

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: iFLYTEK AI Recorder P1 Pro
Applicant: SYNLAN TECHNOLOGY PTE. LTD.
7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE
SINGAPORE (038987)
Manufacturer: SYNLAN TECHNOLOGY PTE. LTD.
7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE
SINGAPORE (038987)
Brand Name: iFLYTEK
Model No.: AIR2521
Report Number: TERF2506002143ER
FCC ID 2BH7A-AIR2521
Date of EUT Received: June 19, 2025
Date of Test: June 26, 2025 ~ July 11, 2025
Issue Date: December 24, 2025

Approved By

Paul Chiang

Paul Chiang

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 C63.10:2020 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
TERF2506002143ER	00	Original	November 7, 2025	Susan Lin	
TERF2506002143ER	01	Update section 9.4	December 24, 2025	Susan Lin	*

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:	iFLYTEK AI Recorder P1 Pro
Brand Name:	iFLYTEK
Model No.:	AIR2521
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	SH_SP_20250522717
Power Supply:	3.87 Vdc from Rechargeable Li-ion Battery 5 Vdc from USB Port
Test Software (Name/Version):	AmebaDPlus_mptool 1V8

1.2 RF Specification

WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	20.46	17.95	DSSS
802.11g	2412~2462	11	24.01	14.93	OFDM
802.11n_HT20	2412~2462	11	23.17	13.90	OFDM
Modulation type:		CCK,DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n			
Data Rate:		802.11b: 1/2/5.5/11 Mbps			
		802.11g: 6/9/12/18/24/36/48/54 Mbps			
		802.11n_HT20:up to 72.2Mbps			

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	2412~2462	-1.87

Note:

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

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2020.

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.

Temperature:	59-75	°C	Relative Humidity:	22-24	%
Test site	Conducted 2		Test Start:	07/04/2025	
Test Engineer:	Dannis Chen		Test Done:	07/11/2025	

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

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

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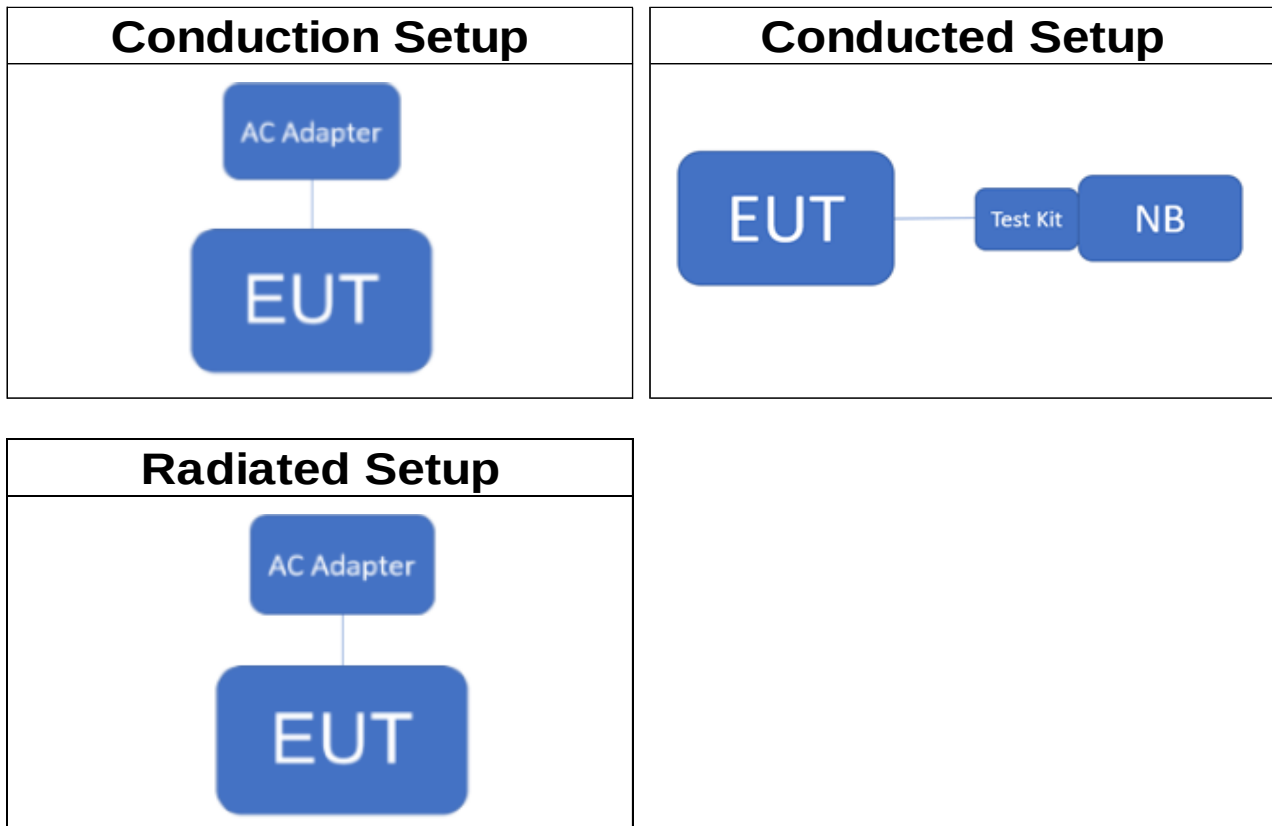
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Jiangxi Jian Aohai Technology Co., Ltd.	SR-02A	N/A	N/A	N/A
USB Cable	Guangdong minggi Hi-tech Electronics Co.,Ltd	A TO C	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A
USB Cable	Guangdong minggi Hi-tech Electronics Co.,Ltd+	A TO C	N/A	N/A	N/A
Test Kit	kuongshun	CH340G	N/A	N/A	N/A

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Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Jiangxi Jian Aohai Technology Co., Ltd.	SR-02A	N/A	N/A	N/A
Type-C to USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	N
§15.247(b) (3)	Peak Output Power	Compliant	
§15.247(a)(2)	Emission Bandwidth	Compliant	
§15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant	
§15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant	
§15.205	Restricted Bands	Compliant	
§15.247(e)	Power Spectral Density	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2506002137ER.

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

2400~2483.5 MHz	
20MHz	
CH	Freq. (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

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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.

Mode		Transmission Chain								Single Transmission Spatial		Multi Transmission Spatial	
V	802.11 b	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
V	802.11 g	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
V	802.11 n	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX		1TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX		1TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	Ch0
802.11g	1 to 11	1,6,11	OFDM	6	Ch0
802.11n_HT20	1 to 11	1,6,11	OFDM	MCS0	Ch0

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	ch0

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch0
802.11g	1 to 11	1,6,11	OFDM	6	ch0
802.11n_HT20	1 to 11	1,6,11	OFDM	MCS0	ch0

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2025	06/21/2026
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2025	06/21/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	1	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	10	12/11/2024	12/10/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/24/2025	06/23/2026
Power Meter	Anritsu	ML2496A	1804001	04/18/2025	04/17/2026
Power Sensor	Anritsu	MA2411B	1726104	04/18/2025	04/17/2026
Power Sensor	Anritsu	MA2411B	1726107	04/18/2025	04/17/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	24	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	Titan	T04N2400248350S 01	23040703-10	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	443	01/23/2025	01/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+15081 7)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A09469	08/30/2024	08/29/2025
Site Cal	SGS	SAC 1	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

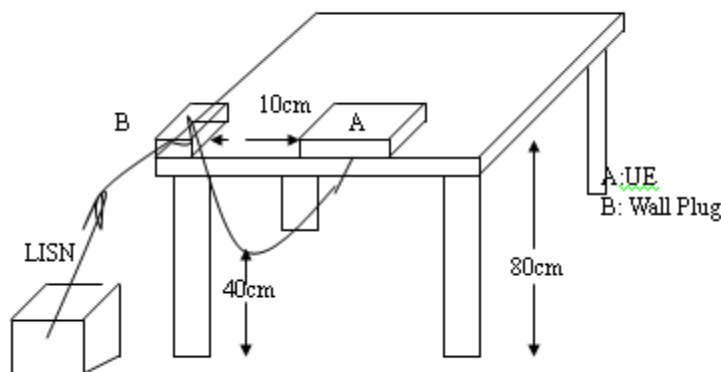
Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	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 C63.10:2020.
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

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2506002143ER

Test Site :Conduction 1

Operation Mode :WLAN2.4G

Test Date :2025-07-08

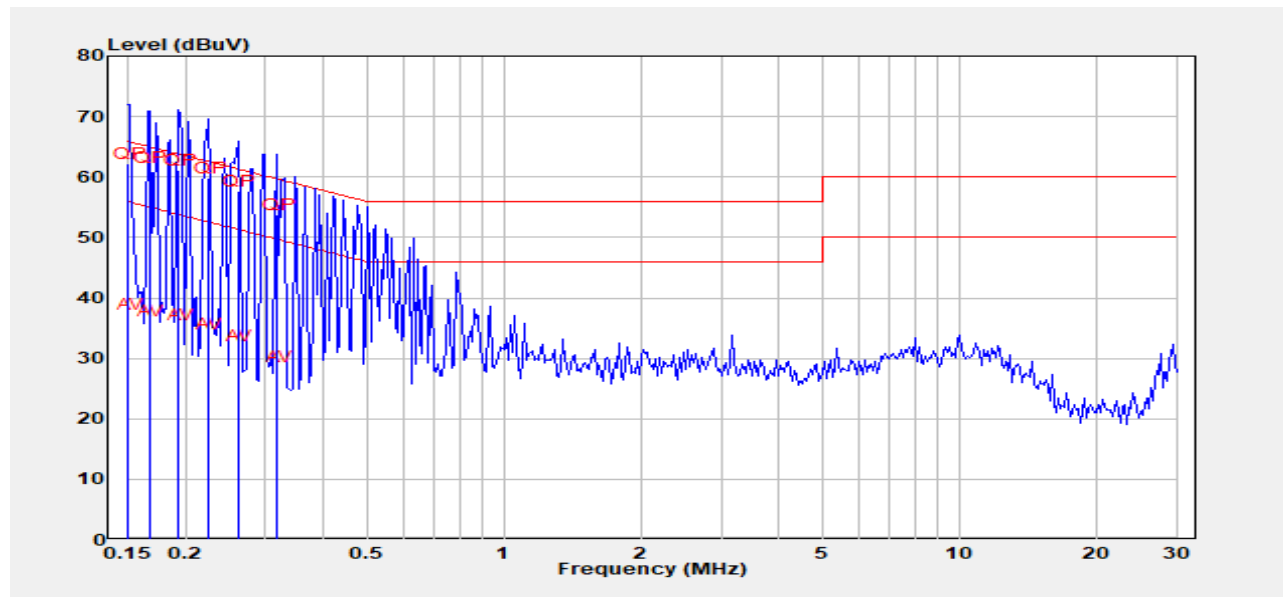
Power :120V/60Hz

Temp./Humi. :25.6°C/63%

Probe :L

Engineer :Dante Ding

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS				
MHz	PK/QP/AV	dBuV	dB	dBuV	dBuV	dB
0.150	Average	27.16	10.13	37.29	56.00	-18.71
0.150	QP	52.04	10.13	62.17	66.00	-3.83
0.167	Average	25.98	10.13	36.11	55.12	-19.01
0.167	QP	51.55	10.13	61.68	65.12	-3.44
0.193	Average	25.53	10.13	35.66	53.89	-18.23
0.193	QP	51.11	10.13	61.24	63.89	-2.65
0.224	Average	23.87	10.13	34.00	52.66	-18.65
0.224	QP	49.63	10.13	59.76	62.66	-2.89
0.260	Average	22.05	10.14	32.19	51.42	-19.24
0.260	QP	47.62	10.14	57.76	61.42	-3.67
0.318	Average	18.48	10.14	28.62	49.75	-21.13
0.318	QP	43.65	10.14	53.79	59.75	-5.96

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Report Number :TERF2506002143ER

Test Site :Conducttion 1

Operation Mode :WLAN2.4G

Test Date :2025-07-08

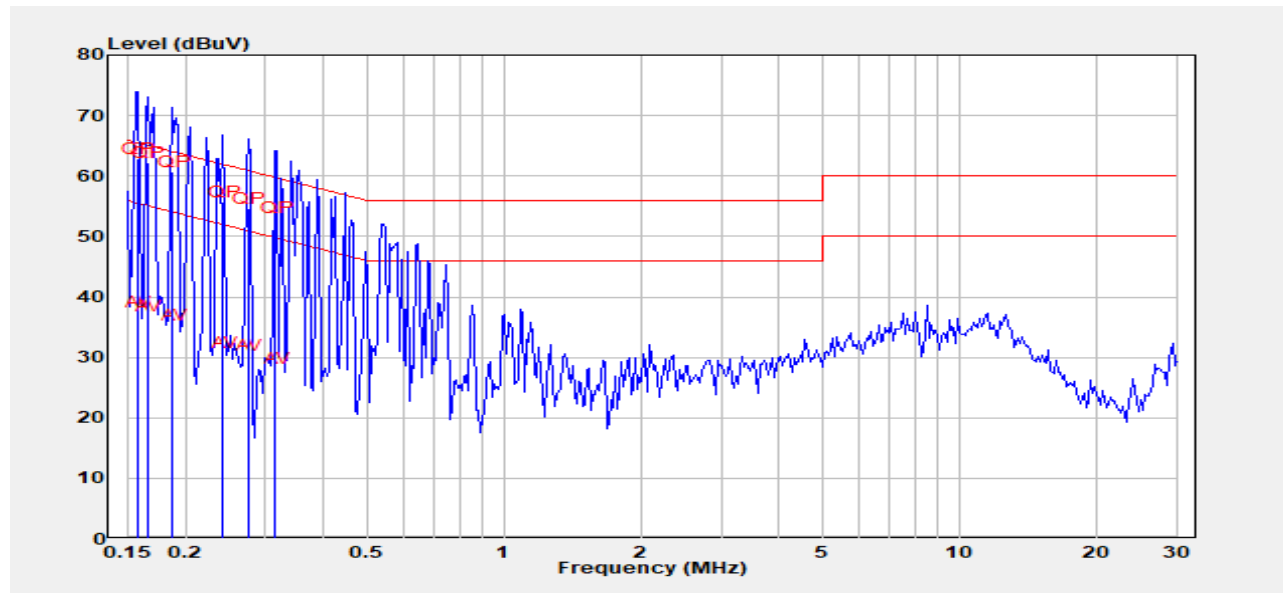
Power :120V/60Hz

Temp./Humi. :25.6°C/63%

Probe :N

Engineer :Dante Ding

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS				
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.156	Average	27.33	10.12	37.45	55.65	-18.20
0.156	QP	52.74	10.12	62.86	65.65	-2.79
0.165	Average	26.64	10.12	36.76	55.21	-18.45
0.165	QP	52.05	10.12	62.17	65.21	-3.04
0.187	Average	25.25	10.12	35.37	54.15	-18.78
0.187	QP	50.67	10.12	60.79	64.15	-3.36
0.242	Average	20.73	10.13	30.86	52.04	-21.18
0.242	QP	45.57	10.13	55.70	62.04	-6.34
0.274	Average	20.23	10.13	30.36	50.98	-20.62
0.274	QP	44.53	10.13	54.66	60.98	-6.32
0.315	Average	18.04	10.14	28.18	49.84	-21.66
0.315	QP	43.05	10.14	53.19	59.84	-6.65

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.1.2 FCC

For systems using digital modulation in the 2400-2483.5 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.

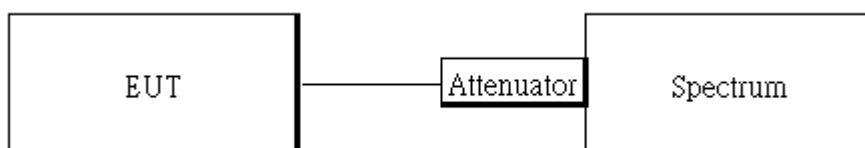
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

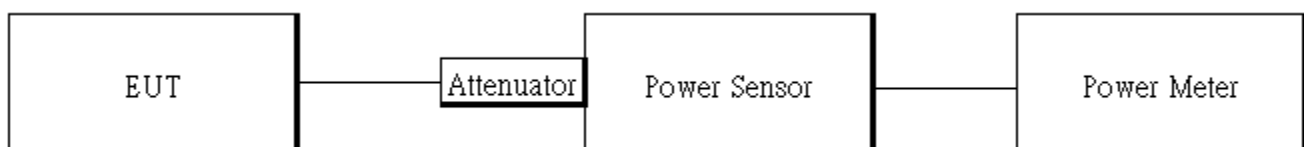
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

8.3.2 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.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

*** Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

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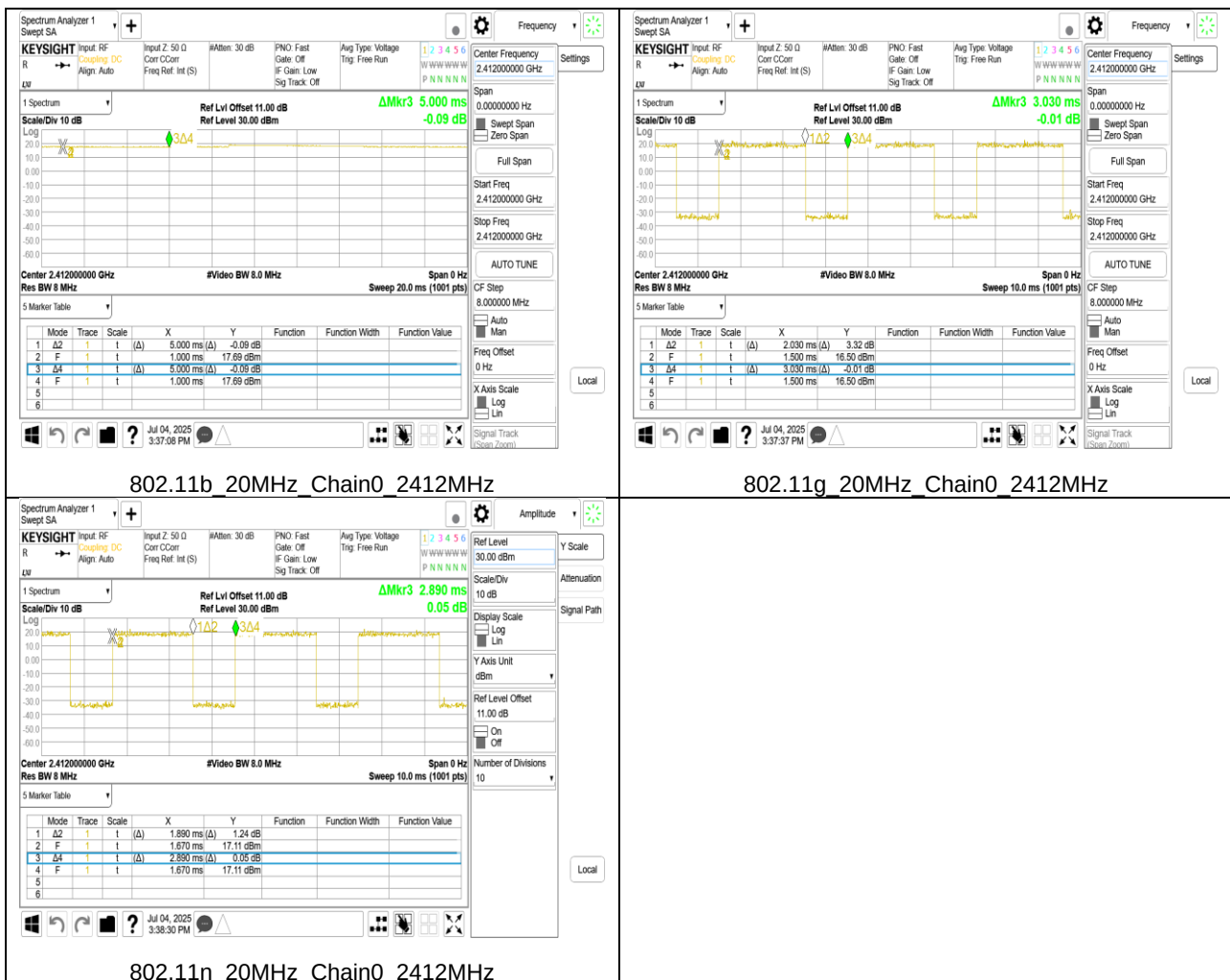
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8.4 Measurement Result

8.4.1 Duty Cycle:

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	100.00	0.00	0.00	0.01
802.11g	67.00	1.74	0.49	1.00
802.11n_20	65.40	1.84	0.53	1.00

8.4.2 Duty Cycle test plots



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8.4.3 Output Power

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	97	108.14	20.34	30.00	PASS
6	2437	1	101	111.17	20.46	30.00	PASS
11	2462	1	102	109.40	20.39	30.00	PASS

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	97	61.66	17.90	30.00	PASS
6	2437	1	101	62.37	17.95	30.00	PASS
11	2462	1	102	60.53	17.82	30.00	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	84	210.86	23.24	30.00	PASS
6	2437	6	88	251.77	24.01	30.00	PASS
11	2462	6	88	223.36	23.49	30.00	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	84	30.54	14.85	30.00	PASS
6	2437	6	88	30.90	14.90	30.00	PASS
11	2462	6	88	31.11	14.93	30.00	PASS

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802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	79	182.81	22.62	30.00	PASS
6	2437	MCS0	83	201.37	23.04	30.00	PASS
11	2462	MCS0	84	207.49	23.17	30.00	PASS

802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	79	23.47	13.70	30.00	PASS
6	2437	MCS0	83	24.46	13.88	30.00	PASS
11	2462	MCS0	84	24.57	13.90	30.00	PASS

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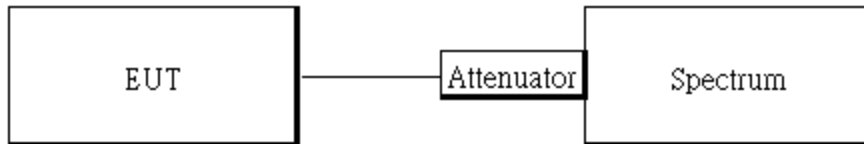
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9 EMISSION BANDWIDTH MEASUREMENT

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 ANSI C63.10.
2. Set the spectrum analyzer as
RBW= 1% to 5% of the OBW but not less than 100 kHz,
VBW $\geq 3 \times$ 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 $\geq 3 \times$ 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

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10100	≥ 500	PASS
2437	10100	≥ 500	PASS
2462	9676	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16400	≥ 500	PASS
2437	16430	≥ 500	PASS
2462	16460	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17570	≥ 500	PASS
2437	17680	≥ 500	PASS
2462	17560	≥ 500	PASS

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9.4.2 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	13.939
2437	13.886
2462	13.819

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.883
2437	16.912
2462	16.871

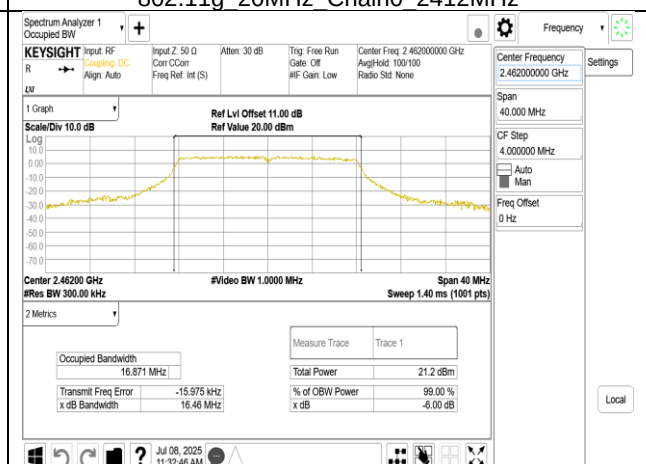
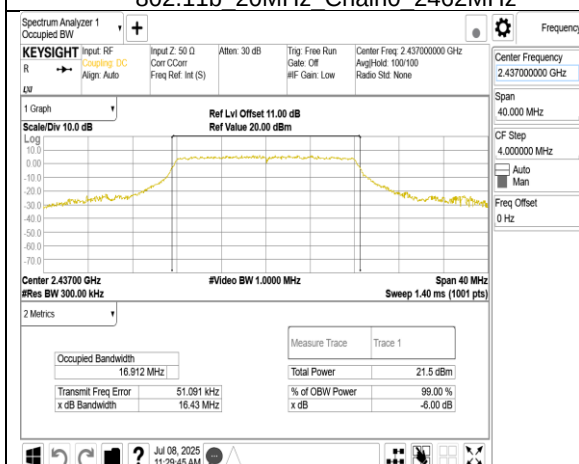
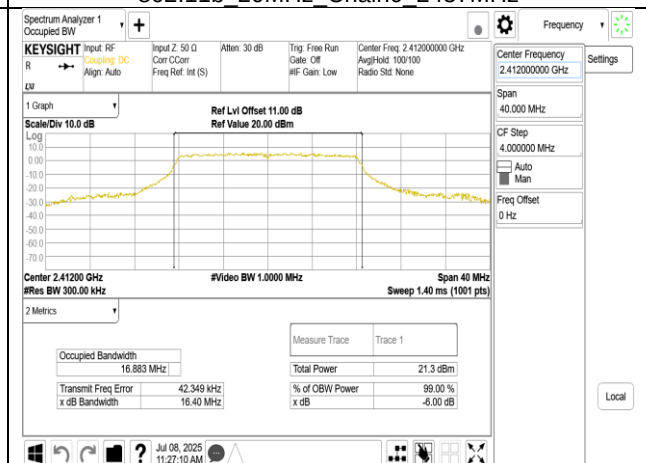
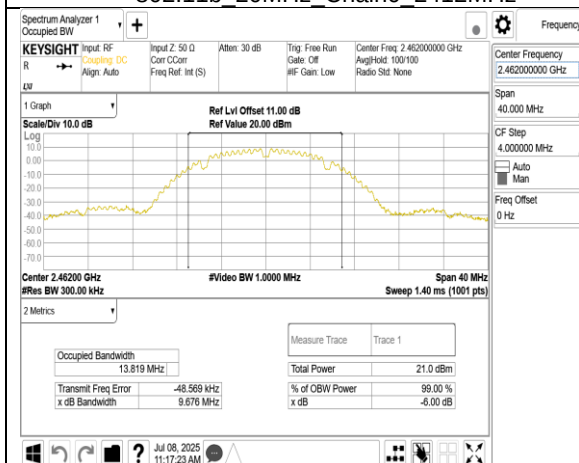
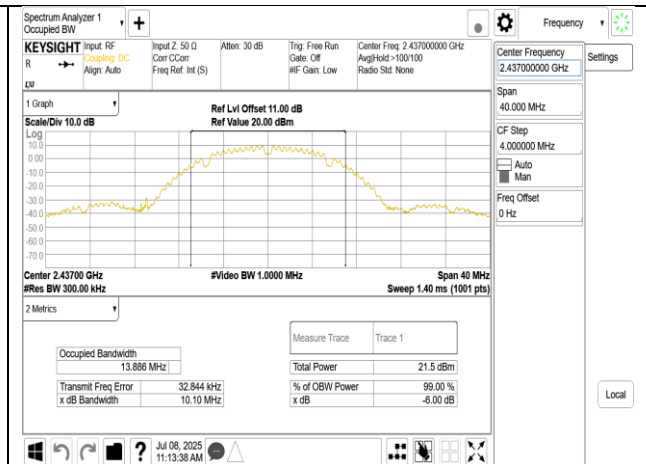
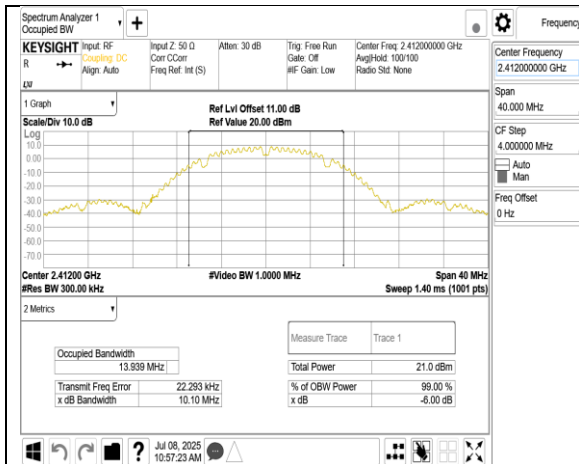
802.11n_HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	18.13
2437	18.146
2462	18.147

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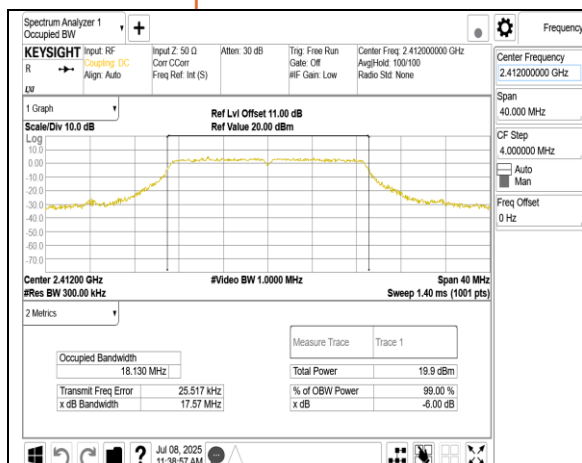
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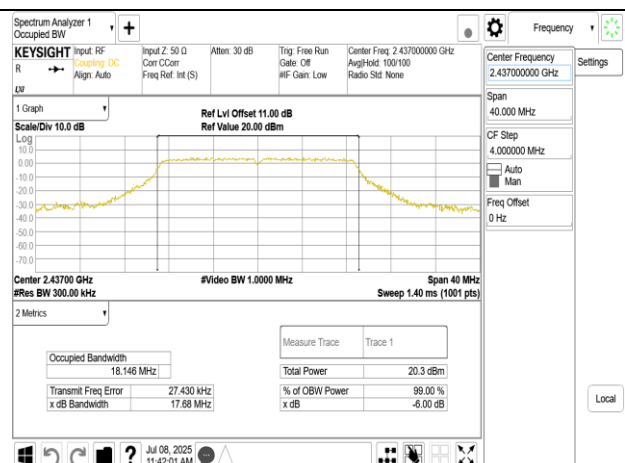
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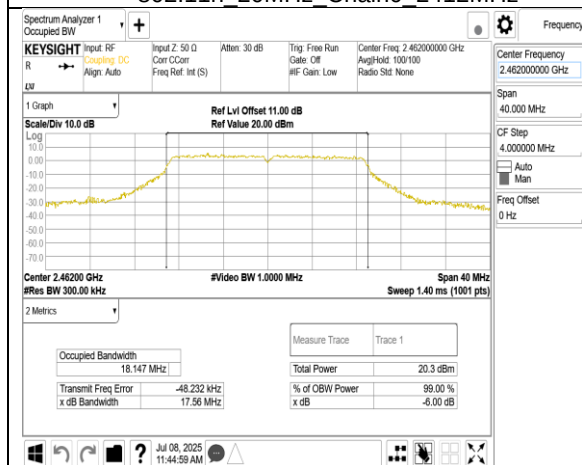
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802.11n 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain0 2462MHz

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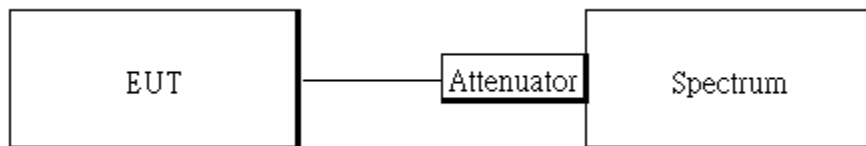
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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. 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. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement -20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

802.11b Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	8.62	-11.38
2437	9.21	-10.79
2462	8.89	-11.11

802.11g Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.20	-16.80
2437	3.61	-16.39
2462	3.53	-16.47

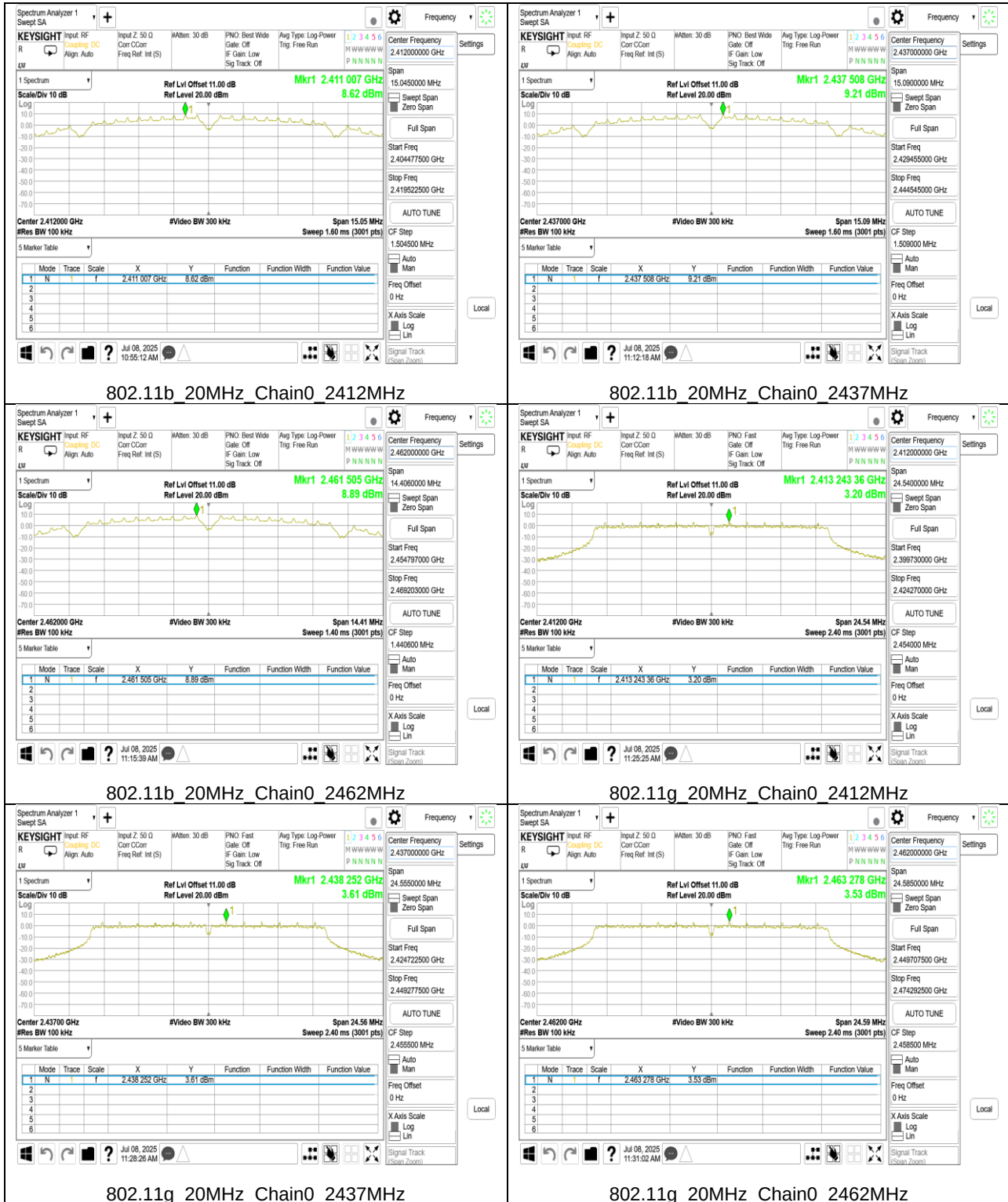
802.11n_HT_20M Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.44	-17.56
2437	2.68	-17.32
2462	2.75	-17.25

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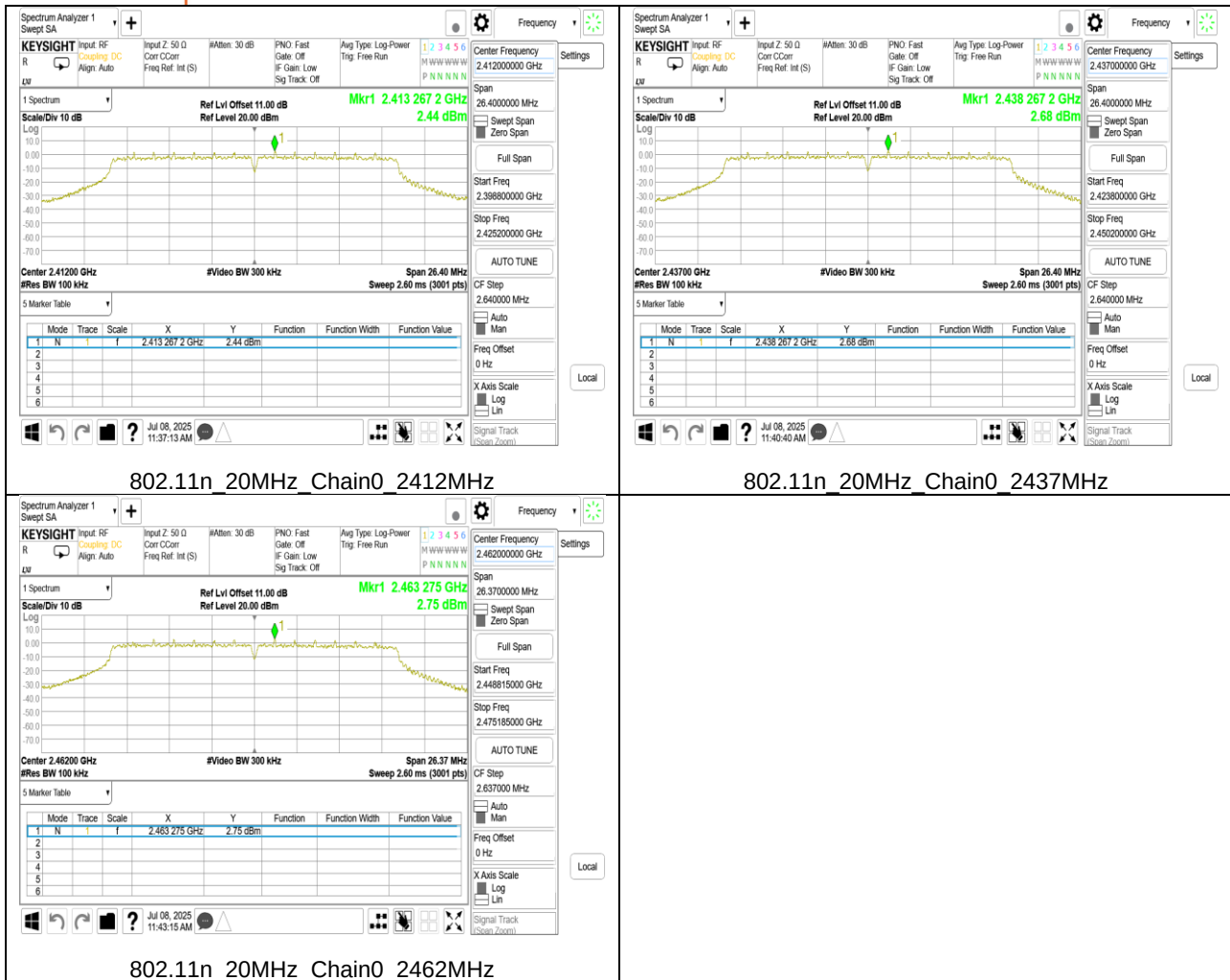
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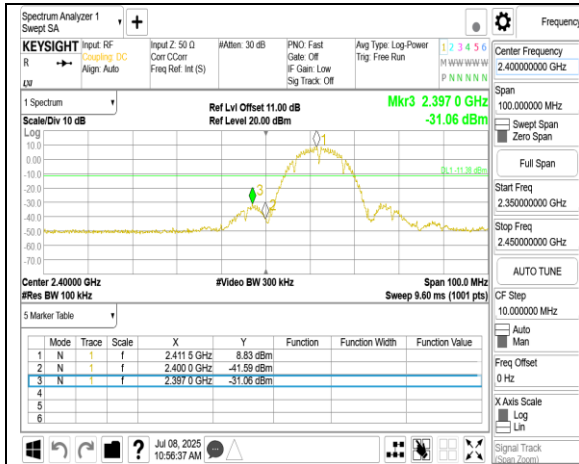
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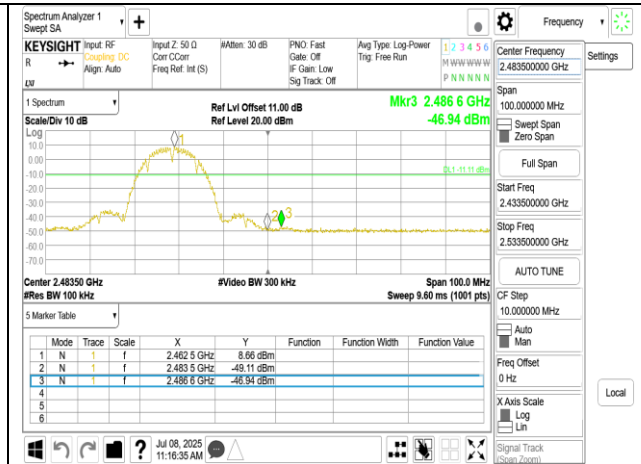
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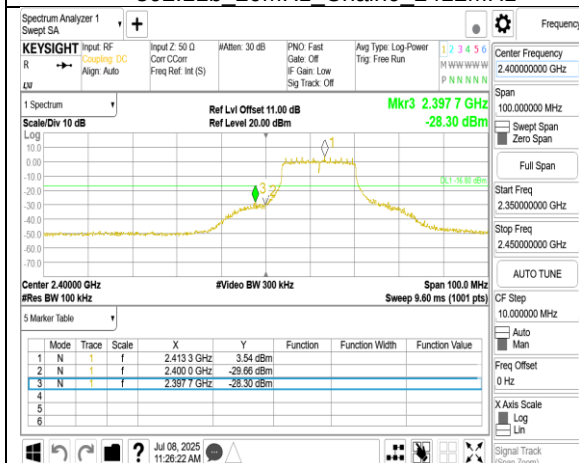
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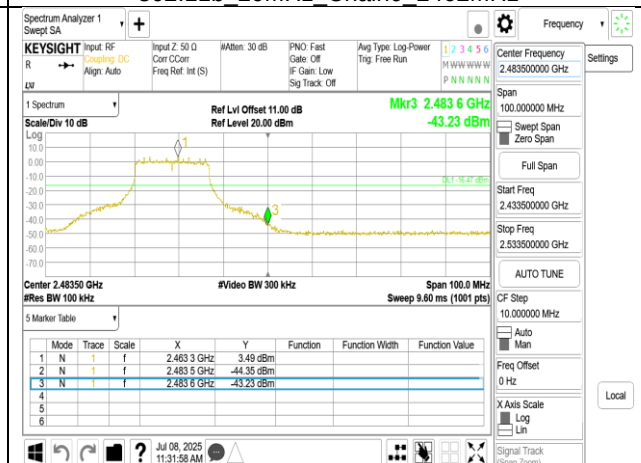
802.11b 20MHz Chain0 2412MHz



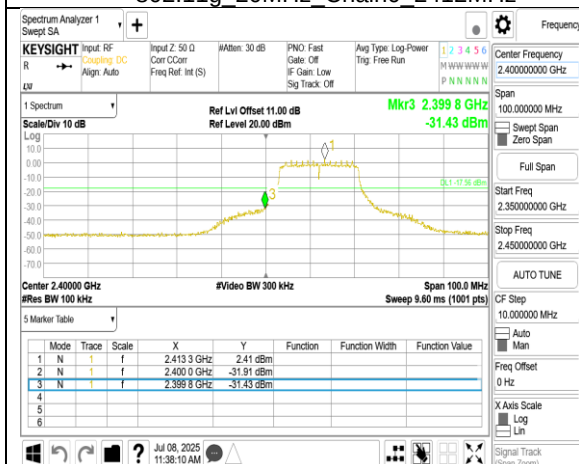
802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2462MHz



802.11n 20MHz Chain0 2412MHz

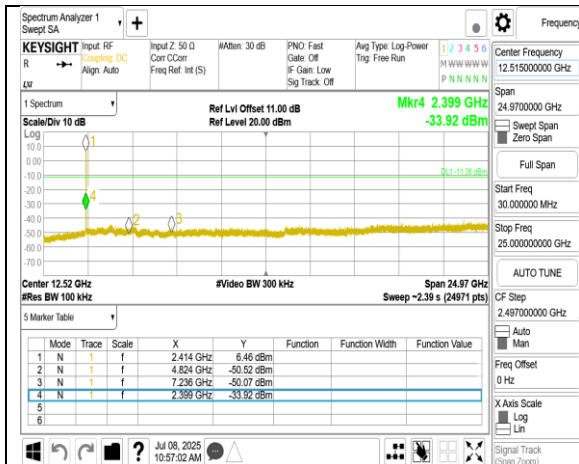


802.11n 20MHz Chain0 2462MHz

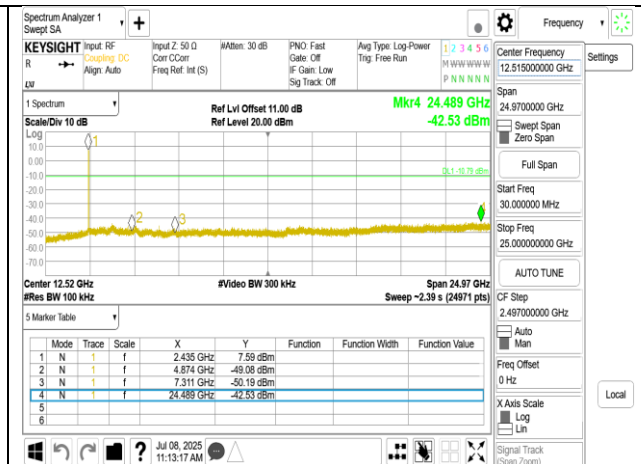
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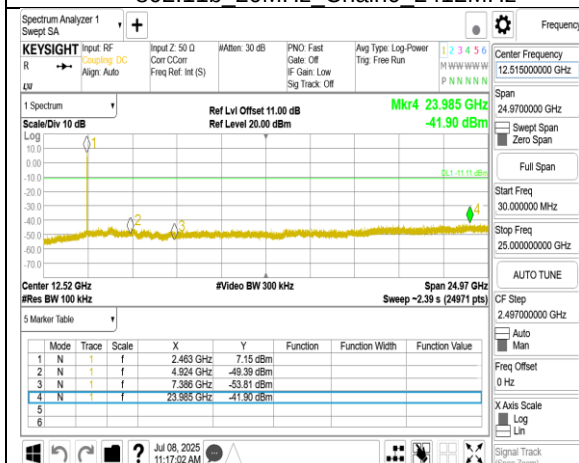
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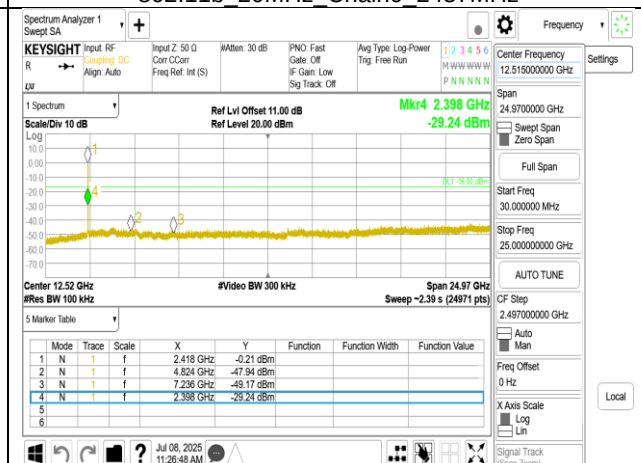
802.11b 20MHz Chain0 2412MHz



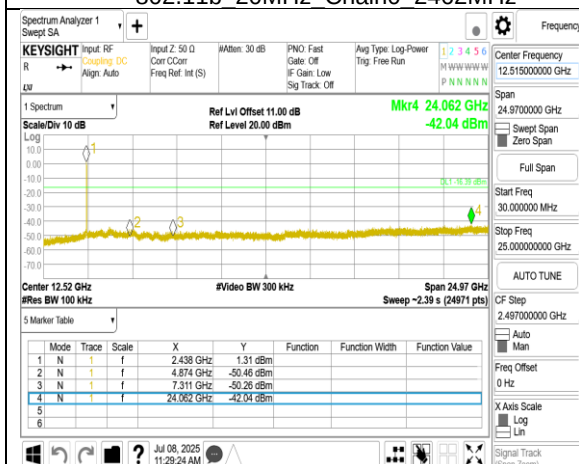
802.11b 20MHz Chain0 2437MHz



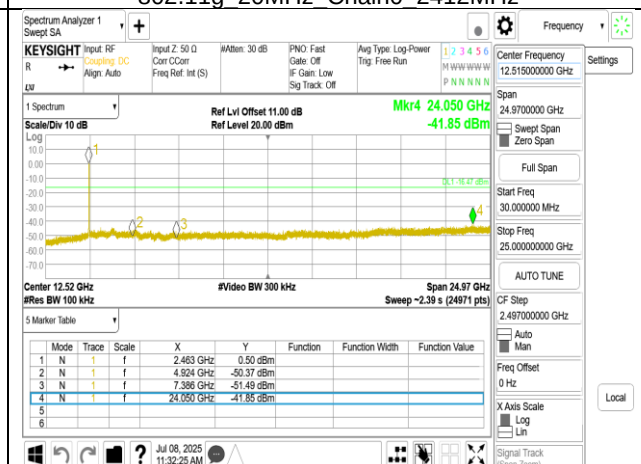
802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2437MHz

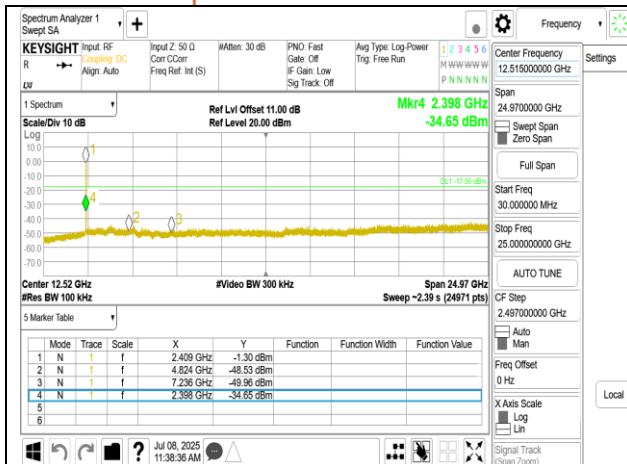


802.11g 20MHz Chain0 2462MHz

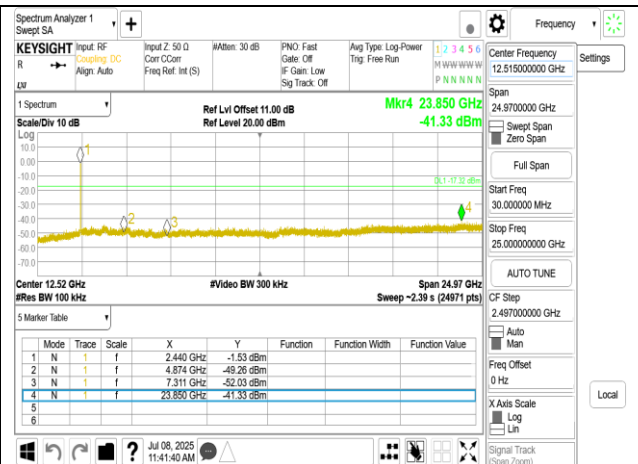
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802.11n 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain0 2462MHz

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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:

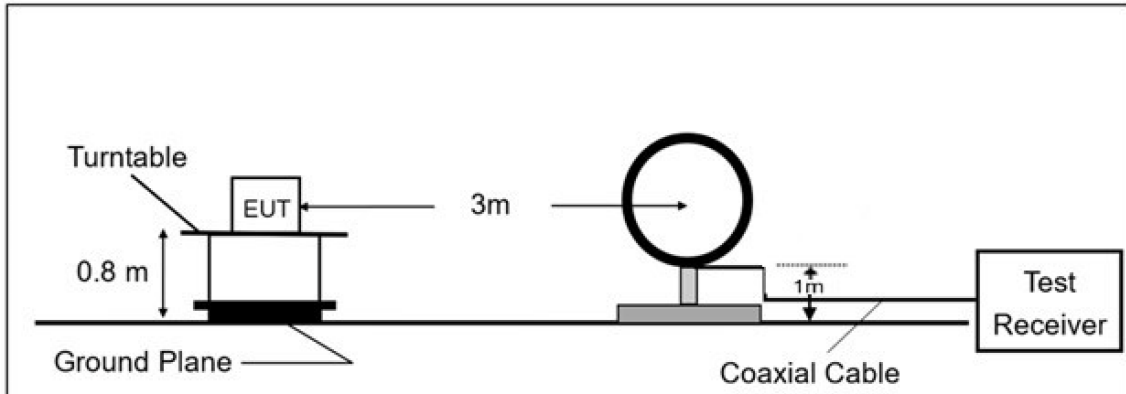
1. The lower limit shall apply at the transition frequencies.

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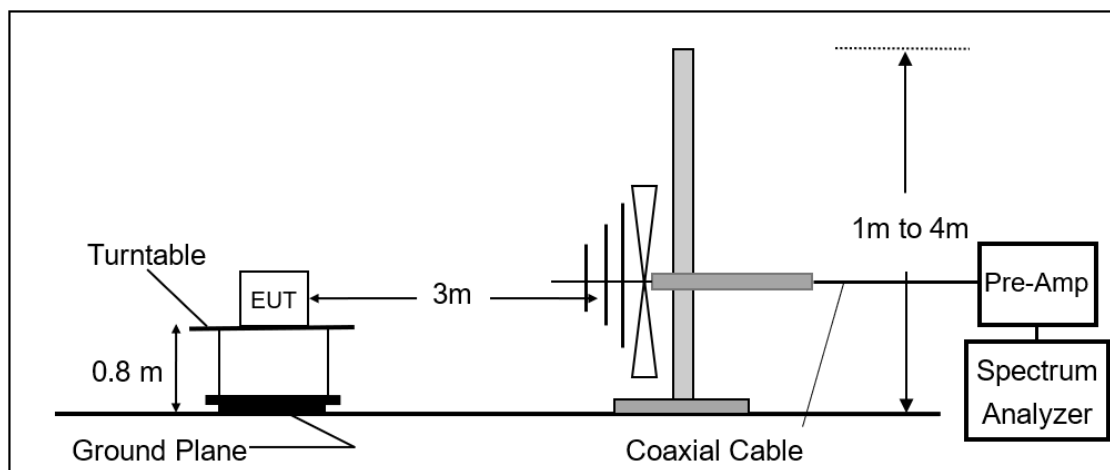
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11.2 Test Setup

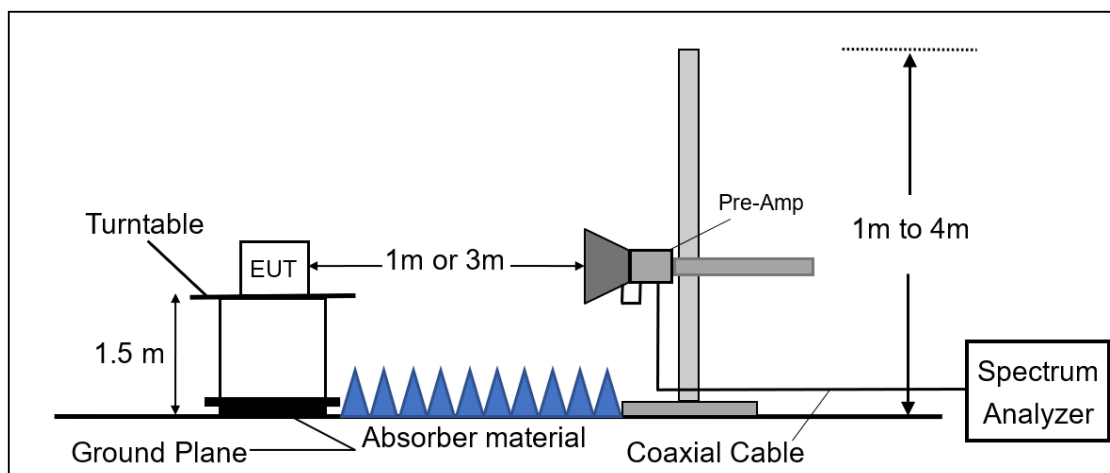
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz when $D \geq 98\%$. If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$ when $D < 98\%$ for Average Emission Measurements at frequency above 1 GHz.
10. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
13. Repeat above procedures until all default test channel measured were complete.

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:

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

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

Factor(dB) = Antenna Factor(dB/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:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

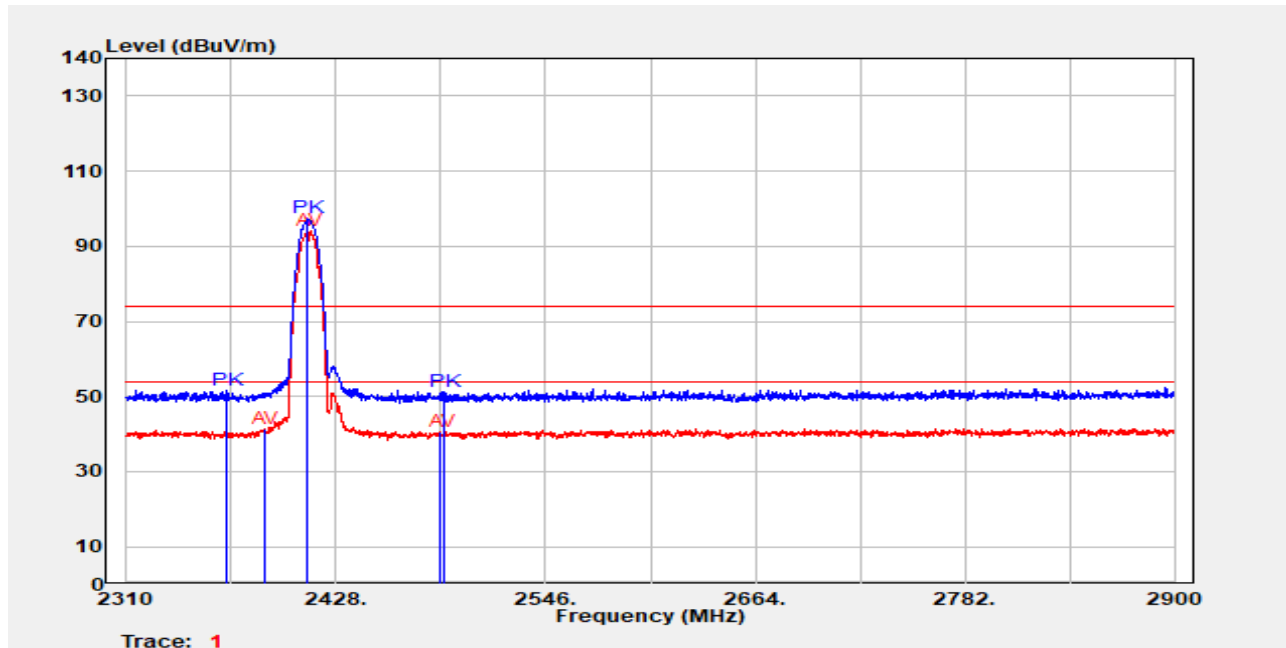
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11.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2506002137ER
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-04
Temp./Humi. :21.6°C/67%
Antenna Pol. :Vertical
Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2366.46	Peak	53.56	-1.92	51.64	74.00	-22.36
2387.91	Average	43.34	-1.91	41.43	54.00	-12.57
2411.91	Average	95.95	-2.04	93.91	-	-
2411.91	Peak	99.53	-2.04	97.49	-	-
2486.67	Average	42.48	-1.96	40.52	54.00	-13.48
2488.24	Peak	53.15	-1.96	51.19	74.00	-22.81

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台灣檢驗科技股份有限公司

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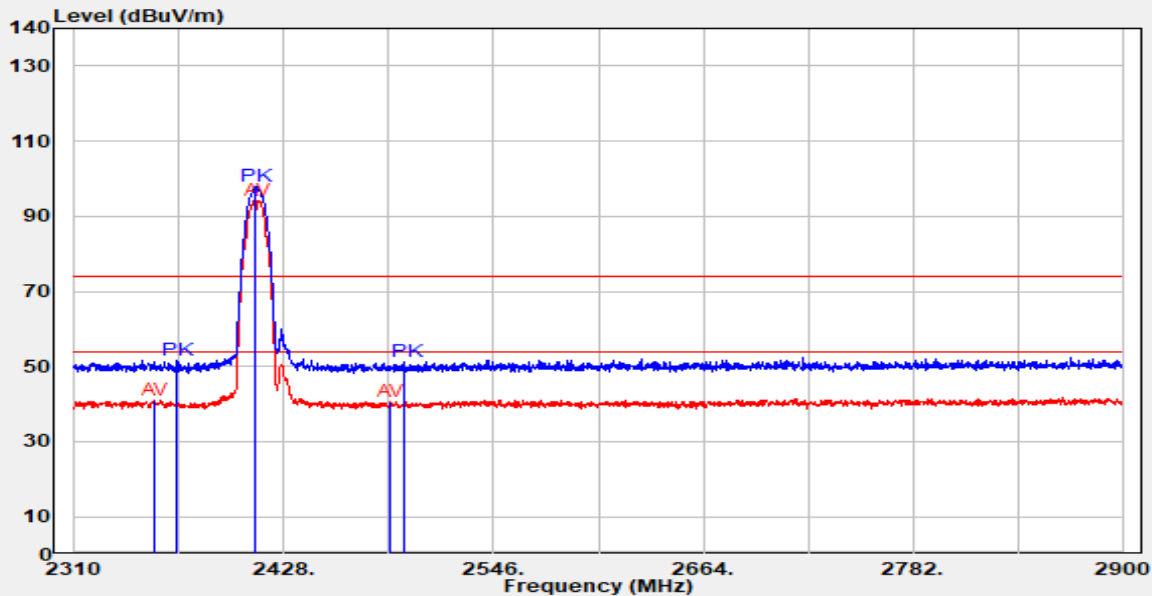
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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



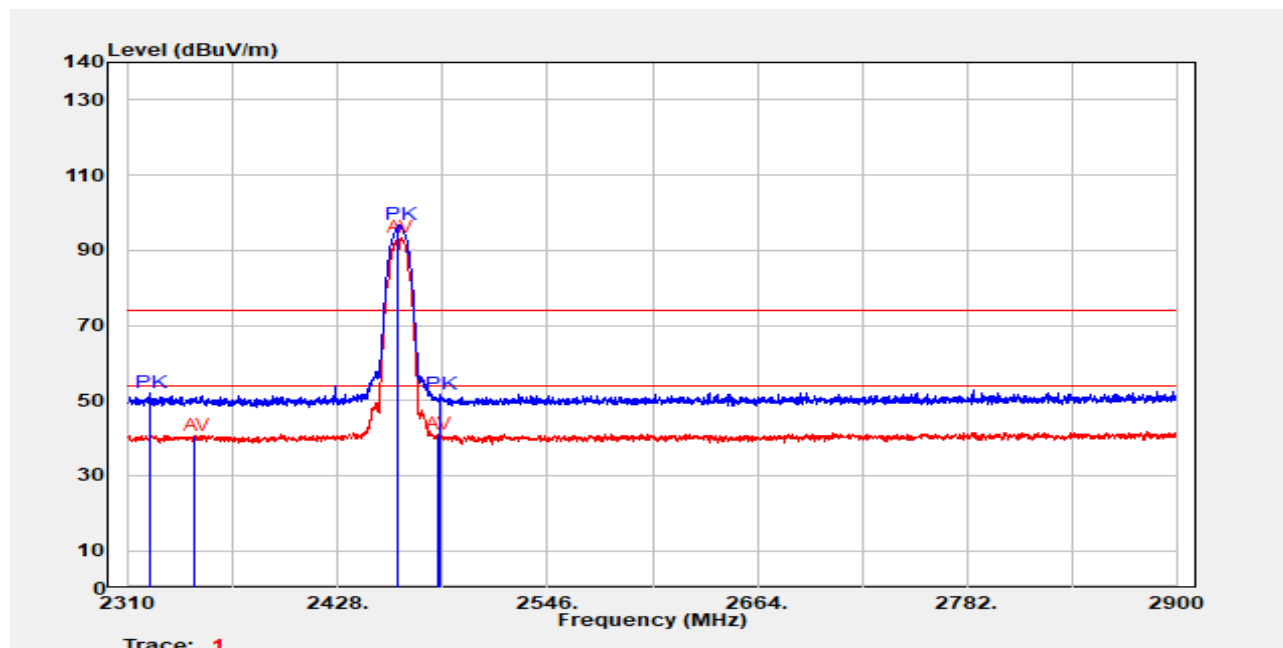
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2354.46	Average	42.82	-1.74	41.08	54.00	-12.92
2367.25	Peak	53.40	-1.93	51.47	74.00	-22.53
2411.91	Average	96.31	-2.04	94.27	-	-
2411.91	Peak	99.90	-2.04	97.86	-	-
2487.45	Average	42.58	-1.96	40.62	54.00	-13.38
2496.11	Peak	53.19	-2.02	51.17	74.00	-22.83

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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2321.61	Peak	53.70	-1.71	51.99	74.00	-22.01
2347.18	Average	42.47	-1.73	40.74	54.00	-13.26
2462.07	Average	95.58	-2.16	93.42	-	-
2462.07	Peak	98.84	-2.16	96.68	-	-
2484.11	Average	43.07	-1.97	41.10	54.00	-12.90
2485.29	Peak	53.40	-1.96	51.44	74.00	-22.56

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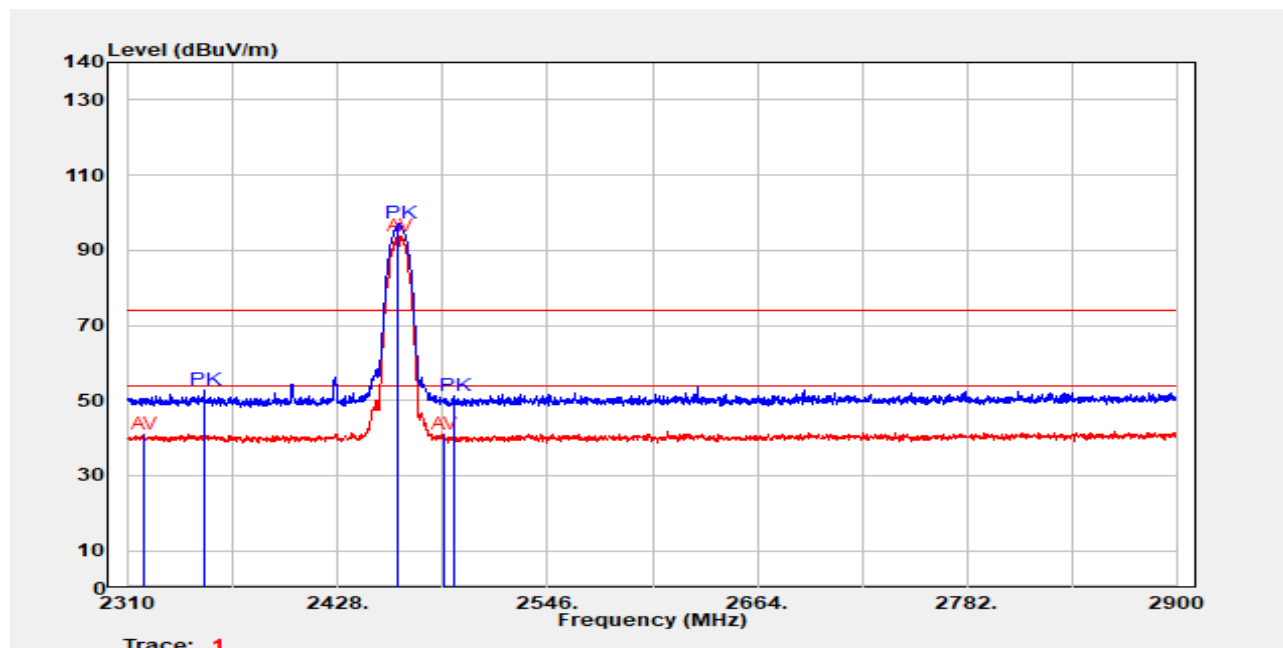
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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2318.07	Average	42.56	-1.67	40.89	54.00	-13.11
2352.30	Peak	54.39	-1.73	52.66	74.00	-21.34
2462.07	Average	95.96	-2.16	93.80	-	-
2462.07	Peak	99.26	-2.16	97.10	-	-
2487.26	Average	43.00	-1.96	41.04	54.00	-12.96
2493.75	Peak	53.24	-2.01	51.23	74.00	-22.77

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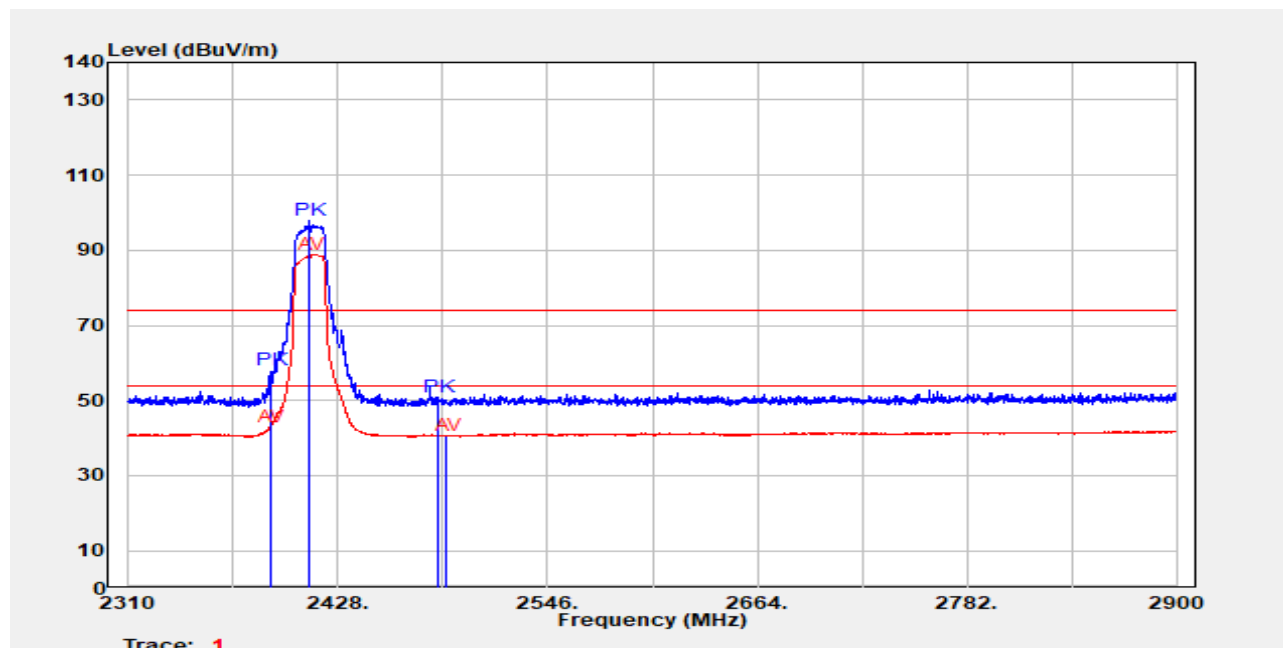
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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



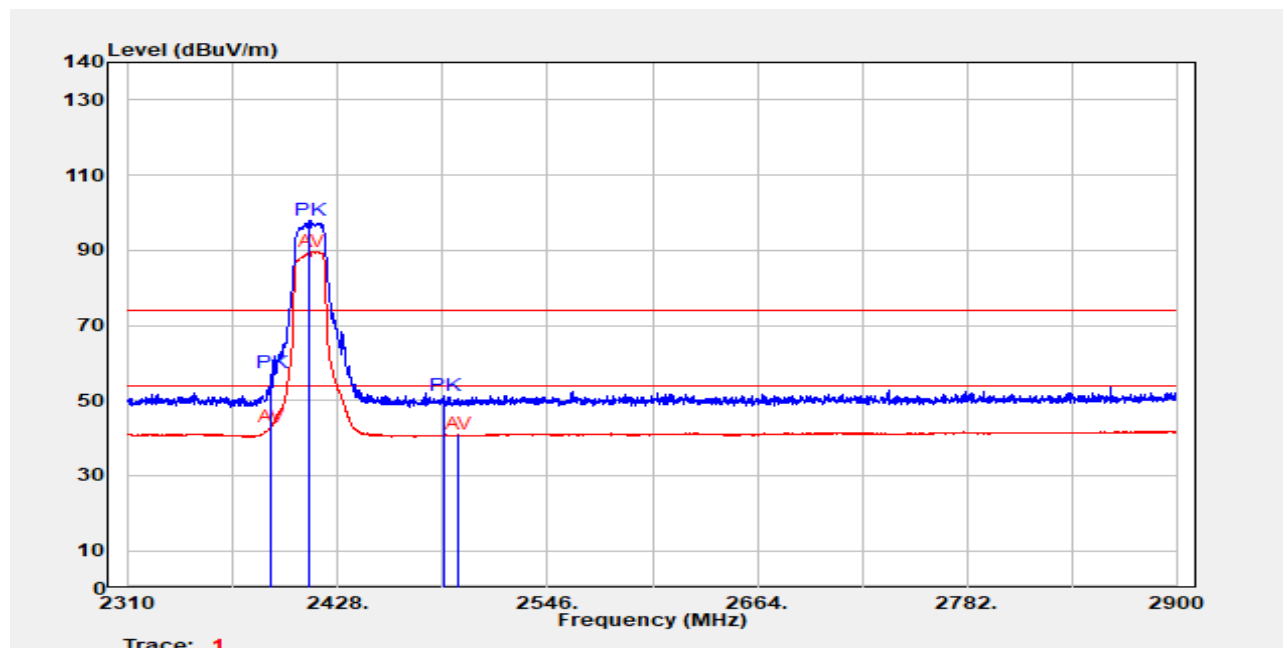
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.68	Peak	59.77	-1.88	57.89	74.00	-16.11
2389.87	Average	44.86	-1.87	42.99	54.00	-11.01
2412.10	Average	90.87	-2.04	88.83	-	-
2412.10	Peak	99.75	-2.04	97.71	-	-
2484.31	Peak	52.62	-1.97	50.65	74.00	-23.35
2489.22	Average	42.74	-1.97	40.77	54.00	-13.23

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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



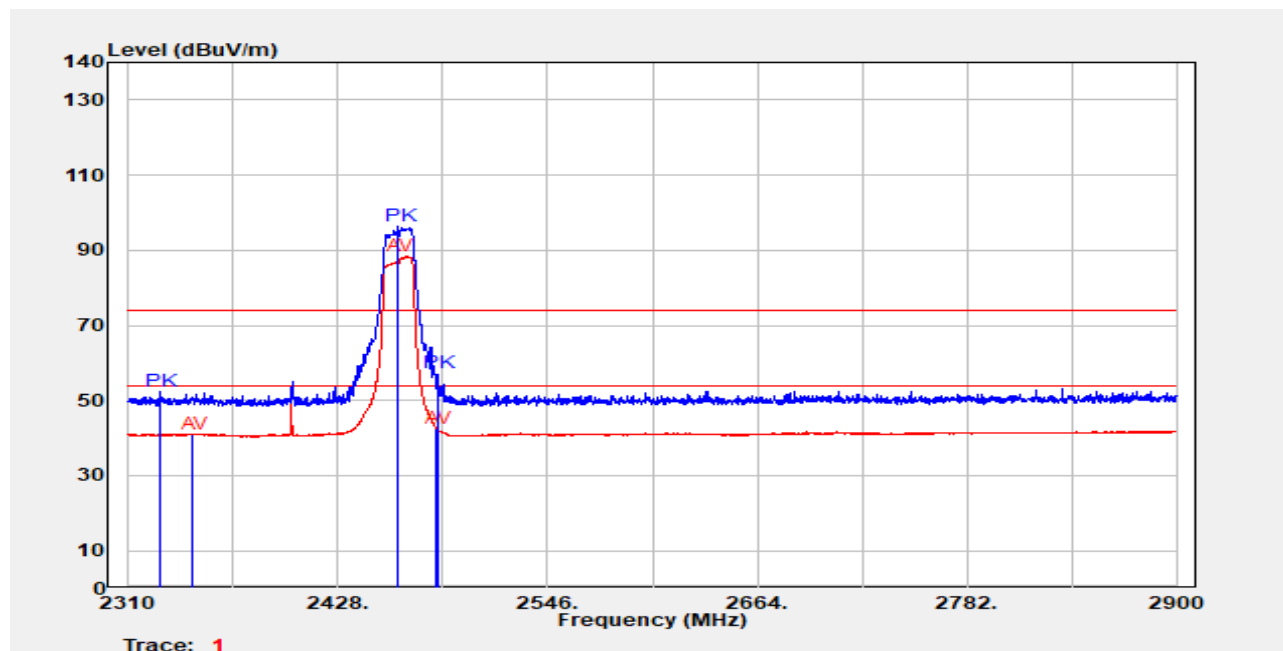
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.87	Average	44.70	-1.87	42.83	54.00	-11.17
2389.87	Peak	59.26	-1.87	57.39	74.00	-16.61
2412.10	Average	91.53	-2.04	89.49	-	-
2412.10	Peak	100.11	-2.04	98.07	-	-
2487.65	Peak	53.07	-1.96	51.11	74.00	-22.89
2495.13	Average	42.85	-2.01	40.84	54.00	-13.16

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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2327.90	Peak	54.09	-1.78	52.31	74.00	-21.69
2346.40	Average	42.82	-1.74	41.08	54.00	-12.92
2462.07	Average	90.44	-2.16	88.28	-	-
2462.07	Peak	98.54	-2.16	96.38	-	-
2483.50	Average	44.44	-1.97	42.47	54.00	-11.53
2484.11	Peak	59.42	-1.97	57.45	74.00	-16.55

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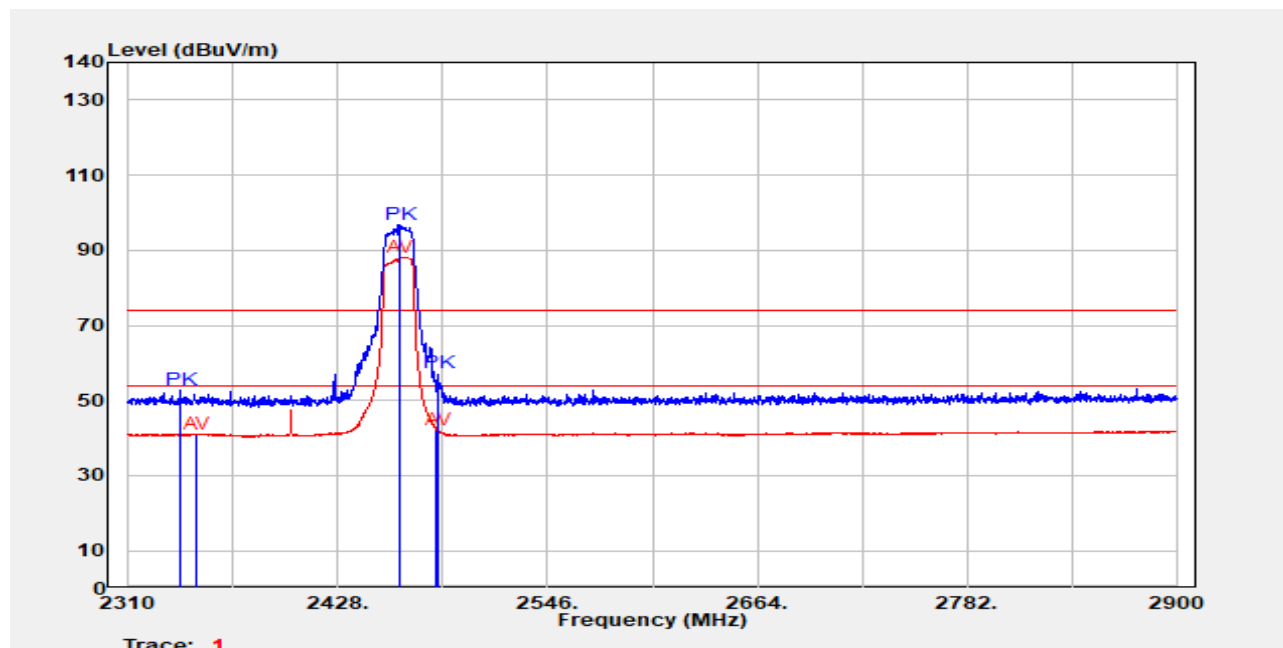
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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



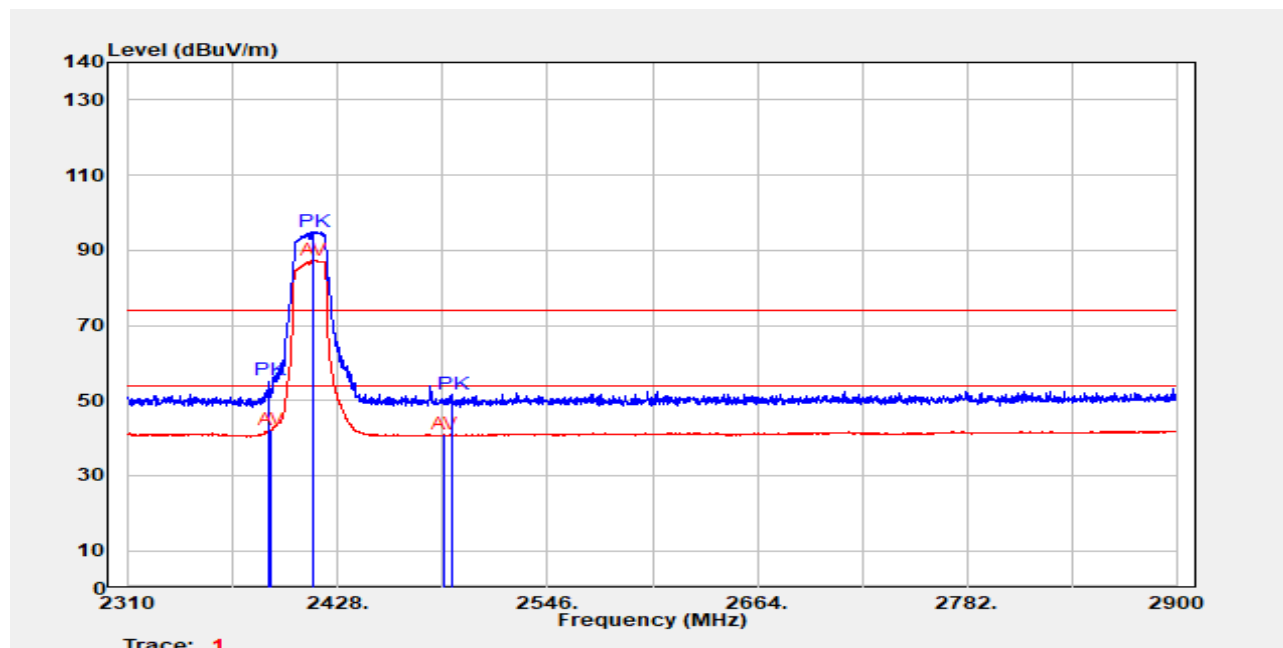
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2338.72	Peak	54.47	-1.79	52.68	74.00	-21.32
2347.58	Average	42.84	-1.72	41.12	54.00	-12.88
2462.27	Average	90.30	-2.16	88.14	-	-
2462.27	Peak	98.87	-2.16	96.71	-	-
2483.50	Average	44.11	-1.97	42.14	54.00	-11.86
2484.11	Peak	59.07	-1.97	57.10	74.00	-16.90

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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



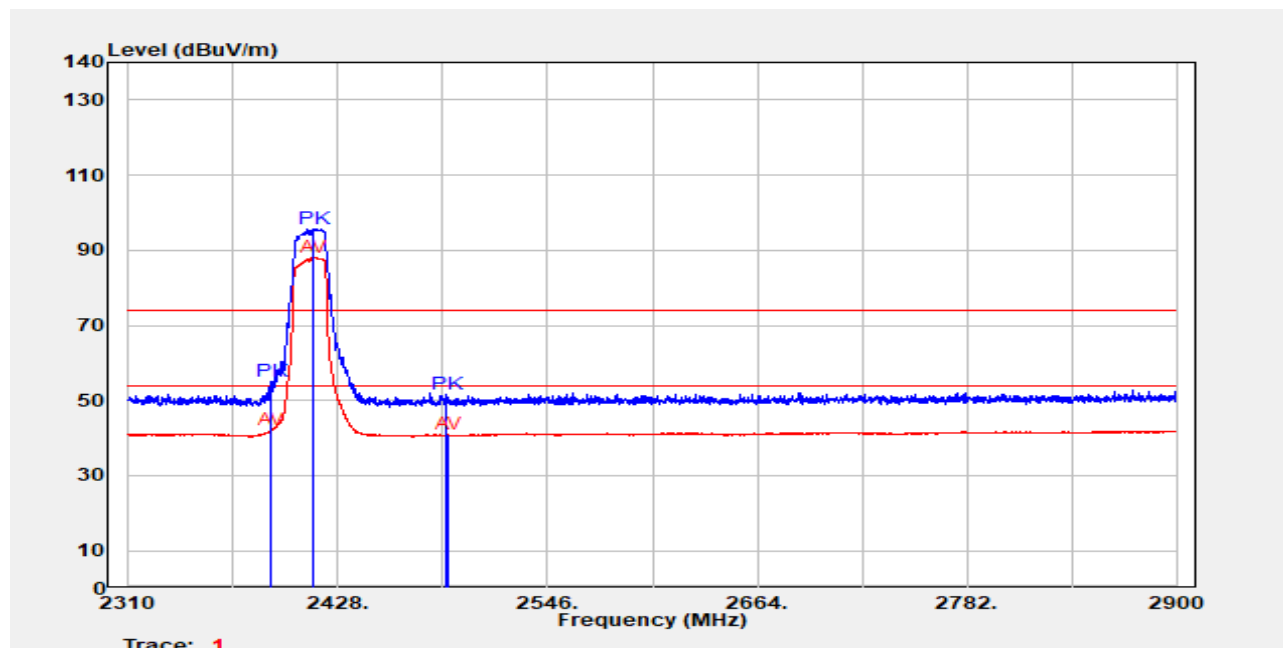
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2389.09	Peak	57.33	-1.89	55.44	74.00	-18.56
2389.87	Average	43.99	-1.87	42.12	54.00	-11.88
2413.68	Average	89.32	-2.02	87.30	-	-
2413.68	Peak	97.02	-2.02	95.00	-	-
2487.65	Average	42.83	-1.96	40.87	54.00	-13.13
2491.58	Peak	53.42	-1.99	51.43	74.00	-22.57

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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



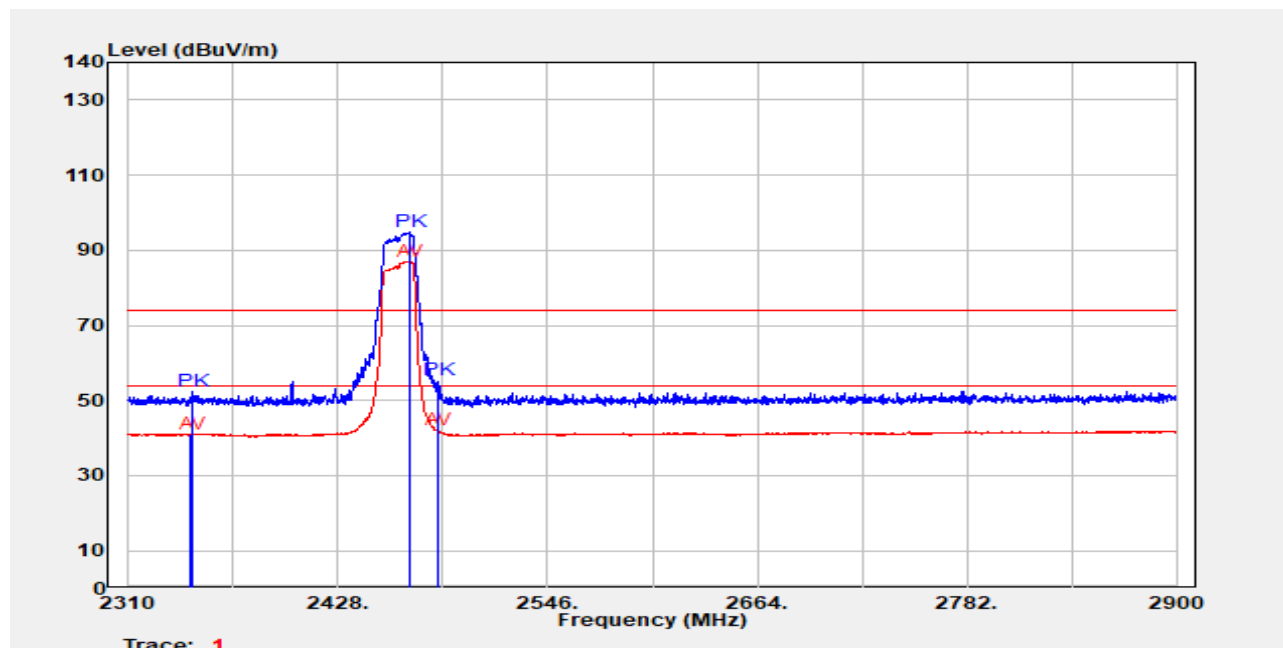
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.87	Average	43.82	-1.87	41.95	54.00	-12.05
2389.87	Peak	57.01	-1.87	55.14	74.00	-18.86
2413.68	Average	89.97	-2.02	87.95	-	-
2413.68	Peak	97.75	-2.02	95.73	-	-
2488.63	Peak	53.65	-1.97	51.68	74.00	-22.32
2489.81	Average	42.82	-1.97	40.85	54.00	-13.15

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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2345.02	Average	42.90	-1.75	41.15	54.00	-12.85
2346.20	Peak	53.97	-1.74	52.23	74.00	-21.77
2467.98	Average	89.19	-2.16	87.03	-	-
2467.98	Peak	96.86	-2.16	94.70	-	-
2483.72	Average	43.96	-1.97	41.99	54.00	-12.01
2484.50	Peak	57.18	-1.97	55.21	74.00	-18.79

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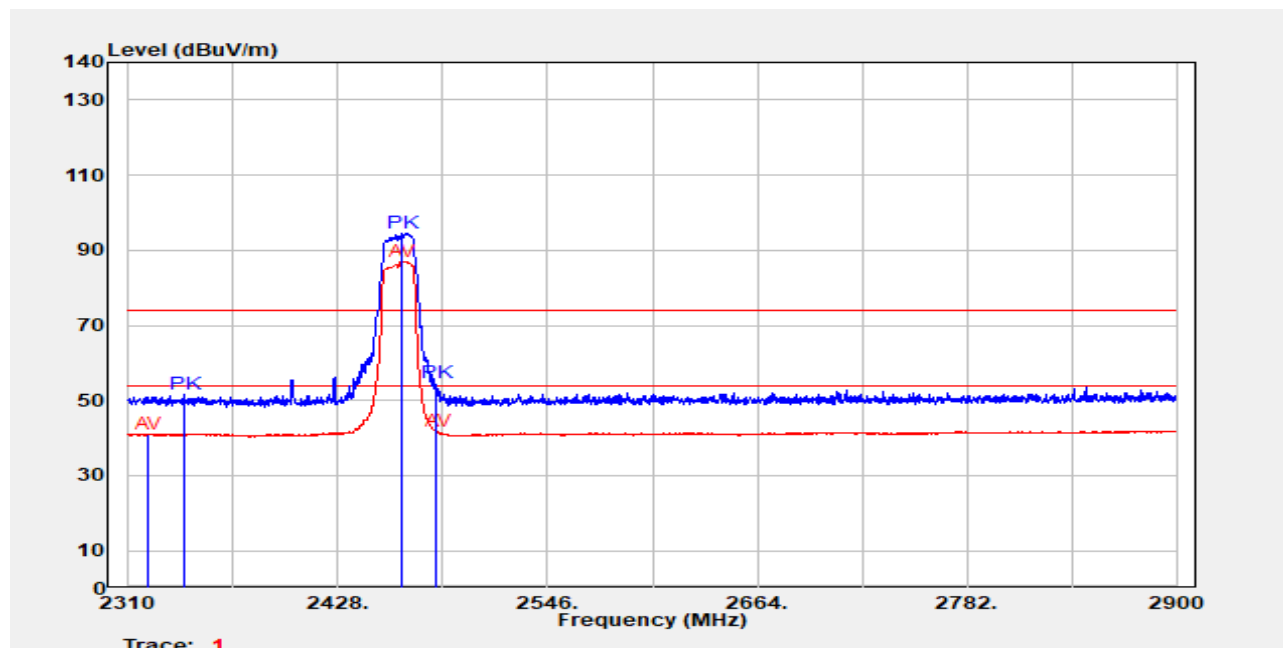
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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2320.62	Average	42.84	-1.70	41.14	54.00	-12.86
2340.89	Peak	53.20	-1.79	51.41	74.00	-22.59
2463.65	Average	88.99	-2.16	86.83	-	-
2463.65	Peak	96.64	-2.16	94.48	-	-
2483.50	Average	43.87	-1.97	41.90	54.00	-12.10
2483.50	Peak	56.57	-1.97	54.60	74.00	-19.40

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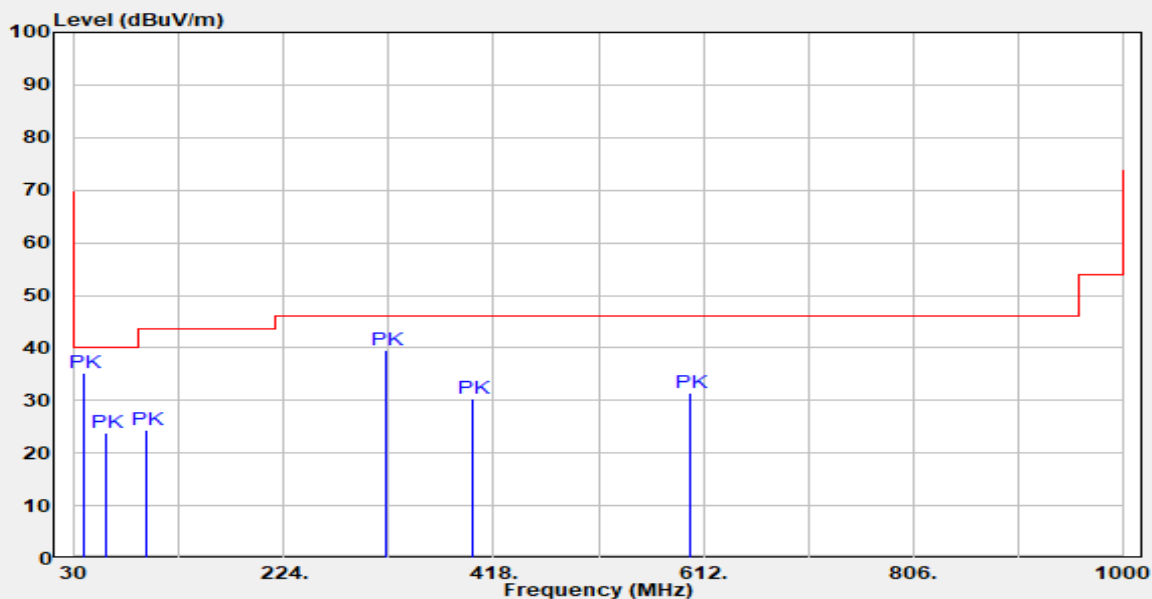
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11.6.2 Spurious Emission:

Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-08
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



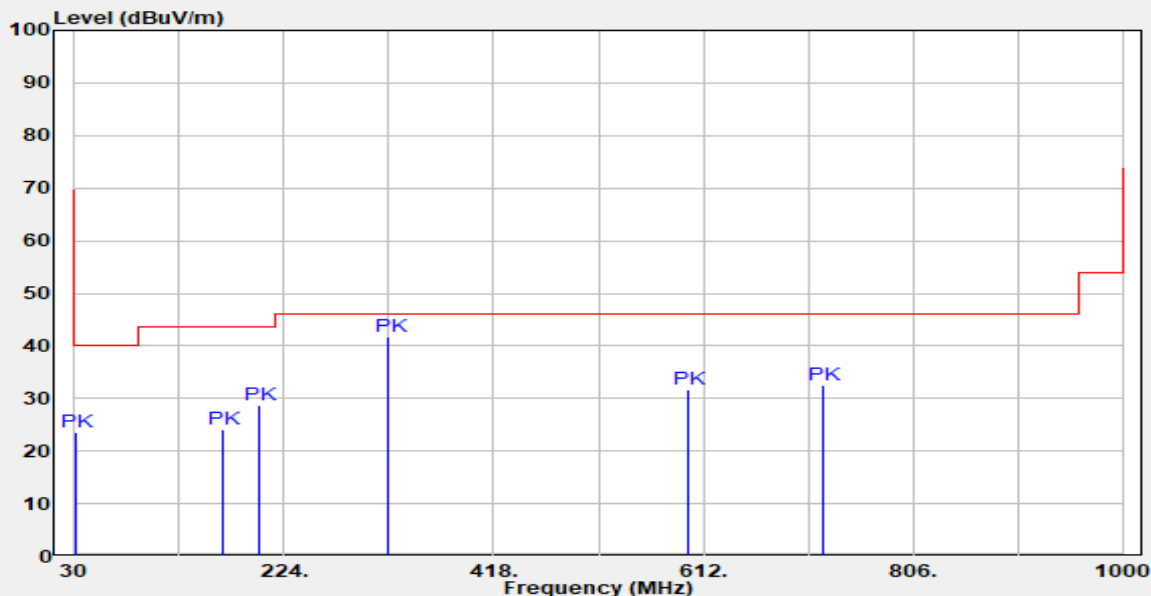
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
37.76	Peak	43.75	-8.65	35.10	40.00	-4.90
59.10	Peak	41.64	-17.92	23.72	40.00	-16.28
96.93	Peak	37.88	-13.50	24.38	43.50	-19.12
319.06	Peak	47.74	-8.17	39.57	46.00	-6.43
398.60	Peak	36.70	-6.26	30.44	46.00	-15.56
599.39	Peak	34.49	-3.10	31.39	46.00	-14.61

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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-08
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



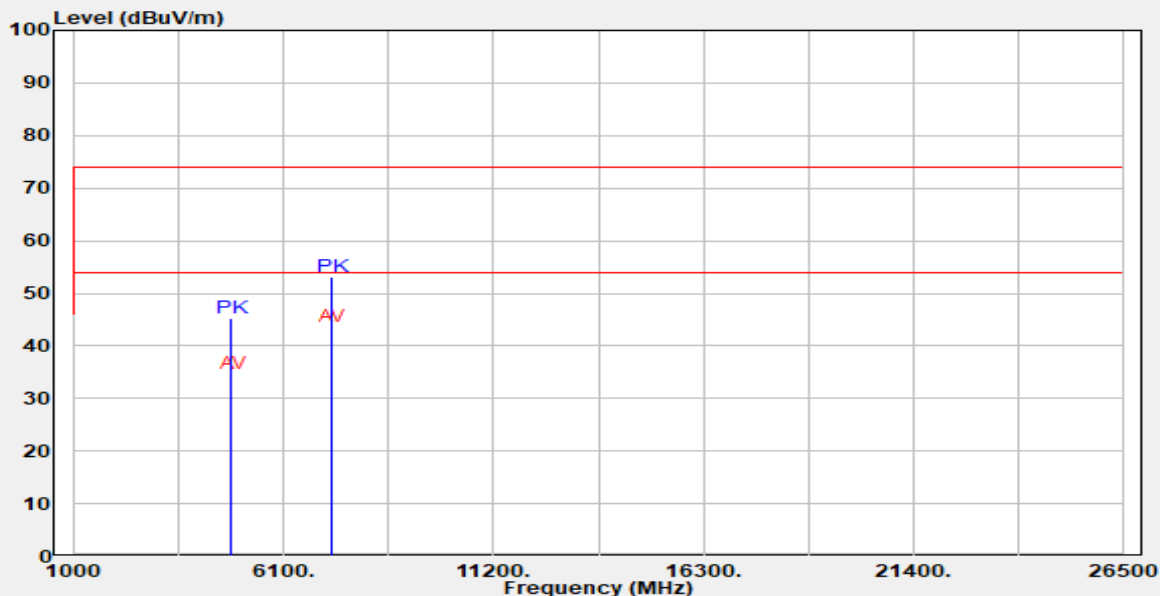
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBUV	dB	dBUV/m	dBUV/m	dB
31.94	Peak	29.46	-5.86	23.60	40.00	-16.40
166.77	Peak	37.26	-13.15	24.11	43.50	-19.39
200.72	Peak	42.01	-13.16	28.85	43.50	-14.65
321.00	Peak	49.90	-8.16	41.74	46.00	-4.26
598.42	Peak	34.86	-3.10	31.76	46.00	-14.24
723.55	Peak	34.24	-1.68	32.56	46.00	-13.44

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Report Number :TERF2506002137ER
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 1
Test Date :2025-07-04
Temp./Humi. :21.6°C/67%
Antenna Pol. :Vertical
Engineer :Dante Ding



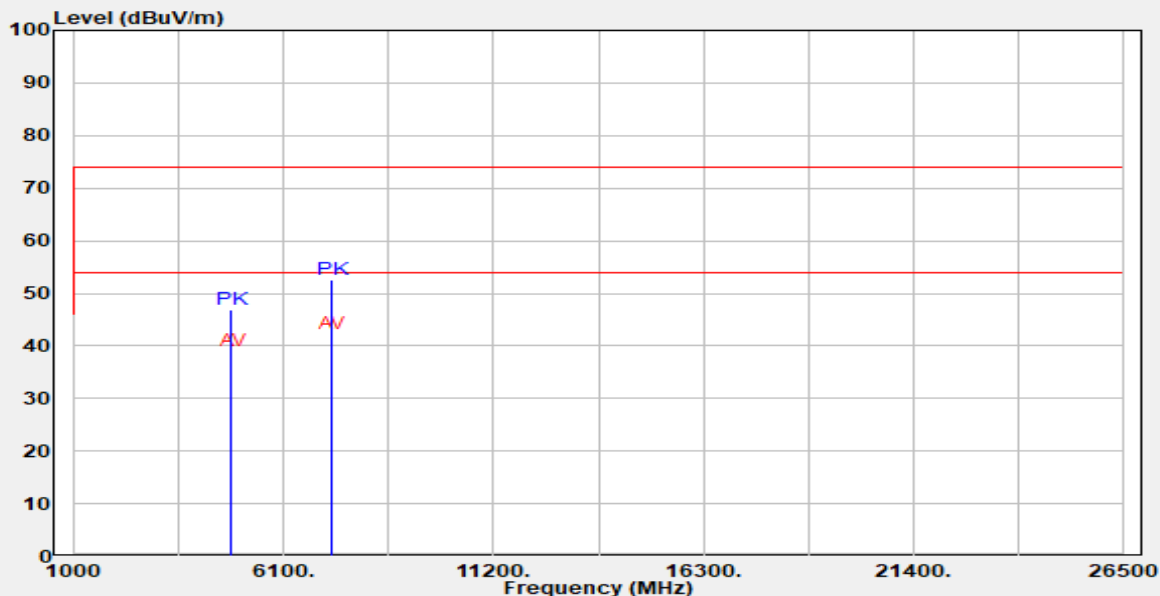
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	31.93	2.87	34.80	54.00	-19.20
4824.00	Peak	42.51	2.87	45.38	74.00	-28.62
7236.00	Average	34.47	9.10	43.57	54.00	-10.43
7236.00	Peak	43.95	9.10	53.05	74.00	-20.95

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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	36.11	2.87	38.98	54.00	-15.02
4824.00	Peak	44.06	2.87	46.93	74.00	-27.07
7236.00	Average	33.09	9.10	42.19	54.00	-11.81
7236.00	Peak	43.50	9.10	52.60	74.00	-21.40

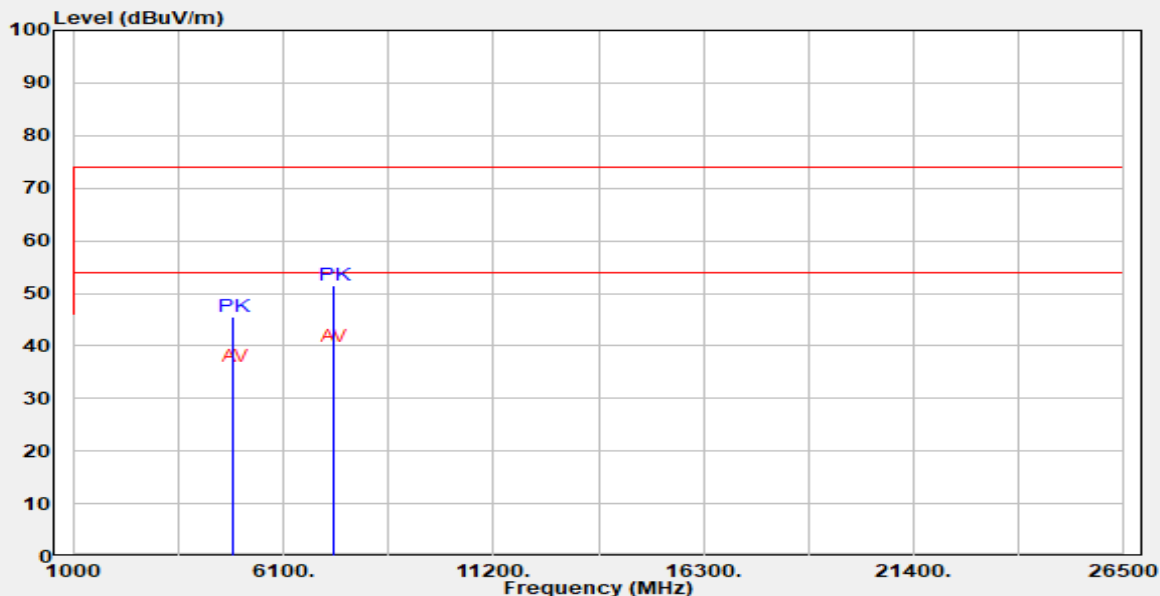
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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	33.14	2.84	35.98	54.00	-18.02
4874.00	Peak	42.62	2.84	45.46	74.00	-28.54
7311.00	Average	30.66	9.18	39.84	54.00	-14.16
7311.00	Peak	42.21	9.18	51.39	74.00	-22.61

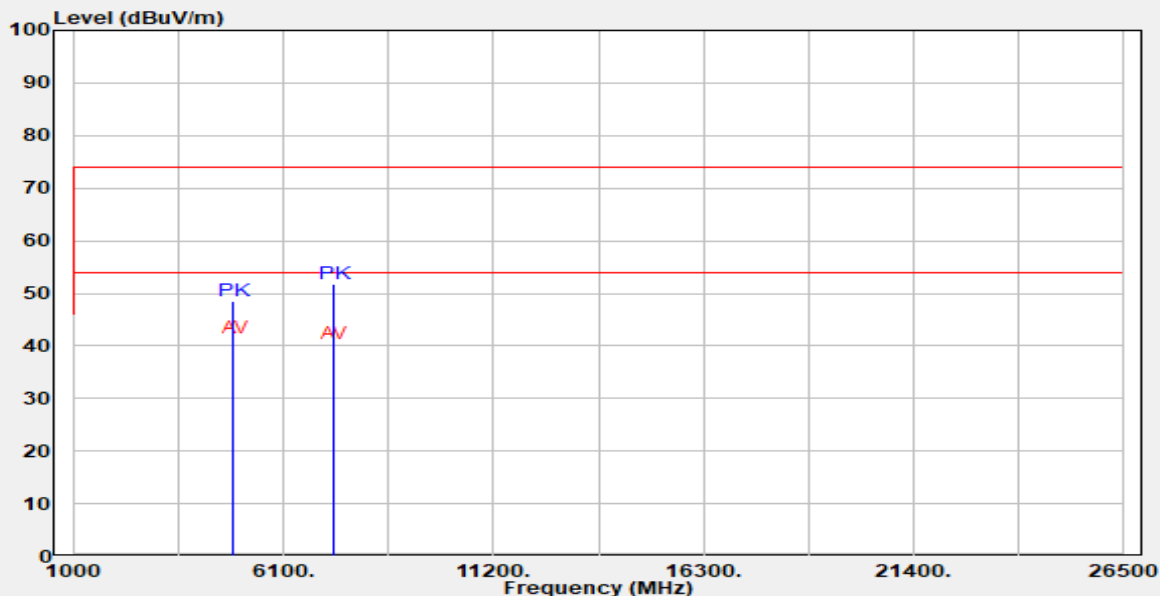
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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	38.54	2.84	41.38	54.00	-12.62
4874.00	Peak	45.64	2.84	48.48	74.00	-25.52
7311.00	Average	31.31	9.18	40.49	54.00	-13.51
7311.00	Peak	42.60	9.18	51.78	74.00	-22.22

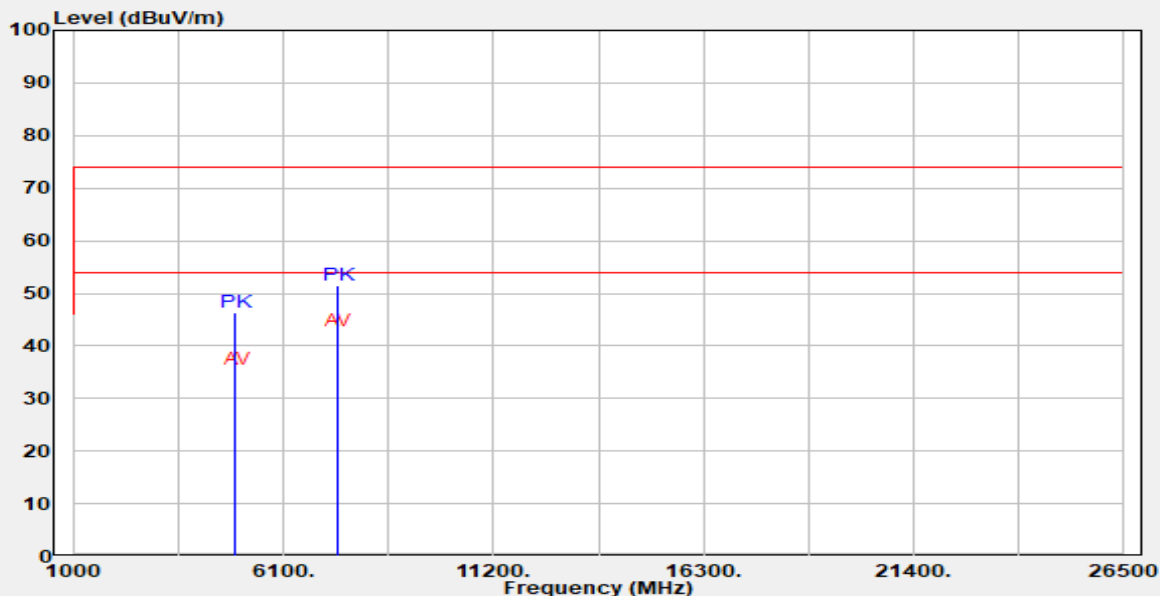
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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	32.43	2.96	35.39	54.00	-18.61
4924.00	Peak	43.28	2.96	46.24	74.00	-27.76
7386.00	Average	33.74	9.00	42.74	54.00	-11.26
7386.00	Peak	42.42	9.00	51.42	74.00	-22.58

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

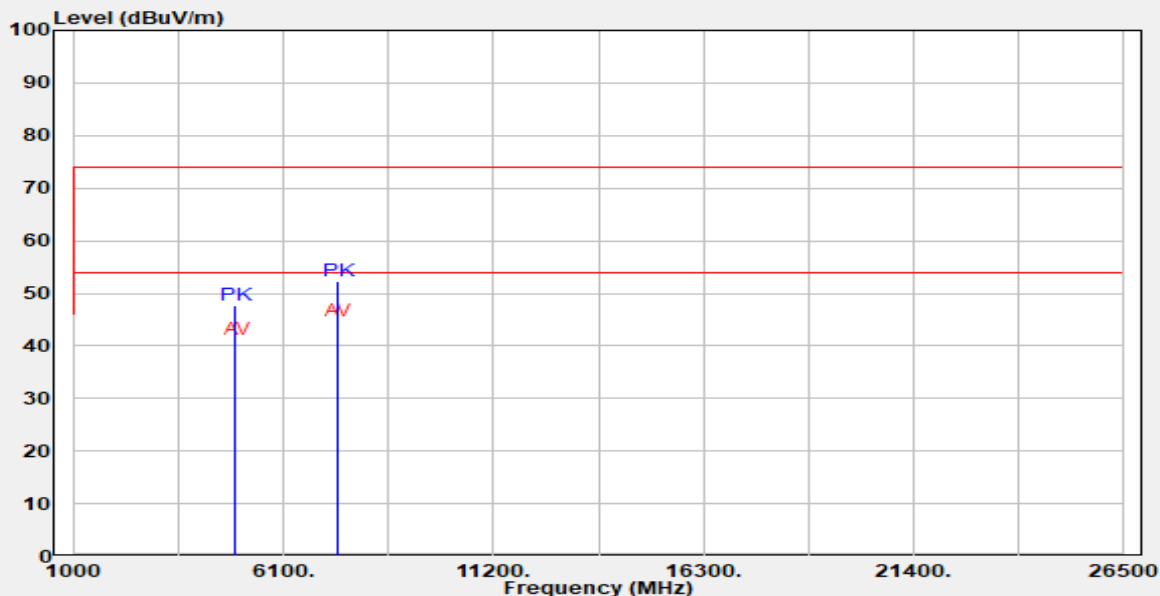
f (886-2) 2298-0488

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Report Number :TERF2506002137ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	38.15	2.96	41.11	54.00	-12.89
4924.00	Peak	44.82	2.96	47.78	74.00	-26.22
7386.00	Average	35.65	9.00	44.65	54.00	-9.35
7386.00	Peak	43.22	9.00	52.22	74.00	-21.78

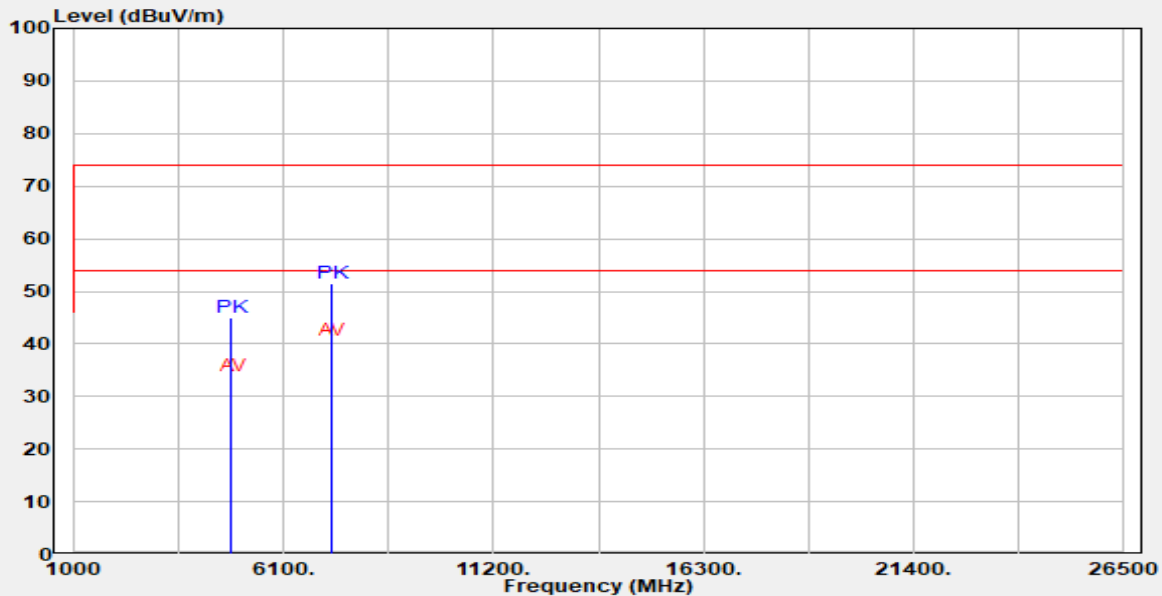
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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



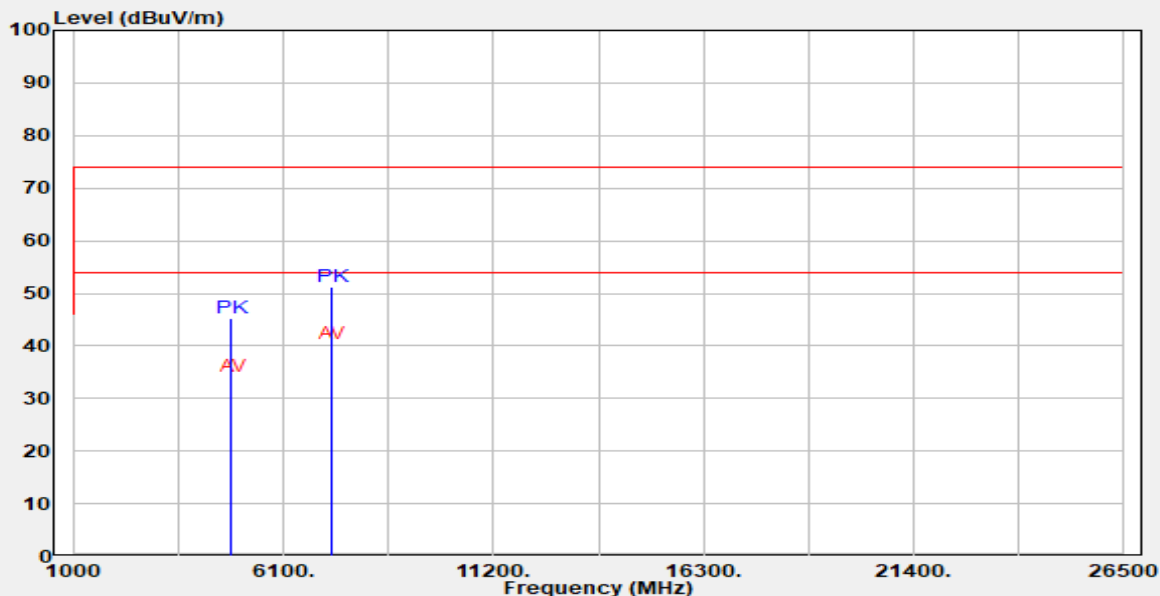
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	30.89	2.87	33.76	54.00	-20.24
4824.00	Peak	42.22	2.87	45.09	74.00	-28.91
7236.00	Average	31.45	9.10	40.55	54.00	-13.45
7236.00	Peak	42.48	9.10	51.58	74.00	-22.42

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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	31.36	2.87	34.23	54.00	-19.77
4824.00	Peak	42.35	2.87	45.22	74.00	-28.78
7236.00	Average	31.21	9.10	40.31	54.00	-13.69
7236.00	Peak	42.09	9.10	51.19	74.00	-22.81

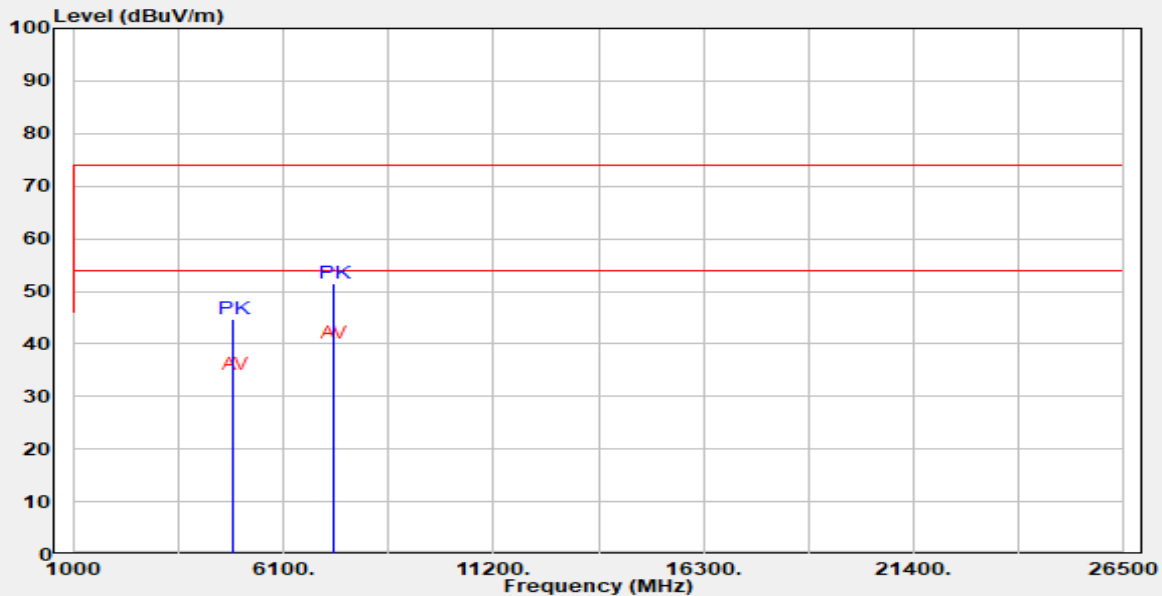
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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



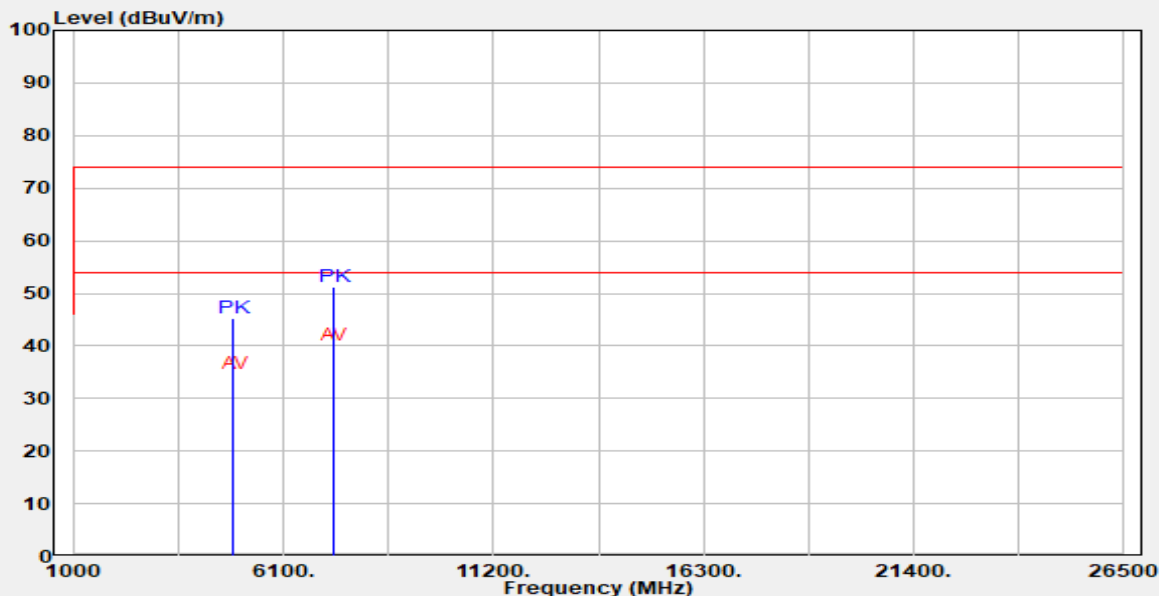
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	31.24	2.84	34.08	54.00	-19.92
4874.00	Peak	41.84	2.84	44.68	74.00	-29.32
7311.00	Average	30.87	9.18	40.05	54.00	-13.95
7311.00	Peak	42.32	9.18	51.50	74.00	-22.50

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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	31.76	2.84	34.60	54.00	-19.40
4874.00	Peak	42.39	2.84	45.23	74.00	-28.77
7311.00	Average	30.87	9.18	40.05	54.00	-13.95
7311.00	Peak	42.11	9.18	51.29	74.00	-22.71

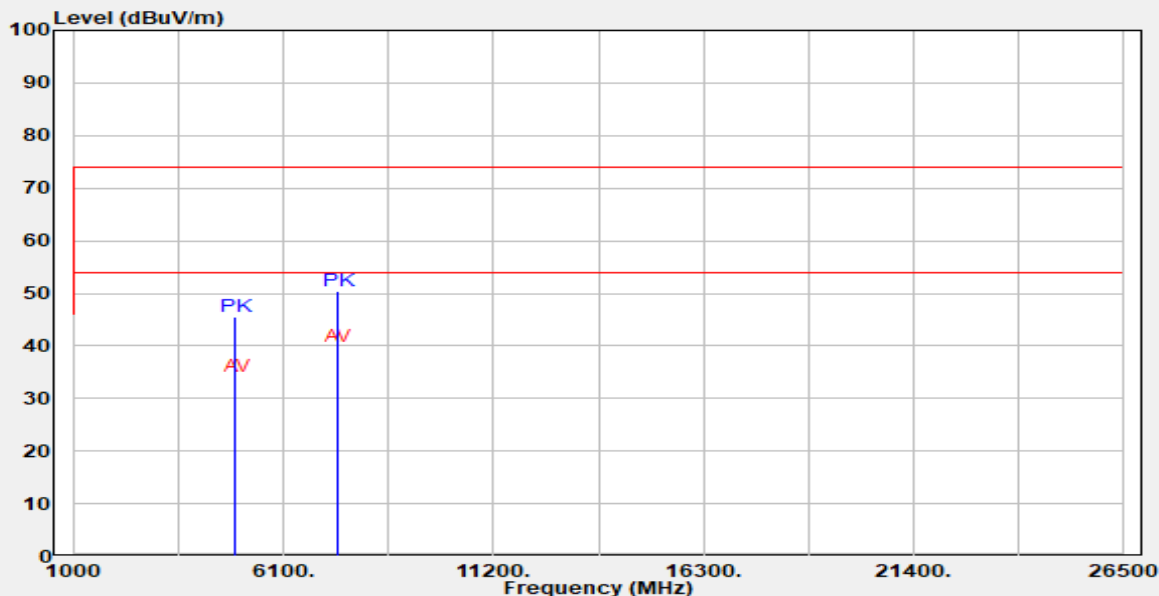
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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



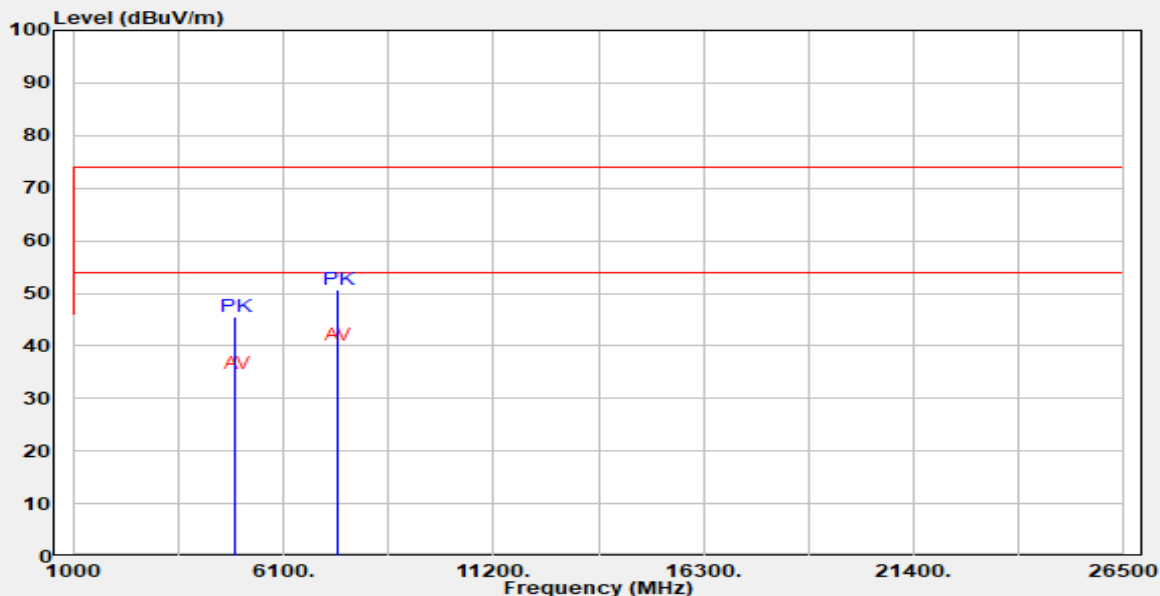
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	31.19	2.96	34.15	54.00	-19.85
4924.00	Peak	42.67	2.96	45.63	74.00	-28.37
7386.00	Average	30.88	9.00	39.88	54.00	-14.12
7386.00	Peak	41.47	9.00	50.47	74.00	-23.53

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Report Number :TERF2506002137ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	31.75	2.96	34.71	54.00	-19.29
4924.00	Peak	42.44	2.96	45.40	74.00	-28.60
7386.00	Average	31.02	9.00	40.02	54.00	-13.98
7386.00	Peak	41.79	9.00	50.79	74.00	-23.21

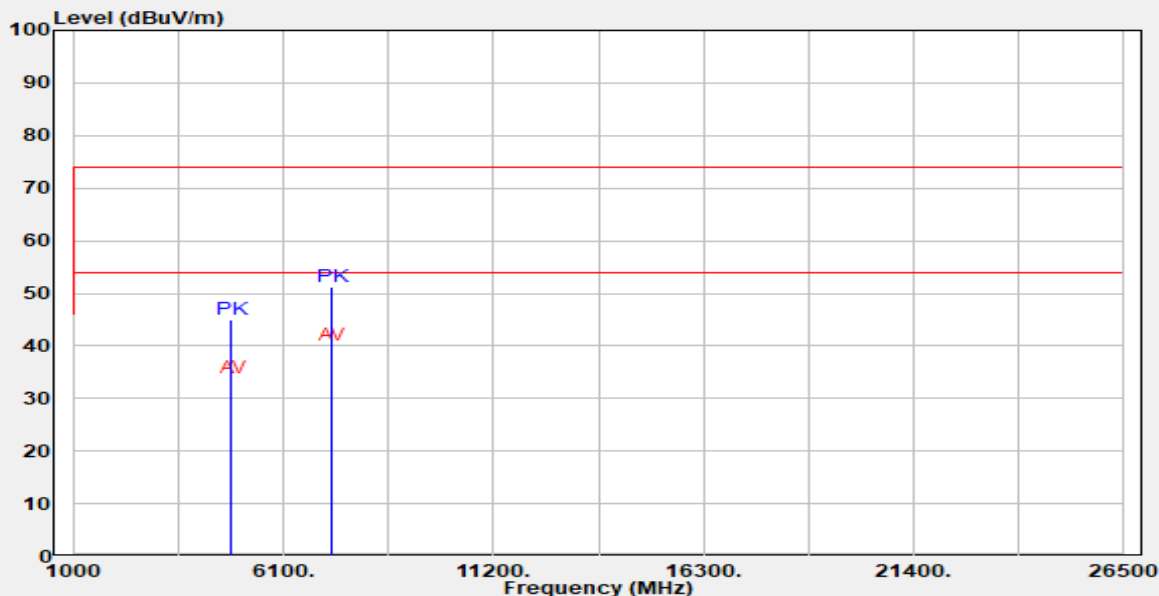
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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



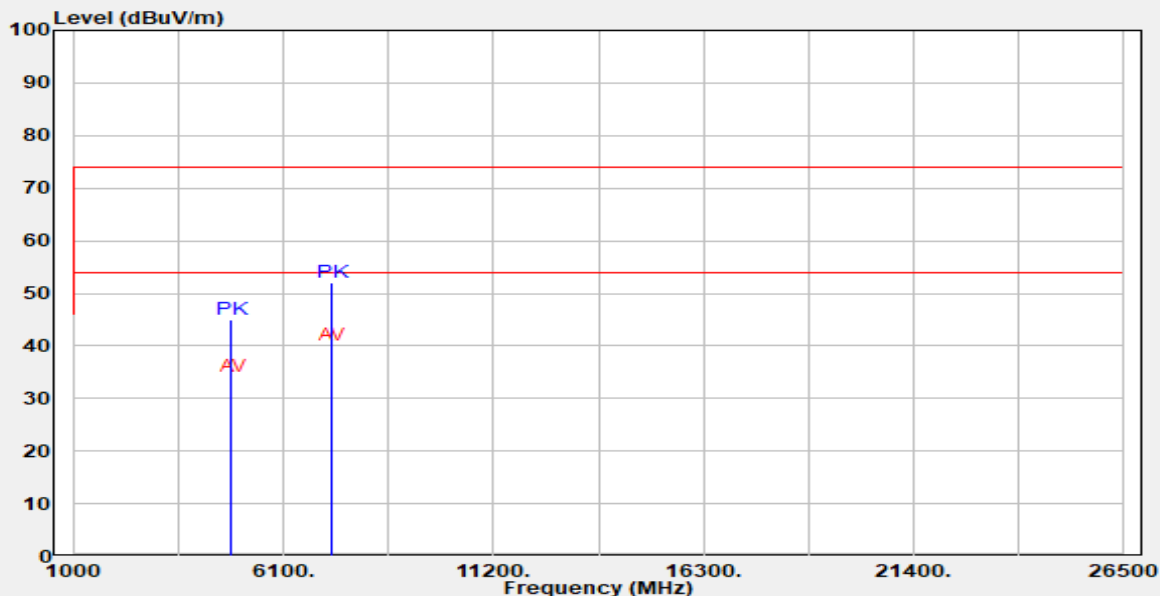
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	30.96	2.87	33.83	54.00	-20.17
4824.00	Peak	42.03	2.87	44.90	74.00	-29.10
7236.00	Average	31.06	9.10	40.16	54.00	-13.84
7236.00	Peak	42.15	9.10	51.25	74.00	-22.75

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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



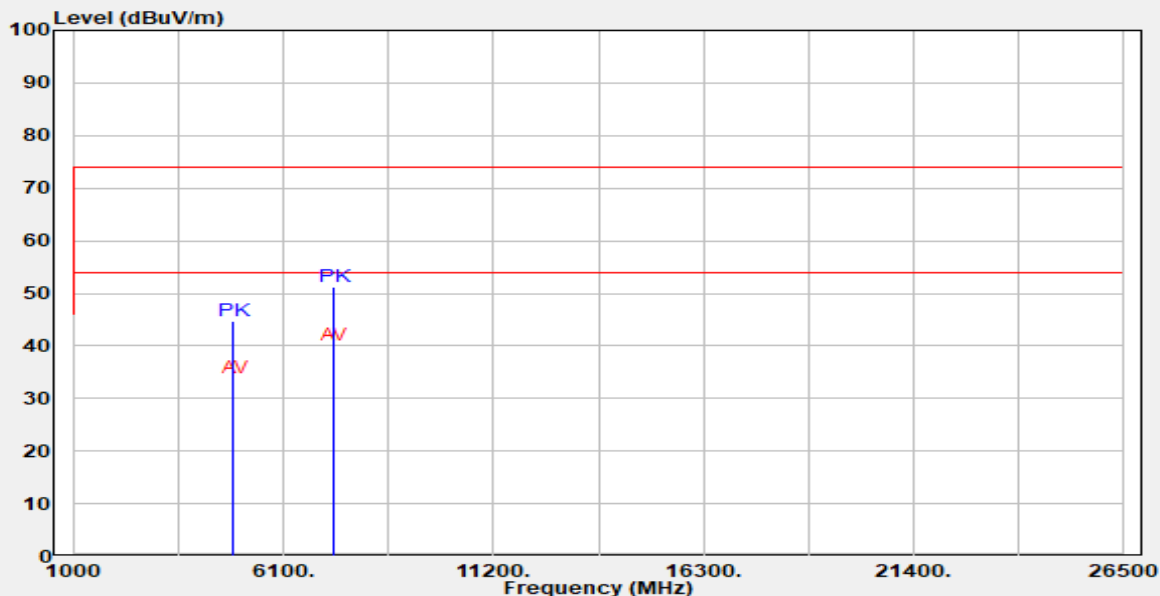
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	31.29	2.87	34.16	54.00	-19.84
4824.00	Peak	42.10	2.87	44.97	74.00	-29.03
7236.00	Average	30.94	9.10	40.04	54.00	-13.96
7236.00	Peak	42.83	9.10	51.93	74.00	-22.07

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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	31.09	2.84	33.93	54.00	-20.07
4874.00	Peak	41.77	2.84	44.61	74.00	-29.39
7311.00	Average	30.92	9.18	40.10	54.00	-13.90
7311.00	Peak	42.14	9.18	51.32	74.00	-22.68

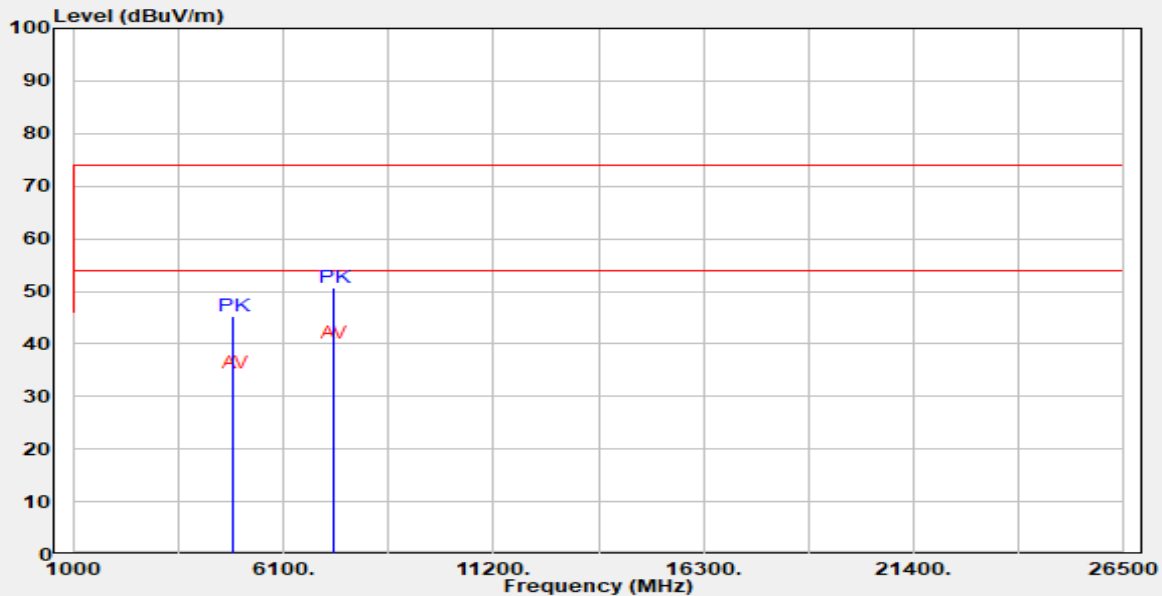
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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



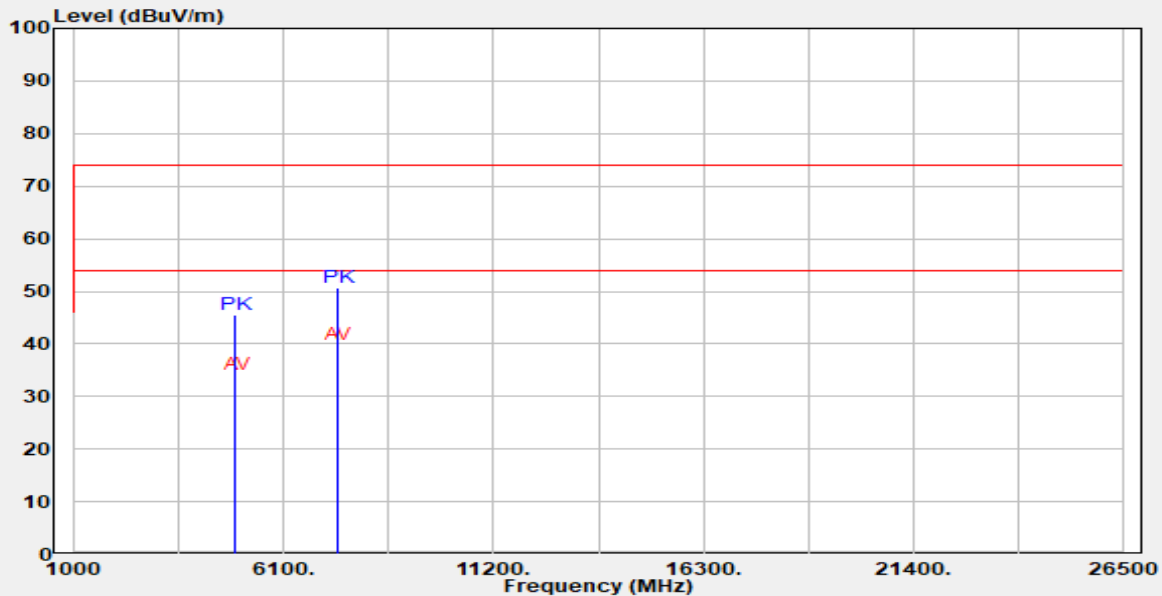
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	31.57	2.84	34.41	54.00	-19.59
4874.00	Peak	42.46	2.84	45.30	74.00	-28.70
7311.00	Average	30.91	9.18	40.09	54.00	-13.91
7311.00	Peak	41.59	9.18	50.77	74.00	-23.23

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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	31.17	2.96	34.13	54.00	-19.87
4924.00	Peak	42.58	2.96	45.54	74.00	-28.46
7386.00	Average	30.87	9.00	39.87	54.00	-14.13
7386.00	Peak	41.61	9.00	50.61	74.00	-23.39

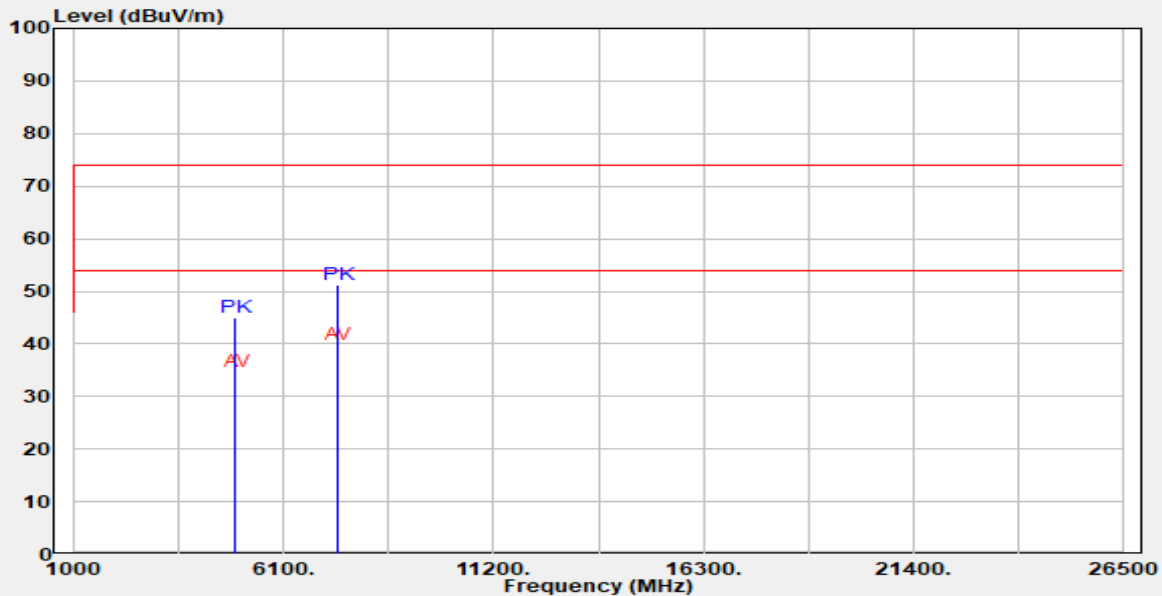
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Report Number :TERF2506002137ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 1
 Test Date :2025-07-04
 Temp./Humi. :21.6°C/67%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	31.73	2.96	34.69	54.00	-19.31
4924.00	Peak	42.16	2.96	45.12	74.00	-28.88
7386.00	Average	30.95	9.00	39.95	54.00	-14.05
7386.00	Peak	42.21	9.00	51.21	74.00	-22.79

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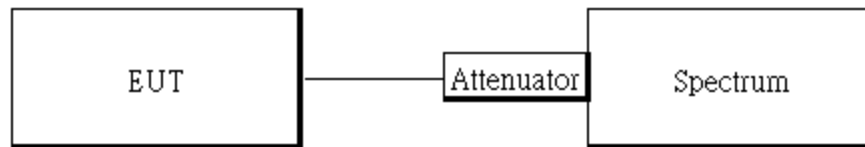
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

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 & VBW = 10 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.

Note:

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

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12.4 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.4	-6.40	8.00	PASS
2437	-5.33	-5.33	8.00	PASS
2462	-5.77	-5.77	8.00	PASS

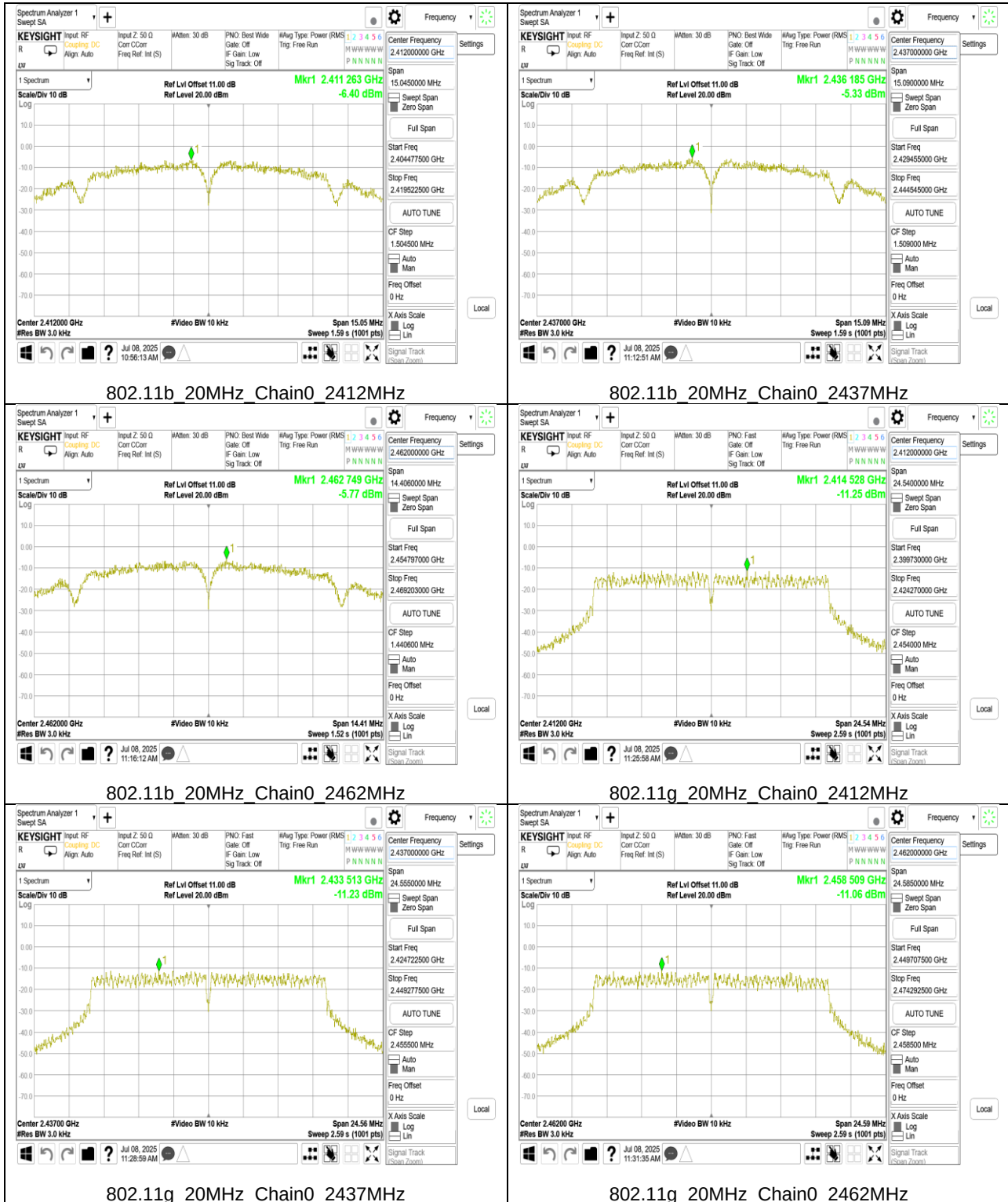
POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.25	-11.25	8.00	PASS
2437	-11.23	-11.23	8.00	PASS
2462	-11.06	-11.06	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.97	-12.97	8.00	PASS
2437	-11.73	-11.73	8.00	PASS
2462	-11.36	-11.36	8.00	PASS

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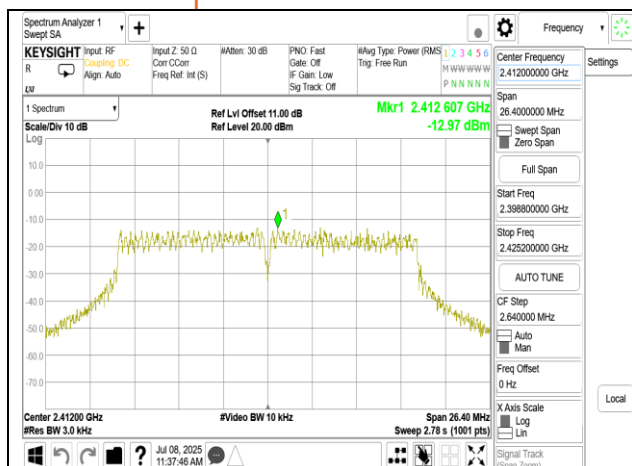
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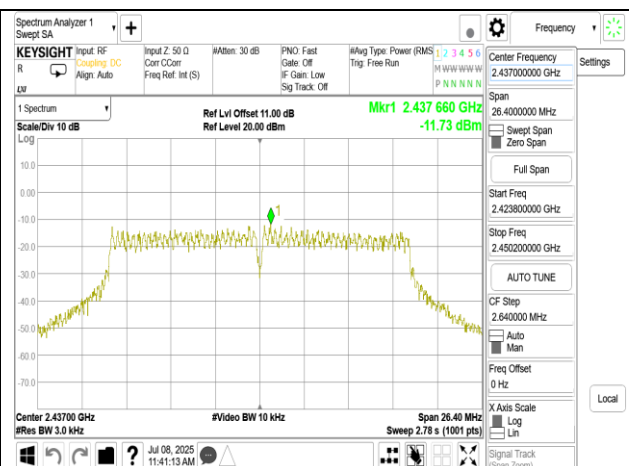
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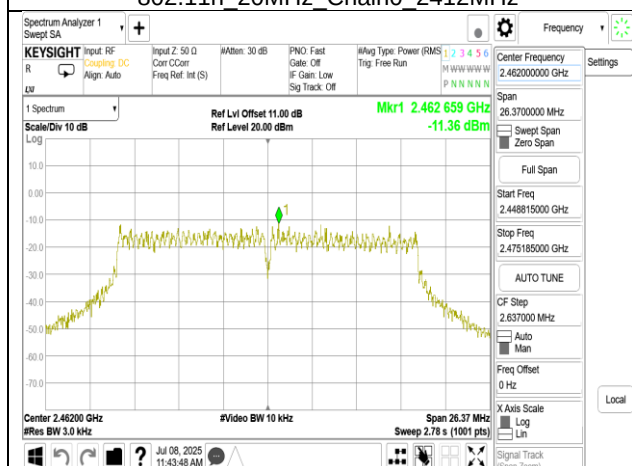
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802.11n 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain0 2462MHz

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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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