

# ELECTROMAGNETIC EMISSIONS COMPLIANCE CLASS II PERMISSIVE CHANGE REPORT



**Applicant:** MediaTek Inc.  
No. 1, Dusing 1<sup>st</sup> Rd., Hsinchu Science Park Hsinchu City  
30078 Taiwan

**Product Name:** 2TX 11ax (WiFi6)+BLE Combo Card

**Brand Name:** MediaTek

**Model No.:** MT7921

**Model Difference:** N/A

**Report Number:** E2/2021/A0069

**FCC ID** RAS-MT7921

**Issue Date:** January 10, 2022

**Date of Test:** October 13, 2021 ~ October 26, 2021

**Date of EUT Received:** October 13, 2021

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

Jay Lin

## 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.

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

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2021/A0069	00	Original.	January 10, 2022	Karen Huang	

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## 1 GENERAL INFORMATION

### 1.1 Product description of host:

Product Name:	Portable Computer
Brand Name:	DELL
Model No.:	P152G
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	7193004100004
Power Supply:	15Vdc

### 1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
	1024QAM for OFDMA in 802.11ax only
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps
	802.11 ax_20MHz: 8.6 - 286.8 Mbps
	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps

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### 1.3 Antenna Designation

TOP/BASE Antenna	Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (Main+Aux) (dBi)	Worst Antenna Gain
TOP	PIFA	AWAN	Main	AYP6Y-200044 (DC33002N12L)	5150~5250	-0.94	3.25	
					5250~5350	-0.79	3.25	
					5470~5725	0.15	3.18	
					5725~5850	2.78	4.61	
			Aux	AYP6Y-200044 (DC33002N12L)	5150~5250	1.16	-	
					5250~5350	1.16	-	
					5470~5725	0.66	-	
					5725~5850	1.19	-	
TOP	PIFA	Hong Bo Co., Ltd.	Main	260-24392 (DC33002N52L)	5150~5250	0.07	4.32	
					5250~5350	0.56	4.90	
					5470~5725	1.23	4.55	
					5725~5850	0.65	4.09	
			Aux	260-24392 (DC33002N52L)	5150~5250	2.27	-	
					5250~5350	2.91	-	
					5470~5725	1.82	-	
					5725~5850	1.75	-	
BASE	PIFA	AWAN	Main	AYP6Y-100256 (DC33002N10L)	5150~5250	2.25	5.18	
					5250~5350	1.52	4.11	
					5470~5725	2.72	5.11	
					5725~5850	2.94	<b>5.68</b>	V
			Aux	AYP6Y-100257 (DC33002N11L)	5150~5250	2.08	-	
					5250~5350	0.68	-	
					5470~5725	1.48	-	
					5725~5850	2.38	-	

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BASE	PIFA	Hong Bo Co., Ltd.	Main	260-24390 (DC33002N50L)	5150~5250	2.35	<b>5.26</b>	V
					5250~5350	2.53	<b>5.47</b>	V
					5470~5725	2.53	<b>5.35</b>	V
					5725~5850	2.71	5.26	
			Aux	260-24391 (DC33002N51L)	5150~5250	2.15	-	
					5250~5350	2.38	-	
					5470~5725	2.48	-	
					5725~5850	1.73	-	

**Note:**

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

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## 1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ ac_VHT/ ax_HE 20M	5180~5240	4	17.99 dBm	OFDM
	5260~5320	4	17.49 dBm	OFDM
	5500~5720	12	15.96 dBm	OFDM
	5745~5825	5	21.48 dBm	OFDM
ac_VHT/ ax_HE 40M	5190~5230	2	17.96 dBm	OFDMA
	5270~5310	2	17.49 dBm	OFDM
	5510~5710	6	15.98 dBm	OFDM
	5755~5795	2	20.65 dBm	OFDMA
ac_VHT/ ax_HE 80M	5210	1	17.08 dBm	OFDMA
	5290	1	17.26 dBm	OFDMA
	5530~5690	3	15.98 dBm	OFDM
	5775	1	19.33 dBm	OFDM

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## 1.5 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

ANSI C63.10:2013

## 1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

## 1.7 Special Accessories

There are no special accessories used while test was conducted.

## 1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Test (RF)

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

#### 2.3.2 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

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

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

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

### 2.4.2 For all conducted test items:

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

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## 2.5 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	N/A					

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### 3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 802.11a/n/ac/ax operated 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 5725 MHz ~5850 MHz:

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

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## 4.2 The Worst Test Modes and Channel Details

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

The gevin UE is pre-scanned among below modes.

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

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4. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, heighest and Full RU results higher emissions.  
Only one RU can be enabled at any given time.

802.11ax	20MHz				802.11ax	40MHz			
RU type	26-tone RU		52-tone RU		RU type	26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-121: -96]	RU37	[-121: -70]	RU index and subcarrier range	RU0	[-243: -218]	RU37	[-243: -192]
	RU1	[-95: -70]	RU38	[-68: -17]		RU1	[-217: -192]	RU38	[-189: -138]
	RU2	[-68: -43]	RU39	[17: 68]		RU2	[-189: -164]	RU39	[-109: -58]
	RU3	[-42: -17]	RU40	[70: 121]		RU3	[-163: -138]	RU40	[-55: -4]
	RU4	[-16: -4, 4: 16]	RU41	N/A		RU4	[-136: -111]	RU41	[4: 55]
	RU5	[17: 42]	RU42	N/A		RU5	[-109: -84]	RU42	[58: 109]
	RU6	[43: 68]	RU43	N/A		RU6	[-83: -58]	RU43	[138: 189]
	RU7	[70: 95]	RU44	N/A		RU7	[-55: -30]	RU44	[192: 243]
	RU8	[96: 121]	RU45	N/A		RU8	[-29: -4]	RU45	N/A
	RU9	N/A	RU46	N/A		RU9	[4: 29]	RU46	N/A
	RU10	N/A	RU47	N/A		RU10	[30: 55]	RU47	N/A
	RU11	N/A	RU48	N/A		RU11	[58: 83]	RU48	N/A
	RU12	N/A	RU49	N/A		RU12	[84: 109]	RU49	N/A
	RU13	N/A	RU50	N/A		RU13	[111: 136]	RU50	N/A
	RU14	N/A	RU51	N/A		RU14	[138: 163]	RU51	N/A
	RU15	N/A	RU52	N/A		RU15	[164: 189]	RU52	N/A
	RU16	N/A				RU16	[192: 217]		
	RU17	N/A	106-tone RU			RU17	[218: 243]	106-tone RU	
	RU18	N/A	RU53	[-122: -17]		RU18	N/A	RU53	[-243: -138]
	RU19	N/A	RU54	[17: 122]		RU19	N/A	RU54	[-109: -4]
	RU20	N/A	RU55	N/A		RU20	N/A	RU55	[4: 109]
	RU21	N/A	RU56	N/A		RU21	N/A	RU56	[138: 243]
	RU22	N/A	RU57	N/A		RU22	N/A	RU57	N/A
	RU23	N/A	RU58	N/A		RU23	N/A	RU58	N/A
	RU24	N/A	RU59	N/A		RU24	N/A	RU59	N/A
	RU25	N/A	RU60	N/A		RU25	N/A	RU60	N/A
	RU26	N/A				RU26	N/A		
	RU27	N/A	242-tone RU			RU27	N/A	242-tone RU	
	RU28	N/A	RU61	[-122: -2, 2:122]		RU28	N/A	RU61	[-244: -3]
	RU29	N/A	RU62	N/A		RU29	N/A	RU62	[3: 244]
	RU30	N/A	RU63	N/A		RU30	N/A	RU63	N/A
	RU31	N/A	RU64	N/A		RU31	N/A	RU64	N/A
	RU32	N/A				RU32	N/A		
	RU33	N/A				RU33	N/A	484-tone RU	
	RU34	N/A				RU34	N/A	RU65	[-244: -3, 3: 244]
	RU35	N/A				RU35	N/A	RU66	N/A
RU36	N/A			RU36	N/A				

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802.11ax	80MHz			
RU type	26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-499: -474]	RU37	[-499: -448]
	RU1	[-473: -448]	RU38	[-445: -394]
	RU2	[-445: -420]	RU39	[-365: -314]
	RU3	[-419: -394]	RU40	[-311: -260]
	RU4	[-392: -367]	RU41	[-257: -206]
	RU5	[-365: -340]	RU42	[-203: -152]
	RU6	[-339: -314]	RU43	[-123: -72]
	RU7	[-311: -286]	RU44	[-69: -18]
	RU8	[-285: -260]	RU45	[18: 69]
	RU9	[-257: -232]	RU46	[72: 123]
	RU10	[-231: -206]	RU47	[152: 203]
	RU11	[-203: -178]	RU48	[206: 257]
	RU12	[-177: -152]	RU49	[260: 311]
	RU13	[-150: -125]	RU50	[314: 365]
	RU14	[-123: -98]	RU51	[394: 445]
	RU15	[-97: -72]	RU52	[448: 499]
	RU16	[-69: -44]	106-tone RU	
	RU17	[-43: -18]	RU53	[-499: -394]
	RU18	[-16: -4, 4: 16]	RU54	[-365: -260]
	RU19	[18: 43]	RU55	[-257: -152]
	RU20	[44: 69]	RU56	[-123: -18]
	RU21	[72: 97]	RU57	[18: 123]
	RU22	[98: 123]	RU58	[152: 257]
	RU23	[125: 150]	RU59	[260: 365]
	RU24	[152: 177]	RU60	[394: 499]
	RU25	[178: 203]	242-tone RU	
	RU26	[206: 231]	RU61	[-500: -259]
	RU27	[232: 257]	RU62	[-258: -17]
	RU28	[260: 285]	RU63	[17: 258]
	RU29	[286: 311]	RU64	[259: 500]
	RU30	[314: 339]	484-tone RU	
	RU31	[340: 365]	RU65	[-500: -17]
	RU32	[367: 392]	RU66	[17: 500]
	RU33	[394: 419]	996-tone RU	
	RU34	[420: 445]	RU67	[-500: -3, 3: 500]
	RU35	[448: 473]		
	RU36	[474: 499]		

5. 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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#### 4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	MIMO
	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			
802.11ac_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	MIMO
	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				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	MIMO
	5270~5310	54 to 62	54,62				
	5510~5670	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 484/65,484/66	MCS0	MIMO
	5290	58	58				
	5530~5610	106 to 138	106,122,138				
	5775	155	155				

#### Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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## 4.2.2 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	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	MIMO
	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			
802.11ac_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	MIMO
	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				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	MIMO
	5270~5310	54 to 62	54,62				
	5510~5670	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 484/65,484/66	MCS0	MIMO
	5290	58	58				
	5530~5610	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 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device )	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

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 direction-al gain of the antenna exceeds 6 dBi.

#### Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

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

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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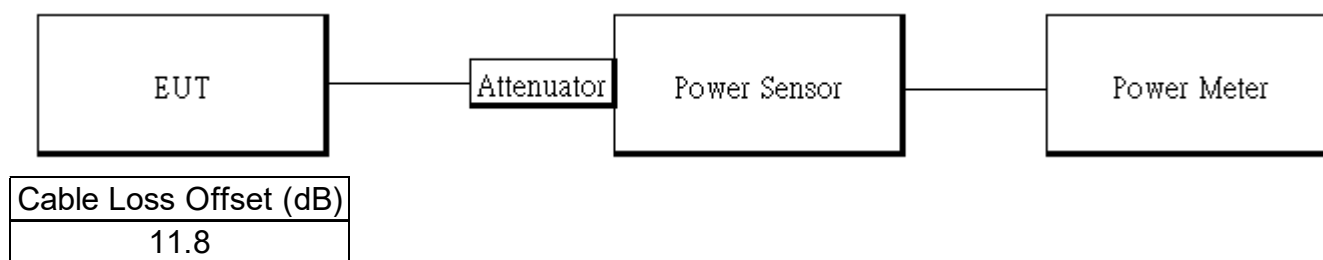
## 6.2 Measurement Procedure

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  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

## 6.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022
Attenuator	Marvelous	MVE2213-10	RF06	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF18	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF154	11/19/2020	11/18/2021

## 6.4 Test Set-up



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## 6.5 Measurement Result

### 6.5.1 Conducted output power (FCC)

#### 802.11a\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	11.5	14.92	14.55	17.90	61.660	30	PASS
44	5220	6	11.5	14.98	14.56	17.94	62.230	30	PASS
48	5240	6	11.5	14.99	14.63	<b>17.98</b>	62.806	30	PASS
52	5260	6	11	14.44	14.18	17.48	55.976	23.98	PASS
60	5300	6	11	14.33	14.3	17.48	55.976	23.98	PASS
64	5320	6	11	14.39	14.27	<b>17.49</b>	56.105	23.98	PASS
100	5500	6	9	12.82	12.74	15.94	39.264	23.98	PASS
116	5580	6	9	12.97	12.62	<b>15.96</b>	39.446	23.98	PASS
140	5700	6	8.5	12.79	12.48	15.80	38.019	23.98	PASS
144	5720(U-NII 2C)	6	8.5	11.33	11.00	14.33	27.082	23.32	PASS
144	5720 (U-NII 3)	6	8.5	7.49	7.19	10.50	11.229	30	PASS
149	5745	6	14.5	18.4	18.08	21.41	138.357	30	PASS
157	5785	6	14.5	18.28	18.2	21.40	138.038	30	PASS
165	5825	6	14	18.55	18.06	<b>21.48</b>	140.605	30	PASS

#### 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	12.5	14.75	14.53	17.92	61.944	30	PASS
44	5220	MCS0	12.5	14.9	14.44	17.96	62.517	30	PASS
48	5240	MCS0	12.5	14.86	14.5	<b>17.97</b>	62.661	30	PASS
52	5260	MCS0	12	14.23	13.91	17.36	54.450	23.98	PASS
60	5300	MCS0	12	14.17	13.98	17.36	54.450	23.98	PASS
64	5320	MCS0	12	14.23	14.15	<b>17.47</b>	55.847	23.98	PASS
100	5500	MCS0	11.5	12.72	12.52	<b>15.90</b>	38.905	23.98	PASS
116	5580	MCS0	11	12.72	12.38	15.84	38.371	23.98	PASS
140	5700	MCS0	11	12.77	12.37	15.86	38.548	23.98	PASS
144	5720(U-NII 2C)	MCS0	11	11.32	10.99	14.44	27.794	23.35	PASS
144	5720 (U-NII 3)	MCS0	11	7.51	7.10	10.59	11.460	30	PASS
149	5745	MCS0	17	18.31	17.79	21.22	132.434	30	PASS
157	5785	MCS0	16	18.31	17.95	<b>21.30</b>	134.896	30	PASS
165	5825	MCS0	15.5	18.07	17.92	21.16	130.617	30	PASS

#### 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	13.5	14.49	14.28	<b>17.91</b>	61.802	30	PASS
46	5230	MCS0	13.5	14.46	14.27	17.89	61.518	30	PASS
54	5270	MCS0	13	14.13	13.71	<b>17.45</b>	55.590	23.98	PASS
62	5310	MCS0	13	13.98	13.79	17.41	55.081	23.98	PASS
102	5510	MCS0	12.5	12.51	12.14	15.85	38.459	23.98	PASS
110	5550	MCS0	12	12.45	12.22	15.86	38.548	23.98	PASS
134	5670	MCS0	12	12.4	12.3	<b>15.87</b>	38.637	23.98	PASS
142	5710(U-NII 2C)	MCS0	8	8.73	8.38	12.08	16.144	23.98	PASS
142	5710 (U-NII 3)	MCS0	8	0.37	-0.02	3.70	2.344	30	PASS
151	5755	MCS0	17	17.43	17.11	<b>20.44</b>	110.662	30	PASS
159	5795	MCS0	17	17.16	16.96	20.23	105.439	30	PASS

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## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	13.5	12.96	12.84	<b>16.82</b>	48.084	30	PASS
58	5290	MCS0	14	13.46	12.95	<b>17.14</b>	51.761	23.98	PASS
106	5530	MCS0	13.5	12.49	11.3	15.86	38.548	23.98	PASS
122	5610	MCS0	13.5	12.1	11.99	<b>15.97</b>	39.537	23.98	PASS
138	5690(U-NII 2C)	MCS0	7	6.81	5.90	10.30	10.719	23.98	PASS
138	5690 (U-NII 3)	MCS0	7	-5.15	-6.07	-1.67	0.681	30	PASS
155	5775	MCS0	17.5	16.37	15.96	<b>19.33</b>	85.704	30	PASS

## 802.11ax\_HE20\_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
36	5180	MCS0	full	12.5	14.6	14.49	<b>17.90</b>	61.660	30	PASS
44	5220	MCS0	full	12.5	14.57	14.36	17.82	60.534	30	PASS
48	5240	MCS0	full	12.5	14.66	14.41	17.89	61.518	30	PASS
52	5260	MCS0	full	12	14.28	13.84	17.42	55.208	23.98	PASS
60	5300	MCS0	full	12	14.27	13.89	17.44	55.463	23.98	PASS
64	5320	MCS0	full	12.5	14.44	13.81	<b>17.49</b>	56.105	23.98	PASS
100	5500	MCS0	full	11	12.82	12.33	15.94	39.264	23.98	PASS
116	5580	MCS0	full	11	12.72	12.46	<b>15.95</b>	39.355	23.98	PASS
140	5700	MCS0	full	10.5	12.55	12.32	15.79	37.931	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	10.5	11.31	10.84	14.44	27.810	23.05	PASS
144	5720 (U-NII 3)	MCS0	full	10.5	7.07	7.00	10.39	10.952	30	PASS
149	5745	MCS0	full	16.5	18.41	17.83	21.29	134.586	30	PASS
157	5785	MCS0	full	16.5	18.61	17.97	<b>21.47</b>	140.281	30	PASS
165	5825	MCS0	full	16.5	18.55	18.02	21.46	139.959	30	PASS

## 802.11ax\_HE40\_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
38	5190	MCS0	full	13	14.31	14.28	17.86	61.094	30	PASS
46	5230	MCS0	full	13	14.41	14.37	<b>17.96</b>	62.517	30	PASS
54	5270	MCS0	full	12.5	13.97	13.85	17.48	55.976	23.98	PASS
62	5310	MCS0	full	12.5	13.94	13.9	<b>17.49</b>	56.105	23.98	PASS
102	5510	MCS0	full	12	12.49	12.12	15.88	38.726	23.98	PASS
110	5550	MCS0	full	12	12.52	12.24	15.95	38.726	23.98	PASS
134	5670	MCS0	full	12	12.45	12.33	<b>15.96</b>	39.446	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	9	9.19	7.07	11.83	15.226	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	9	0.44	-1.62	3.10	2.041	30	PASS
151	5755	MCS0	full	17.5	17.66	17.31	<b>20.65</b>	116.145	30	PASS
159	5795	MCS0	full	17.5	17.61	17.3	20.62	115.345	30	PASS

## 802.11ax\_HE80\_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
42	5210	MCS0	full	13.5	13.35	13.09	<b>17.08</b>	51.050	30	PASS
58	5290	MCS0	full	14	13.52	13.28	<b>17.26</b>	53.211	23.98	PASS
106	5530	MCS0	full	13.5	12.34	11.88	<b>15.98</b>	39.628	23.98	PASS
122	5610	MCS0	full	13	12.1	12	15.91	38.994	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	7	6.89	6.61	10.61	11.502	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	7	-4.96	-5.25	-1.24	0.751	30	PASS
155	5775	MCS0	full	17.5	16.2	16.07	<b>19.30</b>	85.114	30	PASS

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## 7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 7.1 Standard Applicable

#### 7.1.1 Band Edge

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

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

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

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

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### 7.1.2 Spurious Emission

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

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

**Note:**

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

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## 7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022
Loop Antenna	ETS.LINDGRE N	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021
Highpass Filter	WI	WHKX10-2624-3200-1800-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-6090-7000-17000-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-1066-1300-1500-80SS	18	05/10/2021	05/09/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224 、 210306	03/15/2021	03/14/2022

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

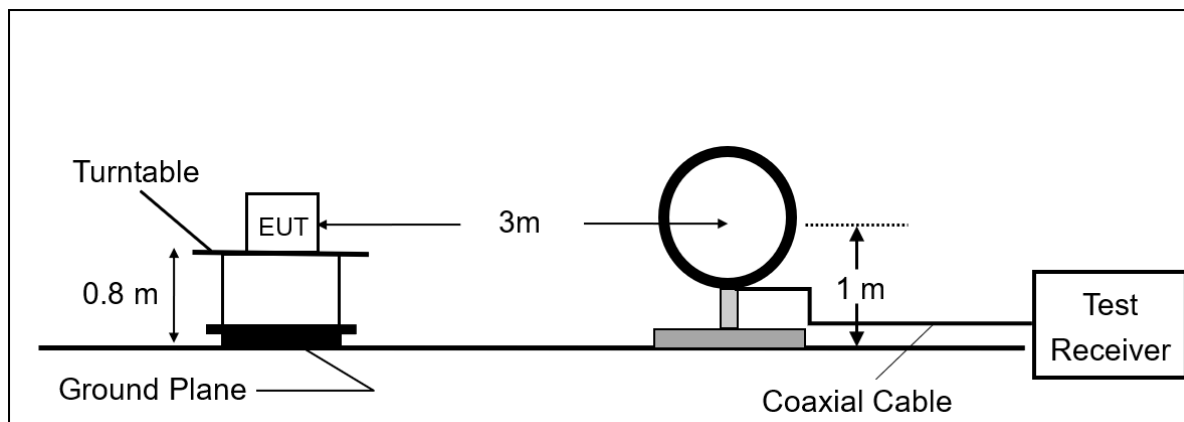
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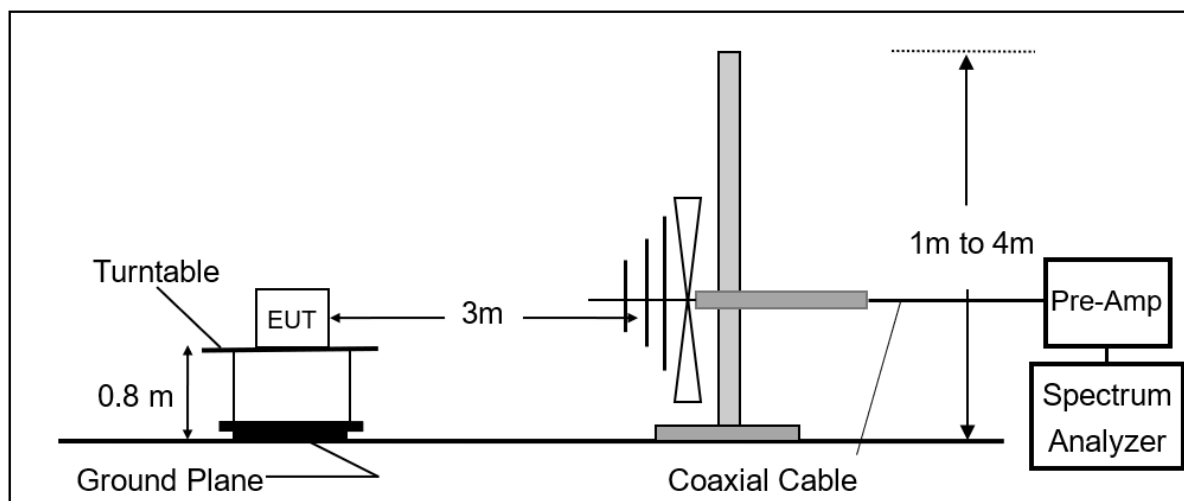
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## 7.3 Test SET-UP

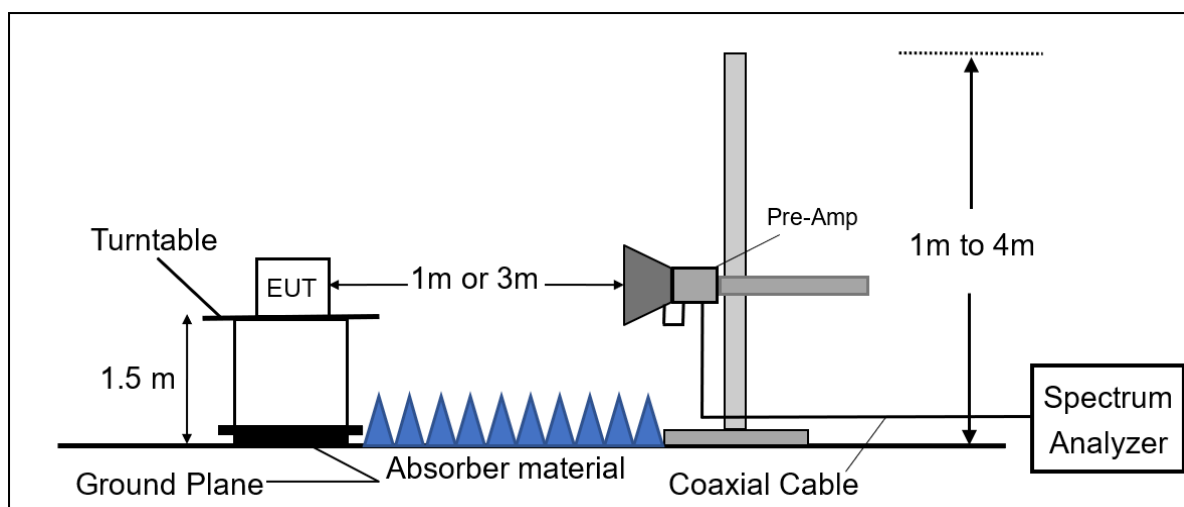
### (A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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## 7.4 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=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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## 7.5 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)*

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) 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.

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.

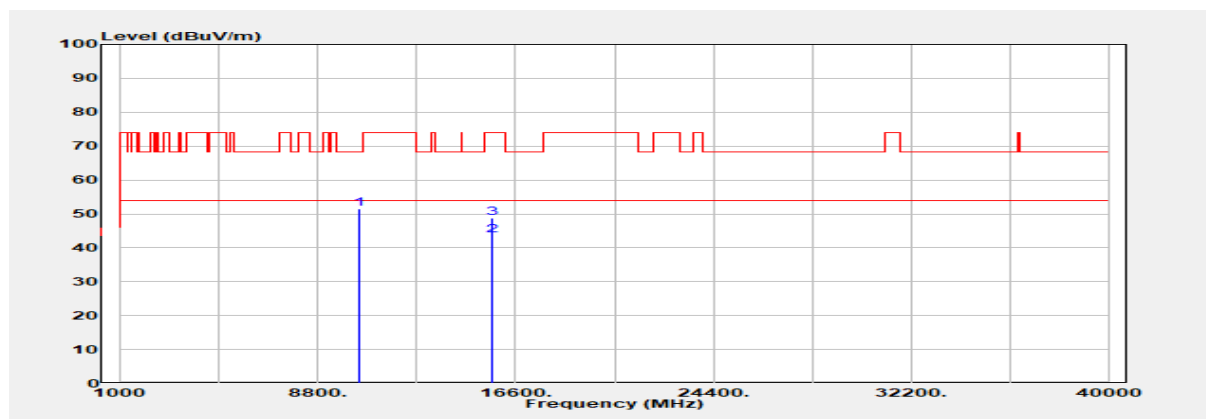
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## 7.7 Radiated Spurious Emission Measurement Result

### 7.7.1 Radiated Emission Worst-Case Data:

Report Number	:E2/2021/A0069	Test Site	:SAC G
Operation Mode	:802.11a / Band 1	Test Date	:2021-10-16
Test Frequency	:5220 MHz	Temp./Humi.	:25.1/63
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.000	Peak	41.75	9.68	51.43	68.20	-16.77
15660.000	Average	32.16	11.61	43.76	54.00	-10.24
15660.000	Peak	37.06	11.61	48.67	74.00	-25.33

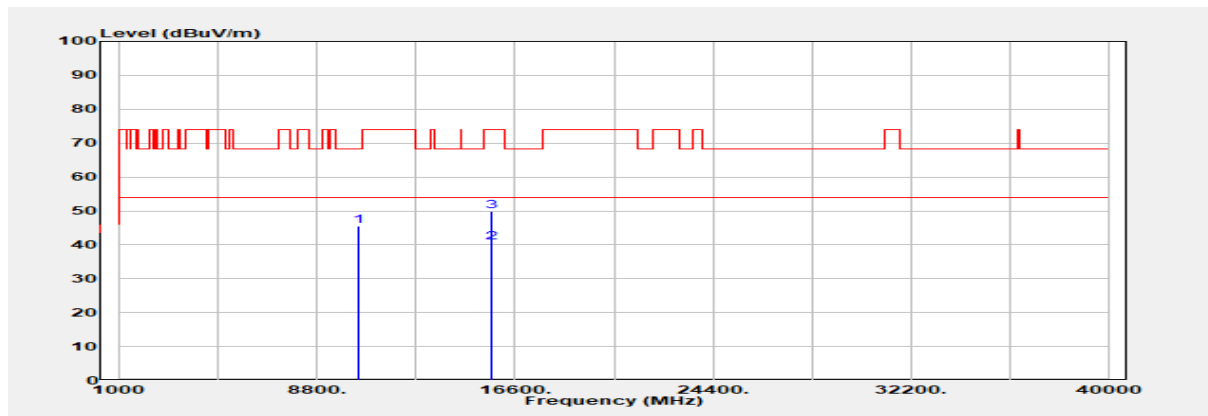
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 1  
 Test Frequency :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :25.1/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.000	Peak	35.79	9.68	45.47	68.20	-22.73
15660.000	Average	28.98	11.61	40.59	54.00	-13.41
15660.000	Peak	38.24	11.61	49.85	74.00	-24.15

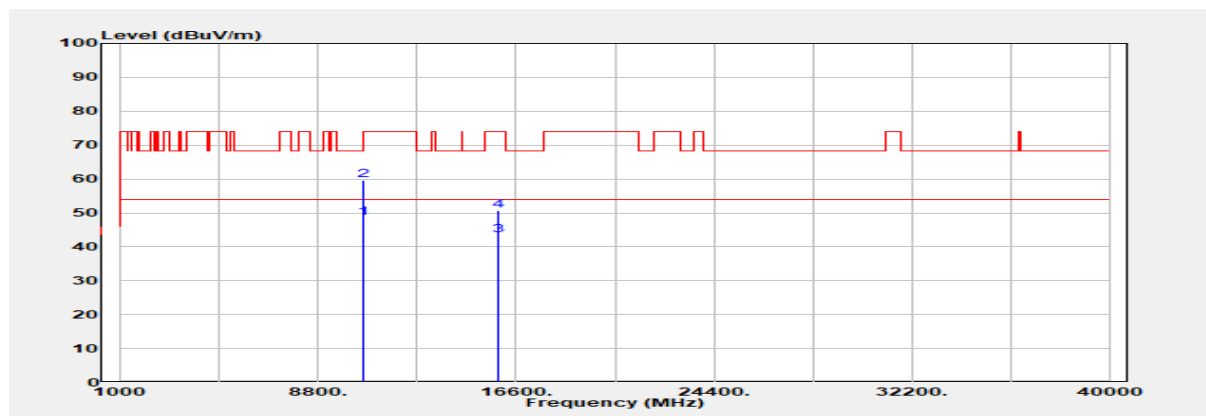
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5300 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :25.1/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.000	Average	39.47	8.99	48.46	54.00	-5.54
10600.000	Peak	50.64	8.99	59.63	74.00	-14.37
15900.000	Average	31.31	12.01	43.32	54.00	-10.68
15900.000	Peak	38.70	12.01	50.71	74.00	-23.29

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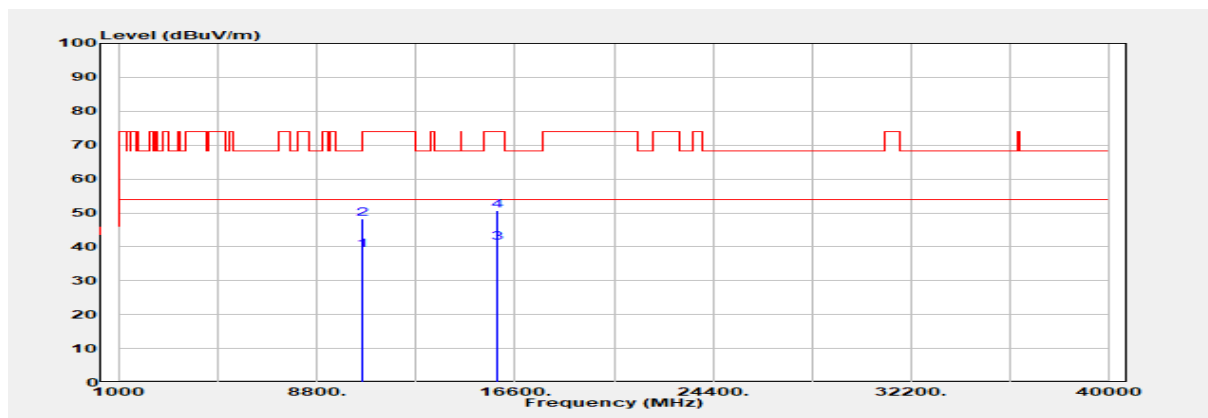
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5300 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :25.1/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Average	30.12	8.99	39.11	54.00	-14.89
10600.000	Peak	39.37	8.99	48.36	74.00	-25.64
15900.000	Average	29.10	12.01	41.11	54.00	-12.89
15900.000	Peak	38.62	12.01	50.63	74.00	-23.37

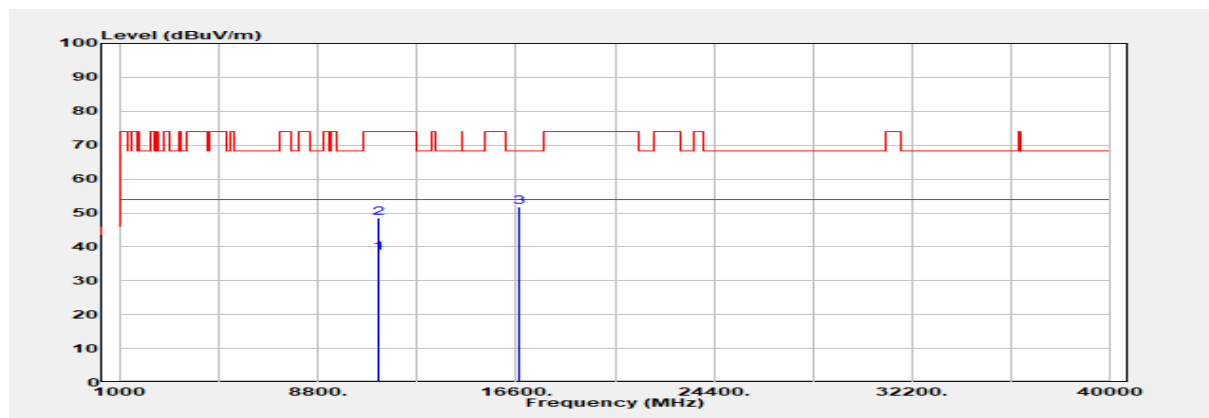
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5580 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :25.1/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.000	Average	28.80	9.36	38.16	54.00	-15.84
11160.000	Peak	39.06	9.36	48.42	74.00	-25.58
16740.000	Peak	40.47	11.29	51.76	68.20	-16.44

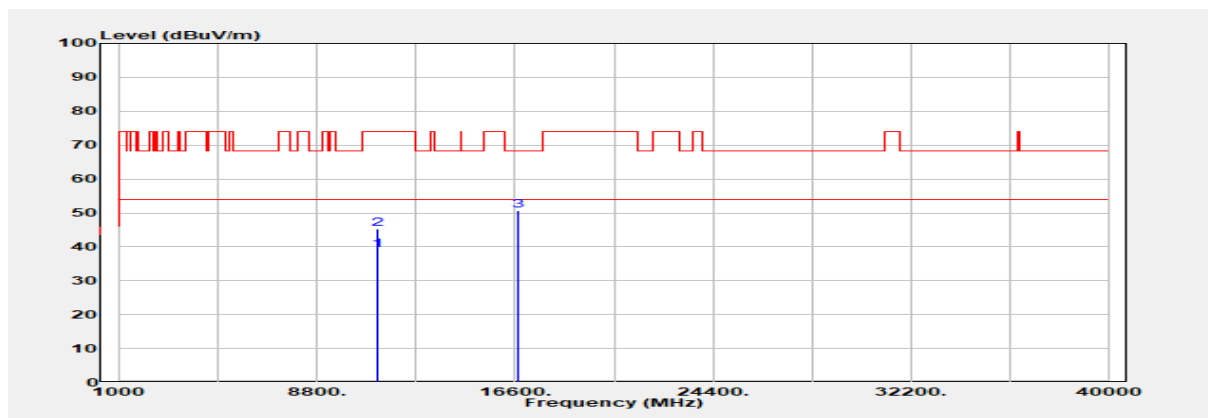
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5580 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :25.1/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.000	Average	29.70	9.36	39.06	54.00	-14.94
11160.000	Peak	35.82	9.36	45.18	74.00	-28.82
16740.000	Peak	39.32	11.29	50.61	68.20	-17.59

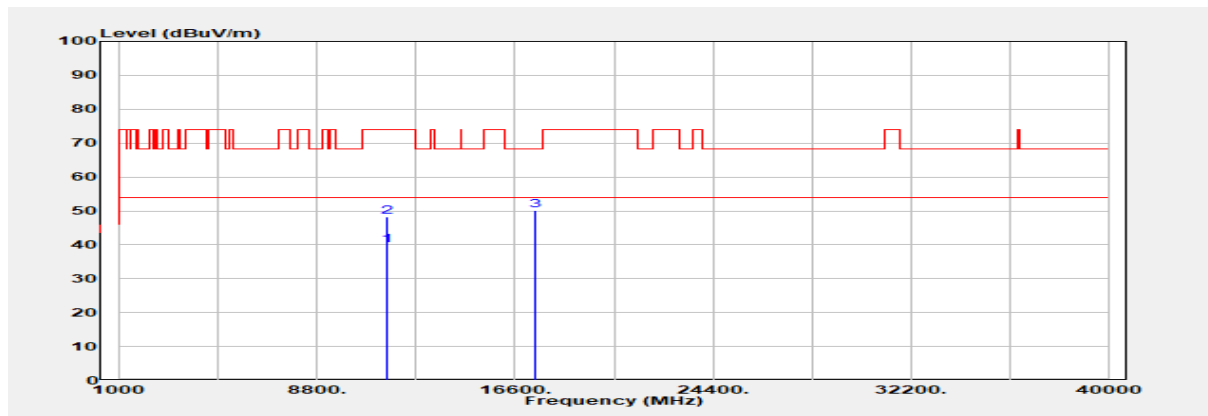
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :25.1/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	29.85	10.00	39.85	54.00	-14.15
11570.000	Peak	38.31	10.00	48.31	74.00	-25.69
17355.000	Peak	39.17	10.90	50.07	68.20	-18.13

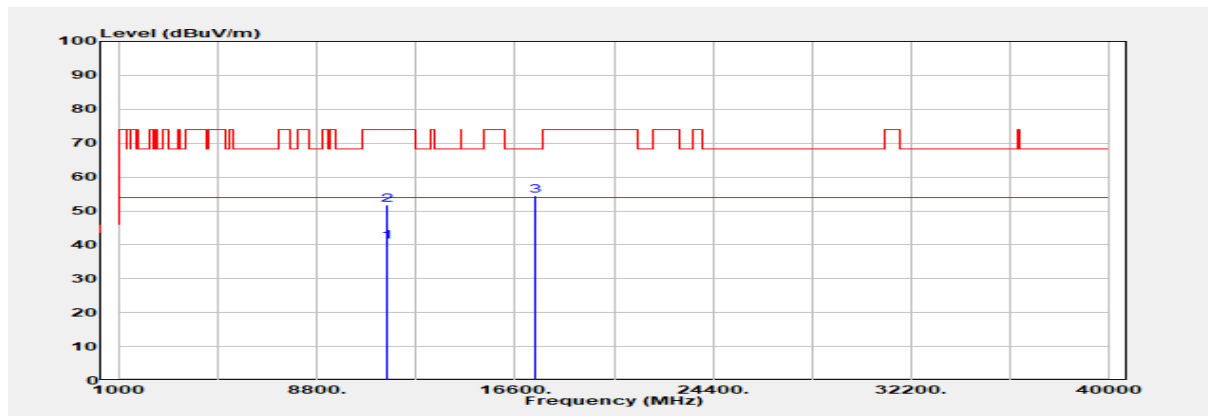
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :25.1/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.000	Average	30.83	10.00	40.83	54.00	-13.17
11570.000	Peak	41.64	10.00	51.63	74.00	-22.37
17355.000	Peak	43.67	10.90	54.57	68.20	-13.63

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## 7.7.2 Band edge falling to restricted band

Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11a / Band 1

Test Date :2021-10-26

Test Frequency :5180 MHz

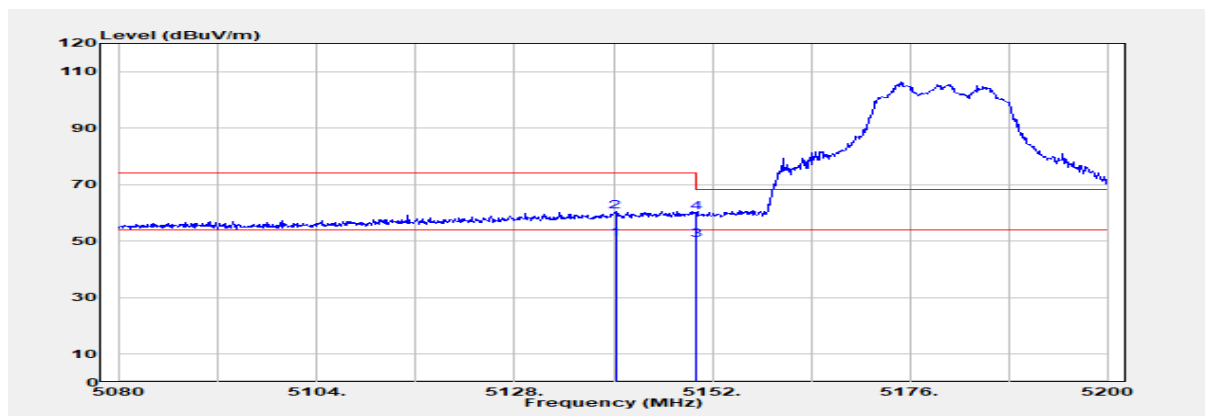
Temp./Humi. :24.5/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5140.240	Average	47.82	2.80	50.61	54.00	-3.39
5140.240	Peak	57.78	2.80	60.58	74.00	-13.42
5150.000	Average	47.50	3.03	50.53	54.00	-3.47
5150.000	Peak	57.22	3.03	60.25	74.00	-13.75

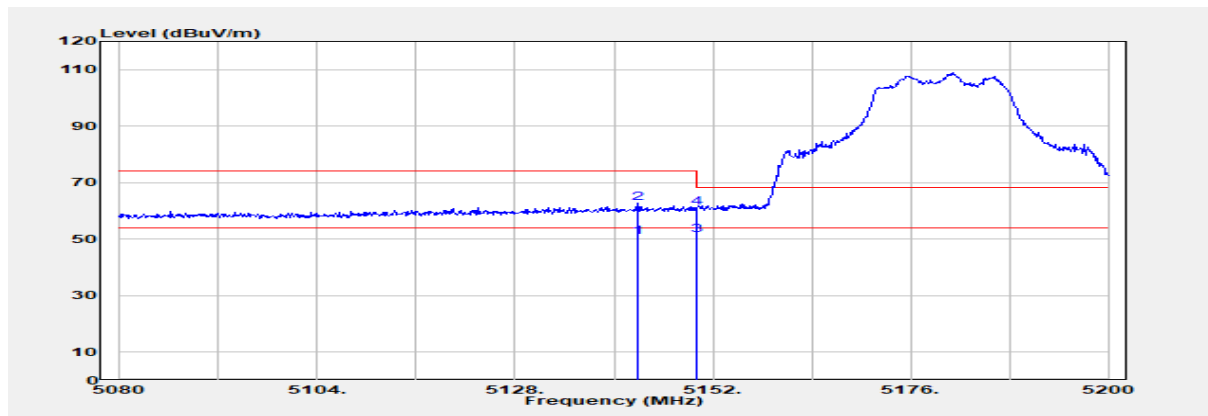
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5142.880	Average	47.86	2.86	50.72	54.00	-3.28
5142.880	Peak	59.89	2.86	62.75	74.00	-11.25
5150.000	Average	48.37	3.03	51.40	54.00	-2.60
5150.000	Peak	58.12	3.03	61.15	74.00	-12.85

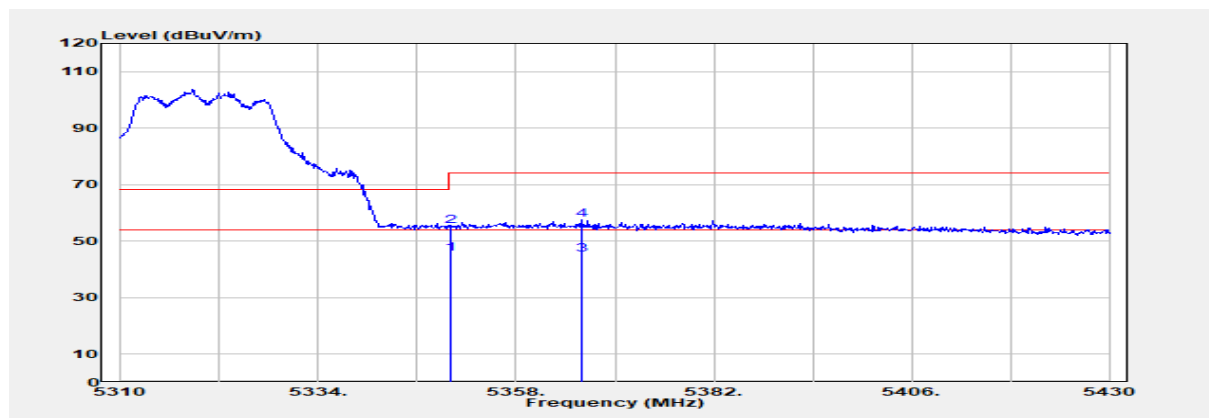
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	43.19	2.21	45.40	54.00	-8.60
5350.000	Peak	52.95	2.21	55.16	74.00	-18.84
5365.920	Average	42.83	2.27	45.11	54.00	-8.89
5365.920	Peak	55.26	2.27	57.54	74.00	-16.46

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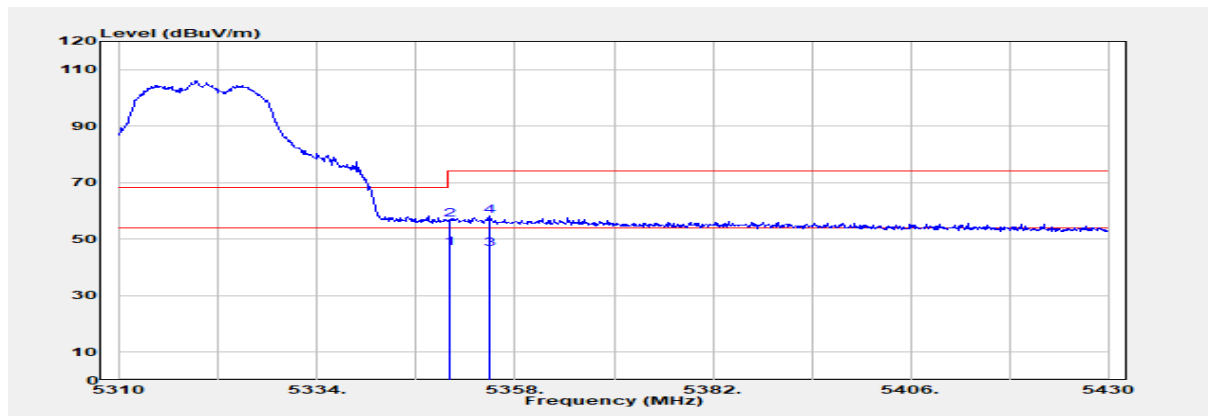
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.53	2.21	46.74	54.00	-7.26
5350.000	Peak	54.55	2.21	56.76	74.00	-17.24
5354.880	Average	44.35	2.21	46.56	54.00	-7.44
5354.880	Peak	55.90	2.21	58.12	74.00	-15.88

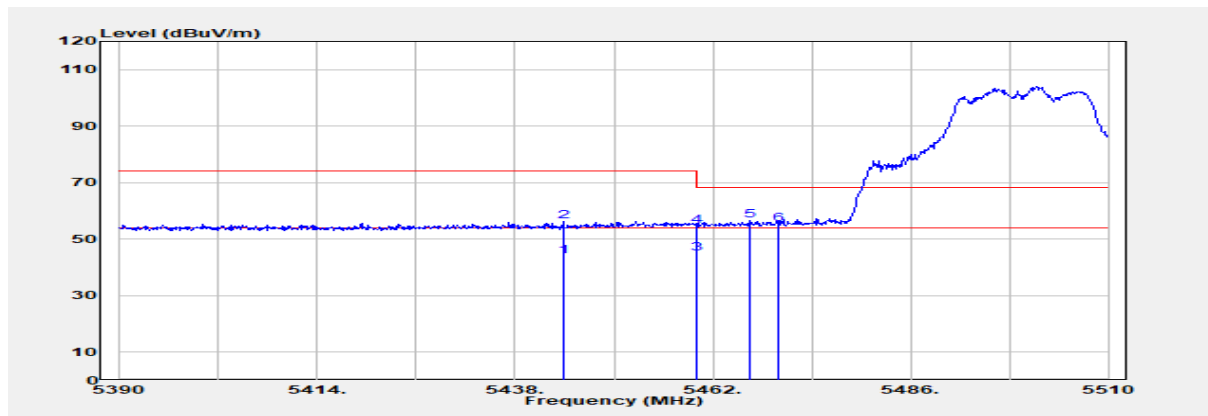
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5443.880	Average	41.46	2.42	43.89	54.00	-10.11
5443.880	Peak	53.87	2.42	56.29	74.00	-17.71
5460.000	Average	42.08	2.64	44.72	54.00	-9.28
5460.000	Peak	52.06	2.64	54.70	74.00	-19.30
5466.440	Peak	53.79	2.72	56.51	68.20	-11.69
5470.000	Peak	52.36	2.77	55.13	68.20	-13.07

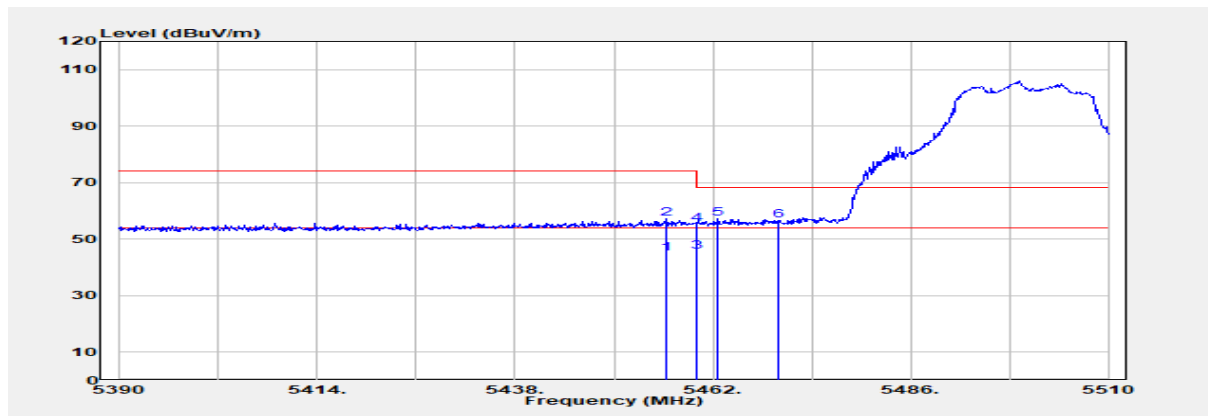
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Report Number :E2/2021/A0069  
Operation Mode :802.11a / Band 3  
Test Frequency :5500 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2021-10-15  
Temp./Humi. :23.8/64  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5456.240	Average	42.24	2.63	44.87	54.00	-9.13
5456.240	Peak	54.60	2.63	57.23	74.00	-16.77
5460.000	Average	42.83	2.64	45.47	54.00	-8.53
5460.000	Peak	52.48	2.64	55.12	74.00	-18.88
5462.600	Peak	54.53	2.67	57.20	68.20	-11.00
5470.000	Peak	53.79	2.77	56.56	68.20	-11.64

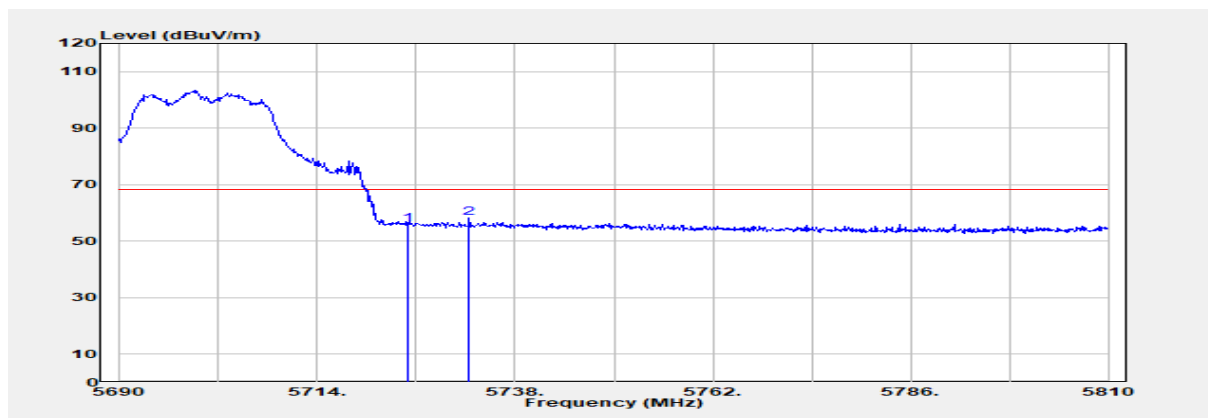
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	51.62	4.21	55.83	68.20	-12.37
5732.360	Peak	54.04	4.27	58.32	68.20	-9.88

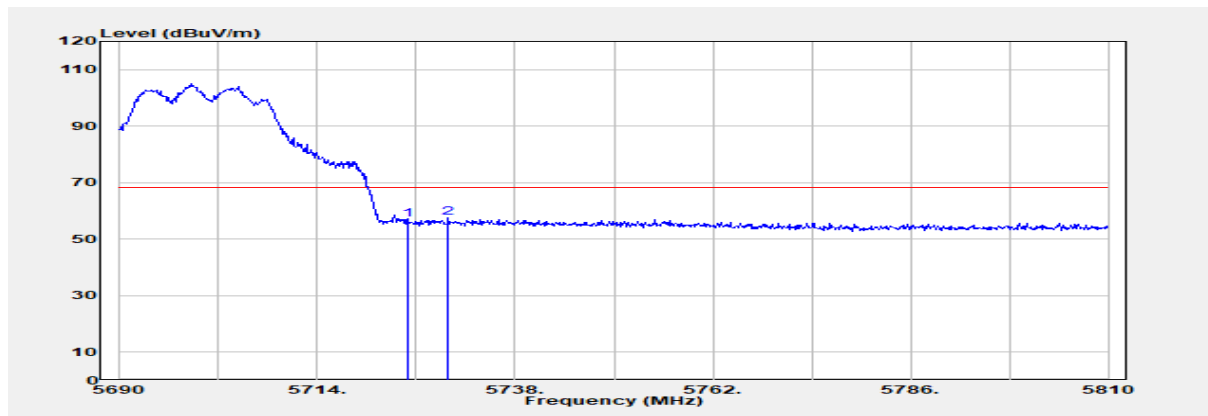
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	52.79	4.21	57.00	68.20	-11.20
5729.840	Peak	53.34	4.25	57.59	68.20	-10.61

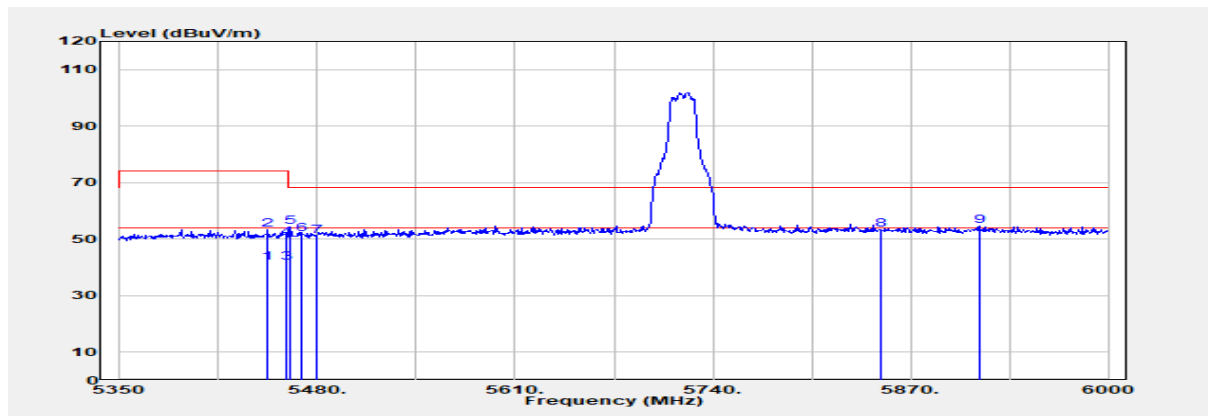
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 3/4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5447.500	Average	39.03	2.53	41.56	54.00	-12.44
5447.500	Peak	50.68	2.53	53.20	74.00	-20.80
5460.000	Average	39.01	2.64	41.65	54.00	-12.35
5460.000	Peak	47.84	2.64	50.48	74.00	-23.52
5462.450	Peak	51.67	2.67	54.34	68.20	-13.86
5470.000	Peak	48.85	2.77	51.62	68.20	-16.58
5480.000	Peak	48.24	2.76	51.00	68.20	-17.20
5850.000	Peak	48.93	4.31	53.24	68.20	-14.96
5915.500	Peak	50.20	4.38	54.59	68.20	-13.61

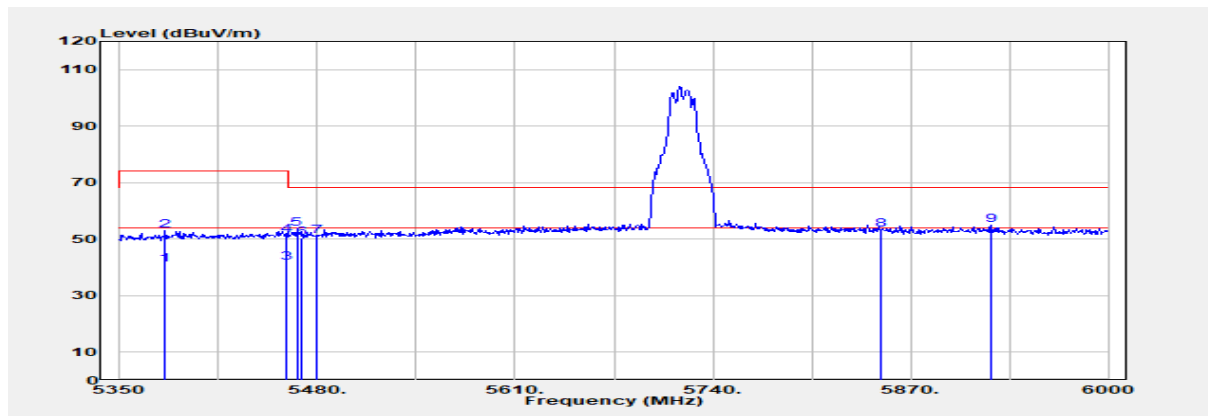
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 3/4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5379.900	Average	38.72	2.34	41.06	54.00	-12.94
5379.900	Peak	50.60	2.34	52.94	74.00	-21.06
5460.000	Average	39.05	2.64	41.69	54.00	-12.31
5460.000	Peak	48.60	2.64	51.24	74.00	-22.76
5466.350	Peak	50.79	2.72	53.51	68.20	-14.69
5470.000	Peak	47.64	2.77	50.41	68.20	-17.79
5480.000	Peak	48.30	2.76	51.06	68.20	-17.14
5850.000	Peak	49.16	4.31	53.47	68.20	-14.73
5923.300	Peak	50.75	4.36	55.11	68.20	-13.09

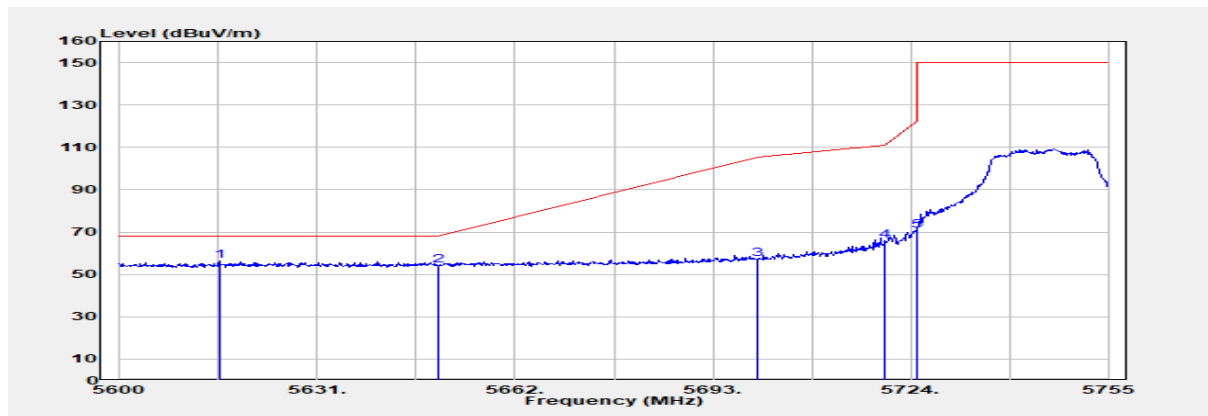
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5615.655	Peak	52.80	3.40	56.21	68.20	-11.99
5650.000	Peak	50.54	3.60	54.14	68.20	-14.06
5700.000	Peak	53.98	3.31	57.29	105.20	-47.91
5720.000	Peak	61.53	4.17	65.70	110.80	-45.10
5725.000	Peak	66.60	4.21	70.81	122.20	-51.39

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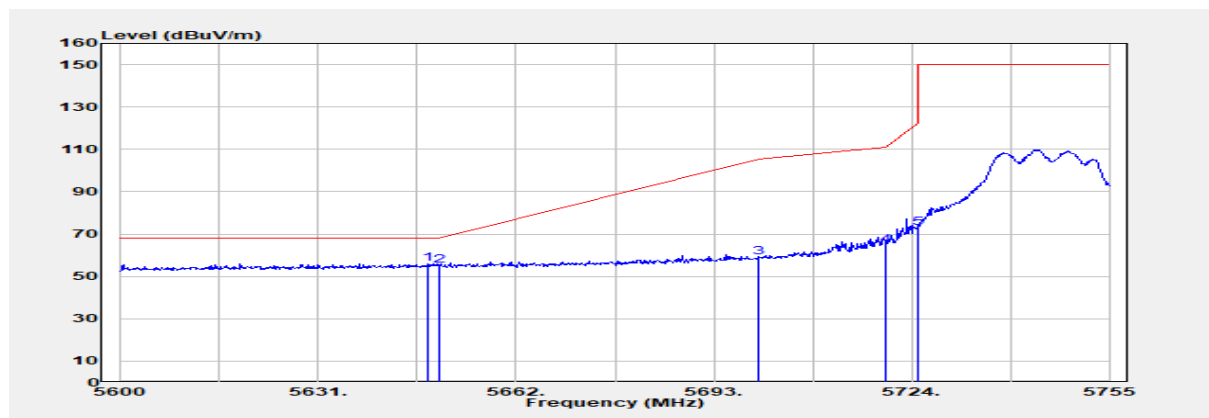
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.205	Peak	52.46	3.57	56.02	68.20	-12.18
5650.000	Peak	51.51	3.60	55.11	68.20	-13.09
5700.000	Peak	55.71	3.31	59.02	105.20	-46.18
5720.000	Peak	60.52	4.17	64.69	110.80	-46.11
5725.000	Peak	68.76	4.21	72.97	122.20	-49.23

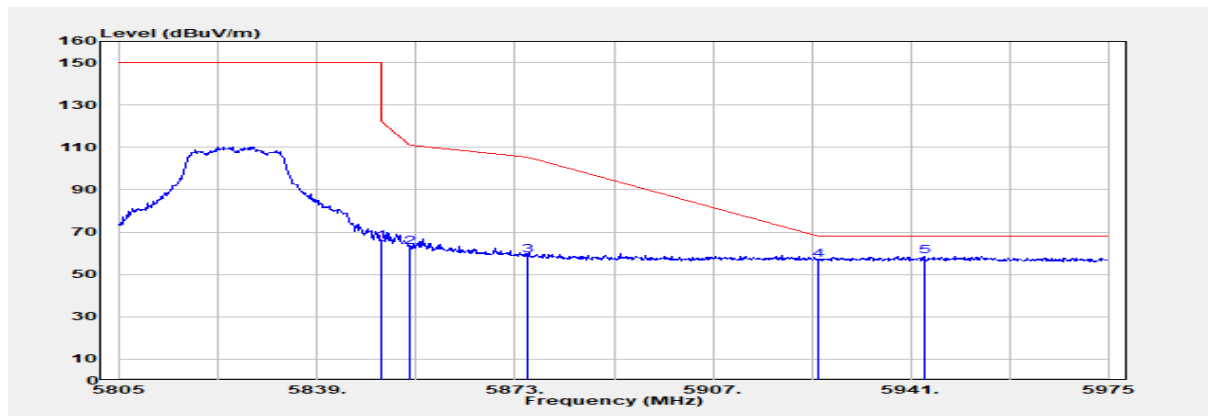
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	61.27	4.31	65.58	122.20	-56.62
5855.000	Peak	58.70	4.21	62.91	110.80	-47.89
5875.000	Peak	54.86	3.90	58.76	105.20	-46.44
5925.000	Peak	52.60	4.36	56.96	68.20	-11.24
5943.380	Peak	54.54	4.10	58.64	68.20	-9.56

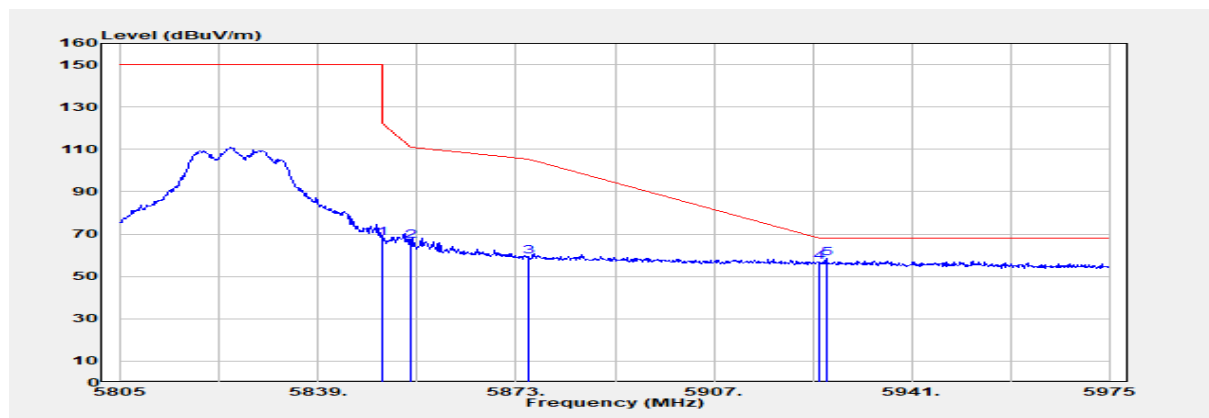
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Report Number :E2/2021/A0069  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	63.62	4.31	67.93	122.20	-54.27
5855.000	Peak	62.36	4.21	66.57	110.80	-44.23
5875.000	Peak	55.46	3.90	59.36	105.20	-45.84
5925.000	Peak	52.61	4.36	56.96	68.20	-11.24
5926.380	Peak	54.02	4.35	58.37	68.20	-9.83

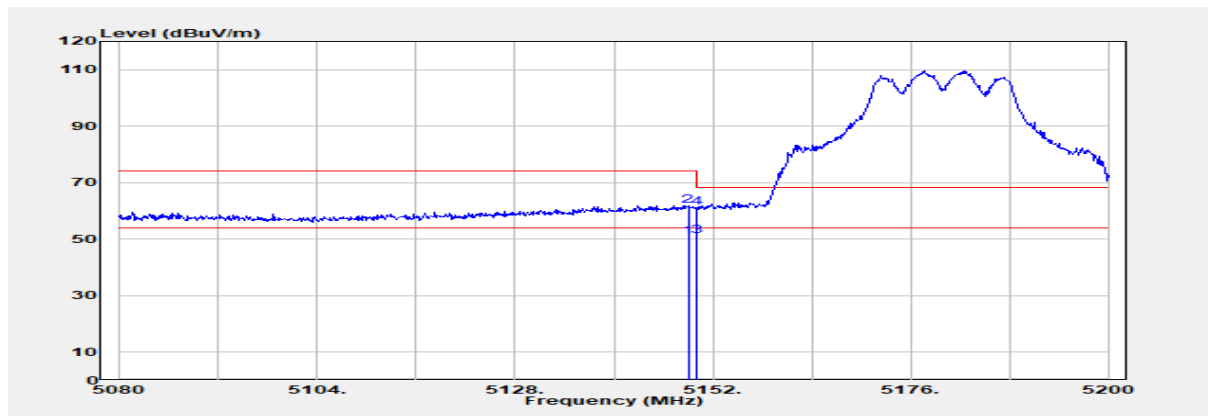
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.000	Average	47.74	3.01	50.75	54.00	-3.25
5149.000	Peak	58.87	3.01	61.88	74.00	-12.12
5150.000	Average	47.98	3.03	51.01	54.00	-2.99
5150.000	Peak	58.00	3.03	61.03	74.00	-12.97

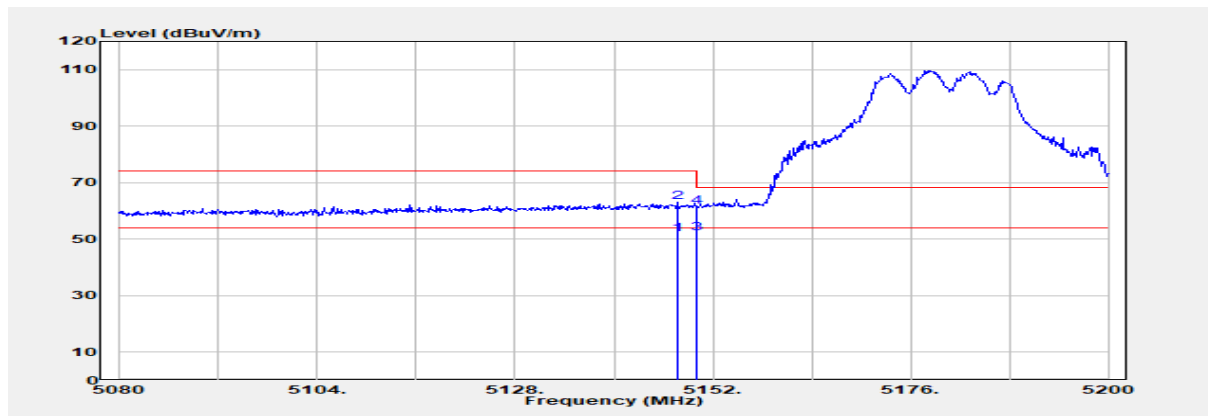
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.680	Average	48.77	2.97	51.74	54.00	-2.26
5147.680	Peak	60.25	2.97	63.23	74.00	-10.77
5150.000	Average	49.01	3.03	52.04	54.00	-1.96
5150.000	Peak	58.30	3.03	61.33	74.00	-12.67

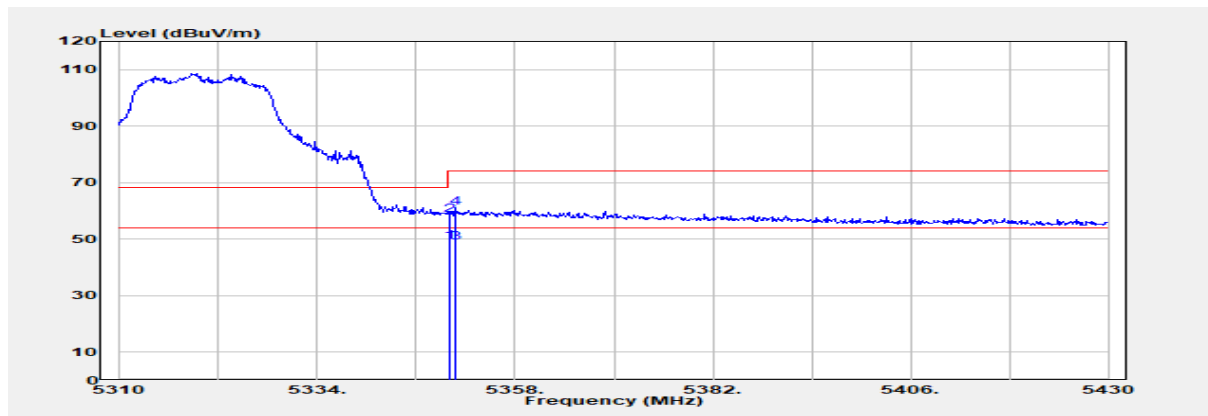
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	46.77	2.21	48.98	54.00	-5.02
5350.000	Peak	56.42	2.21	58.63	74.00	-15.37
5350.800	Average	46.64	2.21	48.85	54.00	-5.15
5350.800	Peak	59.01	2.21	61.22	74.00	-12.78

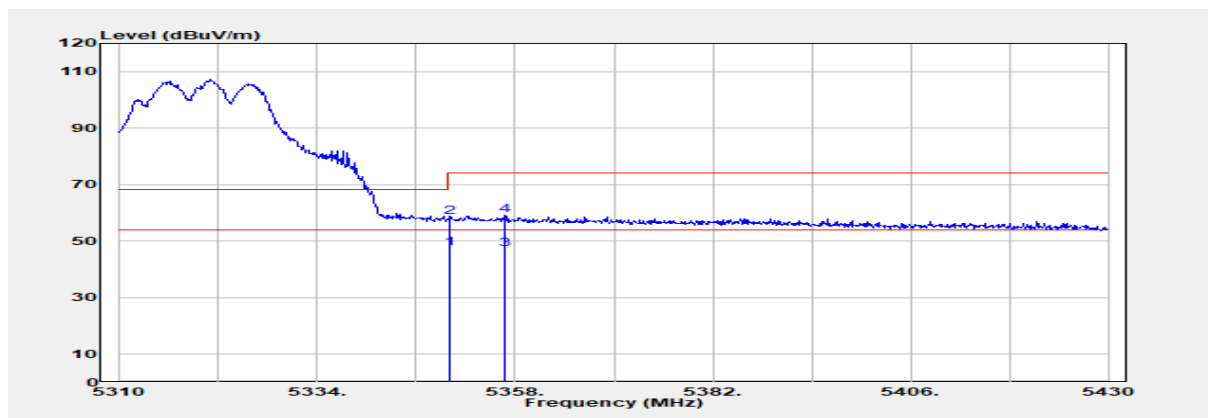
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	45.39	2.21	47.60	54.00	-6.40
5350.000	Peak	56.34	2.21	58.55	74.00	-15.45
5356.680	Average	45.00	2.22	47.22	54.00	-6.78
5356.680	Peak	57.01	2.22	59.22	74.00	-14.78

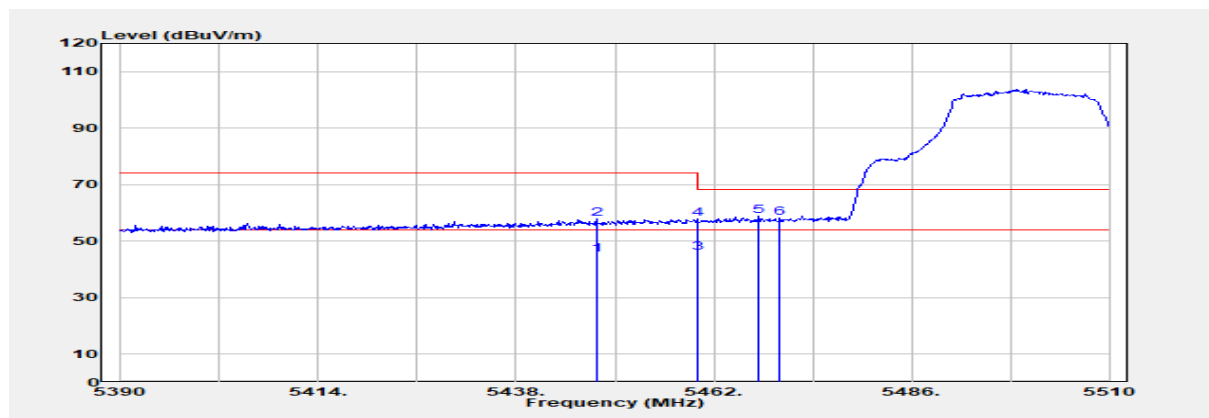
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5447.720	Average	42.80	2.53	45.33	54.00	-8.67
5447.720	Peak	55.23	2.53	57.76	74.00	-16.24
5460.000	Average	43.16	2.64	45.80	54.00	-8.20
5460.000	Peak	55.09	2.64	57.73	74.00	-16.27
5467.520	Peak	56.19	2.74	58.93	68.20	-9.27
5470.000	Peak	55.31	2.77	58.08	68.20	-10.12

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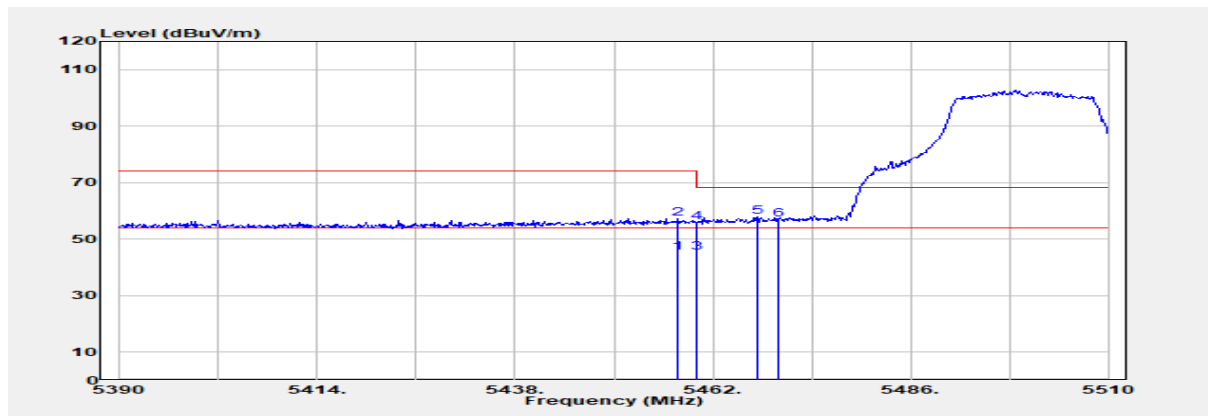
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.800	Average	42.58	2.63	45.22	54.00	-8.78
5457.800	Peak	54.68	2.63	57.31	74.00	-16.69
5460.000	Average	42.64	2.64	45.28	54.00	-8.72
5460.000	Peak	53.23	2.64	55.87	74.00	-18.13
5467.400	Peak	55.19	2.74	57.93	68.20	-10.27
5470.000	Peak	54.04	2.77	56.81	68.20	-11.39

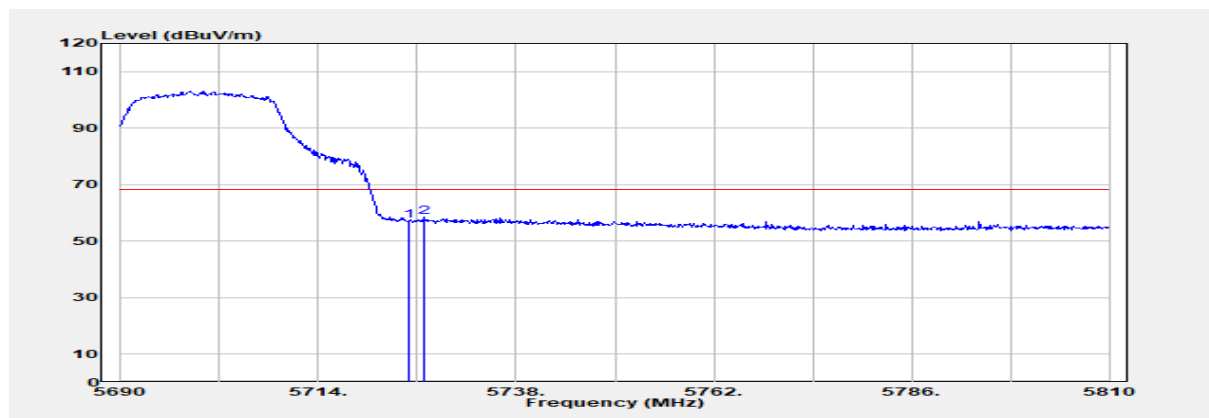
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.000	Peak	53.09	4.21	57.30	68.20	-10.90
5726.720	Peak	54.19	4.22	58.41	68.20	-9.79

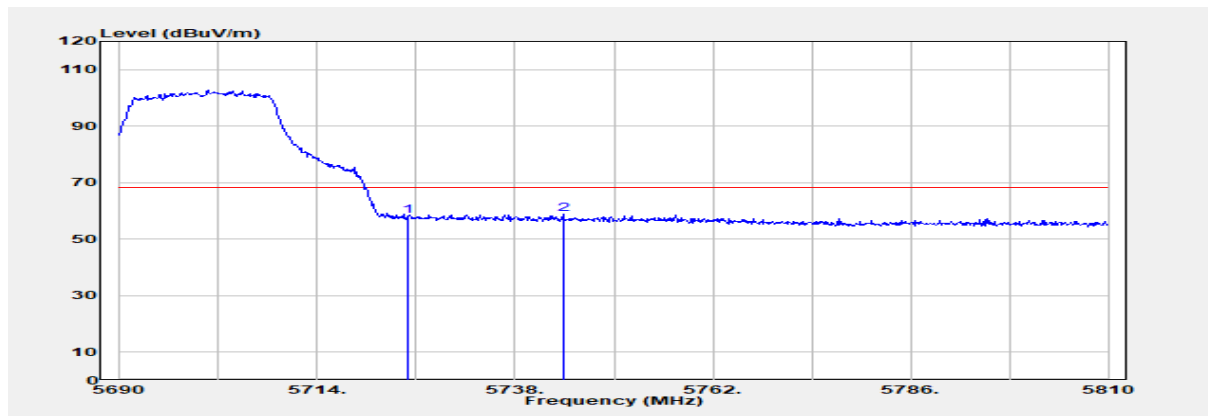
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	53.90	4.21	58.11	68.20	-10.09
5743.880	Peak	54.56	4.36	58.92	68.20	-9.28

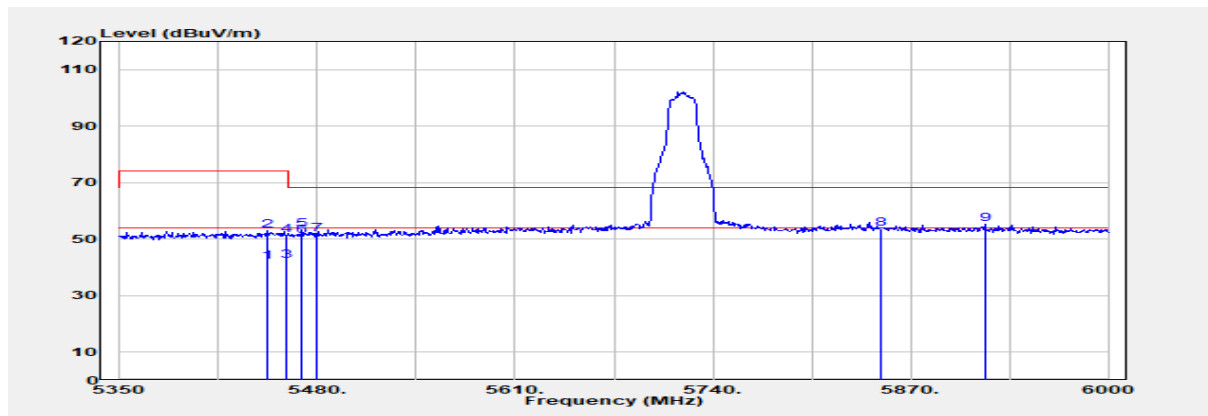
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 3/4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.850	Average	39.41	2.51	41.92	54.00	-12.08
5446.850	Peak	50.35	2.51	52.86	74.00	-21.14
5460.000	Average	39.64	2.64	42.28	54.00	-11.72
5460.000	Peak	48.59	2.64	51.23	74.00	-22.77
5469.600	Peak	50.41	2.76	53.18	68.20	-15.02
5470.000	Peak	48.36	2.77	51.13	68.20	-17.07
5480.000	Peak	49.05	2.76	51.81	68.20	-16.39
5850.000	Peak	49.46	4.31	53.77	68.20	-14.43
5918.750	Peak	50.90	4.37	55.27	68.20	-12.93

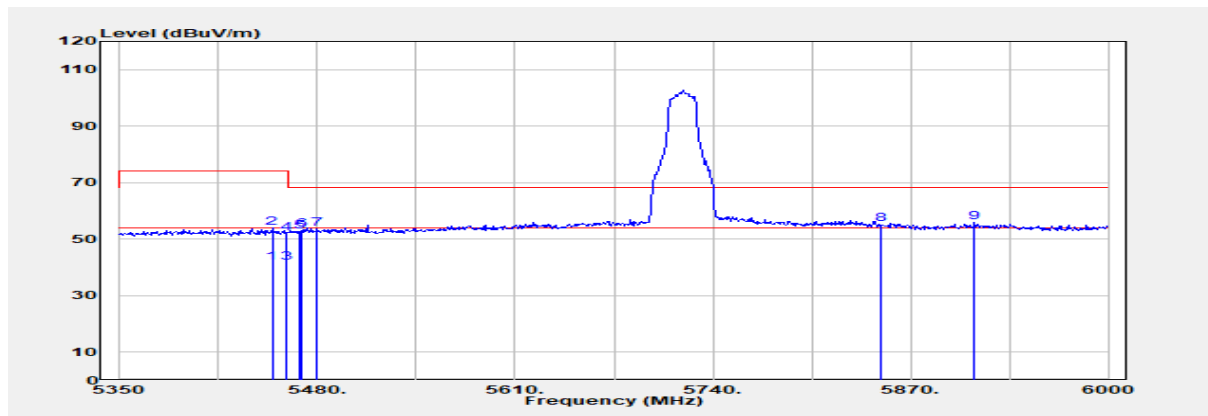
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 3/4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5450.100	Average	39.13	2.60	41.74	54.00	-12.26
5450.100	Peak	51.23	2.60	53.83	74.00	-20.17
5460.000	Average	38.99	2.64	41.63	54.00	-12.37
5460.000	Peak	49.52	2.64	52.16	74.00	-21.84
5468.300	Peak	50.02	2.75	52.77	68.20	-15.43
5470.000	Peak	50.44	2.77	53.21	68.20	-14.99
5480.000	Peak	50.77	2.76	53.53	68.20	-14.67
5850.000	Peak	50.92	4.31	55.23	68.20	-12.97
5912.250	Peak	51.49	4.39	55.88	68.20	-12.32

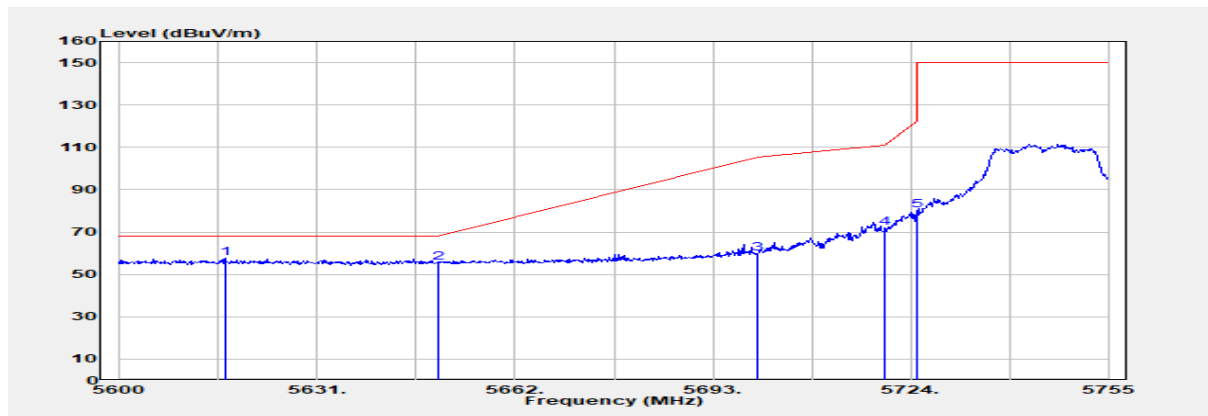
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5616.430	Peak	54.20	3.41	57.61	68.20	-10.59
5650.000	Peak	51.73	3.60	55.33	68.20	-12.87
5700.000	Peak	56.33	3.31	59.64	105.20	-45.56
5720.000	Peak	67.66	4.17	71.83	110.80	-38.97
5725.000	Peak	76.06	4.21	80.27	122.20	-41.93

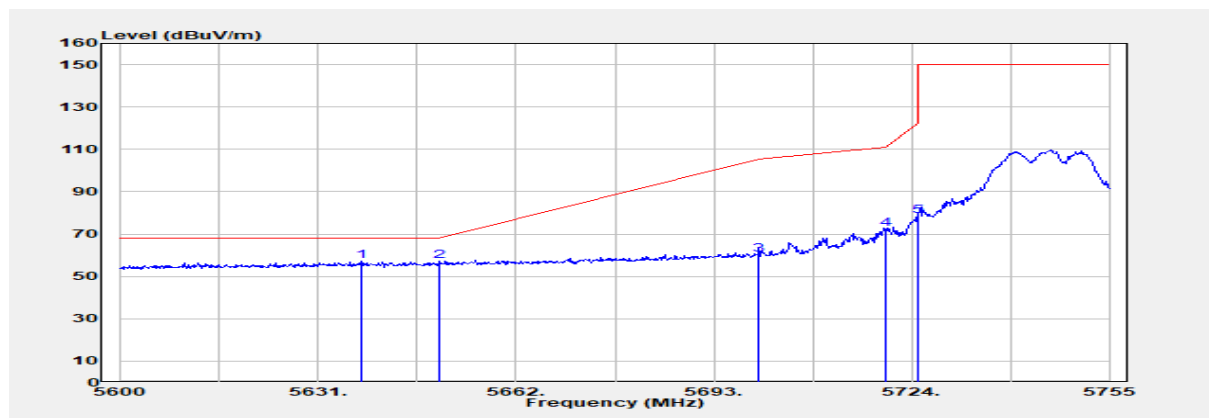
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5637.820	Peak	53.64	3.43	57.06	68.20	-11.14
5650.000	Peak	53.46	3.60	57.06	68.20	-11.14
5700.000	Peak	57.01	3.31	60.32	105.20	-44.88
5720.000	Peak	68.12	4.17	72.29	110.80	-38.51
5725.000	Peak	74.09	4.21	78.30	122.20	-43.90

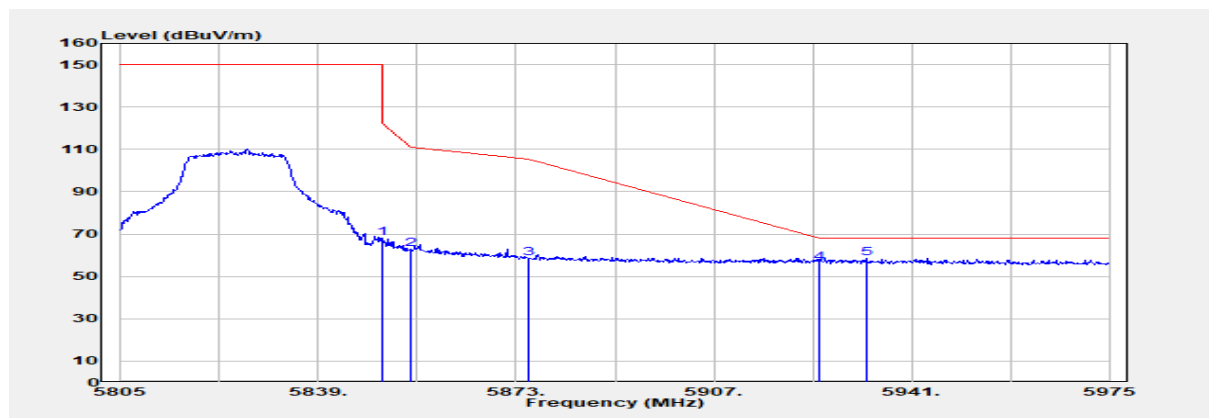
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	63.87	4.31	68.18	122.20	-54.02
5855.000	Peak	58.67	4.21	62.88	110.80	-47.92
5875.000	Peak	54.70	3.90	58.60	105.20	-46.60
5925.000	Peak	52.22	4.36	56.57	68.20	-11.63
5933.180	Peak	54.26	4.27	58.53	68.20	-9.67

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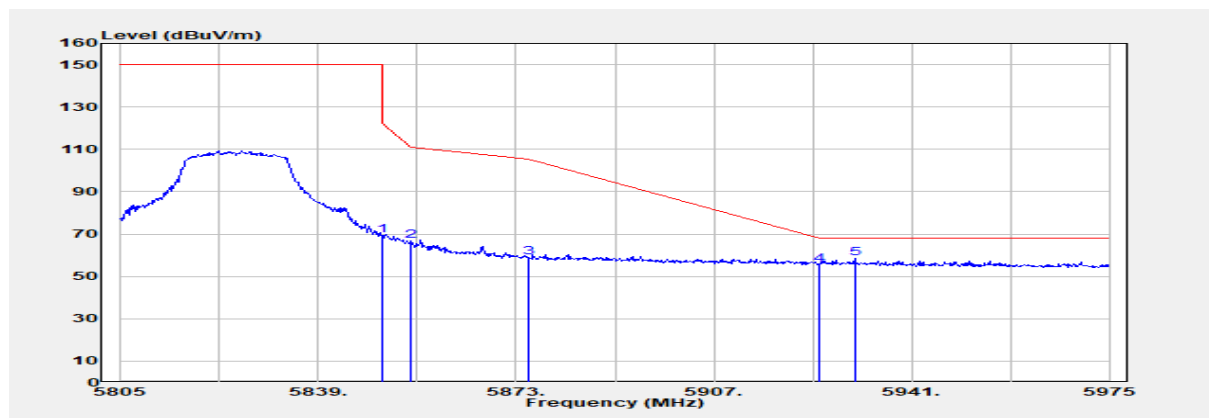
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	65.11	4.31	69.42	122.20	-52.78
5855.000	Peak	62.46	4.21	66.67	110.80	-44.13
5875.000	Peak	55.10	3.90	59.00	105.20	-46.20
5925.000	Peak	51.29	4.36	55.64	68.20	-12.56
5931.310	Peak	54.28	4.31	58.59	68.20	-9.61

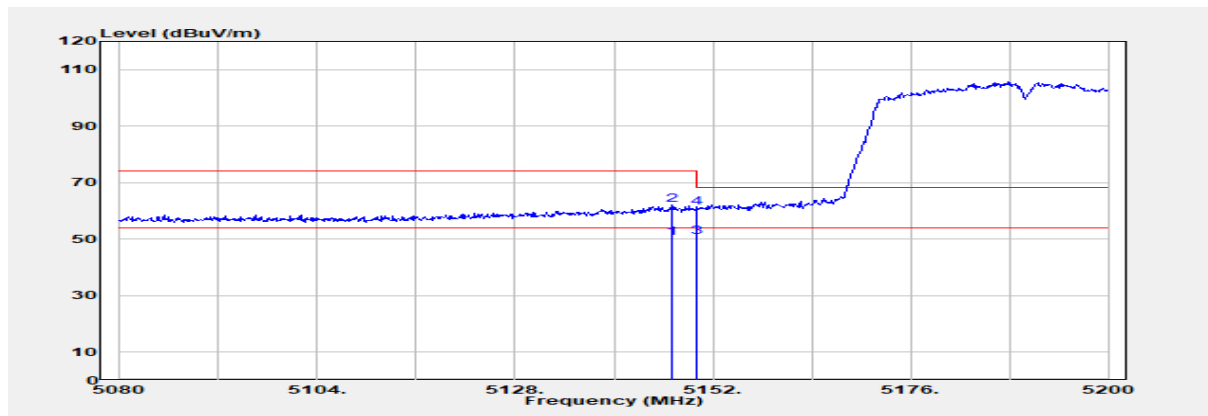
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 1  
 Test Frequency :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.080	Average	47.46	2.96	50.42	54.00	-3.58
5147.080	Peak	59.11	2.96	62.07	74.00	-11.93
5150.000	Average	47.73	3.03	50.76	54.00	-3.24
5150.000	Peak	58.25	3.03	61.28	74.00	-12.72

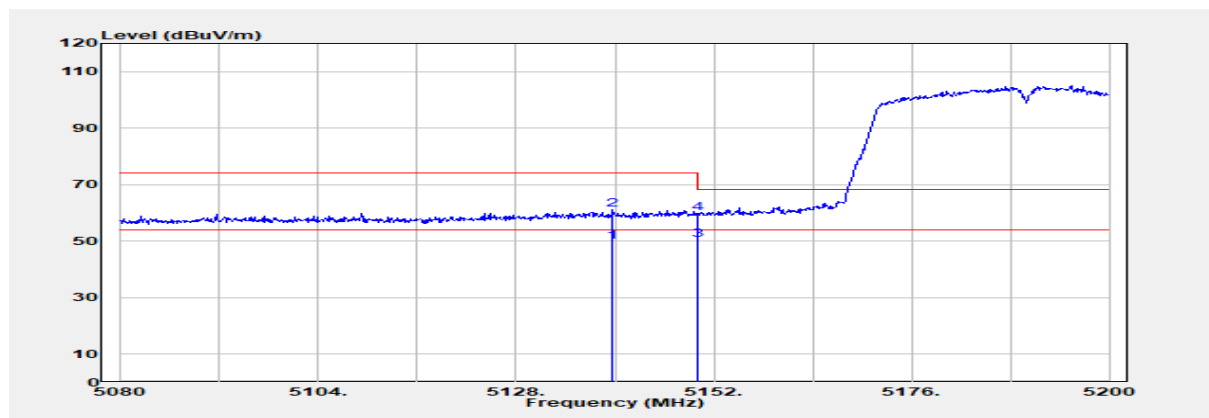
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 1  
 Test Frequency :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5139.760	Average	46.89	2.79	49.67	54.00	-4.33
5139.760	Peak	58.34	2.79	61.13	74.00	-12.87
5150.000	Average	47.29	3.03	50.32	54.00	-3.68
5150.000	Peak	56.68	3.03	59.71	74.00	-14.29

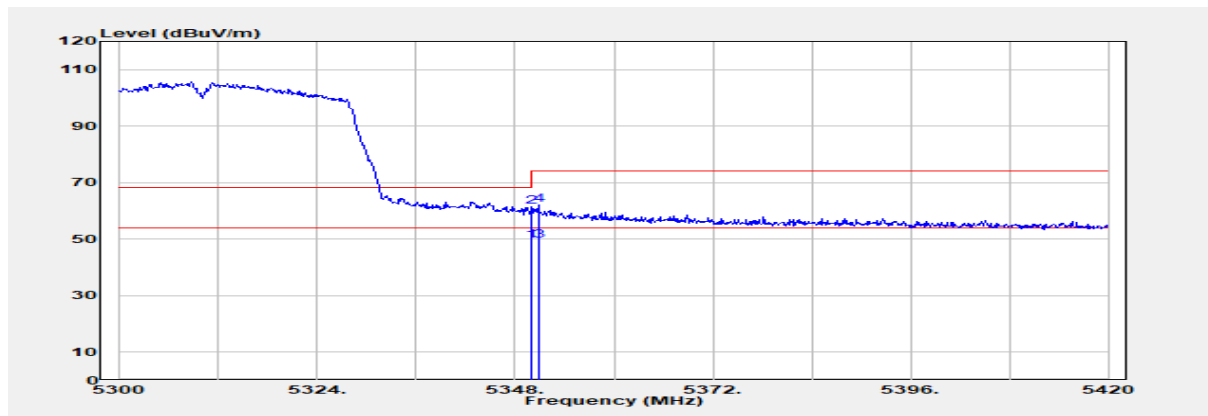
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 2  
 Test Frequency :5310 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	47.27	2.21	49.48	54.00	-4.52
5350.000	Peak	59.35	2.21	61.56	74.00	-12.44
5350.880	Average	47.13	2.21	49.34	54.00	-4.66
5350.880	Peak	59.84	2.21	62.05	74.00	-11.95

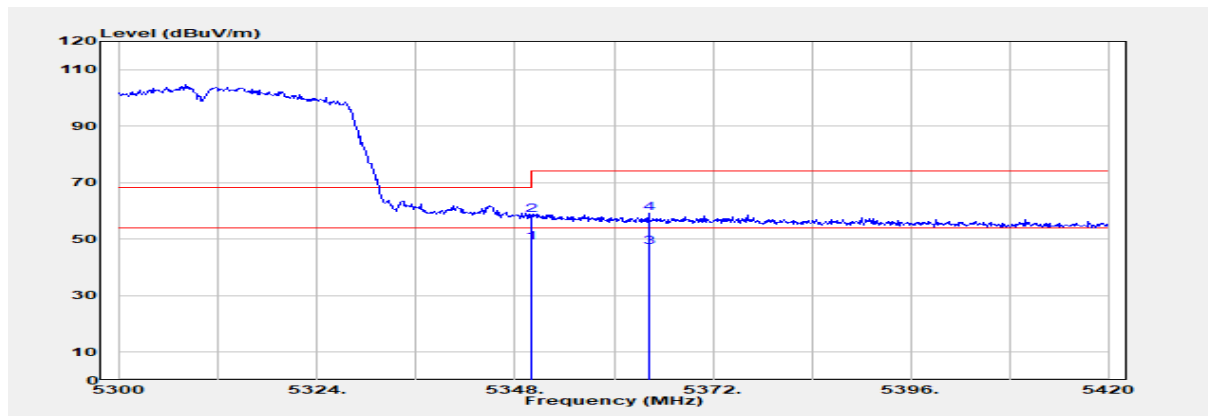
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 2  
 Test Frequency :5310 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.000	Average	46.56	2.21	48.77	54.00	-5.23
5350.000	Peak	56.21	2.21	58.42	74.00	-15.58
5364.200	Average	44.98	2.26	47.24	54.00	-6.76
5364.200	Peak	56.86	2.26	59.12	74.00	-14.88

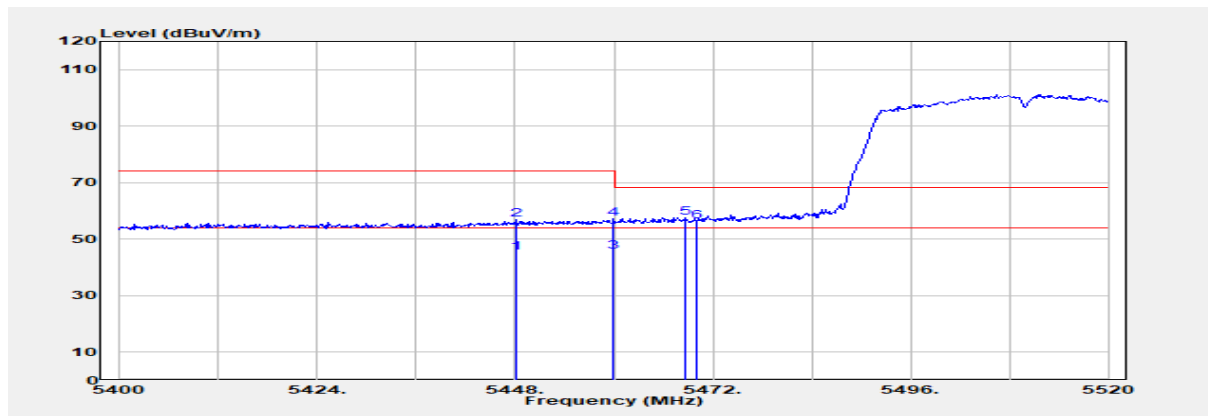
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5510 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5448.120	Average	42.71	2.55	45.25	54.00	-8.75
5448.120	Peak	54.38	2.55	56.92	74.00	-17.08
5460.000	Average	43.01	2.64	45.65	54.00	-8.35
5460.000	Peak	54.71	2.64	57.35	74.00	-16.65
5468.760	Peak	54.91	2.75	57.67	68.20	-10.53
5470.000	Peak	53.64	2.77	56.41	68.20	-11.79

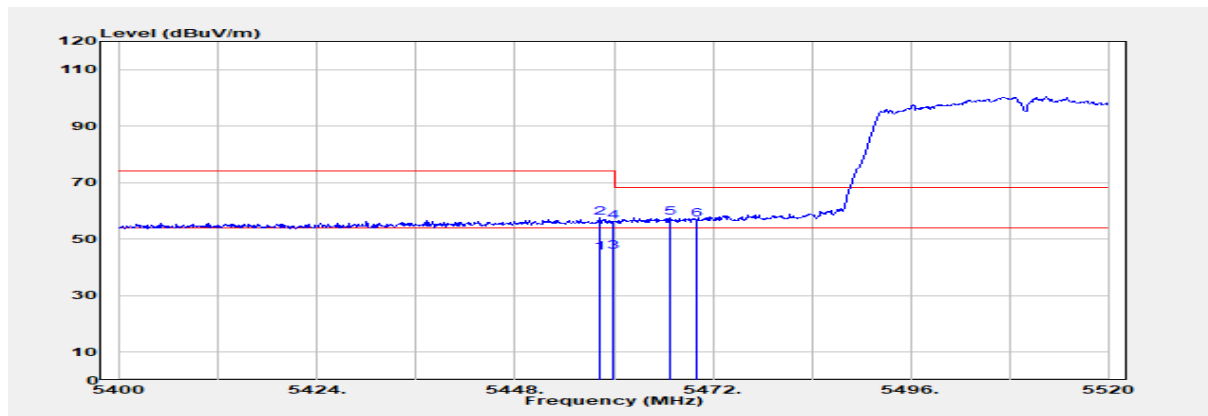
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5510 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.200	Average	42.68	2.63	45.31	54.00	-8.69
5458.200	Peak	54.92	2.63	57.56	74.00	-16.44
5460.000	Average	43.03	2.64	45.67	54.00	-8.33
5460.000	Peak	53.51	2.64	56.15	74.00	-17.85
5466.720	Peak	54.87	2.73	57.60	68.20	-10.60
5470.000	Peak	54.07	2.77	56.84	68.20	-11.36

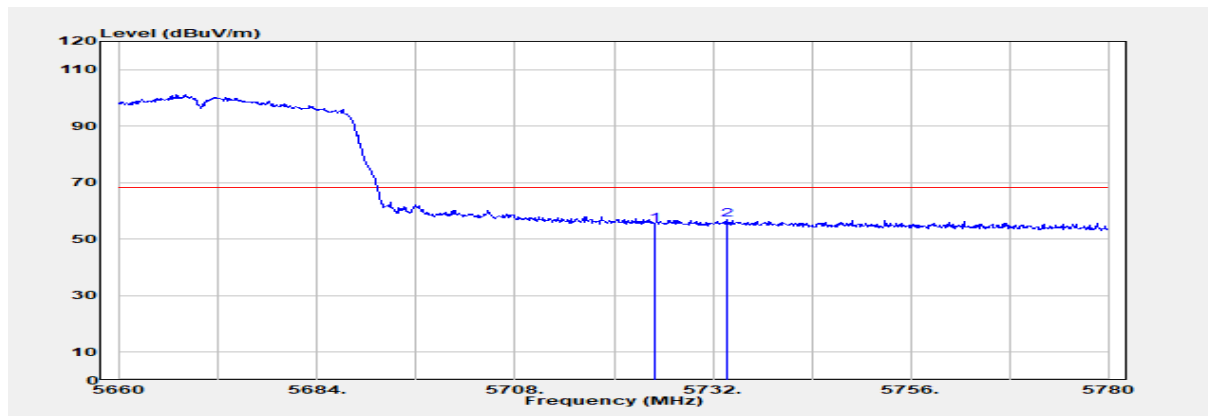
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5670 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	51.13	4.21	55.34	68.20	-12.86
5733.680	Peak	52.52	4.28	56.80	68.20	-11.40

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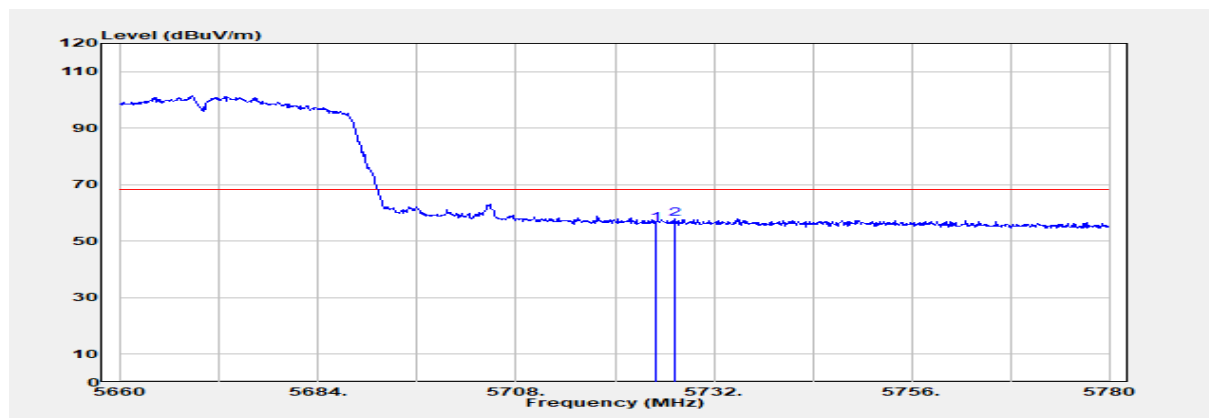
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5670 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	52.14	4.21	56.35	68.20	-11.85
5727.320	Peak	53.80	4.23	58.03	68.20	-10.17

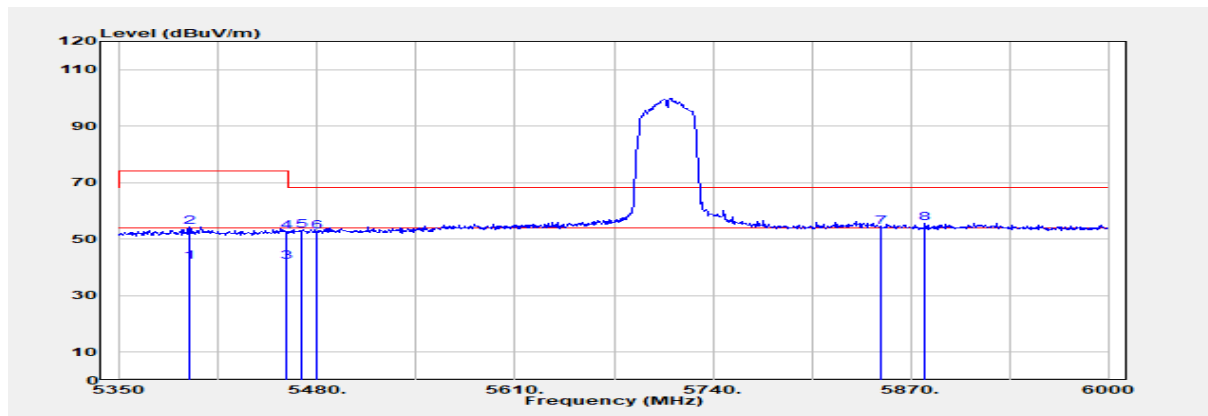
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 3/4  
 Test Frequency :5710 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5396.150	Average	39.40	2.57	41.97	54.00	-12.03
5396.150	Peak	51.83	2.57	54.40	74.00	-19.60
5460.000	Average	39.40	2.64	42.04	54.00	-11.96
5460.000	Peak	50.01	2.64	52.65	74.00	-21.35
5470.000	Peak	50.26	2.77	53.03	68.20	-15.17
5480.000	Peak	50.07	2.76	52.83	68.20	-15.37
5850.000	Peak	49.89	4.31	54.20	68.20	-14.00
5879.750	Peak	51.90	3.84	55.74	68.20	-12.46

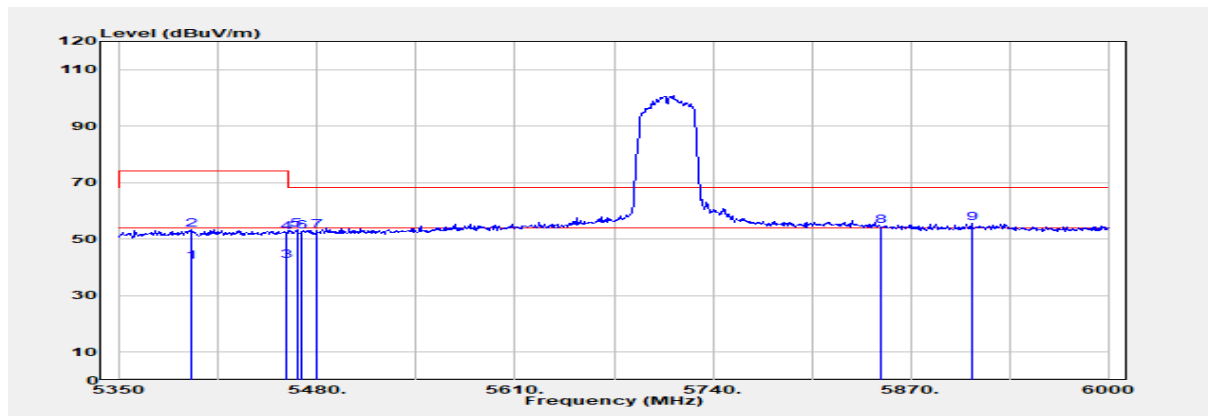
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 3/4  
 Test Frequency :5710 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-14  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5396.800	Average	39.36	2.57	41.93	54.00	-12.07
5396.800	Peak	50.71	2.57	53.27	74.00	-20.73
5460.000	Average	39.55	2.64	42.19	54.00	-11.81
5460.000	Peak	49.70	2.64	52.34	74.00	-21.66
5466.350	Peak	50.53	2.72	53.25	68.20	-14.95
5470.000	Peak	49.82	2.77	52.59	68.20	-15.61
5480.000	Peak	50.37	2.76	53.13	68.20	-15.07
5850.000	Peak	50.23	4.31	54.54	68.20	-13.66
5910.300	Peak	51.23	4.40	55.63	68.20	-12.57

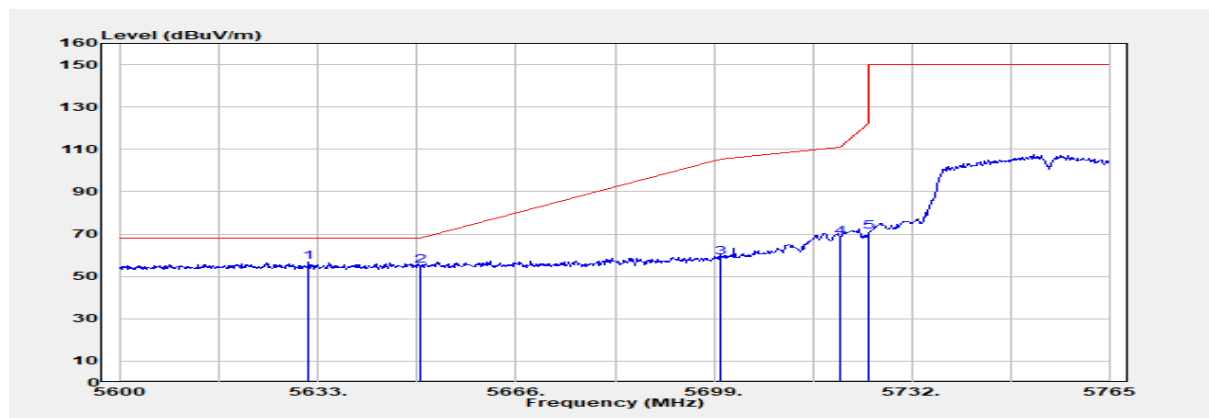
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 4  
 Test Frequency :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5631.350	Peak	53.41	3.48	56.89	68.20	-11.31
5650.000	Peak	51.40	3.60	55.00	68.20	-13.20
5700.000	Peak	55.48	3.31	58.79	105.20	-46.41
5720.000	Peak	64.34	4.17	68.51	110.80	-42.29
5725.000	Peak	66.82	4.21	71.03	122.20	-51.17

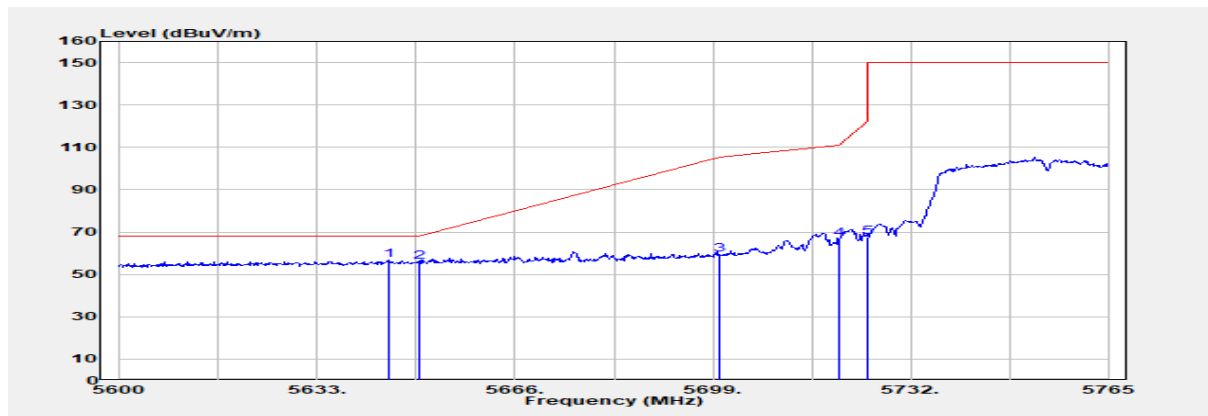
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 4  
 Test Frequency :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5644.880	Peak	53.27	3.50	56.77	68.20	-11.43
5650.000	Peak	52.16	3.60	55.76	68.20	-12.44
5700.000	Peak	56.08	3.31	59.39	105.20	-45.81
5720.000	Peak	62.78	4.17	66.95	110.80	-43.85
5725.000	Peak	63.43	4.21	67.64	122.20	-54.56

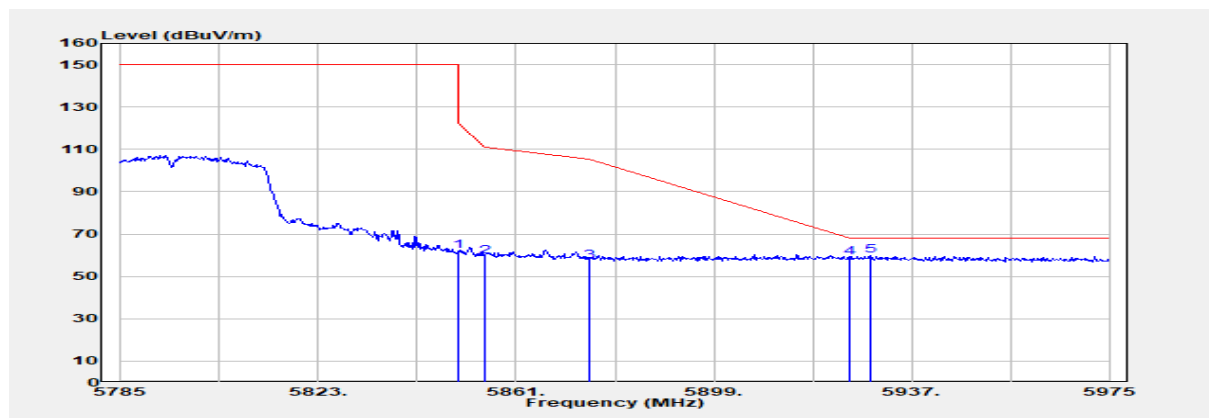
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 4  
 Test Frequency :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	57.60	4.31	61.91	122.20	-60.29
5855.000	Peak	55.24	4.21	59.45	110.80	-51.35
5875.000	Peak	53.53	3.90	57.43	105.20	-47.77
5925.000	Peak	54.52	4.36	58.88	68.20	-9.32
5929.020	Peak	55.43	4.34	59.77	68.20	-8.43

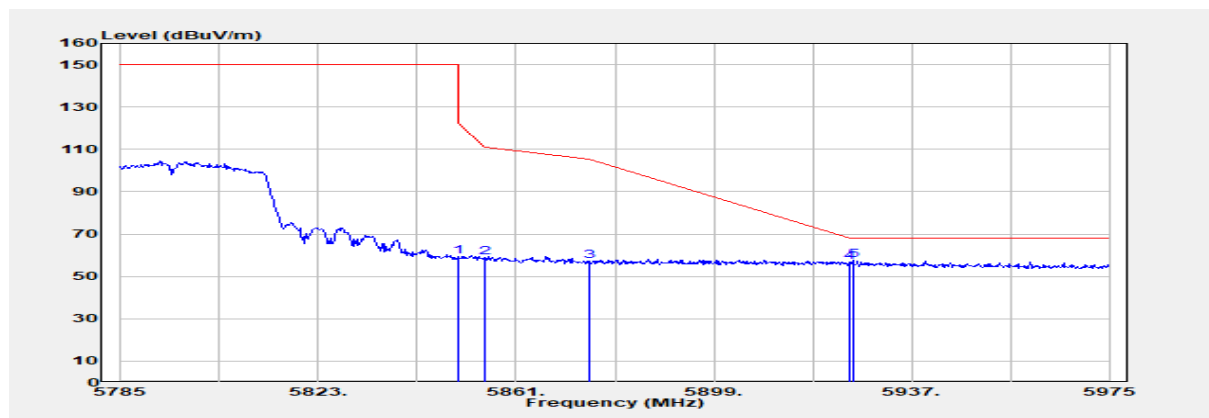
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Report Number :E2/2021/A0069  
 Operation Mode :802.11n40 / Band 4  
 Test Frequency :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	55.12	4.31	59.43	122.20	-62.77
5855.000	Peak	54.87	4.21	59.08	110.80	-51.72
5875.000	Peak	53.18	3.90	57.08	105.20	-48.12
5925.000	Peak	52.57	4.36	56.92	68.20	-11.28
5925.790	Peak	53.12	4.35	57.48	68.20	-10.72

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-26

Test Frequency :5210 MHz

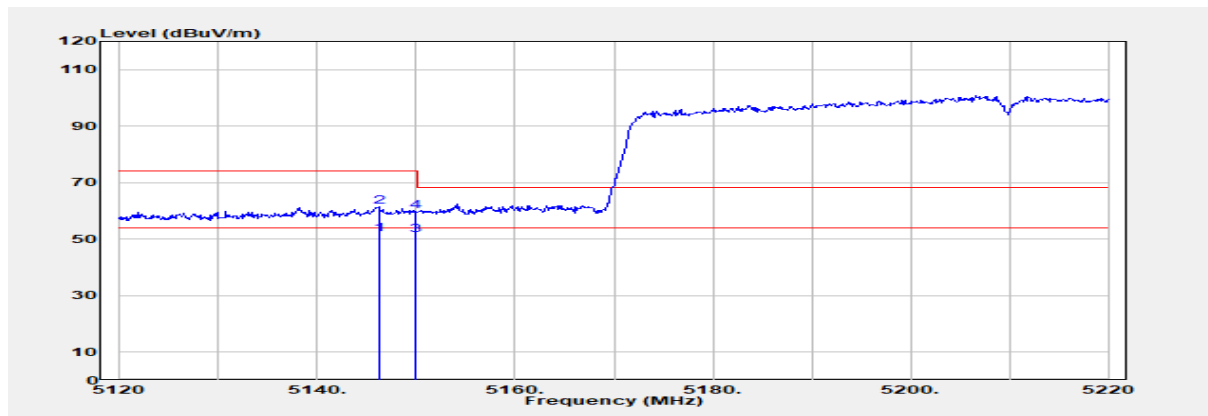
Temp./Humi. :24.5/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.200	Average	48.86	2.94	51.80	54.00	-2.20
5146.200	Peak	58.44	2.94	61.38	74.00	-12.62
5150.000	Average	48.41	3.03	51.44	54.00	-2.56
5150.000	Peak	56.81	3.03	59.84	74.00	-14.16

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-26

Test Frequency :5210 MHz

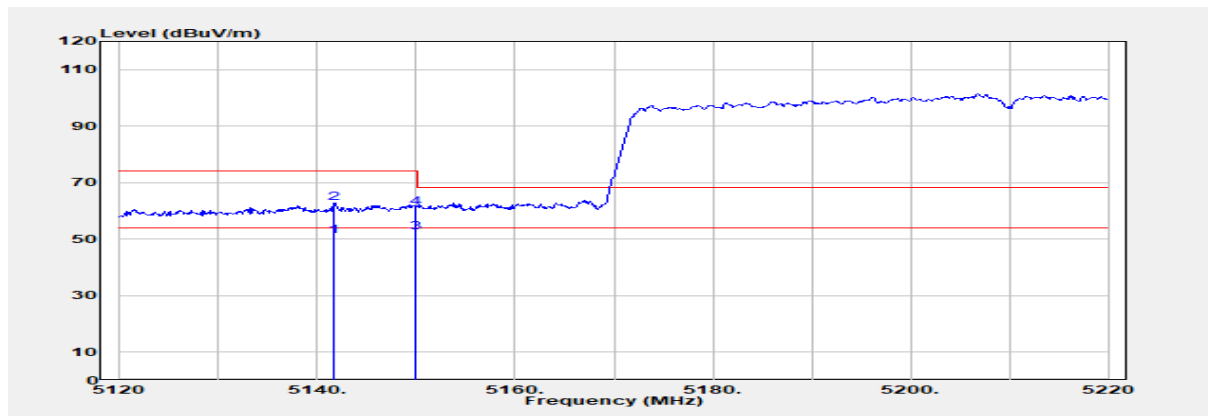
Temp./Humi. :24.5/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5141.700	Average	48.19	2.83	51.02	54.00	-2.98
5141.700	Peak	60.01	2.83	62.84	74.00	-11.16
5150.000	Average	49.41	3.03	52.44	54.00	-1.56
5150.000	Peak	58.11	3.03	61.14	74.00	-12.86

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 2

Test Date :2021-10-26

Test Frequency :5290 MHz

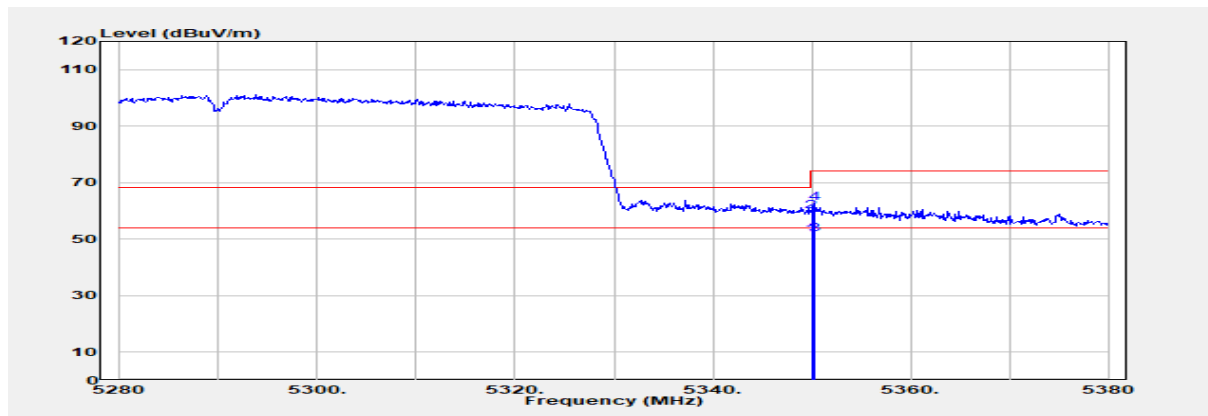
Temp./Humi. :24.5/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	49.16	2.21	51.37	54.00	-2.63
5350.000	Peak	57.51	2.21	59.72	74.00	-14.28
5350.200	Average	49.57	2.21	51.78	54.00	-2.22
5350.200	Peak	60.70	2.21	62.91	74.00	-11.09

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 2

Test Date :2021-10-26

Test Frequency :5290 MHz

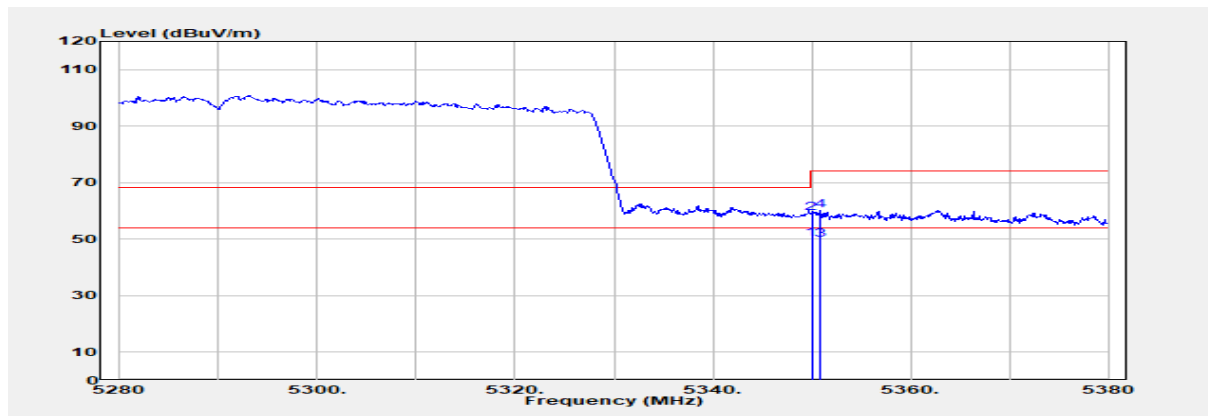
Temp./Humi. :24.5/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	47.75	2.21	49.96	54.00	-4.04
5350.000	Peak	56.99	2.21	59.20	74.00	-14.80
5350.800	Average	47.65	2.21	49.86	54.00	-4.14
5350.800	Peak	57.97	2.21	60.18	74.00	-13.82

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-14

Test Frequency :5530 MHz

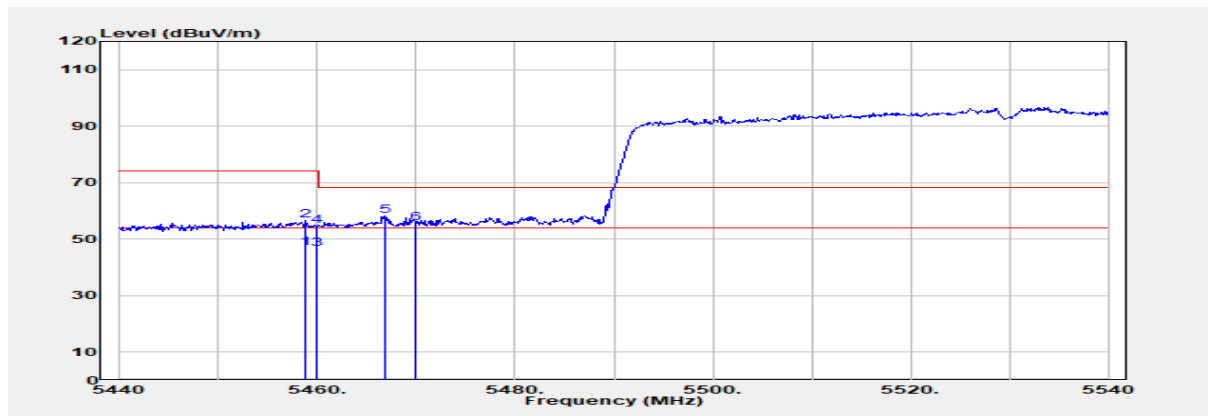
Temp./Humi. :24.2/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.800	Average	44.09	2.64	46.72	54.00	-7.28
5458.800	Peak	53.95	2.64	56.59	74.00	-17.41
5460.000	Average	43.85	2.64	46.49	54.00	-7.51
5460.000	Peak	52.14	2.64	54.78	74.00	-19.22
5466.800	Peak	55.55	2.73	58.28	68.20	-9.92
5470.000	Peak	52.68	2.77	55.45	68.20	-12.75

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-14

Test Frequency :5530 MHz

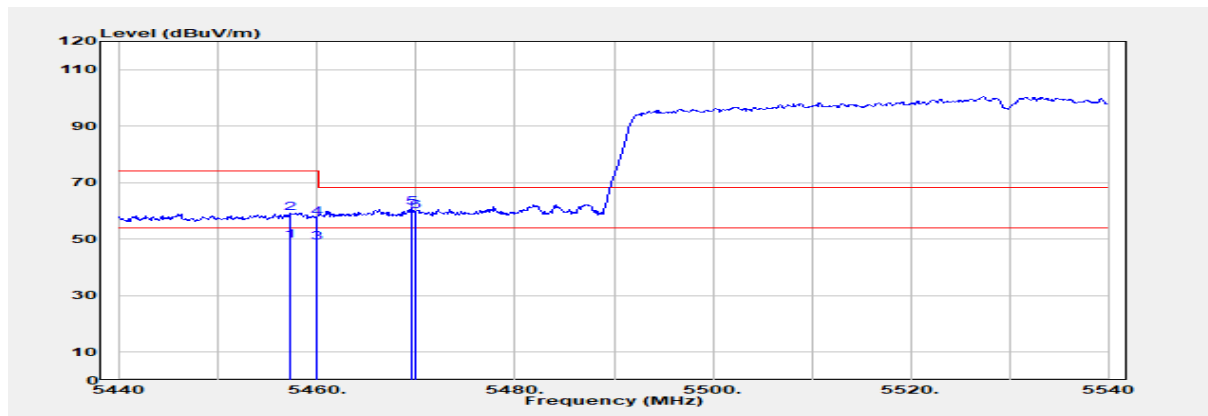
Temp./Humi. :24.2/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.200	Average	46.69	2.63	49.32	54.00	-4.68
5457.200	Peak	56.67	2.63	59.30	74.00	-14.70
5460.000	Average	46.24	2.64	48.88	54.00	-5.12
5460.000	Peak	55.00	2.64	57.64	74.00	-16.36
5469.600	Peak	58.50	2.76	61.27	68.20	-6.93
5470.000	Peak	57.01	2.77	59.78	68.20	-8.42

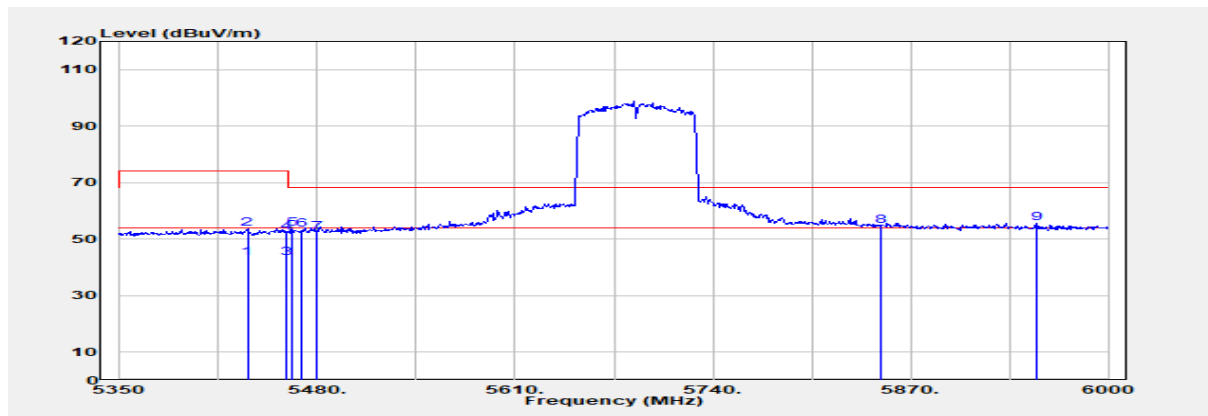
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ac80 / Band 3/4  
 Test Frequency :5690 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-15  
 Temp./Humi. :24.2/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5433.850	Average	40.85	2.37	43.22	54.00	-10.78
5433.850	Peak	51.19	2.37	53.56	74.00	-20.44
5460.000	Average	40.76	2.64	43.40	54.00	-10.60
5460.000	Peak	49.79	2.64	52.43	74.00	-21.57
5463.750	Peak	51.00	2.69	53.69	68.20	-14.51
5470.000	Peak	50.62	2.77	53.39	68.20	-14.81
5480.000	Peak	49.56	2.76	52.32	68.20	-15.88
5850.000	Peak	50.40	4.31	54.71	68.20	-13.49
5953.200	Peak	51.59	3.97	55.56	68.20	-12.64

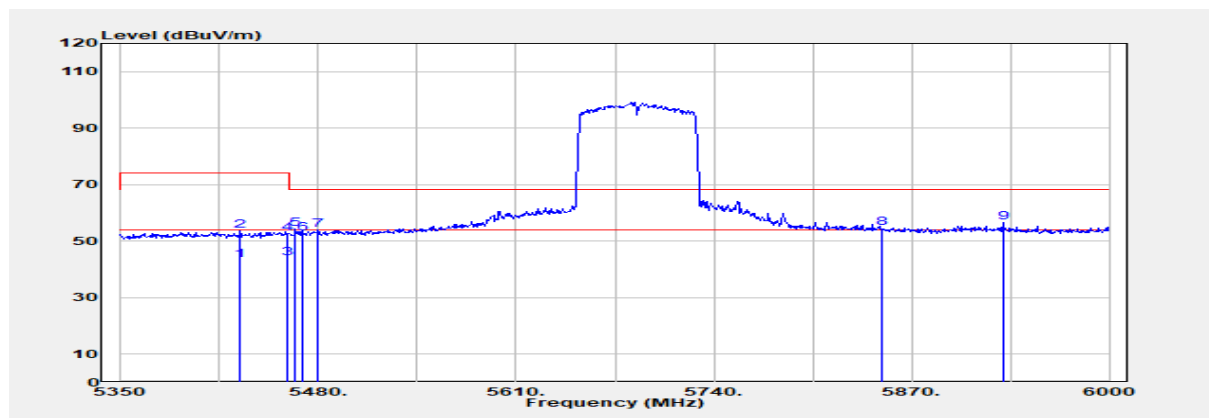
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Report Number :E2/2021/A0069  
Operation Mode :802.11ac80 / Band 3/4  
Test Frequency :5690 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2021-10-14  
Temp./Humi. :24.2/63  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5428.650	Average	40.88	2.40	43.28	54.00	-10.72
5428.650	Peak	51.20	2.40	53.60	74.00	-20.40
5460.000	Average	41.27	2.64	43.91	54.00	-10.09
5460.000	Peak	50.17	2.64	52.81	74.00	-21.19
5465.050	Peak	51.66	2.71	54.37	68.20	-13.83
5470.000	Peak	49.86	2.77	52.63	68.20	-15.57
5480.000	Peak	51.34	2.76	54.10	68.20	-14.10
5850.000	Peak	50.45	4.31	54.76	68.20	-13.44
5930.450	Peak	52.30	4.33	56.63	68.20	-11.57

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

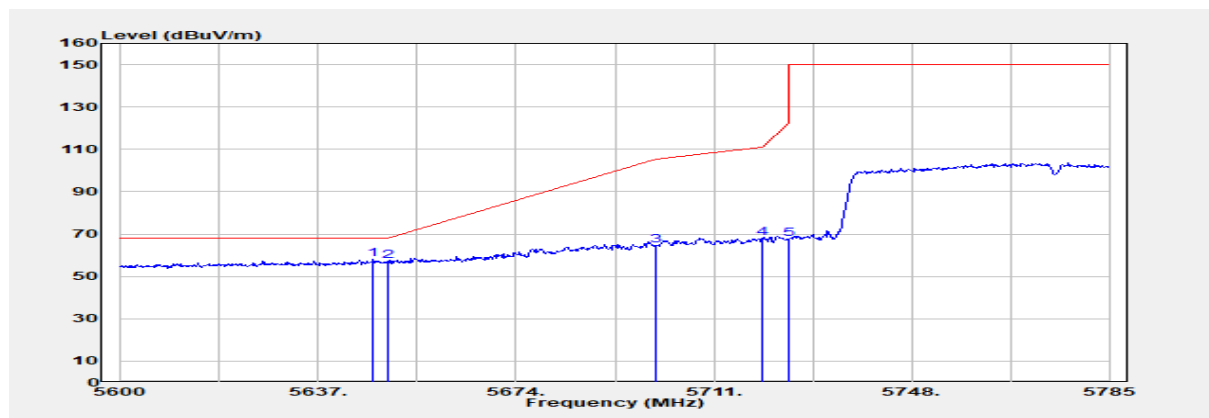
Temp./Humi. :24.5/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.175	Peak	54.62	3.55	58.16	68.20	-10.04
5650.000	Peak	53.45	3.60	57.05	68.20	-11.15
5700.000	Peak	61.19	3.31	64.50	105.20	-40.70
5720.000	Peak	64.04	4.17	68.21	110.80	-42.59
5725.000	Peak	63.55	4.21	67.76	122.20	-54.44

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

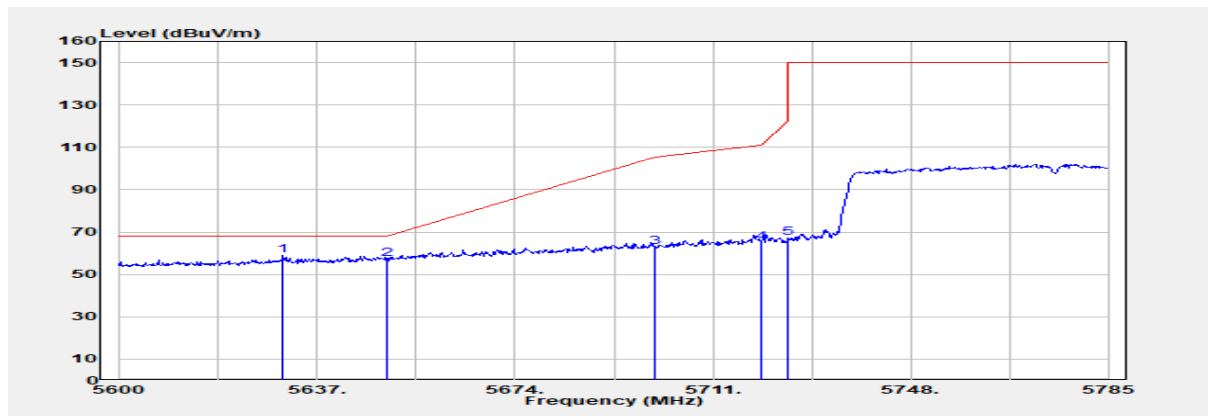
Temp./Humi. :24.5/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5630.525	Peak	55.42	3.49	58.90	68.20	-9.30
5650.000	Peak	53.72	3.60	57.32	68.20	-10.88
5700.000	Peak	59.77	3.31	63.08	105.20	-42.12
5720.000	Peak	60.85	4.17	65.02	110.80	-45.78
5725.000	Peak	62.84	4.21	67.06	122.20	-55.14

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

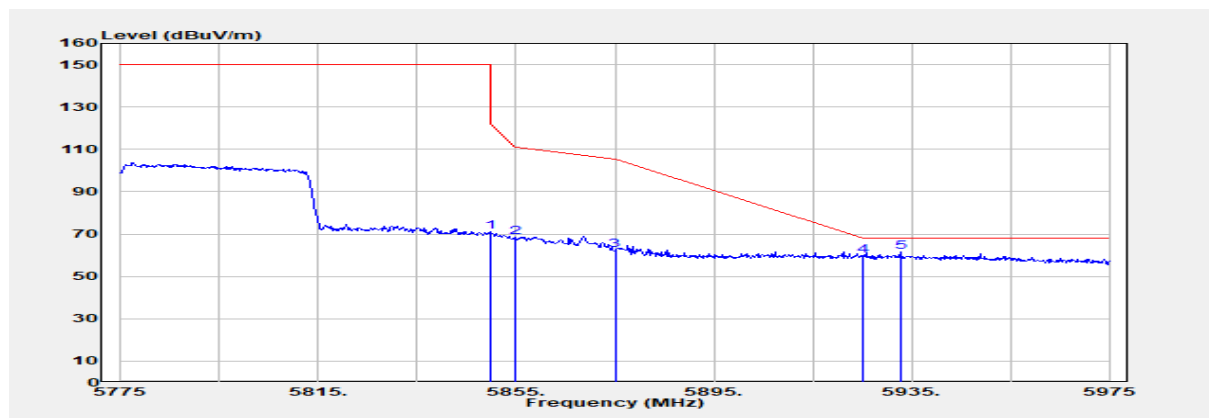
Temp./Humi. :24.5/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	66.97	4.31	71.28	122.20	-50.92
5855.000	Peak	64.34	4.21	68.55	110.80	-42.25
5875.000	Peak	58.65	3.90	62.55	105.20	-42.65
5925.000	Peak	55.50	4.36	59.85	68.20	-8.35
5932.800	Peak	57.42	4.28	61.70	68.20	-6.50

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Report Number :E2/2021/A0069

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

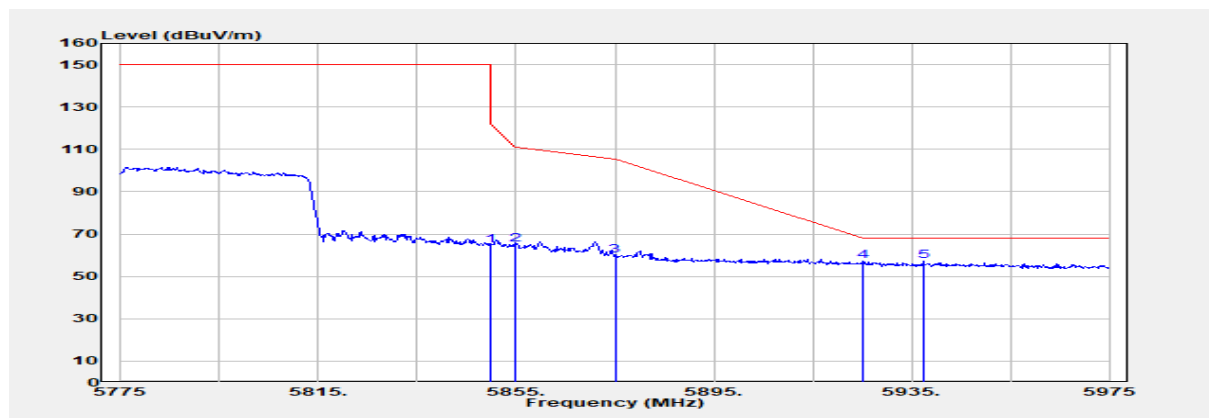
Temp./Humi. :24.5/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	60.48	4.31	64.79	122.20	-57.41
5855.000	Peak	60.76	4.21	64.97	110.80	-45.83
5875.000	Peak	56.09	3.90	59.99	105.20	-45.21
5925.000	Peak	52.78	4.36	57.13	68.20	-11.07
5937.400	Peak	53.09	4.18	57.27	68.20	-10.93

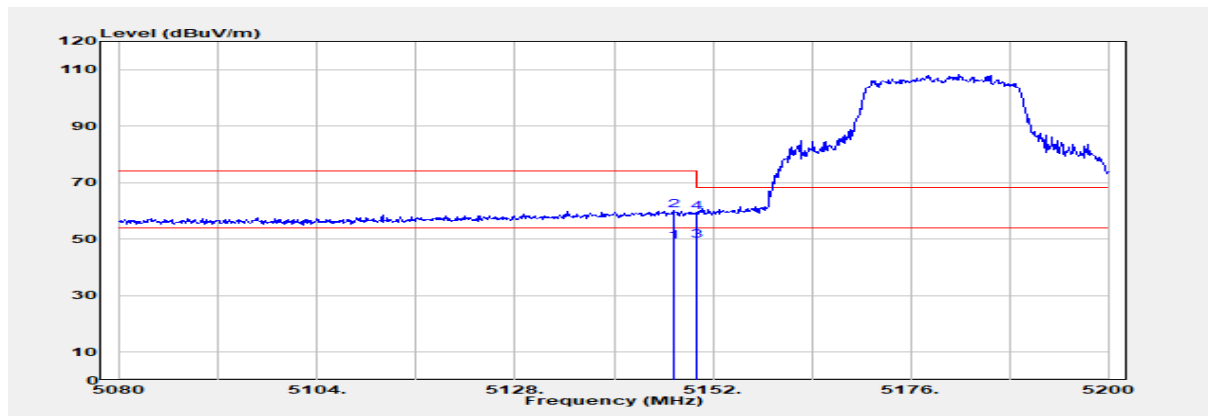
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.320	Average	46.18	2.97	49.15	54.00	-4.85
5147.320	Peak	57.22	2.97	60.18	74.00	-13.82
5150.000	Average	46.47	3.03	49.50	54.00	-4.50
5150.000	Peak	56.57	3.03	59.60	74.00	-14.40

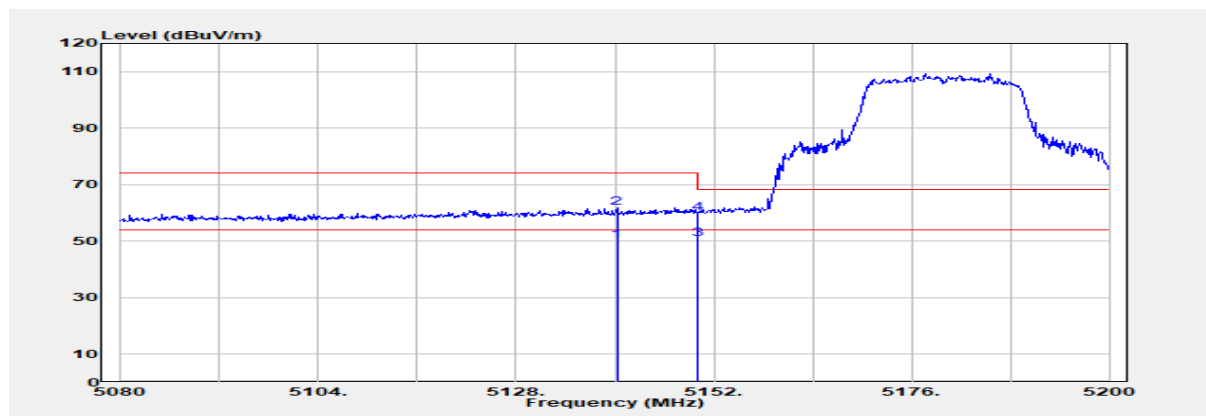
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5140.240	Average	47.30	2.80	50.09	54.00	-3.91
5140.240	Peak	59.03	2.80	61.83	74.00	-12.17
5150.000	Average	47.54	3.03	50.57	54.00	-3.43
5150.000	Peak	56.77	3.03	59.80	74.00	-14.20

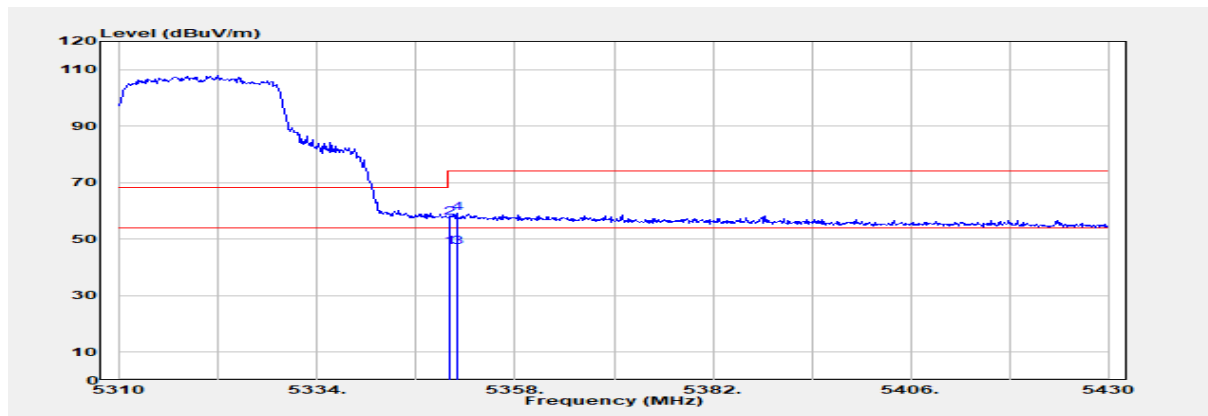
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	45.01	2.21	47.22	54.00	-6.78
5350.000	Peak	55.37	2.21	57.58	74.00	-16.42
5350.920	Average	45.00	2.21	47.21	54.00	-6.79
5350.920	Peak	56.88	2.21	59.09	74.00	-14.91

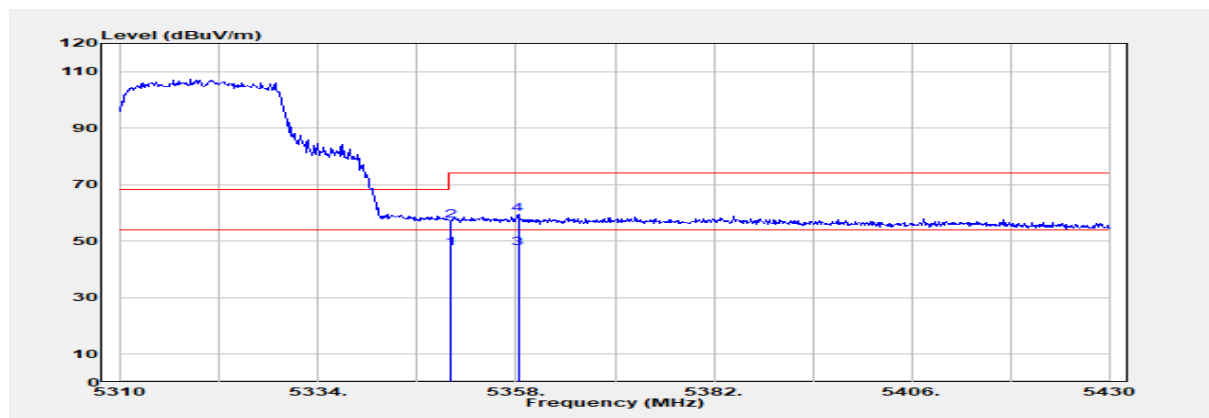
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	45.24	2.21	47.45	54.00	-6.55
5350.000	Peak	55.18	2.21	57.39	74.00	-16.61
5358.240	Average	45.21	2.22	47.43	54.00	-6.57
5358.240	Peak	57.16	2.22	59.38	74.00	-14.62

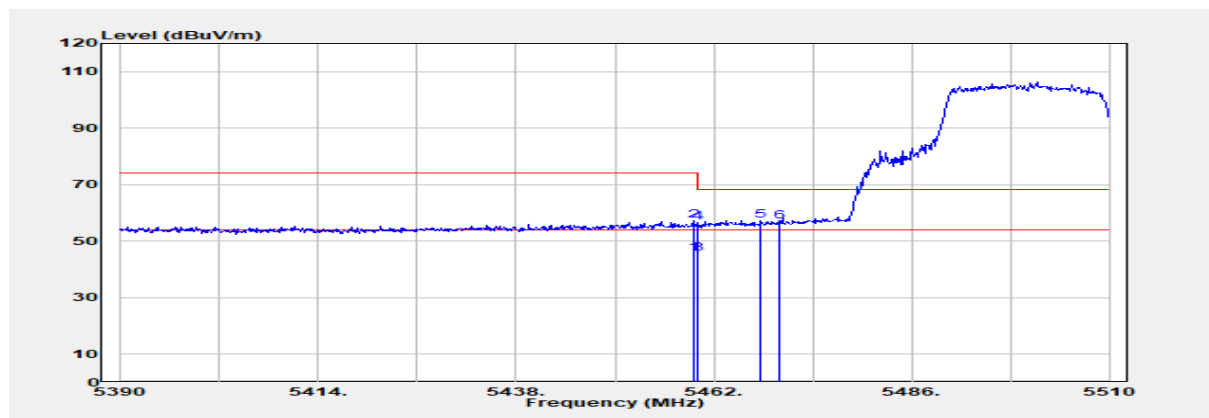
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Report Number :E2/2021/A0069  
Operation Mode :802.11ax20 / Band 3  
Test Frequency :5500 MHz  
Test Mode :BE CH LOW FULL RU  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2021-10-16  
Temp./Humi. :23.8/64  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.480	Average	42.95	2.64	45.58	54.00	-8.42
5459.480	Peak	54.74	2.64	57.38	74.00	-16.62
5460.000	Average	42.89	2.64	45.53	54.00	-8.47
5460.000	Peak	53.99	2.64	56.63	74.00	-17.37
5467.760	Peak	54.65	2.74	57.39	68.20	-10.81
5470.000	Peak	54.23	2.77	57.00	68.20	-11.20

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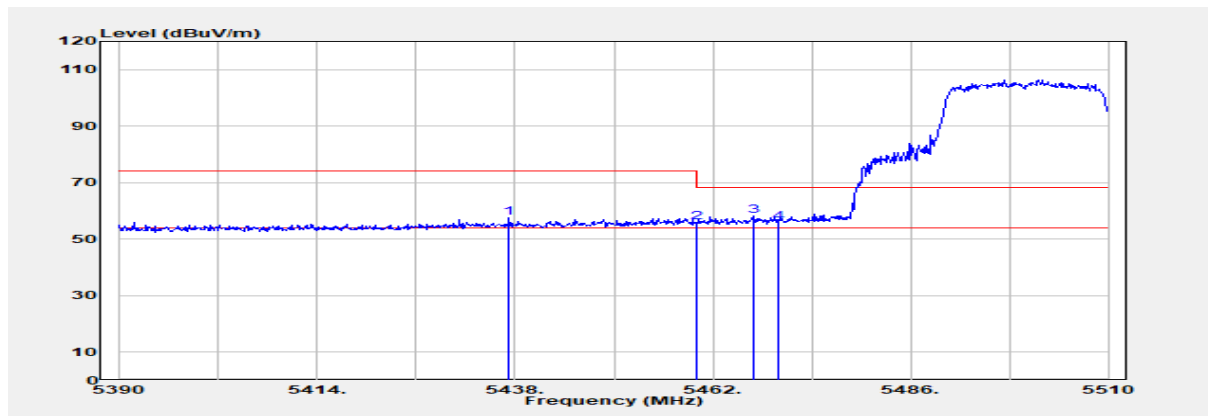
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5437.280	Peak	55.19	2.33	57.53	74.00	-16.47
5460.000	Peak	53.17	2.64	55.81	74.00	-18.19
5466.920	Peak	55.46	2.73	58.19	68.20	-10.01
5470.000	Peak	53.10	2.77	55.87	68.20	-12.33

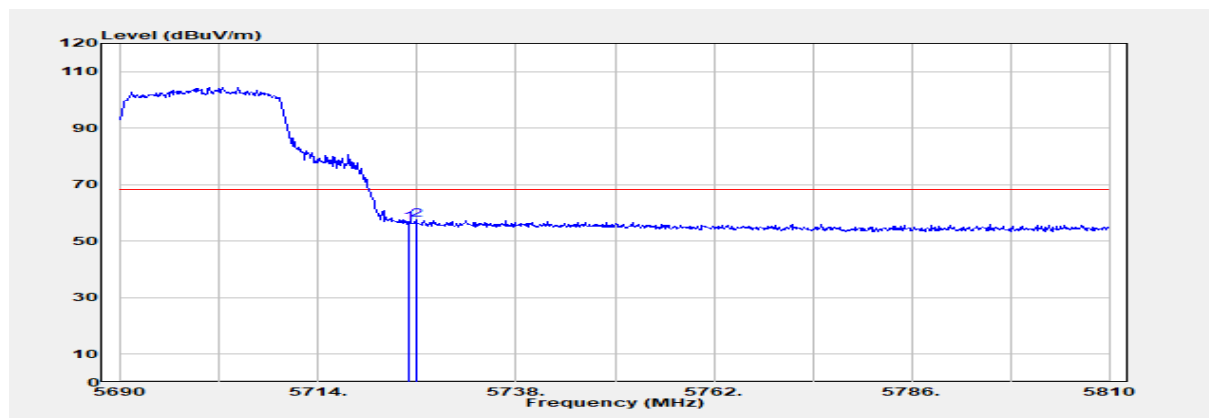
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	52.29	4.21	56.50	68.20	-11.70
5725.880	Peak	53.46	4.22	57.68	68.20	-10.52

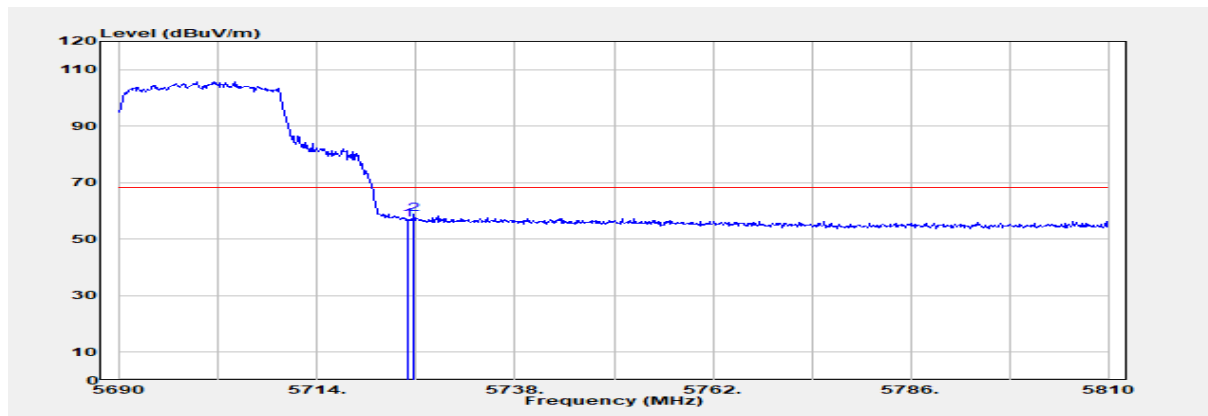
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	52.78	4.21	56.99	68.20	-11.21
5725.760	Peak	54.64	4.22	58.85	68.20	-9.35

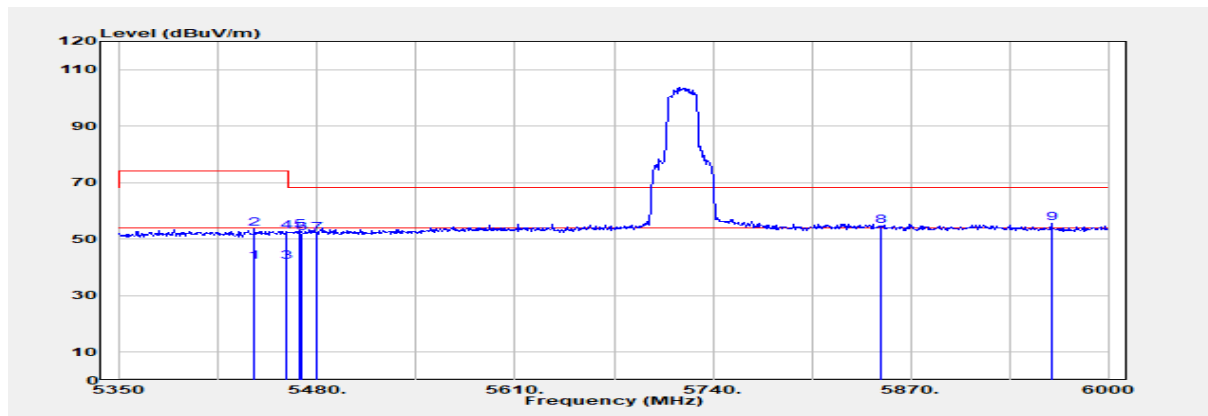
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 3/4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH MID FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5438.400	Average	39.50	2.32	41.83	54.00	-12.17
5438.400	Peak	51.25	2.32	53.57	74.00	-20.43
5460.000	Average	39.35	2.64	41.99	54.00	-12.01
5460.000	Peak	50.04	2.64	52.68	74.00	-21.32
5467.650	Peak	50.11	2.74	52.85	68.20	-15.35
5470.000	Peak	49.34	2.77	52.11	68.20	-16.09
5480.000	Peak	49.38	2.76	52.14	68.20	-16.06
5850.000	Peak	50.21	4.31	54.52	68.20	-13.68
5962.950	Peak	51.74	3.84	55.58	68.20	-12.62

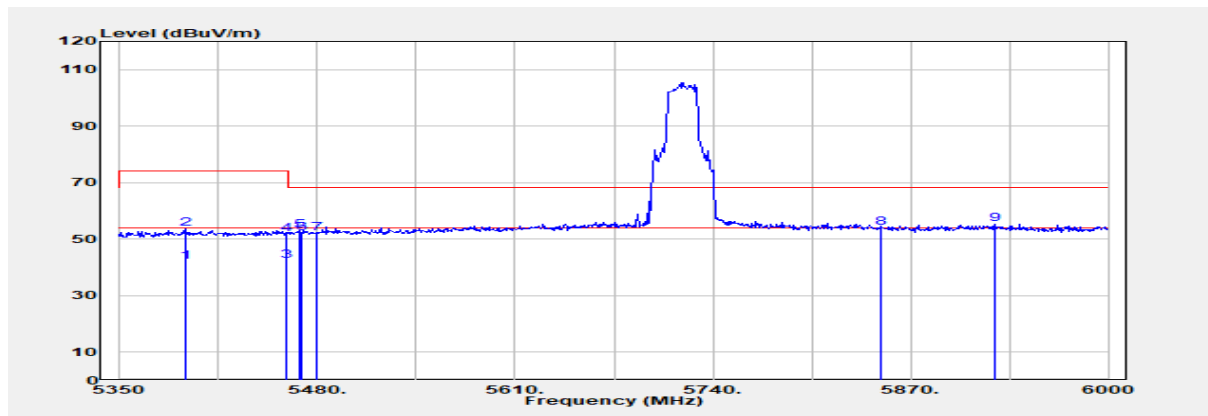
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 3/4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH MID FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5393.550	Average	39.48	2.59	42.07	54.00	-11.93
5393.550	Peak	51.20	2.59	53.79	74.00	-20.21
5460.000	Average	39.57	2.64	42.21	54.00	-11.79
5460.000	Peak	49.22	2.64	51.86	74.00	-22.14
5467.650	Peak	50.24	2.74	52.98	68.20	-15.22
5470.000	Peak	49.11	2.77	51.88	68.20	-16.32
5480.000	Peak	49.38	2.76	52.14	68.20	-16.06
5850.000	Peak	49.62	4.31	53.93	68.20	-14.27
5925.900	Peak	50.82	4.35	55.18	68.20	-13.02

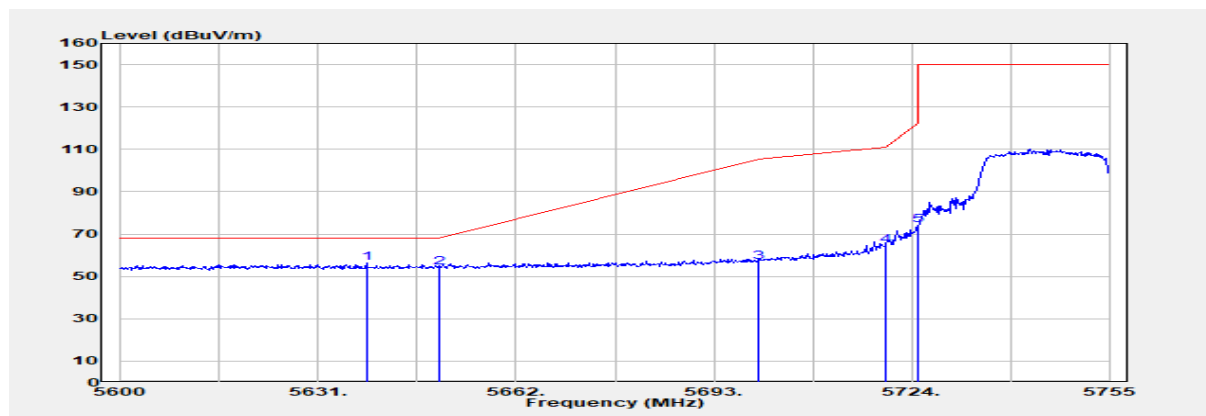
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5638.595	Peak	53.09	3.42	56.51	68.20	-11.69
5650.000	Peak	50.65	3.60	54.25	68.20	-13.95
5700.000	Peak	53.35	3.31	56.66	105.20	-48.54
5720.000	Peak	60.29	4.17	64.46	110.80	-46.34
5725.000	Peak	69.97	4.21	74.18	122.20	-48.02

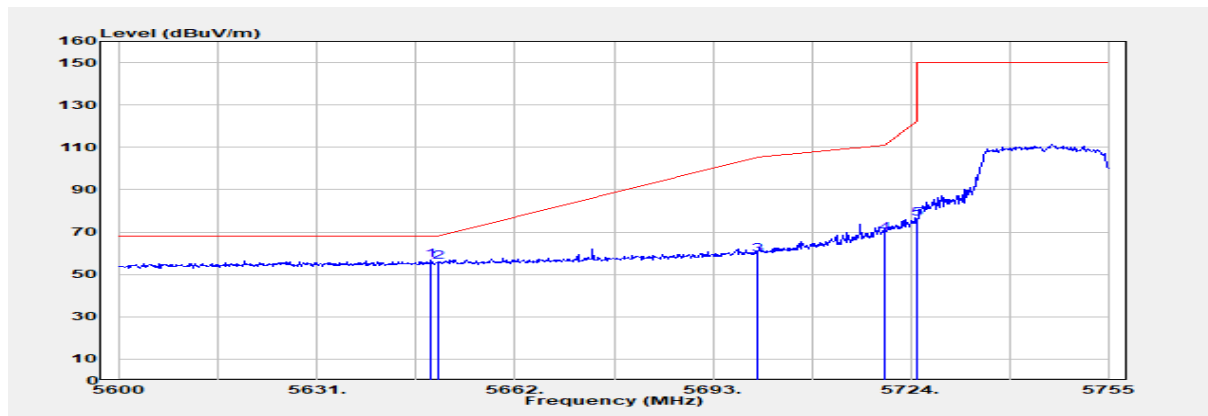
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.825	Peak	53.12	3.58	56.70	68.20	-11.50
5650.000	Peak	52.25	3.60	55.85	68.20	-12.35
5700.000	Peak	56.14	3.31	59.45	105.20	-45.75
5720.000	Peak	65.25	4.17	69.42	110.80	-41.38
5725.000	Peak	72.24	4.21	76.45	122.20	-45.75

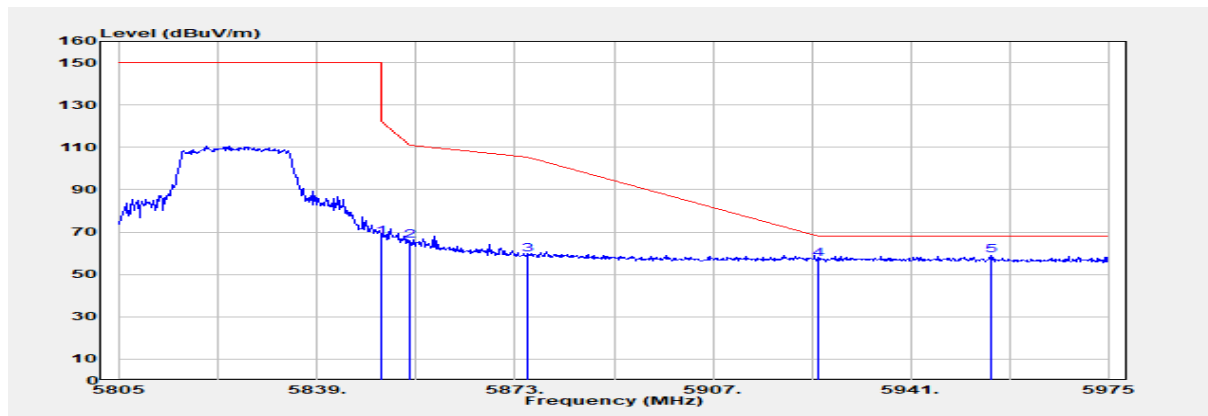
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	63.26	4.31	67.57	122.20	-54.63
5855.000	Peak	61.48	4.21	65.69	110.80	-45.11
5875.000	Peak	55.62	3.90	59.52	105.20	-45.68
5925.000	Peak	53.08	4.36	57.43	68.20	-10.77
5954.770	Peak	54.87	3.93	58.81	68.20	-9.39

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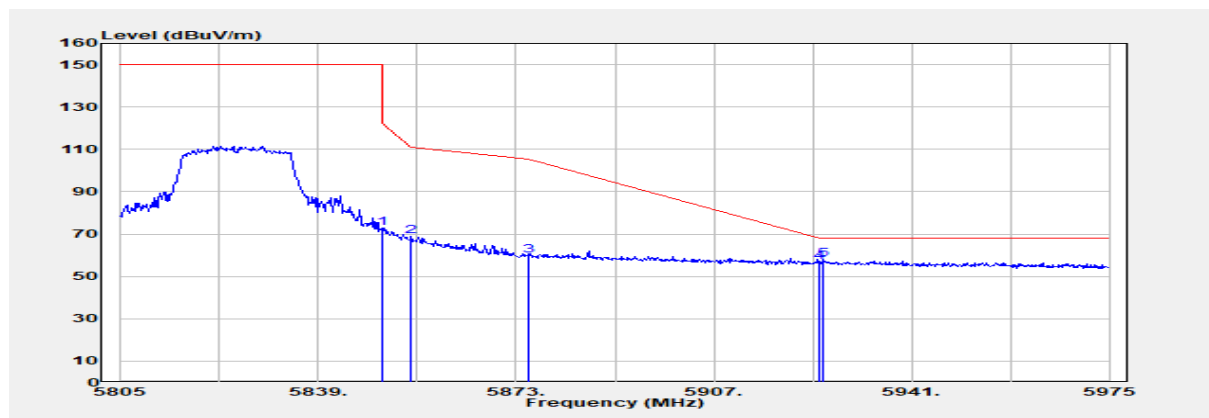
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	68.42	4.31	72.73	122.20	-49.47
5855.000	Peak	64.68	4.21	68.89	110.80	-41.91
5875.000	Peak	55.77	3.90	59.67	105.20	-45.53
5925.000	Peak	52.54	4.36	56.89	68.20	-11.31
5925.870	Peak	53.63	4.35	57.98	68.20	-10.22

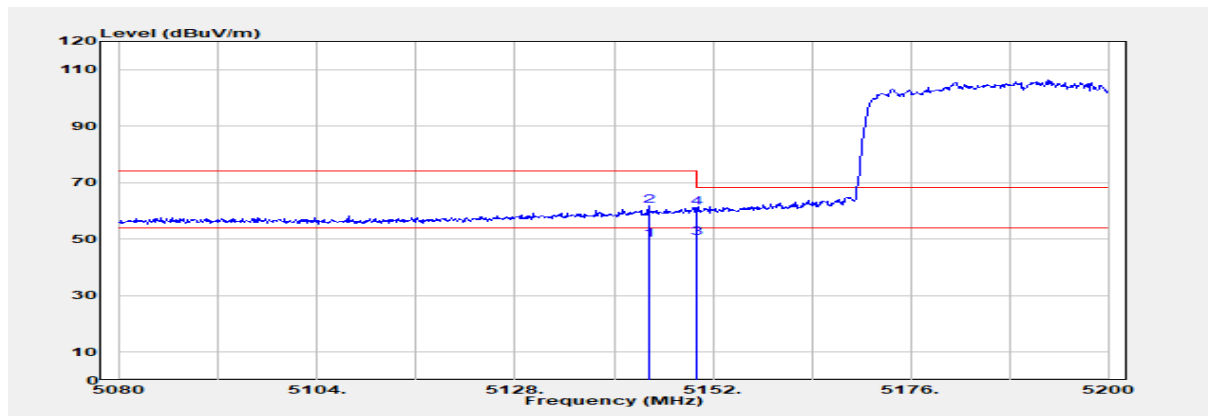
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 1  
 Test Frequency :5190 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5144.200	Average	46.74	2.89	49.63	54.00	-4.37
5144.200	Peak	59.00	2.89	61.89	74.00	-12.11
5150.000	Average	47.42	3.03	50.45	54.00	-3.56
5150.000	Peak	58.14	3.03	61.17	74.00	-12.83

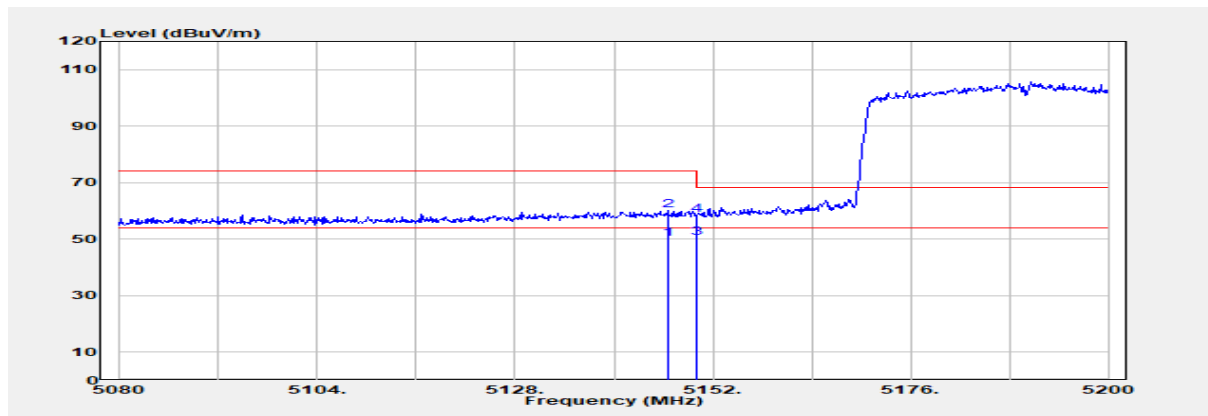
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 1  
 Test Frequency :5190 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.480	Average	47.06	2.95	50.00	54.00	-4.00
5146.480	Peak	57.12	2.95	60.07	74.00	-13.93
5150.000	Average	47.22	3.03	50.25	54.00	-3.75
5150.000	Peak	55.49	3.03	58.52	74.00	-15.48

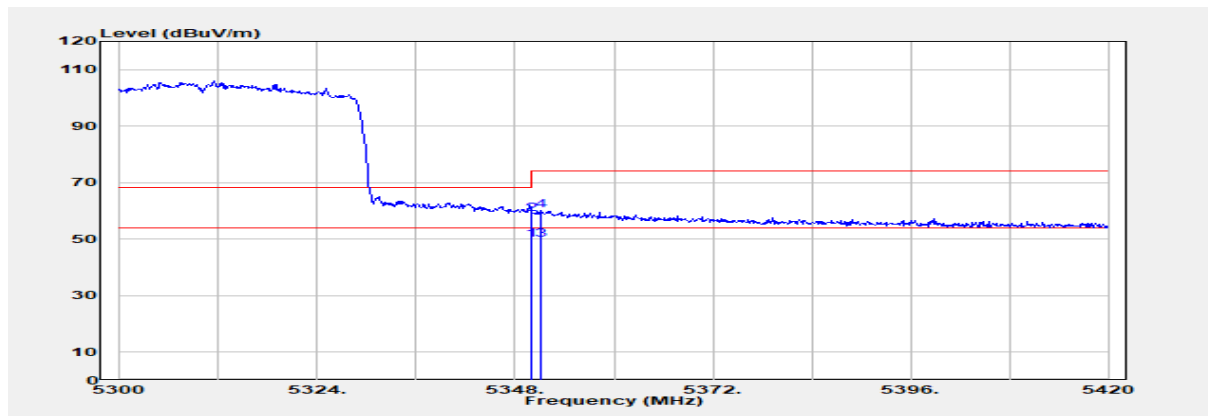
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 2  
 Test Frequency :5310 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



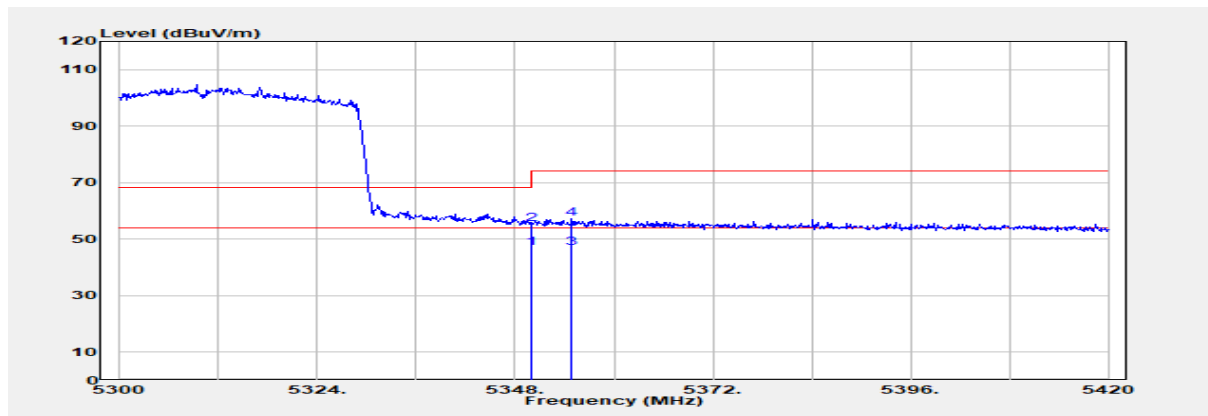
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	47.47	2.21	49.68	54.00	-4.32
5350.000	Peak	56.61	2.21	58.82	74.00	-15.18
5351.120	Average	47.56	2.21	49.77	54.00	-4.23
5351.120	Peak	57.87	2.21	60.08	74.00	-13.92

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Report Number	:E2/2021/A0069	Test Site	:SAC G
Operation Mode	:802.11ax40 / Band 2	Test Date	:2021-10-26
Test Frequency	:5310 MHz	Temp./Humi.	:24.5/63
Test Mode	:BE CH HIGH FULL RU	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.69	2.21	46.90	54.00	-7.10
5350.000	Peak	53.07	2.21	55.28	74.00	-18.72
5354.840	Average	44.60	2.21	46.82	54.00	-7.18
5354.840	Peak	55.10	2.21	57.32	74.00	-16.68

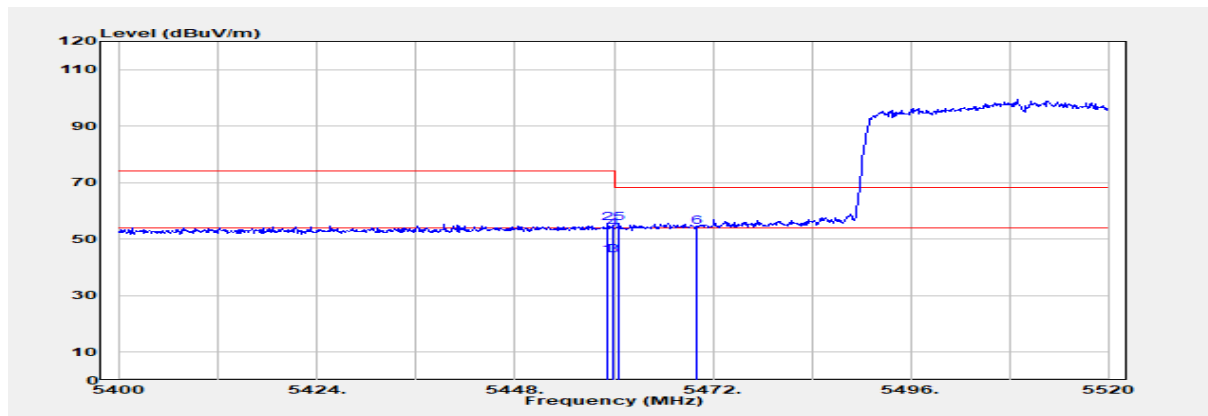
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 3  
 Test Frequency :5510 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.280	Average	41.73	2.64	44.37	54.00	-9.63
5459.280	Peak	52.89	2.64	55.53	74.00	-18.47
5460.000	Average	41.73	2.64	44.37	54.00	-9.63
5460.000	Peak	50.87	2.64	53.51	74.00	-20.49
5460.600	Peak	52.91	2.65	55.56	68.20	-12.64
5470.000	Peak	51.49	2.77	54.26	68.20	-13.94

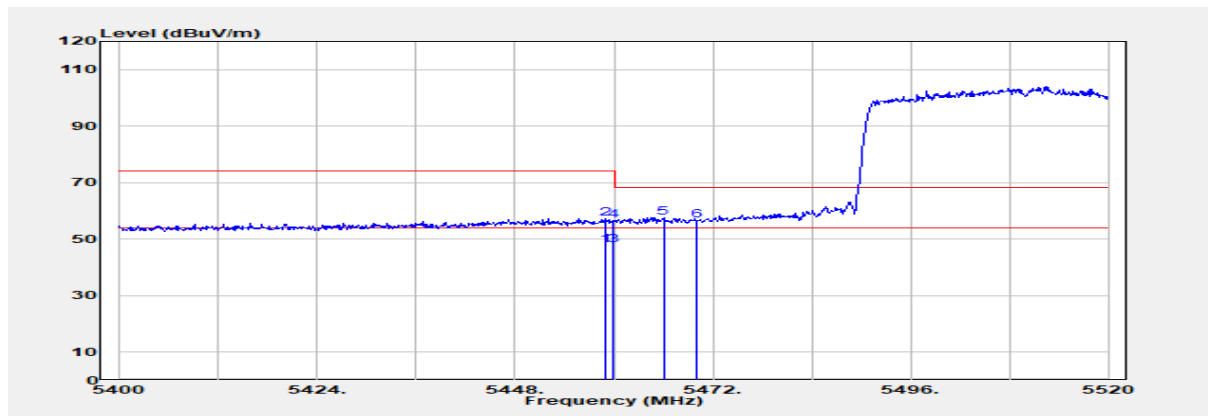
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 3  
 Test Frequency :5510 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.920	Average	45.05	2.64	47.68	54.00	-6.32
5458.920	Peak	54.75	2.64	57.39	74.00	-16.61
5460.000	Average	45.11	2.64	47.75	54.00	-6.25
5460.000	Peak	53.88	2.64	56.52	74.00	-17.48
5466.000	Peak	54.87	2.72	57.59	68.20	-10.61
5470.000	Peak	53.96	2.77	56.73	68.20	-11.47

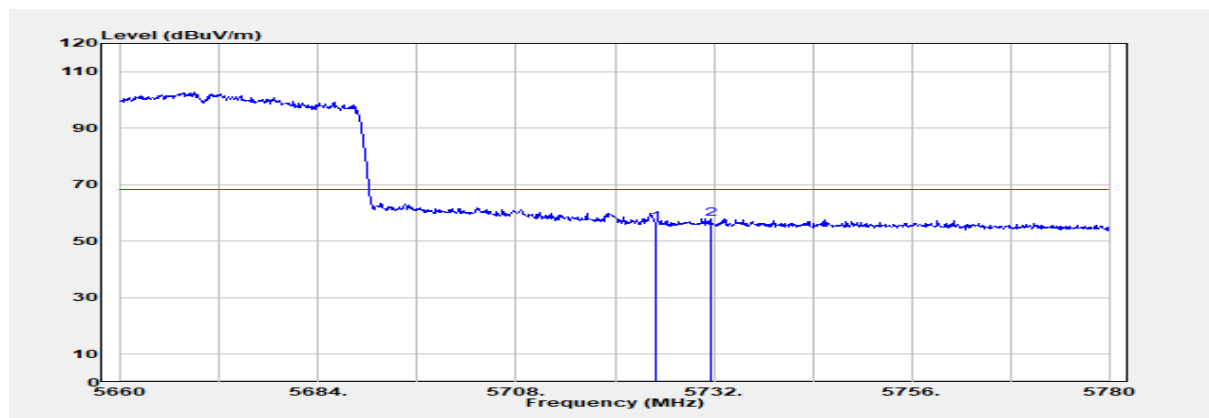
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 3  
 Test Frequency :5670 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	52.25	4.21	56.46	68.20	-11.74
5731.640	Peak	53.69	4.27	57.96	68.20	-10.24

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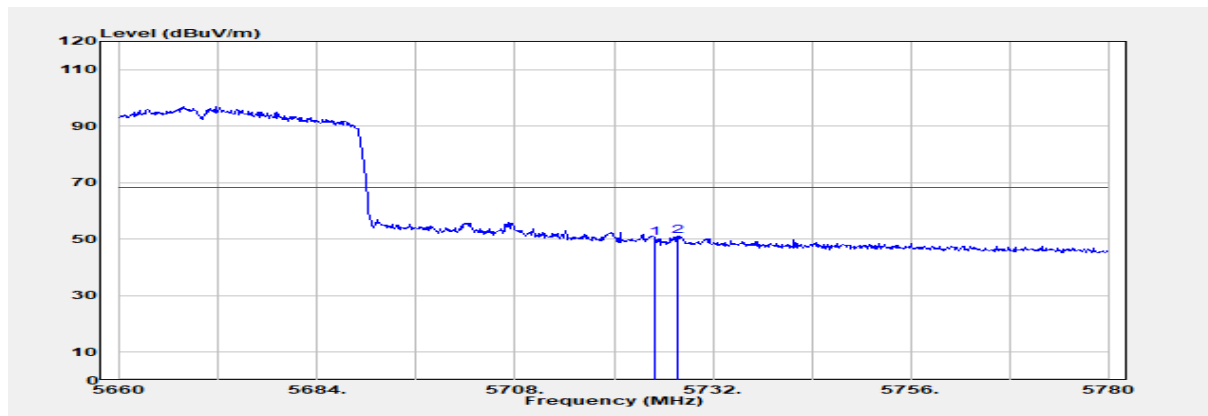
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 3  
 Test Frequency :5670 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	46.35	4.21	50.56	68.20	-17.64
5727.680	Peak	46.97	4.23	51.20	68.20	-17.00

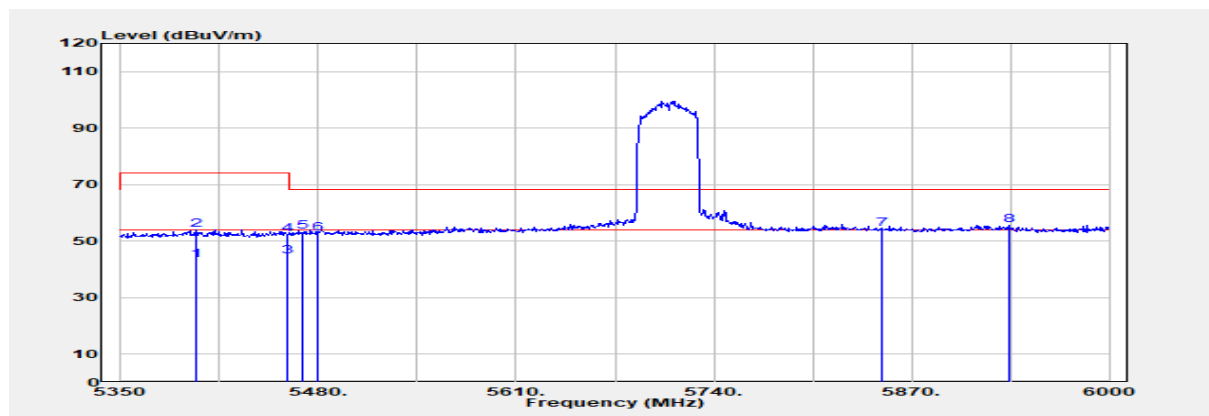
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 3/4  
 Test Frequency :5710 MHz  
 Test Mode :BE CH MID FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5400.050	Average	40.79	2.54	43.33	54.00	-10.67
5400.050	Peak	51.55	2.54	54.10	74.00	-19.90
5460.000	Average	42.04	2.64	44.68	54.00	-9.32
5460.000	Peak	49.67	2.64	52.31	74.00	-21.69
5470.000	Peak	50.42	2.77	53.19	68.20	-15.01
5480.000	Peak	49.97	2.76	52.73	68.20	-15.47
5850.000	Peak	50.06	4.31	54.37	68.20	-13.83
5934.350	Peak	51.44	4.25	55.69	68.20	-12.51

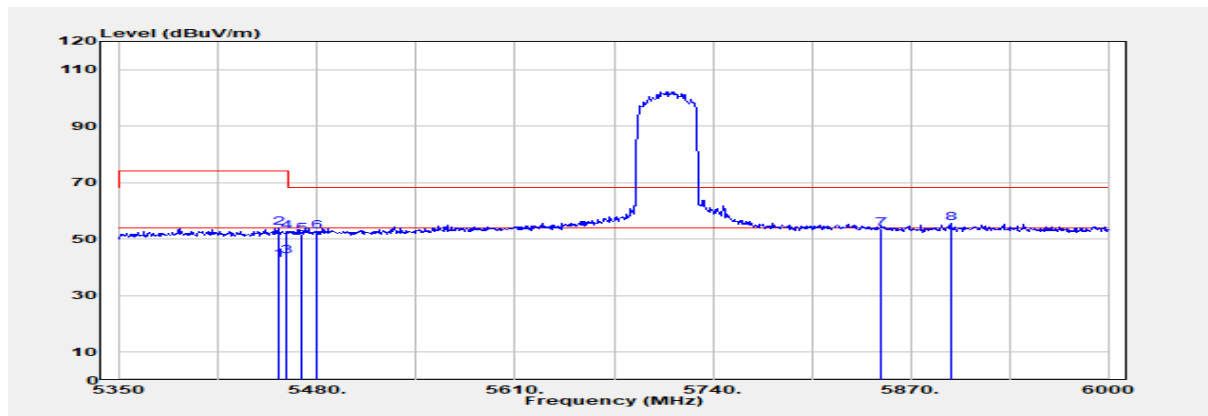
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 3/4  
 Test Frequency :5710 MHz  
 Test Mode :BE CH MID FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.000	Average	40.09	2.62	42.71	54.00	-11.29
5454.000	Peak	51.35	2.62	53.97	74.00	-20.03
5460.000	Average	41.24	2.64	43.88	54.00	-10.12
5460.000	Peak	49.90	2.64	52.54	74.00	-21.46
5470.000	Peak	49.01	2.77	51.78	68.20	-16.42
5480.000	Peak	49.79	2.76	52.55	68.20	-15.65
5850.000	Peak	49.22	4.31	53.53	68.20	-14.67
5896.650	Peak	51.43	4.03	55.46	68.20	-12.74

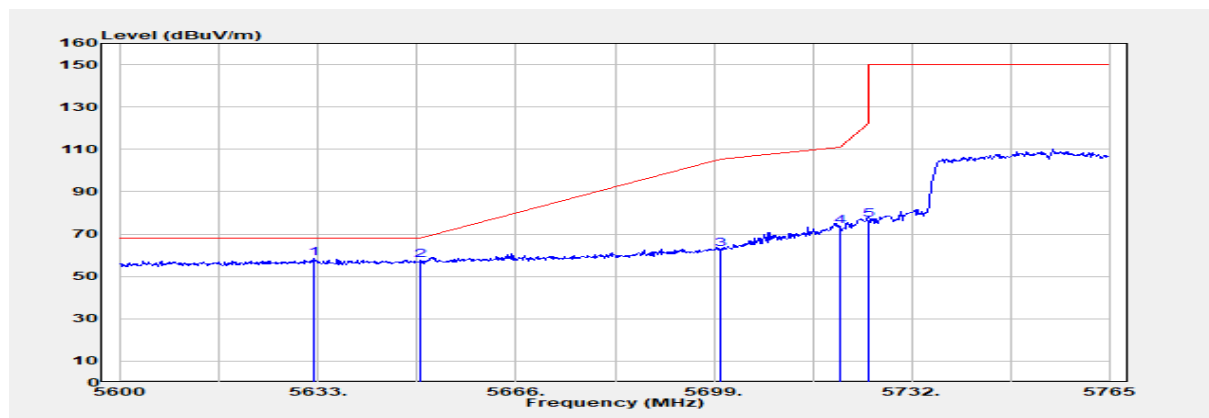
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 4  
 Test Frequency :5755 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5632.340	Peak	54.94	3.47	58.41	68.20	-9.79
5650.000	Peak	53.92	3.60	57.52	68.20	-10.68
5700.000	Peak	59.48	3.31	62.79	105.20	-42.41
5720.000	Peak	69.41	4.17	73.58	110.80	-37.22
5725.000	Peak	72.35	4.21	76.56	122.20	-45.64

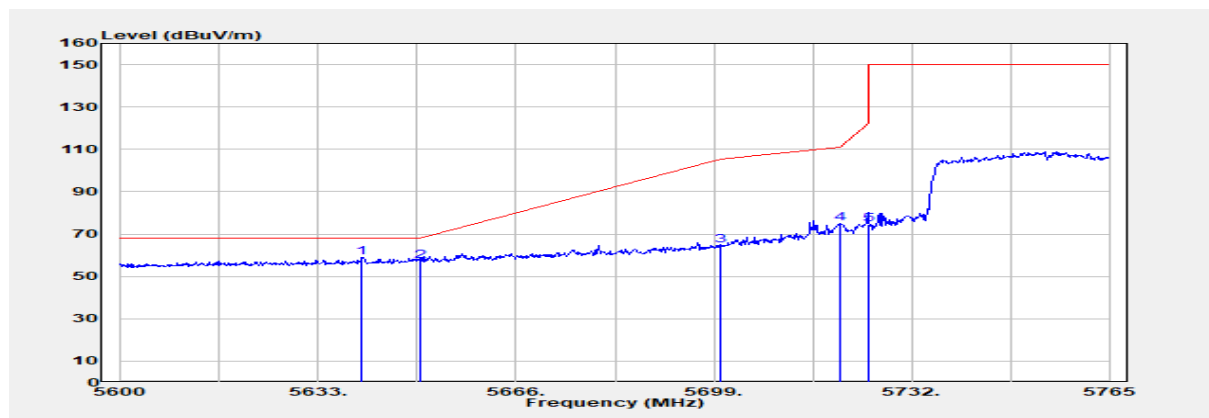
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 4  
 Test Frequency :5755 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5640.260	Peak	55.52	3.42	58.94	68.20	-9.26
5650.000	Peak	53.55	3.60	57.15	68.20	-11.05
5700.000	Peak	61.24	3.31	64.55	105.20	-40.65
5720.000	Peak	70.87	4.17	75.04	110.80	-35.76
5725.000	Peak	70.16	4.21	74.37	122.20	-47.83

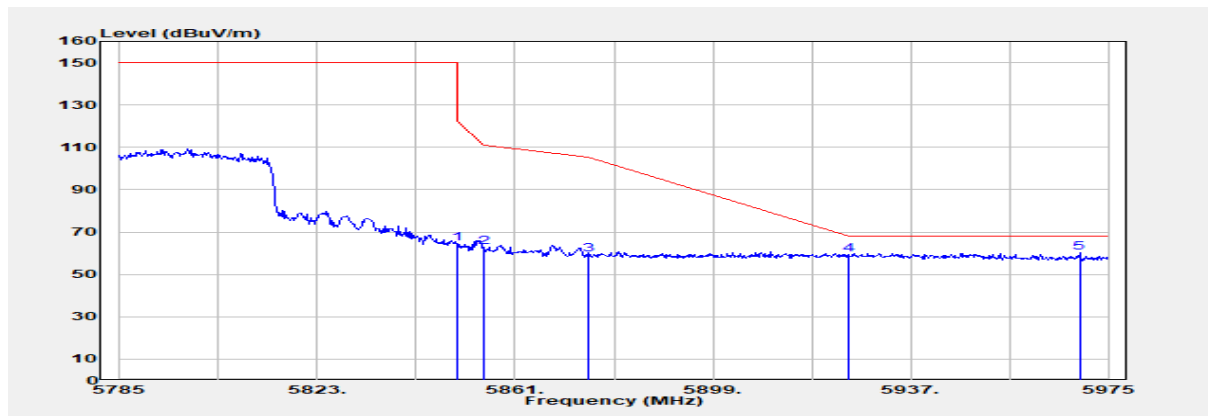
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 4  
 Test Frequency :5795 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	60.13	4.31	64.44	122.20	-57.76
5855.000	Peak	58.64	4.21	62.85	110.80	-47.95
5875.000	Peak	55.65	3.90	59.55	105.20	-45.65
5925.000	Peak	54.94	4.36	59.30	68.20	-8.90
5969.490	Peak	56.56	3.88	60.44	68.20	-7.76

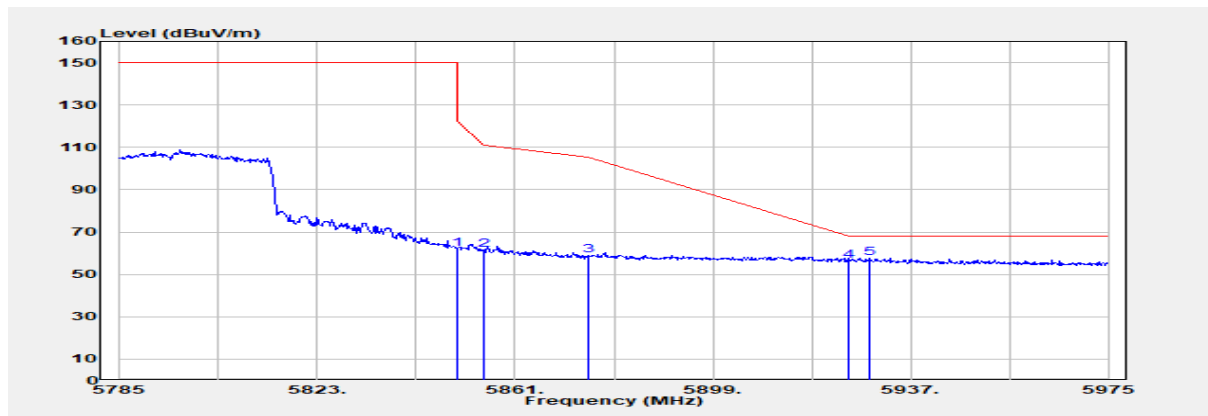
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax40 / Band 4  
 Test Frequency :5795 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	57.61	4.31	61.92	122.20	-60.28
5855.000	Peak	57.39	4.21	61.60	110.80	-49.20
5875.000	Peak	55.07	3.90	58.97	105.20	-46.23
5925.000	Peak	52.07	4.36	56.43	68.20	-11.77
5929.020	Peak	53.28	4.34	57.63	68.20	-10.57

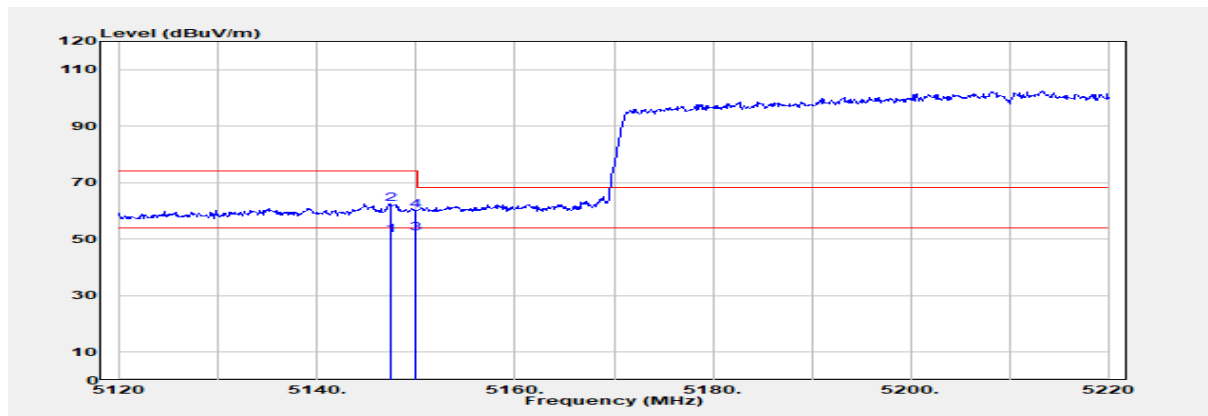
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 1  
 Test Frequency :5210 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.400	Average	48.35	2.97	51.31	54.00	-2.69
5147.400	Peak	59.55	2.97	62.51	74.00	-11.49
5150.000	Average	49.13	3.03	52.16	54.00	-1.84
5150.000	Peak	57.21	3.03	60.24	74.00	-13.76

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

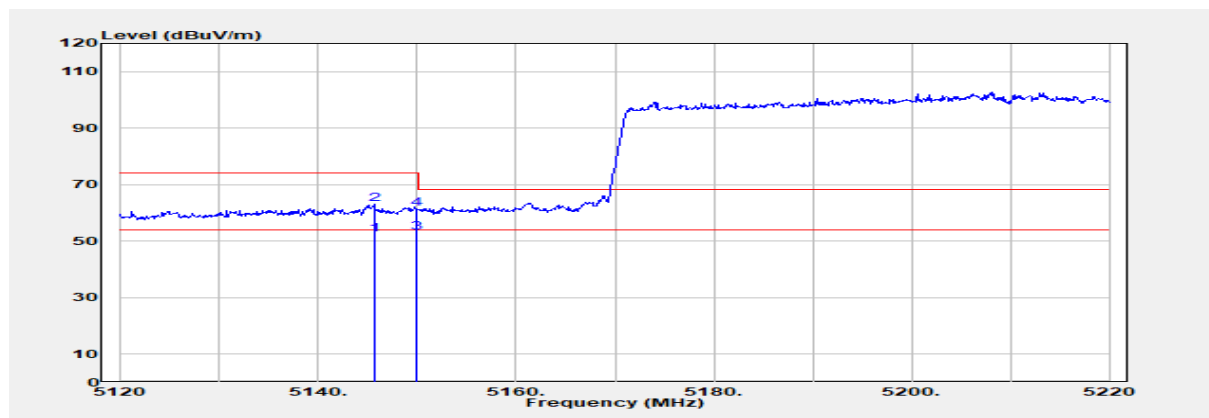
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 1  
 Test Frequency :5210 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.600	Average	49.35	2.92	52.27	54.00	-1.73
5145.600	Peak	60.14	2.92	63.07	74.00	-10.93
5150.000	Average	49.83	3.03	52.86	54.00	-1.14
5150.000	Peak	58.30	3.03	61.33	74.00	-12.67

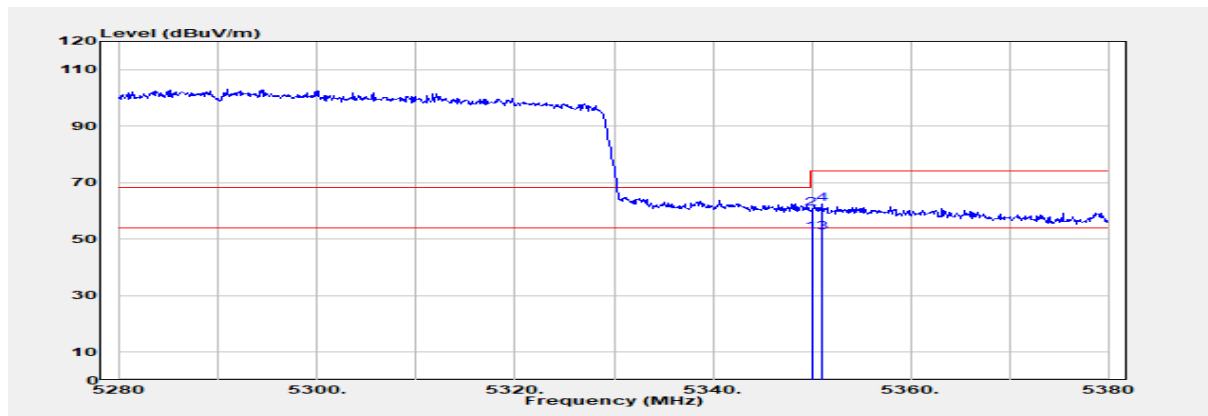
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 2  
 Test Frequency :5290 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	50.28	2.21	52.49	54.00	-1.51
5350.000	Peak	58.51	2.21	60.72	74.00	-13.28
5351.000	Average	50.08	2.21	52.29	54.00	-1.71
5351.000	Peak	60.24	2.21	62.45	74.00	-11.55

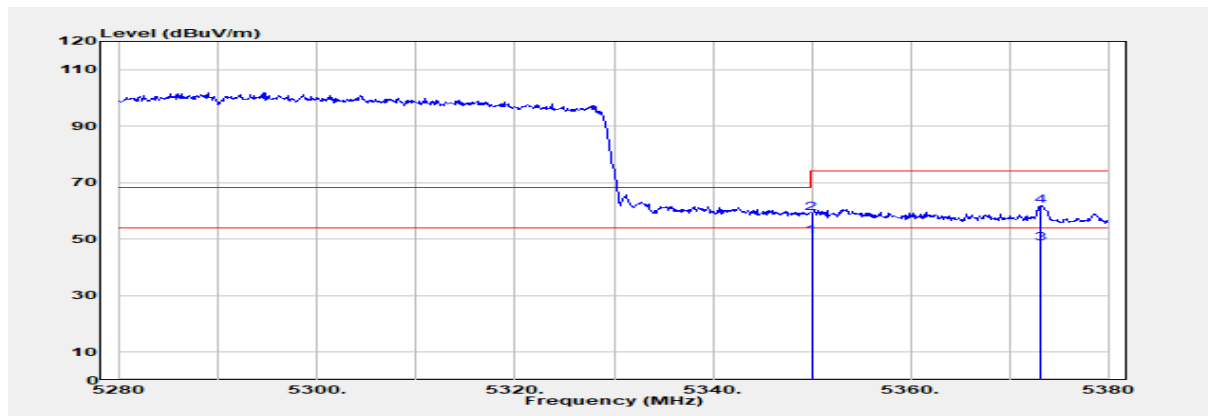
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 2  
 Test Frequency :5290 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	48.82	2.21	51.03	54.00	-2.97
5350.000	Peak	57.09	2.21	59.30	74.00	-14.70
5373.100	Average	46.13	2.32	48.44	54.00	-5.56
5373.100	Peak	59.58	2.32	61.90	74.00	-12.10

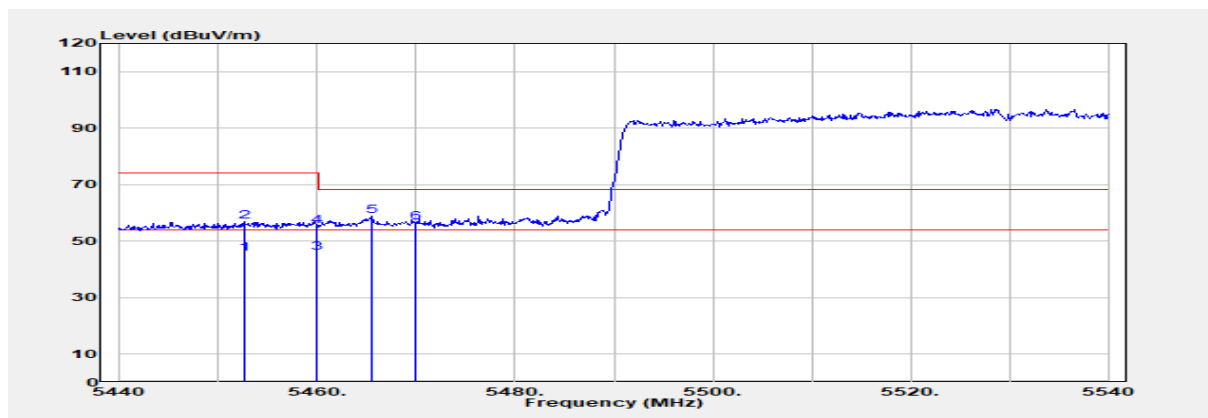
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 3  
 Test Frequency :5530 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5452.600	Average	42.95	2.61	45.56	54.00	-8.44
5452.600	Peak	54.27	2.61	56.88	74.00	-17.12
5460.000	Average	43.22	2.64	45.86	54.00	-8.14
5460.000	Peak	52.69	2.64	55.33	74.00	-18.67
5465.500	Peak	56.15	2.71	58.86	68.20	-9.34
5470.000	Peak	53.82	2.77	56.59	68.20	-11.61

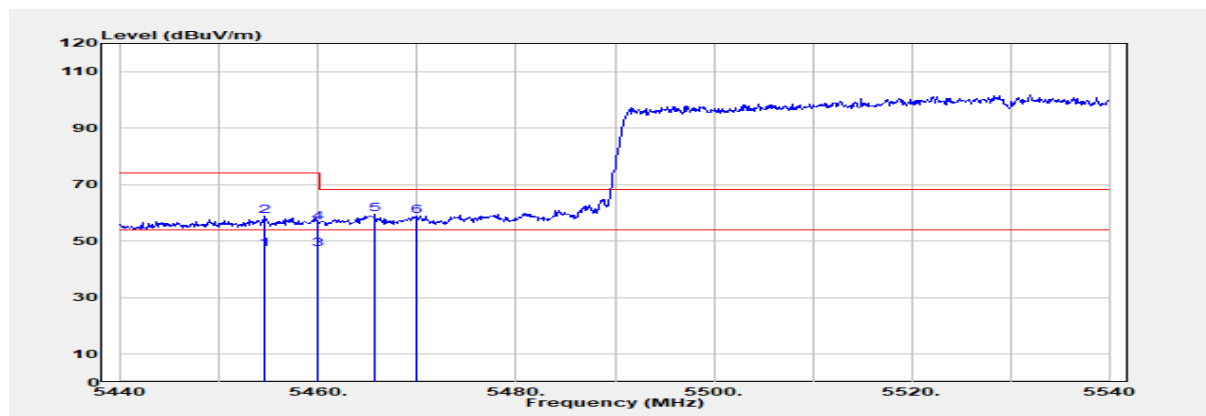
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 3  
 Test Frequency :5530 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.600	Average	44.58	2.62	47.19	54.00	-6.81
5454.600	Peak	56.21	2.62	58.83	74.00	-15.17
5460.000	Average	44.52	2.64	47.16	54.00	-6.84
5460.000	Peak	54.00	2.64	56.64	74.00	-17.36
5465.700	Peak	56.72	2.71	59.43	68.20	-8.77
5470.000	Peak	56.16	2.77	58.93	68.20	-9.27

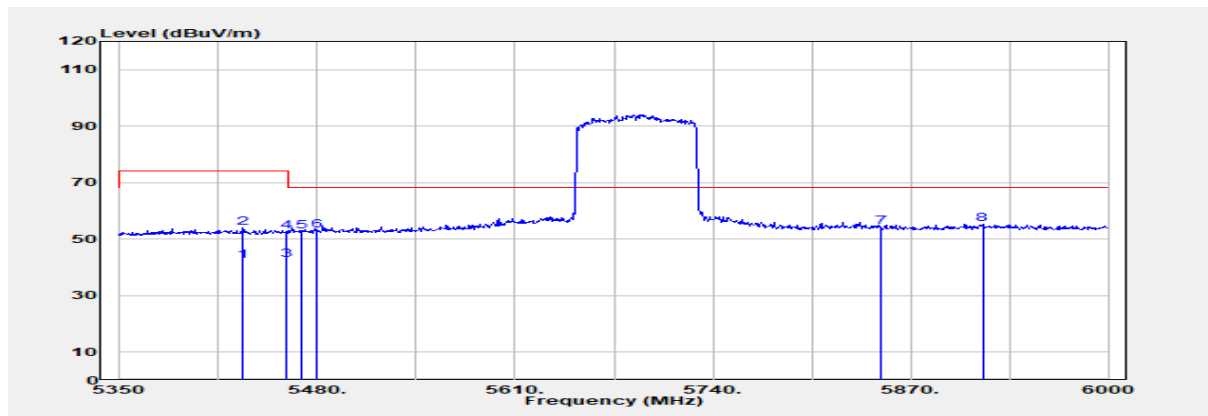
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 3/4  
 Test Frequency :5690 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5431.250	Average	39.84	2.39	42.23	74.00	-31.77
5431.250	Peak	51.43	2.39	53.82	74.00	-20.18
5460.000	Average	40.11	2.64	42.75	74.00	-31.25
5460.000	Peak	50.09	2.64	52.73	74.00	-21.27
5470.000	Peak	49.94	2.77	52.71	68.20	-15.49
5480.000	Peak	50.09	2.76	52.85	68.20	-15.35
5850.000	Peak	50.08	4.31	54.39	68.20	-13.81
5917.450	Peak	50.87	4.38	55.25	68.20	-12.95

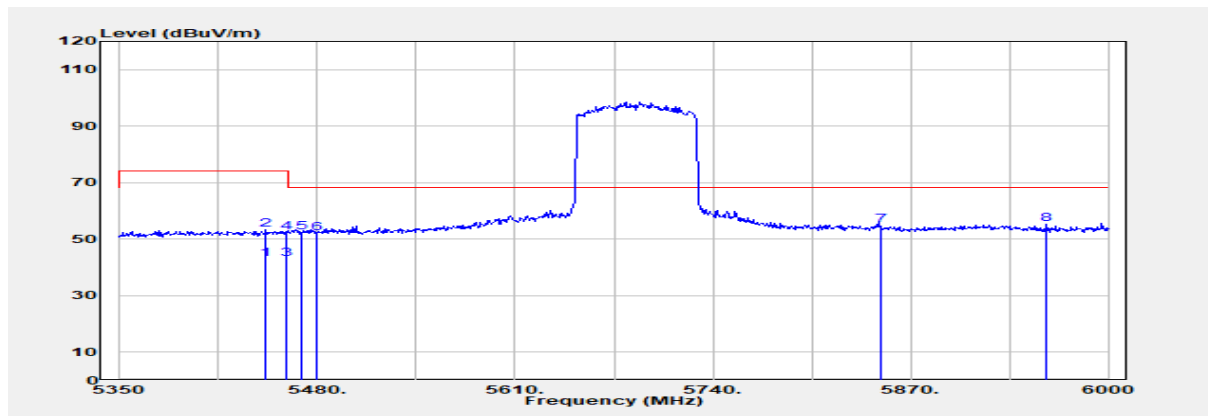
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 3/4  
 Test Frequency :5690 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-16  
 Temp./Humi. :23.8/64  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.200	Average	40.30	2.49	42.79	74.00	-31.21
5446.200	Peak	50.94	2.49	53.43	74.00	-20.57
5460.000	Average	40.14	2.64	42.78	74.00	-31.22
5460.000	Peak	49.58	2.64	52.22	74.00	-21.78
5470.000	Peak	49.69	2.77	52.46	68.20	-15.74
5480.000	Peak	49.20	2.76	51.96	68.20	-16.24
5850.000	Peak	50.77	4.31	55.08	68.20	-13.12
5959.700	Peak	51.47	3.83	55.29	68.20	-12.91

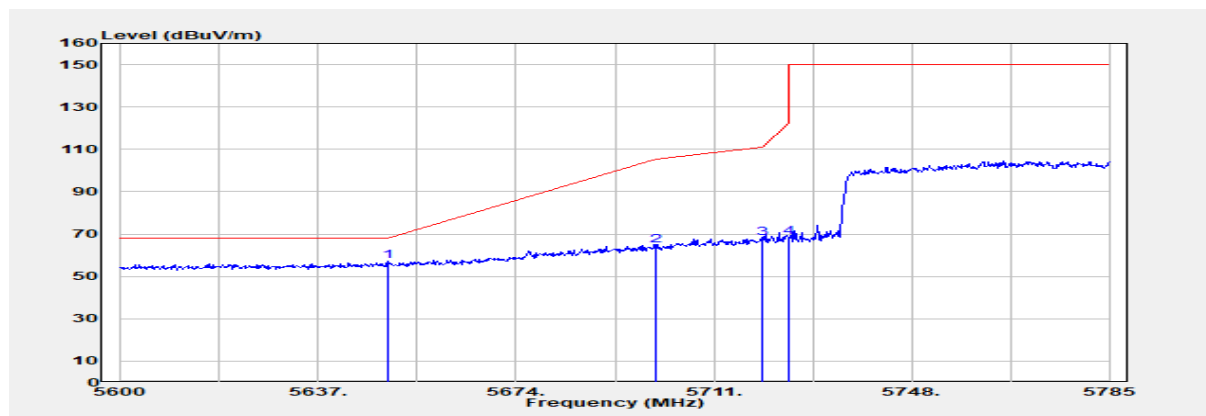
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 4  
 Test Frequency :5775 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	53.84	3.60	57.44	68.20	-10.76
5700.000	Peak	61.50	3.31	64.81	105.20	-40.39
5720.000	Peak	64.01	4.17	68.18	110.80	-42.62
5725.000	Peak	64.21	4.21	68.42	122.20	-53.78

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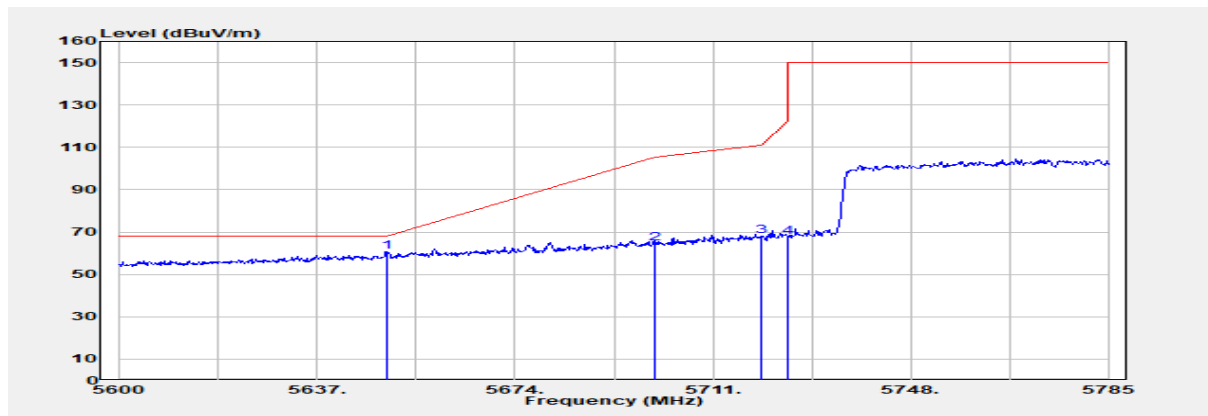
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 4  
 Test Frequency :5775 MHz  
 Test Mode :BE CH LOW FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	56.97	3.60	60.57	68.20	-7.63
5700.000	Peak	61.26	3.31	64.57	105.20	-40.63
5720.000	Peak	64.01	4.17	68.18	110.80	-42.62
5725.000	Peak	63.58	4.21	67.79	122.20	-54.41

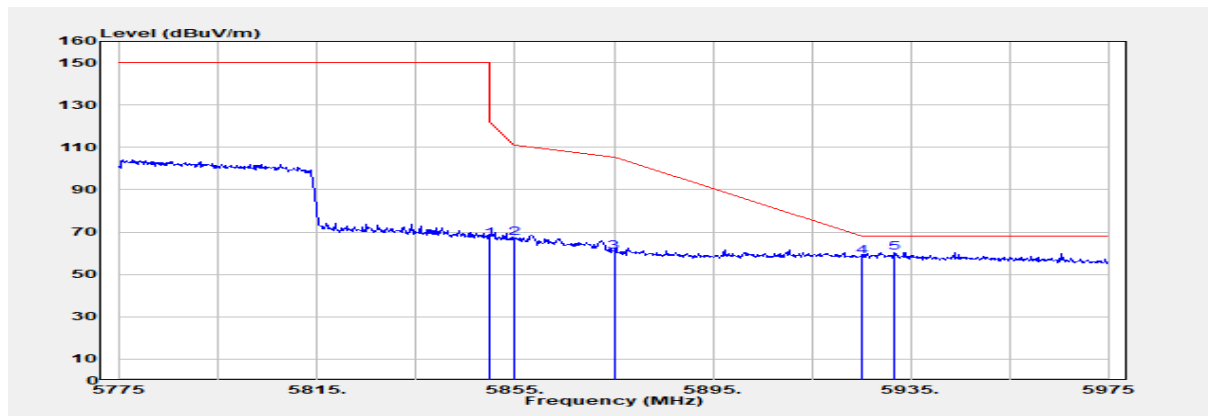
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Report Number :E2/2021/A0069  
 Operation Mode :802.11ax80 / Band 4  
 Test Frequency :5775 MHz  
 Test Mode :BE CH HIGH FULL RU  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-10-26  
 Temp./Humi. :24.5/63  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



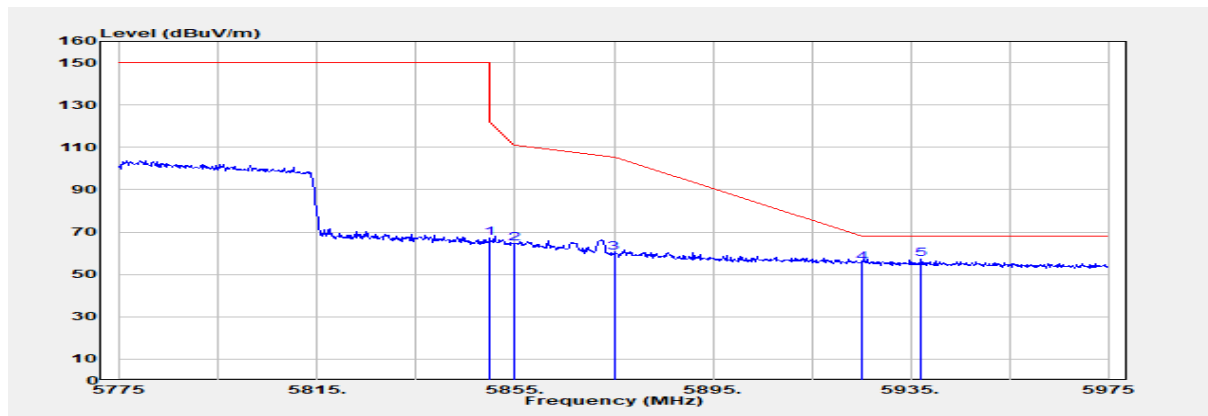
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	62.32	4.31	66.63	122.20	-55.57
5855.000	Peak	62.86	4.21	67.07	110.80	-43.73
5875.000	Peak	56.73	3.90	60.63	105.20	-44.57
5925.000	Peak	54.03	4.36	58.38	68.20	-9.82
5931.800	Peak	55.98	4.30	60.28	68.20	-7.92

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Report Number	:E2/2021/A0069	Test Site	:SAC G
Operation Mode	:802.11ax80 / Band 4	Test Date	:2021-10-26
Test Frequency	:5775 MHz	Temp./Humi.	:24.5/63
Test Mode	:BE CH HIGH FULL RU	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	62.73	4.31	67.04	122.20	-55.16
5855.000	Peak	60.48	4.21	64.69	110.80	-46.11
5875.000	Peak	56.38	3.90	60.28	105.20	-44.92
5925.000	Peak	51.33	4.36	55.69	68.20	-12.51
5937.200	Peak	53.13	4.19	57.31	68.20	-10.89

~ End of Report ~

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