

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT****CLASS II PC REPORT**

Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)

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

Brand Name: *acer*

Model No.: MT7921

Model Difference: N/A

Report Number: E2/2021/80020

FCC ID HLZMT7921

Issue Date: October 7, 2021

Date of Test: August 19, 2021 ~ September 15, 2021

Date of EUT Received: August 13, 2021

Approved By

Jazz Huang
Jazz Huang

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
E2/2021/80020	00	Original	October 7, 2021	Ariel Chang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name	Notebook Computer
Brand Name	<i>acer</i>
Model No. of FCC Host	N21Q5
Model No. of IC Host	CB514-2H,CB514-2HT
Model Difference	For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.
Hardware Version	N/A
Software Version	N/A
EUT Series No.	N8AS2WW0011190E3AA7600
Model No. of BT/WLAN Module	MT7921
Class II Permissive change	2TX 11ax (WiFi6) + BLE Combo Card installed in Notebook Computer
Power Supply	11.25Vdc from Rechargeable Li-polymer Battery or 19Vdc from AC/DC Adapter

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
	1024QAM for OFDMA in 802.11ax only
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps
	802.11 ax_20MHz: 8.6 - 286.8 Mbps
	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	DQ6K15G5900(81EAB K15.G59)	Main	5150~5250	3.49	V
				5250~5350	3.52	V
				5470~5725	3.05	
				5725~5850	2.94	
		DQ6K15G5900(81EAB K15.G59)	Aux	5150~5250	2.98	
				5250~5350	2.98	
				5470~5725	3.34	V
				5725~5850	3.34	V

Note:

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

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1.4 FCC

WLAN 5 GHz

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT ac_VHT ax_HE 20M	5180~5240	4	21.80 dBm	OFDM
	5260~5320	4	21.86 dBm	OFDM
	5500~5700	11	21.90 dBm	OFDM
	5745-5825	5	22.88 dBm	OFDM
n_HT ac_VHT ax_HE 40M	5190~5230	2	20.66 dBm	OFDMA
	5270~5310	2	20.83 dBm	OFDMA
	5510~5670	5	20.54 dBm	OFDMA
	5755-5795	2	20.63 dBm	OFDMA
ac_VHT ax_HE 80M	5210	1	17.09 dBm	OFDMA
	5290	1	17.38 dBm	OFDMA
	5530~5610	2	19.59 dBm	OFDMA
	5775	1	19.44 dBm	OFDMA

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 ANSI C63.10:2013

1.6 Test Facility

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

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

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1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

Radiated emission below 30MHz is measured in a 9m*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 Test Configuration

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) 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
2	Adapter	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)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M		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				
112	5560	126	5630				
116	5580	134	5670				
120	5600						
124	5620						
128	5640						
132	5660						
136	5680						
140	5700						

Operated band in 5725 MHz ~5850 MHz:

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

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4.2 The Worst Test Modes and Channel Details

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

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

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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.

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,110,134			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 122	106,122			
	5775	155	155			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATIO	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU	MCS0	MIMO
	5260~5320	52 to 64	52,60,64				
	5500~5700	100 to 140	100,116,140				
	5745~5825	149 to 165	149,157,165				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	MIMO
	5270~5310	54 to 62	54,62				
	5510~5670	102 to 134	102,110,134				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU	MCS0	MIMO
	5290	58	58				
	5530~5610	106 to 122	106,122				
	5775	155	155				

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

6.1.1 Output Power

FCC

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

If transmitting antennas of directional gain greater than the Antenna Directional Gain Requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

6.2 Measurement Equipment Used

6.2.1 Output Power

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	08/12/2021	08/11/2022
Power Sensor	Anritsu	MA2411B	1315048	08/12/2021	08/11/2022
Power Sensor	Anritsu	MA2411B	1315049	08/12/2021	08/11/2022
Attenuator	Marvelous	WATT-218FS-10	RF18	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021

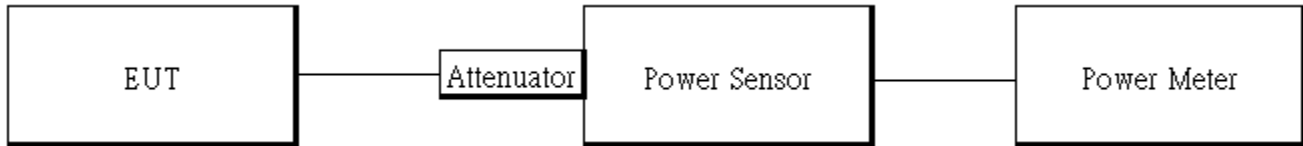
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6.3 Test Set-up

6.3.1 Output Power



6.4 Measurement Procedure

6.4.1 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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6.5 Output Power Measurement Result

6.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	9	12.01	15.877	23.98	PASS
44	5220	6	9	12.05	16.024	23.98	PASS
48	5240	6	9	11.90	15.480	23.98	PASS
52	5260	6	11	14.82	30.323	23.98	PASS
60	5300	6	11	14.67	29.294	23.98	PASS
64	5320	6	11	14.71	29.565	23.98	PASS
100	5500	6	13.5	16.40	43.629	23.98	PASS
116	5580	6	16.5	19.02	79.758	23.98	PASS
140	5700	6	13.5	16.69	46.642	23.98	PASS
149	5745	6	17	19.90	97.673	30	PASS
157	5785	6	17	19.76	94.574	30	PASS
165	5825	6	17.5	19.93	98.350	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	9.5	11.81	15.163	23.98	PASS
44	5220	6	9.5	11.73	14.886	23.98	PASS
48	5240	6	9.5	11.90	15.480	23.98	PASS
52	5260	6	12	14.67	29.294	23.98	PASS
60	5300	6	12	14.62	28.958	23.98	PASS
64	5320	6	12	14.59	28.759	23.98	PASS
100	5500	6	14.5	16.38	43.428	23.98	PASS
116	5580	6	17.5	18.57	71.907	23.98	PASS
140	5700	6	15	16.64	46.108	23.98	PASS
149	5745	6	18	19.62	91.574	30	PASS
157	5785	6	18	19.74	94.140	30	PASS
165	5825	6	18	19.78	95.011	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	9	11.01	12.56	14.95	31.261	23.98	PASS
44	5220	6	9	10.99	12.65	15.00	31.623	23.98	PASS
48	5240	6	9	10.78	12.79	15.00	31.623	23.98	PASS
52	5260	6	11	14.39	14.96	17.78	59.979	23.98	PASS
60	5300	6	11	14.15	14.97	17.68	58.614	23.98	PASS
64	5320	6	11	14.18	15.02	17.72	59.156	23.98	PASS
100	5500	6	12	15.41	17.15	19.46	88.308	23.98	PASS
116	5580	6	15.5	18.4	19.17	21.90	154.882	23.98	PASS
140	5700	6	13	15.65	17.44	19.73	93.972	23.98	PASS
149	5745	6	16	19.58	19.75	22.76	188.799	30	PASS
157	5785	6	16.5	19.35	20.08	22.83	191.867	30	PASS
165	5825	6	16.5	19.14	20.34	22.88	194.089	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10	11.87	15.391	23.98	PASS
44	5220	MCS0	10	11.93	15.605	23.98	PASS
48	5240	MCS0	10	11.80	15.145	23.98	PASS
52	5260	MCS0	12.5	14.54	28.463	23.98	PASS
60	5300	MCS0	12.5	14.58	28.726	23.98	PASS
64	5320	MCS0	13	14.49	28.137	23.98	PASS
100	5500	MCS0	15.5	16.93	49.349	23.98	PASS
116	5580	MCS0	18	18.70	74.178	23.98	PASS
140	5700	MCS0	14	15.91	39.019	23.98	PASS
149	5745	MCS0	16.5	18.53	71.331	30	PASS
157	5785	MCS0	17	18.48	70.514	30	PASS
165	5825	MCS0	17.5	18.69	74.008	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11	11.54	14.265	23.98	PASS
44	5220	MCS0	11	11.65	14.631	23.98	PASS
48	5240	MCS0	11	11.46	14.005	23.98	PASS
52	5260	MCS0	13.5	14.34	27.182	23.98	PASS
60	5300	MCS0	13.5	14.30	26.932	23.98	PASS
64	5320	MCS0	14	14.37	27.370	23.98	PASS
100	5500	MCS0	16.5	16.29	42.587	23.98	PASS
116	5580	MCS0	19.5	18.39	69.068	23.98	PASS
140	5700	MCS0	16.5	15.90	38.929	23.98	PASS
149	5745	MCS0	19	18.14	65.204	30	PASS
157	5785	MCS0	19	18.16	65.505	30	PASS
165	5825	MCS0	18.5	18.13	65.054	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	10	11.01	12	14.77	29.992	23.98	PASS
44	5220	MCS0	10	10.98	12.34	14.95	31.261	23.98	PASS
48	5240	MCS0	10	10.52	12.3	14.73	29.717	23.98	PASS
52	5260	MCS0	12.5	13.88	14.51	17.44	55.463	23.98	PASS
60	5300	MCS0	12.5	13.92	14.63	17.52	56.494	23.98	PASS
64	5320	MCS0	12	13.76	14.68	17.48	55.976	23.98	PASS
100	5500	MCS0	14	15.79	16.93	19.63	91.833	23.98	PASS
116	5580	MCS0	17	18.17	18.56	21.60	144.544	23.98	PASS
140	5700	MCS0	14	14.14	16.92	18.98	79.068	23.98	PASS
149	5745	MCS0	16.5	18.17	18.28	21.46	139.959	30	PASS
157	5785	MCS0	16.5	18.06	18.39	21.46	139.959	30	PASS
165	5825	MCS0	16.5	17.7	18.73	21.48	140.605	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14.5	14.67	29.306	23.98	PASS
46	5230	MCS0	14.5	14.76	29.920	23.98	PASS
54	5270	MCS0	14.5	14.71	29.577	23.98	PASS
62	5310	MCS0	14.5	14.68	29.374	23.98	PASS
102	5510	MCS0	15	14.92	31.043	23.98	PASS
110	5550	MCS0	17.5	17.34	54.195	23.98	PASS
134	5670	MCS0	17	17.40	54.949	23.98	PASS
151	5755	MCS0	16.5	17.34	54.195	30	PASS
159	5795	MCS0	17	17.41	55.076	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14.5	14.44	27.794	23.98	PASS
46	5230	MCS0	14.5	14.51	28.246	23.98	PASS
54	5270	MCS0	14.5	14.40	27.540	23.98	PASS
62	5310	MCS0	14.5	14.32	27.037	23.98	PASS
102	5510	MCS0	15	14.73	29.714	23.98	PASS
110	5550	MCS0	17.5	16.77	47.529	23.98	PASS
134	5670	MCS0	18	17.19	52.355	23.98	PASS
151	5755	MCS0	19	17.32	53.946	30	PASS
159	5795	MCS0	19	17.13	51.637	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	11	11.38	11.86	15.05	31.989	23.98	PASS
46	5230	MCS0	12	11.08	12.12	15.05	31.989	23.98	PASS
54	5270	MCS0	13.5	13.62	14.89	17.72	59.156	23.98	PASS
62	5310	MCS0	13.5	13.44	14.82	17.60	57.544	23.98	PASS
102	5510	MCS0	15	14.68	14.72	18.12	64.863	23.98	PASS
110	5550	MCS0	16	15.46	17.68	20.13	103.039	23.98	PASS
134	5670	MCS0	16	15.96	17.7	20.34	108.143	23.98	PASS
151	5755	MCS0	16.5	16.67	17.29	20.41	109.901	30	PASS
159	5795	MCS0	16.5	16.32	17.42	20.32	107.647	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13.5	14.02	25.210	23.98	PASS
58	5290	MCS0	13.5	14.11	25.738	23.98	PASS
106	5530	MCS0	15	15.12	32.477	23.98	PASS
122	5610	MCS0	17	16.32	42.814	23.98	PASS
155	5775	MCS0	16.5	16.39	43.509	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13	13.68	23.312	23.98	PASS
58	5290	MCS0	13	13.77	23.800	23.98	PASS
106	5530	MCS0	14	14.44	27.770	23.98	PASS
122	5610	MCS0	17	16.12	40.887	23.98	PASS
155	5775	MCS0	17	16.17	41.360	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	12.5	10.41	11.83	14.89	30.832	23.98	PASS
58	5290	MCS0	14	12.83	13.97	17.15	51.880	23.98	PASS
106	5530	MCS0	14.5	13.16	14.95	17.86	61.094	23.98	PASS
122	5610	MCS0	17	15.44	15.88	19.38	86.696	23.98	PASS
155	5775	MCS0	17	15.58	15.71	19.36	86.298	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	12	12.15	16.414	23.98	PASS
44	5220	MCS0	full	12	12.23	16.719	23.98	PASS
48	5240	MCS0	full	11.5	12.04	16.003	23.98	PASS
52	5260	MCS0	full	13.5	14.80	30.214	23.98	PASS
60	5300	MCS0	full	13.5	14.82	30.353	23.98	PASS
64	5320	MCS0	full	13.5	14.73	29.730	23.98	PASS
100	5500	MCS0	full	13	17.10	51.310	23.98	PASS
116	5580	MCS0	full	16	18.87	77.126	23.98	PASS
140	5700	MCS0	full	14	17.75	59.594	23.98	PASS
149	5745	MCS0	full	15	18.83	76.419	30	PASS
157	5785	MCS0	full	15	18.77	75.370	30	PASS
165	5825	MCS0	full	15	18.89	77.482	30	PASS

802.11ax_HE20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	13	11.93	15.603	23.98	PASS
44	5220	MCS0	full	13	11.84	15.283	23.98	PASS
48	5240	MCS0	full	12.5	11.88	15.424	23.98	PASS
52	5260	MCS0	full	14.5	14.45	27.874	23.98	PASS
60	5300	MCS0	full	14.5	14.48	28.067	23.98	PASS
64	5320	MCS0	full	14.5	14.53	28.392	23.98	PASS
100	5500	MCS0	full	15.5	16.56	45.311	23.98	PASS
116	5580	MCS0	full	18.5	18.74	74.852	23.98	PASS
140	5700	MCS0	full	16.5	17.40	54.980	23.98	PASS
149	5745	MCS0	full	17.5	18.45	70.017	30	PASS
157	5785	MCS0	full	17.5	18.54	71.483	30	PASS
165	5825	MCS0	full	17	18.45	70.017	30	PASS

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802.11ax_HE20_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
36	5180	MCS0	full	13	10.8	12.32	15.06	32.063	23.98	PASS
44	5220	MCS0	full	13	10.57	12.37	14.99	31.550	23.98	PASS
48	5240	MCS0	full	13	10.05	12.44	14.84	30.479	23.98	PASS
52	5260	MCS0	full	16	14.03	14.51	17.71	59.020	23.98	PASS
60	5300	MCS0	full	16	13.8	14.68	17.69	58.749	23.98	PASS
64	5320	MCS0	full	12	13.76	14.79	17.74	59.429	23.98	PASS
100	5500	MCS0	full	13	15.86	16.92	19.85	96.605	23.98	PASS
116	5580	MCS0	full	20.5	18.3	18.53	21.85	153.109	23.98	PASS
140	5700	MCS0	full	14	16.28	17.43	20.33	107.895	23.98	PASS
149	5745	MCS0	full	19.5	18.01	18.26	21.57	143.549	30	PASS
157	5785	MCS0	full	19.5	17.84	18.39	21.56	143.219	30	PASS
165	5825	MCS0	full	20.5	18.73	19.01	22.30	169.824	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	14	14.94	31.169	23.98	PASS
46	5230	MCS0	full	14	14.90	30.883	23.98	PASS
54	5270	MCS0	full	14	14.84	30.459	23.98	PASS
62	5310	MCS0	full	14	14.99	31.530	23.98	PASS
102	5510	MCS0	full	14.5	17.08	51.018	23.98	PASS
110	5550	MCS0	full	16	17.74	51.018	23.98	PASS
134	5670	MCS0	full	15.5	17.57	57.111	23.98	PASS
151	5755	MCS0	full	15	17.65	58.173	30	PASS
159	5795	MCS0	full	15	17.58	57.243	30	PASS

802.11ax_HE40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	15.5	14.80	30.180	23.98	PASS
46	5230	MCS0	full	15.5	14.77	29.972	23.98	PASS
54	5270	MCS0	full	15.5	14.72	29.629	23.98	PASS
62	5310	MCS0	full	15.5	14.68	29.358	23.98	PASS
102	5510	MCS0	full	16	16.62	45.890	23.98	PASS
110	5550	MCS0	full	17	17.16	45.890	23.98	PASS
134	5670	MCS0	full	17.5	17.55	56.849	23.98	PASS
151	5755	MCS0	full	17.5	17.56	56.980	30	PASS
159	5795	MCS0	full	17	17.41	55.045	30	PASS

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802.11ax_HE40_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
38	5190	MCS0	full	13.5	10.96	12.14	15.00	31.623	23.98	PASS
46	5230	MCS0	full	13.5	10.61	12.38	14.99	31.550	23.98	PASS
54	5270	MCS0	full	16.5	13.35	15.39	17.90	61.660	23.98	PASS
62	5310	MCS0	full	13	14.27	14.57	17.83	60.674	23.98	PASS
102	5510	MCS0	full	14	16.18	16.73	19.87	97.051	23.98	PASS
110	5550	MCS0	full	19	15.77	17.96	20.41	97.051	23.98	PASS
134	5670	MCS0	full	19	16.11	17.96	20.54	113.240	23.98	PASS
151	5755	MCS0	full	19	16.33	17.96	20.63	115.611	30	PASS
159	5795	MCS0	full	19	16.18	17.97	20.57	114.025	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	14	14.29	26.884	23.98	PASS
58	5290	MCS0	full	14	14.37	27.384	23.98	PASS
106	5530	MCS0	full	14	15.41	34.793	23.98	PASS
122	5610	MCS0	full	16	16.71	46.934	23.98	PASS
155	5775	MCS0	full	15	16.59	45.655	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	13.5	13.89	24.518	23.98	PASS
58	5290	MCS0	full	13.5	14.00	25.147	23.98	PASS
106	5530	MCS0	full	12.5	14.57	28.674	23.98	PASS
122	5610	MCS0	full	15.5	16.20	41.734	23.98	PASS
155	5775	MCS0	full	15.5	16.14	41.162	30	PASS

802.11ax_HE80_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
42	5210	MCS0	full	13	10.53	11.83	14.92	31.046	23.98	PASS
58	5290	MCS0	full	13.5	13.14	14.16	17.38	54.702	23.98	PASS
106	5530	MCS0	full	13.5	14.01	14.81	18.12	64.863	23.98	PASS
122	5610	MCS0	full	18	14.26	17.08	19.59	90.991	23.98	PASS
155	5775	MCS0	full	18.5	15.2	16.23	19.44	87.902	30	PASS

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7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

7.1 Standard Applicable

7.1.1 Band Edge

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

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

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

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

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7.1.2 Spurious Emission

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

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

Note:

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

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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
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	MY57120290	04/06/2021	04/05/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
High Pass Filter	R&S	HPF7.0	RF176	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0037	RF204	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、 210220、 210221	03/15/2021	03/14/2022

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

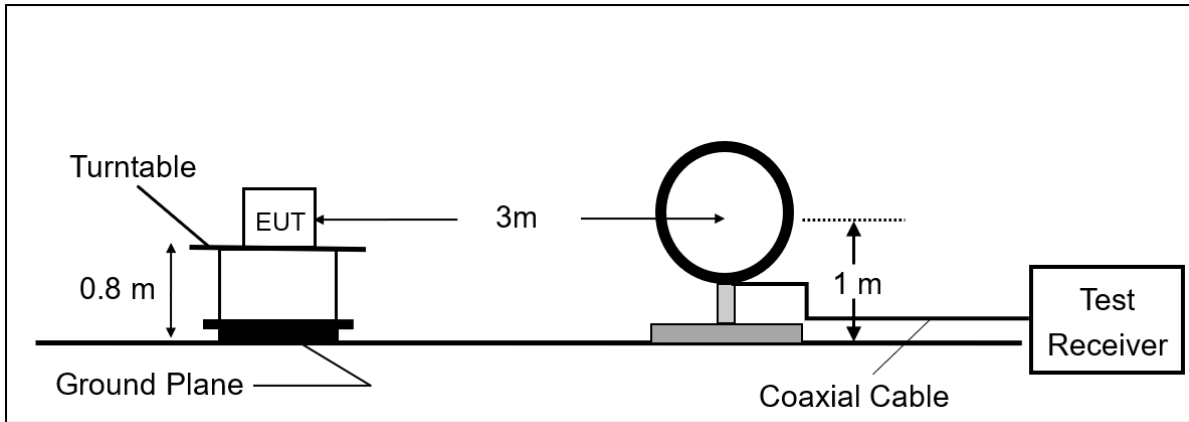
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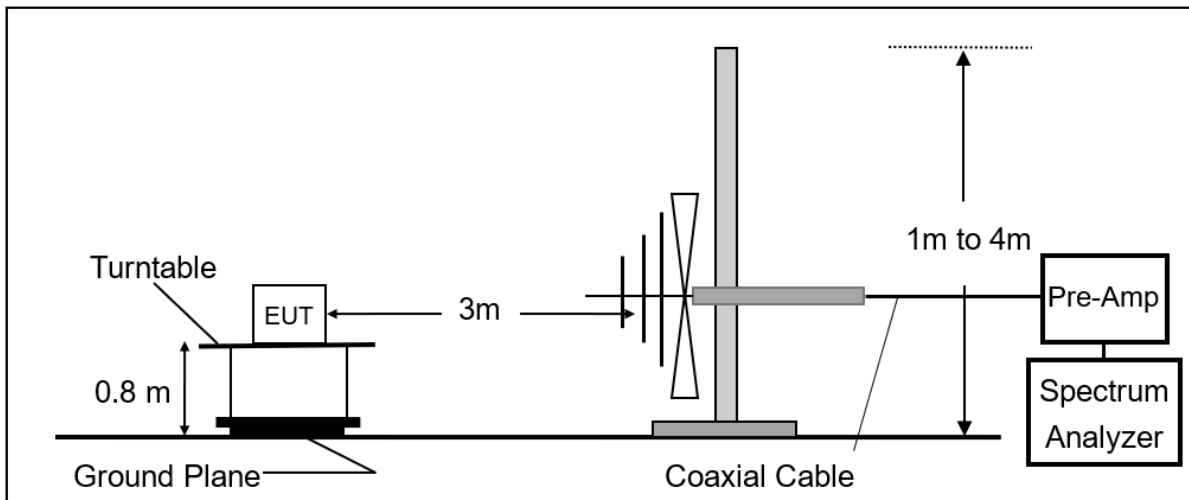
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7.3 Test SET-UP

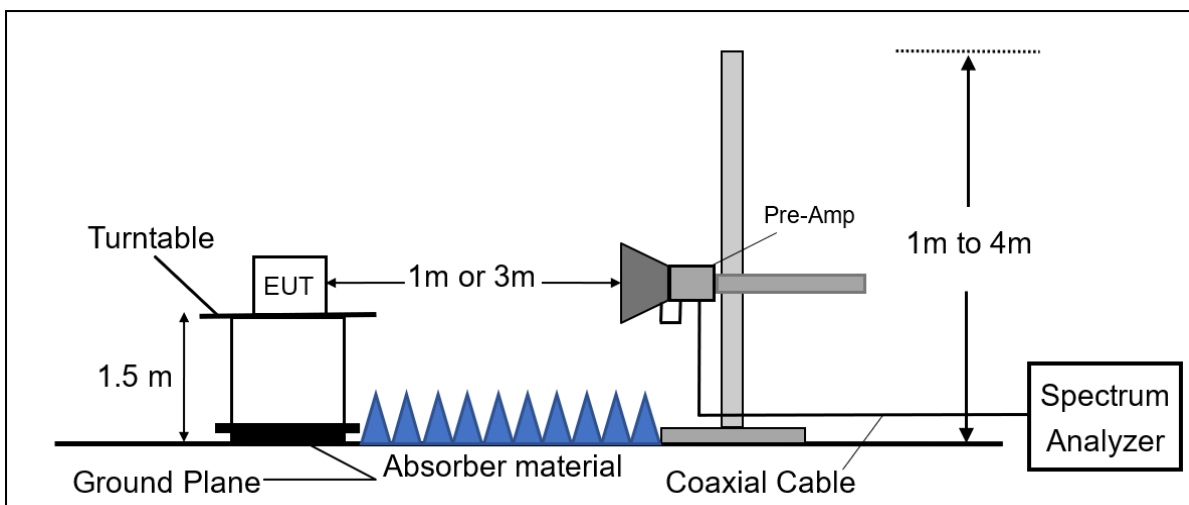
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.4 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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7.5 Field Strength Calculation

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

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

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

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

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

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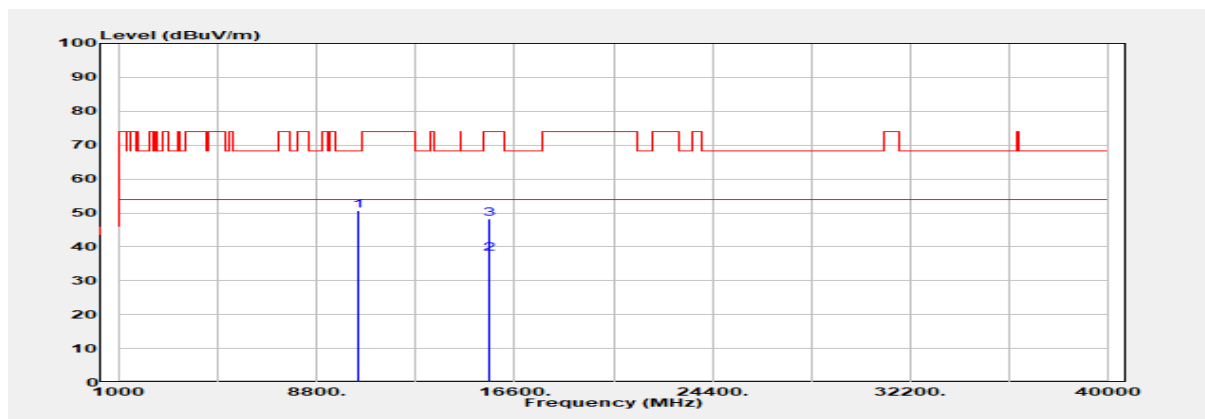
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7.7 Radiated Spurious Emission Measurement Result

7.7.1 Spurious Emission

Report Number	:E2/2021/80020	Test Site	:SAC G
Operation Mode	:802.11a / Band 1	Test Date	:2021-08-19
Test Frequency	:5200 MHz	Temp./Humi.	:24.5/60
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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10400.000	Peak	48.78	8.23	57.01	68.20	-11.19
15600.000	Average	27.16	11.27	38.43	54.00	-15.57
15600.000	Peak	36.52	11.27	47.79	74.00	-26.21

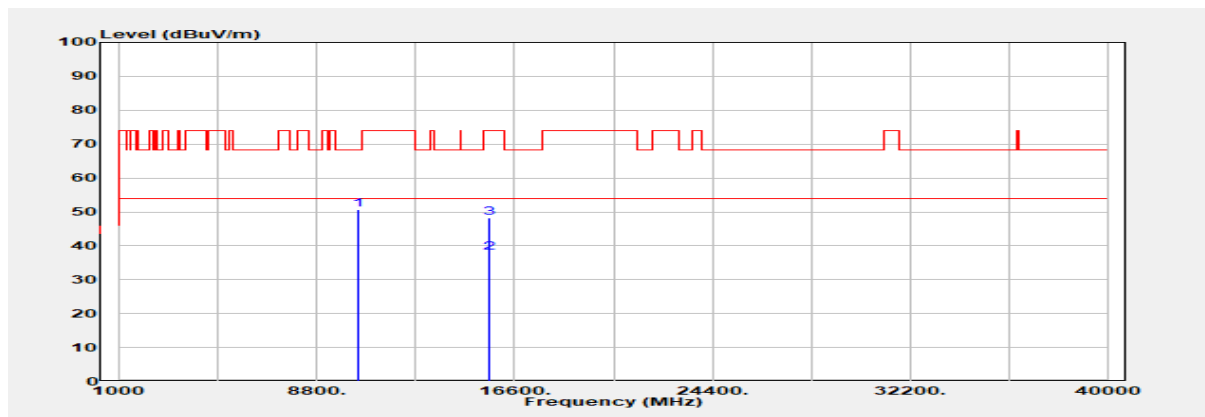
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 1
 Test Frequency :5200 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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	42.48	8.23	50.71	68.20	-17.49
15600.000	Average	26.71	11.27	37.98	54.00	-16.02
15600.000	Peak	36.87	11.27	48.14	74.00	-25.86

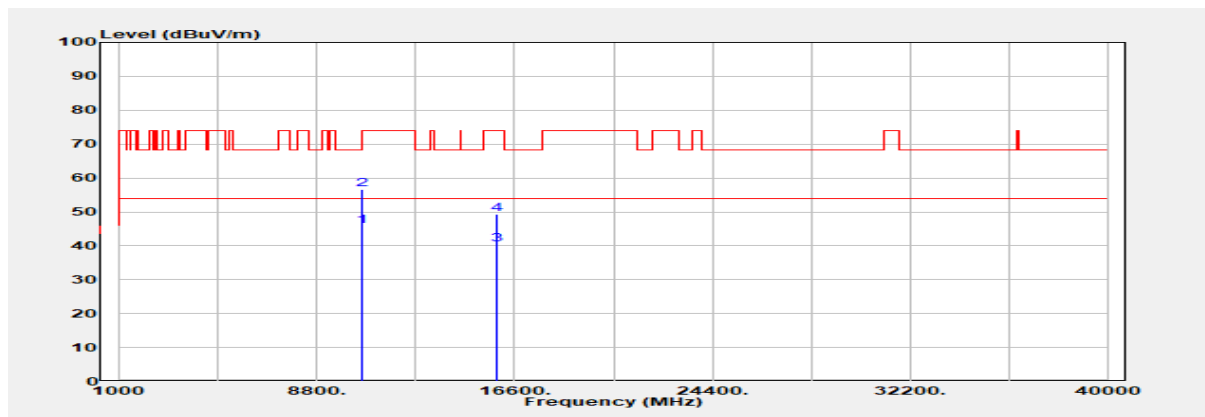
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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	36.68	8.99	45.67	54.00	-8.33
10600.000	Peak	47.62	8.99	56.61	74.00	-17.39
15900.000	Average	28.47	12.01	40.48	54.00	-13.52
15900.000	Peak	37.25	12.01	49.26	74.00	-24.74

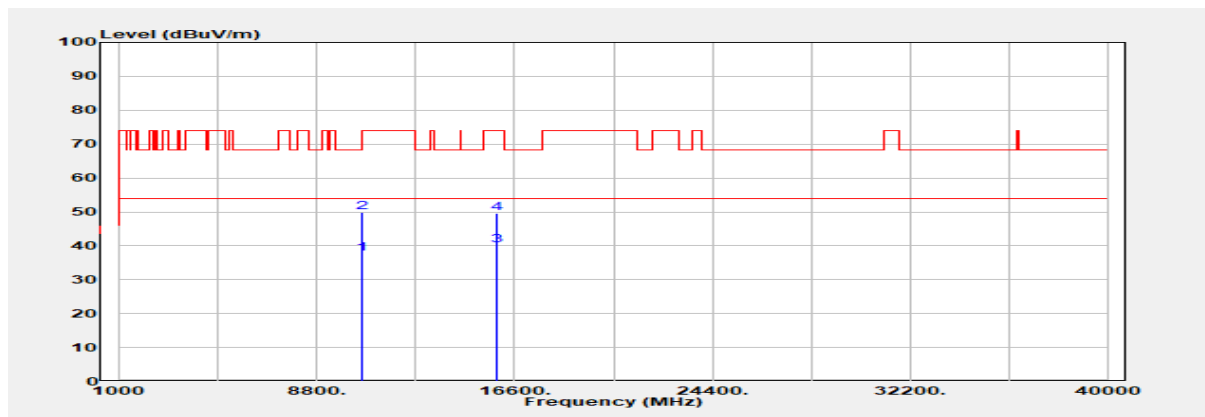
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
10600.000	Average	28.55	8.99	37.54	54.00	-16.46
10600.000	Peak	40.77	8.99	49.76	74.00	-24.24
15900.000	Average	28.16	12.01	40.17	54.00	-13.83
15900.000	Peak	37.71	12.01	49.72	74.00	-24.28

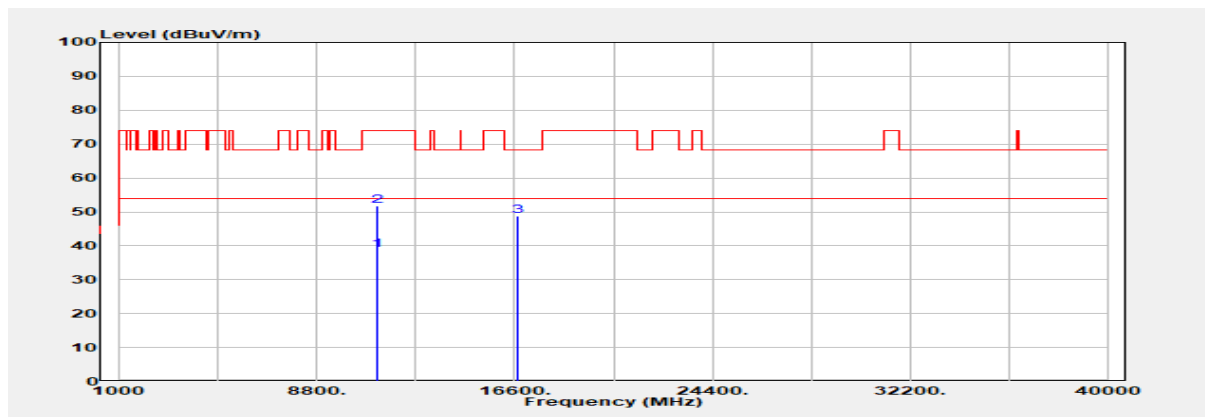
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
11160.000	Average	29.39	9.36	38.75	54.00	-15.25
11160.000	Peak	42.27	9.36	51.63	74.00	-22.37
16740.000	Peak	37.53	11.29	48.82	68.20	-19.38

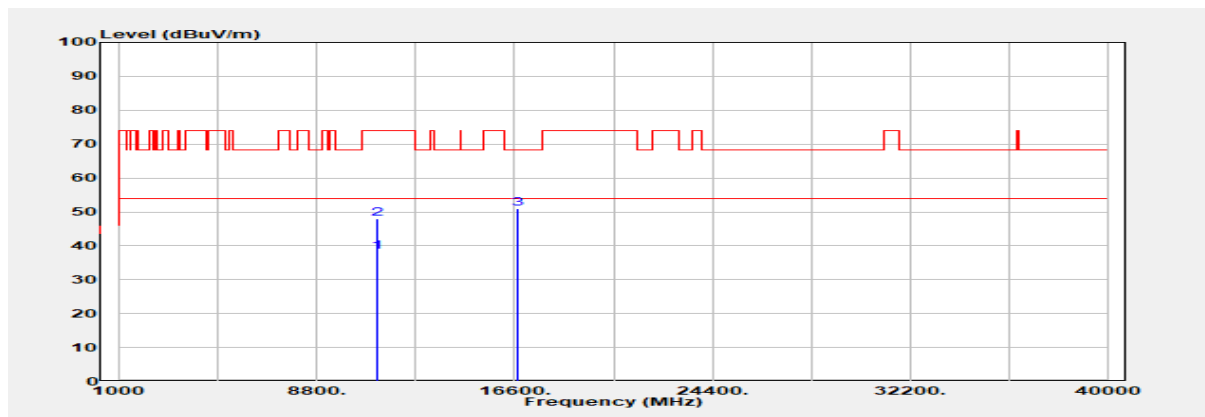
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
11160.000	Average	28.91	9.36	38.27	54.00	-15.73
11160.000	Peak	38.57	9.36	47.93	74.00	-26.07
16740.000	Peak	39.68	11.29	50.97	68.20	-17.23

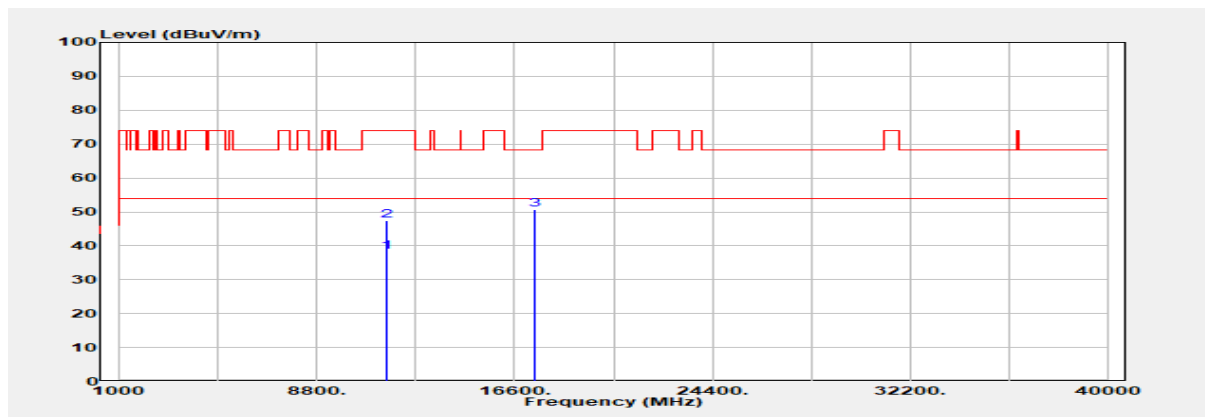
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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	28.11	10.00	38.11	54.00	-15.89
11570.000	Peak	37.51	10.00	47.50	74.00	-26.50
17355.000	Peak	39.67	10.90	50.57	68.20	-17.63

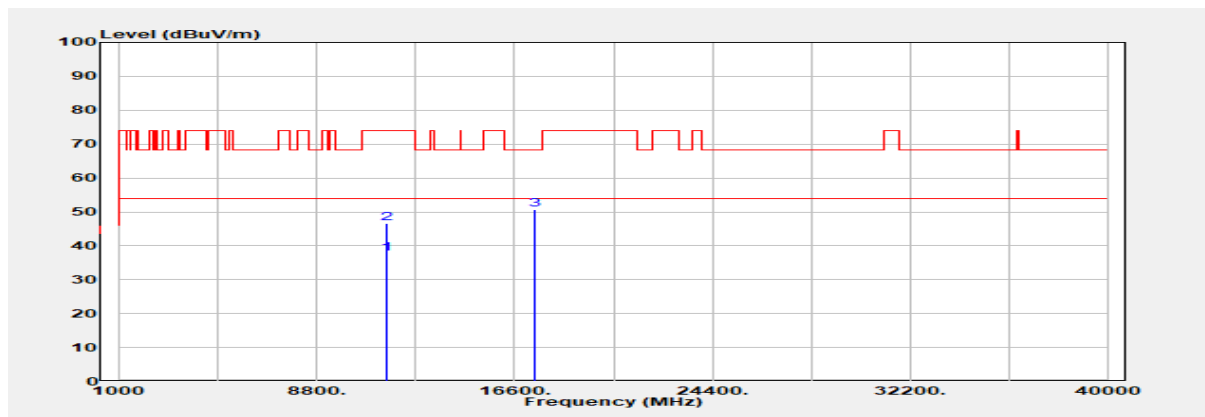
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11570.000	Average	27.67	10.00	37.67	54.00	-16.33
11570.000	Peak	36.71	10.00	46.70	74.00	-27.30
17355.000	Peak	39.87	10.90	50.77	68.20	-17.43

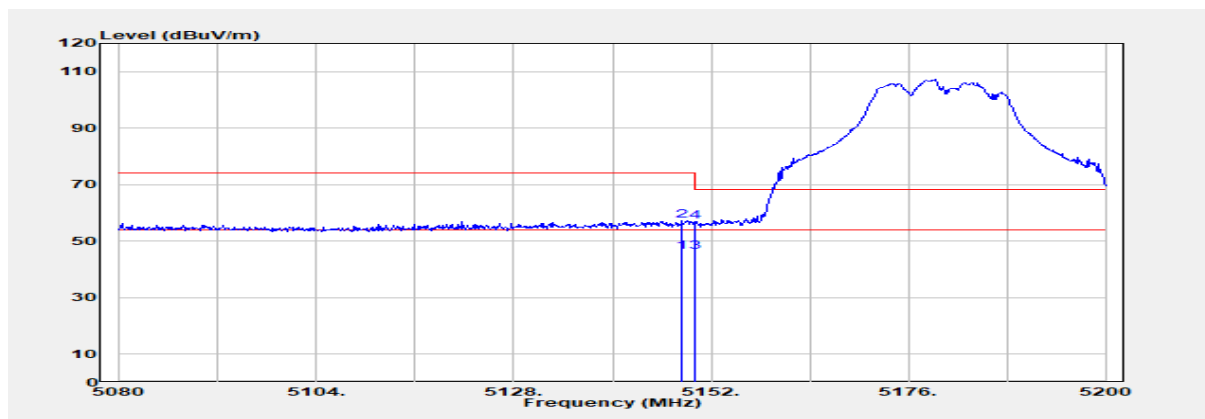
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7.7.2 Band edge falling to restricted band

Report Number	:E2/2021/80020	Test Site	:SAC G
Operation Mode	:802.11a / Band 1	Test Date	:2021-08-19
Test Frequency	:5180 MHz	Temp./Humi.	:24.5/60
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jack Tseng
Setting	:11.5		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5148.520	Average	43.10	2.99	46.09	54.00	-7.91
5148.520	Peak	54.30	2.99	57.29	74.00	-16.71
5150.000	Average	43.05	3.03	46.08	54.00	-7.92
5150.000	Peak	53.83	3.03	56.86	74.00	-17.14

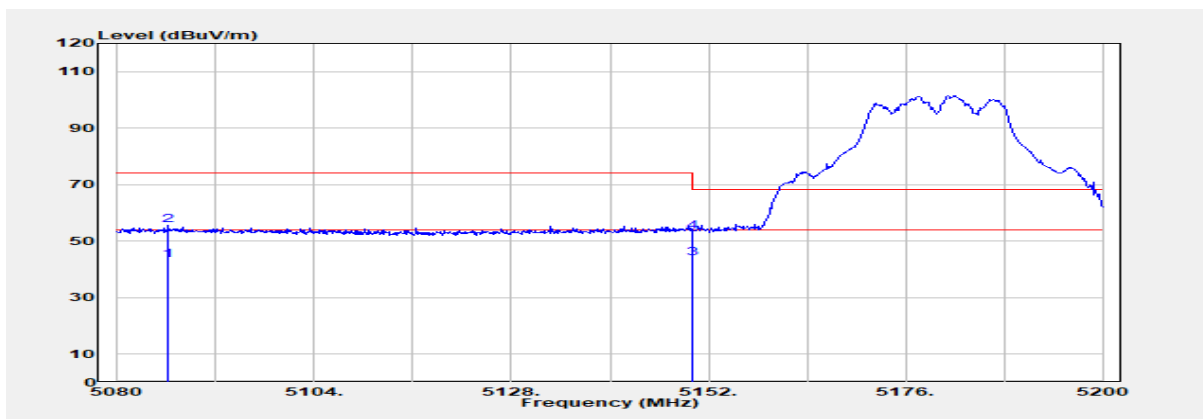
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :11.5

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5086.240	Average	39.74	3.36	43.10	54.00	-10.90
5086.240	Peak	52.24	3.36	55.61	74.00	-18.39
5150.000	Average	40.80	3.03	43.83	54.00	-10.17
5150.000	Peak	50.32	3.03	53.35	74.00	-20.65

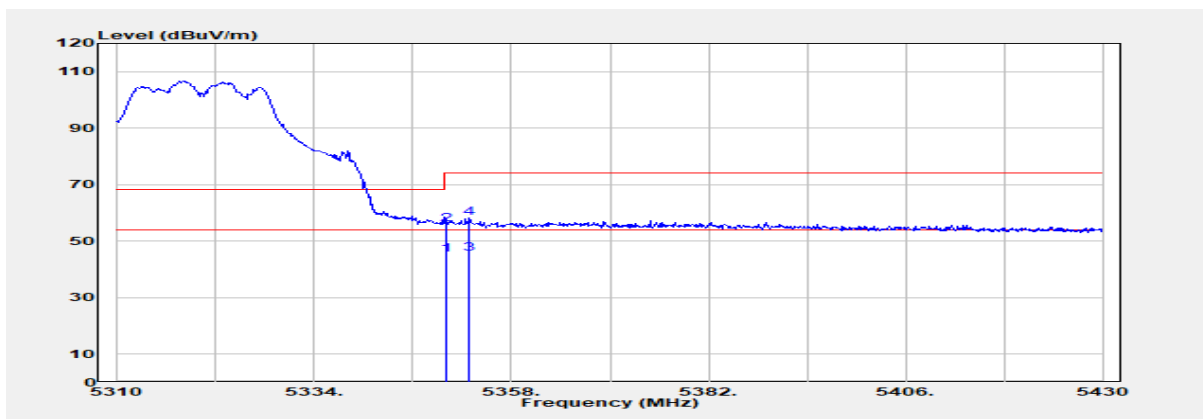
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :12

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5350.000	Average	43.09	2.21	45.30	54.00	-8.70
5350.000	Peak	53.60	2.21	55.81	74.00	-18.19
5352.840	Average	43.16	2.21	45.37	54.00	-8.63
5352.840	Peak	56.08	2.21	58.29	74.00	-15.71

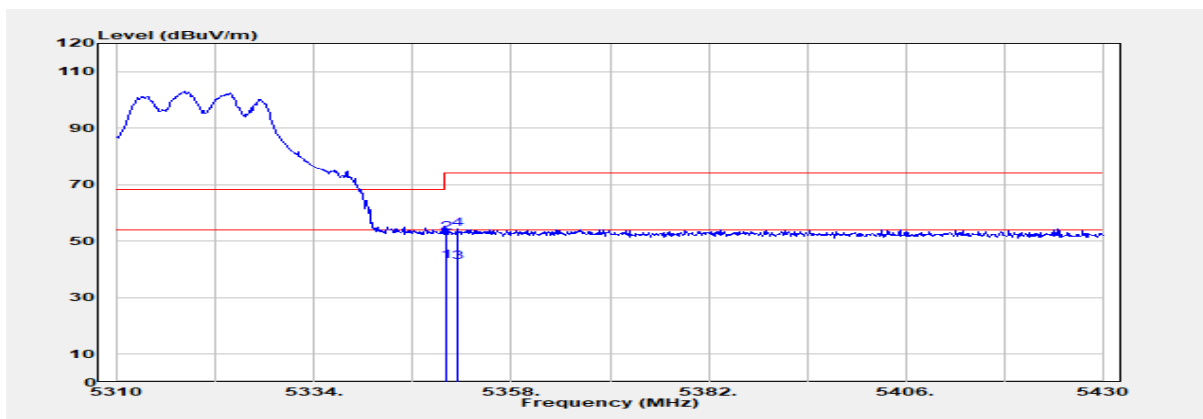
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :12

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5350.000	Average	40.62	2.21	42.83	54.00	-11.17
5350.000	Peak	50.92	2.21	53.13	74.00	-20.87
5351.400	Average	40.47	2.21	42.68	54.00	-11.32
5351.400	Peak	52.12	2.21	54.33	74.00	-19.67

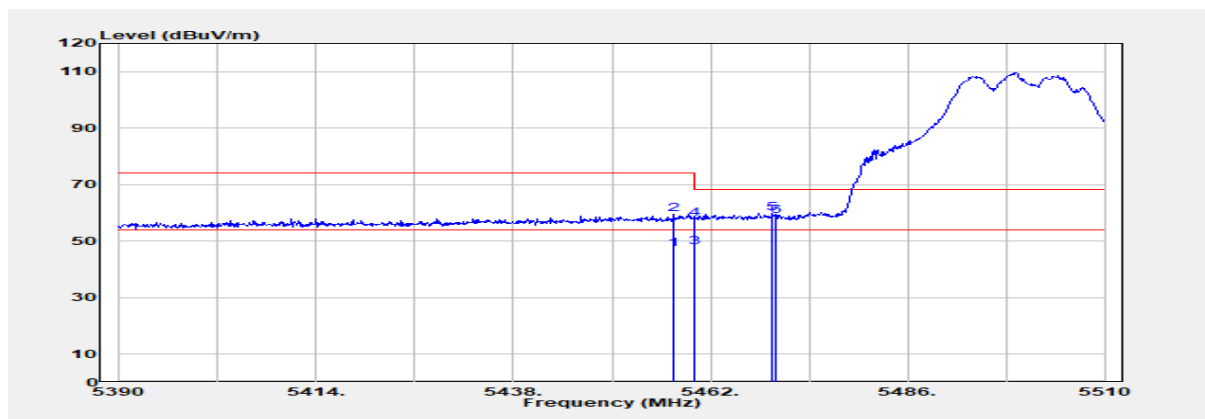
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :12

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5457.560	Average	44.65	2.63	47.28	54.00	-6.72
5457.560	Peak	56.96	2.63	59.60	74.00	-14.40
5460.000	Average	45.05	2.64	47.69	54.00	-6.31
5460.000	Peak	55.22	2.64	57.86	74.00	-16.14
5469.560	Peak	57.15	2.76	59.92	68.20	-8.28
5470.000	Peak	56.08	2.77	58.85	68.20	-9.35

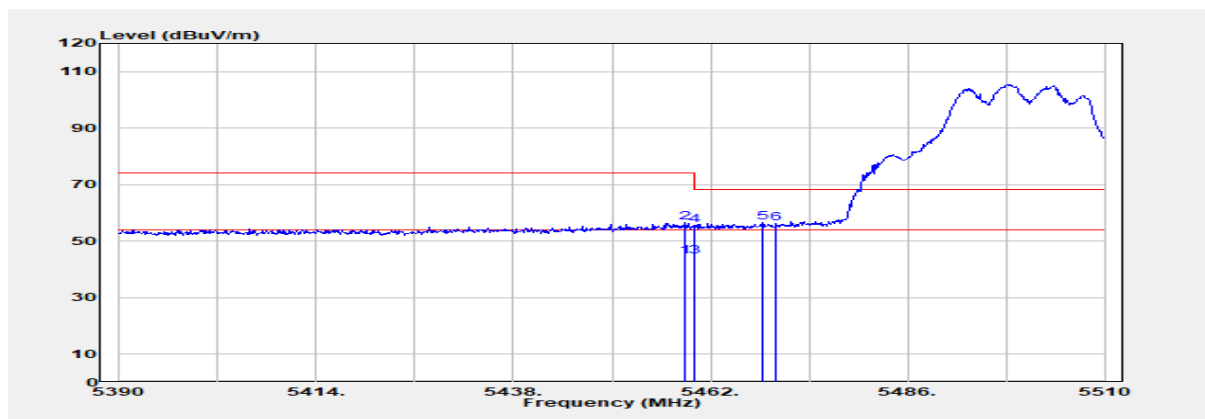
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :12

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5458.880	Average	41.78	2.64	44.42	54.00	-9.58
5458.880	Peak	53.86	2.64	56.49	74.00	-17.51
5460.000	Average	41.86	2.64	44.50	54.00	-9.50
5460.000	Peak	52.91	2.64	55.55	74.00	-18.45
5468.240	Peak	53.75	2.75	56.50	68.20	-11.70
5470.000	Peak	53.58	2.77	56.35	68.20	-11.85

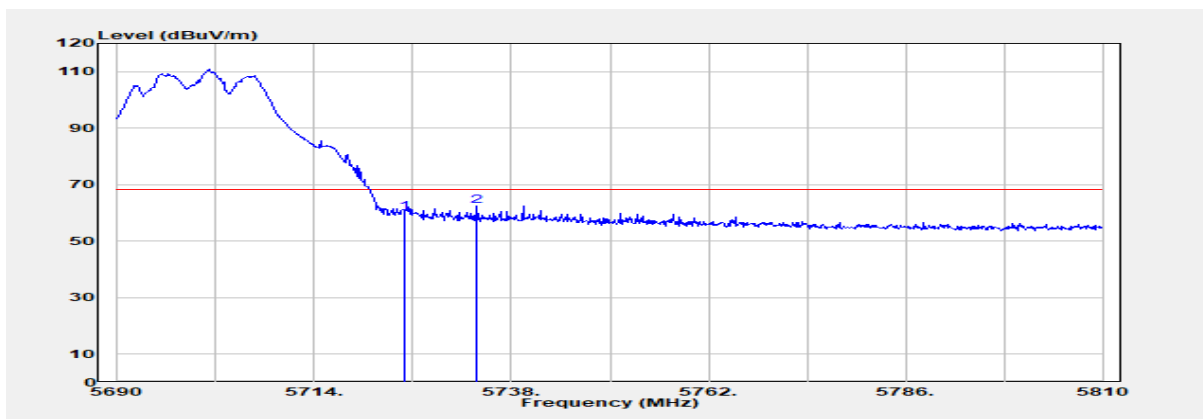
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5725.000	Peak	55.94	4.21	60.15	68.20	-8.05
5733.800	Peak	58.28	4.28	62.56	68.20	-5.64

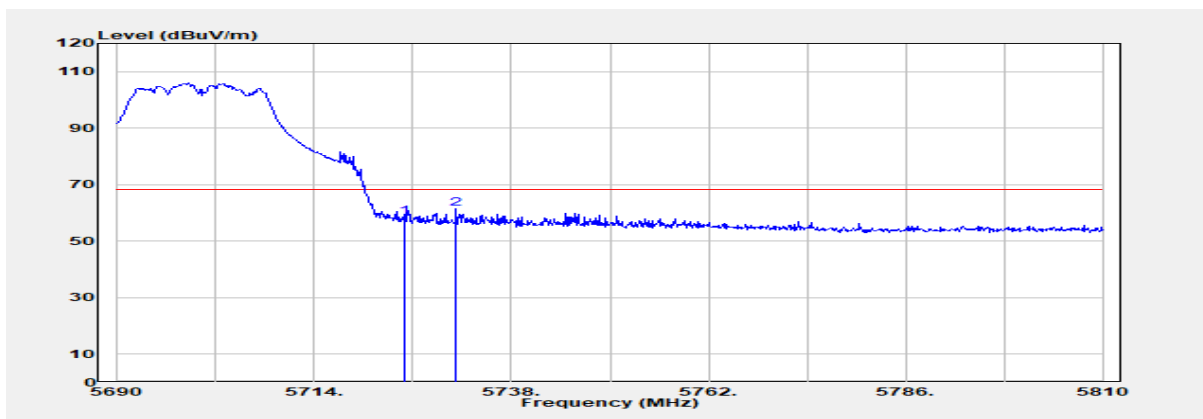
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5725.000	Peak	54.37	4.21	58.58	68.20	-9.62
5731.280	Peak	57.06	4.26	61.32	68.20	-6.88

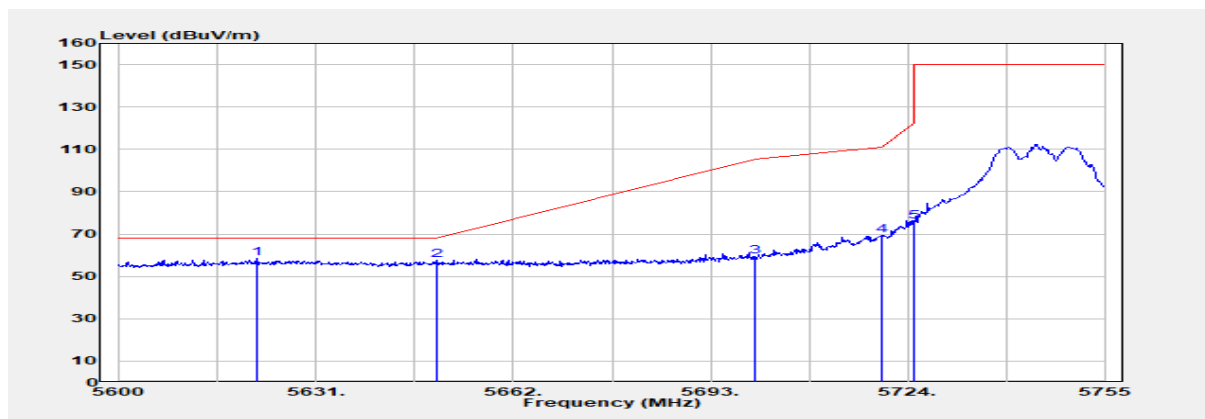
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5621.545	Peak	54.95	3.45	58.40	68.20	-9.80
5650.000	Peak	53.88	3.60	57.48	68.20	-10.72
5700.000	Peak	56.18	3.31	59.49	105.20	-45.71
5720.000	Peak	65.42	4.17	69.59	110.80	-41.21
5725.000	Peak	71.61	4.21	75.82	122.20	-46.38

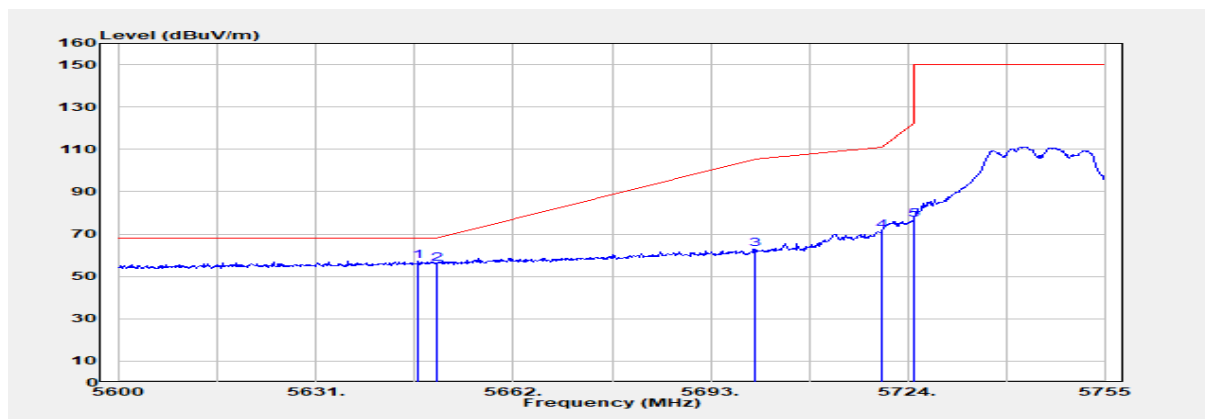
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5646.965	Peak	53.88	3.54	57.43	68.20	-10.77
5650.000	Peak	52.14	3.60	55.74	68.20	-12.46
5700.000	Peak	59.45	3.31	62.76	105.20	-42.44
5720.000	Peak	67.47	4.17	71.64	110.80	-39.16
5725.000	Peak	72.41	4.21	76.62	122.20	-45.58

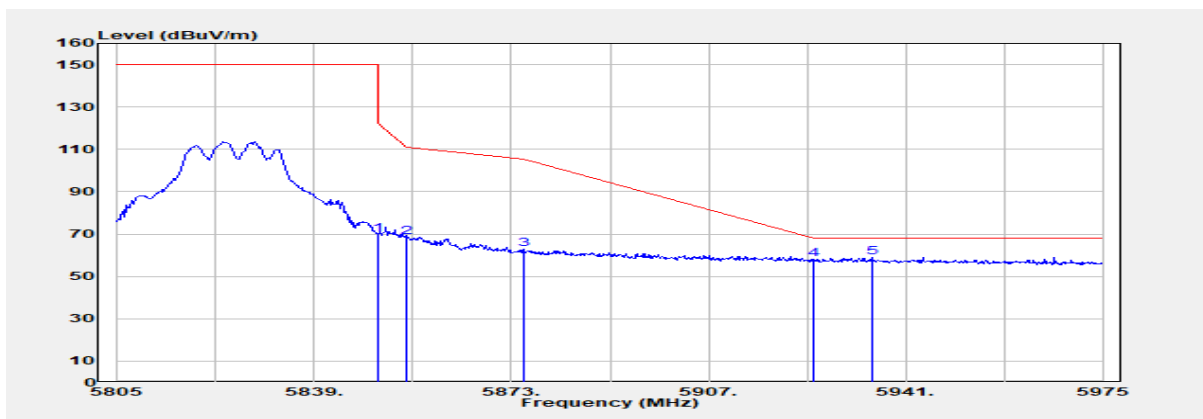
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5850.000	Peak	65.71	4.31	70.02	122.20	-52.18
5855.000	Peak	64.13	4.21	68.34	110.80	-42.46
5875.000	Peak	59.01	3.90	62.91	105.20	-42.29
5925.000	Peak	53.86	4.36	58.21	68.20	-9.99
5935.220	Peak	54.68	4.23	58.91	68.20	-9.29

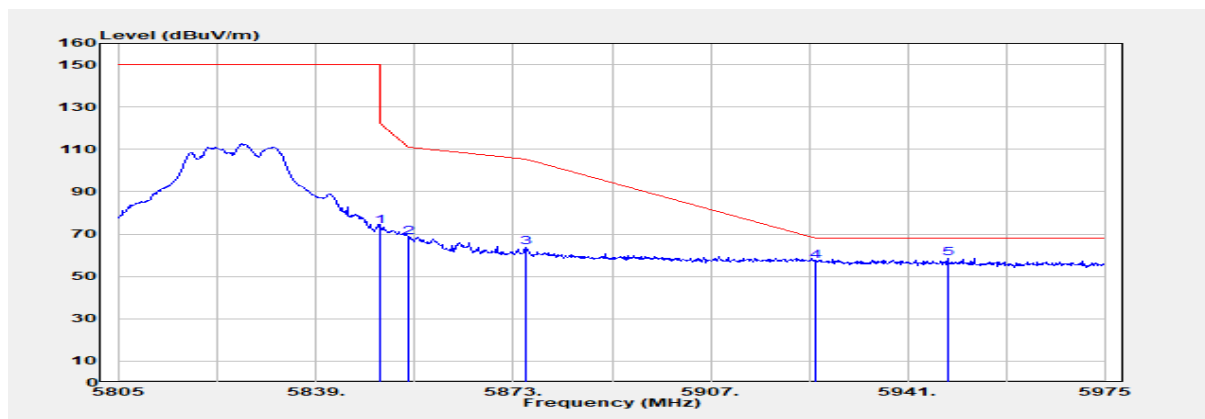
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Report Number :E2/2021/80020
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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
5850.000	Peak	69.28	4.31	73.59	122.20	-48.61
5855.000	Peak	64.33	4.21	68.54	110.80	-42.26
5875.000	Peak	59.80	3.90	63.70	105.20	-41.50
5925.000	Peak	53.02	4.36	57.38	68.20	-10.82
5947.970	Peak	54.42	4.06	58.48	68.20	-9.72

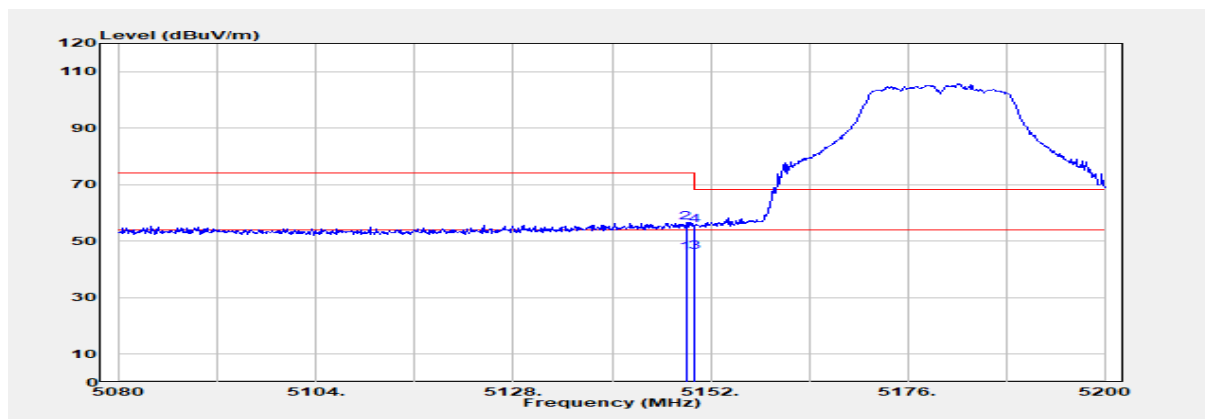
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5149.000	Average	42.89	3.01	45.90	54.00	-8.10
5149.000	Peak	53.63	3.01	56.64	74.00	-17.36
5150.000	Average	43.12	3.03	46.15	54.00	-7.85
5150.000	Peak	52.53	3.03	55.56	74.00	-18.44

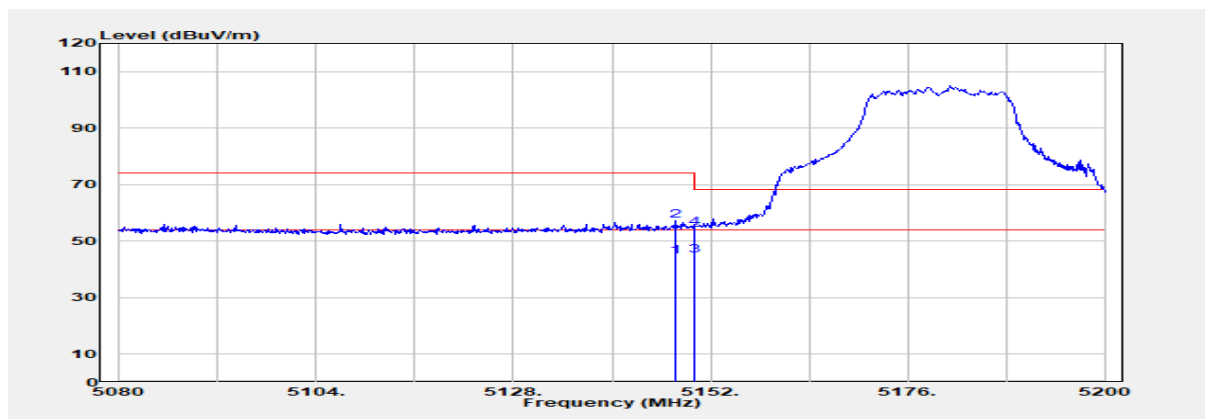
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-19
 Temp./Humi. :24.5/60
 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
5147.800	Average	41.64	2.98	44.61	54.00	-9.39
5147.800	Peak	54.13	2.98	57.11	74.00	-16.89
5150.000	Average	41.73	3.03	44.76	54.00	-9.24
5150.000	Peak	51.71	3.03	54.74	74.00	-19.26

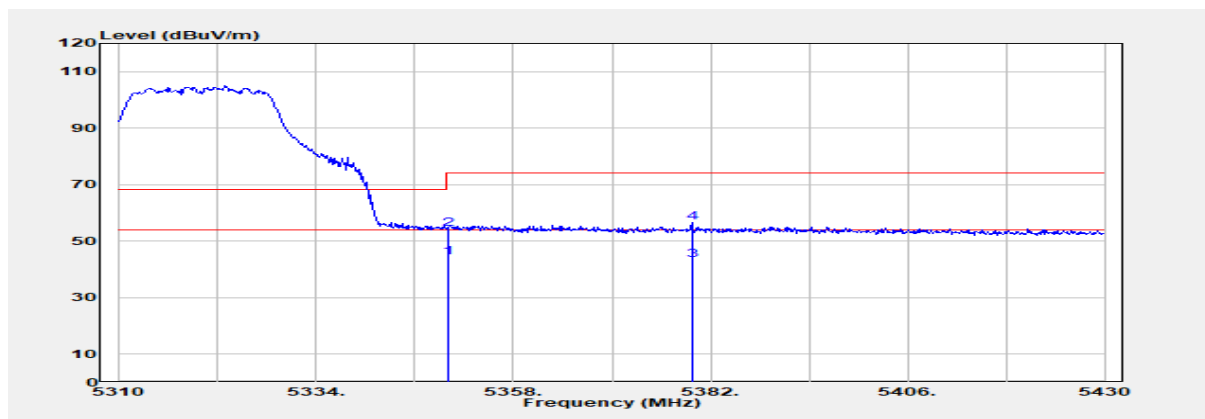
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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
5350.000	Average	41.91	2.21	44.12	54.00	-9.88
5350.000	Peak	52.19	2.21	54.40	74.00	-19.60
5379.720	Average	41.04	2.34	43.38	54.00	-10.62
5379.720	Peak	54.16	2.34	56.50	74.00	-17.50

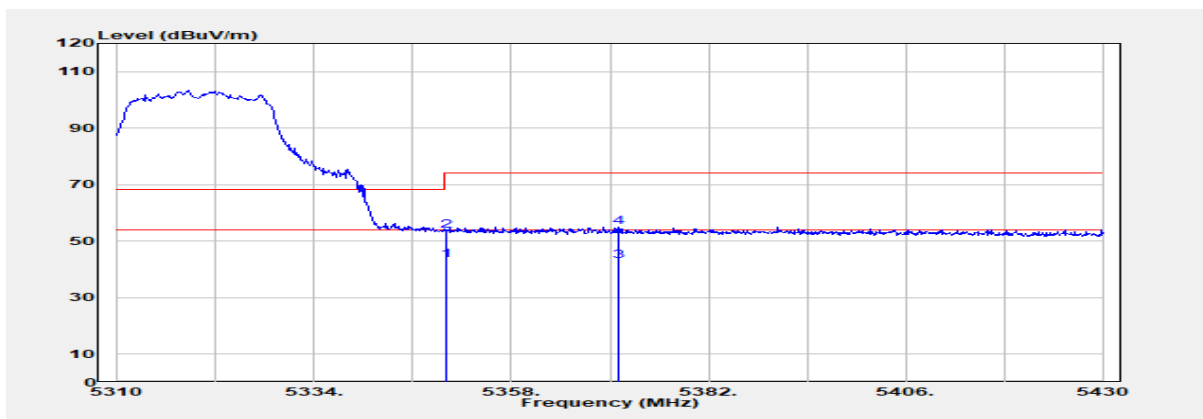
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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
5350.000	Average	41.14	2.21	43.35	54.00	-10.66
5350.000	Peak	51.42	2.21	53.63	74.00	-20.37
5370.960	Average	40.53	2.31	42.84	54.00	-11.16
5370.960	Peak	52.79	2.31	55.10	74.00	-18.90

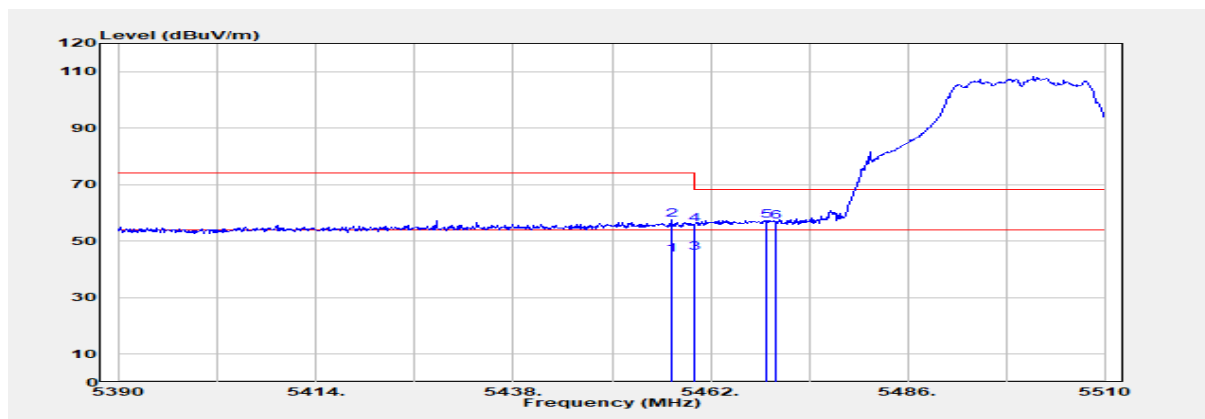
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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
5457.200	Average	42.70	2.63	45.33	54.00	-8.67
5457.200	Peak	54.84	2.63	57.47	74.00	-16.53
5460.000	Average	43.12	2.64	45.76	54.00	-8.24
5460.000	Peak	53.33	2.64	55.97	74.00	-18.03
5468.720	Peak	54.64	2.75	57.39	68.20	-10.81
5470.000	Peak	54.03	2.77	56.80	68.20	-11.40

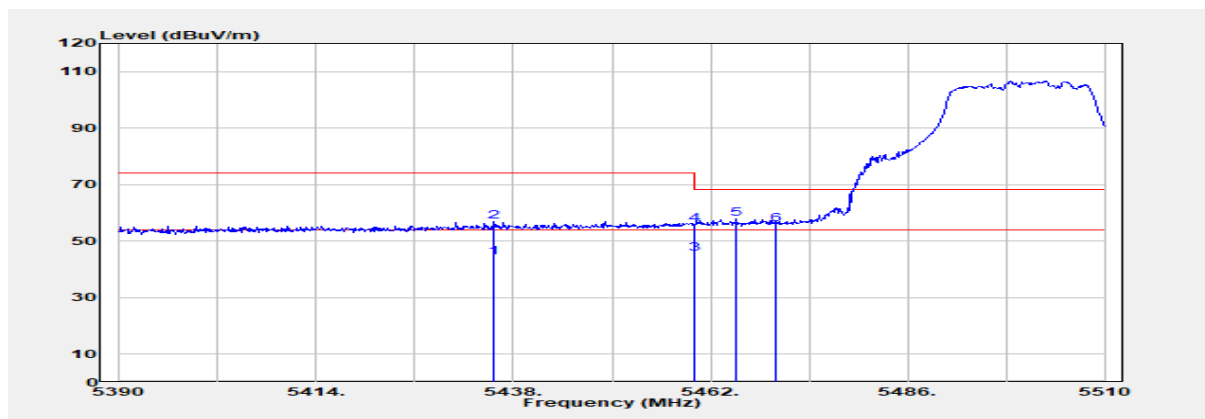
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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
5435.600	Average	42.02	2.35	44.37	54.00	-9.63
5435.600	Peak	54.50	2.35	56.85	74.00	-17.15
5460.000	Average	43.02	2.64	45.66	54.00	-8.34
5460.000	Peak	53.33	2.64	55.97	74.00	-18.03
5465.120	Peak	55.25	2.71	57.95	68.20	-10.25
5470.000	Peak	53.04	2.77	55.81	68.20	-12.39

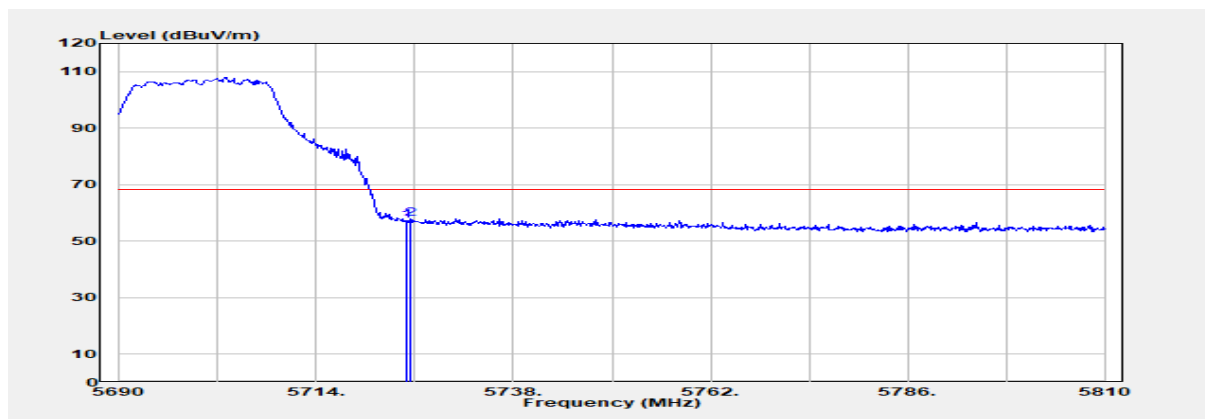
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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
5725.000	Peak	52.89	4.21	57.10	68.20	-11.10
5725.520	Peak	53.73	4.21	57.94	68.20	-10.26

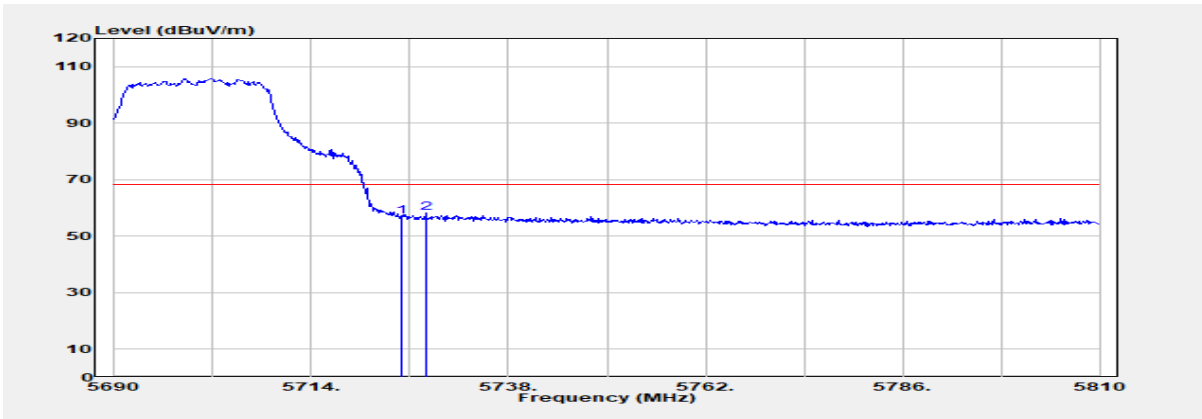
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 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
5725.000	Peak	52.59	4.21	56.80	68.20	-11.40
5727.920	Peak	53.83	4.23	58.06	68.20	-10.14

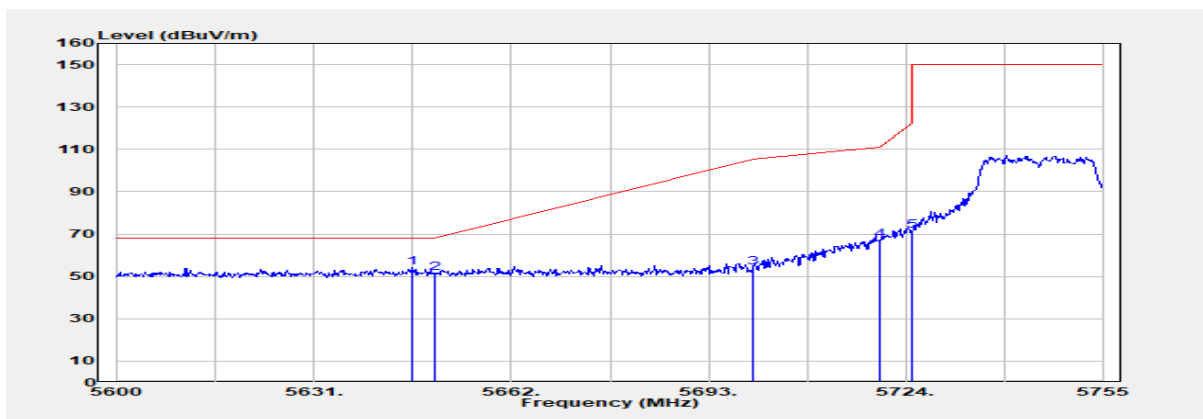
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5646.345	Peak	50.72	3.53	54.25	68.20	-13.95
5650.000	Peak	47.83	3.60	51.43	68.20	-16.77
5700.000	Peak	51.01	3.31	54.32	105.20	-50.88
5720.000	Peak	62.97	4.17	67.14	110.80	-43.66
5725.000	Peak	67.26	4.21	71.47	122.20	-50.73

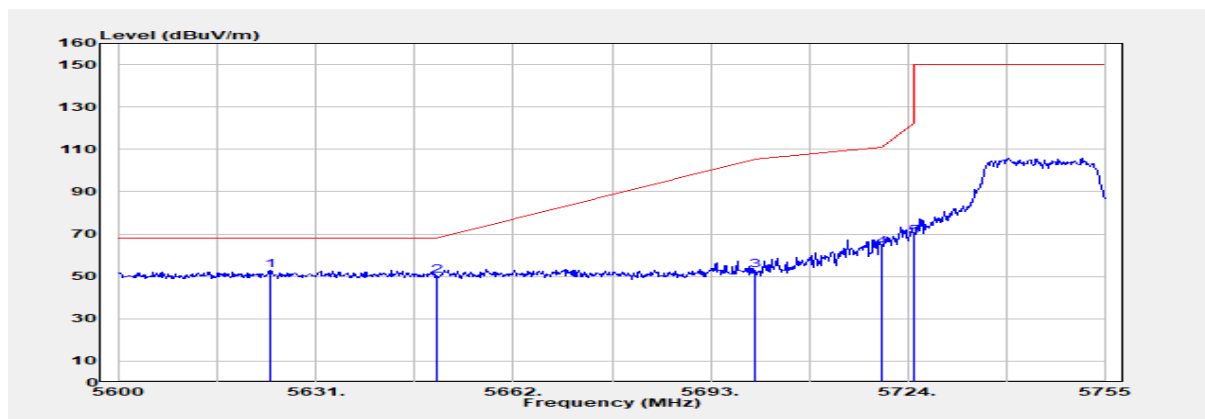
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5623.715	Peak	49.33	3.46	52.79	68.20	-15.41
5650.000	Peak	46.69	3.60	50.29	68.20	-17.91
5700.000	Peak	49.40	3.31	52.71	105.20	-52.49
5720.000	Peak	59.72	4.17	63.89	110.80	-46.91
5725.000	Peak	64.90	4.21	69.11	122.20	-53.09

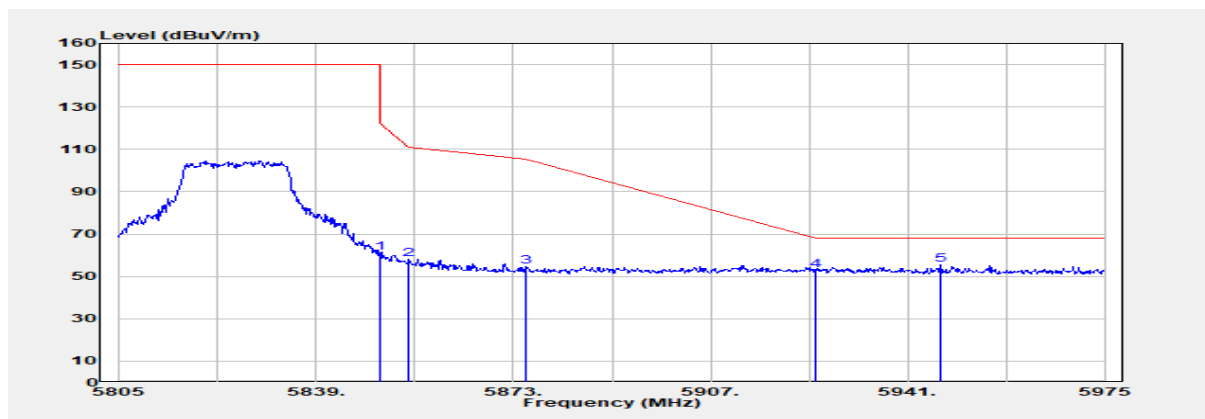
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5850.000	Peak	56.68	4.31	60.99	122.20	-61.21
5855.000	Peak	53.69	4.21	57.90	110.80	-52.90
5875.000	Peak	50.84	3.90	54.74	105.20	-50.46
5925.000	Peak	48.66	4.36	53.01	68.20	-15.19
5946.780	Peak	51.32	4.07	55.39	68.20	-12.81

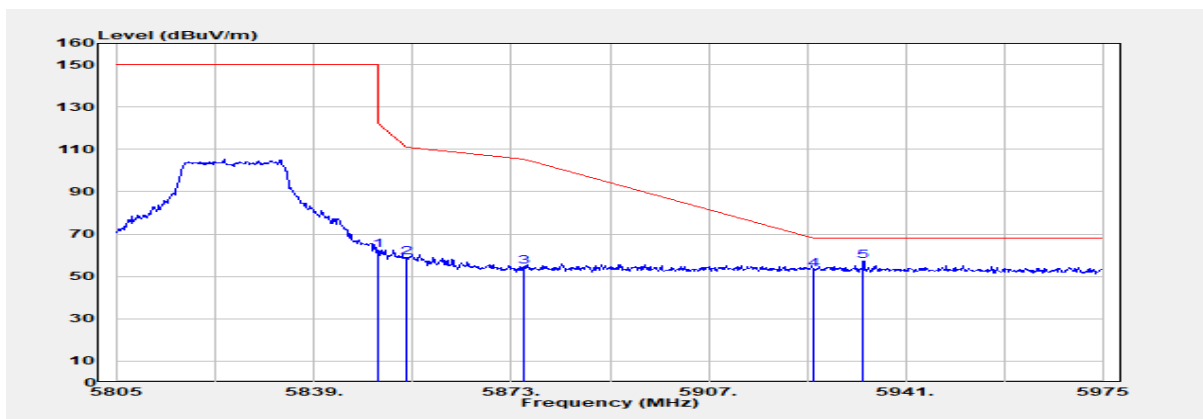
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Report Number :E2/2021/80020
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5850.000	Peak	58.18	4.31	62.49	122.20	-59.71
5855.000	Peak	54.62	4.21	58.83	110.80	-51.97
5875.000	Peak	50.76	3.90	54.66	105.20	-50.54
5925.000	Peak	48.82	4.36	53.17	68.20	-15.03
5933.690	Peak	52.82	4.26	57.09	68.20	-11.11

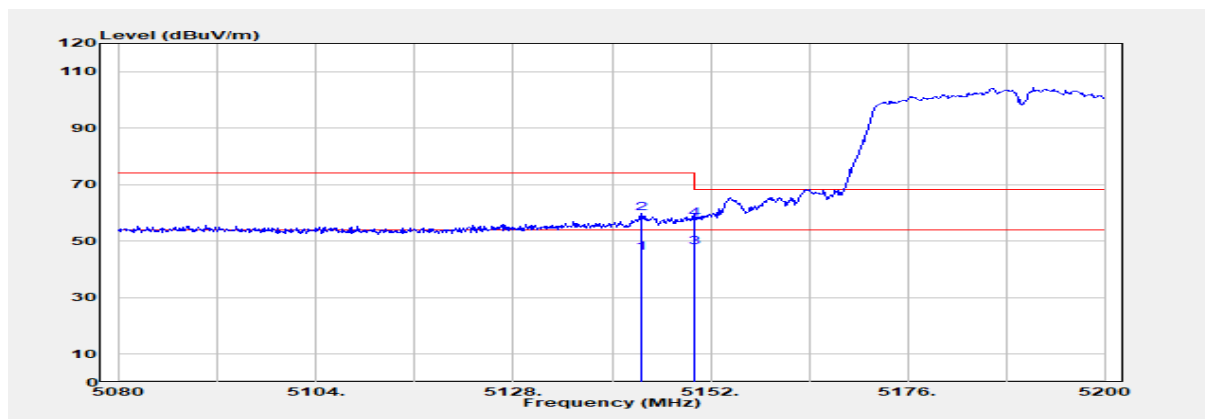
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5143.480	Average	42.87	2.87	45.74	54.00	-8.26
5143.480	Peak	56.98	2.87	59.86	74.00	-14.14
5150.000	Average	44.78	3.03	47.81	54.00	-6.19
5150.000	Peak	54.91	3.03	57.94	74.00	-16.06

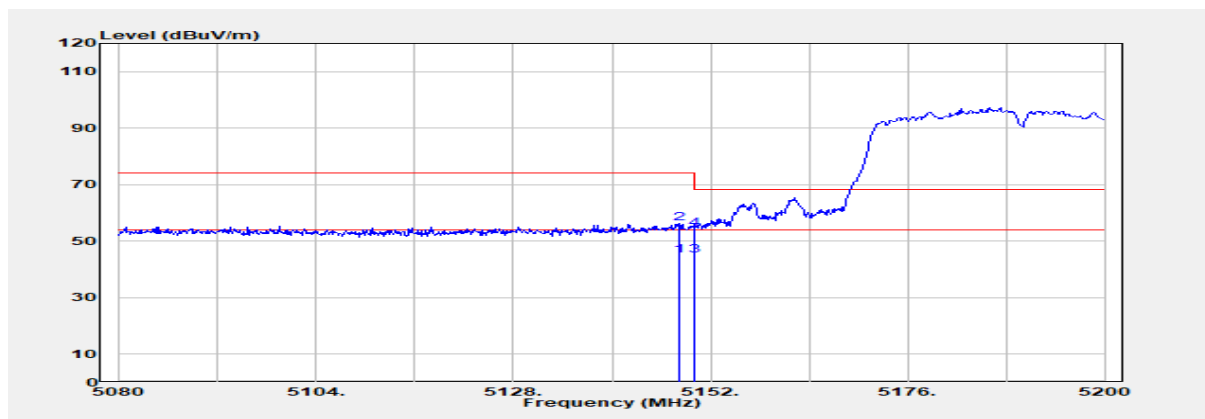
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5148.160	Average	41.83	2.99	44.81	54.00	-9.19
5148.160	Peak	53.29	2.99	56.27	74.00	-17.73
5150.000	Average	41.98	3.03	45.01	54.00	-8.99
5150.000	Peak	51.41	3.03	54.44	74.00	-19.56

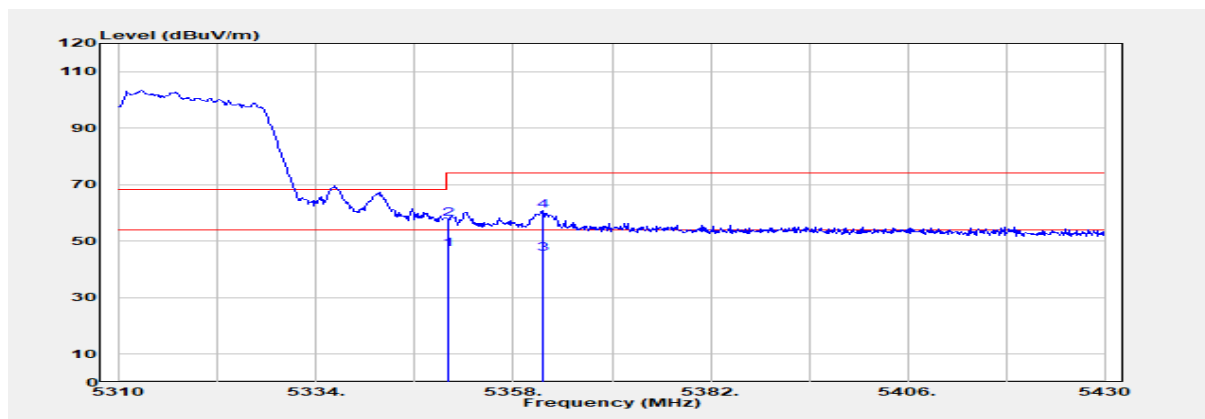
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	44.80	2.21	47.01	54.00	-6.99
5350.000	Peak	55.54	2.21	57.75	74.00	-16.25
5361.480	Average	43.18	2.23	45.42	54.00	-8.58
5361.480	Peak	58.67	2.23	60.90	74.00	-13.10

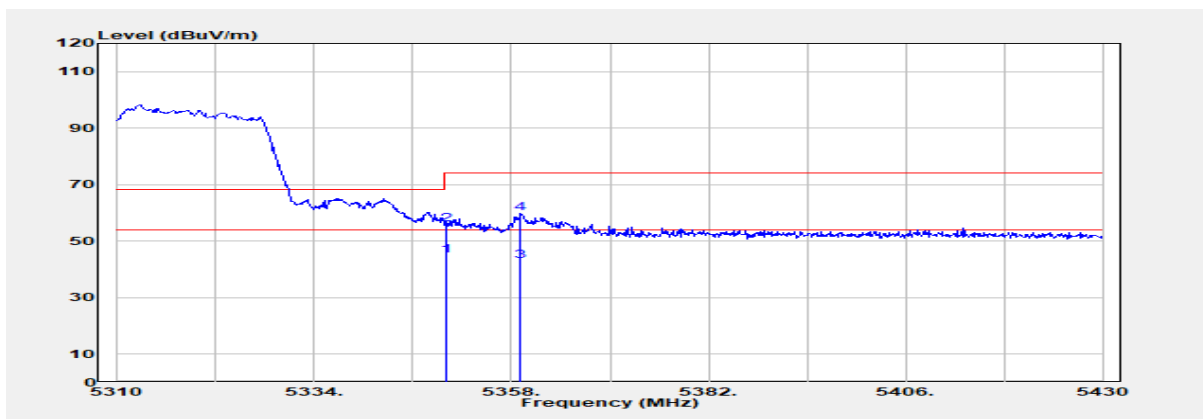
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	42.62	2.21	44.83	54.00	-9.17
5350.000	Peak	53.86	2.21	56.07	74.00	-17.93
5359.080	Average	40.85	2.22	43.07	54.00	-10.93
5359.080	Peak	57.55	2.22	59.76	74.00	-14.24

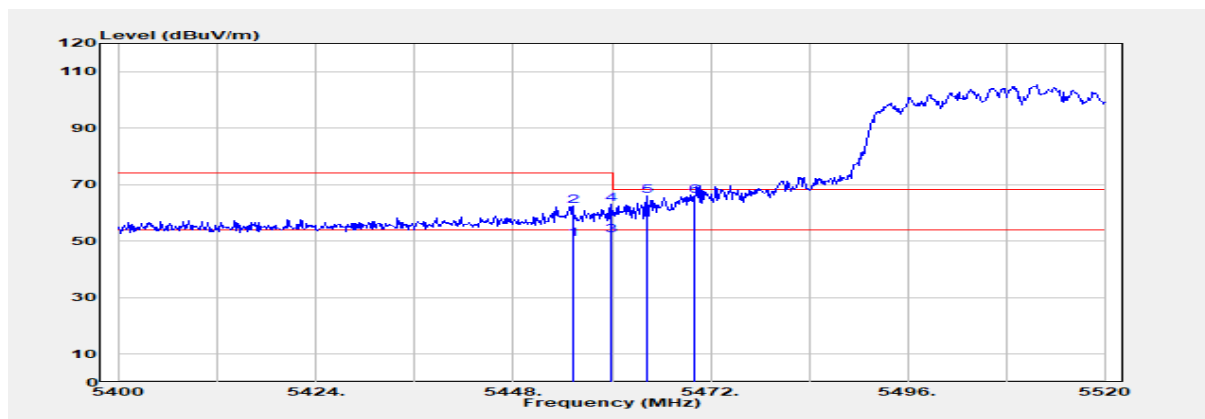
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :15

Test Site :SAC G
 Test Date :2021-08-24
 Temp./Humi. :24.5/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5455.200	Average	48.10	2.62	50.72	54.00	-3.28
5455.200	Peak	59.70	2.62	62.32	74.00	-11.68
5460.000	Average	49.36	2.64	52.00	54.00	-2.00
5460.000	Peak	60.45	2.64	63.09	74.00	-10.91
5464.200	Peak	63.48	2.69	66.17	68.20	-2.03
5470.000	Peak	63.33	2.77	66.10	68.20	-2.10

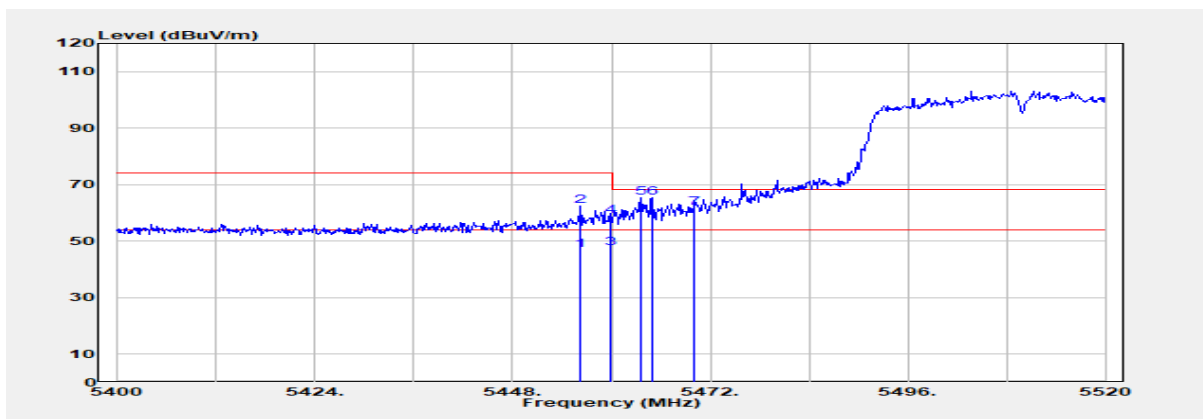
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :15

Test Site :SAC G
 Test Date :2021-08-24
 Temp./Humi. :24.5/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5456.280	Average	44.20	2.63	46.82	54.00	-7.18
5456.280	Peak	59.67	2.63	62.29	74.00	-11.71
5460.000	Average	44.72	2.64	47.36	54.00	-6.64
5460.000	Peak	56.07	2.64	58.71	74.00	-15.29
5463.600	Peak	62.59	2.69	65.27	68.20	-2.93
5464.920	Peak	62.62	2.70	65.32	68.20	-2.88
5470.000	Peak	59.14	2.77	61.91	68.20	-6.29

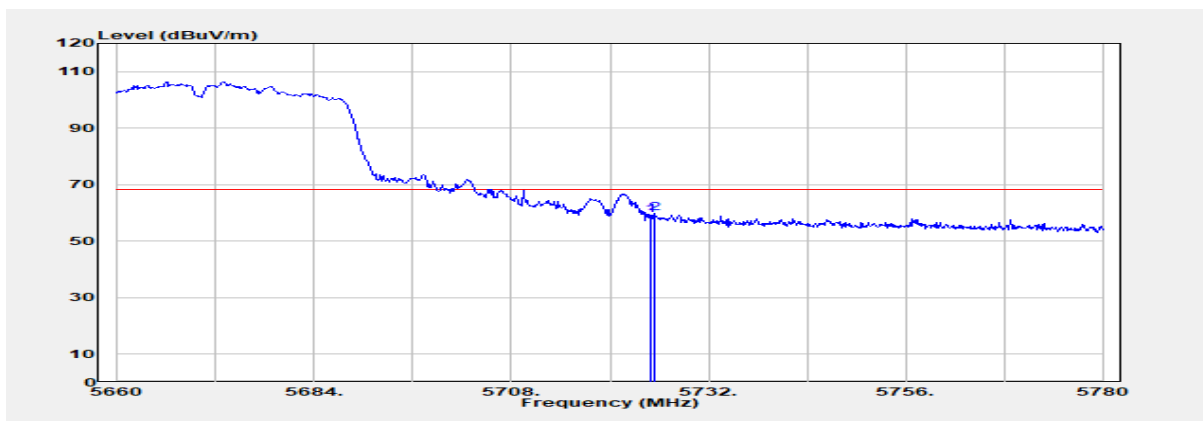
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5725.000	Peak	55.08	4.21	59.29	68.20	-8.91
5725.400	Peak	55.53	4.21	59.74	68.20	-8.46

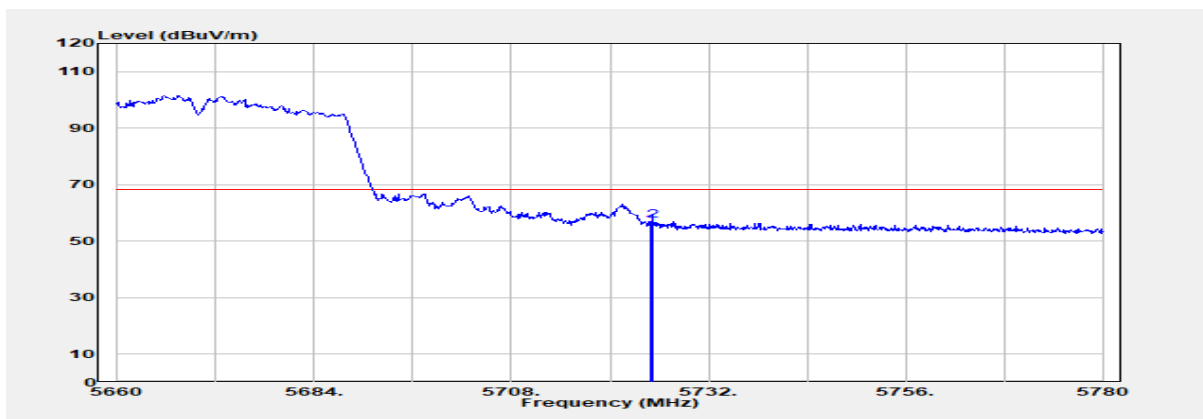
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5725.000	Peak	51.35	4.21	55.56	68.20	-12.64
5725.280	Peak	52.92	4.21	57.13	68.20	-11.07

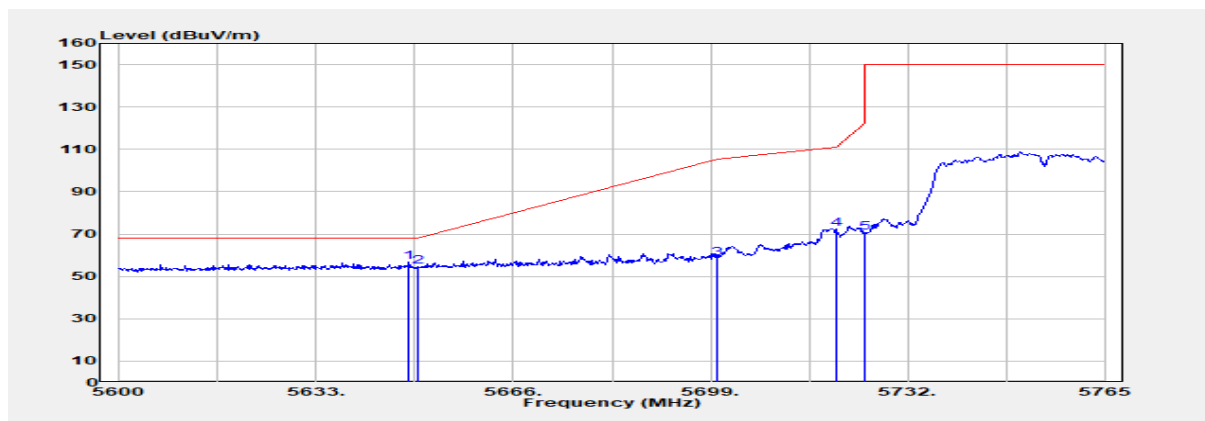
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5648.510	Peak	53.03	3.57	56.60	68.20	-11.60
5650.000	Peak	50.95	3.60	54.55	68.20	-13.65
5700.000	Peak	55.34	3.31	58.65	105.20	-46.55
5720.000	Peak	68.03	4.17	72.20	110.80	-38.60
5725.000	Peak	66.62	4.21	70.83	122.20	-51.37

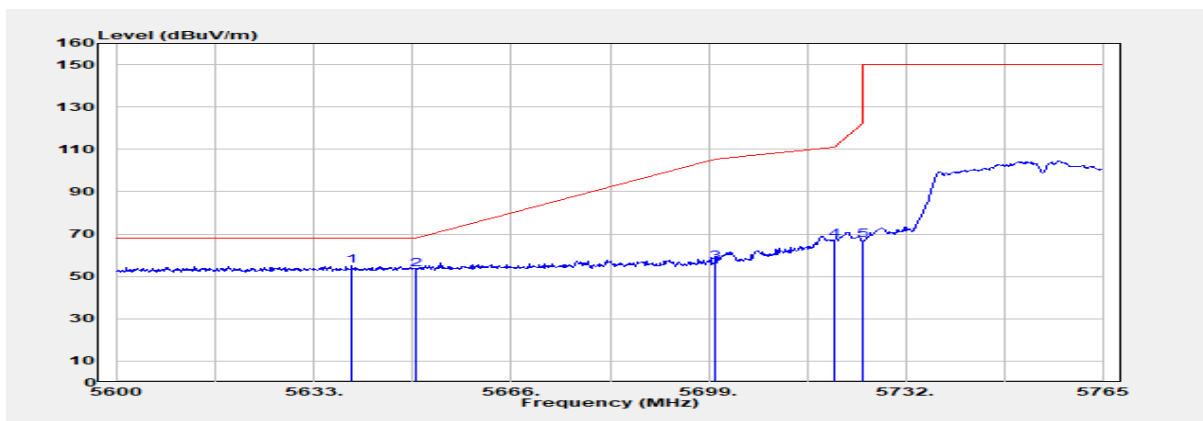
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5639.270	Peak	51.60	3.42	55.02	68.20	-13.18
5650.000	Peak	49.64	3.60	53.24	68.20	-14.96
5700.000	Peak	53.31	3.31	56.62	105.20	-48.58
5720.000	Peak	63.23	4.17	67.40	110.80	-43.40
5725.000	Peak	63.00	4.21	67.21	122.20	-54.99

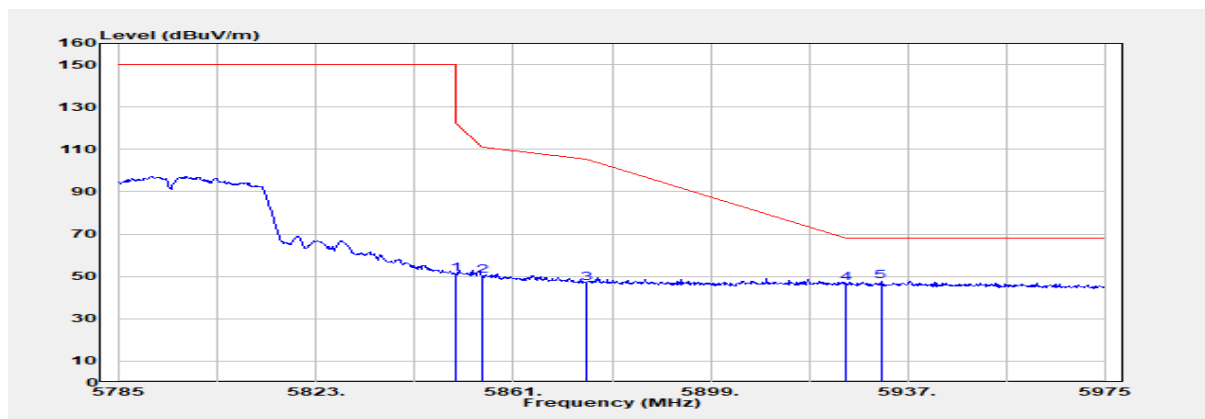
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5850.000	Peak	46.64	4.31	50.95	122.20	-71.25
5855.000	Peak	46.27	4.21	50.48	110.80	-60.32
5875.000	Peak	42.78	3.90	46.68	105.20	-58.52
5925.000	Peak	42.49	4.36	46.84	68.20	-21.36
5931.870	Peak	43.27	4.30	47.57	68.20	-20.63

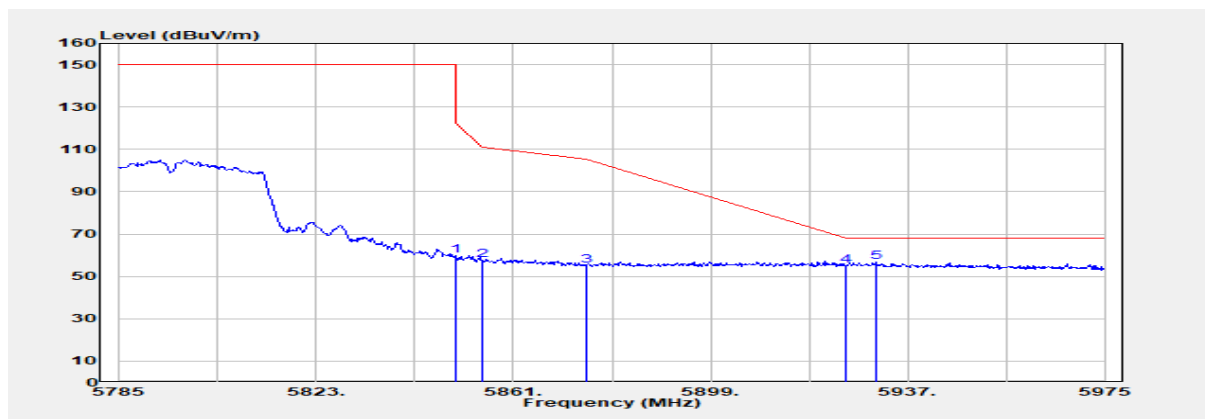
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Report Number :E2/2021/80020
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :16.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5850.000	Peak	55.34	4.31	59.65	122.20	-62.55
5855.000	Peak	53.57	4.21	57.78	110.80	-53.02
5875.000	Peak	51.20	3.90	55.10	105.20	-50.10
5925.000	Peak	50.81	4.36	55.16	68.20	-13.04
5931.110	Peak	52.29	4.32	56.60	68.20	-11.60

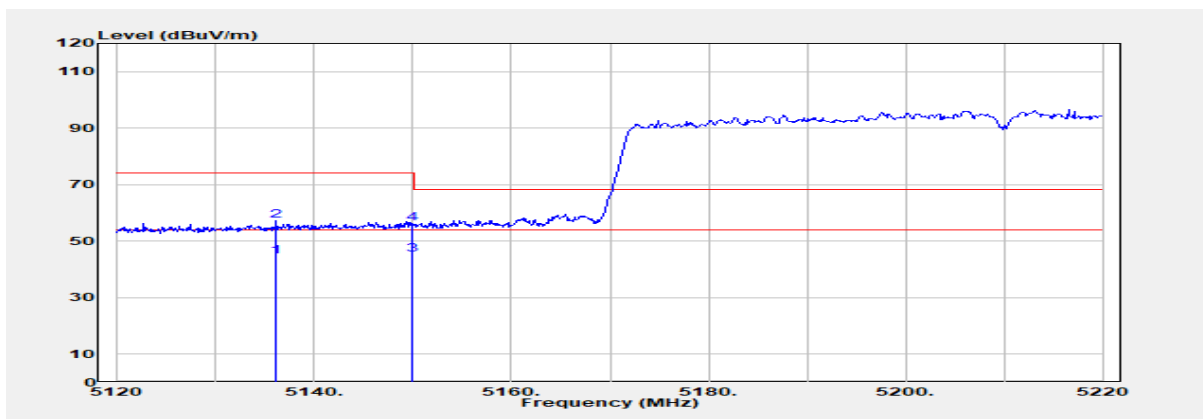
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5136.100	Average	41.75	2.75	44.50	54.00	-9.50
5136.100	Peak	54.34	2.75	57.09	74.00	-16.91
5150.000	Average	42.17	3.03	45.20	54.00	-8.80
5150.000	Peak	53.15	3.03	56.18	74.00	-17.82

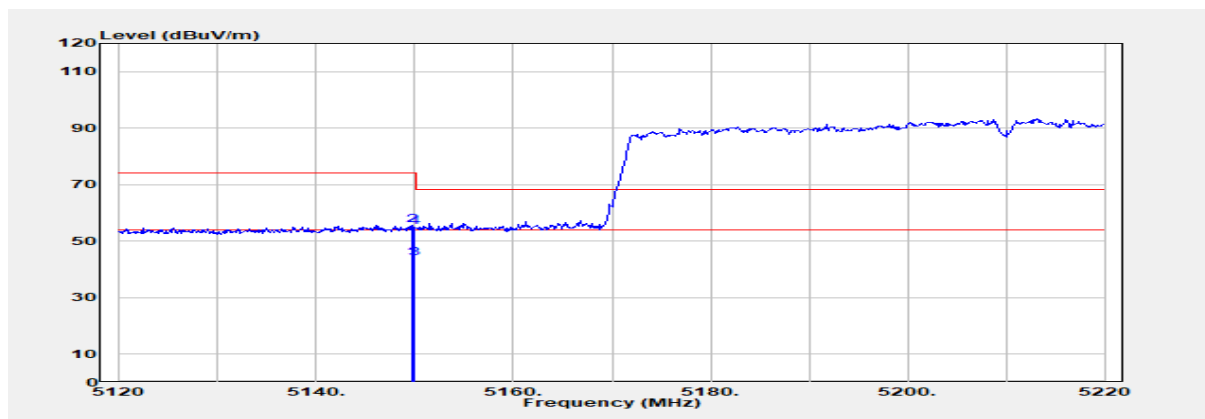
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5149.800	Average	40.90	3.03	43.93	54.00	-10.07
5149.800	Peak	52.69	3.03	55.72	74.00	-18.28
5150.000	Average	41.03	3.03	44.06	54.00	-9.94
5150.000	Peak	51.94	3.03	54.97	74.00	-19.03

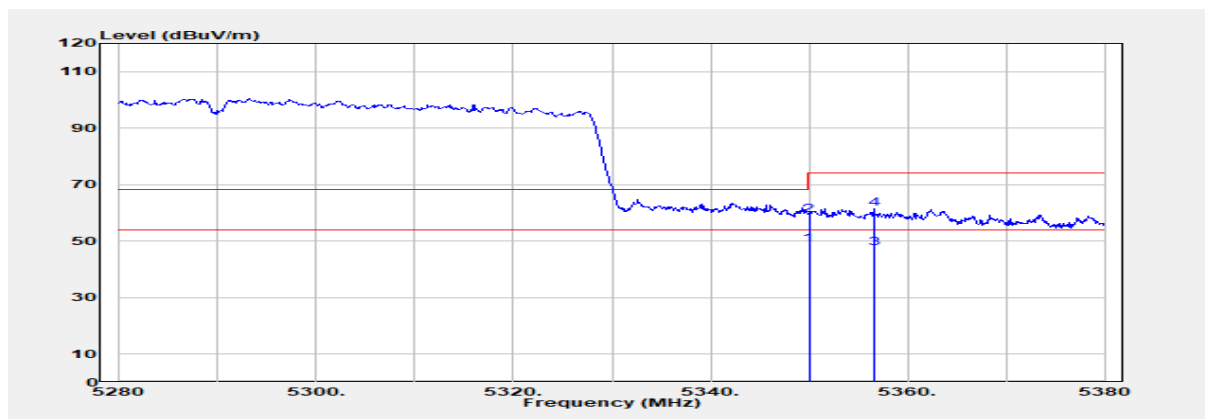
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 2
 Test Frequency :5290 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	46.42	2.21	48.63	54.00	-5.37
5350.000	Peak	57.08	2.21	59.29	74.00	-14.71
5356.600	Average	45.25	2.22	47.46	54.00	-6.54
5356.600	Peak	59.21	2.22	61.43	74.00	-12.57

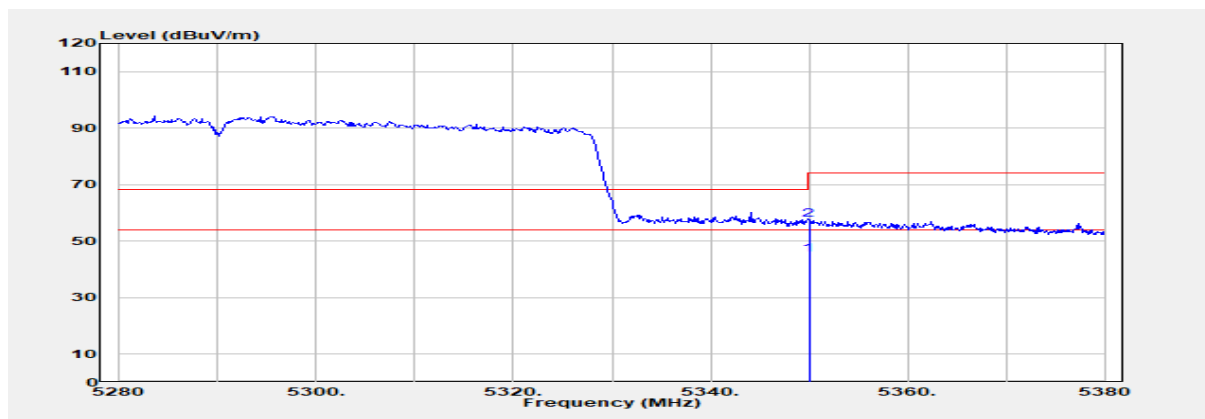
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 2
 Test Frequency :5290 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	42.91	2.21	45.12	54.00	-8.88
5350.000	Peak	55.47	2.21	57.68	74.00	-16.32

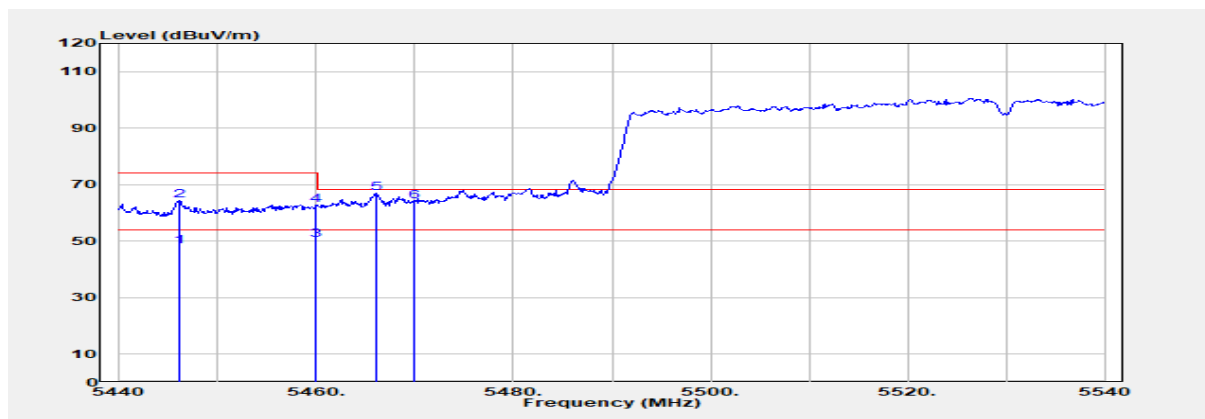
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.100	Average	45.71	2.49	48.20	54.00	-5.80
5446.100	Peak	61.78	2.49	64.27	74.00	-9.73
5460.000	Average	47.88	2.64	50.52	54.00	-3.48
5460.000	Peak	60.14	2.64	62.78	74.00	-11.22
5466.000	Peak	64.14	2.72	66.85	68.20	-1.35
5470.000	Peak	61.19	2.77	63.96	68.20	-4.24

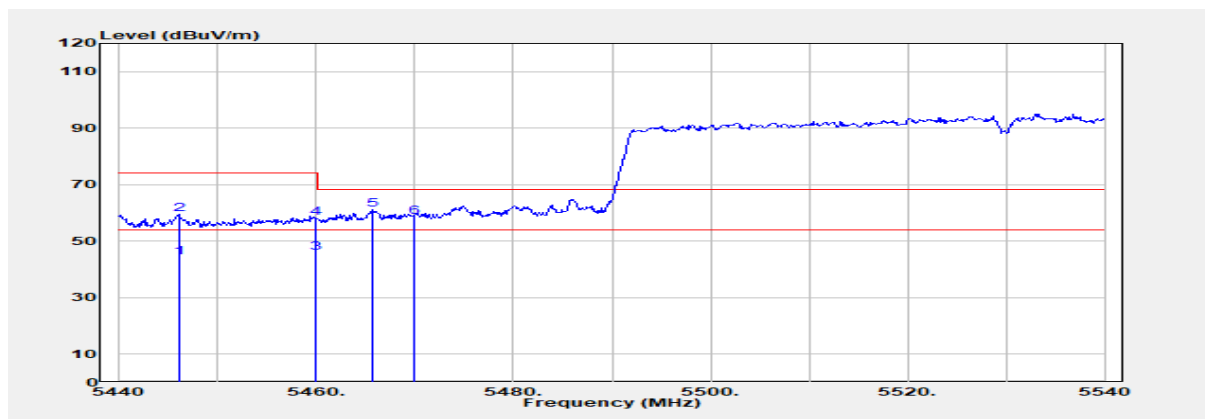
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5446.000	Average	41.85	2.48	44.33	54.00	-9.67
5446.000	Peak	56.91	2.48	59.39	74.00	-14.61
5460.000	Average	43.22	2.64	45.86	54.00	-8.14
5460.000	Peak	55.44	2.64	58.08	74.00	-15.92
5465.600	Peak	58.47	2.71	61.18	68.20	-7.02
5470.000	Peak	55.76	2.77	58.53	68.20	-9.67

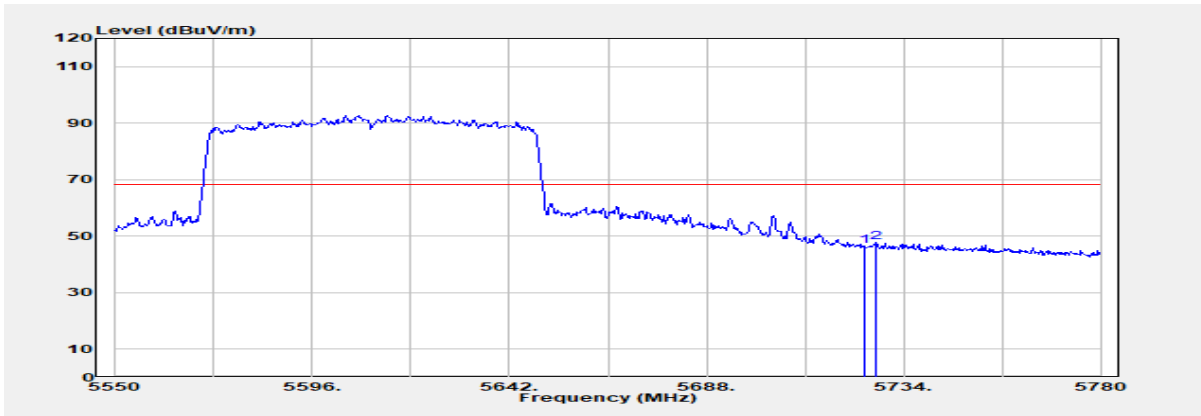
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5610 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane
 Setting :17

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5725.000	Peak	42.29	4.21	46.50	68.20	-21.70
5727.560	Peak	43.68	4.23	47.91	68.20	-20.29

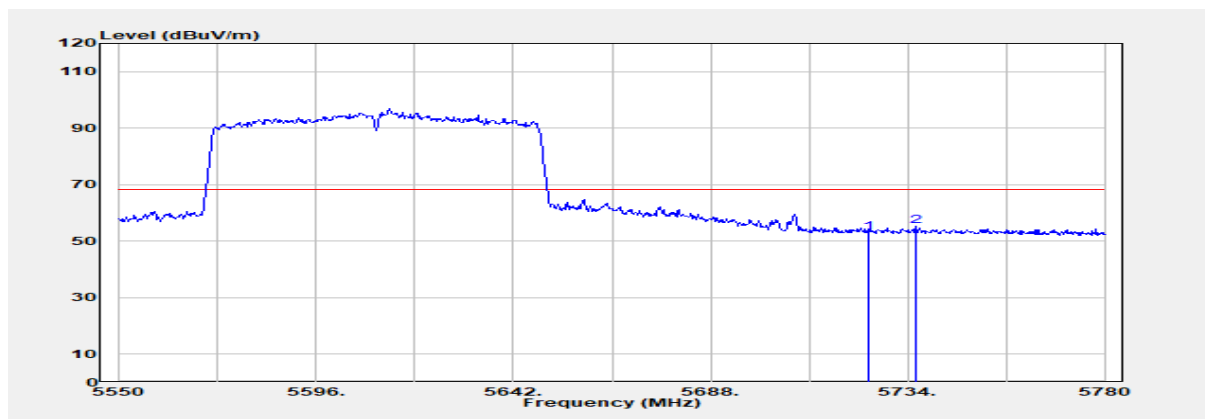
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5610 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane
 Setting :17

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5725.000	Peak	48.86	4.21	53.07	68.20	-15.13
5736.070	Peak	51.10	4.30	55.41	68.20	-12.79

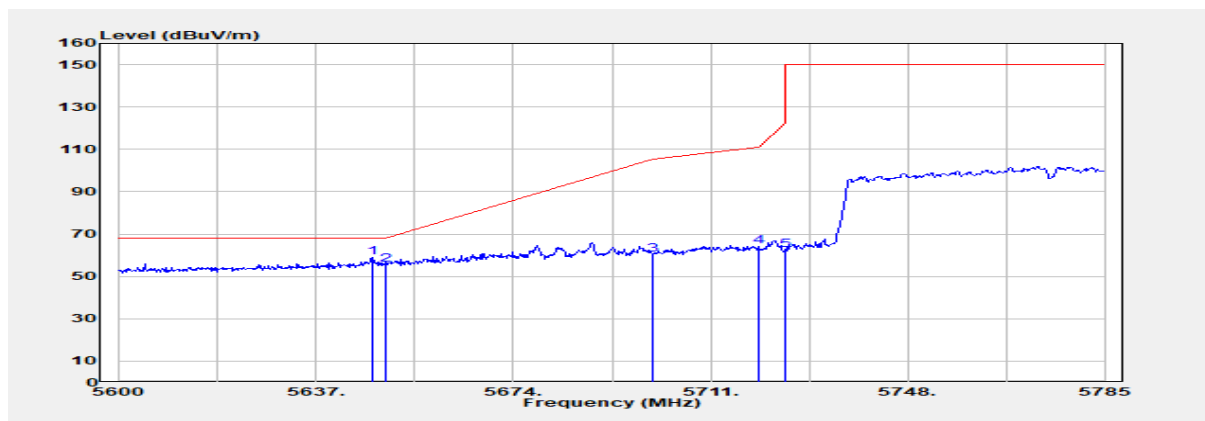
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :17

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5647.360	Peak	55.30	3.55	58.85	68.20	-9.35
5650.000	Peak	52.02	3.60	55.62	68.20	-12.58
5700.000	Peak	57.12	3.31	60.43	105.20	-44.77
5720.000	Peak	59.98	4.17	64.15	110.80	-46.65
5725.000	Peak	58.26	4.21	62.47	122.20	-59.73

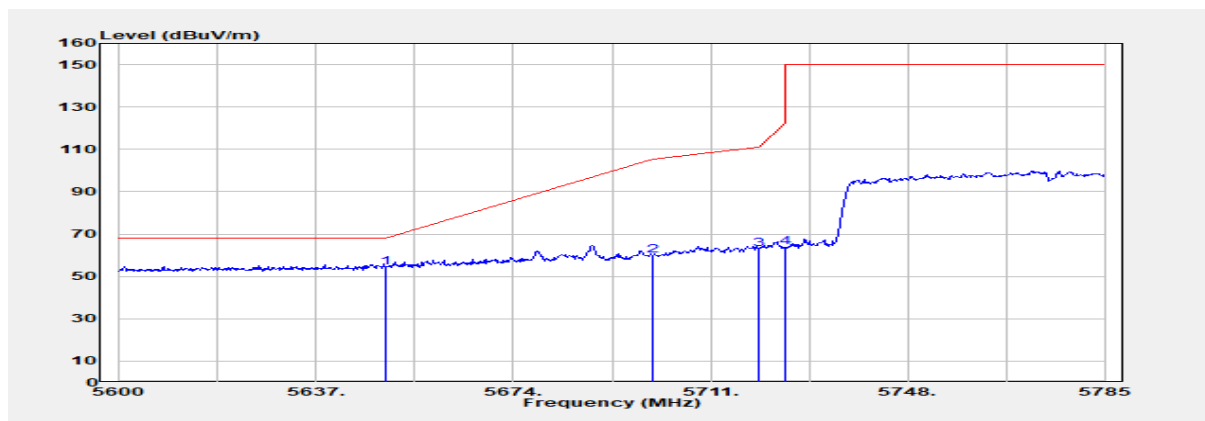
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :17

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5650.000	Peak	50.73	3.60	54.33	68.20	-13.87
5700.000	Peak	56.62	3.31	59.93	105.20	-45.27
5720.000	Peak	58.86	4.17	63.03	110.80	-47.77
5725.000	Peak	59.65	4.21	63.86	122.20	-58.34

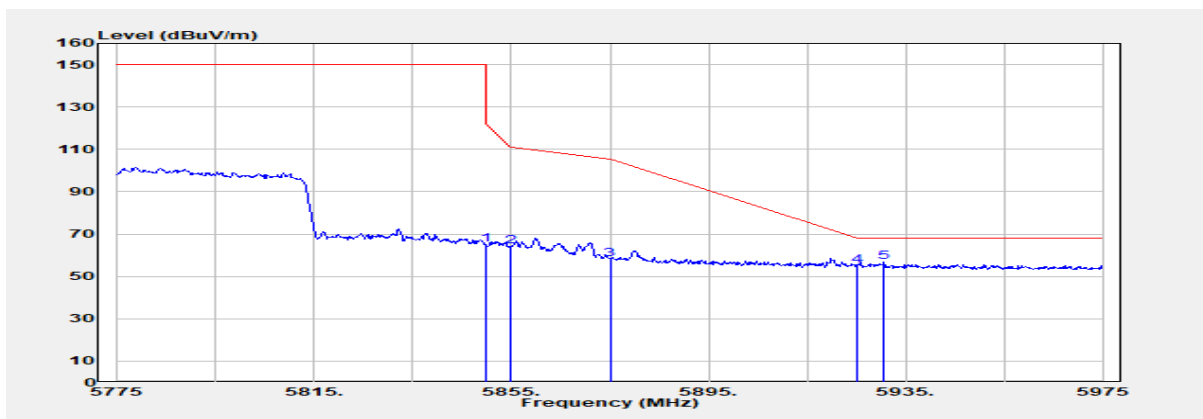
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :17

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5850.000	Peak	60.86	4.31	65.17	122.20	-57.03
5855.000	Peak	60.13	4.21	64.34	110.80	-46.46
5875.000	Peak	54.02	3.90	57.92	105.20	-47.28
5925.000	Peak	50.91	4.36	55.27	68.20	-12.93
5930.600	Peak	52.49	4.33	56.82	68.20	-11.38

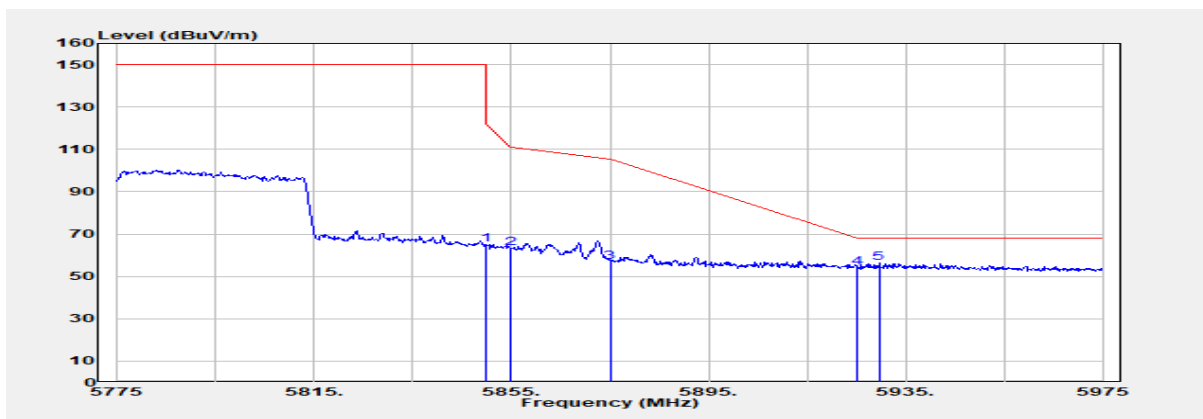
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Report Number :E2/2021/80020
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :17

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.2/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5850.000	Peak	60.77	4.31	65.08	122.20	-57.12
5855.000	Peak	59.04	4.21	63.25	110.80	-47.55
5875.000	Peak	52.94	3.90	56.84	105.20	-48.36
5925.000	Peak	49.73	4.36	54.09	68.20	-14.11
5929.600	Peak	51.89	4.34	56.23	68.20	-11.97

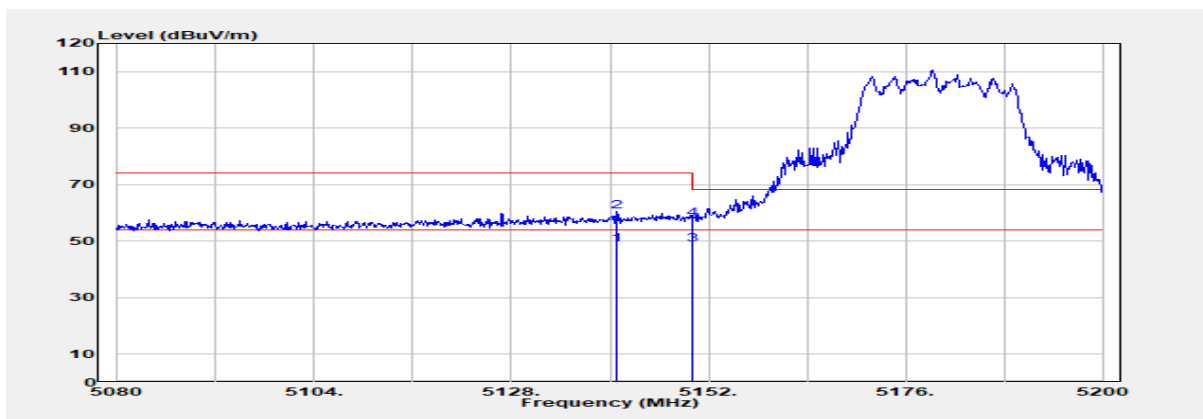
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :12.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.1/62
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5140.720	Average	45.95	2.81	48.75	54.00	-5.25
5140.720	Peak	57.71	2.81	60.51	74.00	-13.49
5150.000	Average	45.90	3.03	48.93	54.00	-5.07
5150.000	Peak	54.97	3.03	58.00	74.00	-16.00

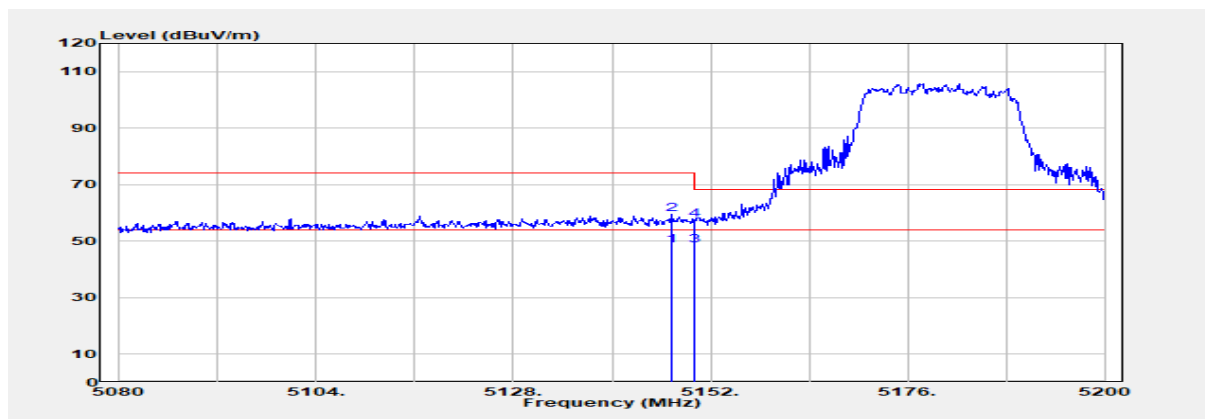
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :12.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.1/62
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5147.200	Average	45.47	2.96	48.43	54.00	-5.57
5147.200	Peak	56.40	2.96	59.36	74.00	-14.64
5150.000	Average	45.55	3.03	48.58	54.00	-5.42
5150.000	Peak	54.41	3.03	57.44	74.00	-16.56

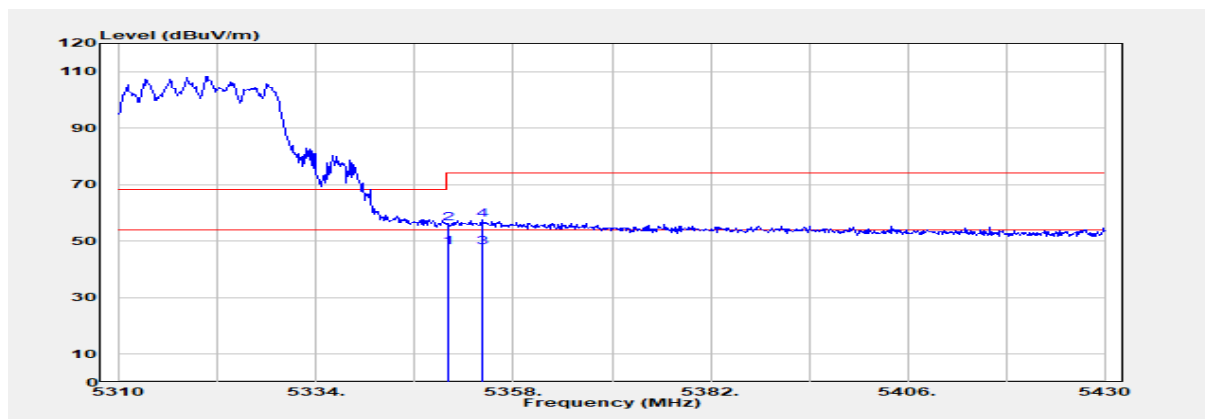
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	45.65	2.21	47.86	54.00	-6.14
5350.000	Peak	54.20	2.21	56.41	74.00	-17.59
5354.160	Average	45.57	2.21	47.78	54.00	-6.22
5354.160	Peak	55.51	2.21	57.72	74.00	-16.28

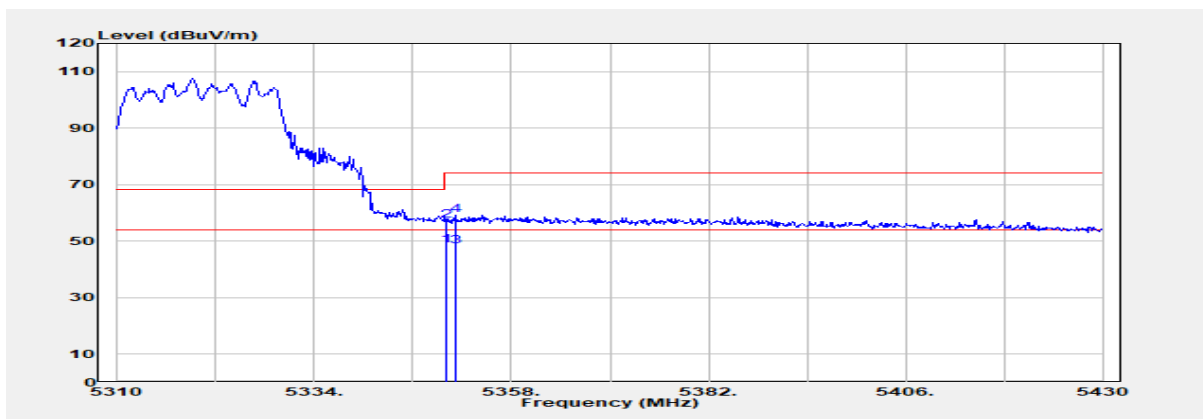
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	46.38	2.21	48.59	54.00	-5.41
5350.000	Peak	55.14	2.21	57.35	74.00	-16.65
5351.160	Average	46.04	2.21	48.25	54.00	-5.75
5351.160	Peak	57.13	2.21	59.34	74.00	-14.66

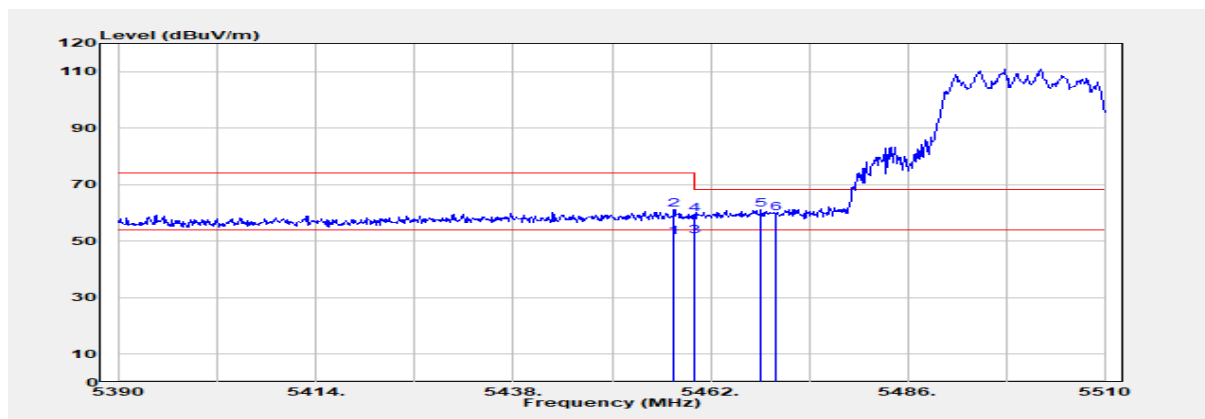
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.560	Average	48.81	2.63	51.44	54.00	-2.56
5457.560	Peak	58.58	2.63	61.21	74.00	-12.79
5460.000	Average	49.15	2.64	51.79	54.00	-2.21
5460.000	Peak	56.84	2.64	59.48	74.00	-14.52
5468.120	Peak	58.42	2.75	61.17	68.20	-7.03
5470.000	Peak	57.01	2.77	59.78	68.20	-8.42

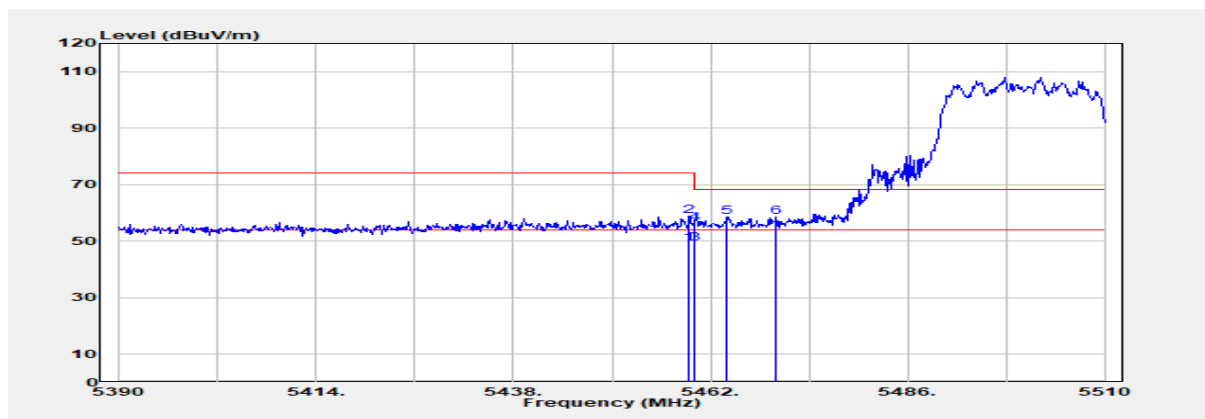
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5459.360	Average	46.50	2.64	49.14	54.00	-4.86
5459.360	Peak	56.35	2.64	58.99	74.00	-15.01
5460.000	Average	46.50	2.64	49.14	54.00	-4.86
5460.000	Peak	53.56	2.64	56.20	74.00	-17.80
5464.040	Peak	55.82	2.69	58.51	68.20	-9.69
5470.000	Peak	55.66	2.77	58.43	68.20	-9.77

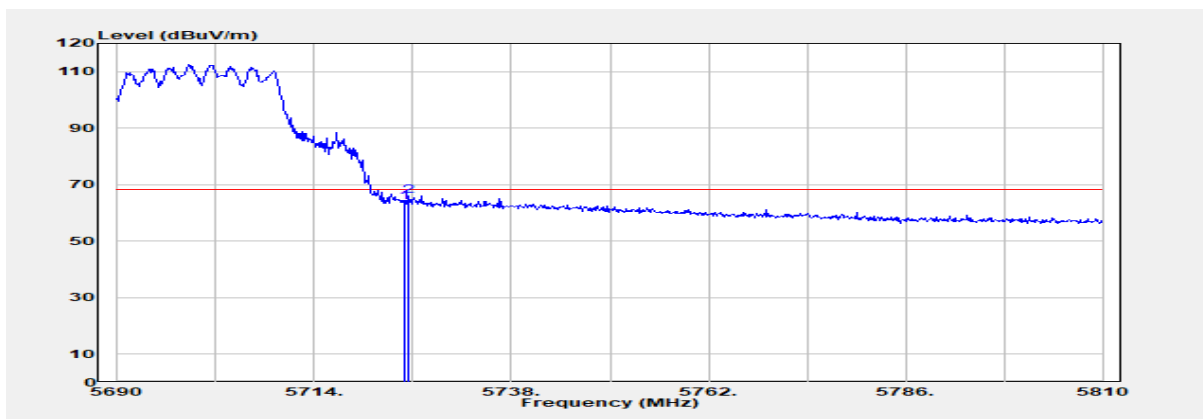
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.9/64
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5725.000	Peak	59.45	4.21	63.66	68.20	-4.54
5725.400	Peak	61.75	4.21	65.97	68.20	-2.23

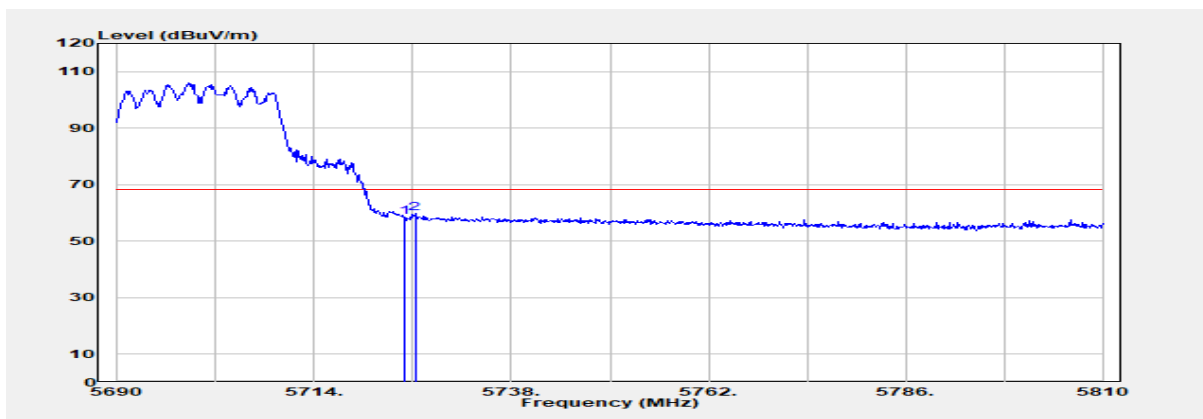
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :25.9/64
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5725.000	Peak	54.39	4.21	58.60	68.20	-9.60
5726.240	Peak	55.70	4.22	59.92	68.20	-8.28

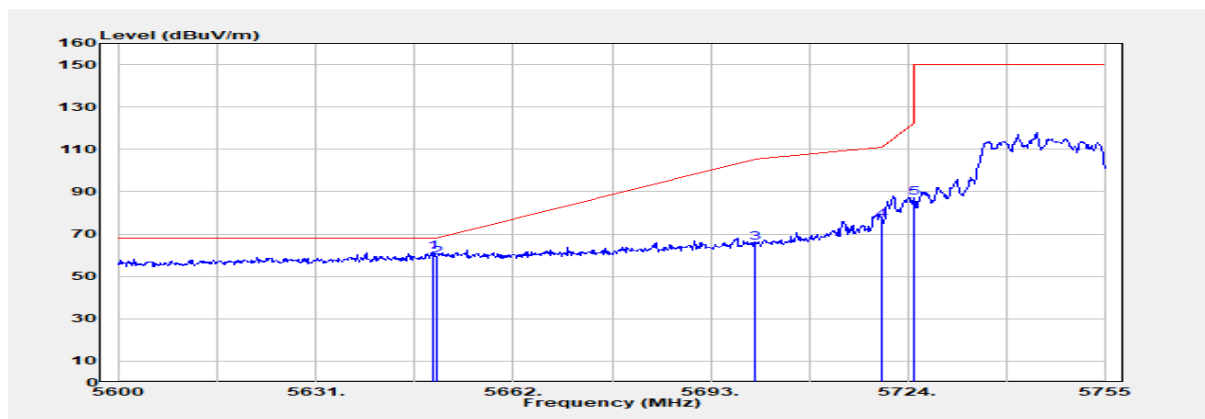
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :19.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :22.6/66
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5649.290	Peak	57.80	3.59	61.38	68.20	-6.82
5650.000	Peak	55.47	3.60	59.07	68.20	-9.13
5700.000	Peak	62.52	3.31	65.83	105.20	-39.37
5720.000	Peak	72.69	4.17	76.86	110.80	-33.94
5725.000	Peak	83.05	4.21	87.26	122.20	-34.94

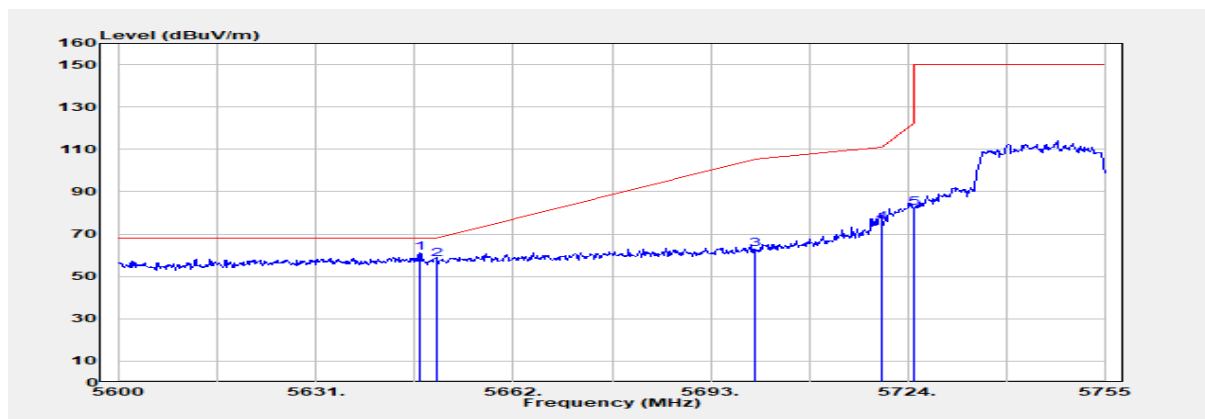
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :19.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :22.6/66
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5647.275	Peak	57.40	3.55	60.95	68.20	-7.25
5650.000	Peak	54.34	3.60	57.94	68.20	-10.26
5700.000	Peak	59.64	3.31	62.95	105.20	-42.25
5720.000	Peak	71.49	4.17	75.66	110.80	-35.14
5725.000	Peak	78.39	4.21	82.60	122.20	-39.60

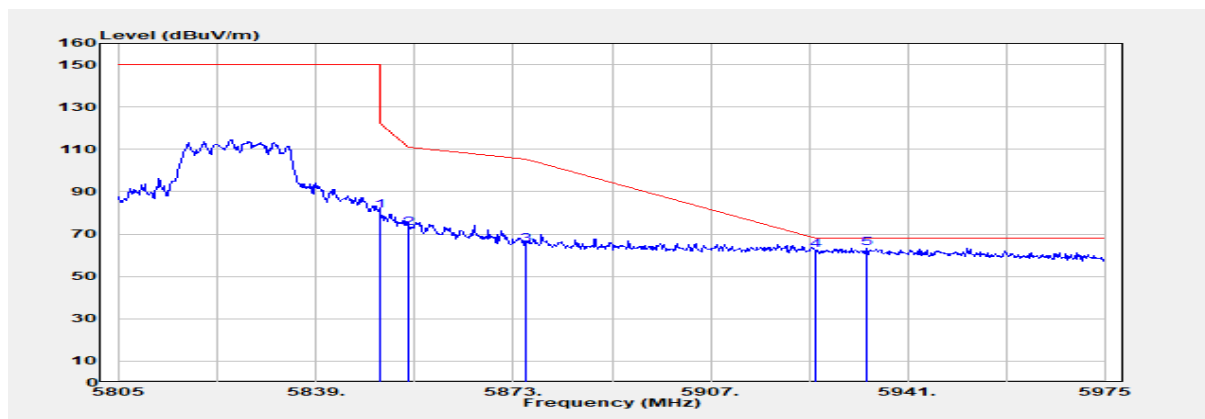
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :20.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :22.6/66
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5850.000	Peak	76.84	4.31	81.15	122.20	-41.05
5855.000	Peak	68.57	4.21	72.78	110.80	-38.02
5875.000	Peak	60.96	3.90	64.86	105.20	-40.34
5925.000	Peak	57.89	4.36	62.24	68.20	-5.96
5933.860	Peak	59.15	4.26	63.41	68.20	-4.79

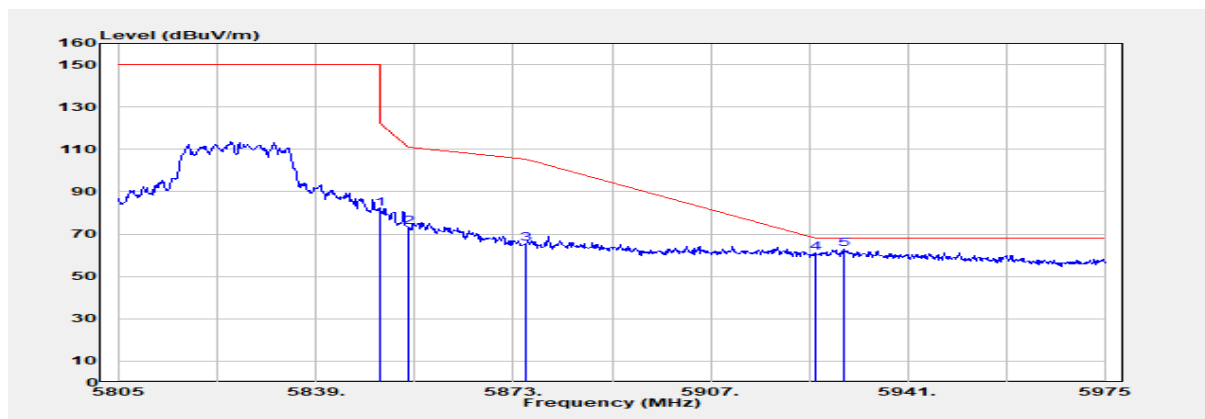
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Report Number :E2/2021/80020
 Operation Mode :802.11ax20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :20.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :22.6/66
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5850.000	Peak	77.73	4.31	82.04	122.20	-40.16
5855.000	Peak	69.03	4.21	73.24	110.80	-37.56
5875.000	Peak	61.38	3.90	65.28	105.20	-39.92
5925.000	Peak	56.73	4.36	61.09	68.20	-7.11
5929.950	Peak	58.38	4.34	62.72	68.20	-5.48

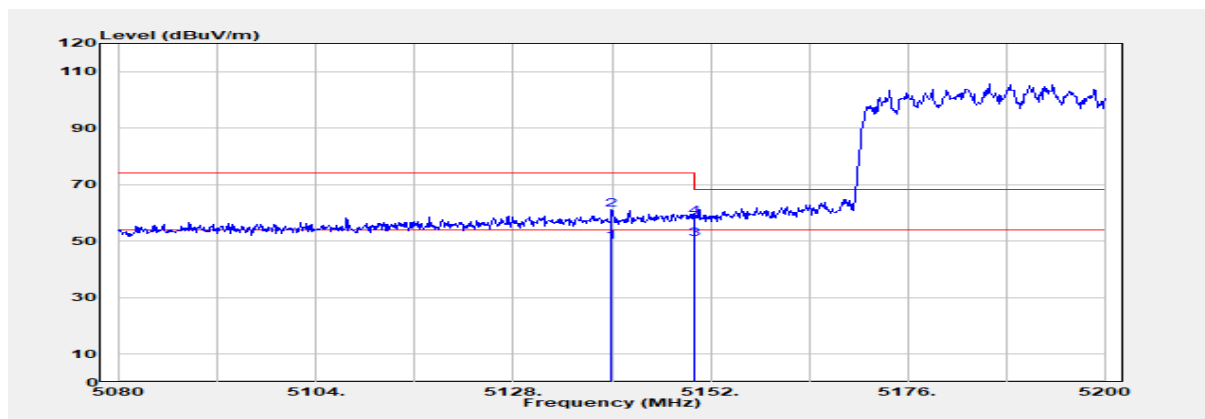
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5140.000	Average	46.98	2.79	49.77	54.00	-4.23
5140.000	Peak	58.29	2.79	61.08	74.00	-12.92
5150.000	Average	47.54	3.03	50.57	54.00	-3.43
5150.000	Peak	55.66	3.03	58.69	74.00	-15.31

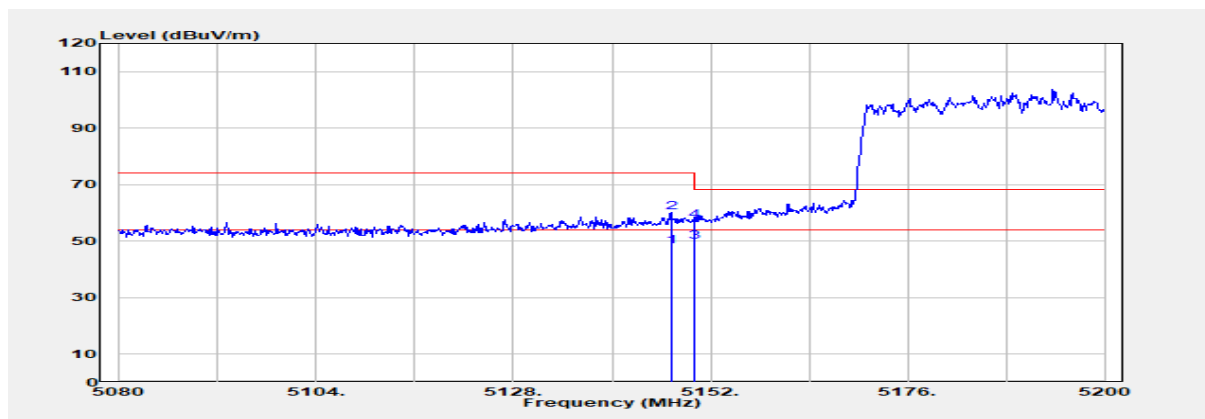
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5147.200	Average	45.20	2.96	48.16	54.00	-5.84
5147.200	Peak	57.08	2.96	60.04	74.00	-13.96
5150.000	Average	46.80	3.03	49.83	54.00	-4.17
5150.000	Peak	54.36	3.03	57.39	74.00	-16.61

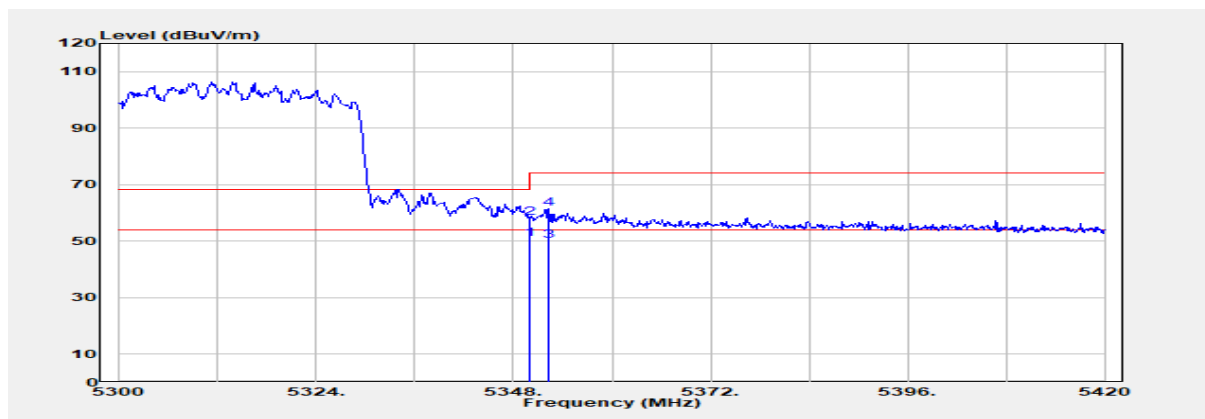
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	48.63	2.21	50.84	54.00	-3.16
5350.000	Peak	56.13	2.21	58.34	74.00	-15.66
5352.320	Average	47.97	2.21	50.18	54.00	-3.82
5352.320	Peak	59.32	2.21	61.53	74.00	-12.47

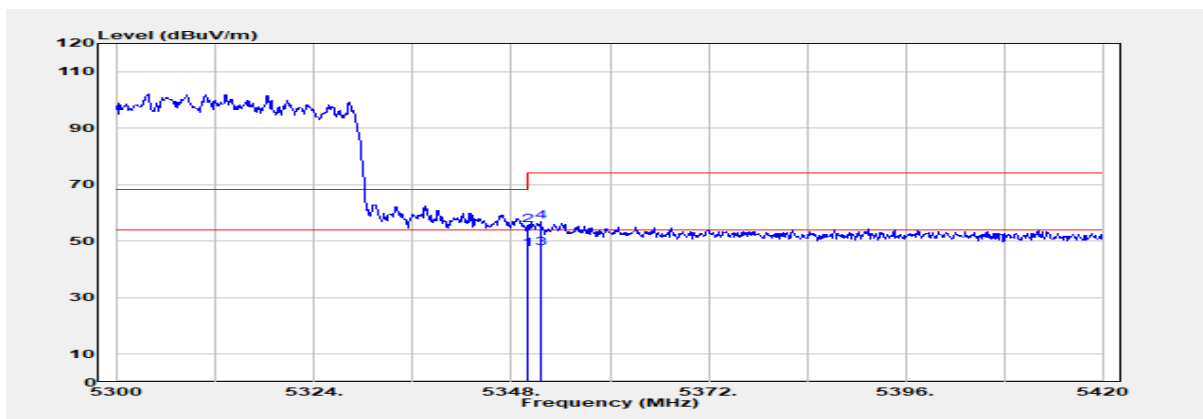
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	44.88	2.21	47.09	54.00	-6.92
5350.000	Peak	53.35	2.21	55.56	74.00	-18.44
5351.480	Average	45.16	2.21	47.37	54.00	-6.63
5351.480	Peak	54.77	2.21	56.98	74.00	-17.02

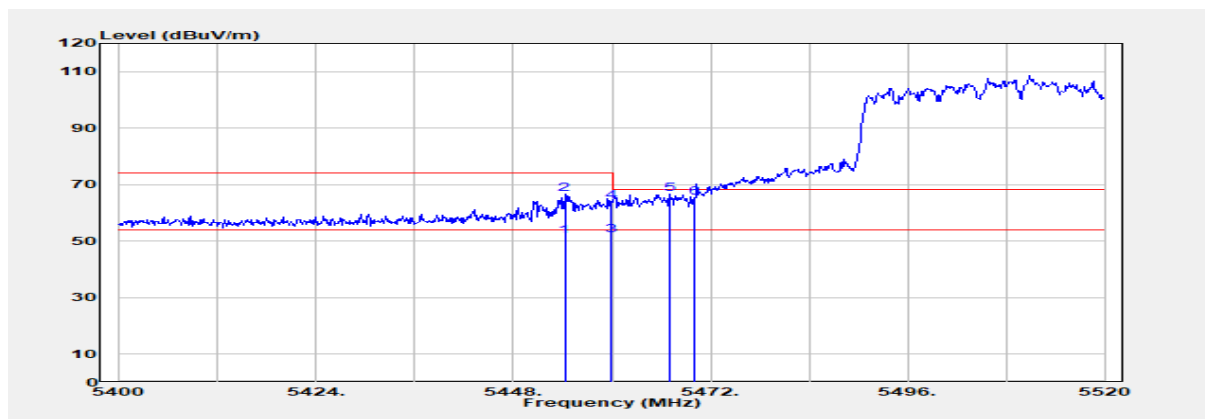
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5454.240	Average	49.07	2.62	51.69	54.00	-2.31
5454.240	Peak	63.95	2.62	66.57	74.00	-7.43
5460.000	Average	49.23	2.64	51.87	54.00	-2.13
5460.000	Peak	61.31	2.64	63.95	74.00	-10.05
5466.960	Peak	64.05	2.73	66.78	68.20	-1.42
5470.000	Peak	62.66	2.77	65.43	68.20	-2.77

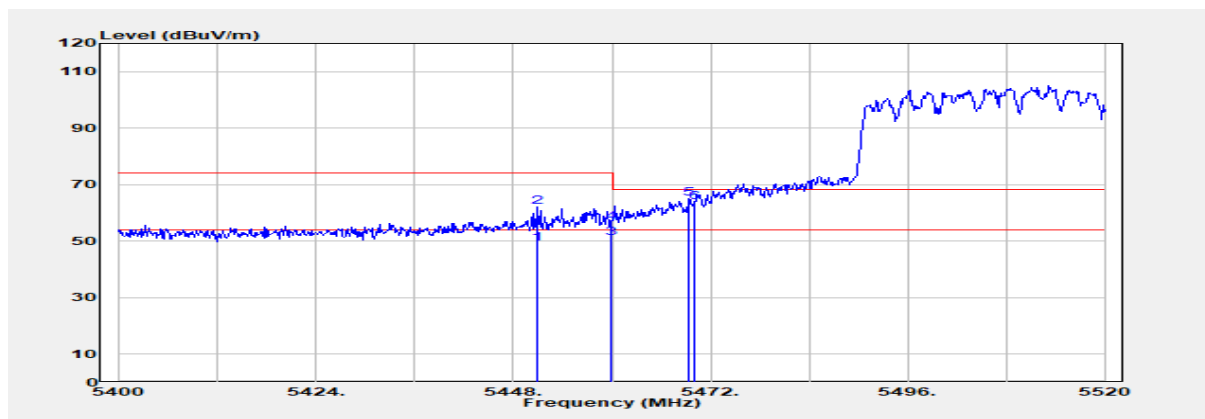
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :14

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5451.000	Average	46.47	2.60	49.08	54.00	-4.92
5451.000	Peak	59.36	2.60	61.96	74.00	-12.04
5460.000	Average	48.30	2.64	50.94	54.00	-3.06
5460.000	Peak	54.05	2.64	56.69	74.00	-17.31
5469.360	Peak	62.38	2.76	65.15	68.20	-3.05
5470.000	Peak	61.01	2.77	63.78	68.20	-4.42

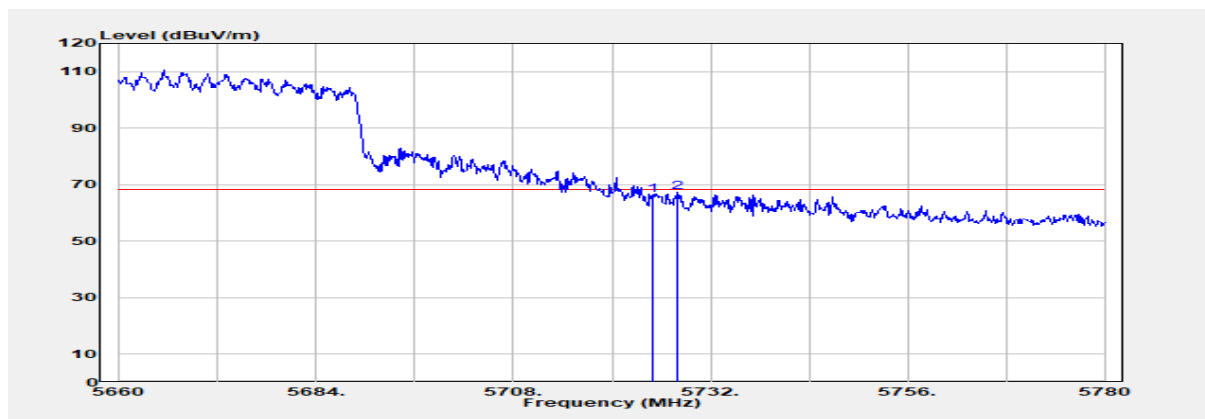
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :19

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.3/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5725.000	Peak	61.98	4.21	66.19	68.20	-2.01
5728.040	Peak	63.06	4.23	67.30	68.20	-0.90

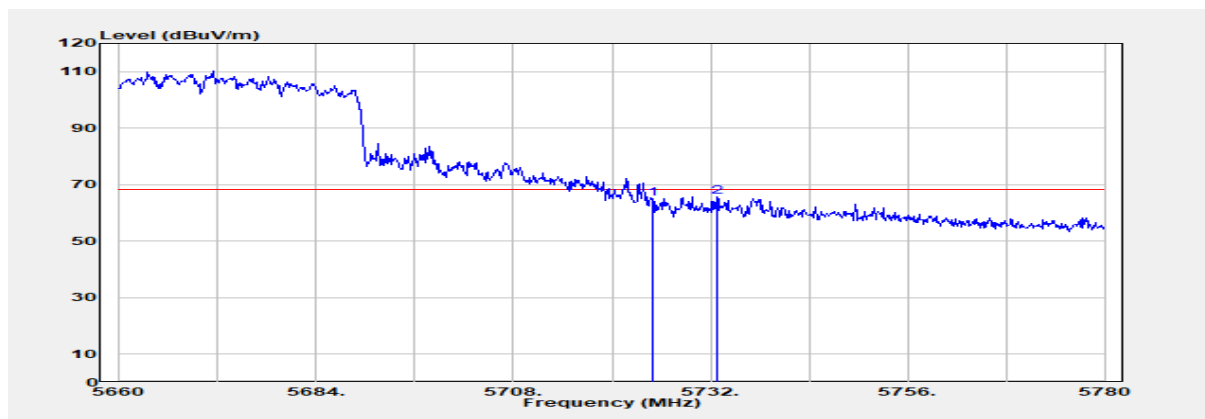
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :19

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5725.000	Peak	60.94	4.21	65.15	68.20	-3.05
5732.720	Peak	61.45	4.27	65.73	68.20	-2.47

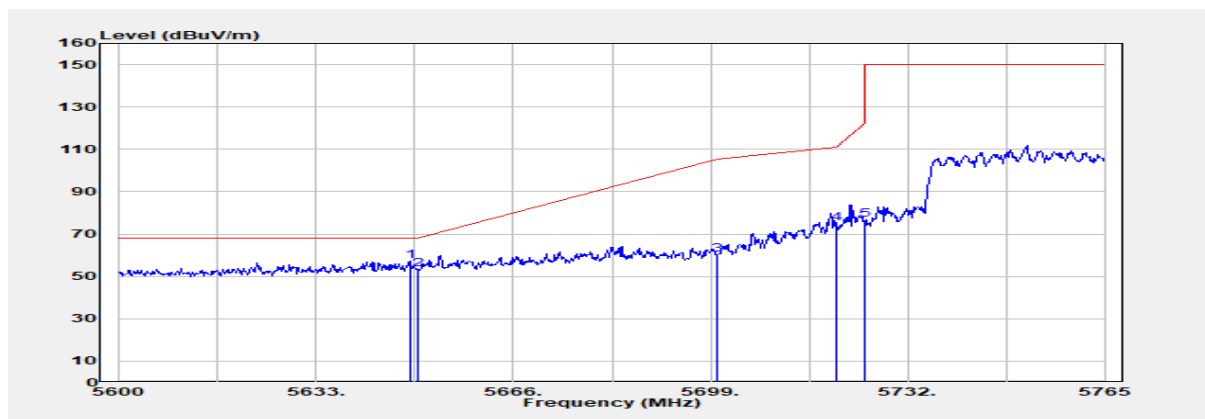
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :19

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.3/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5648.675	Peak	53.58	3.57	57.15	68.20	-11.05
5650.000	Peak	49.60	3.60	53.20	68.20	-15.00
5700.000	Peak	56.82	3.31	60.13	105.20	-45.07
5720.000	Peak	71.01	4.17	75.18	110.80	-35.62
5725.000	Peak	72.56	4.21	76.77	122.20	-45.43

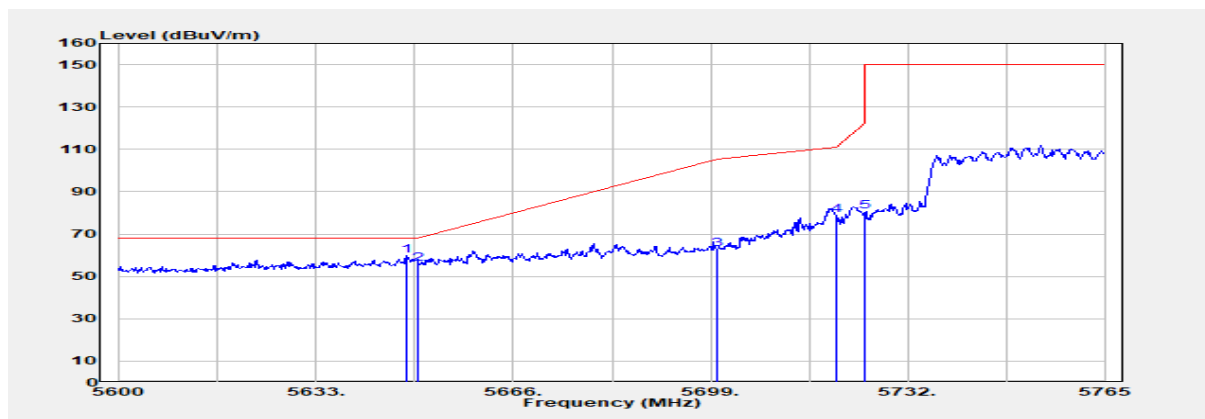
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :19

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5648.015	Peak	56.22	3.56	59.78	68.20	-8.42
5650.000	Peak	52.26	3.60	55.86	68.20	-12.34
5700.000	Peak	59.36	3.31	62.67	105.20	-42.53
5720.000	Peak	74.68	4.17	78.85	110.80	-31.95
5725.000	Peak	76.35	4.21	80.56	122.20	-41.64

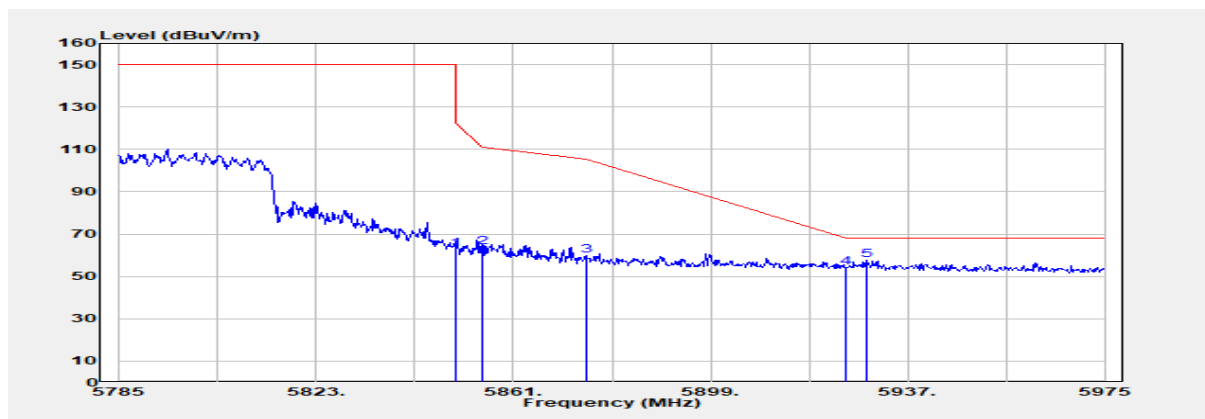
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :19

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.3/61
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5850.000	Peak	58.73	4.31	63.04	122.20	-59.16
5855.000	Peak	59.39	4.21	63.60	110.80	-47.20
5875.000	Peak	55.77	3.90	59.67	105.20	-45.53
5925.000	Peak	49.76	4.36	54.12	68.20	-14.08
5929.210	Peak	53.16	4.34	57.50	68.20	-10.70

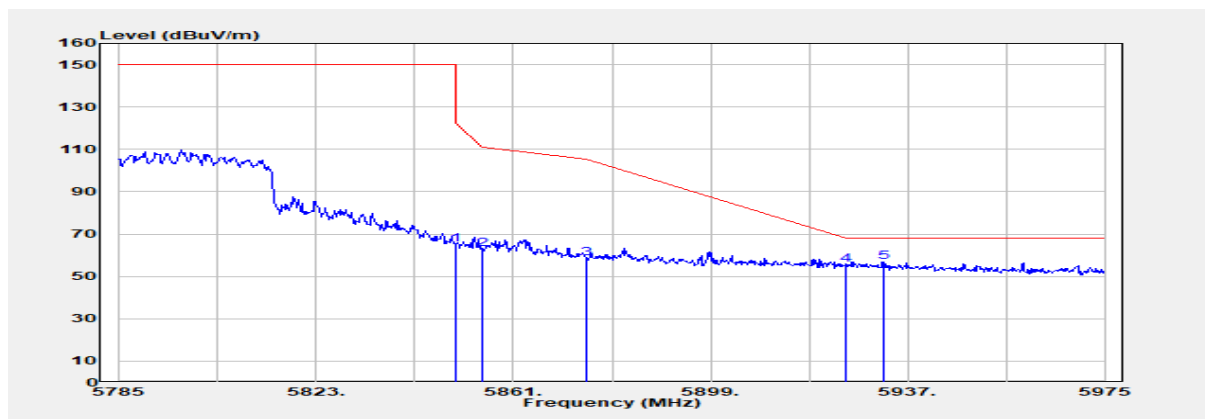
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :19

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5850.000	Peak	60.86	4.31	65.17	122.20	-57.03
5855.000	Peak	58.47	4.21	62.68	110.80	-48.12
5875.000	Peak	54.61	3.90	58.51	105.20	-46.69
5925.000	Peak	51.18	4.36	55.54	68.20	-12.66
5932.250	Peak	52.60	4.29	56.89	68.20	-11.31

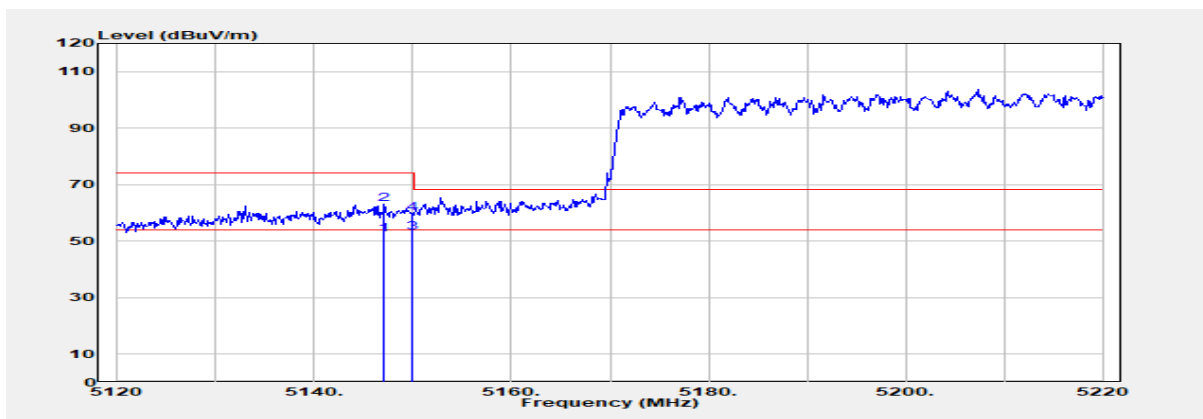
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5147.100	Average	49.37	2.96	52.33	54.00	-1.67
5147.100	Peak	60.05	2.96	63.01	74.00	-10.99
5150.000	Average	49.94	3.03	52.97	54.00	-1.03
5150.000	Peak	56.85	3.03	59.88	74.00	-14.12

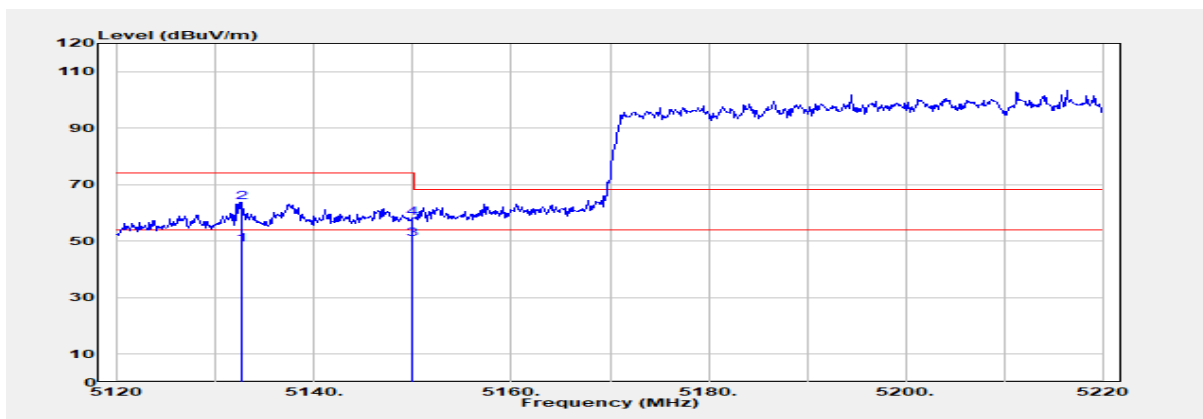
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :16

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



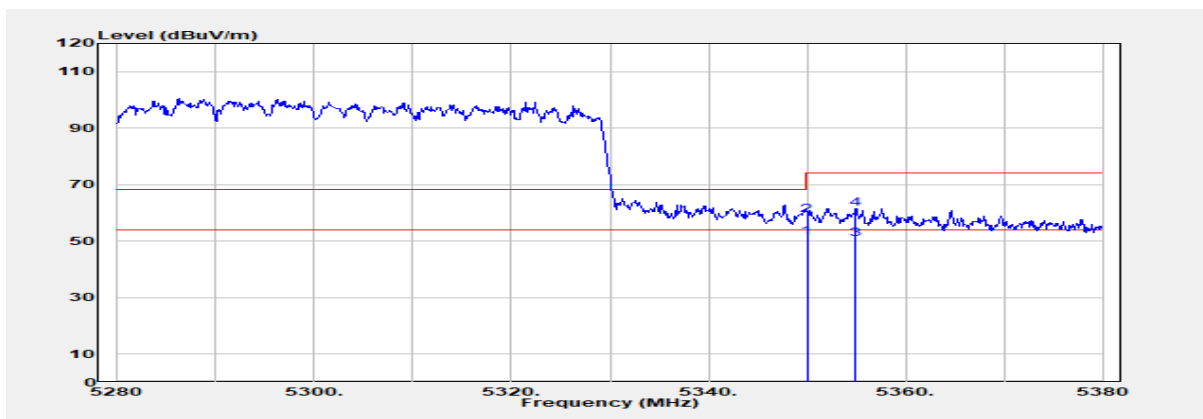
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5132.600	Average	45.99	2.72	48.70	54.00	-5.30
5132.600	Peak	60.92	2.72	63.64	74.00	-10.36
5150.000	Average	47.59	3.03	50.62	54.00	-3.38
5150.000	Peak	55.19	3.03	58.22	74.00	-15.78

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Report Number	:E2/2021/80020	Test Site	:SAC G
Operation Mode	:802.11ax40 / Band 2	Test Date	:2021-08-20
Test Frequency	:5290 MHz	Temp./Humi.	:24.8/61
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu
Setting	:13.5		



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	49.11	2.21	51.32	54.00	-2.68
5350.000	Peak	56.94	2.21	59.15	74.00	-14.85
5354.900	Average	48.55	2.21	50.77	54.00	-3.23
5354.900	Peak	59.38	2.21	61.59	74.00	-12.41

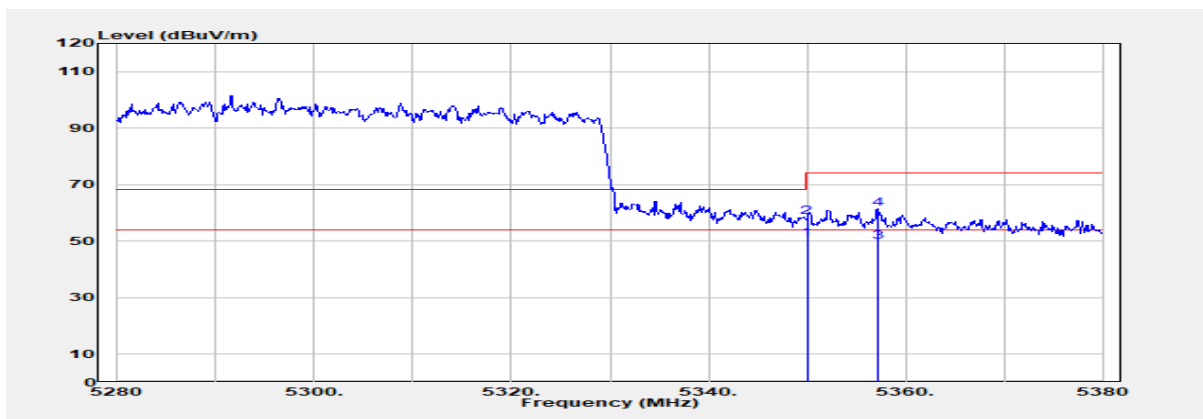
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Report Number :E2/2021/80020
 Operation Mode :802.11ax40 / Band 2
 Test Frequency :5290 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.8/61
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	48.48	2.21	50.69	54.00	-3.31
5350.000	Peak	56.45	2.21	58.66	74.00	-15.34
5357.200	Average	47.50	2.22	49.71	54.00	-4.29
5357.200	Peak	59.12	2.22	61.33	74.00	-12.67

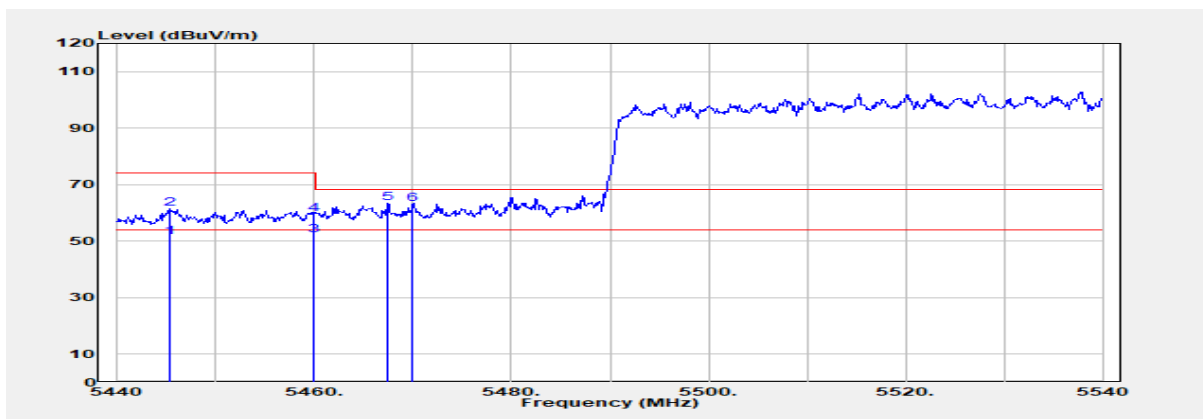
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5445.400	Average	48.82	2.47	51.28	54.00	-2.72
5445.400	Peak	59.09	2.47	61.56	74.00	-12.44
5460.000	Average	49.25	2.64	51.89	54.00	-2.11
5460.000	Peak	56.90	2.64	59.54	74.00	-14.46
5467.500	Peak	60.54	2.74	63.28	68.20	-4.92
5470.000	Peak	60.18	2.77	62.95	68.20	-5.25

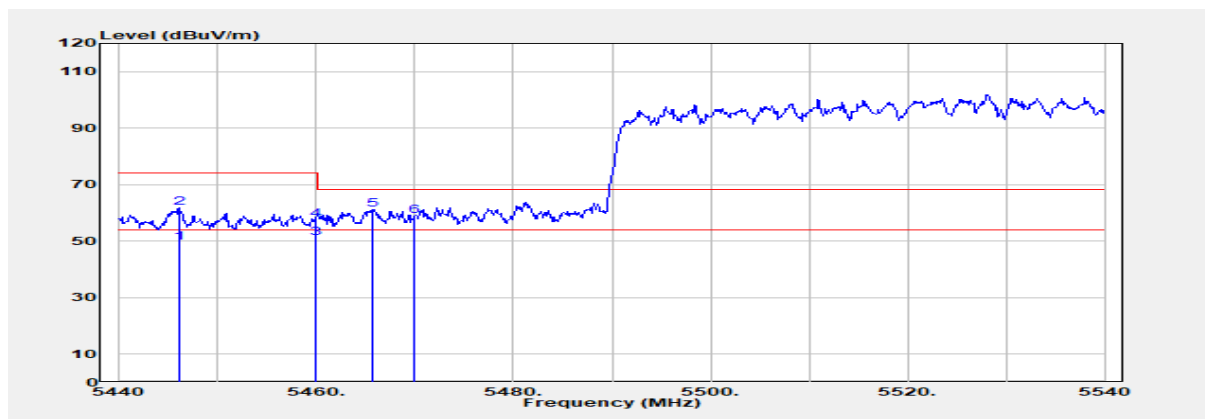
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :13.5

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5446.000	Average	47.00	2.48	49.48	54.00	-4.52
5446.000	Peak	59.24	2.48	61.72	74.00	-12.28
5460.000	Average	48.31	2.64	50.95	54.00	-3.05
5460.000	Peak	54.90	2.64	57.54	74.00	-16.46
5465.600	Peak	58.32	2.71	61.04	68.20	-7.16
5470.000	Peak	56.11	2.77	58.88	68.20	-9.32

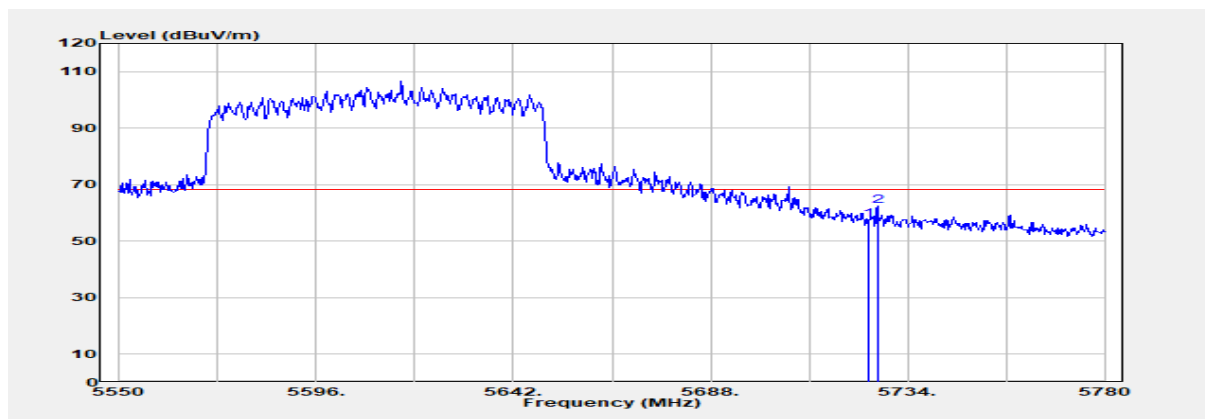
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 3
 Test Frequency :5610 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane
 Setting :18

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.5/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5725.000	Peak	53.41	4.21	57.62	68.20	-10.58
5727.100	Peak	58.07	4.23	62.30	68.20	-5.90

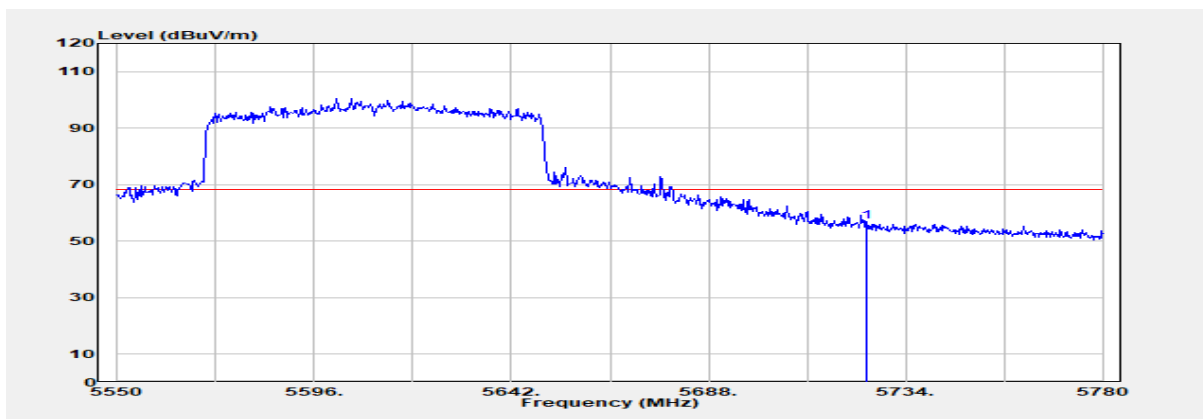
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 3
 Test Frequency :5610 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane
 Setting :18

Test Site :SAC G
 Test Date :2021-08-20
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5725.000	Peak	52.56	4.21	56.77	68.20	-11.43

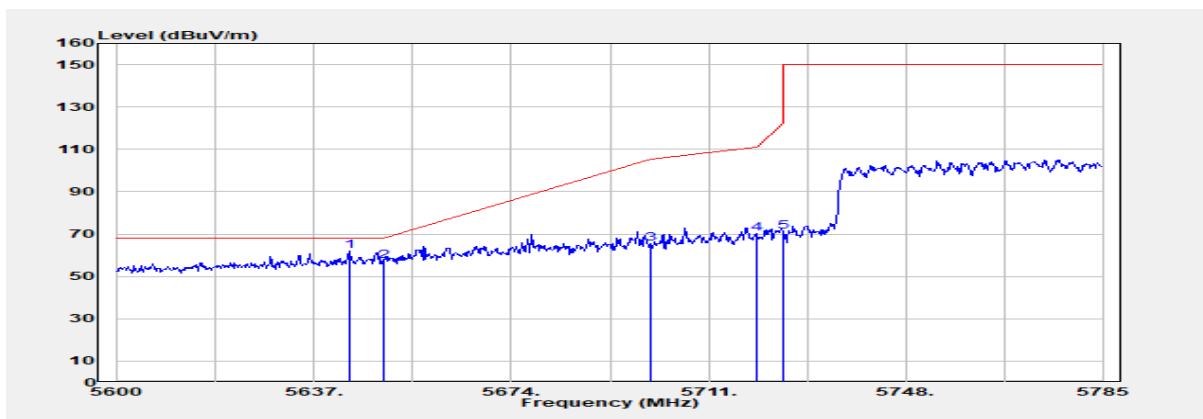
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :18.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.5/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5643.475	Peak	58.32	3.48	61.79	68.20	-6.41
5650.000	Peak	53.72	3.60	57.32	68.20	-10.88
5700.000	Peak	62.25	3.31	65.56	105.20	-39.64
5720.000	Peak	66.18	4.17	70.35	110.80	-40.45
5725.000	Peak	66.94	4.21	71.15	122.20	-51.05

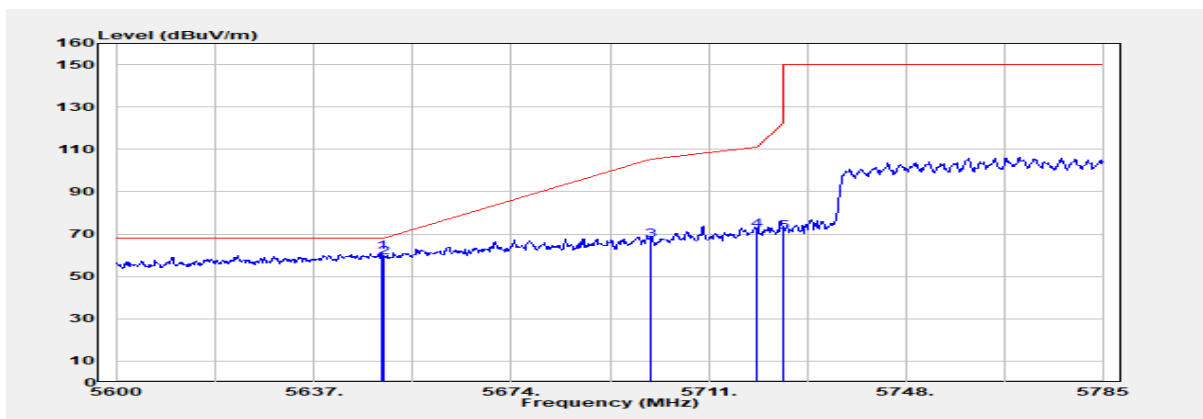
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Setting :18.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5649.580	Peak	58.07	3.59	61.66	68.20	-6.54
5650.000	Peak	55.17	3.60	58.77	68.20	-9.43
5700.000	Peak	63.93	3.31	67.24	105.20	-37.96
5720.000	Peak	67.98	4.17	72.15	110.80	-38.65
5725.000	Peak	66.75	4.21	70.96	122.20	-51.24

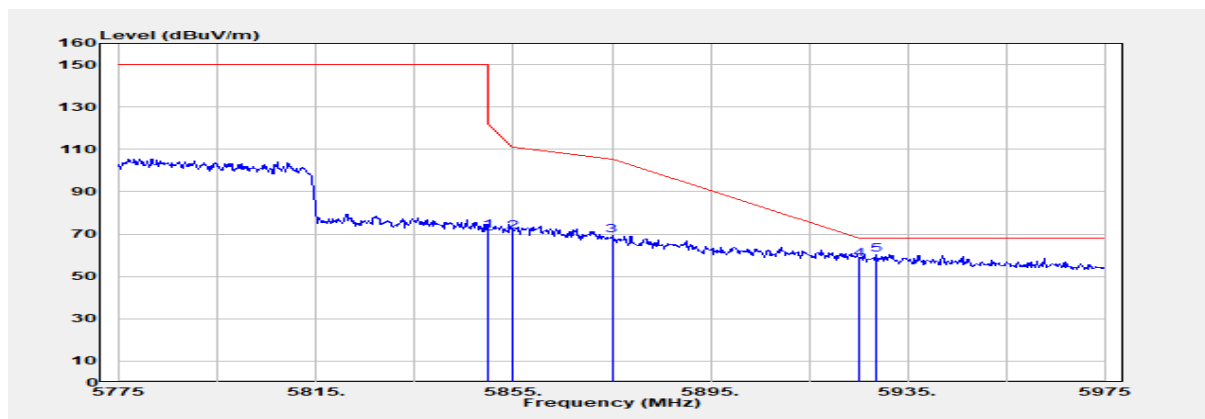
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :18.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.5/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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
5850.000	Peak	67.22	4.31	71.53	122.20	-50.67
5855.000	Peak	67.06	4.21	71.27	110.80	-39.53
5875.000	Peak	65.41	3.90	69.31	105.20	-35.89
5925.000	Peak	53.96	4.36	58.31	68.20	-9.89
5928.600	Peak	55.91	4.34	60.25	68.20	-7.95

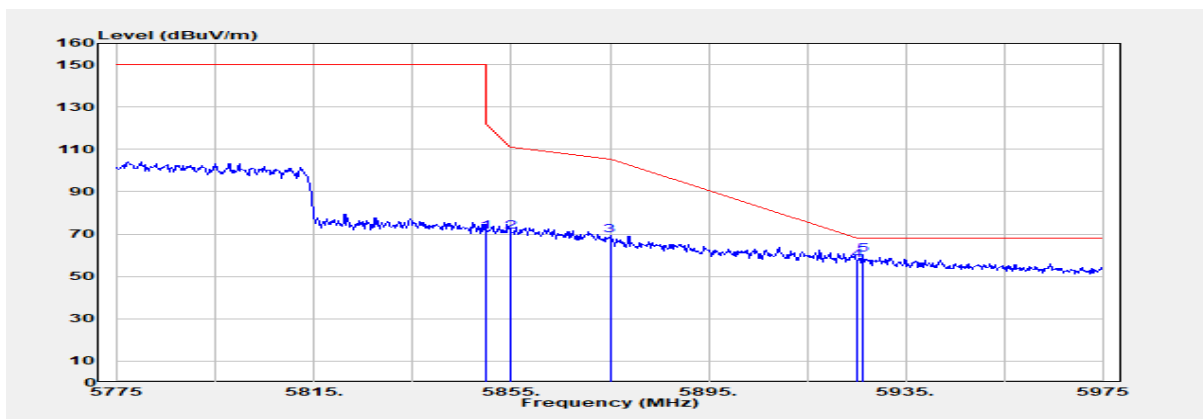
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Report Number :E2/2021/80020
 Operation Mode :802.11ax80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Setting :18.5

Test Site :SAC G
 Test Date :2021-08-23
 Temp./Humi. :24.5/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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
5850.000	Peak	66.95	4.31	71.26	122.20	-50.94
5855.000	Peak	66.73	4.21	70.94	110.80	-39.86
5875.000	Peak	65.41	3.90	69.31	105.20	-35.89
5925.000	Peak	53.45	4.36	57.80	68.20	-10.40
5926.200	Peak	55.77	4.35	60.13	68.20	-8.07

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8 TRANSMISSION IN THE ABSENCE OF DATA

8.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

8.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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9 ANTENNA REQUIREMENT

9.1 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.

9.2 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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