

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** Silex Technology, Inc.  
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Ja-  
pan

**Manufacturer:** Silex Technology, Inc.  
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Ja-  
pan

**Product Name:** Embedded wireless module

**Brand Name:** Silex Technology

**Model No.:** SX-PCEAX

**Report Number:** TERF2304001050ER

**FCC ID** N6C-PCEAX

**IC:** 4908A-PCEAX

**Date of EUT Received:** April 26, 2023

**Date of Test:** April 27, 2023~September 25, 2023

**Issue Date:** November 23, 2023

Approved By \_\_\_\_\_

**Jim Chang**

## 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 §15.407, ISSED 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
TERF2304001050ER	00	Original	November 09, 2023	Yami Kuo	
TERF2304001050ER	01	Revise the Firm-ware Version	November 23, 2023	Yami Kuo	*

**Note:**

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

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## 1 GENERAL INFORMATION

### 1.1 Product Description

Product Name:	Embedded wireless module
Brand Name:	Silex Technology
Model No.:	SX-PCEAX
Hardware Version:	N/A
Firmware Version:	HY103710
EUT Series No.:	1CBCEC011DAC
Power Supply:	3.3Vdc
Test Software (Name/Version)	QRCT V4.0.210.0

### 1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
802.11 ax_160MHz: up to 2402 Mbps	

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### 1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain(dBi)
Monopole	2J antennas	2JZ74	5150~5250	1.900	4.910
			5250~5350	1.700	4.710
			5470~5725	4.900	7.910
			5725~5850	4.600	7.610
			5850~5895	4.100	7.110
	Taoglas	GW.05.0153	5150~5250	2.460	5.470
			5250~5350	2.482	5.492
			5470~5725	4.267	7.277
			5725~5850	2.440	5.450
			5850~5895	4.043	7.053

**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.
3. As per section F. 2). e). (ii) of FCC KDB 662911 D01  
If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

g<sub>j,k</sub> = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G<sub>k</sub> is the gain in dBi of the kth antenna.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT/ ac_VHT/ ax_HE 20M	5180~5240	4	22.15 dBm	OFDM
	5260~5320	4	22.14 dBm	OFDM
	5500~5720	12	20.45 dBm	OFDM
	5745-5825	5	21.72 dBm	OFDM
	5845-5865	3	16.45 dBm	OFDM
n_HT ac_VHT/ ax_HE 40M	5190~5230	2	20.21 dBm	OFDMA
	5270~5310	2	19.93 dBm	OFDM
	5510~5710	6	19.98 dBm	OFDM
	5755-5795	2	19.98 dBm	OFDM
	5835-5875	2	18.99 dBm	OFDM
ac_VHT/ ax_HE 80M	5210	1	13.88 dBm	OFDM
	5290	1	14.20 dBm	OFDM
	5530~5690	3	18.66 dBm	OFDMA
	5775	1	16.99 dBm	OFDMA
	5855	1	19.47 dBm	OFDM
ac_VHT/ ax_HE 160M	5250	1	9.69 dBm	OFDMA
	5570	1	9.51 dBm	OFDM
	5815	1	14.41 dBm	OFDM

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WLAN 5 GHz for ISED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
a/ n_HT/ ac_VHT/ ax_HE 20M	5180~5240	4	EIRP	18.46	dBm	OFDMA
	5260~5320	4	Avg	22.14	dBm	OFDM
	5500~5700	11	Avg	20.45	dBm	OFDM
	5720 (U-NII 2C)	1	Avg	18.59	dBm	OFDM
	5720 (U-NII 3)	1	Avg	13.60	dBm	OFDMA
	5745-5825	5	Avg	21.72	dBm	OFDM
	5845-5865	3	Avg	16.45	dBm	OFDMA
n_HT ac_VHT/ ax_HE 40M	5190~5230	2	EIRP	21.35	dBm	OFDMA
	5270~5310	2	Avg	19.93	dBm	OFDM
	5510~5670	5	Avg	19.98	dBm	OFDM
	5710 (U-NII 2C)	1	Avg	18.30	dBm	OFDM
	5710 (U-NII 3)	1	Avg	9.53	dBm	OFDMA
	5755-5795	2	Avg	19.98	dBm	OFDM
	5835-5875	2	Avg	18.99	dBm	OFDMA
ac_VHT/ ax_HE 80M	5210	1	EIRP	19.11	dBm	OFDM
	5290	1	Avg	14.20	dBm	OFDM
	5530	2	Avg	12.98	dBm	OFDMA
	5690 (U-NII 2C)	1	Avg	18.66	dBm	OFDMA
	5690 (U-NII 3)	1	Avg	7.27	dBm	OFDMA
	5775	1	Avg	16.99	dBm	OFDMA
	5855	1	Avg	19.47	dBm	OFDMA
ac_VHT/ ax_HE 160M	5250	1	Avg	9.71	dBm	OFDMA
	5570	1	Avg	9.51	dBm	OFDM
	5815	1	Avg	14.41	dBm	OFDM

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### 1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407  
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01  
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
 FCC KDB 291074 D02 EMC Measurement v01  
 RSS-247 issue 3 Aug. 2023  
 RSS-Gen, issue 5 April, 2018  
 ANSI C63.10:2013

### 1.7 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.

### 1.8 Special Accessories

There are no special accessories used while test was conducted.

### 1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Conducted Test (RF)

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

#### 2.3.3 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

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

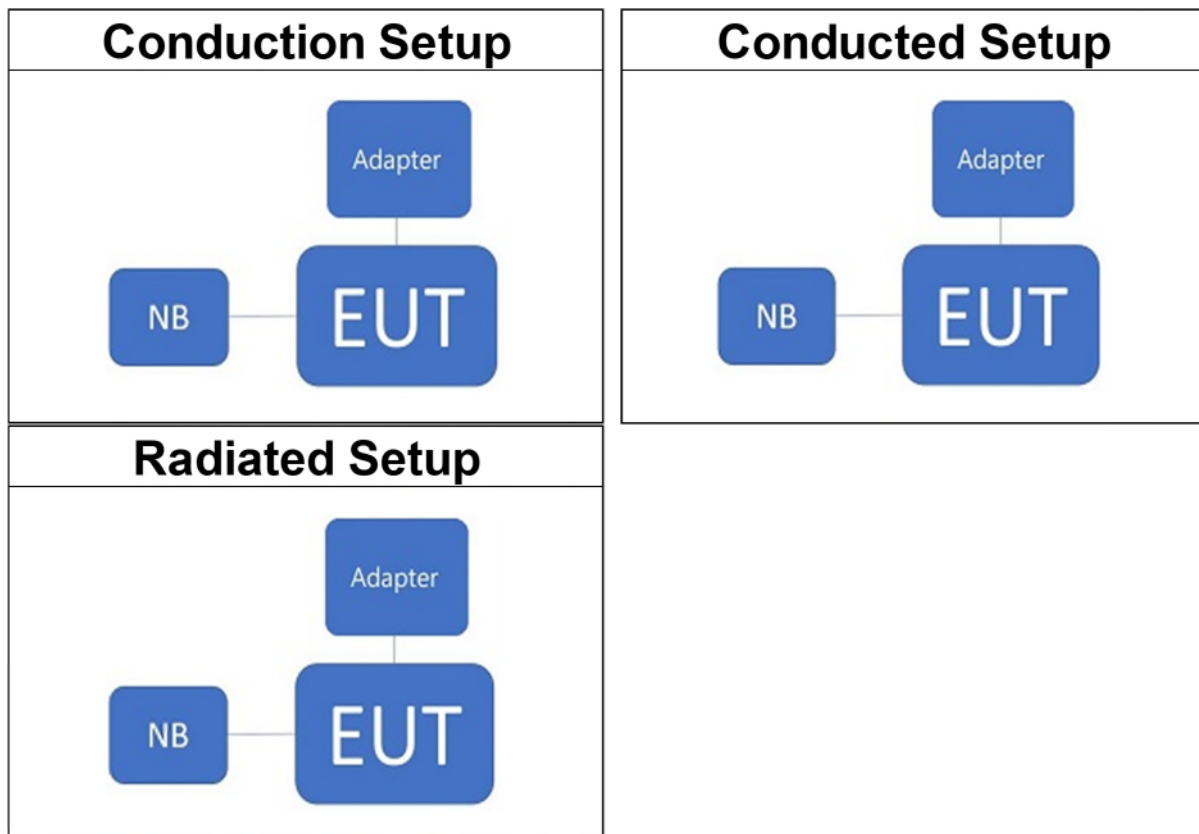
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

### 2.4.2 For all conducted test items:

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

## 2.5 Test Configuration



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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-1D07MD 19/08	N/A	N/A
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T430s	R9-WW5EG 13/0	N/A	N/A
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A
Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1D07MD 19/08	N/A	N/A
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

#### Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

#### Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290	50	5250
56	5280	62	5310				
60	5300						
64	5320						

#### Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530	114	5570
104	5520	110	5550	122	5610		
108	5540	118	5590	138	5690		
112	5560	126	5630				
116	5580	134	5670				
120	5600	142	5710				
124	5620						
128	5640						
132	5660						
136	5680						
140	5700						
144	5720						

#### Operated band in 5725 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

#### Operated band in 5850 MHz ~5895 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
169	5845	167	5835	171	5855	163	5815
173	5865	175	5875				
177	5885						

**Note:**

- 5850~5895 MHz is not available for operation in Canada.

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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 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	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 ax	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX

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.

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**WLAN 5GHz for FCC**

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5865	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5865	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			
	5815	163	163			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5865	169 to 177	169,173,177				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
802.11ax_HE160	5250	50	50	OFDMA	FULL RU 996/67,996/67	MCS0	2TX
	5570	114	114				
	5815	163	163				

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**WLAN 5GHz for ISED**

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX	
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX	
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX	
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX	
CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 484/65,484/66	MCS0	2TX

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**Full Test**

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5260~5320	52 to 64	116	OFDM	6	2TX	
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	2TX	
802.11n_HT20	5500~5720	100 to 144	100,116,140,144	OFDM	MCS0	2TX	
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	2TX	
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	2TX	
802.11ac_VHT160	5570	114	114	OFDM	MCS0	2TX	
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5500~5720	100 to 144	100,116,140,144	OFDMA	FULL RU	MCS0	2TX
802.11ax_HE40	5510~5710	102 to 142	102,110,134,142	OFDMA	FULL RU	MCS0	2TX
802.11ax_HE80	5530~5690	106 to 138	106,122,138	OFDMA	FULL RU	MCS0	2TX
802.11ax_HE160	5570	114	114	OFDMA	FULL RU	MCS0	2TX

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**Spot Check**

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5745~5825	149 to 165	157			
	5845~5885	169 to 177	173			
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5745~5825	149 to 165	149			
	5845~5885	169 to 177	177			
802.11n_HT20	5180~5240	36 to 48	48	OFDM	MCS0	2TX
	5260~5320	52 to 64	60			
	5745~5825	149 to 165	149			
	5845~5885	169 to 177	177			
802.11n_HT40	5190~5230	38 to 46	46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54			
	5755~5795	151 to 159	159			
	5835~5875	167 to 175	175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5775	155	155			
	5855	171	171			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2TX
	5815	163	163			

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	48	OFDMA	FULL RU	MCS0	2TX
	5260~5320	52 to 64	60				
	5745~5825	149 to 165	165				
	5845~5885	169 to 177	173				
802.11ax_HE40	5190~5230	38 to 46	46	OFDMA	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54				
	5755~5795	151 to 159	159				
	5835~5875	167 to 175	175				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU	MCS0	2TX
	5290	58	58				
	5775	155	155				
	5855	171	171				
802.11ax_HE160	5250	50	50	OFDMA	FULL RU	MCS0	2TX
	5815	163	163				

**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
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 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.
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
LISN	SCHWARZBECK	NSLK 8127	1040	08/23/2022	08/22/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024

### 6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/06/2022	10/05/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/16/2023	03/15/2024
Power Sensor	Anritsu	MA2411B	1726104	03/16/2023	03/15/2024
Power Sensor	Anritsu	MA2411B	1726107	03/16/2023	03/15/2024
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

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### 6.3 Radiated Measurement

#### Full Test

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2023	02/23/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/09/2023	03/08/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/20/2022	12/19/2023
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023
Bandreject Filter 5470-5725	Micro-Tronics	BRM50704	1	12/13/2022	12/12/2023
7GHz High Pass Filter	WI	WHKX7.0/18G-8SS	45	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/23/2022	12/22/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/23/2022	12/22/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 1G (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-600	RX Cable below 1G (220237)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 1G (220910)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-10000	RX Cable above 1G (220236)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1000	RX Cable above 1G (201211)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1500	RX Cable above 1G (220906)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable above 1G (220909)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 30M (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 30M (220910)	08/31/2022	08/30/2023

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Spot check

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2023	02/23/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/09/2023	03/08/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/20/2022	12/19/2023
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023
Bandreject Filter 5150-5350	Micro-Tronics	BRM50703	1	12/13/2022	12/12/2023
Bandreject Filter 5725-5875	Micro-Tronics	BRM50705	1	12/13/2022	12/12/2023
7GHz High Pass Filter	WI	WHKX7.0/18G-8SS	45	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/23/2022	12/22/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/23/2022	12/22/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 1G (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-600	RX Cable below 1G (220237)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 1G (220910)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-10000	RX Cable above 1G (220236)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1000	RX Cable above 1G (201211)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1500	RX Cable above 1G (220906)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable above 1G (220909)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 30M (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 30M (220910)	08/31/2022	08/30/2023

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

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz 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

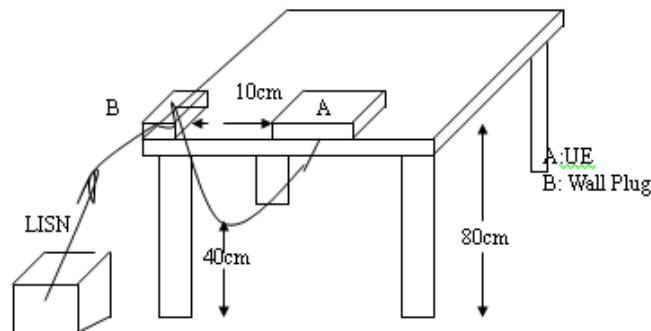
Note

- 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 SET-UP



### 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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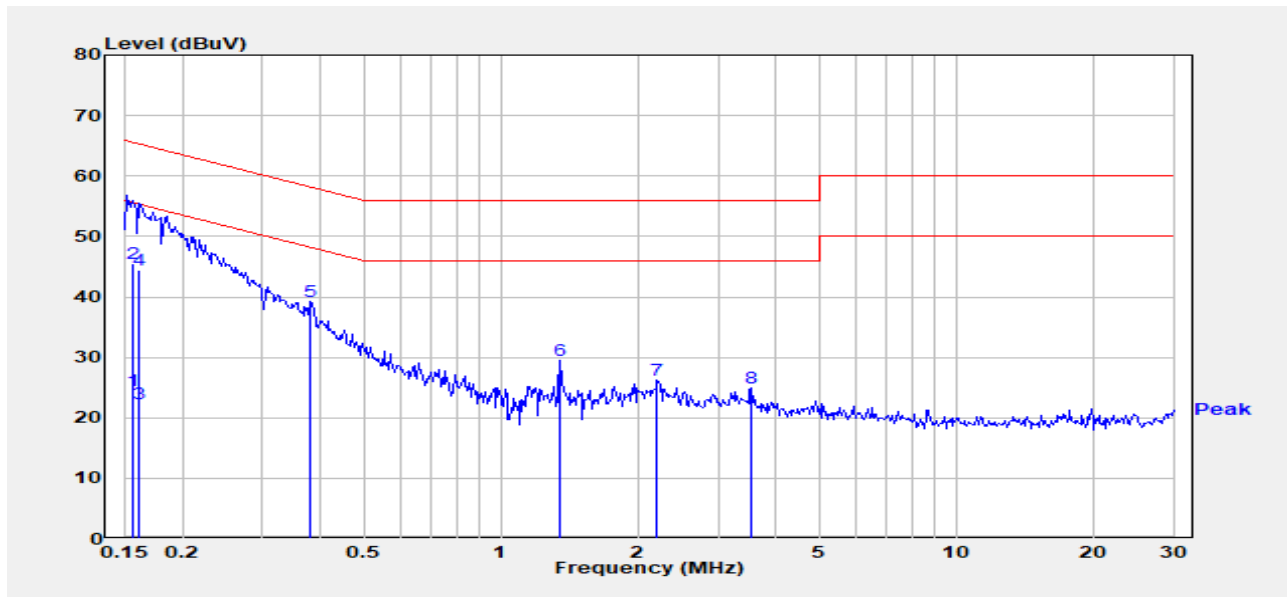
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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2304001050ER  
 Operation Mode :WLAN5G  
 Power :120V/60Hz  
 Probe :L

Test Site :Conduction 1  
 Test Date :2023-06-16  
 Temp./Humi. :24.6°C/65%  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V	Limit dB $\mu$ V	Margin dB
0.156	Average	14.22	10.25	24.47	55.68	-31.21
0.156	QP	35.21	10.25	45.46	65.68	-20.22
0.161	Average	12.11	10.25	22.36	55.43	-33.07
0.161	QP	34.10	10.25	44.35	65.43	-21.08
0.380	Peak	29.07	10.25	39.32	58.28	-18.96
1.349	Peak	18.83	10.67	29.50	56.00	-26.50
2.204	Peak	15.15	11.02	26.17	56.00	-29.83
3.548	Peak	14.13	10.73	24.86	56.00	-31.14

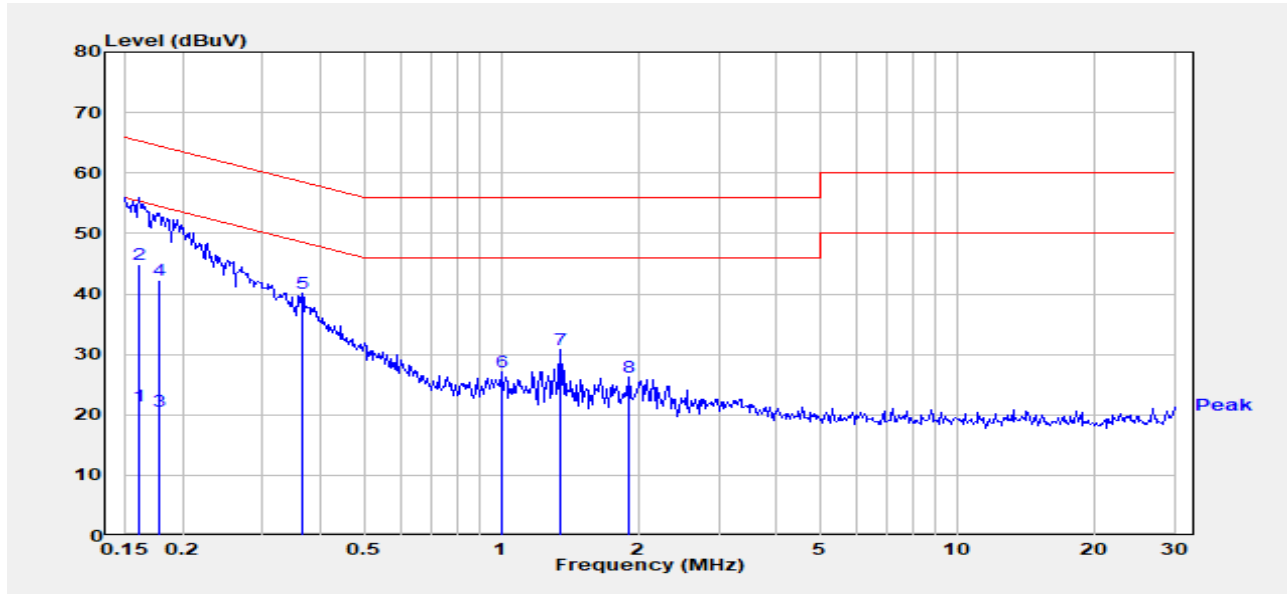
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Report Number :TERF2304001050ER  
 Operation Mode :WLAN5G  
 Power :120V/60Hz  
 Probe :N

Test Site :Conduction 1  
 Test Date :2023-06-16  
 Temp./Humi. :24.6°C/65%  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.161	Average	11.24	10.25	21.49	55.43	-33.94
0.161	QP	34.67	10.25	44.92	65.43	-20.51
0.178	Average	10.43	10.25	20.68	54.60	-33.92
0.178	QP	31.97	10.25	42.22	64.60	-22.38
0.366	Peak	29.95	10.25	40.20	58.60	-18.40
1.000	Peak	16.64	10.36	27.00	56.00	-29.00
1.349	Peak	20.01	10.67	30.68	56.00	-25.32
1.905	Peak	15.20	11.03	26.23	56.00	-29.77

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## 8 MAXIMUM CONDUCTED 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

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

2. For the 10 log B, B is the 26 dB emission bandwidth.

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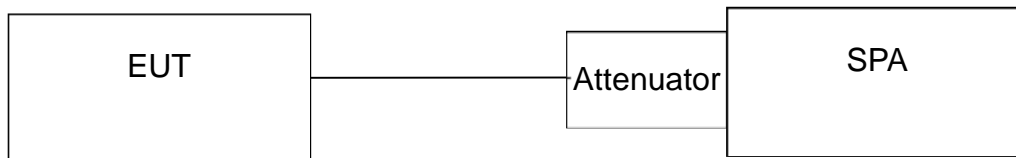
8.1.3 ISED

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10}B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or $10 + 10 \log_{10}B$ dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10}B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	1.0 W or $17 + 10 \log_{10}B$ dBm	250 mW or $11 + 10 \log_{10}B$	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	$-13$ dBW/MHz for $0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$ $-42$ dBW/MHz for $\theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or $17 + 10 \log_{10}B$ dBm	250 mW or $11 + 10 \log_{10}B$	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V	All	N/A	1 W	N/A

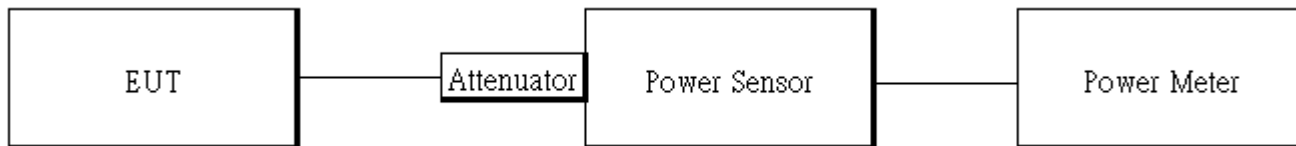
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.  
 2. For the 10 log B, B is the 99% emission bandwidth.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



8.3 Measurement Procedure

8.3.1 Duty Cycle Measurements

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

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### 8.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

**Note:**

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

g<sub>j,k</sub> = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G<sub>k</sub> is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the power limit has been attenuated accordingly.

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## 8.4 Duty Cycle Measurement Result

### WLAN 5GHz for FCC

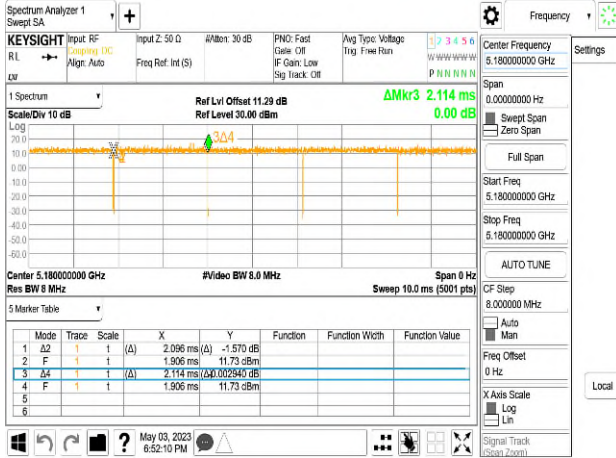
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	99.15	0.04	0.48	0.01
802.11n_20	99.67	0.01	0.18	0.01
802.11ac_20	99.71	0.01	0.18	0.01
802.11n_40	99.71	0.01	0.18	0.01
802.11ac_40	99.71	0.01	0.18	0.01
802.11ac_80	99.71	0.01	0.18	0.01
802.11ac_160	99.36	0.03	0.40	0.01
802.11ax_20	99.71	0.01	0.18	0.01
802.11ax_40	99.71	0.01	0.18	0.01
802.11ax_80	99.71	0.01	0.18	0.01
802.11ax_160	99.71	0.01	0.18	0.01

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802.11a\_20MHz\_Chain0\_5180MHz



802.11ac\_20MHz\_Chain0\_5180MHz



802.11n\_20MHz\_Chain0\_5180MHz



802.11ac\_40MHz\_Chain0\_5190MHz



802.11n\_40MHz\_Chain0\_5190MHz



802.11ac\_80MHz\_Chain0\_5210MHz



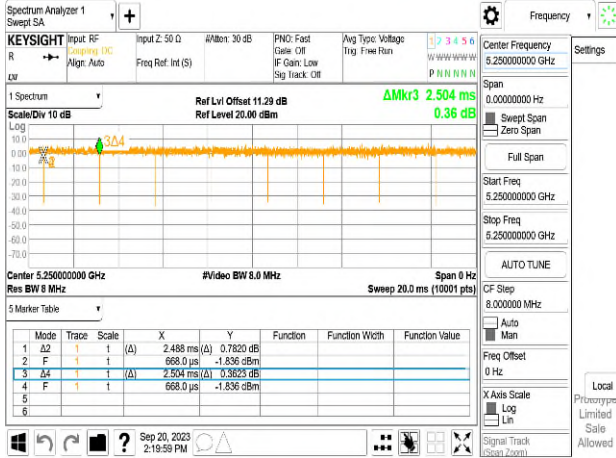
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802.11ac\_160MHz\_Chain0\_5250MHz



802.11ax\_80MHz\_Chain0\_5210MHz



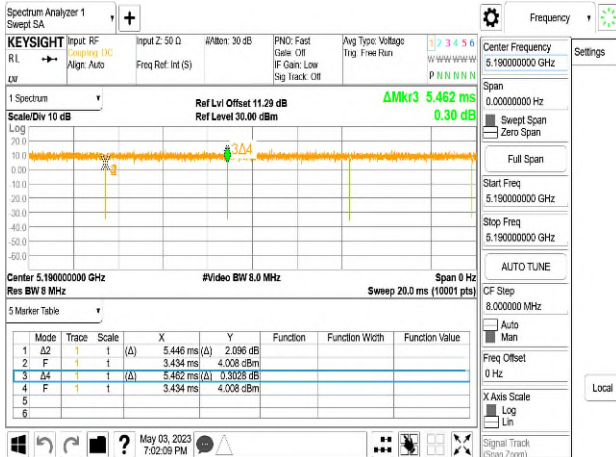
802.11ax\_20MHz\_Chain0\_5180MHz



802.11ax\_160MHz\_Chain0\_5250MHz



802.11ax\_40MHz\_Chain0\_5190MHz



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## WLAN 5GHz for ISED

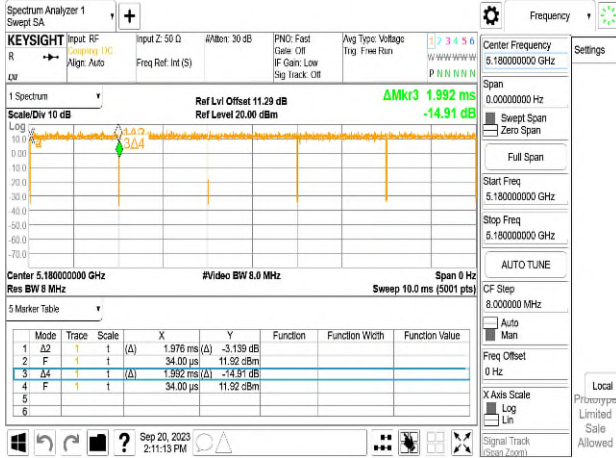
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	99.20	0.03	0.51	0.01
802.11n_20	99.66	0.01	0.19	0.01
802.11ac_20	99.66	0.01	0.19	0.01
802.11n_40	99.70	0.01	0.19	0.01
802.11ac_40	99.70	0.01	0.19	0.01
802.11ac_80	99.65	0.02	0.22	0.01
802.11ax_20	99.70	0.01	0.19	0.01
802.11ax_40	99.71	0.01	0.18	0.01
802.11ax_80	99.57	0.02	0.27	0.01

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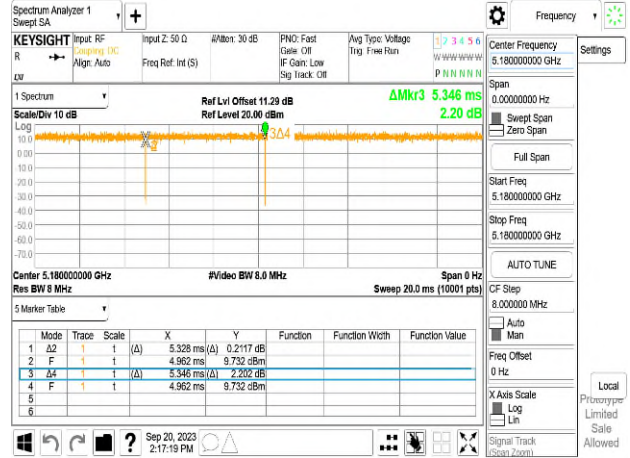
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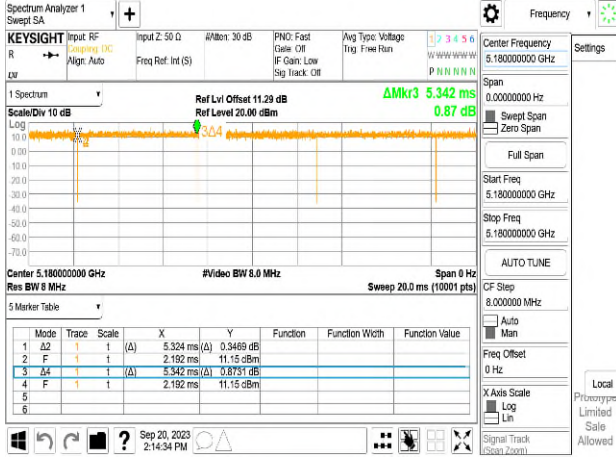
802.11a\_20MHz\_Chain0\_5180MHz



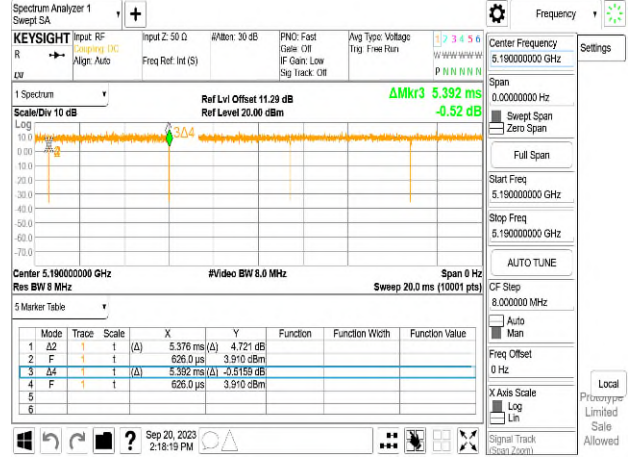
802.11ac\_20MHz\_Chain0\_5180MHz



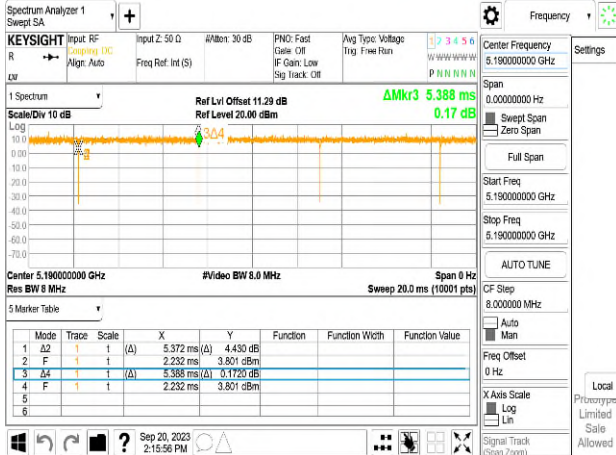
802.11n\_20MHz\_Chain0\_5180MHz



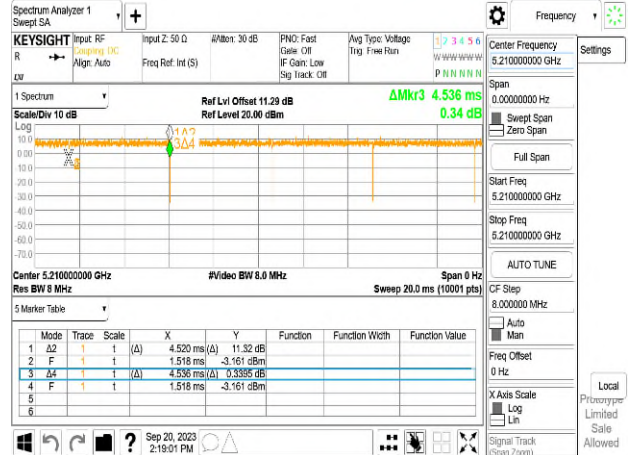
802.11ac\_40MHz\_Chain0\_5190MHz



802.11n\_40MHz\_Chain0\_5190MHz



802.11ac\_80MHz\_Chain0\_5210MHz

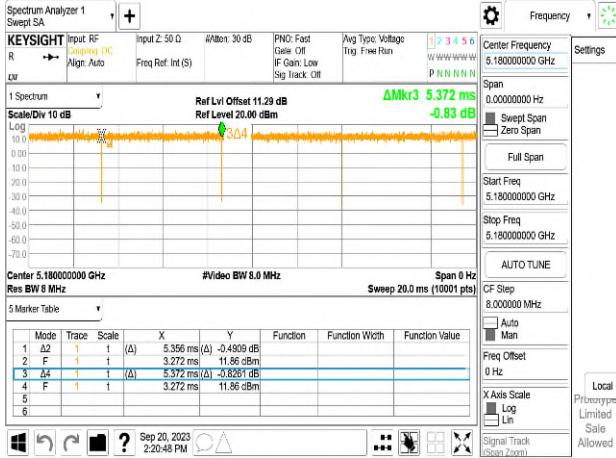


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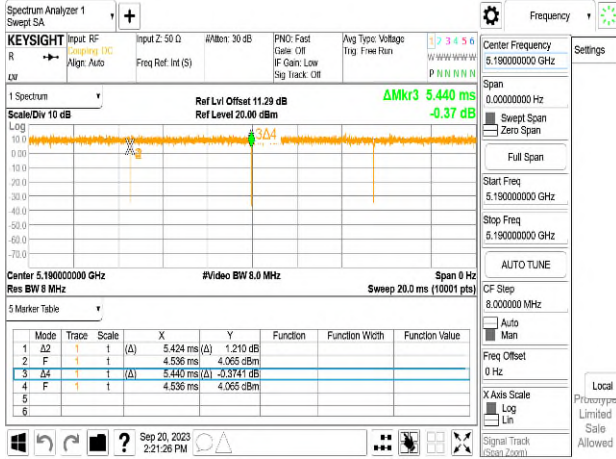
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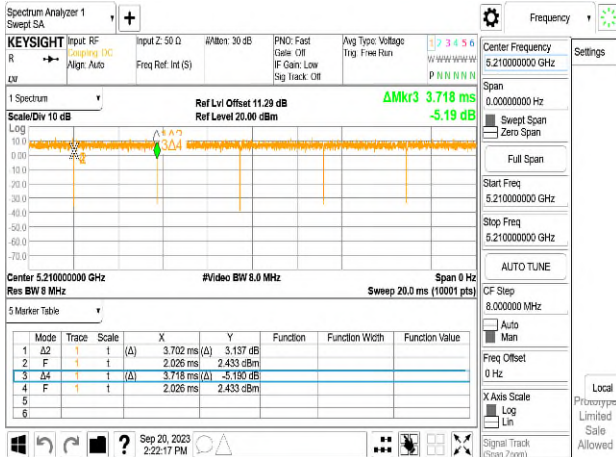
802.11ax\_20MHz\_Chain0\_5180MHz



802.11ax\_40MHz\_Chain0\_5190MHz



802.11ax\_80MHz\_Chain0\_5210MHz



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## 8.5 Output Power Measurement Result

### 8.5.1 FCC Output power

#### 802.11a\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	13.5	13.09	13.88	16.51	44.775	23.98	PASS
44	5220	6	20	19.53	18.72	<b>22.15</b>	164.105	23.98	PASS
48	5240	6	20	19.49	18.46	22.01	158.958	23.98	PASS
52	5260	6	20	19.55	18.68	<b>22.14</b>	163.837	23.98	PASS
60	5300	6	20	19.43	18.55	22.02	159.207	23.98	PASS
64	5320	6	15	14.00	14.58	17.31	53.790	23.98	PASS
100	5500	6	13.5	13.17	13.76	16.48	44.488	22.07	PASS
116	5580	6	17.5	17.76	17.09	<b>20.45</b>	110.797	22.07	PASS
140	5700	6	15	14.65	15.20	17.94	62.245	22.07	PASS
144	5720(U-NII 2C)	6	17	15.34	15.81	18.59	72.346	22.07	PASS
144	5720 (U-NII 3)	6	17	10.10	10.85	13.50	22.403	28.39	PASS
149	5745	6	19	18.93	18.48	<b>21.72</b>	148.532	28.39	PASS
157	5785	6	22.5	18.60	18.66	21.64	145.797	28.39	PASS
165	5825	6	19.5	18.71	18.66	21.69	147.654	28.39	PASS
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
169	5845	6	12.5	12.91	12.21	15.58	22.691	30	PASS
173	5865	6	12.5	13.00	12.33	15.69	22.795	30	PASS
177	5885	6	13.5	12.85	13.65	16.28	23.386	30	PASS

#### 802.11n\_HT20\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	12	11.28	12.29	14.83	30.402	23.98	PASS
44	5220	MCS0	18	17.57	16.72	20.18	104.242	23.98	PASS
48	5240	MCS0	18	17.62	16.87	<b>20.28</b>	106.557	23.98	PASS
52	5260	MCS0	18	17.43	16.72	20.10	102.427	23.98	PASS
60	5300	MCS0	18	17.59	16.84	<b>20.25</b>	105.824	23.98	PASS
64	5320	MCS0	14.5	13.30	13.62	16.48	44.439	23.98	PASS
100	5500	MCS0	13	12.30	13.25	15.82	38.156	22.07	PASS
116	5580	MCS0	17	17.09	16.38	<b>19.76</b>	94.714	22.07	PASS
140	5700	MCS0	12	11.52	12.09	14.83	30.402	22.07	PASS
144	5720(U-NII 2C)	MCS0	17	14.89	15.42	18.18	65.702	22.07	PASS
144	5720 (U-NII 3)	MCS0	17	10.06	10.66	13.38	21.763	28.39	PASS
149	5745	MCS0	18	17.02	17.69	<b>20.38</b>	109.208	28.39	PASS
157	5785	MCS0	18	17.79	16.88	20.37	108.979	28.39	PASS
165	5825	MCS0	18	17.09	17.30	20.21	104.977	28.39	PASS
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
169	5845	MCS0	13.5	13.48	12.95	16.24	23.348	30	PASS
173	5865	MCS0	13.5	13.62	12.90	16.29	23.400	30	PASS
177	5885	MCS0	14	12.96	13.62	16.32	23.427	30	PASS

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802.11n\_HT40\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	10	9.88	10.58	13.26	21.169	23.98	PASS
46	5230	MCS0	17.5	17.47	16.78	20.15	103.552	23.98	PASS
54	5270	MCS0	17.5	17.25	16.55	19.93	98.333	23.98	PASS
62	5310	MCS0	11	10.42	10.73	13.59	22.860	23.98	PASS
102	5510	MCS0	10.5	9.97	10.20	13.10	20.415	22.07	PASS
110	5550	MCS0	17	17.36	16.53	19.98	99.488	22.07	PASS
134	5670	MCS0	15	14.73	14.93	17.84	60.870	22.07	PASS
142	5710(U-NII 2C)	MCS0	16	15.25	15.33	18.30	67.581	22.07	PASS
142	5710(U-NII 3)	MCS0	16	6.58	6.43	9.52	8.943	28.39	PASS
151	5755	MCS0	17	16.35	16.86	19.63	91.736	28.39	PASS
159	5795	MCS0	17.5	16.78	17.14	19.98	99.464	28.39	PASS
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
167	5835	MCS0	16	16.10	15.62	18.88	25.990	30	PASS
175	5875	MCS0	16	15.69	15.72	18.72	25.828	30	PASS

802.11ac\_VHT20\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	12	11.23	12.27	14.79	30.158	23.98	PASS
44	5220	MCS0	18	17.54	16.66	20.14	103.161	23.98	PASS
48	5240	MCS0	18	17.58	16.83	20.23	105.538	23.98	PASS
52	5260	MCS0	18	17.39	16.66	20.05	101.233	23.98	PASS
60	5300	MCS0	18	17.52	16.79	20.18	104.309	23.98	PASS
64	5320	MCS0	14.5	13.22	13.52	16.39	43.506	23.98	PASS
100	5500	MCS0	13	12.20	13.22	15.75	37.608	22.07	PASS
116	5580	MCS0	17	17.05	16.35	19.73	93.907	22.07	PASS
140	5700	MCS0	12	11.49	12.03	14.78	30.070	22.07	PASS
144	5720(U-NII 2C)	MCS0	17	14.87	15.25	18.08	64.196	22.07	PASS
144	5720(U-NII 3)	MCS0	17	10.04	10.48	13.28	21.262	28.39	PASS
149	5745	MCS0	18	16.97	17.46	20.23	105.556	28.39	PASS
157	5785	MCS0	18	17.77	16.86	20.35	108.435	28.39	PASS
165	5825	MCS0	18	17.07	17.17	20.13	103.115	28.39	PASS
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
169	5845	MCS0	13.5	13.42	12.91	16.19	23.295	30	PASS
173	5865	MCS0	13.5	13.58	12.84	16.24	23.349	30	PASS
177	5885	MCS0	14	12.87	13.60	16.26	23.373	30	PASS

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## 802.11ac\_VHT40\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	10	9.66	10.26	12.98	19.876	23.98	PASS
46	5230	MCS0	17.5	17.44	16.74	20.12	102.731	23.98	PASS
54	5270	MCS0	17.5	17.22	16.51	19.89	97.553	23.98	PASS
62	5310	MCS0	11	10.37	10.59	13.49	22.358	23.98	PASS
102	5510	MCS0	10	9.83	10.15	13.01	19.980	22.07	PASS
110	5550	MCS0	17	17.31	16.49	19.93	98.452	22.07	PASS
134	5670	MCS0	15	14.72	14.75	17.75	59.538	22.07	PASS
142	5710(U-NII 2C)	MCS0	16	15.24	15.14	18.20	66.044	22.07	PASS
142	5710 (U-NII 3)	MCS0	16	6.57	6.24	9.42	8.745	28.39	PASS
151	5755	MCS0	17	16.24	16.72	19.50	89.116	28.39	PASS
159	5795	MCS0	17.5	16.77	17.07	19.94	98.526	28.39	PASS
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
167	5835	MCS0	16	16.05	15.58	18.83	25.944	30	PASS
175	5875	MCS0	16	15.62	15.70	18.67	25.783	30	PASS

## 802.11ac\_VHT80\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	11	10.54	11.17	13.88	24.431	23.98	PASS
58	5290	MCS0	11.5	10.62	11.68	14.20	26.273	23.98	PASS
106	5530	MCS0	10	9.83	10.10	12.98	19.861	22.07	PASS
122	5610	MCS0	15	14.94	14.87	17.92	61.916	22.07	PASS
138	5690(U-NII 2C)	MCS0	16	15.31	15.48	18.40	69.250	22.07	PASS
138	5690 (U-NII 3)	MCS0	16	3.65	3.75	6.71	4.689	28.39	PASS
155	5775	MCS0	14.5	13.54	14.36	16.98	49.914	28.39	PASS
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
171	5855	MCS0	17	16.38	16.49	19.45	26.558	30	PASS

## 802.11ac\_VHT160\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
50	5250	MCS0	7	6.10	7.12	9.65	9.222	23.98	PASS
114	5570	MCS0	6.5	6.19	6.79	9.51	8.930	22.07	PASS
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
163	5815	MCS0	12	10.81	11.92	14.41	21.519	30.00	PASS

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802.11ax\_HE40\_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	10.5	9.83	10.70	13.30	21.378	23.98	PASS
		MCS0	242/61	10.5	6.05	6.72	9.41	8.731	23.98	PASS
46	5230	MCS0	full	18	17.54	16.82	<b>20.21</b>	104.901	23.98	PASS
		MCS0	242/61	16	15.47	15.97	18.74	74.819	23.98	PASS
54	5270	MCS0	full	17.5	16.95	16.29	<b>19.65</b>	92.160	23.98	PASS
		MCS0	242/61	16	15.33	15.89	18.63	72.978	23.98	PASS
62	5310	MCS0	full	11.5	10.35	10.93	13.66	23.241	23.98	PASS
		MCS0	242/62	8.5	3.13	3.26	6.21	4.177	23.98	PASS
102	5510	MCS0	full	11	10.18	10.75	13.49	22.322	22.07	PASS
		MCS0	242/61	8	3.29	3.35	6.33	4.298	22.07	PASS
110	5550	MCS0	full	17	17.04	16.22	<b>19.66</b>	92.517	22.07	PASS
		MCS0	242/61	12.5	12.74	13.44	16.12	40.898	22.07	PASS
134	5670	MCS0	full	15	14.53	14.56	17.56	56.989	22.07	PASS
		MCS0	242/62	7	2.78	2.20	5.51	3.558	22.07	PASS
142	5710(U-NII 2C)	MCS0	full	16	15.05	15.12	18.10	64.527	22.07	PASS
		MCS0	242/61	14.5	13.81	14.15	<b>17.00</b>	50.067	22.07	PASS
142	5710 (U-NII 3)	MCS0	full	16	6.52	6.52	9.53	8.976	28.39	PASS
		MCS0	242/61	14.5	5.28	5.55	8.43	6.963	28.39	PASS
151	5755	MCS0	full	17.5	16.42	16.98	19.72	93.798	28.39	PASS
		MCS0	242/61	12	7.03	7.44	10.25	10.599	28.39	PASS
159	5795	MCS0	full	17.5	16.46	16.99	<b>19.75</b>	94.319	28.39	PASS
		MCS0	242/62	12.5	7.29	7.33	10.32	10.772	28.39	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
167	5835	MCS0	full	16.5	16.22	15.72	18.99	26.100	30	PASS
		MCS0	242/61	14	13.93	14.01	16.98	24.093	30	PASS
175	5875	MCS0	full	16.5	15.90	15.80	18.86	25.973	30	PASS
		MCS0	242/62	19	14.23	13.69	16.98	24.091	30	PASS

802.11ax\_HE80\_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	11	10.25	10.78	<b>13.54</b>	22.574	23.98	PASS
		MCS0	484/65	7.5	7.46	8.06	10.78	11.976	23.98	PASS
58	5290	MCS0	full	11.5	10.45	11.50	<b>14.02</b>	25.232	23.98	PASS
		MCS0	484/66	10	9.28	10.20	12.78	18.955	23.98	PASS
106	5530	MCS0	full	10	9.64	9.93	12.80	19.056	22.07	PASS
		MCS0	484/65	8	8.31	8.87	11.61	14.494	22.07	PASS
122	5610	MCS0	full	15	14.72	14.57	17.66	58.325	22.07	PASS
		MCS0	484/66	8	8.16	8.52	11.36	13.667	22.07	PASS
138	5690(U-NII 2C)	MCS0	full	16.5	15.59	15.71	<b>18.66</b>	73.518	22.07	PASS
		MCS0	484/66	16.5	15.58	15.69	18.65	73.264	22.07	PASS
138	5690 (U-NII 3)	MCS0	full	16.5	4.14	4.38	7.27	5.339	28.39	PASS
		MCS0	484/66	16.5	4.13	4.36	7.26	5.320	28.39	PASS
155	5775	MCS0	full	14.5	13.48	14.42	<b>16.99</b>	49.984	28.39	PASS
		MCS0	484/65	7.5	7.47	8.52	11.04	12.704	28.39	PASS
MCS0	484/66	7.5	6.98	8.18	10.63	11.572	28.39	PASS		
CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
171	5855	MCS0	full	17	16.38	16.53	<b>19.47</b>	26.579	30	PASS
		MCS0	484/65	16.5	16.39	16.50	19.46	26.568	30	PASS
		MCS0	484/66	17	16.36	16.38	19.38	26.493	30	PASS

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802.11ax\_HE160\_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	7	6.09	7.19	<b>9.69</b>	9.306	23.98	PASS
		MCS0	996/67	5.5	5.28	6.09	8.72	7.442	23.98	PASS
		MCS0	996/S67	5	4.66	5.43	8.07	6.419	23.98	PASS
114	5570	MCS0	full	6	5.85	6.49	<b>9.19</b>	8.307	22.07	PASS
		MCS0	996/67	1	2.11	2.40	5.27	3.365	22.07	PASS
		MCS0	996/S67	1	1.32	1.35	4.35	2.721	22.07	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1							
163	5815	MCS0	full	12	10.62	11.96	<b>14.35</b>	21.464	30	PASS
		MCS0	484/65	10.5	10.51	11.53	14.06	21.173	30	PASS
		MCS0	484/66	12	10.60	11.67	14.18	21.291	30	PASS

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## 8.5.2 ISED Conducted output power and EIRP

### Output power

#### 802.11a\_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	19.55	18.68	<b>22.14</b>	<b>163.837</b>	23.98	PASS
60	5300	19.43	18.55	22.02	159.207	23.98	PASS
64	5320	14.00	14.58	17.31	53.790	23.98	PASS
100	5500	13.17	13.76	16.48	44.488	23.98	PASS
116	5580	17.76	17.09	<b>20.45</b>	<b>110.797</b>	23.98	PASS
140	5700	14.65	15.20	17.94	62.245	23.98	PASS
144	5720(U-NII 2C)	15.34	15.81	18.59	72.346	23.98	PASS
144	5720 (U-NII 3)	10.10	10.85	13.50	22.403	28.39	PASS
149	5745	18.93	18.48	<b>21.72</b>	<b>148.532</b>	28.39	PASS
157	5785	18.60	18.66	21.64	145.797	28.39	PASS
165	5825	18.71	18.66	21.69	147.654	28.39	PASS

#### 802.11n\_HT20\_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	17.43	16.72	20.10	102.427	23.98	PASS
60	5300	17.59	16.84	<b>20.25</b>	<b>105.824</b>	23.98	PASS
64	5320	13.30	13.62	16.48	44.439	23.98	PASS
100	5500	12.30	13.25	15.82	38.156	23.98	PASS
116	5580	17.09	16.38	<b>19.76</b>	<b>94.714</b>	23.98	PASS
140	5700	11.52	12.09	14.83	30.402	23.98	PASS
144	5720(U-NII 2C)	14.89	15.42	18.18	65.702	23.98	PASS
144	5720 (U-NII 3)	10.06	10.66	13.38	21.763	28.39	PASS
149	5745	17.02	17.69	<b>20.38</b>	<b>109.208</b>	28.39	PASS
157	5785	17.79	16.88	20.37	108.979	28.39	PASS
165	5825	17.09	17.30	20.21	104.977	28.39	PASS

#### 802.11n\_HT40\_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	17.25	16.55	<b>19.93</b>	<b>98.333</b>	23.98	PASS
62	5310	10.42	10.73	13.59	22.860	23.98	PASS
102	5510	9.97	10.20	13.10	20.415	23.98	PASS
110	5550	17.36	16.53	<b>19.98</b>	<b>99.488</b>	23.98	PASS
134	5670	14.73	14.93	17.84	60.870	23.98	PASS
142	5710(U-NII 2C)	15.25	15.33	18.30	67.581	23.98	PASS
142	5710 (U-NII 3)	6.58	6.43	9.52	8.943	28.39	PASS
151	5755	16.35	16.86	19.63	91.736	28.39	PASS
159	5795	16.78	17.14	<b>19.98</b>	<b>99.464</b>	28.39	PASS

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CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	17.39	16.66	20.05	101.233	23.98	PASS
60	5300	17.52	16.79	<b>20.18</b>	<b>104.309</b>	23.98	PASS
64	5320	13.22	13.52	16.39	43.506	23.98	PASS
100	5500	12.20	13.22	15.75	37.608	23.98	PASS
116	5580	17.05	16.35	<b>19.73</b>	<b>93.907</b>	23.98	PASS
140	5700	11.49	12.03	14.78	30.070	23.98	PASS
144	5720(U-NII 2C)	14.87	15.25	18.08	64.196	23.98	PASS
144	5720 (U-NII 3)	10.04	10.48	13.28	21.262	28.39	PASS
149	5745	16.97	17.46	20.23	105.556	28.39	PASS
157	5785	17.77	16.86	<b>20.35</b>	<b>108.435</b>	28.39	PASS
165	5825	17.07	17.17	20.13	103.115	28.39	PASS

**802.11ac\_VHT40\_2TX**

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	17.22	16.51	<b>19.89</b>	<b>97.553</b>	23.98	PASS
62	5310	10.37	10.59	13.49	22.358	23.98	PASS
102	5510	9.83	10.15	13.01	19.980	23.98	PASS
110	5550	17.31	16.49	<b>19.93</b>	<b>98.452</b>	23.98	PASS
134	5670	14.72	14.75	17.75	59.538	23.98	PASS
142	5710(U-NII 2C)	15.24	15.14	18.20	66.044	23.98	PASS
142	5710 (U-NII 3)	6.57	6.24	9.42	8.745	28.39	PASS
151	5755	16.24	16.72	19.50	89.116	28.39	PASS
159	5795	16.77	17.07	<b>19.94</b>	<b>98.526</b>	28.39	PASS

**802.11ac\_VHT80\_2TX**

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
58	5290	10.62	11.68	<b>14.20</b>	<b>26.273</b>	23.98	PASS
106	5530	9.83	10.10	12.98	19.861	23.98	PASS
138	5710(U-NII 2C)	15.31	15.48	18.40	69.250	23.98	PASS
138	5690 (U-NII 3)	3.65	3.75	6.71	4.689	28.39	PASS
155	5775	13.54	14.36	<b>16.98</b>	<b>49.914</b>	28.39	PASS

**802.11ac\_VHT160\_2TX**

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
50	5250	6.10	7.12	<b>9.65</b>	<b>9.222</b>	23.98	PASS

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802.11ax\_HE20\_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
52	5260	full	17.53	16.83	20.21	104.882	23.98	PASS
		26/0	11.55	11.80	14.69	29.442	23.98	PASS
		52/37	14.37	14.90	17.66	58.291	23.98	PASS
		106/53	15.65	16.28	18.99	79.238	23.98	PASS
60	5300	full	17.99	16.89	20.49	111.883	23.98	PASS
		26/0	12.30	12.47	15.40	34.664	23.98	PASS
		52/37	14.14	14.84	17.52	56.455	23.98	PASS
		106/53	15.72	16.20	18.98	79.060	23.98	PASS
64	5320	full	13.03	13.48	16.27	42.401	23.98	PASS
		26/8	9.07	9.93	12.53	17.923	23.98	PASS
		52/40	12.17	13.19	15.72	37.349	23.98	PASS
		106/54	12.20	13.04	15.65	36.755	23.98	PASS
100	5500	full	12.50	12.98	15.76	37.666	23.98	PASS
		26/0	9.10	9.54	12.34	17.134	23.98	PASS
		52/37	10.72	11.43	14.10	25.718	23.98	PASS
		106/53	10.05	10.94	13.53	22.546	23.98	PASS
116	5580	full	17.62	16.93	20.30	<b>107.191</b>	23.98	PASS
		26/0	10.63	10.82	13.74	23.653	23.98	PASS
		52/37	12.74	12.95	15.86	38.541	23.98	PASS
		106/53	15.73	16.19	18.98	79.050	23.98	PASS
140	5700	full	11.57	12.12	14.87	30.666	23.98	PASS
		26/8	7.15	8.24	10.74	11.863	23.98	PASS
		52/40	8.13	9.75	12.03	15.951	23.98	PASS
		106/54	7.37	8.42	10.94	12.415	23.98	PASS
144	5720(U-NII 2C)	full	14.98	15.40	18.21	66.191	23.98	PASS
		26/0	11.86	11.95	14.92	31.033	23.98	PASS
		52/37	14.19	14.30	17.26	53.190	23.98	PASS
		106/53	13.24	13.99	16.64	46.175	23.98	PASS
144	5720 (U-NII 3)	full	10.33	10.83	13.60	22.903	28.39	PASS
		26/0	7.21	7.38	10.31	10.734	28.39	PASS
		52/37	9.54	9.73	12.65	18.398	28.39	PASS
		106/53	8.59	9.42	12.04	15.983	28.39	PASS
149	5745	full	17.09	17.59	<b>20.36</b>	108.645	28.39	PASS
		26/0	14.04	14.97	17.54	56.791	28.39	PASS
		52/37	13.47	14.30	16.92	49.178	28.39	PASS
		106/53	14.39	15.52	18.00	63.162	28.39	PASS
157	5785	full	17.74	16.74	20.28	106.700	28.39	PASS
		26/0	16.12	15.53	18.85	76.699	28.39	PASS
		52/37	16.08	15.42	18.78	75.430	28.39	PASS
		106/53	14.57	15.06	17.83	60.741	28.39	PASS
165	5825	full	17.35	17.60	<b>20.49</b>	<b>111.936</b>	28.39	PASS
		26/8	15.59	15.83	<b>18.72</b>	74.552	28.39	PASS
		52/40	14.23	15.22	17.77	59.787	28.39	PASS
		106/54	14.34	15.00	17.70	58.823	28.39	PASS

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## 802.11ax\_HE40\_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
54	5270	full	16.95	16.29	19.65	92.160	23.98	PASS
		242/61	15.33	15.89	18.63	72.978	23.98	PASS
62	5310	full	10.35	10.93	13.66	23.241	23.98	PASS
		242/62	3.13	3.26	6.21	4.177	23.98	PASS
102	5510	full	10.18	10.75	13.49	22.322	23.98	PASS
		242/61	3.29	3.35	6.33	4.298	23.98	PASS
110	5550	full	17.04	16.22	<b>19.66</b>	<b>92.517</b>	23.98	PASS
		242/61	12.74	13.44	16.12	40.898	23.98	PASS
134	5670	full	14.53	14.56	17.56	56.989	23.98	PASS
		242/62	2.78	2.20	5.51	3.558	23.98	PASS
142	5710(U-NII 2C)	full	15.05	15.12	18.10	64.527	23.98	PASS
		242/61	13.81	14.15	17.00	50.067	23.98	PASS
142	5710 (U-NII 3)	full	6.52	6.52	9.53	8.976	28.39	PASS
		242/61	5.28	5.55	8.43	6.963	28.39	PASS
151	5755	full	16.42	16.98	<b>19.72</b>	<b>93.798</b>	28.39	PASS
		242/61	7.03	7.44	10.25	10.599	28.39	PASS
159	5795	full	16.46	16.99	<b>19.75</b>	<b>94.319</b>	28.39	PASS
		242/62	7.29	7.33	10.32	10.772	28.39	PASS

## 802.11ax\_HE80\_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
58	5290	full	10.45	11.50	<b>14.02</b>	<b>25.232</b>	23.98	PASS
		484/66	9.28	10.20	12.78	18.955	23.98	PASS
106	5530	full	9.64	9.93	12.80	19.056	23.98	PASS
		484/65	8.31	8.87	11.61	14.494	23.98	PASS
138	5690(U-NII 2C)	full	8.16	8.52	18.66	<b>73.518</b>	23.98	PASS
		484/66	15.59	15.71	18.65	73.264	23.98	PASS
138	5690 (U-NII 3)	full	4.14	4.38	7.27	5.339	28.39	PASS
		484/66	4.13	4.36	7.26	5.320	28.39	PASS
155	5775	full	13.48	14.42	<b>16.99</b>	49.984	28.39	PASS
		484/65	7.47	8.52	11.04	12.704	28.39	PASS
		484/66	6.98	8.18	10.63	<b>11.572</b>	28.39	PASS

## 802.11ax\_HE160\_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
50	5250	full	6.11	7.21	<b>9.71</b>	<b>9.347</b>	23.98	PASS
		996/67	5.29	5.47	8.39	6.907	23.98	PASS
		996/S67	4.68	5.45	8.09	6.448	23.98	PASS

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**EIRP**
**802.11a\_2TX**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.70	5.470	18.17	65.615	23.01	PASS
44	5220	<b>12.99</b>	5.470	<b>18.46</b>	<b>70.146</b>	23.01	PASS
48	5240	12.98	5.470	18.45	69.984	23.01	PASS
52	5260	<b>22.14</b>	5.492	<b>27.64</b>	<b>580.764</b>	30	PASS
60	5300	22.02	5.492	27.51	563.638	30	PASS
64	5320	17.31	5.492	22.80	190.546	30	PASS
100	5500	16.48	7.910	24.39	274.789	30	PASS
116	5580	<b>20.45</b>	7.910	<b>28.36</b>	<b>685.488</b>	30	PASS
140	5700	<b>17.94</b>	7.910	<b>25.85</b>	<b>384.592</b>	30	PASS

**802.11n\_HT20\_2TX**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.87	5.470	18.34	68.234	23.01	PASS
44	5220	<b>12.99</b>	5.470	<b>18.46</b>	<b>70.146</b>	23.01	PASS
48	5240	12.98	5.470	18.45	69.984	23.01	PASS
52	5260	20.10	5.492	25.60	363.078	30	PASS
60	5300	<b>20.25</b>	5.492	<b>25.74</b>	<b>374.973</b>	30	PASS
64	5320	16.48	5.492	21.97	157.398	30	PASS
100	5500	15.82	7.910	23.73	236.048	30	PASS
116	5580	<b>19.76</b>	7.910	<b>27.67</b>	<b>584.790</b>	30	PASS
140	5700	<b>14.83</b>	7.910	<b>22.74</b>	<b>187.932</b>	30	PASS

**802.11n\_HT40\_2TX**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.99	5.470	18.46	70.146	23.01	PASS
46	5230	<b>15.69</b>	5.470	<b>21.16</b>	<b>130.617</b>	23.01	PASS
54	5270	<b>19.93</b>	5.492	<b>25.42</b>	<b>348.337</b>	30	PASS
62	5310	13.59	5.492	19.08	80.910	30	PASS
102	5510	13.10	7.910	21.01	126.183	30	PASS
110	5550	<b>19.98</b>	7.910	<b>27.89</b>	<b>615.177</b>	30	PASS
134	5670	<b>17.84</b>	7.910	<b>25.75</b>	<b>375.837</b>	30	PASS

**802.11ac\_VHT20\_2TX**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.81	5.470	18.28	67.298	23.01	PASS
44	5220	<b>12.98</b>	5.470	<b>18.45</b>	<b>69.984</b>	23.01	PASS
48	5240	12.96	5.470	18.43	69.663	23.01	PASS
52	5260	20.05	5.492	25.55	358.922	30	PASS
60	5300	<b>20.18</b>	5.492	<b>25.68</b>	<b>369.828</b>	30	PASS
64	5320	16.39	5.492	21.88	154.170	30	PASS
100	5500	15.75	7.910	23.66	232.274	30	PASS
116	5580	<b>19.73</b>	7.910	<b>27.64</b>	<b>580.764</b>	30	PASS
140	5700	<b>14.78</b>	7.910	<b>22.69</b>	<b>185.780</b>	30	PASS

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**802.11ac\_VHT40\_2TX**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.98	5.470	18.45	69.984	23.01	PASS
46	5230	<b>15.65</b>	5.470	<b>21.12</b>	<b>129.420</b>	23.01	PASS
54	5270	<b>19.89</b>	5.492	<b>25.38</b>	<b>345.144</b>	30	PASS
62	5310	13.49	5.492	18.99	79.250	30	PASS
102	5510	13.01	7.910	20.92	123.595	30	PASS
110	5550	<b>19.93</b>	7.910	<b>27.84</b>	<b>608.135</b>	30	PASS
134	5670	17.75	7.910	25.66	368.129	30	PASS

**802.11ac\_VHT80\_2TX**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	13.64	5.470	19.11	81.470	23.01	PASS
58	5290	14.20	5.492	19.69	93.111	30	PASS
106	5530	12.98	7.910	<b>20.89</b>	122.744	30	PASS

**802.11ac\_VHT160\_2TX**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	<b>9.65</b>	5.492	<b>15.14</b>	<b>32.659</b>	23.01	PASS

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802.11ax\_HE20\_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	12.99	5.470	18.46	70.146	23.01	PASS
		26/0	5.71	5.470	11.18	13.122	23.01	PASS
		52/37	8.67	5.470	14.14	25.942	23.01	PASS
		106/53	11.32	5.470	16.79	47.753	23.01	PASS
44	5220	full	12.94	5.470	18.41	69.343	23.01	PASS
		26/0	5.71	5.470	11.18	13.122	23.01	PASS
		52/37	8.53	5.470	14.00	25.119	23.01	PASS
		106/53	10.74	5.470	16.21	41.783	23.01	PASS
48	5240	full	12.80	5.470	18.27	67.143	23.01	PASS
		26/0	5.69	5.470	11.16	13.062	23.01	PASS
		52/37	8.56	5.470	14.03	25.293	23.01	PASS
		106/53	11.19	5.470	16.66	46.345	23.01	PASS
52	5260	full	20.21	5.492	25.70	371.535	30	PASS
		26/0	14.69	5.492	20.18	104.232	30	PASS
		52/37	17.66	5.492	23.15	206.538	30	PASS
		106/53	18.99	5.492	24.48	280.543	30	PASS
60	5300	full	<b>20.49</b>	5.492	25.98	396.278	30	PASS
		26/0	15.40	5.492	20.89	122.744	30	PASS
		52/37	17.52	5.492	23.01	199.986	30	PASS
		106/53	18.98	5.492	24.47	279.898	30	PASS
64	5320	full	16.27	5.492	21.77	150.314	30	PASS
		26/8	12.53	5.492	18.03	63.533	30	PASS
		52/40	15.72	5.492	21.21	132.130	30	PASS
		106/54	15.65	5.492	21.15	130.317	30	PASS
100	5500	full	15.76	7.910	23.67	232.809	30	PASS
		26/0	12.34	7.910	20.25	105.925	30	PASS
		52/37	14.10	7.910	22.01	158.855	30	PASS
		106/53	13.53	7.910	21.44	139.316	30	PASS
116	5580	full	20.30	7.910	<b>28.21</b>	<b>662.217</b>	30	PASS
		26/0	13.74	7.910	21.65	146.218	30	PASS
		52/37	15.86	7.910	23.77	238.232	30	PASS
		106/53	18.98	7.910	26.89	488.652	30	PASS
140	5700	full	14.87	7.910	22.78	189.671	30	PASS
		26/8	10.74	7.910	18.65	73.282	30	PASS
		52/40	12.03	7.910	19.94	98.628	30	PASS
		106/54	10.94	7.910	18.85	76.736	30	PASS

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802.11ax\_HE40\_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	12.75	5.470	18.22	66.374	23.01	PASS
		242/61	9.41	5.470	14.88	30.761	23.01	PASS
46	5230	full	15.88	5.470	21.35	136.458	23.01	PASS
		242/62	9.29	5.470	14.76	29.923	23.01	PASS
54	5270	full	19.65	5.492	25.14	326.588	30	PASS
		242/61	18.63	5.492	24.12	258.226	30	PASS
62	5310	full	13.66	5.492	19.15	82.224	30	PASS
		242/62	6.21	5.492	11.70	14.791	30	PASS
102	5510	full	13.49	7.910	21.40	138.038	30	PASS
		242/61	6.33	7.910	14.24	26.546	30	PASS
110	5550	full	<b>19.66</b>	7.910	<b>27.57</b>	<b>571.479</b>	30	PASS
		242/61	16.12	7.910	24.03	252.930	30	PASS
134	5670	full	17.56	7.910	25.47	352.371	30	PASS
		242/62	5.51	7.910	13.42	21.979	30	PASS

802.11ax\_HE80\_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	13.54	5.470	19.01	79.616	23.01	PASS
		484/65	10.79	5.470	16.26	42.267	23.01	PASS
58	5290	full	<b>14.02</b>	5.492	19.51	89.331	30	PASS
		484/66	12.78	5.492	18.27	67.143	30	PASS
106	5530	full	12.80	7.910	<b>20.71</b>	<b>117.761</b>	30	PASS
		484/65	11.61	7.910	19.52	89.536	30	PASS

802.11ax\_HE160\_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	full	<b>9.71</b>	5.492	15.20	33.113	23.01	PASS
		996/67	8.39	5.492	13.89	24.491	23.01	PASS
		996/S67	8.09	5.492	13.59	22.856	23.01	PASS

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## 9 MAXIMUM POWER SPECTRAL DENSITY

### 9.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Ponit	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required
If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.				

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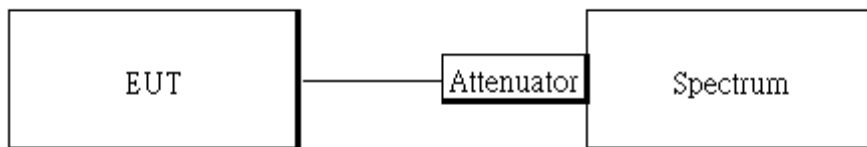
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### 9.2 ISED Standard

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
	V	Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
	V	Other device	N/A	11 dBm/MHz
5470-5600 and 5650-5725	V	All	N/A	11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 9.3 Test Setup



### 9.4 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

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**For U-NII-3 Band:**

Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.

In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.

5. User the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle ≥ 98% : Record the max. reading.  
(2)Duty cycle < 98% : Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

**Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.**

**Note:**

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 \log G_k$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the power limit has been attenuated accordingly.

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## 9.5 Measurement Result

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	3.141	5.47	8.61	10	-1.39
5220	3.429	5.47	8.90	10	-1.10
5240	2.859	5.47	8.33	10	-1.67
EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	2.959	5.47	8.43	10	-1.57
5220	3.112	5.47	8.58	10	-1.42
5240	2.823	5.47	8.29	10	-1.71
EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	0.459	5.47	5.93	10	-4.07
5230	3.022	5.47	8.49	10	-1.51
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-0.958	5.47	4.51	10	-5.49

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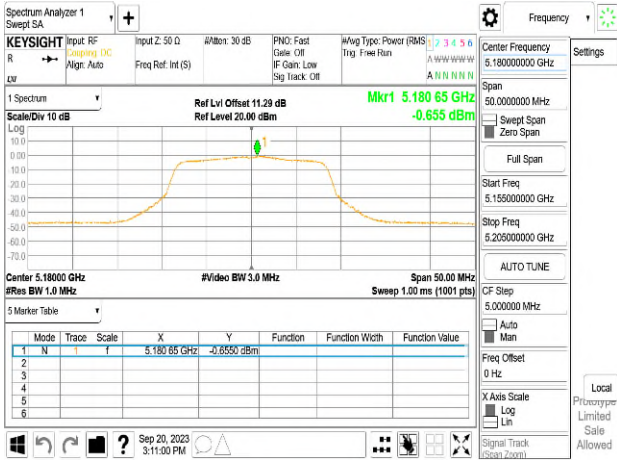
EIRP spectral density 802.11ax HE20 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	full	3.128	5.47	8.60	10	-1.40
	26/0	3.203	5.47	8.67	10	-1.33
	52/37	3.287	5.47	8.76	10	-1.24
	106/53	3.126	5.47	8.60	10	-1.40
5220	full	2.959	5.47	8.43	10	-1.57
5240	full	3.324	5.47	8.79	10	-1.21
EIRP spectral density 802.11ax HE40 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	full	0.747	5.47	6.22	10	-3.78
	242/61	-1.868	5.47	3.60	10	-6.40
5230	full	2.905	5.47	8.38	10	-1.62
EIRP spectral density 802.11ax HE80 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	full	-1.820	5.47	3.65	10	-6.35
	484/65	-3.847	5.47	1.62	10	-8.38

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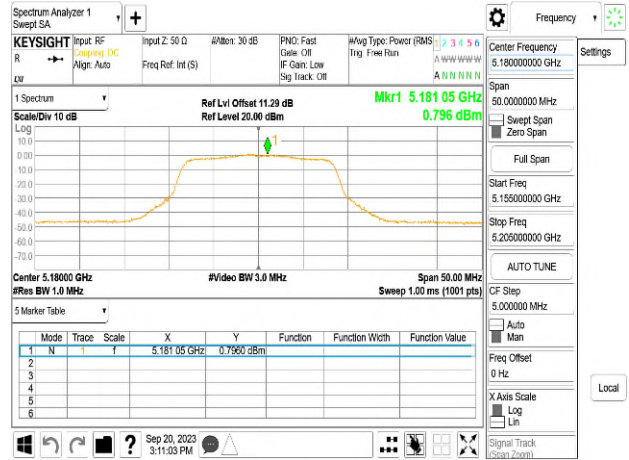
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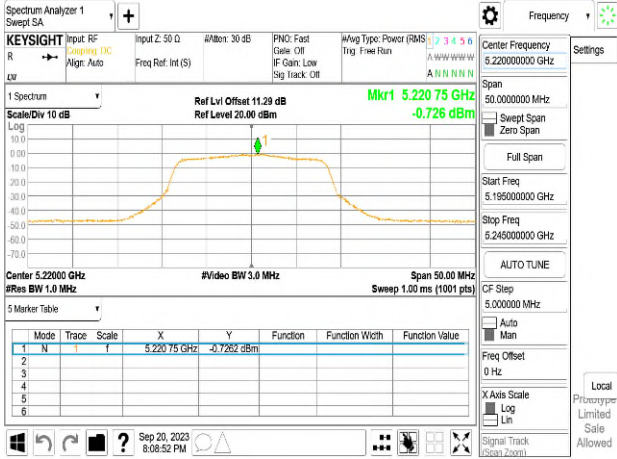
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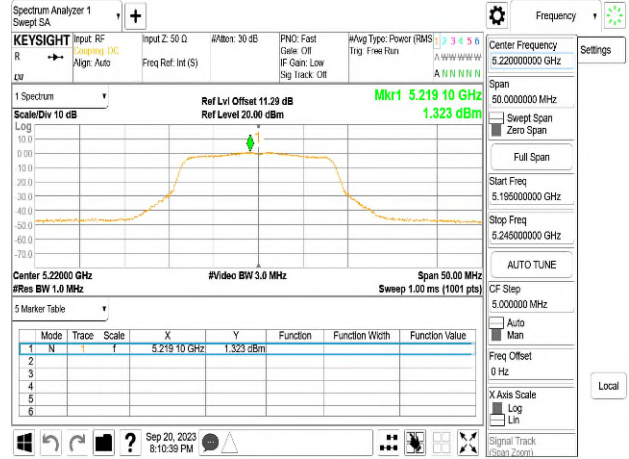
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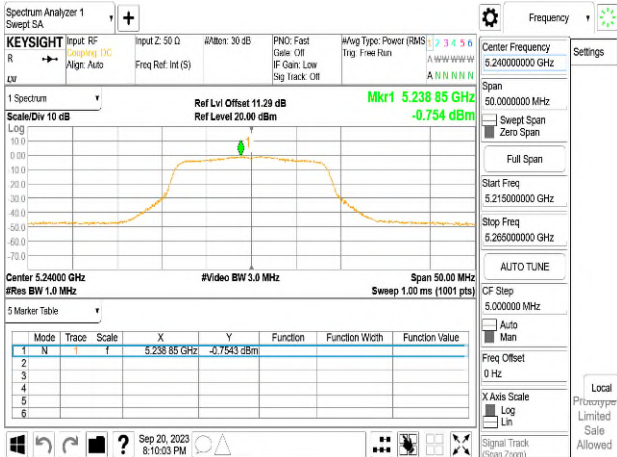
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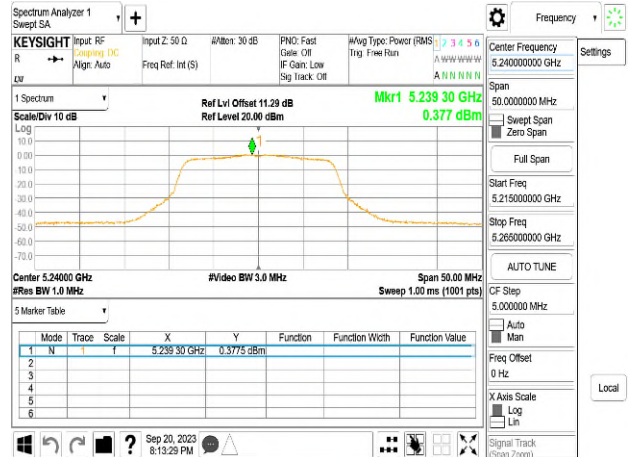
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802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain1\_5240MHz



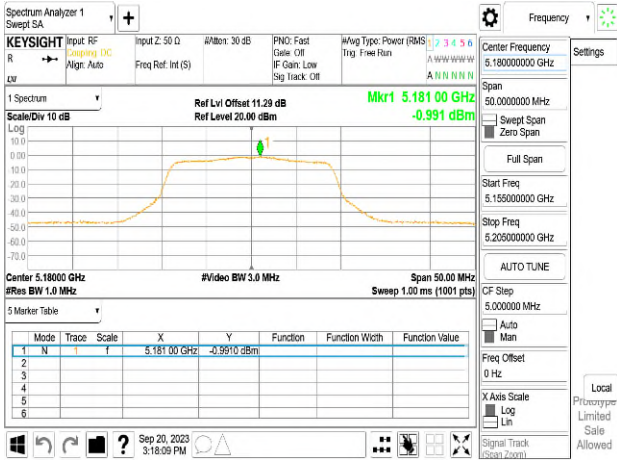
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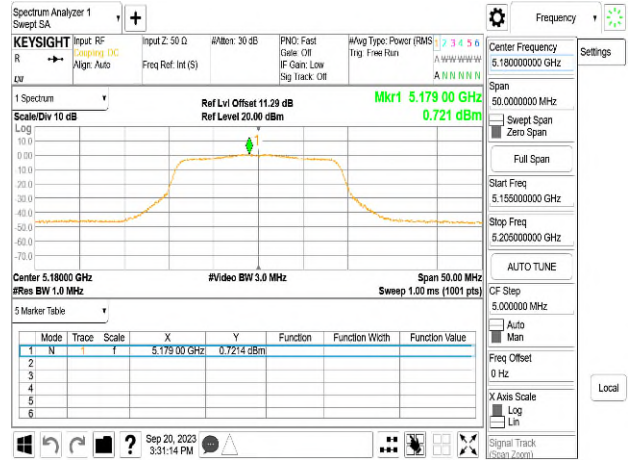
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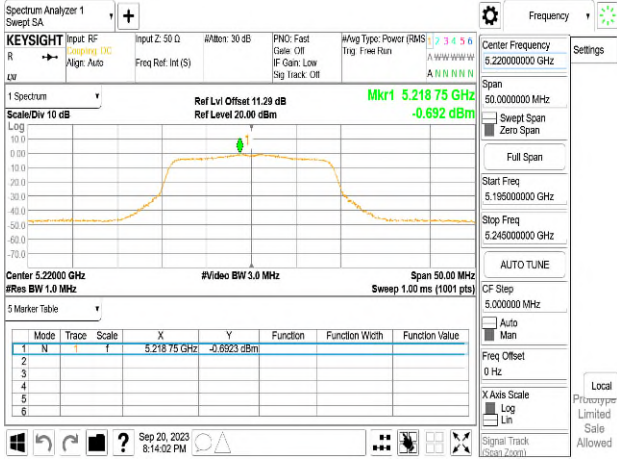
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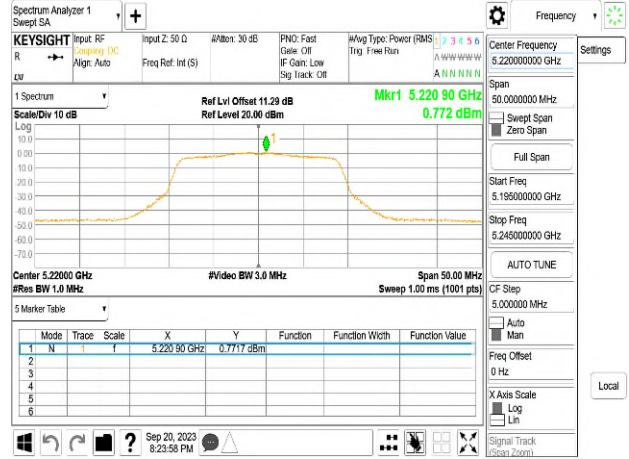
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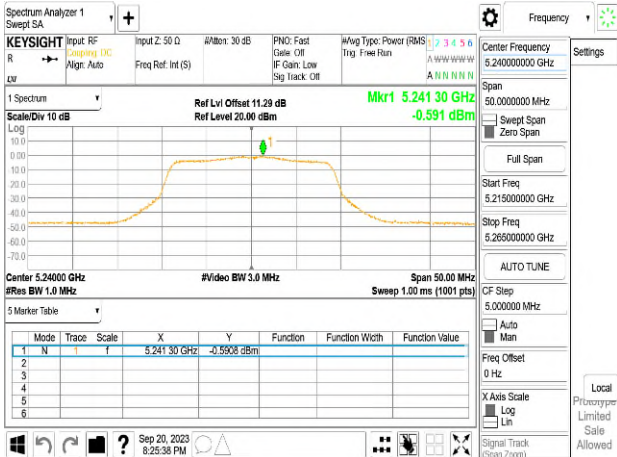
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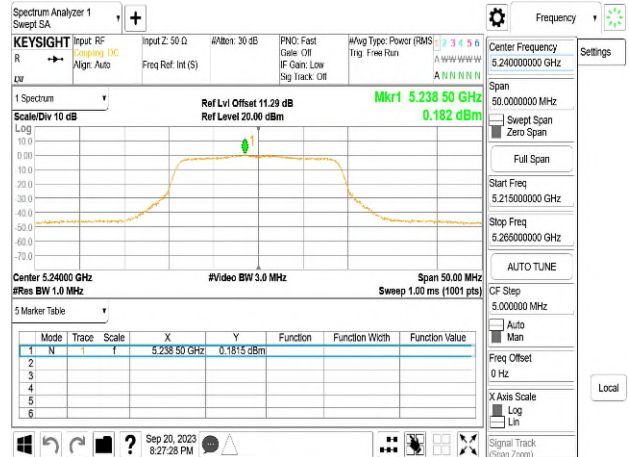
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802.11n\_20MHz\_Chain0\_5240MHz



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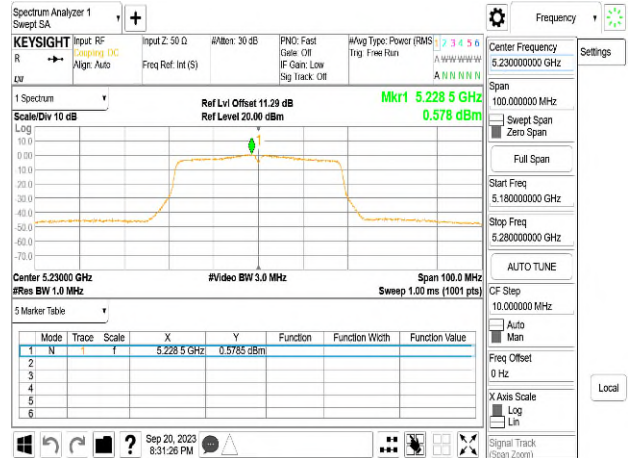
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802.11n\_40MHz\_Chain0\_5190MHz



802.11n\_40MHz\_Chain1\_5230MHz



802.11n\_40MHz\_Chain0\_5230MHz



802.11ac\_80MHz\_Chain0\_5210MHz



802.11n\_40MHz\_Chain1\_5190MHz



802.11ac\_80MHz\_Chain1\_5210MHz

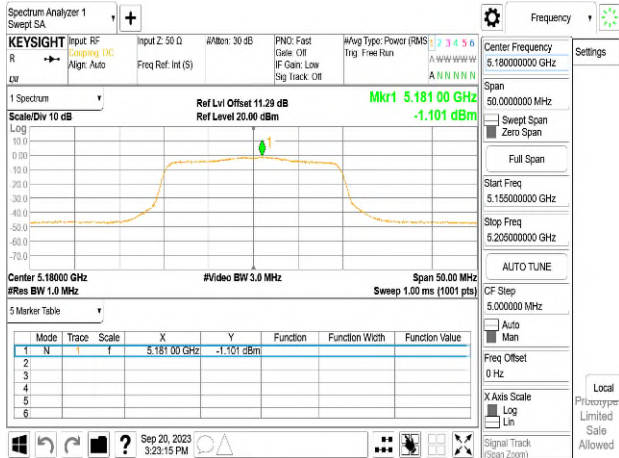


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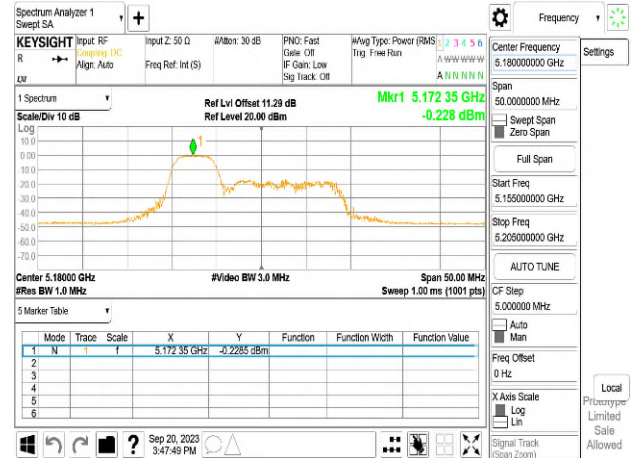
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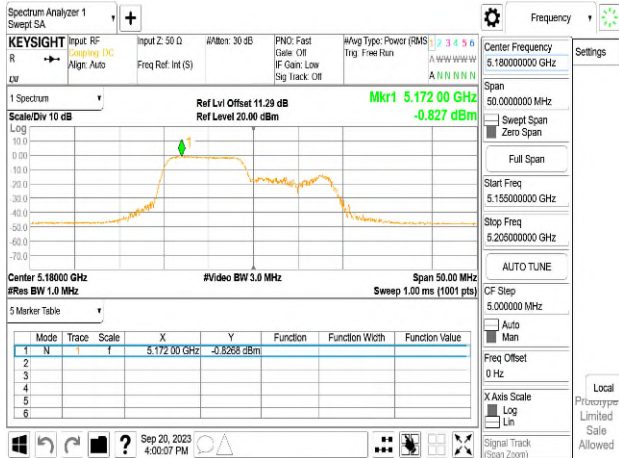
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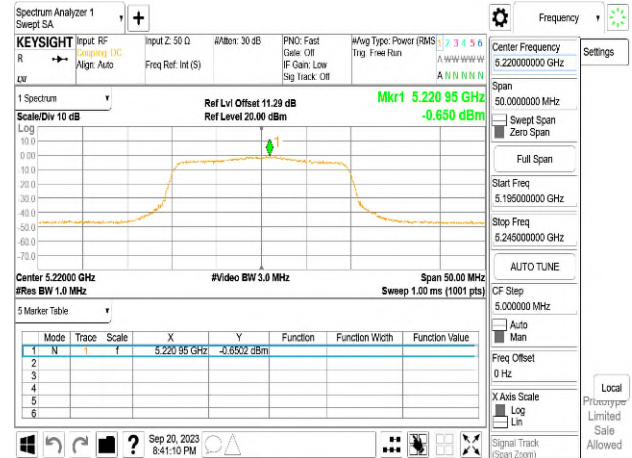
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802.11ax\_20MHz\_Chain0\_5240MHz

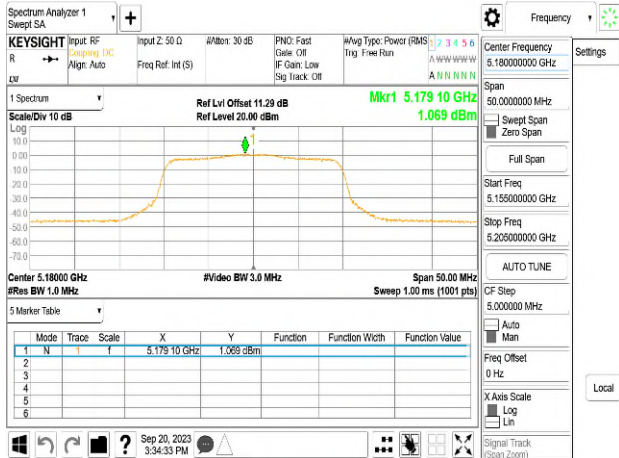


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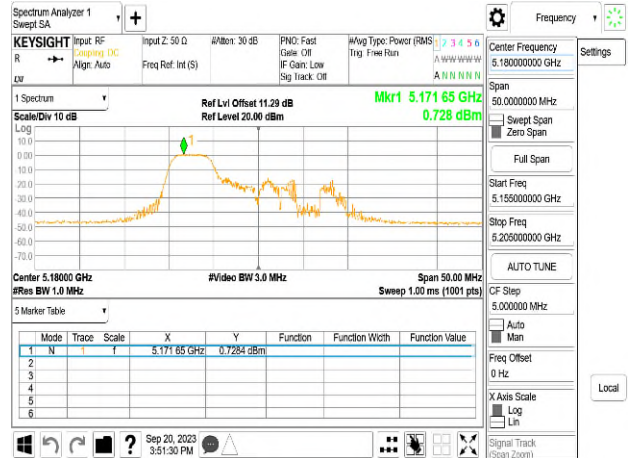
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802.11ax\_20MHz\_Chain1\_5180MHz



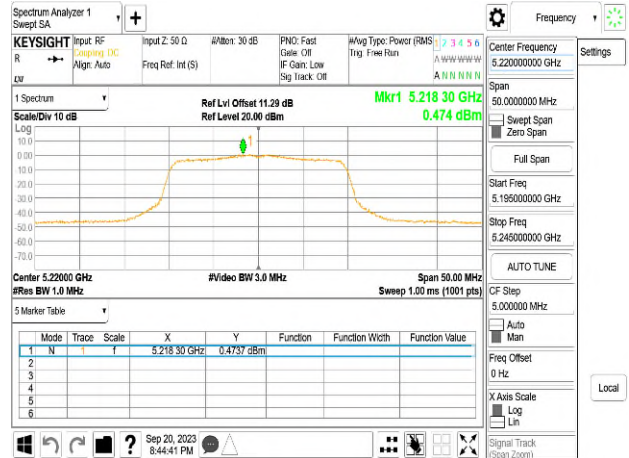
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802.11ax\_20MHz\_Chain1\_5180MHz\_RU106\_53



802.11ax\_20MHz\_Chain1\_5220MHz



802.11ax\_20MHz\_Chain1\_5180MHz\_RU26\_0



802.11ax\_20MHz\_Chain1\_5240MHz



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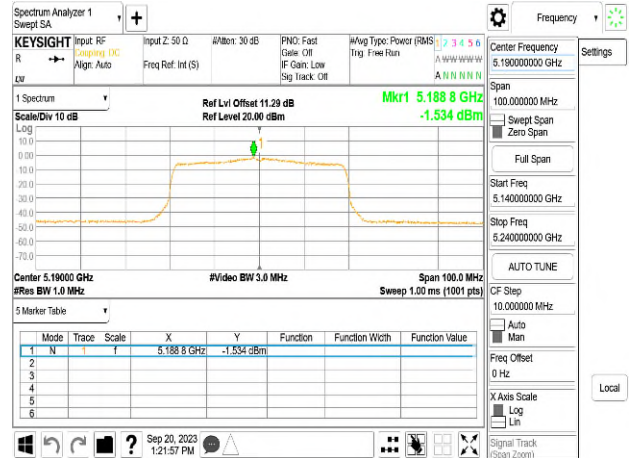
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802.11ax\_40MHz\_Chain0\_5190MHz



802.11ax\_40MHz\_Chain1\_5190MHz



802.11ax\_40MHz\_Chain0\_5190MHz\_RU242\_61



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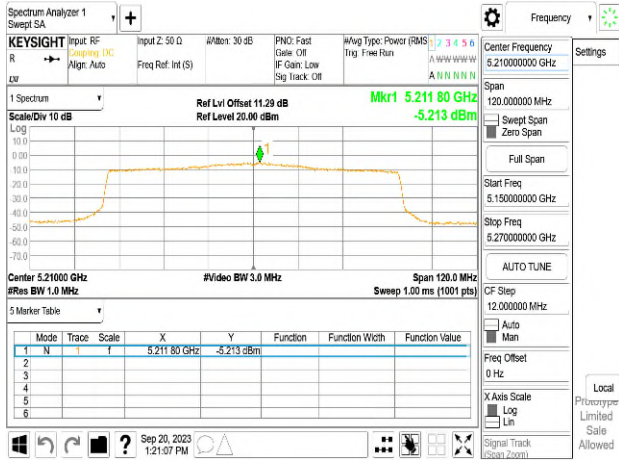


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802.11ax\_80MHz\_Chain0\_5210MHz



802.11ax\_80MHz\_Chain1\_5210MHz\_RU484\_65



802.11ax\_80MHz\_Chain0\_5210MHz\_RU484\_65



802.11ax\_80MHz\_Chain1\_5210MHz



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## 10 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 10.1 Standard Applicable

$EIRP = (E \cdot d)^2 / 30$ , where  $E$  is the field strength in V/m,  $d$  is the measurement distance (3m),  $EIRP$  is the equivalent isotropically radiated power in Watts.

#### 10.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725			
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

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## 10.1.2 5850~5925 MHz

Applicable to	Operation Freq. (MHz)	ETU categories	EIRP		Field Strength @ 3m (dB $\mu$ V/m)
			Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(5)(i)	5850~5895 or channel span cross 5725~5895	indoor AP or subordinate device	decrease linealy from 5895 ~ 5925MHz and above	PK:15~-7	PK:110~102
15.407(b)(5)(ii)		Client device		PK:-5~-27	PK:90~68
15.407(b)(5)(iii)		Client / indoor AP / subordinate device	At 5650	PK:-27	PK:68
	increasing linearly from 5650~5700		PK:-27~10	PK:68~105	
	increasing linearly from 5700~5720		PK:10~15.6	PK:105~110.6	
	increasing linearly from 5720~5725		PK:15.6~27	PK:110.6~122	

## 10.1.3 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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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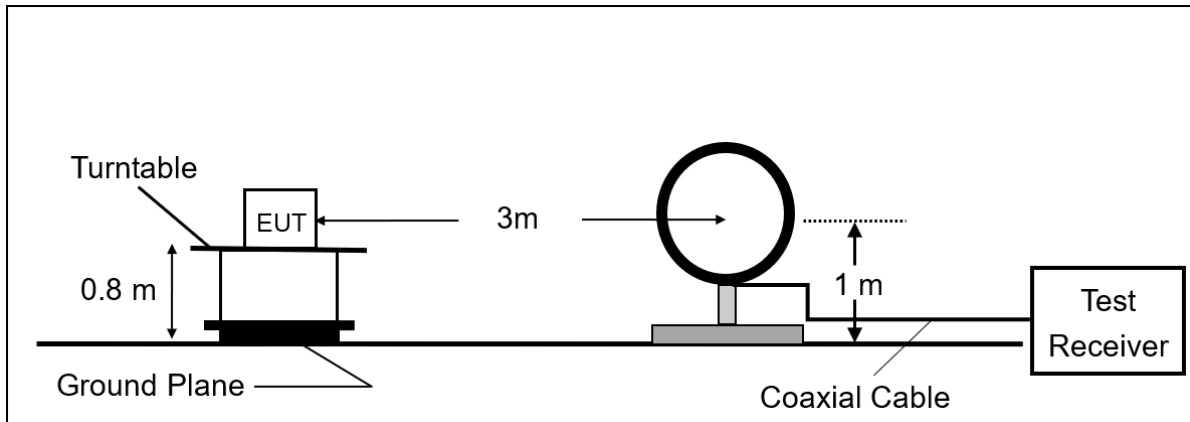
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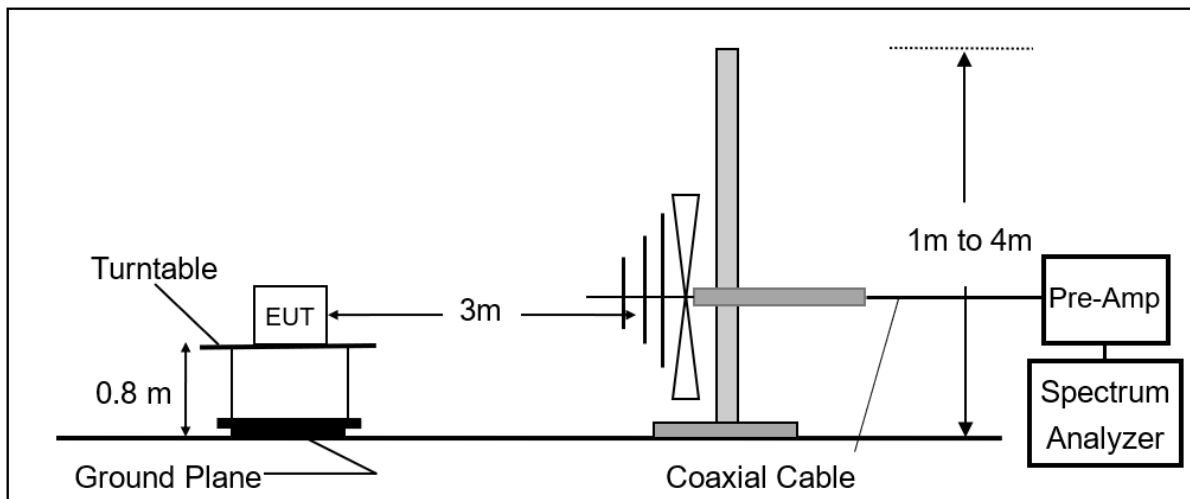


## 10.2 Test Setup

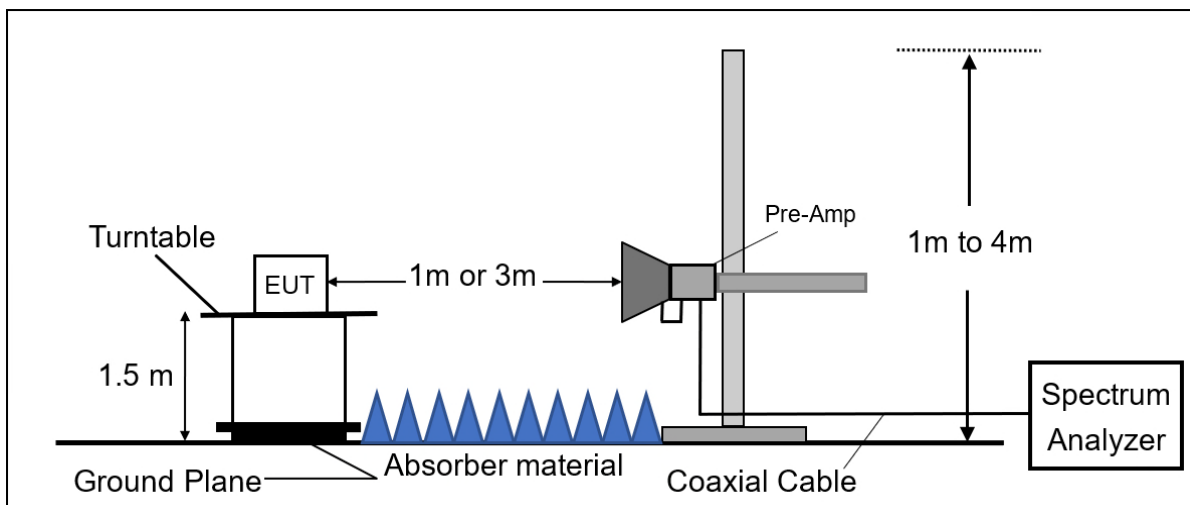
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 FCC KDB 789033 D02.
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 frequency 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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBuV/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.

Pre-scan was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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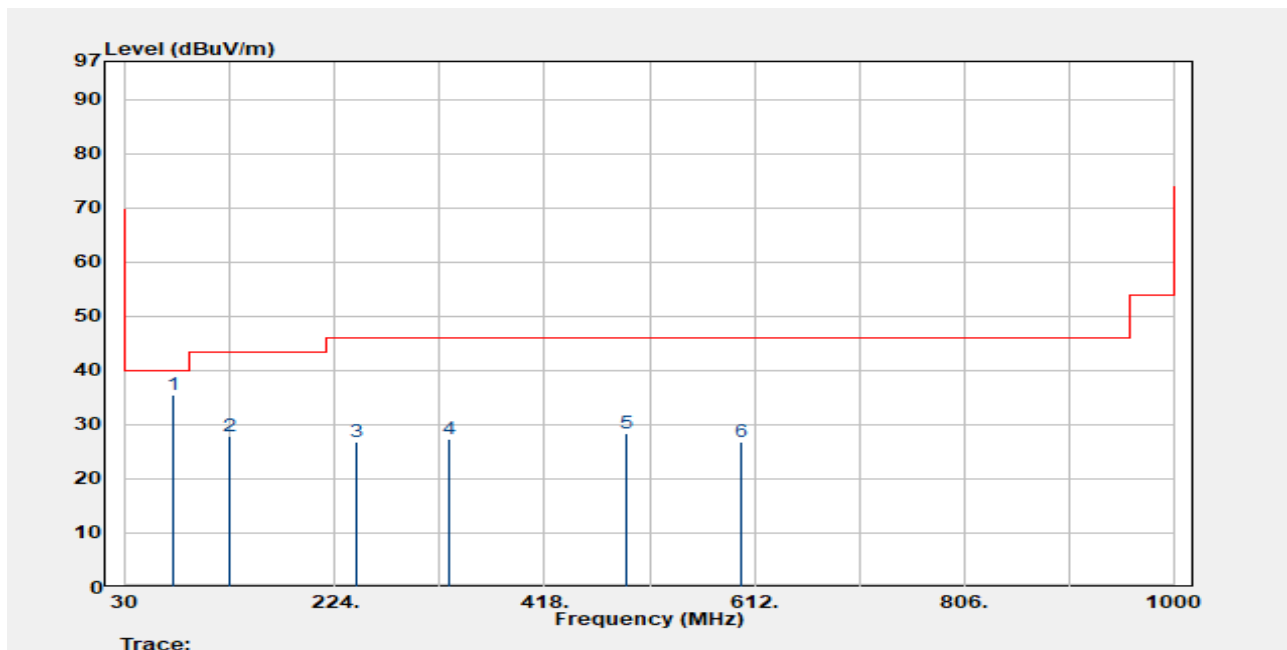
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## 10.6 Radiated Spurious Emission Measurement Result

### 10.6.1 Spurious Emission

#### Full Test

Report Number	:TERF2304001050ER	Test Site	:SAC 2
Operation Mode	:802.11a	Test Date	:2023-08-23
Test Frequency	:5580 MHz	Temp./Humi.	:26.3°C/59%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
74.620	QP	51.23	-15.83	35.40	40.00	-4.60
127.000	Peak	42.64	-14.65	27.99	43.50	-15.51
243.400	Peak	40.58	-13.73	26.85	46.00	-19.15
328.760	Peak	38.72	-11.29	27.43	46.00	-18.57
493.660	Peak	35.90	-7.53	28.38	46.00	-17.62
599.390	Peak	31.38	-4.45	26.93	46.00	-19.07

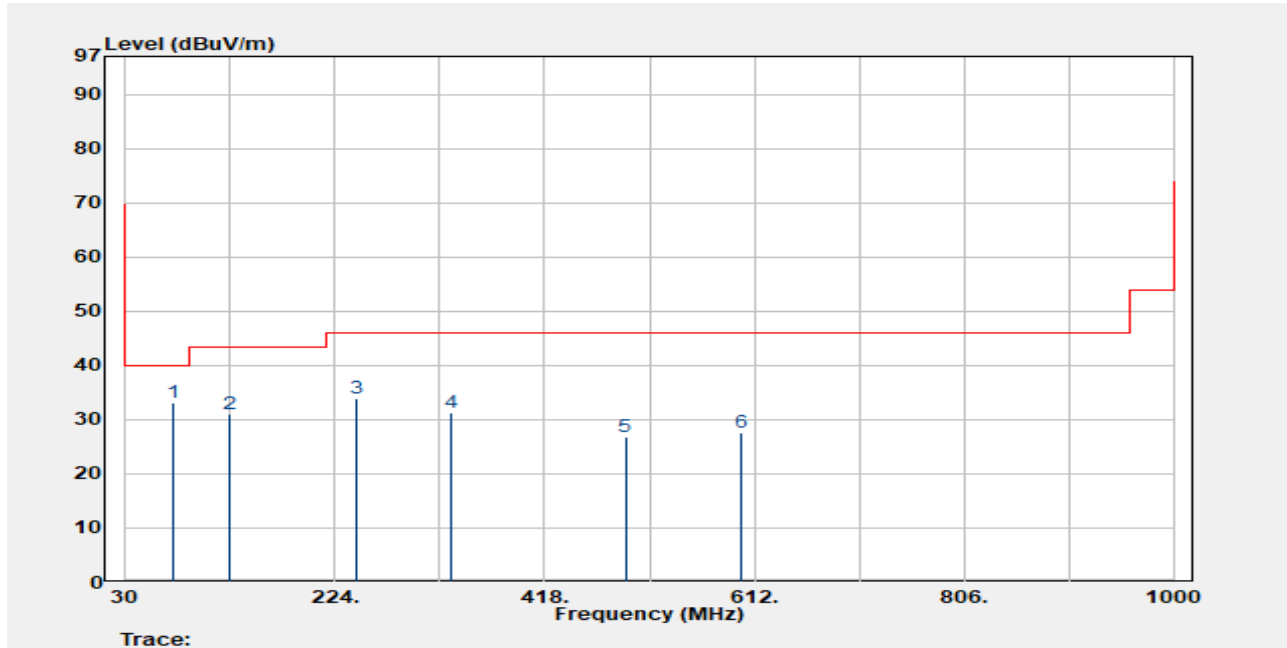
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5580 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
74.620	Peak	49.07	-15.83	33.24	40.00	-6.76
126.030	Peak	45.47	-14.54	30.93	43.50	-12.57
244.370	Peak	47.47	-13.67	33.80	46.00	-12.20
331.670	Peak	42.54	-11.15	31.38	46.00	-14.62
492.690	Peak	34.25	-7.50	26.75	46.00	-19.25
600.360	Peak	31.95	-4.38	27.56	46.00	-18.44

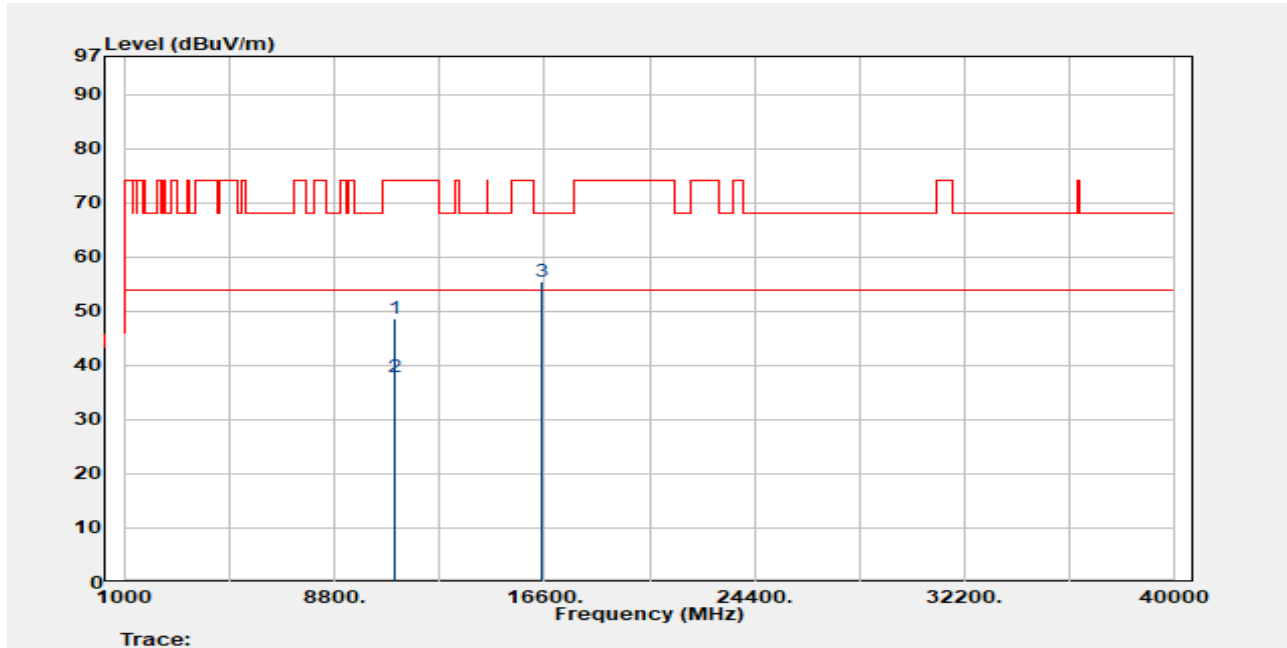
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 Operation Mode :802.11a  
 Test Frequency :5500 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.000	Peak	41.55	7.02	48.57	74.00	-25.43
11000.000	Average	30.83	7.02	37.85	54.00	-16.15
16500.000	Peak	43.80	11.69	55.49	68.20	-12.71

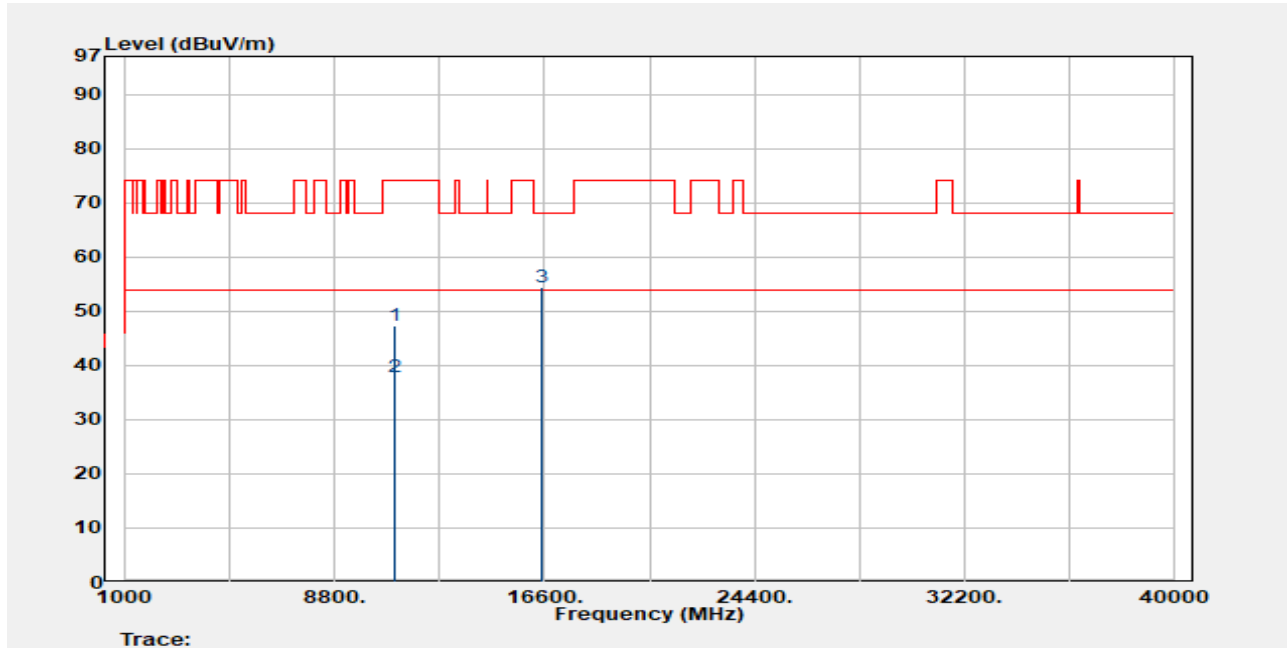
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 Operation Mode :802.11a  
 Test Frequency :5500 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.000	Peak	40.25	7.02	47.27	74.00	-26.73
11000.000	Average	30.87	7.02	37.89	54.00	-16.11
16500.000	Peak	42.65	11.69	54.34	68.20	-13.86

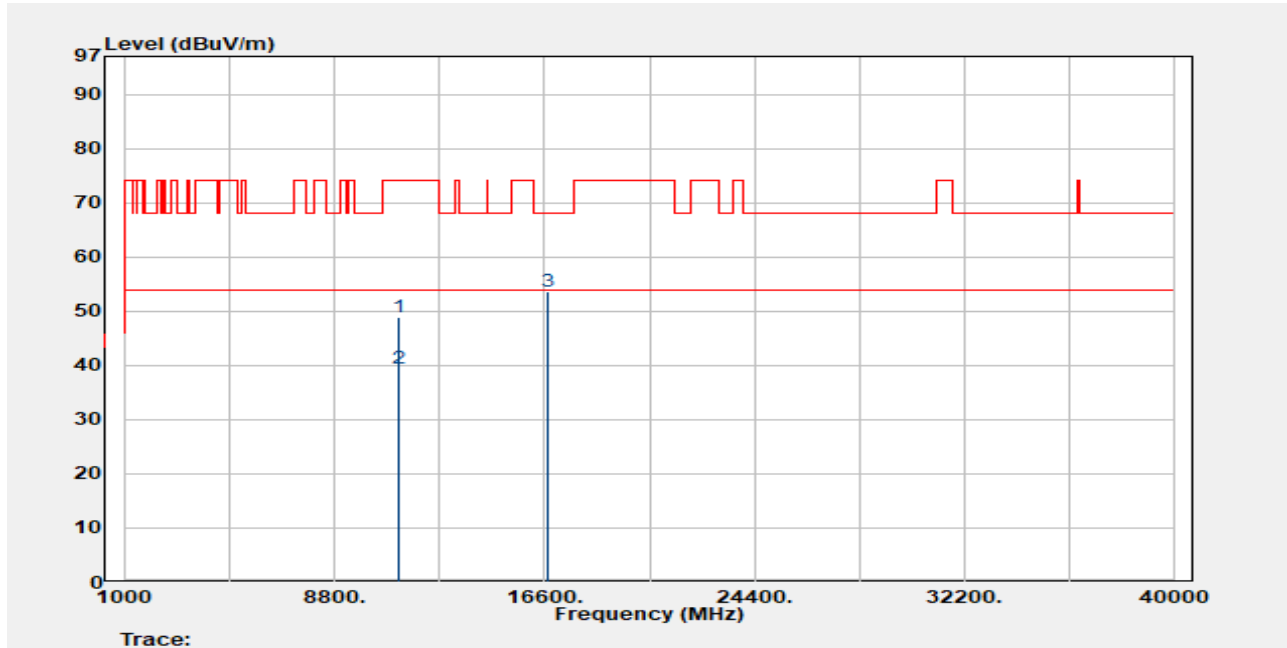
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 Operation Mode :802.11a  
 Test Frequency :5580 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11160.000	Peak	40.49	8.45	48.94	74.00	-25.06
11160.000	Average	30.95	8.45	39.40	54.00	-14.60
16740.000	Peak	42.54	11.01	53.54	68.20	-14.66

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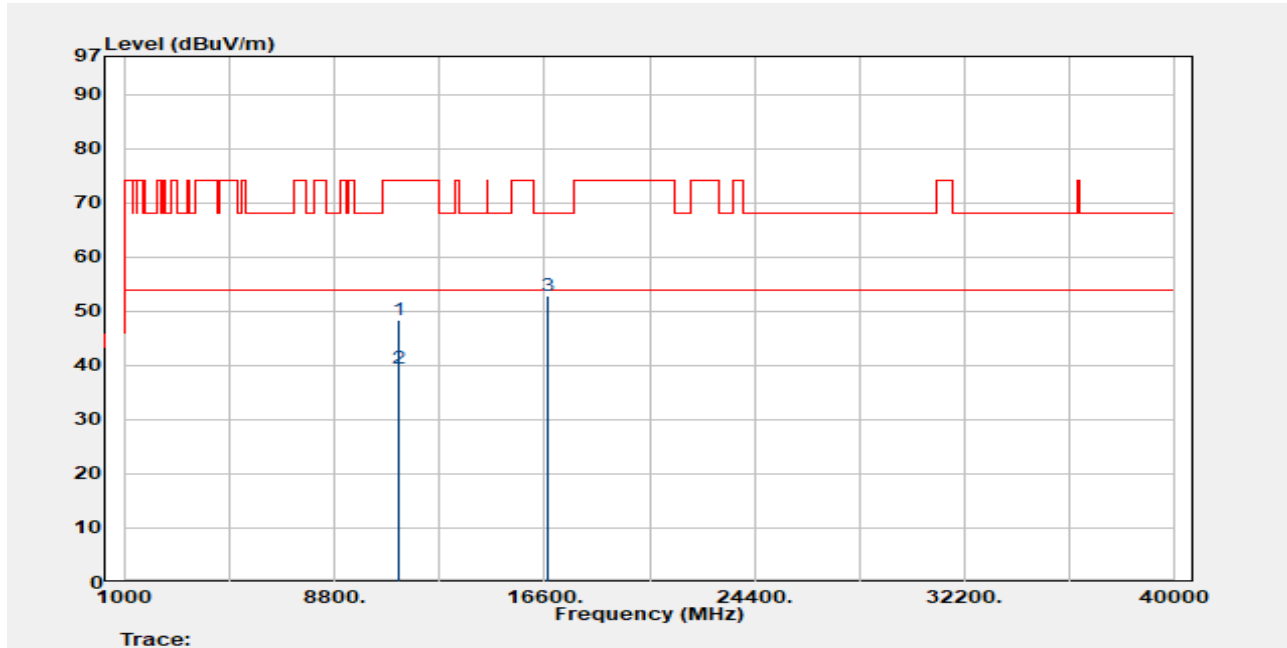
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 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11160.000	Peak	40.04	8.45	48.49	74.00	-25.51
11160.000	Average	30.92	8.45	39.37	54.00	-14.63
16740.000	Peak	41.74	11.01	52.75	68.20	-15.45

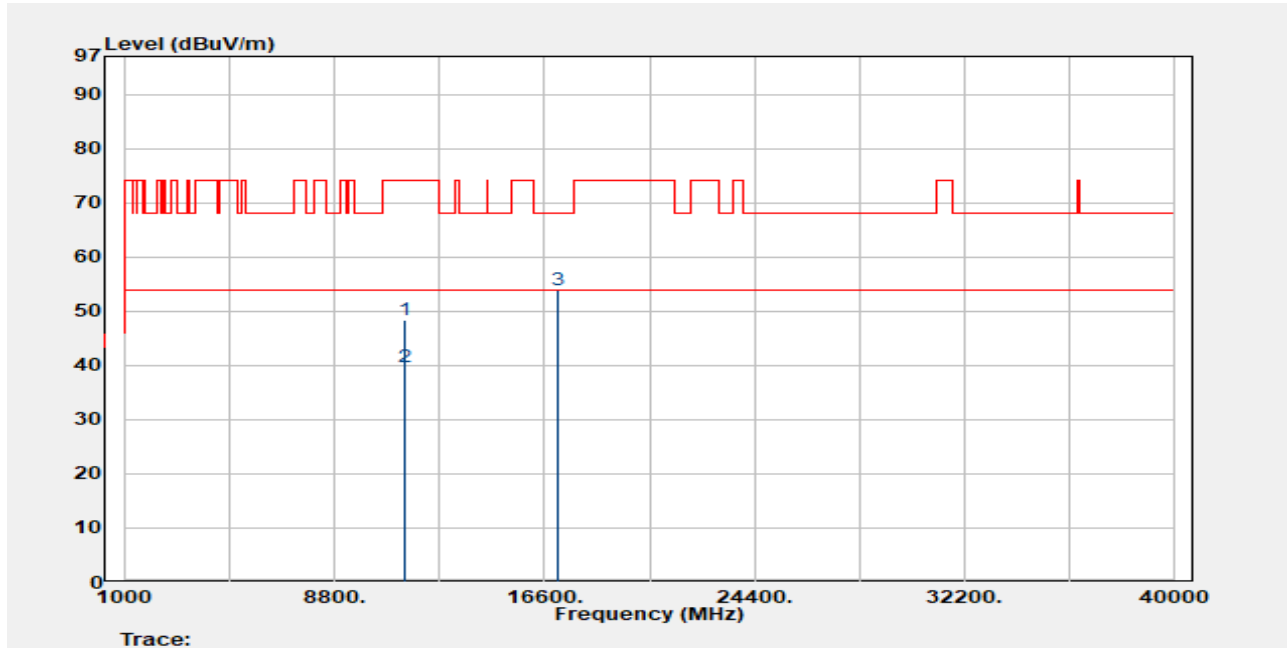
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5700 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11400.000	Peak	39.66	8.70	48.36	74.00	-25.64
11400.000	Average	30.89	8.70	39.59	54.00	-14.41
17100.000	Peak	43.21	10.55	53.76	68.20	-14.44

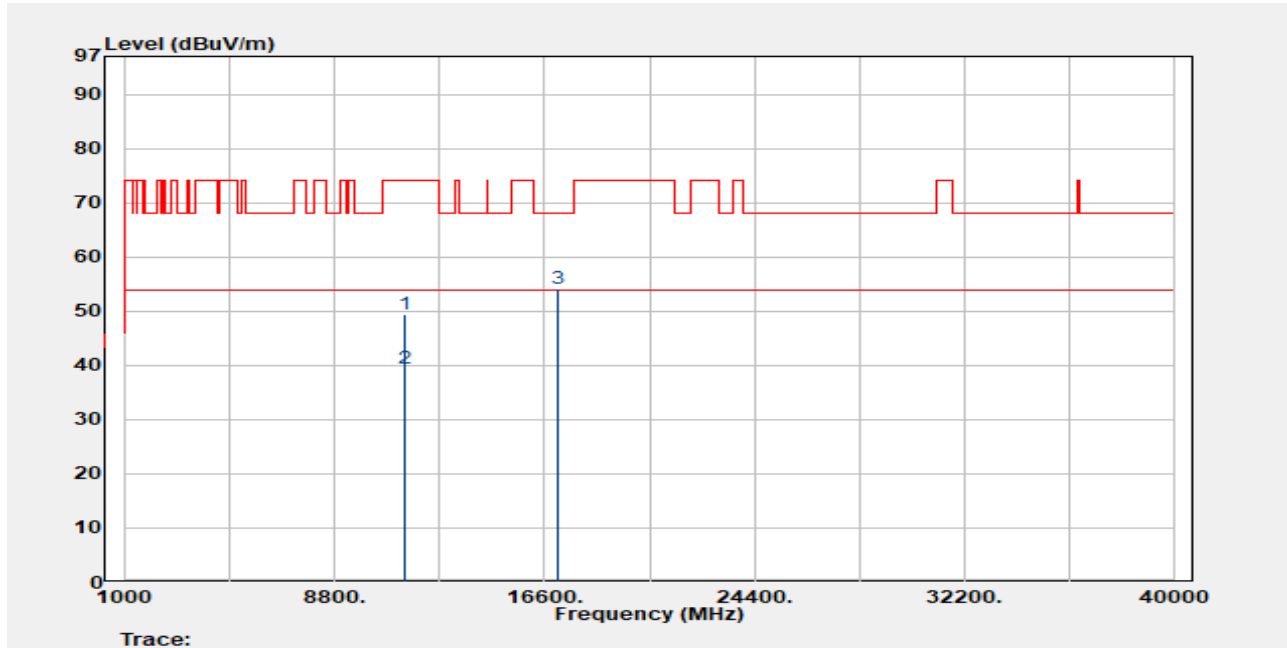
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5700 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11400.000	Peak	40.72	8.70	49.42	74.00	-24.58
11400.000	Average	30.85	8.70	39.55	54.00	-14.45
17100.000	Peak	43.62	10.55	54.17	68.20	-14.03

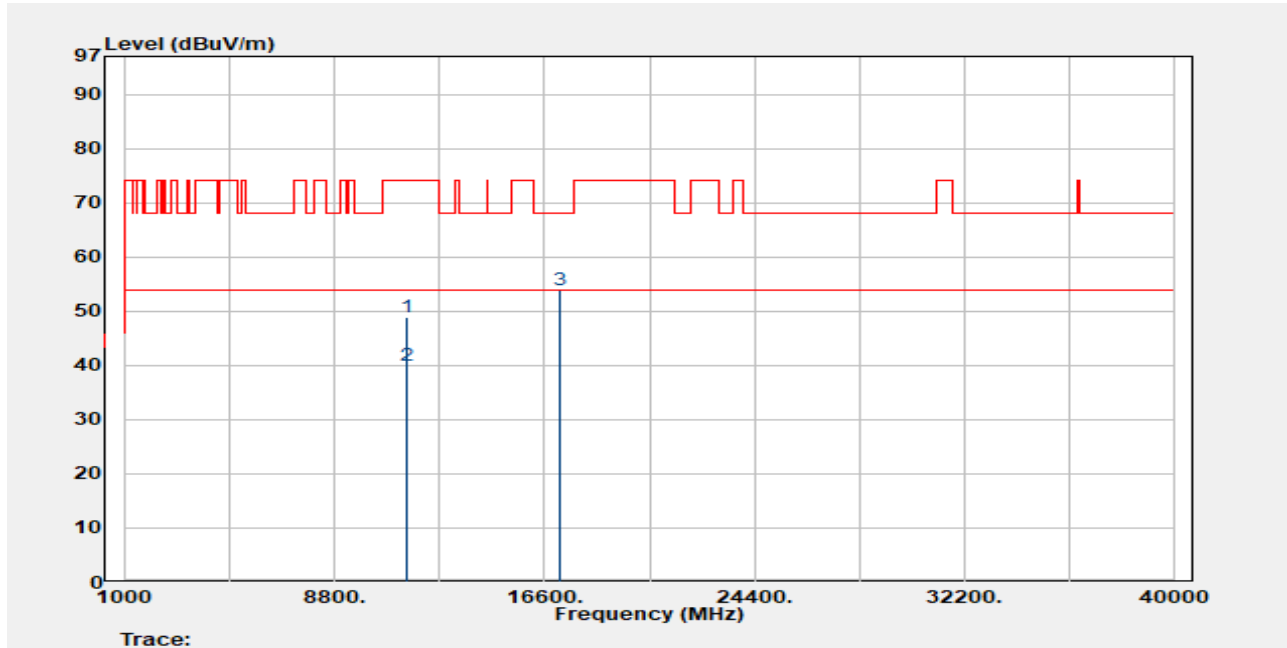
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5720 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11440.000	Peak	40.04	8.76	48.80	74.00	-25.20
11440.000	Average	31.30	8.76	40.06	54.00	-13.94
17160.000	Peak	44.32	9.68	54.00	68.20	-14.20

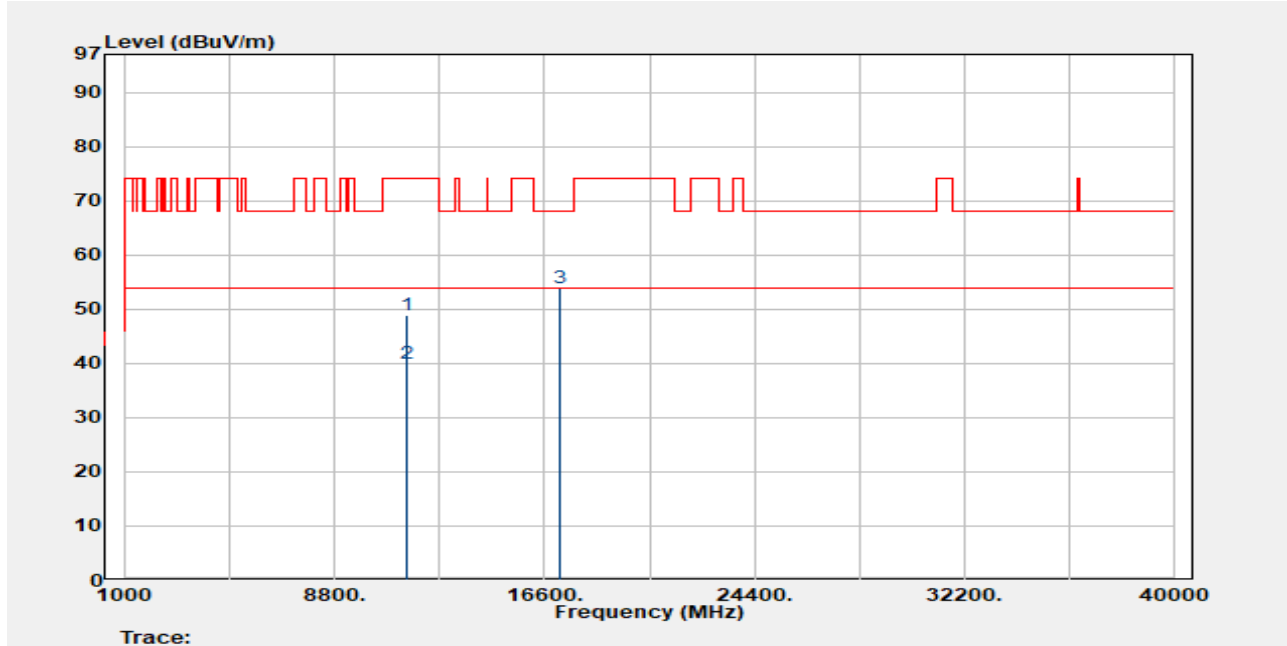
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5720 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11440.000	Peak	40.24	8.76	49.01	74.00	-24.99
11440.000	Average	31.26	8.76	40.02	54.00	-13.98
17160.000	Peak	44.13	9.68	53.82	68.20	-14.38

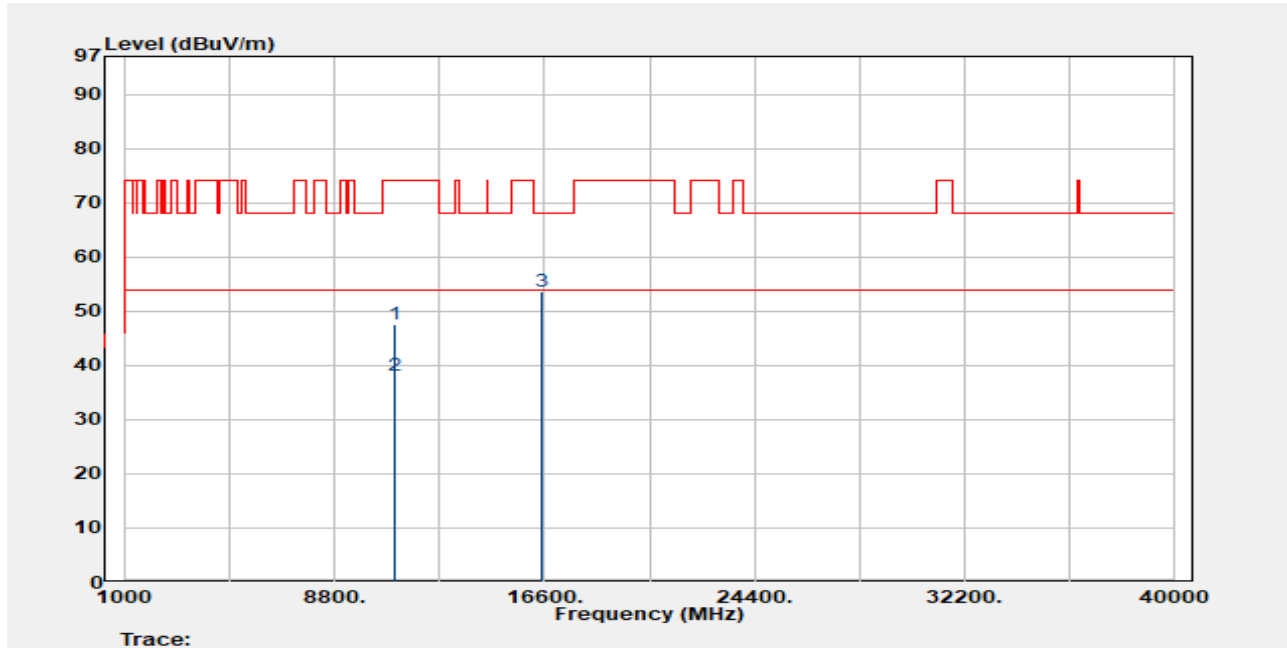
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5500 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.000	Peak	40.55	7.02	47.57	74.00	-26.43
11000.000	Average	31.08	7.02	38.10	54.00	-15.90
16500.000	Peak	41.90	11.69	53.59	68.20	-14.61

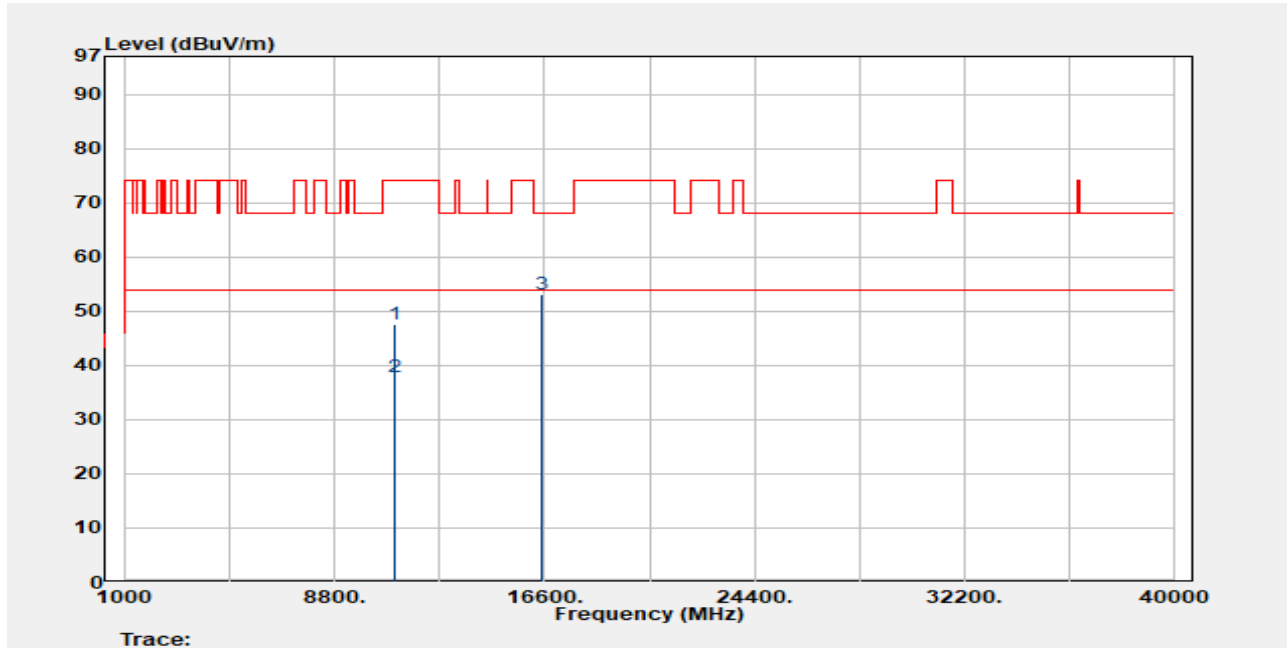
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5500 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.000	Peak	40.67	7.02	47.68	74.00	-26.32
11000.000	Average	30.92	7.02	37.94	54.00	-16.06
16500.000	Peak	41.39	11.69	53.08	68.20	-15.12

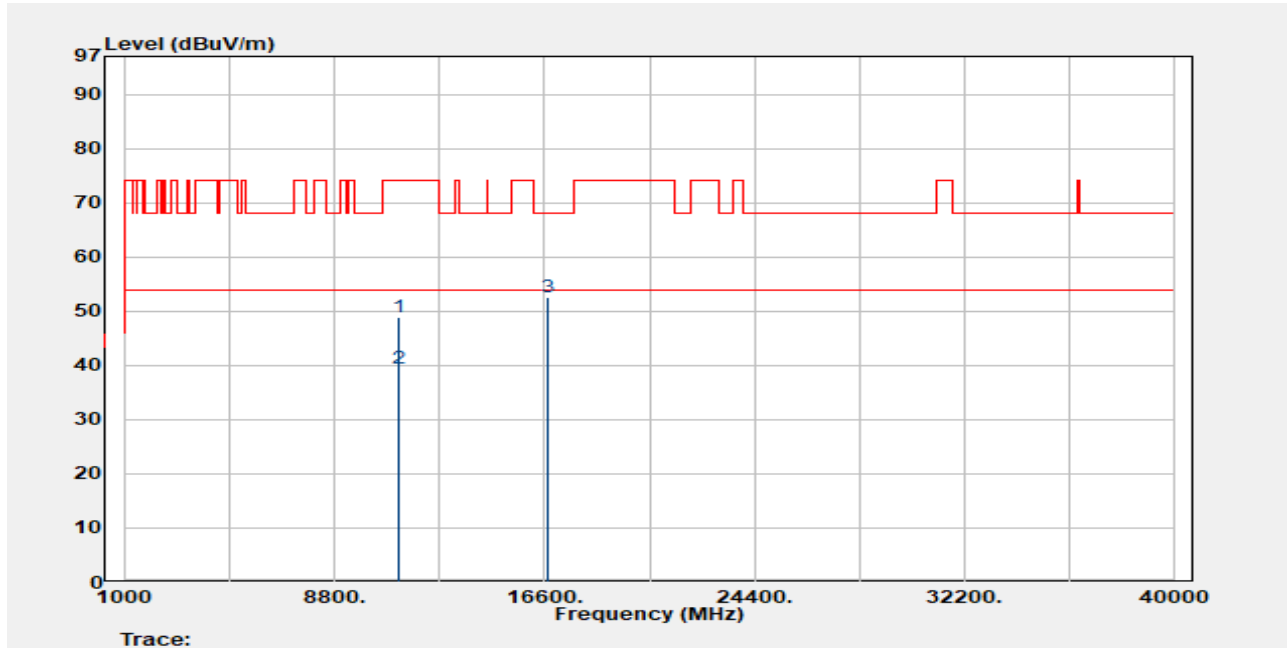
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5580 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11160.000	Peak	40.56	8.45	49.01	74.00	-24.99
11160.000	Average	30.96	8.45	39.41	54.00	-14.59
16740.000	Peak	41.56	11.01	52.57	68.20	-15.63

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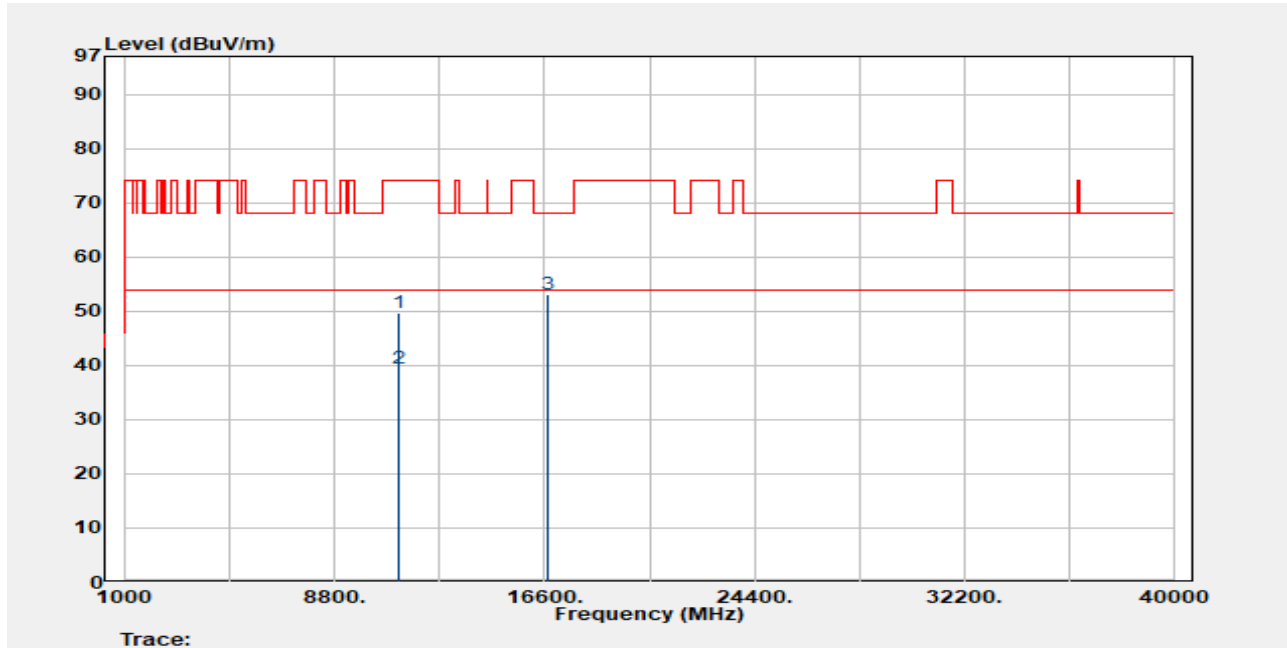
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5580 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11160.000	Peak	41.32	8.45	49.77	74.00	-24.23
11160.000	Average	30.98	8.45	39.43	54.00	-14.57
16740.000	Peak	42.16	11.01	53.16	68.20	-15.04

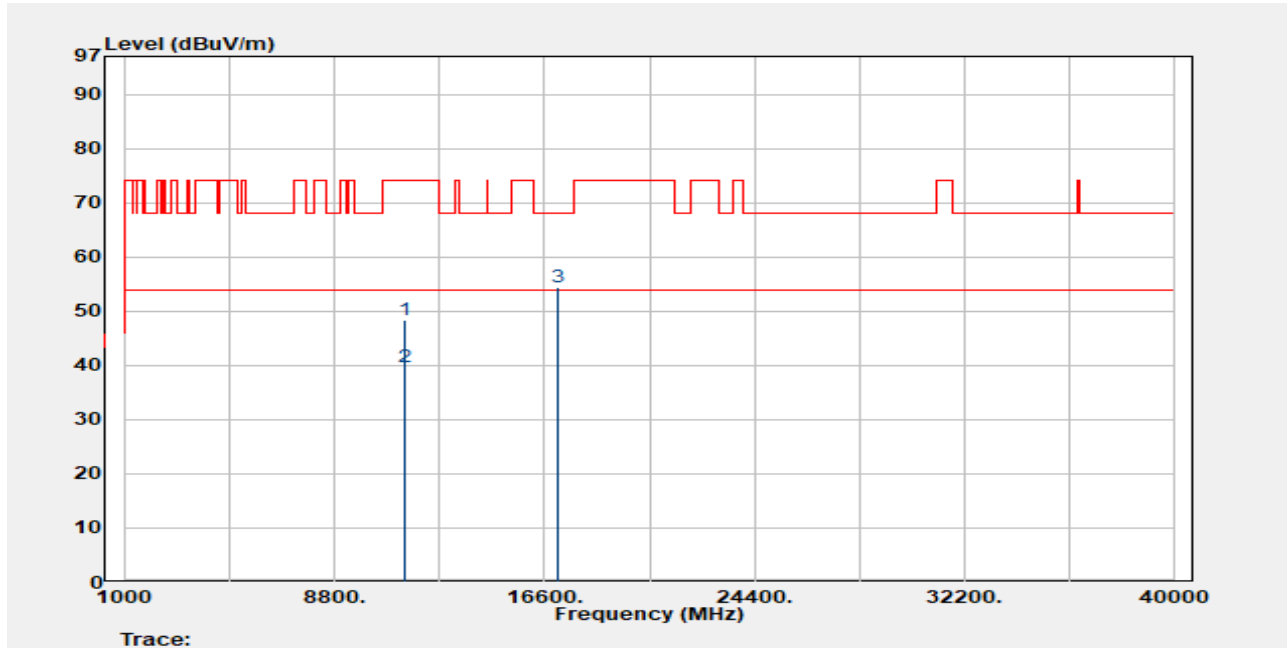
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5700 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11400.000	Peak	39.68	8.70	48.38	74.00	-25.62
11400.000	Average	30.89	8.70	39.59	54.00	-14.41
17100.000	Peak	43.93	10.55	54.49	68.20	-13.71

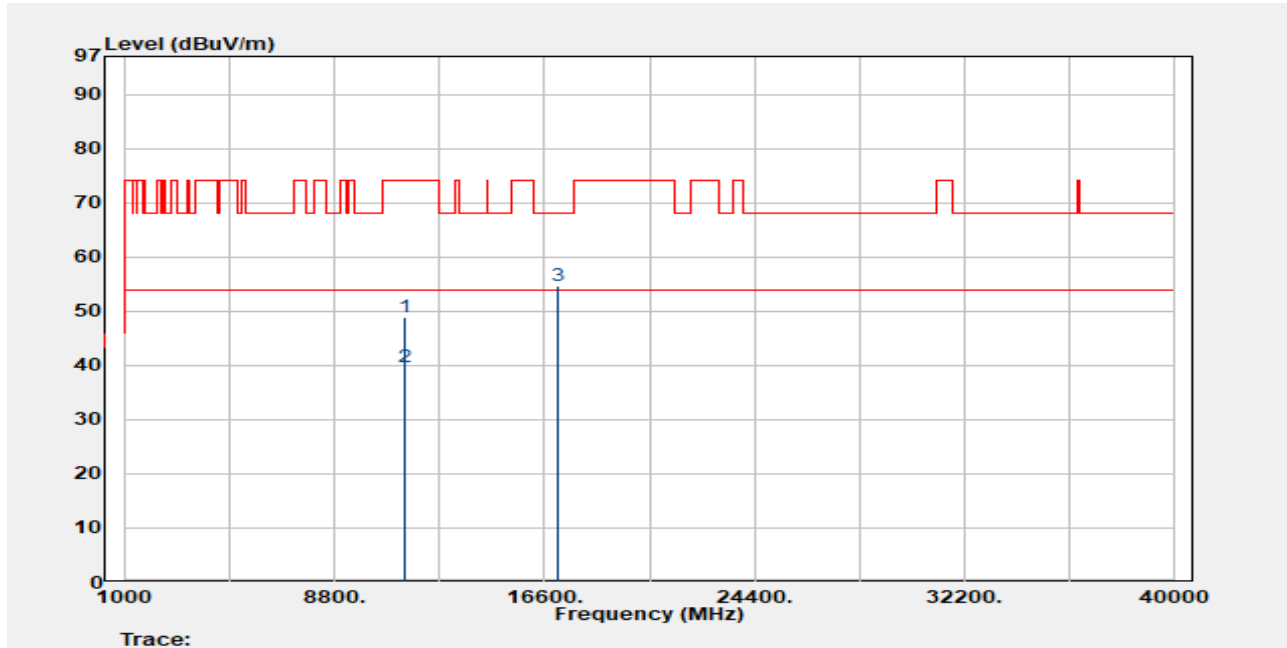
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5700 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11400.000	Peak	40.27	8.70	48.97	74.00	-25.03
11400.000	Average	30.95	8.70	39.65	54.00	-14.35
17100.000	Peak	44.18	10.55	54.73	68.20	-13.47

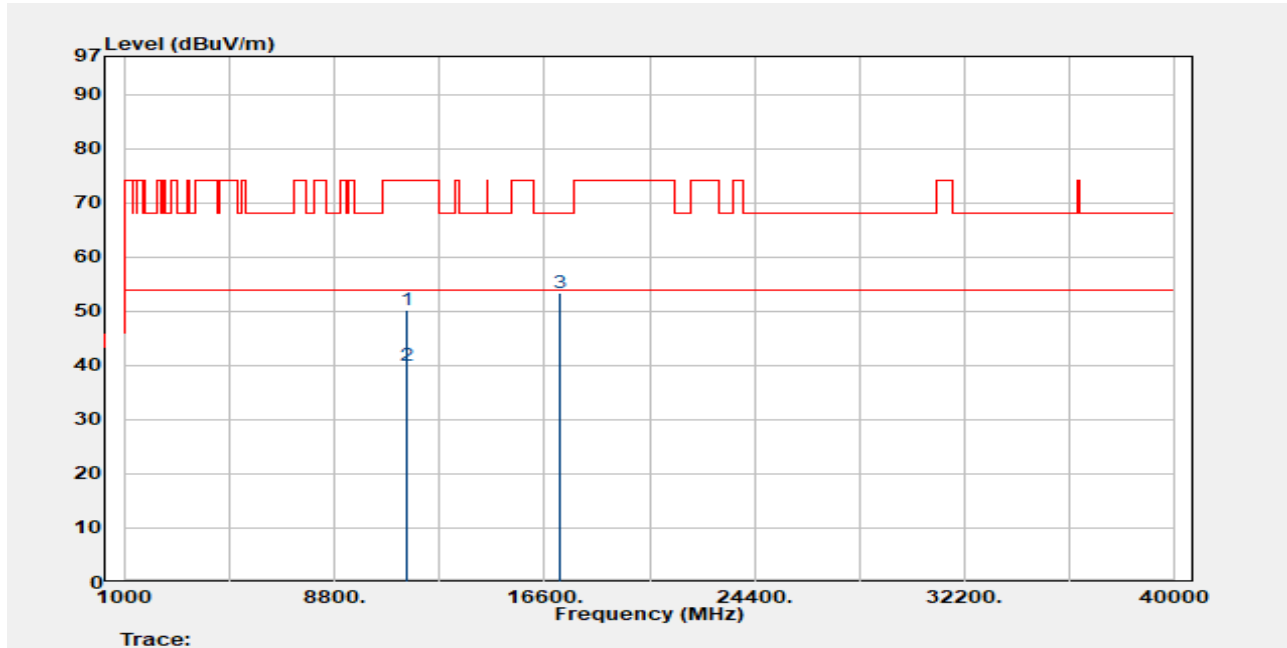
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5720 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11440.000	Peak	41.54	8.76	50.31	74.00	-23.69
11440.000	Average	31.31	8.76	40.07	54.00	-13.93
17160.000	Peak	43.64	9.68	53.33	68.20	-14.87

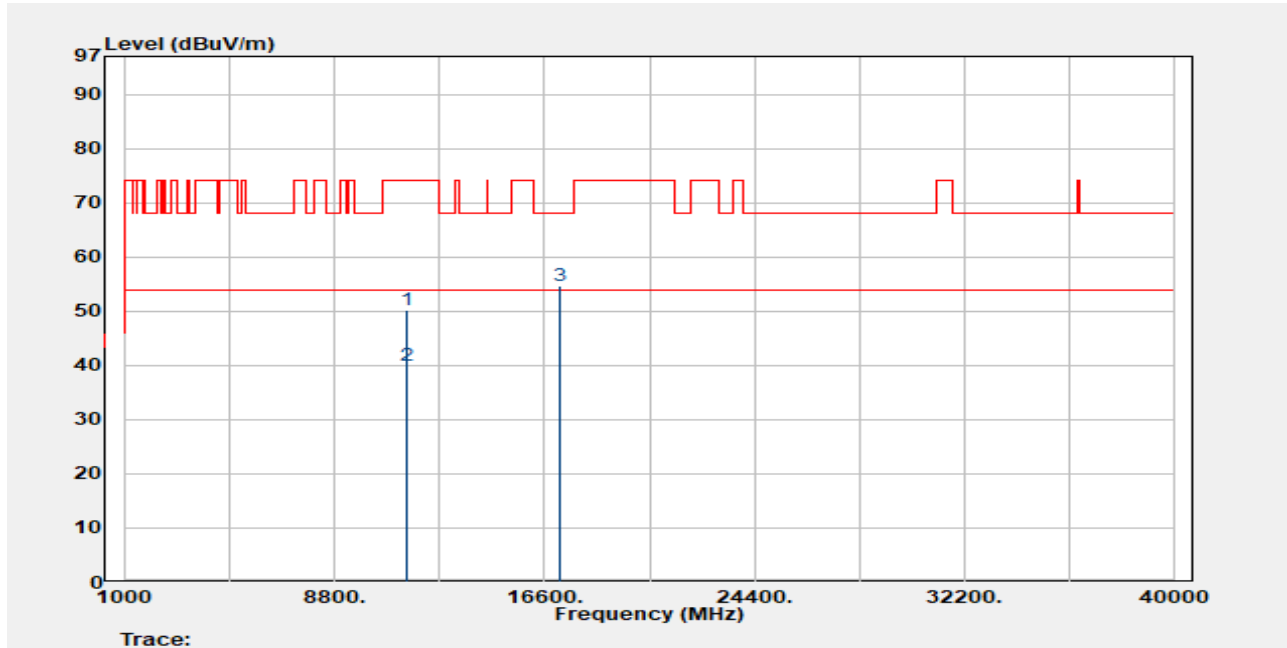
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5720 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11440.000	Peak	41.46	8.76	50.22	74.00	-23.78
11440.000	Average	31.30	8.76	40.06	54.00	-13.94
17160.000	Peak	44.90	9.68	54.59	68.20	-13.61

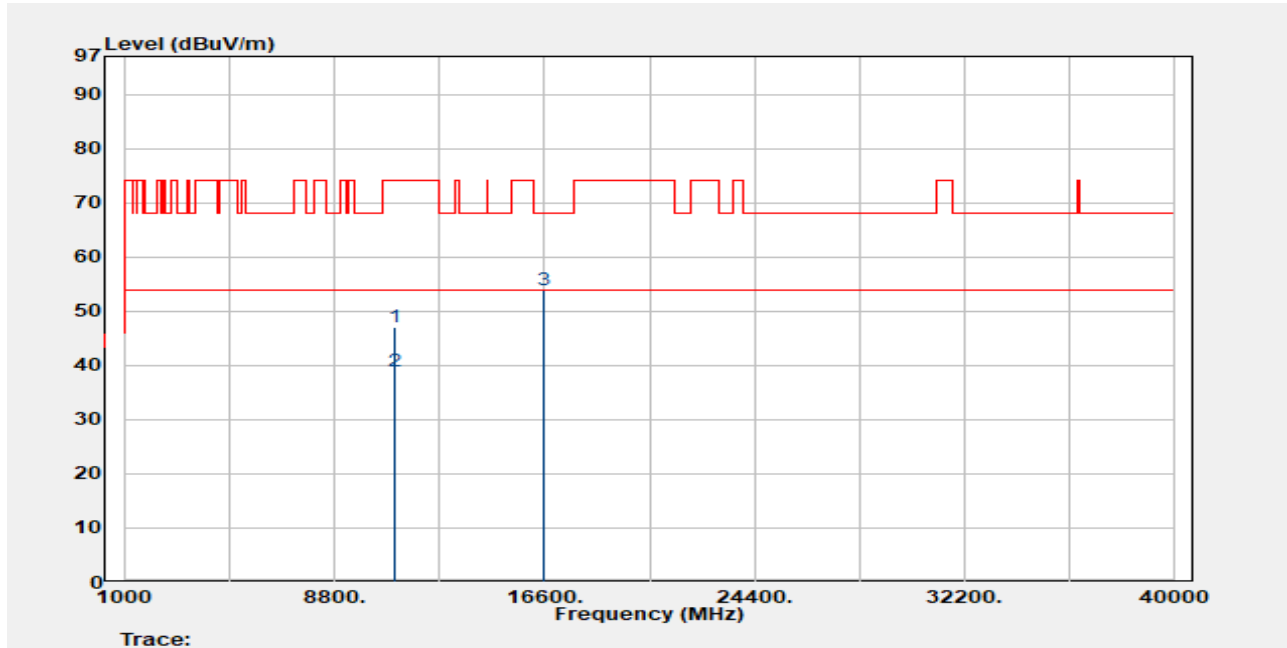
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5510 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11020.000	Peak	39.18	7.89	47.06	74.00	-26.94
11020.000	Average	30.92	7.89	38.81	54.00	-15.19
16530.000	Peak	42.79	10.98	53.77	68.20	-14.43

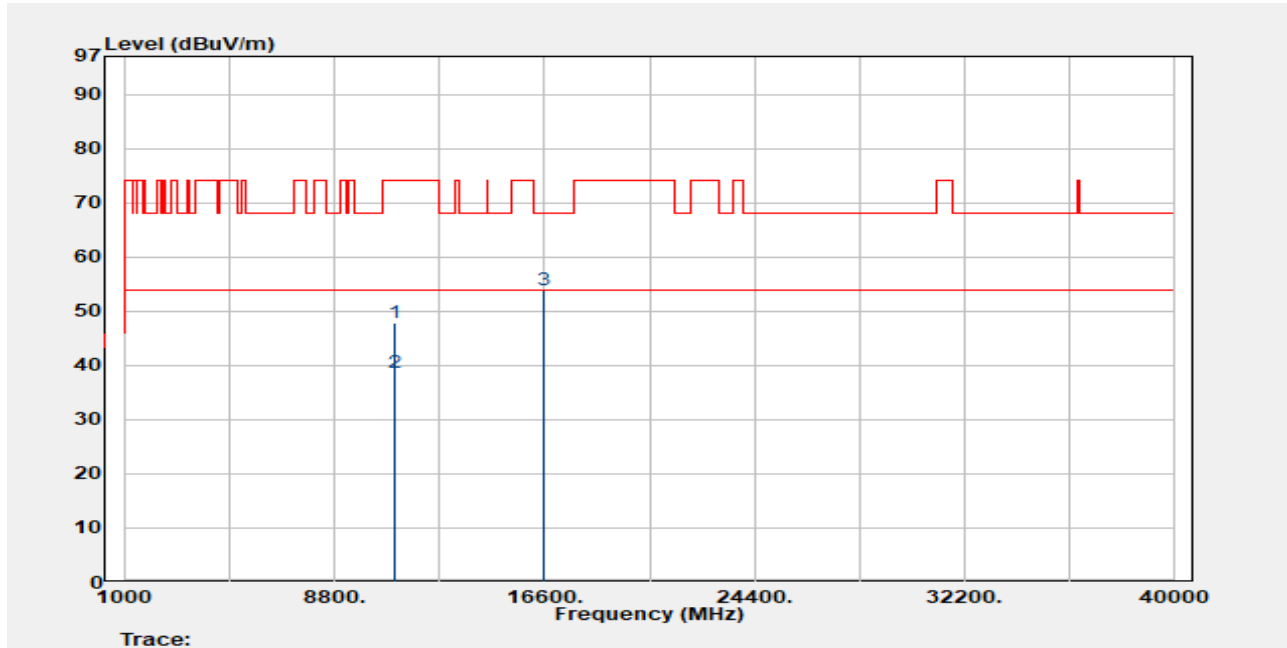
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5510 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11020.000	Peak	39.92	7.89	47.80	74.00	-26.20
11020.000	Average	30.87	7.89	38.76	54.00	-15.24
16530.000	Peak	42.95	10.98	53.93	68.20	-14.27

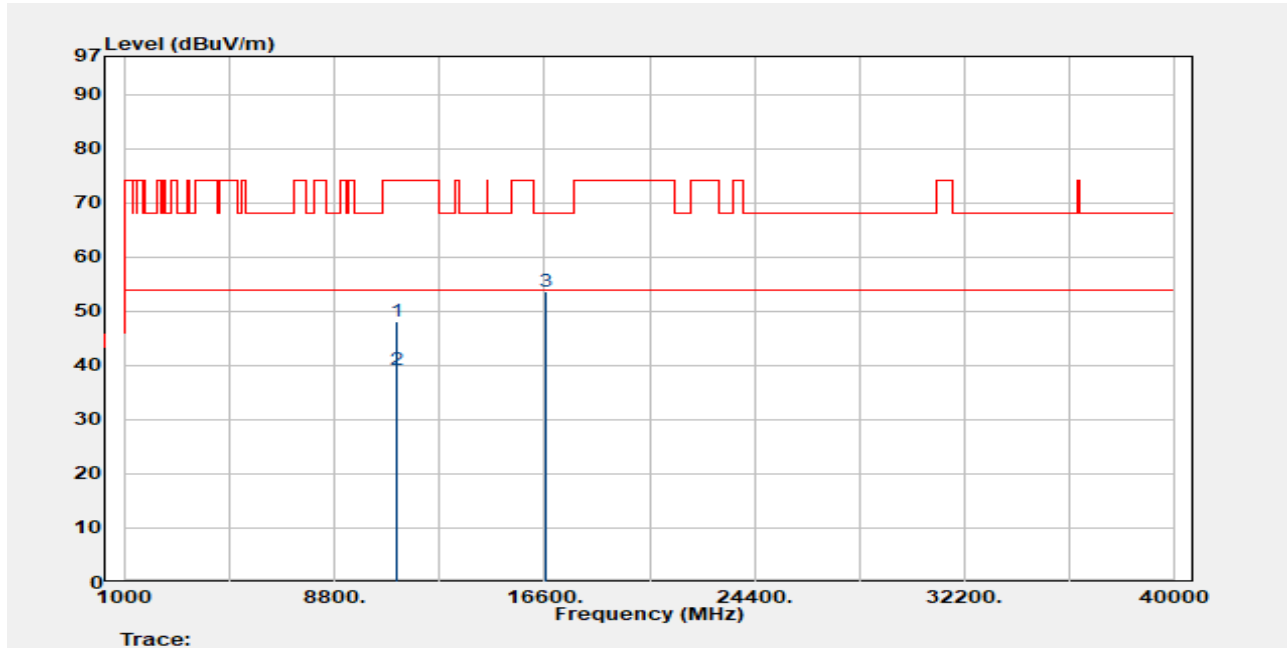
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5550 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11100.000	Peak	39.79	8.42	48.21	74.00	-25.79
11100.000	Average	30.82	8.42	39.24	54.00	-14.76
16650.000	Peak	42.86	10.68	53.53	68.20	-14.67

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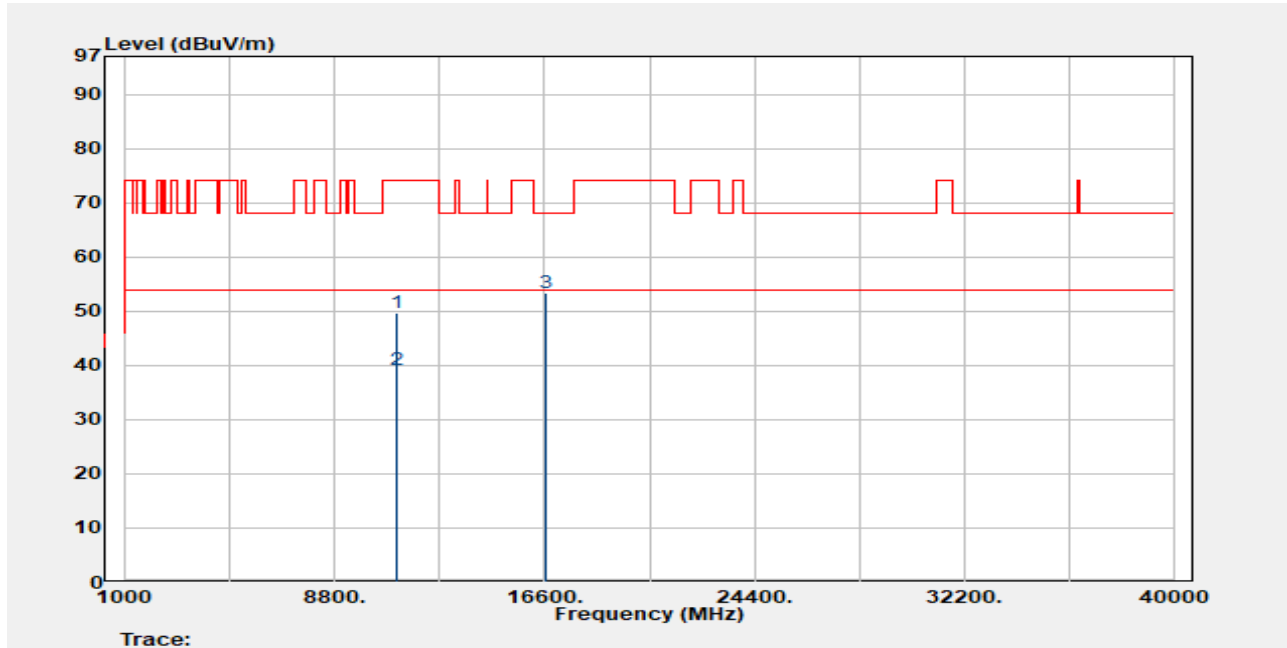
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5550 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11100.000	Peak	41.20	8.42	49.62	74.00	-24.38
11100.000	Average	30.82	8.42	39.24	54.00	-14.76
16650.000	Peak	42.76	10.68	53.43	68.20	-14.77

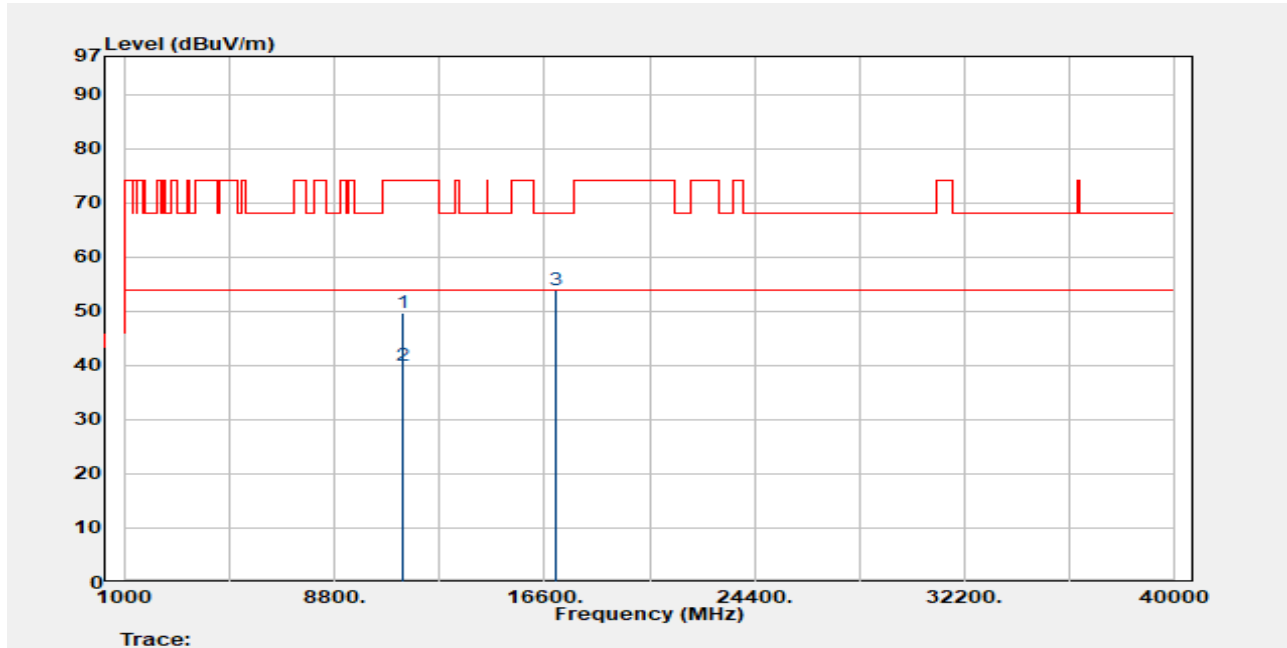
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5670 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11340.000	Peak	40.51	9.15	49.66	74.00	-24.34
11340.000	Average	30.92	9.15	40.07	54.00	-13.93
17010.000	Peak	43.78	10.21	53.99	68.20	-14.21

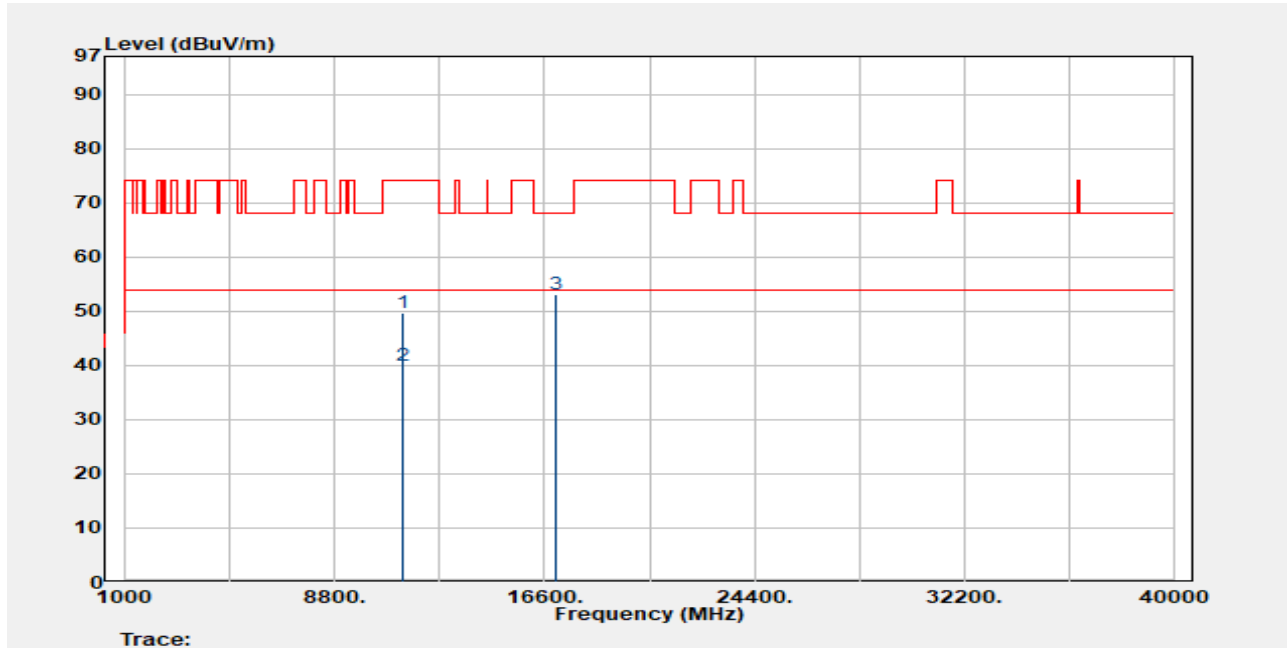
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5670 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11340.000	Peak	40.63	9.15	49.78	74.00	-24.22
11340.000	Average	30.91	9.15	40.06	54.00	-13.94
17010.000	Peak	43.01	10.21	53.22	68.20	-14.98

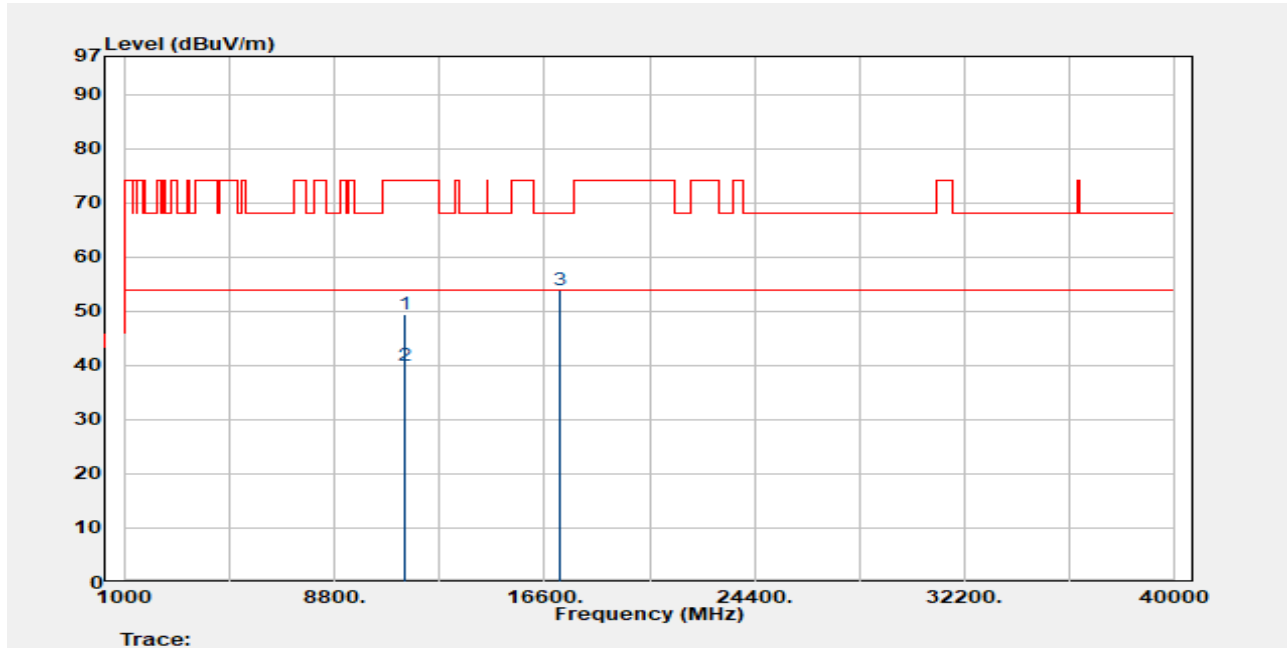
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5710 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11420.000	Peak	40.66	8.73	49.40	74.00	-24.60
11420.000	Average	31.11	8.73	39.84	54.00	-14.16
17130.000	Peak	43.79	10.05	53.83	68.20	-14.37

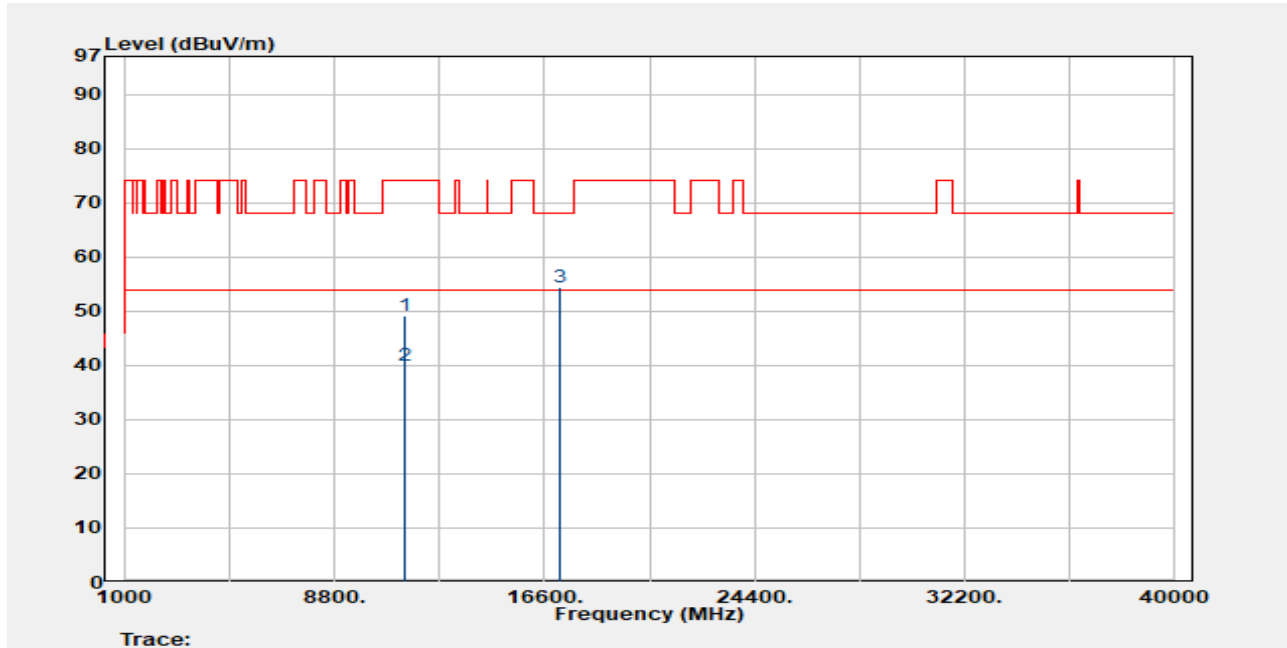
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5710 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11420.000	Peak	40.31	8.73	49.04	74.00	-24.96
11420.000	Average	31.15	8.73	39.88	54.00	-14.12
17130.000	Peak	44.43	10.05	54.48	68.20	-13.72

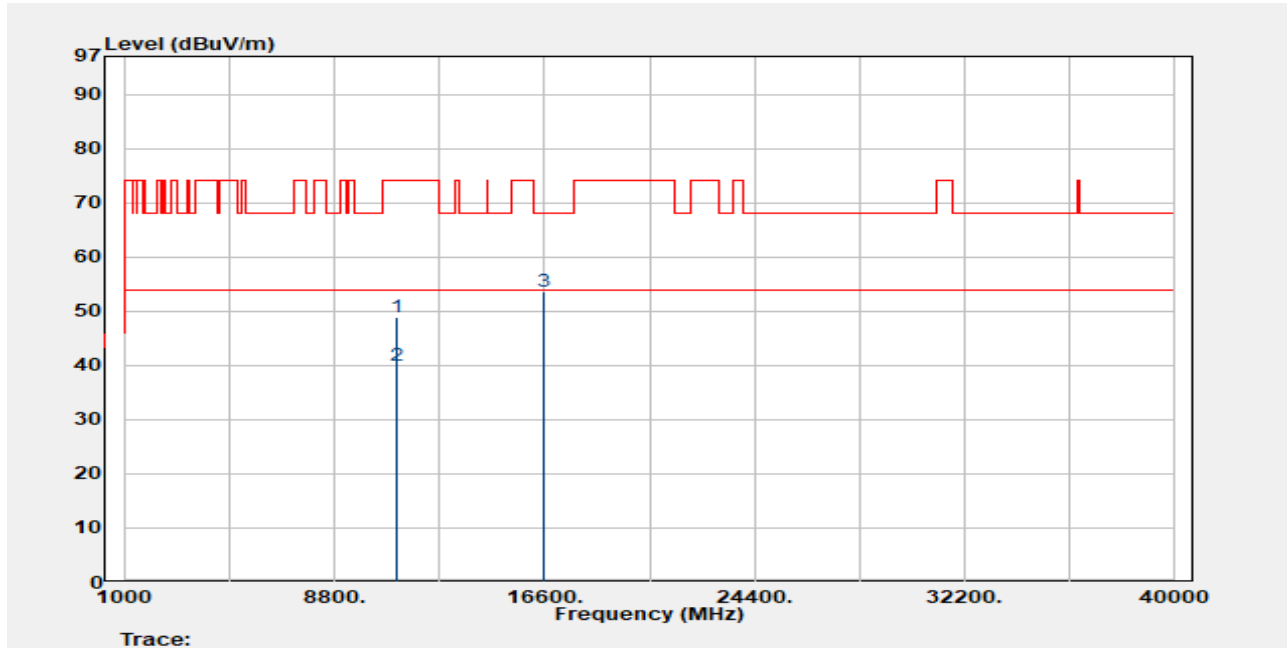
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5530 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11060.000	Peak	39.94	9.03	48.97	74.00	-25.03
11060.000	Average	31.02	9.03	40.05	54.00	-13.95
16590.000	Peak	42.70	10.90	53.60	68.20	-14.60

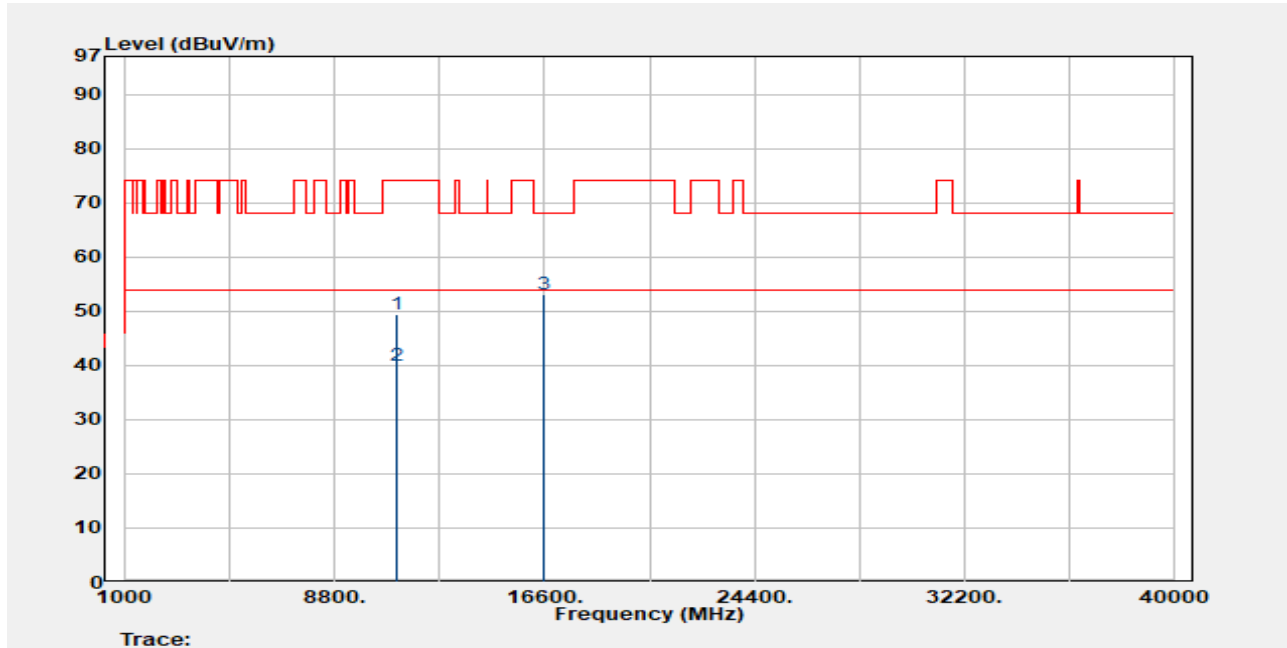
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5530 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11060.000	Peak	40.33	9.03	49.36	74.00	-24.64
11060.000	Average	31.04	9.03	40.07	54.00	-13.93
16590.000	Peak	42.28	10.90	53.18	68.20	-15.02

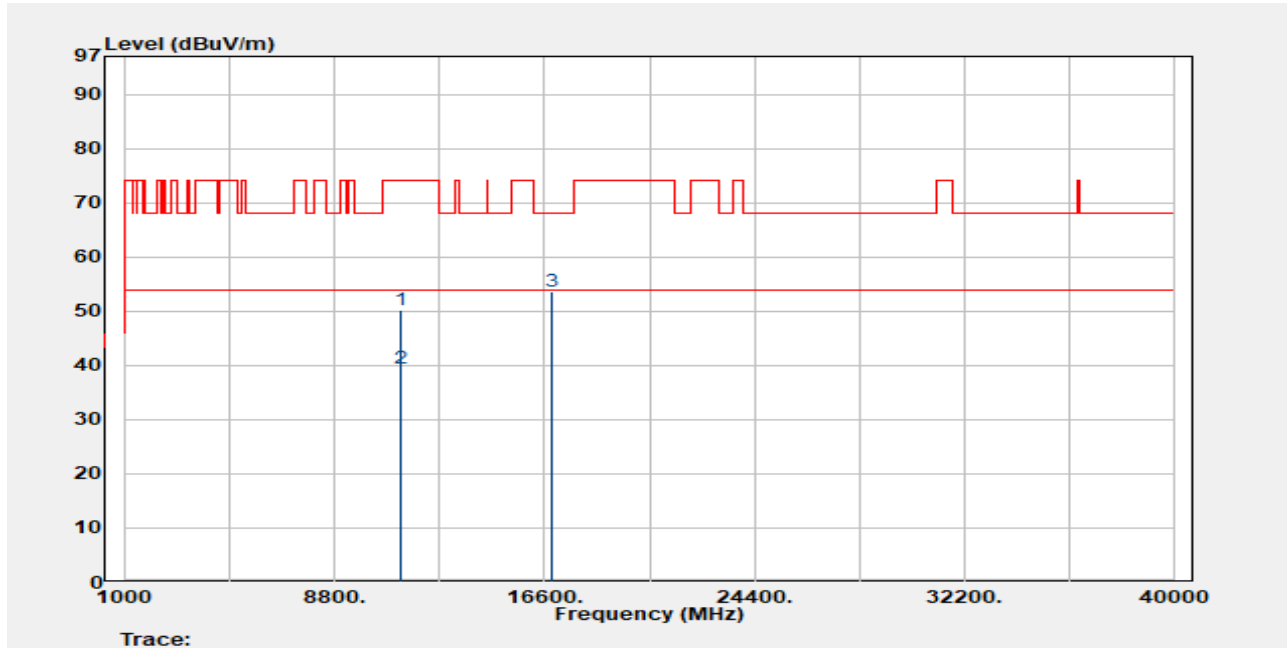
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5610 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11220.000	Peak	41.83	8.50	50.33	74.00	-23.67
11220.000	Average	30.89	8.50	39.39	54.00	-14.61
16830.000	Peak	43.27	10.32	53.59	68.20	-14.61

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

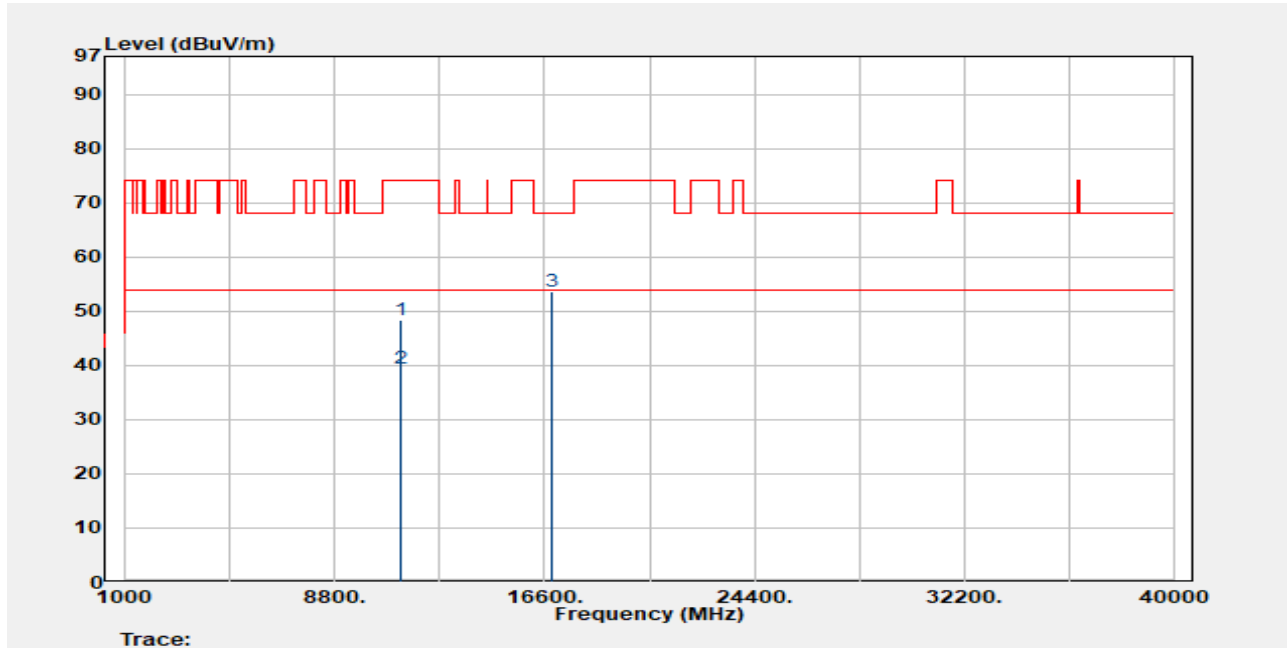
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5610 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11220.000	Peak	39.85	8.50	48.36	74.00	-25.64
11220.000	Average	30.82	8.50	39.32	54.00	-14.68
16830.000	Peak	43.33	10.32	53.65	68.20	-14.55

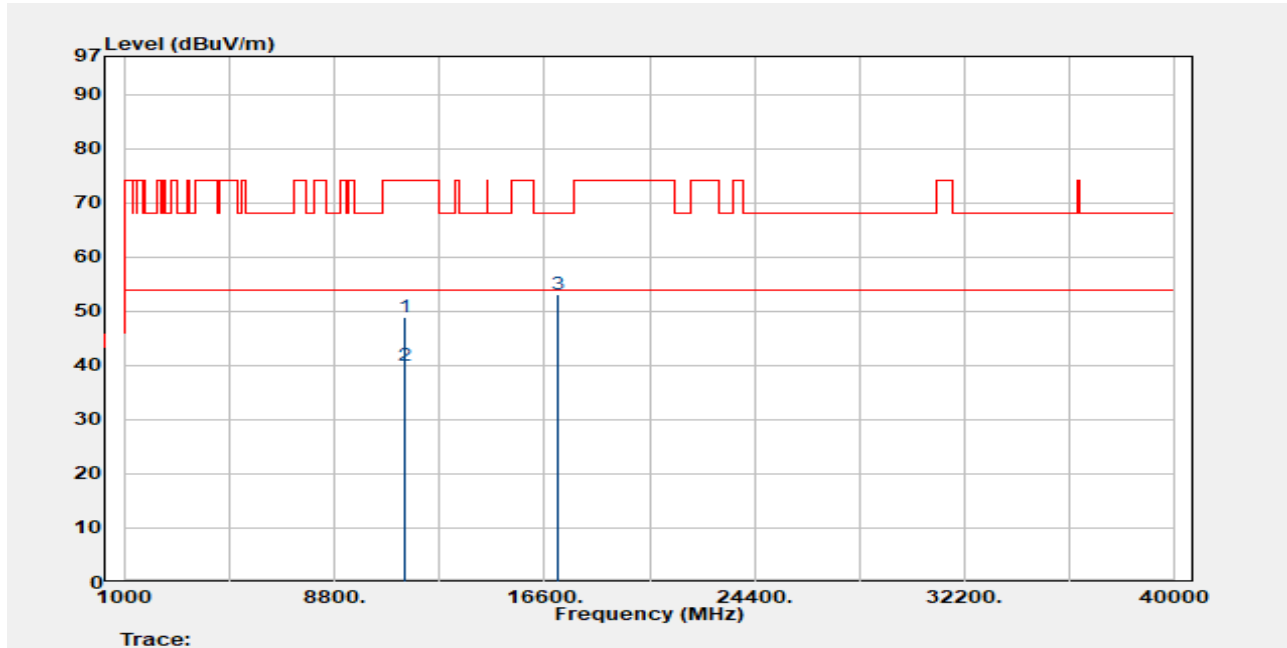
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5690 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11380.000	Peak	40.07	8.87	48.94	74.00	-25.06
11380.000	Average	31.08	8.87	39.95	54.00	-14.05
17070.000	Peak	43.35	9.77	53.12	68.20	-15.08

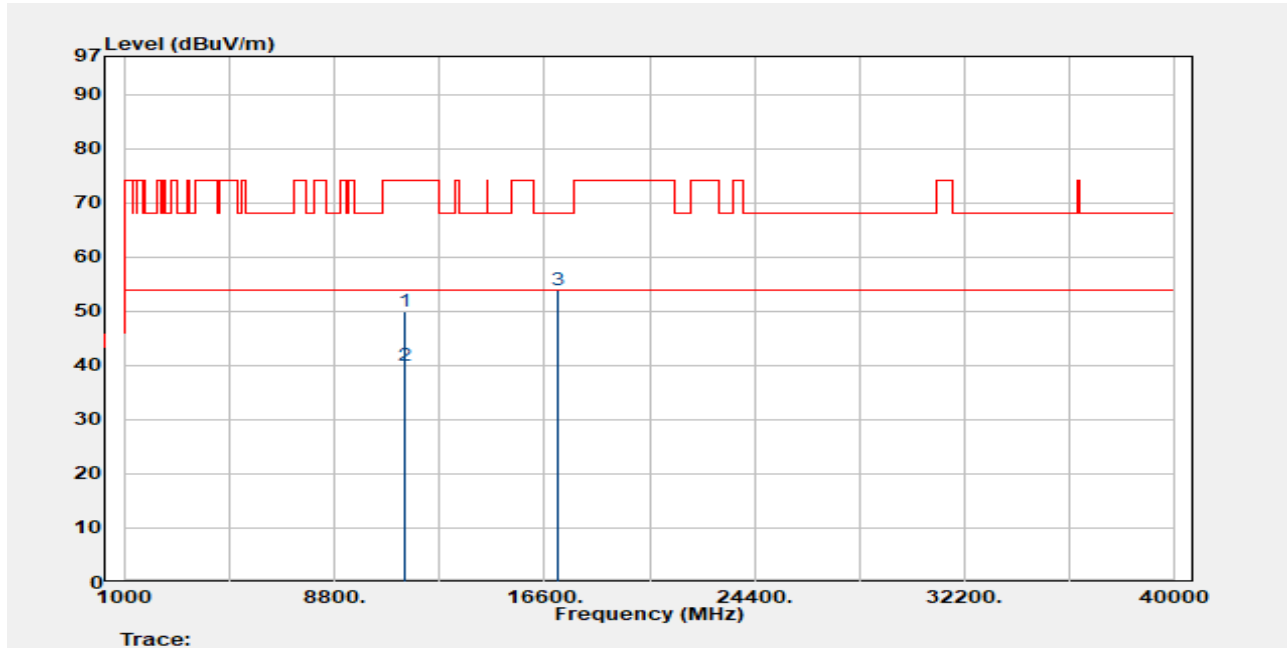
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5690 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11380.000	Peak	41.15	8.87	50.02	74.00	-23.98
11380.000	Average	31.07	8.87	39.94	54.00	-14.06
17070.000	Peak	44.19	9.77	53.97	68.20	-14.23

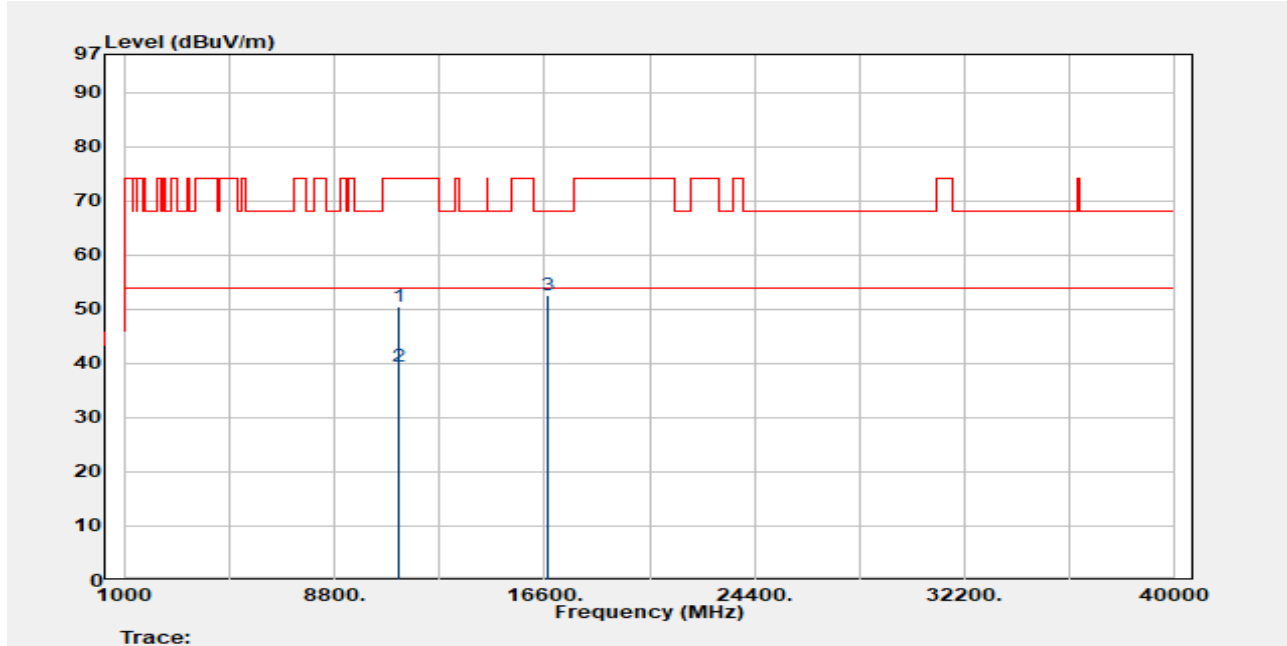
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac160  
 Test Frequency :5570 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11140.000	Peak	42.03	8.47	50.49	74.00	-23.51
11140.000	Average	30.95	8.47	39.42	54.00	-14.58
16710.000	Peak	42.33	10.37	52.70	68.20	-15.50

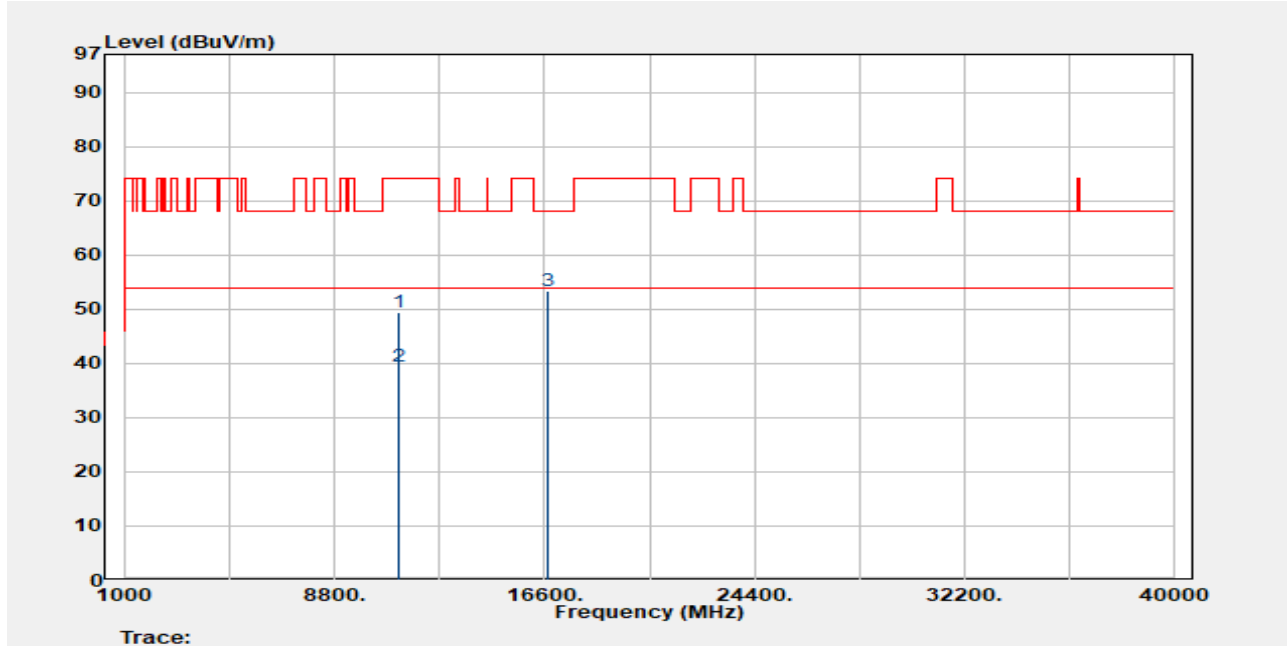
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac160  
 Test Frequency :5570 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11140.000	Peak	41.05	8.47	49.52	74.00	-24.48
11140.000	Average	30.92	8.47	39.39	54.00	-14.61
16710.000	Peak	42.91	10.37	53.28	68.20	-14.92

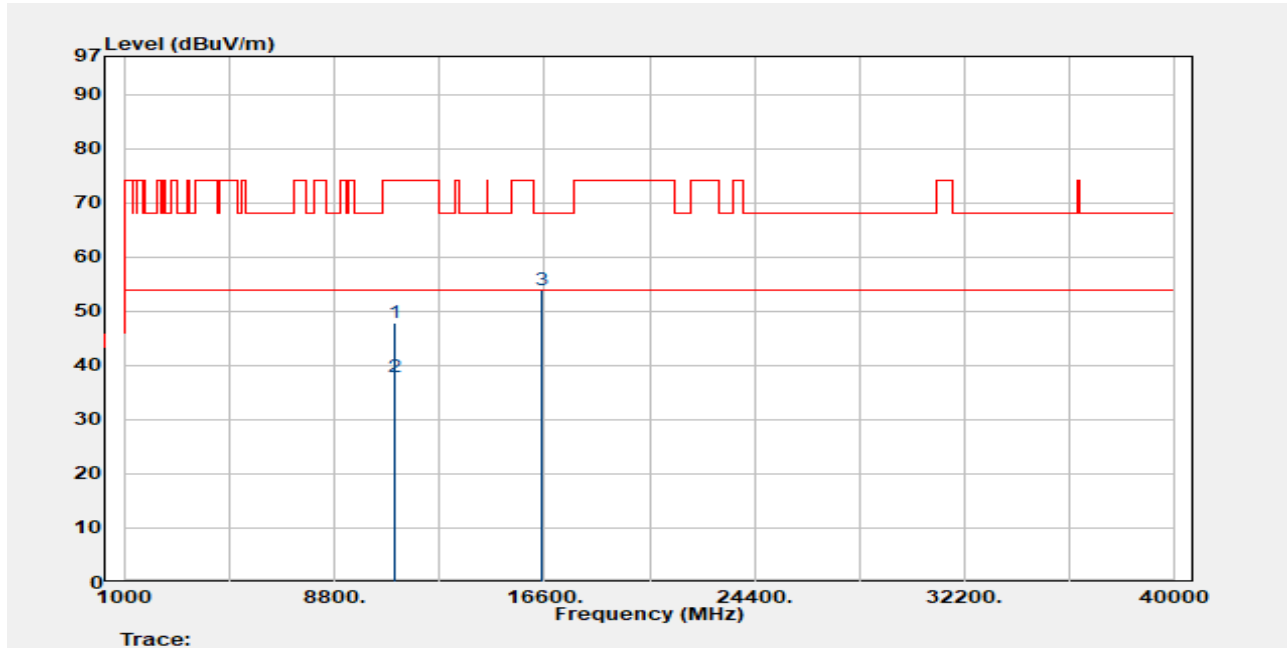
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5500 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.000	Peak	40.89	7.02	47.91	74.00	-26.09
11000.000	Average	30.90	7.02	37.92	54.00	-16.08
16500.000	Peak	42.15	11.69	53.84	68.20	-14.36

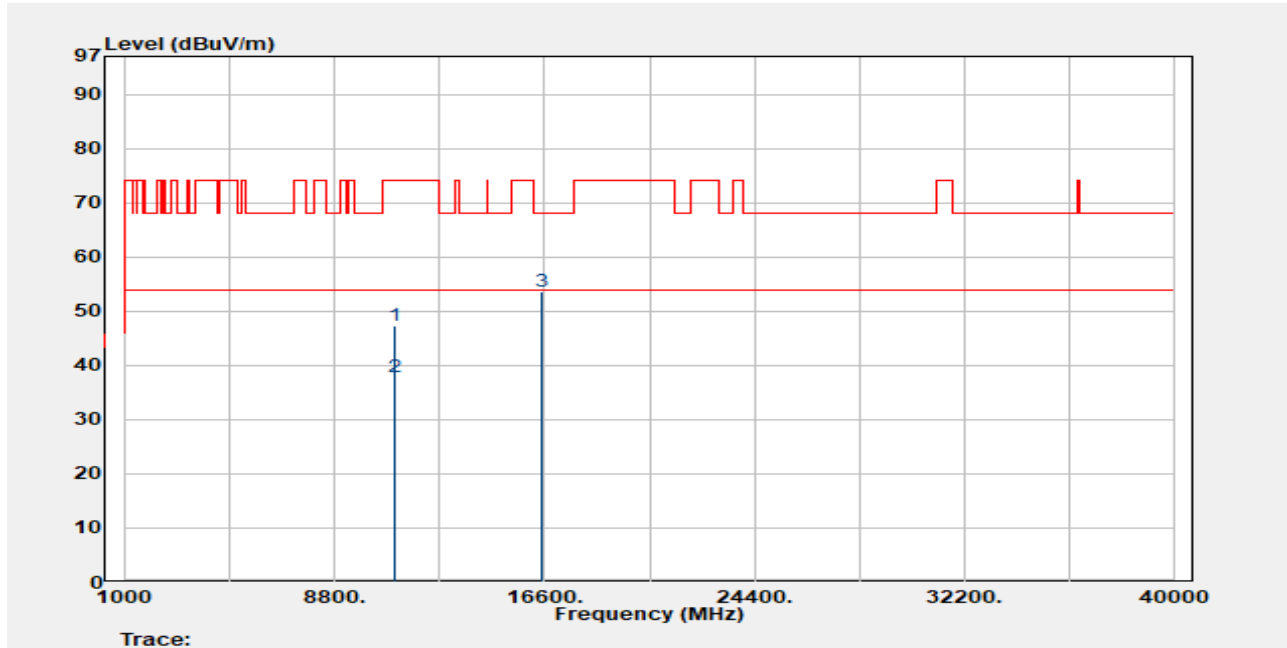
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5500 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Peak	40.37	7.02	47.39	74.00	-26.61
11000.000	Average	30.86	7.02	37.88	54.00	-16.12
16500.000	Peak	42.01	11.69	53.70	68.20	-14.50

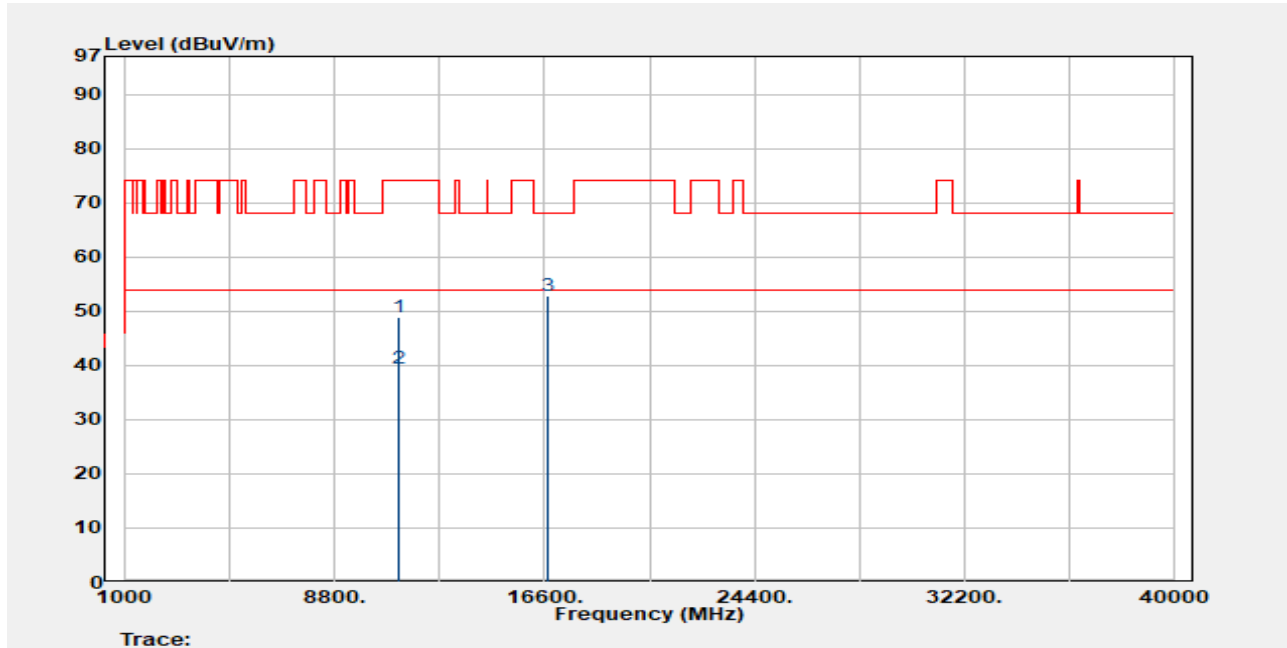
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5580 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11160.000	Peak	40.56	8.45	49.01	74.00	-24.99
11160.000	Average	30.89	8.45	39.34	54.00	-14.66
16740.000	Peak	41.93	11.01	52.94	68.20	-15.26

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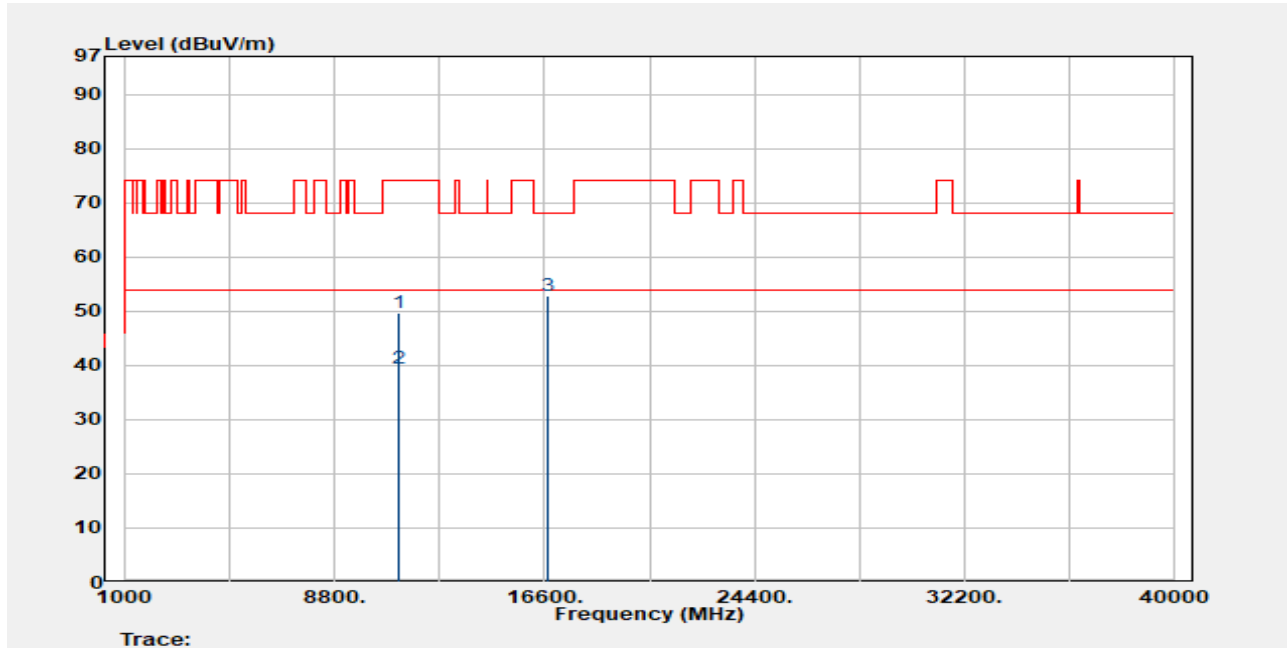
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5580 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11160.000	Peak	41.26	8.45	49.71	74.00	-24.29
11160.000	Average	30.90	8.45	39.35	54.00	-14.65
16740.000	Peak	41.71	11.01	52.71	68.20	-15.49

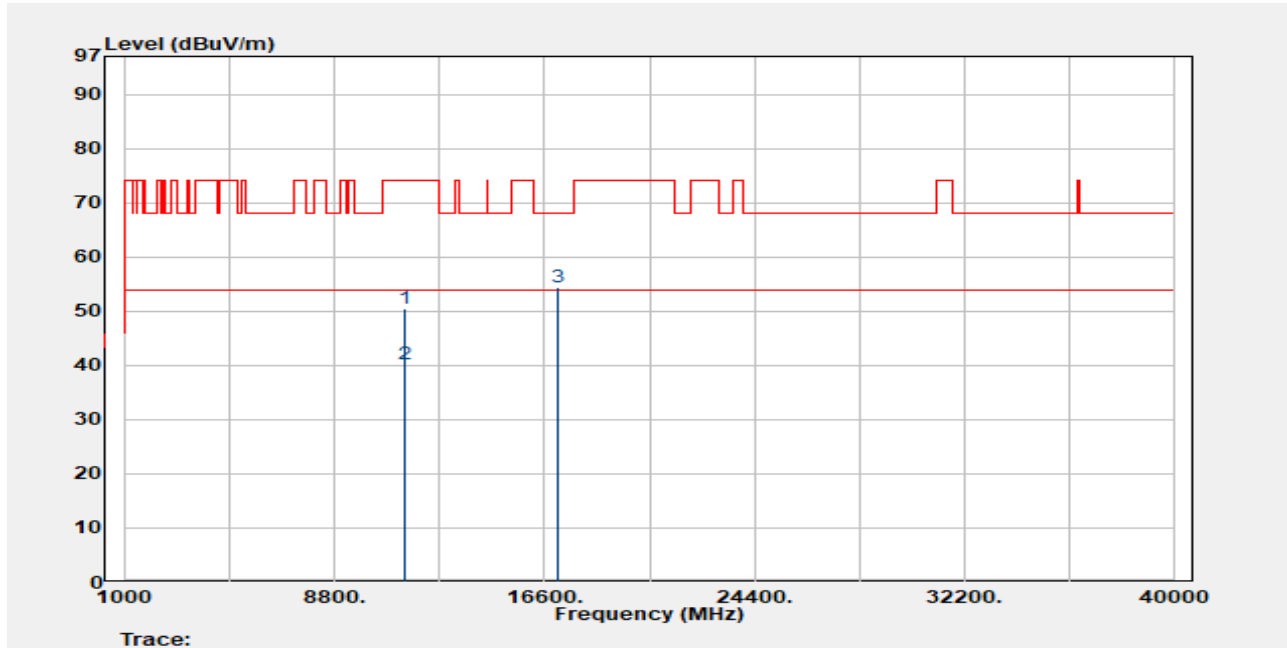
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5700 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11400.000	Peak	41.85	8.70	50.55	74.00	-23.45
11400.000	Average	31.41	8.70	40.11	54.00	-13.89
17100.000	Peak	43.96	10.55	54.52	68.20	-13.68

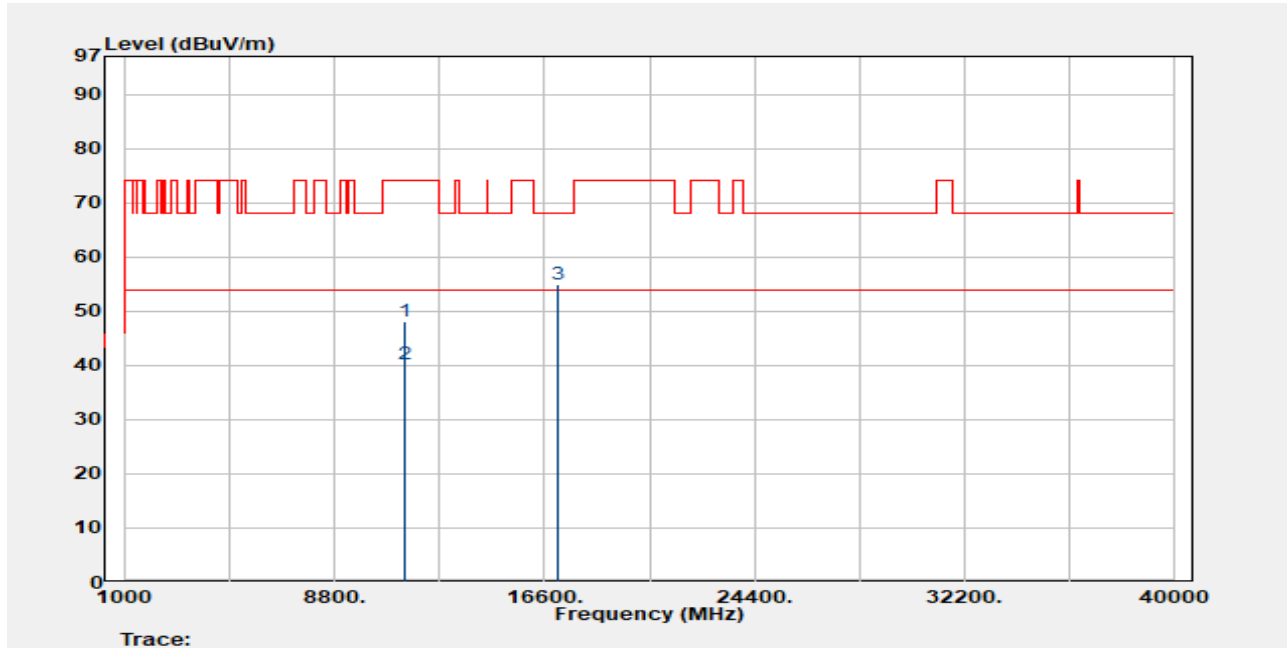
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5700 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11400.000	Peak	39.54	8.70	48.24	74.00	-25.76
11400.000	Average	31.48	8.70	40.18	54.00	-13.82
17100.000	Peak	44.29	10.55	54.84	68.20	-13.36

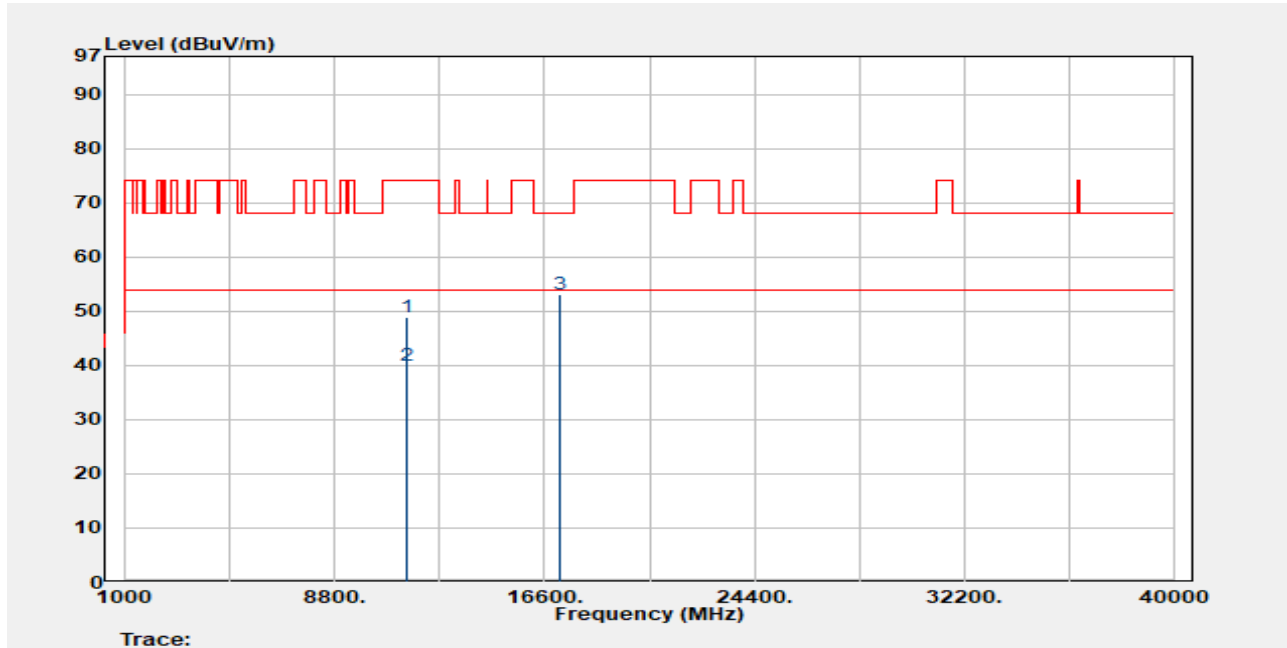
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5720 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11440.000	Peak	40.16	8.76	48.92	74.00	-25.08
11440.000	Average	31.13	8.76	39.89	54.00	-14.11
17160.000	Peak	43.47	9.68	53.15	68.20	-15.05

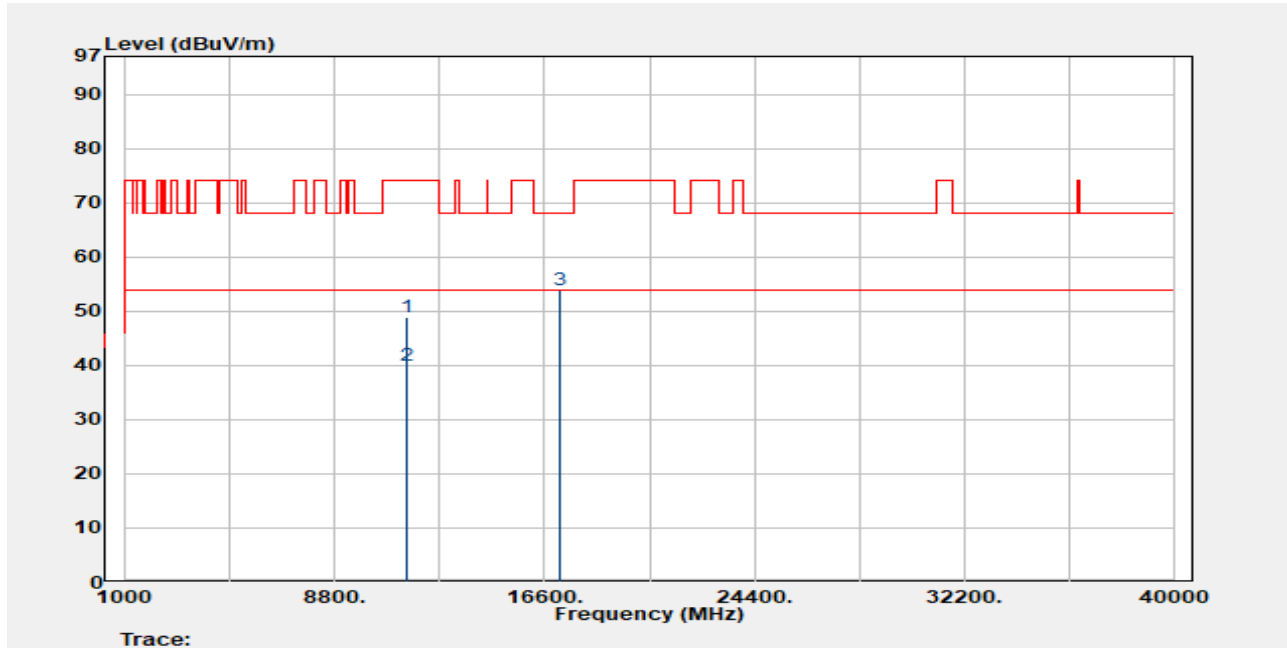
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5720 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11440.000	Peak	40.11	8.76	48.87	74.00	-25.13
11440.000	Average	31.14	8.76	39.90	54.00	-14.10
17160.000	Peak	44.30	9.68	53.98	68.20	-14.22

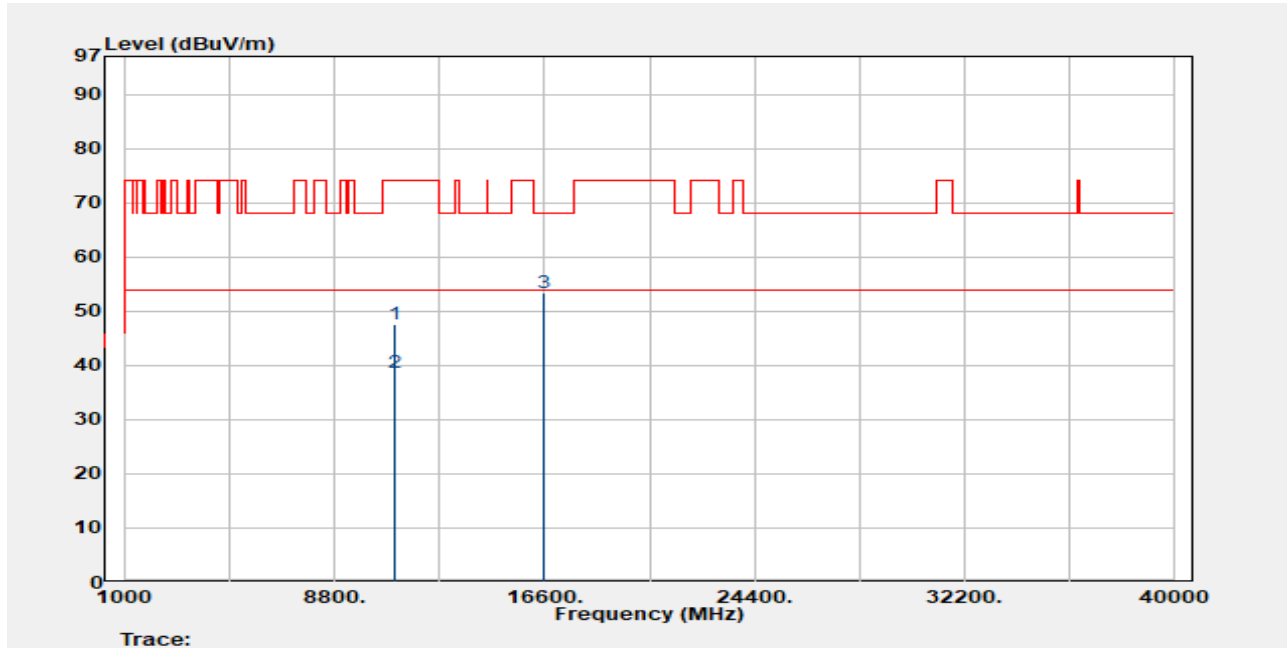
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5510 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11020.000	Peak	39.78	7.89	47.67	74.00	-26.33
11020.000	Average	30.86	7.89	38.75	54.00	-15.25
16530.000	Peak	42.45	10.98	53.43	68.20	-14.77

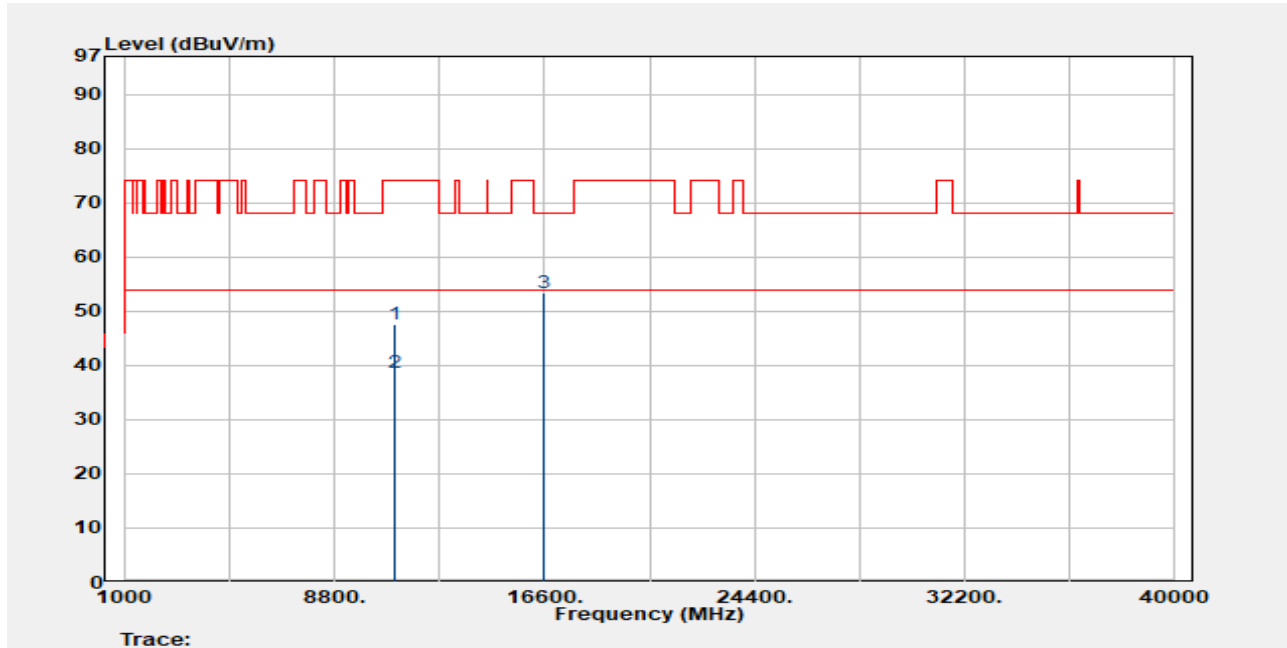
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5510 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11020.000	Peak	39.74	7.89	47.63	74.00	-26.37
11020.000	Average	30.83	7.89	38.72	54.00	-15.28
16530.000	Peak	42.49	10.98	53.47	68.20	-14.73

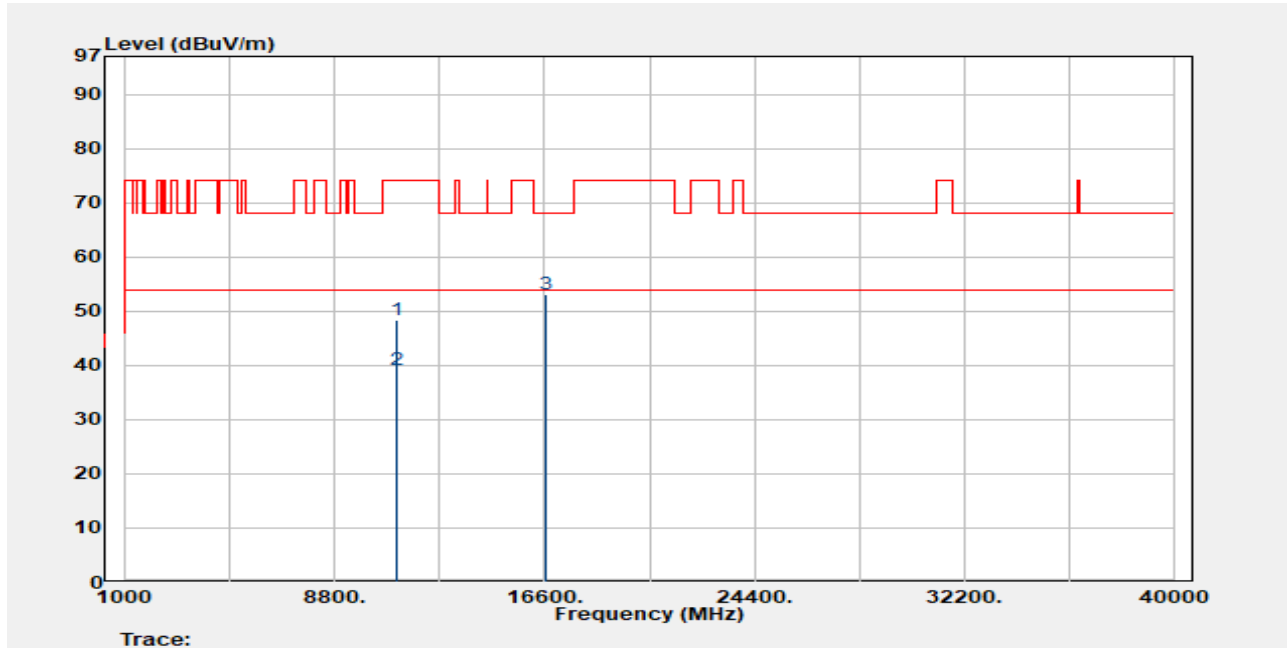
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5550 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11100.000	Peak	39.87	8.42	48.29	74.00	-25.71
11100.000	Average	30.83	8.42	39.25	54.00	-14.75
16650.000	Peak	42.39	10.68	53.07	68.20	-15.13

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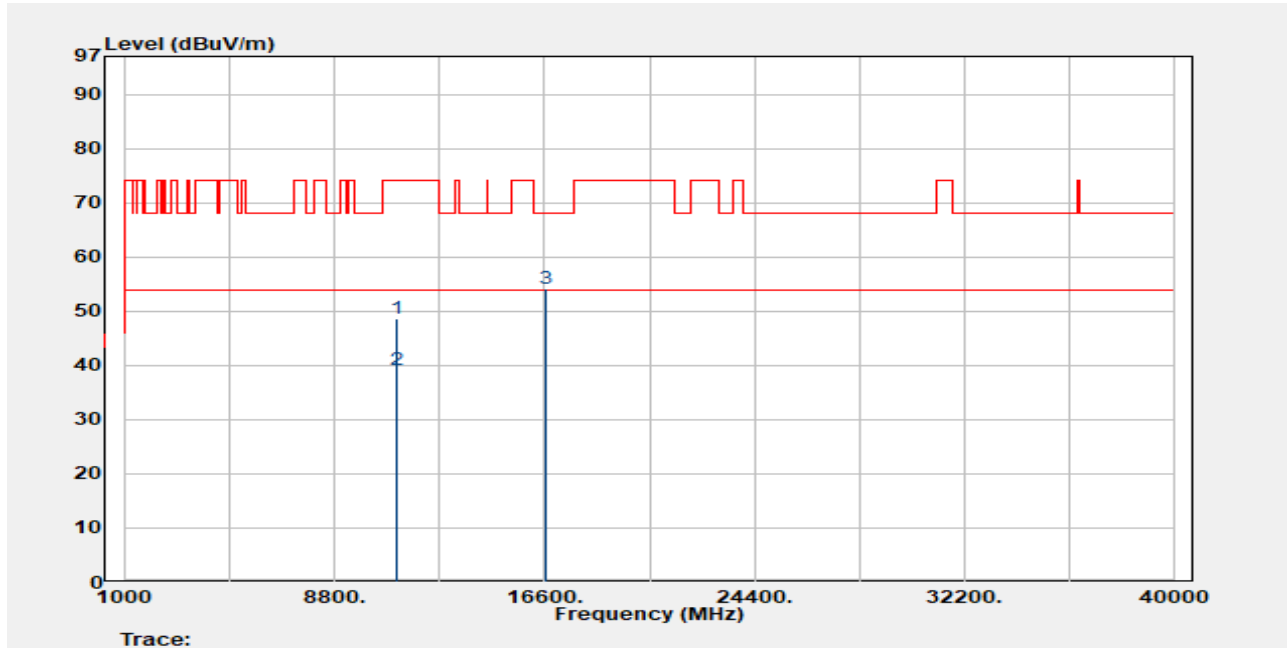
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5550 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11100.000	Peak	40.32	8.42	48.74	74.00	-25.26
11100.000	Average	30.82	8.42	39.24	54.00	-14.76
16650.000	Peak	43.48	10.68	54.15	68.20	-14.05

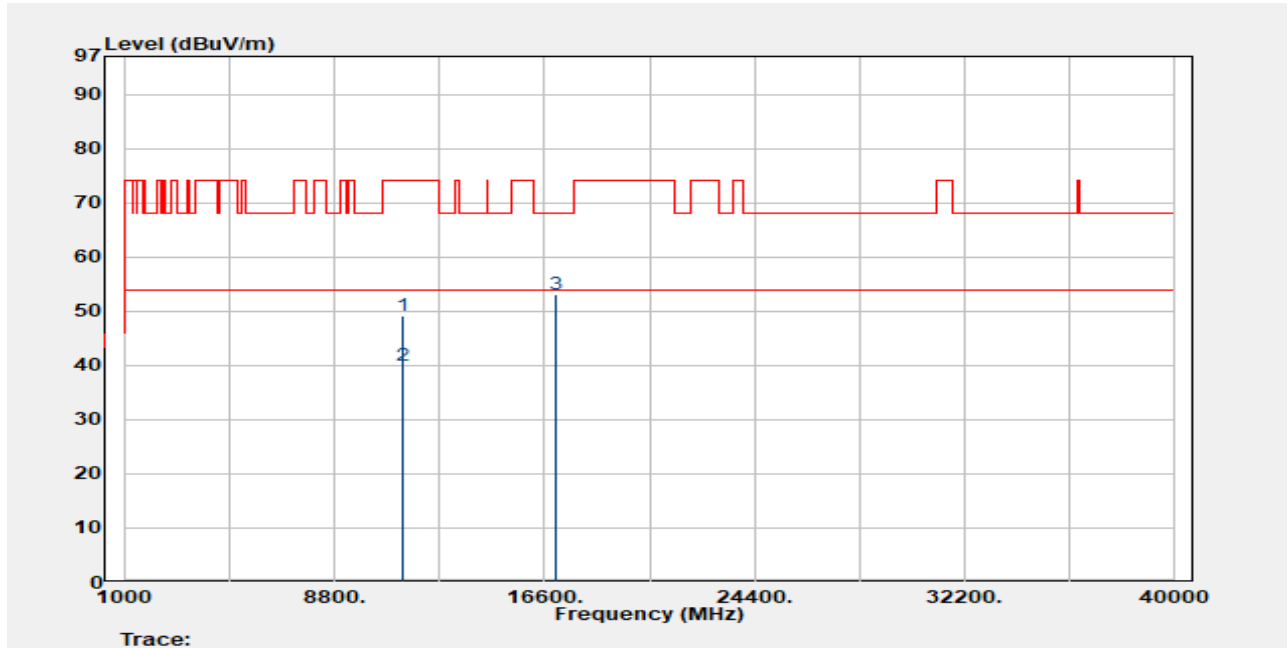
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5670 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11340.000	Peak	40.03	9.15	49.18	74.00	-24.82
11340.000	Average	30.85	9.15	40.00	54.00	-14.00
17010.000	Peak	42.93	10.21	53.14	68.20	-15.06

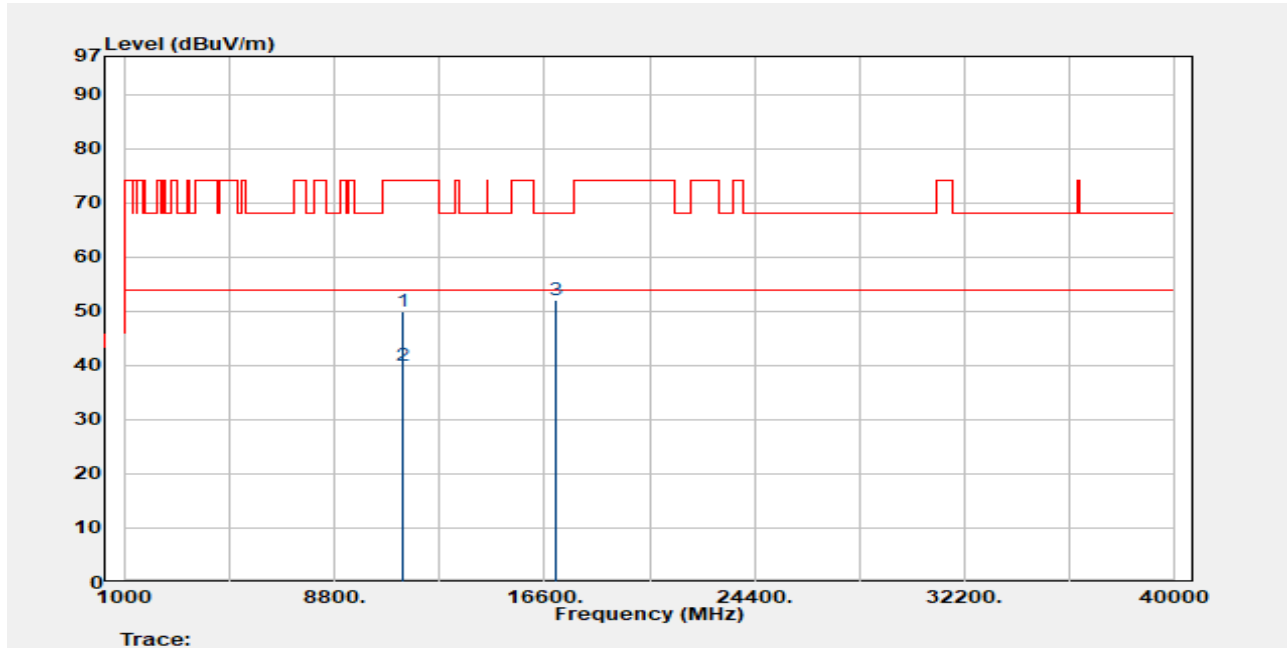
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5670 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11340.000	Peak	40.69	9.15	49.85	74.00	-24.15
11340.000	Average	30.79	9.15	39.94	54.00	-14.06
17010.000	Peak	41.93	10.21	52.14	68.20	-16.06

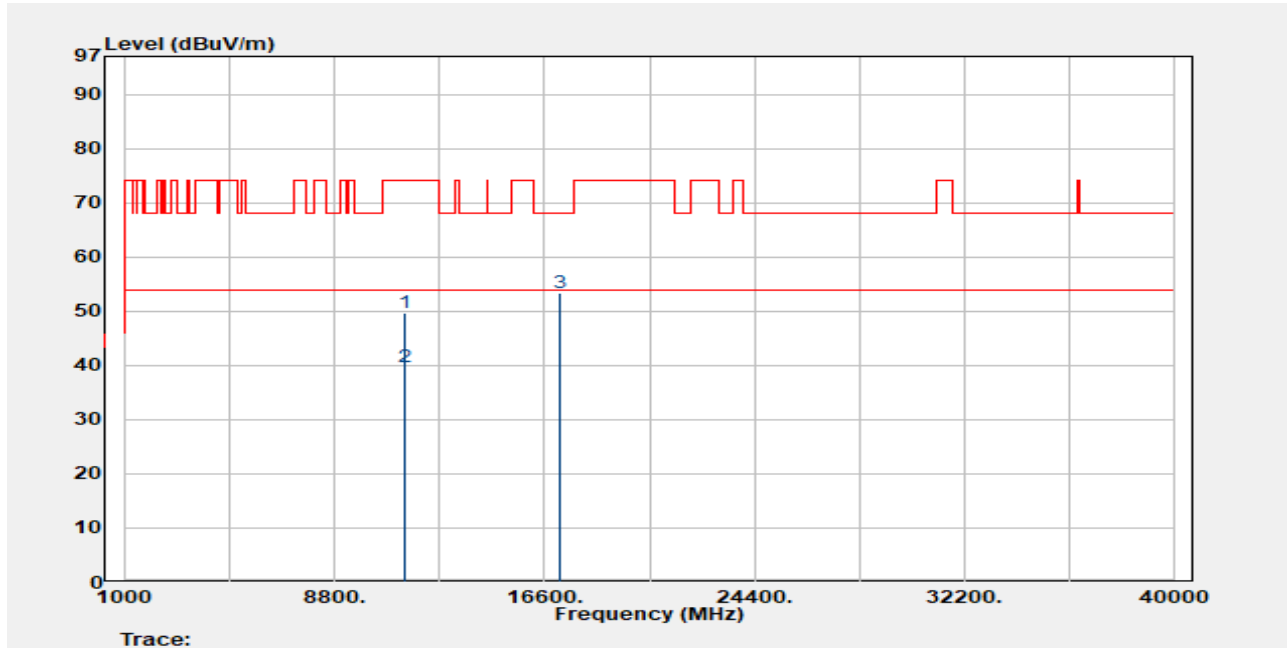
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5710 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11420.000	Peak	40.87	8.73	49.60	74.00	-24.40
11420.000	Average	31.08	8.73	39.81	54.00	-14.19
17130.000	Peak	43.23	10.05	53.27	68.20	-14.93

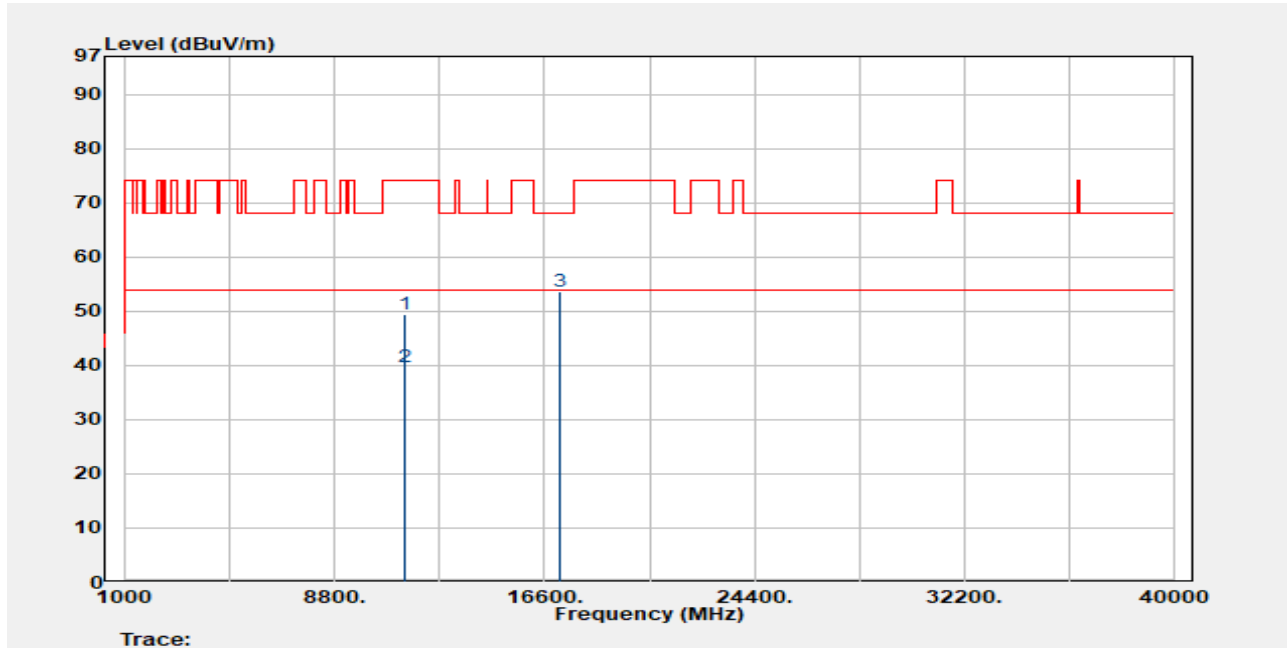
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5710 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11420.000	Peak	40.75	8.73	49.48	74.00	-24.52
11420.000	Average	31.09	8.73	39.82	54.00	-14.18
17130.000	Peak	43.54	10.05	53.58	68.20	-14.62

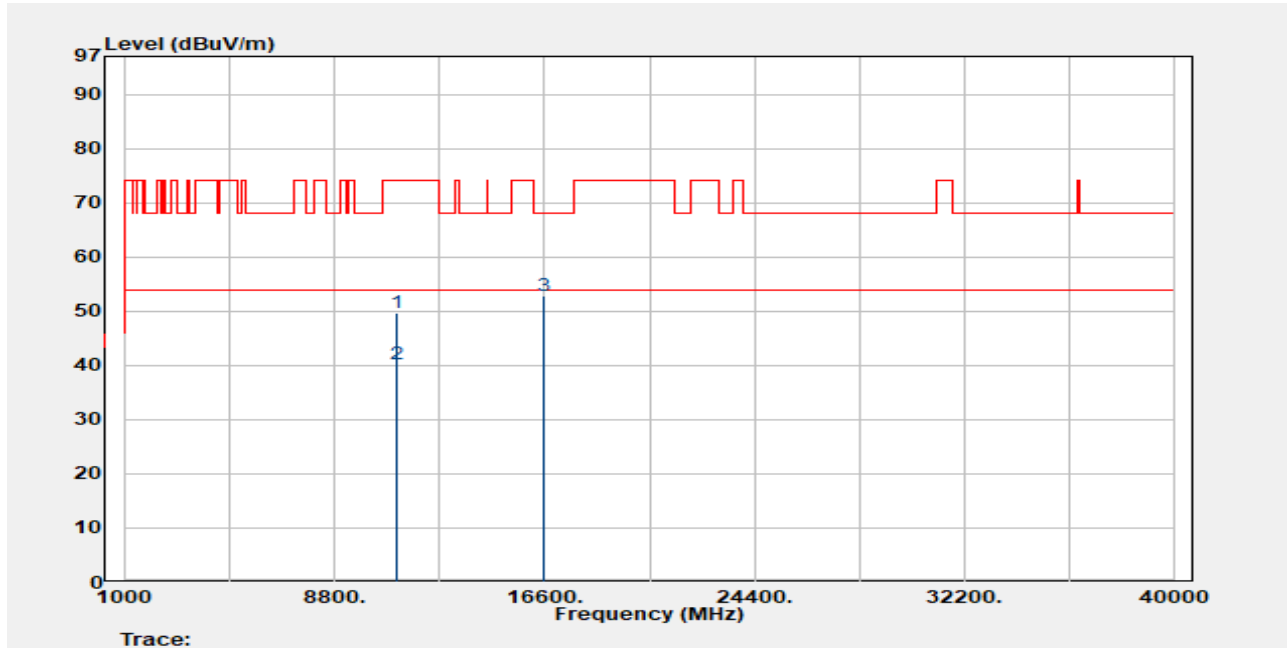
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5530 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11060.000	Peak	40.52	9.03	49.55	74.00	-24.45
11060.000	Average	31.08	9.03	40.11	54.00	-13.89
16590.000	Peak	42.02	10.90	52.93	68.20	-15.27

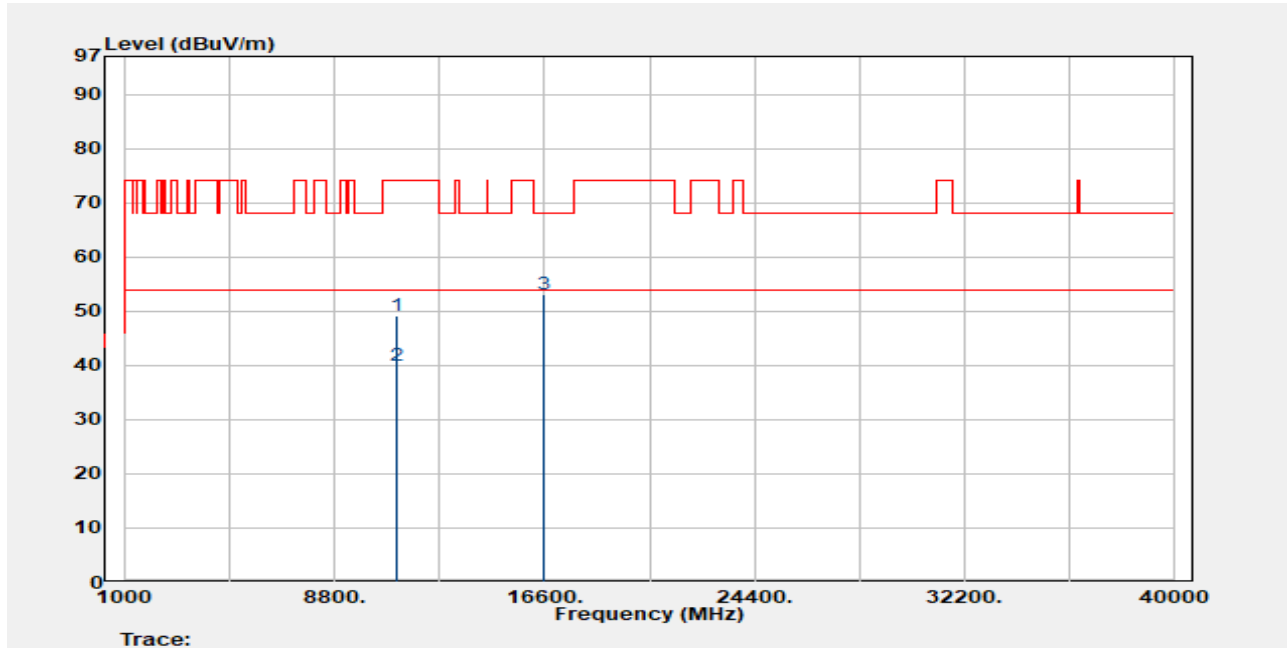
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5530 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11060.000	Peak	40.09	9.03	49.12	74.00	-24.88
11060.000	Average	31.02	9.03	40.05	54.00	-13.95
16590.000	Peak	42.31	10.90	53.22	68.20	-14.98

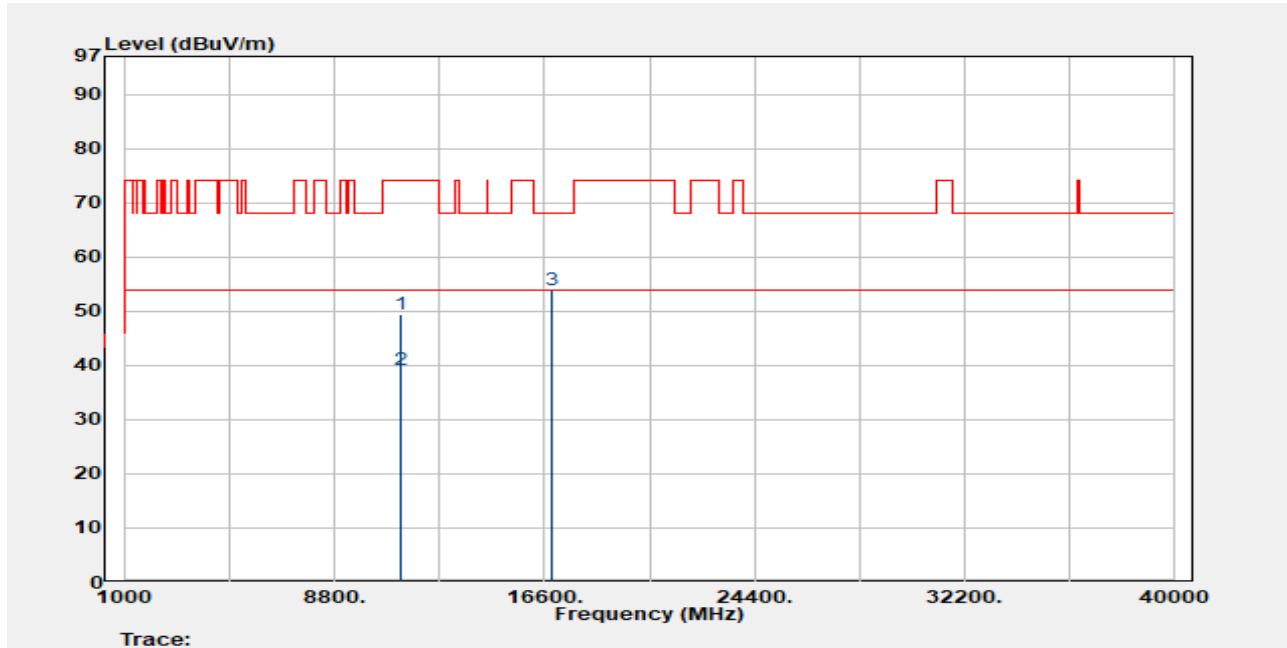
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5610 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11220.000	Peak	40.91	8.50	49.42	74.00	-24.58
11220.000	Average	30.75	8.50	39.25	54.00	-14.75
16830.000	Peak	43.64	10.32	53.96	68.20	-14.24

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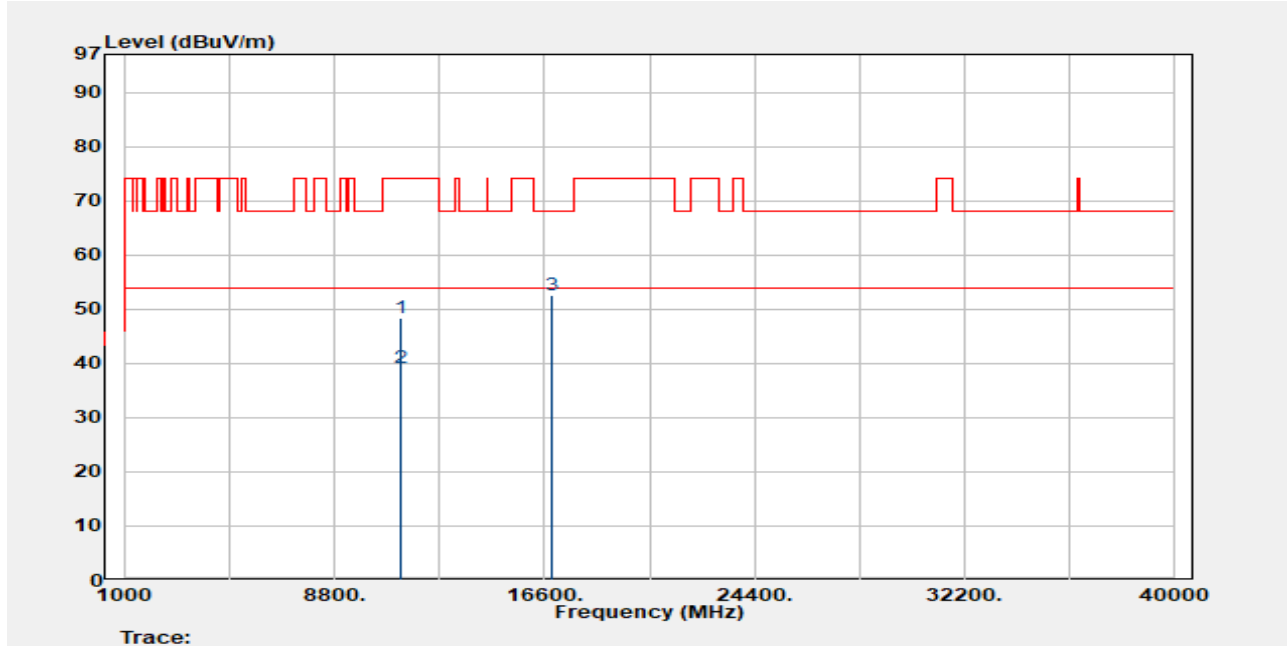
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5610 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11220.000	Peak	39.81	8.50	48.32	74.00	-25.68
11220.000	Average	30.77	8.50	39.27	54.00	-14.73
16830.000	Peak	42.33	10.32	52.64	68.20	-15.56

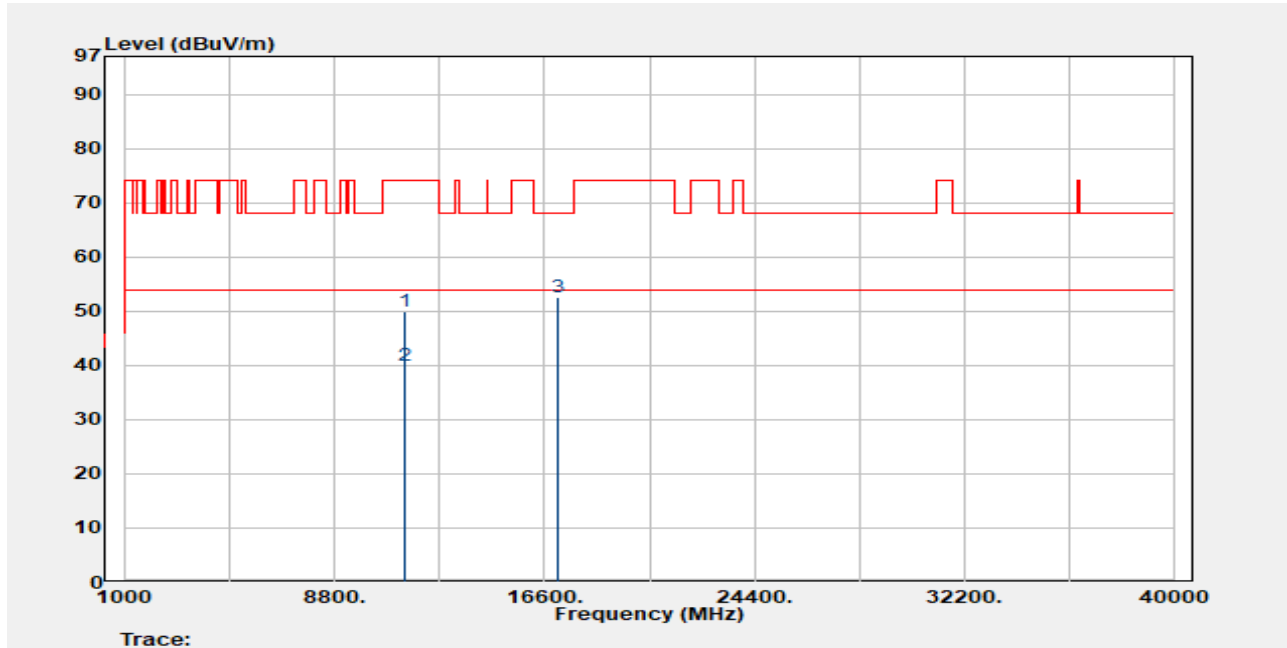
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5690 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11380.000	Peak	41.20	8.87	50.07	74.00	-23.93
11380.000	Average	31.16	8.87	40.03	54.00	-13.97
17070.000	Peak	42.81	9.77	52.59	68.20	-15.61

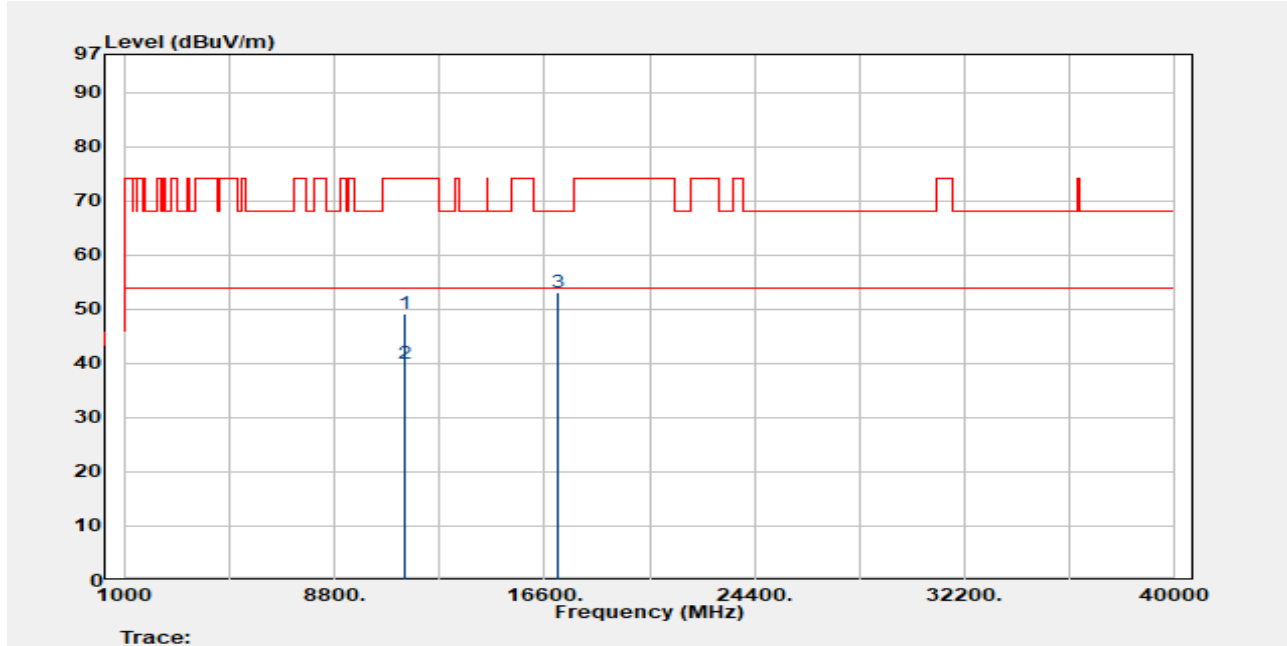
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5690 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11380.000	Peak	40.40	8.87	49.27	74.00	-24.73
11380.000	Average	31.18	8.87	40.05	54.00	-13.95
17070.000	Peak	43.29	9.77	53.06	68.20	-15.14

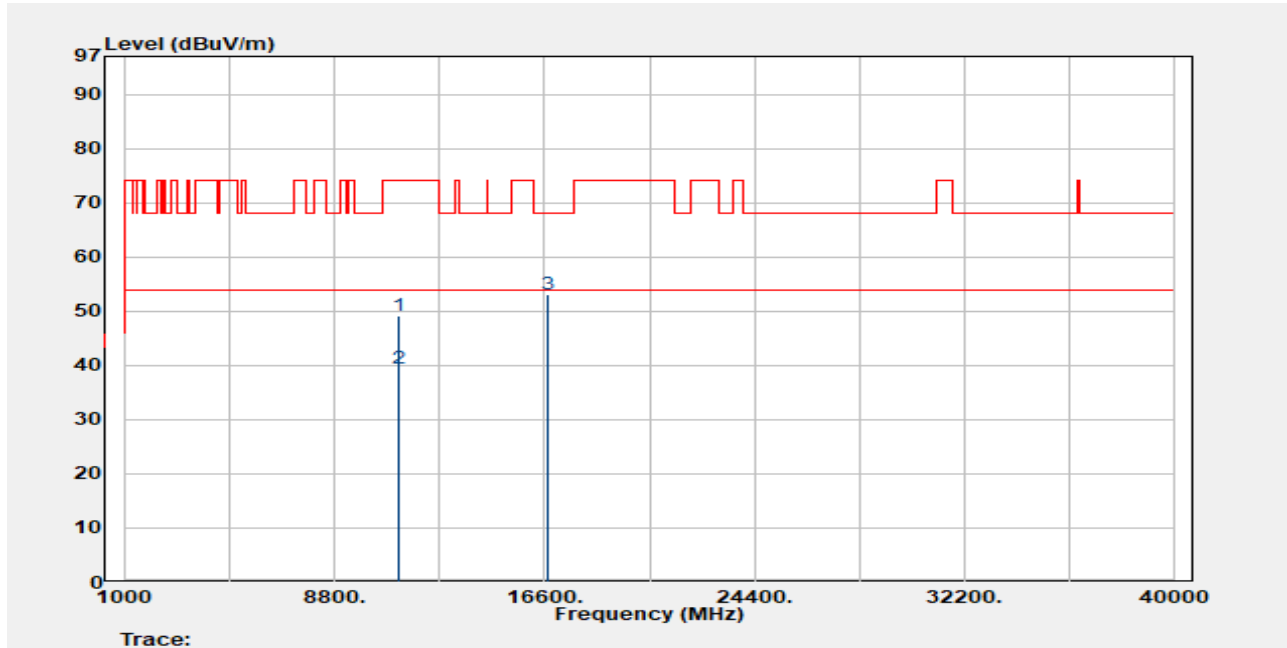
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax160 RU FULL  
 Test Frequency :5570 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11140.000	Peak	40.81	8.47	49.28	74.00	-24.72
11140.000	Average	31.08	8.47	39.55	54.00	-14.45
16710.000	Peak	42.72	10.37	53.08	68.20	-15.12

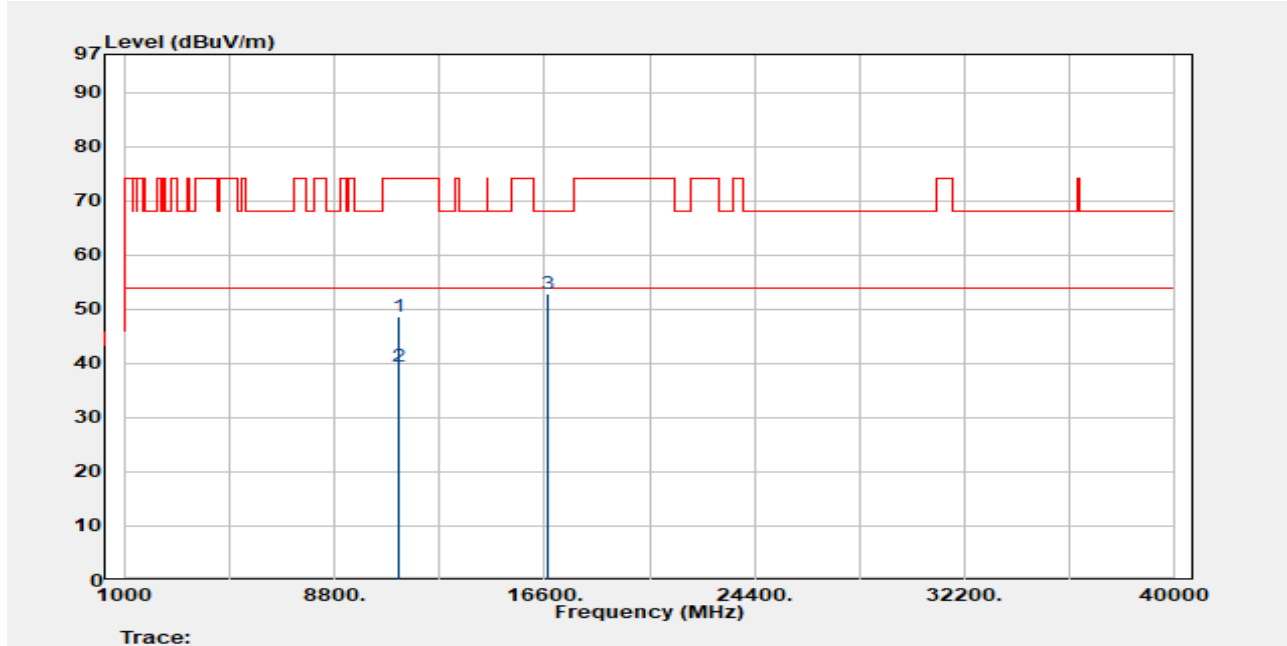
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax160 RU FULL  
 Test Frequency :5570 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11140.000	Peak	40.17	8.47	48.64	74.00	-25.36
11140.000	Average	31.09	8.47	39.56	54.00	-14.44
16710.000	Peak	42.50	10.37	52.87	68.20	-15.33

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

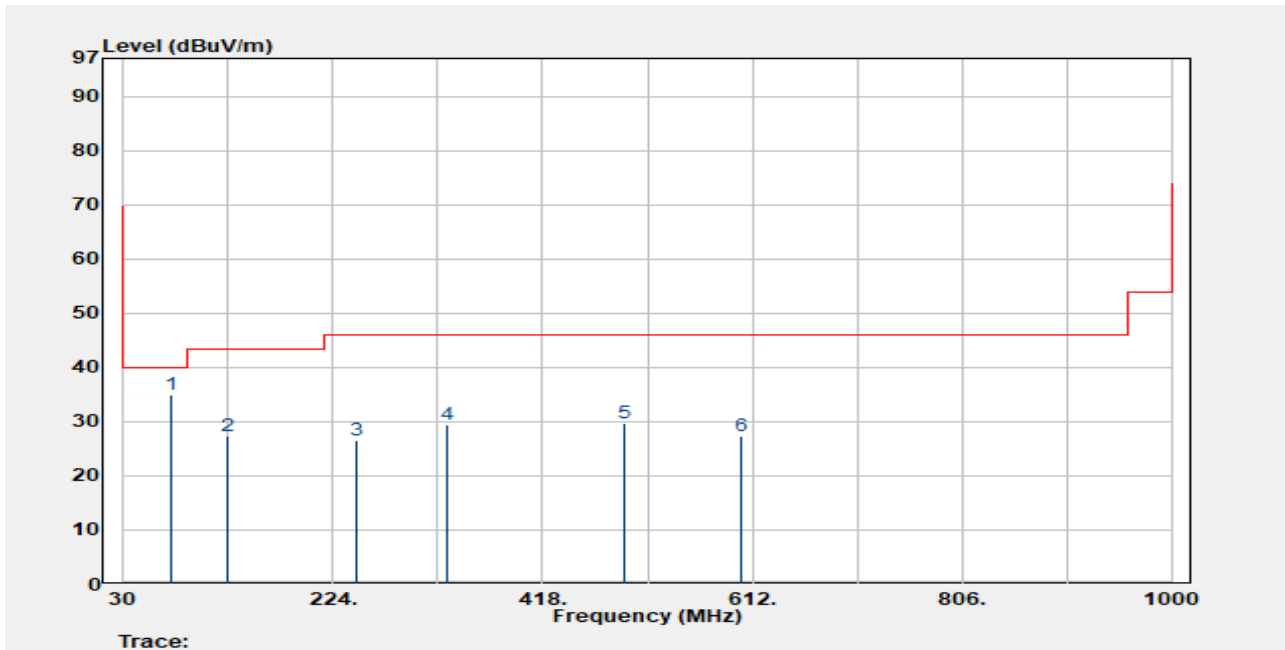
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## Spot Check

Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
74.620	QP	50.88	-15.83	35.05	40.00	-4.95
127.000	Peak	42.10	-14.65	27.46	43.50	-16.04
245.340	Peak	40.06	-13.63	26.43	46.00	-19.57
328.760	Peak	40.86	-11.29	29.56	46.00	-16.44
493.660	Peak	37.19	-7.53	29.66	46.00	-16.34
602.300	Peak	31.87	-4.51	27.36	46.00	-18.64

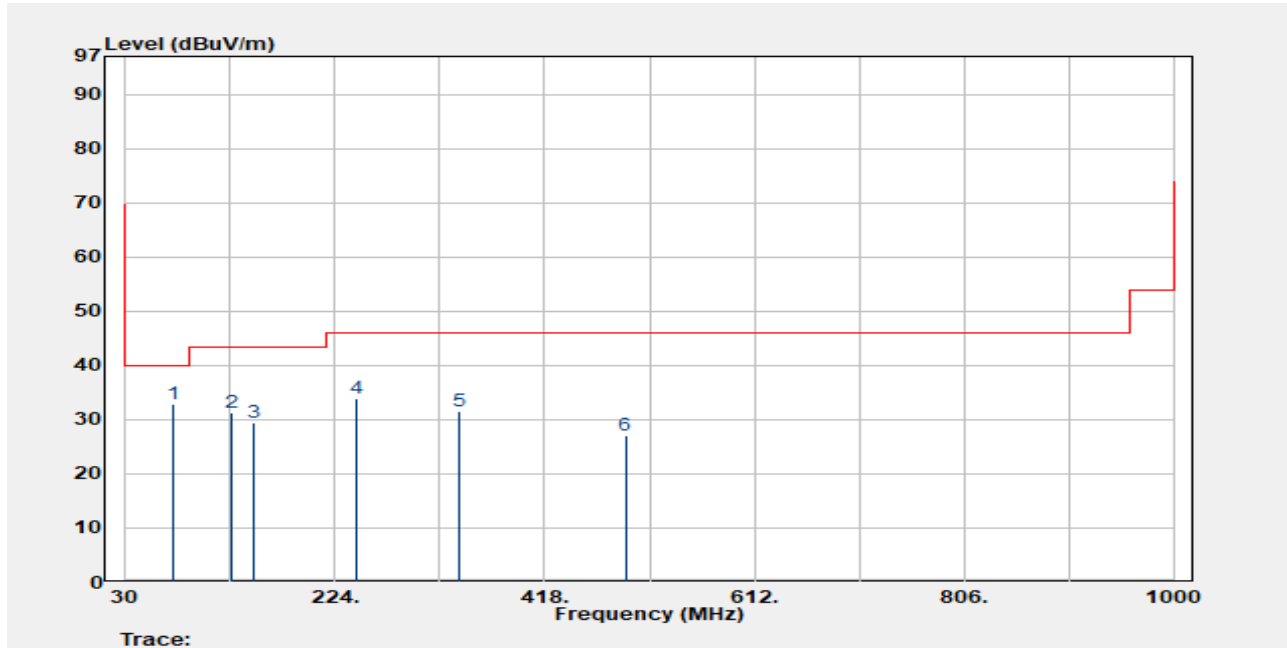
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
74.620	Peak	48.76	-15.83	32.93	40.00	-7.07
127.970	Peak	45.51	-14.36	31.15	43.50	-12.35
149.310	Peak	41.89	-12.33	29.56	43.50	-13.94
244.370	Peak	47.60	-13.67	33.93	46.00	-12.07
339.430	Peak	42.73	-11.09	31.64	46.00	-14.36
492.690	Peak	34.60	-7.50	27.10	46.00	-18.90

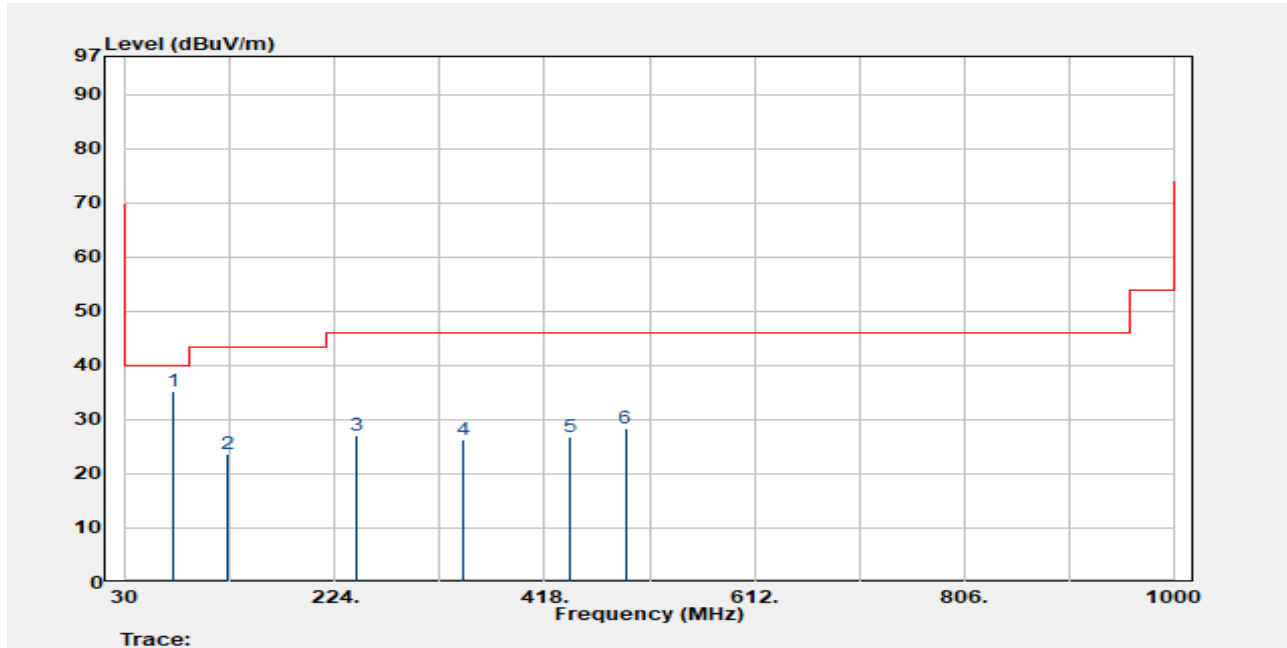
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
74.620	QP	51.03	-15.83	35.20	40.00	-4.80
124.090	Peak	38.68	-14.92	23.76	43.50	-19.74
243.400	Peak	40.79	-13.73	27.07	46.00	-18.93
343.310	Peak	37.28	-10.97	26.31	46.00	-19.69
442.250	Peak	34.89	-8.11	26.78	46.00	-19.22
492.690	Peak	35.91	-7.50	28.41	46.00	-17.59

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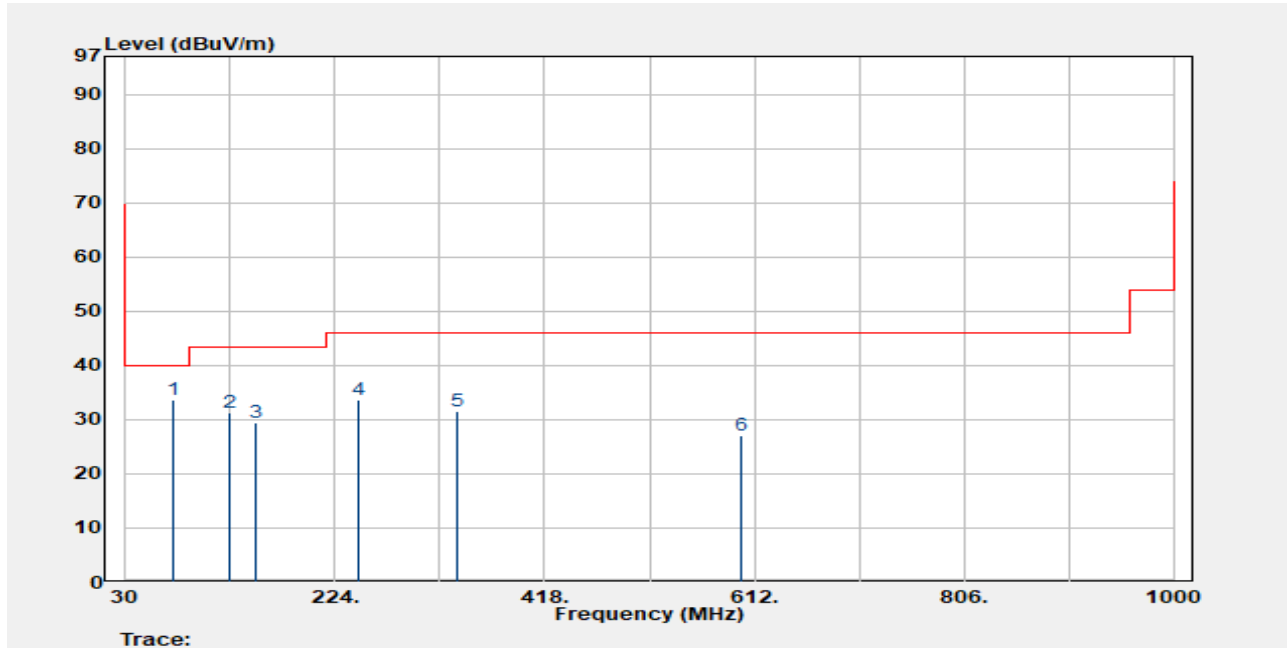
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
74.620	Peak	49.36	-15.83	33.53	40.00	-6.47
127.000	Peak	45.91	-14.65	31.26	43.50	-12.24
150.280	Peak	41.77	-12.30	29.47	43.50	-14.03
246.310	Peak	47.33	-13.63	33.70	46.00	-12.30
336.520	Peak	42.54	-10.97	31.56	46.00	-14.44
600.360	Peak	31.58	-4.38	27.20	46.00	-18.80

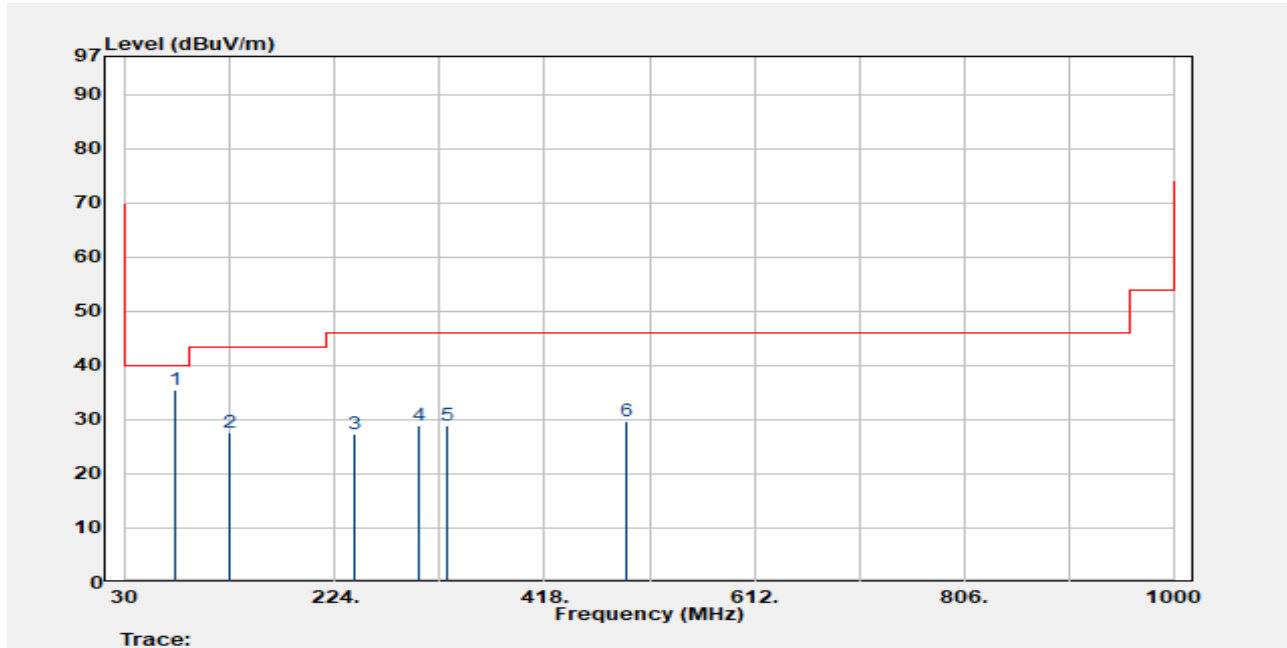
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
75.590	QP	51.36	-15.99	35.37	40.00	-4.63
126.030	Peak	42.18	-14.54	27.64	43.50	-15.86
241.460	Peak	41.07	-13.84	27.22	46.00	-18.78
301.600	Peak	41.22	-12.21	29.01	46.00	-16.99
327.790	Peak	40.26	-11.31	28.95	46.00	-17.05
493.660	Peak	37.17	-7.53	29.65	46.00	-16.35

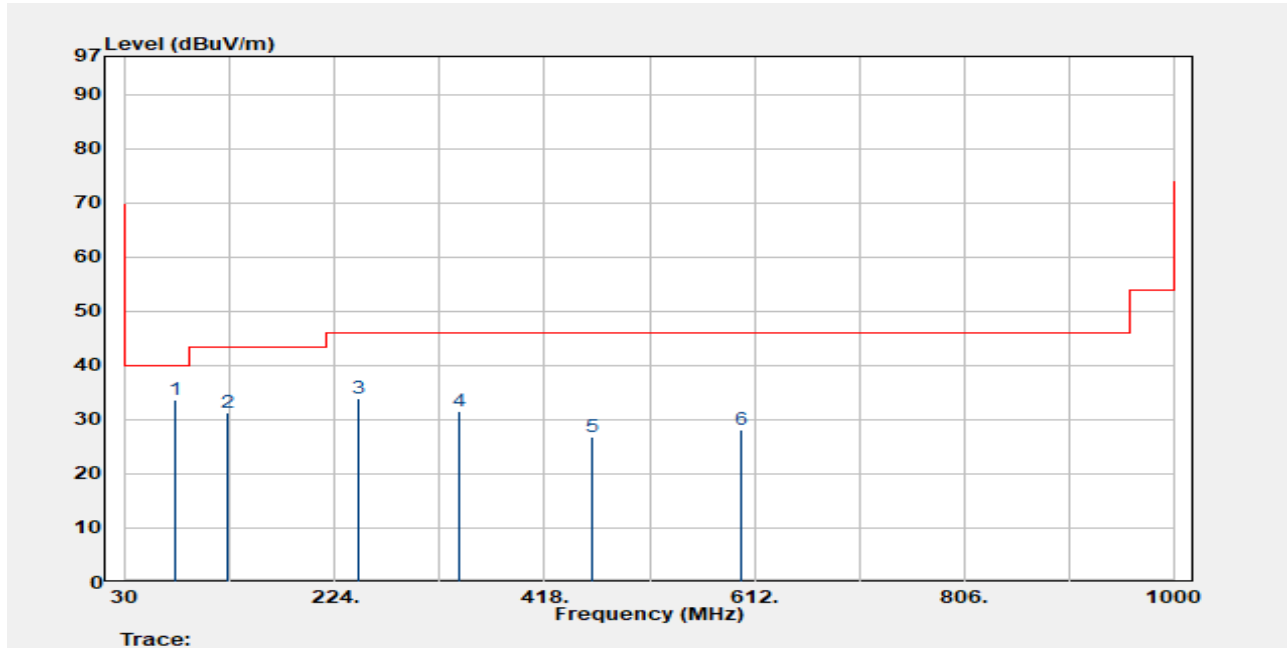
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
75.590	Peak	49.67	-15.99	33.68	40.00	-6.32
125.060	Peak	46.00	-14.63	31.37	43.50	-12.13
245.340	Peak	47.66	-13.63	34.03	46.00	-11.97
339.430	Peak	42.53	-11.09	31.44	46.00	-14.56
462.620	Peak	34.30	-7.59	26.71	46.00	-19.29
600.360	Peak	32.44	-4.38	28.05	46.00	-17.95

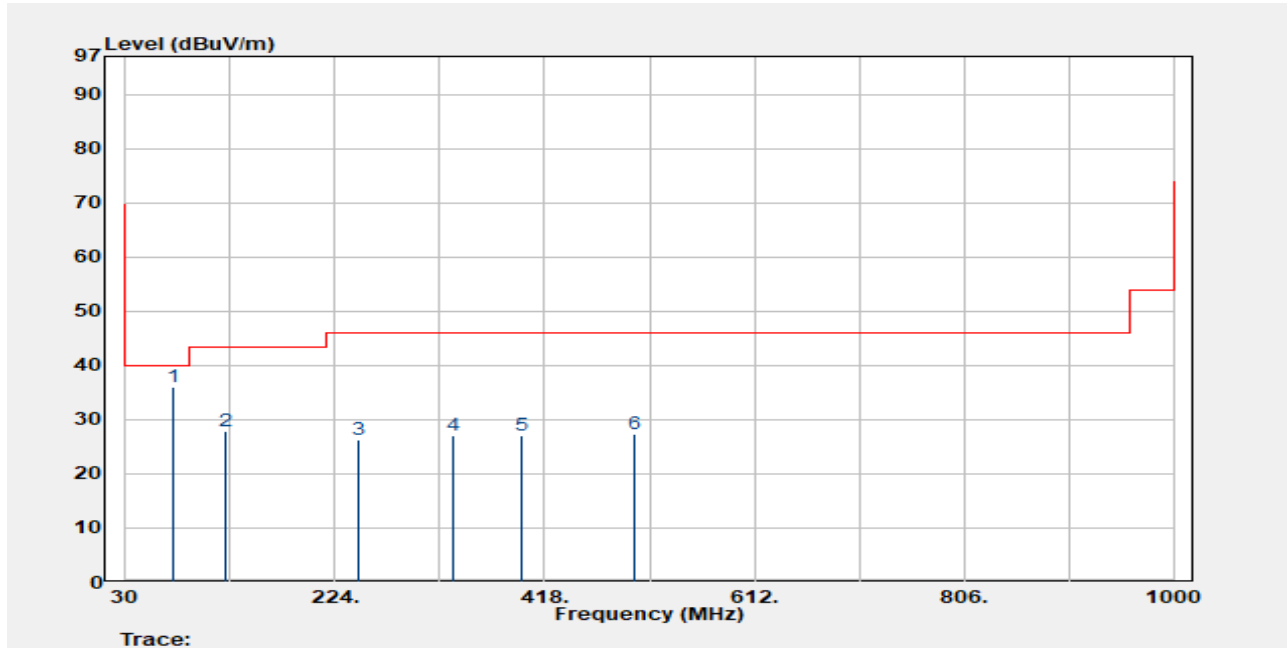
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5865 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
73.650	QP	51.58	-15.64	35.94	40.00	-4.06
123.120	Peak	42.60	-14.79	27.80	43.50	-15.70
246.310	Peak	39.98	-13.63	26.35	46.00	-19.65
332.640	Peak	38.06	-11.08	26.98	46.00	-19.02
396.660	Peak	36.43	-9.44	26.99	46.00	-19.01
501.420	Peak	34.58	-7.37	27.21	46.00	-18.79

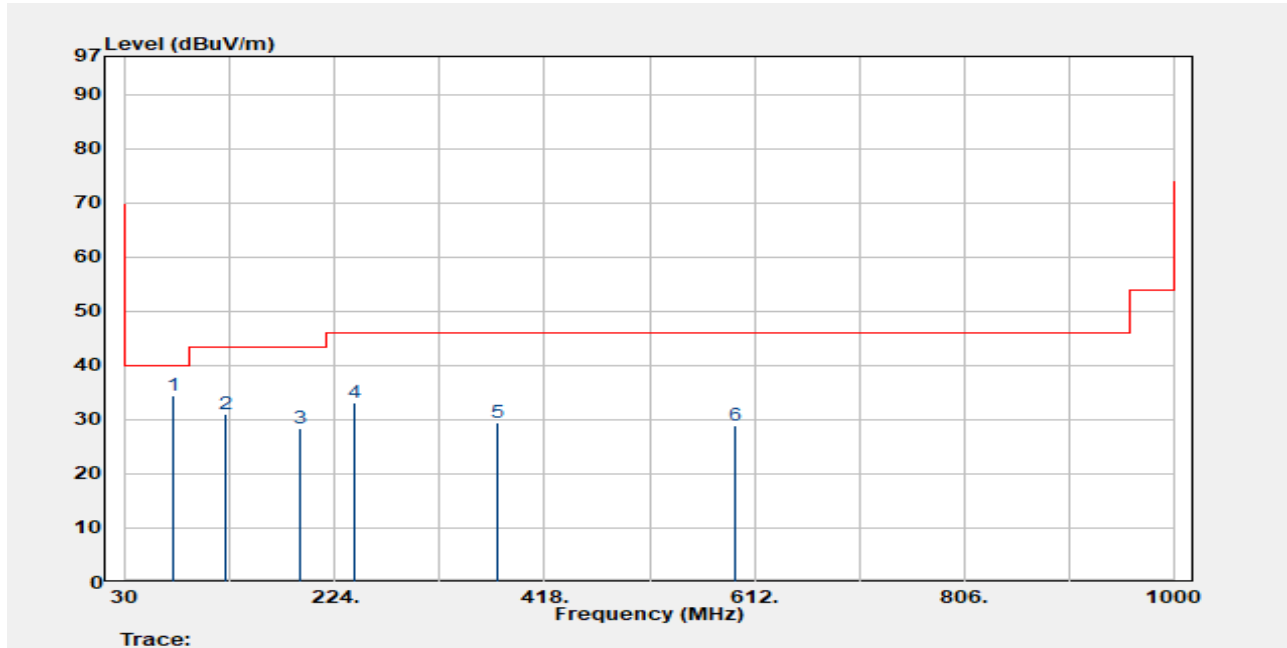
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5865 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
73.650	Peak	50.00	-15.64	34.36	40.00	-5.64
122.150	Peak	45.89	-14.96	30.93	43.50	-12.57
191.020	Peak	43.91	-15.43	28.48	43.50	-15.02
242.430	Peak	46.78	-13.78	32.99	46.00	-13.01
373.380	Peak	39.44	-10.12	29.31	46.00	-16.69
594.540	Peak	33.91	-5.09	28.82	46.00	-17.18

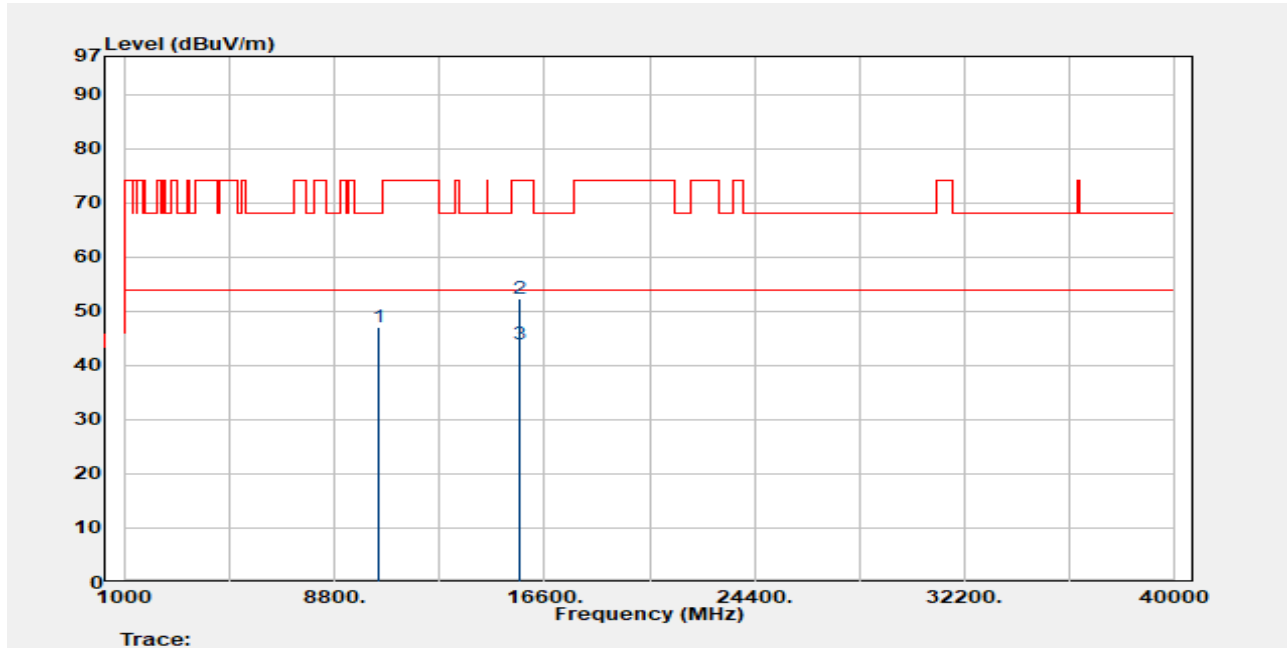
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10440.000	Peak	40.01	7.08	47.09	68.20	-21.11
15660.000	Peak	42.19	10.08	52.27	74.00	-21.73
15660.000	Average	33.79	10.08	43.87	54.00	-10.13

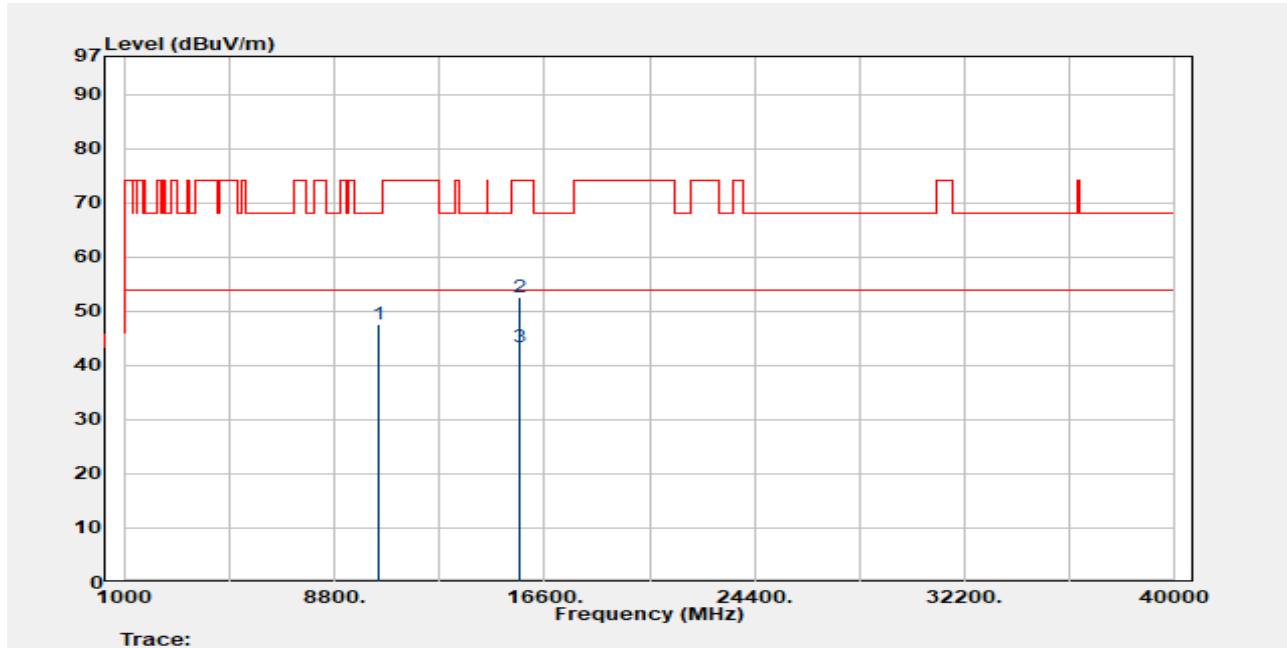
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10440.000	Peak	40.37	7.08	47.45	68.20	-20.75
15660.000	Peak	42.62	10.08	52.70	74.00	-21.30
15660.000	Average	33.26	10.08	43.34	54.00	-10.66

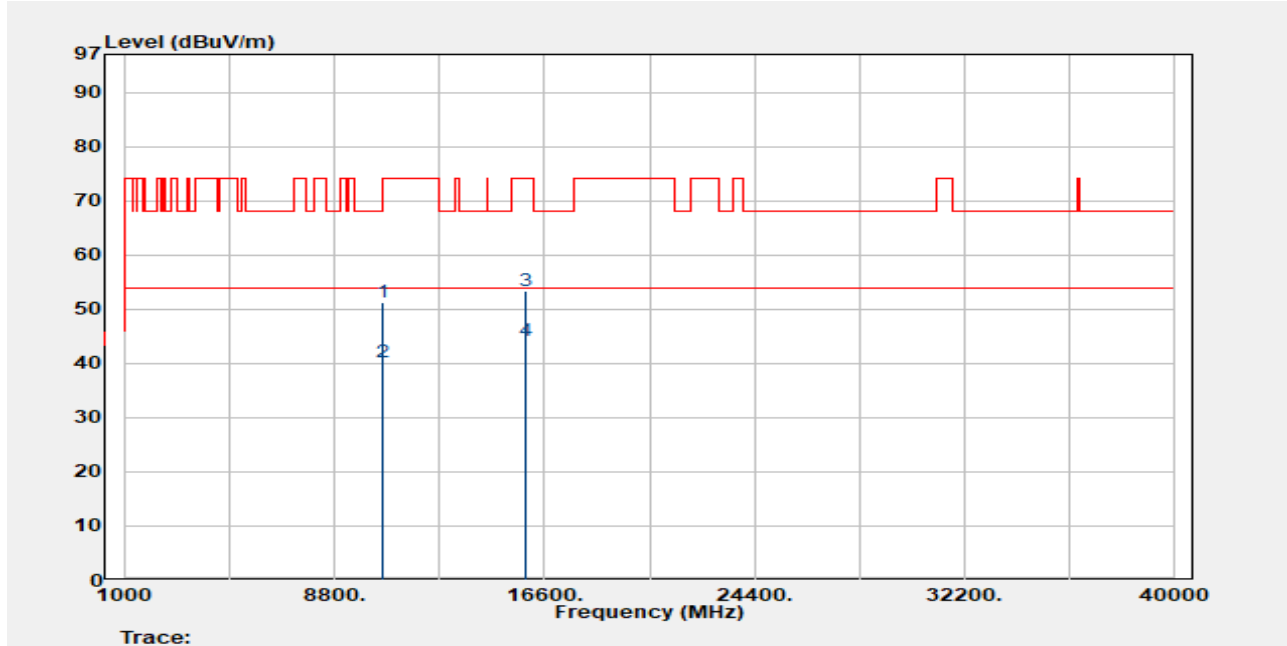
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10600.000	Peak	45.06	6.23	51.29	74.00	-22.71
10600.000	Average	33.87	6.23	40.10	54.00	-13.90
15900.000	Peak	42.41	11.08	53.48	74.00	-20.52
15900.000	Average	33.18	11.08	44.26	54.00	-9.74

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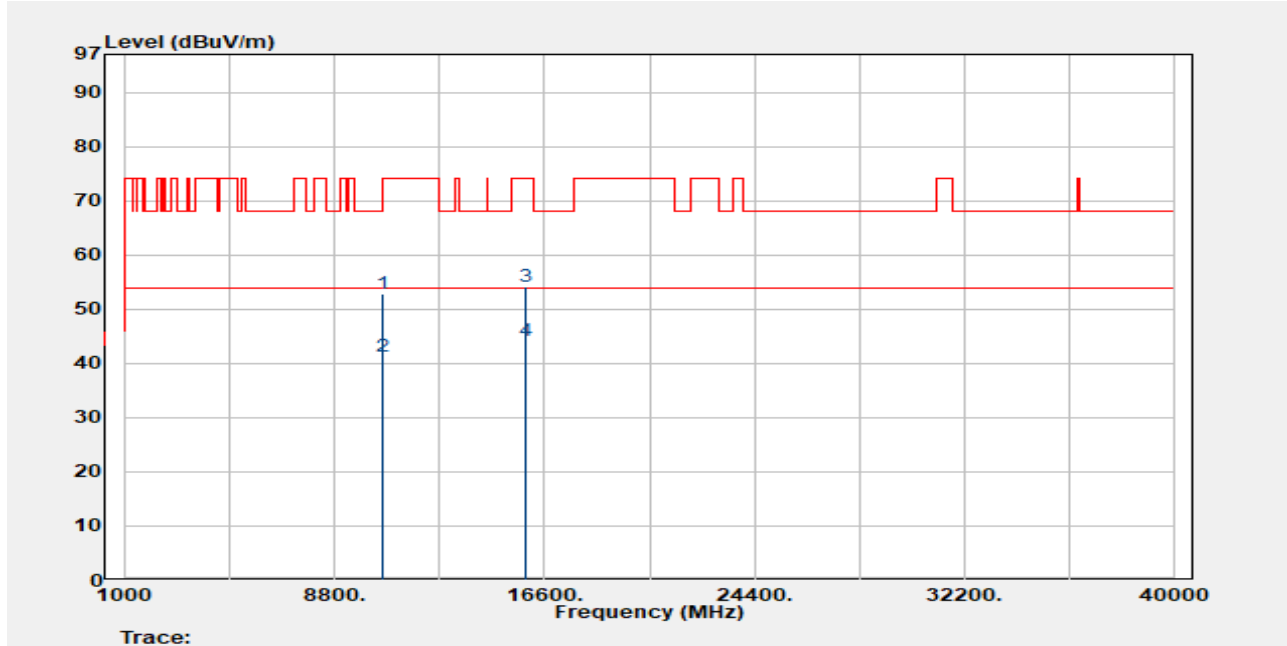
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10600.000	Peak	46.66	6.23	52.89	74.00	-21.11
10600.000	Average	35.09	6.23	41.32	54.00	-12.68
15900.000	Peak	42.98	11.08	54.06	74.00	-19.94
15900.000	Average	33.15	11.08	44.23	54.00	-9.77

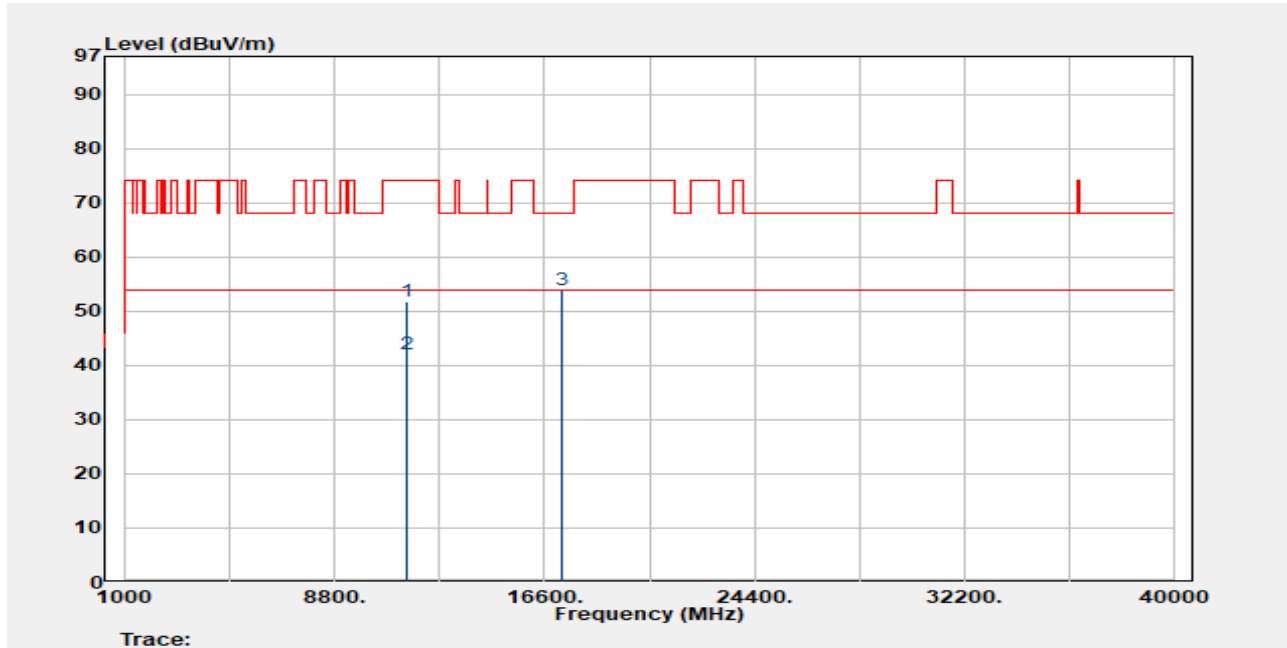
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11490.000	Peak	41.44	10.32	51.76	74.00	-22.24
11490.000	Average	31.62	10.32	41.94	54.00	-12.06
17235.000	Peak	43.93	9.98	53.91	68.20	-14.29

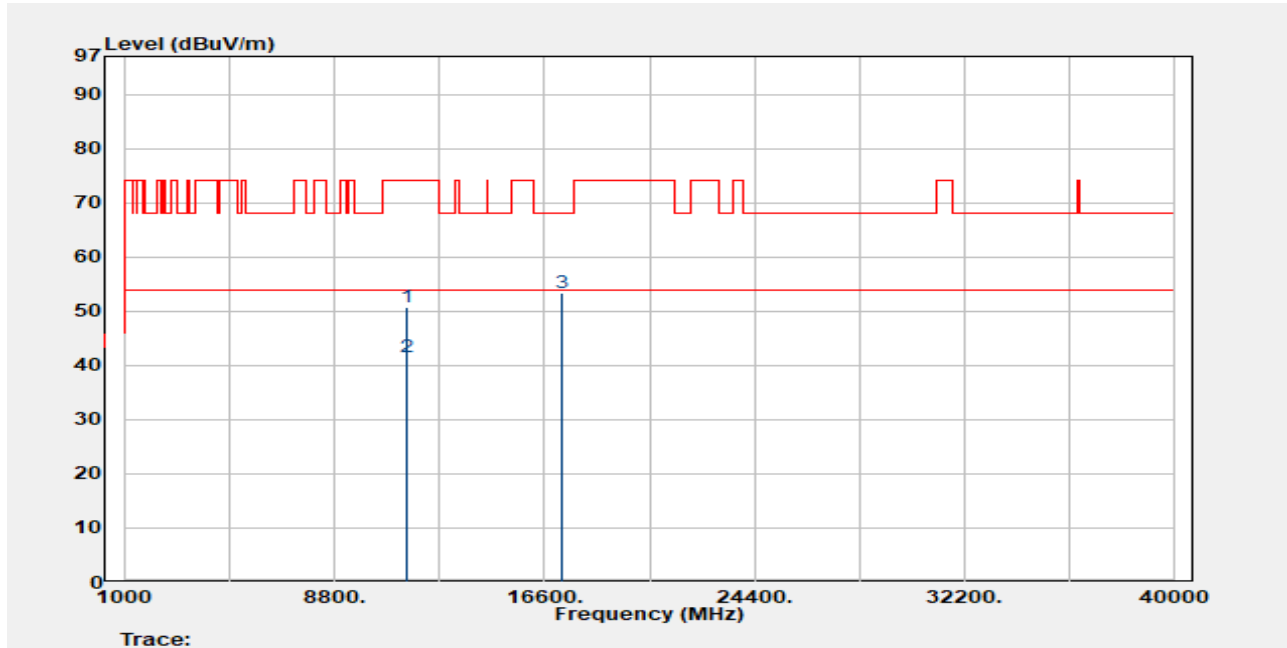
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11490.000	Peak	40.50	10.32	50.82	74.00	-23.18
11490.000	Average	31.12	10.32	41.44	54.00	-12.56
17235.000	Peak	43.40	9.98	53.38	68.20	-14.82

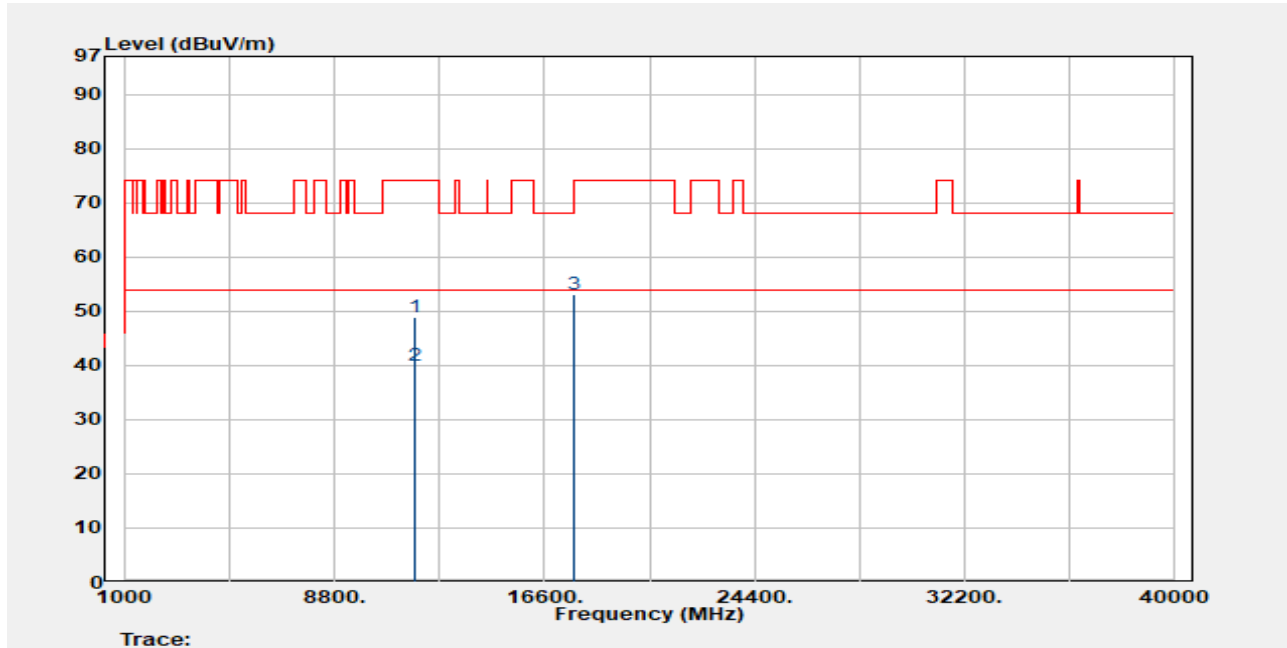
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5885 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11770.000	Peak	40.20	8.72	48.92	74.00	-25.08
11770.000	Average	31.27	8.72	39.99	54.00	-14.01
17655.000	Peak	44.40	8.63	53.03	68.20	-15.17

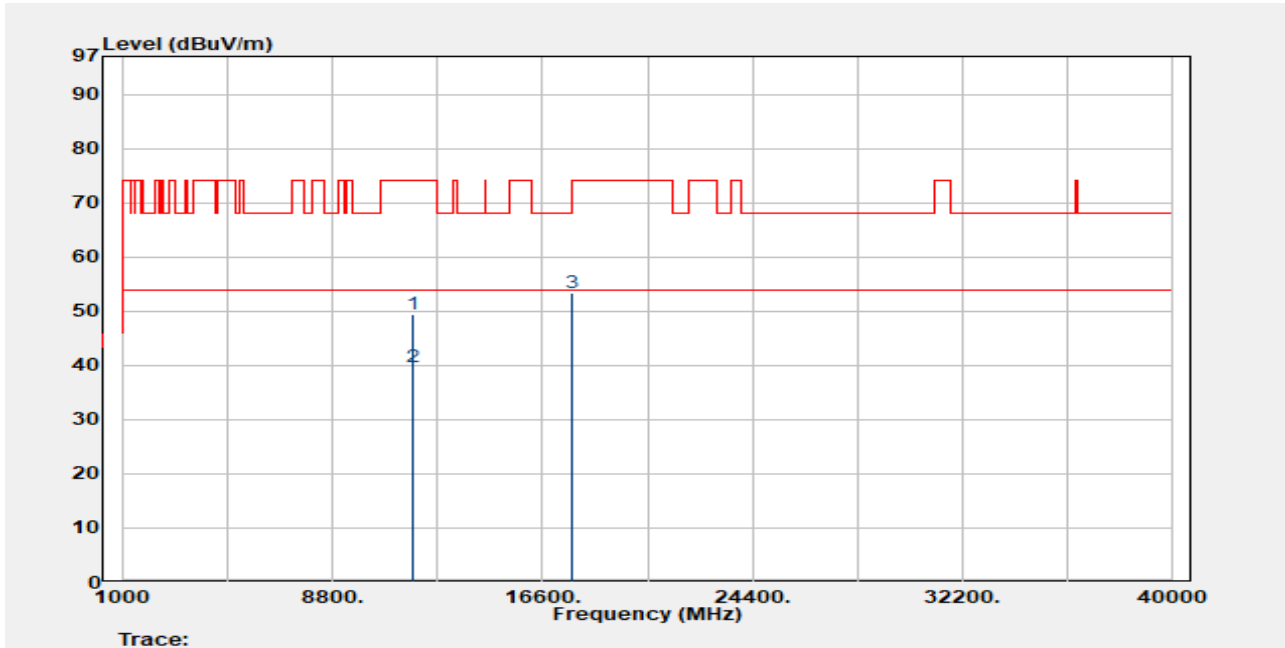
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Report Number :TERF2304001050ER  
 Operation Mode :802.11a  
 Test Frequency :5885 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11770.000	Peak	40.63	8.72	49.35	74.00	-24.65
11770.000	Average	31.06	8.72	39.78	54.00	-14.22
17655.000	Peak	44.64	8.63	53.27	68.20	-14.93

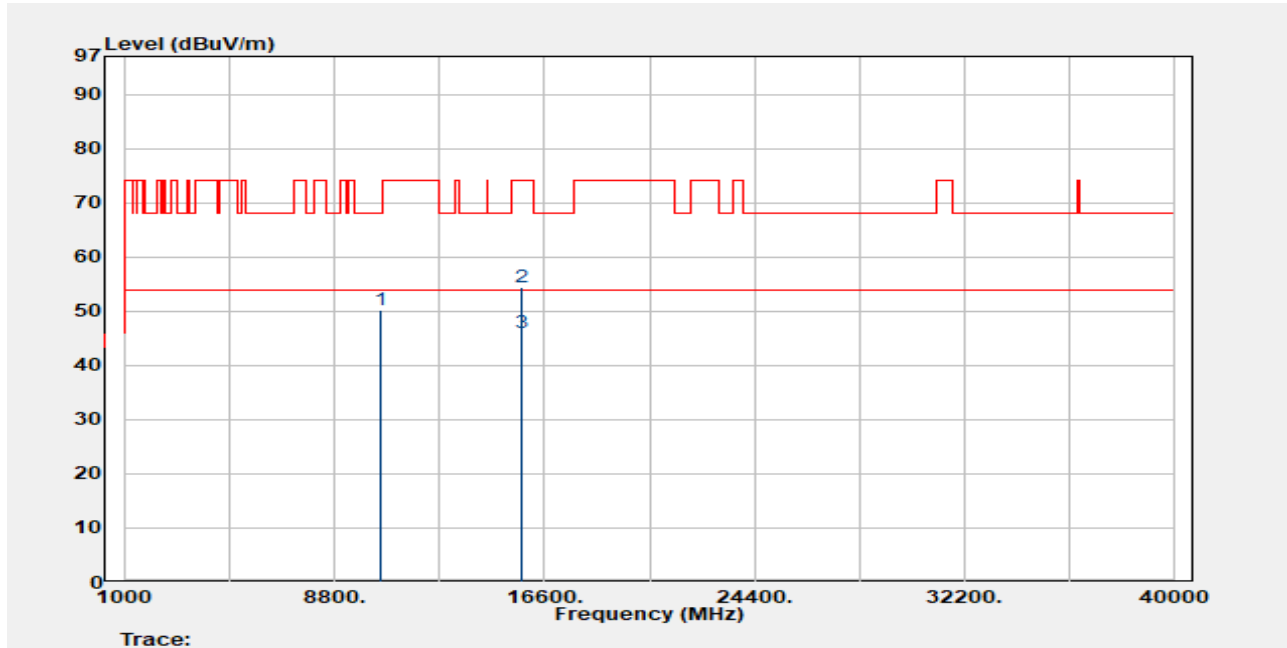
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10480.000	Peak	42.39	7.77	50.16	68.20	-18.04
15720.000	Peak	43.87	10.66	54.53	74.00	-19.47
15720.000	Average	35.41	10.66	46.07	54.00	-7.93

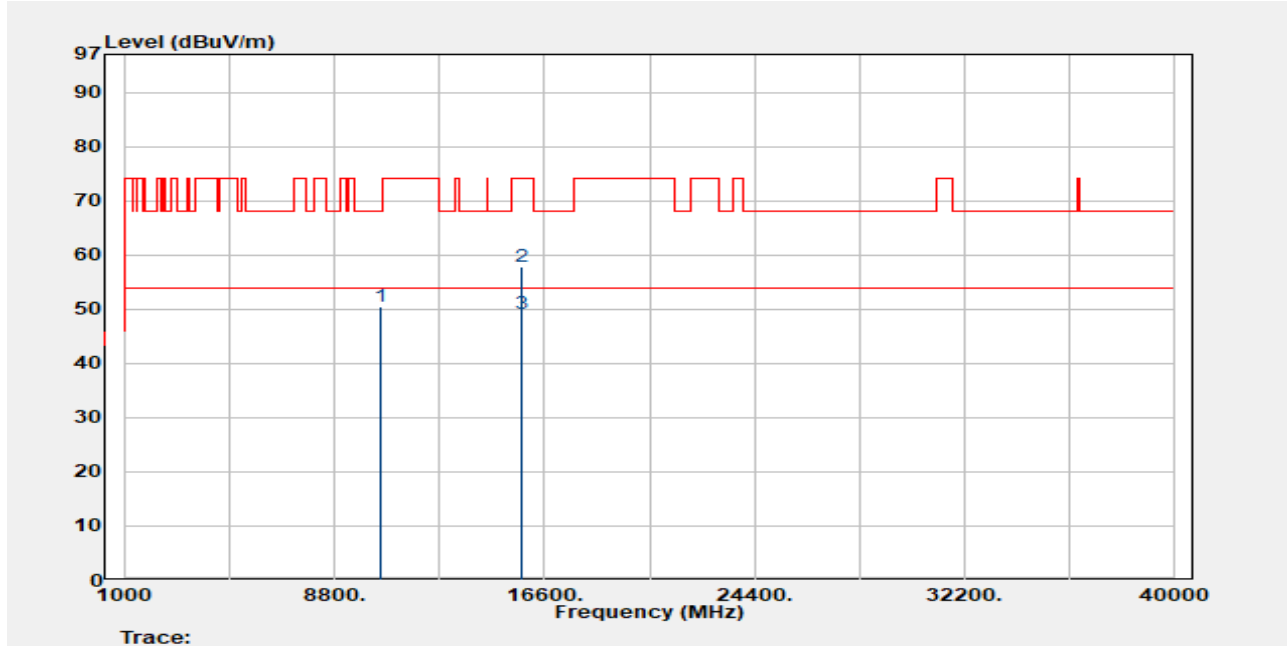
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10480.000	Peak	42.64	7.77	50.41	68.20	-17.79
15720.000	Peak	47.08	10.66	57.74	74.00	-16.26
15720.000	Average	38.38	10.66	49.04	54.00	-4.96

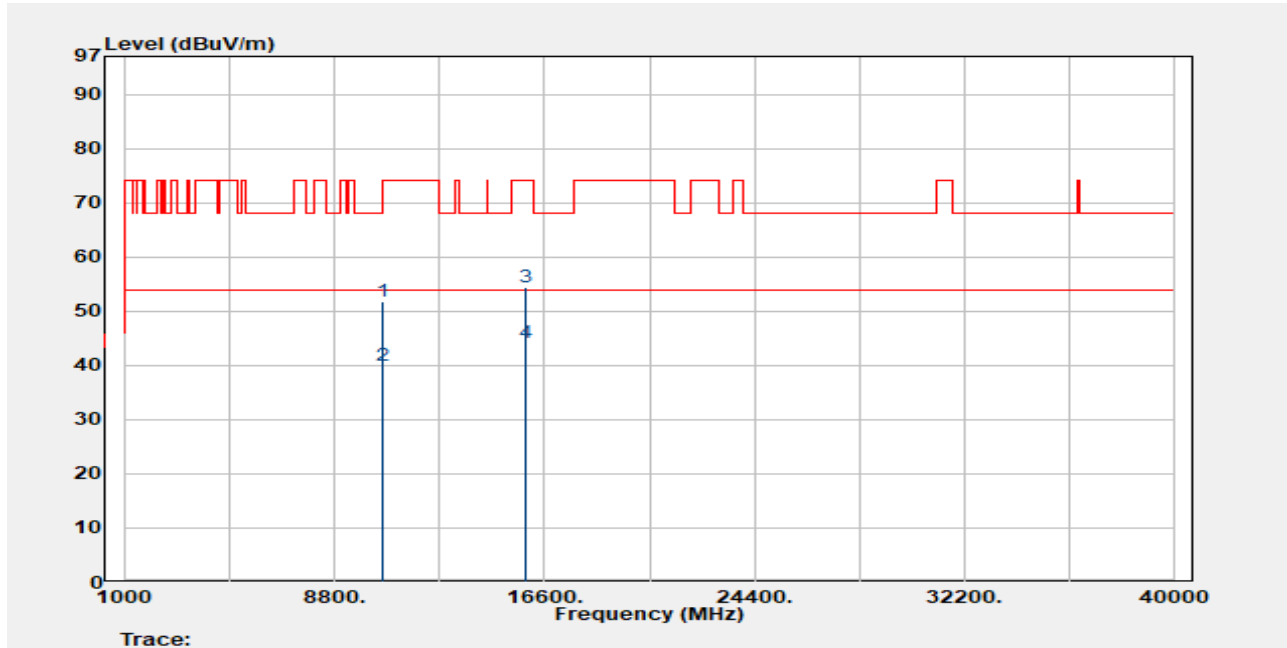
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10600.000	Peak	45.66	6.23	51.89	74.00	-22.11
10600.000	Average	33.85	6.23	40.08	54.00	-13.92
15900.000	Peak	43.46	11.08	54.54	74.00	-19.46
15900.000	Average	33.16	11.08	44.24	54.00	-9.76

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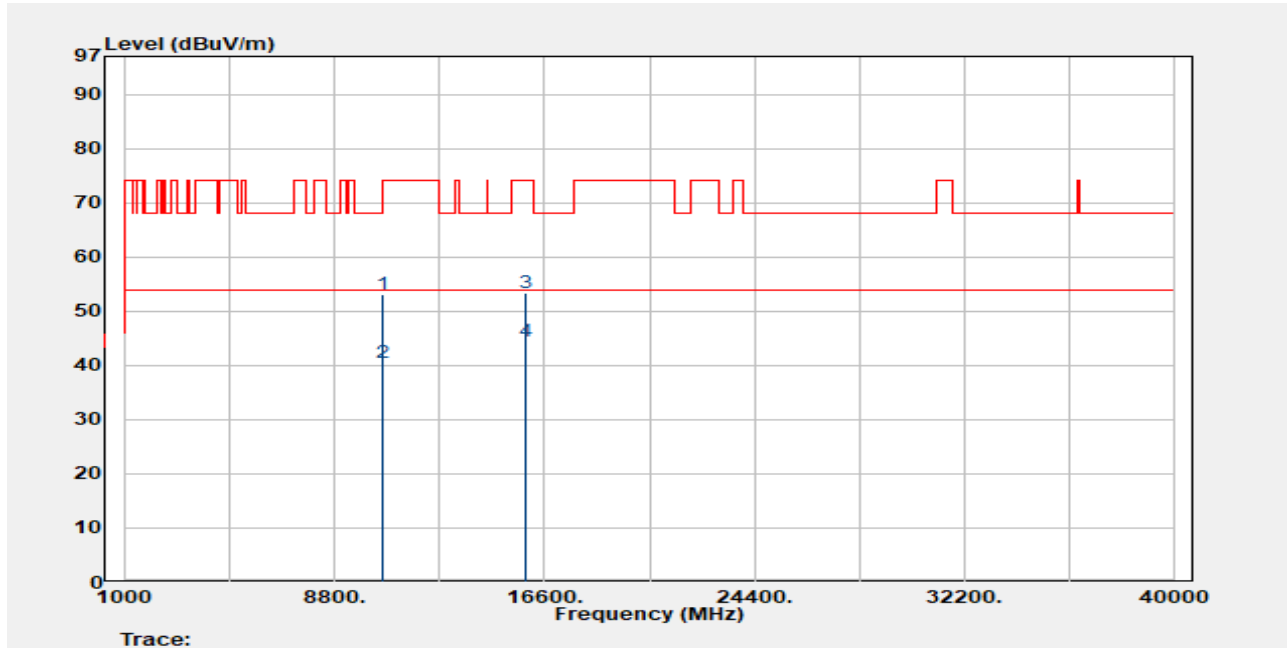
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10600.000	Peak	46.95	6.23	53.18	74.00	-20.82
10600.000	Average	34.13	6.23	40.36	54.00	-13.64
15900.000	Peak	42.24	11.08	53.32	74.00	-20.68
15900.000	Average	33.27	11.08	44.35	54.00	-9.65

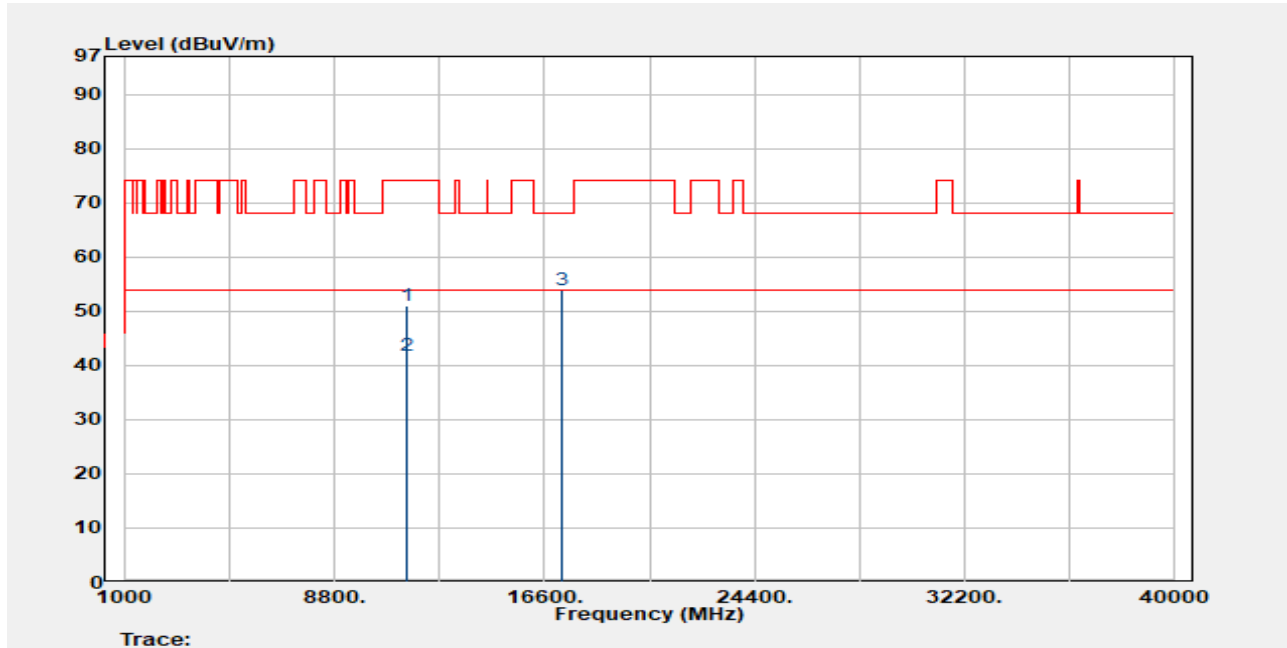
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11490.000	Peak	40.66	10.32	50.98	74.00	-23.02
11490.000	Average	31.48	10.32	41.80	54.00	-12.20
17235.000	Peak	43.85	9.98	53.84	68.20	-14.36

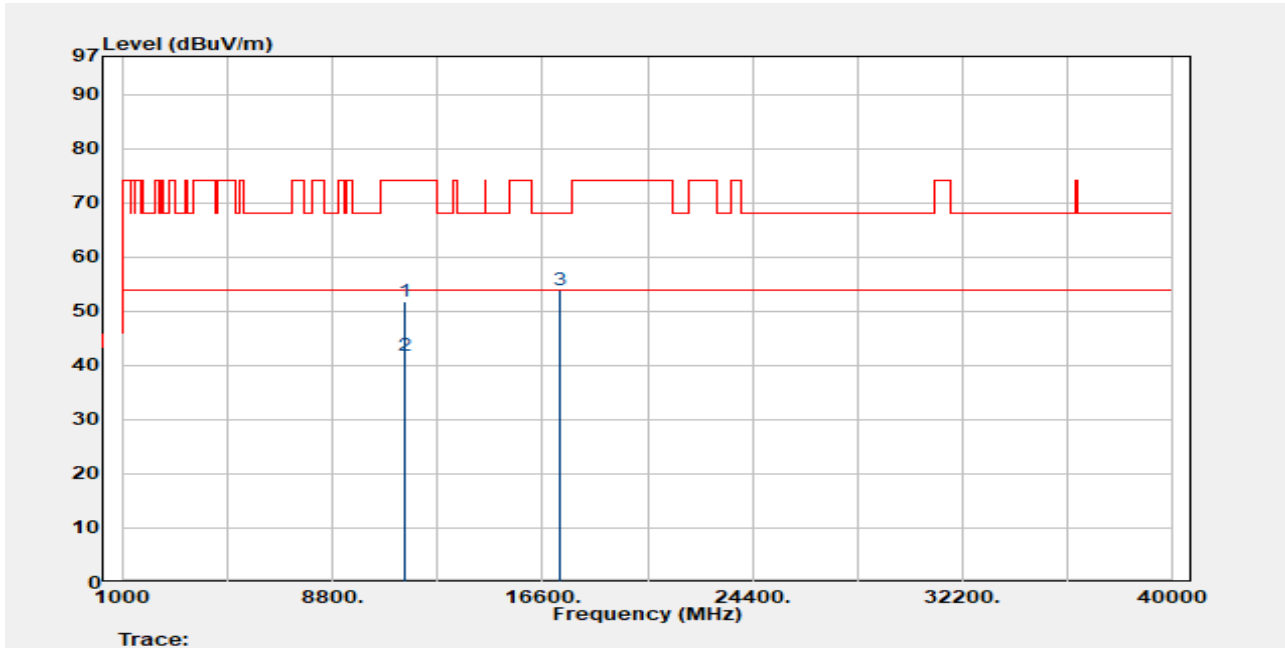
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11490.000	Peak	41.39	10.32	51.71	74.00	-22.29
11490.000	Average	31.39	10.32	41.71	54.00	-12.29
17235.000	Peak	43.93	9.98	53.91	68.20	-14.29

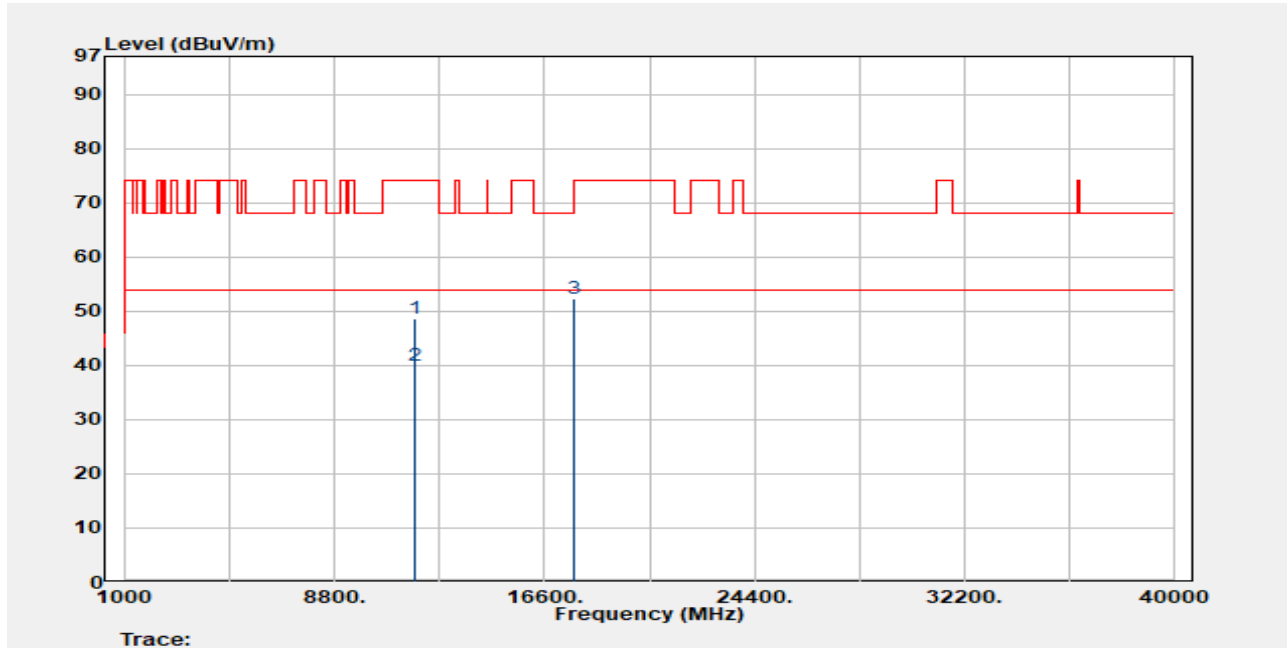
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5885 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11770.000	Peak	39.90	8.72	48.63	74.00	-25.37
11770.000	Average	31.21	8.72	39.93	54.00	-14.07
17655.000	Peak	43.71	8.63	52.34	68.20	-15.86

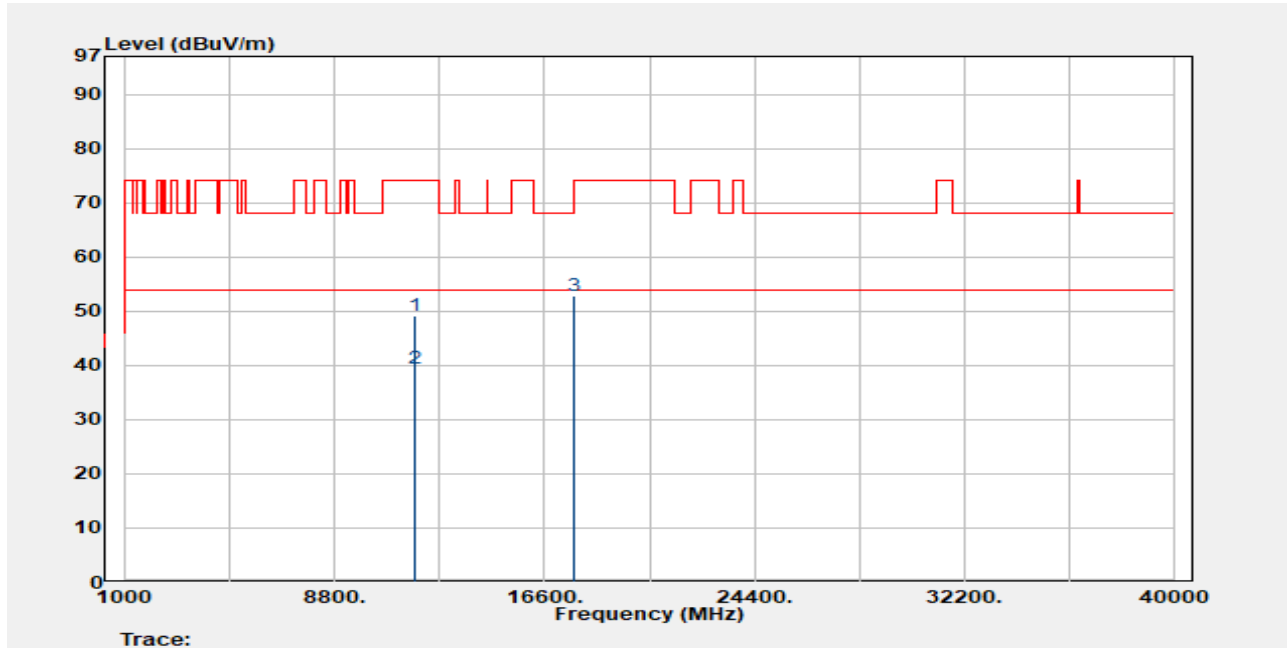
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n20  
 Test Frequency :5885 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11770.000	Peak	40.32	8.72	49.04	74.00	-24.96
11770.000	Average	30.65	8.72	39.37	54.00	-14.63
17655.000	Peak	44.09	8.63	52.72	68.20	-15.48

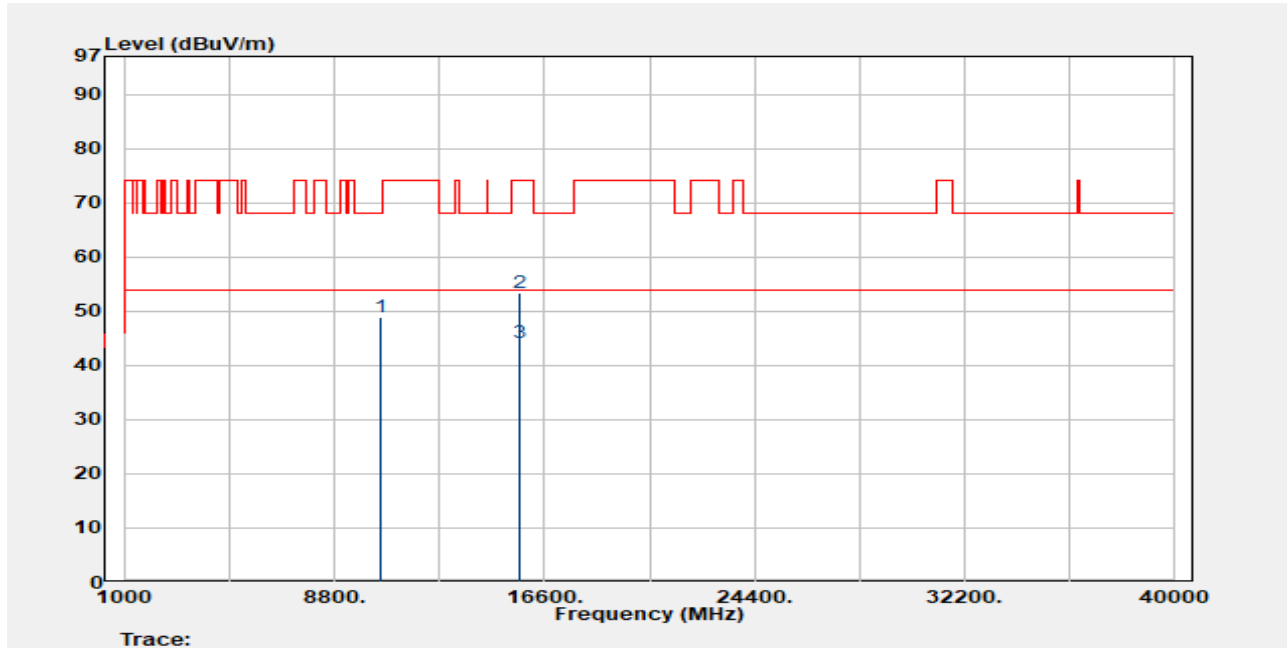
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10460.000	Peak	41.49	7.29	48.78	68.20	-19.42
15690.000	Peak	42.85	10.51	53.36	74.00	-20.64
15690.000	Average	33.62	10.51	44.13	54.00	-9.87

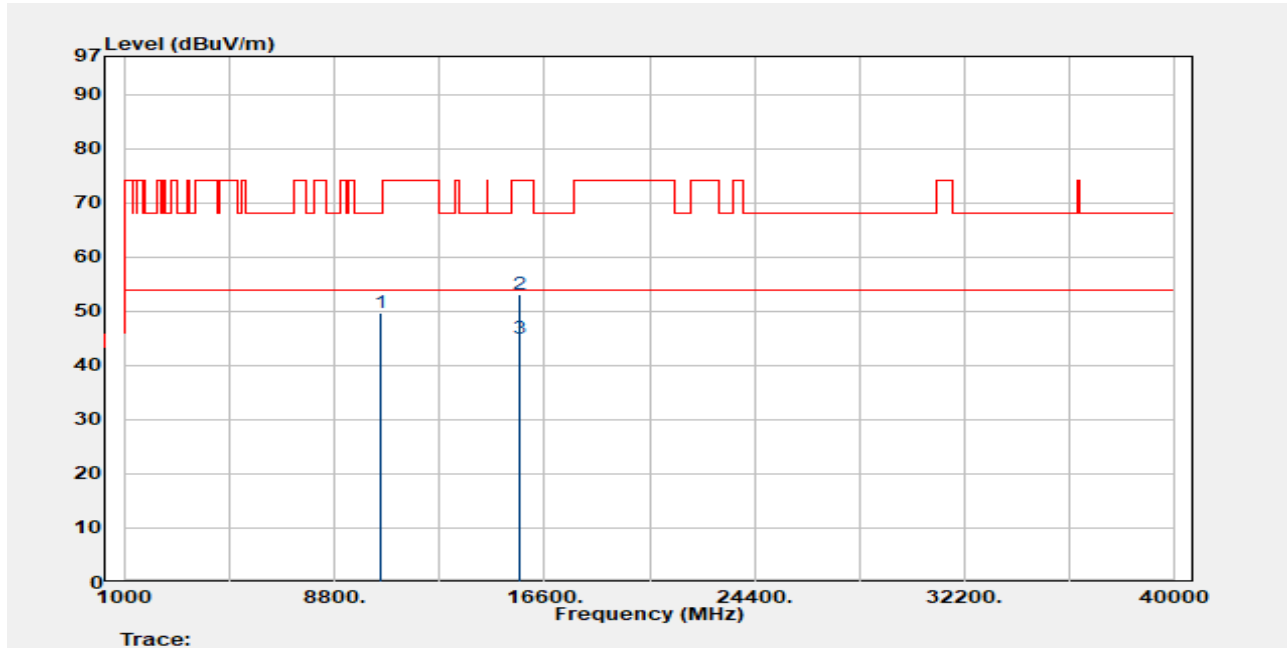
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10460.000	Peak	42.41	7.29	49.70	68.20	-18.50
15690.000	Peak	42.71	10.51	53.22	74.00	-20.78
15690.000	Average	34.54	10.51	45.05	54.00	-8.95

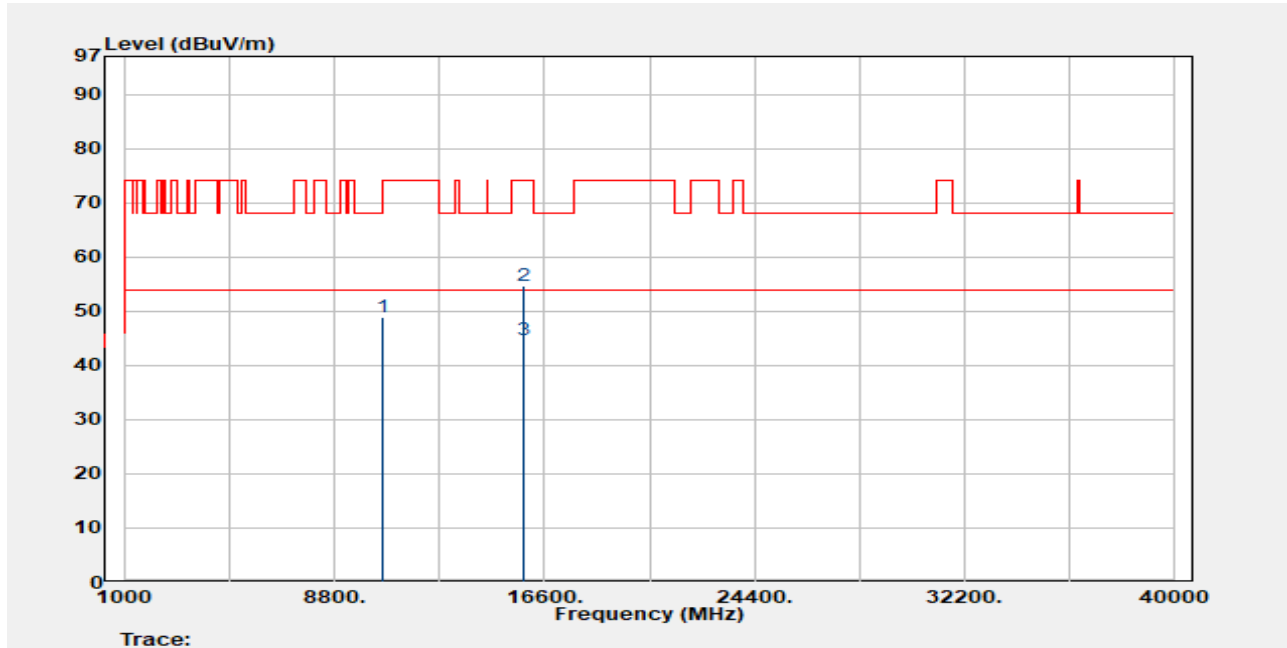
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5270 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10540.000	Peak	40.32	8.67	48.99	68.20	-19.21
15810.000	Peak	43.44	11.35	54.79	74.00	-19.21
15810.000	Average	33.32	11.35	44.67	54.00	-9.33

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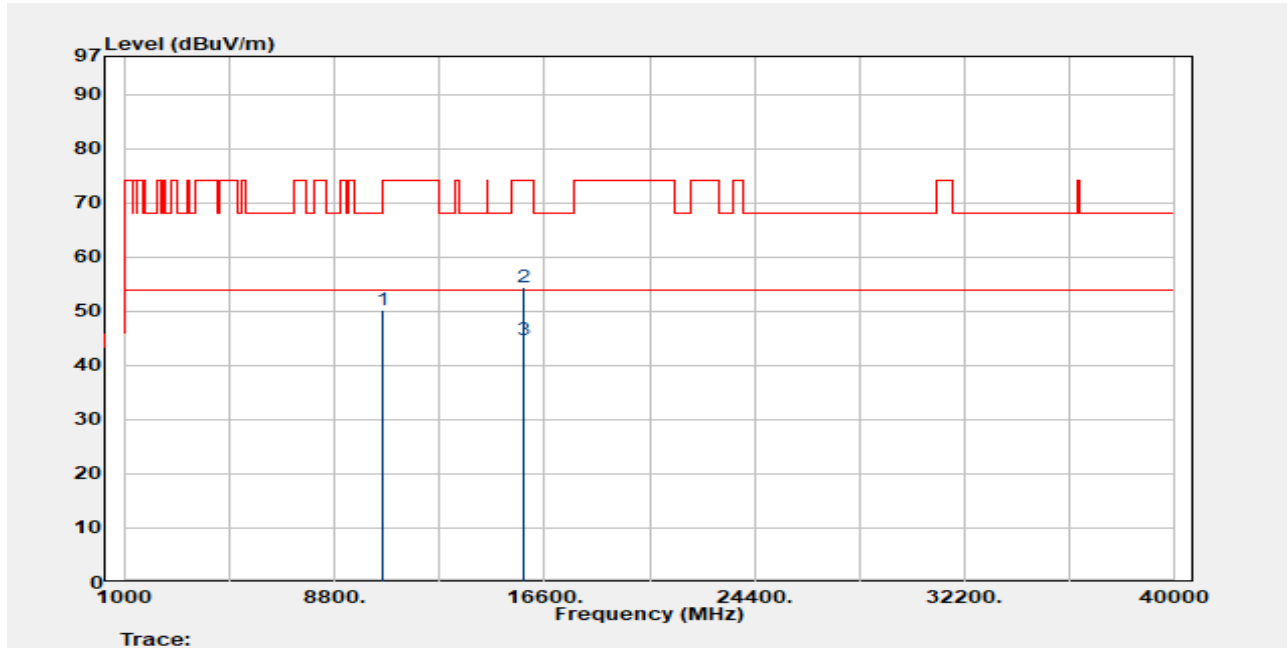
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5270 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10540.000	Peak	41.57	8.67	50.24	68.20	-17.96
15810.000	Peak	42.97	11.35	54.32	74.00	-19.68
15810.000	Average	33.44	11.35	44.79	54.00	-9.21

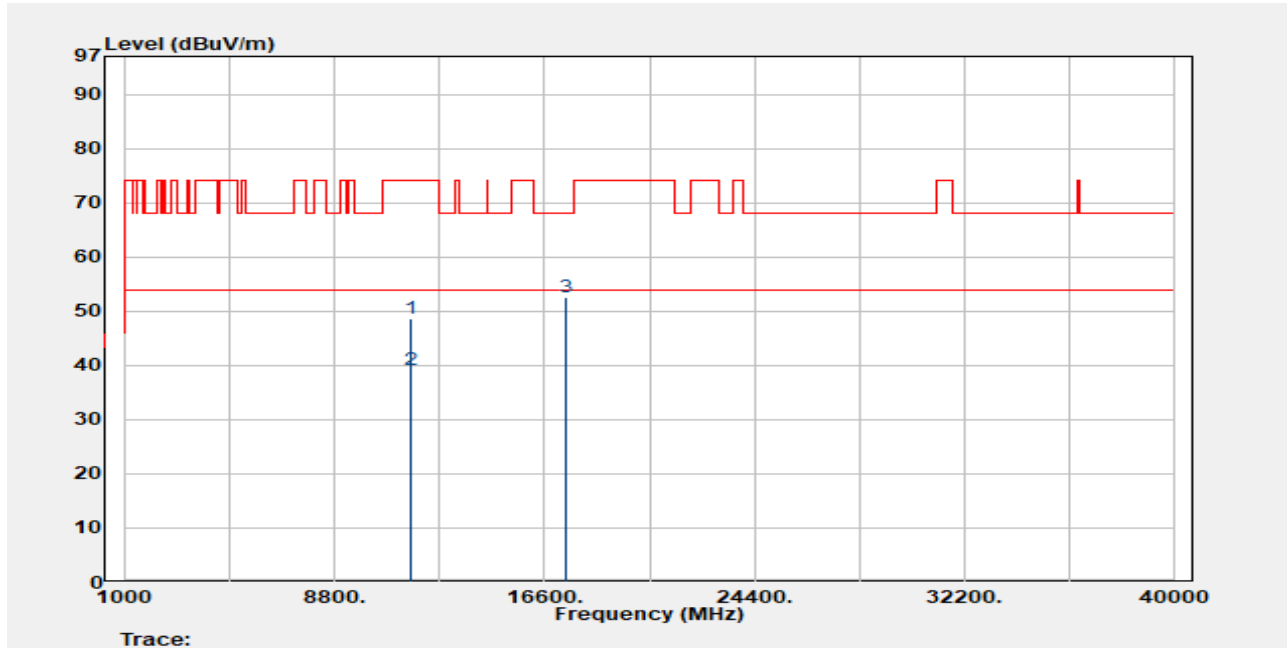
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11590.000	Peak	40.08	8.44	48.51	74.00	-25.49
11590.000	Average	30.82	8.44	39.26	54.00	-14.74
17385.000	Peak	43.84	8.71	52.55	68.20	-15.65

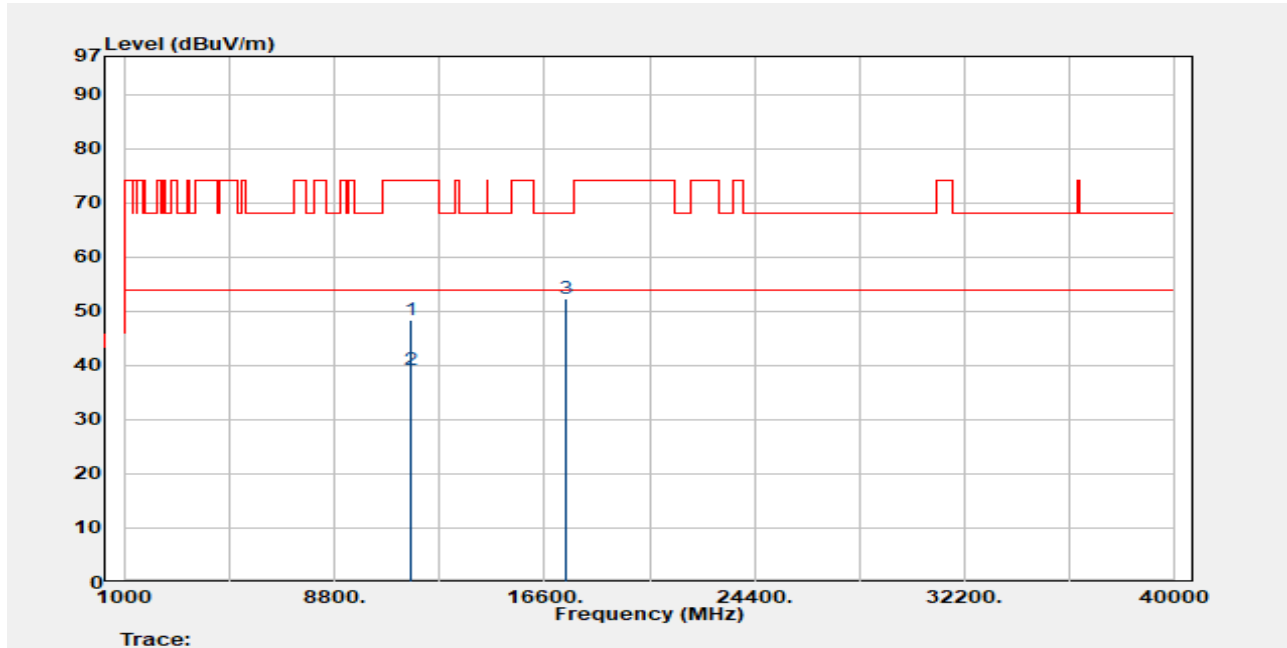
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11590.000	Peak	40.02	8.44	48.46	74.00	-25.54
11590.000	Average	30.80	8.44	39.24	54.00	-14.76
17385.000	Peak	43.70	8.71	52.41	68.20	-15.79

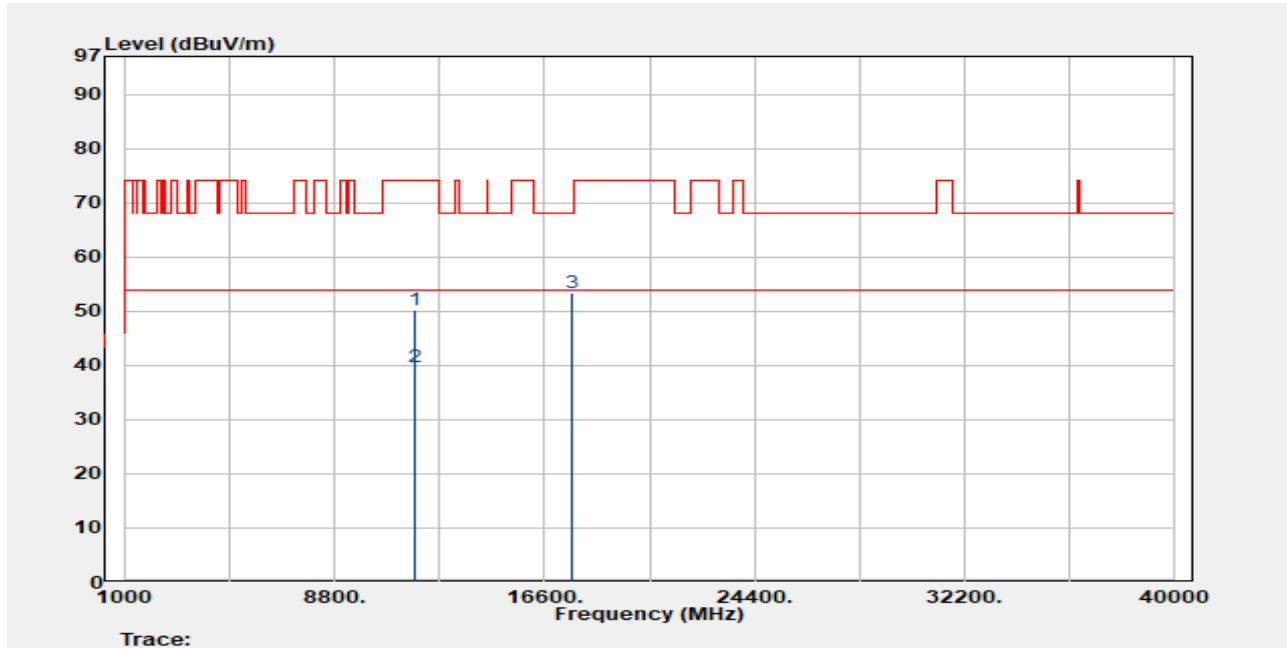
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5875 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11750.000	Peak	41.57	8.60	50.17	74.00	-23.83
11750.000	Average	31.06	8.60	39.66	54.00	-14.34
17625.000	Peak	44.31	9.09	53.40	68.20	-14.80

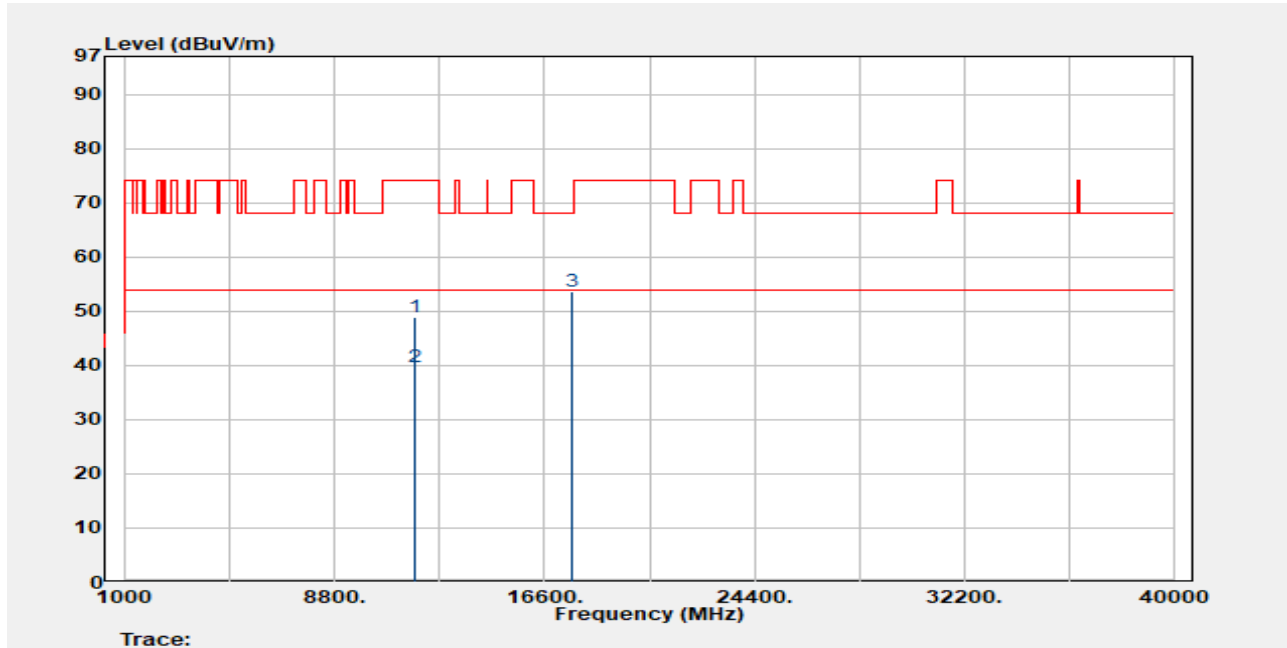
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Report Number :TERF2304001050ER  
 Operation Mode :802.11n40  
 Test Frequency :5875 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11750.000	Peak	40.38	8.60	48.99	74.00	-25.01
11750.000	Average	31.02	8.60	39.62	54.00	-14.38
17625.000	Peak	44.42	9.09	53.51	68.20	-14.69

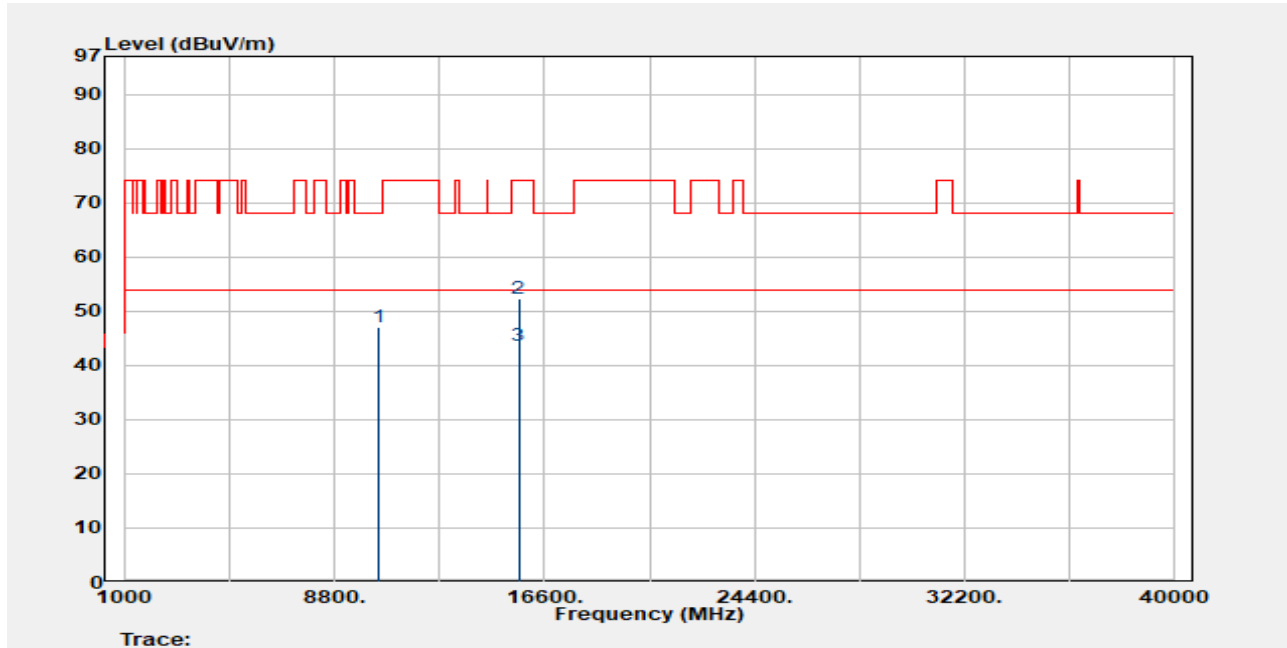
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10420.000	Peak	40.02	7.15	47.16	68.20	-21.04
15630.000	Peak	42.29	9.96	52.25	74.00	-21.75
15630.000	Average	33.69	9.96	43.65	54.00	-10.35

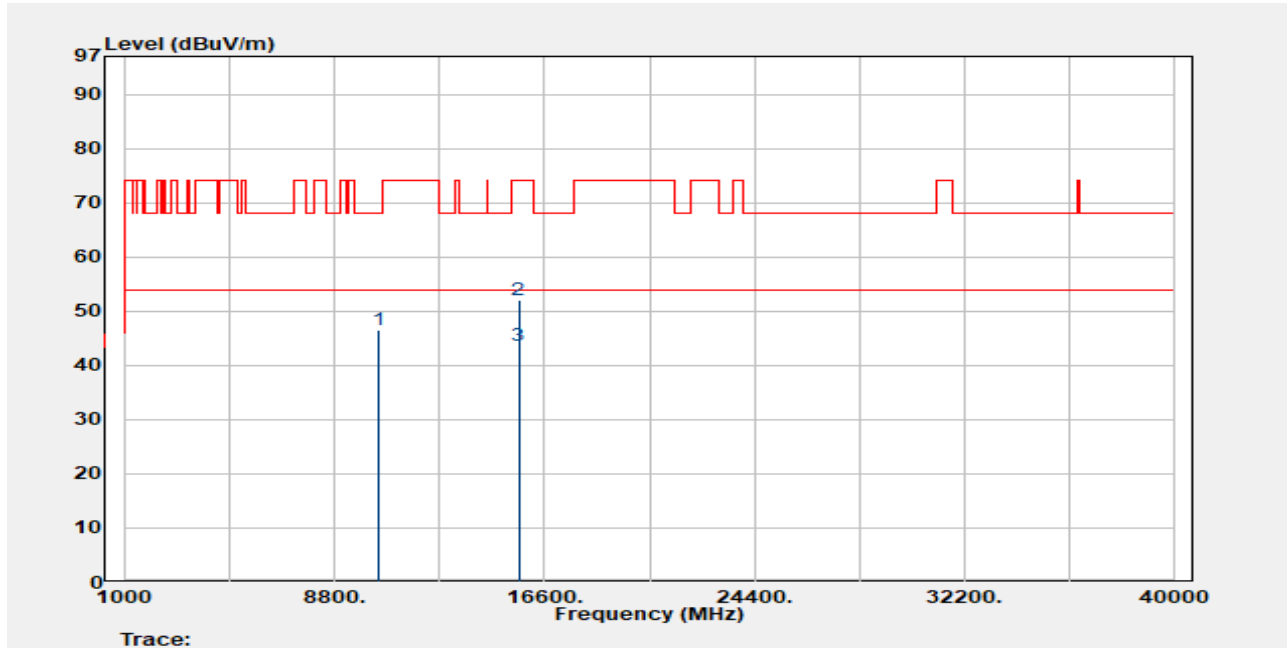
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10420.000	Peak	39.34	7.15	46.48	68.20	-21.72
15630.000	Peak	42.06	9.96	52.02	74.00	-21.98
15630.000	Average	33.72	9.96	43.68	54.00	-10.32

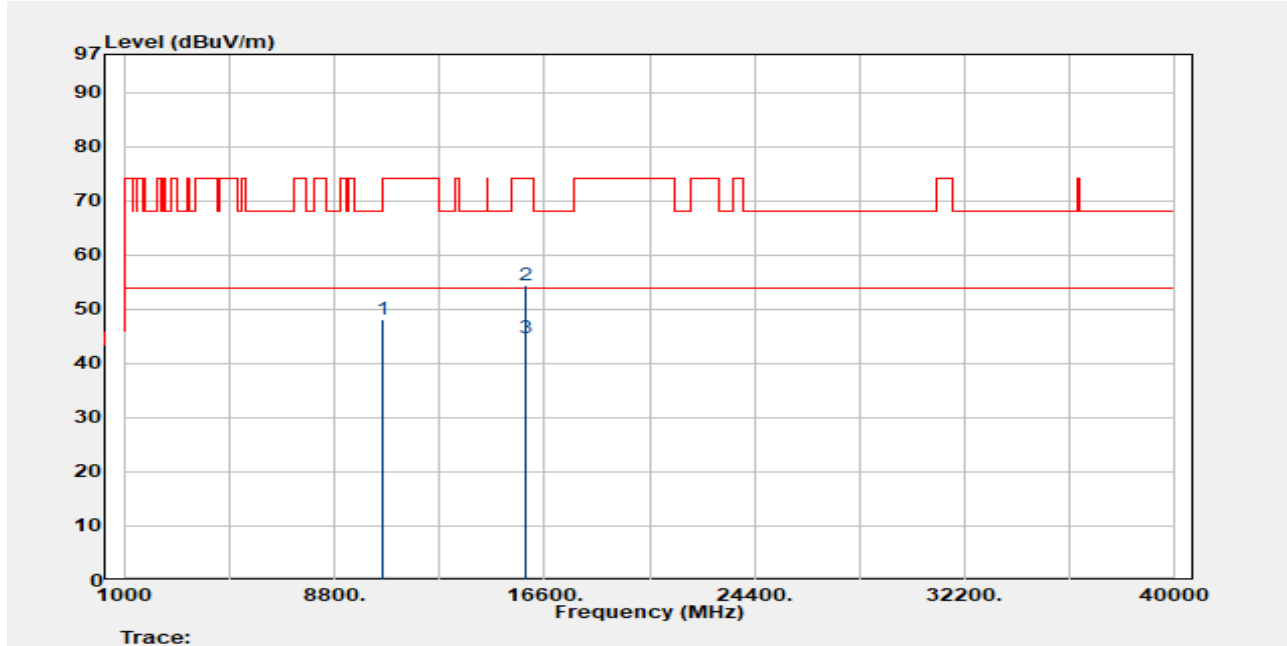
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10580.000	Peak	40.77	7.25	48.01	68.20	-20.19
15870.000	Peak	43.04	11.37	54.41	74.00	-19.59
15870.000	Average	33.28	11.37	44.65	54.00	-9.35

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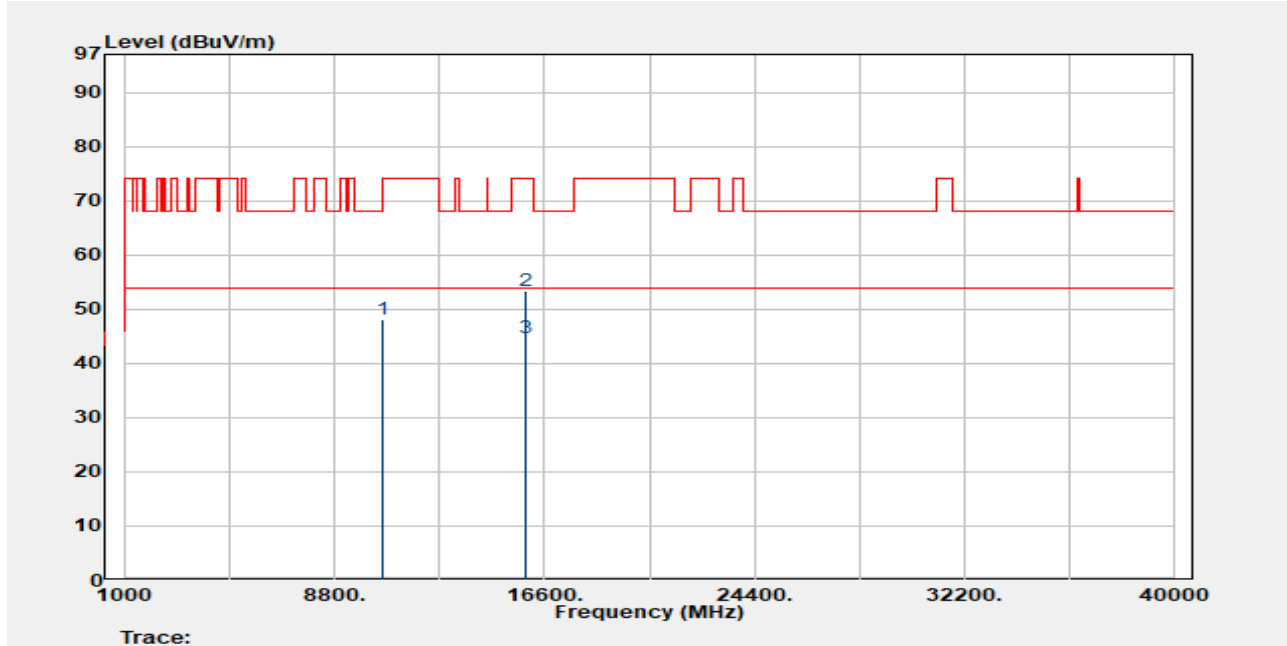
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10580.000	Peak	40.76	7.25	48.01	68.20	-20.19
15870.000	Peak	42.09	11.37	53.45	74.00	-20.55
15870.000	Average	33.32	11.37	44.69	54.00	-9.31

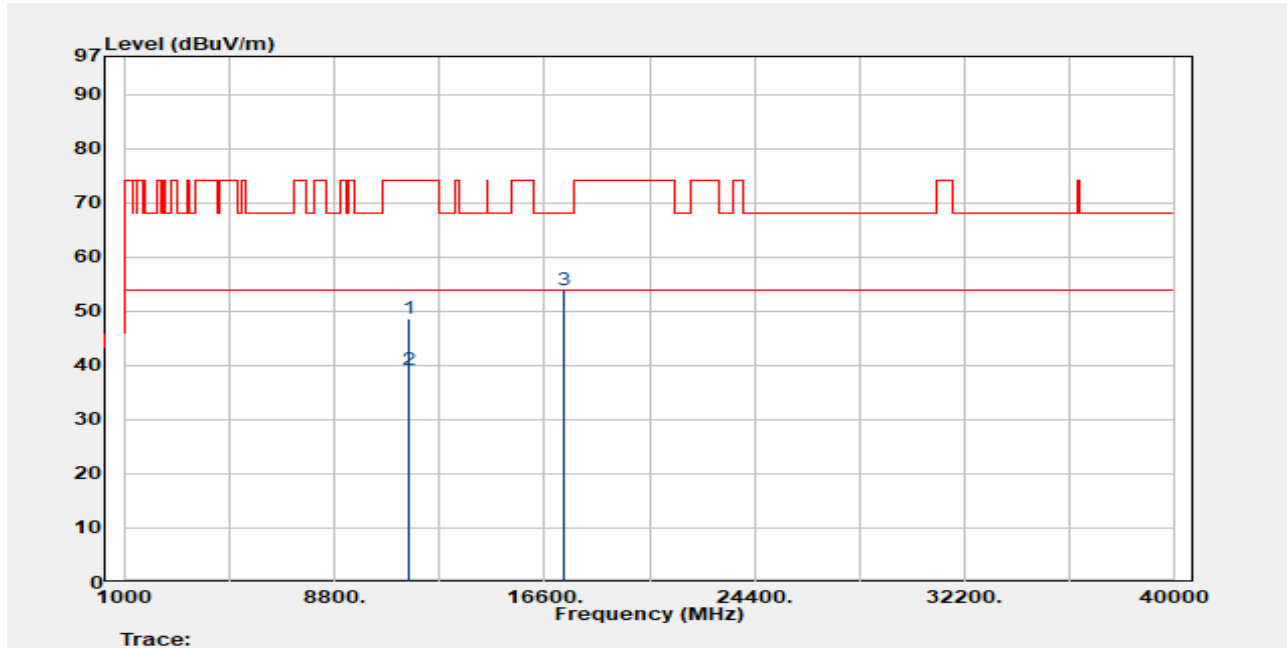
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11550.000	Peak	40.41	8.18	48.59	74.00	-25.41
11550.000	Average	30.89	8.18	39.07	54.00	-14.93
17325.000	Peak	44.49	9.35	53.84	68.20	-14.36

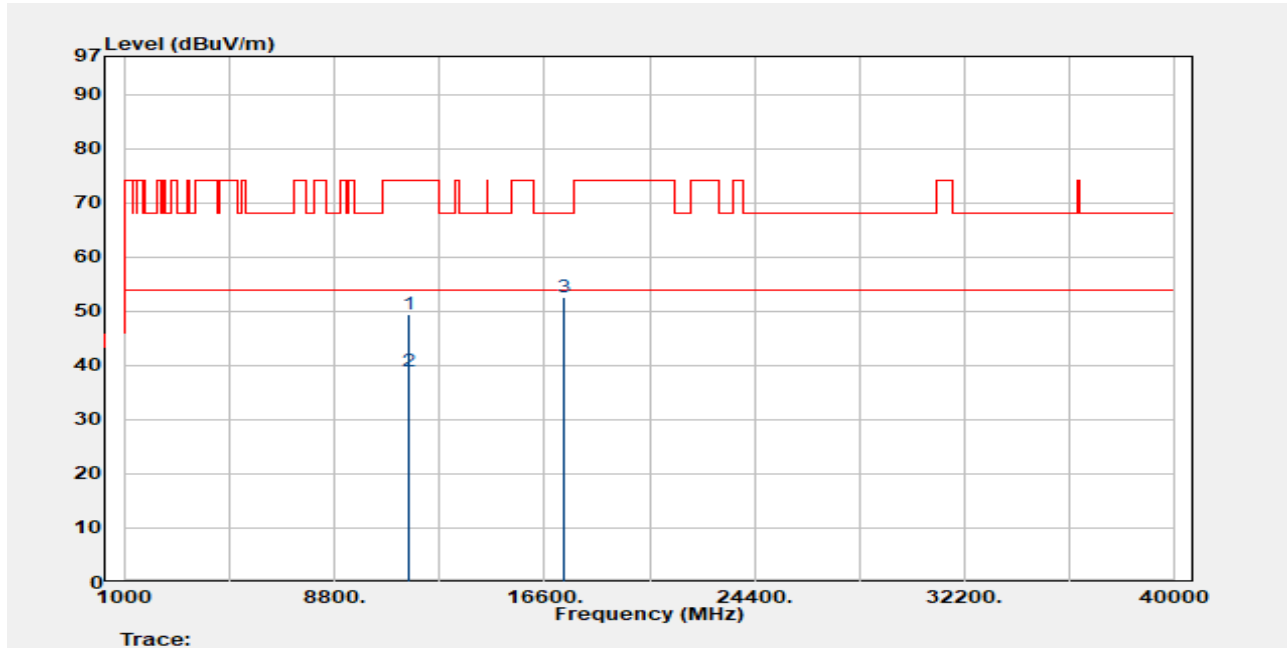
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11550.000	Peak	41.12	8.18	49.30	74.00	-24.70
11550.000	Average	30.85	8.18	39.03	54.00	-14.97
17325.000	Peak	43.15	9.35	52.50	68.20	-15.70

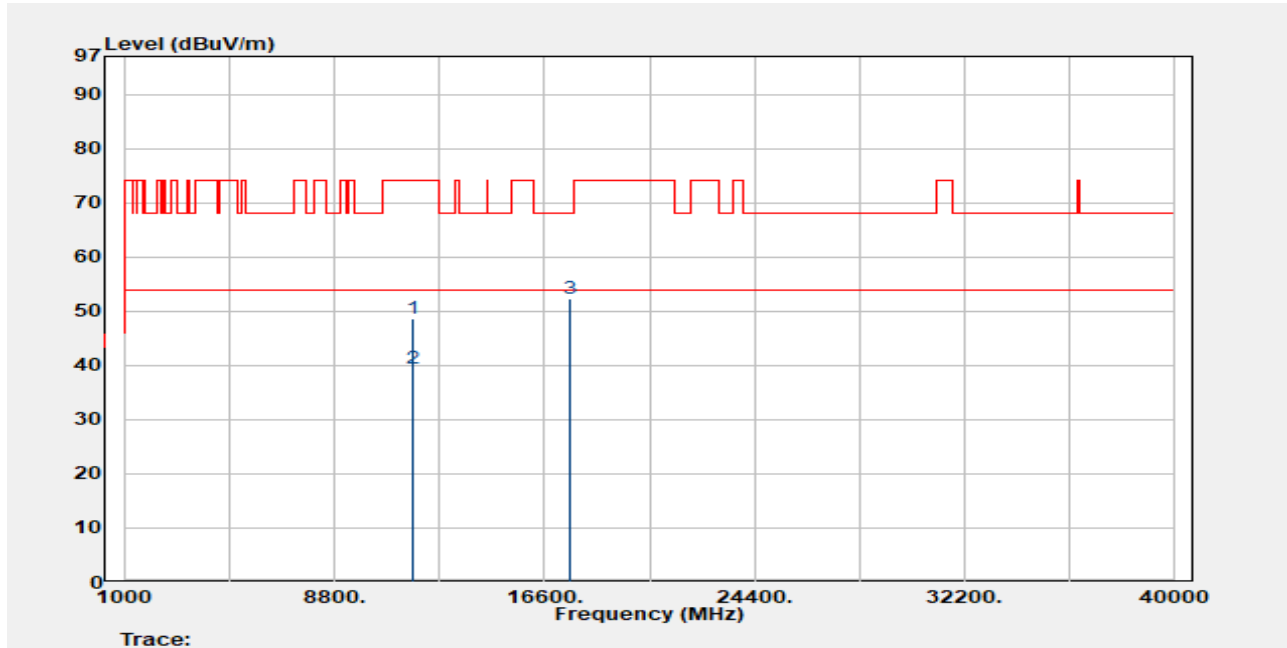
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5855 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11710.000	Peak	40.38	8.31	48.69	74.00	-25.31
11710.000	Average	31.02	8.31	39.33	54.00	-14.67
17565.000	Peak	44.17	8.26	52.43	68.20	-15.77

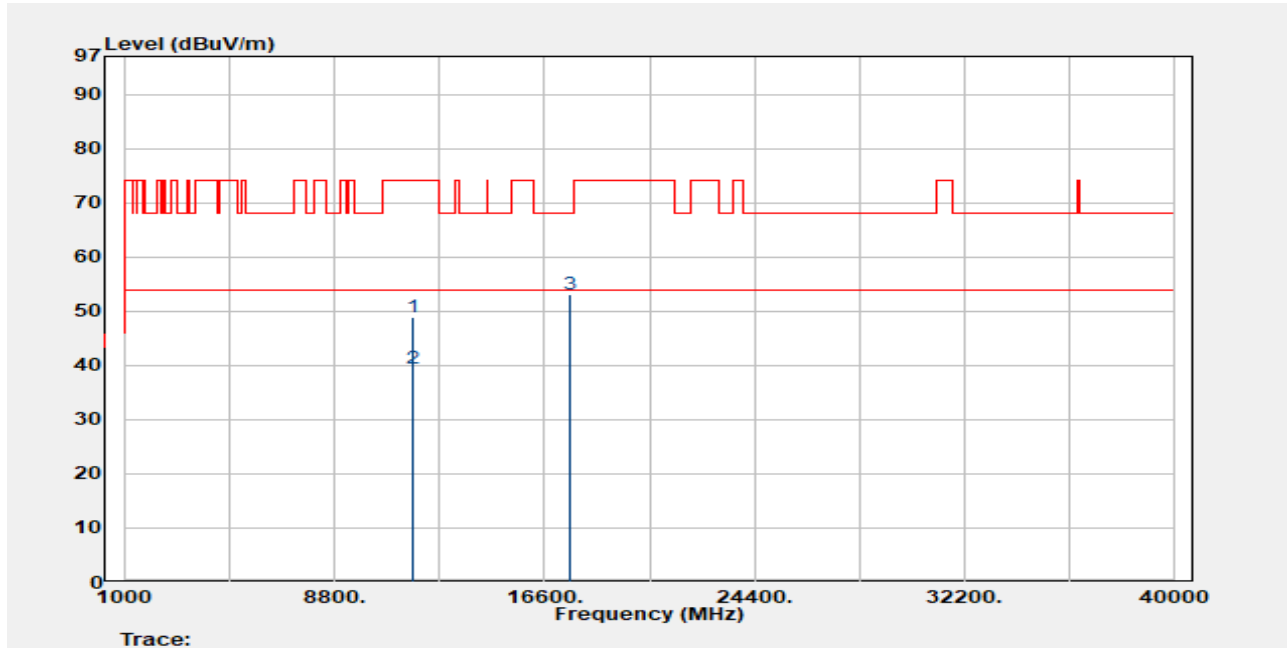
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac80  
 Test Frequency :5855 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11710.000	Peak	40.63	8.31	48.94	74.00	-25.06
11710.000	Average	31.03	8.31	39.34	54.00	-14.66
17565.000	Peak	44.71	8.26	52.97	68.20	-15.23

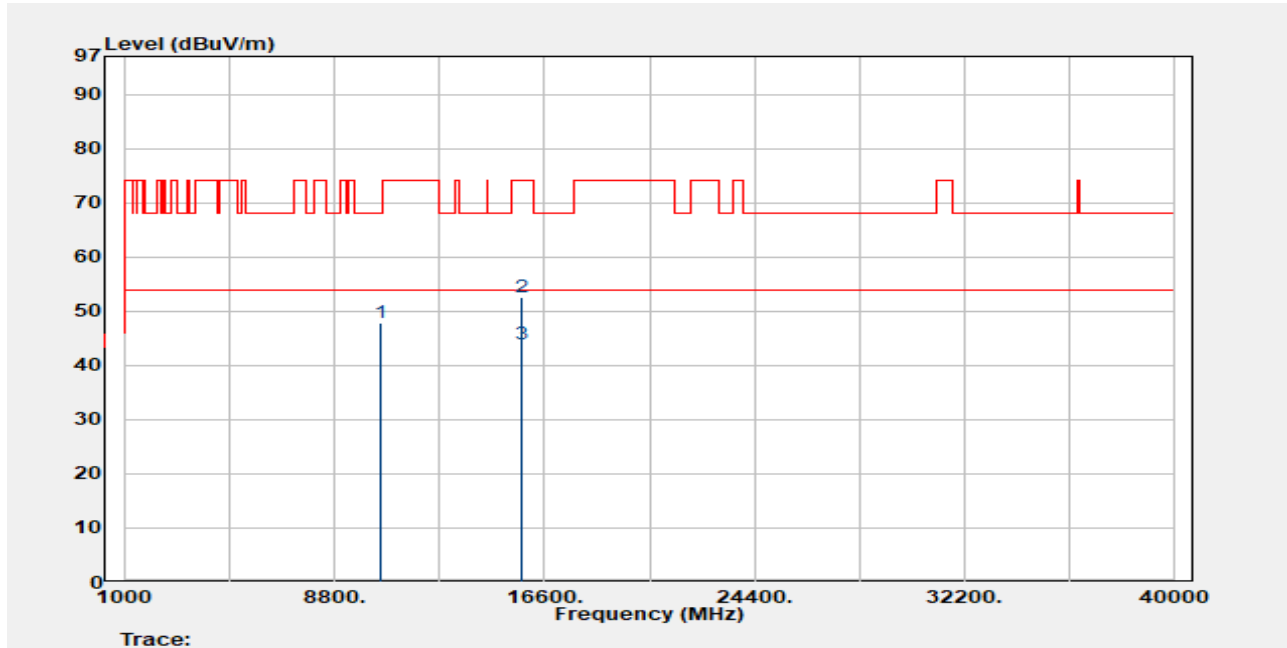
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac160  
 Test Frequency :5250 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10500.000	Peak	39.58	8.25	47.83	68.20	-20.37
15750.000	Peak	41.84	10.67	52.51	74.00	-21.49
15750.000	Average	33.28	10.67	43.95	54.00	-10.05

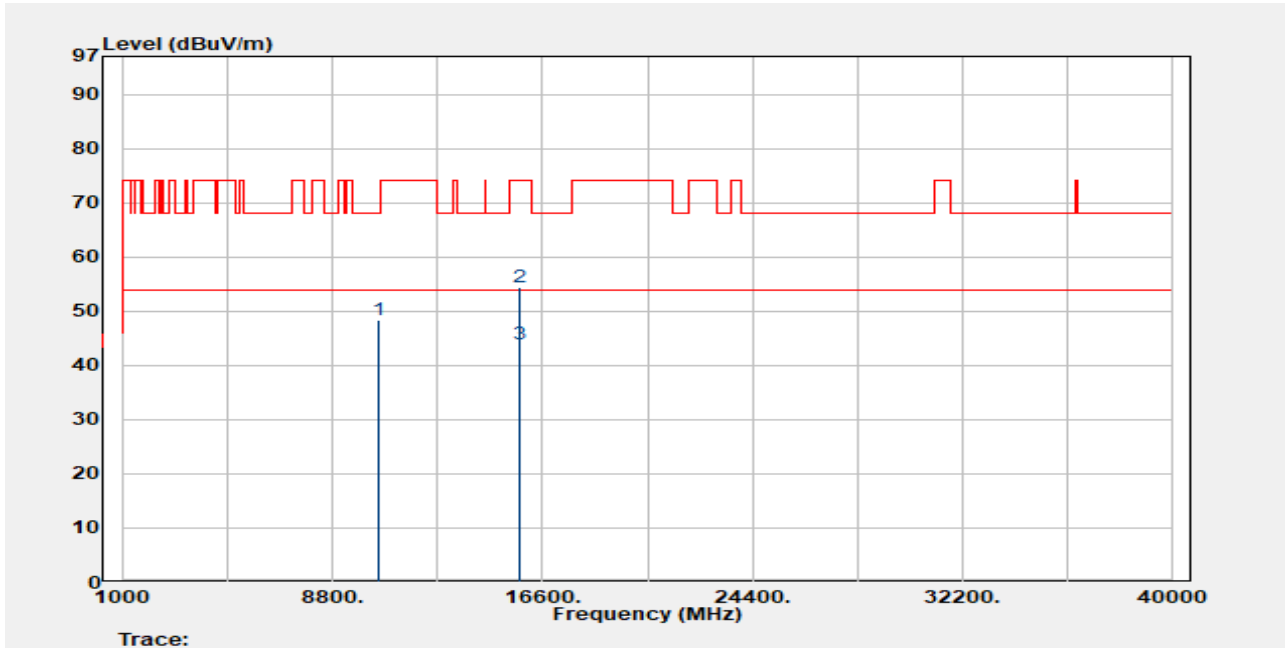
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac160  
 Test Frequency :5250 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10500.000	Peak	40.23	8.25	48.48	68.20	-19.72
15750.000	Peak	43.68	10.67	54.36	74.00	-19.64
15750.000	Average	33.31	10.67	43.98	54.00	-10.02

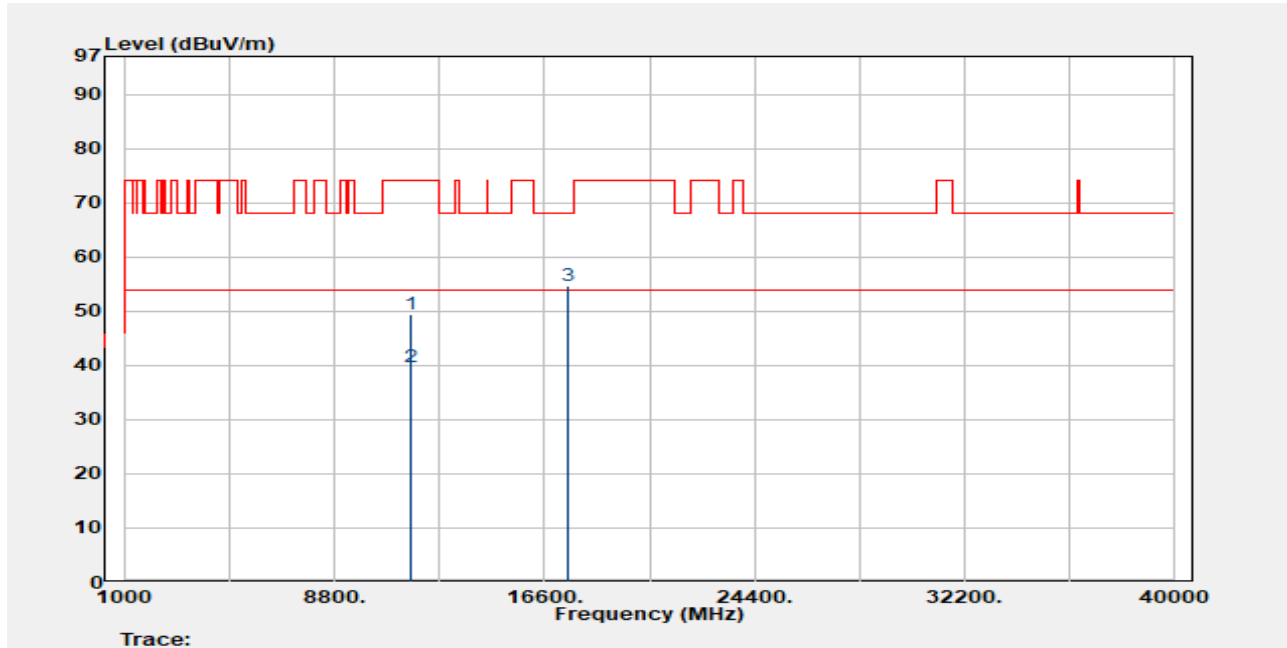
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac160  
 Test Frequency :5815 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11630.000	Peak	40.78	8.75	49.54	74.00	-24.46
11630.000	Average	30.89	8.75	39.64	54.00	-14.36
17445.000	Peak	44.95	9.65	54.60	68.20	-13.60

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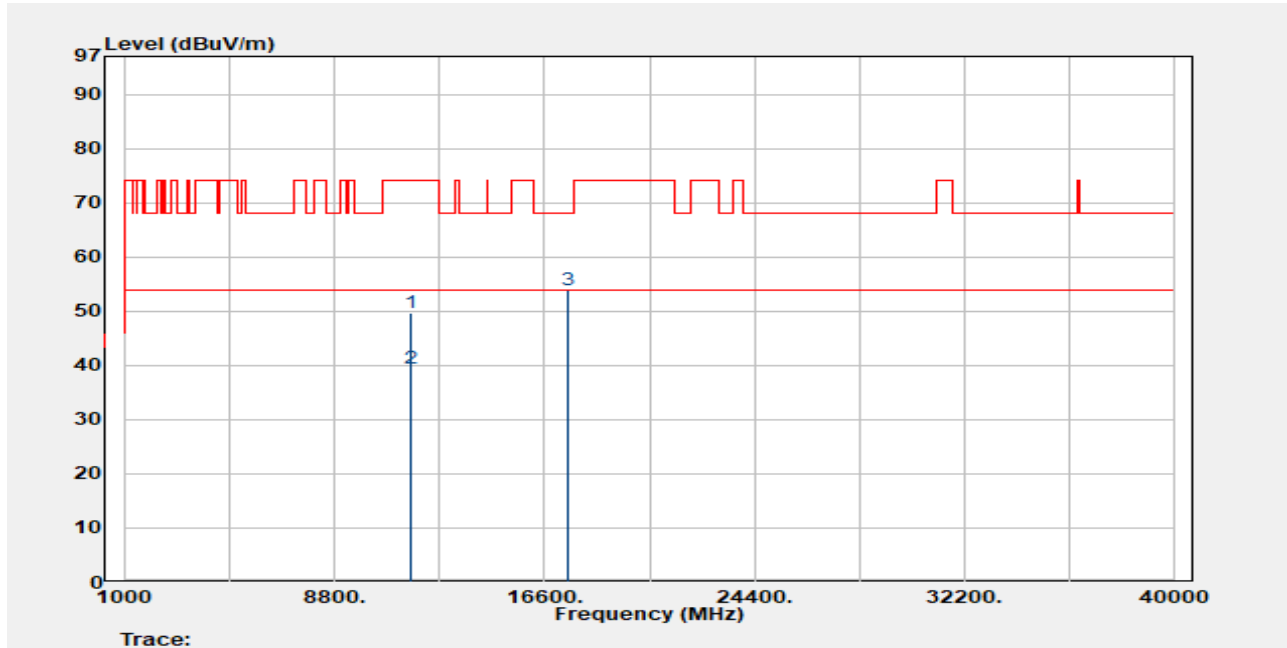
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ac160  
 Test Frequency :5815 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11630.000	Peak	40.85	8.75	49.61	74.00	-24.39
11630.000	Average	30.62	8.75	39.37	54.00	-14.63
17445.000	Peak	44.22	9.65	53.87	68.20	-14.33

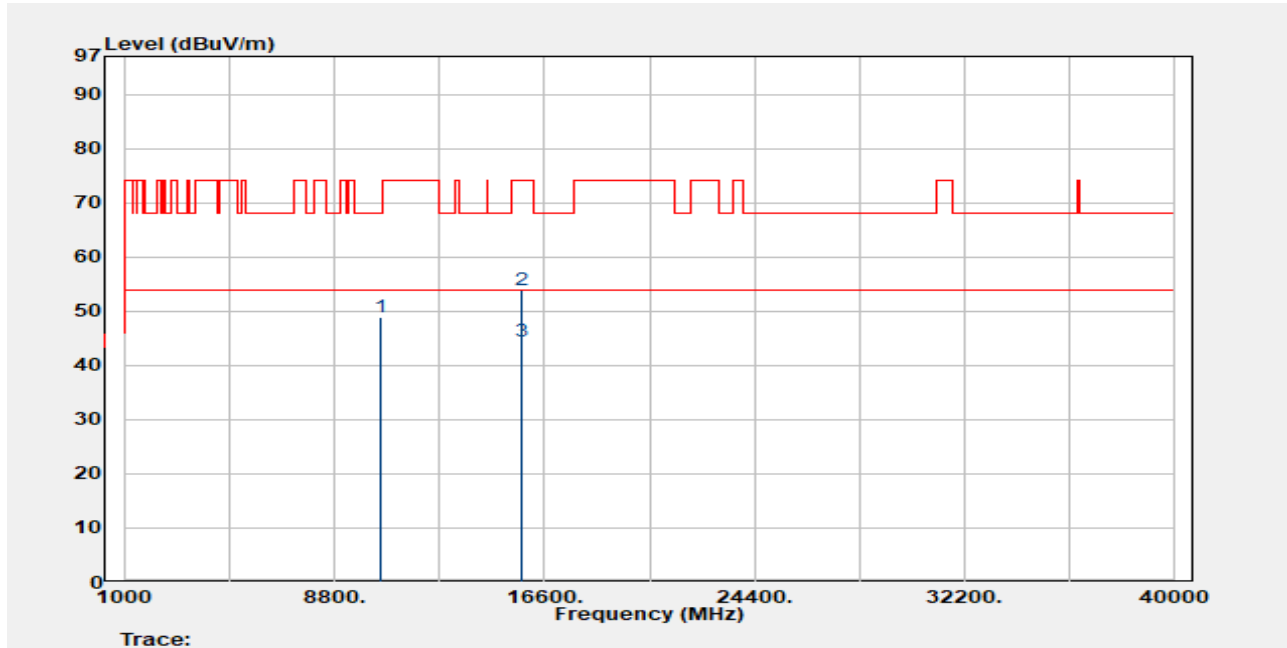
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10480.000	Peak	41.05	7.77	48.82	68.20	-19.38
15720.000	Peak	43.11	10.66	53.77	74.00	-20.23
15720.000	Average	33.65	10.66	44.31	54.00	-9.69

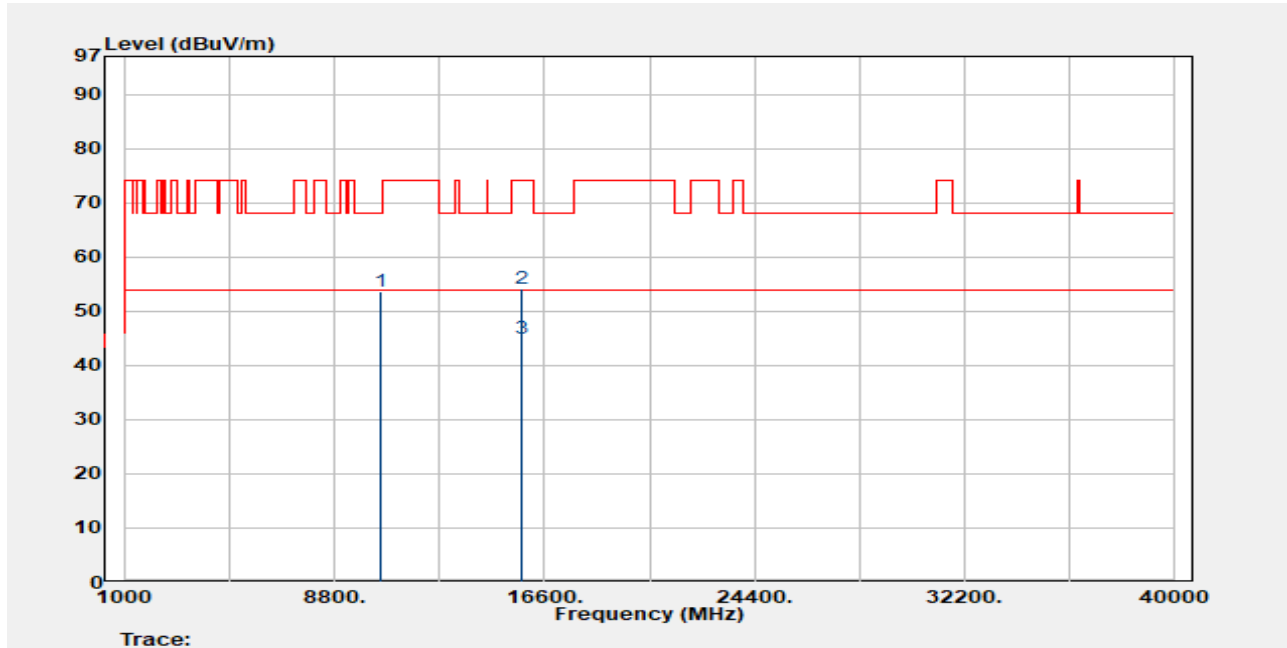
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5240 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10480.000	Peak	45.79	7.77	53.56	68.20	-14.64
15720.000	Peak	43.43	10.66	54.09	74.00	-19.91
15720.000	Average	34.41	10.66	45.07	54.00	-8.93

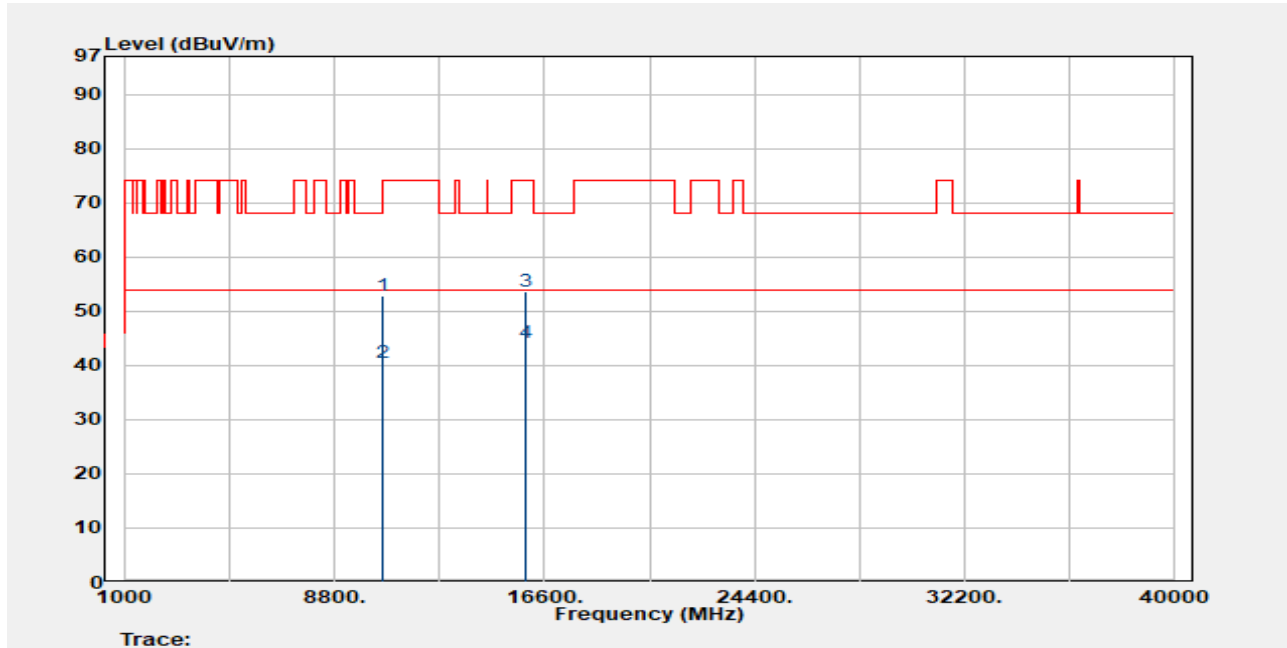
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10600.000	Peak	46.73	6.23	52.96	74.00	-21.04
10600.000	Average	34.24	6.23	40.47	54.00	-13.53
15900.000	Peak	42.49	11.08	53.57	74.00	-20.43
15900.000	Average	33.11	11.08	44.19	54.00	-9.81

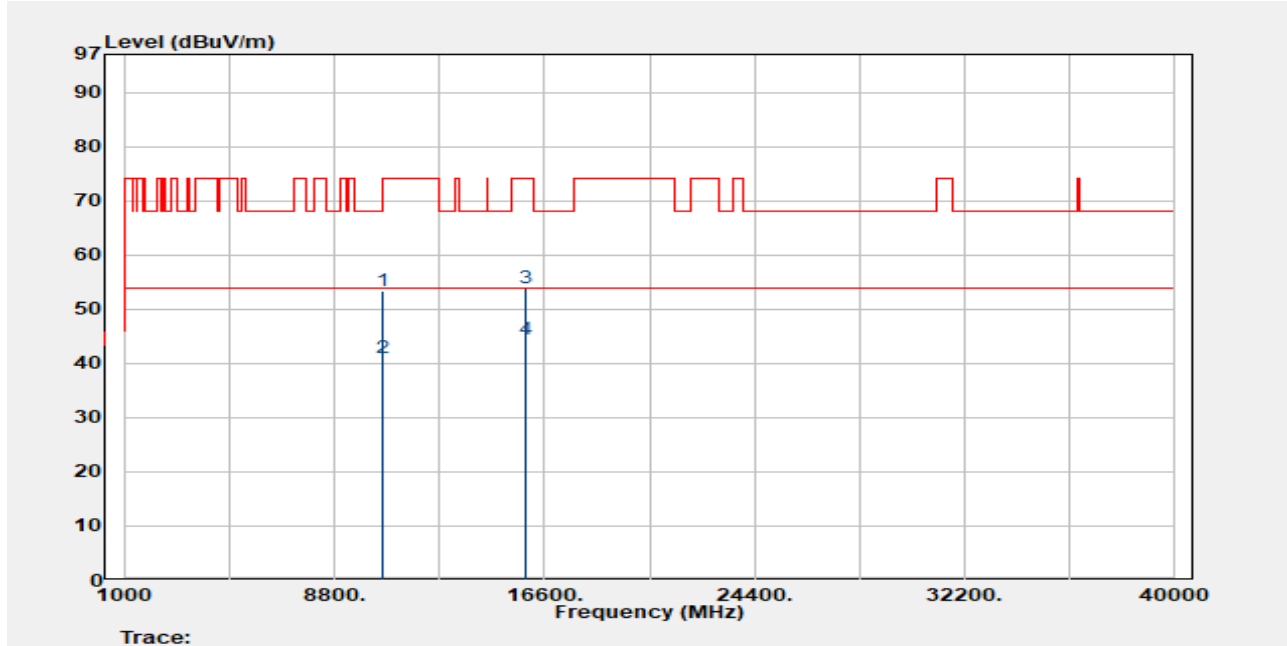
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5300 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10600.000	Peak	47.25	6.23	53.48	74.00	-20.52
10600.000	Average	34.69	6.23	40.92	54.00	-13.08
15900.000	Peak	42.74	11.08	53.81	74.00	-20.19
15900.000	Average	33.28	11.08	44.36	54.00	-9.64

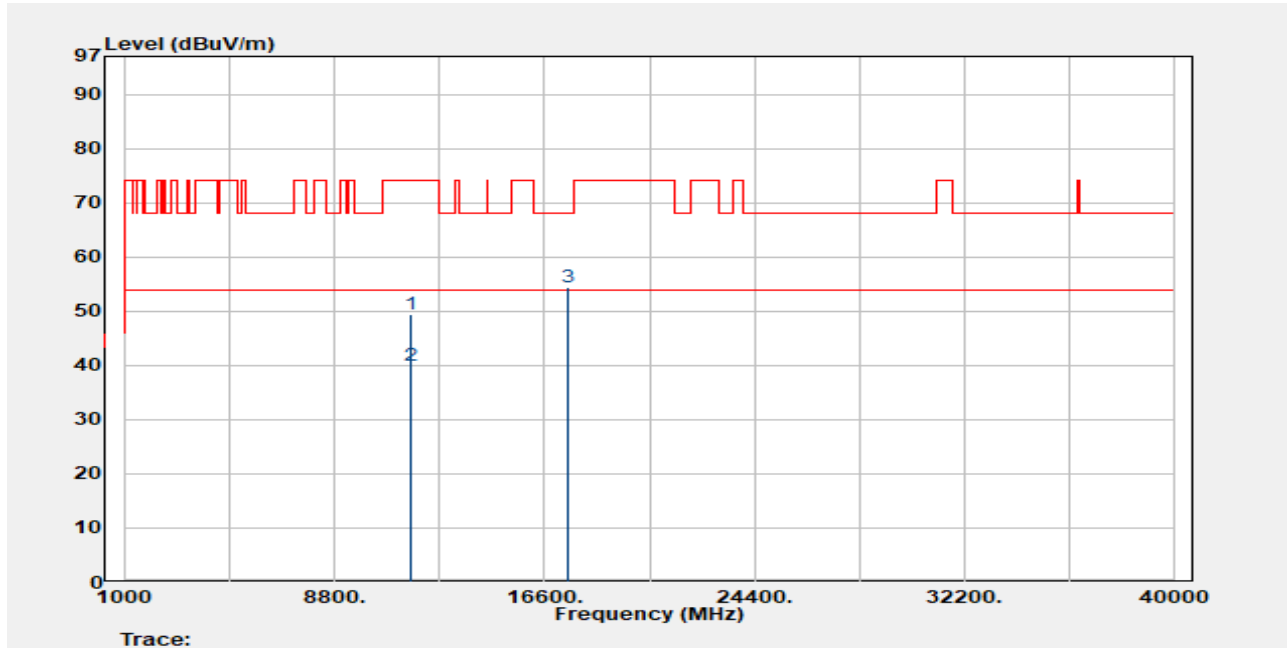
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5825 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11650.000	Peak	40.58	8.92	49.50	74.00	-24.50
11650.000	Average	31.09	8.92	40.01	54.00	-13.99
17475.000	Peak	45.27	9.15	54.42	68.20	-13.78

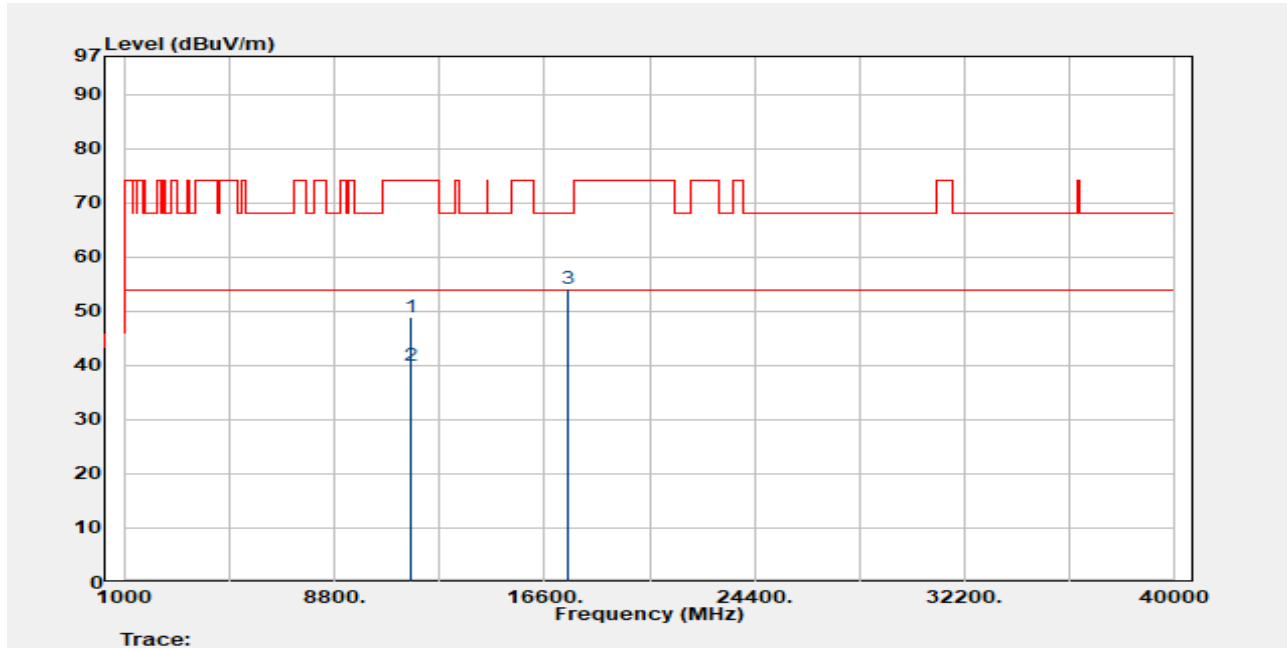
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5825 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11650.000	Peak	40.09	8.92	49.01	74.00	-24.99
11650.000	Average	31.03	8.92	39.95	54.00	-14.05
17475.000	Peak	44.90	9.15	54.05	68.20	-14.15

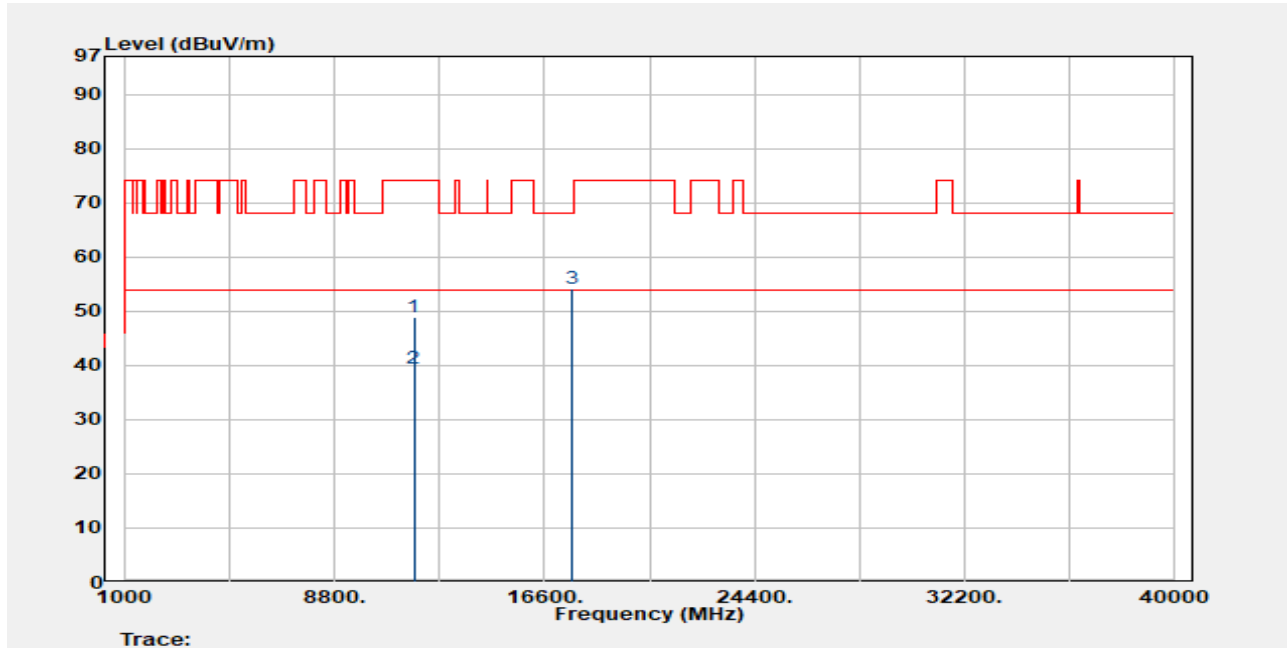
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5865 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11730.000	Peak	40.33	8.46	48.78	74.00	-25.22
11730.000	Average	30.93	8.46	39.39	54.00	-14.61
17595.000	Peak	44.75	9.39	54.14	68.20	-14.06

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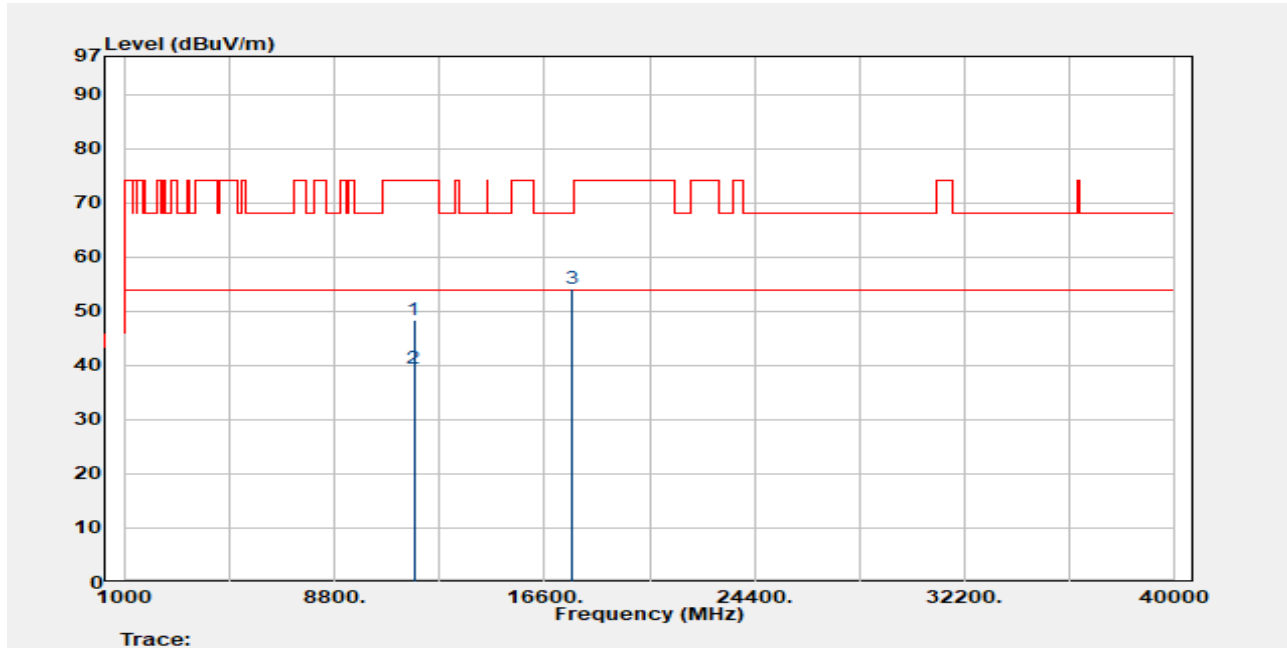
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax20 RU FULL  
 Test Frequency :5865 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11730.000	Peak	39.95	8.46	48.40	74.00	-25.60
11730.000	Average	30.90	8.46	39.36	54.00	-14.64
17595.000	Peak	44.69	9.39	54.08	68.20	-14.12

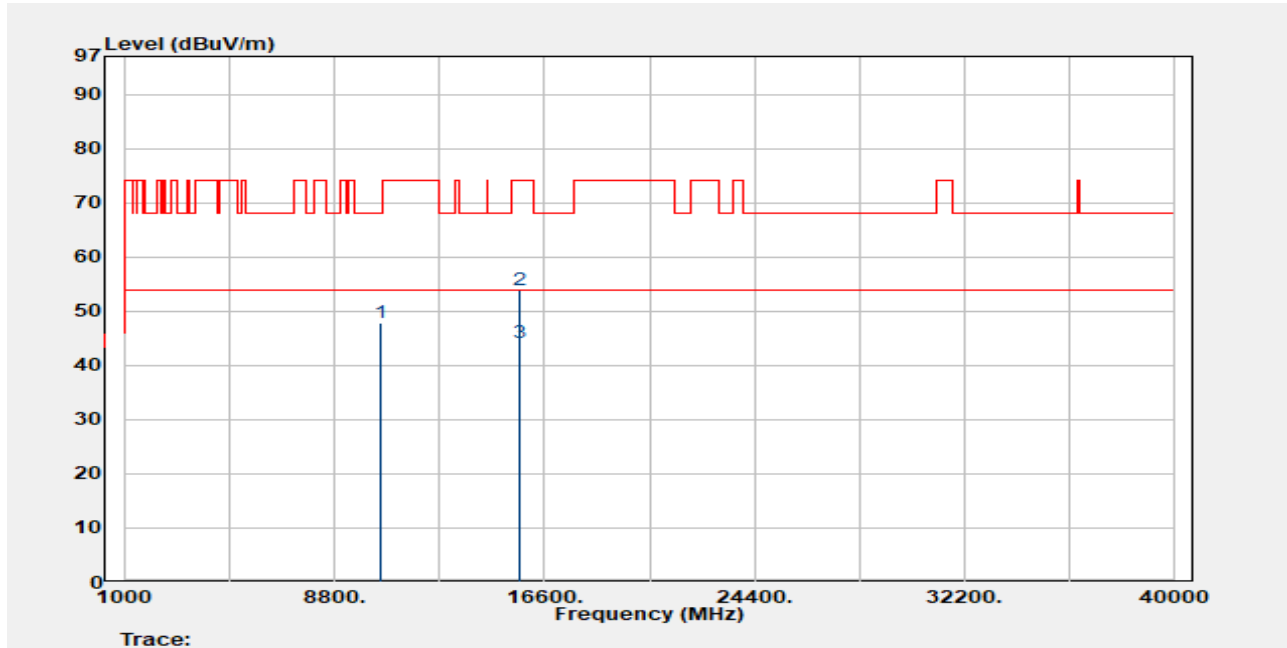
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5230 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10460.000	Peak	40.57	7.29	47.86	68.20	-20.34
15690.000	Peak	43.35	10.51	53.86	74.00	-20.14
15690.000	Average	33.68	10.51	44.19	54.00	-9.81

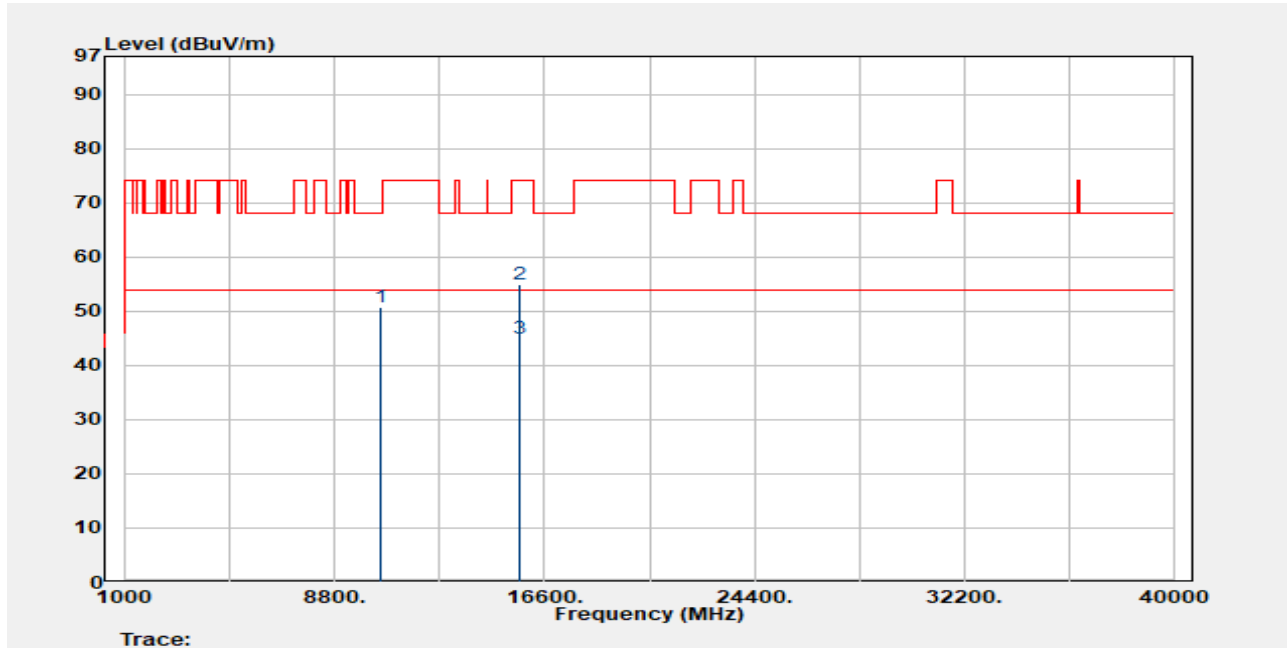
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5230 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10460.000	Peak	43.43	7.29	50.72	68.20	-17.48
15690.000	Peak	44.42	10.51	54.93	74.00	-19.07
15690.000	Average	34.40	10.51	44.91	54.00	-9.09

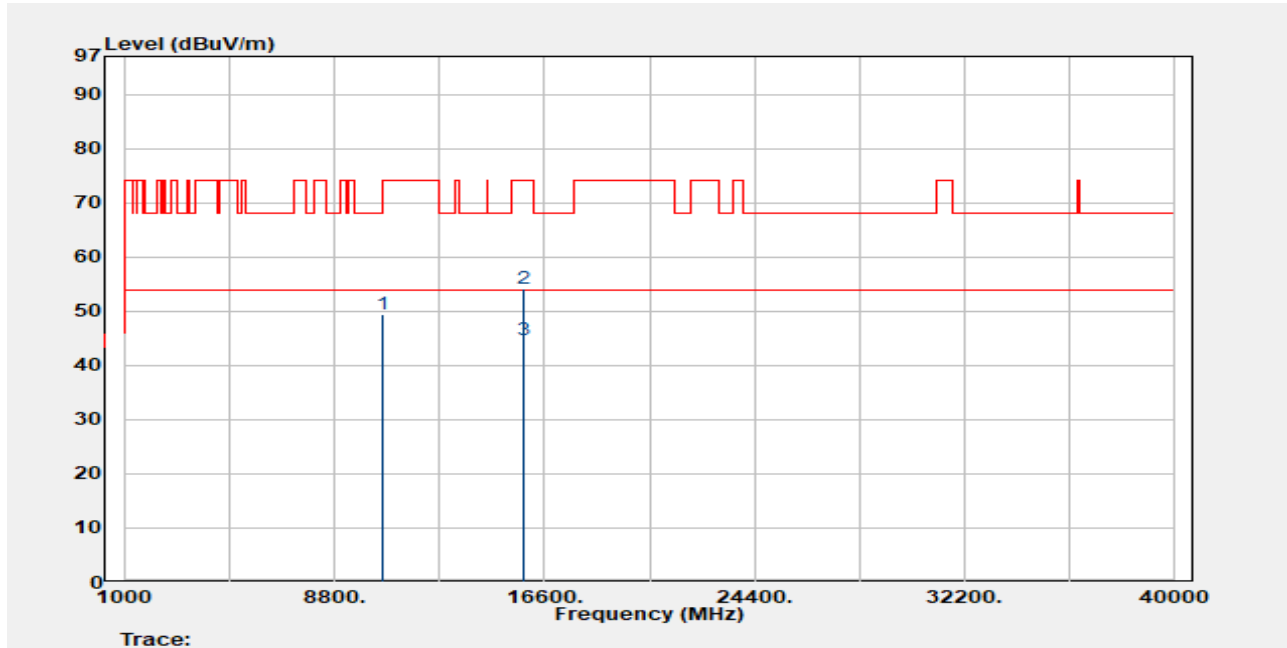
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5270 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10540.000	Peak	40.72	8.67	49.39	68.20	-18.81
15810.000	Peak	42.84	11.35	54.19	74.00	-19.81
15810.000	Average	33.24	11.35	44.59	54.00	-9.41

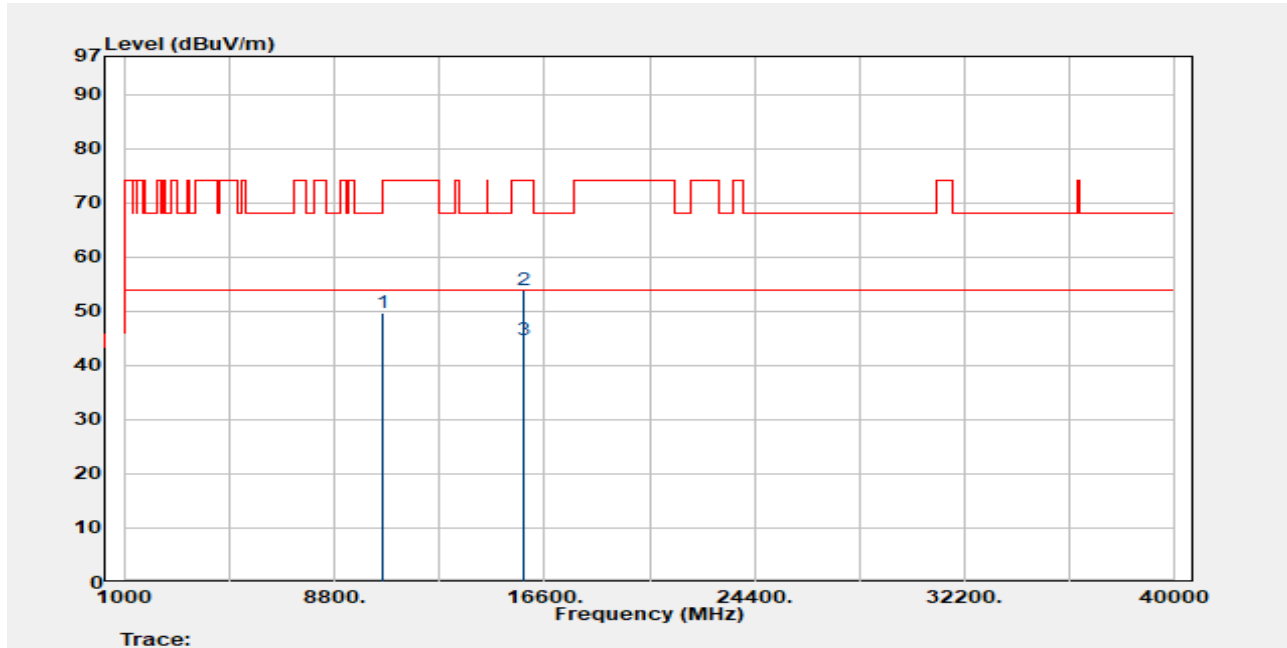
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5270 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10540.000	Peak	41.04	8.67	49.71	68.20	-18.49
15810.000	Peak	42.49	11.35	53.85	74.00	-20.15
15810.000	Average	33.27	11.35	44.62	54.00	-9.38

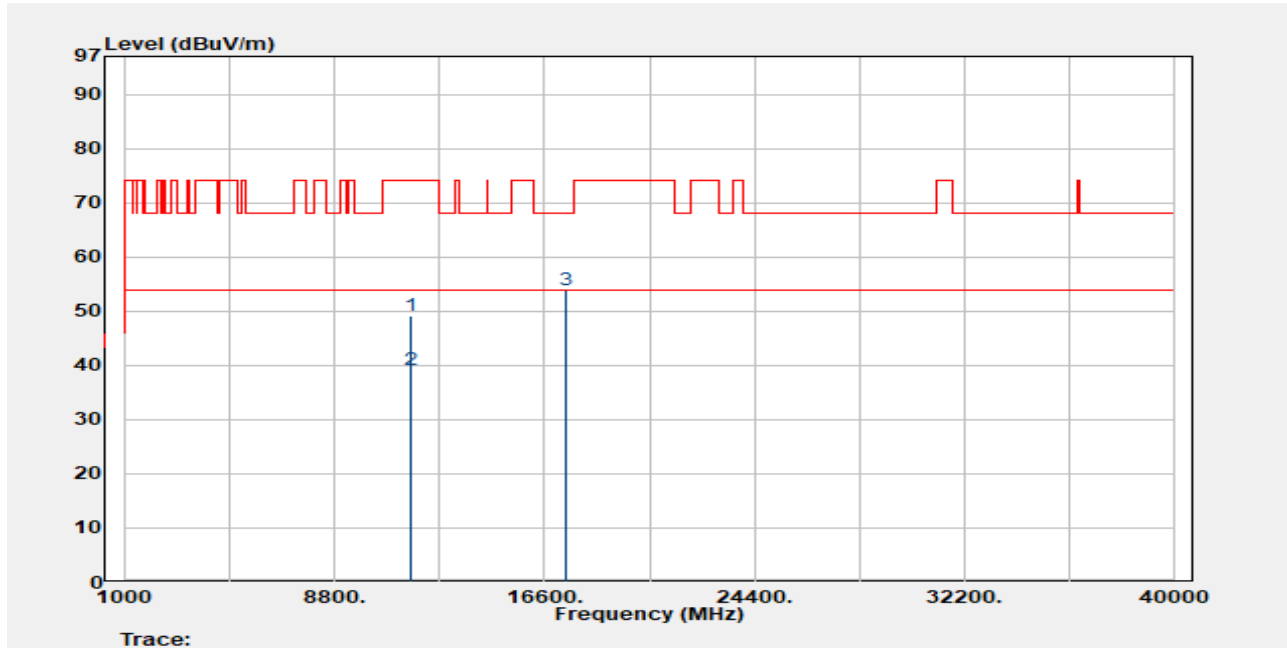
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5795 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11590.000	Peak	40.60	8.44	49.04	74.00	-24.96
11590.000	Average	30.82	8.44	39.26	54.00	-14.74
17385.000	Peak	45.29	8.71	54.00	68.20	-14.20

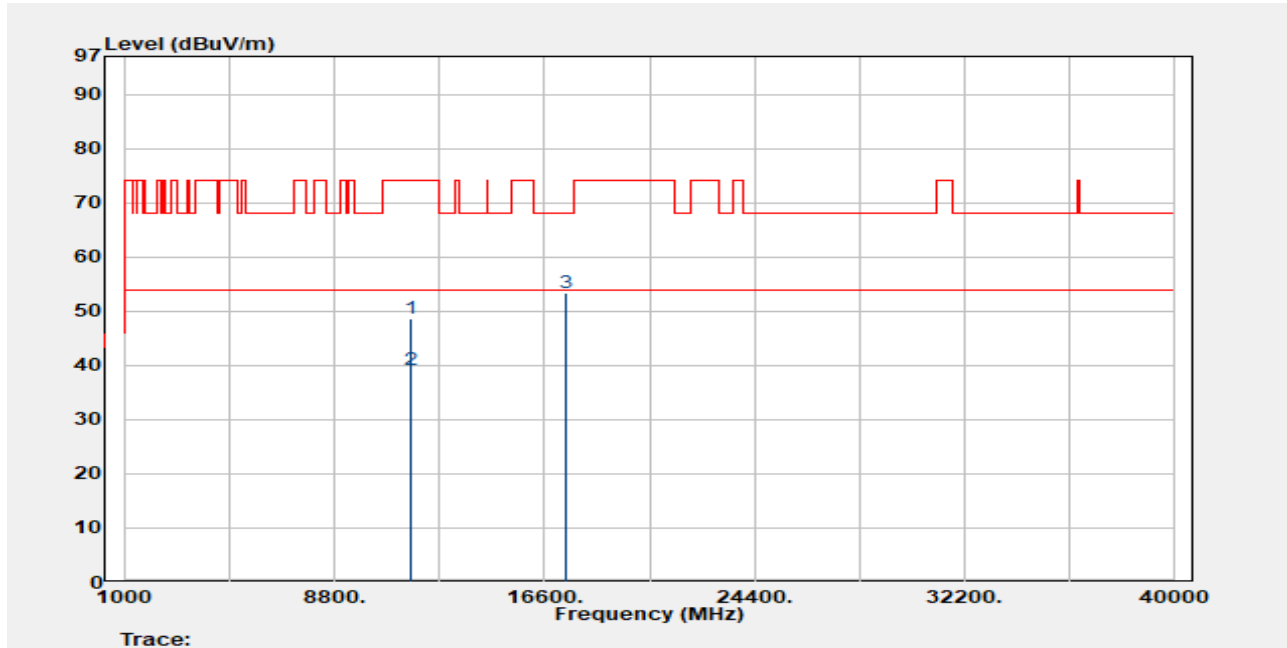
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5795 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11590.000	Peak	40.26	8.44	48.69	74.00	-25.31
11590.000	Average	30.79	8.44	39.23	54.00	-14.77
17385.000	Peak	44.69	8.71	53.40	68.20	-14.80

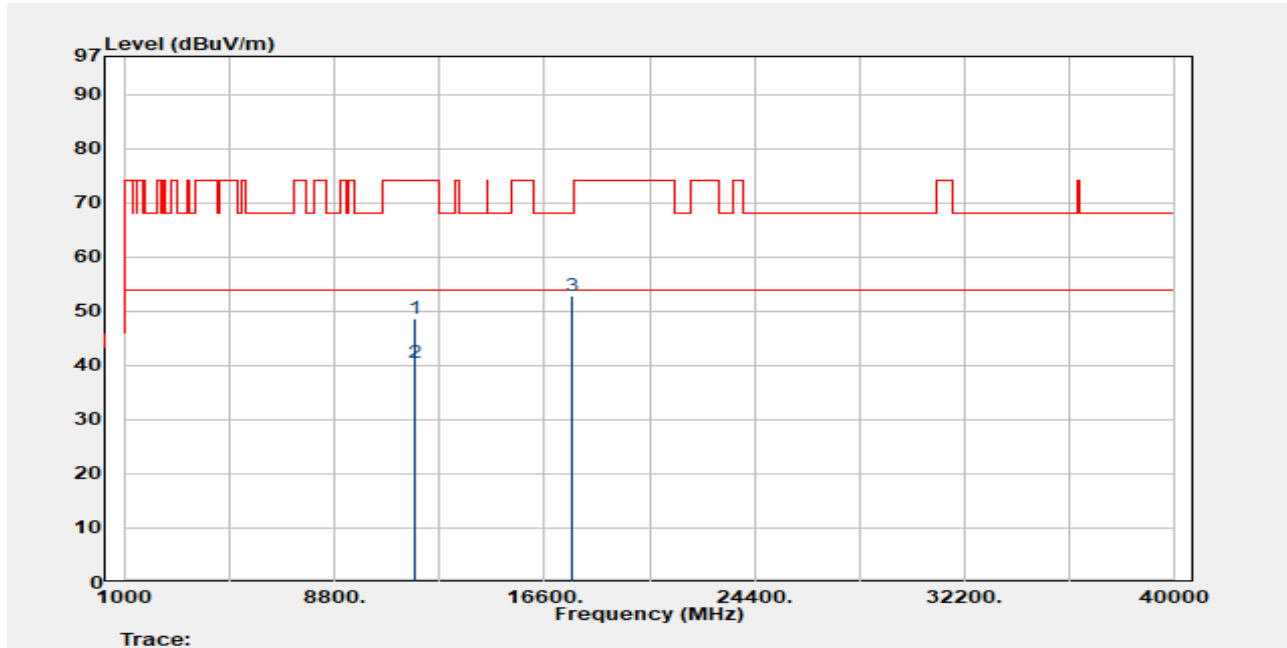
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5875 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11750.000	Peak	40.04	8.60	48.65	74.00	-25.35
11750.000	Average	31.83	8.60	40.43	54.00	-13.57
17625.000	Peak	43.83	9.09	52.92	68.20	-15.28

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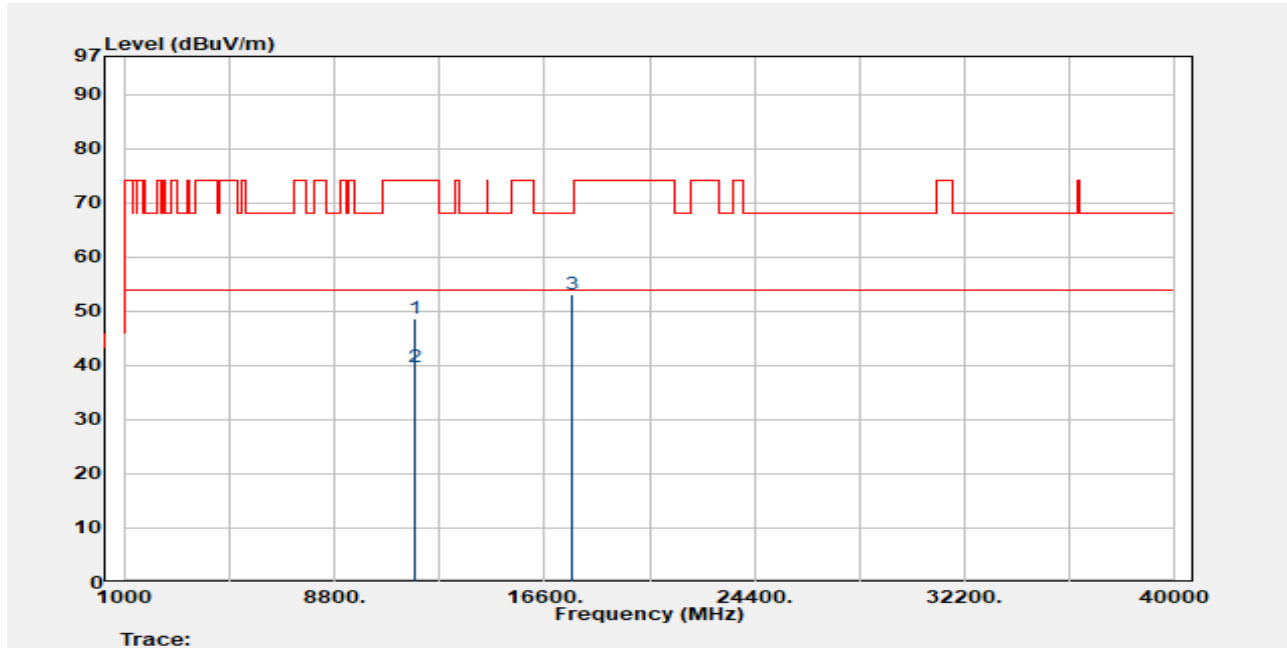
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax40 RU FULL  
 Test Frequency :5875 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11750.000	Peak	40.09	8.60	48.69	74.00	-25.31
11750.000	Average	31.15	8.60	39.75	54.00	-14.25
17625.000	Peak	44.11	9.09	53.20	68.20	-15.00

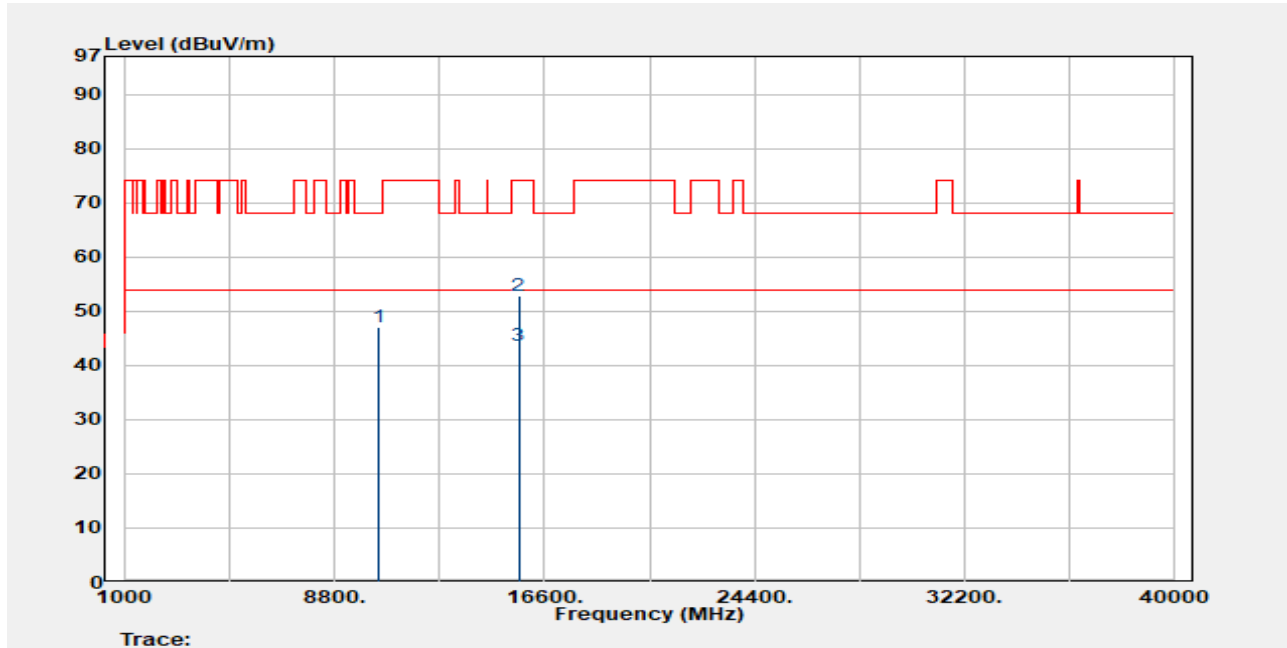
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5210 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10420.000	Peak	39.79	7.15	46.93	68.20	-21.27
15630.000	Peak	42.81	9.96	52.77	74.00	-21.23
15630.000	Average	33.67	9.96	43.63	54.00	-10.37

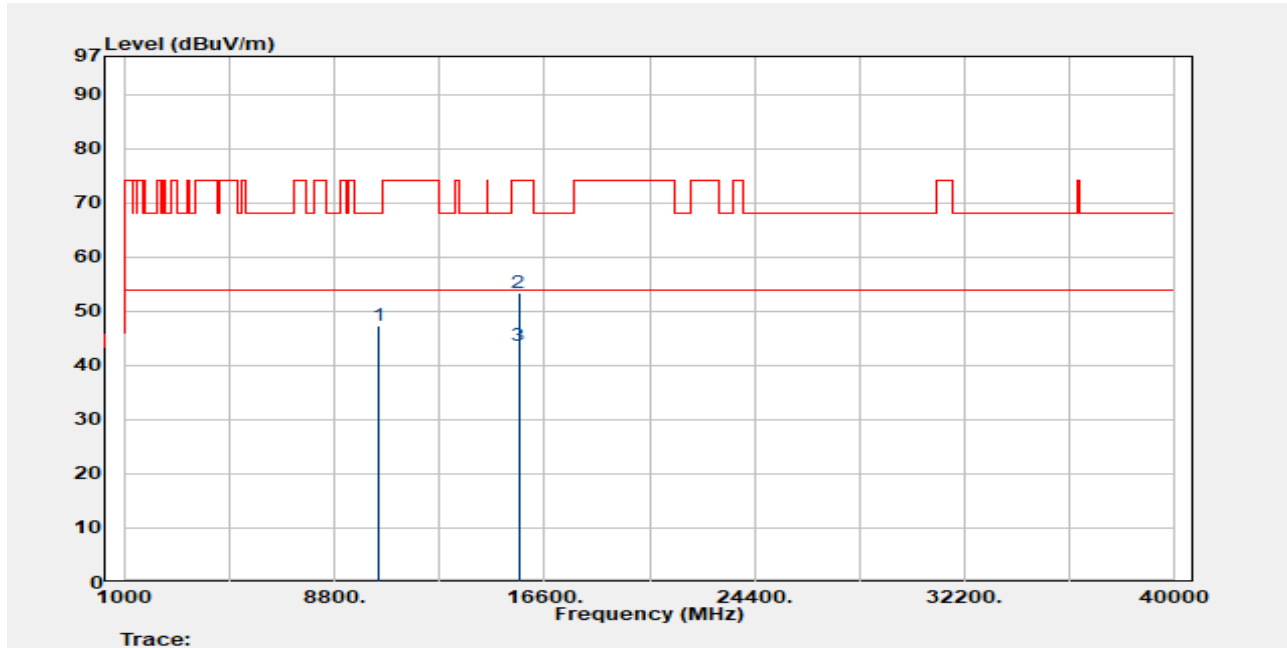
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5210 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10420.000	Peak	40.16	7.15	47.30	68.20	-20.90
15630.000	Peak	43.46	9.96	53.42	74.00	-20.58
15630.000	Average	33.71	9.96	43.67	54.00	-10.33

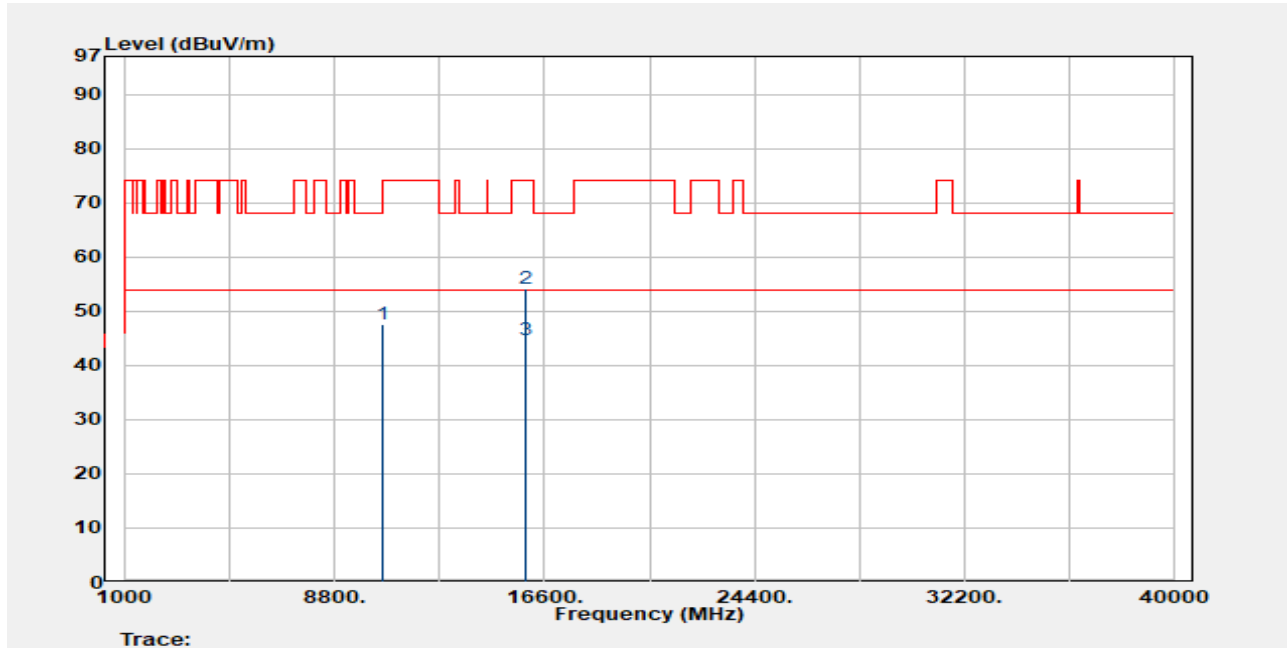
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5290 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10580.000	Peak	40.39	7.25	47.64	68.20	-20.56
15870.000	Peak	42.83	11.37	54.20	74.00	-19.80
15870.000	Average	33.27	11.37	44.64	54.00	-9.36

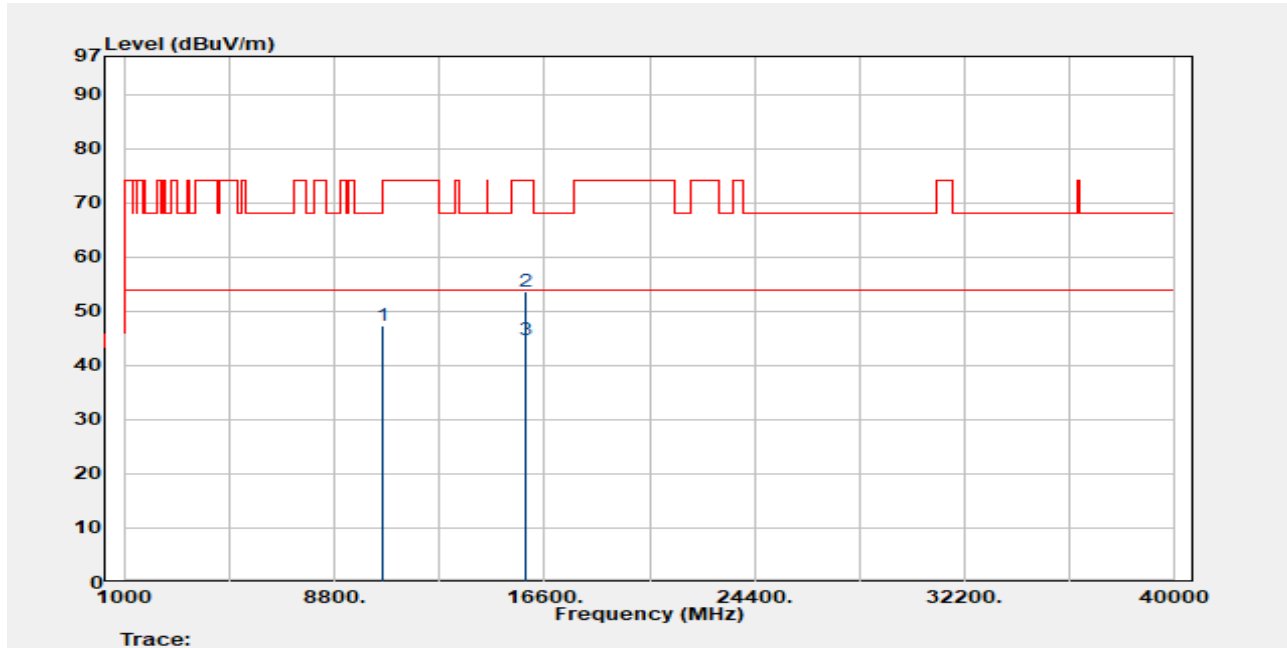
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5290 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10580.000	Peak	40.07	7.25	47.32	68.20	-20.88
15870.000	Peak	42.21	11.37	53.58	74.00	-20.42
15870.000	Average	33.33	11.37	44.70	54.00	-9.30

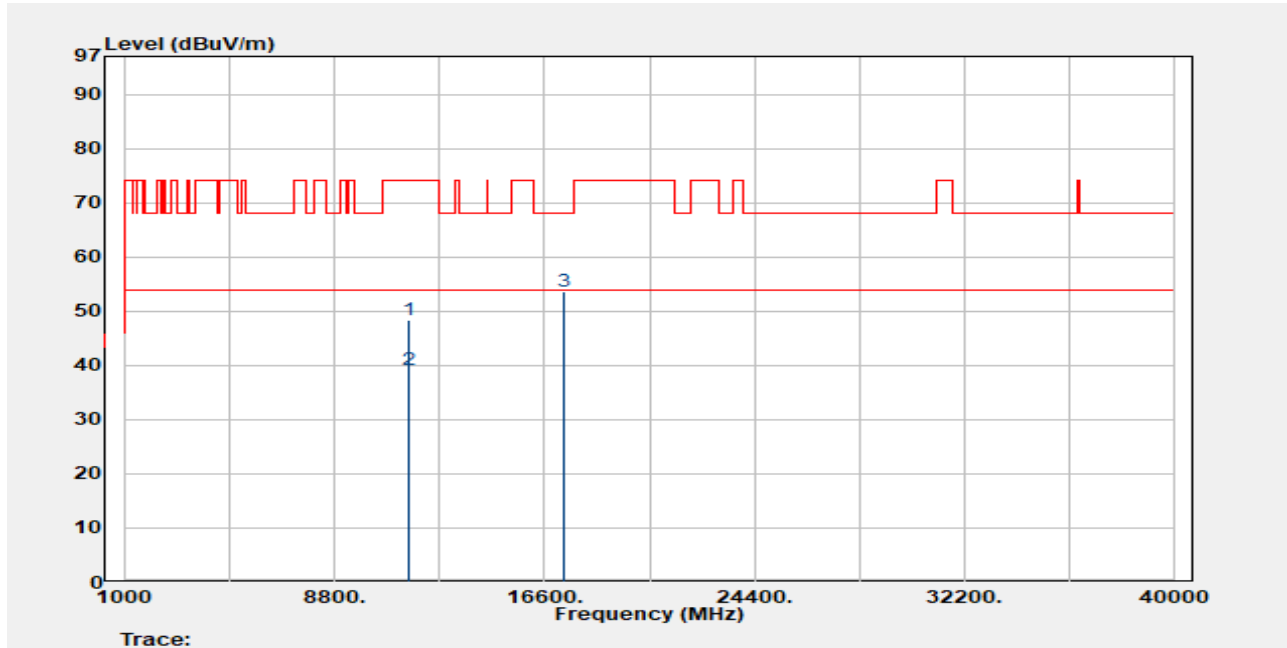
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5775 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11550.000	Peak	40.13	8.18	48.31	74.00	-25.69
11550.000	Average	31.02	8.18	39.20	54.00	-14.80
17325.000	Peak	44.39	9.35	53.74	68.20	-14.46

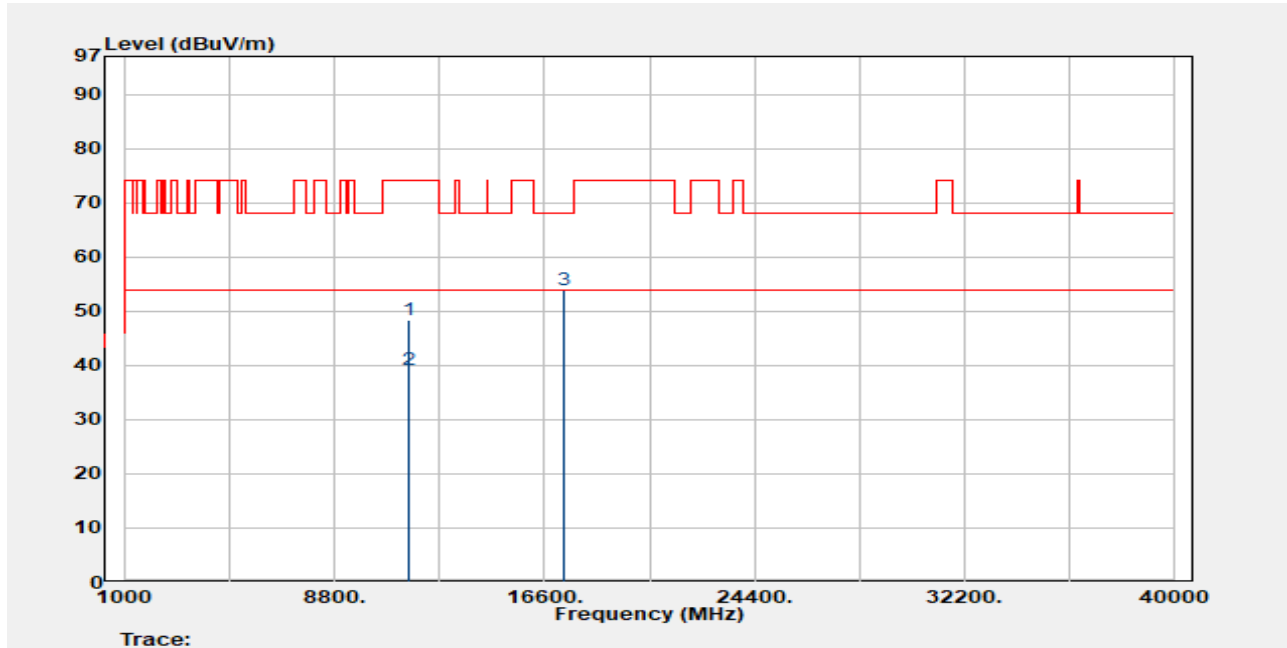
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5775 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11550.000	Peak	40.10	8.18	48.28	74.00	-25.72
11550.000	Average	31.02	8.18	39.20	54.00	-14.80
17325.000	Peak	44.42	9.35	53.77	68.20	-14.43

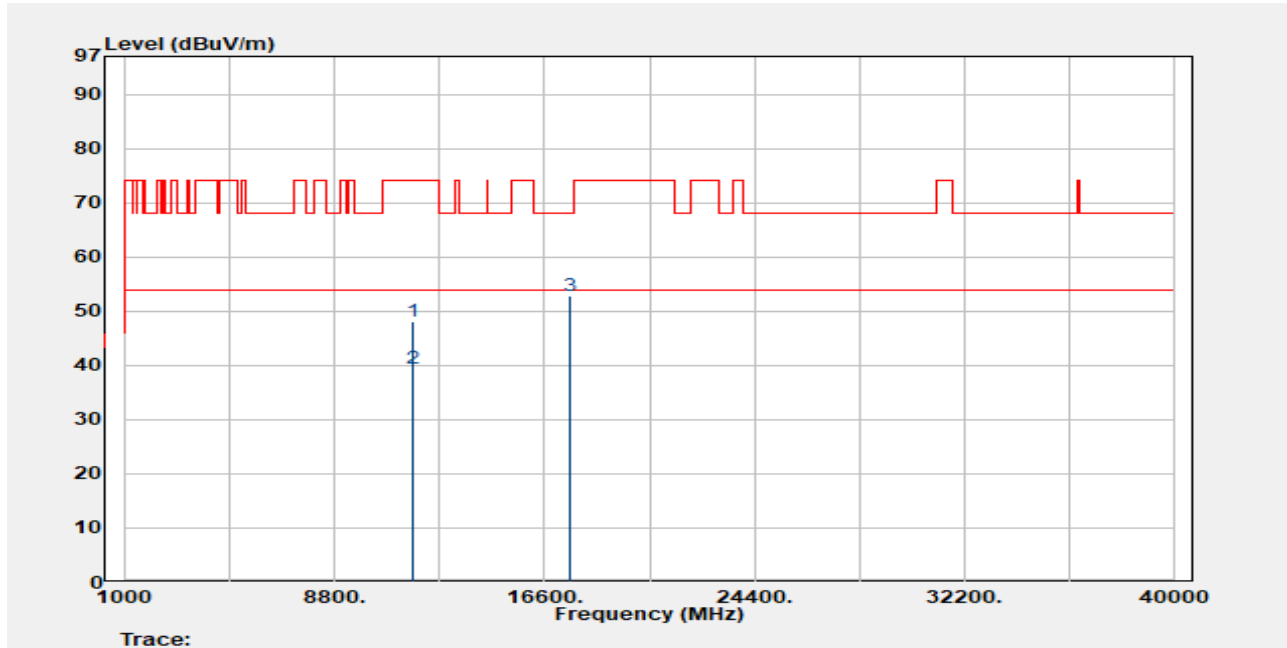
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5855 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11710.000	Peak	39.83	8.31	48.13	74.00	-25.87
11710.000	Average	31.15	8.31	39.46	54.00	-14.54
17565.000	Peak	44.67	8.26	52.93	68.20	-15.27

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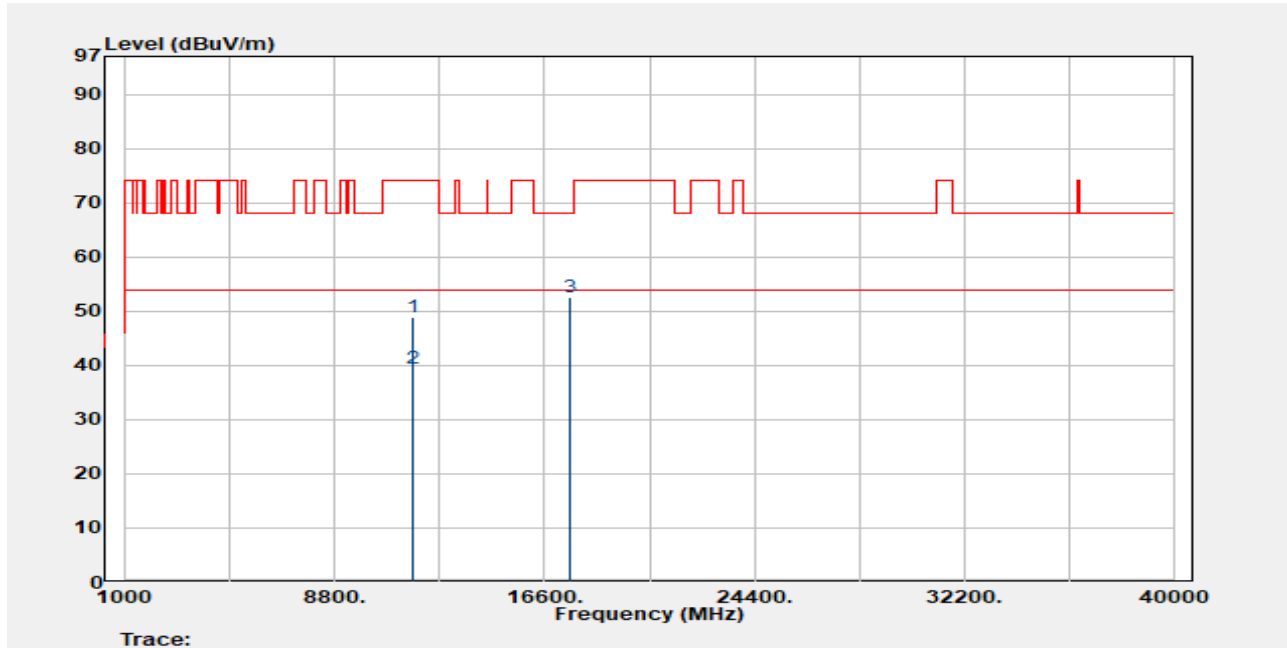
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax80 RU FULL  
 Test Frequency :5855 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11710.000	Peak	40.55	8.31	48.86	74.00	-25.14
11710.000	Average	31.05	8.31	39.36	54.00	-14.64
17565.000	Peak	44.30	8.26	52.56	68.20	-15.64

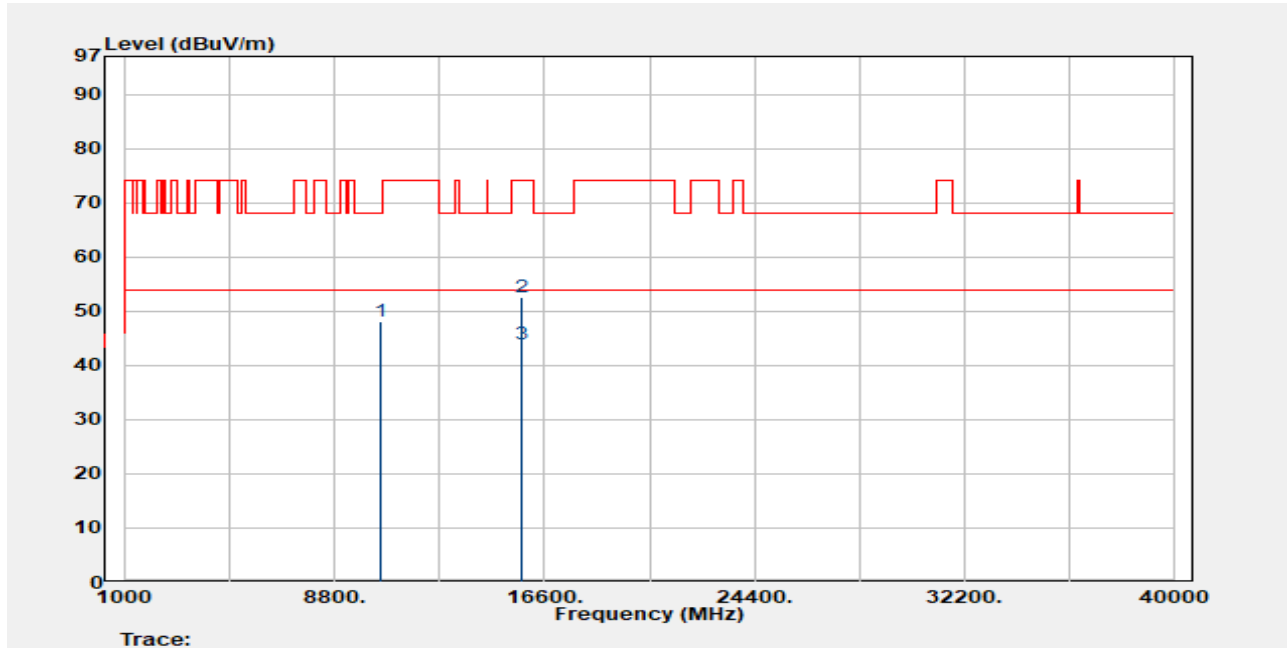
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax160 RU FULL  
 Test Frequency :5250 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10500.000	Peak	39.79	8.25	48.04	68.20	-20.16
15750.000	Peak	41.78	10.67	52.45	74.00	-21.55
15750.000	Average	33.33	10.67	44.00	54.00	-10.00

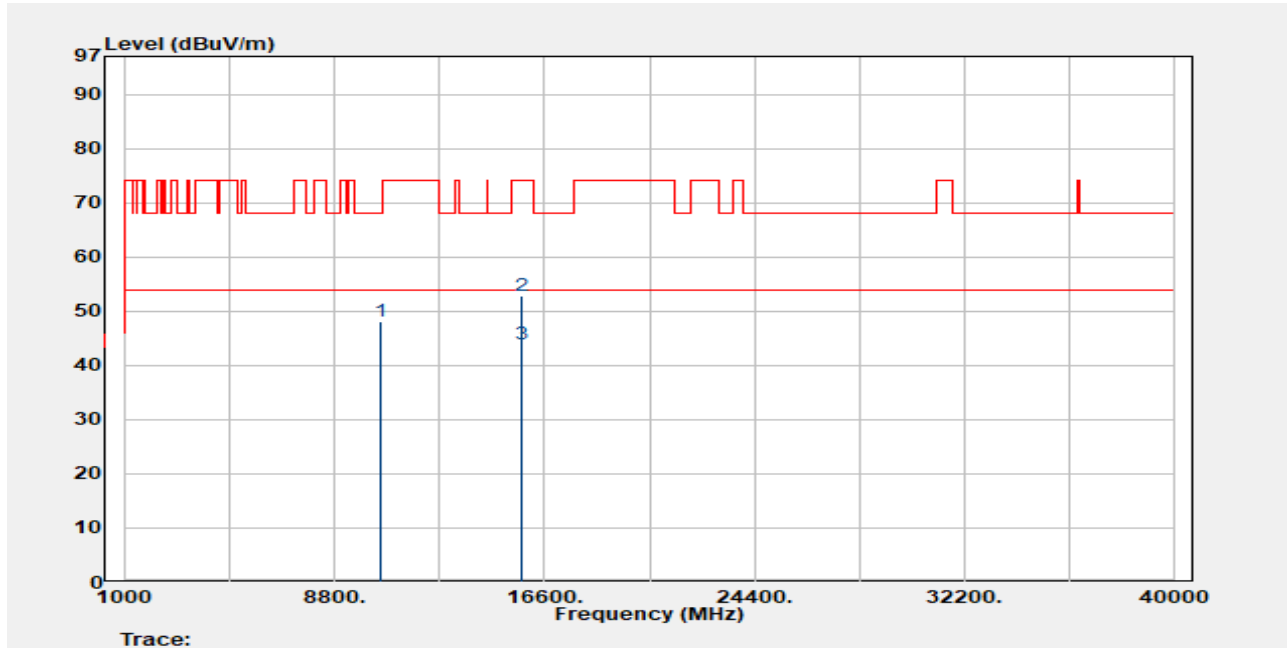
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax160 RU FULL  
 Test Frequency :5250 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10500.000	Peak	39.96	8.25	48.21	68.20	-19.99
15750.000	Peak	42.10	10.67	52.77	74.00	-21.23
15750.000	Average	33.30	10.67	43.97	54.00	-10.03

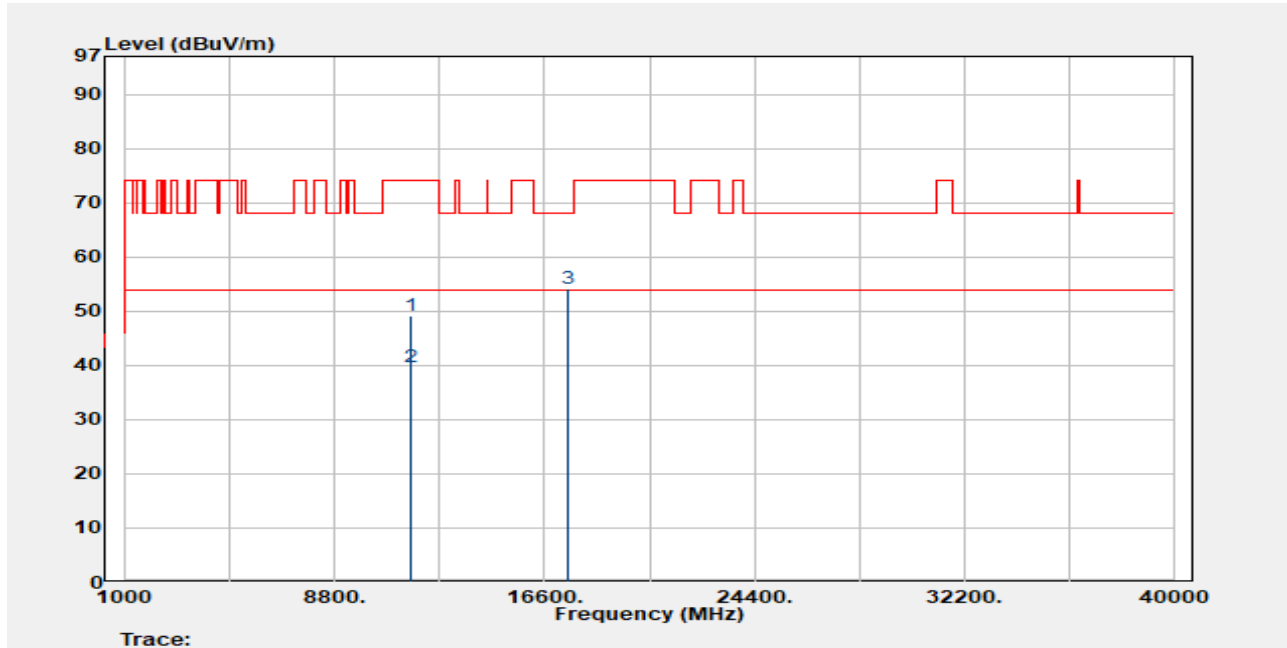
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax160 RU FULL  
 Test Frequency :5815 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11630.000	Peak	40.44	8.75	49.20	74.00	-24.80
11630.000	Average	31.02	8.75	39.77	54.00	-14.23
17445.000	Peak	44.59	9.65	54.24	68.20	-13.96

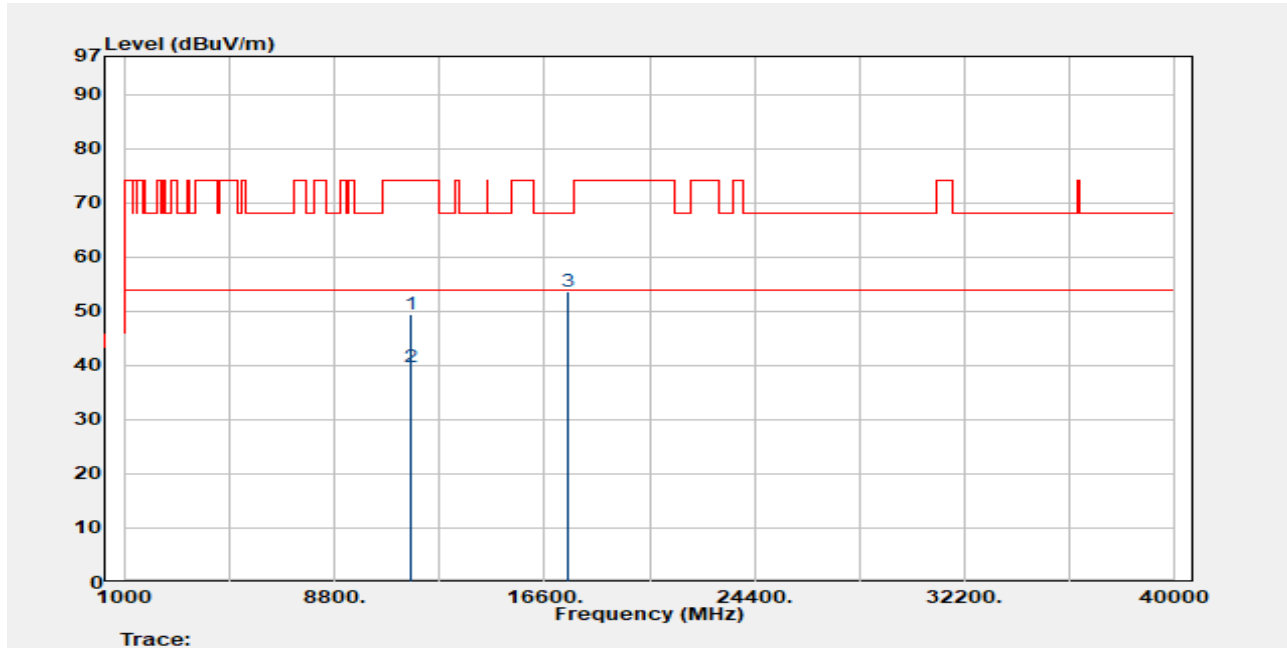
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Report Number :TERF2304001050ER  
 Operation Mode :802.11ax160 RU FULL  
 Test Frequency :5815 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-08-23  
 Temp./Humi. :26.3°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11630.000	Peak	40.59	8.75	49.34	74.00	-24.66
11630.000	Average	31.02	8.75	39.77	54.00	-14.23
17445.000	Peak	43.98	9.65	53.63	68.20	-14.57

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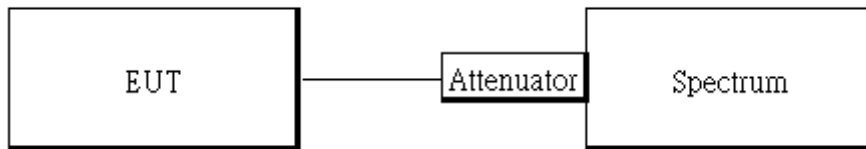
## 11 CONDUCTED BAND EDGE MEASUREMENT

### 11.1 Standard Applicable

For Band Edge measurements in average mode on the low frequency section, one of the two methods is used according to section G) 6) (KDB 789033 D02):

- 1) Method AD (Average Detection) as per paragraph II.G.6.c.
- 2) Method VB (Averaging using reduced video bandwidth) as per paragraph II.G.6.d.

### 11.2 Test Set-up



### 11.3 Measurement Result

Refer to next pages for the plots.

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802.11a

Channel	Frequency (MHz)	Setting	Raw Value(dBm)		Raw Value (dBm)	Antenna Peak Gain (dBi)		Antenna Peak Gain	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
			Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1	MIMO (Ch0+1)				Chain 0	Chain 1
36	5180	13.5	-43.07	-44.63	-40.77	2.460	2.460	5.47	-35.30	59.90	-14.10	74	PK
			-53.13	-54.32	-50.67	2.460	2.460	5.47	-45.20	50.00	-4.00	54	AV
64	5320	15	-44.44	-45.52	-41.94	2.482	2.482	5.49	-36.44	58.76	-15.24	74	PK
			-54.15	-55.10	-51.59	2.482	2.482	5.49	-46.10	49.10	-4.90	54	AV
100	5500	13.5	-46.88	-46.03	-43.42	4.900	4.900	7.91	-35.51	59.69	-14.31	74	PK
			-55.36	-55.83	-52.58	4.900	4.900	7.91	-44.67	50.53	-3.47	54	AV
140	5700	15	-45.29	-44.39	-41.81	4.900	4.900	7.91	-33.90	61.30	-6.90	68.2	PK
			-40.55	-42.36	-38.35	4.900	4.900	7.91	-30.44	64.76	-3.44	68.2	PK
144	5720	17	-48.28	-47.42	-44.82	4.900	4.900	7.91	-36.91	58.29	-15.71	74	PK
			-58.93	-58.25	-55.57	4.900	4.900	7.91	-47.66	47.54	-6.46	54	AV
149	5745	19	-50.64	-48.40	-46.37	4.900	4.900	7.91	-38.46	56.74	-11.46	68.2	PK
			-47.48	-46.86	-44.15	4.900	4.900	7.91	-36.24	58.96	-9.24	68.2	PK
149	5745	19	-44.43	-39.03	-37.93	4.600	4.600	7.61	-30.32	64.88	-3.32	68.2	PK
			-35.58	-32.61	-30.84	4.600	4.600	7.61	-23.23	71.97	-33.23	105.2	PK
165	5825	19.5	-28.01	-22.89	-21.73	4.600	4.600	7.61	-14.11	81.09	-29.71	110.8	PK
			-21.72	-16.81	-15.59	4.600	4.600	7.61	-7.98	87.22	-34.98	122.2	PK
177	5885	13.5	-22.17	-25.24	-20.43	4.600	4.600	7.61	-12.82	82.38	-39.82	122.2	PK
			-29.02	-29.45	-26.22	4.600	4.600	7.61	-18.61	76.59	-34.21	110.8	PK
177	5885	13.5	-32.59	-35.70	-30.86	4.600	4.600	7.61	-23.25	71.95	-33.25	105.2	PK
			-39.63	-44.19	-38.33	4.600	4.600	7.61	-30.72	64.48	-3.72	68.2	PK
177	5885	13.5	-28.02	-26.59	-24.24	4.100	4.100	7.11	-17.13	79.07	-31.13	110.2	AV
			-56.37	-55.97	-53.16	4.100	4.100	7.11	-46.04	51.16	-37.04	88.2	AV

802.11n 20M

Channel	Frequency (MHz)	Setting	Raw Value(dBm)		Raw Value (dBm)	Antenna Peak Gain (dBi)		Antenna Peak Gain	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
			Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1	MIMO (Ch0+1)				Chain 0	Chain 1
36	5180	13.5	-44.32	-43.00	-40.60	2.460	2.460	5.47	-35.13	60.07	-13.93	74	PK
			-53.66	-54.89	-51.22	2.460	2.460	5.47	-45.75	49.45	-4.55	54	AV
64	5320	14.5	-42.14	-45.72	-40.56	2.482	2.482	5.49	-35.07	60.13	-13.87	74	PK
			-53.53	-55.47	-51.38	2.482	2.482	5.49	-45.89	49.31	-4.69	54	AV
100	5500	14	-44.30	-45.72	-41.94	4.900	4.900	7.91	-34.03	61.17	-12.83	74	PK
			-55.06	-55.89	-52.44	4.900	4.900	7.91	-44.53	50.67	-3.33	54	AV
140	5700	14.5	-44.19	-44.14	-41.15	4.900	4.900	7.91	-33.24	61.96	-6.24	68.2	PK
			-40.83	-42.59	-38.61	4.900	4.900	7.91	-30.70	64.50	-3.70	68.2	PK
144	5720	17	-47.49	-47.11	-44.29	4.900	4.900	7.91	-36.38	58.82	-15.18	74	PK
			-58.99	-58.30	-55.62	4.900	4.900	7.91	-47.71	47.49	-6.51	54	AV
149	5745	18	-49.00	-49.92	-46.43	4.900	4.900	7.91	-38.52	56.68	-11.52	68.2	PK
			-48.09	-47.15	-44.58	4.900	4.900	7.91	-36.67	58.53	-9.67	68.2	PK
149	5745	18	-46.43	-44.42	-42.30	4.600	4.600	7.61	-34.69	60.51	-7.69	68.2	PK
			-39.86	-37.26	-35.36	4.600	4.600	7.61	-27.75	67.45	-37.75	105.2	PK
165	5825	18	-34.72	-27.65	-26.87	4.600	4.600	7.61	-19.26	75.94	-34.86	110.8	PK
			-29.07	-21.93	-21.16	4.600	4.600	7.61	-13.55	81.65	-40.55	122.2	PK
165	5825	18	-32.39	-32.74	-29.55	4.600	4.600	7.61	-21.94	73.26	-48.94	122.2	PK
			-40.08	-34.95	-33.79	4.600	4.600	7.61	-26.18	69.02	-41.78	110.8	PK
177	5885	14	-45.10	-41.46	-39.90	4.600	4.600	7.61	-32.29	62.91	-42.29	105.2	PK
			-47.26	-45.43	-43.24	4.600	4.600	7.61	-35.63	59.57	-8.63	68.2	PK
177	5885	14	-19.82	-18.05	-15.84	4.100	4.100	7.11	-8.72	87.48	-22.72	110.2	AV
			-56.34	-56.12	-53.22	4.100	4.100	7.11	-46.11	51.09	-37.11	88.2	AV

802.11n 40M

Channel	Frequency (MHz)	Setting	Raw Value(dBm)		Raw Value (dBm)	Antenna Peak Gain (dBi)		Antenna Peak Gain	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
			Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1	MIMO (Ch0+1)				Chain 0	Chain 1
38	5190	10	-41.67	-43.74	-39.57	2.460	2.460	5.47	-34.10	61.10	-12.90	74	PK
			-53.68	-55.16	-51.35	2.460	2.460	5.47	-45.88	49.32	-4.68	54	AV
62	5310	11	-45.22	-45.46	-42.33	2.482	2.482	5.49	-36.84	58.36	-15.64	74	PK
			-54.07	-54.79	-51.40	2.482	2.482	5.49	-45.91	49.29	-4.71	54	AV
102	5510	10.5	-46.41	-45.84	-43.11	4.900	4.900	7.91	-35.20	60.00	-14.00	74	PK
			-55.68	-55.73	-52.69	4.900	4.900	7.91	-44.78	50.42	-3.58	54	AV
134	5670	15	-42.97	-44.31	-40.58	4.900	4.900	7.91	-32.67	62.53	-5.67	68.2	PK
			-40.80	-41.67	-38.20	4.900	4.900	7.91	-30.29	64.91	-3.29	68.2	PK
142	5710	16	-46.60	-47.68	-44.10	4.900	4.900	7.91	-36.19	59.01	-14.99	74	PK
			-58.79	-58.00	-55.37	4.900	4.900	7.91	-47.46	47.74	-6.26	54	AV
151	5755	17	-48.18	-49.60	-45.82	4.900	4.900	7.91	-37.91	57.29	-10.91	68.2	PK
			-46.42	-45.34	-42.84	4.900	4.900	7.91	-34.93	60.27	-7.93	68.2	PK
159	5795	17.5	-42.31	-41.62	-38.94	4.600	4.600	7.61	-31.33	63.87	-4.33	68.2	PK
			-38.52	-39.17	-35.82	4.600	4.600	7.61	-28.21	66.99	-38.21	105.2	PK
175	5875	16	-29.99	-30.52	-27.24	4.600	4.600	7.61	-19.63	75.57	-35.23	110.8	PK
			-30.45	-27.06	-25.42	4.600	4.600	7.61	-17.81	77.39	-44.81	122.2	PK
175	5875	16	-40.38	-37.70	-35.83	4.600	4.600	7.61	-28.22	66.98	-55.22	122.2	PK
			-40.26	-37.00	-35.32	4.600	4.600	7.61	-27.71	67.49	-43.31	110.8	PK
175	5875	16	-43.11	-42.00	-39.51	4.600	4.600	7.61	-31.90	63.30	-41.90	105.2	PK
			-45.44	-43.39	-41.28	4.600	4.600	7.61	-33.67	61.53	-6.67	68.2	PK
175	5875	16	-28.67	-27.90	-25.26	4.100	4.100	7.11	-18.15	77.05	-33.15	110.2	AV
			-50.25	-50.46	-47.34	4.100	4.100	7.11	-40.23	54.97	-33.23	88.2	AV

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802.11ac 80M

Channel	Frequency (MHz)	Setting	Raw Value(dBm)		Raw Value (dBm)	Antenna Peak Gain (dBi)		Antenna Peak Gain	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
			Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1	MIMO (Ch0+1)				Chain 0	Chain 1
42	5210	11.5	-43.36	-42.39	-39.84	2.460	2.460	5.47	-34.37	60.83	-13.17	74	PK
			-54.18	-53.29	-50.70	2.460	2.460	5.47	-45.23	49.97	-4.03	54	AV
58	5290	11.5	-44.71	-43.81	-41.23	2.482	2.482	5.49	-35.73	59.47	-14.53	74	PK
			-54.36	-55.50	-51.88	2.482	2.482	5.49	-46.39	48.81	-5.19	54	AV
106	5530	10	-45.83	-43.92	-41.76	4.900	4.900	7.91	-33.85	61.35	-12.65	74	PK
			-55.42	-55.15	-52.27	4.900	4.900	7.91	-44.36	50.84	-3.16	54	AV
122	5610	15.5	-45.42	-44.04	-41.67	4.900	4.900	7.91	-33.75	61.45	-6.75	68.2	PK
			-41.21	-41.87	-38.52	4.900	4.900	7.91	-30.61	64.59	-3.61	68.2	PK
138	5690	16	-46.82	-45.40	-43.04	4.900	4.900	7.91	-35.13	60.07	-13.93	74	PK
			-57.45	-56.74	-54.07	4.900	4.900	7.91	-46.16	49.04	-4.96	54	AV
			-47.86	-46.34	-44.02	4.900	4.900	7.91	-36.11	59.09	-9.11	68.2	PK
			-45.68	-44.22	-41.88	4.900	4.900	7.91	-33.97	61.23	-6.97	68.2	PK
155	5775	14.5	-41.90	-40.43	-38.09	4.600	4.600	7.61	-30.48	64.72	-3.48	68.2	PK
			-39.12	-39.76	-36.42	4.600	4.600	7.61	-28.81	66.39	-38.81	105.2	PK
			-36.19	-36.33	-33.25	4.600	4.600	7.61	-25.64	69.56	-41.24	110.8	PK
			-34.09	-37.20	-32.36	4.600	4.600	7.61	-24.75	70.45	-51.75	122.2	PK
			-39.63	-39.20	-36.40	4.600	4.600	7.61	-28.79	66.41	-55.79	122.2	PK
			-39.96	-40.97	-37.43	4.600	4.600	7.61	-29.82	65.38	-45.42	110.8	PK
			-41.69	-41.93	-38.80	4.600	4.600	7.61	-31.19	64.01	-41.19	105.2	PK
			-46.62	-43.86	-42.01	4.600	4.600	7.61	-34.40	60.80	-7.40	68.2	PK
171	5855	17	-29.10	-28.43	-25.74	4.100	4.100	7.11	-18.63	76.57	-33.63	110.2	AV
			-40.96	-40.02	-37.45	4.100	4.100	7.11	-30.34	64.86	-23.34	88.2	AV

802.11ac 160M

Channel	Frequency (MHz)	Setting	Raw Value(dBm)		Raw Value (dBm)	Antenna Peak Gain (dBi)		Antenna Peak Gain	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
			Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1	MIMO (Ch0+1)				Chain 0	Chain 1
50	5250	7	-43.86	-44.13	-40.98	2.460	2.460	5.47	-35.51	59.69	-14.31	74	PK
			-54.68	-54.26	-51.45	2.460	2.460	5.47	-45.98	49.22	-4.78	54	AV
			-45.32	-45.46	-42.38	2.460	2.460	5.47	-36.91	58.29	-15.71	74	PK
			-55.79	-54.92	-52.32	2.460	2.460	5.47	-46.85	48.35	-5.65	54	AV
114	5570	6.5	-44.46	-43.70	-41.05	4.900	4.900	7.91	-33.14	62.06	-11.94	74	PK
			-55.10	-55.25	-52.16	4.900	4.900	7.91	-44.25	50.95	-3.05	54	AV
			-45.19	-46.67	-42.86	4.900	4.900	7.91	-34.95	60.25	-7.95	68.2	PK
163	5815	12	-44.63	-44.47	-41.54	4.900	4.900	7.91	-33.63	61.57	-6.63	68.2	PK
			-38.83	-37.08	-34.86	4.600	4.600	7.61	-27.25	67.95	-42.25	110.2	AV
			-46.23	-43.65	-41.74	4.600	4.600	7.61	-34.13	61.07	-27.13	88.2	AV

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802.11ax 20M

Channel	Frequency (MHz)	RU Config	Setting	Raw Value(dBm)		Raw Value (dBm)	Antenna Peak Gain (dBi)		Antenna Peak Gain	EIRP Combine (dBm)	Emission Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	
				Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1	MIMO (Ch0+1)				Chain 0	Chain 1
36	5180	Full	12	-45.16	-43.71	-41.36	2.460	2.460	5.47	-35.89	59.31	-14.69	74	PK
				-54.00	-54.27	-51.12	2.460	2.460	5.47	-45.65	49.55	-4.45	54	AV
		26/0	11	-44.20	-43.06	-40.58	2.460	2.460	5.47	-35.11	60.09	-13.91	74	PK
				-54.52	-53.58	-51.01	2.460	2.460	5.47	-45.54	49.66	-4.34	54	AV
		52/37	11	-44.14	-43.35	-40.72	2.460	2.460	5.47	-35.25	59.95	-14.05	74	PK
106/53	11	-54.61	-53.33	-50.91	2.460	2.460	5.47	-45.44	49.76	-4.24	54	AV		
64	5320	Full	14	-44.56	-43.78	-41.14	2.460	2.460	5.47	-35.67	59.53	-14.47	74	PK
				-55.51	-54.82	-52.14	2.460	2.460	5.47	-46.67	48.53	-5.47	54	AV
		26/8	12	-44.43	-46.47	-42.32	2.482	2.482	5.49	-36.83	58.37	-15.63	74	PK
				-55.13	-54.77	-51.94	2.482	2.482	5.49	-46.44	48.76	-5.24	54	AV
		52/40	13	-42.85	-41.16	-38.91	2.482	2.482	5.49	-33.42	61.78	-12.22	74	PK
				-55.38	-54.59	-51.96	2.482	2.482	5.49	-46.46	48.74	-5.26	54	AV
		106/54	13	-39.84	-33.18	-32.33	2.482	2.482	5.49	-26.84	68.36	-5.64	74	PK
-54.43	-54.39			-51.40	2.482	2.482	5.49	-45.91	49.29	-4.71	54	AV		
100	5500	Full	13	-37.40	-32.48	-31.27	2.482	2.482	5.49	-25.78	69.42	-4.58	74	PK
				-55.77	-55.65	-52.70	2.482	2.482	5.49	-47.21	47.99	-6.01	54	AV
		26/0	9.5	-46.91	-44.98	-42.83	4.900	4.900	7.91	-34.92	60.28	-13.72	74	PK
				-56.62	-55.66	-53.10	4.900	4.900	7.91	-45.19	50.01	-3.99	54	AV
		52/37	10.5	-41.24	-43.24	-39.12	4.900	4.900	7.91	-31.21	63.99	-4.21	68.2	PK
				-42.43	-41.94	-39.17	4.900	4.900	7.91	-31.26	63.94	-10.06	74	PK
		106/53	10	-55.13	-55.86	-52.47	4.900	4.900	7.91	-44.56	50.64	-3.36	54	AV
				-45.82	-42.76	-41.02	4.900	4.900	7.91	-33.11	62.09	-6.11	68.2	PK
		Full	12	-44.28	-43.41	-40.81	4.900	4.900	7.91	-32.90	62.30	-11.70	74	PK
				-55.86	-54.58	-52.16	4.900	4.900	7.91	-44.25	50.95	-3.05	54	AV
		26/8	9	-45.31	-42.81	-40.87	4.900	4.900	7.91	-32.96	62.24	-5.96	68.2	PK
-46.59	-45.59			-43.05	4.900	4.900	7.91	-35.14	60.06	-13.94	74	PK		
52/40	8.5	-57.55	-57.12	-54.32	4.900	4.900	7.91	-46.41	48.79	-5.21	54	AV		
		-46.50	-42.12	-40.77	4.900	4.900	7.91	-32.86	62.34	-5.86	68.2	PK		
106/54	7.5	-40.14	-42.05	-37.98	4.900	4.900	7.91	-30.07	65.13	-3.07	68.2	PK		
		-41.25	-41.86	-38.53	4.900	4.900	7.91	-30.62	64.58	-3.62	68.2	PK		
140	5700	Full	9	-43.79	-44.36	-41.06	4.900	4.900	7.91	-33.15	62.05	-6.15	68.2	PK
				-43.79	-41.67	-39.59	4.900	4.900	7.91	-31.68	63.52	-4.68	68.2	PK
		26/8	17	-47.79	-47.05	-44.39	4.900	4.900	7.91	-36.48	58.72	-15.28	74	PK
				-59.01	-58.00	-55.47	4.900	4.900	7.91	-47.56	47.64	-6.36	54	AV
		52/40	8.5	-49.91	-50.72	-47.29	4.900	4.900	7.91	-39.38	55.82	-12.38	68.2	PK
				-47.96	-47.01	-44.45	4.900	4.900	7.91	-36.54	58.66	-9.54	68.2	PK
		106/54	7.5	-44.56	-44.05	-41.29	4.600	4.600	7.61	-33.68	61.52	-6.68	68.2	PK
-35.44	-36.55			-32.95	4.600	4.600	7.61	-25.34	69.86	-35.34	105.2	PK		
149	5745	Full	18	-27.15	-22.20	-20.99	4.600	4.600	7.61	-13.38	81.82	-28.98	110.8	PK
				-23.45	-18.80	-17.52	4.600	4.600	7.61	-9.91	85.29	-36.91	122.2	PK
		26/0	14	-42.67	-39.24	-37.61	4.600	4.600	7.61	-30.00	65.20	-3.00	68.2	PK
				-21.97	-15.77	-14.84	4.600	4.600	7.61	-7.23	87.97	-17.23	105.2	PK
		52/37	13.5	-23.03	-19.35	-17.80	4.600	4.600	7.61	-10.19	85.01	-25.79	110.8	PK
				-27.00	-12.11	-11.97	4.600	4.600	7.61	-4.36	90.84	-31.36	122.2	PK
		106/53	15	-15.25	-3.450	-3.17	4.600	4.600	7.61	4.44	100.64	-5.55	106.19	PK
				-45.49	-39.50	-38.52	4.600	4.600	7.61	-30.91	64.29	-3.91	68.2	PK
		Full	18	-43.67	-26.77	-26.68	4.600	4.600	7.61	-19.07	76.13	-29.07	105.2	PK
				-27.75	-24.20	-22.61	4.600	4.600	7.61	-15.00	80.20	-30.60	110.8	PK
		26/8	15.5	-25.21	-23.02	-20.97	4.600	4.600	7.61	-13.36	81.84	-40.36	122.2	PK
				-27.75	-16.30	-16.00	4.600	4.600	7.61	-8.39	87.81	-19.77	107.58	PK
		52/40	15	-45.48	-39.90	-38.84	4.600	4.600	7.61	-31.23	63.97	-4.23	68.2	PK
				-40.54	-27.19	-26.99	4.600	4.600	7.61	-19.38	75.82	-29.38	105.2	PK
		106/54	15.5	-23.37	-17.11	-16.19	4.600	4.600	7.61	-8.58	86.62	-24.18	110.8	PK
				-27.01	-15.59	-15.29	4.600	4.600	7.61	-7.68	87.52	-34.68	122.2	PK
		Full	18	-22.74	-13.99	-13.45	4.600	4.600	7.61	-5.84	90.36	-19.74	110.10	PK
				-29.61	-25.17	-23.84	4.600	4.600	7.61	-16.23	78.97	-43.23	122.2	PK
		26/8	15.5	-32.90	-31.13	-28.92	4.600	4.600	7.61	-21.30	73.90	-36.90	110.8	PK
				-36.43	-38.00	-34.13	4.600	4.600	7.61	-26.52	68.68	-36.52	105.2	PK
		52/40	15	-40.51	-44.92	-39.17	4.600	4.600	7.61	-31.56	63.64	-4.56	68.2	PK
				-18.78	-17.67	-15.18	4.600	4.600	7.61	-7.57	87.63	-34.57	122.2	PK
		106/54	15.5	-32.20	-25.38	-24.56	4.600	4.600	7.61	-16.95	78.25	-32.55	110.8	PK
				-36.53	-26.59	-26.17	4.600	4.600	7.61	-18.56	76.64	-28.56	105.2	PK
		Full	14	-44.37	-41.28	-39.55	4.600	4.600	7.61	-31.94	63.26	-4.94	68.2	PK
				-25.39	-13.53	-13.26	4.600	4.600	7.61	-5.65	90.55	-16.92	107.47	PK
		26/8	5.5	-16.92	-17.75	-14.30	4.600	4.600	7.61	-6.69	88.51	-33.69	122.2	PK
-20.28	-26.08			-19.27	4.600	4.600	7.61	-11.66	83.54	-27.26	110.8	PK		
52/40	8.5	-29.04	-29.72	-26.36	4.600	4.600	7.61	-18.75	76.45	-28.75	105.2	PK		
		-42.35	-41.84	-39.08	4.600	4.600	7.61	-31.47	63.73	-4.47	68.2	PK		
106/54	15.5	-15.92	-13.22	-11.35	4.600	4.600	7.61	-3.74	92.46	-15.87	108.33	PK		
		-16.59	-9.896	-9.05	4.600	4.600	7.61	-1.44	93.76	-28.44	122.2	PK		
Full	14	-17.25	-12.49	-11.24	4.600	4.600	7.61	-3.63	91.57	-19.23	110.8	PK		
		-32.20	-24.53	-23.84	4.600	4.600	7.61	-16.23	78.97	-26.23	105.2	PK		
26/8	5.5	-42.51	-40.41	-38.32	4.600	4.600	7.61	-30.71	64.49	-3.71	68.2	PK		
		-30.48	-24.53	-23.55	4.600	4.600	7.61	-15.94	80.26	-21.89	102.15	PK		
52/40	8.5	-9.156	-7.770	-5.40	4.100	4.100	7.11	1.71	96.91	-13.29	110.2	AV		
		-55.64	-55.51	-52.56	4.100	4.100	7.11	-45.45	49.75	-38.45	88.2	AV		
106/54	11.5	-6.991	-5.763	-3.32	4.100	4.100	7.11	3.79	98.99	-11.21	110.2	AV		
		-57.80	-57.34	-54.55	4.100	4.100	7.11	-47.44	47.76	-40.44	88.2	AV		
Full	14	-7.723	-5.950	-3.74	4.100	4.100	7.11	3.37	98.57	-11.63	110.2	AV		
		-57.08	-56.65	-53.85	4.100	4.100	7.11	-46.74	48.46	-39.74	88.2	AV		
26/8	5.5	-6.709	-5.012	-2.77	4.100	4.100	7.11	4.34	99.54	-10.66	110.2	AV		
		-57.26	-56.55	-53.88	4.100	4.100	7.11	-46.77	48.43	-39.77	88.2	AV		

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802.11ax 40M

Channel	Frequency (MHz)	RU Config	Setting	Raw Value(dBm)			Antenna Peak Gain (dBi)		Antenna Peak Gain MIMO (Ch0+1)	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
				Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1					74	PK
38	5190	Full	10.5	-45.01	-44.93	-41.96	2.460	2.460	5.47	-36.49	58.71	-15.29	74	PK
				-54.73	-54.12	-51.40	2.460	2.460	5.47	-45.93	49.27	-4.73	54	AV
		242/61	11	-39.57	-31.82	-31.15	2.460	2.460	5.47	-25.68	69.52	-4.48	74	PK
				-56.26	-55.66	-52.94	2.460	2.460	5.47	-47.47	47.73	-6.27	54	AV
62	5310	Full	11.5	-44.55	-45.55	-42.01	2.482	2.482	5.49	-36.52	58.68	-15.32	74	PK
				-54.40	-54.58	-51.48	2.482	2.482	5.49	-45.99	49.21	-4.79	54	AV
		242/62	10.5	-34.60	-38.32	-33.06	2.482	2.482	5.49	-27.57	67.63	-6.37	74	PK
				-58.53	-58.07	-55.28	2.482	2.482	5.49	-49.79	45.41	-8.59	54	AV
102	5510	Full	11	-45.70	-45.73	-42.70	4.900	4.900	7.91	-34.79	60.41	-13.59	74	PK
				-55.52	-55.77	-52.63	4.900	4.900	7.91	-44.72	50.48	-3.52	54	AV
				-43.15	-44.61	-40.81	4.900	4.900	7.91	-32.90	62.30	-5.90	68.2	PK
		242/61	8	-44.24	-44.76	-41.48	4.900	4.900	7.91	-33.57	61.63	-12.37	74	PK
				-58.60	-58.18	-55.37	4.900	4.900	7.91	-47.46	47.74	-6.26	54	AV
				-42.66	-42.93	-39.78	4.900	4.900	7.91	-31.87	63.33	-4.87	68.2	PK
134	5670	Full	15	-41.44	-41.55	-38.48	4.900	4.900	7.91	-30.57	64.63	-3.57	68.2	PK
		242/62	7	-42.03	-44.25	-39.99	4.900	4.900	7.91	-32.08	63.12	-5.08	68.2	PK
142	5710	Full	17	-48.17	-48.41	-45.28	4.900	4.900	7.91	-37.37	57.83	-16.17	74	PK
				-58.87	-58.08	-55.45	4.900	4.900	7.91	-47.54	47.66	-6.34	54	AV
				-48.64	-50.68	-46.53	4.900	4.900	7.91	-38.62	56.58	-11.62	68.2	PK
				-46.18	-44.87	-42.47	4.900	4.900	7.91	-34.56	60.64	-7.56	68.2	PK
151	5755	Full	17.5	-43.47	-41.49	-39.36	4.600	4.600	7.61	-31.75	63.45	-4.75	68.2	PK
				-39.06	-34.11	-32.90	4.600	4.600	7.61	-25.29	69.91	-35.29	105.2	PK
				-30.31	-24.88	-23.79	4.600	4.600	7.61	-16.18	79.02	-31.78	110.8	PK
		242/61	12	-26.91	-19.15	-18.48	4.600	4.600	7.61	-10.87	84.33	-37.87	122.2	PK
				-44.81	-38.54	-37.62	4.600	4.600	7.61	-30.01	65.19	-3.01	68.2	PK
				-42.35	-36.88	-35.80	4.600	4.600	7.61	-28.18	67.02	-38.18	105.2	PK
159	5795	Full	17.5	-32.67	-25.25	-24.53	4.600	4.600	7.61	-16.92	78.28	-32.52	110.8	PK
				-31.36	-26.13	-24.99	4.600	4.600	7.61	-17.38	77.82	-44.38	122.2	PK
				-38.67	-36.02	-34.14	4.600	4.600	7.61	-26.53	68.67	-53.53	122.2	PK
		242/62	13.5	-40.77	-36.95	-35.44	4.600	4.600	7.61	-27.83	67.37	-43.43	110.8	PK
				-42.55	-39.63	-37.84	4.600	4.600	7.61	-30.23	64.97	-40.23	105.2	PK
				-44.16	-44.56	-41.35	4.600	4.600	7.61	-33.73	61.47	-6.73	68.2	PK
175	5875	Full	16.5	-31.56	-36.57	-30.37	4.600	4.600	7.61	-22.76	72.44	-49.76	122.2	PK
				-39.59	-34.96	-33.67	4.600	4.600	7.61	-26.06	69.14	-41.66	110.8	PK
				-44.11	-40.60	-39.00	4.600	4.600	7.61	-31.39	63.81	-41.39	105.2	PK
		242/62	19	-41.80	-43.17	-39.42	4.600	4.600	7.61	-31.81	63.39	-4.81	68.2	PK
				-18.14	-17.47	-14.78	4.100	4.100	7.11	-7.67	87.53	-22.67	110.2	AV
				-46.41	-48.26	-44.23	4.100	4.100	7.11	-37.12	58.08	-30.12	88.2	AV
-19.96	-20.88	-17.39	4.100	4.100	7.11	-10.28	84.92	-25.28	110.2	AV				
-30.99	-36.14	-29.83	4.100	4.100	7.11	-22.72	72.48	-15.72	88.2	AV				

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802.11ax 80M

Channel	Frequency (MHz)	RU Config	Setting	Raw Value(dBm)			Antenna Peak Gain (dBi)		Antenna Peak Gain MIMO (Ch0+1)	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
				Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1					74	PK
42	5210	Full	11	-44.16	-43.95	-41.04	2.460	2.460	5.47	-35.57	59.63	-14.37	74	PK
		484/65	7.5	-54.34	-53.89	-51.10	2.460	2.460	5.47	-45.63	49.57	-4.43	54	AV
58	5290	Full	11.5	-45.75	-40.00	-38.98	2.460	2.460	5.47	-33.51	61.69	-12.31	74	PK
		484/66	10	-56.15	-55.85	-52.99	2.460	2.460	5.47	-47.52	47.68	-6.32	54	AV
106	5530	Full	10	-44.16	-42.86	-40.45	2.482	2.482	5.49	-34.96	60.24	-13.76	74	PK
		484/65	8	-54.23	-54.20	-51.20	2.482	2.482	5.49	-45.71	49.49	-4.51	54	AV
122	5610	Full	15	-34.74	-33.91	-31.29	2.482	2.482	5.49	-25.80	69.40	-4.60	74	PK
		484/66	8	-54.05	-54.61	-51.31	2.482	2.482	5.49	-45.82	49.38	-4.62	54	AV
138	5690	Full	16.5	-44.76	-43.29	-40.95	4.900	4.900	7.91	-33.04	62.16	-11.84	74	PK
		484/65	8	-55.25	-55.06	-52.14	4.900	4.900	7.91	-44.23	50.97	-3.03	54	AV
155	5775	Full	14.5	-44.80	-42.37	-40.41	4.900	4.900	7.91	-32.50	62.70	-5.50	68.2	PK
		484/65	7.5	-42.93	-39.93	-38.17	4.900	4.900	7.91	-30.26	64.94	-9.06	74	PK
171	5855	Full	17.5	-56.85	-56.64	-53.73	4.900	4.900	7.91	-45.82	49.38	-4.62	54	AV
		484/66	17	-41.20	-42.33	-38.72	4.900	4.900	7.91	-30.81	64.39	-3.81	68.2	PK

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802.11ax 160M

Channel	Frequency (MHz)	RU Config	Setting	Raw Value(dBm)			Antenna Peak Gain (dBi)		Antenna Peak Gain	EIRP Combine (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
				Chain 0	Chain 1	MIMO (Ch0+1)	Chain 0	Chain 1	MIMO (Ch0+1)				74	PK
50	5250	Full	7	-43.60	-42.76	-40.15	2.460	2.460	5.47	-34.68	60.52	-13.48	74	PK
				-55.04	-54.52	-51.76	2.460	2.460	5.47	-46.29	48.91	-5.09	54	AV
				-45.75	-42.91	-41.09	2.460	2.460	5.47	-35.62	59.58	-14.42	74	PK
				-56.38	-55.48	-52.90	2.460	2.460	5.47	-47.43	47.77	-6.23	54	AV
		996/67	5.5	-35.79	-35.48	-32.62	2.460	2.460	5.47	-27.15	68.05	-5.95	74	PK
				-54.13	-53.73	-50.92	2.460	2.460	5.47	-45.44	49.76	-4.24	54	AV
				-36.20	-33.50	-31.63	2.460	2.460	5.47	-26.16	70.04	-3.96	74	PK
				-58.86	-56.68	-54.62	2.460	2.460	5.47	-49.15	48.05	-5.95	54	AV
		996/S67	5	-36.47	-35.34	-32.86	2.460	2.460	5.47	-27.39	67.81	-6.19	74	PK
				-56.09	-55.37	-52.70	2.460	2.460	5.47	-47.23	47.97	-6.03	54	AV
				-37.17	-33.68	-32.07	2.460	2.460	5.47	-26.60	69.60	-4.40	74	PK
				-56.25	-55.10	-52.63	2.460	2.460	5.47	-47.16	50.04	-3.96	54	AV
114	5570	Full	6	-45.74	-45.15	-42.42	4.900	4.900	7.91	-34.51	60.69	-13.31	74	PK
				-57.25	-56.69	-53.95	4.900	4.900	7.91	-46.04	49.16	-4.84	54	AV
				-47.76	-46.26	-43.94	4.900	4.900	7.91	-36.02	59.18	-9.02	68.2	PK
				-47.10	-44.10	-42.34	4.900	4.900	7.91	-34.43	60.77	-7.43	68.2	PK
		996/67	1	-41.23	-40.88	-38.04	4.900	4.900	7.91	-30.13	65.07	-8.93	74	PK
				-57.79	-57.79	-54.78	4.900	4.900	7.91	-46.87	48.33	-5.67	54	AV
				-46.67	-46.28	-43.46	4.900	4.900	7.91	-35.55	60.65	-7.55	68.2	PK
				-45.66	-42.90	-41.05	4.900	4.900	7.91	-33.14	64.06	-4.14	68.2	PK
		996/S67	1	-42.04	-42.18	-39.10	4.900	4.900	7.91	-31.19	64.01	-9.99	74	PK
				-58.44	-58.20	-55.31	4.900	4.900	7.91	-47.40	47.80	-6.20	54	AV
				-46.06	-46.23	-43.13	4.900	4.900	7.91	-35.22	60.98	-7.22	68.2	PK
				-44.81	-44.94	-41.86	4.900	4.900	7.91	-33.95	63.25	-4.95	68.2	PK
163	5815	Full	12	-29.71	-27.75	-25.61	4.600	4.600	7.61	-18.00	77.20	-33.00	110.2	AV
				-45.48	-43.56	-41.40	4.600	4.600	7.61	-33.79	61.41	-26.79	88.2	AV
		996/67	10.5	-51.59	-50.41	-47.95	4.600	4.600	7.61	-40.34	54.86	-55.34	110.2	AV
				-53.74	-52.04	-49.80	4.600	4.600	7.61	-42.19	53.01	-35.19	88.2	AV
		996/S67	12	-24.40	-22.68	-20.45	4.600	4.600	7.61	-12.83	82.37	-27.83	110.2	AV
				-43.26	-38.61	-37.33	4.600	4.600	7.61	-29.72	65.48	-22.72	88.2	AV

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