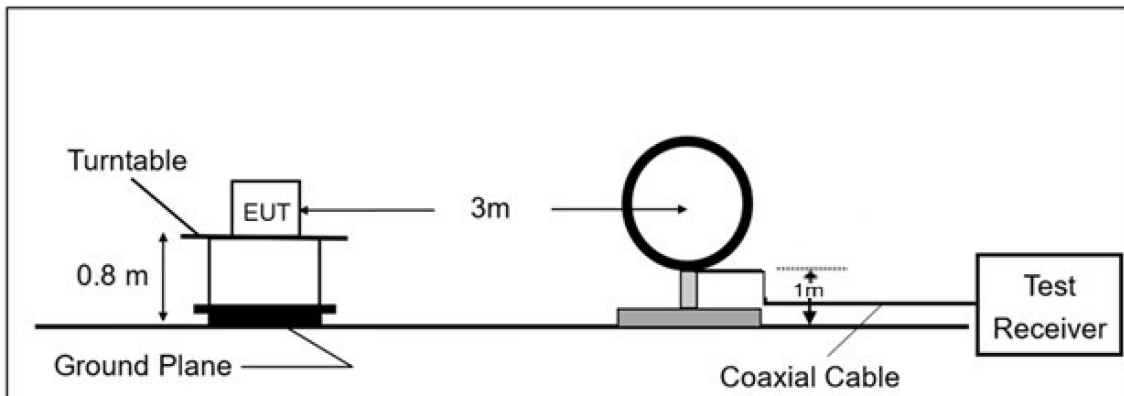
1. The lower limit shall apply at the transition frequencies.

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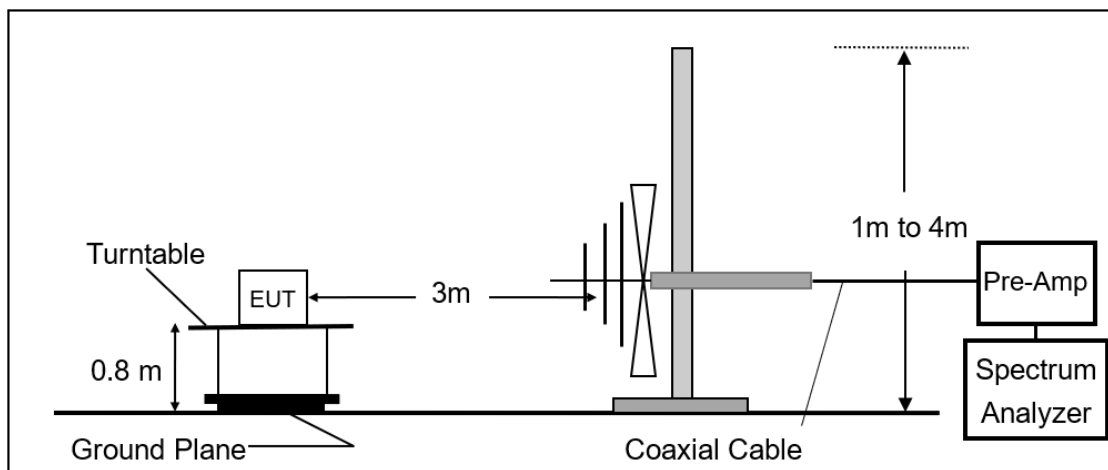
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11.2 Test Setup

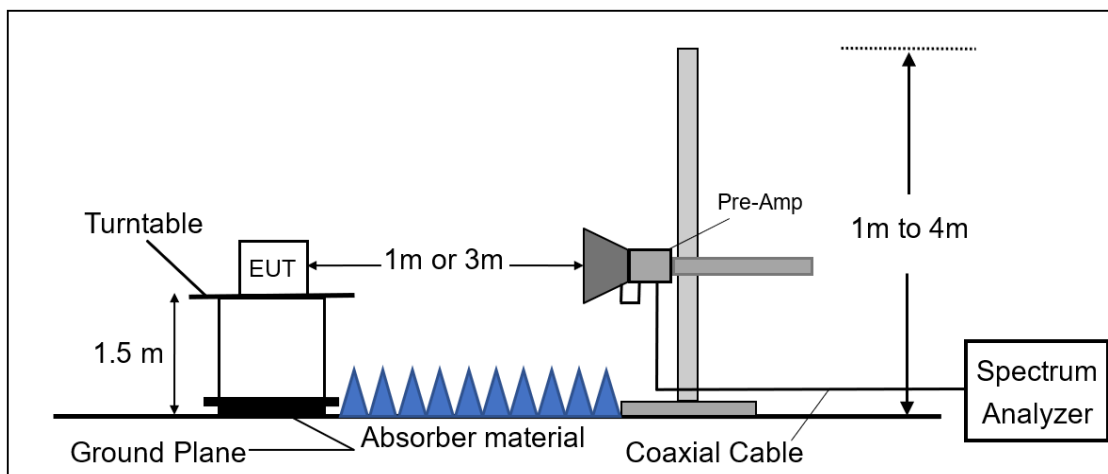
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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

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) & 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.

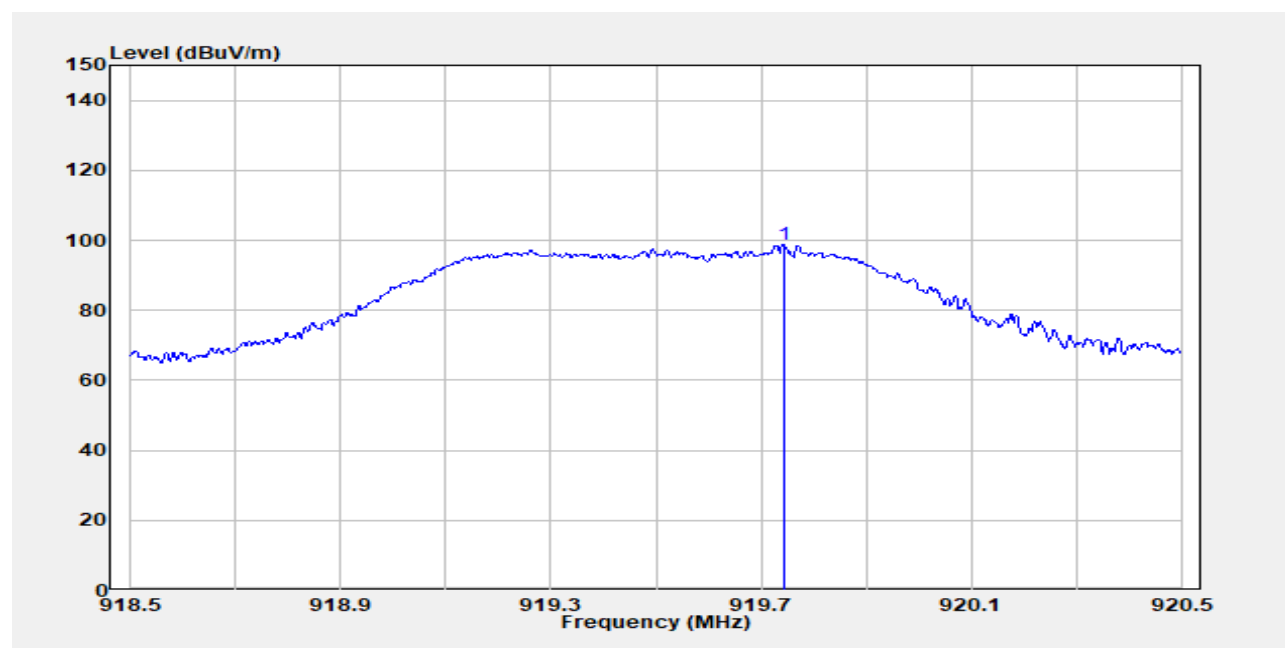
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11.6.1 Radiated Main Measurement Result

Report Number	:TERF2503001511E2	Test Site	:SAC D
Operation Mode	:OFDM1M	Test Date	:2025-04-08
Test Frequency	:919.5 MHz	Temp./Humi.	:20.3°C/60%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Temo Chen



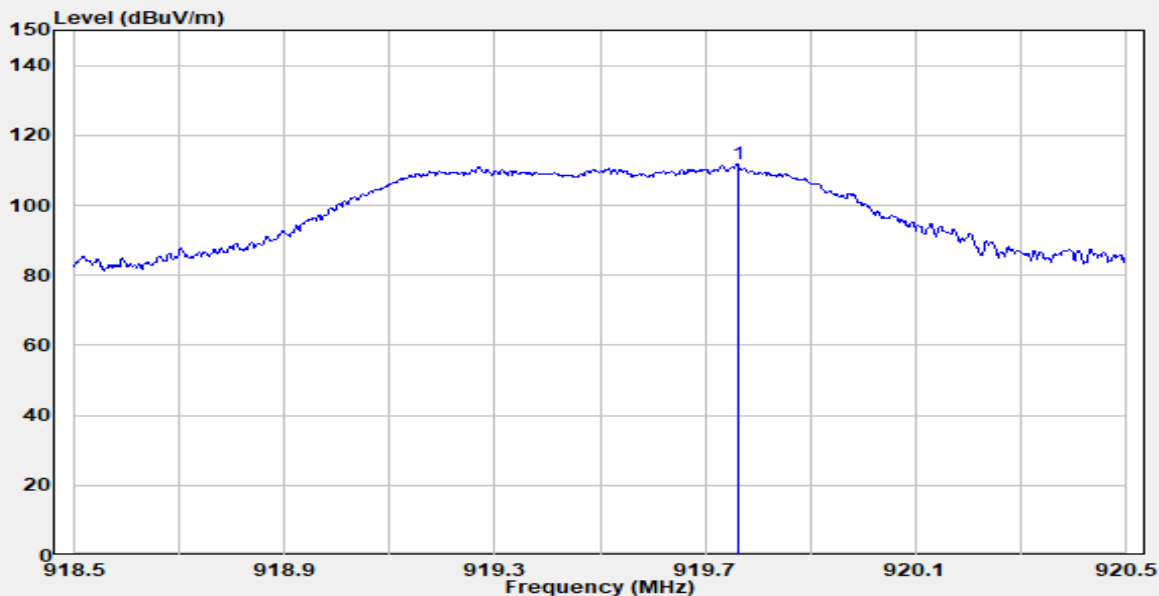
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
919.74	Peak	103.87	-4.95	98.92	-	-

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Report Number :TERF2503001511E2
Operation Mode :OFDM1M
Test Frequency :919.5 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Horizontal
Engineer :Temo Chen

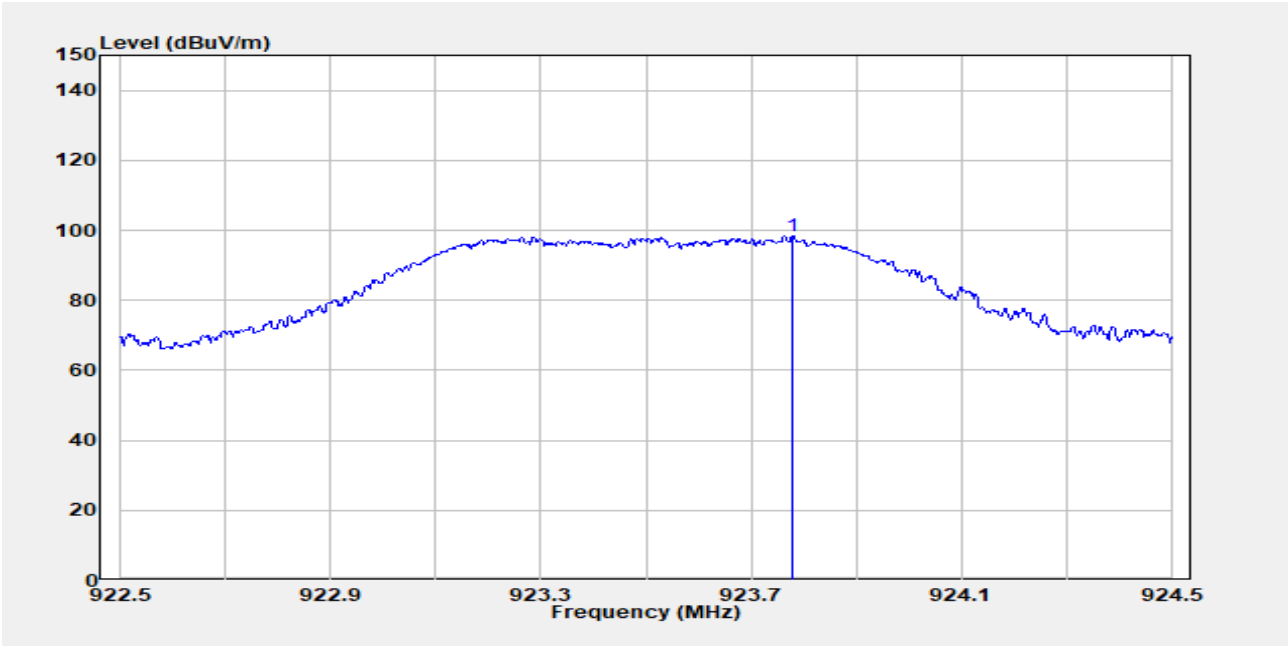


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
919.76	Peak	116.78	-4.94	111.84	-	-

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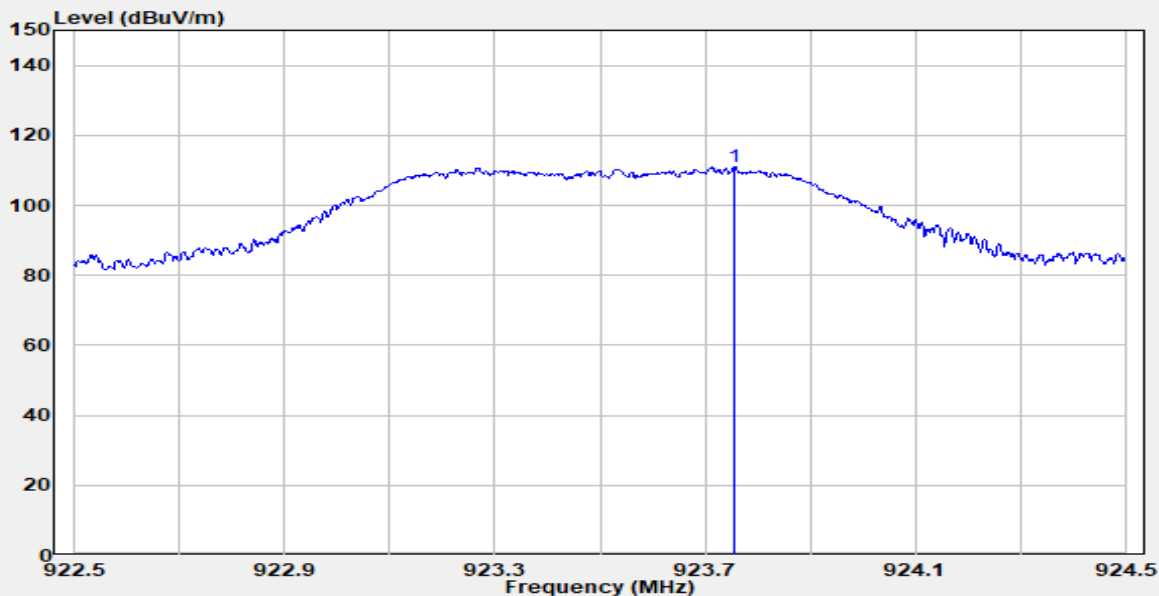
Report Number	:TERF2503001511E2	Test Site	:SAC D
Operation Mode	:OFDM1M	Test Date	:2025-04-08
Test Frequency	:923.5 MHz	Temp./Humi.	:20.3°C/60%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
923.78	Peak	103.28	-4.85	98.43	-	-

Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :923.5 MHz
 Test Mode :Main
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



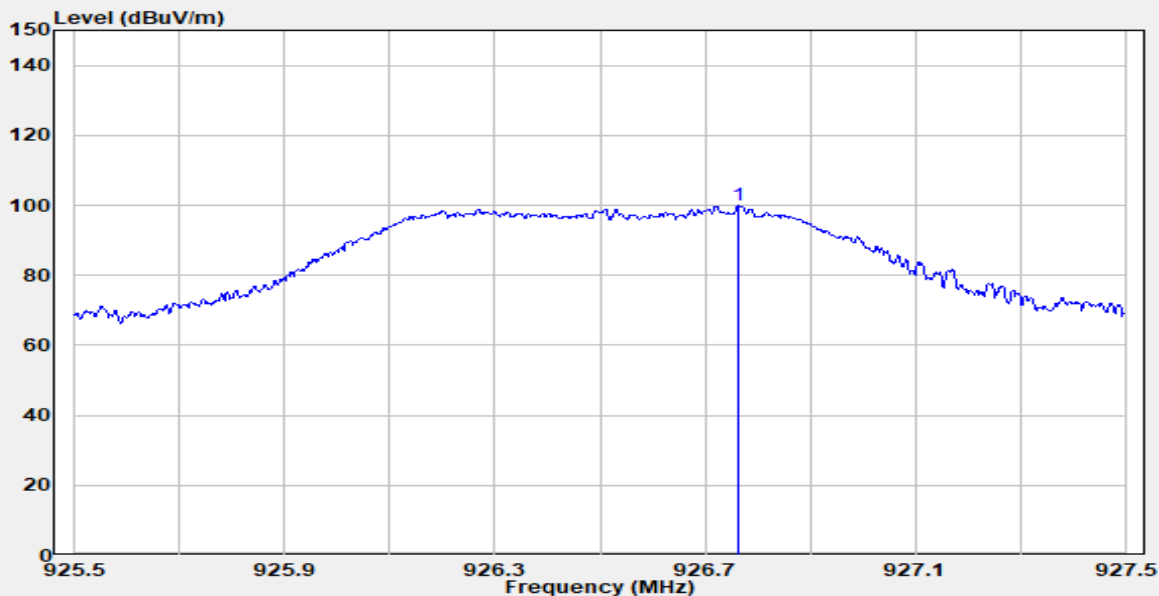
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
923.76	Peak	115.89	-4.85	111.04	-	-

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Report Number :TERF2503001511E2
Operation Mode :OFDM1M
Test Frequency :926.5 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Vertical
Engineer :Temo Chen



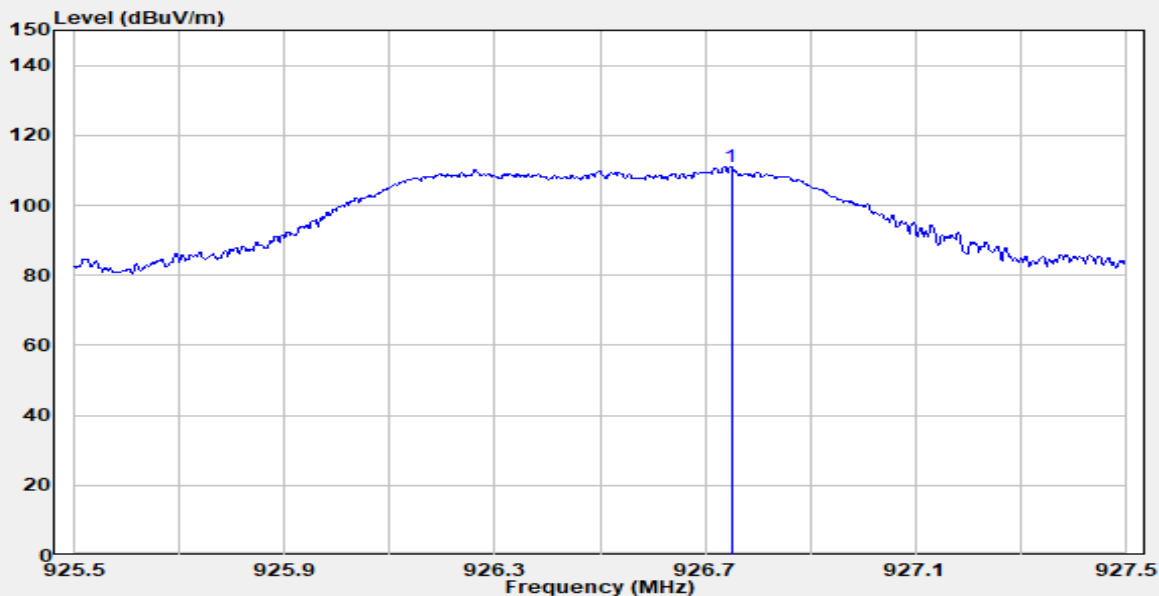
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
926.76	Peak	104.68	-4.79	99.89	-	-

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Report Number :TERF2503001511E2
Operation Mode :OFDM1M
Test Frequency :926.5 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Horizontal
Engineer :Temo Chen



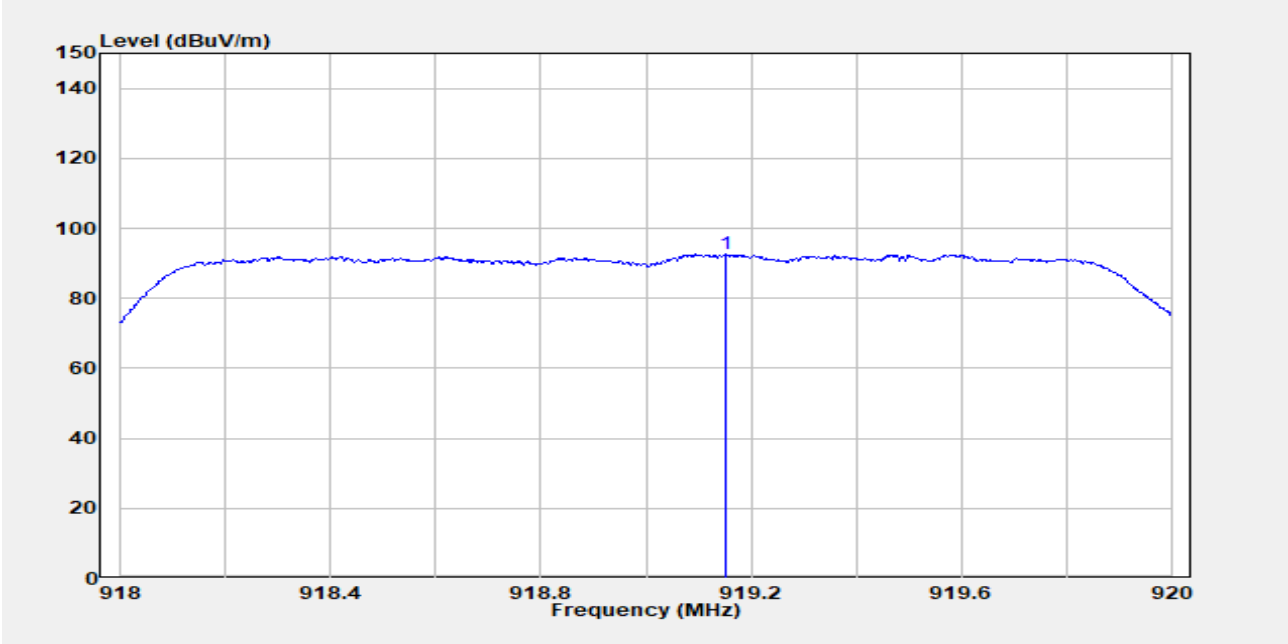
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
926.75	Peak	115.71	-4.80	110.91	-	-

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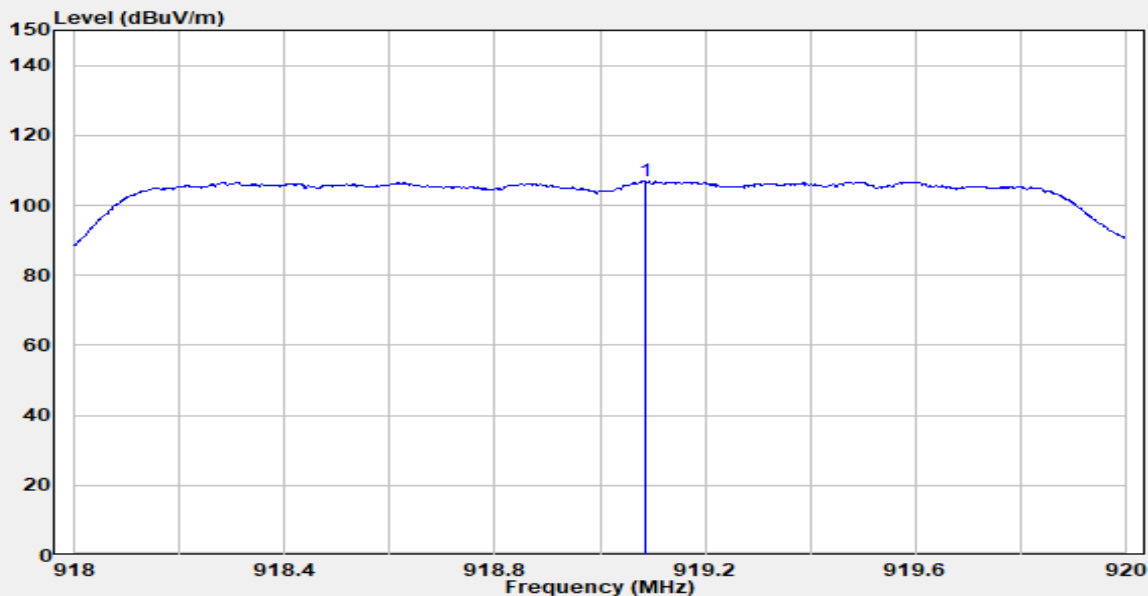
Report Number	:TERF2503001511E2	Test Site	:SAC D
Operation Mode	:OFDM2M	Test Date	:2025-04-08
Test Frequency	:919 MHz	Temp./Humi.	:20.3°C/60%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
919.15	Peak	97.64	-4.96	92.68	-	-

Report Number :TERF2503001511E2
Operation Mode :OFDM2M
Test Frequency :919 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
919.09	Peak	111.80	-4.96	106.84	-	-

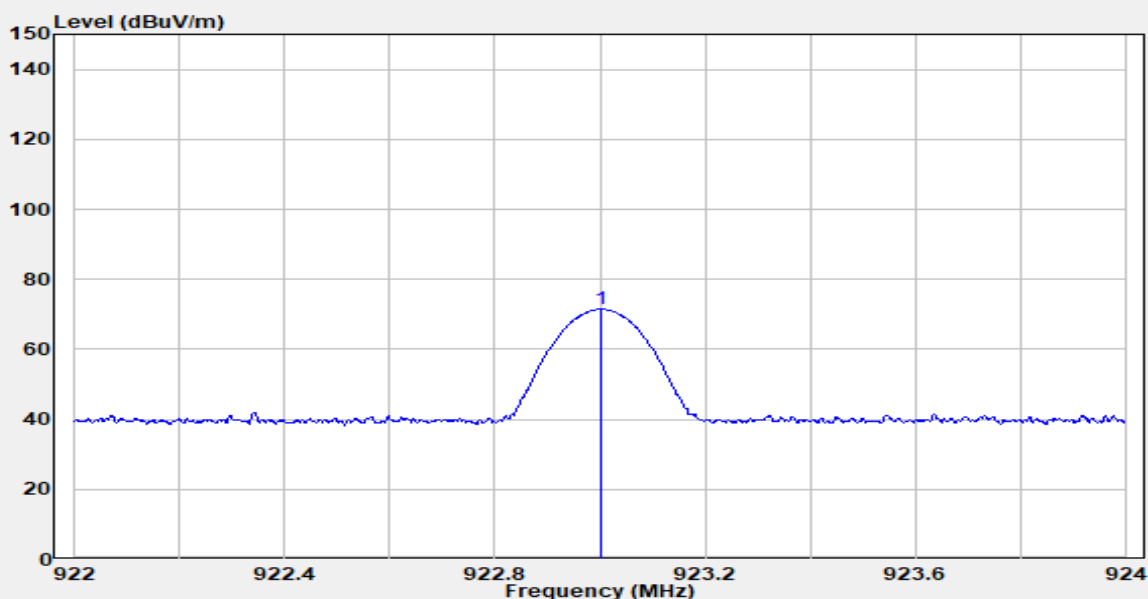
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Report Number :TERF2503001511E2
Operation Mode :OFDM2M
Test Frequency :923 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
923.00	Peak	76.30	-4.87	71.43	-	-

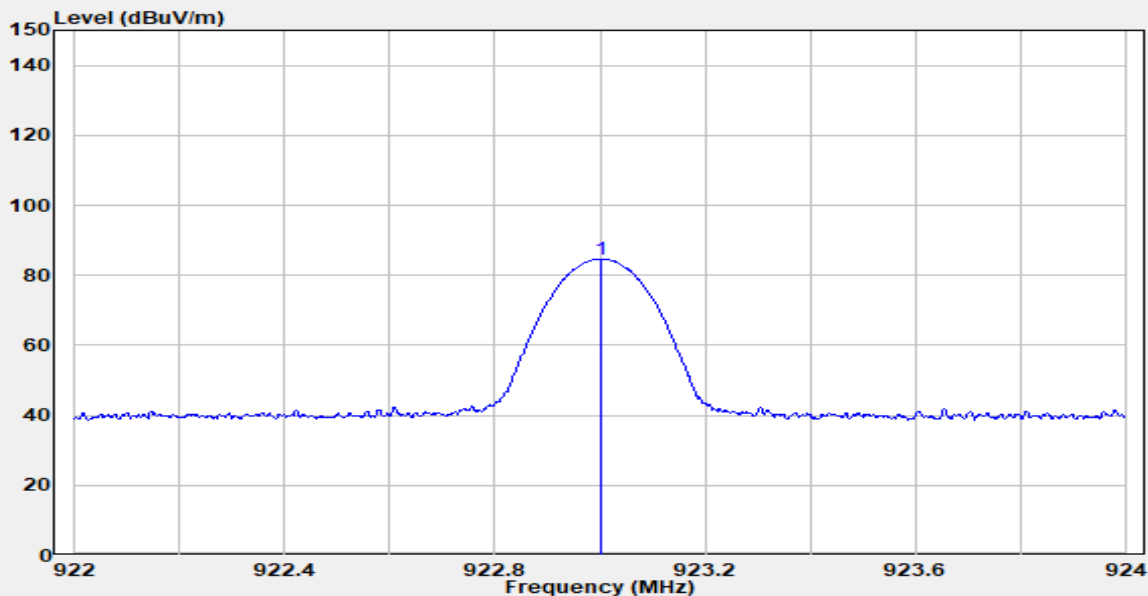
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Report Number :TERF2503001511E2
Operation Mode :OFDM2M
Test Frequency :923 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
923.00	Peak	89.56	-4.87	84.69	-	-

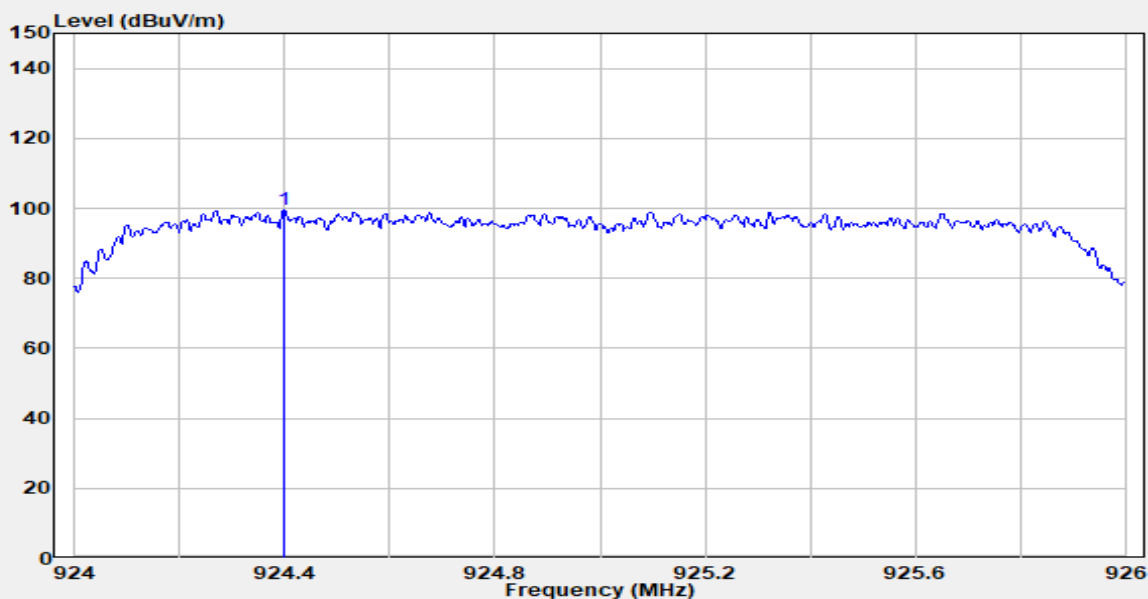
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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :925 MHz
 Test Mode :Main
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



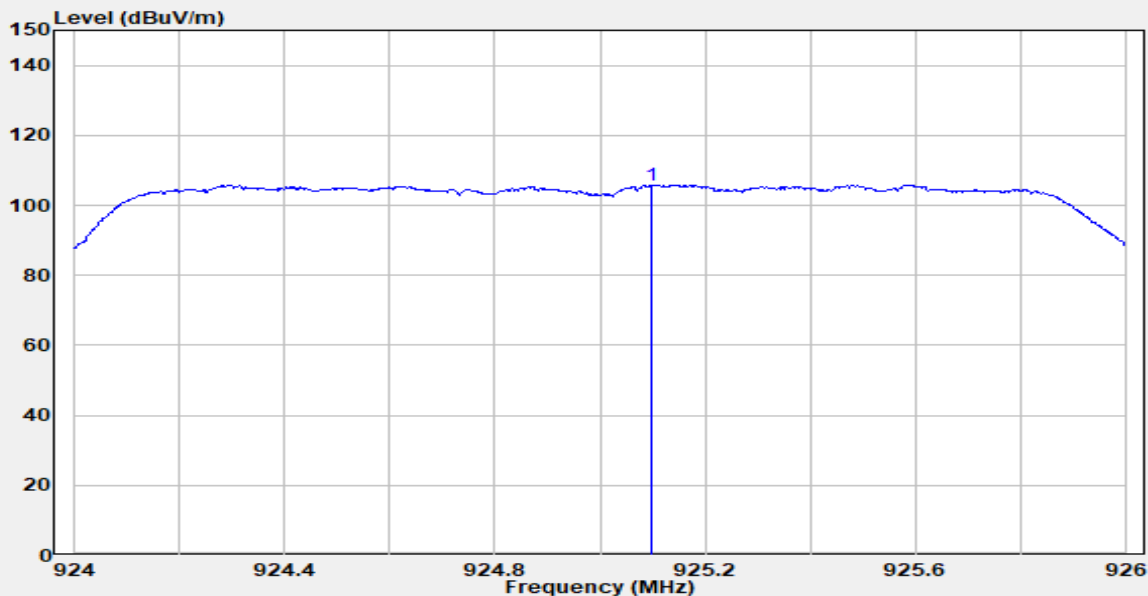
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
924.40	Peak	104.32	-4.84	99.48	-	-

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Report Number :TERF2503001511E2
Operation Mode :OFDM2M
Test Frequency :925 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
925.10	Peak	110.64	-4.83	105.81	-	-

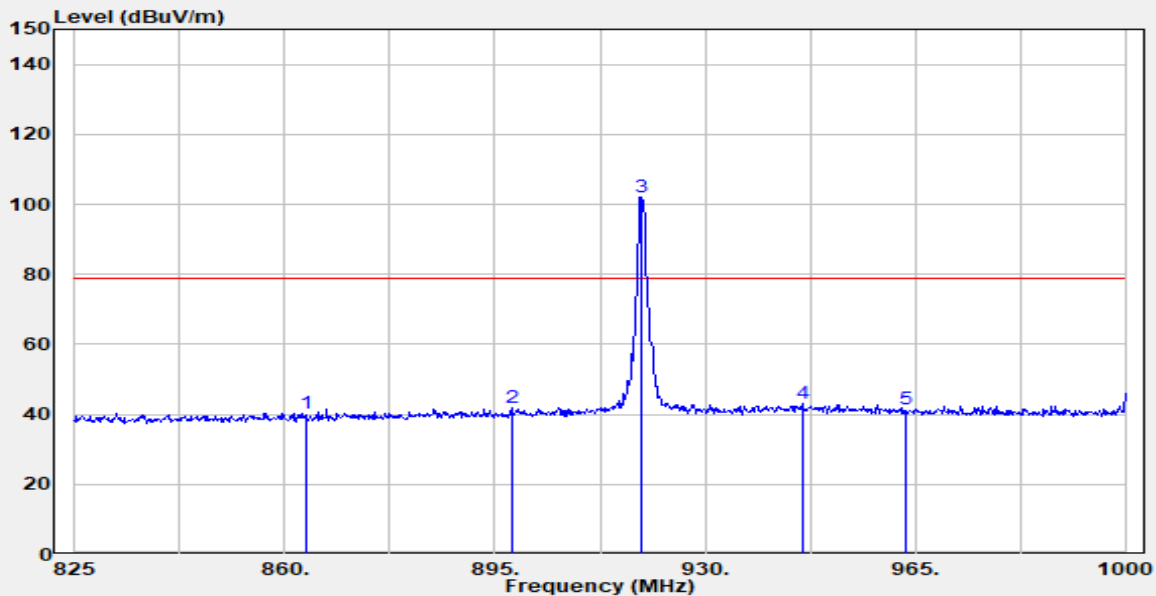
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11.6.2 Band Edge Measurement Result

Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :919.5 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



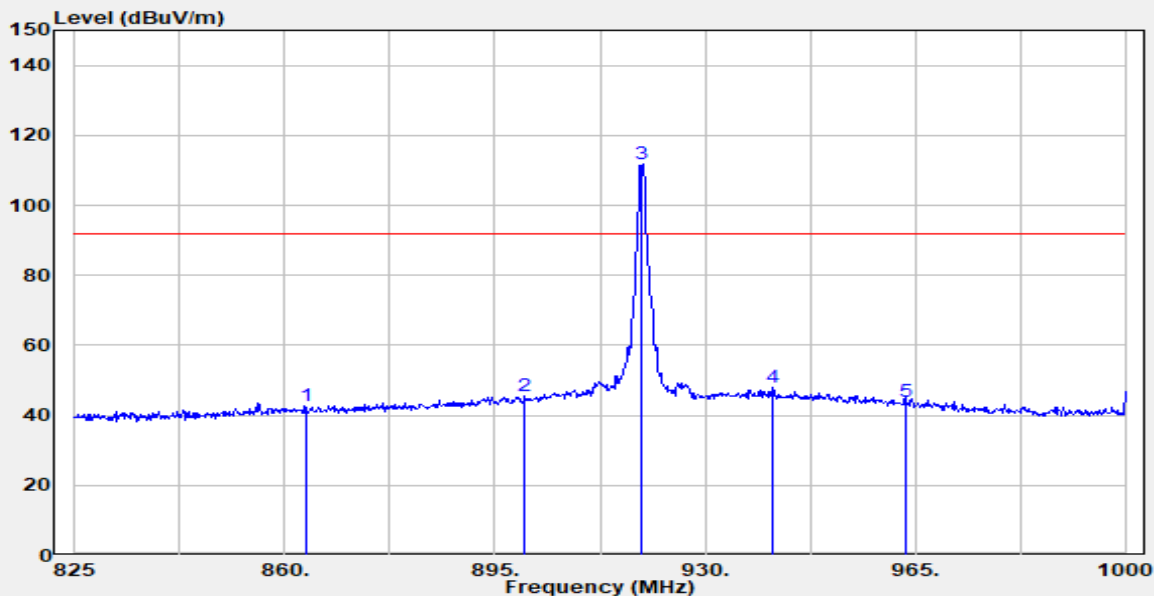
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
863.50	Peak	46.21	-5.93	40.28	78.92	-38.64
897.80	Peak	47.38	-5.41	41.97	78.92	-36.95
919.50	Peak	107.09	-4.95	102.14	-	-
946.28	Peak	47.49	-4.42	43.07	78.92	-35.85
963.43	Peak	45.89	-4.23	41.66	78.92	-37.26

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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :919.5 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



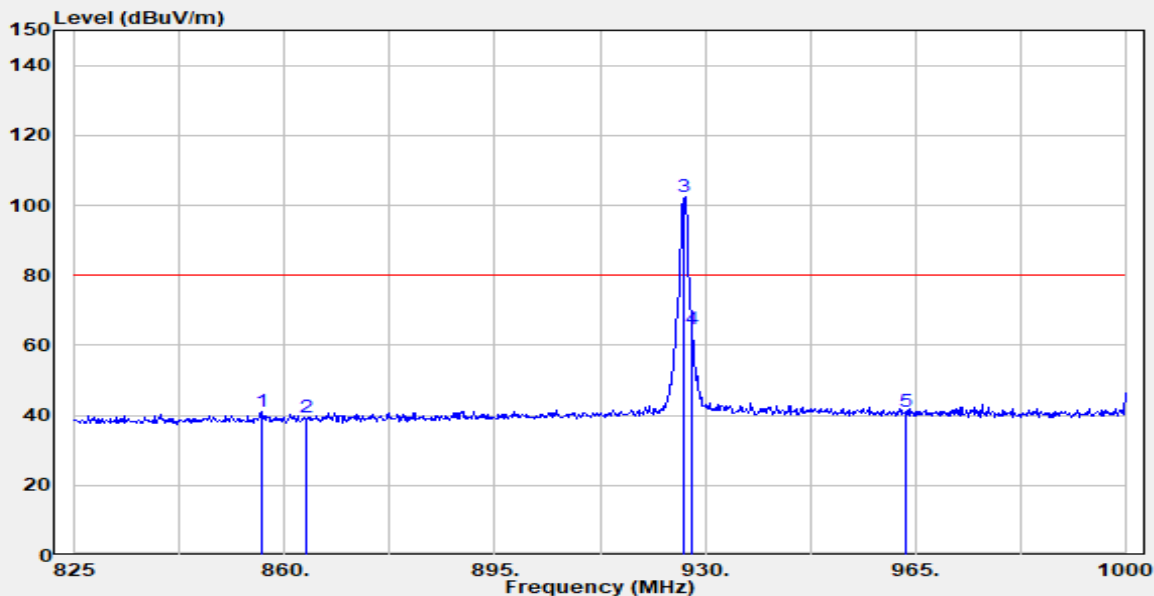
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
863.50	Peak	48.55	-5.93	42.62	91.84	-49.22
899.90	Peak	50.92	-5.36	45.56	91.84	-46.28
919.50	Peak	116.60	-4.95	111.65	-	-
941.38	Peak	52.36	-4.48	47.88	91.84	-43.96
963.43	Peak	48.06	-4.23	43.83	91.84	-48.01

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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :926.5 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



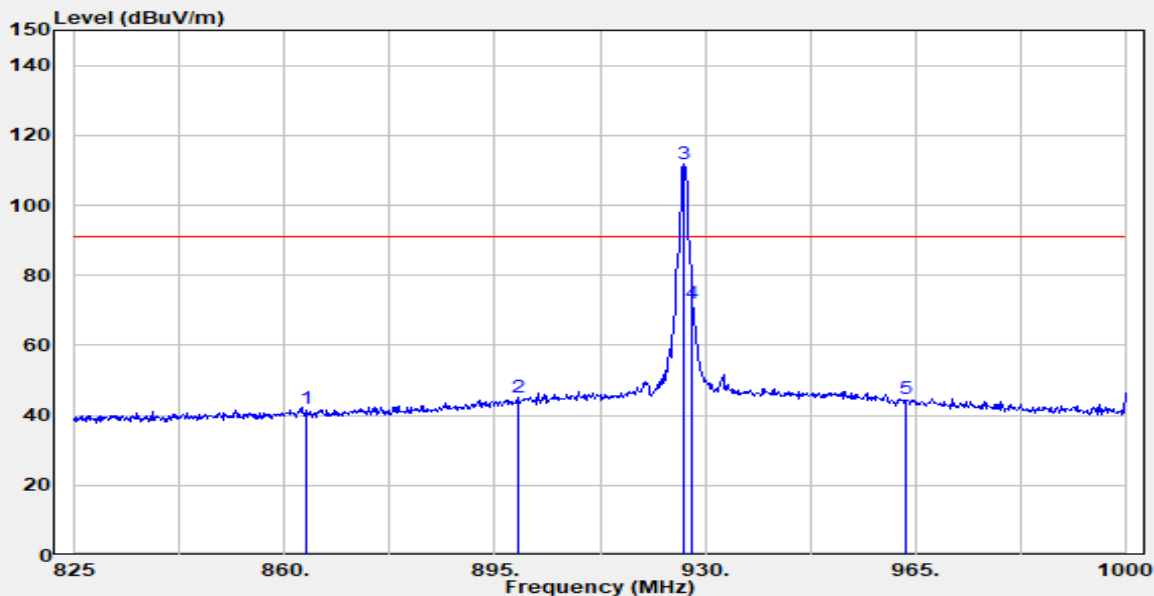
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
856.15	Peak	47.03	-5.95	41.08	79.89	-38.81
863.50	Peak	45.33	-5.93	39.40	79.89	-40.49
926.50	Peak	107.08	-4.80	102.28	-	-
927.90	Peak	69.43	-4.77	64.66	79.89	-15.23
963.43	Peak	45.26	-4.23	41.03	79.89	-38.86

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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :926.5 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



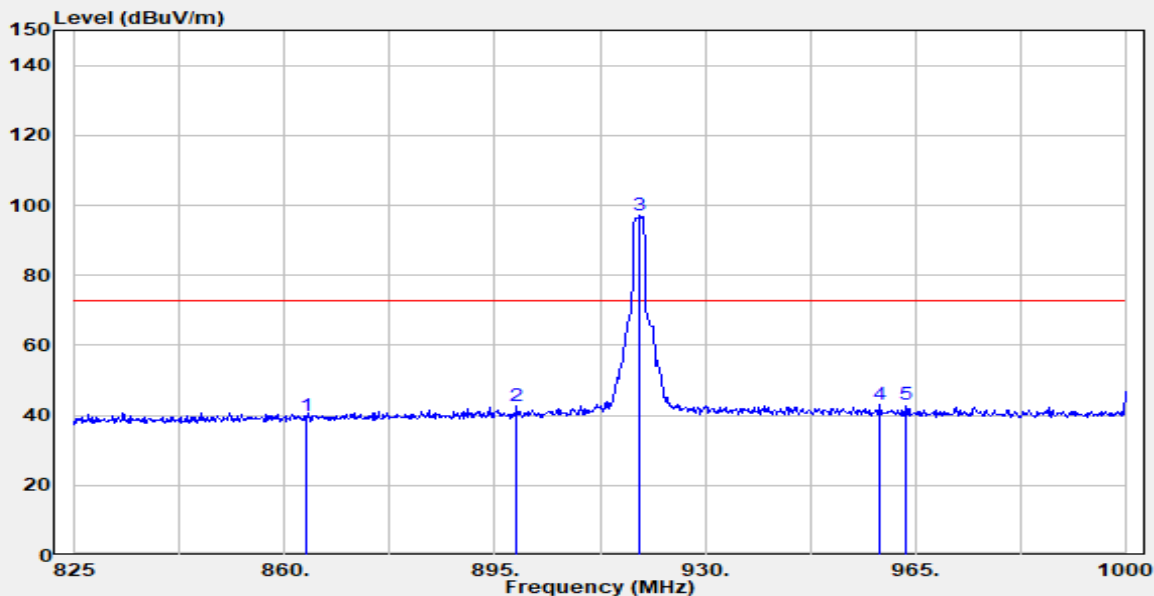
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
863.50	Peak	47.77	-5.93	41.84	90.91	-49.07
898.85	Peak	50.59	-5.38	45.21	90.91	-45.70
926.50	Peak	116.44	-4.80	111.64	-	-
927.90	Peak	76.88	-4.77	72.11	90.91	-18.80
963.43	Peak	48.99	-4.23	44.76	90.91	-46.15

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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :919 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
863.50	Peak	45.92	-5.93	39.99	72.68	-32.69
898.68	Peak	48.12	-5.40	42.72	72.68	-29.96
919.00	Peak	102.03	-4.96	97.07	-	-
959.05	Peak	47.39	-4.25	43.14	72.68	-29.54
963.43	Peak	47.30	-4.23	43.07	72.68	-29.61

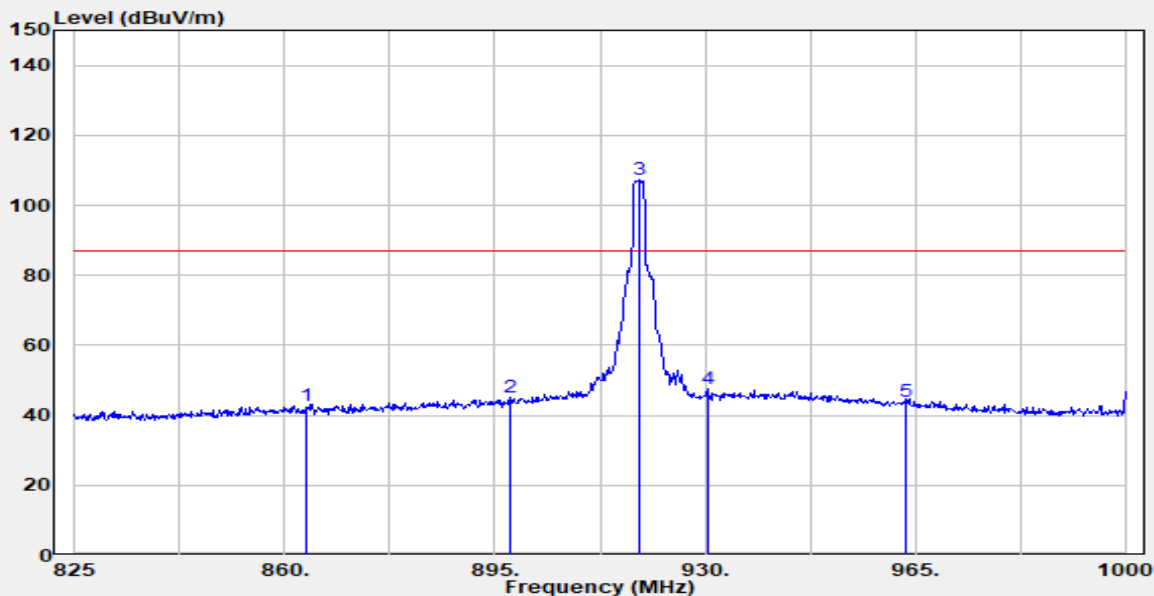
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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :919 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



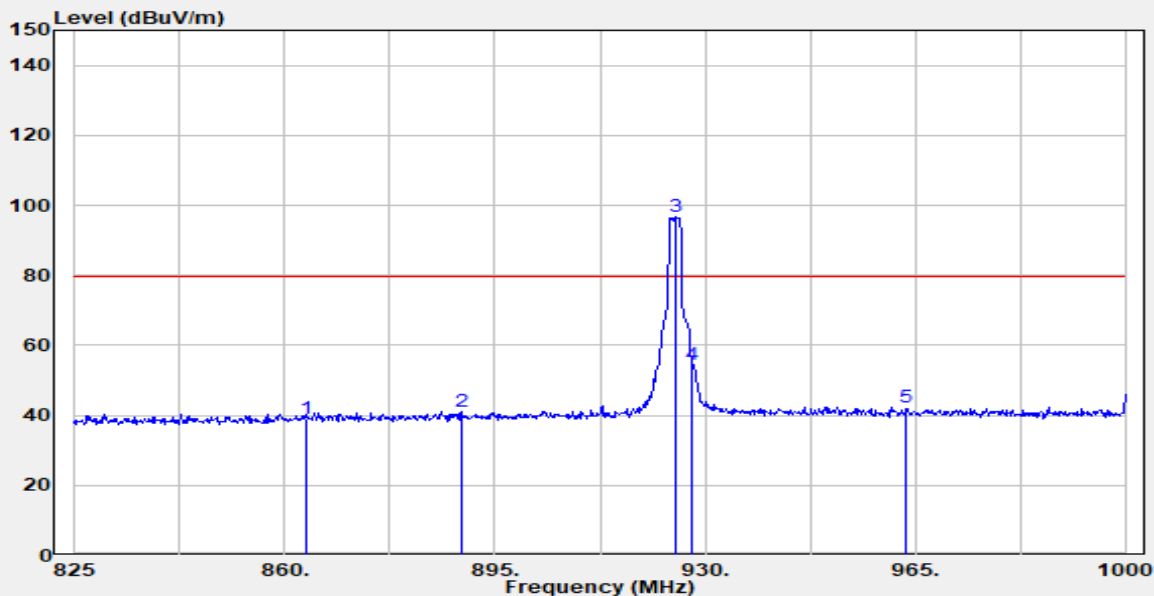
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
863.50	Peak	48.79	-5.93	42.86	86.84	-43.98
897.45	Peak	50.69	-5.43	45.26	86.84	-41.58
919.00	Peak	112.21	-4.96	107.25	-	-
930.35	Peak	52.30	-4.71	47.59	86.84	-39.25
963.43	Peak	48.16	-4.23	43.93	86.84	-42.91

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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :925 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



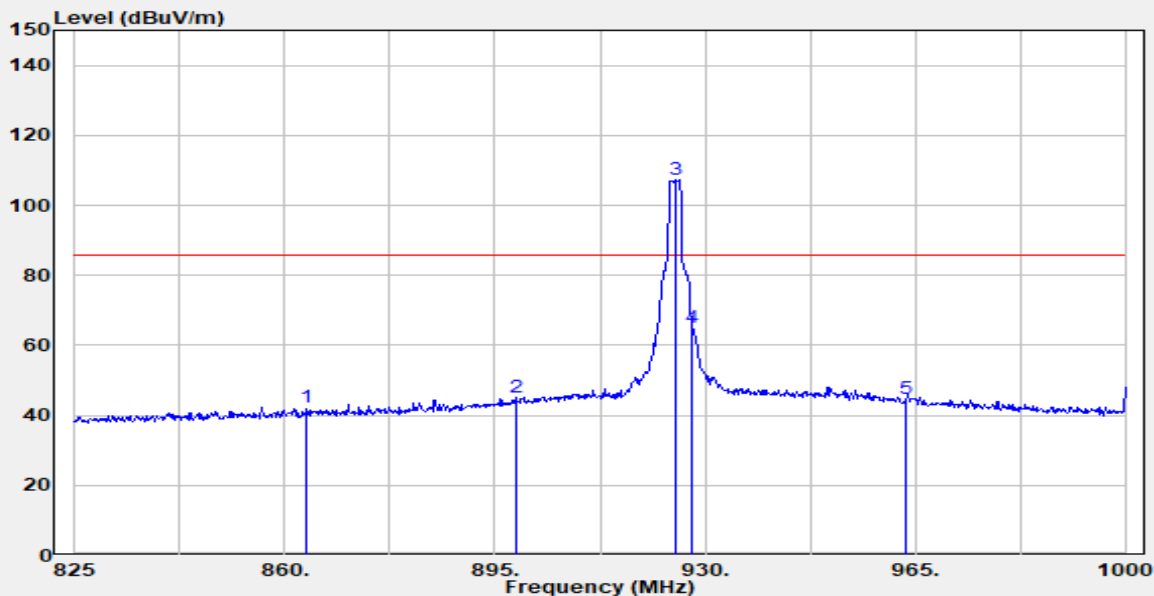
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
863.50	Peak	44.83	-5.93	38.90	79.48	-40.58
889.58	Peak	46.85	-5.62	41.23	79.48	-38.25
925.00	Peak	101.73	-4.83	96.90	-	-
927.90	Peak	59.30	-4.77	54.53	79.48	-24.95
963.43	Peak	46.39	-4.23	42.16	79.48	-37.32

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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :925 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
863.50	Peak	48.33	-5.93	42.40	85.81	-43.41
898.50	Peak	50.51	-5.40	45.11	85.81	-40.70
925.00	Peak	112.10	-4.83	107.27	-	-
927.90	Peak	69.63	-4.77	64.86	85.81	-20.95
963.43	Peak	48.80	-4.23	44.57	85.81	-41.24

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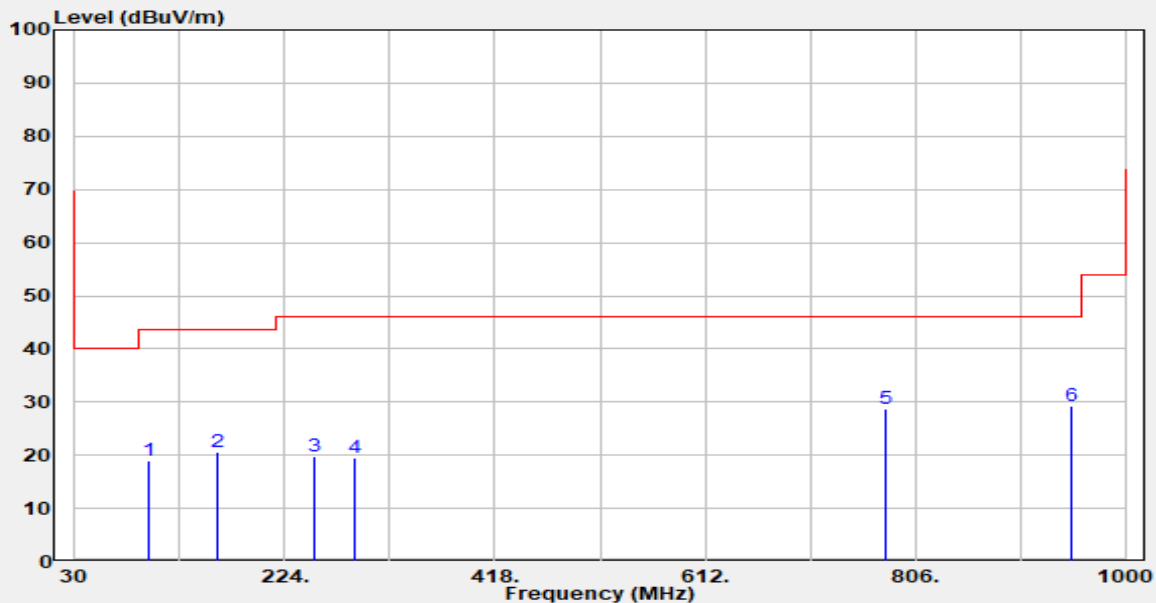
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11.6.3 Radiated Spurious Emission

Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :923.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



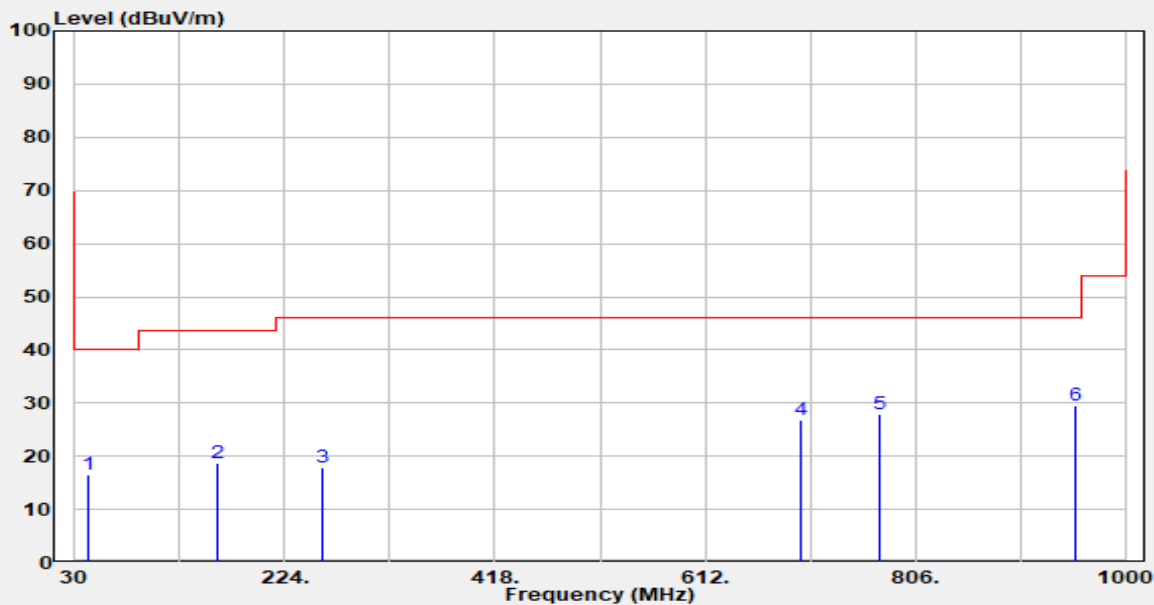
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
97.61	Peak	41.21	-22.19	19.02	43.50	-24.48
162.50	Peak	37.12	-16.54	20.58	43.50	-22.92
252.03	Peak	37.61	-17.88	19.73	46.00	-26.27
288.02	Peak	36.00	-16.38	19.62	46.00	-26.38
778.45	Peak	34.96	-6.36	28.60	46.00	-17.40
950.92	Peak	33.60	-4.33	29.27	46.00	-16.73

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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :923.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



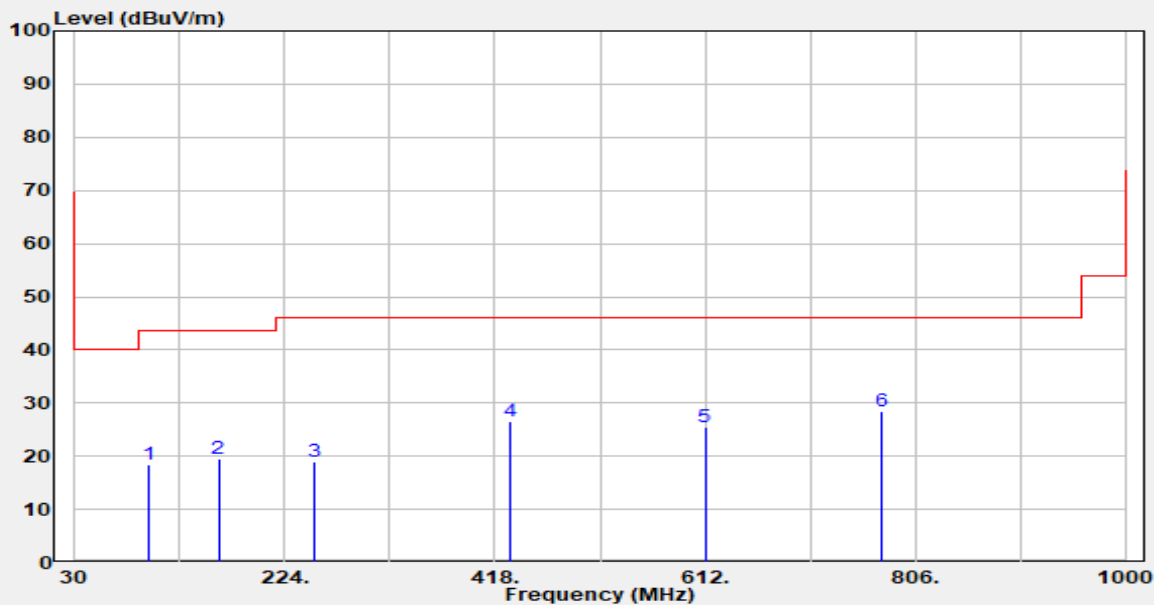
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
42.71	Peak	34.21	-17.76	16.45	40.00	-23.55
162.50	Peak	35.25	-16.54	18.71	43.50	-24.79
258.53	Peak	35.59	-17.65	17.94	46.00	-28.06
701.14	Peak	34.58	-7.83	26.75	46.00	-19.25
772.54	Peak	34.48	-6.45	28.03	46.00	-17.97
954.12	Peak	33.88	-4.30	29.58	46.00	-16.42

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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :923 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



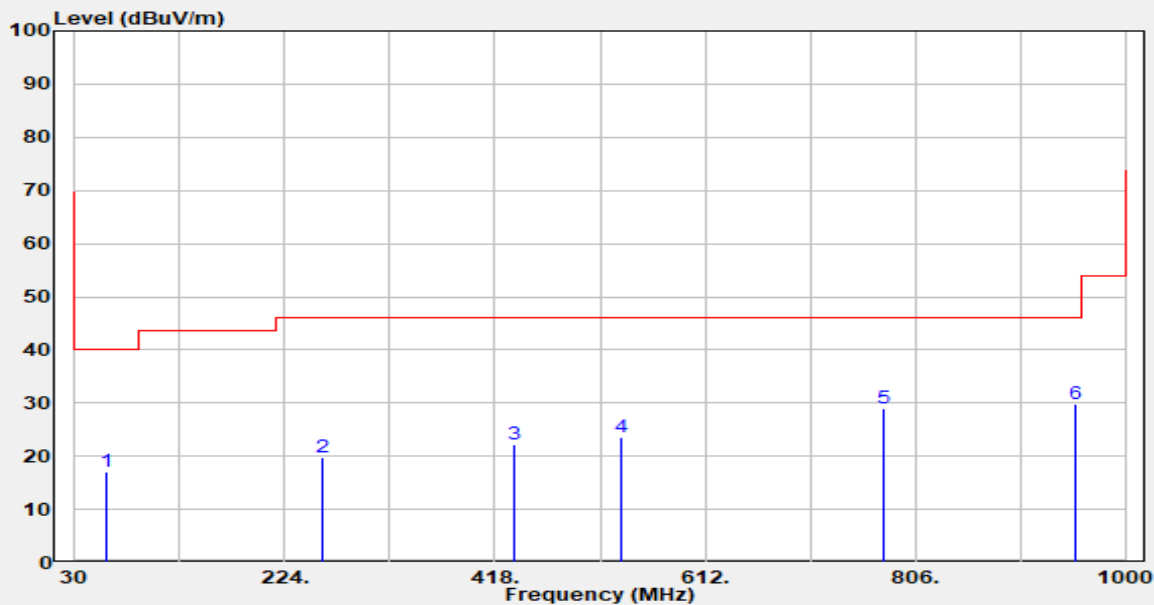
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
97.61	Peak	40.66	-22.19	18.47	43.50	-25.03
162.60	Peak	36.09	-16.54	19.55	43.50	-23.95
251.94	Peak	36.73	-17.88	18.85	46.00	-27.15
432.55	Peak	39.19	-12.58	26.61	46.00	-19.39
612.00	Peak	34.56	-9.02	25.54	46.00	-20.46
775.25	Peak	34.97	-6.38	28.59	46.00	-17.41

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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :923 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
59.68	Peak	35.10	-17.91	17.19	40.00	-22.81
258.34	Peak	37.37	-17.66	19.71	46.00	-26.29
436.53	Peak	34.68	-12.45	22.23	46.00	-23.77
535.08	Peak	34.64	-11.11	23.53	46.00	-22.47
776.90	Peak	35.31	-6.37	28.94	46.00	-17.06
954.12	Peak	34.03	-4.30	29.73	46.00	-16.27

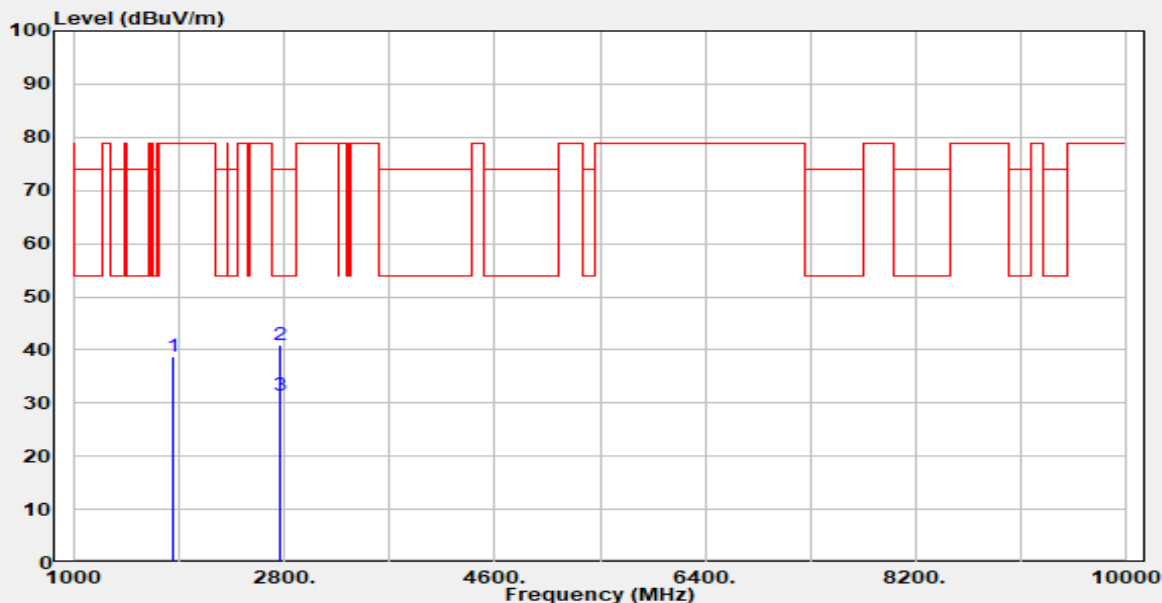
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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :919.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



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
1839.00	Peak	39.01	-0.15	38.86	78.92	-40.06
2758.50	Peak	36.99	3.99	40.98	74.00	-33.02
2758.50	Average	27.54	3.99	31.53	54.00	-22.47

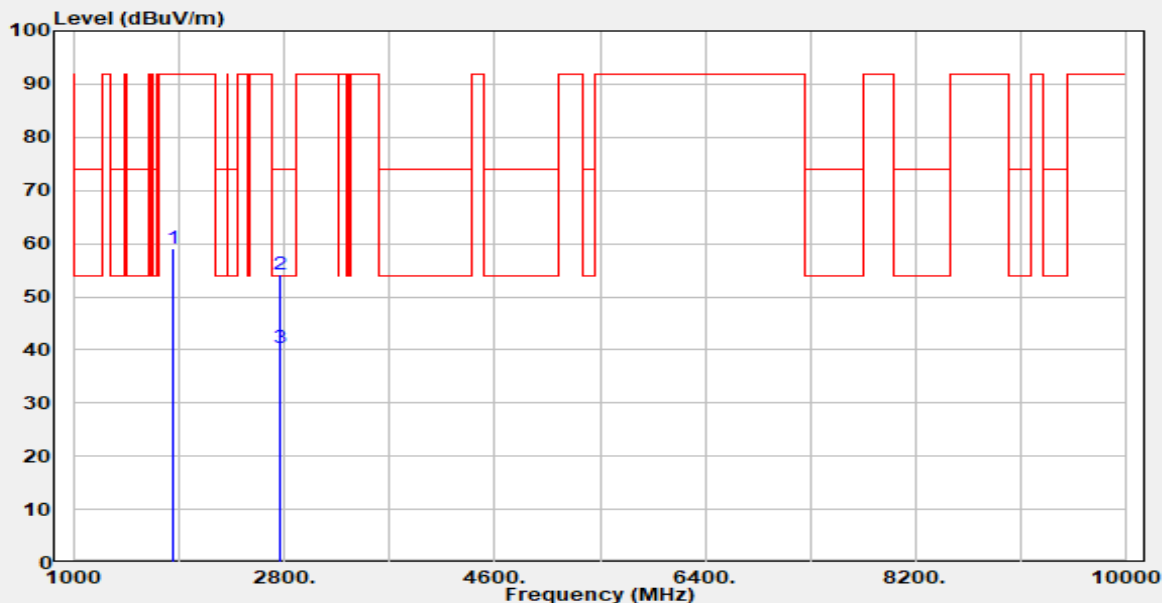
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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :919.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-12
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



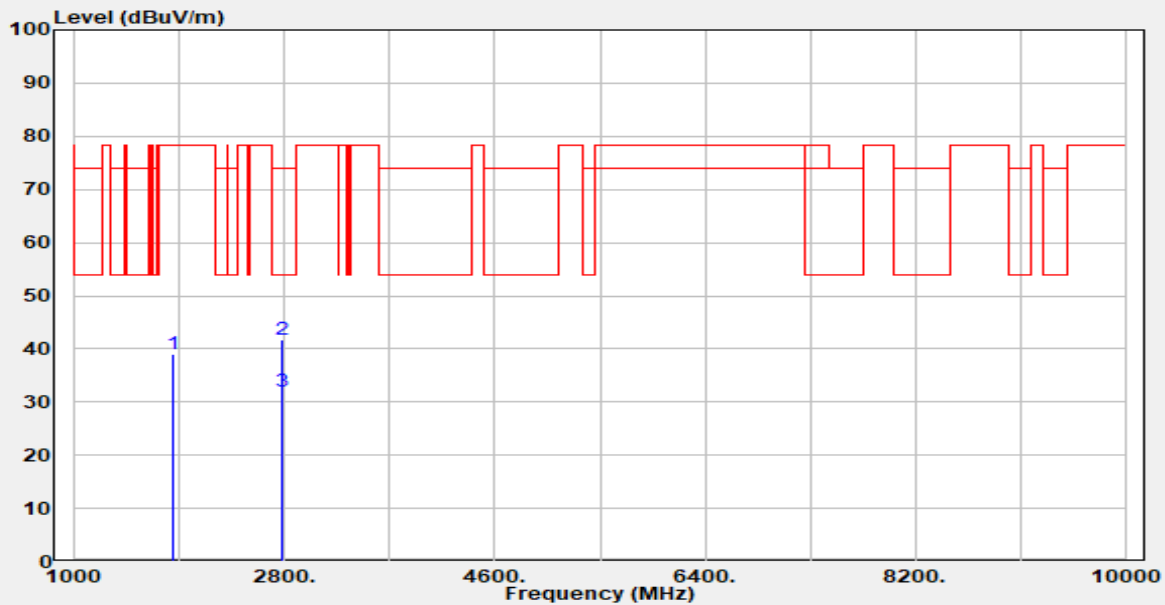
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1839.00	Peak	59.27	-0.15	59.12	91.84	-32.72
2758.50	Peak	50.20	3.99	54.19	74.00	-19.81
2758.50	Average	36.46	3.99	40.45	54.00	-13.55

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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :923.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



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
1847.00	Peak	39.13	-0.04	39.09	78.43	-39.34
2770.50	Peak	37.64	4.11	41.75	74.00	-32.25
2770.50	Average	27.78	4.11	31.89	54.00	-22.11

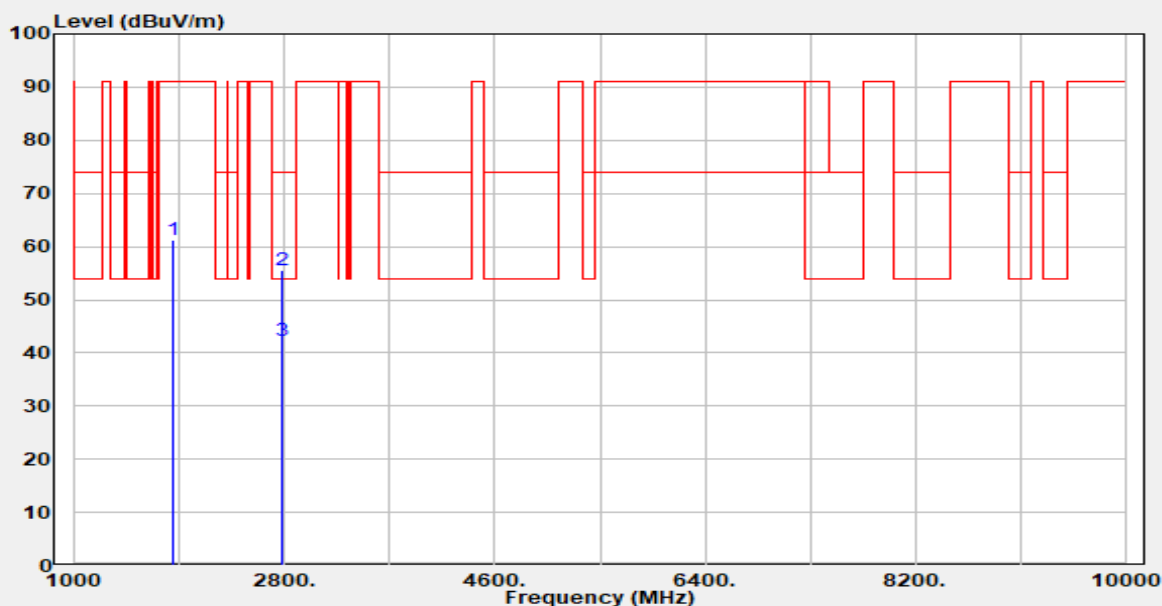
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Report Number :TERF2503001511E2
 Operation Mode :OFDM1M
 Test Frequency :923.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-12
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



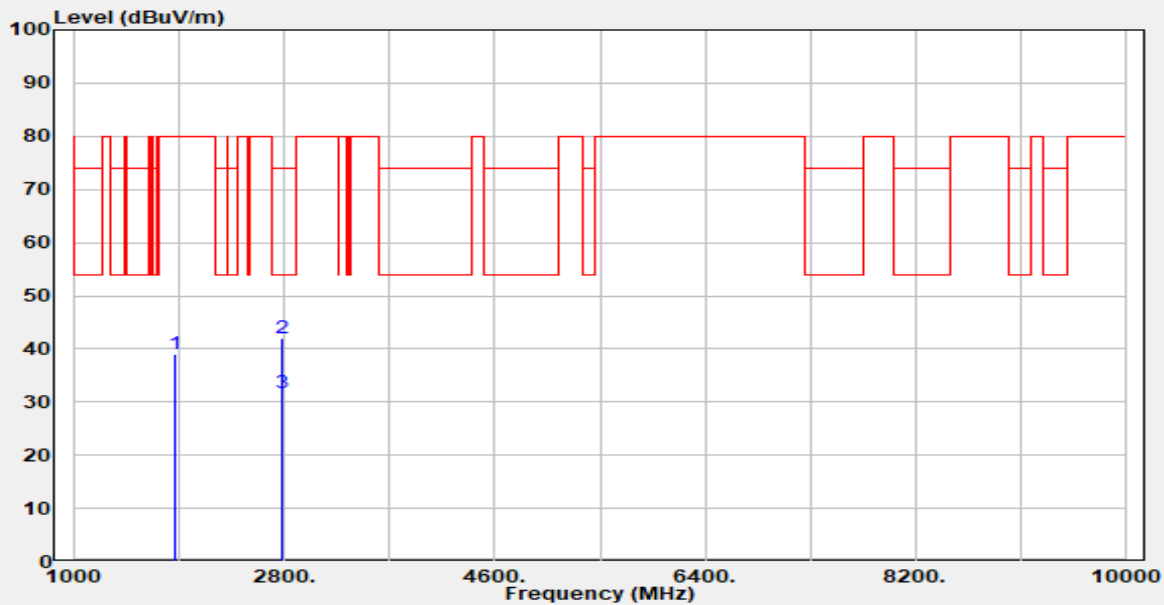
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1847.00	Peak	61.33	-0.04	61.29	91.04	-29.75
2770.50	Peak	51.45	4.11	55.56	74.00	-18.44
2770.50	Average	38.23	4.11	42.34	54.00	-11.66

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 Operation Mode :OFDM1M
 Test Frequency :926.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



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
1853.00	Peak	38.89	0.01	38.90	79.89	-40.99
2779.50	Peak	37.73	4.22	41.95	74.00	-32.05
2779.50	Average	27.59	4.22	31.81	54.00	-22.19

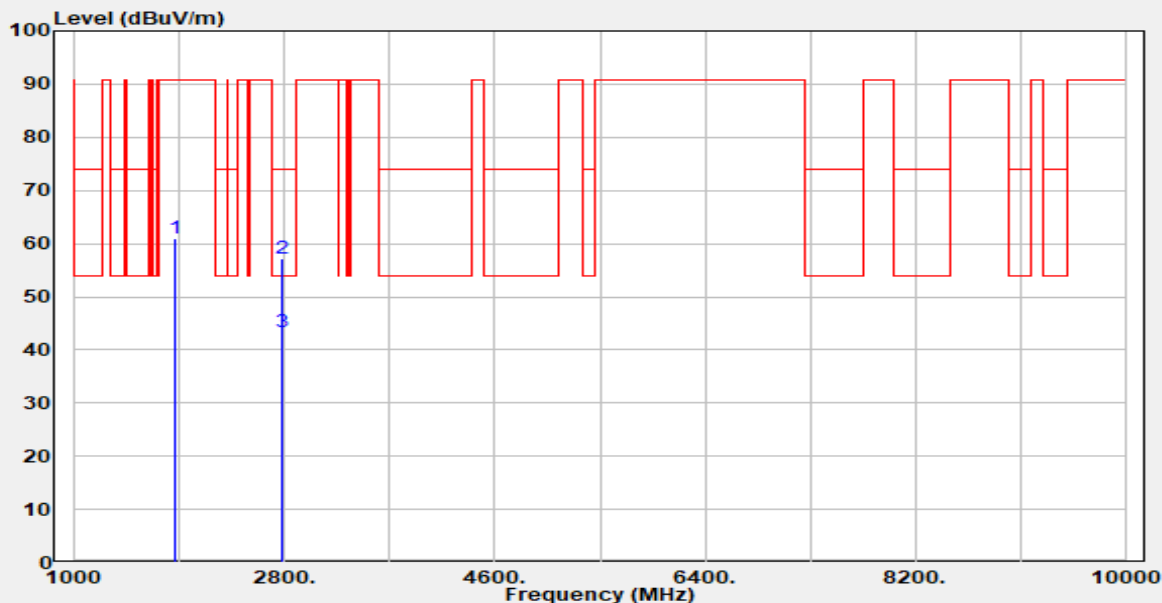
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 Test Frequency :926.5 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-12
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
1853.00	Peak	60.85	0.01	60.86	90.91	-30.05
2779.50	Peak	52.89	4.22	57.11	74.00	-16.89
2779.50	Average	39.07	4.22	43.29	54.00	-10.71

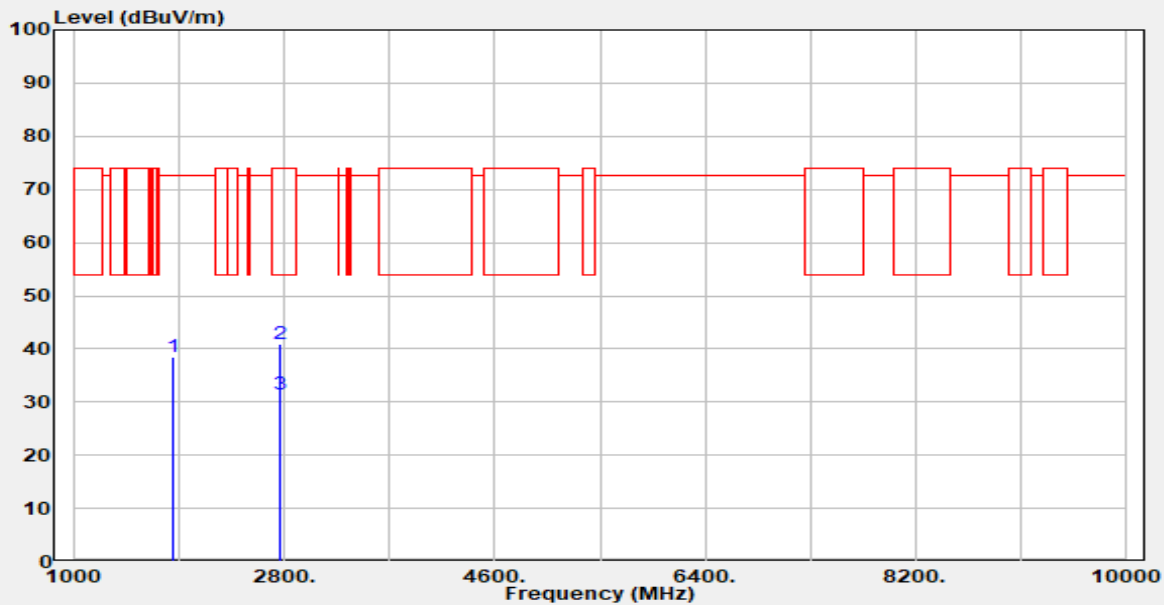
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Report Number :TERF2503001511E2
Operation Mode :OFDM2M
Test Frequency :919 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-18
Temp./Humi. :20.3°C/60%
Antenna Pol. :Vertical
Engineer :Temo Chen



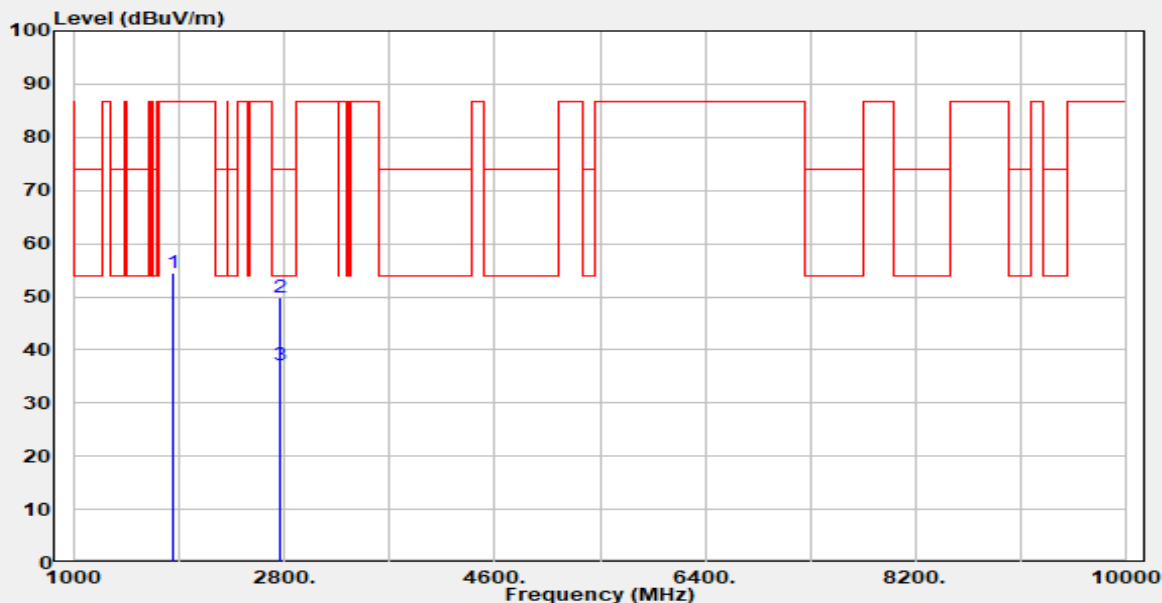
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1838.00	Peak	38.77	-0.16	38.61	72.68	-34.07
2757.00	Peak	36.85	3.96	40.81	74.00	-33.19
2757.00	Average	27.38	3.96	31.34	54.00	-22.66

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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :919 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-12
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
1838.00	Peak	54.54	-0.16	54.38	86.84	-32.46
2757.00	Peak	46.04	3.96	50.00	74.00	-24.00
2757.00	Average	33.13	3.96	37.09	54.00	-16.91

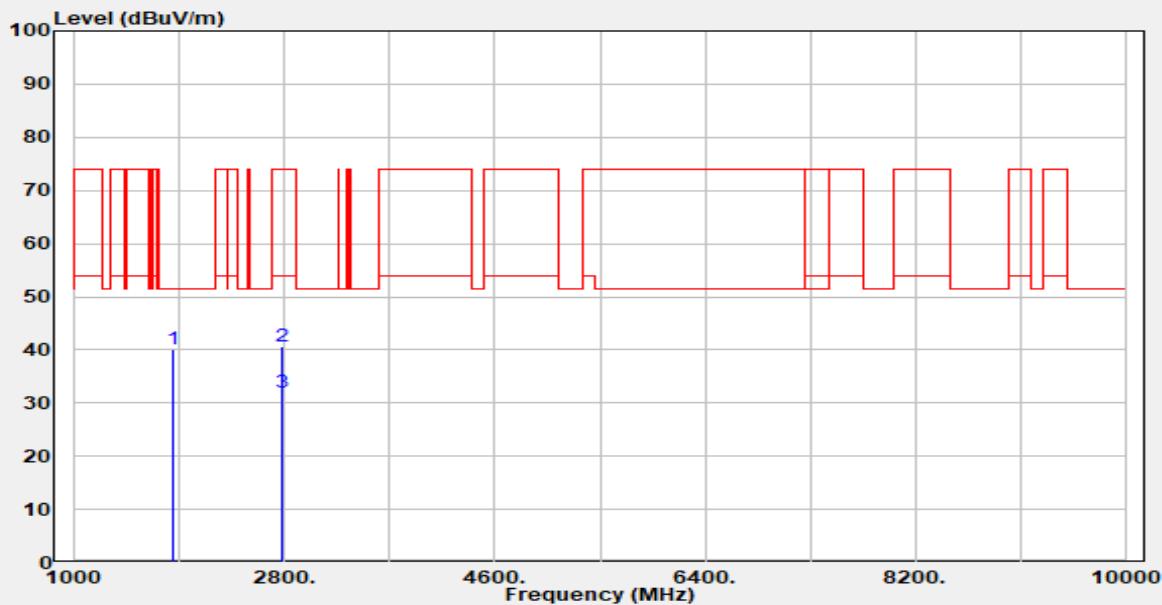
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Report Number :TERF2503001511E2
Operation Mode :OFDM2M
Test Frequency :923 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-18
Temp./Humi. :20.3°C/60%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
1846.00	Peak	40.14	-0.06	40.08	51.43	-11.35
2769.00	Peak	36.67	4.10	40.77	74.00	-33.23
2769.00	Average	27.85	4.10	31.95	54.00	-22.05

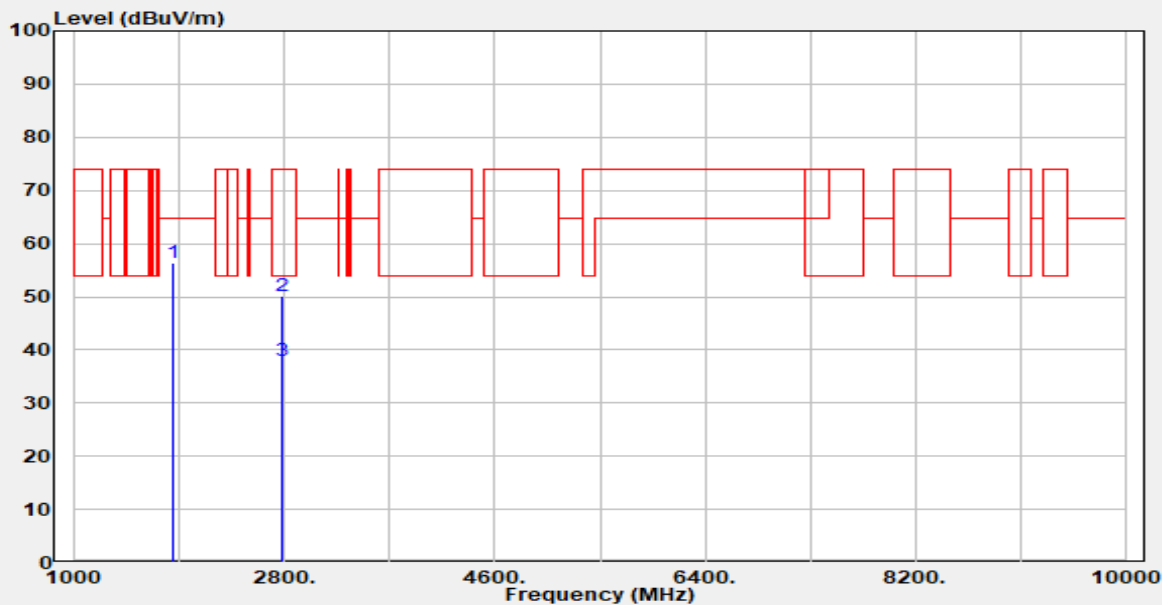
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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :923 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-12
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
1846.00	Peak	56.30	-0.06	56.24	64.69	-8.45
2769.00	Peak	46.13	4.10	50.23	74.00	-23.77
2769.00	Average	33.85	4.10	37.95	54.00	-16.05

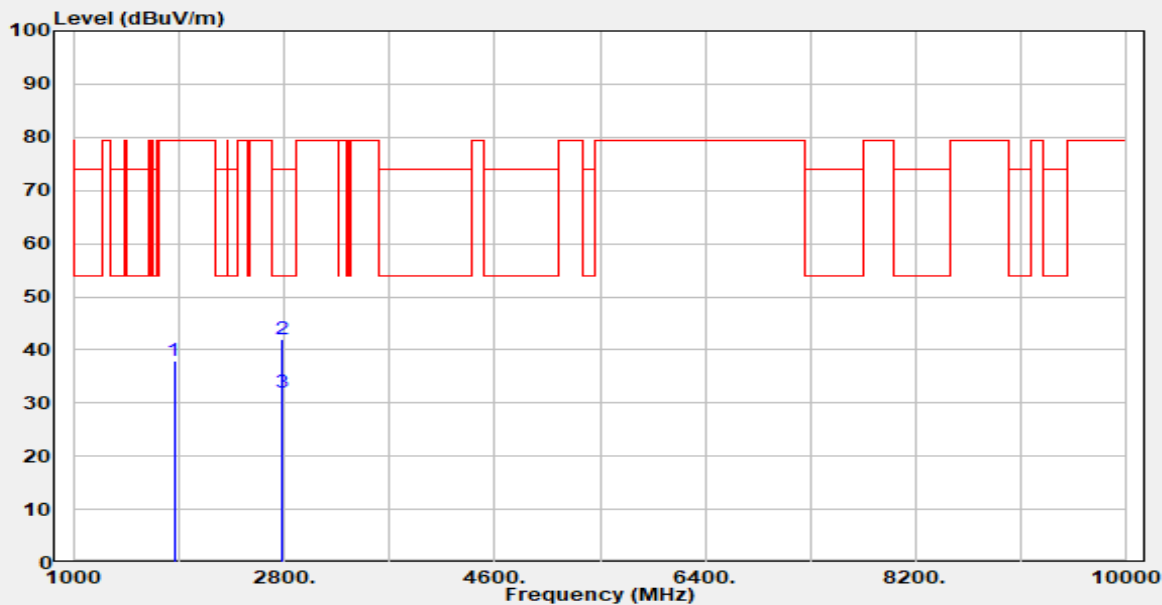
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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :925 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



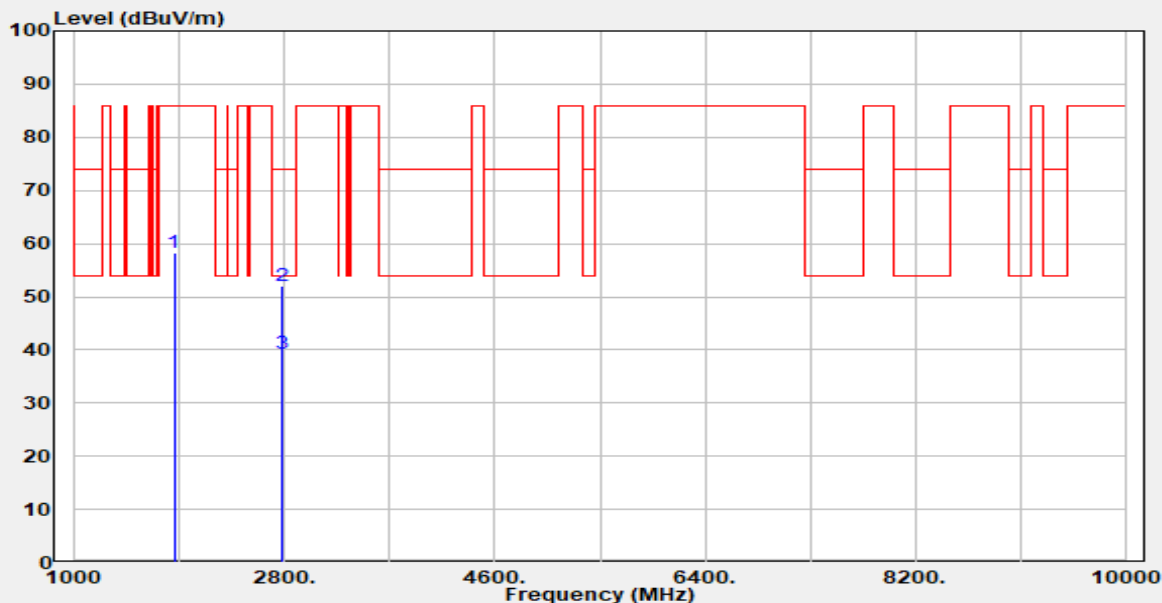
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1850.00	Peak	37.93	0.00	37.93	79.48	-41.55
2775.00	Peak	37.92	4.17	42.09	74.00	-31.91
2775.00	Average	27.71	4.17	31.88	54.00	-22.12

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Report Number :TERF2503001511E2
 Operation Mode :OFDM2M
 Test Frequency :925 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-12
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
1850.00	Peak	58.21	0.00	58.21	85.81	-27.60
2775.00	Peak	47.78	4.17	51.95	74.00	-22.05
2775.00	Average	35.12	4.17	39.29	54.00	-14.71

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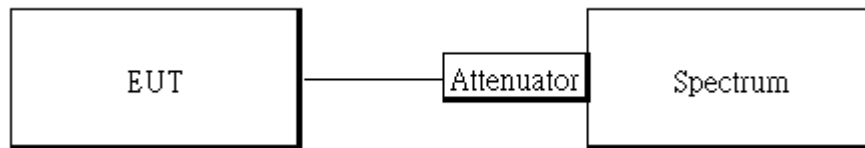
12 POWER SPECTRAL DENSITY

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 & 2M Detector = peak
6. Sweep time = auto couple.
7. Set Trace mode = 1M & 2M trace mode = average
4M & 8M 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:

Power Spectral Density

OFDM 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
919.5	3.18	8	PASS
923.5	3.10	8	PASS
926.5	3.24	8	PASS

***Note:**

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

OFDM 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
919	-2.96	8	PASS
923	-2.97	8	PASS
925	-3.04	8	PASS

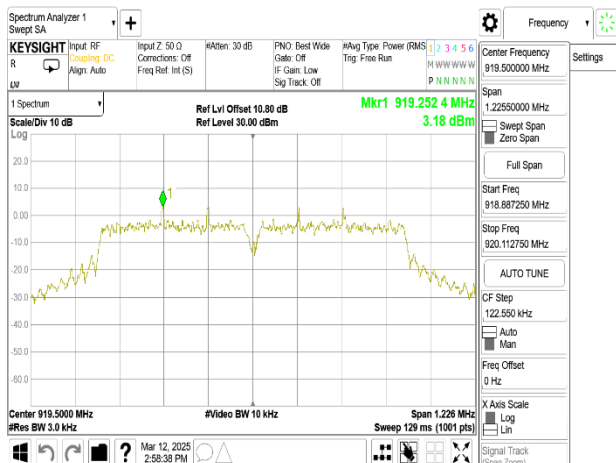
***Note:**

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

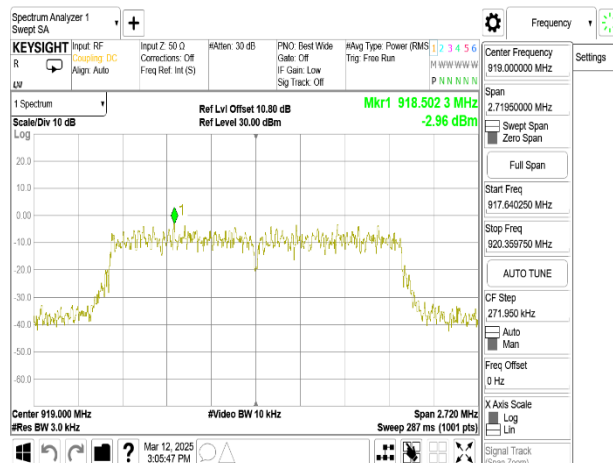
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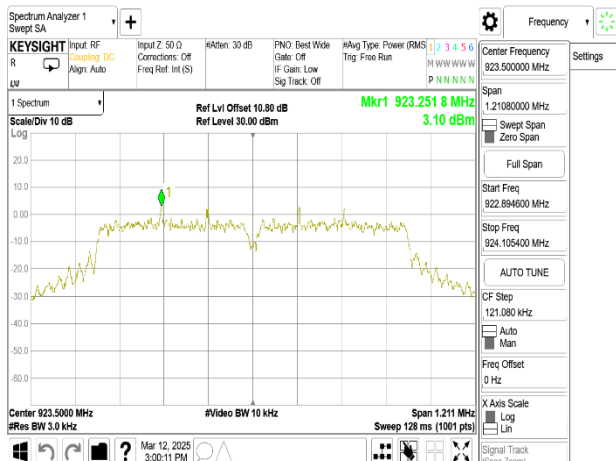
PSD_OFDM 1M_LowCH-919.5MHz



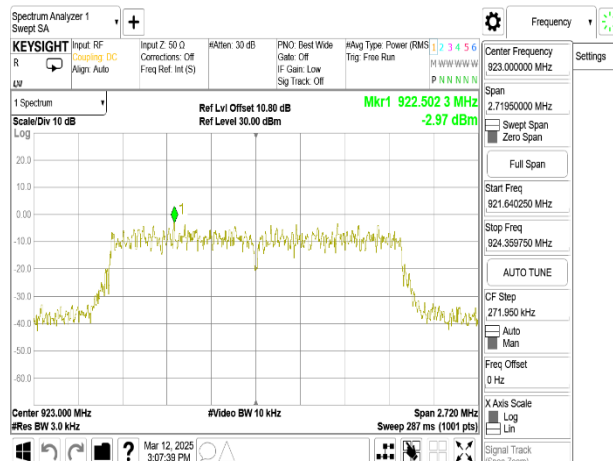
PSD_OFDM 2M_LowCH-919MHz



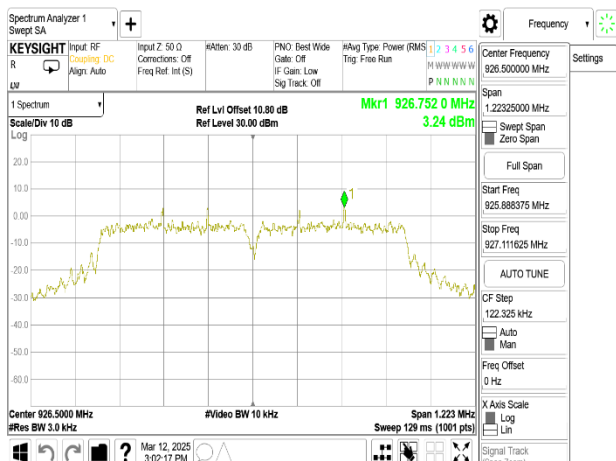
PSD_OFDM 1M_MidCH-923.5MHz



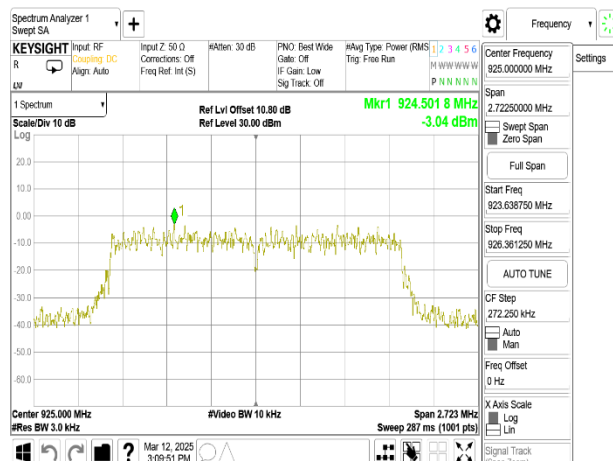
PSD_OFDM 2M_MidCH-923MHz



PSD_OFDM 1M_HighCH-926.5MHz



PSD_OFDM 2M_HighCH-925MHz



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

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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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