

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: GOOGLE LLC
1600 Amphitheatre Parkway Mountain View, CA 94043

Product Name: Wireless Streaming Device

Brand Name: GOOGLE

Model No.: GJQ9T

Model Difference: N/A

Report Number: ER/2021/40063

FCC ID: A4RGJQ9T

IC: 10395A-GJQ9T

Issue Date: July 12, 2021

Date of Test: April 21, 2021~May 10, 2021

Date of EUT Received: February 19, 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.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/40063	00	Original.	July 12, 2021	Elle Chang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Wireless Streaming Device
Brand Name:	GOOGLE
Model No.:	GJQ9T
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	Conducted: G1878051 Radiated: G1878050
Power Supply:	USB 5V

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: 6.5 - 54 Mbps
	802.11 n_20MHz: 6.5 - 72.2 Mbps
	802.11 n_40MHz: 13.5 - 150 Mbps
	802.11 ac_20MHz: 6.5 - 86.7 Mbps
	802.11 ac_40MHz: 13.5 - 200 Mbps
	802.11 ac_80MHz: 29.3 - 433.3 Mbps

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1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
Dipole	5150~5250	2.19	-
	5250~5350	1.97	-
	5470~5725	0.13	-
	5725~5850	0.06	-

Note: Antenna information is provided by the applicant.

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1.4 FCC

WLAN 5 GHz

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT ac_VHT 20M	5180~5240	4	17.41 dBm	OFDM
	5260~5320	4	17.93 dBm	OFDM
	5500~5720	12	17.69 dBm	OFDM
	5745-5825	5	17.83 dBm	OFDM
n_HT ac_VHT 40M	5190~5230	2	17.31 dBm	OFDM
	5270~5310	2	17.81 dBm	OFDM
	5510~5710	6	17.56 dBm	OFDM
	5755-5795	2	17.85 dBm	OFDM
ac_VHT 80M	5210	1	9.34 dBm	OFDM
	5290	1	10.30 dBm	OFDM
	5530~5690	3	17.69 dBm	OFDM
	5775	1	17.52 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	19.60 dBm	OFDM
	5260-5320	4	Avg	17.93 dBm	OFDM
	5500-5700	11	Avg	17.69 dBm	OFDM
	5720 (U-NII 2C)	1	Avg	16.10 dBm	OFDM
	5720 (U-NII 3)	1	Avg	11.69 dBm	OFDM
	5745-5825	5	Avg	17.83 dBm	OFDM
n_HT ac_VHT 40M	5190-5230	2	EIRP	19.50 dBm	OFDM
	5270-5310	2	Avg	17.81 dBm	OFDM
	5510-5670	5	Avg	17.56 dBm	OFDM
	5710 (U-NII 2C)	1	Avg	16.64 dBm	OFDM
	5710 (U-NII 3)	1	Avg	9.89 dBm	OFDM
	5755-5795	2	Avg	17.85 dBm	OFDM
ac_VHT 80M	5210	1	EIRP	11.53 dBm	OFDM
	5290	1	Avg	10.30 dBm	OFDM
	5530-5610	2	Avg	17.69 dBm	OFDM
	5690 (U-NII 2C)	1	Avg	17.09 dBm	OFDM
	5690 (U-NII 3)	1	Avg	8.26 dBm	OFDM
	5775	1	Avg	17.52 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 1, March 2019
 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	
		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 A	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 a 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 a 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 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



Fig. 2-3 Conducted (AC powerline) Emission Configuration

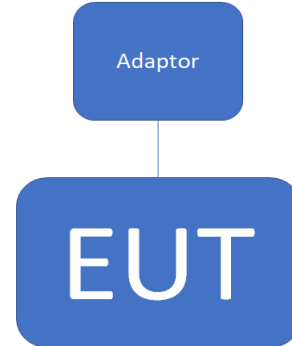


Fig. 2-2 Conducted (Antenna Port) Emission Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	T440P	PC-014TAK	N/A	N/A
3.	Notebook	Lenovo	T440P	PC-083PVC 15/10	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 §15.407(a)	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

**Operating in U-NII Bands
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	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5745 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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4.1 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
	Ch0	Ch1	Ch2	Ch3		
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 1TX	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> SISO	<input type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> SISO	<input type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> 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.

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4.1.1 RADIATED EMISSION TEST:

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	ch0
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			

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	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

Note:

The field strength of radiation emission was measured as EUT three orthogonal plans, 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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4.1.2 ANTENNA PORT CONDUCTED MEASUREMENT:

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	ch0
	5260-5320	52 to 64	52,60,64			
	5500-5720	100 to 144	100,116,140,144			
	5745-5825	149 to 165	149,157,165			
802.11n_HT20	5180-5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5260-5320	52 to 64	52,60,64			
	5500-5720	100 to 144	100,116,140,144			
	5745-5825	149 to 165	149,157,165			
802.11n_HT40	5190-5230	38 to 46	38,46	OFDM	MCS0	ch0
	5270-5310	54 to 62	54,62			
	5510-5710	102 to 142	102,110,134,142			
	5755-5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	ch0
	5290	58	58			
	5530-5690	106 to 138	106,122,138			
	5775	155	155			

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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 dB(uV)	
	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

Radiated Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
LISN	SCHWARZ-BECK	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. 6.11-20180413	N.C.R	N.C.R

6.3 EUT Setup

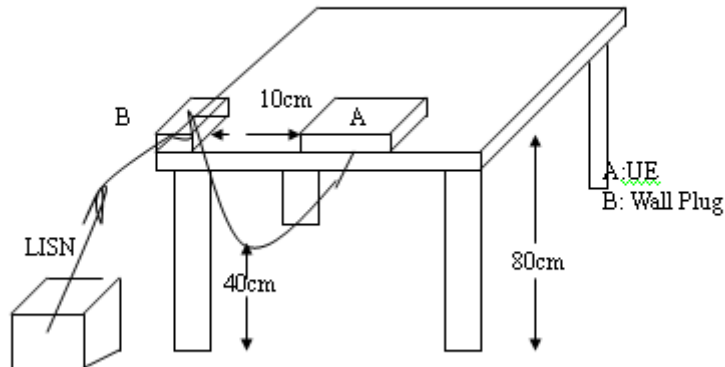
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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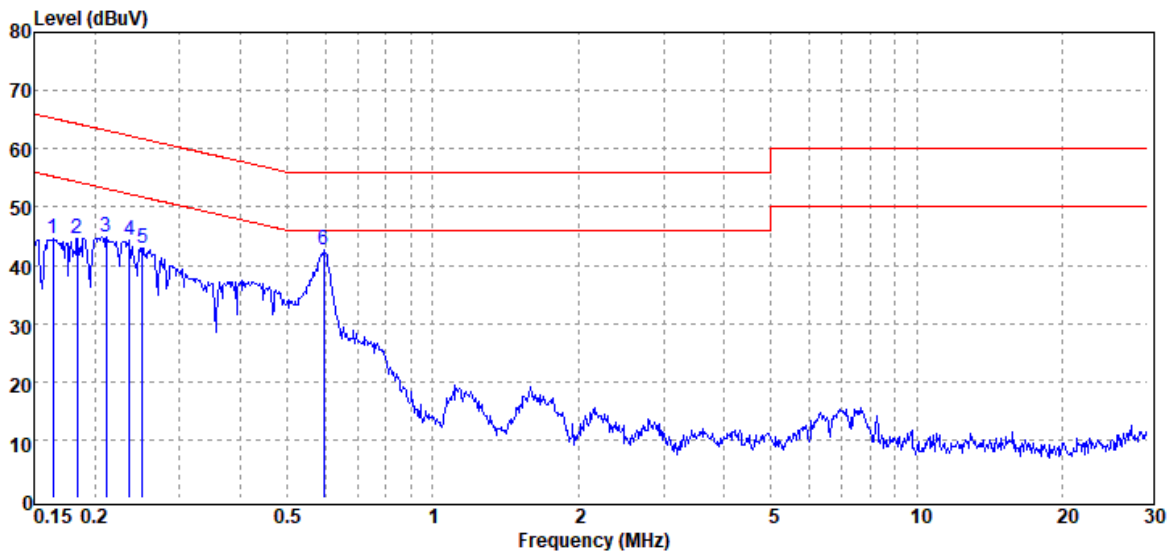
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2021-40063
 Test Mode :WLAN 5G
 Power :AC 120V/60Hz
 Probe :L
 Note :

Test Site :Conduction 6F
 Test Date :2021-04-23
 Temp./Humi. :25.1/62
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Peak	44.55	0.04	44.59	65.25	-20.66
0.18	Peak	44.61	0.04	44.65	64.28	-19.63
0.21	Peak	44.77	0.04	44.81	63.14	-18.33
0.24	Peak	44.13	0.04	44.17	62.22	-18.05
0.25	Peak	42.89	0.04	42.93	61.73	-18.80
0.59	Peak	42.48	0.13	42.61	56.00	-13.39

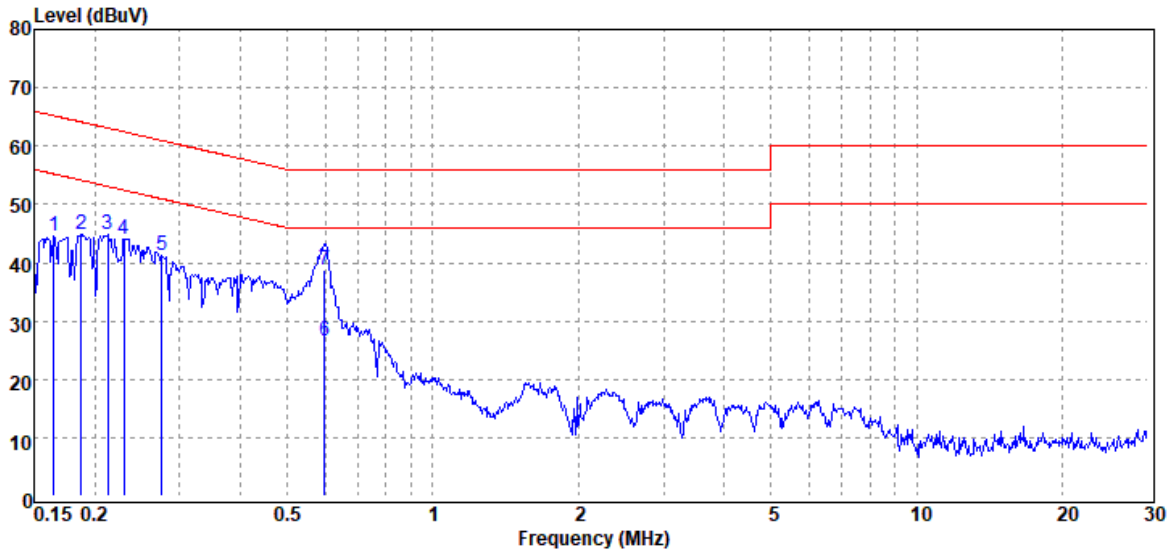
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Report Number :ER-2021-40063
 Test Mode :WLAN 5G
 Power :AC 120V/60Hz
 Probe :N
 Note :

Test Site :Conduction 6F
 Test Date :2021-04-23
 Temp./Humi. :25.1/62
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.17	Peak	44.44	0.10	44.54	65.21	-20.67
0.19	Peak	44.85	0.10	44.95	64.15	-19.20
0.21	Peak	44.69	0.10	44.79	63.10	-18.31
0.23	Peak	43.94	0.10	44.04	62.44	-18.40
0.28	Peak	41.07	0.10	41.17	60.94	-19.77
0.60	Average	26.28	0.18	26.46	46.00	-19.54
0.60	QP	38.67	0.18	38.85	56.00	-17.15

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7 DUTY CYCLE TEST SIGNAL

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

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

7.1 Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.00	0.09	0.70	0.01
802.11n_20	93.00	0.32	0.75	1.00
802.11ac_20	93.00	0.32	0.74	1.00
802.11n_40	87.00	0.60	1.51	2.00
802.11ac_40	87.00	0.60	1.50	2.00
802.11ac_80	76.00	1.19	3.01	4.00

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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a_20MHz_Chain0_5180MHz



802.11ac_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



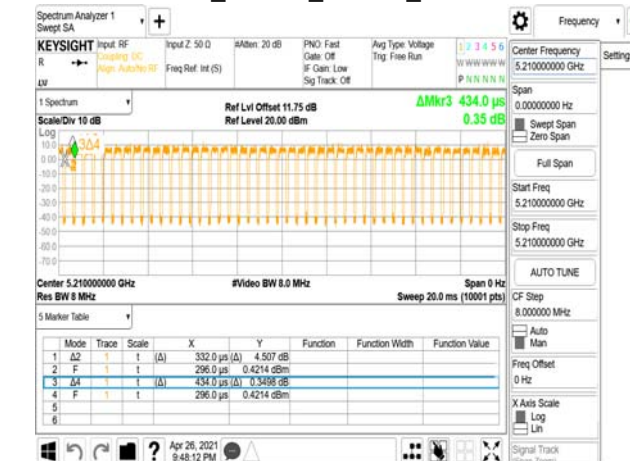
802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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8 EMISSION BANDWIDTH MEASUREMENT

8.1 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

8.2 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 = 30M/50MHz,
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 = 30M/50MHz,
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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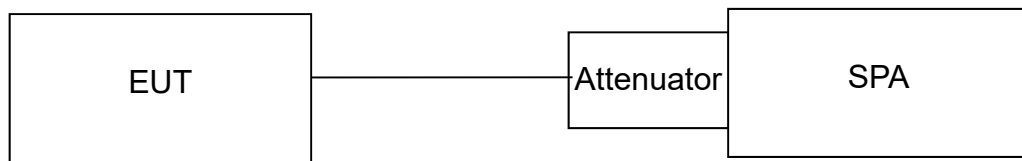
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8.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

8.4 Test Set-up



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8.5 Measurement Result

8.5.1 FCC 26dB Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.70	13.160
5220	21.34	13.290
5240	21.58	13.340
5260	21.56	13.340
5300	21.85	13.390
5320	20.97	13.220
5500	21.09	13.240
5580	23.90	13.780
5700	21.18	13.260
5720(U-NII 2C)	15.68	11.950
5720(U-NII 3)	5.68	7.540

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.17	13.260
5220	24.30	13.860
5240	21.27	13.280
5260	24.38	13.870
5300	25.47	14.060
5320	21.31	13.290
5500	21.32	13.290
5580	25.18	14.010
5700	21.23	13.270
5720(U-NII 2C)	16.44	12.160
5720(U-NII 3)	6.44	8.090

802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.54	15.970
5230	44.69	16.500
5270	44.59	16.490
5310	39.70	15.990
5510	39.39	15.950
5550	44.69	16.500
5670	39.59	15.980
5710(U-NII 2C)	38.04	15.800
5710(U-NII 3)	8.04	9.050

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.85	19.080
5290	80.86	19.080
5530	80.56	19.060
5610	90.72	19.580
5690(U-NII 2C)	80.56	19.060
5690(U-NII 3)	10.56	10.230

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8.5.2 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.89	12.010
5785	16.06	12.060
5825	16.44	12.160

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.22	12.360
5785	17.32	12.390
5825	16.22	12.100

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.44	15.490
5795	35.48	15.500

802.11ac_VHT80_Ch0

Freq. (MHz)	80.56	10 Log (B) (dB)
5775	75.27	18.770

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8.5.1 BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.40	< 5250
5745	5736.76	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.93	< 5250
5745	5736.17	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.21	< 5250
5755	5736.9758	> 5725

802.11ac_VHT80_Ch0

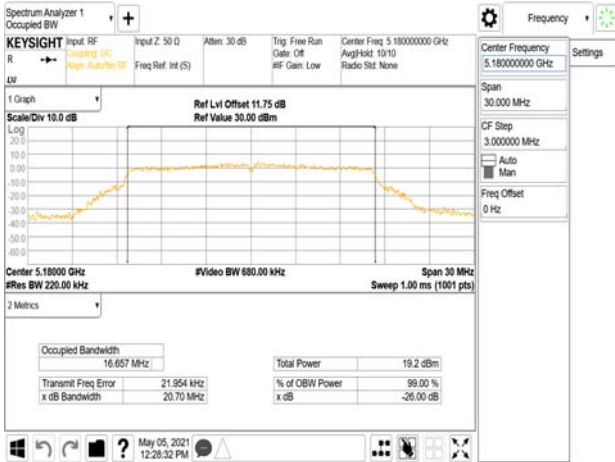
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.80647	< 5250
5775	5737.40113	> 5725

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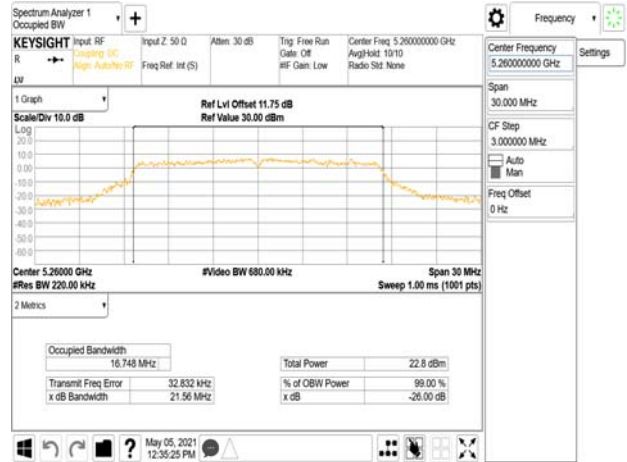
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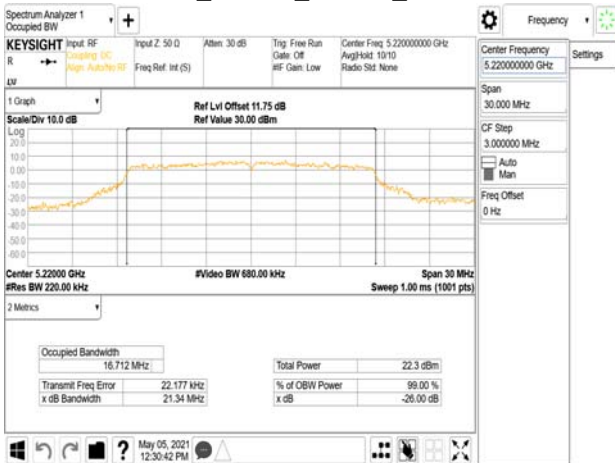
802.11a_20MHz_Chain0_5180MHz



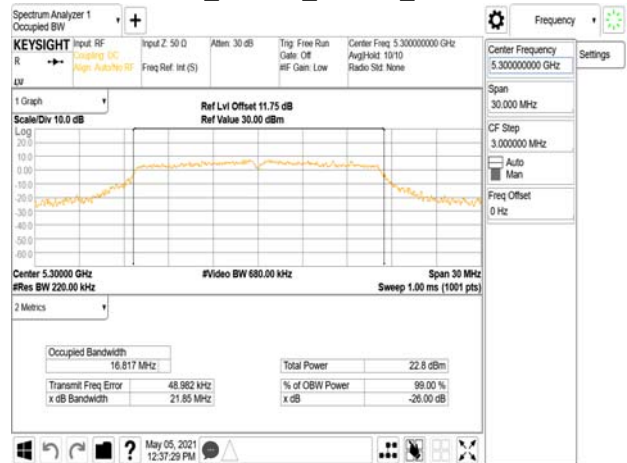
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

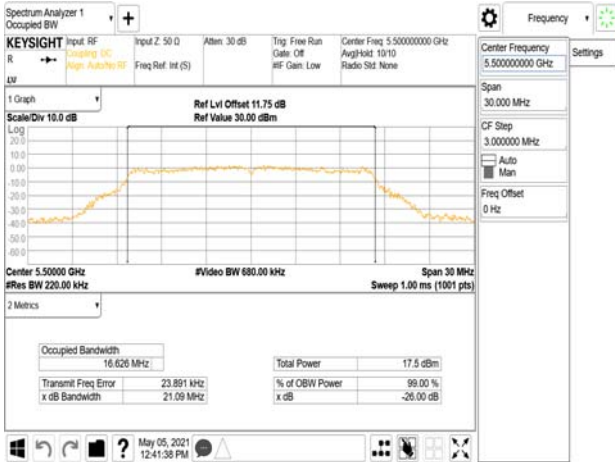


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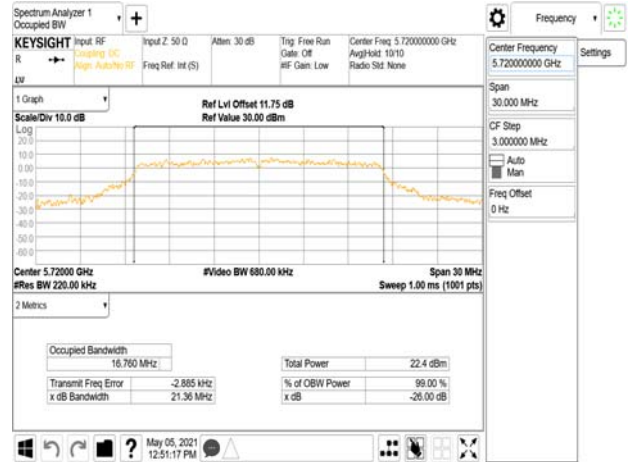
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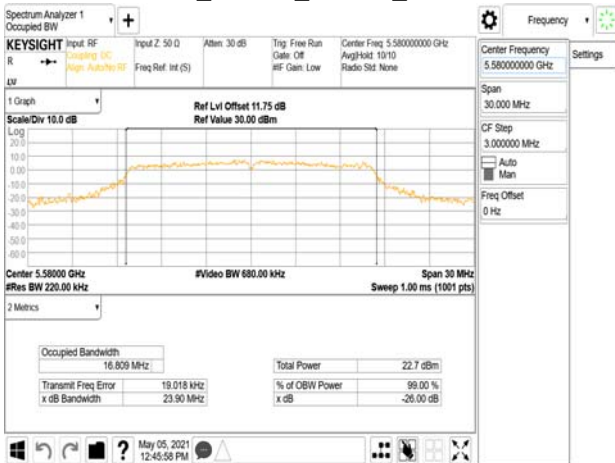
802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

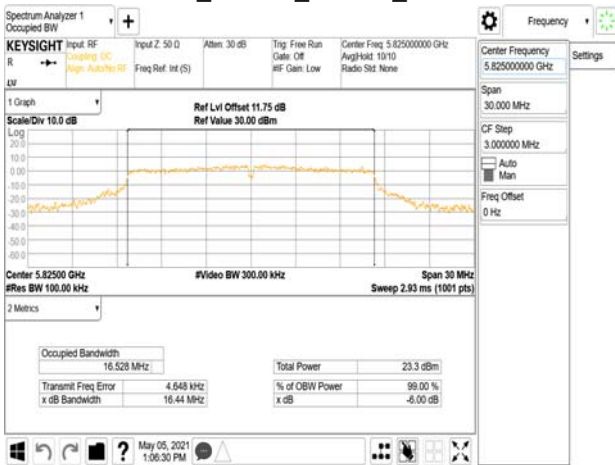


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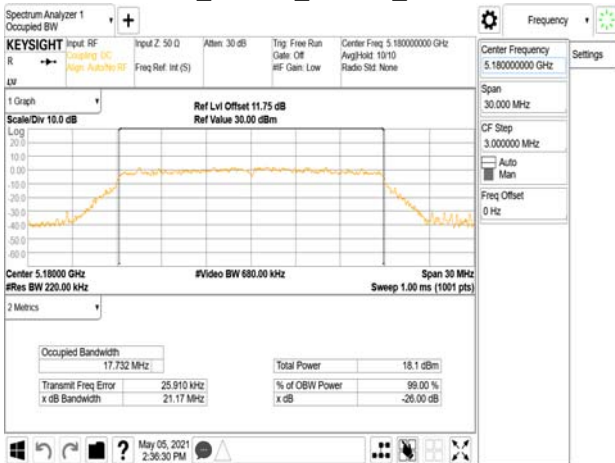
802.11a_20MHz_Chain0_5825MHz



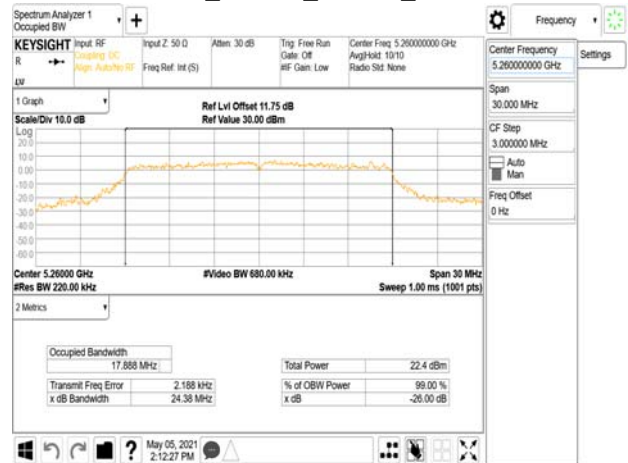
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



802.11n_20MHz_Chain0_5300MHz

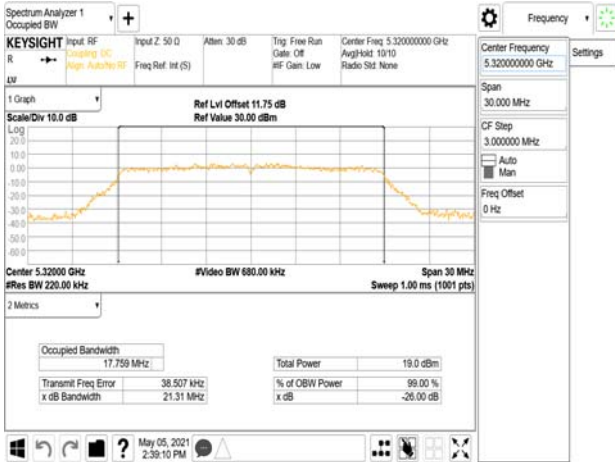


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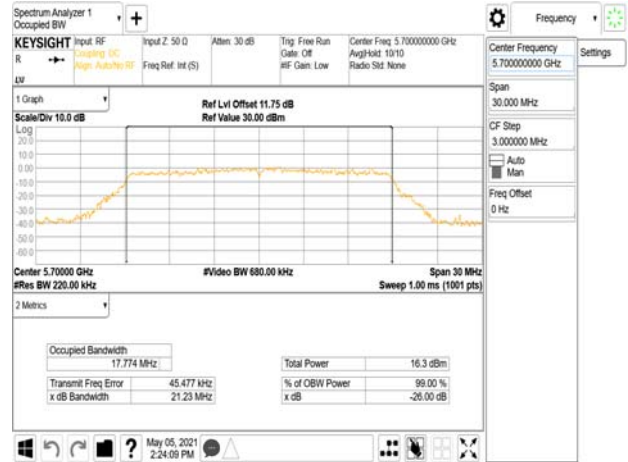
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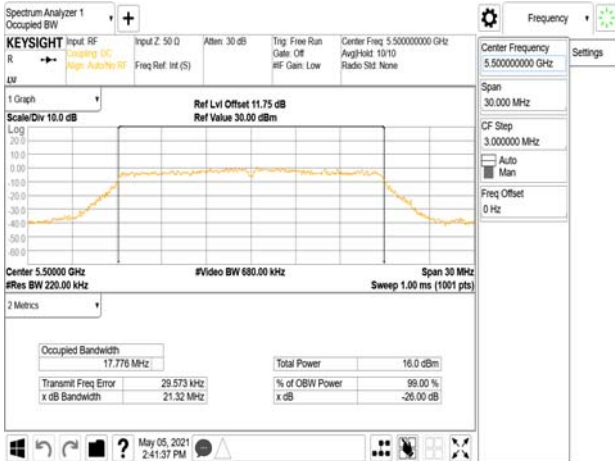
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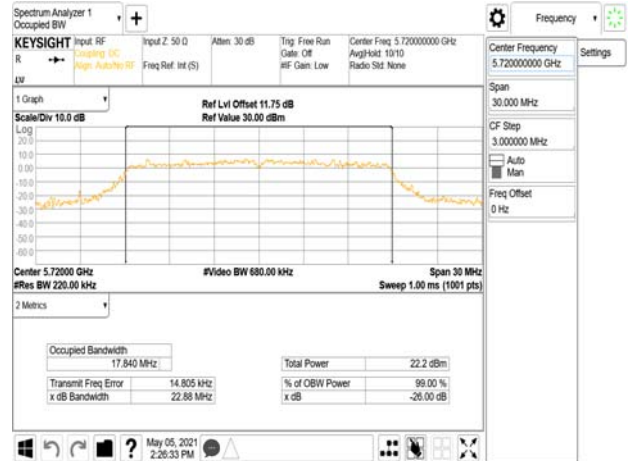
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5745MHz



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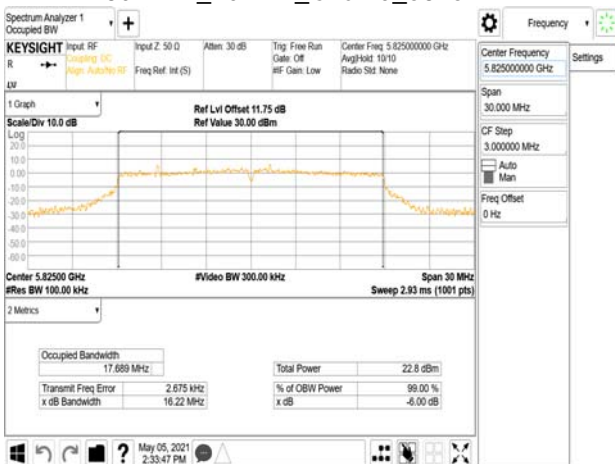
802.11n_20MHz_Chain0_5785MHz



802.11n_40MHz_Chain0_5230MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz

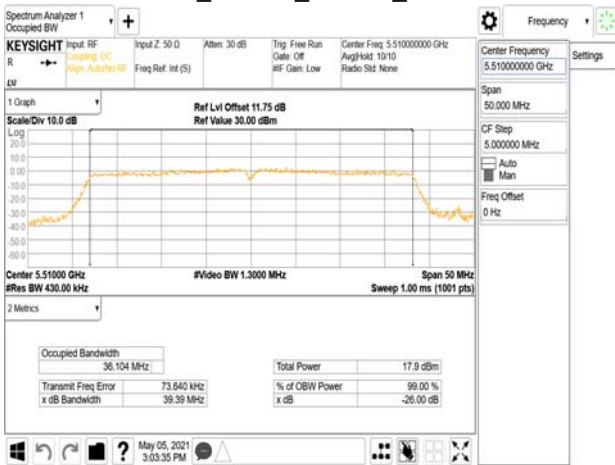


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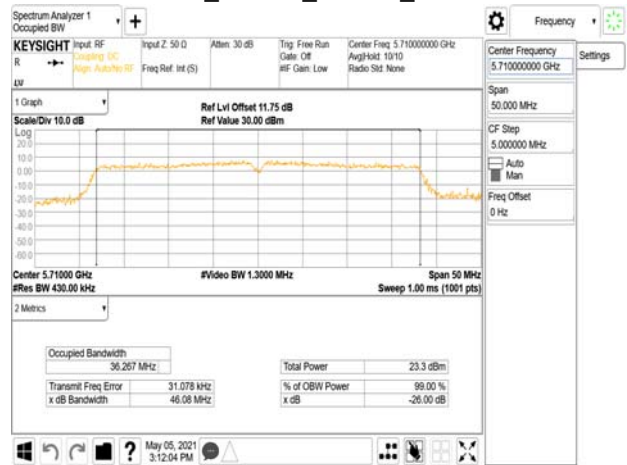
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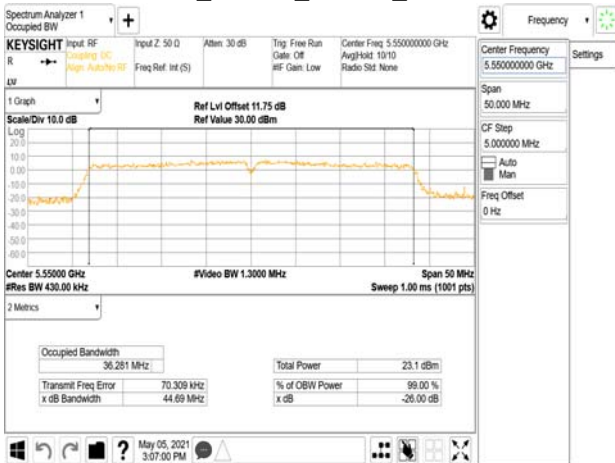
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



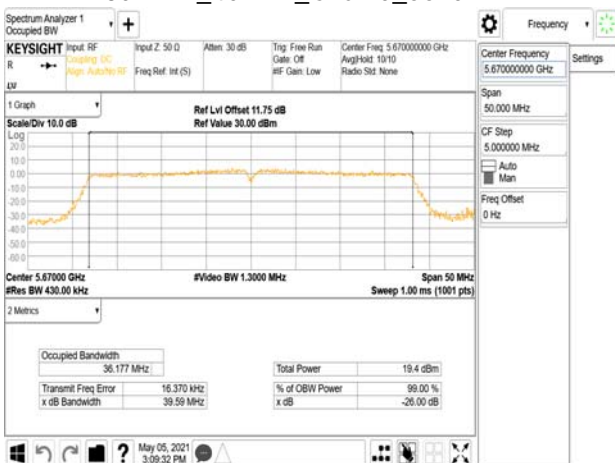
802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5795MHz



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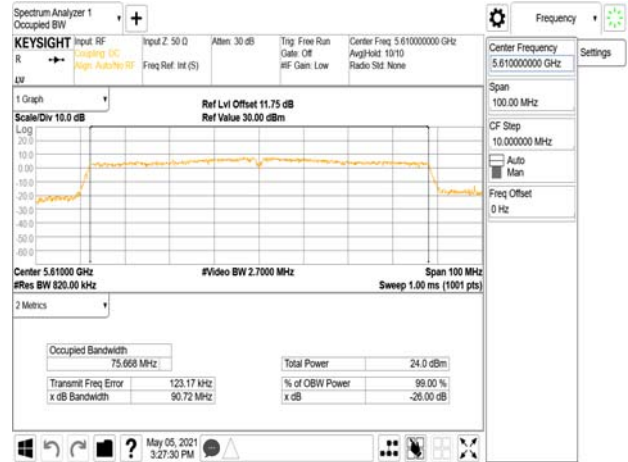
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802.11ac_80MHz_Chain0_5210MHz



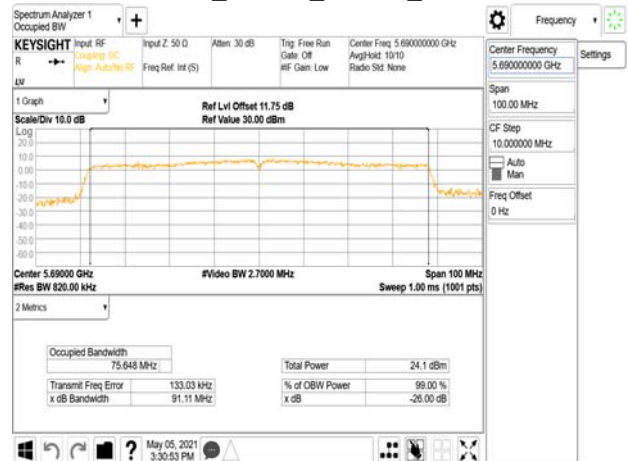
802.11ac_80MHz_Chain0_5610MHz



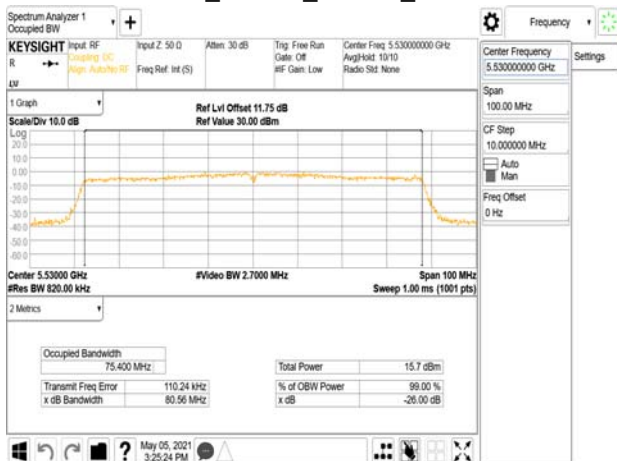
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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8.5.2 ISED 99% Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.592	12.200
5220	16.631	12.210
5240	16.694	12.230
5260	16.692	12.230
5300	16.720	12.230
5320	16.625	12.210
5500	16.638	12.210
5580	16.761	12.240
5700	16.606	12.200
5720(U-NII 2C)	13.334	11.250
5720(U-NII 3)	3.334	5.230

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.731	12.490
5220	17.806	12.510
5240	17.789	12.500
5260	17.791	12.500
5300	17.814	12.510
5320	17.754	12.490
5500	17.737	12.490
5580	17.778	12.500
5700	17.731	12.490
5720(U-NII 2C)	13.892	11.430
5720(U-NII 3)	3.892	5.900

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.146	15.580
5230	36.208	15.590
5270	36.171	15.580
5310	36.094	15.570
5510	36.216	15.590
5550	36.190	15.590
5670	36.091	15.570
5710(U-NII 2C)	33.097	15.200
5710(U-NII 3)	3.097	4.910

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.425	18.780
5290	75.624	18.790
5530	75.438	18.780
5610	75.548	18.780
5690(U-NII 2C)	72.751	18.620
5690(U-NII 3)	2.751	4.390

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8.5.3 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with sample detector for ISED

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.729	16.330
5785	16.685	16.310
5825	16.693	11.750

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.763	17.440
5785	17.799	17.560
5825	17.799	11.750

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.222	36.060
5795	36.168	36.080

802.11ac_VHT80_Ch0

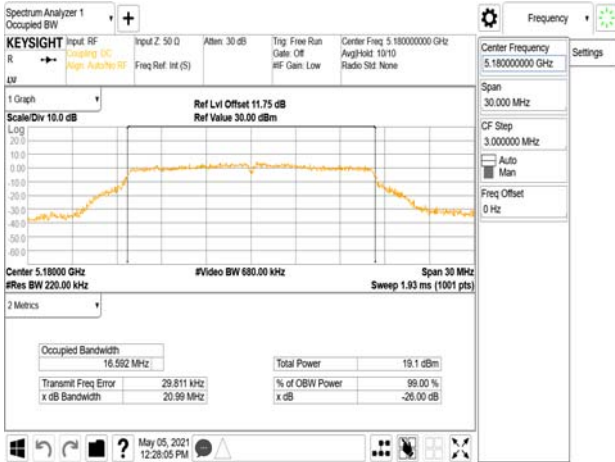
Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.512	75.580

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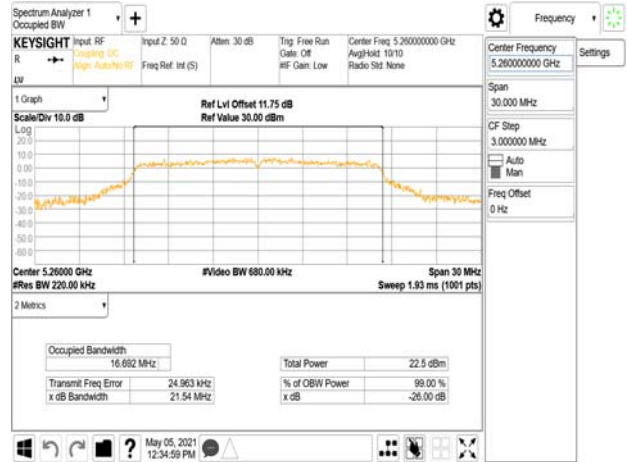
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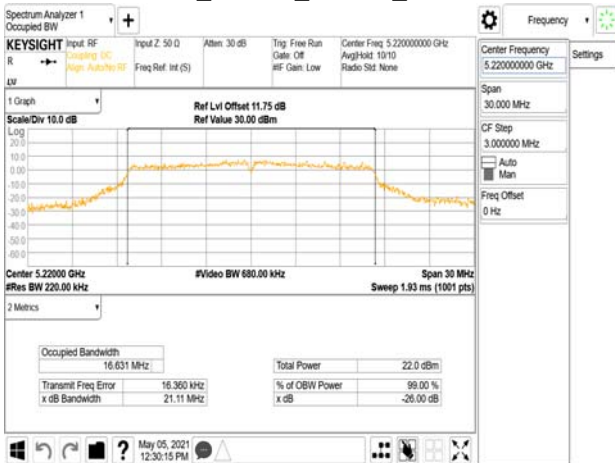
802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



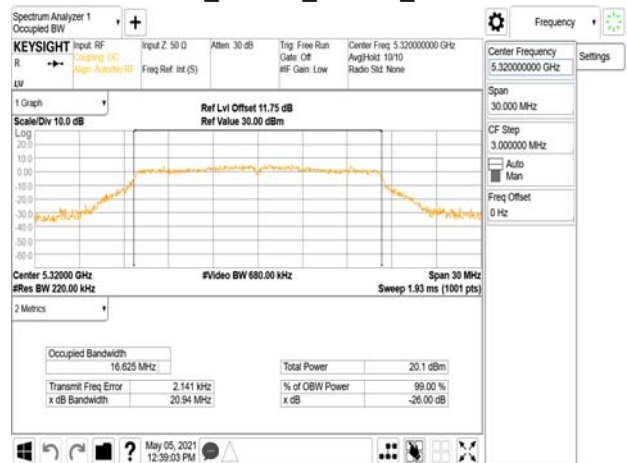
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

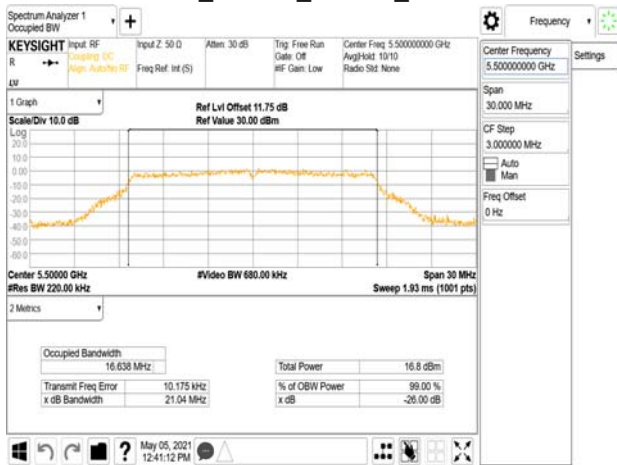


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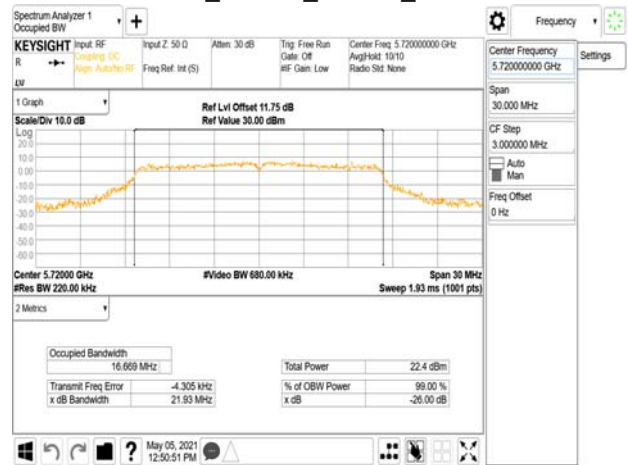
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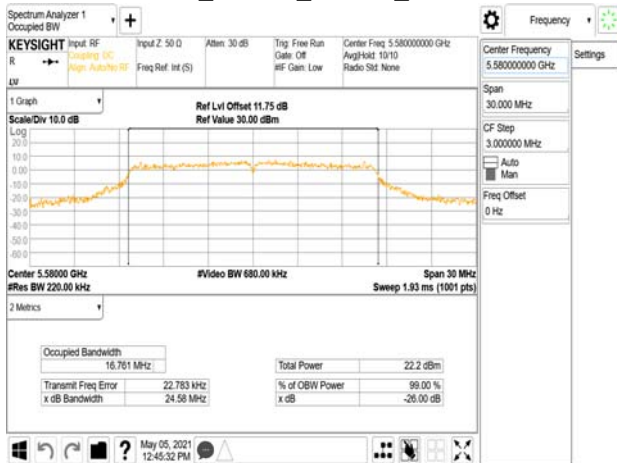
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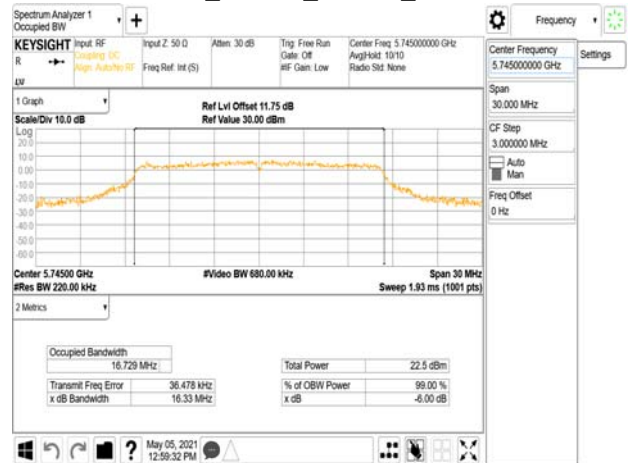
802.11a_20MHz_Chain0_5720MHz



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

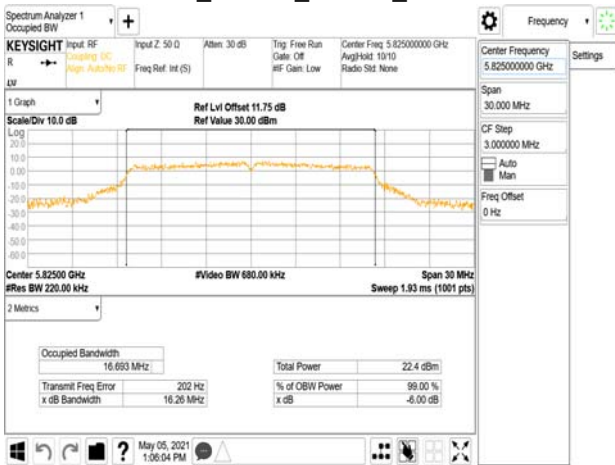


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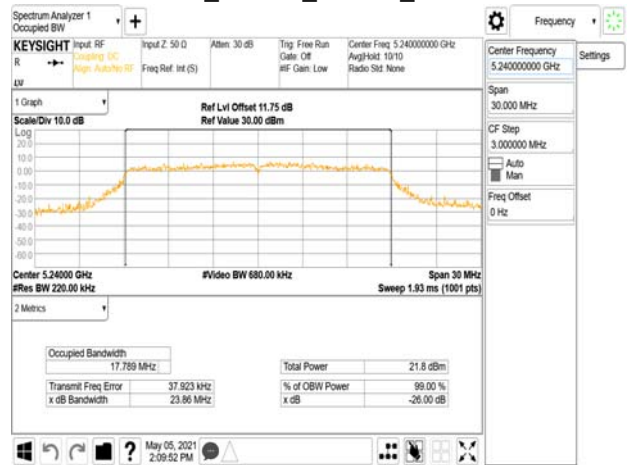
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802.11a_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



802.11n_20MHz_Chain0_5300MHz

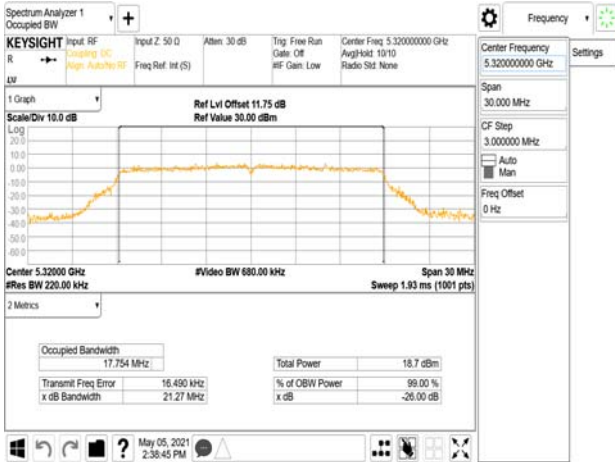


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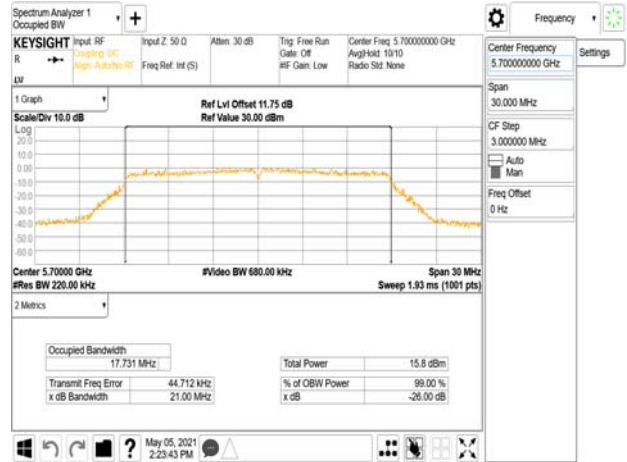
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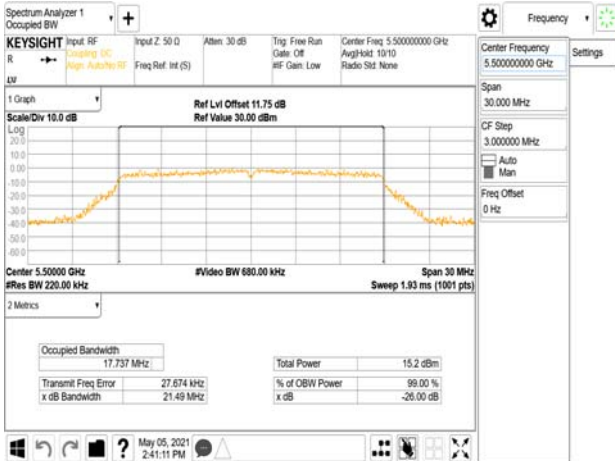
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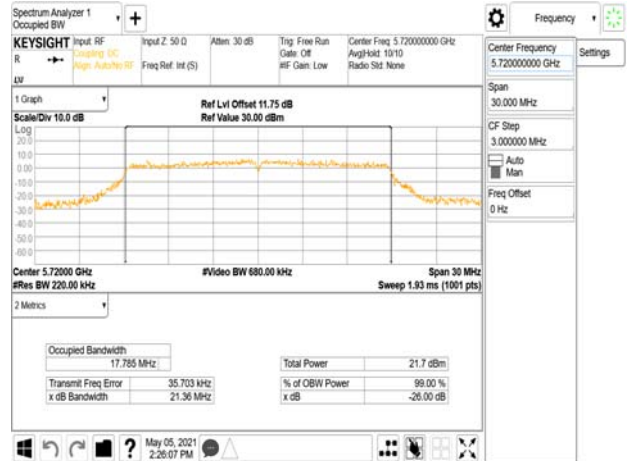
802.11n_20MHz_Chain0_5700MHz



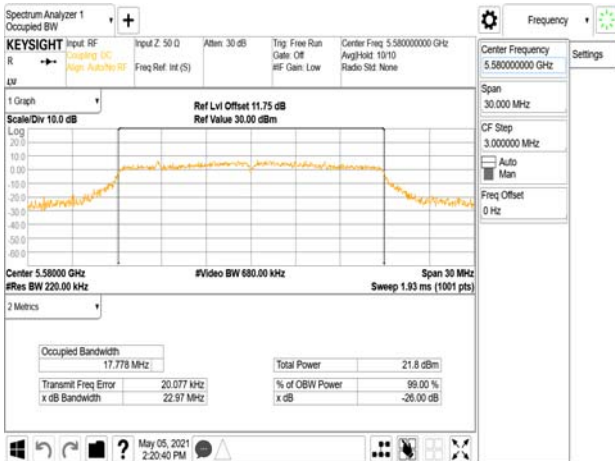
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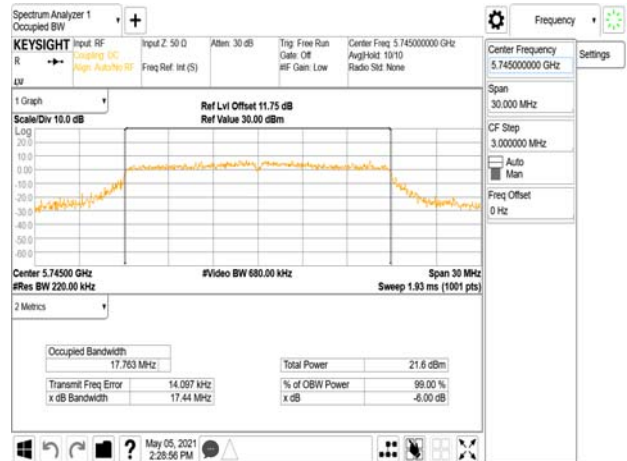
802.11n_20MHz_Chain0_5720MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5745MHz

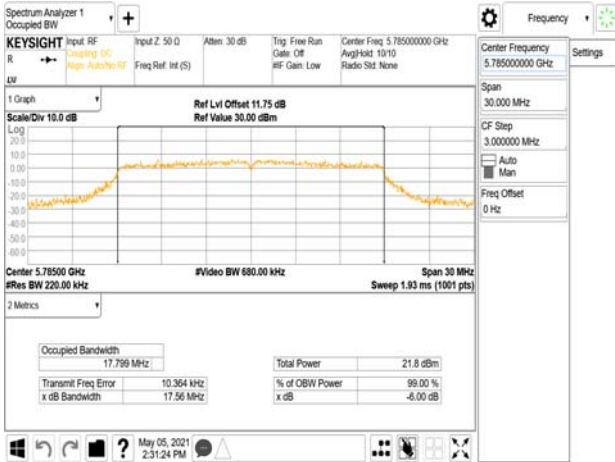


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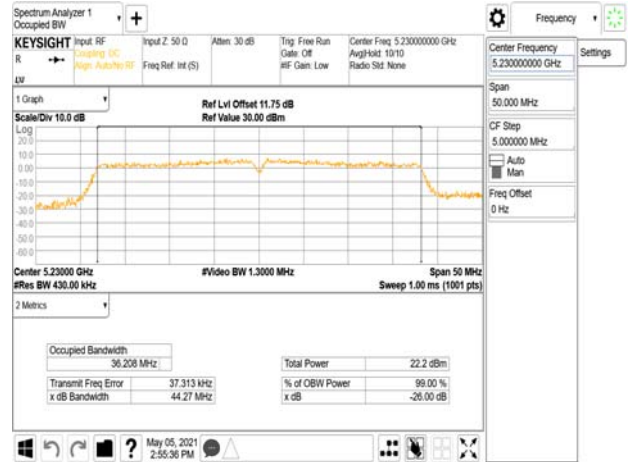
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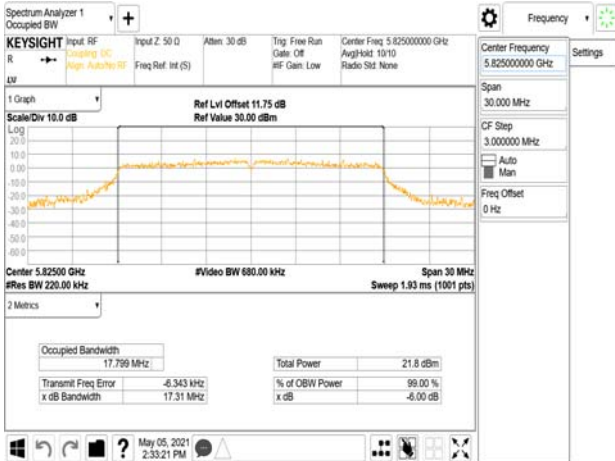
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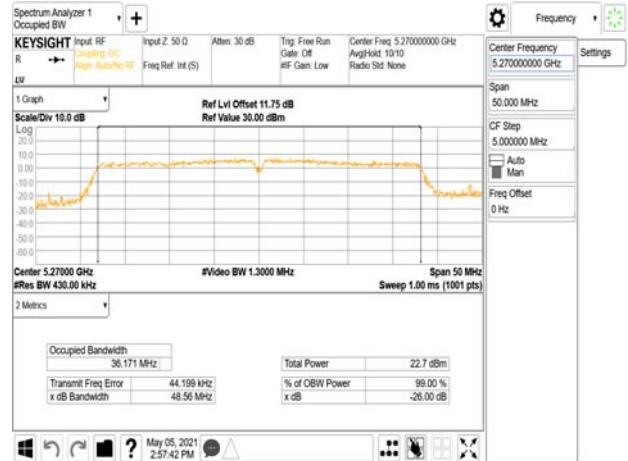
802.11n_40MHz_Chain0_5230MHz



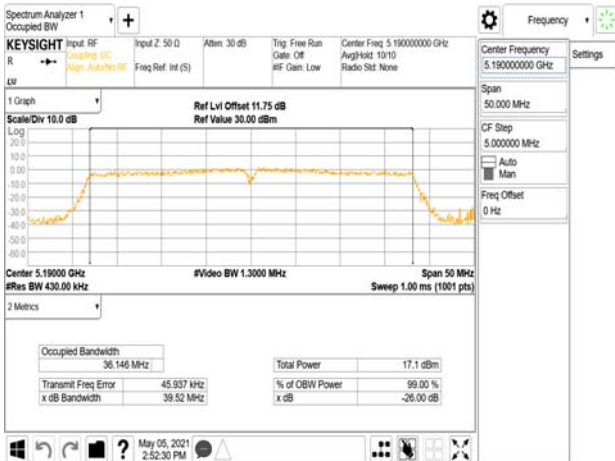
802.11n_20MHz_Chain0_5825MHz



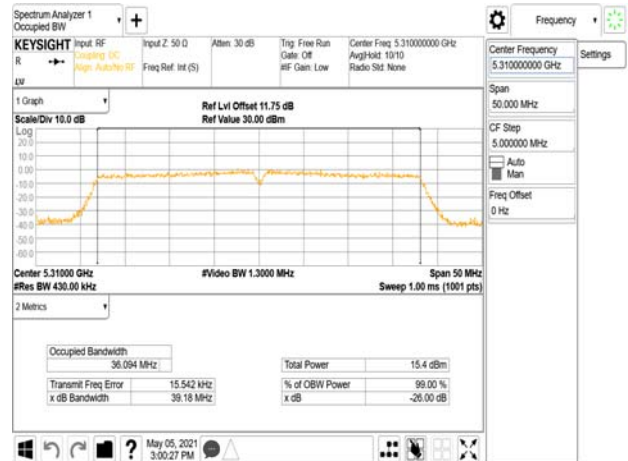
802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz

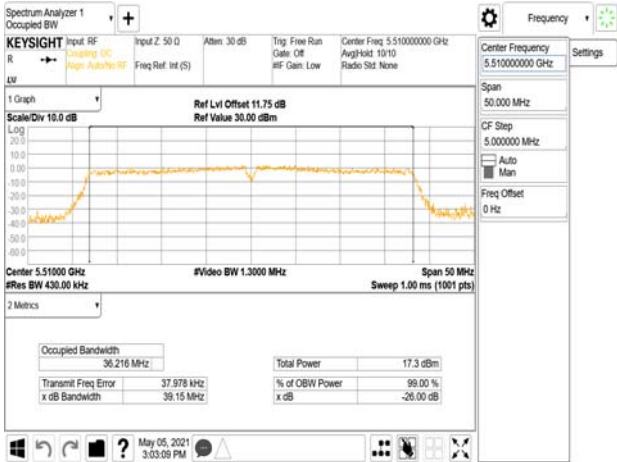


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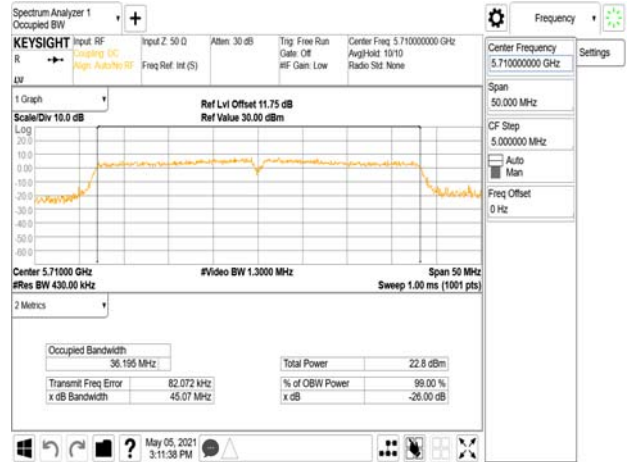
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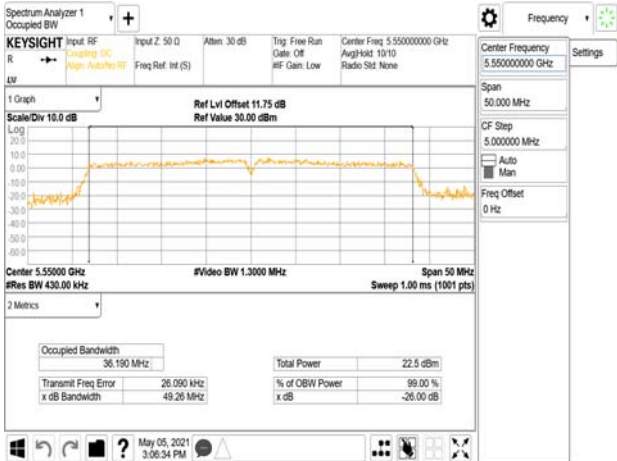
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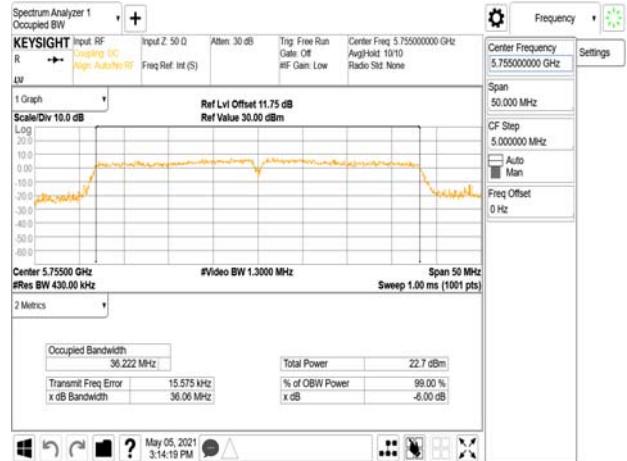
802.11n_40MHz_Chain0_5710MHz



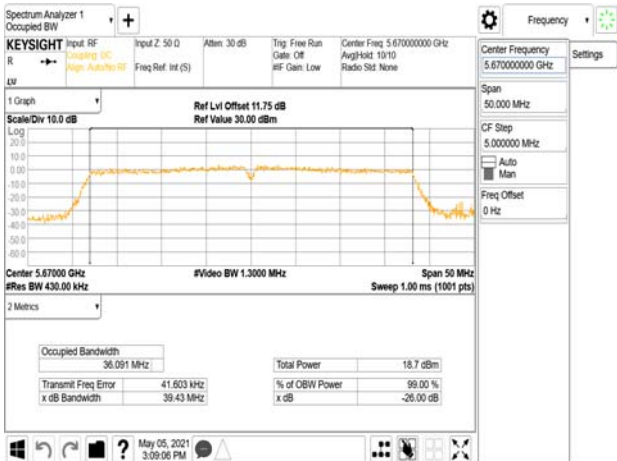
802.11n_40MHz_Chain0_5550MHz



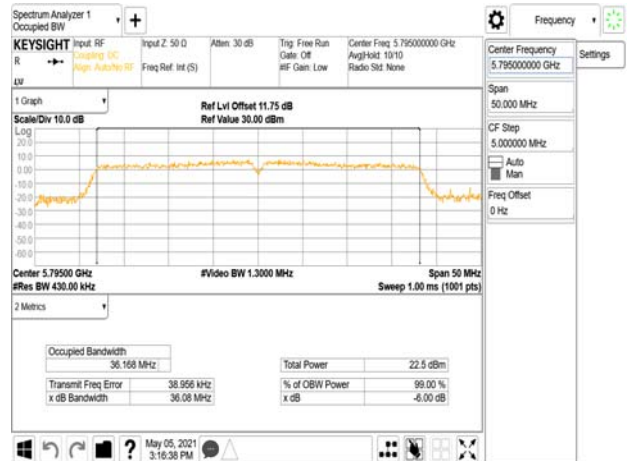
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5795MHz

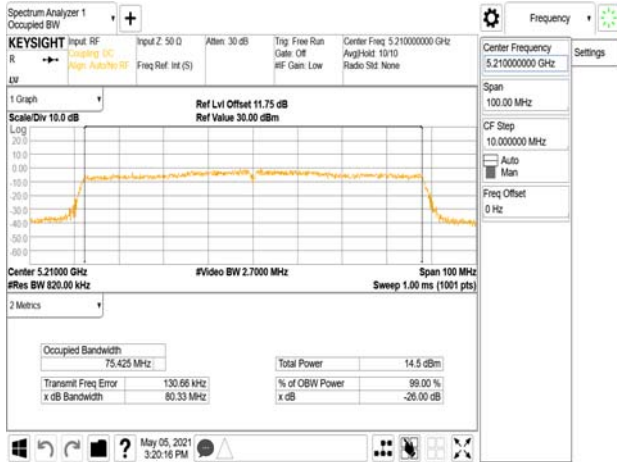


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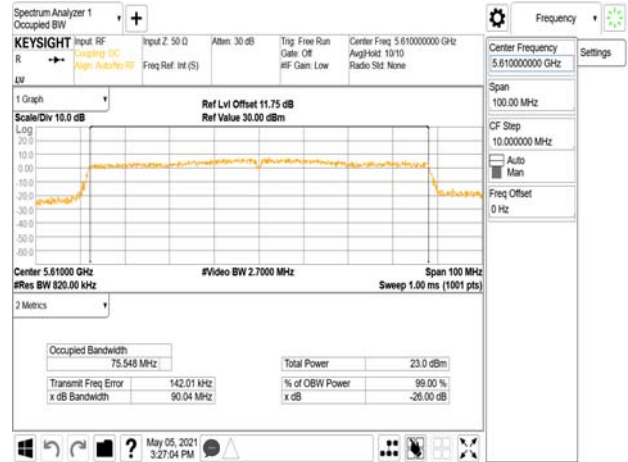
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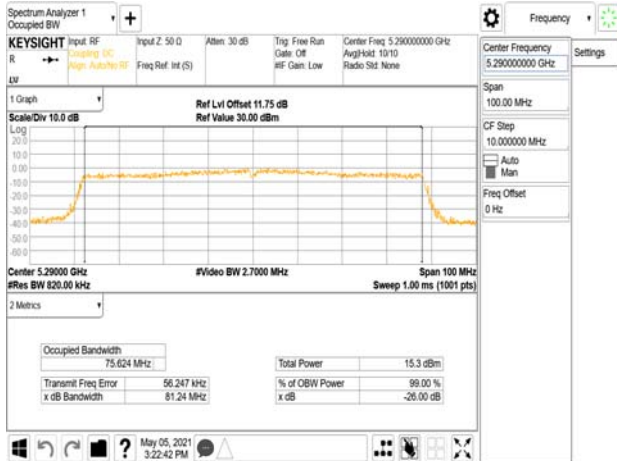
802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5290MHz



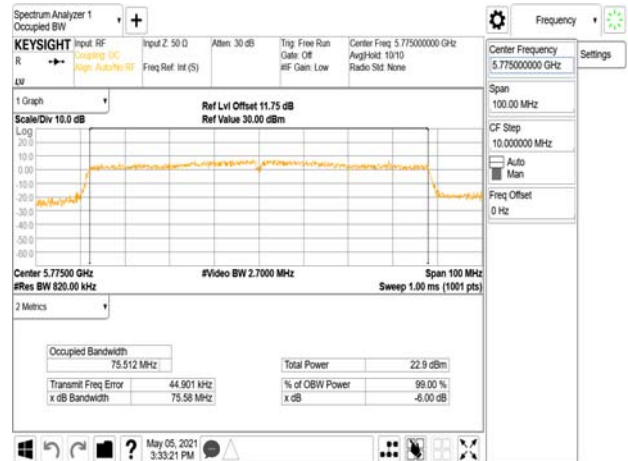
802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

Band	EUT CATEGORY		LIMIT			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1	<input type="checkbox"/>	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	<input type="checkbox"/>	Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	<input checked="" type="checkbox"/>	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	<input checked="" type="checkbox"/>	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW	6dBi
U-NII-2C	<input checked="" type="checkbox"/>	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-3	<input checked="" type="checkbox"/>	Other	1 Watt(30dBm)	Not required	Not required	6dBi
	<input type="checkbox"/>	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required

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

ISED

FREQUENCY BAND (MHz)	Limits of RSS-247 6.2.1~6.2.4		
	EIRP	Conducted Output Power	TPC
5150~5250	200 mW or 10 + 10 log ₁₀ B dBm	N/A	<input type="checkbox"/> Vehicle use, at least 3dB below 30mW EIRP
5250~5350	1.0 W or 17 + 10 log ₁₀ B dBm	250 mW or 11 +10 log ₁₀ B	<input type="checkbox"/> Vehicle use, at least 3dB below 30mW EIRP or
			<input type="checkbox"/> EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	1.0 W or 17 + 10 log ₁₀ B dBm	250 mW or 11 +10 log ₁₀ B	<input type="checkbox"/> EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	N/A	1 W	N/A

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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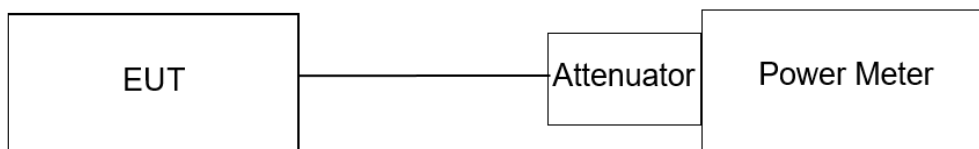
9.2 Measurement Procedure

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 power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
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
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021

9.4 Test Set-up



9.5 Measurement Result

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power limits are the lesser of 250 mW (23.98dBm) or 11 dBm + 10 log B and EIRP limits are the lesser of 1.0W (30dBm) or 17 + 10 log B.

1. Where B is the 26 dB emission bandwidth in megahertz for FCC compliance.
2. And B is the 99% for ISSED compliance.

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9.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	14.39	27.465	23.98	PASS
44	5220	6	17.40	54.925	23.98	PASS
48	5240	6	17.41	55.052	23.98	PASS
52	5260	6	17.84	60.782	23.98	PASS
60	5300	6	17.93	62.055	23.98	PASS
64	5320	6	15.44	34.976	23.98	PASS
100	5500	6	12.43	17.489	23.98	PASS
116	5580	6	17.69	58.718	23.98	PASS
140	5700	6	13.57	22.739	23.98	PASS
144	5720(U-NII 2C)	6	16.10	40.69	22.95	PASS
144	5720 (U-NII 3)	6	11.69	14.74	30	PASS
149	5745	6	17.54	56.725	30	PASS
157	5785	6	17.47	55.818	30	PASS
165	5825	6	17.83	60.642	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.94	19.657	23.98	PASS
44	5220	MCS0	17.07	50.876	23.98	PASS
48	5240	MCS0	17.40	54.893	23.98	PASS
52	5260	MCS0	17.53	56.561	23.98	PASS
60	5300	MCS0	17.63	57.878	23.98	PASS
64	5320	MCS0	14.20	26.273	23.98	PASS
100	5500	MCS0	11.04	12.692	23.98	PASS
116	5580	MCS0	17.48	55.914	23.98	PASS
140	5700	MCS0	11.19	13.138	23.98	PASS
144	5720(U-NII 2C)	MCS0	15.66	36.81	23.98	PASS
144	5720 (U-NII 3)	MCS0	11.59	14.42	30	PASS
149	5745	MCS0	17.35	54.265	30	PASS
157	5785	MCS0	17.16	51.942	30	PASS
165	5825	MCS0	17.33	54.015	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.09	16.199	23.98	PASS
46	5230	MCS0	17.31	53.887	23.98	PASS
54	5270	MCS0	17.81	60.462	23.98	PASS
62	5310	MCS0	10.93	12.402	23.98	PASS
102	5510	MCS0	12.50	17.802	23.98	PASS
110	5550	MCS0	17.56	57.080	23.98	PASS
134	5670	MCS0	13.35	21.651	23.98	PASS
142	5710(U-NII 2C)	MCS0	16.64	46.15	23.98	PASS
142	5710 (U-NII 3)	MCS0	9.89	9.75	30	PASS
151	5755	MCS0	17.78	60.046	30	PASS
159	5795	MCS0	17.85	61.021	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9.34	8.594	23.98	PASS
58	5290	MCS0	10.30	10.720	23.98	PASS
106	5530	MCS0	9.55	9.020	23.98	PASS
122	5610	MCS0	17.69	58.774	23.98	PASS
138	5690(U-NII 2C)	MCS0	17.09	51.13	23.98	PASS
138	5690 (U-NII 3)	MCS0	8.26	6.70	30	PASS
155	5775	MCS0	17.52	56.518	30	PASS

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9.5.2 ISED EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.39	2.19	16.58	45.475	22.2	PASS
44	5220	17.40	2.19	19.59	90.944	22.21	PASS
48	5240	17.41	2.19	19.60	91.154	22.23	PASS
52	5260	17.84	1.97	19.81	95.670	22.23	PASS
60	5300	17.93	1.97	19.90	97.673	22.23	PASS
64	5320	15.44	1.97	17.41	55.052	22.21	PASS
100	5500	12.43	0.13	12.56	18.021	22.21	PASS
116	5580	17.69	0.13	17.82	60.503	22.24	PASS
140	5700	13.57	0.13	13.70	23.430	22.2	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.94	2.19	15.13	32.547	22.49	PASS
44	5220	17.07	2.19	19.26	84.240	22.51	PASS
48	5240	17.40	2.19	19.59	90.890	22.5	PASS
52	5260	17.53	1.97	19.50	89.026	22.5	PASS
60	5300	17.63	1.97	19.60	91.100	22.51	PASS
64	5320	14.20	1.97	16.17	41.354	22.49	PASS
100	5500	11.04	0.13	11.17	13.077	22.49	PASS
116	5580	17.48	0.13	17.61	57.613	22.5	PASS
140	5700	11.19	0.13	11.32	13.537	22.49	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.09	2.19	14.28	26.821	23.01	PASS
46	5230	17.31	2.19	19.50	89.224	23.01	PASS
54	5270	17.81	1.97	19.78	95.166	25.58	PASS
62	5310	10.93	1.97	12.90	19.520	25.57	PASS
102	5510	12.50	0.13	12.63	18.343	25.59	PASS
110	5550	17.56	0.13	17.69	58.814	25.59	PASS
134	5670	13.35	0.13	13.48	22.309	25.57	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.34	2.19	11.53	14.229	23.01	PASS
58	5290	10.30	1.97	12.27	16.873	28.79	PASS
106	5530	9.55	0.13	9.68	9.294	28.78	PASS

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9.5.3 Conducted output power (ISED)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.84	60.782	23.23	PASS
60	5300	17.93	62.055	23.23	PASS
64	5320	15.44	34.976	23.21	PASS
100	5500	12.43	17.489	23.21	PASS
116	5580	17.69	58.718	23.24	PASS
140	5700	13.57	22.739	23.20	PASS
144	5720(U-NII 2C)	16.10	40.693	22.25	PASS
144	5720 (U-NII 3)	11.69	14.741	30	PASS
149	5745	17.54	56.725	30	PASS
157	5785	17.47	55.818	30	PASS
165	5825	17.83	60.642	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.53	56.561	23.5	PASS
60	5300	17.63	57.878	23.51	PASS
64	5320	14.20	26.273	23.49	PASS
100	5500	11.04	12.692	23.49	PASS
116	5580	17.48	55.914	23.5	PASS
140	5700	11.19	13.138	23.49	PASS
144	5720(U-NII 2C)	15.66	36.810	22.43	PASS
144	5720 (U-NII 3)	11.59	14.419	30	PASS
149	5745	17.35	54.265	30	PASS
157	5785	17.16	51.942	30	PASS
165	5825	17.33	54.015	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.81	60.462	23.98	PASS
62	5310	10.93	12.402	23.98	PASS
102	5510	12.50	17.802	23.98	PASS
110	5550	17.56	57.080	23.98	PASS
134	5670	13.35	21.651	23.98	PASS
142	5710(U-NII 2C)	16.64	46.154	23.98	PASS
142	5710 (U-NII 3)	9.89	9.755	30	PASS
151	5755	17.78	60.046	30	PASS
159	5795	17.85	61.021	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	10.30	10.720	23.98	PASS
106	5530	9.55	9.020	23.98	PASS
122	5610	17.69	58.774	23.98	PASS
138	5690(U-NII 2C)	17.09	51.134	23.98	PASS
138	5690 (U-NII 3)	8.26	6.700	30	PASS
155	5775	17.52	56.518	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1	<input type="checkbox"/>	Access Point (Master device)	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Ponit	
	<input checked="" type="checkbox"/>	Mobile and portable client device	11dBm/ MHz
U-NII-2A	<input checked="" type="checkbox"/>		11dBm/ MHz
U-NII-2C	<input checked="" type="checkbox"/>		11dBm/ MHz
U-NII-3	<input checked="" type="checkbox"/>		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

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

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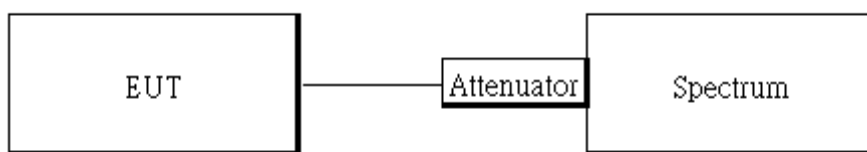
10.2 Measurement Procedure

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 Spectrum.
4. **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 (601 pts), detector = sample, 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= approximately 1% of EBW, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

10.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

10.4 Test Set-up



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10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.662	4.66		11.00 dBm/MHz	-6.34
5220	7.435	7.44		11.00 dBm/MHz	-3.57
5240	7.302	7.30		11.00 dBm/MHz	-3.70
5260	7.631	7.63		11.00 dBm/MHz	-3.37
5300	7.645	7.65		11.00 dBm/MHz	-3.36
5320	5.241	5.24		11.00 dBm/MHz	-5.76
5500	2.355	2.36		11.00 dBm/MHz	-8.65
5580	7.665	7.67		11.00 dBm/MHz	-3.34
5700	4.070	4.07		11.00 dBm/MHz	-6.93
5720 (U-NII 2C)	7.629	7.63		11.00 dBm/MHz	-3.37
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-0.161	2.22	2.06	30.00 dBm/500kHz	-27.94
5745	2.933	2.22	5.15	30.00 dBm/500kHz	-24.85
5785	2.428	2.22	4.65	30.00 dBm/500kHz	-25.35
5825	2.682	2.22	4.90	30.00 dBm/500kHz	-25.10

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POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	2.750	3.07		11.00 dBm/MHz	-7.93
5220	6.425	6.75		11.00 dBm/MHz	-4.26
5240	6.691	7.01		11.00 dBm/MHz	-3.99
5260	6.914	7.23		11.00 dBm/MHz	-3.77
5300	7.049	7.37		11.00 dBm/MHz	-3.63
5320	2.982	3.30		11.00 dBm/MHz	-7.70
5500	0.217	0.54		11.00 dBm/MHz	-10.46
5580	6.953	7.27		11.00 dBm/MHz	-3.73
5700	0.986	1.31		11.00 dBm/MHz	-9.69
5720 (U-NII 2C)	6.676	7.00		11.00 dBm/MHz	-4.00
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-0.199	2.22	2.34	30.00 dBm/500kHz	-27.66
5745	2.181	2.22	4.72	30.00 dBm/500kHz	-25.28
5785	2.542	2.22	5.08	30.00 dBm/500kHz	-24.92
5825	1.622	2.22	4.16	30.00 dBm/500kHz	-25.84

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-1.343	-0.74		11.00 dBm/MHz	-11.74
5230	3.660	4.26		11.00 dBm/MHz	-6.74
5270	4.425	5.03		11.00 dBm/MHz	-5.98
5310	-3.401	-2.80		11.00 dBm/MHz	-13.80
5510	-1.294	-0.69		11.00 dBm/MHz	-11.69
5550	3.596	4.20		11.00 dBm/MHz	-6.80
5670	-0.416	0.18		11.00 dBm/MHz	-10.82
5710 (U-NII 2C)	3.173	3.77		11.00 dBm/MHz	-7.23
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-4.067	2.22	-1.25	30.00 dBm/500kHz	-31.25
5755	-1.409	2.22	1.41	30.00 dBm/500kHz	-28.59
5795	-0.686	2.22	2.13	30.00 dBm/500kHz	-27.87

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-7.664	-6.47		11.00 dBm/MHz	-17.47
5290	-7.180	-5.99		11.00 dBm/MHz	-16.99
5530	-7.872	-6.68		11.00 dBm/MHz	-17.68
5610	0.796	1.99		11.00 dBm/MHz	-9.01
5690 (U-NII 2C)	0.315	1.51		11.00 dBm/MHz	-9.50
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-7.289	2.22	-3.88	30.00 dBm/500kHz	-33.88
5775	-4.645	2.22	-1.24	30.00 dBm/500kHz	-31.24

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10.5.2 EIRP spectral density (ISED)

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	4.66	2.19	6.85	10	-3.15
5220	7.44	2.19	9.63	10	-0.38
5240	7.30	2.19	9.49	10	-0.51

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	3.07	2.19	5.26	10	-4.74
5220	6.75	2.19	8.94	10	-1.07
5240	7.01	2.19	9.20	10	-0.80

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5190	-0.74	2.19	1.45	10	-8.55
5230	4.26	2.19	6.45	10	-3.55

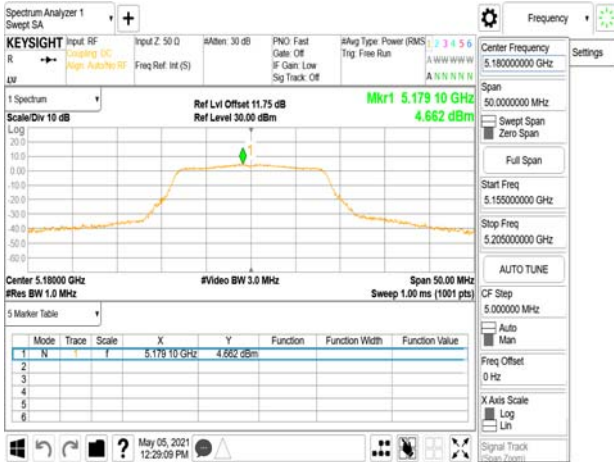
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-6.47	2.19	-4.28	10	-14.28

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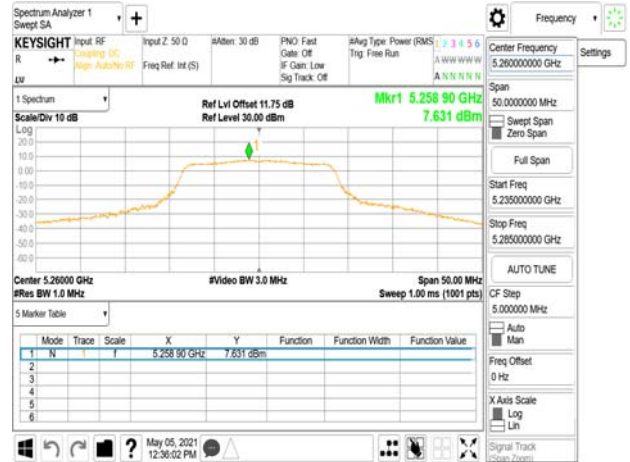
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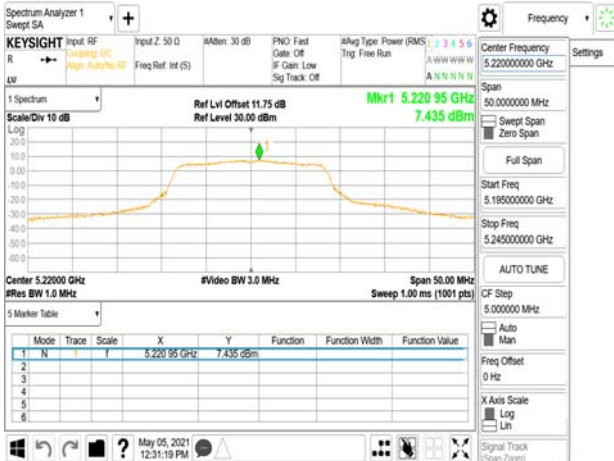
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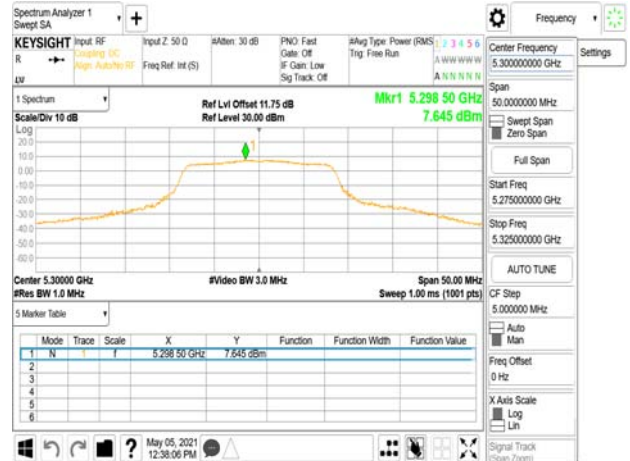
802.11a_20MHz_Chain0_5260MHz



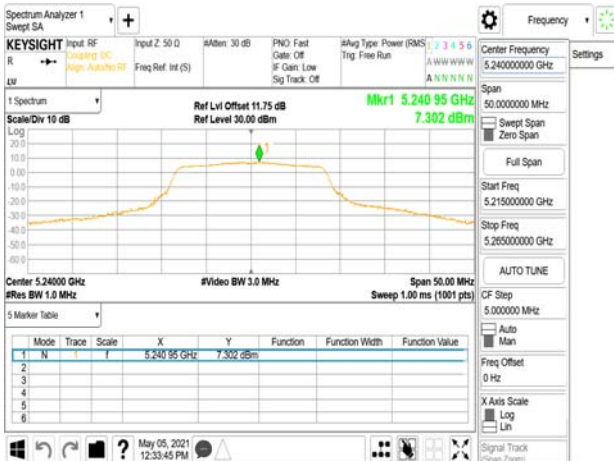
802.11a_20MHz_Chain0_5220MHz



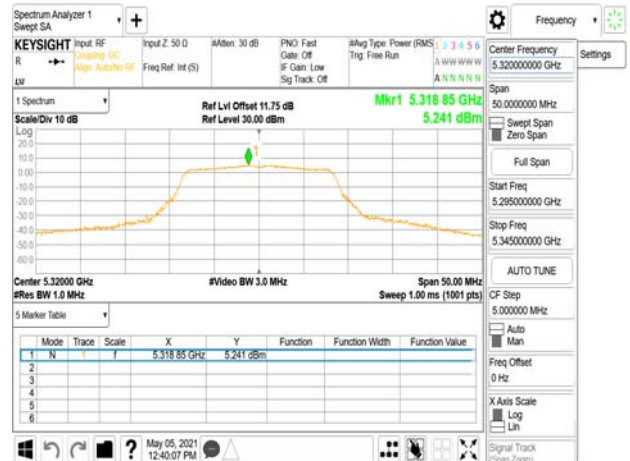
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

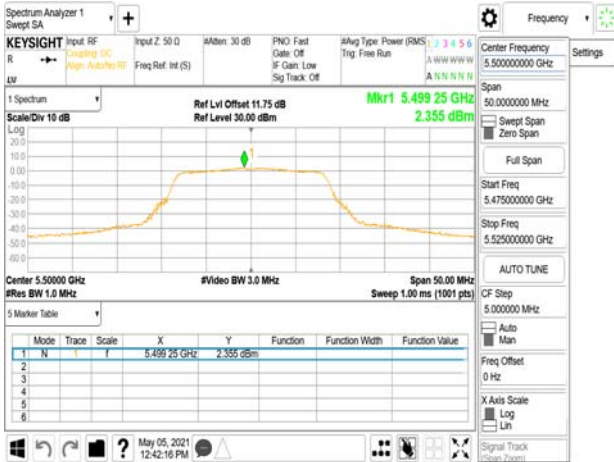


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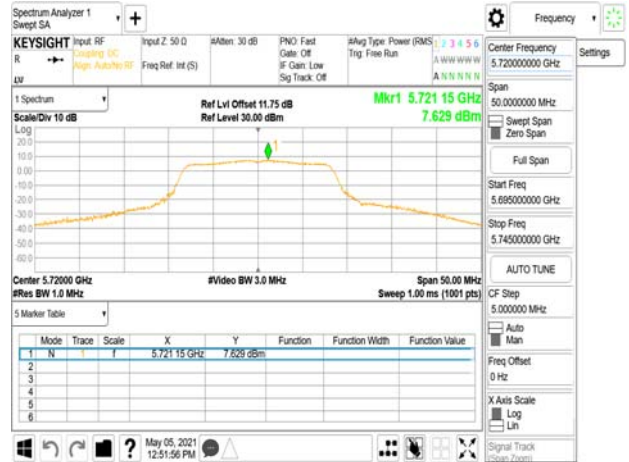
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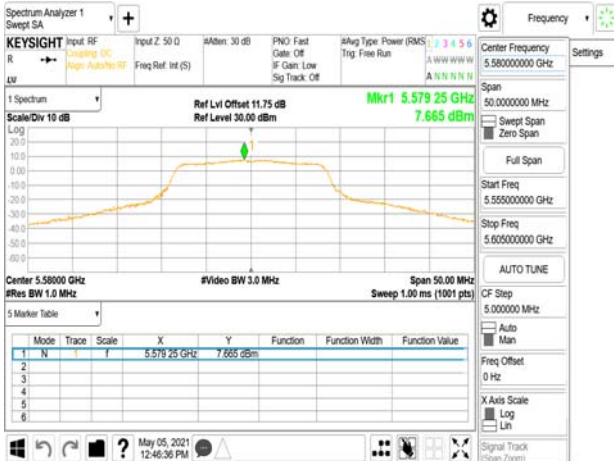
802.11a_20MHz_Chain0_5500MHz



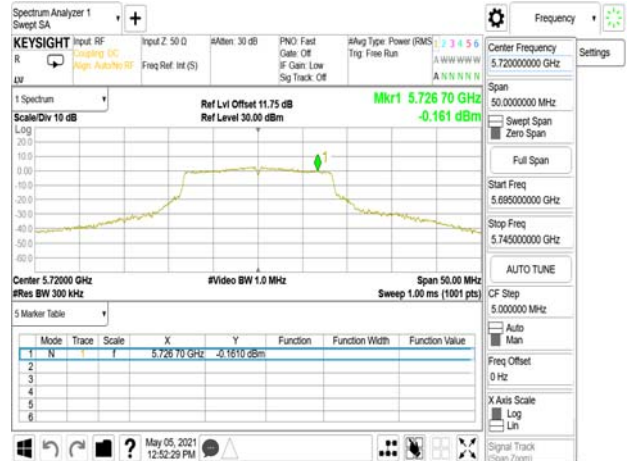
802.11a_20MHz_Chain0_5720MHz_UNII 2C



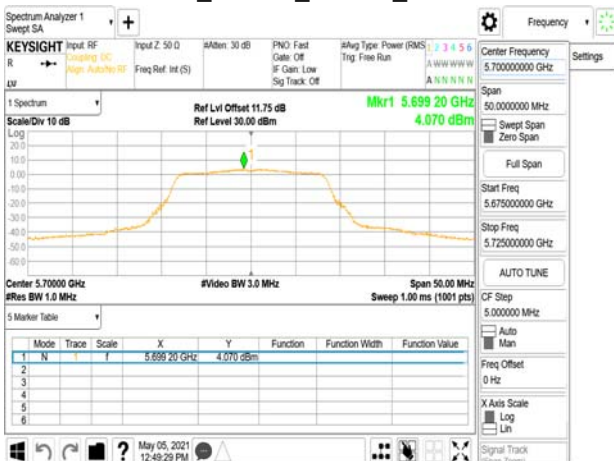
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz

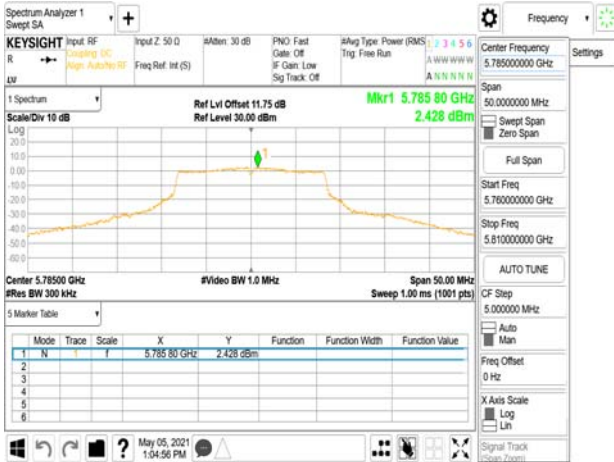


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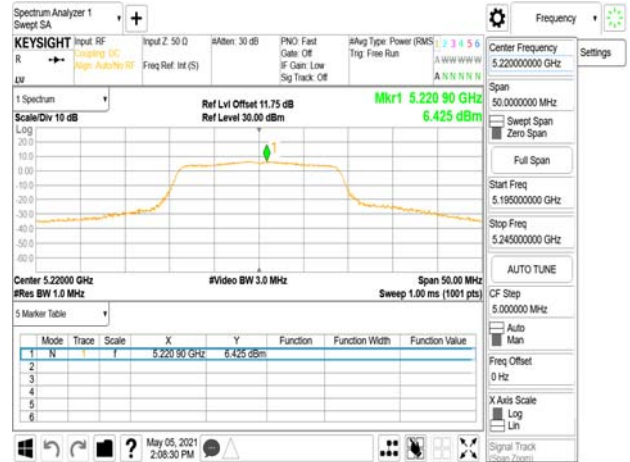
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802.11a_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5220MHz



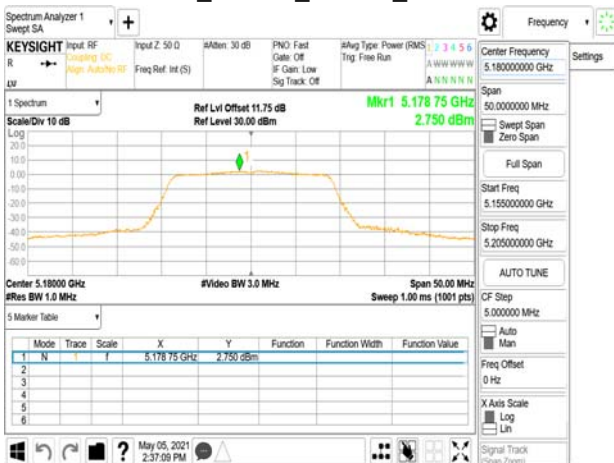
802.11a_20MHz_Chain0_5825MHz



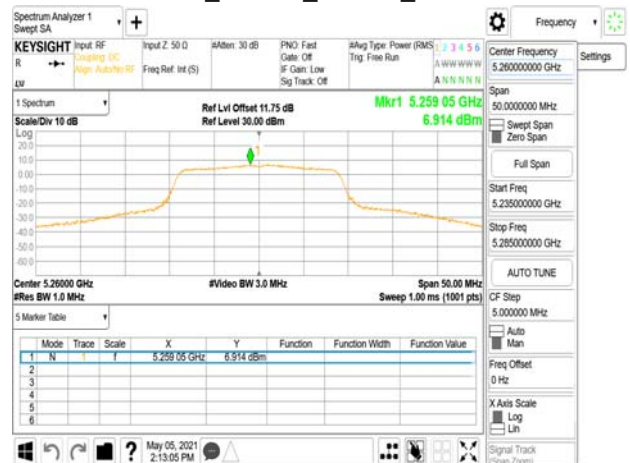
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz

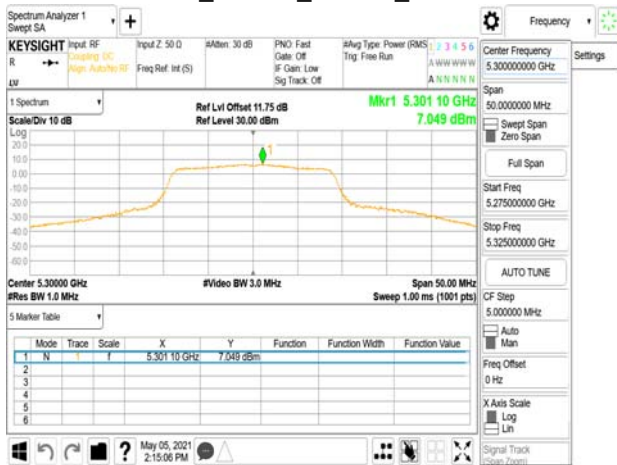


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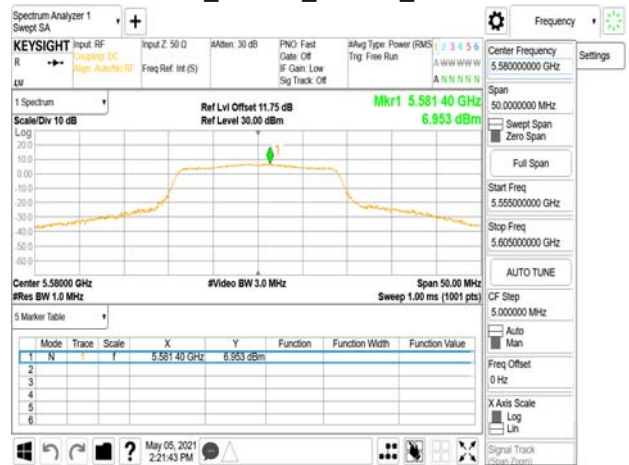
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802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz



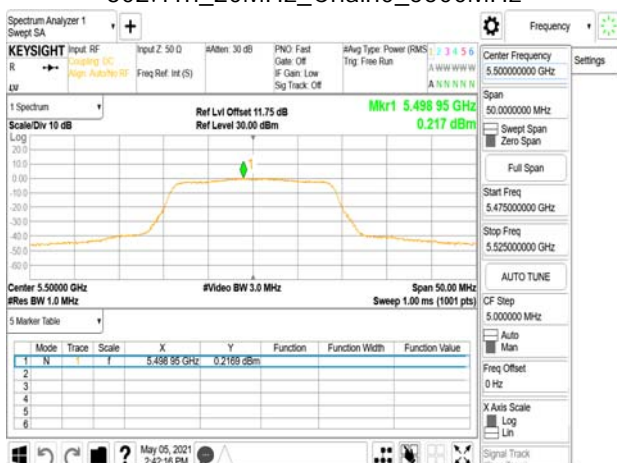
802.11n_20MHz_Chain0_5320MHz



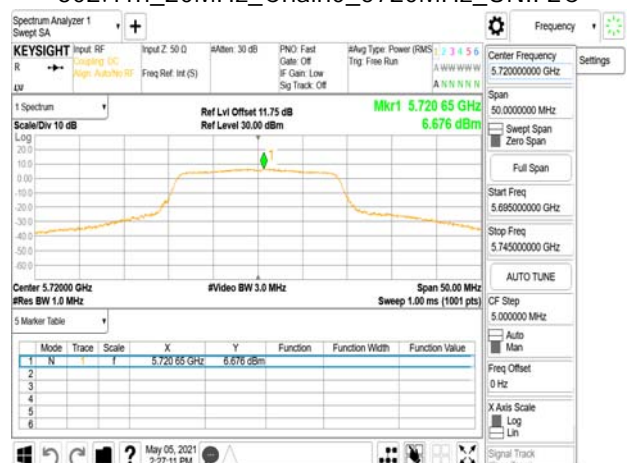
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C

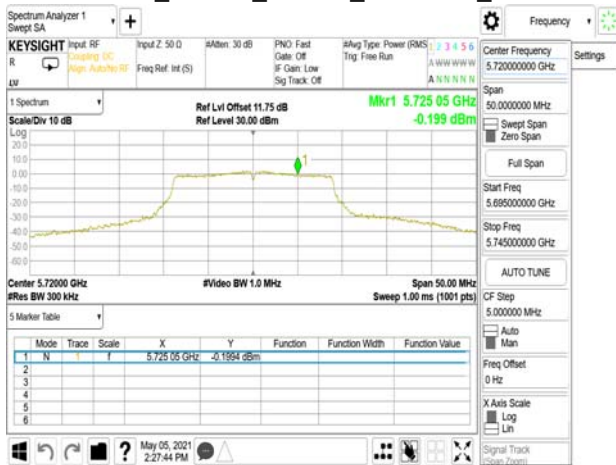


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802.11n_20MHz_Chain0_5720MHz_UNII 3



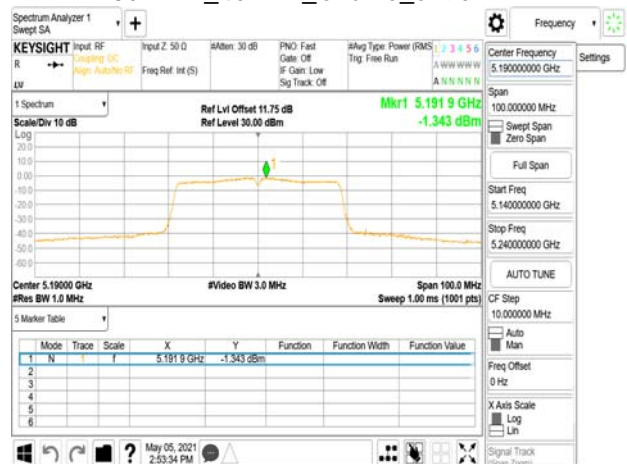
802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5745MHz



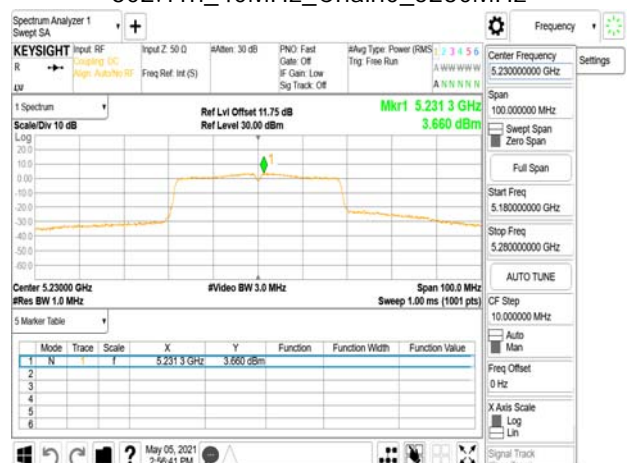
802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_40MHz_Chain0_5230MHz

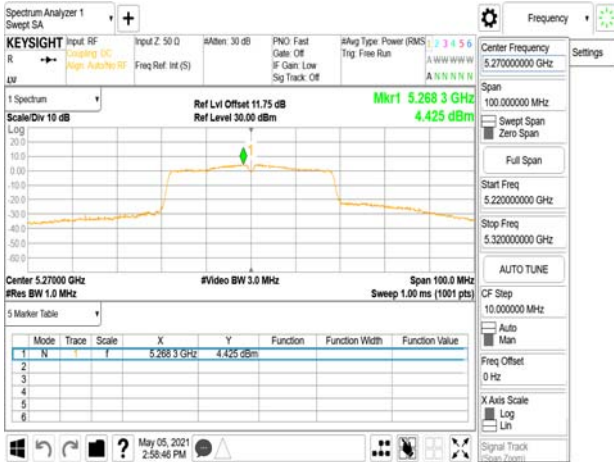


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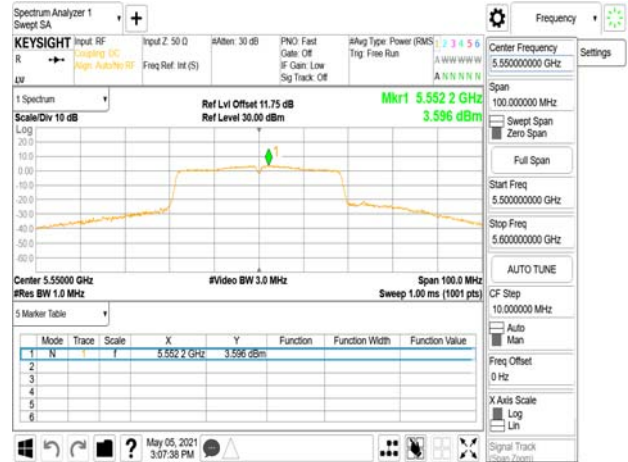
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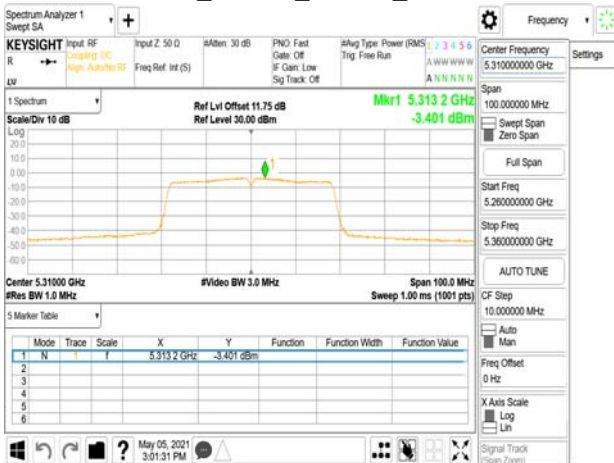
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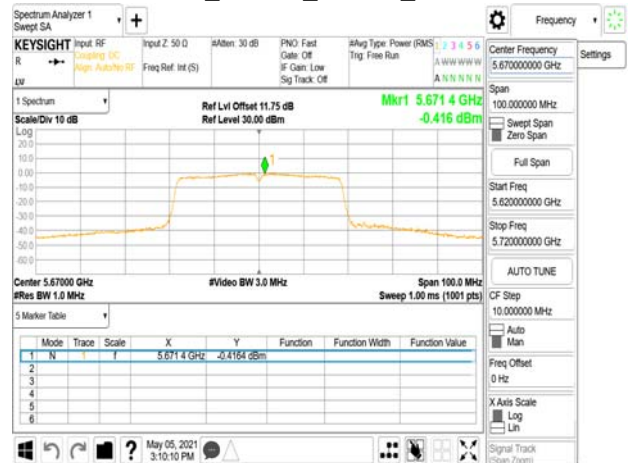
802.11n_40MHz_Chain0_5550MHz



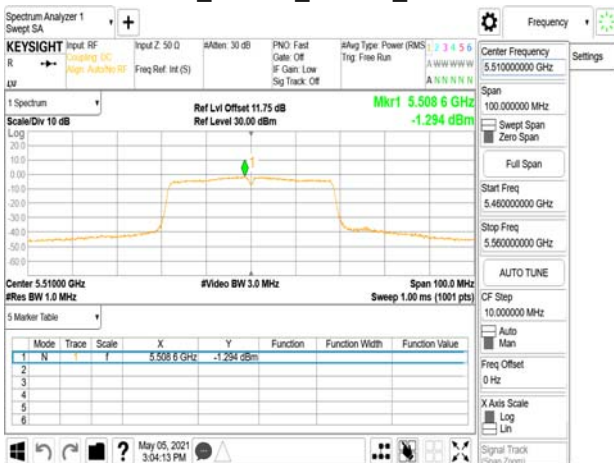
802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz_UNII 2C



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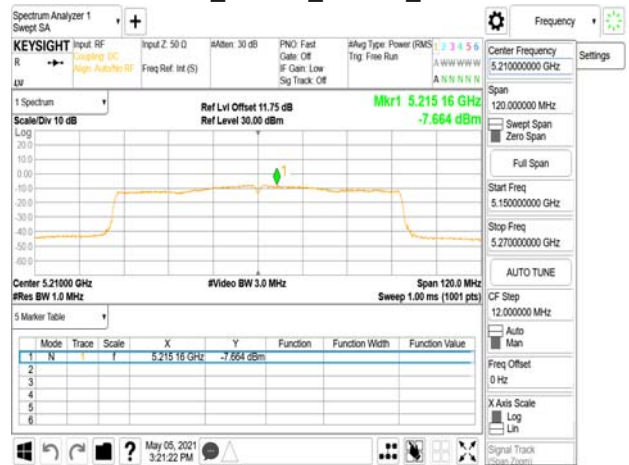
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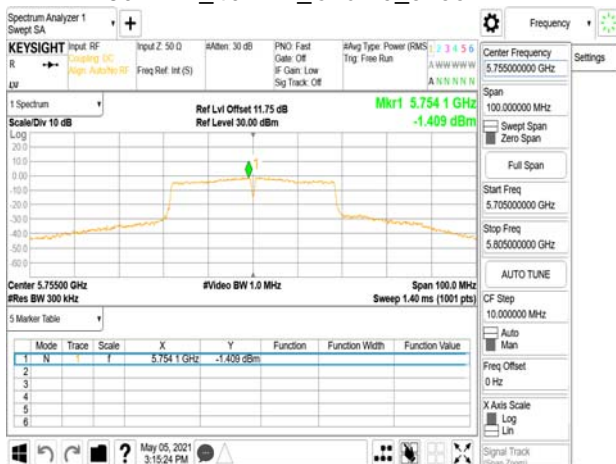
802.11n_40MHz_Chain0_5710MHz_UNII 3



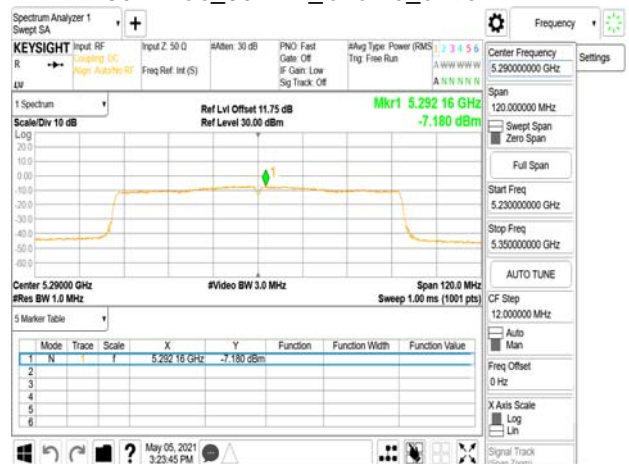
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802.11n_40MHz_Chain0_5755MHz



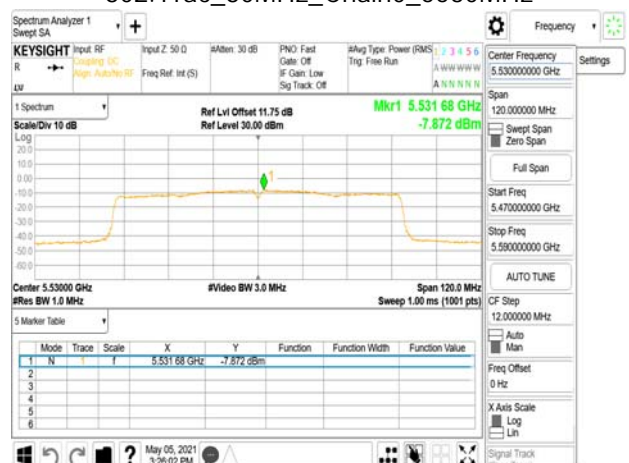
802.11ac_80MHz_Chain0_5290MHz



802.11n_40MHz_Chain0_5795MHz



802.11ac_80MHz_Chain0_5530MHz

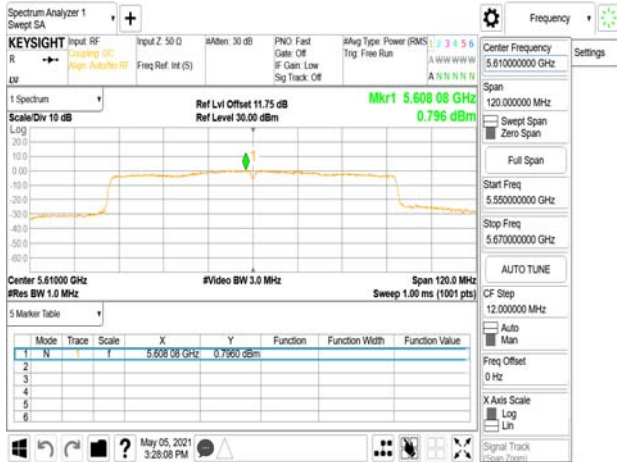


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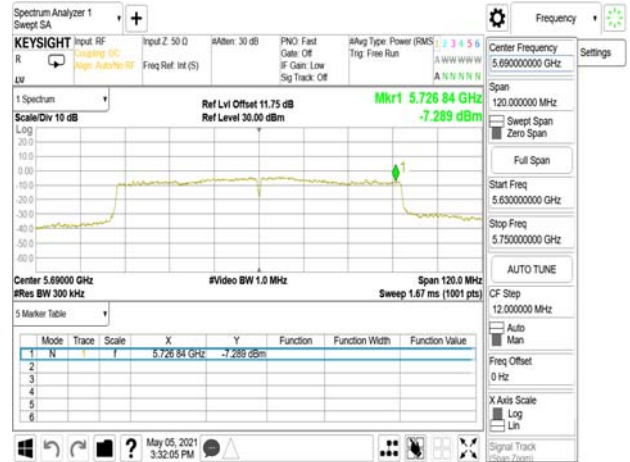
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802.11ac_80MHz_Chain0_5610MHz



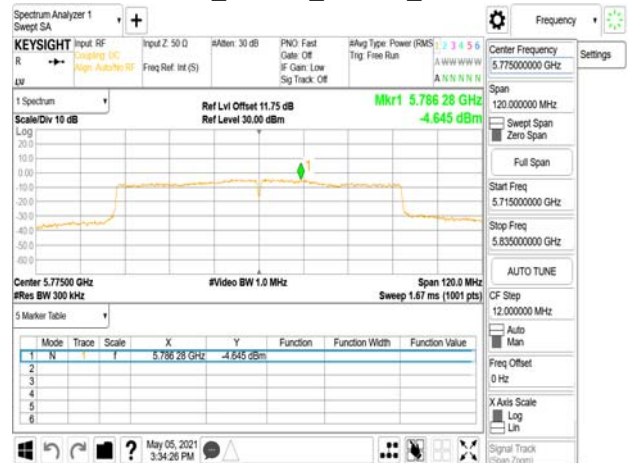
802.11ac_80MHz_Chain0_5690MHz_UNII 3



802.11ac_80MHz_Chain0_5690MHz_UNII 2C



802.11ac_80MHz_Chain0_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 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: 68.3 (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. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *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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11.1.2 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.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

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11.2 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	10/16/2020	10/15/2021
Bi-log Antenna	SCHWAZBECK	VULB9168	378	08/06/2020	08/05/2021
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
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 III chamber	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

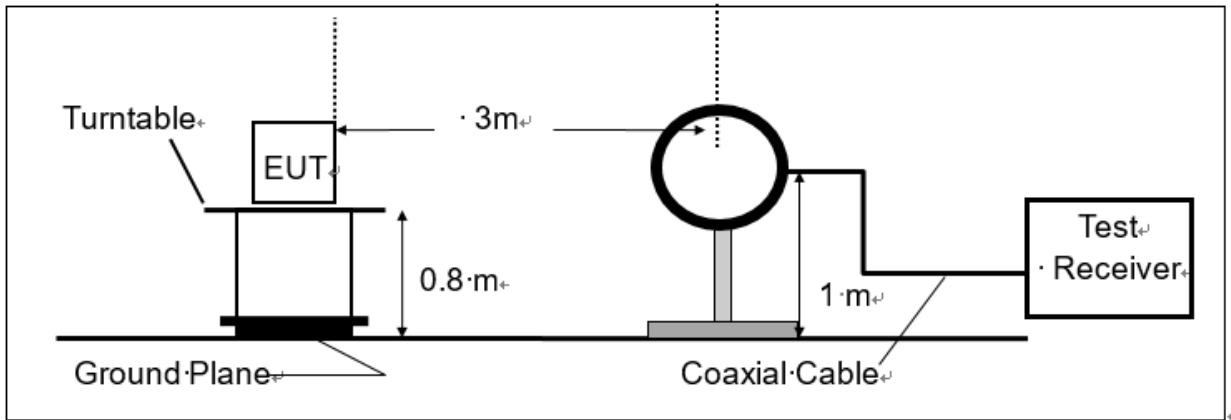
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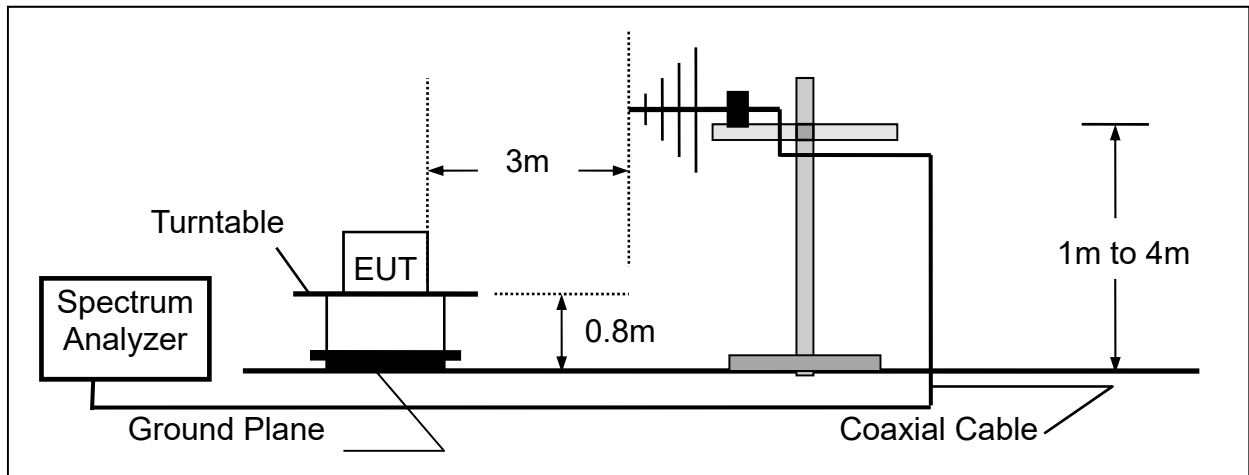
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11.3 Test SET-UP

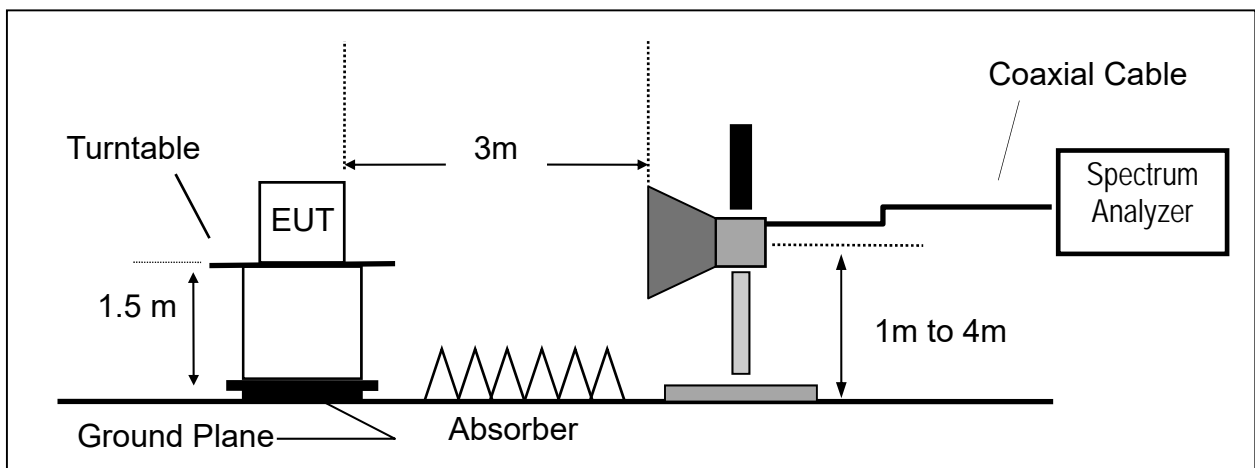
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. Repeat above procedures until all frequency measured were complete.

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11.5 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)

11.6 Test Results of Radiated Spurious Emissions form 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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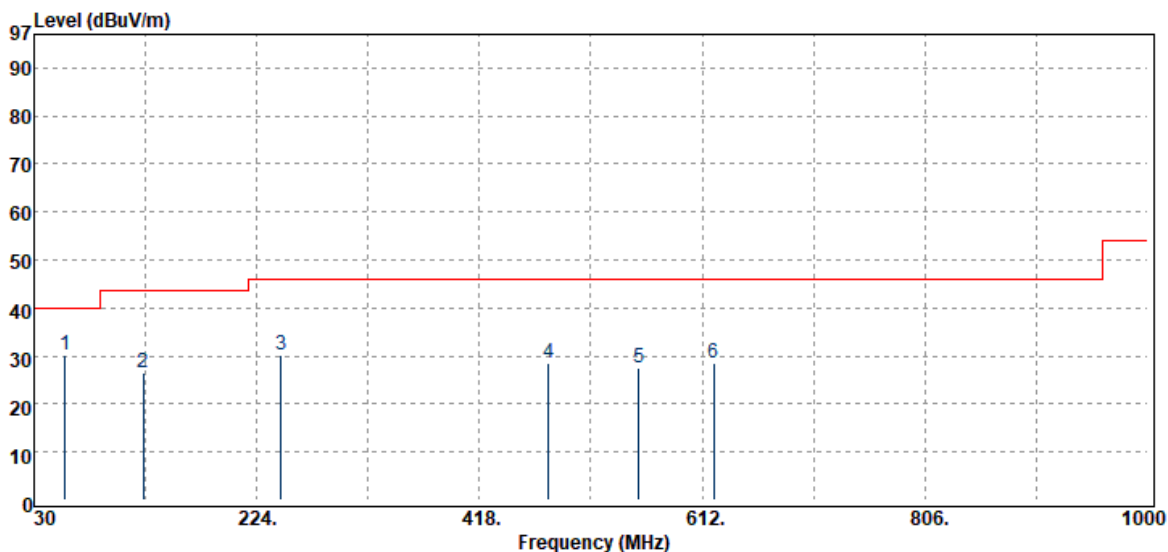
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5220 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.16	Peak	39.39	-9.02	30.37	40.00	-9.63
125.06	Peak	36.08	-9.47	26.61	43.50	-16.89
245.34	Peak	39.16	-8.96	30.20	46.00	-15.80
478.14	Peak	31.64	-3.14	28.50	46.00	-17.50
556.71	Peak	29.42	-1.91	27.51	46.00	-18.49
621.70	Peak	28.98	-0.37	28.61	46.00	-17.39

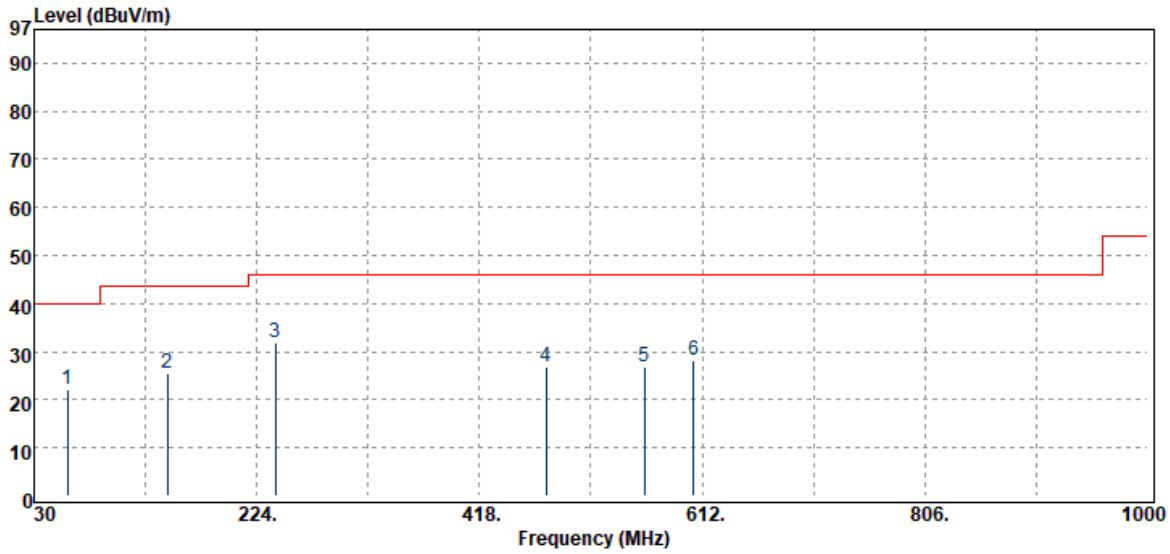
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
59.10	Peak	31.39	-9.27	22.12	40.00	-17.88
146.40	Peak	33.76	-8.10	25.66	43.50	-17.84
240.49	Peak	41.03	-9.04	31.99	46.00	-14.01
476.20	Peak	30.01	-3.11	26.90	46.00	-19.10
561.56	Peak	28.66	-1.74	26.92	46.00	-19.08
604.24	Peak	28.48	-0.20	28.28	46.00	-17.72

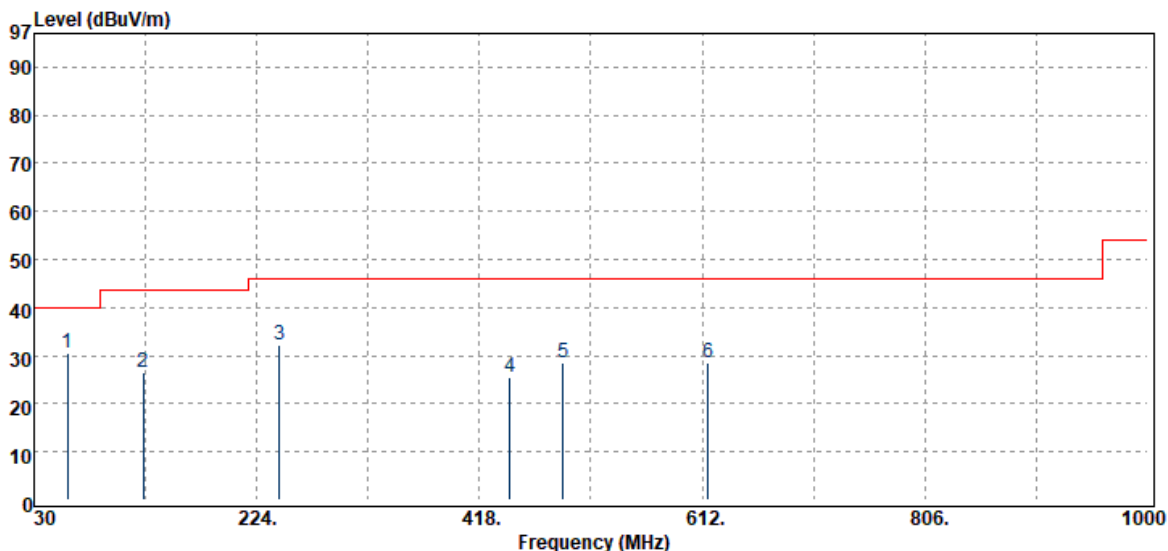
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
59.10	Peak	39.86	-9.27	30.59	40.00	-9.41
125.06	Peak	35.93	-9.47	26.46	43.50	-17.04
243.40	Peak	41.24	-9.00	32.24	46.00	-13.76
444.19	Peak	28.97	-3.44	25.53	46.00	-20.47
490.75	Peak	31.69	-3.15	28.54	46.00	-17.46
616.85	Peak	28.59	-0.13	28.46	46.00	-17.54

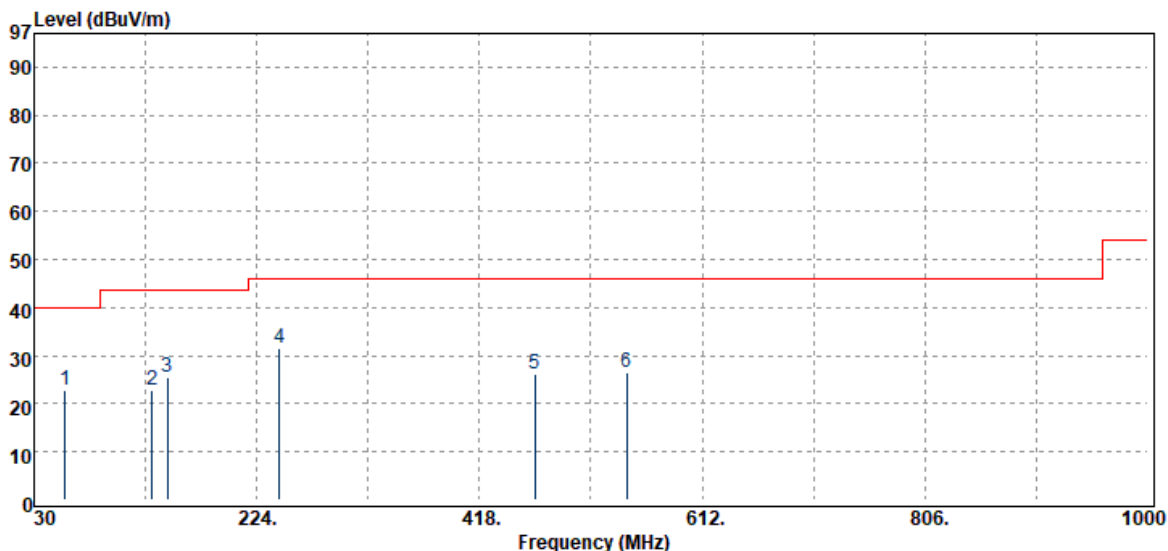
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



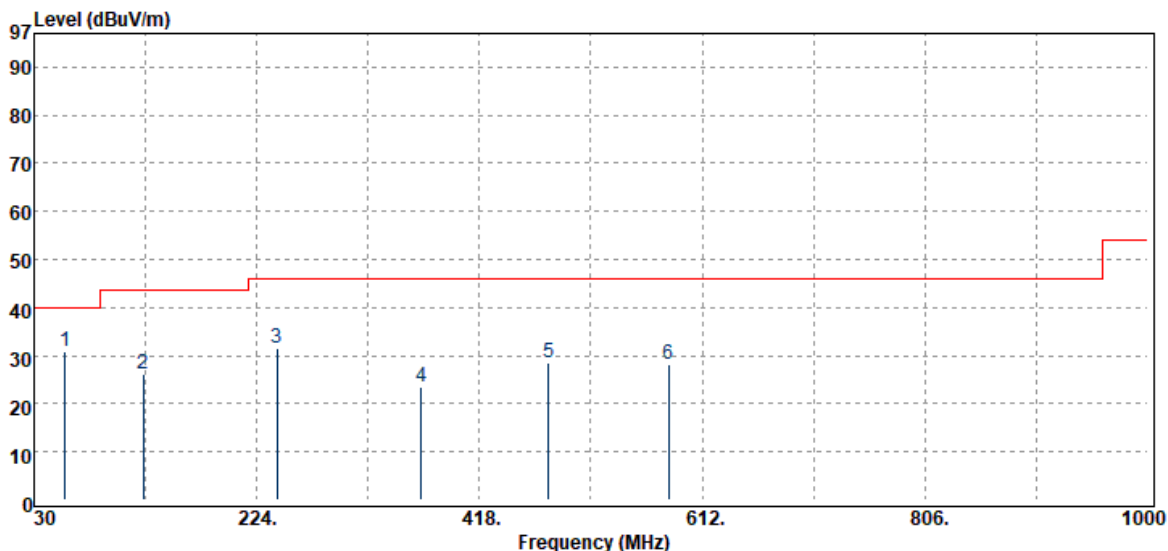
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
57.16	Peak	31.69	-9.02	22.67	40.00	-17.33
132.82	Peak	31.80	-8.87	22.93	43.50	-20.57
146.40	Peak	33.46	-8.10	25.36	43.50	-18.14
243.40	Peak	40.42	-9.00	31.42	46.00	-14.58
466.50	Peak	29.08	-3.03	26.05	46.00	-19.95
546.04	Peak	28.48	-1.99	26.49	46.00	-19.51

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Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5580 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.16	Peak	39.81	-9.02	30.79	40.00	-9.21
125.06	Peak	35.76	-9.47	26.29	43.50	-17.21
241.46	Peak	40.70	-9.02	31.68	46.00	-14.32
367.56	Peak	28.83	-5.42	23.41	46.00	-22.59
478.14	Peak	31.65	-3.14	28.51	46.00	-17.49
582.90	Peak	28.83	-0.73	28.10	46.00	-17.90

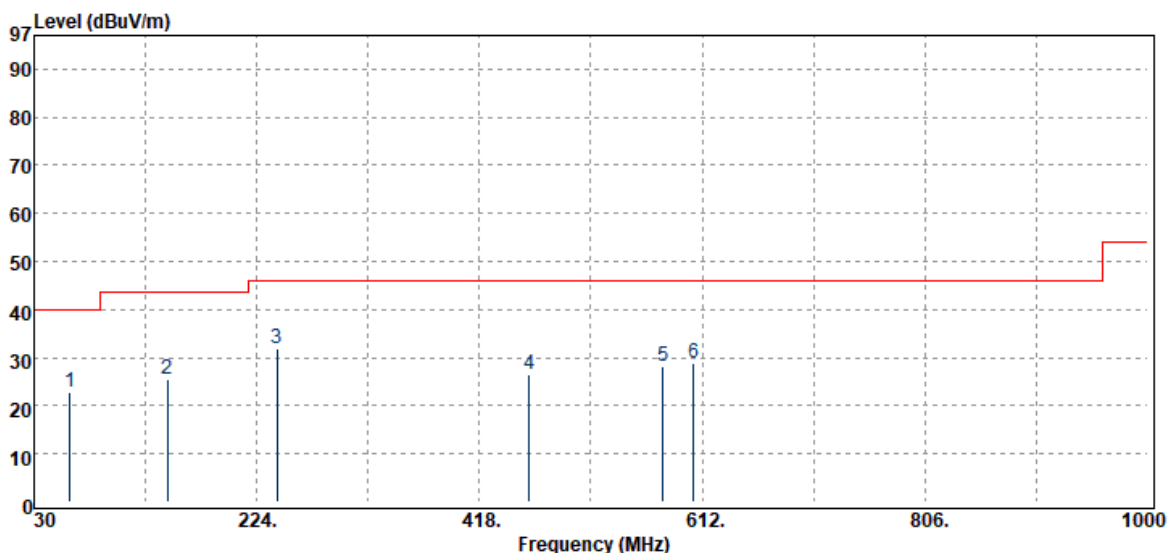
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
61.04	Peak	32.15	-9.19	22.96	40.00	-17.04
146.40	Peak	33.52	-8.10	25.42	43.50	-18.08
241.46	Peak	40.78	-9.02	31.76	46.00	-14.24
461.65	Peak	29.53	-3.02	26.51	46.00	-19.49
578.05	Peak	28.98	-0.91	28.07	46.00	-17.93
604.24	Peak	29.22	-0.20	29.02	46.00	-16.98

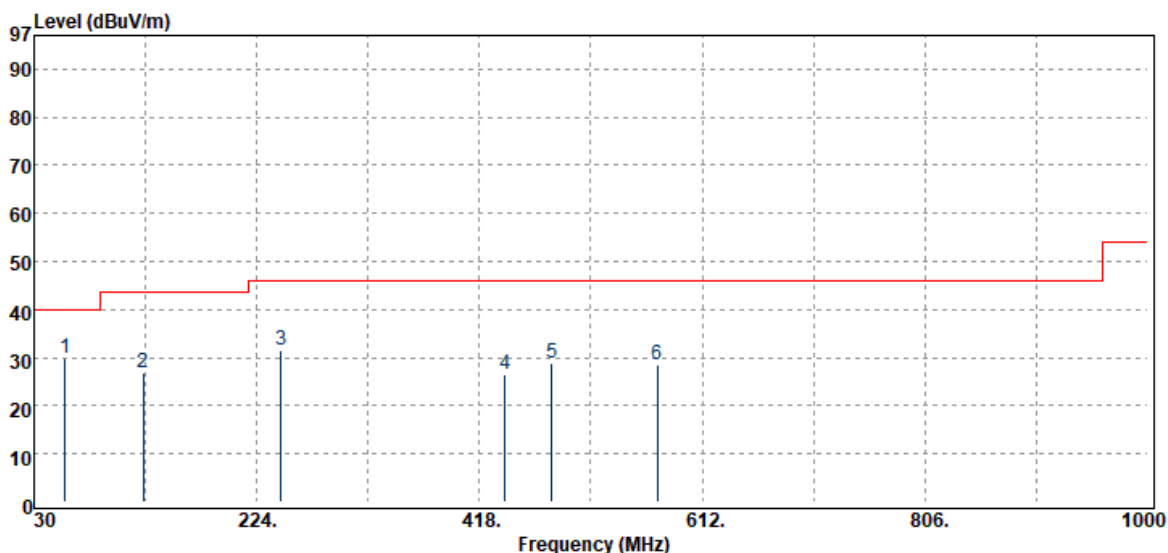
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
57.16	Peak	38.82	-9.02	29.80	40.00	-10.20
125.06	Peak	36.16	-9.47	26.69	43.50	-16.81
245.34	Peak	40.54	-8.96	31.58	46.00	-14.42
440.31	Peak	29.88	-3.44	26.44	46.00	-19.56
481.05	Peak	31.98	-3.19	28.79	46.00	-17.21
573.20	Peak	29.87	-1.23	28.64	46.00	-17.36

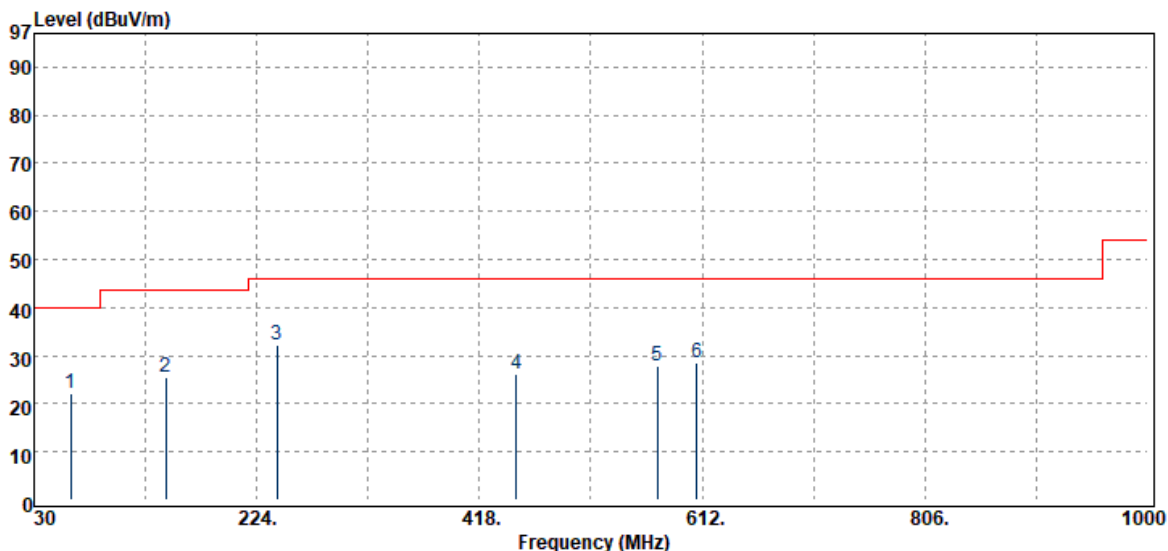
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
62.01	Peak	31.63	-9.55	22.08	40.00	-17.92
144.46	Peak	33.73	-8.09	25.64	43.50	-17.86
241.46	Peak	41.23	-9.02	32.21	46.00	-13.79
450.01	Peak	29.27	-3.25	26.02	46.00	-19.98
573.20	Peak	28.97	-1.23	27.74	46.00	-18.26
607.15	Peak	28.45	-0.06	28.39	46.00	-17.61

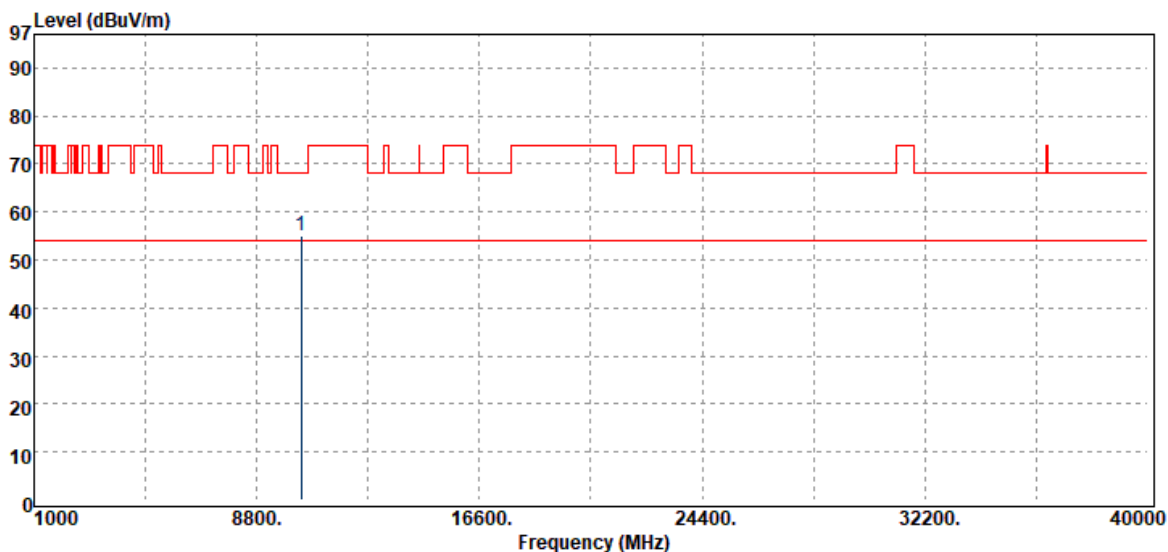
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11.7.2 Above 1GHz Worst-Case Data:

Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5180 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen

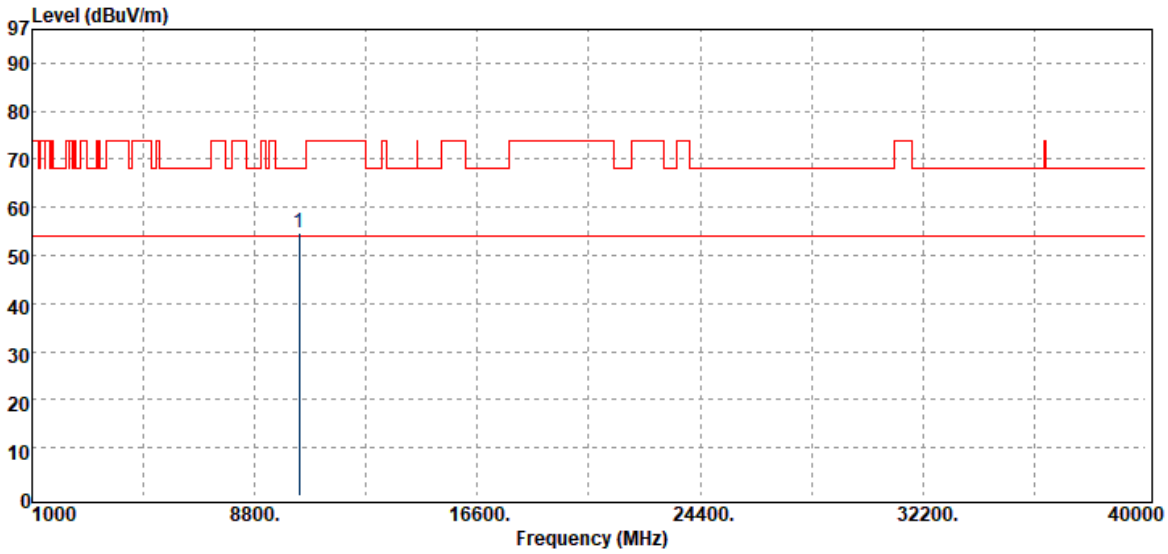


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	35.01	19.87	54.88	68.20	-13.32

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Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5180 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



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
10360.00	Peak	34.96	19.87	54.83	68.20	-13.37

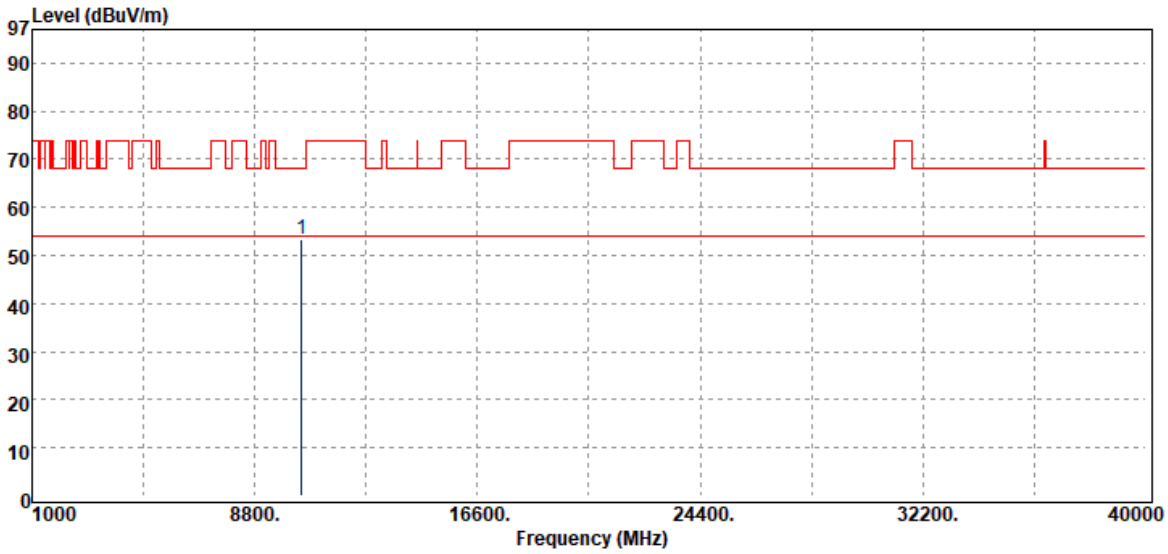
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



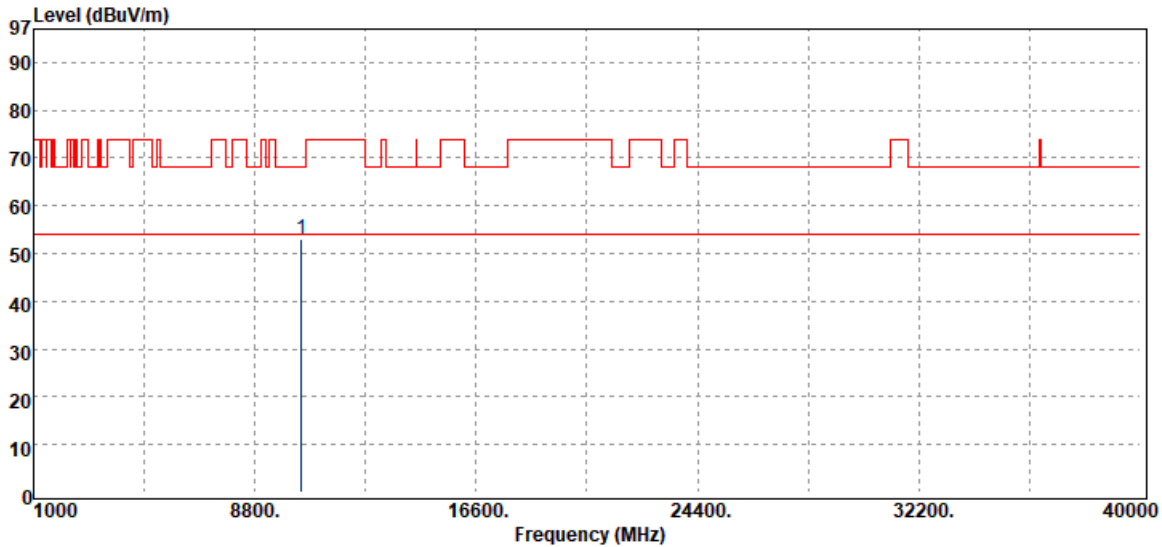
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	34.35	19.15	53.50	68.20	-14.70

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Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5220 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



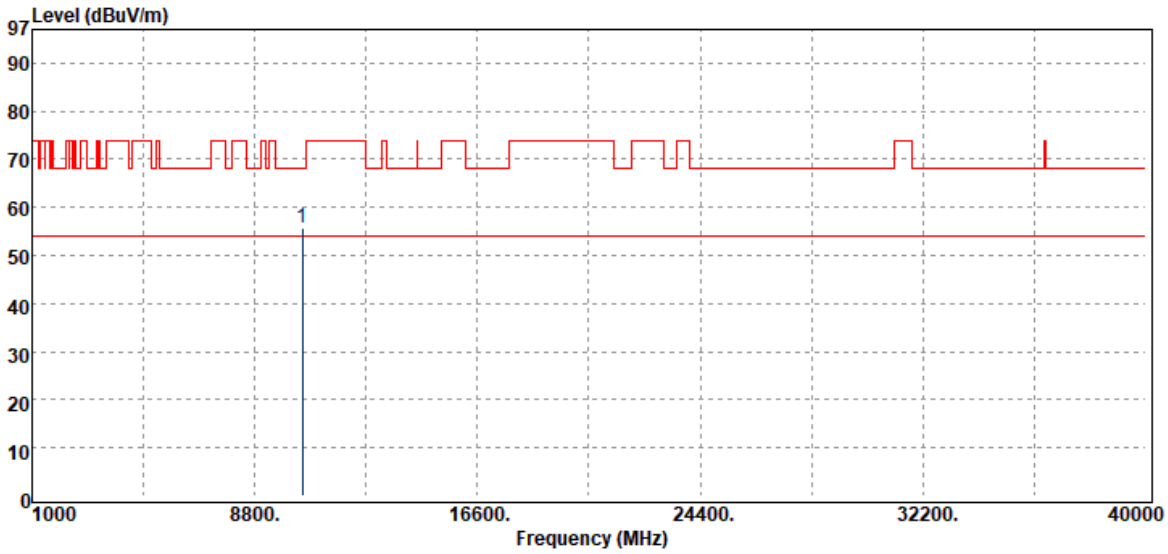
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	33.85	19.15	53.00	68.20	-15.20

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Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5240 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



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
10480.00	Peak	36.14	19.56	55.70	68.20	-12.50

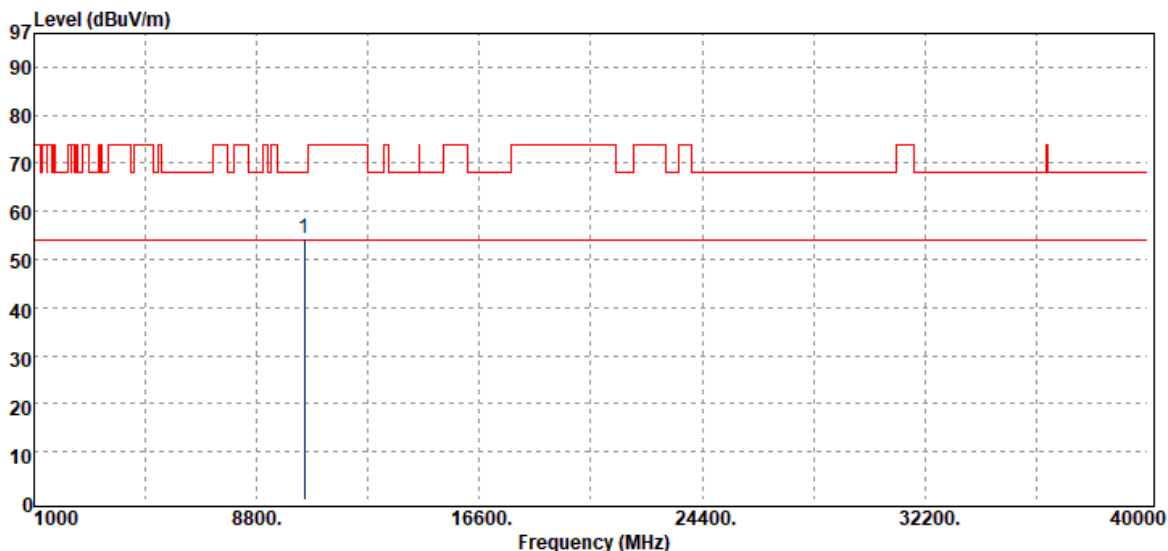
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



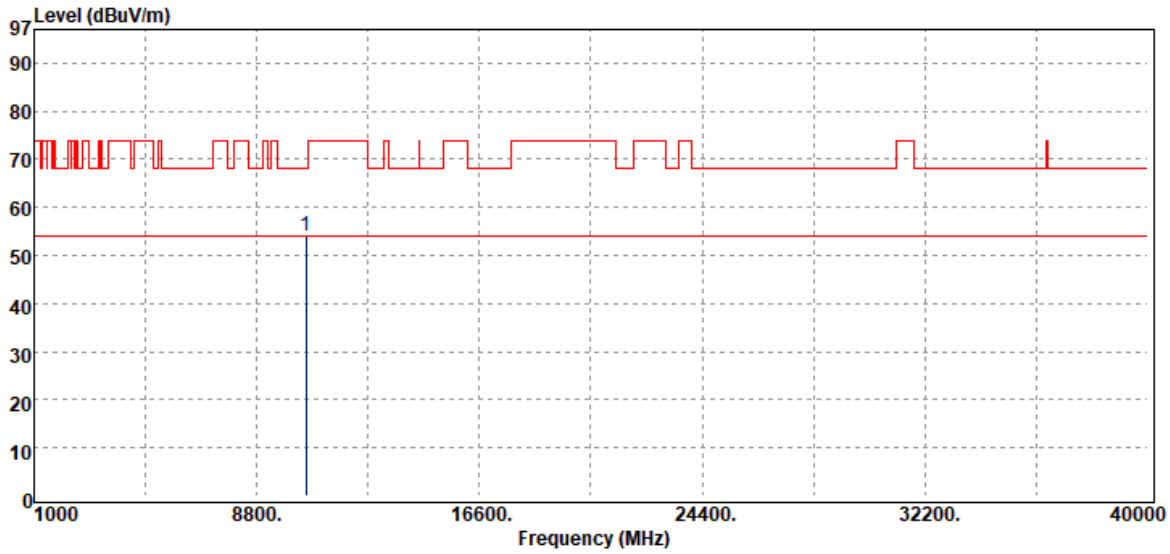
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	34.75	19.56	54.31	68.20	-13.89

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Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5260 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



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
10520.00	Peak	34.25	19.84	54.09	68.20	-14.11

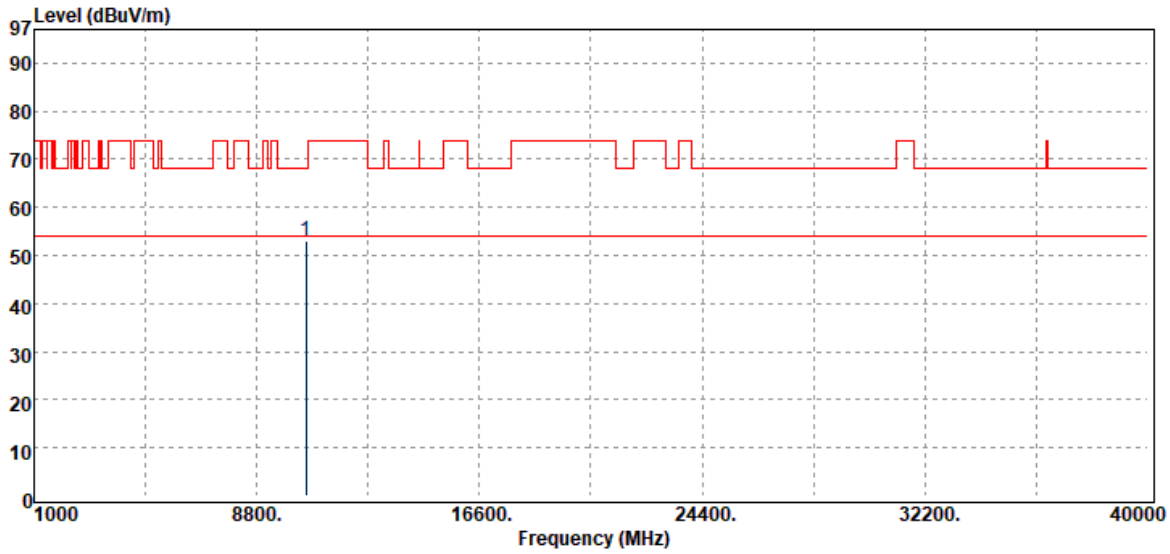
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10520.00	Peak	33.16	19.84	53.00	68.20	-15.20

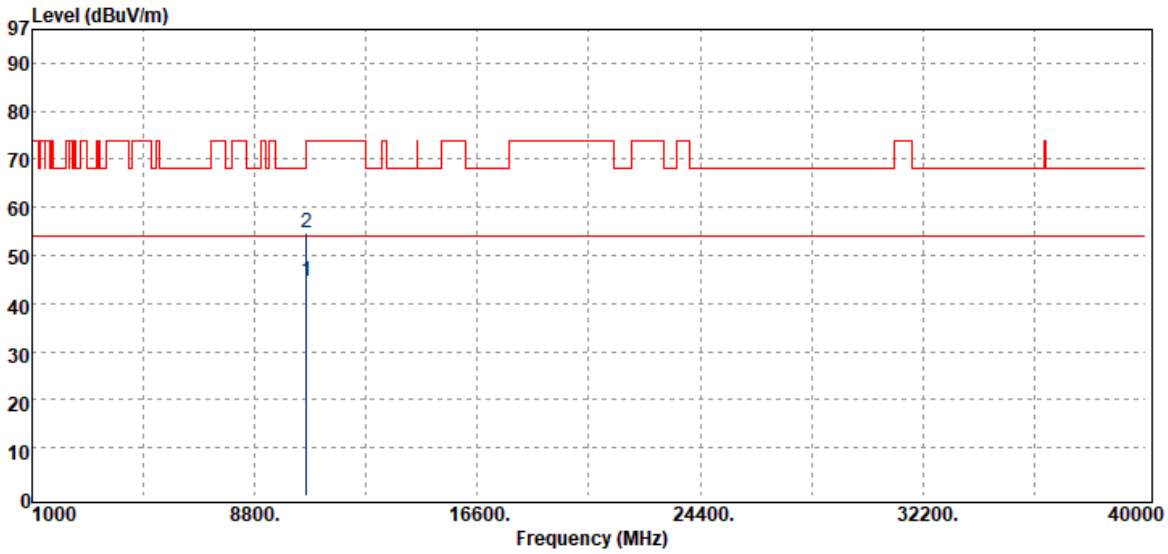
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10600.00	Average	24.76	19.86	44.62	54.00	-9.38
10600.00	Peak	34.69	19.86	54.55	74.00	-19.45

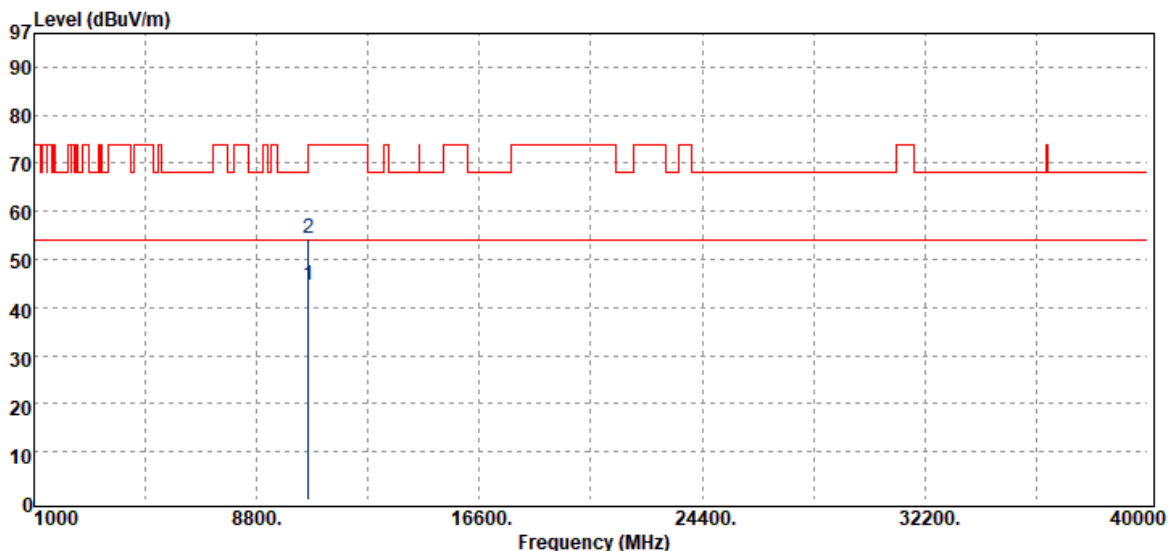
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10600.00	Average	24.72	19.86	44.58	54.00	-9.42
10600.00	Peak	34.53	19.86	54.39	74.00	-19.61

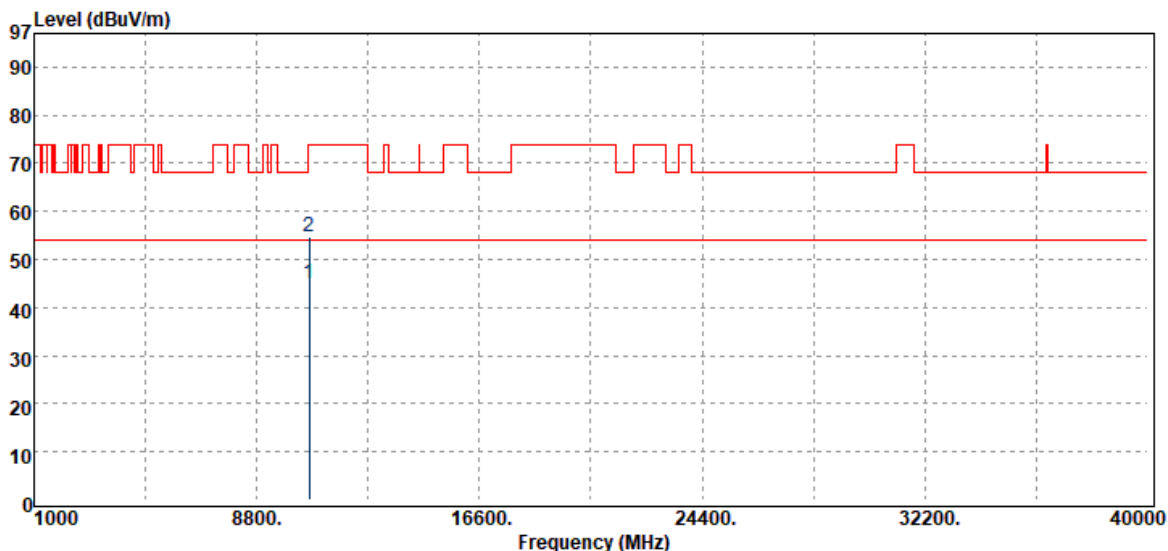
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10640.00	Average	24.69	20.37	45.06	54.00	-8.94
10640.00	Peak	34.31	20.37	54.68	74.00	-19.32

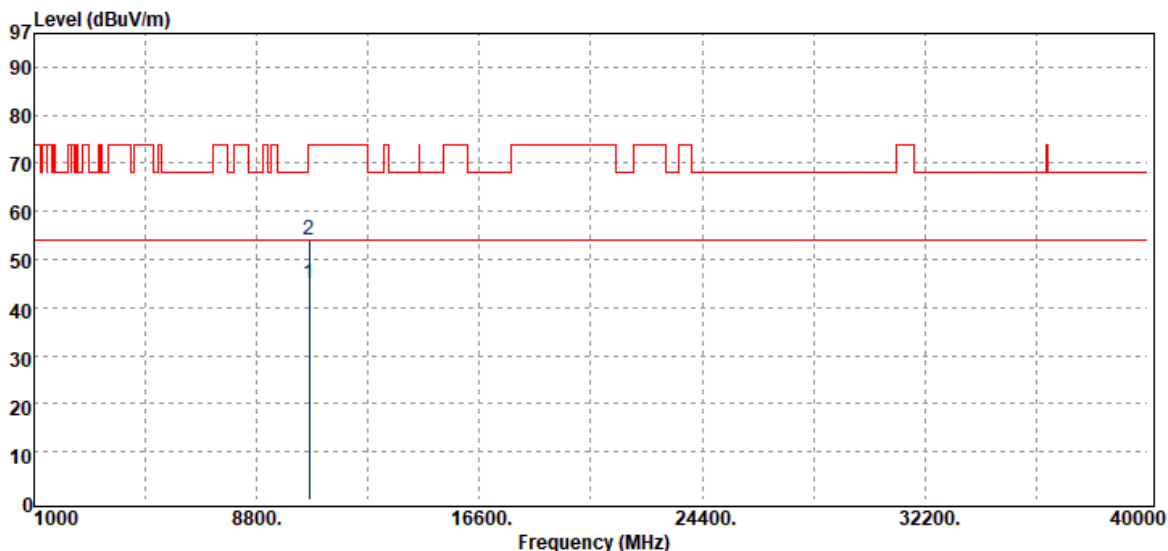
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10640.00	Average	24.66	20.37	45.03	54.00	-8.97
10640.00	Peak	33.76	20.37	54.13	74.00	-19.87

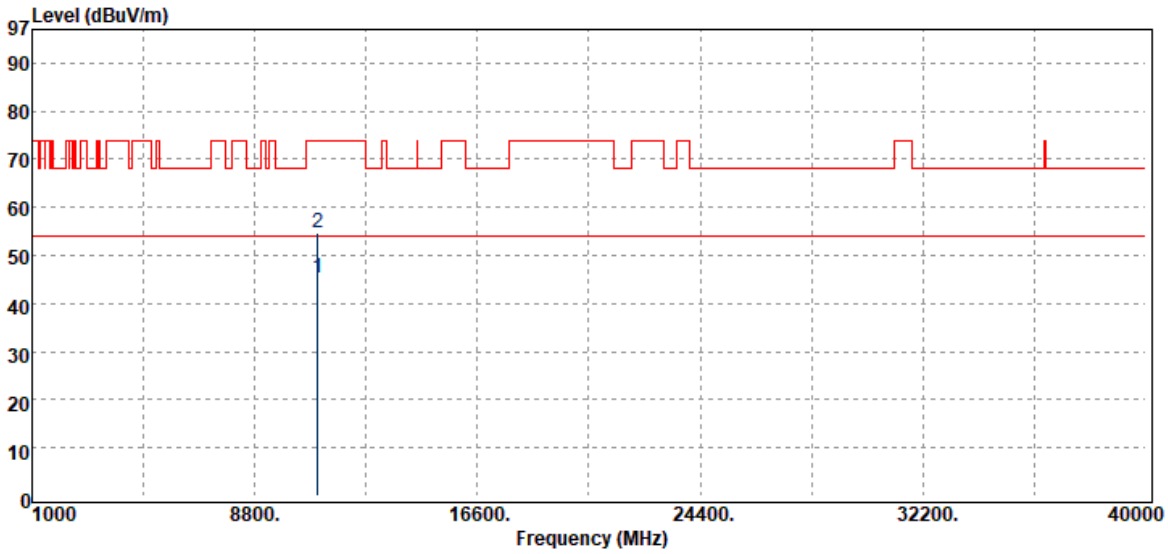
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11000.00	Average	24.53	20.90	45.43	54.00	-8.57
11000.00	Peak	33.69	20.90	54.59	74.00	-19.41

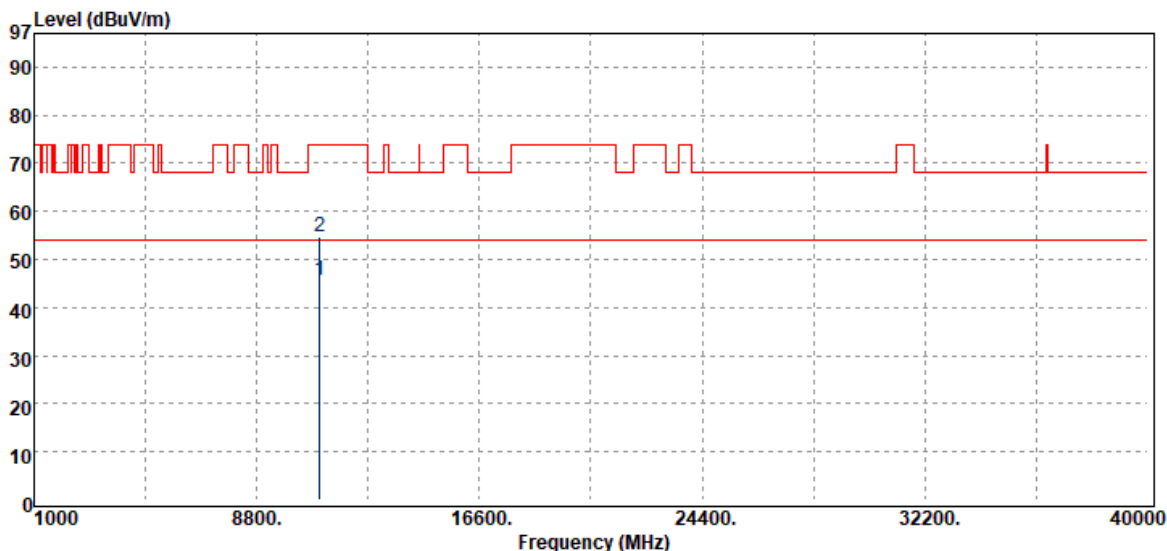
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11000.00	Average	24.59	20.90	45.49	54.00	-8.51
11000.00	Peak	33.97	20.90	54.87	74.00	-19.13

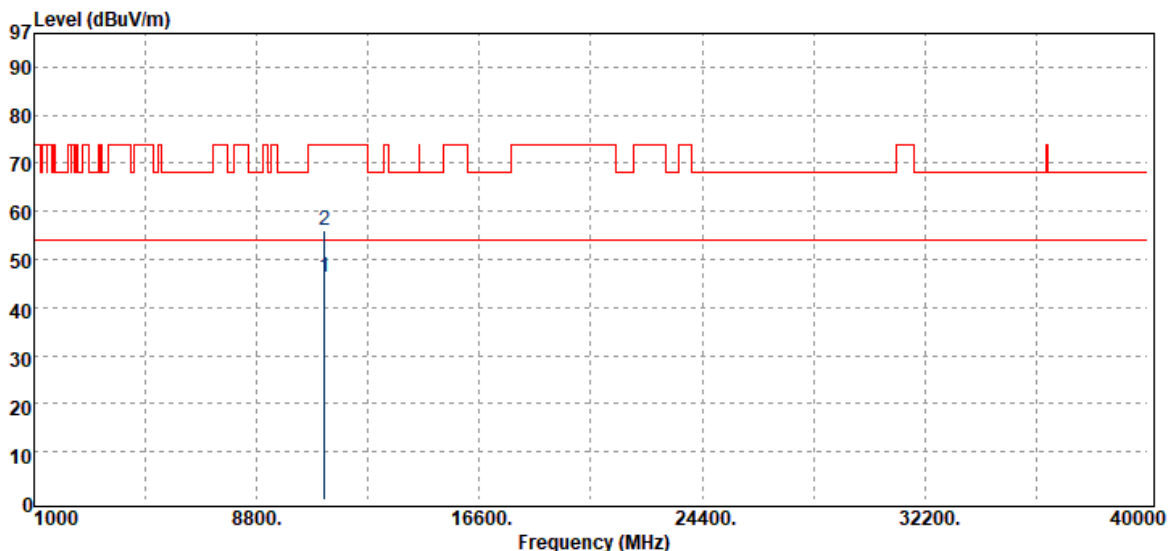
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



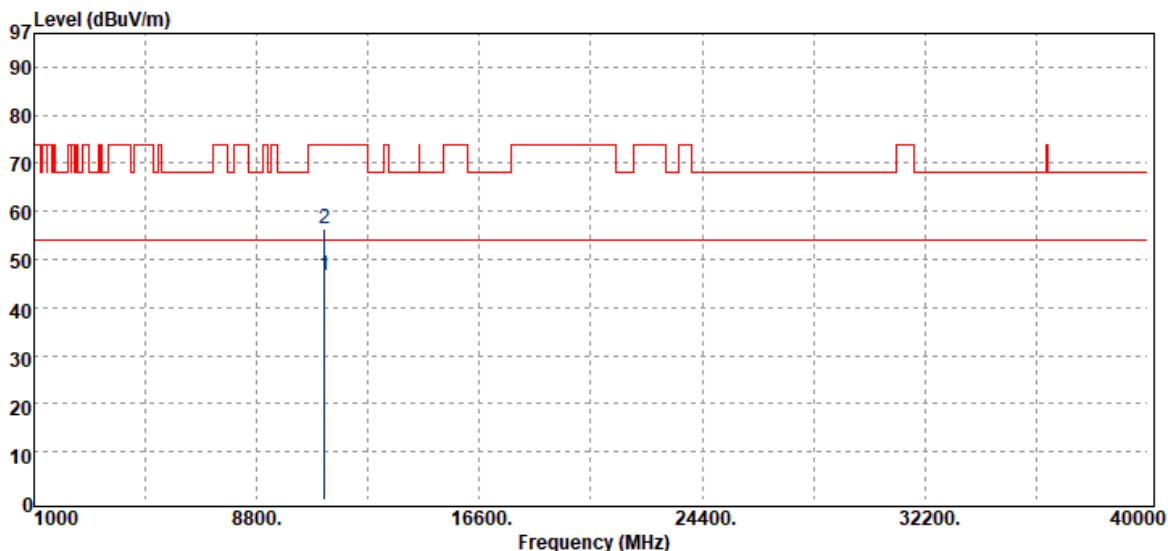
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	24.76	21.60	46.36	54.00	-7.64
11160.00	Peak	34.33	21.60	55.93	74.00	-18.07

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Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5580 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



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
11160.00	Average	24.89	21.60	46.49	54.00	-7.51
11160.00	Peak	34.67	21.60	56.27	74.00	-17.73

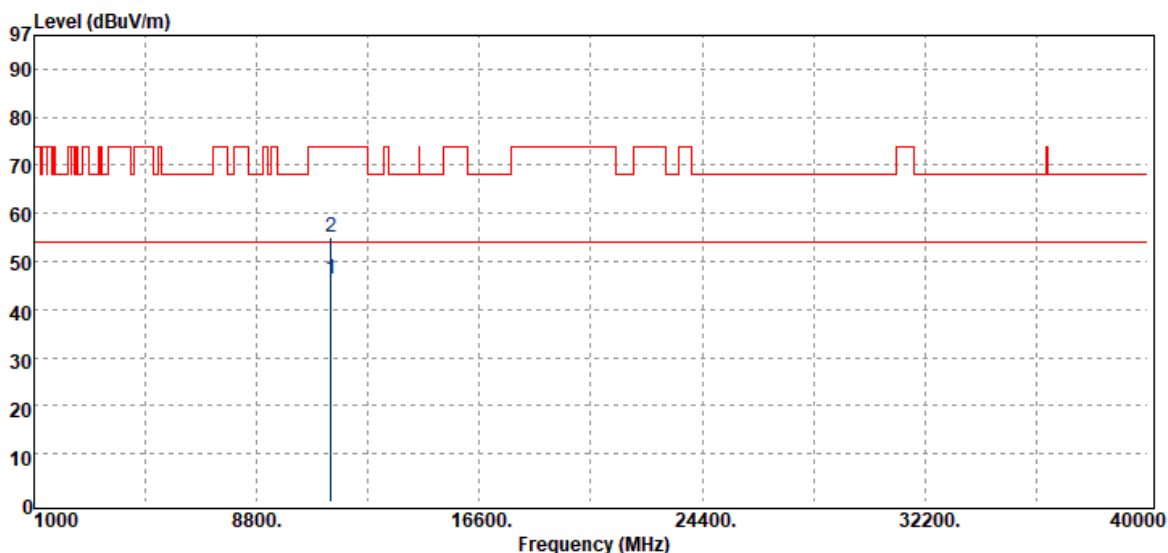
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11400.00	Average	24.78	21.51	46.29	54.00	-7.71
11400.00	Peak	33.38	21.51	54.89	74.00	-19.11

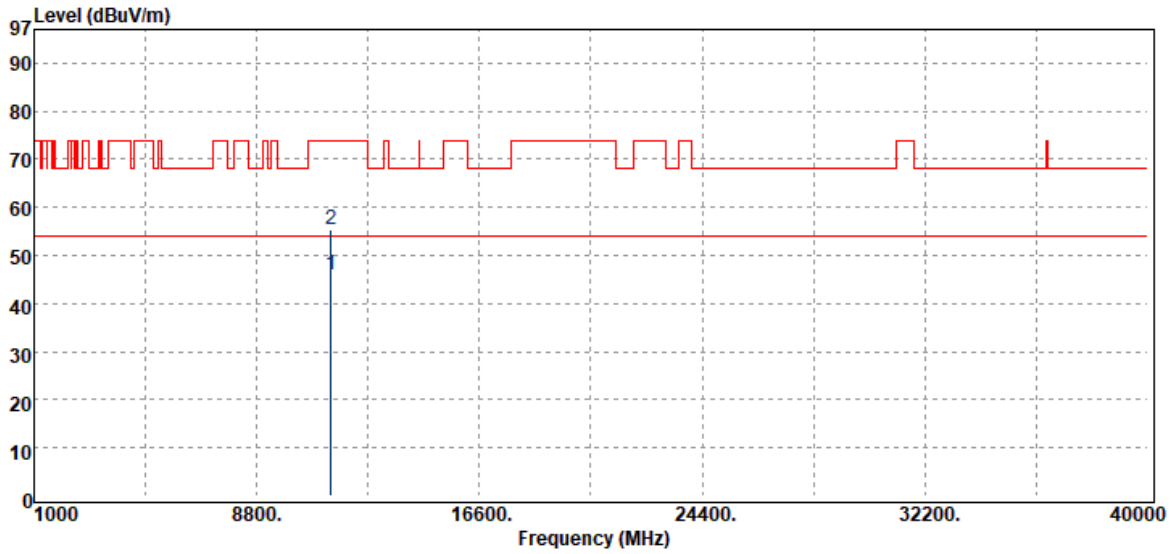
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11400.00	Average	24.43	21.51	45.94	54.00	-8.06
11400.00	Peak	33.74	21.51	55.25	74.00	-18.75

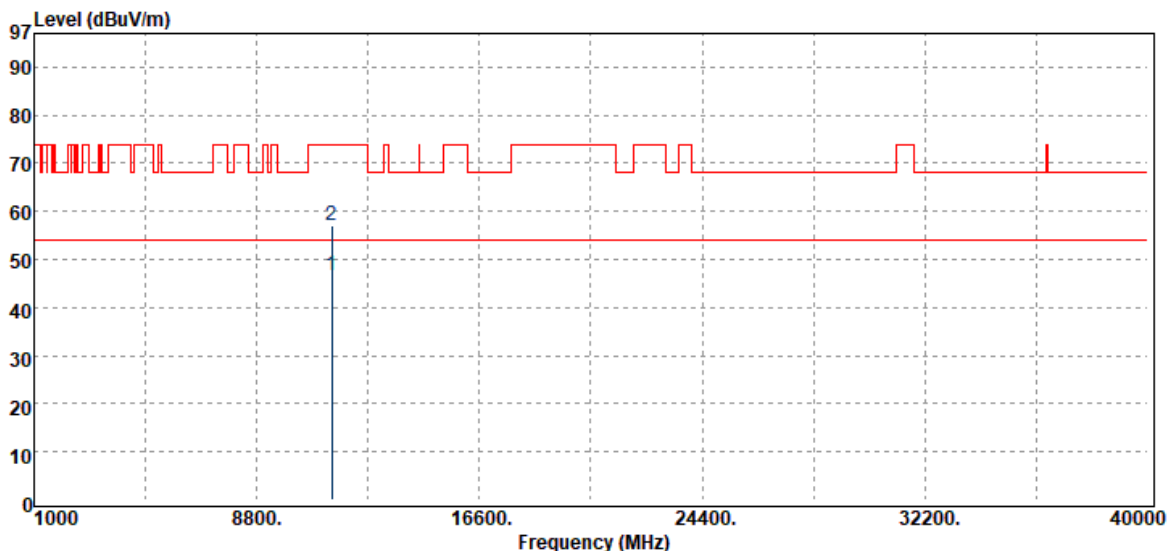
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11440.00	Average	23.97	22.75	46.72	54.00	-7.28
11440.00	Peak	34.16	22.75	56.91	74.00	-17.09

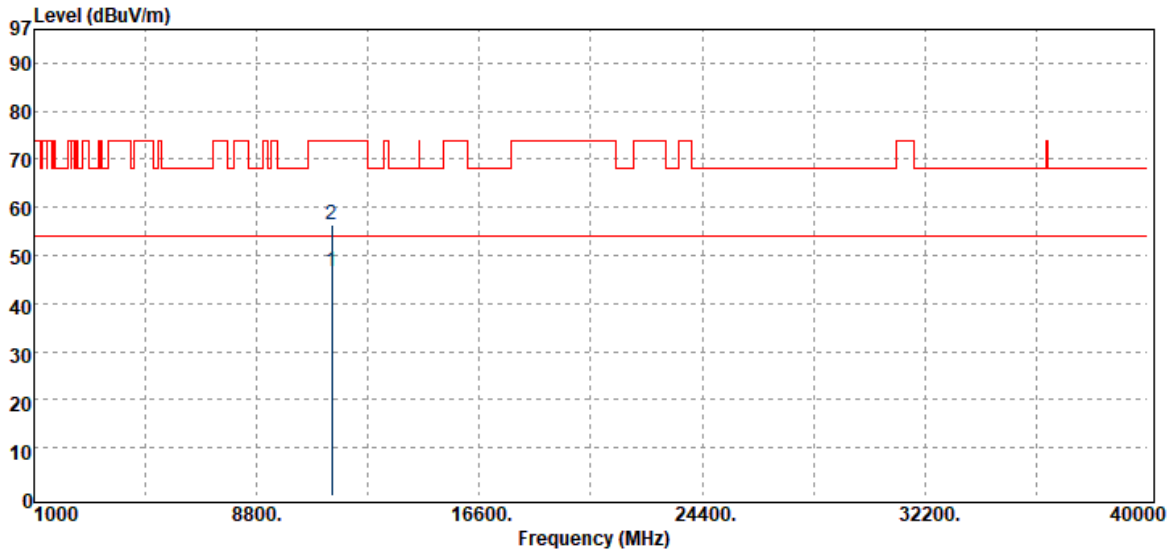
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



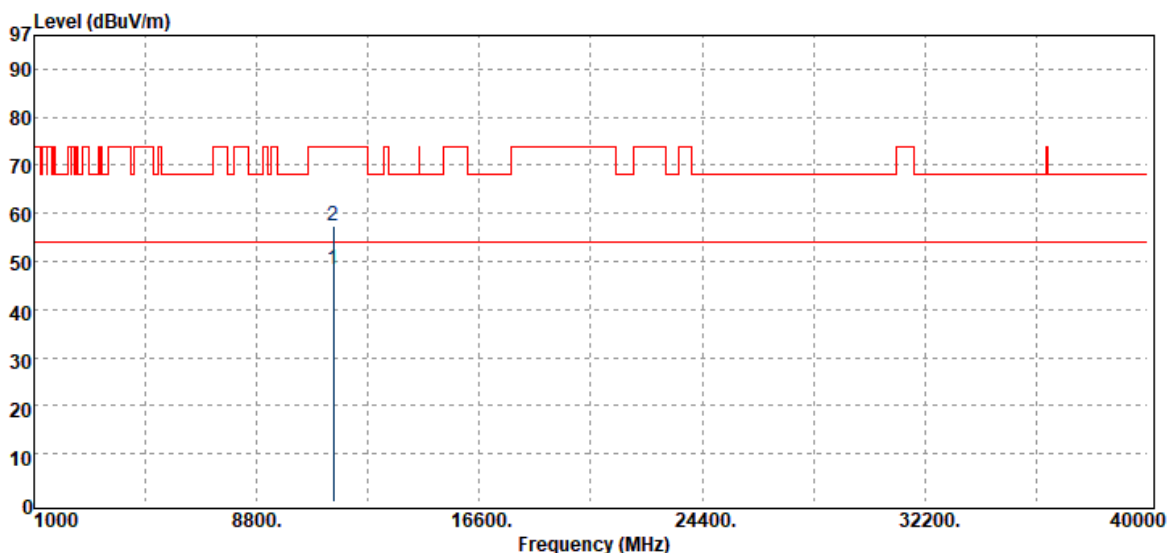
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	23.97	22.75	46.72	54.00	-7.28
11440.00	Peak	33.48	22.75	56.23	74.00	-17.77

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Report Number	:ER-2021-40063	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2021-04-23
Test Frequency	:5745 MHz	Temp./Humi.	:24.5/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Ricky Chen



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
11490.00	Average	23.89	24.41	48.30	54.00	-5.70
11490.00	Peak	33.11	24.41	57.52	74.00	-16.48

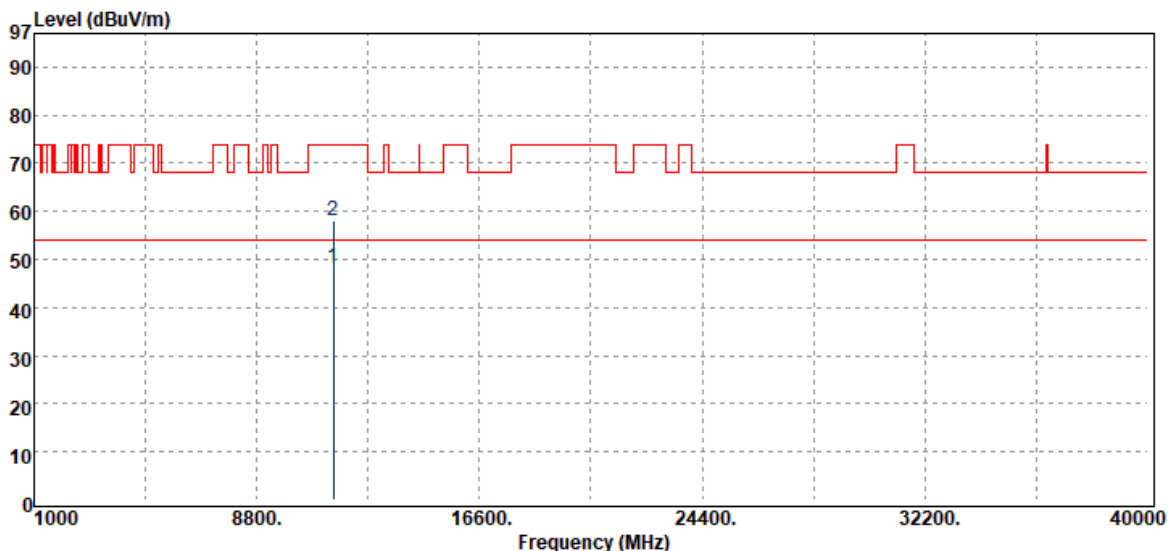
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11490.00	Average	23.93	24.41	48.34	54.00	-5.66
11490.00	Peak	33.71	24.41	58.12	74.00	-15.88

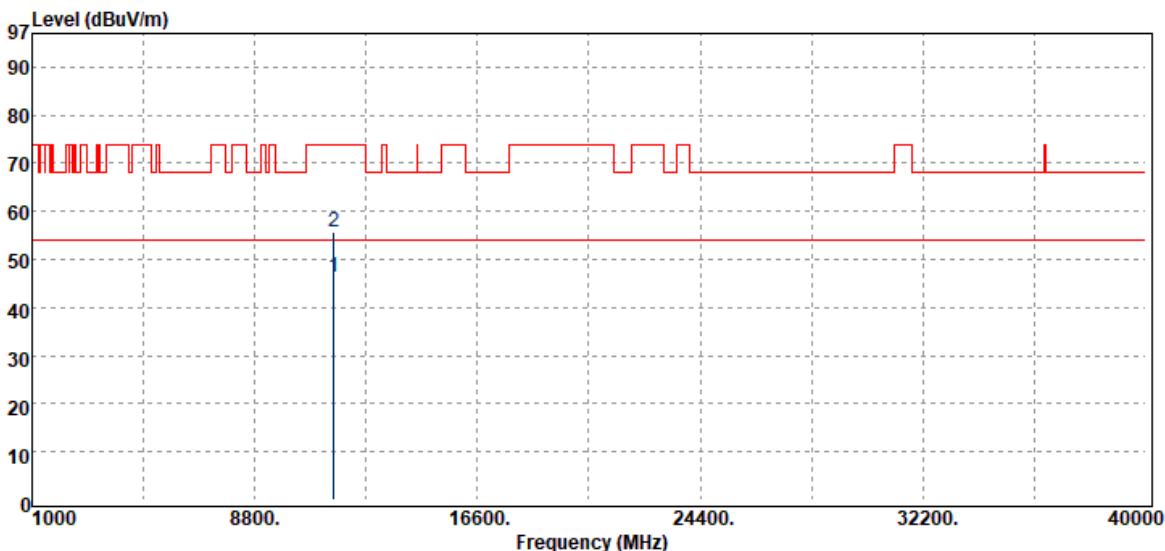
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11570.00	Average	24.47	21.84	46.31	54.00	-7.69
11570.00	Peak	33.80	21.84	55.64	74.00	-18.36

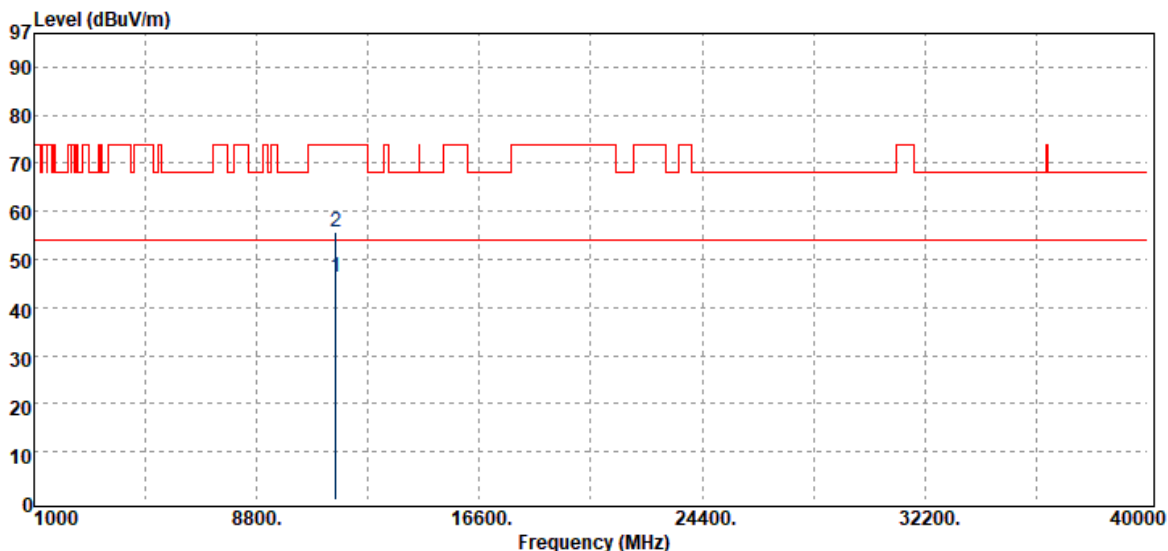
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11570.00	Average	24.50	21.84	46.34	54.00	-7.66
11570.00	Peak	33.82	21.84	55.66	74.00	-18.34

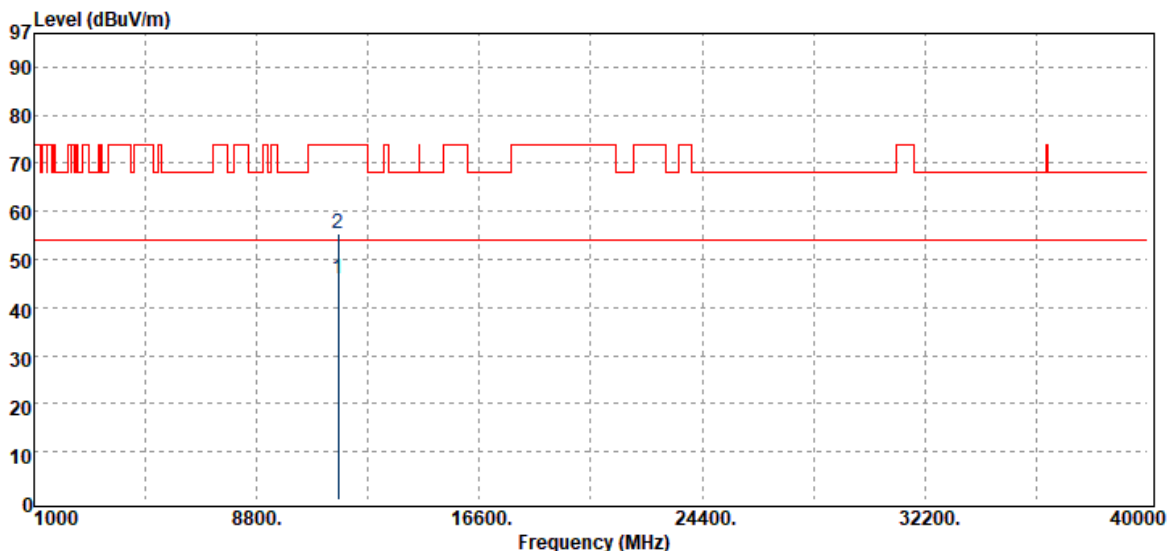
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11650.00	Average	23.92	22.13	46.05	54.00	-7.95
11650.00	Peak	33.13	22.13	55.26	74.00	-18.74

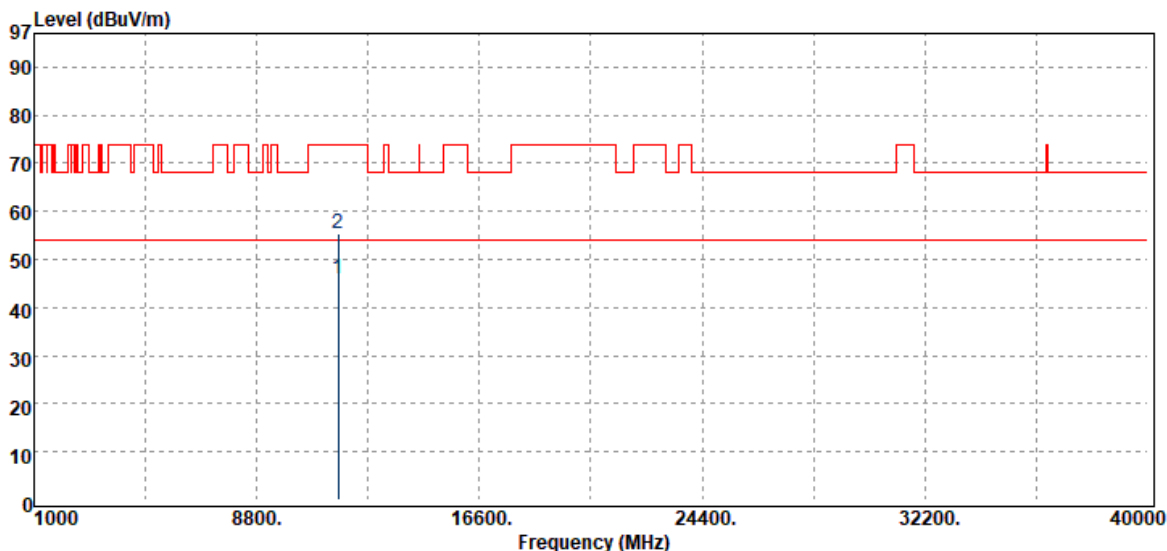
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Report Number :ER-2021-40063
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11650.00	Average	23.96	22.13	46.09	54.00	-7.91
11650.00	Peak	33.16	22.13	55.29	74.00	-18.71

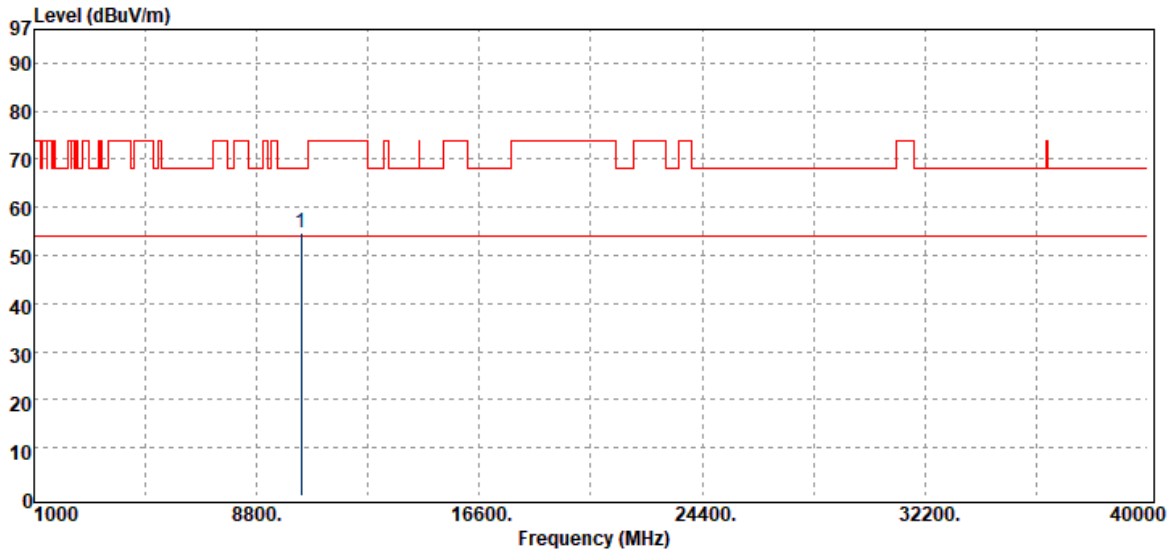
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10360.00	Peak	34.95	19.87	54.82	68.20	-13.38

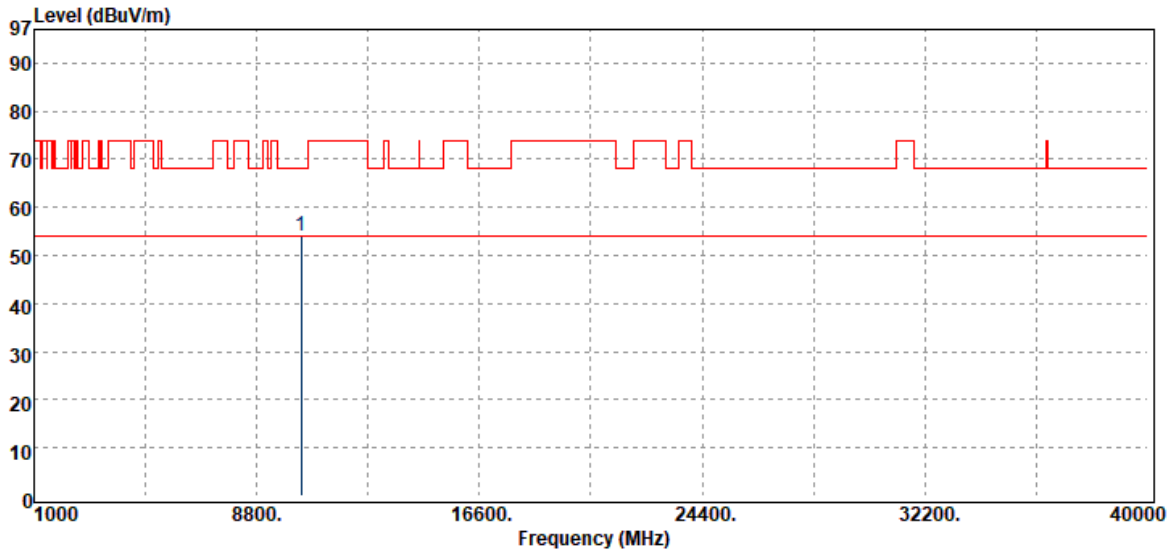
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10360.00	Peak	34.33	19.87	54.20	68.20	-14.00

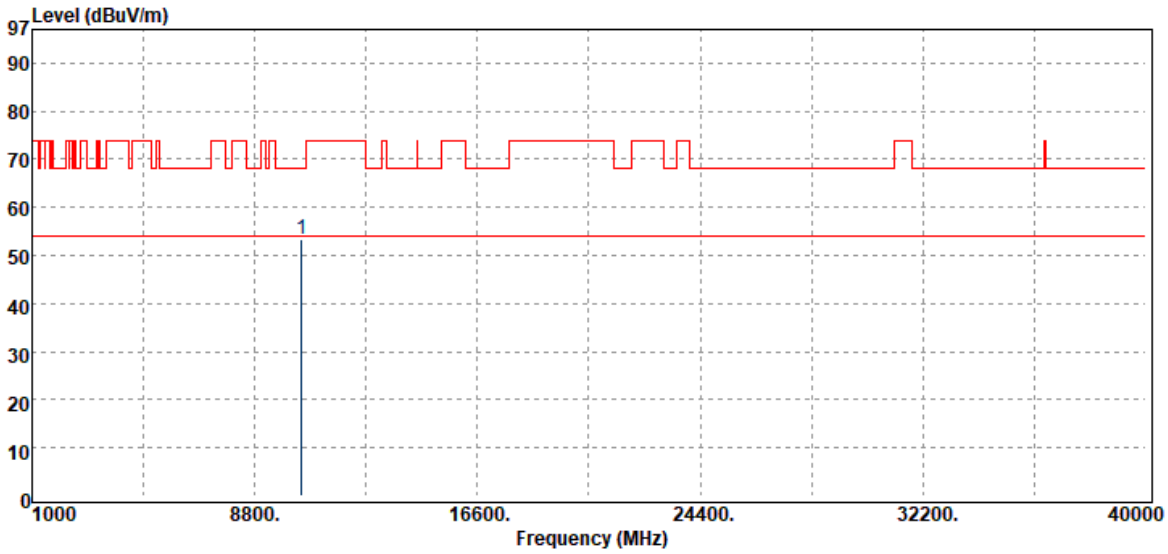
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10440.00	Peak	34.34	19.15	53.49	68.20	-14.71

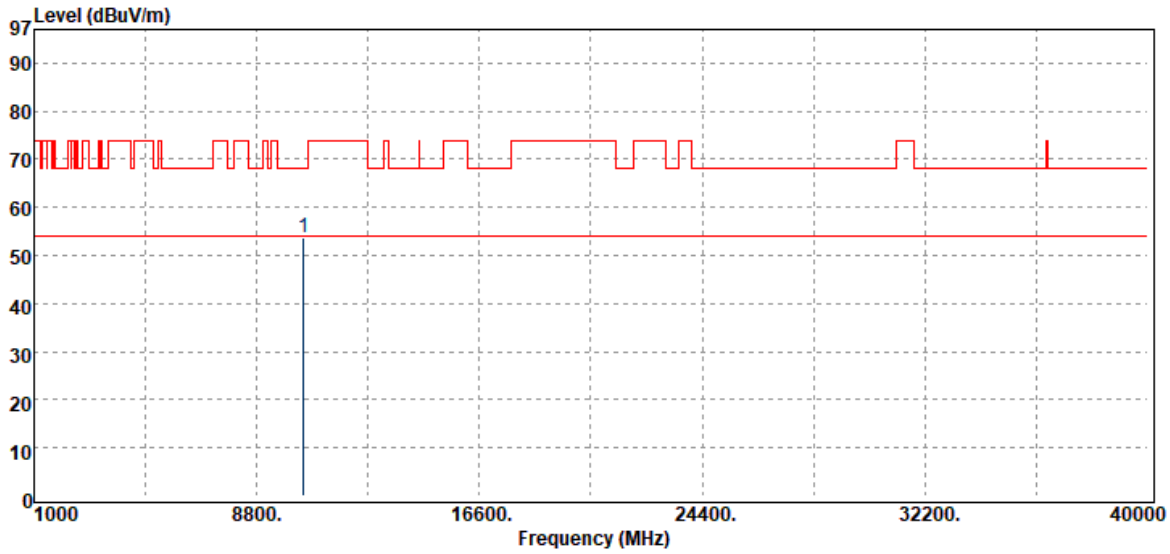
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10440.00	Peak	34.42	19.15	53.57	68.20	-14.63

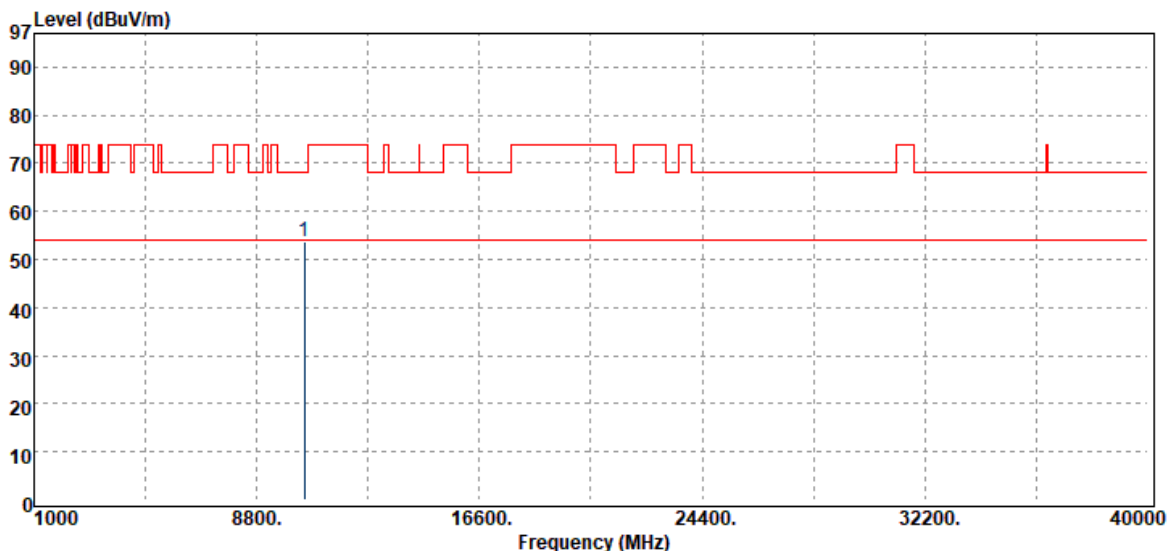
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10480.00	Peak	33.98	19.56	53.54	68.20	-14.66

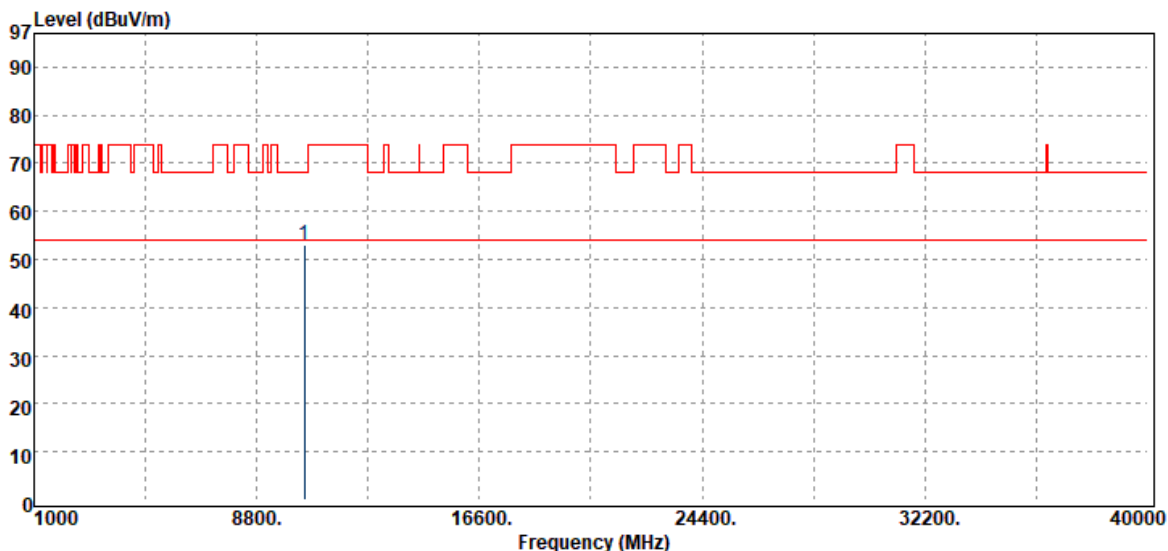
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10480.00	Peak	33.47	19.56	53.03	68.20	-15.17

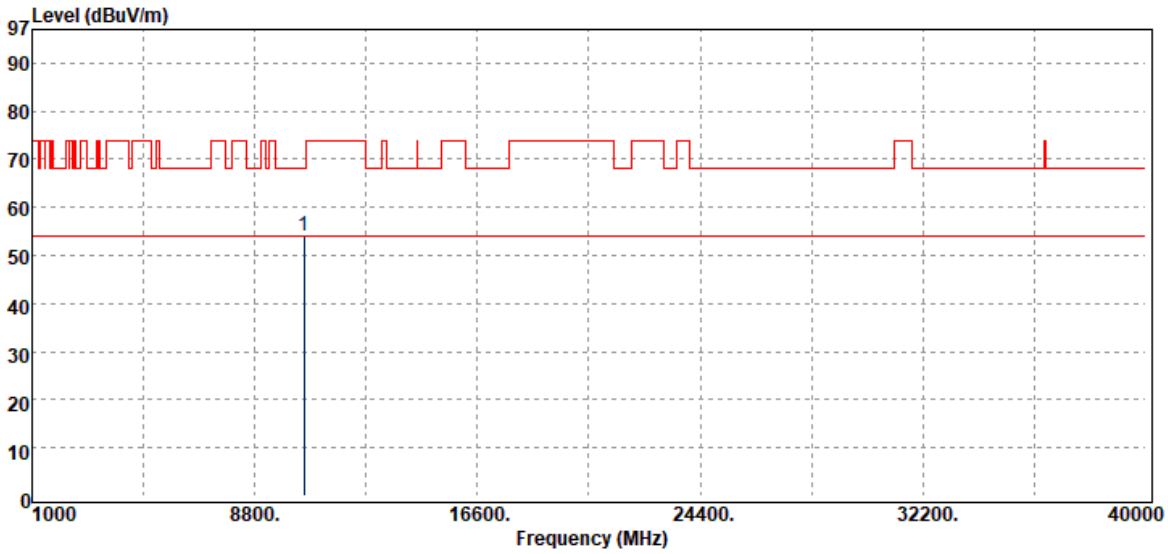
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10520.00	Peak	34.24	19.84	54.08	68.20	-14.12

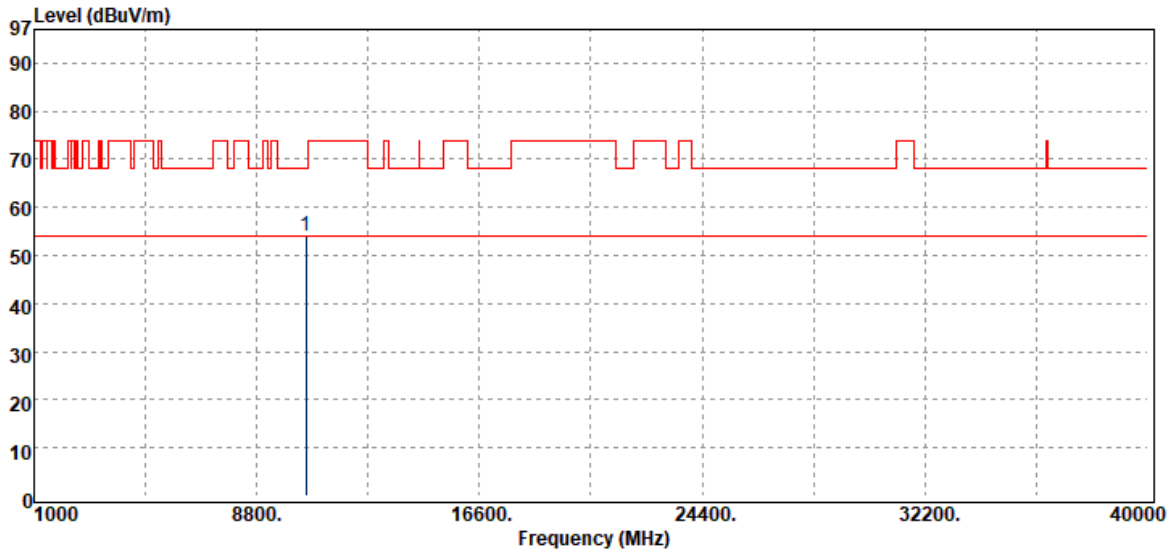
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10520.00	Peak	34.14	19.84	53.98	68.20	-14.22

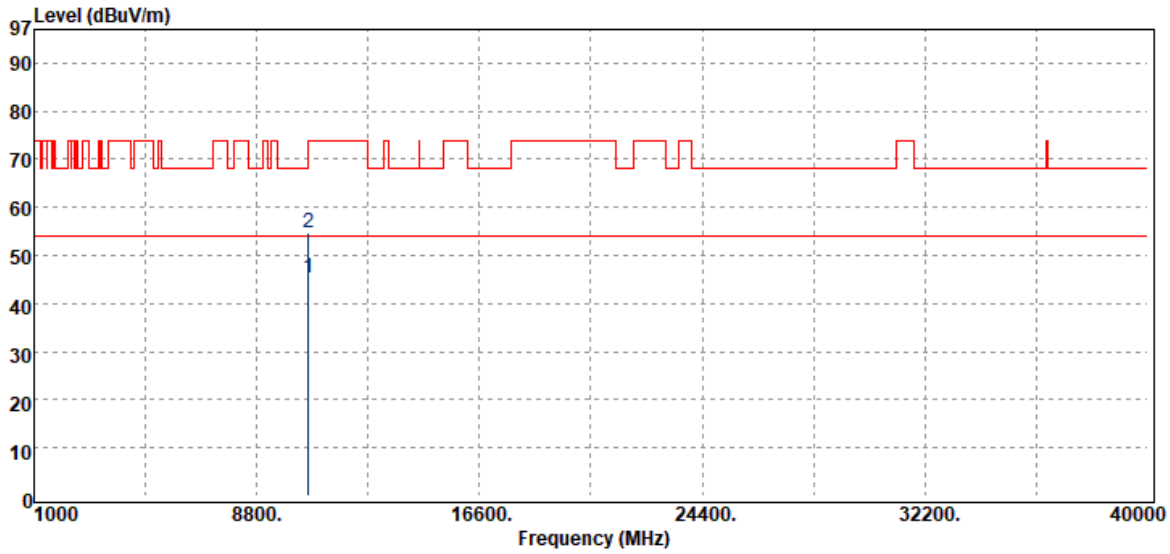
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10600.00	Average	25.36	19.86	45.22	54.00	-8.78
10600.00	Peak	34.94	19.86	54.80	74.00	-19.20

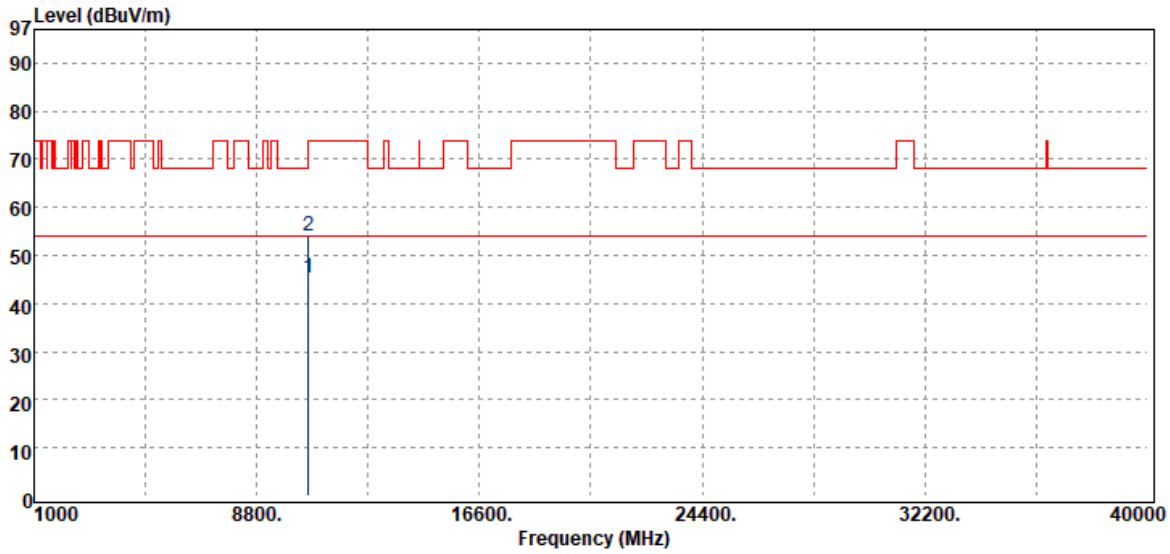
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10600.00	Average	25.49	19.86	45.35	54.00	-8.65
10600.00	Peak	34.19	19.86	54.05	74.00	-19.95

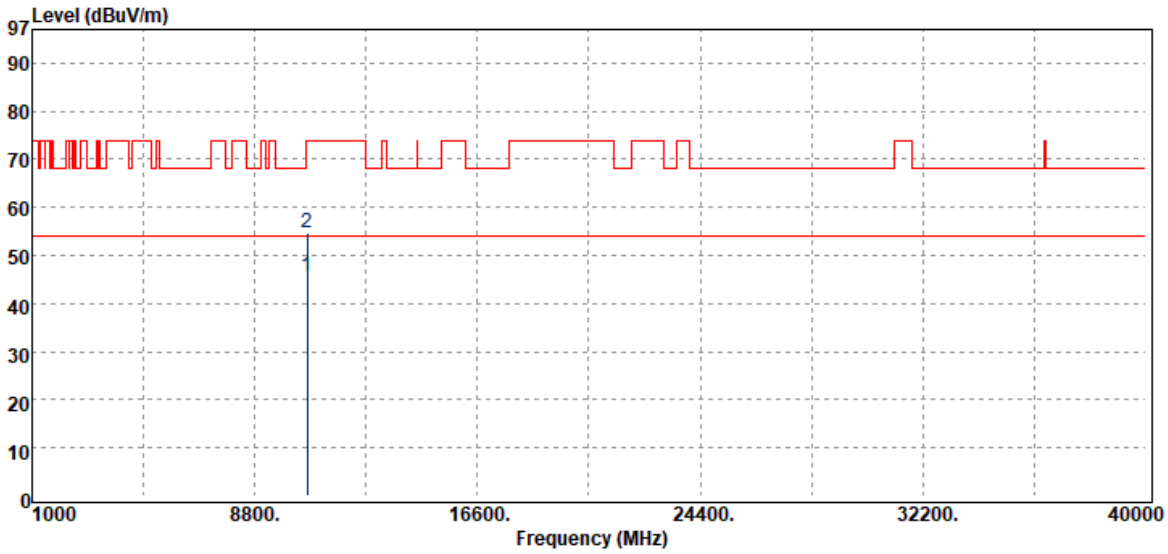
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10640.00	Average	25.26	20.37	45.63	54.00	-8.37
10640.00	Peak	34.41	20.37	54.78	74.00	-19.22

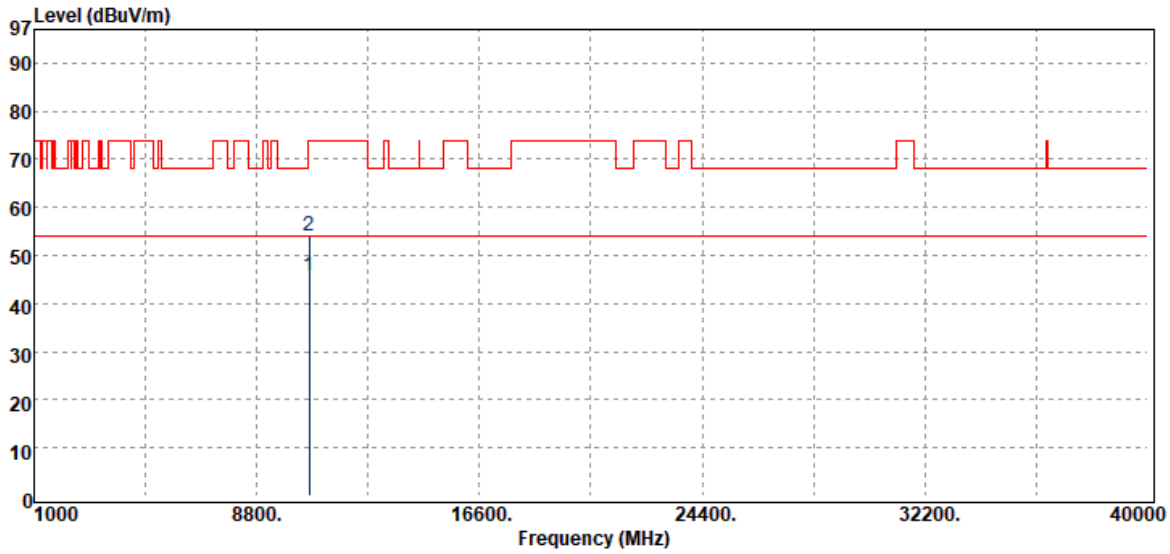
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10640.00	Average	25.21	20.37	45.58	54.00	-8.42
10640.00	Peak	33.73	20.37	54.10	74.00	-19.90

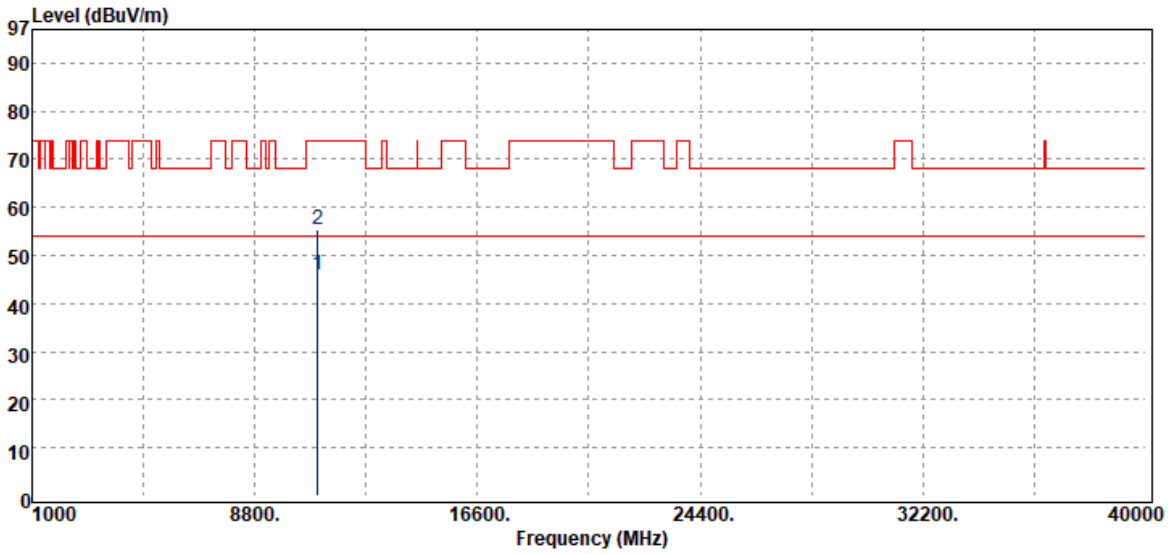
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11000.00	Average	25.19	20.90	46.09	54.00	-7.91
11000.00	Peak	34.31	20.90	55.21	74.00	-18.79

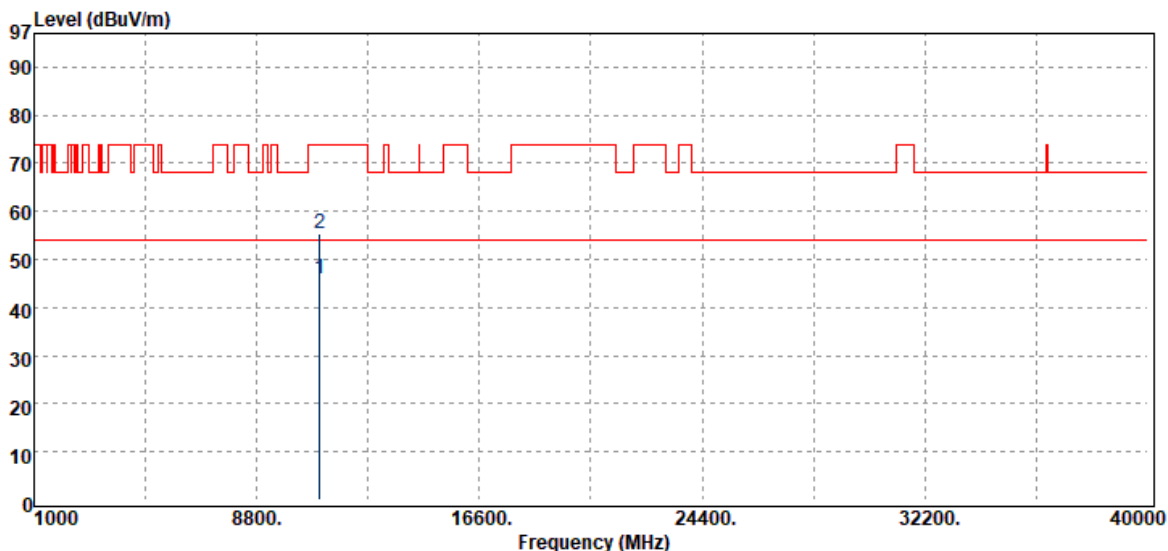
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11000.00	Average	25.17	20.90	46.07	54.00	-7.93
11000.00	Peak	34.44	20.90	55.34	74.00	-18.66

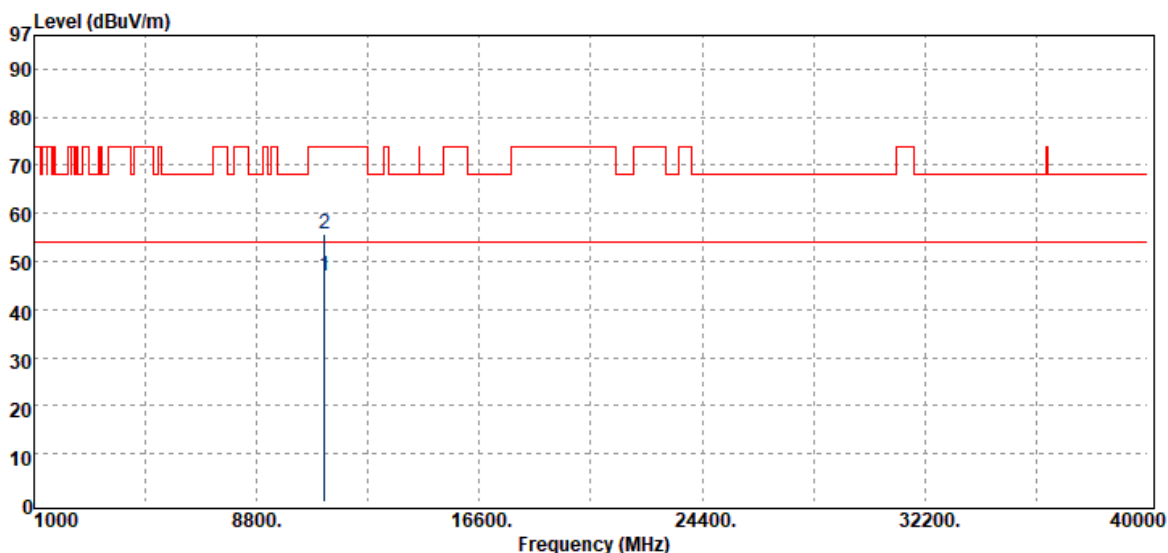
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11160.00	Average	25.48	21.60	47.08	54.00	-6.92
11160.00	Peak	34.09	21.60	55.69	74.00	-18.31

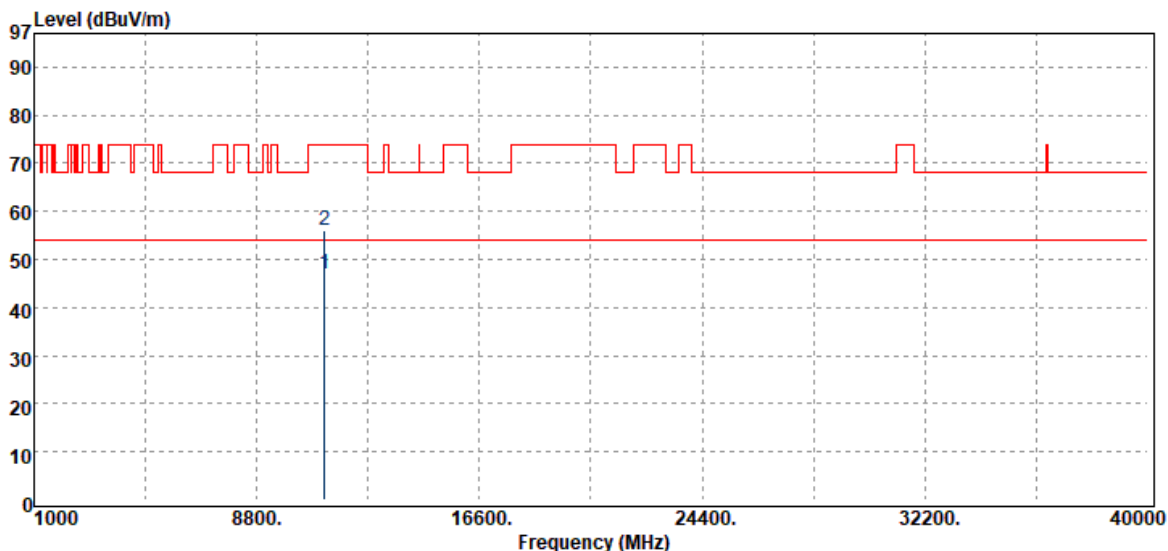
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11160.00	Average	25.32	21.60	46.92	54.00	-7.08
11160.00	Peak	34.54	21.60	56.14	74.00	-17.86

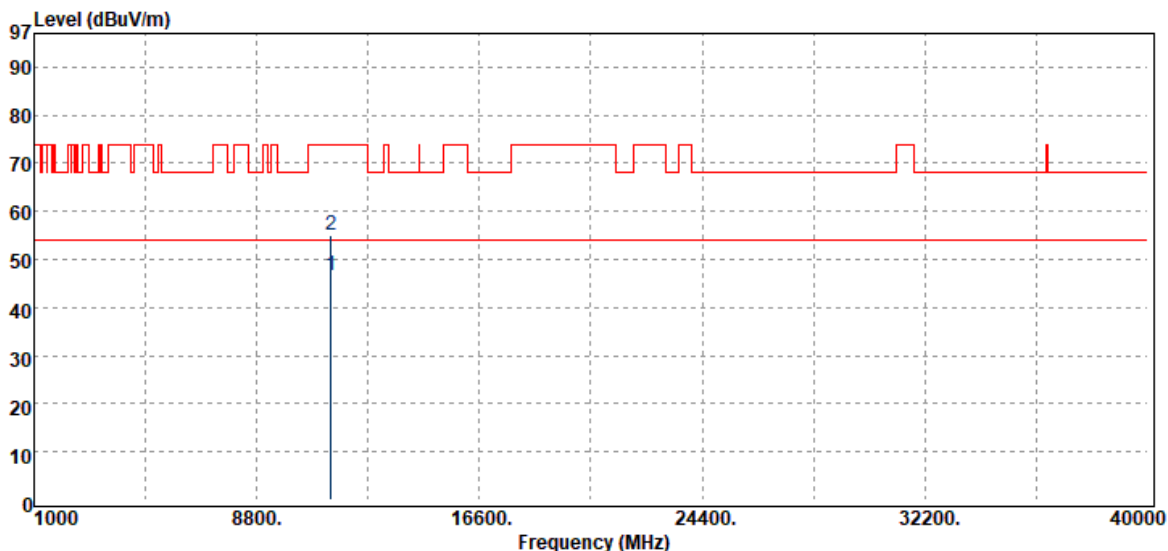
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11400.00	Average	25.16	21.51	46.67	54.00	-7.33
11400.00	Peak	33.52	21.51	55.03	74.00	-18.97

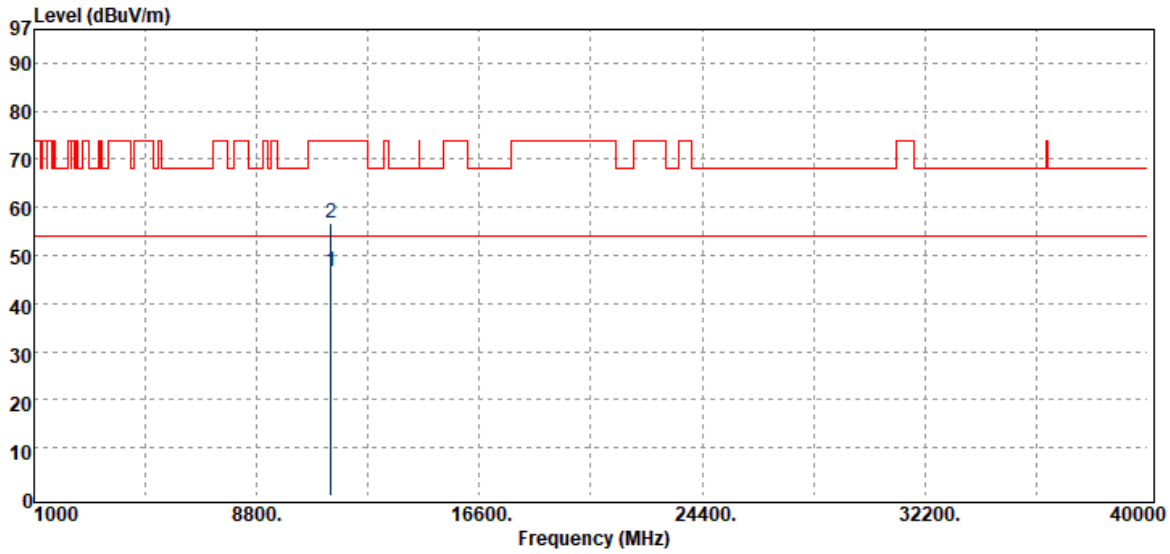
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11400.00	Average	25.06	21.51	46.57	54.00	-7.43
11400.00	Peak	35.17	21.51	56.68	74.00	-17.32

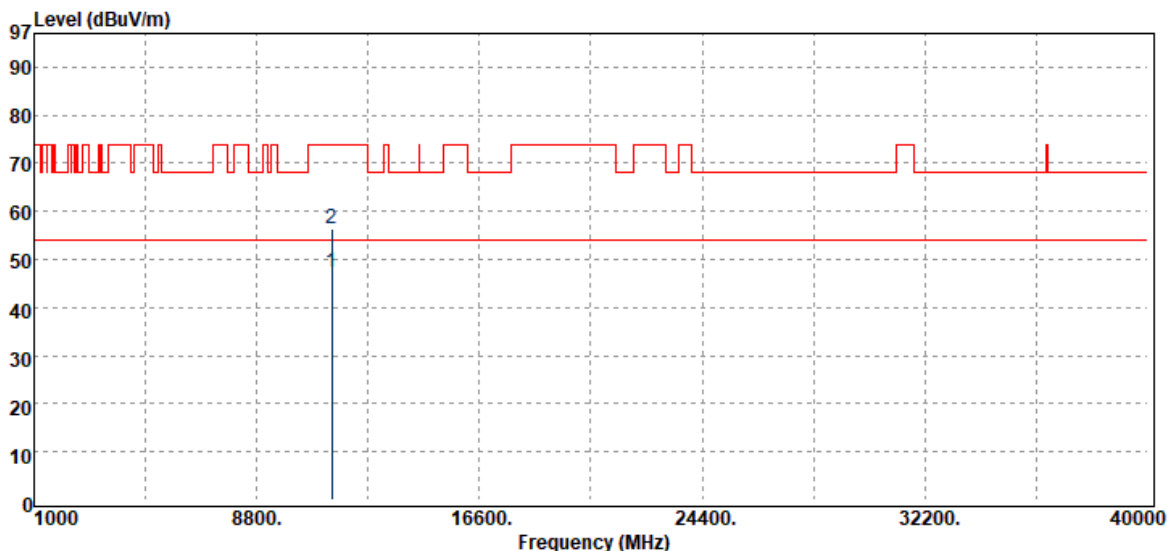
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5720 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11440.00	Average	24.74	22.75	47.49	54.00	-6.51
11440.00	Peak	33.77	22.75	56.52	74.00	-17.48

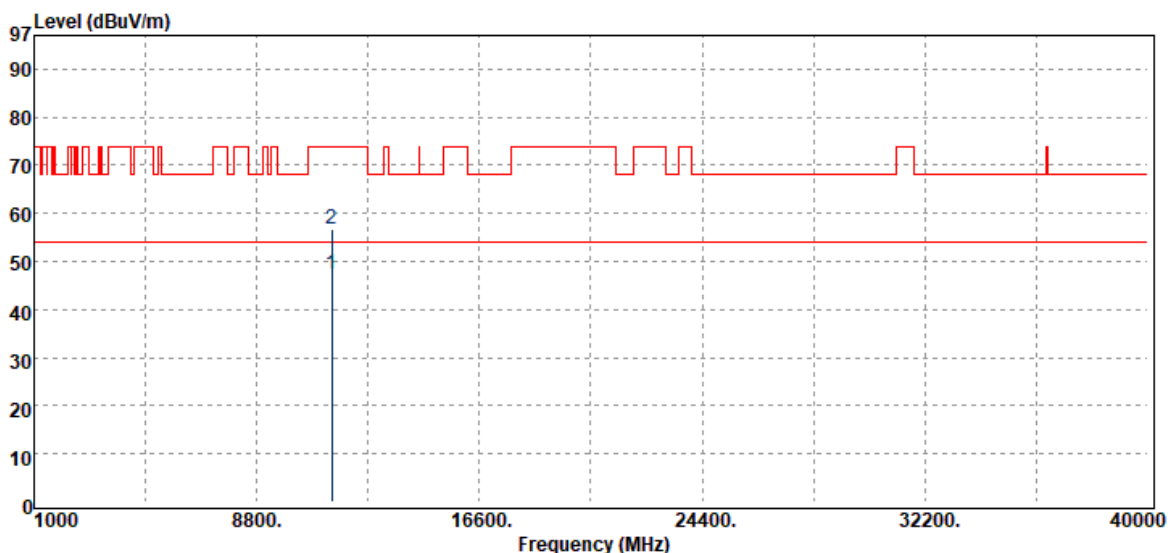
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5720 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11440.00	Average	24.70	22.75	47.45	54.00	-6.55
11440.00	Peak	33.85	22.75	56.60	74.00	-17.40

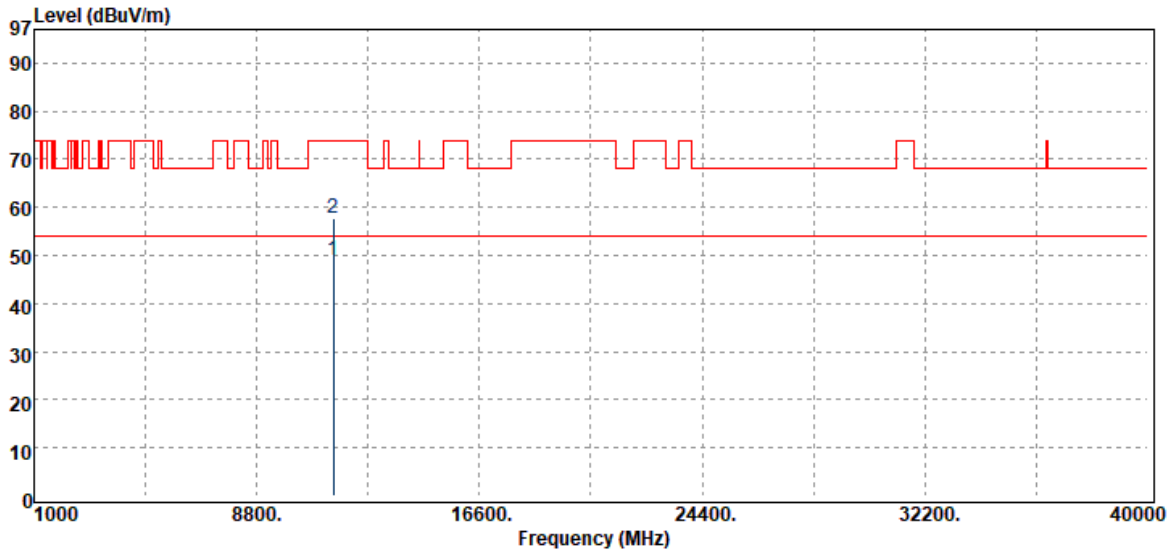
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11490.00	Average	24.69	24.41	49.10	54.00	-4.90
11490.00	Peak	33.17	24.41	57.58	74.00	-16.42

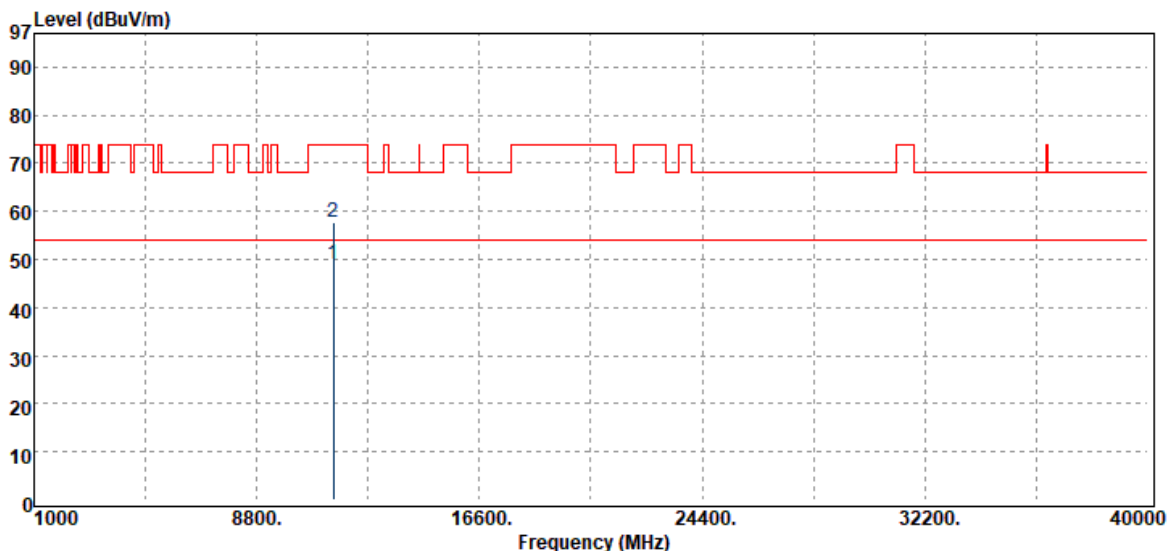
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11490.00	Average	24.53	24.41	48.94	54.00	-5.06
11490.00	Peak	33.46	24.41	57.87	74.00	-16.13

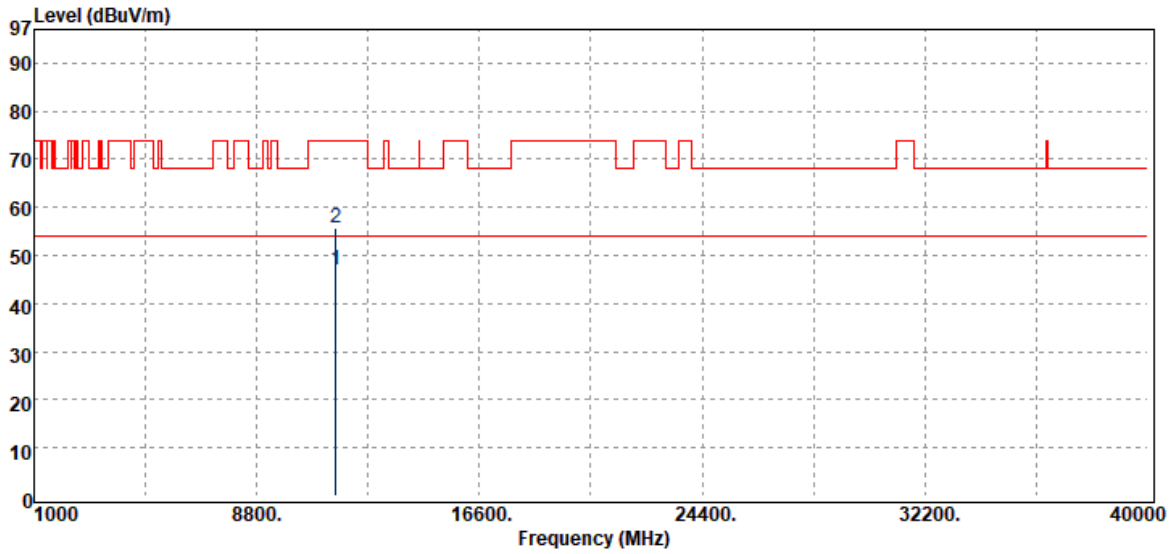
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11570.00	Average	25.18	21.84	47.02	54.00	-6.98
11570.00	Peak	34.03	21.84	55.87	74.00	-18.13

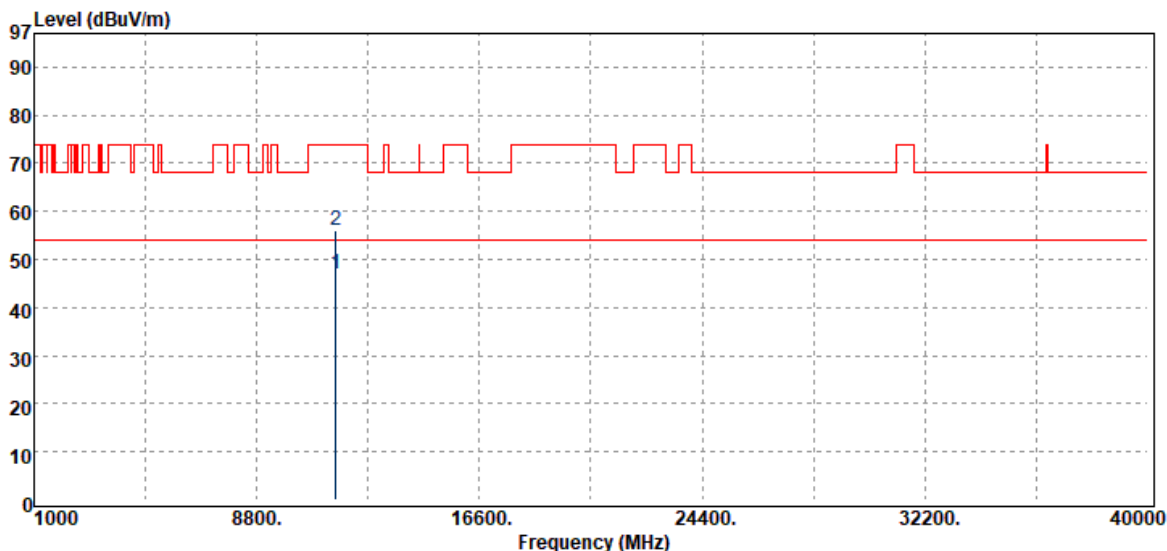
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11570.00	Average	25.27	21.84	47.11	54.00	-6.89
11570.00	Peak	34.28	21.84	56.12	74.00	-17.88

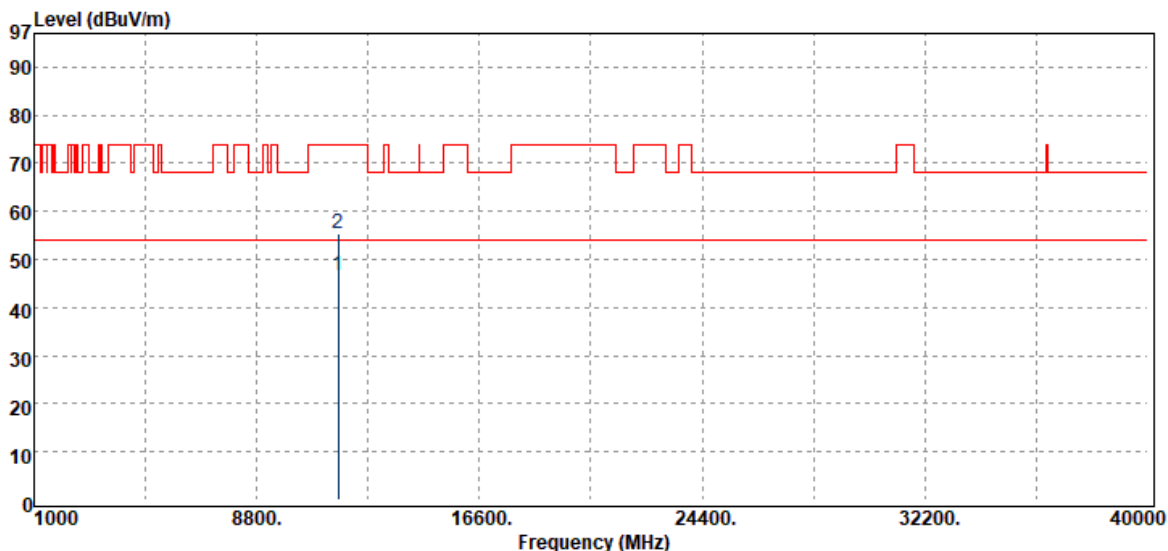
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11650.00	Average	24.57	22.13	46.70	54.00	-7.30
11650.00	Peak	33.21	22.13	55.34	74.00	-18.66

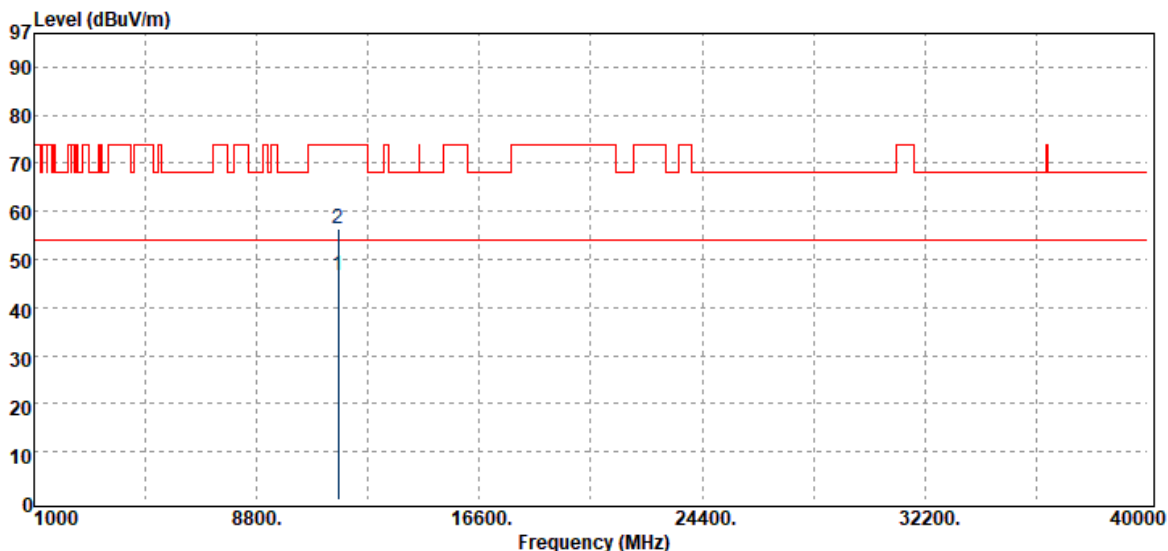
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Report Number :ER-2021-40063
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11650.00	Average	24.49	22.13	46.62	54.00	-7.38
11650.00	Peak	34.21	22.13	56.34	74.00	-17.66

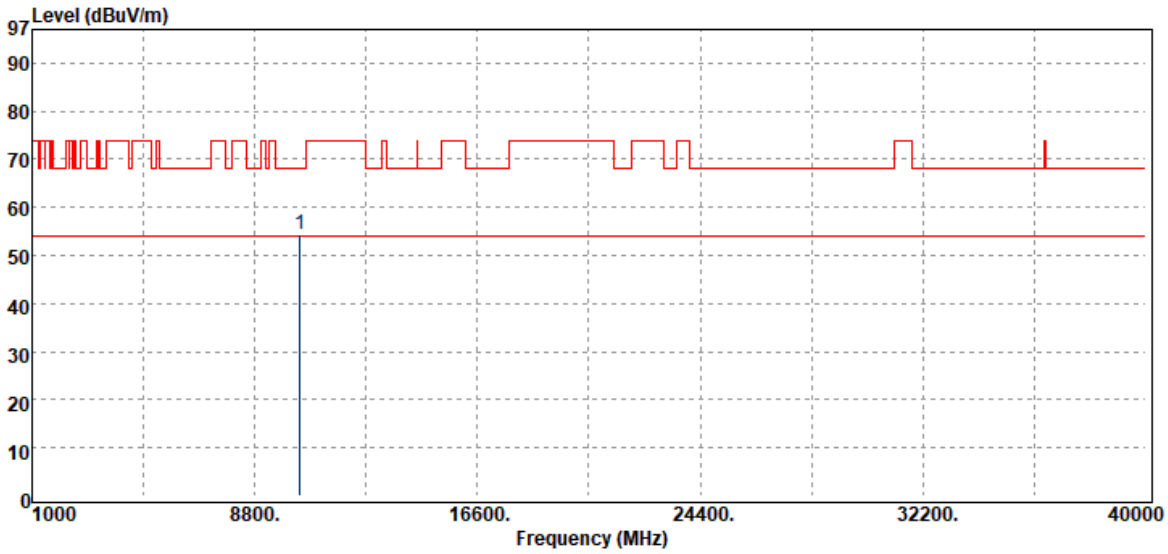
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10380.00	Peak	34.75	19.70	54.45	68.20	-13.75

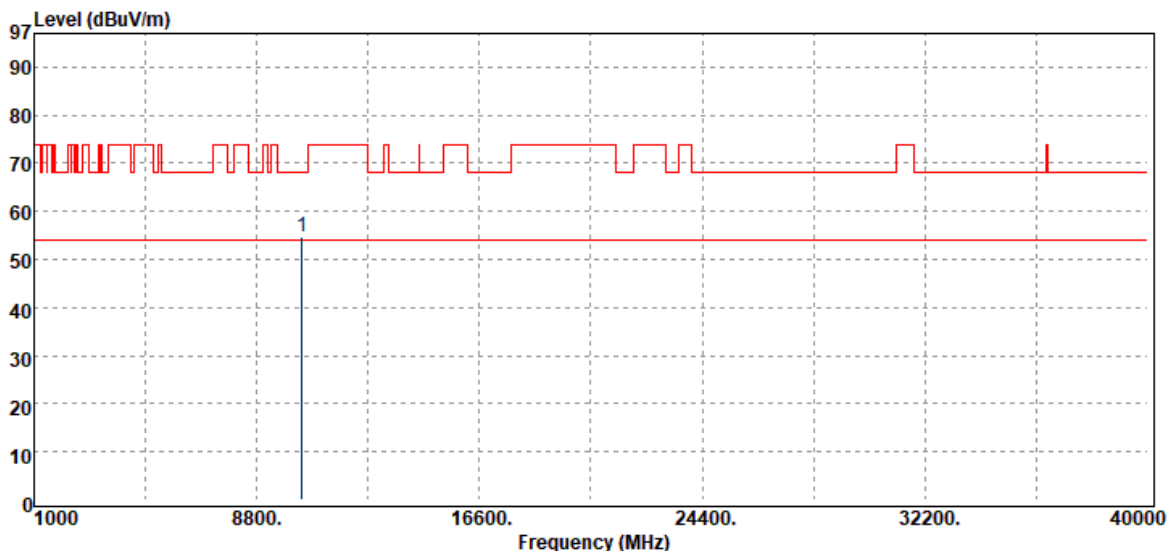
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10380.00	Peak	34.93	19.70	54.63	68.20	-13.57

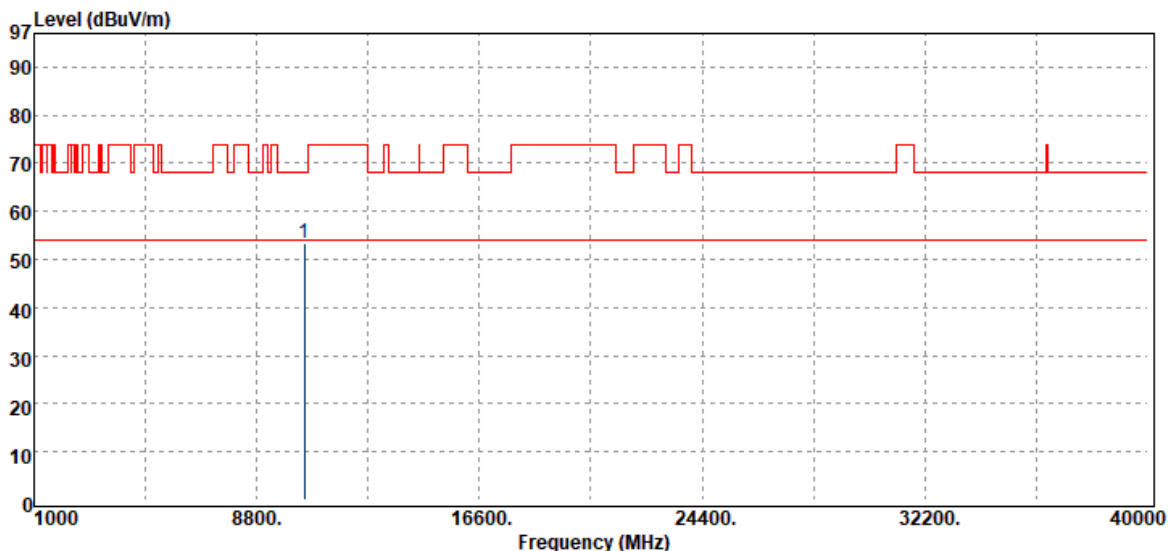
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	34.09	19.22	53.31	68.20	-14.89

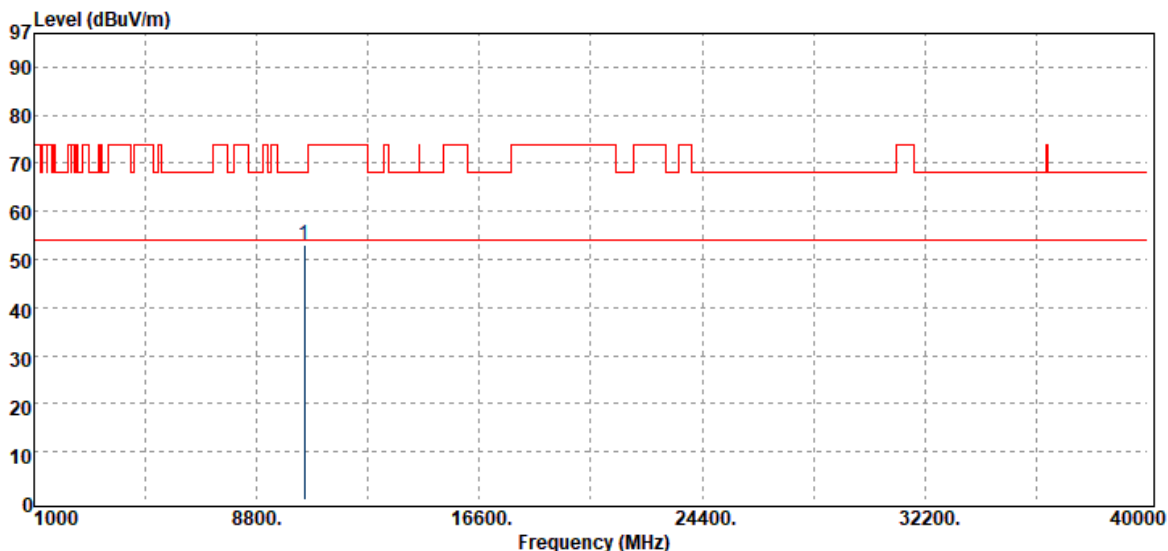
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10460.00	Peak	33.91	19.22	53.13	68.20	-15.07

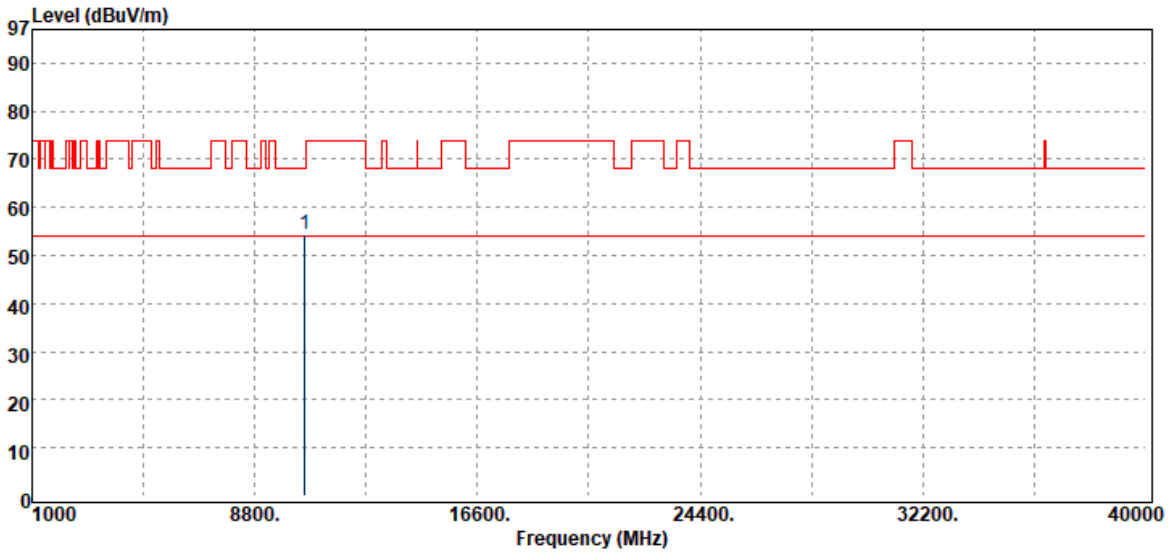
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10540.00	Peak	34.74	19.78	54.52	68.20	-13.68

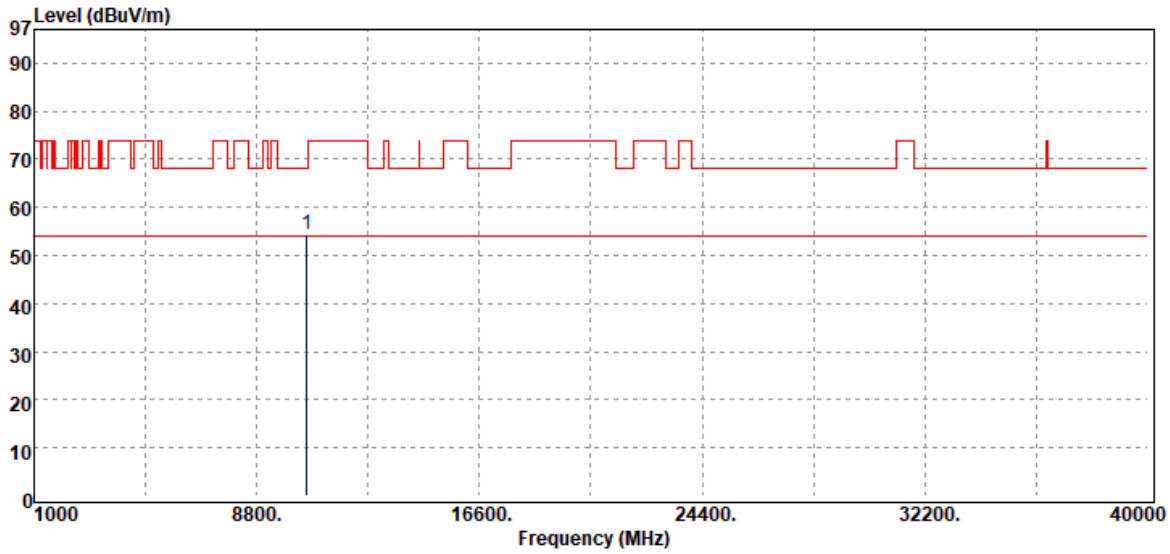
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10540.00	Peak	34.58	19.78	54.36	68.20	-13.84

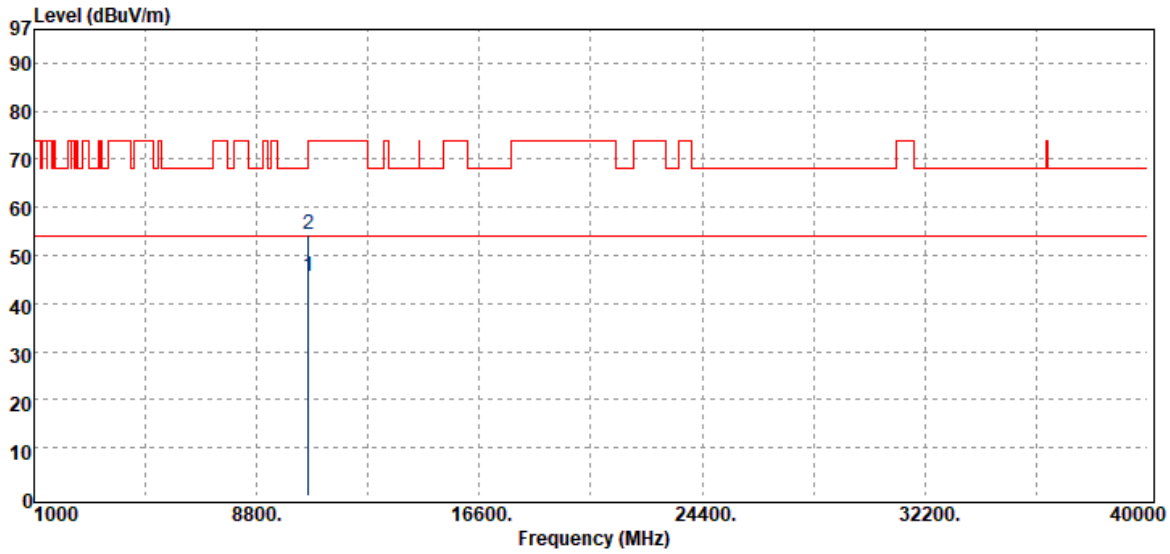
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
10620.00	Average	25.69	20.12	45.81	54.00	-8.19
10620.00	Peak	34.10	20.12	54.22	74.00	-19.78

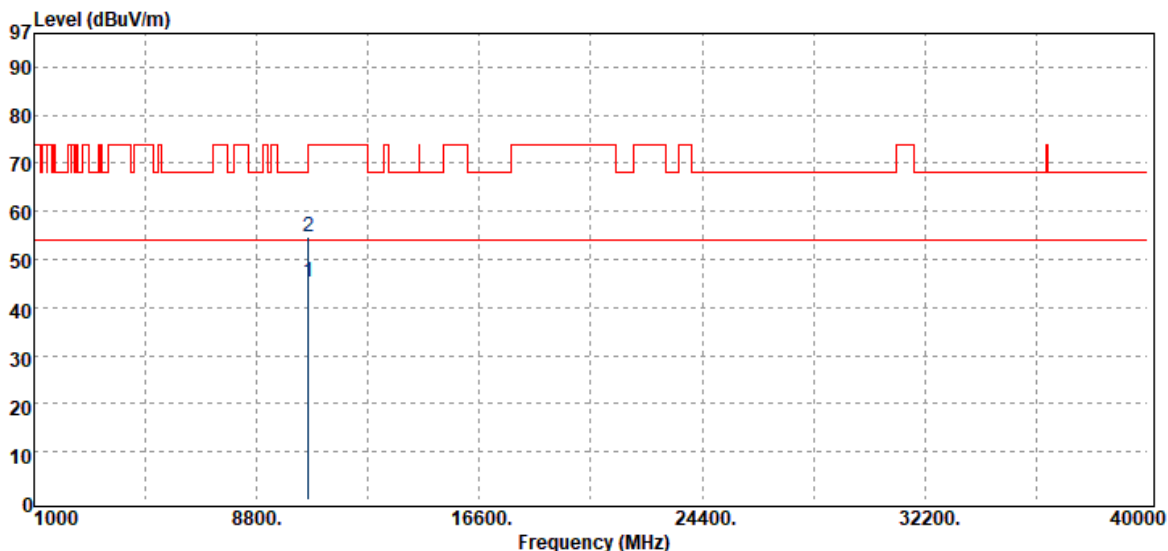
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
10620.00	Average	25.26	20.12	45.38	54.00	-8.62
10620.00	Peak	34.66	20.12	54.78	74.00	-19.22

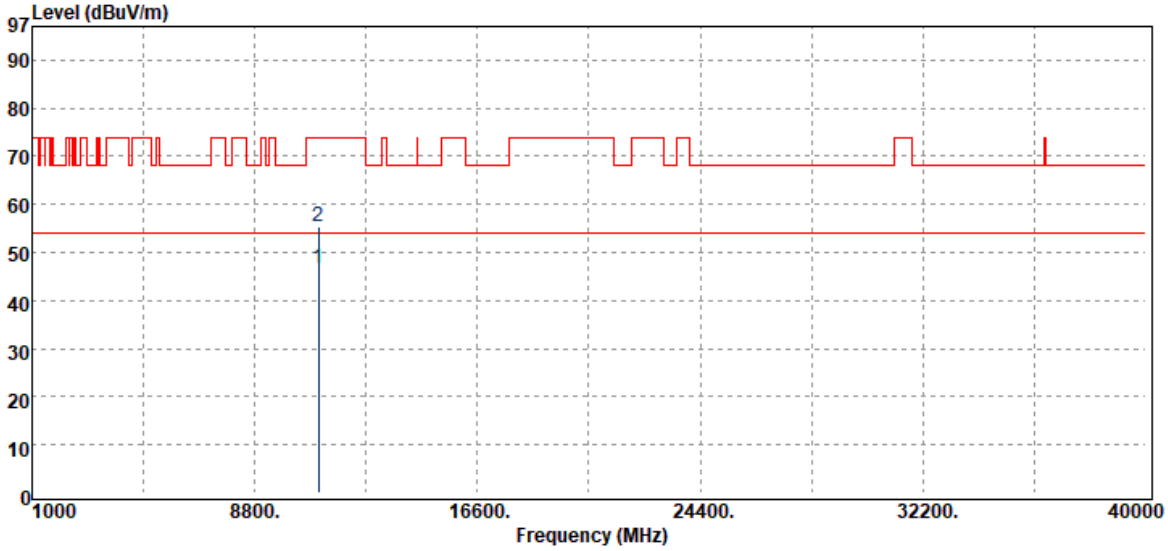
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11020.00	Average	25.16	21.61	46.77	54.00	-7.23
11020.00	Peak	33.62	21.61	55.23	74.00	-18.77

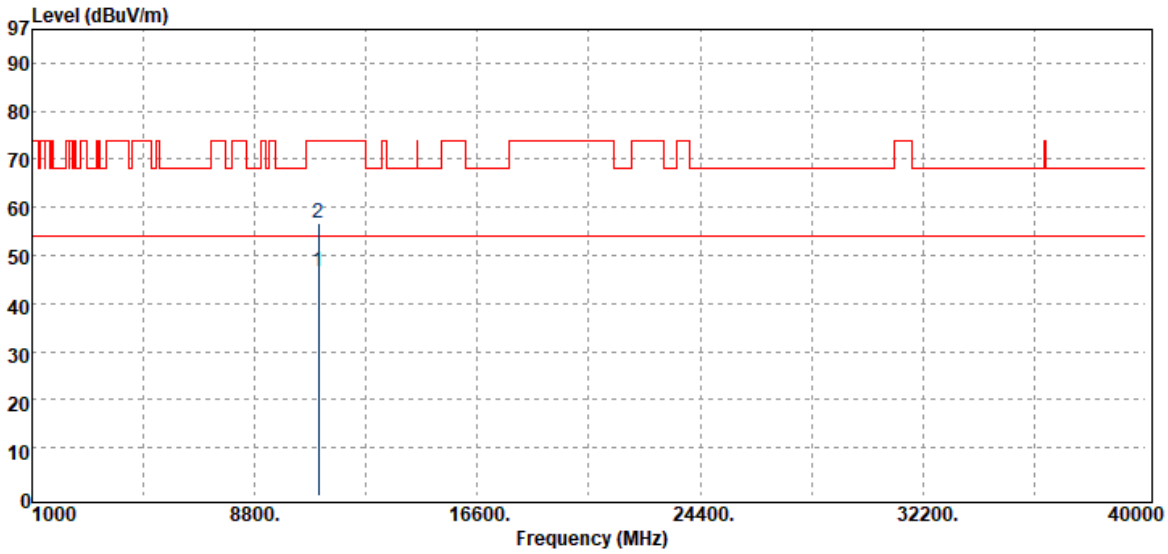
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11020.00	Average	25.02	21.61	46.63	54.00	-7.37
11020.00	Peak	35.04	21.61	56.65	74.00	-17.35

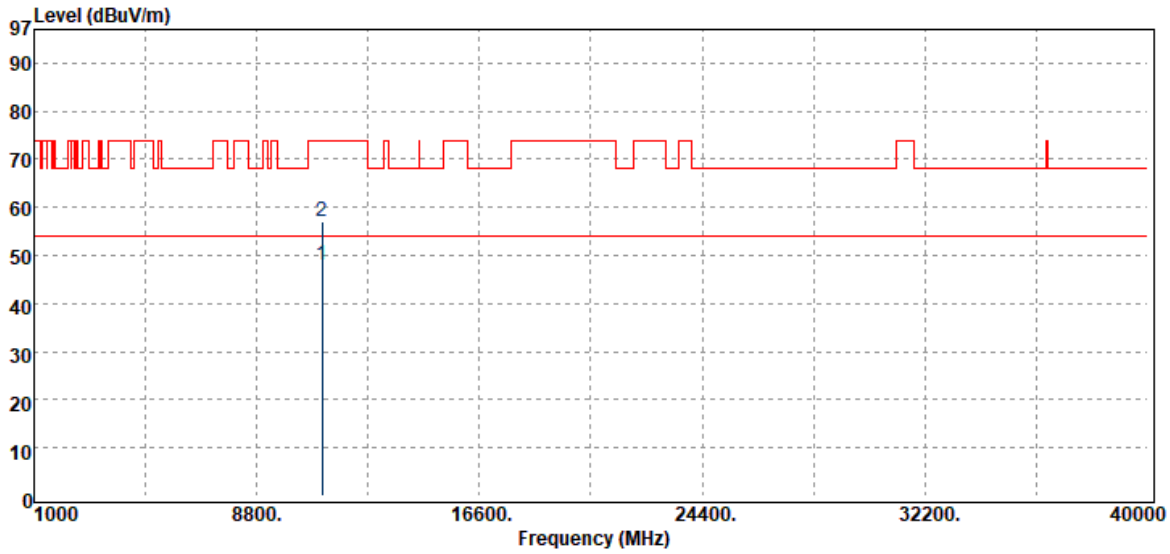
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



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
11100.00	Average	25.17	22.83	48.00	54.00	-6.00
11100.00	Peak	34.07	22.83	56.90	74.00	-17.10

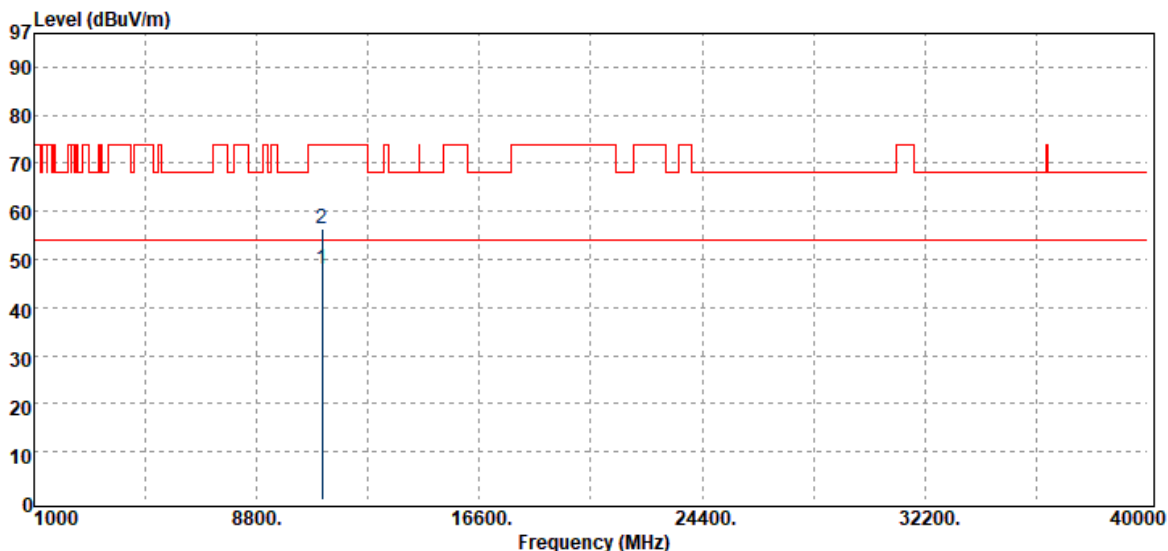
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11100.00	Average	25.10	22.83	47.93	54.00	-6.07
11100.00	Peak	33.42	22.83	56.25	74.00	-17.75

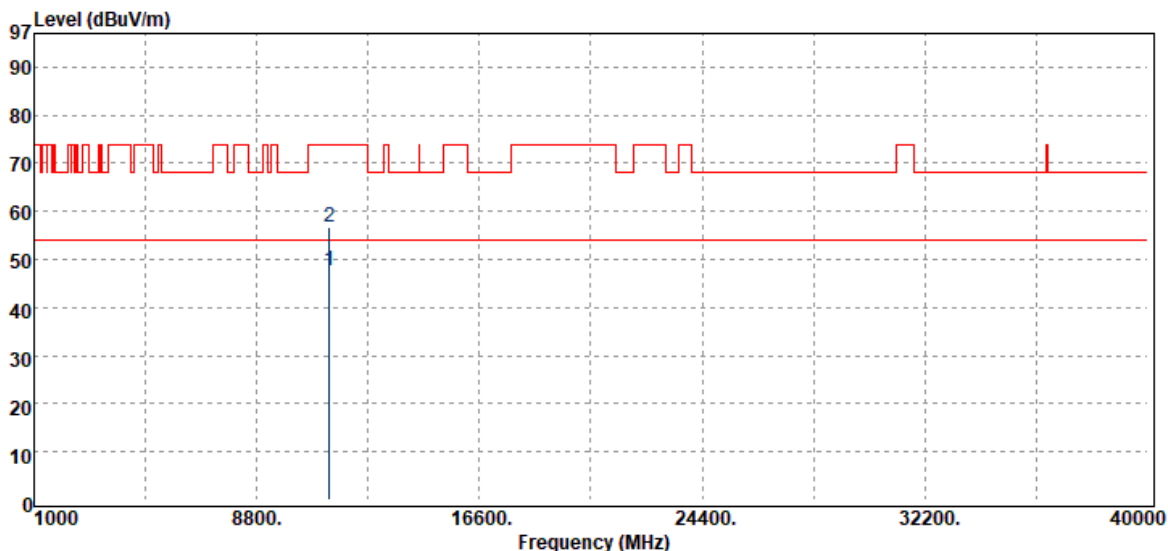
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Average	25.40	22.19	47.59	54.00	-6.41
11340.00	Peak	34.47	22.19	56.66	74.00	-17.34

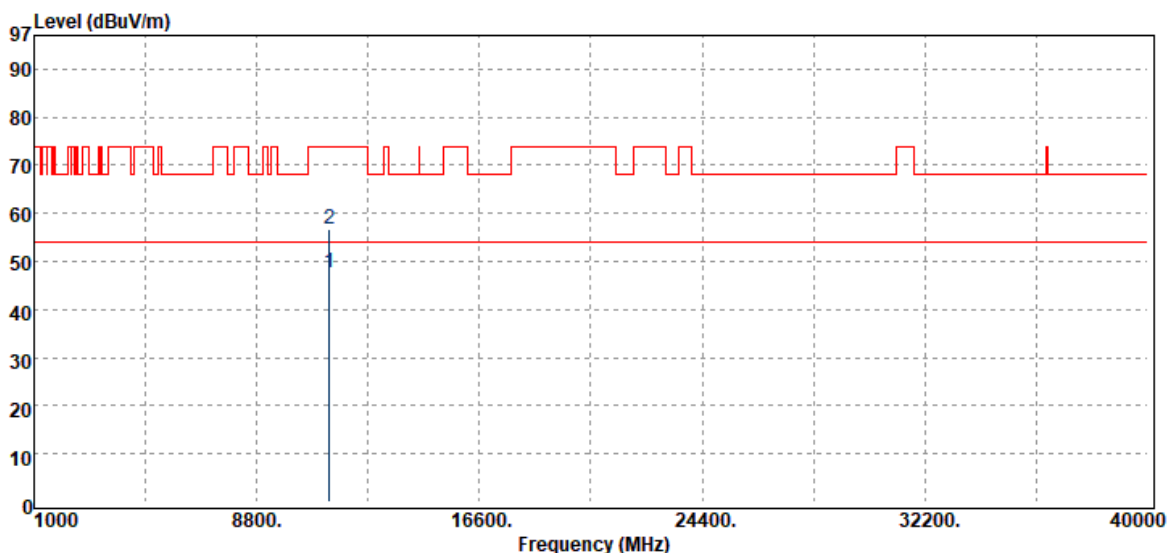
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Report Number :ER-2021-40063
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC III Chamber
 Test Date :2021-04-23
 Temp./Humi. :24.5/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



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
11340.00	Average	25.39	22.19	47.58	54.00	-6.42
11340.00	Peak	34.52	22.19	56.71	74.00	-17.29

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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