

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Taijet Bointec Co. LTD.
4F,#114,Zhouzi St., Neihu-Taipei 11493,Taiwan
Product Name: DGF109A (a.k.a. DGF104A)
Brand Name: Bointec
Model No.: DGF109A, DGF104A
Model Difference: Marketing Different
Report Number: ER/2021/90006
FCC ID 2AMAF-DGF109A104A
IC: 23942-DGF109A104A
Issue Date: November 30, 2021
Date of Test: October 14, 2021~November 3, 2021
Date of EUT Received: September 8, 2021

Approved By

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISSED RSS-247.

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

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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Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/90006	00	Original.	November 30, 2021	Yuri Tsai

Note:

- 1、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	DGF109A (a.k.a. DGF104A)
Brand Name:	Bointec
Model No.:	DGF109A, DGF104A
Model Difference:	Marketing Different
Hardware Version:	v01
Firmware Version:	v01
EUT Series No.:	Conducted: 20A7870094E6 Radiated: 20A7870094E6
Power Supply:	3.3V

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps

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1.3 Antenna Designation

Ant. Type	Brand	Part No.	Freq.(MHz)	Peak Gain (dBi)	Directional Gain (dBi)
WiFi Antenna	Bointec	TWRN-9161202-171	5150~5250	4.99	8.00
		TWRN-9161202-171	5250~5350	4.99	8.00
		TWRN-9161202-171	5470~5725	4.99	8.00
		TWRN-9161202-171	5725~5850	3.99	
WiFi Antenna	Bointec	TWRN-9161201-191	5150~5250	4.61	
		TWRN-9161201-191	5250~5350	4.61	
		TWRN-9161201-191	5470~5725	4.97	
		TWRN-9161201-191	5725~5850	4.88	7.98
WiFi Antenna	Bointec	TWRN-9161201-102	5150~5250	2.40	
		TWRN-9161201-102	5250~5350	2.40	
		TWRN-9161201-102	5470~5725	2.40	
		TWRN-9161201-102	5725~5850	2.40	
WiFi Antenna	Bointec	TWRN-9161202-101	5150~5250	1.79	
		TWRN-9161202-101	5250~5350	1.79	
		TWRN-9161202-101	5470~5725	1.79	
		TWRN-9161202-101	5725~5850	1.79	
WiFi Antenna	INVAX	AN2450-5706RS	5150~5251	4.08	
		AN2450-5706RS	5250~5351	4.35	
		AN2450-5706RS	5470~5726	4.26	
		AN2450-5706RS	5725~5851	4.61	
WiFi Antenna	Maglayer	EDA-8709-25GR2-A20-TN	5150~5252	2.29	
		EDA-8709-25GR2-A20-TN	5250~5352	2.29	
		EDA-8709-25GR2-A20-TN	5470~5727	2.29	
		EDA-8709-25GR2-A20-TN	5725~5852	2.29	
WiFi Antenna	Bointec	TWRN-9113203-151	5150~5253	3.30	
		TWRN-9113203-151	5250~5353	3.30	
		TWRN-9113203-151	5470~5728	3.30	
		TWRN-9113203-151	5725~5853	3.30	
WiFi Antenna	Bointec	TWRN-91G3203-151	5150~5254	3.30	
		TWRN-91G3203-151	5250~5354	3.30	
		TWRN-91G3203-151	5470~5729	3.30	
		TWRN-91G3203-151	5725~5854	3.30	
WiFi Antenna	Bointec	TWRN-9113204-151	5150~5255	3.80	
		TWRN-9113204-151	5250~5355	3.80	
		TWRN-9113204-151	5470~5730	3.80	
		TWRN-9113204-151	5725~5855	3.80	

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WiFi Antenna	Bointec	TWRN-91G3204-151	5150~5256	3.80	
		TWRN-91G3204-151	5250~5356	3.80	
		TWRN-91G3204-151	5470~5731	3.80	
		TWRN-91G3204-151	5725~5856	3.80	
WiFi Antenna	Bointec	TWRN-91G3203-351	5150~5257	3.30	
		TWRN-91G3203-351	5250~5357	3.30	
		TWRN-91G3203-351	5470~5732	3.30	
		TWRN-91G3203-351	5725~5857	3.30	
WiFi Antenna	Molex	479504012	5150~5258	2.81	
		479504012	5250~5358	2.81	
		479504012	5470~5733	2.81	
		479504012	5725~5858	2.81	
WiFi Antenna	Bointec	TWRN-91G3206-351	5150~5259	2.60	
		TWRN-91G3206-351	5250~5359	2.60	
		TWRN-91G3206-351	5470~5734	2.60	
		TWRN-91G3206-351	5725~5859	2.60	
WiFi Antenna	INVAX/Cortec	NB1363-B310BX	5150~5260	2.71	
		NB1363-B310BX	5250~5360	2.71	
		NB1363-B310BX	5470~5735	2.71	
		NB1363-B310BX	5725~5860	2.71	

Note:

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

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT/ ac_VHT 20M	5180~5240	4	11.23 dBm	OFDM
	5260~5320	4	17.95 dBm	OFDM
	5500~5700	11	18.50 dBm	OFDM
	5745-5825	5	23.60 dBm	OFDM
n_HT/ ac_VHT 40M	5190~5230	2	13.70 dBm	OFDM
	5270~5310	2	20.76 dBm	OFDM
	5510~5710	5	21.01 dBm	OFDM
	5755-5795	2	22.08 dBm	OFDM
ac_VHT 80M	5210	1	7.55 dBm	OFDM
	5290	1	9.06 dBm	OFDM
	5530~5690	3	18.24 dBm	OFDM
	5775	1	18.88 dBm	OFDM

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1.5 ISED

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 20M	5180-5240	4	EIRP	19.23	dBm	OFDM
	5260-5320	4	Avg	17.95	dBm	OFDM
	5500-5700	11	Avg	18.50	dBm	OFDM
	5745-5825	5	Avg	23.60	dBm	OFDM
n_HT/ ac_VHT 40M	5190-5230	2	EIRP	21.70	dBm	OFDM
	5270-5310	2	Avg	20.76	dBm	OFDM
	5510-5670	5	Avg	21.01	dBm	OFDM
	5755-5795	2	Avg	22.08	dBm	OFDM
ac_VHT 80M	5210	1	EIRP	15.55	dBm	OFDM
	5290	1	Avg	9.06	dBm	OFDM
	5530-5610	2	Avg	18.24	dBm	OFDM
	5775	1	Avg	18.88	dBm	OFDM

Note: As per guidance in presentation 2018-04-10-03 IC Certification updates of April 2018 TCB workshop, Client (Slave mode) devices without active scanning function, but with the capability of operating in 5600-5650 MHz solely under the control of a certified master device meeting the requirement of RSS-247, are allowed in Canada.

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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

RSS-247 issue 2 Feb. 2017

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

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 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.				

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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*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

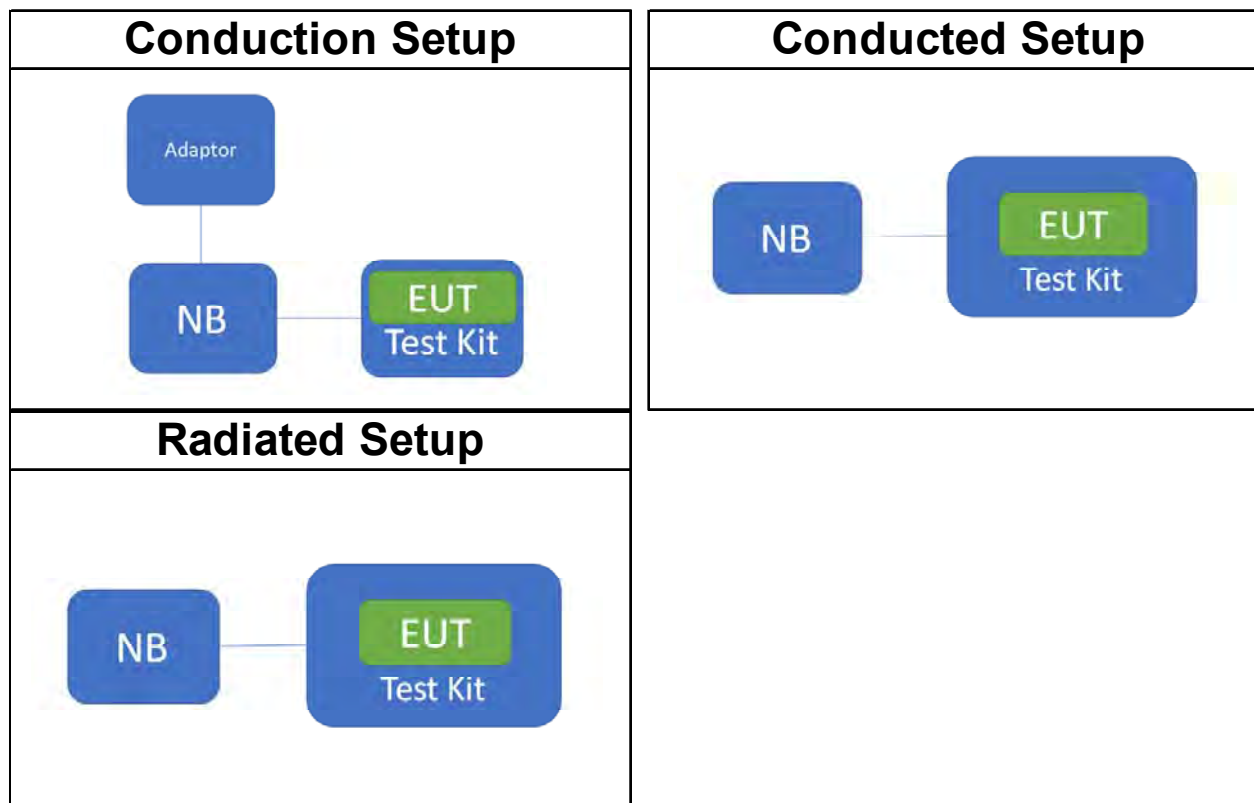
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L430	R9-WGNK5 13/01	N/A	N/A
Adapter	Lenovo	92P1158	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L430	R9-WGNK5	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L430	R9-WGNK5 13/01	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	Emission Bandwidth	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
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203	N/A	Antenna Requirement	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	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

Operated band in 5470 MHz ~5725 MHz:

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

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				

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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	
v	802.11 a	v	Ch0	v	Ch1		Ch2		Ch3	v	1TX	v	2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3	v	SISO	v	MIMO
v	802.11 ac	v	Ch0	v	Ch1		Ch2		Ch3	v	SISO	v	MIMO
	802.11 ax		Ch0	v	Ch1		Ch2		Ch3		SISO		MIMO

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.

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			
	5500~5700	100 to 140	116			
	5745~5825	149 to 165	157			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106			
	5775	155	155			

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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	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

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			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

Note:

The field strength of radiation emission was measured as EUT three orthogonal planes, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested and recorded.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Emission Bandwidth	+/- 1.53 Hz
The Maximum Output Power Measurement	+/- 1 dB
Peak Power Spectral Density Measurement	+/- 1.53 dB
Frequency Stability	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz
	+/-	4.93 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz
	+/-	4.45 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 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 CONDUCTED EMISSION TEST

6.1 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.		

6.2 Measurement Equipment Used

Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2021	04/08/2022
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2020	12/06/2021
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

Note: N.C.R refers to No calibration required

6.3 EUT Setup

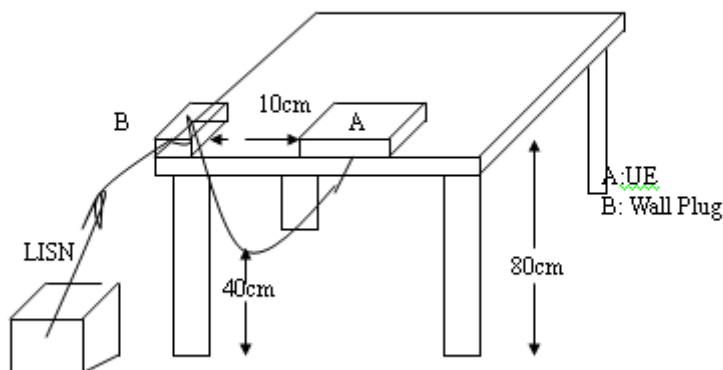
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP



6.5 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.

6.6 Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Antenna No.: TWRN-9161202-171

Report Number :ER-2021-90006

Test Site :Conduction 1

Test Mode :Operation WLAN5G

Test Date :2021-10-28

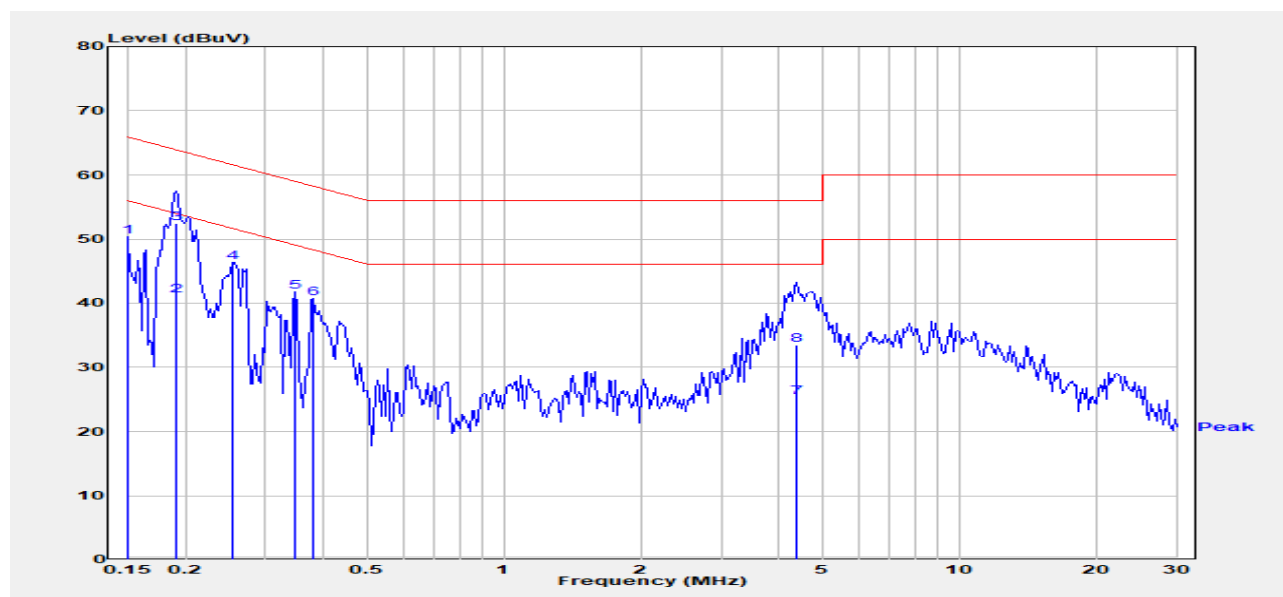
Power :120V/60Hz

Temp./Humi. :24.8/61

Probe :L

Engineer :Nick Lin

Note: :antenna TWRN-9161202-171



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.150	Peak	48.21	2.12	50.33	66.00	-15.67
0.191	Average	39.11	2.12	41.23	53.98	-12.75
0.191	QP	50.37	2.12	52.49	63.98	-11.49
0.255	Peak	44.28	2.12	46.40	61.60	-15.20
0.346	Peak	39.64	2.12	41.76	59.05	-17.28
0.381	Peak	38.64	2.12	40.76	58.25	-17.50
4.407	Average	22.61	2.74	25.35	46.00	-20.65
4.407	QP	30.80	2.74	33.54	56.00	-22.46

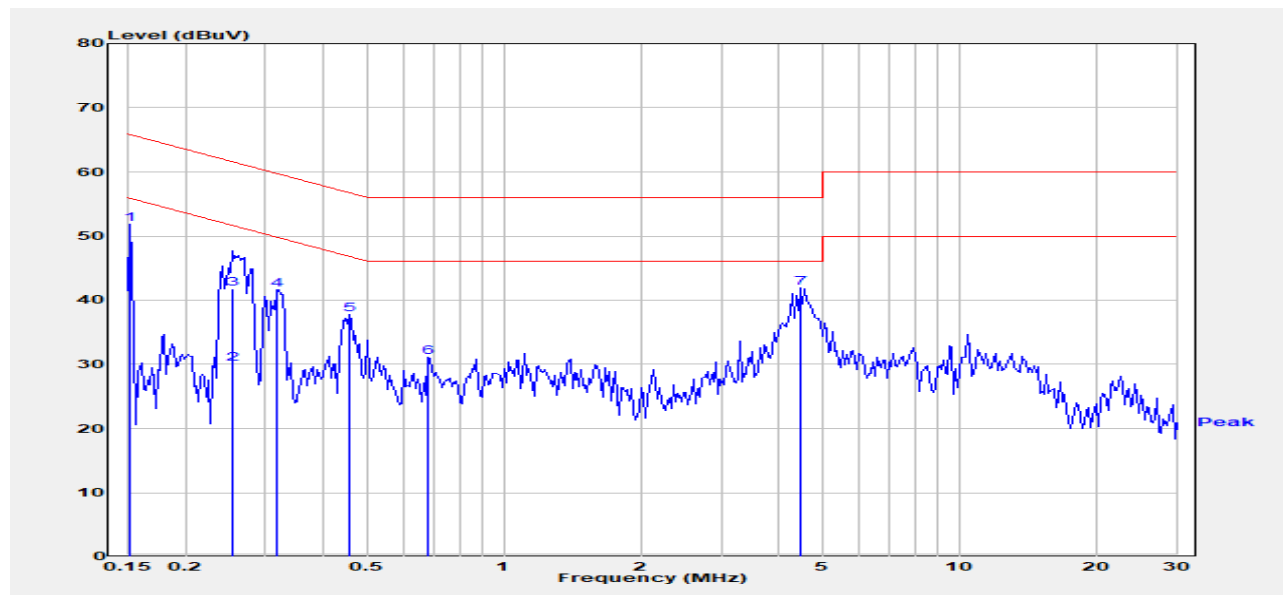
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Report Number :ER-2021-90006
Test Mode :Operation WLAN5G
Power :120V/60Hz
Probe :N
Note: :antenna TWRN-9161202-171

Test Site :Conduction 1
Test Date :2021-10-28
Temp./Humi. :24.8/61
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	Peak	49.73	2.13	51.86	65.91	-14.06
0.255	Average	27.89	2.24	30.13	51.60	-21.47
0.255	QP	39.53	2.24	41.77	61.60	-19.83
0.318	Peak	39.43	2.18	41.61	59.75	-18.14
0.456	Peak	35.59	2.12	37.71	56.76	-19.05
0.683	Peak	29.02	2.13	31.15	56.00	-24.85
4.501	Peak	39.70	2.19	41.90	56.00	-14.10

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Antenna No.: TWRN-9161201-191

Report Number :ER-2021-90006

Test Site :Conduction 1

Test Mode :Operation WLAN5G

Test Date :2021-10-28

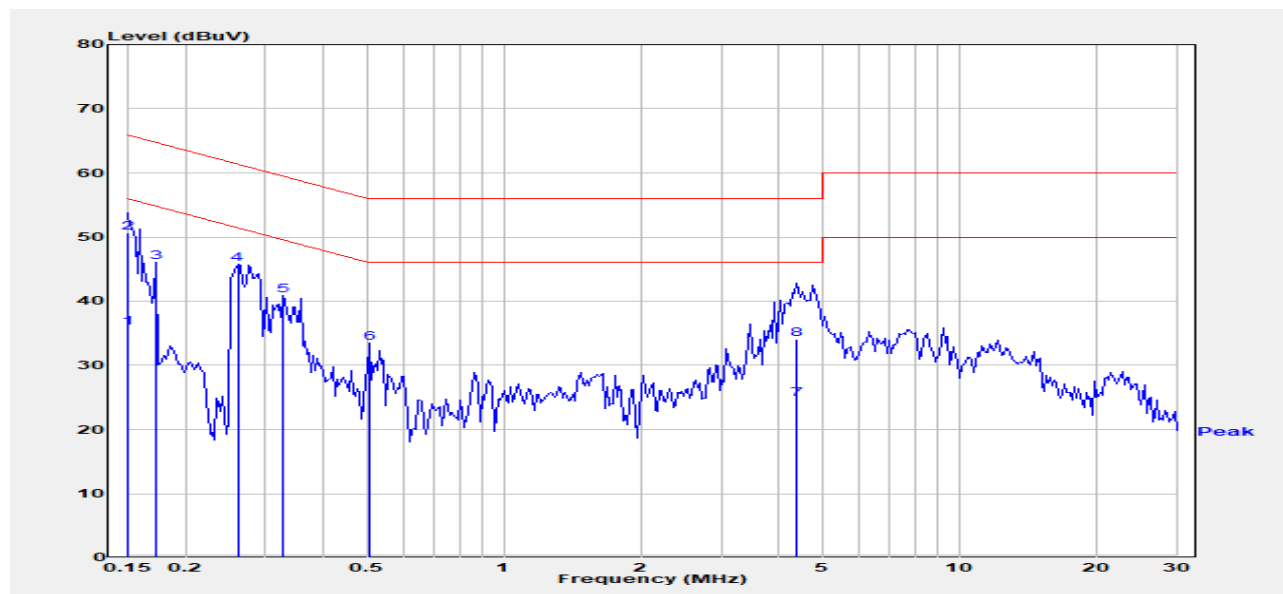
Power :120V/60Hz

Temp./Humi. :24.8/61

Probe :L

Engineer :Nick Lin

Note: :antenna TWRN-9161201-191



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.150	Average	33.78	2.12	35.90	56.00	-20.10
0.150	QP	48.51	2.12	50.63	66.00	-15.37
0.172	Peak	43.91	2.12	46.03	64.86	-18.83
0.260	Peak	43.62	2.12	45.74	61.42	-15.68
0.329	Peak	38.75	2.12	40.87	59.49	-18.61
0.507	Peak	31.35	2.12	33.48	56.00	-22.52
4.407	Average	22.02	2.74	24.76	46.00	-21.24
4.407	QP	31.37	2.74	34.11	56.00	-21.89

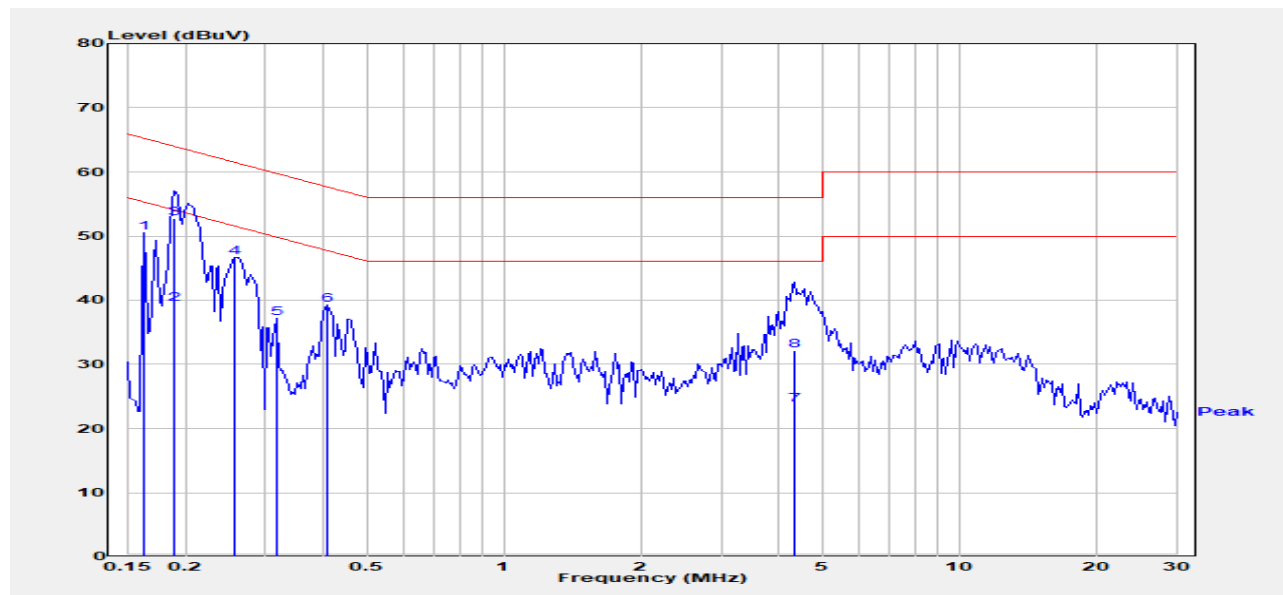
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Report Number :ER-2021-90006
 Test Mode :Operation WLAN5G
 Power :120V/60Hz
 Probe :N
 Note: :antenna TWRN-9161201-191

Test Site :Conduction 1
 Test Date :2021-10-28
 Temp./Humi. :24.8/61
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.162	Peak	48.28	2.17	50.45	65.38	-14.94
0.189	Average	37.18	2.27	39.45	54.06	-14.62
0.189	QP	50.48	2.27	52.75	64.06	-11.32
0.258	Peak	44.43	2.23	46.67	61.51	-14.85
0.318	Peak	34.99	2.18	37.17	59.75	-22.58
0.410	Peak	37.10	2.12	39.22	57.64	-18.42
4.361	Average	21.58	2.19	23.77	46.00	-22.23
4.361	QP	30.02	2.19	32.21	56.00	-23.79

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7 EMISSION BANDWIDTH MEASUREMENT

7.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

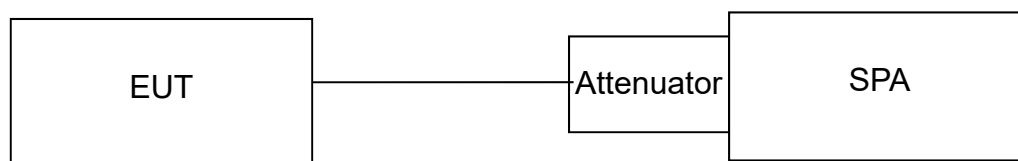
The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

7.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

Note: N.C.R refers to No calibration required

7.3 Test Set-up



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7.4 Measurement Procedure

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 spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as
RBW = 1%,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Sample,
Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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7.5 Measurement Result

7.5.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.71	12.720
5220	19.00	12.790
5240	19.29	12.850
5260	18.76	12.730
5300	18.97	12.780
5320	19.22	12.840
5500	18.34	12.630
5580	19.24	12.840
5700	18.80	12.740

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.99	11.460
5785	14.80	11.700
5825	12.83	11.080

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.11	< 5250
5745	5734.32	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.05	12.800
5220	18.78	12.740
5240	18.63	12.700
5260	18.90	12.760
5300	18.50	12.670
5320	19.41	12.880
5500	18.74	12.730
5580	19.33	12.860
5700	18.90	12.760

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.88	11.420
5785	14.42	11.590
5825	12.60	11.000

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.09	< 5250
5745	5734.59	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.57	12.920
5220	19.48	12.900
5240	19.52	12.900
5260	19.35	12.870
5300	19.89	12.990
5320	19.44	12.890
5500	19.44	12.890
5580	19.73	12.950
5700	20.03	13.020

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.08	11.780
5785	12.60	11.000
5825	14.57	11.630

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.66	< 5250
5745	5734.46	> 5725

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802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.52	12.900
5220	19.36	12.870
5240	19.64	12.930
5260	20.33	13.080
5300	19.88	12.980
5320	19.84	12.980
5500	19.71	12.950
5580	19.54	12.910
5700	19.33	12.860

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.10	11.790
5785	13.88	11.420
5825	14.86	11.720

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.65	< 5250
5745	5734.79	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.48	16.070
5230	40.10	16.030
5270	49.98	16.990
5310	39.64	15.980
5510	39.88	16.010
5550	50.00	16.990
5670	39.15	15.930

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	32.61	15.130
5795	33.83	15.290

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.87	< 5250
5755	5735.84	> 5725

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802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.66	15.980
5230	39.68	15.990
5270	50.00	16.990
5310	39.07	15.920
5510	39.83	16.000
5550	50.00	16.990
5670	39.77	16.000

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	32.62	15.130
5795	35.03	15.440

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.85	< 5250
5755	5736.66	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.40	19.160
5290	81.66	19.120
5530	82.81	19.180
5610	84.15	19.250

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.54	18.610

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.49	< 5250
5775	5737.38	> 5725

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802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.68	19.120
5290	81.76	19.130
5530	80.60	19.060
5610	81.18	19.090

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.11	18.760

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.56	< 5250
5775	5737.38	> 5725

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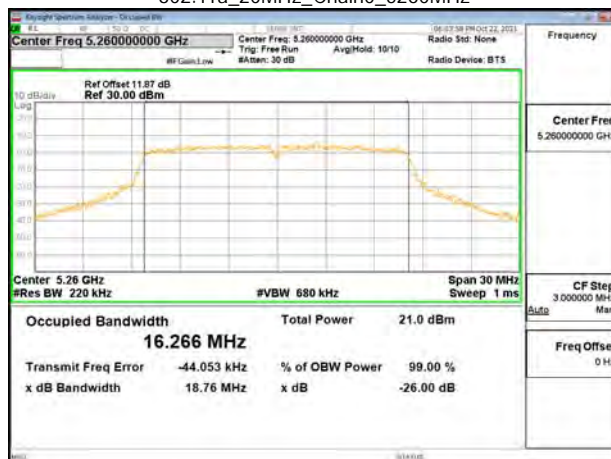
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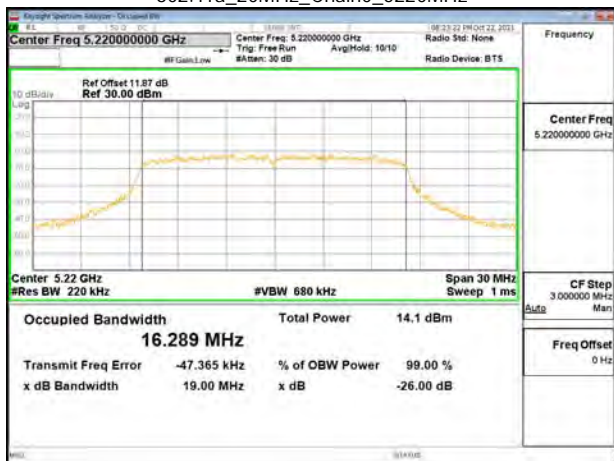
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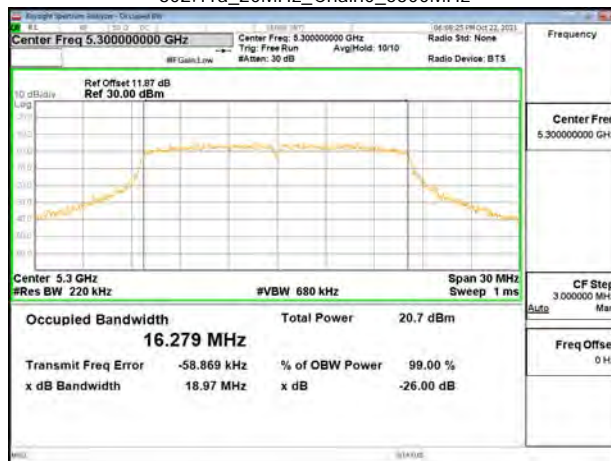
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

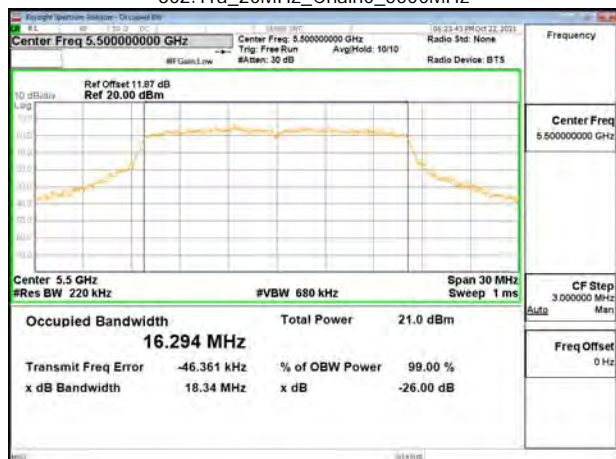


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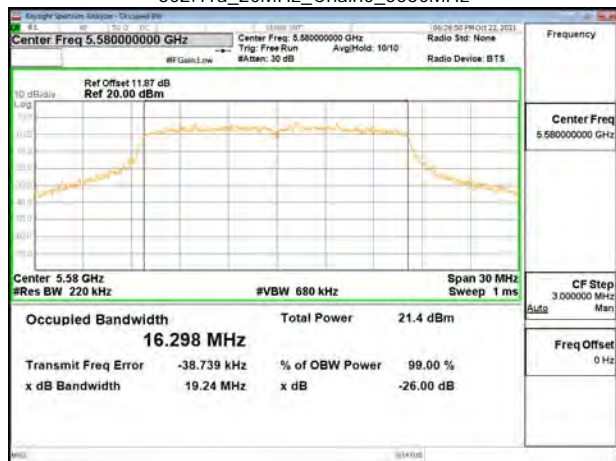
802.11a_20MHz_Chain0_5500MHz



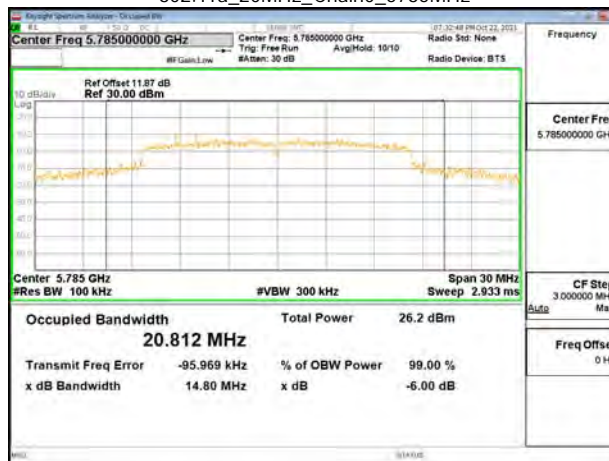
802.11a_20MHz_Chain0_5745MHz



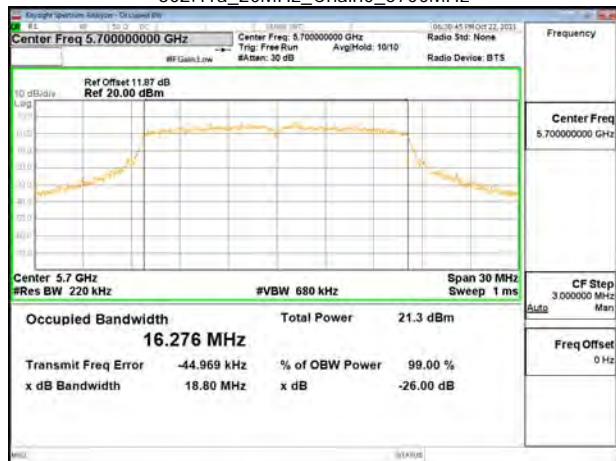
802.11a_20MHz_Chain0_5580MHz



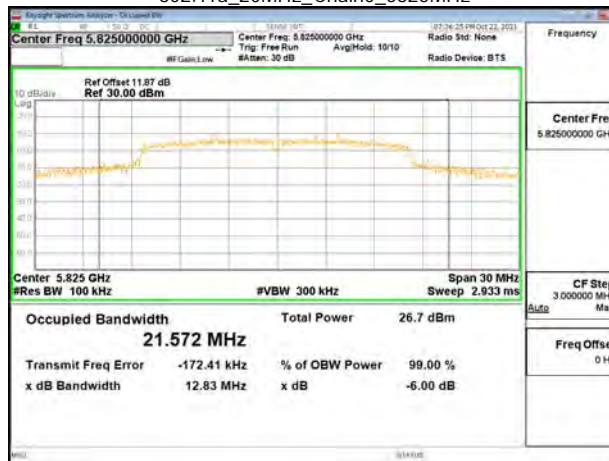
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5825MHz



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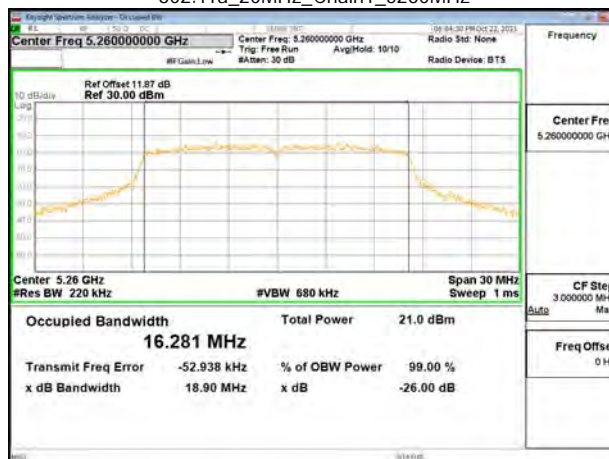
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802.11a_20MHz_Chain1_5180MHz



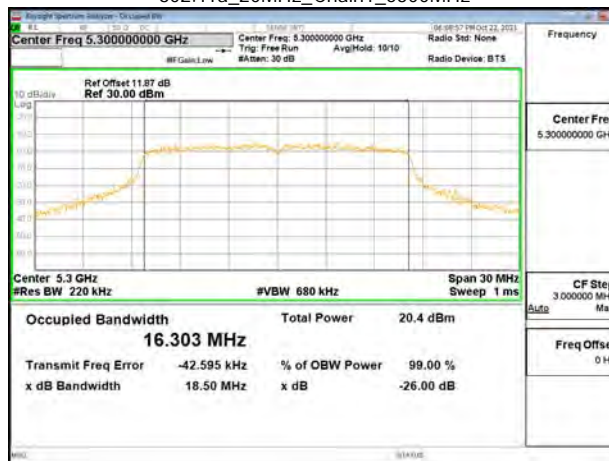
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



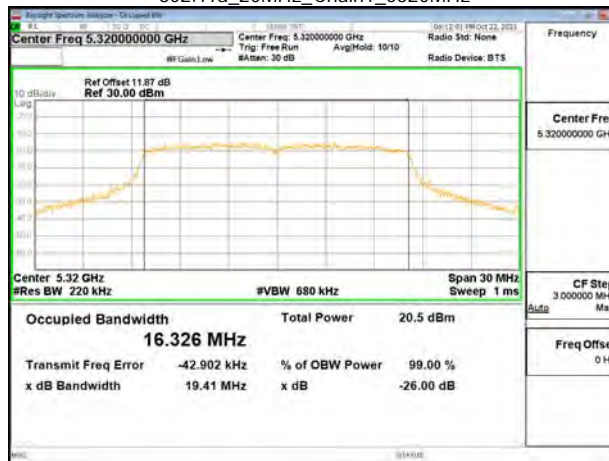
802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5320MHz

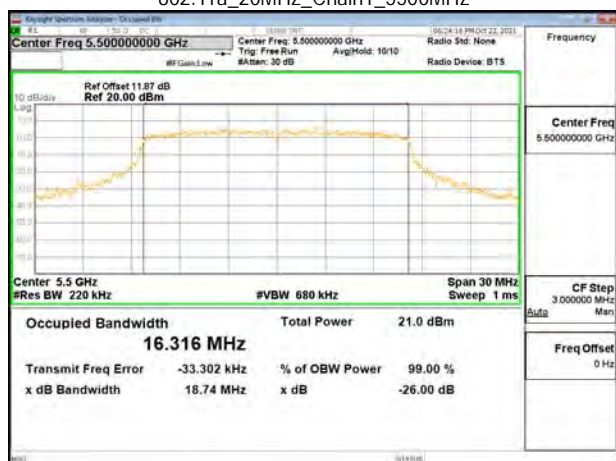


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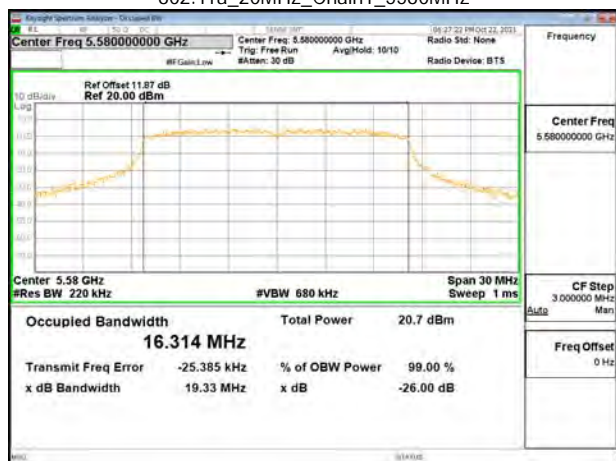
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5745MHz



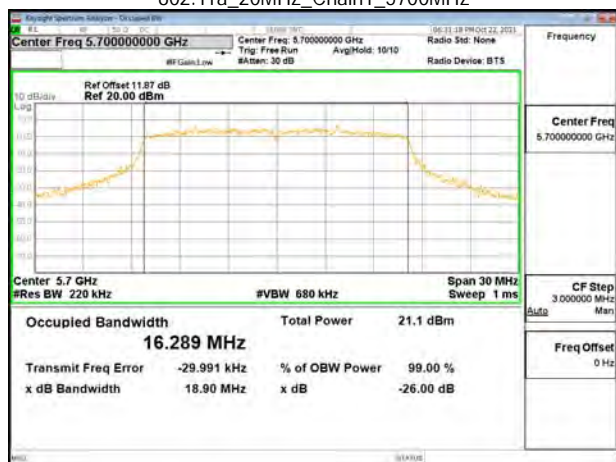
802.11a_20MHz_Chain1_5580MHz



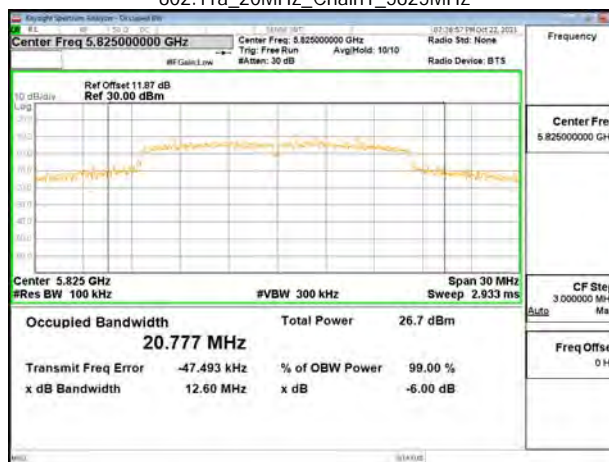
802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5825MHz

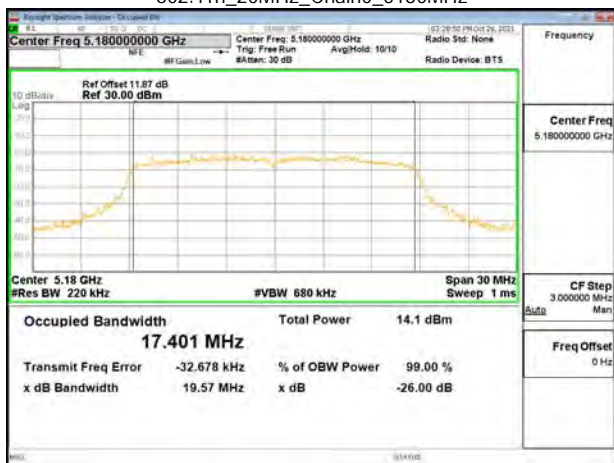


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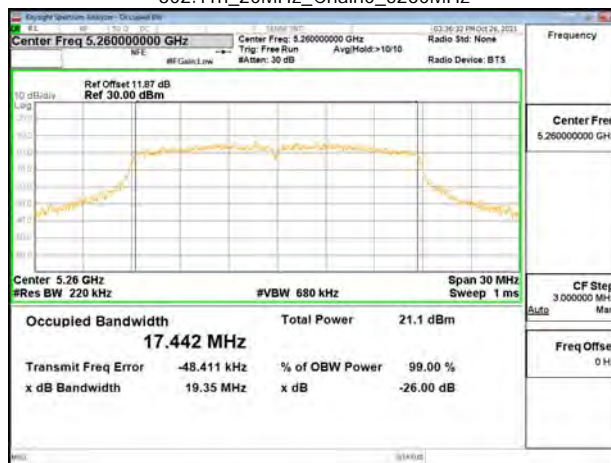
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802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5320MHz



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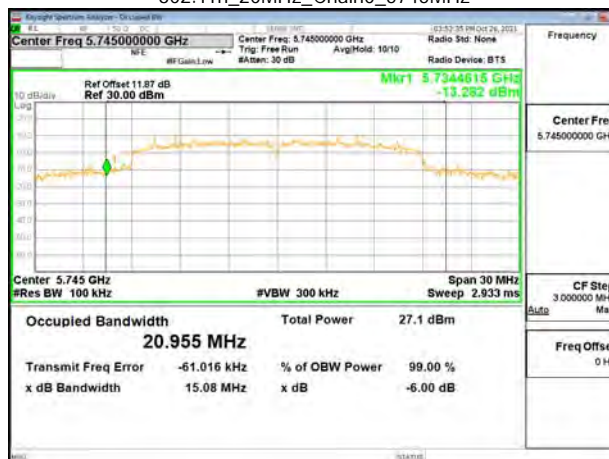
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802.11n_20MHz_Chain0_5500MHz



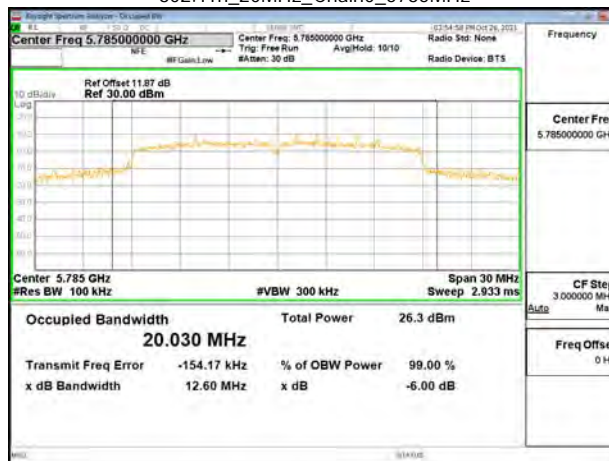
802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5825MHz



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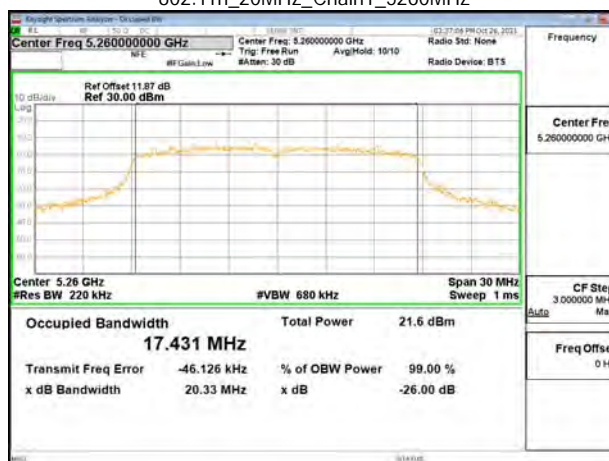
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802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain1_5260MHz



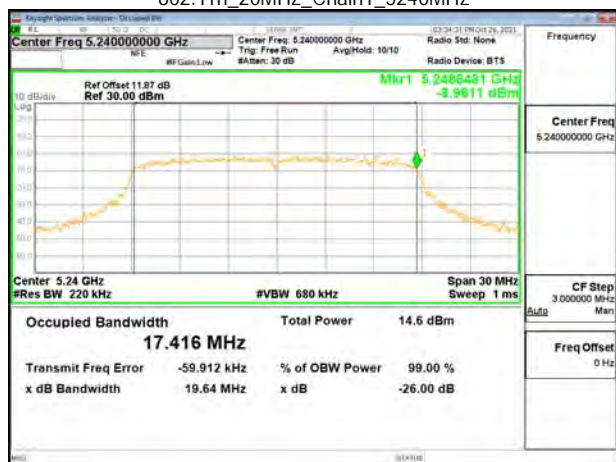
802.11n_20MHz_Chain1_5220MHz



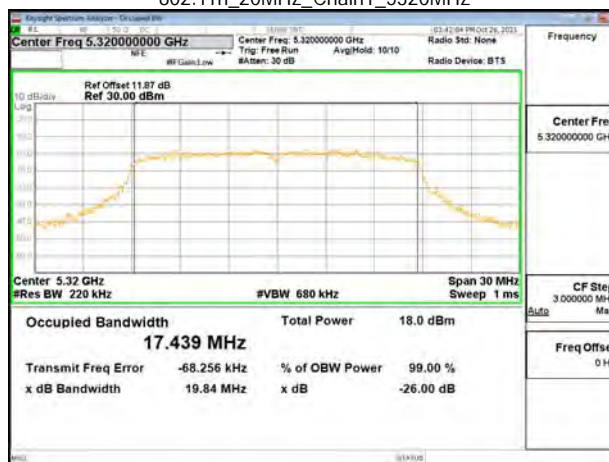
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz

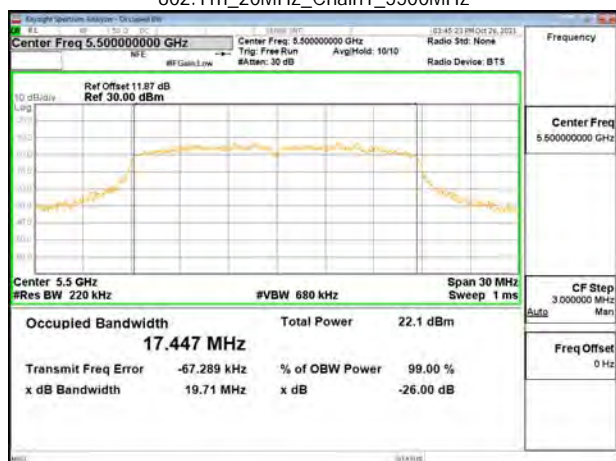


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802.11n_20MHz_Chain1_5500MHz



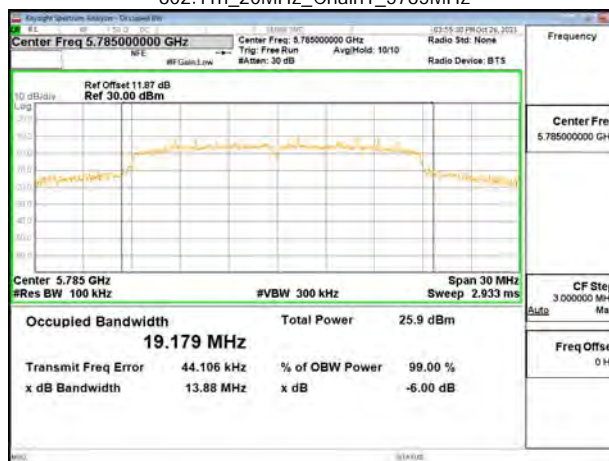
802.11n_20MHz_Chain1_5745MHz



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5825MHz

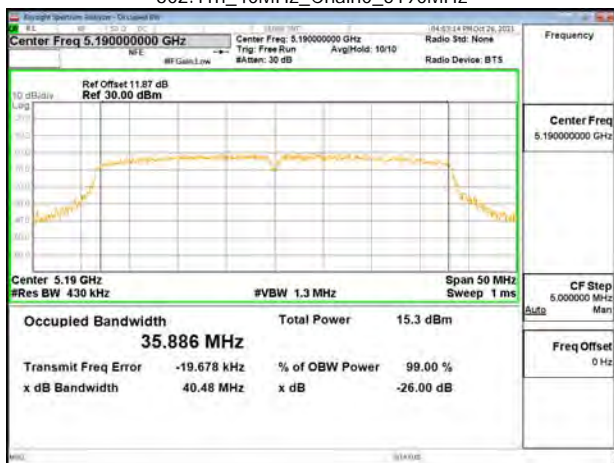


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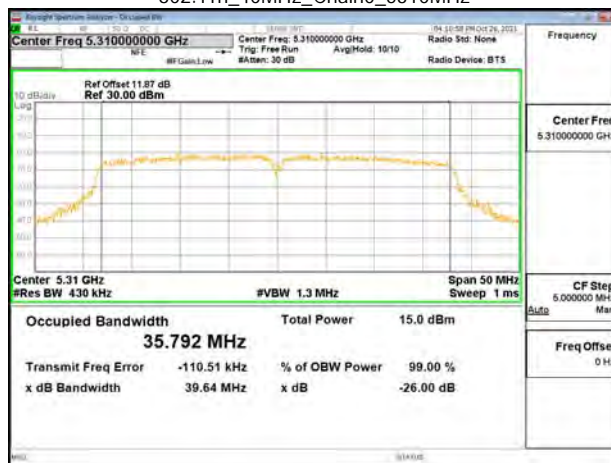
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802.11n_40MHz_Chain0_5190MHz



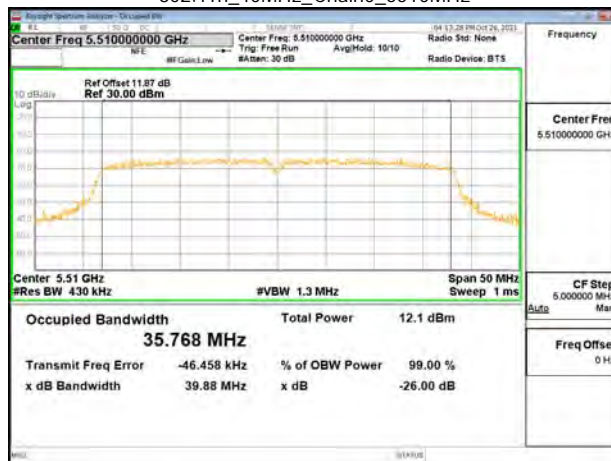
802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5230MHz



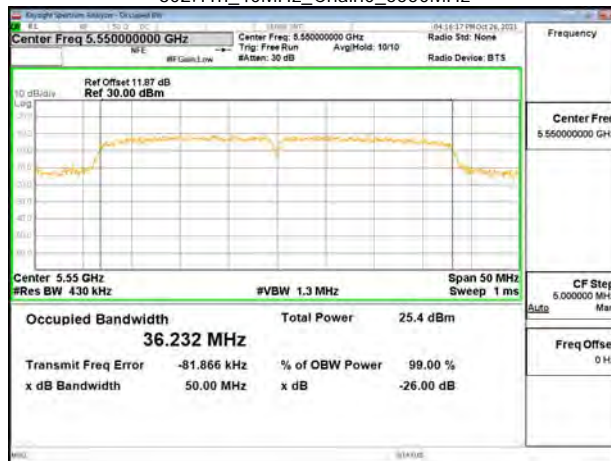
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz

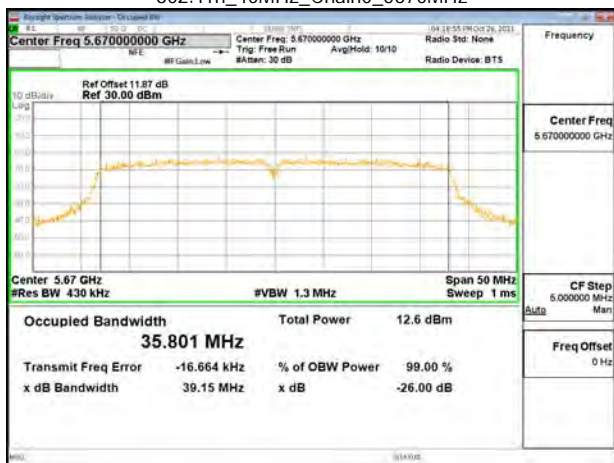


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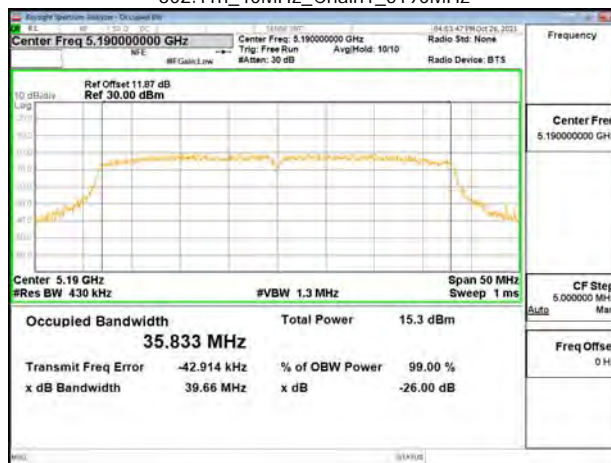
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802.11n_40MHz_Chain0_5670MHz



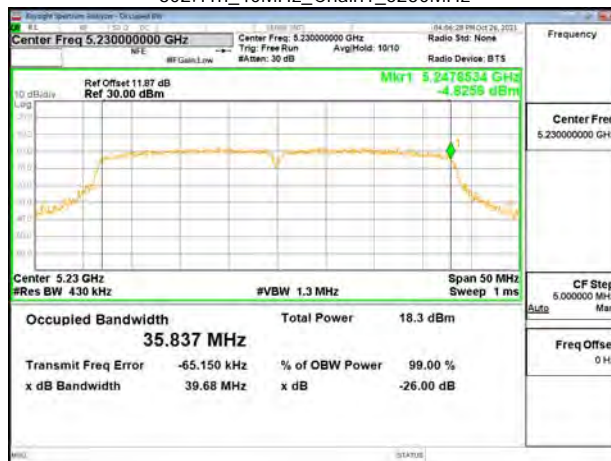
802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain0_5755MHz



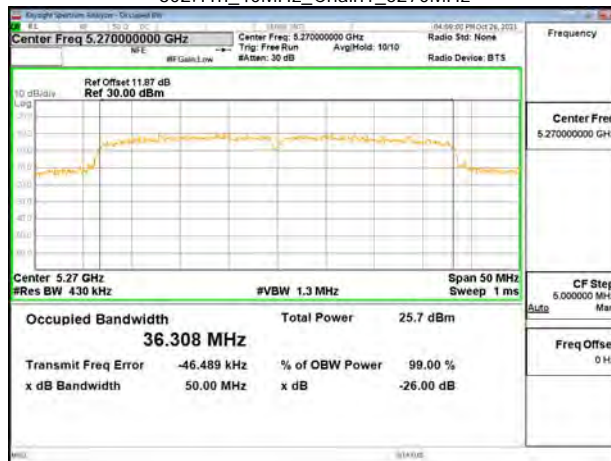
802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz

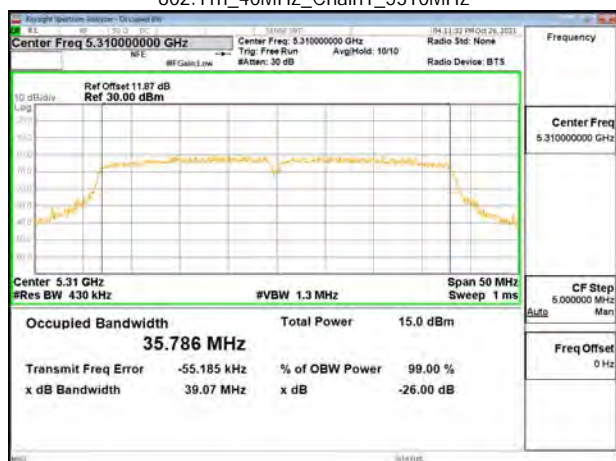


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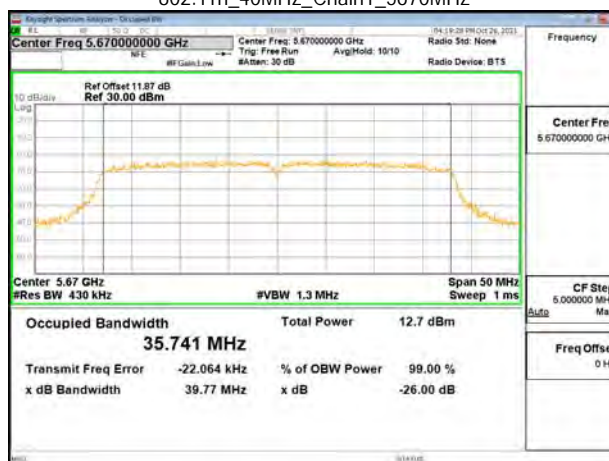
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802.11n_40MHz_Chain1_5310MHz



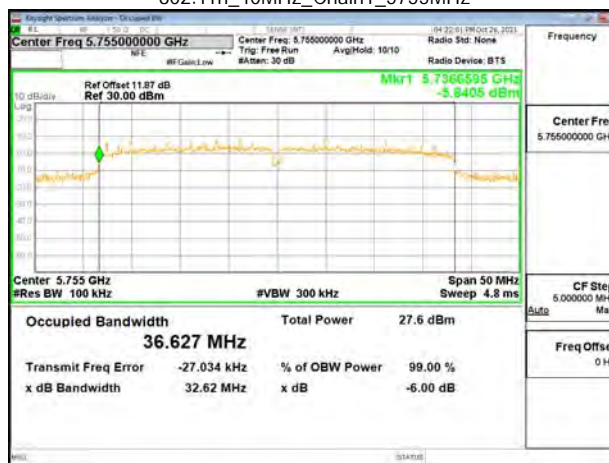
802.11n_40MHz_Chain1_5670MHz



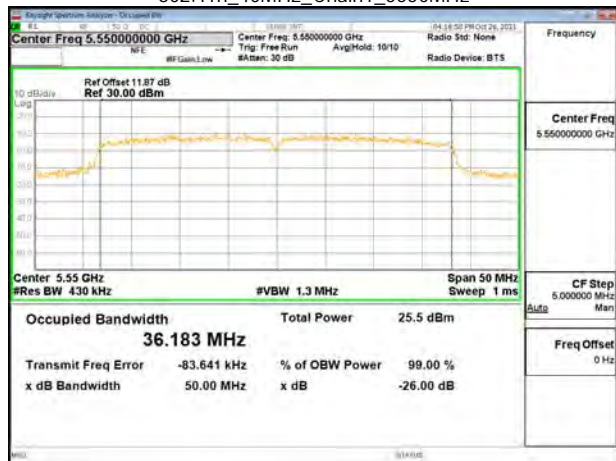
802.11n_40MHz_Chain1_5510MHz



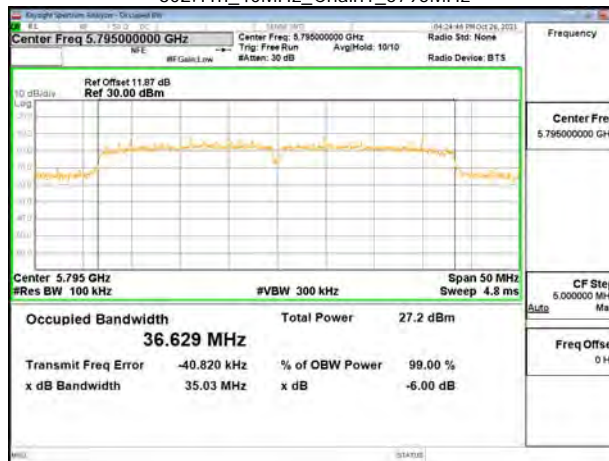
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5795MHz

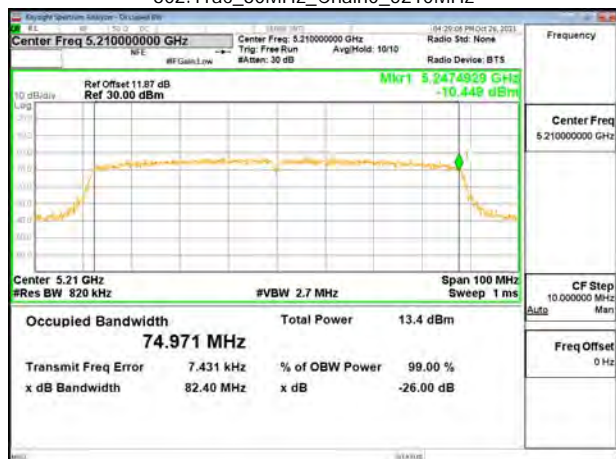


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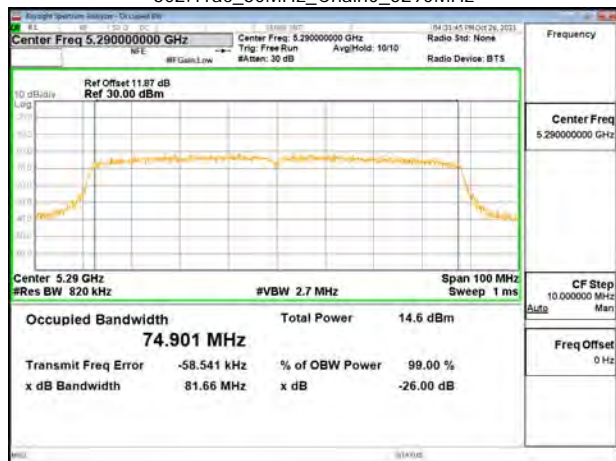
802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



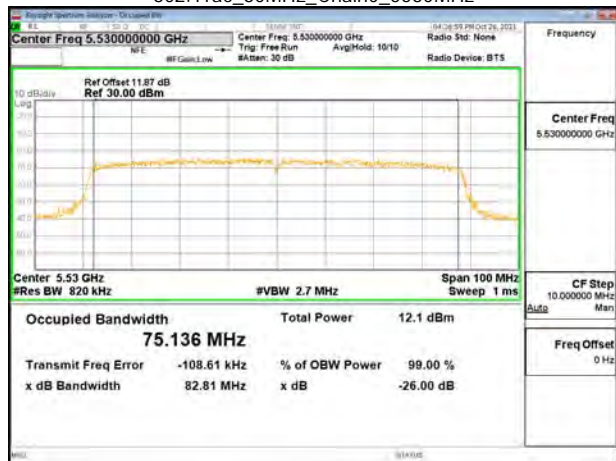
802.11ac_80MHz_Chain0_5290MHz



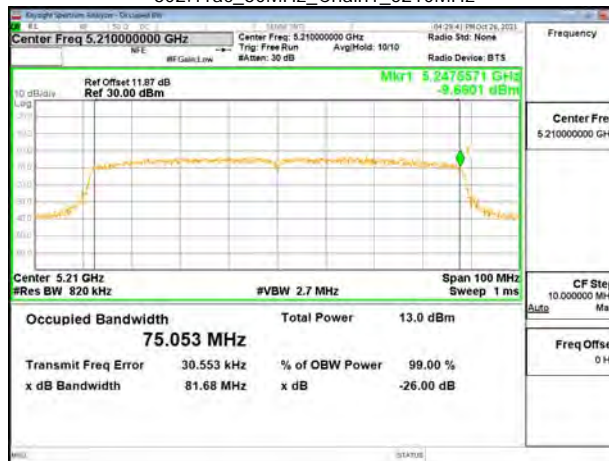
802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain1_5210MHz

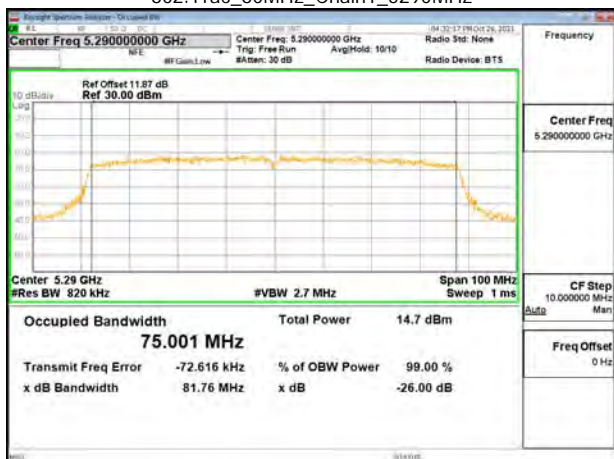


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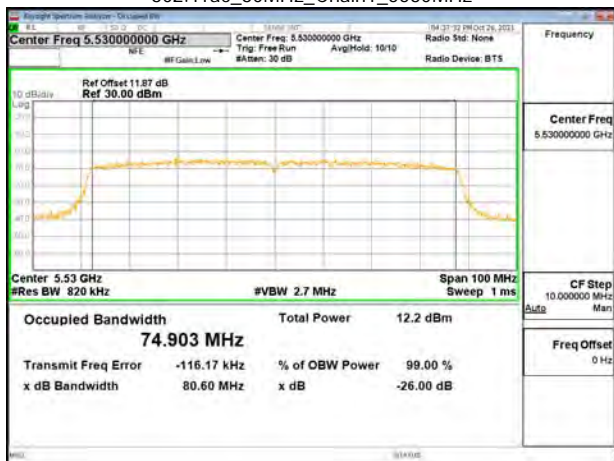
802.11ac_80MHz_Chain1_5290MHz



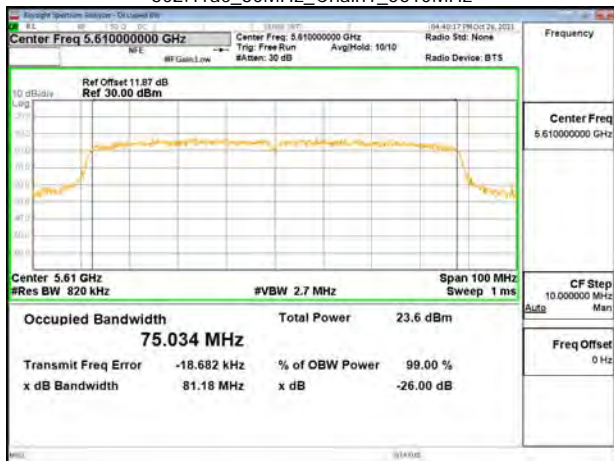
802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5610MHz



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7.5.2 ISED Occupied Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.278	12.120
5220	16.285	12.120
5240	16.268	12.110
5260	16.278	12.120
5300	16.264	12.110
5320	16.273	12.110
5500	16.274	12.110
5580	16.288	12.120
5700	16.242	12.110

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	22.059	16.090
5785	21.255	15.710
5825	21.503	11.874

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802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.273	12.110
5220	16.259	12.110
5240	16.241	12.110
5260	16.296	12.120
5300	16.296	12.120
5320	16.297	12.120
5500	16.270	12.110
5580	16.301	12.120
5700	16.284	12.120

802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	21.024	15.510
5785	20.513	15.300
5825	21.556	11.874

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802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.367	12.400
5220	17.431	12.410
5240	17.405	12.410
5260	17.398	12.400
5300	17.419	12.410
5320	17.434	12.410
5500	17.398	12.400
5580	17.436	12.410
5700	17.419	12.410

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	22.191	15.440
5785	21.201	15.940
5825	20.193	11.874

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802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.370	12.400
5220	17.382	12.400
5240	17.403	12.410
5260	17.435	12.410
5300	17.433	12.410
5320	17.409	12.410
5500	17.421	12.410
5580	17.395	12.400
5700	17.420	12.410

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	21.119	16.050
5785	20.026	15.110
5825	19.414	11.874

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.887	15.550
5230	35.788	15.540
5270	36.227	15.590
5310	35.818	15.540
5510	35.810	15.540
5550	36.291	15.600
5670	35.831	15.540

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	37.995	35.660
5795	37.805	35.270

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802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.745	15.530
5230	35.824	15.540
5270	36.234	15.590
5310	35.785	15.540
5510	35.787	15.540
5550	36.257	15.590
5670	35.736	15.530

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.957	35.910
5795	36.796	33.400

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.009	18.750
5290	74.719	18.730
5530	74.965	18.750
5610	74.934	18.750

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.104	75.250

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802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	74.877	18.740
5290	74.950	18.750
5530	75.056	18.750
5610	75.007	18.750

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.091	74.180

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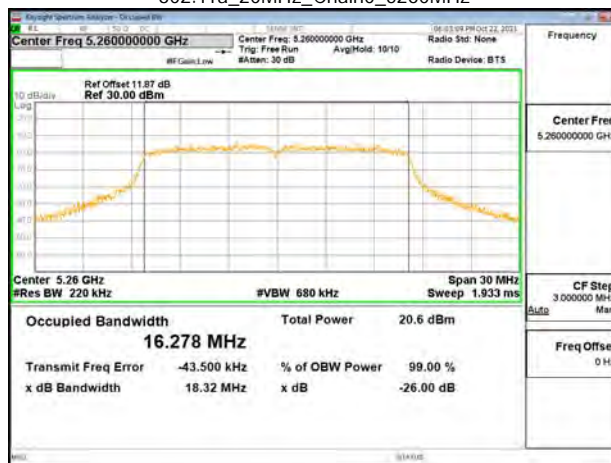
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802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



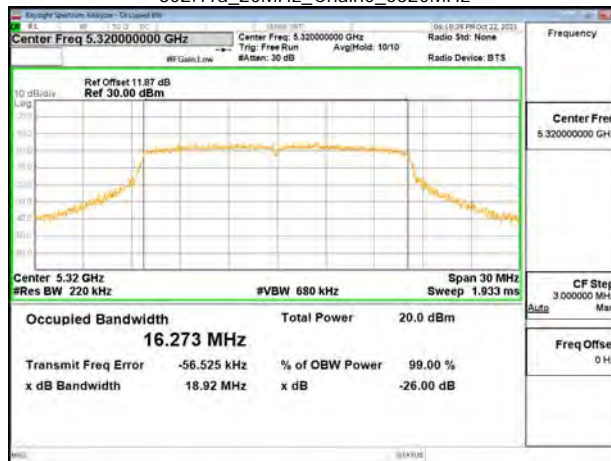
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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802.11a_20MHz_Chain0_5500MHz



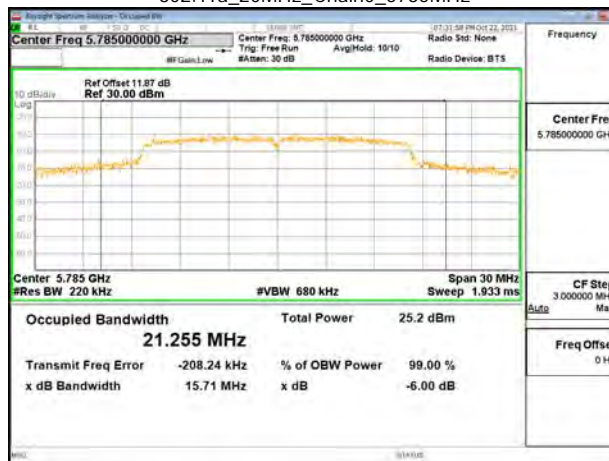
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5825MHz



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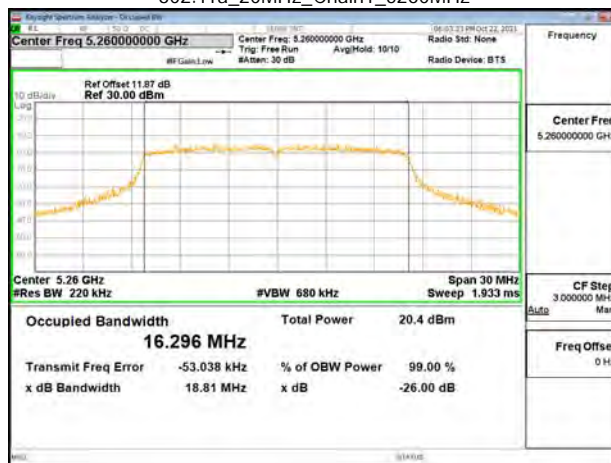
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802.11a_20MHz_Chain1_5180MHz



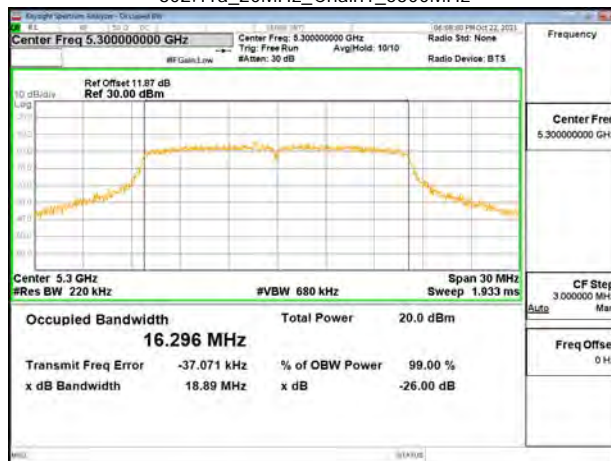
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5320MHz

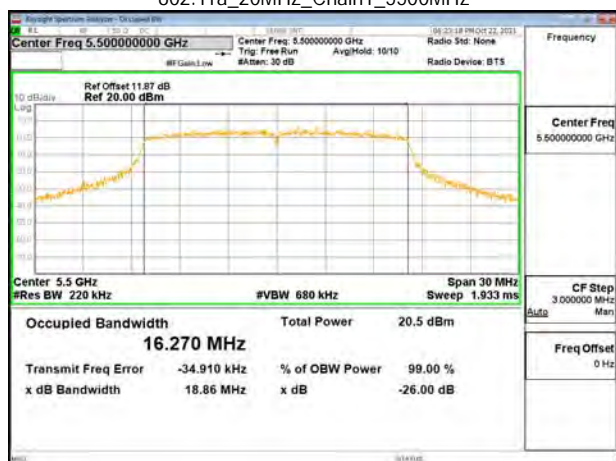


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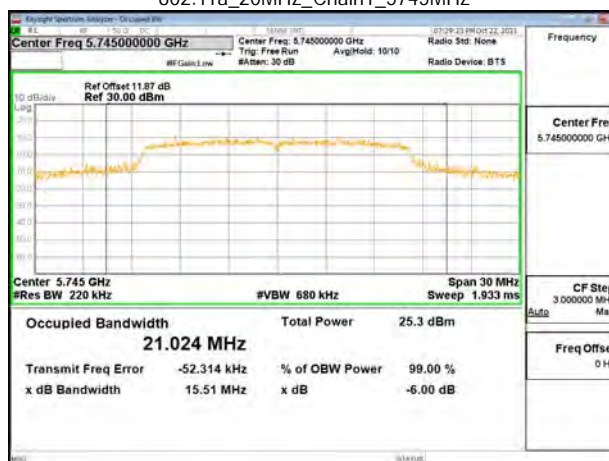
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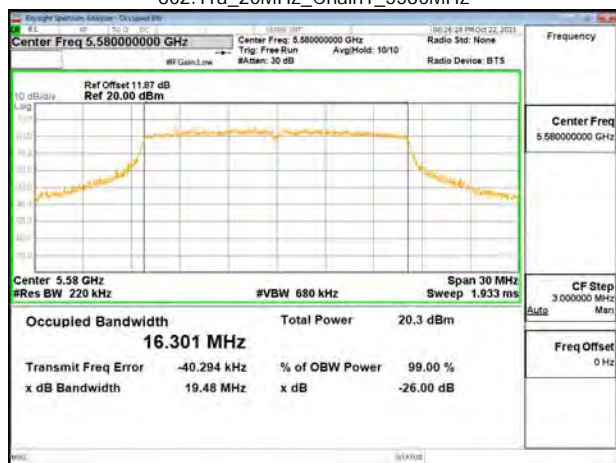
802.11a_20MHz_Chain1_5500MHz



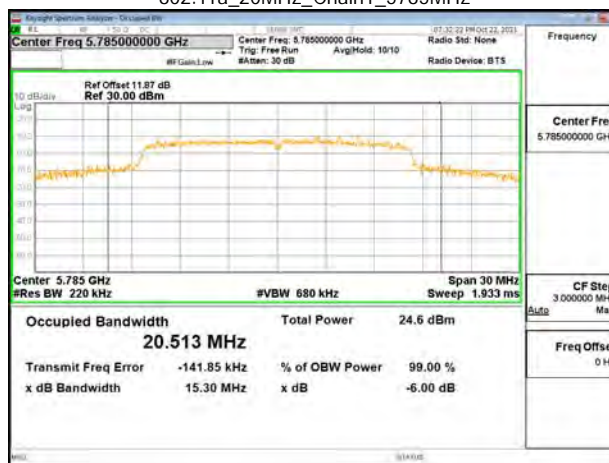
802.11a_20MHz_Chain1_5745MHz



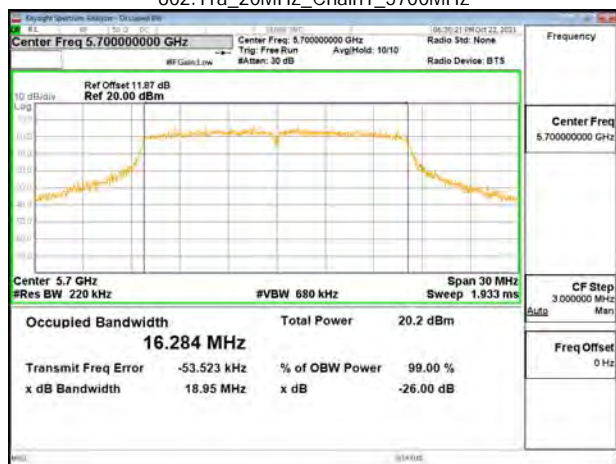
802.11a_20MHz_Chain1_5580MHz



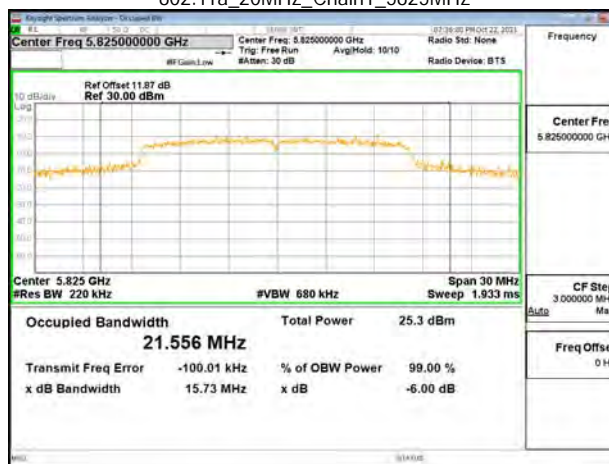
802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5825MHz



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802.11n_20MHz_Chain0_5180MHz



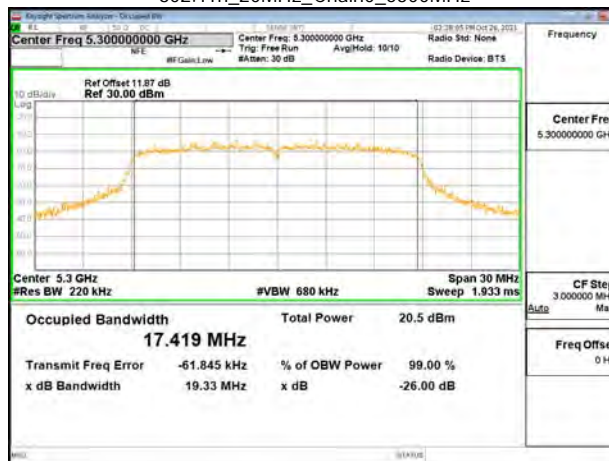
802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



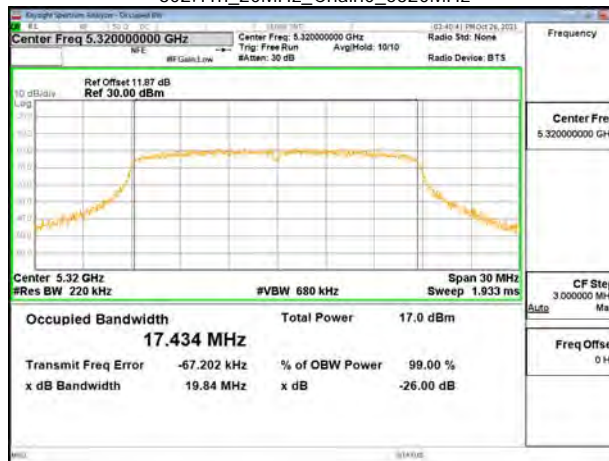
802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5320MHz



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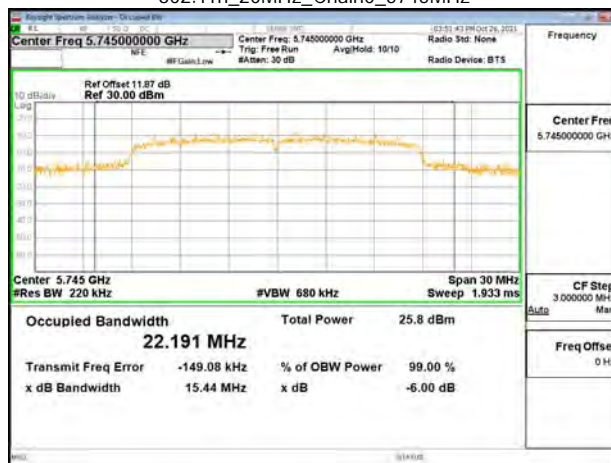
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802.11n_20MHz_Chain0_5500MHz



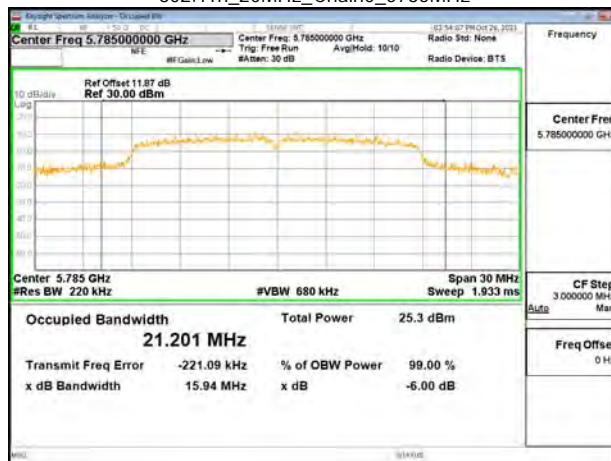
802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5825MHz



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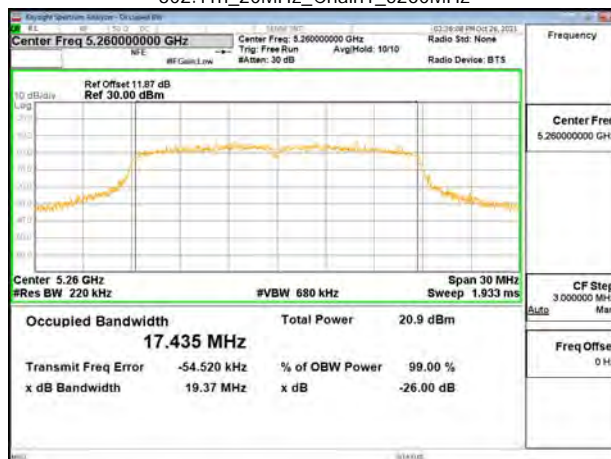
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802.11n_20MHz_Chain1_5180MHz



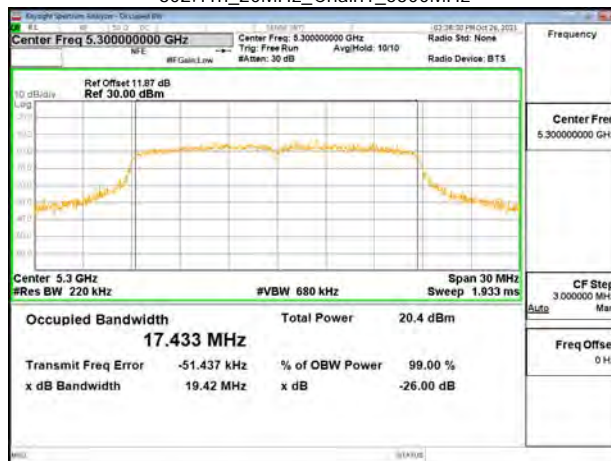
802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz

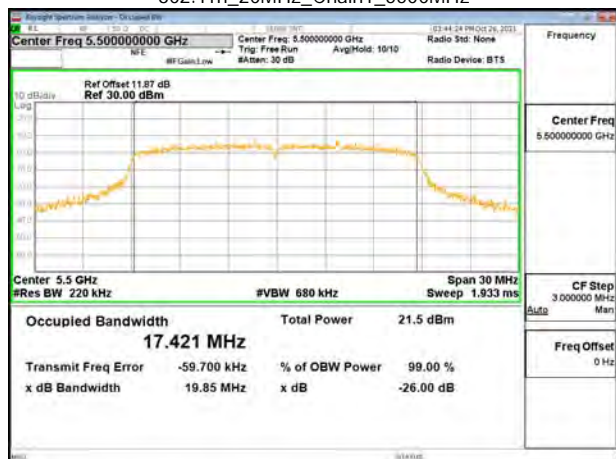


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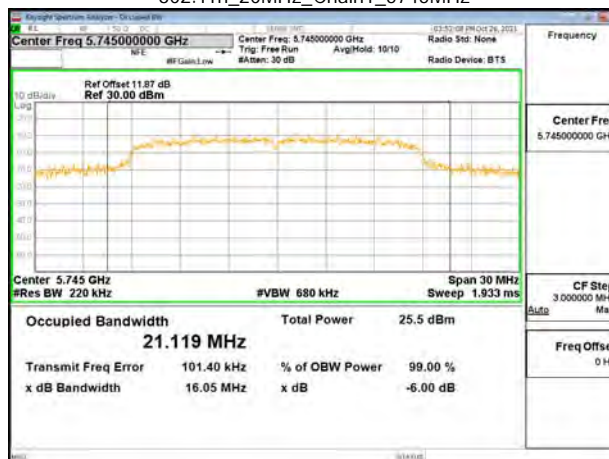
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802.11n_20MHz_Chain1_5500MHz



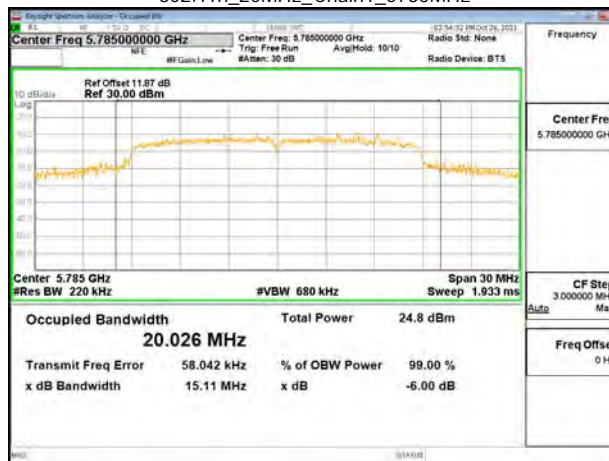
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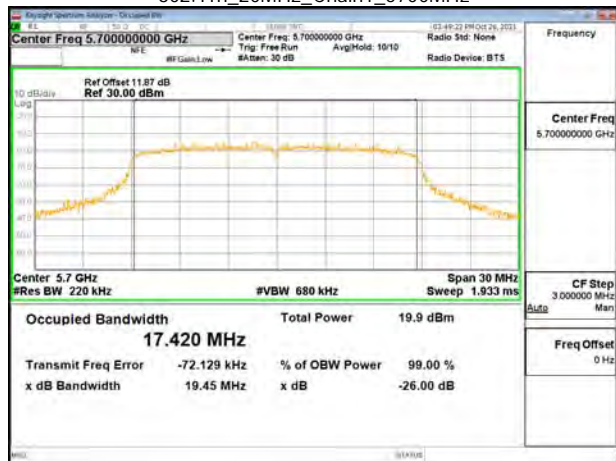
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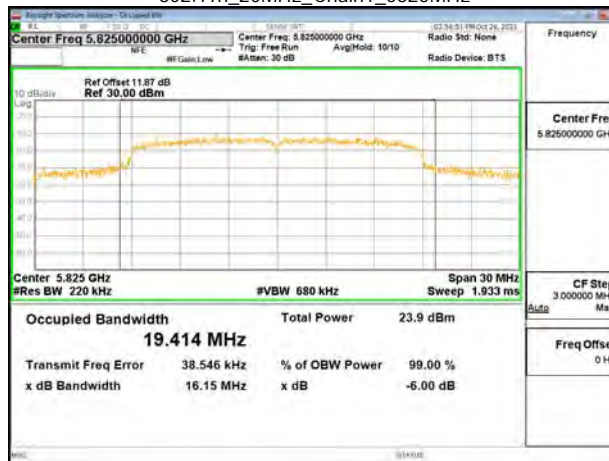
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802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5825MHz

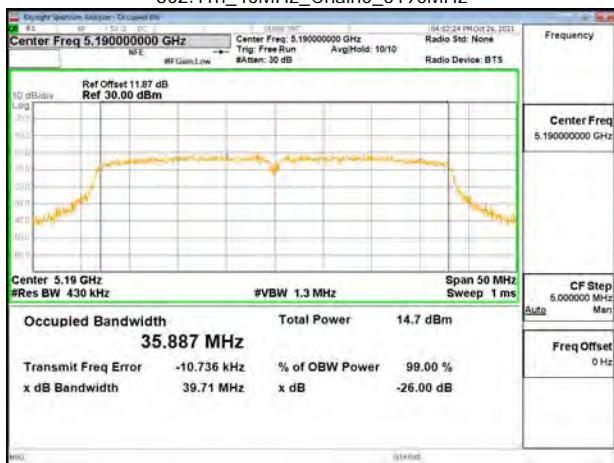


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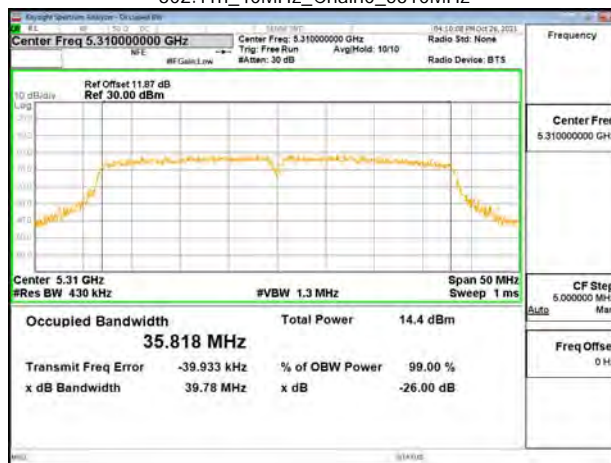
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802.11n_40MHz_Chain0_5190MHz



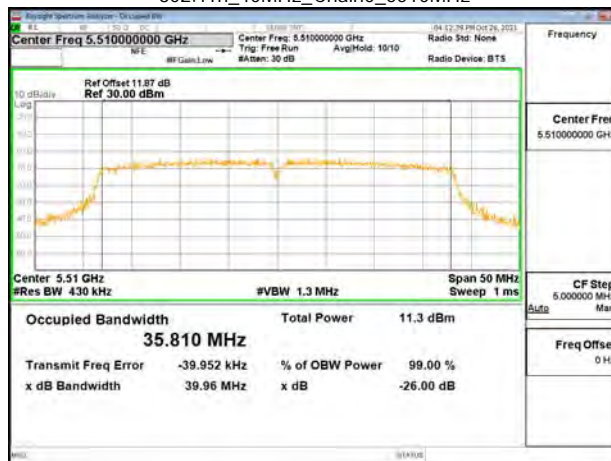
802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5230MHz



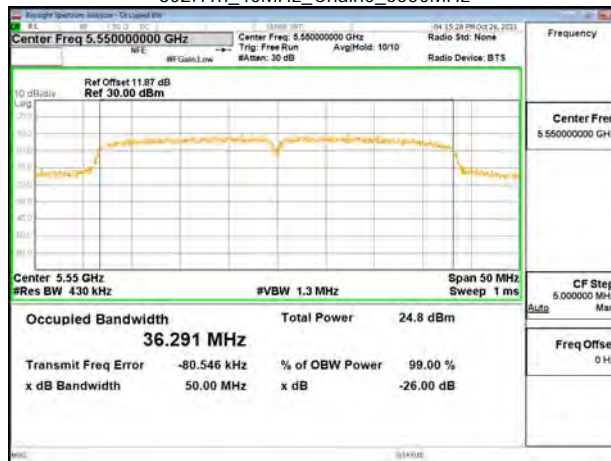
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



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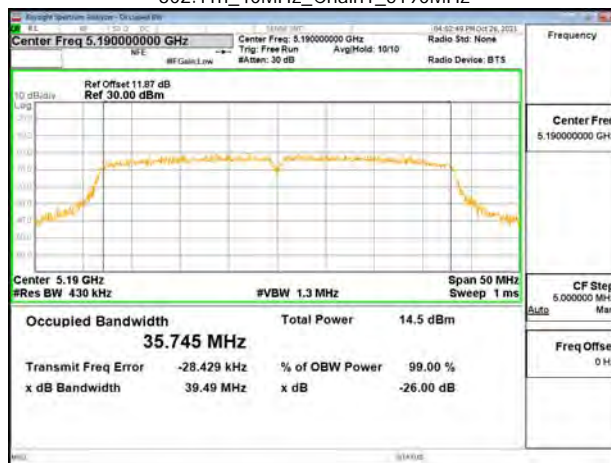
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802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain1_5190MHz



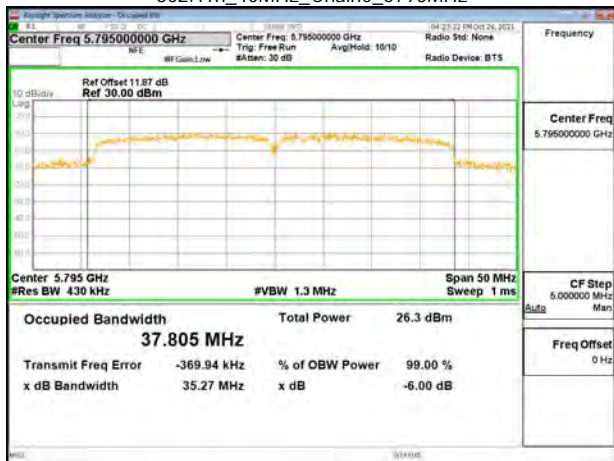
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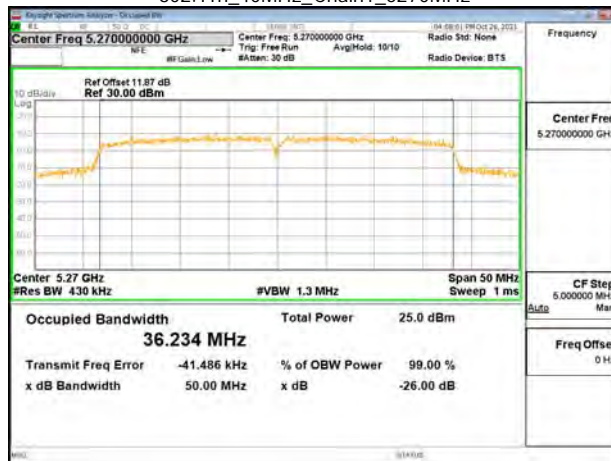
802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz

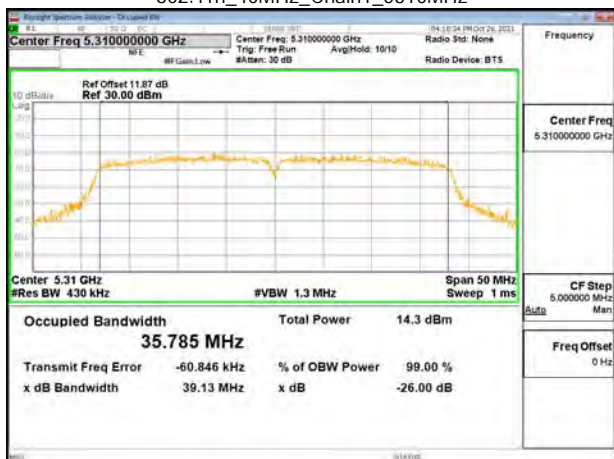


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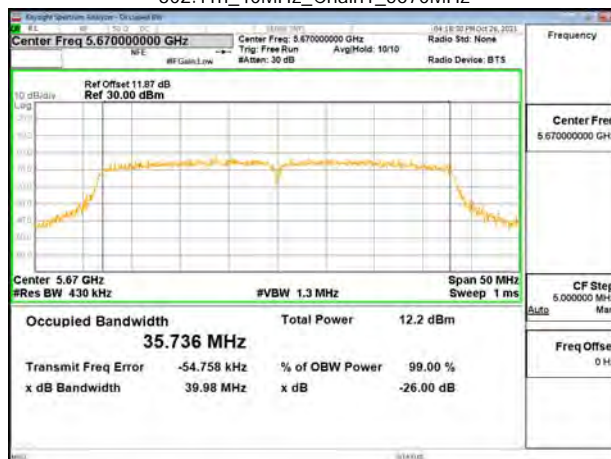
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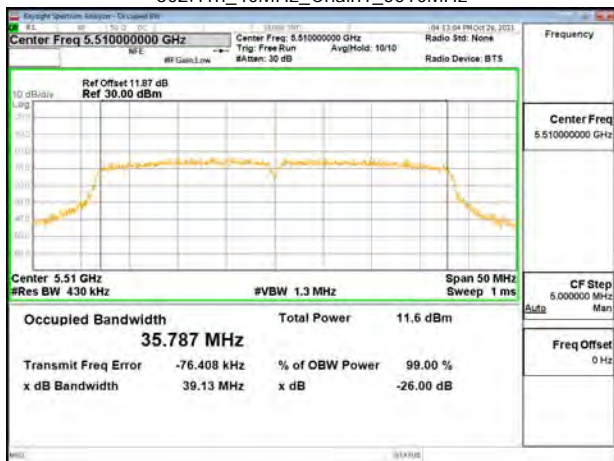
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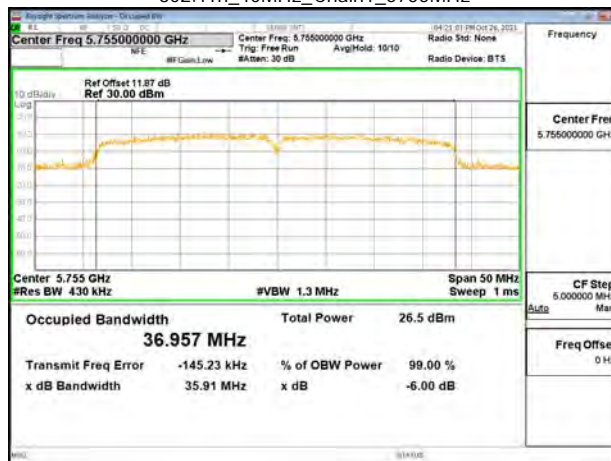
802.11n_40MHz_Chain1_5670MHz



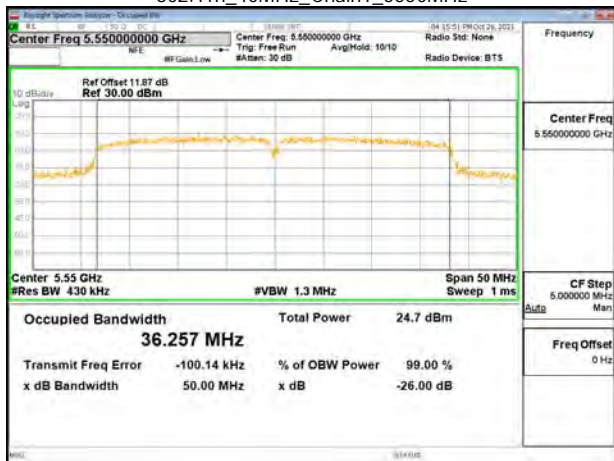
802.11n_40MHz_Chain1_5510MHz



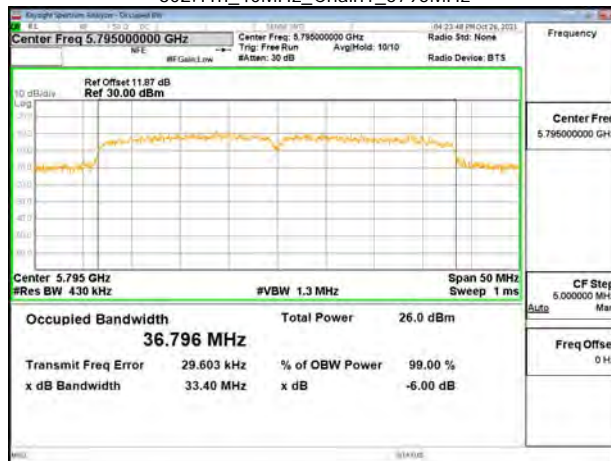
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5795MHz

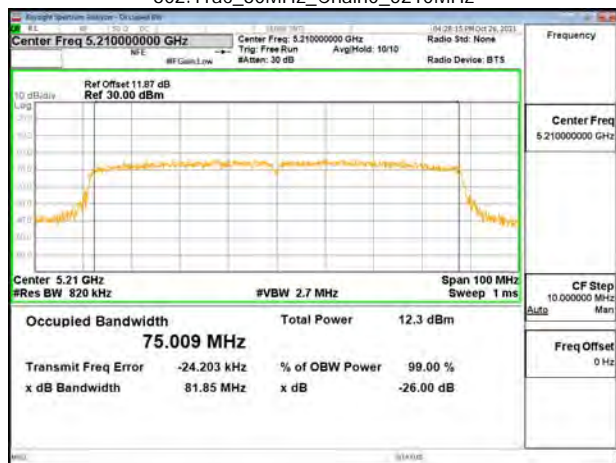


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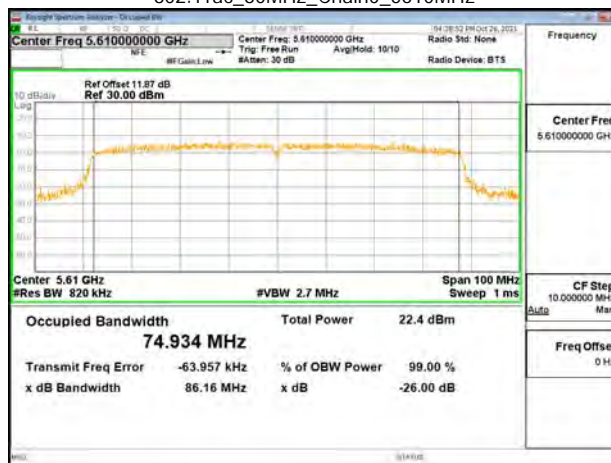
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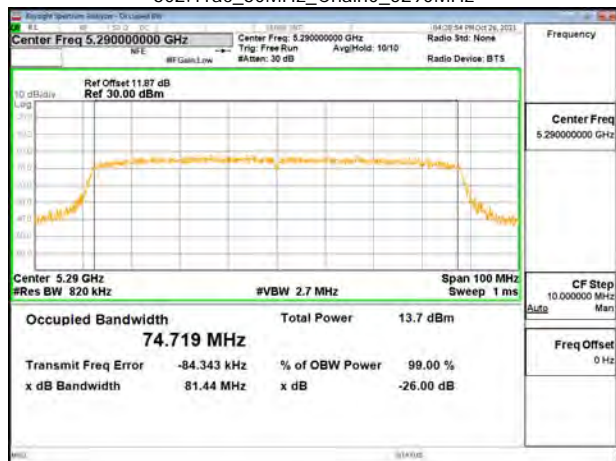
802.11ac_80MHz_Chain0_5210MHz



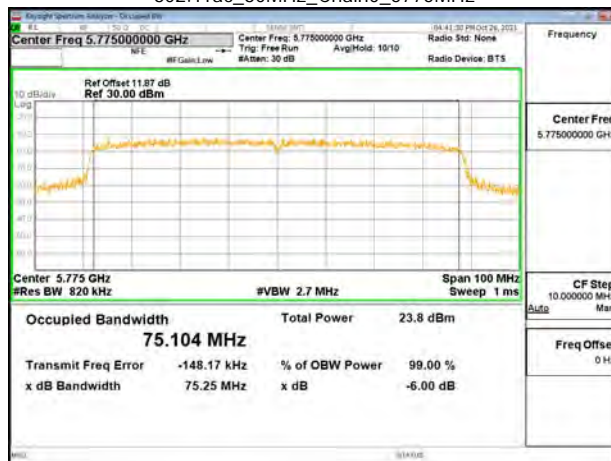
802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5290MHz



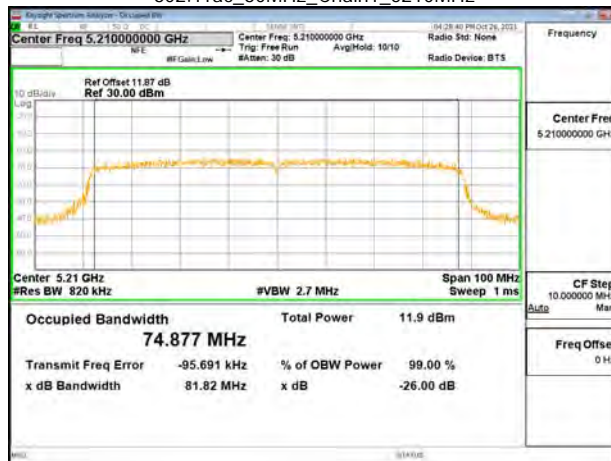
802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain1_5210MHz

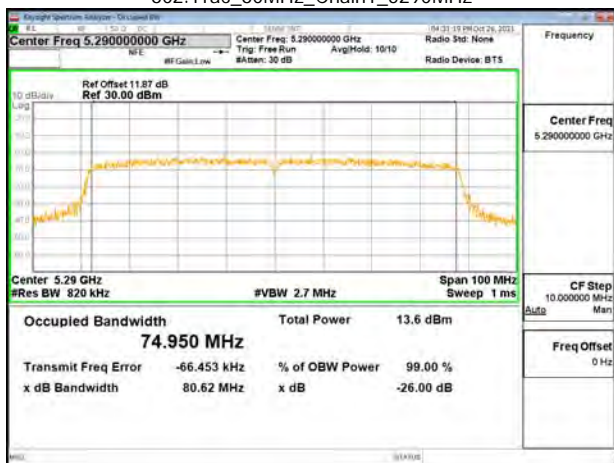


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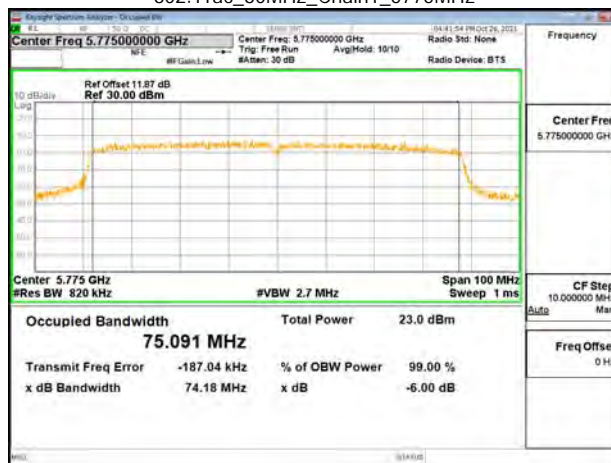
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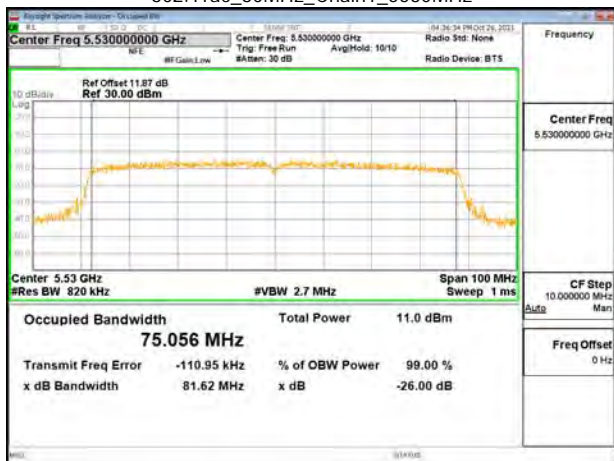
802.11ac_80MHz_Chain1_5290MHz



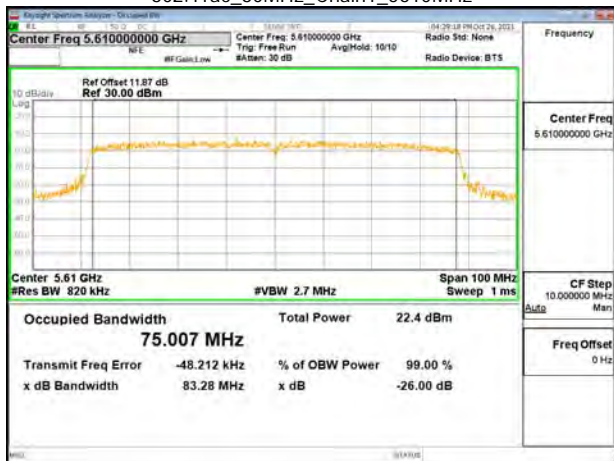
802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5610MHz



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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 Output Power

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
		Out door 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
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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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	$-13 \text{ dBW/MHz for } 0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8) \text{ dBW/MHz for } 8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40) \text{ dBW/MHz for } 40^\circ \leq \theta \leq 45^\circ$ $-42 \text{ dBW/MHz for } \theta > 45^\circ$	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.

8.2 Measurement Equipment Used

8.2.1 Duty Cycle

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

Note: N.C.R refers to No calibration required

8.2.2 Output Power

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022

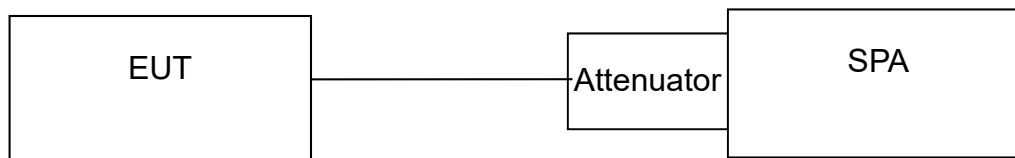
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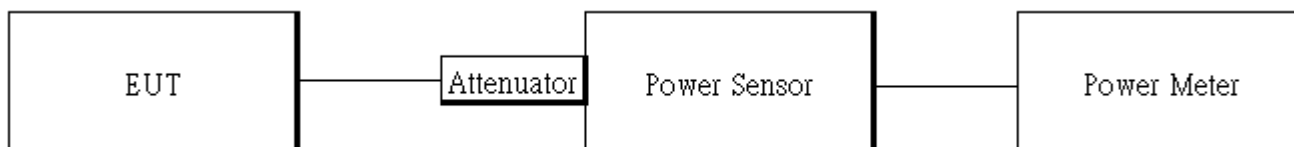
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8.3 Test Set-up

8.3.1 Duty Cycle



8.3.2 Output Power



8.4 Measurement Procedure

8.4.1 Duty Cycle Measurements

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

8.4.2 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 $10 \log(1/\text{duty cycle})$.
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.
Cable Loss Offset:11.87

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8.5 Duty Cycle Measurement Result

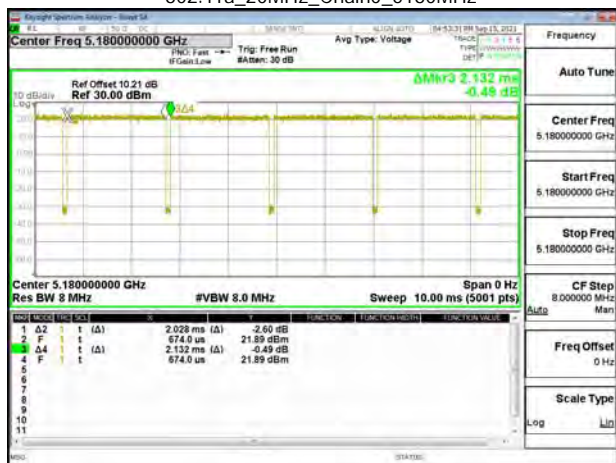
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	95.12	0.22	0.49	1.00
802.11n_20	94.78	0.23	0.53	1.00
802.11ac_20	94.91	0.23	0.53	1.00
802.11n_40	89.92	0.46	1.08	2.00
802.11ac_40	90.00	0.46	1.07	2.00
802.11ac_80	81.43	0.89	2.19	3.00

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802.11a_20MHz_Chain0_5180MHz



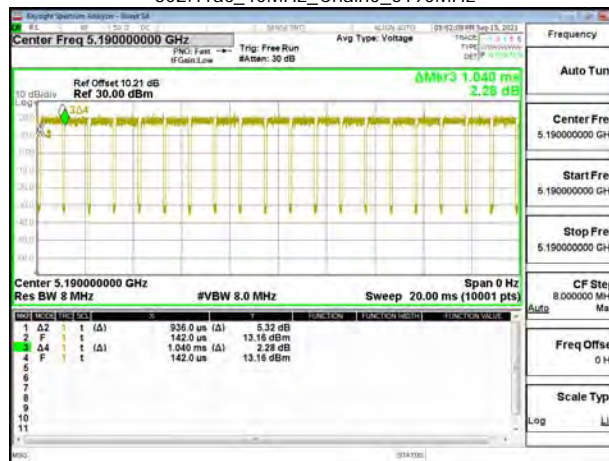
802.11ac_20MHz_Chain0_5180MHz



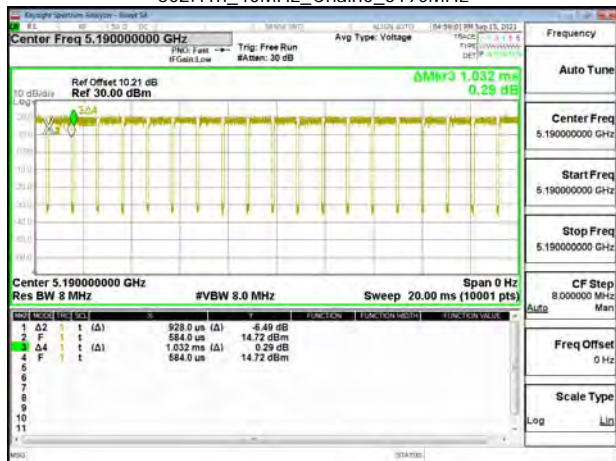
802.11n_20MHz_Chain0_5180MHz



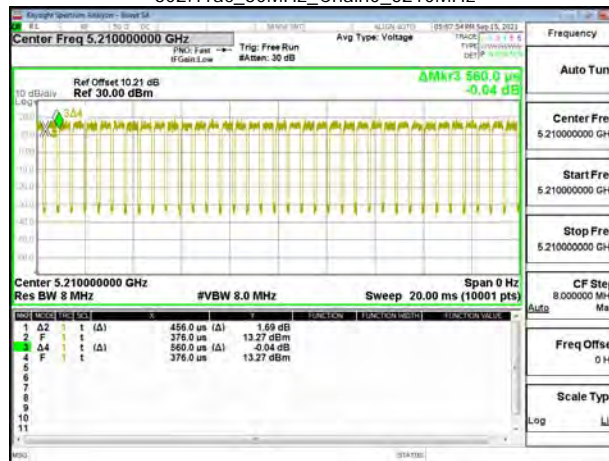
802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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8.6 Output Power Measurement Result

8.6.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	8	7.85	6.092	23.98	PASS
44	5220	6	8	7.80	6.022	23.98	PASS
48	5240	6	8	7.79	6.008	23.98	PASS
52	5260	6	15	14.83	30.390	23.73	PASS
60	5300	6	15	14.69	29.426	23.78	PASS
64	5320	6	15	14.73	29.698	23.84	PASS
100	5500	6	16	15.05	31.969	23.63	PASS
116	5580	6	16	15.48	35.296	23.84	PASS
140	5700	6	16	14.94	31.169	23.74	PASS
149	5745	6	25	20.55	113.430	30	PASS
157	5785	6	25	20.42	110.085	30	PASS
165	5825	6	25	20.27	106.348	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	8.5	7.77	5.980	23.98	PASS
44	5220	6	8.5	7.83	6.064	23.98	PASS
48	5240	6	8.5	7.81	6.036	23.98	PASS
52	5260	6	15	14.84	30.460	23.76	PASS
60	5300	6	15	14.68	29.358	23.67	PASS
64	5320	6	15	14.74	29.767	23.88	PASS
100	5500	6	15.5	14.75	29.835	23.73	PASS
116	5580	6	16	15.11	32.414	23.86	PASS
140	5700	6	16.5	14.85	30.530	23.76	PASS
149	5745	6	25	20.18	104.167	30	PASS
157	5785	6	25	20.14	103.212	30	PASS
165	5825	6	25	19.97	99.249	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	8.5	8.17	7.59	11.12	12.942	21.98	PASS
44	5220	6	8.5	8.05	7.63	11.07	12.794	21.98	PASS
48	5240	6	8.5	8.08	7.61	11.08	12.823	21.98	PASS
52	5260	6	15	14.81	14.63	17.95	62.373	21.98	PASS
60	5300	6	15	14.53	14.55	17.77	59.841	21.98	PASS
64	5320	6	15	14.6	14.55	17.80	60.256	21.98	PASS
100	5500	6	16	14.96	14.74	18.08	64.269	21.98	PASS
116	5580	6	16	15.62	14.9	18.50	70.795	21.98	PASS
140	5700	6	16	15.08	14.71	18.13	65.013	21.98	PASS
149	5745	6	25	20.63	20.09	23.60	229.087	28.02	PASS
157	5785	6	25	20.45	19.96	23.44	220.800	28.02	PASS
165	5825	6	25	20.24	19.85	23.28	212.814	28.02	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	8.5	7.66	5.838	23.98	PASS
44	5220	MCS0	8.5	7.66	5.838	23.98	PASS
48	5240	MCS0	9	8.04	6.372	23.98	PASS
52	5260	MCS0	15.5	14.63	29.059	23.9	PASS
60	5300	MCS0	15.5	14.41	27.624	23.87	PASS
64	5320	MCS0	12	10.92	12.368	23.98	PASS
100	5500	MCS0	15.5	14.11	25.780	23.89	PASS
116	5580	MCS0	16.5	15.43	34.937	23.89	PASS
140	5700	MCS0	15.5	14.06	25.485	23.95	PASS
149	5745	MCS0	23	19.41	87.354	30	PASS
157	5785	MCS0	23	19.40	87.153	30	PASS
165	5825	MCS0	23	19.24	84.001	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	9	7.77	5.988	23.98	PASS
44	5220	MCS0	9	7.79	6.016	23.98	PASS
48	5240	MCS0	9	8.12	6.491	23.98	PASS
52	5260	MCS0	15.5	14.90	30.923	23.93	PASS
60	5300	MCS0	15.5	14.79	30.150	23.98	PASS
64	5320	MCS0	12	10.91	12.339	23.98	PASS
100	5500	MCS0	16	14.88	30.781	23.98	PASS
116	5580	MCS0	16	15.01	31.716	23.95	PASS
140	5700	MCS0	16	14.12	25.839	23.91	PASS
149	5745	MCS0	24.5	19.59	91.051	30	PASS
157	5785	MCS0	24.5	19.68	92.957	30	PASS
165	5825	MCS0	24.5	19.53	89.801	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS8	9	7.63	7.56	10.82	12.078	21.98	PASS
44	5220	MCS8	9	7.59	7.57	10.81	12.050	21.98	PASS
48	5240	MCS8	9.5	7.84	8.16	11.23	13.274	21.98	PASS
52	5260	MCS8	16	14.43	14.95	17.93	62.087	21.98	PASS
60	5300	MCS8	16	14.35	14.83	17.82	60.534	21.98	PASS
64	5320	MCS8	12.5	10.9	11.4	14.38	27.416	21.98	PASS
100	5500	MCS8	17	14.73	15.07	18.13	65.013	21.98	PASS
116	5580	MCS8	17	15.22	15.3	18.49	70.632	21.98	PASS
140	5700	MCS8	16	13.87	14.09	17.21	52.602	21.98	PASS
149	5745	MCS8	25	19.23	19.56	22.63	183.231	28.02	PASS
157	5785	MCS8	25	19.4	19.66	22.76	188.799	28.02	PASS
165	5825	MCS8	25	19.17	19.46	22.55	179.887	28.02	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	9	7.91	6.182	23.98	PASS
46	5230	MCS0	12	10.67	11.672	23.98	PASS
54	5270	MCS0	20	17.71	59.040	23.98	PASS
62	5310	MCS0	9	7.62	5.783	23.98	PASS
102	5510	MCS0	6.5	4.92	3.106	23.98	PASS
110	5550	MCS0	20.5	17.77	59.861	23.98	PASS
134	5670	MCS0	7	5.48	3.533	23.98	PASS
151	5755	MCS0	22	19.07	80.750	30	PASS
159	5795	MCS0	22	18.89	77.472	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	9	7.65	5.823	23.98	PASS
46	5230	MCS0	12	10.68	11.699	23.98	PASS
54	5270	MCS0	19.5	17.74	59.449	23.98	PASS
62	5310	MCS0	9	7.61	5.770	23.98	PASS
102	5510	MCS0	6	4.73	2.973	23.98	PASS
110	5550	MCS0	20	17.85	60.974	23.98	PASS
134	5670	MCS0	7	5.39	3.461	23.98	PASS
151	5755	MCS0	22.5	18.85	76.762	30	PASS
159	5795	MCS0	22.5	18.72	74.498	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS8	9.5	7.46	7.42	10.67	11.668	21.98	PASS
46	5230	MCS8	12.5	10.61	10.33	13.70	23.442	21.98	PASS
54	5270	MCS8	21	17.35	17.7	20.76	119.124	21.98	PASS
62	5310	MCS8	9.5	7.35	7.46	10.63	11.561	21.98	PASS
102	5510	MCS8	7	4.69	4.71	7.93	6.209	21.98	PASS
110	5550	MCS8	22	17.69	17.88	21.01	126.183	21.98	PASS
134	5670	MCS8	7.5	5.08	5.62	8.59	7.228	21.98	PASS
151	5755	MCS8	25	18.72	18.99	22.08	161.436	28.02	PASS
159	5795	MCS8	25	18.59	18.76	21.90	154.882	28.02	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	8.5	7.62	5.777	23.98	PASS
44	5220	MCS0	8.5	7.59	5.737	23.98	PASS
48	5240	MCS0	9	7.91	6.176	23.98	PASS
52	5260	MCS0	15.5	14.49	28.099	23.9	PASS
60	5300	MCS0	15.5	14.32	27.020	23.87	PASS
64	5320	MCS0	12	10.71	11.768	23.98	PASS
100	5500	MCS0	15.5	14.05	25.391	23.89	PASS
116	5580	MCS0	16.5	15.42	34.809	23.89	PASS
140	5700	MCS0	15.5	13.99	25.043	23.95	PASS
149	5745	MCS0	23	19.26	84.273	30	PASS
157	5785	MCS0	23	19.39	86.834	30	PASS
165	5825	MCS0	23	19.23	83.693	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	9	7.74	5.939	23.98	PASS
44	5220	MCS0	9	7.73	5.925	23.98	PASS
48	5240	MCS0	9	8.11	6.467	23.98	PASS
52	5260	MCS0	15.5	14.80	30.178	23.93	PASS
60	5300	MCS0	15.5	14.63	29.019	23.98	PASS
64	5320	MCS0	12	10.88	12.237	23.98	PASS
100	5500	MCS0	16	14.87	30.668	23.98	PASS
116	5580	MCS0	16	15.00	31.600	23.95	PASS
140	5700	MCS0	16	14.08	25.567	23.91	PASS
149	5745	MCS0	24.5	19.52	89.472	30	PASS
157	5785	MCS0	24.5	19.56	90.300	30	PASS
165	5825	MCS0	24.5	19.45	88.042	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	9	7.62	7.55	10.81	12.050	21.98	PASS
44	5220	MCS0	9	7.51	7.52	10.74	11.858	21.98	PASS
48	5240	MCS0	9.5	7.81	8.06	11.16	13.062	21.98	PASS
52	5260	MCS0	16	14.27	14.92	17.83	60.674	21.98	PASS
60	5300	MCS0	16	14.12	14.68	17.64	58.076	21.98	PASS
64	5320	MCS0	12.5	10.7	11.09	14.13	25.882	21.98	PASS
100	5500	MCS0	17	14.67	15.02	18.08	64.269	21.98	PASS
116	5580	MCS0	17	15.2	15.28	18.47	70.307	21.98	PASS
140	5700	MCS0	16	13.77	14.07	17.15	51.880	21.98	PASS
149	5745	MCS0	25	19.04	19.55	22.53	179.061	28.02	PASS
157	5785	MCS0	25	19.26	19.56	22.64	183.654	28.02	PASS
165	5825	MCS0	25	19.14	19.38	22.49	177.419	28.02	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	9	7.58	5.725	23.98	PASS
46	5230	MCS0	12	10.46	11.111	23.98	PASS
54	5270	MCS0	20	17.70	58.851	23.98	PASS
62	5310	MCS0	9	7.46	5.569	23.98	PASS
102	5510	MCS0	6.5	4.79	3.011	23.98	PASS
110	5550	MCS0	20.5	17.74	59.396	23.98	PASS
134	5670	MCS0	7	5.25	3.348	23.98	PASS
151	5755	MCS0	22	18.85	76.693	30	PASS
159	5795	MCS0	22	18.61	72.570	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	9	7.60	5.751	23.98	PASS
46	5230	MCS0	12	10.46	11.111	23.98	PASS
54	5270	MCS0	19.5	17.67	58.446	23.98	PASS
62	5310	MCS0	9	7.45	5.556	23.98	PASS
102	5510	MCS0	6	4.66	2.923	23.98	PASS
110	5550	MCS0	20	17.80	60.222	23.98	PASS
134	5670	MCS0	7	5.30	3.387	23.98	PASS
151	5755	MCS0	22.5	18.84	76.517	30	PASS
159	5795	MCS0	22.5	18.65	73.242	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	9.5	7.45	7.41	10.66	11.641	21.98	PASS
46	5230	MCS0	12.5	10.26	10.22	13.47	22.233	21.98	PASS
54	5270	MCS0	21	17.28	17.69	20.72	118.032	21.98	PASS
62	5310	MCS0	9.5	7.29	7.17	10.46	11.117	21.98	PASS
102	5510	MCS0	7	4.5	4.65	7.80	6.026	21.98	PASS
110	5550	MCS0	22	17.64	17.85	20.97	125.026	21.98	PASS
134	5670	MCS0	7.5	4.84	5.31	8.31	6.776	21.98	PASS
151	5755	MCS0	25	18.7	18.76	21.96	157.036	28.02	PASS
159	5795	MCS0	25	18.33	18.54	21.66	146.555	28.02	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	5.5	4.52	2.833	23.98	PASS
58	5290	MCS0	7	6.03	4.011	23.98	PASS
106	5530	MCS0	5	4.00	2.513	23.98	PASS
122	5610	MCS0	16	15.08	32.227	23.98	PASS
155	5775	MCS0	18	16.61	45.837	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	6	4.51	2.826	23.98	PASS
58	5290	MCS0	7.5	6.01	3.992	23.98	PASS
106	5530	MCS0	5.5	4.03	2.531	23.98	PASS
122	5610	MCS0	16.5	15.18	32.977	23.98	PASS
155	5775	MCS0	18	15.78	37.863	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	6.5	4.47	4.17	7.55	5.689	21.98	PASS
58	5290	MCS0	8	5.72	5.95	9.06	8.054	21.98	PASS
106	5530	MCS0	6	3.84	3.78	7.04	5.058	21.98	PASS
122	5610	MCS0	17.5	14.91	15.11	18.24	66.681	21.98	PASS
155	5775	MCS0	18.5	15.78	15.53	18.88	77.268	28.02	PASS

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8.6.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.83	30.390	23.12	PASS
60	5300	14.69	29.426	23.11	PASS
64	5320	14.73	29.698	23.11	PASS
100	5500	15.05	31.969	23.11	PASS
116	5580	15.48	35.296	23.12	PASS
140	5700	14.94	31.169	23.11	PASS
149	5745	20.55	113.430	30	PASS
157	5785	20.42	110.085	30	PASS
165	5825	20.27	106.348	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.84	30.460	23.12	PASS
60	5300	14.68	29.358	23.12	PASS
64	5320	14.74	29.767	23.12	PASS
100	5500	14.75	29.835	23.11	PASS
116	5580	15.11	32.414	23.12	PASS
140	5700	14.85	30.530	23.12	PASS
149	5745	20.18	104.167	30	PASS
157	5785	20.14	103.212	30	PASS
165	5825	19.97	99.249	30	PASS

802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	14.81	14.63	17.95	62.373	23.12	PASS
60	5300	14.53	14.55	17.77	59.841	23.11	PASS
64	5320	14.6	14.55	17.80	60.256	23.11	PASS
100	5500	14.96	14.74	18.08	64.269	23.11	PASS
116	5580	15.62	14.9	18.50	70.795	23.12	PASS
140	5700	15.08	14.71	18.13	65.013	23.11	PASS
149	5745	20.63	20.09	23.60	229.087	28.02	PASS
157	5785	20.45	19.96	23.44	220.800	28.02	PASS
165	5825	20.24	19.85	23.28	212.814	28.02	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.63	29.059	23.4	PASS
60	5300	14.41	27.624	23.41	PASS
64	5320	10.92	12.368	23.41	PASS
100	5500	14.11	25.780	23.4	PASS
116	5580	15.43	34.937	23.41	PASS
140	5700	14.06	25.485	23.41	PASS
149	5745	19.41	87.354	30	PASS
157	5785	19.40	87.153	30	PASS
165	5825	19.24	84.001	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.90	30.923	23.41	PASS
60	5300	14.79	30.150	23.41	PASS
64	5320	10.91	12.339	23.41	PASS
100	5500	14.88	30.781	23.41	PASS
116	5580	15.01	31.716	23.4	PASS
140	5700	14.12	25.839	23.41	PASS
149	5745	19.59	91.051	30	PASS
157	5785	19.68	92.957	30	PASS
165	5825	19.53	89.801	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	14.43	14.95	17.93	62.087	23.4	PASS
60	5300	14.35	14.83	17.82	60.534	23.41	PASS
64	5320	10.9	11.4	14.38	27.416	23.41	PASS
100	5500	14.73	15.07	18.13	65.013	23.4	PASS
116	5580	15.22	15.3	18.49	70.632	23.4	PASS
140	5700	13.87	14.09	17.21	52.602	23.41	PASS
149	5745	19.23	19.56	22.63	183.231	28.02	PASS
157	5785	19.4	19.66	22.76	188.799	28.02	PASS
165	5825	19.17	19.46	22.55	179.887	28.02	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.71	59.040	23.98	PASS
62	5310	7.62	5.783	23.98	PASS
102	5510	4.92	3.106	23.98	PASS
110	5550	17.77	59.861	23.98	PASS
134	5670	5.48	3.533	23.98	PASS
151	5755	19.07	80.750	30	PASS
159	5795	18.89	77.472	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.74	59.449	23.98	PASS
62	5310	7.61	5.770	23.98	PASS
102	5510	4.73	2.973	23.98	PASS
110	5550	17.85	60.974	23.98	PASS
134	5670	5.39	3.461	23.98	PASS
151	5755	18.85	76.762	30	PASS
159	5795	18.72	74.498	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	17.35	17.7	20.76	119.124	23.98	PASS
62	5310	7.35	7.46	10.63	11.561	23.98	PASS
102	5510	4.69	4.71	7.93	6.209	23.98	PASS
110	5550	17.69	17.88	21.01	126.183	23.98	PASS
134	5670	5.08	5.62	8.59	7.228	23.98	PASS
151	5755	18.72	18.99	22.08	161.436	28.02	PASS
159	5795	18.59	18.76	21.90	154.882	28.02	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.49	28.099	23.4	PASS
60	5300	14.32	27.020	23.41	PASS
64	5320	10.71	11.768	23.41	PASS
100	5500	14.05	25.391	23.4	PASS
116	5580	15.42	34.809	23.41	PASS
140	5700	13.99	25.043	23.41	PASS
149	5745	19.26	84.273	30	PASS
157	5785	19.39	86.834	30	PASS
165	5825	19.23	83.693	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.80	30.178	23.41	PASS
60	5300	14.63	29.019	23.41	PASS
64	5320	10.88	12.237	23.41	PASS
100	5500	14.87	30.668	23.41	PASS
116	5580	15.00	31.600	23.4	PASS
140	5700	14.08	25.567	23.41	PASS
149	5745	19.52	89.472	30	PASS
157	5785	19.56	90.300	30	PASS
165	5825	19.45	88.042	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	14.27	14.92	17.83	60.674	23.4	PASS
60	5300	14.12	14.68	17.64	58.076	23.41	PASS
64	5320	10.7	11.09	14.13	25.882	23.41	PASS
100	5500	14.67	15.02	18.08	64.269	23.4	PASS
116	5580	15.2	15.28	18.47	70.307	23.4	PASS
140	5700	13.77	14.07	17.15	51.880	23.41	PASS
149	5745	19.04	19.55	22.53	179.061	28.02	PASS
157	5785	19.26	19.56	22.64	183.654	28.02	PASS
165	5825	19.14	19.38	22.49	177.419	28.02	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.70	58.851	23.98	PASS
62	5310	7.46	5.569	23.98	PASS
102	5510	4.79	3.011	23.98	PASS
110	5550	17.74	59.396	23.98	PASS
134	5670	5.25	3.348	23.98	PASS
151	5755	18.85	76.693	30	PASS
159	5795	18.61	72.570	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.67	58.446	23.98	PASS
62	5310	7.45	5.556	23.98	PASS
102	5510	4.66	2.923	23.98	PASS
110	5550	17.80	60.222	23.98	PASS
134	5670	5.30	3.387	23.98	PASS
151	5755	18.84	76.517	30	PASS
159	5795	18.65	73.242	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	17.28	17.69	20.72	118.032	23.98	PASS
62	5310	7.29	7.17	10.46	11.117	23.98	PASS
102	5510	4.5	4.65	7.80	6.026	23.98	PASS
110	5550	17.64	17.85	20.97	125.026	23.98	PASS
134	5670	4.84	5.31	8.31	6.776	23.98	PASS
151	5755	18.7	18.76	21.96	157.036	28.02	PASS
159	5795	18.33	18.54	21.66	146.555	28.02	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	6.03	4.011	23.98	PASS
106	5530	4.00	2.513	23.98	PASS
122	5610	15.08	32.227	23.98	PASS
155	5775	16.61	45.837	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	6.01	3.992	23.98	PASS
106	5530	4.03	2.531	23.98	PASS
122	5610	15.18	32.977	23.98	PASS
155	5775	15.78	37.863	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	5.72	5.95	9.06	8.054	23.98	PASS
106	5530	3.84	3.78	7.04	5.058	23.98	PASS
122	5610	14.91	15.11	18.24	66.681	23.98	PASS
155	5775	15.78	15.53	18.88	77.268	28.02	PASS

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802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.85	4.99	12.84	19.219	22.12	PASS
44	5220	7.80	4.99	12.79	18.999	22.12	PASS
48	5240	7.79	4.99	12.78	18.955	22.11	PASS
52	5260	14.83	4.99	19.82	95.880	29.12	PASS
60	5300	14.69	4.99	19.68	92.839	29.11	PASS
64	5320	14.73	4.99	19.72	93.698	29.11	PASS
100	5500	15.05	4.99	20.04	100.862	29.11	PASS
116	5580	15.48	4.99	20.47	111.360	29.12	PASS
140	5700	14.94	4.99	19.93	98.340	29.11	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.77	4.990	12.76	18.868	23.01	PASS
44	5220	7.83	4.990	12.82	19.131	23.01	PASS
48	5240	7.81	4.990	12.80	19.043	23.01	PASS
52	5260	14.84	4.990	19.83	96.101	30	PASS
60	5300	14.68	4.990	19.67	92.625	30	PASS
64	5320	14.74	4.990	19.73	93.914	30	PASS
100	5500	14.75	4.990	19.74	94.130	30	PASS
116	5580	15.11	4.990	20.10	102.265	30	PASS
140	5700	14.85	4.990	19.84	96.323	30	PASS

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.12	8.00	19.12	81.658	22.11	PASS
44	5220	11.07	8.00	19.07	80.724	22.11	PASS
48	5240	11.08	8.00	19.08	80.910	22.11	PASS
52	5260	17.95	8.00	25.95	393.550	30	PASS
60	5300	17.77	8.00	25.77	377.572	30	PASS
64	5320	17.80	8.00	25.80	380.189	30	PASS
100	5500	18.08	8.00	26.08	405.509	29.11	PASS
116	5580	18.50	8.00	26.50	446.684	30	PASS
140	5700	18.13	8.00	26.13	410.204	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.66	4.99	12.65	18.420	22.4	PASS
44	5220	7.66	4.99	12.65	18.420	22.41	PASS
48	5240	8.04	4.99	13.03	20.104	22.41	PASS
52	5260	14.63	4.99	19.62	91.682	29.4	PASS
60	5300	14.41	4.99	19.40	87.153	29.41	PASS
64	5320	10.92	4.99	15.91	39.020	29.41	PASS
100	5500	14.11	4.99	19.10	81.336	29.4	PASS
116	5580	15.43	4.99	20.42	110.226	29.41	PASS
140	5700	14.06	4.99	19.05	80.405	29.41	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.77	4.990	12.76	18.892	23.01	PASS
44	5220	7.79	4.990	12.78	18.979	23.01	PASS
48	5240	8.12	4.990	13.11	20.478	23.01	PASS
52	5260	14.90	4.990	19.89	97.563	30	PASS
60	5300	14.79	4.990	19.78	95.123	30	PASS
64	5320	10.91	4.990	15.90	38.930	30	PASS
100	5500	14.88	4.990	19.87	97.114	30	PASS
116	5580	15.01	4.990	20.00	100.065	30	PASS
140	5700	14.12	4.990	19.11	81.524	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.82	8.00	18.82	76.208	22.4	PASS
44	5220	10.81	8.00	18.81	76.033	22.4	PASS
48	5240	11.23	8.00	19.23	83.753	22.41	PASS
52	5260	17.93	8.00	25.93	391.742	29.4	PASS
60	5300	17.82	8.00	25.82	381.944	29.41	PASS
64	5320	14.38	8.00	22.38	172.982	29.41	PASS
100	5500	18.13	8.00	26.13	410.204	29.4	PASS
116	5580	18.49	8.00	26.49	445.656	29.4	PASS
140	5700	17.21	8.00	25.21	331.894	29.41	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	7.91	4.99	12.90	19.505	23.01	PASS
46	5230	10.67	4.99	15.66	36.825	23.01	PASS
54	5270	17.71	4.99	22.70	186.270	30	PASS
62	5310	7.62	4.99	12.61	18.245	30	PASS
102	5510	4.92	4.99	9.91	9.798	30	PASS
110	5550	17.77	4.99	22.76	188.862	30	PASS
134	5670	5.48	4.99	10.47	11.147	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	7.65	4.990	12.64	18.371	23.01	PASS
46	5230	10.68	4.990	15.67	36.910	23.01	PASS
54	5270	17.74	4.990	22.73	187.562	30	PASS
62	5310	7.61	4.990	12.60	18.203	30	PASS
102	5510	4.73	4.990	9.72	9.379	30	PASS
110	5550	17.85	4.990	22.84	192.373	30	PASS
134	5670	5.39	4.990	10.38	10.918	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.67	8.00	18.67	73.621	23.01	PASS
46	5230	13.70	8.00	21.70	147.911	23.01	PASS
54	5270	20.76	8.00	28.76	751.623	30	PASS
62	5310	10.63	8.00	18.63	72.946	30	PASS
102	5510	7.93	8.00	15.93	39.174	30	PASS
110	5550	21.01	8.00	29.01	796.159	30	PASS
134	5670	8.59	8.00	16.59	45.604	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.62	4.99	12.61	18.226	22.4	PASS
44	5220	7.59	4.99	12.58	18.100	22.41	PASS
48	5240	7.91	4.99	12.90	19.484	22.41	PASS
52	5260	14.49	4.99	19.48	88.652	29.4	PASS
60	5300	14.32	4.99	19.31	85.249	29.41	PASS
64	5320	10.71	4.99	15.70	37.127	29.41	PASS
100	5500	14.05	4.99	19.04	80.110	29.4	PASS
116	5580	15.42	4.99	20.41	109.822	29.41	PASS
140	5700	13.99	4.99	18.98	79.011	29.41	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.74	4.990	12.73	18.736	23.01	PASS
44	5220	7.73	4.990	12.72	18.693	23.01	PASS
48	5240	8.11	4.990	13.10	20.403	23.01	PASS
52	5260	14.80	4.990	19.79	95.211	30	PASS
60	5300	14.63	4.990	19.62	91.556	30	PASS
64	5320	10.88	4.990	15.87	38.609	30	PASS
100	5500	14.87	4.990	19.86	96.758	30	PASS
116	5580	15.00	4.990	19.99	99.698	30	PASS
140	5700	14.08	4.990	19.07	80.666	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.81	8.00	18.81	76.033	22.4	PASS
44	5220	10.74	8.00	18.74	74.817	22.4	PASS
48	5240	11.16	8.00	19.16	82.414	22.41	PASS
52	5260	17.83	8.00	25.83	382.825	29.4	PASS
60	5300	17.64	8.00	25.64	366.438	29.41	PASS
64	5320	14.13	8.00	22.13	163.305	29.41	PASS
100	5500	18.08	8.00	26.08	405.509	29.4	PASS
116	5580	18.47	8.00	26.47	443.609	29.4	PASS
140	5700	17.15	8.00	25.15	327.341	29.41	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	7.58	4.99	12.57	18.062	23.01	PASS
46	5230	10.46	4.99	15.45	35.056	23.01	PASS
54	5270	17.70	4.99	22.69	185.677	30	PASS
62	5310	7.46	4.99	12.45	17.569	30	PASS
102	5510	4.79	4.99	9.78	9.501	30	PASS
110	5550	17.74	4.99	22.73	187.395	30	PASS
134	5670	5.25	4.99	10.24	10.562	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	7.60	4.990	12.59	18.145	23.01	PASS
46	5230	10.46	4.990	15.45	35.056	23.01	PASS
54	5270	17.67	4.990	22.66	184.399	30	PASS
62	5310	7.45	4.990	12.44	17.529	30	PASS
102	5510	4.66	4.990	9.65	9.221	30	PASS
110	5550	17.80	4.990	22.79	190.002	30	PASS
134	5670	5.30	4.990	10.29	10.685	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.66	8.00	18.66	73.451	23.01	PASS
46	5230	13.47	8.00	21.47	140.281	23.01	PASS
54	5270	20.72	8.00	28.72	744.732	30	PASS
62	5310	10.46	8.00	18.46	70.146	30	PASS
102	5510	7.80	8.00	15.80	38.019	30	PASS
110	5550	20.97	8.00	28.97	788.860	30	PASS
134	5670	8.31	8.00	16.31	42.756	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	4.52	4.99	9.51	8.937	23.01	PASS
58	5290	6.03	4.99	11.02	12.654	30	PASS
106	5530	4.00	4.99	8.99	7.929	17	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	4.51	4.990	9.50	8.917	23.01	PASS
58	5290	6.01	4.990	11.00	12.596	30	PASS
106	5530	4.03	4.990	9.02	7.984	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	7.55	8.00	15.55	35.892	23.01	PASS
58	5290	9.06	8.00	17.06	50.816	30	PASS
106	5530	7.04	8.00	15.04	31.915	30	PASS

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9 MAXIMUM POWER SPECTRAL DENSITY

9.1 Standard Applicable

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 Point	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

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 directional gain of the antenna.

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		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.

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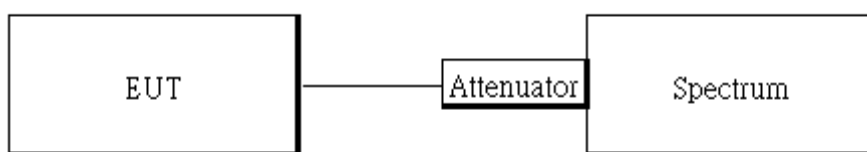
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9.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

Note: N.C.R refers to No calibration required

9.1 Test Set-up



9.2 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)
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.
- User the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all default test channel (low, middle, and high) was complete.
- 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.
Cable Loss Offset: 11.84

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.

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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.

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

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

$g_{j,k}$ = $10 \log G_k$ 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 in MIMO mode, therefore the power density limit attenuation has been applied in the test results.

9.3 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-2.25	-1.65	0.22	1.29		9.00 dBm/MHz	-7.71
5220	-1.77	-1.90	0.22	1.40		9.00 dBm/MHz	-7.60
5240	-1.23	-1.26	0.22	1.98		9.00 dBm/MHz	-7.02
5260	4.97	5.25	0.22	8.34		9.00 dBm/MHz	-0.66
5300	4.45	4.91	0.22	7.92		9.00 dBm/MHz	-1.08
5320	4.72	4.59	0.22	7.89		9.00 dBm/MHz	-1.11
5500	4.85	5.00	0.22	8.16		9.00 dBm/MHz	-0.84
5580	4.81	5.07	0.22	8.17		9.00 dBm/MHz	-0.83
5700	5.02	5.15	0.22	8.32		9.00 dBm/MHz	-0.68
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	5.09	4.90	0.22	2.22	10.45	28.02 dBm/500kHz	-17.57
5785	5.39	5.16	0.22	2.22	10.72	28.02 dBm/500kHz	-17.30
5825	4.40	4.53	0.22	2.22	9.92	28.02 dBm/500kHz	-18.10

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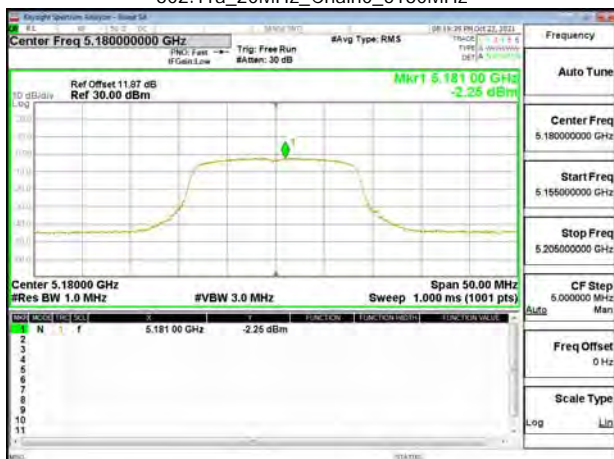
POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-2.27	-2.04	0.23	1.09		9.00 dBm/MHz	-7.91
5220	-1.87	-1.90	0.23	1.36		9.00 dBm/MHz	-7.64
5240	-1.67	-1.40	0.23	1.71		9.00 dBm/MHz	-7.29
5260	5.42	5.23	0.23	8.57		9.00 dBm/MHz	-0.43
5300	4.75	4.85	0.23	8.04		9.00 dBm/MHz	-0.96
5320	0.91	0.94	0.23	4.17		9.00 dBm/MHz	-4.83
5500	4.95	5.22	0.23	8.32		9.00 dBm/MHz	-0.68
5580	5.10	5.08	0.23	8.33		9.00 dBm/MHz	-0.67
5700	4.43	4.45	0.23	7.68		9.00 dBm/MHz	-1.32
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5745	5.90	5.44	0.23	2.22	11.14	28.02 dBm/500kHz	-16.88
5785	4.50	4.89	0.23	2.22	10.16	28.02 dBm/500kHz	-17.86
5825	3.48	3.90	0.23	2.22	9.15	28.02 dBm/500kHz	-18.87
POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-5.14	-4.76	0.46	-1.48		9.00 dBm/MHz	-10.48
5230	-1.34	-2.44	0.46	1.61		9.00 dBm/MHz	-7.39
5270	5.07	4.91	0.46	8.46		9.00 dBm/MHz	-0.54
5310	-5.89	-4.83	0.46	-1.86		9.00 dBm/MHz	-10.86
5510	-8.92	-8.68	0.46	-5.33		9.00 dBm/MHz	-14.33
5550	4.57	5.21	0.46	8.38		9.00 dBm/MHz	-0.62
5670	-7.64	-8.10	0.46	-4.39		9.00 dBm/MHz	-13.39
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5755	1.62	2.31	0.46	2.22	7.67	28.02 dBm/500kHz	-20.35
5795	2.08	1.29	0.46	2.22	7.39	28.02 dBm/500kHz	-20.63
POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-11.74	-11.25	0.89	-7.59		9.00 dBm/MHz	-16.59
5290	-10.65	-10.43	0.89	-6.64		9.00 dBm/MHz	-15.64
5530	-12.47	-12.32	0.89	-8.49		9.00 dBm/MHz	-17.49
5610	-0.80	-1.12	0.89	2.95		9.00 dBm/MHz	-6.05
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5775	-4.53	-4.93	0.89	2.22	1.40	28.02 dBm/500kHz	-26.62

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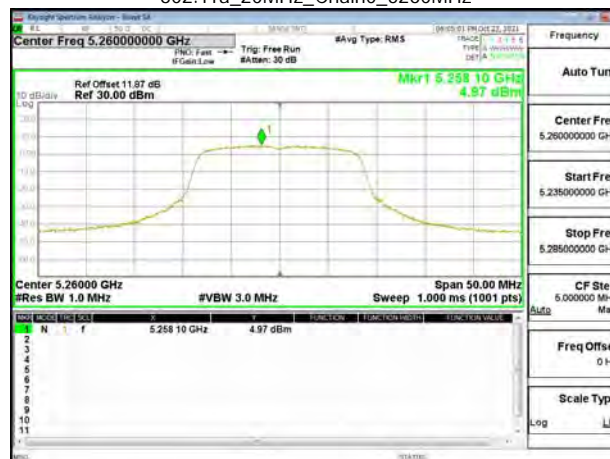
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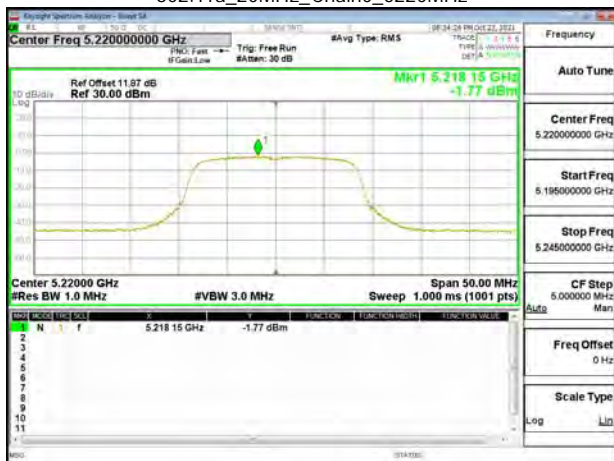
802.11a_20MHz_Chain0_5180MHz



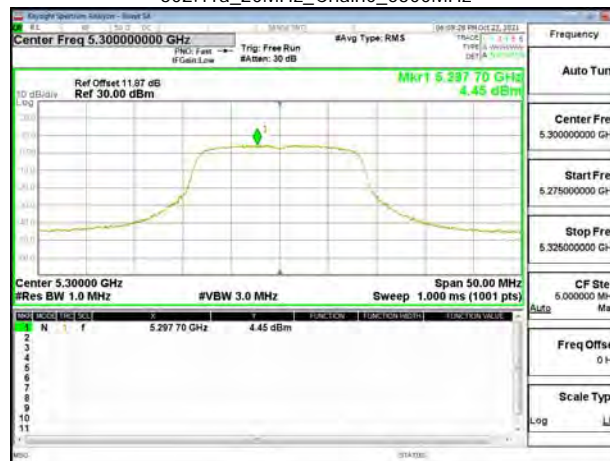
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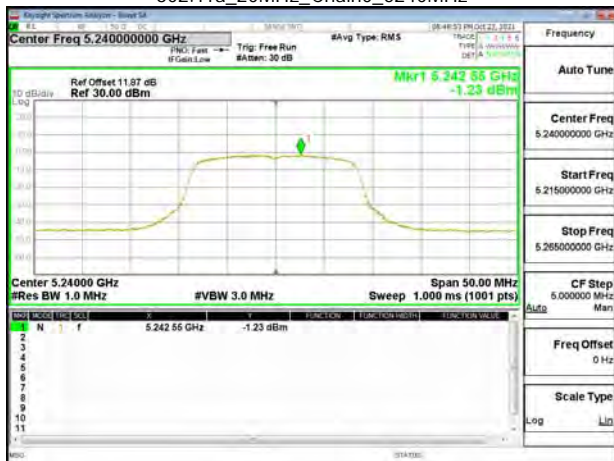
802.11a_20MHz_Chain0_5220MHz



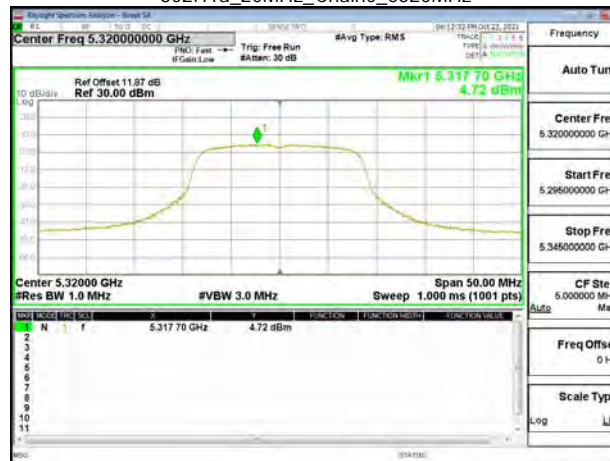
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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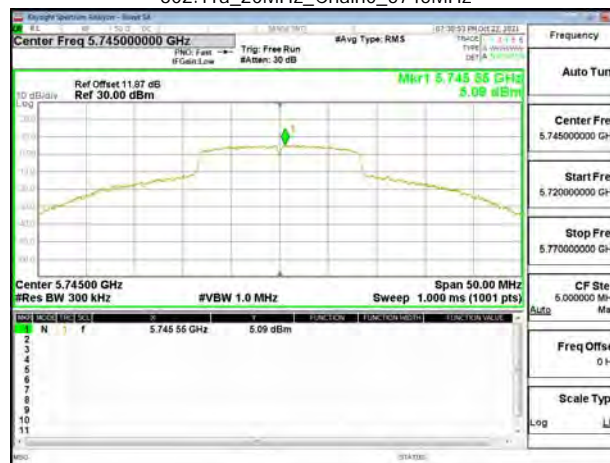
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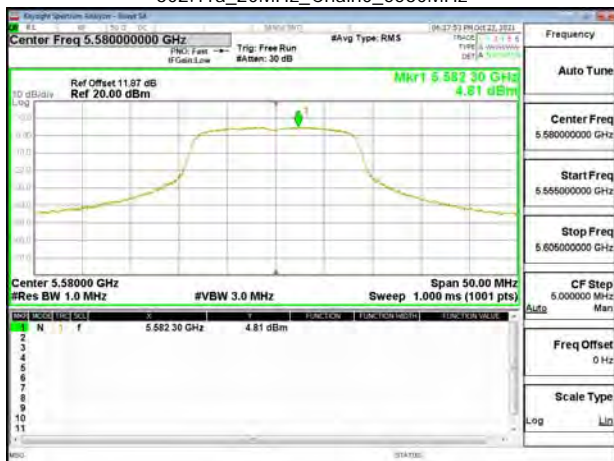
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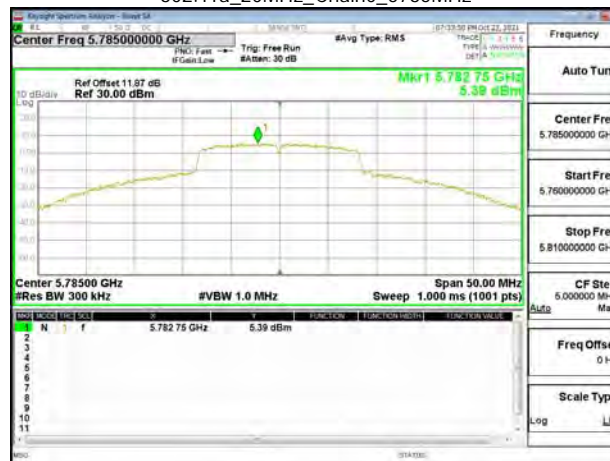
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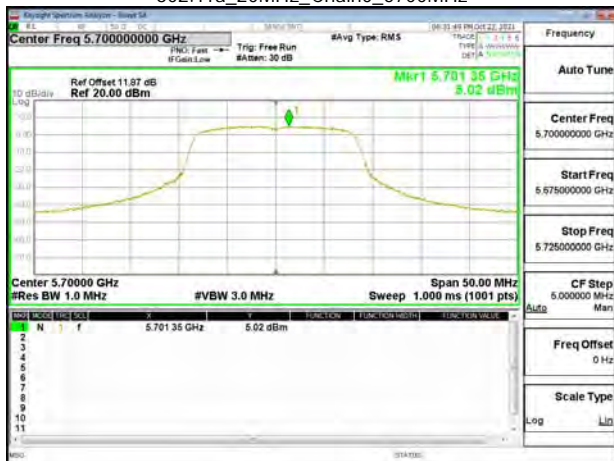
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5825MHz

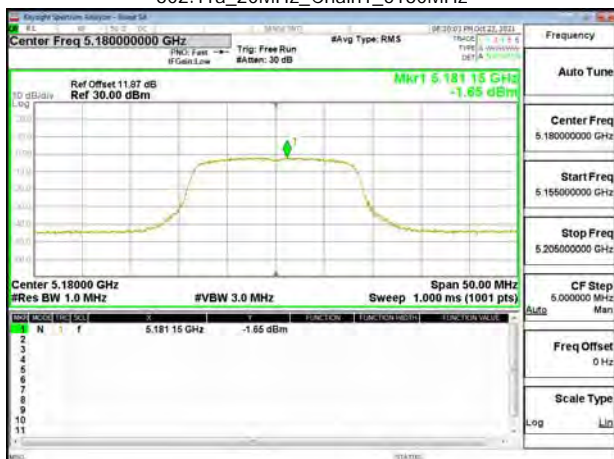


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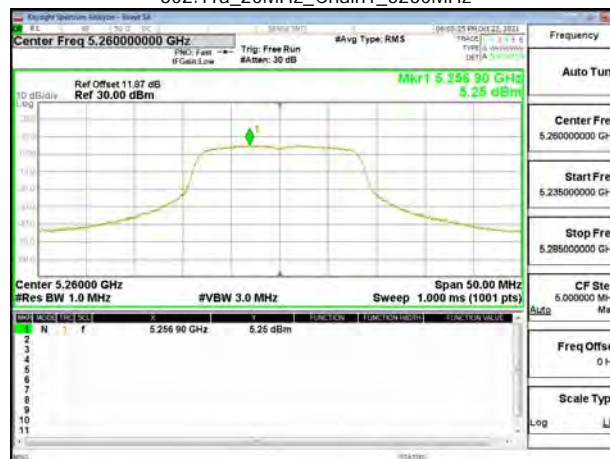
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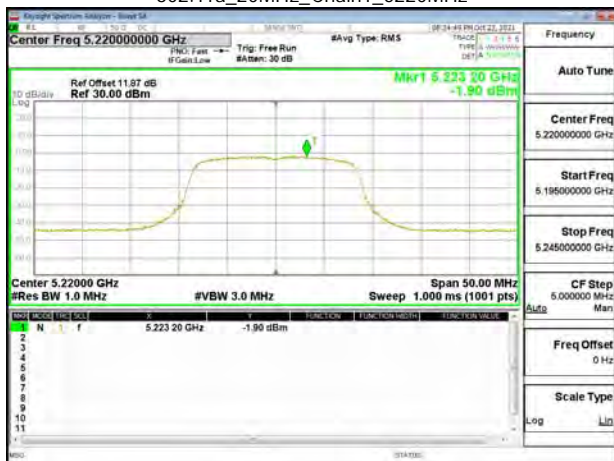
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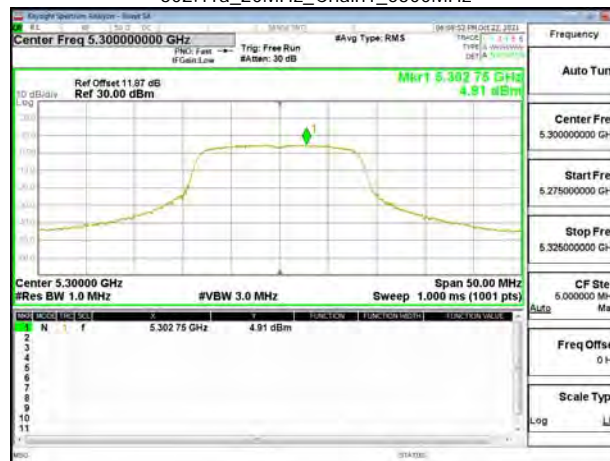
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802.11a_20MHz_Chain1_5220MHz



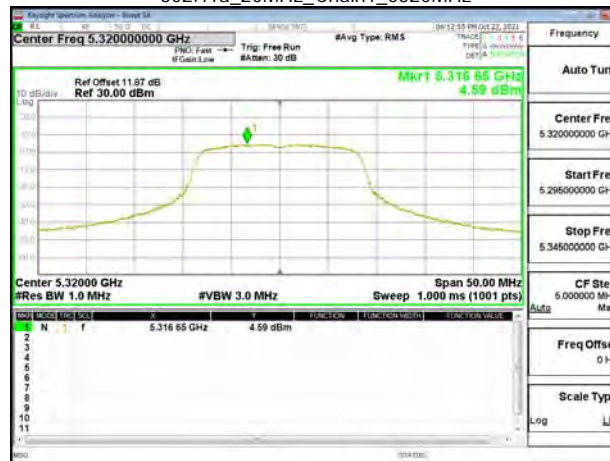
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802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5320MHz

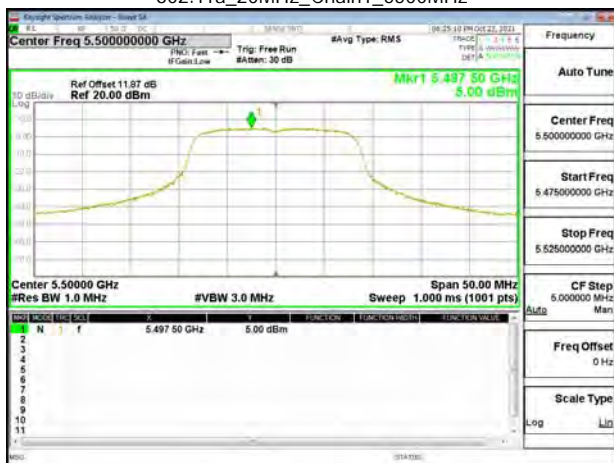


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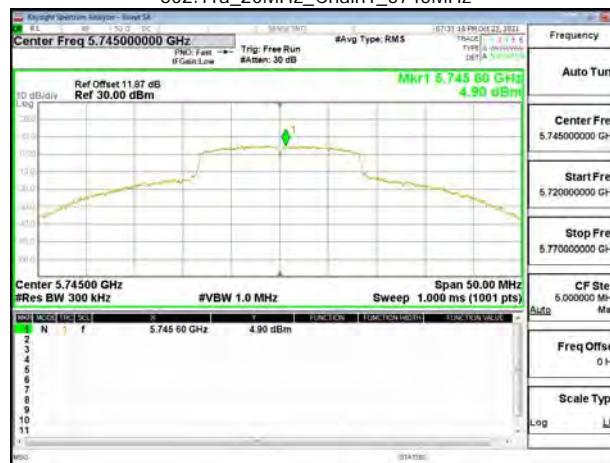
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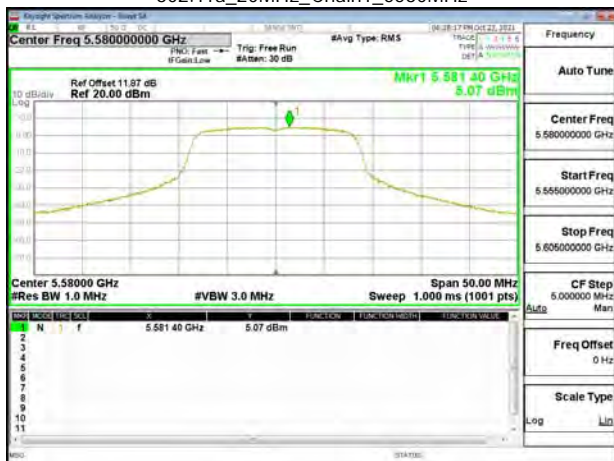
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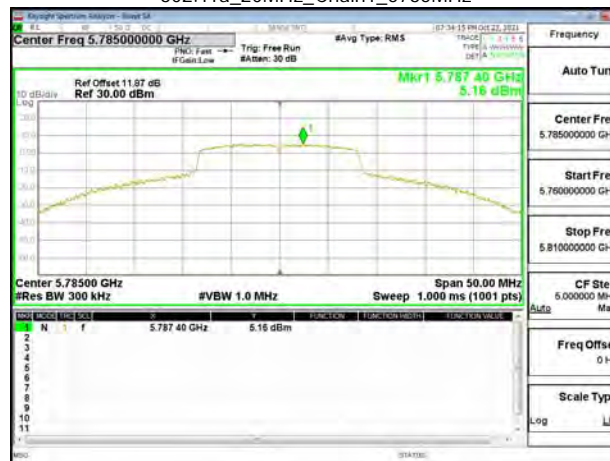
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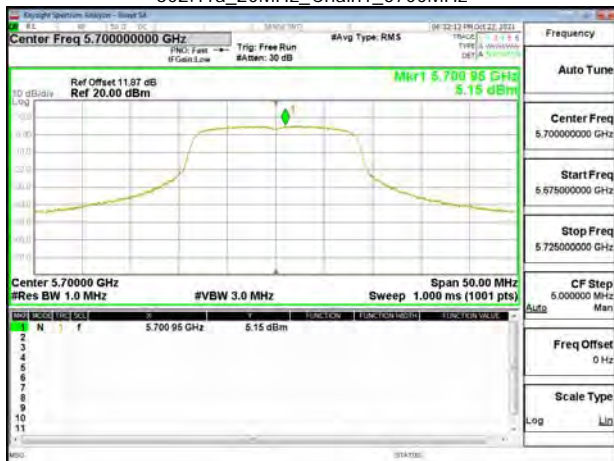
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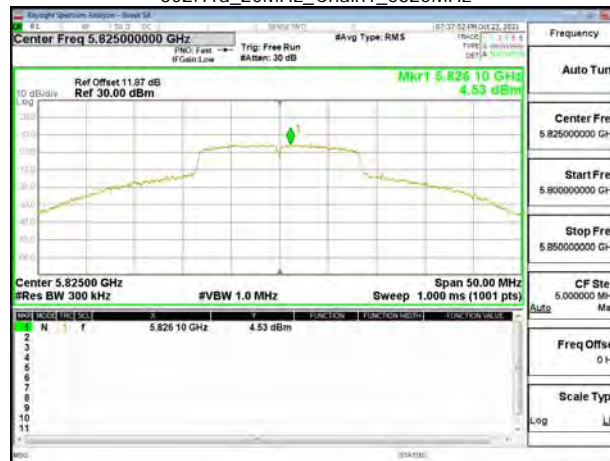
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802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5825MHz

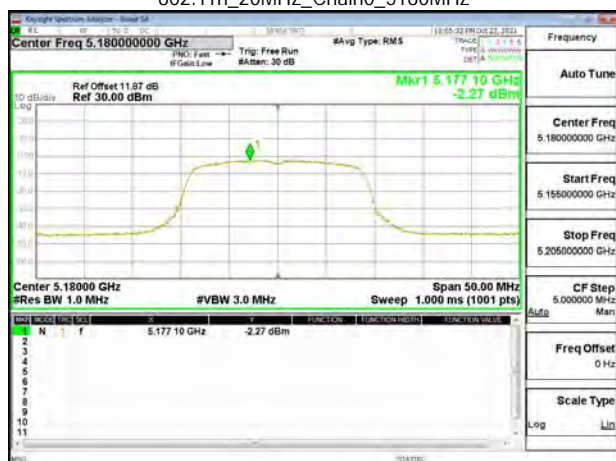


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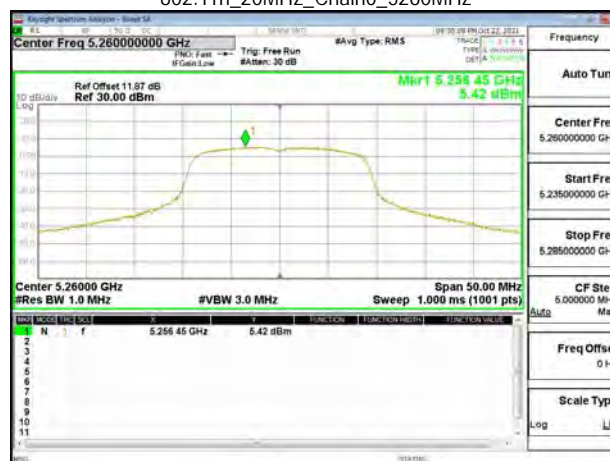
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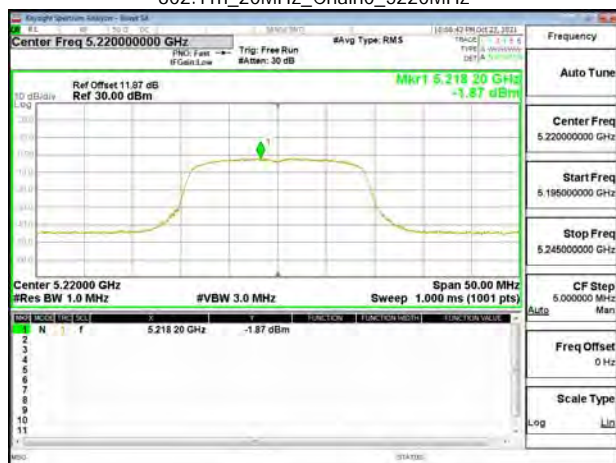
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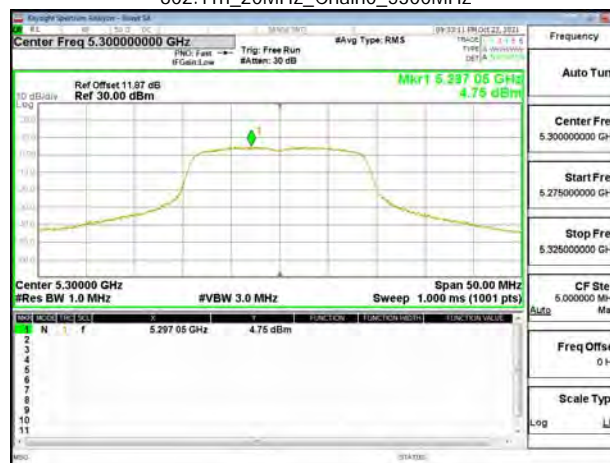
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802.11n_20MHz_Chain0_5220MHz



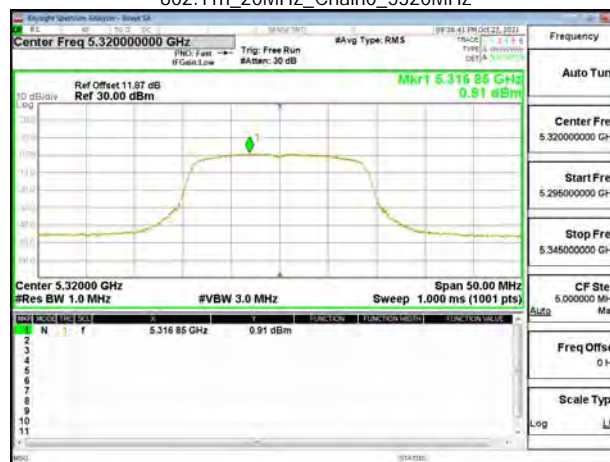
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802.11n_20MHz_Chain0_5240MHz



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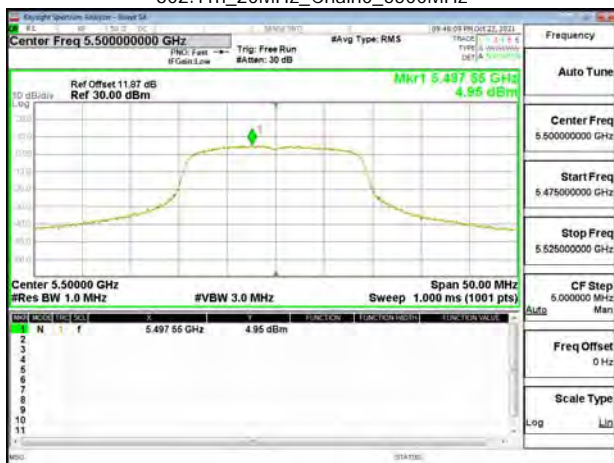


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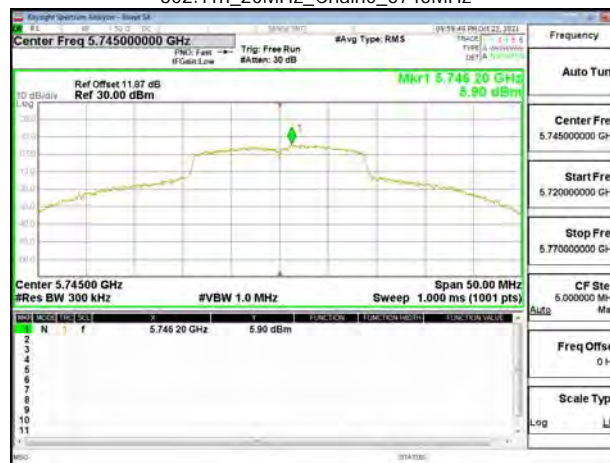
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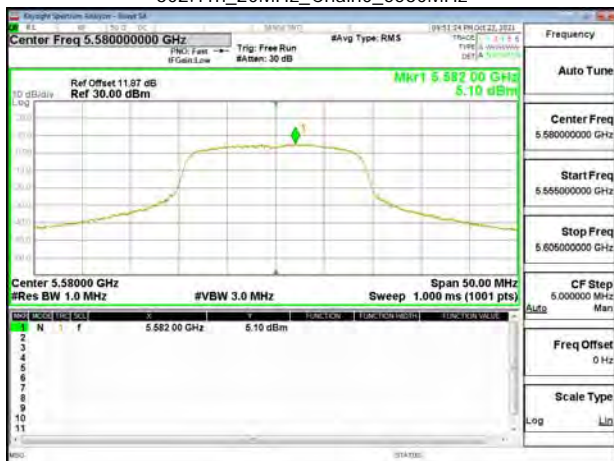
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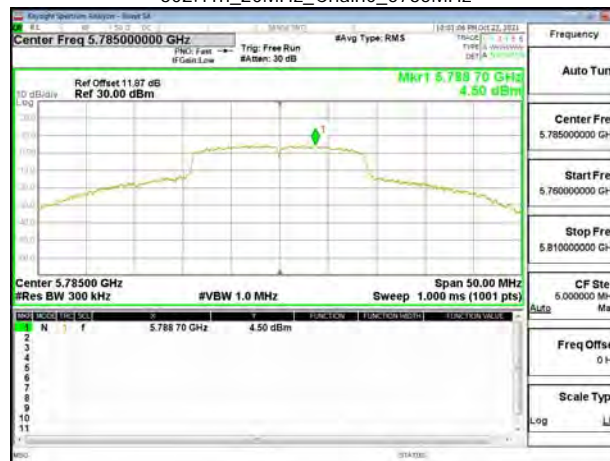
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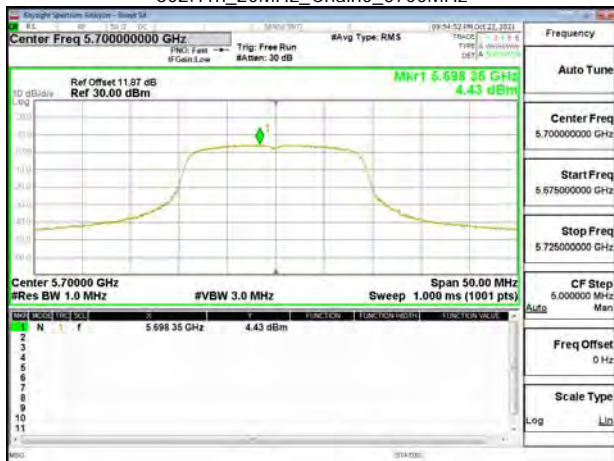
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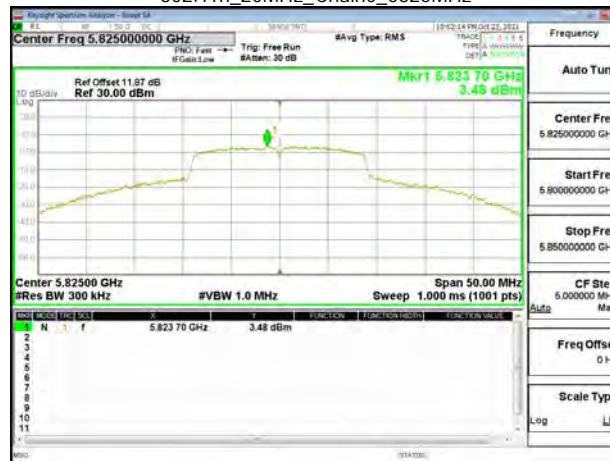
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802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5825MHz

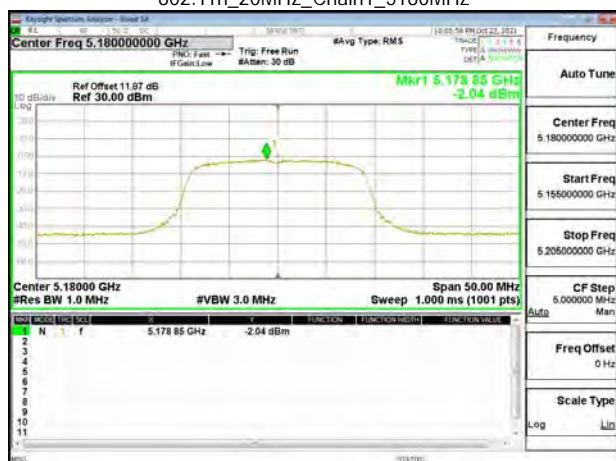


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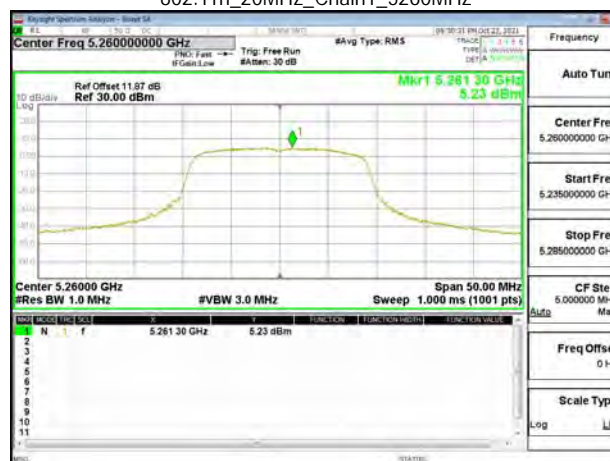
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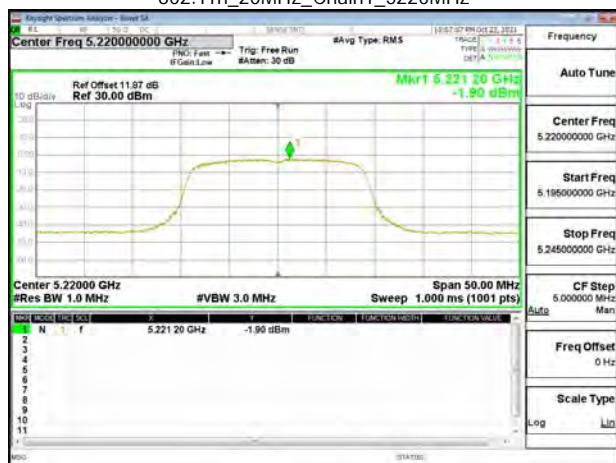
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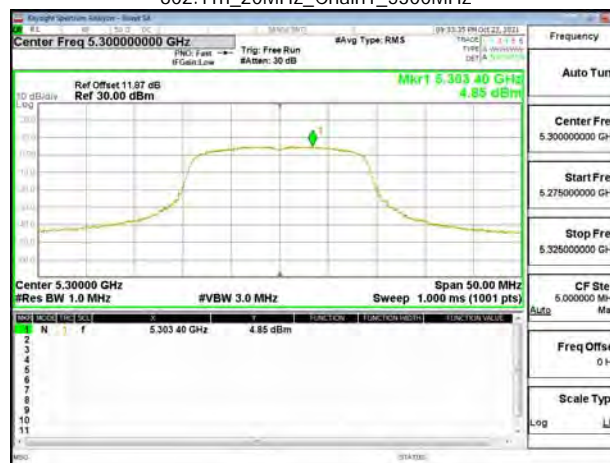
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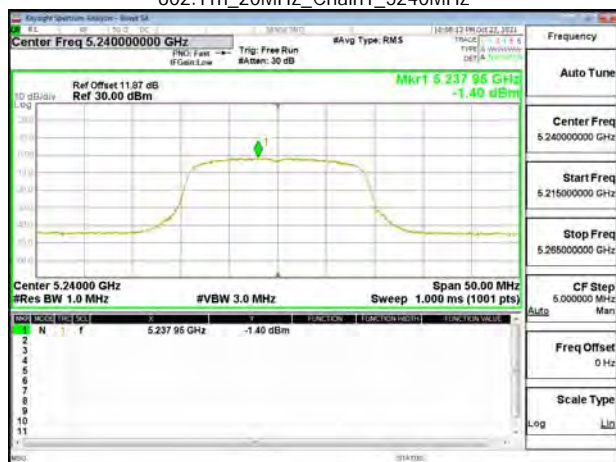
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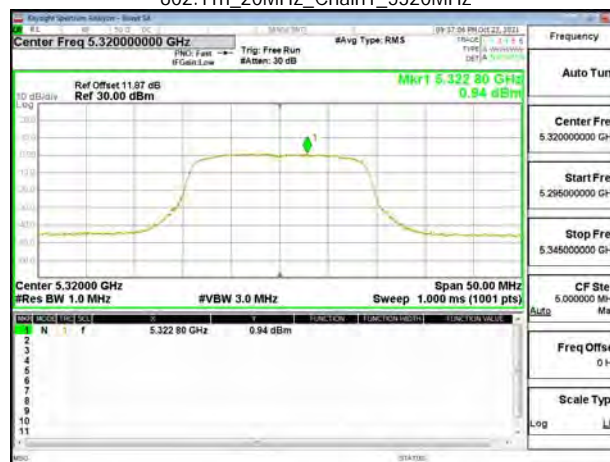
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz

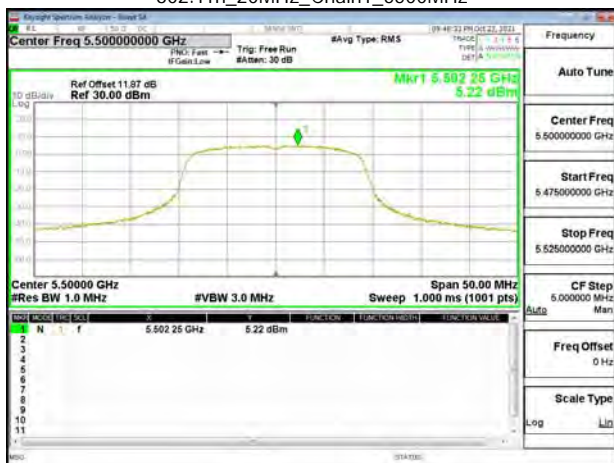


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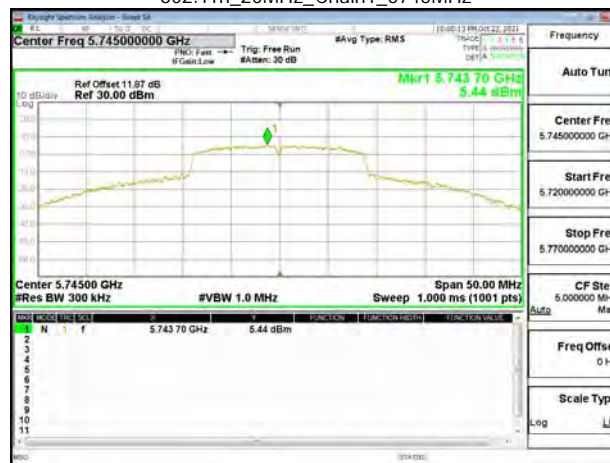
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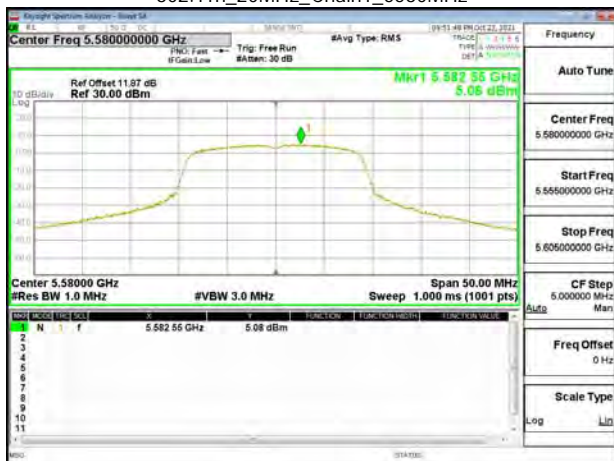
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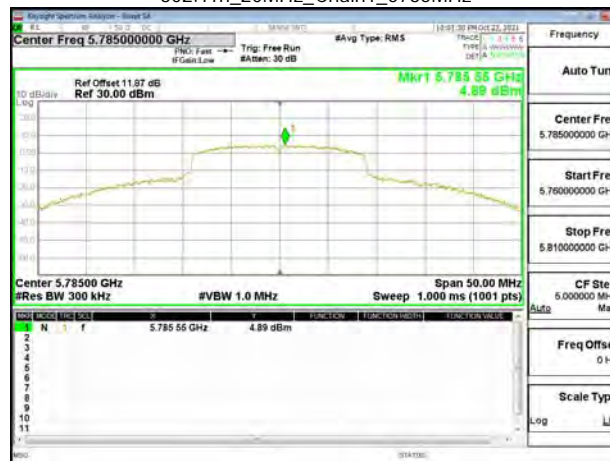
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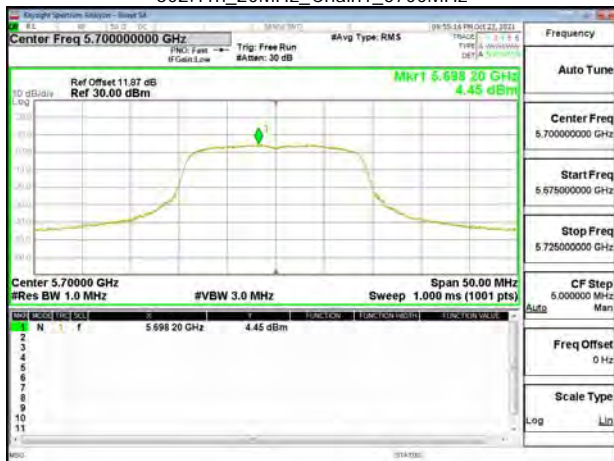
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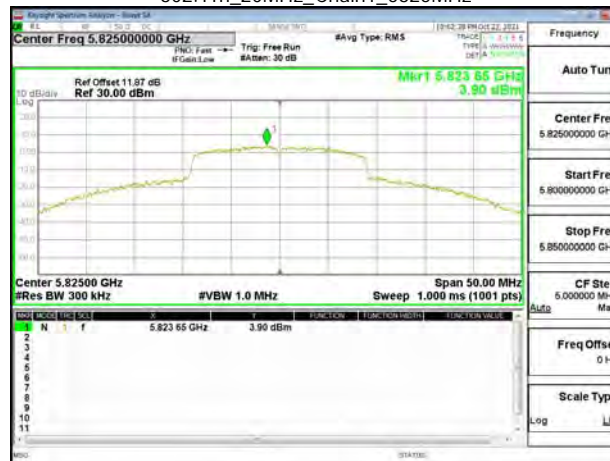
802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5825MHz

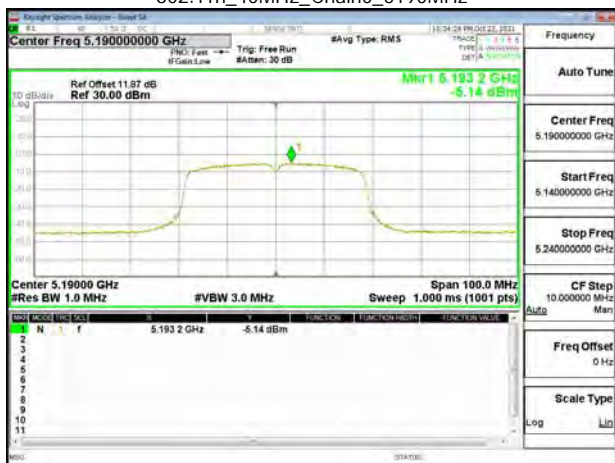


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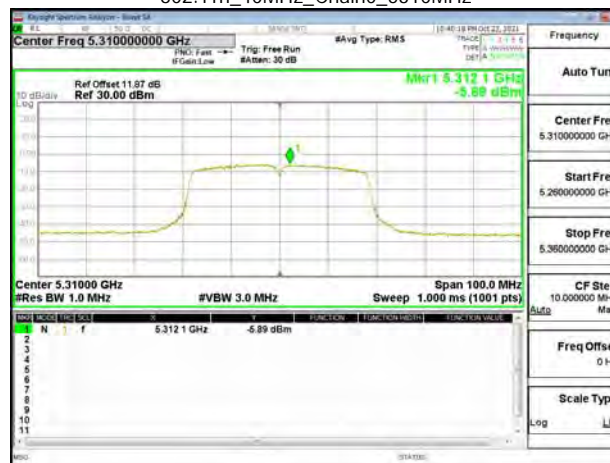
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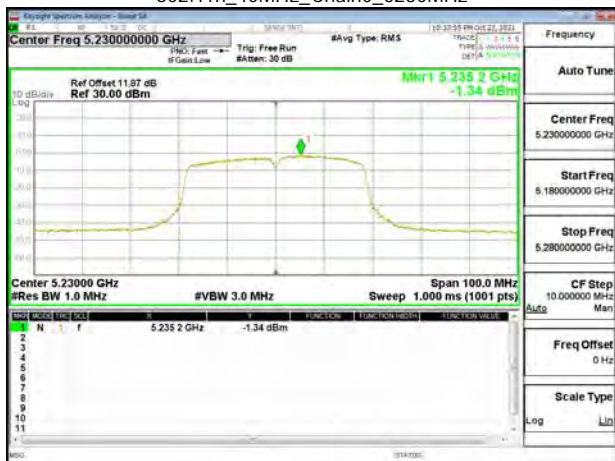
802.11n_40MHz_Chain0_5190MHz



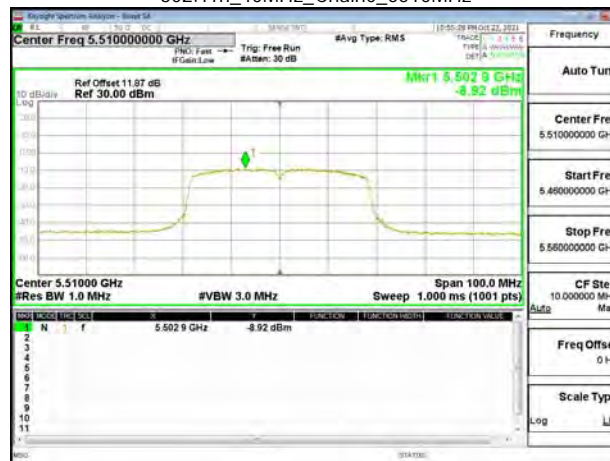
802.11n_40MHz_Chain0_5310MHz



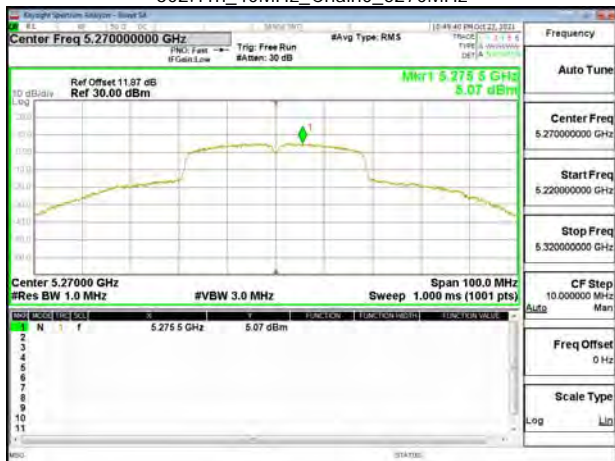
802.11n_40MHz_Chain0_5230MHz



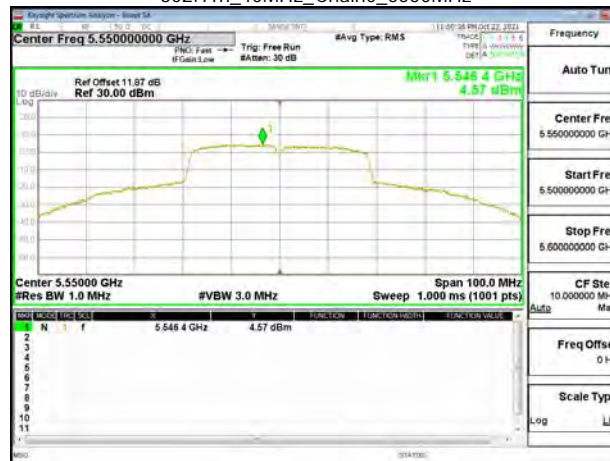
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz

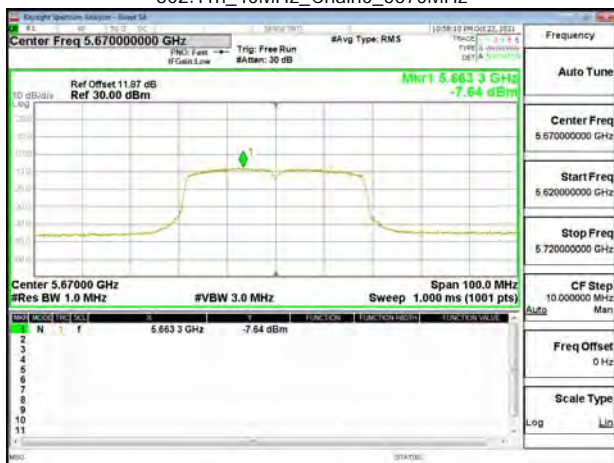


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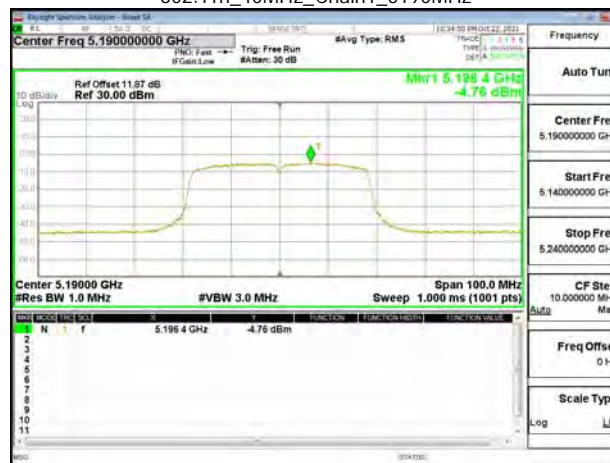
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802.11n_40MHz_Chain0_5670MHz



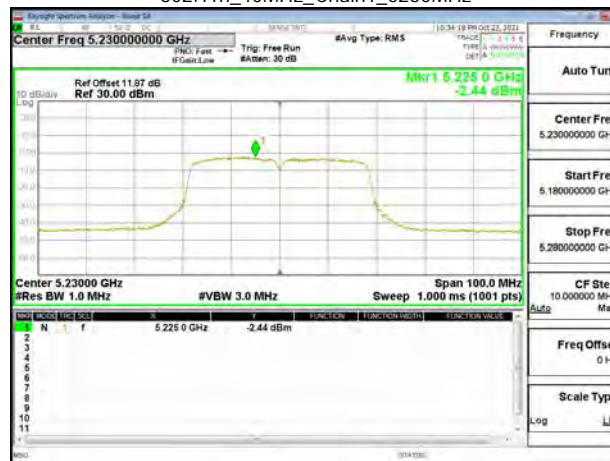
802.11n_40MHz_Chain1_5190MHz



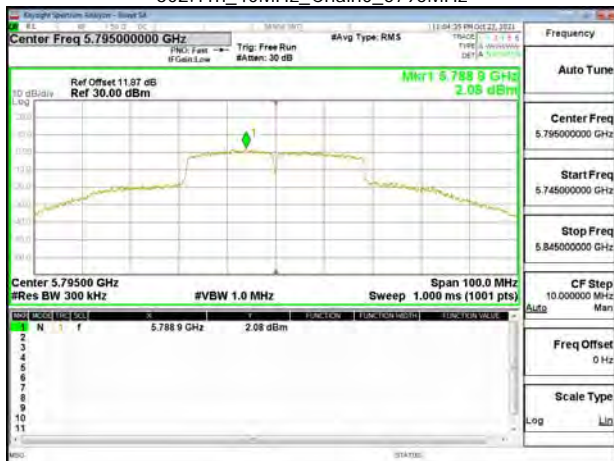
802.11n_40MHz_Chain0_5755MHz



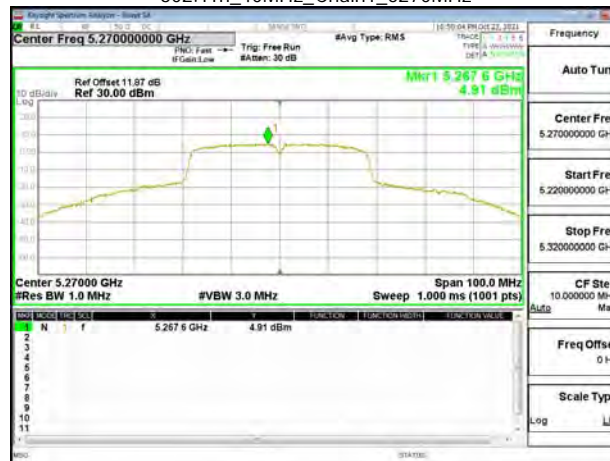
802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz

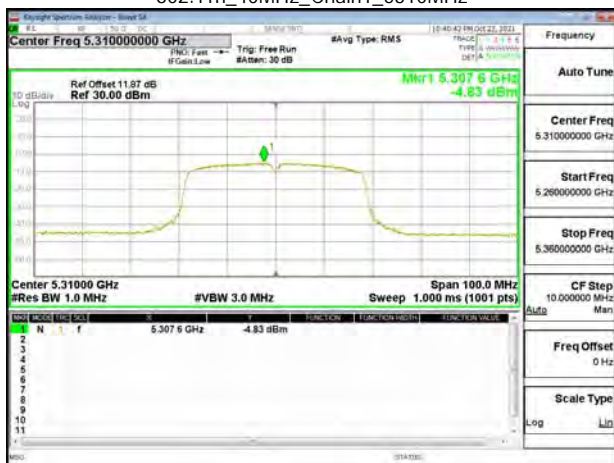


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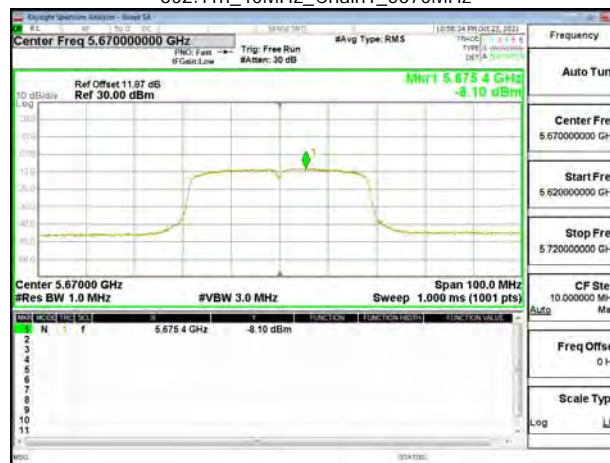
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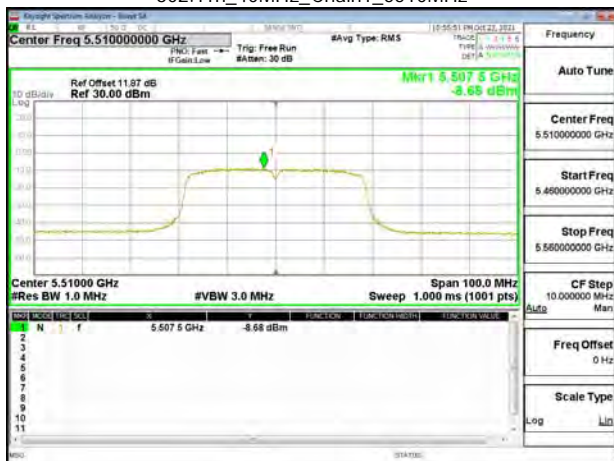
802.11n_40MHz_Chain1_5310MHz



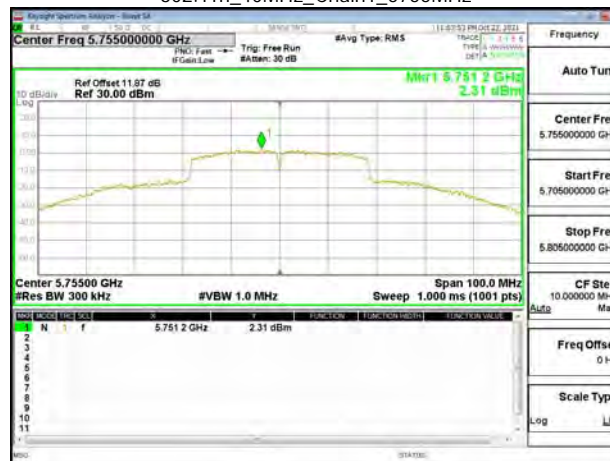
802.11n_40MHz_Chain1_5670MHz



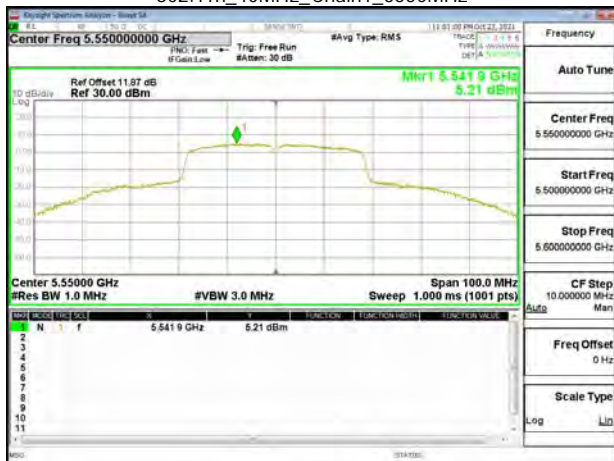
802.11n_40MHz_Chain1_5510MHz



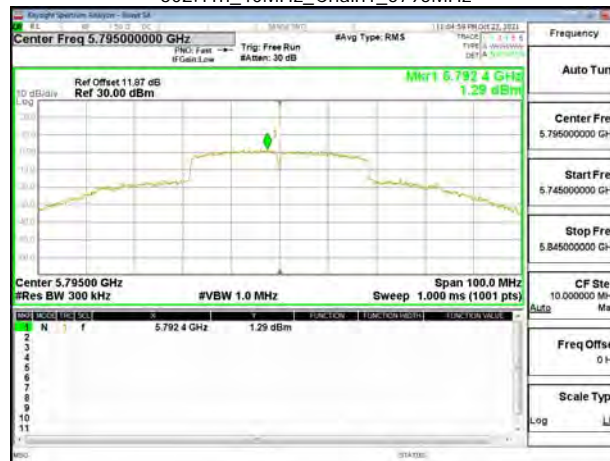
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5795MHz



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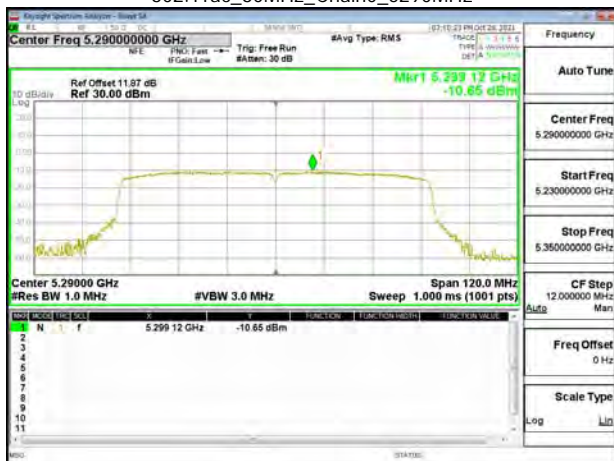
802.11ac_80MHz_Chain0_5210MHz



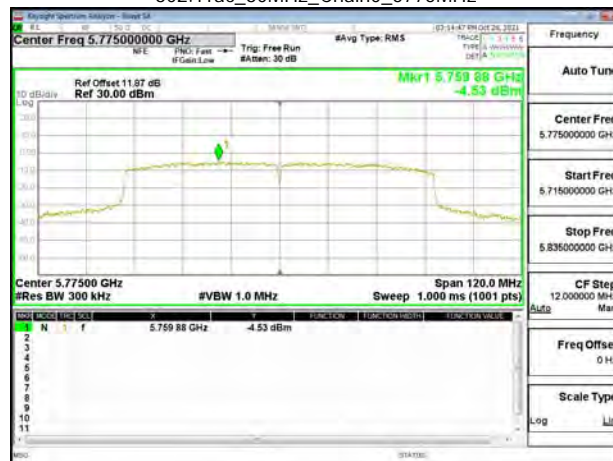
802.11ac_80MHz_Chain0_5610MHz



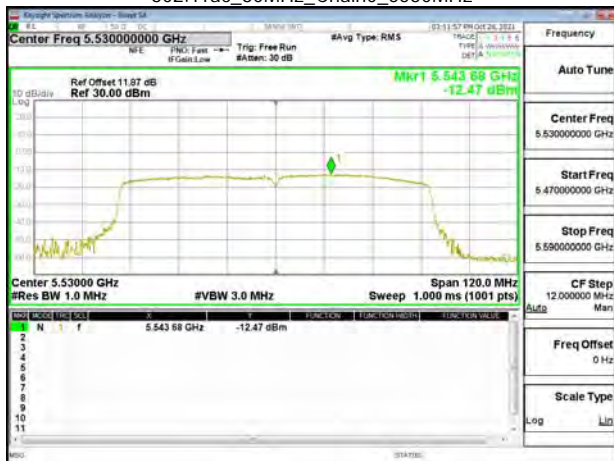
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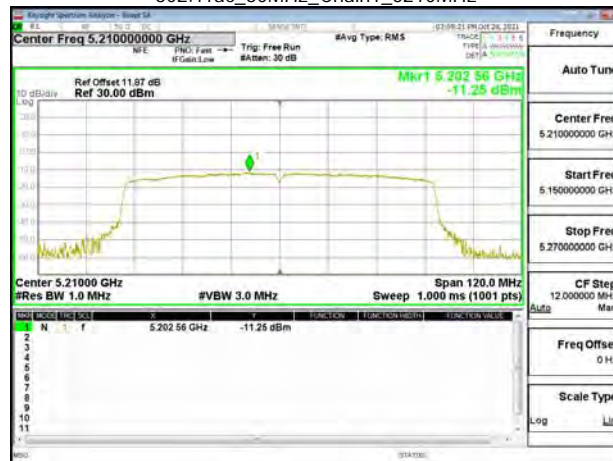
802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain1_5210MHz

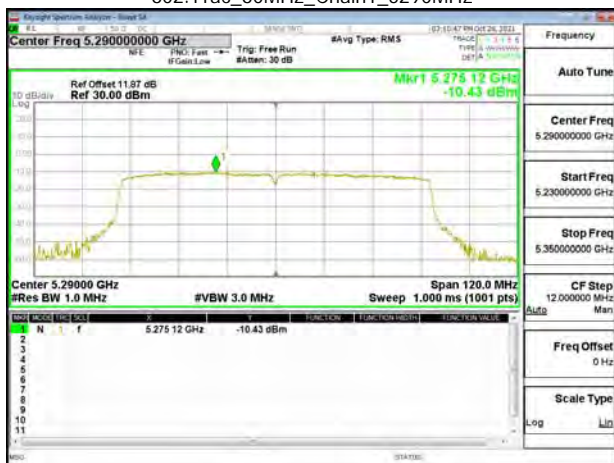


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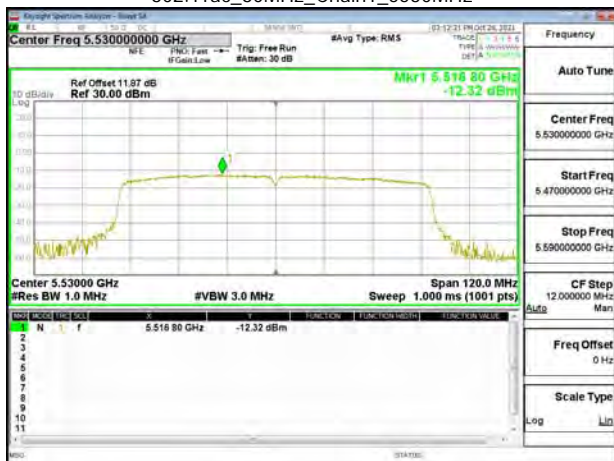
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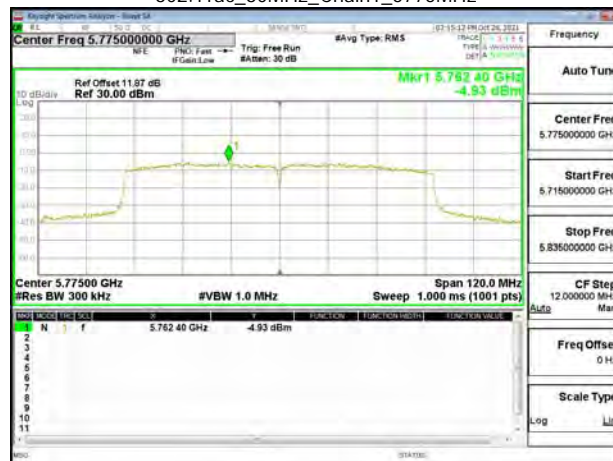
802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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10 UNDESIRABLE RADIATED EMISSION MEASUREMENT

10.1 Standard Applicable

10.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2 (dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
<p>*1 beyond 75 MHz or more above of the bandedge.</p> <p>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.</p> <p>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.</p> <p>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>		

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

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10.1.2 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:

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

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10.2 Measurement Equipment Used

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2021	09/26/2022
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/20/2021	08/19/2022
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	12/16/2020	12/15/2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	12/16/2020	12/15/2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

Note: N.C.R refers to No calibration required

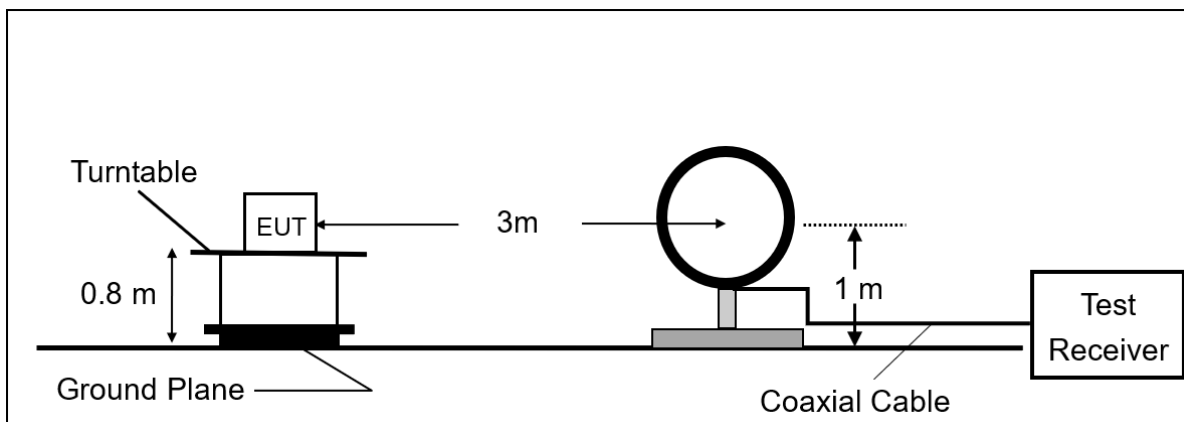
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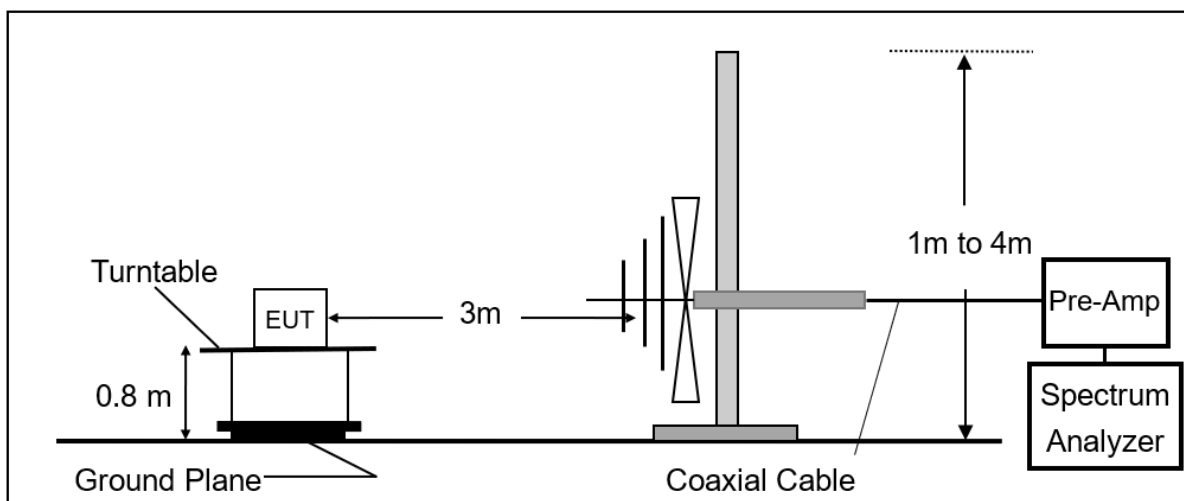
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10.3 Test SET-UP

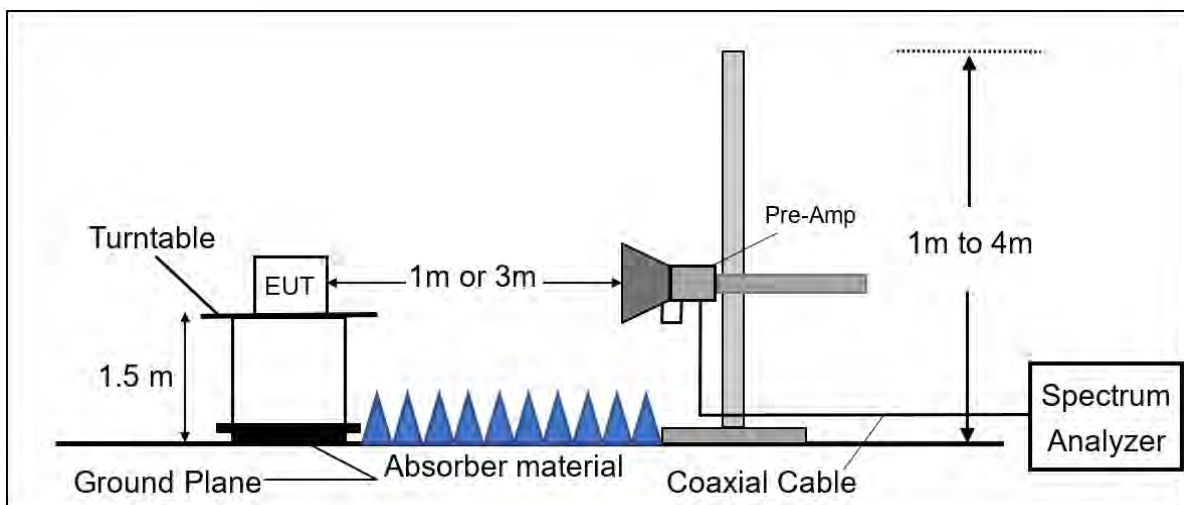
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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10.4 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 $\geq 1/T$ (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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10.5 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)

10.6 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-scanned 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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10.7 Radiated Spurious Emission Measurement Result

10.7.1 Spurious Emission

Report Number :ER-2021-90006

Operation Mode :802.11a

Test Frequency :5220 MHz

Test Mode :Tx CH Mid

EUT Pol :E2 Plane

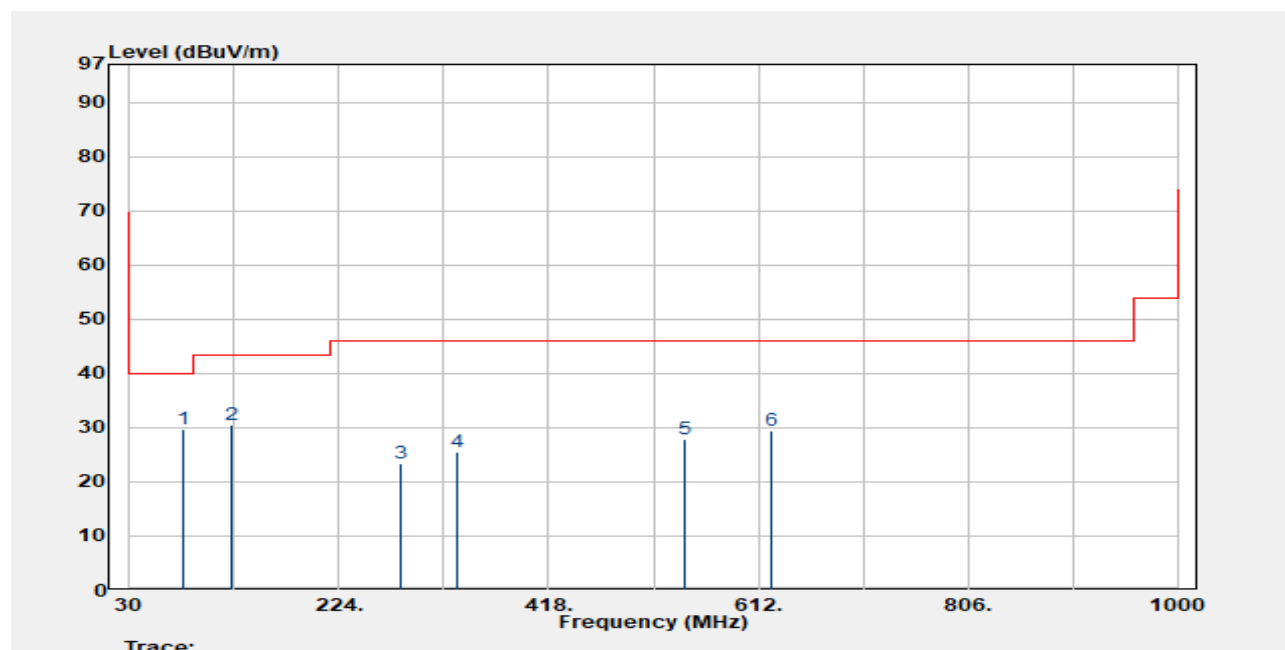
Test Site :SAC 3

Test Date :2021-10-22

Temp./Humi. :25.2/62

Antenna Pol. :Vertical

Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
80.440	Peak	41.88	-12.15	29.73	40.00	-10.27
125.060	Peak	39.68	-9.19	30.49	43.50	-13.01
280.260	Peak	29.82	-6.53	23.29	46.00	-22.71
333.610	Peak	30.46	-5.07	25.39	46.00	-20.61
543.130	Peak	29.87	-2.12	27.75	46.00	-18.25
624.610	Peak	30.10	-0.57	29.53	46.00	-16.47

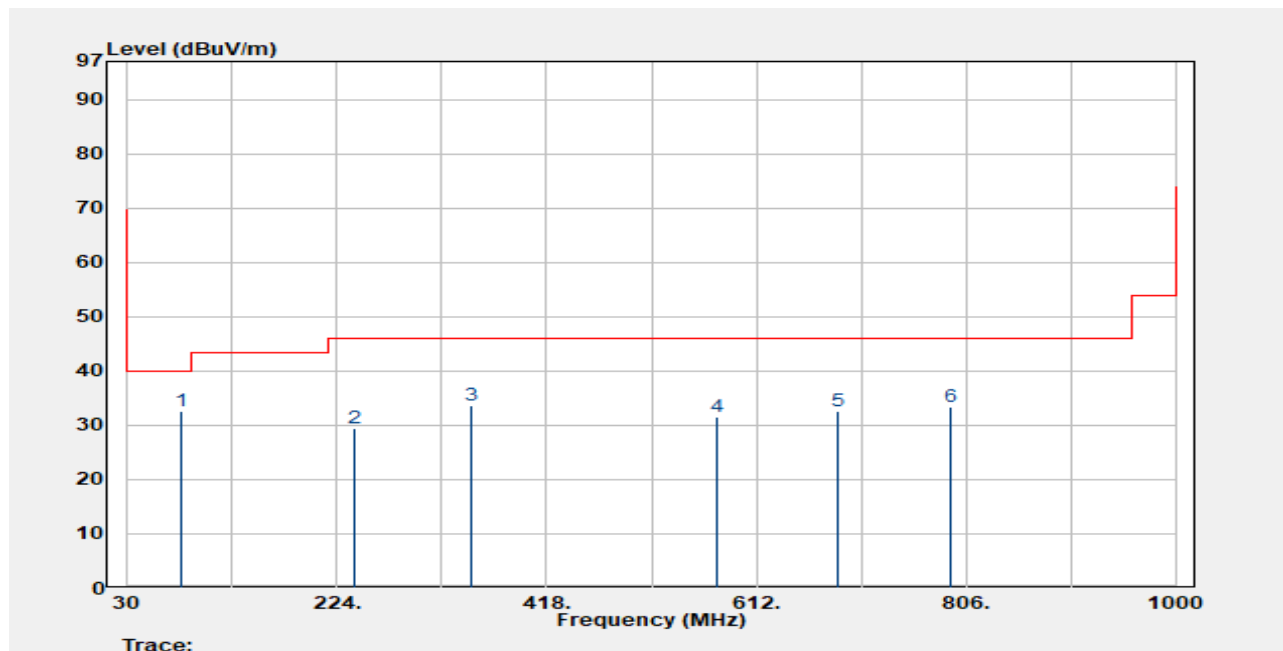
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Report Number :ER-2021-90006
Operation Mode :802.11a
Test Frequency :5220 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	44.78	-12.15	32.63	40.00	-7.37
239.520	Peak	37.83	-8.26	29.56	46.00	-16.44
348.160	Peak	38.61	-4.97	33.64	46.00	-12.36
576.110	Peak	31.95	-0.42	31.53	46.00	-14.47
686.690	Peak	31.31	1.38	32.69	46.00	-13.31
792.420	Peak	30.82	2.54	33.36	46.00	-12.64

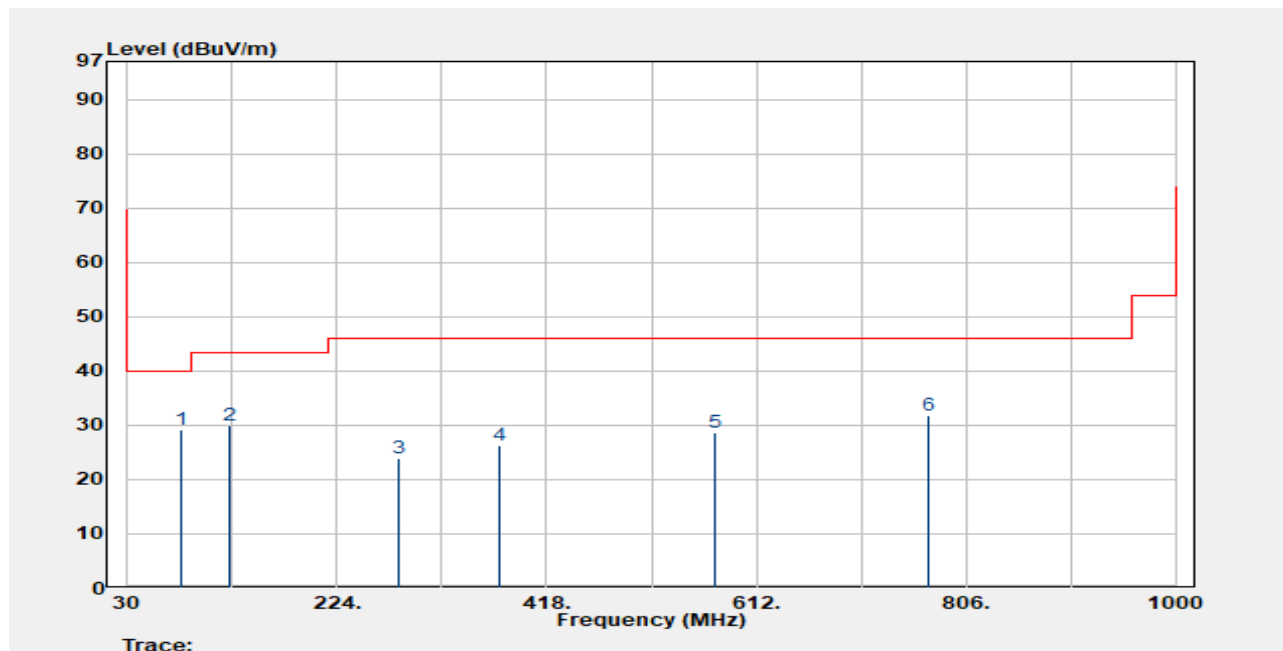
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Report Number :ER-2021-90006
Operation Mode :802.11a
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Vertical
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	41.27	-12.15	29.11	40.00	-10.89
125.060	Peak	39.05	-9.19	29.86	43.50	-13.64
280.260	Peak	30.38	-6.53	23.85	46.00	-22.15
374.350	Peak	30.90	-4.67	26.23	46.00	-19.77
573.200	Peak	29.28	-0.56	28.73	46.00	-17.27
771.080	Peak	29.61	2.12	31.73	46.00	-14.27

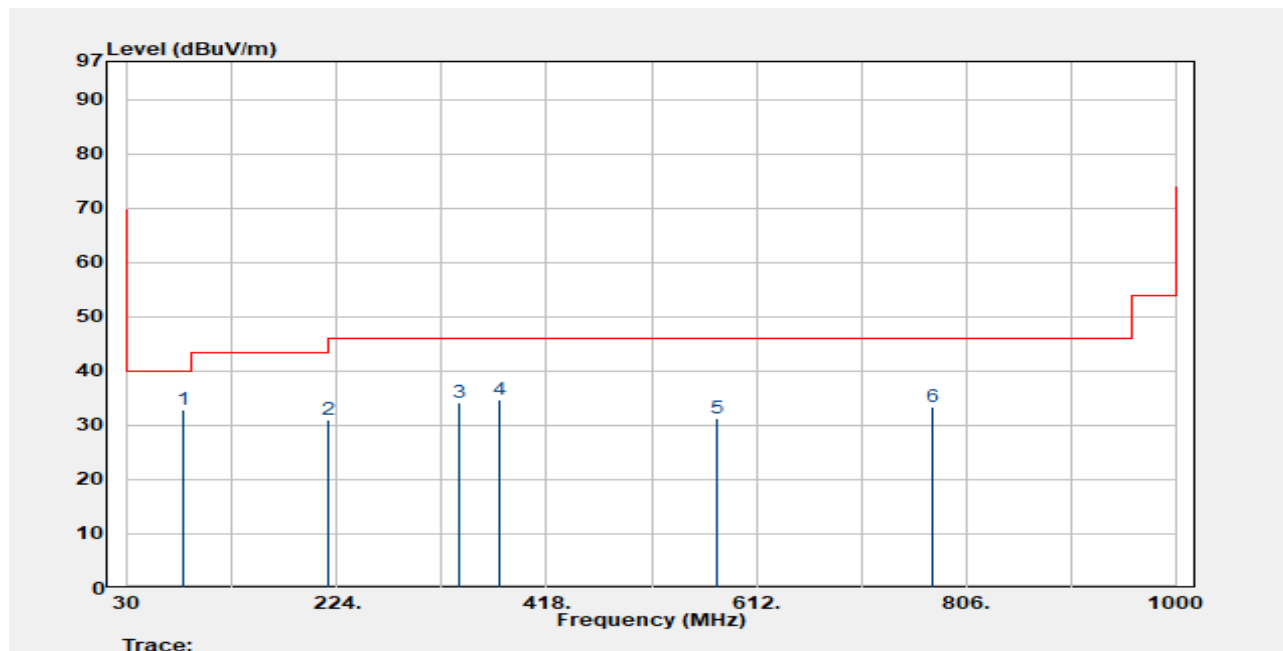
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Report Number :ER-2021-90006
Operation Mode :802.11a
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
81.410	Peak	45.24	-12.42	32.83	40.00	-7.17
216.240	Peak	40.33	-9.29	31.04	46.00	-14.96
336.520	Peak	39.19	-5.00	34.19	46.00	-11.81
374.350	Peak	39.45	-4.67	34.78	46.00	-11.22
576.110	Peak	31.64	-0.42	31.22	46.00	-14.78
775.930	Peak	31.36	2.13	33.49	46.00	-12.51

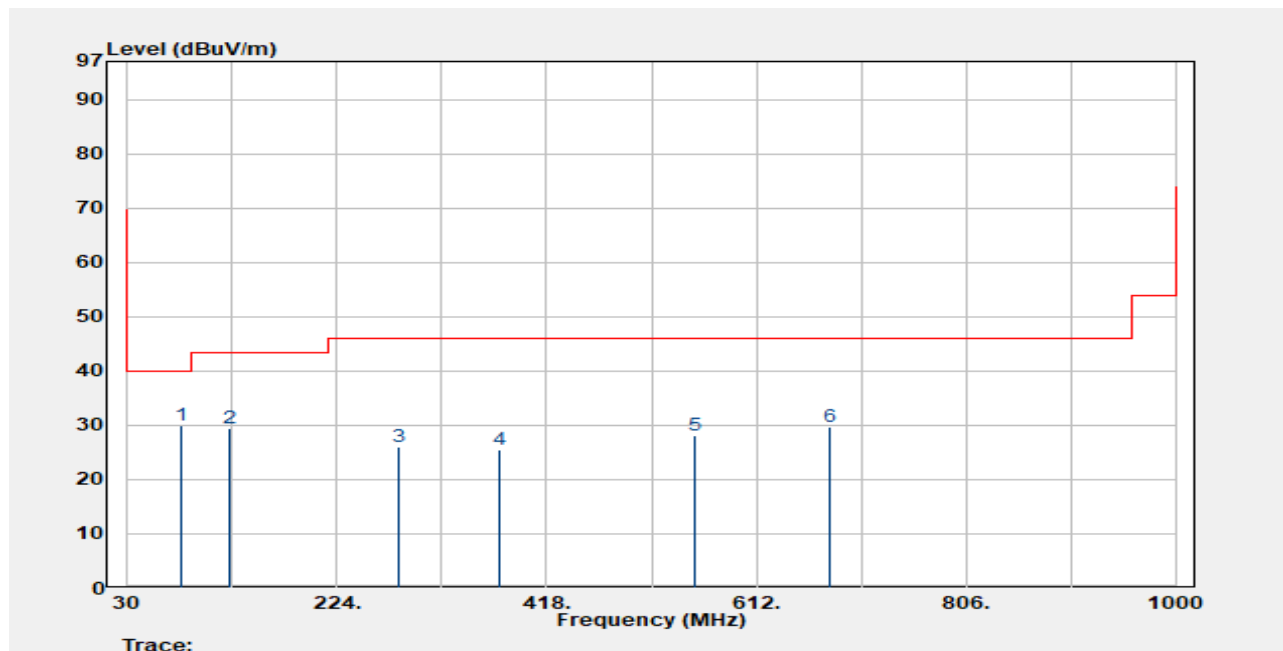
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
80.440	Peak	42.21	-12.15	30.06	40.00	-9.94
125.060	Peak	38.59	-9.19	29.40	43.50	-14.10
280.260	Peak	32.63	-6.53	26.10	46.00	-19.90
373.380	Peak	30.13	-4.68	25.45	46.00	-20.55
555.740	Peak	29.51	-1.46	28.05	46.00	-17.95
679.900	Peak	28.37	1.22	29.58	46.00	-16.42

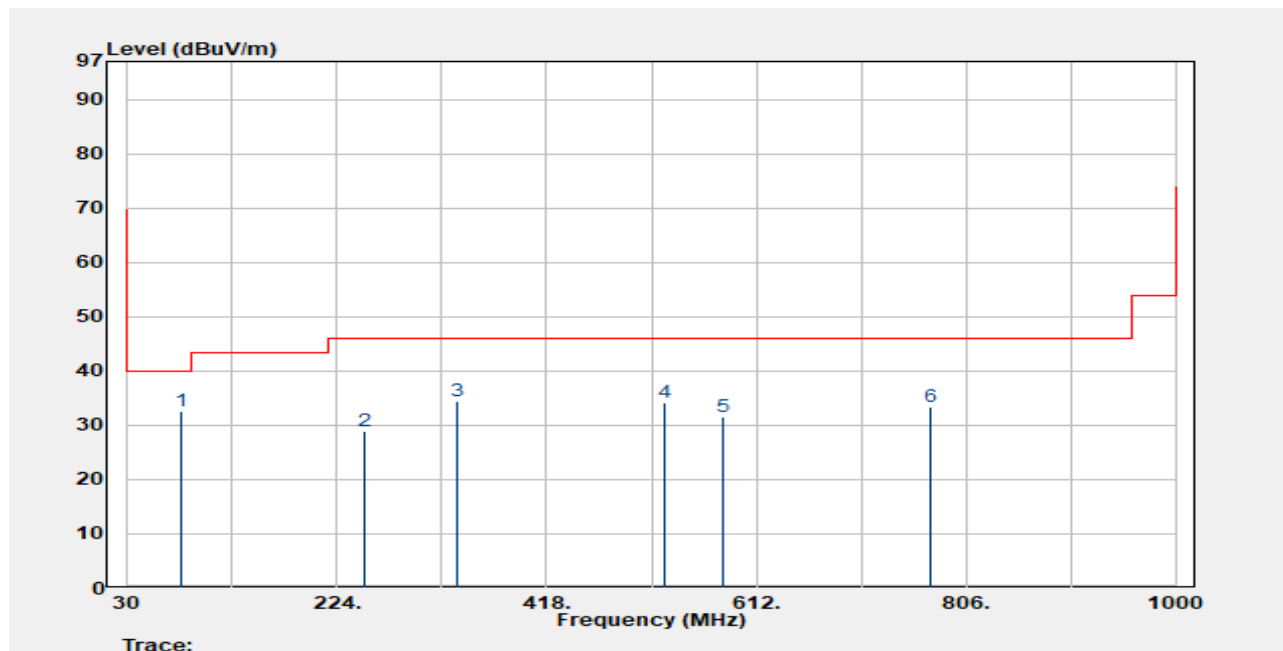
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	44.86	-12.15	32.71	40.00	-7.29
249.220	Peak	36.74	-7.92	28.83	46.00	-17.17
335.550	Peak	39.42	-5.02	34.40	46.00	-11.60
527.610	Peak	36.96	-2.71	34.26	46.00	-11.74
581.930	Peak	31.59	-0.16	31.43	46.00	-14.57
773.020	Peak	31.15	2.13	33.27	46.00	-12.73

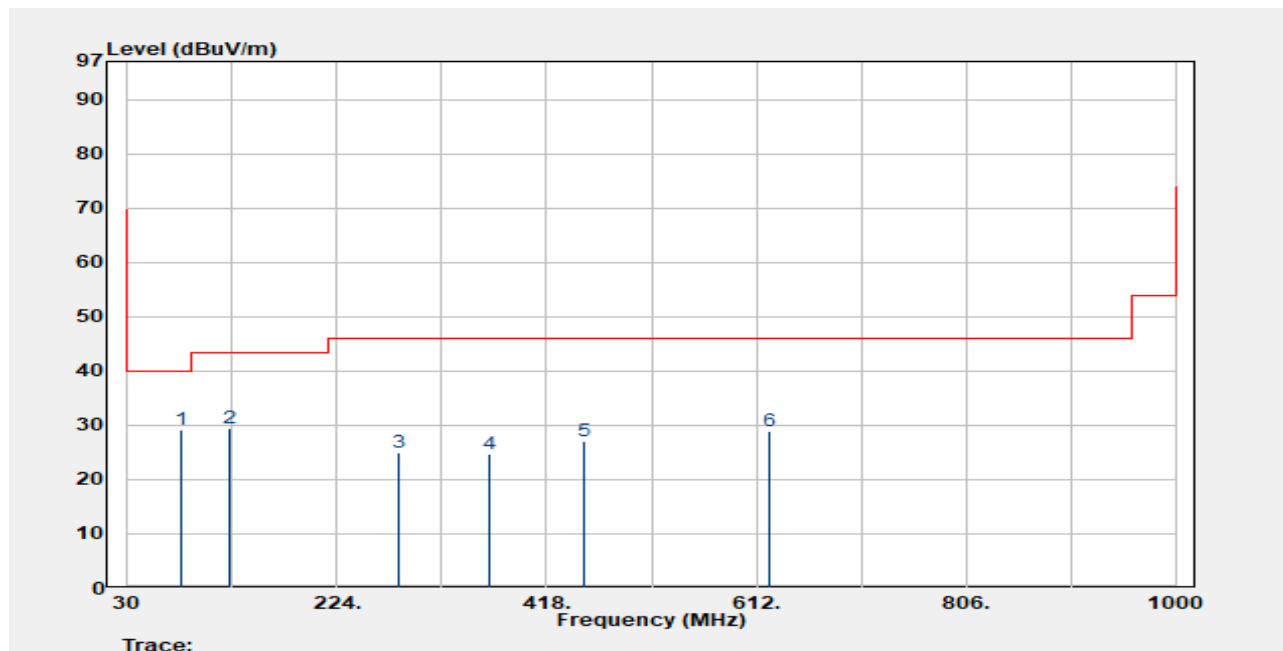
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	41.44	-12.15	29.29	40.00	-10.71
125.060	Peak	38.58	-9.19	29.39	43.50	-14.11
280.260	Peak	31.58	-6.53	25.05	46.00	-20.95
365.620	Peak	29.51	-4.76	24.76	46.00	-21.24
452.920	Peak	29.63	-2.46	27.17	46.00	-18.83
624.610	Peak	29.52	-0.57	28.95	46.00	-17.05

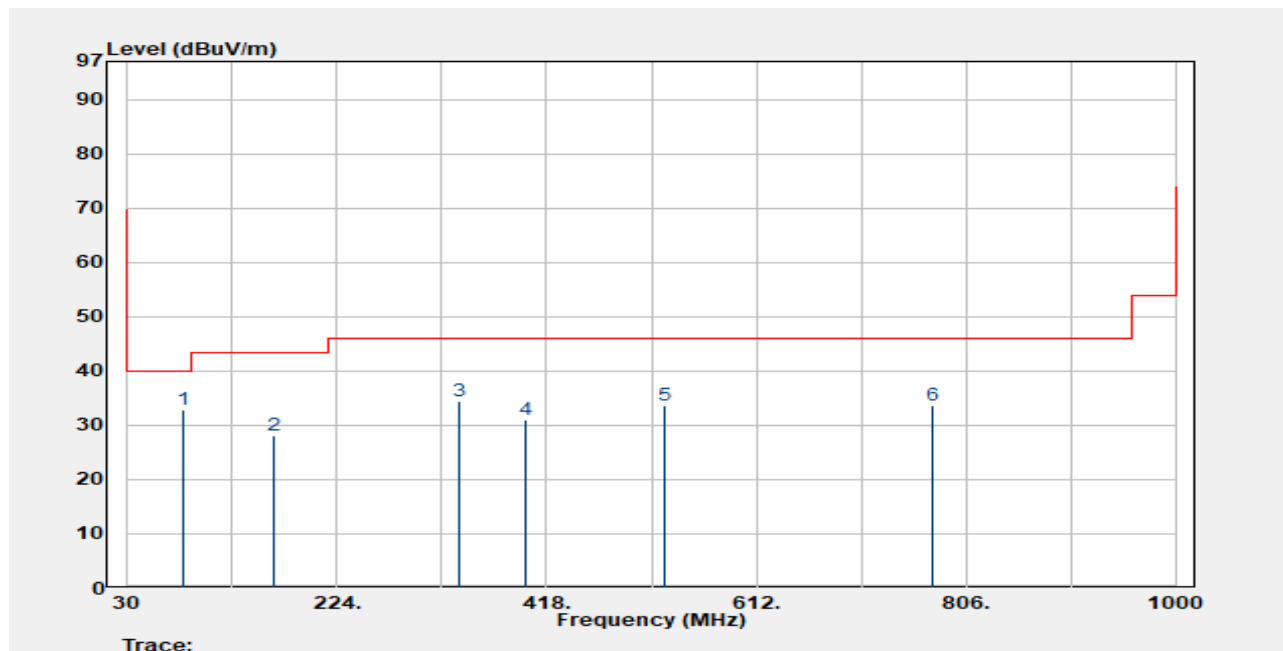
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Report Number :ER-2021-90006
Operation Mode :802.11a
Test Frequency :5785 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-25
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
81.410	Peak	45.26	-12.42	32.85	40.00	-7.15
165.800	Peak	35.73	-7.50	28.22	43.50	-15.28
336.520	Peak	39.31	-5.00	34.31	46.00	-11.69
398.600	Peak	35.32	-4.36	30.96	46.00	-15.04
527.610	Peak	36.47	-2.71	33.76	46.00	-12.24
775.930	Peak	31.53	2.13	33.66	46.00	-12.34

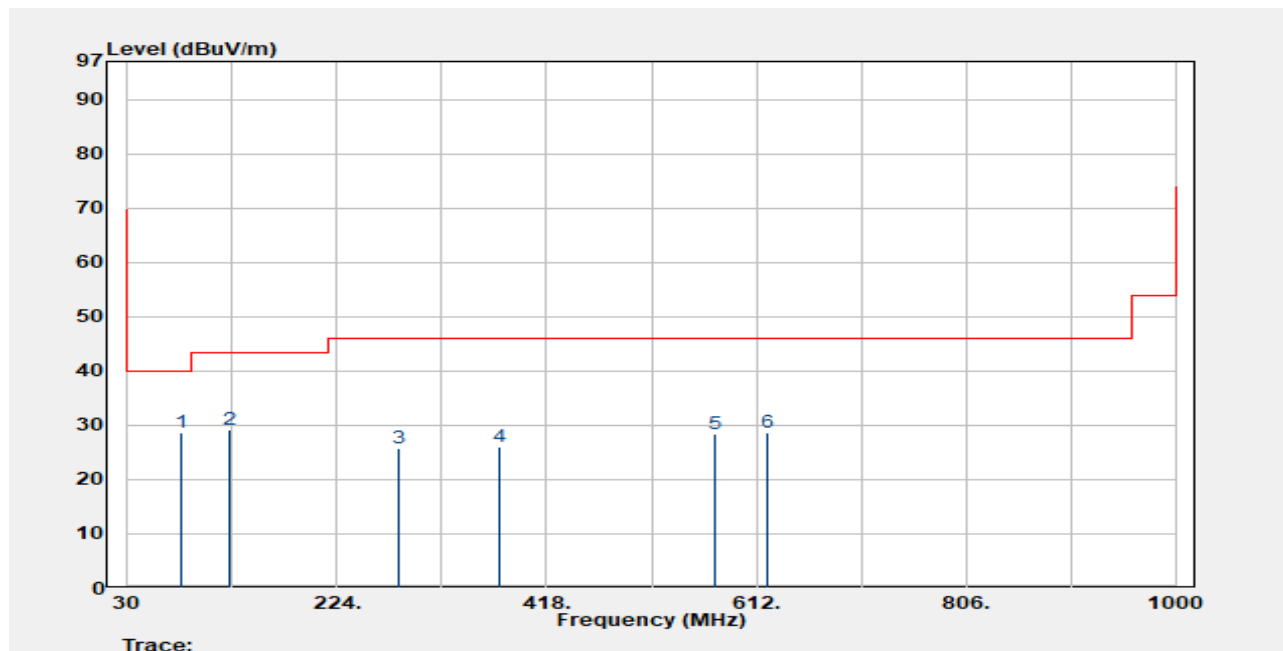
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Report Number :ER-2021-90006
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Vertical
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	40.88	-12.15	28.73	40.00	-11.27
125.060	Peak	38.36	-9.19	29.17	43.50	-14.33
280.260	Peak	32.34	-6.53	25.81	46.00	-20.19
374.350	Peak	30.80	-4.67	26.13	46.00	-19.87
573.200	Peak	28.97	-0.56	28.41	46.00	-17.59
622.670	Peak	29.29	-0.57	28.71	46.00	-17.29

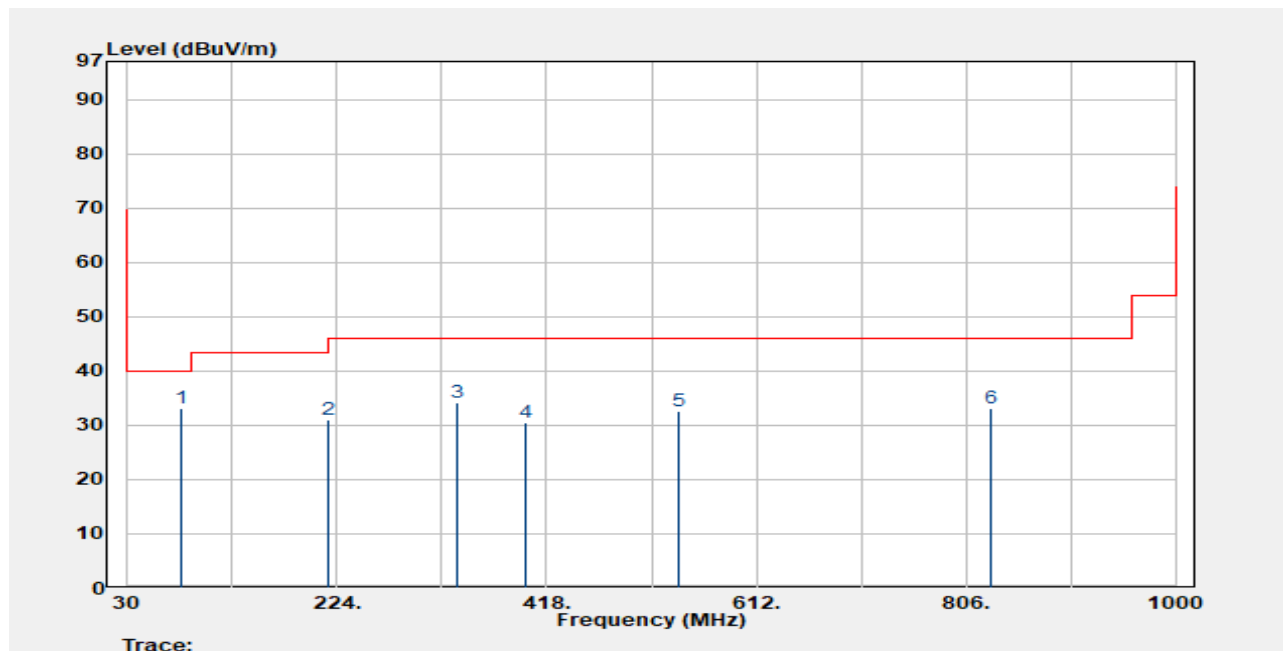
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Report Number :ER-2021-90006
 Operation Mode :802.11ac80
 Test Frequency :5210 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	45.30	-12.15	33.14	40.00	-6.86
216.240	Peak	40.20	-9.29	30.91	46.00	-15.09
335.550	Peak	39.22	-5.02	34.20	46.00	-11.80
398.600	Peak	34.91	-4.36	30.54	46.00	-15.46
540.220	Peak	34.73	-2.21	32.52	46.00	-13.48
829.280	Peak	29.62	3.61	33.23	46.00	-12.77

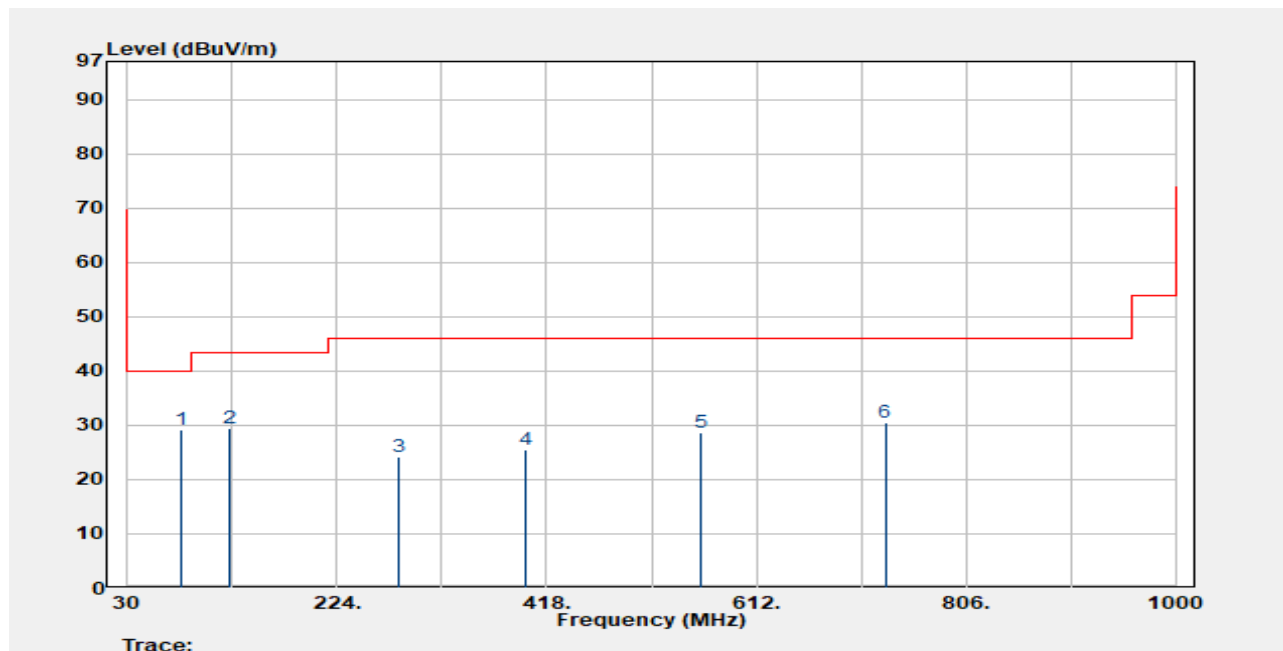
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Report Number :ER-2021-90006
 Operation Mode :802.11ac80
 Test Frequency :5290 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
80.440	Peak	41.33	-12.15	29.18	40.00	-10.82
125.060	Peak	38.67	-9.19	29.48	43.50	-14.02
280.260	Peak	30.59	-6.53	24.06	46.00	-21.94
398.600	Peak	29.75	-4.36	25.39	46.00	-20.61
560.590	Peak	29.83	-1.24	28.59	46.00	-17.41
731.310	Peak	28.92	1.47	30.39	46.00	-15.61

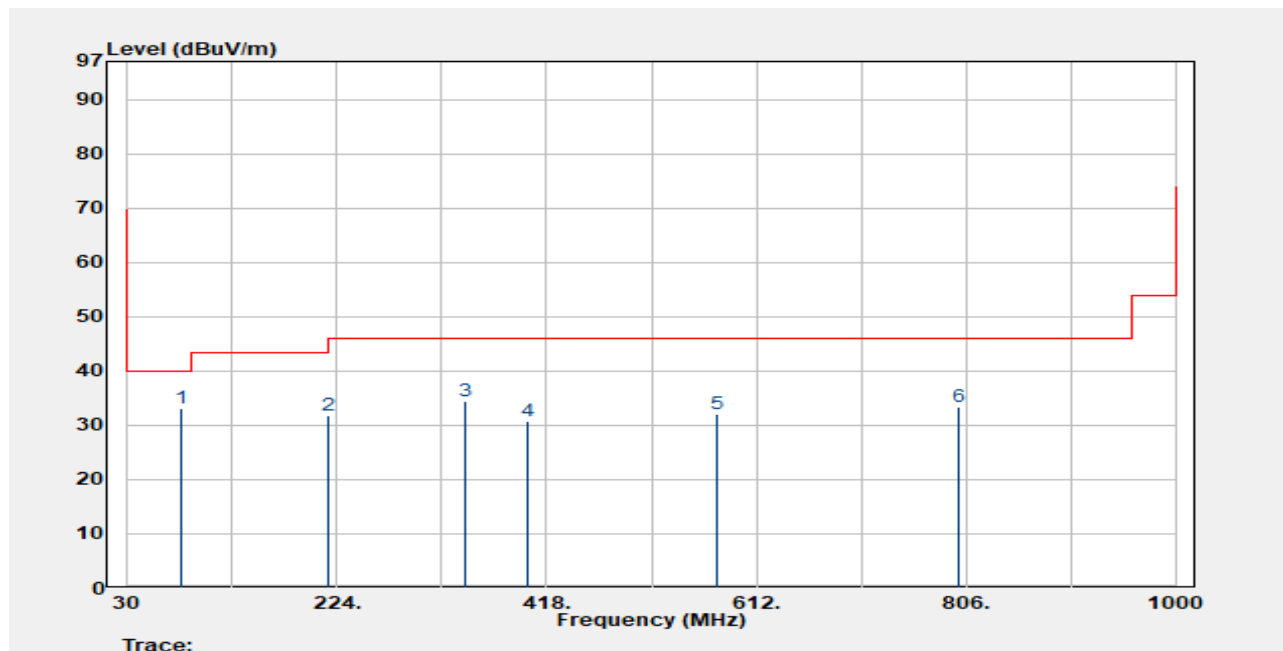
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Report Number :ER-2021-90006
Operation Mode :802.11ac80
Test Frequency :5290 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	45.35	-12.15	33.20	40.00	-6.80
216.240	Peak	41.18	-9.29	31.89	46.00	-14.11
343.310	Peak	39.53	-4.97	34.56	46.00	-11.44
399.570	Peak	35.17	-4.38	30.79	46.00	-15.21
576.110	Peak	32.61	-0.42	32.19	46.00	-13.81
799.210	Peak	30.71	2.80	33.51	46.00	-12.49

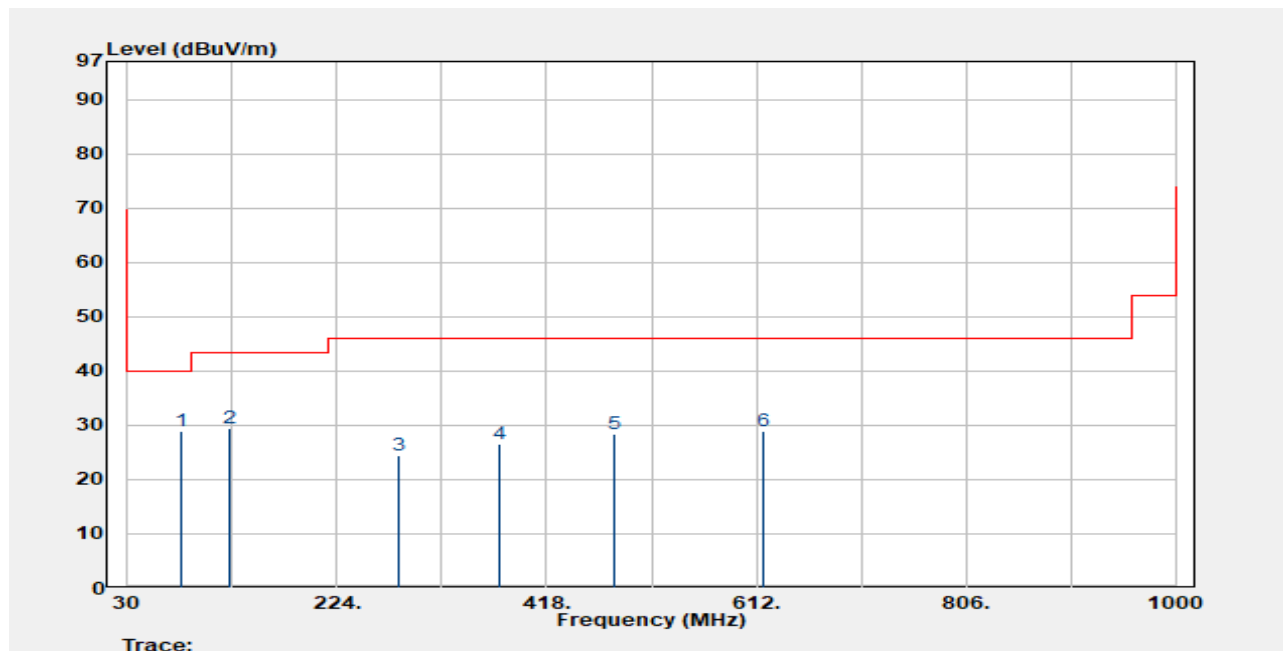
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Report Number :ER-2021-90006
Operation Mode :802.11ac80
Test Frequency :5610 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Vertical
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
80.440	Peak	40.97	-12.15	28.82	40.00	-11.18
125.060	Peak	38.75	-9.19	29.56	43.50	-13.94
280.260	Peak	31.07	-6.53	24.54	46.00	-21.46
374.350	Peak	31.13	-4.67	26.46	46.00	-19.54
480.080	Peak	30.92	-2.45	28.47	46.00	-17.53
617.820	Peak	29.34	-0.53	28.81	46.00	-17.19

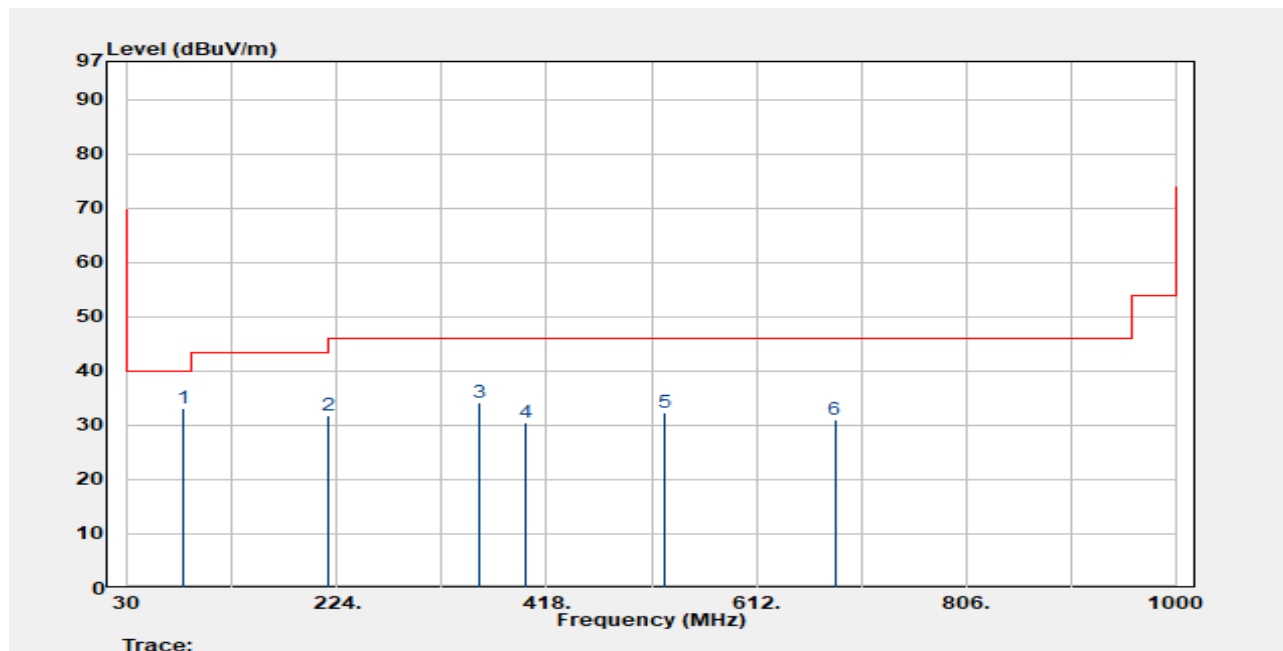
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Report Number :ER-2021-90006
Operation Mode :802.11ac80
Test Frequency :5610 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
81.410	Peak	45.54	-12.42	33.12	40.00	-6.88
216.240	Peak	41.07	-9.29	31.78	46.00	-14.22
355.920	Peak	39.22	-4.92	34.30	46.00	-11.70
398.600	Peak	34.91	-4.36	30.55	46.00	-15.45
527.610	Peak	35.01	-2.71	32.31	46.00	-13.69
684.750	Peak	29.83	1.31	31.15	46.00	-14.85

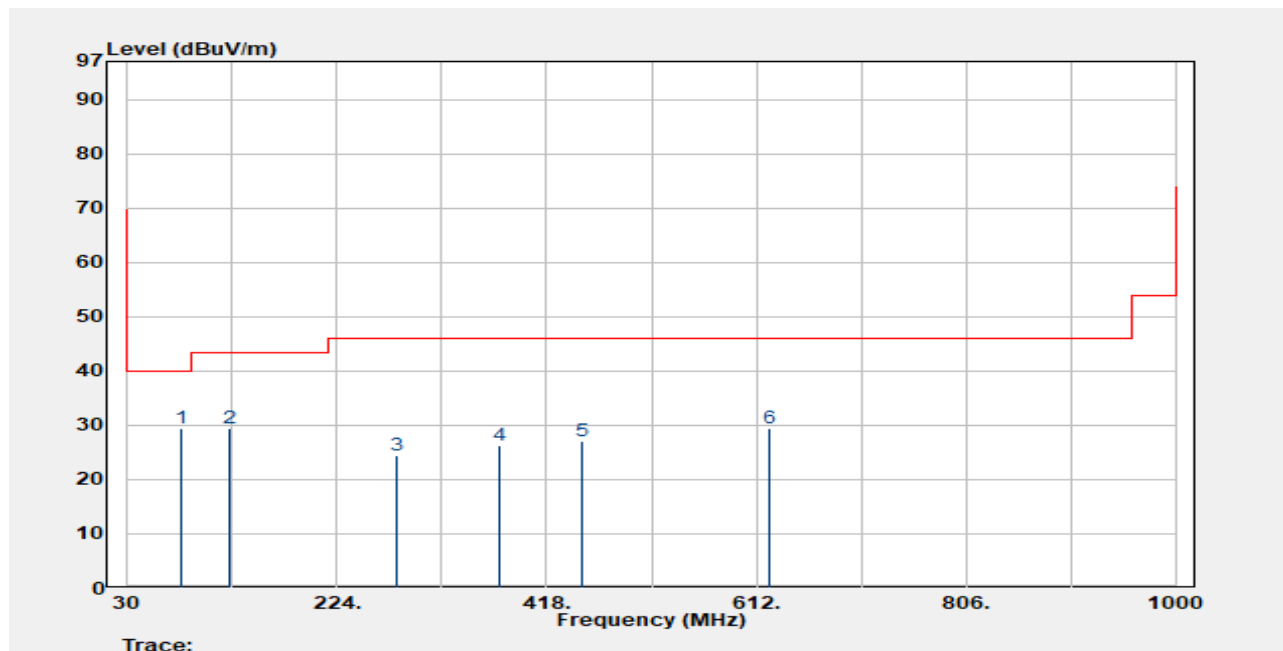
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Report Number :ER-2021-90006
Operation Mode :802.11ac80
Test Frequency :5775 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Vertical
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
80.440	Peak	41.71	-12.15	29.56	40.00	-10.44
125.060	Peak	38.66	-9.19	29.47	43.50	-14.03
278.320	Peak	31.20	-6.64	24.56	46.00	-21.44
373.380	Peak	30.90	-4.68	26.22	46.00	-19.78
450.980	Peak	29.52	-2.53	26.99	46.00	-19.01
623.640	Peak	29.94	-0.57	29.36	46.00	-16.64

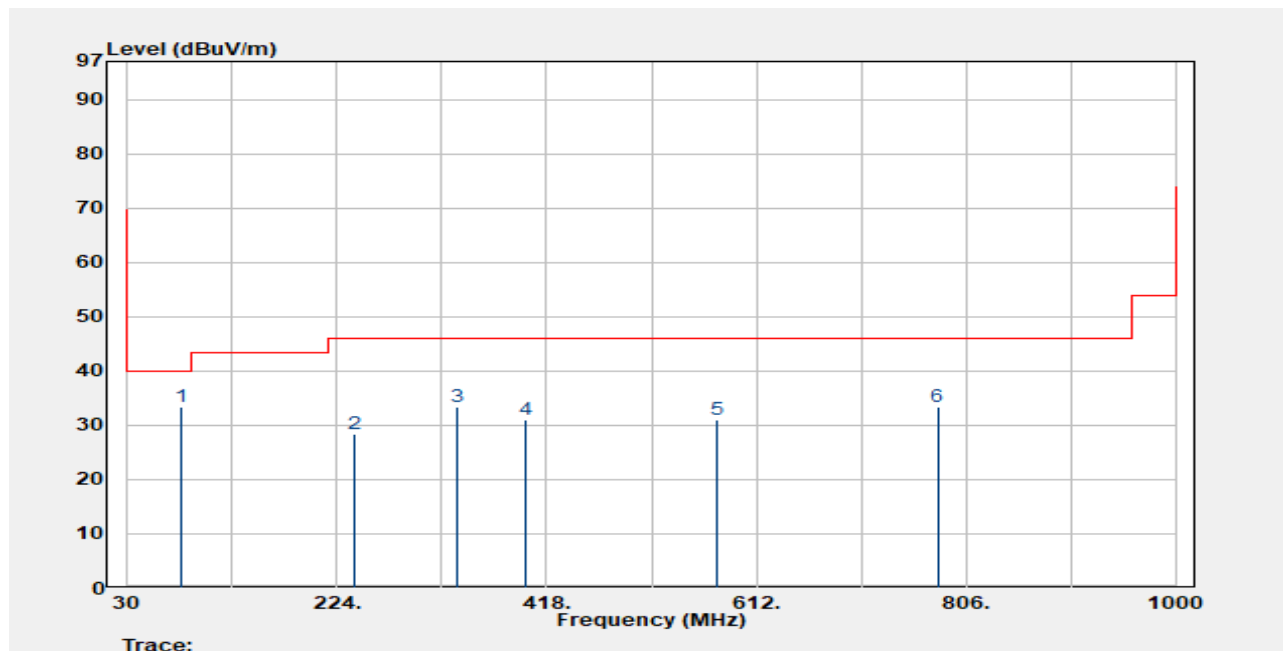
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Report Number :ER-2021-90006
 Operation Mode :802.11ac80
 Test Frequency :5775 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
80.440	Peak	45.48	-12.15	33.33	40.00	-6.67
240.490	Peak	36.66	-8.22	28.44	46.00	-17.56
335.550	Peak	38.51	-5.02	33.49	46.00	-12.51
398.600	Peak	35.37	-4.36	31.00	46.00	-15.00
576.110	Peak	31.44	-0.42	31.02	46.00	-14.98
779.810	Peak	31.14	2.14	33.28	46.00	-12.72

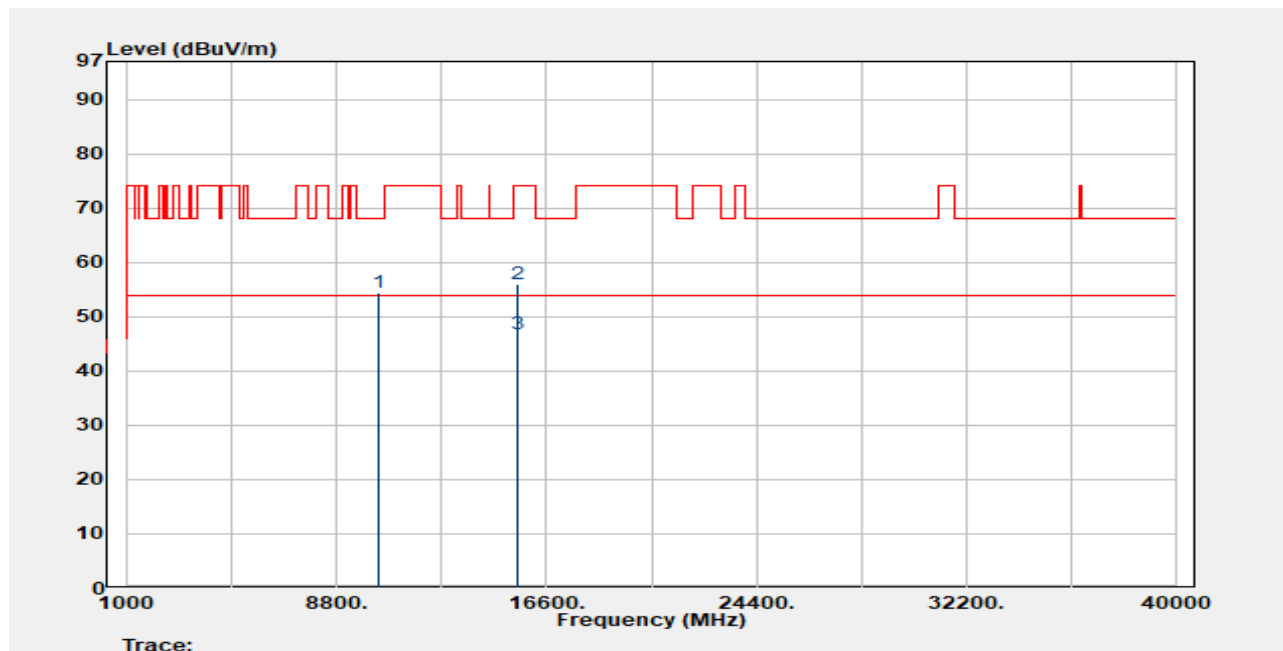
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.000	Peak	33.86	20.53	54.40	68.20	-13.80
15540.000	Peak	32.70	23.22	55.92	74.00	-18.08
15540.000	Average	23.52	23.22	46.74	54.00	-7.26

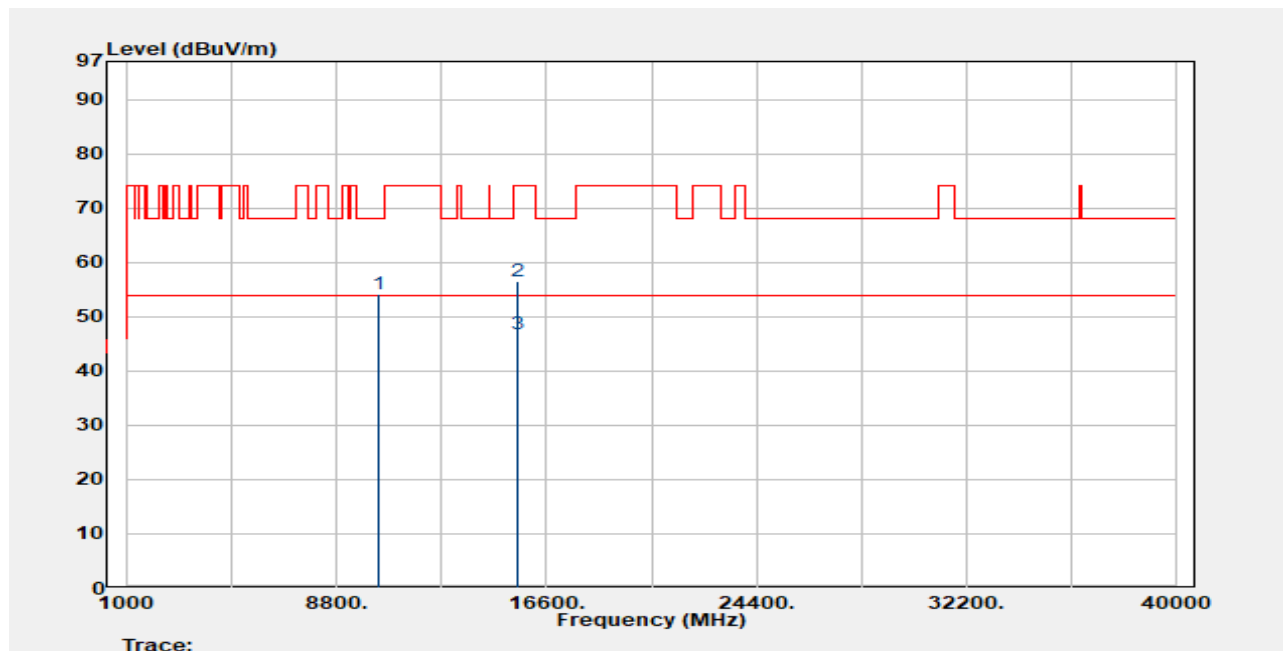
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Report Number :ER-2021-90006
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.000	Peak	33.99	20.13	54.13	68.20	-14.07
15540.000	Peak	33.35	23.19	56.55	74.00	-17.45
15540.000	Average	23.48	23.19	46.67	54.00	-7.33

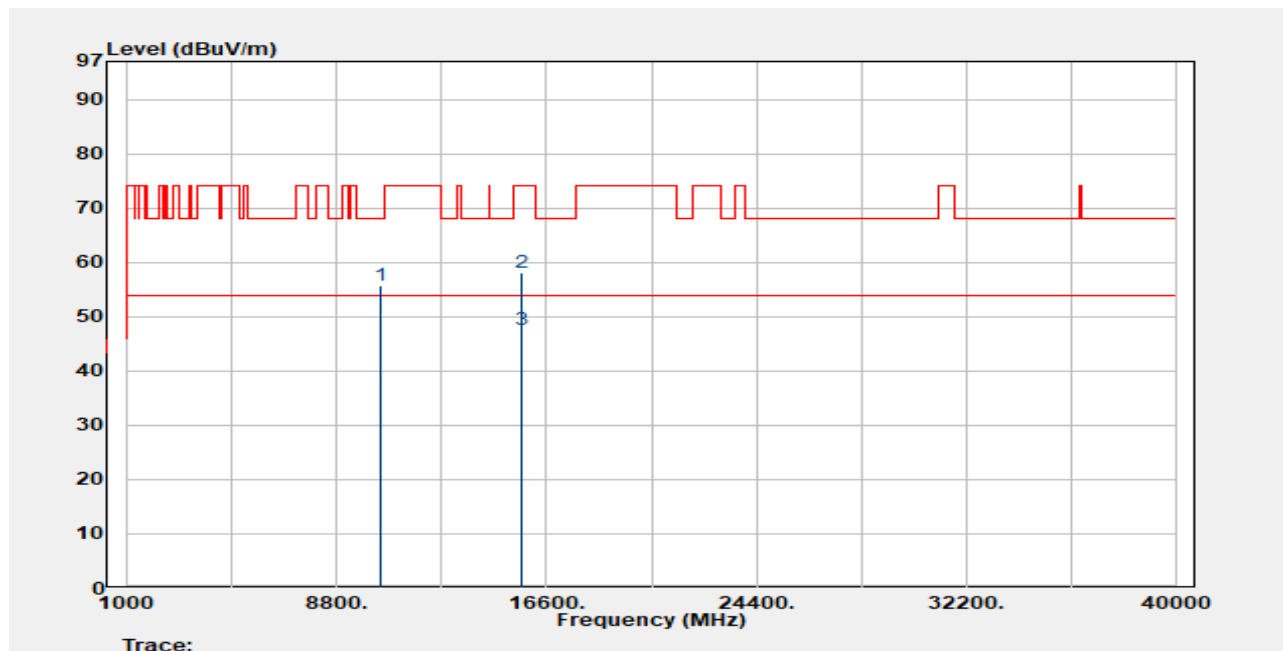
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	35.52	20.33	55.85	68.20	-12.35
15660.000	Peak	35.33	22.86	58.18	74.00	-15.82
15660.000	Average	24.65	22.86	47.51	54.00	-6.49

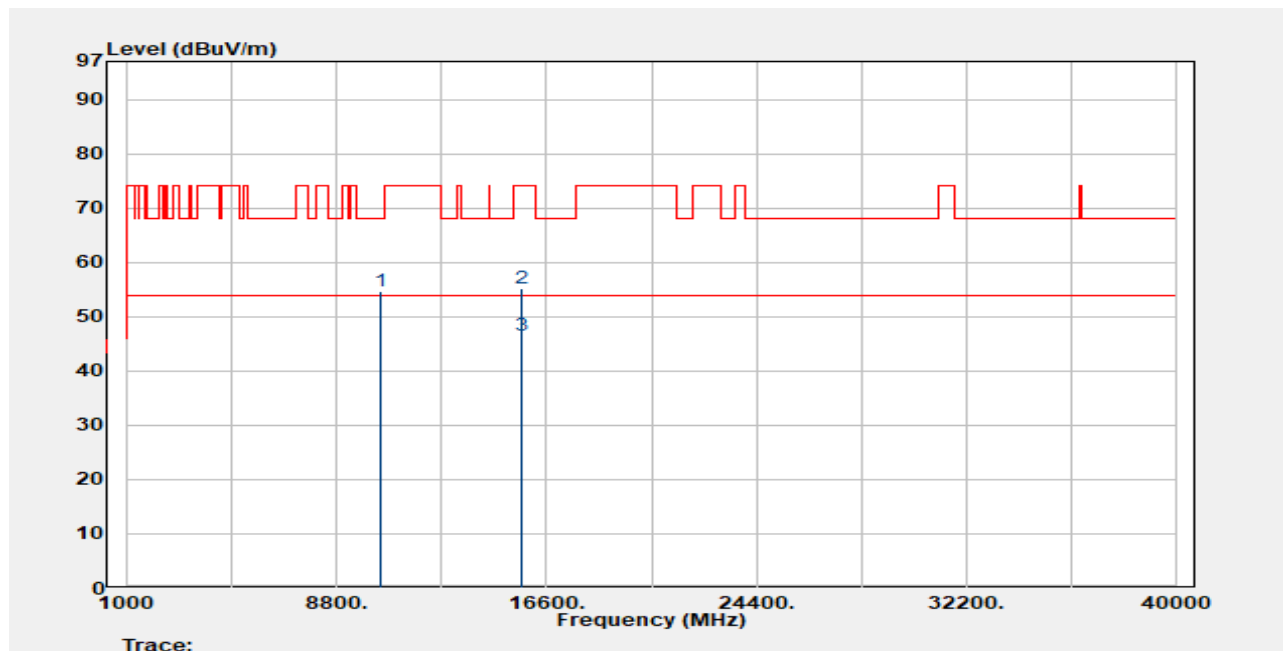
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	34.33	20.42	54.75	68.20	-13.45
15660.000	Peak	32.19	22.97	55.16	74.00	-18.84
15660.000	Average	23.53	22.97	46.50	54.00	-7.50

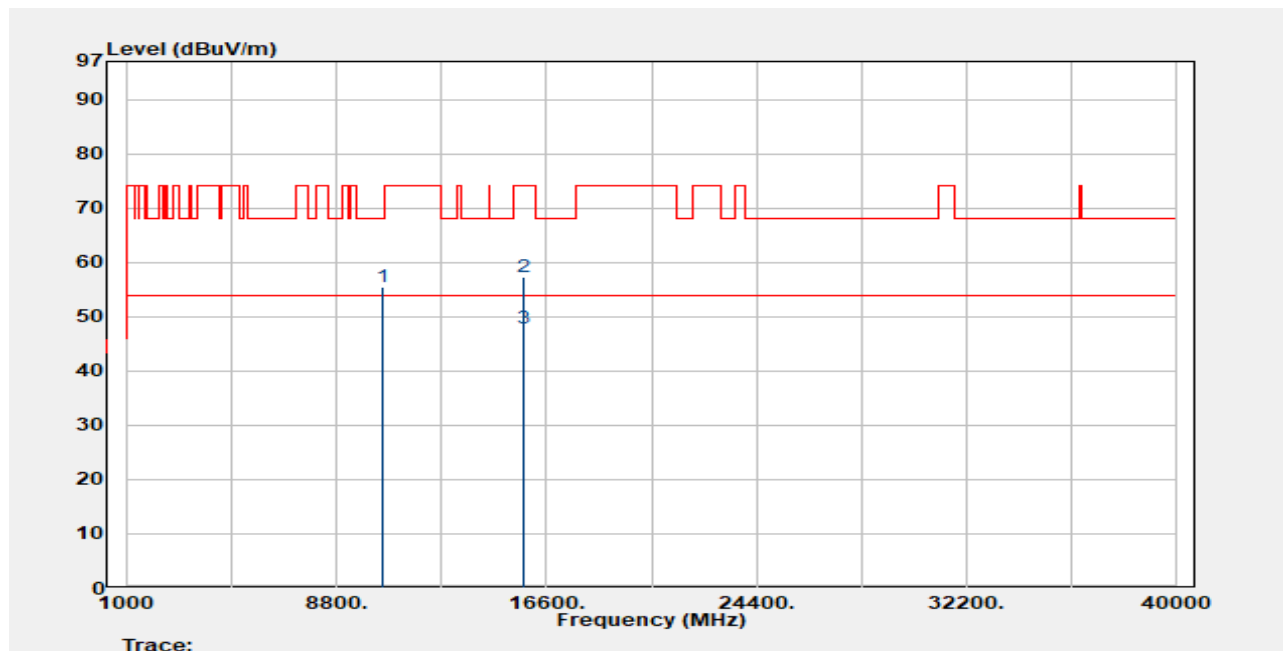
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	34.16	21.20	55.36	68.20	-12.84
15720.000	Peak	34.19	23.12	57.31	74.00	-16.69
15720.000	Average	24.70	23.12	47.82	54.00	-6.18

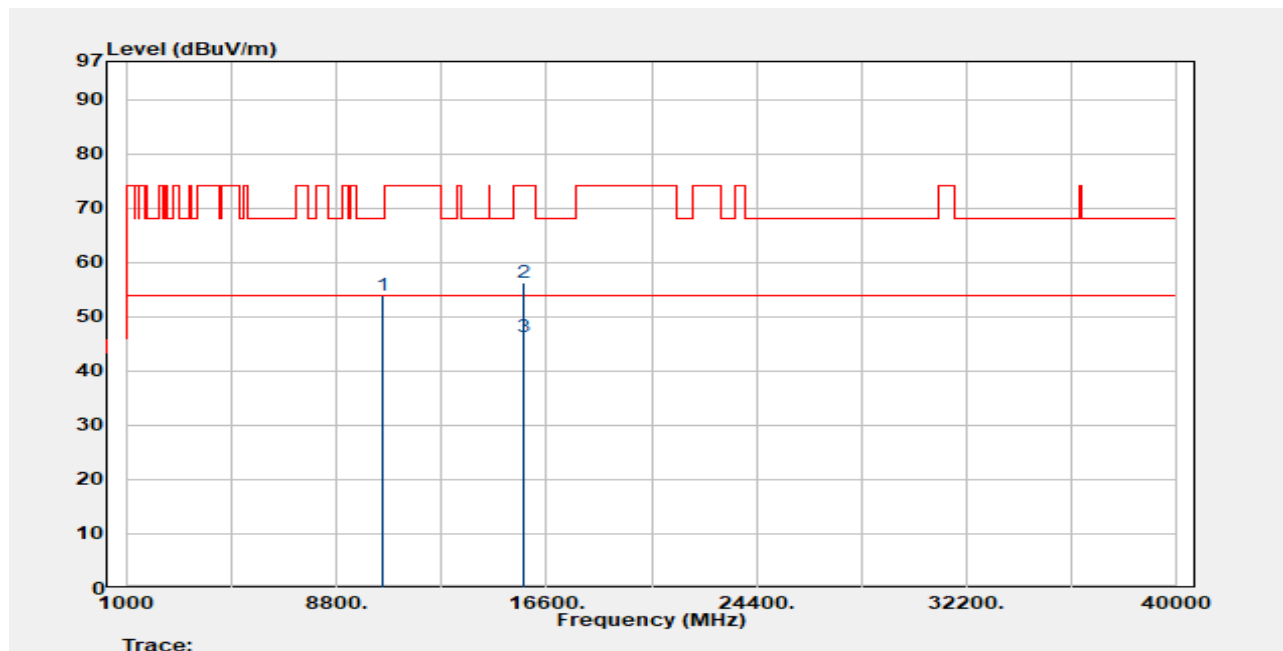
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.12	20.76	53.87	68.20	-14.33
15720.000	Peak	33.37	23.01	56.38	74.00	-17.62
15720.000	Average	23.36	23.01	46.37	54.00	-7.63

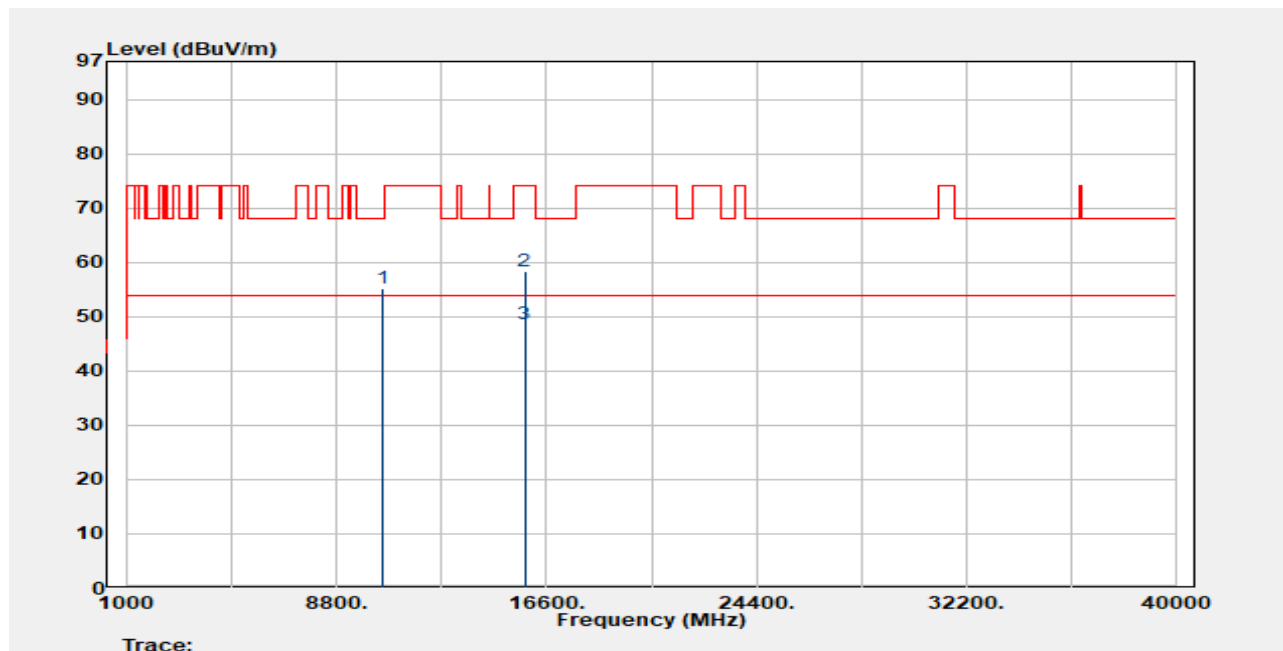
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Peak	33.62	21.49	55.11	68.20	-13.09
15780.000	Peak	34.83	23.44	58.27	74.00	-15.73
15780.000	Average	25.09	23.44	48.53	54.00	-5.47

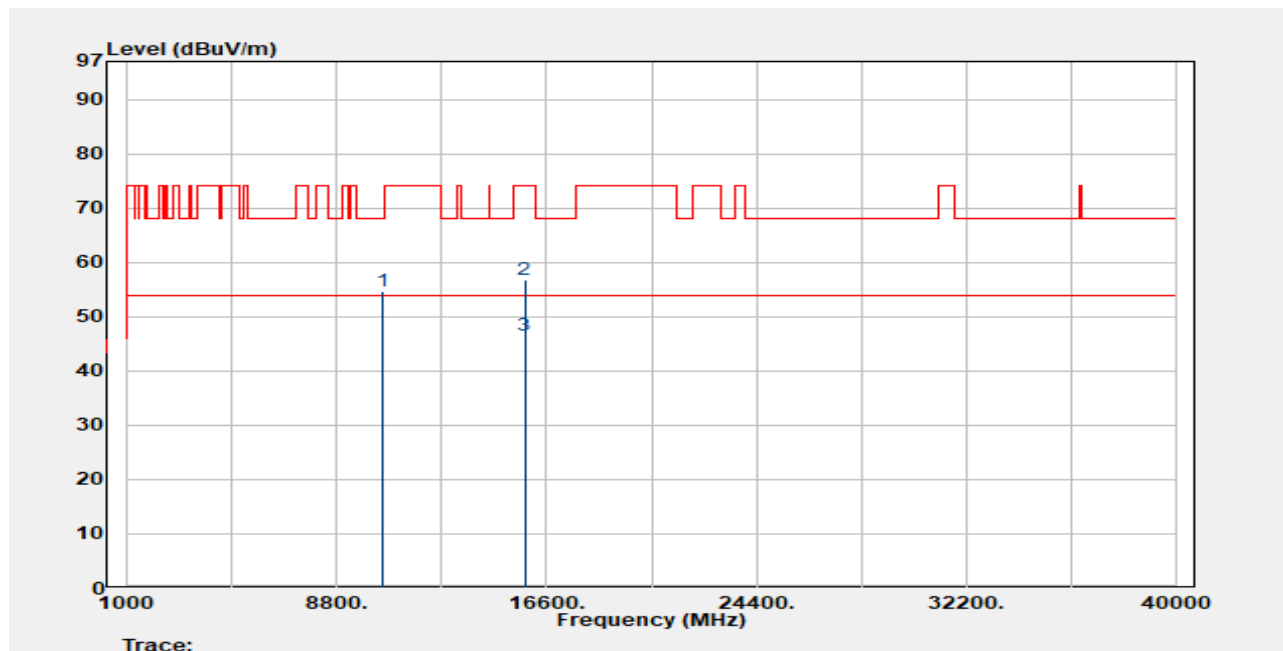
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Report Number :ER-2021-90006
Operation Mode :802.11a
Test Frequency :5260 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Peak	33.75	20.87	54.61	68.20	-13.59
15780.000	Peak	33.79	23.08	56.87	74.00	-17.13
15780.000	Average	23.56	23.08	46.64	54.00	-7.36

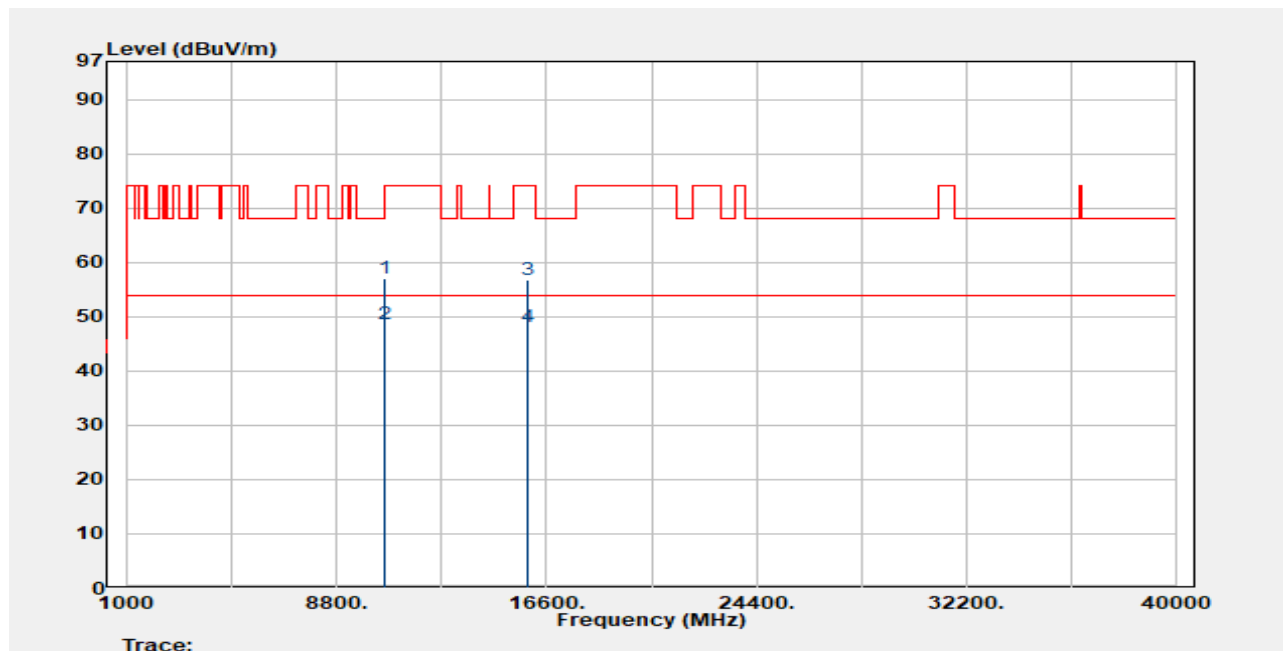
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	36.35	20.66	57.01	74.00	-16.99
10600.000	Average	27.86	20.66	48.52	54.00	-5.48
15900.000	Peak	33.83	22.90	56.73	74.00	-17.27
15900.000	Average	25.25	22.90	48.15	54.00	-5.85

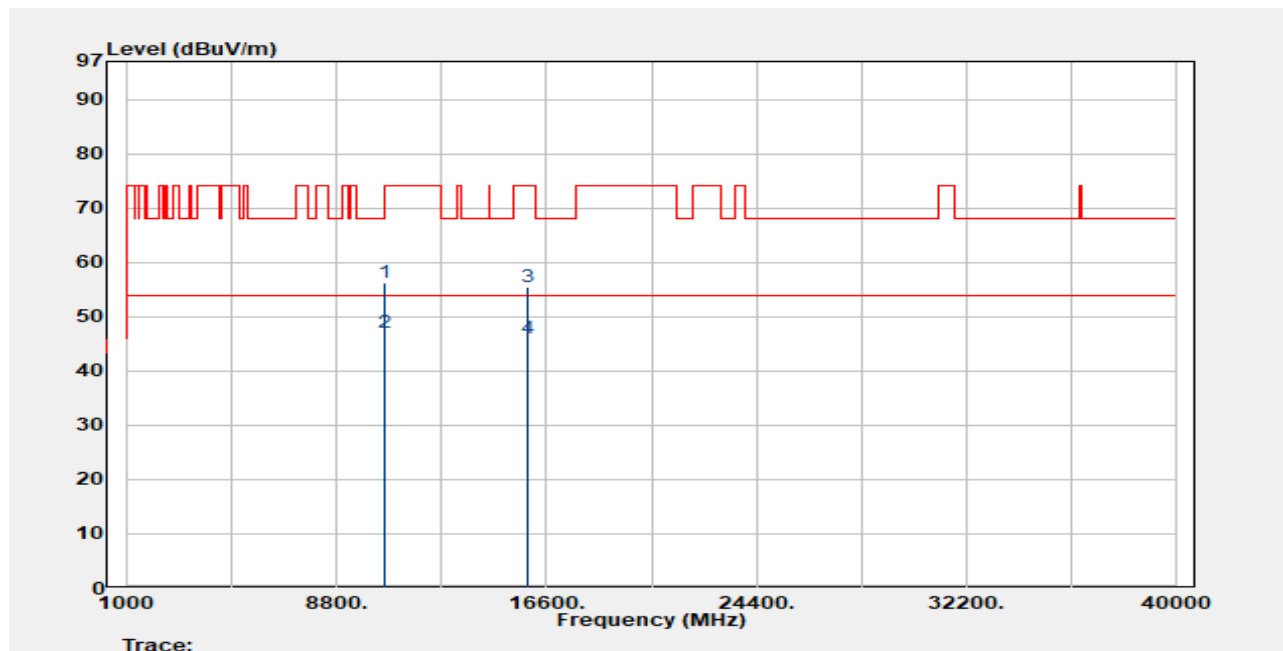
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	35.74	20.64	56.38	74.00	-17.62
10600.000	Average	26.32	20.64	46.96	54.00	-7.04
15900.000	Peak	32.40	23.03	55.43	74.00	-18.57
15900.000	Average	23.08	23.03	46.11	54.00	-7.89

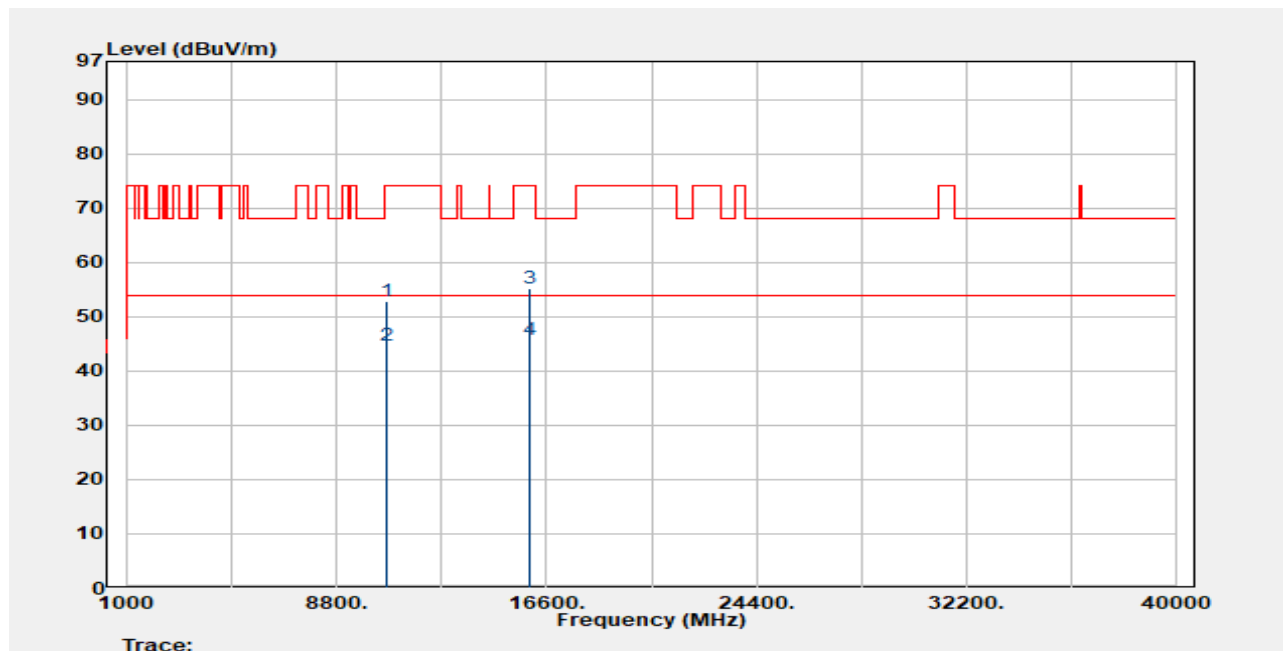
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10640.000	Peak	32.05	20.89	52.94	74.00	-21.06
10640.000	Average	23.92	20.89	44.81	54.00	-9.19
15960.000	Peak	33.18	22.07	55.25	74.00	-18.75
15960.000	Average	23.55	22.07	45.62	54.00	-8.38

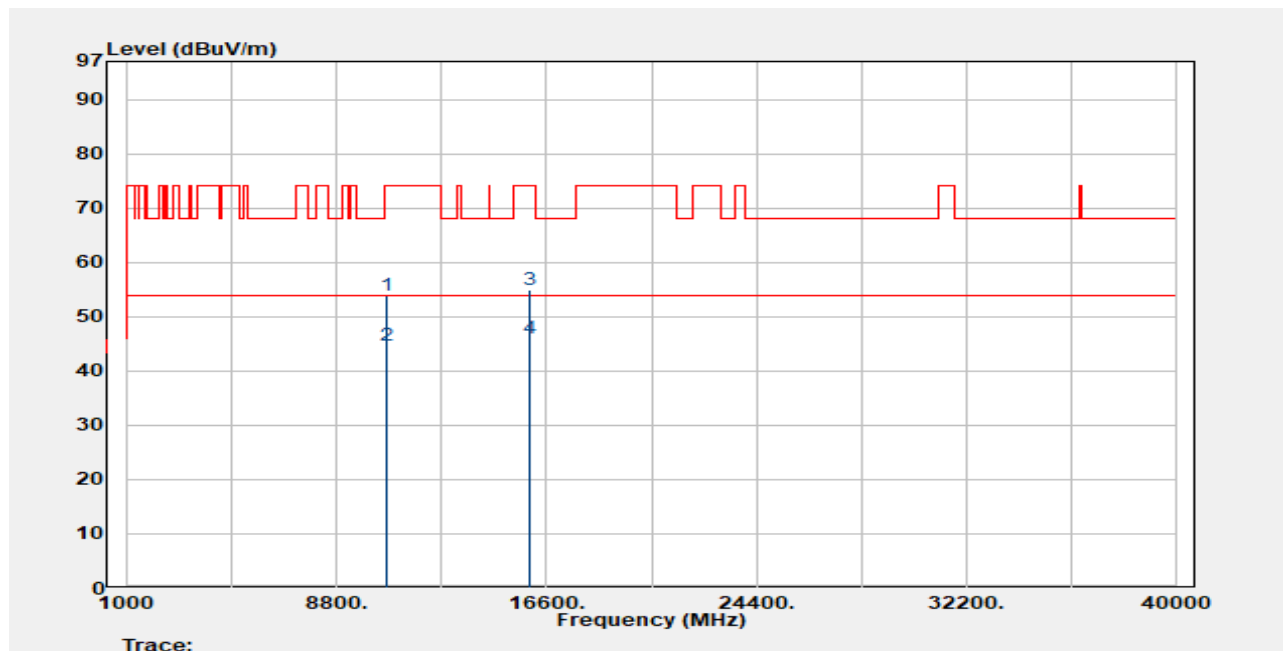
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10640.000	Peak	33.20	20.77	53.97	74.00	-20.03
10640.000	Average	23.79	20.77	44.56	54.00	-9.44
15960.000	Peak	32.46	22.59	55.05	74.00	-18.95
15960.000	Average	23.52	22.59	46.11	54.00	-7.89

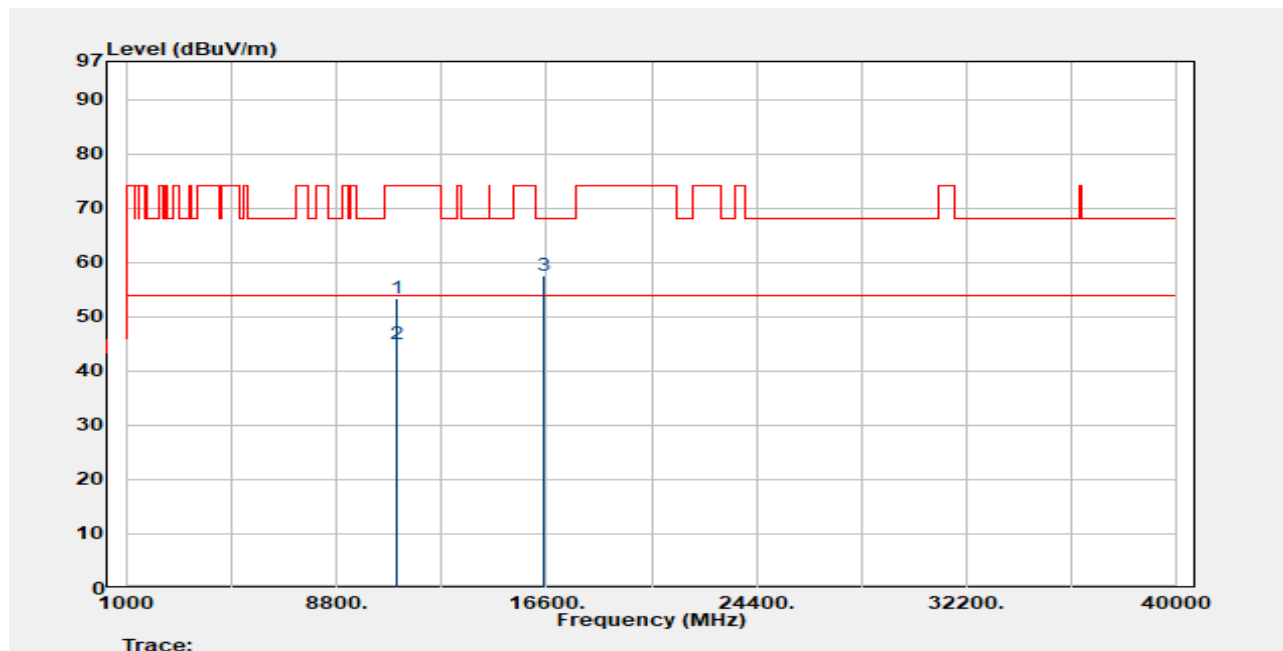
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	32.55	20.81	53.36	74.00	-20.64
11000.000	Average	24.13	20.81	44.94	54.00	-9.06
16500.000	Peak	32.70	24.95	57.66	68.20	-10.54

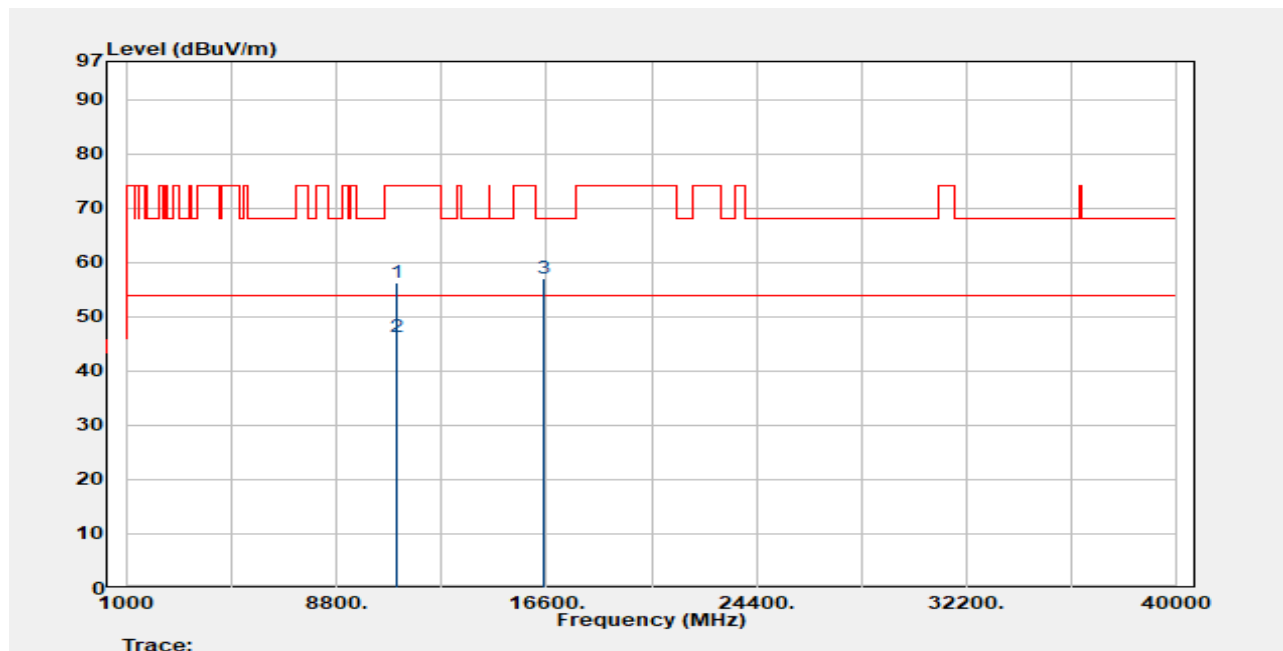
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	34.11	22.24	56.35	74.00	-17.65
11000.000	Average	23.98	22.24	46.22	54.00	-7.78
16500.000	Peak	31.83	25.33	57.16	68.20	-11.04

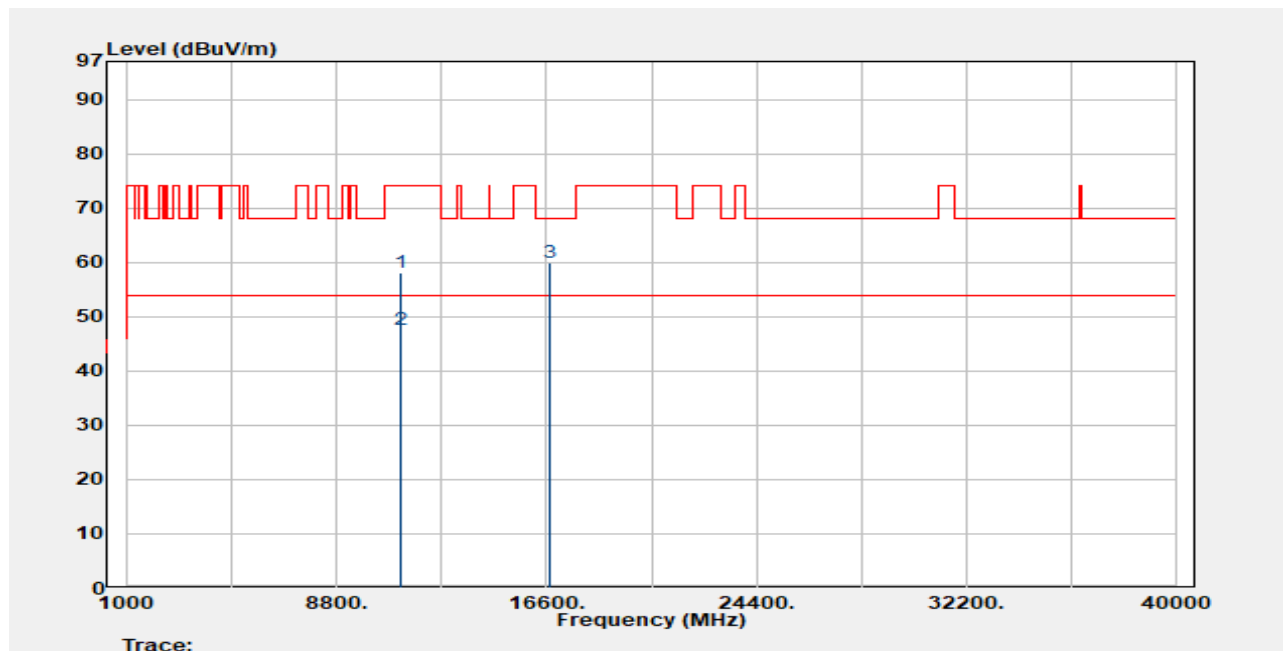
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	36.56	21.59	58.14	74.00	-15.86
11160.000	Average	25.96	21.59	47.55	54.00	-6.45
16740.000	Peak	32.54	27.42	59.96	68.20	-8.24

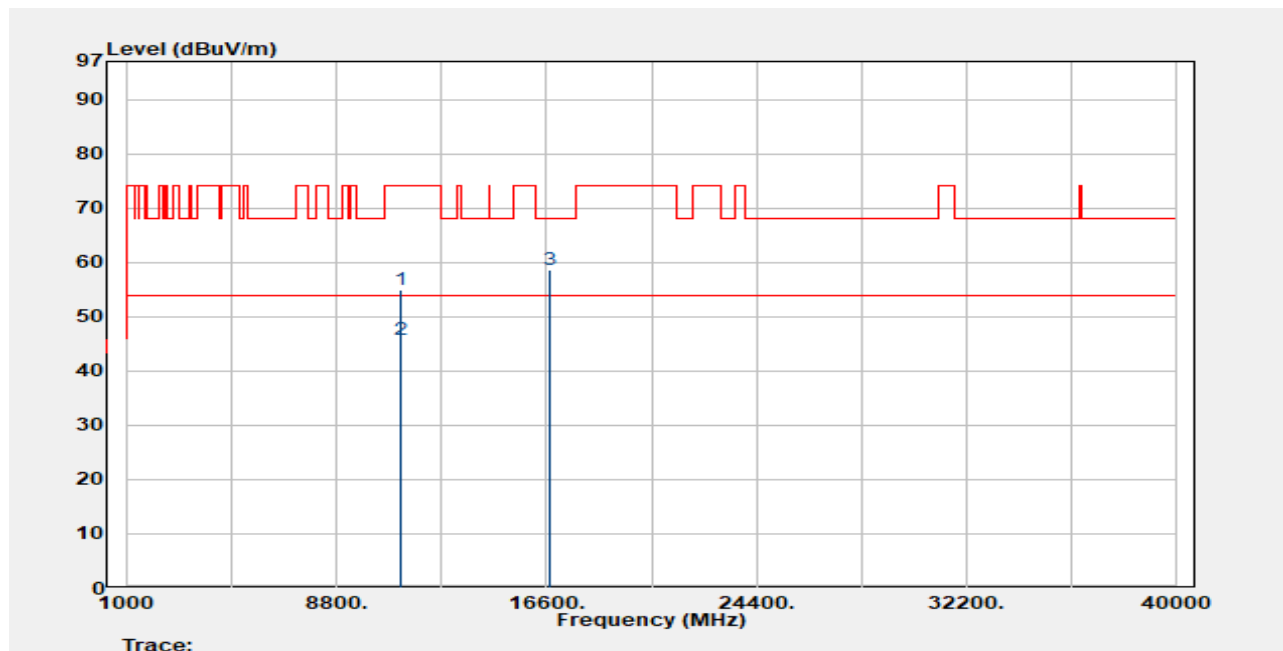
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.43	21.48	54.92	74.00	-19.08
11160.000	Average	24.39	21.48	45.87	54.00	-8.13
16740.000	Peak	31.74	27.01	58.75	68.20	-9.45

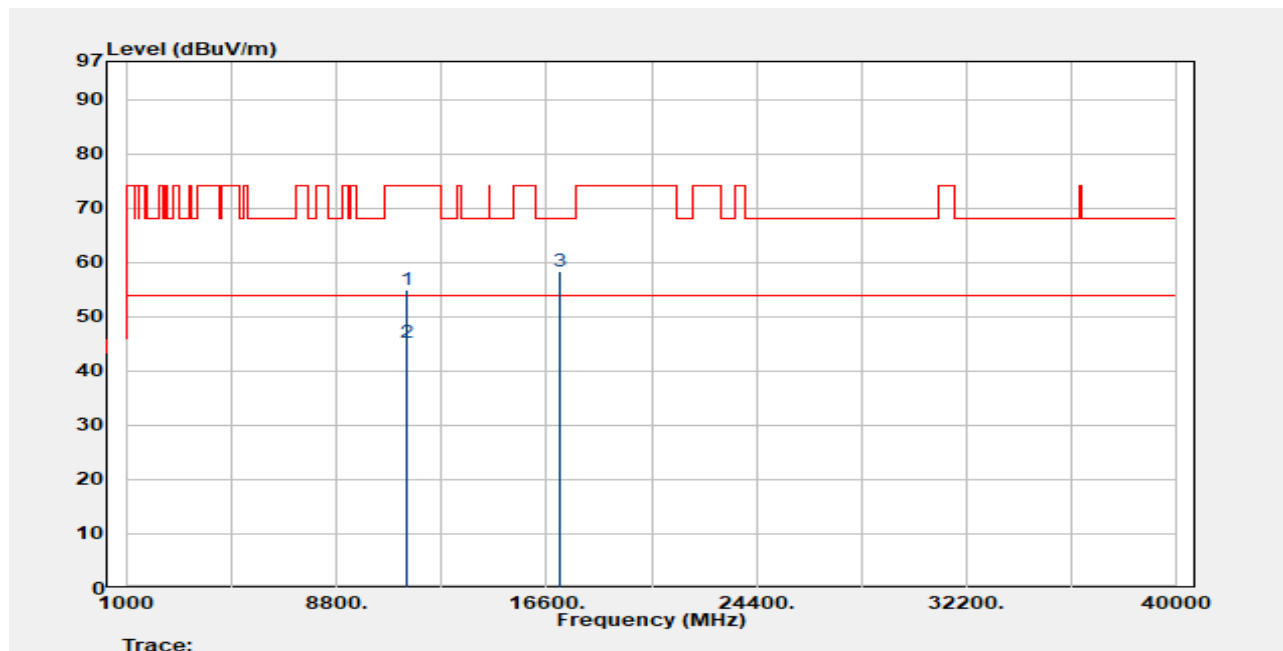
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



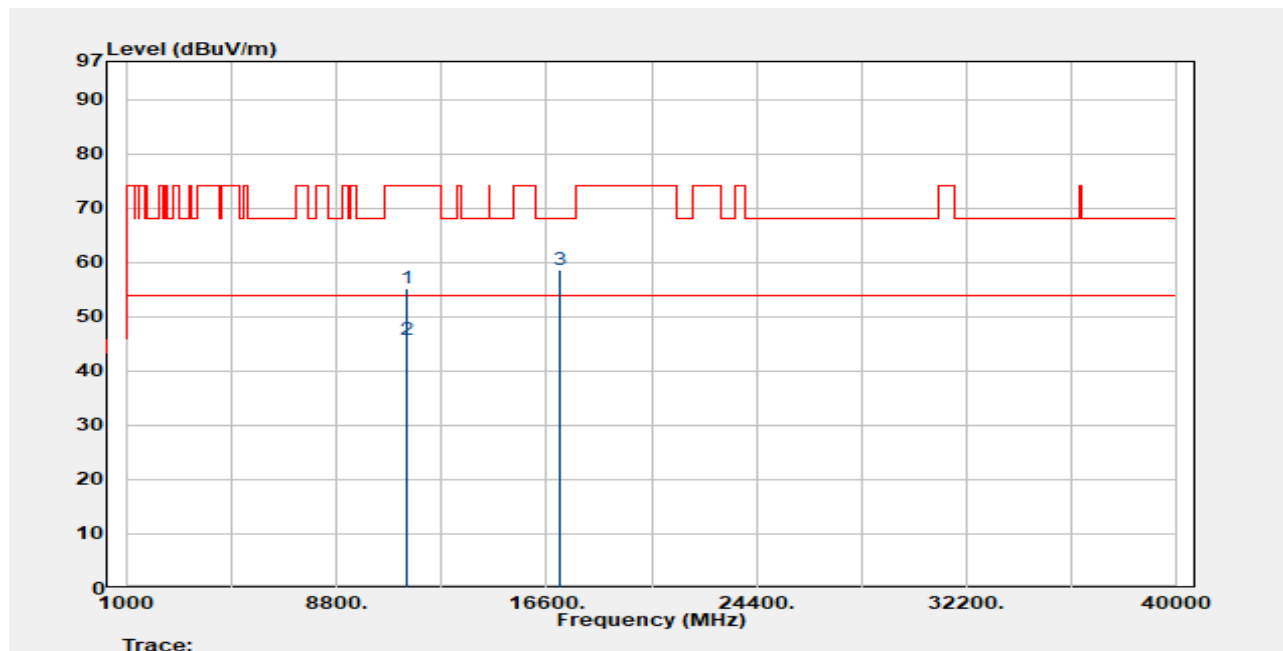
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Peak	34.13	20.80	54.93	74.00	-19.07
11400.000	Average	24.41	20.80	45.21	54.00	-8.79
17100.000	Peak	31.46	26.77	58.23	68.20	-9.97

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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.29	21.83	55.13	74.00	-18.87
11400.000	Average	23.82	21.83	45.65	54.00	-8.35
17100.000	Peak	31.52	27.23	58.75	68.20	-9.45

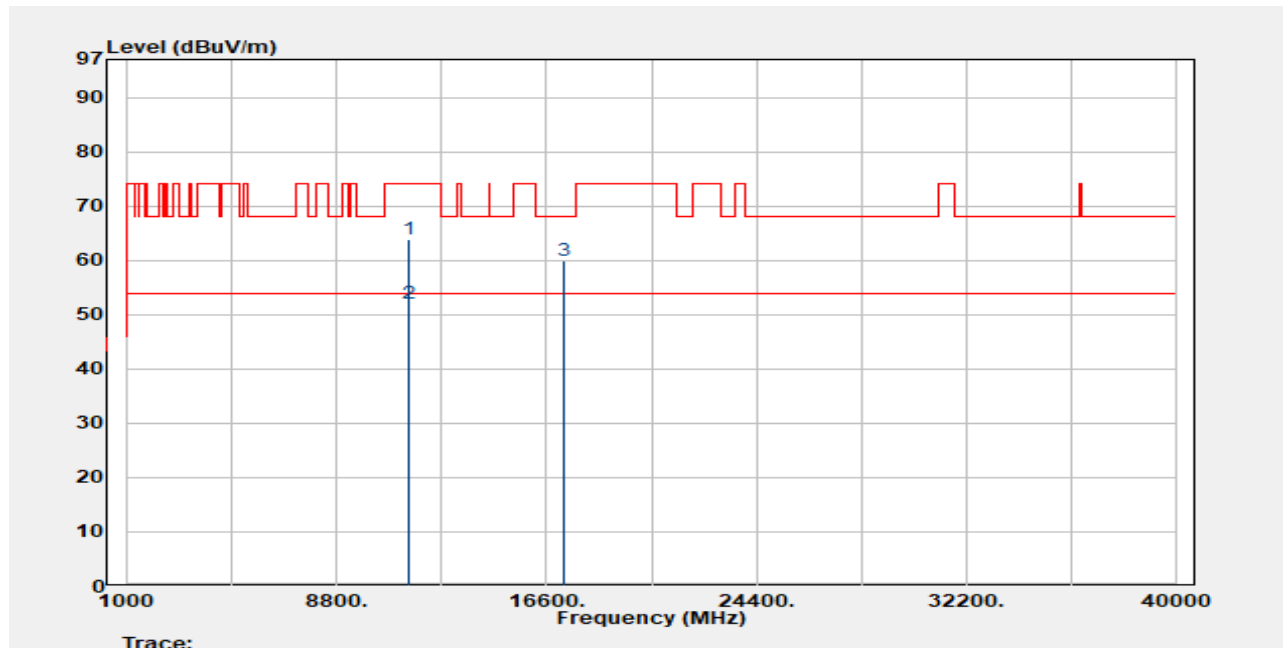
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.000	Peak	39.87	23.98	63.85	74.00	-10.15
11490.000	Average	28.18	23.98	52.16	54.00	-1.84
17235.000	Peak	31.93	28.13	60.06	68.20	-8.14

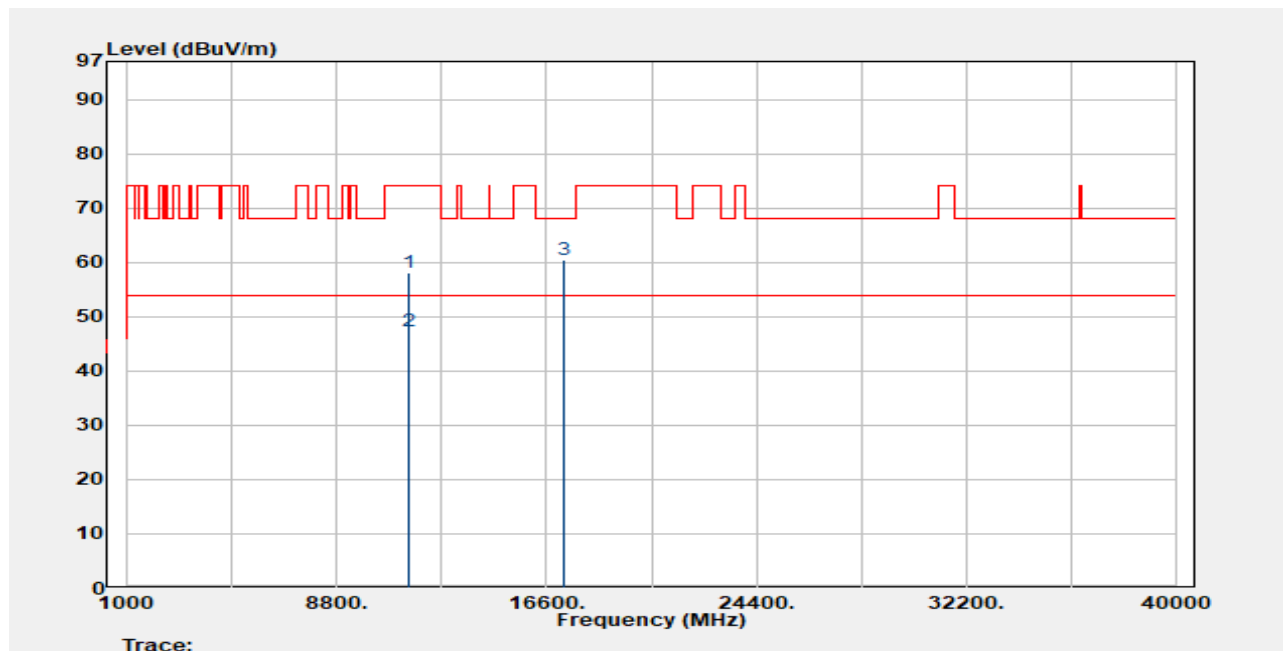
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Report Number :ER-2021-90006
Operation Mode :802.11a
Test Frequency :5745 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Horizontal
Engineer :Jack Liu



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	35.95	22.21	58.16	74.00	-15.84
11490.000	Average	25.23	22.21	47.44	54.00	-6.56
17235.000	Peak	32.33	28.20	60.53	68.20	-7.67

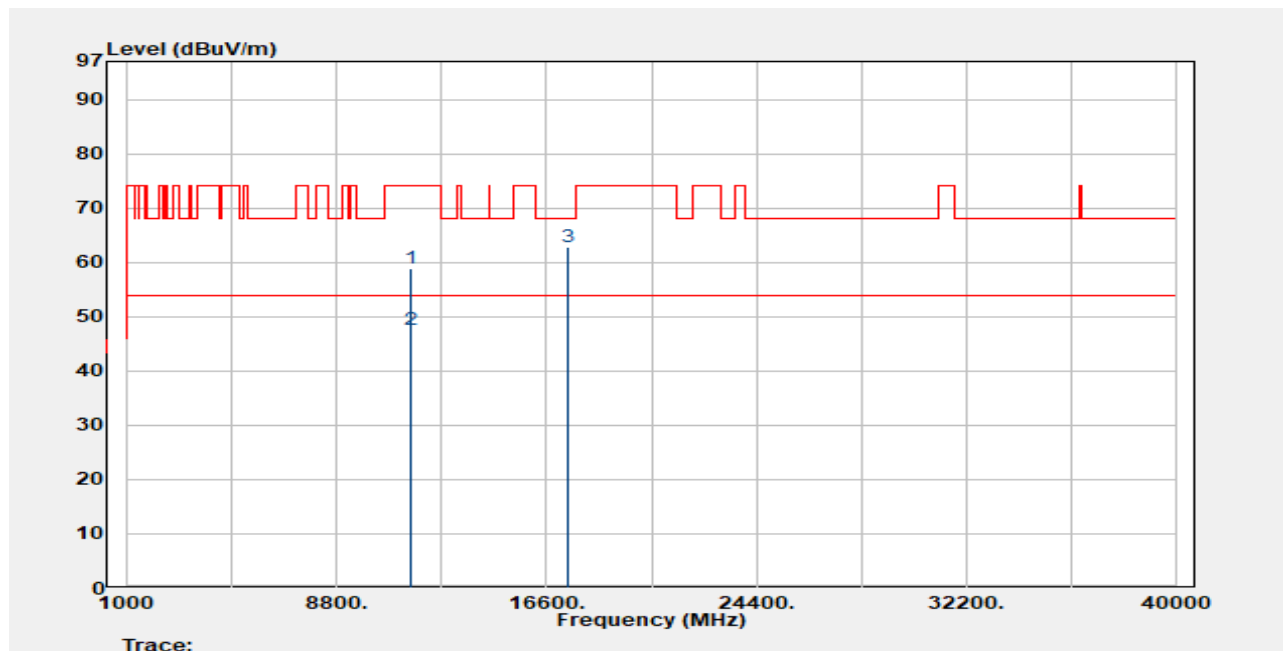
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.000	Peak	37.79	21.18	58.97	74.00	-15.03
11570.000	Average	26.51	21.18	47.69	54.00	-6.31
17355.000	Peak	32.98	29.74	62.72	68.20	-5.48

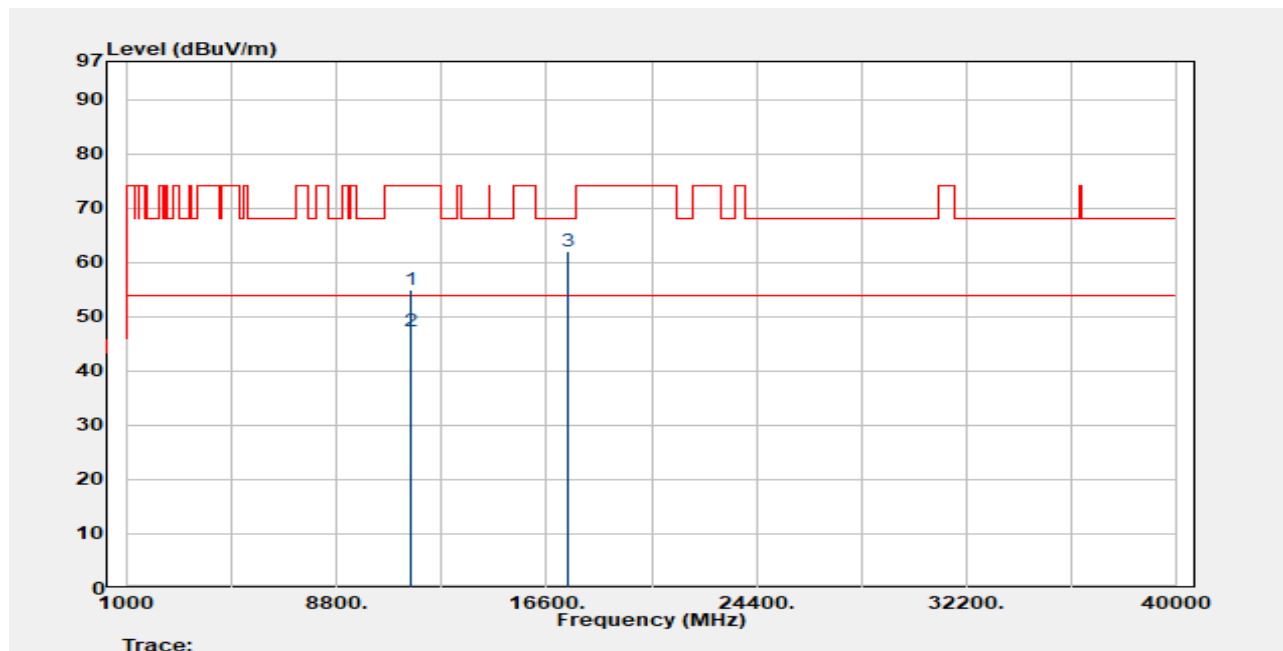
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.000	Peak	33.30	21.72	55.02	74.00	-18.98
11570.000	Average	25.49	21.72	47.21	54.00	-6.79
17355.000	Peak	33.15	28.99	62.14	68.20	-6.06

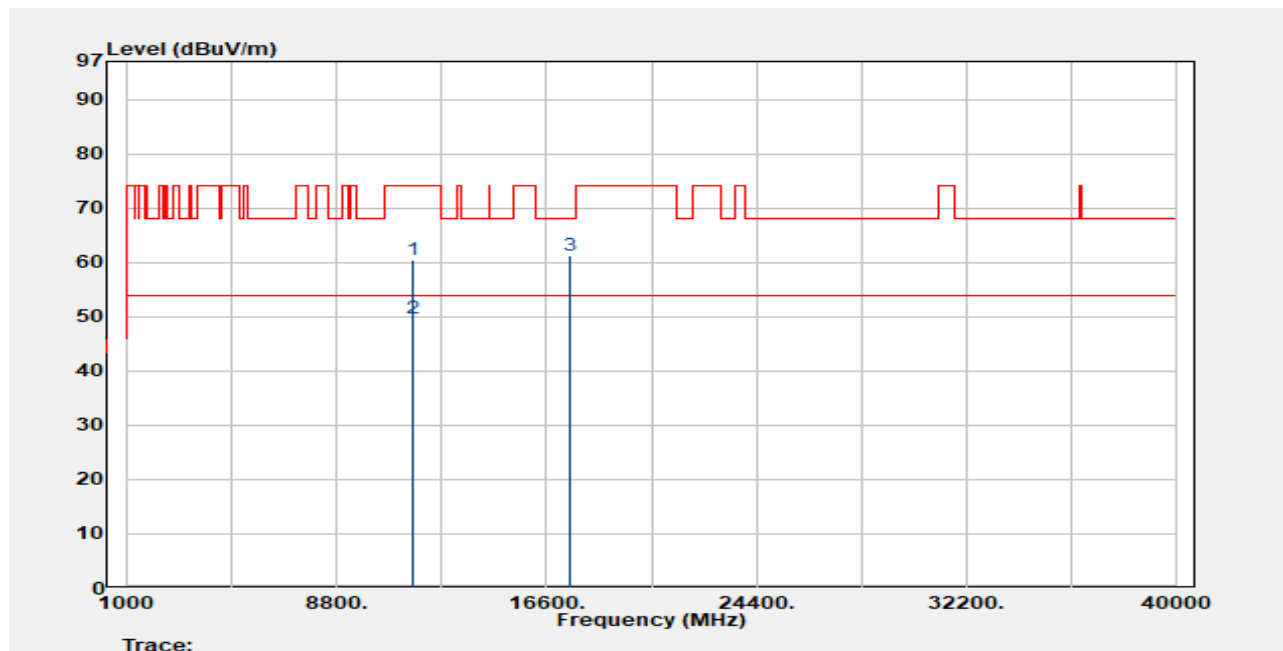
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	38.84	21.71	60.55	74.00	-13.45
11650.000	Average	27.92	21.71	49.63	54.00	-4.37
17475.000	Peak	31.66	29.72	61.38	68.20	-6.82

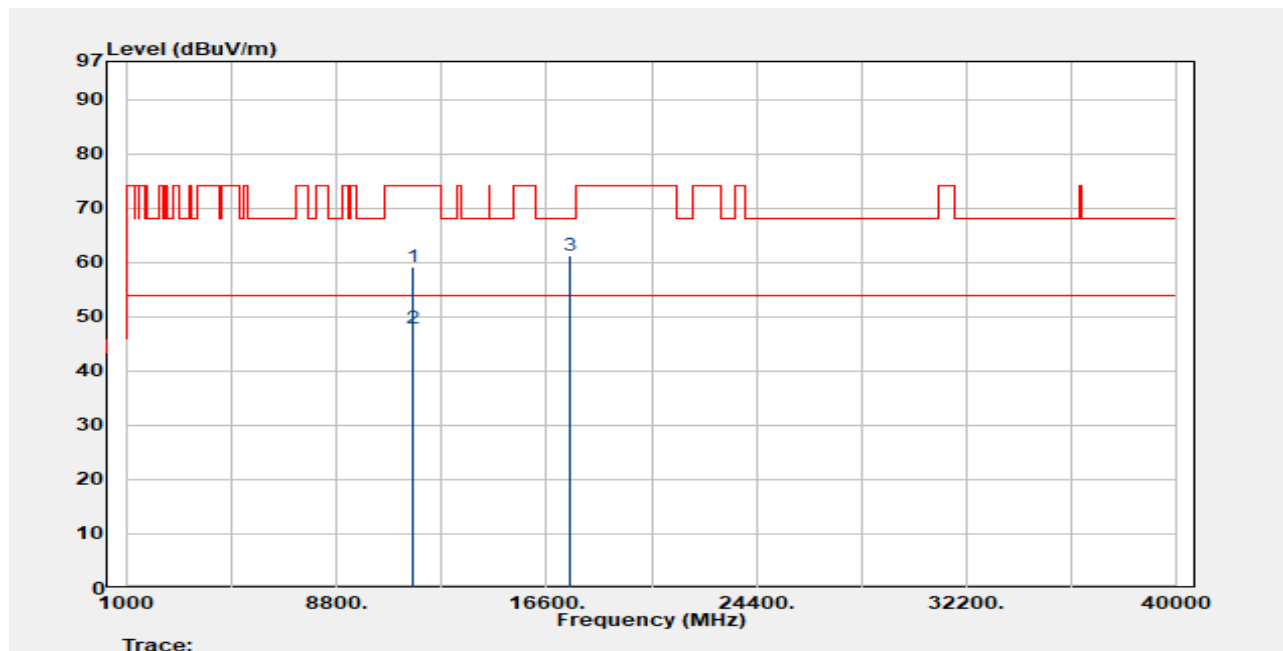
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Report Number :ER-2021-90006
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	37.60	21.47	59.07	74.00	-14.93
11650.000	Average	26.41	21.47	47.88	54.00	-6.12
17475.000	Peak	31.89	29.31	61.20	68.20	-7.00

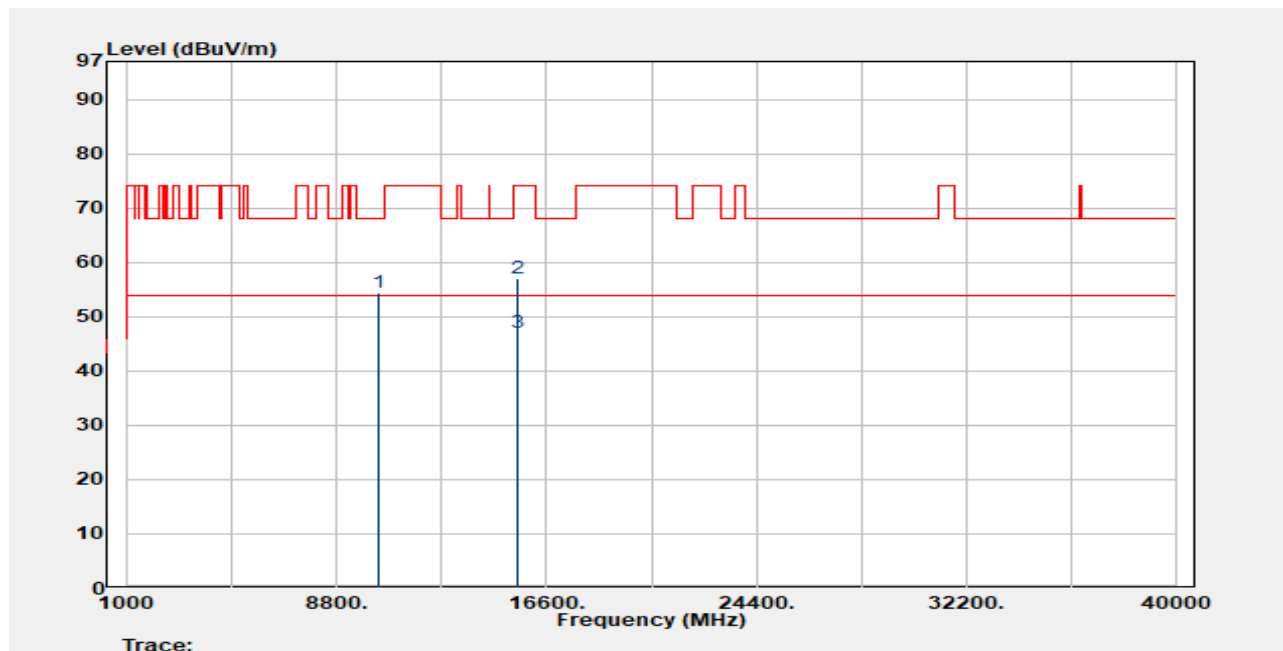
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.000	Peak	33.94	20.53	54.47	68.20	-13.73
15540.000	Peak	33.72	23.22	56.95	74.00	-17.05
15540.000	Average	23.76	23.22	46.98	54.00	-7.02

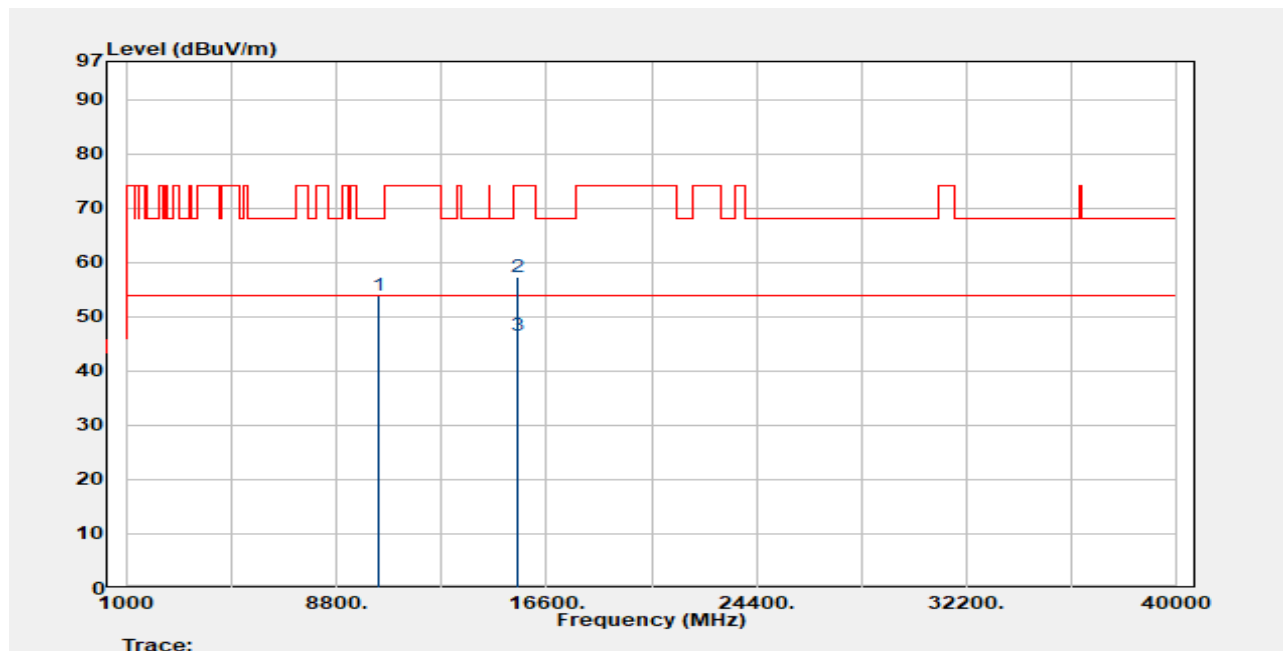
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.000	Peak	33.76	20.13	53.89	68.20	-14.31
15540.000	Peak	34.20	23.19	57.40	74.00	-16.60
15540.000	Average	23.44	23.19	46.63	54.00	-7.37

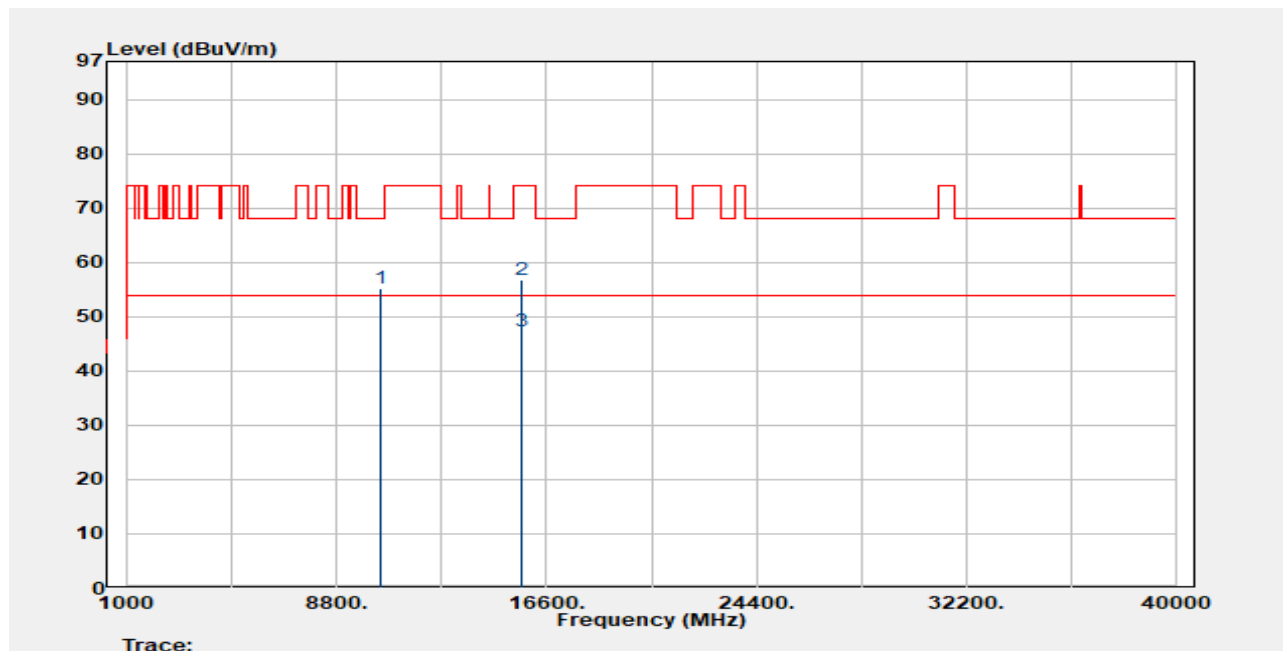
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Report Number :ER-2021-90006
Operation Mode :802.11n20
Test Frequency :5220 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Vertical
Engineer :Jack Liu



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	34.97	20.33	55.30	68.20	-12.90
15660.000	Peak	33.85	22.86	56.71	74.00	-17.29
15660.000	Average	24.56	22.86	47.42	54.00	-6.58

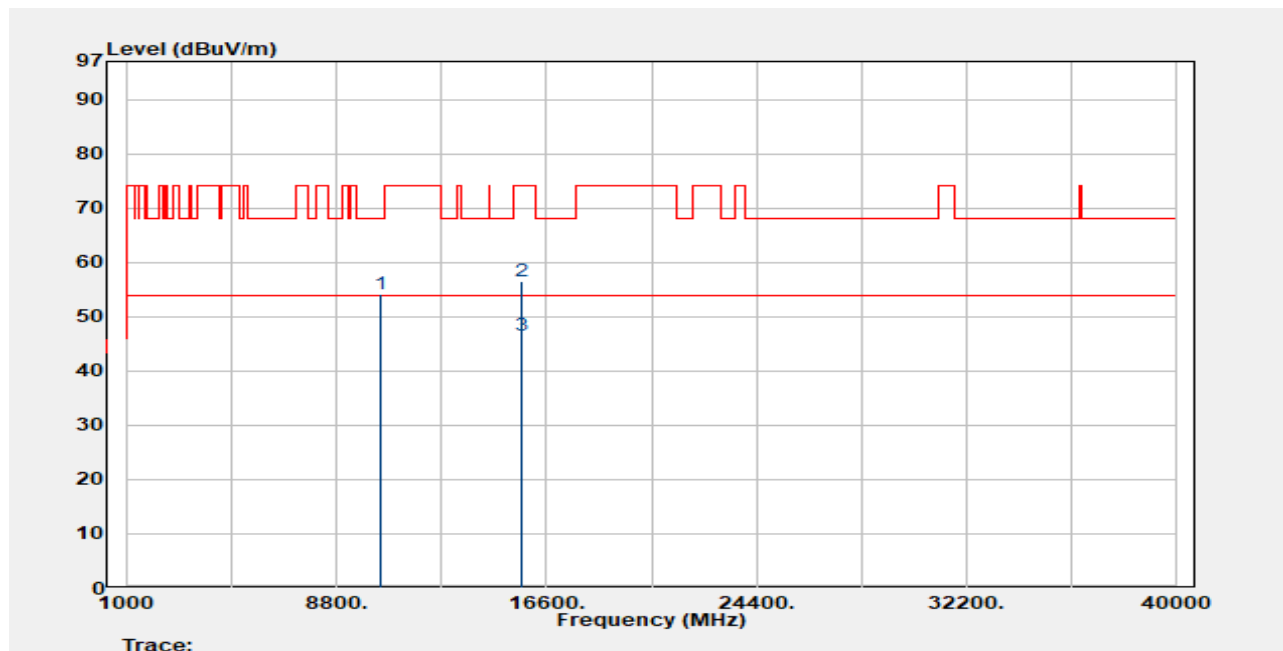
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.74	20.42	54.16	68.20	-14.04
15660.000	Peak	33.50	22.97	56.47	74.00	-17.53
15660.000	Average	23.46	22.97	46.43	54.00	-7.57

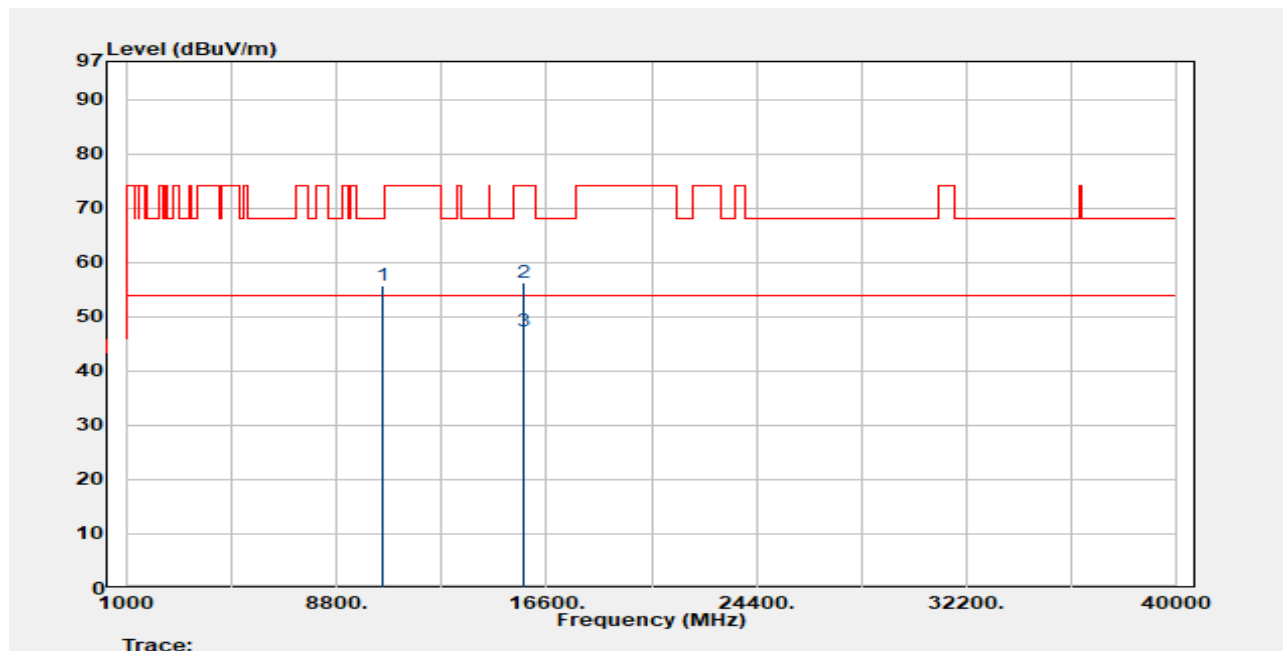
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	34.47	21.20	55.67	68.20	-12.53
15720.000	Peak	33.21	23.12	56.32	74.00	-17.68
15720.000	Average	24.32	23.12	47.44	54.00	-6.56

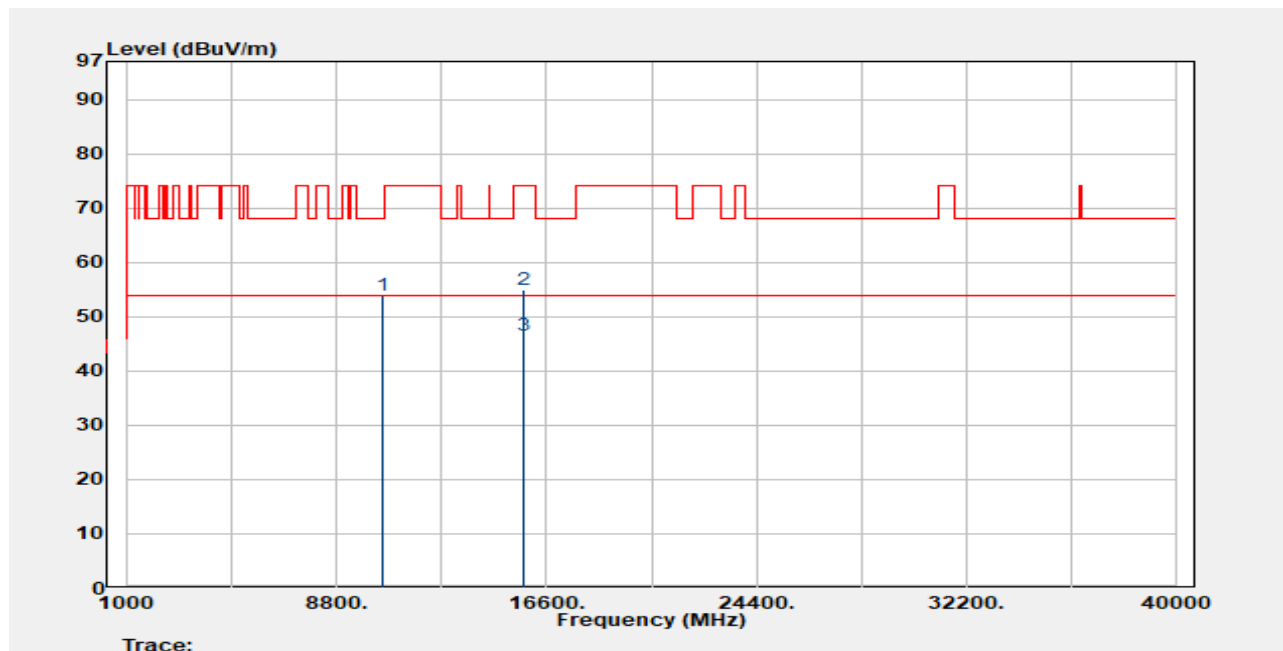
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.16	20.76	53.92	68.20	-14.28
15720.000	Peak	32.06	23.01	55.07	74.00	-18.93
15720.000	Average	23.49	23.01	46.50	54.00	-7.50

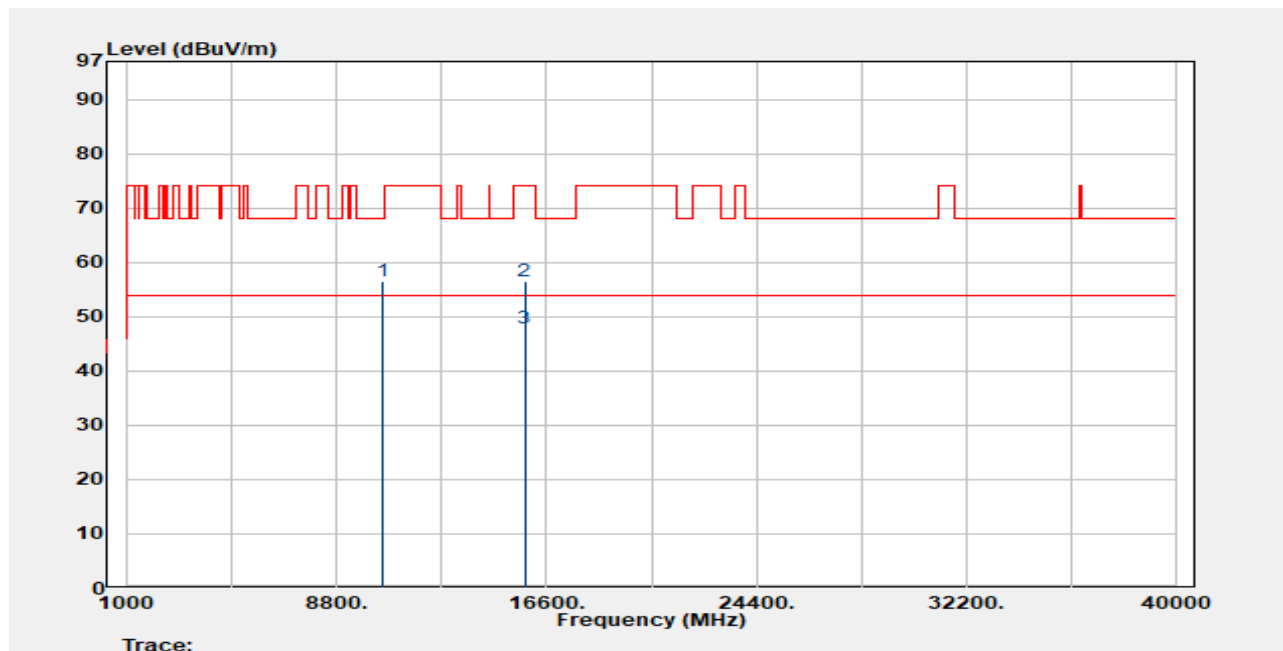
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10520.000	Peak	34.95	21.49	56.44	68.20	-11.76
15780.000	Peak	33.01	23.44	56.45	74.00	-17.55
15780.000	Average	24.51	23.44	47.95	54.00	-6.05

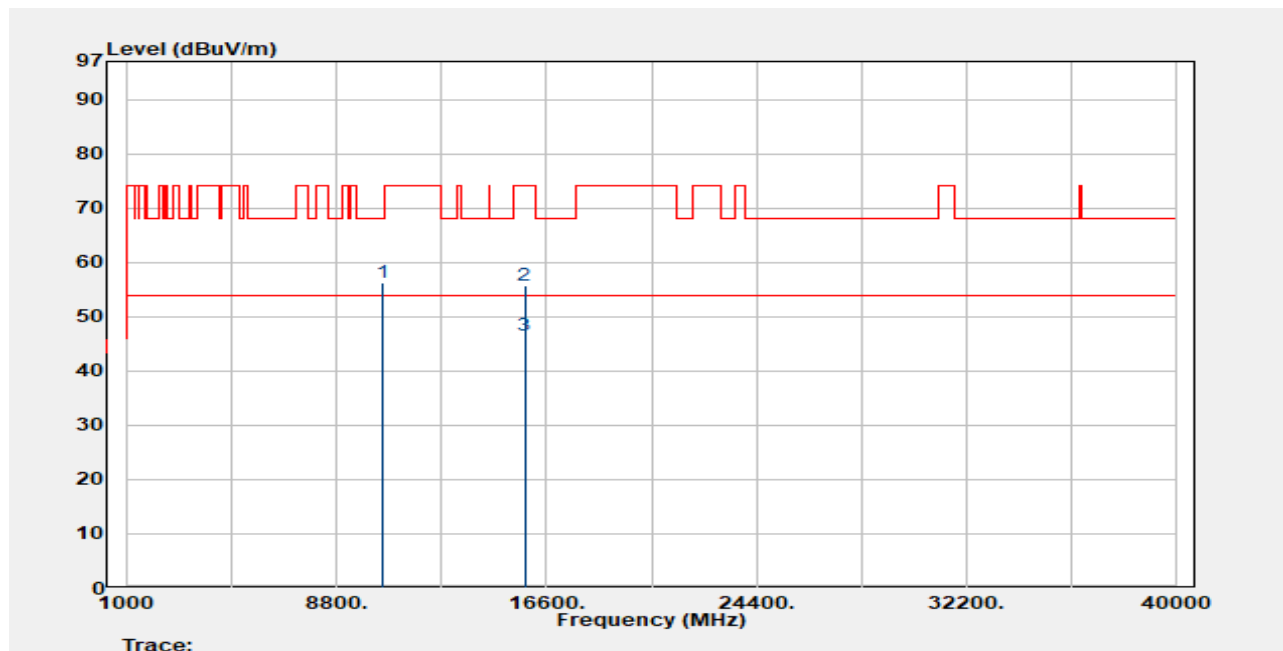
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Peak	35.36	20.87	56.23	68.20	-11.97
15780.000	Peak	32.72	23.08	55.80	74.00	-18.20
15780.000	Average	23.39	23.08	46.47	54.00	-7.53

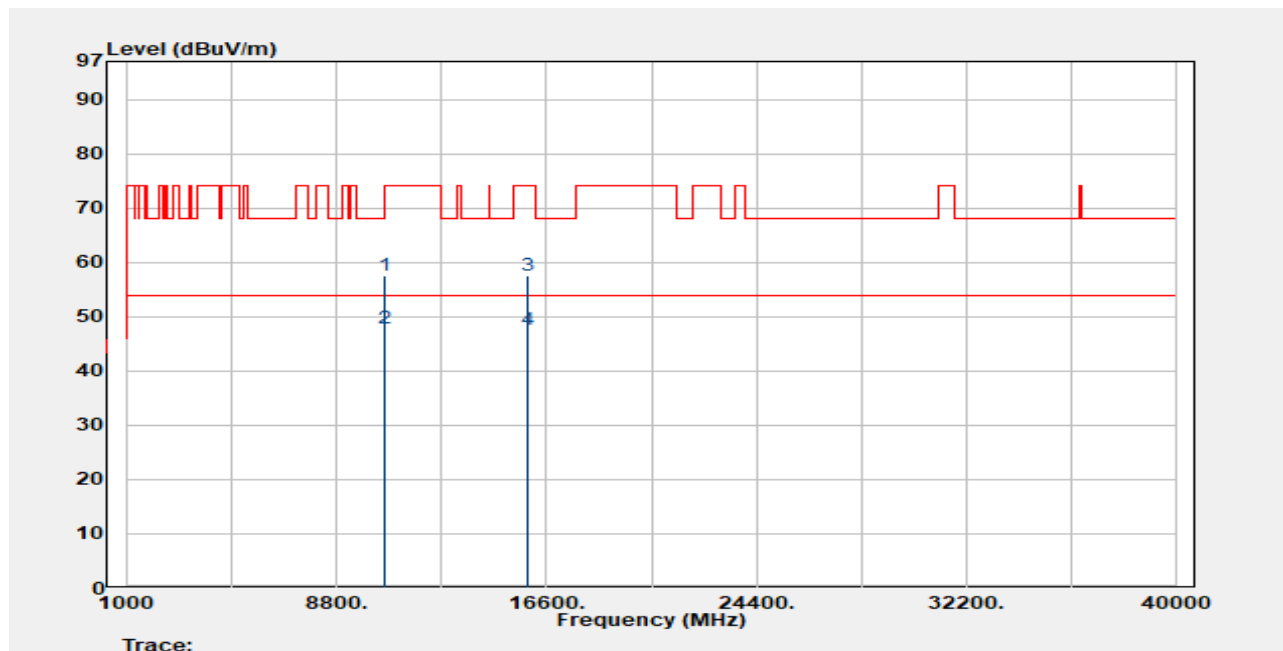
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	36.85	20.66	57.50	74.00	-16.50
10600.000	Average	27.15	20.66	47.81	54.00	-6.19
15900.000	Peak	34.73	22.90	57.63	74.00	-16.37
15900.000	Average	24.66	22.90	47.56	54.00	-6.44

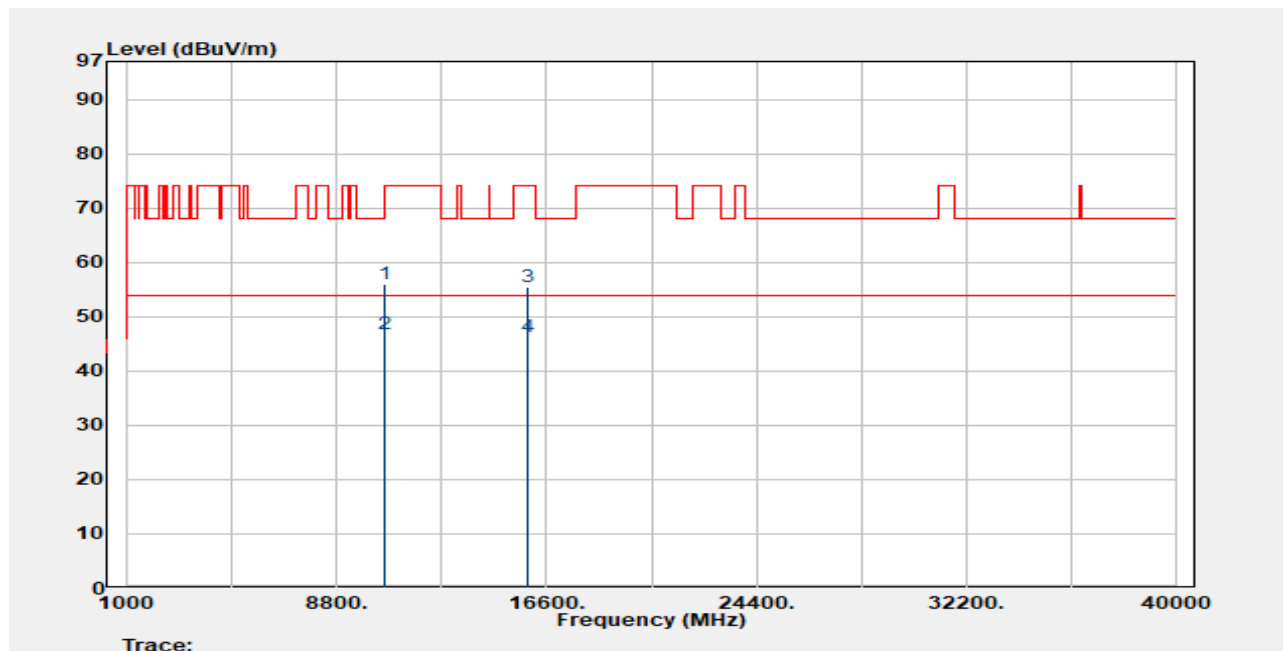
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	35.39	20.64	56.02	74.00	-17.98
10600.000	Average	26.11	20.64	46.75	54.00	-7.25
15900.000	Peak	32.31	23.03	55.34	74.00	-18.66
15900.000	Average	23.13	23.03	46.16	54.00	-7.84

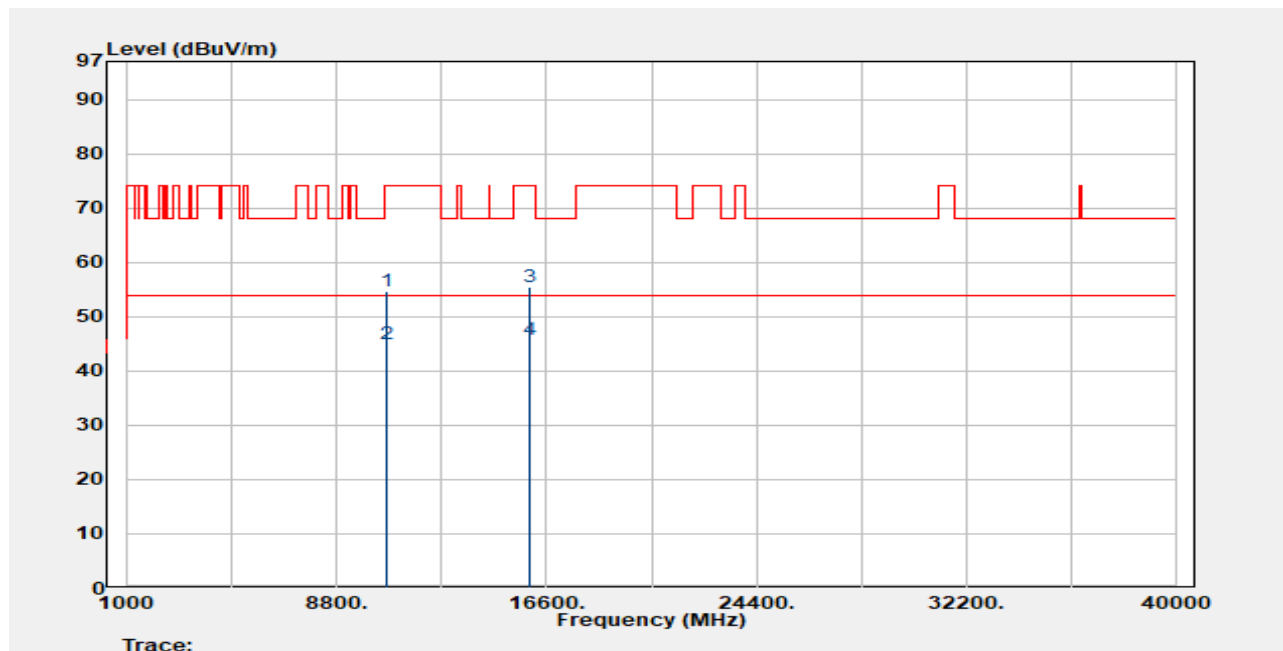
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



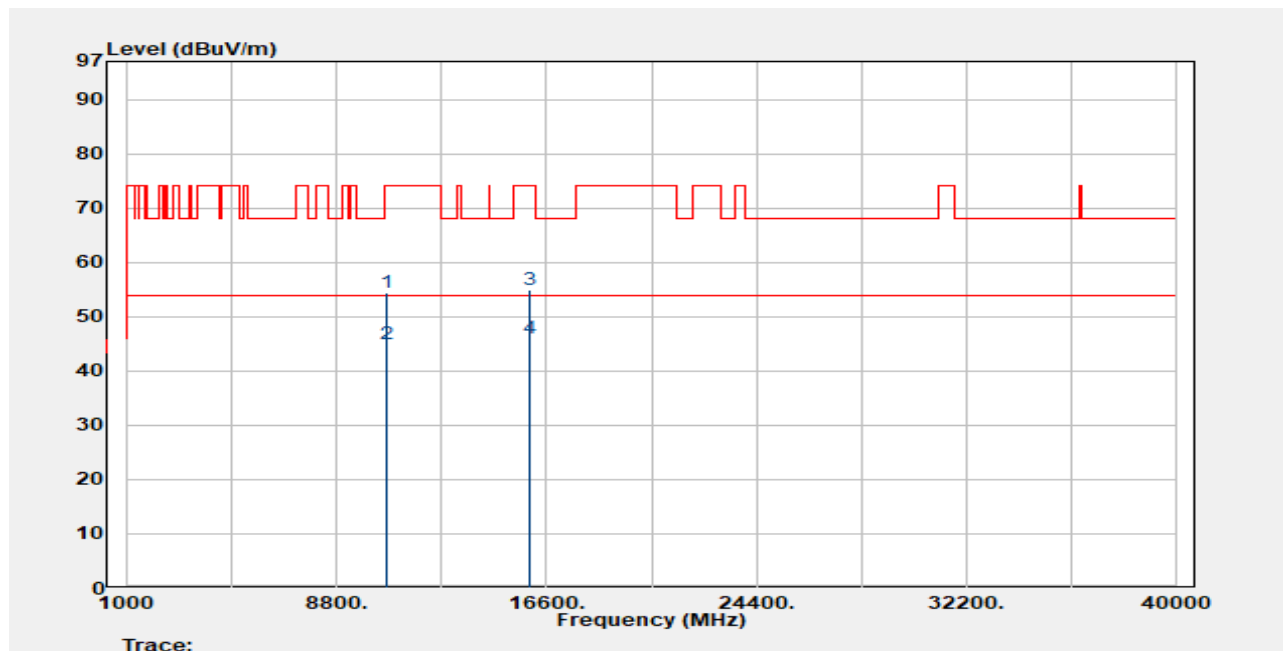
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10640.000	Peak	33.69	20.89	54.57	74.00	-19.43
10640.000	Average	24.13	20.89	45.02	54.00	-8.98
15960.000	Peak	33.39	22.07	55.46	74.00	-18.54
15960.000	Average	23.68	22.07	45.75	54.00	-8.25

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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



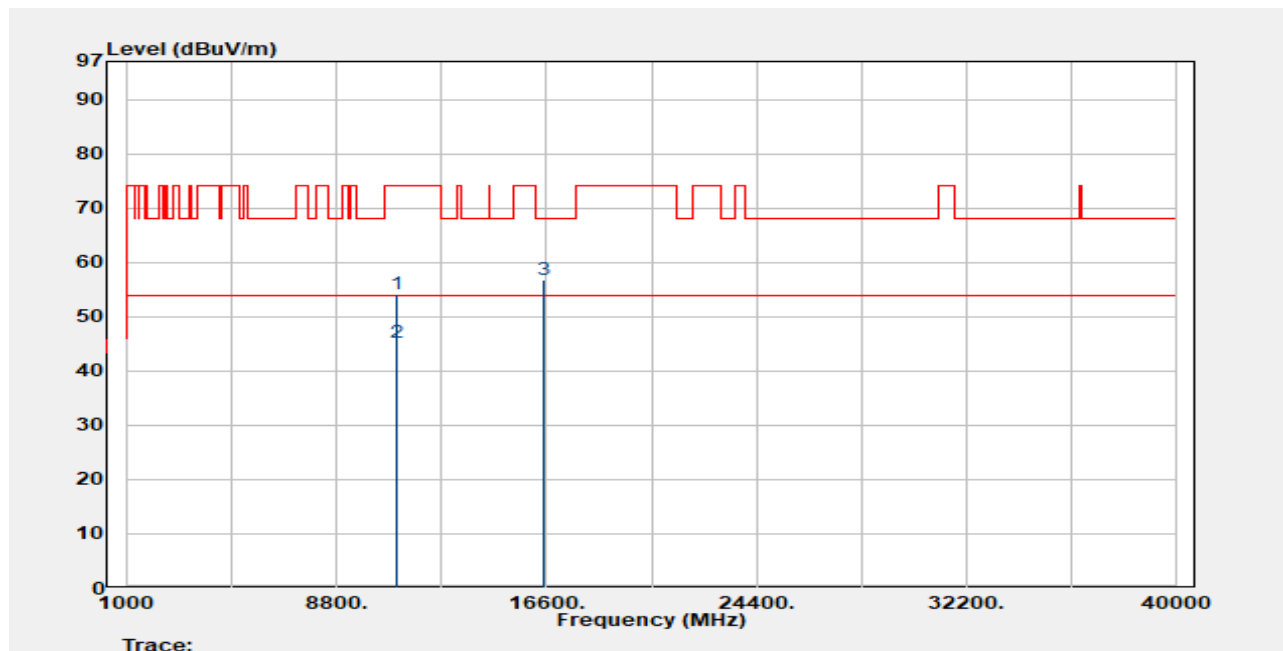
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10640.000	Peak	33.58	20.77	54.35	74.00	-19.65
10640.000	Average	24.06	20.77	44.83	54.00	-9.17
15960.000	Peak	32.25	22.59	54.84	74.00	-19.16
15960.000	Average	23.52	22.59	46.11	54.00	-7.89

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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	33.46	20.81	54.27	74.00	-19.73
11000.000	Average	24.32	20.81	45.13	54.00	-8.87
16500.000	Peak	31.89	24.95	56.84	68.20	-11.36

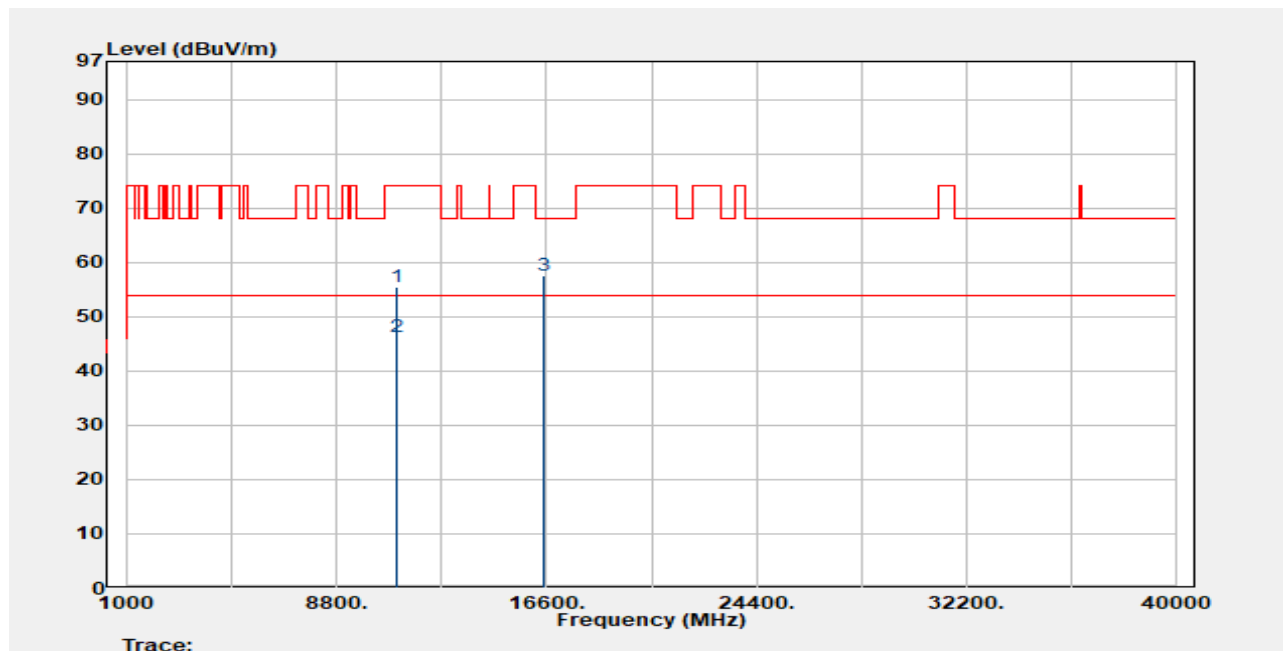
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.28	22.24	55.52	74.00	-18.48
11000.000	Average	24.11	22.24	46.35	54.00	-7.65
16500.000	Peak	32.37	25.33	57.70	68.20	-10.50

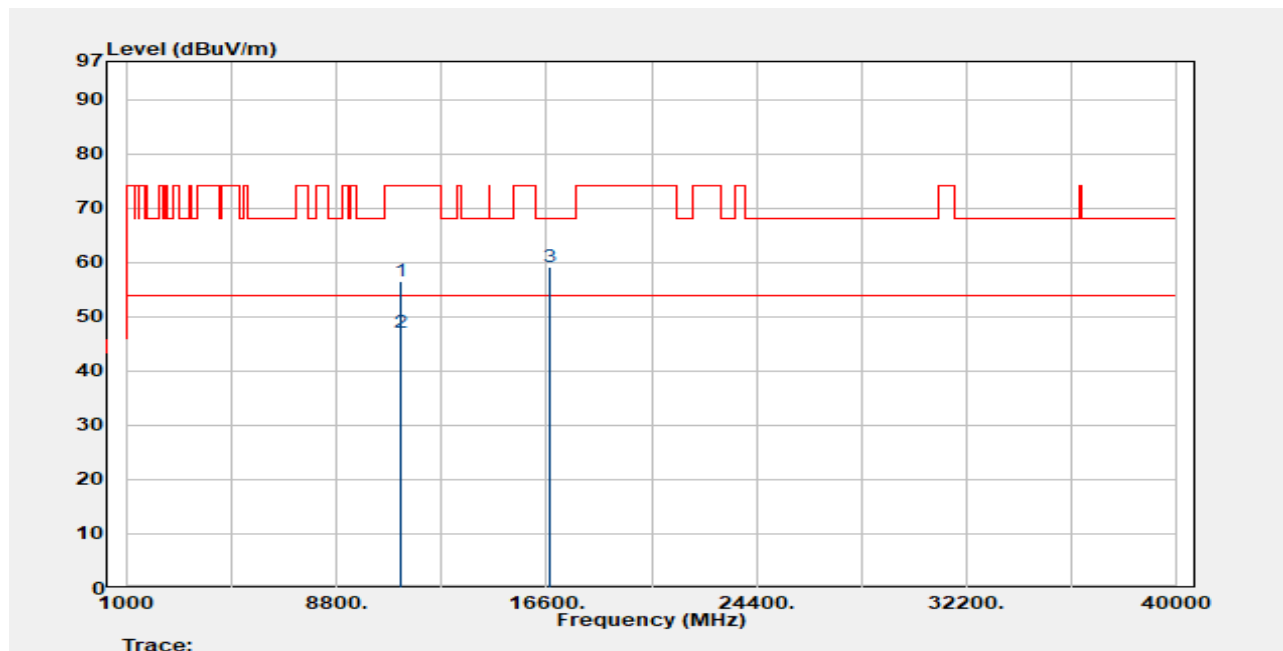
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	34.94	21.59	56.53	74.00	-17.47
11160.000	Average	25.36	21.59	46.95	54.00	-7.05
16740.000	Peak	31.70	27.42	59.11	68.20	-9.09

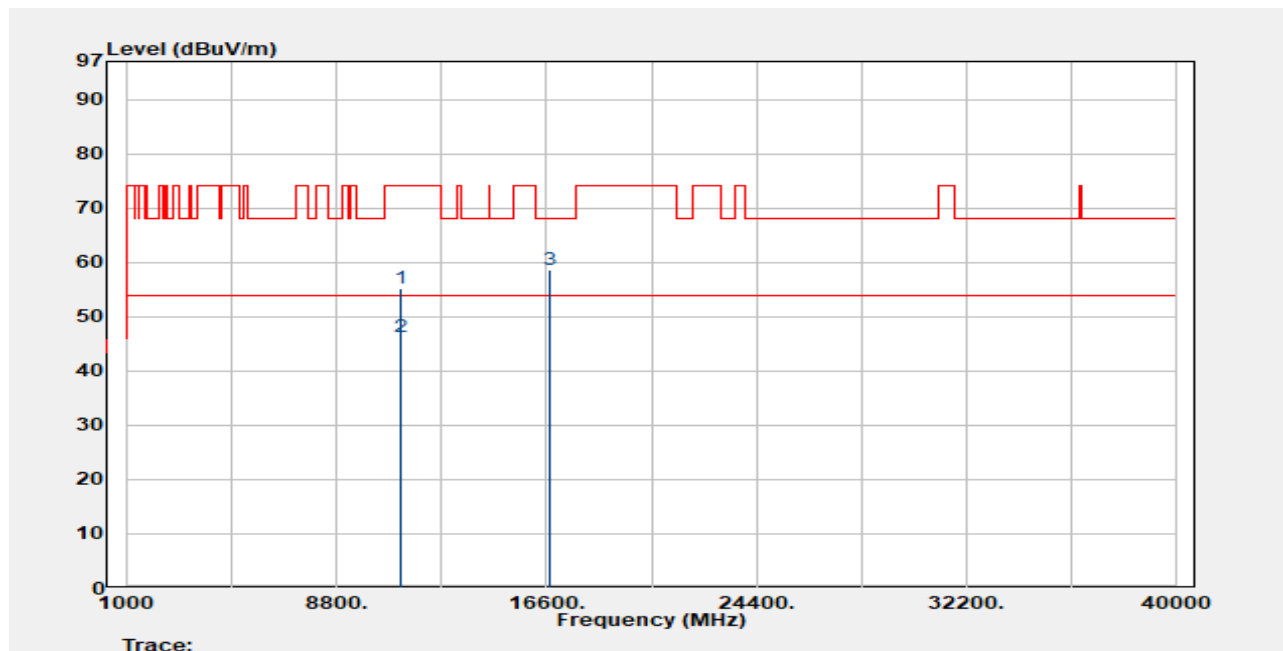
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.64	21.48	55.13	74.00	-18.87
11160.000	Average	24.79	21.48	46.27	54.00	-7.73
16740.000	Peak	31.51	27.01	58.52	68.20	-9.68

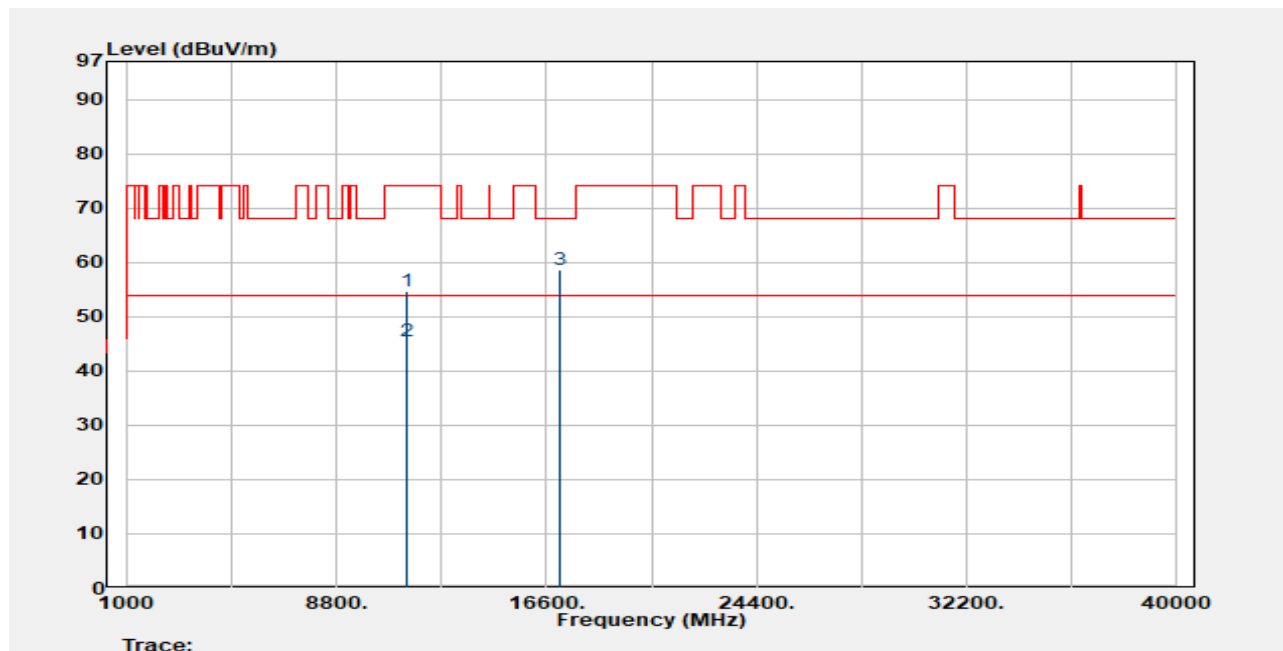
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Report Number :ER-2021-90006
Operation Mode :802.11n20
Test Frequency :5700 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-22
Temp./Humi. :25.2/62
Antenna Pol. :Vertical
Engineer :Jack Liu



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	33.81	20.80	54.61	74.00	-19.39
11400.000	Average	24.55	20.80	45.35	54.00	-8.65
17100.000	Peak	31.85	26.77	58.62	68.20	-9.58

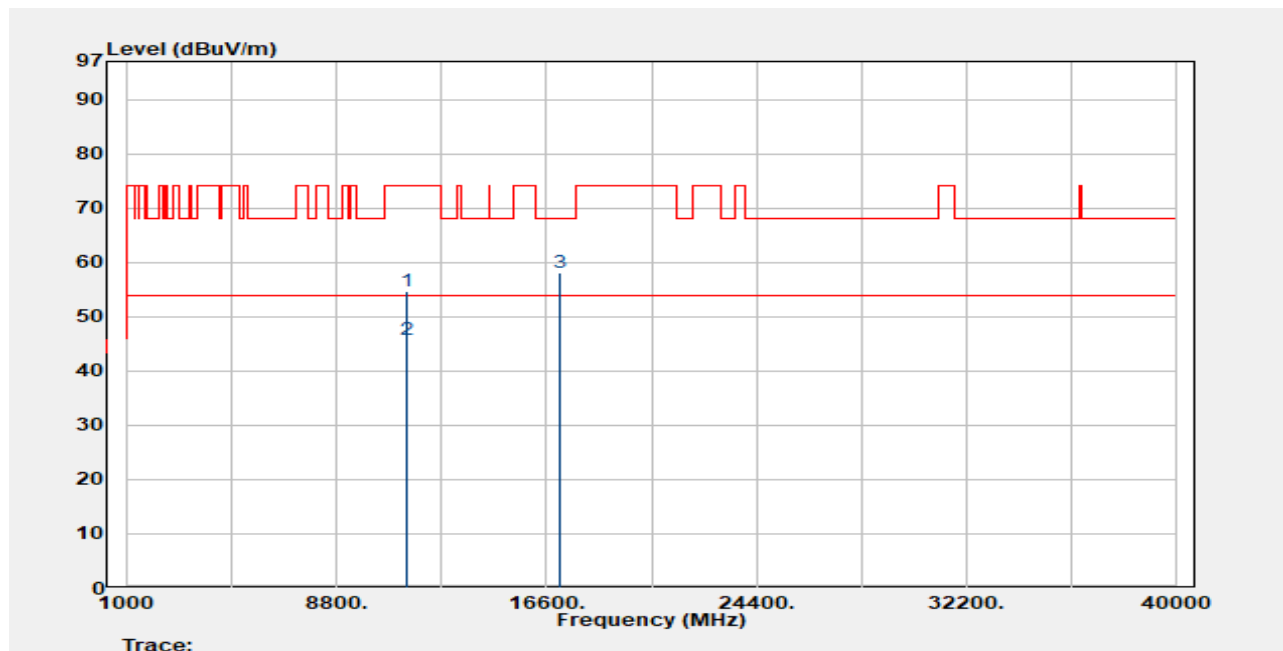
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	32.96	21.83	54.79	74.00	-19.21
11400.000	Average	23.89	21.83	45.72	54.00	-8.28
17100.000	Peak	30.99	27.23	58.22	68.20	-9.98

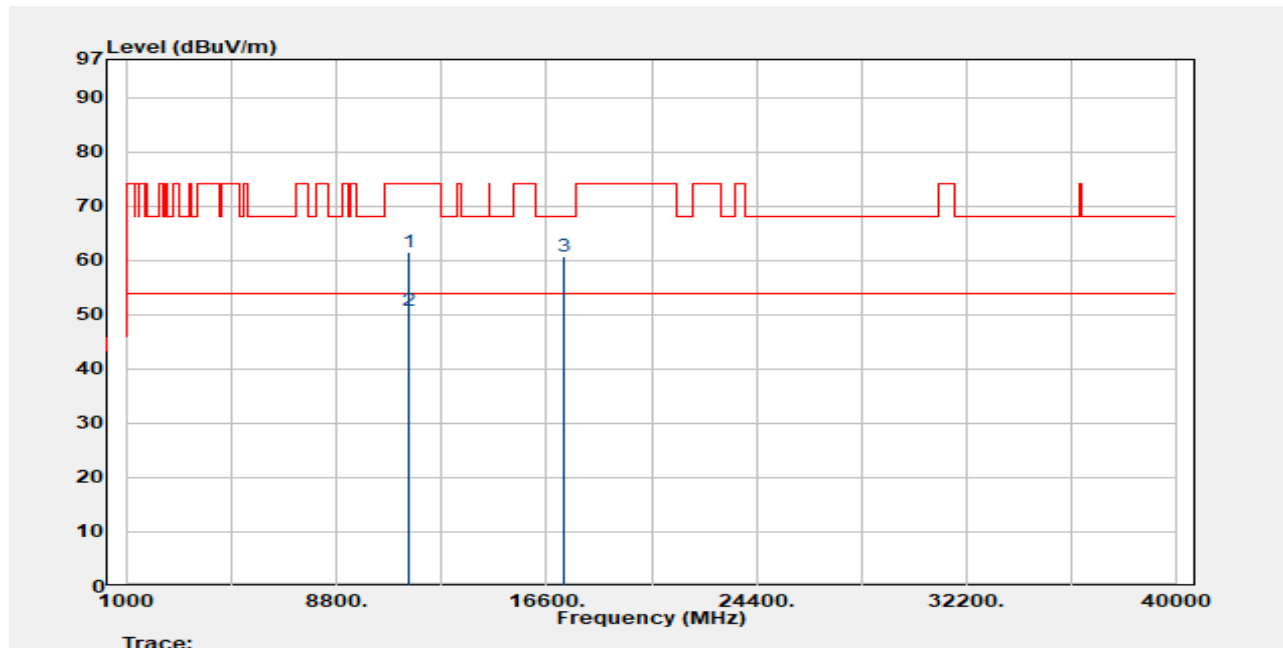
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	37.66	23.98	61.64	74.00	-12.36
11490.000	Average	26.85	23.98	50.83	54.00	-3.17
17235.000	Peak	32.70	28.13	60.83	68.20	-7.37

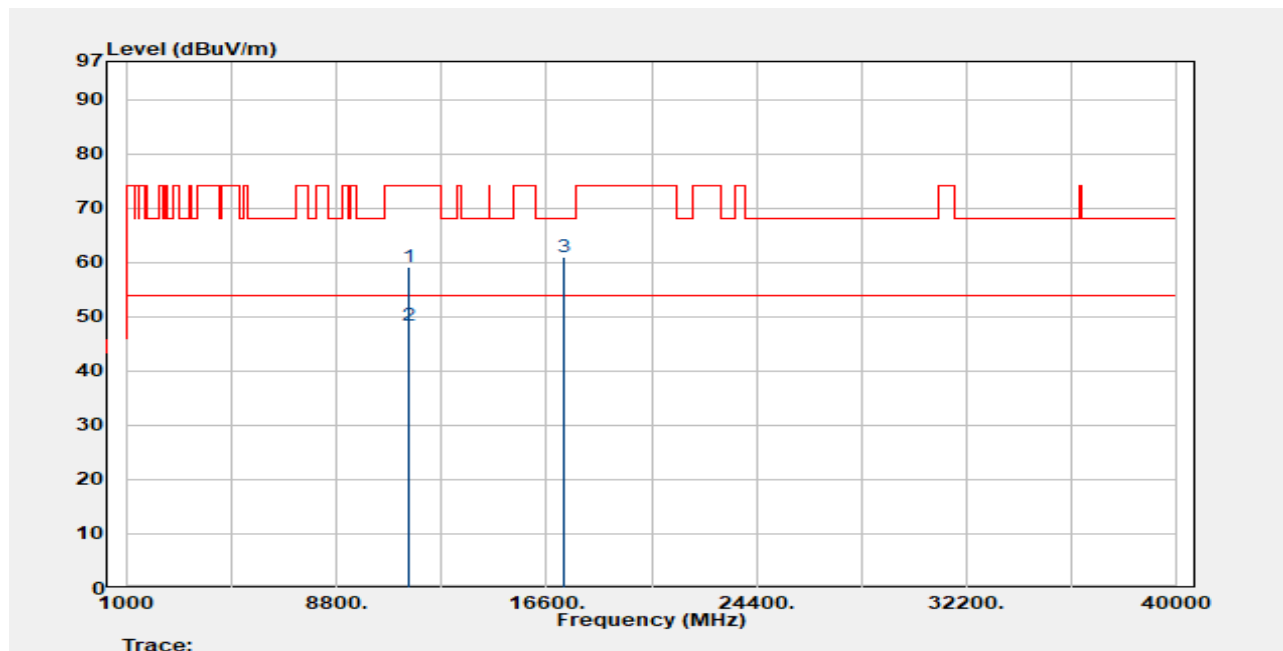
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	36.89	22.21	59.10	74.00	-14.90
11490.000	Average	26.07	22.21	48.28	54.00	-5.72
17235.000	Peak	32.87	28.20	61.06	68.20	-7.14

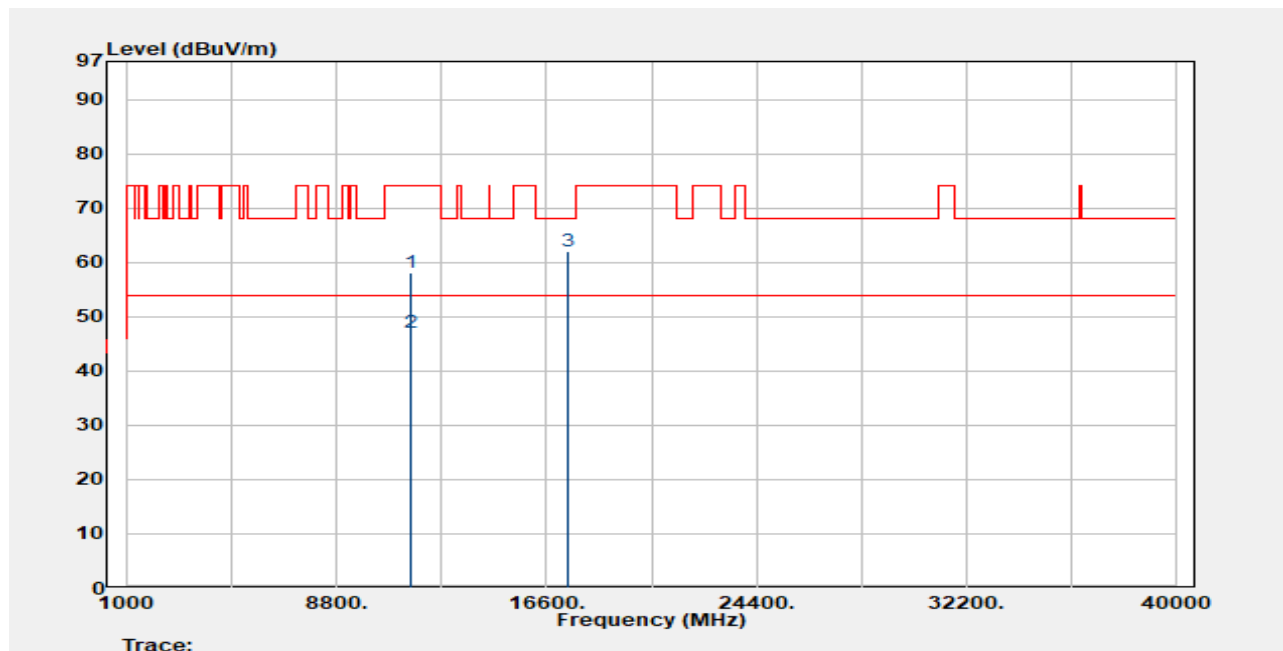
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.000	Peak	36.95	21.18	58.13	74.00	-15.87
11570.000	Average	25.74	21.18	46.92	54.00	-7.08
17355.000	Peak	32.20	29.74	61.94	68.20	-6.26

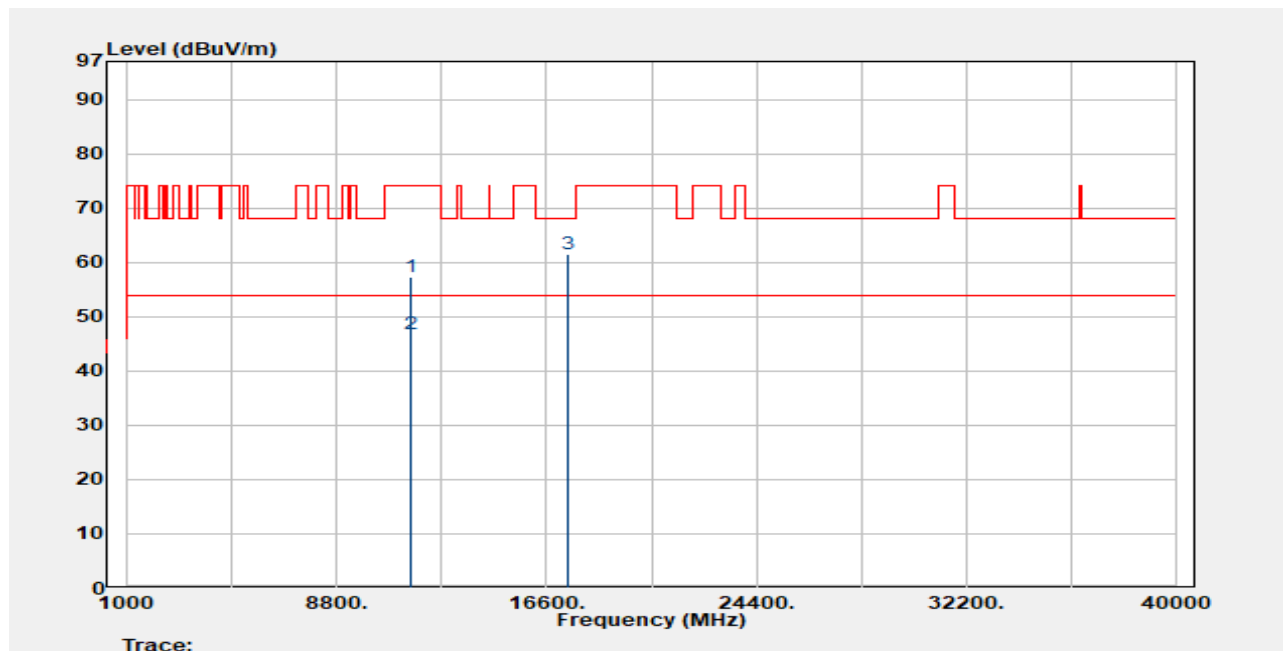
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11570.000	Peak	35.57	21.72	57.29	74.00	-16.71
11570.000	Average	25.12	21.72	46.84	54.00	-7.16
17355.000	Peak	32.40	28.99	61.39	68.20	-6.81

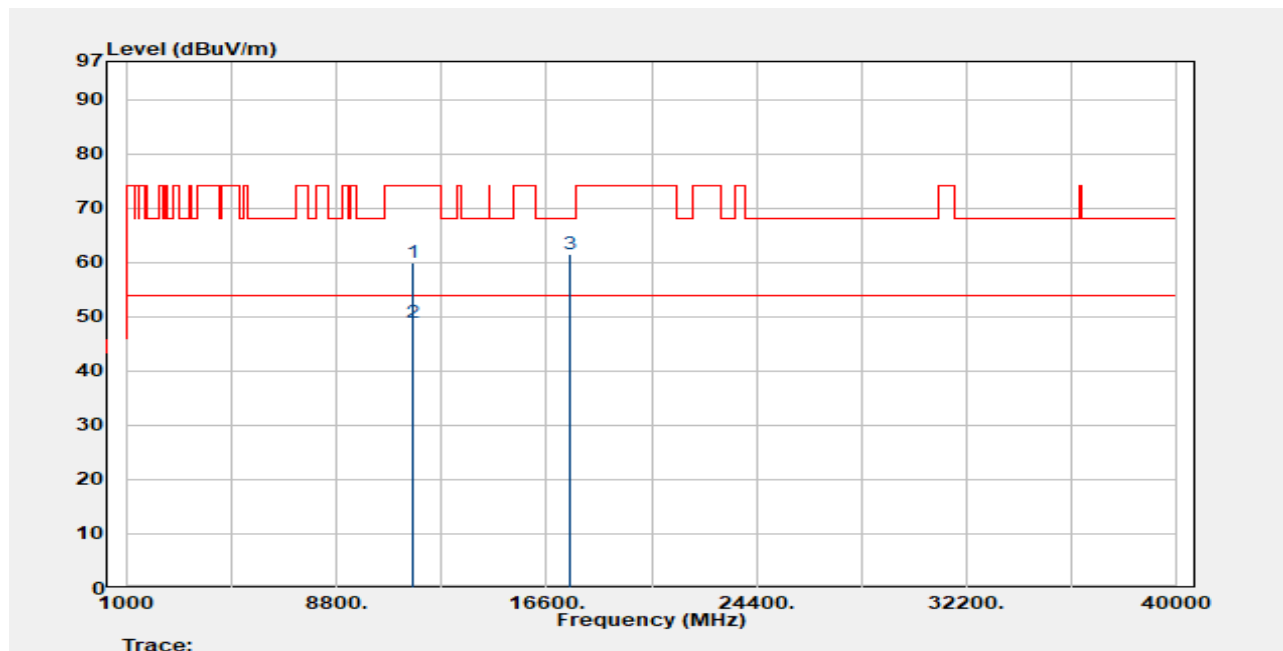
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	38.10	21.71	59.81	74.00	-14.19
11650.000	Average	27.14	21.71	48.85	54.00	-5.15
17475.000	Peak	31.88	29.72	61.59	68.20	-6.61

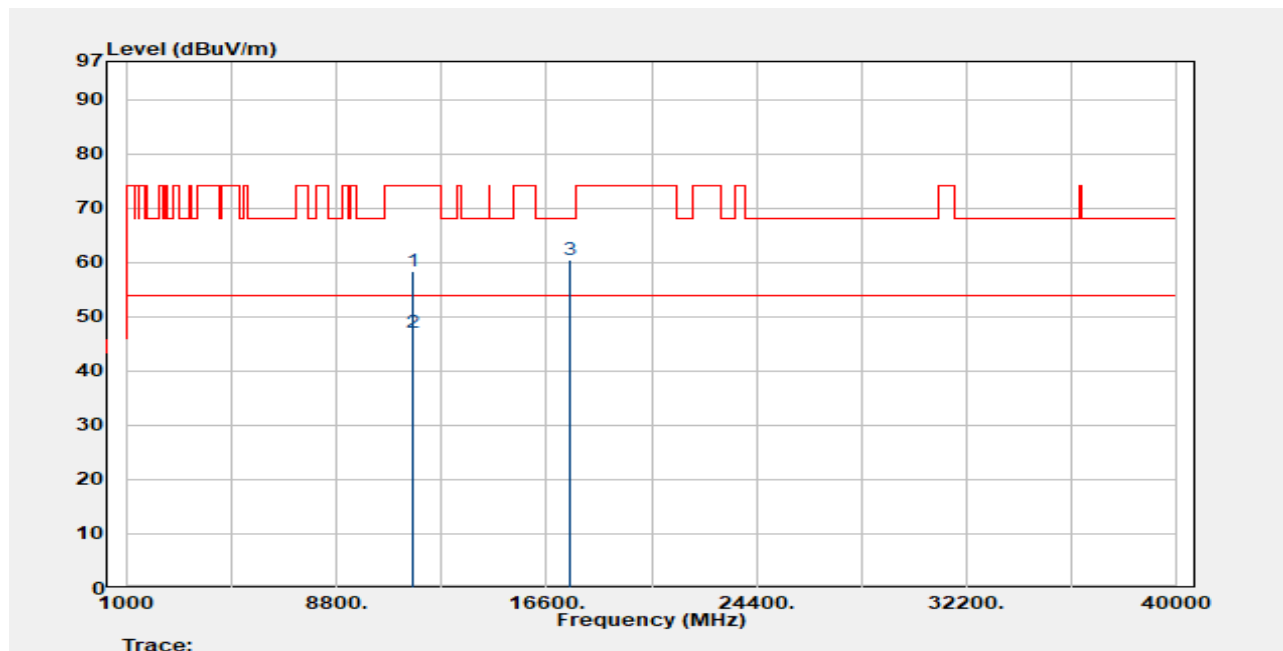
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Report Number :ER-2021-90006
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	36.76	21.47	58.23	74.00	-15.77
11650.000	Average	25.69	21.47	47.16	54.00	-6.84
17475.000	Peak	31.23	29.31	60.54	68.20	-7.66

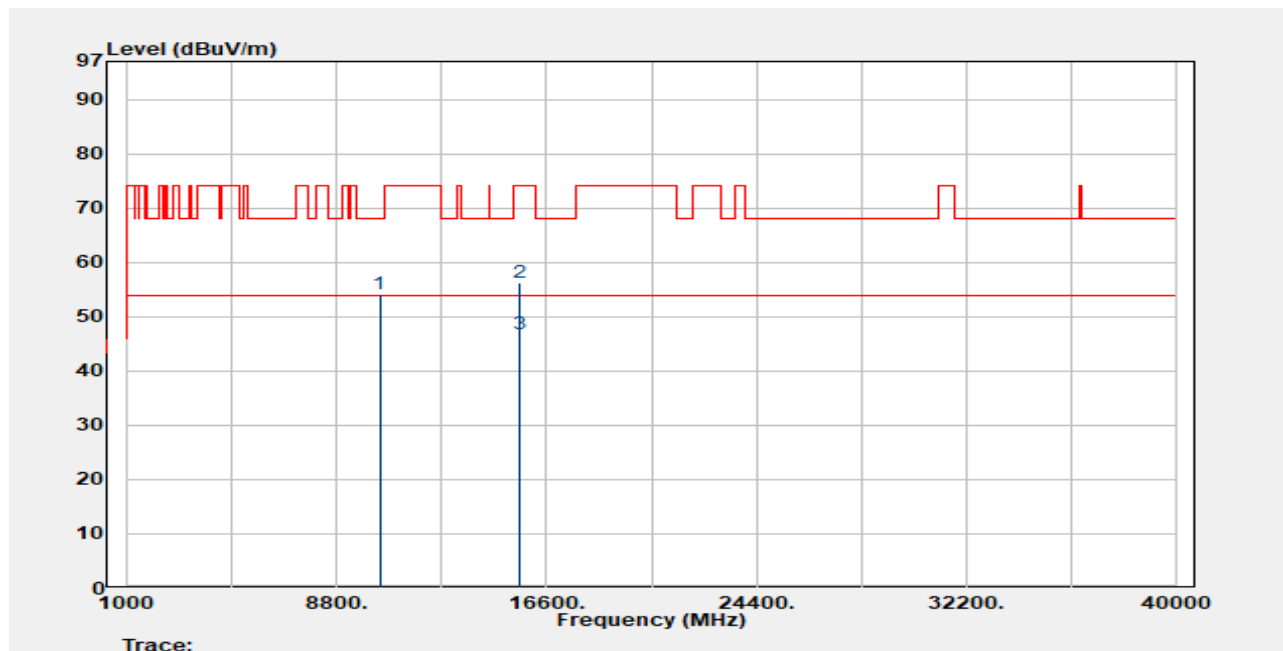
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.000	Peak	33.82	20.41	54.23	68.20	-13.97
15570.000	Peak	32.96	23.17	56.14	74.00	-17.86
15570.000	Average	23.52	23.17	46.69	54.00	-7.31

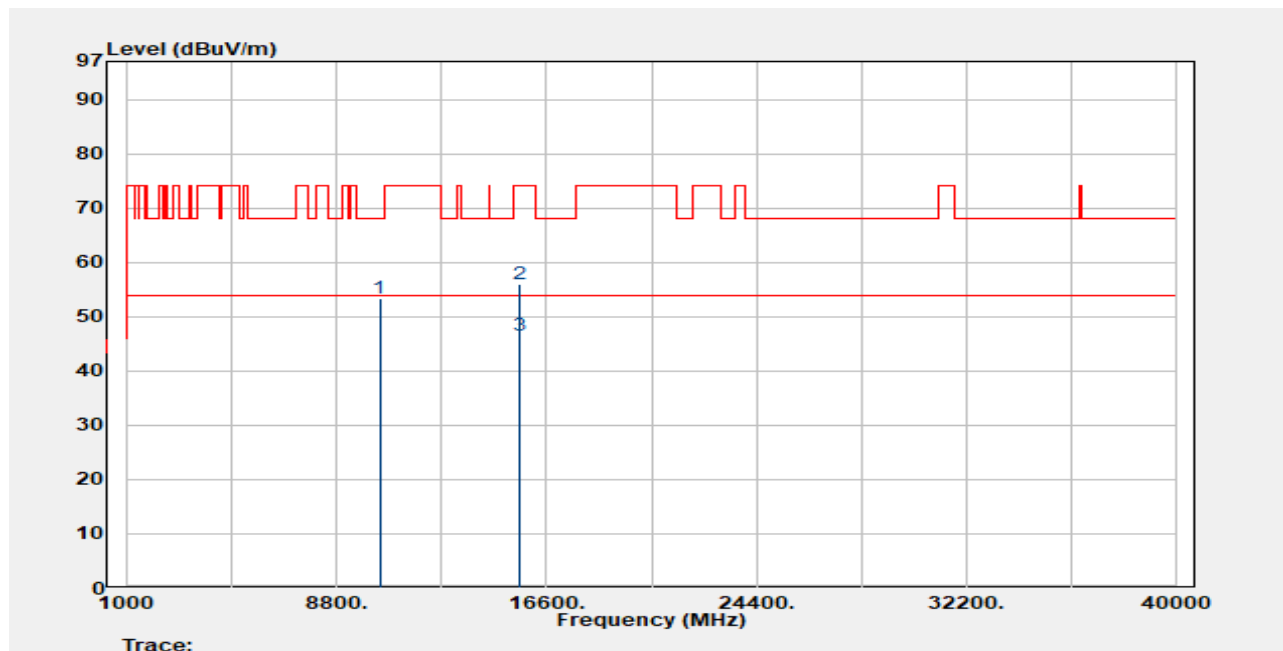
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.000	Peak	33.25	20.10	53.35	68.20	-14.85
15570.000	Peak	32.84	23.07	55.92	74.00	-18.08
15570.000	Average	23.38	23.07	46.45	54.00	-7.55

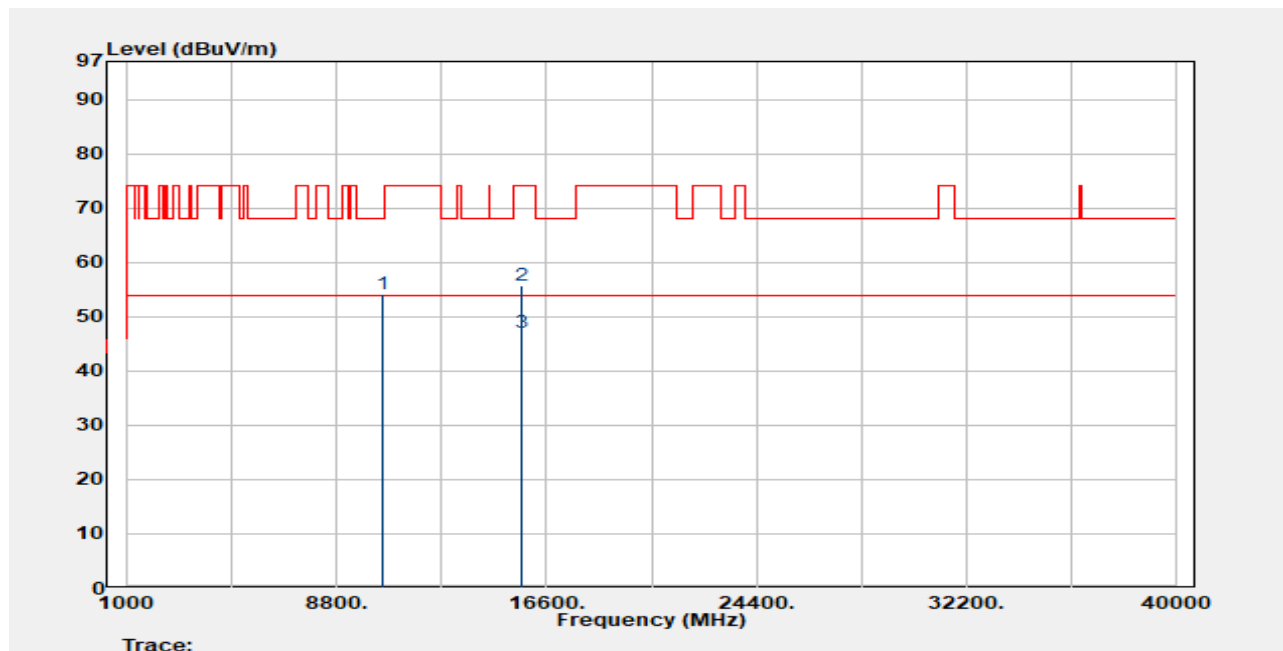
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	33.54	20.63	54.17	68.20	-14.03
15690.000	Peak	32.73	22.90	55.63	74.00	-18.37
15690.000	Average	24.22	22.90	47.12	54.00	-6.88

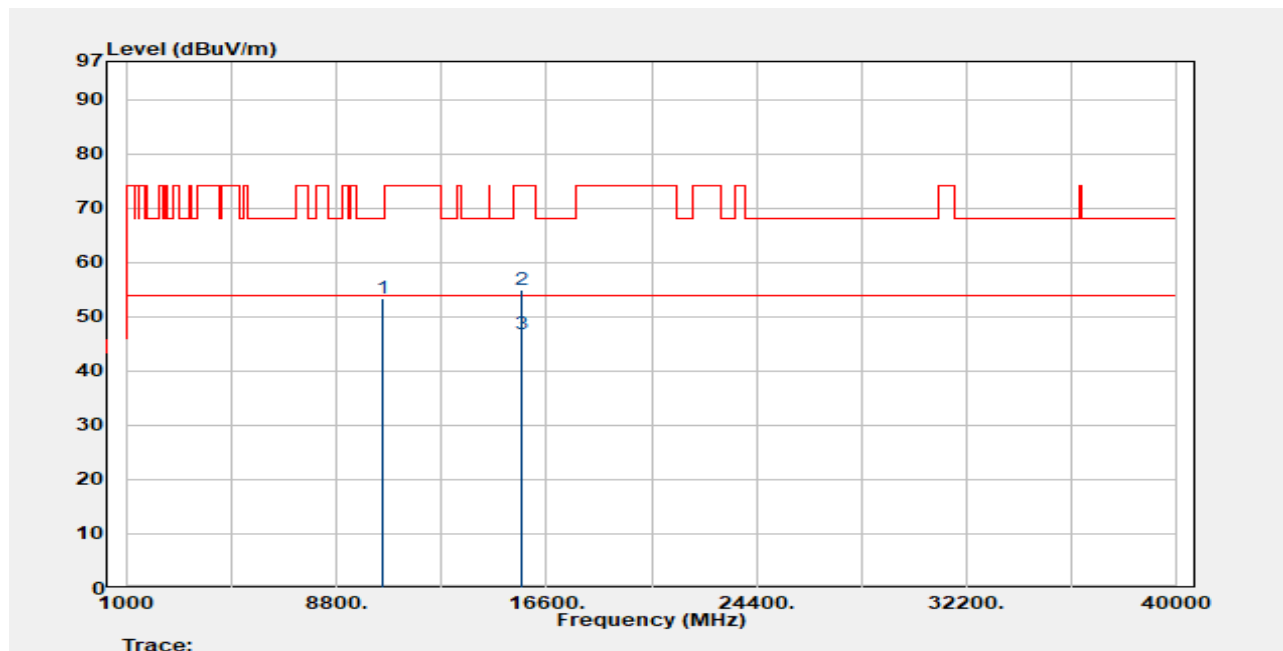
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.000	Peak	32.82	20.59	53.40	68.20	-14.80
15690.000	Peak	31.93	22.98	54.91	74.00	-19.09
15690.000	Average	23.77	22.98	46.75	54.00	-7.25

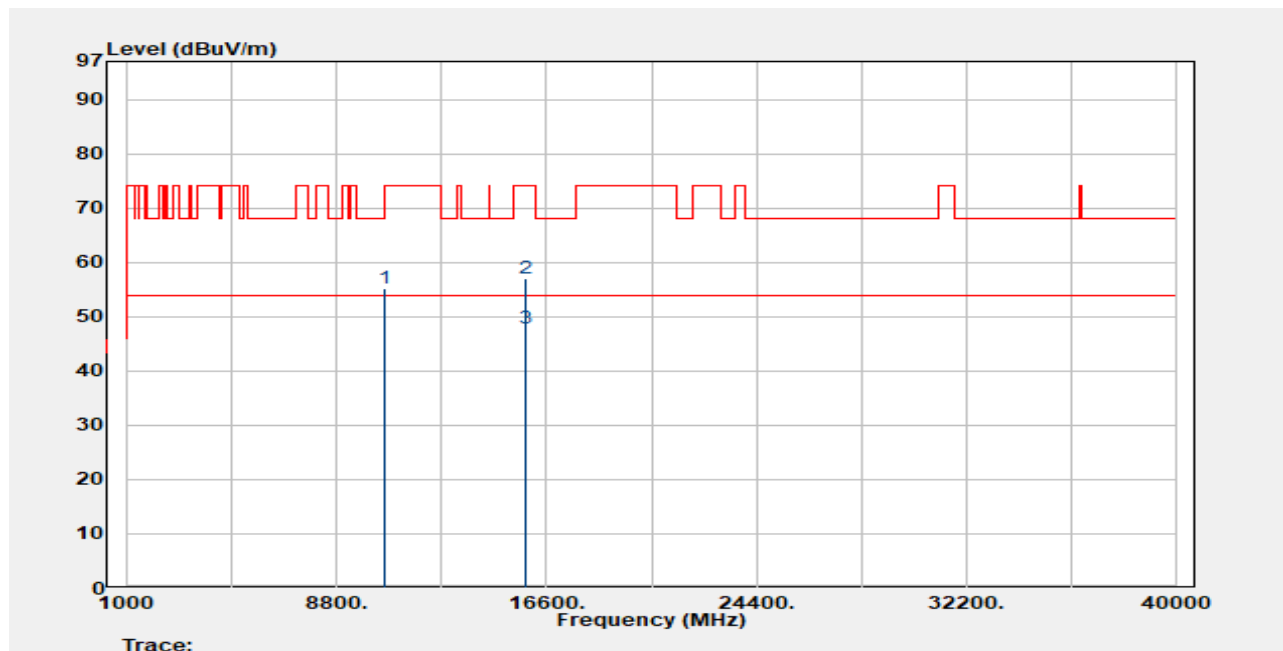
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	34.01	21.21	55.22	68.20	-12.98
15810.000	Peak	33.55	23.48	57.03	74.00	-16.97
15810.000	Average	24.46	23.48	47.94	54.00	-6.06

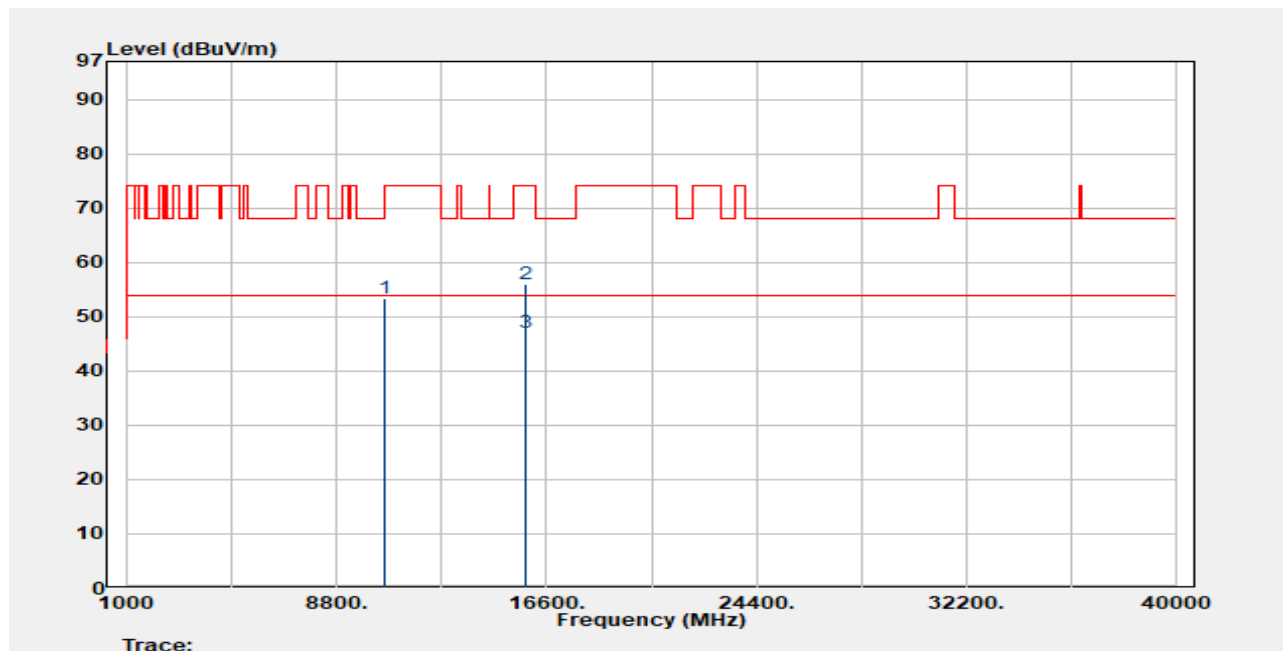
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	32.56	20.81	53.37	68.20	-14.83
15810.000	Peak	32.99	23.10	56.08	74.00	-17.92
15810.000	Average	24.02	23.10	47.12	54.00	-6.88

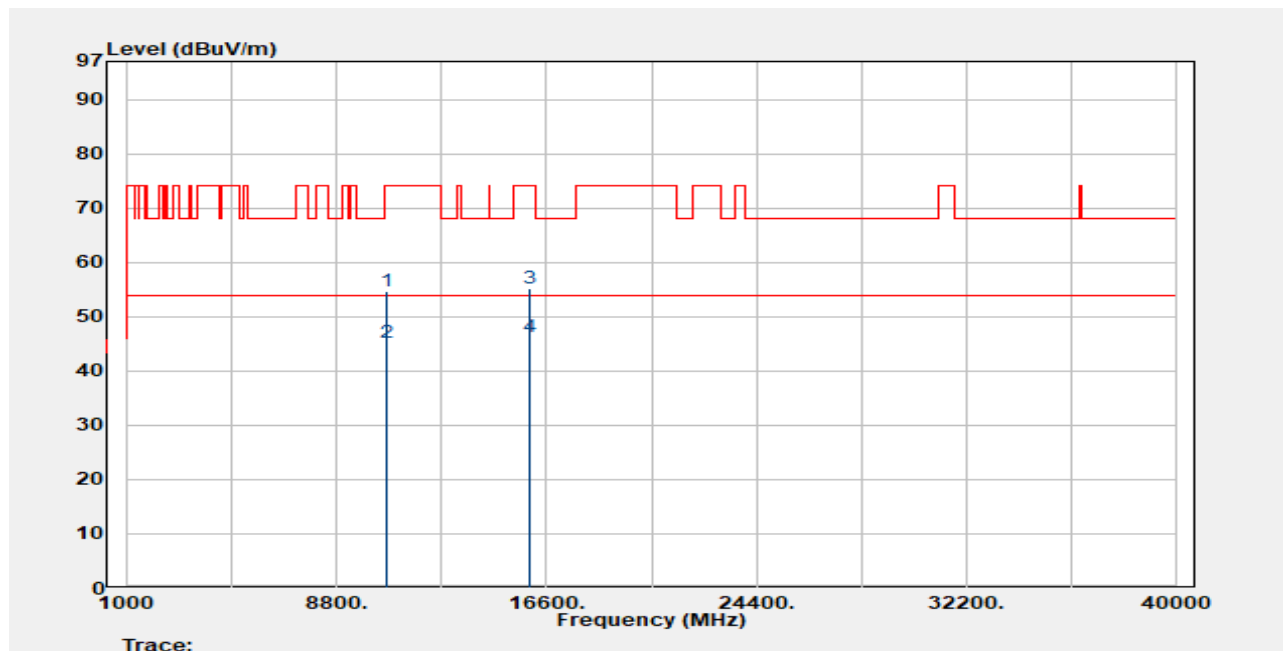
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10620.000	Peak	33.99	20.77	54.76	74.00	-19.24
10620.000	Average	24.53	20.77	45.30	54.00	-8.70
15930.000	Peak	33.01	22.32	55.33	74.00	-18.67
15930.000	Average	23.88	22.32	46.20	54.00	-7.80

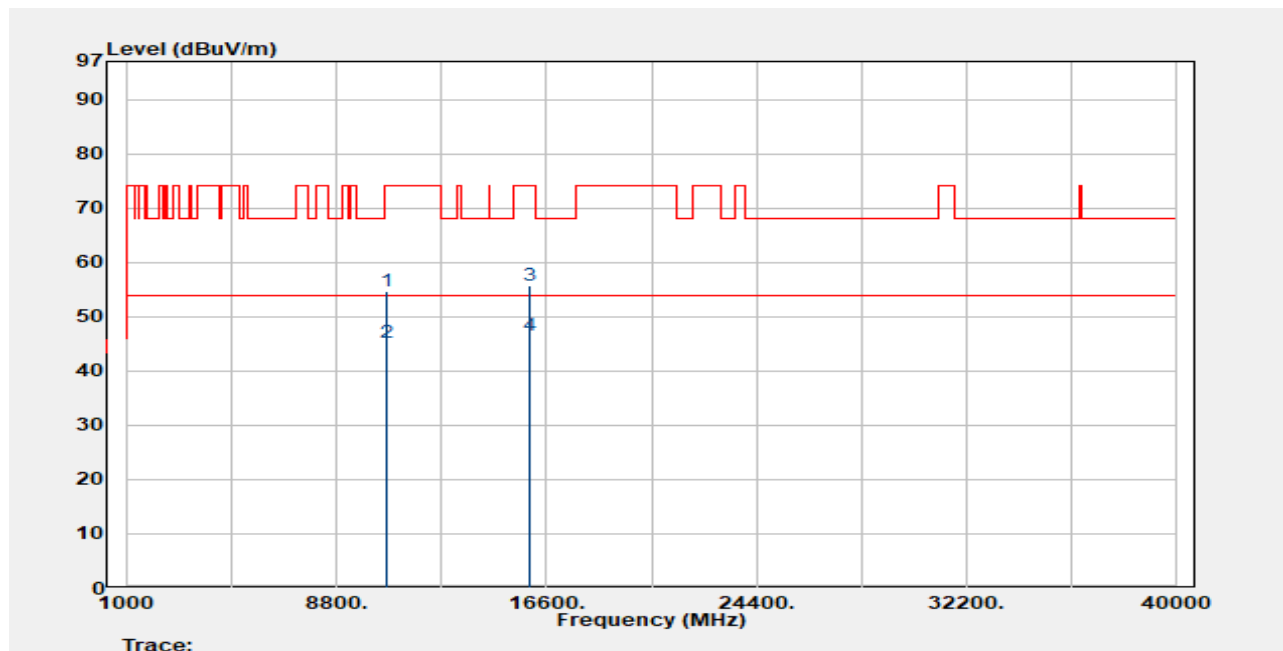
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10620.000	Peak	33.95	20.70	54.66	74.00	-19.34
10620.000	Average	24.56	20.70	45.26	54.00	-8.74
15930.000	Peak	32.87	22.81	55.68	74.00	-18.32
15930.000	Average	23.66	22.81	46.47	54.00	-7.53

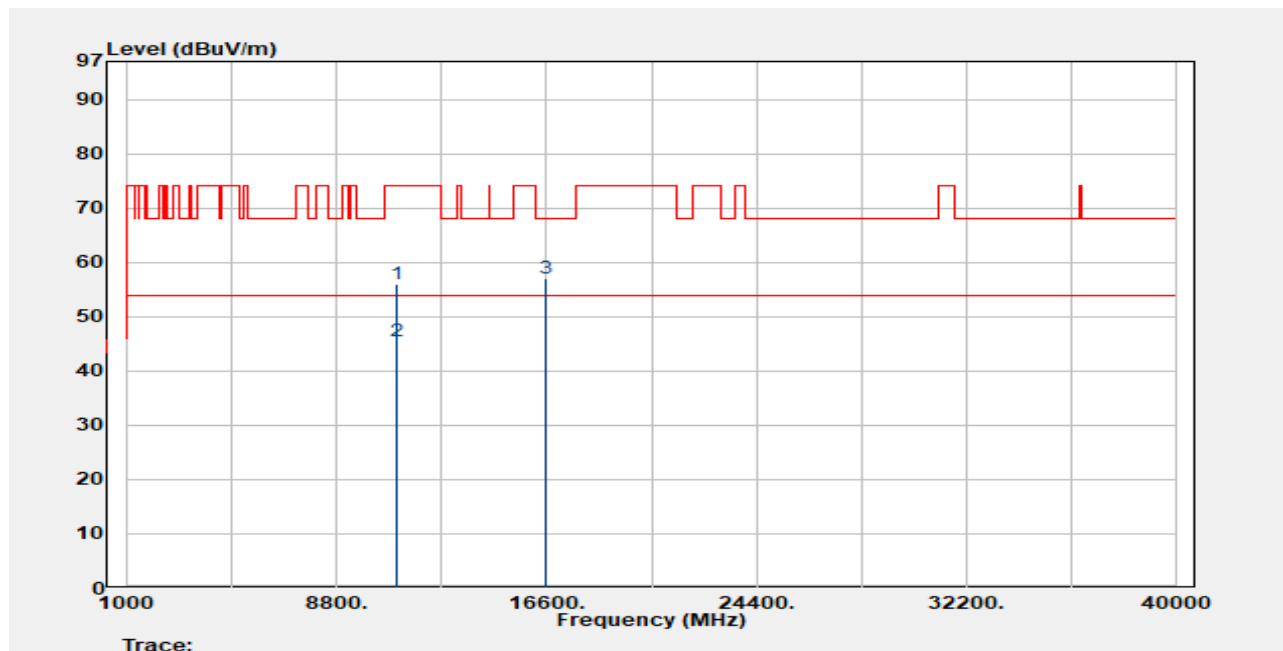
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	34.43	21.44	55.88	74.00	-18.12
11020.000	Average	24.09	21.44	45.53	54.00	-8.47
16530.000	Peak	31.89	25.15	57.05	68.20	-11.15

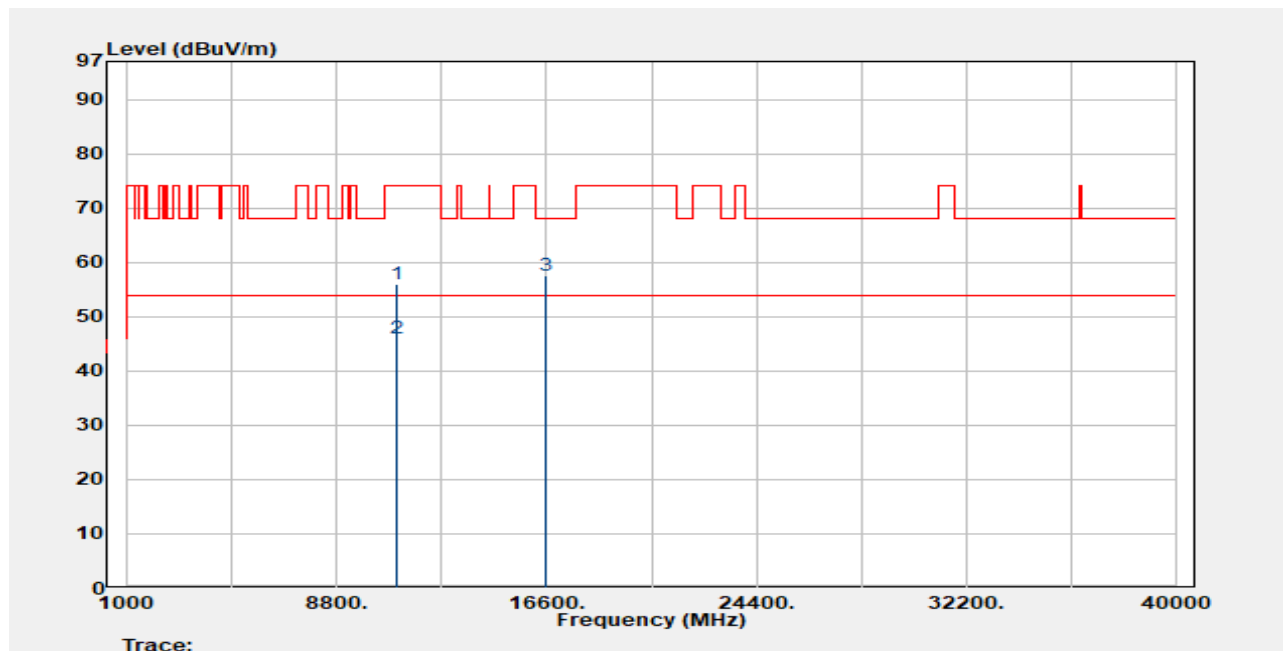
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.98	22.05	56.03	74.00	-17.97
11020.000	Average	24.06	22.05	46.11	54.00	-7.89
16530.000	Peak	32.15	25.43	57.59	68.20	-10.61

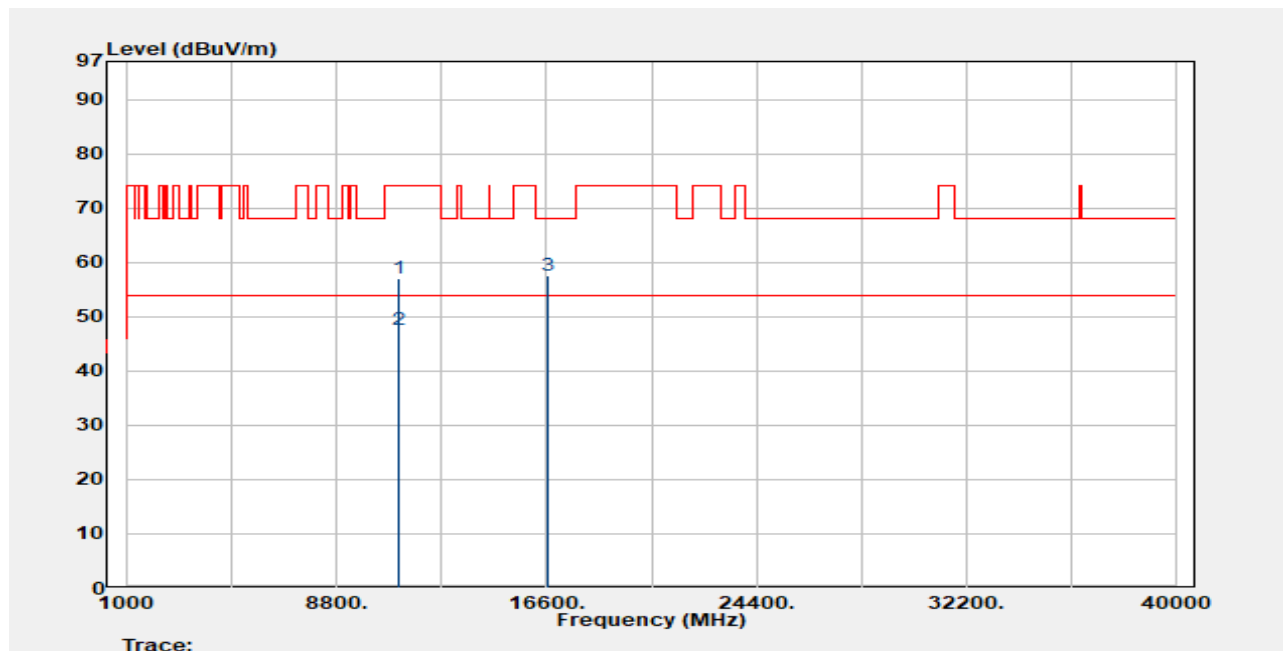
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	34.69	22.37	57.06	74.00	-16.94
11100.000	Average	25.22	22.37	47.59	54.00	-6.41
16650.000	Peak	31.64	25.82	57.46	68.20	-10.74

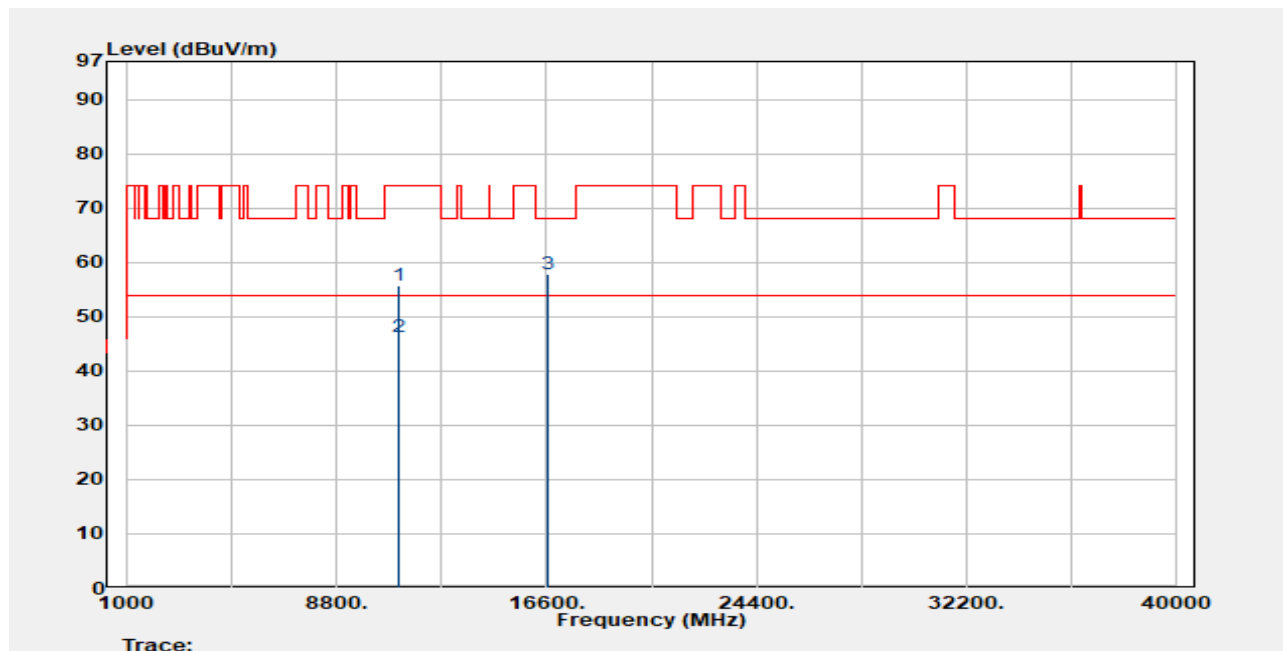
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



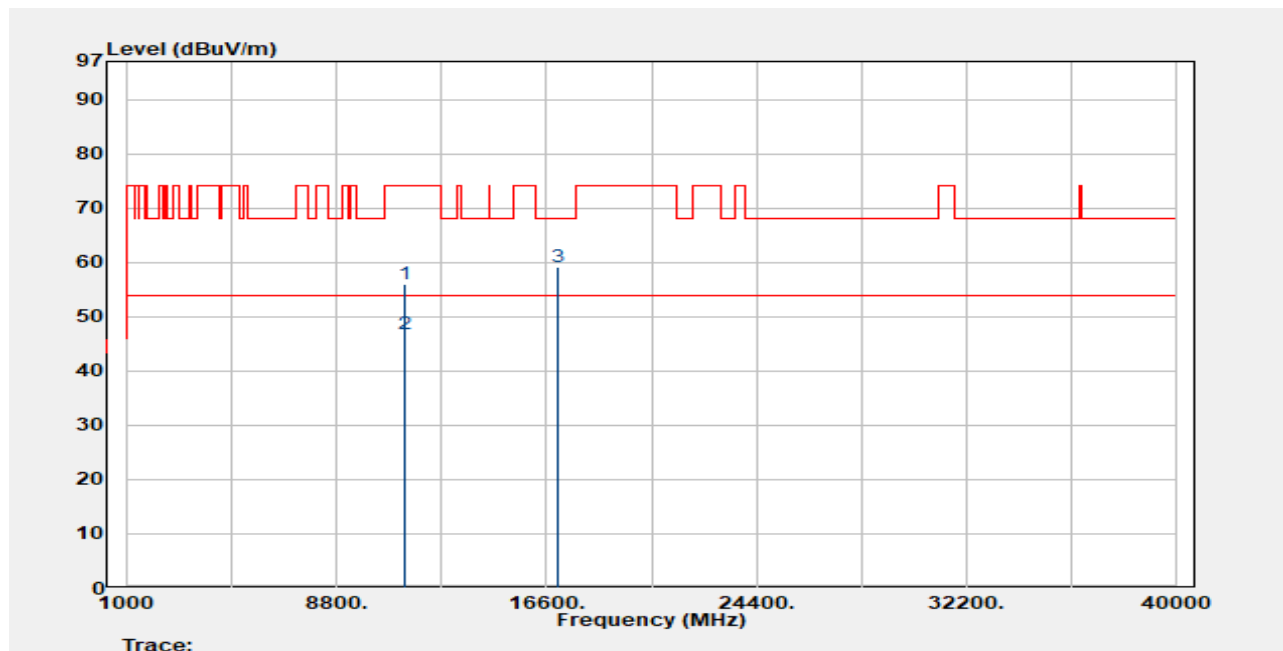
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.000	Peak	34.36	21.31	55.67	74.00	-18.33
11100.000	Average	25.01	21.31	46.32	54.00	-7.68
16650.000	Peak	31.85	26.05	57.90	68.20	-10.30

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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	34.01	21.96	55.97	74.00	-18.03
11340.000	Average	24.81	21.96	46.77	54.00	-7.23
17010.000	Peak	30.95	28.28	59.23	68.20	-8.97

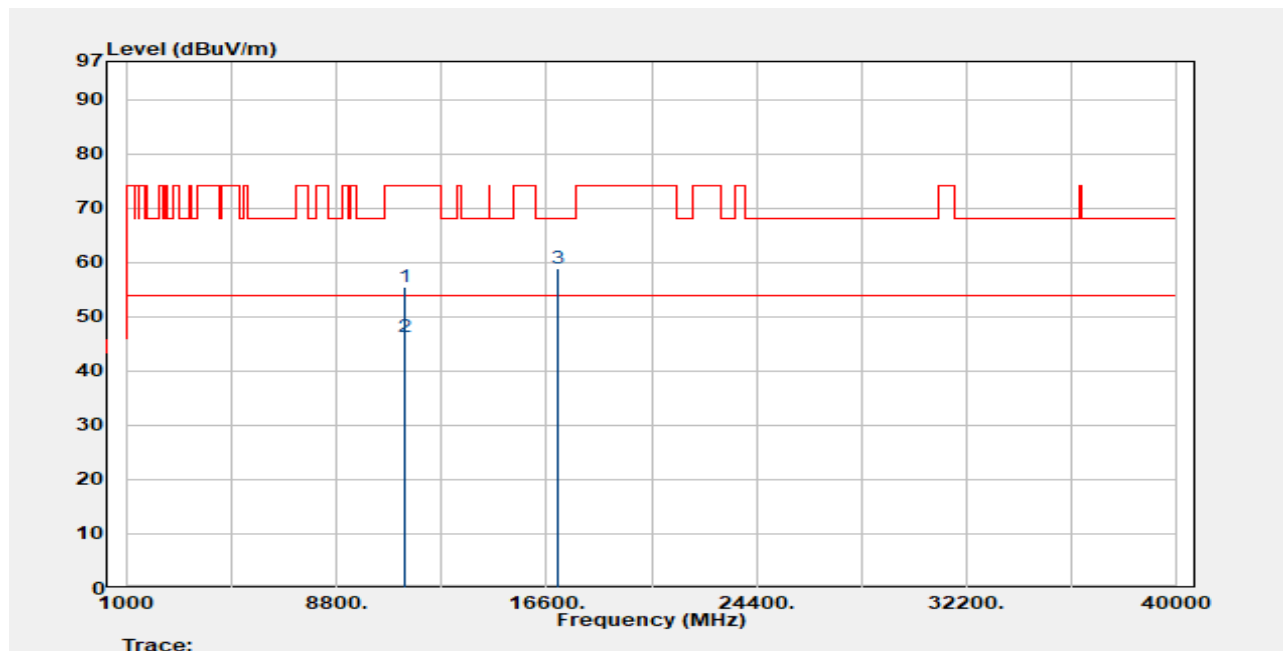
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	33.98	21.62	55.60	74.00	-18.40
11340.000	Average	24.76	21.62	46.38	54.00	-7.62
17010.000	Peak	31.51	27.50	59.01	68.20	-9.19

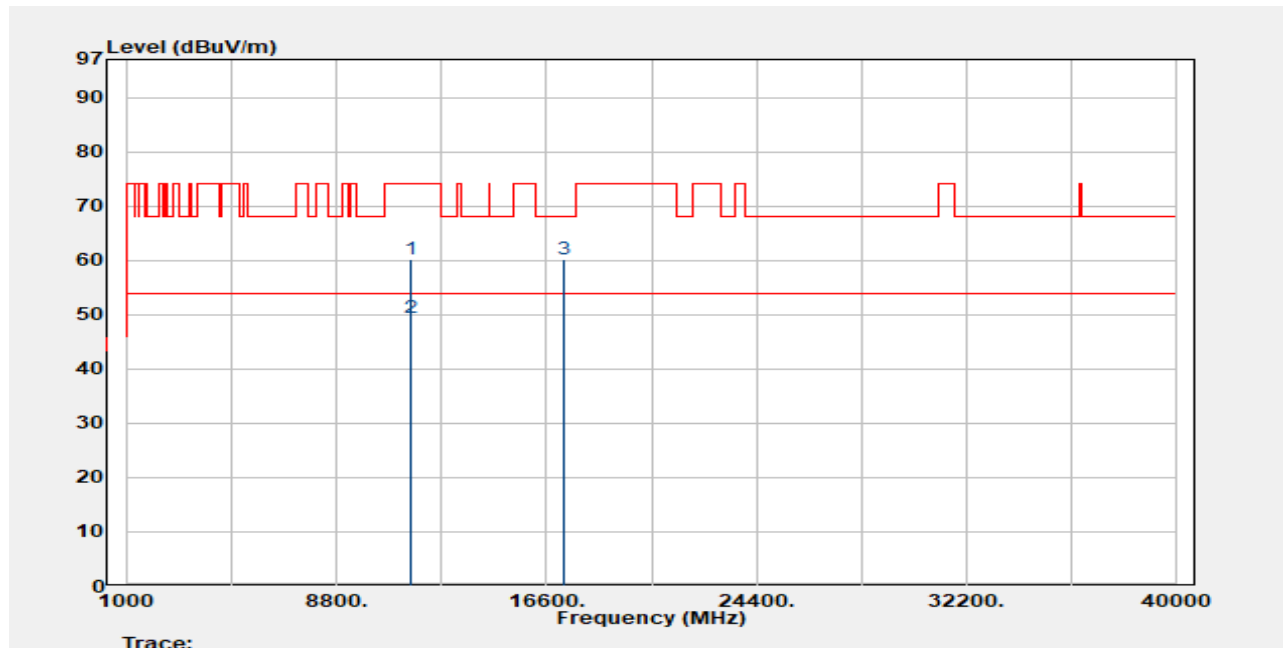
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Report Number :ER-2021-90006
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-22
 Temp./Humi. :25.2/62
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.000	Peak	36.21	23.86	60.07	74.00	-13.93
11510.000	Average	25.56	23.86	49.42	54.00	-4.58
17265.000	Peak	32.09	28.08	60.18	68.20	-8.02

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