

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT




FCC Applicant: CASTLES TECHNOLOGY CO., LTD.
6F., NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

FCC Manufacturer: CASTLES TECHNOLOGY CO., LTD.
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NEW TAIPEI CITY 23143, Taiwan (R.O.C)

Product Name: Smart module

Brand Name: 

Model No.: SNM758

Model Difference: N/A

Report Number: TERF2309002386E2

FCC ID WIYSNM758L

IC: 27350-SNM758L

Date of EUT Received: July 24, 2023

Date of Test: July 24, 2023~October 18, 2023

Issue Date: December 07, 2023

Approved By



Vito Pei

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-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
TERF2309002386E2	00	Original	Nov. 3, 2023	Candice Li	
TERF2309002386E2	01	Modify Section 2.5, 2.6, 7.4.3	Dec. 5, 2023	Candice Li	*
TERF2309002386E2	02	Modify Section 1.2, 2.6	Dec. 7, 2023	Candice Li	*

Note:

- The remark "*" indicates modification of the report upon requests from certification body.

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Table of Contents



1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	7
3	SUMMARY OF TEST RESULTS	9
4	DESCRIPTION OF TEST MODES	10
5	MEASUREMENT UNCERTAINTY	12
6	MEASUREMENT EQUIPMENT USED	13
7	PEAK OUTPUT POWER MEASUREMENT	14
8	EMISSION BANDWIDTH MEASUREMENT	20
9	CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	27
10	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	35
11	POWER SPECTRAL DENSITY	81
12	ANTENNA REQUIREMENT	85

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Smart module
Brand Name:	 CASTLES TECHNOLOGY
Model No.:	SNM758
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	173232315138
Product Name of Host:	POS Terminal
Brand Name of Host:	 CASTLES TECHNOLOGY
Model No. of Host:	S2L
Power Supply:	12Vdc from Adapter
Test Software (Name/Version)	Qualcomm® Radio Control Toolkit / 4.0.00206.0

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	17.04	14.53	DSSS
802.11g	2412~2462	11	21.97	13.90	OFDM
802.11n20	2412~2462	11	20.85	12.35	OFDM
802.11n40	2422~2452	7	21.14	11.71	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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WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Rated Power in dBm (EIRP)	Modulation Technology
			Peak	Avg.		
802.11b	2412~2462	11	17.04	14.53	14.92	DSSS
802.11g	2412~2462	11	21.97	13.90	14.29	OFDM
802.11n20	2412~2462	11	20.85	12.35	12.74	OFDM
802.11n40	2422~2452	7	21.14	11.71	12.10	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				

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PIFA	AWAN	ALP6P-10000	2400~2500	0.39	-

Note:

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

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 RSS-247 issue 3 Aug. 2023
 RSS-Gen,issue 5 April, 2018
 ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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 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.

2.3.2 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.

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.

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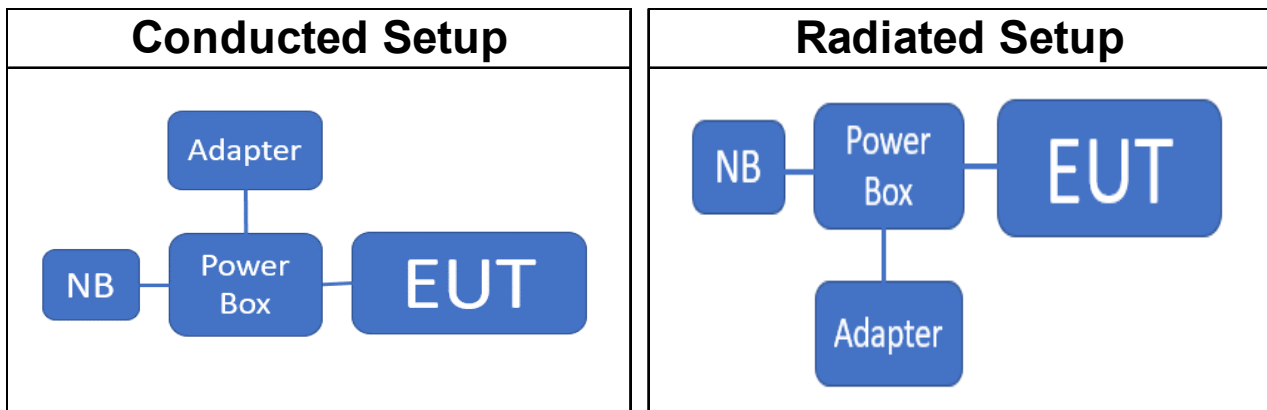
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2.4.2 For all conducted test items:

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

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Box	CASTLES	SATURN-PX	N/A	N/A	N/A
Adapter	ABP	AD0181-	N/A	N/A	N/A
USB TypeC Cable	CHANG YANG ELECTRONICS CO., LTD.	CY-AS-HK0059	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Box	CASTLES	SATURN-PX	N/A	N/A	N/A
Adapter	ABP	AD0181-	N/A	N/A	N/A
USB TypeC Cable	CHANG YANG ELECTRONICS CO., LTD.	CY-AS-HK0059	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant
§15.203	N/A	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		

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

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	

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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

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	1TX

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

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
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated 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 Conducted Measurement

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/20/2023	06/19/2024
Power Meter	Anritsu	ML2496A	1512003	09/08/2023	09/07/2024
Power Sensor	Anritsu	MA2411B	1339378	09/08/2023	09/07/2024
Power Sensor	Anritsu	MA2411B	1339379	09/08/2023	09/07/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF16	11/16/2022	11/15/2023
DC Block	PASTERNAK	PE8210	RF158	11/16/2022	11/15/2023

6.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/17/2023	01/16/2024
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/18/2023	04/17/2024
Loop Antenna	ETS.LINDGREN	6502	14303	05/23/2023	05/22/2024
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/17/2023	07/16/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216、210217、210218	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、210220、210221	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224、210306	03/15/2023	03/14/2024

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

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.1.1 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.

7.1.2 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.

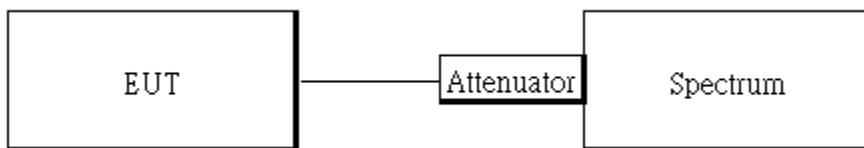
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.1.3 ISED

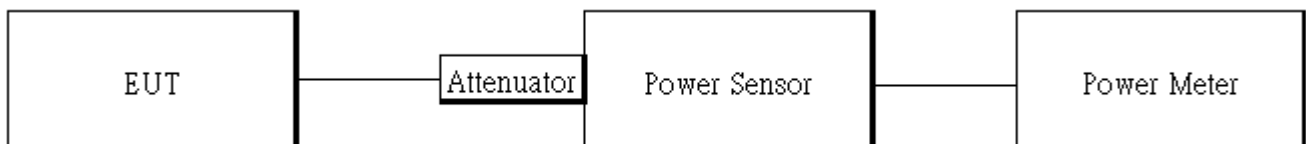
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W (ISED only).

7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power:



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7.3 Measurement Procedure

7.3.1 Duty Cycle:

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

7.3.2 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.**

7.4 Measurement Result

7.4.1 Duty Cycle:

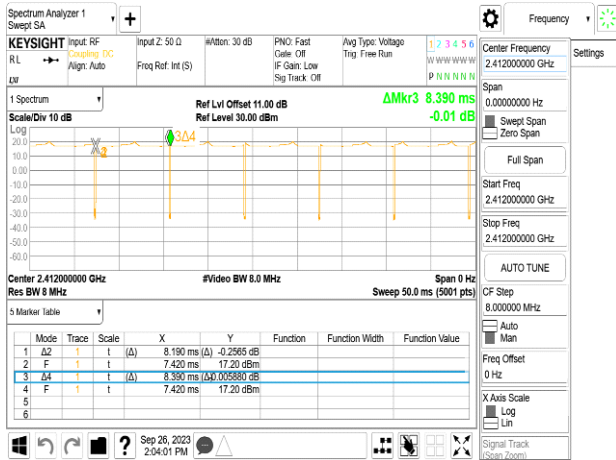
	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	97.62	0.10	0.12	1.00
802.11g	87.29	0.59	0.74	1.00
802.11n_20	86.53	0.63	0.79	1.00
802.11n_40	76.05	1.19	1.58	2.00

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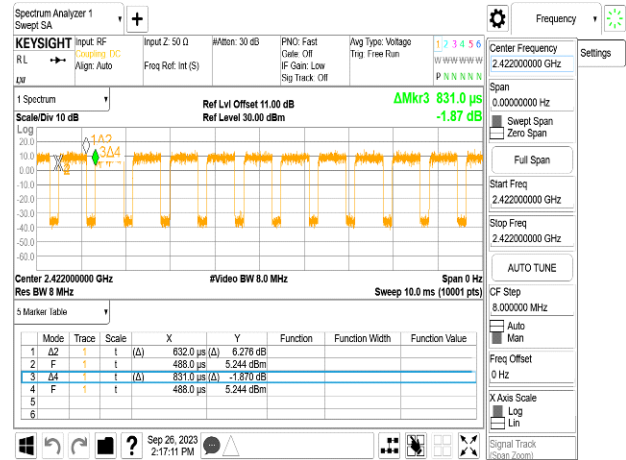
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7.4.2 Duty Cycle test plots

802.11b_20MHz_Chain0_2412MHz



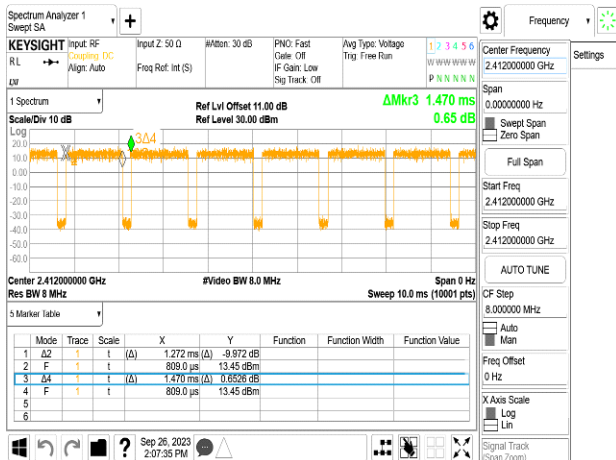
802.11n_40MHz_Chain0_2422MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



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7.4.3 Output Power

Peak & Average

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	17.04	30.00	PASS
6	2437	1	16	16.92	30.00	PASS
11	2462	1	15	16.96	30.00	PASS

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	14.53	30.00	PASS
6	2437	1	16	14.22	30.00	PASS
11	2462	1	15	14.37	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	21.97	30.00	PASS
6	2437	6	15	21.52	30.00	PASS
11	2462	6	14	21.55	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	13.90	30.00	PASS
6	2437	6	15	13.17	30.00	PASS
11	2462	6	14	13.07	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	13	20.67	30.00	PASS
6	2437	MCS0	14	20.85	30.00	PASS
11	2462	MCS0	13	20.42	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	13	12.35	30.00	PASS
6	2437	MCS0	14	12.35	30.00	PASS
11	2462	MCS0	13	12.05	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	13	20.84	30.00	PASS
6	2437	MCS0	14	21.14	30.00	PASS
9	2452	MCS0	12	19.21	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	13	11.60	30.00	PASS
6	2437	MCS0	14	11.71	30.00	PASS
9	2452	MCS0	12	11.30	30.00	PASS

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802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	14.53	0.39	14.92	36	PASS
6	2437	1	14.22	0.39	14.61	36	PASS
11	2462	1	14.37	0.39	14.76	36	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	13.90	0.39	14.29	36	PASS
6	2437	6	13.17	0.39	13.56	36	PASS
11	2462	6	13.07	0.39	13.46	36	PASS

802.11n_HT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	12.35	0.39	12.74	36	PASS
6	2437	MCS0	12.35	0.39	12.74	36	PASS
11	2462	MCS0	12.05	0.39	12.44	36	PASS

802.11n_HT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11.60	0.39	11.99	36	PASS
6	2437	MCS0	11.71	0.39	12.10	36	PASS
9	2452	MCS0	11.30	0.39	11.69	36	PASS

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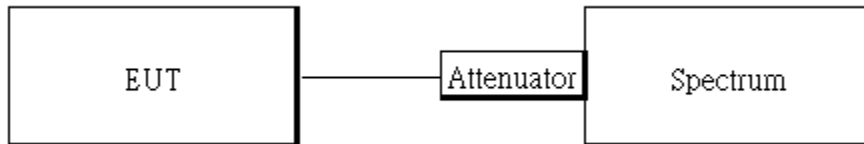
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8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

8.2 Test Setup



8.3 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.

8.3.1 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.

8.3.2 99% BW measurements

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

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8.4 Measurement Result:

8.4.1 6dB BW measurements

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8584.00	≥ 500	PASS
2437	8569.00	≥ 500	PASS
2462	8575.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15820.00	≥ 500	PASS
2437	16420.00	≥ 500	PASS
2462	16350.00	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17600.00	≥ 500	PASS
2437	17630.00	≥ 500	PASS
2462	17210.00	≥ 500	PASS

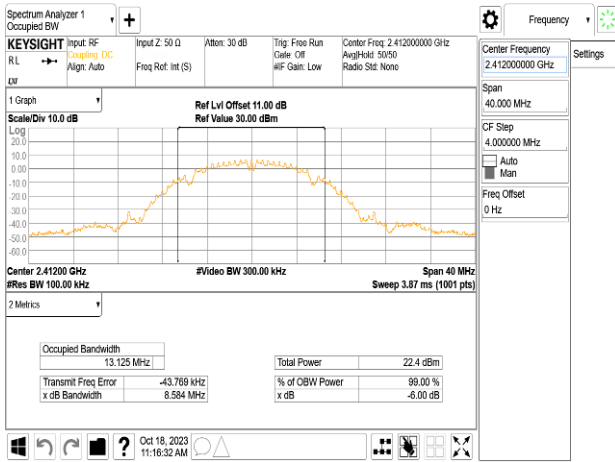
802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35230.00	≥ 500	PASS
2437	35410.00	≥ 500	PASS
2452	35190.00	≥ 500	PASS

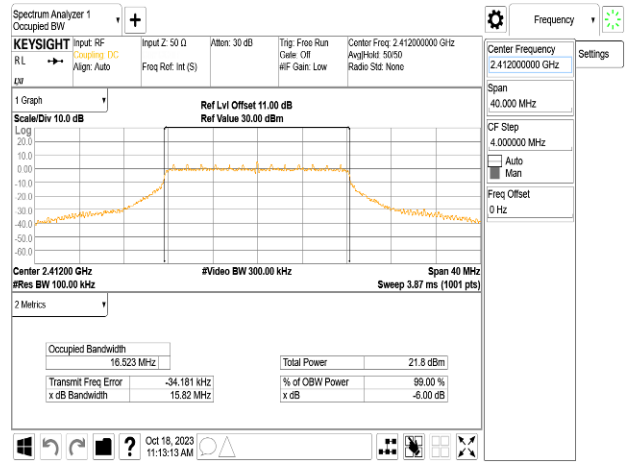
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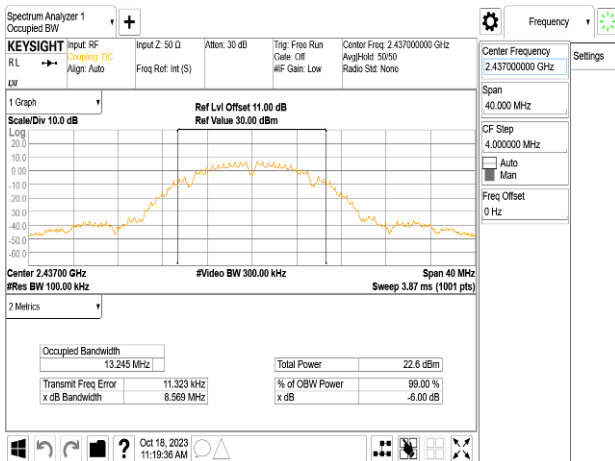
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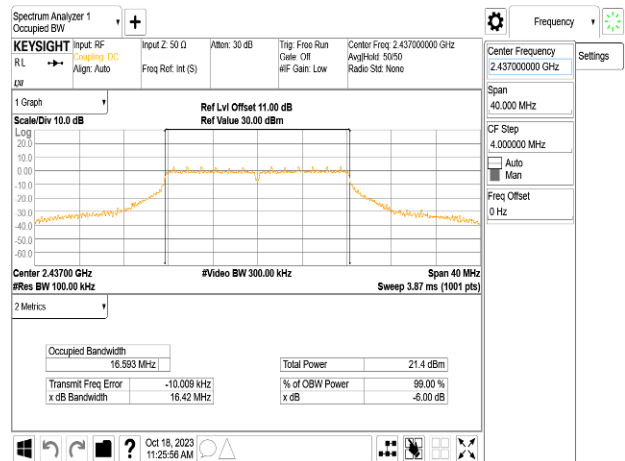
802.11g_20MHz_Chain0_2412MHz



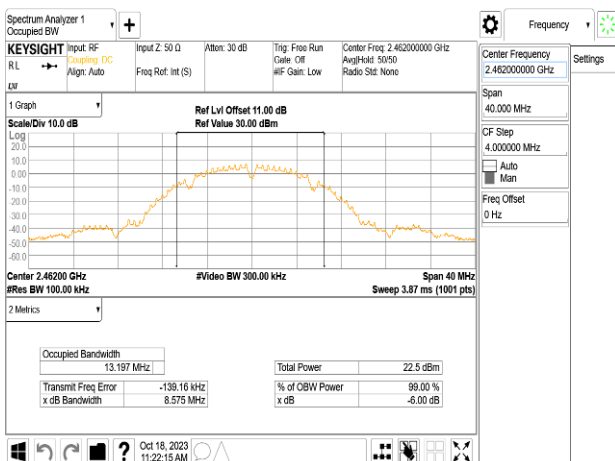
802.11b_20MHz_Chain0_2437MHz



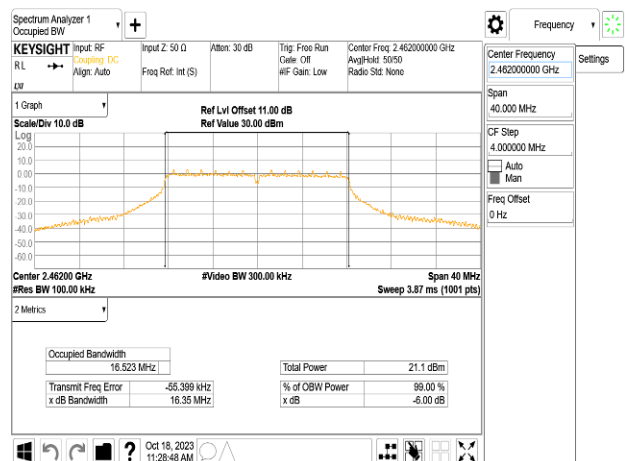
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

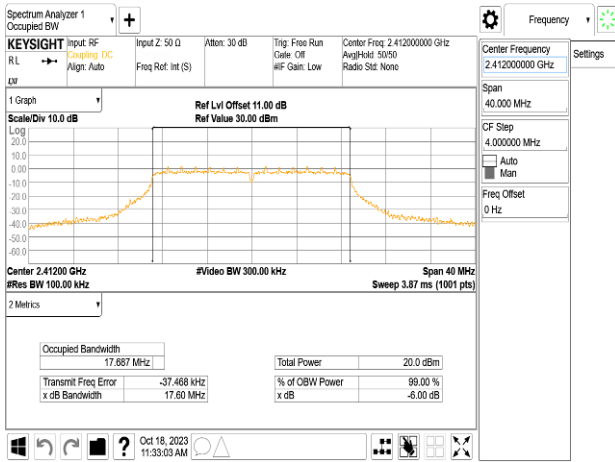


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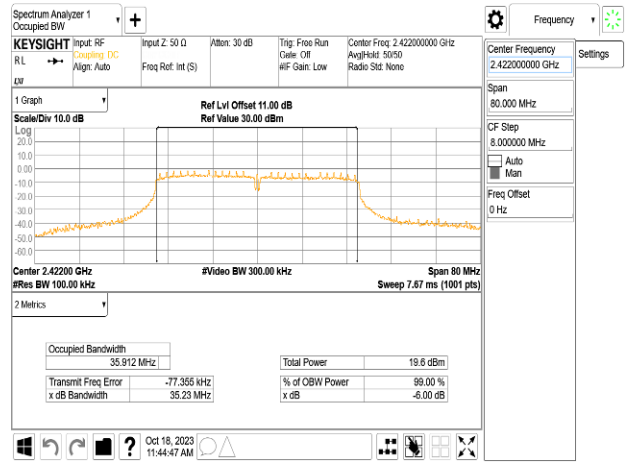
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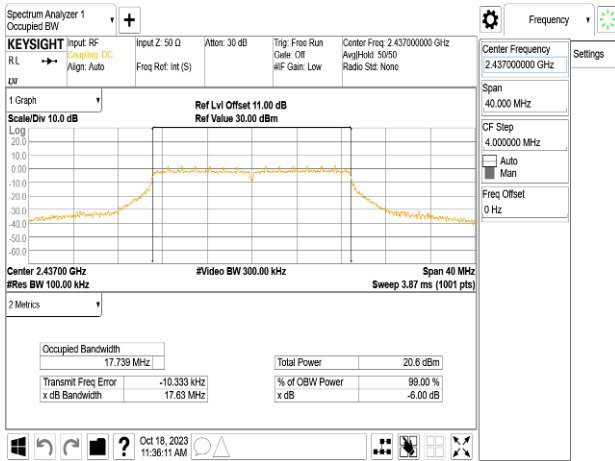
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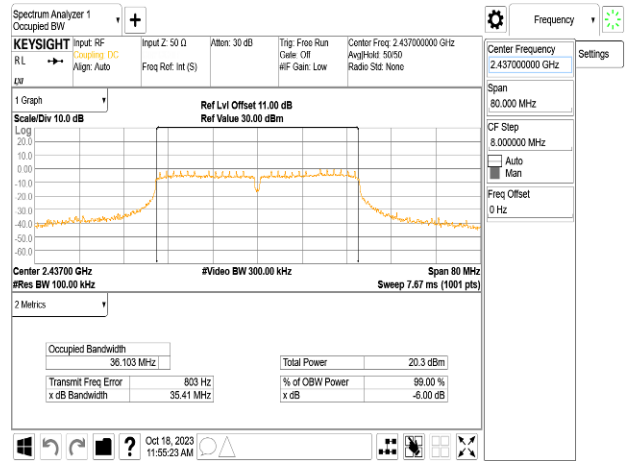
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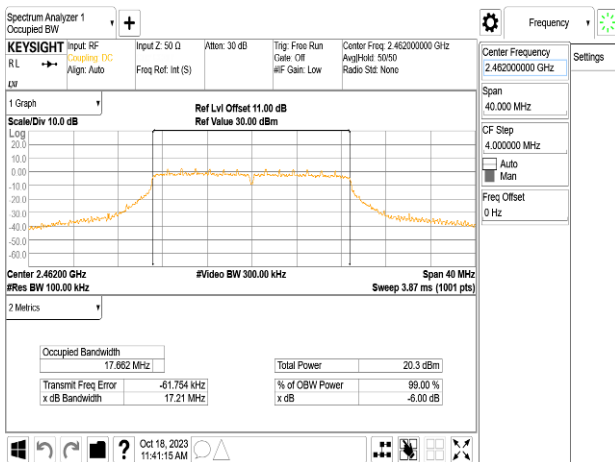
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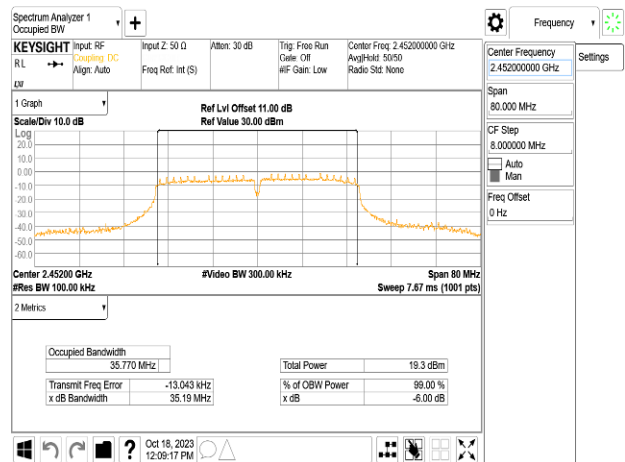
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802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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8.4.2 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	13.131
2437	13.284
2462	13.269

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	17.034
2437	17.275
2462	17.053

802.11n_HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	18.062
2437	18.154
2462	18.029

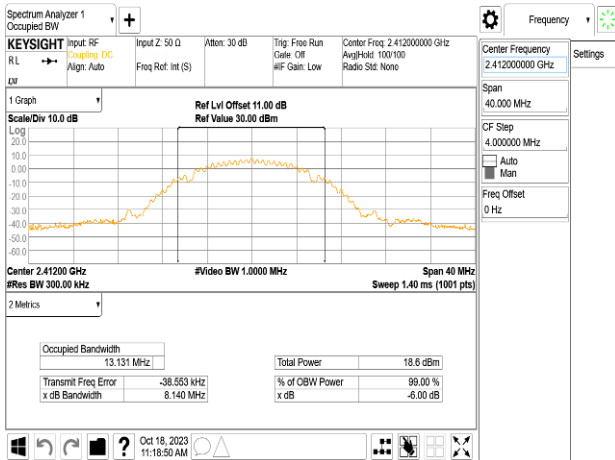
802.11n_HT40M Ch0

Freq. (MHz)	99% BW (MHz)
2422	36.349
2437	36.587
2452	36.086

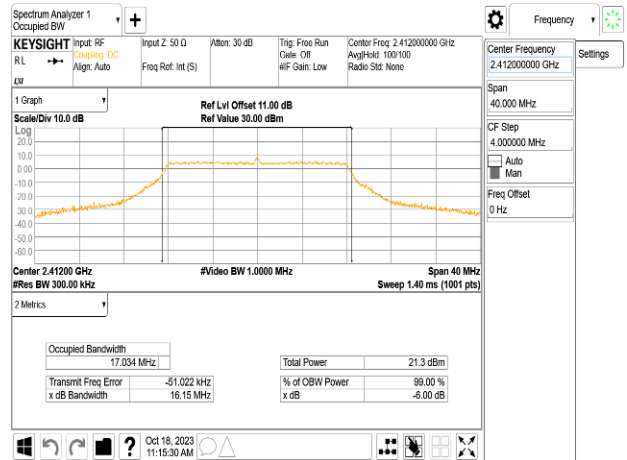
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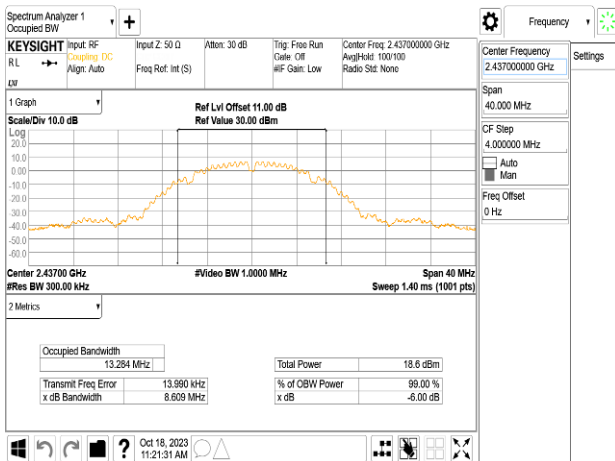
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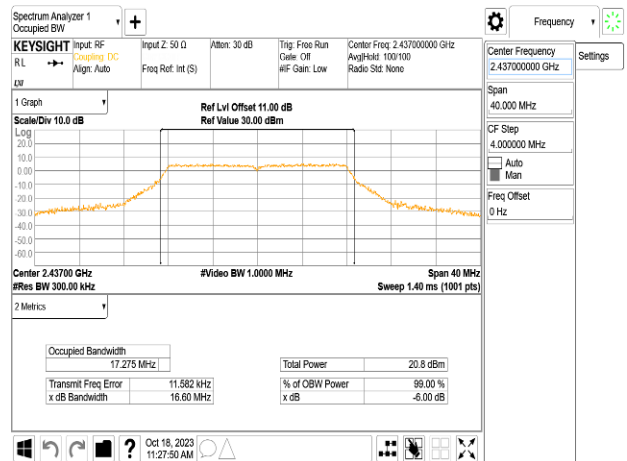
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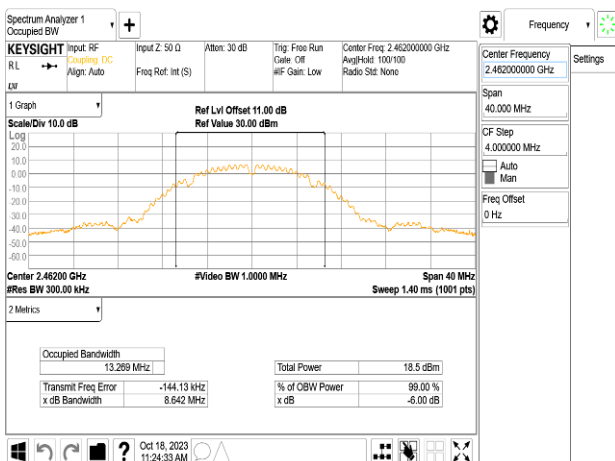
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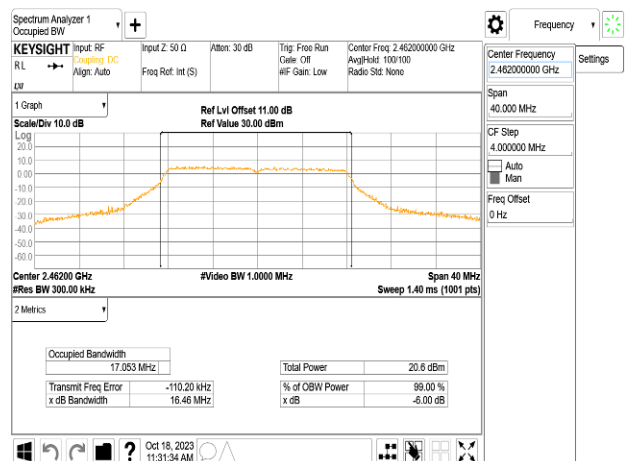
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

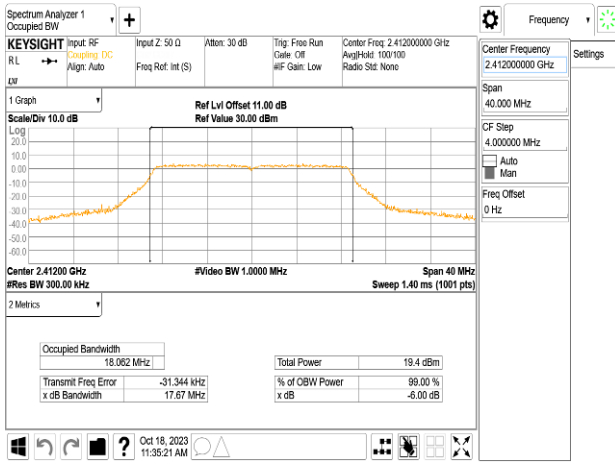


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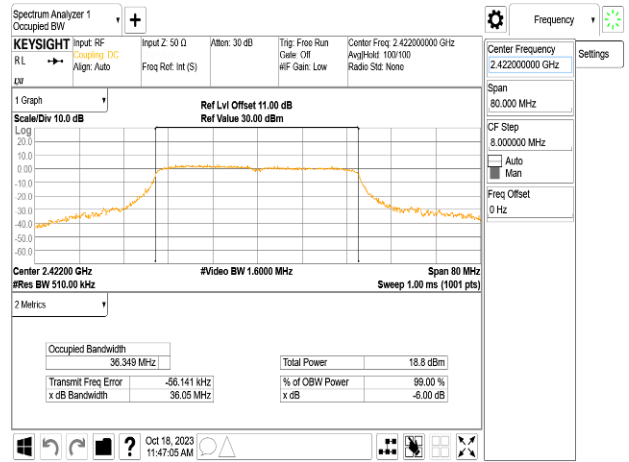
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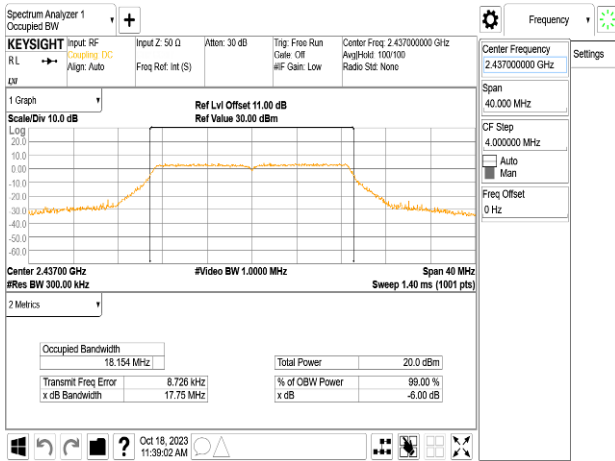
802.11n_20MHz_Chain0_2412MHz



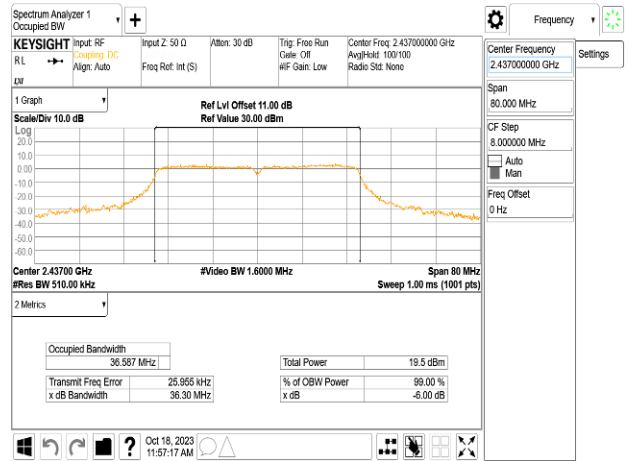
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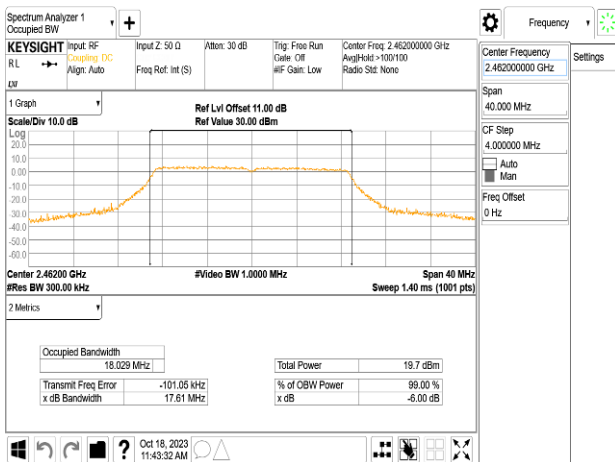
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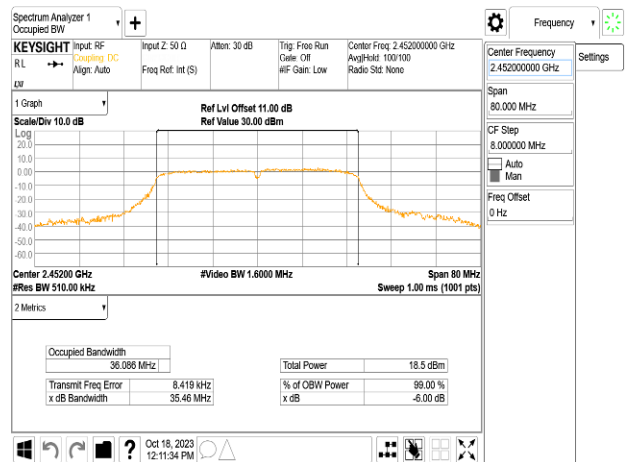
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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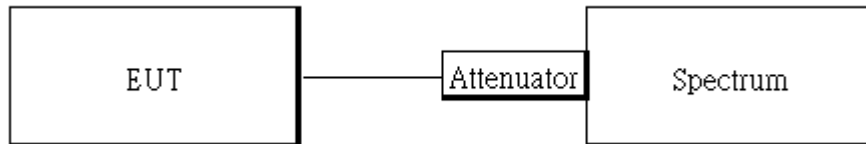
9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

9.1 Standard Applicable

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

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

9.2 Test Setup



9.3 Measurement Procedure

9.3.1 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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9.3.2 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.

9.4 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	6.56	-13.44	2412	5.13	-14.87
2437	6.79	-13.21	2437	2.99	-17.01
2462	6.83	-13.17	2462	3.14	-16.86

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	1.40	-18.60	2422	-1.1	-21.10
2437	2.02	-17.98	2437	-0.67	-20.67
2462	2.20	-17.80	2452	-1.55	-21.55

802.11n_HT_40M Ch0

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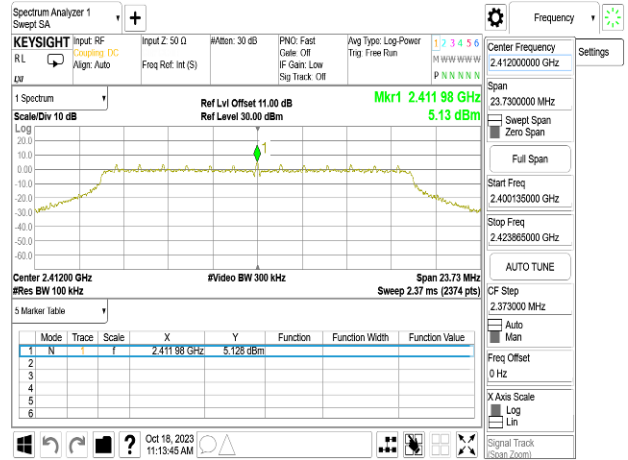
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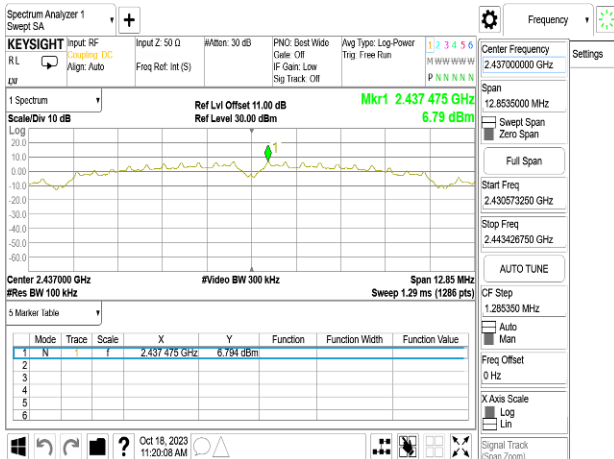
802.11b_20MHz_Chain0_2412MHz



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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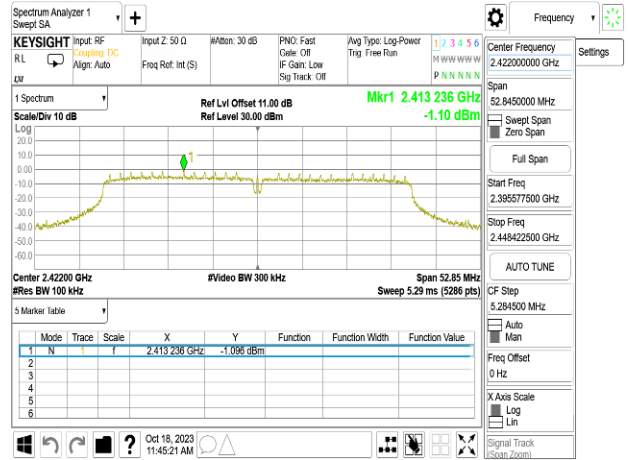
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802.11n_20MHz_Chain0_2412MHz



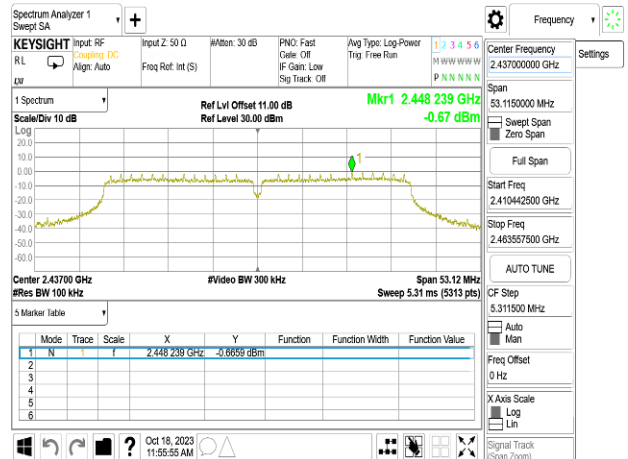
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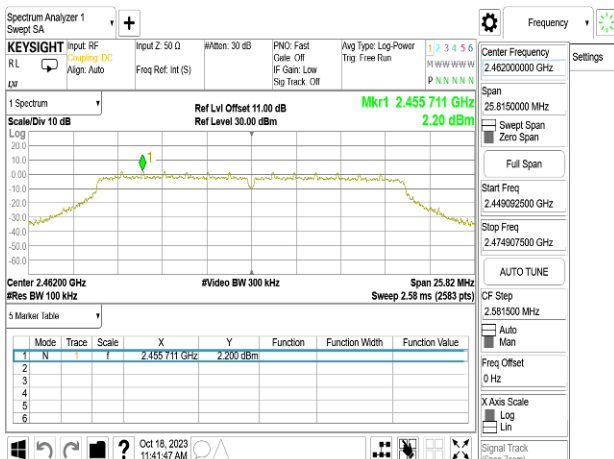
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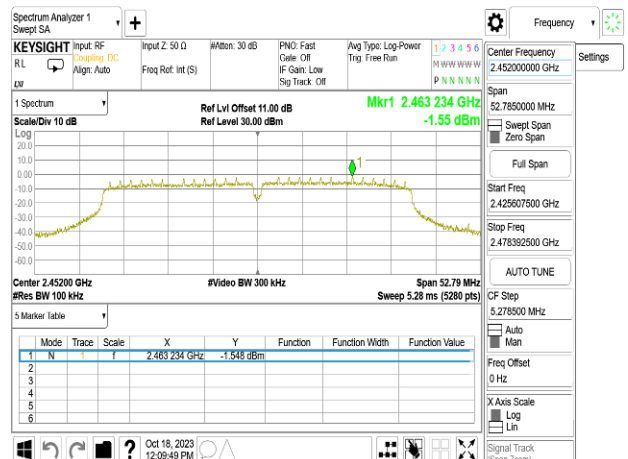
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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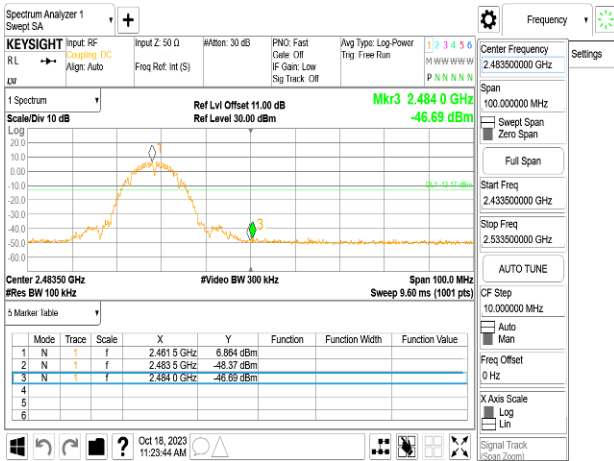
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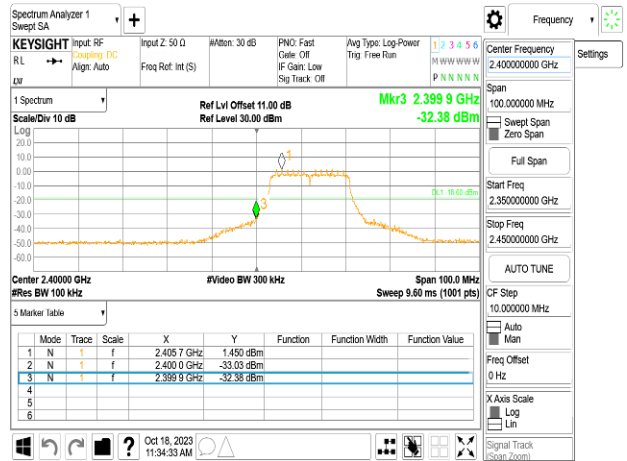
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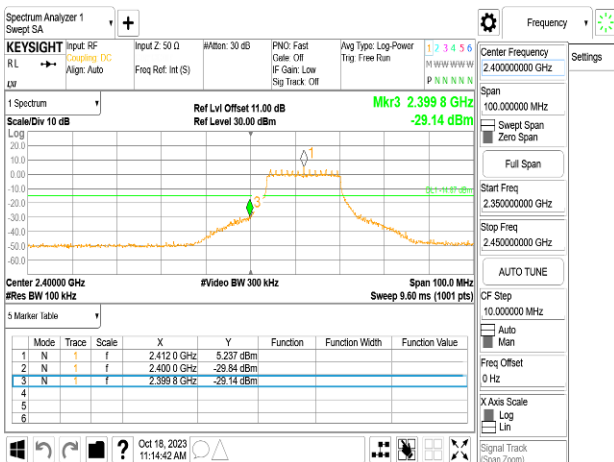
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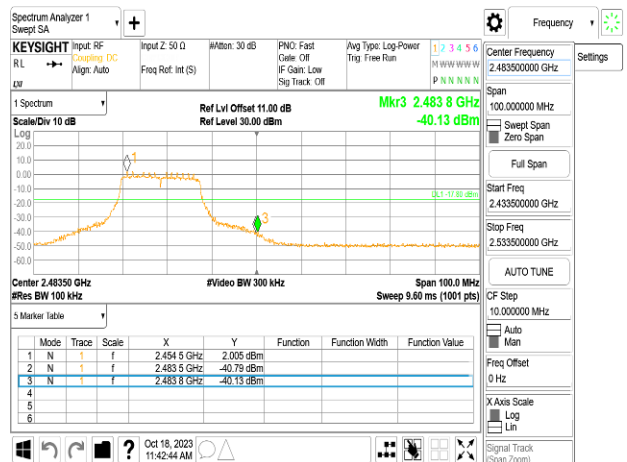
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802.11g_20MHz_Chain0_2412MHz



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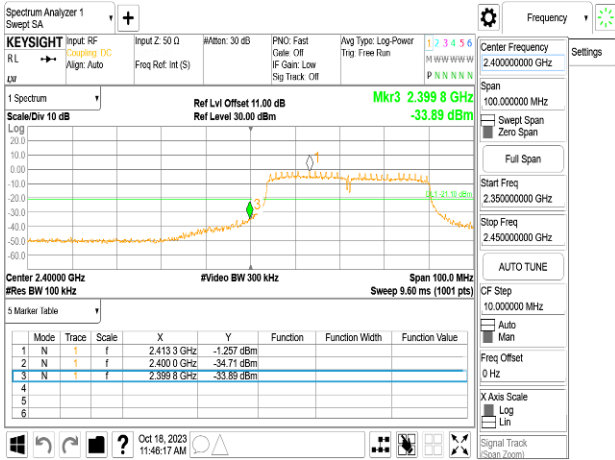


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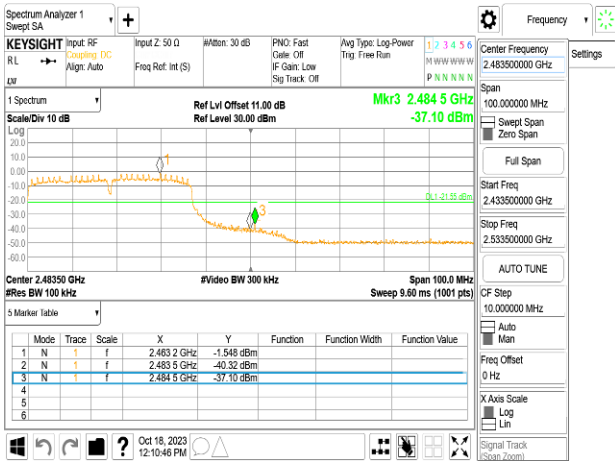
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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2452MHz

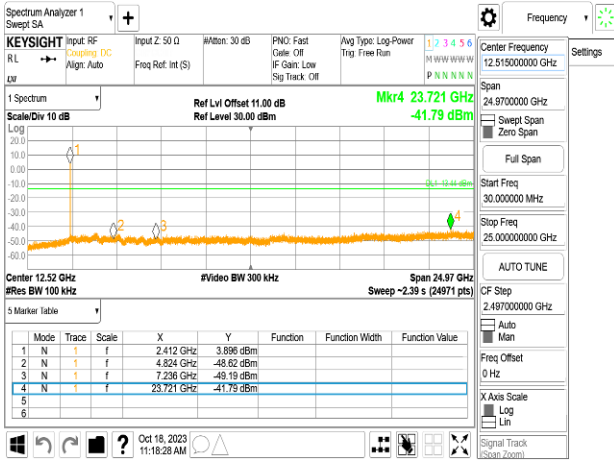


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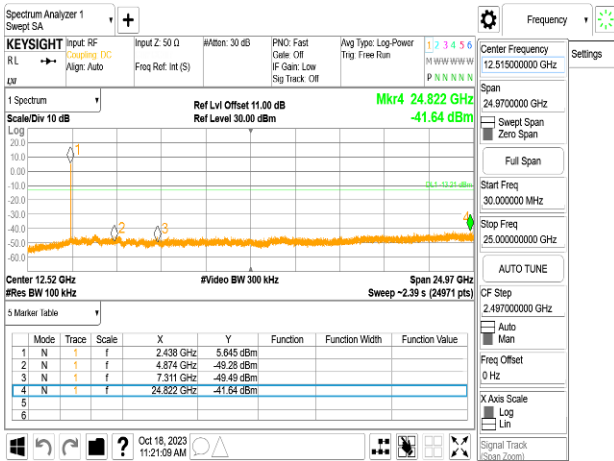
802.11b_20MHz_Chain0_2412MHz



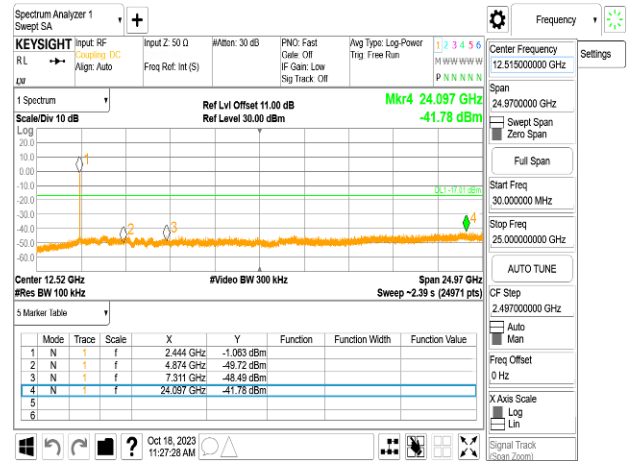
802.11g_20MHz_Chain0_2412MHz



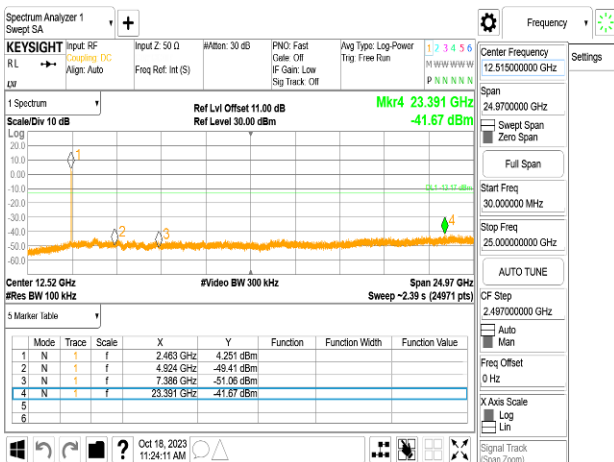
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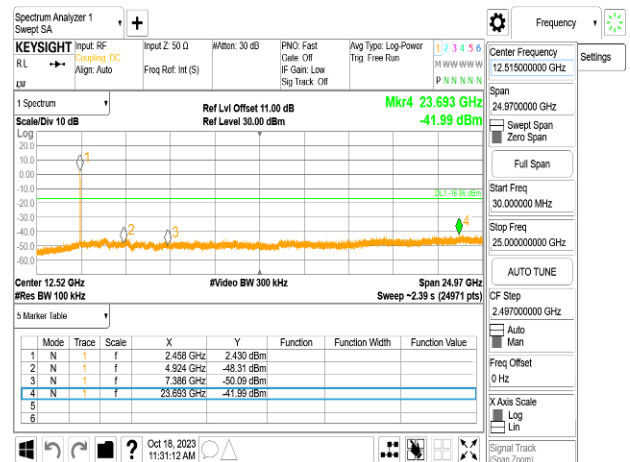
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

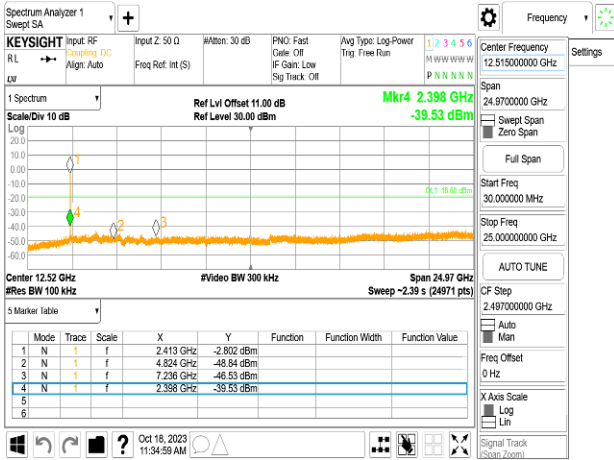


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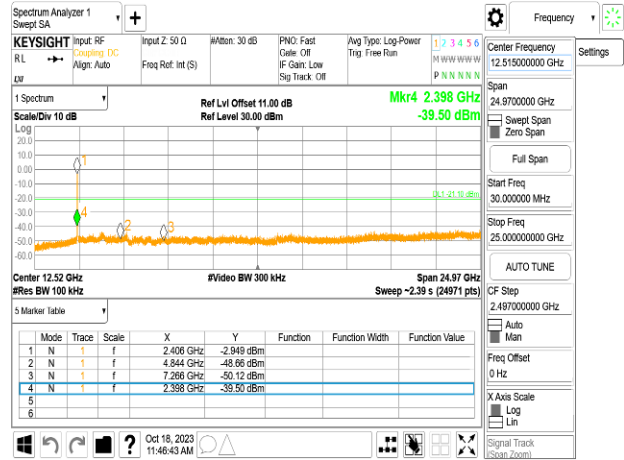
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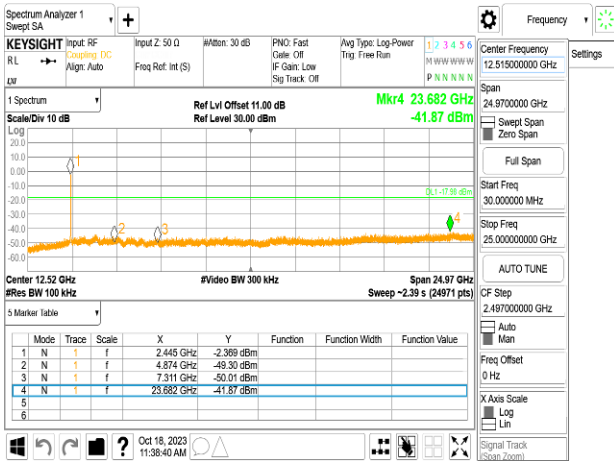
802.11n_20MHz_Chain0_2412MHz



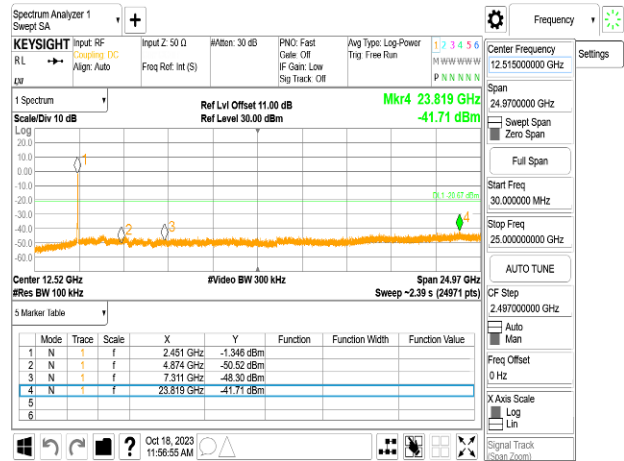
802.11n_40MHz_Chain0_2422MHz



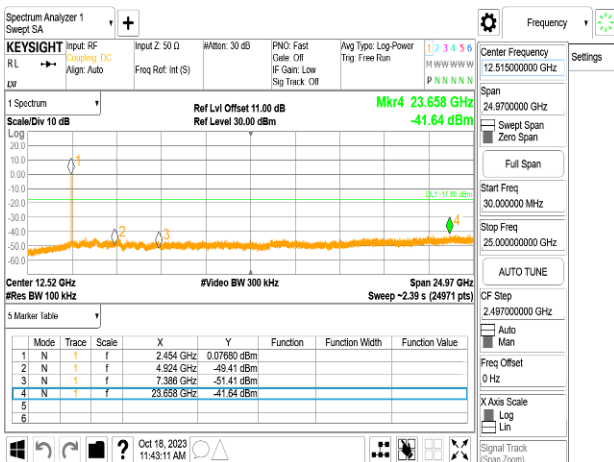
802.11n_20MHz_Chain0_2437MHz



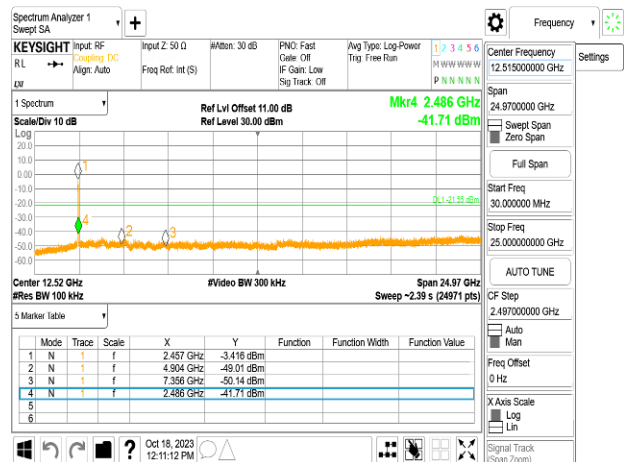
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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10 RADIATED BANDEDGE 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 must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

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

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

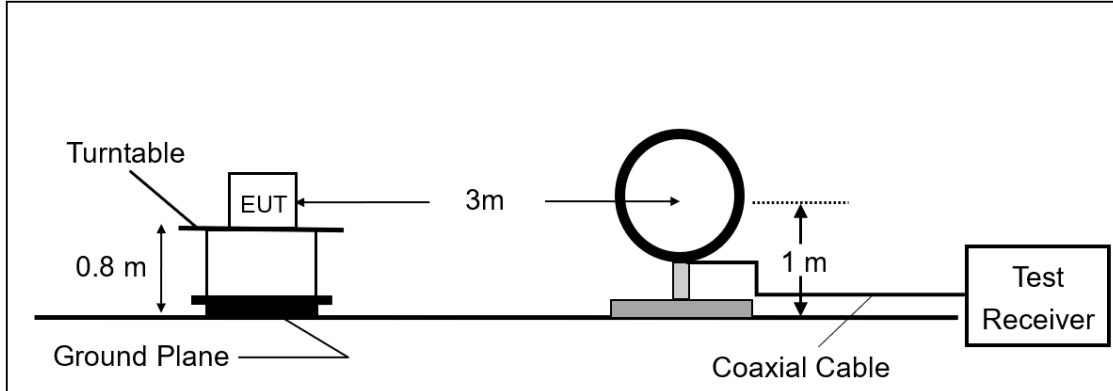
Note: The lower limit shall apply at the transition frequencies.

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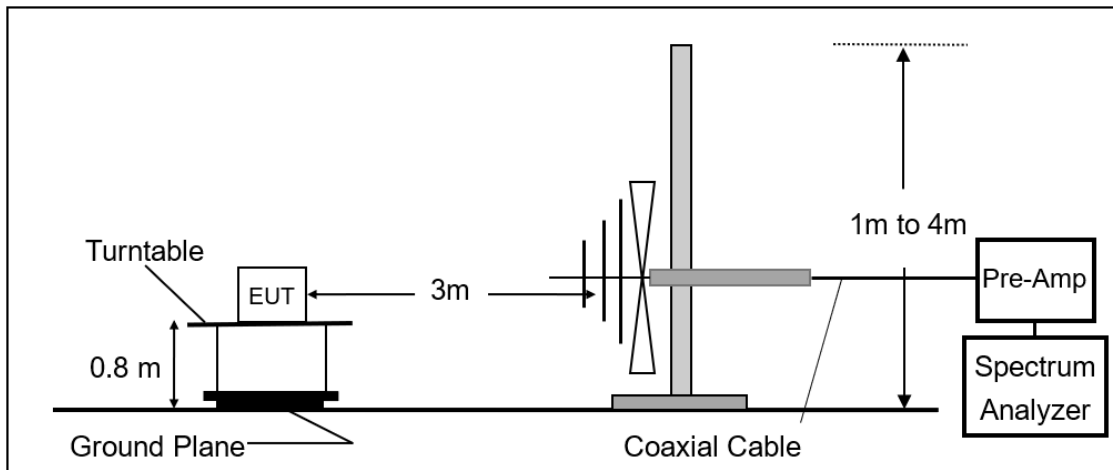
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10.2 Test Setup

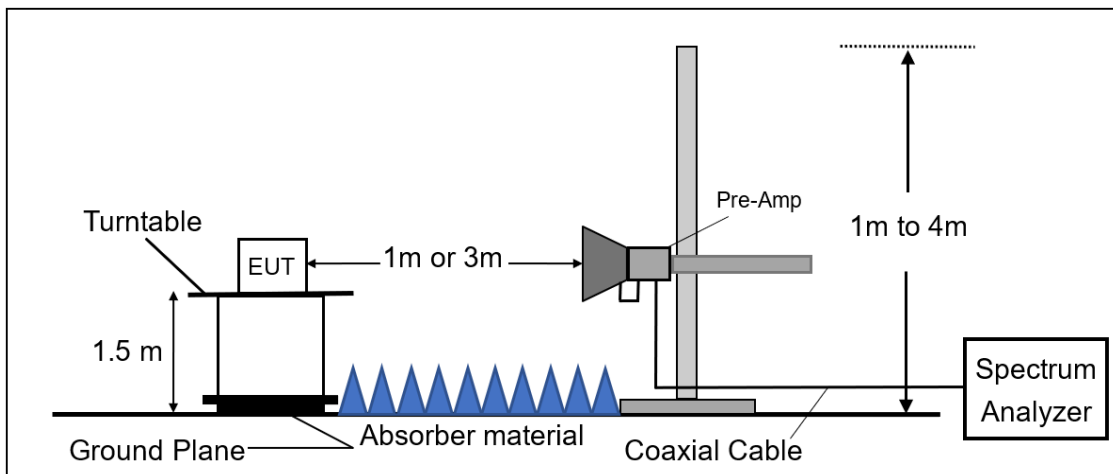
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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10.3 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.

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10.4 Field Strength Calculation

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

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

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

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

10.6 Measurement Result

Note:

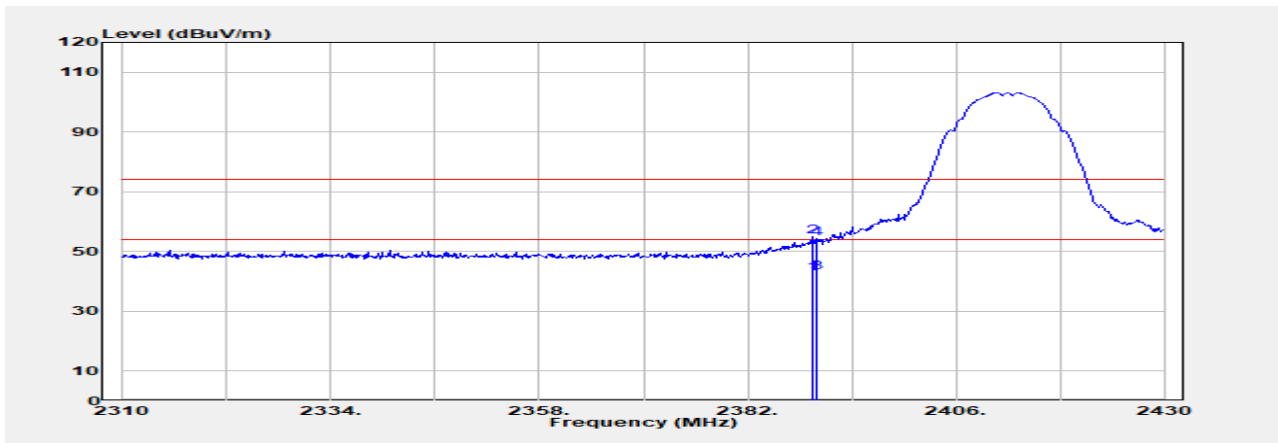
1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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10.6.1 Radiated Band Edge Measurement Result

Report Number	:TERF2309002386E2	Test Site	:SAC G Chamber
Operation Mode	:802.11b	Test Date	:2023-09-27
Test Frequency	:2412 MHz	Temp./Humi.	:22.2°C/60%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AVG	dB μ V		dB μ V/m	dB μ V/m	
2389.440	Average	46.21	-3.51	42.71	54.00	-11.29
2389.440	Peak	58.39	-3.51	54.88	74.00	-19.12
2390.000	Average	46.58	-3.51	43.07	54.00	-10.93
2390.000	Peak	57.70	-3.51	54.20	74.00	-19.80

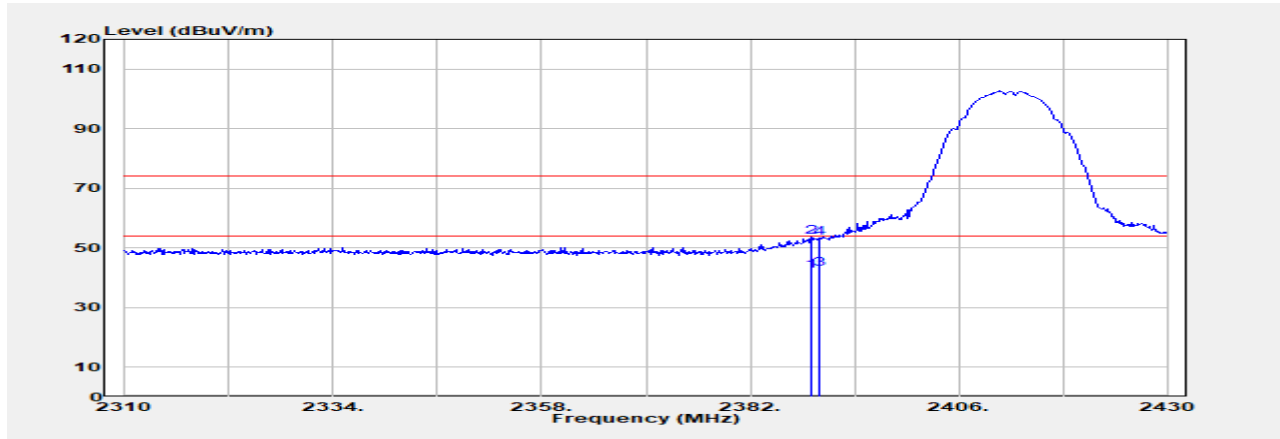
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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



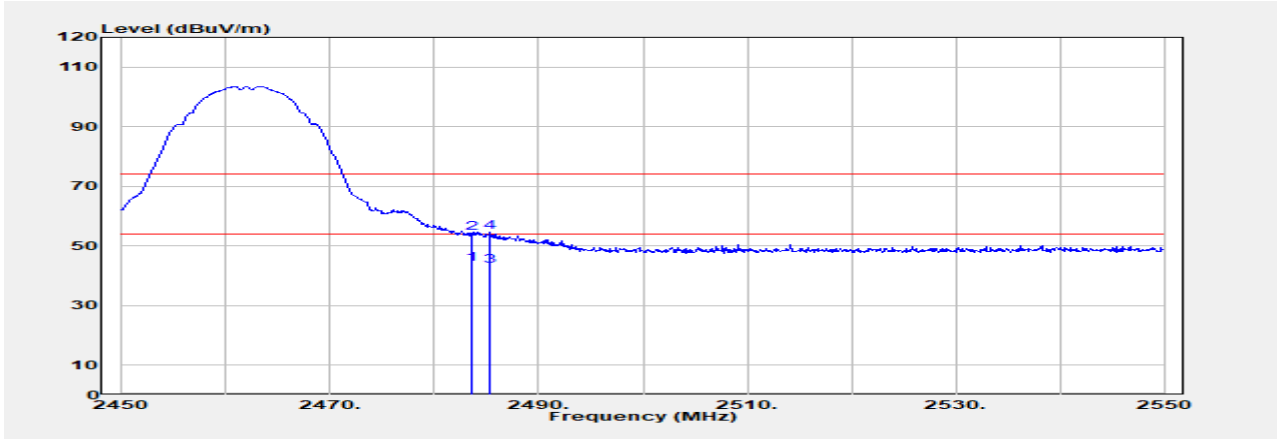
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.960	Average	45.72	-3.50	42.22	54.00	-11.78
2388.960	Peak	57.20	-3.50	53.70	74.00	-20.30
2390.000	Average	46.30	-3.51	42.79	54.00	-11.21
2390.000	Peak	56.68	-3.51	53.18	74.00	-20.82

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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



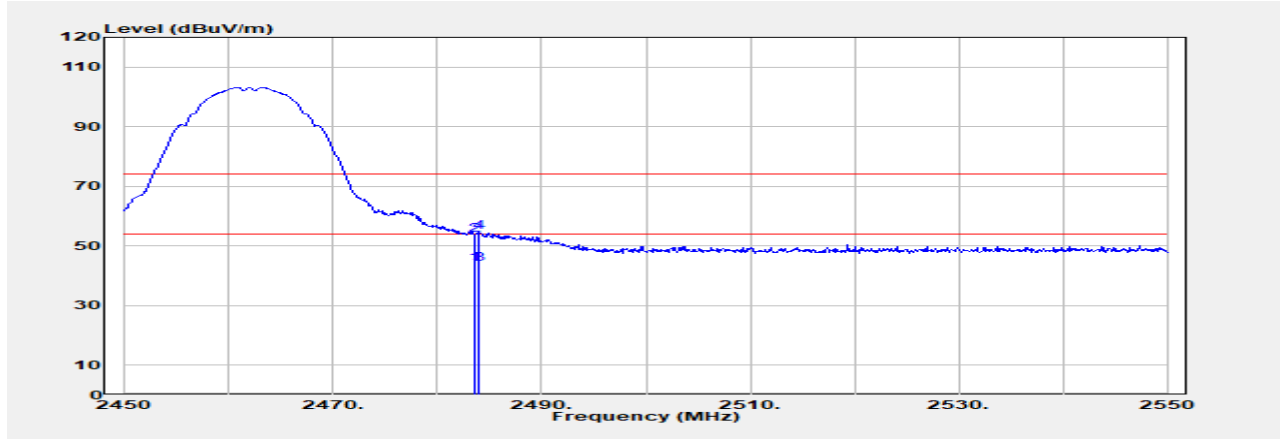
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.31	-3.54	43.77	54.00	-10.23
2483.500	Peak	57.71	-3.54	54.17	74.00	-19.83
2485.300	Average	46.76	-3.54	43.22	54.00	-10.78
2485.300	Peak	58.28	-3.54	54.74	74.00	-19.26

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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



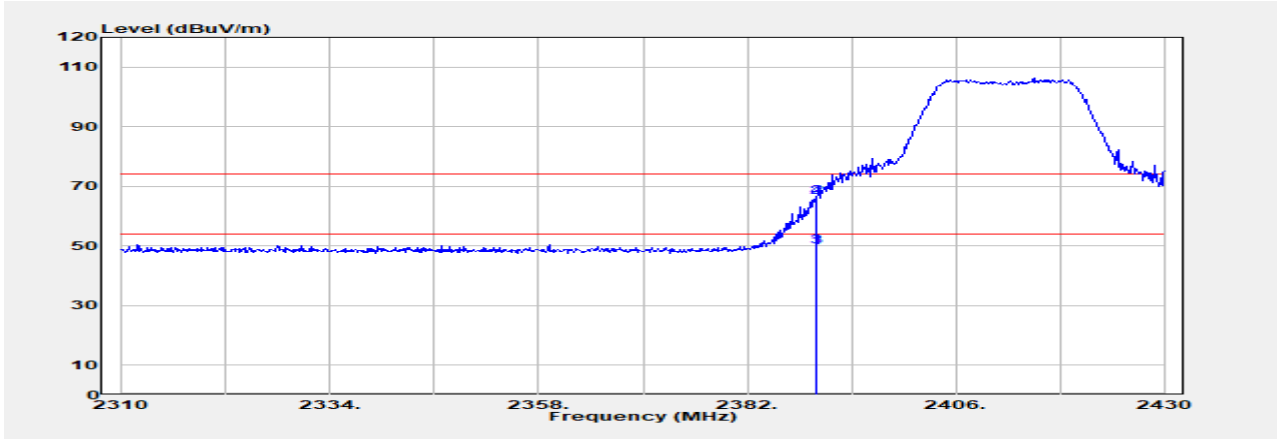
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	47.37	-3.54	43.83	54.00	-10.17
2483.500	Peak	57.11	-3.54	53.56	74.00	-20.44
2483.900	Average	47.42	-3.54	43.88	54.00	-10.12
2483.900	Peak	58.16	-3.54	54.62	74.00	-19.38

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.920	Average	52.89	-3.51	49.38	54.00	-4.62
2389.920	Peak	69.94	-3.51	66.43	74.00	-7.57
2390.000	Average	53.36	-3.51	49.85	54.00	-4.15
2390.000	Peak	69.98	-3.51	66.47	74.00	-7.53

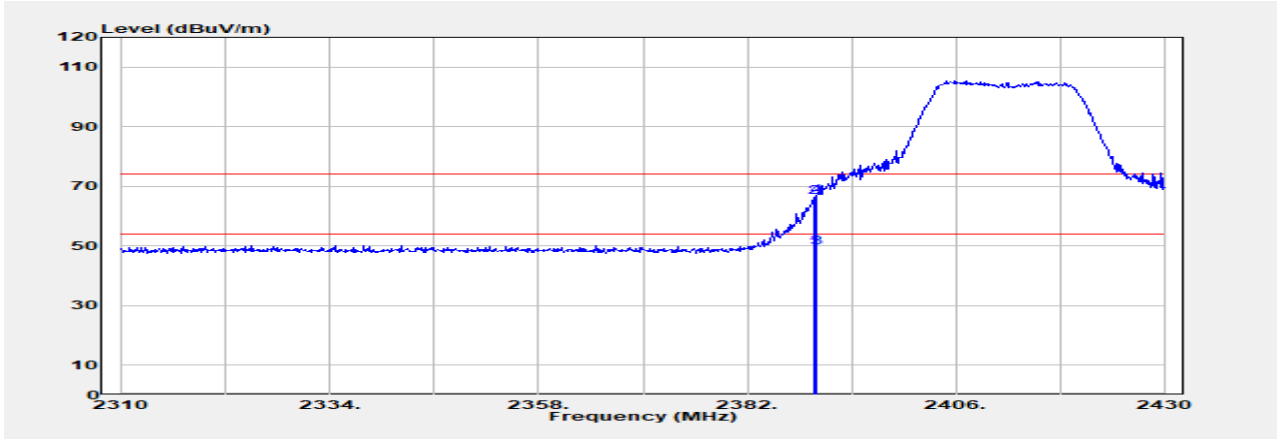
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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



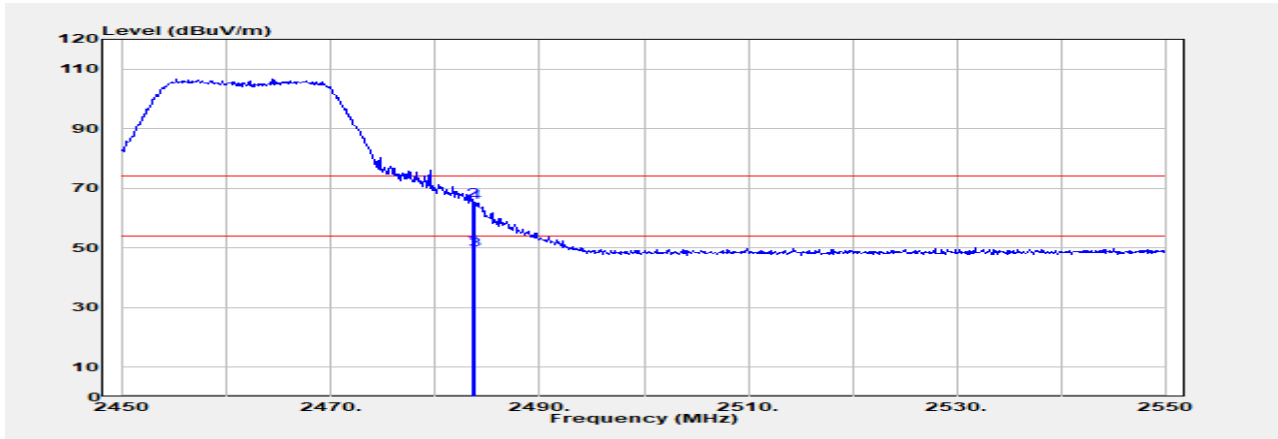
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.800	Average	52.51	-3.51	49.00	54.00	-5.00
2389.800	Peak	69.87	-3.51	66.36	74.00	-7.64
2390.000	Average	53.05	-3.51	49.54	54.00	-4.46
2390.000	Peak	70.15	-3.51	66.64	74.00	-7.36

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



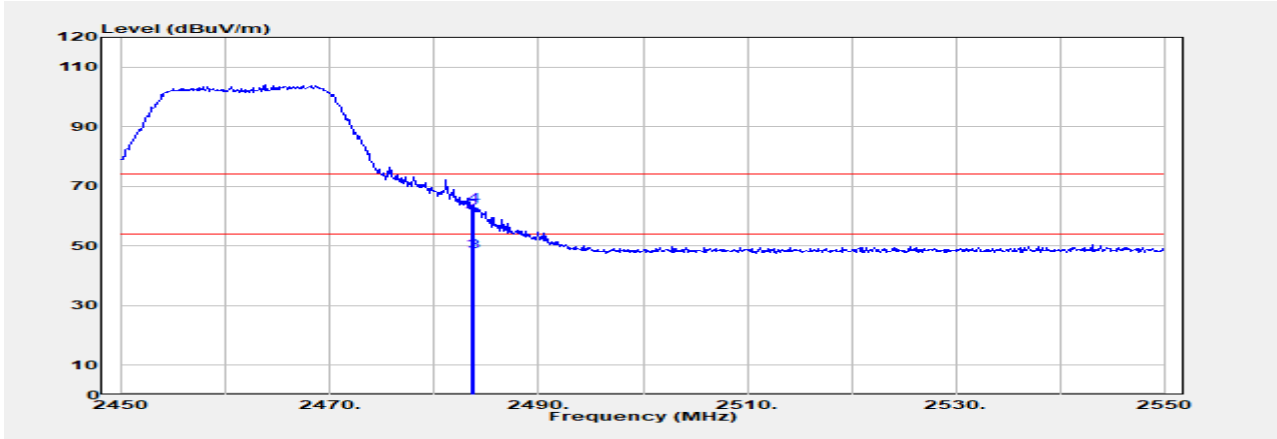
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	53.86	-3.54	50.32	54.00	-3.68
2483.500	Peak	69.70	-3.54	66.16	74.00	-7.84
2483.800	Average	53.13	-3.54	49.59	54.00	-4.41
2483.800	Peak	69.03	-3.54	65.48	74.00	-8.52

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



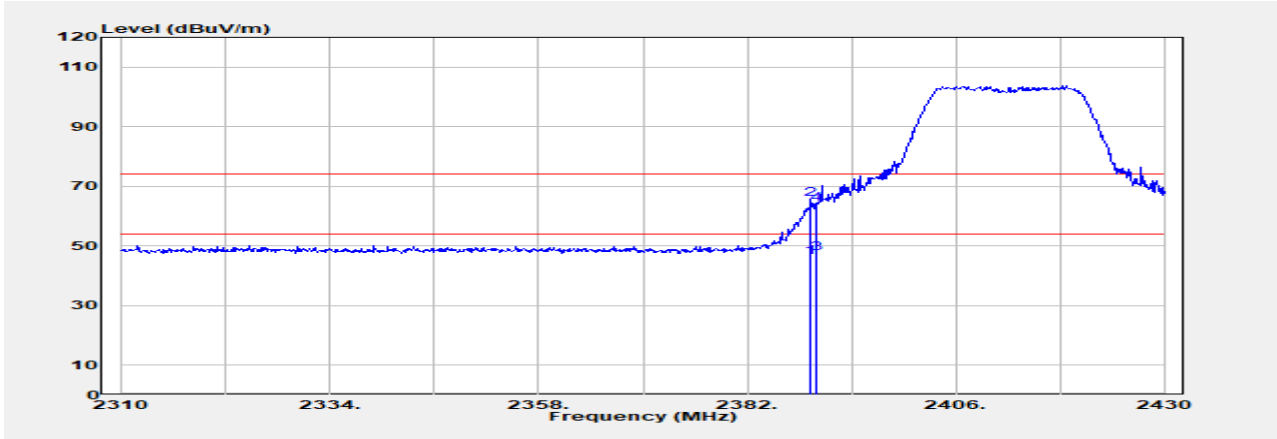
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	52.01	-3.54	48.47	54.00	-5.53
2483.500	Peak	65.11	-3.54	61.57	74.00	-12.43
2483.800	Average	51.61	-3.54	48.06	54.00	-5.94
2483.800	Peak	67.19	-3.54	63.65	74.00	-10.35

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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



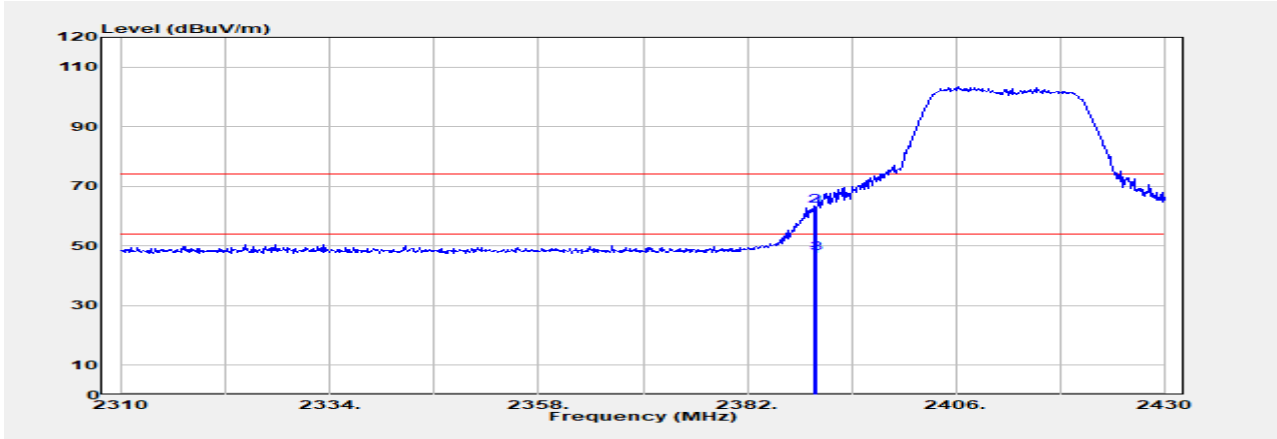
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.320	Average	49.84	-3.51	46.33	54.00	-7.67
2389.320	Peak	69.27	-3.51	65.76	74.00	-8.24
2390.000	Average	50.95	-3.51	47.44	54.00	-6.56
2390.000	Peak	67.68	-3.51	64.17	74.00	-9.83

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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



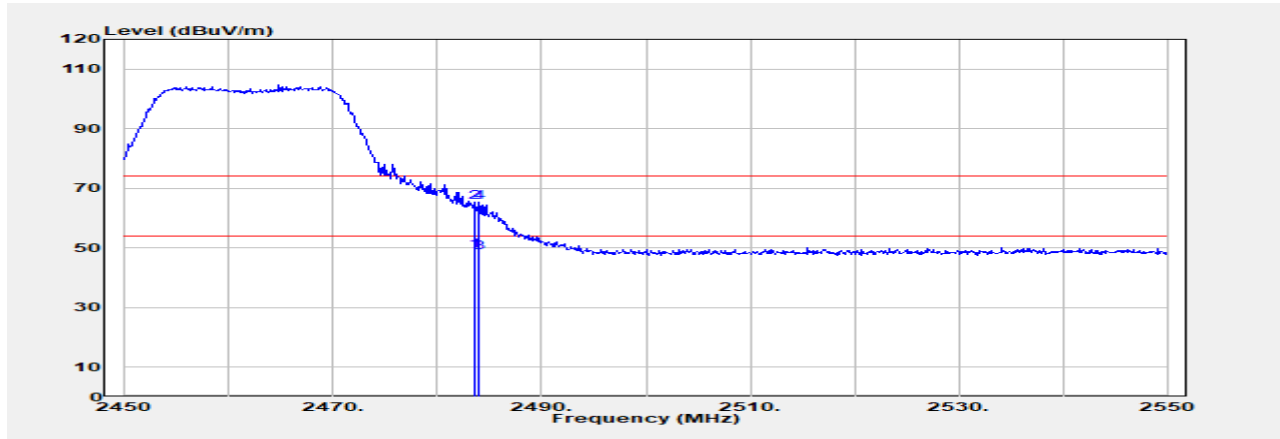
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.800	Average	50.09	-3.51	46.58	54.00	-7.42
2389.800	Peak	66.90	-3.51	63.39	74.00	-10.61
2390.000	Average	50.96	-3.51	47.45	54.00	-6.55
2390.000	Peak	66.39	-3.51	62.88	74.00	-11.12

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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



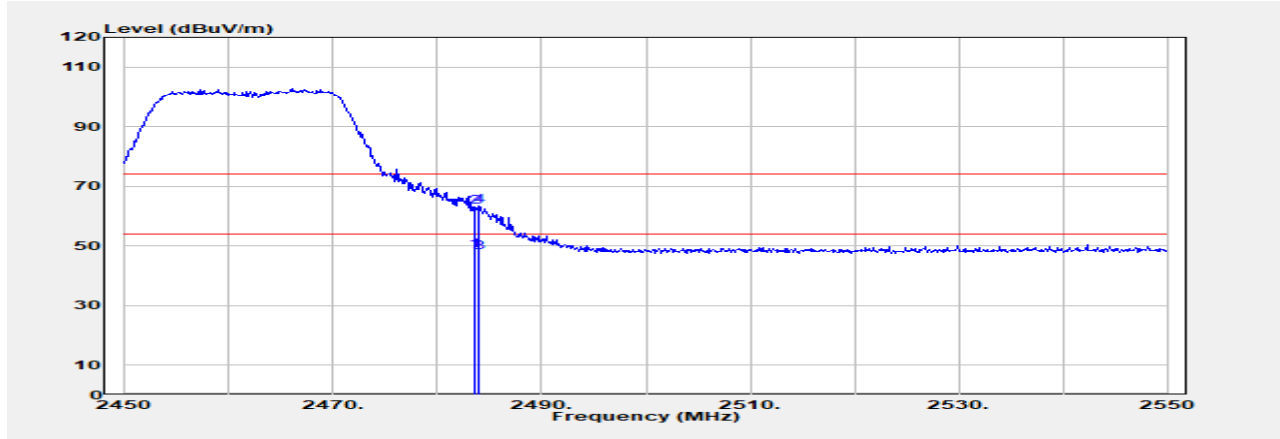
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	52.68	-3.54	49.14	54.00	-4.86
2483.500	Peak	68.88	-3.54	65.34	74.00	-8.66
2484.000	Average	51.99	-3.54	48.45	54.00	-5.55
2484.000	Peak	69.02	-3.54	65.47	74.00	-8.53

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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



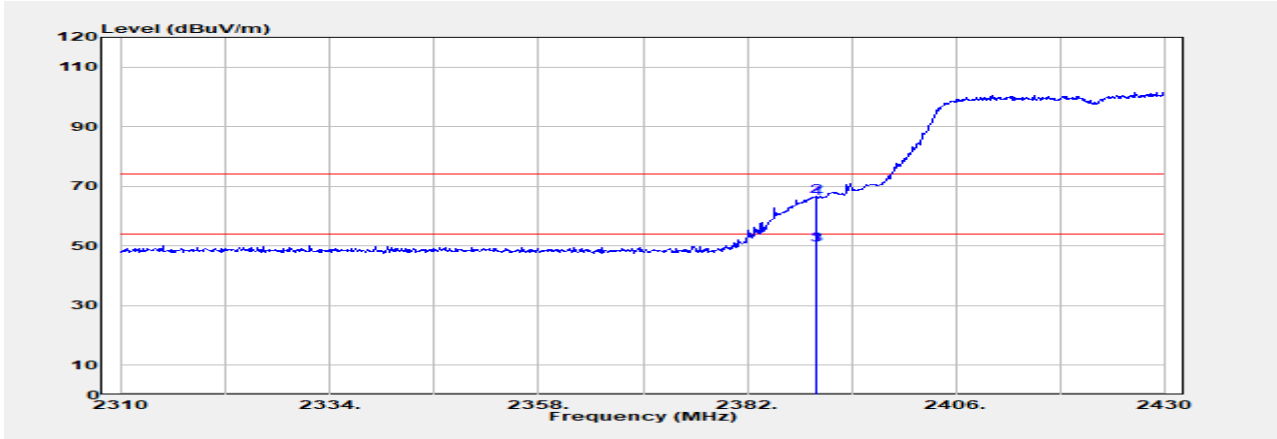
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	52.03	-3.54	48.48	54.00	-5.52
2483.500	Peak	66.61	-3.54	63.07	74.00	-10.93
2484.000	Average	51.25	-3.54	47.71	54.00	-6.29
2484.000	Peak	66.92	-3.54	63.38	74.00	-10.62

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



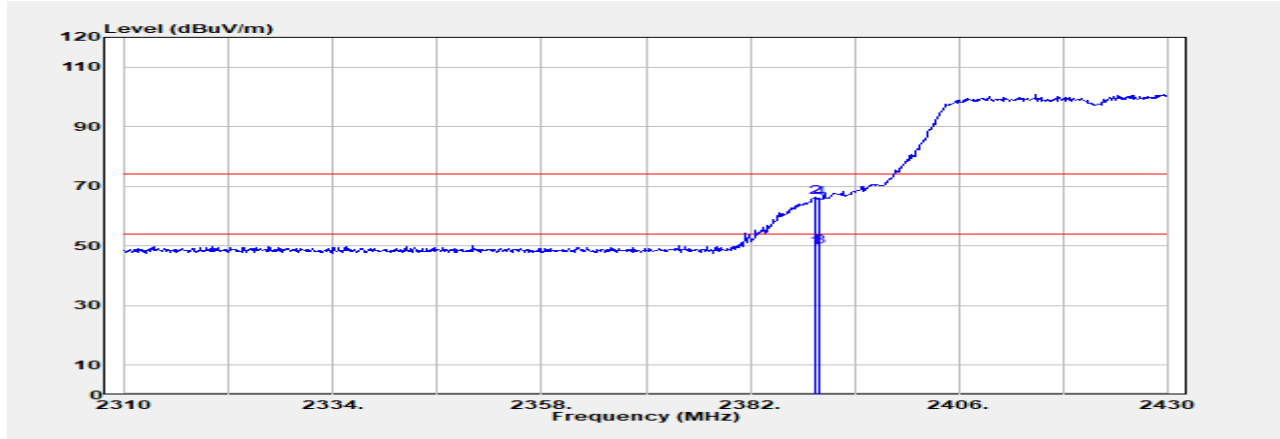
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.920	Average	54.01	-3.51	50.50	54.00	-3.50
2389.920	Peak	70.20	-3.51	66.69	74.00	-7.31
2390.000	Average	53.81	-3.51	50.30	54.00	-3.70
2390.000	Peak	69.60	-3.51	66.09	74.00	-7.91

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



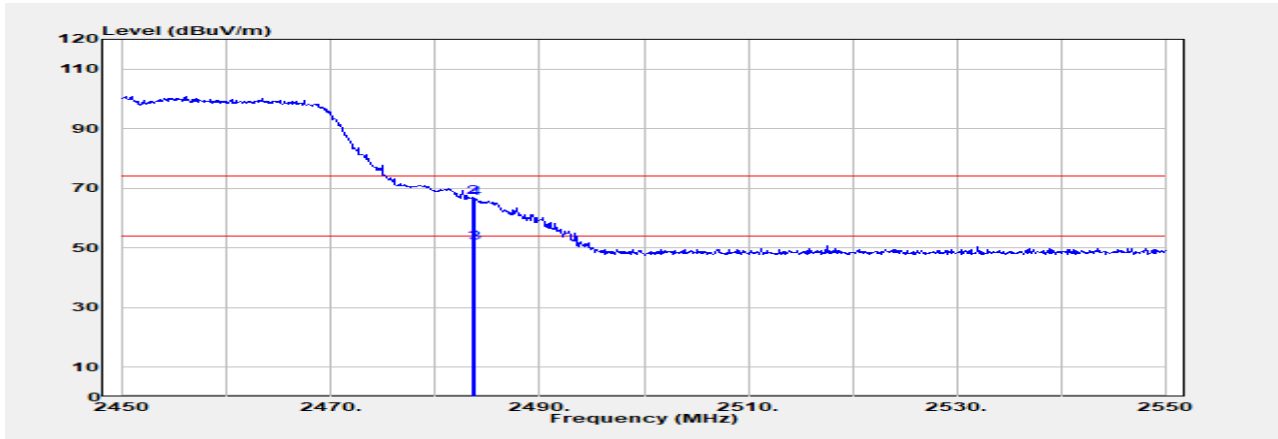
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.560	Average	53.02	-3.51	49.51	54.00	-4.49
2389.560	Peak	69.69	-3.51	66.18	74.00	-7.82
2390.000	Average	53.30	-3.51	49.79	54.00	-4.21
2390.000	Peak	69.62	-3.51	66.11	74.00	-7.89

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



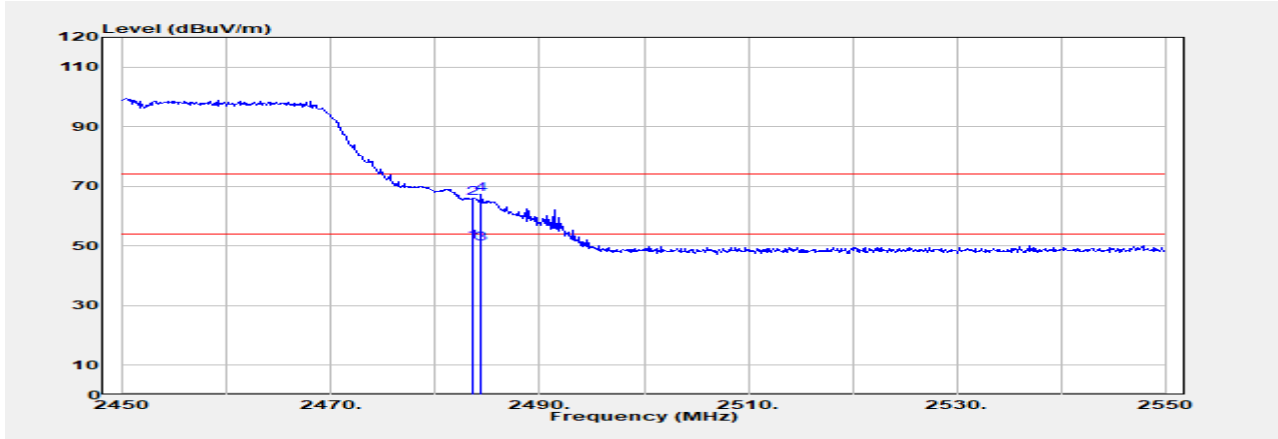
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	55.44	-3.54	51.89	54.00	-2.11
2483.500	Peak	70.44	-3.54	66.90	74.00	-7.10
2483.700	Average	55.22	-3.54	51.68	54.00	-2.32
2483.700	Peak	70.21	-3.54	66.67	74.00	-7.33

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



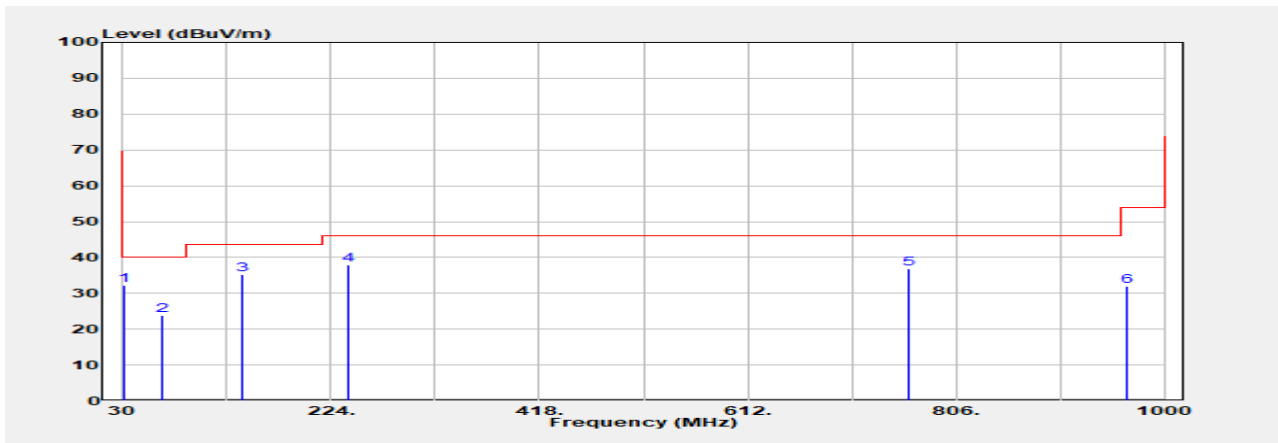
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	54.87	-3.54	51.33	54.00	-2.67
2483.500	Peak	69.55	-3.54	66.01	74.00	-7.99
2484.400	Average	54.13	-3.54	50.59	54.00	-3.41
2484.400	Peak	70.91	-3.54	67.36	74.00	-6.64

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10.6.2 Spurious Emission:

Report Number	:TERF2309002386E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2023-10-02
Test Frequency	:2437 MHz	Temp./Humi.	:23.6°C/60%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



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
31.940	QP	46.50	-14.31	32.19	40.00	-7.81
65.890	QP	38.20	-14.38	23.82	40.00	-16.18
141.550	QP	48.40	-13.30	35.10	43.50	-8.40
240.490	QP	51.90	-14.07	37.83	46.00	-8.17
762.350	Peak	38.80	-1.88	36.92	46.00	-9.08
965.080	Peak	31.04	0.88	31.92	54.00	-22.08

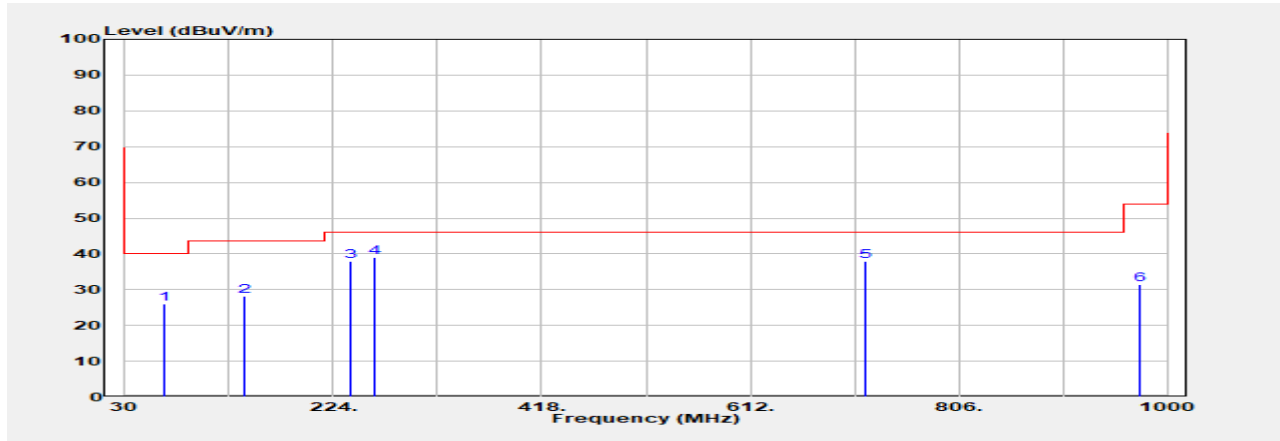
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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-10-02
 Temp./Humi. :23.6°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



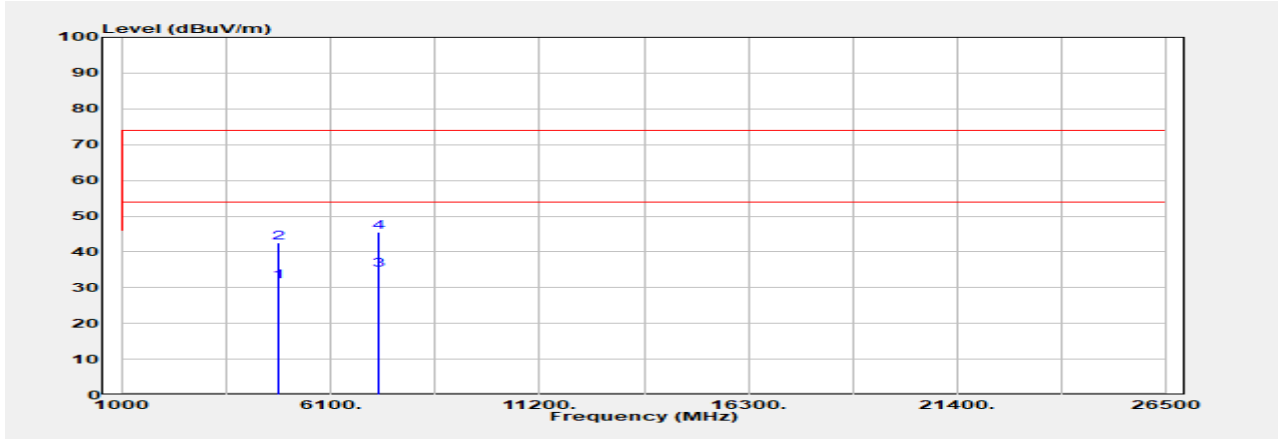
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
66.860	Peak	40.26	-14.32	25.94	40.00	-14.06
140.580	QP	41.70	-13.41	28.29	43.50	-15.21
240.490	QP	52.00	-14.07	37.93	46.00	-8.07
262.800	Peak	52.37	-13.22	39.15	46.00	-6.85
719.670	Peak	41.23	-3.39	37.84	46.00	-8.16
973.810	Peak	30.61	0.92	31.53	54.00	-22.47

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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



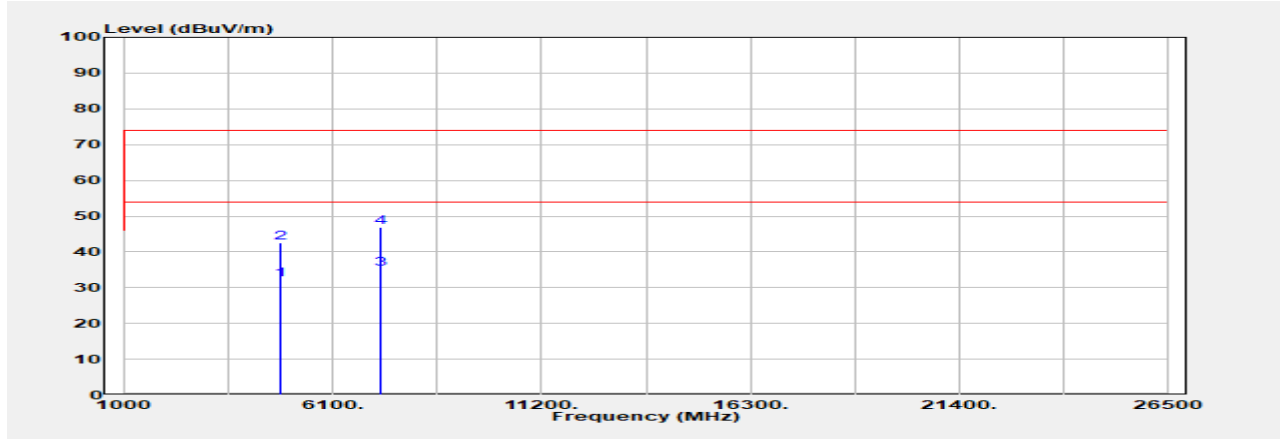
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	28.54	3.28	31.83	54.00	-22.17
4824.000	Peak	39.19	3.28	42.47	74.00	-31.53
7236.000	Average	26.55	8.54	35.08	54.00	-18.92
7236.000	Peak	37.06	8.54	45.59	74.00	-28.41

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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	29.01	3.28	32.29	54.00	-21.71
4824.000	Peak	39.29	3.28	42.58	74.00	-31.42
7236.000	Average	26.68	8.54	35.21	54.00	-18.79
7236.000	Peak	38.29	8.54	46.83	74.00	-27.17

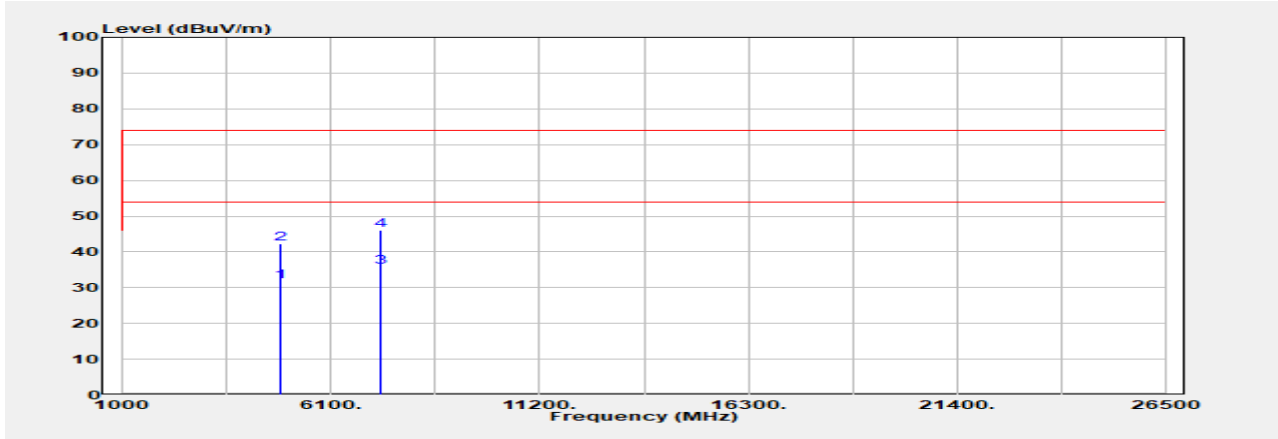
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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



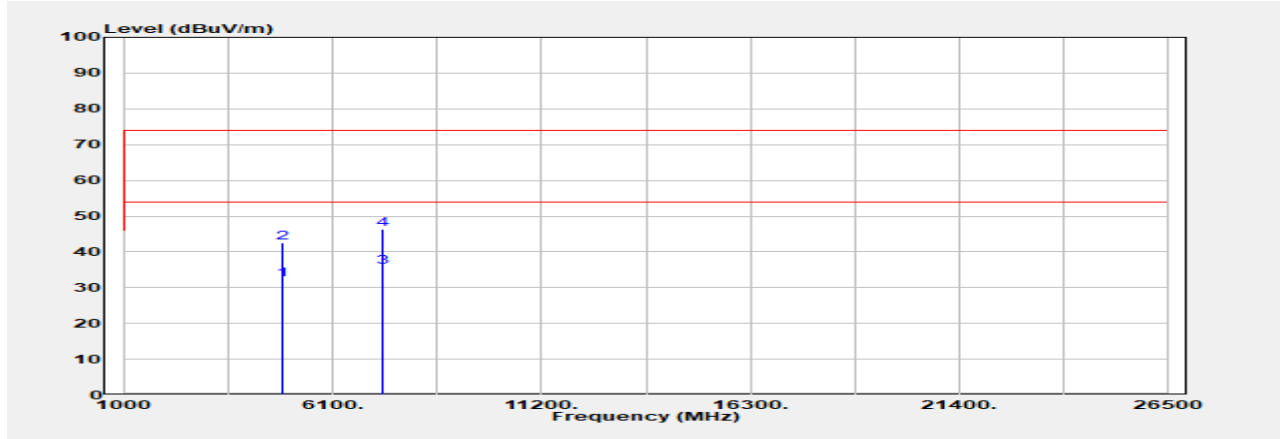
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.41	3.35	31.76	54.00	-22.24
4874.000	Peak	38.92	3.35	42.28	74.00	-31.72
7311.000	Average	27.17	8.58	35.75	54.00	-18.25
7311.000	Peak	37.60	8.58	46.18	74.00	-27.82

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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



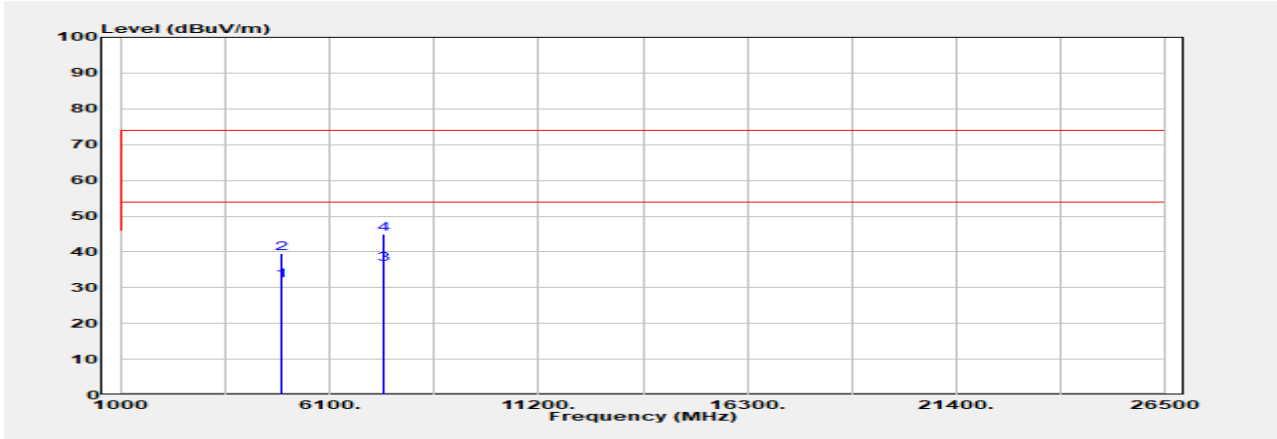
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.88	3.35	32.23	54.00	-21.77
4874.000	Peak	39.32	3.35	42.67	74.00	-31.33
7311.000	Average	27.07	8.58	35.65	54.00	-18.35
7311.000	Peak	37.75	8.58	46.33	74.00	-27.67

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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



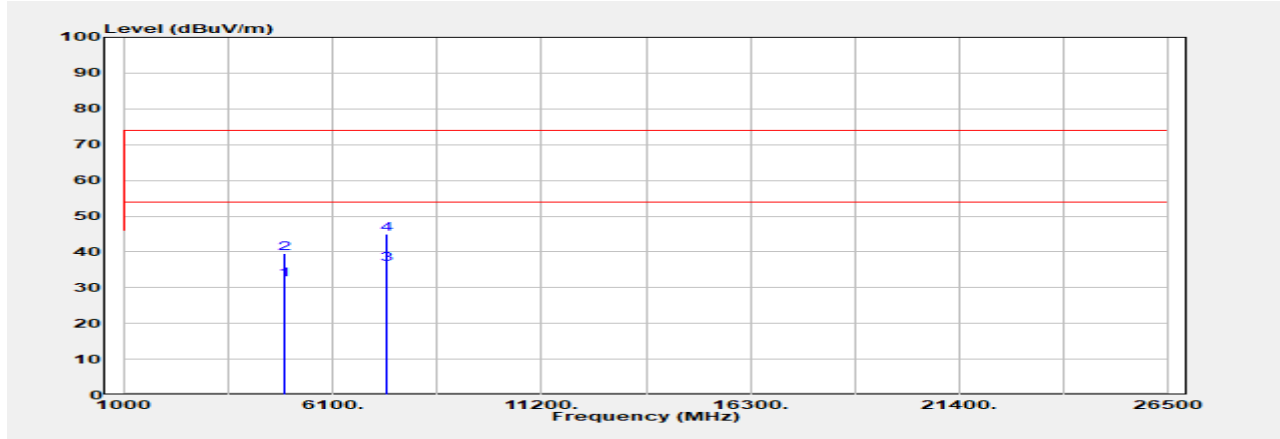
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	28.44	3.46	31.90	54.00	-22.10
4924.000	Peak	36.08	3.46	39.55	74.00	-34.45
7386.000	Average	27.54	9.03	36.57	54.00	-17.43
7386.000	Peak	36.04	9.03	45.07	74.00	-28.93

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Report Number :TERF2309002386E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



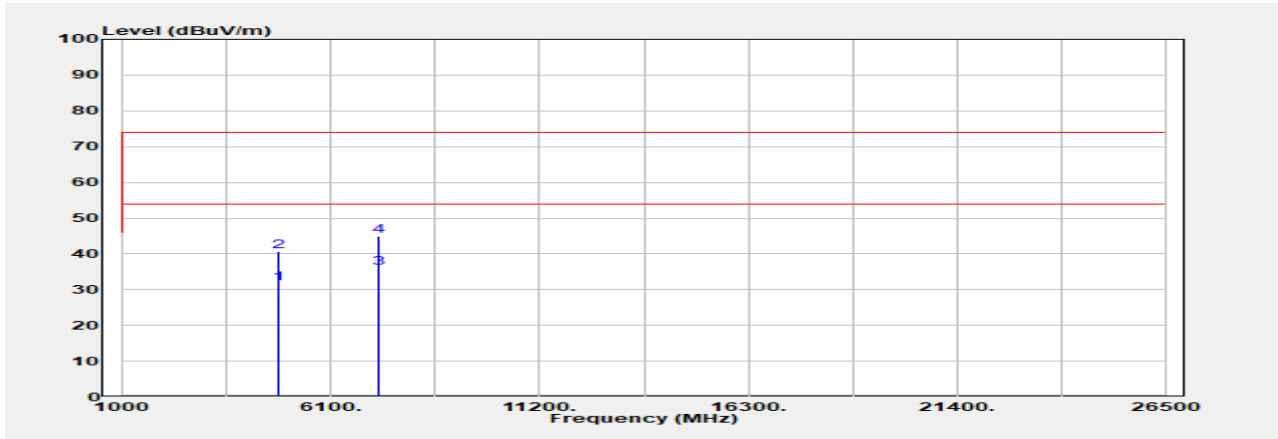
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	28.69	3.46	32.15	54.00	-21.85
4924.000	Peak	36.09	3.46	39.56	74.00	-34.44
7386.000	Average	27.48	9.03	36.51	54.00	-17.49
7386.000	Peak	35.97	9.03	45.00	74.00	-29.00

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



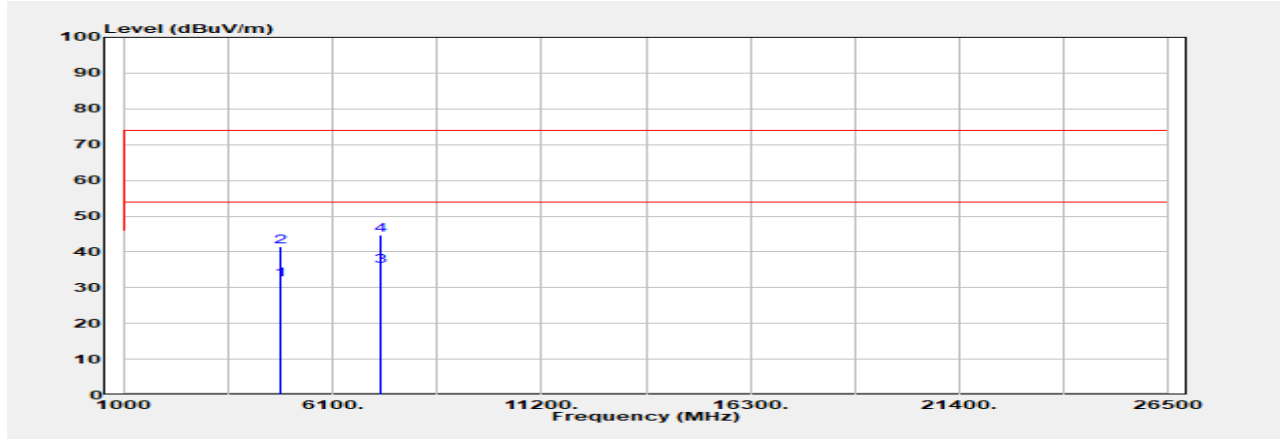
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.000	Average	28.44	3.28	31.72	54.00	-22.28
4824.000	Peak	37.42	3.28	40.71	74.00	-33.29
7236.000	Average	27.58	8.54	36.12	54.00	-17.88
7236.000	Peak	36.51	8.54	45.04	74.00	-28.96

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



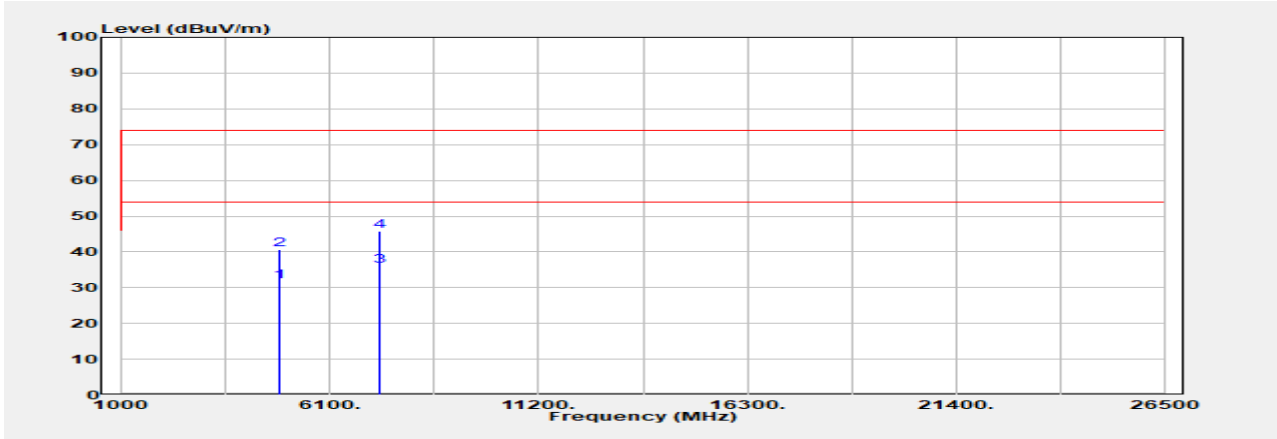
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	28.96	3.28	32.24	54.00	-21.76
4824.000	Peak	38.12	3.28	41.40	74.00	-32.60
7236.000	Average	27.62	8.54	36.16	54.00	-17.84
7236.000	Peak	36.22	8.54	44.76	74.00	-29.24

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.42	3.35	31.77	54.00	-22.23
4874.000	Peak	37.35	3.35	40.71	74.00	-33.29
7311.000	Average	27.35	8.58	35.93	54.00	-18.07
7311.000	Peak	37.27	8.58	45.84	74.00	-28.16

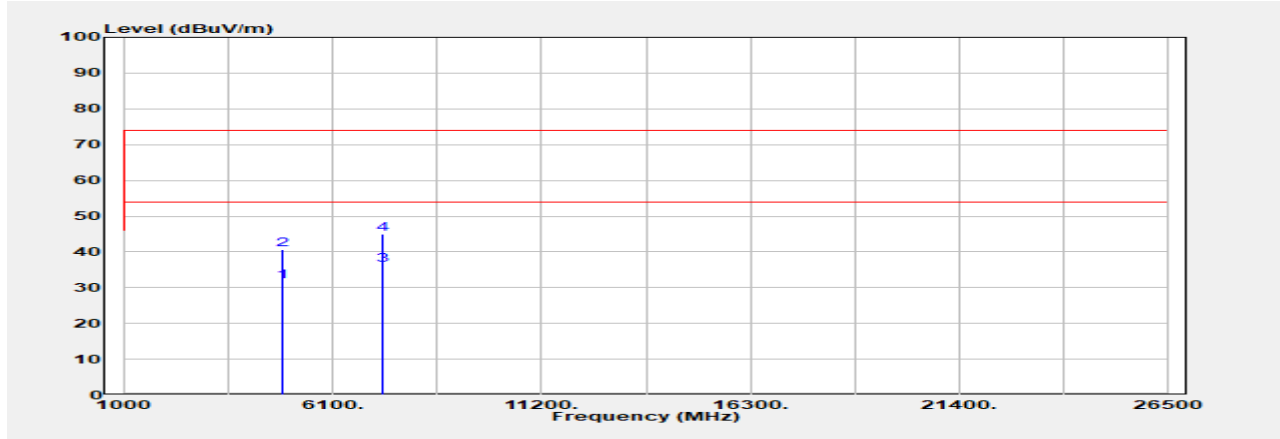
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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



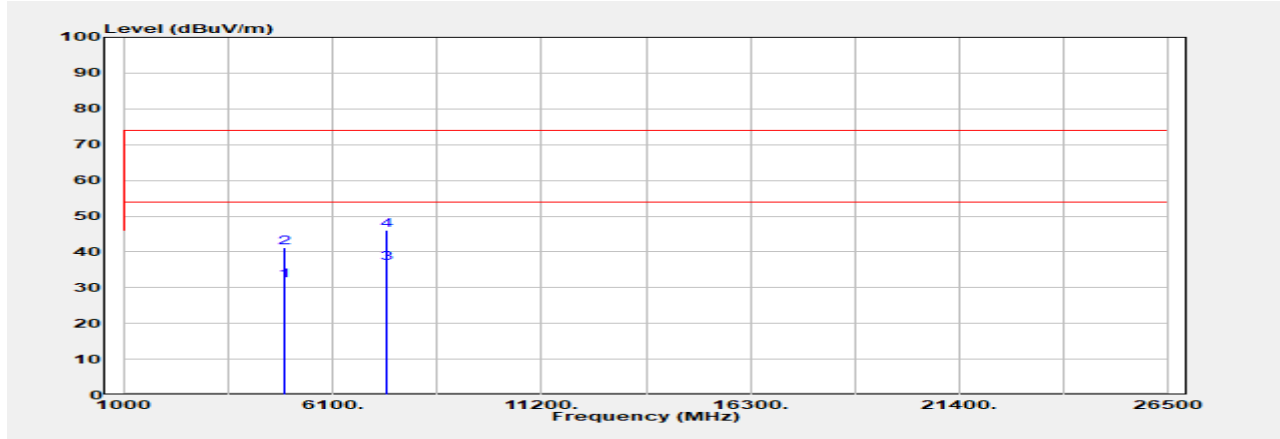
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.36	3.35	31.71	54.00	-22.29
4874.000	Peak	37.21	3.35	40.56	74.00	-33.44
7311.000	Average	27.81	8.58	36.39	54.00	-17.61
7311.000	Peak	36.50	8.58	45.08	74.00	-28.92

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



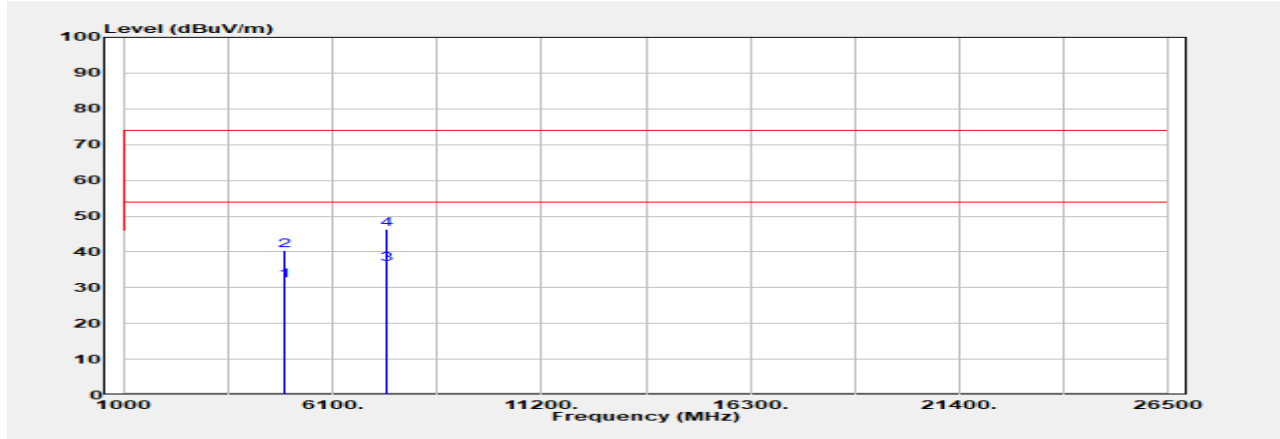
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	28.44	3.46	31.90	54.00	-22.10
4924.000	Peak	37.60	3.46	41.07	74.00	-32.93
7386.000	Average	27.72	9.03	36.75	54.00	-17.25
7386.000	Peak	37.03	9.03	46.06	74.00	-27.94

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Report Number :TERF2309002386E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



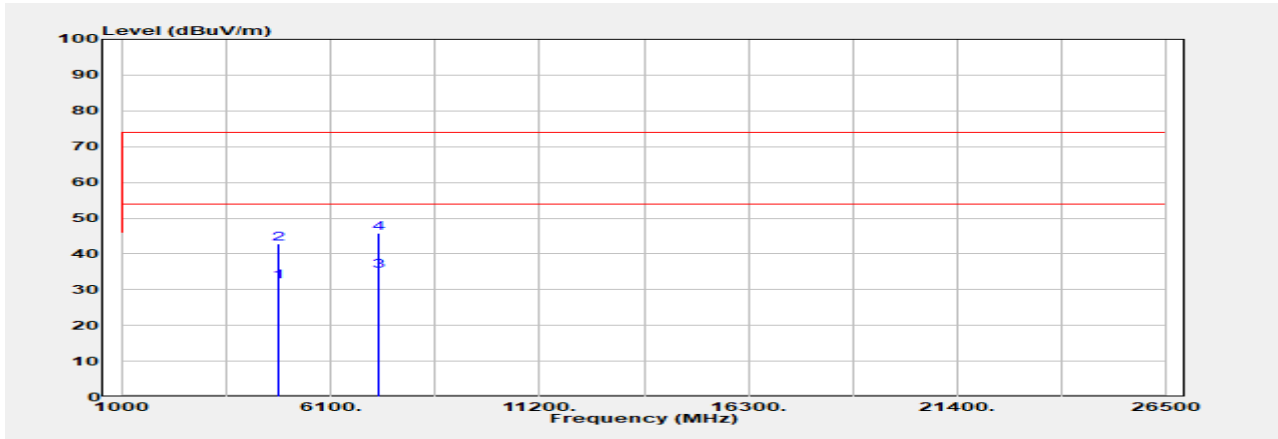
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	28.47	3.46	31.93	54.00	-22.07
4924.000	Peak	36.89	3.46	40.35	74.00	-33.65
7386.000	Average	27.66	9.03	36.69	54.00	-17.31
7386.000	Peak	37.38	9.03	46.41	74.00	-27.59

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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



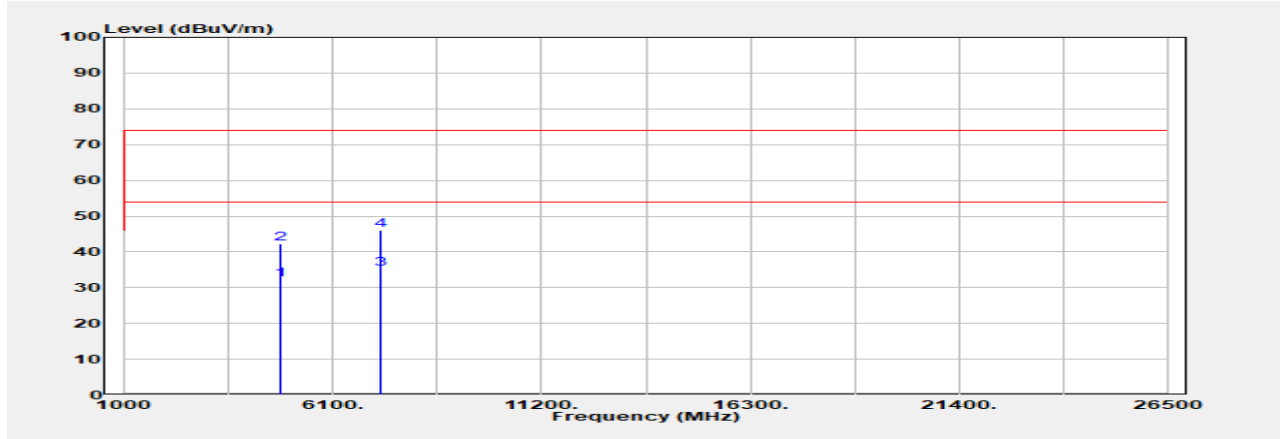
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	29.02	3.28	32.30	54.00	-21.70
4824.000	Peak	39.64	3.28	42.92	74.00	-31.08
7236.000	Average	26.70	8.54	35.24	54.00	-18.76
7236.000	Peak	37.23	8.54	45.77	74.00	-28.23

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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	28.89	3.28	32.17	54.00	-21.83
4824.000	Peak	39.07	3.28	42.35	74.00	-31.65
7236.000	Average	26.74	8.54	35.28	54.00	-18.72
7236.000	Peak	37.40	8.54	45.94	74.00	-28.06

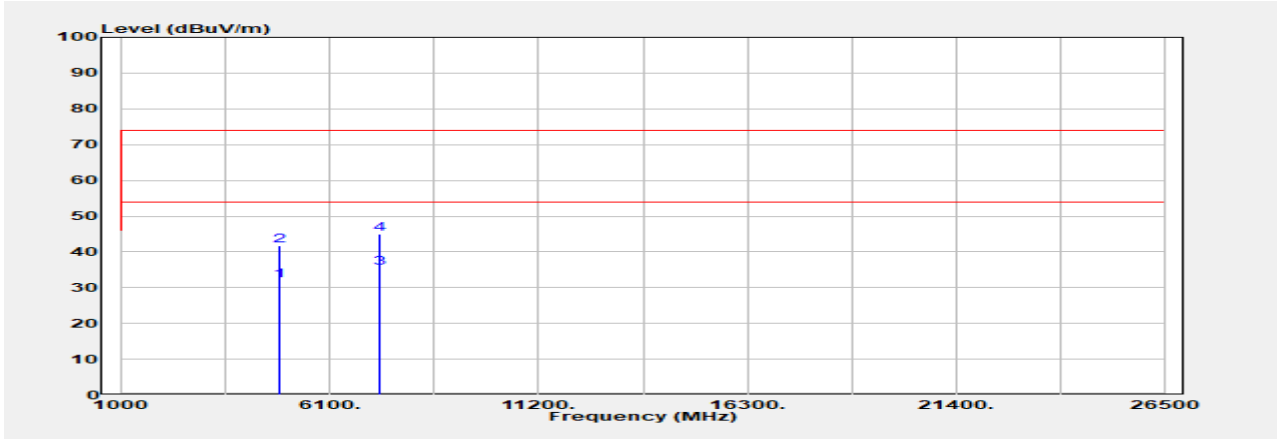
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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.54	3.35	31.89	54.00	-22.11
4874.000	Peak	38.41	3.35	41.77	74.00	-32.23
7311.000	Average	26.96	8.58	35.54	54.00	-18.46
7311.000	Peak	36.33	8.58	44.91	74.00	-29.09

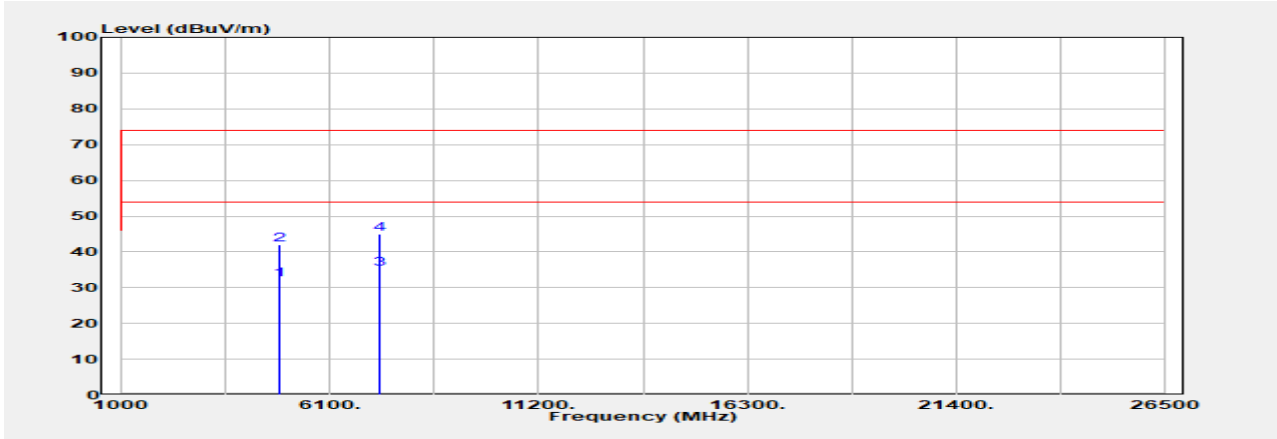
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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.88	3.35	32.23	54.00	-21.77
4874.000	Peak	38.54	3.35	41.90	74.00	-32.10
7311.000	Average	26.74	8.58	35.32	54.00	-18.68
7311.000	Peak	36.54	8.58	45.12	74.00	-28.88

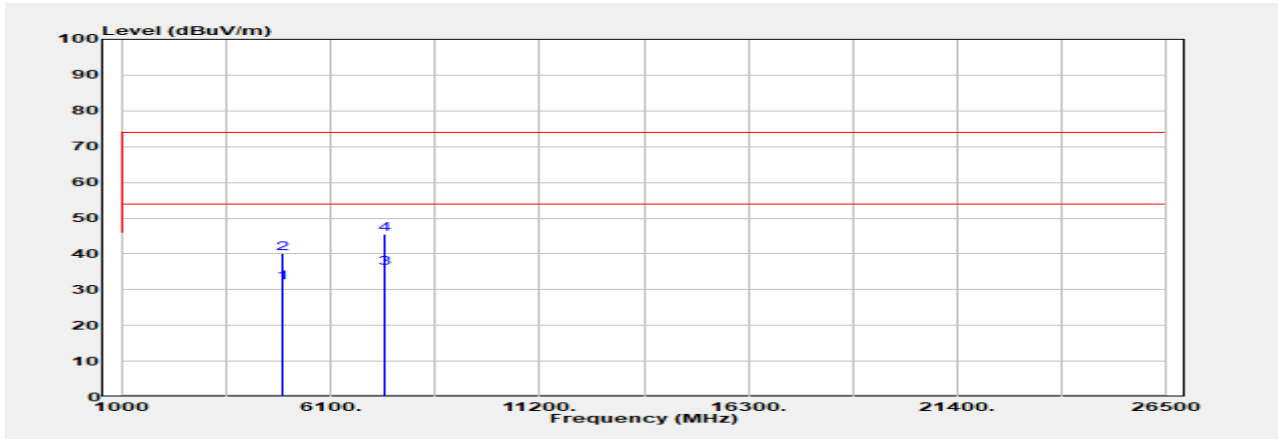
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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	28.59	3.46	32.05	54.00	-21.95
4924.000	Peak	36.74	3.46	40.21	74.00	-33.79
7386.000	Average	27.03	9.03	36.06	54.00	-17.94
7386.000	Peak	36.39	9.03	45.42	74.00	-28.58

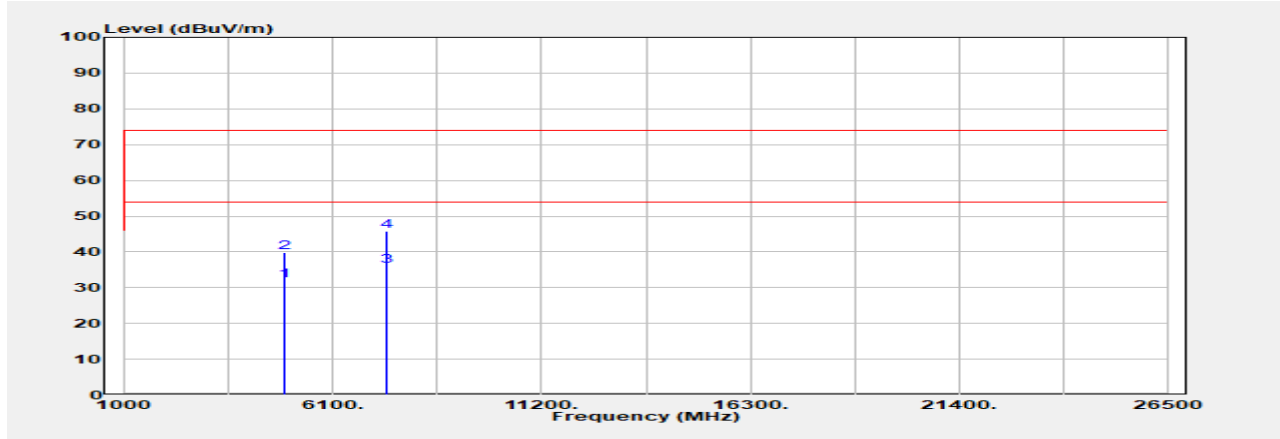
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Report Number :TERF2309002386E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



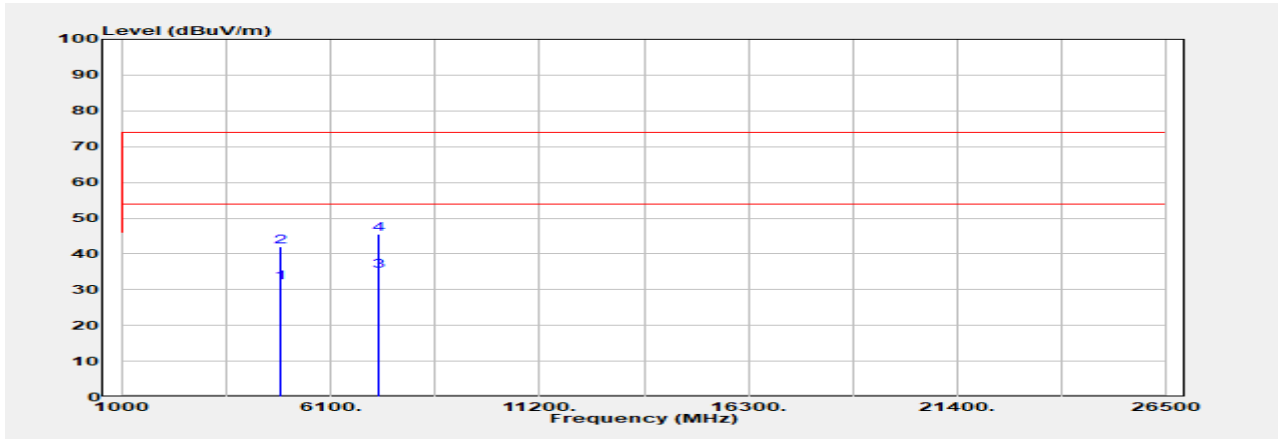
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.000	Average	28.47	3.46	31.93	54.00	-22.07
4924.000	Peak	36.24	3.46	39.71	74.00	-34.29
7386.000	Average	26.89	9.03	35.92	54.00	-18.08
7386.000	Peak	36.70	9.03	45.74	74.00	-28.26

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



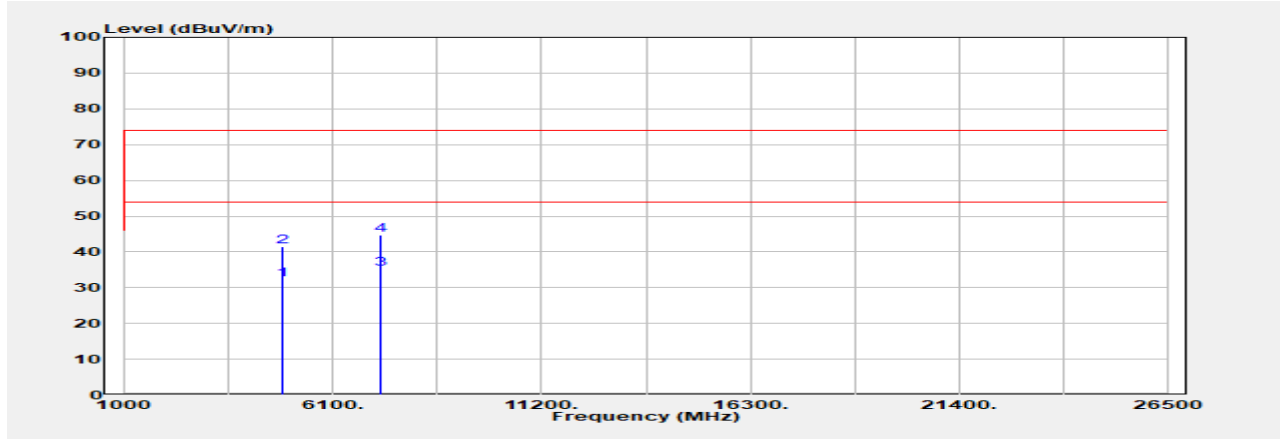
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.000	Average	28.69	3.31	32.01	54.00	-21.99
4844.000	Peak	38.81	3.31	42.12	74.00	-31.88
7266.000	Average	26.81	8.53	35.34	54.00	-18.66
7266.000	Peak	36.91	8.53	45.45	74.00	-28.55

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



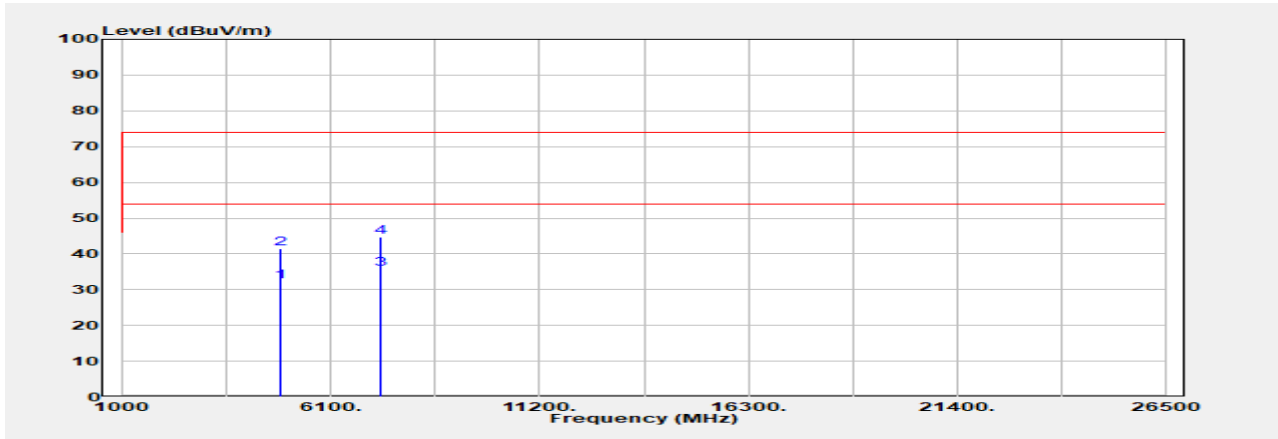
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.000	Average	29.01	3.31	32.32	54.00	-21.68
4844.000	Peak	38.26	3.31	41.57	74.00	-32.43
7266.000	Average	26.67	8.53	35.20	54.00	-18.80
7266.000	Peak	36.22	8.53	44.76	74.00	-29.24

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



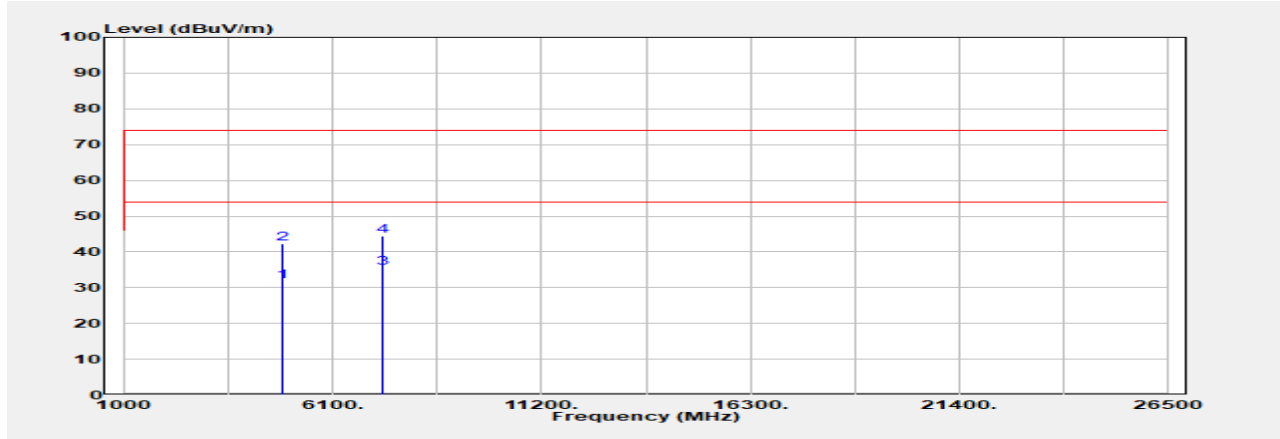
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.93	3.35	32.28	54.00	-21.72
4874.000	Peak	38.17	3.35	41.53	74.00	-32.47
7311.000	Average	27.10	8.58	35.68	54.00	-18.32
7311.000	Peak	36.23	8.58	44.80	74.00	-29.20

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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.000	Average	28.46	3.35	31.81	54.00	-22.19
4874.000	Peak	38.96	3.35	42.32	74.00	-31.68
7311.000	Average	26.88	8.58	35.46	54.00	-18.54
7311.000	Peak	35.80	8.58	44.38	74.00	-29.62

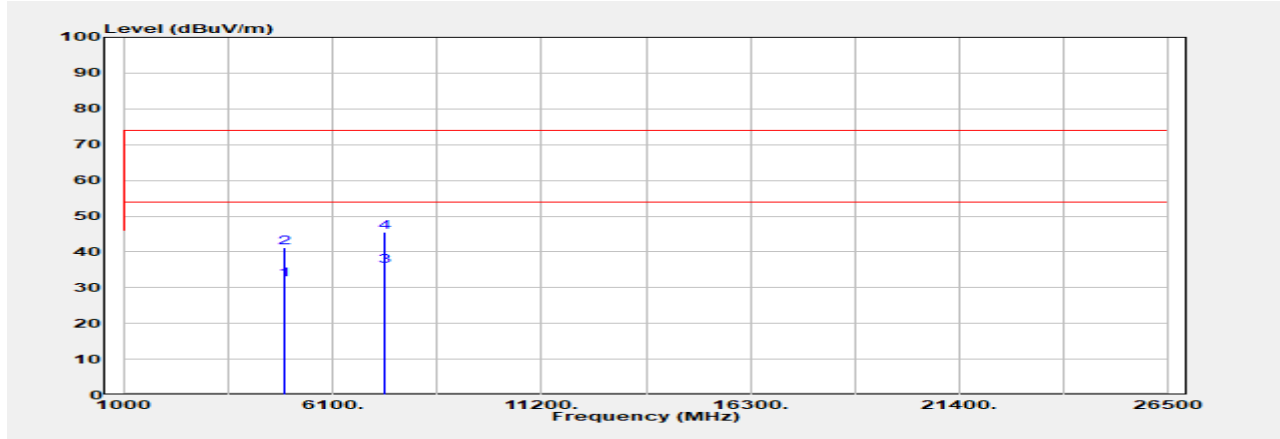
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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.000	Average	28.81	3.40	32.21	54.00	-21.79
4904.000	Peak	37.87	3.40	41.27	74.00	-32.73
7356.000	Average	27.12	8.88	36.00	54.00	-18.00
7356.000	Peak	36.59	8.88	45.47	74.00	-28.53

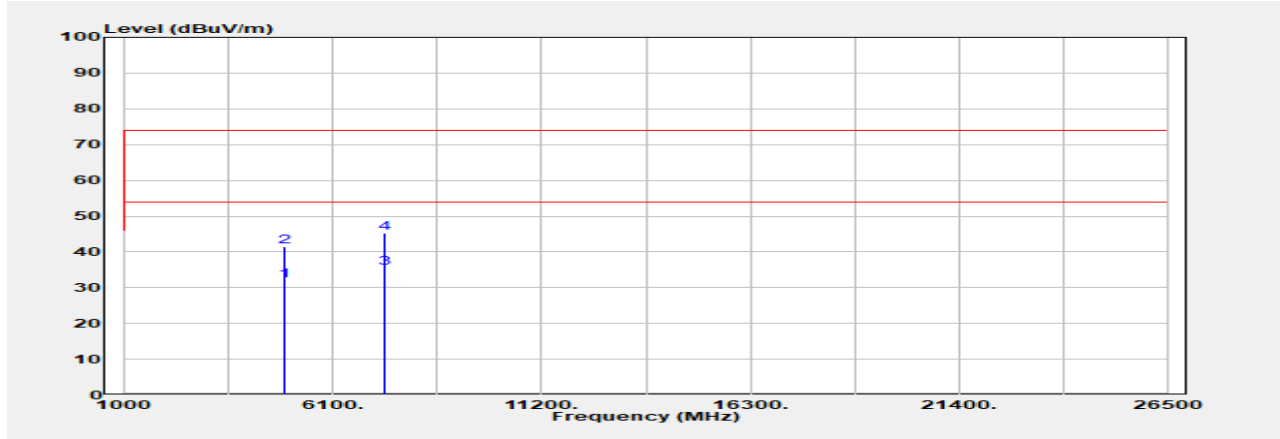
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Report Number :TERF2309002386E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.000	Average	28.55	3.40	31.95	54.00	-22.05
4904.000	Peak	38.00	3.40	41.40	74.00	-32.60
7356.000	Average	26.74	8.88	35.62	54.00	-18.38
7356.000	Peak	36.50	8.88	45.38	74.00	-28.62

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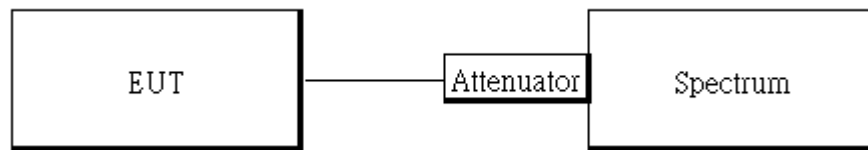
11 POWER SPECTRAL DENSITY

11.1 Standard Applicable

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

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

11.2 Test Setup



11.3 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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11.4 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.44	-7.44	8.00	PASS
2437	-7.28	-7.28	8.00	PASS
2462	-7.98	-7.98	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.20	-11.20	8.00	PASS
2437	-11.54	-11.54	8.00	PASS
2462	-11.77	-11.77	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-13.06	-13.06	8.00	PASS
2437	-12.52	-12.52	8.00	PASS
2462	-12.98	-12.98	8.00	PASS

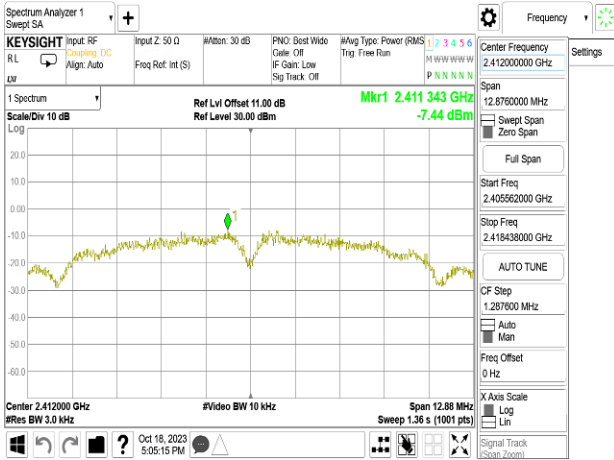
POWER DENSITY 802.11n HT40				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-16.49	-16.49	8.00	PASS
2437	-16.10	-16.10	8.00	PASS
2452	-17.41	-17.41	8.00	PASS

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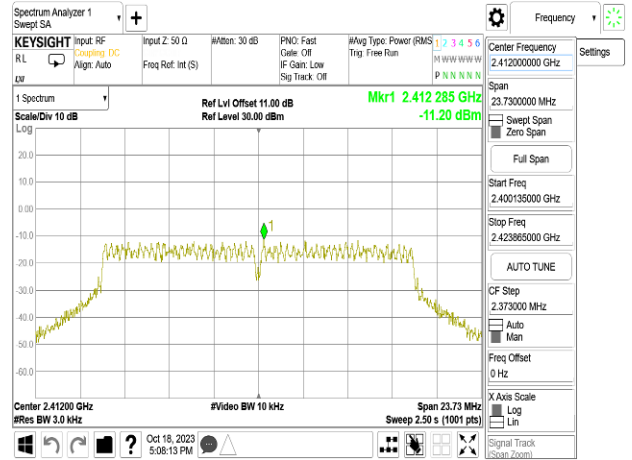
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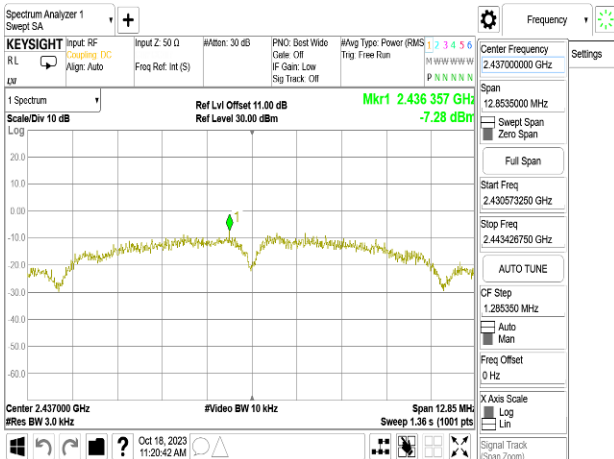
802.11b_20MHz_Chain0_2412MHz



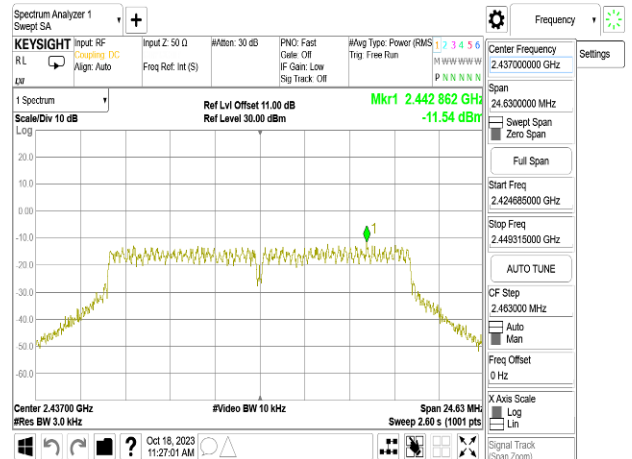
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



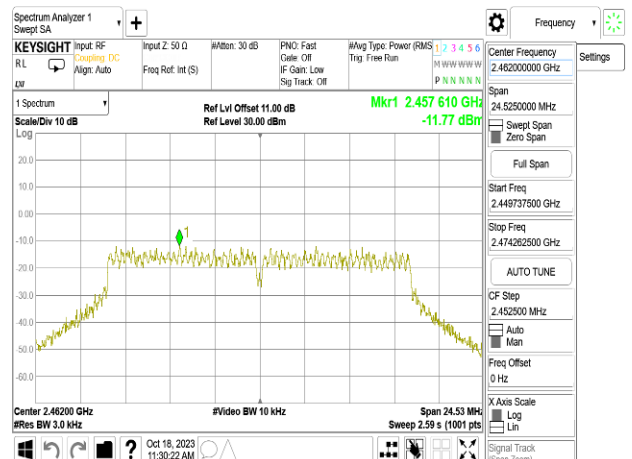
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

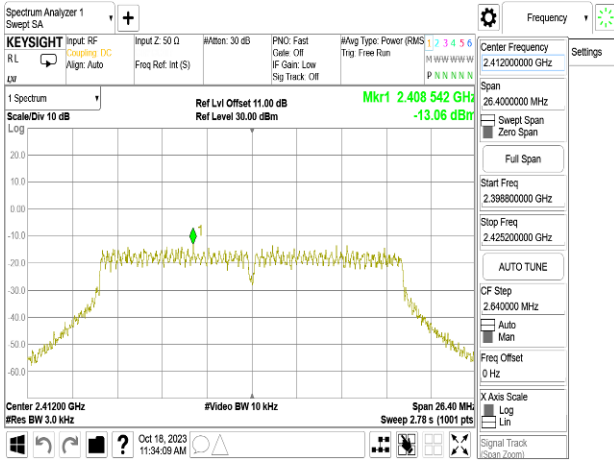


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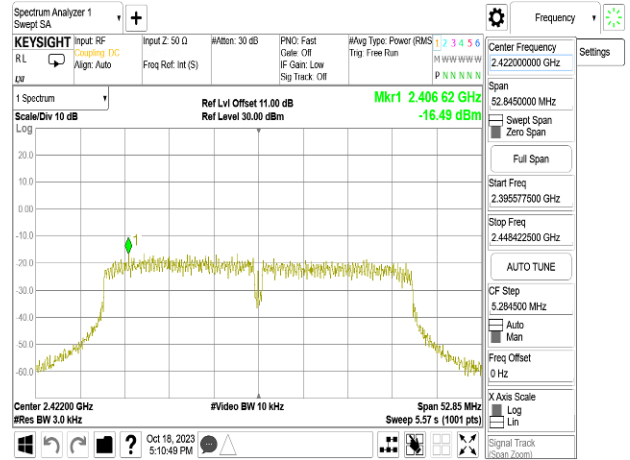
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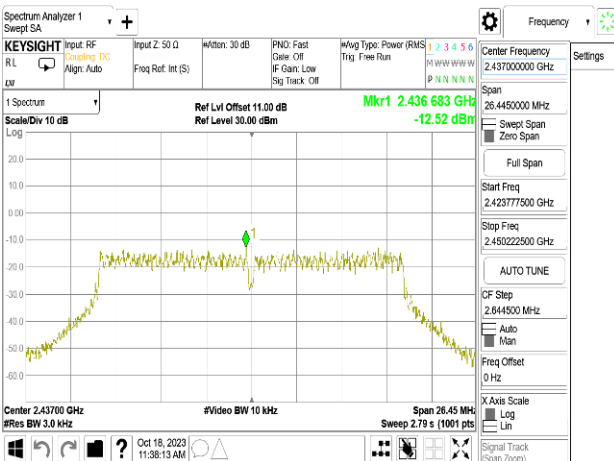
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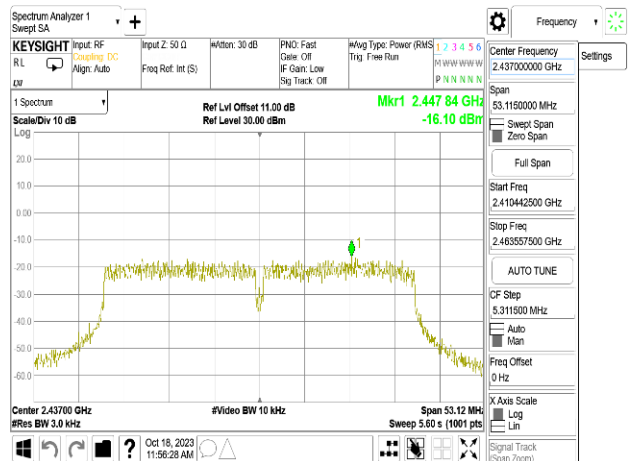
802.11n_40MHz_Chain0_2422MHz



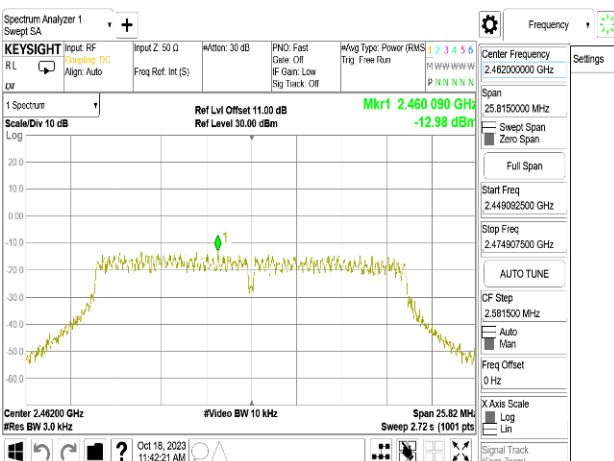
802.11n_20MHz_Chain0_2437MHz



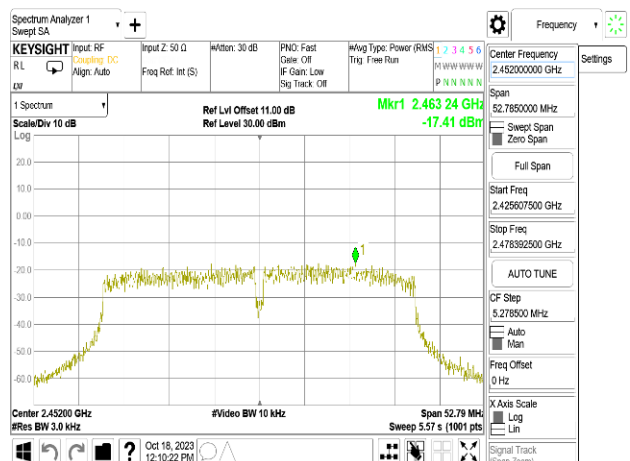
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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12 ANTENNA REQUIREMENT

12.1 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.

12.2 Antenna Connected Construction:

The antenna with unique and non-standard connector that complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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