

ELECTROMAGNETIC EMISSIONS COMPLIANCE CLASS II IV
PERMISSIVE CHANGE REPORT

Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181,
Taiwan (R.O.C)
Product Name: Notebook Computer
Brand Name: acer
FCC Model No.: N20Q10
IC Model No.: R722T
Model Difference: N/A
Report Number: E2/2021/A0061
FCC ID HLZ-QCNFA324
IC: 1754F-QCNFA324
Issue Date: Nov.17,2021
Date of Test: Oct.12,2021 ~ Oct.22,2021
Date of EUT Received: Oct.08,2021

Approved By Arno Hsieh
Arno Hsieh

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2021/A0061	Rev.00	Original.	Nov.17,2021	Viola Su	-

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name of Host:	Notebook Computer
Brand Name of Host:	<i>acer</i>
Model No. of FCC Host:	N20Q10
Model No. of IC Host:	R722T
Hardware Version:	N/A
Software Version:	4.0.00172.0
Model No. of BT/WLAN Module:	QCNFA324
Scope:	QCNFA324 INSTALLED IN Notebook Computer
Class II & Class IV Permissive change:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.
EUT Series No.:	N8AZCWW0011362465B7600
Power Supply:	11.55Vdc from Rechargeable Lithium Ion Battery Pack 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter

1.2 Modulation & Data Rate

Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transistion Rate	802.11 a: 6.5 – 54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 – 173.4Mbps 802.11 ac_40MHz: 13.5 – 400.0Mbps 802.11 ac_80MHz: 29.3 – 866.6Mbps

1.3 Module Report

Test Lab	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory.
Report Number	RF140808E04-3

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1.4 Antenna Designation

Antenna Type	Mode	Main / Aux	Freq. (MHz)	Peak Antenna Gain(dBi)
PIFA	Open Mode	Main	5150~5250	3.53
			5250~5350	3.09
			5470~5725	2.34
			5725~5850	1.19
	Open Mode	Aux	5150~5250	0.81
			5250~5350	0.93
			5470~5725	1.29
			5725~5850	1.29
	Tablet Mode	Main	5150~5250	0.85
			5250~5350	0.94
			5470~5725	0.98
			5725~5850	1.21
	Tablet Mode	Aux	5150~5250	0.62
			5250~5350	0.62
			5470~5725	0.57
			5725~5850	0.57

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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1.5 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
RSS-247 issue 2 Feb. 2017
RSS-Gen Issue 5, Amendment 2, February 2021
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.				

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 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.

2.4.2 For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Setup

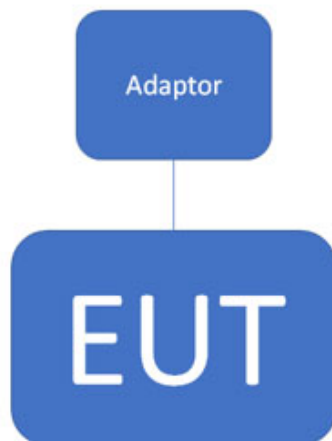


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Version
1.	QRCT	N/A	N/A	N/A	4.0.00161.0
2.	Adapter	Delta	ADP-45HG	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 802.11a/n/ac 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		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290	50	5250
56	5280	62	5310				
60	5300						
64	5320						

Operated band in 5470 MHz ~5725 MHz:

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

Operated band in 5745 MHz ~5850 MHz:

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

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4.2 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
☒ 802.11 a	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ 1TX	☒ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☒ MIMO
☐ 802.11 ax	☐ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☐ 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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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_VHT20	5180~5240	36 to 48	36	OFDM	MCS0	MIMO
	5260~5320	52 to 64	64			
	5500~5720	100 to 144	100,140,144			
	5745~5825	149 to 165	149,165			
802.11ac_VHT40	5190~5230	38 to 46	38	OFDM	MCS0	MIMO
	5270~5310	54 to 62	62			
	5510~5670	102 to 142	102,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,138			
	5775	155	155			

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case NB Plane position was reported.

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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 UNDESIRABLE RADIATED EMISSION MEASUREMENT

6.1 Standard Applicable

6.1.1 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
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, 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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6.1.2 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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6.2 Measurement Equipment Used

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/11/2020	11/10/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM- 7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF17	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-14-0251	RF179	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-14-0275	RF180	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-14-0251	RF181	11/19/2020	11/18/2021
Band Reject Filter	Titan Microwave Co. Ltd	T04N5725589550S01	210519-2-2	07/27/2021	07/26/2022

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

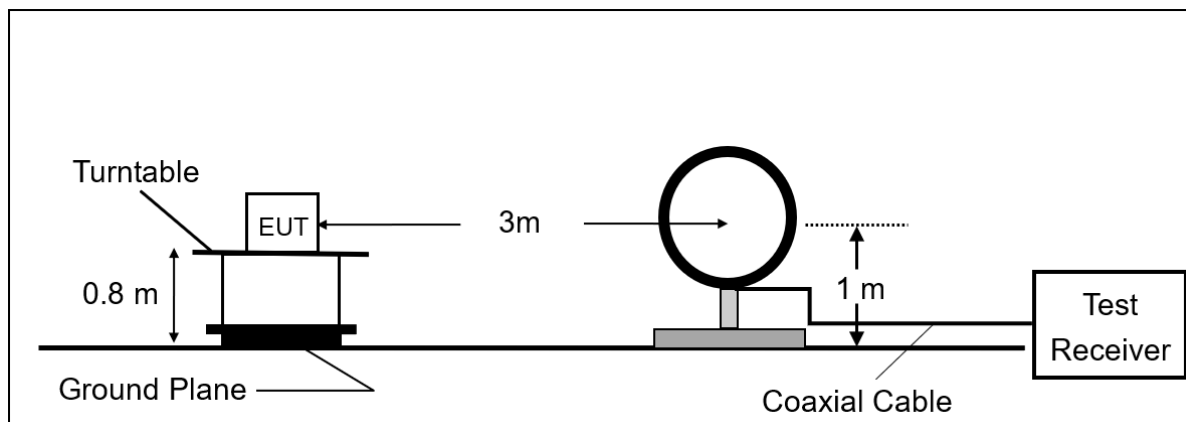
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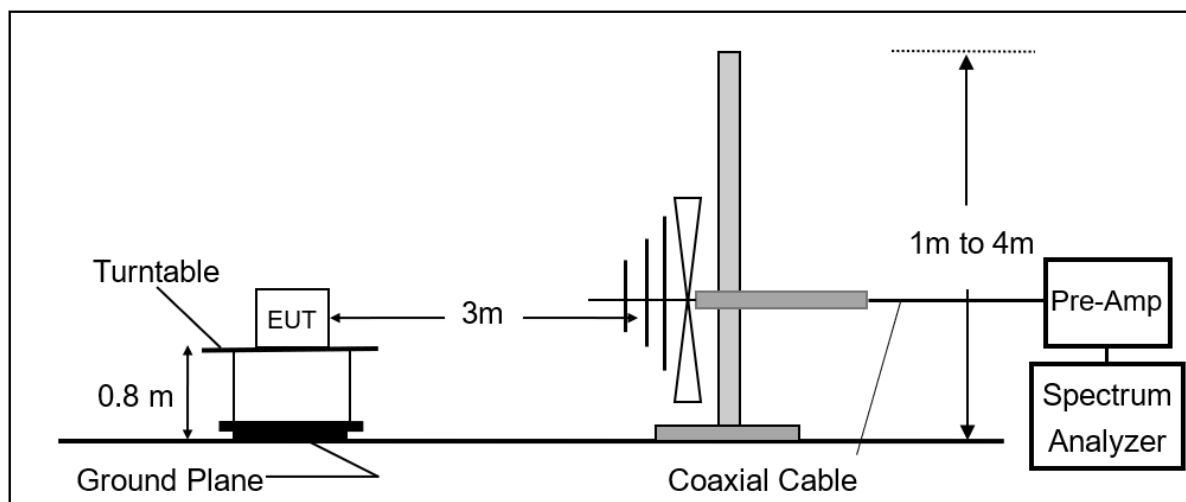
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6.3 Test SET-UP

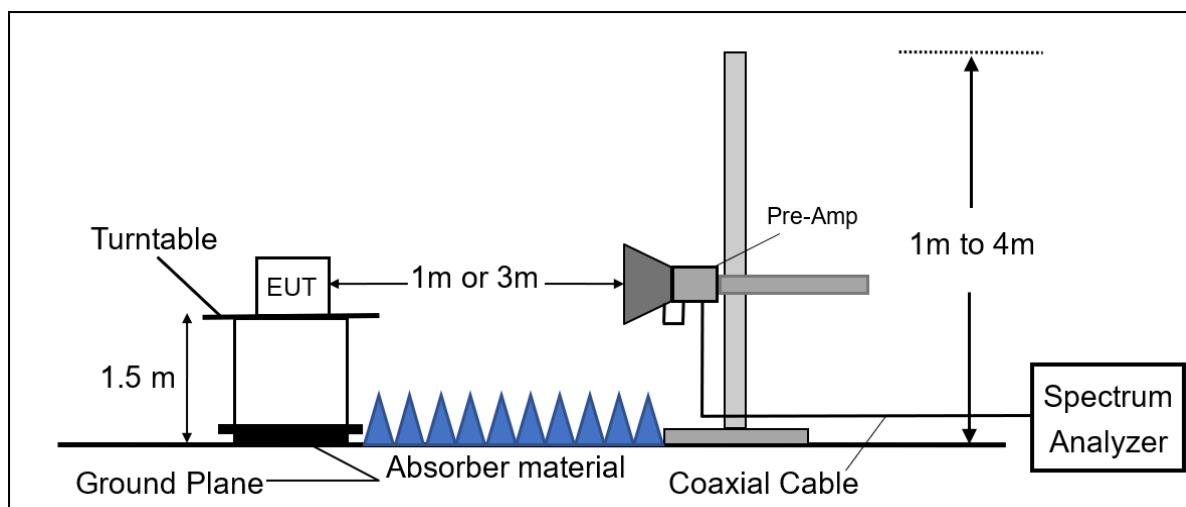
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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6.4 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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6.5 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(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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

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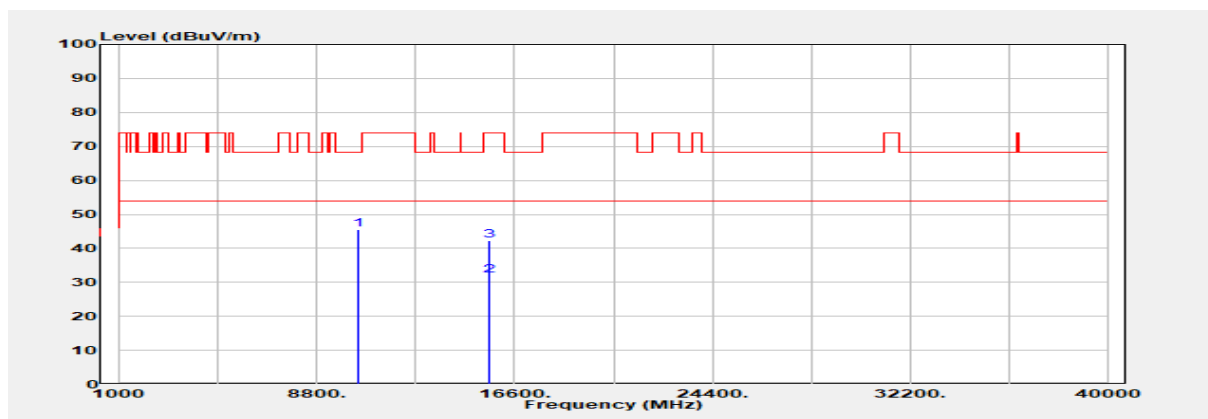
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6.7 Radiated Spurious Emission Measurement Result

6.7.1 Above 1GHz Worst-Case Data:

Report Number	:E2-2021-A0061	Test Site	:SAC D
Operation Mode	:802.11a / Band 1	Test Date	:2021-10-22
Test Frequency	:5200 MHz	Temp./Humi.	:20.3/70
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10400.000	Peak	37.63	8.00	45.63	68.20	-22.57
15600.000	Average	25.66	6.28	31.94	54.00	-22.06
15600.000	Peak	35.88	6.28	42.17	74.00	-31.83

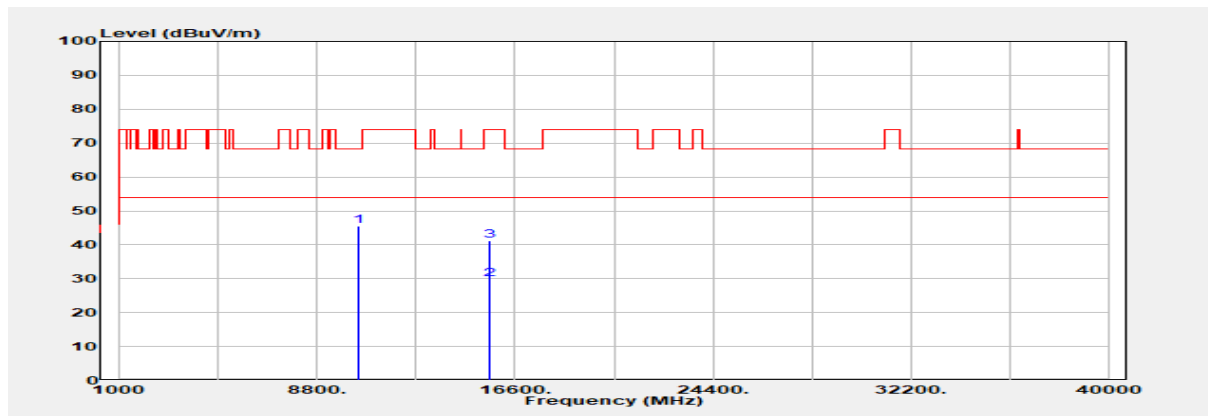
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 1
 Test Frequency :5200 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :20.3/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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
10400.000	Peak	37.65	8.00	45.65	68.20	-22.55
15600.000	Average	23.66	6.28	29.94	54.00	-24.06
15600.000	Peak	34.95	6.28	41.24	74.00	-32.76

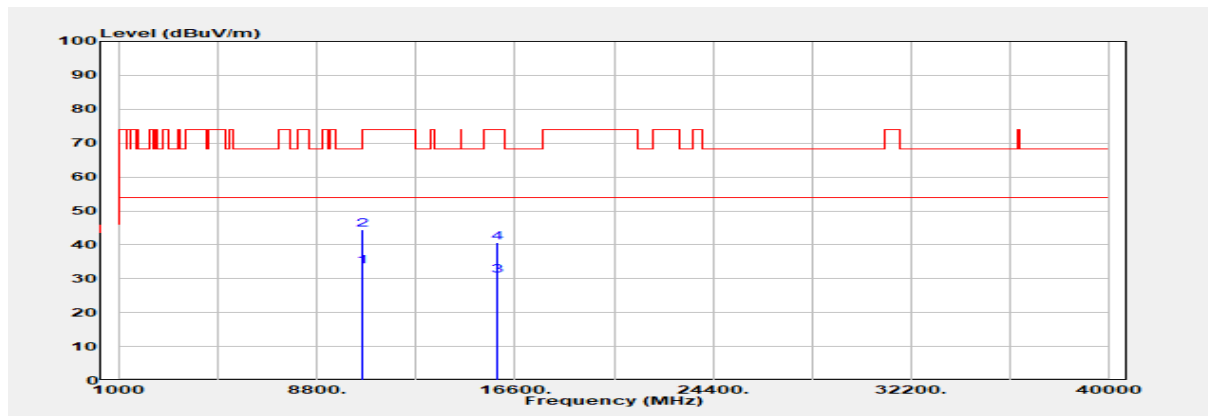
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :20.3/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	26.17	7.30	33.47	54.00	-20.53
10600.000	Peak	37.02	7.30	44.32	74.00	-29.68
15900.000	Average	25.12	5.67	30.79	54.00	-23.21
15900.000	Peak	34.86	5.67	40.53	74.00	-33.47

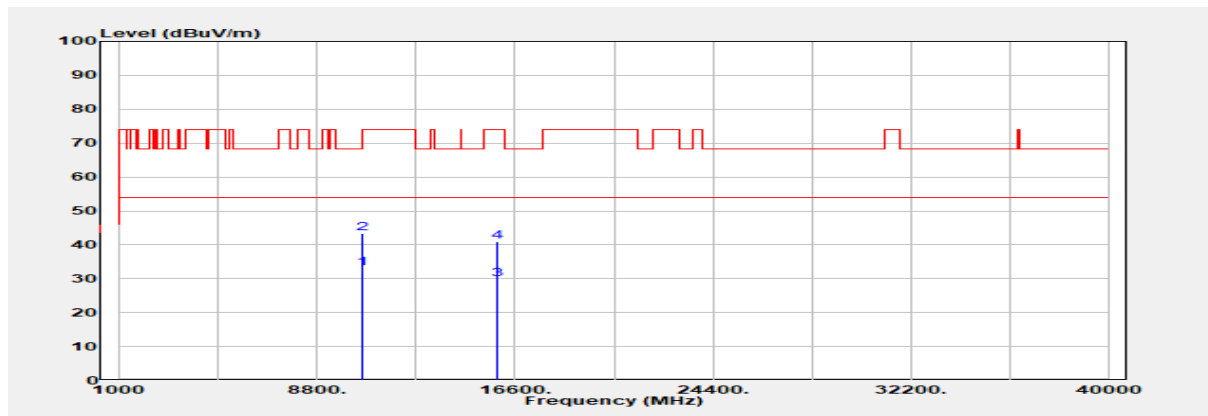
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :20.3/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	25.63	7.30	32.93	54.00	-21.07
10600.000	Peak	36.19	7.30	43.49	74.00	-30.51
15900.000	Average	24.16	5.67	29.83	54.00	-24.17
15900.000	Peak	35.21	5.67	40.88	74.00	-33.12

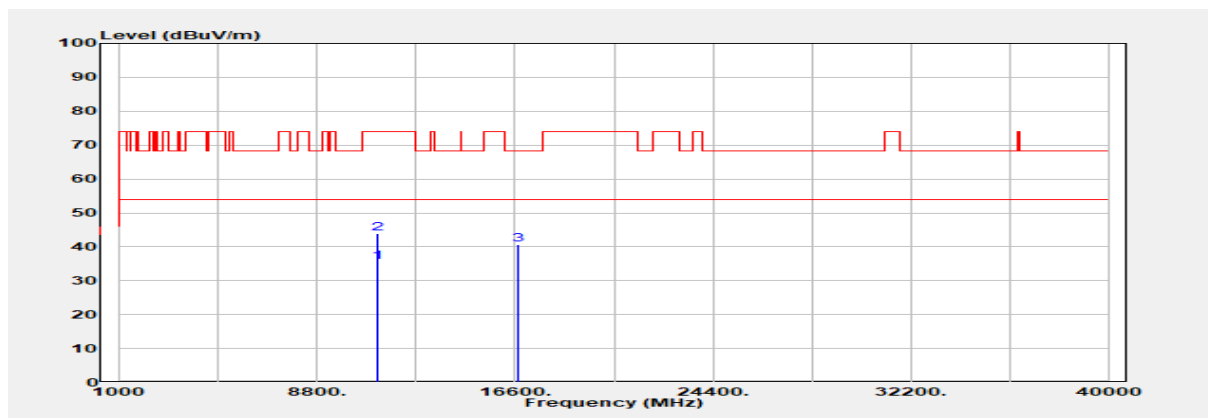
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :20.3/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Average	27.50	7.89	35.39	54.00	-18.61
11160.000	Peak	36.08	7.89	43.97	74.00	-30.03
16740.000	Peak	33.44	7.29	40.74	68.20	-27.46

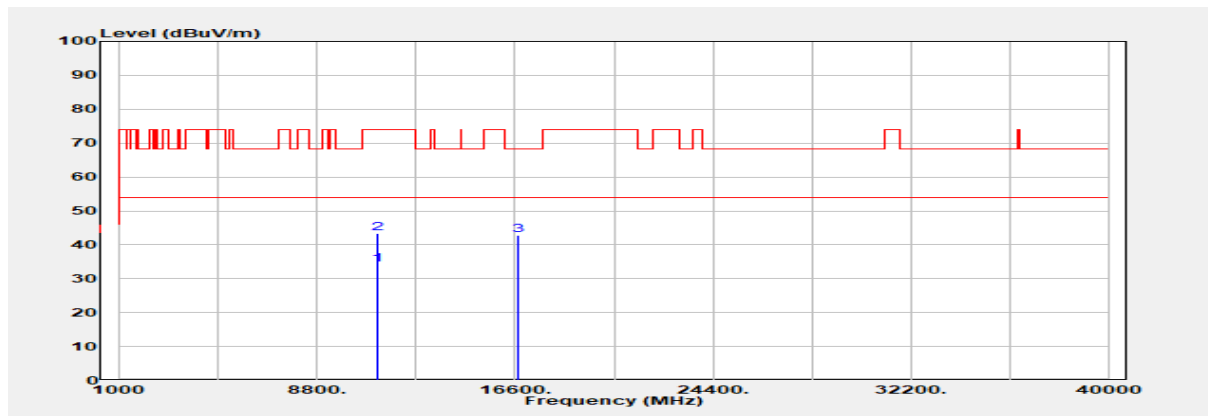
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :20.3/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Average	26.37	7.89	34.26	54.00	-19.74
11160.000	Peak	35.54	7.89	43.43	74.00	-30.57
16740.000	Peak	35.65	7.29	42.94	68.20	-25.26

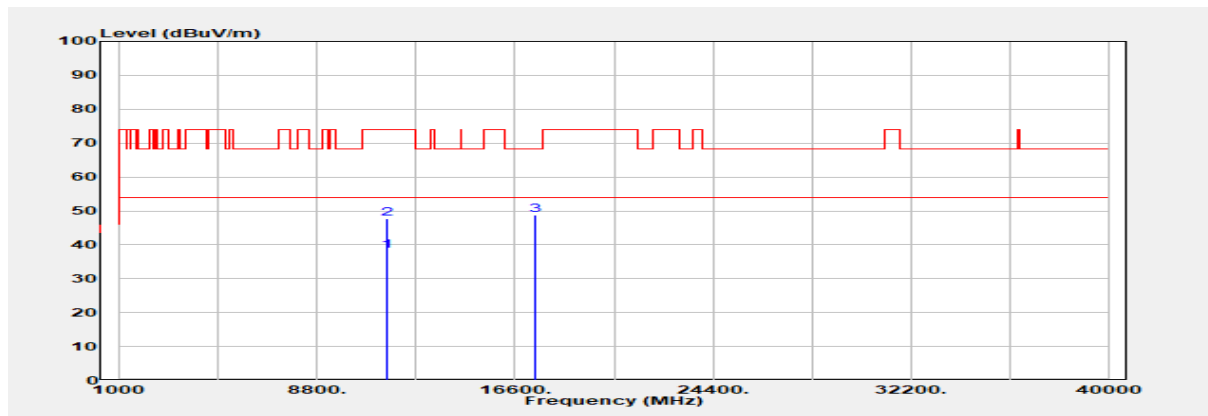
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :20.3/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	29.53	8.68	38.20	54.00	-15.80
11570.000	Peak	38.95	8.68	47.62	74.00	-26.38
17355.000	Peak	38.79	9.88	48.67	68.20	-19.53

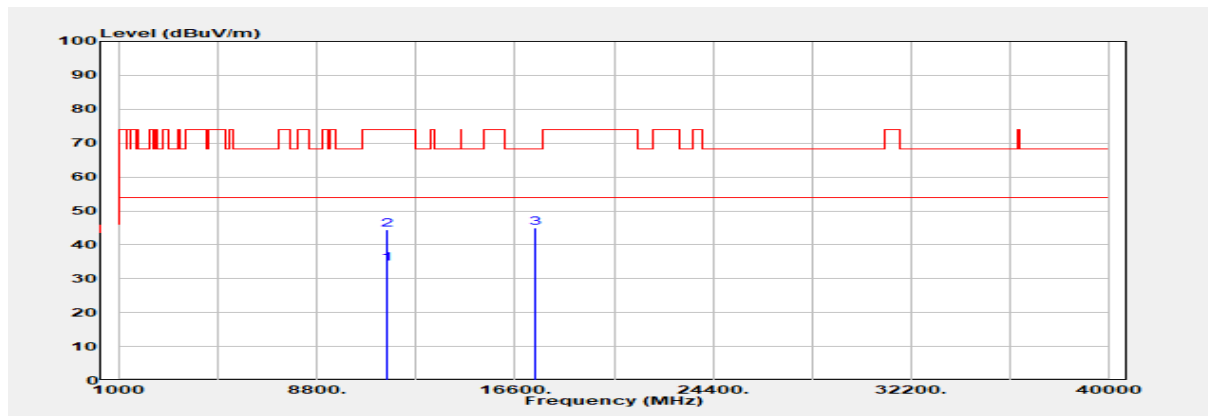
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :20.3/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	25.77	8.68	34.45	54.00	-19.55
11570.000	Peak	35.80	8.68	44.48	74.00	-29.52
17355.000	Peak	35.10	9.88	44.98	68.20	-23.22

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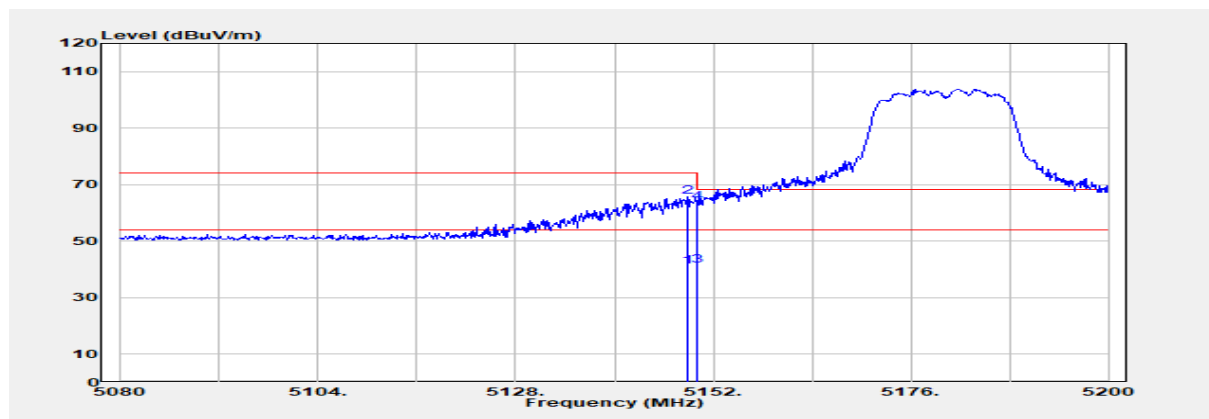
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6.7.2 Band edge falling to restricted band

Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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
5148.880	Average	43.52	-2.51	41.01	54.00	-12.99
5148.880	Peak	68.09	-2.51	65.58	74.00	-8.42
5150.000	Average	43.77	-2.53	41.24	54.00	-12.76
5150.000	Peak	66.22	-2.53	63.69	74.00	-10.31

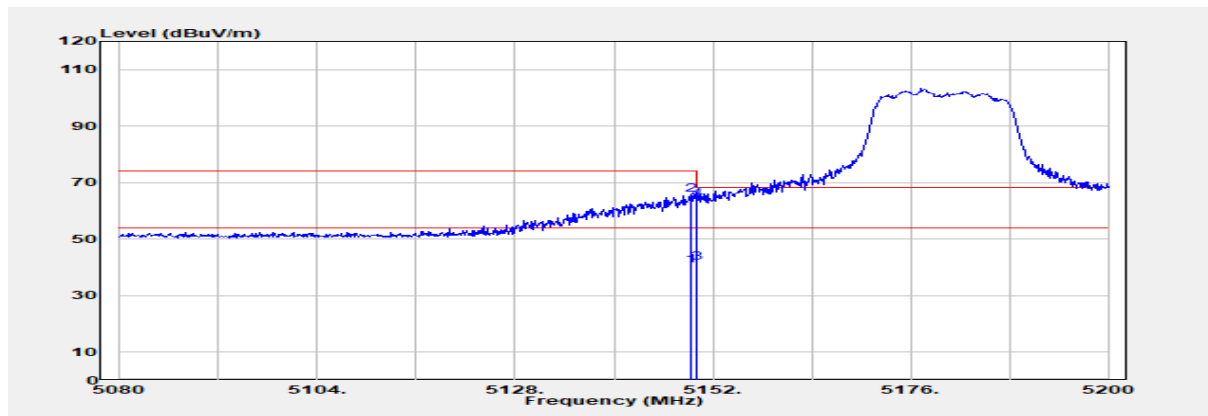
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.240	Average	43.33	-2.52	40.81	54.00	-13.19
5149.240	Peak	68.21	-2.52	65.69	74.00	-8.31
5150.000	Average	44.27	-2.53	41.74	54.00	-12.26
5150.000	Peak	66.67	-2.53	64.14	74.00	-9.86

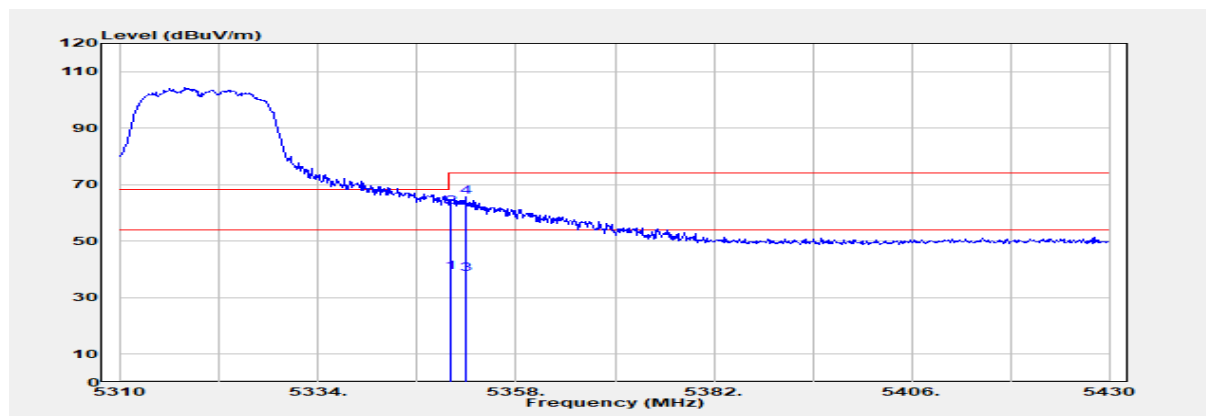
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	41.58	-2.66	38.91	54.00	-15.09
5350.000	Peak	64.85	-2.66	62.19	74.00	-11.81
5351.880	Average	41.28	-2.74	38.53	54.00	-15.47
5351.880	Peak	68.31	-2.74	65.56	74.00	-8.44

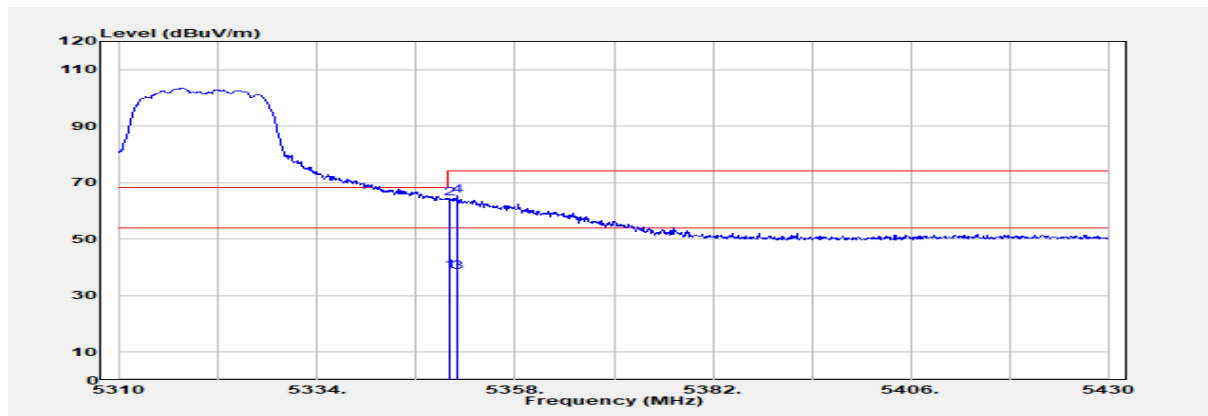
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	41.20	-2.66	38.54	54.00	-15.46
5350.000	Peak	67.16	-2.66	64.49	74.00	-9.51
5350.920	Average	41.15	-2.70	38.45	54.00	-15.55
5350.920	Peak	68.04	-2.70	65.33	74.00	-8.67

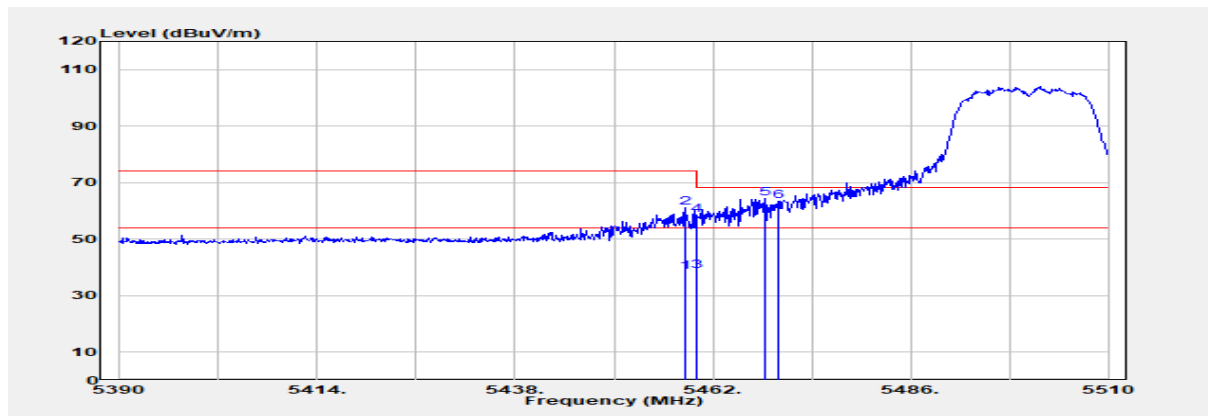
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.640	Average	40.74	-2.21	38.53	54.00	-15.47
5458.640	Peak	63.25	-2.21	61.04	74.00	-12.96
5460.000	Average	40.80	-2.18	38.61	54.00	-15.39
5460.000	Peak	60.87	-2.18	58.68	74.00	-15.32
5468.240	Peak	66.70	-2.32	64.38	68.20	-3.82
5470.000	Peak	65.77	-2.35	63.43	68.20	-4.77

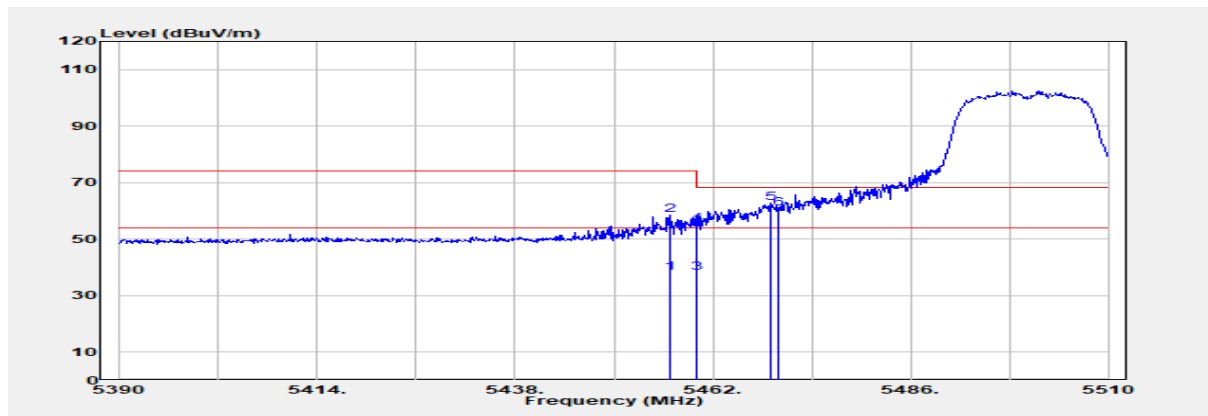
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.720	Average	40.32	-2.26	38.06	54.00	-15.94
5456.720	Peak	60.67	-2.26	58.41	74.00	-15.59
5460.000	Average	40.35	-2.18	38.16	54.00	-15.84
5460.000	Peak	57.34	-2.18	55.16	74.00	-18.84
5468.960	Peak	65.13	-2.33	62.80	68.20	-5.40
5470.000	Peak	63.06	-2.35	60.71	68.20	-7.49

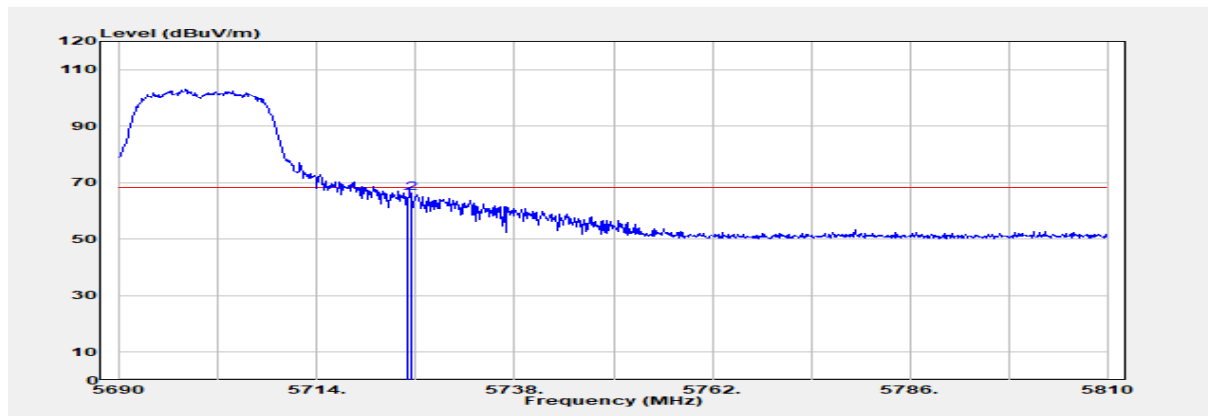
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-22
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	66.45	-1.98	64.48	68.20	-3.72
5725.520	Peak	68.19	-2.00	66.18	68.20	-2.02

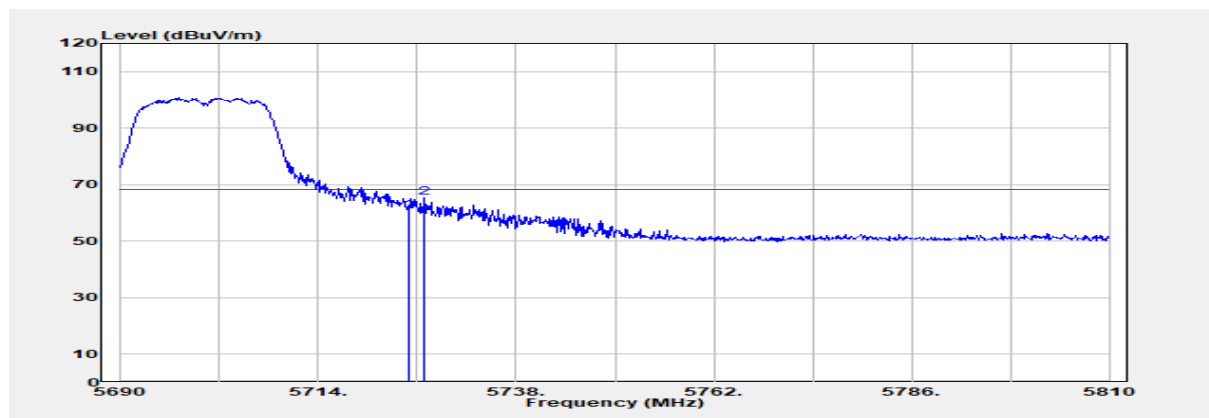
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	62.67	-1.98	60.70	68.20	-7.50
5726.840	Peak	67.55	-2.08	65.47	68.20	-2.73

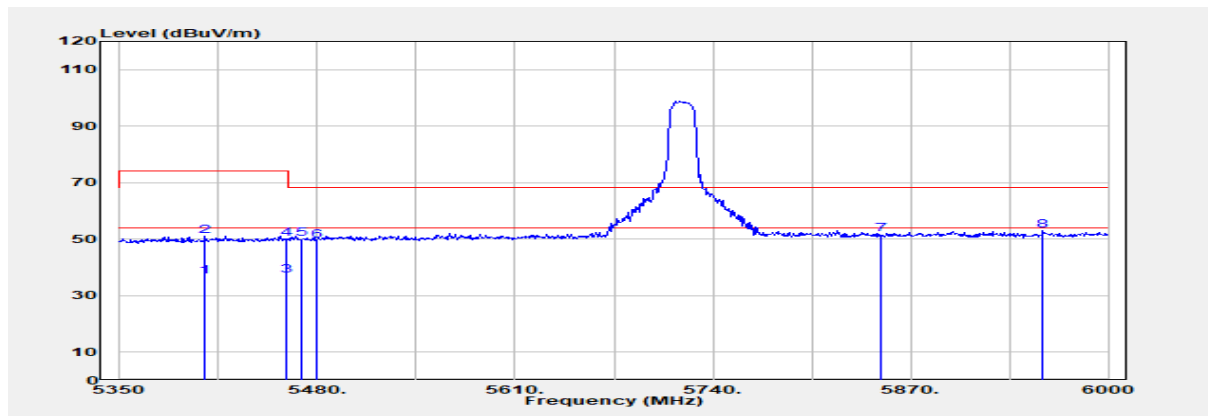
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5405.900	Average	39.14	-2.52	36.62	54.00	-17.38
5405.900	Peak	53.64	-2.52	51.12	74.00	-22.88
5460.000	Average	39.16	-2.18	36.98	54.00	-17.02
5460.000	Peak	52.27	-2.18	50.09	74.00	-23.91
5470.000	Peak	52.38	-2.35	50.03	68.20	-18.17
5480.000	Peak	51.81	-2.33	49.48	68.20	-18.72
5850.000	Peak	53.20	-1.57	51.63	68.20	-16.57
5957.100	Peak	53.81	-0.83	52.98	68.20	-15.22

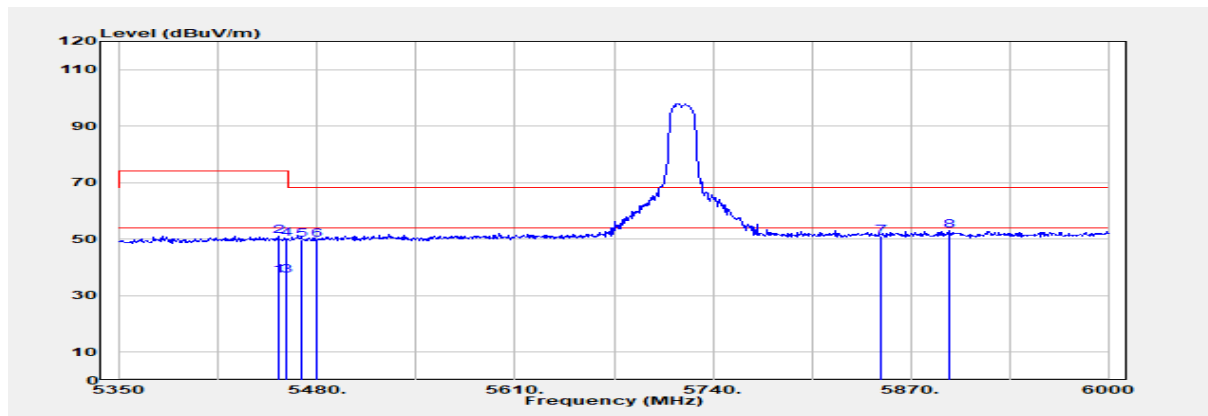
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	39.37	-2.32	37.05	54.00	-16.95
5454.000	Peak	53.48	-2.32	51.16	74.00	-22.84
5460.000	Average	39.32	-2.18	37.14	54.00	-16.86
5460.000	Peak	52.18	-2.18	49.99	74.00	-24.01
5470.000	Peak	52.00	-2.35	49.65	68.20	-18.55
5480.000	Peak	52.23	-2.33	49.89	68.20	-18.31
5850.000	Peak	52.68	-1.57	51.11	68.20	-17.09
5895.350	Peak	54.13	-0.99	53.14	68.20	-15.06

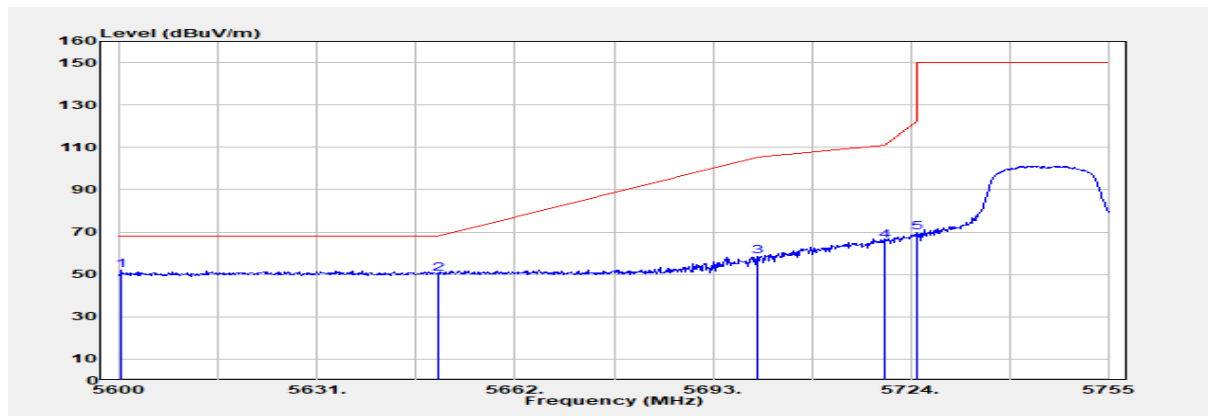
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5600.310	Peak	54.32	-2.18	52.14	68.20	-16.06
5650.000	Peak	52.53	-2.20	50.33	68.20	-17.87
5700.000	Peak	60.84	-2.17	58.68	105.20	-46.52
5720.000	Peak	67.80	-1.70	66.11	110.80	-44.69
5725.000	Peak	71.99	-1.98	70.01	122.20	-52.19

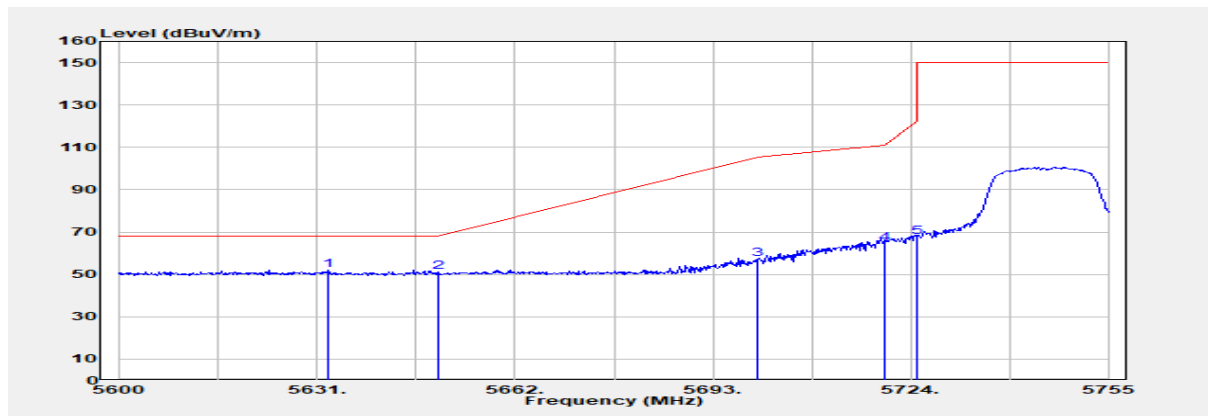
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Report Number :E2-2021-A0061
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :SAC D
Test Date :2021-10-21
Temp./Humi. :22.1/70
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5632.705	Peak	54.18	-2.16	52.02	68.20	-16.18
5650.000	Peak	53.37	-2.20	51.17	68.20	-17.03
5700.000	Peak	59.35	-2.17	57.18	105.20	-48.02
5720.000	Peak	66.38	-1.70	64.69	110.80	-46.11
5725.000	Peak	69.65	-1.98	67.67	122.20	-54.53

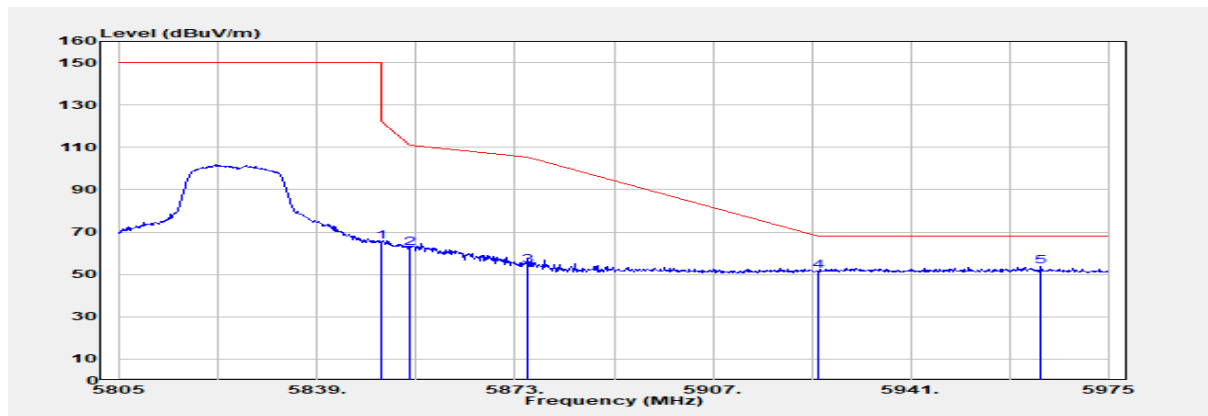
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	67.18	-1.57	65.61	122.20	-56.59
5855.000	Peak	64.00	-1.42	62.58	110.80	-48.22
5875.000	Peak	55.54	-1.42	54.12	105.20	-51.08
5925.000	Peak	52.55	-0.99	51.56	68.20	-16.64
5963.440	Peak	54.64	-0.90	53.74	68.20	-14.46

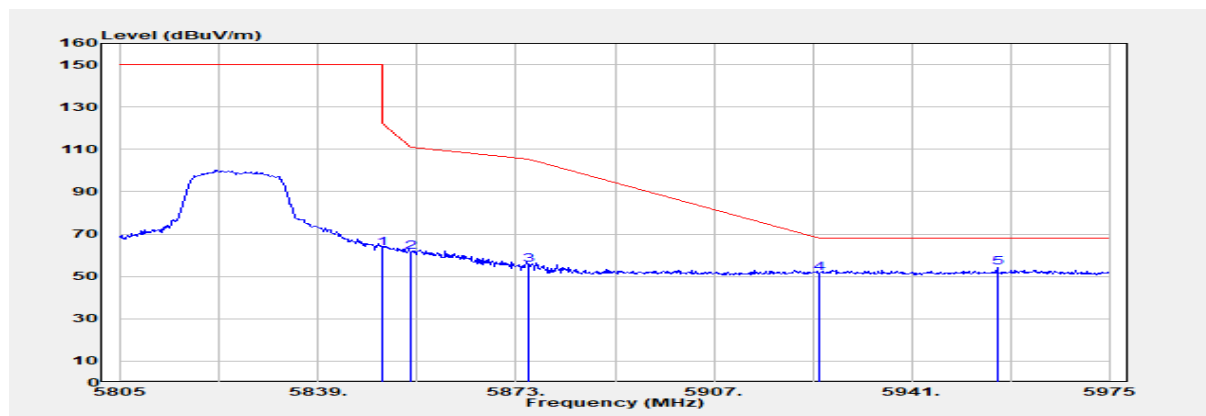
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Report Number :E2-2021-A0061
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	65.08	-1.57	63.51	122.20	-58.69
5855.000	Peak	63.16	-1.42	61.74	110.80	-49.06
5875.000	Peak	57.07	-1.42	55.65	105.20	-49.55
5925.000	Peak	52.77	-0.99	51.77	68.20	-16.43
5955.790	Peak	55.18	-0.89	54.29	68.20	-13.91

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac20 / Band 1

Test Date :2021-10-21

Test Frequency :5180 MHz

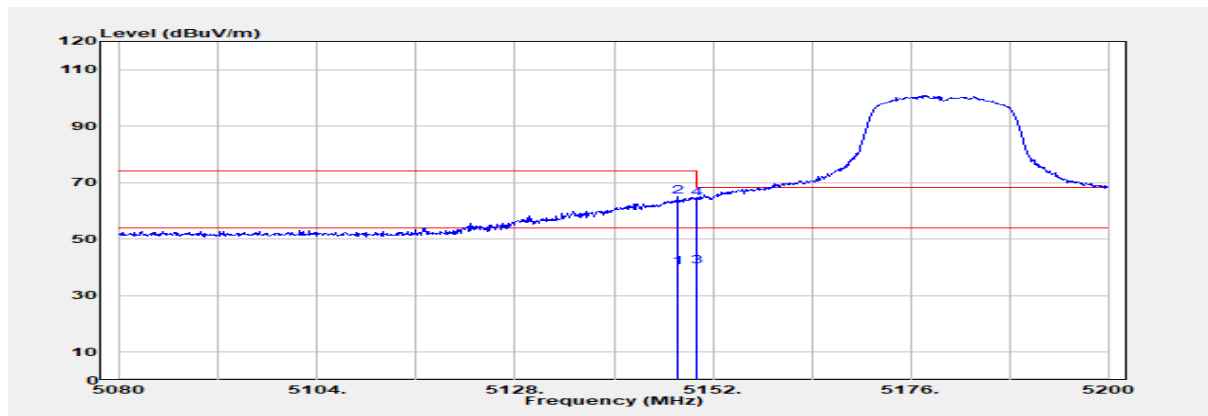
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.800	Average	42.55	-2.50	40.06	74.00	-33.94
5147.800	Peak	67.65	-2.50	65.15	74.00	-8.85
5150.000	Average	42.87	-2.53	40.34	74.00	-33.66
5150.000	Peak	66.76	-2.53	64.24	74.00	-9.76

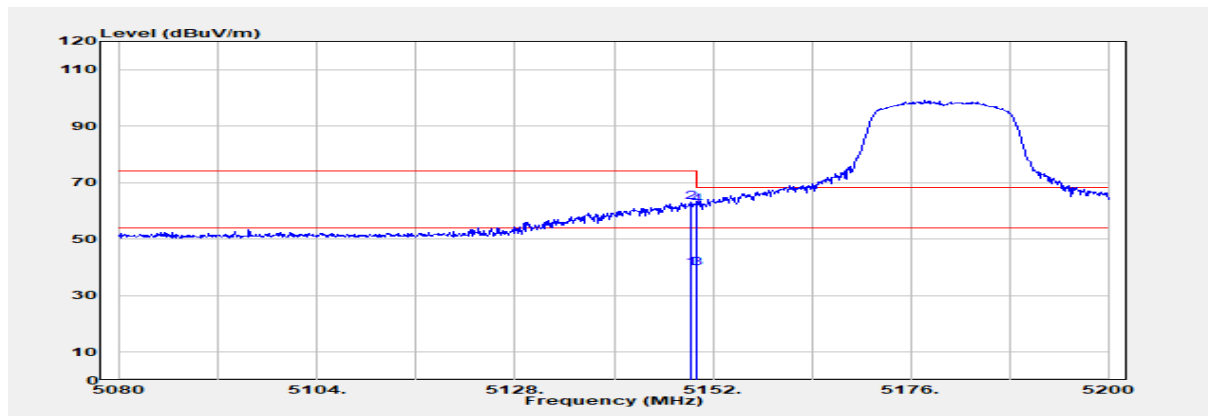
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.240	Average	42.24	-2.52	39.72	74.00	-34.28
5149.240	Peak	65.45	-2.52	62.93	74.00	-11.07
5150.000	Average	42.34	-2.53	39.81	74.00	-34.19
5150.000	Peak	64.75	-2.53	62.22	74.00	-11.78

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac20 / Band 2

Test Date :2021-10-21

Test Frequency :5320 MHz

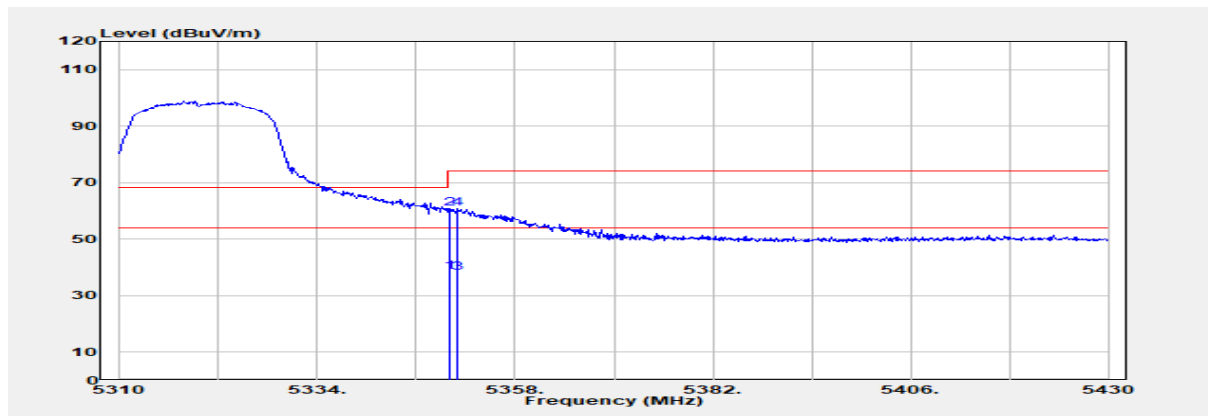
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



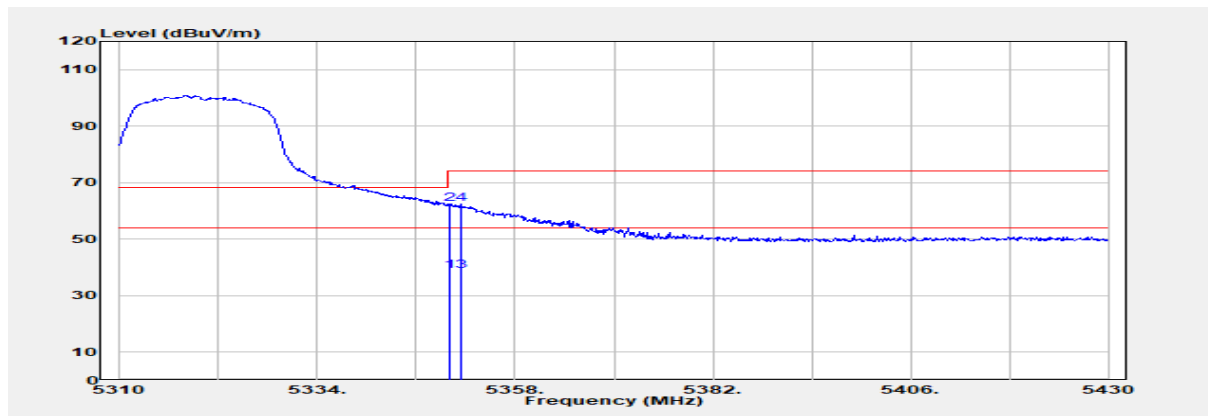
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	40.98	-2.66	38.32	74.00	-35.68
5350.000	Peak	63.43	-2.66	60.76	74.00	-13.24
5350.920	Average	40.86	-2.70	38.16	74.00	-35.84
5350.920	Peak	63.36	-2.70	60.66	74.00	-13.34

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Report Number	:E2-2021-A0061	Test Site	:SAC D
Operation Mode	:802.11ac20 / Band 2	Test Date	:2021-10-21
Test Frequency	:5320 MHz	Temp./Humi.	:22.1/70
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Jack Tseng



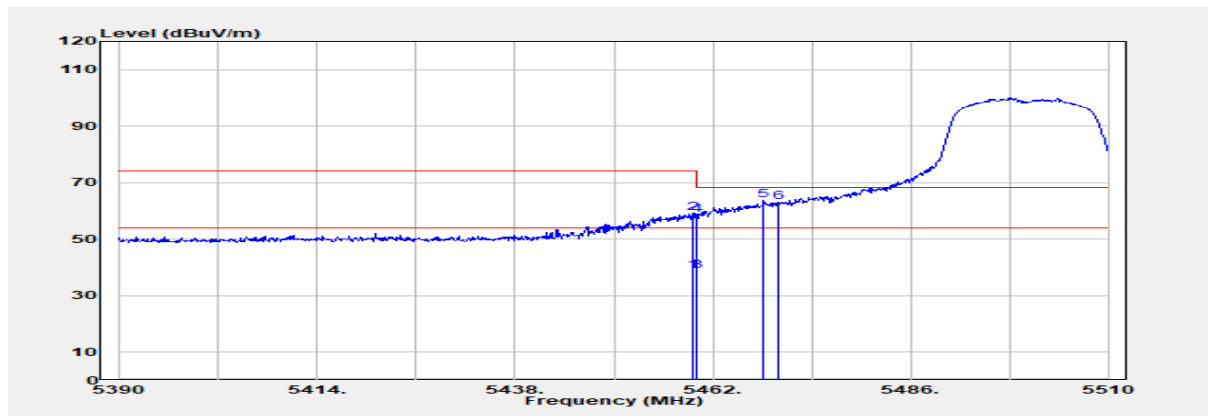
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	41.52	-2.66	38.86	74.00	-35.14
5350.000	Peak	64.94	-2.66	62.28	74.00	-11.72
5351.520	Average	41.30	-2.73	38.57	74.00	-35.43
5351.520	Peak	65.11	-2.73	62.38	74.00	-11.62

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Report Number	:E2-2021-A0061	Test Site	:SAC D
Operation Mode	:802.11ac20 / Band 3	Test Date	:2021-10-21
Test Frequency	:5500 MHz	Temp./Humi.	:22.1/70
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.600	Average	40.79	-2.19	38.60	74.00	-35.40
5459.600	Peak	61.53	-2.19	59.34	74.00	-14.66
5460.000	Average	40.84	-2.18	38.66	74.00	-35.34
5460.000	Peak	60.60	-2.18	58.42	74.00	-15.58
5468.120	Peak	65.92	-2.32	63.61	68.20	-4.59
5470.000	Peak	65.40	-2.35	63.06	68.20	-5.14

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-21

Test Frequency :5500 MHz

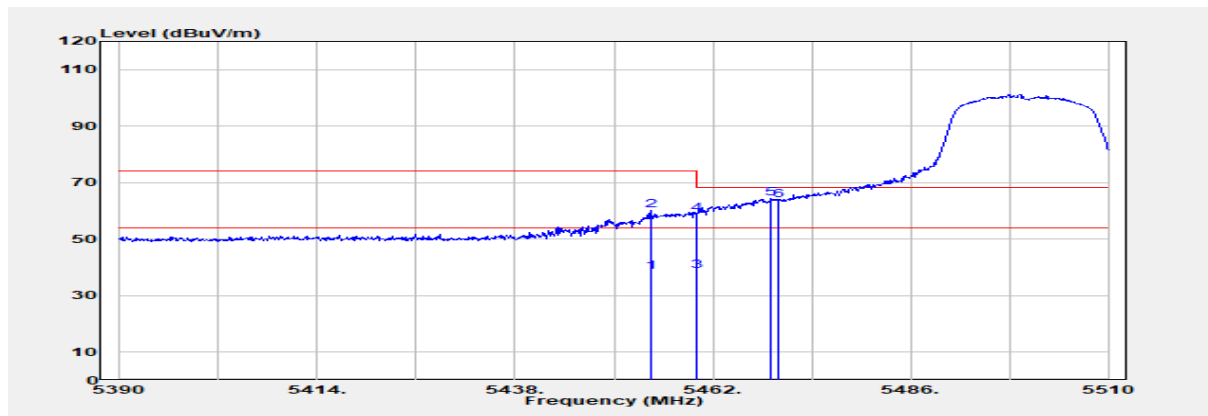
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.440	Average	40.71	-2.31	38.39	74.00	-35.61
5454.440	Peak	62.42	-2.31	60.11	74.00	-13.89
5460.000	Average	41.00	-2.18	38.82	74.00	-35.18
5460.000	Peak	60.98	-2.18	58.80	74.00	-15.20
5469.080	Peak	66.67	-2.33	64.34	68.20	-3.86
5470.000	Peak	65.95	-2.35	63.60	68.20	-4.60

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-21

Test Frequency :5700 MHz

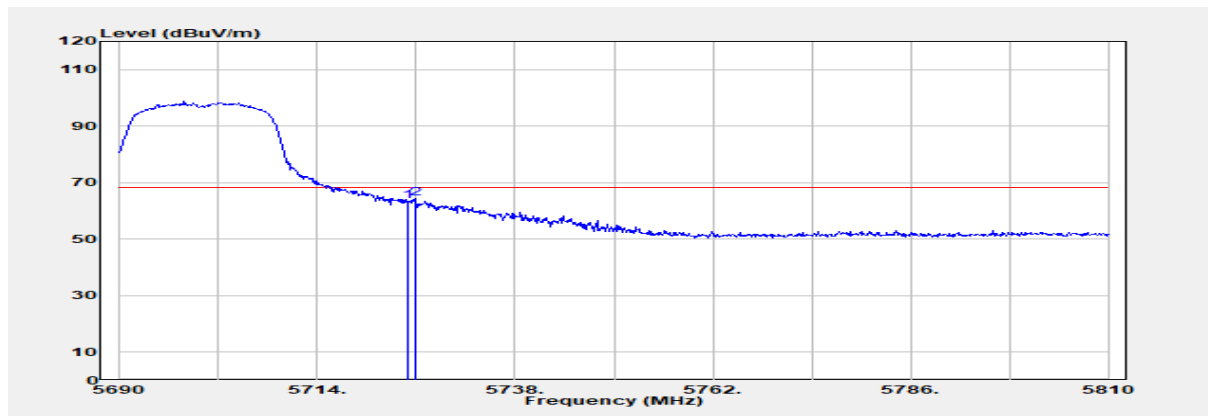
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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	65.23	-1.98	63.26	68.20	-4.94
5725.880	Peak	66.42	-2.02	64.39	68.20	-3.81

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-21

Test Frequency :5700 MHz

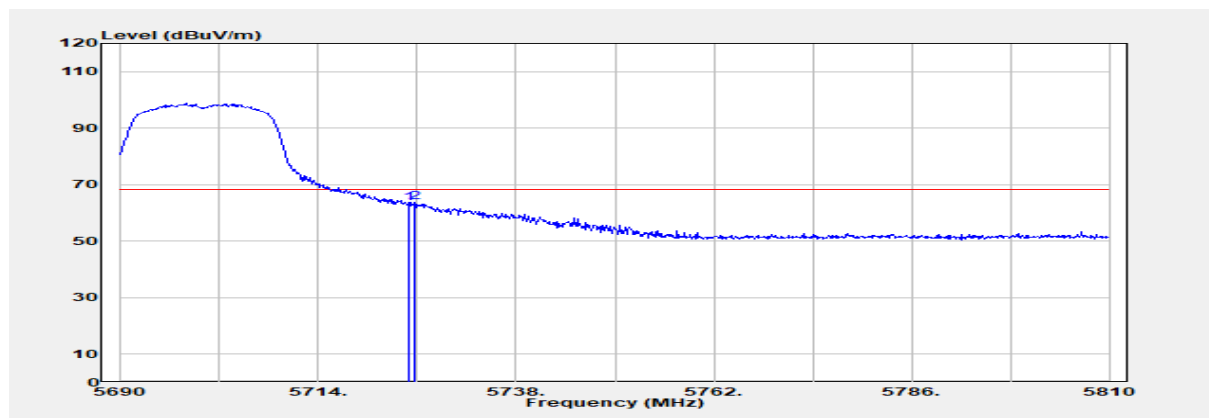
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



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	65.38	-1.98	63.40	68.20	-4.80
5725.640	Peak	65.65	-2.01	63.64	68.20	-4.56

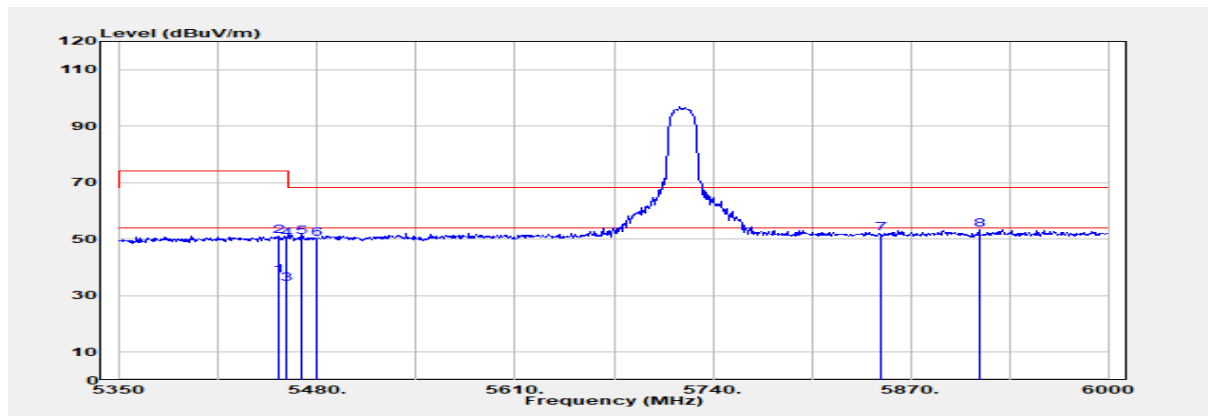
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac20 / Band3-4
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	39.44	-2.32	37.12	54.00	-16.88
5454.000	Peak	53.47	-2.32	51.15	74.00	-22.85
5460.000	Average	36.31	-2.18	34.12	54.00	-19.88
5460.000	Peak	52.38	-2.18	50.20	74.00	-23.80
5470.000	Peak	52.95	-2.35	50.60	68.20	-17.60
5480.000	Peak	52.50	-2.33	50.17	68.20	-18.03
5850.000	Peak	53.57	-1.57	52.00	68.20	-16.20
5915.500	Peak	54.81	-1.36	53.45	68.20	-14.75

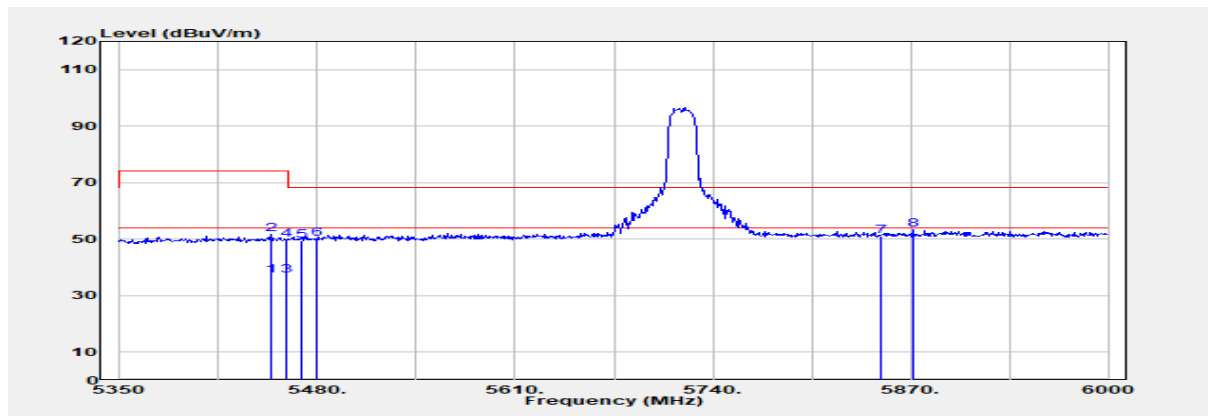
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac20 / Band3-4
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5449.450	Average	39.48	-2.41	37.07	54.00	-16.93
5449.450	Peak	54.08	-2.41	51.67	74.00	-22.33
5460.000	Average	39.35	-2.18	37.16	54.00	-16.84
5460.000	Peak	51.87	-2.18	49.69	74.00	-24.31
5470.000	Peak	51.80	-2.35	49.45	68.20	-18.75
5480.000	Peak	52.39	-2.33	50.06	68.20	-18.14
5850.000	Peak	52.62	-1.57	51.05	68.20	-17.15
5871.300	Peak	54.68	-1.41	53.27	68.20	-14.93

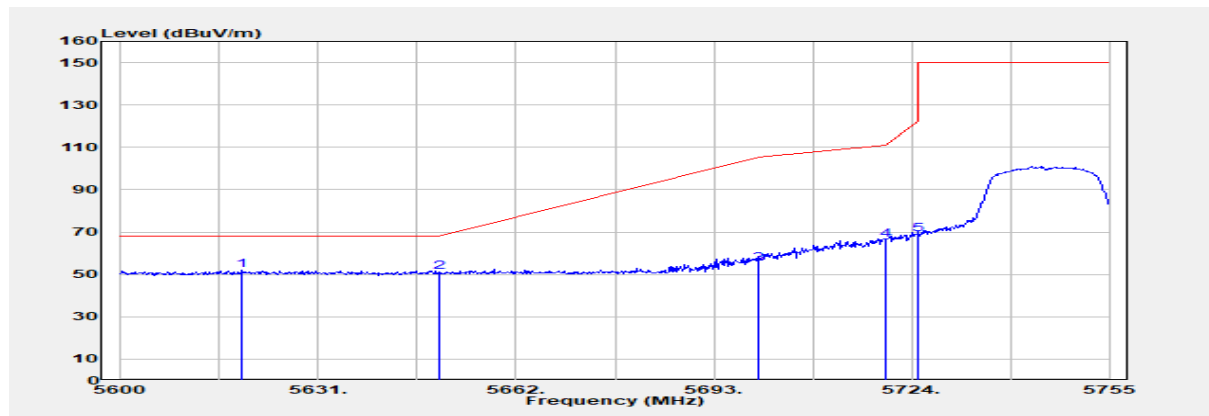
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5619.065	Peak	53.93	-2.06	51.87	68.20	-16.33
5650.000	Peak	53.47	-2.20	51.27	68.20	-16.93
5700.000	Peak	57.26	-2.17	55.09	105.20	-50.11
5720.000	Peak	67.85	-1.70	66.15	110.80	-44.65
5725.000	Peak	70.84	-1.98	68.87	122.20	-53.33

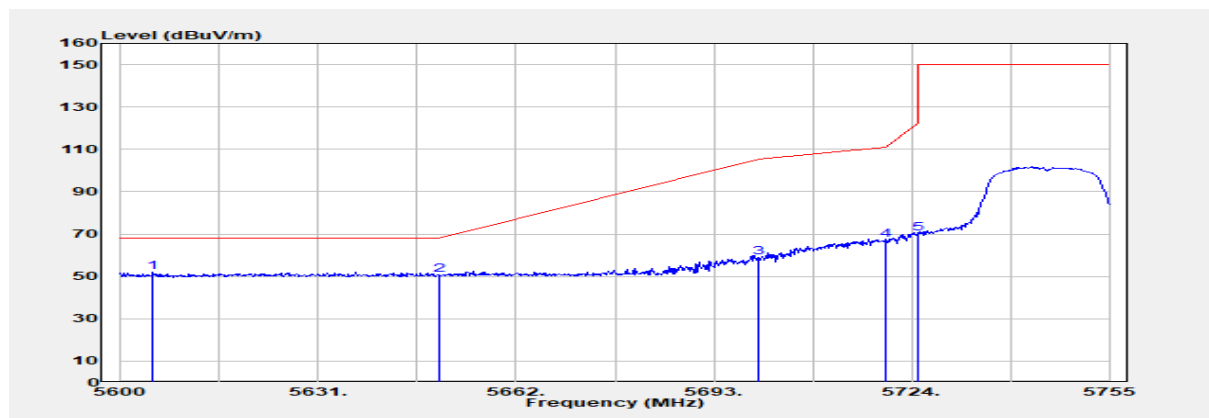
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5604.960	Peak	54.19	-2.30	51.89	68.20	-16.31
5650.000	Peak	53.11	-2.20	50.91	68.20	-17.29
5700.000	Peak	61.23	-2.17	59.07	105.20	-46.13
5720.000	Peak	68.74	-1.70	67.05	110.80	-43.75
5725.000	Peak	72.31	-1.98	70.34	122.20	-51.86

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac20 / Band 4

Test Date :2021-10-21

Test Frequency :5825 MHz

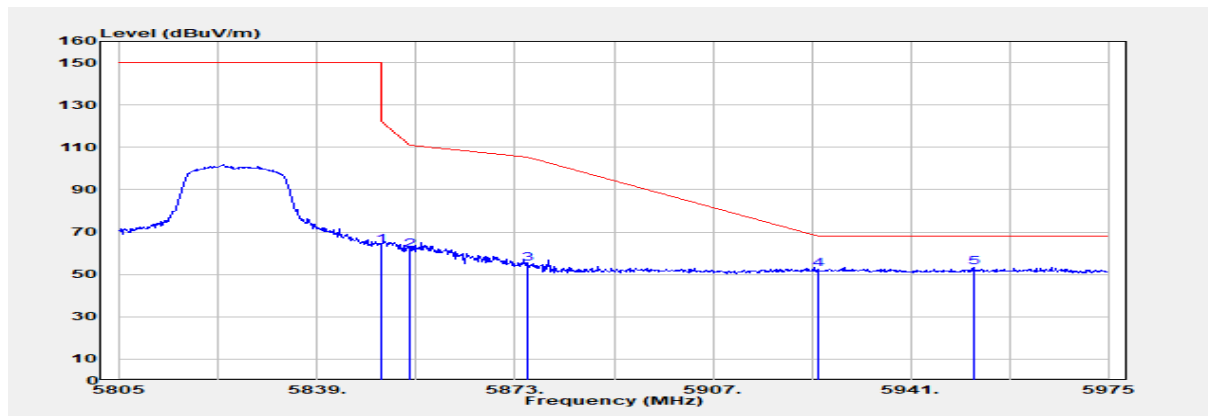
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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	65.48	-1.57	63.91	122.20	-58.29
5855.000	Peak	62.85	-1.42	61.43	110.80	-49.37
5875.000	Peak	56.56	-1.42	55.14	105.20	-50.06
5925.000	Peak	53.53	-0.99	52.54	68.20	-15.66
5952.050	Peak	54.39	-1.07	53.33	68.20	-14.87

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac20 / Band 4

Test Date :2021-10-21

Test Frequency :5825 MHz

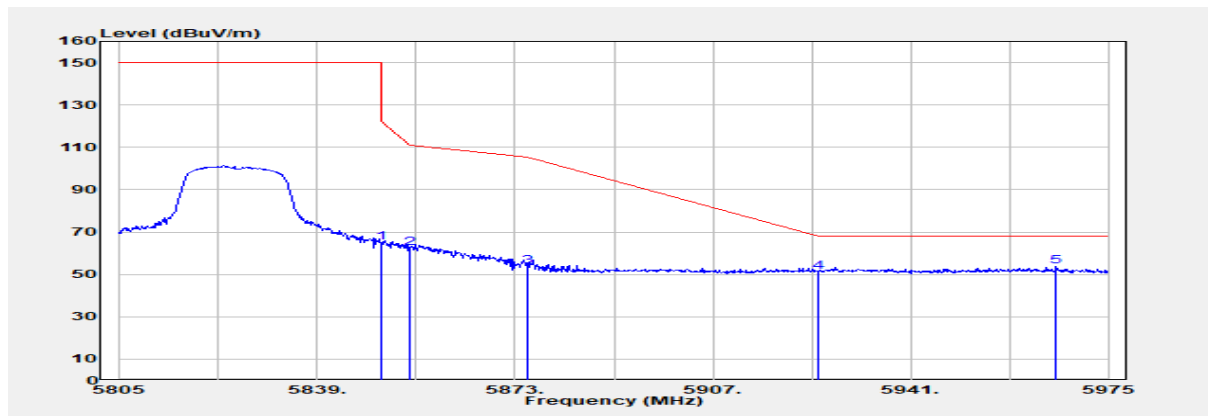
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



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	66.78	-1.57	65.21	122.20	-56.99
5855.000	Peak	63.99	-1.42	62.57	110.80	-48.23
5875.000	Peak	55.22	-1.42	53.80	105.20	-51.40
5925.000	Peak	52.27	-0.99	51.28	68.20	-16.92
5965.990	Peak	54.72	-1.05	53.67	68.20	-14.53

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 1

Test Date :2021-10-21

Test Frequency :5190 MHz

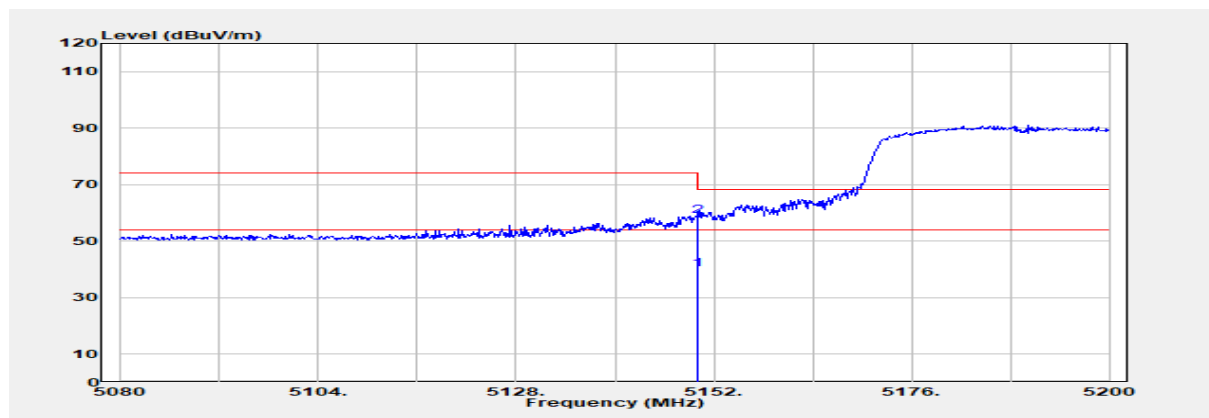
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	42.67	-2.53	40.14	54.00	-13.86
5150.000	Peak	61.42	-2.53	58.89	74.00	-15.11

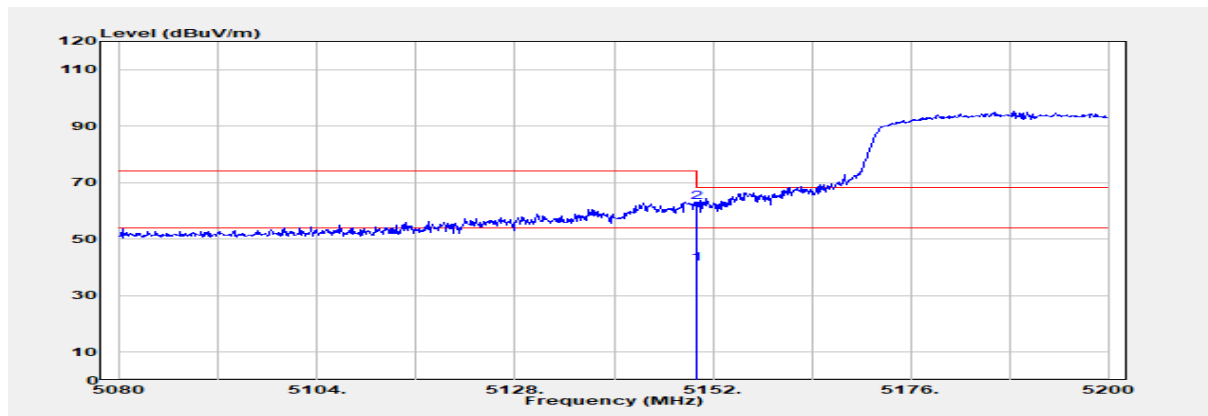
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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
5150.000	Average	43.90	-2.53	41.37	54.00	-12.63
5150.000	Peak	65.73	-2.53	63.21	74.00	-10.79

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 2

Test Date :2021-10-21

Test Frequency :5310 MHz

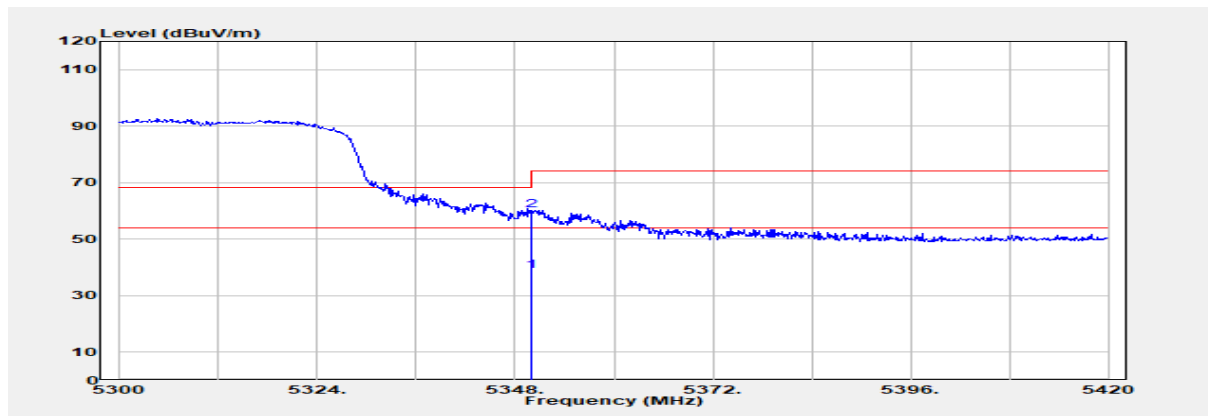
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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
5350.000	Average	41.47	-2.66	38.80	54.00	-15.20
5350.000	Peak	62.97	-2.66	60.31	74.00	-13.69

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 2

Test Date :2021-10-21

Test Frequency :5310 MHz

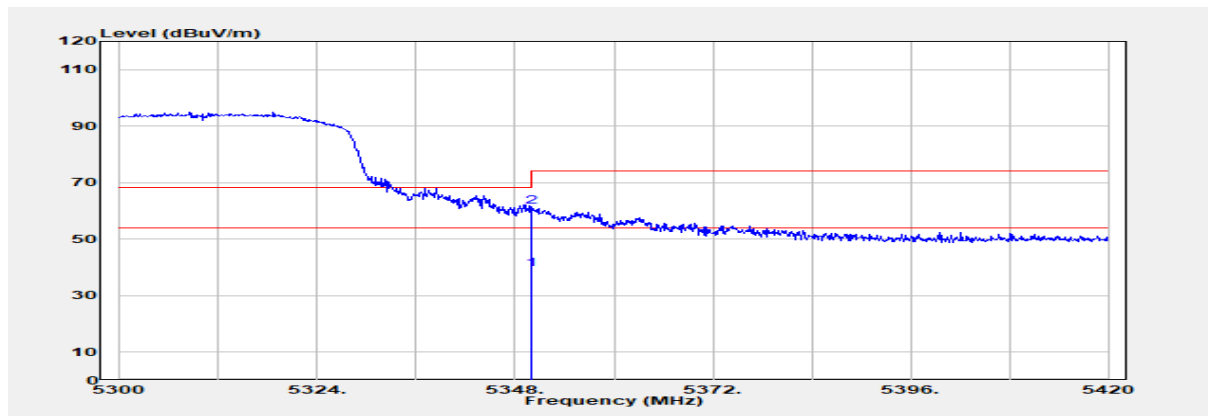
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



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	41.98	-2.66	39.32	54.00	-14.68
5350.000	Peak	64.28	-2.66	61.62	74.00	-12.38

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-10-21

Test Frequency :5510 MHz

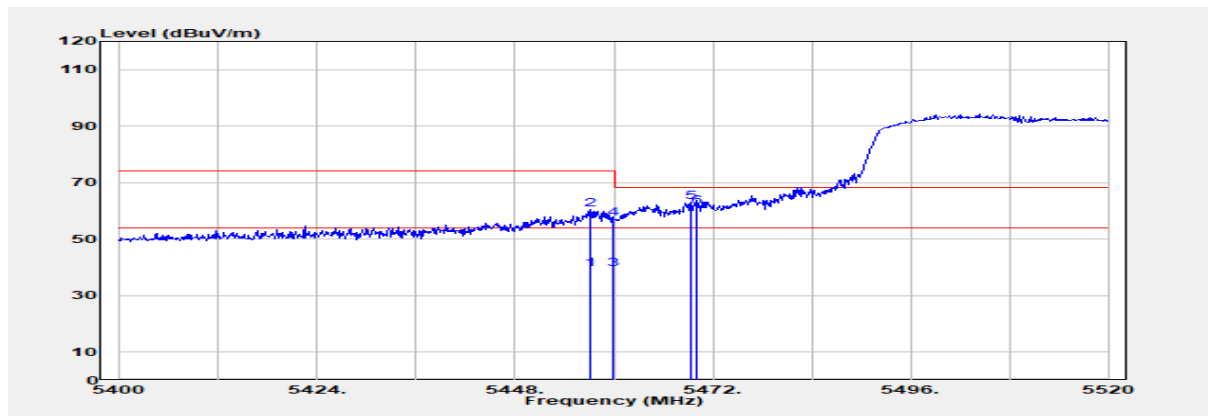
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.120	Average	41.48	-2.25	39.24	54.00	-14.76
5457.120	Peak	62.68	-2.25	60.43	74.00	-13.57
5460.000	Average	41.54	-2.18	39.36	54.00	-14.64
5460.000	Peak	59.57	-2.18	57.39	74.00	-16.61
5469.240	Peak	65.54	-2.34	63.21	68.20	-4.99
5470.000	Peak	63.82	-2.35	61.47	68.20	-6.73

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-10-21

Test Frequency :5510 MHz

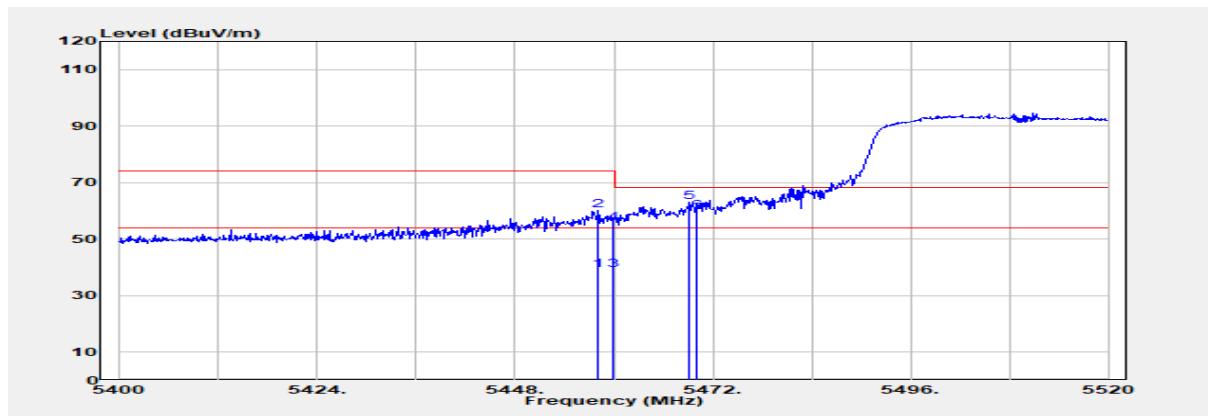
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.080	Average	41.16	-2.23	38.94	54.00	-15.06
5458.080	Peak	62.50	-2.23	60.27	74.00	-13.73
5460.000	Average	41.27	-2.18	39.09	54.00	-14.91
5460.000	Peak	57.88	-2.18	55.70	74.00	-18.30
5469.120	Peak	65.44	-2.33	63.10	68.20	-5.10
5470.000	Peak	62.33	-2.35	59.98	68.20	-8.22

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-10-21

Test Frequency :5670 MHz

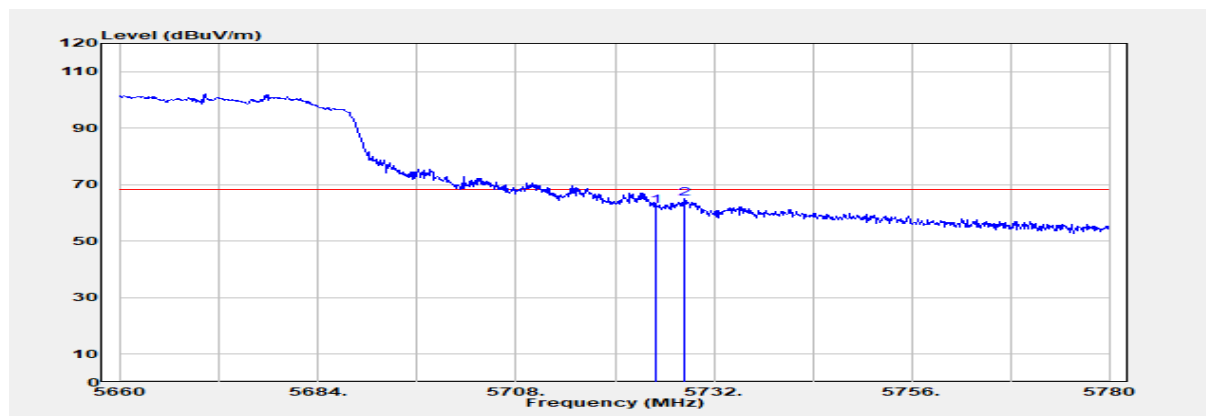
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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	64.45	-1.98	62.48	68.20	-5.72
5728.520	Peak	67.22	-2.17	65.05	68.20	-3.15

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-10-21

Test Frequency :5670 MHz

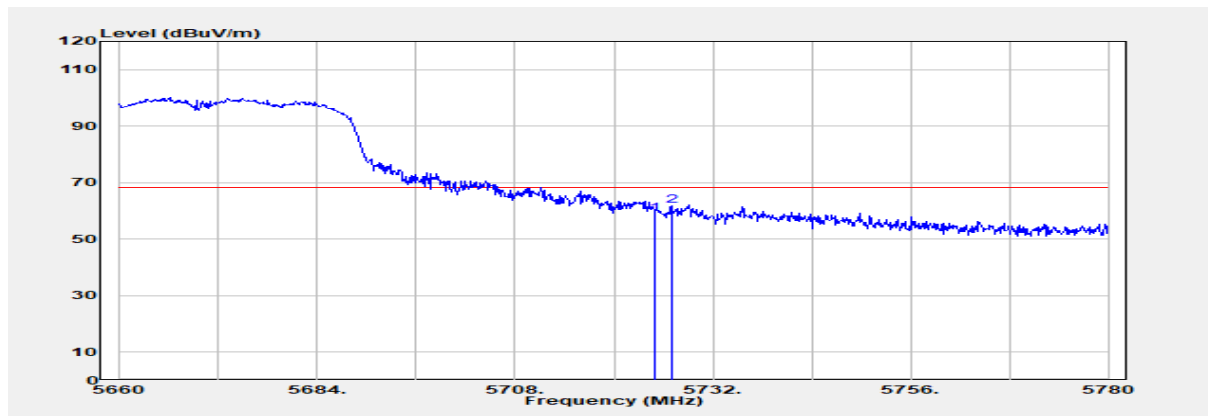
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



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	60.99	-1.98	59.01	68.20	-9.19
5726.960	Peak	64.00	-2.09	61.92	68.20	-6.28

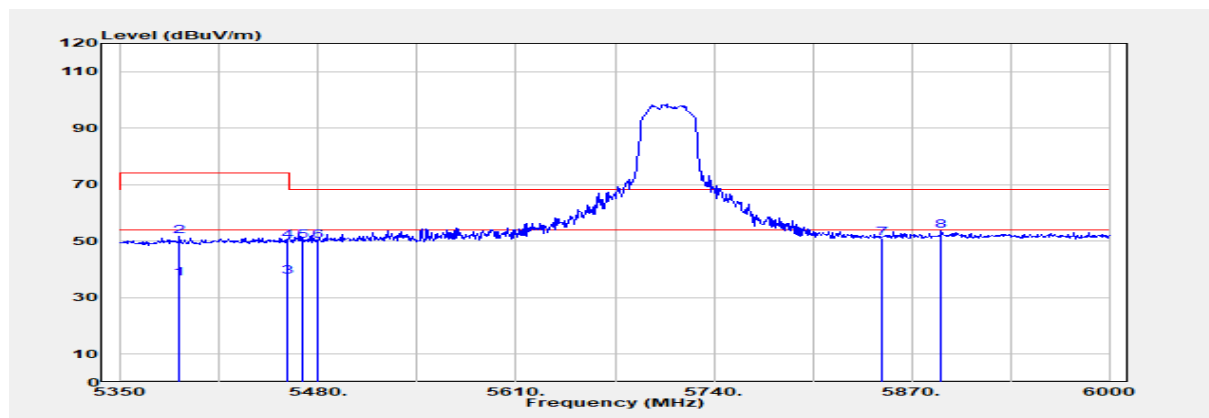
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac40 / Band3-4
 Test Frequency :5710 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5388.350	Average	39.42	-2.59	36.83	54.00	-17.17
5388.350	Peak	54.23	-2.59	51.64	74.00	-22.36
5460.000	Average	39.68	-2.18	37.50	54.00	-16.50
5460.000	Peak	52.30	-2.18	50.11	74.00	-23.89
5470.000	Peak	52.42	-2.35	50.07	68.20	-18.13
5480.000	Peak	52.49	-2.33	50.16	68.20	-18.04
5850.000	Peak	52.57	-1.57	51.00	68.20	-17.20
5889.500	Peak	54.58	-1.08	53.50	68.20	-14.70

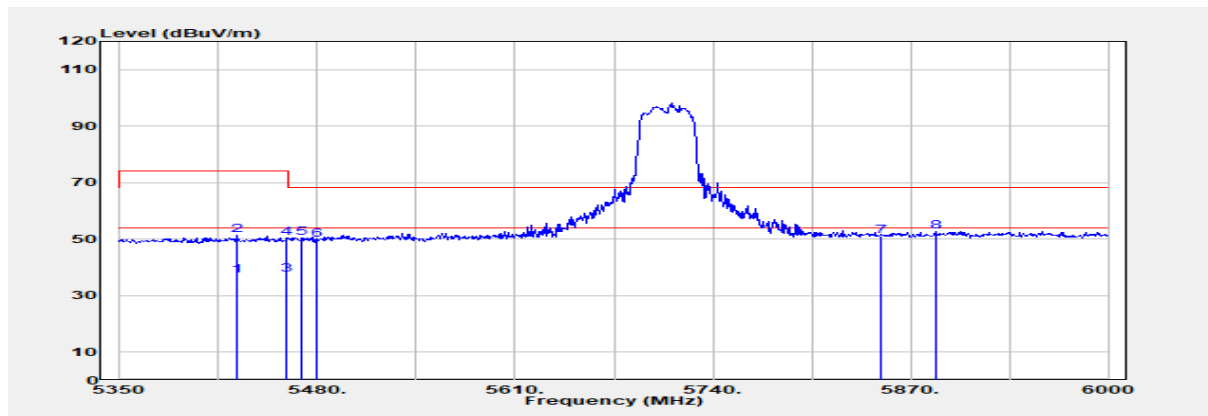
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac40 / Band3-4
 Test Frequency :5710 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5427.350	Average	39.54	-2.48	37.06	54.00	-16.94
5427.350	Peak	53.98	-2.48	51.50	74.00	-22.50
5460.000	Average	39.59	-2.18	37.40	54.00	-16.60
5460.000	Peak	52.57	-2.18	50.39	74.00	-23.61
5470.000	Peak	52.87	-2.35	50.53	68.20	-17.67
5480.000	Peak	51.97	-2.33	49.64	68.20	-18.56
5850.000	Peak	52.78	-1.57	51.21	68.20	-16.99
5886.250	Peak	54.00	-1.20	52.80	68.20	-15.40

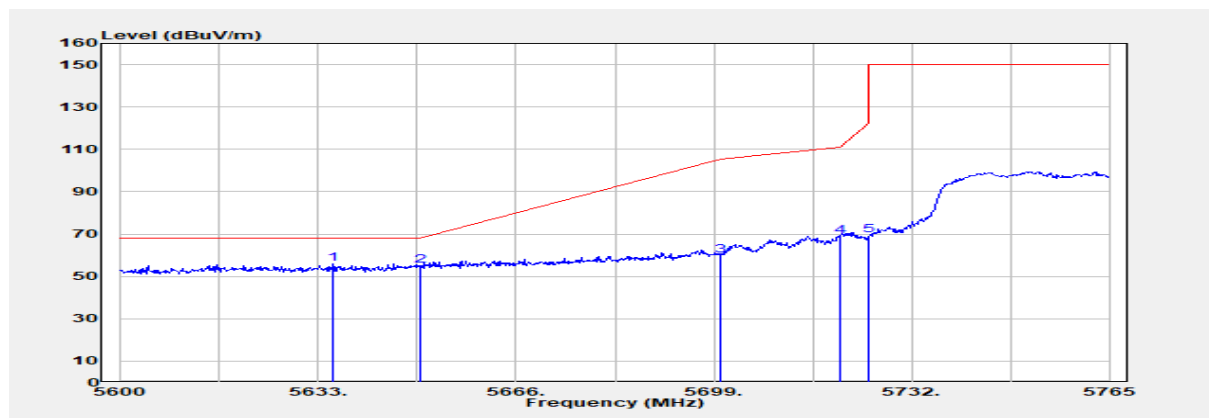
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5635.475	Peak	57.99	-2.22	55.77	68.20	-12.43
5650.000	Peak	57.47	-2.20	55.27	68.20	-12.93
5700.000	Peak	62.07	-2.17	59.90	105.20	-45.30
5720.000	Peak	70.45	-1.70	68.75	110.80	-42.05
5725.000	Peak	71.22	-1.98	69.24	122.20	-52.96

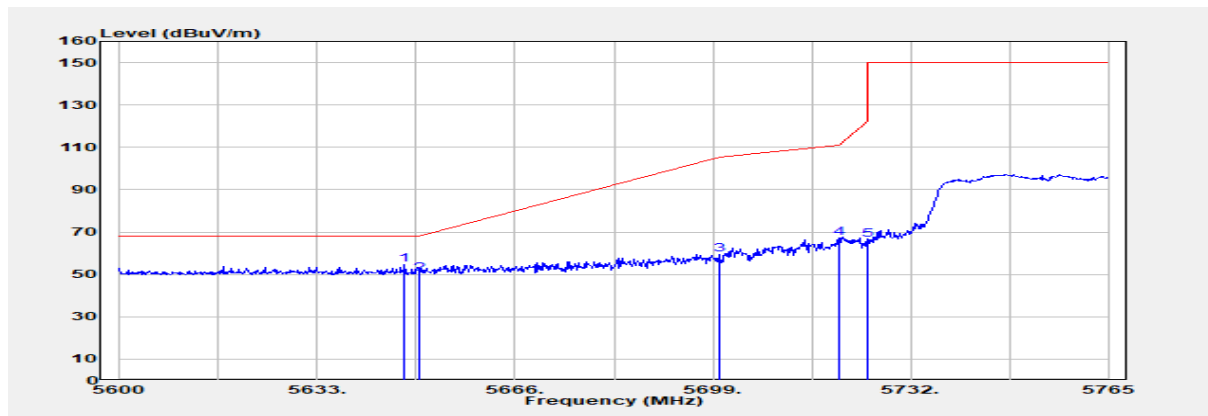
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.520	Peak	56.72	-2.23	54.49	68.20	-13.71
5650.000	Peak	52.64	-2.20	50.44	68.20	-17.76
5700.000	Peak	61.38	-2.17	59.21	105.20	-45.99
5720.000	Peak	68.80	-1.70	67.10	110.80	-43.70
5725.000	Peak	68.44	-1.98	66.46	122.20	-55.74

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac40 / Band 4

Test Date :2021-10-21

Test Frequency :5785 MHz

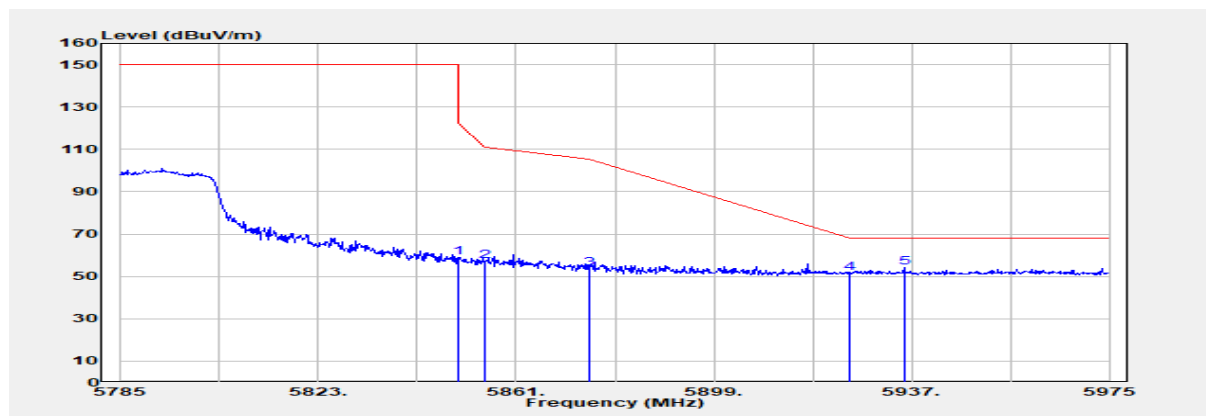
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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	60.50	-1.57	58.93	122.20	-63.27
5855.000	Peak	58.58	-1.42	57.16	110.80	-53.64
5875.000	Peak	55.08	-1.42	53.66	105.20	-51.54
5925.000	Peak	52.66	-0.99	51.67	68.20	-16.53
5935.670	Peak	55.50	-1.08	54.41	68.20	-13.79

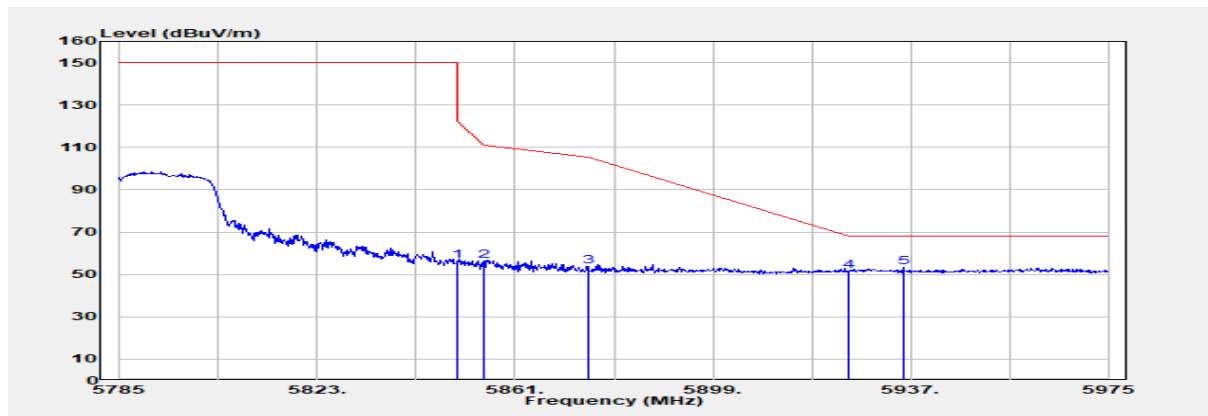
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5785 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	57.97	-1.57	56.40	122.20	-65.80
5855.000	Peak	57.65	-1.42	56.23	110.80	-54.57
5875.000	Peak	55.14	-1.42	53.72	105.20	-51.48
5925.000	Peak	52.59	-0.99	51.60	68.20	-16.60
5935.670	Peak	54.47	-1.08	53.39	68.20	-14.81

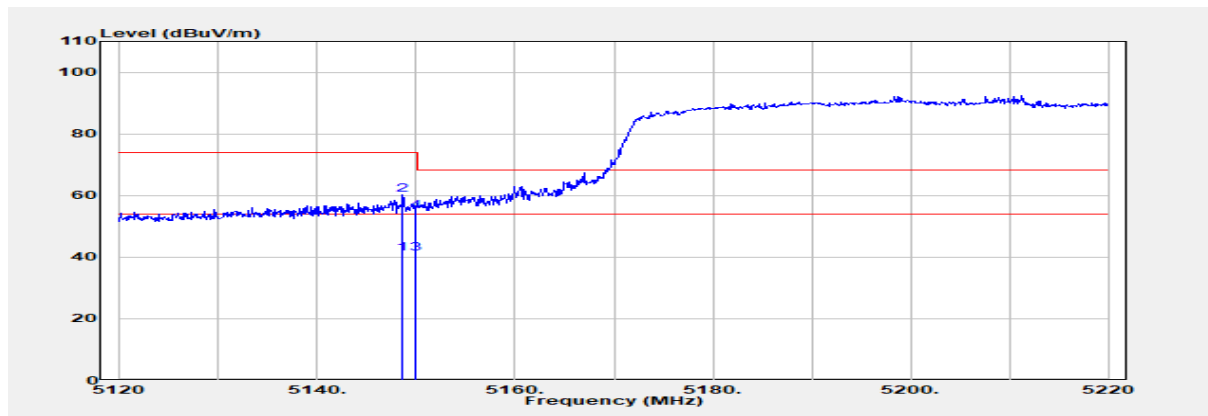
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.600	Average	43.71	-2.51	41.20	54.00	-12.80
5148.600	Peak	62.59	-2.51	60.08	74.00	-13.92
5150.000	Average	43.75	-2.53	41.22	54.00	-12.78
5150.000	Peak	57.40	-2.53	54.87	74.00	-19.13

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-21

Test Frequency :5210 MHz

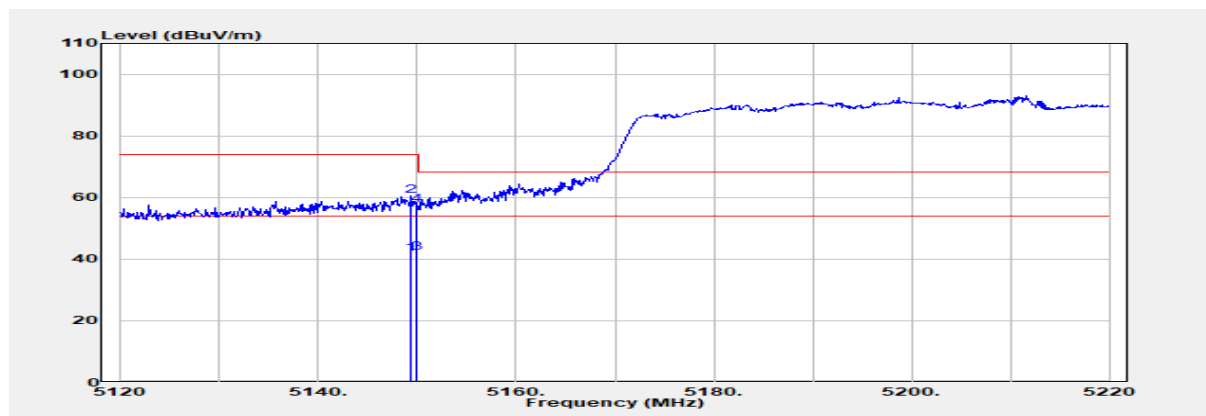
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.400	Average	44.34	-2.52	41.82	54.00	-12.18
5149.400	Peak	62.94	-2.52	60.42	74.00	-13.58
5150.000	Average	44.45	-2.53	41.92	54.00	-12.08
5150.000	Peak	60.11	-2.53	57.58	74.00	-16.42

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 2

Test Date :2021-10-21

Test Frequency :5290 MHz

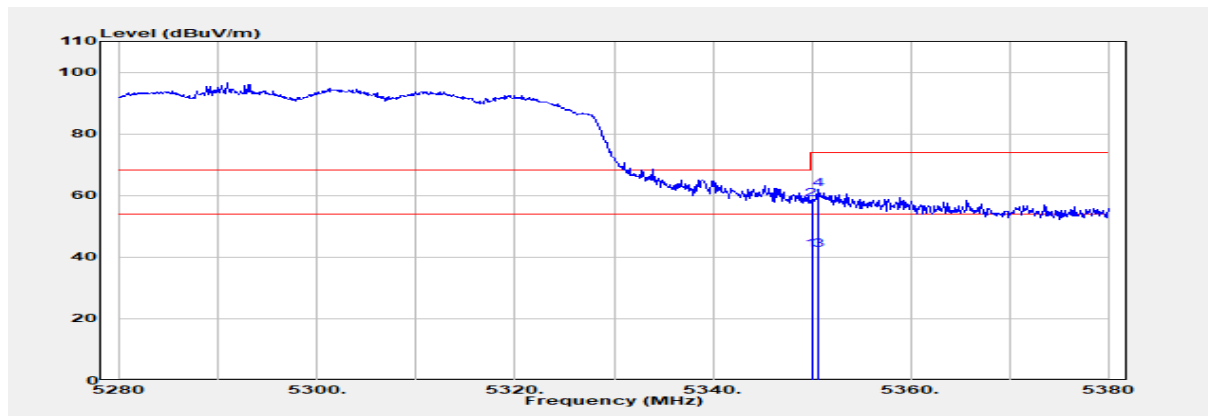
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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	45.12	-2.66	42.45	54.00	-11.55
5350.000	Peak	61.51	-2.66	58.84	74.00	-15.16
5350.700	Average	44.96	-2.69	42.27	54.00	-11.73
5350.700	Peak	64.57	-2.69	61.88	74.00	-12.12

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 2

Test Date :2021-10-21

Test Frequency :5290 MHz

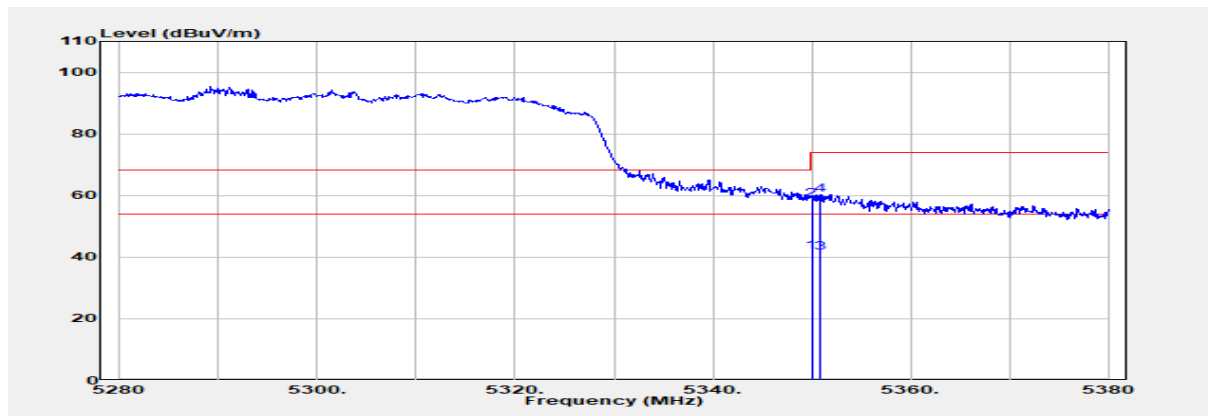
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



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	-2.66	41.86	54.00	-12.14
5350.000	Peak	61.30	-2.66	58.64	74.00	-15.36
5350.800	Average	44.28	-2.70	41.58	54.00	-12.42
5350.800	Peak	63.06	-2.70	60.36	74.00	-13.64

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-21

Test Frequency :5530 MHz

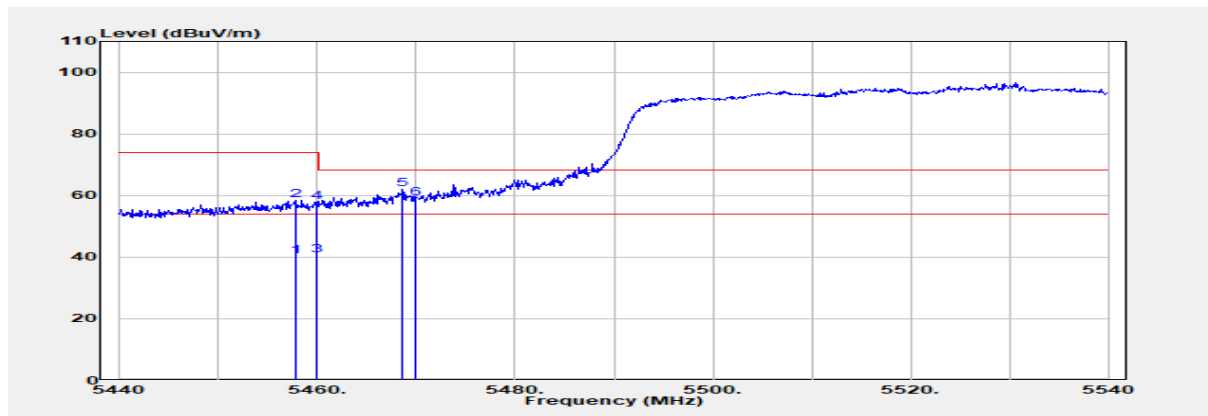
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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	42.57	-2.23	40.34	54.00	-13.66
5457.800	Peak	60.79	-2.23	58.56	74.00	-15.44
5460.000	Average	42.70	-2.18	40.52	54.00	-13.48
5460.000	Peak	60.04	-2.18	57.86	74.00	-16.14
5468.600	Peak	64.47	-2.32	62.15	68.20	-6.05
5470.000	Peak	61.45	-2.35	59.11	68.20	-9.09

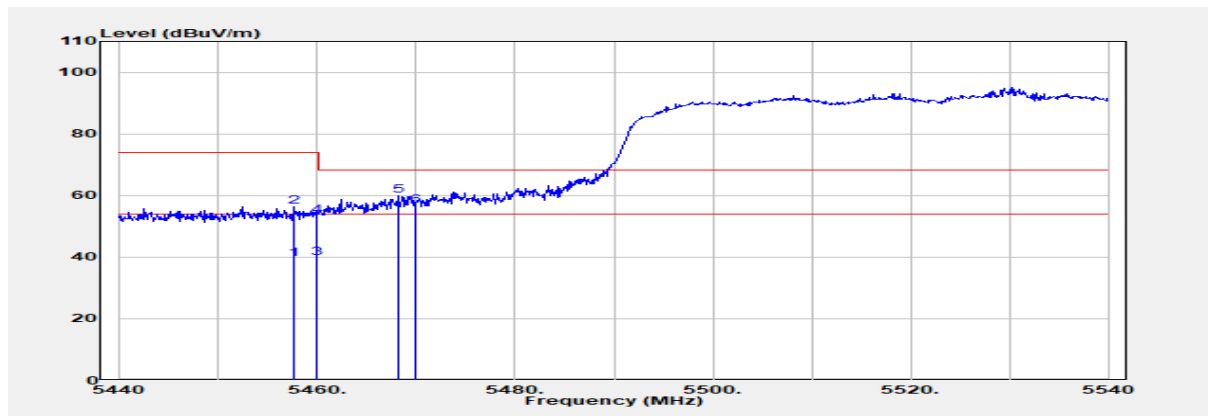
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.700	Average	41.67	-2.24	39.43	54.00	-14.57
5457.700	Peak	58.59	-2.24	56.35	74.00	-17.65
5460.000	Average	41.69	-2.18	39.51	54.00	-14.49
5460.000	Peak	55.68	-2.18	53.50	74.00	-20.50
5468.200	Peak	62.16	-2.32	59.84	68.20	-8.36
5470.000	Peak	59.12	-2.35	56.77	68.20	-11.43

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-21

Test Frequency :5690 MHz

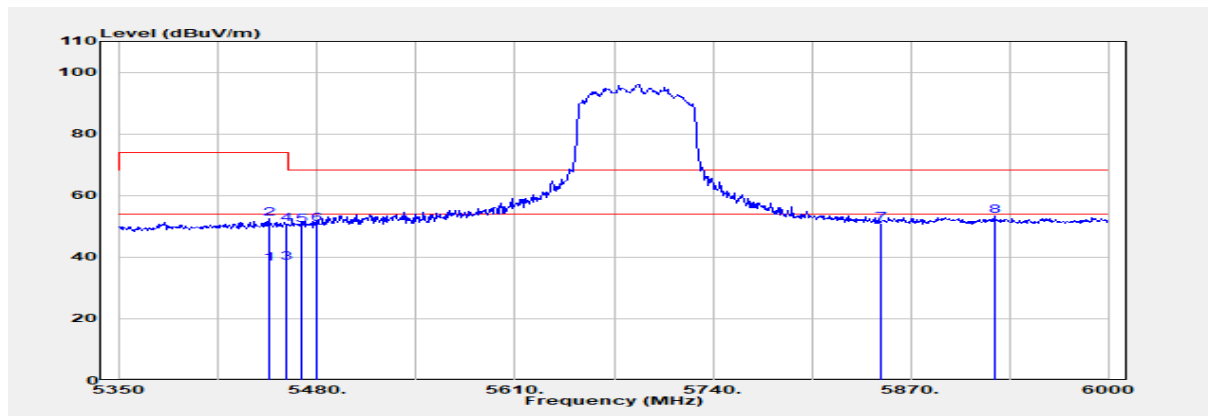
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5448.150	Average	40.24	-2.41	37.83	54.00	-16.17
5448.150	Peak	54.85	-2.41	52.44	74.00	-21.56
5460.000	Average	40.20	-2.18	38.01	54.00	-15.99
5460.000	Peak	52.96	-2.18	50.78	74.00	-23.22
5470.000	Peak	52.74	-2.35	50.39	68.20	-17.81
5480.000	Peak	52.94	-2.33	50.61	68.20	-17.59
5850.000	Peak	52.60	-1.57	51.03	68.20	-17.17
5925.250	Peak	54.33	-0.99	53.35	68.20	-14.85

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-21

Test Frequency :5690 MHz

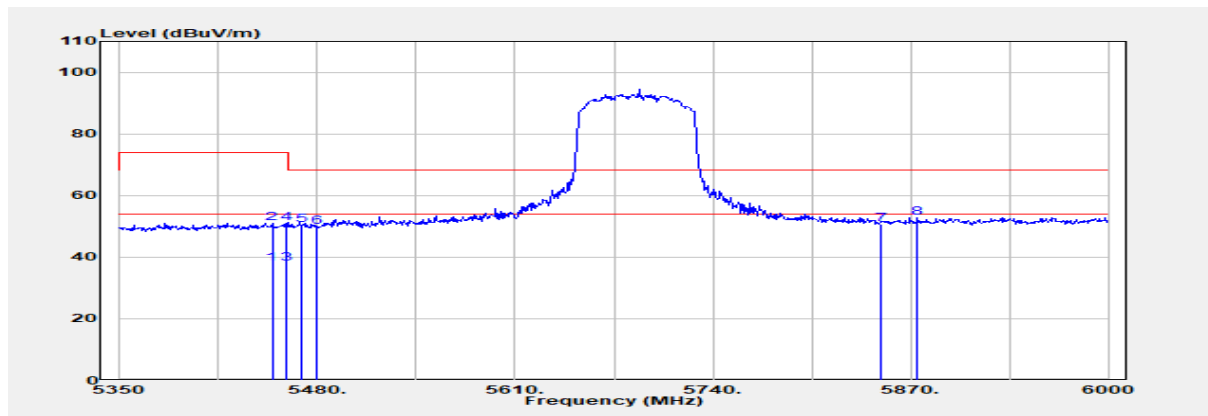
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



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	40.22	-2.41	37.81	54.00	-16.19
5450.100	Peak	53.47	-2.41	51.06	74.00	-22.94
5460.000	Average	40.17	-2.18	37.98	54.00	-16.02
5460.000	Peak	53.27	-2.18	51.08	74.00	-22.92
5470.000	Peak	52.67	-2.35	50.33	68.20	-17.87
5480.000	Peak	52.23	-2.33	49.89	68.20	-18.31
5850.000	Peak	52.26	-1.57	50.69	68.20	-17.51
5874.550	Peak	54.31	-1.42	52.89	68.20	-15.31

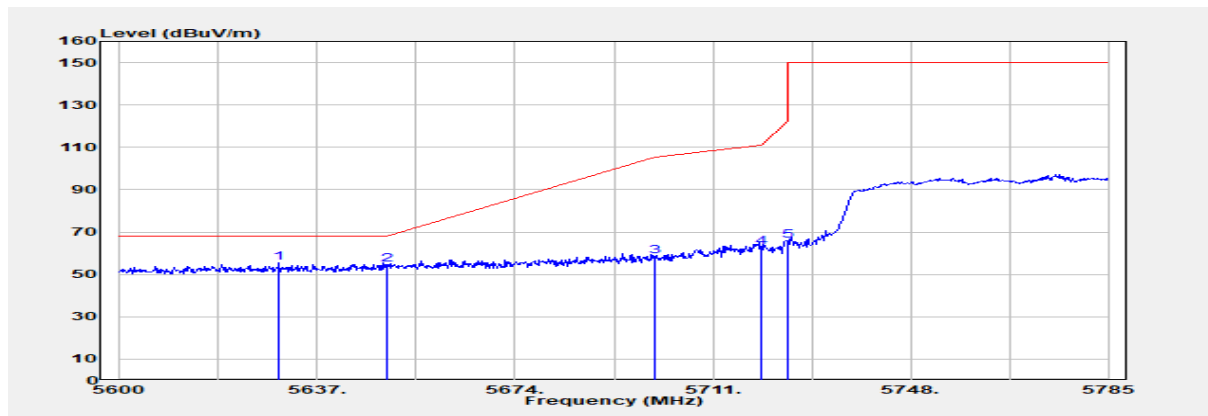
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5629.785	Peak	57.56	-2.10	55.46	68.20	-12.74
5650.000	Peak	56.69	-2.20	54.49	68.20	-13.71
5700.000	Peak	60.65	-2.17	58.48	105.20	-46.72
5720.000	Peak	64.68	-1.70	62.98	110.80	-47.82
5725.000	Peak	67.87	-1.98	65.89	122.20	-56.31

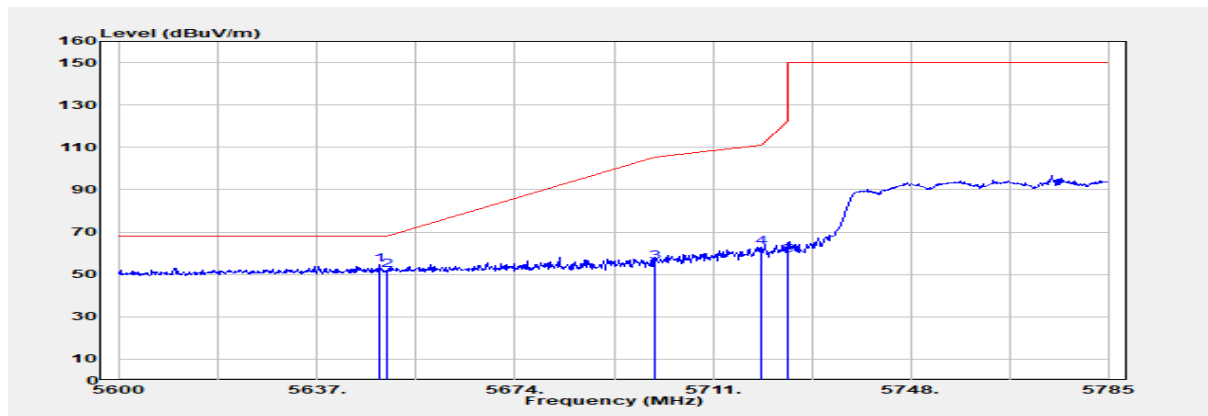
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Report Number :E2-2021-A0061
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-21
 Temp./Humi. :22.1/70
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.470	Peak	56.76	-2.22	54.54	68.20	-13.66
5650.000	Peak	54.21	-2.20	52.01	68.20	-16.19
5700.000	Peak	57.95	-2.17	55.78	105.20	-49.42
5720.000	Peak	64.67	-1.70	62.97	110.80	-47.83
5725.000	Peak	61.12	-1.98	59.14	122.20	-63.06

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-21

Test Frequency :5775 MHz

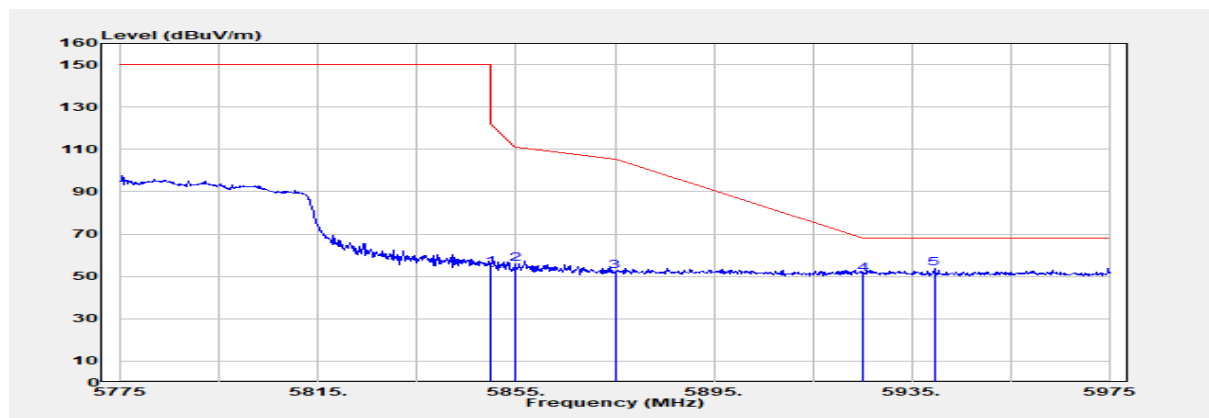
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



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	55.81	-1.57	54.24	122.20	-67.96
5855.000	Peak	57.27	-1.42	55.85	110.80	-54.95
5875.000	Peak	53.98	-1.42	52.55	105.20	-52.65
5925.000	Peak	51.95	-0.99	50.96	68.20	-17.24
5939.600	Peak	55.08	-1.22	53.86	68.20	-14.34

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Report Number :E2-2021-A0061

Test Site :SAC D

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-21

Test Frequency :5775 MHz

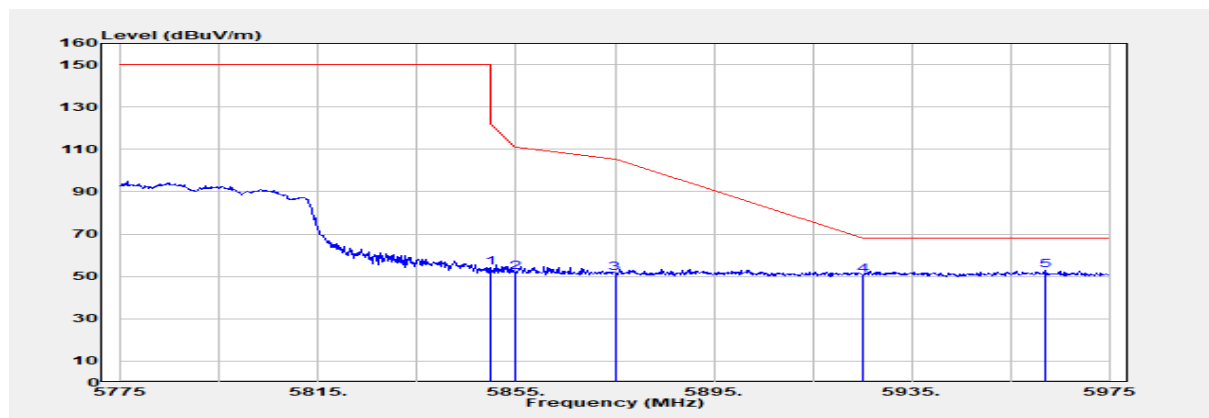
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng



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	55.68	-1.57	54.11	122.20	-68.09
5855.000	Peak	53.35	-1.42	51.94	110.80	-58.86
5875.000	Peak	53.16	-1.42	51.74	105.20	-53.46
5925.000	Peak	51.89	-0.99	50.90	68.20	-17.30
5962.200	Peak	53.58	-0.83	52.75	68.20	-15.45

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7 ANTENNA REQUIREMENT

7.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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