

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Brivo Systems LLC
7700 Old Georgetown Road Suite 300, Bethesda, MD 20814,
United States

Manufacturer: TELE System Communications Pte. Ltd.
5F, No 437, Tao Ying Rd., Taoyuan 33068, Taiwan

Product Name: ACS300 Access Control System

Brand Name: Brivo

Model No.: B-ACS300V2-E, B-ACS300V2-S

Model Difference: 1. Different server: B-ACS300V2-E for ON Air Server,
B-ACS300V2-S for no Server
2. Different enclosures:
Enclosure 1 (white color)
L /W/H: 188.3/190.5/38.6 mm
Enclosure 2 (black color)
L /W/H: 193.8/199.5/66.7 mm

Report Number: TERF2310002515ER

FCC ID O9U-ACS300-2

Date of EUT Received: October 4, 2023

Date of Test: October 5, 2023 ~ November 14, 2023

Issue Date: January 29, 2024

Approved By _____

Blue Yang

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2310002515ER	00	Original.	January 11, 2024	Susan Lin	
TERF2310002515ER	01	Update chapter 2.5 and 2.6	January 29, 2024	Susan Lin	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	ACS300 Access Control System
Brand Name:	Brivo
Model No.:	B-ACS300V2-E, B-ACS300V2-S
Model Difference:	1. Different server: B-ACS300V2-E for ON Air Server, B-ACS300V2-S for no Server 2. Different enclosures: Enclosure 1 (white color) L /W/H: 188.3/190.5/38.6 mm Enclosure 2 (black color) L /W/H: 193.8/199.5/66.7 mm
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	3C2330TR0200036
Power Supply:	56Vdc from POE
Test Software (Name/Version):	Tera Term/4.102

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	10.15	8.16	DSSS
802.11g	2412~2462	11	15.78	6.79	OFDM
802.11n20	2412~2462	11	15.16	6.64	OFDM
802.11n40	2422~2452	7	14.91	6.42	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		64QAM, 16QAM, QPSK, BPSK for OFDM			
Data Rate:		802.11 b: 1/2/5.5/11 Mbps			
		802.11 g: 6/9/12/18/24/36/48/54 Mbps			
		802.11 n_20MHz:up to 72.2Mbps			
		802.11 n_40MHz:up to 150Mbps			

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1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	2412~2462	1.35

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

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

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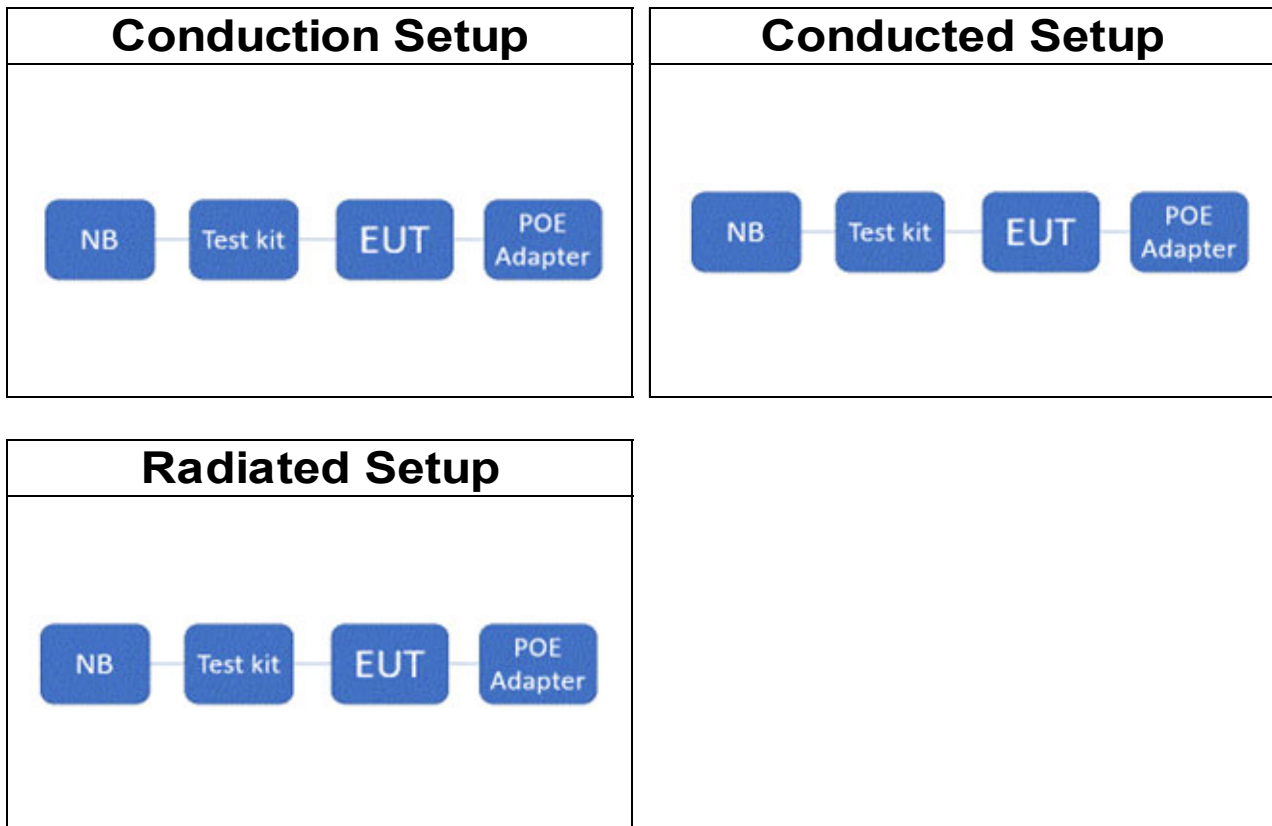
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1D07MW 19/08	N/A	N/A
Test kit	FTDI	FT232HQ	N/A	N/A	N/A
PoE Adapter	GME	GME40A-480050FDA	N/A	N/A	N/A

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Kit	FTDI	FT232HQ	N/A	N/A	N/A
PoE Adapter	GME	GME40A-480050FDA	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X45	N/A	N/A

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1D07MW 19/08	N/A	N/A
Test kit	FTDI	FT232HQ	N/A	N/A	N/A
PoE Adapter	GME	GME40A-480050FDA	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

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

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

2400~2483.5 MHz			
20MHz		40MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
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.

Modulation		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

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					
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
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS0	ch0

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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	CH 0

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	CH 0
802.11g	1 to 11	1,6,11	OFDM	6	CH 0
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	CH 0
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS0	CH 0

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	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Conducted emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8 dB	9kHz~30MHz
	+/-	4.82 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz

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.	CAL DUE.
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2023	06/21/2024
LISN	SCHWARZBECK	NSLK 8127	01040	09/06/2023	09/05/2024
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2023	06/21/2024
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/07/2023	06/06/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1242004	10/24/2023	10/23/2024
Power Sensor	Anritsu	MA2411B	1207365	10/24/2023	10/23/2024
Power Sensor	Anritsu	MA2411B	1207368	10/24/2023	10/23/2024
Attenuator	Mini-Circuits	BW-S10W2+	2	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023
2WayDivider	Titan	T0510E2W118Q	22015157	12/13/2022	12/12/2023

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2023	09/22/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2023	08/08/2024
Loop Antenna	ETS.LINDGREN	6502	148045	10/13/2023	10/12/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	01/17/2023	01/16/2024
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024
Pre-Amplifier	EMC Instruments	EMC118A45SEE	980868	08/31/2023	08/30/2024
Pre-Amplifier	EMC Instruments	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A07676	08/31/2023	08/30/2024
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/13/2022	12/12/2023
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM-1000+EMC107-SM-1500+EMC107-SM-SM-8000+SUCOFLEX 104PEA	RX Cable 9K-18G (221110+221106+221212+MY4251/4P EA)	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	08/31/2023	08/30/2024
Site Cal	SGS	SAC 3	N/A	08/31/2023	08/30/2024
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

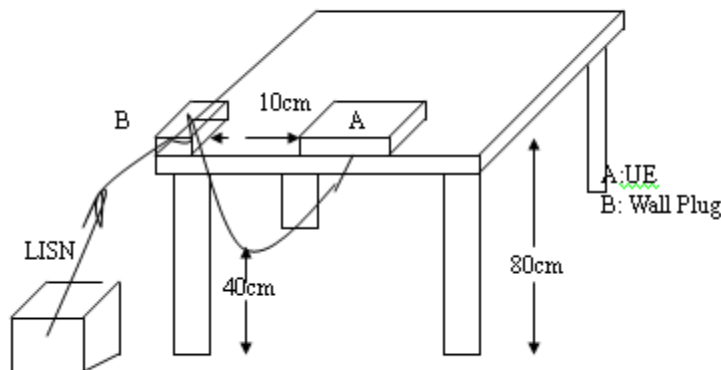
Note

- 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 C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure

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

7.5 Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2310002515ER

Test Site :Conduction 1

Operation Mode :WLAN 2.4G

Test Date :2023-11-07

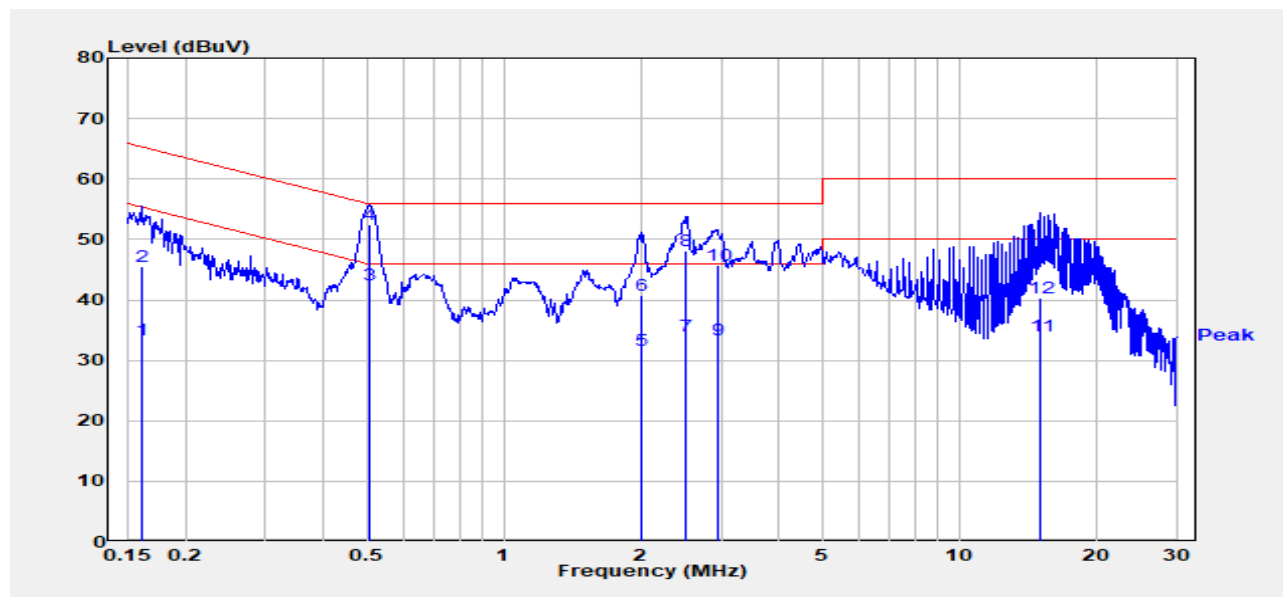
Power :120V/60Hz

Temp./Humi. :24.0°C/57%

Probe :L

Engineer :Nick Lin

Note: :



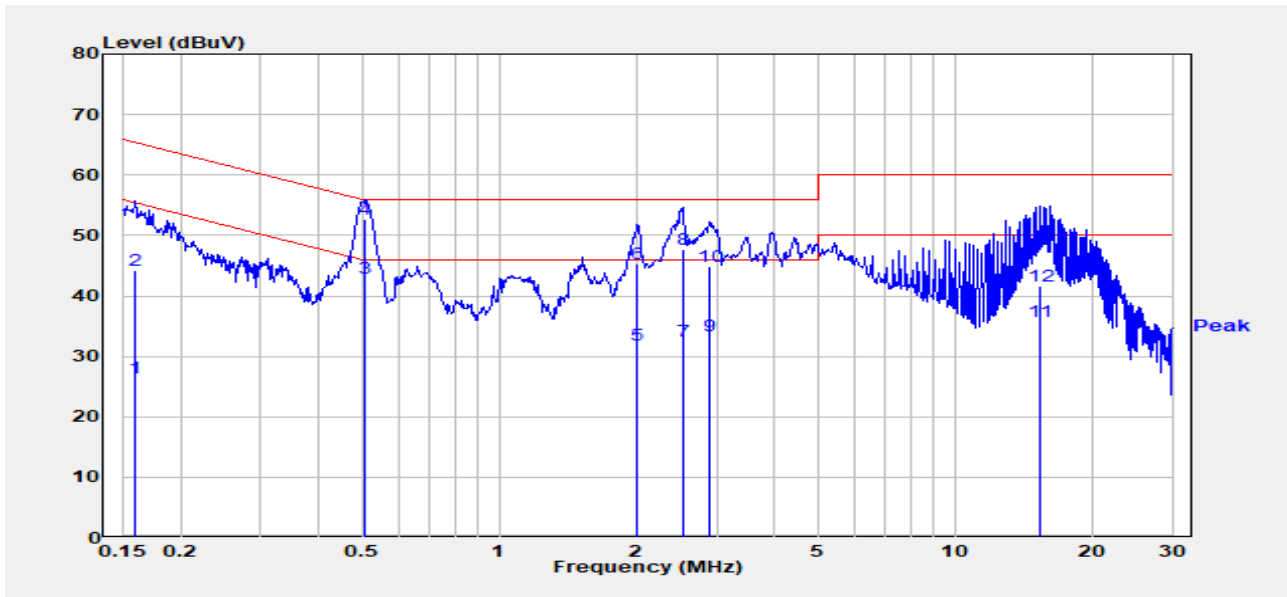
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBuV	dB	dBuV	dBuV	dB
0.160	Average	23.22	10.13	33.35	55.47	-22.12
0.160	QP	35.48	10.13	45.61	65.47	-19.86
0.507	Average	32.24	10.17	42.41	46.00	-3.59
0.507	QP	42.32	10.17	52.49	56.00	-3.51
2.012	Average	21.44	10.19	31.63	46.00	-14.37
2.012	QP	30.53	10.19	40.72	56.00	-15.28
2.513	Average	23.84	10.22	34.06	46.00	-11.94
2.513	QP	37.88	10.22	48.10	56.00	-7.90
2.946	Average	23.20	10.25	33.45	46.00	-12.55
2.946	QP	35.46	10.25	45.71	56.00	-10.29
15.146	Average	23.58	10.47	34.05	50.00	-15.95
15.146	QP	29.79	10.47	40.26	60.00	-19.74

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Report Number :TERF2310002515ER
 Operation Mode :WLAN 2.4G
 Power :120V/60Hz
 Probe :N
 Note :

Test Site :Conduction 1
 Test Date :2023-11-07
 Temp./Humi. :24.0°C/57%
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.159	Average	16.29	10.12	26.41	55.52	-29.11
0.159	QP	34.10	10.12	44.22	65.52	-21.30
0.507	Average	32.84	10.16	43.00	46.00	-3.00
0.507	QP	42.62	10.16	52.78	56.00	-3.22
2.012	Average	21.63	10.19	31.82	46.00	-14.18
2.012	QP	35.18	10.19	45.37	56.00	-10.63
2.527	Average	22.36	10.23	32.59	46.00	-13.41
2.527	QP	37.41	10.23	47.64	56.00	-8.36
2.900	Average	23.22	10.25	33.47	46.00	-12.53
2.900	QP	34.66	10.25	44.91	56.00	-11.09
15.388	Average	25.17	10.52	35.69	50.00	-14.31
15.388	QP	31.09	10.52	41.61	60.00	-18.39

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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

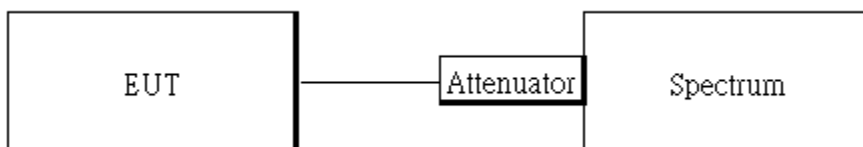
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

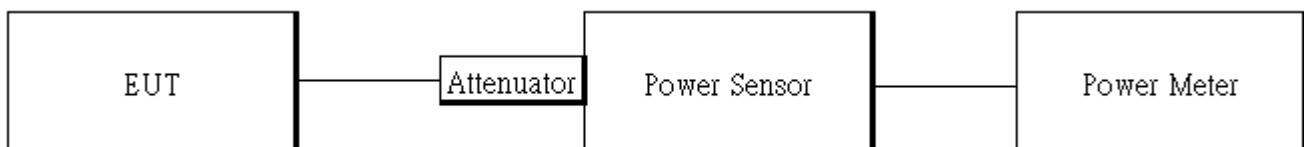
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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.**

8.4 Measurement Result

8.4.1 Duty Cycle:

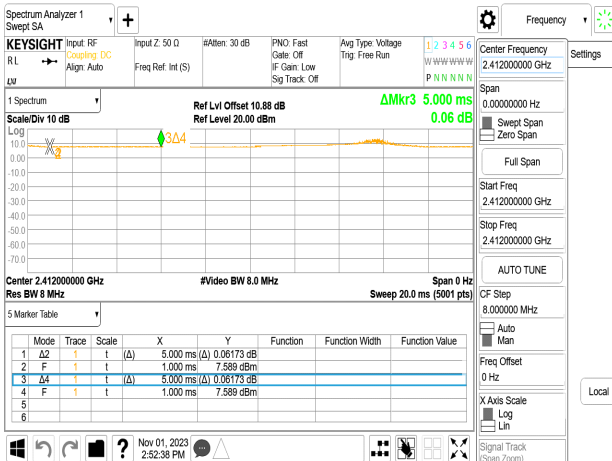
	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	100.00	0.00	0.00	0.01
802.11g	100.00	0.00	0.00	0.01
802.11n_20	100.00	0.00	0.00	0.01
802.11n_40	100.00	0.00	0.00	0.01

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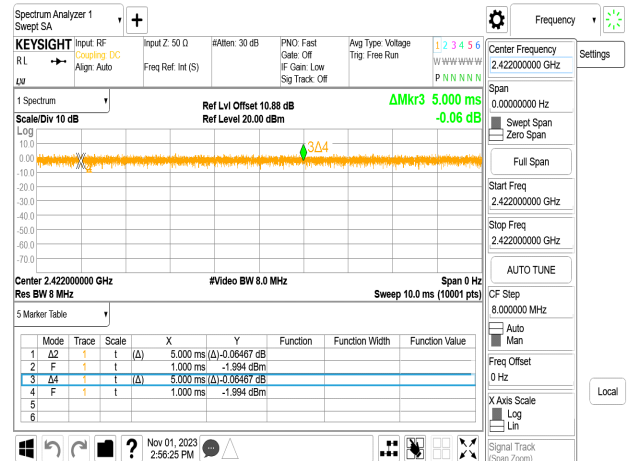
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8.4.2 Duty Cycle test plots

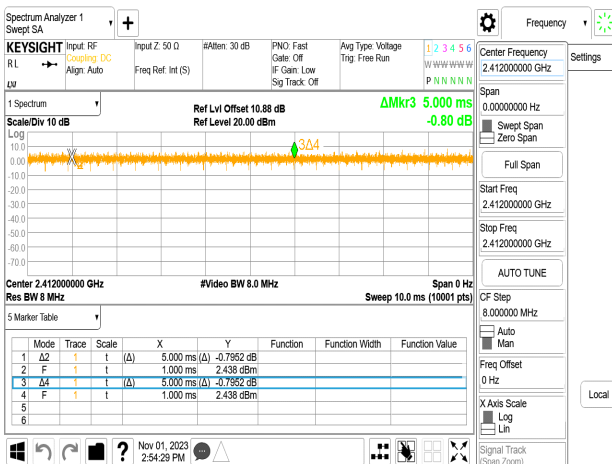
802.11b_20MHz_Chain0_2412MHz



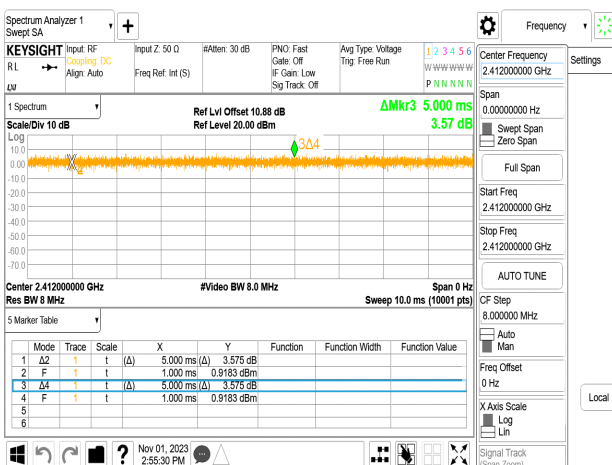
802.11n_40MHz_Chain0_2422MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



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8.4.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	12	8.70	30.00	PASS
6	2437	1	13	9.46	30.00	PASS
11	2462	1	14	10.15	30.00	PASS

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	12	6.73	30.00	PASS
6	2437	1	13	7.47	30.00	PASS
11	2462	1	14	8.16	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	12.15	30.00	PASS
6	2437	6	21	15.42	30.00	PASS
11	2462	6	21	15.78	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	3.52	30.00	PASS
6	2437	6	21	6.46	30.00	PASS
11	2462	6	21	6.79	30.00	PASS

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802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15	11.64	30.00	PASS
6	2437	MCS0	21	14.90	30.00	PASS
11	2462	MCS0	21	15.16	30.00	PASS

802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15	3.46	30.00	PASS
6	2437	MCS0	21	6.37	30.00	PASS
11	2462	MCS0	21	6.64	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	21	14.52	30.00	PASS
6	2437	MCS0	21	14.76	30.00	PASS
9	2452	MCS0	21	14.91	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	21	6.03	30.00	PASS
6	2437	MCS0	21	6.24	30.00	PASS
9	2452	MCS0	21	6.42	30.00	PASS

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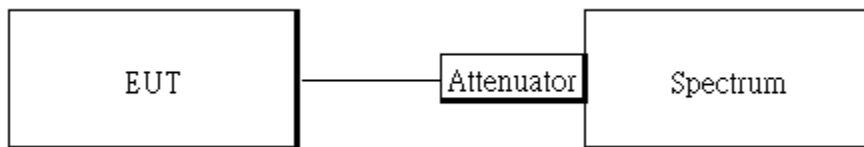
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9 EMISSION BANDWIDTH MEASUREMENT

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

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9.4 Measurement Result:

9.4.1 6dB BW measurements

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10090.00	≥ 500	PASS
2437	10090.00	≥ 500	PASS
2462	10090.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16580.00	≥ 500	PASS
2437	16580.00	≥ 500	PASS
2462	16580.00	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17770.00	≥ 500	PASS
2437	17770.00	≥ 500	PASS
2462	17780.00	≥ 500	PASS

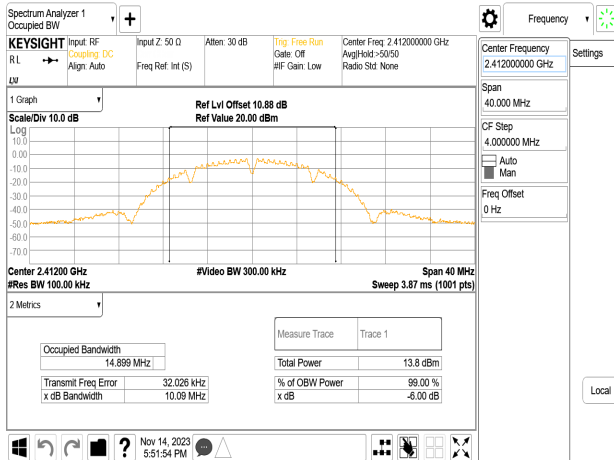
802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36450.00	≥ 500	PASS
2437	36440.00	≥ 500	PASS
2452	36450.00	≥ 500	PASS

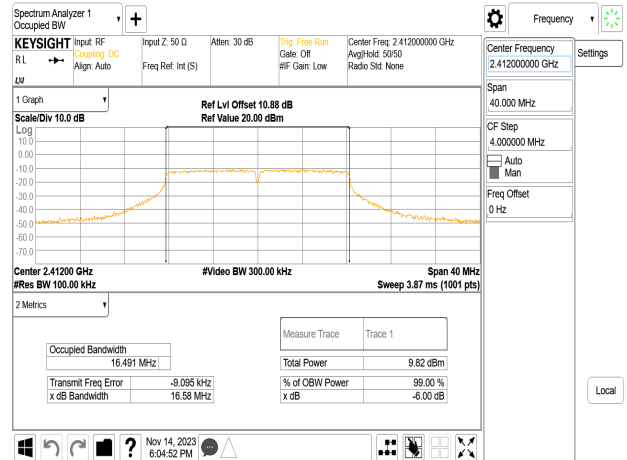
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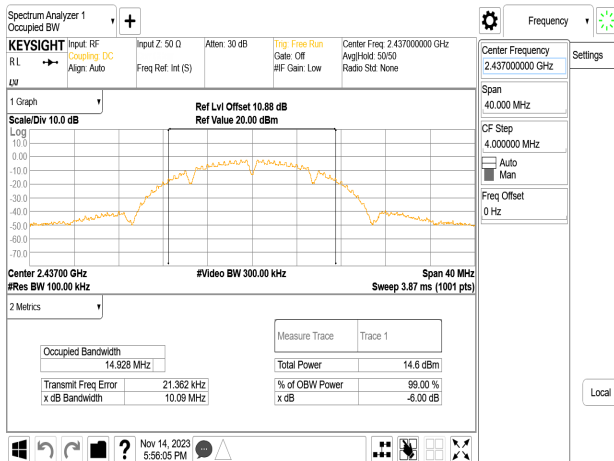
802.11b_20MHz_Chain0_2412MHz



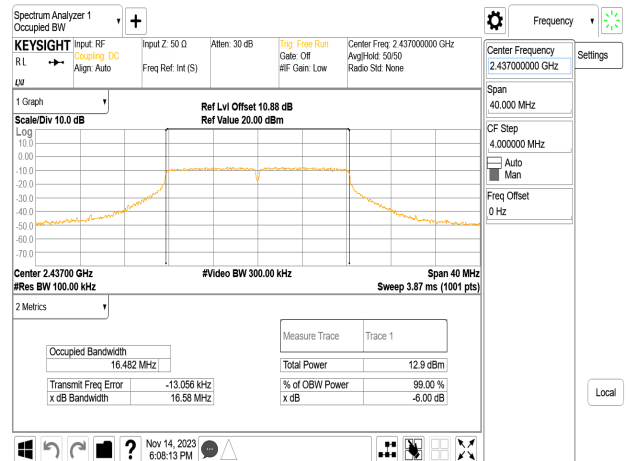
802.11g_20MHz_Chain0_2412MHz



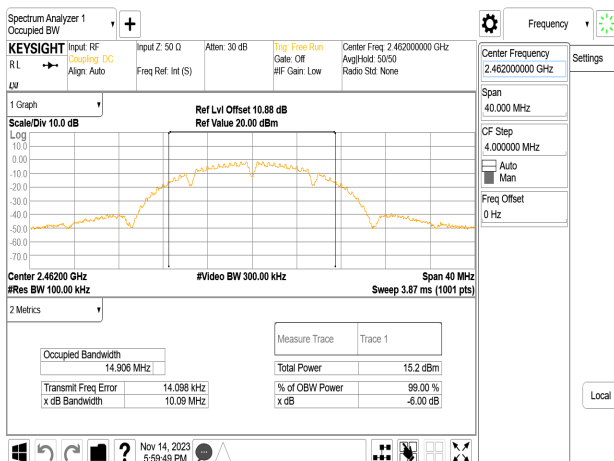
802.11b_20MHz_Chain0_2437MHz



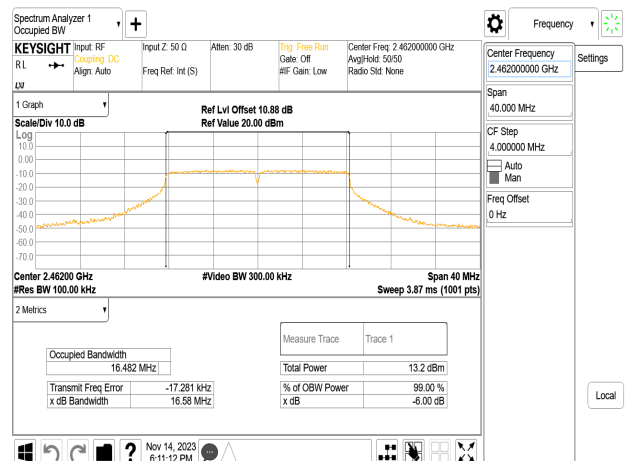
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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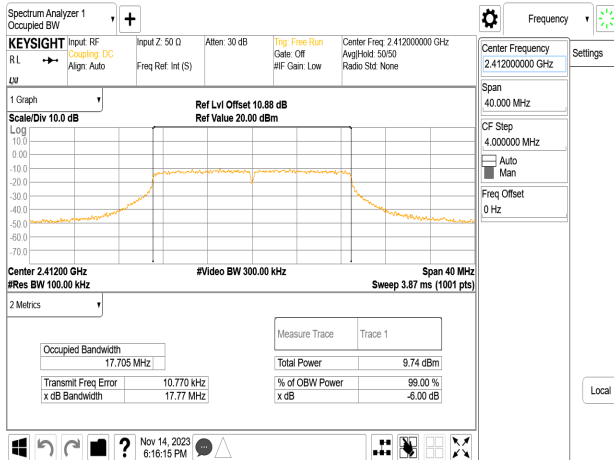
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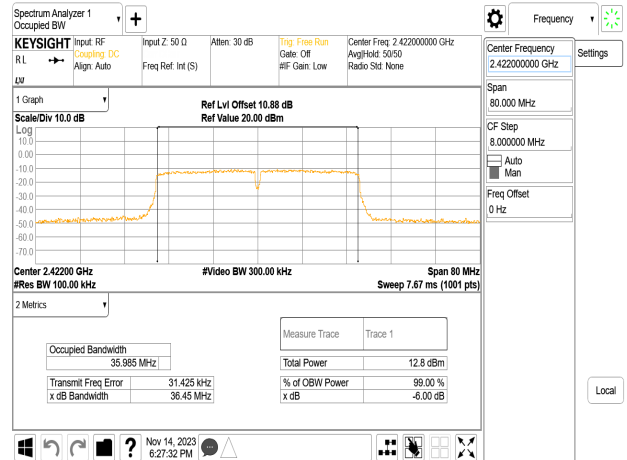
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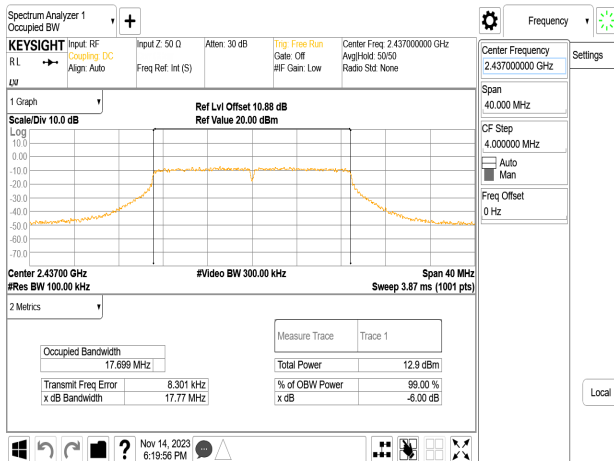
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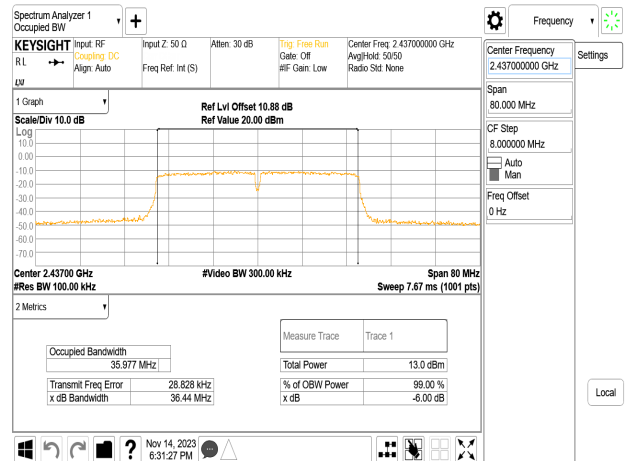
802.11n_40MHz_Chain0_2422MHz



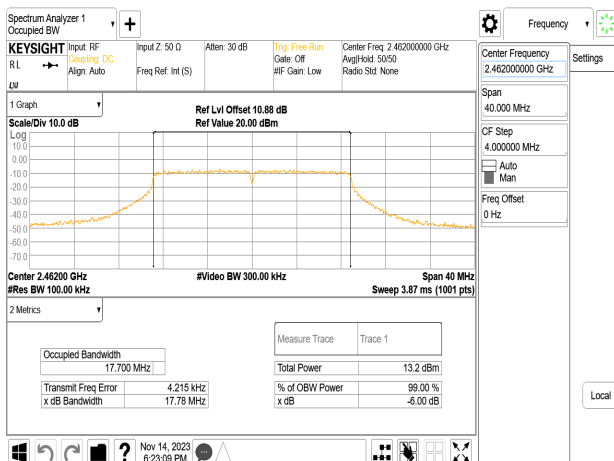
802.11n_20MHz_Chain0_2437MHz



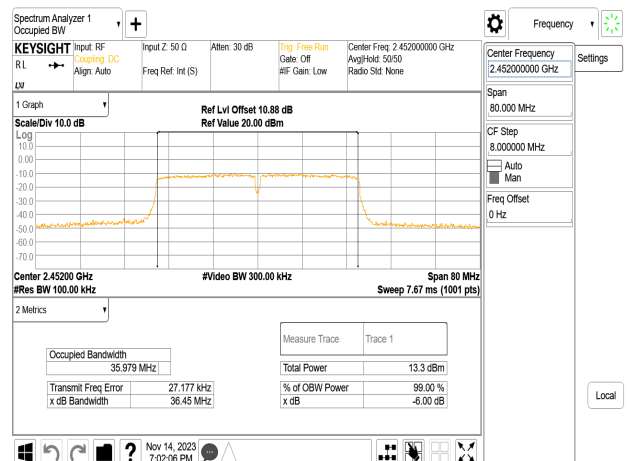
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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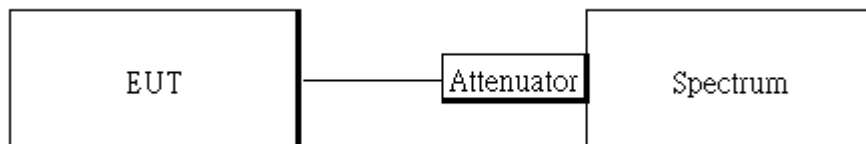
10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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 -20 dBm
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			Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	-3.14	-23.14	2412	-10.72	-30.72
2437	-2.33	-22.33	2437	-7.65	-27.65
2462	-1.62	-21.62	2462	-7.37	-27.37

802.11g Ch0

802.11n_HT_20M Ch0

Reference Level of Limit			Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	-10.51	-30.51	2422	-10.95	-30.95
2437	-7.24	-27.24	2437	-10.64	-30.64
2462	-6.92	-26.92	2452	-10.3	-30.30

802.11n_HT_40M Ch0

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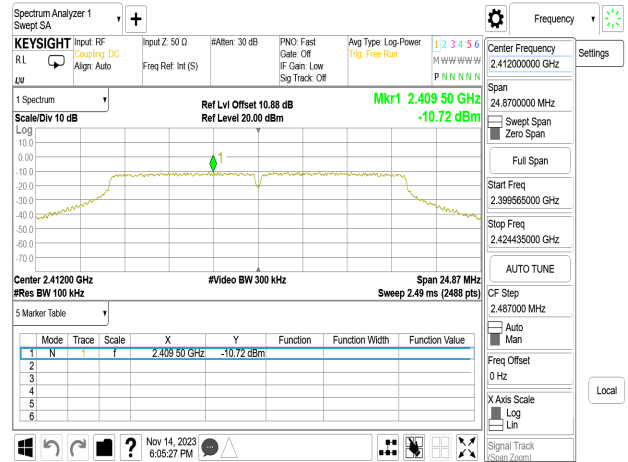
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802.11b_20MHz_Chain0_2412MHz



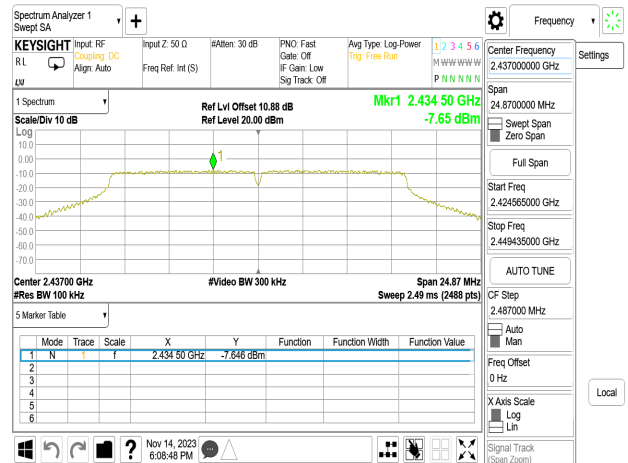
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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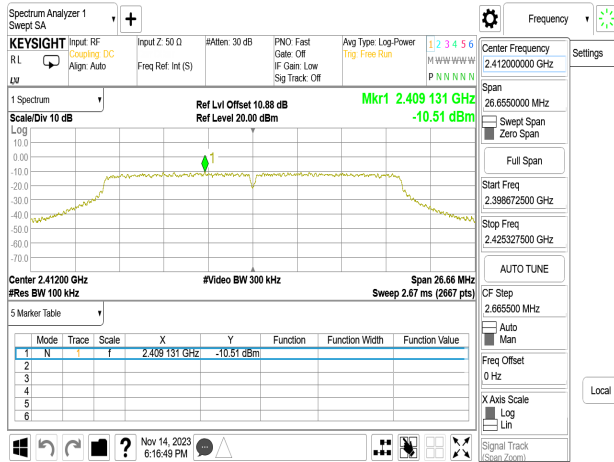
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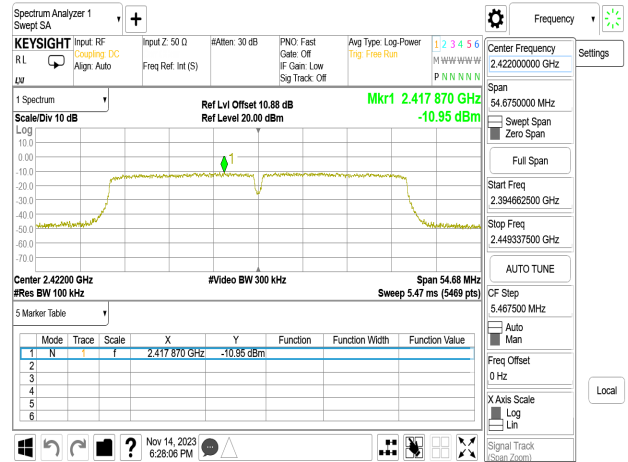
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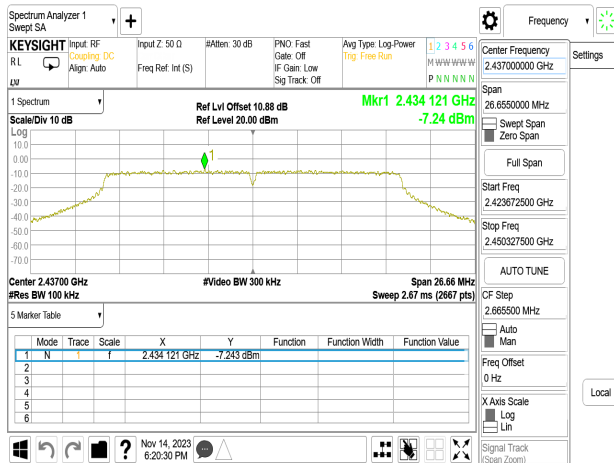
802.11n_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain0_2422MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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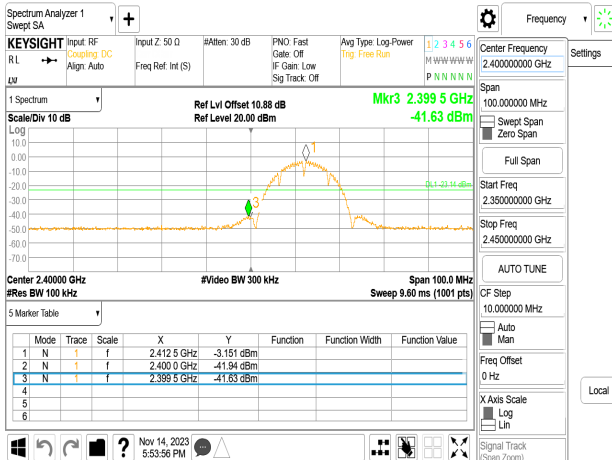
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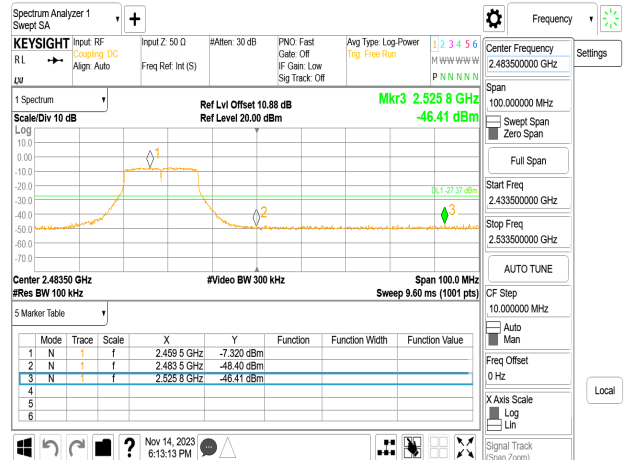
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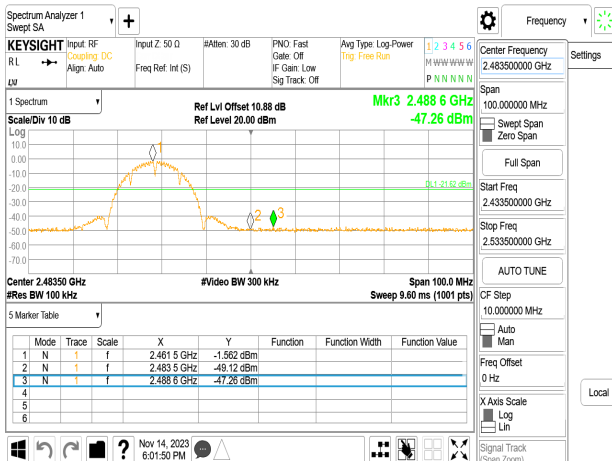
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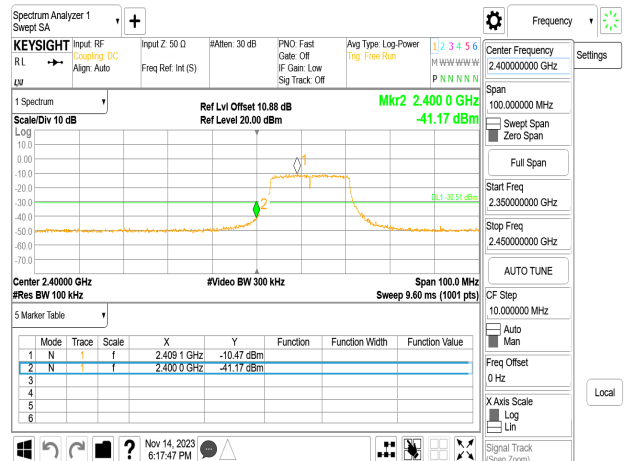
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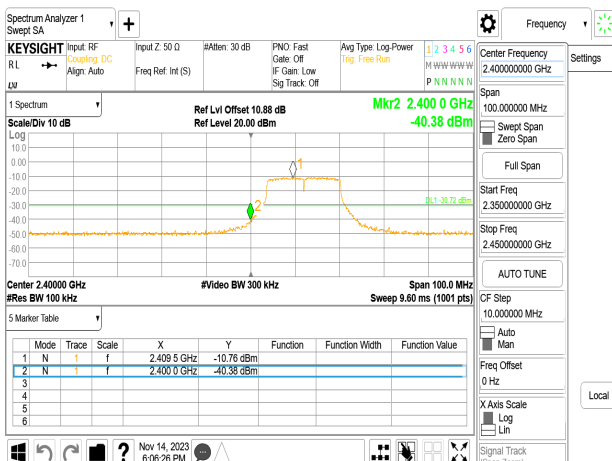
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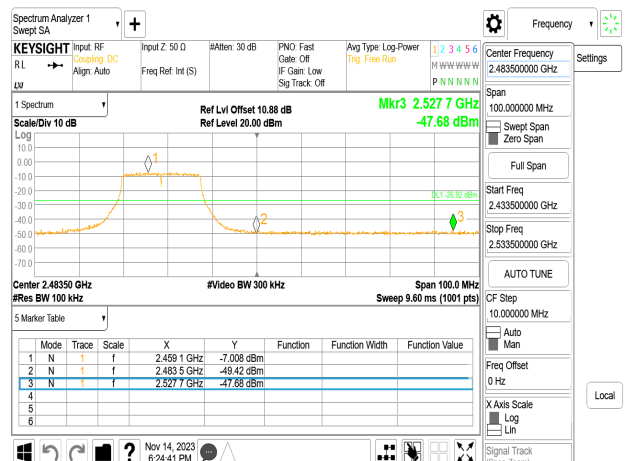
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802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2462MHz



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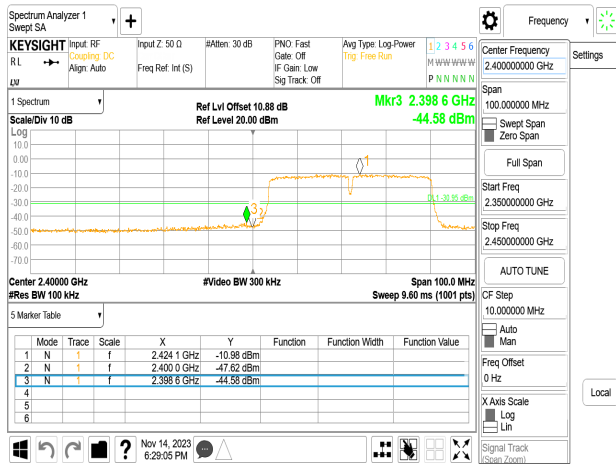
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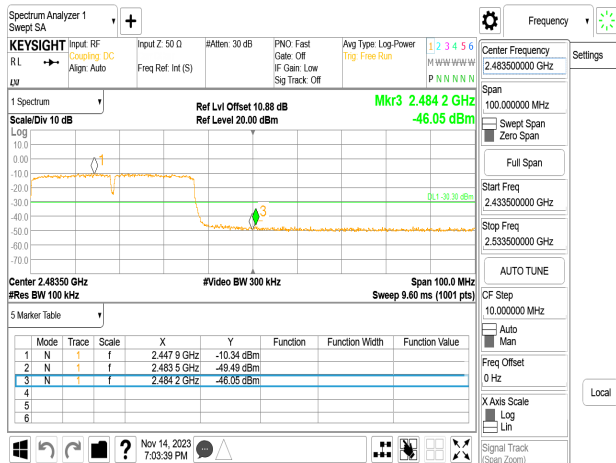
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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2452MHz

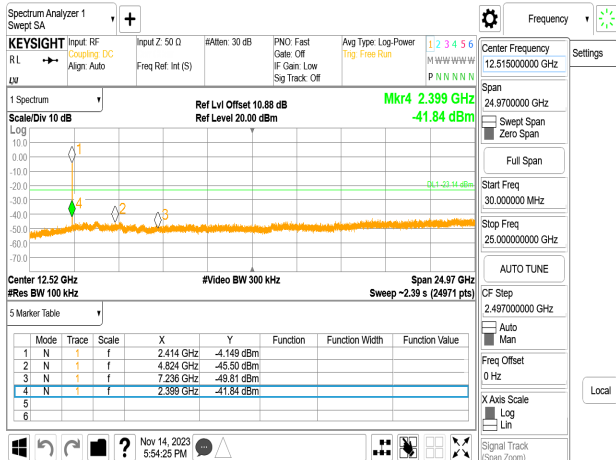


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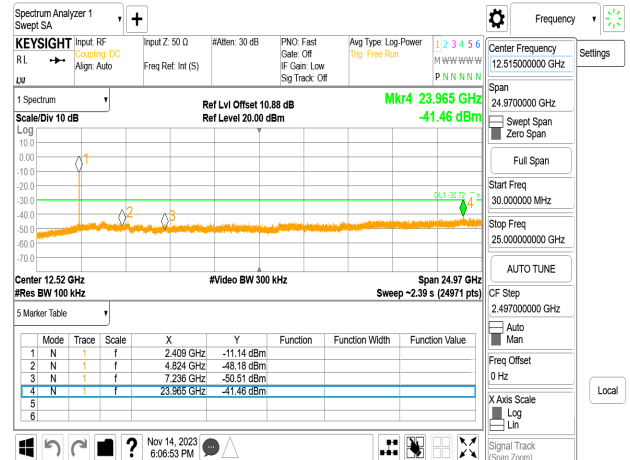
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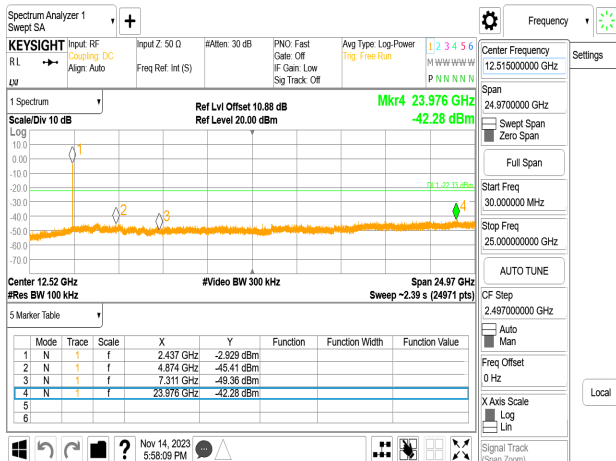
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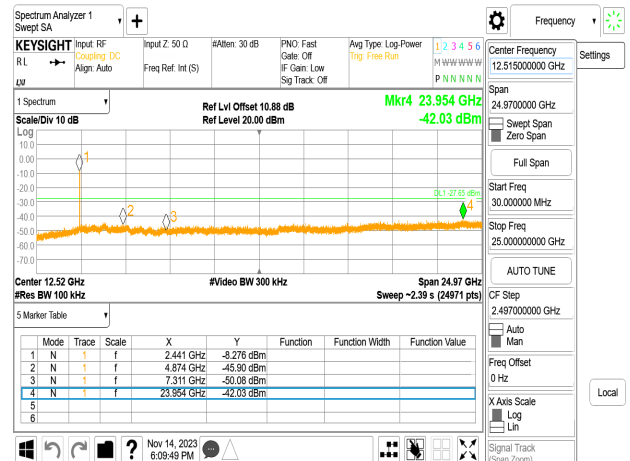
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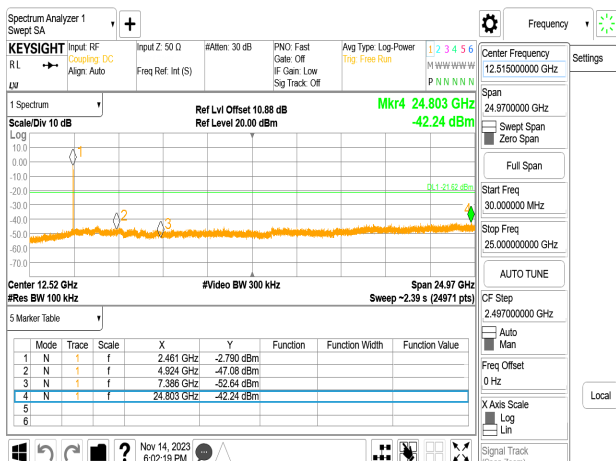
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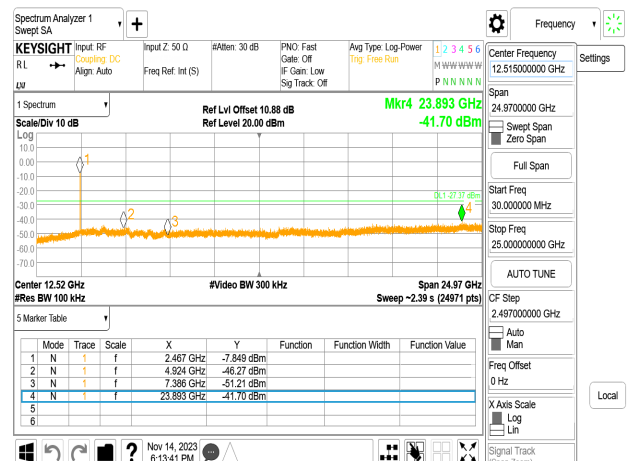
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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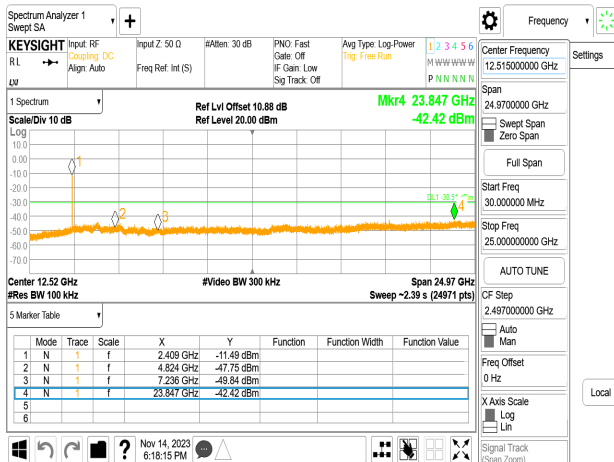
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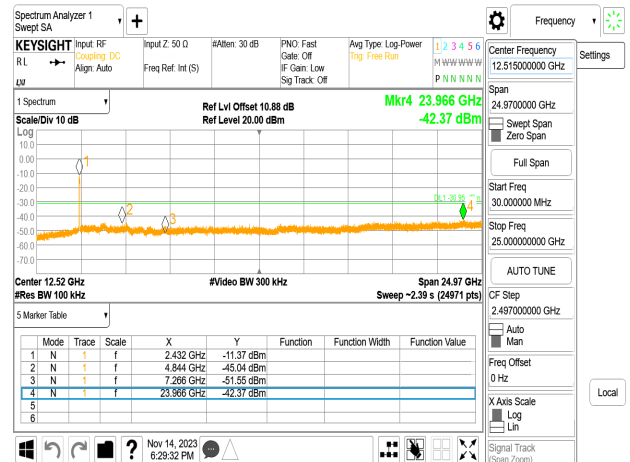
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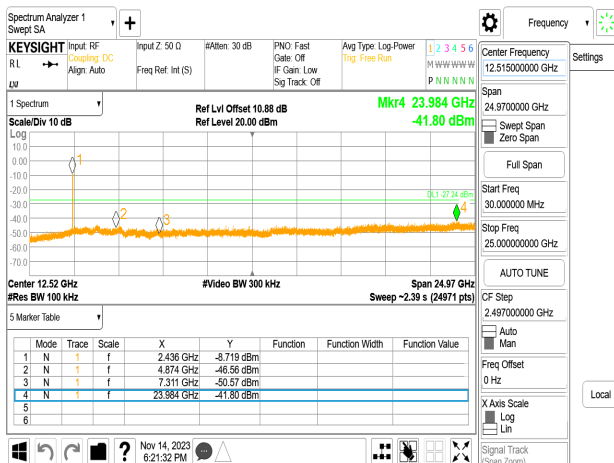
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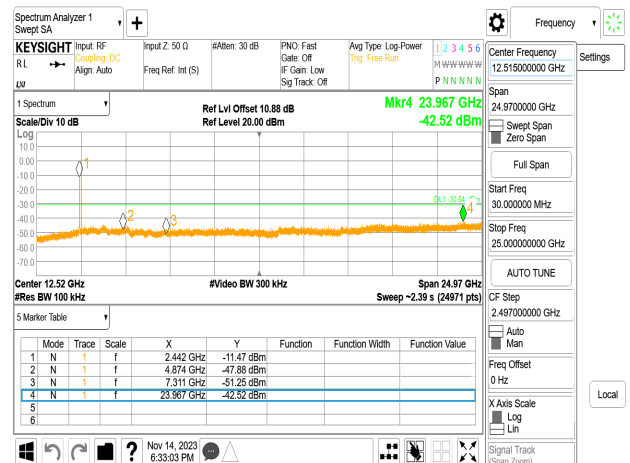
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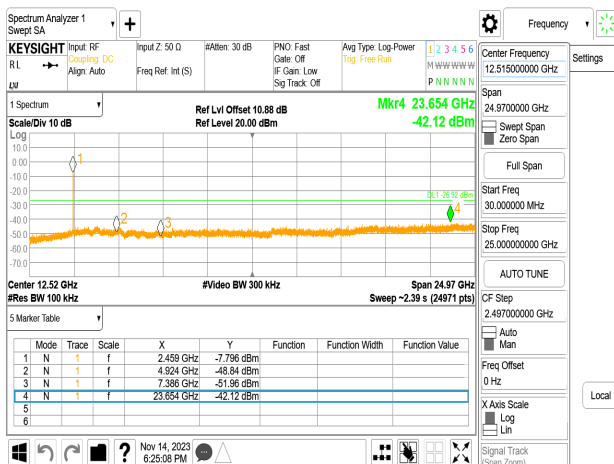
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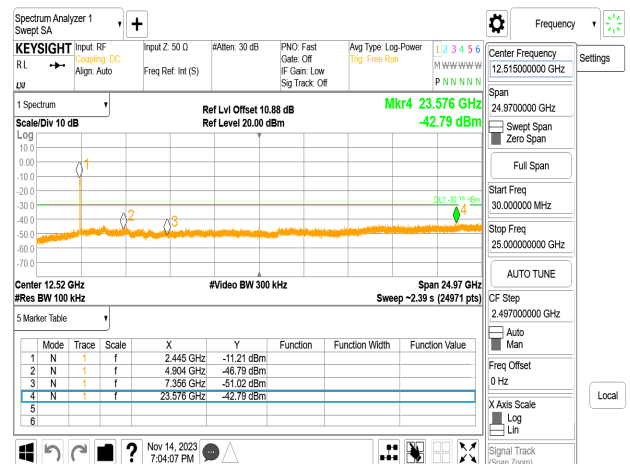
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

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

Note:

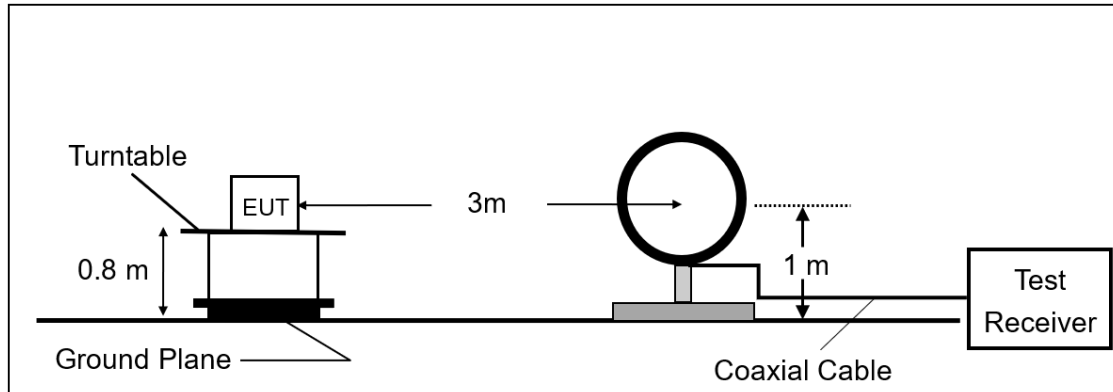
1. The lower limit shall apply at the transition frequencies.

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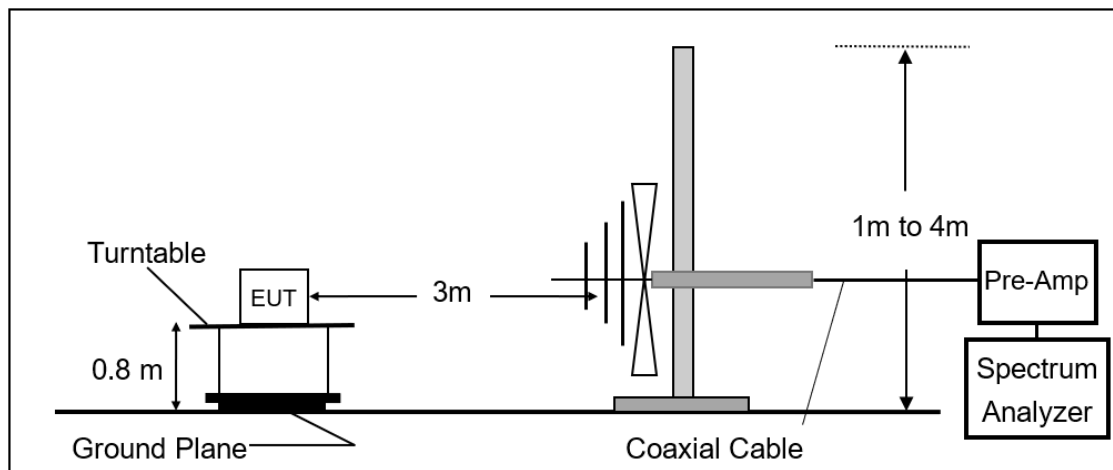
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11.2 Test Setup

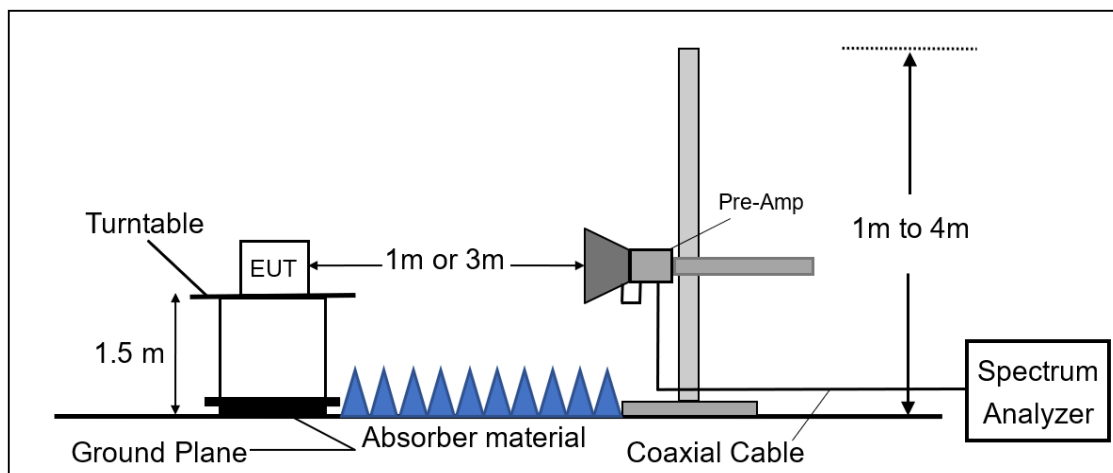
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

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

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

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

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

Factor(dB) = Antenna Factor(dBμV/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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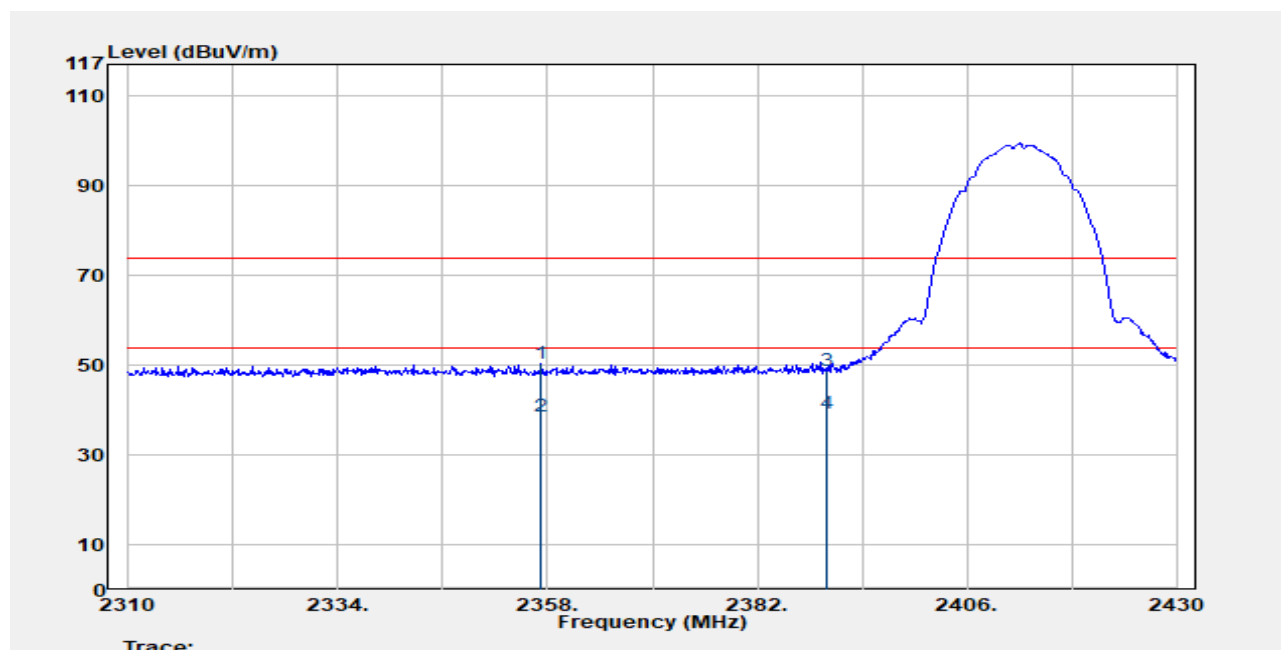
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11.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



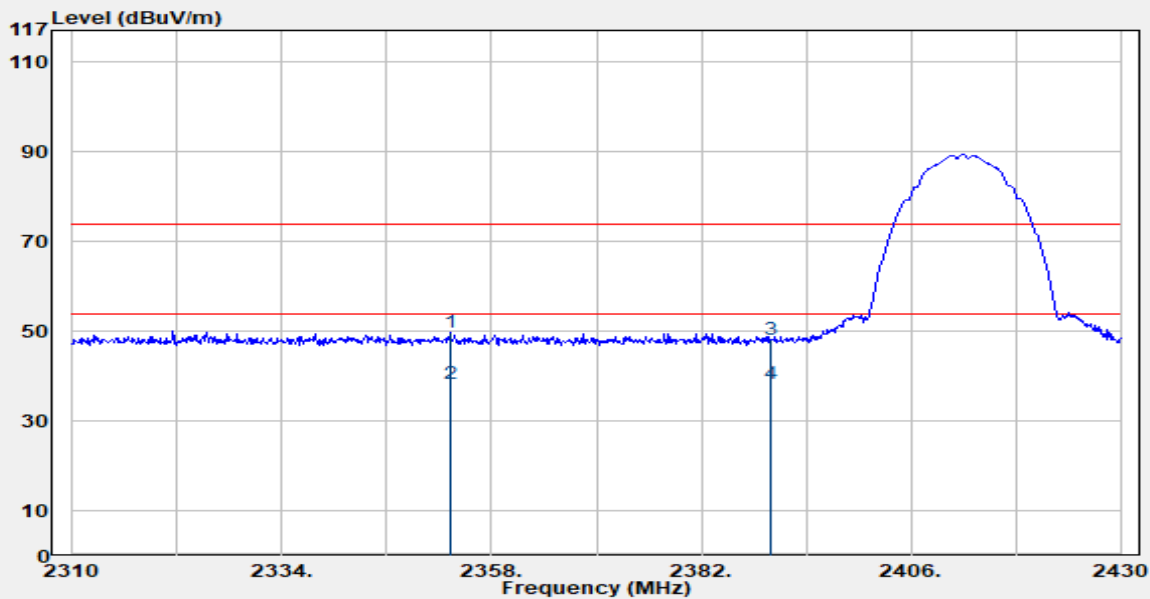
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2357.280	Peak	54.96	-4.59	50.37	74.00	-23.63
2357.280	Average	43.28	-4.59	38.69	54.00	-15.31
2390.000	Peak	53.35	-4.64	48.70	74.00	-25.30
2390.000	Average	44.01	-4.64	39.37	54.00	-14.63

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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



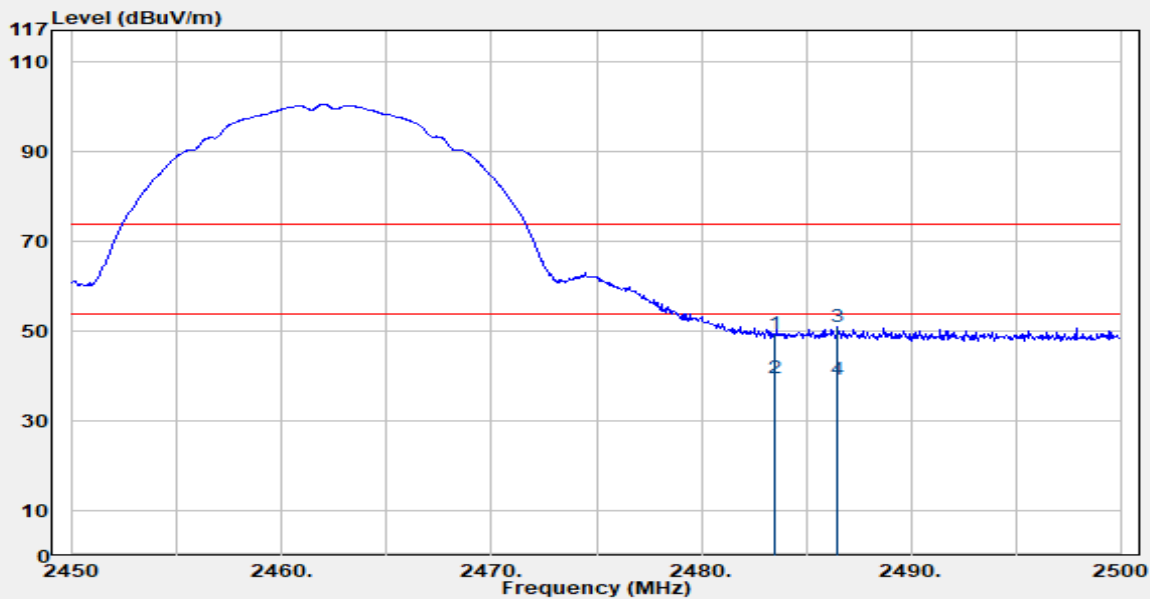
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2353.200	Peak	54.48	-4.58	49.89	74.00	-24.11
2353.200	Average	42.95	-4.58	38.37	54.00	-15.63
2390.000	Peak	52.69	-4.64	48.04	74.00	-25.96
2390.000	Average	43.02	-4.64	38.38	54.00	-15.62

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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



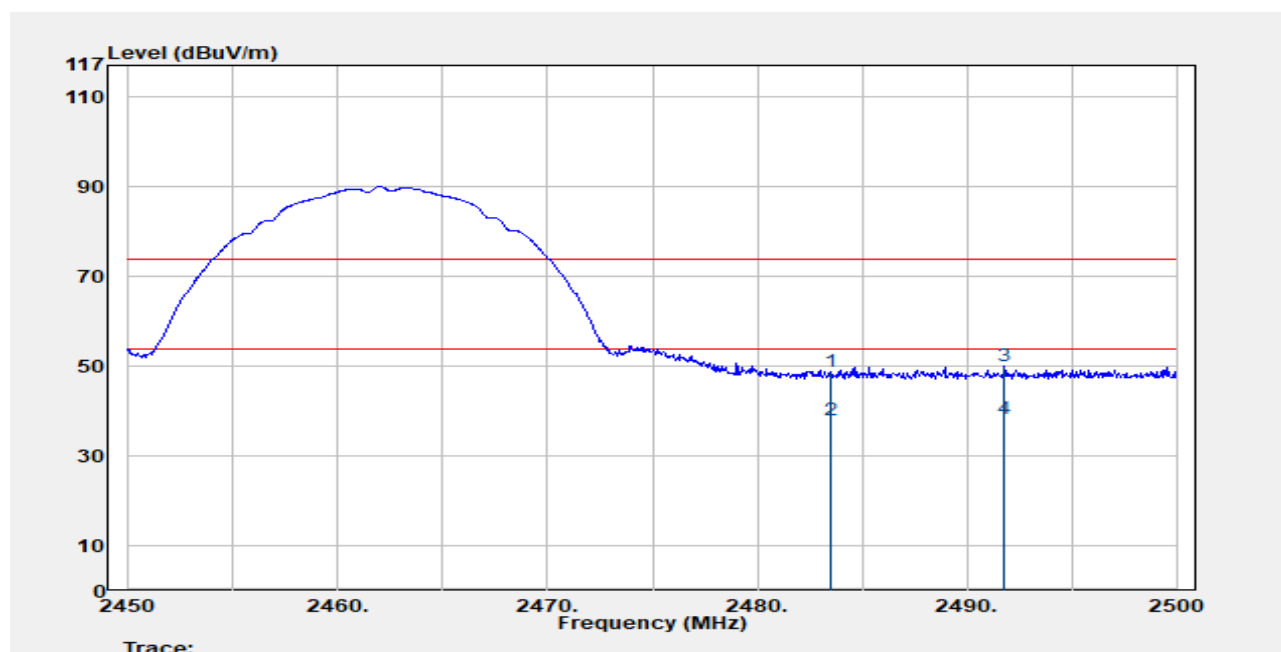
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.24	-4.85	49.39	74.00	-24.61
2483.500	Average	44.41	-4.85	39.56	54.00	-14.44
2486.500	Peak	55.84	-4.85	51.00	74.00	-23.00
2486.500	Average	44.15	-4.85	39.30	54.00	-14.70

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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.59	-4.85	48.74	74.00	-25.26
2483.500	Average	42.98	-4.85	38.13	54.00	-15.87
2491.800	Peak	54.80	-4.84	49.96	74.00	-24.04
2491.800	Average	43.11	-4.84	38.27	54.00	-15.73

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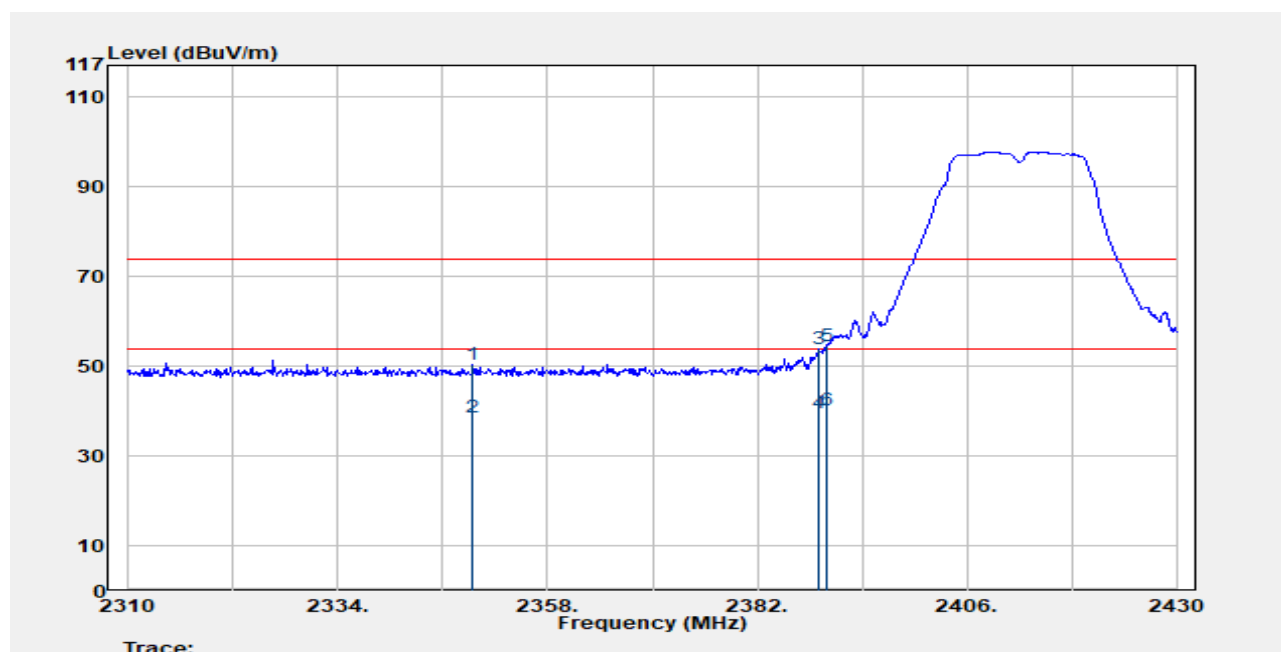
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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2349.360	Peak	55.01	-4.58	50.43	74.00	-23.57
2349.360	Average	43.17	-4.58	38.59	54.00	-15.41
2388.960	Peak	58.55	-4.64	53.91	74.00	-20.09
2388.960	Average	44.32	-4.64	39.68	54.00	-14.32
2390.000	Peak	59.06	-4.64	54.41	74.00	-19.59
2390.000	Average	44.96	-4.64	40.32	54.00	-13.68

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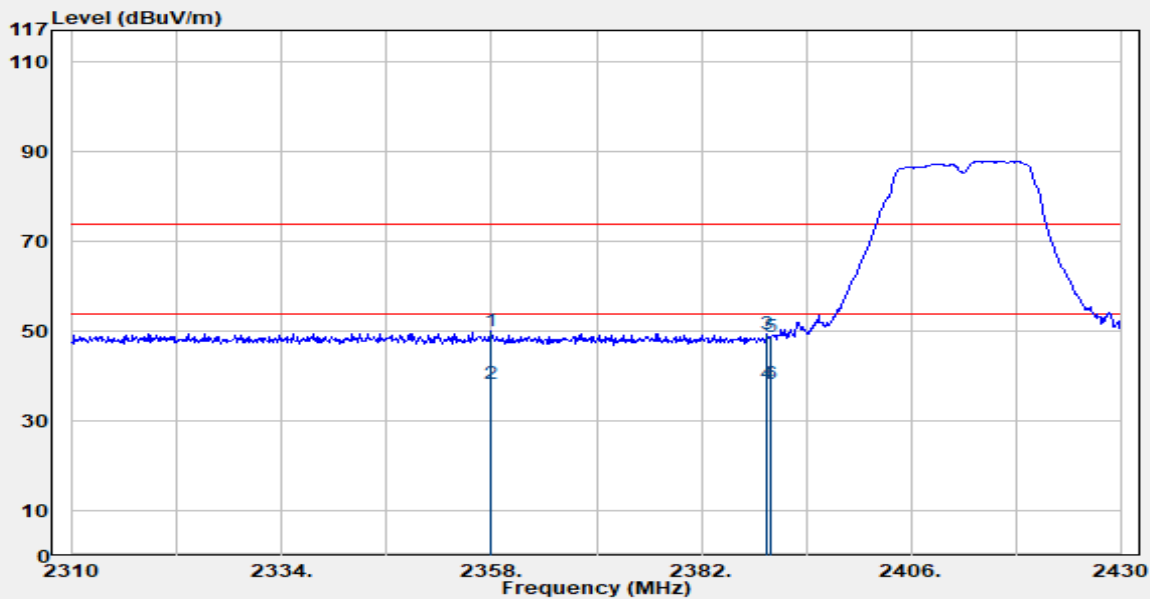
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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2358.000	Peak	54.58	-4.59	49.99	74.00	-24.01
2358.000	Average	42.97	-4.59	38.38	54.00	-15.62
2389.560	Peak	54.24	-4.64	49.59	74.00	-24.41
2389.560	Average	43.08	-4.64	38.44	54.00	-15.56
2390.000	Peak	53.47	-4.64	48.82	74.00	-25.18
2390.000	Average	43.14	-4.64	38.50	54.00	-15.50

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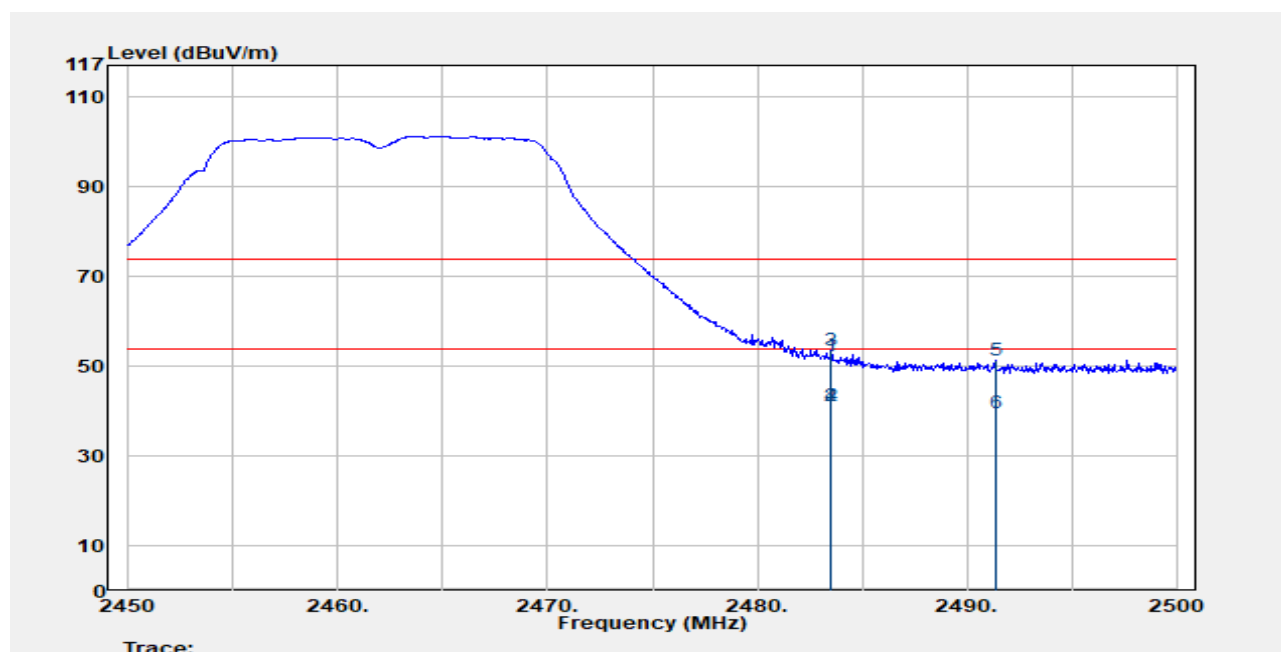
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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	57.05	-4.85	52.20	74.00	-21.80
2483.500	Average	46.01	-4.85	41.16	54.00	-12.84
2483.550	Peak	58.46	-4.85	53.61	74.00	-20.39
2483.550	Average	45.99	-4.85	41.14	54.00	-12.86
2491.350	Peak	56.32	-4.84	51.48	74.00	-22.52
2491.350	Average	44.63	-4.84	39.79	54.00	-14.21

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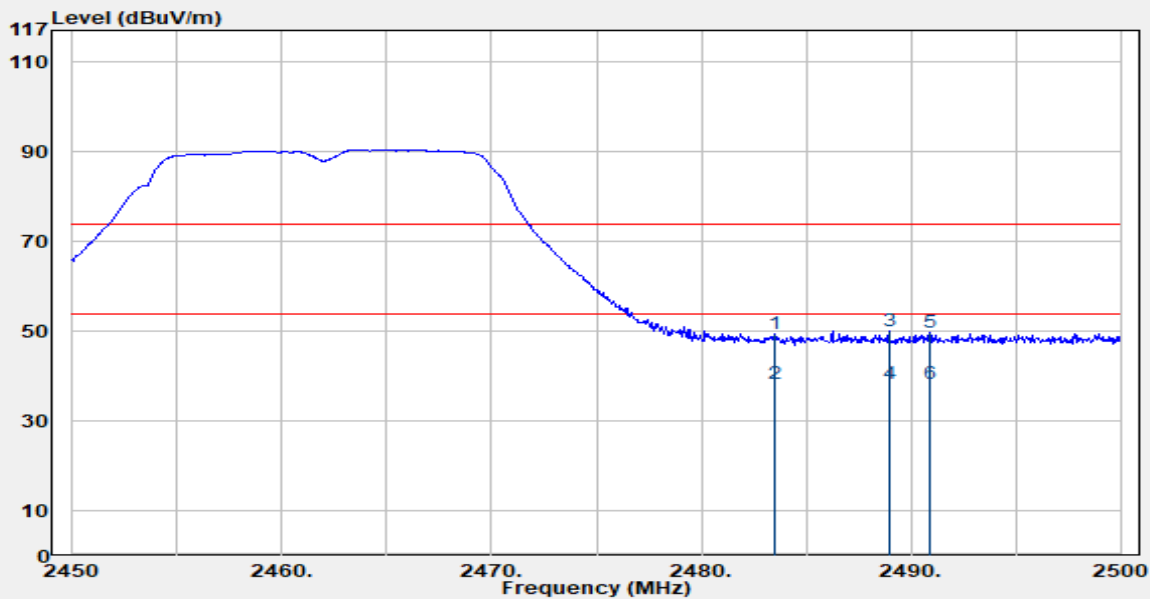
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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.40	-4.85	49.55	74.00	-24.45
2483.500	Average	43.24	-4.85	38.39	54.00	-15.61
2488.950	Peak	54.98	-4.84	50.13	74.00	-23.87
2488.950	Average	43.16	-4.84	38.32	54.00	-15.68
2490.900	Peak	54.64	-4.84	49.80	74.00	-24.20
2490.900	Average	43.19	-4.84	38.35	54.00	-15.65

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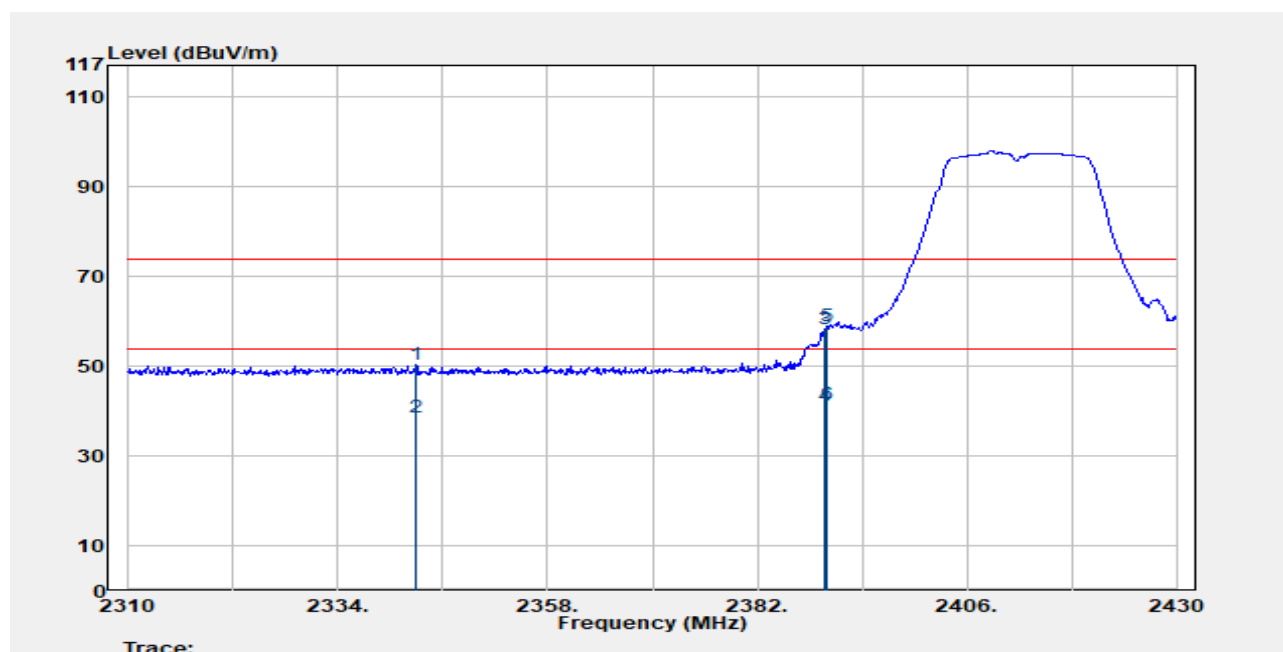
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2342.880	Peak	55.02	-4.57	50.45	74.00	-23.55
2342.880	Average	43.20	-4.57	38.63	54.00	-15.37
2389.680	Peak	63.10	-4.64	58.46	74.00	-15.54
2389.680	Average	45.93	-4.64	41.29	54.00	-12.71
2390.000	Peak	63.46	-4.64	58.82	74.00	-15.18
2390.000	Average	46.21	-4.64	41.57	54.00	-12.43

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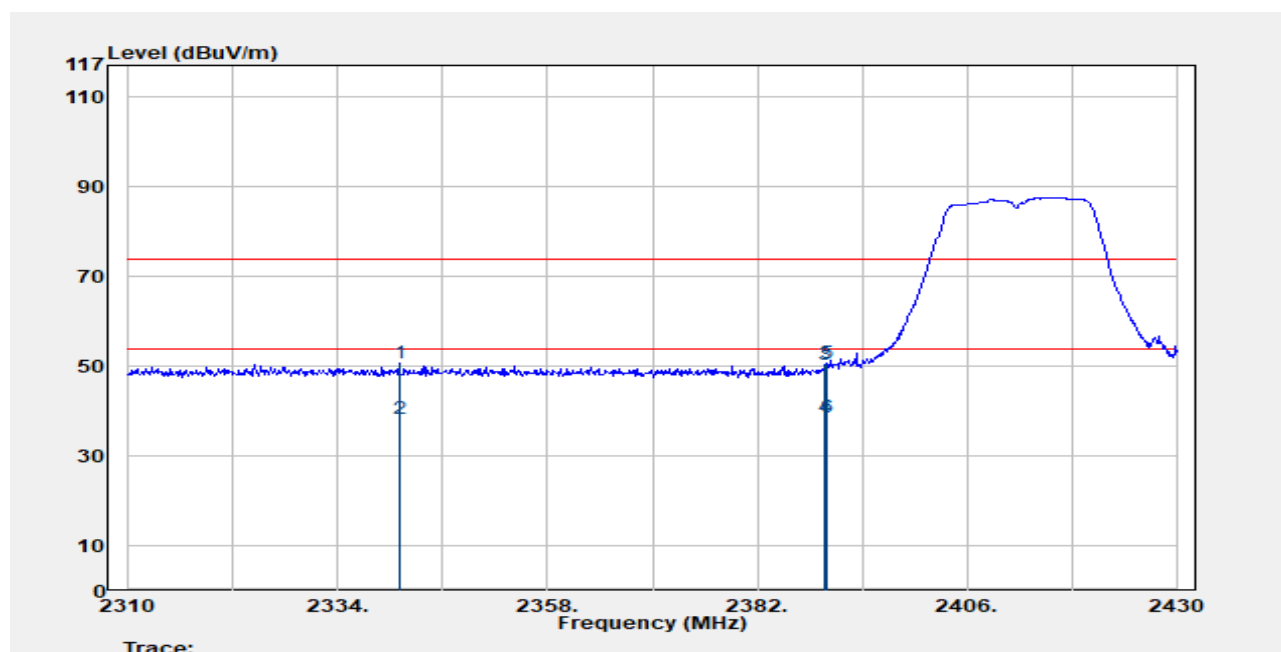
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2340.960	Peak	55.18	-4.57	50.61	74.00	-23.39
2340.960	Average	42.92	-4.57	38.35	54.00	-15.65
2389.800	Peak	55.21	-4.64	50.56	74.00	-23.44
2389.800	Average	43.21	-4.64	38.57	54.00	-15.43
2390.000	Peak	55.27	-4.64	50.63	74.00	-23.37
2390.000	Average	43.26	-4.64	38.62	54.00	-15.38

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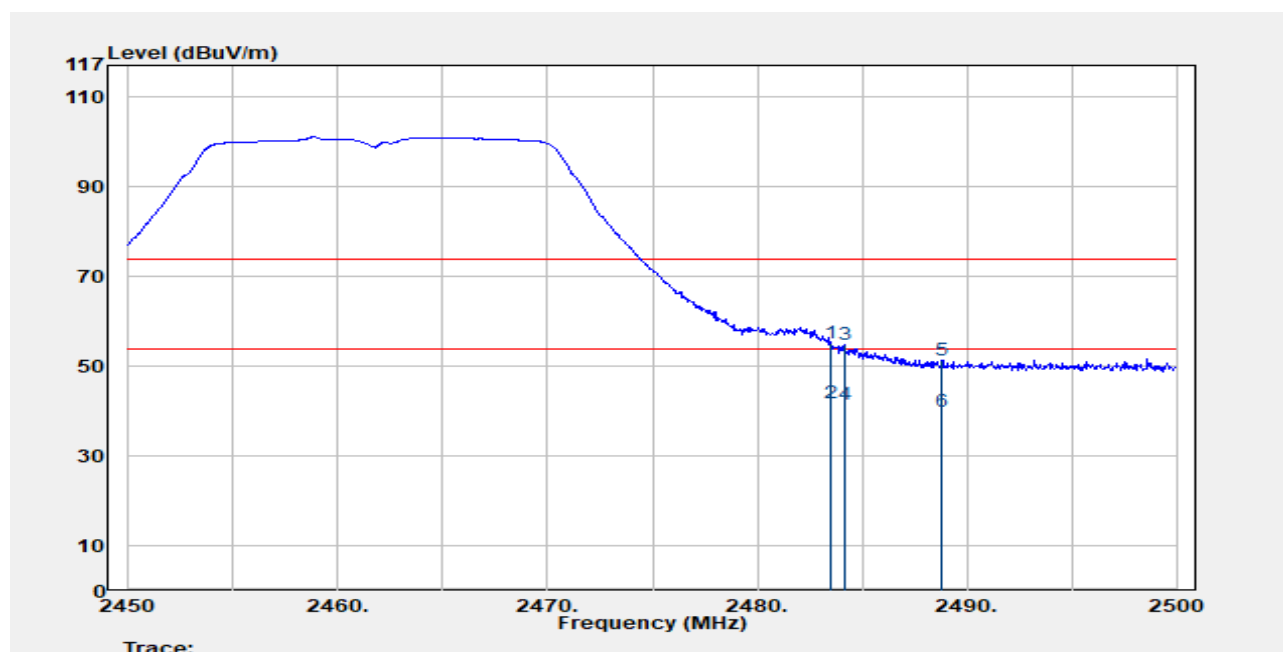
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	60.18	-4.85	55.33	74.00	-18.67
2483.500	Average	46.65	-4.85	41.80	54.00	-12.20
2484.150	Peak	59.81	-4.85	54.96	74.00	-19.04
2484.150	Average	46.30	-4.85	41.45	54.00	-12.55
2488.800	Peak	56.19	-4.84	51.35	74.00	-22.65
2488.800	Average	44.83	-4.84	39.99	54.00	-14.01

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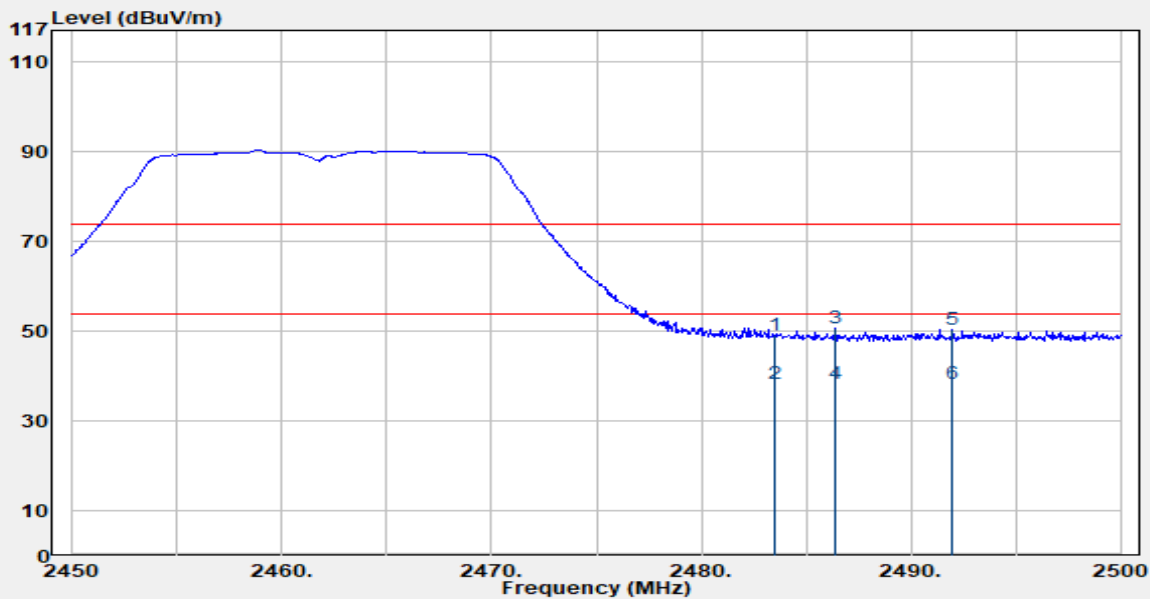
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.84	-4.85	48.99	74.00	-25.01
2483.500	Average	43.33	-4.85	38.48	54.00	-15.52
2486.400	Peak	55.46	-4.85	50.62	74.00	-23.38
2486.400	Average	43.17	-4.85	38.32	54.00	-15.68
2492.000	Peak	55.35	-4.84	50.51	74.00	-23.49
2492.000	Average	43.12	-4.84	38.28	54.00	-15.72

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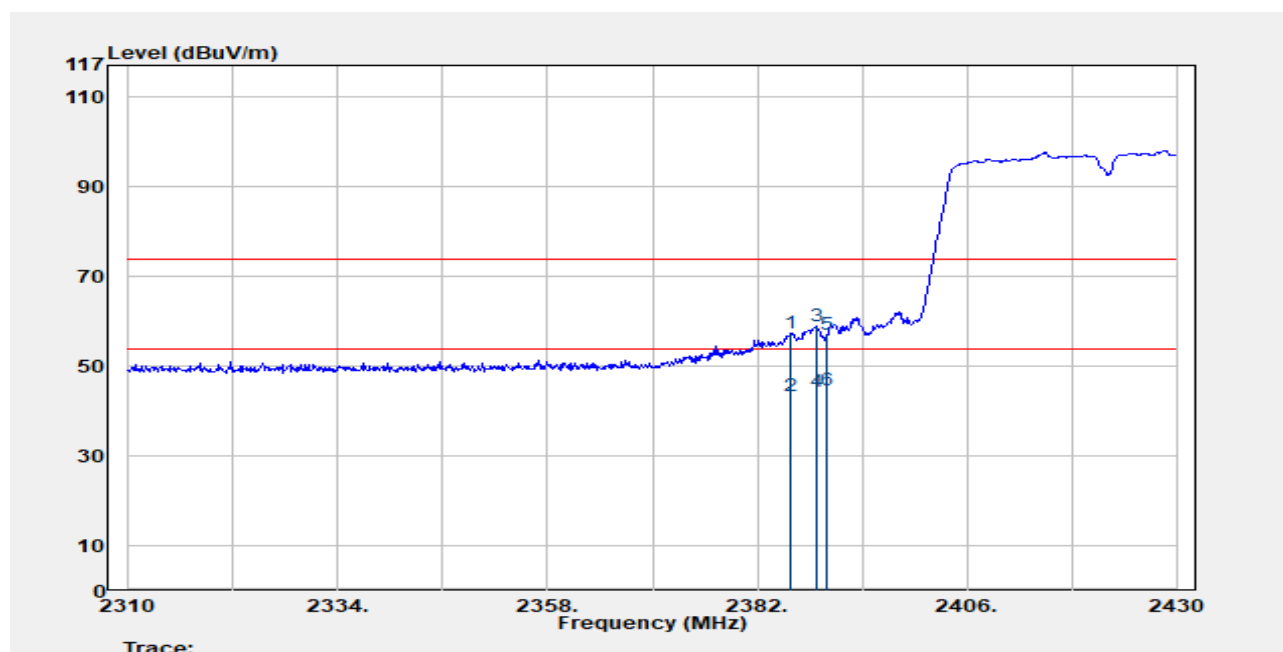
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2385.840	Peak	62.01	-4.64	57.37	74.00	-16.63
2385.840	Average	48.18	-4.64	43.54	54.00	-10.46
2388.840	Peak	63.69	-4.64	59.05	74.00	-14.95
2388.840	Average	49.08	-4.64	44.44	54.00	-9.56
2390.000	Peak	61.85	-4.64	57.20	74.00	-16.80
2390.000	Average	49.30	-4.64	44.66	54.00	-9.34

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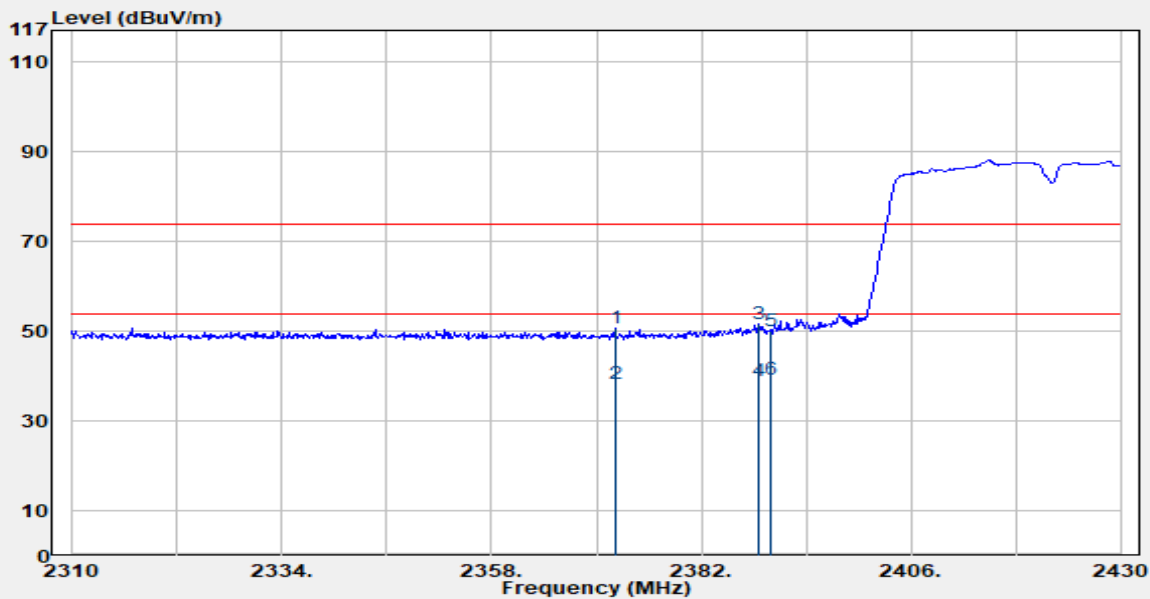
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2372.160	Peak	55.19	-4.62	50.58	74.00	-23.42
2372.160	Average	42.97	-4.62	38.35	54.00	-15.65
2388.480	Peak	56.19	-4.64	51.54	74.00	-22.46
2388.480	Average	43.73	-4.64	39.09	54.00	-14.91
2390.000	Peak	54.80	-4.64	50.15	74.00	-23.85
2390.000	Average	43.92	-4.64	39.28	54.00	-14.72

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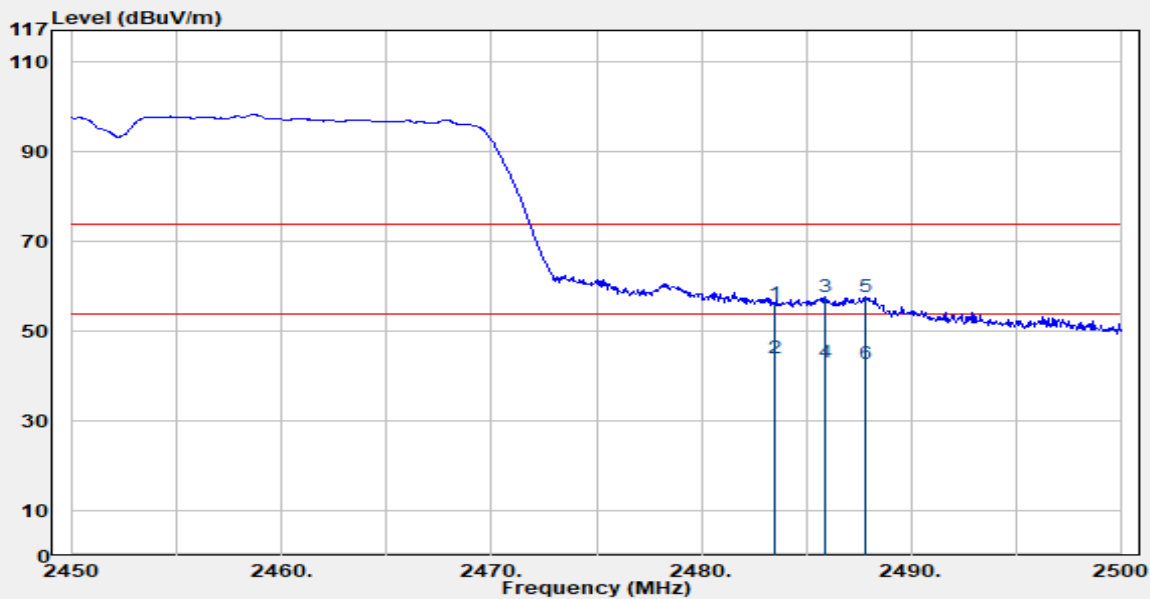
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	60.95	-4.85	56.10	74.00	-17.90
2483.500	Average	49.05	-4.85	44.20	54.00	-9.80
2485.950	Peak	62.64	-4.85	57.79	74.00	-16.21
2485.950	Average	48.11	-4.85	43.26	54.00	-10.74
2487.800	Peak	62.54	-4.85	57.69	74.00	-16.31
2487.800	Average	47.74	-4.85	42.89	54.00	-11.11

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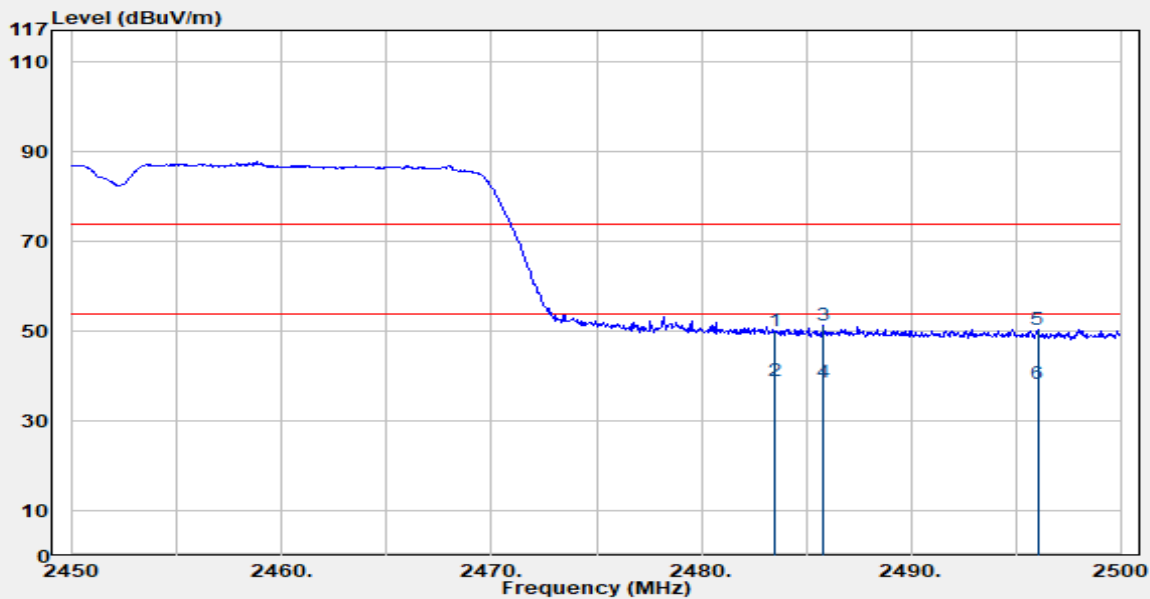
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-09
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.84	-4.85	49.98	74.00	-24.02
2483.500	Average	43.85	-4.85	39.00	54.00	-15.00
2485.850	Peak	56.15	-4.85	51.31	74.00	-22.69
2485.850	Average	43.63	-4.85	38.78	54.00	-15.22
2496.050	Peak	55.21	-4.84	50.37	74.00	-23.63
2496.050	Average	43.27	-4.84	38.43	54.00	-15.57

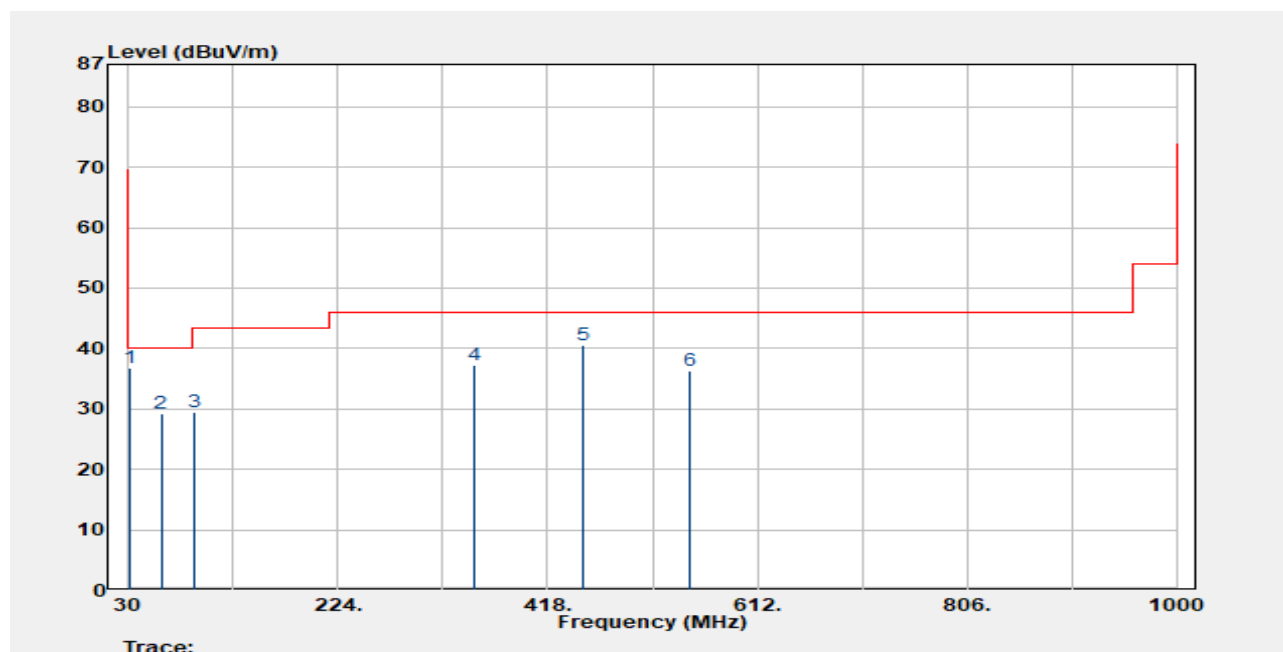
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11.6.2 Spurious Emission:

Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



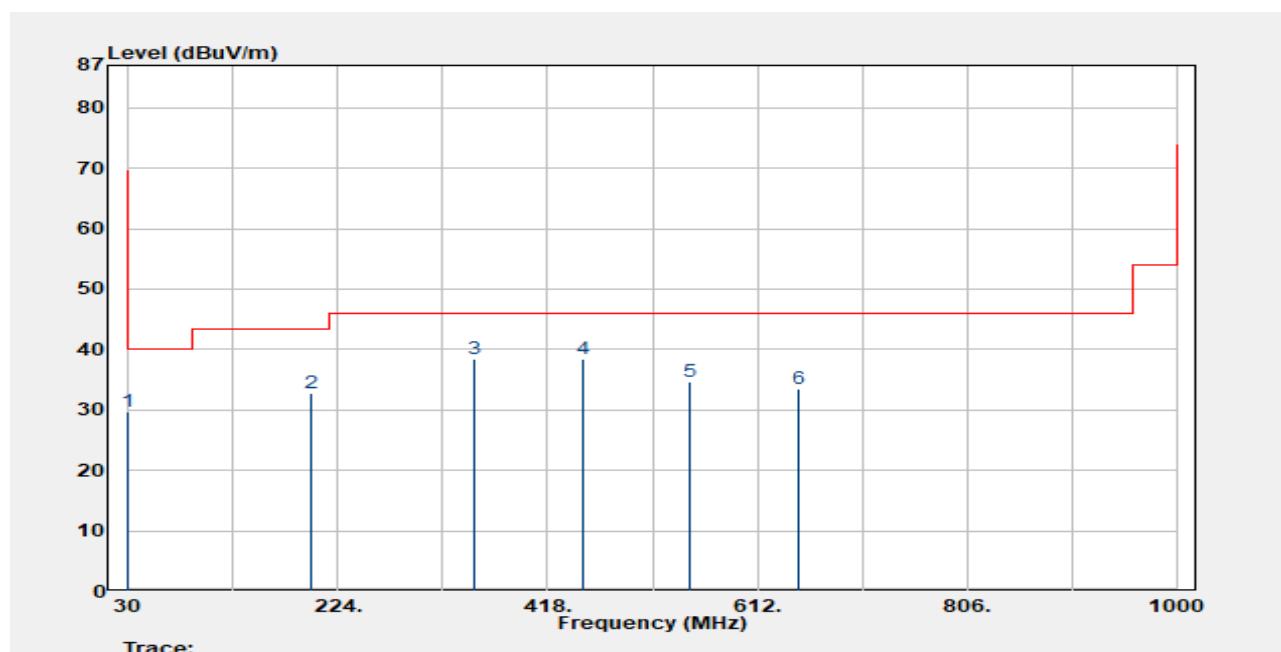
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.970	QP	47.02	-10.21	36.81	40.00	-3.19
60.070	QP	38.56	-9.32	29.24	40.00	-10.76
91.110	Peak	43.74	-14.34	29.40	43.50	-14.10
350.000	QP	43.69	-6.42	37.27	46.00	-8.73
450.000	QP	44.67	-4.08	40.59	46.00	-5.41
550.000	QP	39.38	-3.00	36.38	46.00	-9.62

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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.000	Peak	39.90	-10.27	29.63	40.00	-10.37
199.750	Peak	43.81	-11.14	32.67	43.50	-10.83
350.100	Peak	44.87	-6.42	38.46	46.00	-7.54
450.010	Peak	42.54	-4.08	38.46	46.00	-7.54
549.920	Peak	37.57	-3.00	34.56	46.00	-11.44
649.830	Peak	34.20	-0.83	33.37	46.00	-12.63

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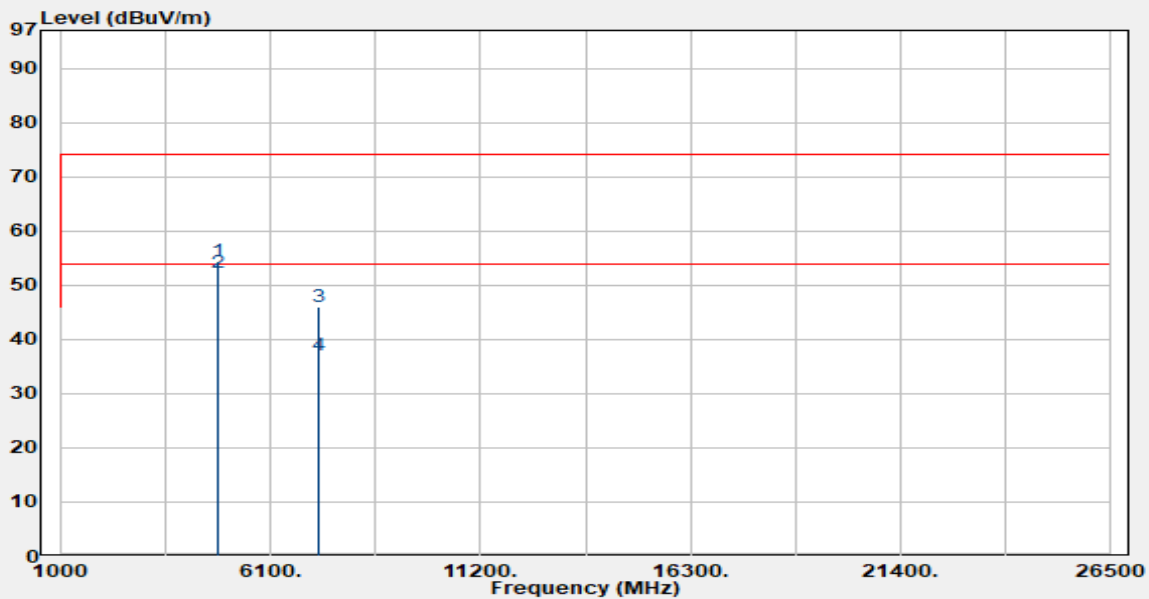
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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



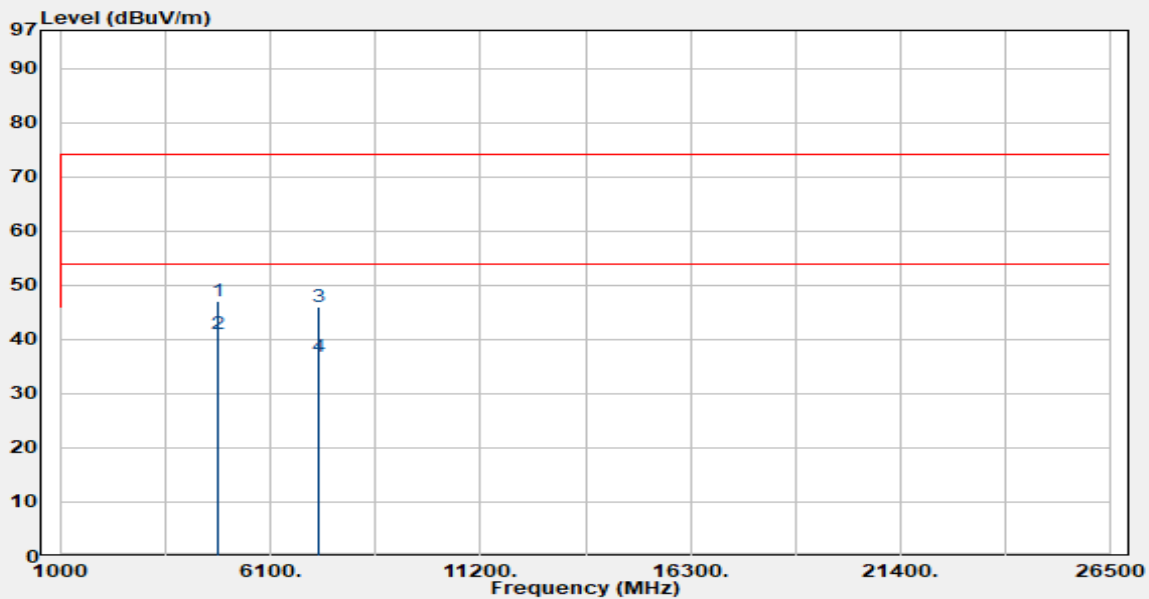
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	54.34	0.14	54.48	74.00	-19.52
4824.000	Average	52.27	0.14	52.41	54.00	-1.59
7236.000	Peak	39.69	6.44	46.13	74.00	-27.87
7236.000	Average	30.61	6.44	37.05	54.00	-16.95

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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	46.85	0.14	46.99	74.00	-27.01
4824.000	Average	40.74	0.14	40.88	54.00	-13.12
7236.000	Peak	39.51	6.44	45.95	74.00	-28.05
7236.000	Average	30.27	6.44	36.71	54.00	-17.29

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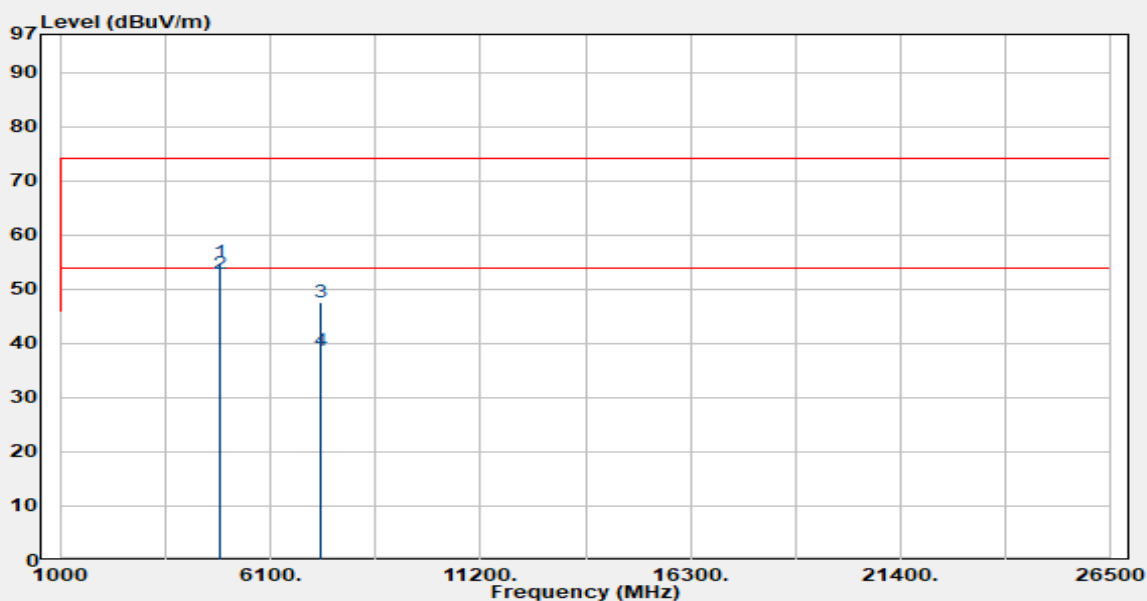
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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	54.75	0.28	55.03	74.00	-18.97
4874.000	Average	52.46	0.28	52.74	54.00	-1.26
7311.000	Peak	41.27	6.29	47.55	74.00	-26.45
7311.000	Average	32.30	6.29	38.59	54.00	-15.41

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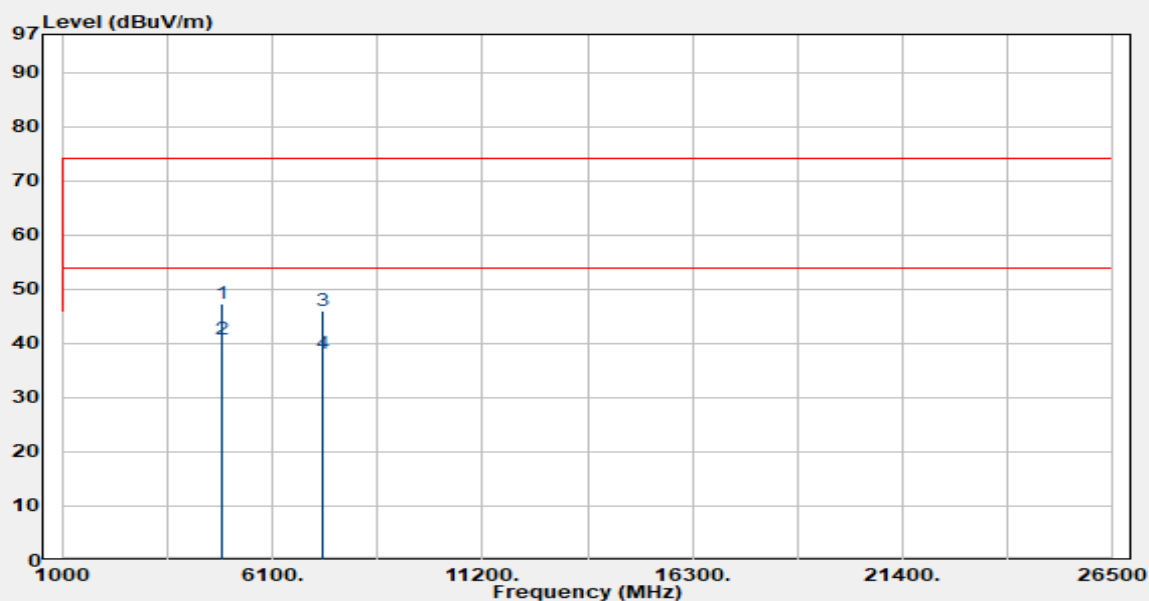
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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	47.12	0.28	47.40	74.00	-26.60
4874.000	Average	40.56	0.28	40.84	54.00	-13.16
7311.000	Peak	39.81	6.29	46.09	74.00	-27.91
7311.000	Average	31.87	6.29	38.16	54.00	-15.84

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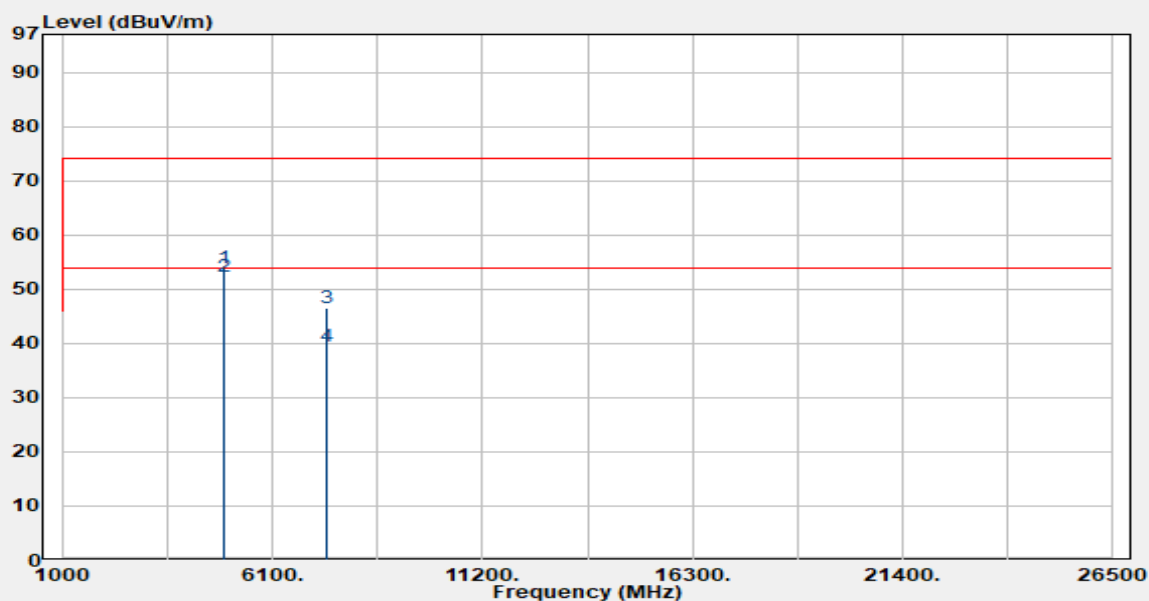
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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.000	Peak	53.30	0.46	53.76	74.00	-20.24
4924.000	Average	51.82	0.46	52.28	54.00	-1.72
7386.000	Peak	40.50	6.00	46.50	74.00	-27.50
7386.000	Average	33.48	6.00	39.48	54.00	-14.52

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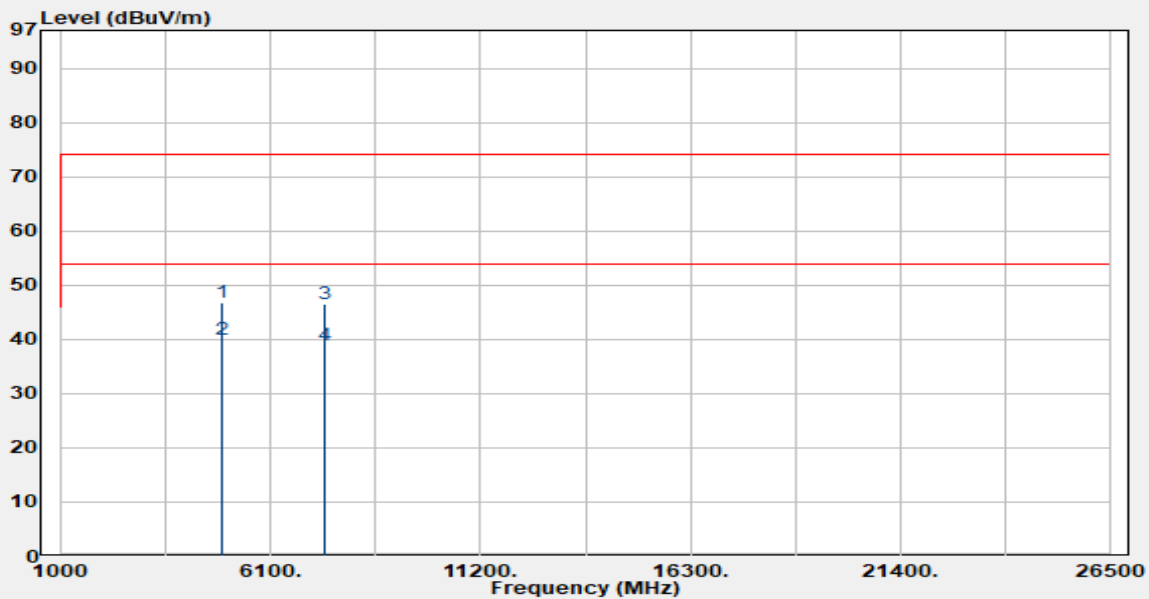
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Report Number :TERF2310002515ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	46.33	0.46	46.79	74.00	-27.21
4924.000	Average	39.52	0.46	39.98	54.00	-14.02
7386.000	Peak	40.57	6.00	46.56	74.00	-27.44
7386.000	Average	33.04	6.00	39.04	54.00	-14.96

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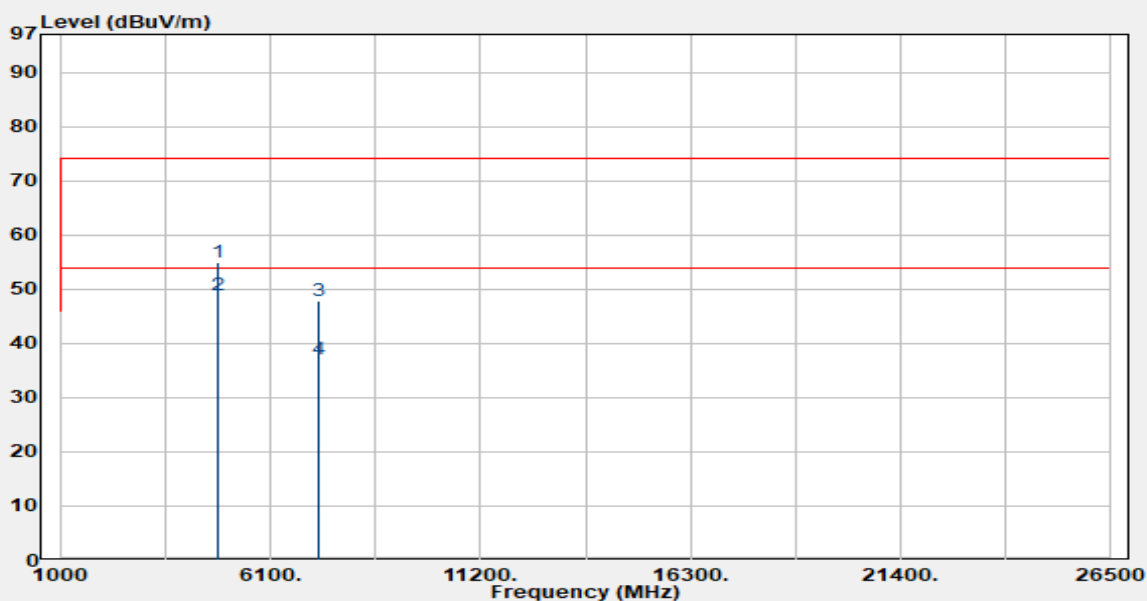
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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	54.82	0.14	54.96	74.00	-19.04
4824.000	Average	48.63	0.14	48.77	54.00	-5.23
7236.000	Peak	41.36	6.44	47.80	74.00	-26.20
7236.000	Average	30.68	6.44	37.12	54.00	-16.88

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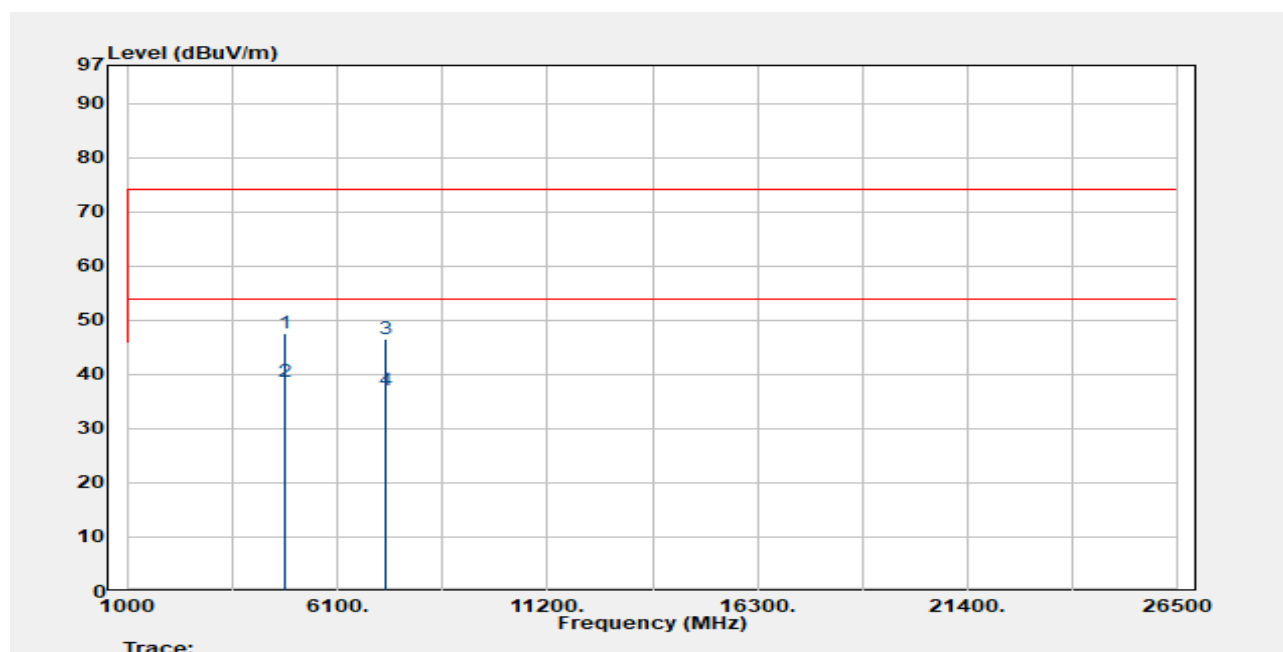
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Report Number :TERF2310002515ER
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2023-11-06
Temp./Humi. :23.6°C/66%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	47.33	0.14	47.47	74.00	-26.53
4824.000	Average	38.47	0.14	38.61	54.00	-15.39
7236.000	Peak	40.12	6.44	46.56	74.00	-27.44
7236.000	Average	30.72	6.44	37.16	54.00	-16.84

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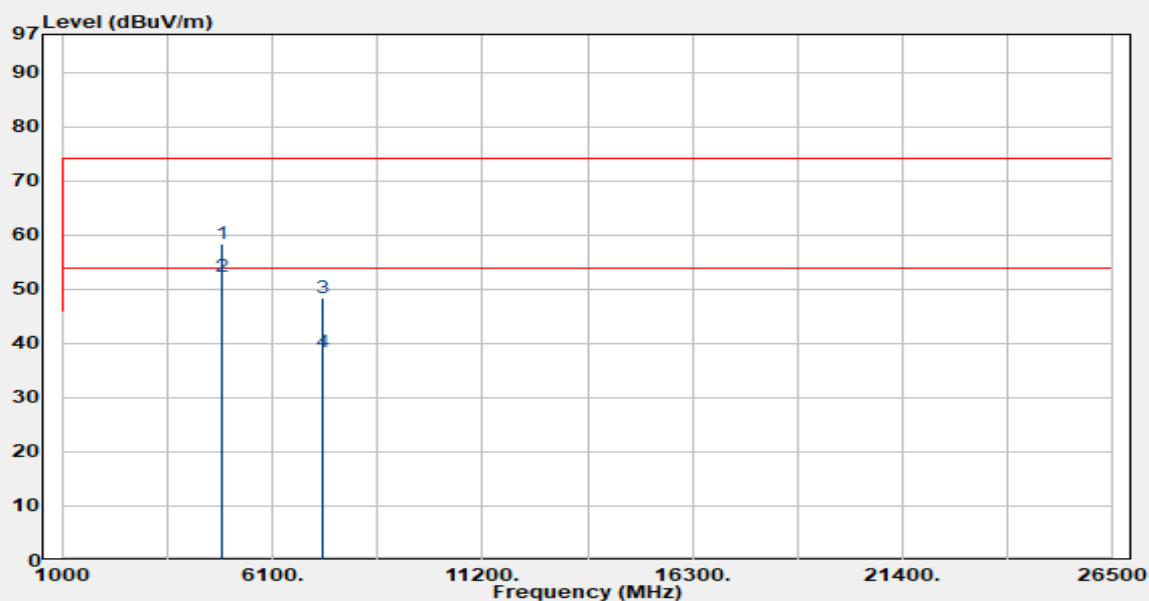
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Report Number :TERF2310002515ER
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2023-11-06
Temp./Humi. :23.6°C/66%
Antenna Pol. :Vertical
Engineer :Nick Lin



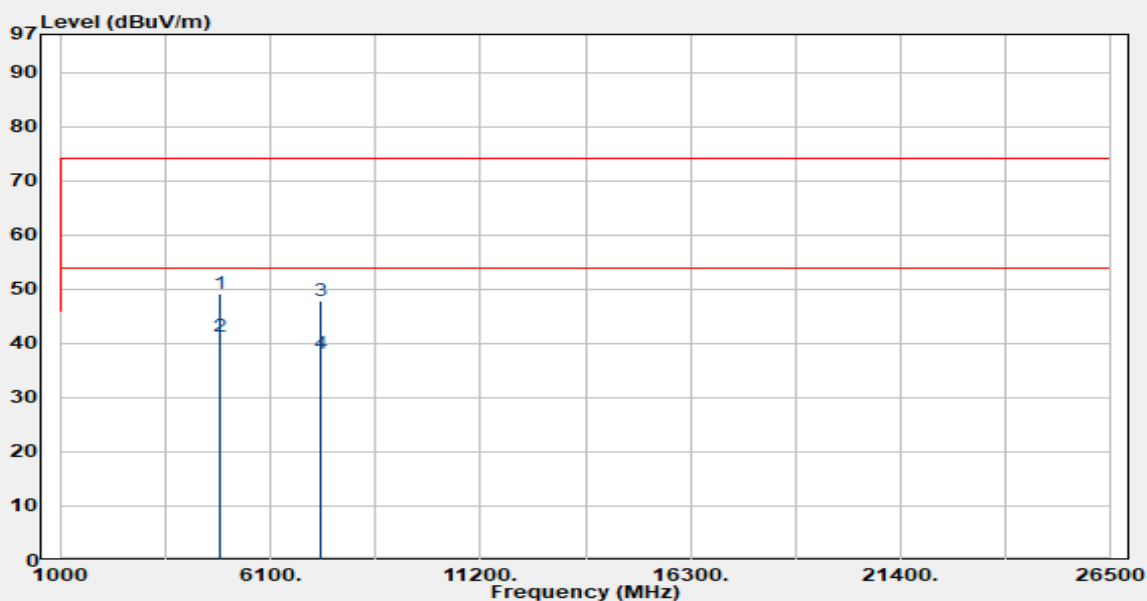
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.000	Peak	58.01	0.28	58.29	74.00	-15.71
4874.000	Average	51.92	0.28	52.20	54.00	-1.80
7311.000	Peak	42.01	6.29	48.30	74.00	-25.70
7311.000	Average	32.08	6.29	38.37	54.00	-15.63

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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	48.82	0.28	49.10	74.00	-24.90
4874.000	Average	40.92	0.28	41.20	54.00	-12.80
7311.000	Peak	41.57	6.29	47.85	74.00	-26.15
7311.000	Average	31.82	6.29	38.11	54.00	-15.89

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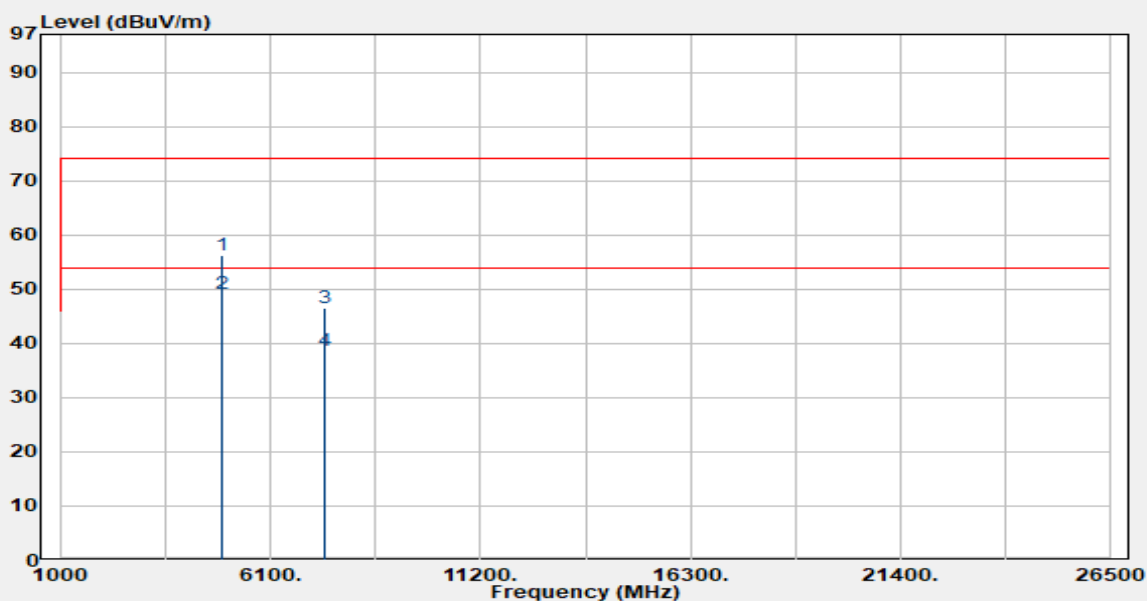
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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



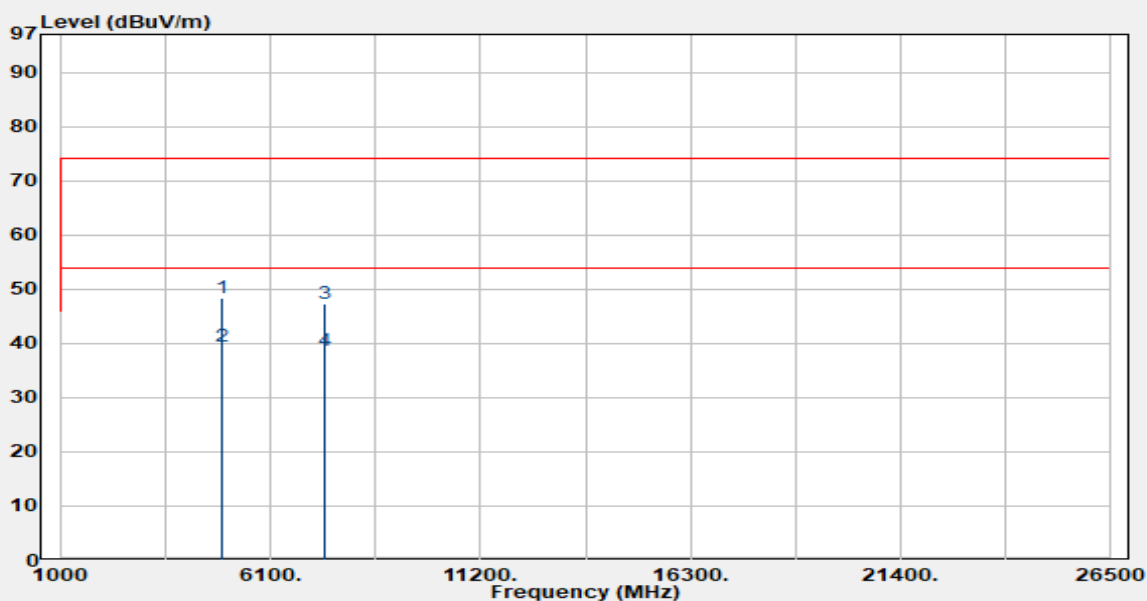
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	55.89	0.46	56.35	74.00	-17.65
4924.000	Average	48.65	0.46	49.11	54.00	-4.89
7386.000	Peak	40.55	6.00	46.54	74.00	-27.46
7386.000	Average	32.62	6.00	38.62	54.00	-15.38

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Report Number :TERF2310002515ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Peak	47.90	0.46	48.36	74.00	-25.64
4924.000	Average	38.95	0.46	39.41	54.00	-14.59
7386.000	Peak	41.27	6.00	47.27	74.00	-26.73
7386.000	Average	32.52	6.00	38.52	54.00	-15.48

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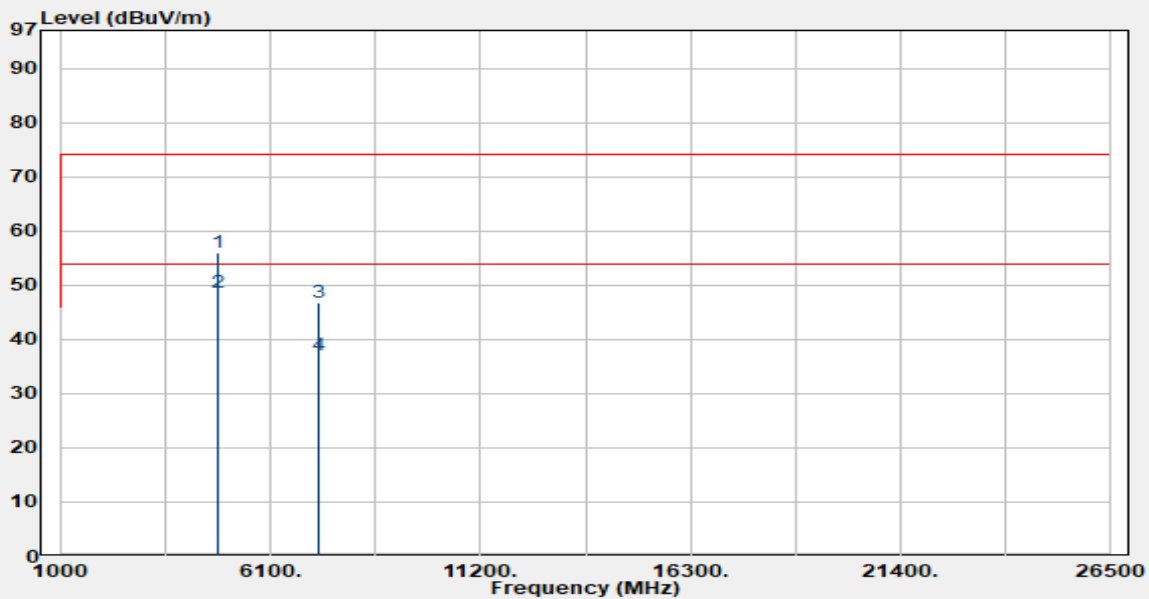
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	55.75	0.14	55.89	74.00	-18.11
4824.000	Average	48.56	0.14	48.70	54.00	-5.30
7236.000	Peak	40.24	6.44	46.68	74.00	-27.32
7236.000	Average	30.62	6.44	37.06	54.00	-16.94

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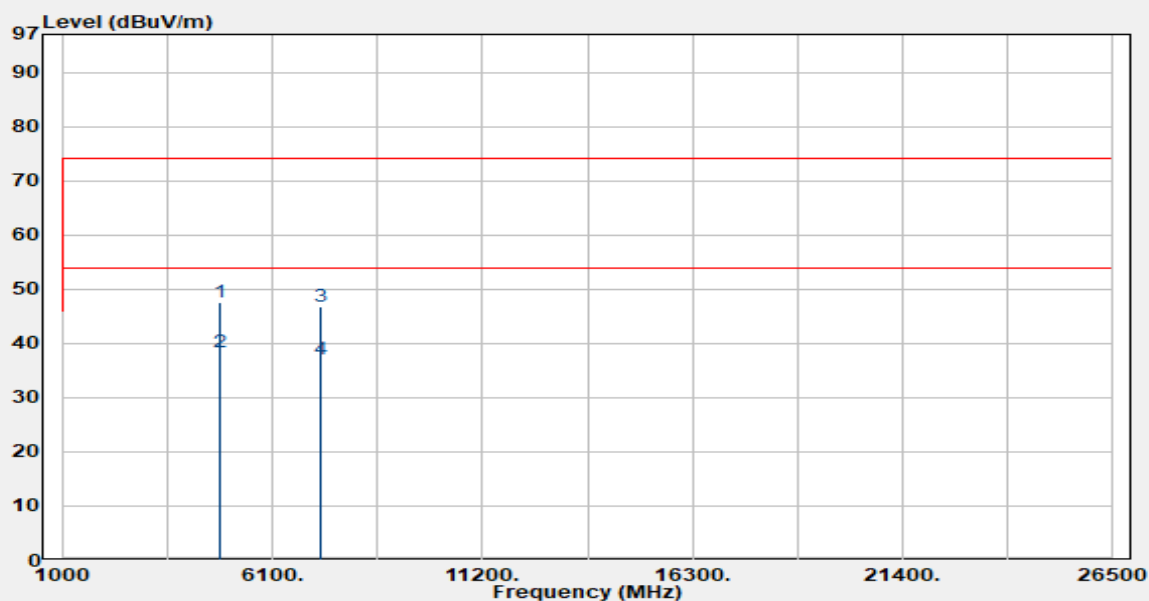
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	47.37	0.14	47.51	74.00	-26.49
4824.000	Average	38.32	0.14	38.46	54.00	-15.54
7236.000	Peak	40.42	6.44	46.86	74.00	-27.14
7236.000	Average	30.69	6.44	37.13	54.00	-16.87

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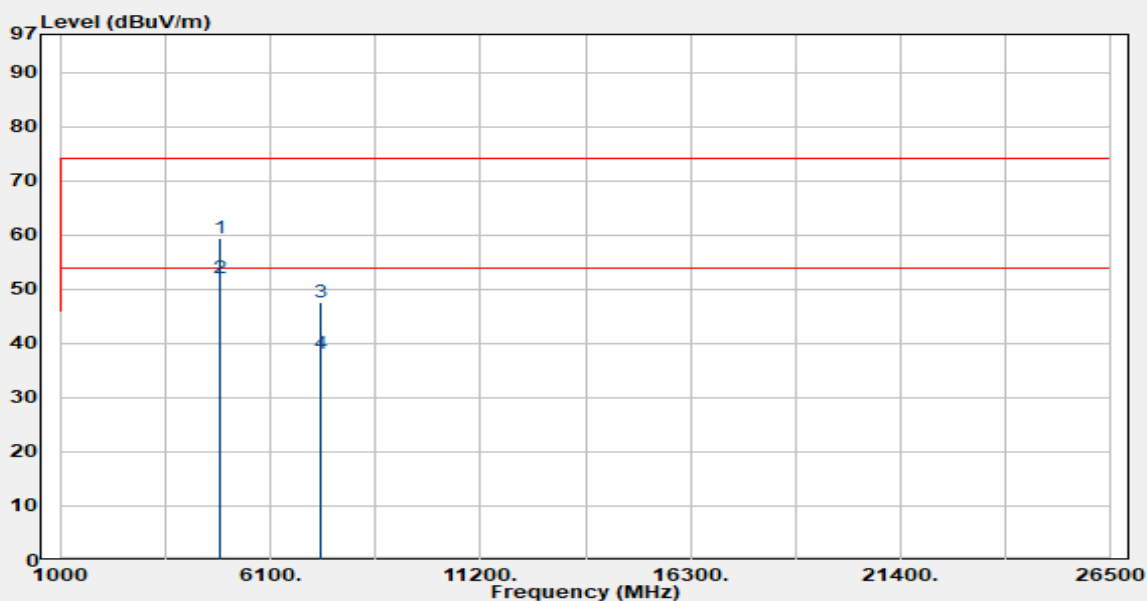
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	59.22	0.28	59.50	74.00	-14.50
4874.000	Average	51.72	0.28	52.00	54.00	-2.00
7311.000	Peak	41.22	6.29	47.51	74.00	-26.49
7311.000	Average	31.94	6.29	38.23	54.00	-15.77

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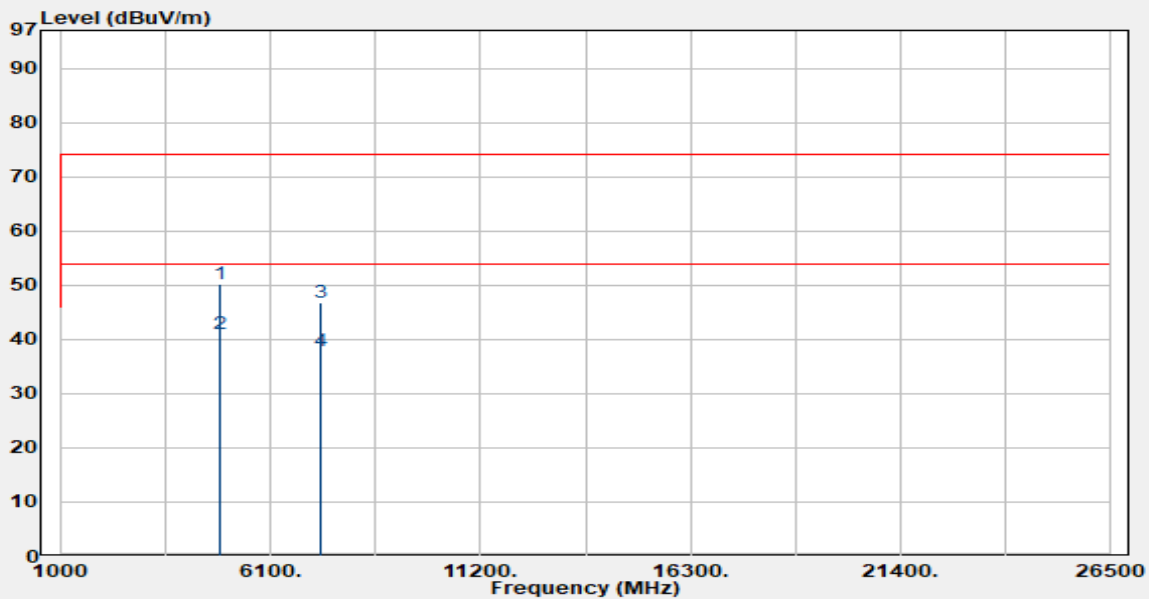
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	49.80	0.28	50.08	74.00	-23.92
4874.000	Average	40.86	0.28	41.14	54.00	-12.86
7311.000	Peak	40.43	6.29	46.72	74.00	-27.28
7311.000	Average	31.63	6.29	37.92	54.00	-16.08

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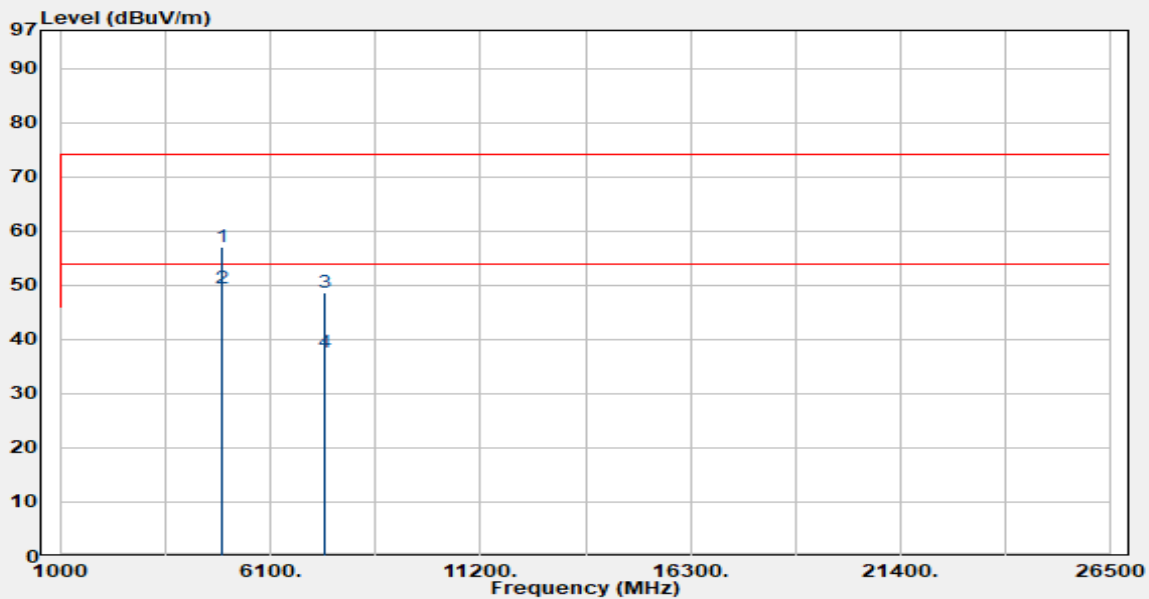
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.000	Peak	56.71	0.46	57.17	74.00	-16.83
4924.000	Average	48.85	0.46	49.31	54.00	-4.69
7386.000	Peak	42.65	6.00	48.65	74.00	-25.35
7386.000	Average	31.53	6.00	37.53	54.00	-16.47

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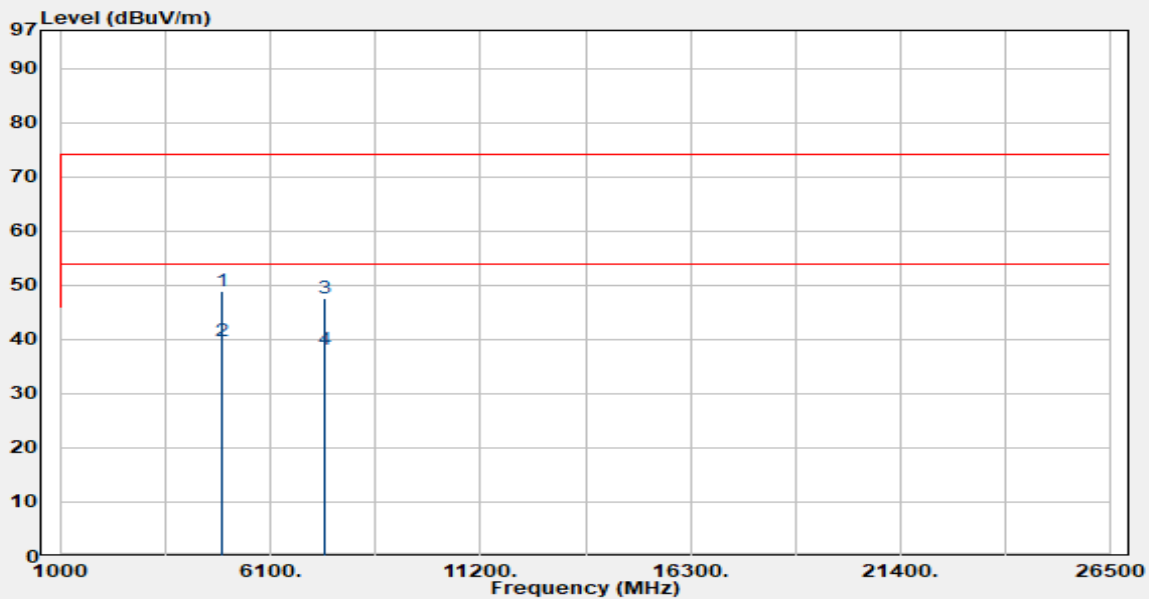
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Report Number :TERF2310002515ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	48.52	0.46	48.98	74.00	-25.02
4924.000	Average	39.17	0.46	39.63	54.00	-14.37
7386.000	Peak	41.53	6.00	47.52	74.00	-26.48
7386.000	Average	32.09	6.00	38.09	54.00	-15.91

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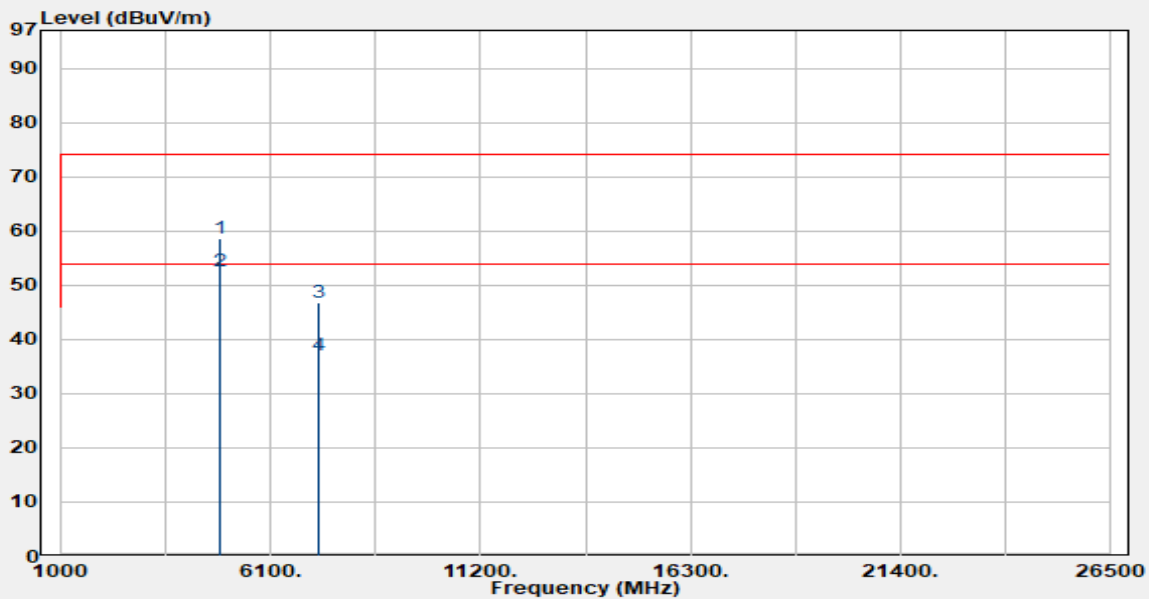
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



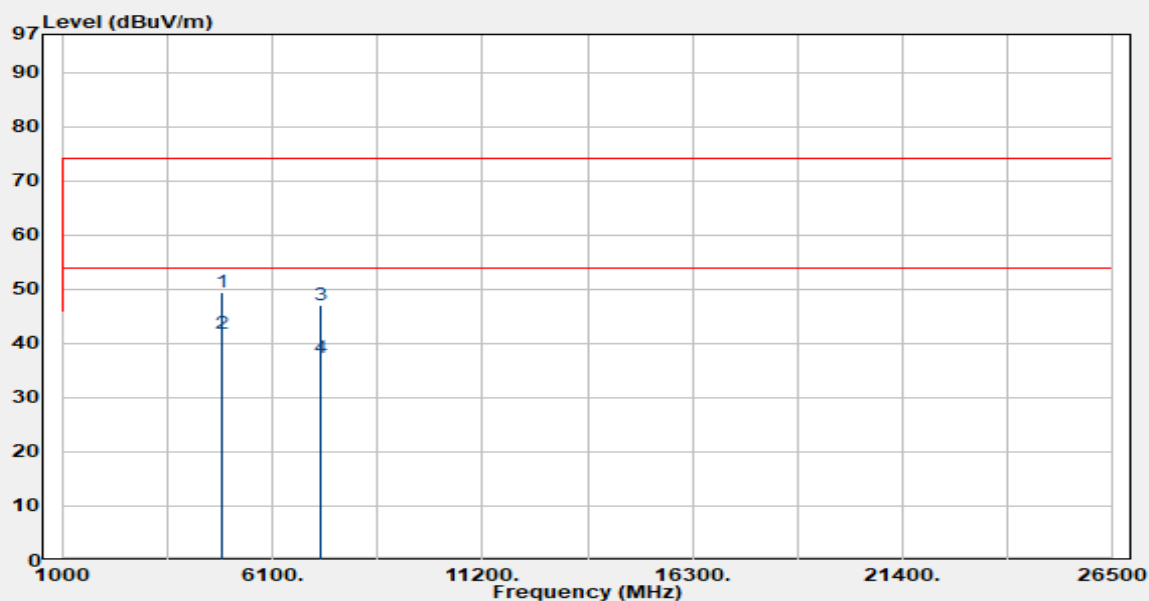
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Peak	58.34	0.22	58.56	74.00	-15.44
4844.000	Average	52.48	0.22	52.70	54.00	-1.30
7266.000	Peak	40.46	6.40	46.86	74.00	-27.14
7266.000	Average	30.70	6.40	37.10	54.00	-16.90

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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Peak	49.15	0.22	49.37	74.00	-24.63
4844.000	Average	41.69	0.22	41.91	54.00	-12.09
7266.000	Peak	40.63	6.40	47.03	74.00	-26.97
7266.000	Average	30.82	6.40	37.22	54.00	-16.78

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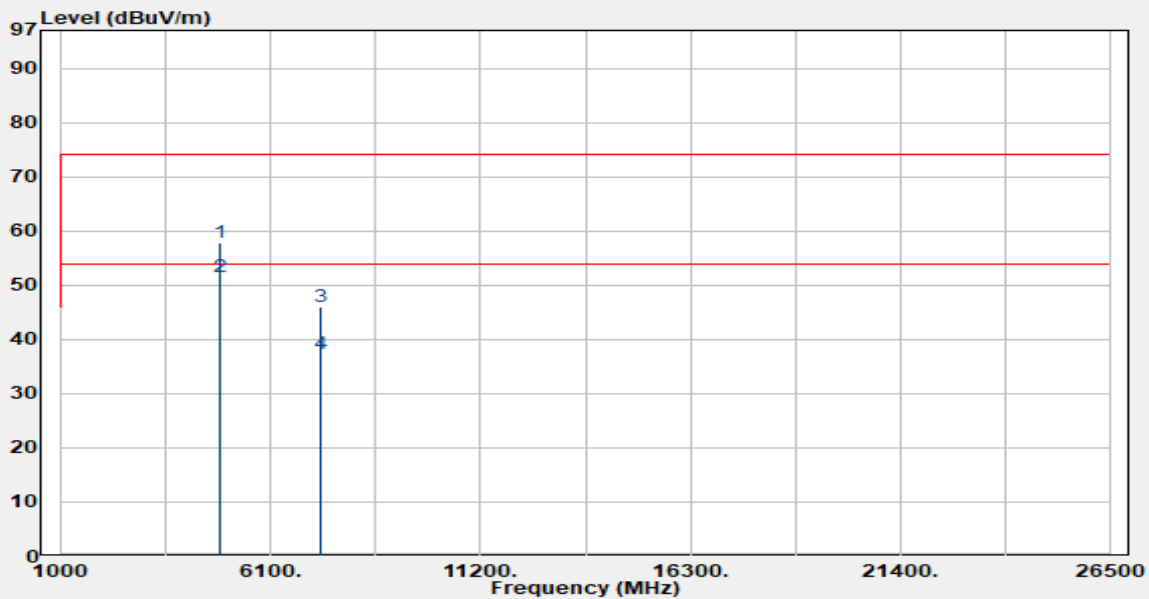
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	57.47	0.28	57.75	74.00	-16.25
4874.000	Average	51.22	0.28	51.50	54.00	-2.50
7311.000	Peak	39.84	6.29	46.12	74.00	-27.88
7311.000	Average	31.15	6.29	37.44	54.00	-16.56

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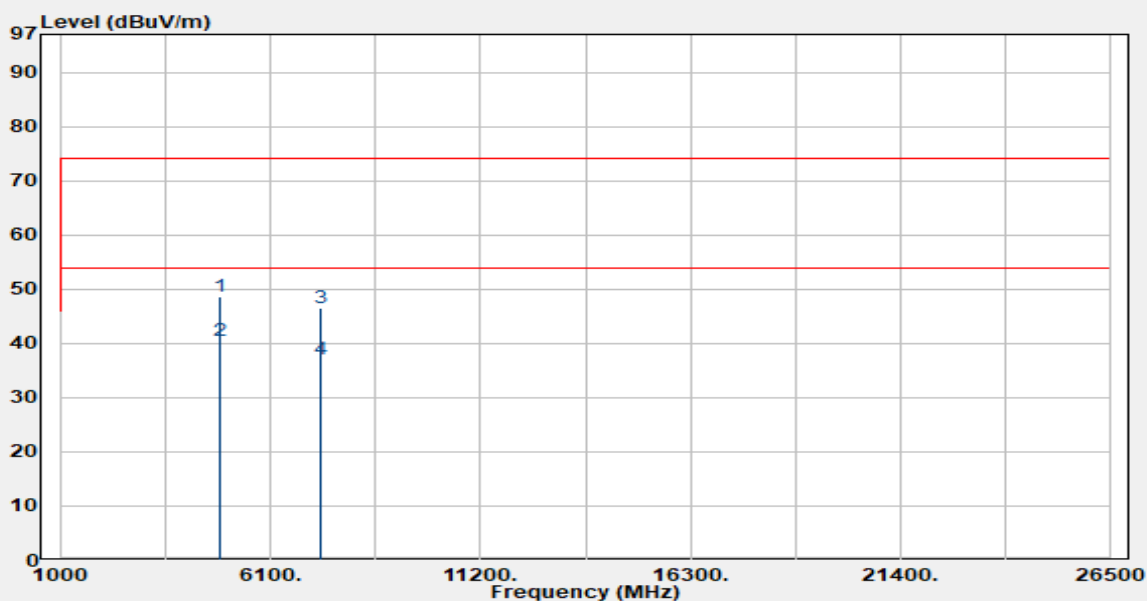
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Report Number :TERF2310002515ER
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 3
Test Date :2023-11-06
Temp./Humi. :23.6°C/66%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Peak	48.40	0.28	48.68	74.00	-25.32
4874.000	Average	40.29	0.28	40.57	54.00	-13.43
7311.000	Peak	40.31	6.29	46.60	74.00	-27.40
7311.000	Average	30.71	6.29	37.00	54.00	-17.00

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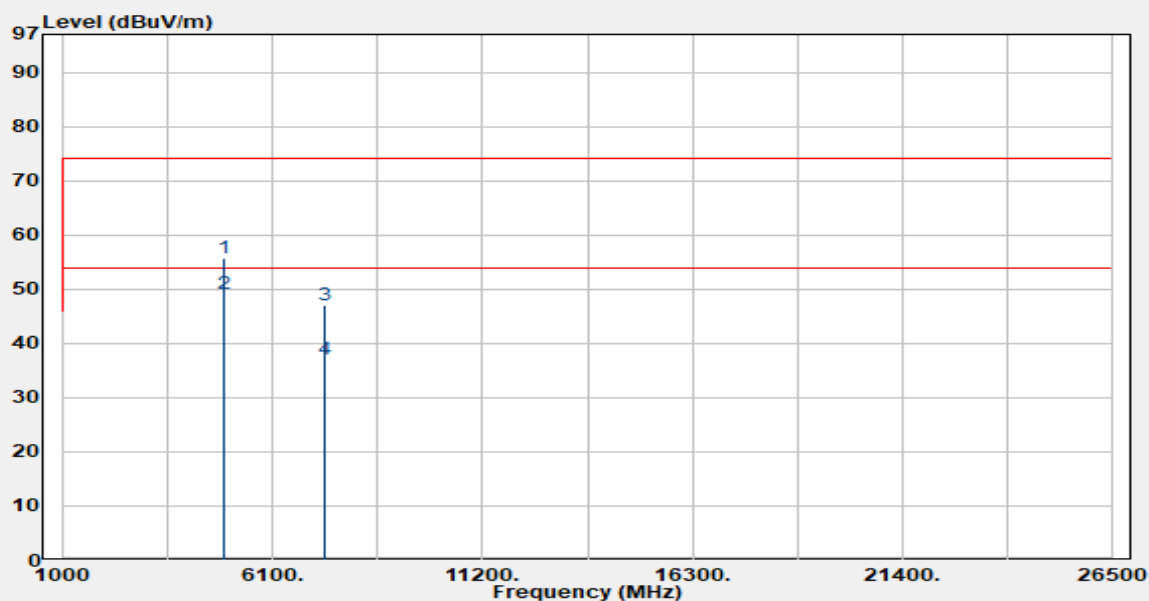
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4904.000	Peak	55.48	0.35	55.83	74.00	-18.17
4904.000	Average	48.73	0.35	49.08	54.00	-4.92
7356.000	Peak	40.88	6.11	46.99	74.00	-27.01
7356.000	Average	30.87	6.11	36.98	54.00	-17.02

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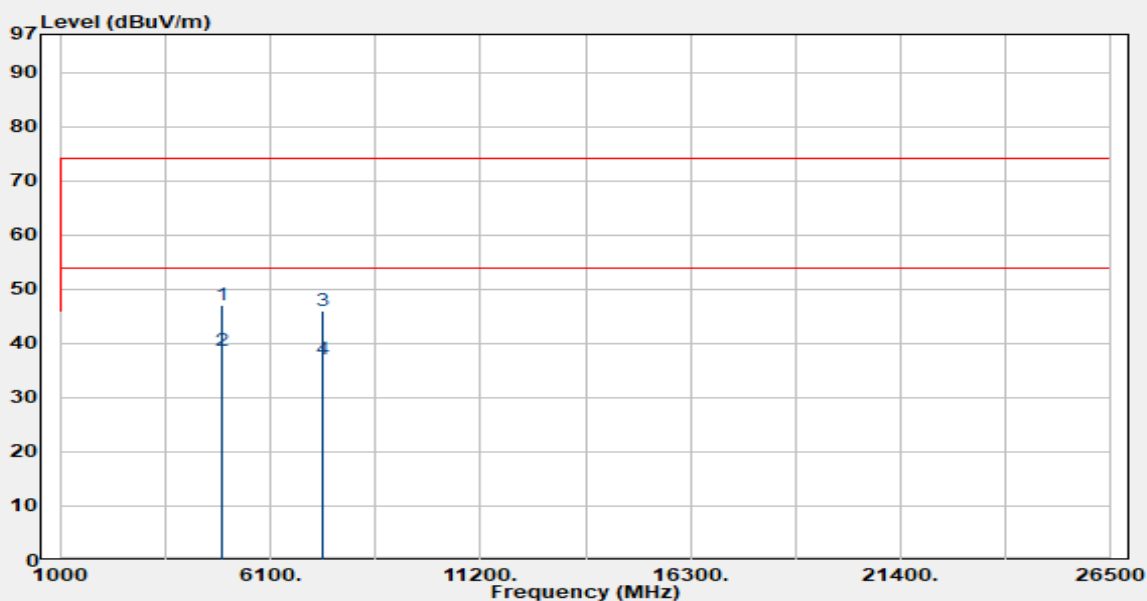
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Report Number :TERF2310002515ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-11-06
 Temp./Humi. :23.6°C/66%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Peak	46.84	0.35	47.19	74.00	-26.81
4904.000	Average	38.31	0.35	38.66	54.00	-15.34
7356.000	Peak	39.97	6.11	46.08	74.00	-27.92
7356.000	Average	31.08	6.11	37.19	54.00	-16.81

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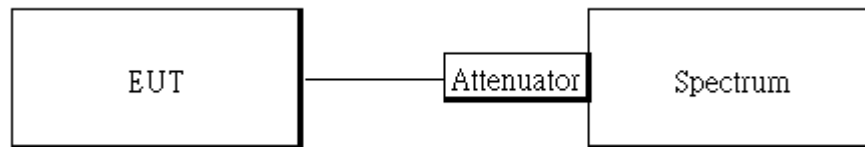
12 POWER SPECTRAL DENSITY

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.

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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	-23.17	-23.17	8.00	PASS
2437	-22.38	-22.38	8.00	PASS
2462	-21.65	-21.65	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-25.21	-25.21	8.00	PASS
2437	-22.04	-22.04	8.00	PASS
2462	-21.88	-21.88	8.00	PASS

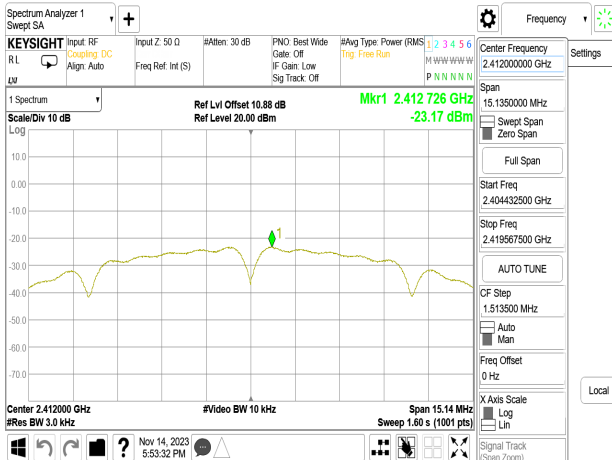
POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-24.92	-24.92	8.00	PASS
2437	-21.79	-21.79	8.00	PASS
2462	-21.34	-21.34	8.00	PASS

POWER DENSITY 802.11n HT40				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-23.86	-23.86	8.00	PASS
2437	-24.03	-24.03	8.00	PASS
2452	-23.21	-23.21	8.00	PASS

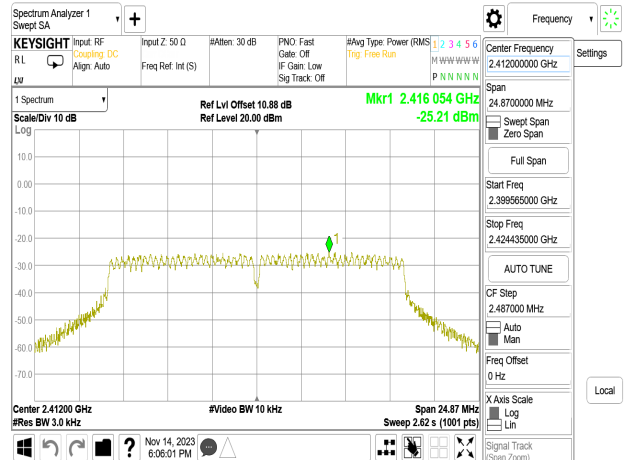
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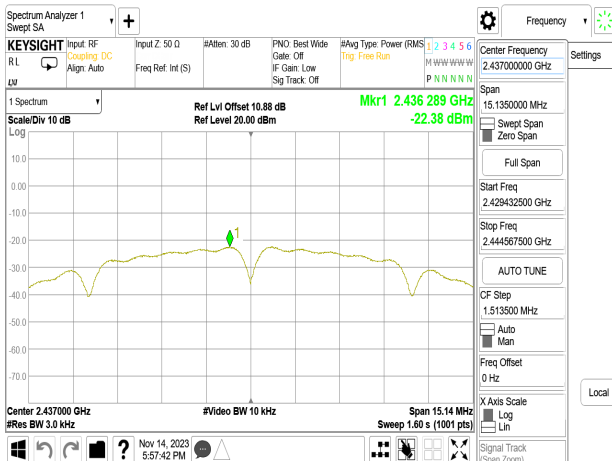
802.11b_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



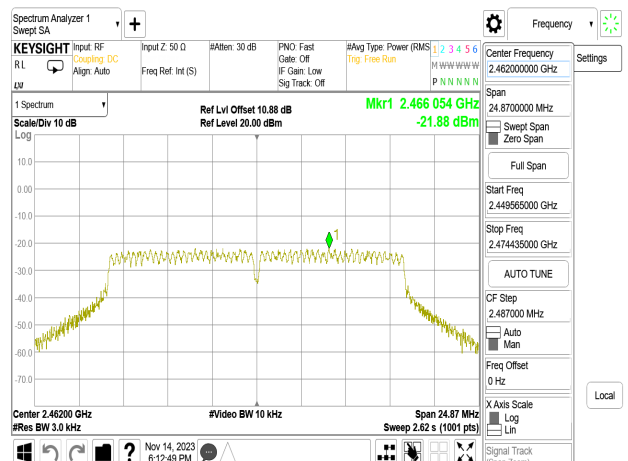
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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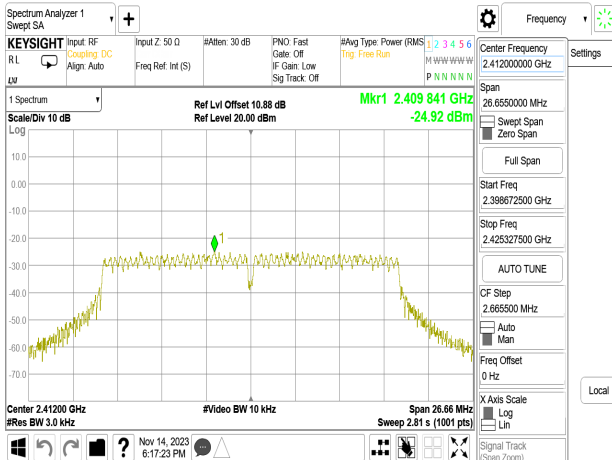
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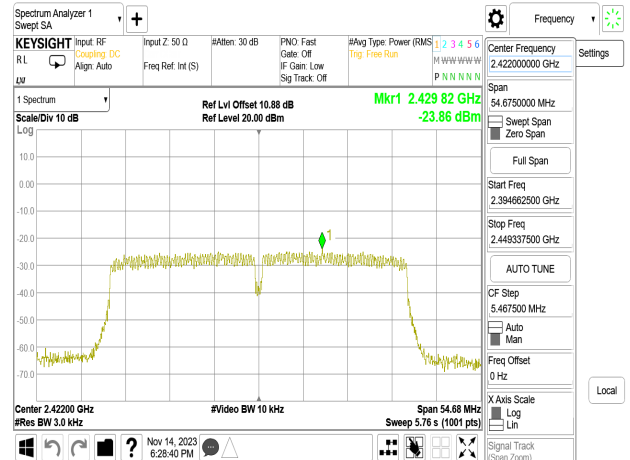
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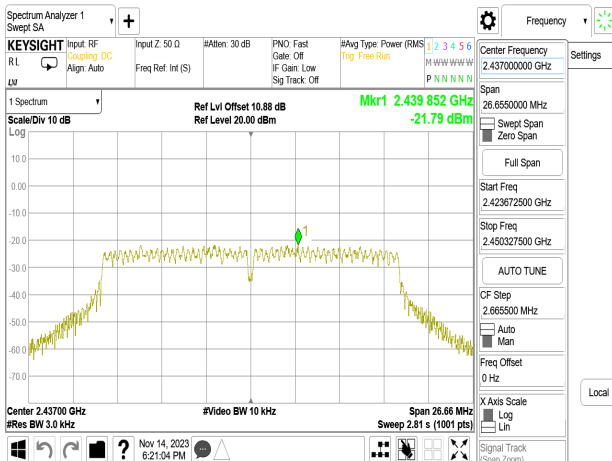
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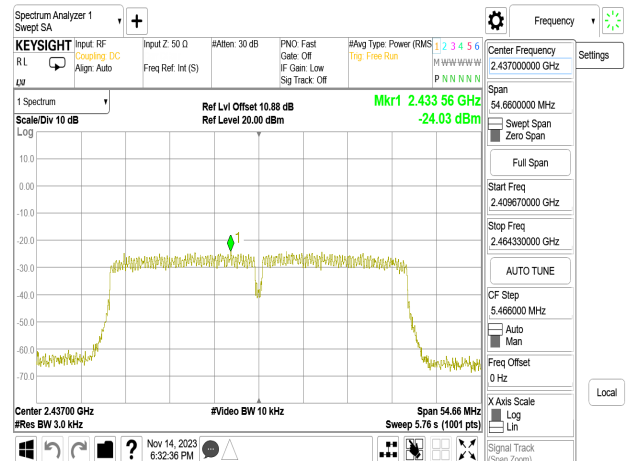
802.11n_40MHz_Chain0_2422MHz



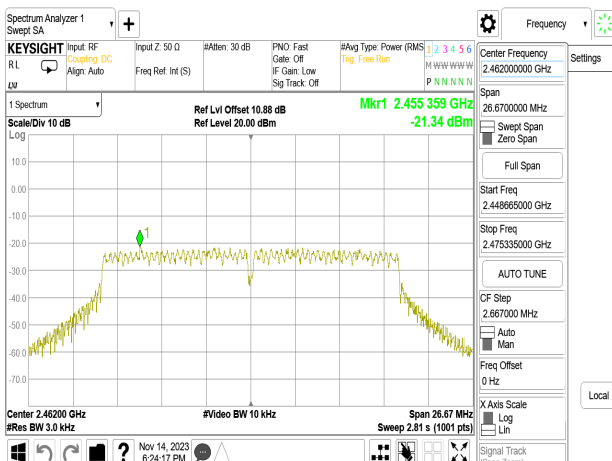
802.11n_20MHz_Chain0_2437MHz



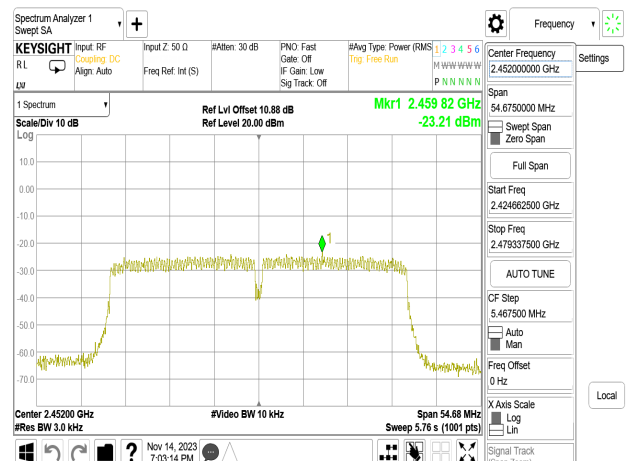
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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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 is fixed to the device that complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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