

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: MediaTek Inc.
No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City,
30078 Taiwan

Product Name: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand Name: MediaTek

Model No.: MT7922A22M

Model Difference: N/A

Report Number: E2/2021/C0069

FCC ID RAS-MT7922A22M

Issue Date: February 8, 2022

Date of Test: December 20, 2021 ~ January 20, 2022

Date of EUT Received: December 10, 2021



Approved By _____

Vito Pei

We hereby certify that:

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

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/C0069	00	Original	February 8, 2022	Yuri Tsai	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	
Model No. of FCC Host:	N22C2
Model No. of BT/WLAN Module:	MT7922A22M
Class II Permissive change:	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card INSTALLED IN Notebook Computer
Power Supply:	15.4Vdc from Rechargeable Li-ion Battery or 19.5Vdc from AC/DC Adapter

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	1024QAM for OFDMA in 802.11ax only
Transition Rate:	802.11 a: 6 - 54 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
	802.11 ax_160MHz: 68 - 2402 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PIFA	WNC	Main	81EABS15.G09 (DC33002NN00)	5925~6425	1.41	4.44
				6425~6525	1.28	4.38
				6525~6875	0.99	3.73
				6875~7125	1.88	4.21
PIFA	WNC	Aux	81EABS15.G10 (DC33002NN10)	5925~6425	1.45	4.44
				6425~6525	1.45	4.38
				6525~6875	0.44	3.73
				6875~7125	0.46	4.21

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.

1.4 Rated Power

WLAN 6E			
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
a 20MHz	5955~6415	24	3.63 dBm
	6435~6515	5	3.97 dBm
	6535~6875	18	3.87 dBm
	6895~7115	12	4.01 dBm

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WLAN 6E			
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
ax_HE 20MHz	5955~6415	24	4.11 dBm
	6435~6515	5	4.72 dBm
	6535~6875	18	4.65 dBm
	6895~7115	12	4.82 dBm
ax_HE 40MHz	5965~6405	12	6.37 dBm
	6445~6525	3	6.75 dBm
	6565~6845	8	6.38 dBm
	6885~7085	6	6.86 dBm
ax_HE 80MHz	5985~6385	6	9.90 dBm
	6465	1	10.10 dBm
	6545~6865	5	10.13 dBm
	6945~7025	2	10.09 dBm
ax_HE 160MHz	6025~6345	3	12.37 dBm
	6505	1	12.88 dBm
	6665~6825	2	12.00 dBm
	6985	1	12.58 dBm

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.7 Test Facility

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

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

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Test (RF)

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

2.3.2 Radiated Emissions

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

2.4 Measurement Results Explanation Example

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

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

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

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2.4.2 For all conducted test items:

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

2.5 Test Configuration

Fig. 2-1 Radiated Emission Configuration



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



2.6 Control Unit(s)

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

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(a)(4~8)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)(5),(b)(8), (b)(9)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz				UNII-6 6425~6525 MHz											
20MHz		40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025	97	6435	99	6445	103	6465
5	5975	53	6215	11	6005	23	6065	47	6185	101	6455	107	6485	111	6505
9	5995	57	6235	19	6045	39	6145	79	6345	105	6475	109	6495	115	6525
13	6015	61	6255	27	6085	55	6225	71	6305	113	6515				
17	6035	65	6275	35	6125	43	6165	87	6385						
21	6055	69	6295	51	6205										
25	6075	73	6315	59	6245										
29	6095	77	6335	67	6285										
33	6115	81	6355	75	6325										
37	6135	85	6375	83	6365										
41	6155	89	6395	91	6405										
UNII-7 6525~6875 MHz				UNII-8 6875~7125 MHz				20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665	189	6895	187	6885	199	6945
121	6555	157	6735	131	6605	135	6625	175	6825	193	6915	195	6925	207	6985
125	6575	161	6755	139	6645	151	6705			197	6935	203	6965		
129	6595	165	6775	147	6685	167	6785			201	6955	211	7005		
133	6615	169	6795	155	6725	183	6865			205	6975	219	7045		
137	6635	173	6815	163	6765					209	6995	227	7085		
141	6655	177	6835	171	6805					213	7015				
145	6675	181	6855	179	6845					217	7035				
149	6695	185	6875							221	7055				
										225	7075				
										229	7095				
										233	7115				

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4.2 The Worst Test Modes and Channel Details

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

The given UE is pre-scanned among below modes.

Modulation	Transmission Chain					Single Transmission Spatial	Multiple Transmission Spatial
	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX		
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX	
<input type="checkbox"/> 802.11 n	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> MIMO	
<input type="checkbox"/> 802.11 ac	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input 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 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, highest 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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RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955-6415	1 to 93	45	OFDM	6	2TX
	6435-6515	97 to 113	105			
	6535-6875	117 to 185	181			
	6895-7115	189 to 233	213			
802.11ax_HE160	6025-6345	15 to 79	47	OFDMA	MCS0	Mimo
	6505	111	111			
	6665-6825	143 to 175	143			
	6985	207	207			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955-6415	1 to 93	1,45,93	OFDM	6	2TX
	6435-6515	97 to 113	97,105,113			
	6535-6875	117 to 185	117,153,181,185			
	6895-7115	189 to 233	213,233			

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955-6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Mimo
	6435-6515	97 to 113	97,105,113				
	6535-6875	117 to 185	117,153,181,185				
	6895-7115	189 to 233	213,233				
802.11ax_HE40	5965-6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	Mimo
	6445-6525	99 to 115	99,107,115				
	6565-6845	123 to 179	123,155,179				
	6885-7085	187 to 227	187,211,227				
802.11ax_HE80	5985-6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6465	103	103				
	6545-6865	119 to 183	119,135,151,167,183				
	6945-7025	199 to 215	199,215				
802.11ax_HE160	6025-6345	15 to 79	15,47,79	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6505	111	111				
	6665-6825	143 to 175	143,175				
	6985	207	207				

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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CONDUCTED TEST

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955-6415	1 to 93	1,45,93	OFDM	6	2TX
	6435-6515	97 to 113	97,105,113			
	6535-6875	117 to 185	117,153,181,185			
	6895-7115	189 to 233	213,233			

CONDUCTED TEST

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955-6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Mimo
	6435-6515	97 to 113	97,105,113				
	6535-6875	117 to 185	117,153,181,185				
	6895-7115	189 to 233	213,233				
802.11ax_HE40	5965-6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	Mimo
	6445-6525	99 to 115	99,107,115				
	6565-6845	123 to 179	123,155,179				
	6885-7085	187 to 227	187,211,227				
802.11ax_HE80	5985-6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6465	103	103				
	6545-6865	119 to 183	119,135,151,167,183				
	6945-7025	199 to 215	199,215				
802.11ax_HE160	6025-6345	15 to 79	15,47,79	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6505	111	111				
	6665-6825	143 to 175	143,175				
	6985	207	207				

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
Output Power measurement	+/-	1	dB

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64	dB
	+/-	4.93	dB
	+/-	4.81	dB
	+/-	4.52	dB
Polarization: Horizontal	+/-	2.64	dB
	+/-	4.45	dB
	+/-	4.81	dB
	+/-	4.52	dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022
Coaxial Cables	Woken	00100A1F1A185C	RF87	11/18/2021	11/17/2022
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Meter	Anritsu	ML2496A	1326001	08/12/2021	08/11/2022

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

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6.2 Radiated Measurement

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.LINDGREN	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
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
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
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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7 MAXIMUM OUTPUT POWER

7.1 Standard Applicable

7.1.1 Duty Cycle

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

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

7.1.2 Output Power

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.
For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
- (8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

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EUT CATEGORY		Equipment Class	§15.407(a)
<input type="checkbox"/>	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
<input type="checkbox"/>	indoor Access Point	6ID	EIRP < 30dBm
<input type="checkbox"/>	Subordinate Device	6PP	EIRP < 30dBm
<input type="checkbox"/>	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
<input checked="" type="checkbox"/>	Indoor Client	6XD	EIRP < 24dBm
<input type="checkbox"/>	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized trans-mit power
<input type="checkbox"/>	Dual Client	6CD	Compliance both indoor clinet and standard client limit

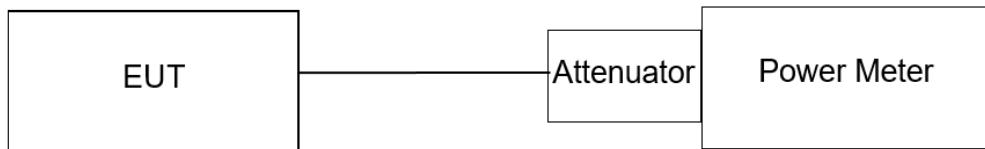
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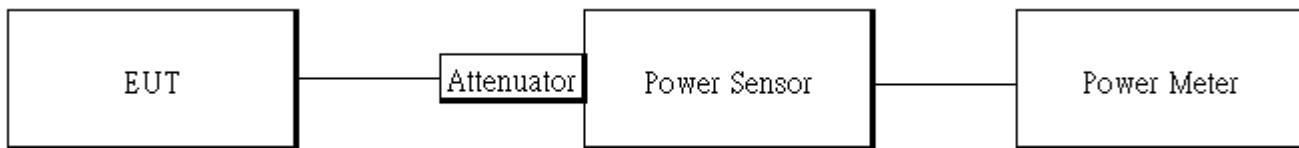
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



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.

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

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.

7.3 Measurement Procedure

7.3.1 Duty Cycle

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

7.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.

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

7.4 Measurement Result

7.4.1 Conducted output power

802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	0.36	0.07	3.36	4.44	7.798	24	PASS
45	6175	0.25	0.28	3.41	4.44	7.845	24	PASS
93	6415	0.51	0.46	3.63	4.44	8.065	24	PASS
97	6435	0.32	0.04	3.32	4.38	7.703	24	PASS
105	6475	1.08	0.57	3.97	4.38	8.353	24	PASS
113	6515	0.91	0.45	3.83	4.38	8.206	24	PASS
117	6535	0.30	0.52	3.55	3.73	7.282	24	PASS
153	6715	0.60	0.35	3.62	3.73	7.347	24	PASS
181	6855	0.31	0.39	3.49	3.73	7.220	24	PASS
185	6875(U-NII 7)	-2.26	-2.31	0.73	3.73	4.455	24	PASS
185	6875(U-NII 8)	-5.27	-2.31	-0.53	4.21	3.677	24	PASS
213	7015	0.74	1.00	4.01	4.21	8.222	24	PASS
233	7115	0.41	0.52	3.61	4.21	7.816	24	PASS

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802.11ax_20_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	0.01	0.46	4.11	4.44	8.551	24	PASS
		26/0	-8.14	-8.01	4.20	4.44	0.236	24	PASS
		106/53	-3.12	-2.77	0.93	4.44	5.369	24	PASS
45	6175	full	0.32	0.15	4.11	4.44	8.546	24	PASS
93	6415	full	-0.15	0	3.80	4.44	8.236	24	PASS
		26/8	-8.11	-8.45	4.41	4.44	0.034	24	PASS
		106/54	-2.58	-2.81	1.18	4.44	5.617	24	PASS
97	6435	full	0.71	0.61	4.53	4.38	8.911	24	PASS
		26/0	-8.03	-8.53	4.40	4.38	-0.023	24	PASS
		106/53	-2.39	-2.8	1.28	4.38	5.660	24	PASS
105	6475	full	0.93	0.52	4.60	4.38	8.980	24	PASS
113	6515	full	1.01	0.68	4.72	4.38	9.098	24	PASS
117	6535	full	0.01	0.05	3.90	3.73	7.630	24	PASS
		26/0	-8.05	-8.35	4.33	3.73	-0.597	24	PASS
		106/53	-2.66	-2.76	1.16	3.73	4.891	24	PASS
153	6715	full	-0.07	-0.42	3.63	3.73	7.359	24	PASS
181	6855	full	-0.32	0.14	3.79	3.73	7.516	24	PASS
		26/8	-8.12	-8.44	4.41	3.73	-0.677	24	PASS
		106/54	-2.83	-2.6	1.16	3.73	4.887	24	PASS
185	6875(U-NII 7)	full	-2.43	-2.03	0.78	3.73	4.515	24	PASS
185	6875(U-NII 8)	full	-5.44	-2.03	0.40	4.21	3.811	24	PASS
213	7015	full	0.66	1.22	4.82	4.21	9.029	24	PASS
233	7115	full	-3.3	-2.81	0.82	4.21	5.032	24	PASS
		26/8	-13.12	-12.25	8.79	4.21	-4.583	24	PASS
		52/40	-8.92	-8.31	4.73	4.21	-0.524	24	PASS
		106/54	-7.03	-6.28	2.77	4.21	1.441	24	PASS

802.11ax_40_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	1.42	1.57	5.36	4.44	9.796	24	PASS
43	6165	full	2.37	2.57	6.33	4.44	10.771	24	PASS
91	6405	full	2.47	2.55	6.37	4.44	10.810	24	PASS
99	6445	full	2.99	2.79	6.75	4.38	11.131	24	PASS
107	6485	full	2.97	2.59	6.64	4.38	11.024	24	PASS
115	6525(U-NII 6)	full	0.15	-0.44	2.88	4.38	7.255	24	PASS
115	6525(U-NII 7)	full	-2.86	-0.44	1.53	3.73	5.256	24	PASS
123	6565	full	2.39	2.65	6.38	3.73	10.112	24	PASS
155	6725	full	2.38	2.48	6.29	3.73	10.021	24	PASS
179	6845	full	2.14	2.33	6.10	3.73	9.826	24	PASS
187	6885(U-NII 7)	full	-3.40	-3.48	0.43	3.73	3.299	24	PASS
187	6885(U-NII 8)	full	-4.55	1.67	2.60	4.21	6.812	24	PASS
211	7005	full	2.63	3.21	6.79	4.21	11.000	24	PASS
227	7085	full	2.82	3.17	6.86	4.21	11.069	24	PASS

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802.11ax_80_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	5.63	5.11	9.29	4.44	13.728	24	PASS
39	6145	full	5.1	5.29	9.11	4.44	13.546	24	PASS
87	6385	full	5.85	6.12	9.90	4.44	14.337	24	PASS
103	6465	full	6.61	5.72	10.10	4.38	14.478	24	PASS
119	6545(U-NII 6)	full	0.40	-0.66	2.91	4.38	7.291	24	PASS
119	6545(U-NII 7)	full	-0.79	4.36	5.52	3.73	9.250	24	PASS
135	6625	full	6.07	6.36	10.13	3.73	13.858	24	PASS
151	6705	full	5.56	4.97	9.19	3.73	12.915	24	PASS
167	6785	full	5.43	4.92	9.09	3.73	12.823	24	PASS
183	6865(U-NII 7)	full	3.29	3.81	6.57	3.73	10.298	24	PASS
183	6865(U-NII 8)	full	-1.04	1.50	3.43	4.21	7.636	24	PASS
199	6945	full	5.62	6.67	10.09	4.21	14.297	24	PASS
215	7025	full	5.17	5.29	9.14	4.21	13.351	24	PASS

802.11ax_160_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	8.14	8.16	12.06	4.44	16.497	24	PASS
47	6185	full	8.64	8.27	12.37	4.44	16.806	24	PASS
79	6345	full	8.77	8.11	12.36	4.44	16.799	24	PASS
111	6505(U-NII 6)	full	7.20	6.71	9.97	4.38	14.348	24	PASS
111	6505(U-NII 7)	full	2.89	4.41	6.73	3.73	10.459	24	PASS
143	6665	full	8.05	8.14	12.00	3.73	15.732	24	PASS
175	6825(U-NII 7)	full	6.49	6.35	9.43	3.73	13.158	24	PASS
175	6825(U-NII 8)	full	-1.00	-0.30	2.38	4.21	6.588	24	PASS
207	6985	full	8.79	8.56	12.58	4.21	16.793	24	PASS

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8 UNDESIRABLE RADIATED EMISSIONS

8.1 Standard Applicable

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz and below 1 GHz must comply with the general field strength limits set forth in §15.209.

The provisions of §15.205 apply to intentional radiators operating under this section.

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz) AV: -27 (dBm/MHz)	Peak: 88.2 (dB μ V/m) AV: 68.2 (dB μ V/m)

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.77.$$

$$E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.77$$

Below 1G and restricted limit

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:

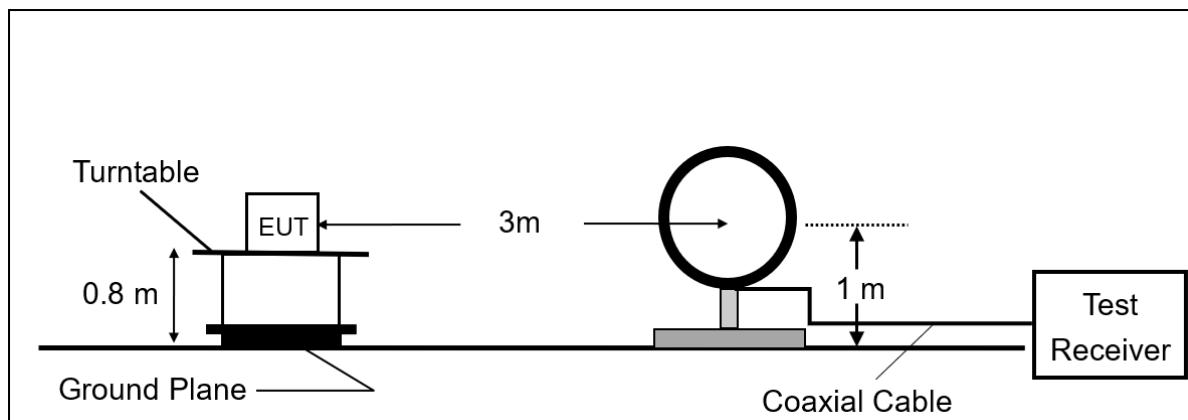
1. The lower limit shall apply at the transition frequencies.

8.2 Test Setup

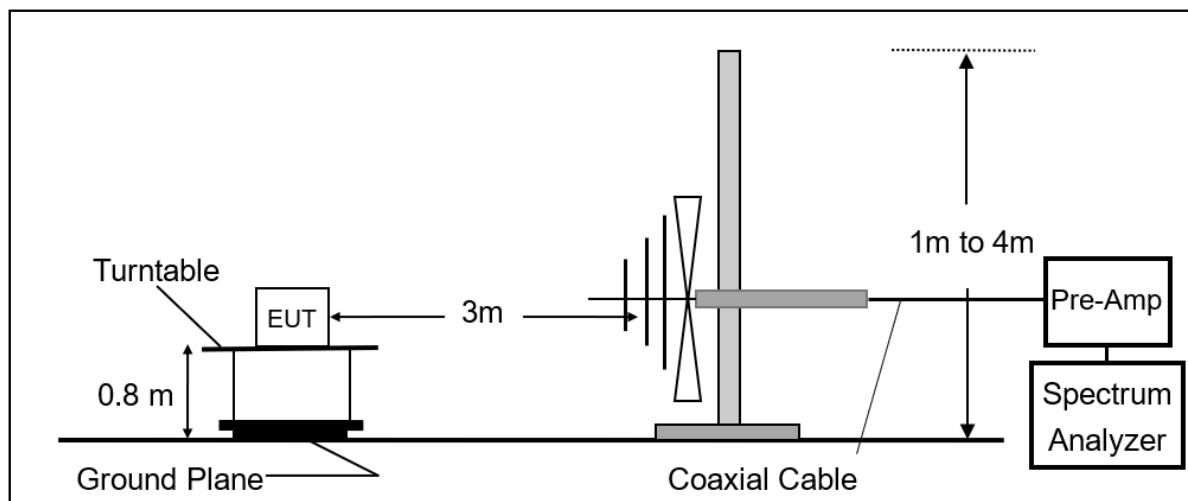
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.

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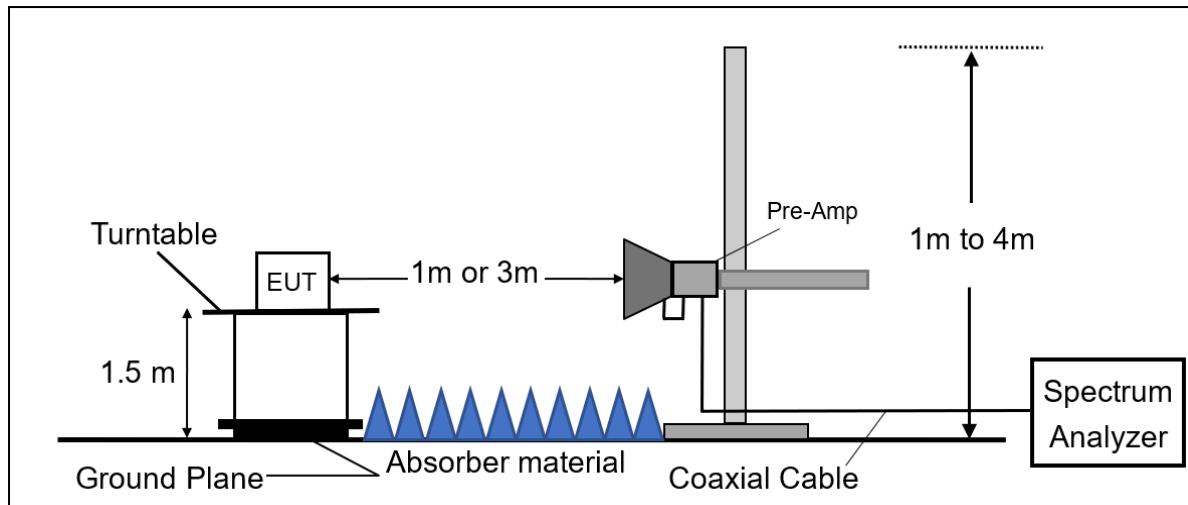
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



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8.3 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.

8.4 Field Strength Calculation

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

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

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

Actual $FS(dB\mu V/m) = SPA \cdot Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

8.5 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result

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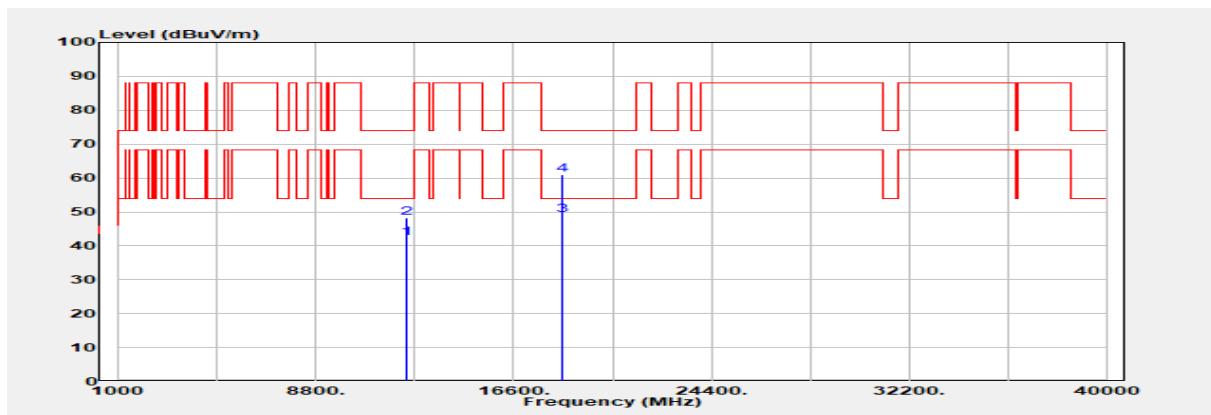
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which was 20dB lower than the limit per 15.31(o) was not reported.

8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Report Number	:E2/2021/C0069	Test Site	:SAC G
Operation Mode	:802.11a	Test Date	:2022-01-10
Test Frequency	:6175 MHz	Temp./Humi.	:24.4/54
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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12350.000	Average	32.13	10.21	42.33	54.00	-11.67
12350.000	Peak	38.13	10.21	48.34	74.00	-25.66
18525.000	Average	30.13	19.03	49.15	54.00	-4.85
18525.000	Peak	41.95	19.03	60.97	74.00	-13.03

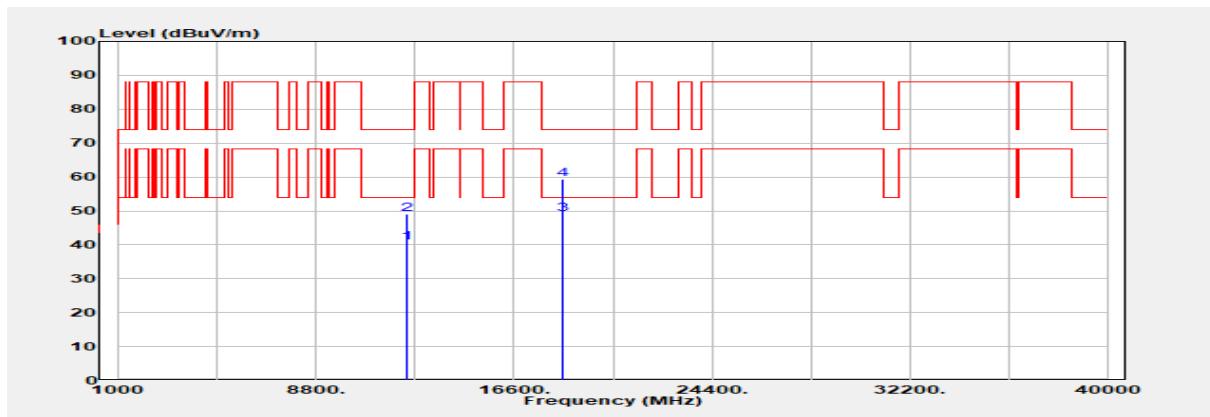
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :6175 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-10
Temp./Humi. :24.4/54
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12350.000	Average	30.51	10.21	40.72	54.00	-13.28
12350.000	Peak	38.87	10.21	49.08	74.00	-24.92
18525.000	Average	30.15	19.03	49.18	54.00	-4.82
18525.000	Peak	40.23	19.03	59.26	74.00	-14.74

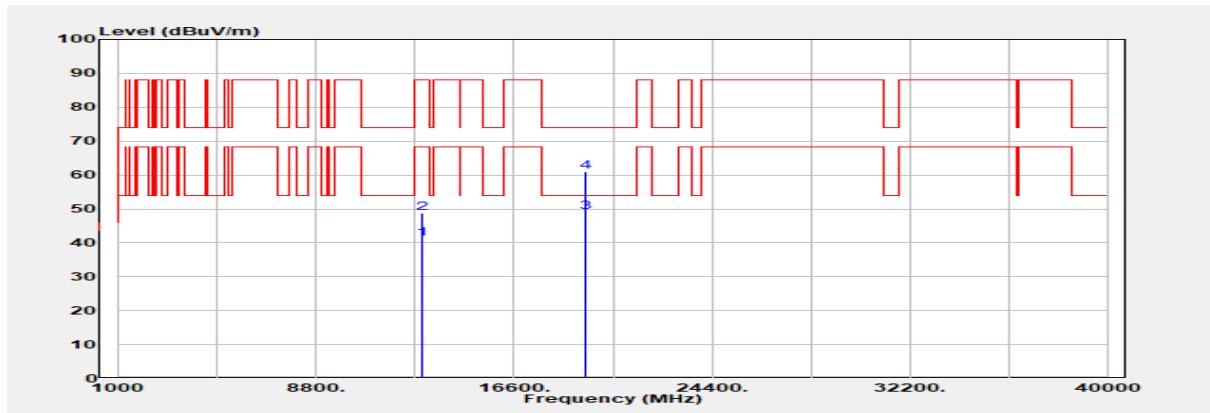
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :6475 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-10
Temp./Humi. :24.4/54
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12950.000	Average	30.15	11.16	41.32	68.20	-26.88
12950.000	Peak	37.62	11.16	48.78	88.20	-39.42
19425.000	Average	29.87	19.05	48.92	54.00	-5.08
19425.000	Peak	41.94	19.05	60.99	74.00	-13.01

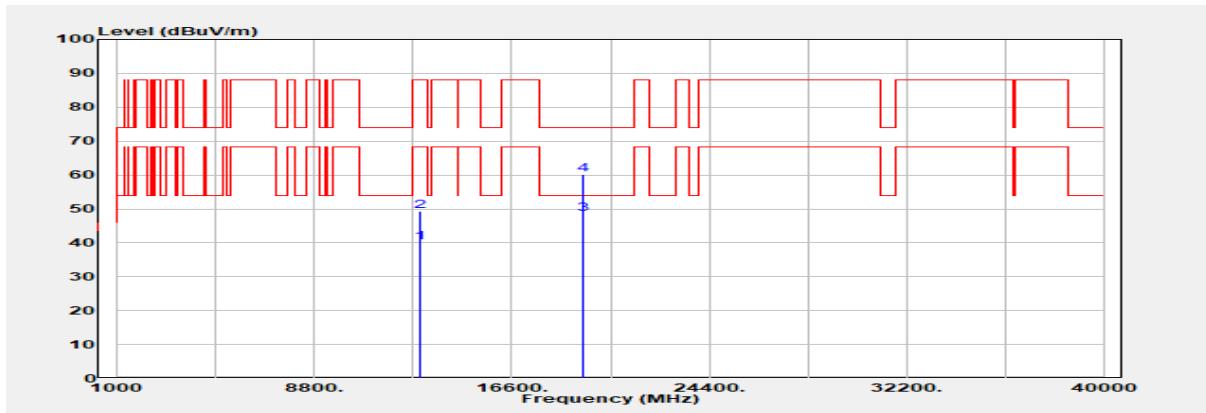
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :6475 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-10
Temp./Humi. :24.4/54
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12950.000	Average	28.99	11.16	40.15	68.20	-28.05
12950.000	Peak	38.14	11.16	49.31	88.20	-38.89
19425.000	Average	29.54	19.05	48.59	54.00	-5.41
19425.000	Peak	41.09	19.05	60.14	74.00	-13.86

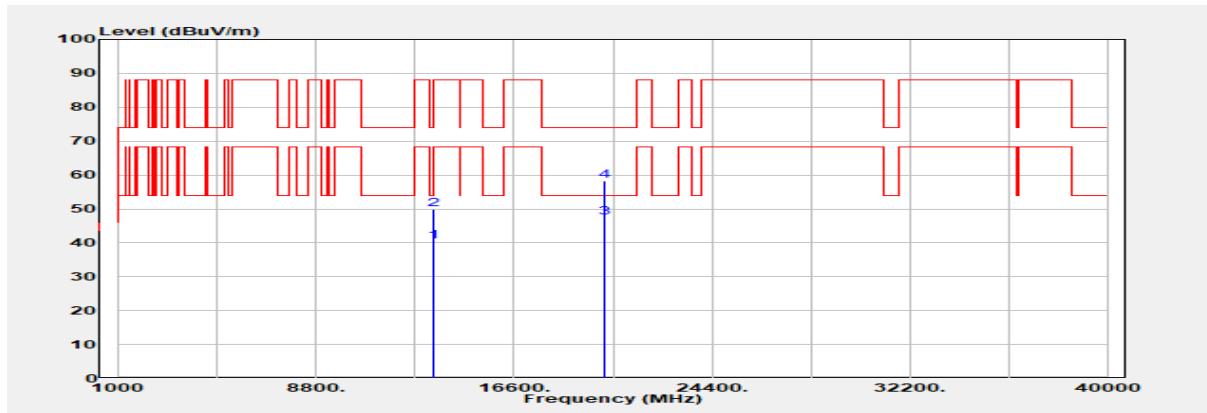
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :6715 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-10
Temp./Humi. :24.4/54
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13430.000	Average	29.54	10.75	40.29	68.20	-27.91
13430.000	Peak	39.00	10.75	49.75	88.20	-38.45
20145.000	Average	30.01	17.40	47.42	54.00	-6.58
20145.000	Peak	40.78	17.40	58.18	74.00	-15.82

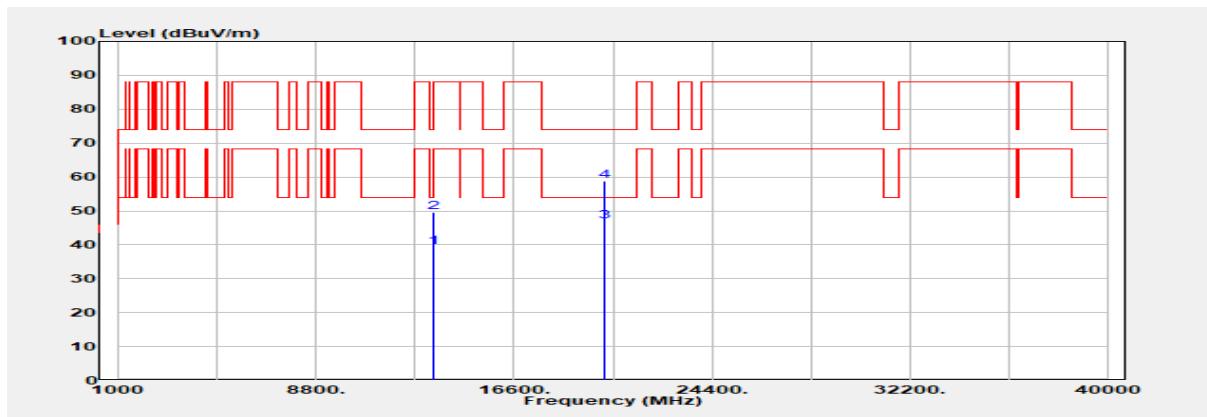
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :6715 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-10
Temp./Humi. :24.4/54
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13430.000	Average	28.55	10.75	39.30	68.20	-28.90
13430.000	Peak	38.87	10.75	49.62	88.20	-38.58
20145.000	Average	546.92	-500.00	46.92	54.00	-7.08
20145.000	Peak	558.72	-500.00	58.72	74.00	-15.28

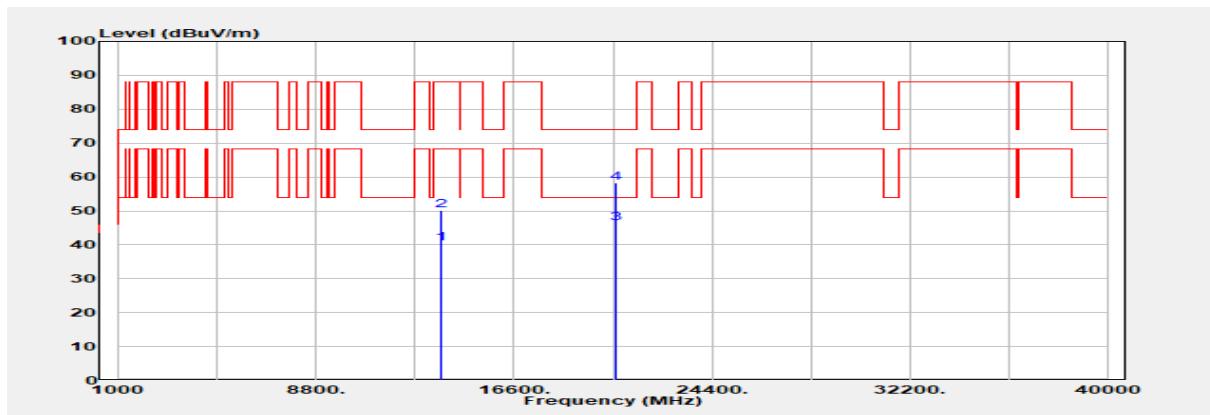
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :6875 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-10
Temp./Humi. :24.4/54
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13750.000	Average	30.13	10.21	40.33	68.20	-27.87
13750.000	Peak	39.89	10.21	50.09	88.20	-38.11
20625.000	Average	29.51	16.82	46.33	54.00	-7.67
20625.000	Peak	41.33	16.82	58.15	74.00	-15.85

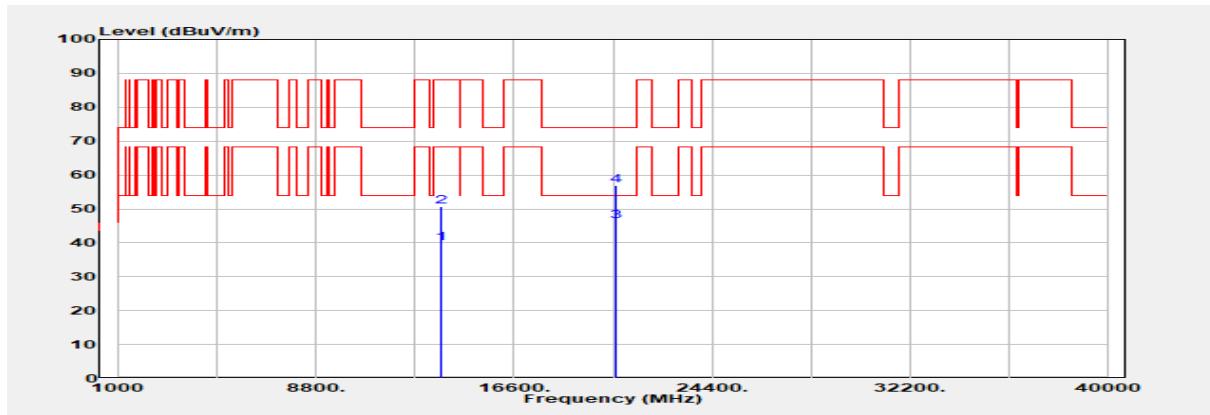
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :6875 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-10
Temp./Humi. :24.4/54
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13750.000	Average	29.54	10.21	39.75	68.20	-28.45
13750.000	Peak	40.48	10.21	50.69	88.20	-37.51
20625.000	Average	546.46	-500.00	46.46	54.00	-7.54
20625.000	Peak	556.90	-500.00	56.90	74.00	-17.10

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8.6.2 Band edge falling to restricted band

Report Number :E2/2021/C0069

Test Site :SAC G

Operation Mode :802.11a

Test Date :2021-12-27

Test Frequency :5955 MHz

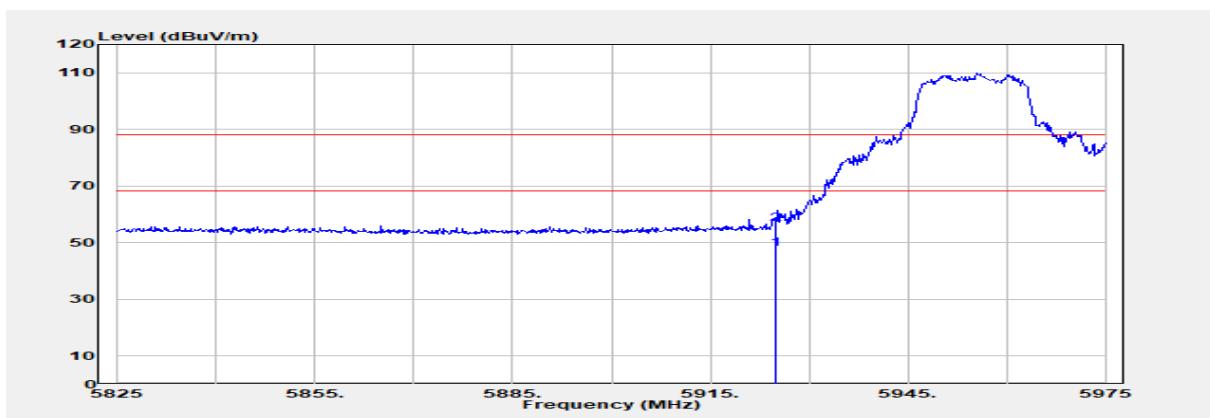
Temp./Humi. :21.2/57

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5925.000	Average	43.43	4.36	47.79	68.20	-20.41
5925.000	Peak	52.11	4.36	56.46	88.20	-31.74

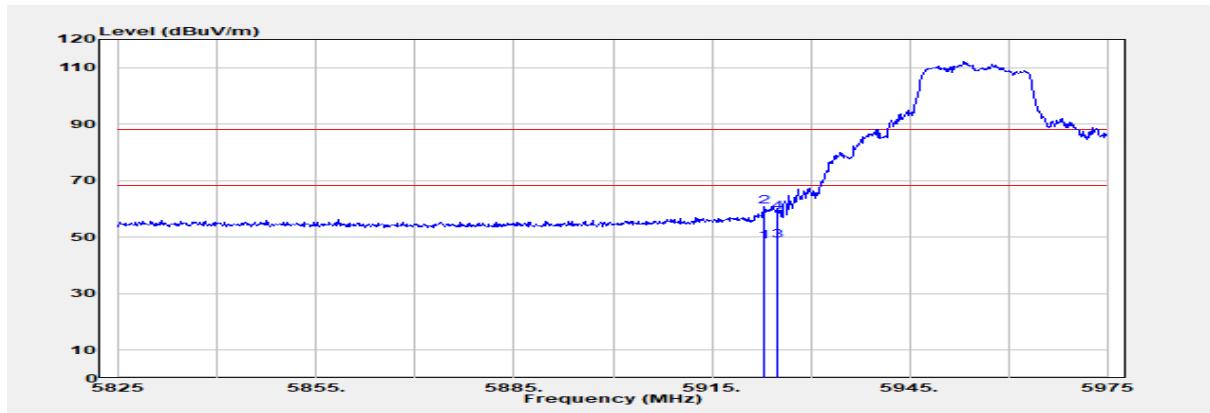
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Report Number :E2/2021/C0069
 Operation Mode :802.11a
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-12-27
 Temp./Humi. :21.2/57
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5922.800	Average	44.16	4.36	48.52	68.20	-19.68
5922.800	Peak	56.45	4.36	60.81	88.20	-27.39
5925.000	Average	44.37	4.36	48.72	68.20	-19.48
5925.000	Peak	54.52	4.36	58.87	88.20	-29.33

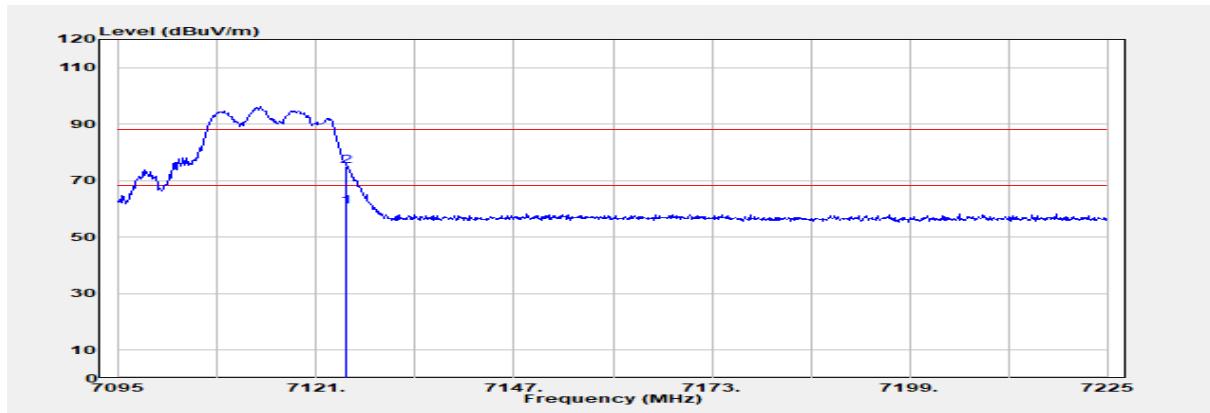
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :7115 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	53.55	7.39	60.93	68.20	-7.27
7125.000	Peak	67.73	7.39	75.12	88.20	-13.08

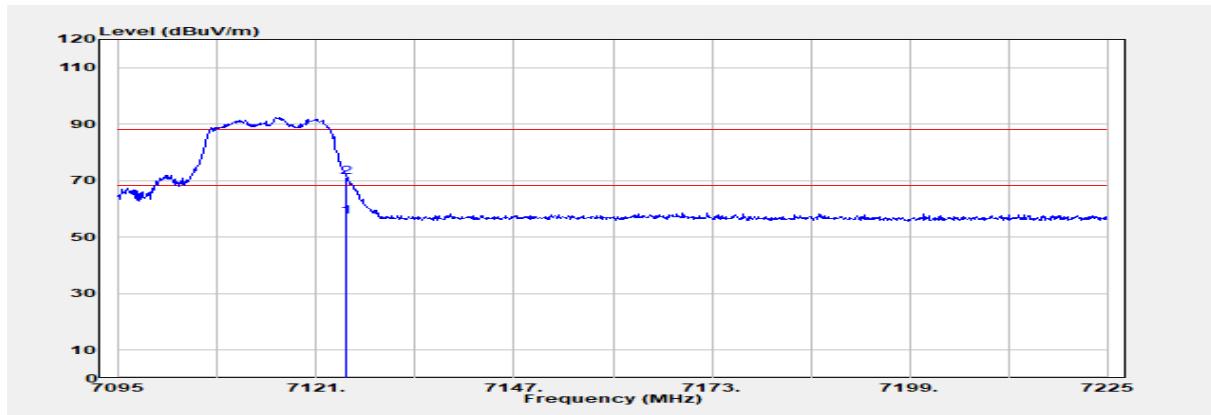
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Report Number :E2/2021/C0069
Operation Mode :802.11a
Test Frequency :7115 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Jason Yeh



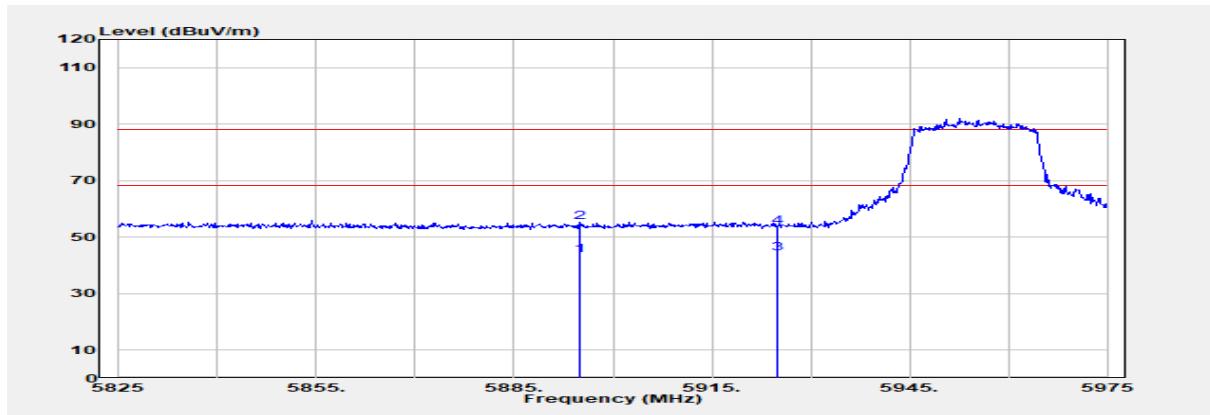
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	49.74	7.39	57.13	68.20	-11.07
7125.000	Peak	63.74	7.39	71.12	88.20	-17.08

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Report Number :E2/2021/C0069
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-12-27
 Temp./Humi. :21.2/57
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5894.900	Average	39.70	4.02	43.72	68.20	-24.48
5894.900	Peak	51.26	4.02	55.28	88.20	-32.92
5925.000	Average	39.72	4.36	44.07	68.20	-24.13
5925.000	Peak	49.36	4.36	53.71	88.20	-34.49

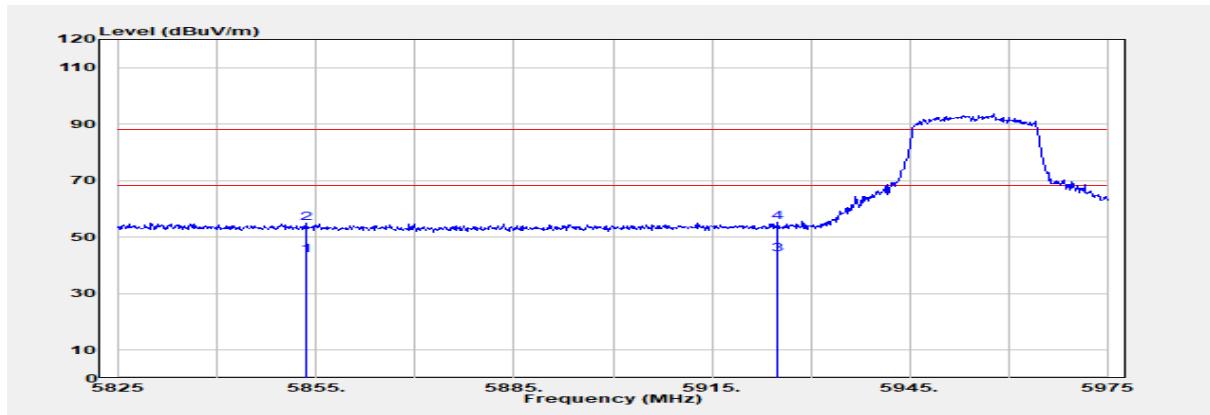
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Report Number :E2/2021/C0069
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-12-27
 Temp./Humi. :21.2/57
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5853.500	Average	39.50	4.24	43.74	68.20	-24.46
5853.500	Peak	50.84	4.24	55.08	88.20	-33.12
5925.000	Average	39.70	4.36	44.06	68.20	-24.14
5925.000	Peak	50.85	4.36	55.21	88.20	-32.99

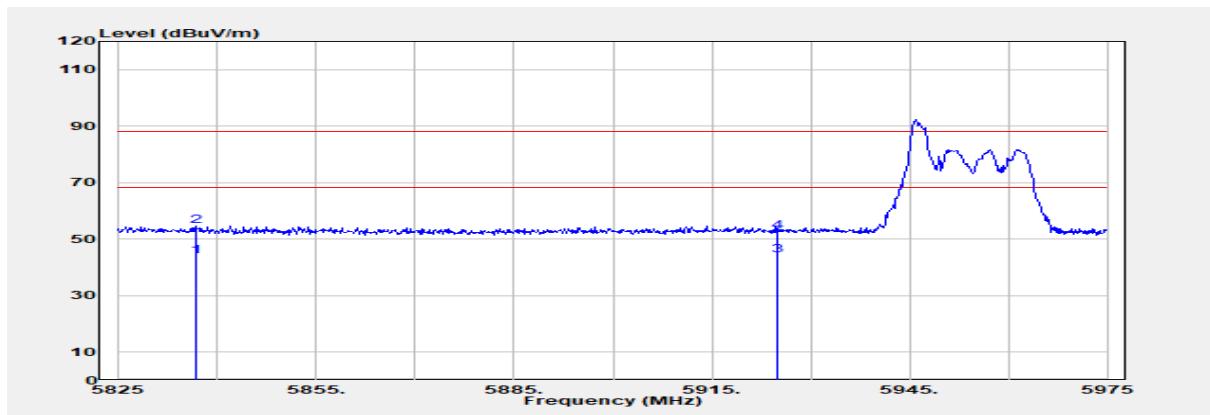
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 26/0
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5836.700	Average	39.54	4.38	43.91	68.20	-24.29
5836.700	Peak	50.27	4.38	54.64	88.20	-33.56
5925.000	Average	39.90	4.36	44.25	68.20	-23.95
5925.000	Peak	48.34	4.36	52.69	88.20	-35.51

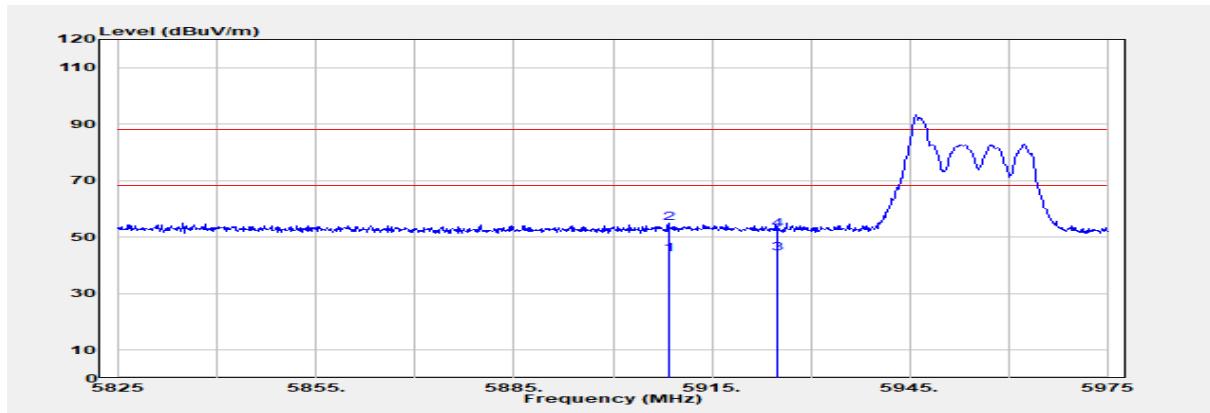
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 26/0
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5908.400	Average	39.65	4.34	44.00	68.20	-24.20
5908.400	Peak	50.54	4.34	54.88	88.20	-33.32
5925.000	Average	39.76	4.36	44.11	68.20	-24.09
5925.000	Peak	48.32	4.36	52.68	88.20	-35.52

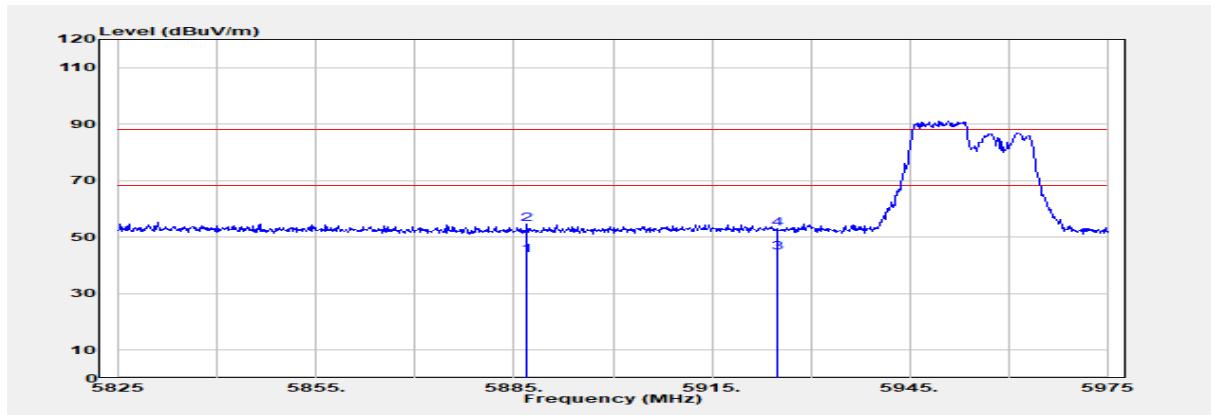
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 106/53
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5886.950	Average	39.49	3.95	43.44	68.20	-24.76
5886.950	Peak	50.52	3.95	54.48	88.20	-33.72
5925.000	Average	40.06	4.36	44.41	68.20	-23.79
5925.000	Peak	48.49	4.36	52.85	88.20	-35.35

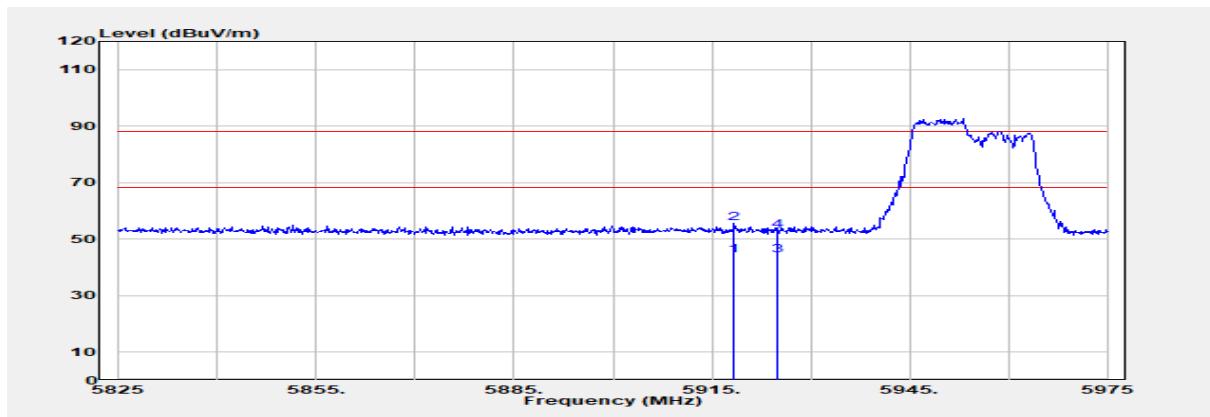
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 106/53
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5918.450	Average	39.91	4.37	44.28	68.20	-23.92
5918.450	Peak	51.20	4.37	55.57	88.20	-32.63
5925.000	Average	39.78	4.36	44.14	68.20	-24.06
5925.000	Peak	48.64	4.36	53.00	88.20	-35.20

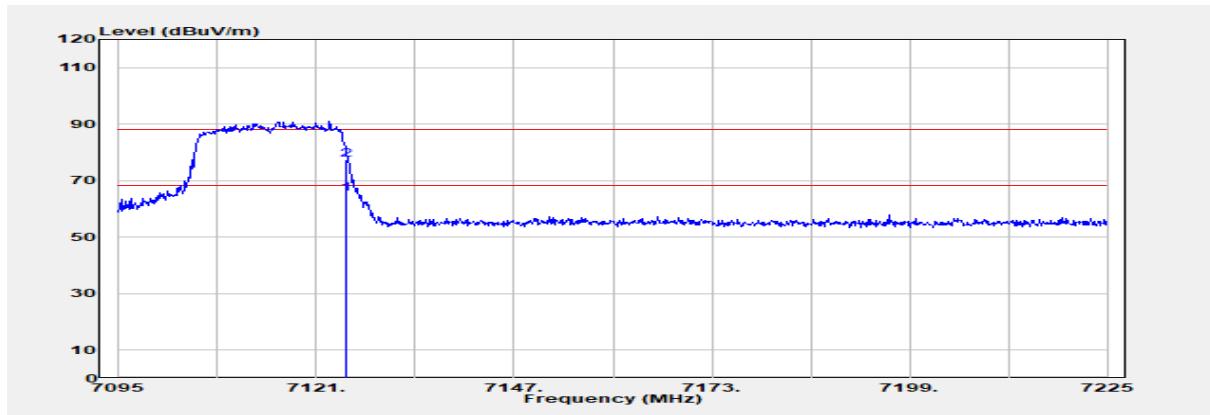
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	57.85	7.39	65.24	68.20	-2.96
7125.000	Peak	70.05	7.39	77.44	88.20	-10.76

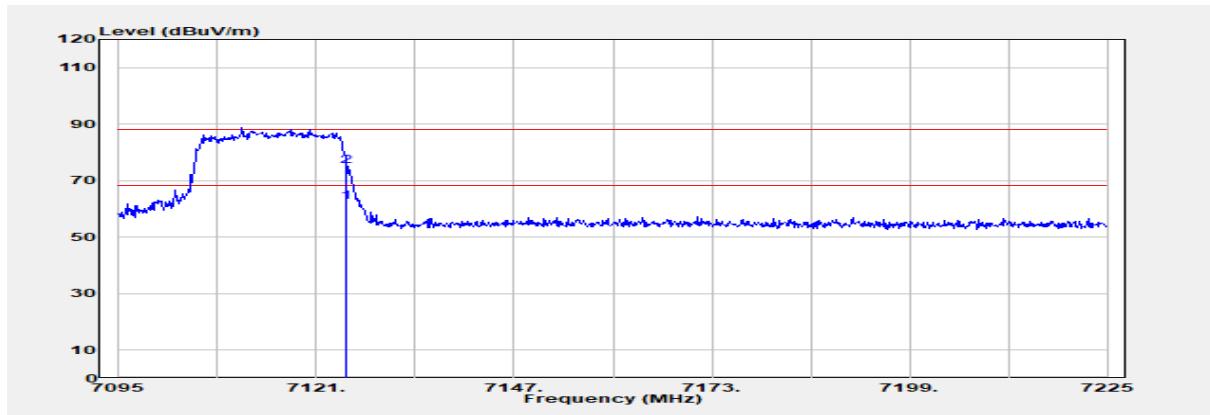
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	55.10	7.39	62.48	68.20	-5.72
7125.000	Peak	67.80	7.39	75.19	88.20	-13.01

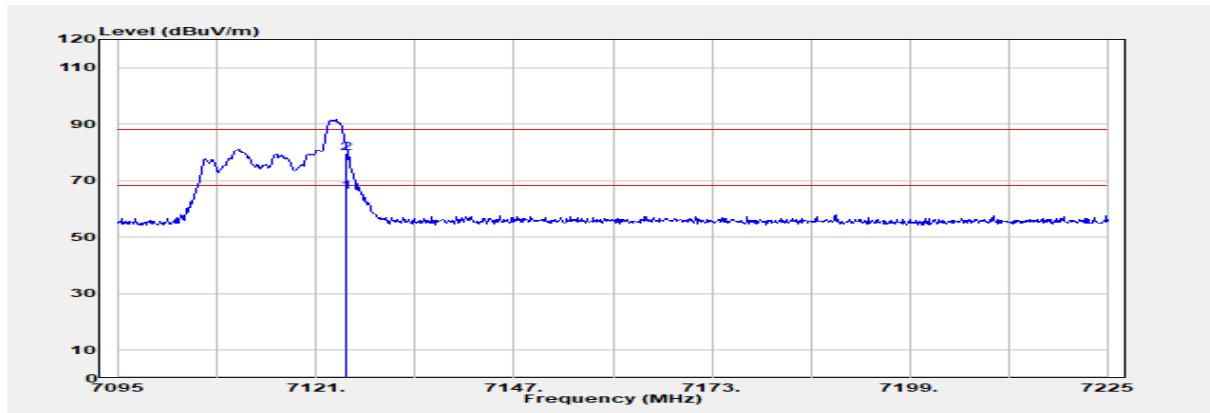
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 26/8
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Jason Yeh



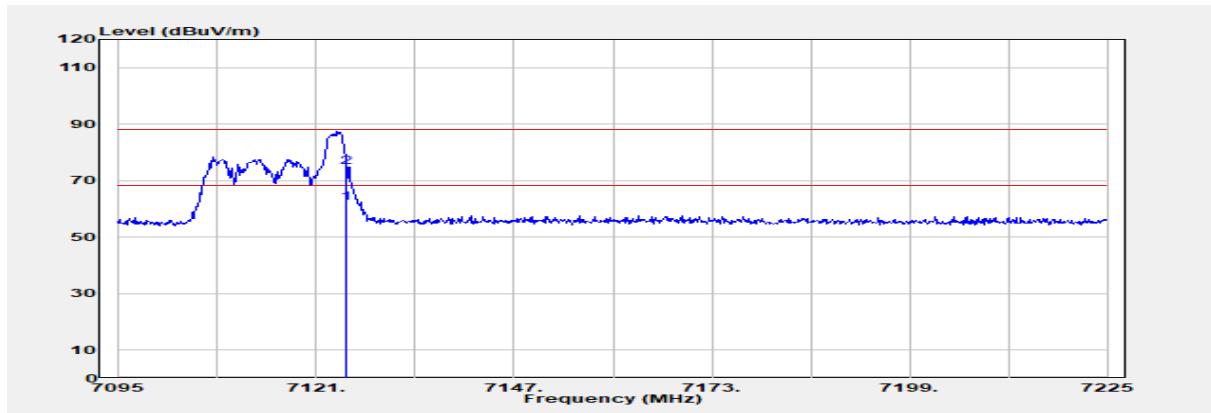
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	58.52	7.39	65.90	68.20	-2.30
7125.000	Peak	72.36	7.39	79.75	88.20	-8.45

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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 26/8
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	54.75	7.39	62.13	68.20	-6.07
7125.000	Peak	67.55	7.39	74.94	88.20	-13.26

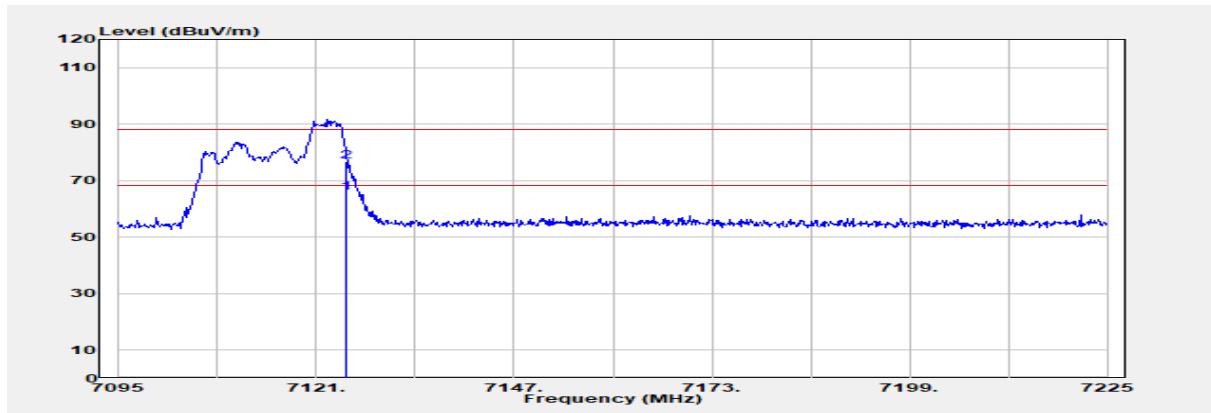
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 52/40
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	58.20	7.39	65.58	68.20	-2.62
7125.000	Peak	69.25	7.39	76.64	88.20	-11.56

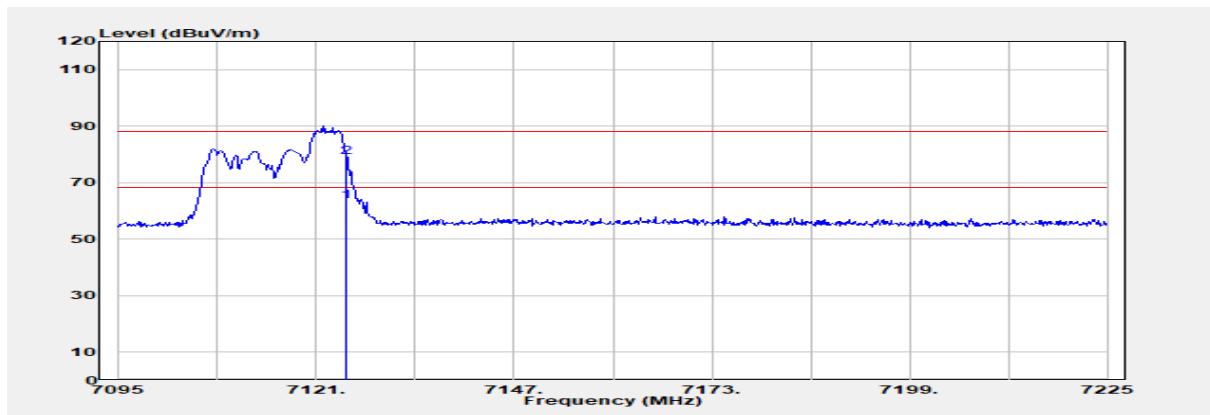
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 52/40
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	55.90	7.39	63.29	68.20	-4.91
7125.000	Peak	71.57	7.39	78.95	88.20	-9.25

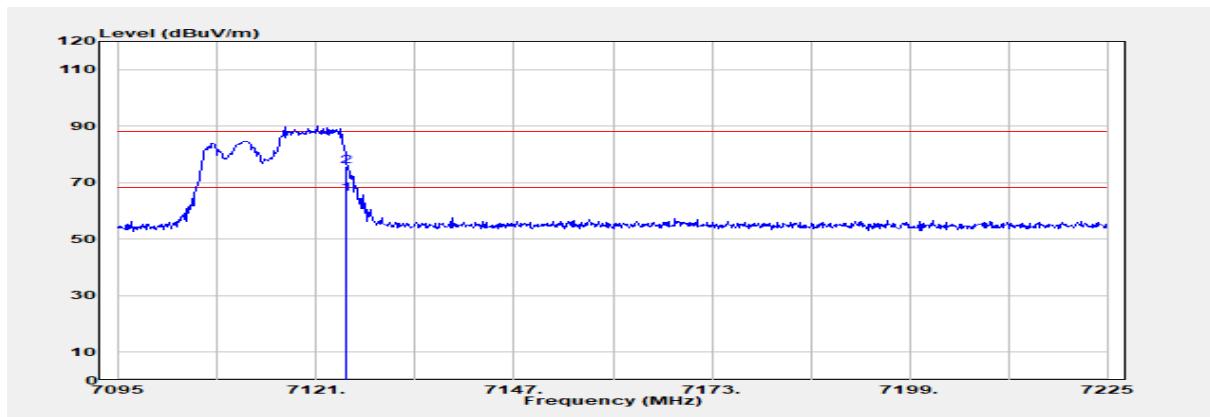
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 106/54
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	58.57	7.39	65.95	68.20	-2.25
7125.000	Peak	68.37	7.39	75.76	88.20	-12.44

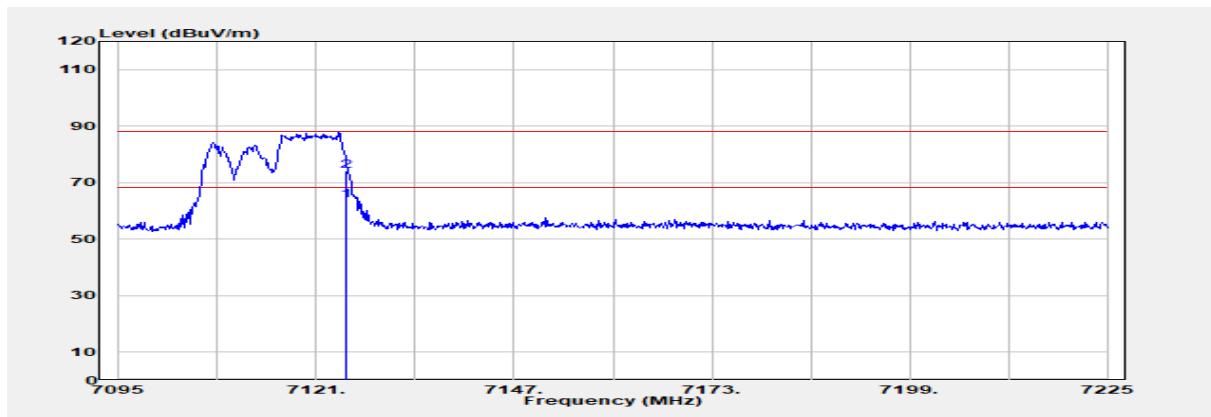
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Report Number :E2/2021/C0069
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 106/54
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	56.42	7.39	63.81	68.20	-4.39
7125.000	Peak	66.84	7.39	74.22	88.20	-13.98

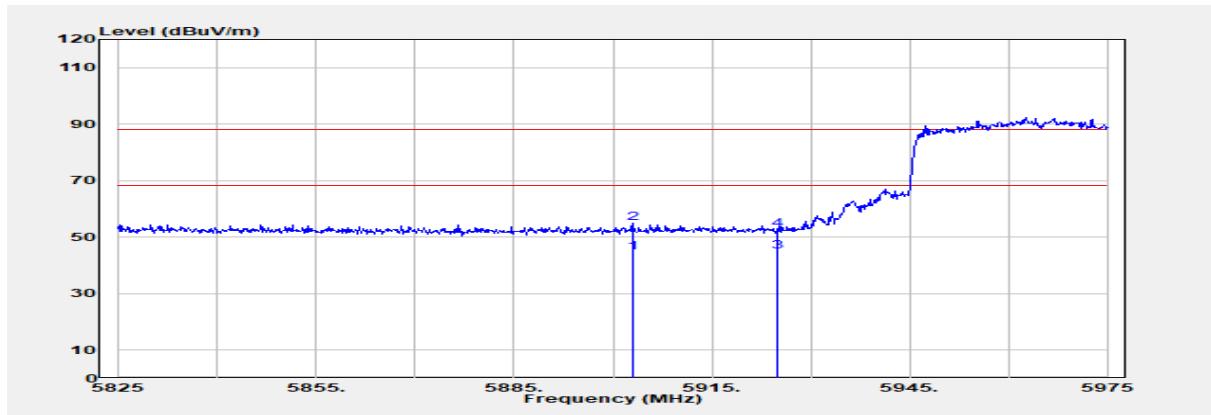
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Report Number :E2/2021/C0069
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5903.000	Average	40.31	4.16	44.47	68.20	-23.73
5903.000	Peak	50.70	4.16	54.85	88.20	-33.35
5925.000	Average	40.58	4.36	44.93	68.20	-23.27
5925.000	Peak	48.30	4.36	52.66	88.20	-35.54

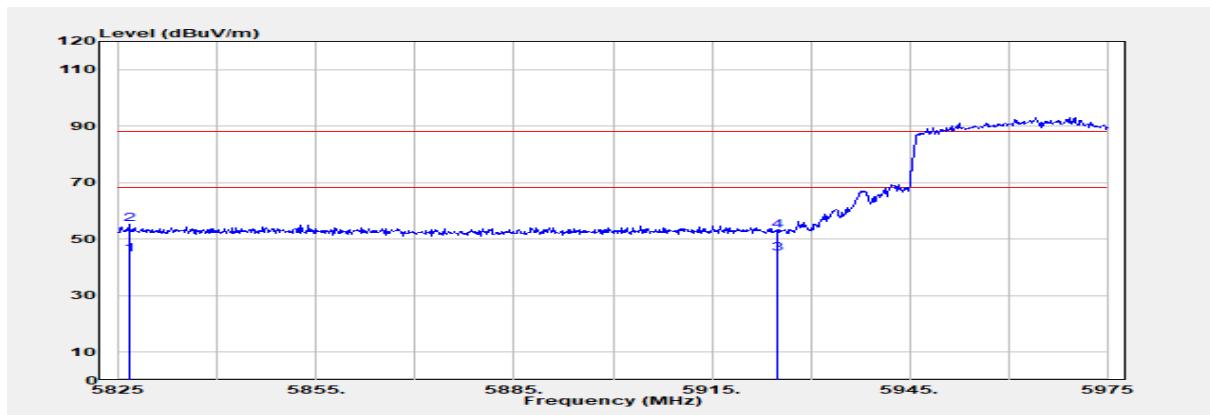
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Report Number :E2/2021/C0069
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5826.500	Average	40.23	4.45	44.68	68.20	-23.52
5826.500	Peak	50.95	4.45	55.40	88.20	-32.80
5925.000	Average	40.46	4.36	44.81	68.20	-23.39
5925.000	Peak	48.63	4.36	52.99	88.20	-35.21

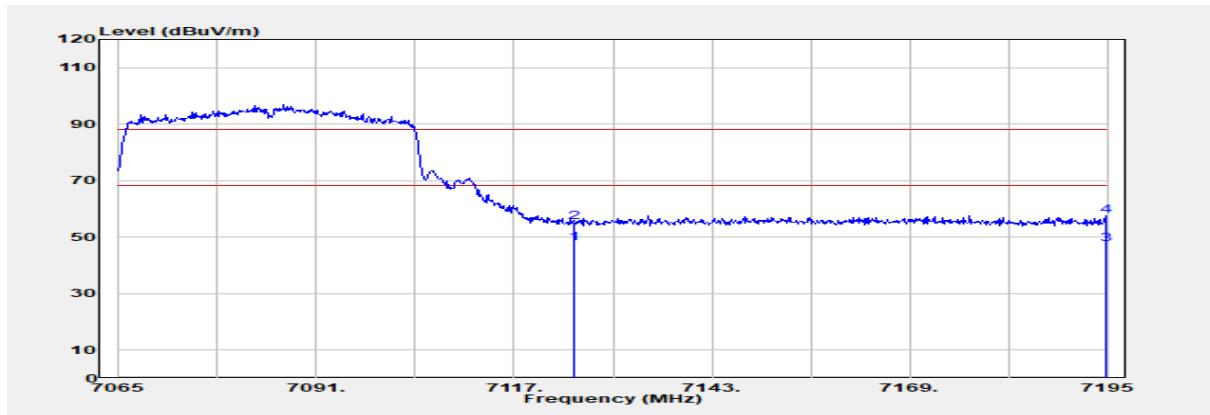
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Report Number :E2/2021/C0069
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :BE CH HIGH RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Quentin Liu



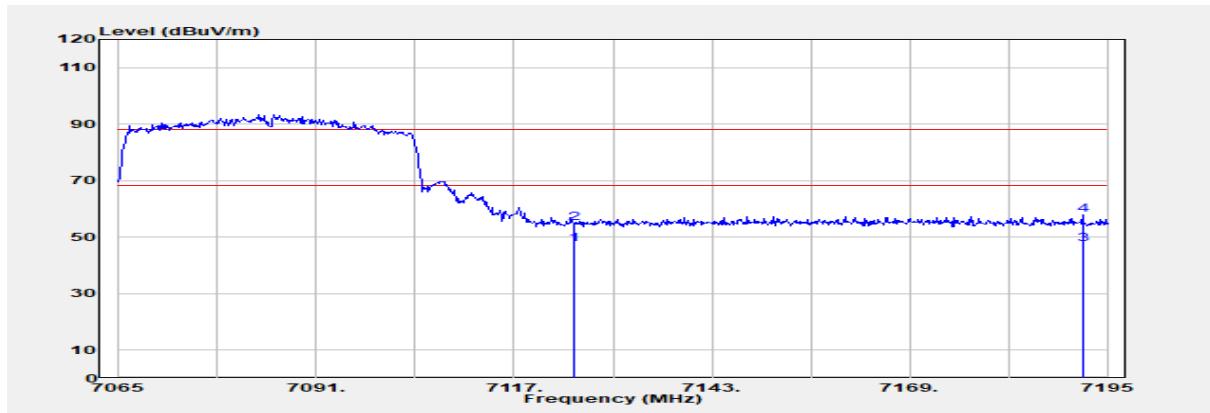
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	40.39	7.39	47.77	68.20	-20.43
7125.000	Peak	48.06	7.39	55.44	88.20	-32.76
7194.740	Average	40.12	7.24	47.36	68.20	-20.84
7194.740	Peak	50.34	7.24	57.58	88.20	-30.62

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Report Number :E2/2021/C0069
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :BE CH HIGH RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	39.94	7.39	47.33	68.20	-20.87
7125.000	Peak	47.73	7.39	55.11	88.20	-33.09
7191.750	Average	40.11	7.30	47.41	68.20	-20.79
7191.750	Peak	50.44	7.30	57.74	88.20	-30.46

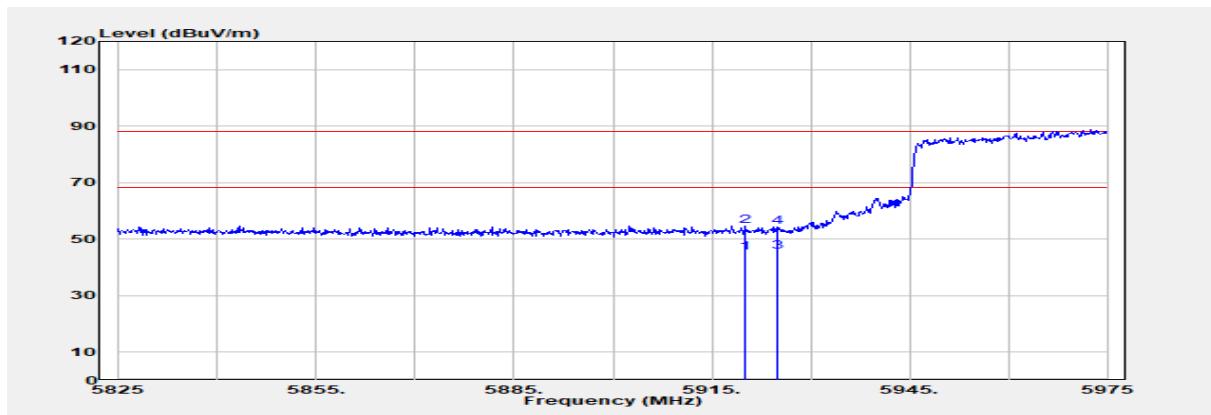
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Report Number :E2/2021/C0069
 Operation Mode :802.11ax80
 Test Frequency :5985 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-12-27
 Temp./Humi. :21.2/57
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5920.100	Average	40.91	4.37	45.28	68.20	-22.92
5920.100	Peak	50.35	4.37	54.72	88.20	-33.48
5925.000	Average	41.13	4.36	45.49	68.20	-22.71
5925.000	Peak	49.87	4.36	54.22	88.20	-33.98

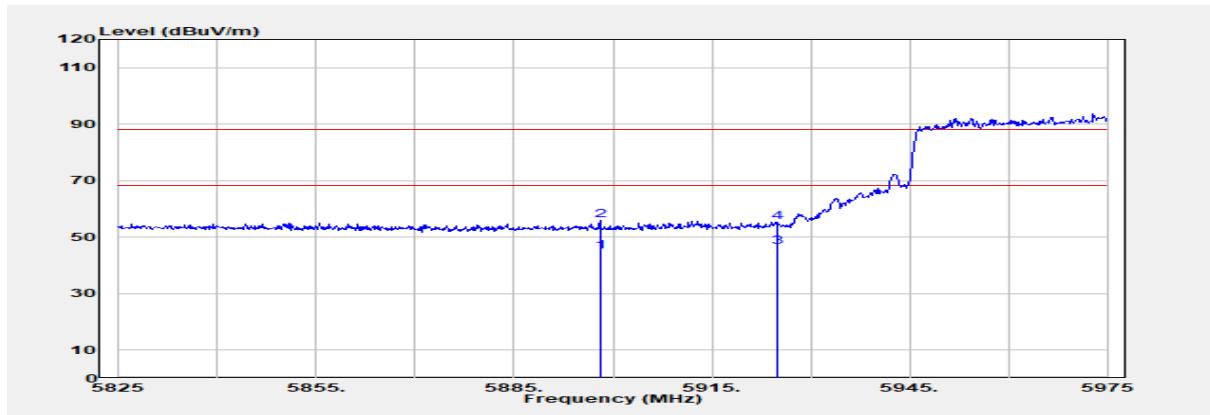
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Report Number :E2/2021/C0069
Operation Mode :802.11ax80
Test Frequency :5985 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5898.050	Average	40.90	4.04	44.94	68.20	-23.26
5898.050	Peak	52.02	4.04	56.06	88.20	-32.14
5925.000	Average	42.15	4.36	46.50	68.20	-21.70
5925.000	Peak	50.90	4.36	55.25	88.20	-32.95

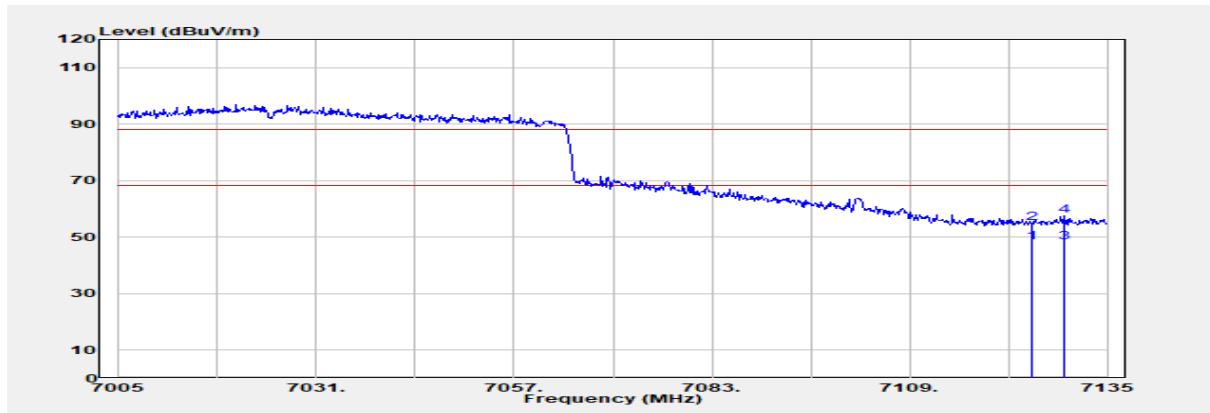
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Report Number :E2/2021/C0069
Operation Mode :802.11ax80
Test Frequency :7025 MHz
Test Mode :BE CH HIGH RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	40.67	7.39	48.06	68.20	-20.14
7125.000	Peak	47.67	7.39	55.06	88.20	-33.14
7129.280	Average	40.66	7.51	48.17	68.20	-20.03
7129.280	Peak	50.02	7.51	57.53	88.20	-30.67

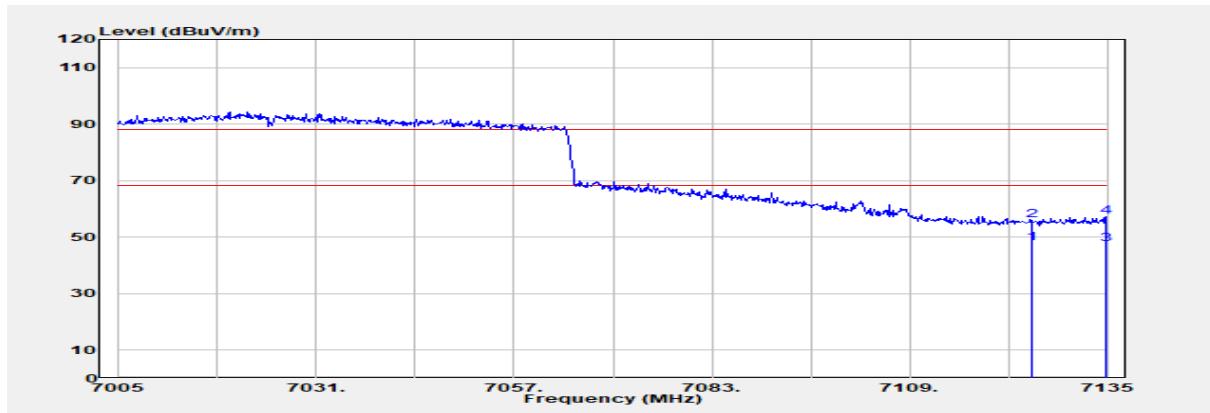
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Report Number :E2/2021/C0069
Operation Mode :802.11ax80
Test Frequency :7025 MHz
Test Mode :BE CH HIGH RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	40.47	7.39	47.86	68.20	-20.34
7125.000	Peak	48.45	7.39	55.83	88.20	-32.37
7134.740	Average	40.13	7.49	47.62	68.20	-20.58
7134.740	Peak	49.65	7.49	57.14	88.20	-31.06

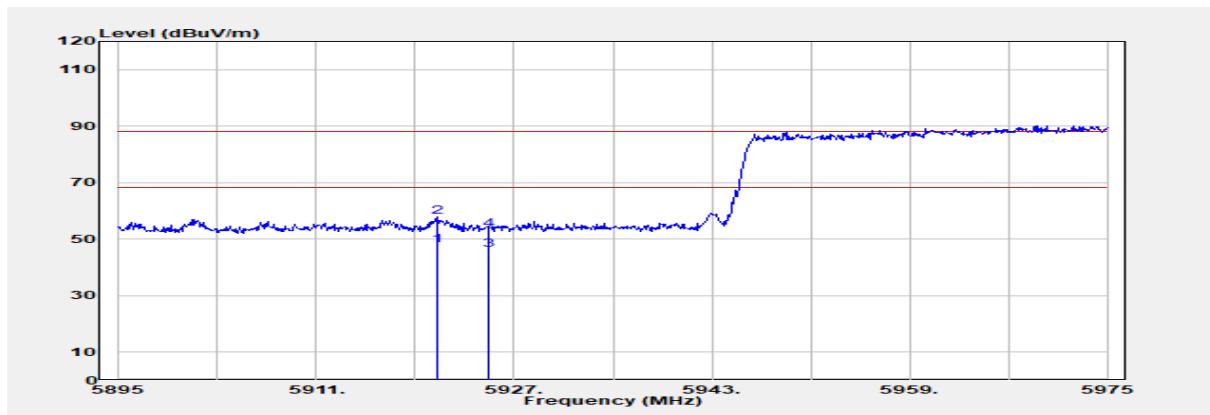
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Report Number :E2/2021/C0069
 Operation Mode :802.11ax160
 Test Frequency :6025 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-12-27
 Temp./Humi. :21.2/57
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5920.760	Average	43.51	4.37	47.88	68.20	-20.32
5920.760	Peak	53.36	4.37	57.73	88.20	-30.47
5925.000	Average	41.95	4.36	46.31	68.20	-21.89
5925.000	Peak	48.96	4.36	53.32	88.20	-34.88

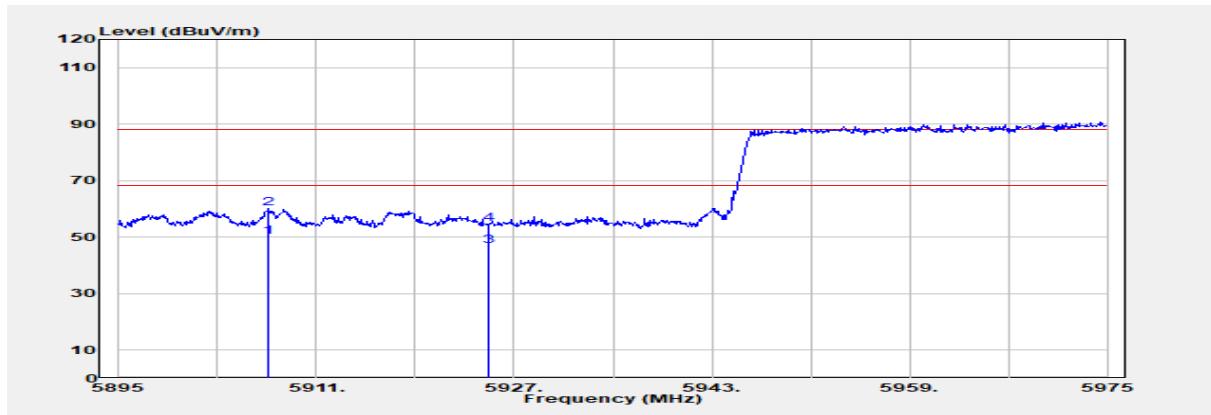
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Report Number :E2/2021/C0069
Operation Mode :802.11ax160
Test Frequency :6025 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5907.160	Average	45.70	4.30	50.00	68.20	-18.20
5907.160	Peak	56.00	4.30	60.30	88.20	-27.90
5925.000	Average	42.36	4.36	46.71	68.20	-21.49
5925.000	Peak	50.29	4.36	54.65	88.20	-33.55

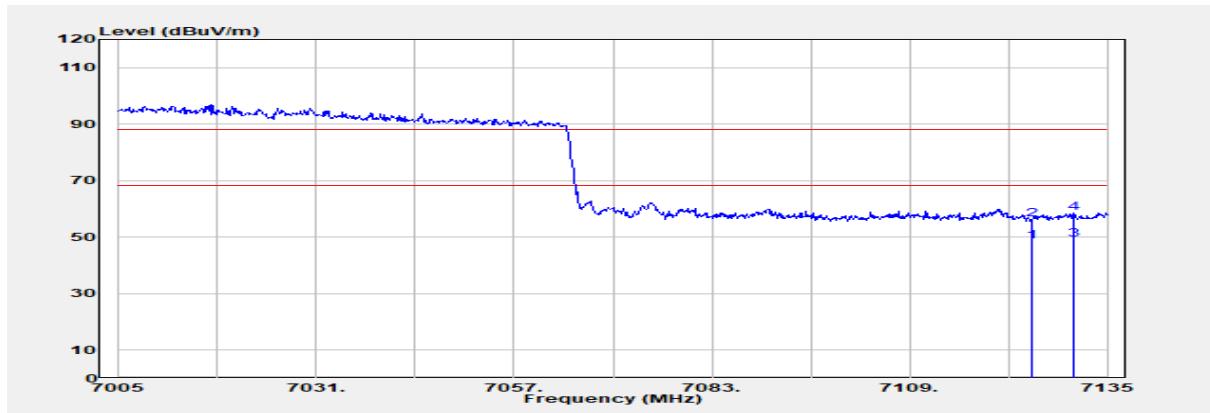
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Report Number :E2/2021/C0069
 Operation Mode :802.11ax160
 Test Frequency :6985 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-12-27
 Temp./Humi. :21.2/57
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	41.14	7.39	48.52	68.20	-19.68
7125.000	Peak	48.76	7.39	56.14	88.20	-32.06
7130.580	Average	41.56	7.52	49.08	68.20	-19.12
7130.580	Peak	51.07	7.52	58.59	88.20	-29.61

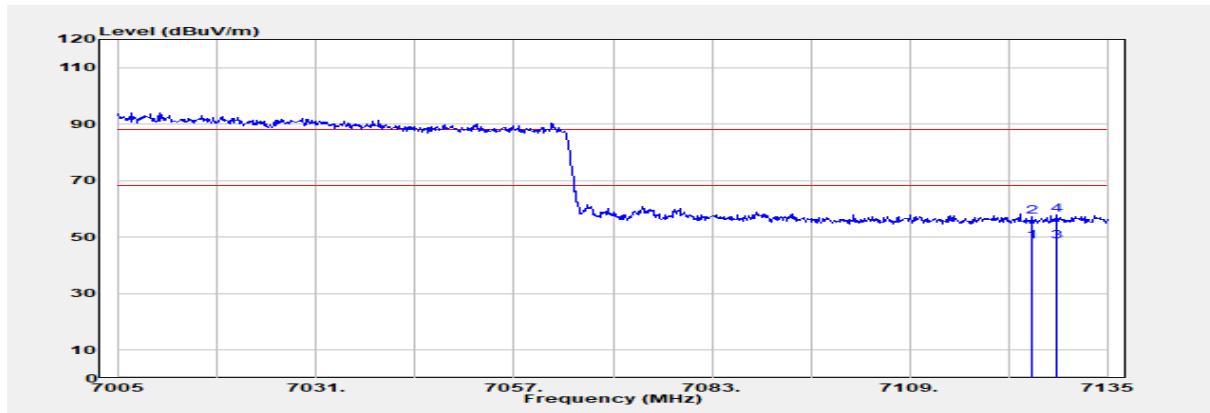
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Report Number :E2/2021/C0069
Operation Mode :802.11ax160
Test Frequency :6985 MHz
Test Mode :BE CH HIGH RU FULL
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2021-12-27
Temp./Humi. :21.2/57
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	40.95	7.39	48.33	68.20	-19.87
7125.000	Peak	49.91	7.39	57.30	88.20	-30.90
7128.370	Average	40.95	7.48	48.43	68.20	-19.77
7128.370	Peak	50.26	7.48	57.74	88.20	-30.46

~ End of Report ~

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